

New School Building Calls for NDS Channel Drains to Help Prevent Water Pooling in Busy Parking Lot

Project Name: Marshfield Jr. High School
Location: Coos Bay, OR
Segment: Commercial – Small (<1-10 Acres)
Products: DuraSlope Channel Drain
Property Type: Public School
Partners: Knife River Corporation, Ferguson WaterWorks



Challenge: School parking lot requires drainage to capture sheet flow

In 2020, the Coos Bay school district announced the building of a new junior high school to be complete by 2021. Construction would require expansive parking areas to accommodate several bus lanes and heavy amounts of traffic. The lot was set on a grade so it was important that engineers could ensure the prevention of water pooling, utilizing a channel drain capable of handling heavy loads and extensive traffic during pick up and drop off hours. In order to meet accessibility and safety codes, any open grates also needed to be ADA compliant and heelproof.

Solution: NDS DuraSlope channel drains handle heavy loads, easier to install

NDS DuraSlope was chosen as the perfect solution for a number of reasons. Not only does it feature pre-sloped channel sections, it can quickly and more efficiently move large volumes of water while its ductile iron grates can handle heavier loads. The system is also heel proof, which was a key factor in the team's decision.

Almost 200 linear feet of product was placed during the parking lot's installation. DuraSlope is known for saving on installation time and costs as it is a modular system that comes with tongue and groove joints, making it easier for the construction team to manage.

Impact: Project success all around

NDS DesignWorx developed a comprehensive DuraSlope layout, after helping to identify the quantity of drainage necessary and determining the product was a good fit for this application. The project team reports that the lot was finished on time and within budget and DuraSlope has proven itself capable of handling the constant daily traffic while keeping water away from both busy foot and vehicle traffic areas now that the school has officially opened.

"We appreciate working with the NDS team. They supply product in a timely manner and their product works great."

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