



SurfaceFlow Irrigation Technology New Turf Installation Instructions

The following instructions are intended to guide the contractor through the necessary steps to successfully install the SurfaceFlow “low flow” system for new Turf applications. 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 Landscape Architects landscape plan and the irrigation 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

Irrigation system:

1. The main lines, controller wires and valves should be installed at the time the SurfaceFlow system is to be installed.
2. 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.

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 mainlines or controller wires are cut, repair immediately
4. Install valve(s), y strainer and pressure reducer as per plan/detail
5. Install proper emitter onto 1/2” diameter pre-drilled pipe

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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 and new 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 owners representative present
13. Backfill and compact all trenches (leave no loose dirt in trenches)
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. Thoroughly wet the entire area and do additional compacting to trenches if necessary to avoid settling
4. Rotor till and install mulch/amendments as per landscape architects specification
5. Roll as necessary to achieve desired levelness, install starter fertilizer if specified
6. Either install sod or broadcast turf seed over entire site as per the landscape architects plans or based on specifications supplied by seed company
7. Apply top dressing as per plans or apply a minimum of 1 ½" of Kellogg Topper over the entire site, make sure there is ample mulch around each emitter
8. Roll as necessary
9. The soil/topper is to remain wet by utilizing top watering and the low flow system for the next two to four weeks to promote growth and/or germination
10. Re-sod or reseed and top dress as necessary for full coverage
11. Prior to the first mowing, Jardinier staff to meet with the contractor to cut the tubes to the appropriate height, cut the grass to the proper height
12. 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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