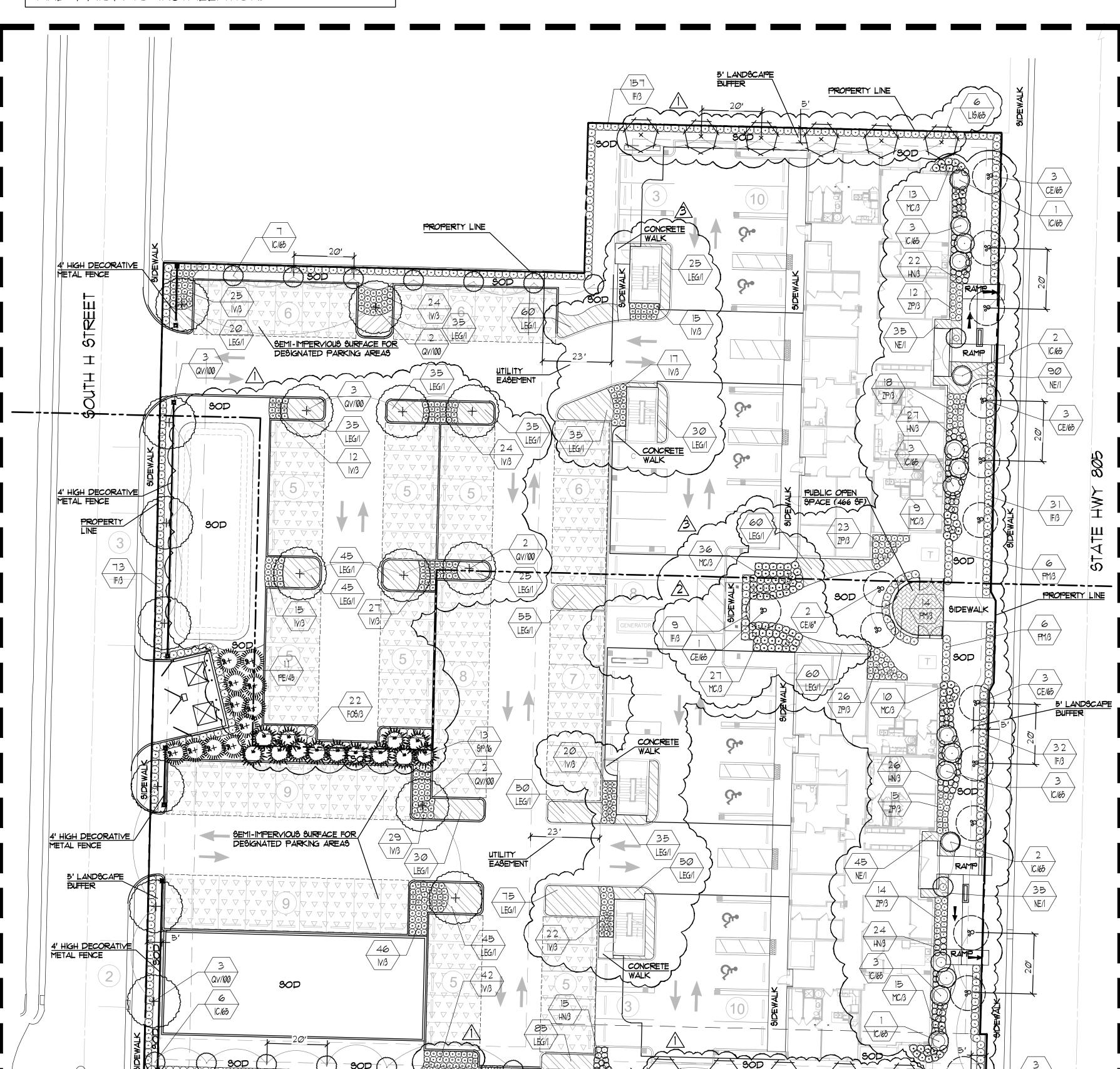
NOTE:

PLANTINGS WITHIN THE UTILITY EASEMENT WILL BE LIMITED TO SHRUBS, GROUNDCOVERS & SOD. IF MODIFICATIONS TO THE PLANTING DESIGN OR ROOT BARRIERS IN SPECIFIC LOCATIONS ARE NEEDED, THEY WILL BE ADDRESSED AT CONSTRUCTION PERMITTING AND PRIOR TO INSTALLATION.

PROPERTY LINE ,

CONTINUOUS HEDGE/

SCHEDULE OF DRAWINGS LANDSCAPE PLAN L3-1 LANDSCAPE DETAILS & PLANT LIST TREE MITIGATION PLAN IR-1 IRRIGATION PLAN IRD-1 IRRIGATION DETAILS AND LEGEND IRRIGATION SPECIFICATIONS

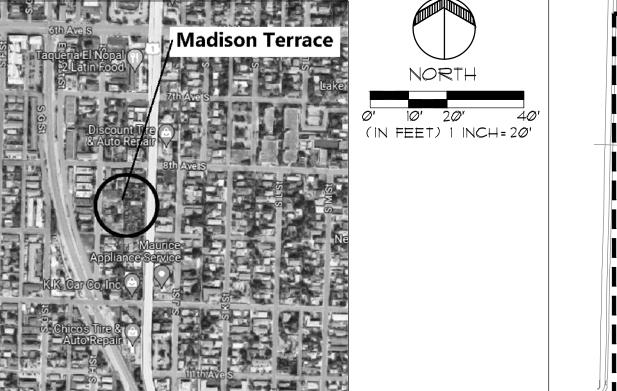


5' LANDSCAPE BUFFER

PROPERTY LINE







KEY MAP SCALE:N.T.S.

LANDSCAPE CALCULATIONS:

IMPERVIOUS COVERAGE

• TOTAL ACREAGE: 82,008 SF (1.883 AC)

 TOTAL IMPERVIOUS: 53,250 SF • 53,250 / 82,008 = 64.93% (65% MAX. ALLOWED)

PERIMETER LANDSCAPE BUFFER

5' REQUIRED PERIMETER LANDSCAPE STRIP BETWEEN OFF-STREET PARKING AND ROW: 110 LF.

• REQUIRED: I MEDIUM TREE=110 LF/ 20 LF=6, PROVIDED:11

CONTINUOUS 3' HEDGE

PERIMETER LANDSCAPE BETWEEN OFF-STREET PARKING AND ABUTTING PROPERTIES

144 LF OF YUA FRONTING ABUTTING PROPERTY

• REQUIRED: I MEDIUM TREE=144/ 20 LF=7, PROVIDED:18 CONTINUOUS 3' HEDGE

PERIMETER LANDSCAPE BUFFER BETWEEN OTHER VEHICULAR USE • REQUIRED: I LARGE TREE=296 LF/ 25 LF=8, PROVIDED:12

CONTINUOUS 3' HEDGE

NORTH PERIMETER LANDSCAPE BUFFER

• REQUIRED: I LARGE TREE=185 LF/ 25 LF=7, PROVIDED:7

• REQUIRED: I MEDIUM TREE=140/ 20 LF=7, PROVIDED:7

CONTINUOUS 3' HEDGE

SOUTH PERIMETER LANDSCAPE BUFFER REQUIRED: | LARGE TREE=181 LF/ 25 LF=1, PROVIDED:1

• REQUIRED: I MEDIUM TREE=122/ 20 LF=6, PROVIDED:6

CONTINUOUS 3' HEDGE

INTERIOR LANDSCAPE FOR PARKING AREAS TOTAL PARKING LOT AREA:39,080 SFX20%=7,816 SF

TOTAL REQUIRED YUA LANDSCAPE ISLANDS: 7,816 SF (20%)

PROVIDED: 5,276 SF (2,540 SF SHORT)

INTERIOR LANDSCAPE (EXCLUSIVE OF VUA AND BUILDINGS): 6,437 SF • REQUIRED: I MEDIUM TREE = 6,437 SF/ 400 SF = 16, PROVIDED: 20

NATIVE PLANT MATERIAL CALCULATIONS

• SEVENTY-FIVE (75) PERCENT OF REQUIRED TREE SPECIES SHALL BE

NATIVE: PROVIDED = (100%). SEVENTY-FIVE (75) PERCENT OF REQUIRED SHRUB SPECIES SHALL BE

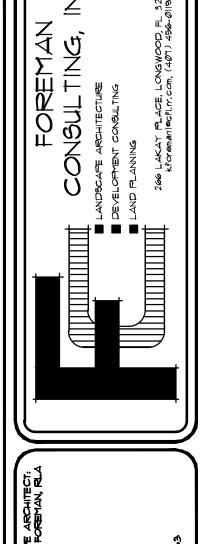
NATIVE: PROVIDED = (100%).

NO MORE THAT 50% OF LANDSCAPE AREAS SHALL BE SOD: TOTAL LANDSCAPE AREA=27,906, TOTAL PROVIDED SOD=12,600 SF (45.2%)

HEDGE/FENCE PROVIDED TO SCREEN MECHANICAL EQUIPMENT

ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM, AUTOMATICALLY OPERATED, TO PROVIDE COMPLETE COVERAGE OF ALL PLANT MATERIALS TO BE MAINTAINED. THIS SYSTEM SHOULD BE DESIGNED TO AUTOMATICALLY SHUT OFF WHEN RAINING. IRRIGATION SYSTEM SHALL BE EQUIPPED WITH RAIN SENSOR





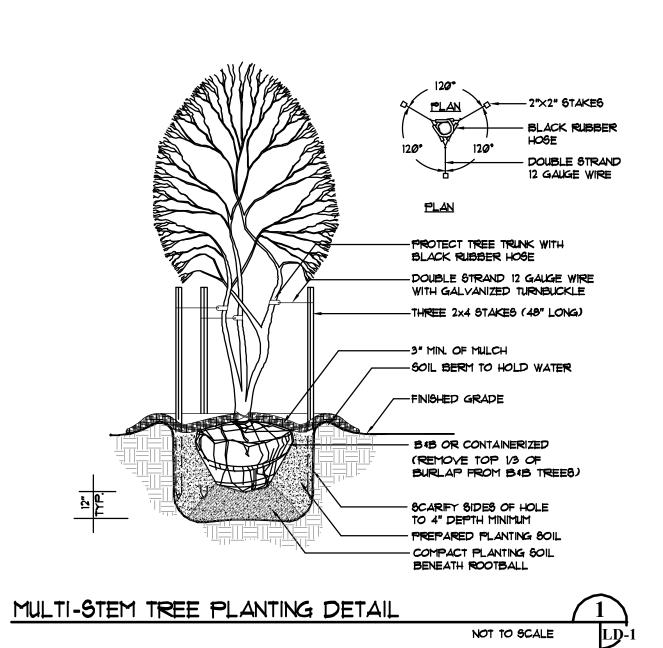
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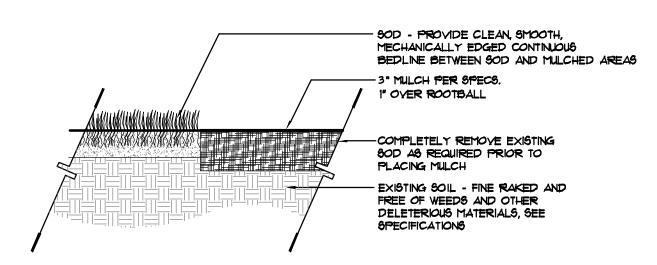
01-28-2025 SCALE:

1"= 2*0*' DRAWN BY:

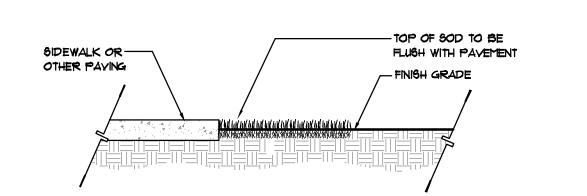
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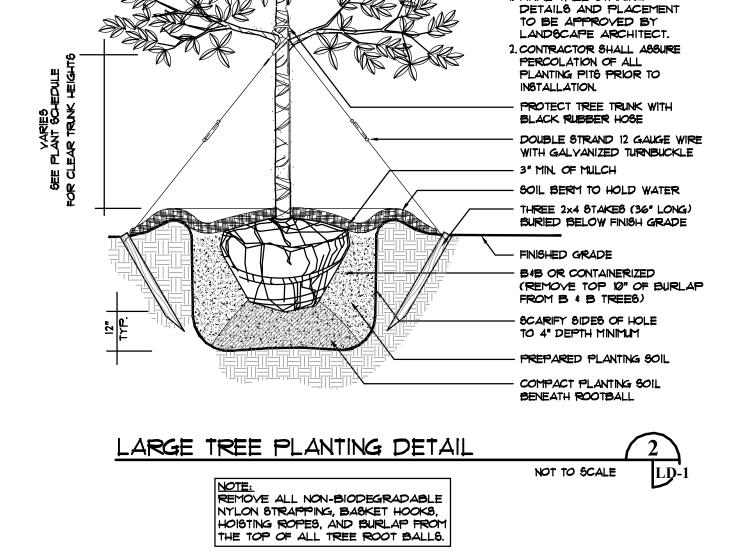




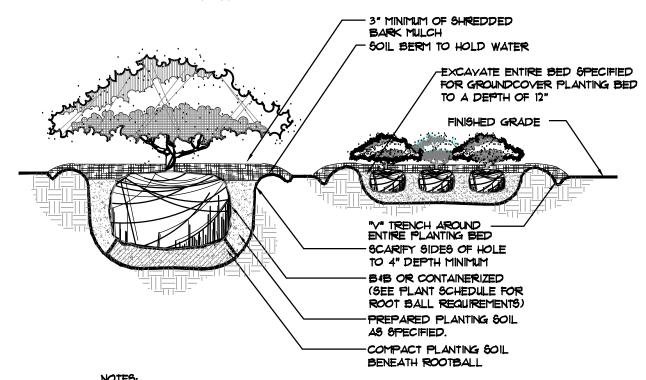
SOD PLACEMENT ADJ. TO MULCH



SOD PLACEMENT ADJ. TO PAYEMENT (4)







I. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION. SEE SPECS SECTION 02950 PART 3 EXECUTION.

- 2. IN SEMI-IMPERYIOUS SOIL CONDITIONS, ROOTBALL ELEVATION SHALL BE ;2" ABOVE FINISH GRADE. COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO SETTING ROOTBALL ELEVATIONS.
- 3. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.



PLANT LIST:

- DOUBLE STRAND

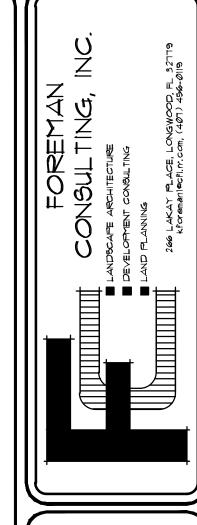
12 GAUGE WIRE

NOTE:
I. FINAL TREE STAKING

				TREE	5		
	QTY.	ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE & SPECIFICATION	NATIVE	FLORIDA FRIENDLY
	13	CE/65	Conocarpue erectue	Green Buttonwood	65 gal., 12'-14' x 5'-6', 3" cal.	YES	YE S
	2	CE/6"	Conocarpus erectus	Green Buttonwood	6" min. cal.	YES	YE9
	31	IC/65	llex coeine	Dahoon Holly	65 gal., min. 10" ht., 2 1/2" cal.	YE9	YES
\triangle	11	} LIS/65	Lagerstroemia indica Muskogee'	Lavender Crape Myrtle	65 gal., 8'-10' ht., 5'-6' opr., 3" cal., Standard	YES	YE9
\$	11	PE/45	Pinus elliotii	Slash Pine	45 gal., min. 10' ht., 3" cal.	YES	YES
}	15	QY/100	Quercus virginiana	Live Oak	100 gal., 12'-14' x 5'-6', 3" cal.	YE9	YE9
				PALM	5		
	QTY.	ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE & SPECIFICATION	NATIVE	FLORIDA FRIENDLY
	13	SP/16	Sabal palmetto	Sabai Paim	16' c.t. ht., regenerated.	YES	YES
_			SH	RUBS, VINES & C	ROUNDCOVER	- 1	
	QTY.	ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE & SPECIFICATION	NATIVE	FLORIDA FRIENDLY
	22	FO\$/3	Forestiera segregate	Florida Privet	3 gal., 24" ht., 30" o.c.	YES	YE 9
<u>A</u>	114	HN/3	Hamelia nodosa	Dwarf Firebush	3 gal., 24" ht.,24" spr., 30" o.c.	YES	YE9
	496	IF/3	Illicium floridanum	Florida Anise	3 gal., 18"-24" x 18"-24", 30" o.c.	YES	YE 9
<u>A</u>	318	IV/3	llex vomitoria "Yaupon"	Yaupon Holly	3 gal., 15"-18" x 15"-18", 24" o.c.	YES	YE9
<u>A</u> (ore }	LEG/1	Liriope 'Emerald Goddess'	Emerald Goddess	1 gal., 4-5 ppp., full, 15" o.c.	NO	YE9
<u>A</u> {	1100	MC/3	Muhlenbergia capillaria	Muhiy Grass	3 gal., 24"-30" × 18"-24", 30" o.c.	YES	YES
<u> </u>	205	NE/I	Nephrolepie exaltata	Boston Fern	1 gal., 4-5 ppp, 12" runners, 12" o.c.	YES	YES
<u>A</u> [26	PM/3	Podocarpus macrophyllus	Podocarpus	3 gal., 24" ht., 30" o.c.	YES	YE9
<u>\$</u>	108	ZP/3	Zamia pumilo	Coontie	3 gal., 24" ht., 30" o.c.	YES	YES
				SOD			
	QTY.	ABBREY.	BOTANICAL NAME	COMMON NAME	SIZE & SPECIFICATION	NATIVE	FLORIDA FRIENDLY
\wedge	7,492 SF.	5 0D	Paspalum notatum	Bahia Sod	solid sod	NO	YE9

LANDSCAPE NOTES:

- 1. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS SPECIFIED IN "GRADES AND STANDARDS FOR NURSERY PLANTS", "PARTS I AND 2, BY DIVISION OF PLANT INDUSTRY, FLORIDA", DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS FOR NURSERY STOCK!, LATEST EDITION.
- 2. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES IN THE PLANT LIST. IN THE EVENT OF A CONFLICT BETWEEN QUANTITIES ON THE PLANT LIST AND THE PLANS, THE PLANS SHALL CONTROL AND THE DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BID. ANY DEVIATION FROM THESE PLANS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
- 3. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, ORDINANCES AND LOCAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM THE WORK.
- 4. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR INSPECTION OF EXISTING CONDITIONS AND PROMPTLY REPORTING ALL DISCREPANCIES AND IMPROPER CONDITIONS (WETNESS, MUCK, DEBRIS, ECT) TO LANDSCAPE ARCHITECT PRIOR TO BIDDING. CONTRACTOR IS RESPONSIBLE FOR SOIL ANALYSIS PRIOR TO INSTALLATION OF PLANTINGS, AND IS RESPONSIBLE FOR ALL SOIL AMENDMENTS TO CONFORM TO SPECIFICATIONS.
- 5. THE LANDSCAPE CONTRACTOR SHALL ACQUAINT HIMSELF WITH ALL CIVIL DRAWING AS THEY RELATE TO PAVING SITE GRADING, AND ALL UTILITIES, (INCLUDING WATER, SEWER AND ELECTRICAL SUPPLY) TO PRECLUDE ANY MISUNDERSTANDING AND ENSURE TROUBLE FREE INSTALLATION. THE EXACT LOCATION OF ALL EXISTING STRUCTURES, UNDERGROUND UTILITIES, EXISTING UNDERGROUND SPRINKLERS AND PIPE MAY NOT BE INDICATED ON DRAWINGS. THE CONTRACTOR SHALL CONDUCT HIS WORK IN A MANNER TO PREVENT INTERRUPTION OR DAMAGE TO EXISTING SYSTEMS WHICH MUST REMAIN OPERATIONAL. THE CONTRACTOR SHALL PROTECT UTILITY SERVICES WHICH MUST REMAIN OPERATIONAL AND SHALL BE RESPONSIBLE FOR THERE REPLACEMENT IF DAMAGED BY HIM.
- 6. ALL PLANTING BEDS SHALL RECEIVE A 3" LAYER (1" OVER ROOTBALL) OF PINE BARK MULCH.



DESCRIPTION 03-24-26 REVISIONS PER CLIENT DIRECTIONS 06-11-26 REVISIONS PER CITY COMPENTS 07-11-26 REVISIONS TO RELOCATED GENERATOR (* RYM KJF 07-11-26 REVISIONS TRANSFORMERS 0-11-26 REVISIONS TRANSFORMERS 0-11-27 REVISIONS TRANSFORMERS 0-11-27 REVISIONS TRANSFORMERS 0-11-28 REVISIONS TRANSFORMERS 0-11-29 REVISIONS TRANSFORMERS 0-11-29 REVISIONS TRANSFORMERS 0-11-20 RE	LANDSCAPE ARCHITECT:					REG. • 663	
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03-24-21 06-11-25 01-11-25 DATE	DESCRIPTION	REVISIONS PER CLIENT DIRECTIONS REVISIONS PER CITY COMMENTS	REVISIONS TO RELOCATED GENERATOR \$				
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150N TERRACE PHASE
POR: PARAMETRIC DESIGN & DEVELOPMEN
LAKE WORTH BEACH, FLORIDA

DATE: 01-28-2025 6CALE:

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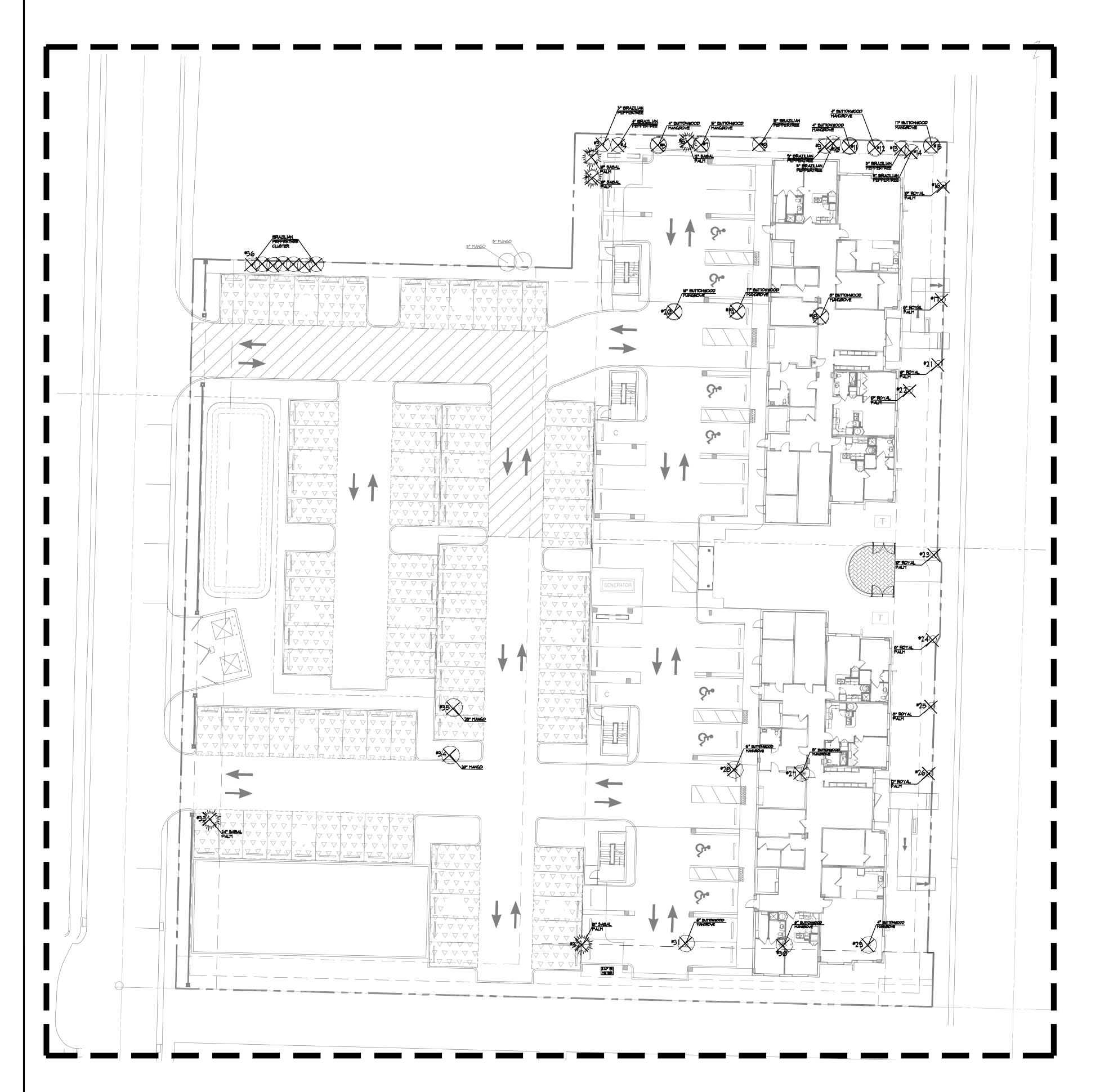
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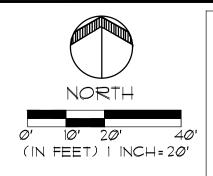
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TREE MITIGATION LEGEND:

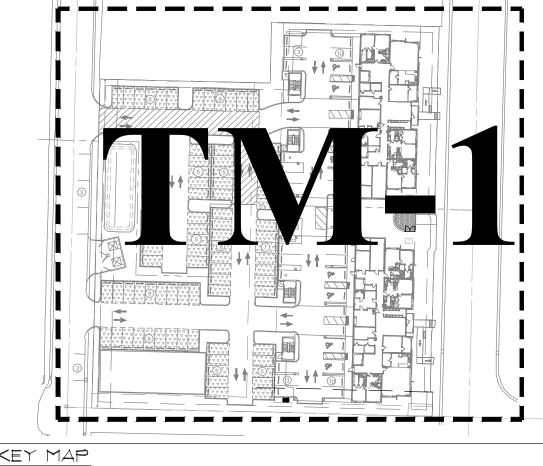
BRAZILIAN
PEPPERTREE
BUTTONWOOD
MANGROYE

SABAL PALM

(+) ROYAL PALM

+ LIVE OAK

BOTTLE BRUSH



9CALE:N.T.9.

EXISTING TREES TABLE:

TREE #	TREE TYPEE	TREE SIZE	TREE TO BE REMOVED	EXPLANATION / COMMENTS
1	SABAL PALM	10	YES	CONFLICT WITH CONSTRUCTION
2	SABAL PALM	10	YES	CONFLICT WITH CONSTRUCTION
3	BRAZILIAN PEPPERTREE	3	YES	INVASIVE SPECIES
4	BRAZILIAN PEPPERTREE	4	YES	INVASIVE SPECIES
5	BUTTONWOOD MANGROVE	4	YES	CONFLICT WITH CONSTRUCTION
6	SABAL PALM	12	YES	CONFLICT WITH CONSTRUCTION
7	BUTTONWOOD MANGROVE	16	YES	CONFLICT WITH CONSTRUCTION
8	BRAZILIAN PEPPERTREE	15	YES	INVASIVE SPECIES
9	BRAZILIAN PEPPERTREE	9	YES	INVASIVE SPECIES
10	BRAZILIAN PEPPERTREE	5	YES	INVASIVE SPECIES
11	BUTTONWOOD MANGROVE	4	YES	CONFLICT WITH CONSTRUCTION
12	BUTTONWOOD MANGROVE	4	YES	CONFLICT WITH CONSTRUCTION
13	BRAZILIAN PEPPERTREE	5	YES	INVASIVE SPECIES
14	BRAZILIAN PEPPERTREE	5	YES	INVASIVE SPECIES
15	BUTTONWOOD MANGROVE	17	YES	CONFLICT WITH CONSTRUCTION
16	ROYAL PALM	10	YES	CONFLICT WITH CONSTRUCTION
17	ROYAL PALM	8	YES	CONFLICT WITH CONSTRUCTION
18	BUTTONWOOD MANGROVE	8	YES	CONFLICT WITH CONSTRUCTION
19	BUTTONWOOD MANGROVE	17	YES	CONFLICT WITH CONSTRUCTION
20	BUTTONWOOD MANGROVE	10	YES	CONFLICT WITH CONSTRUCTION
21	ROYAL PALM	10	YES	CONFLICT WITH CONSTRUCTION
22	ROYAL PALM	10	YES	CONFLICT WITH CONSTRUCTION
23	ROYAL PALM	10	YES	CONFLICT WITH CONSTRUCTION
24	ROYAL PALM	8	YES	CONFLICT WITH CONSTRUCTION
25	ROYAL PALM	8	YES	CONFLICT WITH CONSTRUCTION
26	ROYAL PALM	12	YES	CONFLICT WITH CONSTRUCTION
27	BUTTONWOOD MANGROVE	8	YES	CONFLICT WITH CONSTRUCTION
28	BUTTONWOOD MANGROVE	6	YES	CONFLICT WITH CONSTRUCTION
29	BUTTONWOOD MANGROVE	4	YES	CONFLICT WITH CONSTRUCTION
30	BUTTONWOOD MANGROVE	6	YES	CONFLICT WITH CONSTRUCTION
31	BUTTONWOOD MANGROVE	6	YES	CONFLICT WITH CONSTRUCTION
32	SABAL PALM	18	YES	CONFLICT WITH CONSTRUCTION
33	SABAL PALM	24	YES	CONFLICT WITH CONSTRUCTION
34	MANGO	20	YES	CONFLICT WITH CONSTRUCTION
35	MANGO	28	YES	CONFLICT WITH CONSTRUCTION
36	BRAZILIAN PEPPERTREE	N/A	YES	INVASIVE SPECIES

TREE MITIGATION CALCULATIONS:

- TOTAL ON SITE TREE CALIPER INCHES
- = 354" = 46"
- LESS INVASIVE SPECIES (TO BE REMOVED)
 LESS PALM INCHES (TO BE MITIGATED SEPARATELY)
 - ELY) = 150"
- TOTAL TREE CALIPER INCHES TO BE MITIGATED
- = 158"
- TOTAL TREE CALIPER INCHES PROPOSED
 PER LANDSCAPE PLAN

= 248"

NOTES:

(1) PER CITY CODE, TWO (2) PROPOSED TREES WILL BE MIN. 6 INCHES CALIPER FOR REPLACEMENT OF TWO (2) MANGO TREES (#34 & #35) THAT ARE GREATER THAN 18 INCHES CALIPER.

(2) PER CITY CODE, THE THIRTEEN (13) PALMS ARE BEING MITIGATED PALM-FOR PALM REPLACEMENT.

FOREMAN

FOREMAN

CONSULTING, INC.

LANDSCAPE ARCHITECTURE

DEVELOPMENT CONSULTING

LAND PLANNING

266 LAKAY PLACE, LONGWOOD, FL 32719

kforemaniacfilm: (401) 456-0119

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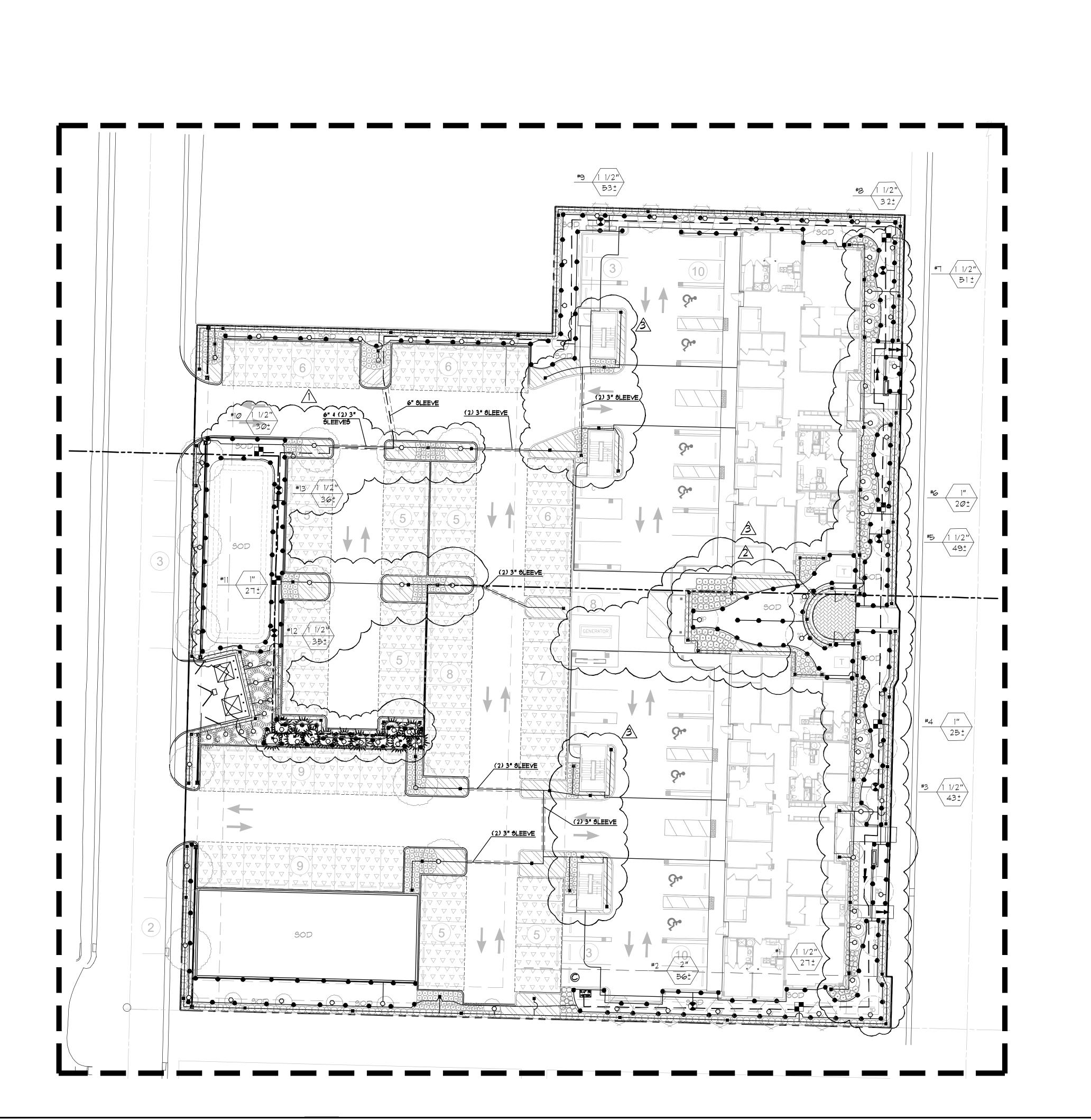
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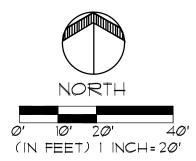
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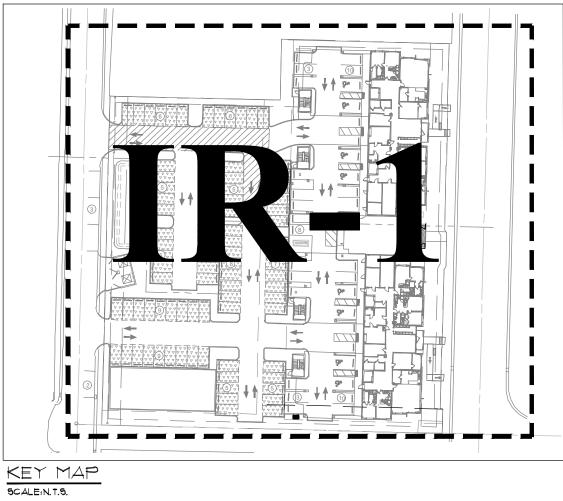
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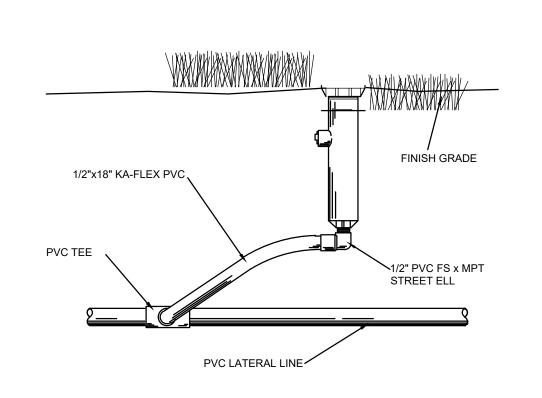
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1"= 2*0*'

SCALE:





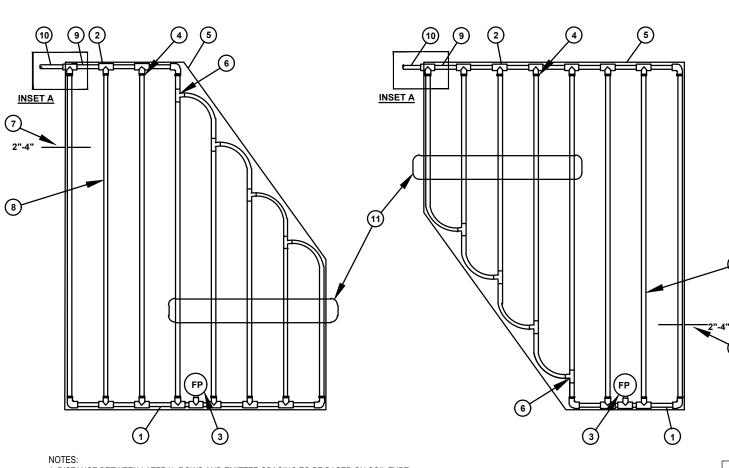


P	ATTERN	GPM @ 30-psi	RADIUS @ 30-ps								
15F	FULL	3.70	15'								
15TQ	THREE QUARTER	2.78	15'								
15TT	TWO THIRD	2.48	15'								
15H	HALF	1.85	15'								
15T	THIRD	1.23	15'								
15Q	QUARTER	.93	15'								
15EST	END STRIP	.61	4'x15'								
15CST	CENTER STRIP	1.21	4'x30'								
15SST	SIDE STRIP	1.21	4'x30'								
12F	FULL	2.60	12'								
12TQ	THREE QUARTER	1.95	12'								
12TT	TWO THIRD	1.74	12'								
12H	HALF	1.30	12'								
12T THIRD .87 12'											
12Q QUARTER .65 12'											
10F-LA	FULL	1.57	10'								
10H-LA	HALF	.79	10'								
10T-LA	THIRD	.52	10'								
10Q-LA	QUARTER	.39	10'								
8F-FLT	FULL	1.57	8,								
8H-FLT	HALF	.79	8'								
8T-FLT	THIRD	.52	8'								
8Q-FLT	QUARTER	.39	8*								
ALL PERFORMANCES SHOWN ARE AT 30 PSI											
	RAIN	BIRD NOZZ	LE								
	PERFOR	RMANCE CH	HART								

NOZZLE SELECTION CHART:

IRRIGATION GENERAL NOTES:

- 1. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, AS IT MAY NOT HAVE BEEN POSSIBLE TO ACCURATELY DEPICT THE EXACT LOCATIONS FOR ALL MATERIAL, OR ANTICIPATE THOSE IN-FIELD VARIATIONS WHICH MAY REQUIRE ADJUSTMENT ON SITE.
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH PREVAILING CODES AND REGULATIONS. ALTHOUGH DUE DILIGENCE HAS BEEN EXERCISED IN THE PREPARATION OF THE DOCUMENTS TO AVOID CONFLICTS, THE RESPONSIBILITY FOR VERIFICATION AND CONFORMANCE TO THE PARTICULAR CODES FOR THIS LOCATION SHALL REMAIN SOLELY THAT OF THE INSTALLER. THE INSTALLER SHALL OBTAIN ANY LOCATES, PERMITS AND INSPECTIONS.
- 3. ALL WORK SHALL BE CLOSELY COORDINATED WITH THAT OF OTHER TRADES, IN ORDER TO AVOID CONFLICTS. THE INSTALLATION SHALL BE COORDINATED WITH ALL NEW AND EXISTING IMPROVEMENTS, AND WITH THE ACTUAL INSTALLED BEDLINES. SOD LIMITS, AND PLANT LOCATIONS,
- 4. ALL MATERIAL AND LABOR REQUIRED TO PROVIDE A COMPLETE, FULLY OPERATIONAL, AND FULLY GUARANTEED SYSTEM SHALL BE CONSIDERED PART OF THE WORK, WHETHER OR NOT THEY ARE SPECIFICALLY INDICATED IN THE DOCUMENTS.
- 5. ALL HEADS AND OTHER EQUIPMENT SHALL BE INSTALLED WITH ADEQUATE AND UNIFORM CLEARANCES FROM ALL PAVING, CURBS, SIDEWALKS, WALLS, AND OTHER OBSTACLES, SO THAT DAMAGE TO EQUIPMENT DOES NOT OCCUR DURING LANDSCAPE MAINTENANCE OPERATIONS. ALL SPRINKLERS SHALL BE ADJUSTED TO OBTAIN MAXIMUM COVERAGE OF PLANT MATERIAL, WHILE MINIMIZING OVERSPRAY ONTO WINDOWS OR WALLS, OR OTHER IMPERVIOUS SURFACES, PARTICULARLY WOODWORK AND/OR TRIM. THE INSTALLER SHALL UTILIZE SUITABLE PRESSURE-COMPENSATING SCREENS OR ADJUSTABLE-ARC NOZZLES WHERE REQUIRED TO ACHIEVE MAXIMUM COVERAGE CONTROL.
- 6. THE INSTALLER SHALL BE EXPECTED TO BE FAMILIAR WITH AND FOLLOW THE INSTRUCTIONS CONTAINED HEREIN, ON THE DRAWINGS, IN THE CONSTRUCTION DETAILS, AND IN THE WRITTEN SPECIFICATIONS. SHOULD A CONFLICT BE DISCOVERED WITHIN THE DOCUMENTS, HE SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND REQUEST CLARIFICATION AS-BUILT DRAWINGS SHALL BE PREPARED. INCLUDING ZONE GALLONAGE DATA FOR EACH UNIT.



NOTES:

1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.

2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.

3. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50 PSI, IT IS

RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

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10 2 9 15

22

33

44

56

XFD Dripline Maximum Lateral Lengths (Feet)

1 PVC EXHAUST HEADER

3 FLUSH POINT (TYPICAL)

BARB X MALE FITTING:

5 PERIMETER OF AREA

8 ON-SURFACE DRIPLINE:

9 PVC SUPPLY MANIFOLD

POTABLE: XFD DRIPLINE

NON-POTABLE: XFDP DRIPLINE

TO MEET LATERAL FLOW DEMAND)

LENGTH SHOWN IN TABLE

(12) PVC SCH 40 RISER PIPE

PVC SCH 40 TEE OR EL (TYPICAL)

SEE RAIN BIRD DETAIL "XFD FLUSH POINT

RAIN BIRD XFF-MA FITTING (TYPICAL)

6 BARB X BARB INSERT TEE OR CROSS RAIN BIRD XFF-TEE OR

RAIN BIRD XFD-CROSS (TYPICAL)

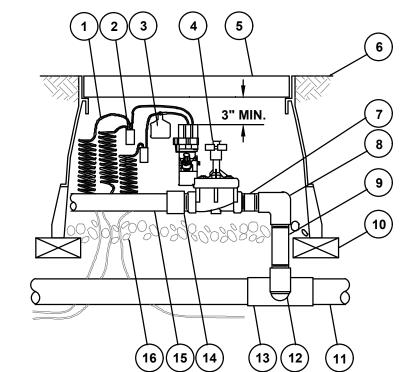
RAIN BIRD XE SERIES DRIPLINE (TYPICAL)

7 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FRO PERIMETER OF AREA

10 PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED

(11) TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED

XFD ON SURFACE DRIPLINE IRREGULAR
SHAPED LAYOUT
NOT TO 9CALE IRD-1



1 30-INCH LINEAR LENGTH OF WIRE, COILED
2 WATERPROOF CONNECTION RAIN BIRD SPLICE-1 (1 OF 2)
3 ID TAG: RAIN BIRD VID SERIES
4 REMOTE CONTROL VALVE: RAIN BIRD PESB WITH NP-HAN

(4) REMOTE CONTROL VALVE:
RAIN BIRD PESB WITH NP-HAN

(5) VALVE BOX WITH COVER: RAIN
BIRD VB-STD

(6) FINISH GRADE/TOP OF MULCH

7 PVC SCH 80 NIPPLE (CLOSE)

8 PVC SCH 40 ELL

9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)

10 BRICK (1 OF 4)

11) PVC MAINLINE PIPE
12) SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13) PVC SCH 40 TEE OR ELL
14) PVC SCH 40 MALE ADAPTER
15) PVC LATERAL PIPE

(16) 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

ELECTRIC REMOTE-CONTROL VALVE 3
PEBS SERIES
NOT TO SCALE

SYMBOL

MANIFACTURER/MODEL/BPECIFICATION

RS 800 SERIES SPRAY HEADS
800- FOR TURE, SPACING, 3 TO 30 FEET (09 TO 6,1 M).
PRESSURE IS TO 10 FOIL 1TO 9 BAR).
PROVINST: 8 AT 8 FBI (008 BAR) OR GREATER, 9.1 GPM (0,02 NOTALIATION, 9)PE ON BOTTOM INLET.

HATTER (22-DRIP ZONE VALVES, PRESSURE REGULATION: 60 OR 40 FB), HOW, 2 TO 20 GPM (102 TO 1200 GPH).
OPERATING PRESSURE, 20 TO 120 PBI, OPERATING
TEMPERATURE: UP TO BOMP, SIZE AS NOTED.

RAIN BIRD 1900- MAD FLOOD
PLYED HOW PATE (060-1.0GPM), FULL CIRCLE

BABBLER (12" FIFT.

RAIN BIRD 1900- MAD FLOOD
PLYED HANDLE FOR NON-POTABLE WATER USE.

RB SPILATE CONTROLLER WITH HUNTER MINI CLICK RAIN SENSOR STATION THING, 0 MIN TO 12 HRS, SEASONAL ADJUST, 30 TO 300% (6 HRS MAXIMA) STATION RN THEM, 4 NOPER-DIPENT PROGRAMS (ABCD), ASCD PROCRAMS CAN OVERLAR PS START INTES PER PROCRAM, PORGRAMS (CAN OVERLAR) PS START INTES PER PROCRAM, PORGRAMS (CAN OVERLAR) PS START INTES PER PROCRAM, PORGRAM DATA CITCLES MICLIPE COSTON DATES, MANIAL STATION, PROGRAMS, 1EST PROCRAM, 100 FREE PROVIDED BY OWNER

(1) 3/4" IRRIGATION MAINLINE: PAC SCHEDILE 40
PAC SCHEDILE 40 IRRIGATION PIPE.

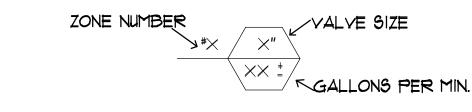
3' CL 100 IRRIGATION MAINLINE: PAC SCHEDILE 40
PAC SCHEDILE 40 IRRIGATION PIPE.

PIPE SLEEVE: PAC SCHEDILE 40

PRIE, INE LATERAL CONNECTION
RB-YED 90 TO 41 BARS, FLOW RATES, 0, 4, 96, AND 9, 9 GPA (1), 13, 12 LHR AND 39 LHR). TEMPERATURE: WATER UP TO 509° (13" C), 12" C) THE WEST CONSIDER.

HATTER PGP ULTRA ROTORS
W. 44 NOZZLE

HATTER PGP ULTRA ROTORS
W. 44 NOZZLE



MADISON TERRACE PHASE 2 IRRIGATION FLOW CHART:

ZONE#	ZONETYPE	GPM	RUNTIME	DAILYUSAGE
1	DRIP	27	15	405
2	SPRAY	56	15	840
3	SPRAY	43	15	645
4	DRIP	25	15	375
5	SPRAY	49	15	735
6	DRIP	20	15	300
7	SPRAY	51	15	765
8	DRIP	32	15	480
9	SPRAY	53	15	795
10	DRIP	30	15	450
11	DRIP	27	15	405
12	SPRAY	35	15	525
13	SPRAY	36	15	540
TOTALS			3 HOURS & 15 MINUTES	7260

TOTAL AREA TO BE IRRIGATED: 16,459 S.F.

NOTES:

ALL SPRINKLER HEADS WITH SPRAY NOZZLES WILL BE PRESSURE-REGULATED PER IRRIGATION PLANS. HIGH-VOLUME IRRIGATION (SPRAYS) IRRIGATED 53.9% OF THE TOTAL LANDSCAPED AREA.

GENERAL IRRIGATION DESIGN NOTES:

- 1. HIGH-VOLUME IRRIGATION DOES NOT IRRIGATE MORE THAN 60% OF THE TOTAL LANDSCAPED AREA (PLEASE SEE THE IRRIGATION FLOW CHART THAT MEETS THIS CRITERIA).
- 2. MICRO IRRIGATION IS USED AND IS CORRECTLY INSTALLED IN ALL LANDSCAPED BEDS.
- IRRIGATION ZONES FOR TURF GRASS AND LANDSCAPED BEDS ARE SEPARATE.
 IRRIGATED AREAS LESS THAN FOUR FEET WIDE ARE IRRIGATED WITH
- CORRECTLY DESIGNED AND INSTALLED MICRO IRRIGATION.
- 5. SPRINKLERS AND EMITTERS ARE LOCATED AT A MINIMUM OF TWO FEET FROM STRUCTURES.
- 6. IRRIGATION SYSTEM IS FREE FROM LEAKS.
- 7. SPRINKLERS IN LOW-LYING AREAS HAVE CHECK VALVES.
- 8. APPLICATION OCCURS IN PROPER SPRAY PATTERNS, MINIMIZING OVER SPRAY ON IMPERVIOUS SURFACES.
- 9. PIPES ARE SIZED TO PREVENT VELOCITIES GREATER THAN FIVE FEET/SECOND.
- 10. PRECIPITATION RATES FOR ALL SPRINKLERS WITHIN A ZONE ARE MATCHED.
- 11. ALL SPRINKLER HEADS WITH SPRAY NOZZLES (NON-ROTARY) ARE PRESSURE-REGULATED AT THE BODY PER IRRIGATION PLANS.
- 12. HEAD SPACING DOES NOT EXCEED 50% OF THE NOZZLE THROW DIAMETER.
- 13. A DEVICE WITH RAIN SHUT-OFF CAPABILITIES IS INSTALLED IN AN OPERABLE LOCATION AND IS FUNCTIONING.

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MADISON TERRACE PHASE 2	PREPARED FOR PARAMETRIC DESIGN & DEVELOPMENT			IRRIGATION PLAN	
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SHEET NO.

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N. T. S.

DRAWN BY:

DESIGNED BY:

CHECKED BY:

IRRIGATION SPECIFICATIONS

IRRIGATION DESIGN BASED ON FOREMAN CONSULTING LANDSCAPE PLAN. CONTRACTOR SHALL REFER TO THESE PLANS TO COORDINATE SPRINKLER AND PIPE LOCATIONS.

THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES, REGULATIONS AND CONVENTIONS. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO ENSURE THE ENTIRE SYSTEM IS INSTALLED AS DESIGNED. IRRIGATION CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL LAWS.

THE SCOPE OF WORK IS SHOWN ON THE PLANS, NOTES AND DETAILS. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION SHALL BE CURRENT AND IN GOOD STANDING.

THE WORK

THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLIES WITH THE IRRIGATION PLANS, SPECIFICATIONS, NOTES, AND DETAILS. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL IF APPLICABLE (PUMP(S), BACKFLOWS, PIPES, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION TO THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, COMPACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW YOLTAGE FEEDS TO YALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.

ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN (AND FREEZE AS APPROPRIATE) SHUT OFF DEVICE. IF THE RAIN SHUT OFF DEVICE IS A RAIN SENSOR, IT SHALL BE INSTALLED TO PREVENT ACTIVATION BY ADJACENT HEADS. ZONES ARE PRIORITIZED FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERNS. THIS SEQUENCING WILL BE A MANDATORY PUNCH LIST ITEM.

THESE PLANS HAVE BEEN DESIGNED TO SATISFY/EXCEED THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION. ALL PRODUCTS SHOULD BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES 12 HOURS PRIOR TO COMMENCEMENT OF WORK.

IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY THEIR WORK IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.

THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THEIR RESPONSIBILITY.

POINT OF CONNECTION (P.O.C.)

THE P.O.C. IS AN EXISTING RECLAIMED IRRIGATION MAINLINE. THE P.O.C. MUST BE CAPABLE OF DELIVERING A MINIMUM OF 80 GPM AT 15 PSI DOWNSTREAM OF THE WATER METER.

CONTRACTOR TO VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO ORDERING OF MATERIALS AND THE BEGINNING OF INSTALLATION. IF THE CONDITIONS CAN NOT BE MET, THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.

THE PIPE

PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 18" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROJECT PROPERTY'S BOUNDARY.

ALL PIPES ARE TO BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING CLASS 200 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".

PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.

MAINLINE SHALL BE PANTONE PURPLE RECLAIMED SCH 40 SOLVENT-WELD SIZED PER PLAN PVC WITH SCH 40 PVC SOLVENT-WELD FITTINGS.

CONTRACTOR TO ENSURE ALL MAINLINE PIPING IS PROPERLY RESTRAINED USING MECHANICAL JOINT FITTINGS, RESTRAINING COLLARS, THREADED RODS, THRUST BLOCKS, ETC..., AS AND WHERE REQUIRED. CONTRACTOR SHALL REFER TO PIPE MANUFACTURERS RECOMMENDED INSTALLATION PRACTICES FOR FURTHER DIRECTION.

PVC PIPE JOINT COMPOUND AND PRIMER: THE PVC CEMENT SHALL BE WELD-ON TILL (GREY, SLOW-DRYING, HEAVY DUTY) AND THE PRIMER SHALL BE WELD-ON PTØ (PURPLE TINTED, COMPATIBLE WITH CEMENT), OR APPROVED EQUALS.

ELECTRICAL POWER SUPPLY

ELECTRICAL SUPPLY FOR IRRIGATION PUMPS, CONTROLLERS, SENSORS, RELAYS, CLUSTER CONTROL UNITS (CCU) TO BE PROVIDED BY IRRIGATION CONTRACTOR. CONTRACTOR TO COORDINATE WITH LOCAL UTILITIES FOR THE INSTALLATION OF, AND CONNECTION TO, SITE AVAILABLE POWER SUPPLIES FOR REQUIRED ELECTRICAL COMPONENTS AS SET FORTH IN THE IRRIGATION PLANS.

ALL ELECTRICAL WORK IS TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY, AND ALL, OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL HOOK-UPS. POWER FOR EACH CONTROLLER/CCU SHALL BE A DEDICATED 120 VOLT, 20 AMP CIRCUIT UNLESS OTHERWISE SPECIFIED IN THE PLANS. POWER FOR EACH PUMP TO BE ACCORDING TO PUMP SPECIFICATIONS INDICATED IN THESE PLANS.

WIRING

IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE; SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES.

TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ALONGSIDE THE MAINLINE. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE. AT ALL VALVE BOXES COIL WIRE AROUND A 3/4" PIECE OF PVC PIPE TO MAKE A COIL USING 30 LINEAR INCHES OF WIRE. MAKE ELECTRICAL CONNECTIONS WITH 3MDBY/R CONNECTORS.

NUMBER ALL WIRES, USING AN ELECTRICAL BOOK OF NUMBERS, ACCORDING TO THE PLANS.
NUMBER WIRES IN ALL YALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER.

- WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:
- *14 WHITE FOR COMMON
- *14 SPARE BLACK COMMON
 *14 INDIVIDUAL COLOR CODED HOT WIRE

*14 SPARE YELLOW HOT WIRE

PARE WIRE

LEAVING EACH CONTROLLER, RUN SIX SPARE WIRES IN BOTH DIRECTIONS (TWELVE SPARE WIRES TOTAL). INSTALL AS 2 COMMON SPARES (4 TOTAL) AND 4 HOT WIRES (8 TOTAL). LOOP THESE WIRES INTO EACH RCY ALONG THEIR PATH AND TERMINATE IN THE LAST VALVE BOX CONTROLLED BY THE WIRES RESPECTIVE CONTROLLER. THE LOOP INTO EACH VALVE BOX SHALL EXTEND UP INTO THE VALVE BOX A MINIMUM OF 8" AND BE READILY ACCESSIBLE BY OPENING THE VALVE BOX LID. THESE WIRES MUST BE ALL NUMBERED AND COLOR CODED AS REQUIRED IN THESE PLANS.

CONTROLLER AND PUMP STATION CONTROL PANEL GROUNDING - CONTRACTOR TO UTILIZE 4"X8"X5/8" COPPER GROUNDING PLATES, 5/8"X10" COPPER CLAD GROUNDING RODS, 'ONE STRIKE' CAD WELLS AT ALL CONNECTION POINTS, "S BARE COPPER WIRE, AND EARTH CONTACT MATERIAL. INSTALL THESE AND OTHER REQUIRED COMPONENTS AS OUTLINED IN THE DETAIL. CONTRACTOR TO VERIFY THAT THE EARTH TO GROUND RESISTANCE DOES NOT EXCEED 10" OHMS. CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION, ON A LICENSED ELECTRICAL CONTRACTORS LETTER HEAD, SHOWING THE DATE OF THE TEST, CONTROLLER/PUMP LOCATION, AND TEST RESULTS. EACH CONTROLLER/PUMP SHALL BE SO GROUNDED AND TESTED. EACH COMPONENT MUST HAVE ITS OWN SEPARATE GROUNDING GRID, UNLESS THEY ARE SITTING SIDE BY SIDE, IN WHICH CASE UP TO TWO CONTROLLERS CAN SHARE A COMMON GROUNDING GRID.

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LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAYATING TRENCHES.

STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO ENSURE 100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.

SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURBED ROADWAYS AND BUILDING FOUNDATIONS. ROTORS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS, 12" FROM BUILDING FOUNDATIONS, AND 36" FROM UNCURBED ROADWAYS.

SHRUB HEADS SHALL BE INSTALLED ON 3/4" SCH 40 PVC RISERS. THE RISERS SHALL BE SET AT A MINIMUM OF 18" OFF SIDEWALKS, ROADWAY CURBING, BUILDING FOUNDATIONS, AND/OR ANY OTHER HARDSCAPED AREAS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 4" BELOW MAINTAINED HEIGHT OF PLANTS AND SHALL BE INSTALLED A MINIMUM OF 6" WITHIN PLANTED MASSES TO BE LESS VISIBLE AND OFFER PROTECTION. PAINT ALL SHRUB RISERS WITH FLAT BLACK OR FOREST GREEN PAINT, UNLESS IRRIGATION SYSTEM WILL UTILIZE REUSE WATER; IN THIS CASE THE RISERS SHALL BE PURPLE PVC AND SHALL NOT BE PAINTED.

LOCATE VALVES PRIOR TO EXCAVATION. ENSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC. AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER - ONLY IN SHRUB BEDS. NEVER INSTALL IN SPORT FIELD AREAS.

<u>VALYES</u>

SEQUENCE ALL VALVES SO THAT THE FARTHEST VALVE FROM THE P.O.C. OPERATES FIRST AND THE CLOSEST TO THE P.O.C. OPERATES LAST. THE CLOSEST VALVE TO THE P.O.C. SHOULD BE THE LAST VALVE IN THE PROGRAMMED SEQUENCE.

ADJUST THE FLOW CONTROL ON EACH RCV TO ENGURE SHUT OFF IN 10 SECONDS AFTER DEACTIVATION BY THE IRRIGATION CONTROLLER.

USING AN ELECTRIC BRANDING IRON, BRAND THE VALVE I.D. LETTERNUMBER ON THE LID OF EACH VALVE BOX. THIS BRAND MUST BE 2"-3" TALL AND EASILY LEGIBLE.

EQUIPMENT

ALL POP-UP HEADS AND SHRUB RISERS SHALL BE PRESSURE COMPENSATING. ALL POP-UP HEADS SHALL BE MOUNTED ON FLEX-TYPE SWING JOINTS. ALL ROTORS SHALL BE INSTALLED WITH PYC TRIPLE SWING JOINTS UNLESS OTHERWISE DETAILED.

ALL SPRINKLER EQUIPMENT, NOT OTHERWISE DETAILED OR SPECIFIED ON THESE PLANS, SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, AND ACCORDING TO LOCAL AND STATE LAWS.

TRENCHING

EXCAVATE STRAIGHT AND VERTICAL TRENCHES WITH SMOOTH, FLAT OR SLOPING BOTTOMS.
TRENCH WIDTH AND DEPTH SHOULD BE SUFFICIENT TO ALLOW FOR THE PROPER VERTICAL
AND HORIZONTAL SEPARATION BETWEEN PIPING AS SHOWN IN THE PIPE INSTALLATION DETAIL
ON THE DETAIL SHEET.

PROTECT EXISTING LANDSCAPED AREAS. REMOVE AND REPLANT ANY DAMAGED PLANT MATERIAL UPON JOB COMPLETION. THE REPLACEMENT MATERIAL SHALL BE OF THE SAME GENUS AND SPECIES, AND OF THE SAME SIZE AS THE MATERIAL IT IS REPLACING. THE FINAL DETERMINATION AS TO WHAT NEEDS TO BE REPLACED AND THE ACCEPTABILITY OF THE REPLACEMENT MATERIAL SHALL BE SOLELY UP TO THE OWNER OR OWNERS REPRESENTATIVE.

INSTALLATION

SOLVENT WELD PIPE: CUT ALL PIPE SQUARE AND DEBURR CLEAN PIPE AND FITTINGS OF FOREIGN MATERIAL; THEN APPLY A SMALL AMOUNT OF PRIMER WHILE ENSURING THAT ANY EXCESS IS WIPED OFF IMMEDIATELY. PRIMER SHOULD NOT PUDDLE OR DRIP FROM PIPE OR FITTINGS. NEXT APPLY A THIN COAT OF PVC CEMENT; FIRST APPLY A THIN LAYER TO THE PIPE, NEXT A THIN LAYER INSIDE THE FITTING, AND FINALLY ANOTHER VERY THIN LAYER ON THE PIPE. INSERT THE PIPE INTO THE FITTING. INSURE THAT THE PIPE IS INSERTED TO THE BOTTOM OF THE FITTING, THEN TURN THE PIPE A 1/4 TURN AND HOLD FOR 10 SECONDS. MAKE SURE THAT THE PIPE DOESN'T RECEDE FROM THE FITTING. IF THE PIPE ISN'T AT THE BOTTOM OF THE FITTING UPON COMPLETION, THE GLUE JOINT IS UNACCEPTABLE AND MUST BE DISCARDED.

PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO THE MANUFACTURER'S SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.

GASKETED PIPE: WITH PIPE IN THE TRENCH, CUT PIPE SQUARE, DEBURR, AND PLACE BEVELED EDGE ON MALE PORTION OF PIPE, IF NOT USING A PIECE WITH A FACTORY BEVEL. CLEAN PIPE AND FITTINGS OF FOREIGN MATERIAL; THEN APPLY A SMALL AMOUNT OF PIPE GREASE TO THE RUBBER GASKET ON THE FEMALE END. FULLY INSERT THE MALE END OF THE PIPE INTO THE BELL END OF ADJACENT PIPE UNTIL THE BEVEL IS FULLY SEATED INTO THE BELL. RESTRAIN PIPE AS REQUIRED.

ACK FILL

THE BACK FILL 6" BELOW, 6" ABOVE, AND AROUND ALL PIPING SHALL BE OF CLEAN SAND AND ANYTHING BEYOND THAT IN THE TRENCH CAN BE OF NATIVE MATERIAL BUT NOTHING LARGER THAN 2" IN DIAMETER.

MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE:

24" MINIMUM FOR 3/4"-2 1/2" PVC WITH A 30" MINIMUM AT VEHICULAR CROSSINGS;

30" MINIMUM FOR 3" & 4" PVC WITH A 36" MINIMUM AT VEHICULAR CROSSINGS.

36" MINIMUM FOR 6" PVC WITH A 36" MINIMUM AT VEHICULAR CROSSINGS;

LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE:

18" MINIMUM FOR 3/4"-3" PYC WITH A 30" MINIMUM AT VEHICULAR CROSSINGS;

24" MINIMUM FOR 4" PYC AND ABOYE WITH A 30" MINIMUM AT VEHICULAR CROSSINGS.

CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS, PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION OF 2' ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90'S, TEES, 45'S, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.

FLUSHING

PRIOR TO THE PLACEMENT OF VALVES, FLUSH ALL MAINLINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER

PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LATERAL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER

USE SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.

<u>tegting</u>

SOIL: AT A MINIMUM OF 2 LOCATIONS ON THE SITE, SOIL TESTS FOR INFILTRATION AND TEXTURE SHALL BE PERFORMED ACCORDING TO THE USDA SOIL QUALITY TEST KIT GUIDE. THE TESTS SHALL BE DOCUMENTED IN A USDA SOIL WORKSHEET. (ALL OF THE ABOVE IS AVAILABLE AT HTTP://SOILS.USDA.GOV/SQI/ASSESSMENT/ TEST_KIT.HTML) THE COMPLETED WORKSHEET SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE FOR REVIEW/APPROVAL. DO NOT PROCEED WITHOUT WRITTEN DIRECTION FROM THE OWNER/OWNERS REPRESENTATIVE.

MAINLINE: REMOVE ALL REMOTE CONTROL VALVES AND CAP USING A THREADED CAP ON SCH 80 NIPPLE. FILL MAINLINE WITH WATER AND PRESSURIZE THE SYSTEM TO 60 PSI. MONITOR THE SYSTEM PRESSURE AT TWO GAUGE LOCATIONS; THE GAUGE LOCATIONS MUST BE AT OPPOSITE ENDS OF THE MAINLINE. WITH THE SAME RESPECTIVE PRESSURES, MONITOR THE GAUGES FOR TWO HOURS. THERE CAN BE NO LOSS IN PRESSURE AT EITHER GAUGE FOR SOLVENT-WELDED PIPE. FOR HOPE PIPE, SEE HOPE NOTES. FOR GASKETED PIPE, TESTING REQUIRES MEASUREMENT OF THE WATER PUMPED INTO THE MAINLINE SYSTEM, USING A HYDROSTATIC PUMP, TO MAINTAIN 160 PSI - THIS WATER VOLUME SHALL BE NO MORE THAN THE RESULT OF THE FOLLOWING FORMULA:

L=(ND√P)/7400

WHERE L=ALLOWABLE LEAKAGE IN GALLONS PER HOUR N=NUMBER OF JOINTS IN PIPE TESTED D=NOMINAL DIAMETER OF PIPE (IN INCHES)

P=AVERAGE TEST PRESSURE (IN PSI)

IF THESE PARAMETERS ARE EXCEEDED, LOCATE THE PROBLEM; REPAIR IT; WAIT 24 HOURS
AND RETRY THE TEST. THIS PROCEDURE MUST BE FOLLOWED UNTIL THE MAINLINE PASSES THE

LATERAL LINES: THE LATERAL LINES MUST BE FULLY FILLED TO OPERATIONAL PRESSURE AND VISUALLY CHECKED FOR LEAKS. ANY LEAKS DETECTED MUST BE REPAIRED.

OPERATIONAL TESTING -ONCE THE MAINLINE AND LATERAL LINES HAVE PASSED THEIR RESPECTIVE TESTS, AND THE SYSTEM IS COMPLETELY OPERATIONAL, A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM IS REQUIRED. THE IRRIGATION CONTRACTOR MUST DEMONSTRATE TO THE OWNER, OR HIS/HER REPRESENTATIVE, THAT PROPER COVERAGE IS OBTAINED AND THE SYSTEM WORKS AUTOMATICALLY FROM THE CONTROLLER. THIS DEMONSTRATION REQUIRES EACH ZONE TO BE TURNED ON, IN THE PROPER SEQUENCE AS SHOWN ON THE PLANS, FROM THE CONTROLLER. EACH ZONE WILL BE INSPECTED FOR PROPER COVERAGE AND FUNCTION. THE DETERMINATION OF PROPER COVERAGE AND FUNCTION IS AT THE SOLE DISCRETION OF THE OWNER OR OWNER'S REPRESENTATIVE.

UPON COMPLETION OF THE OPERATIONAL TEST, RUN EACH ZONE UNTIL WATER BEGINS TO PUDDLE OR RUN OFF. THIS WILL ALLOW YOU TO DETERMINE THE NUMBER OF IRRIGATION START TIMES NECESSARY TO MEET THE WEEKLY EYAPOTRANSPIRATION REQUIREMENTS OF THE PLANTING MATERIAL IN EACH ZONE. IN FINE SANDY SOILS, IT IS POSSIBLE NO PUDDLING WILL OCCUR. IF THIS IS EXPERIENCED, THEN THEORETICAL CALCULATIONS FOR RUN TIMES WILL BE REQUIRED FOR CONTROLLER PROGRAMMING.

<u>SUBMITTALS</u>

PRE-CONSTRUCTION: THE CONTRACTOR MUST SUBMIT FOR WRITTEN APPROVAL, PRIOR TO INSTALLATION, FIVE (5) COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.

AFTER PROJECT COMPLETION:
AS A CONDITION OF FINAL ACCEPTANCE, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE

OWNER WITH:

1. IRRIGATIONS AS-BUILTS - SHALL BE PROVIDED UTILIZING A SUB-FOOT GLOBAL POSITIONING SYSTEM (GPS) TO ACCURATELY LOCATE ALL MAINLINES, SLEEVES, REMOTE CONTROL VALVES, GATE VALVES, INDEPENDENT WIRE RUNS, WIRE SPLICE BOXES, CONTROLLERS, HIGH VOLTAGE SUPPLY SOURCES/CONDUIT PATH, CONTROL MECHANISMS, SENSORS, WELLS AND WATER SOURCE CONNECTIONS IN FLORIDA EAST STATE PLANE, NAD 63, AND CORS 96 FORMAT. THE DATA COLLECTED SHALL BE IN POINT FORMAT AND INCLUDE AN ID FOR EACH DATA POINT WITH MANUFACTURER, TYPE, SIZE, AND DEPTH. ALL MAINLINE AND INDEPENDENT RUNS OF WIRE SHALL BE LOCATED EVERY 30 FOR STRAIGHT RUNS AND AT EVERY CHANGE OF DIRECTION. SLEEVES WILL BE LOCATED AT END POINTS AND EVERY 20 OF LENGTH. ALL UNDERGROUND ITEMS SHALL INCLUDE DEPTH IN INCH FORMAT. THESE POINTS ONCE COLLECTED SHALL BE IMPORTED INTO AN AUTOCAD DWG GEO-REFERENCED BASE FILE TO BE LABELED ACCORDINGLY. THE COMPLETED AS-BUILT SHALL BE A GEO-REFERENCED DWF FILE AND DELIVERED TO THE OWNER ON A COMPACT DISK (CD).

2. CONTROLLER CHARTS - UPON COMPLETION OF "AS-BUILT" PREPARE CONTROLLER CHARTS; ONE PER CONTROLLER. INDICATE ON EACH CHART THE AREA CONTROLLED BY A REMOTE CONTROL VALVE (USING A DIFFERENT COLOR FOR EACH ZONE). THIS CHART SHALL BE REDUCED TO A SIZE THAT WILL FIT INSIDE OF THE CONTROLLER DOOR. THE REDUCTION SHALL BE HERMETICALLY SEALED INSIDE TWO 2ML PIECES OF CLEAR PLASTIC.

3. GROUNDING CERTIFICATION - PROVIDE GROUND CERTIFICATION RESULTS FOR EACH CONTROLLER AND PUMP PANEL GROUNDING GRID INSTALLED. THIS MUST BE ON A LICENSED ELECTRICIAN LETTER HEAD INDICATING LOCATION TESTED (USING IR PLAN SYMBOLS), DATE, TIME, TEST METHOD, AND TESTING RESULTS.

INSPECTIONS AND COORDINATION MEETINGS REQUIRED - CONTRACTOR IS REQUIRED TO SCHEDULE, PERFORM, AND ATTEND THE FOLLOWING, AND DEMONSTRATE TO THE OWNER AND/OR OWNERS REPRESENTATIVE TO THEIR SATISFACTION, AS FOLLOWS:

PRE-CONSTRUCTION MEETING - DESIGNER AND CONTRACTOR TO REVIEW ENTIRE INSTALL PROCESS AND SCHEDULE WITH OWNER/GENERAL CONTRACTOR.

MAINLINE INSTALLATION INSPECTION(S) - ALL MAINLINE MUST BE INSPECTED FOR PROPER PIPE, FITTINGS, DEPTH OF COVERAGE, BACKFILL. AND INSTALLATION METHOD MAINLINE PRESSURE TEST - ALL MAINLINE SHALL BE PRESSURE TESTED ACCORDING TO THIS DESIGNS REQUIREMENTS
FLOW METER CALIBRATION - ALL FLOW METERS MUST BE CALIBRATED, PROVIDE CERTIFIED

CALIBRATION REPORT FOR ALL FLOW METERS.

USDA SOIL QUALITY TESTS FOR INFILTRATION/TEXTURE

USDA SOIL QUALITY TESTS FOR INFILTRATION/TEXTURE COVERAGE AND OPERATIONAL TEST FINAL INSPECTION

PUNCH LIST INSPECTION

FINAL ACCEPTANCE

FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED.

- 1. ALL ABOVE INSPECTIONS ARE COMPLETED, DOCUMENTED, AND APPROVED BY OWNER.
 2. COMPLETION AND ACCEPTANCE OF 'AS-BUILT' DRAWINGS.
- 3. ACCEPTANCE OF REQUIRED CONTROLLER CHARTS AND PLACEMENT INSIDE OF CONTROLLERS.
- 4. ALL OTHER SUBMITTALS HAVE BE MADE TO THE SATISFACTION OF THE OWNER.

GUARANTEE: THE IRRIGATION SYSTEM SHALL BE GUARANTEED FOR A MINIMUM OF ONE CALENDAR YEAR FROM THE TIME OF FINAL ACCEPTANCE.

MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES

1. EVERY IRRIGATION ZONE SHOULD BE CHECKED MONTHLY AND WRITTEN REPORTS
GENERATED DESCRIBING THE DATE(S) EACH ZONE WAS INSPECTED, PROBLEMS IDENTIFIED,
DATE PROBLEMS REPAIRED, AND A LIST OF MATERIALS USED IN THE REPAIR. AT MINIMUM,
THESE INSPECTIONS SHOULD INCLUDE THE FOLLOWING TASKS:

- A. TURN ON EACH ZONE FROM THE CONTROLLER TO VERIFY AUTOMATIC OPERATION.

 B. CHECK SCHEDULES TO ENSURE THEY ARE APPROPRIATE FOR THE SEASON, PLANT AND SOIL TYPE, AND IRRIGATION METHOD. CONSULT AN I.A. CERTIFIED AUDITOR FOR METHODS USED IN DETERMINING PROPER IRRIGATION SCHEDULING REQUIREMENTS.
- C. CHECK REMOTE CONTROL VALVE TO ENGURE PROPER OPERATION.

 D. CHECK SETTING ON PRESSURE REGULATOR TO VERIFY PROPER SETTING, IF PRESENT.
- E. CHECK FLOW CONTROL AND ADJUST AS NEEDED; ENSURE VALVE CLOSURE WITHIN 10-15 SECONDS AFTER DEACTIVATION BY CONTROLLER.
- F. CHECK FOR LEAKS MAINLINE, LATERAL LINES, VALVES, HEADS, ETC. G. CHECK ALL HEADS AS FOLLOWS:
- PROPER SET HEIGHT (TOP OF SPRINKLER IS 1" BELOW MOW HEIGHT)
 YERIFY HEAD POP-UP HEIGHT 6" IN TURF, 12" IN GROUND COYER, AND
- POP-UP ON RISER IN SHRUB BEDS.

 CHECK WIPER SEAL FOR LEAKS IF LEAKING, CLEAN HEAD AND RE-INSPECT.

 IF STILL LEAKING, REPLACE HEAD WITH THE APPROPRIATE HEAD WITH

 PRESSURE REGULATOR AND BUILT-IN CHECK VALVE.
- ALL NOZZLES CHECKED FOR PROPER PATTERN, CLOGGING, LEAKS, CORRECT MAKE 4

 MODEL ETC. BERLACE AS NEEDED.
- MODEL, ETC. REPLACE AS NEEDED.

 CHECK FOR PROPER ALIGNMENT PERFECTLY VERTICAL; COVERAGE AREA IS CORRECT; MINIMIZE OVER SPRAY ONTO HARDSCAPES.
- VERIFY THE POP-UP RISER RETRACTS AFTER OPERATION. IF NOT, REPAIR/REPLACE AS NEEDED.

1. CHECK CONTROLLER/C.C.U. GROUNDS FOR RESISTANCE (10 OHMS OR LESS) ONCE PER YEAR. SUBMIT WRITTEN REPORTS.

- 2. CHECK RAIN SHUT-OFF DEVICE MONTHLY TO ENSURE IT FUNCTIONS PROPERLY.
- 3. INSPECT ALL FILTERS MONTHLY AND CLEAN/REPAIR/REPLACE AS NEEDED.

PUMP STATION OPERATIONS MANUAL

- 4. INSPECT BACK-FLOW DEVICES BY UTILIZING A PROPERLY LICENSED BACK-FLOW INSPECTOR, THIS SHOULD BE DONE ANNUALLY, AT MINIMUM.
- 5. INSPECT ALL VALVE BOXES TO ENSURE THEY ARE IN GOOD CONDITION, LIDS ARE IN PLACE AND LOCKED.
 6. CHECK PUMP STATIONS FOR PROPER OPERATION, PRESSURES, FILTRATION, SETTINGS, ETC. REFER TO
- 7. CHECK AND CLEAN INTAKE SCREENS ON ALL SUCTION LINES QUARTERLY, AT MINIMUM. CLEAN AND/OR REPAIR, AS NEEDED.
- 8. WINTERIZE, IF APPLICABLE, AS WEATHER IN YOUR AREA DICTATES. FOLLOW MANUFACTURER RECOMMENDATIONS AND BLOW OUT ALL LINES AND EQUIPMENT USING COMPRESSED AIR. PERFORM SEASONAL STARTUP OF SYSTEM AS PER MANUFACTURER RECOMMENDATIONS.
- 9. CONDUCT ADDITIONAL INSPECTIONS, MAINTENANCE TASKS, ETC. THAT ARE PARTICULAR FOR YOUR SITE.



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