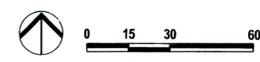


**Zone Chart**

Zone #	GPM	Precip. Inches/Hr.	Approx. Peak Weekly Run Time*
1	52	1.2	1 hr. 30 min.
2	47	1.2	1 hr. 30 min.
3	45	1.2	1 hr. 30 min.
4	55	1.2	1 hr. 30 min.
5	52	1.2	1 hr. 30 min.
6	52	0.6	3 hrs. 0 min.
7	57	0.6	3 hrs. 0 min.
8	46	1.2	1 hr. 30 min.
9	57	0.6	3 hrs. 0 min.
10	51	0.6	3 hrs. 0 min.
11	52	0.6	3 hrs. 0 min.
Total Peak Weekly Run Time *			24 hrs.

\* Actual run times will vary based on weather, slope, exposure, & desired turf conditions

See Sheet 2 for installation details and specifications.



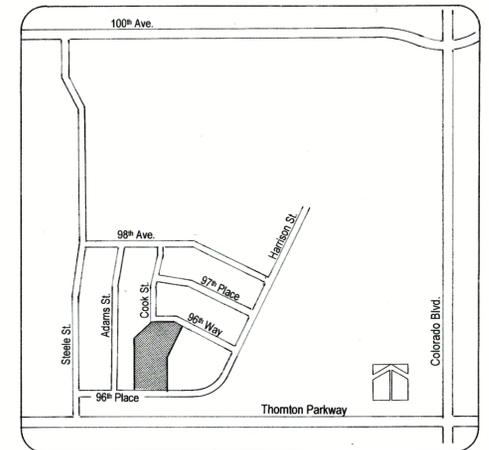
**Legend & Notes**

- Existing 2" copper service, meter, & backflow preventer to remain
- Existing Rainmaster Eagle controller to remain
- Existing 3" PVC mainline (approx. location)
- New Quick Coupling Valve: Buckner #QB44RCAR10 in Carson #910 10" round box w/ #910-4 green T-lid (or equal).
- New 3" CL200 solvent weld PVC mainline w/ Sch. 40 welded joints, Sch. 80 threaded joints.
- New Master Valve: Toro P-220 2" globe valve with Spears #8098-020SR steel reinforced unions upstream & downstream, in Carson #1324-12 super jumbo box w/ #1324-4L green T-lid with extension, or equal.
- New Flow Sensor: Creative Sensor Technology model #FSI-T20-001 2" PVC Tee Type (or equal). Install with minimum 24" jointless straight run of 2" PVC upstream and minimum 12" jointless straight run of 2" PVC downstream. Install in Carson #1419 standard box with #1419-4 green T-lid and extension as needed. Provide new run of #18 AWG copper 2-strand shielded cable to existing controller.
- Approx. existing control valve location. Replace existing valves with new Toro P-220 2" globe valve with upstream Spears #2621-020G 2" PVC ball valve and Spears #8098-020SR steel reinforced unions upstream & downstream, in Carson #1324-12 super jumbo box w/ #1324-4L green T-lid with extension, or equal.
- Approx. existing rotor head location. Replace existing heads with new Rainbird Falcon 6504 series head w/ stainless steel riser, or equal, part circle or full circle as shown. Install on existing swing joint. Provide new 1" PVC swing joint as detailed in not existing or if existing is damaged.

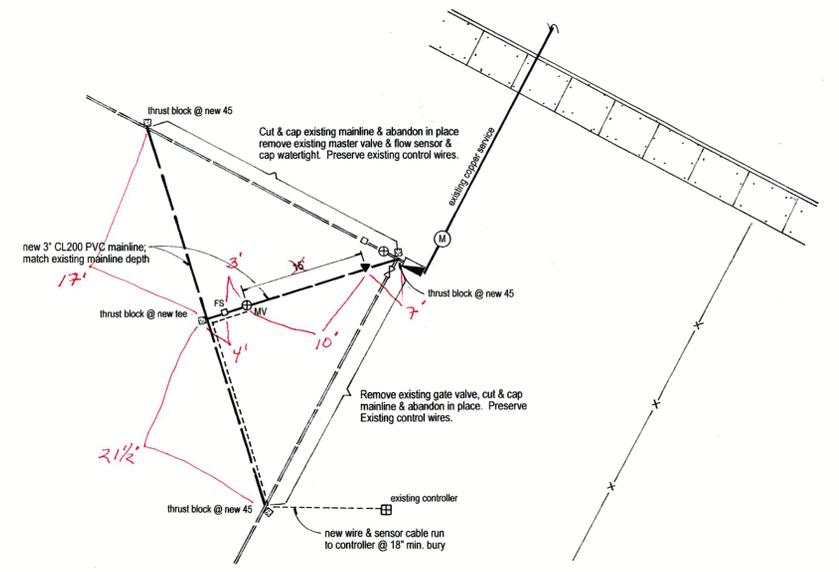
*\* used a 2" Bernad #210 cast iron gate rather than the specified Toro P220. 2 spare green wires installed in master valve box.*

**Rainbird 6504 Nozzle Color Key**

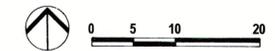
- 6 blue
- 8 green
- 10 gray
- 12 tan
- 14 aqua



VICINITY MAP



Mainline Reconfiguration - Plan Detail



Adams Street

96th Place

**Liberty Hills Park • Irrigation Renovations**  
City of Thornton Project No. 16-359B

**Irrigation Plan**

Prepared for:  
**City of Thornton**  
9500 Civic Center Drive  
Thornton, Colorado 80229

Prepared by:  
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