GALLIPOLIS LOCKS AND DAM

OHIO RIVER BASIN

MASON COUNTY, WV

FOUNDATION REPORT

VOLUME 2 FOUNDATION DRAWINGS

CONSTRUCTION OF TWO PARALLEL LOCKS AND CANAL

CONTRACT DACW-69-88-C-0001

23 JANUARY 1993

U.S. ARMY CORPS OF ENGINEERS

HUNTINGTON DISTRICT
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# Gallipolis Lock Replacement

Ohio River Basin  
Mason County W.V.  
Foundation Report  
Volume 2 Foundation Drawings

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(Main and Auxiliary Locks)
Gallipolis Locks

Replacement

Ohio River Basin
Mason County West Virginia

Foundation Report
Volume II
Foundation Drawing

Construction of Two Parallel Locks and Canal
Contract No. DACW69-88-C-0001

Huntington District
U.S. Army Corps of Engineers
Huntington West Virginia

June 1994
Abbreviations

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<td>Ang.</td>
<td>Angular</td>
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<tr>
<td>Appro.</td>
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<tr>
<td>Bd.</td>
<td>Bed(ing)</td>
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<td>Bk.</td>
<td>Black</td>
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<tr>
<td>Bkn.</td>
<td>Broken</td>
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<tr>
<td>Bou.</td>
<td>Boulder(s)</td>
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<tr>
<td>Bre.</td>
<td>Breccia(ing)</td>
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<td>Br.</td>
<td>Brown</td>
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<td>C.</td>
<td>Coarse</td>
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<td>Dk.</td>
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<td>Dn.</td>
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<td>F.</td>
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<td>Fossiliferous</td>
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<td>Fracture(ing)</td>
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<td>Fri.</td>
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<td>Grain(ed)</td>
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<td>Ground Water</td>
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<td>H.</td>
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<td>L.</td>
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<td>M.</td>
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<td>Massive(ly)</td>
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<td>Severely</td>
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<td>Several</td>
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<td>Ve.</td>
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<td>Xbd.</td>
<td>Cross Bedded</td>
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<td>Y.</td>
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<td>Zo.</td>
<td>Zone</td>
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Symbols

Symbol | Name          | Abbreviation |
------ |-------------- |-------------|
Sandstone | SS.          |             |
Conglomerate | CONG.       |             |
Shale    | SLS.         |             |
Claystone | CLS.         |             |
Limestone | LS.          |             |
Coal     | C.           |             |
Indurated Clay | ICL.    |             |
Dolomite | DO.          |             |

Hardness

Very soft or plastic - Can be indented easily with thumb

Soft - Can be scratched with fingernail

Moderately Hard - Can be scratched easily with a knife; cannot be scratched with finger nail

Hard - Difficult to scratch with a knife

Very Hard - Cannot be scratched with a knife
U.S. Army Corps of Engineers
Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
River Wall Monolith 21
West Wall

R-21

Bd Ptn

Blast Hole

Frac

Bd Ptn

Blast Hole

Frac SS

East Wall

U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
River Wall Monolith 22

4
Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
River Wall Monolith 26
U.S. Army Corps of Engineers

Gallipolis Lock and Dam Lock in Canal
Foundation drawing
River Wall Monolith 29
U.S. Army Corps of Engineers

Gallipolis Lock and Dam
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River Wall Monolith 30
4" CORE

R-30

5" CORE

BLAST HOLE

U.S. Army Corps of Engineers
Gallipolis Lock and Dam
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Foundation drawing
River Wall Monolith 31
WEST SIDE WALL

EAST SIDE WALL
WEST WALL

EAST WALL
WEST SIDE WALL

EAST SIDE WALL

U.S. Army Corps of Engineers
Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
River Wall Monolith 33
Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
River Wall Monolith 35
WEST SIDE WALL

EAST SIDE WALL

U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
River Wall Monolith 35
WEST SIDE WALL

EAST SIDE WALL

U.S. Army Corps of Engineers
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River Wall Monolith 36
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Gallipolis Lock and Dam
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WEST SIDE WALL

EAST SIDE WALL

U.S. Army Corps of Engineers
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EAST SIDE WALL

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EAST SIDE WALL

U.S. Army Corps of Engineers
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River Wall Monolith 39

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WEST SIDE WALL

EAST SIDE WALL

U.S. Army Corps of Engineers

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WEST SIDE WALL

EAST SIDE WALL

U.S. Army Corps of Engineers
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EAST SIDE WALL

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Lock in Canal 45

Foundation drawing
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Foundation drawing, River Wall Monolith 48
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OVER BREAK
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EAST SIDE WALL
WEST SIDE WALL

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80
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EAST SIDE WALL

U.S. Army Corps of Engineers

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STA 6+60A

4" Core

STA 7+050A

6" Core

R-75

U.S. Army Corps of Engineers

Gallipolis Lock and Dam
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Foundation drawing
River Wall Monolith 74
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EAST SIDE WALL

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WEST SIDE WALL

E1 500
E1 490
E1 480

E1 500
E1 490
E1 480

E1 470
E1 460
E1 450

WEST SIDE WALL

08 + 73
08 + 73
08 + 73
08 + 73
08 + 73
00 5 73

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STA 7+07B

STA 6+45B

U.S. Army Corps of Engineers

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Sta. 4+23B

Sta. 5+81B

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Foundation drawing

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EAST WALL

Offset M28/29

Offset M29/40

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U.S. Army Corps of Engineers
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Lock in Canal
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EAST SIDE WALL

U.S. Army Corps of Engineers
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Land Wall Monolith 7
WEST SIDE WALL

EAST SIDE WALL

U.S. Army Corps of Engineers
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U.S. Army Corps of Engineers

Gallipolis Lock and Dam
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EAST SIDE WALL

U.S. Army Corps of Engineers
Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Land Wall Monolith 9

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WEST SIDE WALL

EAST SIDE WALL

L 1/10 STEP

U.S. Army Corps of Engineers
Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Land Wall Monolith 10
EAST SIDE WALL

WEST SIDE WALL

U.S. Army Corps of Engineers
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U.S. Army Corps of Engineers

Gallipolis Lock and Dam
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Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Land Wall Monolith 29

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Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
River Conduit 13, 14, 15
U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
River Conduit 18, 19

251
Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Middle Conduit 12

U.S. Army Corps of Engineers

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Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Middle Conduit 15,16
U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Middle Conduit 19,20,21

257
Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Land Conduit 10, 11
U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Land Conduit 24,25
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U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal...
Foundation Drawing
Land Conduit 26, 27
LC-28

U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Land Conduit 28
Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Land Conduit 29,30
U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Land Conduit 29,30

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Land Conduit 45, 46
Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Land Conduit 49, 50
U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Land Conduit 51, 52
U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Land Conduit 57, 58

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Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Landwall Conduit 59
EAST WALL

[Diagram of water levels and structures]

U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
River Inlet Monolith 1
U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
River Inlet Monolith 3
U.S. Army Corps of Engineers

Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Outlet Conduit

OUTLET BASIN

RC-1

RC-2

MC-1

MC-2

LC-1

LC-2
Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Outlet Conduit
Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Outlet Conduit

EAST FACE
Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Main Lock Sill
Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Main Lock Sill
Gallipolis Lock and Dam
Lock in Canal
Foundation drawing
Main Lock Sill
Gallipolis Lock and Dam
Lock in Canal
Foundation Drawing
Auxiliary Lock Sill