# **LOCATION MAP** SCALE: NTS

# IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>PS</u>
1401 1402 1404 1408	TREE BUBBLER RAIN BIRD 1806-SAM-PRS-1400 FLOOD BUBBLER 6.0" POPUP WITH CHECK VALVE AND PRESSURE REGULATOR	30

### SYMBOL MANUFACTURER/MODEL/DESCRIPTION

NETAFIM LVCZS8010075-HF
PRE-ASSEMBLED CONTROL ZONE KIT, WITH I"
SERIES 80 CONTROL VALVE, 3/4" DISC FILTER,
HIGH FLOW PRESSURE REGULATOR 4.5GPM TO
17.6GPM.

## PIPE TRANSITION POINT ABOVE GRADE PIPE TRANSITION POINT FROM PVC RISER TO DRIP

# # # #	AREA TO RECEIVE DRIPLINE
# # # # # #	NETAFIM TLCV-09-12
# # # #	TECHLINE PRESSURE COMPE

NETAFIM TLCV-09-12 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.9 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN.

### SYMBOL MANUFACTURER/MODEL/DESCRIPTION

## REMOTE VALVE RAIN BIRD PEB; SOLENOID VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. SHUT-OFF VALVE

## SCH. 80 PVC BALL VALVE BY SPEARS. MASTER VALVE I" PLASTIC REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.

## SIZE AS NOTED. BACKFLOW DEVICE I" FEBCO 850 DOUBLE CHECK VALVE.

С	CONTROLLER
	RAIN BIRD ESPME. MODULAR OUTDOOR CONTROLLER. I 20V POWER.

佗	RAIN AND FREEZE SENSOR RAIN BIRD WR2-RFC WIRELESS COMBO, INCLUDES RECEIVER AND I RAIN/FREEZE SENSOR
	TRANSMITTER.

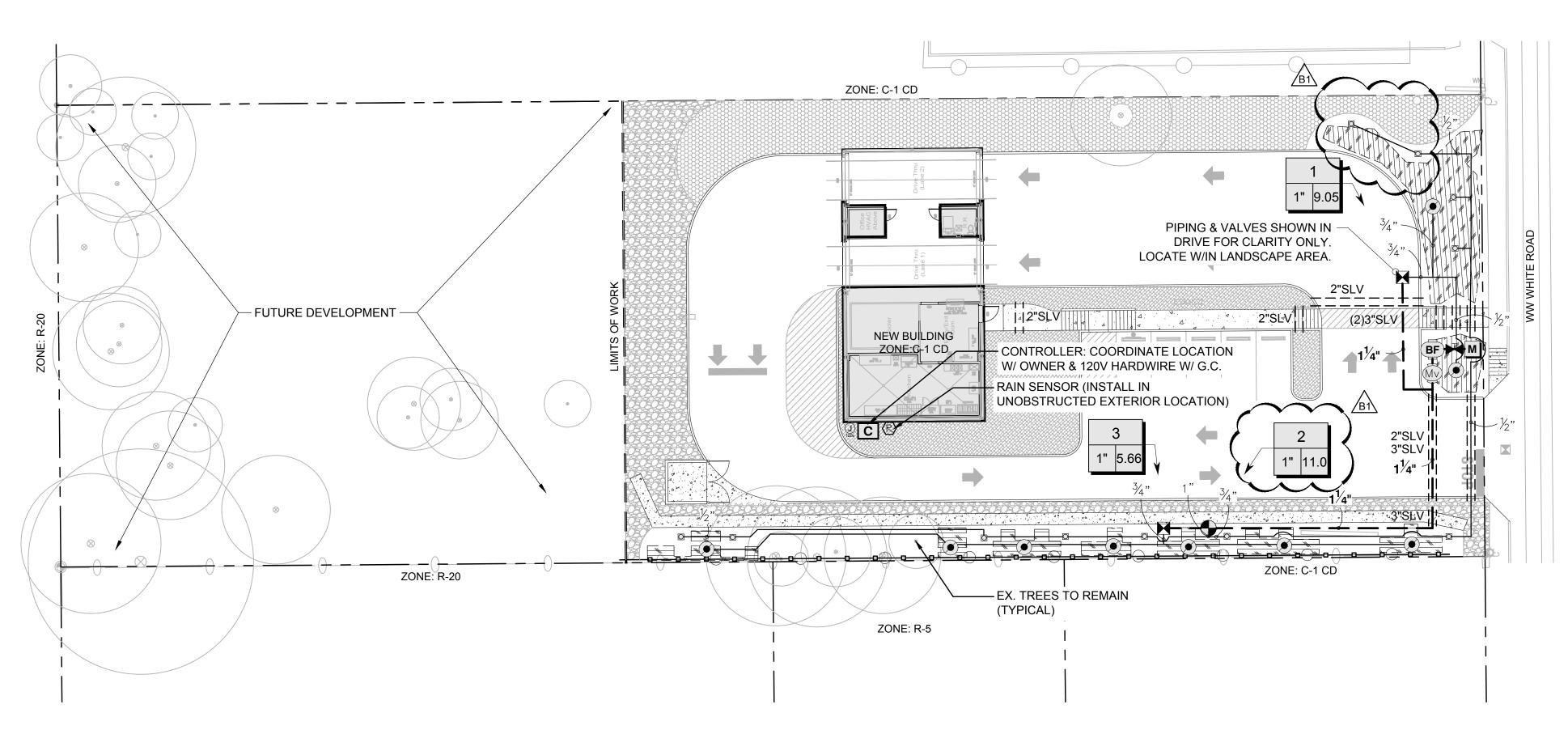
## WATER METER 3/4" IRRIGATION ONLY WATER METER, REF. CIVIL

 IRRIGATION LATERAL LINE: PVC CLASS 200 SDR
LATERALS 3/4" \$ LARGER LABELED W/ ALL OTHER
BEING 1/2" CLASS 315 PVC.

# - - - IRRIGATION MAINLINE: PVC SCHEDULE 40

PIPE SLEEVE: PVC SCHEDULE 4	0
Valve Callout	

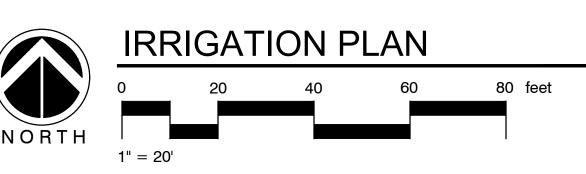
Ī	# •	Valve	Nun
#,"	#•	——— Valve	Flov
		Valve	Size



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P.O.C. NUMBER: 0   Water Source Information:	IRRIGATION ONLY WATER METER, REF. CIVIL
FLOW AVAILABLE Water Meter Sıze: Flow Avaılable:	3/4"     .22 gpm
PRESSURE AVAILABLE Static Pressure at POC: Elevation Change: Service Line Size: Length of Service Line: Pressure Available:	82.00 psi 5.00 ft 3/4" 20.00 ft 76.00 psi
DESIGN ANALYSIS Maximum Station Flow: Flow Available at POC: Residual Flow Available:	.00 gpm     .22 gpm   0.22 gpm
Critical Station:  Design Pressure: Friction Loss: Fittings Loss: Elevation Loss: Loss through Valve: Pressure Req. at Critical Station: Loss for Fittings:	1 30.00 psi 0.72 psi 0.07 psi 0.00 psi 10.27 psi 41.07 psi 0.03 psi
Loss for Main Line: Loss for POC to Valve Elevation: Loss for Backflow: Loss for Master Valve: Loss for Water Meter: Critical Station Pressure at POC: Pressure Available:	0.32 psi 0.00 psi 6.46 psi 1.78 psi 1.31 psi 50.97 psi 76.00 psi

PIPE SIZING REQUIREMENTS: (Based on Class 200 PVC laterals								
except 1/2" late	except 1/2" laterals to be Class 3   5 PVC)							
O.I gpm	to	4.0 gpm	1/2"	(Class 3   5)				
4.1 gpm	to	8.0 gpm	3/4"					
8.1 gpm	to	13.0 gpm	"					
13.1 gpm	to	23.0 gpm	I - I /4"					
23.1 gpm	to	32.0 gpm	I - I/2"					
32.1 gpm	to	53.0 gpm	2"					
53.1 gpm	to	74.0 gpm	2-1/2"					

NOTE: SIZE LATERAL PIPE SUCH THAT NO TWO SPRAY HEADS WITHIN THE SAME ZONE MAY VARY BY MORE THAN 10% IN PSI. RULE-OF-THUMB PIPE SIZING IS NOT ACCEPTABLE NOR PERMITTED IN RUNS LONGER THAN 100'.



VALVE	SCHEDULE						
NUMBER I 2 3	MODEL NETAFIM LVCZS80   0075-HF REMOTE VALVE NETAFIM LVCZS80   0075-HF	<u>SIZE</u>  "  "	TYPE AREA FOR DRIPLINE BUBBLER AREA FOR DRIPLINE	GPM 9.05 11.00 5.66	PSI 41.07 38.52 38.72	PSI @ POC 50.97 50.17 46.69	PRECIP 0.96 in/h 3.40 in/h 0.97 in/h

WATER	RING SCHEDULE						
NUMBER I 2 3	MODEL NETAFIM LVCZS80 I 0075-HF REMOTE VALVE NETAFIM LVCZS80 I 0075-HF	TYPE AREA FOR DRIPLINE BUBBLER AREA FOR DRIPLINE TOTALS:	PRECIP 0.96 in/h 3.40 in/h 0.97 in/h	IN./WEEK I I	MIN./WEEK 63 18 63 144	GAL./WEEK 569.8 198 356.3 1,124	GAL./DAY 284.9 99 178.1 562.1

IT WILL BE NECESSARY TO DIVIDE RUN TIMES INTO 2 TO 3 CYCLES TO MINIMIZE RUNOFF. A TYPICAL SCHEDULE WOULD ALLOW WATERING TO OCCUR TWO DAYS PER WEEK. TOTAL WATERING TIME WOULD BE DIVIDED BY THE NUMBER OF WATERING DAYS. THIS SCHEDULE IS DESIGNED FOR SUMMER WATER USAGE AND ESTABLISHMENT OF NEW PLANTING. CONTRACTOR IS TO PROGRAM RUN TIMES TO ADJUST THROUGHOUT THE YEAR AS NEEDED IN ORDER TO MAINTAIN PLANTS IN A HEALTHY CONDITION . IT IS ENCOURAGED TO USE THE CYCLE SOAK FEATURE ON THE IRRIGATION CONTROLLER TO REDUCE WATER RUNOFF. CONTRACTOR IS TO ADJUST RUN TIMES AS NOT TO ALLOW FOR IRRIGATION RUNOFF OR OVER-SATURATION OF THE SOIL. SHOULD THE MUNICIPALITY DESIGNATE A HIGHER STAGE OF WATER RESTRICTIONS, IT WILL BE NECESSARY FOR THE CONTRACTOR TO ADJUST THE RUN TIMES ACCORDINGLY. IT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN PLANT MATERIAL IN A HEALTHY CONDITION DURING THIS TIME, PROVIDE SUPPLEMENTAL WATERING, SECURE VARIANCES AS NEEDED, AND PAY ANY PENALTY FEES ACCRUED.

# AUGUST 2020

CITY OF SAN ANTONIO	
DEVELOPMENT SERVICES	
1901 S. ALAMO	
P.O. BOX 839966	

# RE: THE FRIENDLY SPOT

SAN ANTONIO, TX 78283

# TO WHOM IT MAY CONCERN:

I, JASON S. LOCHTE, A LICENSED IRRIGATOR IN THE STATE OF TEXAS DO CERTIFY THAT THE IRRIGATION PLAN SUBMITTED CONFORMS TO THE IRRIGATION DESIGN AND EQUIPMENT STANDARDS SET OUT IN 35-510 (J) AND 35-511(C)(6) OF THE CITY OF SAN ANTONIO UNIFIED DEVELOPMENT CODE AND ALSO COMPLIES WITH THE REQUIREMENTS OF CHAPTER 344 §§ 344.60, 344.61, \$ 344.62 OF THE TEXAS ADMINISTRATIVE CODE.

IF FURTHER INFORMATION IS NEEDED, PLEASE FEEL FREE TO CONTACT ME AT (210) 821-6570. SINCERELY,

JASON S. LOCHTE TEXAS LICENSED IRRIGATOR NO. 1 1893

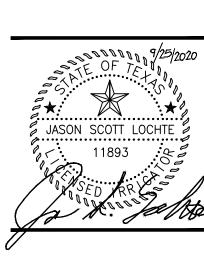
A LETTER FROM A LICENSED IRRIGATOR (INSTALLER) SHALL BE REQUIRED CERTIFYING THAT THE IRRIGATION SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE CERTIFIED LANDSCAPE PLAN. THE IRRIGATION LETTER REQUIRED FOR THE CERTIFICATE OF OCCUPANCY CAN BE LEFT WITH THE TEST AND MEASURE (T&M) REPORT IN A WEATHERPROOF, WATER TIGHT BAG WHICH WILL BE COLLECTED UPON REQUEST BY THE PLUMBING INSPECTOR. THE LETTER MAY ALSO BE SUBMITTED AT THE DEPARTMENT OF DEVELOPMENT SERVICES BUILDING WHEN APPLYING FOR THE CERTIFICATE OF OCCUPANCY FOR NEW CONSTRUCTION.

NOTE: THE SITE INFORMATION SHOWN ON THIS PLAN IS FROM A SITE PLAN PROVIDED BY THE OWNER, ARCHITECT, OR CIVIL ENGINEERING COMPANY HIRED BY THE OWNER. VERIFY ALL DIMENSIONS WITH THE DIMENSIONAL CONTROL PLAN AND COORDINATE WITH ALL OTHER CONTRACT DOCUMENTS ASSOCIATED WITH THIS PROJECT.



RELEASED FOR PERMIT RELEASED FOR CONSTRUCTION

IN PRELIMINARY REVIEW



Job #:20-050 Date: 08/27/2020 Drawn By: JL/BL

IRRIG