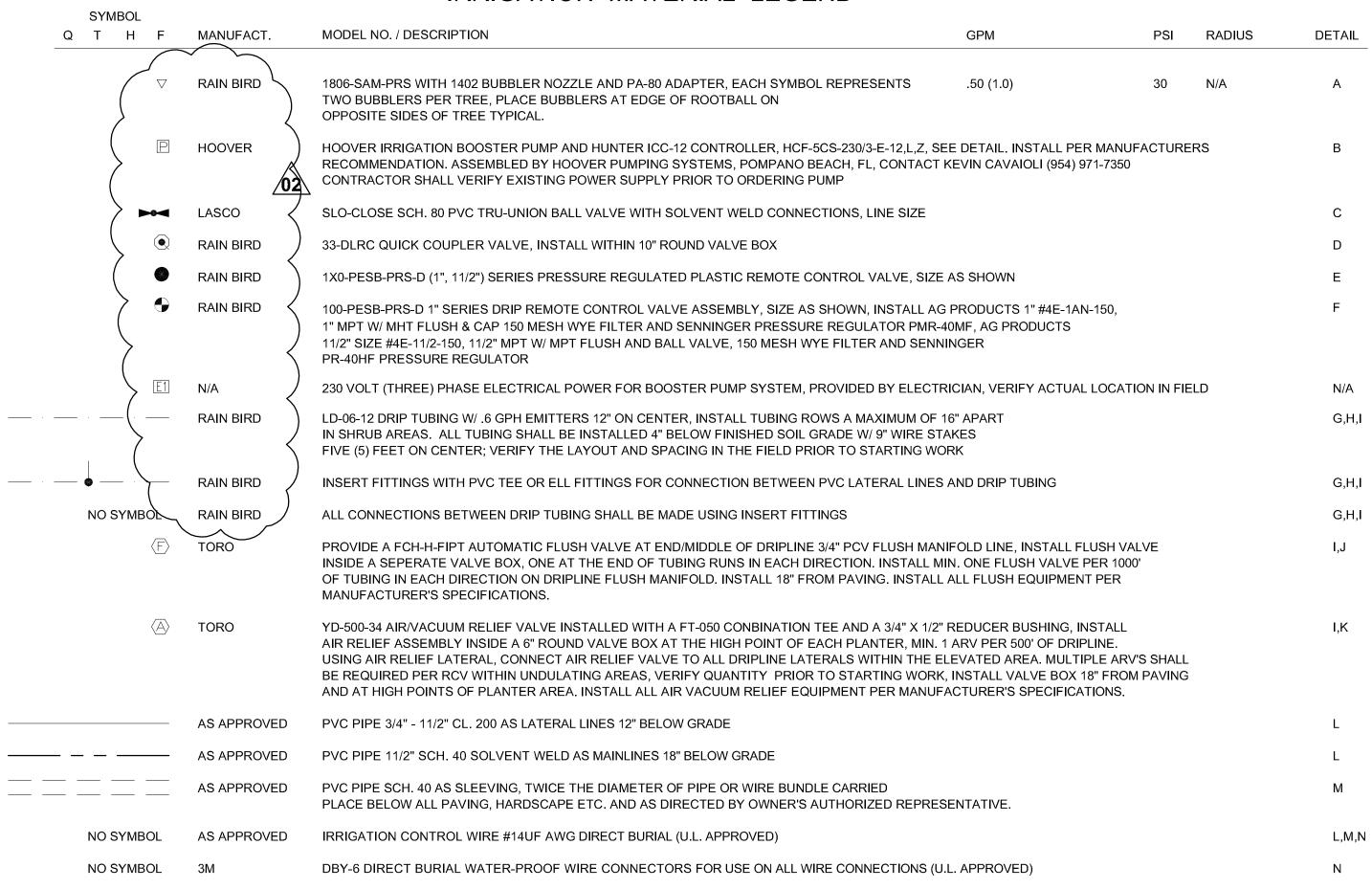
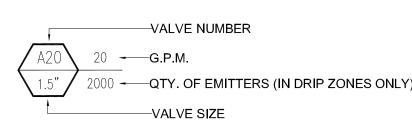
IRRIGATION NOTES

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

		WATER PR	ESSURE C	CALCU	LATI	ONS		
WATER ME	TER NUMBER	1	WATER MET					
HYDRAULIC	GRADE LINE (FT)		WATER MET	9				
ELEVATION	DIFFERENCE (FT)		STATIC PRE	0				
REMOTE CO	ONTROL VALVE #	7	REMOTE CO	11/2)"			
R.C.V. DEM	AND (GPM)	18	TOTAL DEMA	18				
HIGHEST HE	EAD SERVED (FT)	28	STATIC PRE	AT HIG	HEST HEAD			
SIZE	DESCRIPTION			FLOW	#	PSI LOSS		
	SERVICE LINE (50 FT OF	TYPE K COP	PER)		1	0.0	PSI	
	WATER METER (DISC T	YPE)			2	0.0	PSI	
	BACKFLOW PREVENTE	R (R/P TYPE)			3	0.0	PSI	
	FILTRATION (WYE FILTE	R)			4	0.0	PSI	
	PRESSURE REGULATOR	R (WILKINS 500	OHLR)		5	0.0	PSI	
	BFD ASSEMBLY PIPING	ELLS)		6	0.0	PSI		
	MASTER CONTROL VAL	,		7	0.0	PSI		
	FLOW SENSOR				8	0.0	PSI	
2"	ISOLATION VALVES (BA	LL TYPE)		18	9	1.0	PSI	
11/2"	400 FEET OF MAINLINE	: SCH. 40 PVC		18	10	3.6	PSI	
11/2"	20 FEET OF MAINLINE:	R	18	11	0.3	PSI		
11/2"	5 - 90 DEGREE ELBOWS	3		18	12	0.5	PSI	
1"	REMOTE CONTROL VAL	VE		18	13	3.0	PSI	
10%	LATERAL LINE LOSS			N/A	14	3.0	PSI	
20%	FITTING LOSS (IN ADDIT	ON TO ELBOV	VS SHOWN)	N/A	15	0.8	PSI	
19	ELEVATION CHANGE (P	.O.C. TO HIGH	EST HEAD)	N/A	16	8.2	PSI	
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #16)						20.4	PSI	
PRESSURE REQUIRED AT HEAD						30.0	PSI	
TOTAL PRESSURE REQUIRED (SUM OF #17 AND #18)						50.4	PSI	
STATIC WATER PRESSURE (FROM ABOVE)					20	0.0	PSI	
RESIDUAL F			21	-50.4	PSI			
SET PRV OR MCV AT (#19 PLUS 10 PSI)						N/A	PSI	
PRESSURE	BOOST, IF REQUIRED (SE	T TO ACHIEVE	10 PSI RESI	DUAL)	23	60.4	PSI	

IRRIGATION MATERIAL LEGEND





Controller : A				IRRIGATION CONTROLLER RUN TIMES								
PLANT TYPE / SPRINKLER TYPE		YPE	Eto	AKc	PR RATE	IE		RUN TIME		QUANTITY	RUN TIME	
Days P	Per Week:	6		5.8					(HOURS)			(HOURS)
Shrub and	d Ground C	Covers:										
Drip				5.80	0.40	0.49	0.90		0.20		7	1.43
Trees:												
Bubbler Heads			5.80	0.80	3.00	0.90		0.07		2	0.13	
			CYCLES	PER DAY:	1		TOT	TAL NUM	MBER OF STATIONS: 9		9	
									TOTAL RUN TIME IN HOURS			



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305.593.2530 LANDSCAPE ARCHITECT

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305 499 5010 786.664.6500 CONSULTANT: **NUTTING ENGINEERS** 1310 NEPTUNE DRIVE **BOYTON BEACH, FL 33246** 561.736.4900

561.737.9975 CONSULTANT: WAVEGUIDE 8270 WOODLAND CENTER BLVD. TAMPA, FLORIDA 33614 813-739-8998

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REVISION 02 - AUGUST 14 2009

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Issue (#) Issue Date / For 7.24.07 SCHEMATIC DESIGN APPROVAL 11.12.07 SCHEMATIC DESIGN APPROVAL 02.22.08 SCHEMATIC DESIGN APPROVAL

10.21.08 PROGRESS DESIGN DEVELOPMENT 11.26.08 100 % DESIGN DEVELOPMENT 02.25.09 FOUNDATION PERMIT

03.28.08 SCHEMATIC DESIGN APPROVAL

03.18.09 50% CONSTRUCTION DOCUMENTS 05.18.09 100% CONSTRUCTION DOCUMENTS

PROJECT NO.: 2441

SHEET INDEX

N.T.S.

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