



Proposed Project Approach: Levee Improvement Project

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PEN 1 & PEN 2 - Original Project Timeline

PHASE 1 (2012-2015)

Investigate Current Condition of Levees



PHASE 2 (2015 – 2017)

Design and Finance Repairs



PHASE 3

Implement Repairs



PHASE 4

Certify & Submit Documentation

Phase 2: Proposed Project Approach



Proposed Project Timeline

PHASE 1 (2012-2015)

Levee Engineering Assessments (PEN 1 and PEN 2)

PHASE 2 (2015-2016)

Levee Engineering Assessments (MCDD and SDIC)
Current Conditions Assessment (system wide)

PHASE 3 (2016-2017)

Risk Based Decision Model - Alternatives Analysis
System Wide Design and Finance Repairs

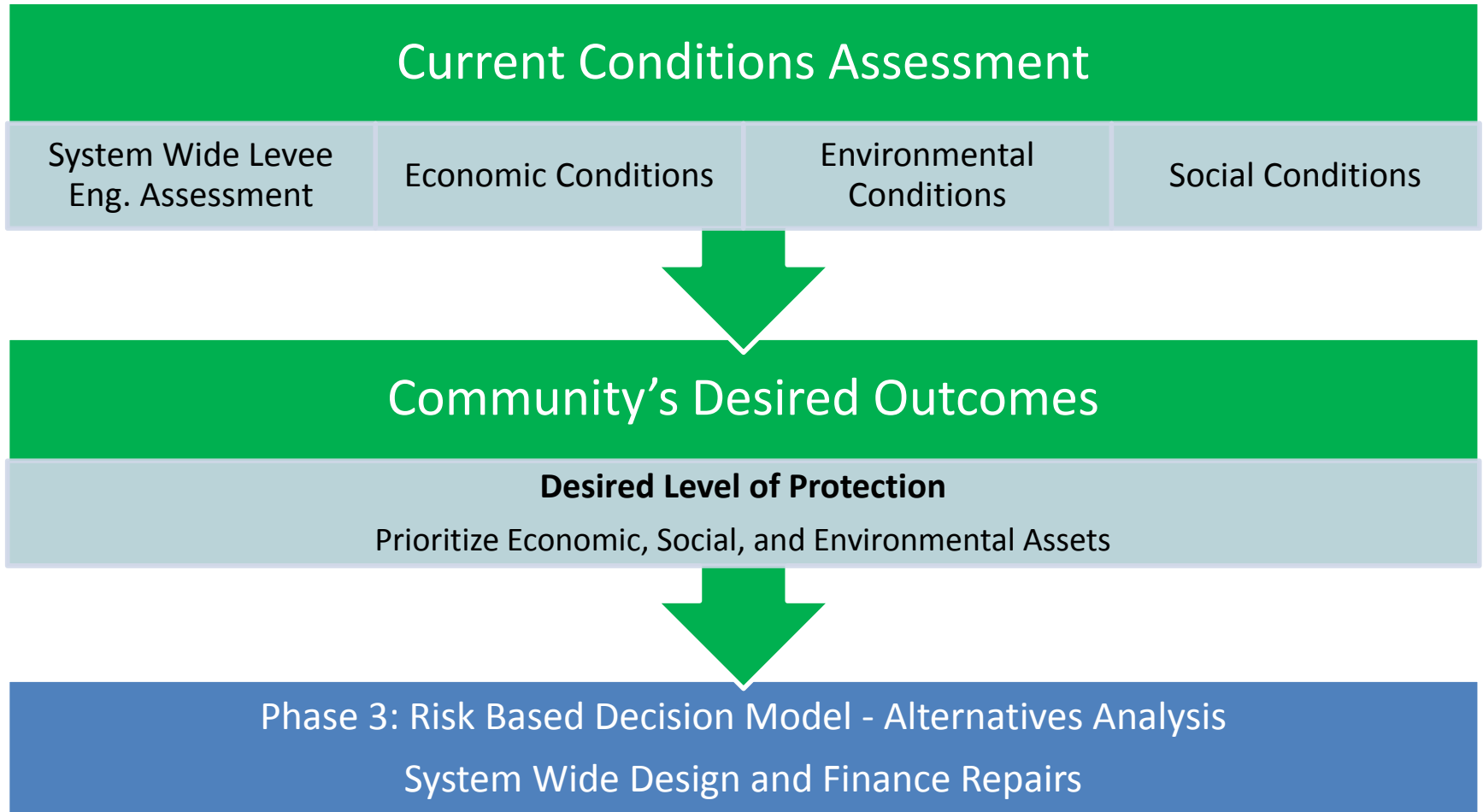
PHASE 4

Implement Repairs System Wide

PHASE 5

Certify & Submit Documentation for System Wide
Accreditation

Phase 2: Current Conditions Assessment



Phase 2: Current Conditions Assessment



System Wide Investigation



Economic Conditions



Environmental Conditions



Social Conditions

Phase 2: Desired Outcomes

Desired Level of Protection

Prioritize Economic, Social, and Environmental Assets

Summary Water Surface Elevations for PEN 2 Levee System – NAVD88

River Mile	1%-annual-chance (100 Year) FEMA	0.2%-annual-chance (500 Year) FEMA	Design Flood (470 Year) USACE
107.4	31.8 ft.	35.3 ft.	35.1 ft.

Benefits of Proposed Approach

- Project Benefits
 - More public engagement, regional participation
 - Comprehensive end product
 - Better understanding of risk
- Economic benefits
 - Potential to reduce costs
 - Potential to distribute costs

Risks of Proposed Approach

- Project Risks
 - Agreement with federal partners regarding holistic approach
 - PEN 1 and PEN 2 expired certifications

Proposed Timeline

