



SurfaceFlow Irrigation Technology Turf Retrofit Installation Instructions

The following instructions are intended to guide the contractor through the necessary steps to successfully install the SurfaceFlow “low flow” system in existing Turf areas. The intent is to provide full coverage, promote healthy growth, eliminate runoff and be water efficient.

Preparations

Site Preparation:

1. Evaluate the site, access, laydown area and have a full understanding of the limits of work and any site limitations
2. Review the design layout with Jardinier staff prior to any work
3. Introduce the project manager to Jardinier staff, client/owner or onsite representative
4. Fully advise the client/owner and Jardinier staff you time line for move in and completion.
5. Check with the client/owner to see if there are any time restrictions for working at the site
6. Obtain SurfaceFlow and other materials necessary to fully complete the project prior to moving on to the site
7. Notify everyone of any protection devices or barriers you plan on putting out on the site or if you plan on disturbing access to an any surrounding areas

Existing Turf:

1. All Bermuda and St. Augustine grasses are to be scalped as close to the soil as possible. Fescues and Bluegrasses are to be cut to 1 inch of the soil
2. Remove all thatch and debris from the site
3. Even out the low and high spots as much as possible

Existing Irrigation system:

1. Evaluate the existing system and make sure you have full knowledge of location of valves, mainlines, wires and controller
2. Verify the point of connection with the client/owner/maintenance staff
3. Review existing system with maintenance staff who is knowledgeable with the system
4. Check to make sure the control valves are operative
5. Check water pressure and inquire about pressure loss/jump or if the system is on a pump. If high pressure exists, consult with Jardinier staff prior to starting work.

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Installation

Irrigation System

1. Jardinier personnel are to be on site prior to any trenching to review layout with contractor
2. Trench, narrow trenches are acceptable, to 8" in depth as per the plans and details. Careful not to cut any existing mainlines or controller wire.
3. If existing mainlines or controller wires are cut, repair immediately
4. Expose existing valve(s), install y strainer and pressure reducer as per plan/detail
5. Install proper emitter onto 1/2" diameter Schedule 40 pre-drilled pipe
6. Make adjustments, add emitters as noted and put the pipe with the emitters in trenches as noted on plans/details, connect system as required
7. Emitters and tubes to be in an upright posture
8. No lateral line shall exceed 60 feet in one direction from valve
9. Loop system around all existing trees as per plans
10. Loop system at the end of runs as per plans and install air release valve and flush valve as indicated
11. Connect lateral line to valve/Y strainer, pressure regulator
12. Do an open trench test for leaks with an owner representative present
13. Backfill and compact all trenches (leave no loose dirt in trenches) to relative density of surrounding soil
14. Flush system and make adjustments based on Jardinier staff recommendations

Grade and Turf

1. Review project site with Jardinier staff and client/owner prior to any further work
2. Level grade on the entire site. If low spots occur, backfill with sandy loam soil
3. Aerate existing turf areas, remove debris
4. Thoroughly wet the entire area and do additional compacting of trenches if necessary to avoid settling
5. Broadcast matching turf seed over entire site based on specifications supplied by seed company
6. If necessary, rake the entire area to make sure seed comes in contact with the soil
7. Apply 1 1/2" of Kellogg Topper over the entire site
8. The Topper is to remain wet by utilizing top watering and the low flow system for the next two to four weeks to promote germination and growth
9. Reseed and top dress as necessary
10. Prior to the first mowing, Jardinier staff to meet with the contractor to cut the tubes to the appropriate height, 1/2" below grass cut height, cut the grass to the proper height

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11. Jardinier staff and the contractor to go over the complete system with the client/owner

Maintenance

1. Review the operation of the irrigation system on a weekly basis for the first two months. Contact Jardinier immediately with any questions or concerns.
2. If an emitter is to be replaced, utilizing a plug digger (as used to make a cup hole on golf greens) remove the soil around the emitter, take off the existing emitter and replace with a same gallon per hour emitter
3. Cut and maintain the grass based on horticulture standard for the type of grass
4. Reset the controller based on need and seasonal change
5. Fertilize the turf at 30, 60 and 90 days as per specification or with a slow release fertilizer

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