



# TERREBONNE PARISH HAZARD MITIGATION PLAN UPDATE

HAZARD MITIGATION PLAN UPDATE  
COMMITTEE KICK-OFF MEETING

May 22, 2014

- I. INTRODUCTIONS AND WELCOME
- II. PURPOSE, NEED, AND EXPECTATIONS
- III. PARTICIPATION STRATEGY
- IV. PLAN REVIEW
- V. CONCLUSION

- ATTENDANCE
- INTRODUCTIONS
- HAZARD MITIGATION PLAN UPDATE COMMITTEE
  - Committee Chair Person



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## What is Hazard Mitigation Planning?

Planning for any sustained action(s) taken to reduce or eliminate the long-term risk to human life and property from hazards

Mitigation=Prevention



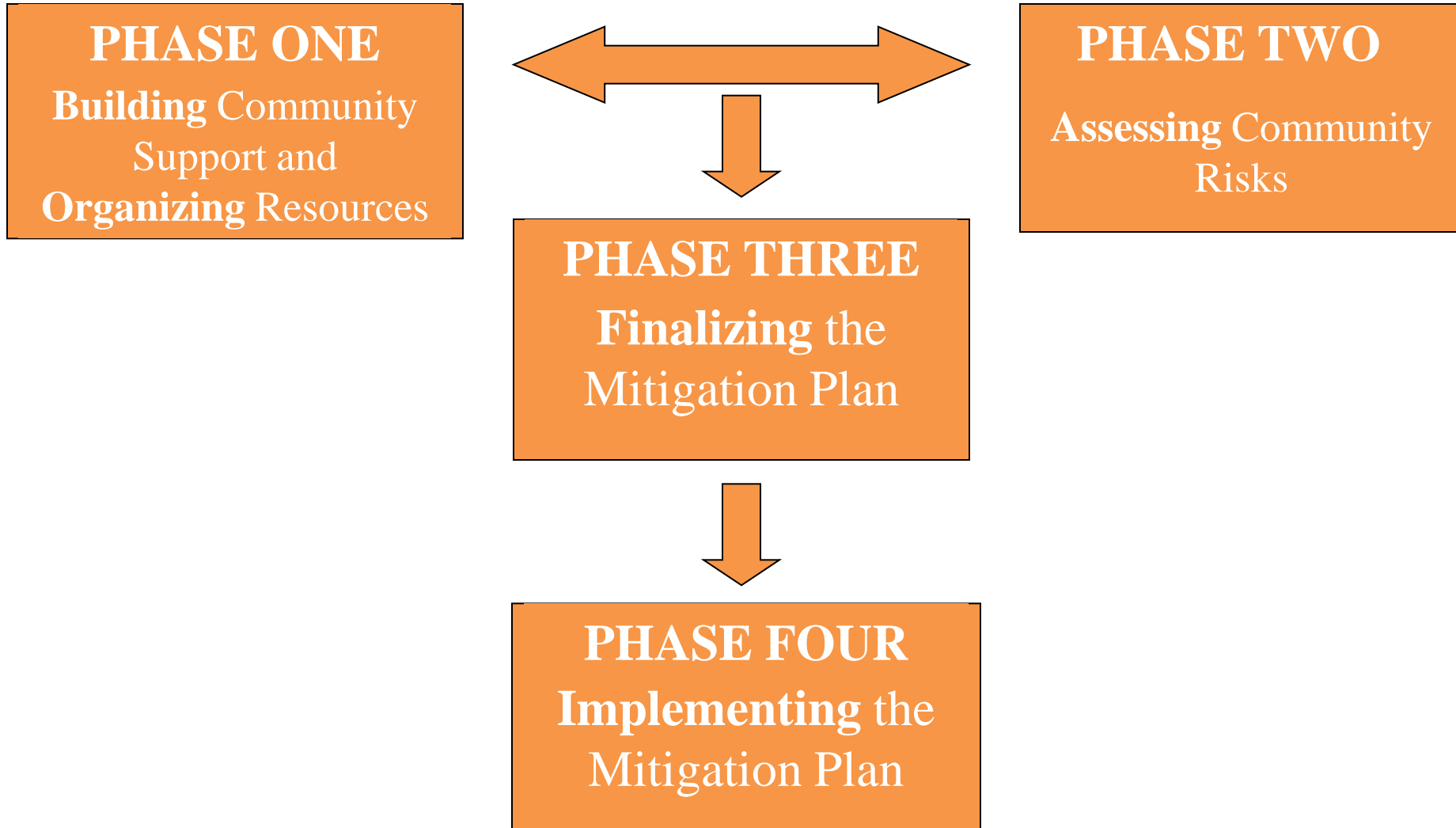
- **Hazard**—a source of **potential** danger
- **Vulnerability**—Degree of **exposure** or susceptibility to damage of an asset
- **Vulnerability Assessment**—The extent of damage that may result from a hazard event of a given intensity (50, 100 yr. flood; Cat. 1, 2, ...5 hurricane)
- **Risk**—The **estimated impact** that a hazard would have on people, services, facilities, and structures—quantifiable
- **Risk Assessment**—Process of measuring the potential loss of life, personal injury, economic injury, and property damage

- **Why “plan”?—State approach—parishes to state**
  - Establish vision and mission
  - Establish common goals
  - Incorporate the “big picture”
  - Bring many stakeholders together
  - Establish community connectivity...  
coordination and communications
  - Look at resource allocation (time, money, etc.)
  - Ensure ability to implement, monitor, evaluate,  
and modify



- **Eligibility for mitigation grant project funding**
- **Any changes in hazard identification**
- **Vulnerability analyses**
- **Local mitigation capabilities**
- **Progress made during the past five years to prevent or reduce future losses from natural hazards**

- **Past: Federal legislation funded disaster relief, recovery, and some mitigation planning**
  - Standard codes and planning were linked in same law
- **Present: Disaster Mitigation Act of 2000 (DMA 2000)**
  - -Reinforces importance of mitigation **planning before hazards occur...** to reduce the nation's disaster losses ..." (FEMA Interim Final Rule)
  - -Establishes a **pre-disaster** hazard mitigation program
  - -Creates new **requirements for** national **post-disaster Hazard Mitigation Grant Program** (HMGP)
  - -Requires states and communities **to have an approved mitigation plan in place prior to receiving post-disaster HMGP funds**



- Planning Process
- Risk Assessment
- Mitigation Strategy
- Plan Maintenance
- Additional State Requirements
- Plan Hazard Mitigation Adoption and Approval
- Hazard Mitigation Plan Deliverables



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## Participating Agencies:

**City of Houma Fire Chief**

**David Waitz Engineering & Surveying**

**Gene Milford and Associates, Inc.**

**Gulf South Engineering Associates, Inc.**

**Houma-Terrebonne Chamber of Commerce**

**Regulatory Planning Commission**

**CB&I**

**South Central Industrial Association**

**T. Baker Smith**

**Terrebonne General Medical Center**

**Terrebonne Levee and Conservation District**

**Terrebonne Parish Consolidated Government**

**Terrebonne Parish Readiness and Emergency**

**Coalition**

**Terrebonne Parish Sheriff's Office**

**Water District**



- Committee Structure
  1. Expand/Contract
  2. Steering Committee
  3. Meeting Location/Frequency?
- Developing a Plan for Public Relations & Education
- Concerns, Comments, Questions
- Other Issues?

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### Terrebonne Parish Hazard Mitigation Plan Update

September 2009



Shaw Environmental & Infrastructure, Inc.  
4171 Essen Lane  
Baton Rouge, LA 70809  
[www.shawgrp.com](http://www.shawgrp.com)



## REVIEW AND UPDATE:

### ■ THE PLANNING PROCESS

- Public comment
- Involvement in the planning process
- Incorporate appropriate existing plans

### ■ PLAN CONTENT

- Documentation of the planning process
- Risk assessment
  - Type, location, extent of all natural hazards that affect the jurisdiction
  - Jurisdiction vulnerability to the hazards, summary of each hazard and its impact on the community
    - Describe vulnerability of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas
    - Estimate of potential dollar losses

## REVIEW AND UPDATE:

### ■ HAZARD MITIGATION STRATEGIES

- Goals
- Specific mitigation actions and projects
- Action plan with prioritization

### ■ PLAN MAINTENANCE PROCEDURES

- Method and schedule of monitoring, evaluating, and updating the mitigation plan
- Process by which local government can incorporate the requirements of the mitigation plan into other planning mechanisms (comprehensive or capital improvement plans) when appropriate
- Discussion of how community will continue public participation and plan maintenance

- **HANDOUT**
- The National Flood Insurance Program's (NFIP) Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements.
  - As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions meeting the three goals of the CRS:
  - Reduce flood damage to insurable property;
  - Strengthen and support the insurance aspects of the NFIP, and
  - Encourage a comprehensive approach to floodplain management.

<http://www.fema.gov/national-flood-insurance-program-community-rating-system>



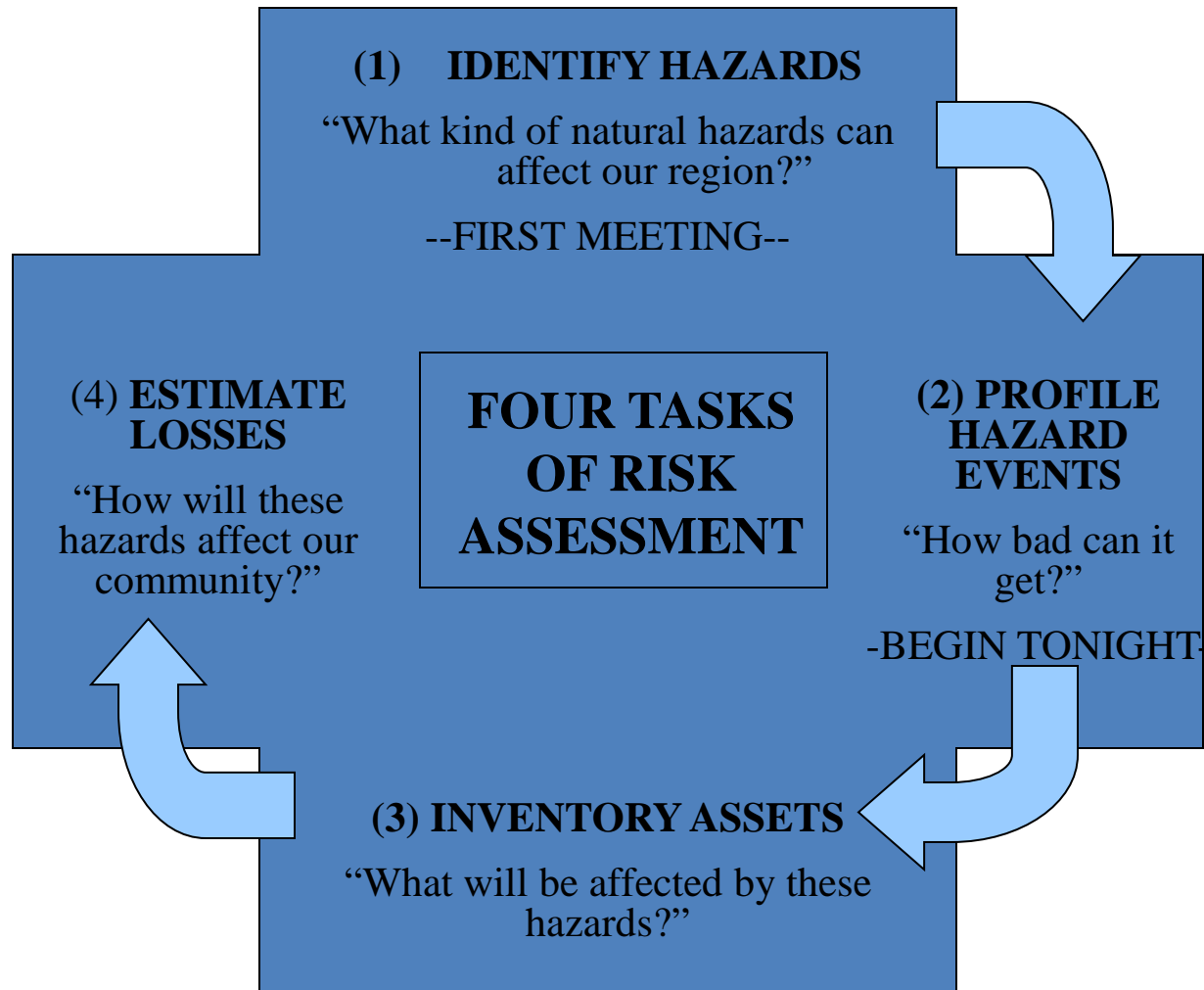
**GOAL 1** Identify and pursue preventive measures that will reduce future damages from hazards.

**GOAL 2** Enhance public awareness and understanding of disaster preparedness.

**GOAL 3** Reduce repetitive flood losses in the parish.

**GOAL 4** Facilitate sound development in the parish to reduce or eliminate the potential impact of hazards.

- CRITICAL FACILITIES
  - HOSPITALS
  - SCHOOLS
  - POLICE STATIONS
  - FIRE STATIONS
  - POWERPLANTS
  - SEWER
  - POTABLE WATER
  - EMERGENCY OPERATIONS CENTER



- HARDENING OR RETROFITTING OF CRITICAL FACILITIES





- DRAINAGE IMPROVEMENTS TO EXISTING FACILITIES



- ELEVATION

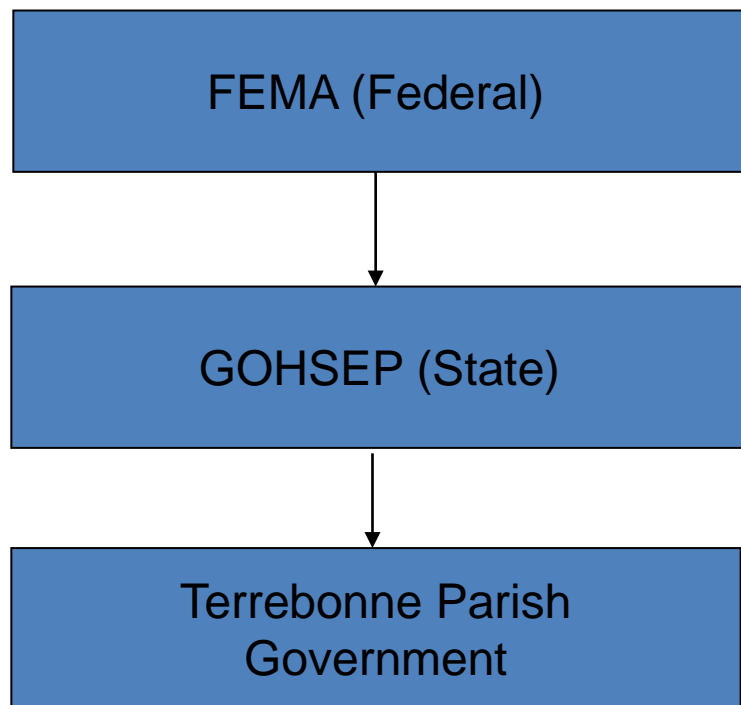




- SAFE ROOMS
- 5% INITIATIVES  
(PUBLIC EDUCATION,  
WARNING SYSTEMS,  
GENERATORS, ETC.)

- MITIGATION FUNDING LEVELS HAVE VARIED...
  - PRE-KATRINA/RITA: GOHSEP FUNDING
    - TARGET=\$35-40M PER YEAR
  - POST-KATRINA/RITA: HMGP=\$1.5B TO AFFECTED AREAS
  - FUTURE FUNDING OF PROJECTS:=? (FUNCTION OF NEXT DISASTER EVENT)

...BUT FUNDING HAS BEEN AVAILABLE VIRTUALLY EVERY YEAR



- Simply identify what hazards might affect the community
- Narrow the list to hazards that are most likely to impact
- Keep records of information gathered

News papers and other unofficial accounts

Federal and state data base info

Community expert and parish/municipal data

Etc.

## Worksheet #1

## Identify the Hazards

step **1**

Date:

What kinds of natural hazards can affect you?

### Task A. List the hazards that may occur.

1. Research newspapers and other historical records.
2. Review existing plans and reports.
3. Talk to the experts in your community, state, or region.
4. Gather information on Internet Websites.
5. Next to the hazard list below, put a check mark in the Task A boxes beside all hazards that may occur in your community or state.

### Task B. Focus on the most prevalent hazards in your community or state.

1. Go to hazard Websites.
2. Locate your community or state on the Website map.
3. Determine whether you are in a high-risk area. Get more localized information if necessary.
4. Next to the hazard list below, put a check mark in the Task B boxes beside all hazards that pose a significant threat.

	Task A	Task B	Use this space to record information you find for each of the hazards you will be researching. Attach additional pages as necessary.			
			Hazard or Event Description (type of hazard, date of event, number of injuries, cost and types of damage, etc.)	Source of Information	Map Available for this Hazard?	Scale of Map
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>				
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>				
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>				
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>				
Drought	<input type="checkbox"/>	<input type="checkbox"/>				
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>				
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>				
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>				
Flood	<input type="checkbox"/>	<input type="checkbox"/>				
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>				
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>				
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>				
Landslide	<input type="checkbox"/>	<input type="checkbox"/>				
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>				
Tornado	<input type="checkbox"/>	<input type="checkbox"/>				
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>				
Volcano	<input type="checkbox"/>	<input type="checkbox"/>				
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>				
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>				
Other _____	<input type="checkbox"/>	<input type="checkbox"/>				
Other _____	<input type="checkbox"/>	<input type="checkbox"/>				
Other _____	<input type="checkbox"/>	<input type="checkbox"/>				

Note: **Bolded** hazards are addressed in this How-To Guide.

- Has your department/district suffered losses during past storm events due to flooding or wind that could have been prevented?
- Do you foresee a future scenario where your department/district might be susceptible to losses as a result of a storm event?
- Obtain and create base maps
- Obtain hazard event profile information.
- Record the hazard event profile information.

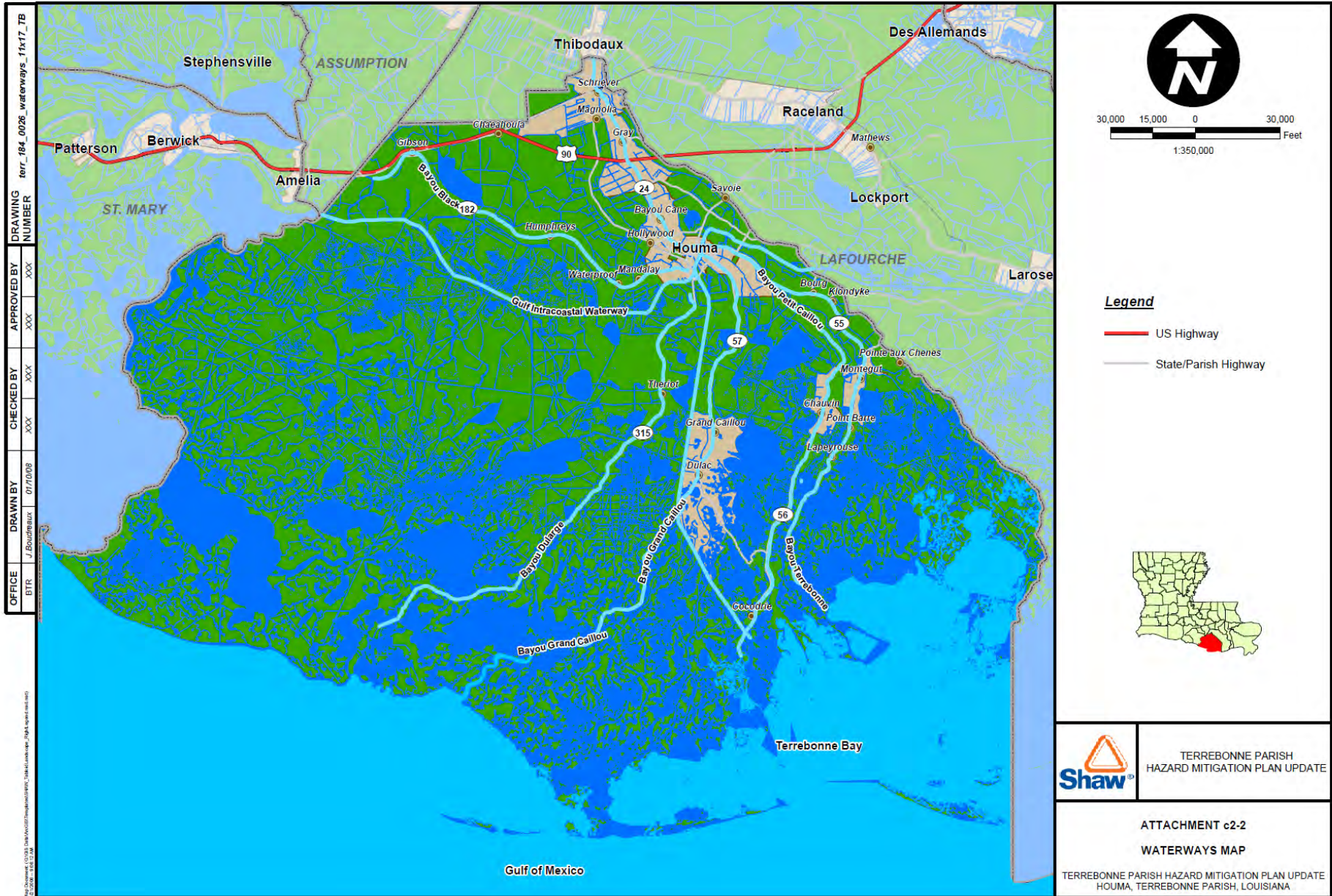
## **Current Plan:**

- Hurricane Betsy
- Hurricane Juan
- Hurricane Andrew
- Tropical Storm Allison
- Hurricane Lili
- Hurricane Rita

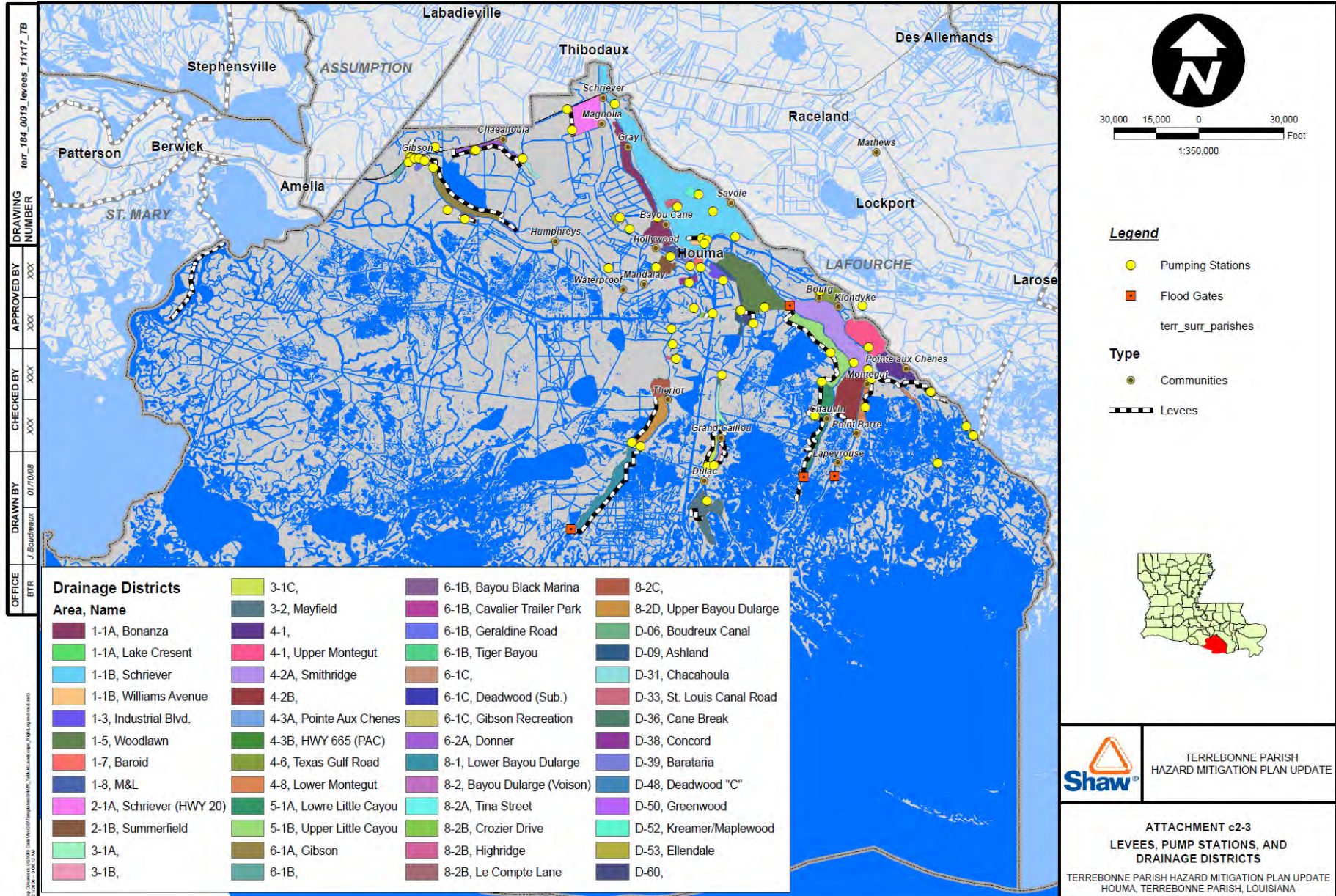




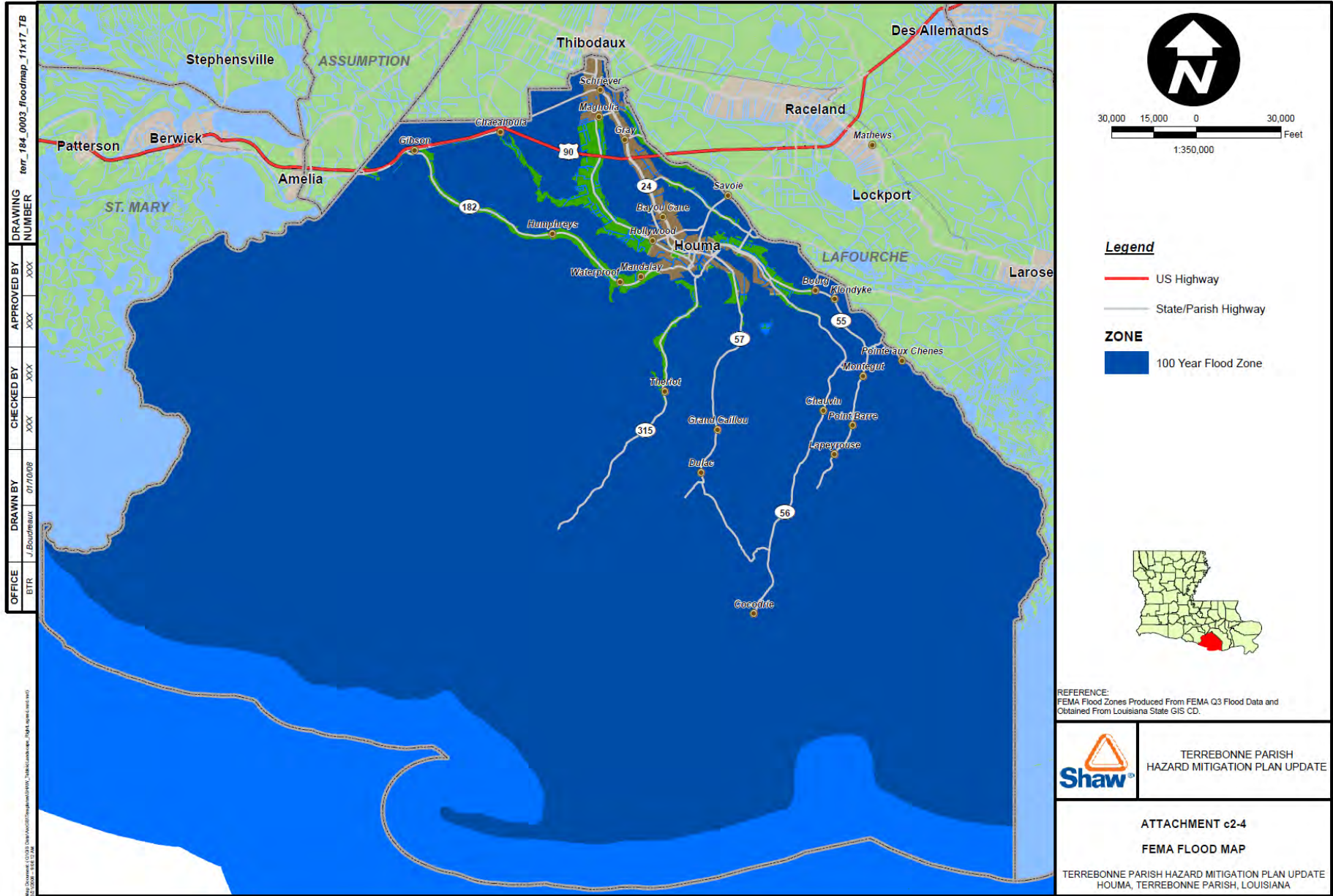




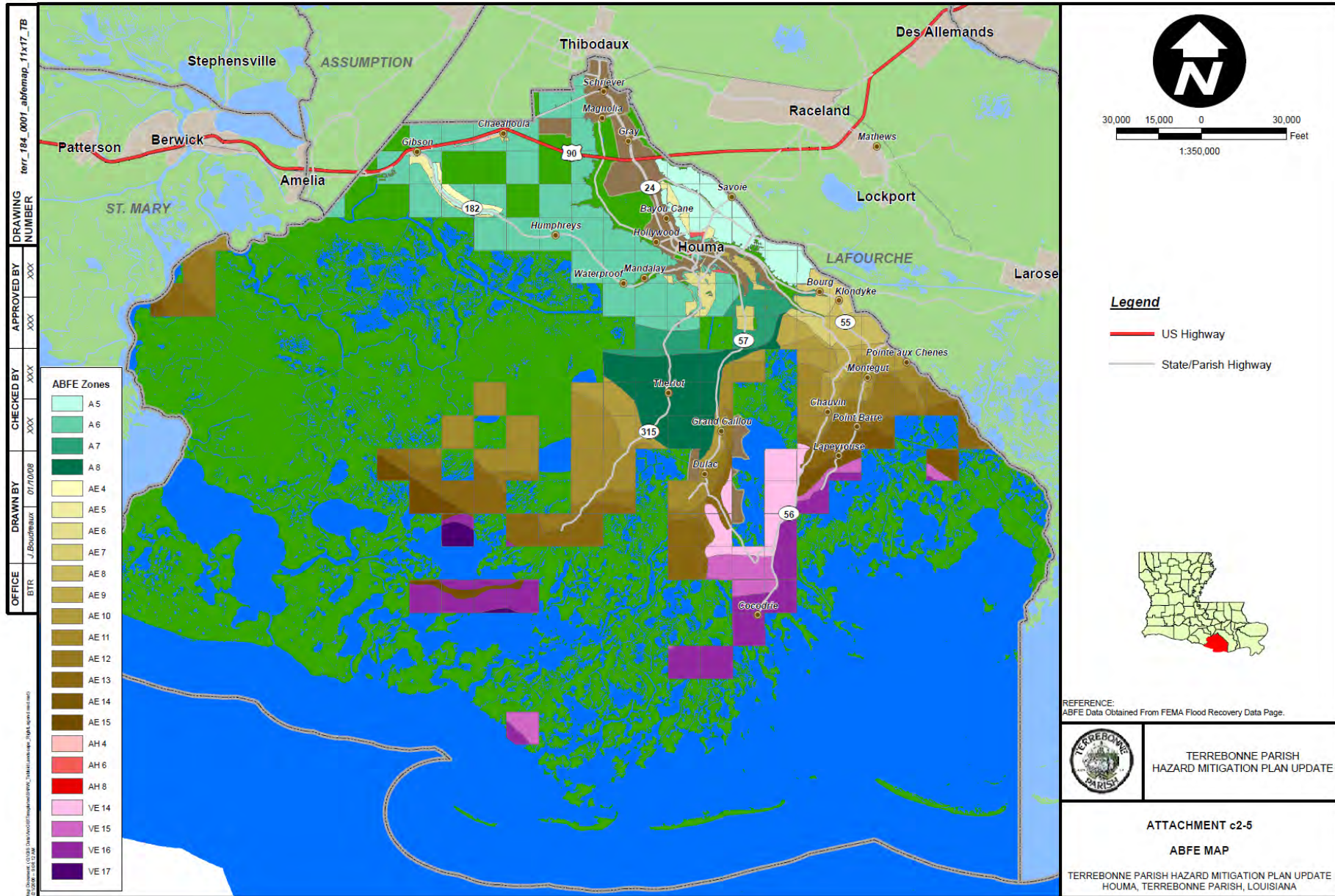












ABFE Zones

- A 5
- A 6
- A 7
- A 8
- AE 4
- AE 5
- AE 6
- AE 7
- AE 8
- AE 9
- AE 10
- AE 11
- AE 12
- AE 13
- AE 14
- AE 15
- AH 4
- AH 6
- AH 8
- VE 14
- VE 15
- VE 16
- VE 17

Map Downloaded: 01/10/08 10:00 AM CST. Map Data: FEMA Flood Recovery Data Page. Data: FEMA Flood Recovery Data Page.



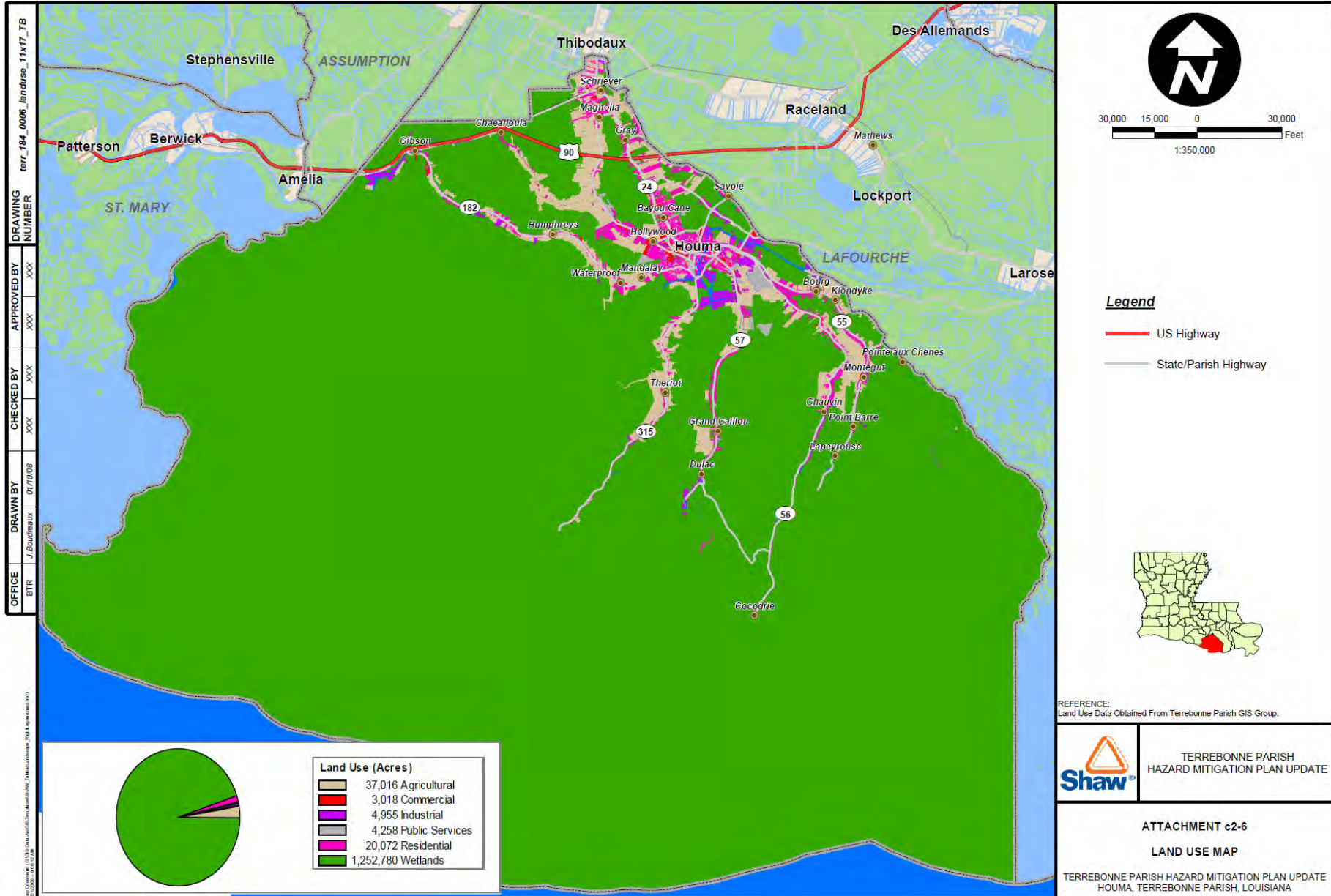
TERREBONNE PARISH  
HAZARD MITIGATION PLAN UPDATE

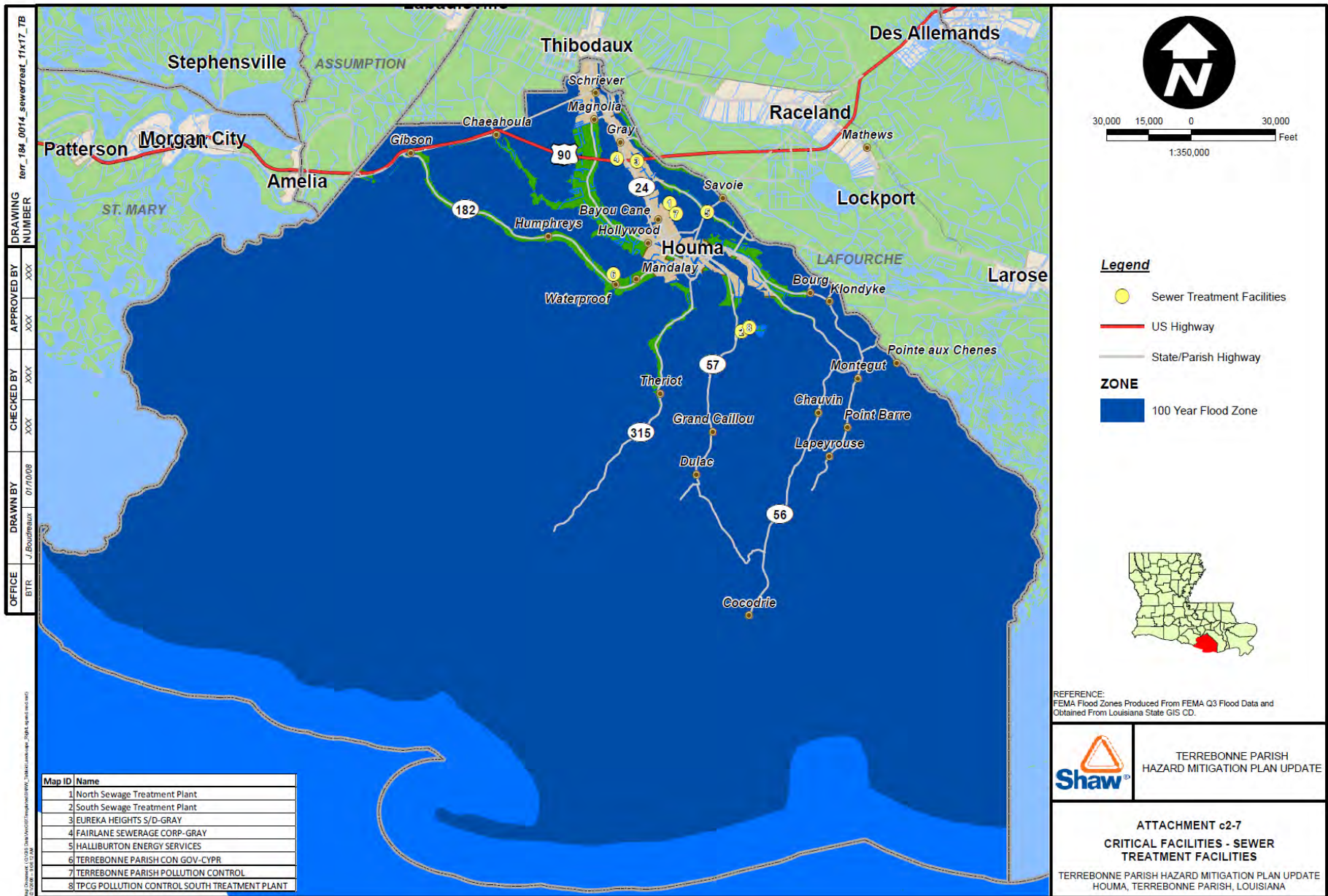
ATTACHMENT c2-5

ABFE MAP

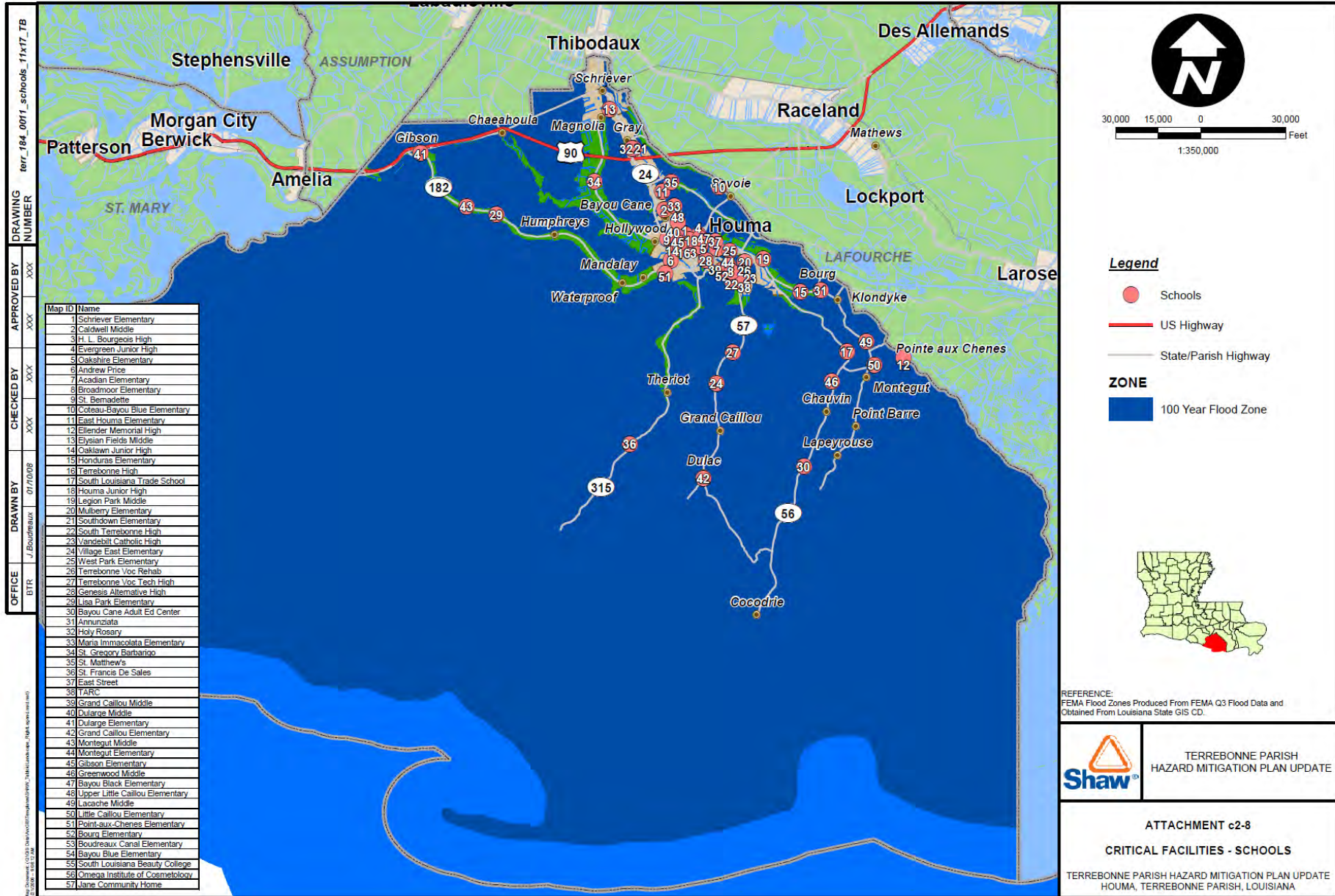
TERREBONNE PARISH HAZARD MITIGATION PLAN UPDATE  
HOUMA, TERREBONNE PARISH, LOUISIANA

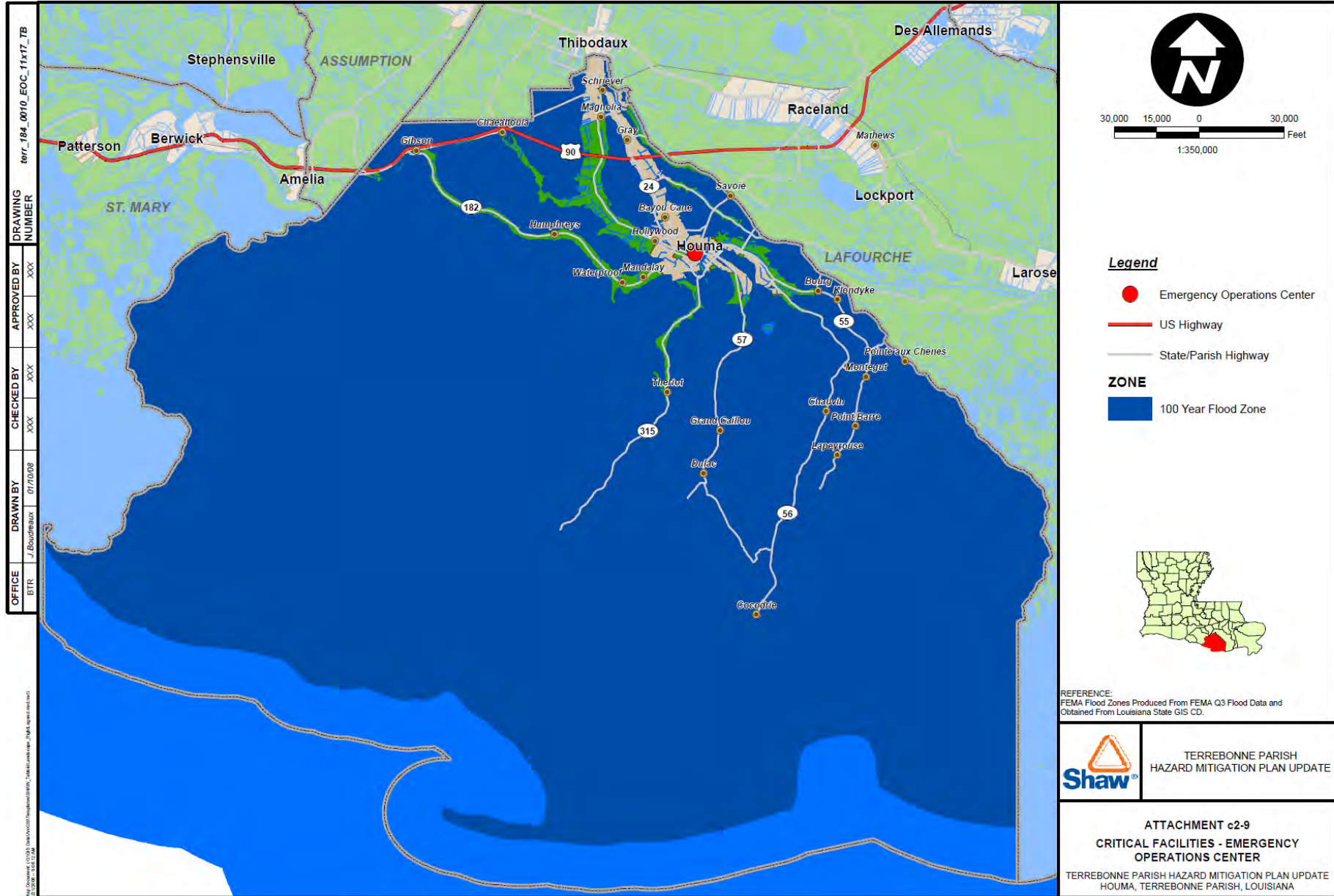




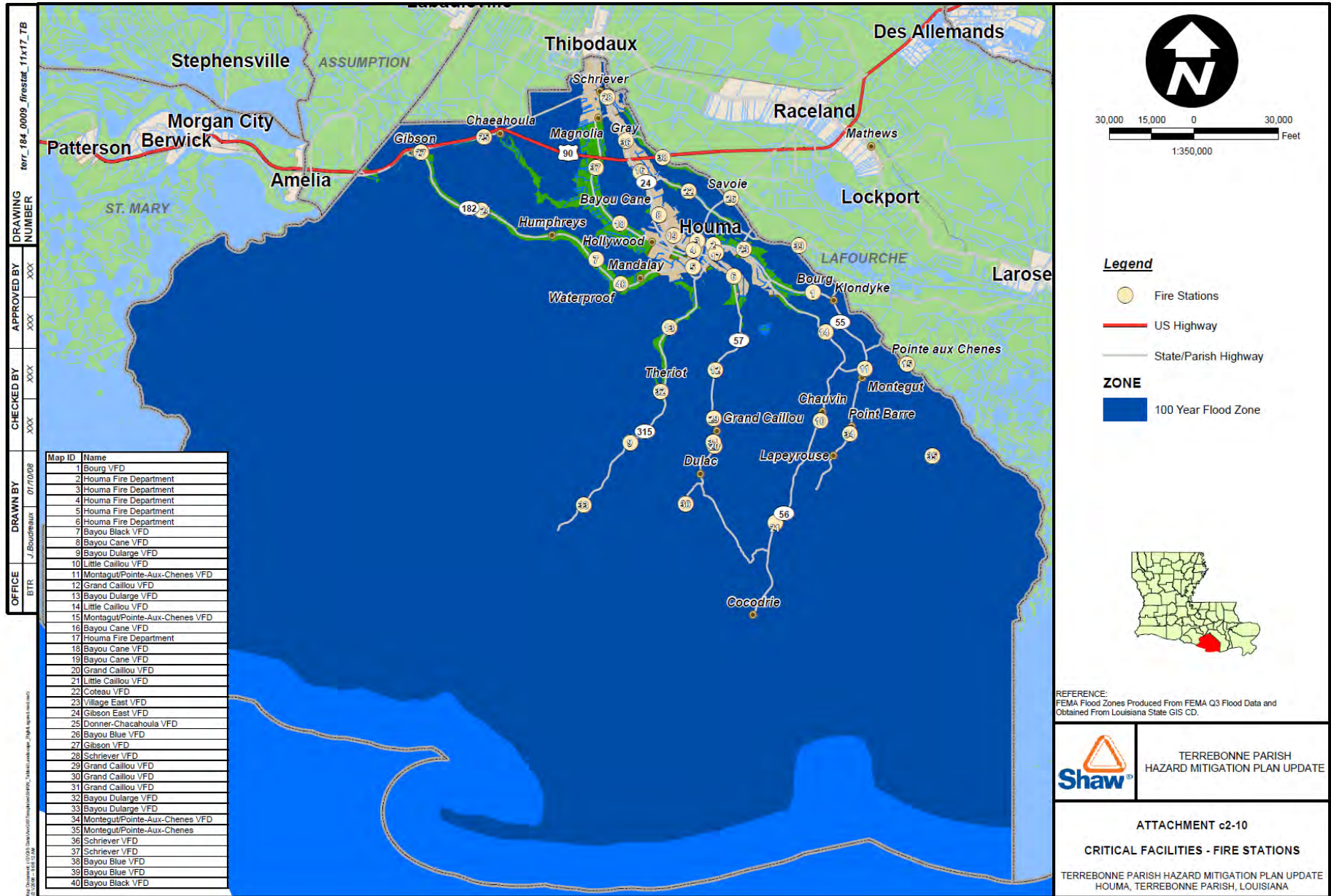




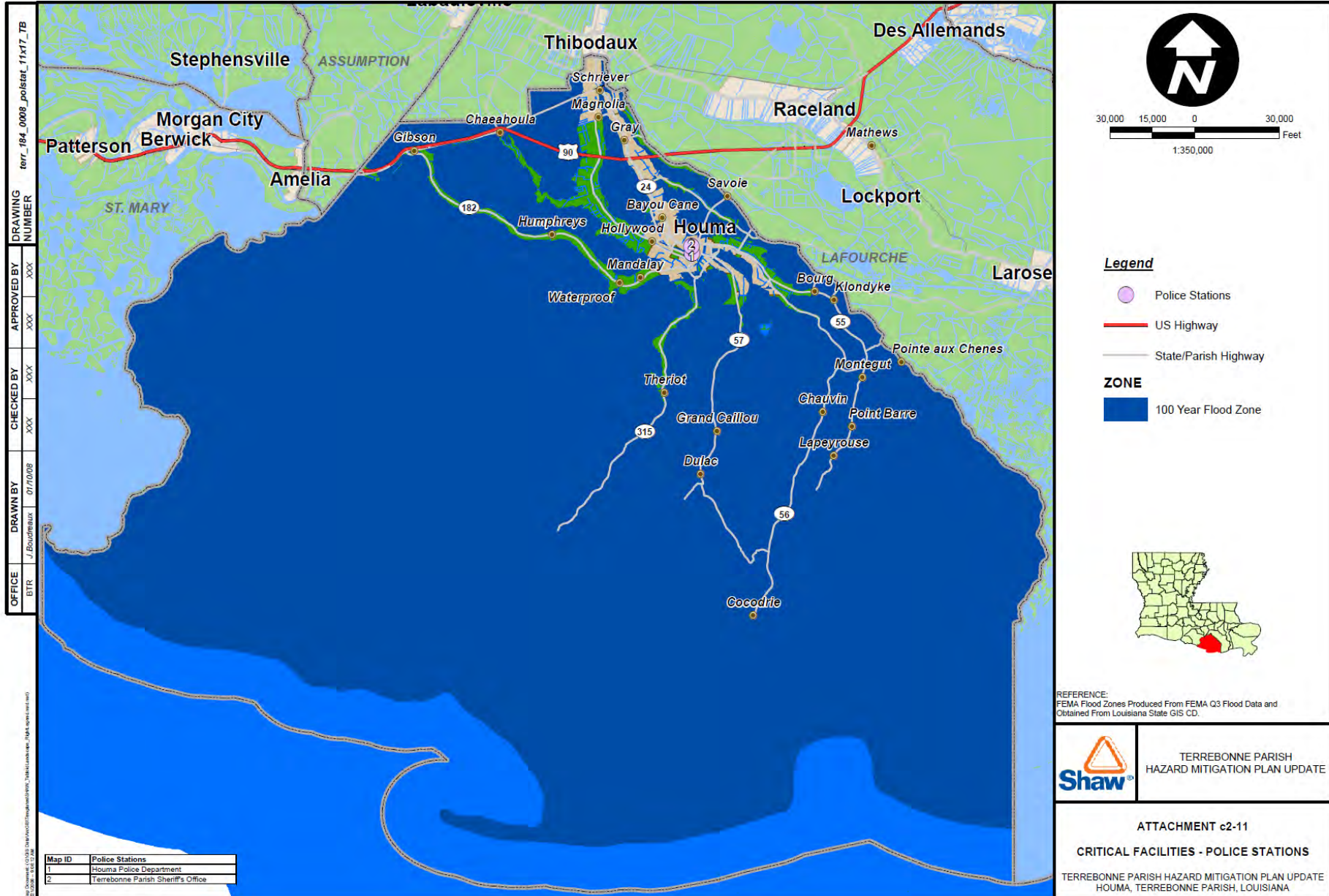


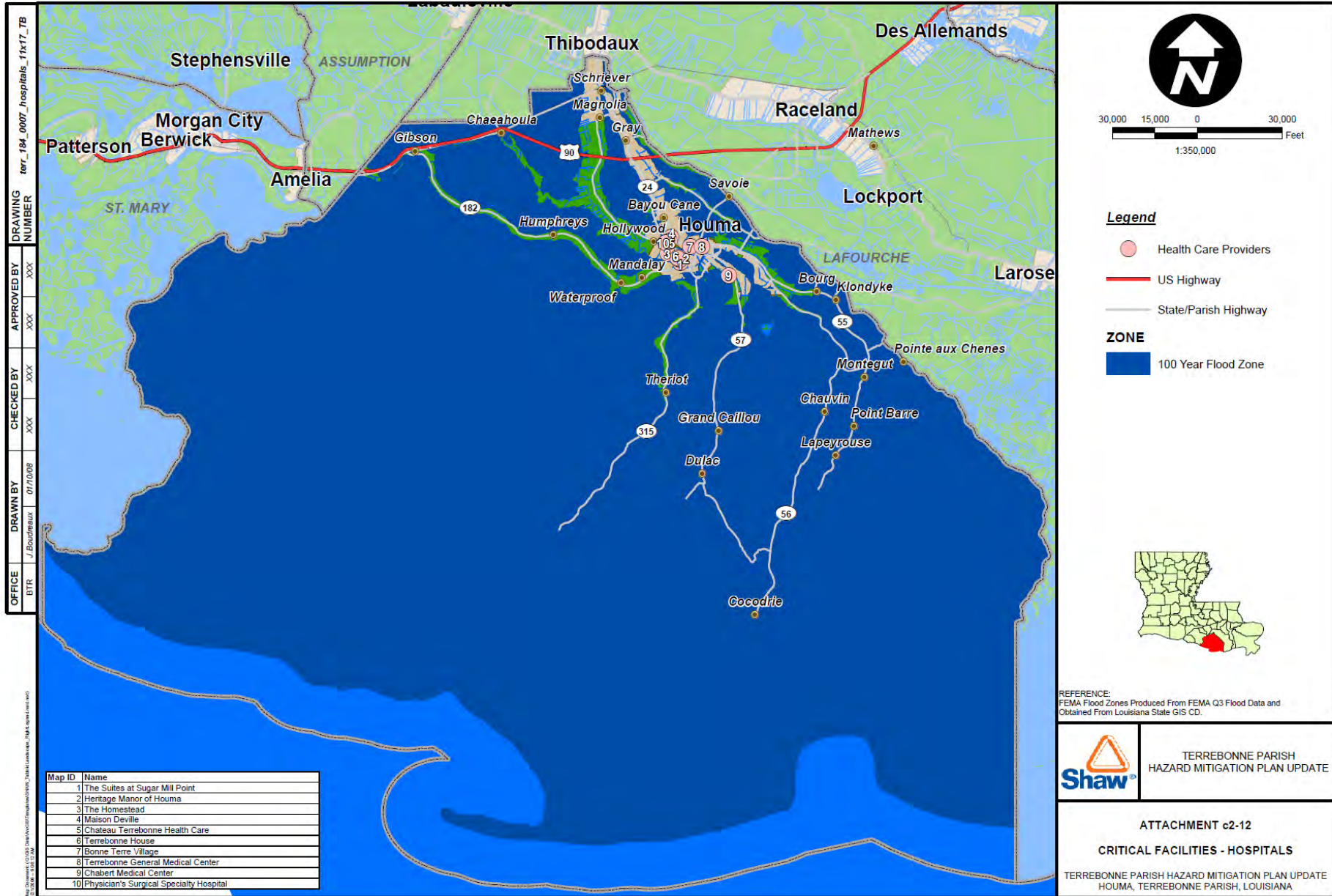




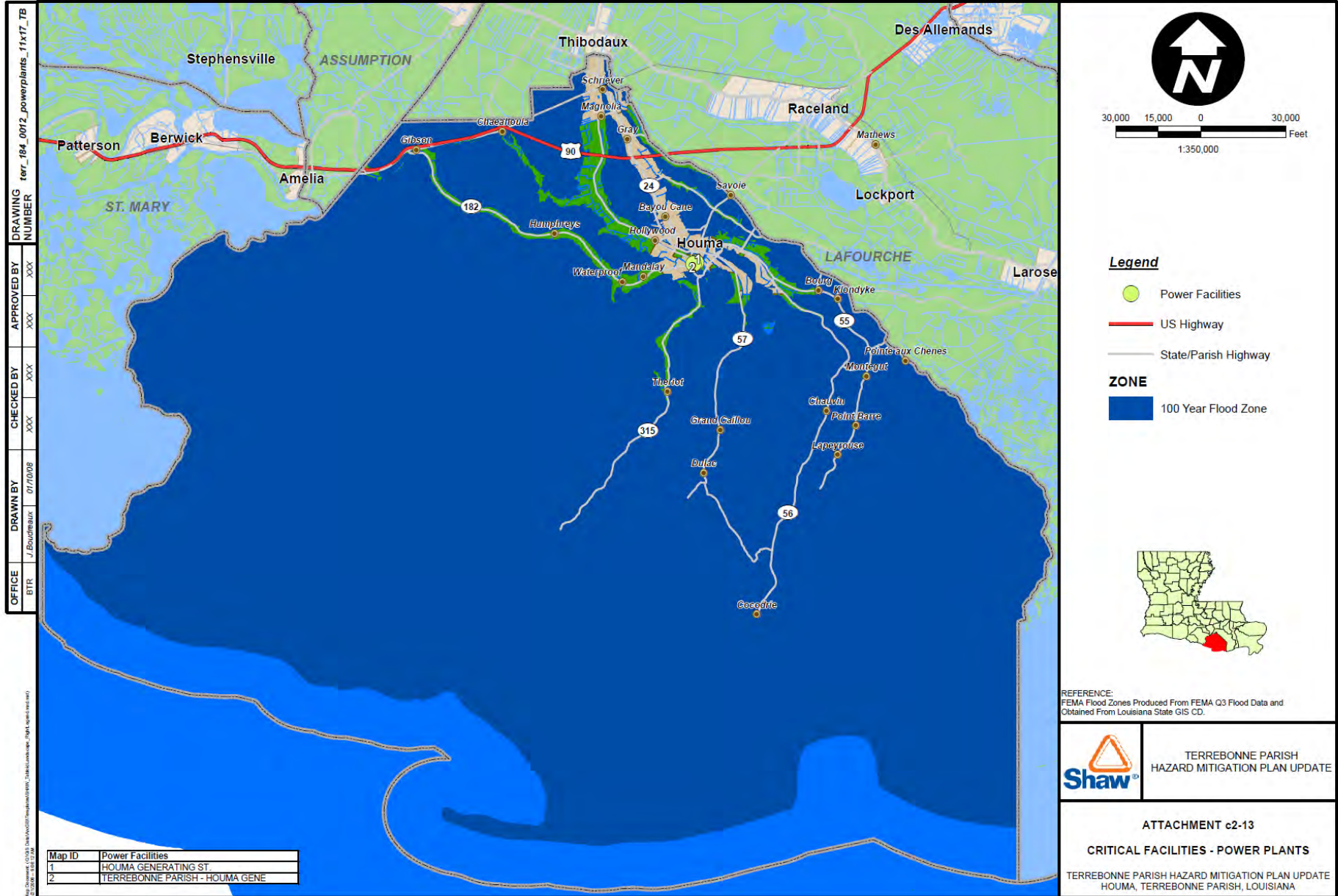


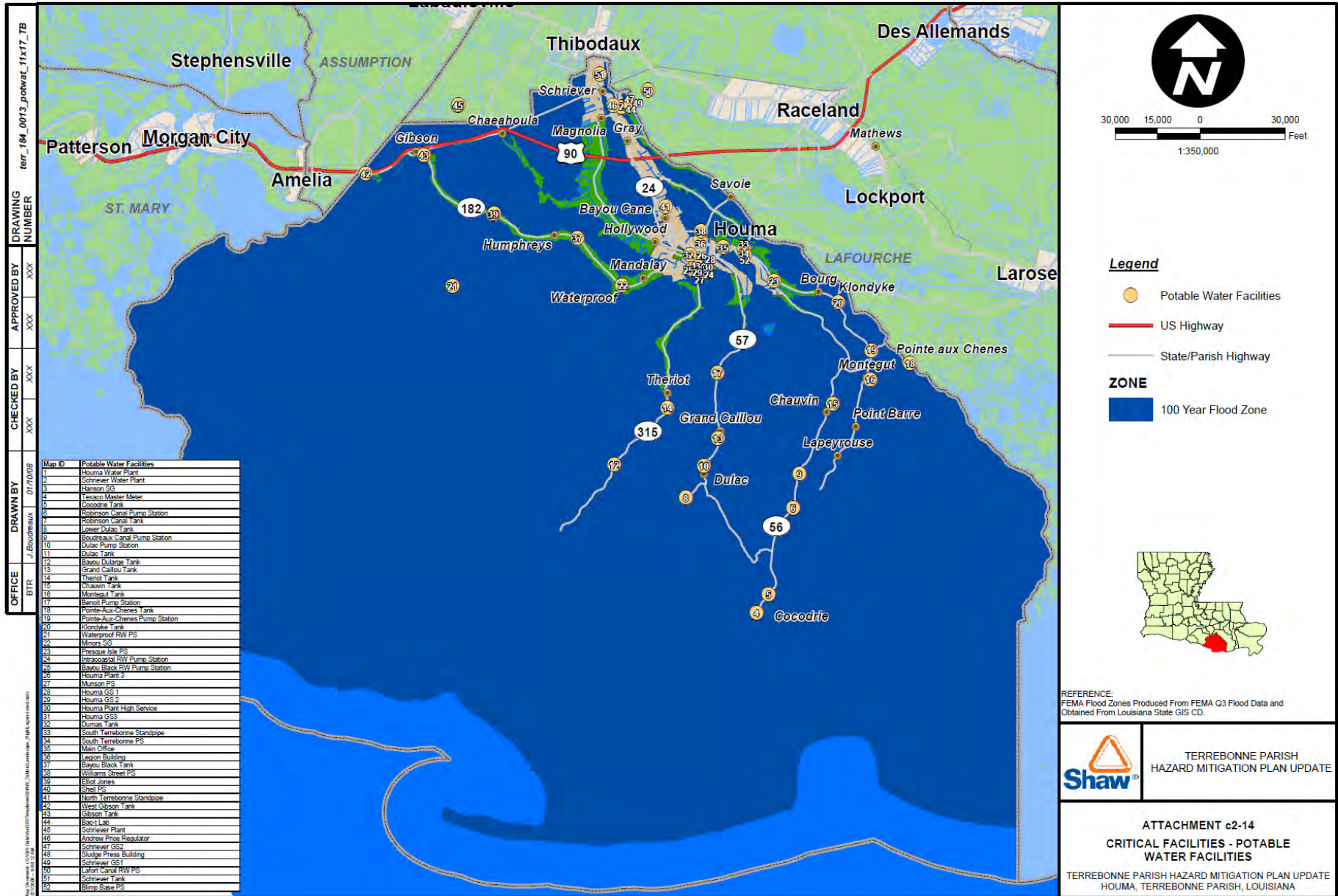




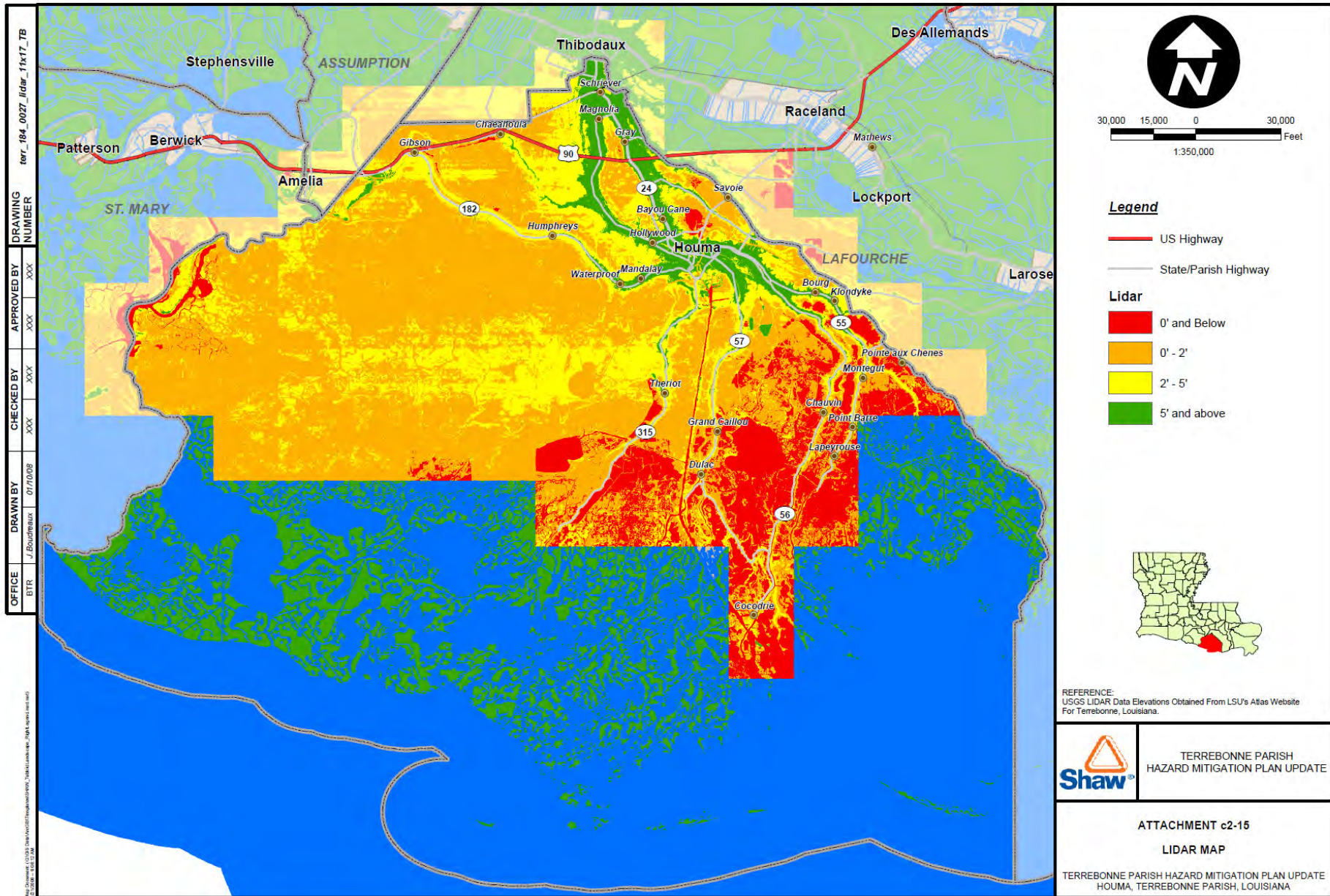








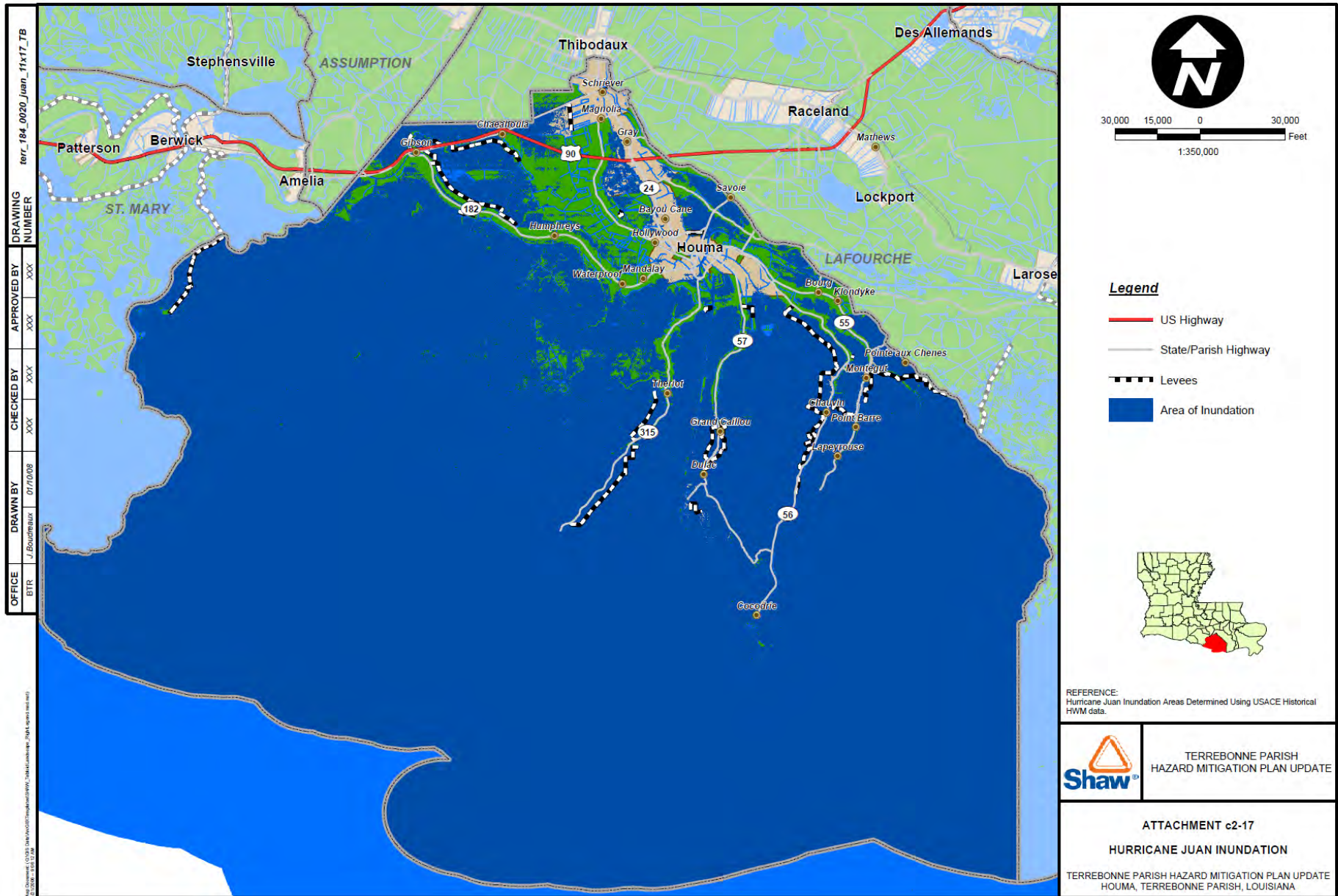




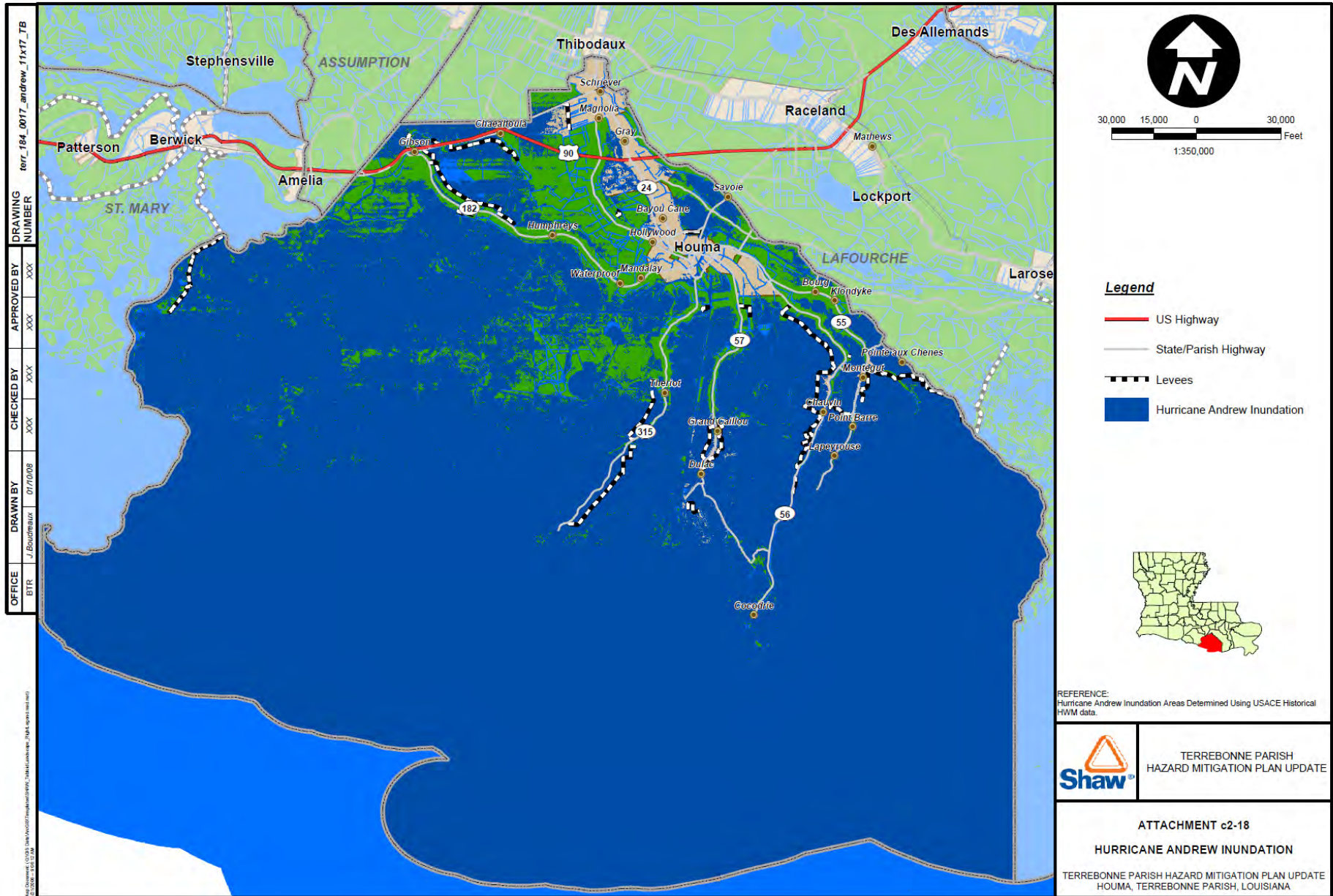




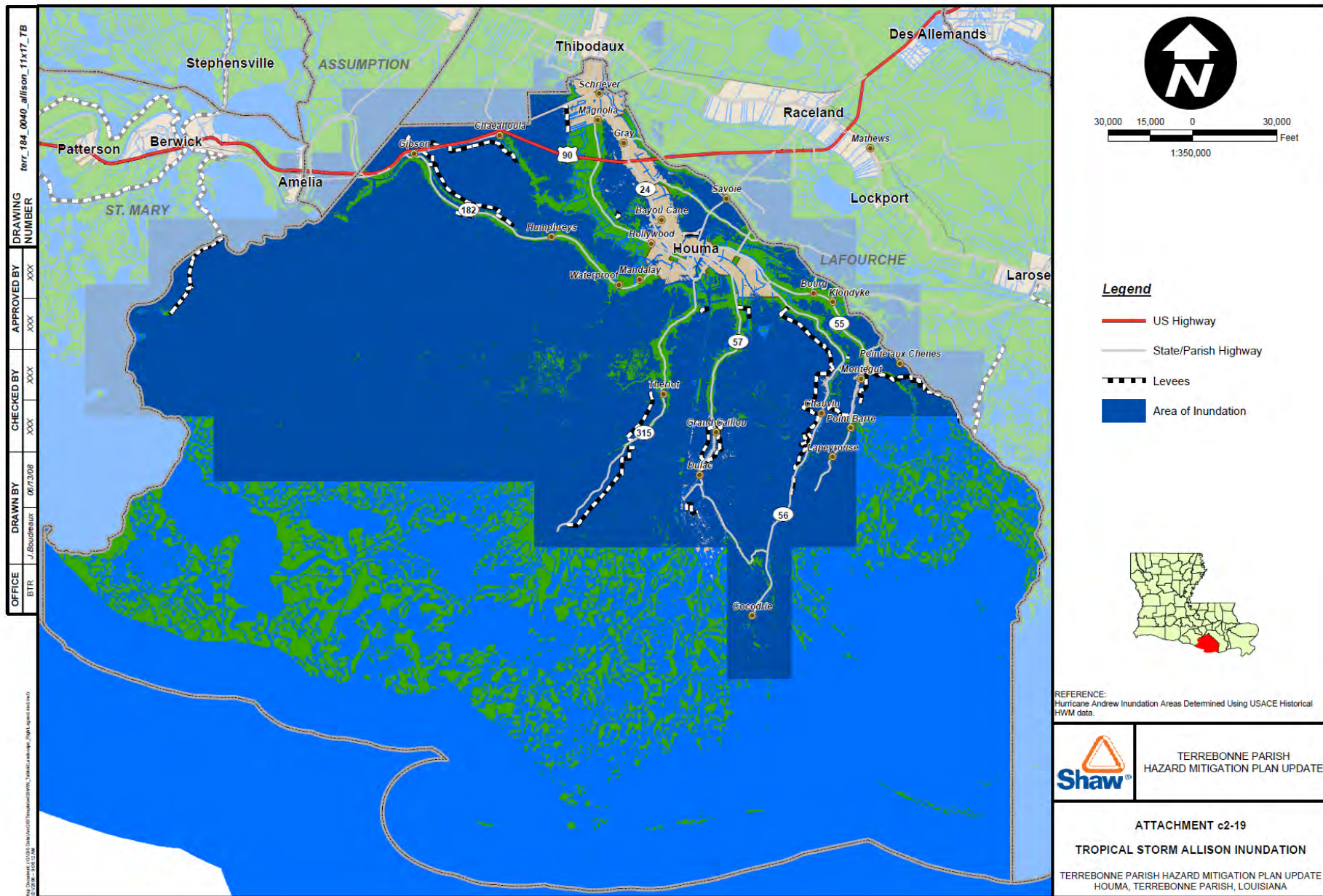










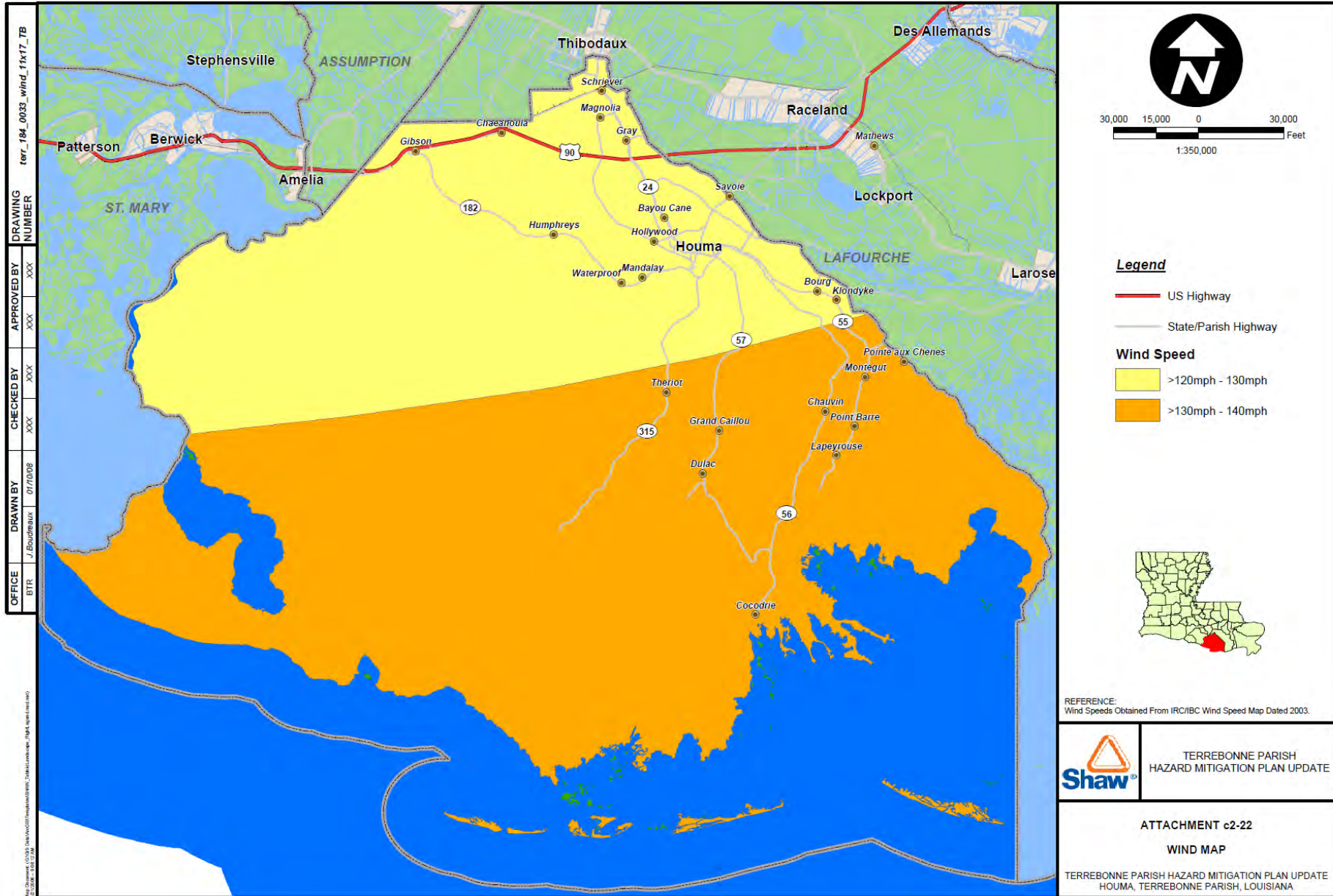






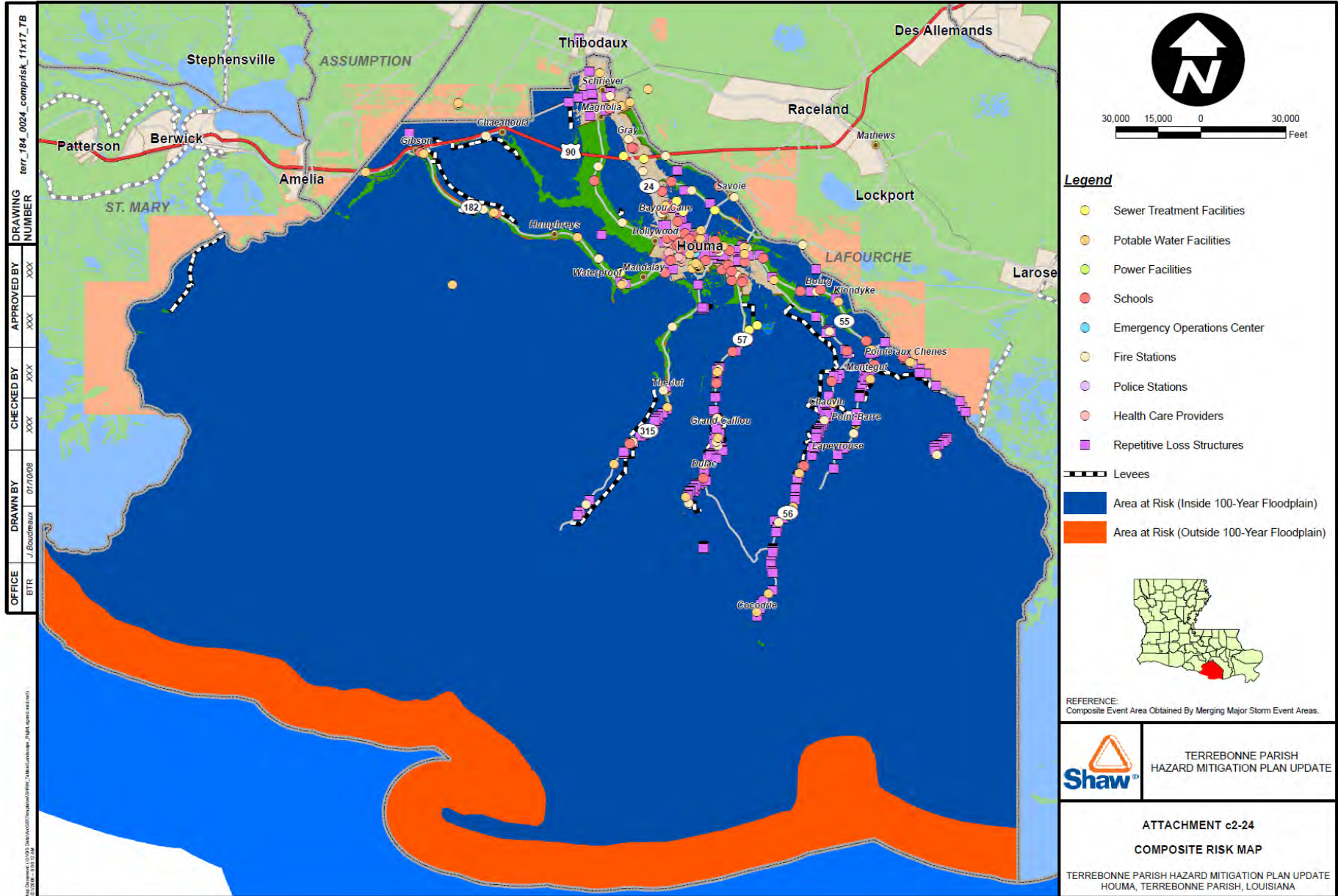




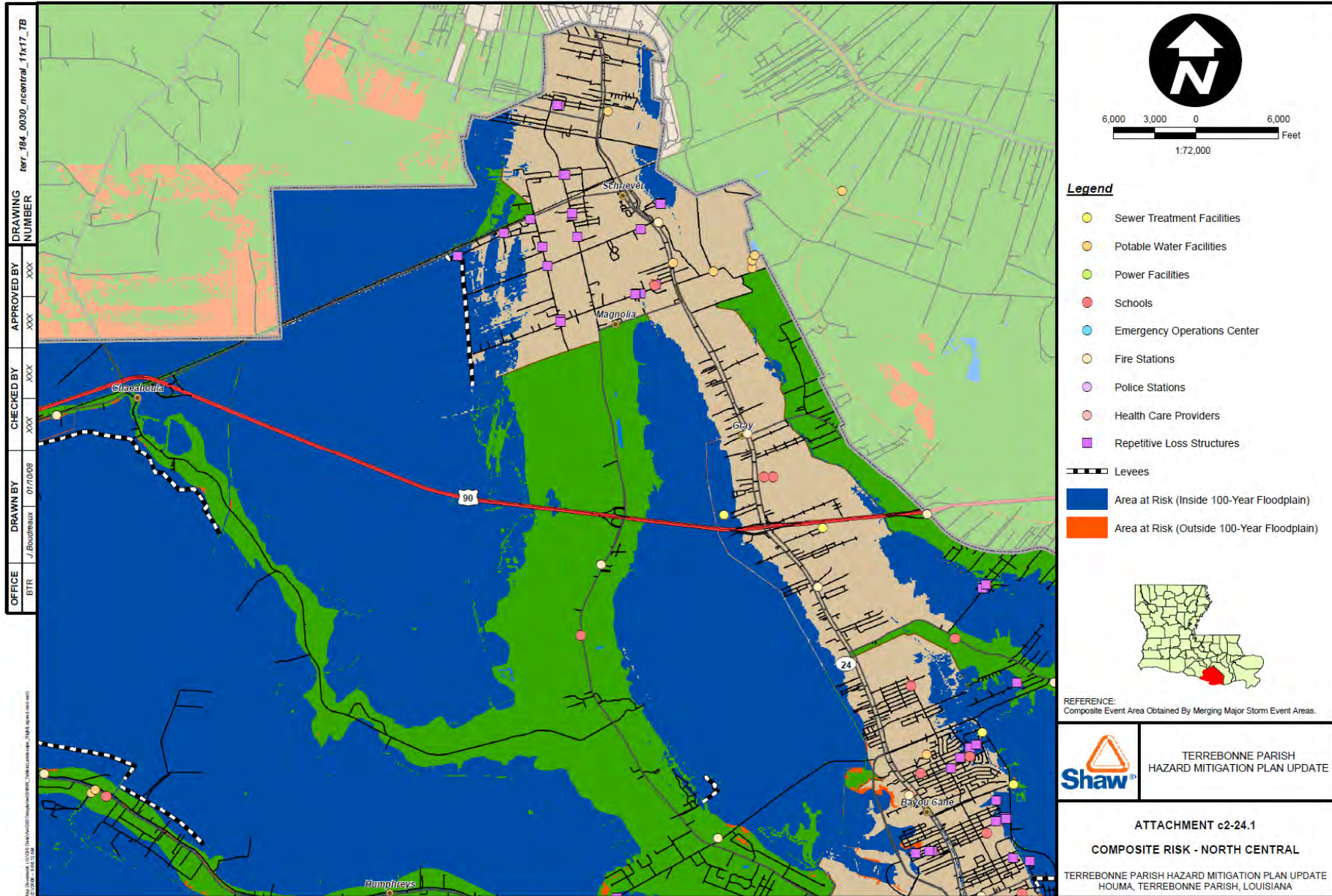




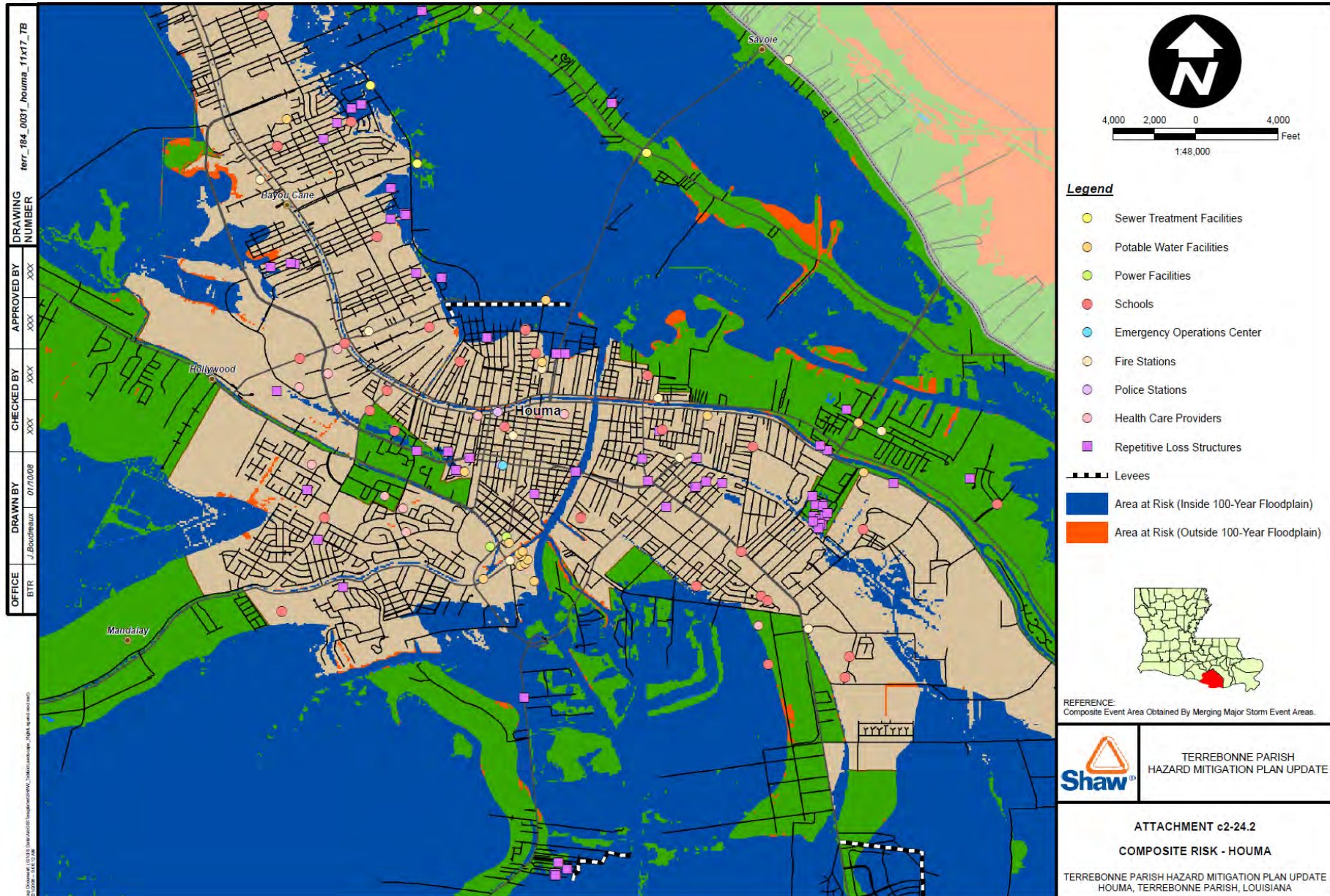




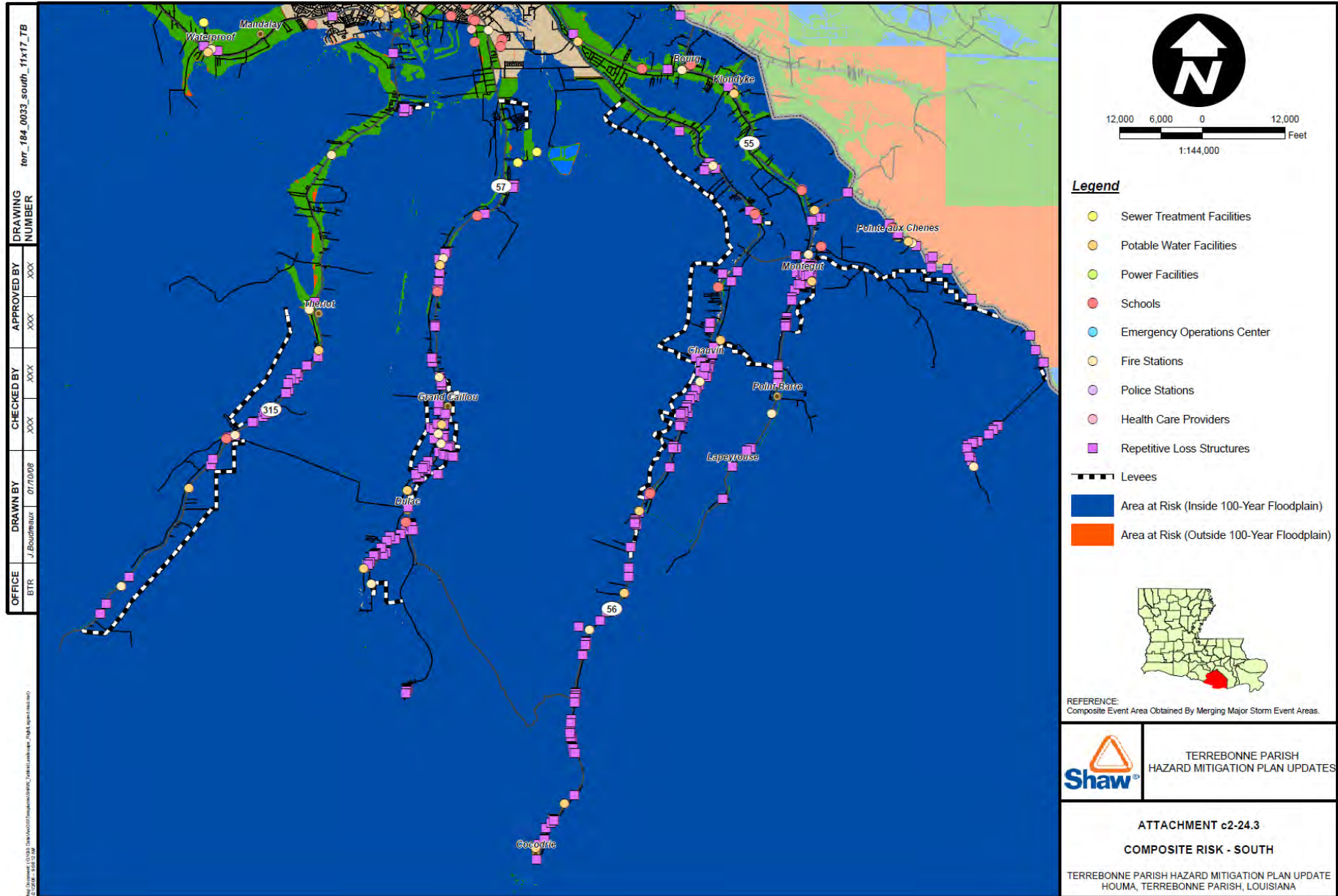


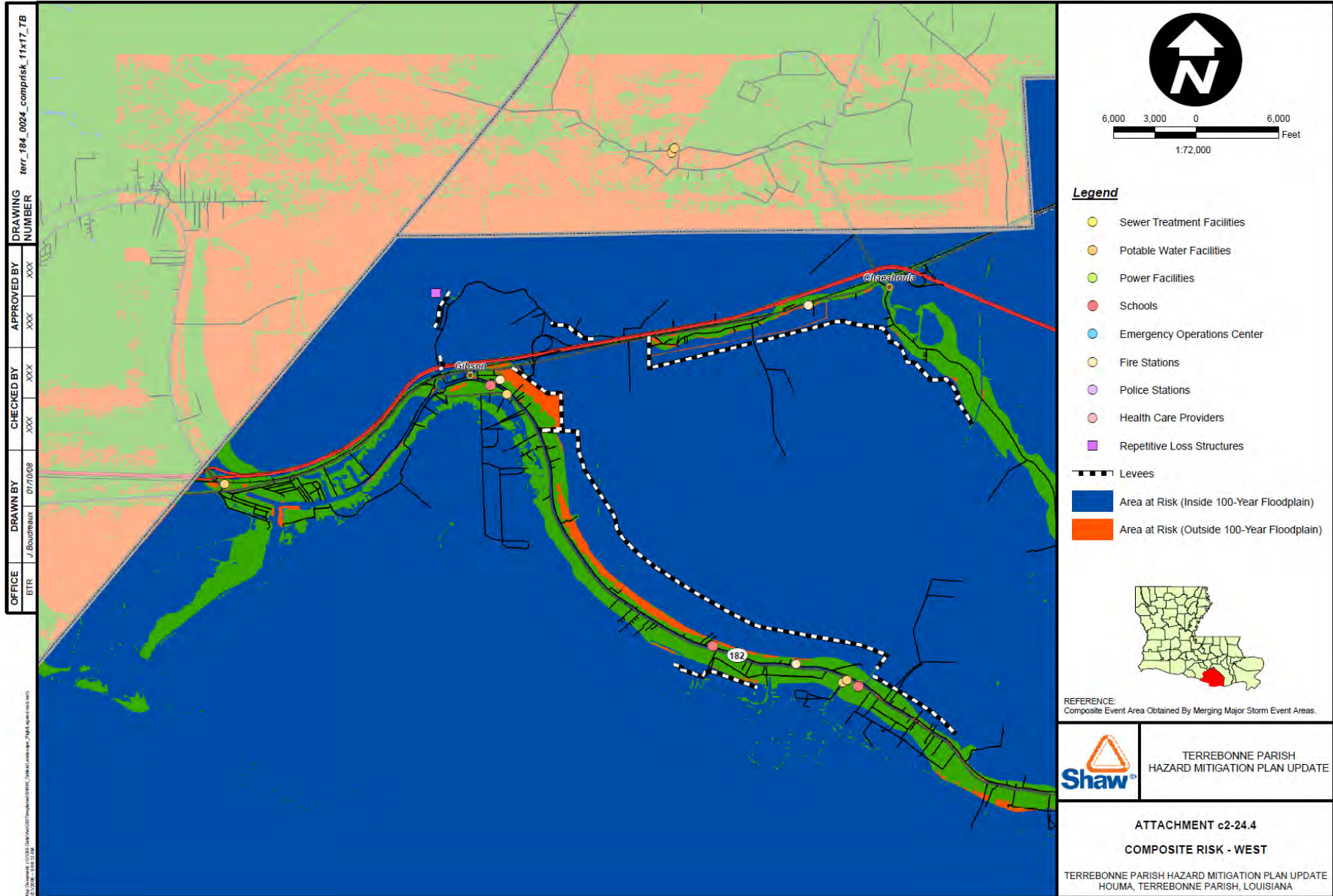




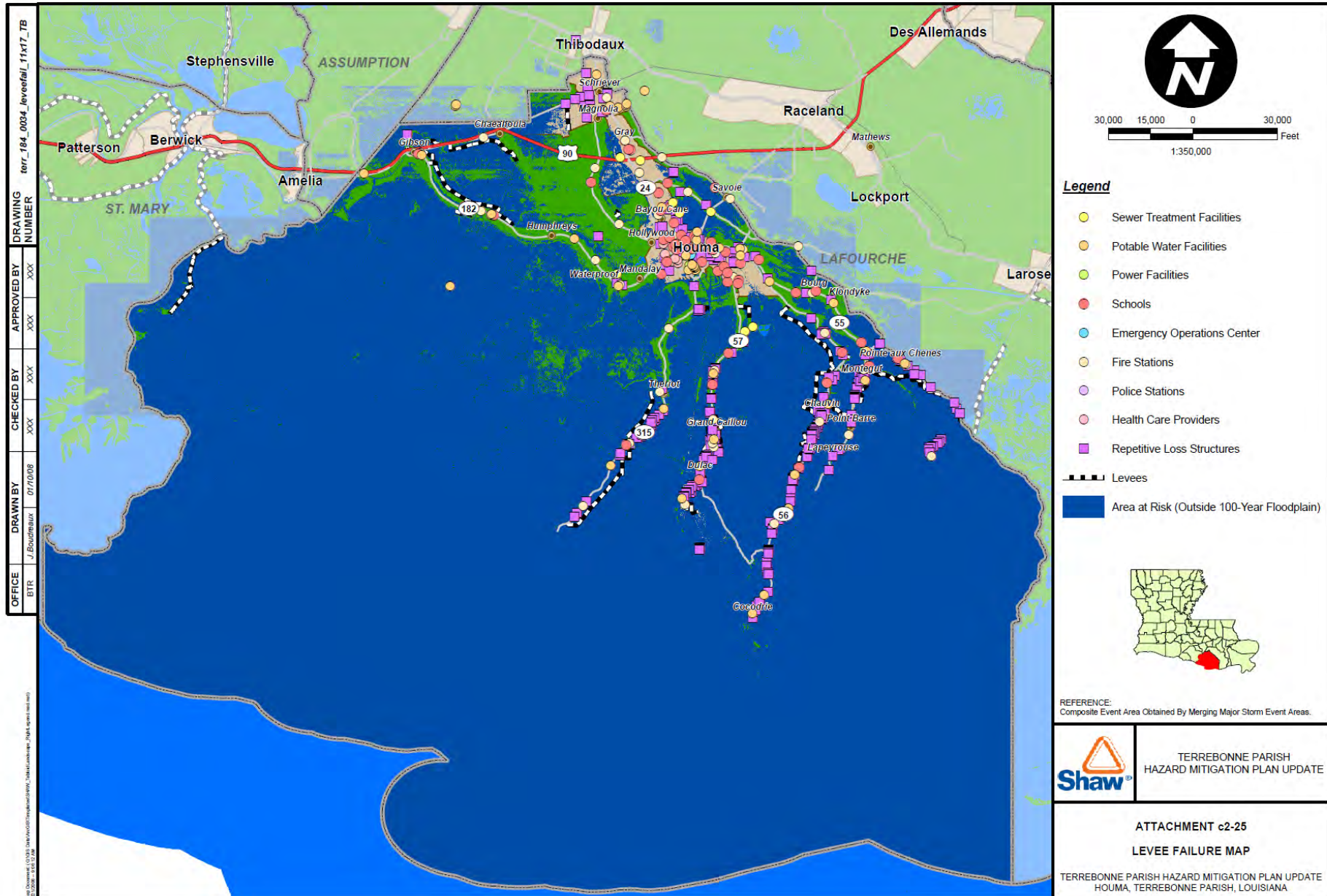














- Project List

- I. INTRODUCTIONS AND WELCOME
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- I. Meeting Summary
  - A. Purpose, Need, and Expectations
  - B. Participation Strategy
  - C. Plan Review
  - D. Conclusion
- II. Tentative Agenda for Meeting 2
  - A. Risk Assessment
  - B. Map Review
  - C. Project Prioritization
- III. Schedule/Locate Next Meeting
- IV. Adjourn



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