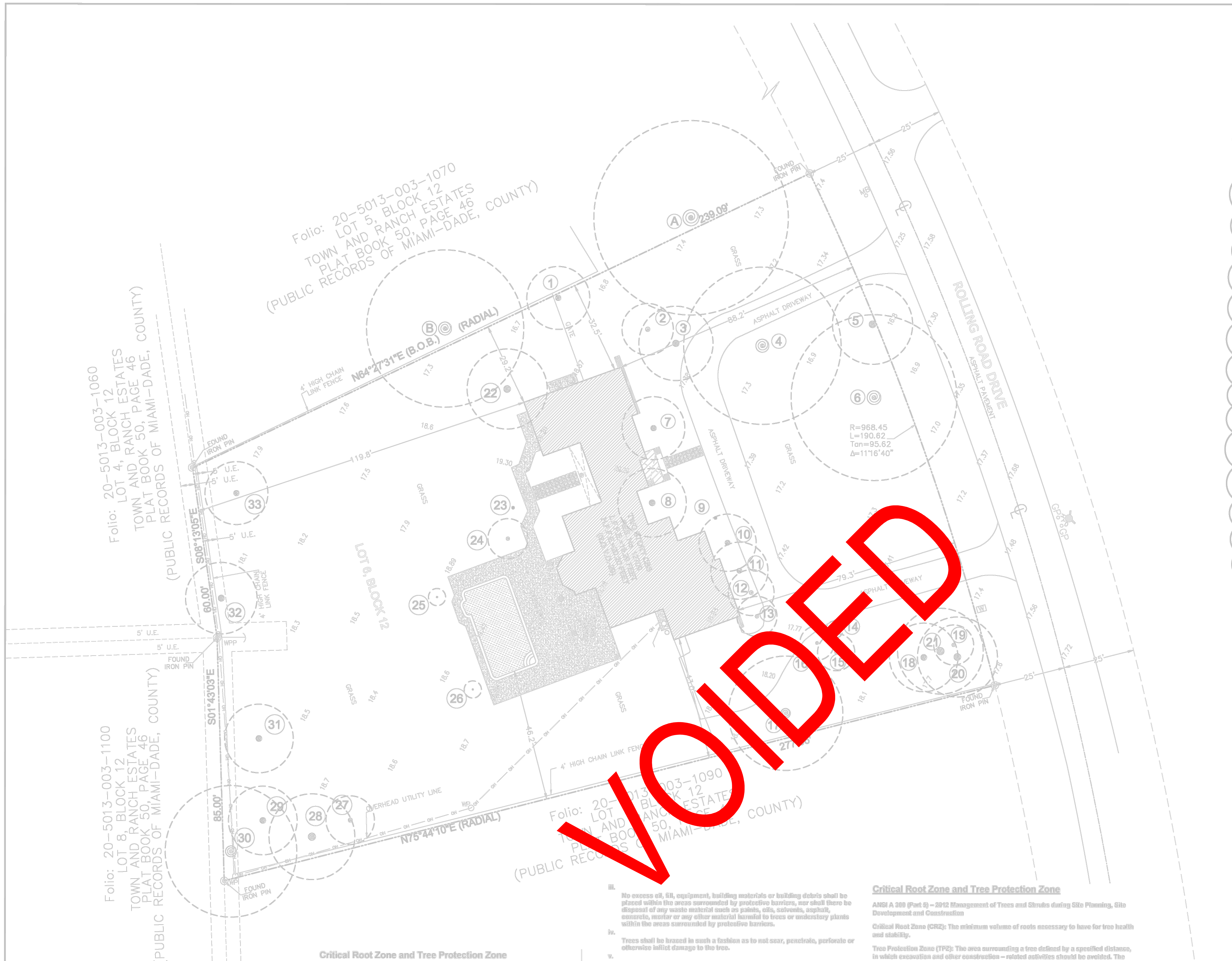


12700 Rolling Road Drive, Pinecrest
TREE DISPOSITION CHART

	Scientific name	Common name	DBH	H/Ct	Canopy	Canopy SQ FT	Condition	TPZ	NMR	Disposition
1	Schefflera actinophylla	Umbrella tree	18"	15'	22'		Invasive	6'	X	Remove
2	Syagrus romanzoffiana	Queen palm	8"	24'	18'	254	Moderate	4'		Remove
3	Syagrus romanzoffiana	Queen palm	9"	22'	26'	531	Good	4'		Remove
4	Bucida buceras	Black olive	24"	50'	55'		Good	12'		Relocate
5	Bursera simaruba	Gumbo limbo	9"	20'	28'	615	Poor	6'		Remove
6	Bucida buceras	Black olive	30"	60'	55'		Good	14'		Relocate
7	Strelitzia nicolai	White bird of paradise	4"	5'	22'		Good	4'	X	Remove
8	Ravenala madagascariensis	Traveller's tree	0	0	24'		Good	4'	X	Remove
9	Syagrus romanzoffiana	Queen palm	10"	25'	0		Dead		X	Remove
10	Phoenix roebelenii x 3 tks	Pygmy date palm	15"	5'	20'	314	Moderate	4'		Remove
11	Syagrus romanzoffiana	Queen palm	10"	28'	20'	314	Good	4'		Remove
12	Strelitzia nicolai	White bird of paradise	8"	5'	18'		Good	4'	X	Remove
13	Syagrus romanzoffiana	Queen palm	8"	10'	14'	154	Poor	4'		Remove
14	Ptychosperma elegans	Solitare palm	3"	15'	6'		Good	4'	X	Remove
15	Ptychosperma elegans x 2 tks	Solitare palm	6"	15'	15'	155	Good	4'		Remove
16	Ptychosperma elegans x 2 tks	Solitare palm	6"	15'	12'	113	Good	4'		Remove
17	Schefflera actinophylla	Umbrella tree	84"	30'	40'		Invasive	10'	X	Remove
18	Washingtonia filifera	Washingtonia palm	6"	14'	24'	452	Good	4'		Remove
19	Washingtonia filifera	Washingtonia palm	0	0	14'		Moderate	6'	X	Remove
20	Schefflera actinophylla	Umbrella tree	15"	23'	25'		Invasive	8'	X	Remove
21	Coccoloba uvifera	Seagrape	17"	15'	30'	707	Poor	8'		Remove
22	Syagrus romanzoffiana	Queen palm	9"	28'	28'	615	Good	4'		Remove
23	Phoenix roebelenii	Pygmy date palm	5"	8'	0		Dead		X	Remove
24	Phoenix roebelenii x 2 tks	Pygmy date palm	8"	8'	14'		Moderate	4'		Remove
25	Washingtonia species	Washingtonia palm	8"	18'	6'		Good	4'		Remove
26	Washingtonia species	Washingtonia palm	8"	14'	6'		Moderate	4'		Remove
27	Sabal palmetto	Sabal palm	0	4'	17'		Good	4'	X	Remove
28	Mangifera indica	Mango	22"	33'	30'		Good	8'		Remove
29	Callistemon viminalis	Bottlebrush	11"	20'	24'		Moderate	6'		Remove
30	Quercus virginiana	Live oak	25"	60'	46'		Good	14'		Relocate
31	Callistemon viminalis	Bottlebrush	11"	22'	24'		Moderate	6'		Remove
32	Schefflera actinophylla	Umbrella tree	12"	18'	23'		Invasive	6'		Remove
33	Mangifera indica	Mango	16"	20'	22'		Poor	6'		Remove
A	Cassia fistula	Golden shower	44"	70'	68'		NA	18'		Remain
B	Pseudobombax ellipticum	Shaving brush tree	46"	50'	55'		NA	18'		Remain

DBH is rounded-off to the nearest inch
DBH is measured at 4.5 feet above grade
A "0" in the DBH column denotes no trunk at 4.5 feet above grade
Canopy diameter is approximate and measured in one direction
H/Ct denotes approximate overall height of trees and approximate overall height of clear trunk on palms

MITIGATION CALCULATION
Trees/Palm Less than 18" DBH
Total Canopy SF to be removed — 5,316 SF
Total Canopy SF Provided — 47,800 SF

Trees/Palms 18" DBH or above
Total DBH inches to be removed — N/A

Fruit Trees (1 : 1 Ratio)
Total Fruit Trees to be Removed — (2) Fruit Trees #'s 28 & 33
Total Trees Provided — 2

Tree Mitigation Calculation Table

Proposed Quantity	Tree Category	Min. Hgt.	Min. Cal.	SF Credit	Total Credit
0	Cat. 1	26'-35'	10"-12"	1,500	0
8	Cat. 2	19'-25'	7"-9"	1,000	8,000
37	Cat. 3	15'-18'	5"-6"	700	25,900
14	Cat. 4	14'	4"	500	7,000
4	Cat. 5	12'	2"	300	1,200
19	Cat. 1 Palm	10'		300	5,700
0	Cat. 2 Palm	3'		100	
0	Small Trees	6'		200	

Total SF Canop 47,800 SF

NMR Indicates NO MITIGATION Required due to the existing tree/palm condition (Invasive Species, Evidence of Ganoderma, Decaying Poor Trunk Connection, Dead Tree/Palm, Conflict with existing Power Line, located in U.E., Size of caliper and/or any other condition that the certified arborist has mentioned on the EXISTING TREE EVALUATION REPORT)

TREE MITIGATION calculations have been prepared based on the Existing Tree Inventory Report (by certified arborist) and in accordance to Village of Pine Crest; Article 6, Environmental Regulations Department; Tree Preservation and Potection Ordinanse; however, such calculations are subject to change at the discretion of the regulatory agency reviewer of such department.

If there is a deficit in Tree Mitigation, the respective fee for such Deficit in Trees and/or Palms will be paid to the Tree Trust Fund by the Client accordingly.
The fee will be determined by the reviewer.

1

ANSI A300 (Part 5) - 2005, Annex A

Management report information

Examples of suitability ratings

Good: These are trees with good health and structural stability that have the potential for longevity at the site.

Moderate: Trees in this category have fair health and/or structural defects that may be abated with treatment. Trees in this category require more intense management and monitoring, and may have shorter life-spans than those in the "good" category.

Poor: Trees in this category are in poor health or have significant defect s in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas.

The suitability ratings given are also based upon the Tree Risk Assessment Second Edition of the Best Management Practices a companion publication to the ANSI A300 Part 9 Tree Risk Assessment.

These suitability ratings are:

Extreme: I recommend the IMMEDIATE removal of these trees or palms. I will rate these trees or palms to be in POOR condition in my Appendix A matrix.

High: This corresponds to the POOR rating above where I recommend the removal of these trees or palms.

Moderate: This corresponds to the MODERATE rating in Appendix A.

Low: This corresponds to the GOOD rating in Appendix A.

Critical Root Zone and Tree Protection Zone

ANSI A 300 (Part 5) – 2012 Management of Trees and Shrubs during Site Planning, Site Development and Construction

Critical Root Zone (CRZ): The minimum volume of roots necessary to have for tree health and stability.

Tree Protection Zone (TPZ): The area surrounding a tree defined by a specified distance, in which excavation and other construction – related activities should be avoided. The TPZ is variable depending on species, factors, age and health of the plant, soil conditions, and proposed construction. The zone may be accomplished by physical barriers or soil protection layers or treatments.

ANSI A300 (Part 5) – 2012 54.7

A tree protection zone (TPZ) shall be delineated around all trees to be protected during a project

- 54.7.1 The area and dimensions of the TPZ should be calculated on the basis of species tolerance, age, and health, root structure, rooting depth and soil conditions.

Village of Pinecrest Tree Protection

ARTICLE 6. - ENVIRONMENTAL REGULATIONS

Tree protection requirements during construction.

a.

Protection requirements. During site development, protection requirements for trees designated for preservation under an approved tree removal permit shall include, but not be limited to, the following:

i.

Protective barriers shall be placed around each tree, cluster of trees, or the edge of the preservation area no less than six feet (in radius) from the trunk of any protected tree cluster, or preservation area unless a lesser distance is specified by the administrative official. Protective barriers shall be a minimum of four feet above ground level and shall be constructed of wood, plastic or metal, and shall remain in place until development is completed and the administrative official has authorized their removal. Protective barriers shall be in place prior to the start of any construction.

ii.

Understory plants within protective barriers shall be protected.

iii.

No excess oil, fill, equipment, building materials or building debris shall be placed within the areas surrounded by protective barriers, nor shall there be disposal of any waste material such as paints, oils, solvents, asphalt, concrete, mortar or any other material harmful to trees or understory plants within the areas surrounded by protective barriers.

iv.

Trees shall be braced in such a fashion as to not scar, penetrate, perforate or otherwise inflict damage to the tree.

v.

Natural grade shall be maintained within protective barriers. In the event that the natural grade of the site is changed as a result of site development such that the safety of the tree may be endangered, tree wells or retaining walls are required.

vi.

Underground utility lines shall be placed outside the areas surrounded by protective barriers. If said placement is not possible, disturbance shall be minimized by using techniques such as tunneling or overhead utility lines.

vii.

Fences and walls shall be constructed to avoid disturbance to any protected tree. Post holes and trenches located close to trees shall be dug by hand and adjusted as necessary, using techniques such as discontinuous footings, to avoid damage to major roots.

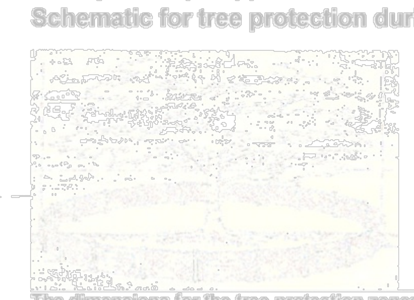
viii.

Root barriers shall be installed with the planting of new trees in instances where there is a likely possibility that future root growth will cause damage to foundations, driveways, utilities, or other infrastructure.

b.

Replacement. If these tree protection regulations are not adhered to by the permittee and the trees are effectively destroyed, then all such trees shall be replaced according to the standards of these regulations, in addition to being subject to the penalty provisions of the Code.

Schematic for tree protection during construction



The dimensions for the tree protection zones for all trees to remain onsite are shown on this sheet tree disposition chart. This area shall be encircled with a 4 foot high sturdy fence supported by steel rods or pipes to support the fence every 6 feet. There shall be signage on the fence in English and Spanish not allowing storage of any materials, change of grade or movement of equipment. This fence shall be inspected regularly by the contractor to ensure compliance.

Critical Root Zone and Tree Protection Zone

ANSI A 300 (Part 5) – 2012 Management of Trees and Shrubs during Site Planning, Site Development and Construction

Critical Root Zone (CRZ): The minimum volume of roots necessary to have for tree health and stability.

Tree Protection Zone (TPZ): The area surrounding a tree defined by a specified distance, in which excavation and other construction – related activities should be avoided. The TPZ is variable depending on species, factors, age and health of the plant, soil conditions, and proposed construction. The zone may be accomplished by physical barriers or soil protection layers or treatments.

ANSI A300 (Part 5) – 2012 54.7

A tree protection zone (TPZ) shall be delineated around all trees to be protected during a project.

- 54.7.1 The area and dimensions of the TPZ should be calculated on the basis of species tolerance, age, and health, root structure, rooting depth, and soil conditions.

Root Management – Special companion publication to the ANSI A300 Part 8: Tree, Shrub, and Other Woody Plant Management-Standard Practices (Root Management)

Consequences of Root Pruning on Tree Stability

Root loss can affect tree health and stability. Cutting roots at a distance greater than six times the trunk diameter (dbh) minimizes the likelihood of affecting both health and stability. At this distance, approximately 25% of the root system would be lost. Cutting root any closer to the tree is more likely to compromise stability.

Linear cuts on one side of a tree can reduce stability when the cut is made at a distance from the trunk that is less than three times the trunk diameter. Severe loss of stability is common when cuts are made at a distance that is less than 1 to 1.5 times the trunk diameter. If a linear cut is made at the trunk, nearly all species will have a reduction in stability.

REMOVAL APPROVED UNDER PERMIT PZ2023-0193 FOR REFERENCE ONLY.
NOT TO SCALE

N

LEWIS AQUI Digitally signed by LEWIS AQUI Date: 2023.08.23 09:33:29 -04'00'

LEWIS AQÜÍ
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SHEET TITLE: TREE DISPOSITION PLAN

DATE: 04/28/2023

DESIGN: L.A

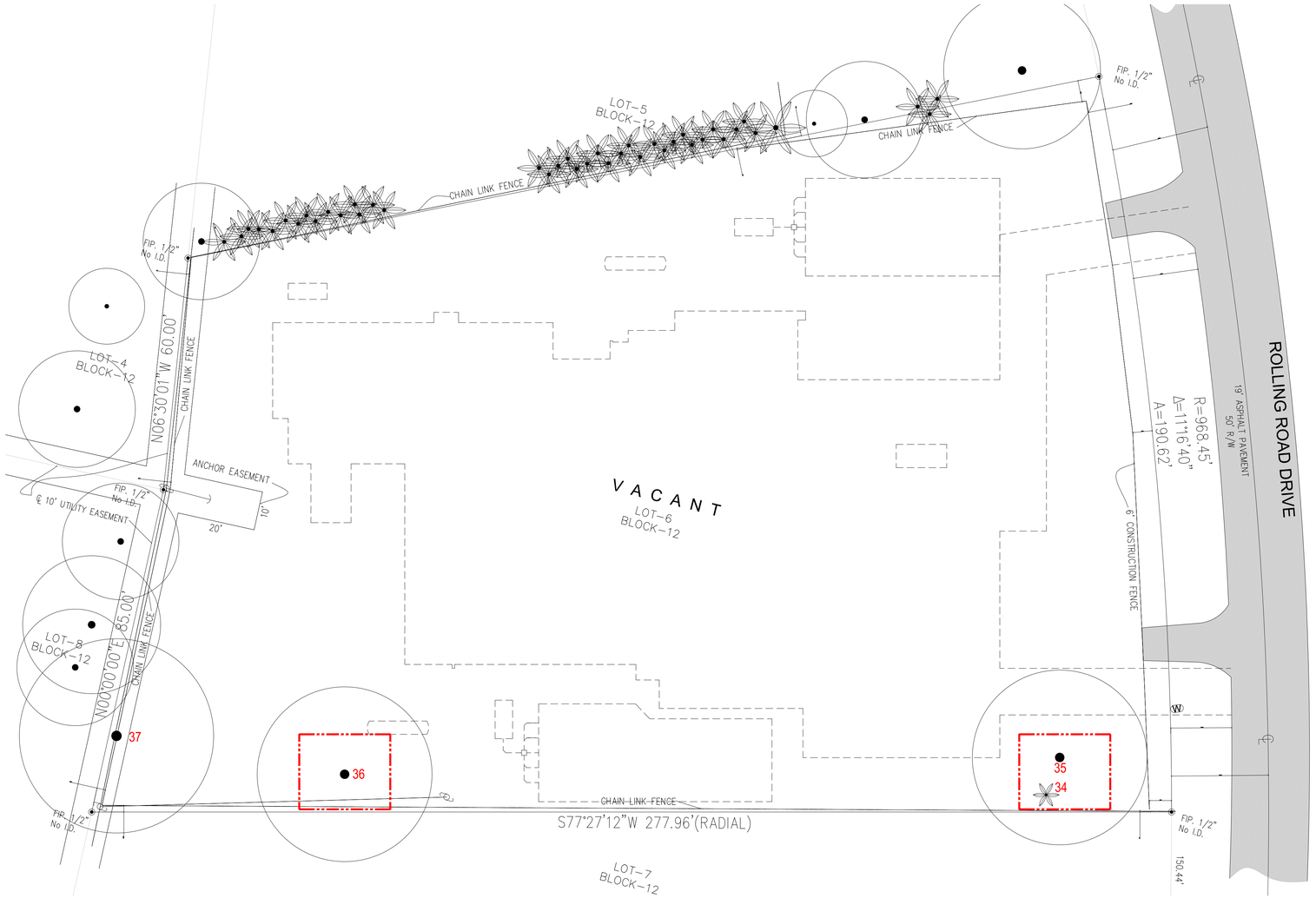
DRAWN: L.G

SCALE: 1/16" =1'-0"

REVISIONS: 1 AS PER PAT JANISSE COMMENTS 07-13-23

SEAL: REGISTERED LANDSCAPE ARCHITECT LEWIS AQUI LA6667140 STATE OF FLORIDA

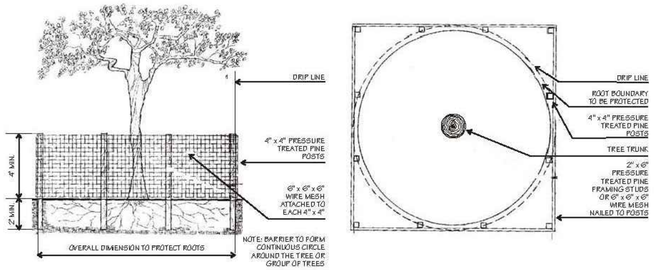
SHEET TD1 OF 1



TREE DISPOSITION PLAN

SCALE: 1/16"=1'-0"

IT IS CRITICAL TO EXISTING TREE SURVIVAL TO PROVIDE PROTECTION DURING CONSTRUCTION. THIS DETAIL CAN BE USED AROUND ONE OR MORE TREES AND WILL PROVIDE PROTECTION FROM CONSTRUCTION EQUIPMENT.



° WIRE MESH BARRIER DETAIL °

° WOOD BARRIER DETAIL PLAN °

TREE PROTECTION DETAIL

N.T.S

TREE DISPOSITION LEGEND

TREE #	COMMON NAME	SCIENTIFIC NAME	HT (ft)	DBH (in)	SP (ft)	NATIVE	CONDITION	DISPOSITION	TYPE	SPECIMEN
34	Alexander palm	*Archontophoenix alexandrae*	4	20	5	NO	FAIR	REMAIN	PALM	NO
35	Black olive	*Bucida buceras*	38	35	45	YES	FAIR	REMAIN	TREE	YES
36	Black olive	*Bucida buceras*	29	35	45	YES	FAIR	REMAIN	TREE	YES
37	Live oak	*Quercus virginiana*	28	30	50	YES	FAIR	REMAIN	TREE	YES

SYMBOL LEGEND

- EXISTING PALM TO REMAIN
- EXISTING TREE TO REMAIN
- EXISTING PALM TO RELOCATE
- EXISTING TREE TO RELOCATE
- EXISTING PALM TO REMOVE
- EXISTING TREE TO REMOVE
- TREE PROTECTION ZONE

Felix D Guerra

Digitally signed by Felix D Guerra
DN: c=US, o=D and SG Engineering Group INC, dnQualifier=A01410D000001BCB654381700161F805, cn=Felix D Guerra
Date: 2025.05.27 11:31:11 -04'00'
Adobe Acrobat version: 2025.001.20474

JD MIAMI
GENERAL CONTRACTOR
JD ENGINEERING & CONSTRUCTION, CORP.
DBA: JD-MIAMI
Yoel Ortiz, CGC: 1522799, CPC: 1458944.
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OWNER:
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NEW SINGLE FAMILY RESIDENCE
12700 ROLLING ROAD DR.
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SHEET TITLE:
TREE DISPOSITION PLAN

LANDSCAPE CONSULTANT:

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L-100

ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-05-23

SHRUBS & GROUNDCOVERS LEGEND

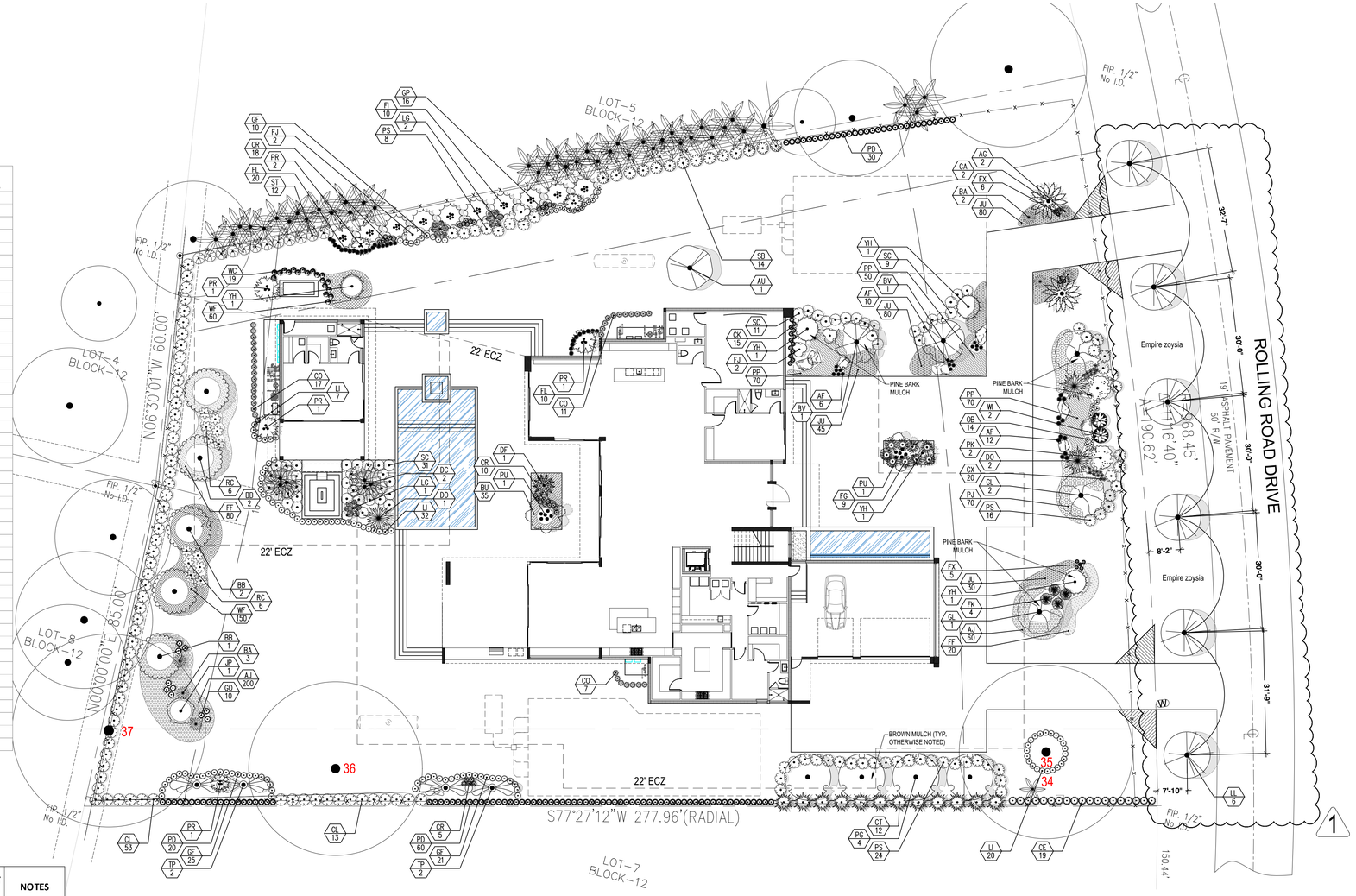
TAG	COMMON NAME	SCIENTIFIC NAME	SIZE	QTY	NATIVE	DROUGH TOLERANCE	LOW MAINT.
		SHRUBS					
TP	Traveler palm	*Ravenala madagascariensis*	45 gal. 8' ht	4	NO	NO	YES
PS	Philodendron selloum	*Thaumatophyllum bipinnatifidum*	7 gal.	48	NO	YES	YES
SC	Swiss cheese plant	*Monstera deliciosa*	7 gal.	51	NO	NO	NO
WC	Wild coffee	*Psychotria nervosa*	7 gal. 36"	19	YES	YES	YES
ST	Spanish Stopper	*Eugenia foetida*	7 gal. 36"	12	YES	YES	YES
PD	Podocarpus	*Podocarpus macrophyllus*	7 gal. 36"	110	NO	YES	YES
CK	Cordyline 'Kiwi'	*Cordyline fruticosa 'Kiwi'*	7 gal.	15	NO	NO	YES
CX	Cordyline 'Xerox'	*Cordyline fruticosa 'Xerox'*	7 gal.	20	NO	NO	YES
CR	Cordyline 'Red sister'	*Cordyline fruticosa 'Red sister'*	7 gal.	33	NO	NO	YES
FK	Fakahatchee grass	*Tripsacum dactyloides*	7 gal.	4	YES	YES	YES
FG	Florida gamma grass	*Tripsacum floridana*	7 gal.	9	YES	YES	YES
CO	Red tip cocoplum	*Chrysobalanus icaco*	7 gal. 36" ht	35	YES	YES	YES
BA	Alcantarea bromeliad	*Alcantarea 'Odorata'*	7 gal.	5	NO	YES	YES
AG	Soft tip agave	*Agave attenuata*	7 gal.	2	NO	YES	YES
GF	Green island ficus	*Ficus microcarpa 'Green Island'*	3 gal.	56	NO	YES	YES
GP	Gold capella	*Schefflera arboricola 'Gold capella'*	7 gal.	16	NO	YES	YES
DO	Giant Dioon	*Dioon spinulosum*	25 gal.	3	NO	YES	YES
DF	Encephalartos ferox	*Encephalartos ferox*	25 gal.	1	NO	YES	YES
OB	Orange bird of paradise	*Strelitzia reginae*	7 gal.	14	NO	YES	YES
SB	Starburst Clerodendrum	*Clerodendrum quadriloculare*	15 gal.	14	NO	YES	YES
CE	Green buttonwood	*Conocarpus erectus*	7 gal.	19	YES	YES	YES
CL	Clusia	*Clusia guttifera*	7 gal.	66	NO	YES	YES
			TOTAL	**556**		**98**	**433**	**505**
		GROUNDCOVERS					
AJ	Asiatic jasmine	*Trachelospermum asiaticum*	1 gal. @12"	260	NO	YES	YES
FF	Fishtail Fern	*Nephrolepis falcata*	3 gal. @18"	100	YES	YES	YES
WF	Wart fern	*Microsorum scolopendria*	1 gal. @12"	210	NO	NO	NO
JU	Juniperus chinensis 'Parsonii'	*Juniperus chinensis 'Parsonii'*	3 gal. @12"	235	NO	YES	YES
PJ	Pinwheel jasmine	*Tabernaemontana divaricata*	3 gal. @18"	170	NO	YES	YES
PP	Perennial peanut	*Arachis glabrata*	1 gal. @12"	190	NO	YES	YES
FX	Foxtail fern	*Asparagus densiflorus 'Myers'*	3 gal. @18"	11	NO	YES	YES
BU	Philodendron 'Burle Marx'	*Philodendron burle-marxii*	3 gal. @18"	35	NO	YES	YES
LI	Liriope	*Liriope muscaris*	3 gal.	59	NO	NO	YES
RC	Philodendron 'rojo Congo'	Philodendron 'rojo Congo'	3 gal.	12	NO	YES	YES
AF	Giant african lily	*Agapanthus orientalis*	3 gal.	28	NO	NO	YES
GO	Ground orchids	*Spathoglottis ssp.*	4 gal.	10	NO	NO	NO
FL	Flax lily	*Dianella tasmanica*	3 gal.	30	NO	YES	YES
			TOTAL	**1350**		**100**	**1043**	**1130**
		MISC					
-	Empire Zoysia (1)		SF	20,000	NO	YES	YES
-	Boulders (apprx 2'x3') dark color		Units	8	-	-	-
-	Pine bark mulch		SF	250	-	-	-
-	Brown mulch		SF	3,000	-	-	-

TREES AND PALMS LEGEND

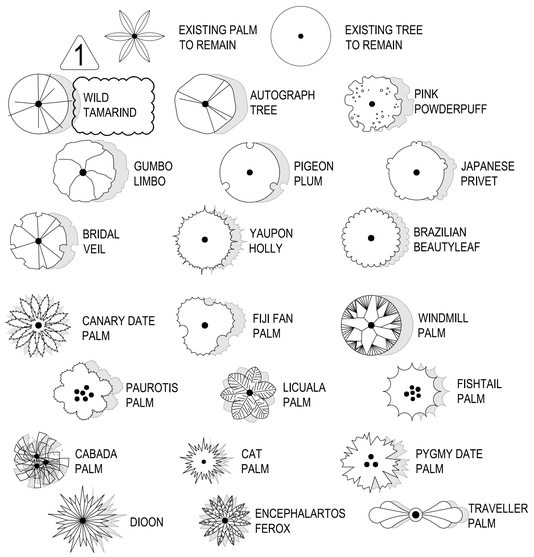
TAG	COMMON NAME	SCIENTIFIC NAME	SIZE DBH (in)	SIZE HT (ft)	SIZE SP (ft)	QTY	NATIVE	DROUGH TOL.	LOW MAINT.	CANOPY RPL	NOTES
		TREES									
LL	Wild tamarind (1)	*Lysiloma latisiliquum*	3	18	6	6	YES	YES	YES	3,000	
GL	Gumbo limbo	*Bursera simaruba*	3	18	6	3	YES	YES	YES	1,500	
BV	Bridal veil	*Caesalpinia granadillo*	3	18	6	2	NO	YES	YES	1,000	
BB	Brazilian beautyleaf	*Calophyllum inophyllum*	3	18	6	5	NO	YES	YES	2,500	
AU	Autograph tree	*Clusia rosea*	3	18	6	1	YES	YES	YES	500	
PG	Pigeon plum	*Coccoloba diversifolia*	3	18	6	4	YES	YES	YES	2,000	Low branched
YH	Yaupon holly	*Ilex vomitoria*	2	6	4	5	YES	YES	YES	1,000	Low branched
JP	Japanese privet	*Ligustrum japonicum*	2	6	4	1	NO	YES	YES	200	
PK	Pink powderpuff	*Calliandra surinamensis*	2	6	4	2	NO	YES	YES	400	Low branched
					TOTAL	**29**	**19**	**29**	**29**	**12,100**	
		PALMS									
CA	Canary date palm	*Phoenix canariensis*	6	18 OA	8	2	NO	YES	YES	600	
PU	Paurotis palm	*Acoelorrhaphe wrightii*	3,3,3	18 OA	8	2	YES	YES	YES	600	Multitrunk
DC	Cabada palm (multitrunk)	*Dypsis cabadae*	3,3,3	18 OA	8	2	NO	YES	YES	600	Multitrunk
FI	Fishtail palm	*Caryota mitis*	3,3,3	18 OA	8	10	NO	YES	YES	3,000	Multitrunk
PR	Pygmy date palm (triple)	*Phoenix roebelenii*	3,3,3	6 OA	6	6	NO	YES	YES	600	Triple trunk
CT	Cat palm	*Chamaedorea cataractarum*	3,3,3	6 OA	6	12	NO	YES	YES	1,200	Multitrunk
FJ	Fiji Fan Palm	*Pritchardia pacifica*	2	6 OA	6	4	NO	YES	YES	400	
WI	Windmill Palm	*Trachycarpus fortunei*	2	6 OA	6	2	NO	YES	YES	200	
LG	Licuala grandis	*Licuala grandis*	2	6 OA	6	3	NO	YES	YES	300	
					TOTAL	**43**	**2**	**43**	**43**	**7,500**	
CANOPY PROVIDED =										**19,600**	
CANOPY REQUIRED =										**5,316**	

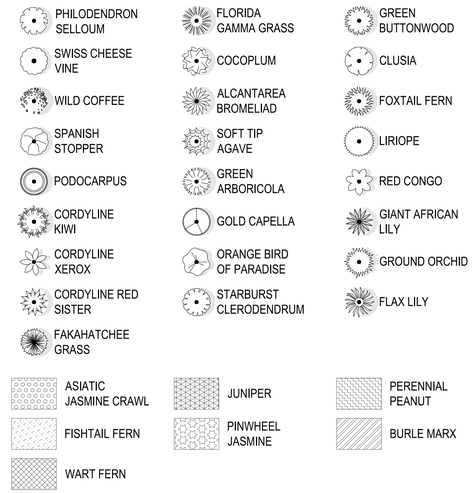
EXISTING TO REMAIN TREES AND PALMS

TREE #	COMMON NAME	SCIENTIFIC NAME	HT (ft)	DBH (in)	SP (ft)	NATIVE	CONDITION	DISPOSITION	TYPE	SPECIMEN
34	Alexander palm	*Archontophoenix alexandrae*	4	20	5	NO	FAIR	REMAIN	PALM	NO
35	Black olive	*Bucida buceras*	38	35	45	YES	FAIR	REMAIN	TREE	YES
36	Black olive	*Bucida buceras*	29	35	45	YES	FAIR	REMAIN	TREE	YES
37	Live oak	*Quercus virginiana*	28	30	50	YES	FAIR	REMAIN	TREE	YES



SYMBOL LEGEND





LANDSCAPE PLAN

SCALE: 1/16"=1'-0"

COMPLIANCE LEGEND

ZONING: EU-1
LOT AREA: 38,768 SF (0.89 AC)

	REQUIRED	PROVIDED
Number of trees req. per acre of net lot area (18 X 0.89):	16	26
Palms as lot trees (2 palms:1 tree) 30% max:	10:5	44
Native trees 30%:	5	22
Min. Energy conservation zone trees:	3	5
Street trees @ 30' (190.62' / 30'):	6	6
Palms as street trees (2 palms:1 tree) 30% max:	4:2	0
Shrubs required 10 x req. lot tree:	160	556
Native shrubs 30% req. shrubs:	48	98

Felix D Guerra

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DN: c=US, o=D and SG Engineering Group INC, dnQualifier=A01410D0000018CB65438170016F805, cn=Felix D Guerra
Date: 2025.05.27 11:31:29 -04'00'
Adobe Acrobat version: 2025.001.20474

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SHEET TITLE:
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REVISIONS:
1 2025.04.24 CITY COMMENTS

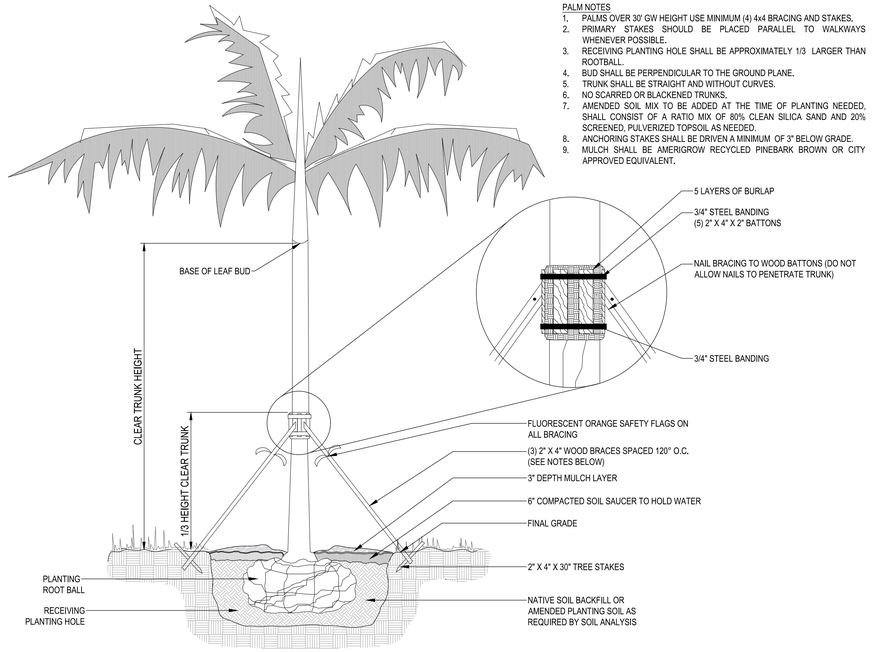
JOB: 12700

SHEET: L-200

ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-05-23

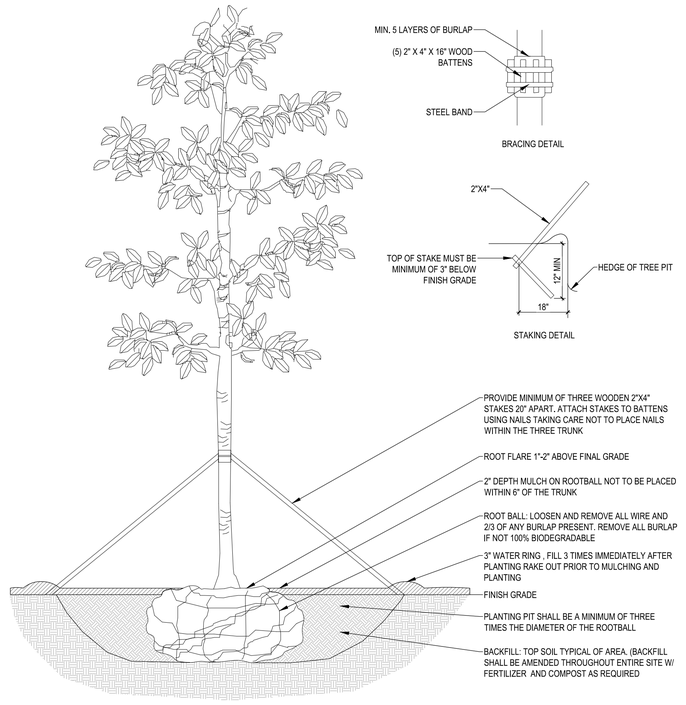
LANDSCAPE NOTES

1. MULCH IN ALL SHRUB BEDS,TO BE SHREDDED MELALEUCA ('ENVIRO MULCH'). INSTALL 3" DEEP IN ALL SHRUB AREAS.
2. GUARANTEE: THERE SHALL BE A ONE YEAR GUARANTEE ON ALL PLANT MATERIALS INSTALLED AT THIS SITE. WARRANTY TO BE PROVIDED BY THE SUB CONTRACTOR RESPONSIBLE FOR INSTALLATION. DEFECTIVE OR DYING PLANTS SHALL BE REPLACED WITHIN 2 WEEKS OF NOTIFICATION SUCH PLANTS NEED TO BE REPLACED.
3. ALL PLANT MATERIALS SHALL CONFORM TO, OR EXCEED, THE MINIMUM STANDARDS FOR FLORIDA NO. 1 GRADE OR EQUIVALENT IN THE MOST CURRENT EDITION OF THE FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS PREPARED BY THE STATE OF FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
4. TREE STAKING: THE SUB CONTRACTOR SHALL MAINTAIN ALL TREE SUPPORTS FOR ONE YEAR. THIS SHALL INCLUDE ADJUSTMENTS TO SUPPORTS TO INSURE ALL TREE TRUNKS ARE MAINTAINED IN A VERTICAL POSITION. AFTER ONE YEAR THE SUB CONTRACTOR WILL REMOVE ALL STAKES AND RELATED MATERIALS.
5. PLANTING PLANS SHALL TAKE PRECEDENCE OVER PLANT LIST IN CASE OF DISCREPANCIES.
6. NO CHANGES ARE TO BE MADE WITHOUT THE PRIOR CONSENT OF THE LANDSCAPE ARCHITECT AND OWNER. ADDITIONS AND OR DELETIONS TO THE PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
7. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN SQUARE FOOTAGE TAKEOFFS AND FIELD VERIFICATION FOR 100% SOD COVERAGE FOR ALL AREAS SPECIFIED.
8. ALL LANDSCAPE AREAS ARE TO BE PROVIDED WITH AUTOMATIC SPRINKLER SYSTEM WHICH PROVIDE 100% COVERAGE, AND 50% OVERLAP.
9. ALL TREES IN LAWN AREAS ARE TO RECEIVE A 24" DIAMETER MULCHED SAUCER AT THE BASE OF THE TRUNK.
10. TREES ARE TO BE PLANTED WITHIN PARKING ISLANDS AFTER SOIL IS BROUGHT UP TO GRADE. DEEPLY SET ROOT BALLS ARE NOT ACCEPTABLE.
11. PLANTING SOIL FOR TOPSOIL AND BACKFILL SHALL BE 50/50 MIX, NEMATODE FREE. PLANTING SOIL FOR ANNUAL BEDS TO BE COMPRISED OF 50% CANADIAN PEAT MOSS, 25% SALT FREE COARSE SAND AND 25% AEROLITE.
12. TREE AND SHRUB PITS WILL BE SUPPLEMENTED WITH "AGRIFORM PELLS", 21 GRAM SIZE WITH A 20-10-5 ANALYSIS, OR SUBSTITUTE APPLICATION ACCEPTED BY LANDSCAPE ARCHITECT. DELIVER IN MANUFACTURER'S STANDARD CONTAINERS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER.
13. THE LANDSCAPE CONTRACTOR IS TO LOCATE AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO BEGINNING WORK. CONTACT PROPER UTILITY COMPANIES AND / OR GENERAL CONTRACTOR PRIOR TO DIGGING FOR FIELD VERIFICATION. THE OWNER AND THE LANDSCAPE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES TO UTILITY OR IRRIGATION LINES (SEE ROADWAY PLANS FOR MORE UTILITY NOTES).
14. LANDSCAPE CONTRACTOR IS TO VERIFY ALL CURRENT DRAWINGS AND CHECK FOR DISCREPANCIES AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING WITH THE WORK.
15. ALL UNATTENDED AND UNPLANTED TREE PITS ARE TO BE PROPERLY BARRICADED AND FLAGGED DURING INSTALLATION.
16. ALL PLANTING PLANS ARE ISSUED AS DIRECTIVES FOR SITE LAYOUT. ANY DEVIATIONS, SITE CHANGES, ETCETERA ARE TO BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION.
17. SOD IS TO BE GRADE "A" WEED FREE.
18. ALL AREAS MARKED "LAWN" SHALL BE SOLID SODDED WITH ST. AUGUSTINE 'FLORATAM' SOLID SOD.
19. PROVIDE A 2" DEEP BLANKET OF PLANTING SOIL AS DESCRIBED IN PLANTING NOTES THIS SHEET, PRIOR TO PLANTING. REMOVE STONES, STICKS, ETC. FROM THE SUB SOIL SURFACE. EXCAVATE EXISTING NON-CONFORMING SOIL AS REQUIRED SO THAT THE FINISH GRADE OF SOD IS FLUSH WITH ADJACENT PAVEMENT OR TOP OF CURB AS WELL AS ADJACENT SOD IN THE CASE OF SOD PATCHING.
20. PLACE SOD ON MOISTENED SOIL, WITH EDGES TIGHTLY BUTTED, IN STAGGERED ROWS AT RIGHT ANGLES TO SLOPES.
21. KEEP EDGE OF SOD BED A MINIMUM OF 18" AWAY FROM GROUNDCOVER BEDS AND 24" AWAY FROM EDGE OF SHRUB BEDS AND 36" AWAY FROM TREES, MEASURED FROM CENTER OF PLANT.
22. SOD SHALL BE WATERED IMMEDIATELY AFTER INSTALLATION TO UNIFORMLY WET THE SOIL TO AT LEAST 2" BELOW THE BOTTOM OF THE SOD STRIPS.
23. EXCAVATE AND REMOVE EXCESS SOIL SO TOP OF SOD IS FLUSH WITH TOP OF CURB OR ADJACENT PAVEMENT OR ADJACENT EXISTING SOD.

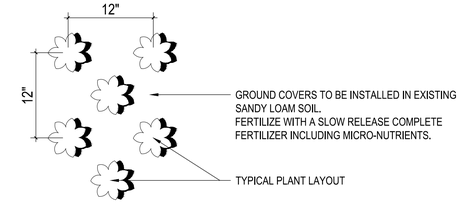


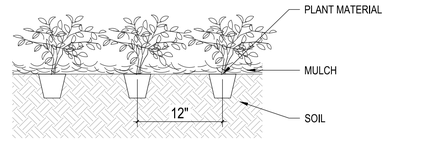
PALM NOTES
1. PALMS OVER 30' GW HEIGHT USE MINIMUM (4) 4x4 BRACING AND STAKES.
2. PRIMARY STAKES SHOULD BE PLACED PARALLEL TO WALKWAYS WHENEVER POSSIBLE.
3. RECEIVING PLANTING HOLE SHALL BE APPROXIMATELY 1/3 LARGER THAN ROOTBALL.
4. BUD SHALL BE PERPENDICULAR TO THE GROUND PLANE.
5. TRUNK SHALL BE STRAIGHT AND WITHOUT CURVES.
6. NO SCARRED OR BLACKENED TRUNKS.
7. AMENDED SOIL MIX TO BE ADDED AT THE TIME OF PLANTING NEEDED, SHALL CONSIST OF A RATIO MIX OF 80% CLEAN SILICA SAND AND 20% SCREENED, PULVERIZED TOPSOIL AS NEEDED.
8. ANCHORING STAKES SHALL BE DRIVEN A MINIMUM OF 3" BELOW GRADE.
9. MULCH SHALL BE AMERIGROW RECYCLED PINEBARK BROWN OR CITY APPROVED EQUIVALENT.

1 TYPICAL PALM PLANTING PLAN
SCALE: NTS

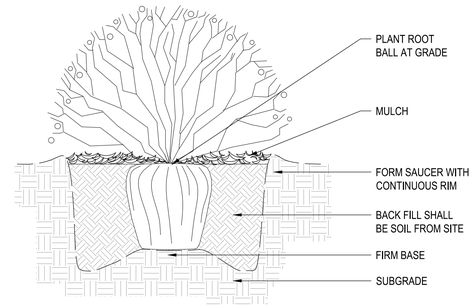


2 TREE PLANTING AND BRACING DETAIL WITH A CALIPER OF 2.5" OR GREATER
SCALE: NTS

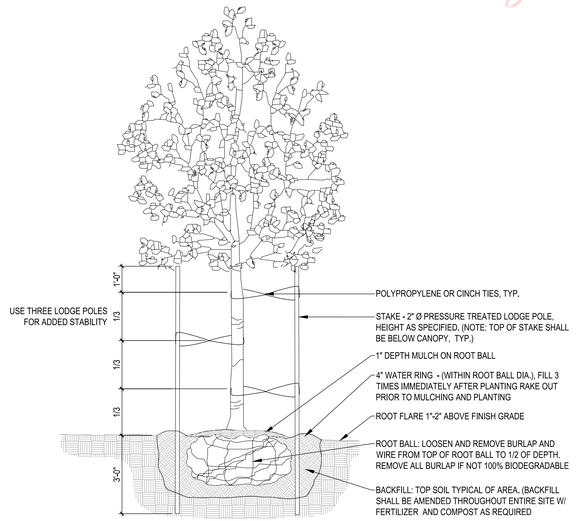




4 GROUNDCOVER PLANTING DETAIL
SCALE: NTS



5 SHRUBS PLANTING DETAIL
SCALE: NTS



3 TREE PLANTING AND BRACING DETAIL WITH A CALIPER UP TO 2.5"
SCALE: NTS

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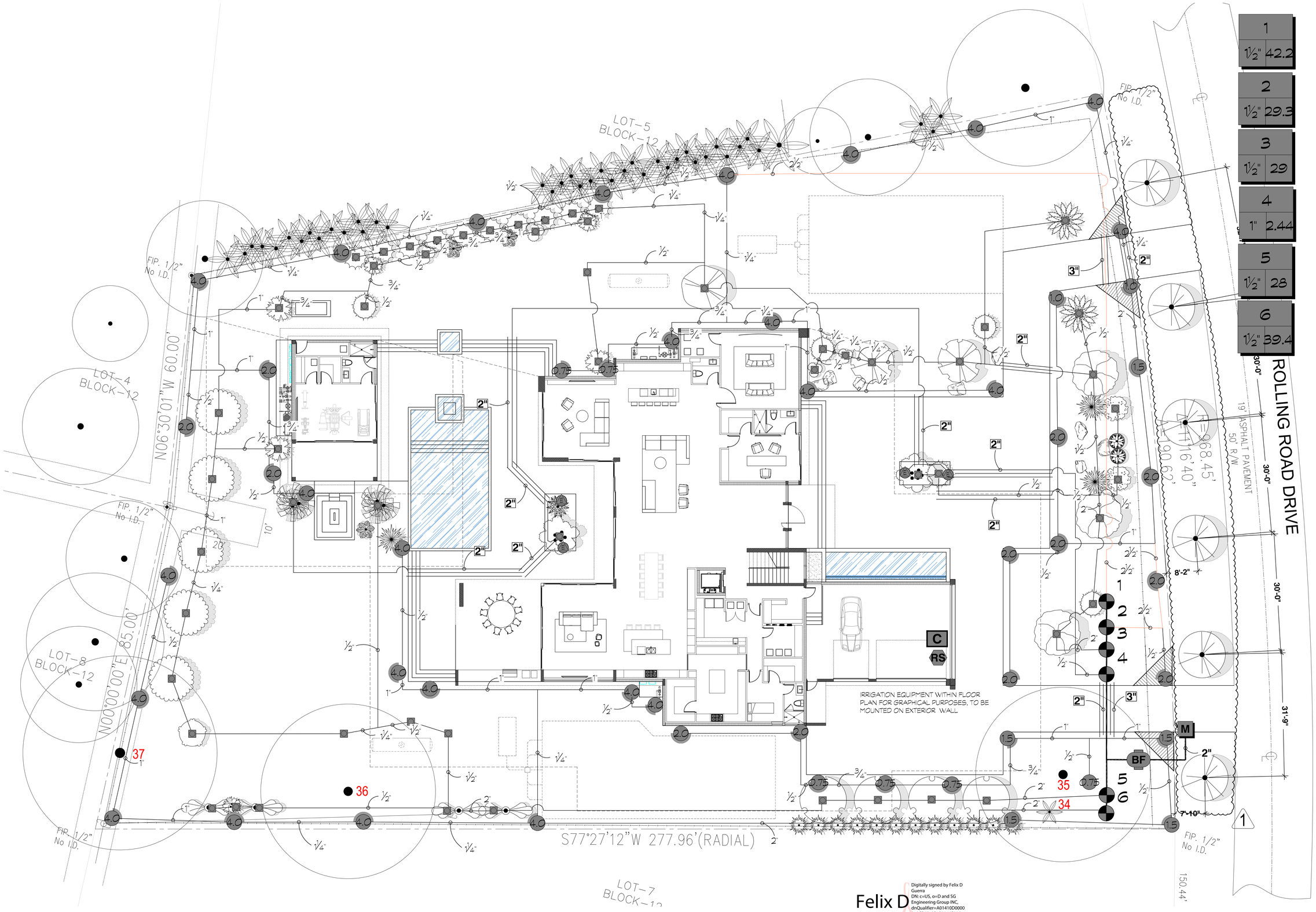
ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-05-23



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Date: 2025.05.27 11:32:01 -04'00'
Adobe Acrobat version: 2025.001.20474

IRRIGATION PLAN

SCALE: 3/32"=1'-0"

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1	2025.04.24 CITY COMMENTS

JOB: 12700

SHEET: L-400

ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-05-23

Irrigation Notes

LAYOUT

LAYOUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE ALL NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.
FLAG ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES ETC. AS REQUIRED TO INSURE 100% COVERAGE AND 50% OVERLAP.
LOW ANGLE TRAJECTORY NOZZLES SHALL BE USED WHEN ALL SPRINKLERS AND ROTORS ARE LOCATED WITHIN 100' OF POOLS OR PUBLIC GATHERING AREAS.

PIPE

PIPE LOCATIONS SHOWN ON PLAN ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING-OUT MAINS AND LATERALS, LOCATE PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHEREVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS.
PIPING UNDER HARDSCAPES SUCH AS ROADS, WALKS, AND PATIOS ARE TO BE SLEEVED USING SCH. 40 PIPE.
ALL PIPES TO BE IN ACCORDANCE WITH APPENDIX F OF THE 2017 FLORIDA BUILDING CODE.
PIPES 4" AND UNDER TO BE SOLVENT WELD. LARGER PIPES TO BE GASKETED 'O' RING PIPES AND USE THRUST BLOCKS OR MEGA LUGS AND DUCTILE IRON FITTINGS AT TURNING LOCATIONS.
*SIZE ALL PIPE SO NOT TO EXCEED 5' PER SECOND
*INSTALL RAIN SENSOR AS PER LOCAL CODE
PIPES CONVEYING RECLAIM WATER SHALL HAVE A 3' HORIZONTAL DISTANCE SEPARATION FROM OTHER PIPING OR UTILITY SERVICES. AN 18" VERTICAL SEPARATION SHALL BE MAINTAINED WHEN APPLICABLE.
AIR RELEASE VALVES TO BE USED AT THE END OF ALL MAINLINE RUNS.

WIRES

LOW VOLTAGE WIRE TO BE INSTALLED ALONG MAINLINE INSTALLATION. USE 2" SCH. 40 PVC WITH SWEEP ELBOWS AT TURNING LOCATIONS WHEN SLEEVING IS REQUIRED. ALL SPLICES SHALL BE ENCLOSED WITHIN A VALVE/SPLICE BOX.
WIRE SIZED AND COLORED AS FOLLOWS:
#12 WHITE FOR COMMON
#12 SPARE BLACK COMMON (1 SPARE NEEDED PER 10 HOT WIRES)
#14 RED HOT WIRES
#14 SPARE YELLOW HOT WIRE (1 SPARES NEEDED PER 10 HOT WIRES, 3 SPARE MINIMUM)
WHEN WIRE RUNS EXCEEDS 3,500 LINEAR FEET, USE #10 FOR COMMON WIRES AND #12 FOR HOT/SPARE WIRES.
ALL IRRIGATION CONTROLLERS TO BE PROPERLY GROUNDED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS

FLUSHING

PRIOR TO PLACEMENT OF HEADS FLUSH ALL LINES UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS.

TRENCHING

TRENCH BOTTOM TO BE UNIFORM AND FREE OF DEBRIS. NATIVE EXCAVATED MATERIAL USED TO BACKFILL TRENCH SHALL BE FREE FROM ROCKS OR STONES LARGER THAN 1" IN DIAMETER.

MISC.

PRESSURE TEST MAINLINE AS PER FLORIDA BUILDING CODE. INSTALL IRRIGATION SYSTEM AS PER LATEST EDITION OF THE FLORIDA BUILDING CODE, APPENDIX F., AND ALL PERTINENT LOCAL CODES.
SPRAY HEADS INSTALLED IN SHRUB AREAS TO BE 12 INCH POP-UPS OR INSTALLED ON RISERS.

DESIGN

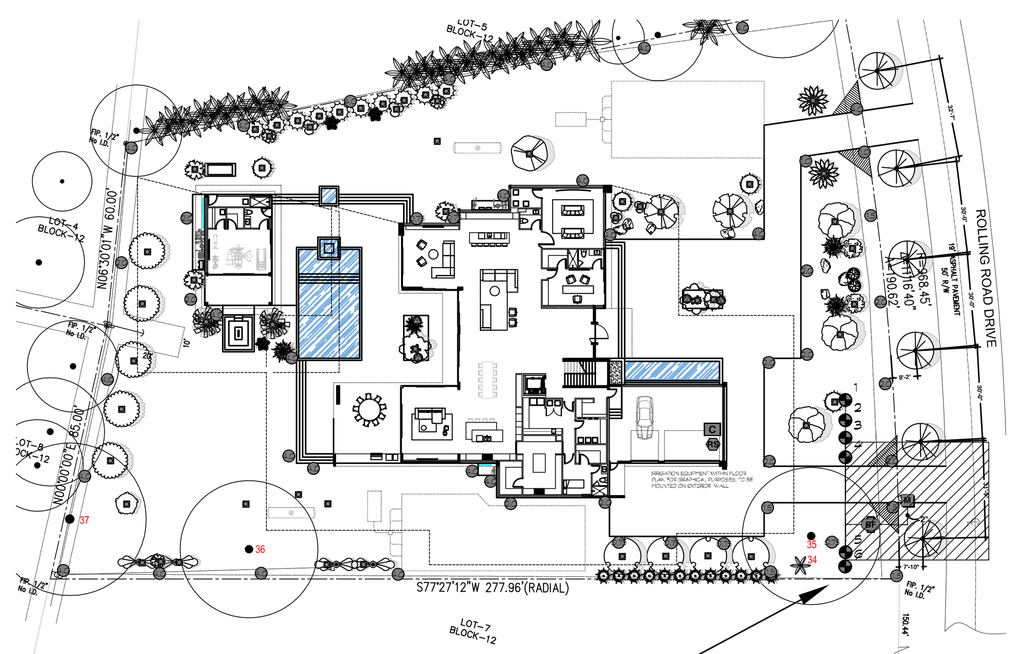
THIS DESIGN IS DIAGRAMMATIC. ALL IRRIGATION EQUIPMENT SUCH AS PIPES, VALVES, , ETC., SHOWN WITHIN PERVIOUS AREAS ARE FOR DESIGN CLARIFICATION ONLY. THE IRRIGATION CONTRACTOR SHALL INSTALL IRRIGATION EQUIPMENT IN PLANTING AREAS WHEREVER POSSIBLE.
THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, UTILITIES AND EXISTING IRRIGATION EQUIPMENT. THE IRRIGATION CONTRACTOR IS RESPONSIBLE SHALL REPAIR AND/OR REPLACE ANY DAMAGE CREATED BY THEIR WORK. THEY SHALL COORDINATE HIS WORK WITH OTHER CONTRACTOR OR MUNICIPAL AUTHORITIES FOR THE LOCATION AND INSTALLATION OF IRRIGATION EQUIPMENT UNDER ROADWAYS AND PAVING, SLEEVES THROUGH WALLS AND FLOORS, ETC.
INSTALL ALL IRRIGATION EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. SUBSTITUTIONS FOR IRRIGATION EQUIPMENT TO BE APPROVED BY THE IRRIGATION DESIGNER. EQUIPMENT CHANGES TO INCLUDE BUT NOT LIMITED TO PUMP, CONTROLLER, SPRAY HEADS, ROTORS, AND VALVES.
DO NOT INSTALL IRRIGATION EQUIPMENT AS SHOWN ON THE DRAWINGS WHEN FIELD CONDITIONS DIFFER. OBSTRUCTIONS OR DIFFERENCES TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR TO ASSUME FULL RESPONSIBILITY.

ELECTRIC

POWER TO BE PROVIDED TO THE CONTROLLER BY ELECTRICIAN.

IRRIGATION AUDIT PROCEDURE

1. INSPECT EVERY IRRIGATION ZONE AND A WRITTEN REPORT SHALL BE GENERATED DESCRIBING PROBLEMS. THE REPORT SHALL INCLUDE A LIST OF EACH ZONE INSPECTED. USE THE FOLLOWING LIST TO ASSIST IN THE REPORT.
   - TURN OFF EACH ZONE FROM THE CONTROLLER (WHEN POSSIBLE) TO VERIFY AUTOMATIC OPERATION. FOR BATTERY OPERATED ZONES, TURN ZONES ON AT BATTERY CONTROLLERS.
   - CHECK REMOTE CONTROL VALVES TO ENSURE PROPER OPERATION.
   - CHECK SETTING ON PRESSURE REGULATOR TO ENSURE PROPER SETTING.
   - CHECK FLOW CONTROL AND ADJUST AS NEEDED. ENSURE VALVE IS CLOSED WITHIN 10-15 SECONDS AFTER VALVE HAS BEEN TURNED OFF.
   - CHECK FOR LEAKS IN MAINLINE, LATERAL LINES, VALVES AND HEADS.
   - CHECK SPRAY HEADS AND ROTORS TO ENSURE PROPER OPERATION. (e.g. LEAKS, POP-UP HEIGHT, PROPER PATTERN, AND PROPER ALIGNMENT.)
2. CHECK PUMP STATION FOR PROPER OPERATION, WATER VOLUME, FLOW RATE, PRESSURE AND PUMP CAPABILITIES.
3. INSPECT ALL FILTERS.
4. CHECK THE CONTROLLER FOR PROPER GROUNDING.
5. CHECK RAIN SHUT-OFF DEVICE FOR PROPER OPERATION.
6. INSPECT ALL VALVE BOXES AND COVERS TO ENSURE GOOD CONDITION.
7. CONDUCT ANY ADDITIONAL INSPECTIONS IF NECESSARY.



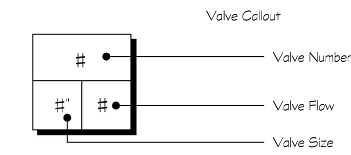
WATER METER LOCATION

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
EST LCS RCS CST SST	Rain Bird 1806 15 Strip Series Shrub Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	4	30
1401 1402 1404	Rain Bird 1804-1400 Flood Flood Bubbler 4.0in. popup, install w/ PA-80 adapter.	57	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
0.75	Rain Bird 3500-S-PC-SAM 0.75 Shrub Rotor, Fixed Riser, Adjustable and Full Circle. With Seal-A-Matic Check Valve.	6	35
1.0	Rain Bird 3500-S-PC-SAM 1.0 Shrub Rotor, Fixed Riser, Adjustable and Full Circle. With Seal-A-Matic Check Valve.	2	35
1.5	Rain Bird 3500-S-PC-SAM 1.5 Shrub Rotor, Fixed Riser, Adjustable and Full Circle. With Seal-A-Matic Check Valve.	5	35
2.0	Rain Bird 3500-S-PC-SAM 2.0 Shrub Rotor, Fixed Riser, Adjustable and Full Circle. With Seal-A-Matic Check Valve.	12	35
4.0	Rain Bird 3500-S-PC-SAM 4.0 Shrub Rotor, Fixed Riser, Adjustable and Full Circle. With Seal-A-Matic Check Valve.	25	35

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PGA Angle 1-1/2" 1in., 1-1/2in., 2in. Electric Remote Control Valve, Angle.	5
	Rain Bird PGA Angle 1" 1in., 1-1/2in., 2in. Electric Remote Control Valve, Angle.	1
BF	Zurn 950XL 1-1/2" Double Check Valve Assembly	1
C	Rain Bird ESP4ME3 with (1) ESP-SM3 7 Station, Hybrid Modular Outdoor Controller. For Residential or Light Commercial Use. LNK WiFi Module and Flow Sensor Ready.	1
RS	Rain Bird RSD-BEx Rain Sensor, with metal latching bracket, extension wire.	1
M	Water Meter 1-1/2" WATER METER TO BE VERIFIED ON SITE	1
	Irrigation Lateral Line: PVC Schedule 40 1/2"	1,341 lf
	Irrigation Lateral Line: PVC Schedule 40 3/4"	156.7 lf
	Irrigation Lateral Line: PVC Schedule 40 1"	417.5 lf
	Irrigation Lateral Line: PVC Schedule 40 1 1/4"	489.8 lf
	Irrigation Lateral Line: PVC Schedule 40 1 1/2"	192.4 lf
	Irrigation Lateral Line: PVC Schedule 40 2"	446.2 lf
	Irrigation Lateral Line: PVC Schedule 40 2 1/2"	243.7 lf
	Irrigation Mainline: PVC Schedule 40 2"	82.9 lf
	Pipe Sleeve: PVC Class 200 SDR 21 2"	202.6 lf
	Pipe Sleeve: PVC Class 200 SDR 21 3"	27.4 lf



IRRIGATION NOTES:
1. MAINLINE AND VALES DRAWN OUTSIDE PROPERTY LINE FOR GRAPHICAL PURPOSES. MAINLINE AND VALVES TO BE INSTALLED WITH LANDSCAPING
2. EQUIPMENT DRAWN WITHIN FLOOR PLAN FOR GRAPHICAL PURPOSES.
3. IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE
4. IRRIGATION PLAN IS DIAGRAMMATIC; INSTALL VALVES AND IRRIGATION LINES WHENEVER POSSIBLE.
5. IRRIGATION DESIGN TO BE TIED INTO EXISTING IRRIGATION SYSTEM AND USE EQUIPMENT ON SITE.
6. IRRIGATION DESIGN IS BASED ON A MAXIMUM DEMAND OF GPM WITH A MINIMUM OPERATING PRESSURE OF PSI. LANDSCAPE CONTRACTOR SHALL TEST AND VERIFY PRESSURE AND FLOW PRIOR TO STARTING JOB AND NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF WATER AND PRESSURE FLOWS DO NOT MEET THESE MINIMUM REQUIREMENTS.

Felix D Guerra
Digitally signed by Felix D Guerra
DN: c=US, o=D and SG Engineering Group INC, dnQualifier=A01410D0000018CB6543B170016F805, cn=Felix D Guerra
Date: 2025.05.27 11:32:24 -04'00'
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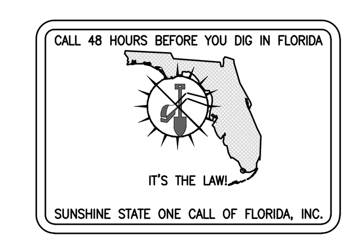
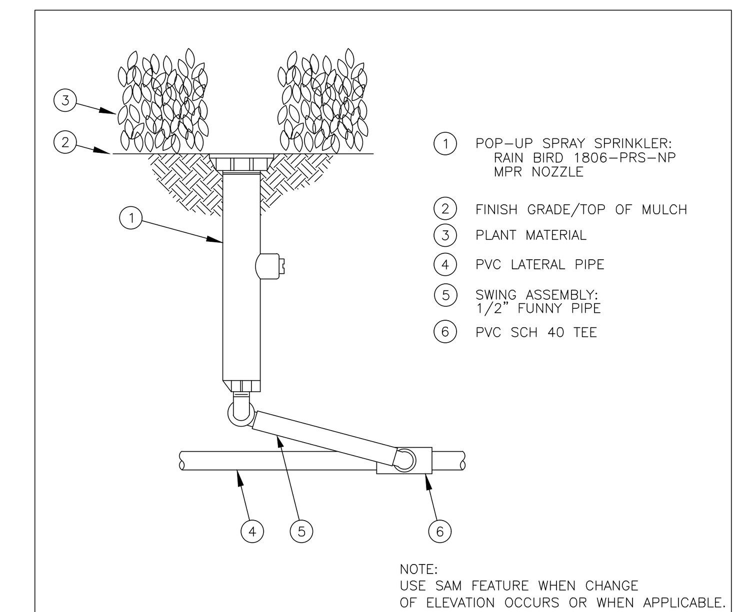
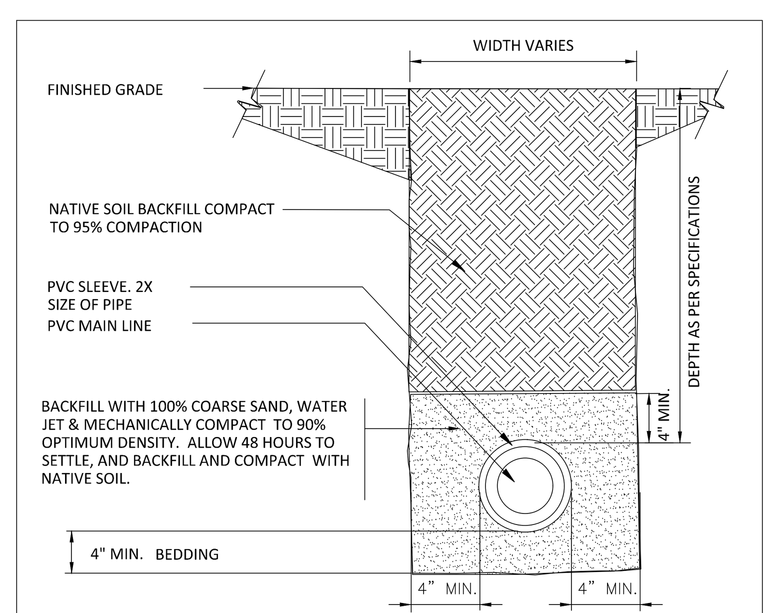




RAIN BIRD 1800 SERIES SPRINKLER



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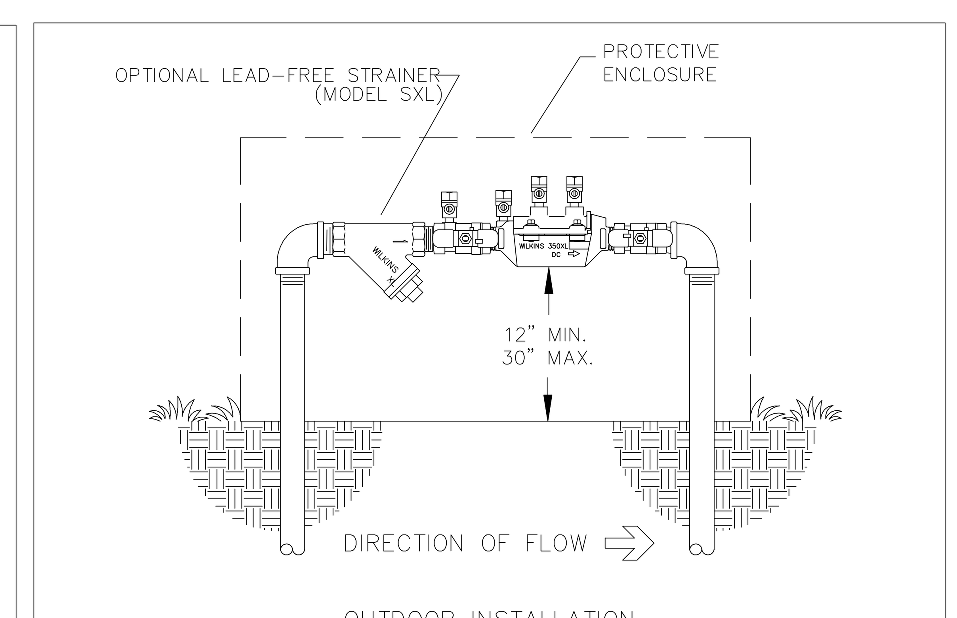
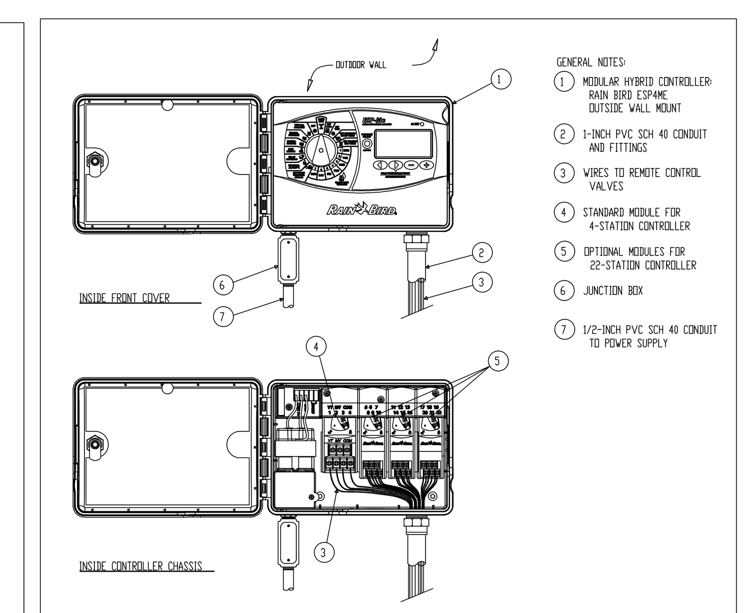
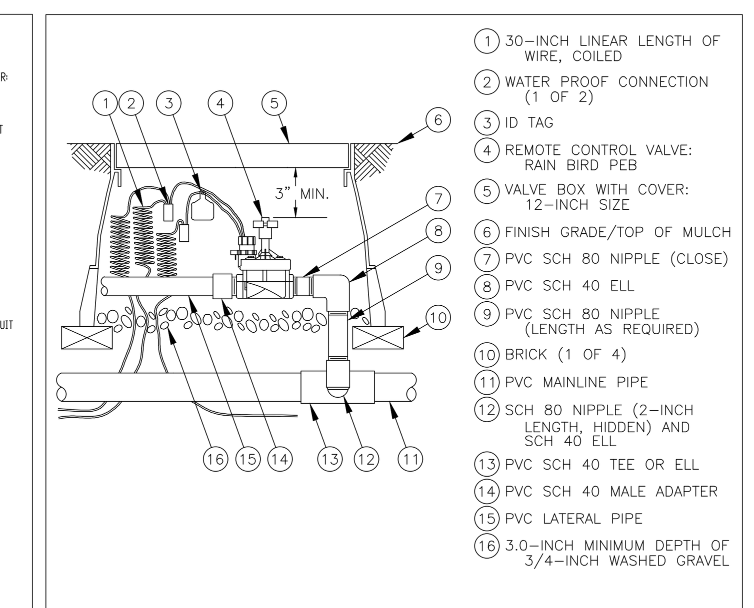


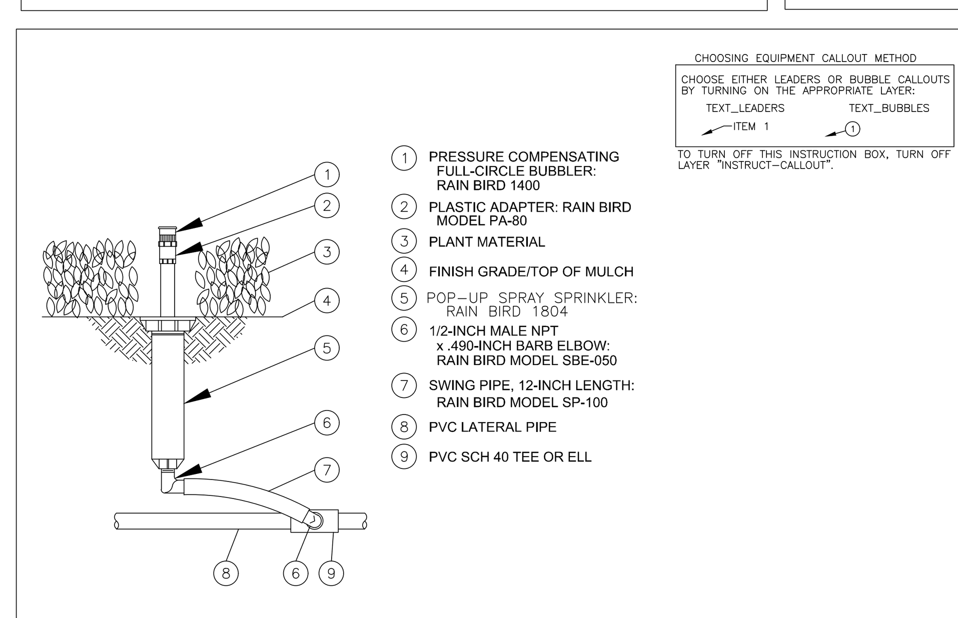
ZURN WILKINS RPZ MODEL 950 XL DOUBLE CHECK VALVE



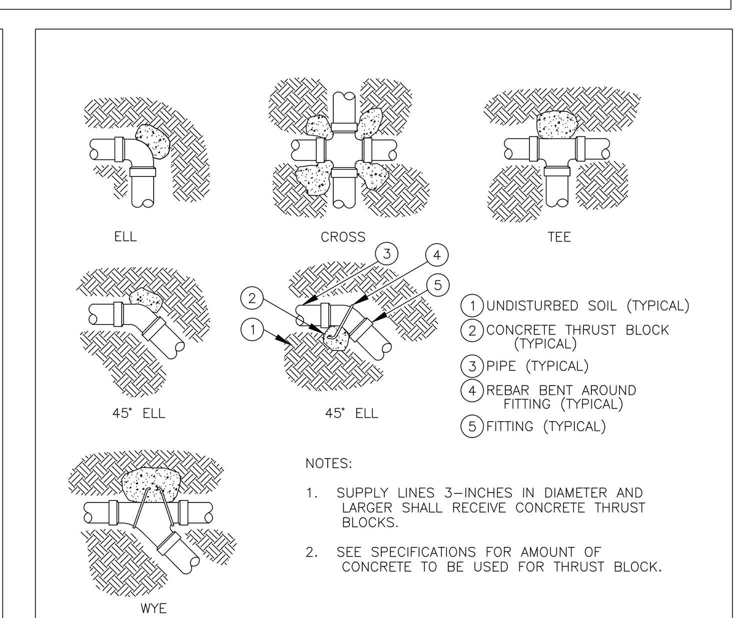
RAIN BIRD ESP-ME CONTROLLER



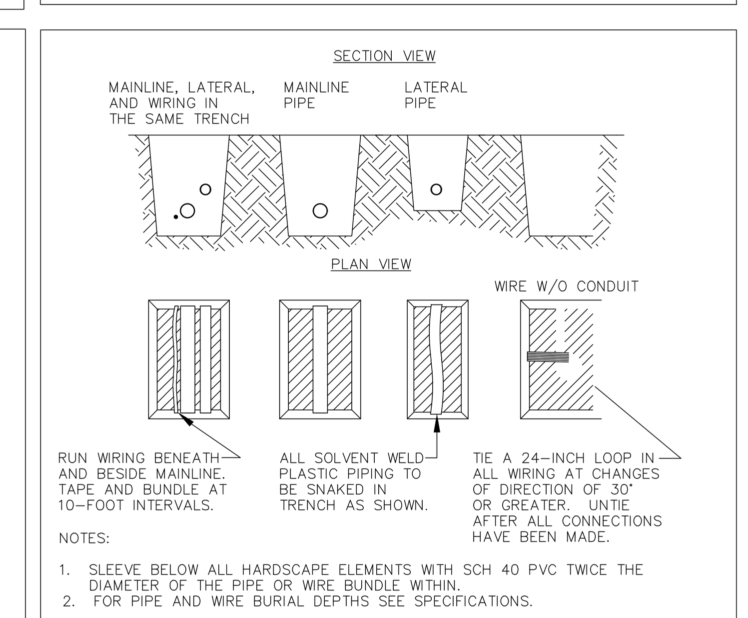
RAIN BIRD PGA VALVE



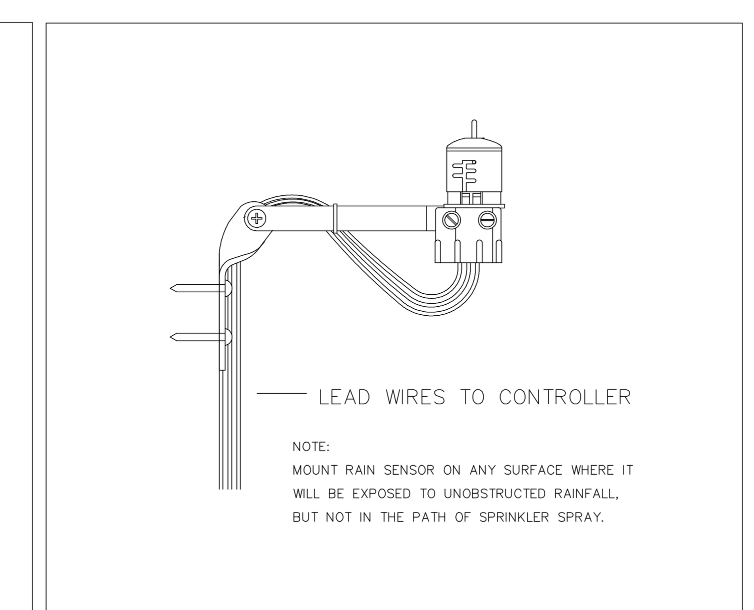
RAIN BIRD 1400 ON 1804 POP-UP



THRUST BLOCK DETAIL



TRENCH DETAIL



RAIN BIRD RAIN SENSOR

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JD ENGINEERING & CONSTRUCTION, CORP.
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PINECREST, FL 33156

SHEET TITLE:
IRRIGATION DETAILS

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SHEET:
L-401

ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-05-23