PROPOSED

# 777 PROPERTIES - PHASE 1

777 SOUTH STATE ROAD 7 MARGATE, FLORIDA 33312

## DEVELOPMENT TEAM:

OWNER & DEVELOPER:

777 Properties, Inc. Margate, Florida 33068 (954) 390-7777

CIVIL ENGINEER/SURVEYOR:

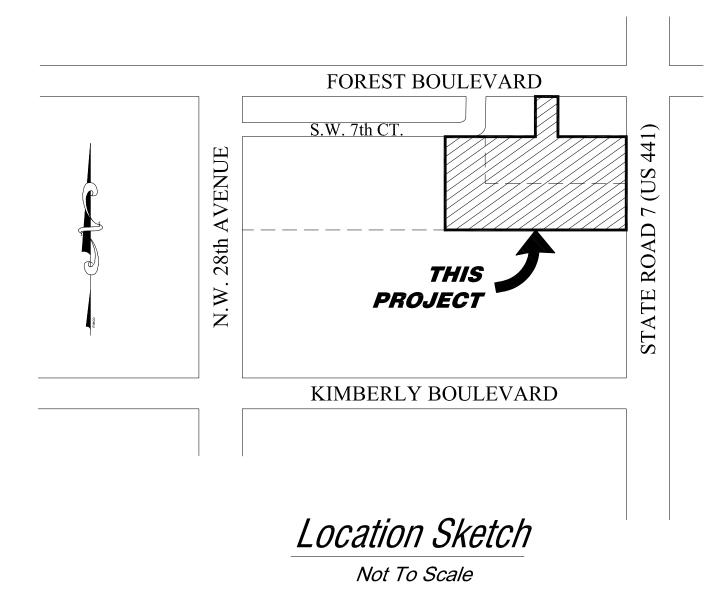
McLaughlin Engineering Compai

McLaughlin Engineering Company 1700 N.W. 64th Street, Suite 400 Fort Lauderdale, Florida 33309-1801 (954) 763-7611



LANDSCAPE ARCHITECT:

Landscape Architect Consultants, Inc. 5215 West Broward Boulevard Plantation, Florida 33317-2635 (954) 581-1110



#### Legal Description

Parcel "A", 441 SOUTH LTD. II, according to the Plat thereof, as recorded in Plat Book 124, at Page 41, of the Public Records of Broward County, Florida.

TOGETHER WITH the East 265 feet of Parcel "A", THE FOREST, according to the Plat thereof, as recorded in Plat Book 129, at Page 16, of the Public Records of Broward County, Florida

AND TOGETHER WITH Parcel "B", MINI MART DEVELOPMENT CORP. SUBDIVISION, according to the Plat thereof, as recorded in Plat Book 81, at Page 49, of the Public Records of Broward County, Florida.

Said lands situate lying and being in the City of Margate, Broward County, Florida, and containing 869,681 square feet or 19.9651 acres, more or less.

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CS COVER SHEET

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MCP MASTER CIVIL PLAN

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IR-2 IRRIGATION NOTES & DETAILS
SURVEY ALTA/NSPS LAND TITLE SURVEY

MCLAUGHLIN ENGINEERING COMPAN
1700 N.W. 64th STREET, SUITE 400, FORT LAUDERDALE, FLORID
PHONE: (954) 763-7611
FAX: (954) 763-7615

Lou Campanile, Jr. Professional Engineer No. Professional Surveyor and Mapp

777 PROPERTIES, INC

for

ERTIES - PHASE 1 OF MARGATE, O COUNTY, FLORIDA

777 PROPERT CITY OF N BROWARD COL

PROJECT NO. V3243

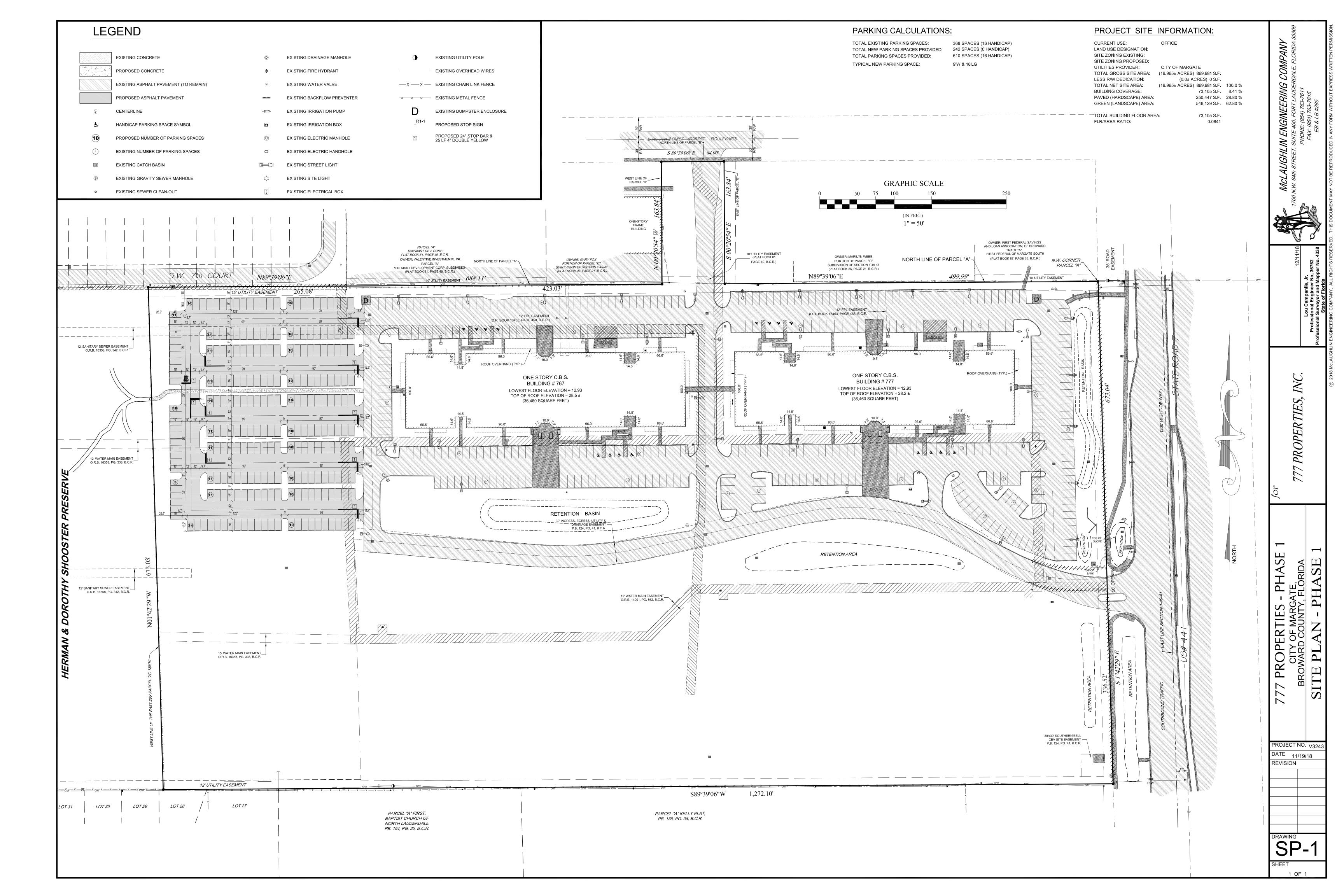
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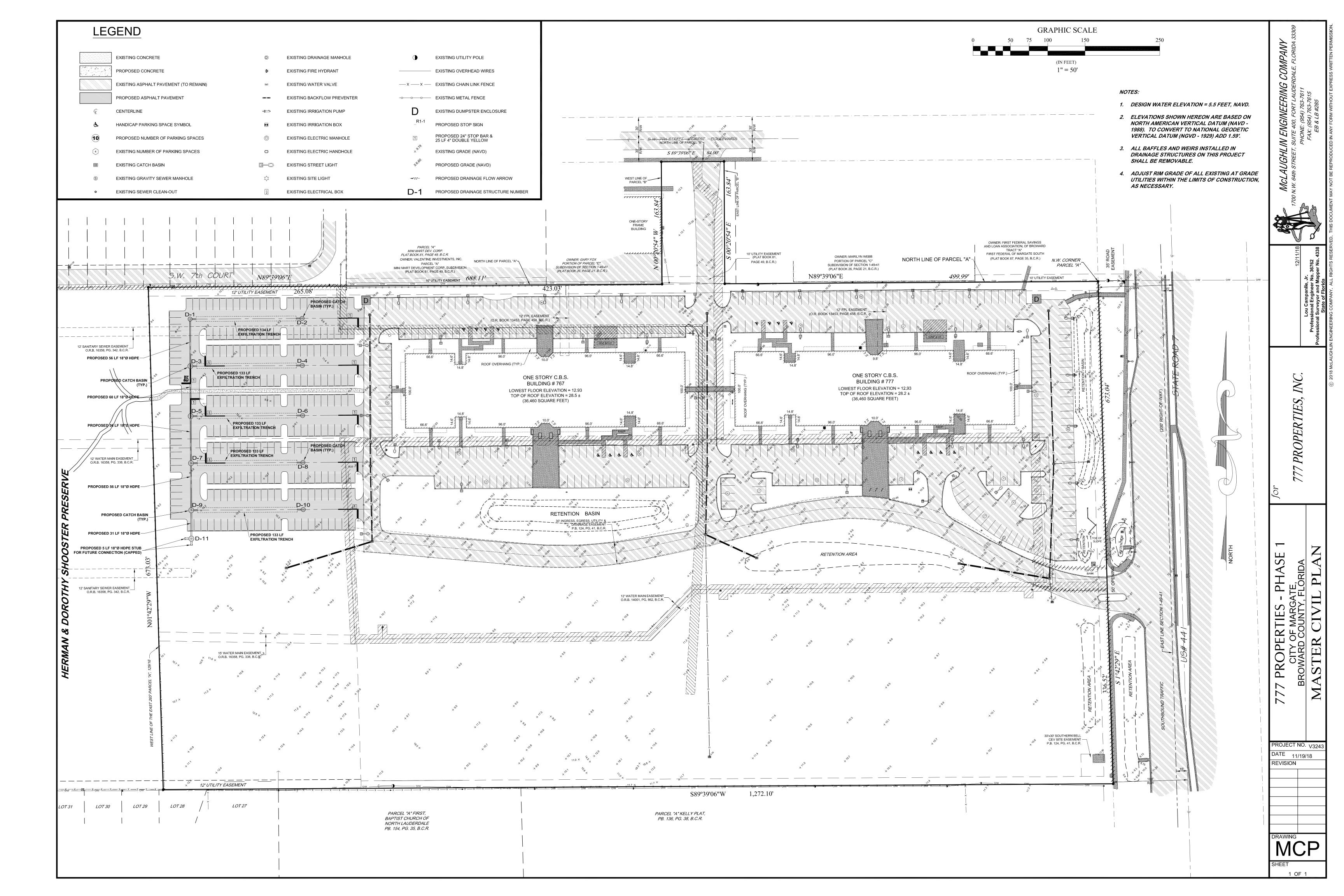
REVISION

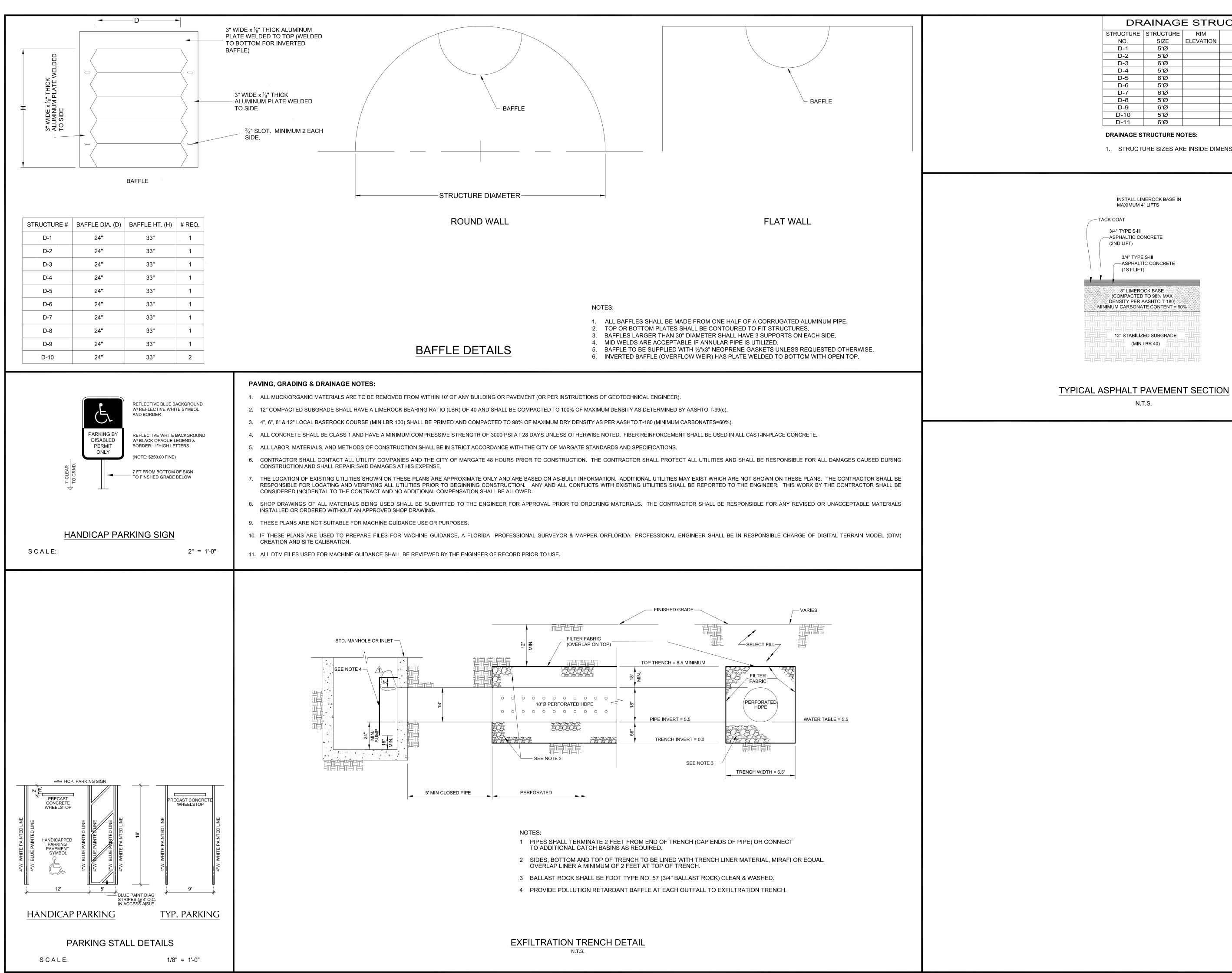
12/11/18

DRAWING SP-1

HEET 1 OF 1







DRAINAGE STRUCTURE SCHEDULE BAFFLES ELEVATION **ELEVATIONS** E&S

1. STRUCTURE SIZES ARE INSIDE DIMENSIONS (E.G. 5'Ø OR 6'x10').

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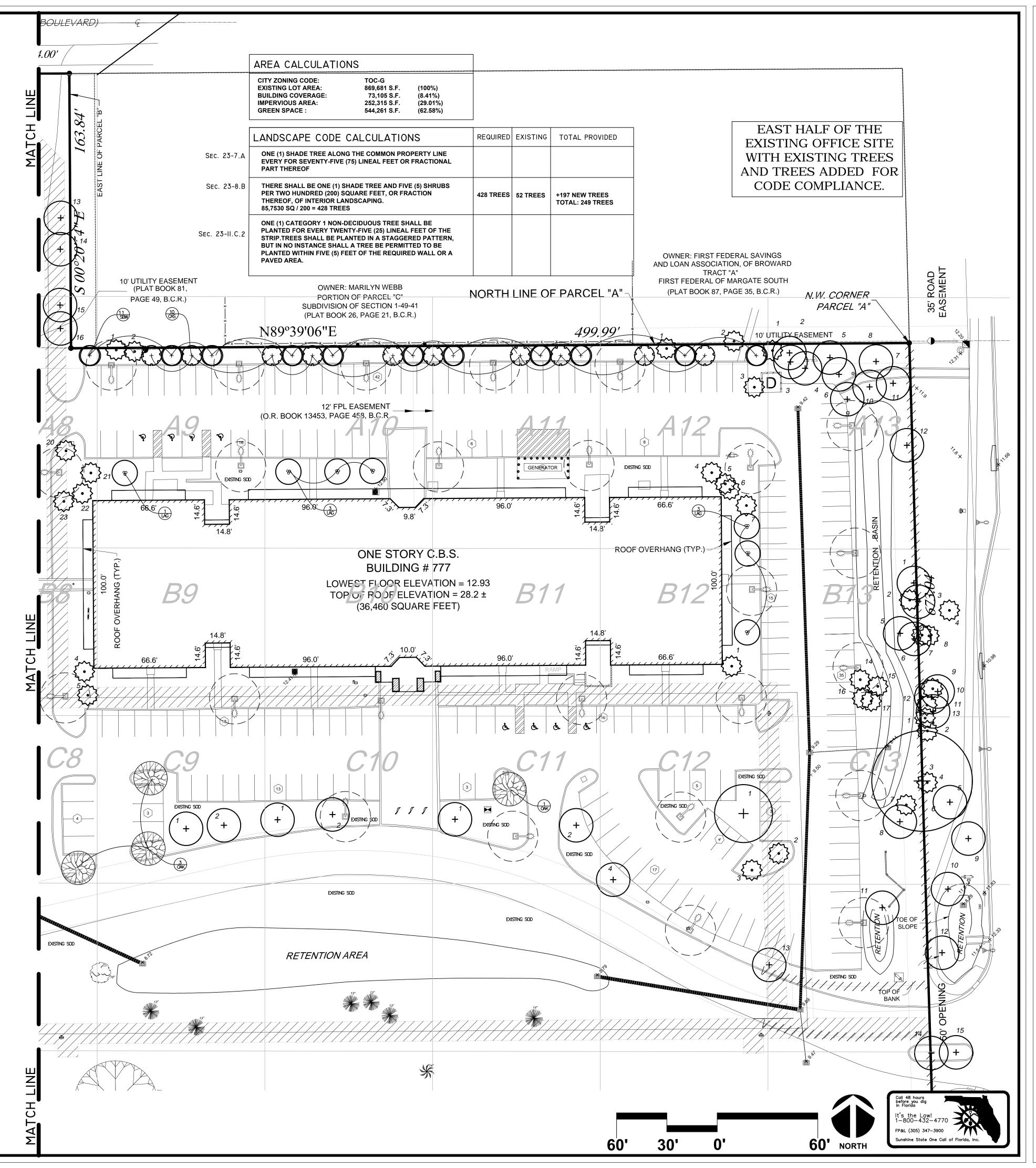
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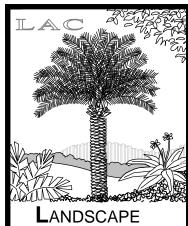
1 OF 1

# **+190 NEW TREES**

### PLANT MATERIALS LIST

	KEY	PLANT DESCRIPTION	SPECIFICATIONS	QTY
	BUL	Bulnesia arborea Verawood	12' ht.x 6' Spr 6' CT, 2" caliper	9
	CAS	Cassia / Senna surattensis Glaucous Cassia	8' ht.x 4' Spr. 4' CT, 1.5" caliper	32
	GEI	Cordia sebestena Orange Geiger Tree	10' ht.x 5' Spr 5' CT, 2" caliper	4
2	GUM	Bursera simaruba Gumbo Limbo	14' ht.x 6' Spr 6' CT, 4" caliper	25
	ILX	llex cassine Dahoon Holly	12' ht.x 6' Spr 5' CT, 1.5" caliper	32
Ĭ	LAG	Lagerstroemia indica "Natchez" Natchez White Crape Myrtle	12' ht.x 6' Spr 6' CT, 5 trunks min. 1.5" cal. per trunk	13
	OAK	Quercus virginiana Live Oak	14' ht.x 8' Spr. 6' CT, 3" caliper (ROOT GROWERS PLUS)	37
	PIN	Pinus elliottii Slash Pine	12'ht.x 6'Spr. 6' CT, 3" caliper Well formed shape	8
ומנו	SBW	Conocarpus erectus sericeus Silver Buttonwood	12' ht.x 6' Spr 5' CT, 2" caliper, Multi- 5 trunks min.	30
	DAC	Phoenix sylvesteris Sylvester Date Palm	12' CW, full head., 16-18' OA matched.	2
	FAK	Tripsacum dactyloides Dwarf Fakahatchee Grass	24" Ht X 24" Spr. 3-4' O.C. sp. as shown on plan	130
	WRT	Microsorum scolopendrium Wart Fern	14" Ht X 14" Spr. 24" O.C. sp.	705
		•	,	
	SOD	Stenotaphrum secundatum "Palmetto" St. Augustine Grass	Solid sod tight joints, weed free	as needed
	SOIL	Planting Soil as required per Details and Specifications	70 / 30 Mix of Pulverized (70%)Sand (30%)Recycled/manufactured soil	as needed
ŀ	MULCH	All areas not covered by Sod shall be Mulched in 3" continuous layer.	Eco-Cypress Mulch / available source 561-499-8148 www.mulchingsolutions.com	as needed





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DATE REVISIONS:

II-08-I8 INITIAL SUBMITTAL

DATE: 12-4-18

SCALE: I" = 30'

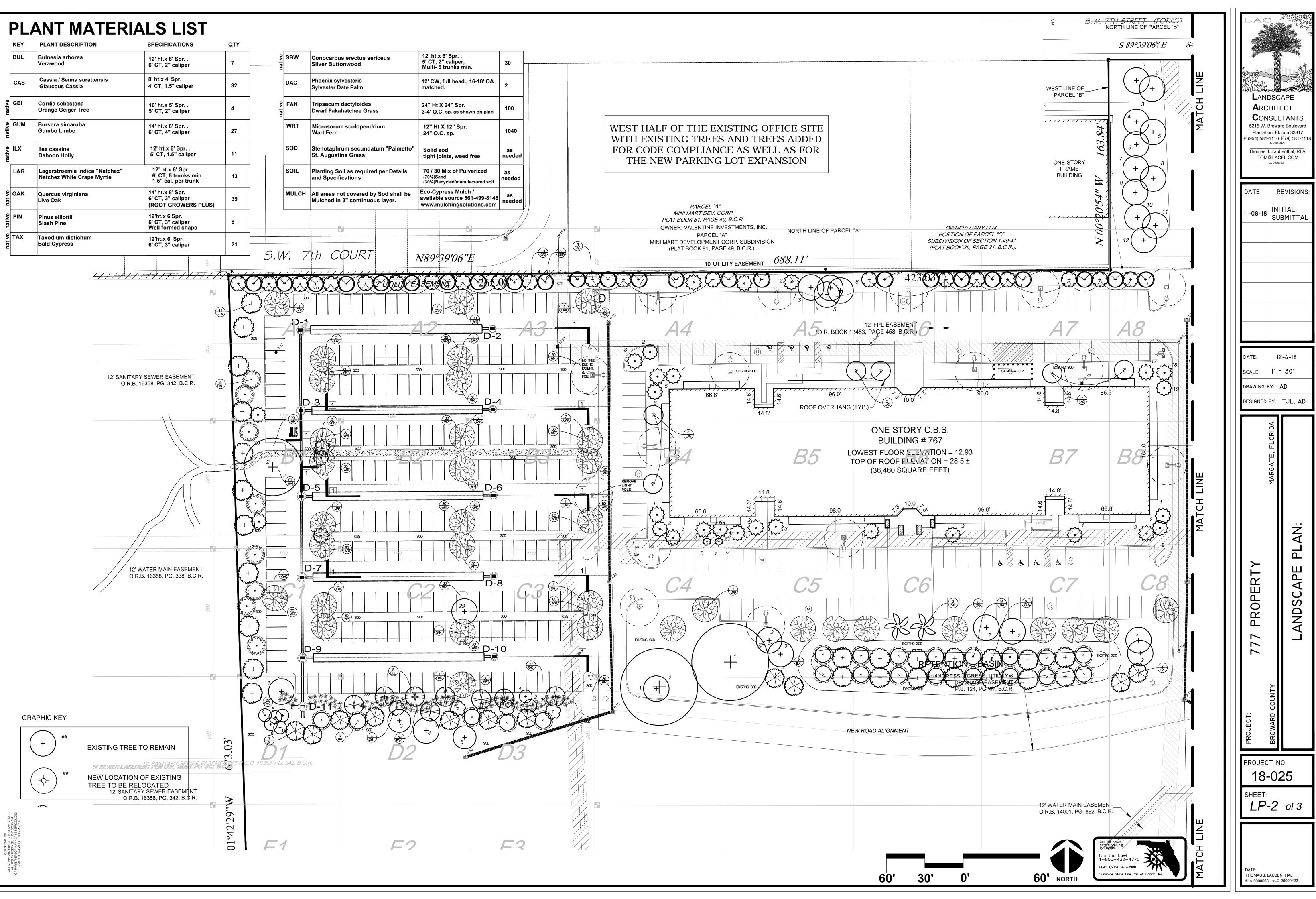
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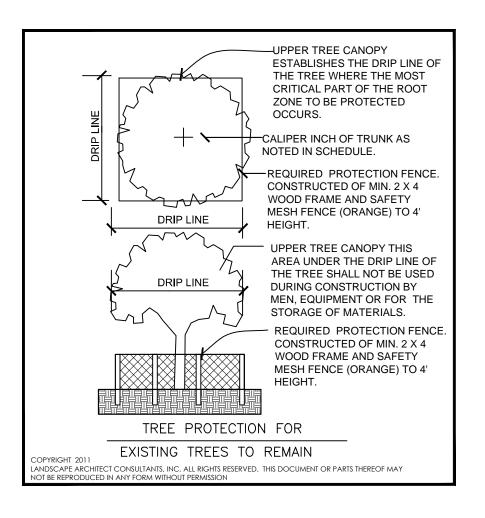
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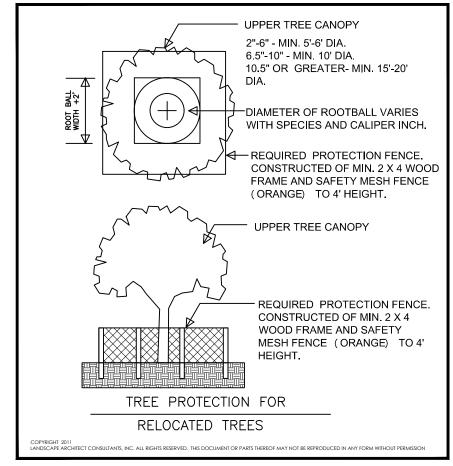
77 PROPERTY
MARGATE, FLORII
LANDSCAPE PLAN:

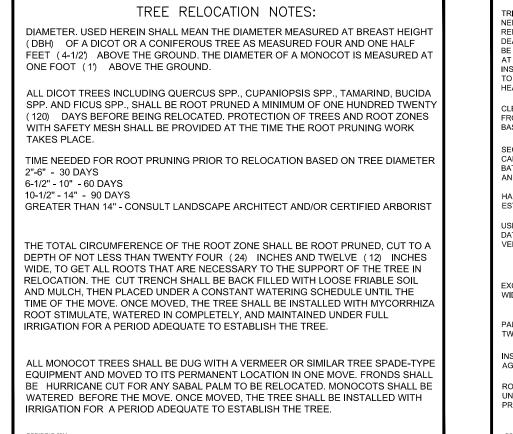
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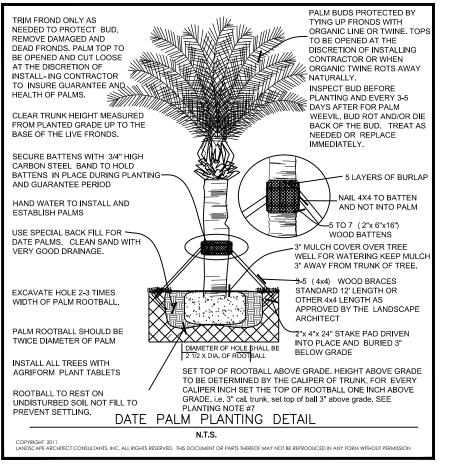
SHEET: LP-1 of 3

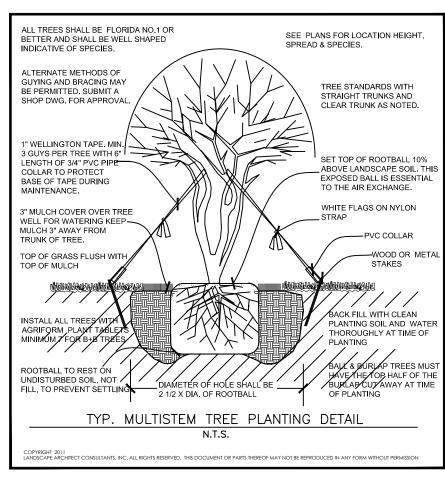


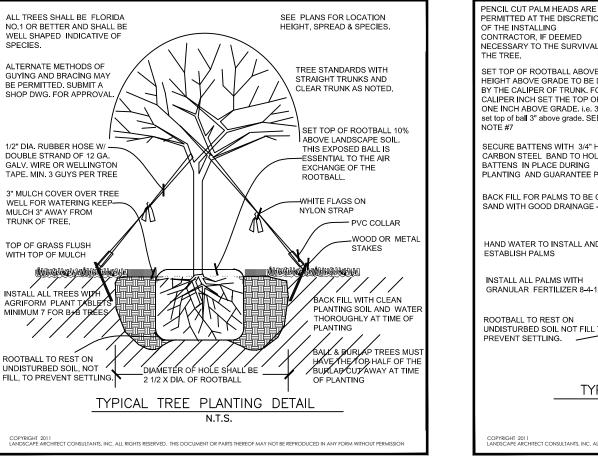


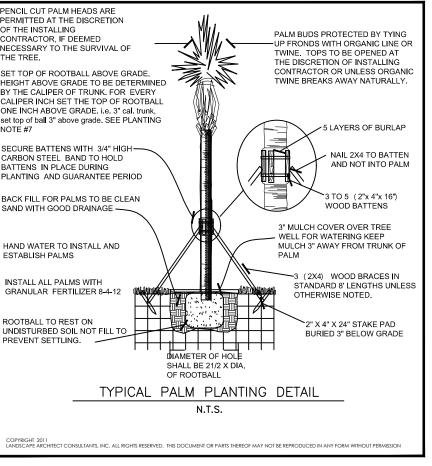


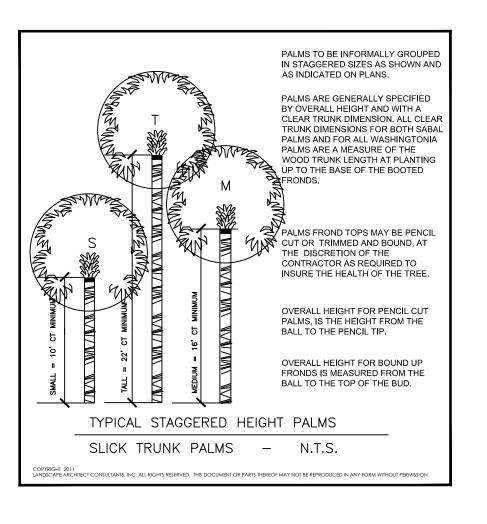


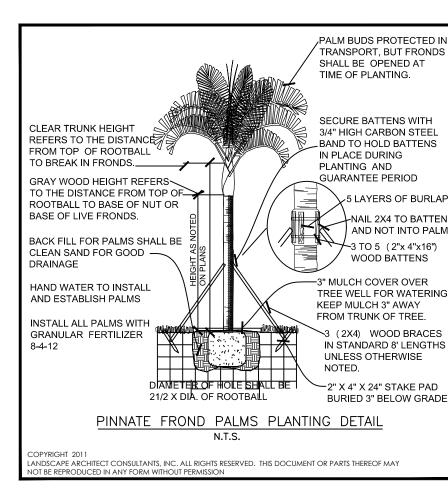


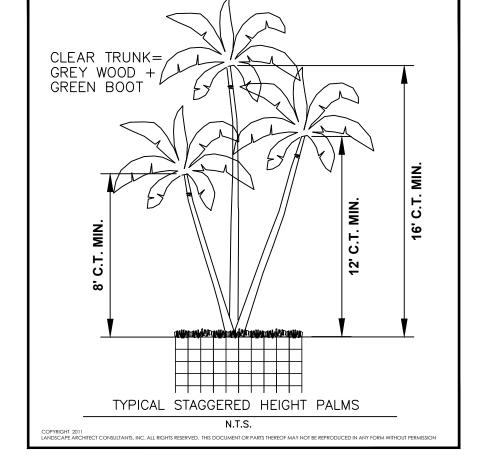


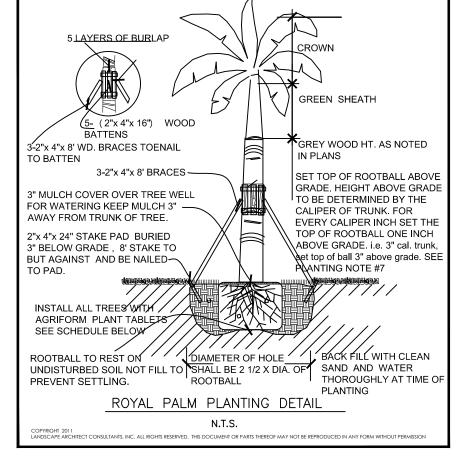


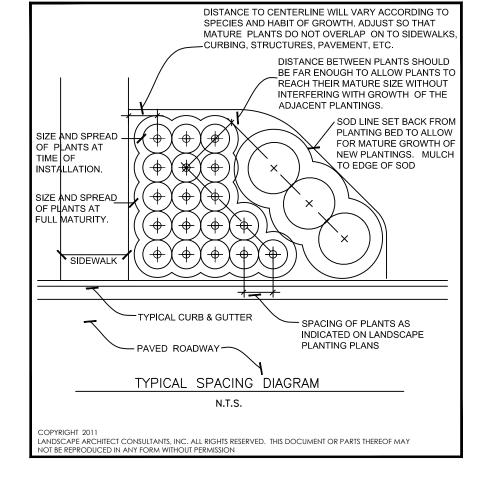












PLANTING AREA 🔟 PROPERTY LINE OR BUILDIN

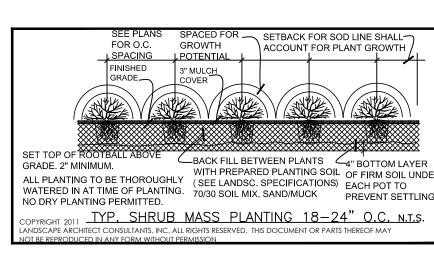
PAVEMENT

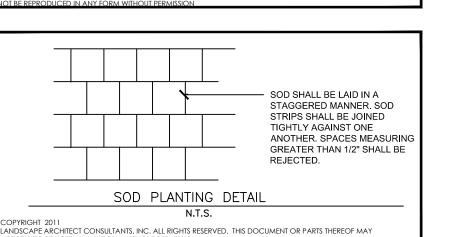
HEDGE ROW OR SHRUB MAS:

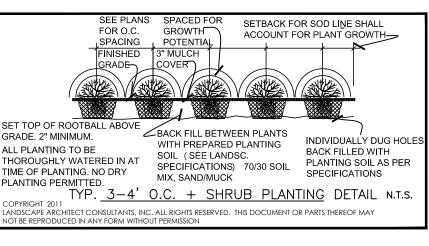
FINISH 2" BELOW TOP OF

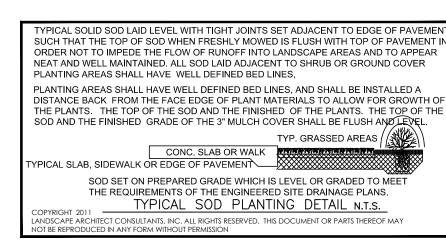
SOD SET FLUSH WITH MULCH

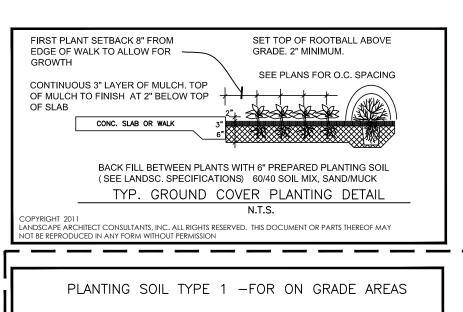
TYP SIDEWALK

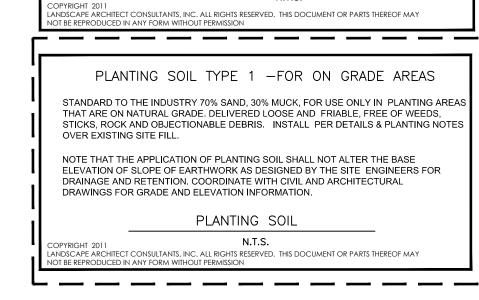


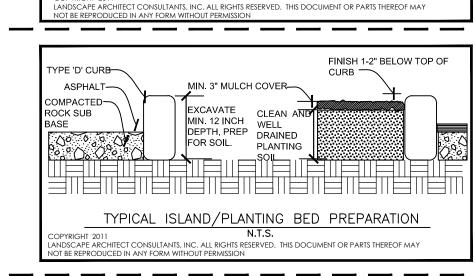












VEHICULAR USE AREA-

YPICAL PARKING CURB -

ANDSCAPE AREAS

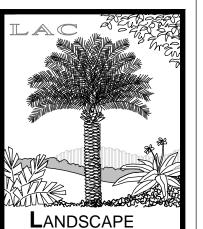
OR CAR STOP TO PROTECJ

CERTIFIED SOIL MIX 70% SAND, 20% MUCK, 10% ORGANIC. FOR USE ONLY IN PLANTING AREAS THAT ARE ON NATURAL GRADE. DELIVERED LOOSE AND FRIABLE, FREE OF WEEDS, STICKS, ROCK AND OBJECTIONABLE DEBRIS. INSTALL PER DETAILS & PLANTING NOTES OVER EXISTING SITE FILL.

## PLANTING NOTES

- 1. All sizes for plant material shown on plan are to be considered as minimums. All plant material must meet or exceed all minimum requirements for both height and spread. Any other requirements for specific shape or effect as noted on the plan will also be required for final acceptance.
- 2. All plant material furnished by the Landscape Contractor shall be Florida No.1 or better, unless otherwise specified, and shall be installed as specified in the most current edition of Grades and Standards for Nursery Plants, Part I by the Florida Department of Agriculture, Consumer Services Division, State Plant Board of Florida.
- 3. Landscape Design and installation shall conform to xeriscape landscape principles as included in the South Florida Water Management District's xeriscape Principle Guide II, updated version. Xeriscape requirements apply to all materials required by code. Additional plantings over and above code are provided to develop a higher aesthetic than code requires, and are not bound by these minimum standards.
- 4. In addition to these requirements all local landscape codes and requirements shall be met as a part of this base bid and contract in order to satisfy the review and approval of the governing municipality.
- 5. Quantities for landscape materials as noted on plans supersede any quantities listed in summary tables or lists.
- 6. All landscaping scheduled to occur in vehicular use areas shall be protected from vehicular encroachment by curbing or other durable barriers.
- 7. All planting holes shall have a minimum diameter of  $2^{1/2}$  times the diameter of the plant ball and have a minimum of 12" of soil on all sides of the plant ball. All planting holes shall be excavated to remove all objectionable materials, such as asphalt, sub-base, concrete, rock, caustic materials with an excessive soil Ph, or similar materials not suited for landscape planting. Planting hole(s) shall be dug to a depth that is 90% the height of the root ball, with the installed root ball resting on undisturbed soil. Top of root ball to be 10% above final grade. For small caliper trees of 4" or less, plant the root ball above grade 1" for every 1" caliper. (i.e. if you have a 3" caliper tree plant the rootball 3" above grade. For all shrubs and ground cover plant the rootball minimum 2" above grade.
- 8. All plant material shall be installed in planting soil that is delivered to the site in a clean, loose and friable condition. All soil shall have well draining characteristics. Soil must be free of all rocks, sticks, objectionable debris including weeds and weed seed. Minimum soil depth requirements may vary with each municipality. See details and local codes for clarification.
- 9. All plant materials shall be thoroughly watered in at the time of planting. No dry planting shall be permitted.
- 10. Local codes require specific formulas for the use of native plants, as well as calculations for required number of code size trees by type and caliper inch. See code calculation tables provided with plan drawings.
- 11. Plans and new plantings shall be required to provide for safe sight lines at all access and egress points from the site, as well as intersections. All emergency equipment such as fire hydrants shall be maintained as visible and accessible, free of obstruction by new plantings. Trees require setbacks from lighting poles and fixtures. The contractor is required to field adjust the location of plant materials to meet these standards as work in contract.
- 12. Fertilizer shall be applied directly to the surface of the plant bed immediately after installation and prior to mulching.
   Turf Areas Sunniland Fertilizer 16-4-8, applied per mfg. recommendation noted on the bag.
   Shrub Areas Atlantic Fertilizer 12-6-8 plus Minors, applied per mfg. recommendation noted on the bag.
   Palm Trees Atlantic Fertilizer Palm Mix 8-4-12 plus Minors, applied per mfg. recommendation noted on the bag.
- 13. All landscape areas not covered by shrubs or ground cover shall be planted with sod, and conversely all areas not covered by sod shall be covered with mulch to a minimum depth of (3) three inches of cover when settled. Mulch shall be kept 3" away from the face of the trunk (tree or palm). Eco-Cypress mulch or Eco-Melaleuca mulch shall be used; see natural mulch products at www.mulchingsolutions.com for product information or call 561-499-8148.
- 14. Sod shall be (as noted) solid sod, and shall be laid on a smooth planting base which has been graded to meet the drainage characteristics of the site. All sod shall be laid with closely fitted joints, and shall be in a green and healthy growing condition at planting. Sod shall be free of disease, debris, sticks, rocks and weeds. Variety as specified in plans. Where sod is abutting shrub and/or ground cover beds, the sod line shall be cut in a clean smooth line (radial or straight) free of any jagged or crooked edges.
- 15. All landscape areas shall be finished graded such that they are flush and level with the surrounding paved surfaces as not to impede the flow of drainage into landscape areas and to prevent the back wash of mulch and debris onto paved areas.
- 16. All new landscaped areas shall be excavated of all road rock, existing site fill down to a depth of 12" minimum from top of curb. SEE DETAIL THIS SHEET FOR SPECIFICS.
- 17. All landscape areas shall be irrigated by a fully automatic system adjusted to provide 100% coverage. All heads shall be adjusted to minimum 100% overlap.
- 18. The irrigation system shall be equipped with a rain sensor shutoff device, hard wired to over ride the time clock, controller or pump station in the event of rain or equally wet conditions. This requirement conforms to the County and SFWMD ordinance.
- 19. Any existing trees and their root zones on site shall be protected from damage during construction. All trees/palms to be removed or relocated shall require proper permitting and documentation of size, species, condition and proposed action. Established values for mitigation is required in the case of removals. Trees to be relocated shall be free of any hazardous defects and/or characteristics including but not limited to: Girdling roots, codominant leaders with bark inclusions, active trunk decay, stub cuts, open trunk wounds and broken leader(s). All permitting and review processes must be completed prior to any work being done. Any relocation's shall be root pruned in advance except for palm species. Palm fronds shall be hurricane cut in advance for any Sabal Palms to be relocated.
- 20. All selective trimming of existing and/or relocated trees on site, shall be done applying the standards of the American National Standards Institute, ANSI 300, 2001.
- 21. All new trees and relocated trees shall be guyed and braced applying the Standards of the National Arborist Association Guide Lines 1988 edition or most current.
- 22. All trees and palms shall be setback from roadways, walks and utility clear zones as required to conform to safety standards of the local municipality, FDOT and/or the utility companies, whether the plans show dimensions or not. These standards shall supersede all plan documents and are included in the work required by the contractor to complete the project.
- 23. Any substitutions to plant materials for areas addressed on the plans shall be approved by the governing municipality prior to work performed.
- 24. Landscape materials shall be maintained during construction as part of this base contract and any materials that die or decline below grades and standards shall be replaced immediately for final acceptance.
- 25. All landscape materials are guaranteed for full replacement including the material and labor for a period of one year from the time of final acceptance. This applies to any materials which are dead or have declined below grades and standards. The guarantee is void only in cases of 75 mph hurricane force winds at the site and/or a freeze below 35 degrees when established by the weather bureau as effecting the project location.
- 26. Medium and large maturing palms shall be planted at least 3' (feet) from all hardscapes and at least their typical frond length from a building or light pole.
- 27. Medium and large maturing trees shall be planted at least 5' (feet) from all hardscapes (e.g. sidewalks, driveways, pavers, curbs, etc.) They shall be planted a minimum of 10' (feet) from a building or light pole.





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LA-0000563

DATE	REVISIONS:
11-08-18	INITIAL SUBMITTAL

ATE:	12-4-18	
CALE:	N.T.S.	
DAWING	RV: AD	

DESIGNED BY: TJL, AD

MARGATE, FLORID

TES & DETAILS

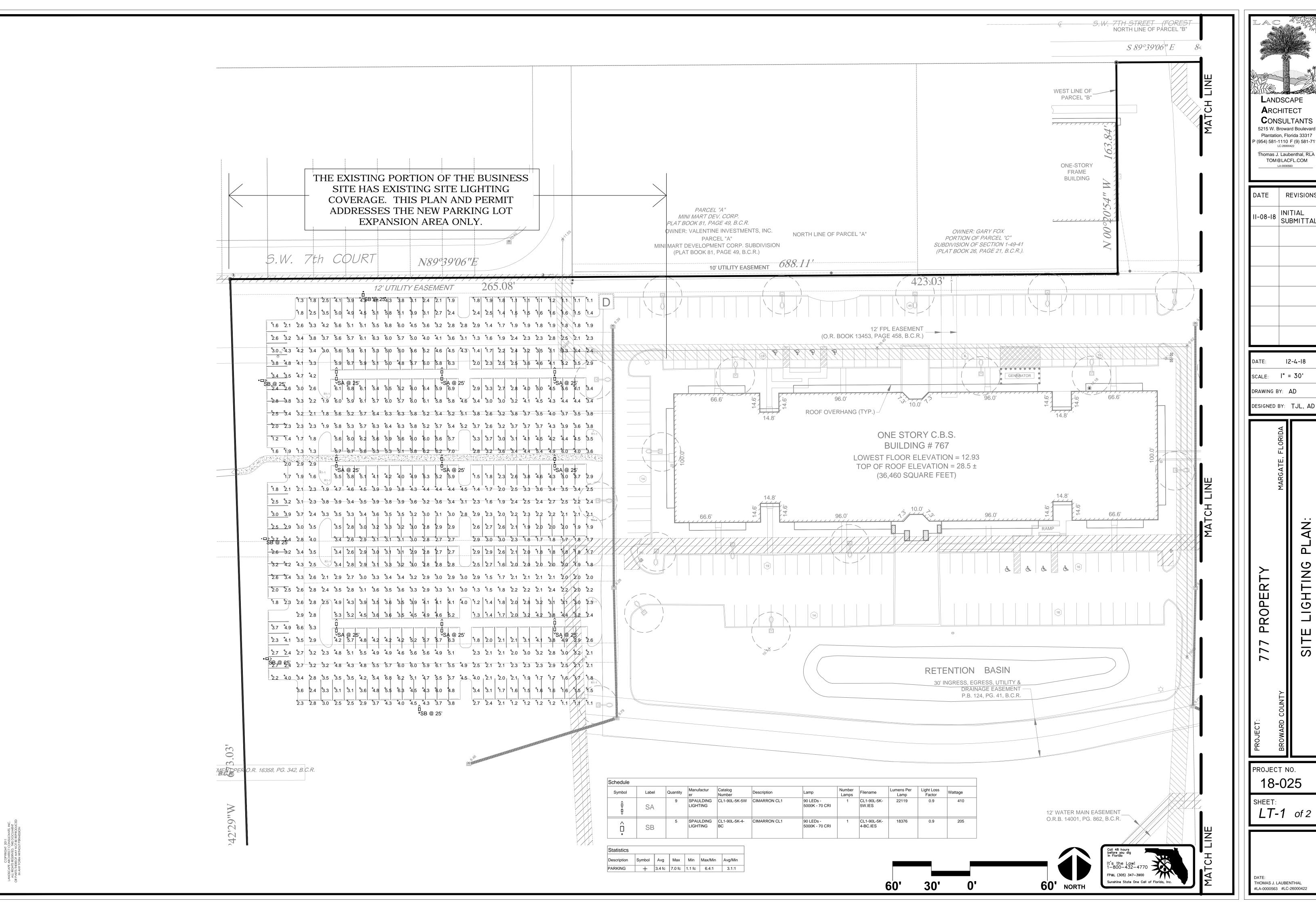
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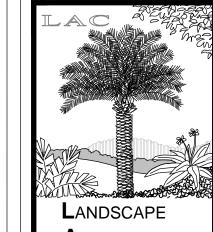
77 PROPERTY

ROWARD COUNTY

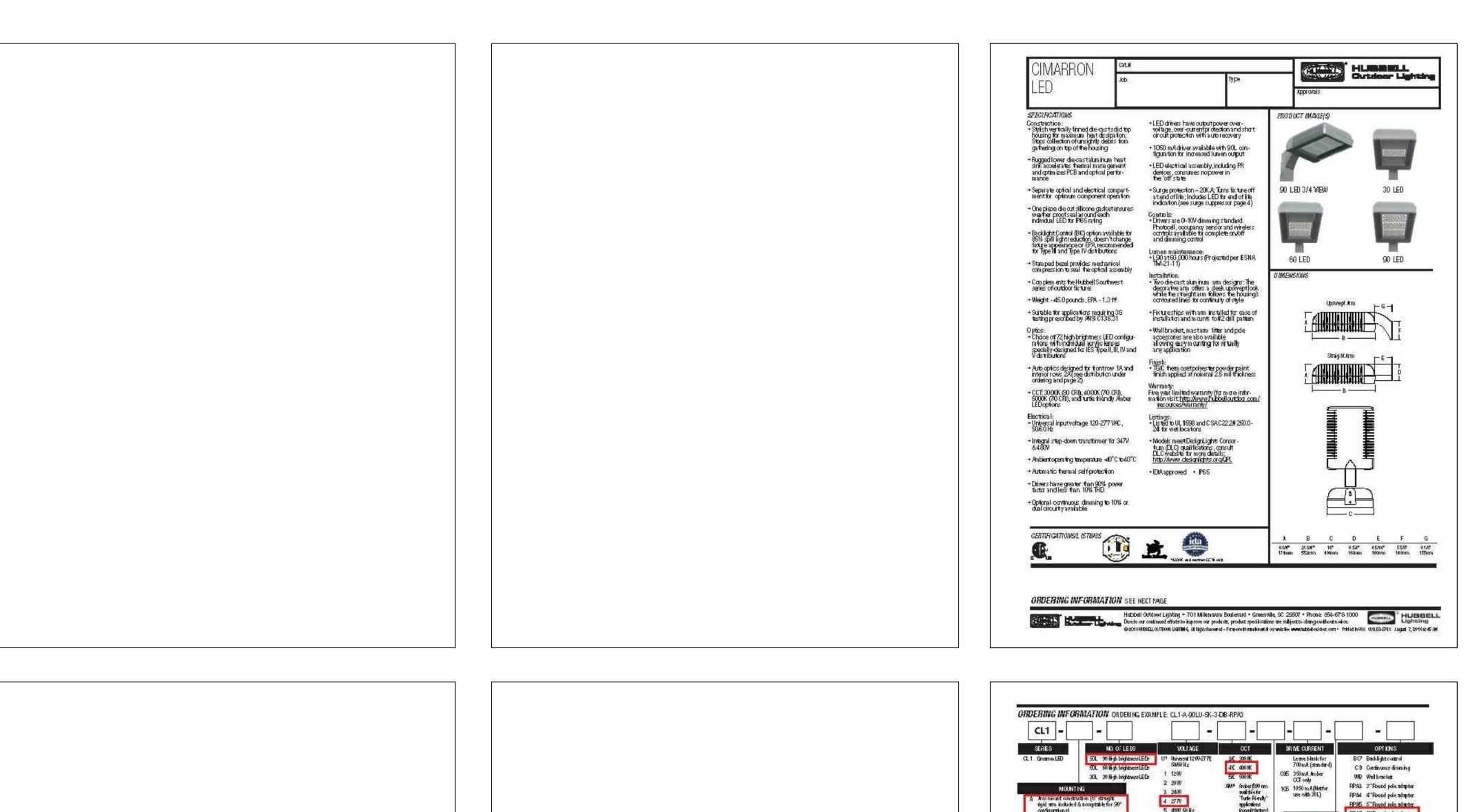
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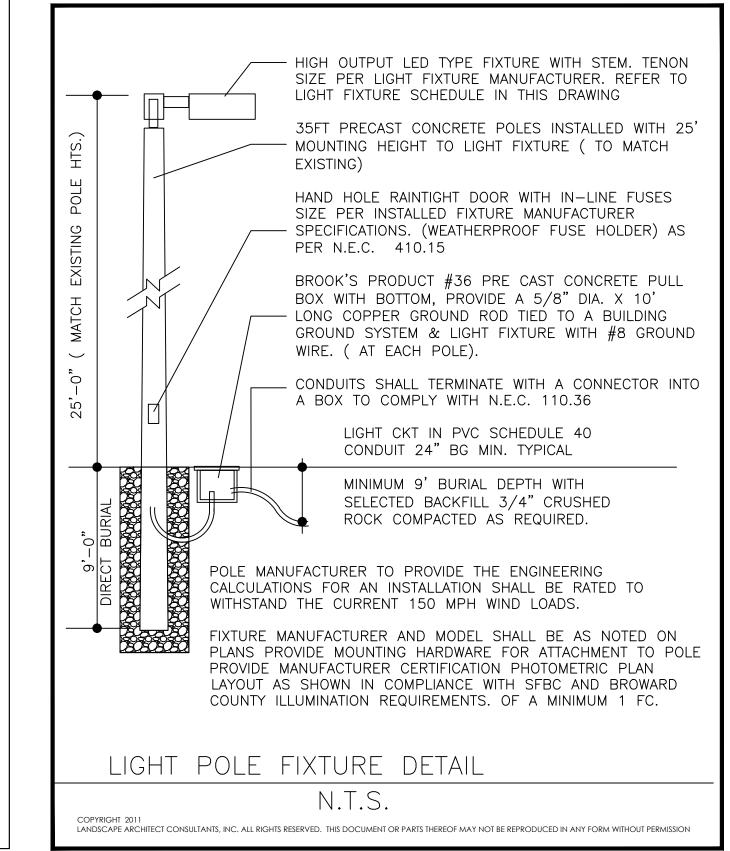
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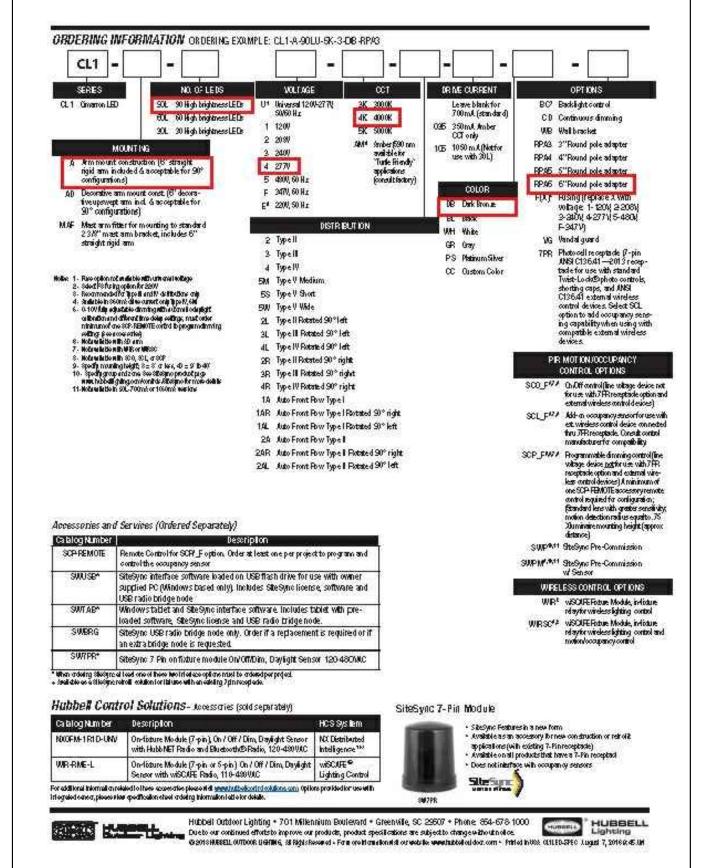


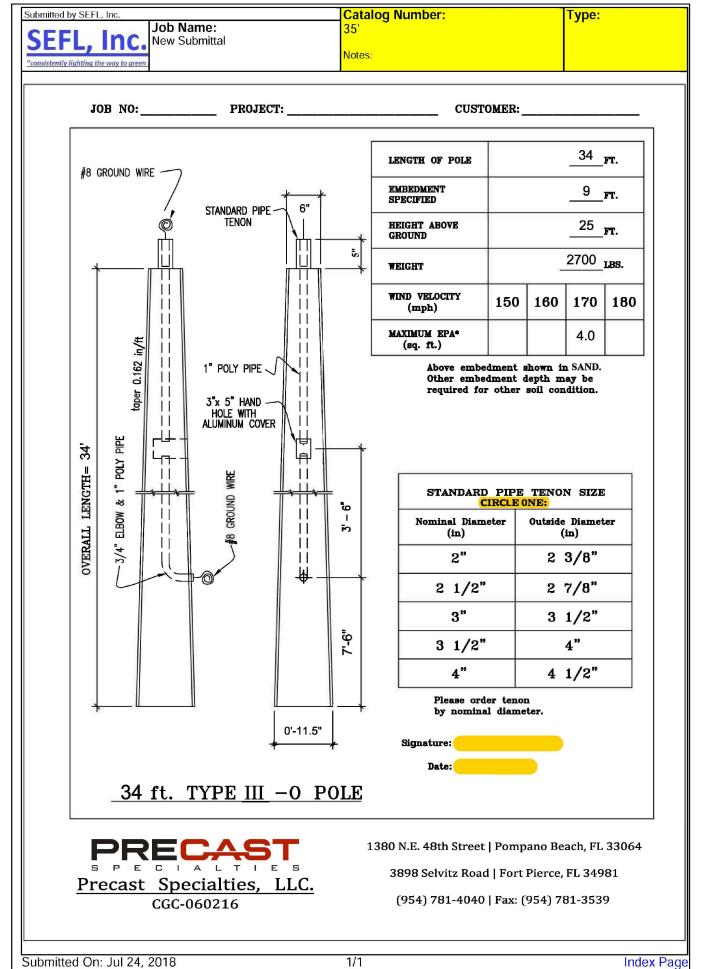


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DATE
REVISIONS:

INITIAL

DATE	REVISIONS:
11-20-18	INITIAL SUBMITTAL

DATE: 12-4-18

SCALE: N.T.S.

DRAWING BY: AD

DESIGNED BY: TJL, AD

ATE, FLORIDA

MARGATE

SPECS & DETAIL

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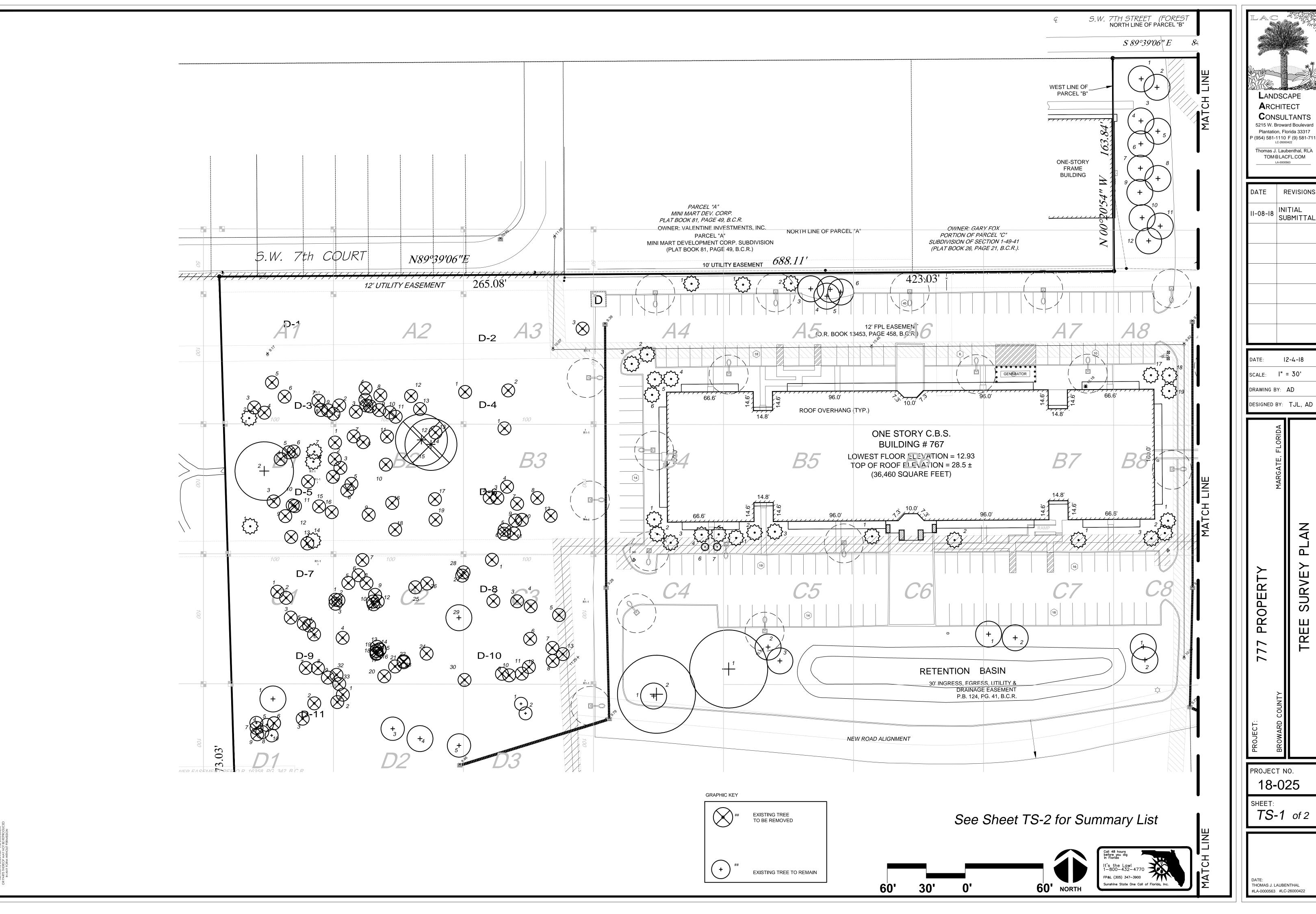
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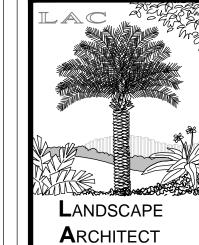
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PROJECT NO. 18-025

SHEET: LT-2 of 2





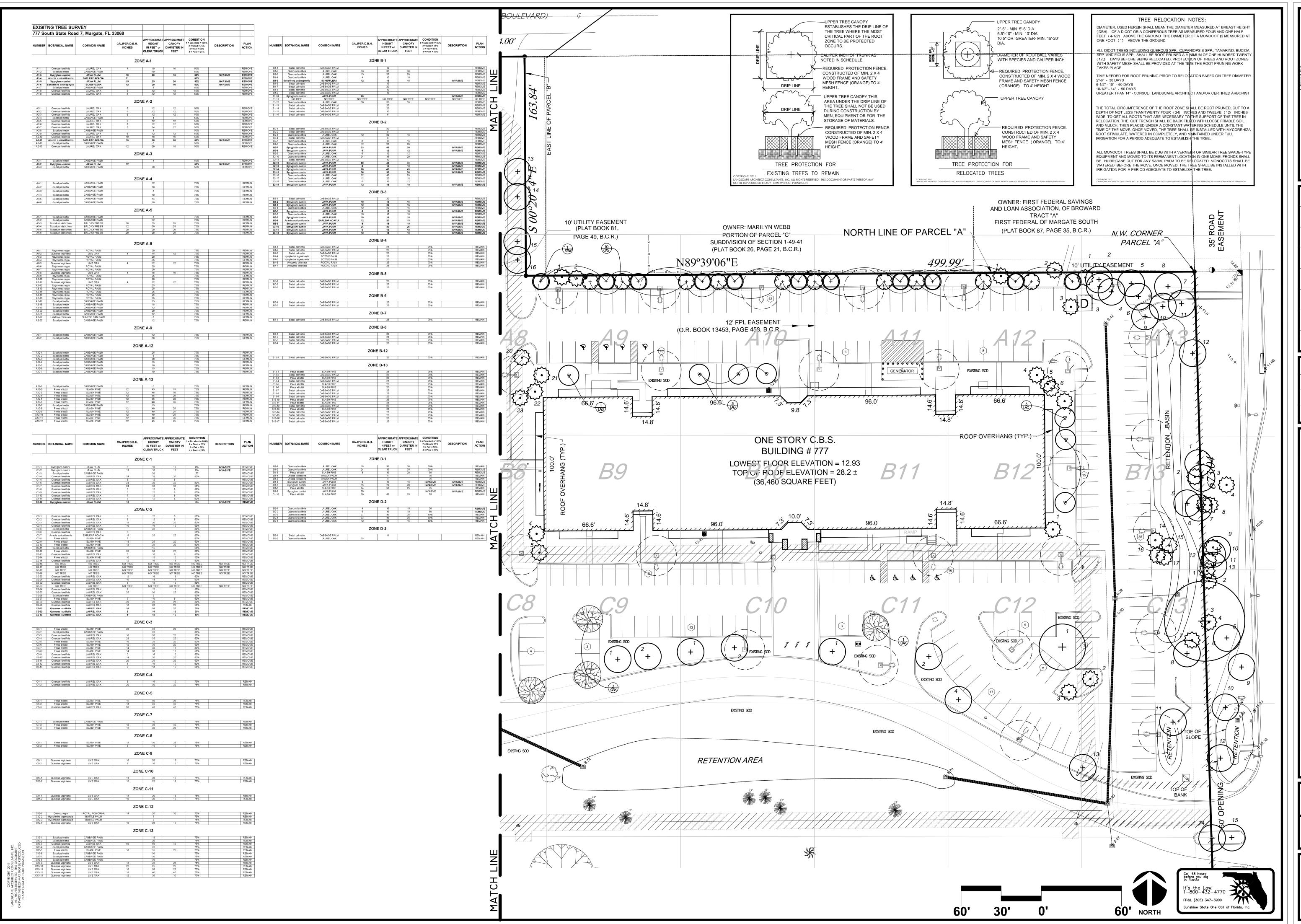
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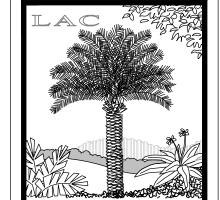
12-4-18

DRAWING BY: AD DESIGNED BY: TJL, AD

18-025

SHEET: TS-1 of 2





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LC-26000422

DATE REVISIONS:

II-08-I8 INITIAL SUBMITTAL

DATE: 12-4-18

SCALE: I" = 30'

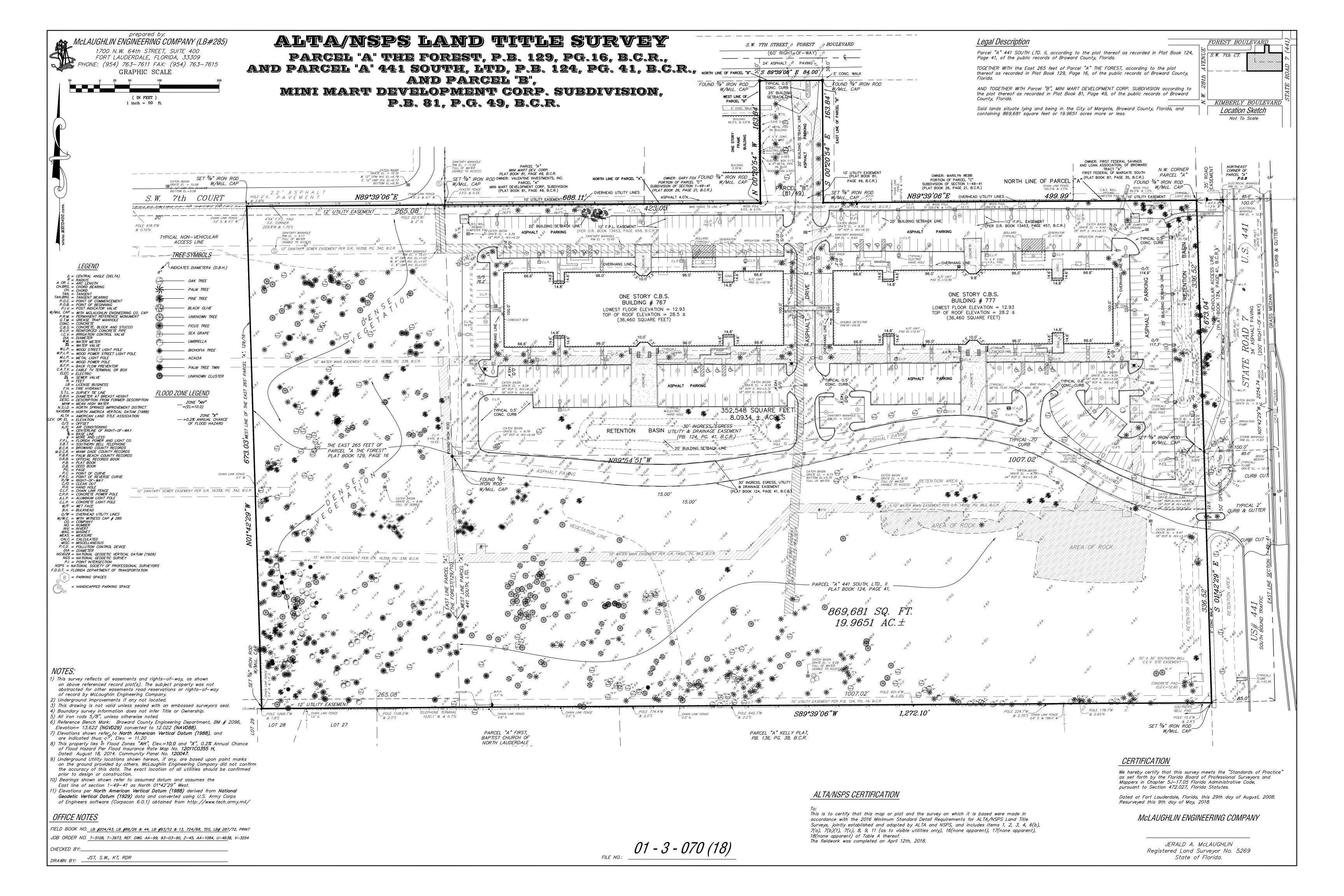
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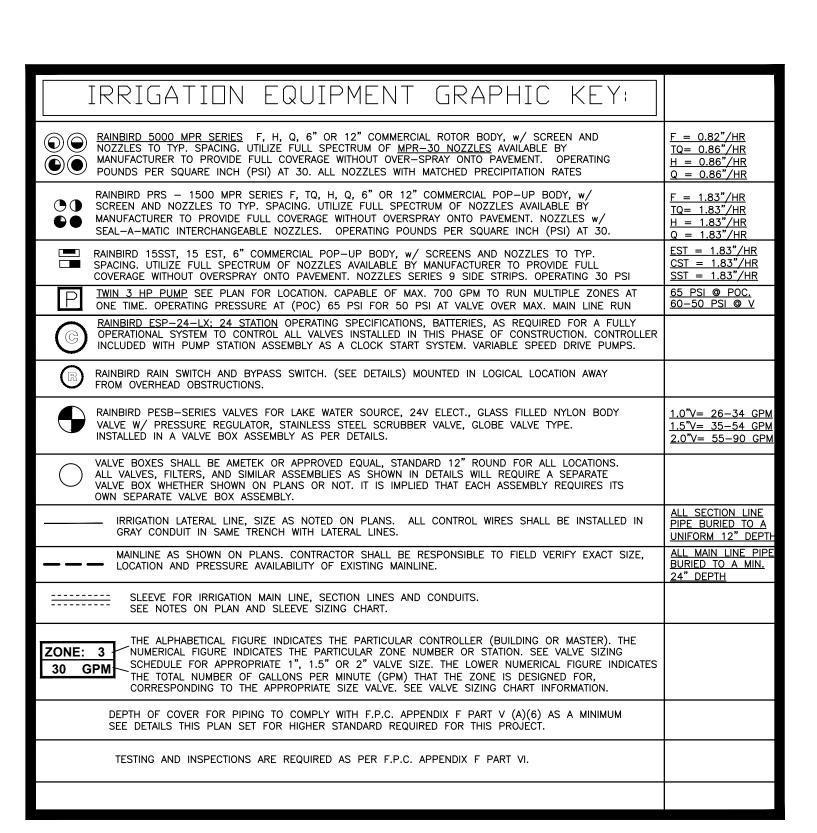
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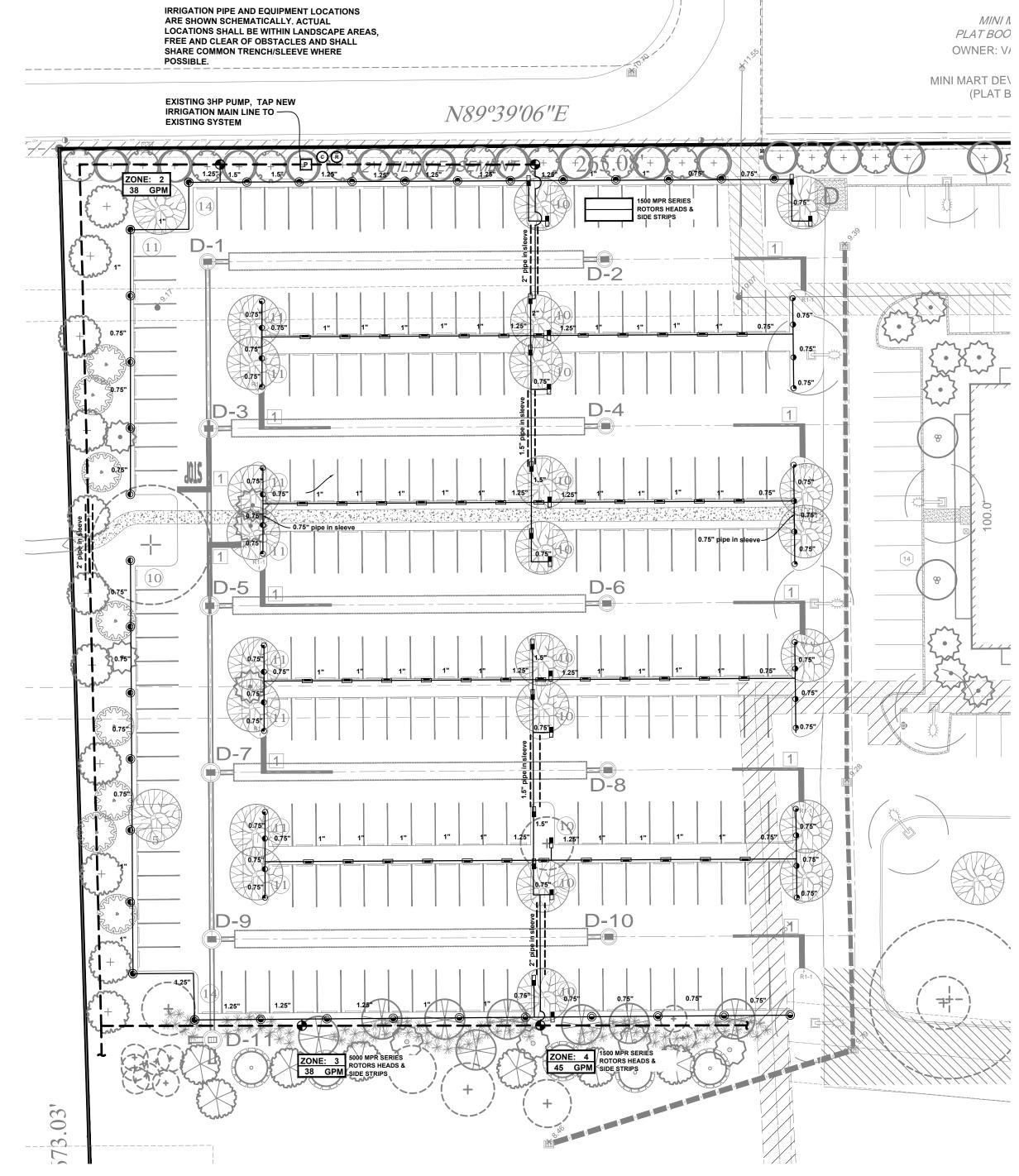
777 PROPERTY
MARGATE, FL
REE SURVEY PLANS & LIST

PROJECT NO. 18-025

SHEET: **TS-2** of 2











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REVISIONS:

DATE:	12-4-18
SCALE:	I" = 30'
DRAWING BY	r: AD
DESIGNED B	Y: TJL, AD

MARGATE, FLORIDA
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777 PROPERTY
IRRIGATION PLAN:

PROJECT NO. 18-025

SHEET:

IR-1 of 2

#### IRR. DETAIL - TIME CLOCK CONTROLLER MINIMUM REQUIREMENTS

- RAINBIRD MFG. = MODEL ESP-LX-24
- A. 24 STATION CLOCK W/ MULTIPLE PROGRAMMABLE FEATURES FOR A, B, C AND D (DRIP CYCLES)
- B. INDIVIDUAL ZONE SETTINGS IN 1-120 MINUTE INCREMENTS, WITH TIME OF DAY, MULTIPLE START TIMES, 365 DAY CALENDAR. PLUS ODD-EVEN DAY WATERING OPTIONS.
- C. WATER BUDGET AND SEASONAL PROGRAM ADJUSTMENTS WITHIN 1% TO 300% ADJUSTMENT RANGE
- D. DEFAULT PROGRAM SETTING TO RETAIN MEMORY IN CASE
- E. BATTERY BACK UP RESERVE POWER FOR MINIMUM 3 DAYS. F. RAIN AND MOISTURE SENSOR BYPASS TO OVER RIDE SYSTEM
- G. EASY PROGRAMMING GUIDE IN FACE PANEL OF UNIT.
- H. DIAGNOSTIC SELF TEST CIRCUIT BREAKER FOR WIRE FAULTS J. 120VAC +10%, 60 HZ WITH 26.5 VAC, 1.9 AMP OUTPUT

IRRIGATION DETAIL - SPRAY HEAD ON RISER

INISHED GRADE

SCH.80 PVC

NOZZLE AS CALLED FOR IN PLANS & SPECS.

FITTED INTO THREADED SHRUB ADAPTERS.

ALL EXPOSED EQUIPMENT (EXCEPT NOZZLE) TO BE

PAINTED FLAT BLACK.

3/4" SCH. 40 — PVC STREET el

IRRIGATION DETAIL- SPRAY HEAD DETAIL

6" POP-UP BODIES

12" POP-UP BODIES

IN TURF AREAS.

IN SHRUB AREAS.

NO 4" BODIES

ACCEPTED ON JOB

~~~

PVC SECTION LINE

ALL HEADS LOCATED IN GRASSED AREAS OR ADJACENT TO WALKS

OR DRIVES SHALL BE MOUNTED WITH FLEXIBLE PIPE CONNECTIONS.

SEE PLANS AND SPECS -

FOR NOZZLE SCHEDULES

SST COUPLER

BARB FITTINGS

COORD. W/ LANDSCAPE -

HEADS TO MEET FINAL GRADE.

CONTRACTOR AND ADJUST

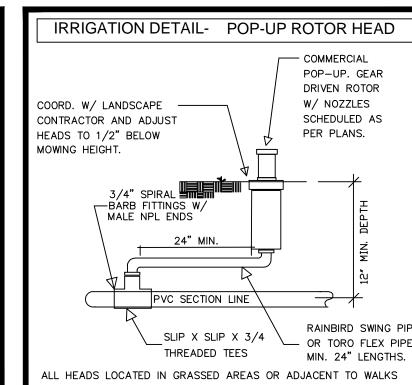
(2 PER SWING JOINT)

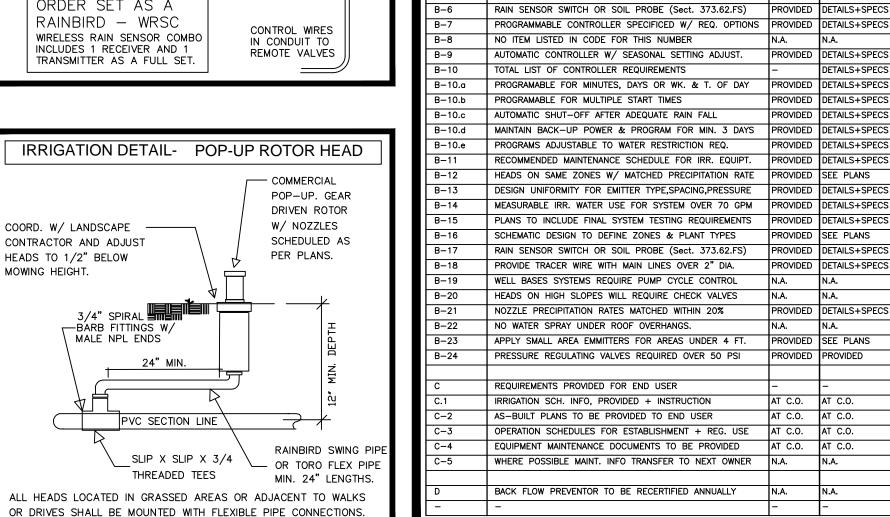
IN SHRUB AREAS ONLY

-3/4" SCH. 80 PVC

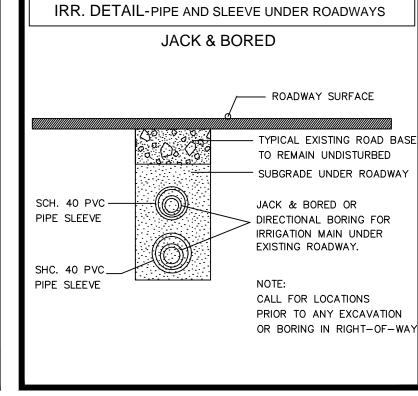
THREADED NIPPLE

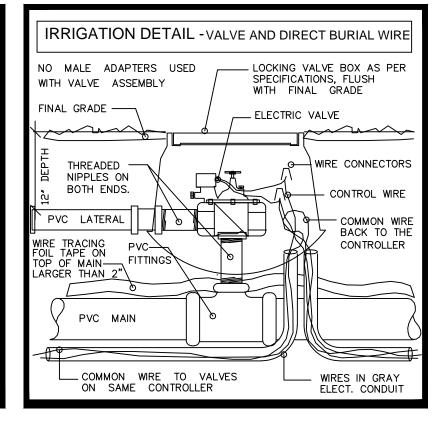
| IRR. DETAIL - RAIN SENSOR SHUT-OFF<br>DEVICE (WIRELESS SYSTEM)                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RAINBIRD RAIN SENSOR UNIT CAN BE WALL MOUNTED (RSD-BEX) OR PVC PIPE MOUNTED (RSD-CEX) INCLUDES TWO 3 VOLT (CR2032) BATTERIES WITH 5 YEAR LIFE AND 300 FOOT RANGE (LINE OF SIGHT) |
| RAINBIRD MODEL WRST WRELESS TRANSMITTER UNIT POWERED BY CONTROLLER                                                                                                               |
| SPRINKLER CLOCK HAVE A CIRCUIT DEDICATED TO THE RAIN SENSOR OVER RIDE. CONNECT BATTERY OPERATE WIRELESS TRANSMITTER TO SIDE OF CLOCK AND WIRED DIRECTLY TO CIRCUIT INSIDE.       |
| ORDER SET AS A RAINBIRD — WRSC WIRELESS RAIN SENSOR COMBO INCLUDES 1 RECEIVER AND 1 TRANSMITTER AS A FULL SET.  CONTROL WIRES IN CONDUIT TO REMOTE VALVES                        |





#### IRRIGATION DETAIL - DRIP TUBING FOR PLANTER POTS + URNS DRIP TUBE ADAPTER FITTED TO THREADED RISER ONE DRIP TUBE TO EACH POT 3/4" SCH 80 PVC — THREADED RISER TINISHED GRADE 3/4" TEE — SECTION LINE DEDICATED TO DRIP IRRIGATION SYSTEM FOR POTS AND URNS FED FROM DRIP TUBES





ORIDA FRIENDLY CODE REQUIREMENTS

STATUS METHOD

PROVIDED SEE PLANS

PROVIDED PUMP SPECS

PROVIDED DETAILS+SPECS

PROVIDED DETAILS+SPECS

PROVIDED DETAILS+SPECS

PROVIDED SEE PLANS

PROVIDED SEE PLANS

PROVIDED PLAN KEY

PROVIDED DETAILS+SPEC

PROVIDED DETAILS+SPE

PROVIDED DETAILS+SPECS

PROVIDED DETAILS+SPECS

PROVIDED DETAILS+SPEC

PROVIDED DETAILS+SPECS

PROVIDED SEE PLANS

PROVIDED SEE PLANS

PROVIDED PROVIDED

AT C.O. AT C.O.

DETAILS+SPEC

OR IRRIGATION PLANS AND DETAILS

IRRIGATION PLANS SHOWN AS FULL SCHEMATICS

WATER PRESSURE AT POINT OF CONNECTION (POC)

FULL PUMP STATION SPECIFICATION AND DETAILS

FLOW RATE SCHEDULE WITH PIPE SIZING CHART

PRECIPITATION RATE EXPRESSED IN INCHES PER HOUR

COMPLETE IRRIGATION LEGEND FOR HEADS & VALVES

IRRIGATION SYSTEM MATCHED TO PLANT MATERIAL TYPE

PRODUCTS LIST AND SPECIFICATION FOR ALL EQUIPMENT

SEPARATION OF TURF AND SHRUB WHERE PRACTICAL

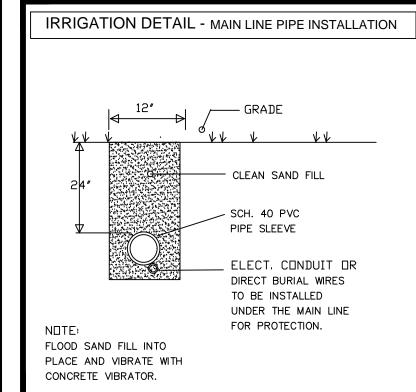
HEAD SPACING DIAGRAM WITH REQUIRED OVERLAP

FREE FLOW CONDITION PROTECTION FROM MAIN BREAKS

SOURCE CONNECTION AND DESIGN CAPACITY

WATER METER SIZE

BACK FLOW PREVENTOR TYPE



#### IRRIGATION DETAIL - PIPE SLEEVE SCHEDULE NOTE: SEE PIPE SLEEVING SCHEDULE FOR SLEEVE SIZES. FOR PIPES

2 1/2" AND OVER THERE SHOULD BE A 2" MINIMUM BETWEEN THE INSIDE WALL OF THE SLEEVE AND THE OUTSIDE WALL OF THE PIPE.

## PIPE SLEEVING SCHEDULE

| l l       |             |
|-----------|-------------|
| PIPE SIZE | SLEEVE SIZE |
| 1"        | 2"          |
| 1 1/4"    | 2 1/2"      |
| 1 1/2"    | 3"          |
| 2"        | 4"          |
| 2 1/2"+   | 6"          |

SLEEVES THAT PROTECT TWO OR MORE LATERALS AND/OR MAINS IN THE SAME SLEEVE SHALL BE SIZED BY THE CONTRACTOR WITH THE SAME MINIMUM 2" CLEARANCE STANDARD FOR ALL PIPES.

#### IRRIGATION DETAIL PRESSURE TESTING MAIN LINES

MAIN LINE PIPE SHALL BE INSTALLED WITH A MINIMUM OF 18" OF COVER. NO ROCK SHALL BE IN CONTACT WITH PIPE.

MAIN LINE PIPE SHALL BE SCHEDULE 40 PVC PIPE ONLY, WITH SOLVENT WELDED FITTINGS, INSTALLED AS PER THE MANUFACTURERS RECOMMENDATIONS INCLUDING PIPE CLEANER AND SOLVENT WELDING.

ALL NEW CONSTRUCTED MAIN LINES MUST BE PRESSURE CHECKED PRIOR TO BACK FILLING. PRESSURE CHECKS SHALL INCLUDE INSTALLED VALVE ASSEMBLIES, WITH TEMPORARY CAPS TO CLOSE THE SYSTEM. PRESSURE SHALL BE BROUGHT UP TO 100 PSI, WITH A PRESSURE GAUGE IN PLACE, AND LEFT AT THAT PRESSURE FOR 24 HOURS. ANY PRESSURE LOSS OF GREATER THAN 5 PSI IN 24 HOURS IS A FAILURE OF THE MAIN.

ANY LEAKS OR BREAKS IN THE MAIN SHALL BE LOCATED AND REPAIRED, THEN THE MAIN LINE SHALL BE RETESTED BY THE SAME PROCEDURE, FOR FINAL APPROVAL AND ACCEPTANCE.

#### PIPE SIZING NOTES

SPECIFICATIONS.

**GENERAL SPRINKLER NOTES:** 

WITH ROOTBALL AREA OF TREES.

LOCATED UNDER THE MAIN FOR PROTECTION.

A MINIMUM OF 12" BELOW GRADE.

APPROVALS PRIOR TO IMPLEMENTATION.

EACH AND ALL WIRES.

CONFORM TO THOSE IN THE FIELD

DIAMETER ROUND BOX. ONE PER EACH VALVE.

ADDED TO INSURE COVERAGE FOR THE PROJECT.

CHAPTER AND FLORIDA BUILDING CODE APPENDIX F.

CONDUIT WITH SWEEPS UP INTO A PULL BOX OR VALVE BOX ASSEMBLY.

LOSS IN 24 HOURS FROM A 100 PSI PRIMING FOR ANY GIVEN TEST LENGTH.

IRRIGATION CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL OTHER DRAWINGS OF THE PROJECT TO RESOLVE COORDINATION AND POTENTIAL CONFLICTS WITH EXISTING UNDERGROUND PIPES AND

UTILITIES OR WORK BY OTHERS, PRIOR TO ANY WORK BEING DONE. MOST MAIN LINES SHARE ALIGNMENT WITH PERIMETER UTILITY EASEMENTS & SIGNIFICANT LANDSCAPE BUFFER PLANTINGS. AVOID CONFLICTS

2. THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO CALL FOR LOCATIONS AND TO COORDINATE WITH LOCAL AGENCIES TO IDENTIFY LINES, PIPES, CABLES OF EASEMENTS WITHIN THE EFFECTED AREAS, PRIOR TO WORK ALL WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE PLUMBING SECTION, APPENDIX F FOR IRRIGATION.

3. THE INSTALLING CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN LICENSE, AND PERMITS WITHIN THE

MUNICIPALITY AND MIAMI-DADE COUNTY AS WELL AS THE RELATED FEES WITHIN THE CONTRACT PRICE. PERMITS FOR SOUTH FLORIDA WATER MANAGEMENT DISTRICT ARE PULLED BY THE OWNER. (QUALIFIED

APPLICANT 104.6.1.2) PERMITS WILL ONLY BE ISSUED TO QUALIFIED PEOPLE OR FIRMS. QUALIFICATION SHALL

BE IN ACCORDANCE WITH; THE RULES OF THE BROWARD COUNTY CENTRAL EXAMINING BOARD, ORDINANCE

78-9 AND CHAPTER 9 OF THE COUNTY CODES; STATE DBPR, CHAPTER 489, PART 1 OF FLORIDA STATE

STATUTES; OR OTHER EXAMINING BOARDS APPROVED BY THE BROWARD BOARD OF RULES AND APPEALS.

4. THE HORIZONTAL CONTROL FOR THE PROJECT WILL BE ESTABLISHED BY THE GENERAL CONTRACTOR WHO

5. ALL MAINS AND SECTION LINES ARE SHOWN SCHEMATICALLY. LINES WHERE EVER POSSIBLE SHALL BE

7. SLEEVES UNDER ROADWAYS MAY BE DEEPER THAN 24" TO COORDINATE WITH ROADWAY CONSTRUCTION

REQUIREMENTS OR TO COORDINATE WITH UTILITIES. SLEEVES UNDER PAVED PARKING AREAS WILL

8. ALL MAIN LINE PIPE SHALL BE SCHEDULE 40 PVC NEW PIPE ONLY. TYPE 1, PIPE, ASTM D-2241.

CONSOLIDATED INTO COMMON TRENCHES. THE CONTROL WIRES IN GRAY ELECTRICAL CONDUIT SHALL BE

6. ALL MAIN LINES SHALL BE BURIED A UNIFORM 24" BELOW GRADE. ALL SECTION LINES SHALL BE INSTALLED

9. ALL SECTION LINE PIPE FROM 3/4" TO 2" I.D. SHALL BE SCHEDULE 40 PVC NEW PIPE ONLY. TYPE 1, PIPE,

10. ALL PIPING IS SIZED TO MEET DESIGN CALCULATIONS FOR GPM FLOW AND FOR A PRE-DESIGNED CUSHION TO

ASTM D-2241. ALL SECTION LINE PIPE FROM 2.5" TO 6" SHALL BE SDR-26 (160 PSI) PVC 1120 TYPE 1 PIPE.

ALLOW FOR NOMINAL REPAIRS AND FOR MODIFICATIONS TO THE SYSTEM WHICH OCCUR OVER TIME IN NORMAL

OPERATION OF SYSTEM. LINE SHALL BE INSTALLED TO THE SIZE AS SHOWN IN PLANS. DOWN SIZING LINES

IS NOT PERMITTED WITHOUT A CHANGE ORDER AND A REVISION OF THE DRAWING. THE CONTRACTOR MAY

ALL PVC CEMENT SHALL CONFORM TO ASTM D-2564. ALL PVC PIPE CLEANER SHALL CONFORM TO ASTM

SUGGEST REVISION OR VALUE ENGINEERING WITH THE LANDSCAPE ARCHITECT FOR REVIEW AND WRITTEN

ALL PVC SOLVENT WELDED ASSEMBLY SHALL BE CLEANED AND PRIMED PRIOR TO THE SOLVENT WELD.

MANUFACTURERS RECOMMENDATIONS AND STANDARDS OF THE FLORIDA IRRIGATION SOCIETY, BROWARD

3. ALL CONTROL WIRES SHALL BE U.L. APPROVED DIRECT BURIAL TYPE PLASTIC COATED WIRE, AWG SIZE

14. ALL CONTROL WIRES SHALL BE INSTALLED IN U.L. APPROVED SIZE OF CLASS 160 GRAY ELECTRICAL

16. ALL VALVE BOXES AND PULL BOXES FOR CONTROL WIRES SHALL BE AN AMETEX BOX, MINIMUM 10"

THE IRRIGATION CONTRACTOR SHALL BRING THE CONTROL WIRES TO THE TIMECLOCK/CONTROLLER AND

17. EACH LENGTH OF MAIN LINE BETWEEN THE PUMP STATION AND EACH ISOLATION VALVE SHALL BE PRESSURE

18. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE WATER DEPARTMENT TO INSTALL THE BACK

19. THE FULL SPECTRUM OF NOZZLES, NOZZLE ANGLES, FULL CIRCLE, PART CIRCLE & ADJUSTABLE PATTERN

COMPLETE COVERAGE WITH THE MANUFACTURERS RECOMMENDED 100% OVERLAP. AND UTILIZE THE

SPIRAL BARB FITTINGS AND THICK WALL PIPE OR SUBMIT SHOP DRAWINGS FOR APPROVAL.

HEADS IS TO BE EMPLOYED IN THIS CONSTRUCTION. THE CONTRACTOR SHALL ADJUST THE SYSTEM FOR

INCLUDE IN HIS BID AND PROVIDE FOR THE INSTALLATION OF ANY ADDITIONAL HEADS REQUIRED TO BE

20. ALL HEADS SHALL BE SET USING THE MANUFACTURES RECOMMENDED SWING JOINT ASSEMBLIES INCLUDING

21. ALL MATERIALS ARE GUARANTEED FREE FROM DEFECTS AND ALL WORKMANSHIP AND INSTALLATION ARE

GUARANTEED FOR THE COST OF FULL REPLACEMENT FOR A PERIOD OF ONE YEAR FROM THE TIME OF COMPLETION AND FINAL ACCEPTANCE OF EACH SEPARATE, COMPLETED, AND FULLY OPERATIONAL SYSTEM.

ADJUSTABLE PATTERN HEADS TO AVOID OVERSPRAY TO PAVED SURFACES. THE CONTRACTOR IS ALSO TO

CHECKED AND INSPECTED BY THE DESIGN PROFESSIONAL. PRESSURE MUST MAINTAIN A MINIMUM OF 5 PSI

FLOW PREVENTOR ACCORDING TO LOCAL CODES & STANDARDS ADJUSTING TO SCHEDULES OF EQUIPMENT.

PIPING, MATERIALS FOR SIGN OFF AND APPROVALS. CODE REQUIREMENTS TAKE PRECEDENT OVER DETAILS &

CONNECT ALL WIRING ON THE LOW VOLTAGE SIDE OF THE PANEL. ALL HIGH VOLTAGE WIRING AND POWER IS PROVIDED BY THE PUMP MANUFACTURER AND THE OWNER. LABEL ALL CONTROL WIRES AT THE PANEL TO

MINIMUM 14 GAUGE SOLID OR 12 STRAND WIRE. ALL SPLICES SHALL BE MADE WITH RAINBIRD ST-03

SNAP TIGHT WATERPROOF CONNECTORS. ALL WIRES SHALL BE MARKED WITH DURABLE TAGS IDENTIFYING

ALL WORK SHALL BE DONE IN A GOOD WORKMAN-LIKE MANNER AND IN ACCORDANCE WITH THE

PAVED AREAS, PARKING ISLANDS, DRAINAGE STRUCTURES AND RELATED FEATURES.

TYPICALLY MAINTAIN A 24" DEPTH TO ALIGN WITH MAIN LINE INSTALLATION DEPTHS.

WILL LOCATE AND STAKE PROPERTY LINES, ALL RECORDED EASEMENTS, LIMIT OF WORK LINE, LIGHT POLES,

PIPES ARE SIZED SPECIFICALLY TO THE ANTICIPATE THE USE OF THE APPROPRIATE NOZZLE REQUIRED FOR ADEQUATE COVERAGE WITHOUT OVERSPRAY. THE PIPE SIZE IS DESIGNED WITH A REASONABLE MINIMUM CUSHION IN THE LINE SIZE THAT WILL ALLOW THE OWNER THE LATITUDE TO EFFECT NORMAL REPAIRS AND CHANGES OVER COMING YEARS. DO NOT REDUCE THE LINE SIZES FROM THE SCHEDULE SHOWN.

NO PVC PIPE AND FITTINGS, SMALLER THAN 3/4" PIPE SHALL BE PERMITTED, EXCEPT FOR SWING JOINT ADAPTERS TO FLEX PIPE FITTINGS. ALL SECTION LINE PIPE SHALL BE STANDARD INDUSTRY PIPE SIZES 3/4", 1" 1 1/4", 1 1/2", 2" 2 1/2", 3', AND 4" PIPE. WITH APPROPRIATE NEW SCH. 40 PVC FITTINGS FOR SOLVENT WELDED ASSEMBLY USING CLEANERS/PRIMERS.

IT IS THE INTENT OF THE LANDSCAPE ARCHITECT / DESIGNER TO PROVIDE A SCHEMATIC DRAWING DEMONSTRATING THE RECOMMENDED PIPING LAYOUT. THE CONTRACTOR SHALL CON-FORM TO THAT PLAN DIAGRAM WHEREVER POSSIBLE. WHEN A CHANGE IN THE LAYOUT IS DEEMED NECESSARY DUE TO A CON-

IRRIGATION DETAIL - PIPE SIZING & NOZZLE NOTES

CONTRACTORS SHALL EMPLOY THE FULL SPECTRUM OF NOZZLE PATTERS AVAILABLE FROM THE MANUFACTURER TO PROVIDE THE CORRECT NOZZLES TO COVER THE LANDSCAPE AREAS AND AVOID OVERSPRAY ONTO PAVED AREAS. THIS WOULD INCLUDE BUT NOT BE LIMITED TO, ADJUSTABLE ARC NOZZLES, CENTER STRIP, END STRIP & SIDE STRIP NOZZLES, AND OTHER BASIC NOZZLES DESIGNED TO CONTROL OVERSPRAY ONTO AREAS NOT INTENDED TO GET WET OR REQUIRED COVERAGE. THE USE OF THESE NOZZLE TYPES IS IMPLIED AS PART OF THE BASE BID PRICE AND REPRESENTS A SYSTEM INSTALLATION THAT IS STANDARD TO THE INDUSTRY AND REQUIRED BY LOCAL CODES FOR WATER CONSERVATION AND SAFETY PROTECTION AGAINST WET SURFACES, SLIP & FALL SITUATIONS OR SKID ACCIDENT. PIPES ARE SIZED SPECIFICALLY TO THE ANTICIPATE THE USE OF THE APPROPRIATE NOZZLE REQUIRED FOR ADEQUATE COVERAGE WITHOUT OVERSPRAY. THE PIPE SIZE IS DESIGNED WITH A REASONABLE MINIMUM CUSHION IN THE LINE SIZE THAT WILL

ALLOW THE OWNER THE LATITUDE TO EFFECT NORMAL REPAIRS

AND CHANGES OVER COMING YEARS. DO NOT REDUCE THE

LINE SIZES FROM THE SCHEDULE SHOWN.

LANDSCAPE **A**RCHITECT CONSULTANTS 5215 W. Broward Boulevard Plantation, Florida 33317 P (954) 581-1110 F (9) 581-71

Thomas J. Laubenthal, RLA TOM@LACFL.COM LA-0000563

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12-4-18 SCALE: |" = 30'

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PROJECT NO.

SHEET: IR-2 of 2

THOMAS J. LAUBENTHAL #LA-0000563 #LC-26000422

IRRIGATION DETAIL -

FLICTS, ADJUST PIPE AS NEEDED AND PROVIDE AS-BUILT DATA.

FP&L (305) 347-3900 Sunshine State One Call of Florida, Inc.