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Base Can and Fixture Installation Instructions with Mud Ring

Purpose:

The purpose of this procedure is to provide installers with instructions on how to install and align the base cans.

Procedure:

1. Base cans are shipped with protective plywood covers. Remove the base can covers and store them in a safe location.



Base Can Shown with Cover Attached



Base Can Shown with Cover Removed

2. To install base cans, begin by core drilling (typically 12" in diameter and 23" deep) holes in the locations specified by the project engineer. Saw cuts should then be made to allow room for the fixture power cables (typically 3" deep x 1/2" wide). Saw cuts are typically made parallel to the direction of the pedestrian travel and in line with the centers of the conduit holes.
3. Prepare the drainage system specified by the design engineer (Refer to installation manual for details about typical drain system specifications.).
4. Attach the mud ring (mud ring can be 1/4" or 3/4" deep depending on the fixture) to the base can using the bolts that came with the base can. Then install the base can drain fittings provided (pictured below) into each base can drain hole. Run 1-1/2" size pipe, schedule 40 PVC, into the fittings of the base can. Pipe length should be cut so the pipe, when positioned over the drain, extends approximately 3" to 4" into the drain rock.



*External Fitting (Left), Internal Fitting (Right)
and Mud Ring with Bolts*



Base Can Shown with Fittings Installed

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5. Use of a mounting jig is recommended for proper alignment of base cans. The mounting jig is mounted to the base can by the use of two bolts that fit into the base can bolt holes.



Mounting Jig Attached to Base Can



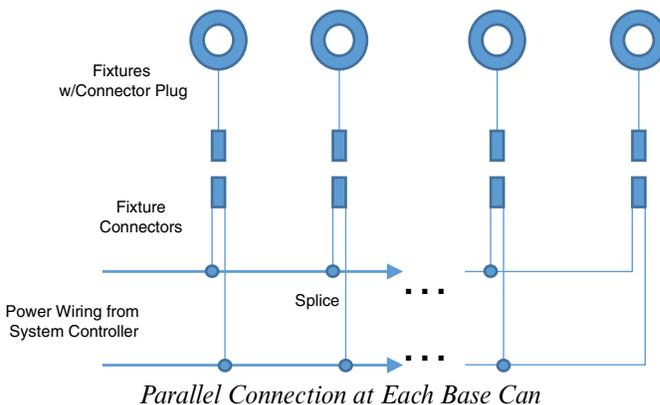
Base Can Attached to Drain Conduit



Base Can Installed in Roadway

6. After the mounting jig is attached, suspend the base can so the top of the mud ring is flush with the surface of the pavement. Align the base can so the fixture optics (when the fixture is inserted) will align parallel with the traffic lane. The base can seam can be used as a reference in the alignment process. **Note:** In some cases, it may be more desirable to align the fixtures at a different angle(s). Consult with your project engineer to determine the optimal alignment angle for you specific installation.
7. After the base cans are installed, test the drainage system by pouring water into the installed base can at each fixture location. Pour enough water to verify that the underlying ground is absorbing the water. If the base can is not draining properly, modifications to the drainage system will be necessary. In this case, consult with your project engineer before proceeding.
8. Once satisfied with drainage system, move on to the installation of the fixture power cables (see installation manual for details).
9. After all cabling has been completed, encase the base cans and drainage system in concrete. It is recommended that at least 6" of concrete be used below the base. Fill saw cuts with Traffic Loop Sealant, or equivalent (see installation instructions for details). Remove mounting jig, clean out base can and replace protective plywood covers until fixtures are ready for installation.
10. Make a parallel circuit with 3M or similar waterproof splice kits. At each base can, using a fixture connector, connect the black pigtail lead to the black power wire and connect the white pigtail to the white (red) power wire. Check the integrity of the splices. At each base can, plug a fixture into the connector. Then bolt the fixture to the base can using the steel bolts provided.

Note: The mud ring diameter is larger than the fixture diameter. This gap (up to 1/4"), between the fixture and mud ring, provides room for the torque wrench socket when bolting the fixture to the base can. The gap also makes it easier to remove the fixture for maintenance.



Fixture and Connector

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