

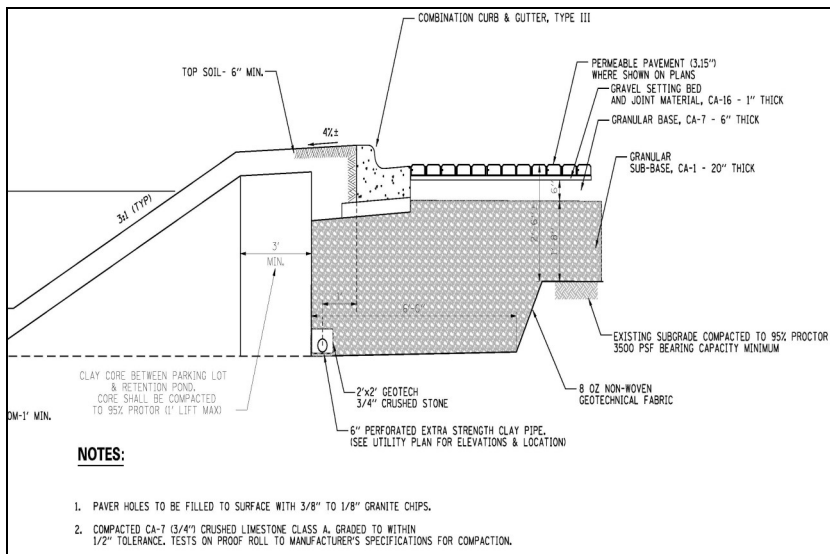
33RD WARD YARD PUBLIC WORKS FACILITY—CHICAGO

Client: DLK Civic Design

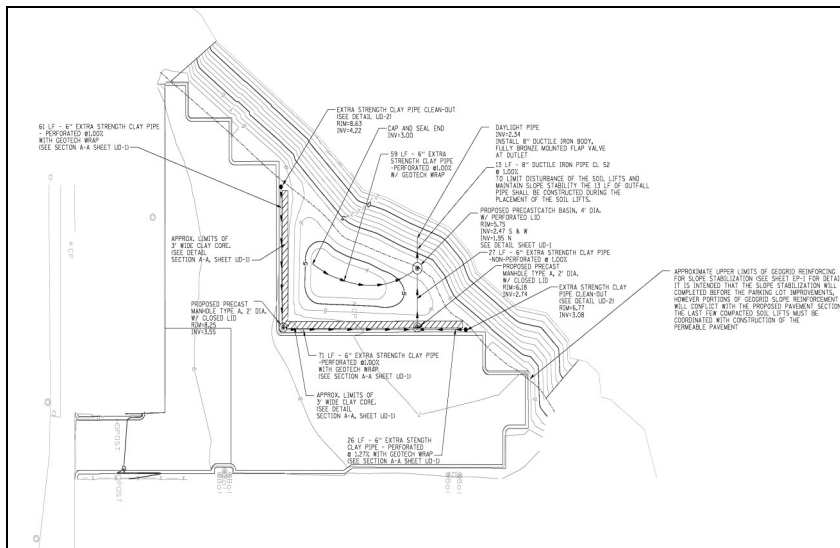
The 33rd Ward public works yard is located along the Chicago River. Erosion of the river bank had left precarious embankment slopes placing portions of the yard in danger of collapse. The 33rd Ward wished to stabilize the bank to prevent further erosion and replace the existing deteriorated parking lot while concurrently setting a precedent for Best Management Practices.

Rempe-Sharpe

- ◆ Documented existing conditions topographical survey
- ◆ Prepared civil grading, utility design, erosion control and details
- ◆ Prepared structural design, civil specifications, stormwater management design and report, and restrictor sizing
- ◆ Prepared City of Chicago stormwater permitting
- ◆ Prepared engineer's estimate of probable construction cost



Critical Details to Resolve Stormwater Issues



River Embankment Stabilization Plan

Rempe-Sharpe proposed riverbank stabilization design utilizing "Green" process of 1 foot high soil lifts wrapped in geotechnical fabric enhanced with natural plantings in lieu of structural practices. Porous permeable pavers, porous stone base and under drain system were utilized for all parking lot areas. All stormwater runoff was treated utilizing a naturalized sedimentation and detention basin prior to discharge to the Chicago River. Created standard (now utilized by the City of Chicago) for all North Branch of the Chicago River shoreline and embankment restoration projects.

Construction Estimate: \$4,750,000.00

REFERENCE
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