

HERBERT HOOVER DIKE REHABILITATION PROJECT

Water Control Structure S-291 (IP-3)

Pre-Proposal Conference

Stephen Meyer, P.E.

Project Manager

US Army Corps of Engineers

Jacksonville District

12 May 2016

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Agenda



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Purpose

Brief interested members of industry on the S-291 (IP-3) Contract and assist them in preparing their bid/proposal on the project, if they choose to do so.

Agenda

- HHD video
- Project overview / background and history
- Engineering overview S-291 (IP-3) – project implementation
- Contracting requirements – solicitation information
- Small business overview
- Construction considerations
- Site visit information



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Herbert Hoover Dike Overview



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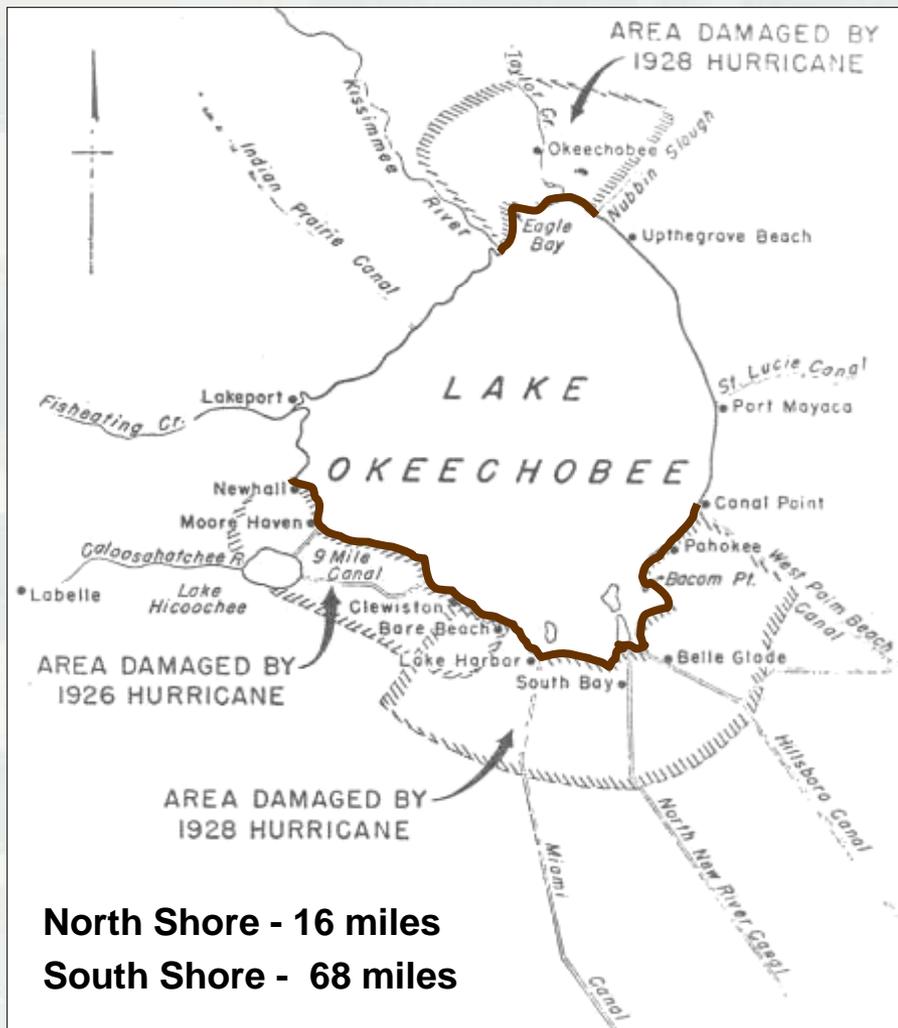
- Lake Okeechobee is approximately 730 square miles
- Basin is over 5,600 square miles
- Average water depth is 9 feet
- One foot of rainfall runoff from the basin can result in a three to four foot rise of the lake
- During large flood events, water can flow into the lake much faster than it can be released



Congress Authorizes Herbert Hoover Dike in 1930



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- Over 3,000 lives were lost by the 1926 and 1928 hurricanes
- Significant economic impacts
- HHD first authorized in 1930
- Multiple authorizations



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Herbert Hoover Dike Today



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143 miles of embankment around Lake Okeechobee

- 32 federal culverts
- 5 spillway inlets
- 5 spillway outlets
- 9 navigation locks
- 9 pump stations

No overflow capability

Built by hydraulic dredge and fill methods

- Not acceptable to today's construction standards





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HHD Problems (Failure Modes)



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Internal erosion (seepage and piping)

- Through embankment
- Through foundation

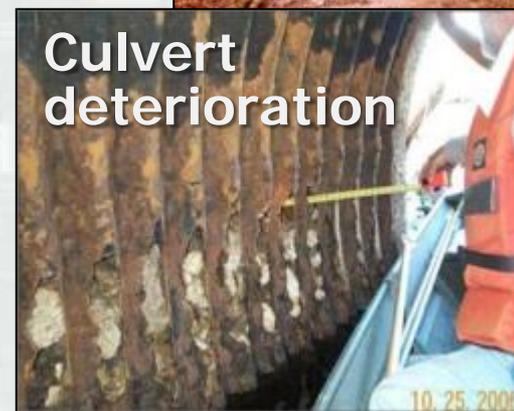
Culvert structures

- Soil erosion into conduit
- Erosion/Piping around conduit

Overwash/Overtopping

- Erosion of downstream slope

Dam Safety Action Classification (DSAC) Level 1- Assigned 2006



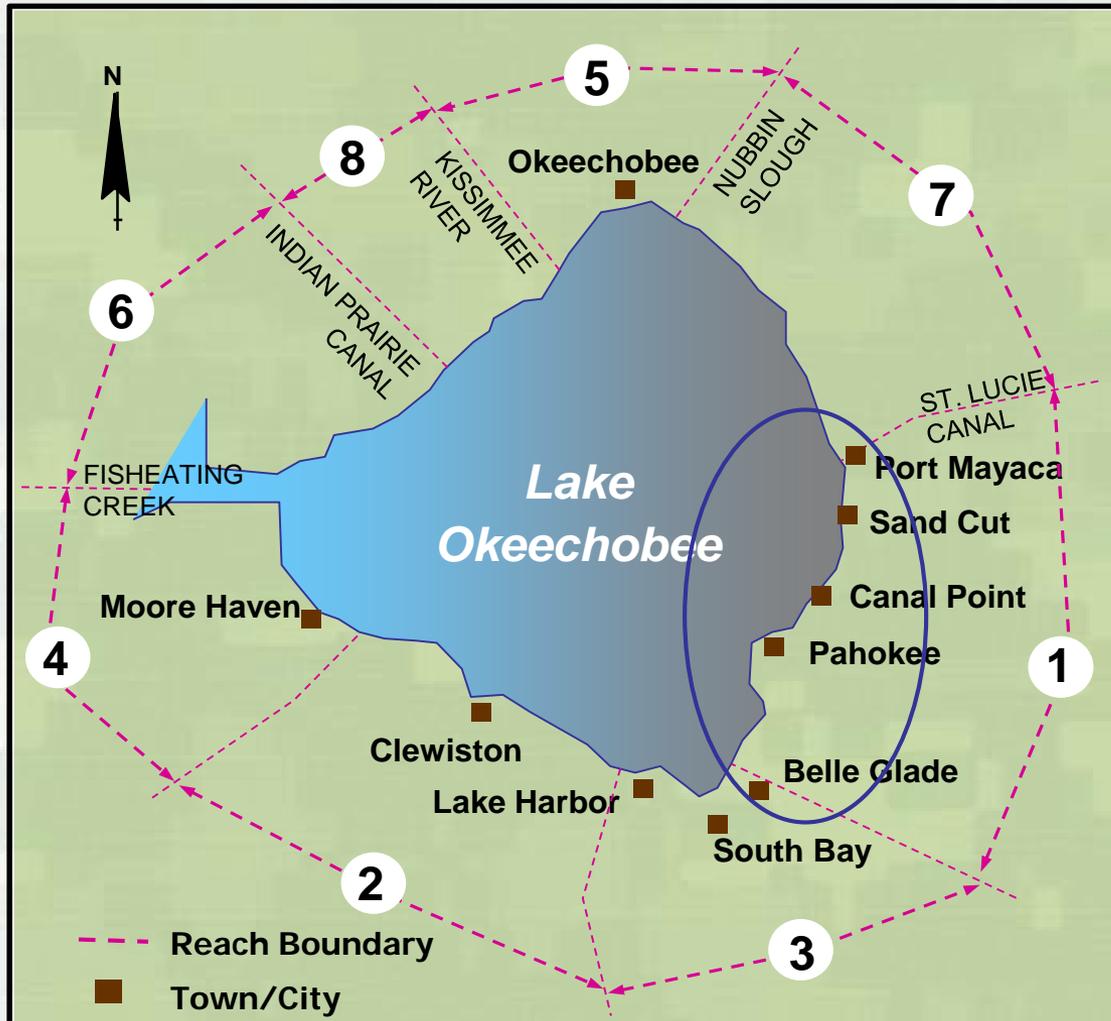


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Herbert Hoover Dike Solutions



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Major Rehabilitation Report (MRR) 2000

- Reach 1 initial phase
- Cutoff wall constructed

Federal Water Control Structure Culverts 2011

- 32 Federal Culverts within the entire HHD system
- Replacement or Removal

Dam Safety Modification Study (DSMS) 2016

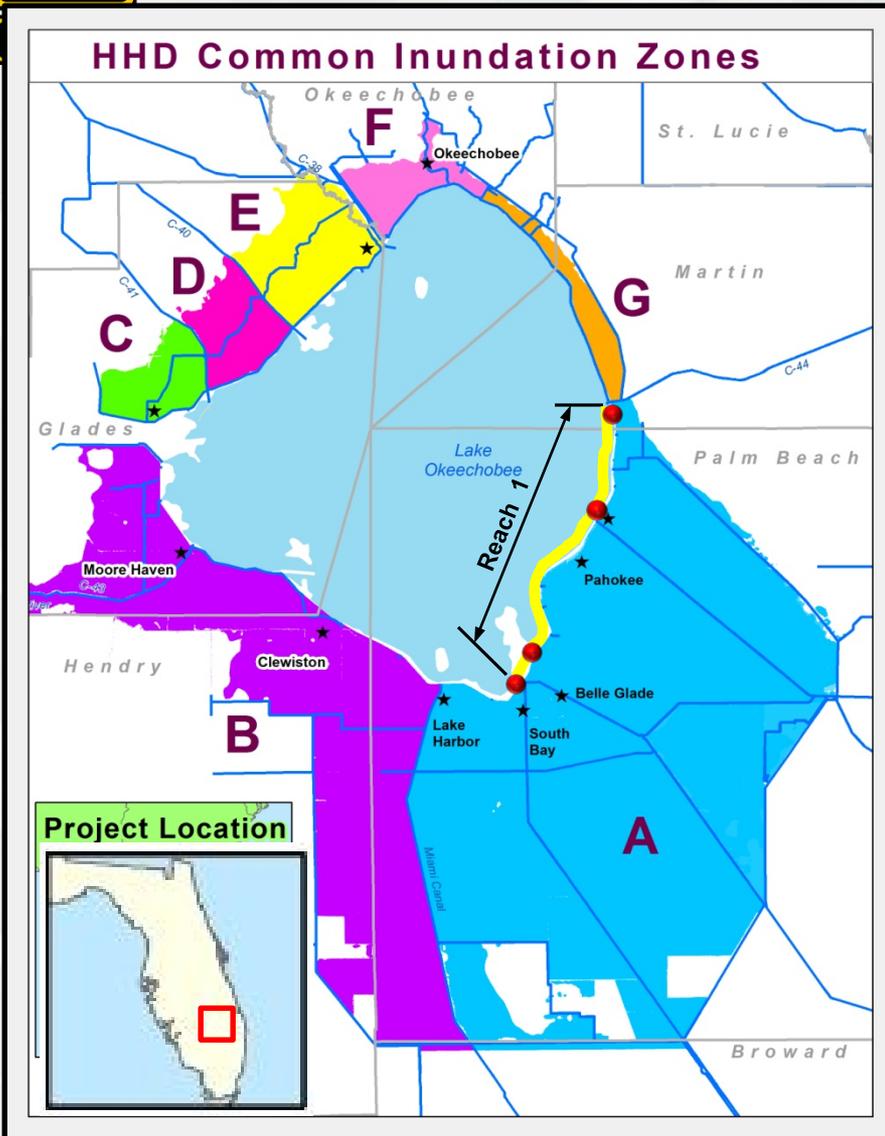
- System-wide approach
- Risk reduction measures below tolerable guidelines
- Prioritize Implementation



HHD Reach 1 Cutoff Wall



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Approval from 2000 HHD Major Rehabilitation Report

Completed – 21.4 miles of cutoff wall installed between 2007 and 2013

Planned – Cutoff wall tie-ins to 3 existing structures and 1 bridge with contract award in FY16

Complete the continuous seepage barrier through Reach 1 providing the risk reduction benefits to the adjacent communities

Reach 1 Cutoff Wall Status

Cutoff Wall Installation Complete



Cutoff Wall Gap Closures Planned

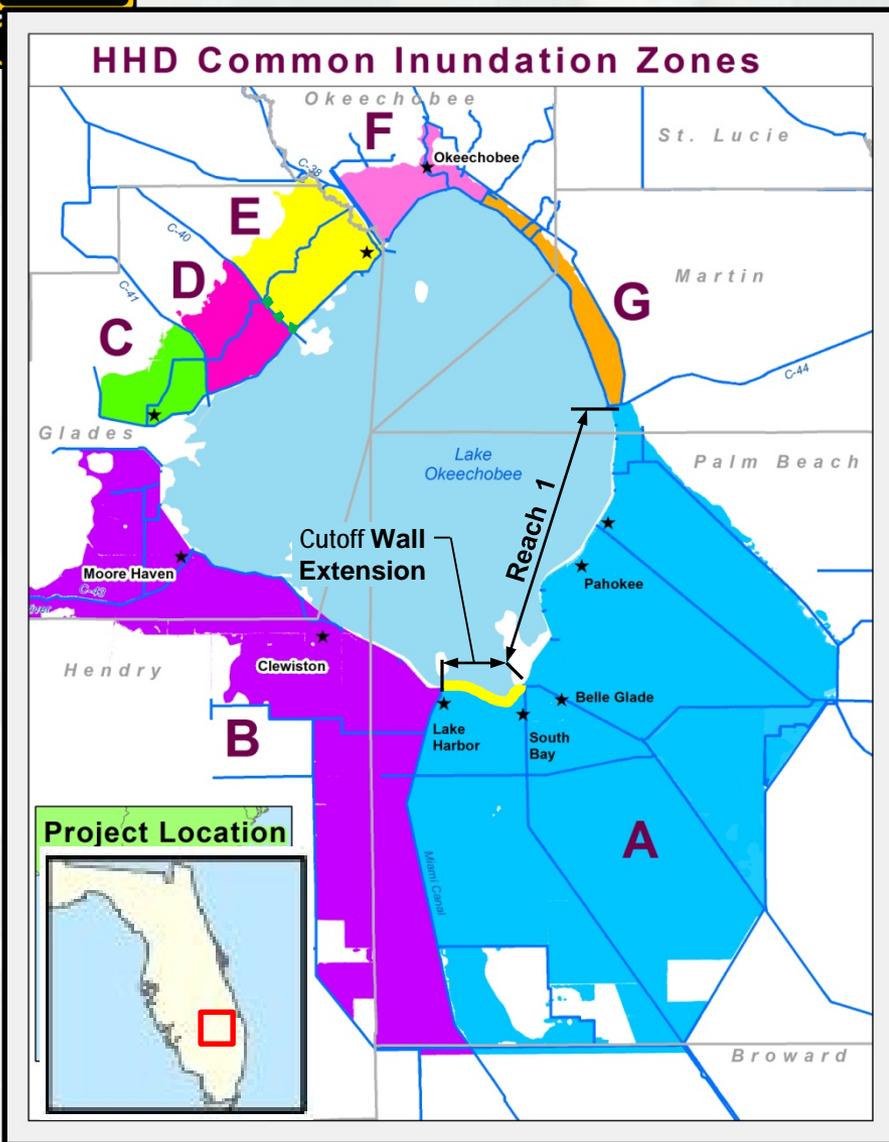




Reach 1 Cutoff Wall Extension



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Approval from 2015 HHD Major Rehabilitation Report Supplement

Planned – 6.6 miles of cutoff wall installed with contract award in FY17 and completion in 2020

Impact – Final embankment remediation project to complete repairs reducing risks to inundation Zone A

Complete the continuous seepage barrier through Inundation Zone A providing the risk reduction benefits to the adjacent communities and allow a recommendation for accreditation to FEMA for this area of HHD



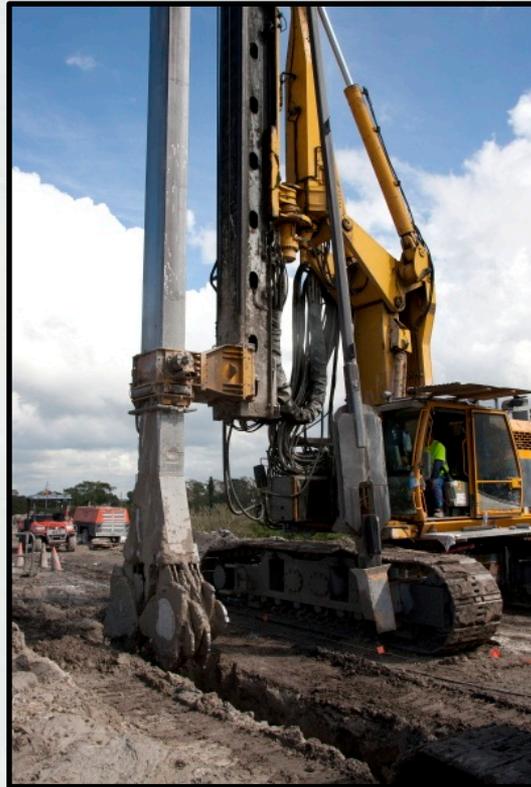
Cutoff Wall Construction



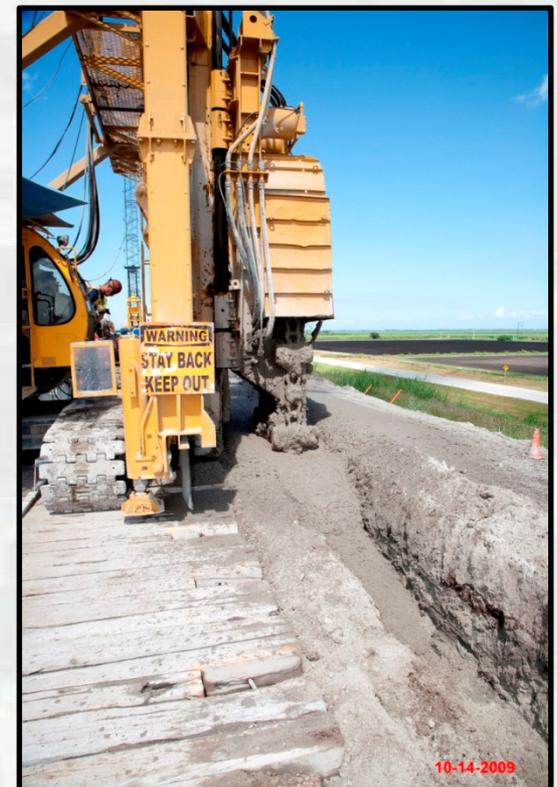
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Hydromill



Cutter Soil Mixer (CSM)



Trench Remix Deep (TRD)

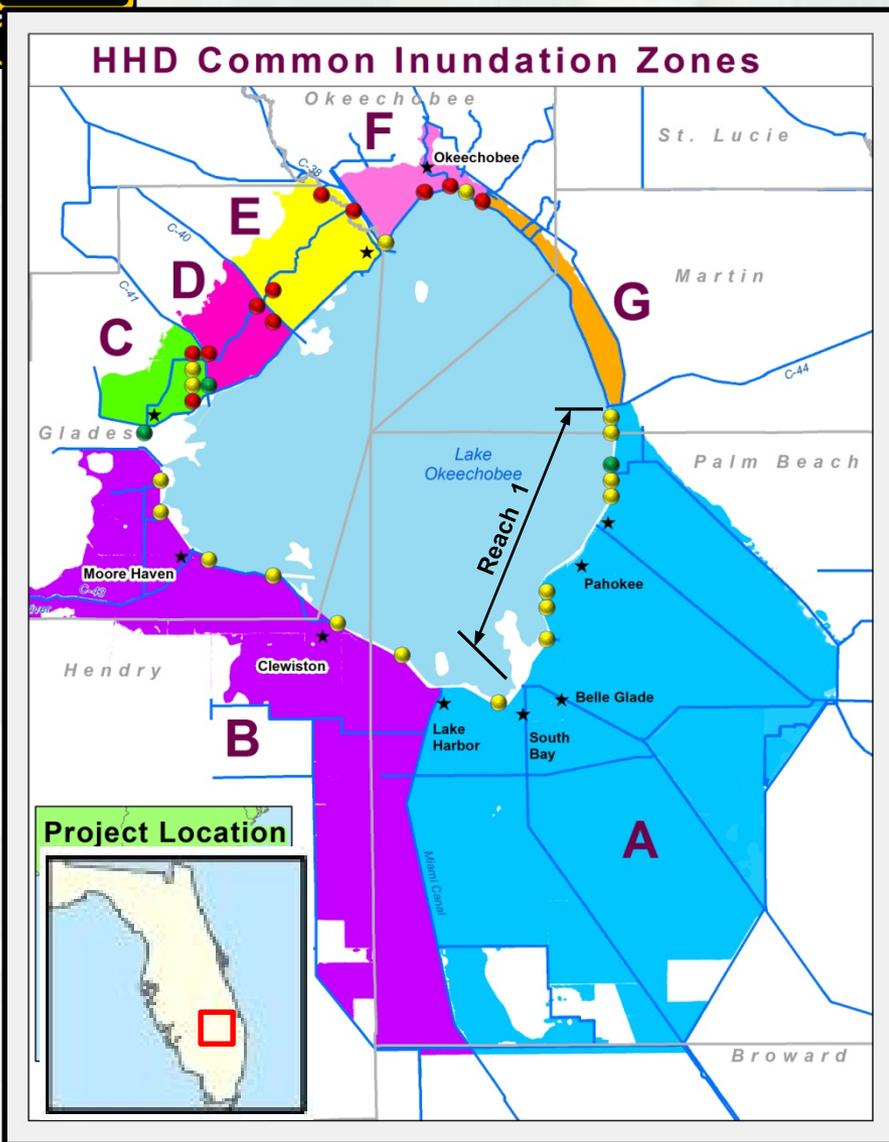
Three different contractor methods achieved the same performance criteria for completed cutoff wall in Reach 1



HHD Culvert Replacements



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Approval from 2011 HHD Culvert Letter Report

Completed – 1 removal and 2 replacements

Ongoing – 10 contracts with 18 replacements completed by 2020

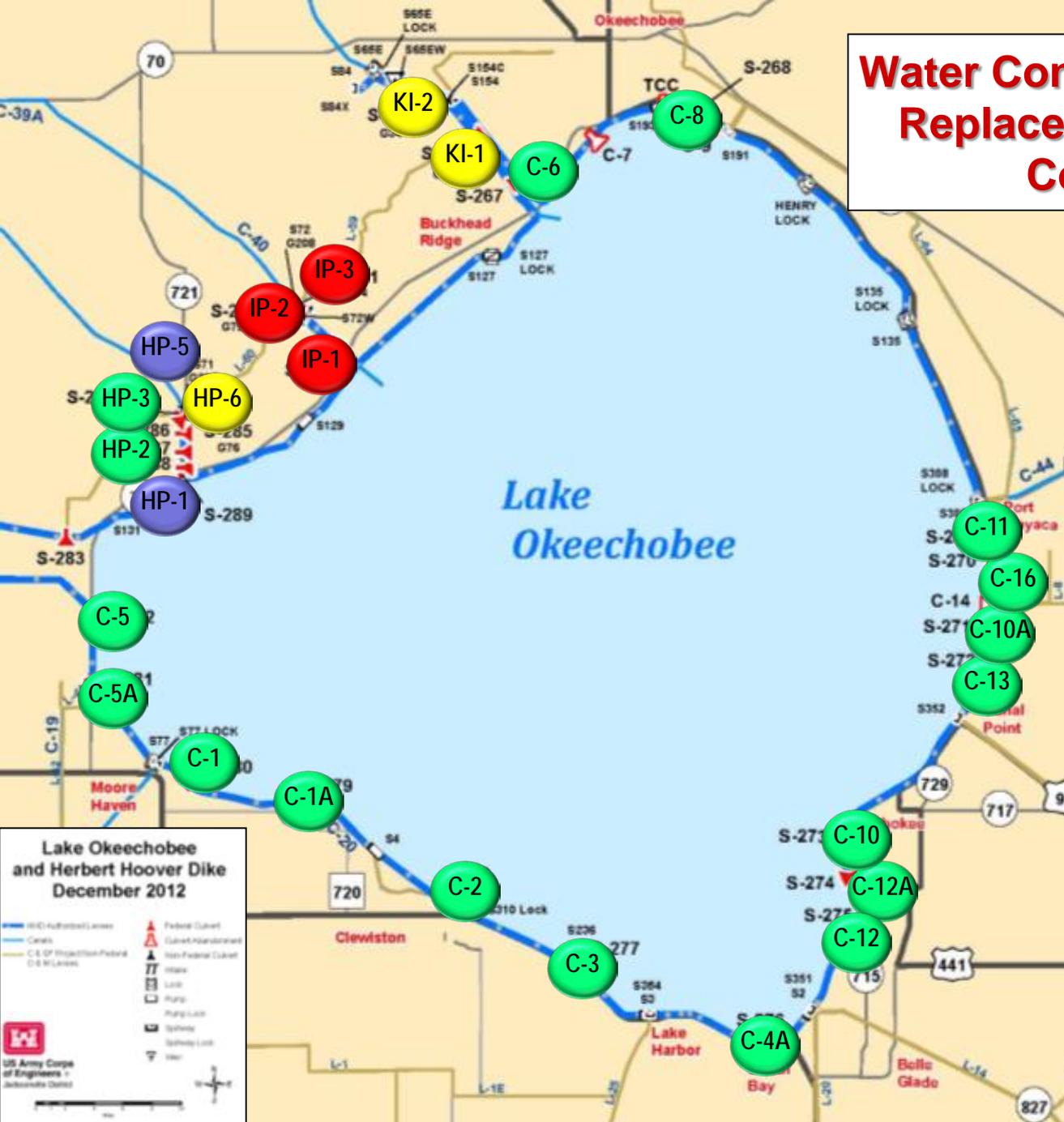
Planned – 6 contracts with 8 replacements; 3 contracts with 3 abandonments to be scheduled and completed by 2022

Complete repairs at the highest points of failure through the HHD system

Water Control Structure (Culvert) Status

- Construction Contract Complete ●
- Construction Contract Ongoing ●
- Construction Contract Planned ●

Water Control Structure (Culvert) Replacements - Construction Contract Awards



KEY	
4	FY 2011
2	FY 2012
6	FY 2013
2	FY 2014
4	FY 2015
3	FY 2016
3	FY 2017
2	FY 2018

Lake Okeechobee and Herbert Hoover Dike December 2012

- HEC Authorized Lanes
- Canals
- C.E.P. Hoopline-Federal
- C.E.P. Hoopline-Non-Federal
- C.E.P. Hoopline
- Federal Culvert
- Culvert Abandonment
- Non-Federal Culvert
- Lock
- Pump
- Pump Lock
- Spillway
- Spillway Lock
- Weir

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Culvert Replacement Phases



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Culvert 12 (S-275) - Excavation



Culvert 5A (S-281) - Foundation



Culvert 13 (S-272) - Reconstruction



Culvert 11 (S-269) - Completion



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Dam Safety Modification Study

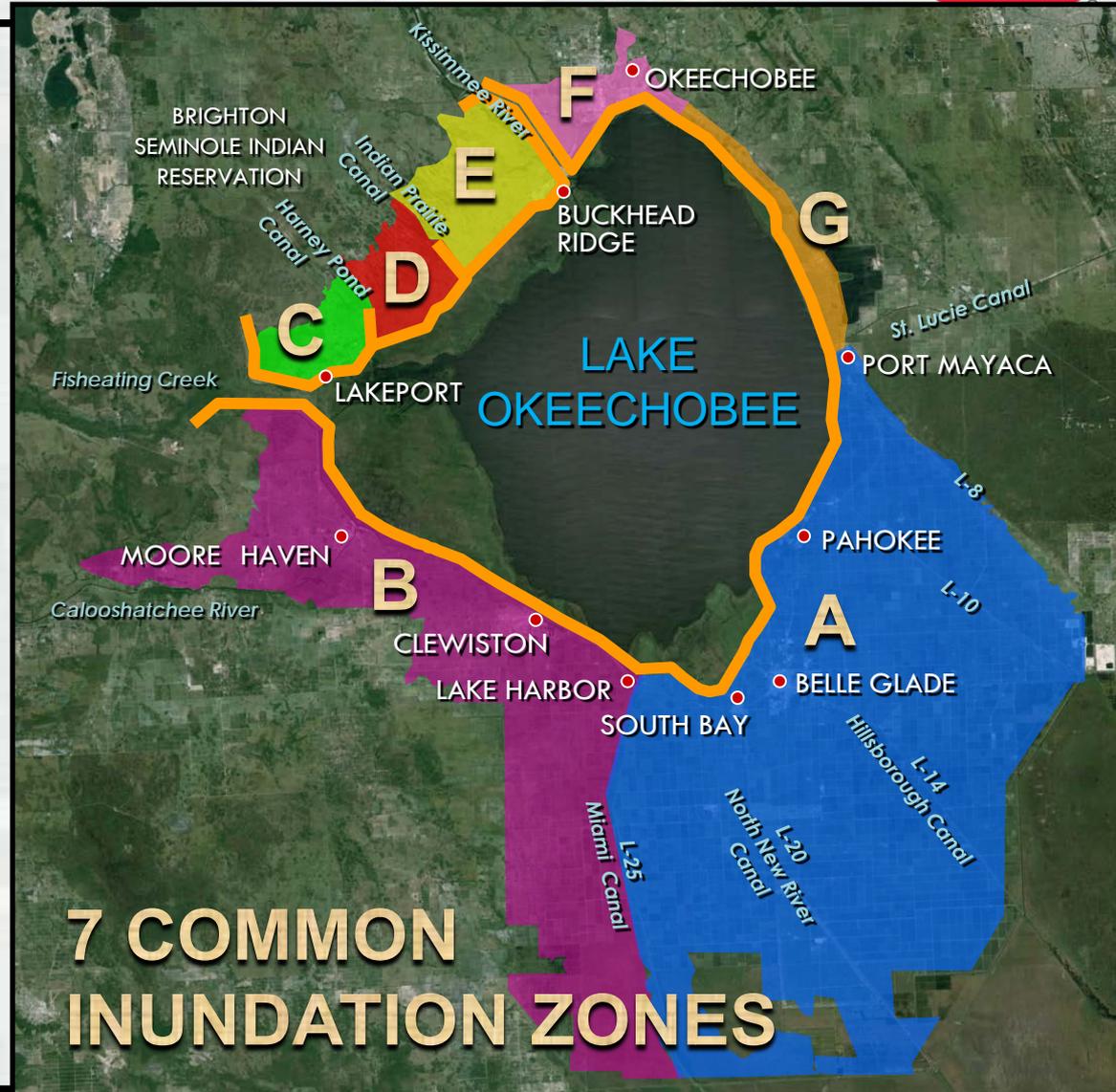


Risk Assessment – Analysis performed on 32 dam segments within the 7 common inundation zones to identify and prioritize remediation

Modification Report – DSMR is being reviewed with report approval in August 2016

Impact – Final measures to reduce the risks for the entire system around the lake

- Recommendation for FEMA accreditation by inundation zone to begin in 2016
- Construction project implementation in 2019
- Opportunity to begin regulation schedule study

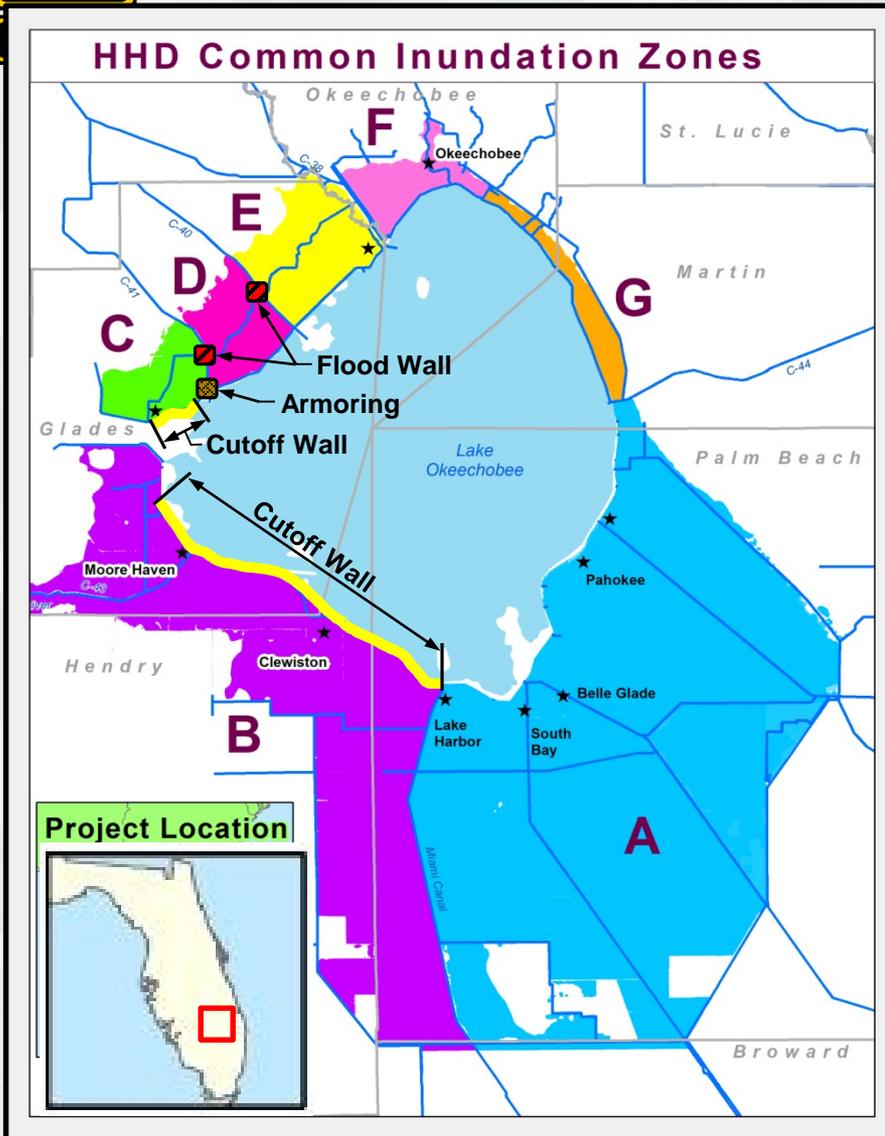




Dam Safety Modification Report



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Tentatively Selected Plan (TSP)

Approval by USACE Dam Safety Officer Required

Common Inundation Zone B

- 24.5 miles of cutoff wall

Common Inundation Zone C

- 4.1 miles of cutoff wall
- HP bridge abutment armoring

Common Inundation Zone D

- S-71 embankment flood wall
- S-72 embankment flood wall

Draft DSMR Tentatively Selected Plan

Cutoff Wall Locations	
Embankment Armoring Locations	
Embankment Flood Wall Locations	



Implementation Timeline



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Water Control Structures (Culverts)

- Southern part of HHD completed by 2020
- Northern part of HHD completed by 2022



Reach 1 Cutoff Wall Gap Closure

- Construction from 2016 to 2018

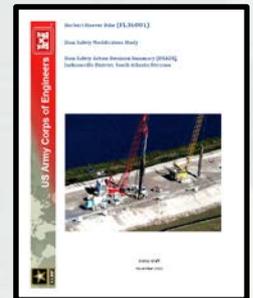
Reach 1 Cutoff Wall Extension

- Construction from 2017 to 2020



Dam Safety Modification Report (DSMR)

- Final EIS public review scheduled for July 2016
- DSMR approval scheduled for August 2016
- Construction start in 2019 with expected completion by 2025 (prioritization and funding dependent)



Questions?



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HERBERT HOOVER DIKE REHABILITATION PROJECT

Eduardo Marin, P.E.

U.S. Army Corps of Engineers

Jacksonville District

May 2016

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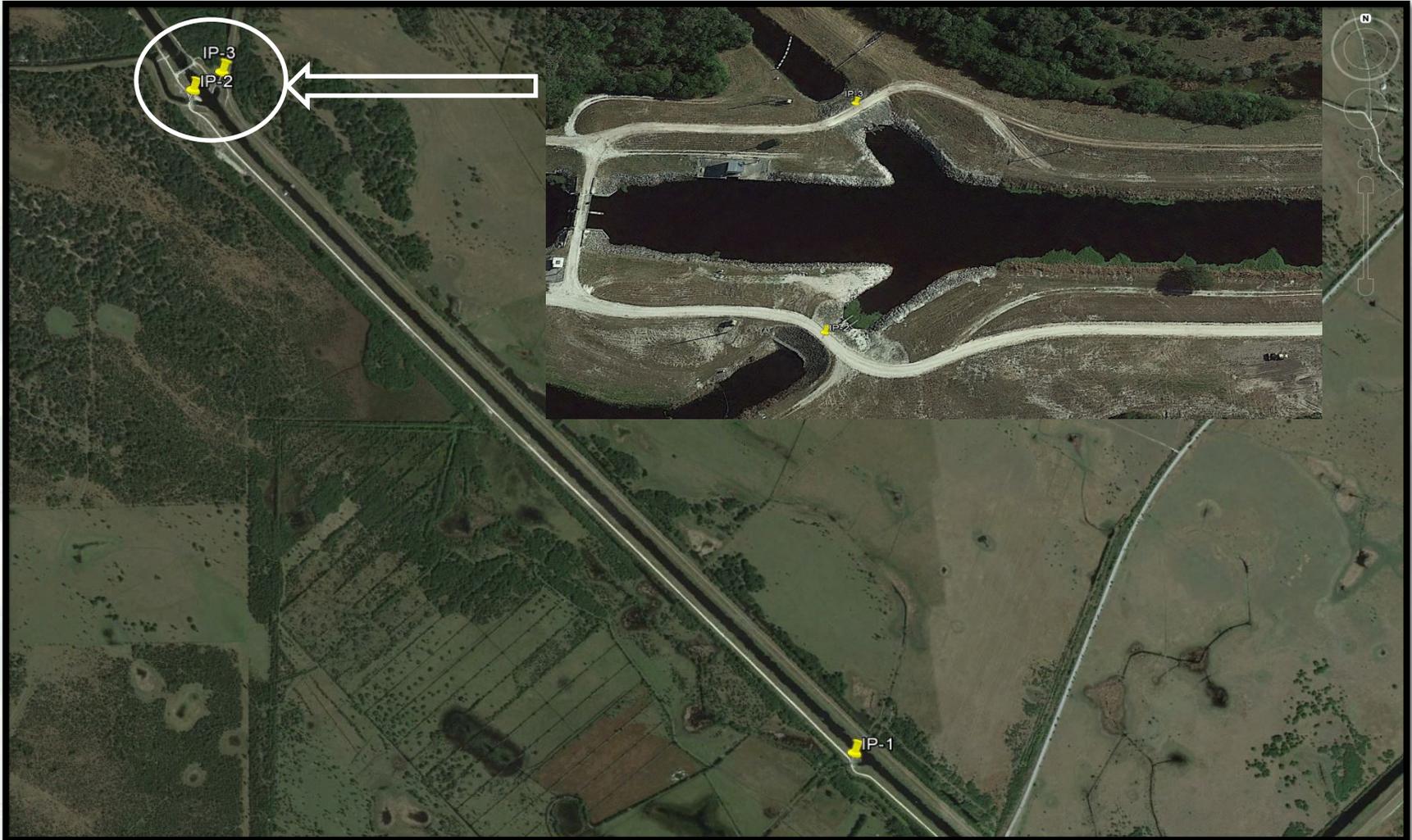


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Vicinity Map



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Current Configuration

- Completed in 1959
- Purpose: Flood damage reduction & irrigation.
- Two 8 ft CMP
- Slipped line with 6 ft CMP in 2002
- Flap gate control Lakeside
- Slide gate Control Landside
- Invert: 5.8 ft NAVD88

Proposed Configuration

- Two 7ft by 7 ft Concrete Box Culvert
- Slide flap comb gate on lakeside
- Dual leaf gates on landside
- Invert: 7 ft NAVD88



IP-3 Existing Conditions



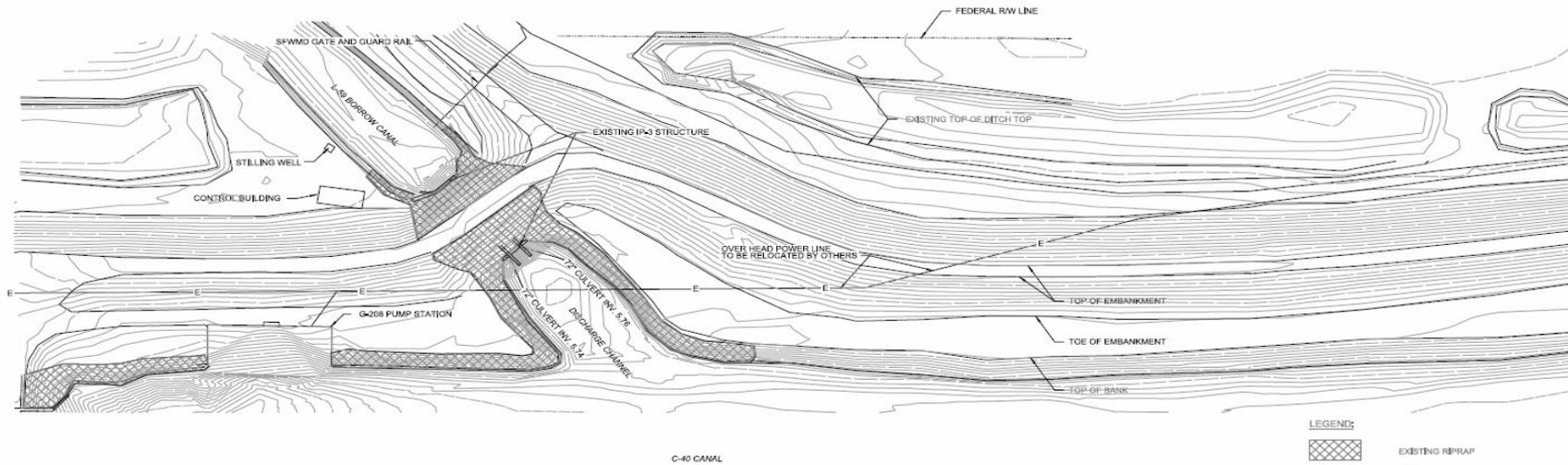
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SURVEY NOTES:

- HORIZONTAL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (2011), FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, US SURVEY FEET. NOS COORDINATES WERE USED TO CONTROL THE SURVEY, THE COORDINATES WERE ESTABLISHED FROM STATIC GPS OBSERVATIONS AND PROCESSING THROUGH THE NATIONAL GEODETIC SURVEYS DOPUS WEBSITE.
- ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) US SURVEY FEET.
- PROJECT CONTROL:

PIDName	Northing	Easting	Elevation (NAVD88)
AE5412A	436961426.30	665235.58	31.15
AE6418F	4381019803.SC	638980.SC	28.02
AE5414PCZ	45441002830.SC	664100.SC	25.84
AJ5177M	5231000461.45	674201.04	32.18
AE5388P	437986180.5C	619520.SC	28.43
AJ5181R	523981831.86	657814.60	32.70
AF6695W	3571057658.84	668843.24	30.42

- NOTE: COORDINATES DENOTED WITH ".5C" ARE SCALED VALUES AND ARE NOT TO BE USED FOR HORIZONTAL CONTROL VALUES.
- A HYDROGRAPHIC SURVEY UTILIZING SINGLE-BEAM SONAR OF INDIAN PRAIRIE C-40 CANAL WITHIN THE PROJECT LIMITS WAS CONDUCTED. RTK WAS UTILIZED FOR HORIZONTAL AND VERTICAL POSITIONING OF ALL HYDROGRAPHIC DATA ACQUISITION.
 - SINGLE BEAM HYDROGRAPHIC DATA WAS COLLECTED UTILIZING HIGH FREQUENCY (200 KHZ).
 - TO EXPLORE FOR THE PRESENCE OF SOFT AND/OR UNSUITABLE SOILS, MUCK PROBES WERE PERFORMED. THE MUCK PROBES WERE CONDUCTED BY HAND PUSHING A 1" DIAMETER RANGE POLE INTO THE GROUND UNTIL PENETRATION WAS REFUSED ALONG EACH HYDROGRAPHIC CROSS SECTION WITHIN PRE DEFINED AREAS ADJACENT TO THE STRUCTURE.
 - FIELD DATA COLLECTED BETWEEN 22 JUNE 2013 AND 28 JULY 2013.
 - REFER TO SURVEY 13-076.



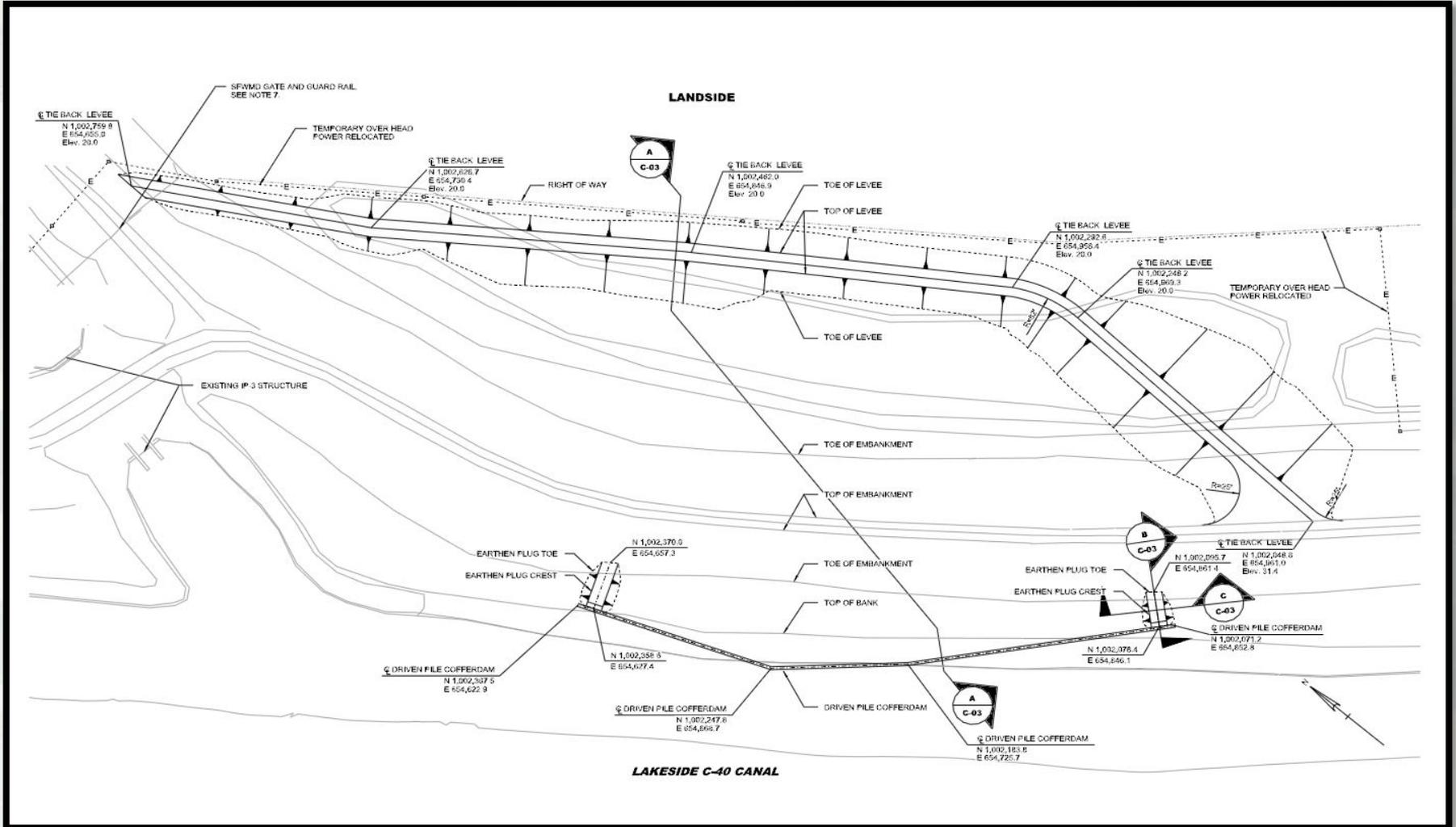


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IP-3 Cofferdam



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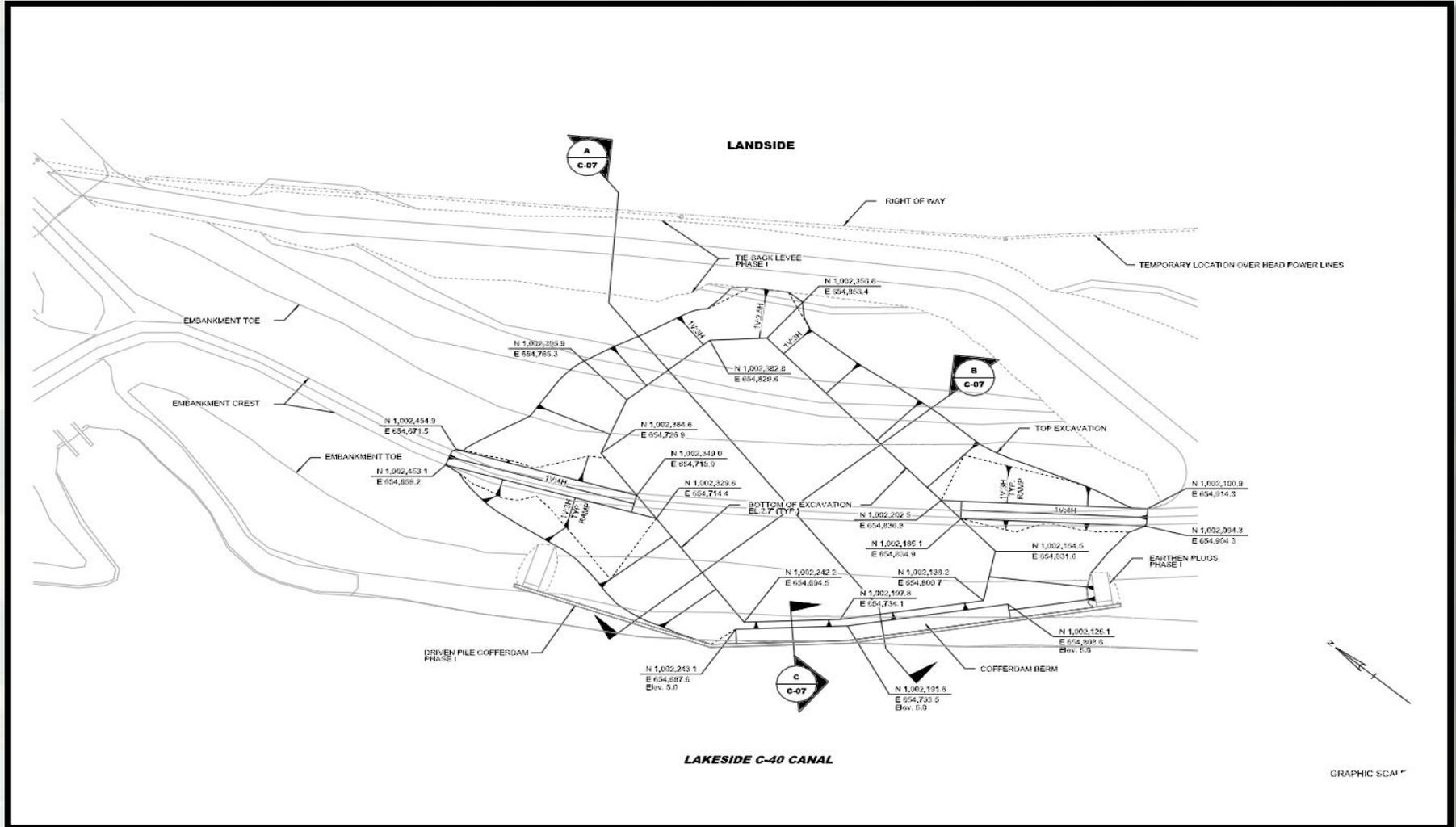




IP-3 Excavation Pit



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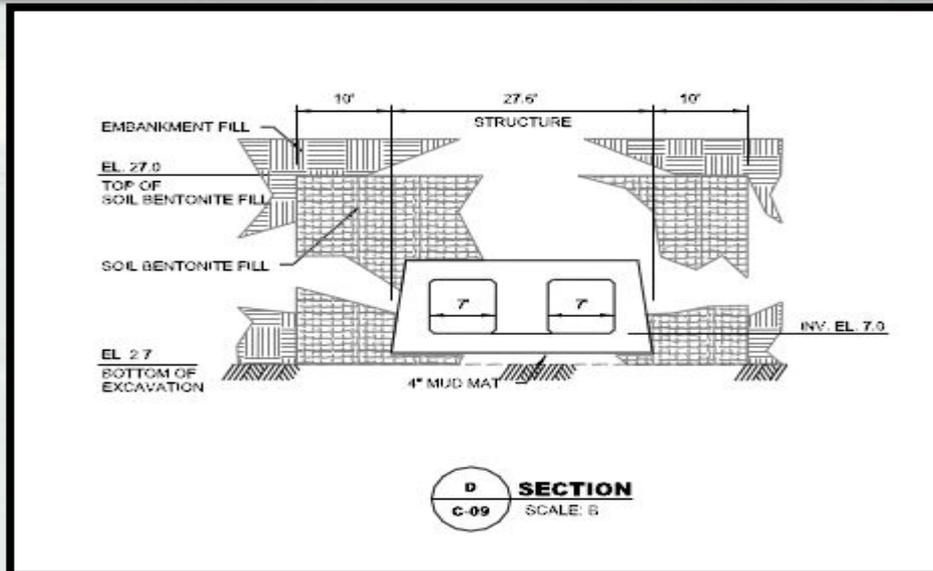
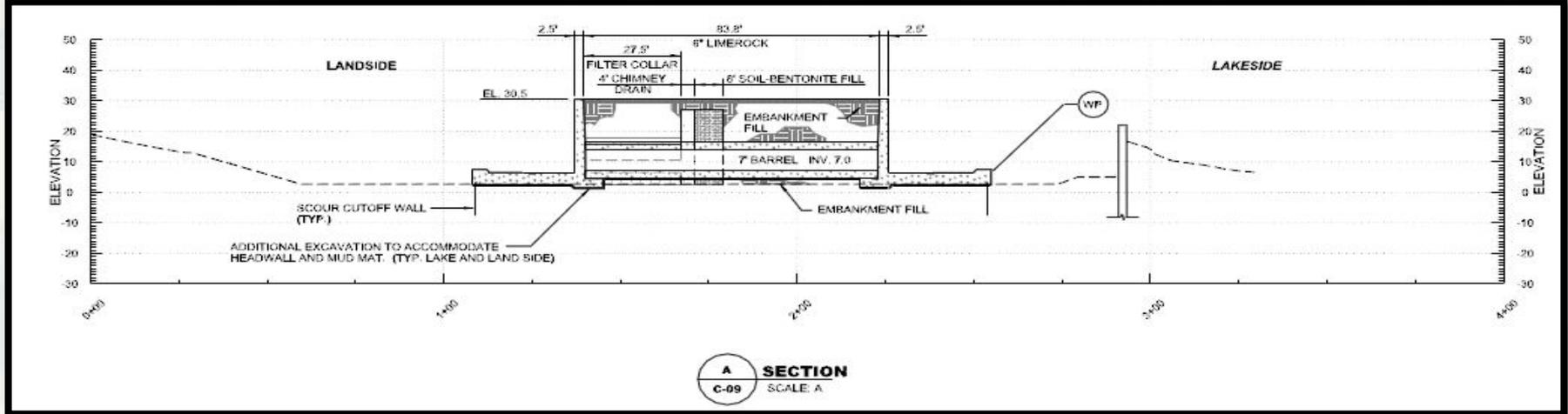


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IP-3 Structures X-sections



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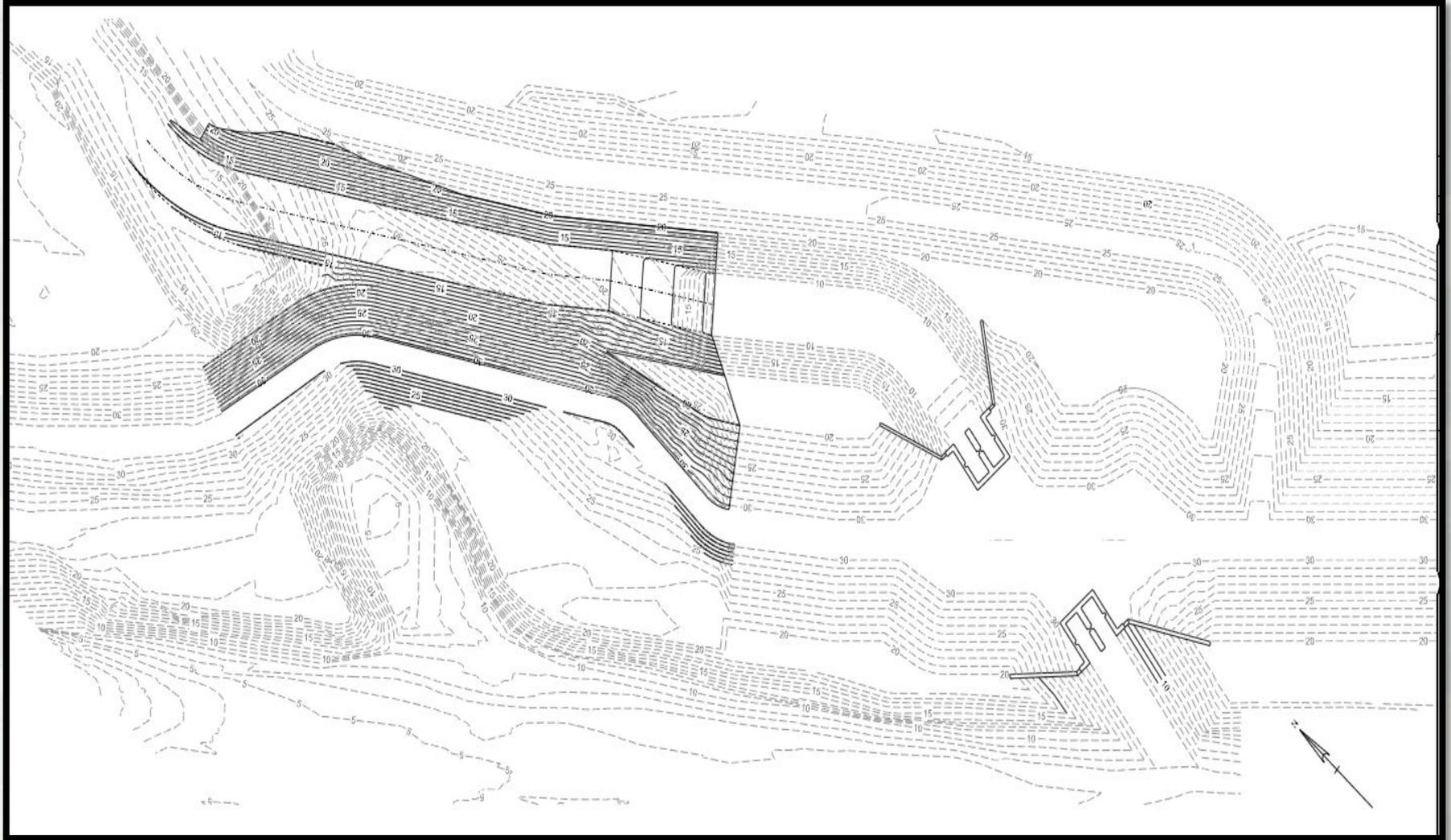


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IP-3 Site Plan Part 1



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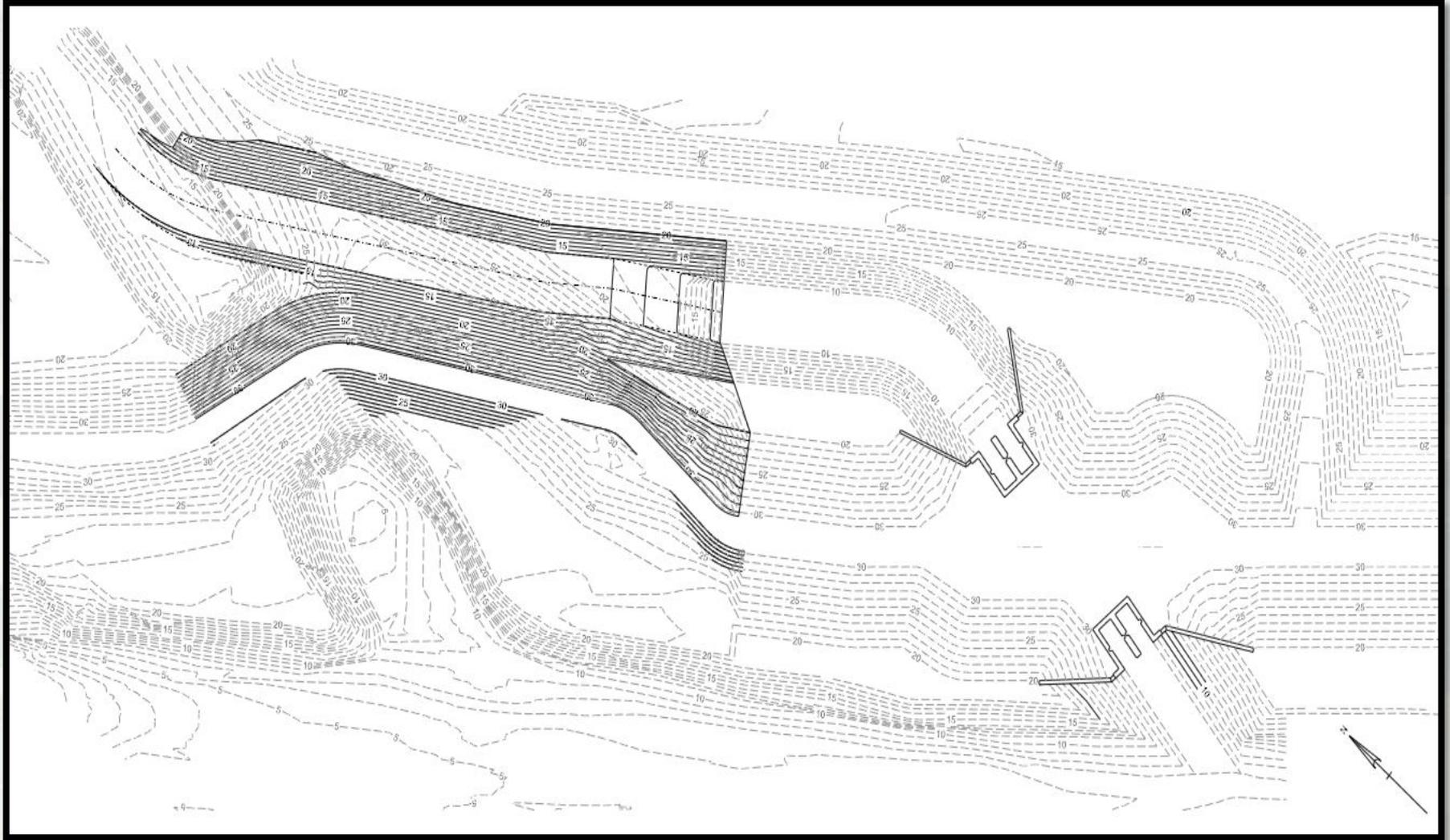


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IP-3 Site Plan Part 2



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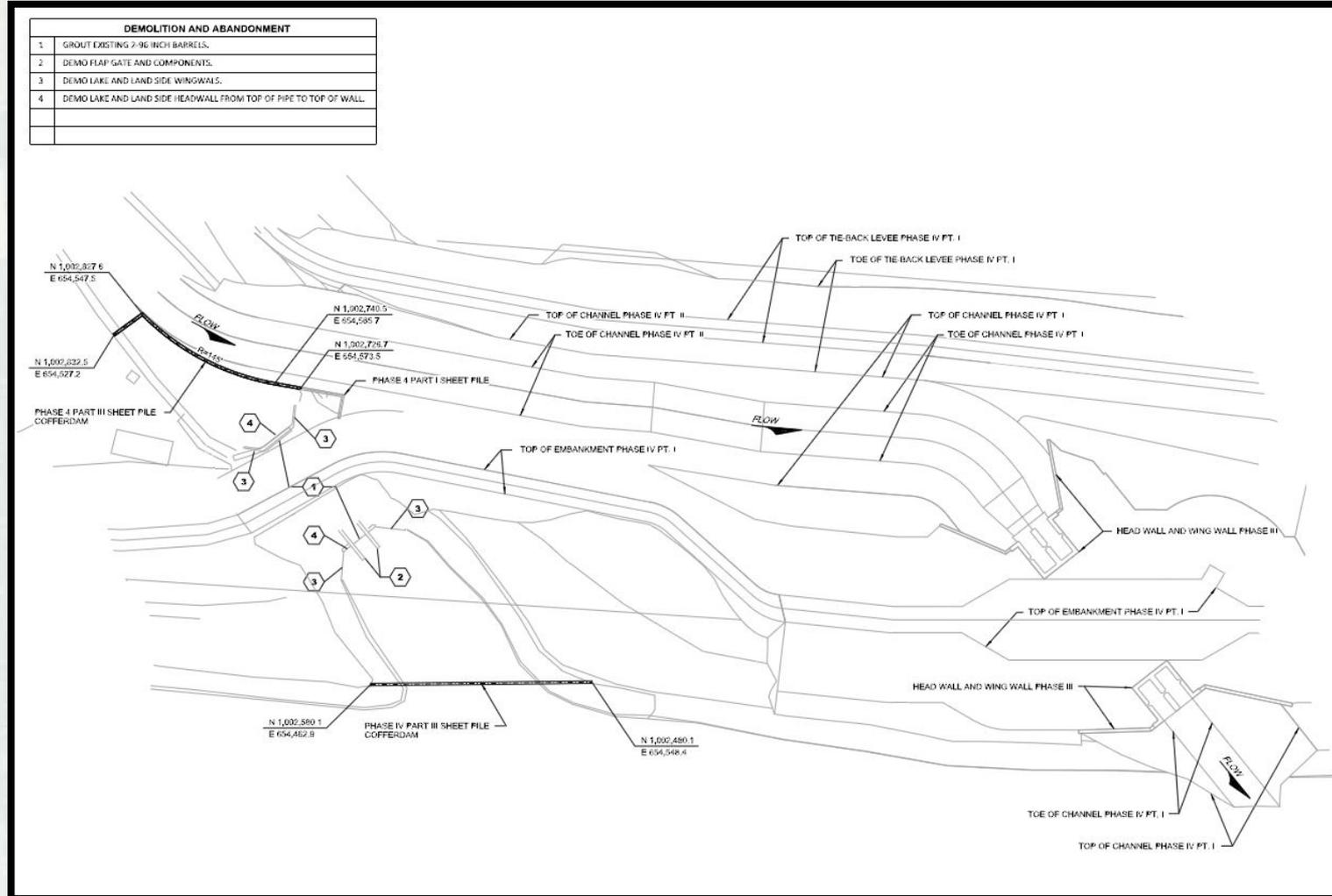
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IP-3 Demo & Abandonment Plan



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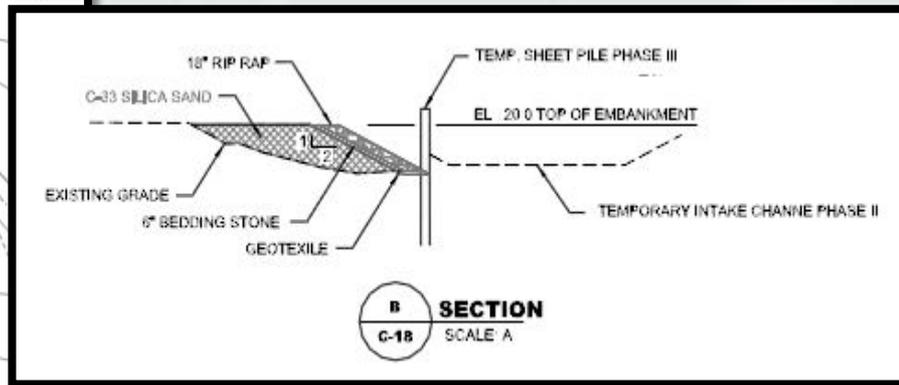
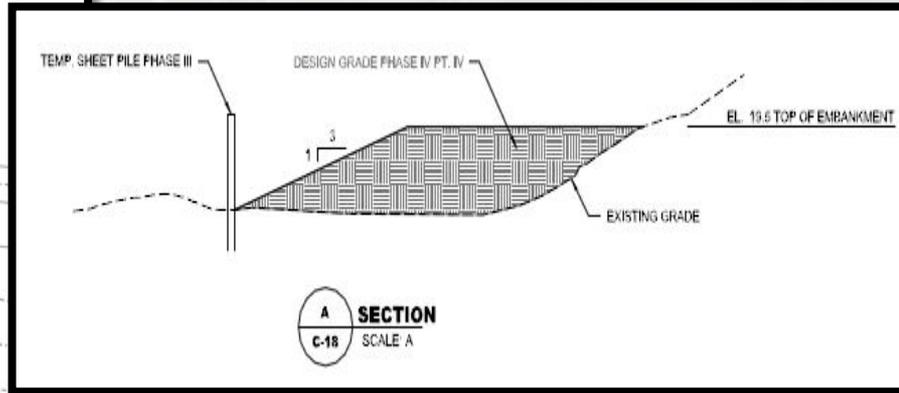
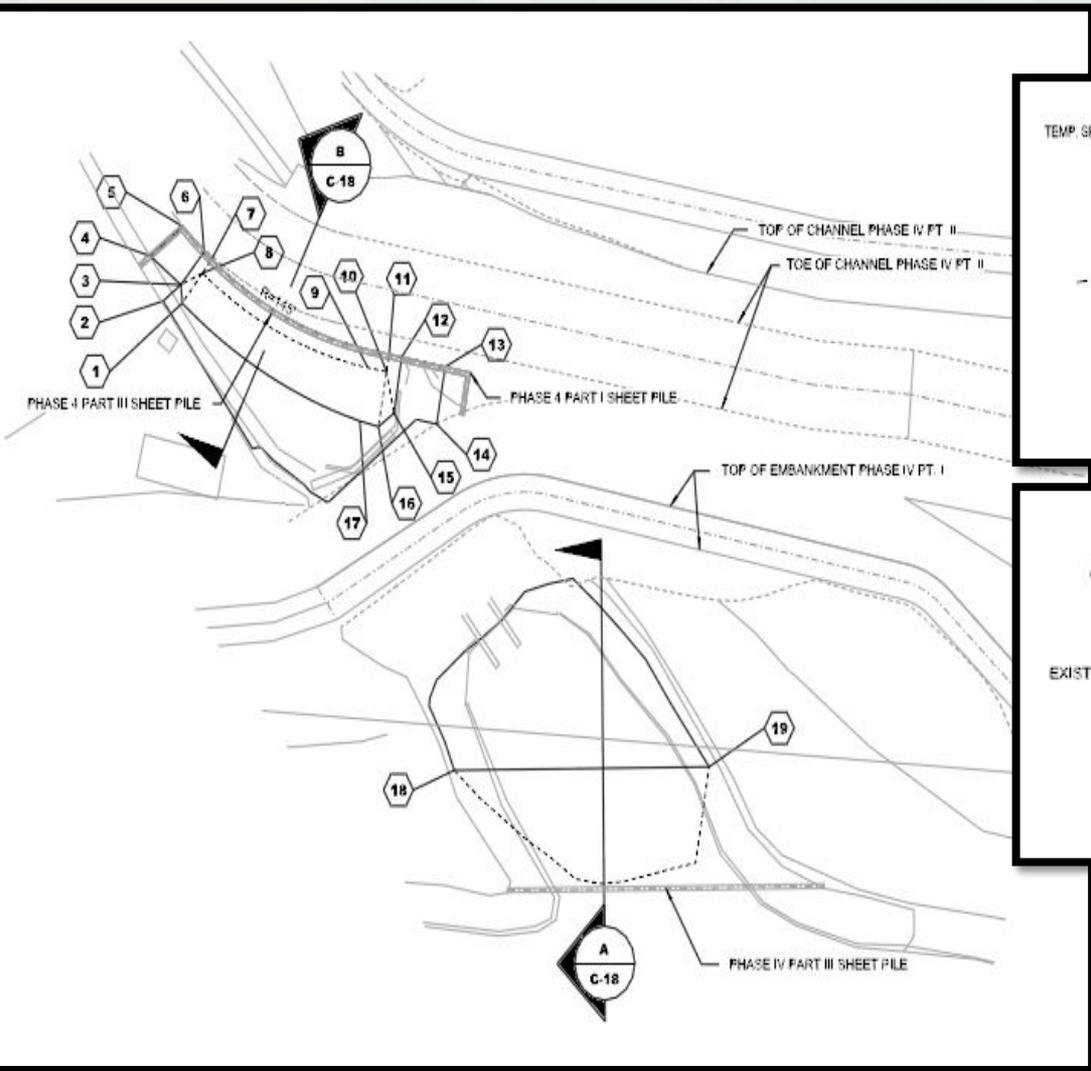




IP-3 Demo & Abandonment Details



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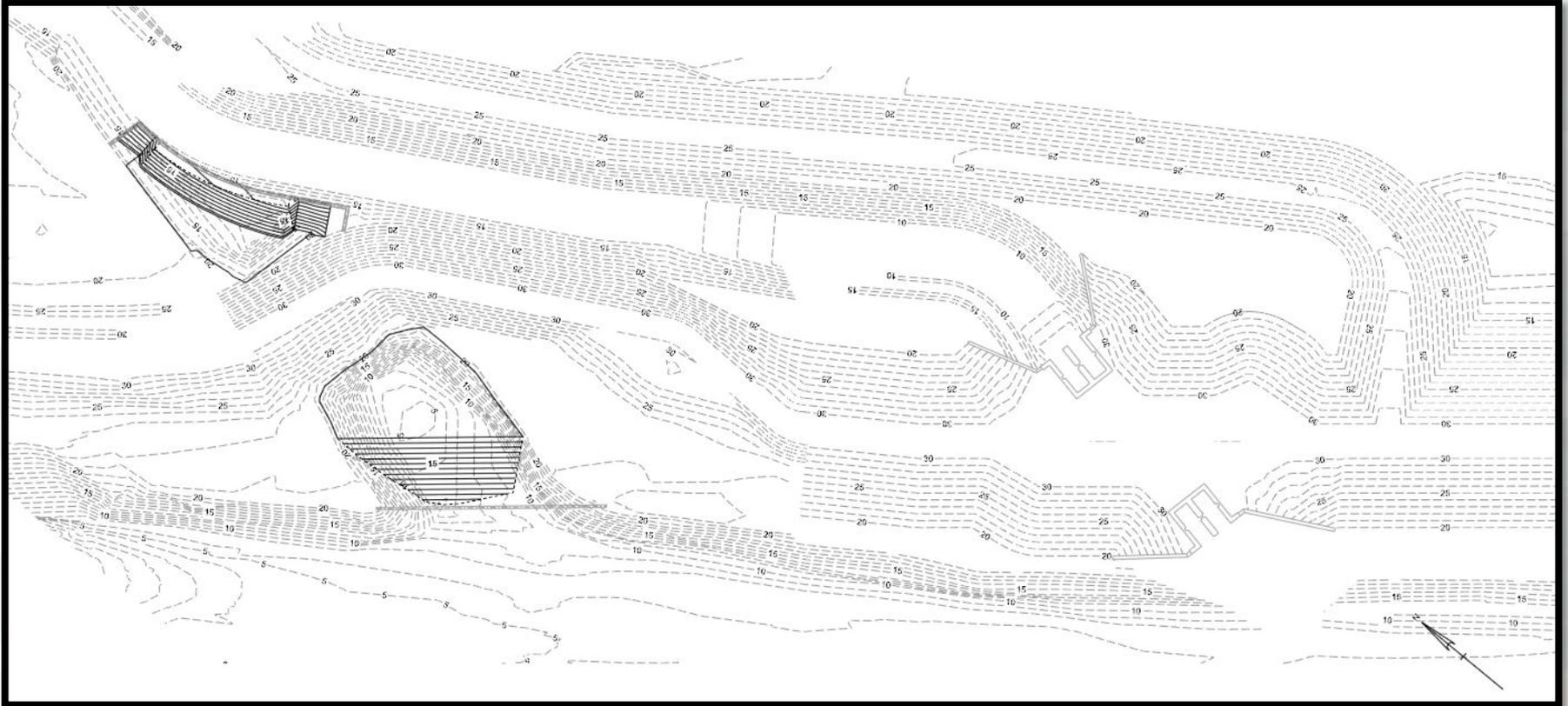




IP-3 Demo & Abandonment Details



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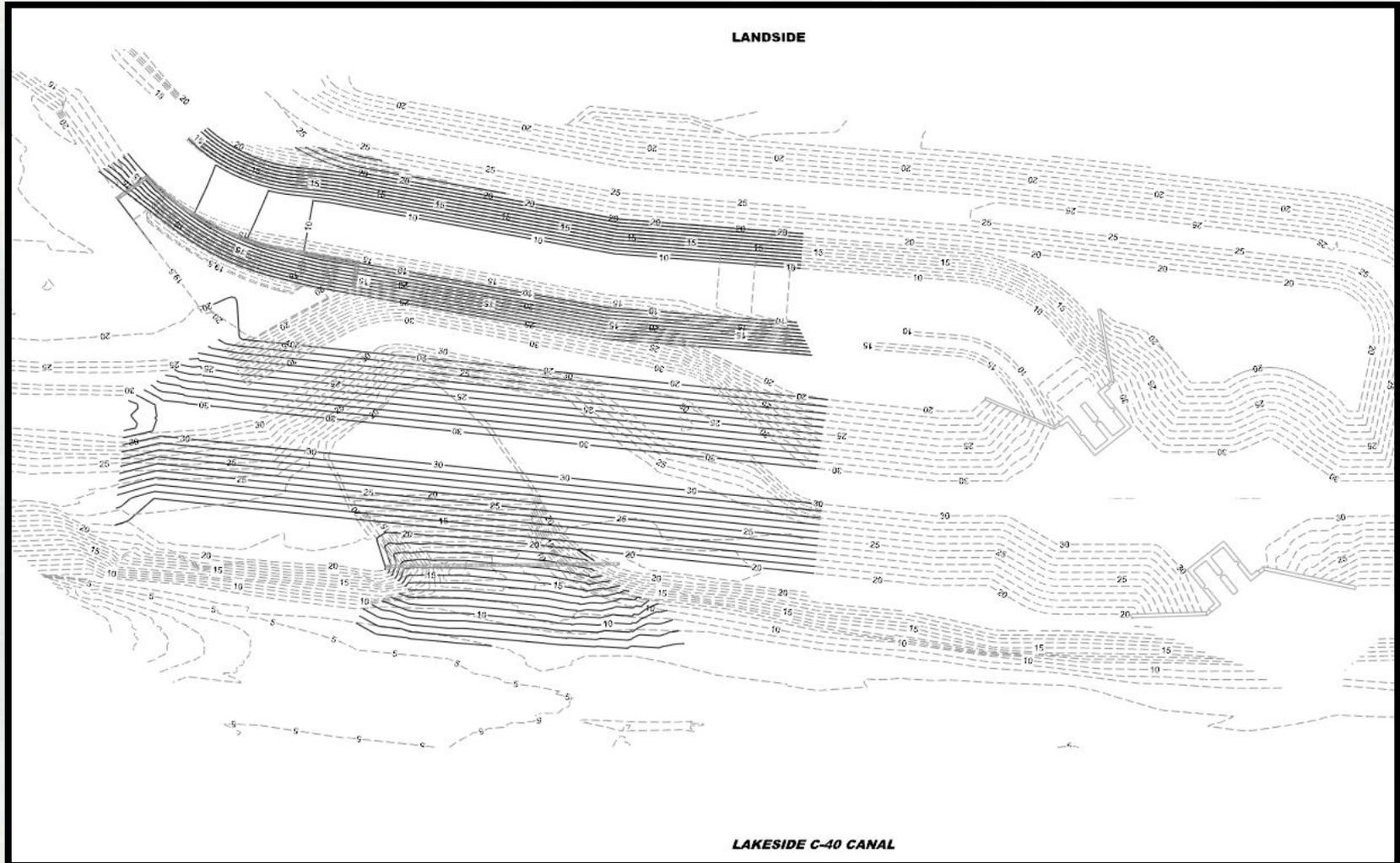


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IP-3 Final Site Plan



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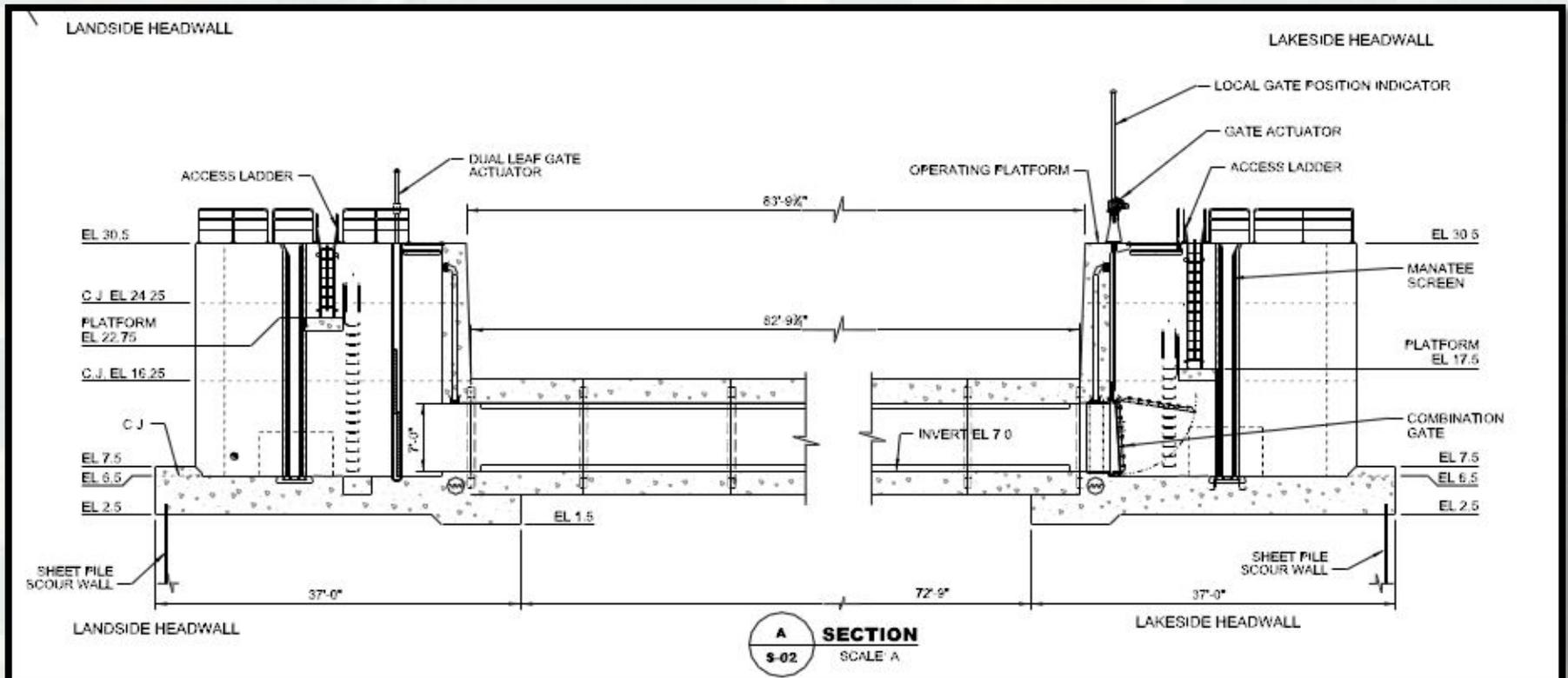


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IP-3 Structural Plan & Profile



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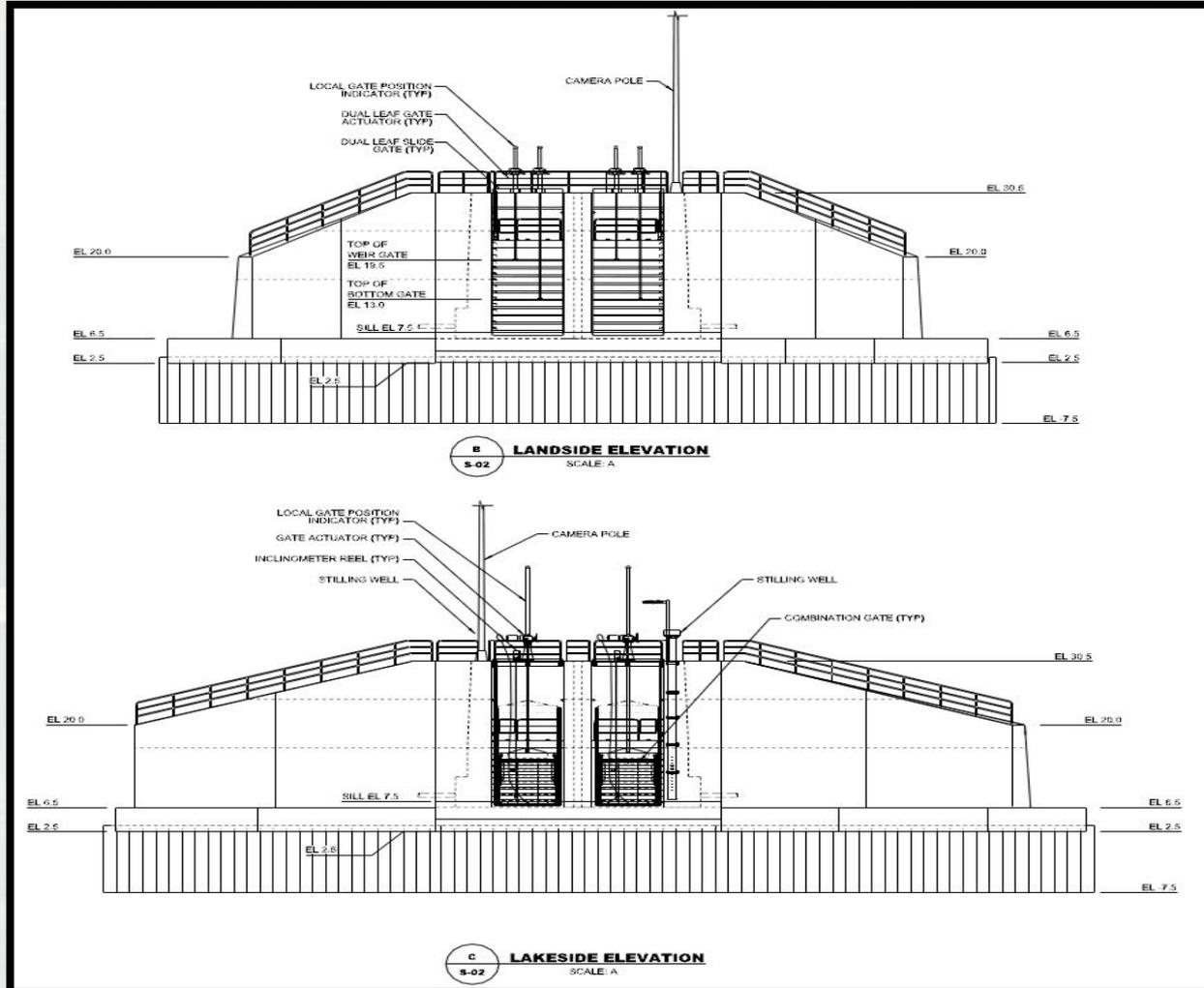


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IP-3 Headwall Details



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Questions?



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Rehabilitation Structure IP-3

Contracting Overview

Claurice Dingle
Contract Specialist



Contracting Process



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- Solicitation issued (typically 30 Calendar days)
- Proposals received
- Evaluations conducted
- Award (typically within 60 calendar days after receipt of proposals)
- Debriefings conducted



Procurement Strategy



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- Best Value Continuum
 - ▶ Award will be made based on the best overall (best value) proposal that is deemed the most beneficial to the Government, with appropriate consideration given to the evaluation factors
 - ▶ To receive consideration for award, a rating of no less than “Acceptable” must be achieved for the technical merit factor.



Best Value Continuum



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- Permits tradeoffs between cost/price and non-cost factors
- Allows the Government to award to other than the lowest priced proposal
- Be aware, award may not necessarily be made to the lowest price offeror or the most highly rated offeror



Technical Factors



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- Examples:
 - ▶ Technical Approach of the offeror
 - ▶ Management capabilities of the offeror
 - ▶ Key personnel qualifications
 - ▶ Specialized Experience

Note: Technical Factors and sub-factors are listed within each solicitation as well as the importance of each.



Other Factors



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- Past Performance
 - ▶ Evaluated for relevancy and performance, ending with a confidence assigned
- Small Business Participation
- Price
 - ▶ Evaluated to be fair and reasonable

Note: Each Factor is listed in each solicitation as well as the level of importance of each.



SMALL BUSINESS PARTICIPATION

Beth Myers, Deputy Small Business



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SMALL BUSINESS OPPORTUNITIES

FAR 19.201 – Government policy

(a) It is the policy of the Government to provide maximum practicable opportunities in its acquisitions to small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns. Such concerns must also have the maximum practicable opportunity to participate as subcontractors in the contracts awarded by any executive agency, consistent with efficient contract performance.

- Small Business Participation
- Subcontracting Plan (Large Business concerns only)

FAR 19.701 “Subcontract”

Any agreement (other than one involving an employer-employee relationship) entered into by a Government prime contractor or subcontractor calling for supplies and/or services required for performance of the contract/or subcontract.



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SMALL BUSINESS PARTICIPATION

Factor 3: Small Business Participation

- All offerors both other than small and small businesses will be evaluated on the extent of the planned participation of U.S. Small businesses in the performance of this acquisition and past performance of the offeror in complying with the requirements of the clauses FAR 52.219-8, Utilization of Small Business Concerns and 52.219-9, Small Business Subcontracting Plan.



- Small participation goals shall be incorporated into the proposal for other than small and small business concerns.

- There are two subfactors under this factor and they are not rated separately:

1. Proposed Small Business Participation Plan
2. Past Utilization of Small Business Concerns



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SMALL BUSINESS/SUB-CONTRACTING

SUBCONTRACTING PLAN	SMALL BUSINESS PARTICIPATION
Plan is pass/fail based on the criteria IAW the solicitation	Evaluates overall SB(all categories) participation and is a rated evaluation factor
Requires 11 items in accordance with FAR 19.704 and 52.219-9	Requires evaluation of extent to which offerors identify & commit to SB and is separate from the subcontracting plan
Based on total subcontracted dollars	Based on total value of the acquisition
Does not apply to Small Business concerns	Applies to Small Business concerns



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SMALL BUSINESS PARTICIPATION

SUBFACTOR 1 - Proposed Small Business Participation Plan

- All offerors (both other than small and small) shall submit a Small Business Participation Plan(SBPP) using the template found at Attachment (4). A minimum Small Business Participation goal of 20% of Total Contract Value has been assigned to this procurement.
 - Large businesses primes may achieve the small business participation goals through subcontracting to small businesses.
 - Small business primes may achieve small business participation goals through their own performance/participation as a prime and also through subcontracting to other small businesses.



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SMALL BUSINESS PARTICIPATION

SUBFACTOR 1 - Proposed Small Business Participation Plan

Small Business Participation Plans (from other than small and small businesses) will be evaluated on the basis of:

- The extent to which such firms, as defined in FAR Part 19, are specifically identified in the proposal;
- Identification of the complexity and variety of the work small business firms are to perform;
- The extent (ie. length of and formality considerations) of demonstrated commitment to use such firms (enforceable commitments (JV, MP or written teaming agreements) will be considered more favorably than non-enforceable ones; refer to Attachment 4;
- The extent of participation of Prime offerors(both large and small) and small business subcontractors in terms of the total value of the acquisition vs the large business participation percentage;
- The extent to which the offeror meets or exceeds the suggested socioeconomic category goals. These goals are a percentage of the value of the total acquisition. **A minimum Total Small Business Participation goal of 20% of the total contract value is assigned to this acquisition.**

In addition to the minimum Small Business Participation goal of 20% of the TOTAL contract value, the following goals are SUGGESTED for the individual socioeconomic categories and determined to be reasonable based on market research for this requirement. Goals are based on % of TOTAL contract value:

- {3%} Small Disadvantaged Business
- {3%} Woman-Owned Small Business (WOSB)
- {3%} Historically Underutilized Zone (HUB Zone) Small Business
- {2%} Veteran Owned Small Business (VOSB)
- {1%} Service Disabled Veteran Owned Small Business (SDVOSB)



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SMALL BUSINESS PARTICIPATION

(1) Check the applicable size and categories for the PRIME offeror -- Check all applicable boxes:

Large Prime

OR

Small Business Prime; also categorized as a

Small Disadvantaged Business

Woman-Owned Small Business

HUB Zone Small Business

Veteran Owned Small Business

Service Disabled Veteran Owned Small Business

(2) Percentage of Total Contract Dollars/Price

(a) Total Contract Value: (Include options, etc) \$_____

(b) Dollar Value of your participation as a Prime Contractor: \$_____

(c) Submit the total combined percentage (must equal 100%) and dollars (must equal total contract value (2(a))) of work to be performed by both large and small businesses (include the percentage of work to be performed both by Prime and Subcontractors): Example: If Prime proposes a price of \$1,000,000 (including all options), and small business(es) will provide \$250,000 in services/supplies as a prime or subcontractor, the % planned for small businesses is 25%; and 75% for large business equaling 100%.

Total percentage planned for Large Business(es) _____ % = \$ _____

Total Percentage planned for Small Business(es) _____ % = \$ _____

Total of both large and small business 100% = \$ _____



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SMALL BUSINESS PARTICIPATION

(3) Indicate the total percentage of participation to be performed by each type of small business. The percentage of work performed by Small Businesses that qualify in multiple small business categories may be counted in each category:

NOTE! SDVOSBs are automatically VOSBs; however VOSBs are not automatically SDVOSBs.

Dollar Value and Percentage of Total Contract Value of Subcontracts Planned For:

	Dollar Value	Percentage of Total Contract Value
Small Disadvantaged	\$_____	%_____
Woman-Owned Small	\$_____	%_____
HUB Zone Small	\$_____	%_____
Veteran Owned Small	\$_____	%_____
Service Disabled Veteran Owned Small	\$_____	%_____



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(4) List principle supplies/services to be performed by Small Businesses:

Example: If a Small Business qualifies also as a WOSB and a SDVOSB, and you can add them to each category below in which they qualify.

	Name of Company	Identify Type of Service/Supply
Large:		
Small:		
Small Disadvantage:		
Women-Owned Small:		
HUB Zone Small:		
Veteran Owned Small:		
Service Disabled Veteran Owned Small:		

(5) Describe the extent of commitment to use each of the identified small business. Offerors do not need to submit copies of commitment instruments in their proposals. Rather, identify what types of commitments are in place with each company — i.e. a written contract, letter of commitment, verbal agreement, joint venture, mentor-protégé agreement, including how long agreement in place.

ADDITIONAL IMPORTANT NOTE FOR LARGE BUSINESSES ONLY

Small Business Sub-Contracting Plans (FAR 52.219-9)

Separate from the Small Business Participation Plan, large business offerors must also submit a Subcontracting Plan (Individual Contract Plan) meeting the requirements of FAR 52.219-9 and DFARS 252.219-7003. Large businesses will not be eligible for award if they fail to submit an acceptable Subcontracting Plan. Subcontracting Plans shall reflect and be consistent with the commitments offered in the Small Business Participation Plan. In accordance with DFARS 215.304(c), when an evaluation assesses the extent that small businesses are specifically identified in proposals, the small businesses considered in the evaluation shall be listed in any subcontracting plan submitted.

Subcontracting plans must be submitted in Volume 4 Pricing with Price Related Information.



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SMALL BUSINESS PARTICIPATION

SUBFACTOR 2 - Past Utilization of Small Business Concerns

- Applies to all offerors regardless of size
- Evaluated by assessing its records/information complying with FAR 52.219-8, Utilization of Small Business Concerns (see attachment 6)
- All large business offerors, previous compliance with FAR 52.219-9, Small Business Subcontracting Plan. (ISRs, PIPRS, etc)
- The extent the offeror documented obstacles in meeting goals or shows evidence of good faith effort.
- No contract w/FAR 52.219-8, Evaluation of Small Business Participation based solely on the offeror's proposed small business participation plan for this contract.
- The Government may use information supplied by the offeror and information obtained from other sources to evaluate past utilization of small business concerns.



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SMALL BUSINESS PARTICIPATION

Top 6 Mistakes

- Past utilization information (ISR) is not marked final or 80% complete details provided.
- Submits HUBzone firms that are not SBA certified HUBzone.
- Verification of firm size.
- Lack of documentation regarding obstacles in meeting goals or evidence of good faith effort on ISR Reports.
- Does not support proposed goals.
- No statement if never held Federal Contract w/FAR 52.219-8



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SMALL BUSINESS/SUB-CONTRACTING

Potential Opportunities exist for:

- General earthwork
- Site work
- Material hauling and handling
- Finishing work
- Surveying
- Electrical
- Grassing
- Environmental Monitoring
- Material Testing
- Supplies (armor stone, concrete, steel, concrete)
- Road work
- Dewatering



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LOOKING FOR OPPORTUNITIES IN ALL THE RIGHT PLACES



System for Award Management

www.sam.gov

Dynamic Small Business Search

http://dsbs.sba.gov/dsbs/search/dsp_dsbs.cfm

SB firms keep profile current w/bonding,
past performance, and capabilities

LB/prime contractors can use many filters to locate
SDB, HUBZone, WOSB, SDVOSB specific firms and their
location

FEDBIZOpps

www.fbo.gov

- SB firms register as an interested party for the solicitation



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Dynamic Small Business Systems(DSBS) ALERT!

- DSBS Link from SAM is down for 6 weeks
- Will take 6 weeks for fix to be implemented
- In the meantime.....
- SB firms update your SBA Supplemental Pages(profile) via SBA's general log in system(GLS)
- Go to https://eweb.sba.gov/gls/dsp_login.cfm

Register and set up an account in GLS system if not registered. In GLS, request access to PRO-NET/DSBS and click SBA Supplemental Pages. Once you are granted access to PRO-NET/DSBS you can then click this link to update your SBA Supplemental Pages in DSBS.



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CONTACT INFORMATION

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Florida Procurement Technical Assistance Center

<http://www.fptac.org/contactus.htm>

Jacksonville District WebPages

www.saj.usace.army.mil

How do I contact Small Business?

FY2016 Forecast

Frequently Asked Questions



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HERBERT HOOVER DIKE REHABILITATION PROJECT

Nolan B. Eusebio, P.E.

Chief, Quality Assurance

IP-3 Pre-Proposal Conference

May 12, 2016

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**US Army Corps of Engineers
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Content



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- Typical General Requirements
- Typical Safety Requirements
- Typical Quality Control Requirements
- Typical Schedule Requirements
- Typical Regulatory Requirements
- Typical challenges

The objective of this presentation is to provide an overview of typical contract requirements not to establish them. Contractors are always encouraged to read contract documents.



Typical General Requirements



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- **Read and understand your Contract Documents** (Plans, Specs, Safety Manual, Codes, and Standards)
- Contractors should normally anticipate submission of preconstruction submittals after Notice to proceed (NTP)
- Regularly, the contract defines required meetings



Typical Safety Requirements



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- Contractors are typically required to submit for Government approval an Accident Prevention Plan “APP” prior to commencement of work
- APP is a living document and usually needs to be updated periodically
- Contractors are typically required to follow the EM-385-1-1 Safety Manual or OSHA Standards, whichever is more stringent
- Normally, the EM-385-1-1 Safety manual is a contract document.



Typical Safety Requirements



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- Contractors are normally required to develop and submit for Government approval Activity Hazard Analyses (AHA) for each Definable Feature of Work (DFOW) as minimum
- The contract usually defines key personnel that need to be incorporated into the Safety team
- Safety personnel typically need to be submitted for Government approval
- Cranes normally require specific documentation before they can be utilized.



Typical Quality Control Requirements



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- Contractors are typically required to submit for Government approval a Contractor Quality Control Plan “CQC Plan” prior to commencement of work
- Contractors are usually required by contract to implement the 3 Phase Quality Control System to all Definable Features of Work (DFOWs) as a minimum



Typical Quality Control Requirements



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- Typically, the work cannot begin for a DFOW until the preparatory phase has been completed and all required documents to include submittals and AHA for that DFOW are approved
- Usually, QC personnel need to be submitted for Government approval



Typical Schedule Requirements



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- The schedule is normally required to comply with specific requirements as identified in the contract specifications
- The schedule is typically required to be uploaded into the Resident Management System (RMS)
- Contractors are usually required to submit an Initial Project Schedule (IPS) in Primavera Software (P6)
- The Schedule of Values (SOV) submittal is typically required to be submitted along with the IPS



Typical Regulatory Requirements



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- Contractors are normally required to submit for Government approval an Environmental Protection Plan “EPP” prior to commencement of work
- Generally, the contract defines key personnel that need to be incorporated into EPP
- Usually, EP personnel need to be submitted for Government approval
- Typically, the contract defines monitoring frequencies for different species
- Usually, the contract requires summary reports and weekly reports for turbidity monitoring



Typical Challenges



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- Dewatering System
- Bypass Pumping System
- Long lead items
- Off-site fabrications
- Quality Control of specialized DFOWs that require substantial Subcontractor involvement
- Managing Construction Schedule including 3-phase system and submittals