



## SPORTSEGE® PRO-S DRAIN INSTALLATION

### **Installation Notes for SportsEdge® Pro-S (standard) Channel Drain**

#### **Materials List**

Please note that only the drain system is supplied by SportsEdge (drain channels, catch basins, grates, grate locking devices and drain accessories as required per project).

- SportsEdge drain channels
- SportsEdge catch basins
- SportsEdge grates, grate locking devices and drain accessories
- concrete forms / form lumber
- duplex nails / wood screws
- nail stakes
- string line
- laser level with receiver and grade rod
- 2" x 4" x 24"+ suspension lumber
- duct tape
- concrete saw w/ diamond blade
- hammer drill
- 3/8" masonry drill bit
- various wood drill bits

Please read carefully!!

Read installation instructions from beginning to end before starting the installation.

#### **Notes:**

1. Completely consolidate the concrete during the concrete pour.
2. It is recommended that the grates or other filler material (plywood ripped to size be placed in the drain channels to ensure that the channel remains clear of concrete and the track material during installation. Keep the drain channels & grates protected and clean throughout the construction process.
3. Always double check the channel locations per the plans before the final concrete pour; make sure the top elevation is correct and the drain is aligned longitudinally.

## SPORTSEGE® PRO-S DRAIN INSTALLATION

1. For the straight-aways; set a string line that can be used frequently when setting the channels to make sure the SportsEdge channels are set straight.





## SPORTSEGE® PRO-S DRAIN INSTALLATION



2. Lay out drain channels along the trench to speed up installation. Pre-install suspension lumber (pre-bored 2x4 boards) with lock toggles, washers and 4 1/2" long bolts.



3. Set concrete edge forms on both sides of the drain to the correct elevation. This elevation is per architectural plans for the top of the finished concrete encasement. Check all elevations using a laser level and string lines. Great care should be taken to make sure the concrete forms are set straight. The forms should be reinforced with nail stakes to ensure no movement during the concrete pour. Install stakes as required by local soil conditions. Likewise in the radiuses, formwork should be set to ensure the finished concrete radius is smooth and continuous in appearance. **\*\*Note:** for applications where the track surface is poured over the concrete encasement right up to the channel drain, the finished elevation of the concrete on the track side may be lowered slightly by approximately 0.5" or 12.7mm. Please check the design drawings, with the track surface installer, and/or with the architect / designer as required.

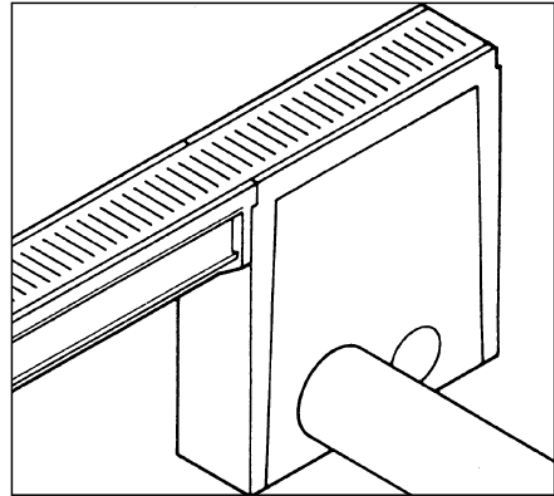


Note: When setting channel locations around the radius; use a steel tape from the radius pin. Make sure the radius is free of obstructions before beginning. Attach the end of the steel tape to the radius pin if possible. See the plans for the radius measurements.

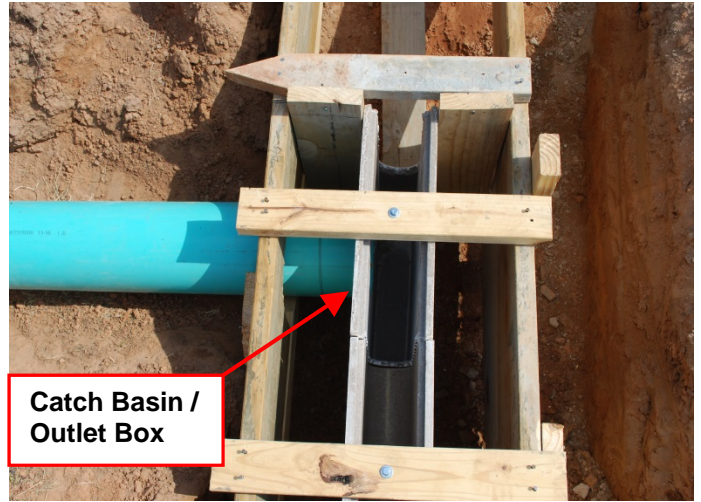


## SPORTSEGE® PRO-S DRAIN INSTALLATION

4. Before setting the catch basins, it is important to cut or drill out the necessary size hole for the outlet pipe in the catch basin sidewall as indicated on the project design drawings. This can be done using a diamond tipped hole saw or 3/8" masonry drill bit. When using masonry drill bit, drill holes around the circumference at 3/4" centers and tap out the remaining fins of polymer concrete with a cold chisel, then grind smooth for outlet pipe insertion. Do not attempt to "knock out" the pipe hole without pre-drilling. This will likely shatter the catch basin.



Typical 900 series catch basin installation

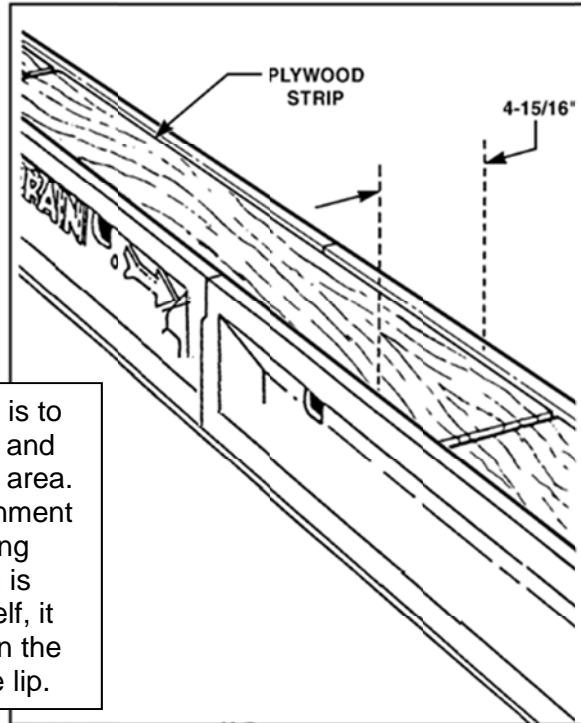


5. Start at one end of one of the straight-aways (beginning of the radius) and set the first SportsEdge in line catch basin.

6. Work upstream suspending the drain channels from the edge forms. Consistently check the channel drain placement to ensure the channels are longitudinally aligned. Fasten suspension lumber to edge forms to help stabilize the concrete edge forms using screws or duplex nails.

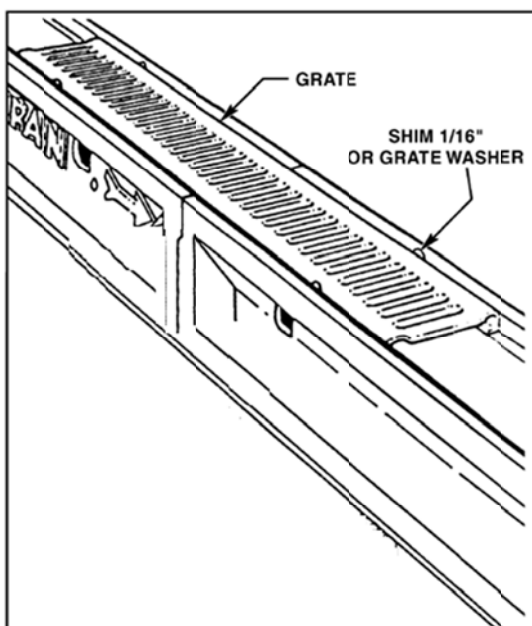
## SPORTSEDGE® PRO-S DRAIN INSTALLATION

7. Once the channels are set and stable and prior to concreting; install the grates and cover them to protect from the concrete pour (wrap the grates with polyethylene or mask with tape). With this method a shim should also be placed between the grate (before concrete pour) and the upright edge of the channel grate lip for the grate to fit properly after concreting.

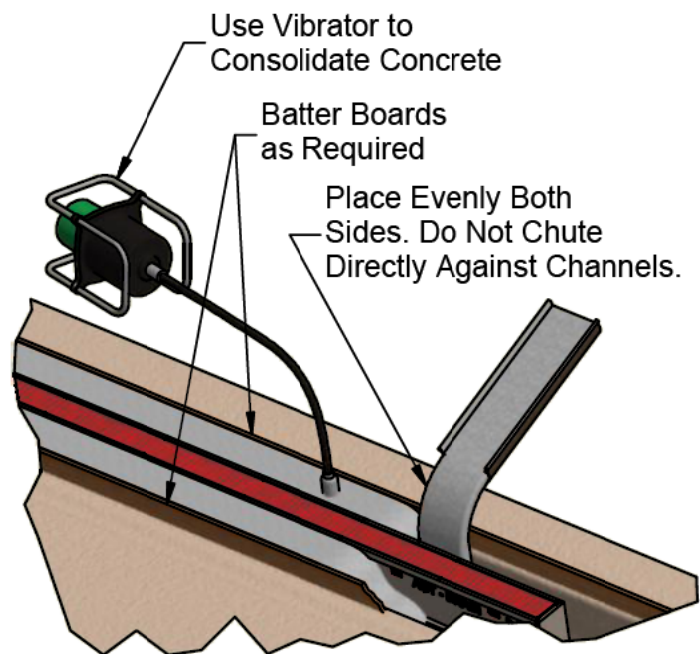


Note; the second possible option is to rip 3/4" x 4 15/16" plywood strips and place into the channel grate seat area. This helps maintain channel alignment and prevents concrete from spilling into the channel. Since this width is slightly greater than the grate itself, it is not necessary to place shims in the upright edge of the channel grate lip.

Placement of plywood strip across the channel joint



Placement of grate across channel joints

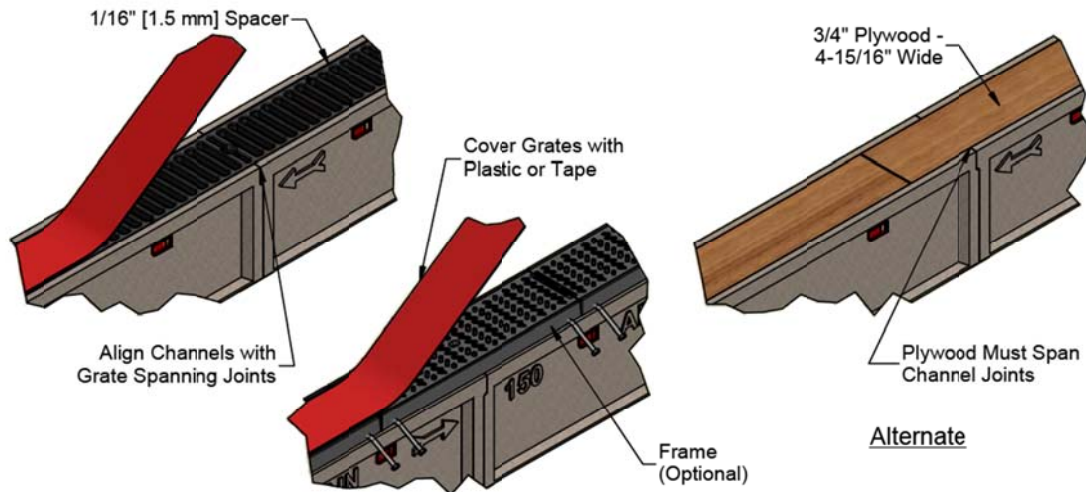




## SPORTSEGE® PRO-S DRAIN INSTALLATION

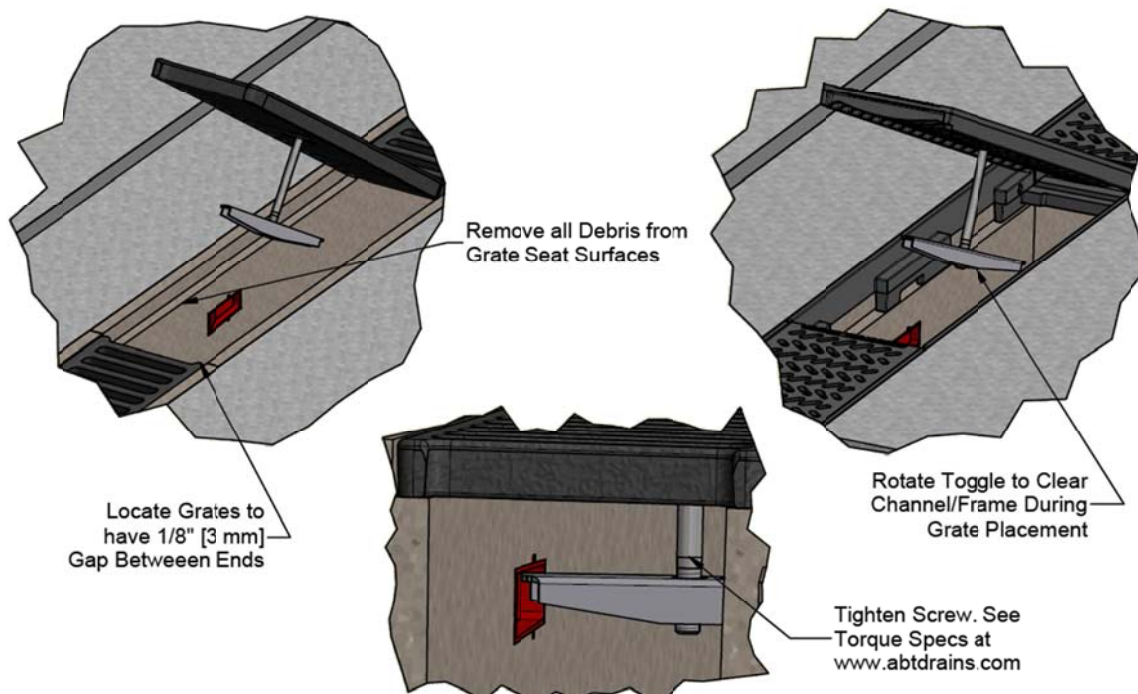
**Note:** If using one meter long galvanized grates you can stagger the (1M) grates by starting each piece in the middle of a 1 meter channel (on the straight away). Lock the grates (2 locking devices per grate) into place. The locked down grates will help add stability to the drain system.

### INSTALLATION PREPARATION



### GRATE INSTALLTION PRIOR TO CONCRETING

### GRATE INSTALLATION

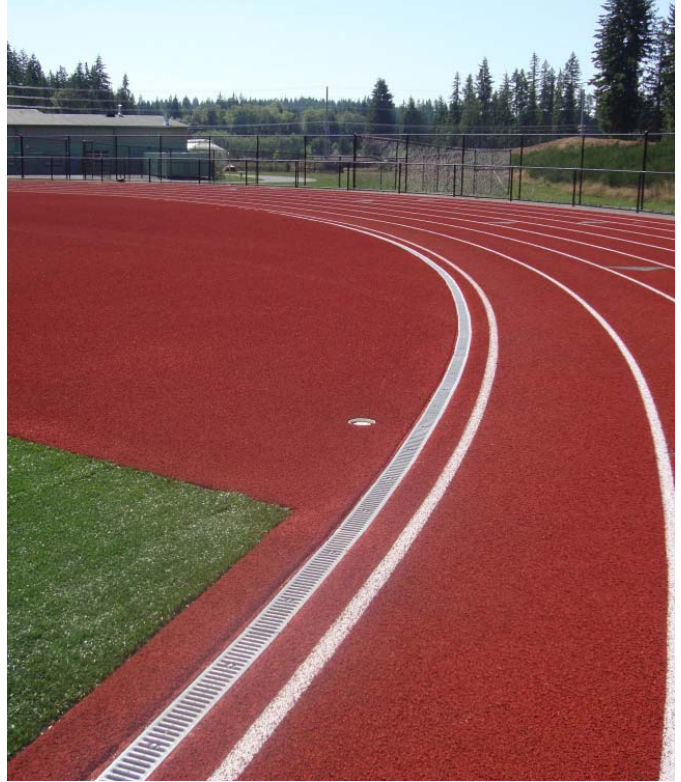


### GRATE INSTALLATION - TOGGLE & RED DOT®

## SPORTSEGE® PRO-S DRAIN INSTALLATION

8. For final concrete pour: Cut a 10 foot length of 6" or 8" PVC pipe in half lengthways. Use the half circle piece of pipe on top of the drain channel when pouring to distribute the concrete evenly on both sides. Vibrate the concrete to consolidate and use hand floats to finish and float the concrete level with the concrete forms. Continue around the track by sliding the pipe along as you go. This will help to keep the channels from being knocked out of line and help to keep the grates clean.

9. Remove suspension lumber as soon as possible to float the concrete and remove board lines before the concrete starts to set.



### **Additional Notes:**

1. Double check channel locations and elevations before the final concrete pour.
2. Distribute concrete evenly on both sides of the channel drain and bring up evenly to maintain alignment.
3. Keep the drain system and grates protected and clean all through the construction process.