

PREPARATORY INSPECTION CHECKLIST

CONTRACT NO. _____ DATE: _____

TITLE: _____ SPECS. SECTION: _____

MAJOR DEFINABLE SEGMENT OF WORK: _____

A. PERSONNEL PRESENT:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

B. REVIEW OF PLANS AND SPECIFICATIONS

B-I. IDENTIFY EACH SPECIFICATION SECTION THAT WAS REVIEWED AT THIS PREPARATORY INSPECTION.

1. _____
2. _____
3. _____
4. _____
5. _____

B-II. IDENTIFY EACH CONSTRUCTION PLAN DETAIL OR SHEET THAT WAS REVIEWED AT THIS PREPARATORY INSPECTION.

1. _____
2. _____
3. _____
4. _____
5. _____

C. TRANSMITTAL INVOLVED

	<u>NUMBER & ITEM</u>	<u>CODE</u>	<u>CONTRACTOR OR GOVERNMENT APPROVAL</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____

C-I. HAVE ALL ITEMS INVOLVED BEEN APPROVED? YES _____ NO _____

C-II. WHAT ITEMS HAVE NOT BEEN APPROVED?

<u>ITEM</u>	<u>STATUS</u>
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

D. ARE ALL MATERIALS ON HAND? YES _____ NO _____

D-I. ARE ALL MATERIALS ON HAND IN ACCORDANCE WITH APPROVALS? YES _____ NO _____

D-II. ITEMS NOT ON HAND OR NOT IN ACCORDANCE WITH TRANSMITTALS:

1. _____
2. _____
3. _____
4. _____

D. TESTS REQUIRED IN ACCORDANCE WITH CONTRACT REQUIREMENTS:

<u>TEST</u>	<u>PARAGRAPH</u>
1. _____	_____
2. _____	_____
3. _____	_____

E. ACCIDENT PREVENTION PREPLANNING – HAZARD CONTROL MEASURES:

E-I. APPLICABLE OUTLINES (ATTACH COMPLETED COPIES):

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

E-II. OPERATIONAL EQUIPMENT CHECKLISTS

ATTACHED FOR

1. _____
2. _____
3. _____

ON FILE FOR

1. _____
2. _____
3. _____

QUALITY CONTROL – PRIME CONTRACTOR

INITIAL INSPECTION CHECKLIST

CONTRACT NO: _____ DATE: _____

DESCRIPTION AND LOCATION OF WORK INSPECTED: _____

SPECS SECTION: _____ REFERENCE CONTRACT DRAWINGS: _____

A. PERSONNEL PRESENT:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

B. MATERIALS BEING USED ARE IN STRICT COMPLIANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS:

YES _____ NO _____

IF NOT, EXPLAIN: _____

C. PROCEDURES AND/OR WORK METHODS WITNESSED ARE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS: YES _____ NO _____

IF NOT, EXPLAIN: _____

D. WORKMANSHIP IS ACCEPTABLE: YES _____ NO _____

STATE AREAS WHERE IMPROVEMENT IS NEEDED: _____

E. SAFETY VIOLATIONS AND CORRECTIVE ACTION TAKEN: _____

QUALITY CONTROL REPRESENTATIVE

CONTRACTOR QUALITY CONTROL REPORT

Contract No.	
Name of Project	
Prime Contractor	

Report No.	
Date	

Today's Weather

General Description	
Temperature Range	
Precipitation	

Were there any delays in work progress today? Yes No
 If Yes, Explain

Describe any verbal instructions given by Government personnel
 (include name of person giving instruction)

Has anything developed which might lead to a change order or claim?
 Yes No If Yes, Explain

Contractor/Subcontractors On Site

Name of Contractor	Hours on Site	Area of Responsibility

Prime Contract/Subcontractor Workforce

Employer	Trade	No.	Hours

Major Items of Equipment

Type/Capacity	Contractor	No.	Oper. Hours	Standby Hours	Repair Hours

Work Performed this date (enter all activities started but not previously reported as completed)

Act. No.	Actual Start Date	Actual Finish Date	Description of work performed this date and major material deliveries today. Identify contractor performing the work.

Off-site Surveillance Activities, including actions taken

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Definable Features of Work - History

Definable Features of Work (List all) <i>Attach checklist for each Preparatory or Initial Phase Inspection held this date.</i>	Preparatory Inspection Date	Initial Inspection Date

Unit Price Work Completed This Date

CLIN	Description	Unit	Contract Quantity	Quantity Completed This Date	Total To Date

Deficiencies Noted or Corrected This Date

Act. No.	Description of Deficiency	Noted	Corrected

CQC Testing

Act. No.	Description <i>Include reference to contract specification.</i>	Test Results	Pass/Fail

The following Equipment Safety Checklists are attached to this report.

Were there any Lost Time Accidents this date? Yes No
 If Yes, attach accident report.

Safety Inspections: Identify results of all safety inspections and meetings this date. State what was checked and instructions given and corrective actions taken.

User Schooling Conducted

Act. No.	Description of Schooling and Names of Participants

Materials Received (note quantity of materials received, inspection results and storage provided)

Other General Comments

The following items are attached to this CQC Report

Contractor Certification

On behalf of the contractor, I certify that this report is complete and correct and all equipment and material used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

Contract Quality Control Manager: _____

Signature: _____

Date: _____

BID BOND
(See instructions on reverse)

DATE BOND EXECUTED (Must not be later than bid opening date)

FORM APPROVED OMB NO.

9000-0045

Public reporting burden for this collection of information is estimated to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the FAR Secretariat (VRS), Office of Federal Acquisition Policy, GSA, Washington, D.C. 20405; and to the Office of Management and Budget, Paperwork Reduction Project (9000-0045), Washington, D.C. 20503.

PRINCIPAL (Legal name and business address)

TYPE OF ORGANIZATION ("X" one)

- INDIVIDUAL PARTNERSHIP
 JOINT VENTURE CORPORATION

STATE OF INCORPORATION

SURETY(IES) (Name and business address)

PENAL SUM OF BOND					BID IDENTIFICATION	
PERCENT OF BID PRICE	AMOUNT NOT TO EXCEED				BID DATE	INVITATION NO.
	MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENTS		
FOR (Construction, Supplies or Services)						

OBLIGATION:

We, the Principal and Surety(ies) are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a suit or action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, to the payment of the sum shown opposite the name of the Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.

CONDITIONS:

The Principal has submitted the bid identified above.

THEREFORE:

The above obligation is void if the Principal - (a) upon receipt by the Government of the bid identified above, within the period specified therein for acceptance (sixty (60) days, no period is specified), executes the further contractual documents and gives the bond(s) required by the terms of the bid as accepted within the time specified (ten (10) days if no period is specified) after receipt of the forms by the principal; or (b) in the event of failure to execute such further contractual documents and give such bonds, pays the Government for any cost of procuring the work which exceeds the amount of the bid.

Each Surety executing this instrument agrees that its obligation is not impaired by any extension(s) of the time for acceptance of the bid that the Principal may grant to the Government. Notice to the surety(ies) of extension(s) are waived. However, waiver of the notice applies only to extensions aggregating not more than sixty (60) calendar days in addition to the period originally allowed for acceptance of the bid.

WITNESS:

The Principal and Surety(ies) executed this bid bond and affixed their seals on the above date.

PRINCIPAL

SIGNATURE(S)	1.	2.	3.	Corporate Seal
	(Seal)	(Seal)	(Seal)	
NAME(S) & TITLE(S) (Type)	1.	2.	3.	Corporate Seal

INDIVIDUAL SURETY(IES)

SIGNATURE(S)	1.	2.	(Seal)
	(Seal)	(Seal)	
NAME(S) (Type)	1.	2.	(Seal)

CORPORATE SURETY(IES)

SURETY A	NAME & ADDRESS	STATE OF INC.	LIABILITY LIMIT \$	Corporate Seal
	SIGNATURE(S)	1.	2.	
	NAME(S) & TITLE(S) (Type)	1.	2.	

CORPORATE SURETY(IES) (Continued)

SURETY B	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE(S)	1.	2.	\$	
	NAME(S) & TITLE(S) (Type Ⓞ)	1.	2.		
SURETY C	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE(S)	1.	2.	\$	
	NAME(S) & TITLE(S) (Type Ⓞ)	1.	2.		
SURETY D	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE(S)	1.	2.	\$	
	NAME(S) & TITLE(S) (Type Ⓞ)	1.	2.		
SURETY E	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE(S)	1.	2.	\$	
	NAME(S) & TITLE(S) (Type Ⓞ)	1.	2.		
SURETY F	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE(S)	1.	2.	\$	
	NAME(S) & TITLE(S) (Type Ⓞ)	1.	2.		
SURETY G	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE(S)	1.	2.	\$	
	NAME(S) & TITLE(S) (Type Ⓞ)	1.	2.		

INSTRUCTIONS

1. This form is authorized for use when a bid guaranty is required. Any deviation from this form will require the written approval of the Administrator of General Services.
2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. A authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
3. The bond may express penal sum as a percentage of the bid price. In these cases, the bond may state a maximum dollar limitation (e.g., 20% of the bid price but the amount not to exceed _____ dollars).
4. (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of approved sureties and must act within the limitation listed therein. Where more than one corporate surety is involved, their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)." In the space designated "SURETY(IES)" on the face of the form insert only the letter identification of the sureties.
 (b) Where individual sureties are involved, a completed Affidavit of Individual Surety (Standard Form 28), for each individual surety shall accompany the bond. The Government may require the surety to furnish additional substantiating information concerning its financial capability.
5. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the word "Corporate Seal"; and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.
6. Type the name and title of each person signing this bond in the space provided.
7. In its application to negotiated contracts, the terms "bid" and "bidder" shall include "proposal" and "offeror."

PERFORMANCE BOND <i>(See Instructions on reverse)</i>		DATE BOND EXECUTED <i>(Must be same or later than date of contract)</i>							
PRINCIPAL <i>(Legal name and business address)</i>		TYPE OF ORGANIZATION <i>("X" one)</i>							
		<input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input type="checkbox"/> CORPORATION							
SURETY(IES) <i>(Name(s) and business address(es))</i>		STATE OF INCORPORATION							
		PENAL SUM OF BOND <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">MILLION(S)</td> <td style="width: 25%;">THOUSAND(S)</td> <td style="width: 25%;">HUNDRED(S)</td> <td style="width: 25%;">CENTS</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENTS		
MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENTS						
		CONTRACT DATE	CONTRACT NO.						

OBLIGATION:

We, the Principal and Surety(ies), are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any one of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of the Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.

CONDITIONS:

The Principal has entered into the contract identified above.

THEREFORE,

The above obligation is void if the Principal —

(a) Performs and fulfills all the undertakings, covenants, terms, conditions, and agreements of the contract during the original term of the contract and any extensions thereof that are required by the Government, with or without notice to the Surety(ies), and during the life of any guaranty required under the contract, and to perform and fulfill all the undertakings, covenants, terms conditions, and agreements of any and all duly authorized modifications of the contract that hereafter are made. Notice of those modifications to the Surety(ies) are waived.

(b) Pays to the Government the full amount of the taxes imposed by the Government, if the said contract is subject to the Miller Act, (40 U.S.C. 270a-270e), which are collected, deducted, or withheld from wages paid by the Principal in carrying out the construction contract with respect to which this bond is furnished.

WITNESS

The Principal and Surety(ies) executed this performance bond and affixed their seals on the above date.

PRINCIPAL				
Signature(s)	1.	2.	Corporate Seal	
	<i>(Seal)</i>	<i>(Seal)</i>		
Name(s) & Title(s) <i>(Typed)</i>	1.	2.		
	INDIVIDUAL SURETY(IES)			
Signature(s)	1.	2.		
	<i>(Seal)</i>	<i>(Seal)</i>		
Name(s) <i>(Typed)</i>	1.	2.		
	CORPORATE SURETY(IES)			
SURETY A	Name & Address	STATE OF INC.	LIABILITY LIMIT \$	
	Signature(s)	1.	2.	Corporate Seal
		<i>(Seal)</i>	<i>(Seal)</i>	
Name(s) & Title(s) <i>(Typed)</i>	1.	2.		

NSN 7540-01-152-8060
PREVIOUS EDITION USABLE
25-106
STANDARD FORM 26 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR 53.228 (b))

CORPORATE SURETY(IES) (Continued)

		STATE OF INC.	LIABILITY LIMIT	
SURETY B	Name & Address		\$	<i>Corporate Seal</i>
	Signature(s)	1. _____	2. _____	
	Name(s) & Title(s) (Typed)	1. _____	2. _____	
SURETY C	Name & Address		\$	<i>Corporate Seal</i>
	Signature(s)	1. _____	2. _____	
	Name(s) & Title(s) (Typed)	1. _____	2. _____	
SURETY D	Name & Address		\$	<i>Corporate Seal</i>
	Signature(s)	1. _____	2. _____	
	Name(s) & Title(s) (Typed)	1. _____	2. _____	
SURETY E	Name & Address		\$	<i>Corporate Seal</i>
	Signature(s)	1. _____	2. _____	
	Name(s) & Title(s) (Typed)	1. _____	2. _____	
SURETY F	Name & Address		\$	<i>Corporate Seal</i>
	Signature(s)	1. _____	2. _____	
	Name(s) & Title(s) (Typed)	1. _____	2. _____	
SURETY G	Name & Address		\$	<i>Corporate Seal</i>
	Signature(s)	1. _____	2. _____	
	Name(s) & Title(s) (Typed)	1. _____	2. _____	

BOND PREMIUM ▶	RATE PER THOUSAND	TOTAL
	\$ _____	\$ _____

INSTRUCTIONS

1. This form is authorized for use in connection with Government contracts. Any deviation from this form will require the written approval of the Administrator of General Services.

2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorization person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.

3. (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of approved sureties and must act within the limitation listed therein. Where more than one corporate surety is involved, their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE

SURETY(IES)". In the space designated "SURETY(IES)" on the face of the form insert only the letter identification of the sureties.

(b) Where individual sureties are involved, two or more responsible persons shall execute the bond. A completed Affidavit of Individual Surety (Standard Form 28), for each individual surety, shall accompany the bond. The Government may require these sureties to furnish additional substantiating information concerning their financial capability.

4. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the word "Corporate Seal", and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.

5. Type the name and title of each person signing this bond in the space provided.

PAYMENT BOND <i>(See Instructions on reverse)</i>	DATE BOND EXECUTED <i>(Must be same or later than date of contract)</i>			
PRINCIPAL <i>(Legal name and business address)</i>	TYPE OF ORGANIZATION <i>("X" one)</i>			
	<input type="checkbox"/> INDIVIDUAL		<input type="checkbox"/> PARTNERSHIP	
	<input type="checkbox"/> JOINT VENTURE		<input type="checkbox"/> CORPORATION	
SURETY(IES) <i>(Name(s) and business address(es))</i>	STATE OF INCORPORATION			
	PENAL SUM OF BOND			
	MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENTS
	CONTRACT DATE		CONTRACT NO.	

OBLIGATION:

We, the Principal and Surety(ies), are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of the Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.

CONDITIONS:

The above obligation is void if the Principal promptly makes good on all persons having a direct relationship with the Principal or a subcontractor of the Principal for furnishing labor, material or both in the prosecution of the work provided for in the contract identified above, and any authorized modifications of the contract or subsequently are made. Notice of those modifications to the Surety(ies) are waived.

WITNESS:

The Principal and Surety(ies) executed this payment bond and affixed their seals on the above date.

PRINCIPAL				
Signature(s)	1.	2.	Corporate Seal	
	<i>(Seal)</i>	<i>(Seal)</i>		
Name(s) & Title(s) <i>(Typed)</i>	1.	2.		
	INDIVIDUAL SURETY(IES)			
Signature(s)	1.	2.	Corporate Seal	
	<i>(Seal)</i>			
Name(s) <i>(Typed)</i>	1.	2.		
	CORPORATE SURETY(IES)			
SURETY A	Name & Address	STATE OF INC.	LIABILITY LIMIT	Corporate Seal
			\$	
	Signature(s)	1.	2.	
Name(s) & Title(s) <i>(Typed)</i>	1.	2.		

CORPORATE SURETY(IES) (Continued)

SURETY B	Name & Address	STATE OF INC.		LIABILITY LIMIT	Corporate Seal
	Signature(s)	1.	2.		
	Name(s) & Title(s) (Typed)	1.	2.		
SURETY C	Name & Address	STATE OF INC.		LIABILITY LIMIT	Corporate Seal
	Signature(s)	1.	2.		
	Name(s) & Title(s) (Typed)	1.	2.		
SURETY D	Name & Address	STATE OF INC.		LIABILITY LIMIT	Corporate Seal
	Signature(s)	1.	2.		
	Name(s) & Title(s) (Typed)	1.	2.		
SURETY E	Name & Address	STATE OF INC.		LIABILITY LIMIT	Corporate Seal
	Signature(s)	1.	2.		
	Name(s) & Title(s) (Typed)	1.	2.		
SURETY F	Name & Address	STATE OF INC.		LIABILITY LIMIT	Corporate Seal
	Signature(s)	1.	2.		
	Name(s) & Title(s) (Typed)	1.	2.		
SURETY G	Name & Address	STATE OF INC.		LIABILITY LIMIT	Corporate Seal
	Signature(s)	1.	2.		
	Name(s) & Title(s) (Typed)	1.	2.		

INSTRUCTIONS

1. This form, for the protection of persons supplying labor and material, is used when a payment bond is required under the Act of August 24, 1935, 49 Stat. 793 (40 U.S.C. 270 a-270e). Any deviation from this form will require the written approval of the Administrator of General Services.
2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
3. (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of approved sureties and must act within the limitation listed therein. Where more than one corporate surety is involved, their names and addresses shall appear

in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)". In the space designated "SURETY(IES)" on the face of the form, insert only the letter identification of the sureties.

(b) Where individual sureties are involved, two or more responsible persons shall execute the bond. A completed Affidavit of Individual Surety (Standard Form 28), for each individual surety, shall accompany the bond. The Government may require these sureties to furnish additional substantiating information concerning their financial capability.

4. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the word "Corporate Seal"; and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction regarding adhesive seals.

5. Type the name and title of each person signing this bond in the space provided.

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE <i>(Read instructions on the reverse side prior to initiating this form)</i>	DATE	TRANSMITTAL NO.
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SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO:	FROM:	CONTRACT NO.	CHECK ONE: <input type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL # _____
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SPECIFICATION SEC. NO. <i>(Cover only one section with each transmittal)</i>	PROJECT TITLE AND LOCATION	CHECK ONE: THIS TRANSMITTAL IS FOR <input type="checkbox"/> FIO <input type="checkbox"/> GOV'T. APPROVAL
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ITEM NO.	DESCRIPTION OF ITEM SUBMITTED <i>(Type size, model number/etc.)</i>	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. <i>(See instruction no. 8)</i>	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION <i>(See instruction No. 6)</i>	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.

REMARKS	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated. _____ NAME AND SIGNATURE OF CONTRACTOR
---------	---

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED <i>(List by Item No.)</i>	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE
---	--	------

INSTRUCTIONS

1. Section I will be initiated by the Contractor in the required number of copies.
2. Each transmittal shall be numbered consecutively in the space provided for "Transmittal No.". This number, in addition to the contract number, will form a serial number for identifying each submittal. For new submittals or resubmittals mark the appropriate box; on resubmittals, insert transmittal number of last submission as well as the new submittal number.
3. The "Item No." will be the same "Item No." as indicated on ENG FORM 4288-R for each entry on this form.
4. Submittals requiring expeditious handling will be submitted on a separate form.
5. Separate transmittal form will be used for submittals under separate sections of the specifications.
6. A check shall be placed in the "Variation" column when a submittal is not in accordance with the plans and specifications--also, a written statement to that effect shall be included in the space provided for "Remarks".
7. Form is self-transmittal, letter of transmittal is not required.
8. When a sample of material or Manufacturer's Certificate of Compliance is transmitted, indicate "Sample" or "Certificate" in column c, Section I.
9. U.S. Army Corps of Engineers approving authority will assign action codes as indicated below in space provided in Section I, column i to each item submitted. In addition they will ensure enclosures are indicated and attached to the form prior to return to the contractor. The Contractor will assign action codes as indicated below in Section I, column g, to each item submitted.

THE FOLLOWING ACTION CODES ARE GIVEN TO ITEMS SUBMITTED

- | | |
|---|---|
| A -- Approved as submitted. | E -- Disapproved (See attached). |
| B -- Approved, except as noted on drawings. | F -- Receipt acknowledged. |
| C -- Approved, except as noted on drawings.
Refer to attached sheet resubmission required. | FX -- Receipt acknowledged, does not comply
as noted with contract requirements. |
| D -- Will be returned by separate correspondence. | G -- Other (<i>Specify</i>) |
10. Approval of items does not relieve the contractor from complying with all the requirements of the contract plans and specifications.

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
EAST PIERHEAD REPAIR, CLEVELAND HARBOR, OHIO

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				REMARKS		
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01355	SD-01 Preconstruction Submittals														
			Environmental Protection Plan	1.7	G TSD												
		01451	SD-01 Preconstruction Submittals														
			Quality Control Plan	3.2	G AOF												
			Quality Control Plan	3.4.3	G AOF												
			Contractor Quality Control Plan Checklist		G AOF												
		01525	SD-01 Preconstruction Submittals														
			Accident Prevention Plan (APP)	1.8	G AOF												
			Activity Hazard Analysis (AHA)	1.9	G AOF												
			Crane Critical Lift Plan	1.8.1	G AOF												
			Crane Work Plan	1.8.1	G AOF												
			Proof of qualification	3.3.3	G AOF												
			SD-06 Test Reports														
			Reports	1.13													
			Accident Reports	1.13.1													
			Monthly Exposure Reports	1.13.3													
			Regulatory Citations and Violations	1.13.4													
			Crane Reports	1.13.5													
			SD-07 Certificates														
			Confined Space Entry Permit	1.10													
		01780	SD-02 Shop Drawings														
			As-Built Drawings	1.2.1	G AOF												
			SD-03 Product Data														
			Warranty Management Plan	1.3.1	G AOF												

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
EAST PIERHEAD REPAIR, CLEVELAND HARBOR, OHIO

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE			DATE OF ACTION
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		02075	SD-01 Preconstruction Submittals Work Plan	1.6.1	G AOF												
			Disposal of Concrete, Debris and Wastewater														
		02464	SD-01 Preconstruction Submittals Pile Driving Work Plan														
			SD-02 Shop Drawings Metal Sheet Piling	2.1	G TSD												
			Driving	3.1.2.2													
			SD-03 Product Data Pile Driving Equipment	3.1.1	G AOF												
			SD-05 Design Data Pile Properties, Layouts & Calculations	2.1.1	G TSD												
			SD-06 Test Reports Materials Tests	2.3.1													
		02485	SD-01 Preconstruction Submittals Quality Control Plan		G AOF												
			Quarry Operations and Handling Construction Equipment	2.1.2	G AOF												
			SD-04 Samples Material Sampling and Shipping	1.8	G TSD												
			Evaluation Testing	3.2.1	G TSD												
		03101	SD-02 Shop Drawings Shop Drawings	1.5													
			SD-03 Product Data														

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
EAST PIERHEAD REPAIR, CLEVELAND HARBOR, OHIO

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				MAILED TO CONTRV	REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE			DATE OF ACTION
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		03101	Materials	2.1													
			SD-06 Test Reports														
			Inspection	3.3													
		03150	SD-06 Test Reports														
			Premolded Expansion Joint Filler Strips	2.1													
			SD-07 Certificates														
			Field Molded Sealants	2.2													
			Premolded Expansion Joint Filler Strips	2.1													
		03200	SD-02 Shop Drawings														
			Detail Drawings		G TSD												
			SD-07 Certificates														
			Qualifications	1.4													
			Certified Mill Reports														
		03300	SD-01 Preconstruction Submittals														
			Concrete Placement Plan		G TSD												
			SD-03 Product Data														
			Construction Equipment List	3.6.1.1													
			Mix Designs		G TSD												
			Fabric Bags		G TSD												
			SD-06 Test Reports														
			Sampling and Testing	3.4													
			SD-07 Certificates														
			Cementitious Materials	2.2													
			Accelerating Admixture	2.1.1													

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
EAST PIERHEAD REPAIR, CLEVELAND HARBOR, OHIO

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE			DATE OF ACTION
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		03300	Impervious Sheet Curing Materials	2.4.1													
			Air-entraining Admixture	2.1.2													
			Water-reducing Admixture	2.1.3													
			Curing Compound	2.4.2													
			Retarding Admixture	2.1.3													
			Antiwashout Admixture														
			Microsilica Admixture														
		03750	SD-03 Product Data Materials														
			SD-07 Certificates Materials														
			Resin Cartridges	2.2													
			Polyester Resin Grout	2.3													
		05501	SD-03 Product Data Material and Work Orders		G AOF												
			SD-07 Certificates Qualification of Welders and Welding Operators	1.5													
		05502	SD-02 Shop Drawings Miscellaneous Metal and Shop Fabricated Items		G TSD												
			SD-04 Samples Miscellaneous Metal Items		G AOF												
			SD-07 Certificates Miscellaneous Metal Materials	2.1													

General Decision Number: OH030002 08/20/2004

General Decision Number: OH030002 08/20/2004

Superseded General Decision Number: OH020002

State: **Ohio**

Construction Types: **Heavy and Highway**

Counties: **Ohio** Statewide.

Heavy and Highway Construction Projects

Modification Number	Publication Date
0	06/13/2003
1	03/19/2004
2	04/02/2004
3	04/16/2004
4	05/14/2004
5	06/18/2004
6	07/16/2004
7	08/06/2004
8	08/13/2004
9	08/20/2004

* BRKY0007-003 06/01/2004

LAWRENCE

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.36	11.08

* BROH0001-001 07/01/2004

DEFIANCE, FULTON (Excluding Fulton, Amboy & Swan Creek Townships), HENRY (Excluding Monroe, Bartlow, Liberty, Washington, Richfield, Marion, Damascus & Townships & that part of Harrison Township outside corporate limits of city of Napoleon), PAULDING, PUTNAM & WILLIAMS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 27.80	6.30

BROH0001-004 06/01/2003

	Rates	Fringes
Cement Mason.....	\$ 22.00	6.60

* BROH0003-002 07/01/2004

FULTON (Townships of Amboy, Swan Creek & Fulton), HENRY

(Townships of Washington, Damascus, Richfield, Bartlow, Liberty, Harrison, Monroe, & Marion), LUCAS & WOOD (Townships of Perrysburg, Ross, Lake, Troy, Freedom, Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty, Henry, Washington, Weston, Milton, Jackson & Grand Rapids)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 25.75	10.13

 BROH0005-003 05/01/2004

CUYAHOGA, LORAIN & MEDINA (Hinckley, Granger, Brunswick, Liverpool, Montville, York, Homer, Harrisville, Chatham, Litchfield & Spencer Townships and the city of Medina)

	Rates	Fringes
Bricklayer		
BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; &		
STONEMASONS.....	\$ 26.83	8.91
SANDBLASTERS.....	\$ 27.08	8.91
SEWER BRICKLAYERS; STACK BUILDERS; & SWING SCAFFOLDS.	\$ 27.33	8.91

 BROH0006-005 05/01/2004

CARROLL, COLUMBIANA (Knox, Butler, West & Hanover Townships), STARK & TUSCARAWAS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.83	9.05

 * BROH0007-005 06/01/2004

PORTAGE & SUMMIT

	Rates	Fringes
Bricklayer.....	\$ 26.38	9.16

 BROH0007-010 06/01/2003

PORTAGE & SUMMIT

	Rates	Fringes
Stonemason.....	\$ 25.40	5.73

 BROH0008-001 06/01/2003

COLUMBIANA (Salem, Perry, Fairfield, Center, Elk Run, Middleton, & Unity Townships and the city of New Waterford) & MAHONING, and the city of Youngstown

	Rates	Fringes
Bricklayer.....	\$ 23.27	9.35

BROH0009-002 07/01/2004

BELMONT, JEFFERSON (Warren & Mt. Pleasant Townships & the Village of Dillonvale) & MONROE

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 21.00	10.92

BROH0010-002 06/01/2004

COLUMBIANA (St. Clair, Madison, Wayne, Franklin, Washington, Yellow Creek & Liverpool Townships) & JEFFERSON (Brush Creek & Saline Townships)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 22.50	9.60

BROH0014-002 07/01/2004

HARRISON & JEFFERSON (Except Mt. Pleasant, Warren, Brush Creek, Saline & Salineville Townships & the Village of Dillonvale)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.05	8.85

BROH0015-002 06/01/2003

NOBLE (Brookfield, Noble, Center, Sharon, Olive, Enoch, Stock, Jackson, Jefferson & Elk Townships) & WASHINGTON

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 21.75	7.96

BROH0016-002 05/01/2004

ASHTABULA, GEAUGA & LAKE

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 27.05	8.80

BROH0018-002 06/01/2003

BROWN, BUTLER, CLERMONT, HAMILTON, PREBLE (Gasper, Dixon, Israel, Lanier, Somers & Gratis Townships) & WARREN COUNTIES:

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.71	7.89

BROH0022-004 11/01/2003

CHAMPAIGN, CLARK, CLINTON, DARKE, GREENE, HIGHLAND, LOGAN, MIAMI, MONTGOMERY, PREBLE (Jackson, Monroe, Harrison, Twin, Jefferson & Washington Townships) & SHELBY

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.95	7.59

* BROH0032-001 06/01/2004

GALLIA & MEIGS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 25.27	8.40

* BROH0035-002 07/01/2004

ALLEN, AUGLAIZE, MERCER & VAN WERT

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 22.90	8.35

* BROH0039-002 06/01/2004

ADAMS & SCIOTO

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.50	10.94

BROH0040-003 06/01/2004

ASHLAND, CRAWFORD, HARDIN, HOLMES, MARION, MORROW, RICHLAND, WAYNE (Except Milton & Chippewa Townships) & WYANDOT (Except Crawford, Ridge, Richland & Tymochtee Townships)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.61	10.33
Layout Man and Sawman rate: \$1.00 per hour above journeyman rate.		
Free standing stack work ground level to top of stack;		
Sandblasting and laying of carbon masonry material in swing stage and/or scaffold; Ramming and spading of plastics and gunniting: \$1.50 per hour above journeyman rate.		
"Hot" work: \$2.50 above journeyman rate.		

BROH0043-002 06/01/2004

TRUMBULL COUNTY (Except city of Youngstown)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 24.65	8.97

BROH0044-002 06/01/2003

	Rates	Fringes
Bricklayer, Stonemason COSHOCKTON, FAIRFIELD, GUERNSEY, HOCKING, KNOX, KICKING, MORGAN, MUSKINGUM, NOBLE (Beaver, Buffalo, Seneca & Wayne Townships) & PERRY COUNTIES:	\$ 21.85	7.85

BROH0045-002 06/01/2003

FAYETTE, JACKSON, PIKE, ROSS & VINTON

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.30	8.35

 BROH0046-002 06/01/2004

ERIE, HANCOCK, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships), & the islands of Lake Erie north of Sandusky.

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.33	11.30
Layout Man and Sawman rate:	\$1.00 per hour above journeyman rate.	

Free standing stack work ground level to top of stack;
 Sandblasting and laying of carbon masonry material in swing stage and/or scaffold; Ramming and spading of plastics and gunniting: \$1.50 per hour above journeyman rate.

"Hot" work: \$2.50 above journeyman rate.

 * BROH0052-001 06/01/2004

ATHENS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.18	8.65

 BROH0055-003 06/01/2003

DELAWARE, FRANKLIN, MADISON, PICKAWAY & UNION

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.20	8.45

 CARP0003-004 05/01/2004

MAHONING & TRUMBULL

	Rates	Fringes
Carpenter.....	\$ 20.86	10.40

 CARP0069-003 05/01/2004

CARROLL, STARK, TUSCARAWAS & WAYNE

	Rates	Fringes
Carpenter.....	\$ 20.71	9.41

 CARP0069-006 05/01/2004

COSHOCTON, HOLMES, KNOX & MORROW

	Rates	Fringes
Carpenter.....	\$ 20.32	8.79

CARP0171-002 05/01/2004
 BELMONT, COLUMBIANA, HARRISON, JEFFERSON & MONROE

	Rates	Fringes
Carpenter.....	\$ 20.61	10.53

CARP0248-005 07/01/2001
 LUCAS & WOOD

	Rates	Fringes
Carpenter.....	\$ 23.90	9.95

CARP0248-008 07/01/2001

	Rates	Fringes
Carpenter		
DEFIANCE, HANCOCK, HENRY, PAULDING & WILLIAMS COUNTIES	\$ 20.05	9.95
FULTON COUNTY.....	\$ 20.16	9.95

CARP0254-002 05/01/2004
 ASHTABULA, CUYAHOGA, GEAUGA & LAKE

	Rates	Fringes
Carpenter.....	\$ 26.20	9.35

CARP0372-002 07/01/2001
 ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM & VAN WERT

	Rates	Fringes
Carpenter.....	\$ 20.05	8.95

CARP0639-003 05/01/2004
 MEDINA, PORTAGE & SUMMIT

	Rates	Fringes
Carpenter.....	\$ 24.48	9.48

CARP0735-002 05/01/2004
 ASHLAND, ERIE, HURON, LORAIN & RICHLAND

	Rates	Fringes
Carpenter.....	\$ 19.97	9.03

CARP1311-001 05/01/2000
 CHAMPAIGN, CLARK & LOGAN

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 22.42	4.73
Diver (4 Hours' Minimum Pay)...	\$ 33.63	4.73

CARP1311-008 05/01/2000

DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & SHELBY

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 22.42	4.73
Diver (4 Hours' Minimum Pay)...	\$ 33.63	4.73

CARP1311-009 05/01/2000
 BROWN, BUTLER, CLERMONT, CLINTON, HAMILTON & WARREN

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 22.42	4.73
Diver (4 Hours' Minimum Pay)...	\$ 33.63	4.73

CARP1393-002 07/01/2000
 CRAWFORD, DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA,
 PAULDING, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
Piledrivermen & Diver's Tender.	\$ 21.61	11.07

DIVERS - \$250.00 per day

CARP1393-003 07/01/2000
 ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM, VAN WERT & WYANDOT

	Rates	Fringes
Piledrivermen & Diver's Tender.	\$ 20.68	9.32

DIVERS - \$250.00 per day

CARP1871-006 05/01/2004
 BELMONT, HARRISON, & MONROE

	Rates	Fringes
Diver, Wet.....	\$ 34.76	10.58
Piledrivermen; Diver, Dry.....	\$ 23.17	10.58

DIVERS - 8 HOURS' PAY MINIMUM

CARP1871-008 05/01/2004
 ASHLAND, ASHTABULA, CUYAHOGA, ERIE, GEAUGA, HURON, LAKE,
 LORAIN, MEDINA, PORTAGE, RICHLAND & SUMMIT

	Rates	Fringes
Diver, Wet.....	\$ 37.88	10.30
Piledrivermen; Diver, Dry.....	\$ 25.25	10.30

DIVERS - 8 HOURS' PAY MINIMUM

CARP1871-014 05/01/2004
 CARROLL, STARK, TUSCARAWAS & WAYNE

	Rates	Fringes
Diver, Wet.....	\$ 30.60	10.20
Piledrivermen; Diver, Dry.....	\$ 20.40	10.20

DIVERS - 8 HOURS' PAY MINIMUM

CARP1871-015 05/01/2004

COSHOCOTON, HOLMES, KNOX & MORROW

	Rates	Fringes
Diver, Wet.....	\$ 30.71	9.33
Piledrivermen; Diver, Dry.....	\$ 20.47	9.33

DIVERS - 8 HOURS' PAY MINIMUM

CARP1871-017 05/01/2004

MAHONING & TRUMBULL

	Rates	Fringes
Diver, Wet.....	\$ 32.42	10.62
Piledrivermen; Diver, Dry.....	\$ 21.61	10.62

DIVERS - 8 HOURS' PAY MINIMUM

CARP2239-001 07/01/2001

CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT

	Rates	Fringes
Carpenter.....	\$ 20.82	9.95

CARP2264-004 01/01/2002

COLUMBIANA & JEFFERSON

	Rates	Fringes
Piledriverman.....	\$ 23.82	8.48

CARP9904-001 05/01/2000

ADAMS, ATHENS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA,
GUERNSEY, HIGHLAND, HOCKING, JACKSON, LAWRENCE, LICKING,
MADISON, MARION, MEIGS, MORGAN, MUSKINGUM, NOBLE, PERRY,
PICKAWAY, PIKE, ROSS, SCIOTO, UNION, VINTON & WASHINGTON

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 21.86	5.27
Diver (4 Hours' Minimum Pay)...	\$ 32.79	5.27

ELEC0008-002 05/24/2004

DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING,
PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
Cable splicer.....	\$ 30.54	14.56
Electrician.....	\$ 29.09	14.49

ELEC0032-003 12/01/2003

ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY, VAN WERT &

WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Ridgeland,
Ridge & Salem Townships)

	Rates	Fringes
Electrician.....	\$ 25.87	8.22

ELEC0032-004 06/01/1998

ALLEN, HARDIN, VAN WERT & WYANDOT (Crawford, Jackson,
Marseilles, Mifflin, Richland, Ridge & Salem Townships)

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 20.27	4.12+a
Groundman Truck Driver.....	\$ 14.43	3.63+a
Lineman.....	\$ 22.52	4.31+a

FOOTNOTE: a. Half day's Paid Holiday: The last 4 hours of
the workday prior to Christmas or New Year's Day

ELEC0038-002 04/26/2004

CUYAHOGA, GEAUGA (Bainbridge, Chester & Russell Townships) &
LORAIN (Columbia Township)

	Rates	Fringes
Electrician		
Excluding Sound & Communications Work.....	\$ 31.43	12.41

ELEC0038-003 10/27/2003

CUYAHOGA, GEAUGA (Bainbridge, Chester & Russell Townships) &
LORAIN (Columbia Township)

	Rates	Fringes
Sound & Communication Technician		
Communications Technician...	\$ 19.85	6.96+a+b
Installer Technician.....	\$ 19.10	6.88+a+b

FOOTNOTES;

- a. 6 Paid Holidays: New Year's Day; Memorial Day; July 4th;
Labor Day; Thanksgiving Day; & Christmas Day
- b. 1 week's paid vacation for 1 year's service; 2 weeks' paid
vacation for 2 or more years' service

ELEC0064-003 05/31/2004

COLUMBIANA (Butler, Fairfield, Perry, Salem & Unity Townships)
MAHONING (Austintown, Beaver, Berlin, Boardman, Canfield,
Ellsworth, Coitsville, Goshen, Green, Jackson, Poland,
Springfield & Youngstown Townships), & TRUMBULL (Hubbard &
Liberty Townships)

	Rates	Fringes
Electrician.....	\$ 27.05	10.86

 ELEC0071-001 07/05/2004
 ASHLAND, CHAMPAIGN, CLARK, COSHOCTON, CRAWFORD, DELAWARE,
 FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HIGHLAND, HOCKING,
 JACKSON (Coal, Jackson, Liberty, Milton, Washington & Wellston
 Townships), KNOX, LICKING, MADISON, MARION, MONROE, MORGAN,
 MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE (Beaver,
 Benton, Jackson, Mifflin, Pebble, Peepee, Perry & Seal
 Townships), RICHLAND, ROSS, TUSCARAWAS (Auburn, Bucks, Clay,
 Jefferson, Oxford, Perry, Salem, Rush, Washington & York
 Townships), UNION, VINTON (Clinton, Eagle, Elk, Harrison,
 Jackson, Richland & Swan Townships) & WASHINGTON

	Rates	Fringes
Line Construction		
Equipment Operators.....	\$ 23.85	8.67
Groundmen.....	\$ 17.23	7.44
Linemen; Cable Splicers.....	\$ 26.50	9.16

 ELEC0071-004 01/01/2001
 AUGLAIZE, CLINTON, DARKE, GREENE, LOGAN, MERCER, MIAMI,
 MONTGOMERY, PREBLE & SHELBY

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 21.69	6.21
Groundman.....	\$ 15.67	5.10
Lineman.....	\$ 24.10	6.66

 ELEC0071-005 05/31/2004
 ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN

	Rates	Fringes
Line Construction		
Cable Splicer; Lineman.....	\$ 33.60	9.19
Equipment Operator.....	\$ 30.24	8.50
Groundman.....	\$ 23.52	7.12

 ELEC0071-008 01/01/2001
 COLUMBIANA, MAHONING & TRUMBULL

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 21.69	6.21
Groundman.....	\$ 15.67	5.10
Lineman.....	\$ 24.10	6.66

 ELEC0071-010 01/01/2001
 BELMONT, CARROLL, HARRISON, HOLMES, JEFFERSON, MEDINA, PORTAGE,
 STARK, SUMMIT & WAYNE

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 21.69	6.21
Groundman.....	\$ 15.67	5.10
Lineman.....	\$ 24.10	6.66

 ELEC0071-013 01/01/2001
 BROWN, BUTLER, CLERMONT, HAMILTON & WARREN

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 21.69	6.21
Groundman.....	\$ 15.67	5.10
Lineman.....	\$ 24.10	6.66

 ELEC0082-002 05/31/2004
 CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN
 (Wayne, Clear Creek & Franklin Townships)

	Rates	Fringes
Electrician.....	\$ 26.69	9.70

 ELEC0082-006 05/24/2004
 CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN
 (Wayne, Clear Creek & Franklin Townships)

	Rates	Fringes
Sound & Communication Technician		
Cable Puller.....	\$ 9.14	4.91
Installer/Technician.....	\$ 18.28	6.32

 ELEC0129-003 03/01/2001
 LORAIN (Except Columbia Township) & MEDINA (Litchfield &
 Liverpool Townships)

	Rates	Fringes
Electrician.....	\$ 27.25	6.85

 ELEC0129-004 09/01/2001
 ERIE & HURON (Lyme, Ridgefield, Norwalk, Townsend, Wakeman,
 Sherman, Peru, Bronson, Hartland, Clarksfield, Norwich,
 Greenfield, Fairfield, Fitchville & New London Townships)

	Rates	Fringes
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Electrician.....\$ 27.25 6.85

 ELEC0141-003 06/01/2002

BELMONT

	Rates	Fringes
Cable splicer.....	\$ 24.83	10.70
Electrician.....	\$ 24.58	10.70

 ELEC0212-003 11/01/2000

BROWN, CLERMONT & HAMILTON

	Rates	Fringes
Sound & Communication Technician		
Cable Puller.....	\$ 9.00	2.64
Installer.....	\$ 18.00	3.475

 ELEC0212-005 06/02/2003

BROWN, CLERMONT & HAMILTON

	Rates	Fringes
Electrician.....	\$ 24.24	8.39

 ELEC0245-003 07/01/2004

DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING,
 PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
Line Construction		
Cable Splicer.....	\$ 32.68	19.5%+4.35+a
Groundman/Truck Driver.....	\$ 17.00	19.5%+4.35+a
Heli-arc Welding.....	\$ 28.72	19.5%+4.35+a
Lineman.....	\$ 28.42	19.5%+4.35+a
Operator - Class 1.....	\$ 22.74	19.5%+4.35+a
Operator - Class 2.....	\$ 19.89	19.5%+4.35+a
Technician.....	\$ 27.57	19.5%+4.35+a

FOOTNOTE: a. 6 Paid Holidays: New Year's Day; Memorial Day;
 Independence Day; Labor Day; Thanksgiving Day; & Christmas
 Day providing the employee has been on the payroll 25
 calendar days prior to the holiday, and works the scheduled
 workdays preceding & following such holiday (except excused
 absences)

 ELEC0246-006 11/03/2003

CARROLL (South of Fox, Harrison, Rose & Washington Townships),
 COLUMBIANA (South of Butler, Fairfield, Knox, Salem & Unity
 Townships), HARRISON & JEFFERSON

	Rates	Fringes
Electrician.....	\$ 26.95	15.21+a

FOOTNOTE: a. 1 1/2 Paid Holidays: The last scheduled workday prior to Christmas & 4 hours on Good Friday

 ELEC0306-005 05/31/2004
 MEDINA (Brunswick, Chatham, Granger, Guilford, Harrisville, Hinckley, Homer, Lafayette, Medina, Montville, Sharon, Spencer, Wadsworth, Westfield & York Townships), PORTAGE (Atwater, Aurora, Brimfield, Deerfield, Franklin, Mantua, Randolph, Ravenna, Rootstown, Shalersville, Streetsboro & Suffield Townships), SUMMIT & WAYNE (Baughman, Canaan, Chester, Chippewa, Congress, Green, Milton, & Wayne Townships)

	Rates	Fringes
Cable splicer.....	\$ 32.40	9.21
Electrician.....	\$ 30.00	9.10

 ELEC0317-002 05/30/2001
 GALLIA & LAWRENCE

	Rates	Fringes
Cable splicer.....	\$ 24.27	11.08
Electrician.....	\$ 23.11	11.04

 ELEC0317-008 06/01/1998
 ADAMS, ATHENS, GALLIA, JACKSON (Bloomfield, Franklin, Hamilton, Lick, Jefferson, Scioto & Madison Townships), LAWRENCE, MEIGS, PIKE (Camp Creek, Marion, Newton, Scioto, Sunfish & Union Townships), SCIOTO & VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships)

	Rates	Fringes
Line Construction		
Cable Splicers.....	\$ 23.66	8.48
Equipment Operators.....	\$ 17.14	8.25
Groundmen.....	\$ 13.92	8.14
Linemen.....	\$ 21.42	8.40

 ELEC0540-003 06/05/1997
 TUSCARAWAS COUNTY (North of Auburn, Clay, Rush & York Townships)

	Rates	Fringes
Line Construction		
Groundman; & Truck Driver...	\$ 14.65	8.18
Line Equipment Operator.....	\$ 19.02	8.69
Lineman; & Cable Splicer....	\$ 21.86	9.01

ELEC0540-005 06/01/2003

CARROLL (Northern half, including Fox, Harrison, Rose & Washington Townships), COLUMBIANA (Knox Township), HOLMES, MAHONING (Smith Township), STARK, TUSCARAWAS (North of Auburn, Clay, Rush & York Townships), & WAYNE (South of Baughman, Chester, Green & Wayne Townships)

	Rates	Fringes
Electrician.....	\$ 24.89	12.64

ELEC0573-003 05/31/2004

ASHTABULA (Colebrook, Wayne, Williamsfield, Orwell & Windsor Townships), GEAUGA (Auburn, Middlefield, Parkman & Troy Townships), MAHONING (Milton Township), PORTAGE (Charlestown, Edinburg, Freedom, Hiram, Nelson, Palmyra, Paris & Windham Townships) & TRUMBULL (Except Liberty & Hubbard Townships)

	Rates	Fringes
Electrician.....	\$ 28.04	10.80

ELEC0575-001 05/31/2004

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (Bloomfield, Franklin, Hamilton, Jefferson, Lick, Madison, Scioto, Coal, Jackson, Liberty, Milton & Washington Townships), PICKAWAY (Deer Creek, Perry, Pickaway, Salt Creek & Wayne Townships), PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, PeePee, Perry, Seal, Camp Creek, Newton, Scioto, Sunfish, Union & Marion Townships), ROSS, SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships)

	Rates	Fringes
Electrician.....	\$ 26.92	9.89

ELEC0648-001 02/24/2003

BUTLER & WARREN (Deerfield, Hamilton, Harlan, Massie, Salem, Turtle Creek, Union & Washington Townships)

	Rates	Fringes
Cable splicer.....	\$ 24.40	6.765
Electrician.....	\$ 23.90	6.75

ELEC0673-004 05/31/2004

ASHTABULA (Excluding Orwell, Colebrook, Williamsfield, Wayne & Windsor Townships), GEAUGA (Burton, Chardon, Claridon, Hambden, Huntsburg, Montville, Munson, Newbury & Thompson Townships) & LAKE

	Rates	Fringes
Cable splicer.....	\$ 27.55	12.69

Electrician.....\$ 27.30 12.69

 ELEC0683-002 12/29/2003
 CHAMPAIGN, CLARK, DELAWARE, FAIRFIELD, FRANKLIN, MADISON,
 PICKAWAY (Circleville, Darby, Harrison, Jackson, Madison,
 Monroe, Muhlenberg, Scioto, Walnut & Washington Townships) &
 UNION

	Rates	Fringes
Cable splicer.....	\$ 25.10	10.60
Electrician.....	\$ 24.50	10.59

 ELEC0688-003 06/30/2003
 ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley &
 Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard,
 Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown &
 Jefferson Townships), MARION, MORROW, RICHLAND & WYANDOT
 (Sycamore, Crane, Eden, Pitt, Antrim & Tymochtee Townships)

	Rates	Fringes
Electrician.....	\$ 24.95	10.75

 ELEC0867-001 06/01/1998
 ERIE

	Rates	Fringes
Line Construction		
Lineman; Cable Splicer; & Equipment Operator.....	\$ 20.75	4.09
Truck Driver (Winch)		
Groundman; & Groundman.....	\$ 13.49	3.87

 ELEC0972-002 06/01/2004
 ATHENS, MEIGS, MONROE, MORGAN, NOBLE, VINTON (Brown, Knox,
 Madison, Vinton & Wilkesville Townships) & WASHINGTON

	Rates	Fringes
Cable splicer.....	\$ 25.83	15.82
Electrician.....	\$ 25.58	15.82

 ELEC1105-001 06/04/2001
 COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller,
 Milford, Hilliar, Butler, Harrison, Pleasant & College
 Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn,
 York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry &
 Bucks Townships)

	Rates	Fringes
Electrician.....	\$ 22.12	6.56

 * ENGI0018-003 05/01/2004

ASHTABULA, CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN, MEDINA,
 PORTAGE & SUMMIT

	Rates	Fringes
Operating Engineer		
GROUP 1.....	\$ 27.38	8.60
GROUP 2.....	\$ 27.28	8.60
GROUP 3.....	\$ 26.24	8.60
GROUP 4.....	\$ 25.02	8.60
GROUP 5.....	\$ 19.73	8.60
MASTER MECHANIC.....	\$ 27.63	8.60

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Horizontal Directional Drill (over 500,000 ft. lbs. thrust); Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; & Wheel Excavator

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48"; Bulldozer; Endloader; Hydro Milling Machine; Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment

(includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24" wide & under); & Vermeer type Concrete Saw

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer; Bobcat-type and/or Skid Steer Loader with or without Attachments; **Highway** Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4" & over discharge); Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); & Welding Machines

GROUP 4 - Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (**Highway**); Crusher; Deckhand; Farm-type Tractor with attachments (**highway**) except Masonry); Finishing Machine; Fireperson, Floating Equipment (all types); Fork Lift (**highway**); Form Trencher; Hydro Hammer; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); & Vibratory Compactor with Integral Power

GROUP 5 - Compressor (Portable, Sewer, **Heavy & Highway**); Drum Fireperson (Asphalt); Generator; Masonry Fork Lift; Inboard-Outboard Motor Boat Launch; Masonry Fork Lift; Oil Heater (asphalt plant); Oiler; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4" discharge); Signalperson; Tire Repairperson; & VAC/ALLS

* ENGI0018-004 05/01/2004

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN,
 BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON,
 COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD,
 FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON,
 HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES,

HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN,
 LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE,
 MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING,
 PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS,
 SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN
 WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD &
 WYANDOT

	Rates	Fringes
Operating Engineer		
GROUP 1.....	\$ 25.89	8.60
GROUP 2.....	\$ 25.77	8.60
GROUP 3.....	\$ 24.73	8.60
GROUP 4.....	\$ 23.55	8.60
GROUP 5.....	\$ 18.09	8.60
MASTER MECHANIC.....	\$ 26.14	8.60

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Horizontal Directional Drill (over 500,000 ft. lbs. thrust); Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; & Wheel Excavator

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring

Machine More than 48"; Bulldozer; Endloader; Hydro Milling Machine; Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24" wide & under); & Vermeer type Concrete Saw

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer; Bobcat-type and/or Skid Steer Loader with or without Attachments; **Highway** Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4" & over discharge); Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); & Welding Machines

GROUP 4 - Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (**Highway**); Crusher; Deckhand; Farm-type Tractor with attachments (**highway**) except Masonry); Finishing Machine; Fireperson, Floating Equipment (all types); Fork Lift (**highway**); Form Trencher; Hydro Hammer; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); & Vibratory Compactor with Integral Power

GROUP 5 - Compressor (Portable, Sewer, **Heavy & Highway**); Drum Fireperson (Asphalt); Generator; Masonry Fork Lift; Inboard-Outboard Motor Boat Launch; Masonry Fork Lift; Oil Heater (asphalt plant); Oiler; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4" discharge); Signalperson; Tire Repairperson; & VAC/ALLS

* ENGI0066-023 06/01/2004

COLUMBIANA, MAHONING & TRUMBULL COUNTIES

Rates

Fringes

Operating Engineer

ASBESTOS REMOVAL PROJECTS		
GROUP 1.....	\$ 31.61	11.21
ASBESTOS REMOVAL PROJECTS		
GROUP 2.....	\$ 31.28	11.21
ASBESTOS REMOVAL PROJECTS		
GROUP 3.....	\$ 29.12	11.21
ASBESTOS REMOVAL PROJECTS		
GROUP 4.....	\$ 26.11	11.21
ASBESTOS REMOVAL PROJECTS		
GROUP 5.....	\$ 22.86	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 1 - A & B.....	\$ 31.61	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 1 - C & D.....	\$ 28.97	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 2 - A & B.....	\$ 31.28	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 2 - C & D.....	\$ 28.68	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 3 - A & B.....	\$ 29.12	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 3 - C & D.....	\$ 26.70	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 4 - A & B.....	\$ 26.11	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 4 - C & D.....	\$ 23.94	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 5 - A & B.....	\$ 22.86	11.21
HAZARDOUS/TOXIC WASTE		
PROJECTS		
GROUP 5 - C & D.....	\$ 20.95	11.21
ALL OTHER WORK		
GROUP 1.....	\$ 26.34	11.21
ALL OTHER WORK		

GROUP 2.....	\$ 26.07	11.21
ALL OTHER WORK		
GROUP 3.....	\$ 24.27	11.21
ALL OTHER WORK		
GROUP 4.....	\$ 21.76	11.21
ALL OTHER WORK		
GROUP 5.....	\$ 19.05	11.21

GROUP 1 - Rig, Pile Driver or Caisson Type; & Rig, Pile Hydraulic Unit Attached

GROUP 2 - Asphalt Heater Planer; Backfiller with Drag Attachment; Backhoe; Backhoe with Shear attached; Backhoe-Rear Pivotal Swing; Batch Plant-Central Mix Concrete; Batch Plant, Portable concrete; Berm Builder-Automatic; Boat Derrick; Boat-Tug; Boring Machine Attached to Tractor; Bullclam; Bulldozer; C.M.I. Road Builder & Similar Type; Cable Placer & Layer; Carrier-Straddle; Carryall-Scraper or Scoop; Chicago Boom; Compactor with Blade Attached; Concrete Saw (Vermeer or similar type); Concrete Spreader Finisher; Combination, Bidwell Machine; Crane; Crane-Electric Overhead; Crane-Rough Terrain; Crane-Side Boom; Crane-Truck; Crane-Tower; Derrick-Boom; Derrick-Car; Digger-Wheel (Not trencher or road widener); Double Nine; Drag Line; Dredge; Drill-Kenny or Similar Type; Easy Pour Median Barrier Machine (or similar type); Electromatic; Frankie Pile; Gradall; Grader; Gurry; Self-Propelled; **Heavy** Equipment Robotics Operator/Mechanic; Hoist-Monorail; Hoist-Stationary & Mobile Tractor; Hoist, 2 or 3 drum; Horizontal Directional Drill Operator; Jackall; Jumbo Machine; Kocal & Kuhlman; Land-Seagoing Vehicle; Loader, Elevating; Loader, Front End; Loader, Skid Steer; Locomotive; Mechanic/Welder; Metro Chip Harvester with Boom; Mucking Machine; Paver-Asphalt Finishing Machine; Paver-Road Concrete; Paver-Slip Form (C.M.I. or similar); Place Crete Machine with Boom; Post Driver (Carrier mounted); Power Driven Hydraulic Pump & Jack (When used in Slip Form or Lift Slab Construction); Pump Crete Machine; Regulator-Ballast; Hydraulic Power Unit not attached to Rig for Pile Drillings; Rigs-Drilling; Roto Mill or similar Full Lane (8' Wide & Over); Roto Mill or similar type (Under 8'); Shovel; Slip Form Curb Machine; Speedwing; Spikemaster; Stonecrusher; Tie Puller & Loader; Tie Tamper; Tractor-Double Boom; Tractor with Attachments; Truck-Boom; Truck-Tire; Trench Machine; Tunnel Machine (Mark 21 Java

or similar); & Whirley (or similar type)
 GROUP 3 - Asphalt Plant; Bending Machine (Pipeline or similar type); Boring machine, Motor Driven; Chip Harvester without Boom; Cleaning Machine, Pipeline Type; Coating Machine, Pipeline Type; Compactor; Concrete Belt Placer; Concrete Finisher; Concrete Planer or Asphalt; Concrete Spreader; Elevator; Fork Lift (Home building only); Fork Lift Walk Behind (Hoisting over 1 buck high); Form Line Machine; Grease Truck operator; Grout Pump; Gunnite Machine; Horizontal Directional Drill Locator; Single Drum Hoist with or without Tower; Huck Bolting Machine; Hydraulic Scaffold (Hoisting building materials); Paving Breaker (Self-propelled or Ridden); Pipe Dream; Pot Fireperson (Power Agitated); Refrigeration Plant; Road Widener; Roller; Sasgen Derrick; Seeding Machine; Soil Stabilizer (Pump type); Spray Cure Machine, Self-Propelled; Straw Blower Machine; Sub-Grader; Tube Finisher or Broom C.M.I. or similar type; & Tugger Hoist
 GROUP 4 - Air Curtain Destructor & Similar Type; Batch Plant-Job Related; Boiler Operator; Compressor; Conveyor; Curb Builder, self-propelled; Drill Wagon; Fork lift & Lulls; Generator Set; Generator-Steam; Heater-Portable Power; Hydraulic Manipulator Crane; Jack-Hydraulic Power driven; Jack-Hydraulic (Railroad); Ladavator; Minor Machine Operator; Mixer-Concrete; Mulching Machine; Pin Puller; Power Broom; Pulverizer; Pump; Road Finishing Machine (Pull Type); Saw-Concrete-Self-Propelled (**Highway** Work); Signal Person; Spray Cure Machine-Motor Powered; Stump Cutter; Tractor; Trencher Form; Water Blaster; Steam Jenny; Syphon; Vibrator-Gasoline; & Welding Machine
 GROUP 5 - Brakeperson; Fireperson; & Oiler

 IRON0017-002 08/01/2004

ASHTABULA (North of Route 6, starting at the Geauga County Line, proceeding east to State Route 45), CUYAHOGA, ERIE (Eastern 2/3), GEAUGA, HURON (East of a line drawn from the north border through Monroeville & Willard), LAKE, LORAIN, MEDINA (North of Old Rte. #224), PORTAGE (West of a line from Middlefield to Shalersville to Deerfield) & SUMMIT (North of Old Rte. #224, including city limits of Barberton)

	Rates	Fringes
Ironworker		
Ornamental; Reinforcing &		
Structural.....	\$ 26.65	14.78

 IRON0044-002 06/01/2003
 CLINTON (South of a line drawn from Blanchester to Lynchburg),
 HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of
 county inside lines drawn from Marshall to Lynchburg from the
 northern county line through E. Monroe to Marshall) & WARREN
 (South of a line drawn from Blanchester through Morrow to the
 west county line)

	Rates	Fringes
Ironworker		
Fence Erector.....	\$ 22.05	11.13
Ornamental; Structural.....	\$ 24.50	11.13

 IRON0055-003 07/01/2003
 CRAWFORD (Area Between lines drawn from where Hwy #598 & #30
 meet through N. Liberty to the northern border & from said Hwy
 junction point due west to the border), DEFIANCE (S. of a line
 drawn from where Rte. #66 meets the northern line through
 Independence to the eastern county border), ERIE (Western 1/3),
 FULTON, HANCOCK, HARDIN (North of a line drawn from Maysville
 to a point 4 miles south of the northern line on the eastern
 line), HENRY, HURON (West of a line drawn from the northern
 border through Monroeville & Willard), LUCAS, OTTAWA, PUTNAM
 (East of a line drawn from the northern border down through
 Miller City to where #696 meets the southern border), SANDUSKY,
 SENECA, WILLIAMS (East of a line drawn from Pioneer through
 Stryker to the southern border), WOOD & WYANDOT (North of Rte.
 #30)

	Rates	Fringes
Ironworker		
Fence Erector.....	\$ 18.43	13.34
Flat Road Mesh.....	\$ 19.43	13.34
Tunnels & Caissons Under		
Pressure.....	\$ 24.65	13.34
All Other Work.....	\$ 24.15	13.34

 IRON0147-002 10/01/2003
 ALLEN (Northern half), DEFIANCE (Northern part, excluding south
 of a line drawn from where Rte. #66 meets the northern line
 through Independence to the eastern county border), MERCER
 (Northern half), PAULDING, PUTNAM (Western part, excluding east
 of a line drawn from the northern border down through Miller
 City to where #696 meets the southern border), VAN WERT &
 WILLIAMS (Western part, excluding east of a line drawn from

Pioneer through Stryker to the southern border)

	Rates	Fringes
Ironworker.....	\$ 22.05	11.67

 IRON0172-002 10/01/2003
 CHAMPAIGN (Eastern one-third), CLARK (Eastern one-fourth),
 COSHOCTON (West of a line beginning at the northwestern county
 line going through Walhonding & Tunnel Hill to the southern
 county line), CRAWFORD (South of Rte. #30), DELAWARE,
 FAIRFIELD, FAYETTE, FRANKLIN, HARDIN (Excluding a line drawn
 from Roundhead to Maysville), HIGHLAND (Eastern one-fifth),
 HOCKING, JACKSON (Northern half), KNOX, LICKING, LOGAN (Eastern
 one-third), MADISON, MARION, MORROW, MUSKINGUM (West of a line
 starting at Adams Mill going to Adamsville & going from
 Adamsville through Blue Rock to the southern border), PERRY,
 PICKAWAY, PIKE (Northern half), ROSS, UNION, VINTON & WYANDOT
 (South of Rte. #30)

	Rates	Fringes
Ironworker.....	\$ 24.40	11.16

 IRON0207-004 06/01/2003
 ASHTABULA (Southern part starting at the Geauga County line),
 COLUMBIANA (E. of a line from Damascus to Highlandtown),
 MAHONING (N. of Old Route #224), PORTAGE (E. of a line from
 Middlefield to Shalersville to Deerfield) & TRUMBULL

	Rates	Fringes
Ironworker		
Fence Erector; & Pre-cast		
Bridge Culverts.....	\$ 17.28	12.90
Layout; Sheeter.....	\$ 25.40	12.90
Ornamental; Reinforcing;		
Structural.....	\$ 24.40	12.90

 IRON0290-002 06/01/2003
 ALLEN (Southern half), AUGLAIZE, BUTLER (North of a line drawn
 from east to the west county line going through Oxford,
 Darrtown & Woodsdale), CHAMPAIGN (Excluding east of a line
 drawn from Catawla to the point where #68 intersects the
 northern county line), CLARK (Western two-thirds), CLINTON
 (Excluding south of a line drawn from Blanchester to
 Lynchburg), DARKE, GREENE, HIGHLAND (Inside lines drawn from
 Marshall to Lynchburg & from the northern county line through
 East Monroe to Marshall), LOGAN (West of a line drawn from
 West Liberty to where the northern county line meets the

western county line of Hardin), MERCER (Southern half), MIAMI, MONTGOMERY, PREBLE, SHELBY & WARREN (Excluding south of a line drawn from Blanchester through Morrow to the western county line)

	Rates	Fringes
Ironworker		
Beyond 25 mile radius of		
L.U. #290 Office, Dayton....	\$ 24.28	11.00
Within 25 mile radius of		
L.U. #290 Office, Dayton....	\$ 24.13	11.00

 IRON0348-005 08/01/2003

ASHTABULA (Eastern part from Lake Erie on the north to route #322 on the south to include Conneaut, Kingsville, Sheffield, Denmark, Dorset, Cherry Valley, Wayne, Monroe, Pierpont, Richmond, Andover & Williamsfield Townships)

	Rates	Fringes
Ironworker		
Structural, excluding		
metal building erection &		
Reinforcing.....	\$ 22.17	13.35

 IRON0372-002 06/01/2002

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN(South of a line drawn from Blanchester through Morrow to the west county line)

	Rates	Fringes
Ironworker, Reinforcing		
Beyond 30-mile radius of		
Hamilton County Courthouse..	\$ 22.96	10.47
Up to & including 30-mile		
radius of Hamilton County		
Courthouse.....	\$ 22.71	10.47

 IRON0549-003 07/01/2003

BELMONT, GUERNSEY, HARRISON, JEFFERSON, MONROE & MUSKINGUM (Excluding portion west of a line starting at Adams Mill going to Adamsville and going from Adamsville through Blue Rock to the south border)

	Rates	Fringes
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Ironworker.....\$ 25.82 12.64

 IRON0550-004 05/01/2003
 ASHLAND, CARROLL, COLUMBIANA (W. of a line from Damascus to Highlandtown), COSHOCTON (E. of a line beginning at NW Co. line going through Walhonding & Tunnel Hill to the South Co. line), HOLMES, HURON (S. of Old Rte. #224), MAHONING (S. of Old Rte. #224), MEDINA (S. of Old Rte. #224), PORTAGE (S. of Old Rte. #224), RICHLAND, STARK, SUMMIT (S. of Old Rte. #224, Excluding city limits of Barberton), TUSCARAWAS, & WAYNE

	Rates	Fringes
Ironworkers:Structural, Ornamental and Reinforcing.....	\$ 20.76	12.92

 IRON0769-004 06/01/2003
 ADAMS (Eastern Half), GALLIA, JACKSON (Southern Half), LAWRENCE & SCIOTO

	Rates	Fringes
Ironworker		
ZONE 1.....	\$ 25.67	11.57
ZONE 2.....	\$ 26.07	11.57
ZONE 3.....	\$ 28.07	11.57
ZONE 1 - Up to 10 mile radius of Union Hall, Ashland, Ky., 1643 Greenup Ave.		
ZONE 2 - 10 to 50 mile radius of Union Hall, Ashland, Ky., 1643 Greenup Ave.		
ZONE 3 - 50 mile radius & over of Union Hall, Ashland, Ky., 1643 Greenup Ave.		

 IRON0787-003 06/01/2003
 ATHENS, MEIGS, MORGAN, NOBLE & WASHINGTON

	Rates	Fringes
Ironworker.....	\$ 25.26	11.25

 LABO0265-008 05/01/2004

	Rates	Fringes
Laborer		
ASHTABULA, ERIE, HURON, LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PORTAGE, SANDUSKY, STARK, SUMMIT, TRUMBULL & WOOD COUNTIES		
GROUP 1.....	\$ 22.90	5.15
GROUP 2.....	\$ 23.07	5.15

GROUP 3.....	\$ 23.40	5.15
GROUP 4.....	\$ 23.85	5.15
CUYAHOGA AND GEAUGA COUNTIES ONLY: SEWAGE PLANTS, WASTE PLANTS AND WATER TREATMENT FACILITIES CONSTRUCTION		
Laborers.....	\$ 25.51	5.15
CUYAHOGA, GEAUGA & LAKE COUNTIES		
GROUP 1.....	\$ 24.13	5.15
GROUP 2.....	\$ 24.30	5.15
GROUP 3.....	\$ 24.63	5.15
GROUP 4.....	\$ 25.08	5.15
REMAINING COUNTIES OF OHIO		
GROUP 1.....	\$ 22.47	5.15
GROUP 2.....	\$ 22.64	5.15
GROUP 3.....	\$ 22.97	5.15
GROUP 4.....	\$ 23.42	5.15

LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Laborer; Carpenter Tender; Concrete Curing Applicator; Dump Man (Batch Truck); Guardrail and Fence Installer; Joint Setter; Laborer (Construction); Landscape Laborer; Mesh Handlers & Placer; Right-of-way Laborer; Riprap Laborer & Grouter; Scaffold Erector; Seal Coating; Surface Treatment or Road Mix Laborer; Sign Installer; Slurry Seal; Utility Man; Bridge Man; Handyman; Waterproofing Laborer; Flagperson; Hazardous Waste (level D); Diver Tender; Zone Person & Traffic Control

GROUP 2 - Skid Steer; Asphalt Raker; Concrete Puddler; Kettle Man Pipeline); Machine Driven Tools (Gas, Electric, Air); Mason Tender; Brick Paver; Mortar Mixer; Power Buggy or Power Wheelbarrow; Sheeting & Shoring Man; Surface Grinder Man; Plastic Fusing Machine Operator; Pug Mill Operator; & Vacuum Devices (wet or dry); Rodding Machine Operator; Diver; Screwman or Paver; Screed Person; Water Blast, Hand Held Wand; Pumps 4" & Under (Gas, Air or Electric) & Hazardous Waste (level C); Air Track and Wagon Drill; Bottom Person; Cofferdam (below 25 ft. deep); Concrete Saw Person; Cutting with Burning Torch; Form Setter; Hand Spiker (Railroad); Pipelayer; Tunnel Laborer (without air) & Caisson; Underground Person (working in Sewer and Waterline, Cleaning, Repairing & Reconditioning); Sandblaster Nozzle Person; & Hazardous Waste (level B)

GROUP 3 - Blaster; Mucker; Powder Person; Top Lander; Wrencher (Mechanical Joints & Utility Pipeline); Yarner; Hazardous Waste (level A); Concrete Specialist; Concrete Crew in Tunnels (With Air-pressurized - \$1.00 premium); Curb Setter & Cutter; Grade Checker; Utility Pipeline Tapper; Waterline; and Caulker
 GROUP 4 - Miner (With Air-pressurized - \$1.00 premium); & Gunite Nozzle Person
 SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING.

 PAIN0006-002 05/01/2004

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. of the East-West Turnpike) & SUMMIT (N. of the East-West Turnpike)

	Rates	Fringes
Painter		
COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS		
GROUP 1.....	\$ 23.69	11.32
GROUP 2.....	\$ 23.99	11.32
GROUP 3.....	\$ 24.09	11.32
GROUP 4.....	\$ 24.39	11.32
GROUP 5.....	\$ 25.39	11.32
COMMERCIAL REPAINT		
GROUP 1.....	\$ 22.19	11.32
GROUP 2.....	\$ 22.49	11.32
GROUP 3.....	\$ 22.59	11.32
GROUP 4.....	\$ 22.89	11.32

PAINTER CLASSIFICATIONS - COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS

GROUP 1 - Brush; & Roller
 GROUP 2 - Swing Stage & Boatswain's Chair
 GROUP 3 - Sandblasting & Buffing; Closed Steel - Man Below 55 feet - Sprayer; Pick Puller, Blower, Sandblaster, & Buffer
 GROUP 4 - Spray Painting; Closed Steel - Man Above 55 feet; Open Structural Steel; Tanks - Water Towers; Bridge Painters; Bridge Riggers; Containment Builders

GROUP 5 - Bridge Blaster

PAINTER CLASSIFICATIONS - COMMERCIAL REPAINT

GROUP 1 - Brush; & Roller
 GROUP 2 - Swing Stage & Boatswain's Chair
 GROUP 3 - Sandblasting & Buffing; Closed Steel Below 55 feet - Sprayer-Pick-Puller-Blower-Sandblaster-Buffer
 GROUP 4 - Spray Painting

 PAIN0006-012 06/01/2003

ERIE, HANCOCK, HURON, OTTAWA (Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genoa), SANDUSKY, SENECA & WYANDOT

	Rates	Fringes
Painter		
Brush & Roller.....	\$ 21.07	6.38
Structural Steel.....	\$ 21.52	6.38

WINTER REPAINT: Between December 1 to March 31 - 90%JR

\$.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

While working swingstage, boatswain chair, needle beam and horizontal cable. While operating sprayguns, sandblasting, cobblasting and high pressure waterblasting (4000psi).

\$1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

For the application of catalized epoxy, including latex epoxy that is deemed hazardous, lead abatement, or for work or material where special precautions beyond normal work duties must be taken. For working on stacks, tanks, and towers over 40 feet in height.

 PAIN0006-014 07/01/2001

FULTON, HENRY, LUCAS, OTTAWA (Excluding Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genova) & WOOD

	Rates	Fringes
Painter		
NEW COMMERCIAL WORK		
GROUP 1.....	\$ 22.09	7.20
GROUP 2.....	\$ 22.34	7.20
GROUP 3.....	\$ 22.59	7.20
GROUP 4.....	\$ 22.84	7.20
GROUP 5.....	\$ 22.79	7.20
GROUP 6.....	\$ 23.09	7.20
GROUP 7.....	\$ 23.39	7.20

REPAINT IS 90% OF JR

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Spray & Sandblasting Pot Tender

GROUP 2 - Refinery; Refinery Tank; & Surfaces 30 ft. or over where material is applied to or labor performed on above ground level (exterior), floor level (interior)

GROUP 3 - Swing Stage & Chair

GROUP 4 - Application of Catalized Epoxies and Waterbased Epoxies of 2 or more component materials
 GROUP 5 - All Methods of Spray, Paint or Any Material applied with a Pressure Device
 GROUP 6 - Solvent Based Material; Sand and Abrasive Blasting
 GROUP 7 - Television & Radio Tower, Bridge, Horizontal Cable & Tank/Stack/Water Tank over 30 ft., including Scaffolding Brush

 PAIN0006-017 06/01/2001
 MEDINA, PORTAGE (Up to & including the **Ohio** Turnpike) & SUMMIT (Up to & including the **Ohio** Turnpike)

	Rates	Fringes
Painter		
GROUP 1.....	\$ 21.52	6.55
GROUP 2.....	\$ 22.17	6.55
GROUP 3.....	\$ 22.27	6.55
GROUP 4.....	\$ 22.37	6.55
GROUP 5.....	\$ 22.77	6.55

PAINTER CLASSIFICATIONS
 GROUP 1 - Brush; & Roller
 GROUP 2 - Epoxy Application
 GROUP 3 - Swing Scaffold, Bosum Chair & Window Jack
 GROUP 4 - Spray Gun Operator
 GROUP 5 - Follow-up Man Using Automatic Tools; Sandblast; Standpipes, etc. from Swinging Scaffolds; Bridge Work and/or Open Structural Steel; Standpipes & Water Towers; Synthetic Exterior Coatings; & Lead Abatement

 PAIN0006-021 04/01/2000
 ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER, PAULDING, PUTNAM, SHELBY, VAN WERT & WILLIAMS

	Rates	Fringes
Painter		
Brush; & Roller.....	\$ 18.55	5.30
Open Structural Steel; Heavy & Highway Construction; Bridges; & Guard Rails.....	\$ 19.40	5.30
Spray; Sandblasting; & Pressure Cleaning.....	\$ 19.30	5.30
Swing Stage, Chair, Safety Belts, Spiders & Cherry Pickers - \$.25 premium All surfaces 40 ft. or over where material is applied to or		

labor performed on, above ground level (exterior), floor
 level (interior) - \$.50 premium
 Applying Coal Tar Products - \$1.00 premium

 PAIN0012-008 06/11/2004
 BUTLER

	Rates	Fringes
Painter		
GROUP 1.....	\$ 16.92	8.29
GROUP 2.....	\$ 18.91	8.29
GROUP 3.....	\$ 19.41	8.29
GROUP 4.....	\$ 19.66	8.29
GROUP 5.....	\$ 19.91	8.29

PAINTER CLASSIFICATIONS

- GROUP 1: Bridge Equipment Tender; Bridge/Containment Builder
- GROUP 2: Brush & Roller
- GROUP 3: Spray
- GROUP 4: Sandblasting; & Waterblasting
- GROUP 5: Elevated Tanks; Steeplejack Work; Bridge; & Lead Abatement

 PAIN0012-010 06/11/2004
 BROWN, CLERMONT, CLINTON, HAMILTON & WARREN

	Rates	Fringes
Painter		
Elevated Tanks.....	\$ 22.30	5.10
HEAVY & HIGHWAY BRIDGES-		
GUARDRAILS-LIGHTPOLES-		
STRIPING		
Bridge Equipment Tender and Containment Builder....	\$ 18.96	5.90
Bridge/Equipment Tender and/or Containment Builder.\$	18.96	5.90
Bridges when highest point of clearance is 60 feet or more; & Lead Abatement Projects.....	\$ 22.30	5.90
Brush & Roller.....	\$ 21.30	5.90
Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement.....	\$ 22.30	5.90
Sandblasting & Hopper Tender; Water Blasting.....	\$ 22.05	5.90
Sandblasting & Water		

Blasting.....	\$ 22.05	5.90
Sandblasting, Hopper Tender, Waterblasting (Bridges when highest point of clearance is 60 feet or more.....	\$ 23.05	5.10
Spray.....	\$ 21.80	5.90

PAIN0012-014 11/01/2002
DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS
& UNION

	Rates	Fringes
Painter		
Bridges.....	\$ 32.00	6.02
Brush; Roller.....	\$ 22.52	6.02
Sandblasting; Steamcleaning; Waterblasting (3500 PSI or Over)& Hazardous Work.....	\$ 23.22	6.02
Spray.....	\$ 23.02	6.02
Stacks; Tanks; & Towers.....	\$ 26.03	6.02
Structural Steel & Swing Stage.....	\$ 22.82	6.02

PAIN0012-020 05/01/2004
CLARK, DARKE, GREENE, MIAMI, MONTGOMERY, & PREBLE

	Rates	Fringes
Painter		
GROUP 1 - Bridge/Equipment Tender and/Or Containment Builder.....	\$ 18.31	5.88
GROUP 2 - Brush & Roller....	\$ 20.94	5.88
GROUP 3 - Structural Steel; Swing & Scaffold; Bridge; Open Acid Tank; High Tension Electrical Equipment; & Hot Pipes.....	\$ 21.35	5.88
GROUP 4 - Sandblasting; Spray; & Steam Cleaning.....	\$ 21.69	5.88
GROUP 5 - Steeplejack work - Bridge, Water, Radio & T.V. Tower, Smoke Stack & Hazardous Work.....	\$ 21.89	5.88
GROUP 6 - Coal Tar.....	\$ 22.44	5.88

 PAIN0053-003 06/01/2004
 ATHENS, GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON

	Rates	Fringes
Painter		
Base Rate.....	\$ 23.44	6.87
Bridges, Locks & Dams; Power Generating Facilities.	\$ 25.51	6.87
High Tension Towers; Energized Substations.....	\$ 27.30	6.87
Spray & Blast.....	\$ 24.33	6.87

 PAIN0356-002 07/01/1999
 LICKING, MUSKINGUM & PERRY

	Rates	Fringes
Painter		
Bridges; Guard Rails, Light Poles; Blasters & Riggers.....	\$ 30.00	3.27
Brush; Roller; Hopper Tender; & Washing.....	\$ 16.00	3.27
Elevated Tanks 40 ft. or Over; Steeplejacks; Radio Towers; Stacks; Light Towers; Water Towers; Steeple; Skeleton Steel; Exterior Industrial Conveyors Over 25 Ft.;		
Sandblasting, Hopper Tender & Waterblasting Under Hazardous Conditions..	\$ 19.00	3.27
High Work.....	\$ 19.25	3.27
Sandblasting & Waterblasting	\$ 17.00	3.27
Spray & Steamcleaning.....	\$ 16.50	3.27
Tanks; Lead Abatement.....	\$ 18.00	3.27

 PAIN0406-002 06/01/1999
 ASHLAND, CRAWFORD, KNOX, MARION, MORROW & RICHLAND

	Rates	Fringes
Painter		
GROUP 1 - Pot Tender when tending 2 or more Sprayers or Blaster Metalizing Workers.....	\$ 18.55	2.00

GROUP 2 - Brush; Cleaner;
 Roller; & Washer.....\$ 19.00 2.00
 GROUP 3 - Structural
 Steel; Tanks; Towers;
 Hazardous Materials,
 including Epoxy and/or
 other materials; & Lead
 Abatement.....\$ 19.50 2.00
 GROUP 4 - Riggers on work
 more than 30 ft. above
 base level, includes base
 level & up; Spray; &
 Electrostatic Applications..\$ 19.75 2.00
 GROUP 5 - Blasting: Sand,
 Grit, Shot, Water;
 Metalizing Workers;
 Striping Roadways; & Guard
 Rails.....\$ 20.15 2.00
 SWING STAGE, WINDOW JACK, BOATSWAIN CHAIR, SPIDER, CHERRY
 PICKER AND OTHER TYPES OF LIFTS - \$.25 PREMIUM

 PAIN0438-002 06/01/2004
 BELMONT, HARRISON & JEFFERSON

	Rates	Fringes
Painter		
GROUP 1.....	\$ 24.25	8.05
GROUP 2.....	\$ 25.77	8.05
GROUP 3.....	\$ 28.12	8.05

PAINTER CLASSIFICATIONS
 GROUP 1 - Manufacturing Plants, Mining Facilities, Skeleton
 Steel Structures, Storage Tanks and Plant Work
 GROUP 2 - Bridges, Locks & Dams, Power Generating Facilities
 GROUP 3 - High Tension Towers, Energized Substations

 PAIN0476-001 06/19/2000
 COLUMBIANA, MAHONING & TRUMBULL

	Rates	Fringes
Painter		
GROUP 1.....	\$ 21.00	5.52
GROUP 2.....	\$ 21.20	5.52
GROUP 3.....	\$ 21.21	5.52
GROUP 4.....	\$ 21.50	5.52
GROUP 5.....	\$ 21.65	5.52
GROUP 6.....	\$ 21.90	5.52

GROUP 7.....\$ 22.08 5.52
 PAINTER CLASSIFICATIONS
 GROUP 1: Brush & Roller
 GROUP 2: Bridges
 GROUP 3: Structural Steel
 GROUP 4: Spraying, except Bar Joist
 GROUP 5: Epoxy, Mastic; Spraying Bar Joist; Deck
 GROUP 6: Tanks; Sandblasting
 GROUP 7: Towers; Stacks

 PAIN0555-002 11/01/2002
 ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO

	Rates	Fringes
Painter		
GROUP 1.....	\$ 21.95	8.22
GROUP 2.....	\$ 22.98	8.22
GROUP 3.....	\$ 23.98	8.22
GROUP 4.....	\$ 25.83	8.22

PAINTER CLASSIFICATIONS
 GROUP 1 - Containment Builder
 GROUP 2 - Brush; Roller; Power Tools, Under 40 feet
 GROUP 3 - Sand Blasting; Spray; Steam Cleaning; Pressure Washing; Epoxy & Two Component Materials; Lead Abatement; Hazardous Waste; Toxic Materials; Bulk & Storage Tanks of 25,000 Gallon Capacity or More; Elevated Tanks
 GROUP 4 - Stacks; Bridges

 PAIN0603-002 06/01/2004
 CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS & WAYNE

	Rates	Fringes
Painter		
Bridge; Tower, Pole & Stack; Sandblasting & Pressure Blasting; Structural Steel & Metalizing.....	\$ 19.11	8.74
Brush & Roller.....	\$ 18.10	8.74
Spray; Tank Interior & Exterior.....	\$ 18.93	8.74

 PAIN0639-001 05/01/2003

	Rates	Fringes
Sign Painter & Erector.....	\$ 17.57	4.55+a+b+c

FOOTNOTES: a. 7 Paid Holidays: New Year's Day; Memorial Day;

July 4th; Labor Day; Thanksgiving Day; Christmas Day & 1 Floating Day

b. Vacation Pay: After 1 year's service - 5 days' paid vacation; After 2, but less than 10 years' service - 10 days' paid vacation; After 10, but less than 20 years' service - 15 days' paid vacation; After 20 years' service - 20 days' paid vacation

c. Funeral leave up to 3 days maximum paid leave for death of mother, father, brother, sister, spouse, child, mother-in-law, father-in-law, grandparent and inlaw provided employee attends funeral

 PAIN0813-005 06/01/2004

GALLIA, LAWRENCE, MEIGS & VINTON

	Rates	Fringes
Painter		
BRIDGES		
GROUP 1.....	\$ 24.66	9.00
GROUP 2.....	\$ 24.80	9.00
ALL OTHER WORK		
GROUP 1.....	\$ 23.17	9.00
GROUP 2.....	\$ 24.66	9.00
GROUP 3.....	\$ 23.28	9.00

PAINTER CLASSIFICATIONS

BRIDGES:

GROUP 1 - Brush & Roller; Bridges & Rigging; Spray & Pump Operator

GROUP 2 - Sandblast & Pot Operator

ALL OTHER WORK:

GROUP 1 - Brush & Roller

GROUP 2 - Spray & Sandblast

GROUP 3 - Machine, Toolstand & Stilts

 PLUM0042-002 07/01/2004

ASHLAND, CRAWFORD, ERIE, HURON, KNOX, LORAIN, MORROW, RICHLAND & WYANDOT

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 25.00	12.40

 PLUM0050-002 06/28/2004

DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
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Plumber, Pipefitter,
 Steamfitter.....\$ 29.00 14.54

 PLUM0055-003 05/01/2004
 ASHTABULA, CUYAHOGA, GEAUGA, LAKE, MEDINA (N. of Rte. #18 &
 Smith Road) & SUMMIT (N. of Rte. #303, including the corporate
 limits of the city of Hudson)

	Rates	Fringes
Plumber.....	\$ 29.90	13.20

 PLUM0083-001 07/01/2004
 BELMONT & MONROE (North of Rte. #78)

	Rates	Fringes
Plumber and Steamfitter.....	\$ 20.69	17.95

 PLUM0094-002 05/01/2004
 CARROLL (N. half), STARK & WAYNE

	Rates	Fringes
Plumber/Pipefitter.....	\$ 24.00	11.97

 PLUM0120-002 06/01/2004
 ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN (the C.E.I. Power
 House in Avon Lake), MEDINA (N. of Rte. #18) & SUMMIT (N. of
 #303)

	Rates	Fringes
Pipefitter.....	\$ 30.47	12.62

 PLUM0162-002 06/01/2004
 CHAMPAIGN, CLARK, CLINTON, DARKE, FAYETTE, GREENE, MIAMI,
 MONTGOMERY & PREBLE

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 25.26	12.11

 PLUM0168-002 06/01/2003
 MEIGS, MONROE (South of Rte. #78), MORGAN (South of Rte. #78)
 & WASHINGTON

	Rates	Fringes
Plumber/Pipefitter.....	\$ 26.08	11.91

 PLUM0189-002 06/01/2004
 DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON,
 MARION, PERRY, PICKAWAY, ROSS & UNION

	Rates	Fringes
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Plumber, Pipefitter,
 Steamfitter.....\$ 27.26 12.03

 PLUM0219-002 06/01/2004
 MEDINA (Rte. #18 from eastern edge of Medina Co., west to eastern corporate limits of the city of Medina, & on the county road from the west corporate limits of Medina running due west to and through community of Risley to the western edge of Medina County - All territory south of this line), PORTAGE & SUMMIT (S. of Rte. #303)

	Rates	Fringes
Plumber and Steamfitter.....	\$ 27.06	13.31

 * PLUM0392-002 06/01/2004
 BROWN, BUTLER, CLERMONT, HAMILTON & WARREN

	Rates	Fringes
Plumber/Pipefitter.....	\$ 26.27	10.49

 PLUM0396-001 06/01/2004
 COLUMBIANA (Excluding Washington & Yellow Creek Townships & Liverpool Twp. - Secs. 35 & 36 - West of County Road #427), MAHONING & TRUMBULL

	Rates	Fringes
Plumber/Pipefitter.....	\$ 24.26	11.46

 PLUM0495-002 06/01/2004
 CARROLL (Rose, Monroe, Union, Lee, Orange, Perry & Loudon Townships), COLUMBIANA (Washington & Yellow Creek Townships & Liverpool Township, Secs. 35 & 36, West of County Rd. #427), COSHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (South to State Rte. #78 & from McConnelville west on State Rte. #37 to the Perry County line), MUSKINGUM, NOBLE & TUSCARAWAS

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 23.18	11.85

 PLUM0577-002 06/01/2004
 ADAMS, ATHENS, GALLIA, HIGHLAND, JACKSON, LAWRENCE, PIKE, SCIOTO & VINTON

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 23.03	13.14

 PLUM0776-002 07/01/2004

ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY & VAN WERT

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 26.74	10.80

 TEAM0377-003 05/01/2003
 STATEWIDE, EXCEPT CUYAHOGA, GEAUGA & LAKE

	Rates	Fringes
Truck Driver		
GROUP 1.....	\$ 19.69	7.47
GROUP 2.....	\$ 19.74	7.47
GROUP 3.....	\$ 19.79	7.47
GROUP 4.....	\$ 19.89	7.47
GROUP 5.....	\$ 20.16	7.47

TRUCK DRIVER CLASSIFICATIONS
 GROUP 1 - Asphalt Distributor; Batch; 4- Wheel Service;
 4-Wheel Dump; & Oil Distributor
 GROUP 2 - Tandem
 GROUP 3 - Tractor-Trailer Combination: Fuel; Pole Trailer;
 Ready Mix; Semi-Tractor; & Asphalt Oil Spraybar Man When
 Operated From Cab
 GROUP 4 - 5 Axles & Over
 GROUP 5 - Belly Dump; End Dump; Articulated Dump; **Heavy** Duty
 Equipment; Low Boy; & Truck Mechanic

 TEAM0436-001 05/01/2004

	Rates	Fringes
Truck Driver		
Pickup.....	\$ 22.35	7.40+a

FOOTNOTE: a. 7 Paid Holidays: New Year's Day; Decoration Day;
 Fourth of July; Labor Day; Thanksgiving Day; National
 Election Day; & Christmas Day

 WELDERS - Receive rate prescribed for craft performing
 operation to which welding is incidental.
 =====
 Unlisted classifications needed for work not included within
 the scope of the classifications listed may be added after
 award only as provided in the labor standards contract clauses
 (29CFR 5.5 (a) (1) (ii)).

 In the listing above, the "SU" designation means that rates
 listed under the identifier do not reflect collectively
 bargained wage and fringe benefit rates. Other designations

indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter

* a conformance (additional classification and rate) ruling
On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.

Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

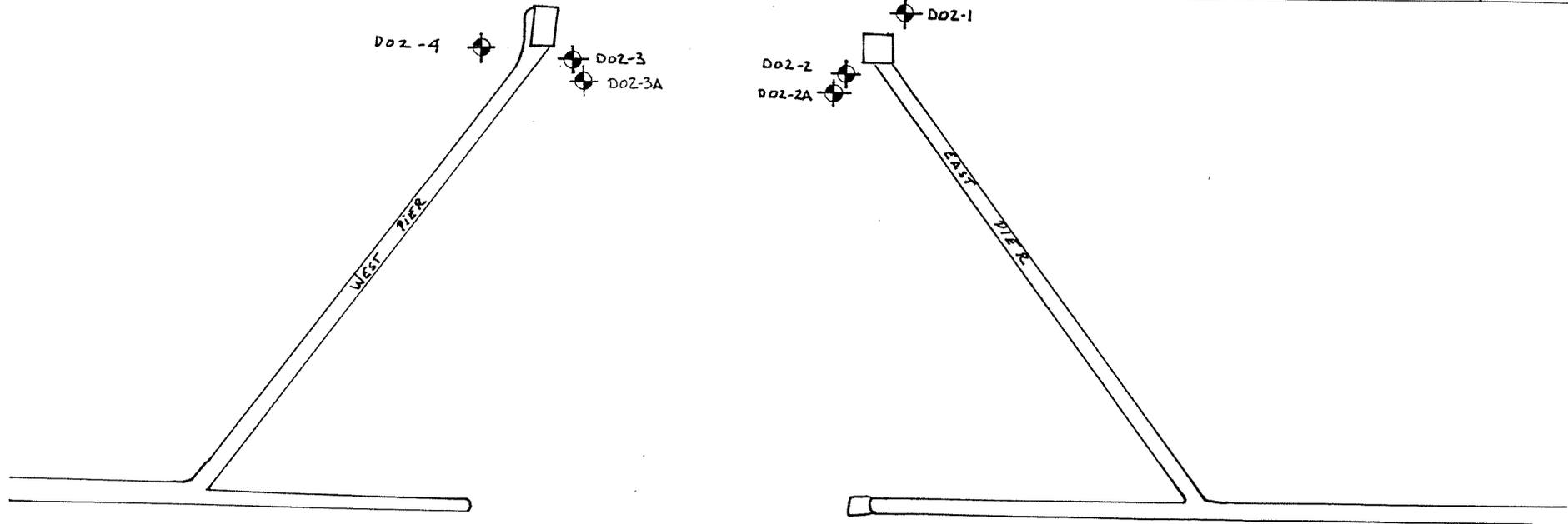
=====

END OF GENERAL DECISION



LAKE ERIE

TEST BORING LOCATION SUMMARY CLEVELAND EAST AND WEST PIERS		
BORING NUMBER	LAT/LONG FROM GPS	DIMENSIONS FROM PIER FACE
D02-1	N41 30.631' W081 42.932'	65' North of NE corner of East Pier
D02-2	N41 30.592' W081 42.992'	22' West of west face of East pier 10' South of south face
D02-2A		28' West of west face of East Pier 27' South of south face
D02-3	N41 30.544' W081 43.037'	35' East of east face of west pier 12' South of south face of west pier
D02-3A		30' South of southeast corner of west pier 40' East of east face
D02-4	N41 30.528' W081 43.076'	70' West of Southwest corner of west pier



CLEVELAND HARBOR

	SJB Services, Inc. SUBSURFACE INVESTIGATION PLAN	
	PROPOSED PIER REHABILITATION PROJECT CLEVELAND EAST & WEST PIER CLEVELAND, OHIO	
DR. BY: USACE	SCALE: NONE	PRCJ. NO.: BD-02-216
CK'D BY: FRM	DATE: 10/03	DRWG NO.: 1

SUBSURFACE LOG KEY

Project _____ Date Started _____
 Project# _____ Date Finished _____
 Location _____ Surf. Elev. _____
 Driller: _____ G.W. Depth _____



Hole # _____
 Sheet _____ of _____
**Contract
 Drilling
 and Testing**

DEPTH - FT.	SAMPLES	SAMPLE NO.	Blows on Sampler					BLOWS ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
			0	6	12	18	24			
5	1								TOPSOIL 3"	NOTE #1 G.W. at 10' on completion G.W. at 5' 24 hrs. after completion
	2								Brown CLAY, some silt, trace sand (Wet - Medium)	Run #1, 2.5' - 5.0' 90% Recovery 80% RQD
	3								Gray LIMESTONE, very hard, slightly weathered, some fractures.	

TABLE 1

	Split Spoon Sample
	Shelby Tube Sample
	Auger or Test Pit Sample
	Rock Core

TABLE 2

Identification of soil type is made on basis of an estimate of particle sizes, and in the case of fine grained soils also on the basis of plasticity.

Soil Type	Soil Particle Size	
Boulder	>12"	
Cobble	3" - 12"	
Gravel - Coarse	3" - 3/4"	Coarse Grained (Granular)
- Fine	3/4" - #4	
Sand - Coarse	#4 - #10	Fine Grained
- Medium	#10 - #40	
- Fine	#40 - #200	
Silt - Non Plastic (Granular)		
Clay-Plastic (Cohesive)	<#200	

TABLE 3

The following terms are used in classifying soils consisting of mixtures of 2 or more soil types. The estimate is based on weight of total sample.

Term	% of Total Sample
"and"	35-50
"some"	20-35
"little"	10-20
"trace"	less than 10

(When sampling gravelly soils with a standard split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter.)

TABLE 4

The relative compactness or consistency is described in accord with the following terms:

Granular Soils		Cohesive Soils	
Term	Blows per Foot, N	Term	Blows per Foot, N
Very Loose	0-4	Very Soft	0-2
Loose	4-10	Soft	2-4
Firm	10-30	Medium	4-8
Compact	30-50	Stiff	8-15
Very Compact	>50	Very Stiff	15-30
		Hard	>30

(Large particles in the soils will often influence the blows per foot recorded during the Penetration Test)

TABLE 5

Varved - Horizontal uniform layers or seams of soil(s).
 Layer - Soil deposit more than 6" thick.
 Seam - Soil deposit more than 6" thick.
 Parting - Soil deposit less than 1/8" thick.
 Laminated - Irregular, horizontal and angled seams and partings of soil(s).

TABLE 6

Rock Classification Terms	Meaning	Rock Classification Terms	Meaning
Hardness	Soft	Bedding	Laminated (<1')
	Medium Hard		Thin Bedded (1"-4')
	Hard		Bedded (4"-12')
	Very Hard		Thick Bedded (12" - 36')
Weathering	Very Weathered	Massive (>36')	
	Weathered, Sound	Fracturing - natural breaks in the rock oriented at an angle to the rock layers	

GENERAL INFORMATION & KEY TO SUBSURFACE LOGS

The Subsurface Logs attached to this report present the observations and mechanical data collected by the driller at the site, supplemented by classification of the material removed from the borings as determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total borings or between the sampled intervals. The data presented on the Subsurface Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the project. The evaluation must consider all the recorded details and their significance relative to each other. Often analyses of standard boring data indicate the need for additional testing or sampling procedures to more accurately evaluate the subsurface conditions. Any evaluation of the contents of this report and recovered samples must be performed by Professionals. The information presented in the following defines some of the procedures and terms used on the Subsurface Logs to describe the conditions encountered.

1. The figures in the Depth column defines the scale of the Subsurface Log.
2. The sample column shows, graphically, the depth range from which a sample was recovered. See Table 1 for a description of the symbols used to signify the various types of samples.
3. The Sample No. is used for identification on sample containers and/or Laboratory Test Reports.
4. Blows on Sampler—shows the results of the "Penetration Test", recording the number of blows required to drive a split spoon sampler into the soil. The number of blows required for each six inches of penetration is recorded. The first 6 inches of penetration is considered to be a seating drive. The number of blows required for the second and third 6 inches of penetration is termed the penetration resistance, N. The outside diameter of the sampler, the hammer weight and the length of drop are noted at the bottom of the Subsurface Log.
5. Blows on Casing—shows the number of blows required to advance the casing a distance of 12 inches. The casing size, the hammer weight and the length of drop are noted at the bottom of the Subsurface Log. If the casing is advanced by means other than driving, the method of advancement will be indicated in the Notes column or under the Method of Investigation at the bottom of the Subsurface Log.
6. All recovered soil samples are reviewed in the laboratory by an engineering technician, geologist or geotechnical engineer, unless noted otherwise. The visual descriptions are made on the basis of a combination of the driller's field descriptions and observations and the sample as received in the laboratory. The method of visual classification is based primarily on the Unified Soil Classification (ASTM D 2487-83) with regard to the particle size and plasticity (See Table No. 2) Additionally, the relative portion, by weight, of two or more soil types is described for granular soils in accordance with "Suggested Methods of Test for Identification of Soils" by D. M. Burmister, ASTM Special Technical Publication 479, June 1970. (See Table No. 3) The description of the relative soil density or consistency is based upon the penetration records as defined on Table No. 4. The description of the soil moisture is based upon the relative wetness of the soil as recovered and is described as dry, moist, wet and saturated. Water introduced in the boring either naturally or during drilling may have affected the moisture condition of the recovered sample. Special terms are used as required to describe materials in greater detail several such terms are listed in Table 5. When sampling gravelly soils with a standard two inch diameter split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders and large gravel is sometimes, but not necessarily, detected by an evaluation of the casing and samplers blows or through the "action" of the drill rig as reported by the driller.
7. The description of the rock shown is based on the recovered rock core and the driller's observations. The terms frequently used in the description are included in Table 6.
8. The stratification lines represent the approximate boundary between soil types and the transition may be gradual. Solid stratification lines are based on the driller's field observations.
9. Miscellaneous observations and procedures noted by the driller are shown in this column, including water level observations. It is important to realize the reliability of the water level observations depends upon the soil type (water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the boring may have influenced the observations. The ground water level typically will fluctuate seasonally. One or more perched or trapped water levels may exist in the ground seasonally. All the available readings should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or water observation wells.
10. The length of core run is defined as the length of penetration of the core barrel. Core recovery is the length of core recovered divided by the core run. The RQD (Rock Quality Designation) is the total pieces of NX core exceeding 4 inches in length divided by the core run. The size core barrel used is also noted.

DATE:
 STARTED 6/6/03
 FINISHED 6/6/03
 SHEET 1 OF 3

SJB SERVICES, INC.
SUBSURFACE LOG



HOLE NO. D02-1
 SURF. ELEV
 G.W. DEPTH See Notes

PROJECT: PIER REHABILITATION PROJECT - USACE LOCATION: CLEVELAND PIER HEAD
 PROJ. NO.: BD-02-216 CLEVELAND, OHIO

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N	REC (ft)		
5							BARGE	Drilling start time 0630
10								Boring located approximately 65' N of NE corner of east pier
15								N41 30.631' W081 42.932'
20								q (u) obtained using Forney CL-700 penetrometer results expressed in tons per square foot (tsf)
25								
30								
35								
40							Bottom of water at 36.5' below deck	

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW
 DRILLER: A. Jacubczak DRILL RIG TYPE: CME - 75 CLASSIFIED BY:
 Geologist
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE
 START 6/6/03
 FINISH 6/6/03
 SHEET 2 OF 3

SJB SERVICES, INC.
SUBSURFACE LOG



HOLE NO. D02-1
 SURF. ELEV. _____
 G.W. DEPTH See Notes

PROJECT: PIER REHABILITATION PROJECT - USACE LOCATION: CLEVELAND PIER HEAD
 PROJ. NO.: BD-02-216 CLEVELAND, OHIO

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N	REC (ft)		
45	1	1	1				Gray-Brown Silty CLAY, tr. sand (moist, soft, CL)	q (u) s-1 = 0.75 tsf
		2	4		3	1.2		
50	2	WOH/2.0					(very soft)	q (u) s-2 = <0.25 tsf WOH= Weight of Hammer and Rods
					WOH	2.0		
55	3	WOR/1.0					(wet)	q (u) s-3 = <0.25 tsf WOR= Weight of Rods
					WOH	1.3		
60	4	WOR/1.0						q (u) s-4 = <0.25 tsf
					WOH	2.0		
65	5	WOH/2.0						q (u) s-5 = <0.25 tsf
					WOH	2.0		
70	6	WOH/1.0					(soft)	q (u) s-6 = 1.0 tsf
		2	5		2	2.0		
75	7	1	4				Brown-Gray Clayey SILT, tr. sand (moist, stiff, ML)	q (u) s-7 = 2.5 tsf
		6	8		10	2.0		
80	8	2	3					q (u) s-8 = 2.0 tsf
		5	8		8	1.6		

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW
 DRILLER: A. Jacubczak DRILL RIG TYPE: CME - 75 CLASSIFIED BY: _____
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS Geologist _____

DATE
 START 6/6/03
 FINISH 6/6/03
 SHEET 3 OF 3

SJB SERVICES, INC.
SUBSURFACE LOG



HOLE NO. D02-1
 SURF. ELEV
 G.W. DEPTH See Notes

PROJECT: PIER REHABILITATION PROJECT - USACE LOCATION: CLEVELAND PIER HEAD
 PROJ. NO.: BD-02-216 CLEVELAND, OHIO

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER				REC (ft)	SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N			
85	9	1	4		11	1.3	q (u) s-9 = 2.5 tsf	
		7	8					
90	10	2	4		11	1.6	Contains tr. - little f-c Sand q (u) s-10 = 2.0 tsf	
		7	10					
95	11	2	8		18	2.0	(very stiff) q (u) s-11 = 3.0 tsf	
		10	12					
100	12	2	8		26	1.6	q (u) s-12 = 3.0 tsf	
		18	26					
106	13	8	23				Green - Gray SHALE Rock (moist) Boring Complete with Sample Spoon Refusal at 101.7' (65.2' below bottom of water) End Drilling at 1000 pull augers Move rig at 1130	
		28	50/2					
110								
115								
120								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: _____
 DRILLER: A. Jacubczak DRILL RIG TYPE: CME - 75 Geologist _____
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE:
 STARTED 5/28/03
 FINISHED 5/28/03
 SHEET 1 OF 3

SJB SERVICES, INC.
SUBSURFACE LOG



HOLE NO. D02-2
 SURF. ELEV
 G.W. DEPTH See Notes

PROJECT: PIER REHABILITATION PROJECT - USACE LOCATION: CLEVELAND PIER HEAD
 PROJ. NO.: BD-02-216 CLEVELAND, OHIO

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N	REC (ft)		
5							BARGE	Start time 0900 move 3 times to find soft bottom 3rd attempt at 1013 hours
10								All measurements from deck of barge
15								Boring 22' W of W. face of E. Pier 10' S of S face of E. Pier
20								N41 30.592 W081 42.922'
25								
30								
35	1	2	5.0				Gray-Black BOULDER and Shell Fragments (wet)	Bottom of water at 34' below barge deck
		3	2		8	0.4		
	2	3	5					
		5	8		10	0.4		
	3	5	7					
40		8	4		15	0.7	Gray-Brown fine SAND, tr. silt (wet, SP)	

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW
 DRILLER: A. Jacubczak DRILL RIG TYPE: CME - 75 CLASSIFIED BY:
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS Geologist

DATE
 START 5/28/03
 FINISH 5/28/03
 SHEET 2 OF 3

SJB SERVICES, INC.
SUBSURFACE LOG



HOLE NO. D02-2
 SURF. ELEV. _____
 G.W. DEPTH See Notes

PROJECT: PIER REHABILITATION PROJECT - USACE LOCATION: CLEVELAND PIER HEAD
 PROJ. NO.: BD-02-216 CLEVELAND, OHIO

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N	REC (ft)		
45	4	4	3				Brown-Gray Silty CLAY, tr. sand (moist, medium, CL) (stiff)	q (u) = unconfined compressive strength using fourney CL700 penetrometer
		3	4		6	0.7		
	5	4	5					
50		3	3		8	1.5	(wet, soft)	q (u) s-4 = 1.0 tsf q (u) s-5 = 1.2 tsf WOH = Weight of Hammer and Rods
	6	WOH	1					
		2	1		3	2.0		
55	7	1	2				(medium)	q (u) s-6 = 0.4 tsf q (u) s-7 = < 0.25 tsf q (u) s-8 = < 0.25 tsf q (u) s-9 = < 0.25 tsf q (u) s-10 = < 0.25 tsf
		2	3		4	2.0		
	8	WOH/1.0						
60		2	2		2	1.1	(very soft)	q (u) s-11 = 1.25 tsf q (u) s-12 = 1.25 tsf q (u) s-13 = 1.25 tsf q (u) s-14 = 1.25 tsf q (u) s-15 = 1.25 tsf
	9	WOH/1.5						
			1		WOH	2.0		
65	10	1	2				(soft)	q (u) s-16 = 1.25 tsf q (u) s-17 = 1.25 tsf q (u) s-18 = 1.5 tsf q (u) s-19 = 1.5 tsf q (u) s-20 = 1.5 tsf q (u) s-21 = 1.75 tsf q (u) s-22 = 1.5 tsf
		3	4		5	2.0		
	11	WOR	WOH					
70		3	5		3	2.0	(very stiff)	Poor Recovery Sample #23
	12	5	7					
		9	12		16	2.0		
75	13	1	4				(stiff)	
		5	6		9	1.4		
	14	1	4					
80		5	5		9	2.0	(medium)	
	15	7	7					
		8	9		15	2.0		
85	16	WOR	3				(medium)	
		3	3		6	1.5		
	17	3	5					
90		5	8		10	1.8	(stiff)	
	18	WOR	1					
		3	6		4	1.5		
95	19	1	3				(medium)	
		4	7		7	1.5		
	20	4	6					
100		7	8		13	1.8	(stiff)	
	21	1	2.0					
		4	7		6	1.3		
105	22	7	8				(very stiff)	
		10	12		18	1.8		
	23	7	12					
110		13	13		25	0.2		

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW
 DRILLER: A. Jacubczak DRILL RIG TYPE: CME - 75 CLASSIFIED BY: _____
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS Geologist _____

DATE
 START 5/28/03
 FINISH 5/28/03
 SHEET 3 OF 3

SJB SERVICES, INC.
SUBSURFACE LOG



HOLE NO. D02-2
 SURF. ELEV
 G.W. DEPTH See Notes

PROJECT: PIER REHABILITATION PROJECT - USACE LOCATION: CLEVELAND PIER HEAD
 PROJ. NO.: BD-02-216 CLEVELAND, OHIO

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N	REC (ft)		
85	24	2	8				Brown-Gray Clayey SILT, little f-c Sand, tr. gravel (moist, very stiff, ML)	q (u) s-24 = 1.5 tsf q (u) s-25 = 2.2 tsf
		7	10		15	1.4		
85	25	11	12					q (u) s-26 = 2.0 tsf q (u) s-27 = 2.0 tsf
		15	20		27	2.0		
85	26	3	4				(stiff)	q (u) s-28 = 2.0 tsf
		9	12		13	1.5		
85	27	5	15				(very stiff)	
		11	12		26	1.5		
90	28	5	8					
		8	10					
95	29	3	8				Brown-Gray Silty CLAY, tr. sand, tr. gravel (moist, stiff, CL)	q (u) s-29 = 2.5 tsf
		11	18		19	1.5		
100	30	12	22				Green-Gray SHALE Rock (moist)	Drilling completed at 1700 hrs. Pull augers 1800 hrs. move off hole
		30	50					
106							Boring Complete at 102' (68' below bottom of water)	
110								
115								
120								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: _____
 DRILLER: A. Jacubczak DRILL RIG TYPE: CME - 75 Geologist _____
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE:
 STARTED 5/30/03
 FINISHED 5/30/03
 SHEET 1 OF 2

SJB SERVICES, INC.
SUBSURFACE LOG



HOLE NO. D02-2A
 SURF. ELEV
 G.W. DEPTH See Notes

PROJECT: PIER REHABILITATION PROJECT - USACE LOCATION: CLEVELAND PIER HEAD
 PROJ. NO.: BD-02-216 CLEVELAND, OHIO

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N	REC (ft)		
5							BARGE	Boring D02-2A advanced for the purpose of obtaining shelby tubes and vane shear test data - no split spoon samples obtained
10							WATER	start 0745 hrs.
15								Boring 27'S of s. face of E. pier 28'W of W. face of E. pier
20							OVERBURDEN SOIL	Refer to soil boring log D02-2 for details
25								
30								
35								
40								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW
 DRILLER: A. Jacubczak DRILL RIG TYPE: CME - 75 CLASSIFIED BY:
 Geologist
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE
 START 5/30/03
 FINISH 5/30/03
 SHEET 2 OF 2

SJB SERVICES, INC.
SUBSURFACE LOG



HOLE NO. D02-2A
 SURF. ELEV. _____
 G.W. DEPTH See Notes

PROJECT: PIER REHABILITATION PROJECT - USACE LOCATION: CLEVELAND PIER HEAD
 PROJ. NO.: BD-02-216 CLEVELAND, OHIO

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER					REC (ft)	SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N				
45								Attempted 3" undisturbed sample (shelby tube) from 50'-52' - pushed 0815 hrs. pulled 0820 hrs.	
								0.1' recovery tube discarded	
50	1							Attempted 3" undisturbed sample from 55'-57' pushed 0840 pulled 0850 1.0' recovery	
								vane shear test performed 57'-59'	
55	2								
								VANE SHEAR	
60									
65								Attempted 3" undisturbed sample from 70'-72' pushed 1030 hrs. pulled 1050 hrs. 1.4' recovery vane shear test performed 72.0' - 74.0'	
70	3								
								VANE SHEAR	
75								Boring Complete at 74.0' (40' below water)	
								End drilling at 1200 hrs.	
80									

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW
 DRILLER: A. Jacubczak DRILL RIG TYPE: CME - 75 CLASSIFIED BY: _____
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS Geologist _____

CONTRACTOR ACCIDENT PREVENTION PLAN (APP) CHECKLIST (EM 385-1-1, Appendix-A)

NOTE: 1. Contractor will complete Checklist and Submit with their APP.

NOTE: 2. LRB-SO will review Contractor APP and return to PM / COR.

NOTE: 3. Contractor APP's ARE NOT APPROVED by the USACE, only found as Acceptable or Non-Acceptable.

Safety Office Review Status: ACCEPTED BY-DATE: _____ NOT ACCEPTED BY/DATE: _____

Contractor Name:

Contract No:

Project Title & Location:	Included ?			Page(s)
	Yes	No	N/A	
ALL CHECKLIST ITEMS WILL BE COMPLETED!				
1. SIGNATURE SHEET. Title, signature, and phone number of the following:				
a. plan preparer (corporate safety staff person, QC);				
b. plan approval, e.g., owner, company president, regional vice president (HTRW activities require approval of a Certified Industrial Hygienist (or qualified Industrial Hygiene personnel for in-house USACE activities; a Certified Safety Professional (or qualified USACE safety personnel for in-house work) may approve the plan for operations involving UST removal where contaminants are known to be petroleum, oils, or lubricants);				
c. plan concurrence (provide concurrence of other applicable corporate and project personnel (contractor)), e.g., Chief of Operations, Corporate Chief of Safety, Corporate Industrial Hygienist, project manager or superintendent, project safety professional, project QC.				
2. BACKGROUND INFORMATION. List the following:				
a. contractor;				
b. contract number;				
c. project name;				
d. brief project description, description of work to be performed, and location (map);				
e. contractor accident experience (provide information such as EMR, OSHA 200 Forms, corporate safety trend analyses);				
f. listing of phases of work and hazardous activities requiring activity hazards analyses.				
3. STATEMENT OF SAFETY AND HEALTH POLICY. (In addition to the corporate policy statement, a copy of the corporate safety program may provide a significant portion of the information required by the accident prevention plan.)				
4. RESPONSIBILITIES AND LINES OF AUTHORITIES.				
a. Identification and accountability of personnel responsible for safety - at both corporate and project level (contracts specifically requiring safety or industrial hygiene personnel should include a copy of their resume - the District Safety and Occupational Health Office will review the qualifications for acceptance).				
b. Lines of authority				
5. SUBCONTRACTORS AND SUPPLIERS. Provide the following:				
a. identification of subcontractors and suppliers (if known);				
b. means for controlling and coordinating subcontractors and suppliers;				
c. safety responsibilities of subcontractors and suppliers.				
6. TRAINING.				
a. List subjects to be discussed with employees in safety indoctrination.				
b. List mandatory training and certifications which are applicable to this project (e. g., explosive actuated tools, confined space entry, crane operator, diver, vehicle operator, HAZWOPER training and certification, personal protective equipment) and any requirements for periodic retraining/recertification.				
c. Identify requirements for emergency response training.				

CONTRACTOR ACCIDENT PREVENTION PLAN (APP) CHECKLIST (EM 385-1-1, Appendix-A)

NOTE: 1. Contractor will complete Checklist and Submit with their APP.

NOTE: 2. LRB-SO will review Contractor APP and return to PM / COR.

NOTE: 3. Contractor APP's ARE NOT APPROVED by the USACE, only found as Acceptable or Non-Acceptable.

Safety Office Review Status: ACCEPTED BY-DATE: _____ NOT ACCEPTED BY/DATE: _____

Contractor Name:

Contract No:

Project Title & Location:	Included ?			Page(s)
	Yes	No	N/A	
d. Outline requirements (who attends, when given, who will conduct etc.) for supervisory and employee safety meetings.				
7. SAFETY AND HEALTH INSPECTIONS. Provide details on:				
a. who will conduct safety inspections (e.g., project manager, safety professional, QC, supervisors, employees, etc.), when inspections will be conducted, how the inspections will be recorded, deficiency tracking system, follow-up procedures, etc;				
b. any external inspections/certifications which may be required (e.g., Coast Guard).				
8. SAFETY AND HEALTH EXPECTATIONS, INCENTIVE PROGRAMS, AND COMPLIANCE.				
a. The company's written safety program goals, objectives, and accident experience goals for this contract should be provided.				
b. A brief description of the company's safety incentive programs (if any) should be provided.				
c. Policies and procedures regarding noncompliance with safety requirements (to include disciplinary actions for violation of safety requirements) should be identified.				
d. Provide written company procedures for holding managers and supervisors accountable for safety.				
9. ACCIDENT REPORTING. The contractor shall identify who shall complete the following, how, and when:				
a. exposure data (man-hours worked);				
b. accident investigations, reports and logs;				
c. immediate notification of major accidents.				
10. MEDICAL SUPPORT. Outline on-site medical support and off-site medical arrangements.				
11. PERSONAL PROTECTIVE EQUIPMENT. Outline procedures (who, when, how) for conducting hazard assessments and written certifications for use of personal protective equipment.				
12. PLANS (PROGRAMS, PROCEDURES) REQUIRED BY THE SAFETY MANUAL (as applicable).				
a. Hazard Communication (HAZCOM) Program (01.B.04);				
b. Emergency Response Plans that include:				
- procedures & test (01.E.01)				
- spill plans (01.E,06.A.02)				
- firefighting plan (01.E.01, 19.A.04)				
- posting of emergency telephone numbers (01.E.04)				
- wildfire prevention plan (09.K.01)				
- man overboard/abandon ship (19.A.04)				
c. layout plans (04.A.01);				
d. respiratory protection plan (05.E.01);				
e. health hazard control program (06.A.02);				
f. lead abatement plan (06.B.05 & specifications);				

CONTRACTOR ACCIDENT PREVENTION PLAN (APP) CHECKLIST (EM 385-1-1, Appendix-A)

NOTE: 1. Contractor will complete Checklist and Submit with their APP.

NOTE: 2. LRB-SO will review Contractor APP and return to PM / COR.

NOTE: 3. Contractor APP's ARE NOT APPROVED by the USACE, only found as Acceptable or Non-Acceptable.

Safety Office Review Status: ACCEPTED BY-DATE: _____ NOT ACCEPTED BY/DATE: _____

Contractor Name:

Contract No:

Project Title & Location:	Included ?			Page(s)
	Yes	No	N/A	
g. asbestos abatement plan (06.B.05 & specifications);				
h. abrasive blasting (06.H.01);				
i. confined space (06.I);				
j. hazardous energy control plan (12.A.07);				
k. critical lift procedures (16.C.17);				
l. contingency plan for severe weather (19.A.03);				
m. access and haul road plan (22.I.10);				
n. demolition plan (engineering and asbestos surveys) (23.A.01);				
o. emergency rescue (tunneling) (26.A.05);				
p. underground construction fire prevention and protection plan (26.D.01)				
q. compressed air plan (26.I.01)				
r. formwork and shoring erection and removal plans (27.B.02)				
s. lift slab plans (27.D.01)				
t. Site Health & Safety Plan(for HTRW work an SSHP must be submitted and shall contain all information required by the accident prevention plan - two documents are not required (28.B.01);				
u. blasting plan (29.A.01);				
v. diving plan (30.A.13);				
w. plan for prevention of alcohol and drug abuse (Defense Federal Acquisition Regulation Supplement Subpart 252.223-7004, Drug-Free Work Force);				
X. FALL PROTECTION PLAN & PROCEDURES (21.A-G.)				
13. The contractor shall provide information on how they will meet the requirements of major sections of EM 385-1-1 in the accident prevention plan. Particular attention shall be paid to excavations, scaffolding, medical and first aid requirements, sanitation, personal protective equipment, fire prevention, machinery and mechanized equipment, electrical safety, public safety requirements, and chemical, physical agent, and biological occupational exposure prevention requirements. Detailed site specific hazards and controls shall be provided in the activity hazard analysis for each phase of the operation.				

ENGINEER MANUAL EM 385-1-1 CAN BE ACCESSED AT
<http://www.lrb.usace.army.mil/contracting/SafetyManual/SafetyManual.html>

CONTRACTOR QUALITY CONTROL PLAN CHECKLIST

Contract No. _____

Checklist Item	Included ?			Found on Page(s)
	Yes	No	N/A	
1. A description of the quality control organization, including a chart showing lines of authority.				
2. Acknowledgment that the CQC staff shall implement the three phase control system for all aspects of the work specified.				
3. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function.				
a. CQC System Manager				
b. Alternate CQC System Manager				
c. Individual(s) responsible for certifying that all submittals are in compliance with the contract requirements.				
d. Individual(s) responsible for executing contract modifications.				
e. Individual(s) responsible for certifying payment requests.				
f. Others				
4. Documentation that the CQC System Manager and Alternate CQC System Manager have completed the course entitled "Construction Quality Management For Contractors".				
5. A copy of the letter to the CQC System Manager signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the CQC System Manager, including authority to stop work which is not in compliance with the contract.				
6. The CQC System Manager shall issue letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities. Copies of these letters shall also be furnished to the Government.				
7. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, offsite fabricators, suppliers, and purchasing agents.				
8. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test.				
9. Name and address of proposed laboratory facilities to be utilized.				
10. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation.				
11. Procedures for tracking construction deficiencies from identification through acceptable corrective action. These procedures shall establish verification that identified deficiencies have been corrected.				
12. Reporting procedures, including proposed reporting formats. At minimum, the QC Report presented in the contract specifications shall be utilized.				
13. Proposed subcontractors and the associated activity of work which the subcontractor will perform.				
14. A list of the definable features of work.				
15. Contract specific items				

Subject: Trip Report, Evaluation of the Cleveland Harbor Arrow Pier heads, Cleveland Harbor, Ohio

1. On 10 April 2002, Mike Mohr, Dave Bala, and Dustin Tellinghuisen visited Cleveland Harbor. With assistance from Dave Witmer, Derrick Banning, and Carl Monson of the district survey team, Mike Mohr was able to evaluate the condition of the arrowhead breakwaters and to video the existing condition of the breakwaters. Dave Bala and Dustin Tellinghuisen were dropped off on the pier heads for closer examination of these structures. The purpose for these examinations was to evaluate the stability of the pier heads, evaluate the current condition of the pier heads, and to investigate possible repair alternatives if necessary.
2. Description: The pier heads are located on the north end of what is commonly referred to as the arrowhead breakwaters. The pier heads were built around 1910 and were constructed using large stone filled timber cribs with massive concrete caps around the perimeter of the cribs. The perimeters of the piers are rectangular in shape. The remaining areas between the concrete cap perimeters were filled with the same stone material as was used to fill the cribs. The stone material was then capped with paving stones. The overall dimensions of the west pier head are 100 feet by 60 feet, and the dimensions of the east pier head are 60 feet by 60 feet. Each of the pier heads support a light structure owned by the United States Coast Guard. The foundations for these light structures were built directly on the pier heads. The construction of these foundations raised the pier head elevations approximately 6 feet. The central support for the foundations of the light structures was the paving stones and stone fill making up the middle of the original pier head. The light structure located on the west pier consists of a large tower and a small house. The light structure on the east pier head is a single tower similar to the one on the west pier. Solar panels are being used to power the structures on both piers. The panels used on the east pier are located on the light tower, but the panels for the west pier are located on the concrete surface in the south west corner of the pier head at the base of the light structure.
3. Evaluation of East Pier Head: The east pier head has been repaired on at least two occasions. One repair included driving a sheet pile wall along the west side of the pier and it wrapping around the north and south corners of the pier. This wall was damaged when a large lake going vessel collided with the pier. The damage caused by this collision was repaired in 1980. The current condition of the east pier head is poor. The concrete walking surface is severely deteriorated and slopes toward the center of the pier where the light structure is located. This slope is not intentional, as it is apparent that water was intended to drain off the side of the pier through holes cut into the sheet pile walls or through voids left at the base of the parapet walls. Water is able to escape from the center of the pier by seeping under the light structure into a designed void in the foundation out to the lake through a 4 inch iron pipe. Also apparent is that the light structure is out of plumb, which would indicate uneven movement in its foundation. Uneven movement in the foundation may have been caused by loss of fill or by settlement of the foundation material. The sheet pile walls along the north and west sides of the pier are not in good condition. The steel around the water line is pitted and corroded as is typical of a wall in that environment. The sheet pile also has been spliced in at least one location and the handling hole for the first sheet was never filled. In at least one location it appears that a cover plate has been welded over a portion of one of the sheet piles. Perhaps to cover a hole in the pile or to strengthen the pile after the damage done in the collision. The concrete parapet walls are severely deteriorated. Portions of the walls have broken away and fallen into the water. The handrails that were installed around the pier instead of parapet walls have broken away as well. The only remaining

handrails on the pier are located at the top of the access stairs and in the south west corner of the pier one section of hand rail remains. The access stairs are the one part of the pier that appears to be in good condition.

4. Evaluation of West Pier Head: The west pier head is also in poor condition. The access stairs are beginning to fall apart. The concrete walking surface is severely deteriorated and slopes toward the center of the pier. This slope is opposite to what was intended, as it is clear that the surface was designed to drain off the sides of the pier and through voids at the base of the parapet walls. Again, water is able to escape from the center of the pier through iron pipes that collect water in a designed void under the light structures, as is the case with the east pier head. The parapet walls are severely deteriorated and portions of these walls have broken off and fallen into the water. The overall condition of the concrete is poor, especially near the waterline. Poor freeze thaw resistance has led to spalling of the concrete foundation around the waterline, and to significant damage of the surface slab. Viewing the light structures on the west pier from the east pier did not reveal any obvious leaning of the light tower or of the house. The two structures on the west pier are connected together with a short walkway. No separation of this walkway from either of the structures was noticeable. Except for the slope of the walking surface slab there would not be any evidence of settlement of the fill material. This settlement must be fairly uniform not to show differential settlement between the two structures.
5. Recommendations: Taking into account the current conditions of the light structures on the pier heads the east pier head is the most in need of repair. The light structure on this pier is already out of plumb. The west pier is in need of repair as well. The access stairs are made from concrete and are failing. The coast guard does not need to access these structures often, but without the stairs access would be very treacherous. The breakwaters were investigated by Mike Mohr and are also in need of repairs and or reshaping.

The problem with the pier heads breaks down to two areas. The first would be to stabilize the foundations for the light structures, and provide safe access for coast guard personnel. The second area would be to stop the spalling of the concrete caps and lighthouse foundations to maintain the stability of the pier head itself. Some possible alternatives for repairing the east and west pier heads are sheet pile encasement, grout stabilization and resurfacing, additional stone protection, or any combination of these alternatives. Another possibility could include removal of the large light structures and replacement with smaller lights as are found on many of the Corps of Engineers navigation piers. Removal of the light structures would significantly reduce the scope of repairs, but this possibility would need to be discussed with the coast guard. There may also be some historical interest with the light structures that would eliminate this alternative.

6. Other Observations: Mr. Carl Monson brought to our attention a void in the west breakwater that will be noticeable in the video Mike Mohr made.

The survey team also collected subsurface information around the pier heads that will influence what repairs can be made.

7. Also attached at the end of this report are a number of pictures taken of the piers during the evaluation.



View of west pier head from east pier head



Damaged slab and base of light structure.



Access stairs.



East side of west pier head.



West side of west pier head notice slope of slab.



Solar panels powering light structures on west pier.



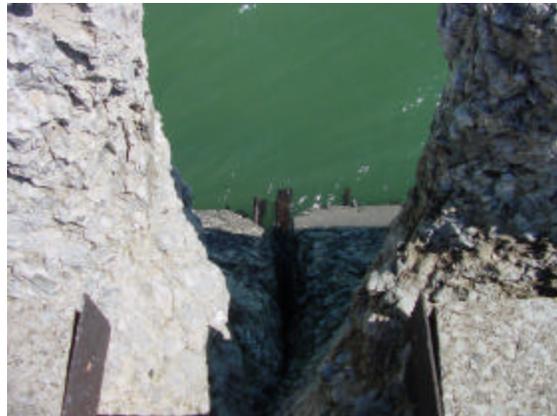
View of east pier head from west pier head.



Small portion of damaged slab and light structure.



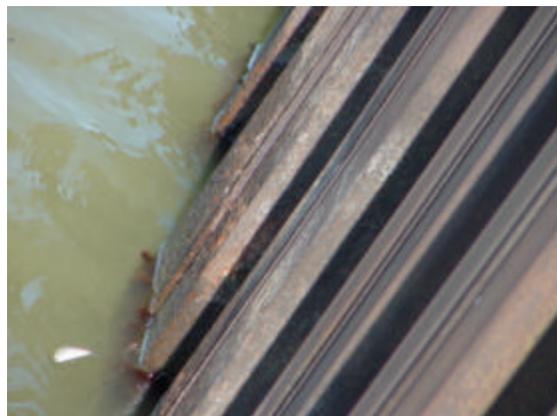
Damages slab and parapet.



Looking through damaged parapet at original cap.



Cover plate welded to sheet pile.



Corroded sheets at waterline.



**US Army Corps
of Engineers®**

Buffalo District

Cleveland East and West Pierheads Cleveland, Ohio

Cleveland East and West Pierhead Dive Inspection Report

January 2003

CLEVELAND EAST AND WEST PIERHEAD DIVE INSPECTION CLEVELAND, OH

INTRODUCTION

This technical memo was compiled at the request of the Project Manager and Structural Design Section. The purpose was to document the existing above and below water level condition of the Cleveland east and west pierheads. Potential structural instability has warranted an investigation of a rehabilitation project at this site.

LOCATION

Cleveland Harbor is located in the City of Cleveland, Cuyahoga County, Ohio on the southern shore of Lake Erie. The outer harbor area is enclosed by a breakwater system comprising an east breakwater 20,970 feet long, a west breakwater connected with the shore 6,048 feet long with a gap of 201 feet. These are located about 662 feet from the shore. The east and west arrowhead breakwaters are each 1,250 feet long. At the lakeward ends of the arrowhead breakwaters are lightblocks used to support the entrance pierheads (Figure 1).

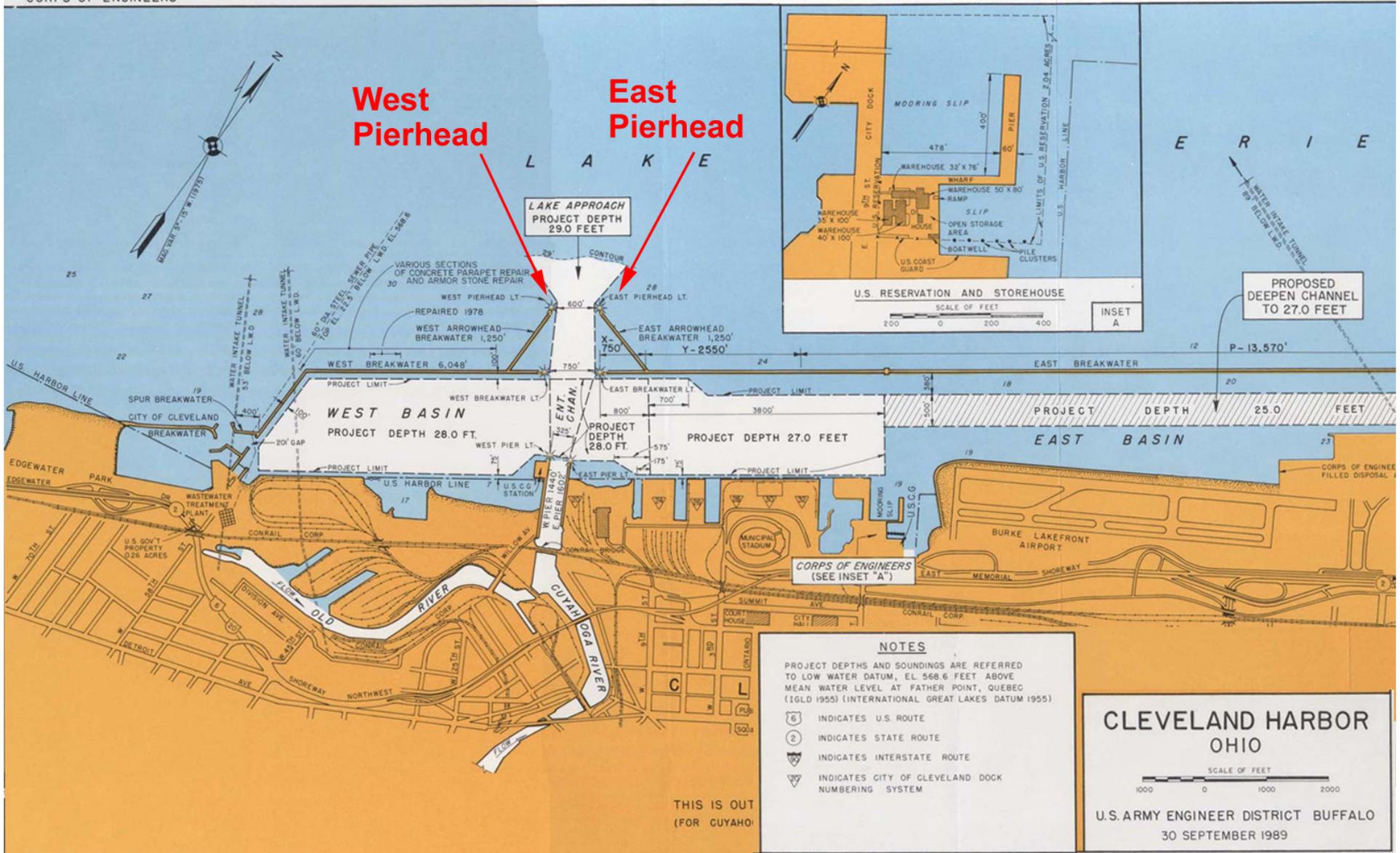


Figure 2.

DIVE INSPECTION

The Buffalo District Dive Team traveled to Cleveland, OH on 15 October 2002 to perform inspection dives on the Cleveland east and west pierheads to document the existing above and below water level condition of the structures. Members of the dive team performing the work were Shanon A. Chader (lead diver), Scott Schlueter (diver/supervisor), Ed Gawarecki (diver/supervisor), and Dennis Rimer (diver/boat operator/supervisor). The underwater inspection was performed using the Corps pontoon boat as a dive platform (Figure 3), SCUBA (Self-Contained Underwater Breathing Apparatus) gear, and an underwater video camera.

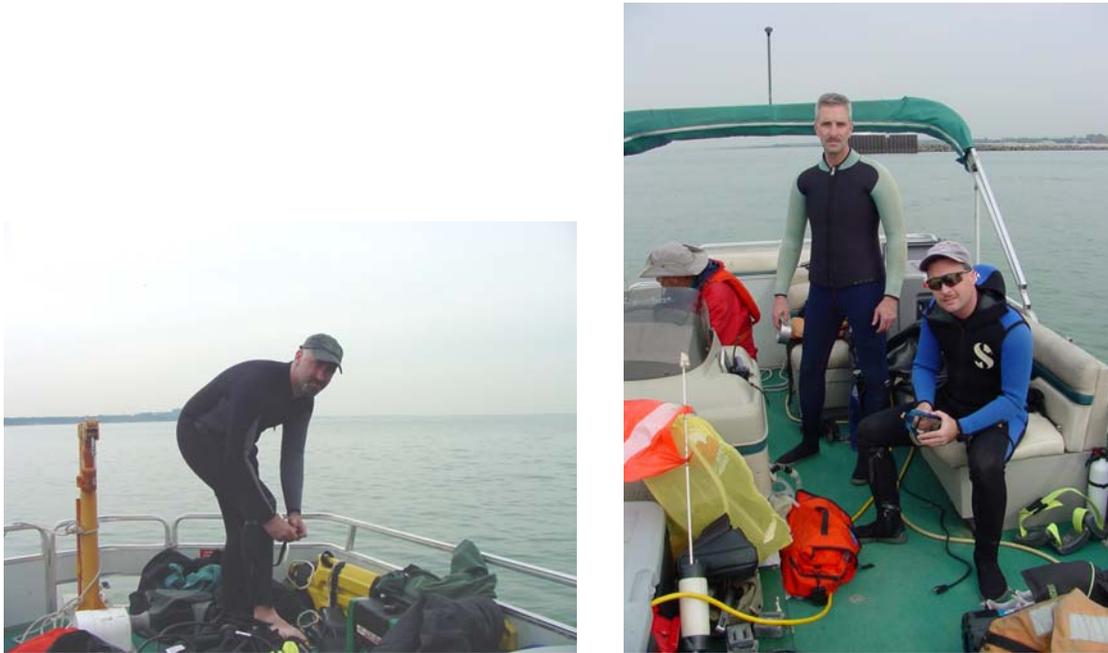


Figure 3. Preparing for dives at the Cleveland Pierheads.

Figure 4 illustrates the mass concrete construction of the east and west pierheads as built in 1905. The basic construction consists of a mass concrete cap structure overlying a stone filled timber crib. This drawing shows the elevation of the concrete and timber crib interface at Mean Lake Level ((MLL) 1905. The east pierhead was repaired and refaced after a ship collided with the east pier in early 1980. After the new concrete work was completed on the piers and the new sheetpile was placed at the east pier in 1980 the east and west pier elevation was approximately 586.0 ft IGLD 1955 (586.6 ft IGLD 1985).

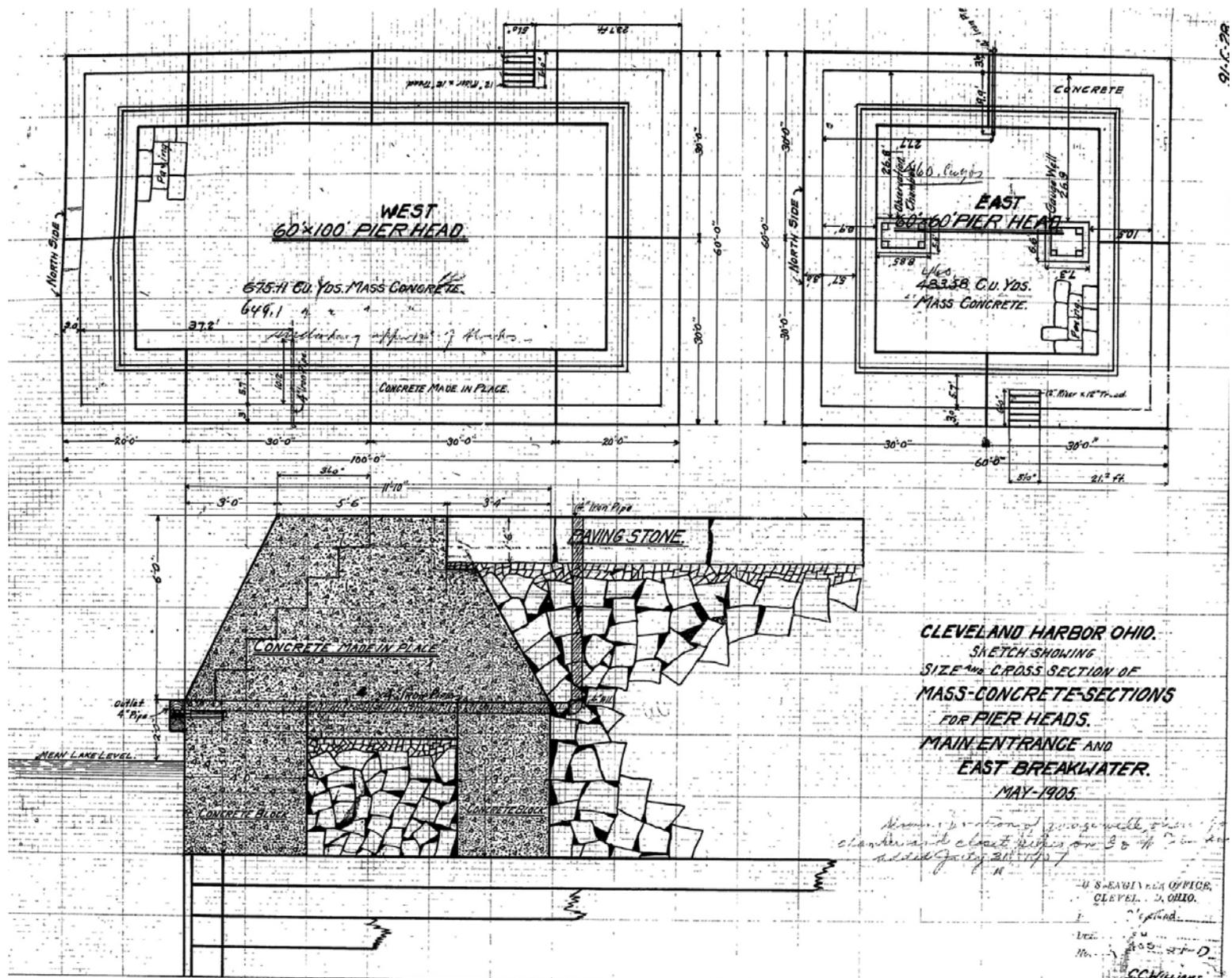


Figure 4. 1905 mass concrete construction of east and west pierheads.

WEST PIERHEAD

Site conditions at the west pierhead were as follows:

- Partly sunny
- Air temperature - 50 – 55 deg.
- Water temperature - 60 – 65 deg.
- Underwater visibility - 3 – 7 ft.
- Turbidity - Varied from low to high
- Bottom Composition - Soft silt, sand, armor stone
- Water depth - Varied between 20 and 30 ft.
- No water current
- Minor wave chop

Initially, a visual inspection was performed of the above water portion of the west pierhead lightblock structure from the Corps pontoon boat. Based on the visual inspection, several observations were made. Overall, the west pierhead lightblock is in poor condition above the water surface (Figures 5 - 6). The existing concrete surface has deteriorated significantly and the light structure is slightly out of plumb, indicating uneven foundation movement. The concrete parapet walls are severely deteriorated with portions missing.



Figure 5. Cleveland West Pierhead (looking at the NW corner).



Figure 6. Cleveland West Pierhead (looking at NE corner)– note concrete deterioration.

Prior to the dive inspection, a safety briefing was held to discuss potential hazards, and provide an overview of what should/might be encountered during the dive. The dive inspection of the west pierhead began at the southeast corner and progressed toward the northeast corner (Figure 6). An initial dive was performed to orient the divers and determine if any obstructions or other hazards existed. Once it was determined that the area was clear, the divers performed an overview dive of the lightblock structure that covered the entire perimeter at the structures base and several traverse sections up and down the structure (Dive #1 – approximately 15 minutes). The divers then surfaced to obtain the underwater video camera. After a surface interval, the divers submerged to video document the underwater condition of the lightblock structure (Dive #2). After approximately 20 minutes, the divers surfaced to convey information to the dive supervisor and to determine if adjustments were required in camera operations. After another surface interval, the divers submerged to complete the video documentation (Dive #3 – approximately 10 minutes).

The video allowed observers besides the divers to view the structures integrity. However, the video provided only a glimpse of the overall structure. This was due in part to the suspended sediments and poor lighting, which necessitated operation of the camera closer to the structure to obtain adequate results.



Figure 7. Divers begin at the southeast corner of the Cleveland West Pierhead.

Based on the divers visual and video inspection, several observations were made. The concrete block structure is in poor condition below the water surface. Concrete joints that are opening at the surface continue down to the concrete block/timber crib intersection shown in Figure 4. There is severe spalling and deterioration of the concrete (mostly at the joints), with several sections of steel rebar reinforcement either exposed or broken off. There is a heavy growth of zebra mussels that partially masks this problem below the surface. The timber crib structure is showing signs of deterioration. Metal and timber bracing has detached from the structure exposing the interior timber cribbing and in some areas the fill material. The timber is also illustrating signs of severe wear at the concrete/timber interface. Continued deterioration of the cribbing will result in further loss of fill and weakening of the structural stability of the pierhead.

There is a layer of large armor stone surrounding the west pierhead (approx. 3 – 5 ft diameter) that varies in elevation. This layer extends approximately 30 ft from the existing timber crib structure. Pieces of the concrete lightblock were also found.

EAST PIERHEAD

Site conditions at the east pierhead varied slightly due to the time of day and were as follows:

- Overcast
- Air temperature - 50 – 55 deg.
- Water temperature - 60 – 65 deg.
- Underwater visibility - 3 – 7 ft.
- Turbidity - Varied from low to high
- Bottom Composition - Soft silt, sand, armor stone
- Water depth - Varied between 20 and 35 ft.
- No water current
- Minor wave chop – 0 to 0.5 ft waves

Figures 8 – 10 illustrate the repairs performed on the east pierhead lightblock in the early 1980's.

Initially, a visual inspection was performed of the above water portion of the lightblock structure from the Corps pontoon boat. Based on the visual inspection, several observations were made. The east pierhead lightblock is in poor condition above the water surface. The concrete surface slopes toward the center (not away toward the edges) and the light structure is out of plumb, indicating uneven foundation movement. The concrete parapet walls are severely deteriorated with portions missing (Figures 11 - 17) with the remaining above water concrete in very poor condition. The sheet pile placed around the north and west side of the east pierhead is pitted and corroded around the waterline and tipping out of alignment along the west face.

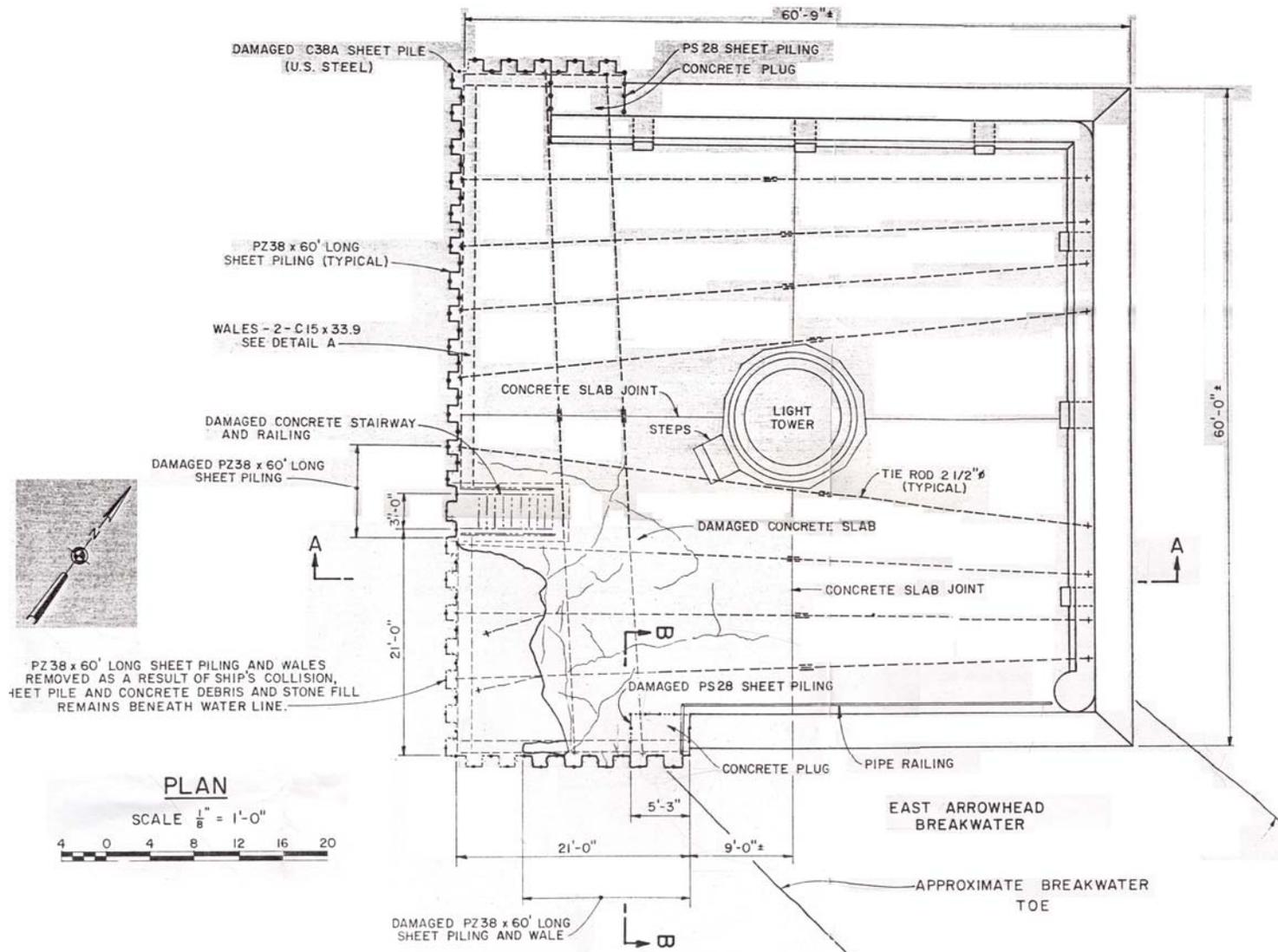


Figure 8. East pierhead damaged section from 1980 and the completed repairs

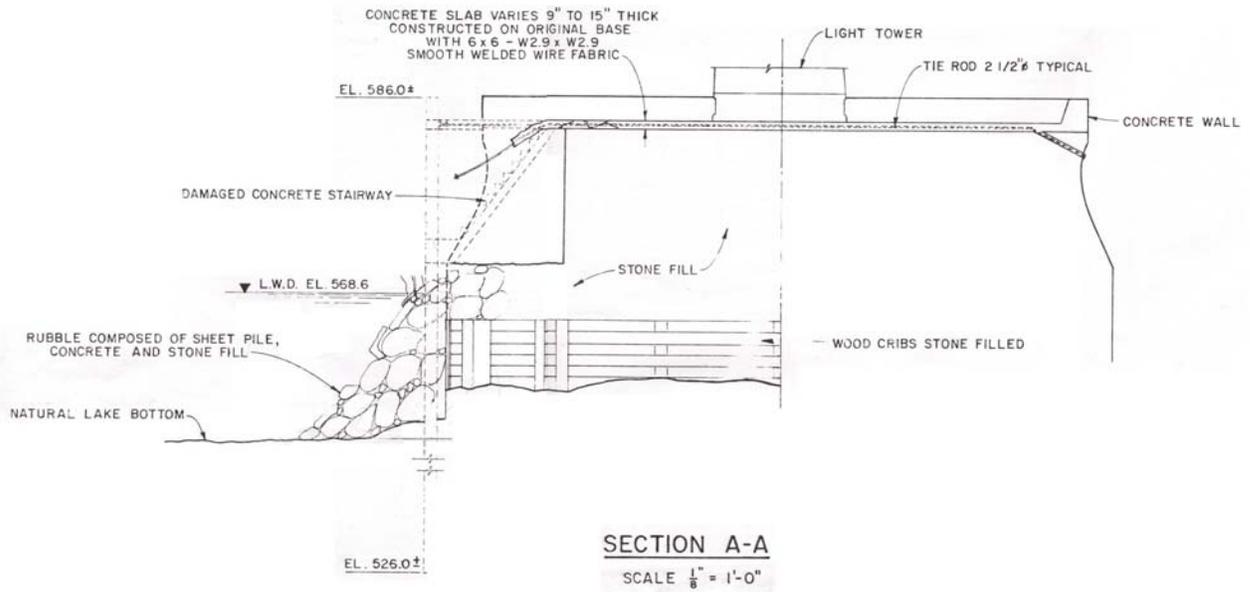


Figure 9. Completed repairs in 1980 at the east pierhead.

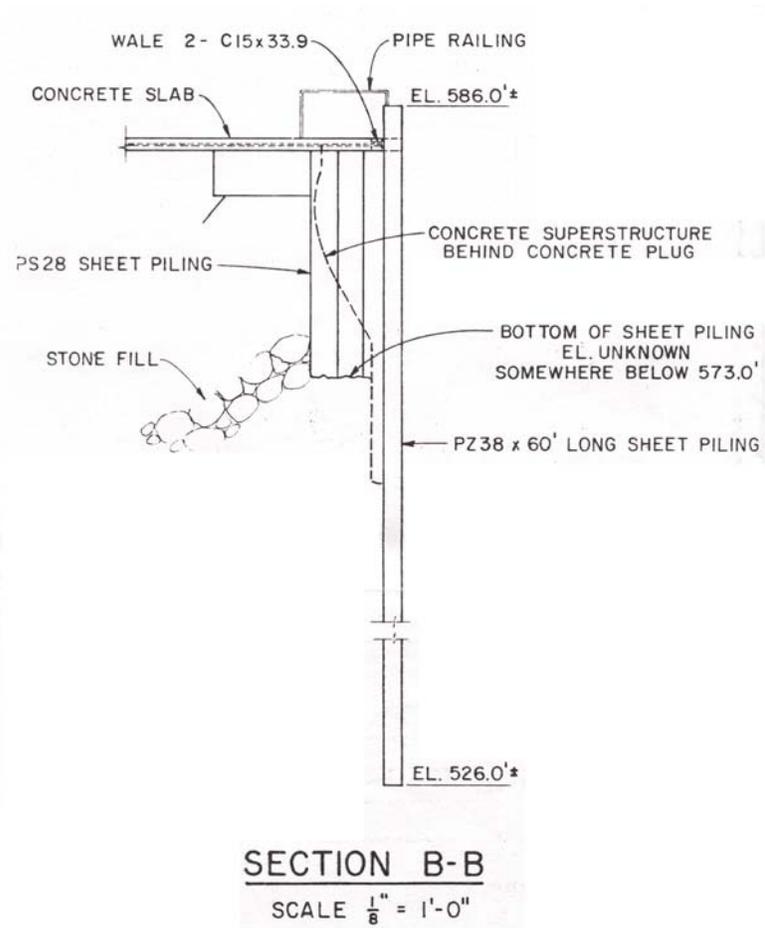


Figure 10. Completed repairs in 1980 at the east pierhead.



Figure 11. East Pierhead lightblock.



Figure 12. Looking Northeast at the Cleveland East Pierhead sheetpile wall.



Figure 13. Looking at the Southern portion of the East Pierhead sheetpile wall.



Figure 14. Looking at the Northwest corner of the East Pierhead sheet pile wall.



Figure 15. Looking at the northeast corner of the East Pierhead lightblock.

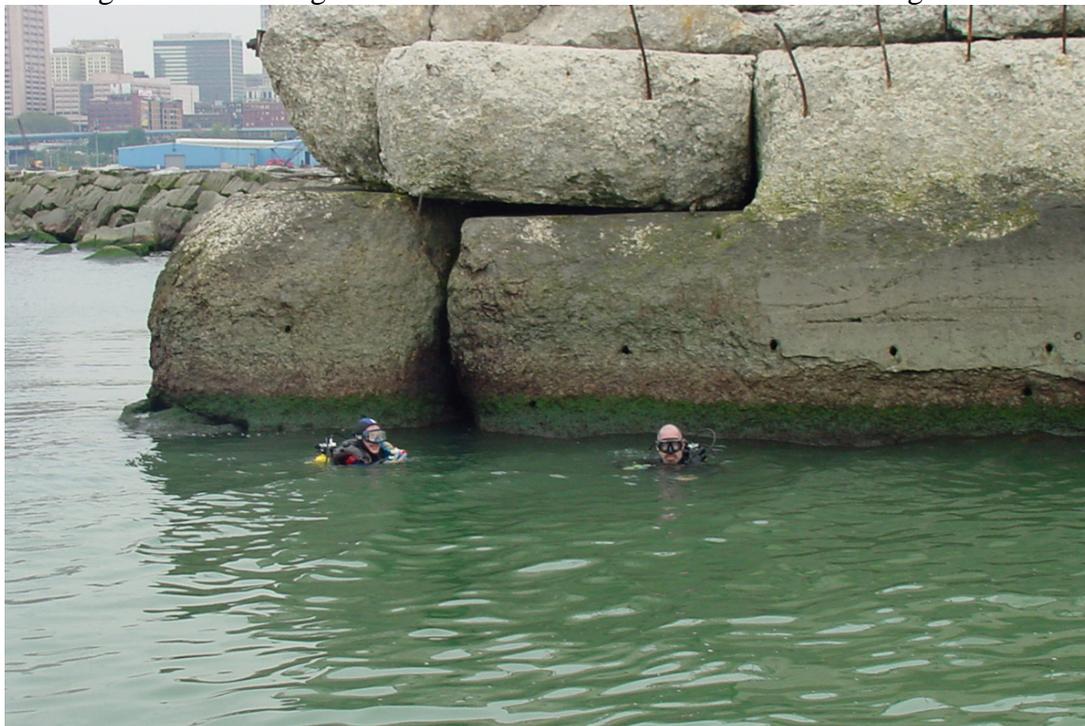


Figure 16. Divers surfacing at the northeast corner of the East Pierhead lightblock.



Figure 17. Note separation and deterioration of concrete at the East Pierhead lightblock.

Divers began the dive inspection at the southwest corner of the lightblock near the landward end of the sheet pile wall. An initial dive was performed of the complete perimeter to orient the divers and determine any potential obstructions or other hazards. Once it was determined that the area was clear and the divers performed an overview of the lightblock structure, the divers surfaced to obtain the underwater video camera. After a surface interval, the divers submerged to video document the underwater condition of the existing sheet pile and lightblock structure. The divers surfaced to convey information to the dive supervisor and to determine if adjustments were required in camera operations. After a surface interval, the divers submerged to complete the video documentation.

Based on the divers inspection, several observations were made. Below the water surface, a thick layer of zebra mussels covers the steel sheet pile. A small section of sheet pile surface was cleared with a dive knife. Under the layer of zebra mussels, it appears that the sheet pile is corroding, however, not to the degree of the deterioration at the waterline. The sheet pile appears to be leaning towards the lightblock, this may have been the way it was constructed, or due to impact from ice and/or vessels.

The concrete block structure is in poor condition below the water surface along the north and east sides. Concrete joints that are opening at the surface continue down to the concrete/timber crib intersection. There is severe spalling and deterioration of the concrete, with several layers

of steel rebar reinforcement either exposed or worn away similar to what is shown in Figures 11 – 17. There is a heavy growth of zebra mussels that partially masks this problem below the surface. The timber crib structure is showing signs of deterioration. Metal and timber bracing has detached from the structure exposing the interior planks and in some areas the fill material. The timber is also illustrating signs of severe wear at the concrete/timber interface. Continued deterioration of the cribbing will result in further loss of fill and weakening of the structural stability of the pierhead.

A large void was discovered in the north face of the east pierhead approximately 4 ft below the water surface near the center of the structure. The void may be the result of a ship colliding with the east pierhead about 2 to 3 years ago. The depth below the water surface coincides with the concrete/timber crib interface (Figure 18). It is approximately 8 ft wide, 3 – 4 ft high, and 8 ft deep. When the timber cribbing was damaged, the interior fill was exposed to and subsequently washed out by wave forces during storm events. Currently, the concrete lightblock structure is not adequately supported in this area. The lightblock has some exterior support, but only minimal central support.

Once again, the video allowed observers besides the divers to view the structures integrity. However, the video provided only a glimpse of the overall structure. This was once again due in part to suspended sediments and poor lighting, which necessitated operation of the camera closer to the structure to obtain adequate results.

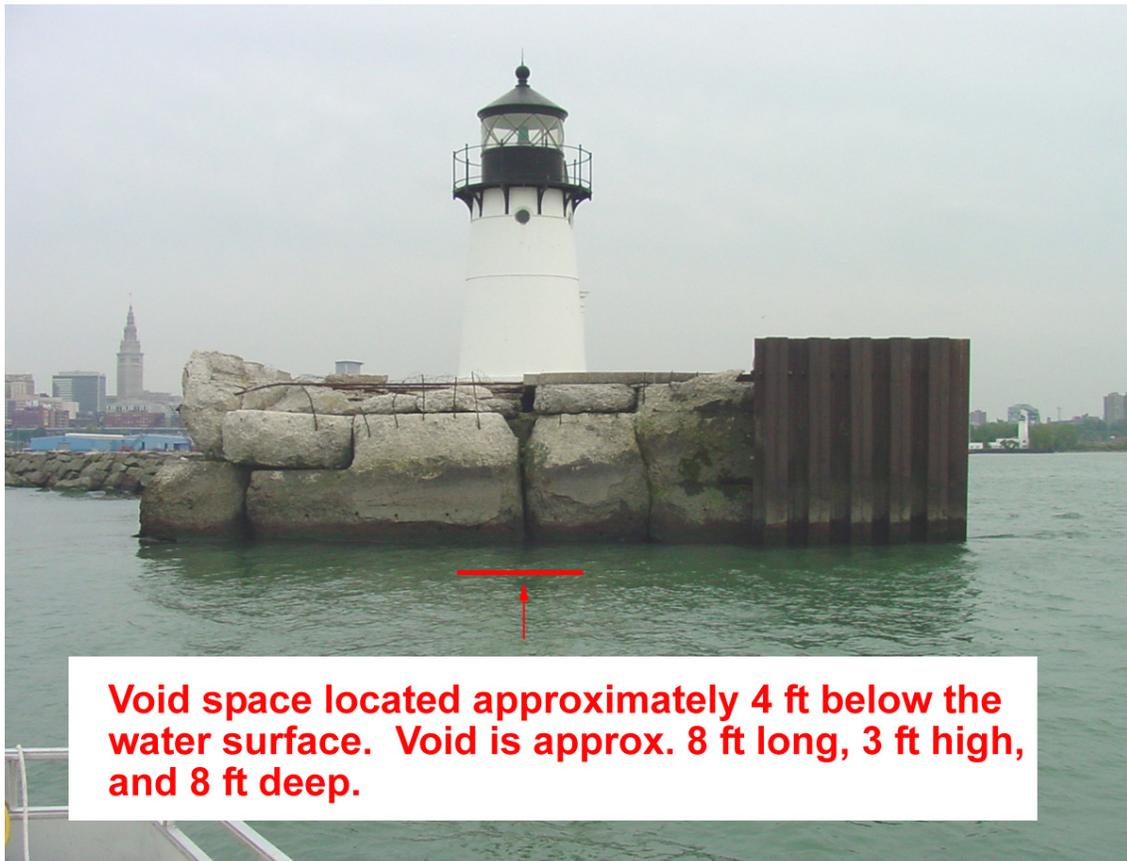


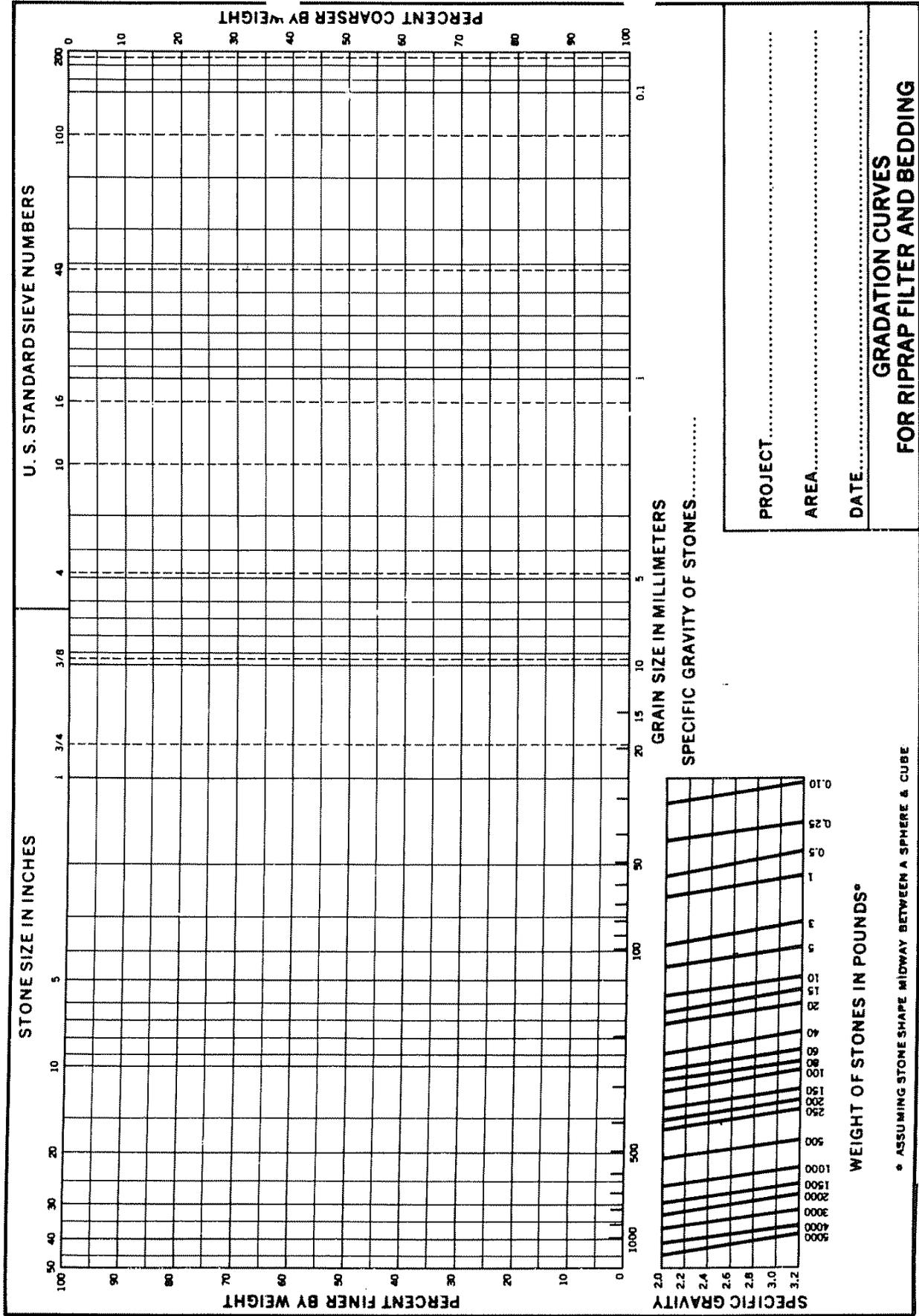
Figure 18. North face of the Cleveland East Pierhead.

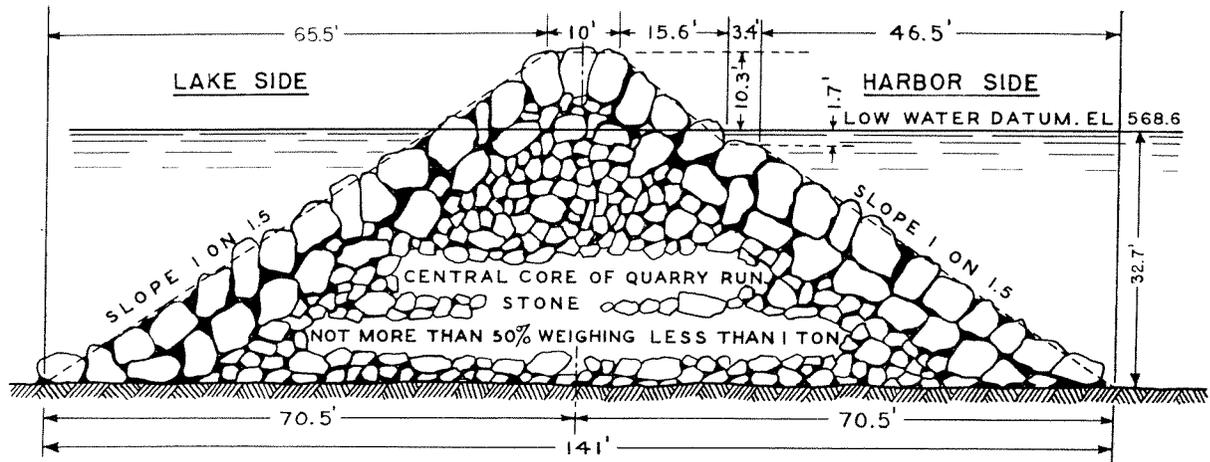
There is a layer of armor stone that surrounds the east pierhead. This layer extends approximately 25 - 30 ft from the existing timber crib structure and consists of a wide range of stone sizes from 2 ft to 5 ft in diameter. Figure 9 showed the stone covering the timber crib, the stone has since settled and is 6 to 8 ft (plus or minus) below the timber crib/concrete interface. This stone may be a combination of initial stone placement, and stone from the timber crib fill material as well as broken concrete pieces from the lightblock.

CONCLUSIONS

The Cleveland east and west pierhead lightblocks are in need of immediate repair/rehabilitation. Each pierhead exhibits various degrees of wear and deterioration of its concrete and timber crib structure. The most severe problems however, exist at the east pierhead lightblock where a large void was discovered in the north face at the concrete/timber crib intersection. The void was approximately 8 ft long, 3 ft high, and 8 ft deep, located about 4 ft below the water surface at the timber crib/concrete cap interface. Immediate attention is required to avoid complete failure of the east pierhead in the near future.

The existing sheetpile on the east pierhead is in reasonable condition and may be salvageable. The video results were beneficial to obtain up close information, however, due to a large amount of suspended sediments and poor light conditions, a macroscopic view of the east and west pierheads underwater structural conditions were not possible.



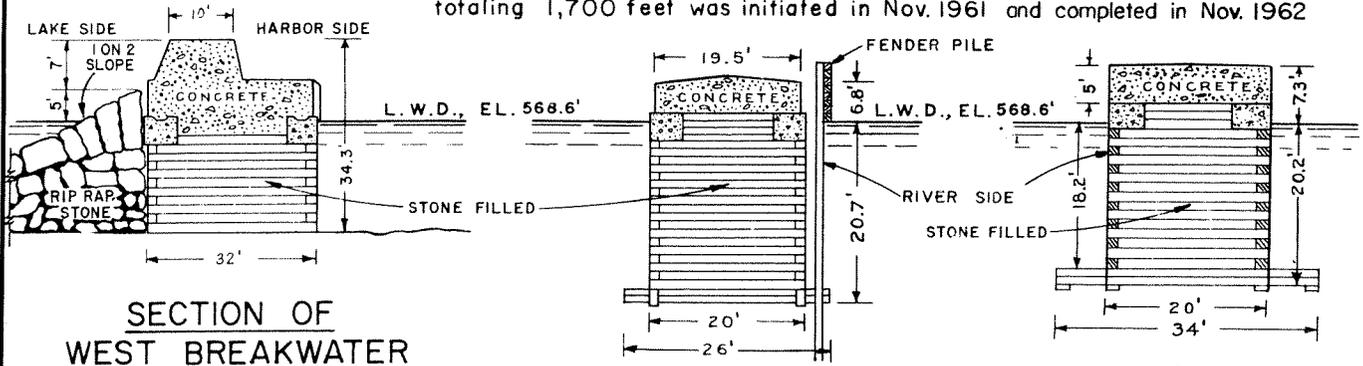


SECTION OF EAST BREAKWATER -P-

(BUILT 1903-1915)

Rehabilitation of breakwater in 5 sections

totaling 1,700 feet was initiated in Nov. 1961 and completed in Nov. 1962



SECTION OF WEST BREAKWATER

(BUILT 1876-1884)

CONCRETE SUPER-STRUCTURE

BUILT 1898-1907

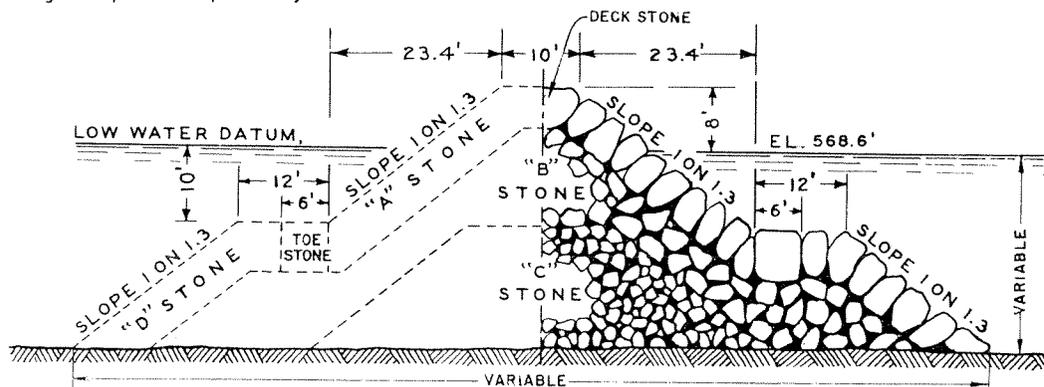
SECTION OF WEST PIER

(BUILT: SUB-STRUCTURE 1899
SUPER-STRUCTURE 1901)

SECTION OF EAST PIER

(BUILT 1875)

Rehabilitation of protective riprap slope on lake side, in sections totaling 1000' was done during the period April-May 1963.



SECTION OF ARROWHEAD BREAKWATERS

(BUILT 1904-1909)

- DECK STONE - MIN. WEIGHT 5 TONS.
- A STONE - MIN. WEIGHT 3 TONS, NOT LESS THAN 50% 5 TONS OR MORE.
- B STONE - MIN. WEIGHT 100 LBS.
- C STONE - NOT LESS THAN 35% 75 LBS. OR MORE, NOT MORE THAN 3% LESS THAN 1 LB.
- D STONE - MIN. WEIGHT 3 TONS.
- TOE STONE - MIN. WEIGHT 7 TONS.

**CLEVELAND HARBOR
OHIO**

U.S. ARMY ENGINEER DISTRICT BUFFALO

30 SEPTEMBER 1989

Surface or wall mounted sign.
Used for both large (up to 100 square feet) and small scale (up to 12 square feet) signs.

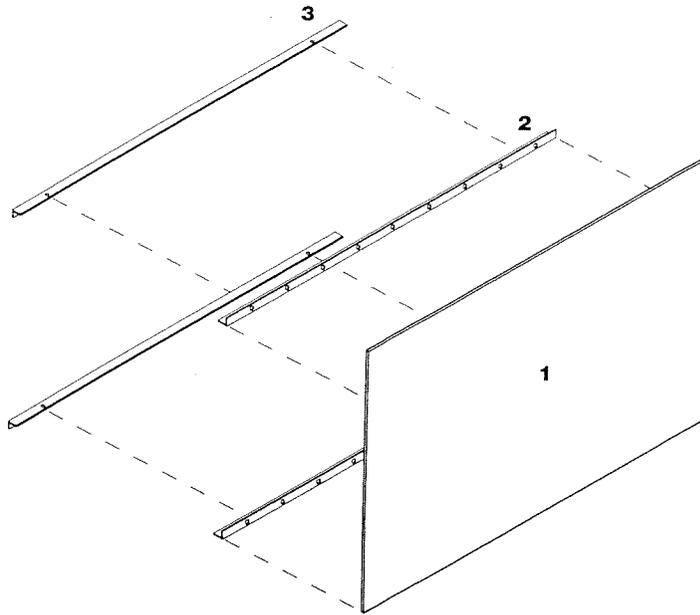
1 Aluminum sign panel, backed with continuous L-rail for rigidity. When the size of the panel is larger than the readily available sheet aluminum, a splice shall be required, see detail 16-17, page B.7-6.

Graphics shall be applied to fully assembled panel and then dis-assembled as required for shipping to installation site.

2 L-rail, attached to panel using threaded welded studs. Bolt to the wall mounted L-rail with standard stainless steel hardware, or vandal resistant hardware if required, see detail 23, page B.7-10. L-rail shall be factory pre-drilled. Receiving holes may be over-sized or slotted to allow for adjustment during field assembly.

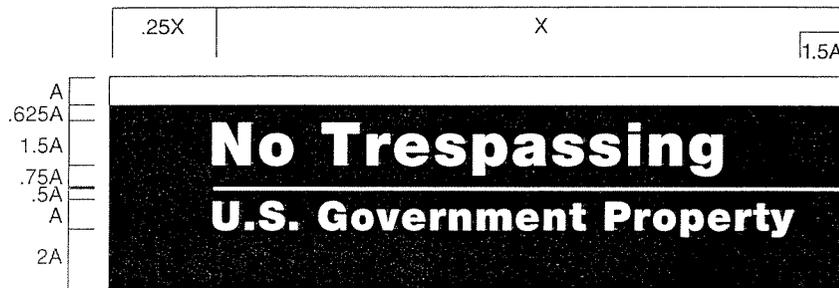
3 Continuous aluminum angle bracket, attached to surface using HILTI HVA anchor bolts (or equal).

NOTE: Both angles are continuous and are of aluminum.



Exploded View

2) Sign background color is medium blue retro-reflective sheeting with white retro-reflective legend, overbar and rule.



REG-03

The typeface used on both signs is Helvetica Bold and follows Corps standard letter and word spacing, Appendix D, page D 9. The sign panel format uses standard grid 1, page 7.35.

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
REG-4	.75"	19.25" x 5.625"	4" x 4"	HDO-5	60"	MB/WH
REG-4	.75"	10.25" x 5.625"		HDO-6*	60"	MB/WH
REG-4	1.5"	38.375" x 11.25"	4" x 4"	HDO-5	60"	MB/WH
REG-4	1.5"	38.375" x 11.25"		HDO-6*	60"	MB/WH

ALU (MATERIAL) /WTW-6 (INSTALLATION)

ALU

These signs use standard ~~HDO~~ specifications and are to be fabricated using engineering grade reflective sheeting only. These signs may be screen printed on white retro-reflective sheeting or fabricated using white cut graphics applied to base color.

The following is a list of sign materials, manufacturers and products for use by Sign Program Managers and maintenance personnel. These manufacturers have demonstrated the capability to comply with Corps Sign Standards with the products listed below.

This list is not all inclusive. Those manufacturers wishing to demonstrate the capability to meet Corps standards must provide proof of capabilities to the District Sign Program Manager.

Hardware

Stafast Products Inc.
505 Lake Shore Boulevard
Painesville, OH 44077-1197
1-216-357-5546

Stewart Fastener
P.O. Box 241328
Charlotte, NC 28224
1-704-527-4713

T-nut: T142094 (1/4"-20)
T3816154 (3/8"-16)
Socket Head Cap Bolts: 1/4"-20 x 3.5"
3/8"-16 x 3.5"

T-nuts, cap nuts, socket head bolts, and wood screws.

Engineer Grade Retro Reflective Sheeting

Recreation signs and traffic signs on HDO plywood and aluminum. (Not for use on waterway signs.)

3M Company
Traffic Control Materials Division
255-5S-08, 3M Center
St. Paul, MN 55144-1000
1-800-553-1380

Avery International
Fasson Reflective Products
250 Chester Street
Painesville, OH 44077
1-800-327-4461

* not engineering grade

Pressure Sensitive:
White 3290
Highway Yellow 3271
Lemon Yellow 580-81
Orange 1484
Red 3272

Heat Activated:
White 2290
Highway Yellow 2271
Red 2272

Pressure Sensitive:
White Fesign 1500
Corps Brown Fesign 1520
Highway Yellow Fesign 1501
Chartreuse RTC Reflective *
Orange Fesign 1504
Red FE-702
Blue FE-705

Heat Activated:
White Fesign 1600
Corps Brown Fesign 1620
Highway Yellow Fesign 1601
Orange Fesign 1604

Aluminum

Traffic and waterway signs.

Pacemaker Industries
P.O. Box 11527
Spokane, WA 99211
1-800-541-0508

Adam Metal Supply, Inc
625 Evans Street
Elizabeth, NJ 07207
1-201-351-2550

Large aluminum panels, traffic signs, Z-bars, and wind-beam frames.

Sheet and structural products

Traffic Signs

Regulatory traffic, parking/ no parking, approach roadway directional, and waterway signs.

U.S. Department of Justice (F)
UNICOR
Federal Prison Industries, Inc.
320 First Street, N.W.
Washington, D.C. 20534
202-724-8239



US Army Corps
of Engineers

Project Sign Order Worksheet

Requisition Number _____
Date _____
Page 1 of 1 pages

Ship To: _____

Prepared by:
J. FELDMANN, USACE, BUFFALO
Date _____ Telephone (716) 879 4393

Approved by:
J. FELDMANN, USACE, BUFFALO
Date _____ Telephone (716) 879 4393

Ordered by:
Date _____ Telephone _____

Instructions: Enter all requested information. Use separate Sign Order Worksheets for each different sign type. Multiple orders of identical sign types can be combined on one worksheet. Attach this order and other appropriate documentation to standard form DA-3953 and process through approved procedure within each district.

Order Summary

<input checked="" type="checkbox"/> Sign Panel(s) only	<input type="checkbox"/> Single face sign (one panel)
<input type="checkbox"/> Sign Panel(s) with posts (and frame as required)	<input type="checkbox"/> Double face sign (two panels)
<input type="checkbox"/> Post and Panel with installation	<input type="checkbox"/> Corps Castle insert

1a. Sign Panel	Sign Type	Manual Page	Legend Size	Panel Size	Grid No.	Spec. Code	Color	Plan ID No.
	REG-4	14.18	1.5"	38.375" x 11.25"	NA	ALU	MB/WH	NA

1b. Custom Sign Panel Use for: identification, directional, symbol, and special application signs
Legend: Line-for-line as to appear on sign

Use to specify directional symbol and slat system signs

Symbol/Slat 1	Symbol/Slat 2
Symbol/Slat 3	Symbol/Slat 4
1 ←	2 ↖
3 ↑	4 ↗
5 →	

For Symbol Signs indicate arrow direction by number.
For Slat System Signs (HDO-9) indicate number of slats.

Comments

INSTALLATION SHALL BE PER WTW-6 SPECIFICATION AND CONTRACT DOCUMENTS

2. Mounting Assembly

Ground Mounted	Post-size	HAGL
<input type="checkbox"/>		
Wall Mounted	Surface material	
<input checked="" type="checkbox"/>	SHEET STEEL PILE	

Comments
INSTALLATION SHALL BE PER WTW-6 SPECIFICATION AND CONTRACT DOCUMENTS

3. Installation Note any special requirements or site conditions that will effect sign placement.

CONTINUOUS ANGLE MOUNTING BRACKET SHALL BE FIELD WELDED TO SHEET STEEL PILE WALL AS SHOWN IN THE CONTRACT DOCUMENTS

4. Cost Summary

Sign Panel	Cost per unit	Quantity	Cost
	\$		\$
Mounting Assembly	\$		\$
Installation	\$		\$
Shipping	\$		\$
Total Cost			\$