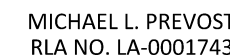


NOTE: SEE LEGEND ON DETAIL SHEET

H	4"/4"/2"
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PROJECT NAME AND LOCATION



DEFINITION OF CATEGORISATION

SCALE: AS SHOWN

SHEET NUMBER

- 1) SOME PIPE LINES ARE DRAWN OFF SET FOR CLARITY. INSTALL ALL IRRIGATION LINES IN LANDSCAPED AREAS.
- 2) REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREE TRUNKS AND ROOTS TO APPROPRIATE LOCATIONS.
- 3) ADJUST ALL NOZZLES TO REDUCE OVERTHROW ON PAVING & WALLS. THROTTLE ALL IRRIGATION CONTROLLER VALVES AS REQUIRED TO PREVENT FOGGING. SET CONTROLLER RUN TIMES TO MATCH PLANT WATER NEEDS.
- 4) INSTALL RISERS 18" FROM WALLS OR BUILDINGS, AND 24" FROM PAVED SURFACES. PAINT ALL RISERS AND SUPPORTS FLAT BLACK.
- 5) INSTALL POP-UP HEADS 18" FROM WALLS, 6" FROM WALKS, DECKS AND CURBS, 6 FEET FROM CURBLESS ROADS, AND 30" FROM THE END OF PARKING SPACES.
- 6) SET TOP OF POP-UP HEAD CAPS 1" ABOVE FINISHED GRADE PRIOR TO SOD OR MULCH INSTALLATION.
- 7) REFER TO UTILITY PLANS PRIOR TO TRENCHING. THE IRRIGATION INSTALLER SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO UTILITIES CAUSED BY THE IRRIGATION WORKING IN THE PROJECT.
- 8) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP.
- 9) ELECTRIC POWER CONNECTION BY THE IRRIGATION CONTROLLER SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THE IRRIGATION INSTALLER TO PROVIDE ELECTRICAL PERMITS AND LICENSED ELECTRICIAN TO CONNECT THE CONTROLLER TO MAIN CONDUIT.
- 10) IRRIGATION WATER CONNECTIONS AND SYSTEM CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL CODES FOR IRRIGATION INSTALLATION AND CONNECTIONS TO THE WATER SUPPLY.
- 11) IRRIGATION INSTALLER TO ACQUIRE ALL PERMITS AND UTILIZE ALL SAFETY PRECAUTIONS REQUIRED TO WORK IN ROW OF ROADWAY.
- 12) THE IRRIGATION SYSTEM SHALL BE DESIGNED TO MEET THE REQUIRED EFFICIENCY OPERATION OF THE IRRIGATION SYSTEM AS DESIGNED. VERIFY THE MINIMUM STATIC WATER PRESSURE IS AVAILABLE AT THE PROJECT SITE PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IF THE MINIMUM STATIC WATER PRESSURE OR WATER VOLUME IS NOT AVAILABLE.
- 13) AT THE END OF PARKING SPACES PLACE HEADS IN LINE WITH PARKING STRIPES OR 2.5 FEET FROM BACK OF CURB. (TYPICAL)
- 14) PRIOR TO STARTING THE WORKS INSPECT THE SITE AND LOCATE ALL EXISTING IRRIGATION PIPES, WIRES AND EQUIPMENT. PROVIDE LABOR AND MATERIALS TO EXISTING IRRIGATION. PROVIDE IRRIGATION "LIFELINE" PIPES AND WIRES TO KEEP ADJACENT IRRIGATION ZONES OPERATIONAL THROUGHOUT THE DRAWN.
- 15) THE IRRIGATION MAINLINE IS DRAWN OFFSET FOR GRAPHIC CLARITY. DO NOT SCALE THE MAINLINE FROM THE DRAWING FOR INSTALLATION. THE IRRIGATION MAINLINE SHALL BE INSTALLED TO AVOID PROPOSED AND EXISTING TREE ROOT ZONES AND UTILITIES.

W. IRRIGATION WATER WELL WITH VFD CONTROLS AND PRESSURE TRANSDUCER
4" WATER WELL WITH 5 HP SUBMERSIBLE MOTOR AND VFD CONTROLS TO
PROVIDE MAXIMUM 50 GPM AT 60 PSI. PROVIDE WELL WATER WITH SUSPENDED
SOLIDS THAT WILL PASS THAT THROUGH SPRAY HEAD NOZZLES AND SORENS.
DEDICATED 208 VOLT, 30 AMP, SINGLE PHASE POWER BY THE PROJECT
ELECTRICAL CONTRACTOR. IRRIGATION INSTALLER TO PROVIDE WELL
CONSTRUCTION AND ELECTRICAL PERMITS FOR WELL EQUIPMENT.

(FS) 2.5" IN LINE FLOW SENSOR IN VALVE BOX ON IRRIGATION MAINLINE. WIRE
SENSOR CABLE BACK TO THE IRRIGATION CONTROLLER SENSOR PORT.
RAINBIRD F5300P, OR EQUAL.
HUNTER FCT-300, OR EQUAL.

(B) IRRIGATION CONTROLLER WITH RAIN SWITCH. NUMBER OF STATIONS
INDICATED ON PLAN. 120 VOLT, 1.0 AMP, ELECTRIC CIRCUIT FROM
NEAREST ELECTRICAL PANEL, BY THE BUILDING CONTRACTOR.
PROVIDE CONTROLLER GROUNDING WITH 15' #6 BARE COPPER WIRE,
5/8" X 6' COPPER CLAD GROUND ROD AND CADDWELD HT11616 WELD KIT.
RAINBIRD ESP-LXME MODULAR SERIES WITH WIRELESS RAIN SWITCH.
HUNTER I-CORE SERIES WITH WIRELESS RAIN CLUCK.

(W) IRRIGATION CONTROL VALVE. PLASTIC BODY WITH FLOW CONTROL +
VALVE ID TAG. MOUNT IN 15" RECTANGULAR VALVE BOX. SIZE INDICATED
ON PLAN. PROVIDE 1/4WAG COPPER CONTROL WIRE TO ALL VALVES.
RAINBIRD PEB PRS VALVE SERIES, OR EQUAL.
HUNTER ICV + ACQU SYNC VALVE SERIES, OR EQUAL.

(A) IRRIGATION CONTROL VALVE TAG. INDICATES VALVE LOCATION, STATION
NUMBER, SIZE AND ZONE FLOW RATE.

(X) IRRIGATION ISOLATION VALVE. SIZE SAME SIZE AS PIPE. MOUNT IN 19"
RECTANGULAR VALVE BOX WITH 8" NDS DRAIN PIPE EXTENSION AS NEEDED.
2.5" & SMALLER - BRONZE THREAD ON TYPE WITH WHEEL HANDLE.

(ZE) P.V.C MAIN LINE PIPE. CLASS 200, PVC. INSTALL 12" DEEP.
2.5" & SMALLER, SOLVENT WELD PVC PIPE AND FITTINGS.

(ZE) P.V.C LATERAL LINE PIPE. INSTALL 12" DEEP.
3/4" AND LARGER, CLASS 200, PVC.
1/2" PIPE SIZE, CLASS 315, PVC.
2.5" & SMALLER, SOLVENT WELD PVC PIPE AND FITTINGS.




(SLV) P.V.C SLEEVE PIPE. CLASS 200, PVC.
SOLVENT WELD PVC PIPE AND FITTINGS.

RAINBIRD 1800 SERIES SPRAY BODIES & ADAPTERS
POLY PIPE AND INSERT FITTING SWING JOINTS
PROVIDE U-SERIES SPRAY NOZZLES PER PLAN
HE-VAN SERIES NOZZLES FOR "Z" SERIES NOZZLE DESIGNATIONS




T ▲ 12" POP-UP SHRUB SPRAY BODY			
R ● X" SHRUB NOZZLE ON PVC RISER			
1/5 0.5 GPM TREE BUBBLER ON FLEX PE PIPE			
LETTER	GPM AT 30 PSI	RADIUS	PATTERN
A	0.92	15'	QUARTER
B	1.30	15'	ONE THIRD
C	1.85	15'	HALF
D	2.48	15'	TWO THIRD
E	2.92	15'	THREE QTR.
F	3.70	15'	FULL
G	0.65	12'	QUARTER
H	0.90	12'	ONE THIRD
J	1.30	12'	HALF
K	1.75	12'	TWO THIRD
L	2.00	12'	THREE QTR.
M	2.60	12'	FULL
N	0.39	10'	QUARTER
P	0.57	10'	ONE THIRD
Q	0.79	10'	HALF
R	1.58	10'	FULL
U	0.61	4' X 15'	END STRIP
U	0.5	4' X 15'	LEFT CORNER STRIP
Ur	0.5	4' X 15'	RIGHT CORNER STRIP
V	1.21	4' X 30'	SIDE STRIP
W	1.2	4' X 30'	CENTER STRIP
Y	0.5	2' X 4'	SQUARE PATTERN
Z	VARIES	10'	12' ADJUSTABLE ARC
Zz	VARIES	12'	12' ADJUSTABLE ARC
Z	VARIES	15'	15' ADJUSTABLE ARC
X	0.5	1'	FLOOD BUBBLER
O	1.0	5'	STREAM BUBBLER
1	0.26	8'	QUARTER
2	0.32	8'	ONE THIRD
3	0.52	8'	HALF
4	1.05	8'	FULL
5	.1	5'	ONE THIRD
6	.2	5'	ONE QUARTER
7	.2	5'	HALF
8	.38	5'	FULL

HUNTER PGP SERIES ROTOR HEADS (6" POP-UP)
POLY PIPE AND INSERT FITTING SWING JOINTS
PROVIDE STANDARD AND LOW ANGLE NOZZLES PER PLAN
6" POP-UP BODY IN TURF




AT 25' SPACING - USE GRAY LOW ANGLE NOZZLES
AT 40 GPM OPERATING PRESSURE

	25' 90 DEGREE	#4LA NOZZLE (1.7 GPM)
	32' 180 DEGREE	#7LA NOZZLE (3.1 GPM)
	38' 360 DEGREE	#10LA NOZZLE (6.5 GPM)

AT 35' SPACING - USE RED STANDARD NOZZLES
AT 40 PSI OPERATING PRESSURE

	35' 90 DEGREE #5 NOZZLE (1.8 GPM)
	38' 180 DEGREE #7 NOZZLE (3.0 GPM)
	46' 360 DEGREE #10 NOZZLE (6.8 GPM)

AT 20' SPACING - USE RED STANDARD PGJ NOZZLES

	20' 90 DEGREE	#1.0 NOZZLE (1.0 GPM)
	20' 180 DEGREE	#2.0 NOZZLE (2.0 GPM)
	20' 360 DEGREE	#4.0 NOZZLE (3.0 GPM)

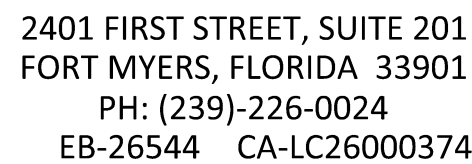
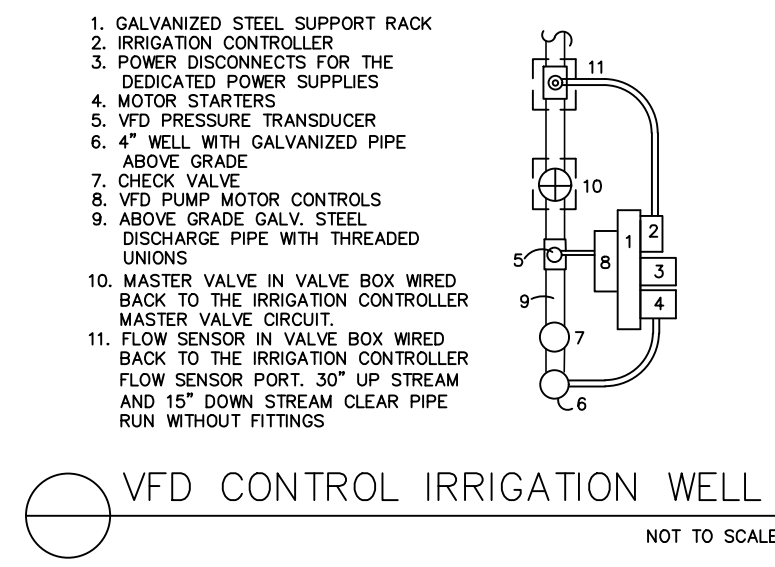
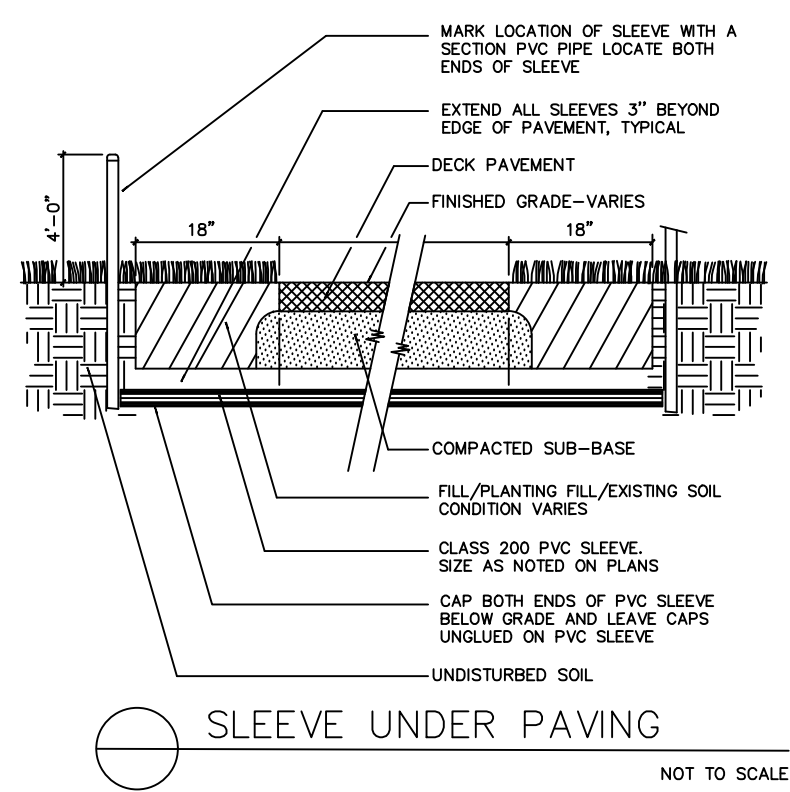
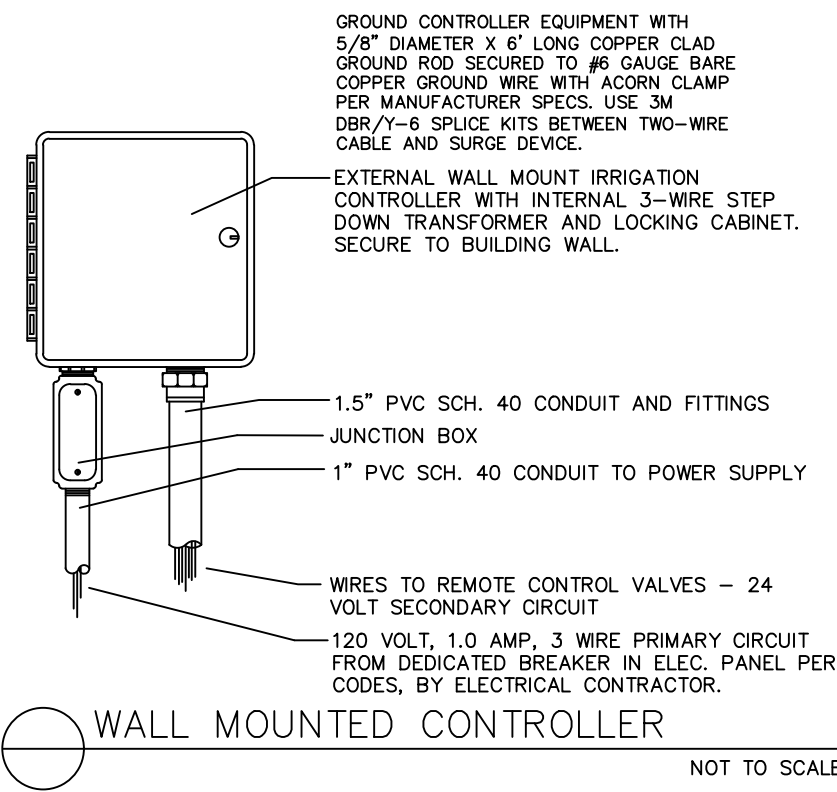
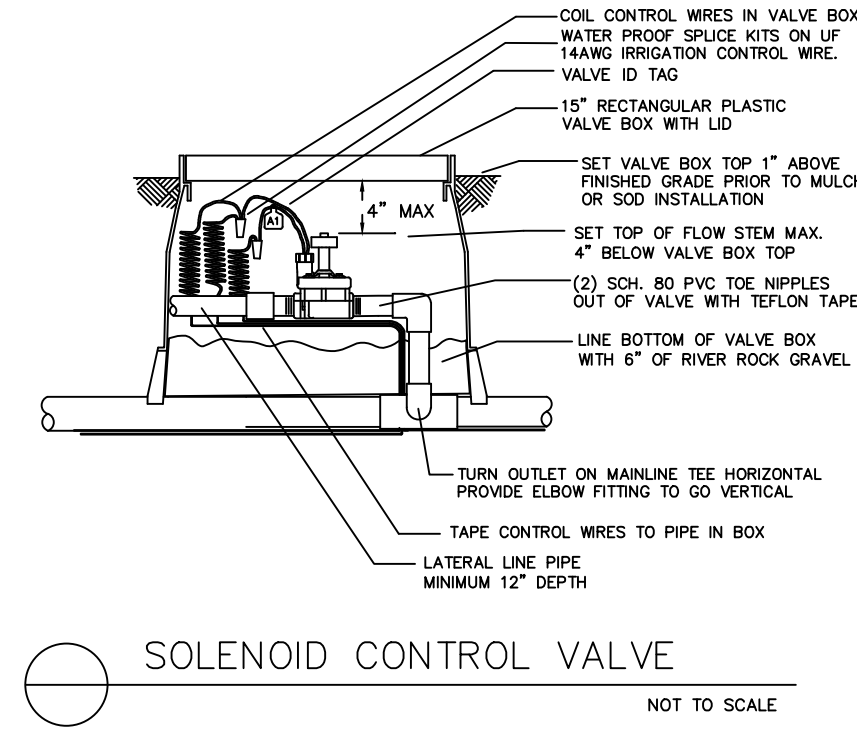
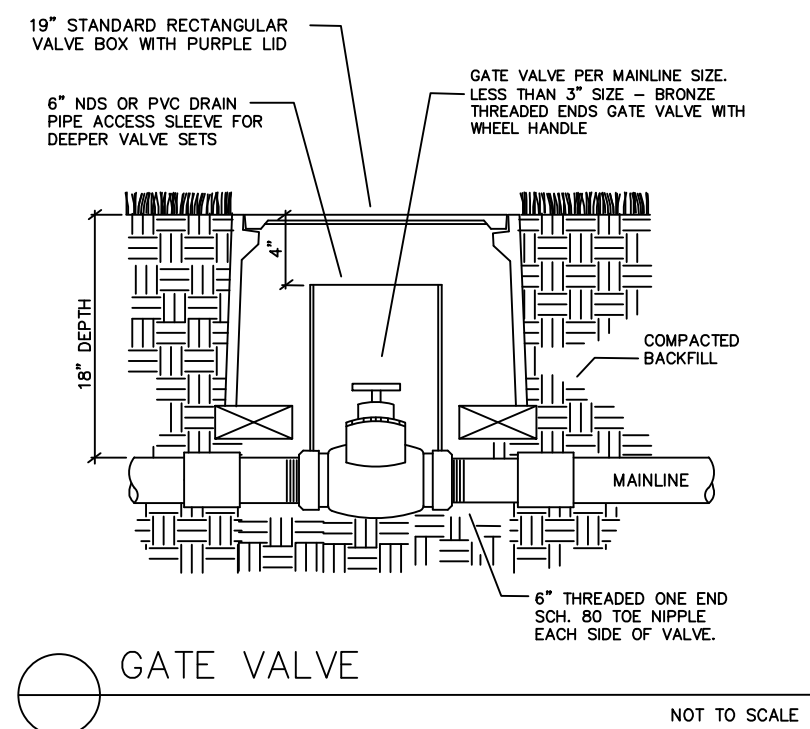
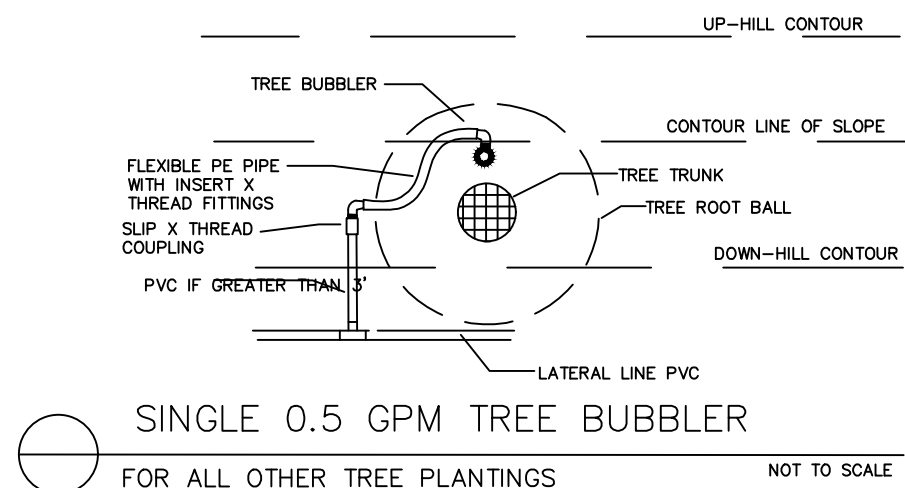
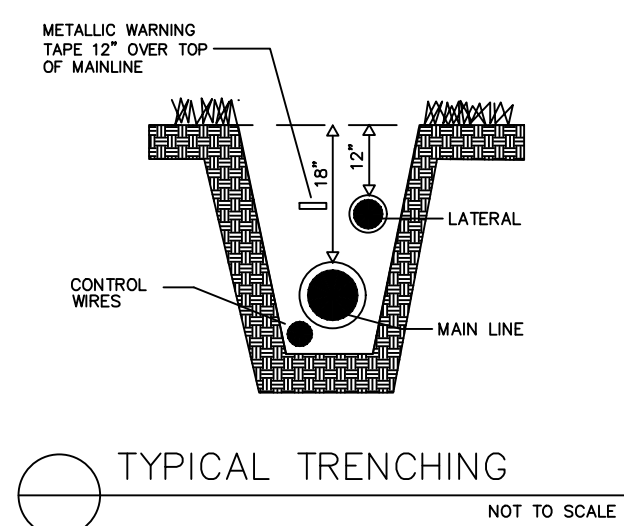
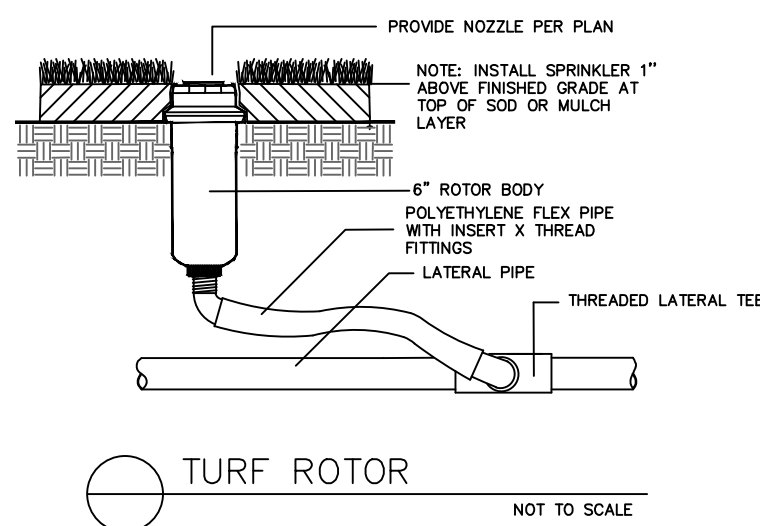
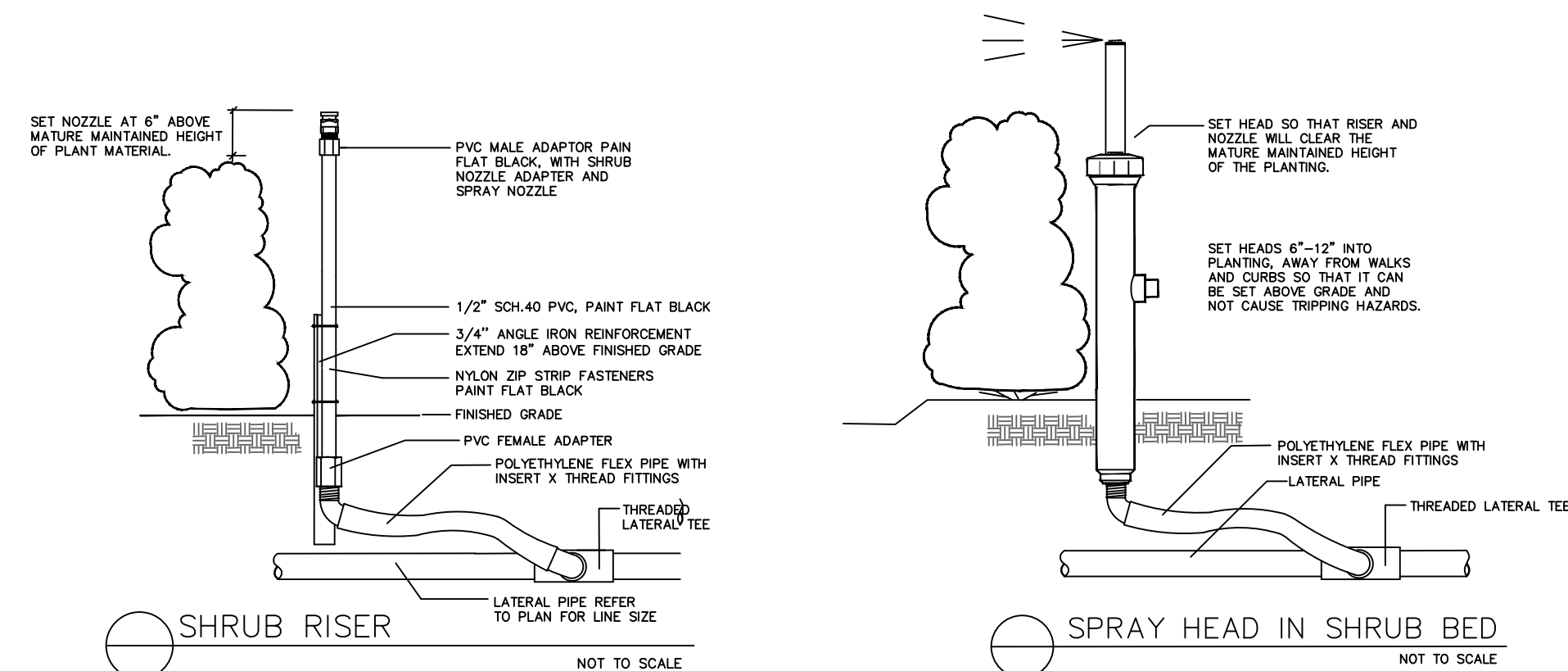
5000-MPR-30 (GREEN) NOZZLE
AT 45 PSI

30' 90 DEGREE HEAD (1.4 GPM)

 30' 180 DEGREE HEAD (3 GPM)
 30' 360 DEGREE HEAD (6 GPM)

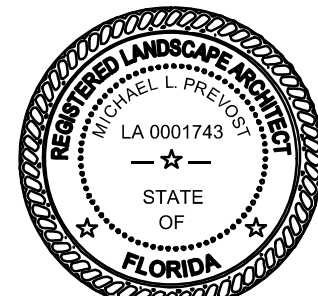


CIRCLE IN ROTOR INDICATES SHRUB APPLICATION
USE 12" POP-UP BODY ADJACENT TO TURF OR
PAVED AREAS
USE SHRUB ROTOR ON RISERS IN CENTER OF BEDS
AND BESIDE WALLS



VILLAGE OF ESTERO
9401 CORKSCREW PALMS CIRCLE
ESTERO, FL 33928

ESTERO RIVER PARK
PHASE 1
VILLAGE OF ESTERO



MICHAEL L. PREVOST
RLA NO. LA-0001743

NO.	REVISION	DATE
R1	PER VILLAGE & SFWMD COMMENTS	04-28-23
R2	PER VILLAGE & LCU COMMENTS	07-17-23

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DATE:	1-16-2023
PROJECT NO.	1433-01
FILE NO.	1433-01 LSP.dwg
SCALE:	AS SHOWN

IRRIGATION LEGENDS, NOTES & DETAILS

SHEET TITLE

IR-02

SHEET NUMBER