



## LOVES PARK CREEK

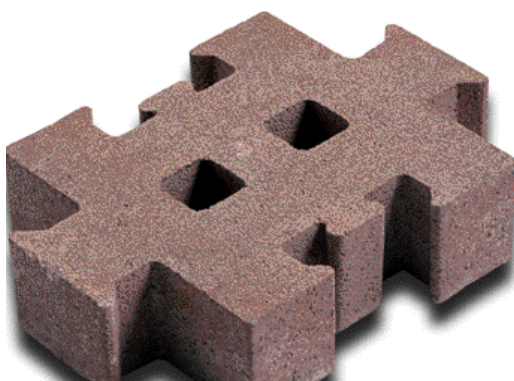
LOVES PARK, ILLINOIS

Engineer: **U.S. ARMY OF CORPS OF ENGINEERS  
ROCK ISLAND DISTRICT**

Owner: **CITY OF LOVES PARK**

General  
Contractor: **SJORSTROM & SONS**

Application: **STORM WATER CONVEYANCE CHANNEL**



**CONLOCK II™** With the Conlock II, each individual grid exhibits two interlocking ears and two interlocking sockets shaped to allow positive interlocking of all grids within the matrix. Unlike other ACB systems, the Conlock II system exhibits a continuous interlock and co-planar surfaces when encountering most all grade contours (such as; domes, depressions or channel constrictions).

# LOVES PARK CREEK CASE STUDY

Loves Park Creek is an open-channel drainage and storm water conveyance system exhibiting discharges that range from a trickle to high velocity deep flows. The channel meanders through industrial and residential areas threatening residential property and municipal playgrounds with its highly erosive forces. The flows typically carry high sediment loads depositing them along numerous areas throughout the channel. These sediment deposits created a multitude of hydraulic problems and diminished the channel's capability to rapidly convey storm water thus causing severe flooding. Sediment deposits were normally dealt with by periodically excavating the channel; however, without a hard surface floor to run equipment on, excavation of sediments was often difficult and sometimes infeasible.

In the past, some portions of Loves Park Creek were hard surfaced by use of cast in place concrete. Although the concrete proved to be extremely effective in providing a load-bearing surface to support sediment clean out equipment (skidsters and small end loaders), homeowners were not pleased with the aesthetics. As the concrete aged and freeze-thaw cycle damage became evident, cracking and heaved slabs became more common. Property owners wanted a solution that would not turn their community into a concrete jungle or dumping ground for rubble and rock. The City of Love's Park and residents sought a treatment that provides:

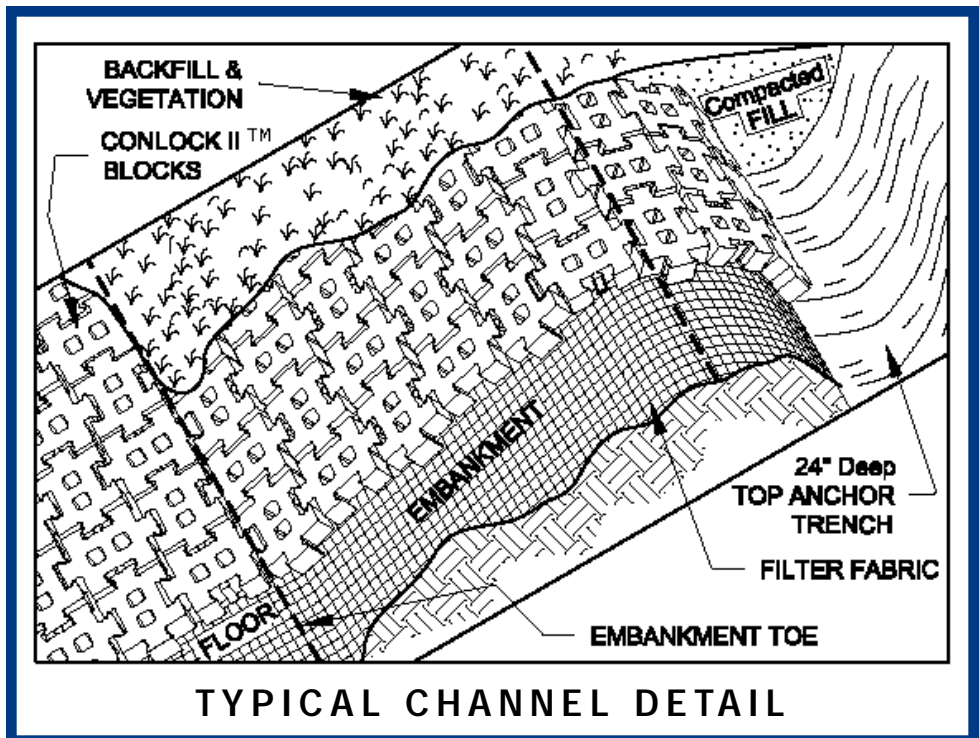
- Erosion Control
- Natural Aesthetic Beauty
- Reduction of Sediment Deposits
- Resistance to Damage from Freeze-thaw heaving.

The U.S. Army Corps of Engineers—Rock Island District, were charged with the task and came up with the optimum solution - Interlocking Articulated Concrete Blocks (IACBs) that could be vegetated. Stringent specifications were written and the bid process proved the HydroPave CONLOCK II system to be the most cost effective. Over 274,000 square feet of CONLOCK II 6VM-30 block were installed on two separate phases of the project. Contractor crews experienced installation rates up to 75 sq. ft. per man-hour. Competitively, the Conlock II system saved thousands of dollars over other conventional systems.

All of HydroPave Erosion Control Systems' exhibit variable hydraulic design features so as to allow for a more economically engineered system.

Guidelines for the selection and design of the appropriate ACB product are provided by the Federal Highway Administration (FHWA) publication—Hydraulic Engineering Circular 23. The publication presents a procedure to develop hydraulic design criteria given the performance data for an ACB such as the Conlock I & II products' hydraulic stability testing performed by the St. Anthony Falls Hydraulic Laboratory. Both documents are available in the HydroPave Technical Binder.

HydroPave's experienced technical staff offers design programs, preliminary design engineering assistance and site specific CAD details installation drawings. HydroPave has over 18 years of field experience in designing and installing Conlock ACB block systems worldwide. Technical Binders, CAD files and Design Programs are available on request.



**CALL OR EMAIL US TODAY!**

HYDROPAVE PRODUCTS ARE AVAILABLE NATIONWIDE AND FROM THESE PAVESTONE® FACILITIES:

- |                                       |                                  |
|---------------------------------------|----------------------------------|
| • Austin, TX (512) 346-7245           | • Lafayette, LA (318) 234-8312   |
| • Chattanooga, TN (423) 855-1899      | • Las Vegas, NV (702) 221-2700   |
| • Cincinnati, OH (800) 474-8641       | • Nashville, TN (615) 837-8300   |
| • Dallas/Ft. Worth, TX (817) 481-5802 | • New Orleans, LA (504) 882-9111 |
| • Denver, CO (303) 287-3700           | • Phoenix, AZ (602) 257-4588     |
| • Houston, TX (281) 391-7283          | • San Antonio, TX (512) 558-7283 |
| • Kansas City, MO (816) 524-9900      |                                  |

**1.800.EROSION**

**1.800.376.7466**

[info@hydropave.com](mailto:info@hydropave.com)



MEMBER, INTERNATIONAL  
EROSION CONTROL ASSOCIATION