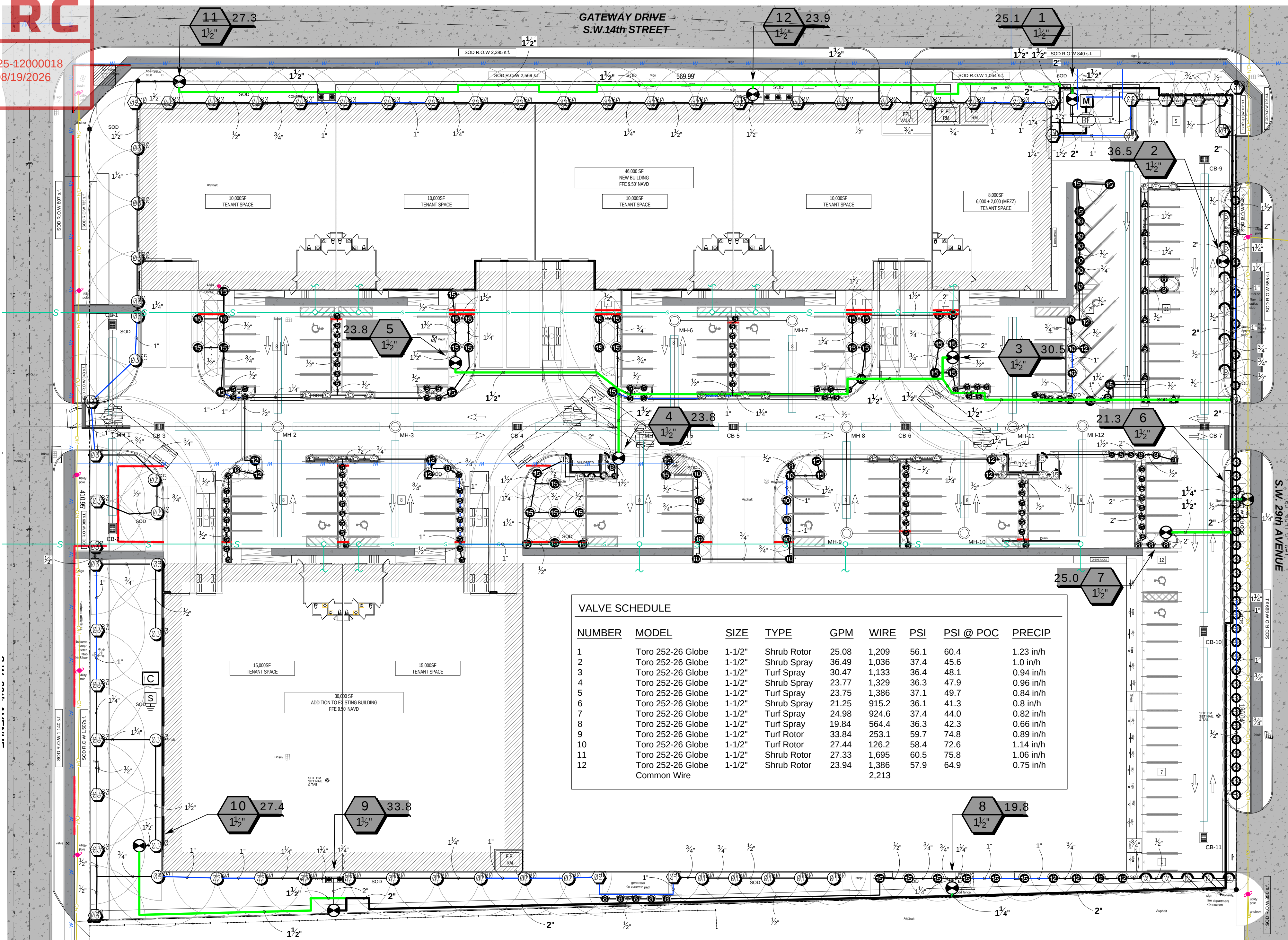




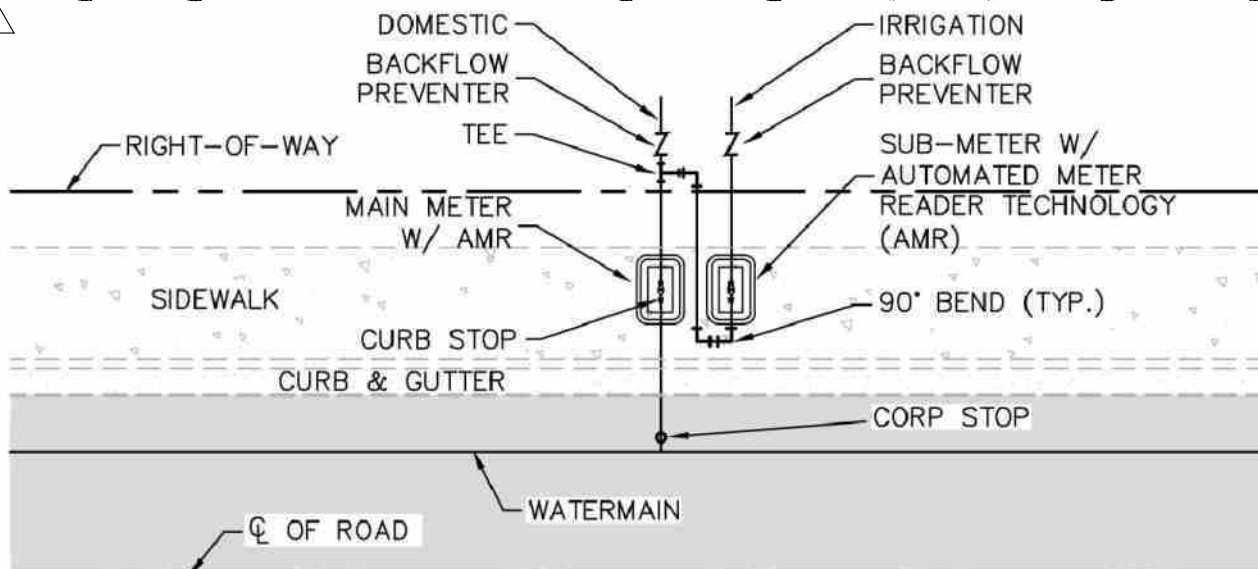
VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Toro 252-26 Globe	1-1/2"	Shrub Rotor	25.08	1,209	56.1	60.4	1.23 in/h
2	Toro 252-26 Globe	1-1/2"	Shrub Spray	36.49	1,036	37.4	45.6	1.0 in/h
3	Toro 252-26 Globe	1-1/2"	Turf Spray	30.47	1,133	36.4	48.1	0.94 in/h
4	Toro 252-26 Globe	1-1/2"	Shrub Spray	23.77	1,329	36.3	47.9	0.96 in/h
5	Toro 252-26 Globe	1-1/2"	Turf Spray	23.75	1,386	37.1	49.7	0.84 in/h
6	Toro 252-26 Globe	1-1/2"	Shrub Spray	21.25	915.2	36.1	41.3	0.8 in/h
7	Toro 252-26 Globe	1-1/2"	Turf Spray	24.98	924.6	37.4	44.0	0.82 in/h
8	Toro 252-26 Globe	1-1/2"	Turf Spray	19.84	564.4	36.3	42.3	0.66 in/h
9	Toro 252-26 Globe	1-1/2"	Turf Rotor	33.84	253.1	59.7	74.8	0.89 in/h
10	Toro 252-26 Globe	1-1/2"	Turf Rotor	27.44	126.2	58.4	72.6	1.14 in/h
11	Toro 252-26 Globe	1-1/2"	Shrub Rotor	27.33	1,695	60.5	75.8	1.06 in/h
12	Toro 252-26 Globe	1-1/2"	Shrub Rotor	23.94	1,386	57.9	64.9	0.75 in/h
	Common Wire				2,213			

IRRIGATION PLAN

SCALE: 0 8 16 24 feet

1/8" = 1'-0"



NOTES:

- MUST USE RECTANGULAR BOX TO ACCOMMODATE BOTH THE SUB-METER AND SHUT-OFF VALVE.
- MUST HAVE SHUT-OFF VALVE ON INLET SIDE BEFORE METER.
- MUST PLACE SUB-METER BOX WITHIN 5 FEET OF MAIN METER, EASILY ACCESSIBLE TO METER READER.
- MUST CALL METER SHOP AT 305-673-7681 WHEN INSTALLATION IS COMPLETED FOR FINAL INSPECTION IN ORDER TO OBTAIN SEWER CREDIT.
- SUB-METER CANNOT BE LARGER THAN THE DOMESTIC METER WATER SERVICE LINE.

SUB-METER INSTALLATION DETAIL

SCALE: N.T.S.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
Q T H TT TQ F	Toro 570Z-6LP-PC 5 Series Shrub Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	98	30
Q T H TT TQ F	Toro 570Z-6LP-PC 8" radius Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	18	30
Q T H TT TQ F	Toro 570Z-6LP-PC 10" radius Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	11	30
Q T H TT TQ F	Toro 570Z-6LP-PC 12" radius Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	11	30
Q T H TT TQ F	Toro 570Z-6LP-PC 15" radius Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	41	30
Q T H TT TQ F	Toro 570Z-6LP-PC ADJ Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	21	30
Q T H TT TQ F	Toro 570Z-6LP-PC Turf Strip Spray Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	9	30

Q T H TT TQ F	Toro 570Z-06P-COM-PC 5 Series Shrub Spray, 6" Pop-Up, with a Zero Flush Seal, and Check-O-Matic Check Valve. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	2	30
Q T H TT TQ F	Toro 570Z-06P-COM-PC 8 Series Shrub Spray, 6" Pop-Up, with a Zero Flush Seal, and Check-O-Matic Check Valve. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	31	30
Q T H TT TQ F	Toro 570Z-06P-COM-PC 10 Series Shrub Spray, 6" Pop-Up, with a Zero Flush Seal, and Check-O-Matic Check Valve. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	1	30
Q T H TT TQ F	Toro 570Z-06P-COM-PC 12 Series Shrub Spray, 6" Pop-Up, with a Zero Flush Seal, and Check-O-Matic Check Valve. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	6	30
Q T H TT TQ F	Toro 570Z-06P-COM-PC 15 Series Shrub Spray, 6" Pop-Up, with a Zero Flush Seal, and Check-O-Matic Check Valve. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	10	30
Q T H TT TQ F	Toro 570Z-06P-COM-PC ADJ Shrub Spray, 6" Pop-Up, with a Zero Flush Seal, and Check-O-Matic Check Valve. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	2	30
Q T H TT TQ F	Toro 570Z-06P-COM-PC Shrub Strip Spray Shrub Spray, 6" Pop-Up, with a Zero Flush Seal, and Check-O-Matic Check Valve. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	22	30

SYMBOL

ARC

MANUFACTURER/MODEL/DESCRIPTION

QTY	PSI	GPM	RADIUS
5	50	2.16	17'

Toro 300-00 01
3.0" turf popup multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.

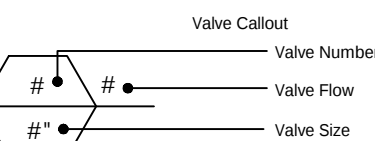
ARC	Toro 300-00 02 3.0" turf popup multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	11	50	0.85	23'
ARC	Toro 300-00 03 3.0" turf popup multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	11	50	1.61	29'
ARC	Toro 300-12 01 12.0" popup shrub multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	7	50	1.8	17'
ARC	Toro 300-12 02 12.0" popup shrub multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	24	50	0.85	23'
ARC	Toro 300-12 03 12.0" popup shrub multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	13	50	1.61	29'

SYMBOL

MANUFACTURER/MODEL/DESCRIPTION

QTY

ARC	Toro 252-26 Globe 1-1/2" Electric, 1", 1-1/2", and 2" In-Line Plastic Remote Control Valve. Includes Flow Control. Globe Body Configuration. Debris-Resistant Valve.	12
BF	Febco 765 1-1/2" Pressure Vacuum Breaker, brass with ball valve SOV. Install 12in. above highest downstream outlet and the highest point in the downstream piping.	1
C	Toro EVO-040D with (01) EMOD-12 16 Station Outdoor Controller. Includes one 12-station Expansion Module. Ideal for residential and light-commercial applications.	1
S	Toro Rain Sensor TWRS Wireless Rain Sensor Transmitter and Receiver. Mount Sensor Transmitter as noted or approved, mount Sensor Receiver next to Irrigation Controller as noted or approved, use controller power or optional transformer. Adjustable rain shut-off point.	1
M	Water Meter 1-1/2"	1
	Irrigation Lateral Line: PVC Schedule 40 1/2"	1,547 lf
	Irrigation Lateral Line: PVC Schedule 40 3/4"	719.9 lf
	Irrigation Lateral Line: PVC Schedule 40 1"	833.2 lf
	Irrigation Lateral Line: PVC Schedule 40 1 1/4"	1,023 lf
	Irrigation Lateral Line: PVC Schedule 40 1 1/2"	554.7 lf
	Irrigation Lateral Line: PVC Schedule 40 2"	175.7 lf
	Irrigation Mainline: PVC Schedule 40 1 1/4"	12.0 lf
	Irrigation Mainline: PVC Schedule 40 1 1/2"	1,158 lf
	Irrigation Mainline: PVC Schedule 40 2"	1,042 lf
	Pipe Sleeve: PVC Schedule 40	820.5 lf



GENERAL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, AND APPENDIX "F" OF THE FLORIDA BUILDING CODE.

IRRIGATION DESIGN BASED ON "PLANTING PLAN". CONTRACTOR SHALL REFER TO THIS PLAN TO COORDINATE SPRINKLER LOCATIONS AND PIPE ROUTING WITH NEW AND EXISTING PLANT LOCATIONS.

THIS PLAN SHALL BE USED AS A GUIDE ONLY. IRRIGATION SHALL BE INSTALLED TO MATCH ON SITE CONDITIONS AND TO OVERCOME THE INHERENT INACCURACIES THAT RESULT WHEN DESIGNING FROM BASE PLANS.

THIS IRRIGATION HAS BEEN DESIGNED AS A TYPICAL BLOCK VALVE TYPE USING TORO SPRINKLERS, IN-LINE VALVES AND CONTROL SYSTEM. A RAIN SENSOR SHALL BE INSTALLED TO CONSERVE WATER.

IRRIGATION SHALL BE INSTALLED AND MAINTAINED TO MINIMIZE UNDESIRABLE OVERTHROW ONTO PAVEMENT, SIDEWALKS, AND BUILDINGS.

CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH SITE CONDITIONS, AND SHALL REFER TO THE PLANS FOR ADDITIONAL INFORMATION.

TO ENSURE PROPER OPERATION, SOURCE SIZE, VALVE SIZES, ZONE CAPACITIES, AND SPRINKLER, PIPE AND WIRE SIZES, AND INSTALLATION NOTES AND DETAILS SHALL BE FOLLOWED AS SHOWN.

CONTRACTOR IS TO PROVIDE AN AS-BUILT DRAWING OF THE IRRIGATION SYSTEM TO THE OWNER AND LANDSCAPE ARCHITECT.

PIPING PIPE ROUTING IS SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS.

PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, SECTION "F" OF THE FLORIDA BUILDING CODE, AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE ROUTED UNDER HARDSCAPED AREAS SHALL BE SLEEVED IN SCH 40 PVC. EACH SLEEVE SHALL BE (1) BURIED TO A MINIMUM DEPTH OF 24"; (2) W/ PIPE SIZES LARGER THAN CARRIER PIPE; AND (3) EXTENDED 3' BEYOND HARDSCAPED AREA ON EACH END. CONTRACTOR SHALL REFER TO LOCATION OF EXISTING SLEEVES.

PIPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT

FRICITION LOSS IN THE PIPING NETWORK.

PIPE SHALL BE INSTALLED AT SUFFICIENT DEPTH BELOW GROUND TO PROTECT IT FROM HAZARD SUCH AS VEHICULAR TRAFFIC OR ROUTINE OCCURRENCES WHICH OCCUR IN THE NORMAL USE AND MAINTENANCE OF THE PROPERTY. DEPTHS OF COVER SHALL MEET OR EXCEED SCS CODE 430-DD. REFER TO THE APPLICABLE DETAIL FOR ADDITIONAL INFORMATION.

BACKFILL SHALL BE OF SUITABLE MATERIAL, FREE OF ROCKS, STONES, AND OTHER DEBRIS THAT WOULD DAMAGE IRRIGATION SYSTEM COMPONENTS.

A GATE VALVE SHALL BE INSTALLED FOR ISOLATION. THIS VALVE SHALL BE TO LINE SIZE AND INSTALLED IN A VALVE BOX. POROUS MATERIAL SHALL BE INSTALLED PER BOX TO PROMOTE DRAINAGE.

SPRINKLERS SPRINKLER LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR LANDSCAPING, FENCES, SITE LIGHTING, PREVAILING WIND, MOUNDING, ETC., TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. A PRIME OBJECTIVE SHALL BE TO ELIMINATE OVERTHROW ONTO PAVEMENT, SIDEWALKS, AND THE RESIDENCE.

CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH SITE CONDITIONS, AND SHALL REFER TO THE PLANS FOR ADDITIONAL INFORMATION.

TO ENSURE PROPER OPERATION, SOURCE SIZE, VALVE SIZES, ZONE CAPACITIES, AND SPRINKLER, PIPE AND WIRE SIZES, AND INSTALLATION NOTES AND DETAILS SHALL BE FOLLOWED AS SHOWN.

CONTRACTOR IS TO PROVIDE AN AS-BUILT DRAWING OF THE IRRIGATION SYSTEM TO THE OWNER AND LANDSCAPE ARCHITECT.

PIPING PIPE ROUTING IS SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS.

PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, SECTION "F" OF THE FLORIDA BUILDING CODE, AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE ROUTED UNDER HARDSCAPED AREAS SHALL BE SLEEVED IN SCH 40 PVC. EACH SLEEVE SHALL BE (1) BURIED TO A MINIMUM DEPTH OF 24"; (2) W/ PIPE SIZES LARGER THAN CARRIER PIPE; AND (3) EXTENDED 3' BEYOND HARDSCAPED AREA ON EACH END. CONTRACTOR SHALL REFER TO LOCATION OF EXISTING SLEEVES.

PIPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT

NOTE:

Irrigation system shall provide 100% coverage with 50% overlap.

Reused water is not going to be used.

NOTES:

- THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
- GUARD POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY THE DEPARTMENT.
- THE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, APPROVED BY THE DEPARTMENT.
- PIPING SHALL BE SCHEDULE 40 BRASS OR TYPE K COPPER PIPE WITH THREADED FITTINGS IN ACCORDANCE WITH WASH CONSTRUCTION SPECIFICATIONS FOR DOMESTIC WATER MAINS. PVC PIPING IS NOT ACCEPTED BY WASH.
- THE DEPARTMENT SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE VACUUM BREAKER ASSEMBLY.
- SEE SPECIFICATIONS AND CONTACT DEPARTMENT FOR CURRENTLY APPROVED TYPES OF BACKFLOW PREVENTION ASSEMBLIES AND PRESSURE VACUUM BREAKERS (SEE WS 4.18 SHEET 4 OF 4)

IRRIGATION NOTES

SCALE: NTS

MANUFACTURER'S INSTRUCTIONS. PROPER GROUNDING EQUIPMENT SHALL BE PROVIDED.

CONTROLLER LOCATION SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. A 110 VAC ELECTRIC SOURCE IS REQUIRED.

CONTROL LINES FROM AUTOMATIC CONTROLLER TO IN-LINE AUTOMATIC VALVES SHALL BE #14 AWG DIRECT BURIAL UF TYPE WHICH SHALL BE (1) INSTALLED IN ACCORDANCE WITH LOCAL CODES; (2) INSTALLED IN SCH 40 PVC WIRE CONDUIT; (3) BURIED TO A MINIMUM DEPTH OF 15"; (4) COLORED CODED TO FACILITATE TROUBLESHOOTING; AND (5) SPLICED MOSTLY AT VALVE LOCATIONS. SPLICES SHALL BE MADE WATERPROOF USING APPROVED METHODS. SPARE WIRES SHALL BE ROUTED FROM THE CONTROLLER IN ALL DIRECTIONS TO THE FARTHEST VALVES CONTROLLED.

AN INDIVIDUAL CONTROL WIRE SHALL BE ROUTED TO EACH VALVE AND VALVES WHICH OPERATE SIMULTANEOUSLY SHALL BE TIED TOGETHER AT THE CONTROLLER.

AUTOMATIC VALVE LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A VALVE BOX. A MINIMUM OF ONE CUBIC FOOT OF GRAVEL SHALL BE PROVIDED PER BOX TO PROMOTE DRAINAGE.

THE RAIN SENSOR SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

TIMING AND PRECIPITATION TIMING OF EACH STATION SHALL BE SET IN THE FIELD TO MATCH LOCAL REQUIREMENTS. REFER TO ZONE SUMMARY CHART FOR RECOMMENDED RUN TIMES TO APPLY 1.0 INCHES/WEK.

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REV#	DESCRIPTION	DATE
#1	City Comments	06-02-25
#2	City Comments	10-03-25

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SEAL

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11329 NW 55 Lane
Doral, FL 331178
954 240 3305
PEF 68402

DATE: 10-03-2025

SCALE: AS NOTED

DRAWN BY: ALD

DRAWING #
IRRIGATION
PLAN

IR-01