



# APPLICATION BRIEF

## GPS Laser Offset Mapping

### Project Location:

17th Street and London Ave.  
Outfall Canals in Orleans Parish, Louisiana

### Project and Purpose:

To complete an inventory for the Army Corps of Engineers of potential cultural and natural encroachments located in the backyards of properties that abut the 17th Street / London Avenue canals. The project covered approximately 7 miles with 405 parcels.



### Scope of Work Methodology and Team Members:

HDR Engineering provided the Mobile GIS/GPS technical support in the using of ESRI ArcPad 7 software customized for the inventory effort; GIS data layers for the project area including parcel data, current aerial photography and levee toe information; as well as GIS training, expertise and quality control during conduct of the inventory survey. New offset tools and the laser rangefinder support in ArcPad 7 was used to keep the field collection teams from entering the backyards in the neighborhoods that were to be surveyed.



R. Christopher Goodwin & Associates, Inc. provided the personnel for the field data collection.

### Combination of Hardware:

Trimble's GeoXT Handheld units, Laser Technology's TruPulse 200B laser rangefinders and digital cameras.

### Software:

ESRI's ArcPad 7, Trimble's GPS Correct for ArcPad, ESRI's ArcGIS 9.1 and Trimble's GPS Analyst for ArcGIS

### Project status:

The project was successful and completed within 3 weeks due to the laser interface expediting the data collection process.

