

DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY COUNTY.

REGULAR LANDSCAPE MAINTENANCE SHALL BE PROVIDED FOR REPAIR OR REPLACEMENT, WHERE NECESSARY, OF ANY SCREENING OR BUFFERING REQUIRED AS SHOWN ON THIS PLAN. REGULAR LANDSCAPE MAINTENANCE SHALL BE PROVIDED FOR THE REPAIR OR REPLACEMENT OF REQUIRED WALLS, FENCES OR STRUCTURES TO A STRUCTURALLY SOUND CONDITION AS SHOWN ON THIS PLAN

NO TREE SHALL BE PLANTED WITHIN 5' OF EXISTING OR PROPOSED UTILITIES; CONTRACTOR TO FIELD VERIFY/ADJUST AS NECESSARY; CONTACT LANDSCAPE ARCHITECT PRIOR TO FIELD ADJUSTING TREE LOCATIONS FOR APPROVAL; ANY PROPOSED TREE WITHIN 6' OF ANY UNDERGROUND UTILITIES SHALL BE INSTALLED WITH ROOT PROTECTION BARRIERS; SEE L-2.4 FOR ROOT PROTECTION BARRIER DETAIL

NOTE: ALL ABOVE GROUND MECHANICAL EQUIPMENT SUCH AS, BUT NOT LIMITED TO, EXTERIOR UTILITY BOXES, METERS, AND TRANSFORMERS NOT CURRENTLY KNOWN OR DEPICTED SHALL BE VISUALLY SCREENED WITH LIVE GREENERY A MINIMUM OF 6" ABOVE TOP OF EQUIPMENT. BACK FLOW PREVENTERS SHALL BE PAINTED TO MATCH THE PRINCIPAL STRUCTURE.

ANY PERVIOUS AREA TO REMAIN THAT IS DISTURBED BY CONSTRUCTION & IS NOT NOTED ON THE LANDSCAPE PLAN TO HAVE SHRUBS OR GROUNDCOVER SHALL BE SODDED BY THE CONTRACTOR

NOTE: ALL LANDSCAPE AREAS SHALL BE IRRIGATED FROM A NON-POTABLE WATER SOURCE AND SHALL HAVE A 100% COVERAGE WITH A MIN. 50% OVERLAP.

MULCH MATERIAL TO A MINIMUM COMPACTED DEPTH OF 3 INCHES IS TO BE PROVIDED FOR ALL PLANTING AREAS WHEN USED TO SUPPLEMENT GROUND COVER. CYPRESS MULCH IS PROHIBITED IN ALL LANDSCAPED AREAS.

NO USE SHALL BE MADE OF, AND NO DEVELOPMENT ACTIVITY SHALL BE PERMITTED IN, LAND USE BUFFERS AND PERIMETER LANDSCAPE AREAS, EXCEPT FOR: i. PLANTING MATERIAL APPROVED AS PART OF THE LANDSCAPE PLAN; ii. COMPLETELY UNDERGROUND UTILITIES AND ESSENTIAL, SPECIFICALLY APPROVED, OVERHEAD OR ABOVEGROUND UTILITIES WHICH CROSS THESE AREAS AND DO NOT INTERFERE WITH THE MATURE GROWTH OF THE REQUIRED PLANT MATERIAL; iii. GRASS DITCHES, WITH BACK SLOPE NO STEEPER THAN 3V:1H, WHICH

ALL LANDSCAPING SHALL BE MAINTAINED FREE FROM DISEASE, PESTS, WEEDS & LITTER. MAINTENANCE SHALL INCLUDE WEEDING WATERING, FERTILIZING, PRUNING, MOWING, EDGING, MULCHING, OR OTHER MAINTENANCE, AS NEEDED & IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. PERPETUAL MAINTENANCE SHALL BE PROVIDED TO PROHIBIT THE REESTABLISHMENT OF HARMFUL EXOTIC SPECIES WITHIN

- 1. ALL DIMENSIONS SHOWN ARE SHOWN AT FACE OF CURB, UNLESS OTHERWISE ——NOTED. B/C INDICATES DIMENSION IS TO BACK OF CURB.
- 2. ALL RADII DIMENSIONS ARE 3' TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 3. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS,"
- 4. FREE STANDING SIGNAGE SHOWN ONLY FOR REPRESENTATIONAL PURPOSES, AND
- 6. RETENTION PONDS AND WETLAND AREAS WILL NOT BE FENCED, UNLESS REQUIRED
- ALL WORK WITHIN THE FDOT R.O.W. SHALL CONFORM TO THE STANDARD
- 8. MAINTENANCE OF TRAFFIC PLAN FOR WORK ZONES SHALL BE IN CONFORMANCE WITH ALL APPLICABLE INDICES OF THE FDOT DESIGN STANDARDS INDEX 600 SERIES ACCORDING TO THE TYPE OF ROADWAY AND TYPE OF WORK BEING PERFORMED.
- 9. ANY DAMAGED SIDEWALK OR CURB WITHIN THE FDOT R.O.W. SHALL BE REMOVED
- 10. ALL SIDEWALKS WITHIN THE FDOT R.O.W. SHALL COMPLY WITH FDOT STANDARD PLANS INDEX #522-001 AND BE CONSTRUCTED OF A MINIMUM 6" THICK FDOT CLASS I NON-STRUCTURAL 3,000 PSI CONCRETE WITH FIBER MESH. ALL TRUNCATED DOMES SHALL BE INSTALLED PER FDOT STANDARD PLANS INDEX #522-002.
- 11. ALL WORK REQUIRING LANE CLOSURES SHALL BE PERFORMED SUNDAY THROUGH
- 12. ALL DISTURBED AREAS WITHIN THE FDOT R.O.W. WILL BE SODDED.

C _G MS	16 4 12 7	Red Maple  Dahoon Holly  Lavender Crape Myrtle  Sweet Bay	Acer rubrum  Ilex cassine  Lagerstroemia indica `Tonto`  Magnolia virginiana
_G MS	7	Lavender Crape Myrtle	Lagerstroemia indica `Tonto`
MS MS2	7		
MS2		Sweet Bay	Magnolia virginiana
	2		
) 		Sweet Bay	Magnolia virginiana
PE	15	Slash Pine	Pinus elliotti var. densa
PE2	12	Slash Pine	Pinus elliotti var. densa
QV	3	Southern Live Oak	Quercus virginiana
QV2	3	Southern Live Oak	Quercus virginiana
ГР	5	Pink Tabebuia	Tabebuia pallida
CODE	QTY	COMMON NAME	BOTANICAL NAME
SP	26	Cabbage Palmetto	Sabal palmetto
CODE	QTY	COMMON NAME	BOTANICAL NAME
CAP	105	Jamaica Caper	Capparis cynophallophora
СНН	62	Red Tip Cocoplum	Chrysobalanus icaco `Red Tip`
MYR	260	Compact Simpson`s Stopper	Myrcianthes fragrans `compacta`
NOP	15	Pink Oleander	Nerium oleander `Hot Pink`
STA	174	Schefflera	Schefflera arboricola `Trinette`
ΓRN	189	Dwarf fakahatchee	Tripsacum floridanum
/BO	248	Walter`s Viburnum	Viburnum obovatum
	QTY	COMMON NAME	BOTANICAL NAME
	176	Red Tip Cocoplum	Chrysobalanus icaco `Red Tip`
HAC	300	Fire Bush	Hamelia patens `calusa`
мин	227	Pink Muhly Grass	Muhlenbergia capillaris
ZAM	327	Coontie	Zamia pumila
CODE	QTY	COMMON NAME	BOTANICAL NAME
DUR	82	Sky Flower	Duranta repens `Dwarf Golden`
LX	299	Dwarf Schillings Holly	llex vomitoria `Schillings Dwarf`
CODE	QTY	COMMON NAME	BOTANICAL NAME
		6" thick layer of 2" - 3" diamter stones	Rock Mix
			BOTANICAL NAME
			Stenotaphrum secundatum
	QV QV2 TP CODE SP CODE CAP CHH MYR MOP STA TRN MODE CHR MAC MUH ZAM CODE CHR AC CODE CHR AC CODE CHR AC CODE CHR CHR CHR CODE CHR	20V 3 20V2 3 20V2 3 20V2 3 20V2 3 20V2 3 20DE QTY 20DE QTY 20AP 105 20HH 62 20YR 260 20P 15 20TA 174 20R 176 20AR 176 20AR 176 20AR 227 20AM 327 20DE QTY 20UR 82 20DE QTY	Southern Live Oak  Southern Live

# FEMA MAP INFORMATION:

THE PROPERTY SHOWN HEREON APPEARS TO LIE IN FLOOD ZONE "X", ACCORDING TO THE FLOOD INSURANCE RATE MAP, COMMUNITY NUMBER 120161, PANEL NUMBER 0020, SUFFIX G EFFECTIVE MARCH 16, 2015, FOR MARTIN COUNTY, FLORIDA.

STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED AT THE SOUTHERN END

STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED AT THE NORTHERN END OF THE SURVEY CONTROL LINE SHOWN HEREON.

EL.: 11.88' (NAVD88)

OF THE SURVEY CONTROL LINE SHOWN HEREON. EL.: 14.35' (NAVD88)

SHEET NUMBER

1/30/24

PROJECT NO.

STER CAR WASH, JENSEN BEACH 1855 GOLDENROD RD.

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PLANT_S	SCHE	EDUL	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	CAL/DBH	HEIGHT	SPREAD	NATIVE	XERIC		REMARKS
+	AR	16	Red Maple	Acer rubrum	FG/B&B	2"Cal	10-12` Ht	5`	Yes	Medium		5` CT
{ + }	IC	4	Dahoon Holly	Ilex cassine	FG/B&B	2"Cal	10` Ht	5`	Yes	High		4' CT
+	LG	12	Lavender Crape Myrtle	Lagerstroemia indica `Tonto`	FG/B&B	3"Cal	14` Ht	7`	No	High		6` CT, STANDARD
**************************************	MS	7	Sweet Bay	Magnolia virginiana	FG/B&B	2"Cal	10` Ht	5`	Yes	High		4.5° CT
**************************************	MS2	2	Sweet Bay	Magnolia virginiana	FG/B&B	3" Cal	14` Ht	5-6`	Yes	High		5° CT
000000	PE	15	Slash Pine	Pinus elliotti var. densa	FG/B&B	3" Cal.	14` Ht	4`-5`	Yes	High		6° CT
THE INVESTIGATION OF THE PARTY	PE2	12	Slash Pine	Pinus elliotti var. densa	FG/B&B	2"Cal	10` Ht	4`-5`	Yes	High		5` CT
	QV	3	Southern Live Oak	Quercus virginiana	FG/B&B	2"Cal	10` Ht	5`	Yes	High		5` CT
+	QV2	3	Southern Live Oak	Quercus virginiana	FG/B&B	3" Cal.	14` Ht	5-6`	Yes	High		6` CT; Counted @1:2
+	TP	5	Pink Tabebuia	Tabebuia pallida	FG/B&B	2"Cal	10-12` Ht	4.5`	No	High		4` CT
PALM TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	CAL/DBH	HEIGHT	SPREAD	NATIVE	XERIC		REMARKS
	SP	26	Cabbage Palmetto	Sabal palmetto	FG/B&B		16-20` oa		Yes	High		Staggered; Booted; @3:1
SHRUBS	CODE	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC		REMARKS
0	CAP	105	Jamaica Caper	Capparis cynophallophora	n/a	As Shown	30"	24"	Yes	High		
+	СНН	62	Red Tip Cocoplum	Chrysobalanus icaco `Red Tip`	NA	30"	24"	18"	Yes	High		Full to base
•	MYR	260	Compact Simpson's Stopper	Myrcianthes fragrans `compacta`	NA	24"	24"	18-24"	Yes	High		Full to base
( <del>*)</del>	NOP	15	Pink Oleander	Nerium oleander `Hot Pink`	-	36"	5-6` Ht	3-4`	No	High		
· •	STA	174	Schefflera	Schefflera arboricola `Trinette`	NA	24"	18" - 24"	18"	No	High		full to base
0	TRN	189	Dwarf fakahatchee	Tripsacum floridanum	NA	24"	18"	18"	Yes	High		
•	VBO	248	Walter`s Viburnum	Viburnum obovatum	NA	24"	24"	18-24"	Yes	High		Full to base
SHRUB AREAS	CODE	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	SPACING	REMARKS
	CHR	176	Red Tip Cocoplum	Chrysobalanus icaco `Red Tip`	-	24"	18"	18"	Yes	High	24" o.c.	Full to base
	HAC	300	Fire Bush	Hamelia patens `calusa`	n/a	18"	24"	18"	Yes	High	18" o.c.	Full to base
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MUH	227	Pink Muhly Grass	Muhlenbergia capillaris	n/a	18"	24"	18"	Yes	High	18" o.c.	Full to base
	ZAM	327	Coontie	Zamia pumila	n/a	30"	10-12"	12"-14"	Yes	High	30" o.c.	
GROUND COVERS	CODE	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	SPACING	REMARKS
स्त्रवादावादादादादादादादादादादादादादादादादाद	DUR	82	Sky Flower	Duranta repens `Dwarf Golden`	n/a	18"	8-10"	10-12"	Yes	High	18" o.c.	
<u>પ્રતાનાનાનાનાનાનાનાનાનાનાનાનાનાનાનાનાનાનાન</u>	ILX	299	Dwarf Schillings Holly	Ilex vomitoria `Schillings Dwarf`	n/a	18"	8-10"	10-12"	Yes	High	18" o.c.	
MISCELLANEOUS	CODE	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	SPACING	REMARKS
	RIV	12,141 sf	6" thick layer of 2" - 3" diamter stones	Rock Mix	rock							colors to be dtermined
SOD/SEED	CODE	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	SPACING	REMARKS
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	COD	10,871 sf	St. Augustine Grass	Stenotaphrum secundatum	grass	5. 7.0		J. 1127D	No	Medium	21,7,01110	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, 300	10,01131	Jan Augustino Ordos	Stonesapmani occumulatum	9.400				140	IVIGUIUIII		

# LANDSCAPE CODE COMPLIANCE CHART

MARTIN COUNTY LAND DEVELOPMENT CODE

 GROSS SITE AREA:
 76,230 sq.ft. (100%) (1.75 AC)

 TOTAL VUA:
 40.576 sq.ft. (53.2%) (0.93 AC)

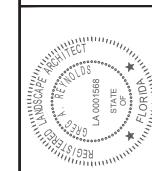
 TOTAL OPEN AREA:
 27,594 sq. ft. (36.2%) (0.63 AC)

 BUILDING AREA:
 5,430 sq.ft. (7.1%) (0.12 AC)

N 15 - LANDSCAPING	, BUFFERING AND TREE PROTECTION		REQUIRED	PROVIDED
	SCAPE DESIGN STANDARDS: VUA & BUFFER PLAN	TING		
	um 20% of Total Lot Area to be Landscape Area		20%	≥20%
,	ular Use Area -10' Strip Around Perimeter of Vehicular Us			
<u>US Hi</u>	ghway 1 Buffer 30' Type 3 Bufferyard (197.82 l.f.; 5,934.6	o sq.ft.)	00 TDEE0	00 70550
	a.3) 1 Tree/300 sq.ft, 100% native, min 14' hts, 3" cal.		20 TREES	20 TREES
	a.4) 34 Shrubs/300 sq.ft., 24" ht		673 SHRUBS	741 SHRUB
	a.5) 100% Minimum Native Within Buffer Strip		(20 TREES)	(≥x TREES)
<u>East</u>				
	a.3) 1 Tree/30 I.f. of VUA (206.69 I.f. vua perimeter)		7 TREES	7 TREES
	a.4) Shrubs, ≥23" spread @ max. 60" on center, 24" from	m pavement	42 SHRUBS	92 SHRUBS
	a.5) 25% Minimum Native Within Buffer Strip		(2 TREES)	(≥2 TREES)
North				
	a.3) 1 Tree/30 l.f. of VUA (284.75 l.f. vua perimeter)		10 TREES	10 TREES
	a.4) Shrubs, ≥23" spread @ max. 60" on center, 24" from	m pavement	57 SHRUBS	135 SHRUBS
	a.5) 25% Minimum Native Within Buffer Strip	·	(3 TREES)	(≥3 TREES)
South				
	a.3) 1 Tree/30 l.f. of VUA (275 l.f. vua perimeter)		10 TREES	10 TREES
	a.4) Shrubs, ≥23" spread @ max. 60" on center, 24" from	m pavement	55 SHRUBS	125 SHRUBS
	a.5) 25% Minimum Native Within Buffer Strip	1	(3 TREES)	(≥3 TREES)
	,			
4.b) VUA I	nteriors	VUA Interior Trees	24 Trees	24 Trees
b.1)	500 sq.ft. of planting area/5000 sq.ft. of VUA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2	2
•	40,576 / 5000 = 8.1152		$\wedge \wedge \wedge \wedge$	
	8.1152 x 500 sq.ft. = 4,057.6 sq.ft.			
	Total Required VUA Interior Green: 4,057.6 sq. ft.		4,057.6 SF	13,995 SF
b.2)	Terminal Islands - 1 Tree/Island (2 Islands)		2 TREES	2 TREES
b.3)	Interior Medians - 1 Tree/30 I.f. (113 I.f.)		4 TREES	4 TREES
b.4)	Landscape Interior Islands - 1 Tree.Island (1 Island	s)	1 TREES	1 TREES
SEC. 4.663.A.3.b. LAND	SCAPE DESIGN STANDARDS: DEVELOPED AREA PL	ANTING		
Non-re	esidential developments provide ≥ 1Tree / 2500 SF site a	area (76,230 lf/2500)	31 TREES	31 TREES
76,230	Osf Development Area			
SEC. 4.663 WATE	R EFFICIENT LANDSCAPING			
	um 50 pts Required	l	50 Points	50 Points
,	a. Utilization of moisture-sensing controller other than	a rain-sensor		5 Points
	b. Plan submitted with low, moderate and high water u			5 Points
	e. 25% to 50% of the required shrubs are made up of	-		5 Points
	f. 51% or more of required shrubs are drought tolerar			10 Points
	h. 51% or more of required trees are drought tolerant	•		10 Points
	I. Utilization of compacted mulch beds at least 3" dee	•		10 Points
	m. Utilization of Mulch			5 Points
		TOTAL VUA & BUFFER PLANTING	47 TREES	47 TREES
		TOTAL DEVELOPED AREA PLANTING	85 TREES	85 TREES
		75% NATIVE TREES	64/85 TREES	68/85 TREES (8
		75% NATIVE SHRUBS	621/827 SHRUBS	1351/1540 SHRUBS

ALL TREES SHALL BE SINGLE LEADER FLORIDA NUMBER 1, FIELD GROWN/BALLED & BURLAPPED (FG/BB); CONTAINER GROWN TREES ARE NOT ACCEPTABLE & WILL BE IMMEDIATELY REJECTED UPON INSPECTION. ALL PLANT MATERIALS SHALL MEET THE MINIMUM SPECIFICATIONS LISTED IN THE SCHEDULE ABOVE; FAILURE TO MEET SPECIFICATIONS, INCLUDING SPECIES LISTED, SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY - NO EXCEPTIONS; OPTIONS FOR ALTERNATE SPECIES BASED ON LACK OF STATEWIDE AVAILABILITY SHALL BE FURNISHED TO LANDSCAPE ARCHITECT OF RECORD A MINIMUM OF 30 DAYS BEFORE COMMENCEMENT OF CONSTRUCTION; LACK OF AVAILABILITY WILL BE VERIFIED USING THE LATEST INDUSTRY ACCEPTED PUBLICATION LISTINGS PLANT SPECIES, SIZES, & QUANTITIES SHALL, AT A MINIMUM, CONFORM TO THOSE INDICATED ON THE DRAWINGS. IN THE AREAS SPECIFIED ON THE DRAWINGS.

REVISED PER COUNTY COMMENTS 1/30/24
REVISIONS DATE



AS NOTED
DESIGNED BY
GR
DRAWN BY
CHECKED BY

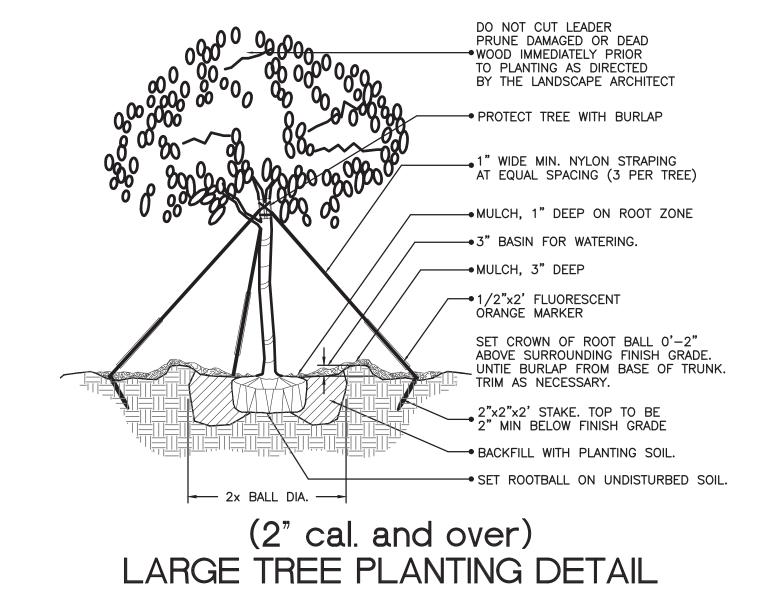
West Jensen PUD, Phase TE Parcel 6.6 PLANT LIST &

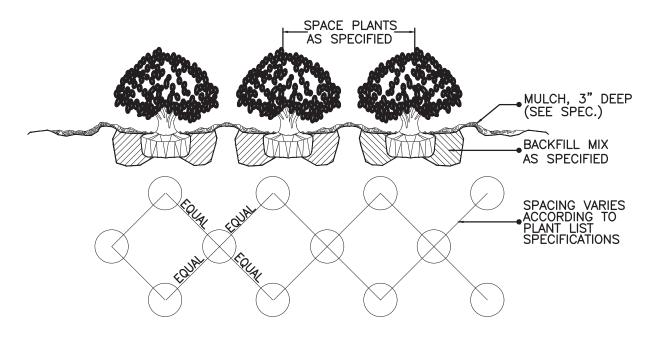
MISTER CAR WASH AT JENSEN BEACH 1855 GOLDENROD RD.

DATE
1/30/24

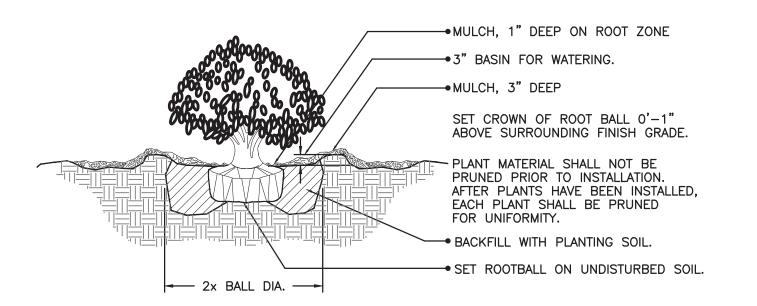
PROJECT NO.

SHEET NUMBER





SHRUB / GROUNDCOVER SPACING / PLANTING DETAIL

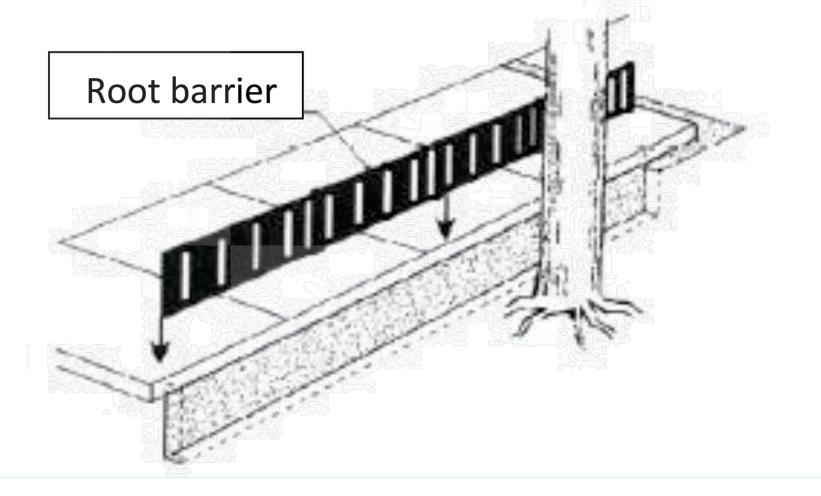


SHRUB PLANTING DETAIL

Write the following root barrier specifications\* on each copy of the plan drawing, or attach a copy of this sheet.

- 1. Panels of 0.085" thick polypropylene
- 2. Zipper joining system
- 3. Rounded edges
- 4. 24" depth
- 5. Anti-lift pads

\*Contact the Landscape Division if you propose an equivalent root barrier option.



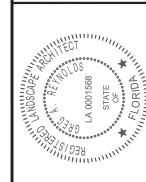
ALL TREES SHALL BE SINGLE LEADER FLORIDA NUMBER 1, FIELD GROWN/BALLED & BURLAPPED (FG/BB); CONTAINER GROWN TREES ARE NOT ACCEPTABLE & WILL BE IMMEDIATELY REJECTED UPON INSPECTION. ALL PLANT MATERIALS SHALL MEET THE MINIMUM SPECIFICATIONS LISTED IN THE SCHEDULE ABOVE; FAILURE TO MEET SPECIFICATIONS, INCLUDING SPECIES LISTED, SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY - NO EXCEPTIONS; OPTIONS FOR ALTERNATE SPECIES BASED ON LACK OF STATEWIDE AVAILABILITY SHALL BE FURNISHED TO LANDSCAPE ARCHITECT OF RECORD A MINIMUM OF 30 DAYS BEFORE COMMENCEMENT OF CONSTRUCTION; LACK OF AVAILABILITY WILL BE VERIFIED USING THE LATEST INDUSTRY ACCEPTED PUBLICATION LISTINGS PLANT SPECIES, SIZES, & QUANTITIES SHALL, AT A MINIMUM, CONFORM TO THOSE INDICATED ON THE DRAWINGS, IN THE AREAS SPECIFIED ON THE DRAWINGS.

REVISED PER COUNTY COMMENTS

ALOHA PACIFICA LL

LANDSCAPE ARCHITECTURE + WATER FEATUR
311 CORTLAND AVENUE WINTER PARL, FLORIDA 32789
07) 617-8998 OFFICE ALOHAPACIFICALLC@EMBARQMAIL





DESIGNED BY
GR
DRAWN BY
BW

West Jensen PUD, Phase 1B Parcel 6.6 LANDSCAPE DETAILS

NSEN BEACH
SEGLDENROD RD.

DATE 1/30/24 PROJECT NO.

SHEET NUMBER

L-1.2

### A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS CONTRACT UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

### B. PROTECTION OF EXISTING STRUCTURES

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

### C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS, EXISTING OR OTHERWISE, CAUSED BY CARELESS OPERATION OF EQUIPMENT, STOCKPILING OF MATERIALS, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP - LINE OR THE SPILLING OF OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP – LINE.

2. NO MATERIALS SHALL BE BURNED WHERE THE HEAT WILL DAMAGE ANY PLANT, TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS (\$100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY PERCENT (20%) PER INCH OVER FOUR INCHES (4") CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES, OR AS MAY BE REQUIRED BY THE REGULATING GOVERNMENT AGENCY, WHICHEVER IS GREATER. CALIPER SHALL BE MEASURED AT BREAST HEIGHT OR FOUR FEET (4') ABOVE SURROUNDING GROUND.

### D. MATERIALS

1. SUBMITTALS: GENERAL SAMPLES OF PLANTING MATERIALS AS LISTED BELCW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER. UPON APPROVAL OF SAMPLES, DELIVERY OF MATERIALS MAY BEGIN.

MATERIALS SAMPLE SUBMITTALS MULCH ONE (1) CUBIC FOOT TOPSOIL ONE (1) CUBIC FOOT

PLANTS ONE (1) REPRESENTATIVE SAMPLE OF EACH VARIETY

### 2. PLANT MATERIALS

A) GENERAL: PLANT SPECIES, SIZES, & QUANTITIES SHALL, AT A MINIMUM, CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH "GRADES AND STANDARDS FOR NURSERY PLANTS" PARTS I AND II, LATEST EDITION PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA NO. 1 AS AN ABSOLUTE MINIMUM UNLESS OTHERWISE SUPERSEDED BY A FLORIDA FANCY DESIGNATION, AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL – BRANCHED AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE, AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE OWNER.

B) MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE TOP OF ROOT BALL (TRUNK FLARE) AND/OR ACROSS THE AVERAGE SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C) INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH PRELIMINARY APPROVAL SHALL NOT SUPERSEDE THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. PRESENCE OF INSECTS, AND OTHER CONDITIONS THAT MAY HAVE OCCURRED SINCE THE NURSERY INSPECTION. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

D) AMENDED PLANTING SOIL: PLANTING SOIL FOR USE IN BACK FILLING PLANTING HOLES SHALL BE FORTY PERCENT (40%) TOPSOIL AND SIXTY PERCENT (60%) SAND AND BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL-DRAINED, ARABLE SITE. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND SHALL BE FREE FROM HEAVY CLAY, COARSE SAND, STONES, LIME, LUMPS, PLANTS, ROOTS OR OTHER FOREIGN MATERIALS, OR NOXIOUS WEEDS. IT SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. PH RANGE SHALL BE 5.0 TO 7.0 INCLUSIVE.

E) SAND SHALL BE CLEAN, WELL DRAINING NATIVE SAND. IF REQUESTED, CONTRACTOR SHALL AT ANY TIME AND AT NO COST TO OWNER, SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY OWNER.

## E. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE GROWTH OF PLANTS AND SHALL NOT CONTAIN HARMFUL NATURAL OR MAN – MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SUCH SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

1. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA; IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS. FIFTY PERCENT (50%) OF THE NITROGEN SHALL BE DELIVERED FROM NATURAL ORGANIC SOURCES. THE

FOLLOWING FERTILIZERS SHALL BE USED AND APPLIED AT RATES AS SUGGESTED BY MANUFACTURER'S SPECIFICATIONS:

- 1. SHRUBS AND TREES MILORGANITE, OR APPROVED EQUAL
- 2. ANNUALS AND GROUNDCOVERS OSMOCOTE/SIERRA BLEND 14 14 14 3.SOD - 8 - 8 - 8

IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIAL SHALL RECEIVE "AGRIFORM" PLANTING TABLETS 24 – 10 – 5 FORMULA, 21 GRAM OR EQUAL. THESE TABLETS SHALL BE PLACED AT THE RATE AND DEPTH SPECIFIED BY MANUFACTURER.

1. MULCH SHALL BE FROM SHREDDED WOOD DERIVED FROM MELALEUCA OR OTHER INVASIVE TREE SPECIES AND SHALL BE STERILIZED TO EFFECTIVELY ELIMINATE ALL SEEDS, SPORES, ETC. AND RENDER THEM BARREN.

2. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT AND APPLIED AT A DEPTH OF THREE INCHES (3"). MULCH IS TO BE KEPT 2-3" FROM THE STEM OF ALL GROUNDCOVERS & 3-6" FROM THE TRUNK OF ALL TREES & PALMS.

3. MULCH SHALL BE GRADE 'B' SHREDDED, AND SHALL BE APPLIED EVENLY AND SMOOTH TO PLANTED AREAS.

4. NO RED OR COLORED MULCH SHALL BE ACCEPTED UNLESS SPECIFIED ACCORDINGLY. NO CYPRESS MULCH OR PINE BARK SHALL BE USED.

## H. DIGGING AND HANDLING

1. PROTECT ROOT SYSTEMS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS, WATER EROSION, AND OTHER HARMFUL CRITERIA AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT BREAKING AND DRYING OUT DURING LOADING, TRANSIT, AND UNLOADING/PLANTING. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS, AND IN ACCORDANCE WITH "GRADES AND STANDARDS FOR NURSERY PLANTS" FLORIDA PUBLICATION. NO PLANT WITH A ROOTBALL SHALL BE PLANTED IF

THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. THE ROOTS SHALL NOT BE CUT WITHIN THE MINIMUM SPREAD SPECIFIED IN THE PLANT LIST. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT IN MOVING AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS BY "GRADES AND STANDARDS FOR NURSERY PLANTS" FLORIDA PUBLICATION. PRUNING PRACTICED OTHER THAN MINIMAL PRUNING OF FRONDS, PRIMARILY TO REACH A "CLEAR TRUNK" SPECIFICATION, MAY CONSTITUTE REJECTION, OF ALL PALMS SUBJECTED TO SUCH PRACTICE. LIKEWISE, EXCESSIVE PRUNING OR "SHAVING" OF ROOT BALLS TO MEET "CLEAR TRUNK" CRITERIA MAY CONSTITUTE REJECTION ONSITE. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL ON THE PLANTING DETAILS SHEET.

5. EXCAVATION OF PLANTING HOLES SHALL BE DONE USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS, AND PREPARED SUB-BASES.

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL – ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, AND SHALL MEET MINIMUM SPECIFICATIONS IN THE PLANT LIST.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GOWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

### 3. PLANT ROOTS BOUND IN CONTAINERS OR WITH CIRCLING ROOTS SHALL NOT BE ACCEPTABLE.

4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NEED AUTHORIZATION FROM THE OWNER. LIKEWISE, SUBSTITUTION OF CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE BALLED AND BURLAPPED/FIELD GROWN WILL NEED AUTHORIZATION FROM THE OWNER AND LA OF RECORD PRIOR TO THE ORDERING OF ANY MATERIALS.

5. ALL PLANT MATERIALS SHALL MEET THE MINIMUM SPECIFICATIONS LISTED IN THE PLANT SCHEDULE: SIZE (HEIGHT/SPREAD) SPECIFICATIONS TAKE PRECEDENCE OVER GALLON SIZES (IF GALLON SIZES ARE SPECIFIED).

1. WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED ON THE PLANT LIST SCHEDULE, THE MINIMUM SIZES OF ROOT BALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

### K. NATIVE STOCK

1. PLANTS COLLECTED FROM WILD OR NATIVE STAND SHALL BE CONSIDERED GROWN WHEN THEY HAVE BEEN SUCCESSFULLY REESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

1. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN A BIDDER'S TAKE OFF AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO THE SUBMISSION OF BIDS. DRAWING SHALL TAKE PRECEDENCE. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE. WHERE NO GALLON SIZE IS SPECIFIED ON CONTAINERIZED SHRUBS OR GROUNDCOVERS, THE HEIGHT & SPREAD SPECIFICATIONS SHALL PREVAIL.

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

## N. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY AFFECT THE VIABILITY OF THE PLANTS TO BE INSTALLED, HE/SHE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S CONSTRUCTION MANAGER OR DESIGNEE.

2. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE PROHIBITED TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON

ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORM WATER LINES, CABLE AND TELEPHONE.

THE SITE UNLESS OTHERWISE APPROVED BY THE JURISDICTIONAL MUNICIPALITY 3. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES. INCLUDING BUT NOT LIMITED TO:

4. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO MINIMUM DEPTH OF APPROXIMATELY 20% GREATER THAN THE RECOMMENDED PLANTING SOIL DEPTH – UNLESS OTHERWISE SPECIFIED BY JURISDICATIONAL CODE. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ONSITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR

DRAINAGE OR CONTACT OWNER'S CONSTRUCTION MANAGER OR DESIGNEE FOR RESOLUTION. CONTRACTOR IS TO ENSURE THAT ALL COMPACTED SOIL, ROAD ROCK, & EXCESS DEBRIS SHALL BE REMOVED & A 24" LAYER OF NON-LIMEROCK PLANTING SOIL FAVORABLE TO SHRUB GROWTH & SUSTAINABILITY EXISTS OVER ALL PLANTING AREAS. TREE PITS SHALL BE EXCAVATED & BACKFILLED WITH PLANTING SOIL TO A MINIMUM

## 5. RECOMMENDED PLANTING SOIL DEPTH IS GENERALLY AS FOLLOWS:

PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.

ALL TREES AND TALL SHRUBS (INDICATED AS 'SHRUBS' & 'SHRUBS AREAS' ON THE PLANT SCHEDULE) SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL; MINIMUM TOPSOIL SHALL BE 6" FOR LOW SHRUBS/GROUNDCOVER AREAS AND 2" FOR SODDED GRASS AREAS. THE MINIMUM TOPSOIL DEPTHS ARE IN ADDITION TO A MINIMUM NON-LIMEROCK SOIL DEPTH OF 10"-18", CONSISTING OF EXISTING UNDISTURBED OR NATIVE SOIL THAT WAS STORED/STOCKPILED ON SITE AND REUSED, OR CLEAN IMPORTED PLANTING SOIL WITH A RANGE OF ORGANIC MATTER BETWEEN 3-5% CONTAINING NO STONES GREATER THAN AN INCH AND A HALF IN DIAMETER IN ANY DIRECTION. TOPSOIL DEPTHS PLUS PLANTING SOIL/EXISTING NATIVE SOIL MINIMUM DEPTHS ARE IN ADDITION TO ANY LIMESTONE/LIMEROCK SUBGRADE, & IN

ADDITION TO EXCAVATION WIDTHS REQUIRED FOR TREE PITS AS SHOWN ON THE PLANTING DETAILS.

PURSUANT TO THE ABOVE, THE TOTAL MINIMUM DEPTH OF VIABLE NON-LIMEROCK PLANTING SOIL, INCLUDING EXISTING VIABLE UNDISTURBED/OR STOCKPILED SOIL (IF PRESENT), REQUIRED TO BE PROVIDED ABOVE ANY LIMESTONE/LIMEROCK SUBGRADE CONDITION SHALL BE 12" MINIMUM TOTAL NON-LIMEROCK SOIL DEPTH FOR SOD AREAS; 16" MINIMUM TOTAL NON-LIMEROCK SOIL DEPTH FOR GROUNDCOVERS; 24" MINIMUM TOTAL NON-LIMEROCK SOIL DEPTH FOR SHRUBS/SHRUB AREAS; AND 30" MINIMUM TOTAL NON-LIMEROCK SOIL DEPTH FOR TREE PITS. DESIGNATION OF 'TREES,' 'SHRUBS'/'SHRUB AREAS,' AND 'GROUNDCOVERS' SHALL BE CONSISTENT WITH THE LABELING OF PLANT MATERIALS SHOWN ON THE LANDSCAPE PLAN'S PLANT SCHEDULE, WITH THE EXCEPTION OF COMMON TURFGRASSES WHICH MAY BE INDICATED AS 'GROUNDCOVERS.' NONE OF THE ABOVE MINIMUMS SHALL PRECLUDE THE CONTRACTOR FROM EXCAVATING & PROVIDING SOIL IN ACCORDANCE WITH NOTE N.4 OR N.9. IMPORTED PLANTING SOIL SHALL BE IN ACCORDANCE WITH NOTE D.2.D.

IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE & TAKE REASONABLE MEASURES AS PART OF DUE DILIGENCE TO DETERMINE THE EXTENT OF EXCAVATION REQUIRED & TO DETERMINE THE AMOUNT OF PLANTING SOIL NECESSARY TO ENSURE LONG-TERM SUSTAINABILITY & SURVIVAL OF THE PLANT MATERIALS IN ACCORDANCE WITH THIS CONTRACT.

6. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE. 7. GENERAL: COMPLY WITH FEDERAL, STATE, COUNTY AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE BY BEING THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS SHALL NOT REMAIN UNPROTECTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

8. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF

9. ALL PLANTING HOLES SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD TO NURSERY STOCK 280.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREIN BEFORE (SEE MATERIALS, SECTION D). TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE PLANTING DETAIL THAT ADDRESSES THIS CONDITION. POOR DRAINAGE CONDITIONS TYPICALLY HAVE A PERCOLATION RATE OF 4" OR LESS PER HOUR, AS DETERMINED BY THE GEOTECHNICAL ENGINEER. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL RECOMMENDED.

10. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS, CURBS, PAVING, AND OTHER HARDSCAPE MATERIALS WHILE INSTALLING TREES.

11. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION D (MATERIALS) OF THESE SPECIFICATIONS. IN ADDITION. EACH PLANTING HOLE SHALL RECEIVE 21-GRAM "AGRIFORM" PLANTING TABLETS PER MANUFACTURER'S SPECIFICATIONS OR AS FOLLOWS:

- TWO (2) TABLETS PER 1 GAL. PLANT THREE (3) TABLETS PER 3 GAL. PLANT - FOUR (4) TABLETS PER 10 GAL. PLANT

LARGER MATERIAL

-TWO (2) TABLETS PER HALF INCH (1/2") OF TRUNK CALIPER

12. TREES AND SHRUBS SHALL BE SET STRAIGHT AND AT SUCH A LEVEL THAT AFTER SETTLEMENT, THE TOP OF THE ROOT SYSTEM (FOR SHRUBS AND GROUNDCOVER) OR TRUNK FLARE (TREES AND PALMS) WILL STAND ONE (1) TO TWO (2) INCHES ABOVE FINAL GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PLANTING HOLE. PLANTING SOIL MIXTURE SHALL BE BACKFILLED AND THOROUGHLY TAMPED AROUND THE BALL AND SHALL BE SETTLED BY WATER AFTER TAMPING.

13. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, TURNING SOIL IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET OR OTHER TAMPING DEVICE. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, ETC., SHALL BE PULLED FROM UNDERNEATH.

14. PRUNING: FOR DAMAGED OR BROKEN LIMBS, EACH TREE SHALL BE PRUNED TO PRESERVE THE NATURAL CHARACTER OF THE SPECIES. ALL SUCKER GROWTH SHALL BE COMPLETELY REMOVED PRIOR TO DIGGING.

15. SHRUBS AND GROUNDCOVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED IN THE PLANT LIST. CULTIVATE ALL MASS PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE OF ALL DEBRIS, TILL 4" OF PLANTING SOIL MIX INTO THE NEWLY TILLED PLANTING BED FOR GENERAL NUTRIENT DISBURSEMENT. MASS PLANTING BED IS NOW READY TO RECEIVE HOLES FOR NEW PLANTS. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

16. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO ENSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. TREES SHALL USE ARBORTIE AS PER DETAIL SHEET. PALMS SHALL USE WOOD BRACING PER DETAIL SHEET.

17. MULCHING: PROVIDE A THREE INCH (3") MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUNDCOVER AND VINE BED AND TREE PIT (FOR TREES AND PALMS, MIN. THREE INCH (3") FROM EDGE OF TRUNKS). – UNLESS OTHERWISE REQUIRED BY LOCAL CODES AND SPECIFIED AS SUCH.

18. SYSTEMIC HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER OR THEIR DESIGNEE, A SYSTEMIC HERBICIDE SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. AFTER MULCH HAS BEEN APPLIED TO PLANTING BEDS AND TREE RINGS, TREAT ALL MULCHED AREAS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.

## O. LAWN SODDING

STENOTAPHRUM SECUNDATUM, V. 'FLORITAM' UNLESS OTHERWISE NOTED. (ST. AUGUSTINE SOLID SOD). 1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING: COMPLETE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A GRASS LAWN ACCEPTABLE TO THE OWNER AND GOVERNING AGENCIES.

2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND OTHER DEBRIS, AND THE SOIL BROUGHT TO AN EVEN PREPARED GRADE TO ALLOW FOR SOIL PREPARATION BELOW.

3. SOIL PREPARATION: PREPARE LOOSE BED FOUR INCHES (4") DEEP. APPLY FERTILIZER AT A RATE OF TWENTY (20) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. APPLICATION SHALL BE UNIFORM, UTILIZING COMMERCIAL BROADCAST SPREADERS. MIX FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE INCHES (3"). HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY TO PREPARE FOR SOD INSTALLATION.

4. SODDING: THE CONTRACTOR SHALL SOD ALL THE PERVIOUS AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS TO CREATE A UNIFORM, NEW TURF BLANKET FOR THE SITE, ALL PERVIOUS AREAS TO REMAIN THAT ARE DISTURBED BY CONSTRUCTION & NOT SHOWN TO HAVE SHRUBS OR GROUNDCOVER ON THE LANDSCAPE PLAN SHALL BE SODDED BY CONTRACTOR. ALL SOD OFF-SITE OR IN THE RIGHT-OF-WAY (DEDICATED OR OTHERWISE) SHALL BE BAHIA 'ARGENTINE' SOLID SOD UNLESS OTHERWISE NOTED.

A) THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETY TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS, AND DISEASE OF ANY KIND, SOD PANELS SHALL BE LAID TIGHTLY TOGETHER TO MAKE A SOLID, SODDED LAWN AREA.

B) SOD SHALL BE LAID IN ROWS WITH EVERY OTHER ROW STAGGERED HALFWAY BETWEEN THE NEXT TO INSURE NO CONTINUOUS STACKED JOINTS. SEW JOINTS OF SOD TO INSURE A TIGHT FIT AT JOINTS, WITH GAPS NO GREATER THAN 1" BETWEEN SOD PANELS.

C) SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A FOUR INCH (4") MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED TO THOROUGHLY MOISTEN THE SOIL BENEATH. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND AS APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN.

5. DURING DELIVERY, PRIOR TO ADD DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE INSTALLED DURING THE DAY OF ITS ARRIVAL.

## 6. LAWN MAINTENANCE:

A) WITHIN THE SITE, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTABILITY BY OWNER OR AS IN THE ORIGINAL WORK SCOPE AND PROCESS (INCLUDING REGRADING IF NECESSARY).

B) WATER EVERY DAY FOR FOURTEEN (14) SUCCESSIVE DAYS, THEN WATER THREE (3) TIMES PER WEEK (AT EVEN INTERVALS) UNTIL FULLY ESTABLISHED OR UNTIL AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL AND PROGRAMMED ACCORDINGLY. COORDINATE WATERING SCHEDULE WITH NATURAL RAINFALL. RAINFALL EVENTS IN DURATION OF TWENTY (20) MINUTES OR MORE THAT PRODUCE MORE THAN A HALF INCH (1/2") OF PRECIPITATION WILL NEGATE THE NEED FOR WATERING OF THE FOLLOWING DAY IF PREVIOUSLY SCHEDULED. ALL WATERING SHALL BE OF SUFFICIENT QUANTITY TO WET OR RESTORE WATER TO A DEPTH OF FOUR INCHES (4").

1. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

### Q. PLANT MATERIAL MAINTENANCE

1. ALL PLANTS AND PLANTING MATERIALS INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNEE. MAINTENANCE AFTER THE CERTIFICATION OF AN ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF NINETY (90) CALENDAR DAYS COMMENCING AFTER ACCEPTANCE (SEE NEXT SECTION).

### R. MAINTENANCE (ALTERNATIVE BID ITEM)

1. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR LANDSCAPE AND IRRIGATION MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST PER MONTH BASIS.

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNEE. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR CARE & MAINTENANCE OF THE PLANT MATERIAL UNTIL THE END OF ESTABLISHMENT OR 60 DAYS AFTER FINAL LANDSCAPE CERTIFICATION BY THE LANDSCAPE ARCHITECT, WHICHEVER IS LATER, & SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR AS NEEDED TO ENSURE ADEQUATE WATER IS SUPPLIED TO THE PLANT MATERIALS DURING ESTABLISHMENT. AT THE END OF THE ESTABLISHMENT PERIOD, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THE IRRIGATION TIMECLOCK IS ADJUSTED TO A NORMAL WATERING CYCLE PER THE IRRIGATION WATERING SCHEDULE SHOWN ON THE IRRIGATION PLANS.

2. THE LIFE AND SATISFACTORY CONDITION OF ALL SOD INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF NINETY (90) CALENDAR DAYS, COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNERS OR OWNER'S DESIGNEE.

3. REPLACEMENT: ANY PLANT NOT IN A HEALTHY, THRIVING GROWING CONDITION SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. SHOULD THE OWNER FLECT, TREES AND PALMS MAY BE GIVEN A PERIOD OF NINETY (90) DAYS BEFORE REMOVAL TO ALLOW THE CONTRACTOR TO RESURRECT THE TREE OR PALM IN QUESTION AND BRING IT TO A THRIVING, HEALTHY CONDITION. ALL REPLACEMENTS SHALL BE PLANTS OF LIKE KIND, CONDITION AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED, AND MULCHED AS SPECIFIED WITHIN THESE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER. ANY REPAIRS FROM THIS REPLACEMENT MATERIAL SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY. REPLACEMENT MATERIAL SHALL BE GUARANTEED TO A ONE (1) YEAR PERIOD FROM THE DAY OF REPLACEMENT ACCEPTANCE BY THE OWNER. SHOULD REPLACEMENT MATERIAL FAIL WITHIN THE GUARANTEE PERIOD, OWNER MAY OPT FOR A CREDIT OF THE MONETARY AMOUNT FOR THE REPLACEMENT MATERIALS AT A RATE OF THE ORIGINAL CONTRACT BID RATE, IN LIEU OF AN ADDITIONAL REPLACEMENT.

4. IN THE EVENT THE OWNER ELECTS NOT TO CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER OR THEIR DESIGNEE, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH OF ITEMS UNDER REPLACEMENT WARRANTY. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

### T. FINAL INSPECTION AND ACCEPTANCE OF WORK

1. FINAL INSPECTION BY OWNER OR THEIR DESIGNEE AT THE END OF THE GUARANTEE PERIOD SHALL INCLUDE PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY PLANTS NOT MEETING THE CRITERIA OF HEALTHY, VIGOROUS, AND THRIVING AT THIS TIME, AND THAT HAVE NOT ALREADY BEEN REPLACED PREVIOUSLY UNDER SAID WARRANTY, SHALL BE SUBJECT TO THE SAME ONE (1) YEAR GUARANTEE 9OR AS SPECIFIED BY THE OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

### U. GRADING AND DRAINAGE NOTES

1. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY THE RESPECTIVE UTILITY COMPANIES IN FLORIDA, CALL FLORIDA SUNSHINE AT 811.

2. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES.

3. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH INCH (1/8") PER FOOT. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.

4. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK, SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW, WHERE EXISTING VEGETATION IS TO REMAIN, MEET EXISTING GRADES; DO NOT FILL ABOVE BASAL FLARE OF EXISTING TREES.

## V. UTILITY PLAN NOTES

1. CONTRACTOR SHALL INSTALL SCHEDULE 80 PVC CONDUIT (SLEEVES) FOR ALL IRRIGATION PIPING UNDER ALL PAVEMENT AREAS TO CONNECT ALL LANDSCAPE AREAS.

## W. SITE PREPARATION

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET THE OWNER AND IDENTIFY TREES AND SHRUBS WHICH ARE TO BE PROTECTED AS WELL AS THOSE WHICH ARE TO BE REMOVED. DO NO CLEARING WITHOUT A

CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.

2. TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED BY THE INSTALLATION OF FENCING AT THE DRIP LINE OR AS DIRECTED BY THE OWNER (SEE LANDSCAPE DETAIL SHEET). PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO CONSTRUCTION, PROTECTIVE FENCING SHALL BE SUFFICIENT TO PREVENT CONSTRUCTION EQUIPMENT FROM COMPACTING SOIL AT THE ROOT ZONE AND DAMAGING TRUNKS AND BRANCHES.

3. IF, IN ORDER TO PERFORM EXCAVATION WORK, IT SHOULD BECOME NECESSARY TO CUT ROOTS OF PLANTS TO BE SAVED, SUCH ROOTS SHALL BE CUT NEATLY WITH A SMOOTH CLEAN CUT BY A SHARP SAW, COVERED WITH BURLAP, AND KEPT MOIST UNTIL ROOTS ARE BACK FILLED. TEARS OR JAGGED CUTS TO ROOTS ARE UNACCEPTABLE.

4. TREE AND SHRUB REMOVAL SHALL INCLUDE THE FILLING, CUTTING, GRUBBING OUT OF ENTIRE ROOT SYSTEMS AND SATISFACTORY OFF-SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS, VEGETATIVE AND EXTRANEOUS DEBRIS PRODUCED BY THE REMOVAL OPERATIONS.

HIS CONTRACT OPERATIONS. 6. ALL REFUSE, DEBRIS, UNSUITABLE MATERIALS AND MISCELLANEOUS MATERIALS TO BE REMOVED SHALL BE

5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMITS OF CONSTRUCTION DUE TO

7. ALL INVASIVE EXOTIC VEGETATION SHALL BE DISPOSED OF OR TREATED AS PER THE LOCAL OR REGIONAL GOVERNING AUTHORITIES, REQUIREMENTS OR RECOMMENDATIONS.

## X. ROOT CONTROL BARRIER

LEGALLY DISPOSED OF OFF-SITE BY CONTRACTOR.

1. ROOT CONTROL PRODUCT SHALL BE A BIOLOGICAL BARRIER PRODUCT. PRODUCT SHALL BE 810-BARRIER ROOT CONTROL SYSTEM, AS MANUFACTURED BY BBA FIBERWEB/REEMAY, INC. AND DISTRIBUTED BY HORT ENTERPRISES, INC. SEE WWW.BIOBARRIER.COM FOR ADDITIONAL INFORMATION AND PRODUCT SPECIFICATION. HORT ENTERPRISES, INC. P.O. BOX 2448

POMPANO BEACH, FL 33061 1-800-966-4678

2. PRODUCT SHALL BE A BIOLOGICAL BARRIER UTILIZING LIME-RELEASE CAPSULES INTEGRATED INTO A GEOTEXTILE FABRIC. ACTIVE HERBICIDE SHALL BE A TRIFLURALIN, AND MINIMUM TIME RELEASE OF EFFECTIVE PRODUCT SHALL BE 1-5 YEARS IN THE MOST ADVERSE CONDITIONS FOR SUCH A PRODUCT. ALTERNATIVELY, A RIGID PHYSICAL ROOT BARRIER SUCH AS 'DEEP ROOT' HARD PLASTIC AT LEAST 24" IN DEPTH SHALL BE USED.

3. PRODUCT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS FOR ROOT CONTROL SYSTEMS.

4. USE PRODUCT WHERE TREES ARE WITHIN TEN FEET (10') OR LESS OF HARDSCAPE SURFACES OR UTILITIES INCLUDING BUT NOT LIMITED TO CURBS, SIDEWALKS, STEPS, ROADWAYS, WATER & SEWER LINES. SMALL TREES THAT TYPICALLY MATURE AT 18' HEIGHT OR LESS REQUIRE ROOT BARRIERS WHERE SMALL TREES ARE WITHIN SIX FEET (6') OR LESS OF HARDSCAPE SURFACES OR UTILITIES. EXISTING TREES TO BE PRESERVED (THAT ARE NOT WITHIN TEN FEET (10') OF ANY NEW UTILITIES) DO NOT REQUIRE ROOT BARRIERS. ROOT BARRIERS ARE NOT REQUIRED WHERE PROPOSED TREES ARE LOCATED ADJACENT TO D-TYPE CURBING.

5. USE 36" DEPTH OPTION WHEN USING A BIOLOGICAL ROOT BARRIER. USE 24" DEPTH OPTION WHEN USING RIGID PLASTIC, PHYSICAL ROOT BARRIER SUCH AS 'DEEP ROOT'.

6. WHERE CONDITIONS REQUIRE PRODUCT AS SET FORTH IN NO. 4 ABOVE, USE PRODUCT IN EITHER DIRECTION FROM THE CENTER OF THE TRUNK ALONG LINEAR FEATURES SUCH AS CURBS, WALKWAYS, ETC. THE INTENT OF THIS SPECIFICATION IS TO PROVIDE A ROOT CONTROL SYSTEM WHERE ROOTS WOULD LIKELY CAUSE PHYSICAL DAMAGE TO ADJACENT HARDSCAPE SURFACES, FOUNDATIONS, UTILITIES, OR OTHER ELEMENTS THAT MAY RECEIVE DAMAGE FROM ROOT SYSTEMS OF TREES. REFER TO NO. 5 ABOVE FOR THE REQUIRED DEPTH OF THE ROOT BARRIERS. THE USE OF ROOT BARRIERS SHALL BE MINIMUM 6' OVERALL LENGTH FROM THE CENTER OF THE TRUNK PARALLEL TO LINEAR FEATURES TO BE PROTECTED FOR SMALL TREES, OR MINIMUM 10' OVERALL LENGTH FROM THE CENTER OF THE TRUNK FOR MEDIUM TO LARGE MATURING SHADE TREES. MINIMUM LENGTHS OF ROOT BARRIER PRODUCTS MAY BE INCREASED BASED ON LENGTH GRAPHICALLY DEPICTED ON PLAN, OR AT THE DISCRETION OF THE LANDSCAPE INSPECTOR. IN PARKING LOT ISLANDS ONLY, THE ROOT BARRIER LENGTH SHALL BE PROVIDED FOR THE FULL LENGTH OF FEATURE (UTILITY, STRUCTURE, OR PAVEMENT) TO BE PROTECTED.

1. CONTRACTOR TO PROVIDE AN IRRIGATION DESIGN FOR BOTH LAWN AND BED AREAS UNLESS ALREADY PROVIDED BY THE LANDSCAPE ARCHITECT AS PART OF THE CONTRACT DOCUMENTS. DESIGN TO BE SUBMITTED TO PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR TO VERIFY STATIC PRESSURE PRIOR TO DESIGN. CONTRACTOR IS RESPONSIBLE FOR ANY PRESSURE REDUCING DEVICES REQUIRED TO MEET PRESSURE REQUIREMENTS. SYSTEM DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, AND CONTROLLERS, ALL SLEEVES IN PAVEMENT AREAS MUST BE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFLOW PREVENTION DEVICE INSTALLATION AND PERMITTING. CONTRACTOR SHALL NOT INSTALL IRRIGATION IN RIGHT-OF-WAY UNLESS REQUIRED BY CITY, NETAFIM DRIP IRRIGATION TO BE INSTALLED IMMEDIATELY AROUND BUILDING TO PREVENT WATER SPRAY ON BUILDING, WALKS, AND WINDOWS. NETAFIM PIPING TO BE BURIED JUST BENEATH SOIL SURFACE AND COVERED, INSTALLED BY AN OWNER APPROVED

2. DESIGNED SYSTEM SHALL CONSIST OF AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM PROVIDING 100% COVERAGE WITH 100% OVERLAP, AND CONTAINING A RAIN SENSOR INSTALLED BY AN OWNER APPROVED CONTRACTOR. THIS SYSTEM SHALL BE INSTALLED AND OPERATIONAL WITHIN TEN (10) DAYS OF THE INITIAL LANDSCAPE INSTALLATION.

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY OR DISPOSITION PLAN TO THE OWNER & LANDSCAPE ARCHITECT OF RECORD PRIOR TO STARTING WORK. ANY OVERHEAD POWERLINES, UNDERGROUND UTILITIES, EXISTING TREES, ETC. IN CONFLICT WITH PROPOSED LANDSCAPING, INCLUDING FPL RIGHT-TREE-RIGHT-PLACE GUIDELINES, SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE OR DESIGNEE, AND TO THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO SUBJECT PLANT MATERIAL INSTALLATION. FAILURE TO NOTIFY THE LANDSCAPE ARCHITECT & OWNER OF ANY DISCREPANCIES SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND WILL RESULT IN THE CONTRACTOR MOVING OR REPLACING THE PLANT MATERIAL AT THEIR OWN EXPENSE. LARGE MATURING SHADE TREES (THOSE THAT TYPICALLY GROW TO A SPREAD OR HEIGHT GREATER THAN 25 FEET) SHALL NOT BE PLANTED WITHIN 20 FEET OF ANY OTHER LARGE MATURING SHADE TREES UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE LANDSCAPE PLAN. CONTRACTOR SHALL NOT WILLFULLY INSTALL PLANT MATERIALS IN CONFLICT WITH EXISTING OR PROPOSED SITE FEATURES.

1. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE

PLANTING SHOWN ON THIS DRAWING. 2. ALL BIODEGRADABLE BURLAP SHALL BE UNTIED AND PULLED DOWN TO EXPOSE THE TOP 1/3 OF THE BALL. WIRE BASKETS AND OTHER NON-BIODEGRADABLE MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO BREAK OR DISTURB ROOT BALL OF PLANTS. 3. ALL PLANTS SHALL BE WATERED BY HAND IN SUFFICIENT QUANTITIES TO THOROUGHLY WET ENTIRE ROOT

SYSTEM IMMEDIATELY AFTER PLANTING. 4. PLANTS SHALL BE GUARANTEED TO A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE PROJECT AND SHALL BE VIGOROUS AND THRIVING AT THE END OF THE GUARANTEE PERIOD. SEE SECTIONS S, GUARANTEE FOR

5. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE OWNER. 6. CONTRACTOR SHALL FAMILIARIZE HIM/HER -SELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND

VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER OR OWNER'S DESIGNEE IN WRITING WITHIN SEVEN (7) CALENDAR DAYS OF NOTICE TO PROCEED 7. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES AND OBTAIN AS-BUILT INFORMATION. DRAWINGS WERE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME.

CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN (7) CALENDAR DAYS OF NOTICE TO PROCEED OF ANY DISCREPANCIES. 8. CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES FORTY-EIGHT (48) HOURS MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES AND OTHER OBSTRUCTIONS AND COORDINATE

WITH OWNER'S DESIGNEE IN WRITING PRIOR TO INITIATING OPERATIONS. 9. CONTRACTOR SHALL TAG AND NUMBER ALL PLANT MATERIAL TO BE RELOCATED. THE CONTRACTOR SHALL FULLY ASSIST AND COORDINATE THIS WORK WITH THE OWNER'S DESIGNEE PRIOR TO INITIATING FIELD DIGGING

10. LOCATIONS OF RELOCATED PLANT MATERIAL ARE APPROXIMATED ON THE DRAWINGS. EXACT LOCATIONS OF RELOCATED PLANT MATERIAL WILL BE CLARIFIED BY THE OWNER'S DESIGNEE ON SITE.

11. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS. 12. TYPICALLY, SHRUB AND GROUNDCOVER PLANTINGS ARE SHOWN IN MASS PLANTING BEDS. PLANTS SHALL BE

PLACED ON A LINEAR SPACING CONFIGURATION AROUND BUILDING FOUNDATION AS SHOWN ON DRAWING.

PLANT CENTER TO CENTER DIMENSIONS (O.C.) ARE LISTED ON THE PLANT LIST. FOR PERIMETER AND PARKING

ISLAND SPACING, USE THE TRIANGULAR SPACING METHOD. 13. CONTRACTOR SHALL FIELD STAKE THE LOCATIONS OF ALL PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S DESIGNEE. 14. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO ALL

EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED

SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S 15. ALL PLANTING AREAS, UNLESS OTHERWISE NOTED, SHALL INCLUDE A THREE INCH (3") LAYER OF MULCH AS PER THE SPECIFICATIONS.

16. ALL TREES PLANTED IN LAWN AREAS SHALL RECEIVE A THREE-FOOT DIAMETER (3') MULCH RING AT DEPTH OF THREE INCHES (3"). 17. ALL EXISTING TREES TO REMAIN IN LAWN AREA SHALL RECEIVE A MULCH RING TWO FEET (2') OUT FROM EDGE OF TRUNK OR TO THE LIMIT OF THE ADJACENT LAWN AREA AT A DEPTH OF THREE INCHES (3") AS PER

SPECIFICATIONS. 18. ANY SUBSTITUTIONS IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE OWNER'S DESIGNEE IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY THE OWNER'S DESIGNEE BEFORE PLANTING CAN BEGIN. 19. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN THE EVENT OF QUANTITY DISCREPANCIES, THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE

ATTENTION OF THE LANDSCAPE ARCHITECT.

20. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND THE PROJECT MANUAL AND SPECIFICATIONS FOR FURTHER AND COMPLETE INSTRUCTIONS. 21. ALL UTILITY BOXES, CLEANOUTS, ETC., SHALL BE PAINTED GREEN IF IN GRASS AREAS AND BROWN IF IN MULCH

22. THIS SITE MAY CONTAIN EXISTING TREES WHICH REQUIRE TRIMMING AND/OR PRUNING. THE LANDSCAPE COMPANY/CONTRACTOR MUST HAVE A CERTIFIED ARBORIST ON STAFF TO ENSURE PROPER ISA HORTICULTURAL PROCEDURES ARE FOLLOWED REGARDING THE TRIMMING, PRUNING, TRANSPLANTING, ETC. OF THESE TREES.



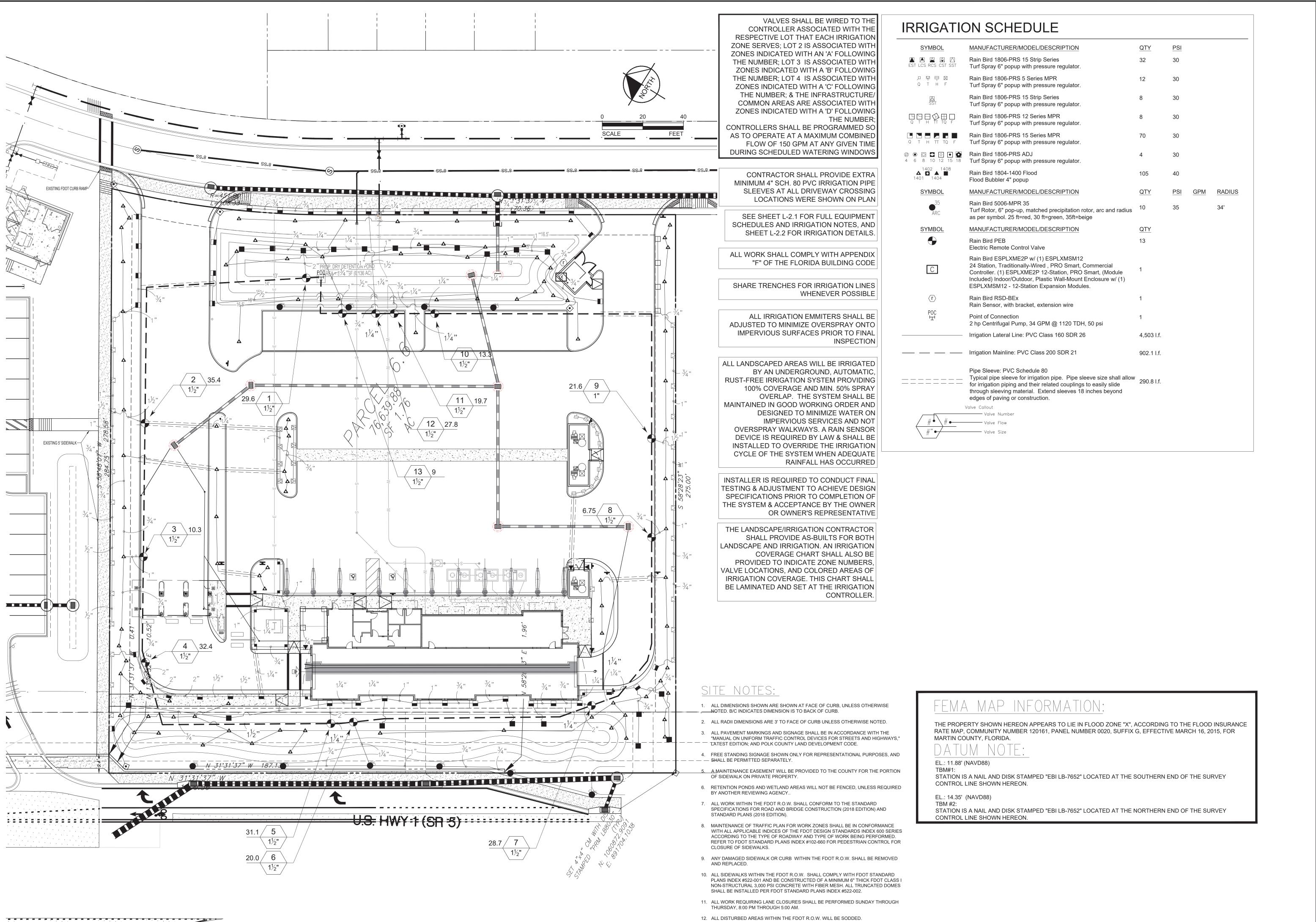
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1/30/24

SHEET NUMBER

ER (ENSI

PROJECT NO.



EVISED PER COUNTY COMMENTS 1/30/2
REVISIONS DATE

ALOHA PACIFICA LL(
LANDSCAPE ARCHITECTURE + WATER FEATURE
311 CORTLAND AVENUE WINTER PARL, FLORIDA 32789
407) 617-8998 OFFICE ALOHAPACIFICALLC@EMBARQMAIL.C



GR CA CONTRACTOR OF THE CONTRA

DESIGNED BY
GRAWN BY
CHECKED BY
GG

Jensen PUD, Phase 1B, Parcel 6.6 RRIGATION PLAN

IISTER CAR WASH JENSEN BEACH 1855 GOLDENROD RD.

1/30/24 PROJECT NO.

SHEET NUMBER

## 

IRRIGATIO	ON SCHEDULE				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	<u>PSI</u>		
EST LCS RCS CST SST	Rain Bird 1806-PRS 15 Strip Series Turf Spray 6" popup with pressure regulator.	32	30		
	Rain Bird 1806-PRS 5 Series MPR Turf Spray 6" popup with pressure regulator.	12	30		
SST	Rain Bird 1806-PRS 15 Strip Series Turf Spray 6" popup with pressure regulator.	8	30		
Q T H TQ F	Rain Bird 1806-PRS 12 Series MPR Turf Spray 6" popup with pressure regulator.	8	30		
Q T H TT TQ F	Rain Bird 1806-PRS 15 Series MPR Turf Spray 6" popup with pressure regulator.	70	30		
	Rain Bird 1806-PRS ADJ Turf Spray 6" popup with pressure regulator.	4	30		
1402 1408 1401 1404	Rain Bird 1804-1400 Flood Flood Bubbler 4" popup	105	40		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	<u>GPM</u>	RADIUS
35 ARC	Rain Bird 5006-MPR 35 Turf Rotor, 6" pop-up, matched precipitation rotor, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	10	35		34'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
•	Rain Bird PEB Electric Remote Control Valve	13			
С	Rain Bird ESPLXME2P w/ (1) ESPLXMSM12 24 Station, Traditionally-Wired , PRO Smart, Commercial Controller. (1) ESPLXME2P 12-Station, PRO Smart, (Module Included) Indoor/Outdoor, Plastic Wall-Mount Enclosure w/ (1) ESPLXMSM12 - 12-Station Expansion Modules.	1			
$\langle r \rangle$	Rain Bird RSD-BEx Rain Sensor, with bracket, extension wire	1			
POC ビ	Point of Connection 2 hp Centrifugal Pump, 34 GPM @ 1120 TDH, 50 psi	1			
	Irrigation Lateral Line: PVC Class 160 SDR 26	4,503 l.f.			
	Irrigation Mainline: PVC Class 200 SDR 21	902.1 l.f.			
======	Pipe Sleeve: PVC Schedule 80 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	290.8 l.f.			
•	Value Muselean				

# VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	<u>GPM</u>	<u>HEADS</u>	PIPE	WIRE	DE
1	Rain Bird PEB	1-1/2"	Turf Spray	29.6	8	120.7	208.1	30
2	Rain Bird PEB	1-1/2"	Turf Spray	35.41	24	379.4	353.8	30
3	Rain Bird PEB	1-1/2"	Bubbler	10.5	42	673.7	419.7	40
4	Rain Bird PEB	1-1/2"	Turf Spray	32.4	39	626.7	471.9	30
5	Rain Bird PEB	1-1/2"	Turf Spray	31.15	13	263.2	586.7	30
6	Rain Bird PEB	1-1/2"	Turf Rotor	19.98	6	223.1	597.8	35
7	Rain Bird PEB	1-1/2"	Turf Spray	28.67	11	142.7	716.2	30
8	Rain Bird PEB	1-1/2"	Bubbler	6.75	27	496.7	236.6	40
9	Rain Bird PEB	1"	Turf Spray	21.57	17	236.9	187.9	30
10	Rain Bird PEB	1-1/2"	Turf Rotor	13.32	4	111.2	126.6	35
11	Rain Bird PEB	1-1/2"	Turf Spray	19.66	7	256.4	146.5	30
12	Rain Bird PEB	1-1/2"	Turf Spray	27.78	15	259.8	155.6	30
13	Rain Bird PEB	1-1/2"	Bubbler	9	36	712.2	172.0	40
	Common Wire						902.1	

# WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK
NOWIDER	WODLE	<u> </u>	TREON	IIV./ VVLLIX	IVIII V./ VV L L IX	O/ (L./ WELIX
1	Rain Bird PEB	Turf Spray	0.76 in/h	1	80	2,368
2	Rain Bird PEB	Turf Spray	1.62 in/h	1	38	1,346
3	Rain Bird PEB	Bubbler	7.66 in/h	1	8	84
4	Rain Bird PEB	Turf Spray	0.93 in/h	1	65	2,106
5	Rain Bird PEB	Turf Spray	0.73 in/h	1	83	2,585
6	Rain Bird PEB	Turf Rotor	0.56 in/h	1	107	2,138
7	Rain Bird PEB	Turf Spray	0.91 in/h	1	67	1,921
8	Rain Bird PEB	Bubbler	7.66 in/h	1	8	54
9	Rain Bird PEB	Turf Spray	1.25 in/h	1	48	1,035
10	Rain Bird PEB	Turf Rotor	0.61 in/h	1	99	1,319
11	Rain Bird PEB	Turf Spray	0.67 in/h	1	89	1,750
12	Rain Bird PEB	Turf Spray	0.83 in/h	1	73	2,028
13	Rain Bird PEB	Bubbler	7.66 in/h	1	8	72
		TOTALS:			773	18,806

# CDITICAL ANALVEIC

Generated:	2023-05-09 11:09
P.O.C. NUMBER: 01 Water Source Information:	2 hp Centrifugal Pump, 34 GPM @ 1120 TDH, 50 psi
FLOW AVAILABLE	
Custom Max Flow:	34 GPM
Flow Available	34 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	50 PSI
Pressure Available:	50 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	35.41 GPM
Flow Available at POC:	34 GPM
Residual Flow Available:	-1.41 GPM
Critical Station:	8
Design Pressure:	40 PSI
Friction Loss:	2.23 PSI
Fittings Loss:	0.22 PSI
Elevation Loss:	0 PSI
Loss through Valve:	3.9 PSI
Pressure Req. at Critical Station:	46.4 PSI
Loss for Fittings:	0.26 PSI
Loss for Main Line:	2.57 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	0 PSI
Critical Station Pressure at POC:	49.2 PSI
Pressure Available:	50 PSI
Residual Pressure Available:	0.81 PSI

### IRRIGATION NOTES

- 1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- 3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- 5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- 6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
- 7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- 8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
- 10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- 11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
- 12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- 13. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. THOMAS ENGINEERING GROUP RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
- 14. CONTRACTOR TO RECERTIFY EXISTING PUMP AND PVB IF APPLICABLE.

POINTS OF CONNECTION SHALL BE AN NEW 2 HP SUBMERSIBLEL PUMP WITH PRESSURE DEMAND SYSTEM DRAWING FROM AQUIFER. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

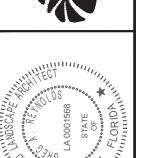
MINIMUM STATIC WATER PRESSURE REQUIRED @ POC DESIGN STATIC WATER PRESSURE 50 PSI MAXIMUM SYSTEM DEMAND 35.41 GPM

CONTROLLER IS AS SPECIFIED (MOUNT IN PUMP HOUSE). CONTRACTOR TO VERIFY CONDITION AND FINAL LOCATION OF CONTROLLER AND ELECTRICAL POC SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR

MAINLINE AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL MAINLINE AND RELATED EQUIPMENT LOCATION TO BE WITHIN PLANTERS AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER

CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, ETC. VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE ALIGNED WITH TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

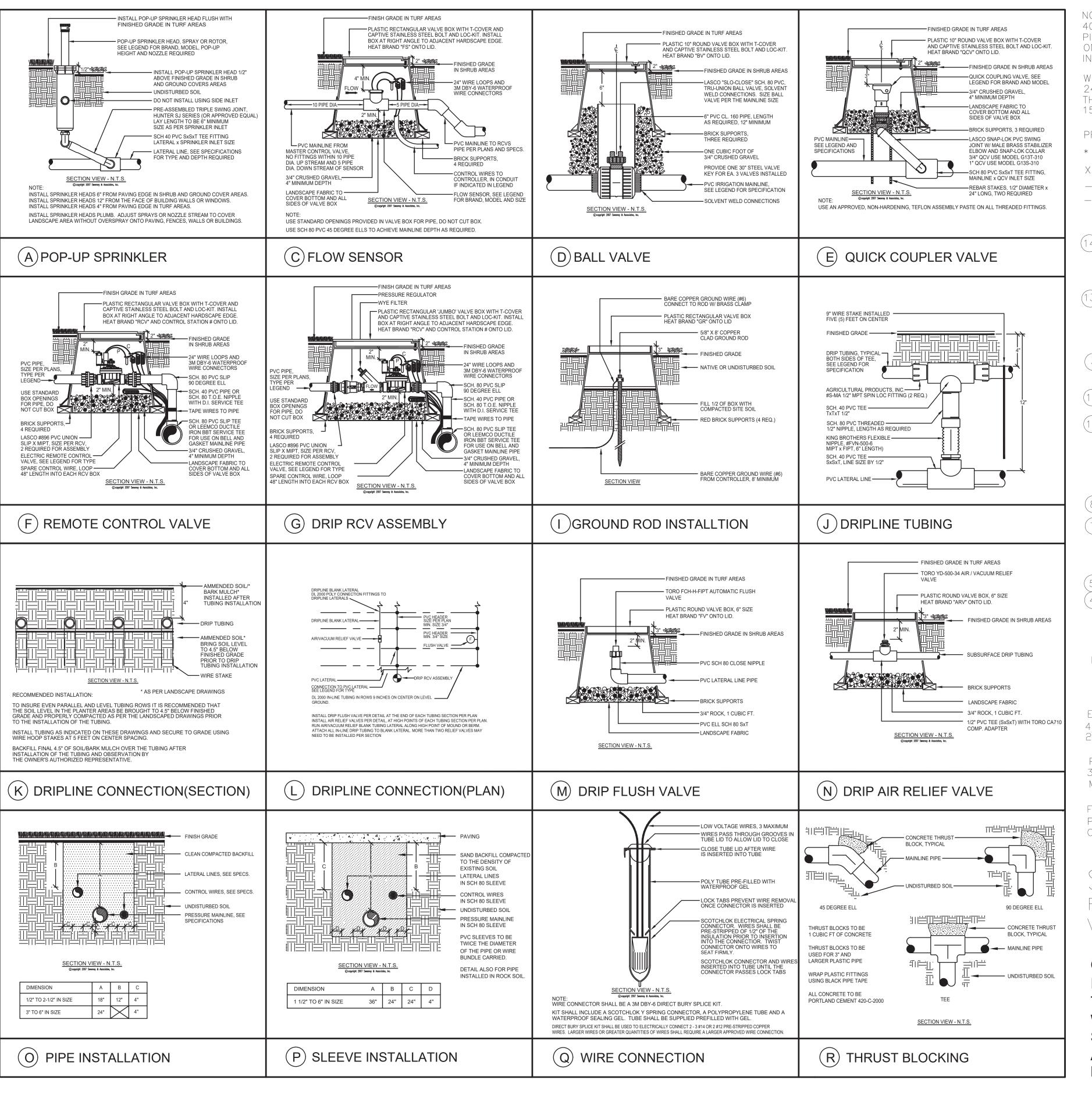


DOL West Jensen PUD, PI Parcel 6.6 IRRIGATION SCHED NOTES

MISTER CAR WASH A
JENSEN BEACH
1855 GOLDENROD RD.

1/30/24 PROJECT NO.

SHEET NUMBER L-2.1



NOTE: DISCHARGE PIPES & HEADER TO IRRIGATION MAIN SHALL BE SCHED 40 GALVANIZED STEEL PIPE WITH GALV. ROLL GROOVE FITTINGS. PUMP DROP PIPE SHALL BE HDPE HEAT FUSED OR SCHED 40 GALV. STEEL SET PUMP 60' ON 2" PIPE. INSTALL MOTOR CABLE SPLICE BETWEEN MOTOR AND CONTROL PANEL IN NEMA 4X JUNCTION BOX ADJACENT TO WELL IN ACCORDANCE WITH ELECTRICAL CODES.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL IF THE WELL PUMPING LEVEL IS GREATER THAN 50' BELOW FINISHED GRADE AFTER 8 HOURS OF CONTINUOUS PUMPING AT 150% OF THE DESIGN FLOW BELOW.

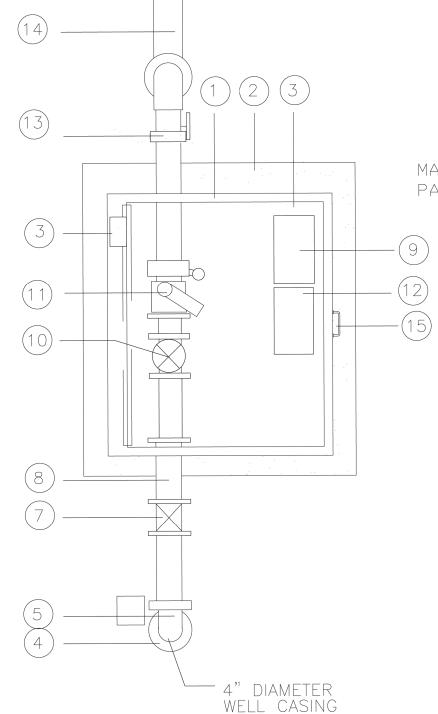
PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP SYSTEM

\* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"

X VARIABLE FREQUENCY DRIVE

\_ IRRIGATION CONTROLLER \_ STATIONS, WITH RAIN SENSOR ON 8' POLE

\_ PRESSURE TANK FOR PRESSURE DEMAND SYSTEM



SAFETY FEATURES: CLOCK START: -LOSS OF PRIME -OVERHEAT -TRANSIENT SURGE

MAINTAIN 3.5' CLEARANCE IN FRONT OF CONTROL PANEL AND 4' ALL SIDES OF PUMP SYSTEM.

> 3' X 3' FIBERGLASS REINFORCED ENCLOSURE (OPTIONAL) FOREST GREEN GELCOAT FINISH

48" X 48" REINFORCED CONCRETE PAD (4" THICK)

JUNCTION BOX WITH 110VAC POWER AND PUMP START CIRCUIT FOR CUSTOMER FURNISHED AND INSTALLED IRRIGATION CONTROLLER

WELL, JUNCTION BOX & DISCHARGE PIPE 6 SUBMERSIBLE PUMP MOTOR ASSEMBLY 3 HP

(NOT SHOWN)

7 CHECK VALVE 8 GALV. STEEL DISCHARGE

9 VARIABLE FREQUENCY DRIVE

10 FLOW METER OUTSIDE ENCLOSURE ON DISCHARGE

11 PRESSURE TRANSDUCER

12 CONTROL PANEL ASSEMBLY UL LISTED MAINTAIN 42" CLEARANCE MOUNTED ON BACK OF ENCLOSURE

13 DISCHARGE VALVE

14 3" x 36" PVC SCH 40 GROOVED NIPPLE FOR FOR TIE-IN TO IRRIGATION MAINLINE

15 LOCKABLE HANDLE

PLAN VIEW NTS

ELECTRIC SERVICE TO BE, IN ORDER OF PREFERENCE: 460V 3-PHASE, 230V CLOSED-DELTA 3-PHASE, 208 WYE 3-PHASE, 230 1-PHASE, 208V 1-PHASE, 230 OPEN-DELTA 3-PHASE.

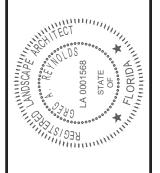
PUMP PERFORMANCE 34 GPM @ 120 TDH, 50 PSI DISCHARGE PRESSURE MINIMUM FLOW 12 GPM

FRANKLIN PUMPING MODEL: #35FA3S4-PE Pompano Beach, Florida, Tel: 954-971-7350 OR APPROVED EQUAL

SUBMERSIBLE PUMP SYSTEM DETAIL FIBERGLASS ENCLOSED SINGLE WELL SUCTION VARIABLE FREQUENCY DRIVE (VFD) CLOCK START

OR APPROVED EQUAL -**IRRIGATION CONTRACTOR** TO SUBMIT ALTERNATE PUMP WITH EQUIVALENT PERFORMANCE SPECIFICATIONS FOR REVIEW AND APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.

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Phase 10, F 6.6 DE sen PUI Parcel ( ATION Jensen IRRIG,

STER CAR WASH / JENSEN BEACH 1855 GOLDENROD RD.

1/30/24 PROJECT NO.

SHEET NUMBER

L-2.2