

Case Study

BG-FILCOTEN[®] Channel Drains

BG-FILCOTEN[®] CHANNEL DRAINS MEET SPECIFIC DESIGN APPEAL AND 100-YEAR STORM PROTECTION FOR A DOWNTOWN DALLAS-BASED INNOVATION AND TECHNOLOGY DISTRICT

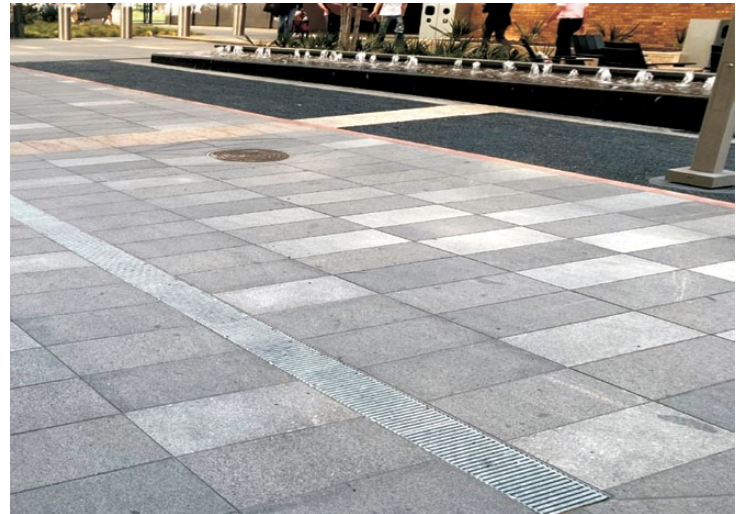
A innovation and technology park in the heart of a major TX city was developed by a global tech services company to offer the community both a common area and pedestrian park connected to multiple businesses, restaurants and high-end apartments. A new building located onsite was part of a larger project to relocate and link the tech company's vital infrastructure to the area – inclusive of high tech and sensitive computer equipment and a high-speed fiber optic cable line.

Since the site was very flat, there was concern amongst the project team that water could seep into the buildings and damage equipment following a storm, so the specifier on the project reached out to their NDS specification manager to help find the right product for managing water. At the same time, NDS needed to select a solution that would maintain the area's high-end aesthetics, which included tall glass openings, sunshades and a large outdoor screen.

DESIGN WORX[®] TEAM CALCULATES DRAINAGE, OFFERS SOLUTION WITH PREMIUM DESIGN ELEMENTS

The NDS Design Worx team reviewed the original layout and was able to improve performance by analyzing total system capacity. Part of the task was ensuring the water management system could handle a 100-year storm event. By calculating the drainage required, the team determined traditional catch basins were not a feasible option since the project didn't have enough grade and water needed to be able to drain quickly.

With this knowledge, the design firm worked with their NDS spec manager who developed a comprehensive channel drain recommendation and supplied or sourced all product needed for the project.



FLEXIBILITY AND VERSATILITY OF FILCOTEN LINE EXCEEDS PROJECT REQUIREMENTS

BG-FILCOTEN[®] channel drains with 8 in. galvanized Kiara grates were installed in high-flow areas such as along the interior of the walking spaces and the outermost edges of the downtown area. This approach ensured excess water would be captured before running into the public right of ways as well as provided load class E ratings. Additional stainless-steel slot drains were placed at the entrances and exits of the local buildings as extra protection and to keep water from entering the structures, meeting load class C ratings since they were installed in emergency access areas.

The specifier found the versatility of the NDS line attractive and appreciated that the BG-FILCOTEN line met all stormwater needs while still offering the high-end finishes that the technology company wanted to match the surrounding architecture.

PROJECT SUMMARY

PROJECT TYPE
Capture & Convey

PROPERTY
Multi-use Retail

NDS PRODUCTS USED

250 lf of BG-FILCOTEN Tec V 100 4" Channel Drains and Grates
295 lf of BG-FILCOTEN Pro V 200 8" Channel Drains and Kiara
200mm Custom Galvanized-Coated Grates

NDS Design Worx[®] Services Utilized:

1. Product specification
2. Drainage calculation
3. Plan evaluation
4. CAD file creation
5. Submittal drawing preparation