



ENGINEERING FOR
HYDROLOGY & HYDRAULICS

WALTER P. MOORE

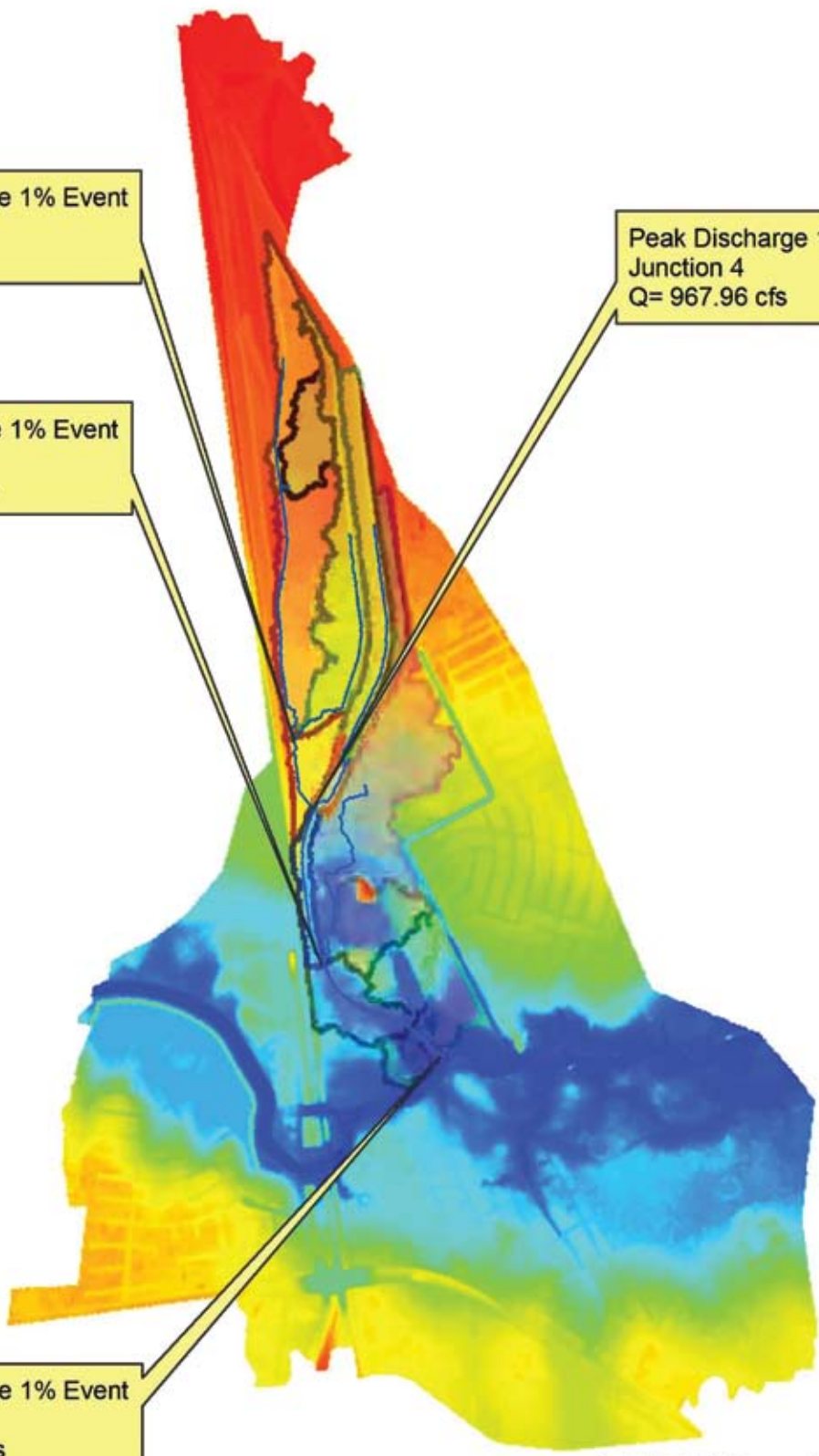


Peak Discharge 1% Event
Junction 2
Q= 639.79 cfs

Peak Discharge 1% Event
Junction 4
Q= 967.96 cfs

Peak Discharge 1% Event
Junction 5
Q= 1311.95 cfs

Peak Discharge 1% Event
Junction 8
Q= 1550.34 cfs



Legend

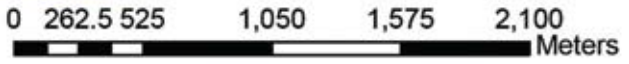
Elevation (feet)
Value

High : 137.915405
Low : 53.355370

— K118-00-00 stream

K118 Catchments
Catchment Name

- K118-C1
- K118-C10
- K118-C11
- K118-C12
- K118-C13
- K118-C14
- K118-C15
- K118-C16
- K118-C17
- K118-C2
- K118-C3
- K118-C4
- K118-C5
- K118-C6
- K118-C7
- K118-C8
- K118-C9



CATCHMENTS OF K118-00-00 STREAM: PEAK DISCHARGES AT KEY HYDROLOGIC JUNCTIONS

Hydrology & Hydraulics

Walter P Moore's Hydrology & Hydraulics services provide innovative engineering solutions for floodplain and watershed management. The results are cost-effective, environmentally responsible and optimally designed to meet long-term needs.

Our Water Solutions

We create solutions for floodplain management, storm water management, erosion and scour mitigation and flood protection. They result from our collaboration with owners and other stakeholders, including the design team, citizens, agency representatives and others.

Our H&H Services

Channels

- Bridge Scour Remediation
- Culverts
- Drainage Design and Channel Improvement
- Sediment Transport and Erosion Control
- Flow Control Structures

Flooding

- Flood Alert Systems
- Flood Control Structures
- Floodplain Management
- Floodplain Mapping

Land Development

- Detention and Retention Basins
- Storm Sewers and Network Analysis
- Storm Water Management

Watersheds

- Capital Improvement Plans
- Distributed Hydrologic Models
- Master Planning
- Stream Restoration



SPRING CREEK DIGITAL ELEVATION MODEL
COLLEGE STATION, TEXAS

Our H&H Technology

Our engineering is combined with current technologies—geographic information systems, steady and unsteady state modeling of surface, channel and pipe flow, radar-derived rainfall data—to offer effective solutions to challenging drainage issues. Our tools and technology include:

- Computer Aided Engineering Analysis, Design (e.g., MIKE URBAN, MIKE 11, XP-SWMM, MOUSE, EPA-SWMM, EPANET)
- Hydrologic & Hydraulic Modeling Software (e.g., HEC-RAS, HEC-HMS)
- Specialized Applications of Geographic Information Systems (GIS) (e.g., ArcHydro Data Model, HEC-GeoRAS)

Our designs that conserve resources and make other environmental improvements may earn credit toward Leadership in Energy and Environmental Design (LEED®) certification.

What We Do

Founded in 1931, Walter P Moore is headquartered in Houston, Texas, with more than 400 professionals in offices from coast to coast. Our civil, traffic, transportation, structural and structural diagnostics engineers and parking consultants help clients turn their ideas into reality. We design infrastructure for urban areas, healthcare and education facilities, corporate campuses, airports, sports stadiums, convention centers and entertainment centers. Our clients are government agencies, architects, corporations, institutions, developers and contractors. If all of our work with them were put together, it would form a vibrant city with every functional and discretionary amenity, great mobility, superior disaster protection and a plan for the future. A city that works because *our solutions work*.



IGLOO WAREHOUSE AND PRODUCTION FACILITY
HOUSTON, TEXAS

WALTER P MOORE

71ST AND GLENWOOD PRELIMINARY ENGINEERING STUDY *OVERLAND PARK, KANSAS*
CIBALO CREEK STUDY *SAN ANTONIO, TEXAS*
CITY OF HOUSTON THEATER DISTRICT FLOOD PROTECTION *HOUSTON, TEXAS*
DROP STRUCTURE REPLACEMENT, HARRIS COUNTY FLOOD CONTROL DISTRICT *HARRIS COUNTY, TEXAS*
DUCK CREEK EROSION CONTROL PHASE III *RICHARDSON, TEXAS*
ELDRIDGE OAKS NO RISE STUDY *HOUSTON, TEXAS*
ERICKSON EAGLE TRACE DEVELOPMENT DETENTION AND BUFFALO BAYOU IMPACT STUDY *HOUSTON, TEXAS*
FAULKEY GULLY STUDY *HOUSTON, TEXAS*
GREEN OAKS DRAINAGE STUDY *FORT WORTH, TEXAS*
GREEN TRAILS LETTER OF MAP REVISION (LOMR) *FORT WORTH, TEXAS*
HARDY TOLL ROAD BRIDGE SCOUR REMEDIATION *HOUSTON, TEXAS*
HARRIS GULLY FLOOD STUDY, HARRIS COUNTY FLOOD CONTROL DISTRICT ON-CALL SERVICES *HARRIS COUNTY, TEXAS*
KING'S HARBOR FLOODWAY STUDY *HOUSTON, TEXAS*
M.D. ANDERSON BASTROP RESEARCH CAMPUS WATER HAMMER STUDY AND WATER DISTRIBUTION SYSTEM *BASTROP, TEXAS*
MAYDE CREEK TRIBUTARY CHANNEL IMPROVEMENT DESIGN *HOUSTON, TEXAS*
SPRING CREEK HYDROLOGIC AND HYDRAULIC ANALYSIS AND BRIDGE DESIGN *COLLEGE STATION, TEXAS*
SYSCO OFFICE CAMPUS DUAL-USE DETENTION POND *HOUSTON, TEXAS*
TEXAS CHILDREN'S HOSPITAL & METHODIST HOSPITAL CAMPUSES REGIONAL DETENTION DESIGN *HOUSTON, TEXAS*
TEXAS CHILDREN'S HOSPITAL FLOOD PROTECTION PROGRAM *HOUSTON, TEXAS*
 AWARD FOR ENGINEERING EXCELLENCE 2003 - TEXAS COUNCIL OF ENGINEERING COMPANIES
TEXAS MEDICAL CENTER FLOOD MITIGATION STUDY *HOUSTON, TEXAS*
TWIN RIVERS HYDRAULIC STUDY *RICHARDSON, TEXAS*
UNIVERSITY OF TEXAS MEDICAL SCHOOL PERIMETER BERM *HOUSTON, TEXAS*
 AWARD FOR ENGINEERING EXCELLENCE 2007 - TEXAS COUNCIL OF ENGINEERING COMPANIES

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