

Scope of Work

Phase I Environmental Site Assessment Lakefront Levee (LPV101-104), Orleans East Bank, 17th Street Canal to Inner Harbor Navigation Canal Orleans Parish

INTRODUCTION

Due to severe damages from Hurricane Katrina, the Corps of Engineers is rehabilitating and improving the flood protection system of southeast Louisiana. As part of this work, The Lake Pontchartrain and Vicinity Hurricane Protection Levee, Lakefront Levee, Orleans East Bank from the 17th Street Canal to the Inner Harbor Navigation Canal will be enlarged with compacted fill to authorized grade (see attached vicinity map, Drawing #1). The footprint of this enlarged levee will not exceed the limits of the existing right-of-way at this time; however, when this levee is eventually brought to the 100-year flood elevation, the footprint will likely increase outside of the existing right-of-way, by as much as 1000 feet on either side of the levee crown. On one reach, there will be the possibility of a realignment, described in the supplemental information below.

A Phase I Environmental Site Assessment (ESA) will be performed to investigate the potential presence of hazardous, toxic, or radioactive waste (HTRW) in the vicinity of the proposed construction in the vicinity of the proposed construction and future levee enlargement. The Phase I will be conducted in compliance with ASTM Standard 1527-05, "Standard Practice for Standard Practice Environmental Site Assessments: Phase I Environmental Site Assessment Process"(November 1, 2005). The focus of the Phase I ESA will be to review existing and past historical information regarding the site. The Phase I ESA will document the past history of the site to determine the potential presence of any HTRW, in order to avoid any areas of concern.

SUPPLEMENTAL INFORMATION

Possible realignment during Phase II (100 year elevation): A portion of the LPV104 levee may be moved to a new alignment as shown in attached Drawing #2. Phase I ESA should be comprehensive enough to provide HTRW clearance for either alignment.

TASKS

The Contractor shall conduct the following Tasks in the execution of the Phase I ESA.

Task 1: Environmental Database Search

The Contractor shall review past environmental databases, as stipulated within the ASTM standards. At a minimum, the Contractor shall search the following databases, as appropriate for the property, to help determine if hazardous sites or serious local environmental problems may exist on or immediately adjacent (see radius specifications) to the property:

- * The National Priorities List (1 mile radius);

- * Delisted National Priorities Lists (½ mile radius);
- * The Comprehensive Environmental Response, Compensation, and Liability Information System (½ mile radius);
- * The Comprehensive Environmental Response, Compensation, and Liability Information System No Further Remedial Action Planned Database (½ mile radius);
- * The Solid Waste Landfills/Facilities Database (½ mile radius);
- * The Emergency Response Notification System and Hazardous Materials Incident Reporting System (¼ mile radius);
- * The Resource Conservation and Recovery Information System (½ mile radius for treatment, storage or disposal (TSD) facilities and ¼ mile radius for generators);
- * Any state listing of registered and leaking underground storage tanks (¼ and ½ mile radii, respectively);
- * The Louisiana Inactive and Abandoned Sites List (1 mile radius); and,
- * Louisiana Department of Natural Resources Oil and Gas Wells Database (1 mile radius).

In addition, the Contractor shall conduct a review of the site history, background information and preliminary data available from the State of Louisiana and/or other sources, including an environmental regulatory database search report prior to conducting site inspections. The contractor shall also verify property boundaries and past ownerships. No title search will be required. The review shall be conducted to help establish the type of activities that were previously conducted on the property. Standard historical sources that are reasonably ascertainable, such as fire insurance maps, USGS topographic maps, historical aerial photographs, city directories, and building department records shall be reviewed.

Task 2: Site Inspection/Interviews

The contractor shall conduct interviews with individuals having past experience and knowledge of the site, prior to conducting a detailed site inspection. The inspection shall include the review of available historical aerial photographs of the site and surrounding properties. The site inspection shall not be limited to the property under consideration, but the adjacent properties shall also be inspected based on legal access. Site plans and topographic maps, where available, shall also be reviewed. The site inspection shall include an inventory of former chemical usage and waste generated on the site (if available); information on aboveground and underground storage tanks; available Superfund Amendments and Reauthorization Act (SARA) Title III reporting information; environmental permitting information and permits from local,

state, or federal agencies; engineering reports and surveys relevant to environmental issues; records of claims, litigation, spills, noncompliance, complaints, etc., related to environmental practices; environmental monitoring data, including groundwater and soil testing, local geology and hydrogeology in the vicinity of the site; and data on electrical equipment containing polychlorinated biphenyl (PCB) fluids. Interviews shall be conducted with knowledgeable persons regarding site history. This may include, but is not limited to current and past owners of the property.

Task 3: Draft Report Preparation

A draft report shall be prepared documenting the results of the research, interviews, on-site inspections, and other findings. The report shall provide an overall assessment of past activities and recognized environmental conditions, if any. If additional investigations are warranted, the report shall describe, in general, the activities recommended along with a time and cost estimate for those activities. The draft report shall be provided to the Corps of Engineers for review no later than October 23, 2006.

Task 4: Review Draft Phase I ESA Report

The Corps of Engineers shall be given the opportunity to review the draft Phase I ESA Report to ensure compliance with the Scope of Work and to ensure all tasks and activities are addressed in the report. The Corps shall provide the contractor a list of all comments requesting clarification and resolution in the final report by October 27, 2006

Task 5: Final Report /Distribution and Formal Presentation

Upon receipt of all comments, the Contractor shall make all necessary changes to the report. The Contractor shall provide 3 original copies of the final report with one copy of the report on compact disc (CD) to the Contracting Officer by October 31, 2006.

3. Project Schedule

The draft Phase I ESA should be submitted by October 23, 2006. The Corps will review the draft report and provide the contractor a list of all comments requesting clarification and resolution by October 27, 2006. The contractor will then make any necessary changes to the report and produce 3 final copies of the report and one copy of the report on CD, by October 31, 2006. Neither party may adjust or otherwise change the schedule without prior written coordination and agreement by both parties.

Drawing #1

Overview of all projects



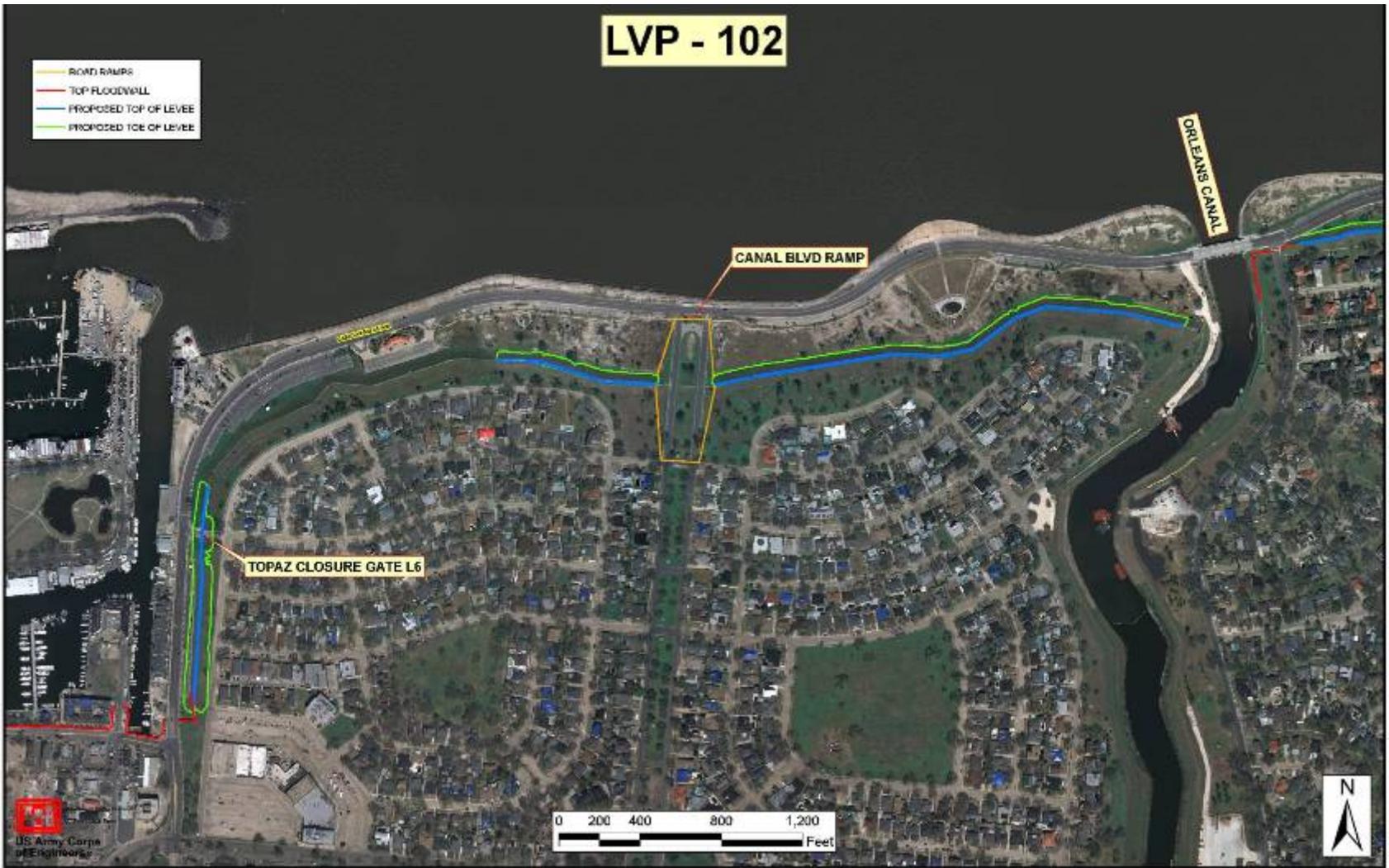
LPV - 101

- ROAD RAMPS
- TOP OF FLOODWALL
- PROPOSED TOP OF LEVEE
- PROPOSED TOE OF LEVEE



LVP - 102

- ROAD RAMP
- TOP FLOODWALL
- PROPOSED TOP OF LEVEE
- PROPOSED TOE OF LEVEE



LVP - 103

- ROAD RAMPS
- TOP FLOODWALL
- PROPOSED TOP OF LEVEE
- PROPOSED TOE OF LEVEE



Mississippi Valley District
US Army Corps
of Engineers

0 250 500 1,000 1,500
Feet



LVP - 104 WEST

- ROAD RAMPS
- TOP FLOODWALL
- PROPOSED TOP OF LEVEE
- PROPOSED TOE OF LEVEE



LVP - 104 East

- ROAD RAMP
- TOP OF FLOODWALL
- PROPOSED TOP OF LEVEE
- PROPOSED TOE OF LEVEE



 **US Army Corps of Engineers**
Huntington Valley District
US Beachfront Team

0 200 400 800 1,200 Feet



Drawing #2: LPV 104 Possible Realignment



Blue indicates current alignment
Red indicates (approximately) possible new alignment