



**US Army Corps
of Engineers**
Louisville District ®

Public Notice

Public Notice No.
LRL-2013-757-cmh

Open Date:
29 Nov 2013

Close Date:
30 Dec 2013

Please address all comments and inquiries to:
U.S. Army Corps of Engineers, Louisville District
ATTN: Mr. Max Hagan, CELRL-OP-FN, Rm 752
P.O. Box 59
Louisville, Kentucky 40201-0059

Phone: 502-315-6690

This notice announces an application submitted for a Department of the Army (DA) Permit, subject to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act (CWA).

APPLICANT: Mulzer Crushed Stone, Inc.
534 Mozart Street
Tell City, IN 47586

AGENT: American Engineers, Inc.
2500 Nelson Miller Parkway
Louisville, KY 40223

LOCATION: Along the right bank of the Ohio River from Mile
673 to 675 in Crawford County, Indiana, and Meade
County, Kentucky.

Latitude: 38.12937
Longitude: -86.35795
7.5 Minute Quad: LEAVENWORTH, IN-KY

PURPOSE: Expand fleeting operations.

DESCRIPTION OF WORK: The applicant proposes to expand the 10 existing fleeting areas with more barge space, an additional barge fleeting area, mooring cells, quad-tie pipe pile clusters, and the placement of 14,095 cubic yards of fill material as shown on the attached plans (Sheets 1-10). Seventy-seven new barge spaces would be added to the existing 92 previously authorized for a total capacity of 169 barges. The existing fleets are secured with 36 deadmen, 2 mooring cells, and 8 tri-ties. Six new 35-foot and two 24-foot diameter mooring cells and seventeen quad-ties would be installed below the ordinary high water elevation of 392.4 feet Ohio River Datum (ORD). The steel sheet piling for the mooring cells would be driven a minimum of 12 feet below the mud line to bedrock or until refusal, filled with sand, rock or gravel, and capped with concrete. The quad-tie pile clusters would consist of 18-inch pipe piles driven to bedrock or until refusal. The fleets would be secured to the anchorage devices with 1 1/8-inch steel cable. The maximum riverward projection would be 250 feet at the normal pool elevation of 383.0' ORD and the total extension along the river would be 2.1 miles. The multiple DA permits previously issued to Mulzer Crushed Stone at this location would be consolidated into this case file.

AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES: The proposed placement of the fill material is unavoidable considering its contribution to the strength and structural integrity of the mooring cells. The composition of the fill material is considered to be inert and would be contained within the driven steel sheet piling so as to not be moved by river flow or currents. No mitigative measures are proposed at this time.

REVIEW PROCEDURES: A DA Permit cannot be issued if any legally required Federal, State, or local authorization or certification is denied. A DA Permit, if otherwise warranted, will not be issued on this project until a State of Indiana and a State of Kentucky Section 401 Water Quality Certifications (WQC) from the Indiana Department of Environmental Management (IDEM) and Kentucky Energy and Environment Cabinet Division of Water (KDOW) is on file in this office or it is considered waived. In order to comply with Section 401 of the CWA, the applicant must apply for State certification from the IDEM and KDOW.

Copies of this notice are sent to the appropriate Federal and State Fish and Wildlife Agencies. Their views and comments are solicited in accordance with the Fish and Wildlife Coordination Act of 1956. Based on available information, the proposed activity will not destroy or endanger any Federally-listed threatened or endangered species or their critical habitats, as identified under the Endangered Species Act, and therefore, initiation of formal consultation procedures with the U.S. Fish and Wildlife Service is not planned at this time.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. A request for a public hearing must state the specific interest which might be damaged by issuance of the DA Permit.

The National Register of Historic Places has been examined, and it has been determined that there are no properties currently listed on the Register which would be directly affected by the proposed work. If we are made aware, as a result of comments received in response to this notice, or by other means, of specific archaeological, scientific, prehistoric, or historical sites or structures which might be affected by the proposed work, the District Engineer will immediately take the appropriate action necessary pursuant to the National Historic Preservation Act of 1966 - Public Law 89-665 as amended (including Public Law 96-515).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to

the proposal will be considered; among those are conservation, economics, aesthetic values, general environmental concerns, historic values, fish and wildlife values, flood damage prevention, land use, navigation, recreation, water supply, water quality, energy needs, safety, food production, and in general, the needs and welfare of the public.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. It is presumed that all interested parties and agencies will wish to respond; therefore, a lack of response will be interpreted as meaning that there is no objection to the proposed project. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written statements received in this office on or before the closing date will become a part of the official record and will be considered in the determination on this permit request. Any objections which are received during this period will be forwarded to the applicant for possible resolution before the determination is made whether to issue or deny the requested DA Permit. A permit will be granted unless its issuance is found to be contrary to the public interest.

Information pertaining to this application is available for public examination during normal business hours upon prior request. This public notice and drawings are available on Louisville District's Internet site at <http://www.lrl.usace.army.mil/Missions/Regulatory.aspx>. All comments regarding this proposal should be addressed to Mr. Max Hagan, CELRL-OP-FN, at the address noted above and should refer to the Public Notice Number LRL-2013-757-cmh.

If you desire to submit your comments by email, you must comply with the following:

a) In the subject line of your email, type in **ONLY** the Public Notice ID No. LRL-2013-757-cmh.

Example:

Subject: LRL-2013-757-cmh

b) Provide your physical mailing address and telephone number.

Operations Division
Regulatory Branch (North)
Public Notice No. LRL-2013-757-cmh

c) Send your email to: lrl.regulatorypubliccomment@usace.army.mil

d) If you are sending attachments greater than 1 Mb in size with your email, you must send a hard copy (CD or paper) to the Corps' physical address as well.

SITE NOTES

NOTE: PROPERTY LINES SHOWN HEREON ARE GRAPHICAL REPRESENTATIONS AS BASED ON PVA MAPPING IN THE REPRESENTATIVE COUNTY(IES) OF THE PROJECT.

THIS DRAWING DOES NOT CONSTITUTE A BOUNDARY SURVEY OF ANY KIND, AND AS SUCH SHALL NOT BE DEEMED A PLAT NOR SHALL THE DRAWING BE USED FOR LEGAL PROPERTY CONVEYANCE. THIS DRAWING SHALL NOT BE RECORDED. THIS DRAWING SHALL NOT BE ALTERED IN ANY MANNER. THIS DRAWING SHALL NOT BE USED FOR LEGAL PROPERTY CONVEYANCE OR TONNAGE CALCULATIONS FOR ROYALTIES.

MCAULPINE LOCKS & DAM IS APPROX. 67.2 MILES UPSTREAM OF PROJECT.

CANNELTON LOCKS & DAM IS APPROX. 46.8 MILES DOWNSTREAM OF PROJECT.

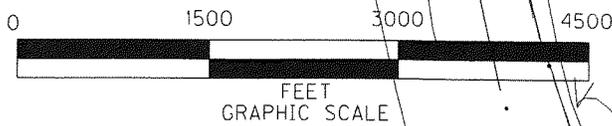
POLITICAL JURISDICTIONS: CRAWFORD COUNTY, INDIANA OHIO TOWNSHIP

MEADE CO.
KENTUCKY

YEAGER MATERIALS, INC.
P.O. BOX 2000
OWENSBORO, KY 42301

⑩ - DENOTES FLEETING AREAS 1 THROUGH 11

NOTE: ALL EXISTING & PROPOSED CABLES & WIRE ROPES ARE 1 1/2" DIA. STEEL



AEI PROJECT NO.: 213-148		REVISIONS	DATE
DRAWN BY: DAS	CHECKED BY: DCC	1	
DATE: 10/29/2013		2	
SCALE: 1"=1500'	SHEET: 1 OF 10	3	
		4	
		5	
		6	
		7	

PROJECT NAME:
CAPE SANDY QUARRY
OHIO RIVER
RIVER MILE 673-675
CRAWFORD COUNTY
LEAVENWORTH, INDIANA

PREPARED FOR:

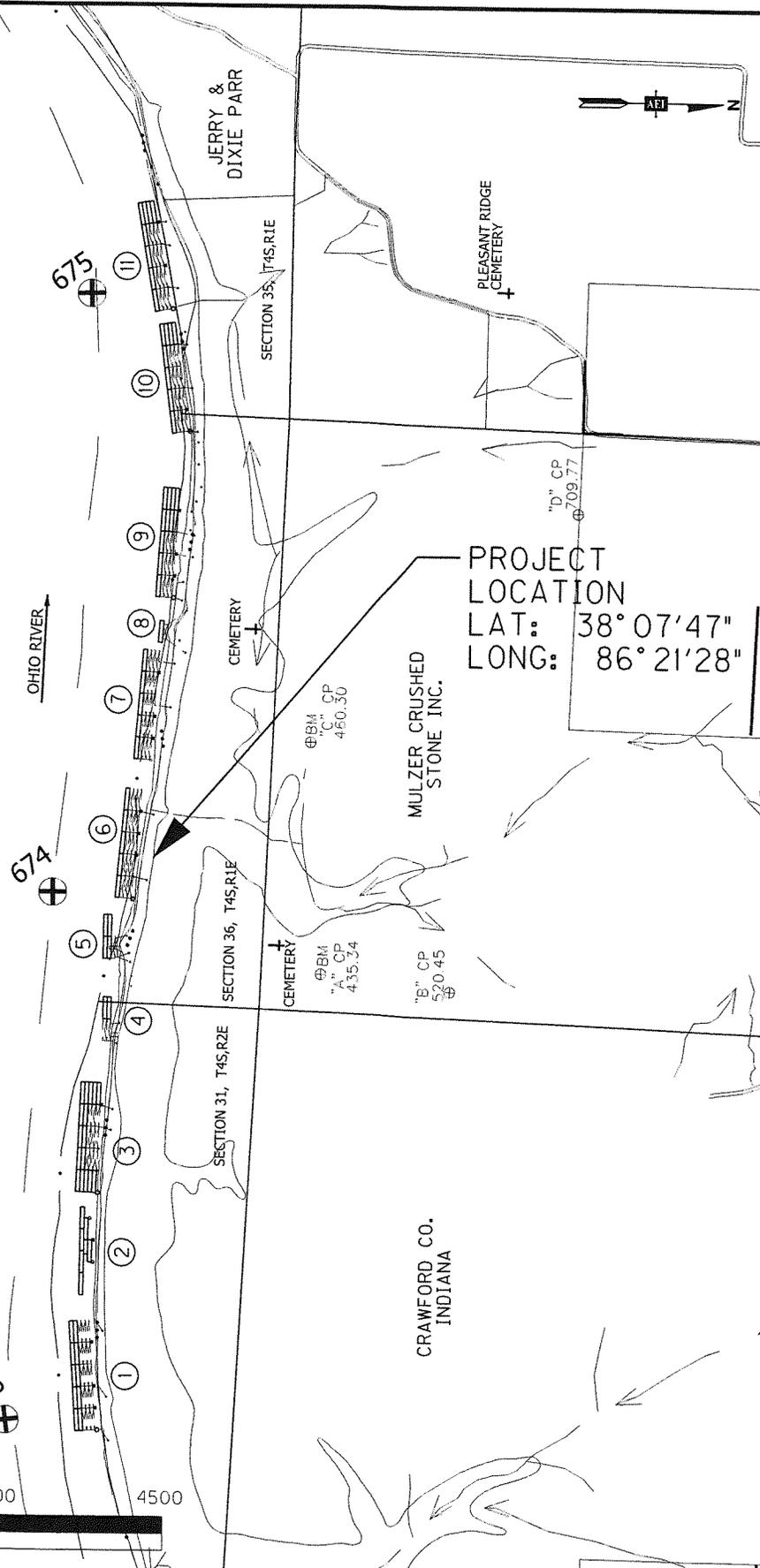
MULZER CRUSHED STONE, INC.
19925 S ALTON-FREDONIA RD.
LEAVENWORTH, IN 47137
PH: (812) 649-8980

VICINITY
MAP

ID. NO. LRL 2013-757

2540 Nelson Millway Parkway
Louisville, KY 40223
(502) 245-3919
Fax (502) 245-3814
www.aei.com

YEAGER MATERIALS, INC.
P.O. BOX 2000
OWENSBORO, KY 42301



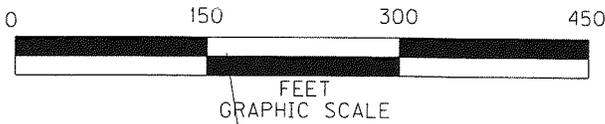
PROJECT LOCATION
LAT: 38° 07' 47"
LONG: 86° 21' 28"

FOR CROSS SECTIONS A-A
THRU E-E SEE SHEET 3

SAILING LINE

OHIO RIVER 

KENTUCKY
INDIANA
STATE LINE



NOTE: ALL EXISTING & PROPOSED
CABLES & WIRE ROPES ARE 1 1/8"
DIA. STEEL

A

NOTE: FURTHEST EXTENSION
INTO RIVER FROM WATERS
EDGE = 250'

(10) PROP. FLEETING

(15) EX. FLEETING

PROP. 35' DIA. X 45'
CELL

PROP. 45'
QUAD

PROP. 45'
QUAD

PROP. 45'
QUAD

EX. WATER EDGE

EX. DEADMAN

EX. DEADMAN

EX. TOP OF BANK

A

ID. NO. LRL 2013-757

AEI PROJECT NO: 213-148		1	REVISIONS	DATE
DRAWN BY: DAS	CHECKED BY: DCC	2		
DATE: 10/29/2013		3		
SCALE: 1"=150'	SHEET: 2 OF 10	4		
		5		
		6		
		7		

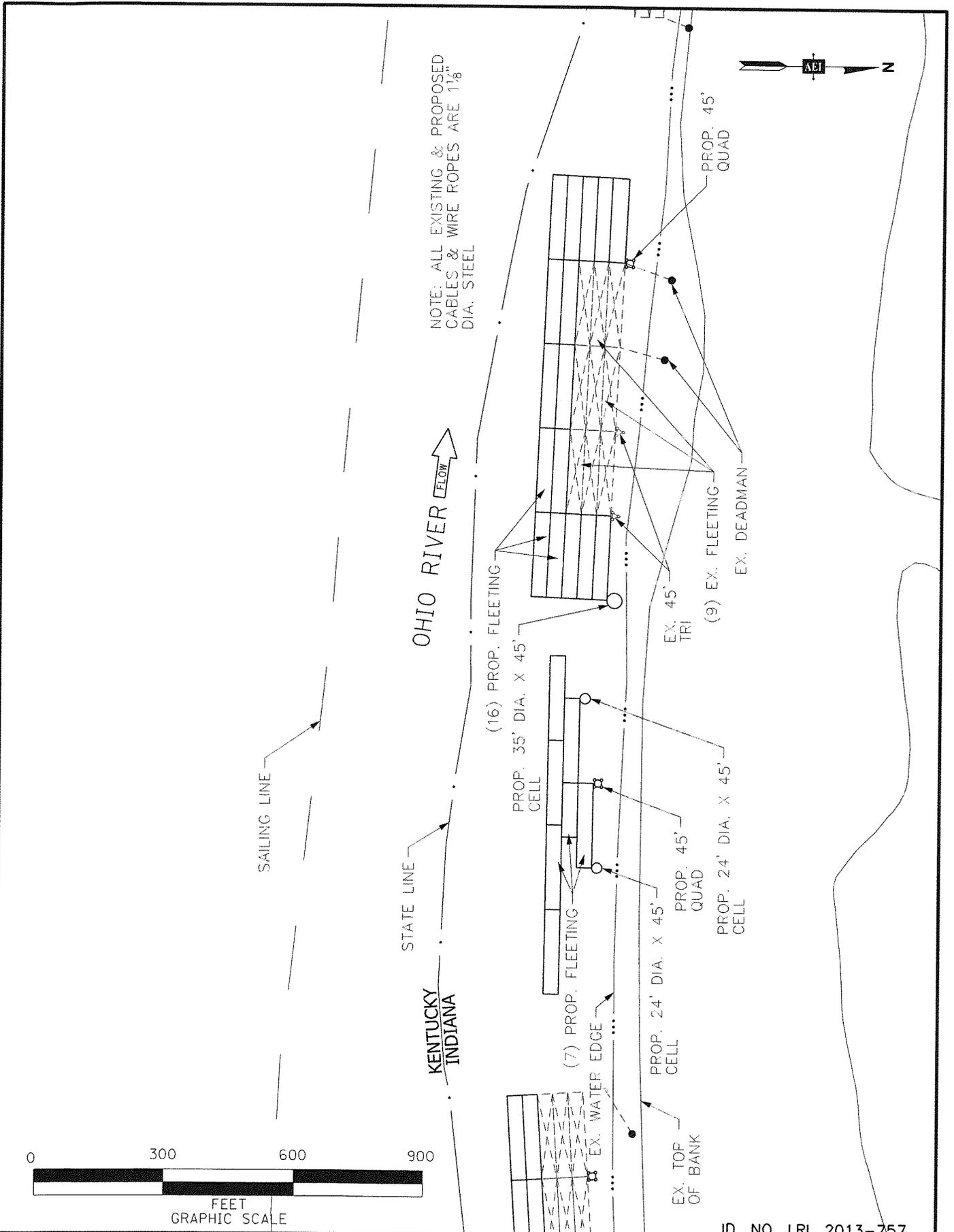
PROJECT NAME:
**CAPE SANDY
QUARRY**
OHIO RIVER
RIVER MILE 673-675
CRAWFORD COUNTY
LEAVENWORTH, INDIANA

PREPARED FOR:

**MULZER CRUSHED
STONE, INC.**
19925 S ALTON-FREDONIA RD.
LEAVENWORTH, IN 47137
PH: (812) 649-8980

**FLEETING
AREA 1
PLAN**

AEI AMERICAN ENGINEERS, INC.
2500 Nelson Miller Parkway
Leavenworth, KY 40223
(502) 245-3810
Fax (502) 245-3814
www.aei-inc.com



AEI PROJECT NO.: 213-148		1	REVISIONS	DATE
DRAWN BY: DAS	CHECKED BY: DCC	2		
DATE: 10/29/2013		3		
SCALE: 1"=300'	SHEET: 3 OF 10	4		
		5		
		6		
		7		

PROJECT NAME:
CAPE SANDY QUARRY
 OHIO RIVER
 RIVER MILE 673-675
 CRAWFORD COUNTY
 LEAVENWORTH, INDIANA

PREPARED FOR:

MULZER CRUSHED STONE, INC.
 19925 S ALTON-FREDONIA RD.
 LEAVENWORTH, IN 47137
 PH: (812) 649-8980

FLEETING AREAS 2 & 3 PLAN

ID. NO. LRL 2013-757



AMERICAN ENGINEERS, INC.
 2100 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3812
 Fax (502) 245-1614
 WWW.AEI.CC

FOR CROSS SECTIONS 0-0
THRU R-R SEE SHEET 6

NOTE: ALL EXISTING & PROPOSED
CABLES & WIRE ROPES ARE 1 1/8"
DIA. STEEL



SAILING LINE

OHIO RIVER FLOW



B

C

KENTUCKY
INDIANA

(2) PROP. FLEETING

(4) PROP. FLEETING

STATE LINE

(2) EX. FLEETING

SECTION LINE

EX. DEADMAN

EX. DEADMAN

EX. DEADMAN

EX. DEADMAN

(2) EX. FLEETING

EX. WATER
EDGE

EX. TOP
OF BANK

EX. DEADMAN

EX. WING CELL CONVEYOR LOADOUT
(MATERIAL LOADED INTO CONVEYOR
ON SHORE. CONVEYOR CARRIES OUT
OVER WATER & MATERIAL IS DUMPED
INTO BARGES)

EX. DEADMAN
(15' ABOVE
POOL STAGE)

EX. TRUCK LOADOUT (LOADED
TRUCKS BACK DOWN THE RAMP
& DUMP MATERIALS INTO THE
BARGES)

AD PROJECT NO. 213-148		1	REVISIONS	DATE
DRAWN BY: DAS	CHECKED BY: DCC	2		
DATE: 10/29/2013		3		
SCALE: 1"=150'	SHEET: 4 OF 10	4		
		5		
		6		
		7		

PROJECT NAME:
**CAPE SANDY
QUARRY**
OHIO RIVER
RIVER MILE 673-675
CRAWFORD COUNTY
LEAVENWORTH, INDIANA

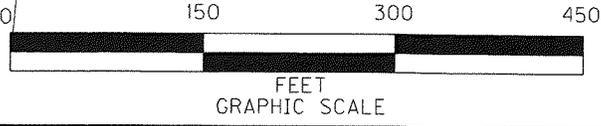
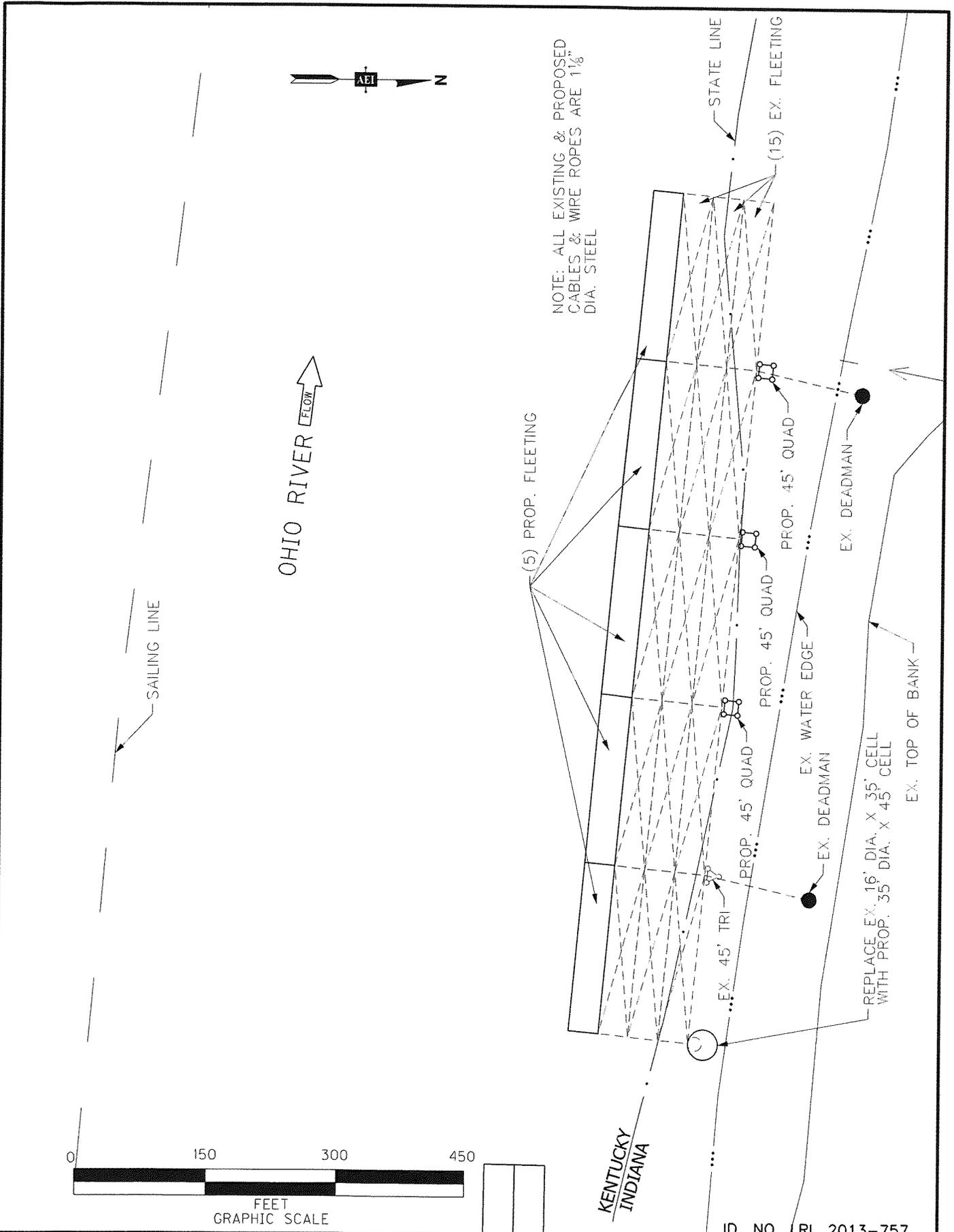
PREPARED FOR:

**MULZER CRUSHED
STONE, INC.**
19925 S ALTON-FREDONIA RD.
LEAVENWORTH, IN 47137
PH: (812) 649-8980

FLEETING
AREAS
4 & 5
PLAN

ID. NO. LRL 2013-757

AMERICAN ENGINEERS, INC.
2500 Nelson Miller Parkway
Louisville, KY 40223
901-245-3815
Fax (502) 245-3814
WWW.AEI.CO



AEI PROJECT NO.: 213-148		REVISIONS	DATE
DRAWN BY: DAS	CHECKED BY: DCC	1	
DATE: 10/29/2013		2	
SCALE: 1"=150'		3	
SHEET: 5 OF 10		4	
		5	
		6	
		7	

PROJECT NAME:
CAPE SANDY QUARRY
OHIO RIVER
RIVER MILE 673-675
CRAWFORD COUNTY
LEAVENWORTH, INDIANA

PREPARED FOR:
MULZER CRUSHED STONE, INC.
19925 S ALTON-FREDONIA RD.
LEAVENWORTH, IN 47137
PH: (812) 649-8980

FLEETING AREA 6 PLAN

AEI AMERICAN ENGINEERS, INC.
2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3818
Fax (502) 245-3814
WWW.AEI.CO

ID. NO. LRL 2013-757

FOR CROSS SECTION CX-CX
SEE SHEET 9

SAILING LINE

OHIO RIVER 



NOTE: ALL EXISTING & PROPOSED
CABLES & WIRE ROPES ARE 1 1/8"
DIA. STEEL

(5) PROP. FLEETING

(15) EX. FLEETING

(1) PROP. FLEETING

(1) EX. FLEETING

PROP. 30' QUAD

PROP. 30' QUAD

REPLACE TRI WITH
PROP. 30' QUAD

EX. 20' DIA. X 35' CELL

EX. WATER EDGE

EX. TOP OF BANK

KENTUCKY
INDIANA

STATE LINE

EX. DEADMAN

EX. DEADMAN

EX. DEADMAN

EX. DEADMAN

ID. NO. LRL 2013-757

AEI PROJECT NO: 213-148		REVISIONS	DATE
1			
2			
3			
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7			
DRAWN BY: DAS	CHECKED BY: DCC		
DATE: 10/29/2013			
SCALE: 1"=150'	SHEET: 6 OF 10		

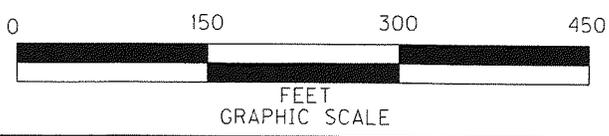
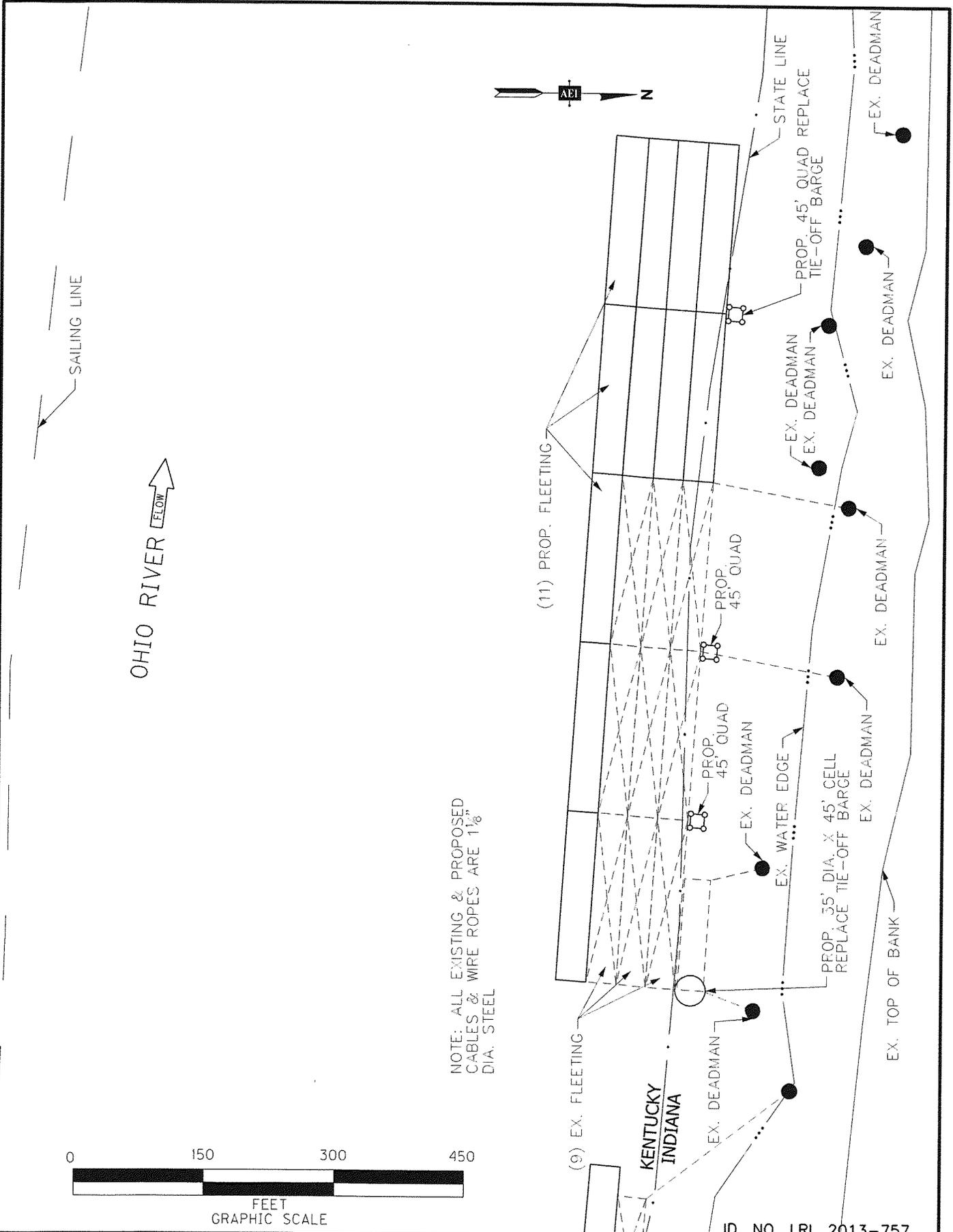
PROJECT NAME:
**CAPE SANDY
QUARRY**
OHIO RIVER
RIVER MILE 673-675
CRAWFORD COUNTY
LEAVENWORTH, INDIANA

PREPARED FOR:

**MULZER CRUSHED
STONE, INC.**
19925 S ALTON-FREDONIA RD.
LEAVENWORTH, IN 47137
PH: (812) 649-8980

**FLEETING
AREAS
7 & 8
PLAN**

AEI AMERICAN ENGINEERS, INC.
2500 Nelson Miller Parkway
Louisville, KY 40223
P502) 245-3813
Fax (502) 245-1014
WWW.AEI.CC



NOTE: ALL EXISTING & PROPOSED
CABLES & WIRE ROPES ARE 1 1/2"
DIA. STEEL

AEI PROJECT NO. 213-148		1	REVISIONS	DATE
DRAWN BY: DAS	CHECKED BY: DCC	2		
DATE: 10/29/2013		3		
SCALE: 1"=150'	SHEET: 7 OF 10	4		
		5		
		6		
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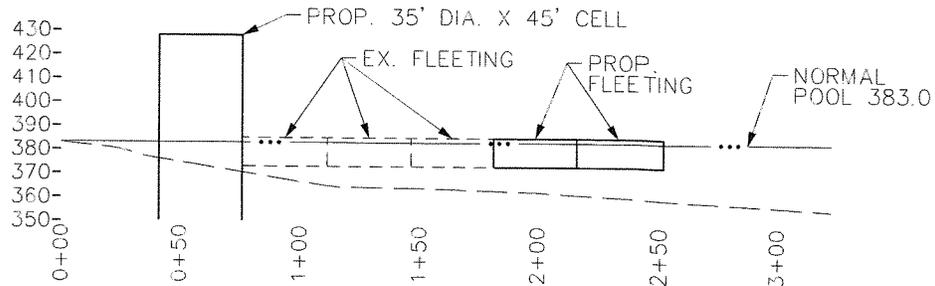
PROJECT NAME:
**CAPE SANDY
QUARRY**
OHIO RIVER
RIVER MILE 673-675
CRAWFORD COUNTY
LEAVENWORTH, INDIANA

PREPARED FOR:
**MULZER CRUSHED
STONE, INC.**
19925 S ALTON-FREDONIA RD.
LEAVENWORTH, IN 47137
PH: (812) 649-8980

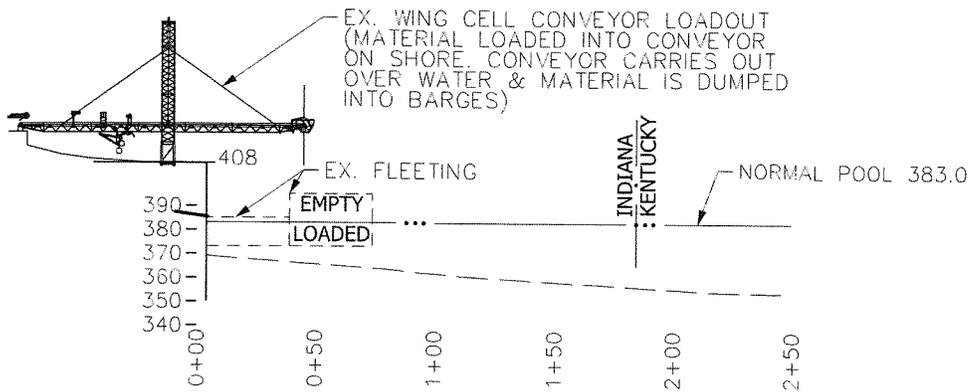
**FLEETING
AREA 9
PLAN**

ID. NO. LRL 2013-757

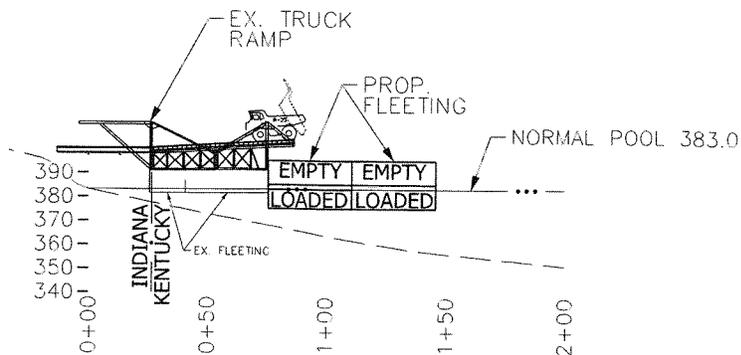
AMERICAN ENGINEERS, INC.
2506 Nelson Miller Parkway
Louisville, KY 40223
PH: (502) 245-2810
Fax: (502) 245-2814
WWW.AEI.COM



A-A



B-B



C-C



ADI PROJECT NO.: 213-148		REVISIONS	DATE
DRAWN BY: DAS	CHECKED BY: DCC	1	
DATE: 10/29/2013		2	
SCALE: 1"=80'	SHEET: 9 OF 10	3	
		4	
		5	
		6	
		7	

PROJECT NAME:
CAPE SANDY QUARRY
OHIO RIVER
RIVER MILE 673-675
CRAWFORD COUNTY
LEAVENWORTH, INDIANA

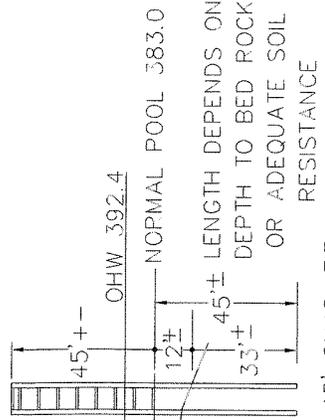
PREPARED FOR:

MULZER CRUSHED STONE, INC.
19925 S ALTON-FREDONIA RD.
LEAVENWORTH, IN 47137
PH: (812) 649-8980

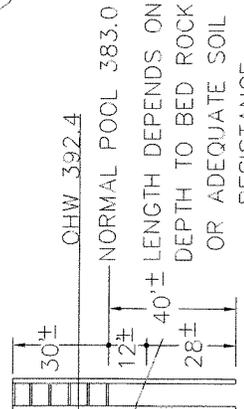
FLEETING AREAS TYPICAL CROSS SECTIONS

ID. NO. LRL 2013-757

AEI AMERICAN ENGINEERS, INC.
2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-5813
Fax 502-245-5814
www.aei.cc

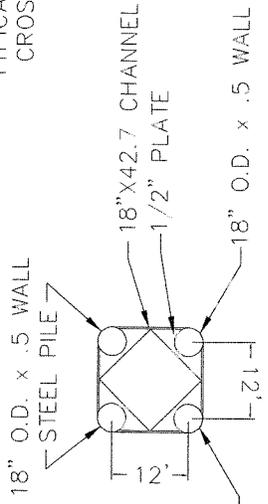


TYPICAL 45' QUAD-TIE CROSS SECTION

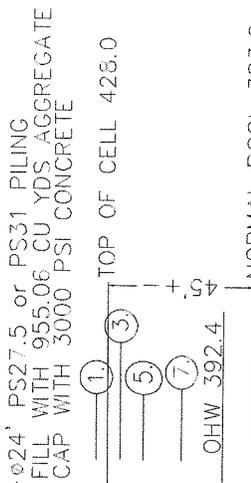


TYPICAL 30' QUAD-TIE CROSS SECTION

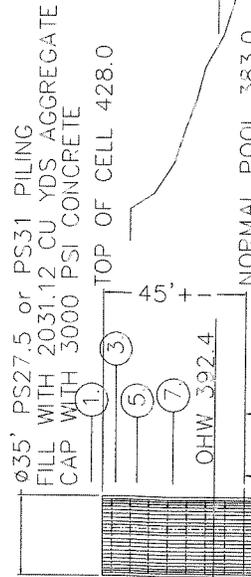
- ① 500 YEAR 431.6 0.2%
- ② 100 YEAR 426.4 1%
- ③ 50 YEAR 423.8 2%
- ④ 25 YEAR 420.7 4%
- ⑤ 10 YEAR 416.9 10%
- ⑥ 5 YEAR 412.6 20%
- ⑦ 2 YEAR 405.8 50%
- ⑧ 1 YEAR 399.0 98%



TYPICAL QUAD-TIE TOP VIEW



TYPICAL 24' CELL PS27.5/PS31 PILING CROSS SECTION



TYPICAL 35' CELL PS27.5/PS31 PILING CROSS SECTION

NOTE: A TOTAL OF 14,095 CU. YDS OF FILL WILL BE PLACED INTO THE 8 CELLS. 5292 CU. YDS WILL BE BELOW THE OHW.

AEI PROJECT NO.: 213-148		REVISIONS	DATE
DRAWN BY: DAS	CHECKED BY: DCC		
DATE: 10/29/2013			
SCALE: N/A	SHEET: 10 OF 10		

PROJECT NAME:
CAPE SANDY QUARRY
OHIO RIVER
RIVER MILE 673-675
CRAWFORD COUNTY
LEAVENWORTH, INDIANA

PREPARED FOR:
MULZER CRUSHED STONE, INC.
19925 S ALTON-FREDONIA RD.
LEAVENWORTH, IN 47137
PH: (812) 649-8980

DETAIL SHEET

AEI AMERICAN ENGINEERS, INC.
2500 Nelson Miller Parkway
Louisville, KY 40223
901-245-5813
Fax (502) 245-1814
WWW.AEI.CC

ID. NO. LRL 2013-757