

## PROJECT LOCATION

- The Mill City Falls Park project is located in Mill City, Oregon. This city is located 30 miles east of Salem, Oregon. The park previously housed a water treatment facility that is no out-of-use. The City of Mill City wants the park land to be renovated to be accessible and aesthetic to the nearby community.

## PROJECT SCOPE

## GEOTECHNICAL

- Retaining Wall
- Pedestrian Pavillion

## TRANSPORTATION

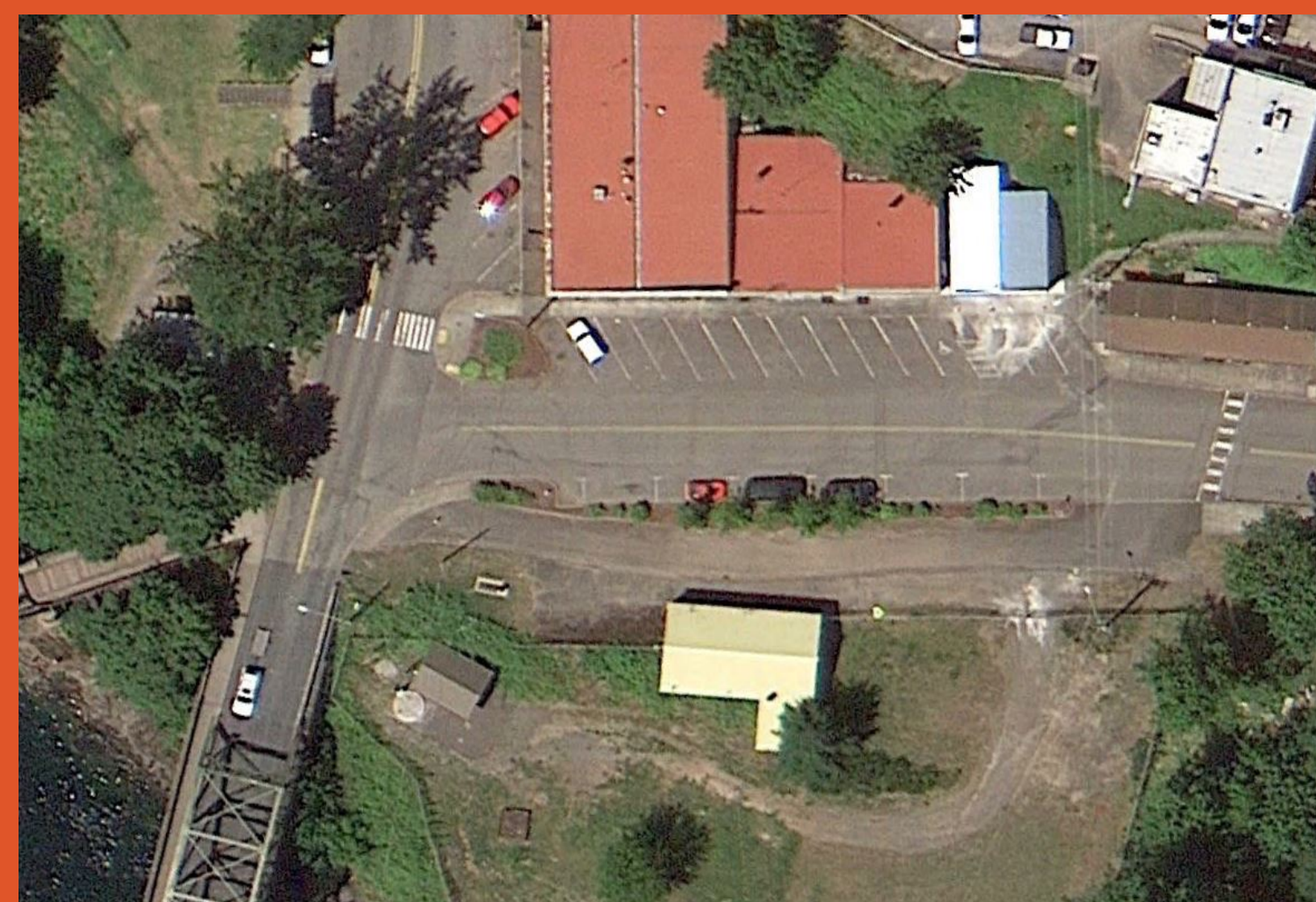
- ADA compliant Sidewalks and Curbs
- Intersection Design

## WATER RESOURCES

- Rain Garden, Detention Basin, Pipe Design
- Catch Basins, Flow Control, Conveyance

## EXISTING CONDITIONS

- Existing site houses the unused water treatment facility and an adjacent maintenance building.
- Parallel parking spaces and existing asphalt sidewalk.
- Borders the North Santiam River.



Existing Conditions (Keller Associates)

# MILL CITY FALLS PARK

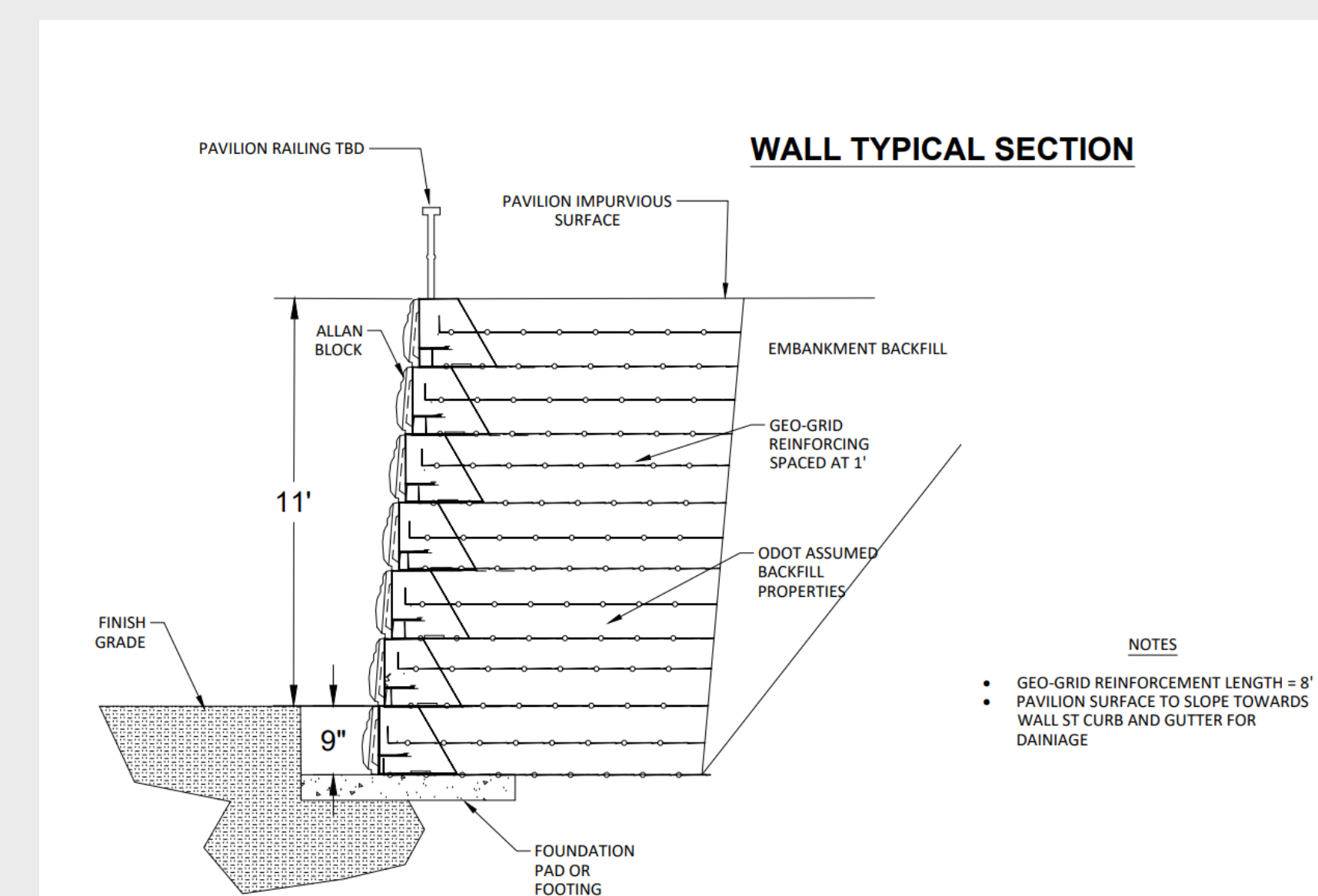
## LOCATED 30 MILES EAST OF SALEM, OR



(Keller Associates)

## GEOTECHNICAL

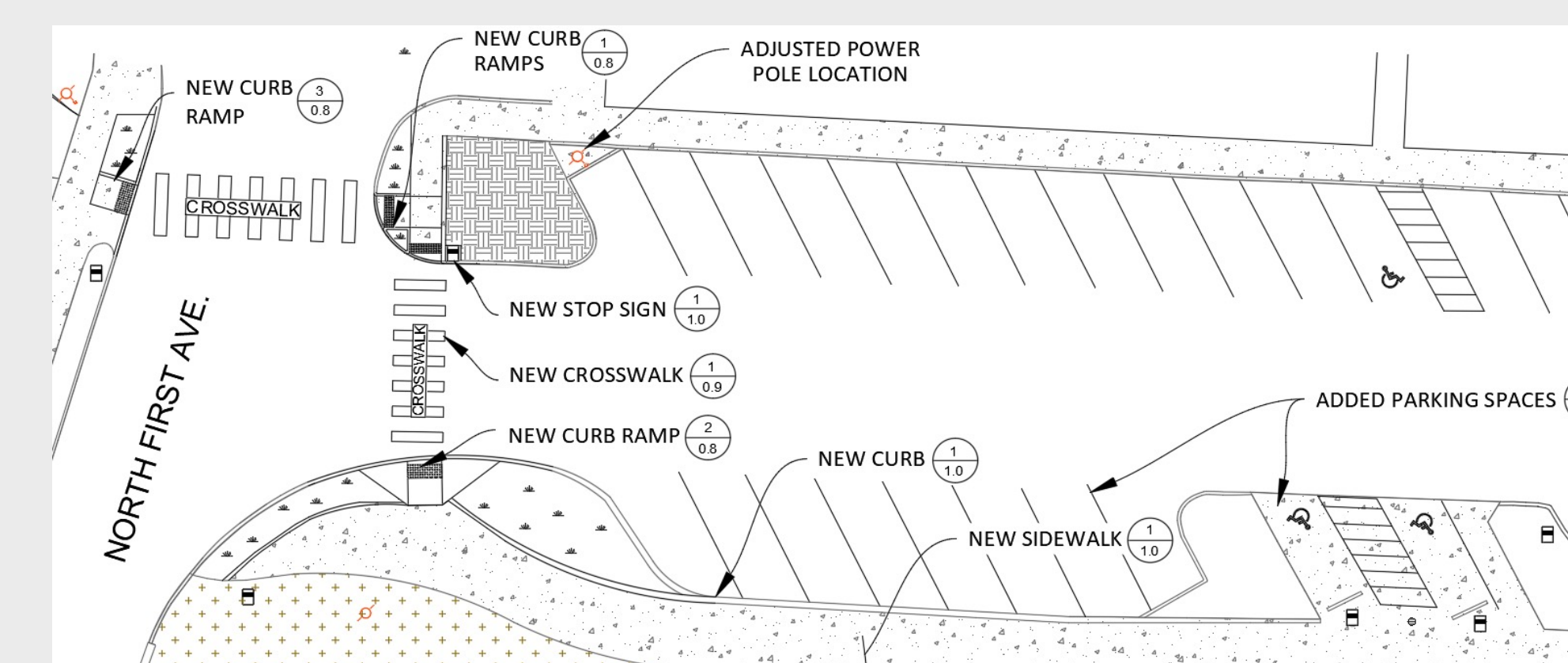
- A retaining wall is needed on our project site to run along Wall Street to the south. The wall will be at a maximum of 11ft tall and will support the new event pavilion
- Soil conditions field study was performed in early 2023 by GeoEngineers Inc. to determine soil type, groundwater height, and aggregate gradation
- Both a concrete gravity wall and a mechanically stabilized earth (MSE) wall were considered for alternatives
- A MSE wall was selected for our final design and was designed to meet ODOT and AASHTO standards



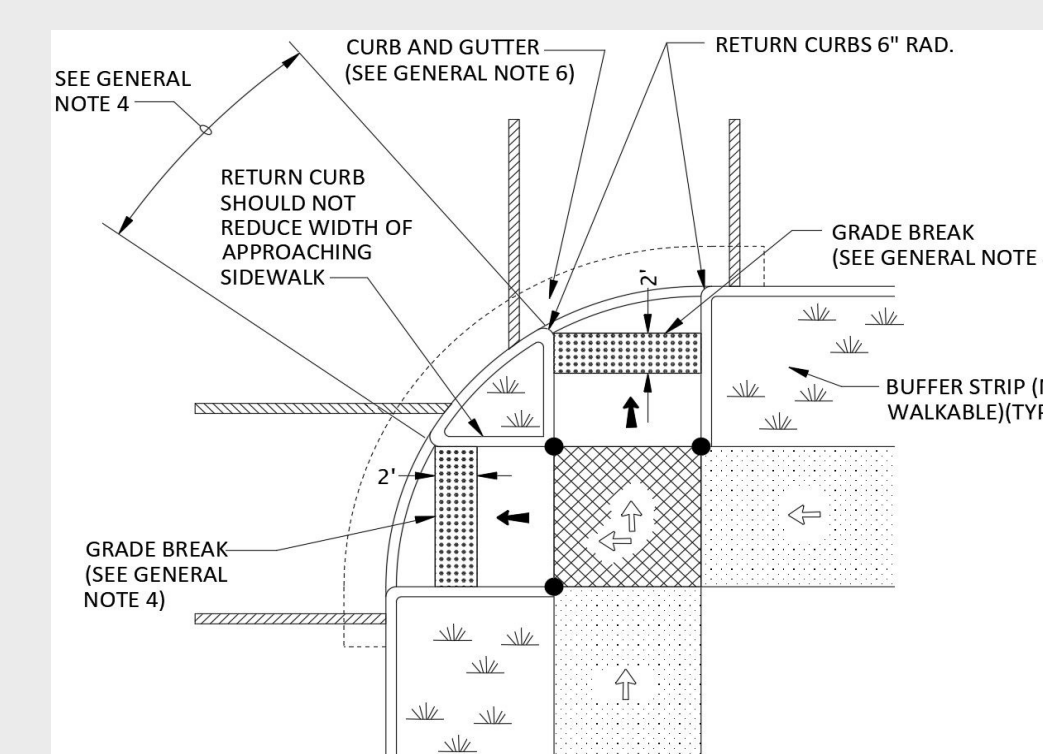
MSE Wall Final Design

## TRANSPORTATION

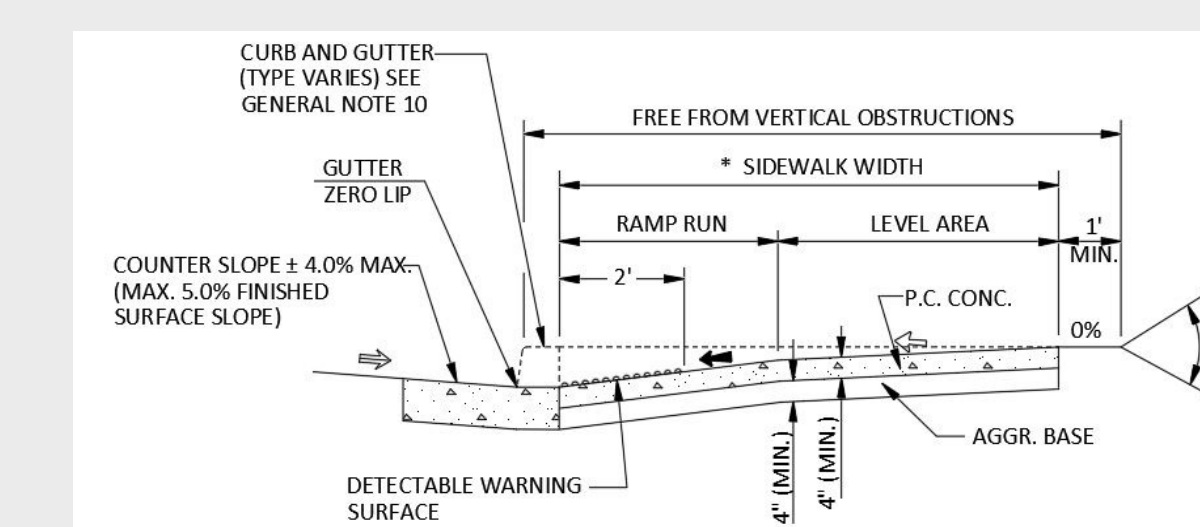
- Sidewalks and curb ramps must be ADA compliant. Sidewalks will have a maximum 5' width with a walking slope below 5%.
- Intersection will become a Stop-Controlled intersection with restriped crosswalk markings.
- Added angular parking spots to parking lot with the roadway width expansion to accommodate addition parking spaces.



Proposed Transportation Plan



Curb Ramp (1) Plan View



Curb Ramp (1) Detail

## WATER RESOURCES

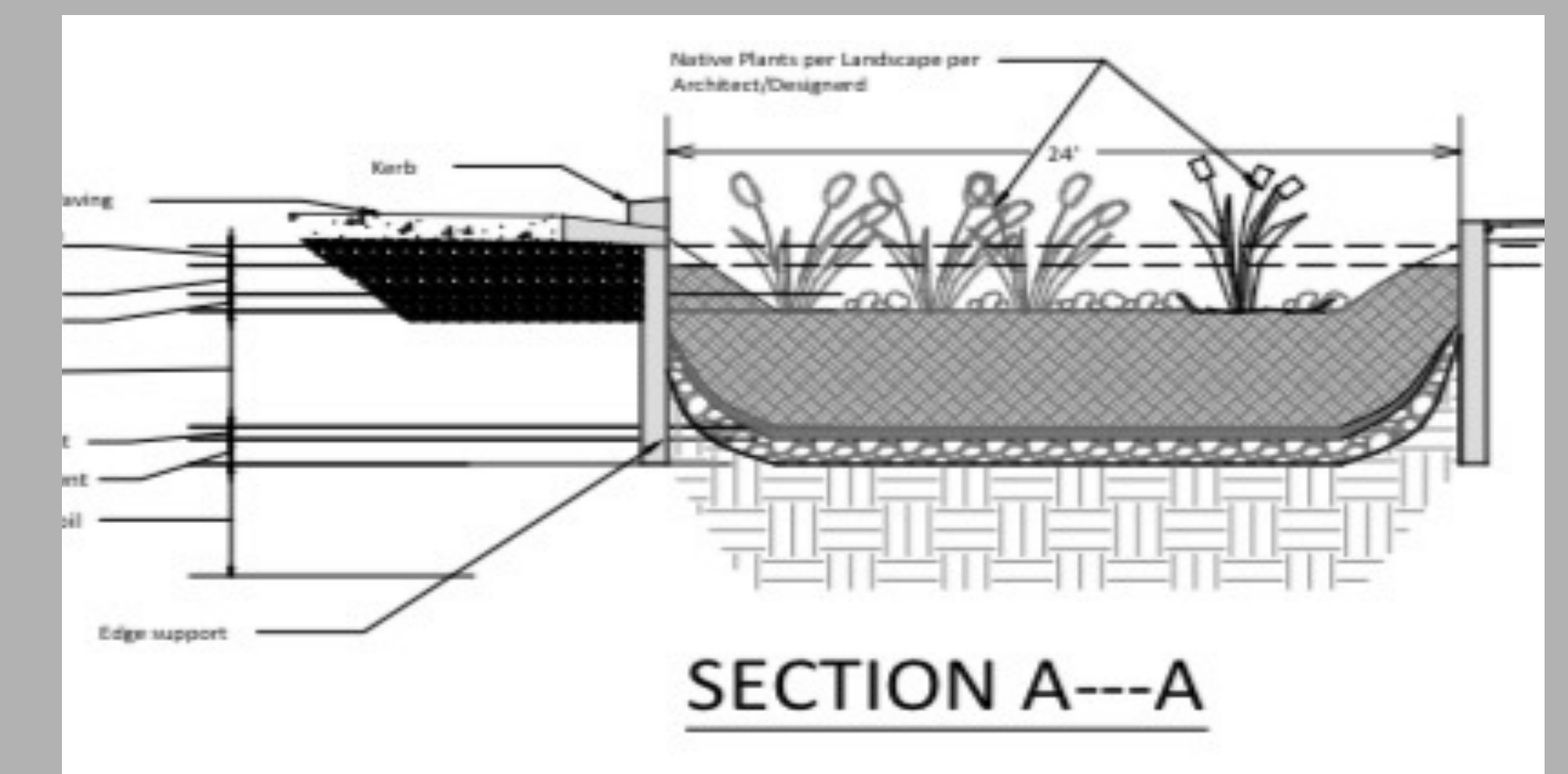
- New impervious areas increase stormwater runoff.
- All new stormwater runoff needs to be collected, detained, and released.
- City, county, and state laws govern stormwater collection, detention and discharge.
- Peak rainfall intensity and runoff for Mill City was used to size all new stormwater infrastructure.

## Catch Basin Design:

- Pre-fabricated catch basin with contaminate filtration
- Routes water from the crowned parking lot into the underground detention basin
- Installation allows for easy maintenance and minimal disruptions to the park

## Rain Garden Design:

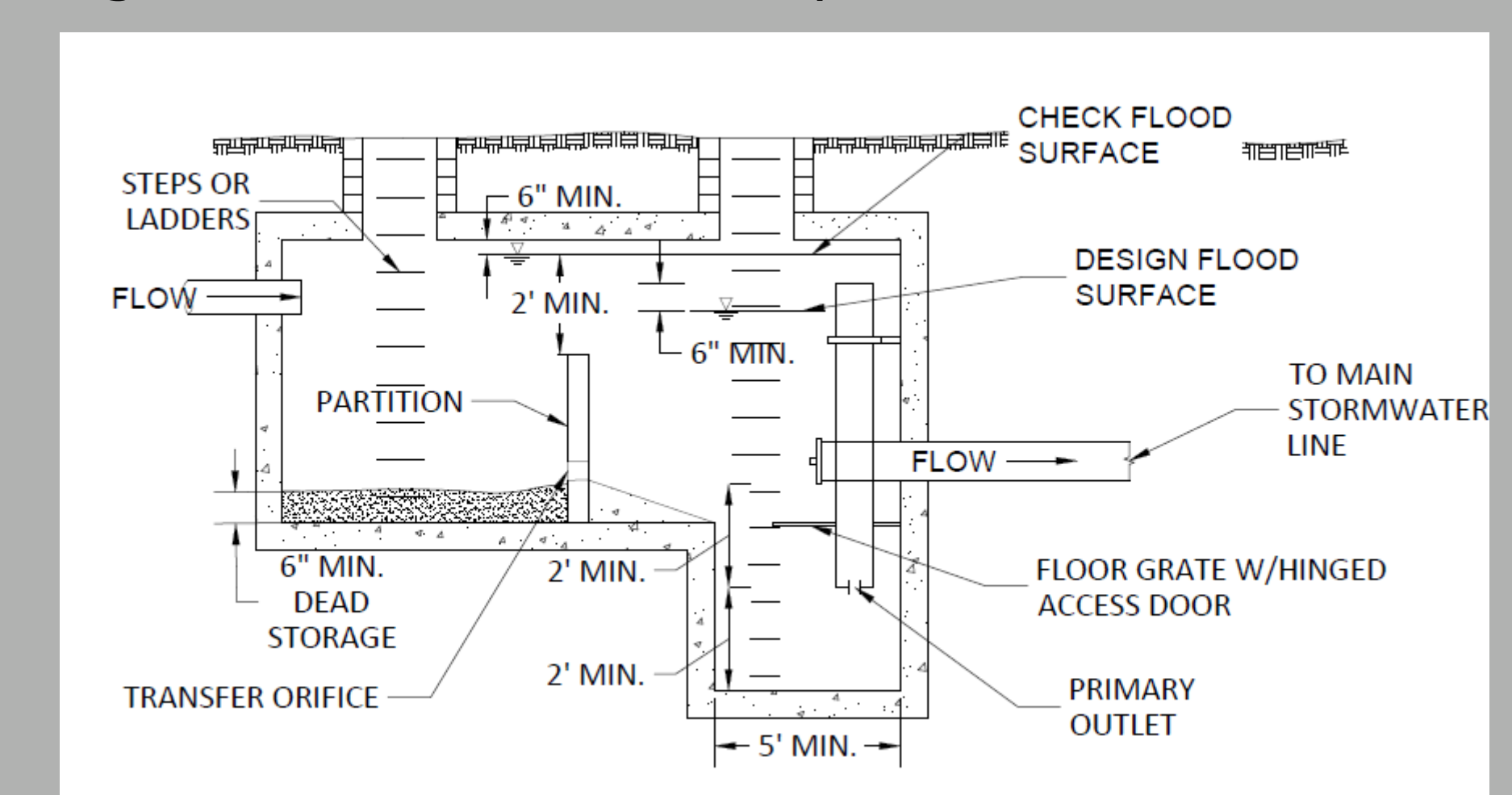
- The rain garden is designed to provide filtration for particulates, oil, and other contaminants in stormwater runoff.
- The rain garden provides great aesthetics for the park.



Proposed Rain Garden

## Detention Basin Design:

- Detention basins detain stormwater to reduce stormwater discharge during storms.
- All water is released from detention basins after storm events.
- Detention basins must detain all the water generated from new impervious surfaces.



Proposed Detention Basin