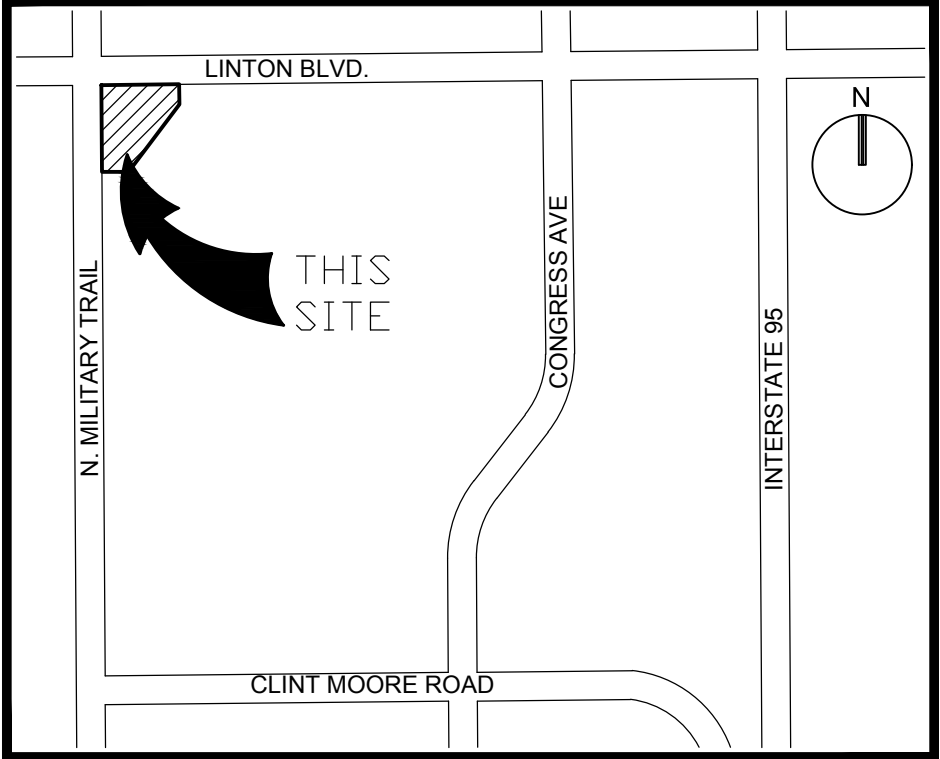


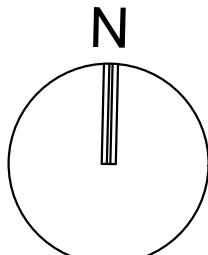
TREE DISPOSITION LEGEND:	
	EXISTING TREE/PALM TO REMAIN WITHOUT DISPOSITION SYMBOL
	EXISTING TREE/PALM TO RELOCATE
	REFER TO LANDSCAPE PLAN FOR NEW LOCATION
	EXISTING TREE/PALM TO REMOVE
	REMOVE ALL CAT 1 INVASIVE EXOTICS (EX: BRAZ. PEPPER)
	EXISTING TREE/PALM NUMBER
	REFER TO TREE DISPOSITION AND TREE SURVEY LISTS

- TREE DISPOSITION NOTES:**
- EXISTING TREES TO REMAIN SHALL BE TRIMMED PER ANSI-A300 STANDARDS, REMOVING WEAKEST RUBBING BRANCHES AND DEAD BRANCHES, BUT RETAINING 80% OF FOLIAGE. LARGE TREES SHALL HAVE LOWER BRANCHES CLEARED UP TO 8'.
  - SYMBOLS MAY BE SHOWN OFFSET FROM ACTUAL TREE LOCATION FOR CLARITY.
  - CONTACT LANDSCAPE ARCHITECT / ISA CERTIFIED ARBORIST FOR CLARIFICATION ON ANY DISCREPANCIES.
  - TRIMMING AND ANY NECESSARY ROOT PRUNING SHALL BE PERFORMED OR SUPERVISED BY A CERTIFIED ARBORIST.
  - ALL TREE WORK REQUIRE PERMITTING BY A REGISTERED COUNTY TREE TRIMMER.
  - BUBBLERS SHALL BE PROVIDED FOR ALL RELOCATED TREES AND PALMS.
  - REMOVAL OF ANY TREES OR PALMS WILL REQUIRE A WRITTEN "TREE REMOVAL PERMIT" FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL. CONFIRM WITH LOCAL GOVERNING AGENCY THAT TREES CLASSIFIED AS NUISANCE/EXOTIC INVASIVE MAY BE EXEMPT.
  - ALL TREES AND PLANT MATERIAL TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. REFER TO TREE PROTECTION DETAIL ON SHEET LP-501. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PREVENT ANY DAMAGE TO THE TRUNK, ROOT ZONES AND GRADE.



LOCATION SKETCH

NOT TO SCALE



GRAPHIC SCALE

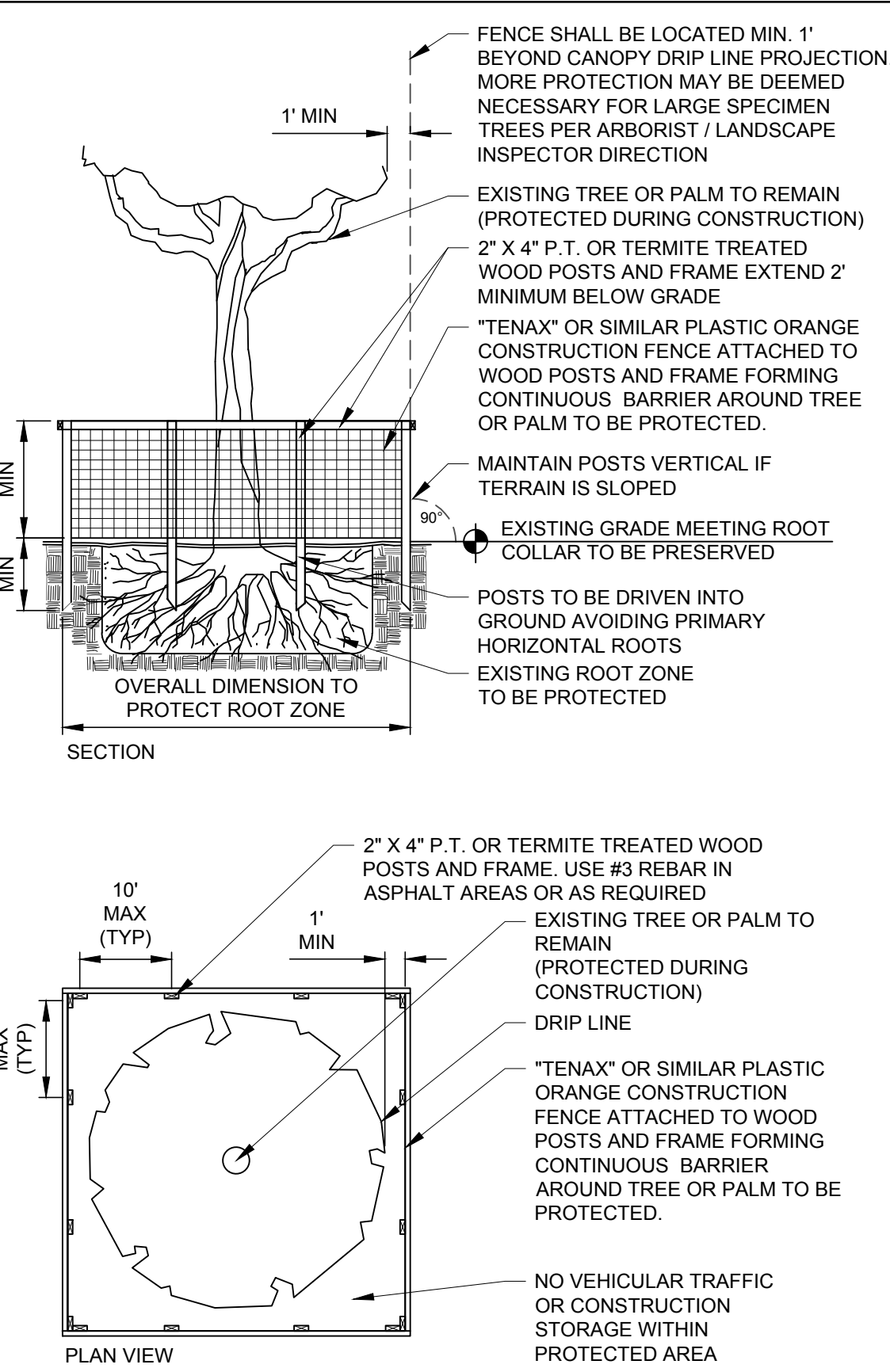
0 20 40

SCALE: 1"=20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

PROJECT # 09725.24 PROJECT NAME: 7 ELEVEN #34798, 16000 S. MILITARY TRAIL, DELRAY BEACH, FL									
TREE #	COMMON NAME	SCIENTIFIC NAME	DBH IN.	HT. FT.	CNPNY.	TREE % CONDITION	TREE DISPOSITION	COMMENTS	
1	Queen Palm	"Arecastrum romanzoffianum"		24	16	40	REMOVE	CO-N, penciling, weak head	
2	Queen Palm	"Arecastrum romanzoffianum"		20	16	40	REMOVE	CO-N, penciling, weak head	
3	Queen Palm	"Arecastrum romanzoffianum"		18	16	50	REMOVE	penciling, leaning/curved, weak head	
4	Mahogany	"Swietenia mahagoni"	16			50	REMAIN	OHE, CO-D, IB, B DMG, exposed roots	
5	Cabbage Palm	"Sabal palmetto"		20	10	50	REMAIN	CON	
6	Cabbage Palm	"Sabal palmetto"		20	10	60	REMAIN		
7	Cabbage Palm	"Sabal palmetto"		20	10	50	REMAIN	CON	
8	Cabbage Palm	"Sabal palmetto"		20	10	60	REMAIN		
9	Mahogany	"Swietenia mahagoni"	13	24	20	50	REMOVE	OHE, CO-D, IB, poor branching, exposed roots	
10	Gumbo Limbo	"Bursera simaruba"	3	10	6	50	REMOVE	CO-D, W CPY	
11	Mahogany	"Swietenia mahagoni"	21	35	28	50	REMOVE	CO-D, IB, B DMG, large broken branches	
12	Cabbage Palm	"Sabal palmetto"		20	10	65	RELOCATE		
13	Cabbage Palm	"Sabal palmetto"		22	10	65	RELOCATE		
14	Cabbage Palm	"Sabal palmetto"		18	10	50	RELOCATE	narrow base	
15	Mahogany	"Swietenia mahagoni"	10	30	20	50	REMOVE	OHE, CO-D, IB, W CPY, vertical/narrow branching	
16	Mahogany	"Swietenia mahagoni"	19	20	40	45	REMOVE	OHE, utility pruned, CO-D, IB, W CPY, poor form	
17	Mahogany	"Swietenia mahagoni"	18	20	30	45	REMOVE	CO-D, IB, B DMG, partial canopy, shaded by larger tree	
18	Mahogany	"Swietenia mahagoni"	23	35	40	60	REMAIN	OHE, w ater line, exposed roots, close to paving, B DMG	
19	Mahogany	"Swietenia mahagoni"	20	35	22	50	REMAIN	OHE, CO-D, IB, w ater line, exposed roots, close to paving, poor branching	
20	Mahogany	"Swietenia mahagoni"	13	30	20	50	REMAIN	OHE, w ater line, close to paving, T DMG, CO-D, IB, B DMG	
21	Mahogany	"Swietenia mahagoni"	12	25	18	45	REMAIN	OHE, w ater line, T DMG, close to paving, CO-D, IB, poor branching	
22	Silver Trumpet	"Tabebuia caribaea"	13	20	20	40	REMOVE	OHE, w ater line, close to paving, B DMG	
23	Silver Trumpet	"Tabebuia caribaea"	15	16	22	50	REMOVE	OHE, w ater line, close to paving	
24	Mahogany	"Swietenia mahagoni"	14	28	20	40	REMOVE	OHE, w ater line, CO-D, IB, B DMG, W CPY, poor branching	
25	Bottle Brush	"Callistemon viminalis"	8	8	4	30	REMOVE	poor branching, no canopy (shaded), broken trunk	
26	Mahogany	"Swietenia mahagoni"	18	32	25	40	REMOVE	B DMG, poor branching	
27	Mahogany	"Swietenia mahagoni"	5	14	6	30	REMOVE	CO-D, IB, W CPY, poor form, (shaded)	
28	Mahogany	"Swietenia mahagoni"	6	15	7	30	REMOVE	T DMG, B DMG, W CPY, poor form, (shaded)	
29	Mahogany	"Swietenia mahagoni"	14	22	25	40	REMOVE	T DMG, B DMG, W CPY, poor branching	
30	Bottle Brush	"Callistemon viminalis"	4	10	4	30	REMOVE	poor branching, no canopy (shaded)	
31	Queen Palm	"Arecastrum romanzoffianum"		20	12	20	REMOVE	T DMG, severe leaning, weak head	
32	Christmas Palm	"Veitchia merillii"		16	10	80	REMAIN	triple trunk	
33	Christmas Palm	"Veitchia merillii"		16	10	80	REMAIN	triple trunk	
34	Christmas Palm	"Veitchia merillii"		16	10	80	REMAIN	triple trunk	
35	Black Olive	"Bucida buceras"	17	40	20	60	REMOVE	T DMG, B DMG, partial canopy	
36	Black Olive	"Bucida buceras"	10	18	18	50	REMOVE	CO D, IB, T DMG, sucker growth, partial canopy	
37	Black Olive	"Bucida buceras"	21	28	35	45	REMOVE	CO D, IB, T DMG, B DMG, partial canopy	
38	Black Olive	"Bucida buceras"	20	30	35	50	REMOVE	CO D, IB, T DMG, B DMG, partial canopy	
39	Live Oak	"Quercus virginiana"	22	25	35	50	REMOVE	CO D, IB, small root area, close to paving, B DMG, shared canopy	
40	Live Oak	"Quercus virginiana"	21&17	28	35	60	REMOVE	CO D, B DMG, low lateral branch, fungal corks, shared canopy	
41	Queen Palm	"Arecastrum romanzoffianum"		24	15	50	REMOVE	T DMG, leaning	

Tree Mitigation Table	
55 "	Total DBH to be removed (greater than 50% condition rating)
19	Total Trees to be removed (50% condition rating or less)
Replacement Trees	
55 "	Total Caliper inches proposed (10 - 4" caliper trees)



TEMPORARY TREE PROTECTION DETAIL

PLAN / SECTION

NOT TO SCALE



PH: (954) 788-3400

Florida Certificate of Authorization # - 7928

BID / CONTRACT NO. :

REVISIONS

NO.	DESCRIPTION	DATE
1	SITE PLAN REVISION	01/11/19

**PRELIMINARY PLAN NOT FOR CONSTRUCTION**  
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#34798  
16000 S. MILITARY TRAIL  
DELRAY BEACH, FL 33484

SCALE: AS NOTED  
DATE ISSUED: FEBRUARY 2018  
DRAWN BY: SR  
DESIGNED BY: MP  
CHECKED BY: MP

MICHAEL J. PHILLIPS, RLA  
FLORIDA REG. NO. LA0001540  
(FOR THE FIRM)

SHEET TITLE  
**TREE DISPOSITION PLAN**

SHEET NUMBER  
**LD-101**

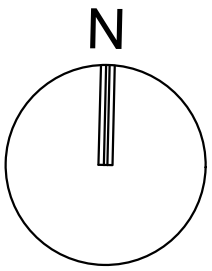
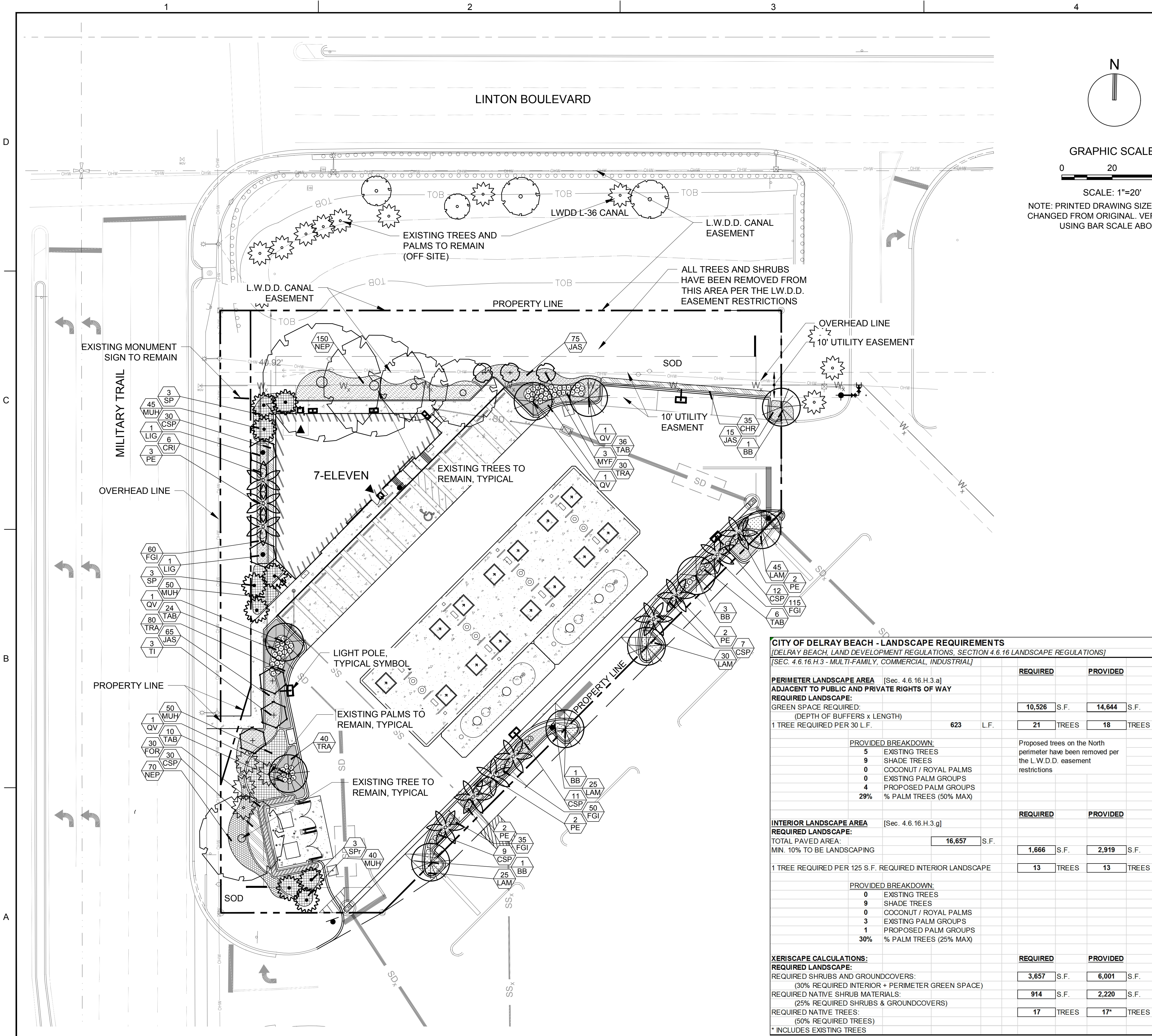
SHEET of 27

PROJECT NO. 09725.24

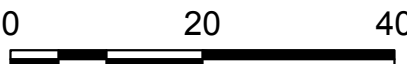


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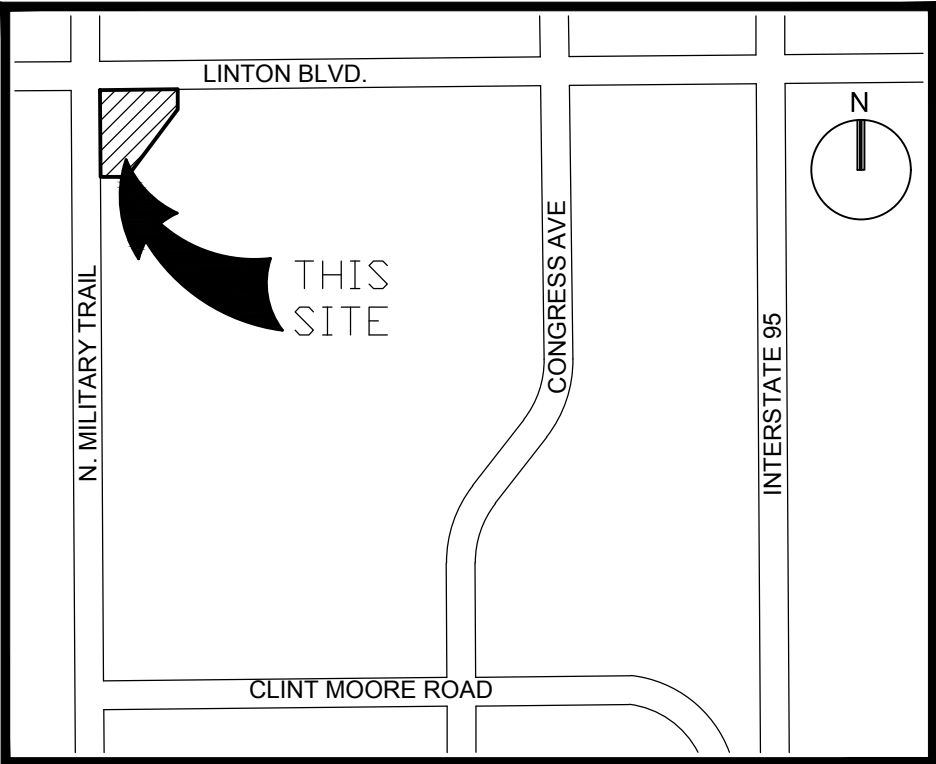


GRAPHIC SCALE



SCALE: 1"=20'

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LOCATION SKETCH

NOT TO SCALE

PLANT LIST

TREES AND PALMS		
KEY	QUANTITY	PLANT NAME AND SPECIFICATION
** BB	6	Bucida buceras 'Shady Lady' (Black Olive) 16' ht., 7' spr., 4" c., full canopy
** LIG	2	Ligustrum japonicum (Japanese Privet) 12' ht., 5' spr., 3" c., full canopy
** PE	11	Ptychosperma elegans (Solitaire Palm) 12'-14' c.t. hts., staggered, single
** N QV	4	Quercus virginiana (Live Oak) 16' ht., 7' spr., 4" c., full canopy
** N SP	6	Sabal palmetto (Cabbage Palm) 12'-26' staggered d. hts.
** N Spr	3	Sabal palmetto (Cabbage Palm) Relocated from site
** TI	3	Tabebuia impetiginosa (Purple Trumpet) 12' ht., 6' spr., 3" c., full canopy

SHRUBS & GROUNDCOVERS		
KEY	QUANTITY	PLANT NAME AND SPECIFICATION
** N CHR	35	Chrysobalanus icaco (Cocoplum) 24" ht., 24" spr., full, 2' o.c.
CRI	6	Croton asiaticum (Croton Lily) 36" ht., 36" spr., full, triple
CSP	99	Codiaeum v. 'Sloppy Painter' (Yellow Croton) 20" ht., 20" spr., full, 2' o.c.
** FGI	260	Ficus m. 'Green Island' 12" ht., 14" spr., full, 18" o.c.
** N FOR	30	Foresiera segregata (Florida Privet) 9' ht., 30" spr., full, 2' o.c.
** JAS	155	Jasminum volubile (Wax Jasmine) 18" ht., 18" spr., full, 18" o.c.
** LAM	125	Lantana montivdensis (Trailing Lantana) 10" ht., 16" spr., full, 18" o.c.
** N MUH	185	Muhlenbergia capillaris (Muhly Grass) 24" ht., 24" spr., full, 3' o.c.
** N MYF	3	Myrcianthes fragrans (Simpson's Stopper) 8' ht., 5' spr., full canopy, multi-stem
** N NEP	220	Nephrolepis exalta (Sword Fern) 12" ht., 14" spr., 2' o.c.
TAB	76	Tabernaemontana spp. (Pinwheel Jasmine) 24" ht., 24" spr., full, 2' o.c.
** TRA	150	Trachelospermum asiaticum 'minima' (Asiatic Jasmine) 12" ht., 14" spr., 12" o.c.

- N DENOTES NATIVE SPECIES  
\*\* DENOTES HIGH DROUGHT TOLERANT SPECIES  
\* DENOTES MODERATE DROUGHT TOLERANT SPECIES

NOTES

Sod to be St. Augustine 'Floratum', contractor to determine quantity.

All sod and landscape to receive 100% coverage with 50% overlap from an automatic irrigation system using an approved water source.

Bubblers to be provided for large trees and palms.

Contractor is responsible for all conditions and landscape specification attached to this plan and plant list. Plan and specifications shall be considered Contract Documents.

Pre-Construction meeting is required before any plant material is installed on site.

All road rock, concrete, asphalt and other non-natural material be removed and be replaced with planting soil prior to landscape installation.

Any trees or shrubs placed within water, sewer or drainage easements shall conform to the City of Delray Beach Standard Details; LD 1.1 and LD 1.2.

CITY OF DELRAY BEACH - LANDSCAPE REQUIREMENTS			
[DELAY BEACH, LAND DEVELOPMENT REGULATIONS, SECTION 4.6.16 LANDSCAPE REGULATIONS]			
[SEC. 4.6.16.H.3 - MULTI-FAMILY, COMMERCIAL, INDUSTRIAL]			
PERIMETER LANDSCAPE AREA [Sec. 4.6.16.H.3.a]		REQUIRED	PROVIDED
ADJACENT TO PUBLIC AND PRIVATE RIGHTS OF WAY			
REQUIRED LANDSCAPE:			
GREEN SPACE REQUIRED:		10,526	14,644
(DEPTH OF BUFFERS x LENGTH)			
1 TREE REQUIRED PER 30 L.F.		623	L.F.
PROVIDED BREAKDOWN:			
5 EXISTING TREES			
9 SHADE TREES			
0 COCONUT / ROYAL PALMS			
0 EXISTING PALM GROUPS			
4 PROPOSED PALM GROUPS			
29% % PALM TREES (50% MAX)			
Proposed trees on the North perimeter have been removed per the L.W.D.D. easement restrictions			
INTERIOR LANDSCAPE AREA [Sec. 4.6.16.H.3.g]		REQUIRED	PROVIDED
REQUIRED LANDSCAPE:			
TOTAL PAVED AREA:		16,657	S.F.
MIN. 10% TO BE LANDSCAPING		1,666	S.F.
1 TREE REQUIRED PER 125 S.F. REQUIRED INTERIOR LANDSCAPE		13	TREES
PROVIDED BREAKDOWN:			
0 EXISTING TREES			
9 SHADE TREES			
0 COCONUT / ROYAL PALMS			
3 EXISTING PALM GROUPS			
1 PROPOSED PALM GROUPS			
30% % PALM TREES (25% MAX)			
XERISCAPE CALCULATIONS:		REQUIRED	PROVIDED
REQUIRED LANDSCAPE:			
REQUIRED SHRUBS AND GROUNDCOVERS:		3,657	S.F.
(30% REQUIRED INTERIOR + PERIMETER GREEN SPACE)			
REQUIRED NATIVE SHRUB MATERIALS:		914	S.F.
(25% REQUIRED SHRUBS & GROUNDCOVERS)			
REQUIRED NATIVE TREES:		17	TREES
(50% REQUIRED TREES)			
* INCLUDES EXISTING TREES			



301 East Atlantic Boulevard  
Pompano Beach, FL 33060

PH: (954) 788-3400

Florida Certificate of  
Authorization # - 7928

BID / CONTRACT NO. :

REVISIONS

NO.	DESCRIPTION	DATE
1	SCREEN LP STORAGE	08/14/18
2	SITE PLAN REVISION	01/11/19
3	DUMPSTER RELOCATION	02/15/19

PRELIMINARY PLAN  
NOT FOR CONSTRUCTION

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16000 S. MILITARY TRAIL  
DELRAY BEACH, FL 33484

SCALE: AS NOTED

DATE ISSUED: FEBRUARY 2018

DRAWN BY: SR

DESIGNED BY: MP

CHECKED BY: MP

MICHAEL J. PHILLIPS, RLA  
FLORIDA REG. NO. LA0001540  
(FOR THE FIRM)

SHEET TITLE

LANDSCAPE  
PLAN

SHEET NUMBER

LP-101

SHEET of 27

PROJECT NO. 09725.24

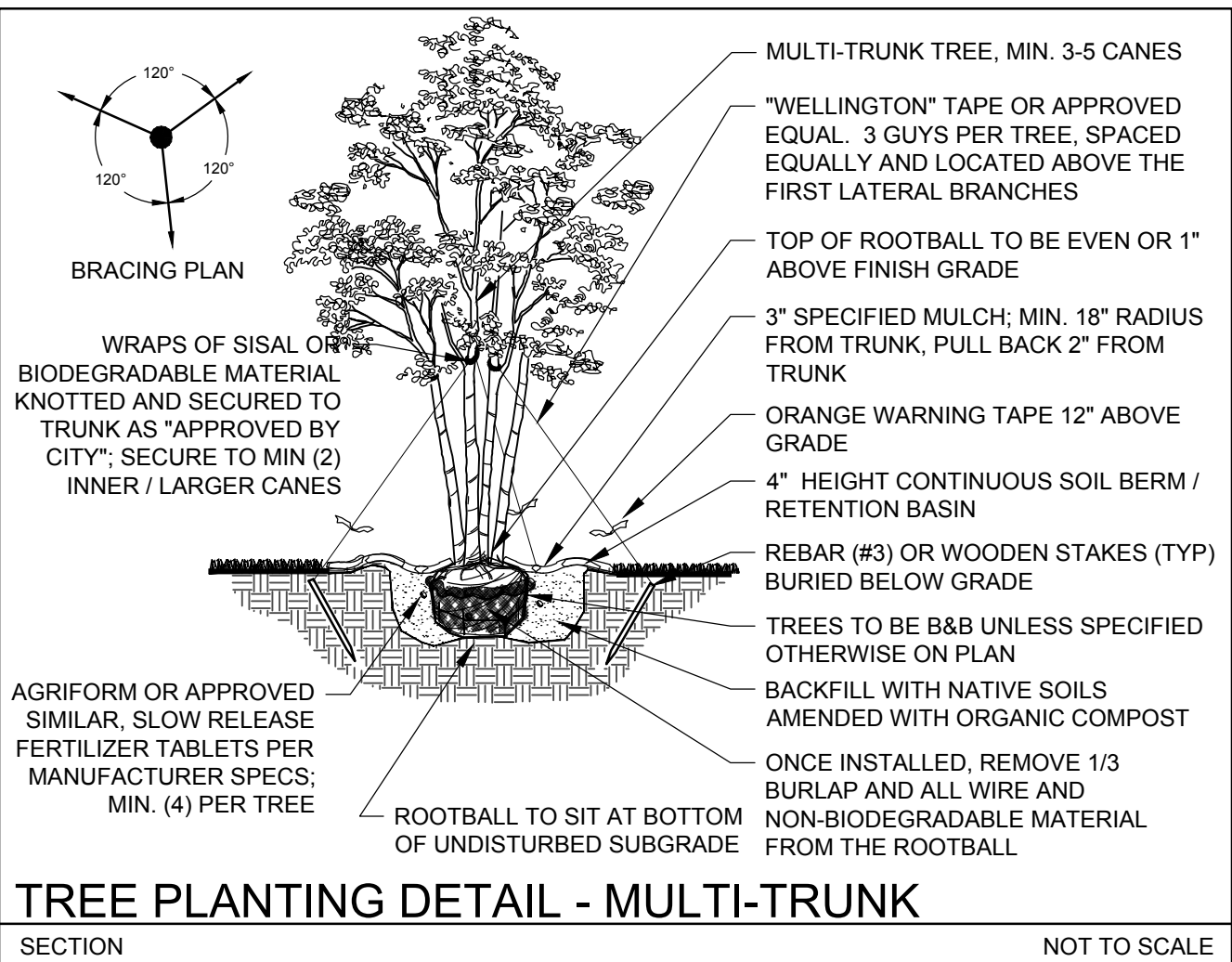
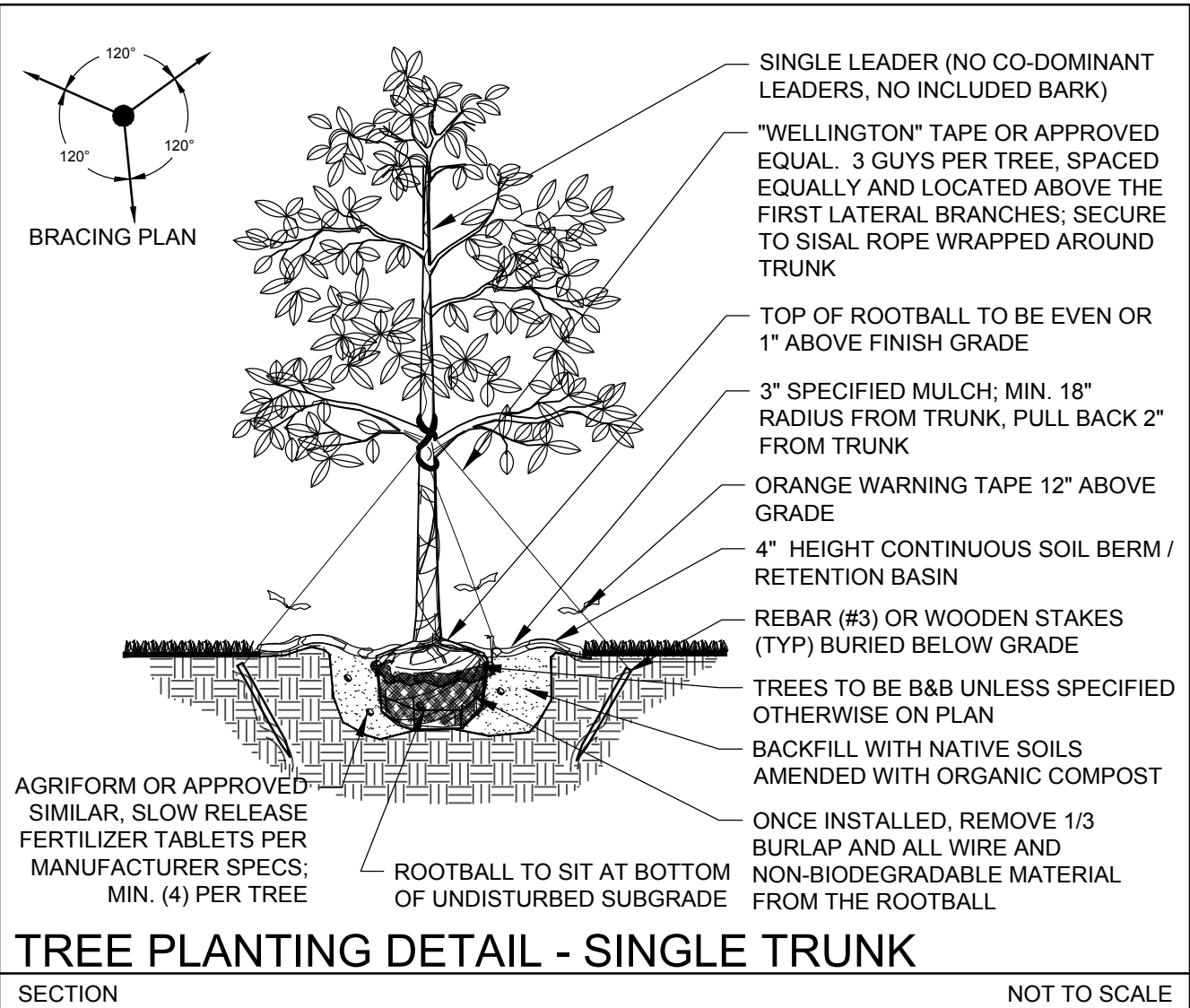
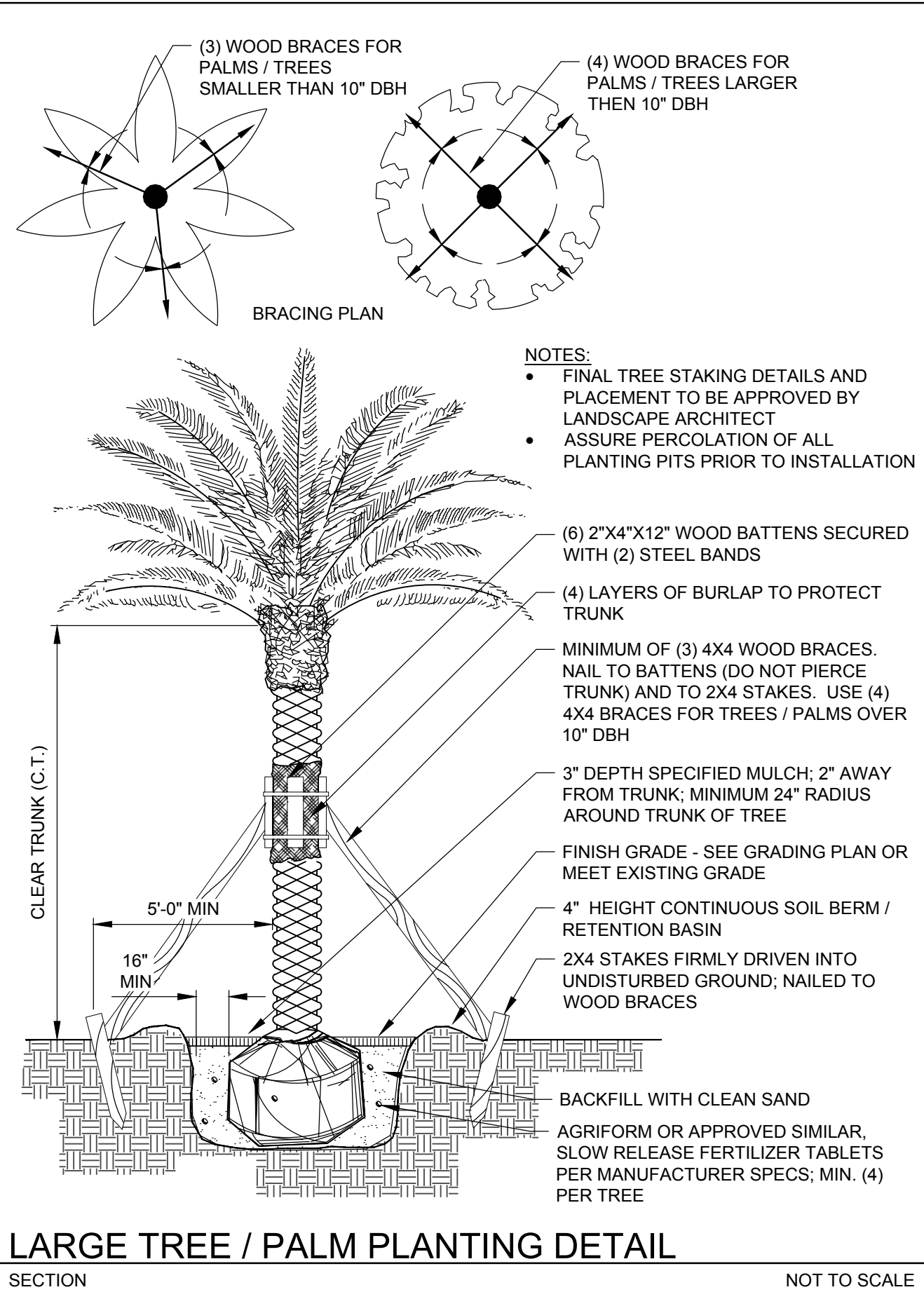
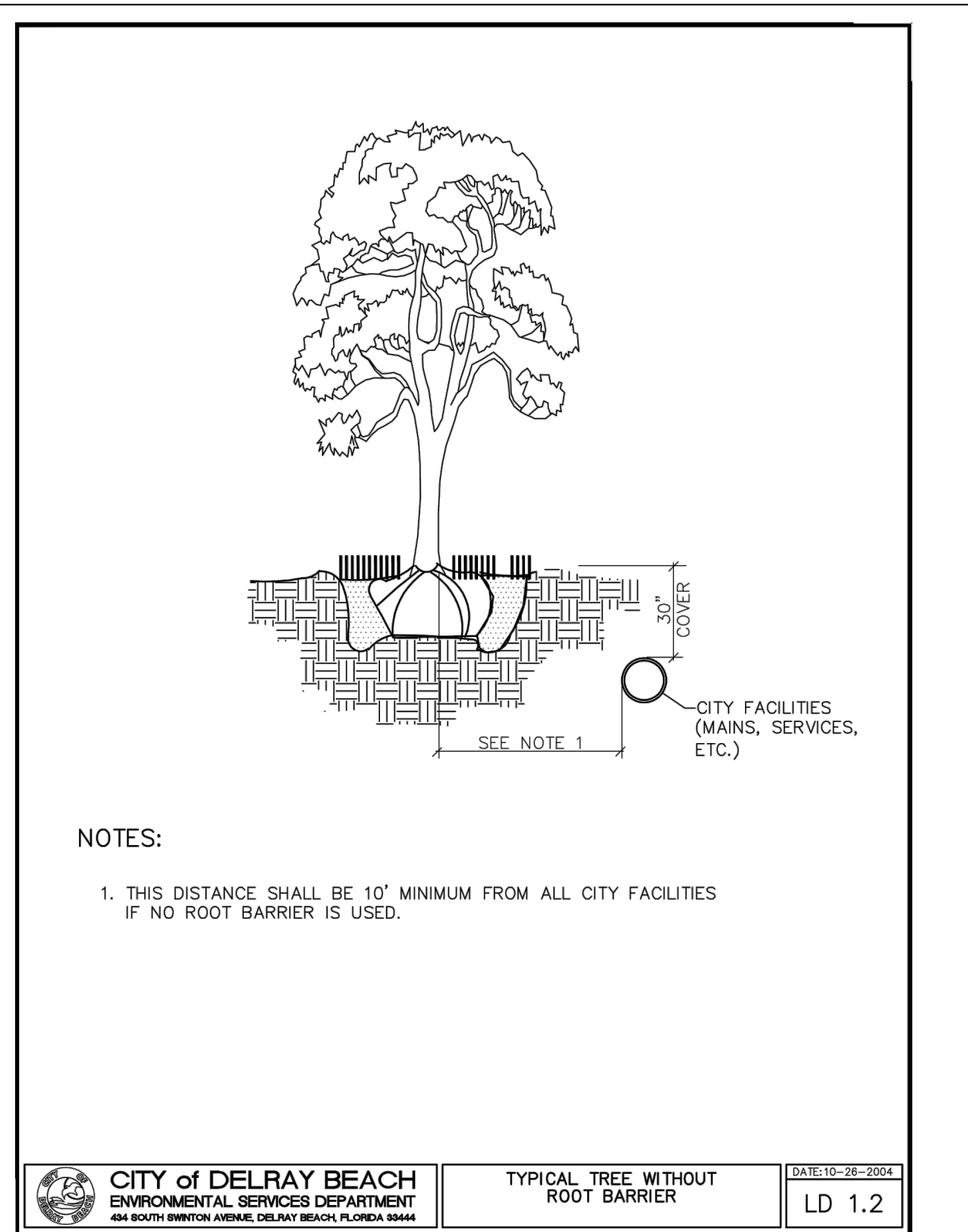
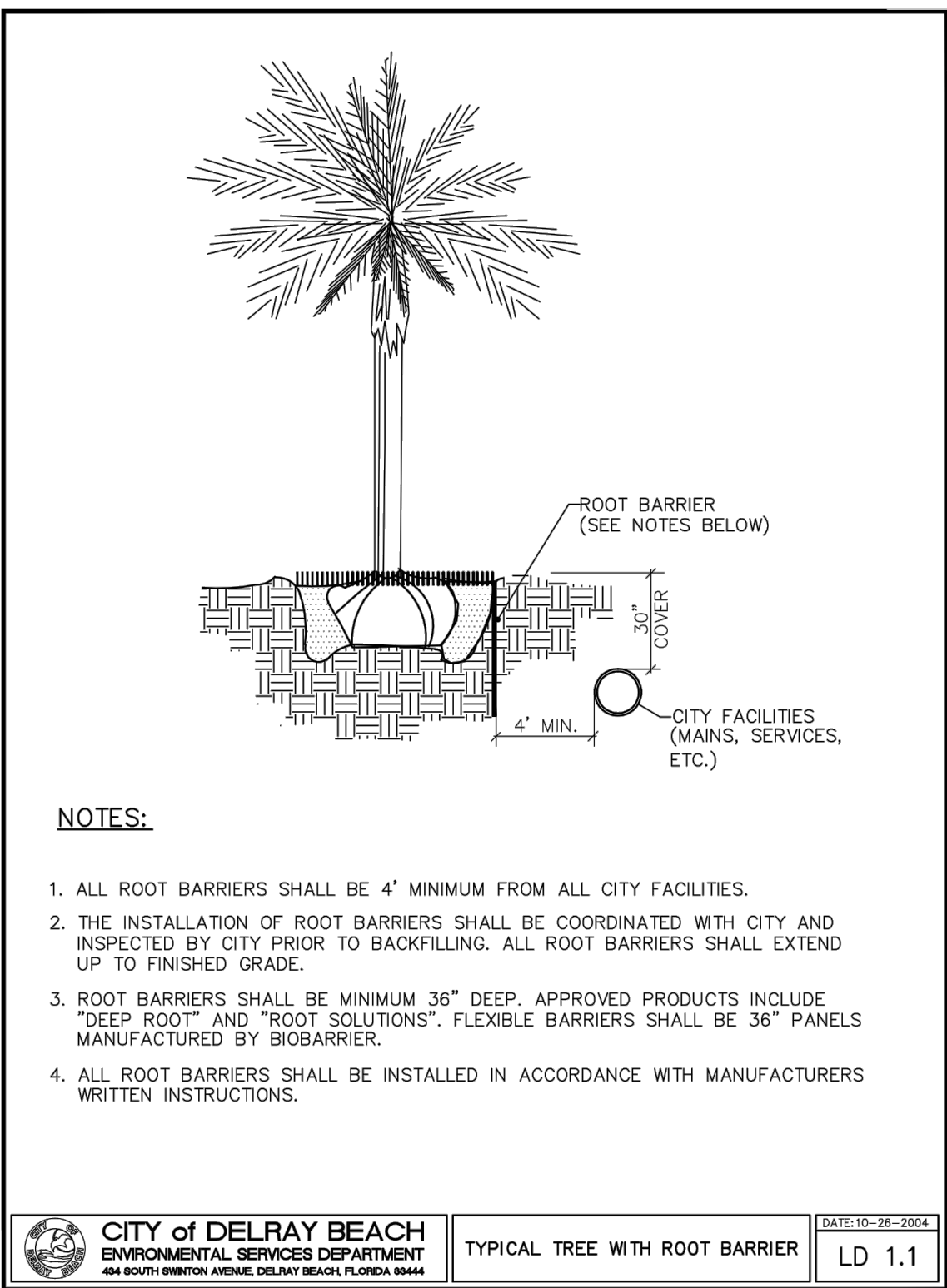
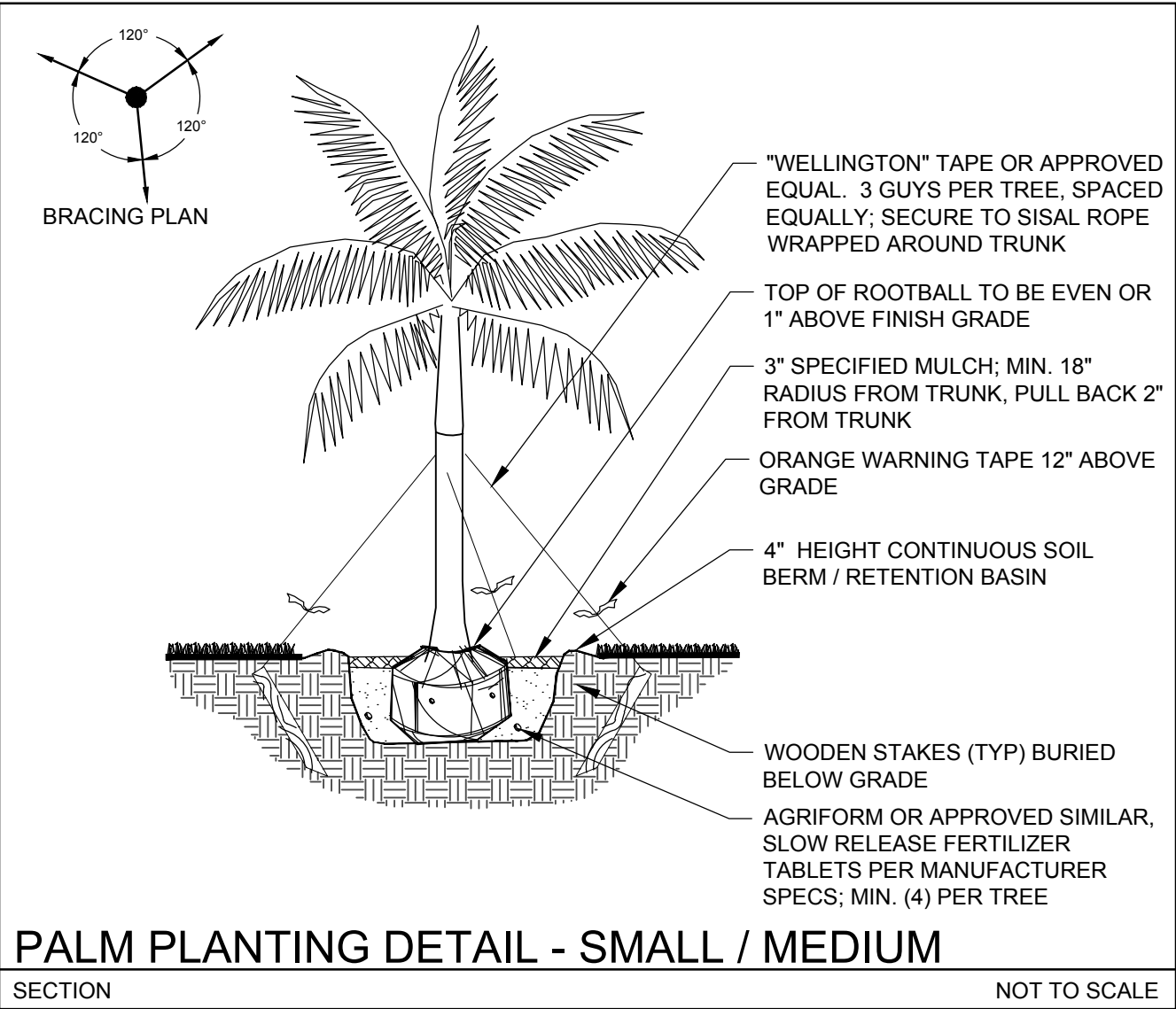
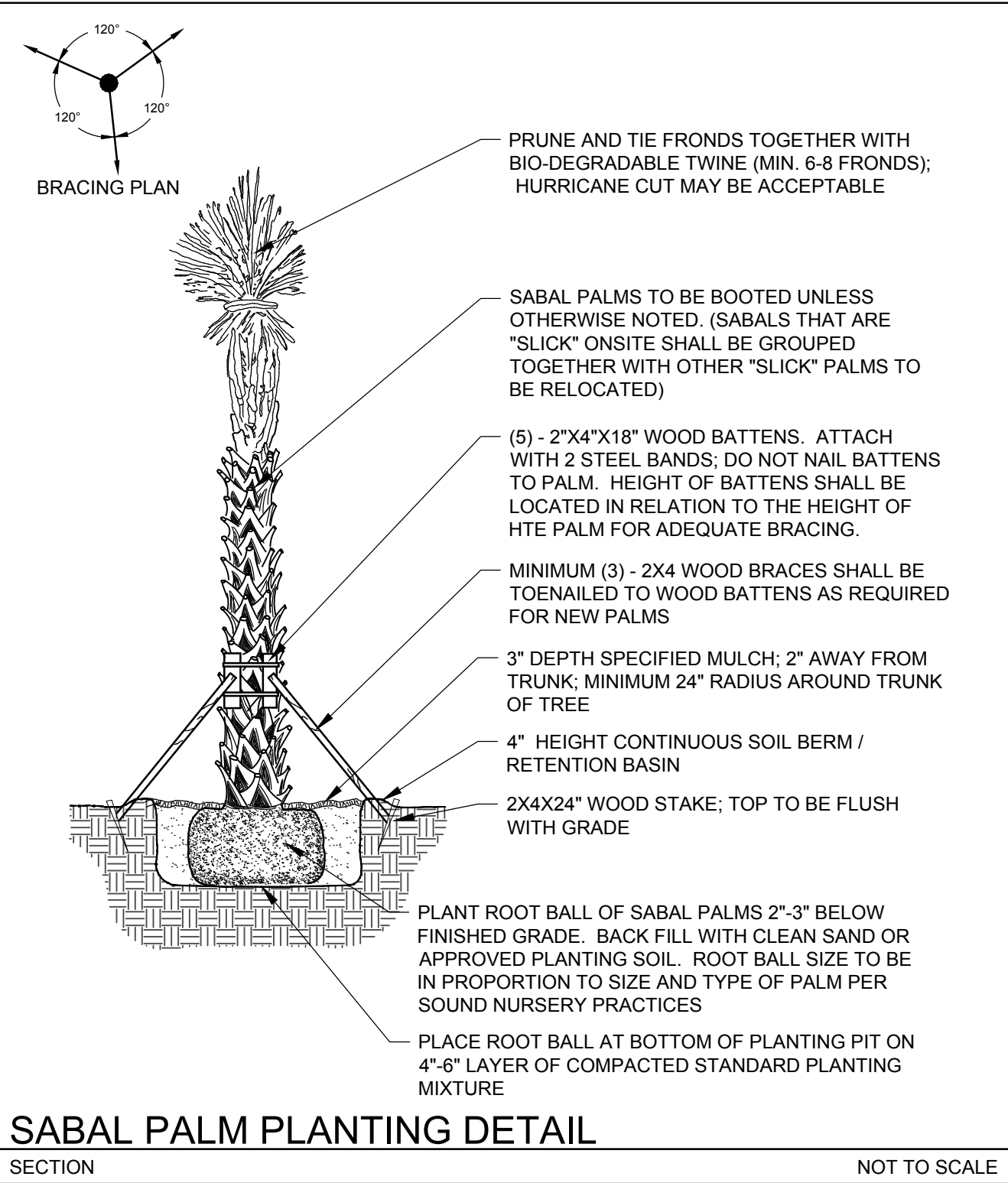
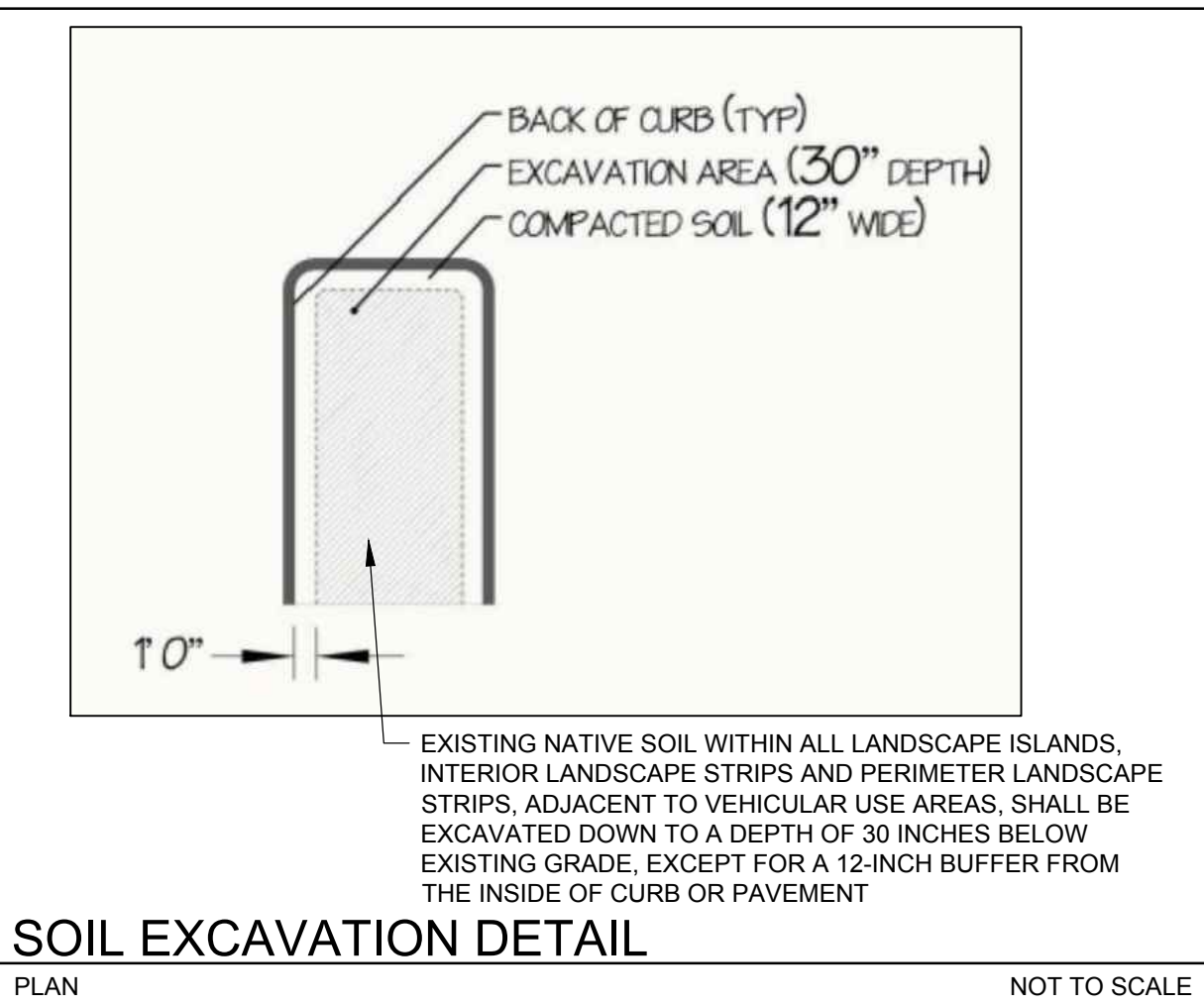


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SHRUB AND GROUNDCOVER PLANTING  
SECTION NOT TO SCALE

SHRUB AND GROUNDCOVER PLANTING  
PLAN NOT TO SCALE

LARGE TREE / PALM PLANTING DETAIL  
SECTION NOT TO SCALE

TREE PLANTING DETAIL - MULTI-TRUNK  
SECTION NOT TO SCALE

**KEITH & ASSOCIATES, INC.**  
consulting engineers

301 East Atlantic Boulevard  
Pompano Beach, Florida 33060-6643

2160 NW 82<sup>nd</sup> Avenue  
Doral, Florida 33122

PH: (954) 788-3400

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DRAWN BY: SR  
DESIGNED BY: MP  
CHECKED BY: MP

MICHAEL J. PHILLIPS, RLA  
FLORIDA REG. NO. LA0001540  
(FOR THE FIRM)

SHEET TITLE

LANDSCAPE  
DETAILS

SHEET NUMBER  
LP-501

SHEET of 12

PROJECT NO. 09725.24







IRRIGATION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL REQUIRED TO MAKE THE SYSTEM FUNCTION PROPERLY. ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ALSO STATE AND/OR LOCAL CODES.
2. IRRIGATION PLANS ARE SCHEMATIC AND DRAWN FOR GRAPHIC CLARITY. ALL PIPING BELOW PAVEMENT SHALL BE SLEEVED. LAYOUT OF IRRIGATION SYSTEM SHALL BE COORDINATED WITH CORRESPONDING LANDSCAPE PLAN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL UNDERGROUND UTILITY PROVIDERS TO VERIFY LOCATIONS. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO INSTALLATION AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
4. VALVE LOCATIONS ARE SCHEMATIC ONLY AND WILL BE ADJUSTED FOR SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A AMETEK OR CARSON VALVE BOX. THE FLOW ADJUSTMENT FEATURE WILL BE USED TO BALANCE PRESSURE THROUGHOUT THE SYSTEM.
5. PIPING SHALL BE SIZED TO MINIMIZE FRICTION LOSS AND MAINTAIN FLOW VELOCITY BELOW 5 FPS.
6. THE IRRIGATION CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PROPER GROUNDING EQUIPMENT AND SURGE PROTECTION SHALL BE PROVIDED. A RAIN SENSOR SHALL BE INSTALLED TO OVER-RIDE THE CONTROLLER.
7. ALL HEADS ON RISERS SHALL BE SET AT THE HEIGHT OF ADJACENT PLANT MATERIAL.
8. SPRINKLER LOCATIONS ADJACENT TO PAVEMENT, STRUCTURES, FENCES, ETC. SHALL BE OFFSET AS FOLLOWS: 12" MIN FOR POP-UP MIST HEADS, 18" FOR SHRUB RISERS, 18" FOR ROTOR HEADS, AND TYPICALLY 5 FEET FOR ROTORS ALONG UNCURBED ROADWAYS.
9. ALL SLEEVING SHALL BE SCH 40 PVC TO SIZE INDICATED ON PLAN, OR IF NOT INDICATED, A MIN. OF 2 PIPE SIZES LARGER THAN SUPPLY LINE CONTAINED. ALL SLEEVES SHALL BE INSTALLED A MIN. OF 24" BELOW FINISH GRADE.
10. CONTROL WIRES SHALL BE UL APPROVED PE IRRIGATION CONTROL WIRE. USE 14 GAGE CONTROL WIRE AND 12 GAGE GROUND WIRE. WIRE SHALL BE BUNDLED AND ATTACHED TO THE MAIN LINE IN TRENCH OR THROUGH WIRE SLEEVES AT PAVEMENT CROSSINGS 24" BELOW FIN. GRADE. ALL SPLICES SHALL BE MADE WITH WATERPROOF DIRECT-BURIAL SPLICE KITS AND CONTAINED IN VALVE BOXES. TWO EXTRA CONTROL WIRES SHALL BE INSTALLED TO THE FURTHEST VALVES IN EACH DIRECTION FROM THE CONTROLLER.

11. PIPING IN NARROW PLANTING AREAS, PARKING ISLANDS AND PLANTERS SHALL BE SET TO ONE SIDE TO ALLOW ROOM FOR ROOT BALLS. PIPE AS INDICATED ON PLAN IS SCHEMATIC AND SHOULD BE ADJUSTED FOR FIELD CONDITIONS.
12. ALL GLUE JOINTS SHALL BE CLEANED, SANDED, AND TREATED WITH A COLORED HIGH ETCH PRIMER AND JOINED USING A SOLVENT CONFORMING WITH ASTM D2564.
13. SYSTEM PIPE SIZE 3/4" SHALL BE CLASS 200 PVC; SYSTEM PIPE SIZE 1" OR GREATER SHALL BE CLASS 160 PVC. SYSTEM MAIN WILL BE SCH. 40 PVC TO SIZE INDICATED ON PLAN. ALL FITTINGS WILL BE SOLVENT WELD SCH 40 PVC. MAIN LINE SHALL HAVE 24" MINIMUM COVER; ALL OTHER PIPING WILL HAVE 12" MIN. COVER. ALL BACKFILL FOR PIPE TRENCHES SHALL BE CLEAN AND FREE OF FOREIGN DEBRIS AND SHARP OBJECTS; BACKFILLED TRENCHES SHALL BE PROPERLY COMPACTED. ALL MAIN LINES WILL BE INSTALLED A MIN. OF 3' FROM ANY TREE OR PALM.
14. WATERING TIME PER STATION WILL BE DETERMINED IN THE FIELD AND PER LOCAL REQUIREMENTS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PRECIPITATION RATES OF SPRINKLERS SPECIFIED.
15. IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE WITH 50% OVERLAP MIN. PROVIDE BUBBLERS FOR ALL NEW AND RELOCATED TREES AND PALMS.
16. RUST CONTROL SYSTEM TO BE INSTALLED WITH PUMP STATION (IF FROM WELL).
17. THE IRRIGATION SYSTEM IN THE RIGHT-OF-WAY IS TO INCORPORATE LOW TRAJECTORY SPRAY HEADS TO MINIMIZE OVERSPRAY.
18. AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE.

CITY OF DELRAY IRRIGATION REQUIREMENTS:

ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH A FULLY AUTOMATED SPRINKLER SYSTEM THAT WILL PROVIDE COMPLETE COVERAGE OF ALL PLANT MATERIALS AND GRASS TO BE MAINTAINED. ALL SYSTEMS SHALL BE DESIGNED TO ALLOW FOR HEAD-TO-HEAD COVERAGE. LOW-VOLUME IRRIGATION SYSTEMS, SUCH AS DRIP OR MICRO-IRRIGATION SYSTEMS, ARE STRONGLY ENCOURAGED.

1. WATERING RESTRICTIONS. THE LANDSCAPE IRRIGATION RESTRICTIONS SET FORTH BY THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), AS AMENDED, ARE HEREBY ADOPTED AND INCORPORATED AS IF SET FORTH.
2. IRRIGATION OF EXISTING PLANT COMMUNITIES. EXISTING PLANT COMMUNITIES AND ECOSYSTEMS, MAINTAINED IN A NATURAL STATE, DO NOT REQUIRE AND SHALL NOT HAVE ANY ADDITIONAL IRRIGATION WATER ADDED IN ANY FORM.
3. RE-ESTABLISHMENT OF NATIVE PLANT COMMUNITIES. NATIVE PLANT AREAS THAT ARE SUPPLEMENTS TO AN EXISTING PLANT COMMUNITY OR NEWLY INSTALLED BY THE DEVELOPER MAY INITIALLY REQUIRE ADDITIONAL WATER TO BECOME ESTABLISHED. THE WATER REQUIRED DURING THE ESTABLISHMENT PERIOD SHALL BE APPLIED FROM A TEMPORARY IRRIGATION SYSTEM, A WATER TRUCK OR BY HAND WATERING FROM A STANDARD HOSE BIB SOURCE.
4. IRRIGATION DESIGN STANDARDS AND PRACTICES. THE FOLLOWING STANDARDS SHALL BE CONSIDERED THE MINIMUM REQUIREMENTS FOR LANDSCAPE IRRIGATION DESIGN:

(a) ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH A FULLY AUTOMATED SPRINKLER SYSTEM THAT WILL PROVIDE COMPLETE COVERAGE OF ALL PLANT MATERIALS AND GRASS TO BE MAINTAINED. THE USE OF RECYCLED WATER IS ENCOURAGED.

(b) ALL NEW INSTALLATIONS OF LANDSCAPE IRRIGATION SYSTEMS AND SUBSTANTIAL MODIFICATIONS OF EXISTING IRRIGATION SYSTEMS WHICH USE WELL WATER, EXCLUDING SINGLE FAMILY RESIDENCES, SHALL INSTALL, OPERATE AND MAINTAIN RUST INHIBITOR EQUIPMENT TO PREVENT STAINING OF STRUCTURES AND PAVEMENTS.

(c) WHEREVER FEASIBLE, SPRINKLER HEADS IRRIGATION LAWNS OR OTHER HIGH WATER DEMAND LANDSCAPE AREAS SHALL BE CIRCUITED SO THEY ARE ON A SEPARATE ZONE OR ZONES FROM THOSE IRRIGATING TREES, SHRUBBERY OR OTHER REDUCED WATER REQUIREMENT AREAS.

(d) AUTOMATICALLY CONTROLLED IRRIGATION SYSTEMS SHALL BE OPERATED BY AN IRRIGATION CONTROLLER THAT IS CAPABLE OF WATERING HIGH WATER REQUIREMENT AREAS ON A DIFFERENT SCHEDULE FROM LOW WATER REQUIREMENT AREAS.

(e) SPRINKLER HEADS SHALL BE INSTALLED AND MAINTAINED SO AS TO MINIMIZE SPRAY UPON ANY PUBLIC ACCESS, SIDEWALK, STREET OR OTHER NON-PERVIOUS AREA.

(f) THE USE OF LOW TRAJECTORY SPRAY NOZZLES IS ENCOURAGED IN ORDER TO REDUCE THE EFFECT OF WIND VELOCITY ON THE SPRAY SYSTEM.

(g) THE USE OF LOW VOLUME OR DRIP SYSTEMS IS ENCOURAGED.

(h) ALL NEW INSTALLATIONS OF LANDSCAPE IRRIGATION SYSTEMS, AND MODIFICATIONS OF EXISTING SYSTEMS, SHALL BE EQUIPPED WITH A RAIN SENSING DEVICE WHICH WILL OVERRIDE THE IRRIGATION CYCLE OF THE SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. FURTHER, THESE RAIN SENSING DEVICES MUST BE OPERATED AND MAINTAINED FOR THE LIFE OF THE IRRIGATION SYSTEM.

(i) THE USE OF POP-UP SPRINKLER HEADS IS REQUIRED IN THE SWALE AREA BETWEEN THE PROPERTY LINE AND THE EDGE OF PAVEMENT OF THE ADJACENT RIGHT-OF-WAY TO MINIMIZE PEDESTRIAN HAZARD.

(j) THE PLANT PALETTE AND IRRIGATION SYSTEM SHALL BE APPROPRIATE FOR SITE CONDITIONS, TAKING INTO ACCOUNT THAT, IN SOME CASES, SOIL IMPROVEMENT CAN ENHANCE WATER USE EFFICIENCY.

(k) PLANTS SHALL BE GROUPED TOGETHER BY IRRIGATION DEMAND.

(l) THE PERCENTAGE OF LANDSCAPED AREA IN IRRIGATED HIGH WATER USE HYDROZONES SHOULD BE MINIMIZED. LANDSCAPE PLANS SHALL DEPICT THE DIFFERENT HYDROZONES AND IRRIGATE ACCORDING TO DEMAND.

(m) ALL IRRIGATION SYSTEMS SHALL MEET CURRENT BEST MANAGEMENT PRACTICES AS ESTABLISHED BY THE MOST CURRENT VERSION OF THE FLORIDA GREEN INDUSTRIES BEST MANAGEMENT PRACTICES HANDBOOK, INCLUDING THE UNIFORM DISTRIBUTION OF WATER THROUGHOUT ALL ZONES.



301 East Atlantic Boulevard  
Pompano Beach, Florida 33060-6643

2160 NW 82<sup>nd</sup> Avenue  
Doral, Florida 33122

PH: (954) 788-3400

Florida Certificate of  
Authorization # - 7928

BID / CONTRACT NO. :

REVISIONS

NO.	DESCRIPTION	DATE

PRELIMINARY PLAN  
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.



#34798  
16000 S. MILITARY TRAIL  
DELRAY BEACH, FL 33484

SCALE: AS NOTED

DATE ISSUED: FEBRUARY 2018

DRAWN BY: SR

DESIGNED BY: MP

CHECKED BY: MP

MICHAEL J. PHILLIPS, RLA  
FLORIDA REG. NO. LA0001540  
(FOR THE FIRM)

SHEET TITLE

IRRIGATION  
NOTES & DETAILS

SHEET NUMBER

LI-501

SHEET of 12

PROJECT NO. 09725.24

Drawing name: N:\09725.24 - 1-11 16000 S Military Trail Delray Beach - C:\projects\Landscaping\Architectural\09725.24-LI-501.dwg Layout Name: LI-501 Plotted on: Jun 11, 2018 - 2:26pm