

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

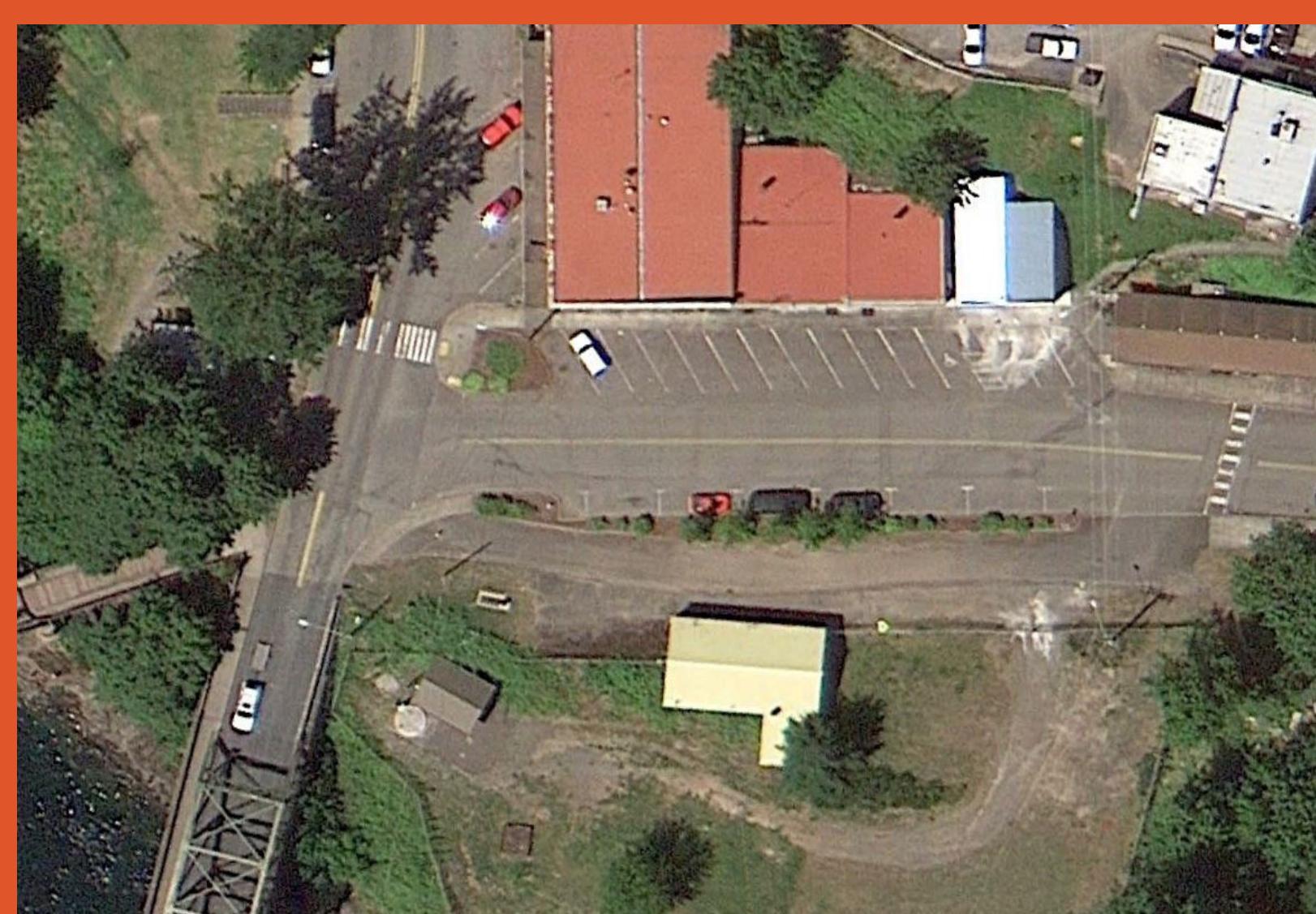
- ADA compliant Sidewalks and Curbs
- Intersection Design

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

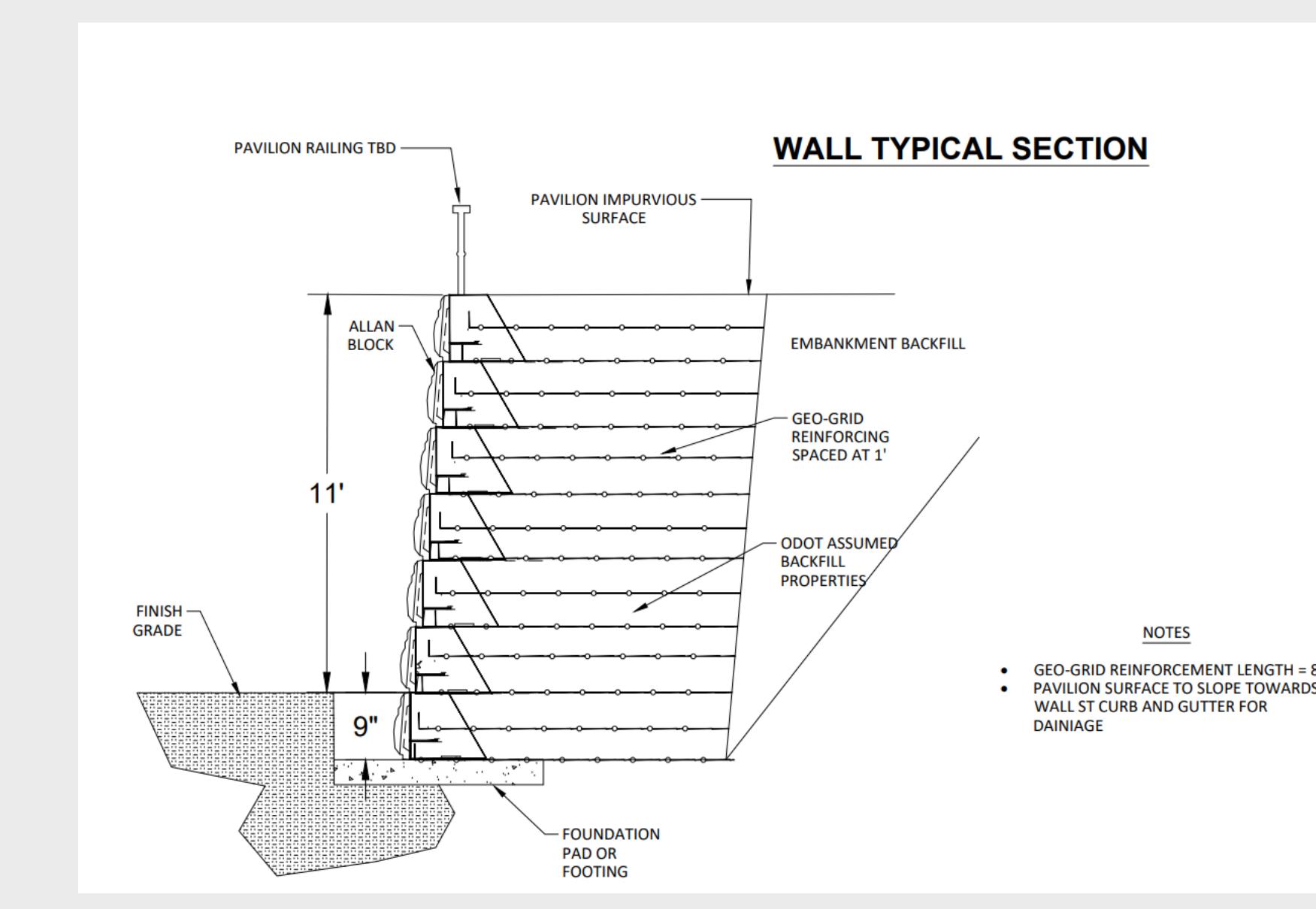
LOCATED 30 MILES EAST OF SALEM, OR



(Keller Associates)

GEOTECHNICAL

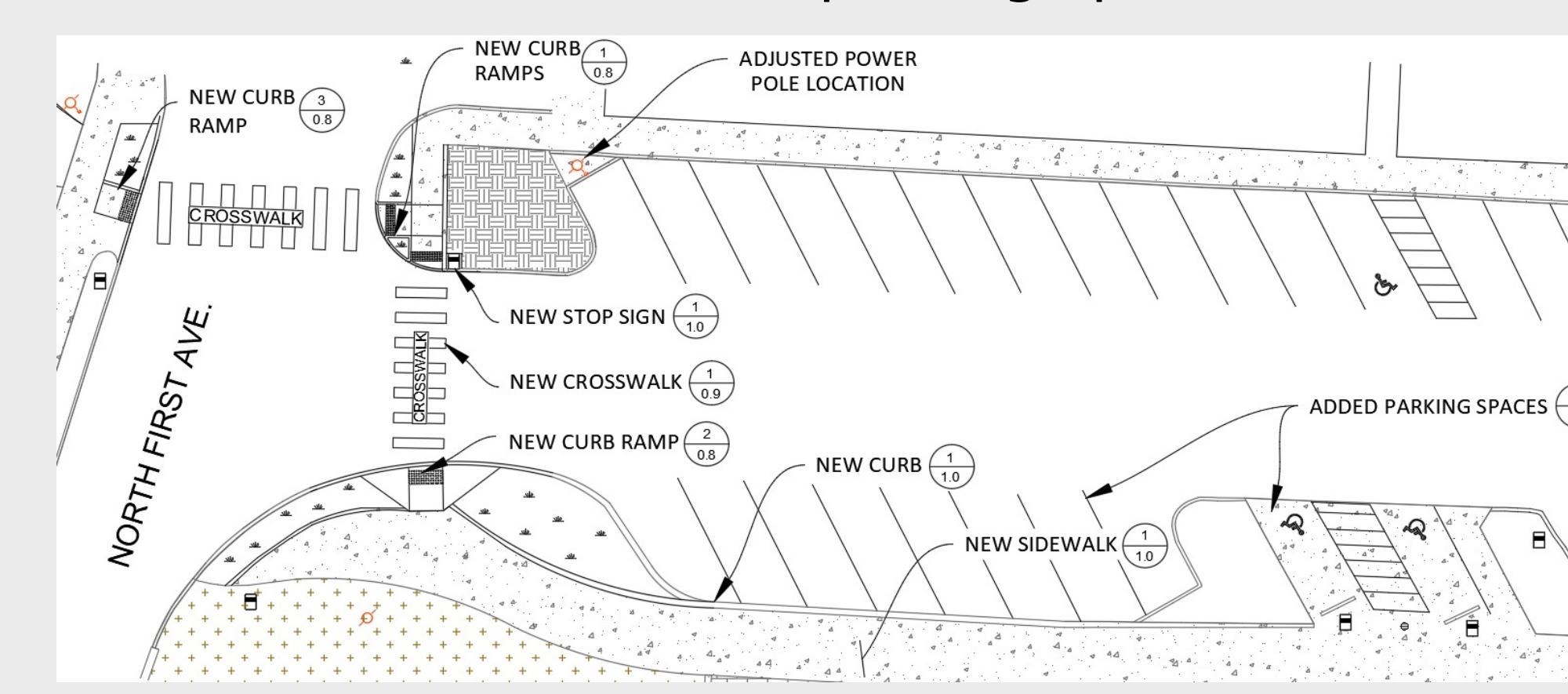
- A retaining wall is needed on our project site to run along Wall Street to the south. The wall will be at a maximum of 11ft tall and will support the new event pavilion
- Soil conditions field study was performed in early 2023 by GeoEngineers Inc. to determine soil type, groundwater height, and aggregate 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



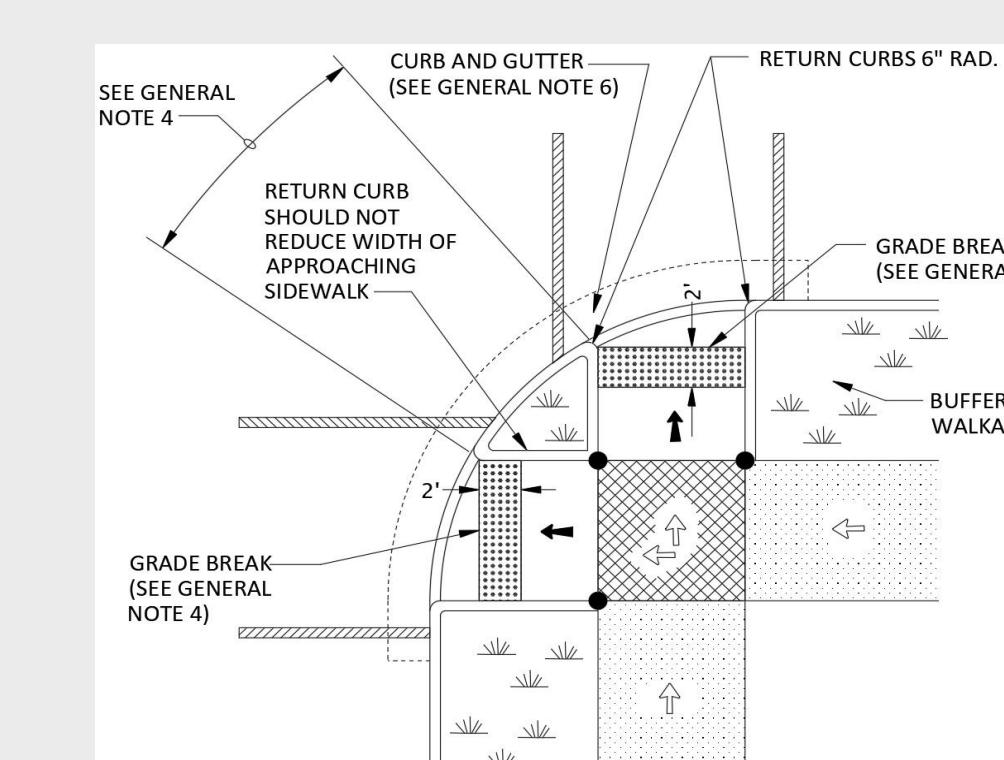
MSE Wall Final Design

TRANSPORTATION

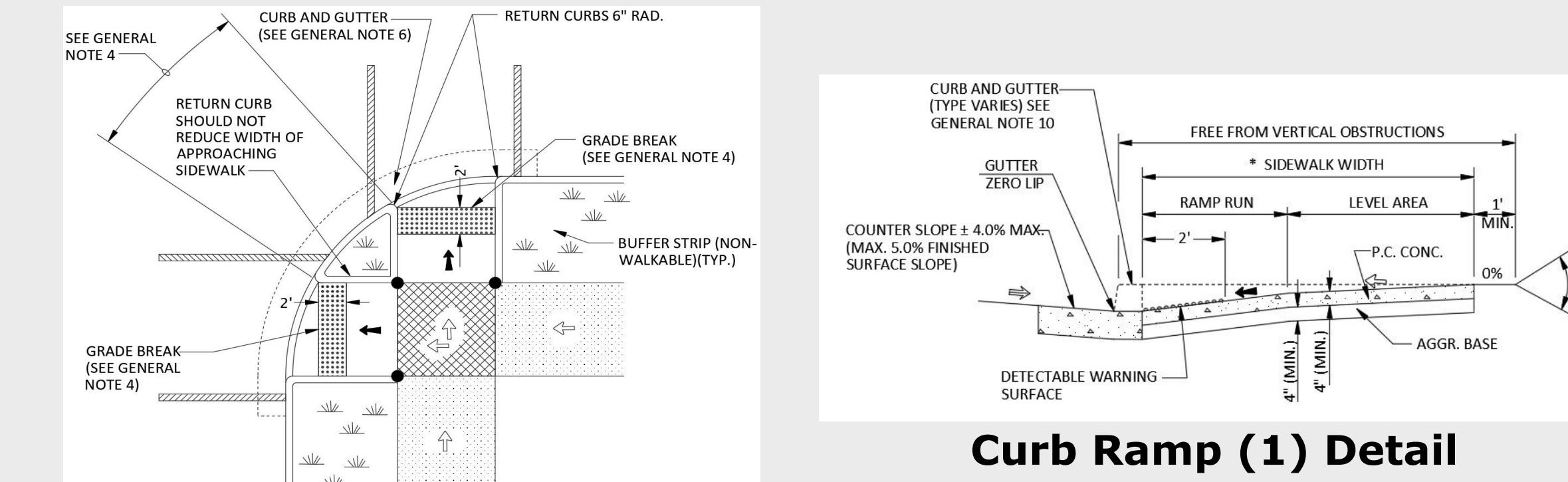
- Sidewalks and curb ramps must be ADA compliant. Sidewalks will have a maximum 5' width with a walking slope below 5%.
- Intersection will become a Stop-Controlled intersection with restriped crosswalk markings.
- Added angular parking spots to parking lot with the roadway width expansion to accommodate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



Proposed Transportation Plan



Curb Ramp (1) Plan View



Curb Ramp (1) Detail

WATER RESOURCES

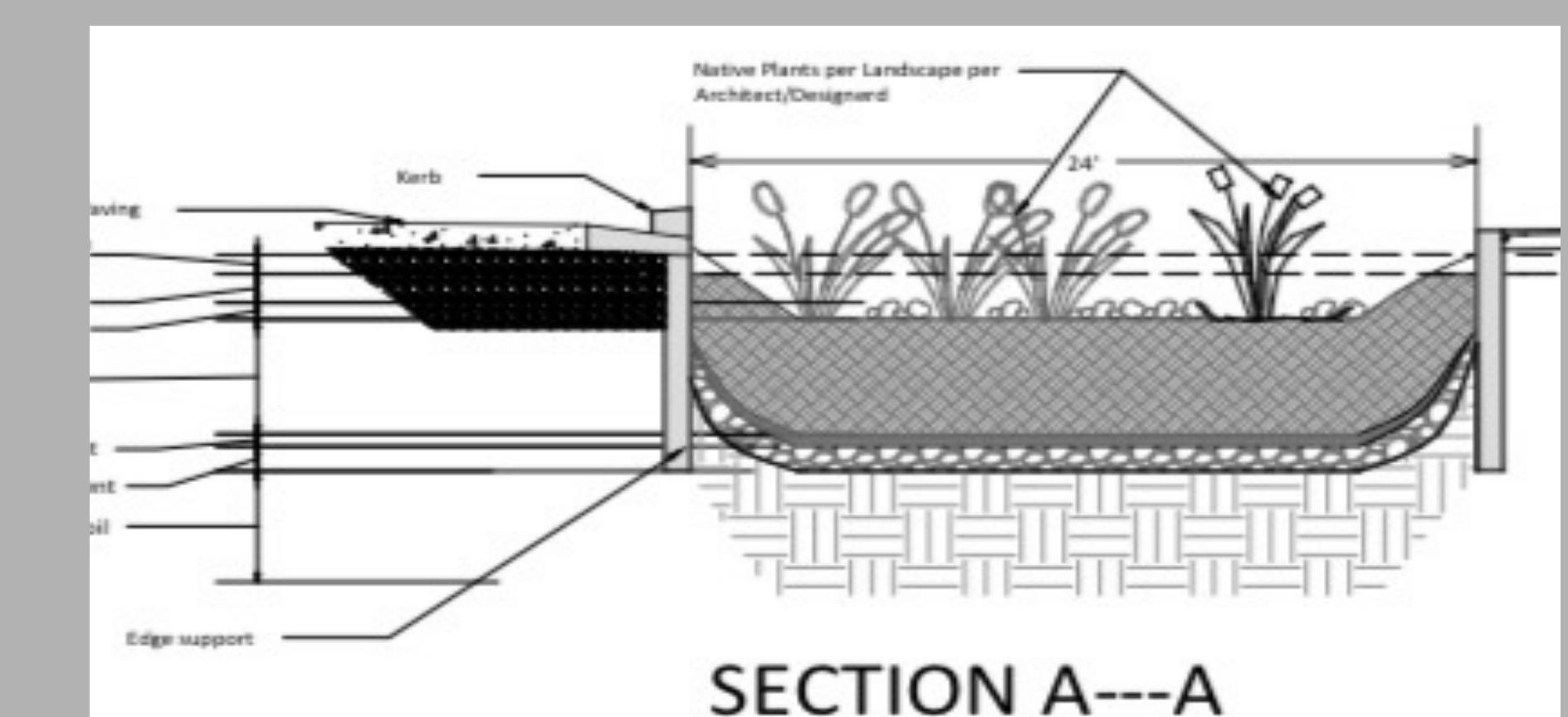
- New impervious areas increase stormwater runoff.
- All new stormwater runoff needs to be collected, detained, and released.
- City, county, and state laws govern stormwater collection, detention and discharge.
- Peak rainfall intensity and runoff for Mill City was used to size all new stormwater infrastructure.

Catch Basin Design:

- Pre-fabricated catch basin with contaminant 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.

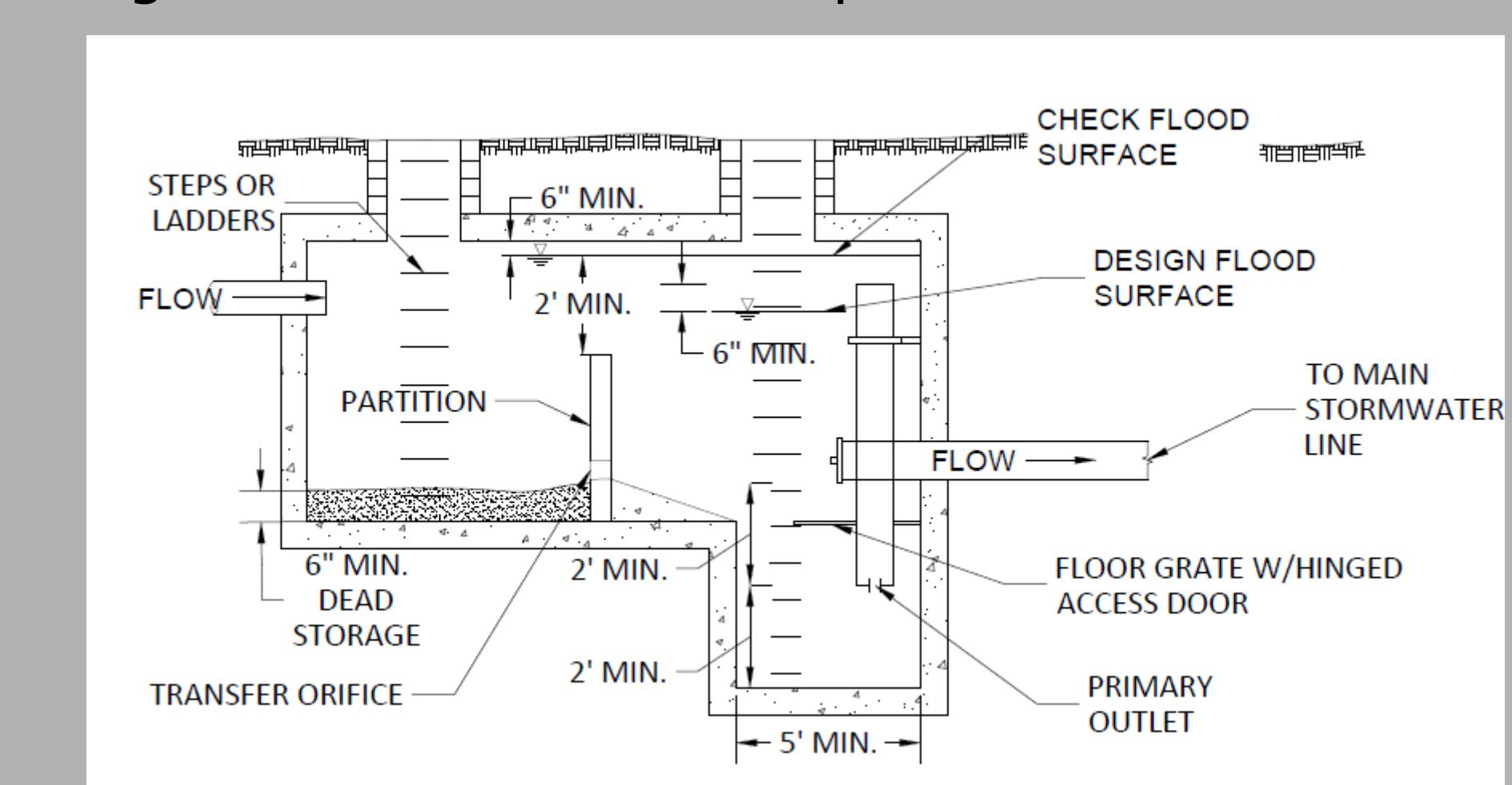


SECTION A---A

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