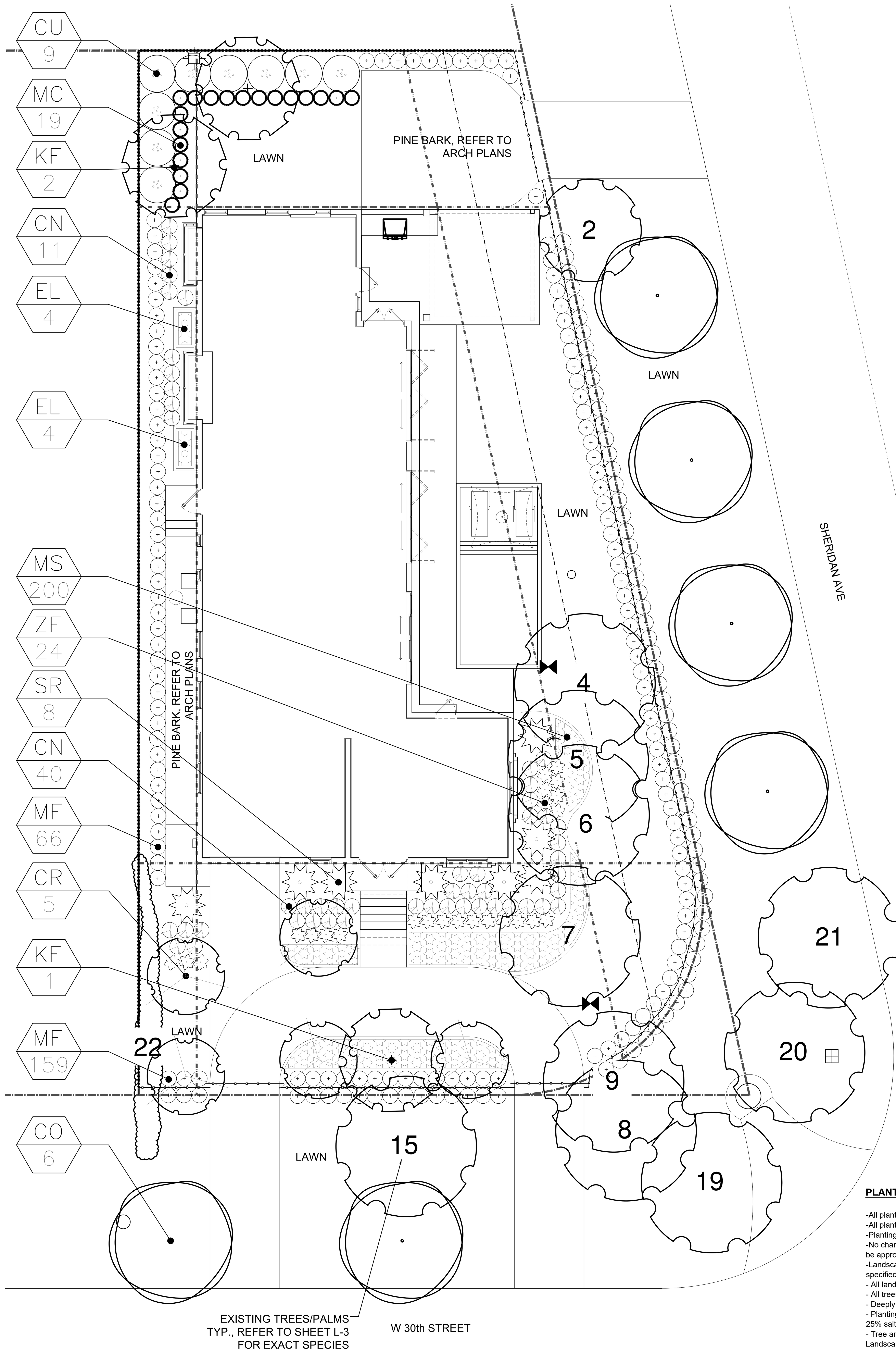


LANDSCAPE PLAN

Scale: 5 10 15 30 NORTH

CITY OF MIAMI BEACH
LANDSCAPE LEGEND

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS

Zoning District RS-4 Lot Area 8,538 SF Acres .19

	REQUIRED/ ALLOWED	PROVIDED
OPEN SPACE		
A. Square feet of required Open Space as indicated on site plan: Lot Area = 8,538 s.f.x 50 % = 4,269 s.f.	4,269	4,285
B. Square feet of parking lot open space required as indicated on site plan: Number of parking spaces ______ x 10 s.f. parking space =	n/a	n/a
C. Total square feet of landscaped open space required: A+B=	4,269	4,285
LAWN AREA CALCULATION		
A. Square feet of landscaped open space required	4,269	4,285
B. Maximum lawn area (sod) permitted= 50 % x 4,269 s.f.	2,135	1,650
TREES		
A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements= 5 trees x ______ net lot acres - number of existing trees=	8	8
B. % Natives required: Number of trees provided x 30% =	3	8
C. % Low maintenance / drought and salt tolerant required: Number of trees provided x 50%=	4	8
D. Street Trees (maximum average spacing of 20' o.c.) 107' linear feet along street divided by 20'=	6	6
E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): ______ linear feet along street divided by 20'=	n/a	n/a
SHRUBS		
A. Number of shrubs required: Sum of lot and street trees required x 12=	168	327
B. % Native shrubs required: Number of shrubs provided x 50%=	84	327
LARGE SHRUBS OR SMALL TREES		
A. Number of large shrubs or small trees required: Number of required shrubs x 10%=	17	17
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=	9	9

LANDSCAPE LIST

SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION
TREES			
CO	6	*Chrysophyllum oliviforme SATINLEAF	12' HT. X 6' SPR. 3" CAL., 4' C.T. F. G.
KF	3	*Krugiodendron ferreum BLACK IRONWOOD	12' HT. X 6' SPR. 2" CAL. F. G.
CR	5	*Clusia rosea PITCH APPLE TREE	12' HT. X 6' SPR., 2" CAL. Multi-Trunk, F. G.
SHRUBS AND GROUNDCOVERS			
SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION
MF	225	*Myrcianthes fragrans SIMPSON'S STOPPER	36" HT. X 24" SPR. 3 GAL.
CN	51	*Clusia rosea 'nana' DWARF PITCH APPLE	18" HT. X 18" SPR. 3 GAL.
CU	9	*Coccoloba uvifera SEAGRAPE	6' HT. X 48" SPR. 15 GAL.
MS	200	*Mimosa strigillosa SUNSHINE MIMOSA	12" HT. X 12" SPR. / 12" O.C. 1 GAL.
MC	19	*Muhlenbergia capillaris MUHLY GRASS	24" HT. X 24" SPR. 3 GAL.
SR	8	Strelitzia reginae ORANGE BIRD OF PARADISE	6' HT. X 48" SPR. 15 GAL.
EL	8	*Ernodea littoralis GOLDEN BEACH CREEPER	18" HT. X 18" SPR. / 24" O.C. 3 GAL.
ZF	24	Zamia floridana COONTIE	18" HT. X 18" SPR. 3 GAL.
LAWN	As Required	Stenotaphrum secundatum 'Floratam' ST. AUGUSTINE GRASS	SOLID EVEN SOD

* DENOTES NATIVE SPECIES

PLANTING NOTES:

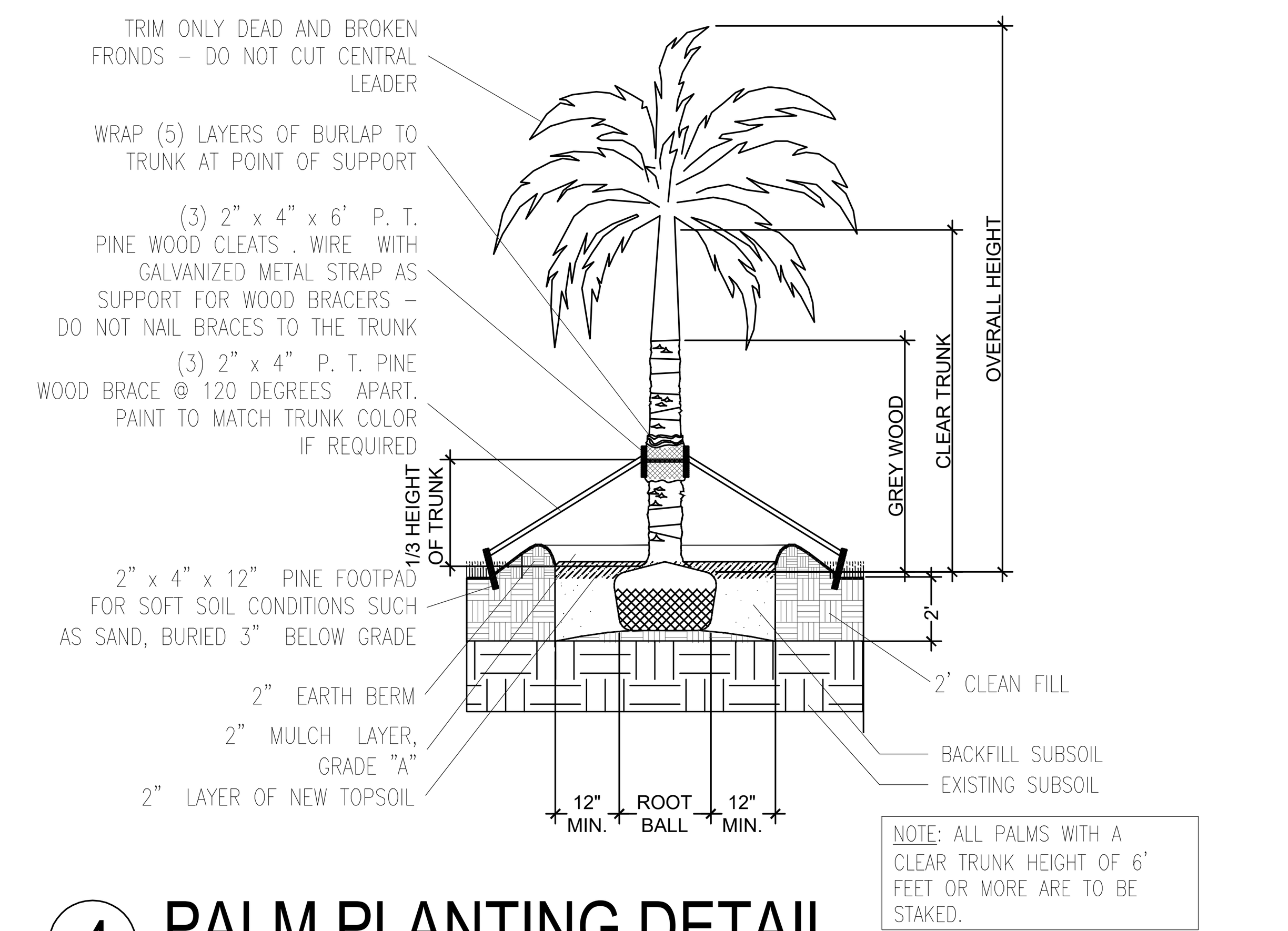
-All plant material is to be Florida Number 1 or better pursuant to the Florida Department of Agriculture's Grades and Standards for Nursery Plants.
-All plants are to be top dressed with a minimum 3" layer of Melaleuca mulch, Eucalyptus mulch or equal.
-Planting plans shall take precedence over plant list in case of discrepancies.
-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 project engineer.
-Landscape Contractor is responsible for providing their own square footage takeoffs and field verification for 100% sod coverage for all areas specified.
- All landscape areas are to be provided with automatic sprinkler system which provide 100% coverage, and 50% overlap.
- All trees in lawn areas are to receive a 24" diameter mulched saucer at the base of the trunk.
- Deeply set root balls are not acceptable.
- 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.
- 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.

GENERAL NOTES:

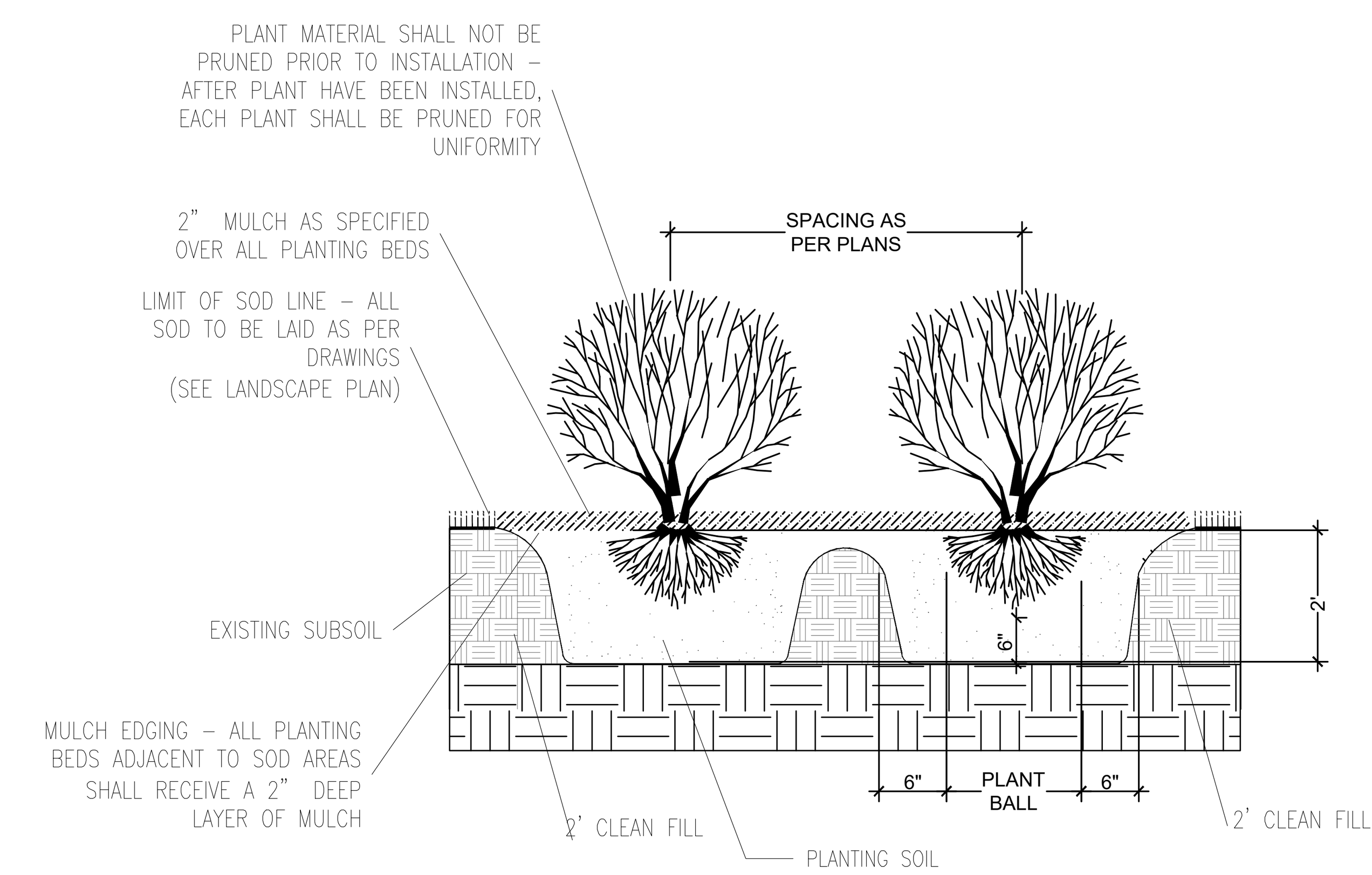
-The Landscape Contractor is to locate and verify all underground and overhead utilities prior to beginning work. Contact proper utility companies and / or General Contractor prior to digging for field verification. The Owner and the Landscape Architect shall not be responsible for any damages to utility or irrigation lines (see Roadway Plans for more utility notes).
-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.
-All unattended and unplanted tree pits are to be properly barricaded and flagged during installation.
-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.

SOD NOTES:

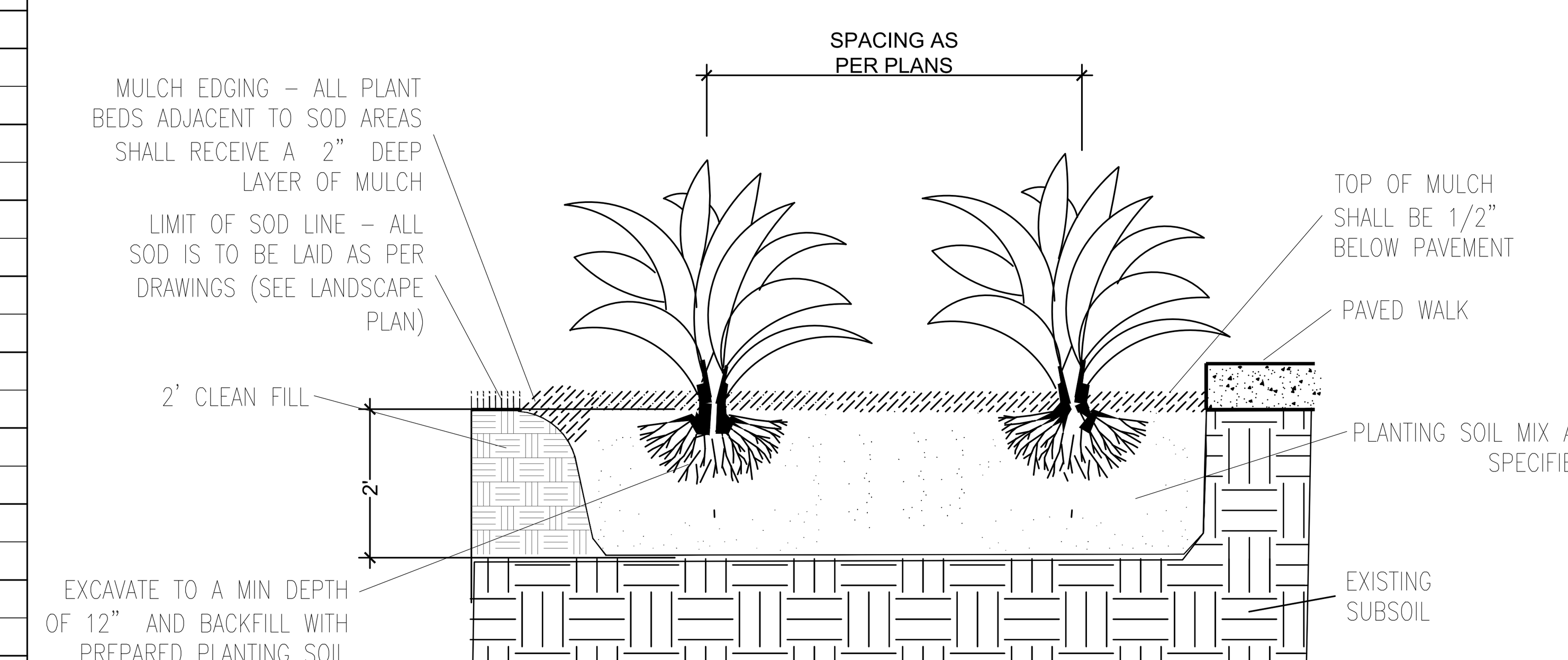
-Sod is to be grade "A" weed free.
-All areas marked "LAWN" shall be solid sodded with St. Augustine 'Floratam' solid sod. See limit on plan. All areas marked 'Bahia Grass' shall be solid sodded with Paspalum.
-Provide a 2" deep blanket of planting soil as described in planting notes this sheet. Prior 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.
-Place sod on moistened soil, with edges tightly butted, in staggered rows at right angles to slopes.
-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.
-Sod Shall be watered immediatley after installation to uniformily wet the soil to at least 2" below the bottom of the sod strips.
-Excavate and remove excess soil so top of sod is flush with top of curb or adjacent pavement or adjacent existing sod.



4 PALM PLANTING DETAIL
SCALE: N.T.S.

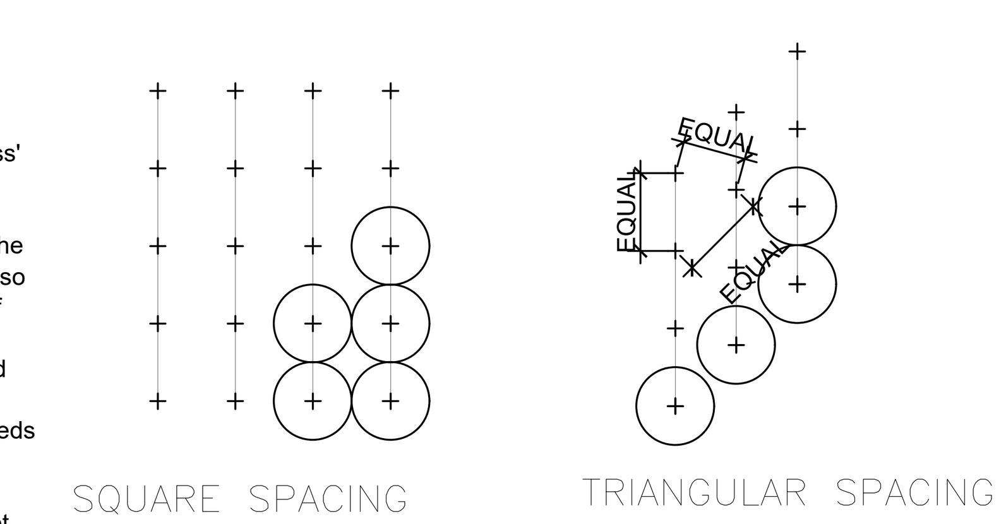


3 SHRUB PLANTING DETAIL
SCALE: N.T.S.



2 GROUNDCOVER PLANTING DETAIL
SCALE: N.T.S.

NOTE: IN MOST CASES, TRIANGULAR SPACING IS PREFERRED. USE SQUARE SPACING ONLY IN SMALL RECTILINEAR AREAS.



1 PLANT SPACING DETAIL
SCALE: N.T.S.

PURPLE MARTIN STUDIO
LANDSCAPE ARCHITECTURE
3001 SW 27th Ave UNIT 308
MIAMI, FL 33133
352.494.6733

PROJECT:
AYAD RESIDENCE
401 WEST 30TH ST.
MIAMI BEACH, FLORIDA

REVISIONS:
1)

SEAL:
Theresa Wymer
Digitally signed by Theresa Wymer
Date: 2022.12.08 16:06:47 -05'00'

DRAWING:	LANDSCAPE PLAN
SCALE:	DATE: 11.18.22
SHEET #	L-1
CAD ID:	

PLANT IMAGES

SATINLEAF TREE

BLACK IRONWOOD TREE

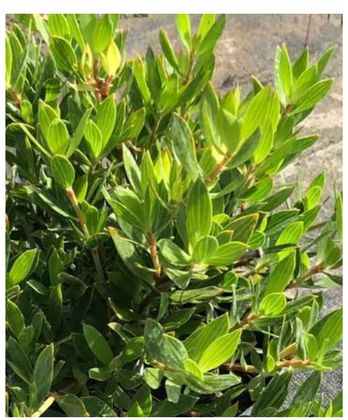
PITCH APPLE TREE

SIMPSON'S STOPPER

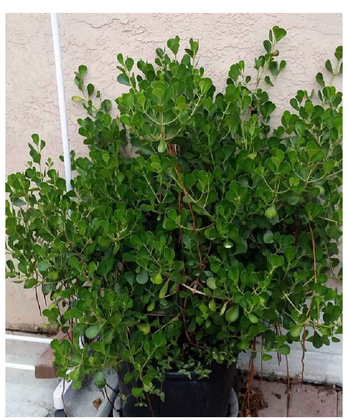
SEAGRAPE

MUHLY GRASS

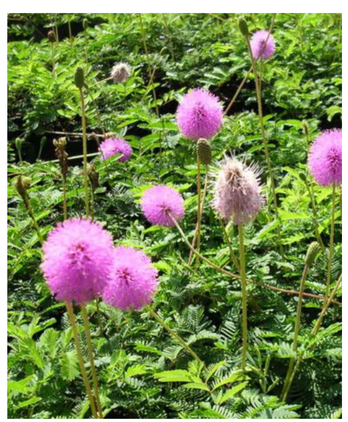
ORANGE BIRD OF PARADISE



GOLDEN BEACH CREEPER



DWARF PITCH APPLE



SUNSHINE MIMOSA

COONTIE

PURPLE MARTIN STUDIO
LANDSCAPE ARCHITECTURE

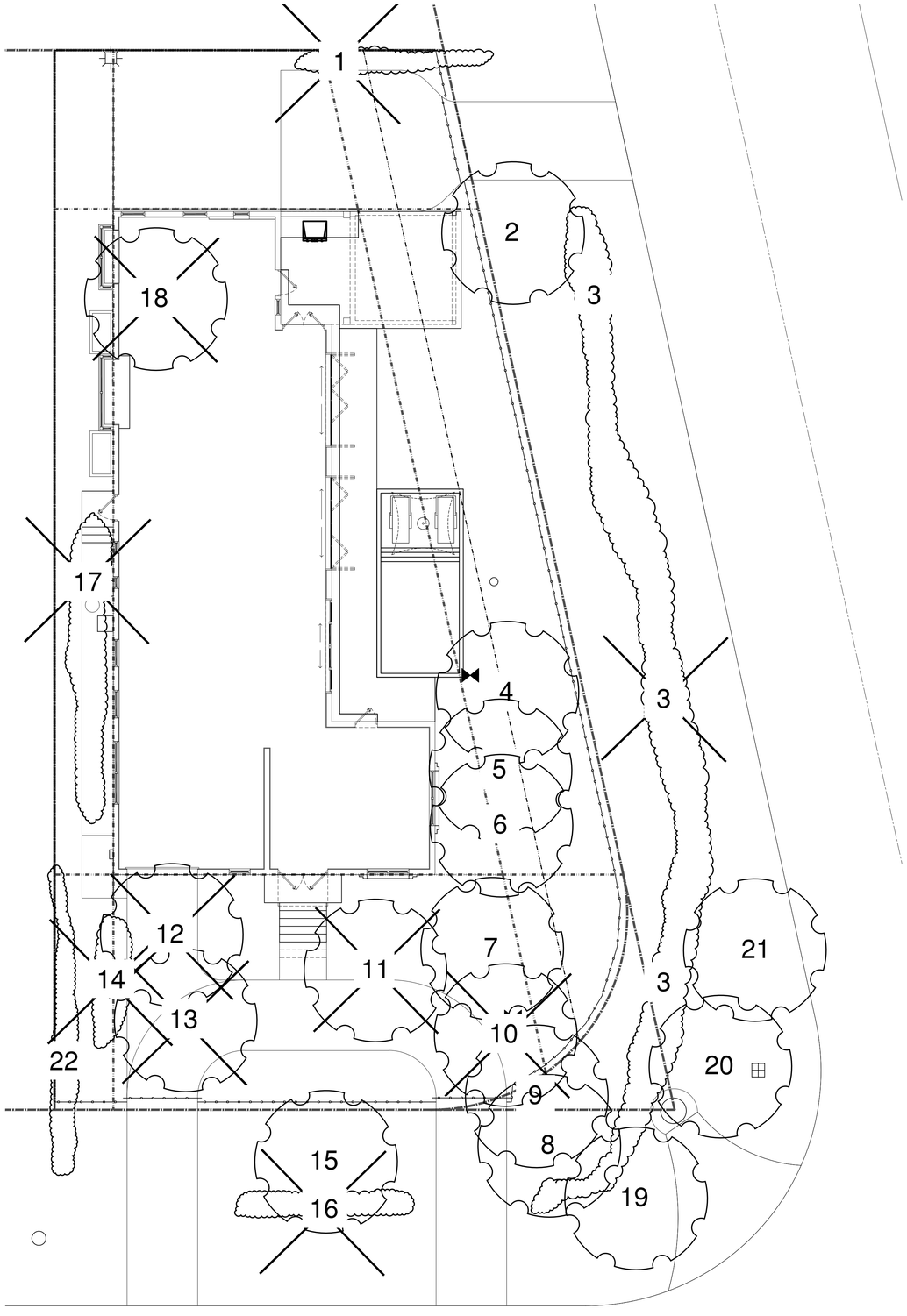
3001 SW 27th Ave UNIT 308
MIAMI, FL 33133
352.494.6733

PROJECT:
AYAD RESIDENCE
401 WEST 30TH ST.
MIAMI BEACH, FLORIDA

REVISIONS:
1)

SEAL:
Theresa Wymer
Digitally signed by Theresa Wymer
Date: 2022.12.08 16:07:04 05'00'
MEMBER A.S.L.A. FL LICENSE #LA0001407

DRAWING: PLANT IMAGES
SCALE:
DATE: 11.18.22
SHEET #
L-2
CAD ID:



TREE DISPOSITION PLAN

Scale: 5 10 15 30 NORTH

TREE DISPOSITION LEGEND		
SYMBOL	QUAN.	
	9	TREE/PALM TO REMOVE
	15	TREE/PALM TO REMAIN
	0	TREE/PALM TO RELOCATE

TREE DISPOSITION SUMMARY					
	REMAIN	RELOCATE	REMOVE	TOTAL TREES	TOTAL PALMS
TREES	0	0	0	0	
PALMS	11	0	6		17

*PER CH. 46 SEC.46-58(1)(g), THE REMOVAL OF PLANTS WHICH ARE DEFINED AS A HEDGE DO NOT REQUIRE A TREE WORK PERMIT AND ARE EXEMPT FROM MITIGATION REQUIREMENTS. TREE #17 IS A FICUS HEDGE.
THE PALMS REMOVED WILL REQUIRE MITIGATION

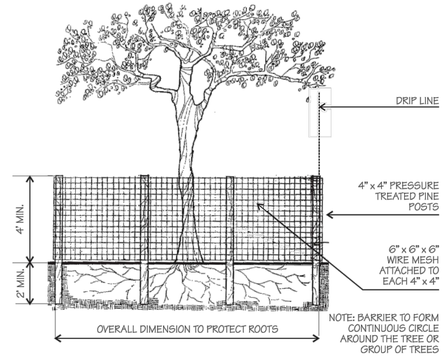
MITIGATION:
-REMOVAL OF 6 PALMS AND 3 FICUS HEDGE
-PER CH.46 SEC.46-61(1)(c), THE REMOVAL OF A PALM SHALL BE REPLACED WITH ONE CANOPY TREE AT 12 FEET OVERALL HEIGHT WITH A TWO-INCH DBH
-PER LANDSCAPE PLAN ON SHEET L-1, 14 TREES ARE BEING PROPOSED AT 12' HT. WITH 2" DBH

MITIGATION REQUIREMENTS ARE BEING MET.

Tree Disposition Table

Tree #	Scientific Name	Common Name	DBH (in)	Height (ft)	Canopy (ft)	Disposition
1	*Ficus benjamina*	Ficus Hedge	8	25	4	Remove
2	*Dypsis lutescens*	Areca Palm Cluster	24	30	8	Remain
3	*Ficus benjamina*	Ficus Hedge	6	15	4	Remove
4	*Ptychosperma elegans*	Solitaire Palm	24	20	15	Remain
5	*Ptychosperma elegans*	Solitaire Palm	24	20	15	Remain
6	*Ptychosperma elegans*	Solitaire Palm	24	15	12	Remain
7	*Ptychosperma elegans*	Solitaire Palm	36	25	12	Remain
8	*Veitchia montgomeryana*	Montgomery Palm	24	25	12	Remain
9	*Veitchia montgomeryana*	Montgomery Palm	24	25	12	Remain
10	*Veitchia montgomeryana*	Montgomery Palm	24	27	12	Remove
11	*Roystonea regia*	Royal Palm	12	25	12	Remove
12	*Ptychosperma elegans*	Solitaire Palm	36	30	10	Remove
13	*Roystonea regia*	Royal Palm	8	30	10	Remove
14	*Phoenix roebelenii*	Dwarf Date Palm	8	30	10	Remove
15	*Cocos nucifera*	Coconut Palm	24	25	20	Remain
16	*Ficus benjamina*	Ficus Hedge	11	15	5	Remove
17	*Ficus benjamina*	Ficus Hedge	12	15	5	Remove
18	*Dypsis lutescens*	Areca Palm	36	22	20	Remove
19	*Roystonea regia*	Royal Palm	12	25	16	Remain
20	*Roystonea regia*	Royal Palm	24	30	16	Remain
21	*Roystonea regia*	Royal Palm	15	25	12	Remain
22	*Ficus benjamina*	Ficus Hedge	6	15	5	Remain

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.



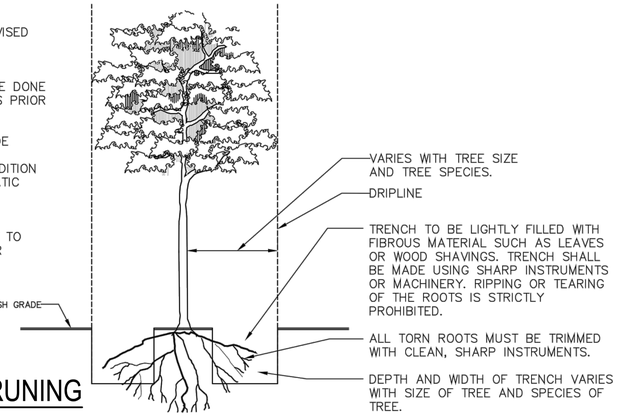
1 TREE PROTECTION
SCALE: NTS

WORK MUST BE SUPERVISED BY AN ISA CERTIFIED ARBORIST.

ROOT PRUNING MUST BE DONE A MINIMUM OF 8 WEEKS PRIOR TO RELOCATION.

WATERING MUST PROVIDE SUFFICIENT WATER TO MAINTAIN A MOIST CONDITION IN THE ROOTS. AUTOMATIC IRRIGATION DRIP IS RECOMMENDED.

TAKE EXTRA CARE NOT TO DAMAGE THE TRUNK OR BRANCHES.



2 ROOT PRUNING
SCALE: NTS

PURPLE MARTIN STUDIO
LANDSCAPE ARCHITECTURE
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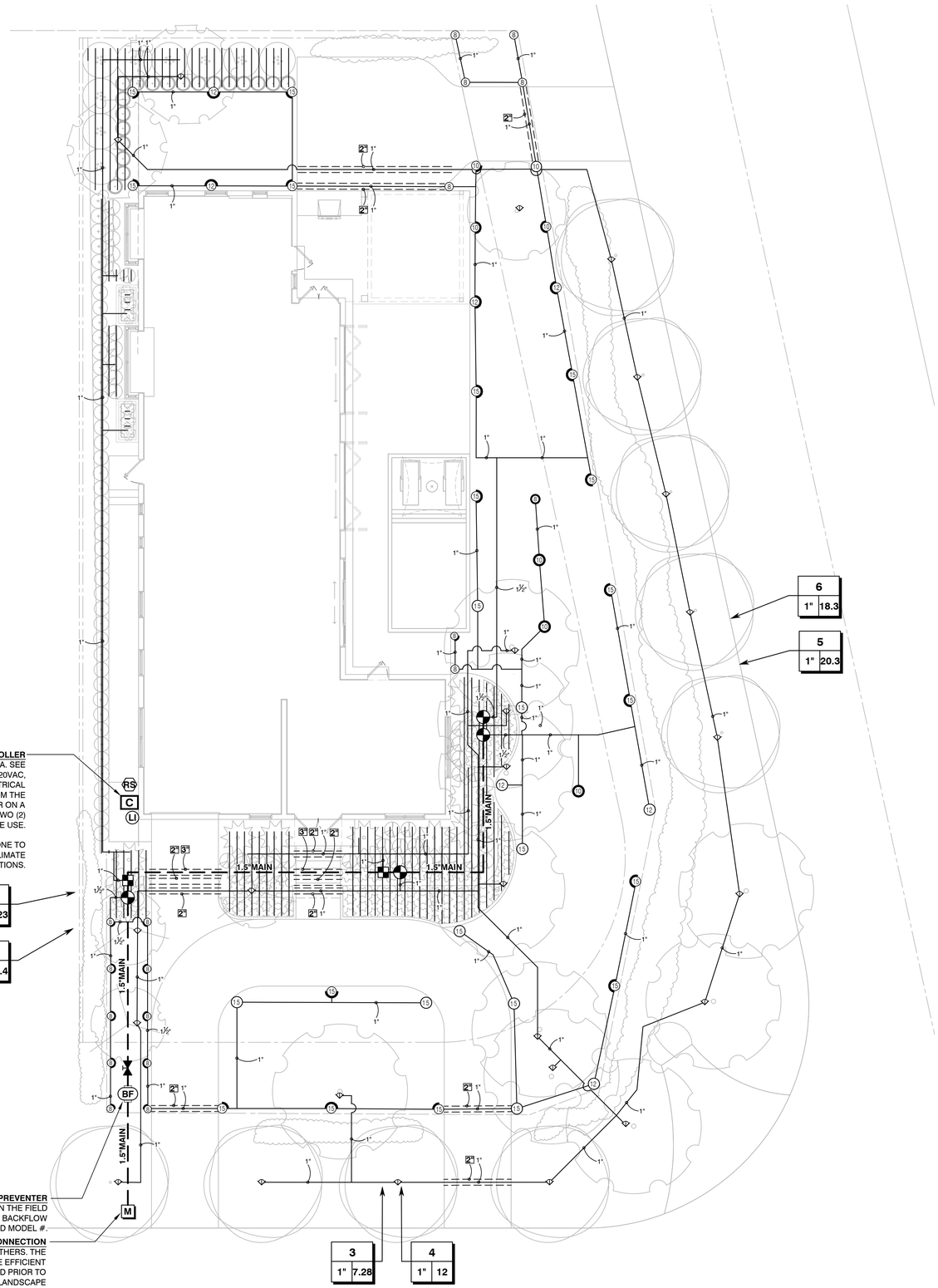
352.494.6733

PROJECT:
AYAD RESIDENCE
401 WEST 30TH ST.
MIAMI BEACH, FLORIDA

REVISIONS:
1)

SEAL:
Theresa Wymer
Digitally signed by Theresa Wymer
Date: 2022.12.08 16:07:16 -05'00'
MEMBER FLORIDA: FL LICENSE #LA0667363

DRAWING:	TREE DISPOSITION PLAN
SCALE:	DATE:11.18.22
SHEET #	L-3
CAD ID:	



IRRIGATION CONTROLLER
TO BE MOUNTED ON THE EXTERIOR WALL OF THE BUILDING IN THIS AREA. SEE DETAIL. VERIFY MOUNT LOCATIONS IN THE FIELD PRIOR TO INSTALLATION. 120VAC, 1.0 AMP, ELECTRIC POWER SUPPLY PROVIDED BY THE BUILDING ELECTRICAL CONTRACTOR. ROUTE A 1" ELECTRICAL CONDUIT WITH CONTROL WIRES FROM THE CONTROLLER TO THE MAINLINE TRENCH. MOUNT THE RAIN SENSOR ON A STATIONARY STRUCTURE ABOVE ALL OVERHEAD OBSTRUCTIONS. PROVIDE TWO (2) ADDITIONAL CONTROL WIRES IN WIRE BUNDLE FOR FUTURE USE.

THE IRRIGATION CONTRACTOR IS TO SET THE RUN TIMES FOR EACH ZONE TO MATCH THE PLANT WATER REQUIREMENTS, SITE CONDITIONS AND MICRO-CLIMATE FACTORS. SEE THE LANDSCAPE PLANS FOR PLANT SPECIFICATIONS.

BACKFLOW PREVENTER
IRRIGATION INSTALLER TO FOLLOW LOCAL CODES. VERIFY LOCATION IN THE FIELD BEFORE INSTALLATION. SEE THE PRODUCT LEGEND FOR THE BACKFLOW MANUFACTURER AND MODEL #.

IRRIGATION WATER POINT OF CONNECTION
INSTALL A 1" IRRIGATION WATER METER IN THIS AREA PROVIDED BY OTHERS. THE WATER METER IS TO SUPPLY A MINIMUM OF 25GPM AT 50PSI FOR THE EFFICIENT OPERATION OF THIS SYSTEM. VERIFY LOCATION IN THE FIELD PRIOR TO INSTALLATION. THE IRRIGATION CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION IF THE REQUIRED PRESSURE IS NOT AVAILABLE ON THE DOMESTIC WATER LINE.

IRRIGATION PLAN

SCALE: 1/8"=1'-0" NORTH

PURPLE MARTIN STUDIO
LANDSCAPE ARCHITECTURE

3001 SW 27th Ave UNIT 308
MIAMI, FL 33133
352.494.6733

PROJECT:
AYAD RESIDENCE
401 WEST 30TH ST.
MIAMI BEACH, FLORIDA

REVISIONS:
1)

SEAL:
Theresa Wymer
Digitally signed by Theresa Wymer
Date: 2022.12.08 15:07:32 -05'00'
MEMBER ASLA FL LICENSE# 6666732

DRAWING: IRRIGATION PLAN	
SCALE: 1/8"=1'-0"	DATE:11.18.22
SHEET # L-4	
CAD ID:	

811 TWO DAYS BEFORE YOU DIG
CALL: TOLL FREE 1.800.422.4133
UNDERGROUND SERVICE ALERT

INSTALL ALL THE IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH INSTALLED UTILITIES, TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)

IRRIGATION NOTES

1. THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. SOME COMPONENTS MAY BE SHOWN OUTSIDE THE WORK AREA FOR CLARITY. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ALL DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED.

2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS, IRRIGATION SYSTEM SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL CURRENT LOCAL CODES, ORDINANCES, AND REGULATIONS.

3. ALL IRRIGATION MAINLINE AND LATERAL LINES ARE TO NOT EXCEED A VELOCITY OF 5FPS.

4. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY ASPECT OF THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS AND DRAWINGS, WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES EXIST THAT MIGHT NOT HAVE BEEN KNOWN DURING THE DESIGN OF THE IRRIGATION SYSTEM. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT APPROVED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.

5. REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREE ROOT BALLS WHEN INSTALLING IRRIGATION EQUIPMENT. CALL 811 AND REFER TO UTILITY PLANS PRIOR TO TRENCHING.

6. IRRIGATION CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, INCLUDING UTILITY LOCATIONS BEFORE INSTALLATION OF THE IRRIGATION SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH ALL OTHER CONSTRUCTION ON SITE, ESPECIALLY LANDSCAPE INSTALLATION. THE IRRIGATION SYSTEM SHALL BE RELOCATED AT NO ADDITIONAL COST FOR ANY CONFLICT WITH LANDSCAPE INSTALLATION OR ANY OTHER SITE CONSTRUCTION OR EXISTING CONDITIONS.

7. VERIFY THE REQUIRED MINIMUM STATIC WATER PRESSURE IS AVAILABLE AT THE PROJECT SITE PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. NOTIFY THE IRRIGATION DESIGN CONSULTANT AND LANDSCAPE ARCHITECT IN WRITING IF THE MINIMUM STATIC WATER PRESSURE OR WATER VOLUME IS NOT AVAILABLE. SEE PLAN SHEET FOR REQUIREMENTS.

8. WHERE EXISTING OR NEW TREES, LIGHT FIXTURES, SIGNS, ELECTRONIC CONTROLLERS AND/OR OTHER OBJECTS ARE AN OBSTRUCTION TO AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN PROPER COVERAGE OF AN IRRIGATION SPRINKLER'S PATTERN. THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN THE PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION.

9. 100% HEAD TO HEAD COVERAGE IS REQUIRED. ASSURE THAT ANY MODIFIED SPACING DOES NOT EXCEED THE SPACING SHOWN IN THE PLANS.

10. IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLERS TO AVOID OVER SPRAY ONTO IMPERVIOUS AREAS.

11. ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE NEW AND INSTALLED AS SHOWN ON THE PLANS. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS AND INSTRUCTIONS RECOMMENDED BY THE PRODUCT MANUFACTURER.

12. THE LOCATION OF THE IRRIGATION MAINLINE SHALL BE IDENTIFIED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.

13. CONTRACTOR IS TO SUBMIT PRODUCT SPECIFICATION SHEETS FOR ALL IRRIGATION EQUIPMENT TO BE USED FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

14. THE QUANTITIES SHOWN IN THE LEGEND SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.

15. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN DEBRIS-FREE MATERIALS.

16. IRRIGATION CONTRACTOR IS TO INSTALL CHRISTY ZONE TAGS WITH THE CORRESPONDING CONTROLLER ZONE NUMBER AT EACH CONTROL VALVE.

17. AS BUILT DOCUMENTS ARE TO BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT. THE MAINLINE, CONTROL VALVES, ISOLATION VALVES, GROUND RODS AND SPLICE BOXES SHALL BE LOCATED WITH A MEASUREMENT FROM TWO FIXED POINTS.

18. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF ON-SITE OPERATIONS.

19. A MAINLINE PRESSURE TEST IS TO BE CONDUCTED BEFORE BACKFILLING. ALL FINDINGS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT WITHIN TWENTY FOUR HOURS POST TEST.

20. ALL SLEEVES ARE TO BE TWO TIMES THE SIZE OF THE PIPE.

21. ROUTE AN ELECTRICAL CONDUIT FROM THE CONTROLLER TO THE MAINLINE TRENCH FOR THE CONTROL WIRES. RUN THE CONDUIT AND CONTROL WIRES PARALLEL TO THE MAINLINE.

22. THE IRRIGATION SYSTEM IS TO BE INSPECTED AND APPROVED BY THE PROJECT OWNER PRIOR TO RECEIVING CERTIFICATION.

23. ANY PRODUCT SUBSTITUTIONS MADE BY THE IRRIGATION CONTRACTOR ARE TO BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO INSTALLATION.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PRECIP
1	RAIN BIRD PGA GLOBE	1"	TURF SPRAY	20.4	1.39 in/h
2	RAIN BIRD XCZPGA-100-PRF	1"	AREA FOR DRIPLINE	6.23	1.37 in/h
3	RAIN BIRD XCZPGA-100-PRF	1"	AREA FOR DRIPLINE	7.28	1.44 in/h
4	RAIN BIRD PGA GLOBE	1"	BUBBLER	12	1.71 in/h
5	RAIN BIRD PGA GLOBE	1"	TURF SPRAY	20.33	1.41 in/h
6	RAIN BIRD PGA GLOBE	1"	TURF SPRAY	18.32	1.53 in/h

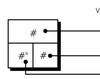
THE IRRIGATION CONTRACTOR IS TO SET THE RUN TIMES FOR EACH ZONE TO MATCH THE PLANT WATER REQUIREMENTS, SITE CONDITIONS AND MICRO-CLIMATE FACTORS. SEE THE LANDSCAPE PLANS FOR PLANT SPECIFICATIONS.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
3 6 9 12 / Q T H F	RAIN BIRD 1806-U-PRS U8 SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	12	30
3 6 9 12 / Q T H F	RAIN BIRD 1806-U-PRS U10 SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	6	30
3 6 9 12 15 / Q T H TQ F	RAIN BIRD 1806-U-PRS U12 SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	4	30
3 6 9 12 15 / Q T H TQ F	RAIN BIRD 1806-U-PRS U15 SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	16	30
8 08HE-VAN, 12 12HE-VAN / 10 10HE-VAN, 15 15HE-VAN	RAIN BIRD 1806-U-PRS HE-VAN SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	18	30
1401 1402 1404 1408	RAIN BIRD 1800-1400 FLOOD FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2IN. FIPT.	25	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZPGA-100-PRF MEDIUM FLOW, 3-15 GPM, WITH 1IN. PGA VALVE AND 1IN. PRESSURE REGULATING RBY FILTER AND 40PSI PRESSURE REGULATOR. IT IS 2 WIRE COMPATIBLE RESIDENTIAL CONTROL ZONE KIT.	2
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-CV-09-12 XFS-CV SUB-SURFACE AND ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.3 PSI CHECK VALVE. 0.9 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. SPECIFY XF INSERT FITTINGS.	900.3 L.F.

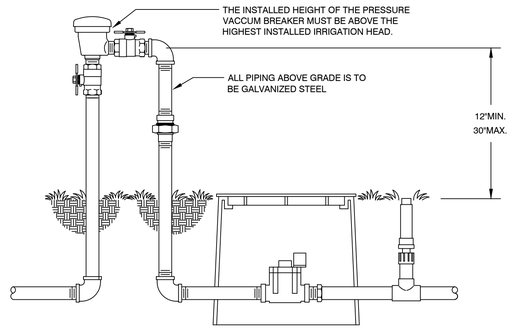
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PGA GLOBE 1IN., 1-1/2IN., 2IN. ELECTRIC REMOTE CONTROL VALVE, GLOBE.	4
	LANDSCAPE PRODUCTS INC. CWV SLIP SOCKET 1/2IN., 3/4IN., 1IN., 1-1/4IN., 1-1/2IN.,2IN. SLIP SOCKET PLASTIC BALL VALVE. QUARTER-TURN SHUTOFF DESIGNED FOR IRRIGATION, SPAS, POOLS AND OTHER GENERAL COLD WATER APPLICATIONS. 125 PSI RATING. SAME SIZE AS MAINLINE.	1
BF	ZURN 720A 1" PRESSURE VACUUM BREAKER	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
LI	RAIN BIRD LNK2WIFI UPGRADES CONTROLLERS (ESP-M, ESP-RZXE, ST8) TO HAVE WEATHER DATA FOR ET-BASED ADJUSTMENTS (WATERSENSE APPROVED) & WIFI CAPABILITIES -	1
RS	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1
M	WATER METER 1" BADGER RECORDALL DISC METER OR EQUAL	1
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	1,277 L.F.
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	114.3 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40	116.3 L.F.



THE QUANTITIES SHOWN IN THE LEGEND SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.

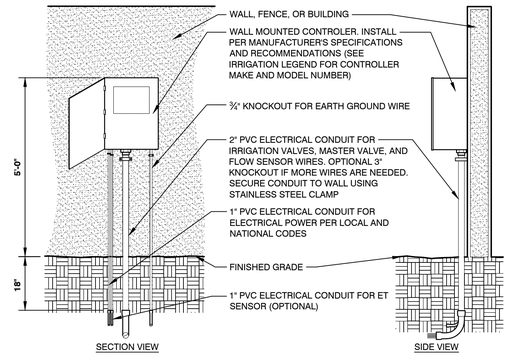
CRITICAL ANALYSIS

Generated:	2022-11-18 11:54
P.O.C. NUMBER: 01	
Water Source Information:	BADGER RECORDALL DISC METER OR EQUAL
FLOW AVAILABLE	
Water Meter Size:	1"
Flow Available	31.06 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	50 PSI
Elevation Change:	0.00 ft
Service Line Size:	1 1/2"
Length of Service Line:	5 ft
Pressure Available:	50 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	20.4 GPM
Flow Available at POC:	31.06 GPM
Residual Flow Available:	10.66 GPM
Critical Station:	1
Design Pressure:	30 PSI
Friction Loss:	1.44 PSI
Fittings Loss:	0.14 PSI
Elevation Loss:	0 PSI
Loss through Valve:	6.02 PSI
Pressure Req. at Critical Station:	37.6 PSI
Loss for Fittings:	0.04 PSI
Loss for Main Line:	0.36 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	4.31 PSI
Loss for Water Meter:	2.32 PSI
Critical Station Pressure at POC:	44.6 PSI
Pressure Available:	50 PSI
Residual Pressure Available:	5.37 PSI



1 WILKINS MODEL 720A PRESSURE VACCUM BREAKER

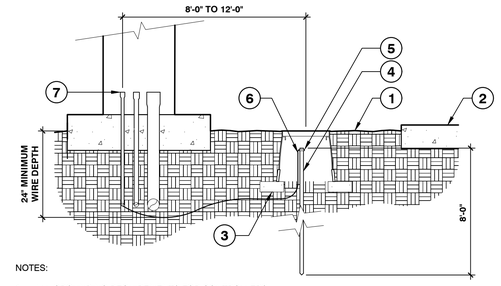
N.T.S I-01



NOTES:
1. COMMON AND CONTROLLER WIRE TO BE BUNDLED USING ELECTRICAL TAPE 10'-0" ON CENTER.
2. GROUNDING RODS SHALL BE LOCATED BETWEEN 8'-0" TO 12'-0" AWAY FROM THE CONTROLLER. GROUNDING RODS SHALL BE ⅝" IN DIAMETER x 8' IN LENGTH. CONNECT THE GROUNDING ROD TO THE CONTROLLER USING 6 GAUGE BARE COPPER WIRE OR PER THE MANUFACTURER'S SPECIFICATIONS. SEE GROUNDING ROD DETAIL.
3. ET STATION SHALL BE INSTALLED NO FURTHER THAN 90' AWAY FROM THE CONTROLLER AND A MINIMUM OF 15' OFF THE GROUND, OUT FROM UNDER ANY OVERHEAD OBSTRUCTIONS SUCH AS, BUT NOT LIMITED TO, BUILDING OVERHANGS, TREES, OR UTILITIES.

2 WALL MOUNTED CONTROLLER

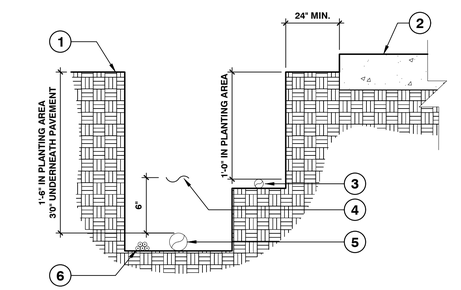
1/2" = 1'-0" FX-IR-FX-CONT-05



NOTES:
1. ALL GROUNDING REQUIREMENTS FOR CONTROLLERS SHALL CONFORM TO LOCAL ELECTRIC CODES.
2. GROUNDING ROD SHALL NOT BE LOCATED IN THE SAME TRENCH AS IRRIGATION MAINLINES OR LATERAL LINES.
3. VALVE BOX SHALL BE WRAPPED WITH A MINIMUM 3 MIL THICK PLASTIC AND SECURED TO THE VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.
4. INSTALL GROUNDING ROD PER THE CONTROLLER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

3 GROUNDING ROD

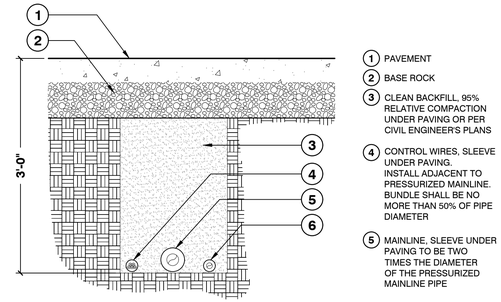
1" = 1'-0" FX-IR-FX-AUXEQ-01



NOTES:
1. SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
2. DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT IF REQUIRED.
3. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.
4. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

4 IRRIGATION TRENCHING

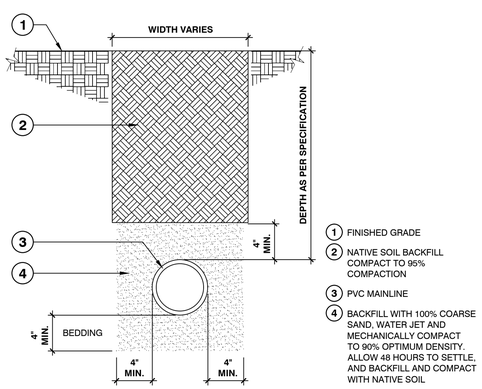
1 1/2" = 1'-0" FX-IR-FX-AUXEQ-08



NOTES:
1. SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
2. ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
3. ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
4. END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.

5 PIPE BENEATH PAVEMENT

1" = 1'-0" FX-IR-FX-AUXEQ-05



6 MAINLINE WITH SAND BEDDING

1 1/2" = 1'-0" FX-IR-FX-AUXEQ-13

PURPLE MARTIN STUDIO
LANDSCAPE ARCHITECTURE
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PROJECT:
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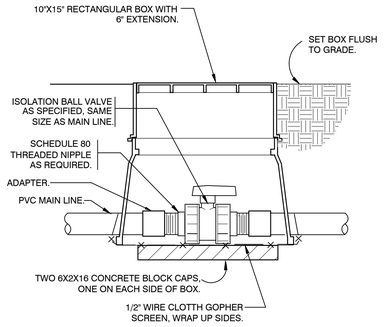
REVISIONS:
1)

SEAL:
Theresa Wymer
Digitally signed by Theresa Wymer
Date: 2022.12.08 16:07:16 -05'00'
MEMBER AMER. SOC. OF LANDSCAPE ARCHITECTS REGISTERED LANDSCAPE ARCHITECT
MEMBER ASLA FL LICENSE #LA6667363

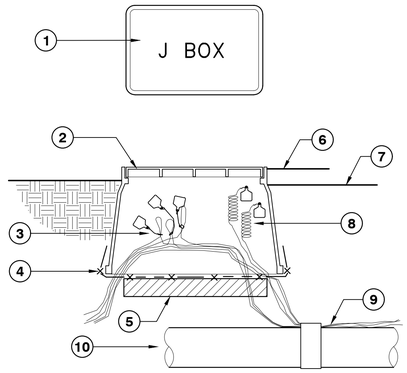
DRAWING:	IRRIGATION NOTES, SCHEDULES, & DETAILS
SCALE:	DATE:11.18.22
SHEET #	L-5
CAD ID:	



1 TRUE UNION BALL ISOLATION VALVE

N.T.S

I-02

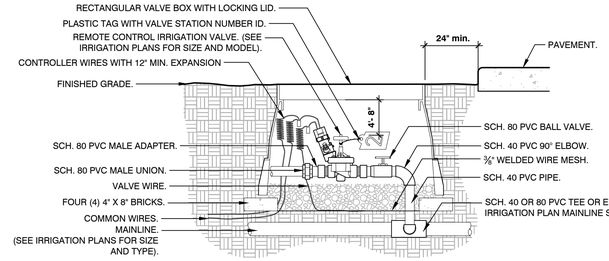


1. VALVE BOX LID, HEAD BRAND "J BOX" ON LID WITH 2" HIGH LETTERS
2. 10" X 15" BOX
3. LOOP, BUNDLE, AND LABEL SPARE WIRES THAT ARE TO CONTINUE, AS OCCURS
4. 1/2" WIRE CLOTH GOPHER PROTECTION SCREEN, WRAP 6" UP SIDES
5. TWO 6" X 2" X 16" CONCRETE BLOCK CPAS, ONE ON EACH SIDE OF BOX
6. SET BOX FLUSH TO GRADE AT LAWN
7. SET BOX 2" ABOVE GRADE AT SHRUBS
8. SPARE WIRES THAT ARE TO TERMINATE AT THIS BOX: COIL 30" LENGTH AND I.D. TAG
9. WIRES TO CONTROLLER
10. MAINLINE AS OCCURS

2 WIRE BUNDLE JUNCTION BOX

1 1/2" = 1'-0"

FX-IR-FX-AUXEQ-16



NOTE:

1- LOCATE VALVE BOX WITHIN 24" OF PAVEMENT EDGE IN PLANTING AREA WHERE EASILY ACCESSIBLE WHENEVER POSSIBLE.

2- COMMON WIRE AND CONTROLLER WIRE SHALL BE DIRECT BURIAL 14 AWG OR LARGER. COLOR: COMMON (WHITE), CONTROLLER WIRE FOR TURF (BLUE), AND CONTROLLER WIRE FOR SHRUBS (RED). (SEE SPECIFICATIONS FOR 2-WIRE CONTROLLERS).

3- ALL WIRE RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. SEE SPLICE BOX DETAIL. WIRE CONNECTIONS SHALL BE MADE USING DBR/Y-6 CONNECTORS OR APPROVED EQUAL.

4-VALVE BOX SHALL BE WRAPPED WITH MIN. 3 MIL THICK PLASTIC AND SECURE IT USING DUCT TAPE OR ELECTRICAL TAPE.

5- MAINLINES 4" OR LARGER SHALL USE SADDLES AT THE CONNECTIONS POINTS TO THE IRRIGATION VALVE. (SEE SPECIFICATIONS FOR IRRIGATIONS SADDLES).

6- ALL SCH. 80 PVC TO SCH. 40 PVC THREADED CONNECTIONS SHALL BE MADE USING TEFLON TAPE.

7- VALVE BOXES SHALL BE LOCATED IN PLANTING AREAS.

3 REMOTE CONTROL IRRIGATION VALVE

1 1/2" = 1'-0"

FX-IR-FX-RCV-02

4 1" DRIP VALVE W/BASKET FILTER

1 1/2" = 1'-0"

FX-IR-FX-DRIP-13

5 TURF SPRAY FLEX ASSEMBLY

3" = 1'-0"

FX-IR-FX-HEAD-04

1. FINISHED GRADE
2. PRESSURE COMPENSATING BUBBLER SHALL BE SET 1" ABOVE FINISHED GRADE (SEE IRRIGATION SCHEDULE FOR MAKE AND MODEL)
3. SWING JOINT, SEE DETAIL
4. SCH. 40 PVC 90° ELBOW SLIP TO THREAD
5. LATERAL LINE IRRIGATION (SEE IRRIGATION PLANS FOR SIZING)
6. EDGE OF ROOT BALL. SETTLE BACKFILL SO IRRIGATION FLOWS THROUGH ROOT BALL
7. EDGE OF ROOT BALL
8. EXISTING OR MODIFIED SOIL (SEE SPECIFICATIONS FOR SOIL MODIFICATION)
9. SCH. 40 PVC TEE OR 90° ELBOW

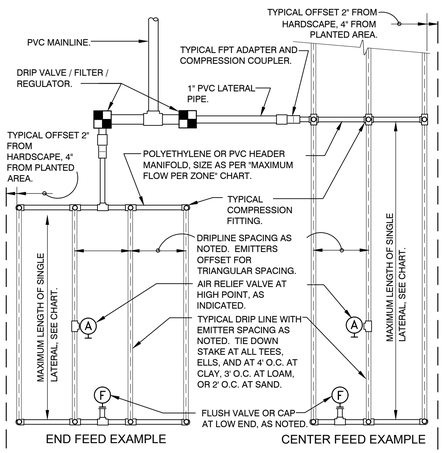
NOTES:

1. ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
2. ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
3. CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOT BALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.

6 IRRIGATION BUBBLER W/ LAYOUT

3/4" = 1'-0"

FX-IR-FX-BUBB-04



MAXIMUM LATERAL LENGTH (FEET)						
	EMITTER FLOW RATE GPH					
PSI	12" SPACING 0.6	0.9	18" SPACING 0.6	0.9	24" SPACING 0.6	0.9
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171

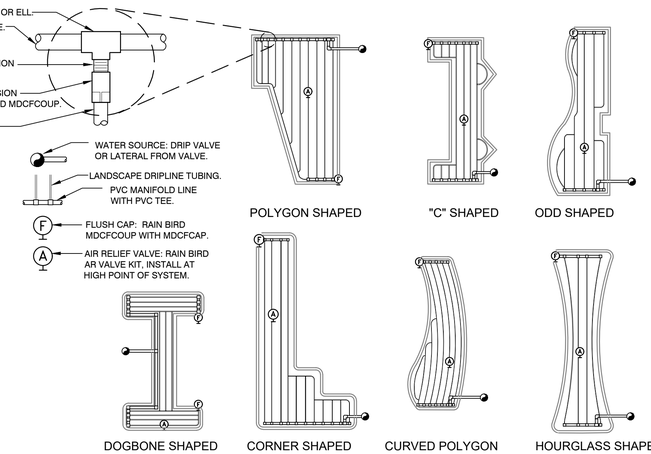
GRID PRECIPITATION RATES (IN/HR)			
		EMITTER FLOW RATE	
EMITTER SPACING	LATERAL SPACING	0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	8.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	31.8 GPM	2.9 PSI
2"	52.4 GPM	2.2 PSI

SLOPED CONDITION NOTE:

1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP ⅔ OF SLOPE,
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM ⅓ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM ⅓ ON A SEPARATE VALVE.



7 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

N.T.S.

FX-IR-RB-DRIP-25

PURPLE MARTIN STUDIO
LANDSCAPE ARCHITECTURE

3001 SW 27th Ave UNIT 308
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PROJECT:

AYAD RESIDENCE

401 WEST 30TH ST.
MIAMI BEACH, FLORIDA

REVISIONS:
1)

SEAL:

Theresa Wymer

Digitally signed by Theresa Wymer
Date: 2022.12.08 16:08:00 -05'00'

MEMBER ISLA FL LICENSED LANDSCAPE ARCHITECT

DRAWING: IRRIGATION DETAILS	
SCALE:	DATE: 11.18.22
SHEET # L-6	
CAD ID:	