

**NOTE:  
SEE SHEET L-201 FOR IRRIGATION DETAILS**

**IRRIGATION NOTES**

1. Irrigation contractor to locate and protect all underground utilities prior to digging.
2. All valves to be located in valve box with cover at grade; Locate box in grass area when possible.
3. Automatic controller and weather sensor to be located in the storage room and trash enclosure respectively; Weather Sensor to be free from obstructions and exposed to the weather.
4. 45 psi. required per rotor station, 30 psi. required per spray station, and 40 psi. required per drip station. All spray and rotor bodies to have PRS (In-stem pressure regulation) as indicated in the legend.
5. Pressure regulator required by local code if static water pressure at point of connection for site is greater than 80 psi.
6. 4'-6" SCH 40 PVC sleeves to be located as shown on drawing. Extend sleeve 18" beyond back of curb or pavement. Sleeves to be located and exposed by the general contractor prior to start of irrigation installation.
7. Pop-up height of spray heads to be as follows: 4" in Turf Zones, 12" in Shrub Zones, and 12" in Seasonal Color beds. Rotor height to be 4". MPR Rotor Nozzle size is indicated on drawing for each rotor.
8. All pipes, automatic valves, backflow preventor, manual valve and meter to be located within property lines. Shown outside on drawing for clarity only.
9. Irrigation meter and backflow preventor to be provided by the general contractor.
10. All 1.5" mainlines (class 200 PVC pipe) to have a minimum of 18" cover.
11. All lateral and sub-main pipe to have a minimum of 12" and a maximum of 18" cover.
12. No rocks, boulders, or other extraneous materials to be used in backfilling trenches.
13. All pipe, valves, drip, spray heads, rotors, controllers, and weather sensors to be installed per manufacturers specifications. For any questions on Rainbird products or installation of rainbird products call Donn Mann 520-904-1146.
14. All threaded joints to be created with Non Tape or Liquid Tight.
15. All lines to be fully flushed before installation of spray heads.
16. Must use products only listed on this drawing, unless otherwise approved by the Landscape Architect.
17. Irrigation contractor to provide an as-built drawing to the landscape architect; this drawing shall be completed within 24 hours of completion of installation.
18. Irrigation contractor to perform a walk-thru inspection with the Store Operator of the functioning system prior to opening but no later than one week after opening.
19. Irrigation is to be installed as shown, unless otherwise approved by the Landscape Architect.

**Retrofit new heads to existing irrigation system. Cap any unused lateral or mainlines. Ensure that all zones work properly and there is head to head coverage in all areas.**

**IRRIGATION LEGEND**

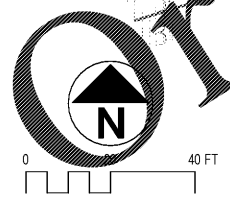
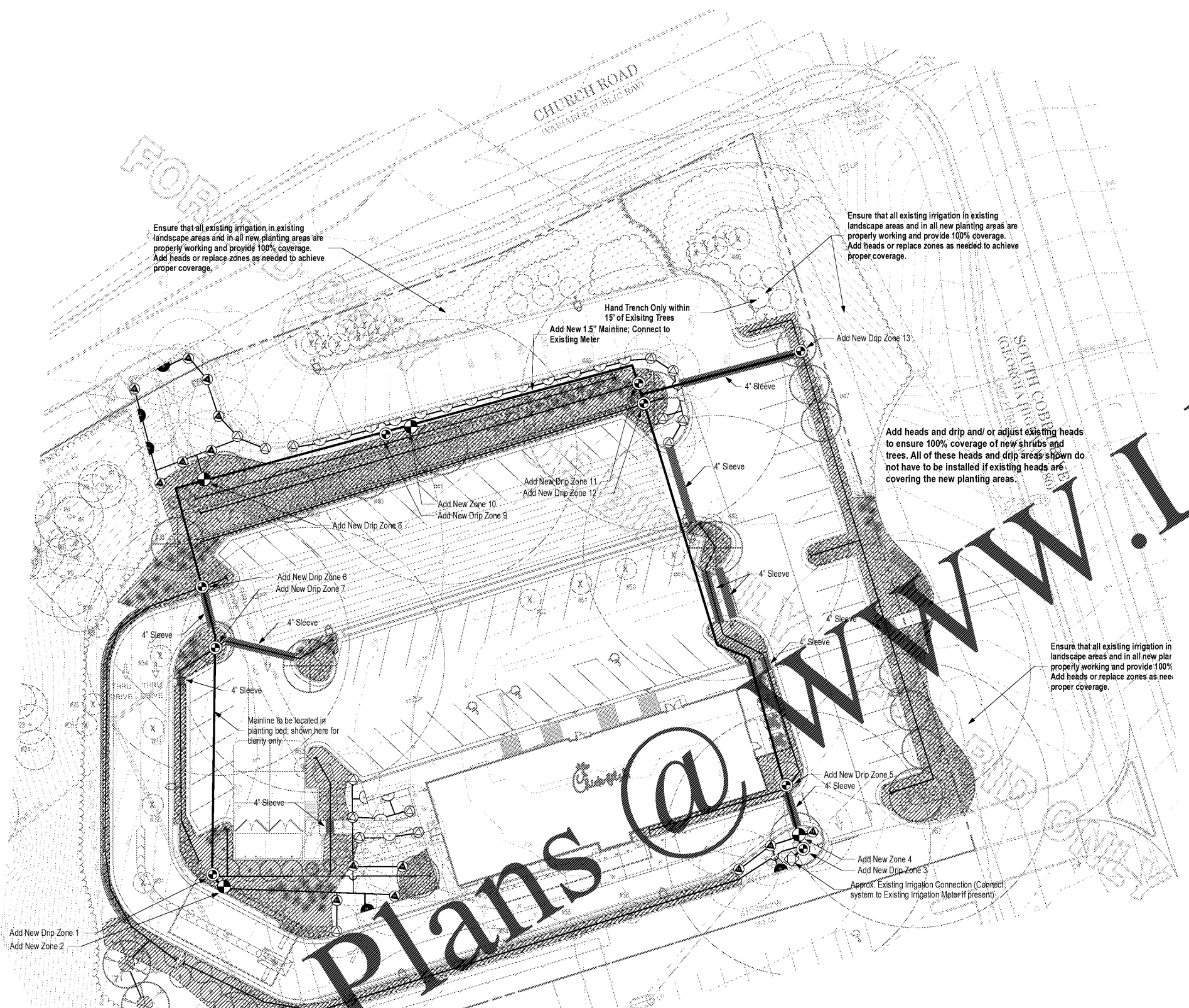
[M]	1" IRRIGATION METER	PROVIDED BY THE GENERAL CONTRACTOR
[S]	1" MANUAL SHUTOFF VALVE	(1 REQUIRED)
[BF]	RPZ BACKFLOW PREVENTER	AS REQUIRED BY CITY
[PR]	1" PRESSURE REGULATOR	AS REQUIRED
[EV]	1" ELECTRICAL MASTER VALVE	(1 REQUIRED)
[//]	LANDSCAPE DRIPLINE	RAINBIRD XFD-06-18
[□]	360 SPRAY HEAD - 10' RADIUS	RAINBIRD 1800-PRS-U10F
[■]	180 SPRAY HEAD - 10' RADIUS	RAINBIRD 1800-PRS-U10H
[○]	90 SPRAY HEAD - 10' RADIUS	RAINBIRD 1800-PRS-U10Q
[▽]	HIGH EFFICIENCY VARIABLE SPRAY HEAD	RAINBIRD 1800-PRS-HE-VAN-10
[▽]	HIGH EFFICIENCY VARIABLE SPRAY HEAD	RAINBIRD 1800-PRS-HE-VAN-15
[▽]	360 SPRAY HEAD - 15' RADIUS	RAINBIRD 1800-PRS-U15F
[▽]	270 SPRAY HEAD - 15' RADIUS	RAINBIRD 1800-PRS-U15TQ
[▽]	180 SPRAY HEAD - 15' RADIUS	RAINBIRD 1800-PRS-U15H
[▽]	90 SPRAY HEAD - 15' RADIUS	RAINBIRD 1800-PRS-U15Q
[▽]	360 ROTARY NOZZLE - 16" (regulated at 45 psi)	RAINBIRD 1800-PRS-R13-18F
[▽]	180 ROTARY NOZZLE - 16" (regulated at 45 psi)	RAINBIRD 1800-PRS-R13-18H
[▽]	90 ROTARY NOZZLE - 16" (regulated at 45 psi)	RAINBIRD 1800-PRS-R13-18Q
[▽]	360 ROTARY NOZZLE - 21" (regulated at 45 psi)	RAINBIRD 1800-PRS-R17-24F
[▽]	180 ROTARY NOZZLE - 21" (regulated at 45 psi)	RAINBIRD 1800-PRS-R17-24H
[▽]	90 ROTARY NOZZLE - 21" (regulated at 45 psi)	RAINBIRD 1800-PRS-R17-24Q
[▽]	360 MPR SERIES STREAM ROTOR	RAINBIRD 5000-MPR-F25/30/35 (as indicated on the head)
[▽]	180 MPR SERIES STREAM ROTOR	RAINBIRD 5000-MPR-H25/30/35 (as indicated on the head)
[▽]	90 MPR SERIES STREAM ROTOR	RAINBIRD 5000-MPR-Q25/30/35 (as indicated on the head)
[○]	1" ELECTRIC VALVE	RAINBIRD 100-PGA
[○]	1" DRIP CONTROL ZONE VALVE	RAINBIRD XCZ-100-B-COM
[○]	AUTOMATIC CONTROLLER	RAINBIRD ESP-SMTe
[○]	WEATHER SENSOR	INCLUDED W/ CONTROLLER
[C]	CLASS 200 PVC IRRIGATION PIPE AND FITTINGS	1" pipe unless otherwise indicated on drawing; 1.5" mainline
[WS]	4' - 6" SCH 40 PVC SLEEVE UNDER PAVEMENT	installation of sleeves by contractor in location as shown on plan; size as indicated

**IRRIGATION ZONES**

<b>SMART CONTROLLER</b>	
1.....DRIIP	7.....DRIIP
2.....14.31 GPM	8.....17.52 GPM
3.....DRIIP	9.....DRIIP
4.....06.48 GPM	10.....16.38 GPM
5.....DRIIP	11.....DRIIP
6.....DRIIP	12.....DRIIP
	13.....DRIIP

**Irrigation contractor shall provide an as built drawing to the landscape architect. This drawing shall be overnighted to Manley Land Design, Inc within 24 hours of completion of installation.**

**Irrigation Contractor to perform a walk-thru inspection with the Store Operator of the functioning system prior to opening but no later than one week after opening.**



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NO.	DATE	DESCRIPTION
1	11/28/17	2nd Commercial Bid
2	1/25/18	Revised Comments for Bid

MLD PROJECT # 2017141  
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SHEET  
**Irrigation Plan**

Bid  
 SHEET NUMBER  
**L-200**