





**Public Hearing**

**Clean Water Act Section 401**

**Permit Applications**

For

**Cleveland Harbor 2010 Maintenance Dredging**

**&**

**Cleveland Harbor East 55<sup>th</sup> Street CDF**

January 7, 2010

# Purpose of Public Hearing

To gather public comment on the proposed lowering of water quality prior to making a decision on the Army Corps of Engineers' applications for Section 401 Water Quality Certifications.

Tonight, we will be discussing two (2) different applications.

**First Presentation:**

**Cleveland Harbor  
2010 Maintenance Dredging**

# General Information about the Project

Applicant:

U.S. Army Corps of Engineers

Project Location:

The federal navigation channels of Cleveland Harbor.

# General Information about the Project

The Project will Entail:

The maintenance dredging of sediments from the authorized federal navigation channels. The channels will be dredged to the authorized depths.

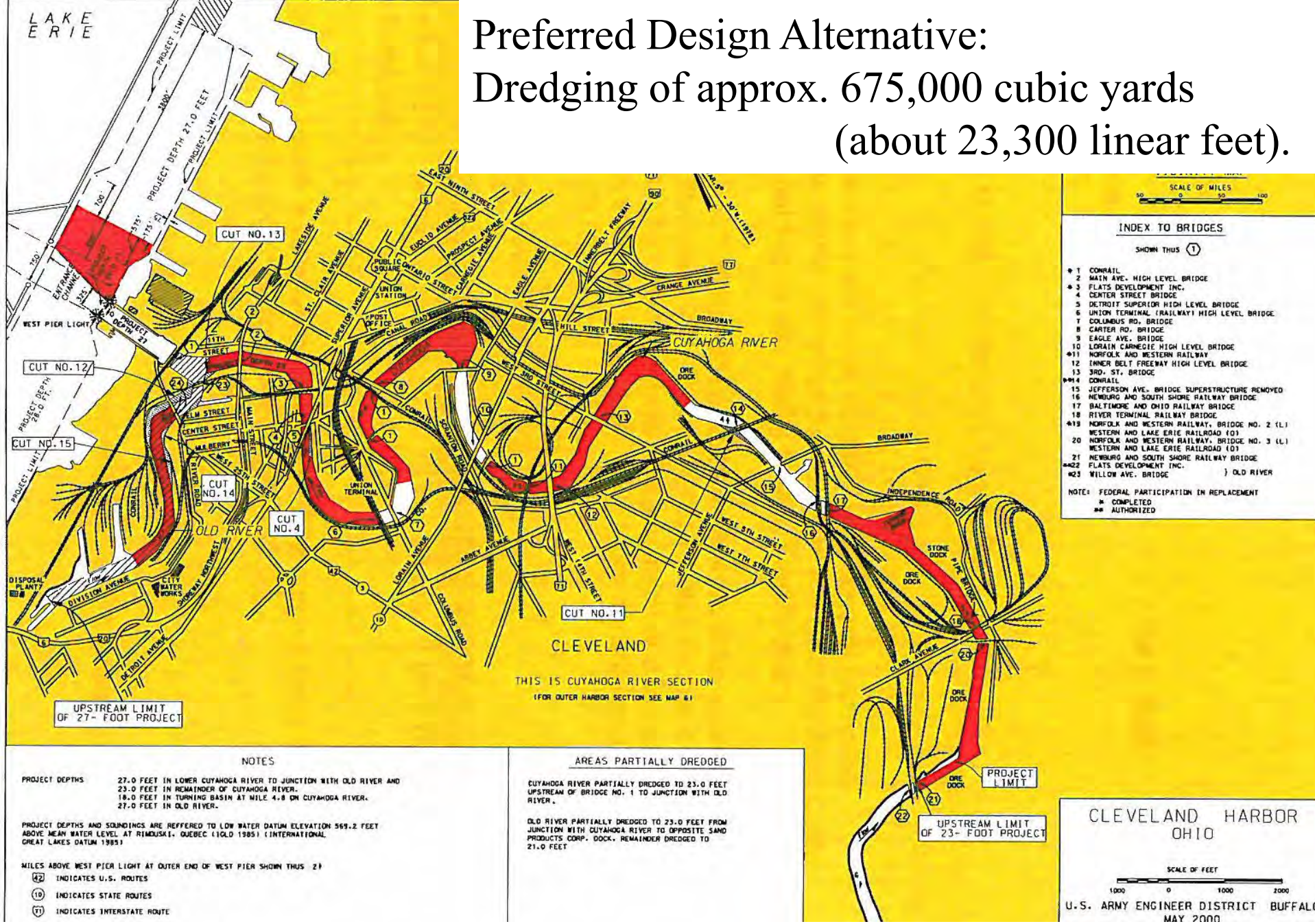
Purpose:

The continued annual maintenance dredging of sediments from the authorized federal navigation channels.

# Alternatives Analysis

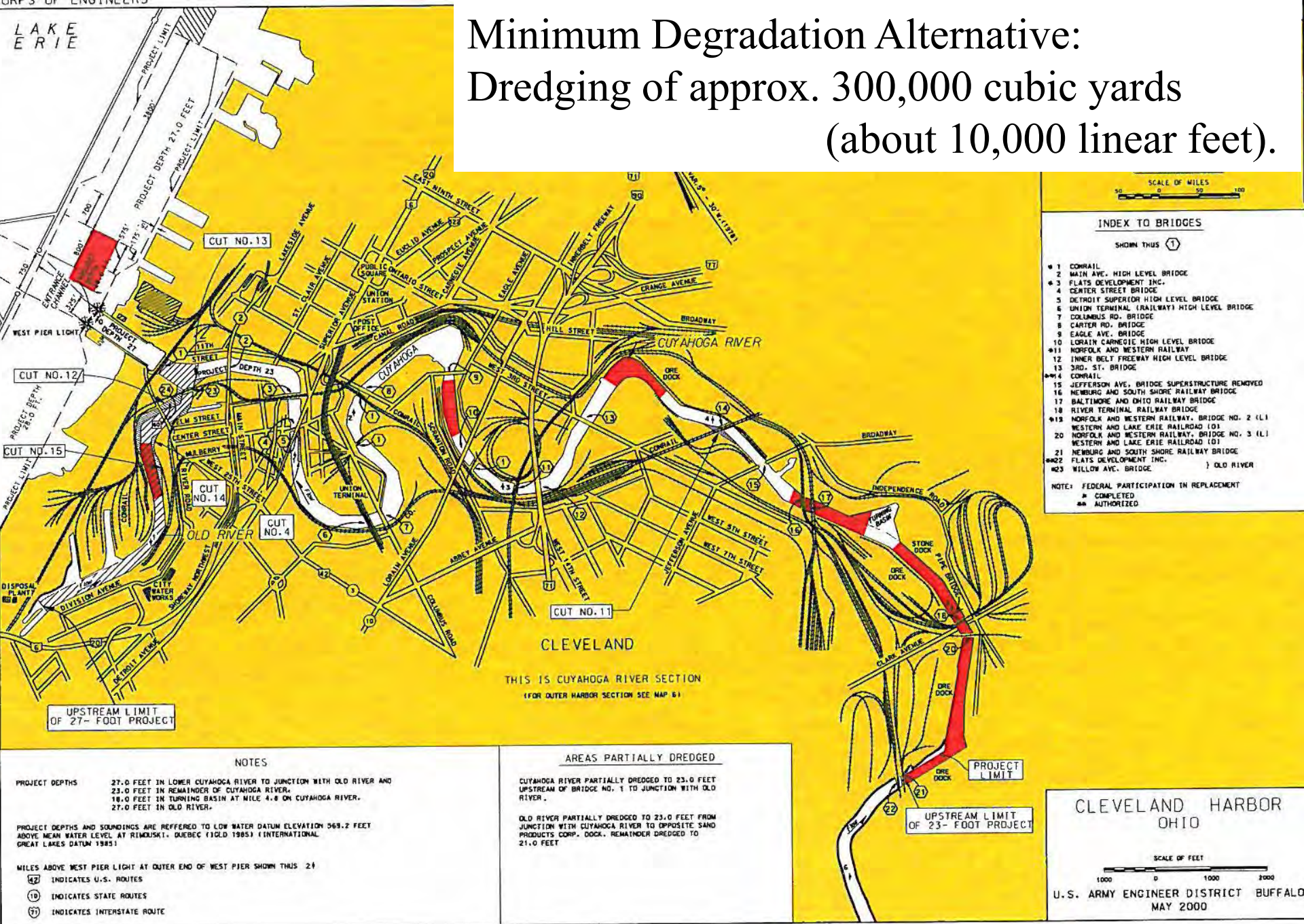
- **Preferred alternative** – the first choice of the applicant; what the applicant feels is most appropriate for their particular situation. This option will result in impacts to the water resource.
- **Minimal degradation alternative** – the absolute minimum impact (in the opinion of the applicant) to the water resource that can be made and still meet the applicant's specific requirements.
- **Non-degradation alternative** – what can be done on the property that will result in no impact to the waters of the state. This may include not completing a project or it may include designing a project so that there are no impacts.
- **Mitigation techniques** – Ohio requires no net degradation to the waters of the state occur. When impacts are proposed, the applicant is required to propose mitigation either onsite or someplace else.

# Preferred Design Alternative: Dredging of approx. 675,000 cubic yards (about 23,300 linear feet).



Cleveland Harbor 2010 Maintenance Dredging

# Minimum Degradation Alternative: Dredging of approx. 300,000 cubic yards (about 10,000 linear feet).



Cleveland Harbor 2010 Maintenance Dredging

## Recent Dredging History (In Place Cubic Yards per Year<sup>1</sup>)

Year	1998	1999	2000	2001	2002	2003	Average	Disposal Site
Federal Dredging	355,900	281,700	225,600	401,800	182,000 <sup>2</sup>	333,900 <sup>3</sup>	293,500	CDF
Non Federal	24,700	25,100	107,400	23,700	11,800	27,600	36,700	CDF
<b>Total</b>	<b>360,600</b>	<b>306,800</b>	<b>333,000</b>	<b>425,500</b>	<b>193,800</b>	<b>361,500</b>	<b>330,200</b>	<b>CDF</b>

<sup>1</sup> All volumes are “In Place” volumes.

<sup>2</sup> Dredging operations were limited by available funds. Actual quantities dredged in 2002 do not necessarily reflect the required dredging volumes if sufficient O&M appropriations were available.

<sup>3</sup> Preliminary estimate of in place Federal cubic yards dredged in 2003.

“Cleveland Harbor is dredged every year. The average dredging volume per dredging event since 1998 is 330,200 cubic yards.” Corps of Engineers Draft DMMP for new CDF.

Dredged Material will be taken to (existing) CDFs 10B and 12.



# Proposed Mitigation

- Dredging will not be performed during Lake Erie storm events.
- Sediments dredged from the harbor would be contained in the CDF.
- Care would be employed throughout the course of dredging/discharge operations to avoid the creation of unnecessary turbidity that may degrade water quality or adversely affect aquatic life outside the project area.

**Second Presentation:**

**Cleveland Harbor  
East 55<sup>th</sup> Street CDF**

# General Information about the Project

## Purpose:

The current CDFs are at or near their maximum capacity. The proposal is to construct a new CDF for continuity of having a disposal facility.

# Alternatives Analysis

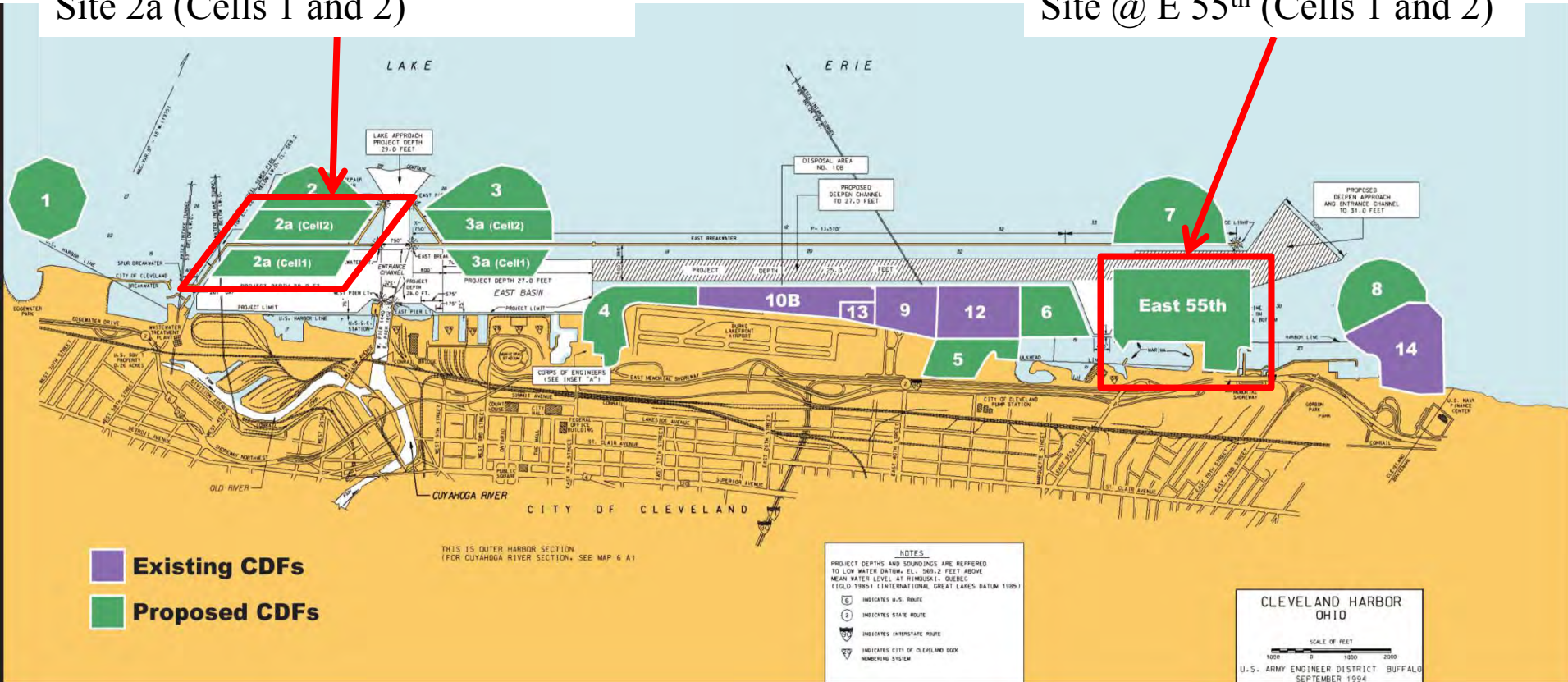
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- **Mitigation techniques** – Ohio requires no net degradation to the waters of the state occur. When impacts are proposed, the applicant is required to propose mitigation either onsite or someplace else.

# General Information about the Project

Applicant: U.S. Army Corps of Engineers

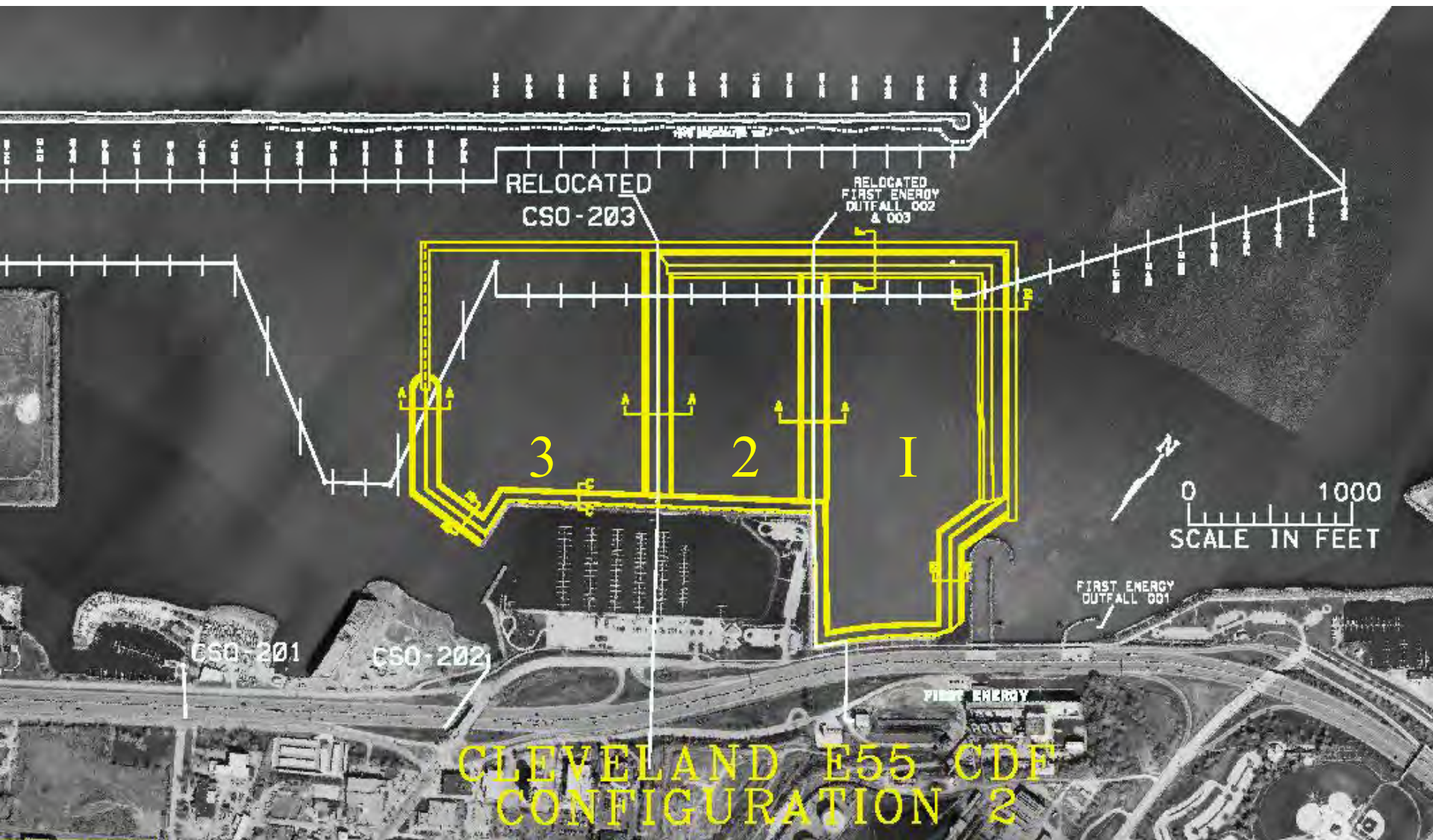
Minimum Degradation Alternative:  
Site 2a (Cells 1 and 2)

Preferred Design Alternative:  
Site @ E 55<sup>th</sup> (Cells 1 and 2)

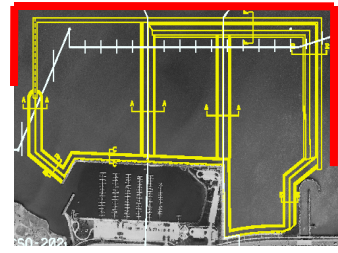
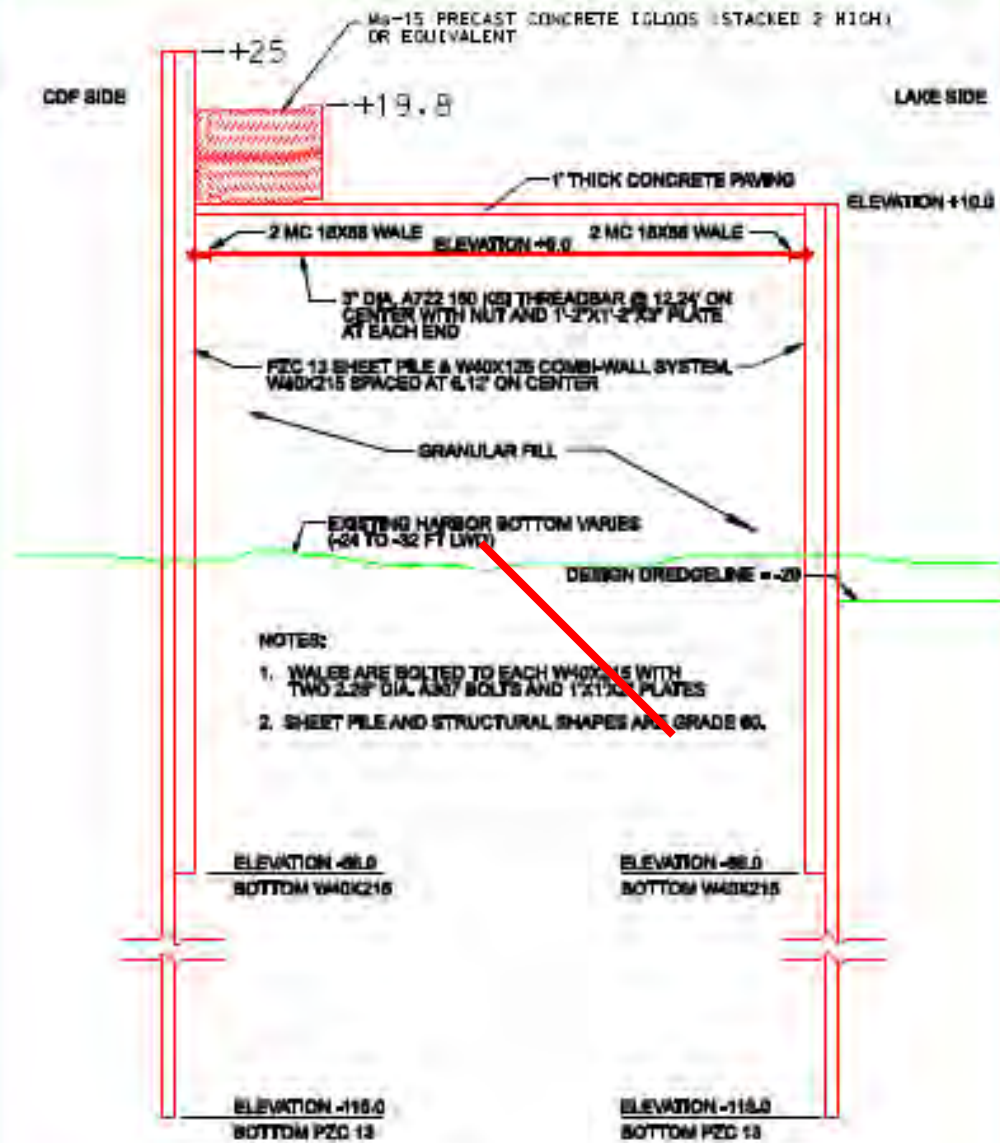


Cleveland Harbor E 55th CDF

This is the Corps' Preferred Design proposal for the E 55<sup>th</sup> CDF. It will be constructed in 3 self-contained phases, moving east – west.



Cleveland Harbor E 55th CDF

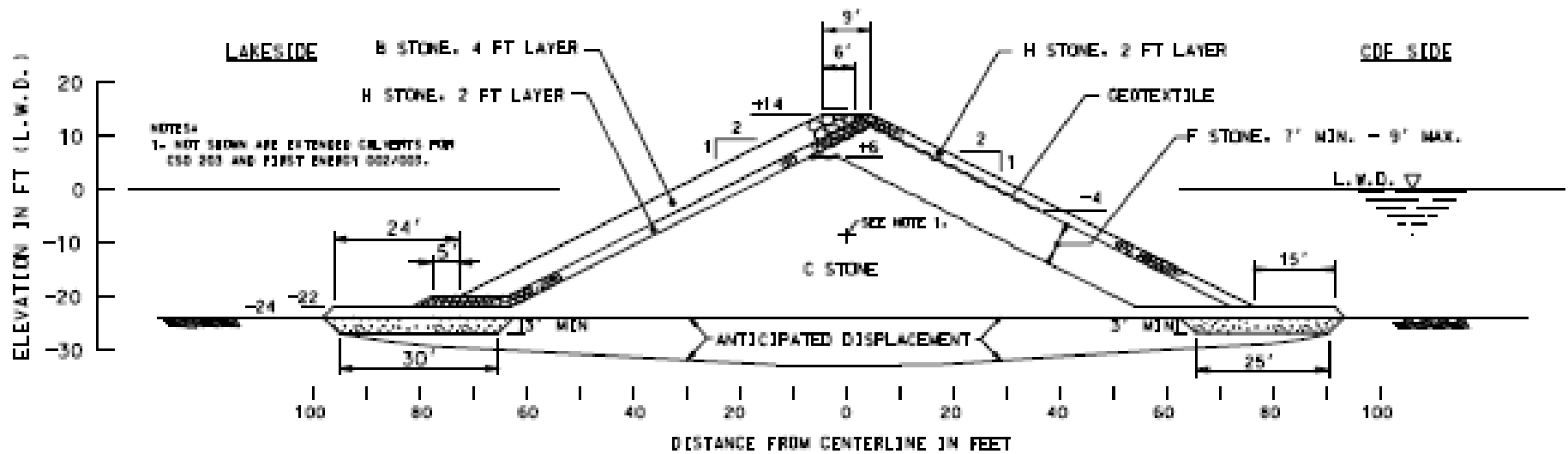
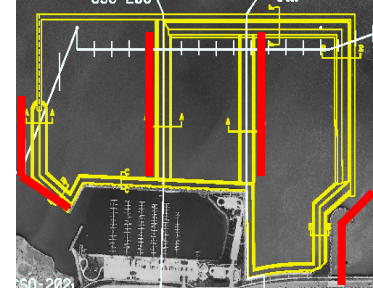


CLEVELAND E55TH STREET CDF, LOCALLY-PREFERRED PLAN

Typical Section (representative of A-A & B-B)

SC

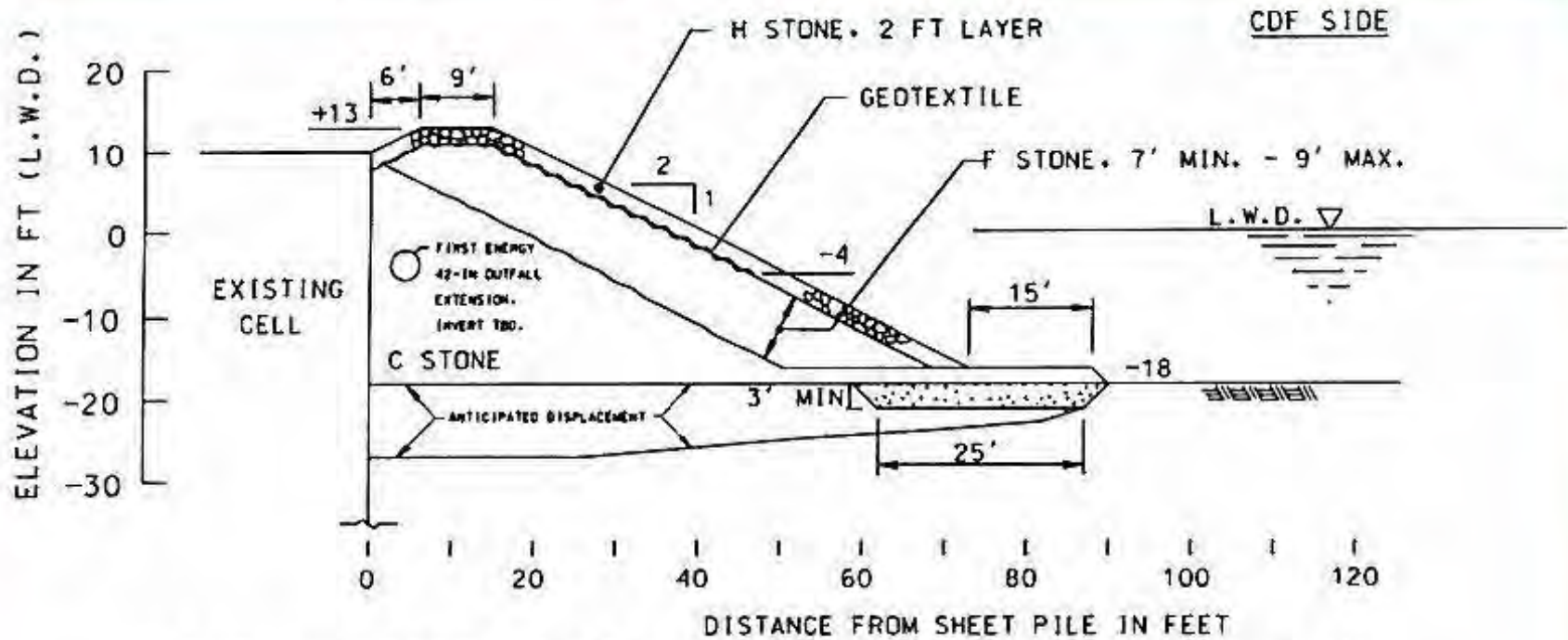
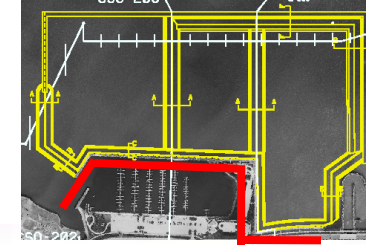
JUL 1 2008



CLEVELAND E55TH STREET CDF, LOCALLY-PREFERRED PLAN

Typical Section (representative of C-C, D-D & H-H)

JULY 2008

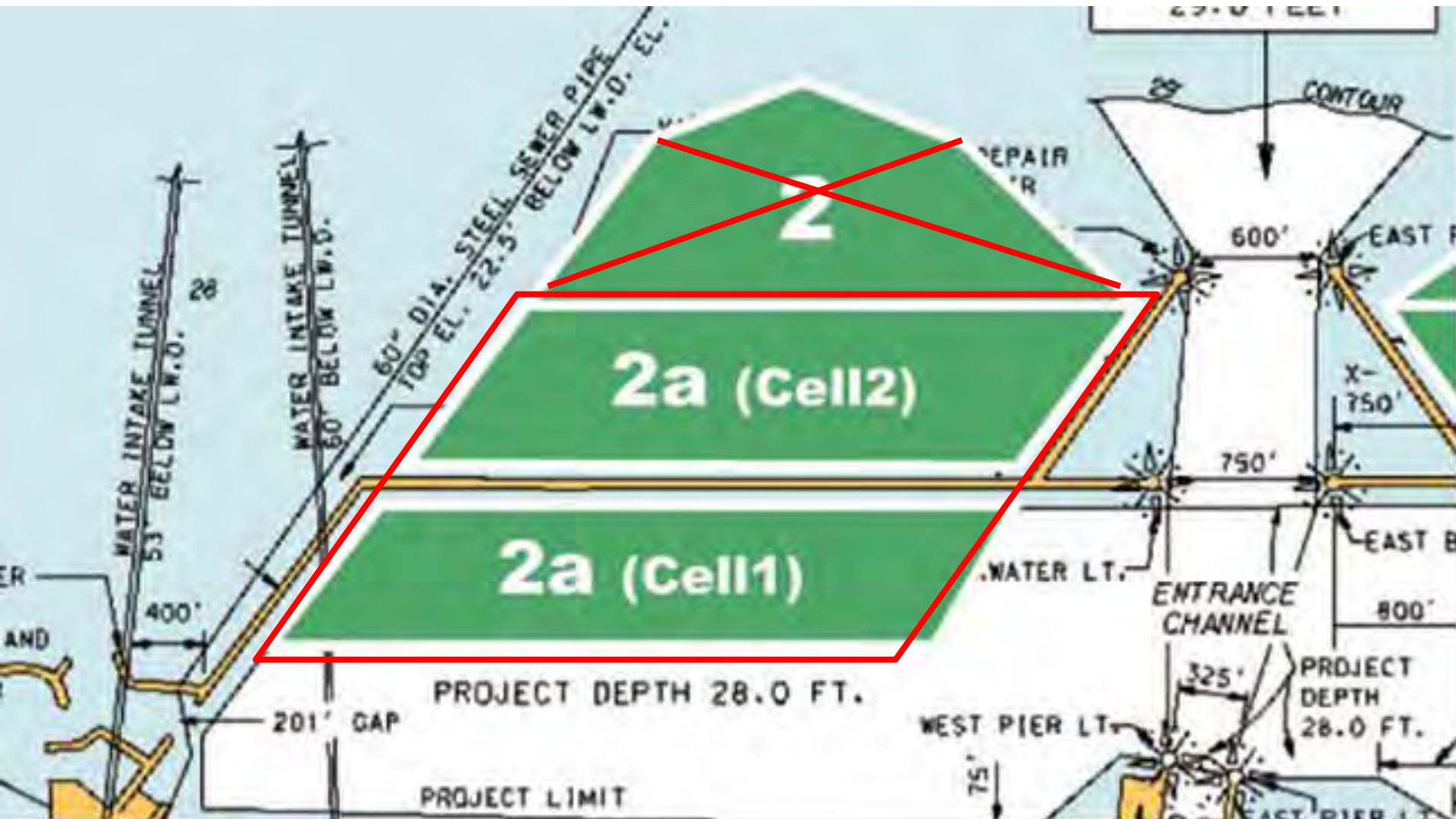


CLEVELAND E55TH STREET CDF, LOCALLY-PREFERRED PLAN

Typical Section (representative of E-E, F-F & G-G)

JULY 2008

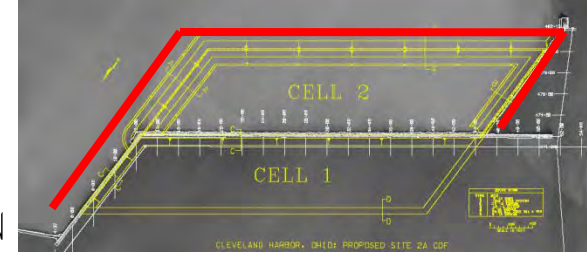
This is the Corps' Minimum Degradation Alternative for the CDF.





# A-A

## SITE 2 (SMALL) - TYPICAL OPEN-WATER SECTION

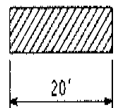
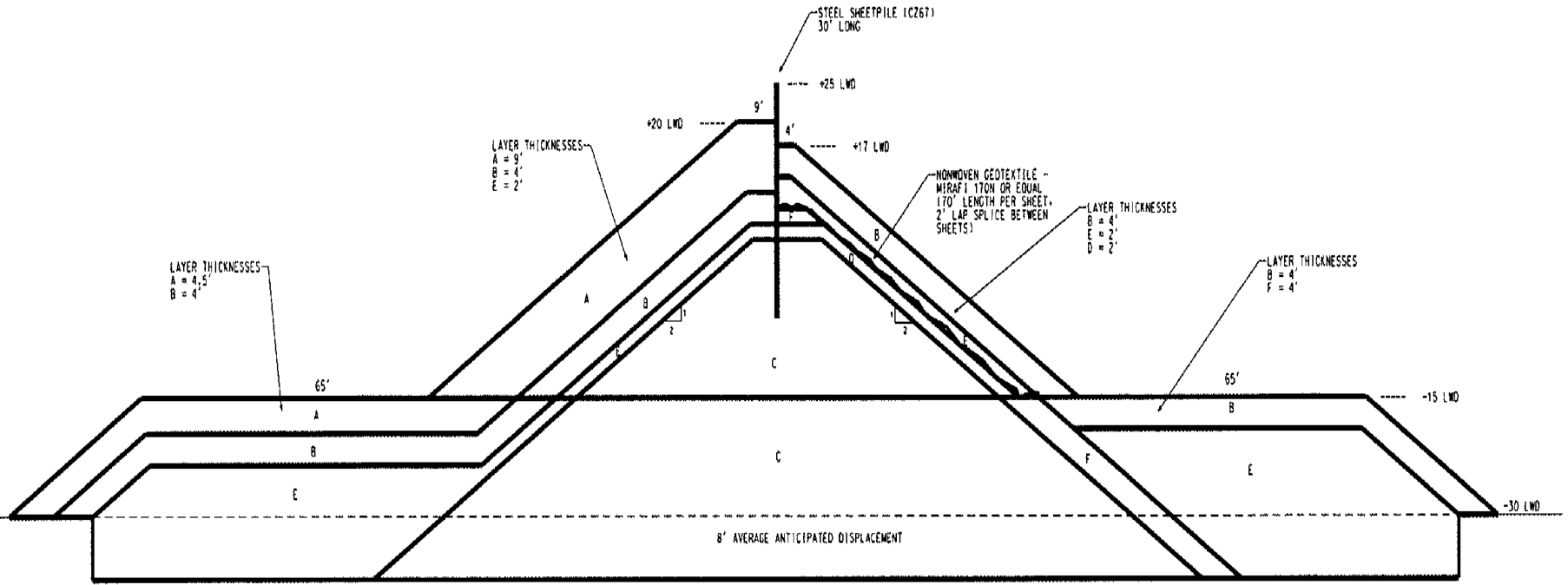


NOT SUPPORTED BY DETAILED ENGINEERING ANALYSES.  
FOR PRELIMINARY COST ESTIMATING PURPOSES ONLY.

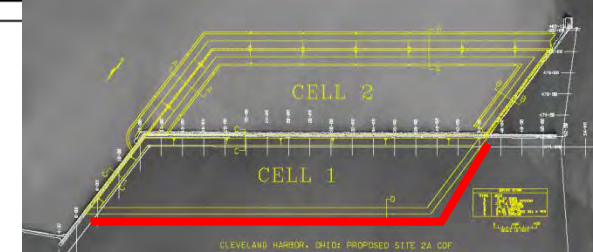
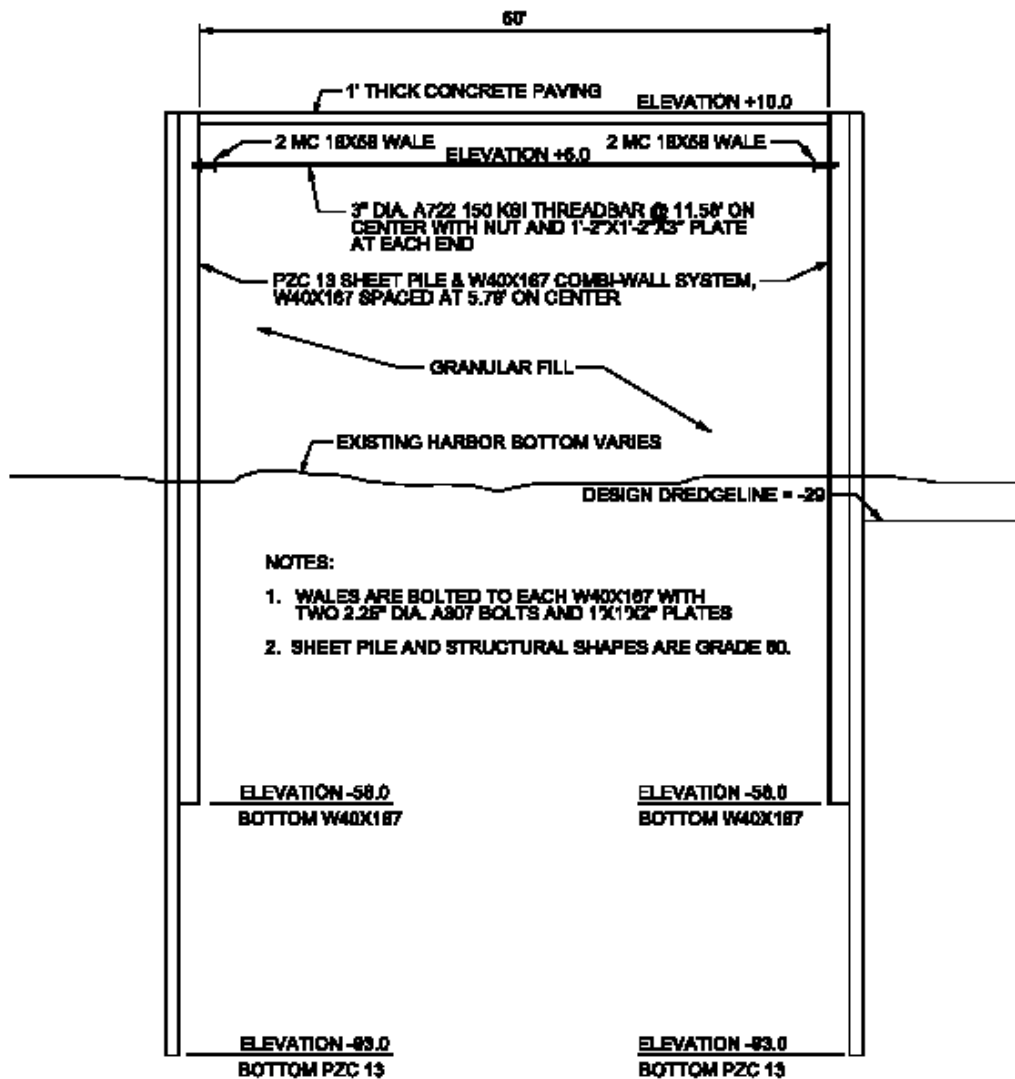
LAKE SIDE

PRIOR TO PLACING MATERIAL ABOVE -15 LWD  
ALL MATERIAL BELOW -15 LWD MUST BE PLACED.

CDF SIDE



# D-D



CLEVELAND CDF 2A & 3A (CELL 1)  
PROPOSED TYPICAL SECTION  
JULY 2008

# Comparing the Two Options

	Proposed Site	Design Capacity (cy)	Design Capacity (years)
Minimum Degradation Alternative	CDF 2a - Totals	7,110,000	20.99
Preferred Design Alternative	Plan 4a East 55th (Port)	6,850,000	20.25

# Proposed Mitigation

	Preferred E. 55 <sup>th</sup>	Minimum Site 2a
Man-made fish habitat and fish spawning shelves would be installed along portions of the perimeter of the newly constructed CDF.	✓	
Man-made fish habitat and fish spawning shelves would be installed along the perimeter of newly constructed CDFs.		✓
Consider implementing shoreline fish habitat improvements in conjunction with Ohio DOT's Cleveland Urban Core Projects per USF&WS recommendations.	✓	✓
Toe stone would be placed along the base of the CDF to promote macroinvertebrate and other aquatic habitat and support fish spawning.	✓	✓
Contractors would be required to develop an Environmental Protection Plan to include, but not limited to, noise control, minimize turbidity, develop and implement spill prevention control and countermeasures, and reduce air emissions.	✓	✓

# Proposed Mitigation, cont'd.

	Preferred E. 55 <sup>th</sup>	Minimum Site 2a
<p>Providing capacity for dredged material in existing and new CDFs would remove contaminated sediment from the navigation channels.</p> <ul style="list-style-type: none"> <li>•This maintains adequate depths for commercial navigation and sustains economic vitality of the community and region.</li> <li>•Supports Cuyahoga River RAP restoration activities by restoring the environmental quality of lower Cuyahoga River through the remediation of existing conditions.</li> <li>•Provides cleaner waters for aquatic habitat.</li> <li>•Increases opportunities for recreation boating, fishing and swimming.</li> </ul>	✓	✓
<p>During operation of the proposed CDF, a Wildlife Damage Management Plan would be implemented by the USACE and USDA, Wildlife Services to minimize wildlife habitat on the CDF. The Plan would likely minimize the occurrence of bird strikes during take-off and landing of aircraft at BKL Airport, thereby maintaining FAA safety standards necessary to support aviation safety. A typical plan would include vegetation growth once the CDF fills above the water line. Although the vegetation would attract black birds, this species would fly below the aircraft flight line and the vegetation growth would likely eliminate habitat for other species that pose a greater threat to aircraft approach.</p>	✓	✓
<p>Once filling operations are complete and the CDF is transferred to the local sponsor, the end land use could support recreation development to support community cohesion and growth while adding to the lakefront aesthetics.</p>	✓	✓
<p>For the East 55<sup>th</sup> Street CDF, consider designing dikes to allow for public access for fishing and other passive recreation activities in order to offset the loss of fishing platforms.</p>	✓	

# Process After Tonight's Public Hearing

- Public comment period open through January 14, 2010
- Ohio EPA will review and consider all comments received during the comment period
- Ohio EPA drafts Responsiveness Summary and makes decision regarding the Section 401 Water Quality Certifications
- Director's final decisions and Responsiveness Summaries are distributed to ACOE and Interested Parties

# Comments

Written comments will be accepted until

January 14, 2010

Comments may be sent to:

**Ohio EPA – DSW**

**Attention: Permits Processing Unit**

**Lazarus Government Center**

**P.O. Box 1049**

**Columbus, Ohio 43216-1049**

**Insert email**

**Insert fax**

This date was extended to January 21, 2010. This slide is as it was presented at the hearing. It is stated in the transcript as January 21, 2010.

# Ohio EPA Contact

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**Thank You!**