

SITE INFORMATION

PROPERTY ADDRESS: SW HWY 484, OCALA, FL 34473
 TOTAL ACREAGE (SITE): 1.50 ACRES
 TOTAL ACREAGE (DISTURBED): +/- 1.80 ACRES
 TAX MAP#: 282336716510111
 ZONE: PUD-B4



A: 413 SPEARS AVENUE
 CHATTANOOGA, TN 37405
 P: 423.521.7622

IRRIGATION SYSTEM DESIGN DATA

PRESSURE :	CRITICAL HEAD:	*CONTRACTOR TO VERIFY AVAILABLE PRESSURE. IF LANDSCAPE ARCHITECT'S PRESSURE IS LESS THAN THE DESIGNED PRESSURE VALUE
ASSUMED STATIC PRESSURE: 50 PSI	LOSS THROUGH METER= 0.8 PSI	
PRESSURE AVAILABLE @ P.O.C. 40 PSI	LOSS THROUGH BACK FLOW= 5 PSI	
	LOSS THROUGH VALVE= 1.5 PSI	
PRESSURE @ CRITICAL HEAD: -27.70 PSI	LOSS THROUGH MAIN LINE= 0 PSI	
	LOSS THROUGH LATERAL= 5 PSI	
OPERATION PRESSURE: 25-45 PSI	TOTAL LOSS= +/- 12.30 PSI	TOTAL AREA TO BE IRRIGATED: +/- 20,100
	PRESSURE AVAILABLE AT C.H. = 7.70 PSI	

ZONE KEY & SCHEDULE

ZONE	WATERING ZONES:	DRIP ZONES:
1	+/-21 GPM	<5 GPM
2	+/-17 GPM	<8 GPM
3	+/-16.50 GPM	
4	+/-16.50 GPM	

CONTRACTOR TO VERIFY WATER SOURCE. IF RECLAIMED WATER IS TO BE USED, CONTRACTOR TO USE PURPLE PIPE AND HEADS AND EMITTERS TO HAVE RECLAIMED WATER MARKINGS AS REQUIRED BY LOCAL AND STATE MUNICIPALITY. SIGN TO BE POSTED AS NON-POTABLE WATER. DO NOT DRINK. CONTRACTOR TO PULL ALL REQUIRED PERMITS AND FOLLOW ALL LOCAL AND STATE CODES AND ORDINANCES.

IRRIGATION KEY

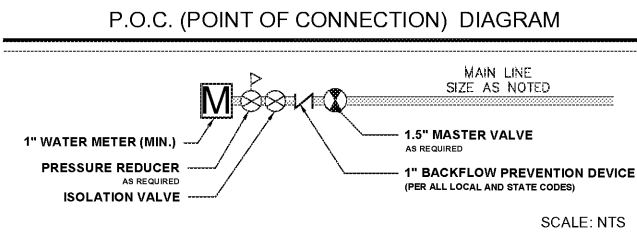
GENERAL		SPRAY ZONES	
	PRO-C CONTROLLER BY HUNTER		90° PATTERN: MP ROTATOR SERIES NOZZLE BY HUNTER OR APPROVED EQUAL (#= 800SR.1000, 2000, 3000, 3500 NOZZLE TYPE)
	WIRELESS RAIN CLIK SENSOR BY HUNTER		180° PATTERN: MP ROTATOR SERIES NOZZLE BY HUNTER OR APPROVED EQUAL (#= 800SR.1000, 2000, 3000, 3500 NOZZLE TYPE)
	1.5" ICV-151 SERIES ELECTRIC VALVE BY HUNTER		270° PATTERN: MP ROTATOR SERIES NOZZLE BY HUNTER OR APPROVED EQUAL (#= 800SR.1000, 2000, 3000, 3500 NOZZLE TYPE)
	1" ICZ-151G SERIES ELECTRIC DRIP VALVE BY HUNTER		360° PATTERN: MP ROTATOR SERIES NOZZLE BY HUNTER OR APPROVED EQUAL (#= 800SR.1000, 2000, 3000, 3500 NOZZLE TYPE)
	MAINLINE PVC SCHEDULE 40 (SIZE AS NOTED)	DRIP ZONES	
	LATERAL LINE PVC SCHEDULE 40 (AS NOTED)		DRIP IRRIGATION **SEE DRIP IRRIGATION MATERIAL)
	SLEEVE AS REQUIRED. CONTRACTOR TO SIZE. SLEEVES TO BE 2x SIZE OF MAIN AND/OR LATERAL LINES.		

NOTE TO CONTRACTOR: PIPING LOCATION SHOWN IS DIAGRAMMATIC ONLY. ALL PIPING HEADS, VALVES, ETC. SHOWN WITHIN PAVED AREAS FOR DESIGN CLARIFICATION. CONTRACTOR TO FIELD LOCATE ALONG CURBS AND LANDSCAPE BEDS OUT OF CONFLICT WITH PLANTINGS AND OTHER UTILITIES.

IRRIGATION MATERIAL MINIMUM ACCEPTABLE STANDARDS

- PIPING:**
- 1) MAINLINE PIPE TO BE PVC SCHEDULE 40
 - 2) ALL SLEEVE PIPE TO BE PVC SCHEDULE 40
 - 3) ALL OTHER PIPE TO CONFORM TO THE FOLLOWING:
 - A) PVC PIPE OVER 1" DIAM. SHALL CONFORM TO ASTM D224, SDR 21, AND CLASS 200.
 - B) PVC PIPE 1" DIAM. & UNDER SHALL CONFORM TO ASTM D2241, SDR 13.5, AND CLASS 315.
 - C) FLEXIBLE POLYETHYLENE (PE) SHALL CONFORM TO ASTM D2239, SDR 11.5, PE23, RATED AT 90 PSI. NATIONAL SANITATION FOUNDATION (NSF) APPROVED.
- VALVES:**
- 1) HUNTER INDUSTRIES:
 - A) SPRAY ZONE VALVES TO BE ICV SERIES ELECTRIC VALVE (PRODUCT #s: ICV-101G, ICV-151G, OR ICV-201G)
 - B) DRIP ZONE VALVES TO BE ICZ VALVE WITH HY100 FILTER SYSTEM (PRODUCT #s: ICZ-151-25 or ICZ-151-40)
- SPRAY IRRIGATION MATERIAL (LAWN/SOD): APPROVED COMPONENTS**
- 1) HUNTER INDUSTRIES
 - A) PRO SPRAY SERIES BODIES (8" RISERS ON ALL BODIES)
 - 1) NOZZLES: MP ROTATOR, MP ROTATOR STRIP, MP ROTATOR SR SERIES
- NOTES:** CONTRACTOR TO LOCATE ALL HEADS FOR 100% HEAD-TO-HEAD COVERAGE.

- DRIP IRRIGATION MATERIAL: APPROVED COMPONENTS**
- 1) TREES AND SHRUBS:
 - A) POINT SOURCE EMITTERS SYSTEM BY HUNTER INDUSTRIES
 - 1) EMITTER SIZES: 0.5 GPH, 1.0 GPH, 2.0 GPH
 - 2) ALL TREES TO HAVE (4) 1.0 GPH EMITTERS. ALL SHRUBS TO HAVE (2) 0.5 GPH EMITTERS.
 - 2) SUPPLY TUBING (1/2" POLYETHYLENE FLEXIBLE TUBING)
 - 3) DISTRIBUTION TUBING (1/2" POLYETHYLENE FLEXIBLE TUBING) (www.hunterindustries.com)
 - 2) PERENNIALS AND GROUND COVER ONLY
 - A) PLD SERIES DRIFLINE SYSTEM BY HUNTER INDUSTRIES
 - 1) DRIFLINE HOSE EMITTER SPACING: 12", 18", OR 24" O.C.
 - 2) SUPPLY TUBING (1/2" POLYETHYLENE FLEXIBLE TUBING)
 - 3) DISTRIBUTION TUBING (1/2" POLYETHYLENE FLEXIBLE TUBING) (www.hunterindustries.com)



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MARION COUNTY NOTES

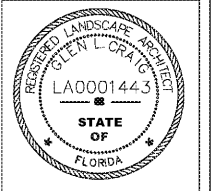
1. UPON COMPLETION OF THE IRRIGATION SYSTEM INSTALLATION AND THE ACCEPTANCE OF THE AS-BUILT DIAGRAM AND OPERATIONAL INFORMATION, A FINAL INSPECTION AND LANDSCAPE IRRIGATION RELEASE SHALL BE SIGNED AND SEALED BY THE IRRIGATION DESIGN PROFESSIONAL AND SUBMITTED TO THE COUNTY'S LANDSCAPE ARCHITECT.

P.O.C. (POINT OF CONNECTION) DIAGRAM

BERRY ENGINEERS LLC
 CIVIL ENGINEER
 3555 KEITH ST. NW, SUITE 109
 CLEVELAND, TN 37312
 TEL: (423) 790-5880
 CERTIFICATE OF AUTHORIZATION #03085

BELTERRA PARTNERS
 728 SHADES CREEK PKWY
 SUITE 130
 BIRMINGHAM, AL 35209

O'REILLY AUTO PARTS
 SW HWY 484
 OCALA, FL



REVISIONS

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SHEET NAME: IRRIGATION PLAN
 DATE: 5/04/2020
 DRAWN BY: KEP
 CHECKED BY: GLC
 PROJECT NO.: 19078
 SHEET NUMBER: L-03