US Army Corps
of Engineers

Huntington District

As Constructed Plans

Phase IID – LOCAL PROTECTION PROJECT
WEST COLUMBUS, OHIO

FEBRUARY 2003

CC-13249

REDUCED 50%

I N D E X

SHEET NO.	DRAWING NO.	TITLE
		GENERAL
1	0/1	INDEX (1 OF 2)
2	0/2	INDEX (2 OF 2)
3	0/3	LEGEND
4	0/4	NOTES
5	0/5	PROJECT MAPS
6	0/6	SITE PLAN
7	0/7	SITE PLAN - BASE BID
8	0/8	SITE PLAN - OPTION 1
9	0/9	SITE PLAN - OPTION 2
10	0/10	SITE PLAN - OPTION 3
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12	6/2	MONUMENT PLAN (2 OF 4)
13	6/3	MONUMENT PLAN (3 OF 4)
14	6/4	MONUMENT PLAN (4 OF 4)
15	6/5	CWL MONUMENT TABLES
		RIGHT OF WAY
16	6/6	MONUMENT PLAN (1 OF 4)
17	6/7	MONUMENT PLAN (2 OF 4)
18	6/8	MONUMENT PLAN (3 OF 4)
19	6/9	MONUMENT PLAN (4 OF 4)
20	6/10	R/W MONUMENT TABLES
		SURVEY
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22	11/2	CENTERLINE OF PROTECTION (1 OF 6)
23	11/3	CENTERLINE OF PROTECTION (2 OF 6)
24	11/4	CENTERLINE OF PROTECTION (3 OF 6)
25	11/5	CENTERLINE OF PROTECTION (4 OF 6)
26	11/6	CENTERLINE OF PROTECTION (5 OF 6)
27	11/7	CENTERLINE OF PROTECTION (6 OF 6)
28	11/8	CENTERLINE OF PROTECTION - HORZ. ALIGN. (1 OF 3)
29	11/9	CENTERLINE OF PROTECTION - HORZ. ALIGN. (2 OF 3)
30	11/10	CENTERLINE OF PROTECTION - HORZ. ALIGN. (3 OF 3)
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32	11/12	RECREATIONAL TRAIL ALIGNMENT DATA
		LANDSCAPING
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35	12/3	VETERANS MEMORIAL PLANTING PLAN (3 OF 3)
36	12/4	MISCELLANEOUS LANDSCAPING DETAILS
37	12/5	VETERANS MEMORIAL IRRIGATION PLAN (1 OF 2)
38	12/6	VETERANS MEMORIAL IRRIGATION PLAN (2 OF 3)
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43	12/11	RICH STREET PARK LANDSCAPE PLAN
		INTERIOR DRAINAGE
44	15/1	INTERIOR DRAINAGE VETERANS MEMORIAL
45	15/2	INTERIOR DRAINAGE RICH STREET
46	15/3	GATEWELL PLAN AND SECTIONS
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SHEET NO.	DRAWING NO.	TITLE
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50	15/7	HEADWALL REINFORCING STEEL
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52	15/11	WATER LINE RELOCATION (2 OF 3)
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55	16/2	PLAN AND PROFILE STA. 156+00 TO 161+00
56	16/3	PLAN AND PROFILE STA. 161+00 TO 166+00
57	16/4	PLAN AND PROFILE STA. 166+00 TO 171+00
58	16/5	PLAN AND PROFILE STA. 171+00 TO 176+00
59	16/6	PLAN AND PROFILE STA. 176+00 TO 181+00
60	16/7	PLAN AND PROFILE STA. 181+00 TO 186+00
61	16/8	PLAN AND PROFILE STA. 186+00 TO 191+00
62	16/9	PLAN AND PROFILE STA. 191+00 TO 196+00
63	16/10	PLAN AND PROFILE STA. 196+00 TO 201+00
64	16/11	PLAN AND PROFILE STA. 201+00 TO 206+00
65	16/12	PLAN AND PROFILE STA. 206+00 TO 211+00
66	16/13	PLAN AND PROFILE STA. 211+00 TO 215+82.37
-	16/14	(NOT USED)
67	16/15	CROSS SECTIONS 151+26.73 TO 153+00
68	16/16	CROSS SECTIONS 153+50 TO 156+00
69	16/17	CROSS SECTIONS 156+50 TO 159+00
70	16/18	CROSS SECTIONS 159+50 TO 162+00
71	16/19	CROSS SECTIONS 162+50 TO 165+00
72	16/20	CROSS SECTIONS 165+50 TO 168+00
73	16/21	CROSS SECTIONS 168+50 TO 171+00
74	16/22	CROSS SECTIONS 171+50 TO 174+00
75	16/23	CROSS SECTIONS 174+50 TO 177+00
76	16/24	CROSS SECTIONS 177+50 TO 180+00
77	16/25	CROSS SECTIONS 180+50 TO 183+00
78	16/26	CROSS SECTIONS 183+50 TO 186+00
79	16/27	CROSS SECTIONS 186+50 TO 189+00
80	16/28	CROSS SECTIONS 189+50 TO 192+00
81	16/29	CROSS SECTIONS 192+50 TO 195+00
82	16/30	CROSS SECTIONS 195+50 TO 198+00
83	16/31	CROSS SECTIONS 198+50 TO 201+00
84	16/32	CROSS SECTIONS 201+50 TO 204+00
85	16/33	CROSS SECTIONS 204+50 TO 207+00
86	16/34	CROSS SECTIONS 207+50 TO 210+00
87	16/35	CROSS SECTIONS 210+50 TO 213+00
88	16/36	CROSS SECTIONS 213+50 TO 215+82.37
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90	16/51	PLAN AND PROFILE STA. 39+00 TO 41+50
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92	16/53	CROSS SECTIONS 37+00 TO 39+50
93	16/54	CROSS SECTIONS 40+00 TO 41+50
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		FLOODWALL
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96	20.1/2	TYPICAL I-WALL DETAILS
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SHEET NO.	DRAWING NO.	TITLE
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102	20.1/8	FLOODWALL PLAN STA. 155+00 TO 159+24
103	20.1/9	FLOODWALL PLAN STA. 159+24 TO 162+00
104	20.1/10	FLOODWALL PLAN STA. 162+00 TO 164+40
105	20.1/11	I-WALL PLAN STA. 189+60 TO 194+00
106	20.1/12	I-WALL PLAN STA. 204+60 TO 210+75
107	20.1/13	I-WALL PLAN STA. 210+75 TO 213+50
108	20.1/14	MISCELLANEOUS DETAILS
		CONRAIL EAST RAILROAD CLOSURE
109	20.2/1	PLAN AND PROFILE
110	20.2/2	CONRAIL EAST RR CLOSURE DETAILS
111	20.2/3	CONRAIL EAST RR SHEETPILE CUTOFF WALL
		TOWN STREET AREA AND CLOSURE
112	20.2/4	TOWN STREET SANDBAG CLOSURE
113	20.2/5	TOWN STREET WALKWAY ACCESS PLAN AND PROFILE
		WASHINGTON BOULEVARD CLOSURE
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		RICH STREET GATE CLOSURE
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117	20.2/9	BUTTRESS MONOLITHS REINFORCEMENT
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120	20.2/12	STOP LOGS AND POST DETAILS
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123	20.2/15	STOP LOG STORAGE BUILDING - SITE PLAN
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128	20.2/19	CONRAIL/CSX RR CLOSURE DETAILS
129	20.2/20	CONRAIL/CSX RR SHEETPILE CUTOFF WALL
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182	20.2/72	ELECTRICAL DETAILS (1 OF 2)

Prepared by:
CHIEF, DESIGN BRANCH

Recommended by:
CHIEF, ENGINEERING DIVISION

Approved by:
COL. C. E. DISTRICT ENGINEER

Date:

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GENERAL
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193	20.4/3	PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.
194	20.4/4	PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.
195	20.4/5	PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.
196	20.4/6	PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.
197	20.4/7	PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.
198	20.4/8	CROSS SECTIONS 13+70 TO 16+00
199	20.4/9	CROSS SECTIONS 16+50 TO 19+00
200	20.4/10	CROSS SECTIONS 19+50 TO 22+00
201	20.4/11	CROSS SECTIONS 22+50 TO 25+00
202	20.4/12	CROSS SECTIONS 25+50 TO 28+00
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215	92/3	MAINTENANCE OF TRAFFIC (3 OF 6)
216	92/4	MAINTENANCE OF TRAFFIC (4 OF 6)
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229	10/7*	GRAPHIC LOGS OF BORINGS
230	10/8*	GRAPHIC LOGS OF BORINGS
231	10/9*	GRAPHIC LOGS OF BORINGS
232	10/10*	GRAPHIC LOGS OF BORINGS
233	10/11*	GRAPHIC LOGS OF BORINGS
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235	10/13*	GEOLOGIC SECTION C-C
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239	10/17*	GEOLOGIC PROFILE H-H
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242	14/2*	STAGE HYDROGRAPHS
243	14/3*	STAGE HYDROGRAPHS
244	14/4*	STAGE HYDROGRAPHS
245	14/5*	STAGE HYDROGRAPHS
246	14/6*	STAGE HYDROGRAPHS
247	14/7*	STAGE HYDROGRAPHS
248	14/8*	STAGE HYDROGRAPHS
249	14/9*	STAGE HYDROGRAPHS
250	14/10*	STAGE HYDROGRAPHS
251	14/11*	STAGE HYDROGRAPHS
252	14/12*	STAGE HYDROGRAPHS
253	14/13*	STAGE HYDROGRAPHS
254	14/14*	STAGE HYDROGRAPHS
255	14/15*	STAGE HYDROGRAPHS
256	14/16*	CORRELATION CURVE
*		FOR INFORMATION ONLY

Revisions			
Symbol	Descriptions	Date	Approved
1	REV. BY CONTRACT MODIFICATION LETTER MC009	4/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

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GENERAL
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WORK AS CONSTRUCTED

DRAINAGE
GUARDRAIL
ESS — EXISTING SANITARY SEWER
EG — EXISTING GAS LINE
EW — EXISTING WATER LINE
ESL — EXISTING SLUDGE LINE
EUF — EXISTING U.G. FIBER OPTIC
EFM — EXISTING FORCE MAIN
EST — EXISTING STORM SEWER
RSS — RELOCATED SANITARY SEWER
RG — RELOCATED GAS LINE
RW — RELOCATED WATER LINE
RST — RELOCATED STORM SEWER
RSL — RELOCATED SLUDGE LINE
RUF — RELOCATED U. G. FIBER OPTIC
RP — RELOCATED POWER
RT — RELOCATED TELEPHONE
RCT — RELOCATED CABLE TV
RCC — RELOCATED CITY COMM.
RF — RELOCATED FIBER OPTIC
EP — EXISTING POWER
ET — EXISTING TELEPHONE
ECT — EXISTING CABLE TV
ECC — EXISTING CITY COMM.
EF — EXISTING FIBER OPTIC
SLM — NEW SANITARY SEWER, SLUDGE MAIN OR FORCE MAIN
NEW INTERCEPTOR
ST — NEW STORM SEWER
NEW DRAINAGE DITCH
W — NEW WATER LINE
EXISTING PIPE TO BE PLUGGED AND ABANDONED
EXISTING PIPE TO BE REMOVED
DIRECTION OF RIVER FLOW

SWAMP
CORPORATE BOUNDARY LIMITS
RAILROAD
RAILROAD
CHAIN-LINK FENCE
TREELINE
BRUSH LINE
TANKS
TREE / BUSH
CWL — CONTRACTOR WORK LIMITS
LWL — LIMITED WORK LIMITS
R/W — RIGHT OF WAY
CURB
ROAD
UNIMPROVED ROAD
TRAIL
STONE SLOPE PROTECTION LIMITS (PLAN)
10+00
11+00
CENTERLINE OF PROJECT
UNIFORM SLOPE DESIGNATON
EXISTING SLOPE
49 — STATE HIGHWAY
79 — INTERSTATE HIGHWAY
59 — U.S. HIGHWAY
IP/C — IRON PIN AND CAP
TREE W/BASE
CULVERT
TS — TRAFFIC SIGNAL
TRANS. TOWER
CB — CATCH BASIN
MH — EXISTING MANHOLE
NMH — NEW MANHOLE
L.P. — LIGHT POLE
FIRE HYDRANT
SIGN POST
V. CONTROL
H.-H./V. CONTROL
POWER POLE
POST
M.B. — MAIL BOX
M — METER
S. — SIGN
IN SITU ROCK
IN SITU EARTH
EARTH FILL

SURFACE DRAINAGE FLOW
CULVERT END
HEADWALL
℄ — CENTERLINE
VALVE
CONTAMINATED SOIL

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
ALT	ALTERNATE
ALUM	ALUMINUM
AWWA	AMERICAN WATER WORKS ASSOC.
@	AT
B	BASE, BEAM OR BOTTOM
BM	BENCH MARK
BOT	BOTTOM
C	CHANNEL, CONDUIT
CC	CENTER TO CENTER
CTRS	CENTERS
℄	CENTERLINE
CJ	CONSTRUCTION JOINT
CL, CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CRS	CORROSION RESISTANCE STEEL
CWL	CONTRACTOR'S WORK LIMITS
CY	CUBIC YARD
DCIP	DUCTILE CAST IRON PIPE
DI	DROP INLET
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EJFS	EXPANSION JOINT FILLER STRIP
EL, ELEV	ELEVATION
EQ	EQUAL
EW	EACH WAY
EX, EXIST	EXISTING
EXP	EXPANSION
FIN	FINISHED
FT	FEET, FOOT
GA	GAUGE OR GAGE
GALV	GALVANIZED
GRD	GROUND
H, HORIZ	HORIZONTAL
HEX HD	HEXAGONAL HEAD
HS	HIGH STRENGTH, HEADED STUD
IF	INSIDE FACE
IJ	ISOLATION JOINT
INV	INVERT
IP	IRON PIN
JT	JOINT
LB	POUND
Ld	TENSILE DEVELOPMENT LENGTH
LT	LEFT
LLH	LONG LEG HORIZONTAL
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT, MONOLITH JOINT
MK	MARK
N	NORTH
#, NO	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPG	OPENING
OPP	OPPOSITE
OZ	OUNCE
PC	PIPE COVER (MIN.)
PI	POINT OF INTERSECTION
℄	PLATE OR PROPERTY LINE
PROJ	PROJECTION
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
QUAN	QUANTITY
R	RADIUS OR RISER
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REINF	REINFORCING
REQ'D	REQUIRED
RGC	RIGID GALVANIZED CONDUIT
RF	ROOF FRAME
RT	RIGHT
S	SOUTH
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPC	SPACES
SQ	SQUARE
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STIR	STIRRUPS
STL	STEEL
STR	STRAIGHT, STRUCTURAL
SY	SQUARE YARD
SYM	SYMMETRICAL
T	TOP OR TREAD
TOE	TOP OF EXCAVATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V, VERT	VERTICAL
VAR	VARIES
VC	VERTICAL CURVE
VPT	VERTICAL POINT OF TANGENCY
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
W	WIDE FLANGE, WEST
W/	WITH
W/O	WITHOUT
WS	WATERSTOP

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GENERAL LEGEND

Scale: NONE
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 03
FILENAME: 00gdlg01.dgn
PBN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

SURVEY

1. CURVE DATA SHOWN IS BASED ON ARC DEFINITION.

CONSTRUCTION PROCEDURE

2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR A STREET EXCAVATION AND OCCUPANCY PERMIT FROM THE DIVISION OF ENGINEERING AND CONSTRUCTION PRIOR TO OPEN CUT ON ANY PAVEMENT IN THE CITY OF COLUMBUS.(614) 645-7113

3. THE WORD FLOODWALL IN THIS SET OF DRAWINGS IS USED AS A GENERIC TERM TO INDICATE FLOODWALL OR LEVEE.

4. STRIPPED MATERIAL SUITABLE FOR USE AS FILL, BACKFILL OR TOPSOIL SHALL BE STOCKPILED AT A LOCATION PROVIDED BY THE CONTRACTOR AND APPROVED BY THE CONTRACTING OFFICER.

5. THE PROCEDURES FOR THE HANDLING OF SEWERS AND OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION WHICH ARE NOT SHOWN ON THE DRAWINGS SHALL BE DIRECTED BY THE CONTRACTING OFFICER. ACTIVE SEWERS TO BE ABANDONED SHALL BE ADJUSTED AS NECESSARY TO FACILITATE CONSTRUCTION AND FILLED ALONG THE ENTIRE PIPE LENGTH. SEWERS DETERMINED TO BE ALREADY ABANDONED SHALL BE REMOVED AS NECESSARY. BROKEN PIECES AND PORTIONS OF PIPE OR TILE SHALL BE REMOVED UNTIL A WHOLE LENGTH IS ENCOUNTERED, AND PLUGGED WITH CONCRETE FOR A MINIMUM DISTANCE OF TWO FEET HORIZONTALLY, UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY ITEM NOT SPECIFICALLY INDICATED FOR REMOVAL THAT IS DAMAGED OR DESTROYED BY HIS OPERATIONS.

7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL FEES SUCH AS (BUT NOT LIMITED TO) STREET OPENING PERMITS, TAP FEES, PARKING METER FEES, WATER METERS AND CONSTRUCTION MATERIALS TESTING.

8. TO FACILITATE CONSTRUCTION, HORIZONTAL STEM REINFORCEMENT IN FLOODWALL MONOLITHS MAY BE PLACED ON EITHER SIDE OF VERTICAL REINFORCEMENT PROVIDED THE REQUIRED CONCRETE COVER ON THE VERTICAL REINFORCING BARS IS MAINTAINED.

MAINTENANCE OF TRAFFIC

9. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS, COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.

10. THE TRAFFIC ENGINEERING AND PARKING DIVISION CONSTRUCTION MANAGER (645-6269) AND THE COLUMBUS PAVING THE WAY PROGRAM (645-3970) SHALL BE NOTIFIED A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING WORK AND/OR PRIOR TO EACH PHASE OR MAJOR CHANGE IN TRAFFIC PATTERNS, EITHER PERMANENT OR TEMPORARY, WITHIN THE ROADWAY RIGHT-OF-WAY.

11. STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. CONES ARE NOT APPROVED FOR USE AT NIGHT.

12. THE CITY OF COLUMBUS TRAFFIC ENGINEERING AND PARKING DIVISION WILL REMOVE ALL PARKING METER HEADS ALONG WASHINGTON BOULEVARD PUT OUT OF SERVICE FOR CONSTRUCTION OF THE LEVEE AS SHOWN ON DRAWING NOS. 16/7 AND 16/8. SEE DRAWING NO 92/6 FOR THE NUMBER AND TYPE OF METER TO BE REMOVED. THERE IS A $60.00 CHARGE FOR THE REMOVAL AND REINSTALLATION OF EACH METER. IN ADDITION THERE IS A DAILY CHARGE OF $6.00 FOR EACH 1-HOUR METER, $4.00 FOR EACH 2-HOUR METER AND $1.20 FOR EACH 12-HOUR METER PUT OUT OF SERVICE. THESE CHARGES MAY CHANGE WITHOUT NOTICE TO THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION AND WILL BE COLLECTED FROM THE CONTRACTOR IN ADVANCE WITH THE ISSUANCE OF THE STREET OCCUPANCY PERMIT. THE DIVISION OPERATIONS ENGINEER (645-7790) SHALL BE NOTIFIED A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK (SATURDAY AND SUNDAY DO NOT COUNT IN THE NOTIFICATION TIME).

13. THE TRAFFIC ENGINEERING AND PARKING DIVISION SHALL LOCATE AND MARK ALL UNDERGROUND TRAFFIC CONTROL CONDUIT/CABLES. THE DIVISIONS SYSTEMS ENGINEER SHALL BE NOTIFIED (645-7790) AT LEAST FORTY-EIGHT HOURS, NOT INCLUDING SATURDAY AND SUNDAY (SIX WEEKS FOR SIGNAL REVISIONS AND/OR POLE RELOCATIONS) PRIOR TO THE BEGINNING OF ANY WORK WITHIN 400 FEET OF THE SIGNALIZED INTERSECTIONS OR WITHIN ANY POSTED AREA WHERE THE DIVISION HAS UNDERGROUND CONDUIT/CABLE.

14. NO EXCAVATION SHALL BE MADE WITHIN FIVE FEET OF ANY POLE THAT SUPPORTS TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARM OR SIGNAL SPAN. EXCAVATION WITHIN EIGHT FEET, BUT MORE THAN FIVE FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY, ETC.) THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING AND PARKING DIVISION SYSTEMS ENGINEER (645-7790) AT LEAST FORTY-EIGHT HOURS, NOT INCLUDING SATURDAY AND SUNDAY, PRIOR TO THE BEGINNING OF SUCH EXCAVATION, SO THAT THE DIVISION MAY INSTALL SUCH SUPPORTS AT THE CONTRACTOR'S EXPENSE.

15. WHEN A TRAFFIC SIGNAL DETECTOR OR THE DETECTOR LEAD-IN CABLE GETS CUT OR DAMAGED, THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEERING AND PARKING DIVISIONS SYSTEMS ENGINEER AT (614) 645-7790 BETWEEN 8:00AM AND 4:30PM MONDAY THRU FRIDAY. AT OTHER TIMES OR IF THE SYSTEMS ENGINEER CANNOT BE REACHED, CONTACT THE TRAFFIC ENGINEERING AND PARKING MAINTENANCE SHOP (614) 645-7393, LEAVING A MESSAGE ON THE ANSWERING MACHINE IF NECESSARY.

16. THE ROADWAY SHALL NOT BE OPENED TO TRAFFIC UNTIL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS, APPROVED BY THE ENGINEER, ARE INSTALLED. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.

17. ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS SHALL BE MAINTAINED THROUGHOUT THIS PROJECT BY THE CONTRACTOR. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED AND IMPROPERLY PLACED SIGNS.

18. ANY WORK DONE BY THE TRAFFIC ENGINEERING AND PARKING DIVISION, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

UTILITIES RELOCATION

19. RELOCATION OF UTILITIES FOR THE CONVENIENCE OF THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.

20. THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICES (TELEPHONE 1-800-362-2764 TOLL FREE) AND THE OWNERS OF UNDERGROUND UTILITY FACILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICES IN ACCORDANCE WITH THE OHIO REVISED CODE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS PRIOR TO START OF CONSTRUCTION.

21. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION:

SEWERAGE AND DRAINAGE	645-8156
WATER	645-7788
ELECTRICITY	645-7627

22. THE FOLLOWING IS A LIST OF UTILITIES AND OWNERS:

Columbus Southern Power
215 North Front Street
Columbus, Ohio 43215
(614) 464-7911

Ameritech
Room 6C 215
150 East Gay Street
Columbus, Ohio 43215
(614) 223-8535

AT&T
711-P Dearborn Park Lane
Columbus, Ohio 43085
(614) 433-0703

Columbus Division of Electricity
Utilities Complex
910 Dublin Road
Columbus, Ohio 43215-1116
(614) 645-7627

Columbus Division of Water
Utilities Complex
910 Dublin Road
Columbus, Ohio 43215-1116
(614) 645-7788

Columbus Division of
Sewerage & Drainage
Utilities Complex
910 Dublin Road
Columbus, Ohio 43215-1116
(614) 645-7175

Columbus Division of
Communications
220 Greenlawn Avenue
Columbus, Ohio 43223
(614) 645-7344

Columbus Division of
Traffic Engineering
1820 E. 17th Avenue
Columbus, Ohio 43219
(614) 645-7393

LCI International
4650 Lakehurst Court
Dublin, Ohio 43017
(614) 798-6000

Sprint Communications
120 North Broadway
Akron, Ohio 44304
(800) 767-3199

Warner Cable
1266 Dublin Road
Columbus, Ohio 43215
(614) 481-5361

World Com
One William Center
Tulsa, Oklahoma
(918) 590-5185

Columbia Gas of Ohio
920 West Goodale
Columbus, Ohio 43215
(614) 460-2398

Consolidated Rail
1335 Dublin Road, Suite 112A
Columbus, Ohio 43215
(614) 771-3001

CSX Transportation
2600 Parsons Avenue
Columbus, Ohio 43207
(614) 445-4188

Veterans Memorial
300 West Broad Street
Columbus, Ohio 43215
(614) 221-4341

MAPPING

23. ELEVATIONS ARE EXPRESSED IN FEET AND REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.

24. HORIZONTAL COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE OHIO STATE PLANE COORDINATE SYSTEM SOUTH ZONE, BASED ON THE NORTH AMERICAN DATUM OF 1927.

25. TOPOGRAPHY DOES NOT REFLECT RECENT BUILDING REMOVAL, CONSTRUCTION OR GRADING.

26. THE MAPPING OF THE PROJECT SITE WAS COMPILED FROM PHOTOGRAPHY FLOWN NOVEMBER 1988.

RIGHT OF WAY /WORKING LIMITS

27. WORKING AREA AVAILABLE TO THE CONTRACTOR IS INDICATED BY THE CONTRACTOR WORK LIMITS (CWL). ANY ADDITIONAL AREA NEEDED BY THE CONTRACTOR SHALL BE ACQUIRED AT HIS OWN EXPENSE.

28. WITHIN THE AREA DESIGNATED ON THE DRAWINGS AS LIMITED WORK LIMITS (LWL) AT VETERANS MEMORIAL AND THE RAILROADS, WORK SHALL BE LIMITED TO ACCESS, EGRESS AND CONSTRUCTION OF THE PROJECT FEATURES WITHIN THE LWL. THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR EQUIPMENT WITHIN THE LWL AND SHALL CONDUCT OPERATIONS SO AS TO MINIMIZE IMPACTS TO LANDOWNERS.

29. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OUTLINED IN THE SPECIFICATIONS FOR ALL WORK ON CONSOLIDATED RAIL CORPORATION AND CSX RIGHT OF WAY. CONRAIL AND CSX HAVE AGREED TO SHUTDOWNS OF RAIL TRAFFIC AND REMOVAL OF RAIL TO ACCOMODATE CONSTRUCTION. SEE SECTION 01500, CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS, FOR PARTICULARS.

SPOIL MATERIAL

30. THE CONTRACTOR SHALL DISPOSE OF SPOIL MATERIALS OFF-SITE IN ACCORDANCE WITH PART 3 OF SECTION 02221 EXCAVATION, OF THE SPECIFICATIONS.

GENERAL

31. REFERENCES TO "GATE STORAGE BUILDING" AND "STOP LOG STORAGE BUILDING" ARE SYNONYMOUS.

32. THE CURRENT CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS AND STANDARD DRAWINGS, INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAY WITH RESPECT TO ROADWAY WORK AND UTILITIES.

33. WHERE NEW WORK IS TO BE ACCURATELY JOINED TO EXISTING WORK, THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, GRADES AND ELEVATIONS OF ALL EXISTING CONSTRUCTION. ELEVATIONS FOR TOP OF CATCH BASINS AND MANHOLES SHALL ALSO BE VERIFIED PRIOR TO ORDERING.

34. THE CONTRACTOR SHALL PROVIDE TREE PROTECTION IN THE CONTRACTOR LAYDOWN AREA AS OUTLINED IN SPECIFICATION SECTION 02050. ANY TREE IN THE LAYDOWN AREA DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS SHALL BE REPLACED IN KIND. IN ADDITION, THE CONTRACTOR SHALL PROVIDE ACCESS TO THE POOL AND SKATEBOARD PARK AT ALL TIMES DURING CONSTRUCTION. TEMPORARY CONSTRUCTION FENCES SHALL BE ERECTED AS NECESSARY TO KEEP CHILDREN AWAY FROM TRAILERS AND CONSTRUCTION ZONES.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

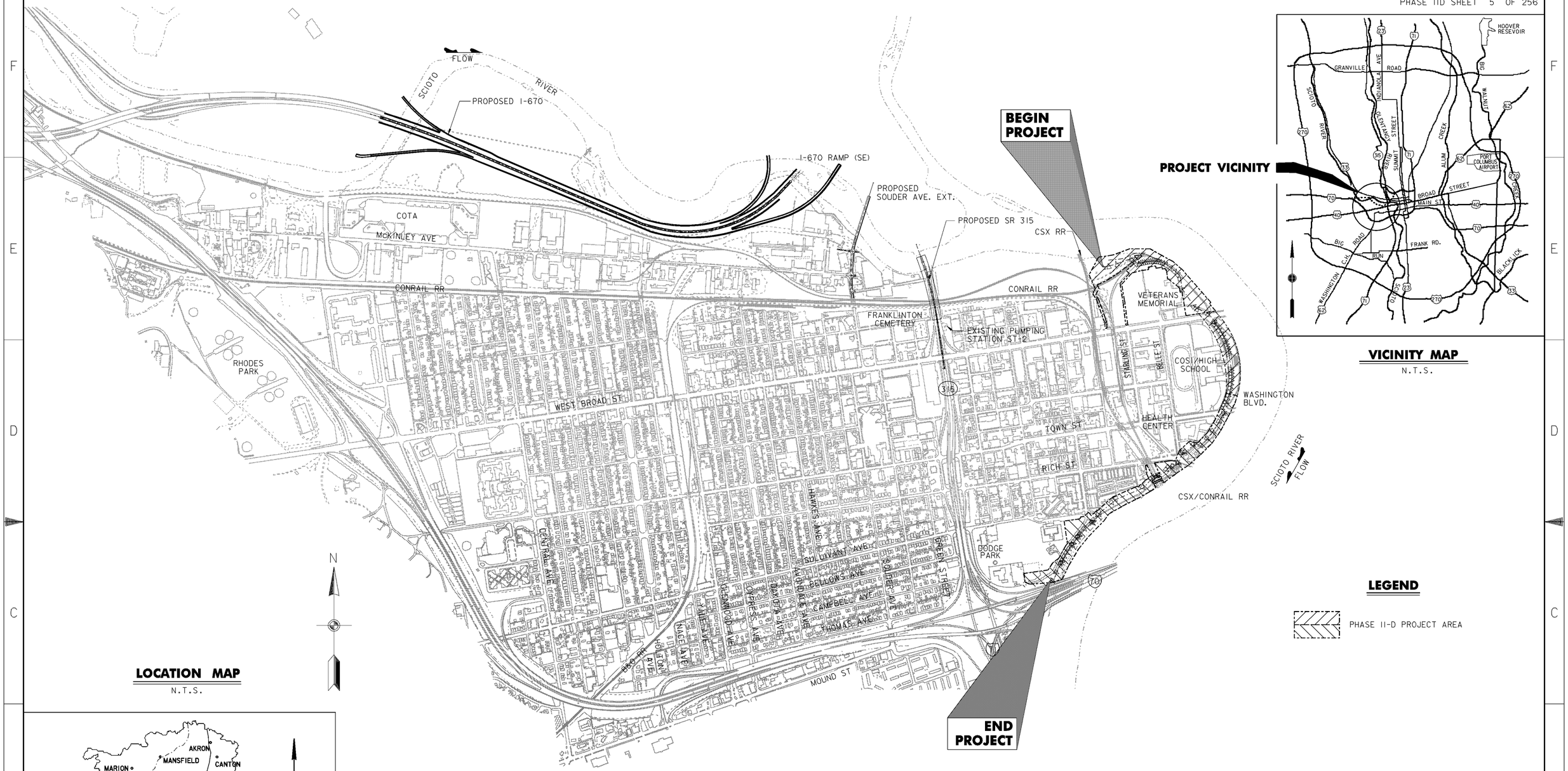
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GENERAL NOTES

Scale: NONE
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 04
FILENAME: 00gdgn01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

PHASE IID SHEET 5 OF 256



PROJECT VICINITY

VICINITY MAP

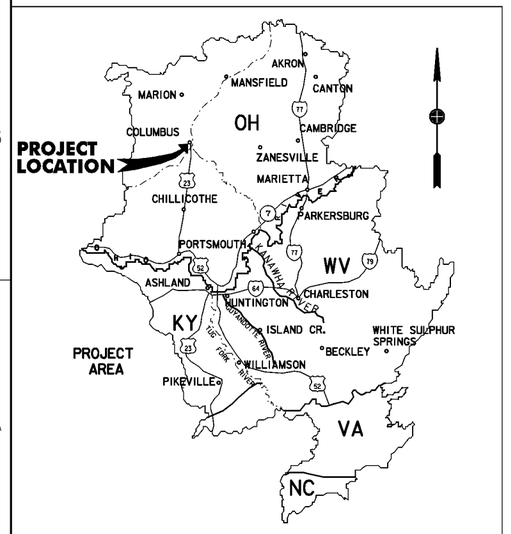
N.T.S.

LEGEND

PHASE II-D PROJECT AREA

LOCATION MAP

N.T.S.



PROJECT MAP

SCALE: 1" = 500'

500' 0 500'

Revisions			
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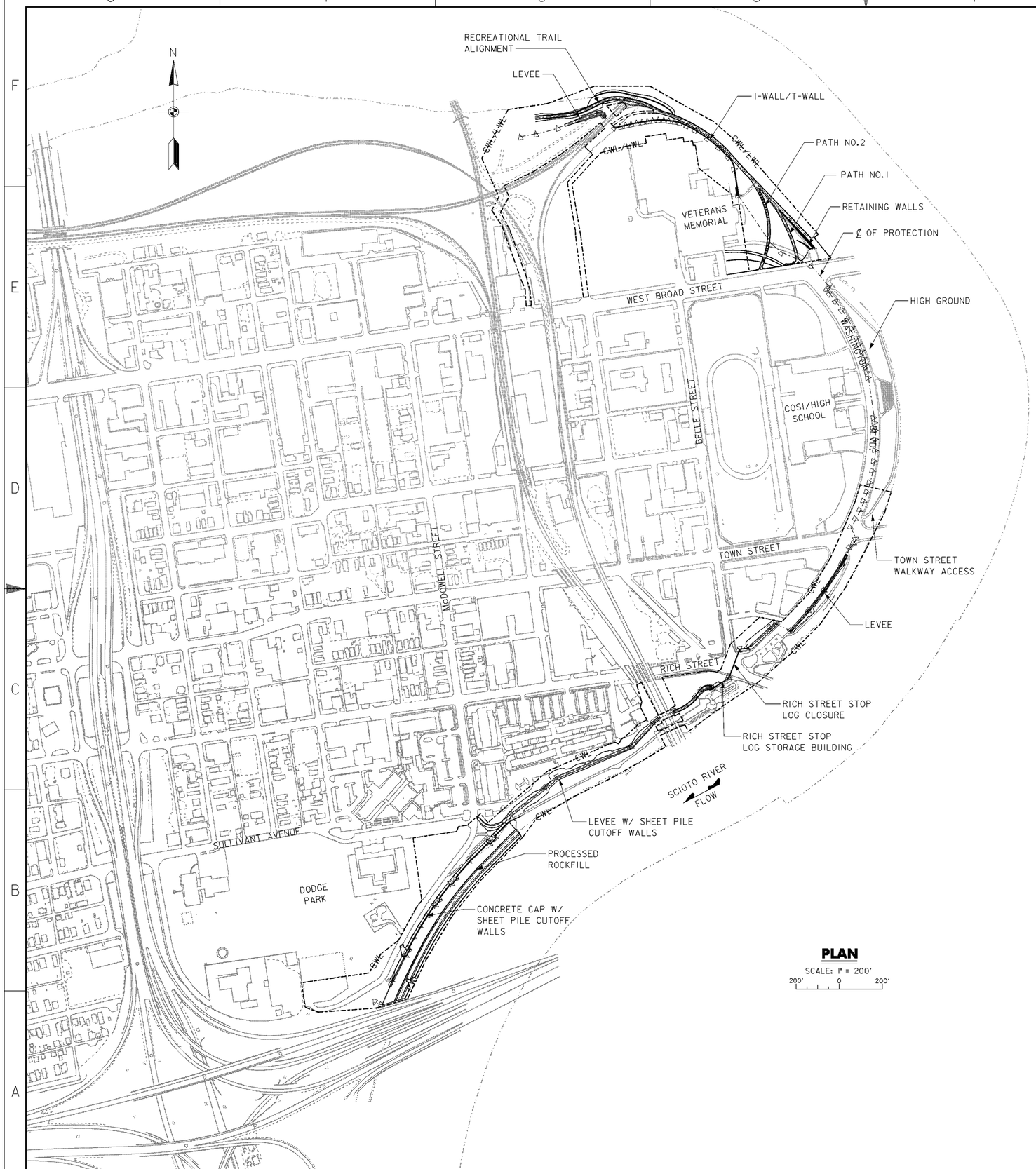
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

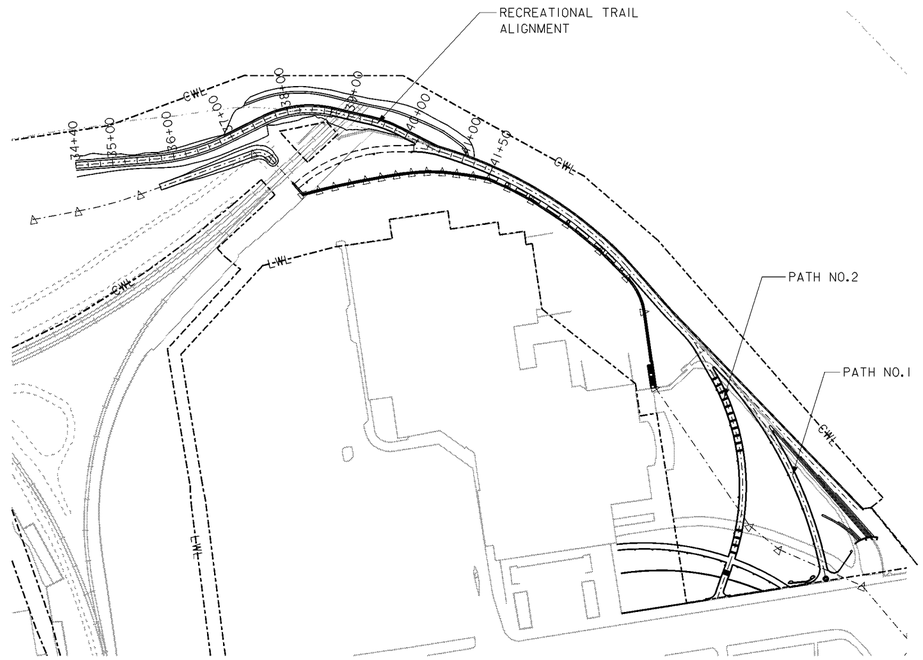
GENERAL PROJECT MAPS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 05
FILENAME: 00a5pm01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN
SCALE: 1" = 200'
200' 0 200'



RECREATIONAL TRAIL GENERAL SITE PLAN
SCALE: 1" = 100'
100' 0 100'

NOTES

1. FOR PROJECT LOCATION AND VICINITY MAPS SEE DRAWING NO. 0/5.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLAN SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR RIGHT OF WAY MONUMENT PLAN SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.

Revisions			
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COLUMBUS, OHIO
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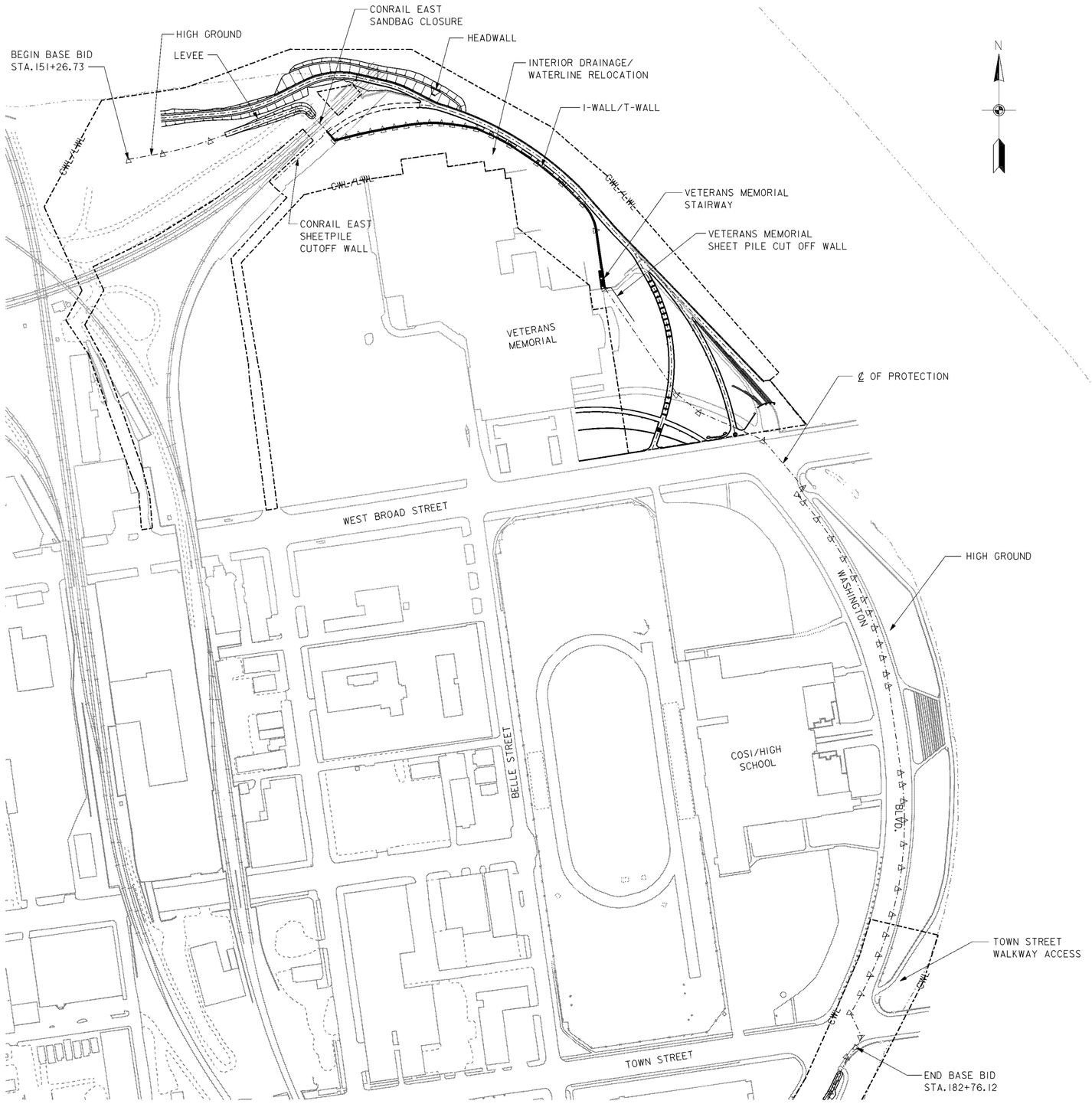
GENERAL SITE PLAN

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 0/6
FILENAME: 00a5pl01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN
SCALE: 1" = 100'
100' 0 100'

SCOPE OF WORK

THE BASE BID INCLUDES THE CONSTRUCTION OF THE FLOOD PROTECTION FEATURES (LEVEE, I-WALL, AND T-WALL) FROM THE BEGINNING OF THE PROJECT, STATION 151+26.73, TO THE SOUTH SIDE OF TOWN STREET AT STATION 182+76.12. THE BASE BID ALSO INCLUDES THE CONSTRUCTION OF THE CONRAIL EAST SANDBAG CLOSURE AND SHEET PILE CUTOFF WALL; INTERIOR DRAINAGE SYSTEM, HEADWALL, GATEWELL, AND WATER LINE RELOCATION BEHIND VETERANS MEMORIAL; VETERANS MEMORIAL SHEET PILE CUTOFF WALL; AND THE TOWN STREET WALKWAY ACCESS.

RELATED DRAWINGS BASE BID

0/1 THRU 0/6
6/1 THRU 6/3 AND 6/5
6/6 THRU 6/8 AND 6/10
11/1 THRU 11/4
11/8 AND 11/9
15/1 AND 15/3 THRU 15/7
15/10 AND 15/11
16/1 THRU 16/7
16/15 THRU 16/25
20.1/1 THRU 20.1/10 AND 20.1/14
20.2/1 THRU 20.2/5
20.2/29 AND 20.2/30 (PAVEMENT REMOVAL/REPLACEMENT ONLY)
20.2/44 THRU 20.2/46
20.2/55 (FLOODWALL AND STAIRWAY RAILING ONLY)
20.2/65 AND 20.2/66
20.3/1 AND 20.3/2
107/1 AND 107/2
10/1 THRU 10/18
14/1 THRU 14/16

NOTES

1. FOR PROJECT LOCATION AND VICINITY MAPS SEE DRAWING NO. 0/5.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLAN SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR RIGHT OF WAY MONUMENT PLAN SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.

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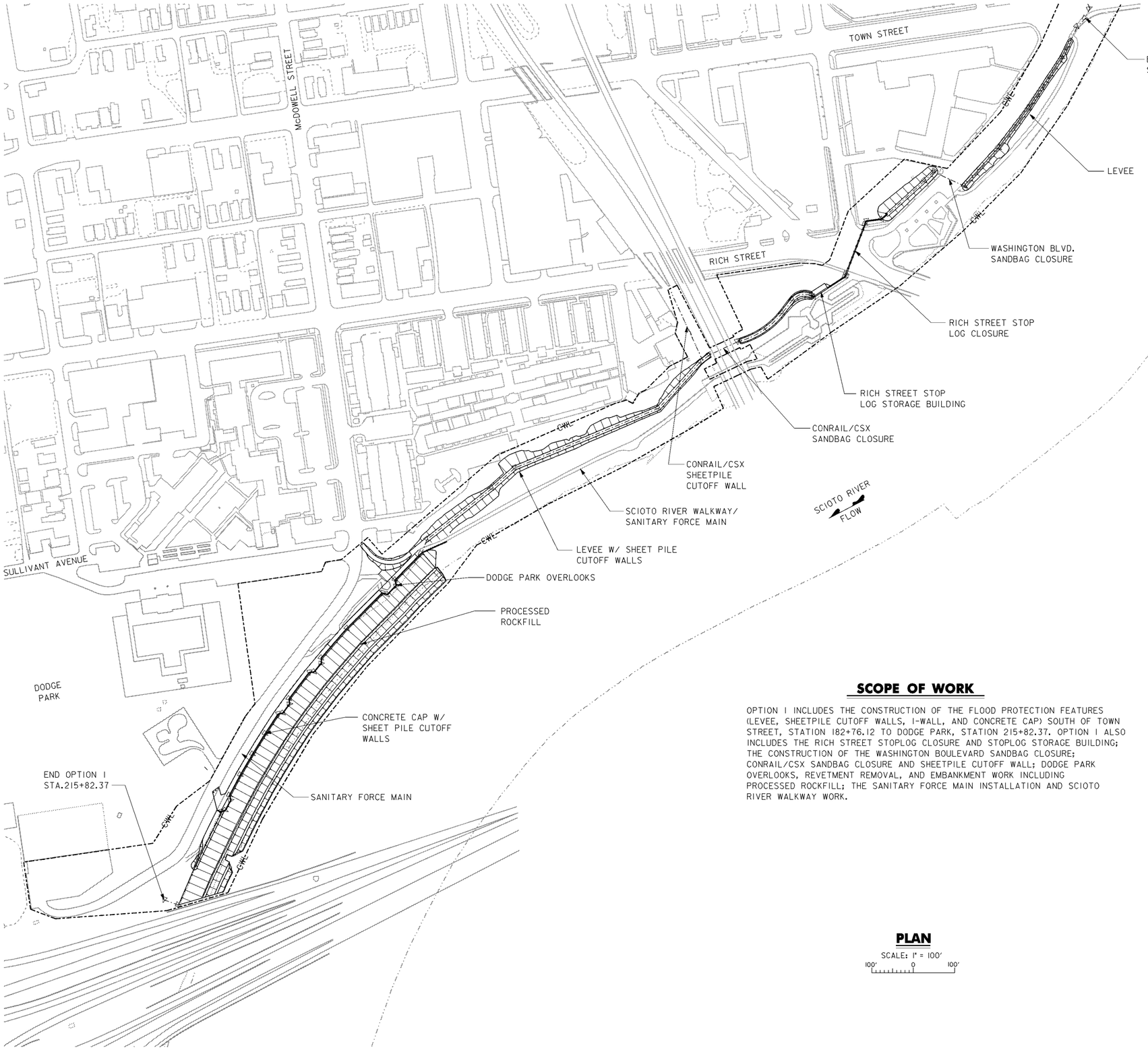
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

BASE BID SITE PLAN

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 0/7
FILENAME: 00a5pl02.dgn
PRN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 100'
100' 0 100'

RELATED DRAWINGS OPTION 1

0/1 THRU 0/6
6/3 THRU 6/5
6/8 THRU 6/10
11/1 AND 11/4 THRU 11/7
11/9 AND 11/10
15/2 AND 15/12
16/7 THRU 16/13
16/25 THRU 16/36
20.1/1, 20.1/2, 20.1/7 AND 20.1/11 THRU 20.1/14
20.2/4 THRU 20.2/28A
20.3/2
20.4/1 THRU 20.4/16
20.5/1 THRU 20.5/6
92/1 THRU 92/6
107/3 AND 107/4
10/1 THRU 10/18
14/1 THRU 14/16

SCOPE OF WORK

OPTION I INCLUDES THE CONSTRUCTION OF THE FLOOD PROTECTION FEATURES (LEVEE, SHEETPILE CUTOFF WALLS, I-WALL, AND CONCRETE CAP) SOUTH OF TOWN STREET, STATION 182+76.12 TO DODGE PARK, STATION 215+82.37. OPTION I ALSO INCLUDES THE RICH STREET STOPLOG CLOSURE AND STOPLOG STORAGE BUILDING; THE CONSTRUCTION OF THE WASHINGTON BOULEVARD SANDBAG CLOSURE; CONRAIL/CSX SANDBAG CLOSURE AND SHEETPILE CUTOFF WALL; DODGE PARK OVERLOOKS, REVETMENT REMOVAL, AND EMBANKMENT WORK INCLUDING PROCESSED ROCKFILL; THE SANITARY FORCE MAIN INSTALLATION AND SCIOTO RIVER WALKWAY WORK.

NOTES

1. FOR PROJECT LOCATION AND VICINITY MAPS SEE DRAWING NO. 0/5.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLAN SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR RIGHT OF WAY MONUMENT PLAN SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.

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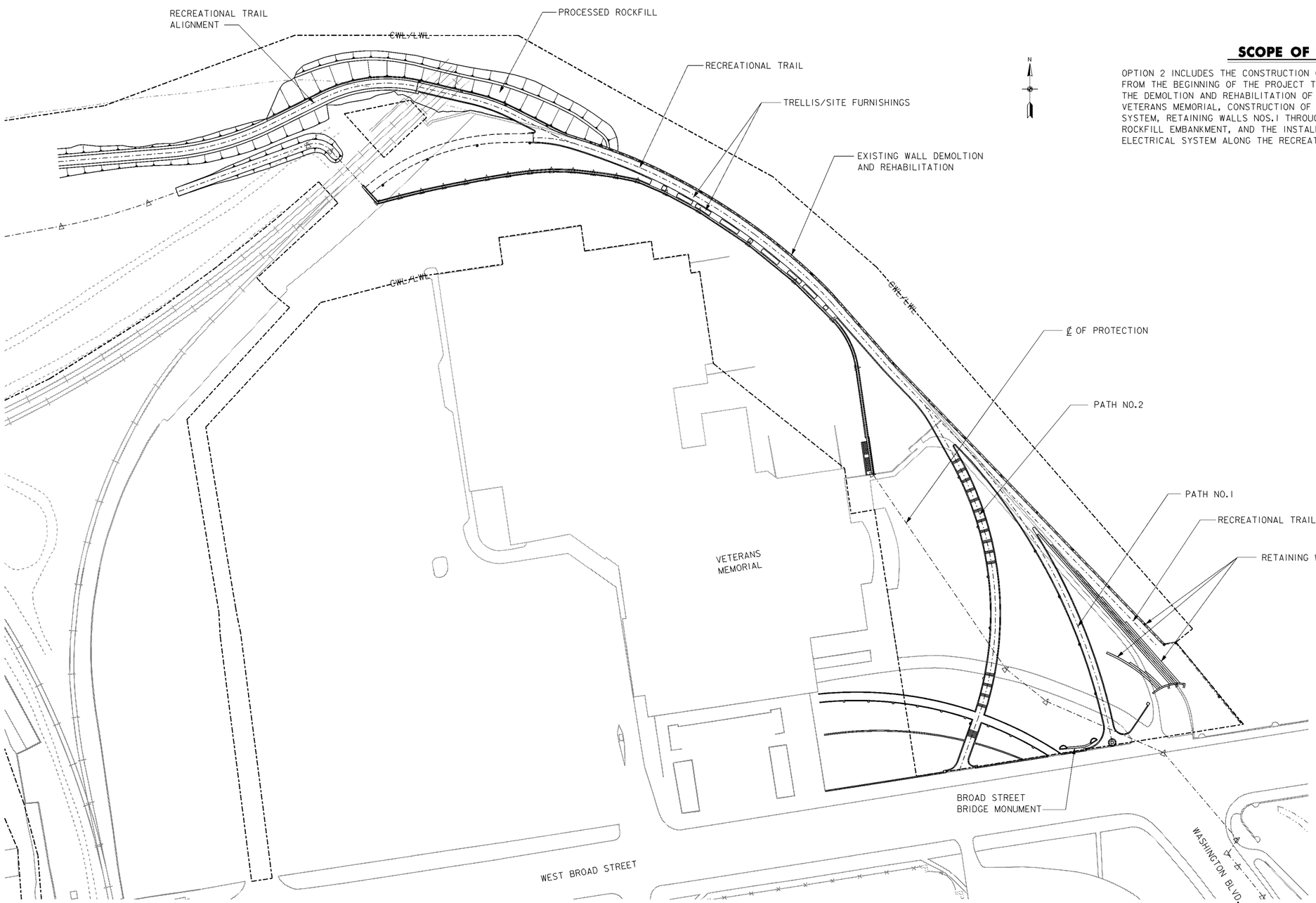
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

OPTION 1
SITE PLAN

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 08
FILENAME: 00a5pl03.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



SCOPE OF WORK

OPTION 2 INCLUDES THE CONSTRUCTION OF THE RECREATIONAL FEATURES FROM THE BEGINNING OF THE PROJECT TO BROAD STREET. THE WORK INCLUDES THE DEMOLTION AND REHABILITATION OF THE EXISTING RETAINING WALL BEHIND VETERANS MEMORIAL, CONSTRUCTION OF THE RECREATIONAL TRAIL AND PATH SYSTEM, RETAINING WALLS NOS.1 THROUGH 3, TRELLIS, RAILING SYSTEM, PROCESSED ROCKFILL EMBANKMENT, AND THE INSTALLATION OF THE SITE FURNISHINGS AND ELECTRICAL SYSTEM ALONG THE RECREATIONAL TRAIL.

RELATED DRAWINGS OPTION 2

0/1 THRU 0/6
6/1 THRU 6/5
6/6 THRU 6/10
11/1 THRU 11/3 AND 11/8
11/11 AND 11/12
16/3 AND 16/4
16/19 THRU 16/21
16/50 THRU 16/55
20.2/29 THRU 20.2/64
20.2/67 THRU 20.2/76
107/1 AND 107/2
10/1 THRU 10/18
14/1 THRU 14/16

NOTES

1. FOR PROJECT LOCATION AND VICINITY MAPS SEE DRAWING NO. 0/5.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLAN SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR RIGHT OF WAY MONUMENT PLAN SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.

PLAN

SCALE: 1" = 50'
50' 0 50'

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PHASE IID

OPTION 2 SITE PLAN

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 09
FILENAME: 00a5pl04.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

SCOPE OF WORK

OPTION 3 INCLUDES ALL LANDSCAPING AND IRRIGATION FOR THE PHASE IID PROJECT. LANDSCAPING AND IRRIGATION WORK IS REQUIRED AT VETERANS MEMORIAL, RICH STREET PARK, AND DODGE PARK.

RELATED DRAWINGS OPTION 3

0/1 THRU 0/6
12/1 THRU 12/11

NOTES

1. FOR PROJECT LOCATION AND VICINITY MAPS SEE DRAWING NO. 0/5.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLAN SEE DRAWING NOS. 6/1 THRU 6/4.

Revisions			
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COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

OPTION 3
SITE PLAN

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 0/10
FILENAME: 00a5pl05.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
3. THE SHADED AREA BOUNDED BY POINTS 351, 352, 353A AND 354A IS OFF-LIMITS TO THE CONTRACTOR. NO CONSTRUCTION ACTIVITIES SHALL OCCUR IN THIS AREA.

PLAN

SCALE: 1" = 50'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

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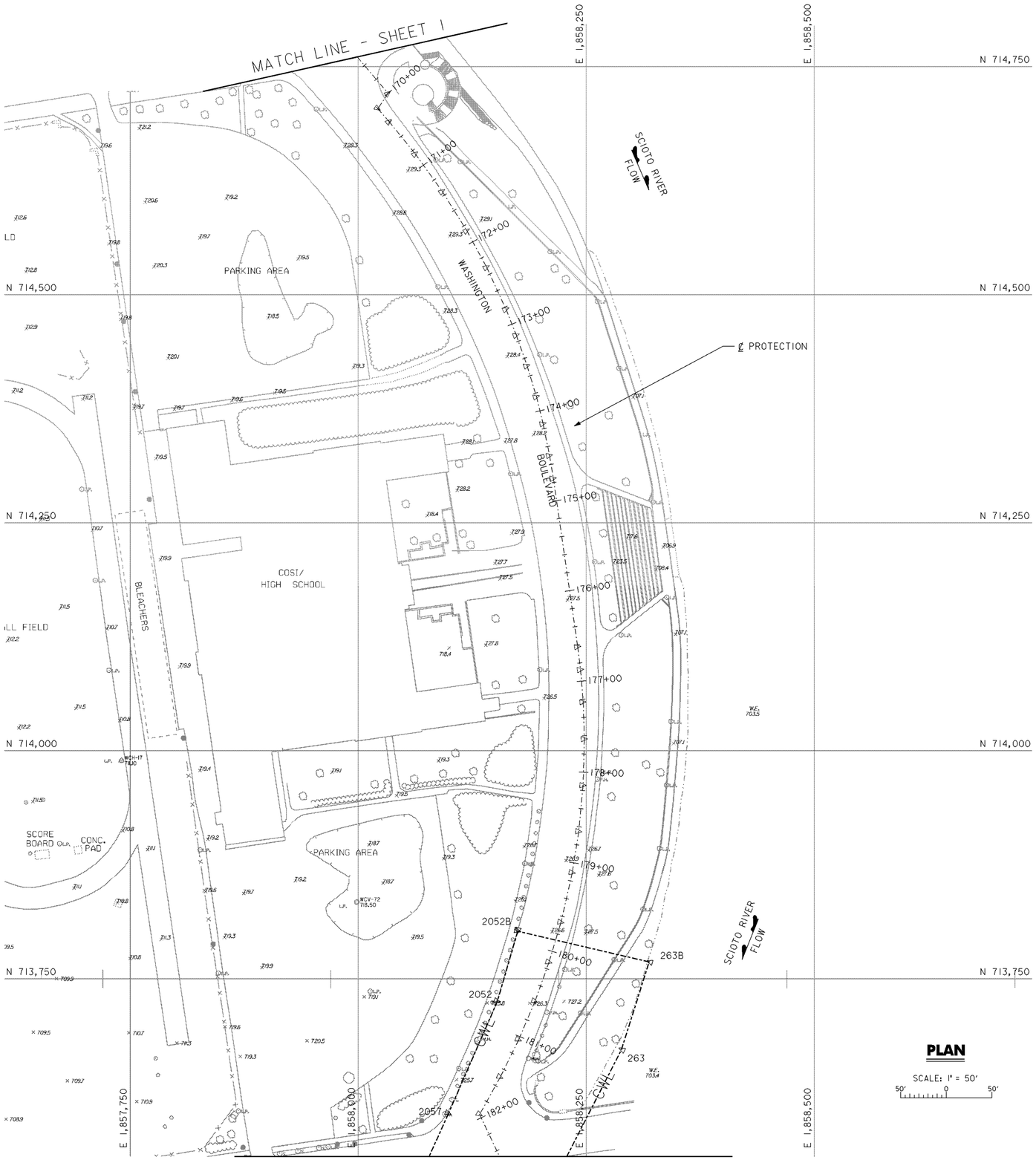
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CWL MONUMENT PLAN (1 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference numbers: 6/1
FILENAME: 00c1mp01.dgn
PEN TABLE:
Sheet 1 of 4

WORK AS CONSTRUCTED



N

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.

PLAN

SCALE: 1" = 50'

50' 0 50'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
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COLUMBUS, OHIO
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PHASE IID

CWL MONUMENT PLAN (2 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 62
FILENAME: 00c1mp02.dgn
PEN TABLE:
Sheet 2 of 4

WORK AS CONSTRUCTED

MATCH LINE - SHEET 2

N 713,500
N 713,250
N 713,000
N 712,750
N 712,500
E 1,857,000
E 1,857,250
E 1,857,500
E 1,857,750
E 1,858,000
E 1,858,250
E 1,858,500

TOWN STREET
BELLE STREET
HEALTH CENTER
BOULEVARD
WASHINGTON
RICH STREET
CHESAPEAKE & OHIO
MAIN STREET WEIR
SCIOTO RIVER FLOW
SCIOTO RIVER FLOW

CWL
℄ PROTECTION

1146A
1148
1149
1150
1152
1155A
1156A
1156B
1156C
1265
1266
1267A
1267B
1267C
1267D
1267E
1267F
1271
1272
1273
1274
1275
1276
1277
2058
2063A
2068
369A
369B
369C
369D
369E
369F
370A
370B
370C
370D
370E
370F
255A
255B
255C
255D
255E
255F
254
255
256
257
258
259
260
261
262

00+00
91+00
92+00
93+00
94+00
95+00
96+00
97+00
98+00
99+00
100+00
101+00
102+00
103+00
104+00
105+00
106+00

MATCH LINE - SHEET 4

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.

PLAN

SCALE: 1" = 50'
50' 0 50'

Revisions			
Symbol	Descriptions	Date	Approved

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COLUMBUS, OHIO

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CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

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SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CWL MONUMENT PLAN (3 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 6/3
FILENAME: 00c1mp03.dgn
PEN TABLE:
Sheet 3 of 4

WORK AS CONSTRUCTED

PHASE IID SHEET 14 OF 256

E 1,855,250 | E 1,855,500 | E 1,855,750 | E 1,856,000 | E 1,856,250 | E 1,856,500 | E 1,856,750

N 712,500 | N 712,250 | N 712,000 | N 711,750 | N 711,500

SULLIVANT AVENUE

DODGE PARK

POOL

SKATEBOARD PARK

CONTRACTOR LAYDOWN AREA

EXISTING DODGE PARK PUMP STATION

MCDONELL STREET

SCIOTO BOULEVARD

SCIOTO RIVER FLOW

MATCH LINE - SHEET 3

℄ PROTECTION

CWL

1278 | 1279 | 1282 | 1285 | 1297 | 1298 | 1303 | 1304 | 1305A | 1305B | 1305C | 1306A | 1306B | 1306C

3000 | 3001 | 3002

316 | 317 | 249A | 250A | 251A | 252 | 253 | 248A

300+00 | 301+00 | 202+00 | 203+00 | 204+00 | 205+00 | 206+00 | 207+00 | 208+00 | 209+00 | 210+00 | 211+00 | 212+00 | 213+00 | 214+00 | 215+00 | 216+37

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.

PLAN

SCALE: 1" = 50'

Revisions			
Symbol	Descriptions	Date	Approved

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CORPS OF ENGINEERS
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SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CWL MONUMENT PLAN (4 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 6/4
FILENAME: 00c1mp04.dgn
PEN TABLE:
Sheet 4 of 4

WORK AS CONSTRUCTED

CWL MONUMENT TABLES

CWL/LWL NORTH OF BROAD STREET

POINT#	EASTING	NORTHING	BEARING	DISTANCE
569	1856540.24700	715544.29500	S 28°19′24.83" W	257.59918
584	1856418.02900	715317.53500	S 24°15′56.44" E	195.38976
583	1856498.32800	715139.40800	S 28°46′57.94" W	71.54873
582	1856463.87800	715076.69900	S 33°38′01.70" E	86.70967
581	1856511.90500	715004.50500	S 19°32′43.55" E	272.93337
580	1856603.21600	714747.29900	S 23°05′56.12" E	40.98697
579	1856619.29600	714709.59800	S 4°08′42.76" E	78.91043
578	1856625.00000	714630.89400	N 81°54′39.12" E	23.33821
577	1856648.10600	714634.17800	N 4°32′56.24" W	68.17476
576	1856642.69900	714702.13800	N 15°02′12.91" W	61.67482
575	1856626.69800	714761.70100	N 19°19′54.30" W	238.41118
574	1856547.77500	714986.67000	N 28°31′05.77" W	90.71945
573	1856504.46200	715066.38200	N 28°46′56.46" E	83.93015
572	1856544.87300	715139.94300	N 24°15′58.51" W	55.29013
155A	1856522.15000	715190.34800	N 64°19′33.95" E	148.60290
155B	1856656.08200	715254.73000	N 57°48′23.23" E	148.60328
155C	1856781.83800	715333.90300	N 53°21′58.88" E	87.84035
155D	1856852.32700	715386.31700	N 51°00′24.77" E	87.84111
155E	1856920.59900	715441.58900	N 48°51′59.42" E	62.70754
300	1856967.82900	715482.83900	S 42°18′19.49" E	33.16533
301	1856990.15200	715458.31100	S 47°11′30.03" W	127.85853
157A	1856896.35100	715371.42500	S 42°48′35.21" E	20.00099
158A	1856909.94300	715356.75200	S 51°17′37.12" E	31.14200
158D	1856934.24500	715337.27800	S 42°30′43.15" W	175.93633
158E	1856815.35700	715207.58900	S 9°23′25.56" E	225.36604
158F	1856852.12800	714985.24300	S 3°28′27.16" E	30.13238
158G	1856853.95400	714955.16600	S 7°20′03.84" E	285.17128
305A	1856890.35900	714672.32800	N 81°03′58.84" E	24.00015
306A	1856914.06800	714676.05500	N 7°19′56.57" W	285.13974
307	1856877.67700	714958.86300	N 11°12′39.98" W	30.01680
308	1856871.84100	714988.30700	N 9°22′21.61" W	213.28131
309	1856837.10700	715198.74100	N 42°41′41.65" E	196.28833
310	1856970.20900	715343.00800	N 75°23′56.20" E	121.86261
310A	1857088.13600	715373.72800	N 81°37′29.69" E	94.06614
2009	1857181.19900	715387.42900	N 8°22′26.77" W	31.24917
2010	1857176.64800	715418.34500	N 81°37′29.83" E	96.26357
2011	1857271.88500	715432.36600	S 8°22′33.54" E	29.88982
2012	1857276.23900	715402.79500	N 81°37′30.46" E	77.92699
2013	1857353.33500	715414.14500	S 8°22′34.80" E	21.22542
2014	1857356.42700	715393.14600	N 81°37′31.07" E	40.28254
2015	1857396.28000	715399.01300	S 8°22′33.62" E	9.72069
2016	1857397.69600	715389.39600	S 8°22′25.05" E	12.27789
2017	1857399.48400	715377.24900	N 80°36′34.93" E	10.06994
2018	1857409.41900	715378.89200	S 8°32′13.84" E	107.80652
2019	1857425.42300	715272.28000	S 51°23′38.11" E	194.35942
2020	1857577.30600	715151.00700	S 8°14′22.99" E	53.14865
2020A	1857584.92300	715098.40700	N 80°20′30.64" E	27.65700
2020B	1857612.18800	715103.04700	S 8°54′00.35" E	312.61298
2020C	1857660.55300	714794.19800	N 80°58′53.94" E	383.63442
314	1858039.44500	714854.33300	N 39°20′41.18" W	123.12745
270	1857961.38400	714949.55300	N 51°03′45.06" E	24.49114
271	1857980.43400	714964.94500	N 41°08′29.67" W	556.29914
1332	1857614.43262	715383.88620	N 48°55′23.27" W	159.65739
1336	1857494.07830	715488.79244	N 61°17′20.40" W	159.73308
1340	1857353.98377	715565.52692	N 60°40′38.20" W	177.35771
1341	1857199.35000	715652.38400	N 89°56′16.69" W	258.62815
273	1856940.72200	715652.66400	S 69°44′00.96" W	235.76040
570	1856719.55700	715571.00000	S 81°31′44.72" W	181.28771

LWL AT CONRAIL EAST RR

POINT#	EASTING	NORTHING	BEARING	DISTANCE
351	1856997.72900	715561.55700	N 78°18′32.84" E	78.16656
352	1857074.27400	715577.39600	S 42°30′28.87" E	27.53320
353A	1857092.87800	715557.09900	S 47°01′11.06" W	67.37256
354A	1857043.58900	715511.16800	N 42°18′21.36" W	68.13363

CWL SOUTH OF COSI

POINT#	EASTING	NORTHING	BEARING	DISTANCE
2052B	1858174.81100	713802.43700	S 16°14′33.99" W	79.95124
2052	1858152.44800	713725.67700	S 23°35′12.85" W	134.32313
2057	1858098.70000	713602.57600	S 24°02′08.64" W	150.67039
2058	1858037.33100	713464.97000	S 30°31′57.95" W	188.77589
2063A	1857941.42700	713302.37000	S 43°24′12.88" W	188.50793
2068	1857811.89700	713165.41300	N 77°42′10.32" W	105.76976
1146A	1857708.55400	713187.94000	S 47°12′54.35" W	184.63001
1148	1857573.05240	713062.53045	S 20°51′16.05" W	126.64632
1149	1857527.96690	712944.18102	S 55°14′49.41" W	22.46166
1150	1857509.51200	712931.37700	N 77°30′56.04" W	17.36561
1151	1857492.55700	712935.13100	N 86°24′52.06" W	19.41200
1152	1857473.18300	712936.34500	N 89°15′29.30" W	17.60948
1265	1857455.57500	712936.57300	S 83°43′31.02" W	13.23931
1266	1857442.41500	712935.12600	S 81°49′50.19" W	189.32421
1267A	1857255.01200	712908.22300	S 25°29′16.45" E	145.85408
1267B	1857317.77600	712776.56400	S 60°44′51.51" W	27.18471
1267C	1857294.05800	712763.28000	S 29°13′22.11" E	4.99583
1267D	1857296.49700	712758.92000	S 64°43′36.83" W	33.63991
1267E	1857266.07700	712744.55800	S 65°35′58.98" W	31.05476
1267F	1857237.79600	712731.72900	N 27°16′05.35" W	170.55998
1155A	1857159.65300	712883.33500	S 63°40′14.33" W	25.00392
1156A	1857137.24300	712872.24500	S 16°30′08.40" E	81.24148
1156B	1857160.32000	712794.35000	S 11°28′09.01" W	27.25393
1156C	1857154.90081	712767.64028	S 27°31′22.44" E	64.85164
1271	1857184.86896	712710.12815	S 62°28′37.51" W	48.43122
1272	1857141.91889	712687.74792	S 45°42′47.49" W	82.65855
1273	1857082.74747	712630.03154	S 66°13′45.20" W	15.96851
1274	1857068.13365	712623.59498	S 30°47′43.29" W	30.17966
1275	1857052.68247	712597.67061	N 62°42′56.85" W	17.81541
1276	1857036.84914	712605.83728	S 73°35′35.61" W	28.40804
1277	1857009.59785	712597.81329	S 66°13′45.24" W	312.88199
1278	1856723.25907	712471.69731	S 49°23′55.34" W	257.78377
1279	1856527.53504	712303.93385	S 49°15′45.88" W	25.12858
1282	1856508.49487	712287.53517	S 48°39′20.38" W	82.48499
316	1856446.56900	712233.04700	N 40°14′03.89" W	53.61221
317	1856411.94000	712273.97500	S 49°45′57.59" W	82.89224
1285	1856348.65900	712220.43400	S 81°28′05.34" W	39.14823
3000	1856309.94400	712214.62600	S 21°50′07.97" W	24.93388
3001	1856300.67000	712191.48100	S 81°47′45.31" W	204.38062
3002	1856098.38100	712162.31600	S 8°08′45.65" E	292.79525
1297	1856139.86900	711872.47500	S 37°21′16.64" W	40.00023
1298	1856115.59900	711840.67900	S 28°47′09.58" W	176.72488
1303	1856030.49900	711685.79300	S 52°41′47.03" W	100.69329
1304	1855950.40400	711624.76900	S 32°26′13.12" W	106.34232
1305A	1855893.36500	711535.01800	S 81°40′28.35" W	315.72728
1305B	1855580.96500	711489.30200	S 8°24′16.83" E	114.67961
1305C	1855597.72700	711375.85400	S 68°58′46.45" E	64.78101
1306A	1855658.19700	711352.61700	N 85°48′11.34" E	269.88369
1306B	1855927.35700	711372.36800	N 73°36′44.34" E	153.12162
1306C	1856074.25800	711415.56900	N 25°11′00.87" E	196.70057
248A	1856157.95800	711593.57300	N 30°43′48.27" E	237.49390
249A	1856279.31600	711797.71900	N 38°34′17.63" E	209.99961
250A	1856410.24900	711961.90300	N 44°15′24.39" E	282.32270
251A	1856607.27500	712164.10800	N 36°39′32.28" E	114.03217
252	1856675.35800	712255.58500	N 60°07′25.38" E	200.00046
253	1856848.77900	712355.21100	N 63°38′19.62" E	200.00055
254	1857027.98200	712444.01700	N 60°23′50.62" E	199.99943
255	1857201.87600	712542.81300	N 57°55′08.23" E	81.95349
255A	1857271.31500	712586.34000	N 24°15′55.95" W	57.30156
255B	1857247.76600	712638.57900	N 65°01′46.02" E	62.88961
255C	1857304.77700	712665.12800	N 64°54′28.18" E	37.19855
255D	1857338.46500	712680.90300	N 76°46′37.92" E	23.88319
255E	1857361.71500	712686.36600	S 29°06′30.91" E	34.53476
255F	1857378.51500	712656.19300	N 53°25′27.47" E	189.96470
257	1857531.07000	712769.39000	N 55°59′04.42" E	199.99955
258	1857696.84700	712881.27300	N 49°01′54.00" E	199.99945
259	1857847.86100	713012.40100	N 44°58′46.35" E	200.00022

CWL SOUTH OF COSI

POINT#	EASTING	NORTHING	BEARING	DISTANCE
260	1857989.23200	713153.87300	N 34°38′11.68" E	200.00032
261	1858102.90600	713318.42800	N 28°13′02.92" E	200.00017
262	1858197.47000	713494.66000	N 27°04′30.79" E	200.00006
263	1858288.50200	713672.74200	N 17°33′50.61" E	100.63562
263B	1858318.87100	713768.68600	N 76°48′51.53" W	147.96085

LWL AT CONRAIL/CSX RR

POINT#	EASTING	NORTHING	BEARING	DISTANCE
369C	1857225.21400	712681.04000	S 28°10′24.18" E	28.05940
369D	1857238.46200	712656.30500	N 65°09′10.09" E	31.43267
369E	1857266.98500	712669.51300	N 64°23′07.04" E	32.05979
369F	1857295.89400	712683.37300	N 64°23′11.57" E	36.59517
370A	1857328.89300	712699.19300	N 76°45′16.29" E	24.49770
370B	1857352.73900	712704.80600	N 25°58′35.19" W	39.35374
370C	1857335.50200	712740.18400	S 61°33′15.84" W	25.15724
370D	1857313.38200	712728.20100	N 28°27′27.48" W	4.99676
370E	1857311.00100	712732.59400	S 64°43′44.82" W	35.14654
370F	1857279.21800	712717.59000	S 64°44′06.00" W	31.55770
369A	1857250.67900	712704.12100	S 25°25′24.55" E	10.01152
369B	1857254.97700	712695.07900	S 64°44′49.47" W	32.90790

NOTES

1. FOR SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION PLAN SEE DRAWING NOS. 11/2 THRU 11/7.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CWL MONUMENT TABLES

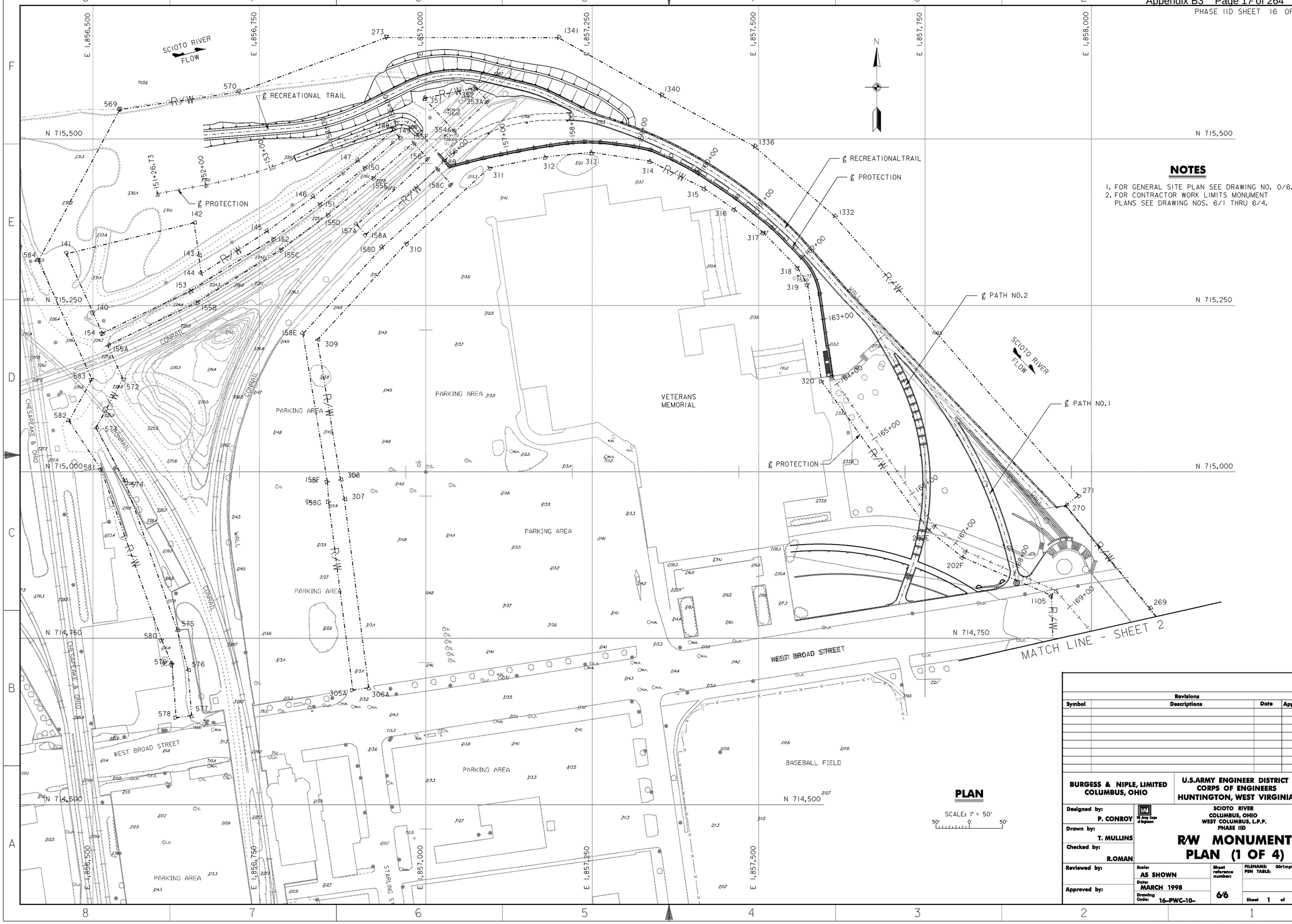
Scale: NONE
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 6/5
FILENAME: 00c1mt01.dgn
PIN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

PHASE IID SHEET 16 OF 256

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/4.



PLAN

SCALE: 1" = 50'

Revisions			
Symbol	Descriptions	Date	Approved

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COLUMBUS, OHIO

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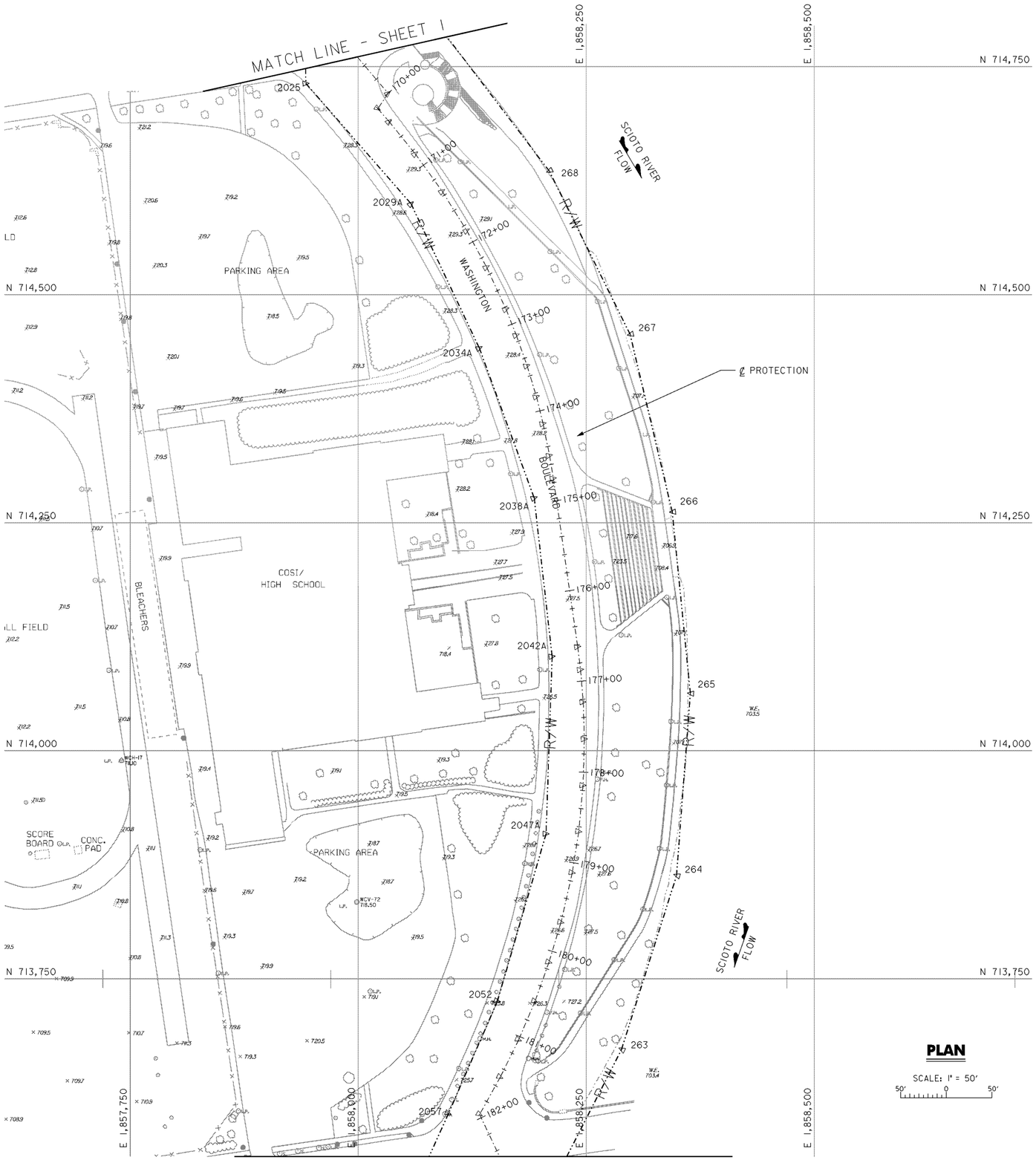
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

R/W MONUMENT PLAN (1 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference numbers: 6/6
FILENAME: 00r1mp01.dgn
PEN TABLE:
Sheet 1 of 4

WORK AS CONSTRUCTED



NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/4.

PLAN

SCALE: 1" = 50'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

R/W MONUMENT PLAN (2 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 6/7
FILENAME: 00r1mp02.dgn
PEN TABLE:
Sheet 2 of 4

WORK AS CONSTRUCTED

MATCH LINE - SHEET 2

N 713,500 E 1,857,000 E 1,857,250 E 1,857,500 E 1,857,750 E 1,858,000 E 1,858,250 E 1,858,500

N 713,250 N 713,000 N 712,750 N 712,500

TOWN STREET
HEALTH CENTER
BELLE STREET
BOULEVARD
WASHINGTON
SCIOTO RIVER FLOW
℄ PROTECTION
R/W
CHESAPEAKE & OHIO
RAILROAD
MAIN STREET WEIR
SCIOTO RIVER FLOW
MATCH LINE - SHEET 4

1146A 1148 1149 1150 1152 1155A 1156A 1265 1266 1267A 1267B 1267C 1267D 1267E 1267F 1269A 1269B 1269C 1269D 1269E 1269F 1270 1271 1272 1273 1274 1275 1276 1277 2058 2063A 2068 255A 255B 255C 255D 255E 255F 369A 369B 369C 369D 369E 369F 370A 370B 370C 370D 370E 370F

254 255 256 257 258 259 260 261 262

181+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/4.

PLAN

SCALE: 1" = 50'
50' 0 50'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

R/W MONUMENT PLAN (3 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 6/8
FILENAME: 00r1mp03.dgn
PEN TABLE:
Sheet 3 of 4

WORK AS CONSTRUCTED

E 1,855,250 | E 1,855,500 | E 1,855,750 | E 1,856,000 | E 1,856,250 | E 1,856,500 | E 1,856,750

N 712,500 | N 712,250 | N 712,000 | N 711,750 | N 711,500

SULLIVANT AVENUE
McDOWELL STREET
POOL
DODGE PARK
SKATEBOARD PARK
EXISTING DODGE PARK PUMP STATION
SCIOTO BOULEVARD
SCIOTO RIVER FLOW
SCIOTO RIVER FLOW
MATCH LINE - SHEET 3
℄ PROTECTION
R/W
R/W
R/W
R/W
W.E. 696.9

1278 1279 1282 1285 1286 1287 1288 1298 1303 1304 1305A 1305B 1305C 1306A 1306B 1306C

316 317 249A 250A 251A 252 253 248A

200+00 201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00

215+82.37

N

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/4.

PLAN

SCALE: 1" = 50'
50' 0 50'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

R/W MONUMENT PLAN (4 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 69
FILENAME: PEN TABLE: 00r1mp04.dgn
Sheet 4 of 4

WORK AS CONSTRUCTED

RIGHT OF WAY MONUMENT TABLES

OUTER R/W

POINT#	EASTING	NORTHING	BEARING	DISTANCE
569	1856540.24700	715544.29500	S 28°19′24.83" W	257.59918
584	1856418.02900	715317.53500	S 24°15′56.44" E	195.38976
583	1856498.32800	715139.40800	S 28°46′57.94" W	71.54873
582	1856463.87800	715076.69900	S 33°38′01.70" E	86.70967
581	1856511.90500	715004.50500	S 19°32′43.55" E	272.93337
580	1856603.21600	714747.29900	S 23°17′26.48" E	39.61849
579	1856618.88100	714710.90900	S 4°22′23.08" E	80.24863
578	1856625.00000	714630.89400	N 81°54′39.12" E	23.33821
577	1856648.10600	714634.17800	N 4°32′56.24" W	68.17476
576	1856642.69900	714702.13800	N 15°02′12.91" W	61.67482
575	1856626.69800	714761.70100	N 19°19′54.30" W	238.41118
574	1856547.77500	714986.67000	N 28°31′05.77" W	90.71945
573	1856504.46200	715066.38200	N 28°46′56.46" E	83.93015
572	1856544.87300	715139.94300	N 24°15′58.51" W	55.29013
155A	1856522.15000	715190.34800	N 64°19′33.95" E	148.60290
155B	1856656.08200	715254.73000	N 57°48′23.23" E	148.60328
155C	1856781.83800	715333.90300	N 53°21′58.88" E	87.84035
155D	1856852.32700	715386.31700	N 51°00′24.77" E	87.84111
155E	1856920.59900	715441.58900	N 48°51′59.63" E	80.71116
155F	1856981.38900	715494.68200	S 42°18′23.88" E	32.63863
156	1857003.35800	715470.54400	S 47°11′29.46" W	145.85978
157A	1856896.35100	715371.42500	S 42°48′35.21" E	20.00099
158A	1856909.94300	715356.75200	N 47°11′26.95" E	145.68422
158B	1857016.82000	715455.75300	S 42°18′23.59" E	31.90030
158C	1857038.29200	715432.16100	S 47°38′15.18" W	140.81393
158D	1856934.24500	715337.27800	S 42°30′43.15" W	175.93633
158E	1856815.35700	715207.58900	S 9°23′25.56" E	225.36604
158F	1856852.12800	714985.24300	S 3°28′27.16" E	30.13238
158G	1856853.95400	714955.16600	S 7°20′03.84" E	285.17128
305A	1856890.35900	714672.32800	N 81°03′58.84" E	24.00015
306A	1856914.06800	714676.05500	N 7°19′56.57" W	285.13974
307	1856877.67700	714958.86300	N 11°12′39.98" W	30.01680
308	1856871.84100	714988.30700	N 9°22′21.61" W	213.28131
309	1856837.10700	715198.74100	N 42°41′41.77" E	196.29116
310	1856970.21100	715343.01000	N 47°38′05.11" E	169.05137
311	1857095.11700	715456.92600	N 78°52′53.05" E	85.09625
312	1857178.61600	715473.33600	N 84°18′59.64" E	70.32068
313	1857248.59100	715480.30000	S 81°25′22.21" E	88.72127
314	1857336.32000	715467.06800	S 63°30′09.23" E	91.70747
315	1857418.39400	715426.15200	S 55°05′22.78" E	54.76382
316	1857463.30300	715394.81100	S 51°16′38.38" E	56.22399
317	1857507.16800	715359.64000	S 44°15′58.48" E	73.93478
318	1857558.77400	715306.69500	S 30°32′30.48" E	29.29550
319	1857573.66100	715281.46400	S 8°11′08.40" E	146.70464
320	1857594.54900	715136.25400	S 35°46′10.72" E	275.61902
202E	1857755.65600	714912.62400	S 51°18′51.83" E	64.52320
202F	1857806.02200	714872.29400	S 66°41′26.64" E	145.80963
1105	1857939.93100	714814.59800	S 1°50′27.14" E	83.05386
2025	1857942.59900	714731.58700	S 41°07′56.84" E	174.99946
2029A	1858057.71400	714599.77900	S 25°20′58.85" E	175.00051
2034A	1858132.63900	714441.62900	S 20°07′18.35" E	175.00039
2038A	1858192.84200	714277.31000	S 6°26′23.41" E	175.00022
2042A	1858212.47000	714103.41400	S 1°56′45.97" E	194.49718
2047A	1858205.86500	713909.02900	S 16°14′33.83" W	190.97469
2052	1858152.44800	713725.67700	S 23°35′12.85" W	134.32313
2057	1858098.70000	713602.57600	S 24°02′08.64" W	150.67039
2058	1858037.33100	713464.97000	S 30°31′57.95" W	188.77589
2063A	1857941.42700	713302.37000	S 43°24′12.88" W	188.50793
2068	1857811.89700	713165.41300	N 77°42′10.32" W	105.76976
1146A	1857708.55400	713187.94000	S 47°12′54.35" W	184.63001
1148	1857573.05240	713062.53045	S 20°51′16.05" W	126.64632
1149	1857527.96690	712944.18102	S 55°14′49.41" W	22.46166
1150	1857509.51200	712931.37700	N 77°30′56.04" W	17.36561
1151	1857492.55700	712935.13100	N 86°24′52.06" W	19.41200
1152	1857473.18300	712936.34500	N 89°15′29.30" W	17.60948
1265	1857455.57500	712936.57300	S 83°43′31.02" W	13.23931
1266	1857442.41500	712935.12600	S 81°49′50.19" W	189.32421
1267A	1857255.01200	712908.22300	S 25°29′16.45" E	145.85408
1267B	1857317.77600	712776.56400	S 60°44′51.51" W	27.18471

OUTER R/W

POINT#	EASTING	NORTHING	BEARING	DISTANCE
1267C	1857294.05800	712763.28000	S 29°13′22.11" E	4.99583
1267D	1857296.49700	712758.92000	S 64°43′36.83" W	33.63991
1267E	1857266.07700	712744.55800	S 65°35′58.98" W	31.05476
1267F	1857237.79600	712731.72900	N 27°16′05.35" W	170.55998
1155A	1857159.65300	712883.33500	S 63°40′14.33" W	25.00392
1156A	1857137.24300	712872.24500	S 16°22′17.38" E	168.96792
1271	1857184.86900	712710.12800	S 62°28′38.14" W	48.43119
1272	1857141.91889	712687.74792	S 45°42′47.49" W	82.65855
1273	1857082.74747	712630.03154	S 66°13′45.20" W	15.96851
1274	1857068.13365	712623.59498	S 30°47′43.29" W	30.17966
1275	1857052.68247	712597.67061	N 62°42′56.85" W	17.81541
1276	1857036.84914	712605.83728	S 73°35′35.61" W	28.40804
1277	1857009.59785	712597.81329	S 66°13′45.24" W	312.88199
1278	1856723.25907	712471.69731	S 49°23′55.34" W	257.78377
1279	1856527.53504	712303.93385	S 49°15′45.88" W	25.12858
1282	1856508.49487	712287.53517	S 48°39′20.38" W	82.48499
316	1856446.56900	712233.04700	N 40°14′03.89" W	53.61221
317	1856411.94000	712273.97500	S 49°45′57.59" W	82.89224
1285	1856348.65900	712220.43400	S 53°02′05.68" E	11.79722
1286	1856358.08500	712213.34000	S 31°59′52.90" E	15.68627
1287	1856366.39700	712200.03700	S 12°58′13.91" W	32.09180
1288	1856359.19400	712168.76400	S 36°35′34.70" W	408.62977
1298	1856115.59900	711840.67900	S 28°47′09.58" W	176.72488
1303	1856030.49900	711685.79300	S 52°41′47.03" W	100.69329
1304	1855950.40400	711624.76900	S 32°26′13.12" W	106.34232
1305A	1855893.36500	711535.01800	S 81°40′28.35" W	315.72728
1305B	1855580.96500	711489.30200	S 8°24′16.83" E	114.67961
1305C	1855597.72700	711375.85400	S 68°58′46.45" E	64.78101
1306A	1855658.19700	711352.61700	N 85°48′11.34" E	269.88369
1306B	1855927.35700	711372.36800	N 73°36′44.34" E	153.12162
1306C	1856074.25800	711415.56900	N 25°11′00.87" E	196.70057
248A	1856157.95800	711593.57300	N 30°43′48.27" E	237.49390
249A	1856279.31600	711797.71900	N 38°34′17.63" E	209.99961
250A	1856410.24900	711961.90300	N 44°15′24.39" E	282.32270
251A	1856607.27500	712164.10800	N 36°39′32.28" E	114.03217
252	1856675.35800	712255.58500	N 60°07′25.38" E	200.00046
253	1856848.77900	712355.21100	N 63°38′19.62" E	200.00055
254	1857027.98200	712444.01700	N 60°23′50.62" E	199.99943
255	1857201.87600	712542.81300	N 57°55′08.23" E	81.95349
255A	1857271.31500	712586.34000	N 24°15′55.95" W	57.30156
255B	1857247.76600	712638.57900	N 65°01′46.02" E	62.88961
255C	1857304.77700	712665.12800	N 64°54′28.18" E	37.19855
255D	1857338.46500	712680.90300	N 76°46′37.92" E	23.88319
255E	1857361.71500	712686.36600	S 29°06′30.91" E	34.53476
255F	1857378.51500	712656.19300	N 53°25′27.47" E	189.96470
257	1857531.07000	712769.39000	N 55°59′04.42" E	199.99955
258	1857696.84700	712881.27300	N 49°01′54.00" E	199.99945
259	1857847.86100	713012.40100	N 44°58′46.35" E	200.00022
260	1857989.23200	713153.87300	N 34°38′11.68" E	200.00032
261	1858102.90600	713318.42800	N 28°13′02.92" E	200.00017
262	1858197.47000	713494.66000	N 27°04′30.79" E	200.00006
263	1858288.50200	713672.74200	N 17°33′50.25" E	199.99986
264	1858348.85600	713863.41800	N 4°20′21.93" E	200.00034
265	1858363.98900	714062.84500	N 5°40′39.20" W	200.00012
266	1858344.20300	714261.86400	N 13°21′22.37" W	200.00047
267	1858298.00200	714456.45500	N 26°21′10.86" W	199.99976
268	1858209.22200	714635.67000	N 37°14′36.90" W	200.00005
269	1858088.18100	714794.88400	N 39°20′41.12" W	199.99995
270	1857961.38400	714949.55300	N 51°03′45.06" E	24.49114
271	1857980.43400	714964.94500	N 41°08′29.67" W	556.29914
1332	1857614.43262	715383.88620	N 48°55′23.27" W	159.65739
1336	1857494.07830	715488.79244	N 61°17′20.40" W	159.73308
1340	1857353.98377	715565.52692	N 60°40′38.20" W	177.35771
1341	1857199.35000	715652.38400	N 89°56′16.69" W	258.62915
273	1856940.72100	715652.66400	S 69°44′00.66" W	235.75946
570	1856719.55700	715571.00000	S 81°31′44.72" W	181.28771

R/W AT CONRAIL EAST RR

POINT#	EASTING	NORTHING	BEARING	DISTANCE
351	1856997.72900	715561.55700	N 78°18′32.84" E	78.16656
352	1857074.27400	715577.39600	S 42°30′28.87" E	27.53320
353A	1857092.87800	715557.09900	S 47°01′11.06" W	67.37256
354A	1857043.58900	715511.16800	N 42°18′21.36" W	68.13363

R/W WEST OF CONRAIL EAST RR BRIDGE

POINT#	EASTING	NORTHING	BEARING	DISTANCE
154	1856513.92600	715208.58900	N 64°20′51.85" E	146.65235
153	1856646.12400	715272.07600	N 57°48′48.51" E	146.65165
152	1856770.23800	715350.19400	N 53°22′01.24" E	87.01714
151	1856840.06700	715402.11600	N 51°00′24.53" E	87.01775
150	1856907.69900	715456.87000	N 48°51′59.82" E	69.96201
149	1856960.39300	715502.89200	N 42°18′29.91" W	14.13864
148	1856950.87600	715513.34800	S 48°58′21.89" W	69.43290
147	1856898.49600	715467.77100	S 51°00′24.56" W	86.42974
146	1856831.32100	715413.38700	S 53°22′00.82" W	86.43034
145	1856761.96300	715361.81500	S 57°12′41.54" W	118.34052
144	1856662.47700	715297.72900	N 6°55′40.11" W	27.85638
143	1856659.11700	715325.38200	N 8°26′58.14" W	49.59936
142	1856651.82900	715374.44300	S 76°19′08.64" W	197.23497
141	1856460.19000	715327.79400	S 24°15′56.96" E	96.94854
140	1856500.03300	715239.41100	S 24°15′53.96" E	33.80886

R/W WEST OF CONRAIL/CSX RR

POINT#	EASTING	NORTHING	BEARING	DISTANCE
369C	1857225.21400	712681.04000	S 28°10′24.18" E	28.05940
369D	1857238.46200	712656.30500	N 65°09′10.09" E	31.43267
369E	1857266.98500	712669.51300	N 64°23′07.04" E	32.05979
369F	1857295.89400	712683.37300	N 64°23′11.57" E	36.59517
370A	1857328.89300	712699.19300	N 76°45′16.29" E	24.49770
370B	1857352.73900	712704.80600	N 25°58′35.19" W	39.35374
370C	1857335.50200	712740.18400	S 61°33′15.84" W	25.15724
370D	1857313.38200	712728.20100	N 28°27′27.48" W	4.99676
370E	1857311.00100	712732.59400	S 64°43′44.82" W	35.14654
370F	1857279.21800	712717.59000	S 64°44′06.00" W	31.55770
369A	1857250.67900	712704.12100	S 25°25′24.55" E	10.01152
369B	1857254.97700	712695.07900	S 64°44′49.47" W	32.90790

NOTES

1. FOR SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION PLAN SEE DRAWING NOS. 11/2 THRU 11/7.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

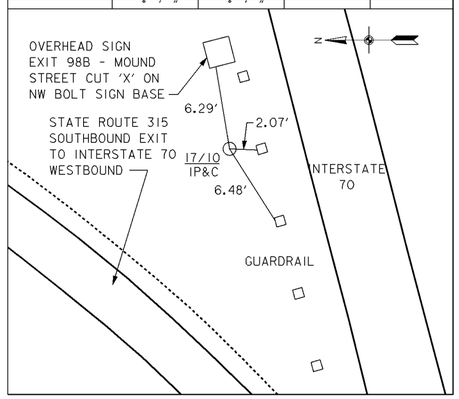
R/W MONUMENT TABLES

Scale: NONE
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 6/10
FILENAME: 00r1mt01.dgn
PIN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

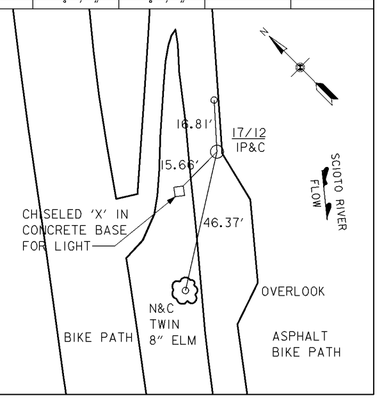
COUNTRY	TYPE OF MARK	STATION
U.S.A.	IP&C	17/10
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)
FRANKLIN COUNTY		
LATITUDE	LONGITUDE	DATUM 1927 NGS
ELEVATION 746.99 TRIG (FT) (M)		
(NORTHING) (EASTING) (FT) (M) 710979.23	(EASTING) (NORTHING) (FT) (M) 1854770.44	GRID AND ZONE OHIO/SOUTH
ESTABLISHED BY (AGENCY) C.S.C.		
(NORTHING) (EASTING) (FT) (M)	(EASTING) (NORTHING) (FT) (M)	GRID AND ZONE
DATE	ORDER	
TO OBTAIN GRID AZIMUTH ADD ° ′ ″	TO THE GEODETIC AZIMUTH	
TO OBTAIN GRID AZ. (ADD/SUB) ° ′ ″	TO THE GEODETIC AZIMUTH	

OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		



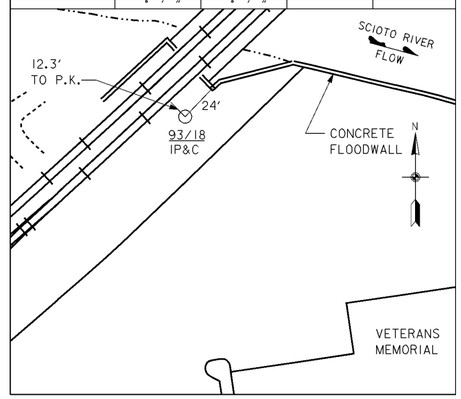
COUNTRY	TYPE OF MARK	STATION
U.S.A.	IP&C	17/12
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)
FRANKLIN COUNTY		
LATITUDE	LONGITUDE	DATUM 1927 NGS
ELEVATION 721.98 TRIG (FT) (M)		
(NORTHING) (EASTING) (FT) (M) 711989.06	(EASTING) (NORTHING) (FT) (M) 1856303.00	GRID AND ZONE OHIO/SOUTH
ESTABLISHED BY (AGENCY) C.S.C.		
(NORTHING) (EASTING) (FT) (M)	(EASTING) (NORTHING) (FT) (M)	GRID AND ZONE
DATE	ORDER	
TO OBTAIN GRID AZIMUTH ADD ° ′ ″	TO THE GEODETIC AZIMUTH	
TO OBTAIN GRID AZ. (ADD/SUB) ° ′ ″	TO THE GEODETIC AZIMUTH	

OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		



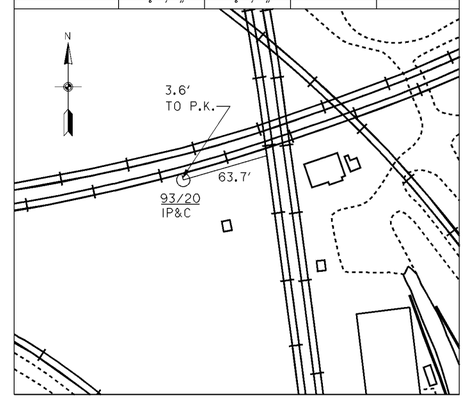
COUNTRY	TYPE OF MARK	STATION
U.S.A.	IP&C	93/18
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)
FRANKLIN COUNTY	93/18	
LATITUDE	LONGITUDE	DATUM 1927 NGS
ELEVATION 727.63 (FT) (M)		
(NORTHING) (EASTING) (FT) (M) 715531.0783	(EASTING) (NORTHING) (FT) (M) 1857077.9577	GRID AND ZONE OHIO/SOUTH
ESTABLISHED BY (AGENCY) P.E.H. ENGINEERS		
(NORTHING) (EASTING) (FT) (M)	(EASTING) (NORTHING) (FT) (M)	GRID AND ZONE
DATE 1/90	ORDER TRIG.	
TO OBTAIN GRID AZIMUTH ADD ° ′ ″	TO THE GEODETIC AZIMUTH	
TO OBTAIN GRID AZ. (ADD/SUB) ° ′ ″	TO THE GEODETIC AZIMUTH	

OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
64/25	S44°50'53"W	° ′ ″		491.14
93/20	S59°25'14"W	° ′ ″		851.22
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		



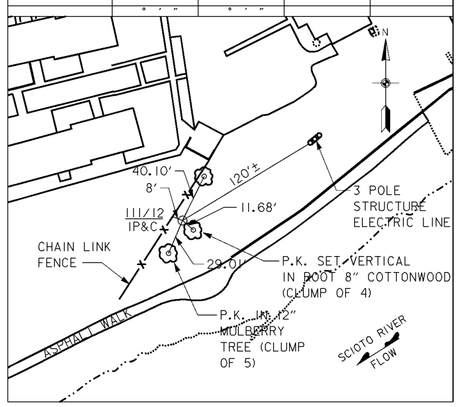
COUNTRY	TYPE OF MARK	STATION
U.S.A.	IP&C	93/20
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)
FRANKLIN COUNTY	93/20	
LATITUDE	LONGITUDE	DATUM 1927 NGS
ELEVATION 726.11 T (FT) (M)		
(NORTHING) (EASTING) (FT) (M) 715098.0372	(EASTING) (NORTHING) (FT) (M) 1856345.1212	GRID AND ZONE OHIO/SOUTH
ESTABLISHED BY (AGENCY) P.E.H. ENGINEERS		
(NORTHING) (EASTING) (FT) (M)	(EASTING) (NORTHING) (FT) (M)	GRID AND ZONE
DATE 1/90	ORDER TRIG.	
TO OBTAIN GRID AZIMUTH ADD ° ′ ″	TO THE GEODETIC AZIMUTH	
TO OBTAIN GRID AZ. (ADD/SUB) ° ′ ″	TO THE GEODETIC AZIMUTH	

OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
93/18	N59°25'14"E	° ′ ″		851.22
64/24	S85°23'04"W	° ′ ″		683.77
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		



COUNTRY	TYPE OF MARK	STATION
U.S.A.	IP&C	111/12 (354)
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)
FRANKLIN COUNTY	111/12	
LATITUDE	LONGITUDE	DATUM 1927 NGS
ELEVATION 722.3 (FT) (M)		
(NORTHING) (EASTING) (FT) (M) 712548.780	(EASTING) (NORTHING) (FT) (M) 1857030.481	GRID AND ZONE OHIO/SOUTH
ESTABLISHED BY (AGENCY) DLA. INC.		
(NORTHING) (EASTING) (FT) (M)	(EASTING) (NORTHING) (FT) (M)	GRID AND ZONE
DATE 3/91	ORDER 3RD.	
TO OBTAIN GRID AZIMUTH ADD ° ′ ″	TO THE GEODETIC AZIMUTH	
TO OBTAIN GRID AZ. (ADD/SUB) ° ′ ″	TO THE GEODETIC AZIMUTH	

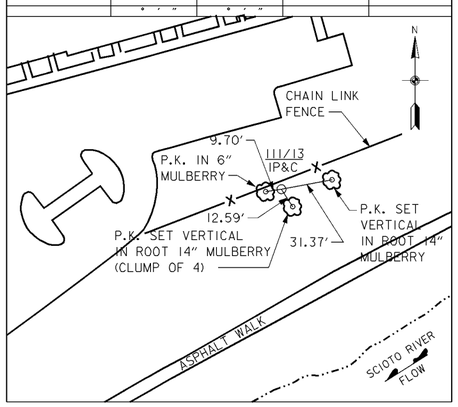
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD DISTANCE (METERS)	GRID DISTANCE (METERS) (FEET)
111/11	S60°19'00"W	° ′ ″		348.052
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		



LEVELMAN : K. ELLIOTT	PROJECT NO. 19/0
DATE : FEB.12, 1990	DESC. WEST COLUMBUS BORING LOCATION
BOOK NO. : CEN-S 95 V	
COMPUTED BY : K. ELLIOTT	
CHECKED BY : R. TANNO	VERTICAL DATUM : 1929 NGS
T.B.M. : 95/8	LOCATION : 95/8
	BRASS DISK SET IN CONCRETE OVERLOOK TO
ELEV. : 721.840	THE SCIOTO RIVER. SOUTH-EAST SIDE OF
	SUNSHINE PARK AND 300' SOUTH OF SULLIVANT
DESC. : BRASS DISK	AVE.
QUAD. : S.W. COLUMBUS	
COOR. : N. = 711,970.0	
E. = 1,856,280.0	TOPO SHEET NO. : 12

COUNTRY	TYPE OF MARK	STATION
U.S.A.	IP&C	111/13 (355)
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)
FRANKLIN COUNTY	111/13	
LATITUDE	LONGITUDE	DATUM 1927 NGS
ELEVATION 721.5 (FT) (M)		
(NORTHING) (EASTING) (FT) (M) 712416.204	(EASTING) (NORTHING) (FT) (M) 1856733.089	GRID AND ZONE OHIO/SOUTH
ESTABLISHED BY (AGENCY) DLA. INC.		
(NORTHING) (EASTING) (FT) (M)	(EASTING) (NORTHING) (FT) (M)	GRID AND ZONE
DATE 3/91	ORDER 3RD.	
TO OBTAIN GRID AZIMUTH ADD ° ′ ″	TO THE GEODETIC AZIMUTH	
TO OBTAIN GRID AZ. (ADD/SUB) ° ′ ″	TO THE GEODETIC AZIMUTH	

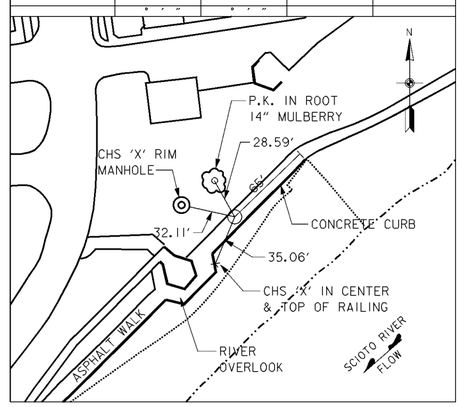
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
111/12	S65°58'22"W	° ′ ″		325.604
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		



LEVELMAN : K. ELLIOTT	PROJECT NO. 19/0
DATE : FEB.12, 1990	DESC. WEST COLUMBUS BORING LOCATION
BOOK NO. : CEN-S 95 V	
COMPUTED BY : K.ELLIOTT	
CHECKED BY : R.TANNO	VERTICAL DATUM : 1929 NGS
T.B.M. : 95/9	LOCATION : 95/9
	BRASS DISK SET IN THE WEST FLOODWALL
ELEV. : 722.436	OF THE SCIOTO RIVER. 100 FT. NORTH OF
	WEST BROAD STREET IN THE YARD OF
DESC. : BRASS DISK	THE FRANKLIN COUNTY VETERANS MEMORIAL.
QUAD. : S.W. COLUMBUS	
COOR. : N. = 714,920.0	
E. = 1,857,950.0	TOPO SHEET NO. : 8

COUNTRY	TYPE OF MARK	STATION
U.S.A.	PK NAIL	111/14 (356)
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)
FRANKLIN COUNTY	111/14	
LATITUDE	LONGITUDE	DATUM 1927 NGS
ELEVATION 1929 NGVD (FT) (M)		
(NORTHING) (EASTING) (FT) (M) 712196.482	(EASTING) (NORTHING) (FT) (M) 1856494.127	GRID AND ZONE OHIO/SOUTH
ESTABLISHED BY (AGENCY) DLA. INC.		
(NORTHING) (EASTING) (FT) (M)	(EASTING) (NORTHING) (FT) (M)	GRID AND ZONE
DATE 3/91	ORDER 3RD.	
TO OBTAIN GRID AZIMUTH ADD ° ′ ″	TO THE GEODETIC AZIMUTH	
TO OBTAIN GRID AZ. (ADD/SUB) ° ′ ″	TO THE GEODETIC AZIMUTH	

OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
111/13	S47°24'07"W	° ′ ″		324.624
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		
	° ′ ″	° ′ ″		



LEVELMAN : SMITH/CSC	PROJECT NO. WEST COLUMBUS. OHIO - LPP
DATE : JANUARY, 1989	DESC. PHOTO CONTROL
BOOK NO. :	JOB 05/9 W.O. 0009
COMPUTED BY : ZINSMSEISTER/CSC	
CHECKED BY : WILLIS/CSC	VERTICAL DATUM : 1929 NGS DATUM
T.B.M. : 60/26	LOCATION : BRASS DISK IN SOUTHEAST
	ABUTMENT OF CONRAIL BRIDGE OVER SCIOTO
ELEV. : 728.139	RIVER.
DESC. : BRASS DISK	
QUAD. : S.W. COLUMBUS	
COOR. : N. =	
E. =	

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO.0/6.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

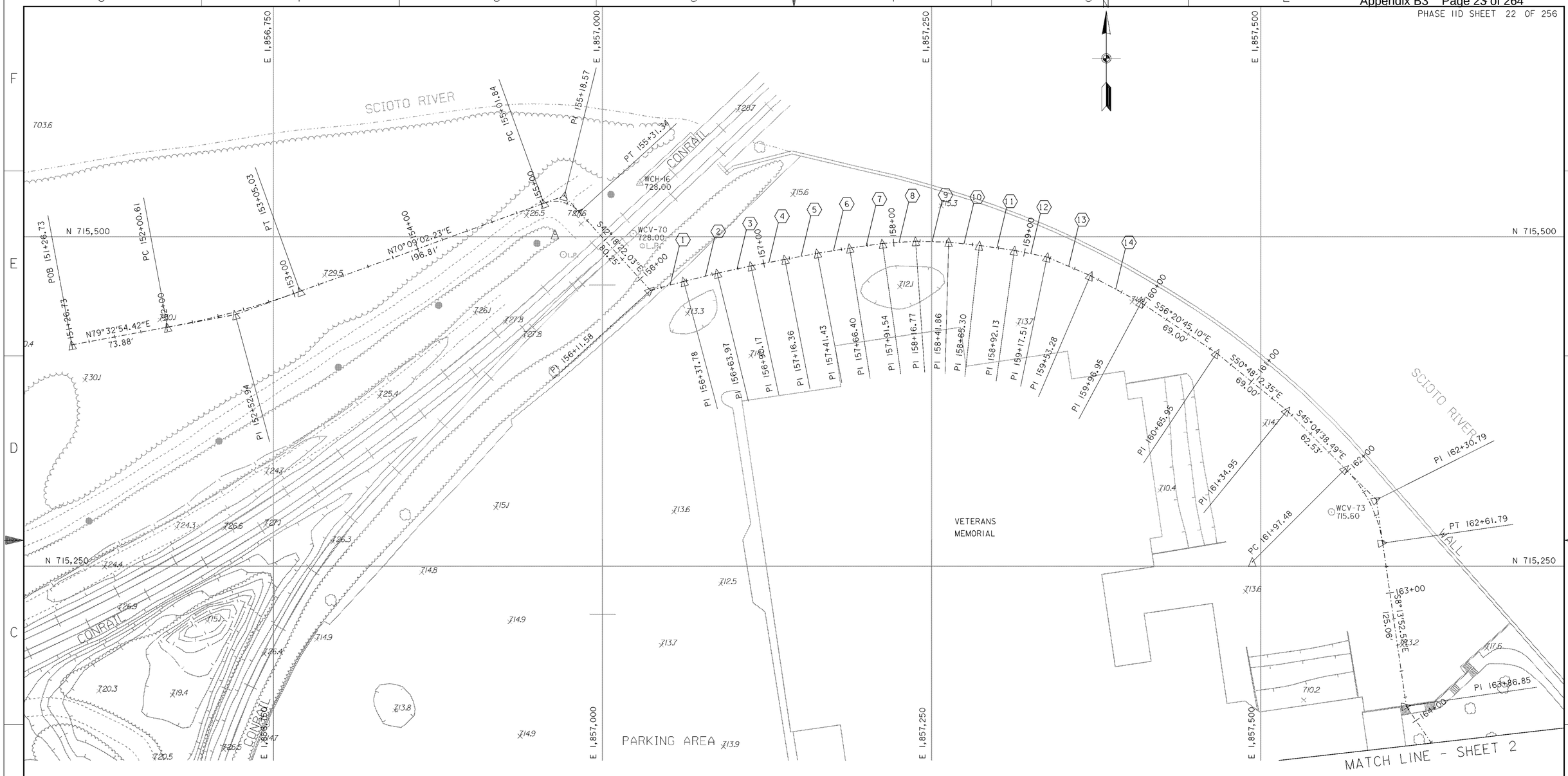
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

SURVEY REFERENCES

Scale: NONE
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/1
FILENAME: 00usar01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



SEGMENT	BEARING	LENGTH
1	N 75°10'18.18" E	26.20
2	N 76°17'58.45" E	26.19
3	N 77°46'45.72" E	26.20
4	N 79°02'25.92" E	26.19
5	N 79°14'35.44" E	25.07
6	N 81°06'02.28" E	24.97
7	N 82°00'40.99" E	25.14
8	N 86°00'56.42" E	25.23
9	S 88°25'51.79" E	25.09
10	S 83°41'23.19" E	23.44
11	S 82°05'50.07" E	26.83
12	S 78°27'41.71" E	25.38
13	S 66°47'24.19" E	35.77
14	S 61°50'43.17" E	43.67

PLAN

SCALE: 1" = 30'
30' 0 30'

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NOS. 11/8 THRU 11/10.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CENTERLINE OF PROTECTION (1 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/2
FILENAME: 00a5cl01.dgn
PEN TABLE:
Sheet 1 of 6

WORK AS CONSTRUCTED

MATCH LINE - SHEET 1

E 1,857,500 | E 1,857,750 | E 1,858,000 | E 1,858,250

N 715,000

N 714,750

VETERANS MEMORIAL

WEST BROAD STREET

BASEBALL FIELD

WALL

SCIOTO RIVER

165+00
S34°20'26.81"E
272.93'

166+00

PI 166+59.77

PI 167+19.77

167+00
S51°18'50.14"E
60.00'

168+00
S66°22'23.91"E
148.44'

169+00
S40°20'42.15"E
131.78'

PI 168+68.22

PI Sta 170+20.35

170+00.00

170+00

PI Sta 170+38.66

PI Sta 170+84.49

171+00

PI Sta 171+35.

172+00

SEGMENT	BEARING	LENGTH
1	S 33°18'31.13" W	20.35
2	S 41°19'18.70" E	18.51
3	S 39°01'50.96" E	45.63
4	S 35°41'02.74" E	50.70
5	S 32°03'27.44" E	50.75

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NOS. 11/8 THRU 11/10.

MATCH LINE - SHEET 3

PLAN

SCALE: 1" = 30'

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CENTERLINE OF PROTECTION (2 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/3
FILENAME: PRN TABLE: c0a5cl02.dgn
Sheet 2 of 6

WORK AS CONSTRUCTED

MATCH LINE - SHEET 2

MATCH LINE - THIS SHEET

SEGMENT	BEARING	LENGTH
1	S 28°25'55.34" E	45.68
2	S 24°48'15.10" E	50.76
3	S 21°44'53.30" E	30.46
4	S 19°15'54.31" E	35.53
5	S 16°55'40.75" E	35.54
6	S 13°42'59.78" E	30.46
7	S 11°36'58.78" E	35.53
8	S 9°20'59.12" E	25.38
9	S 7°08'52.66" E	25.35
10	S 4°30'19.54" E	35.54
11	S 1°52'55.06" E	40.61
12	S 1°32'52.50" W	50.76
13	S 5°22'21.18" W	50.76
14	S 8°59'59.48" W	45.68
15	S 12°49'10.17" W	55.83
16	S 16°37'01.91" W	45.66
17	S 19°50'07.84" W	45.63
18	S 23°00'23.54" W	45.63
19	S 26°10'43.38" W	45.63
20	S 28°52'24.21" W	46.70
21	S 25°29'22.19" E	54.15
22	S 22°20'26.09" W	26.12
23	S 44°17'51.07" W	29.76

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NOS. 11/8 THRU 11/10.
3. 36-INCH AND 15-INCH SEWERS FILLED UNDER CITY OF COLUMBUS CONTRACT FOR WORK AT COSI.

PLAN
SCALE: 1" = 30'

PLAN
SCALE: 1" = 30'

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

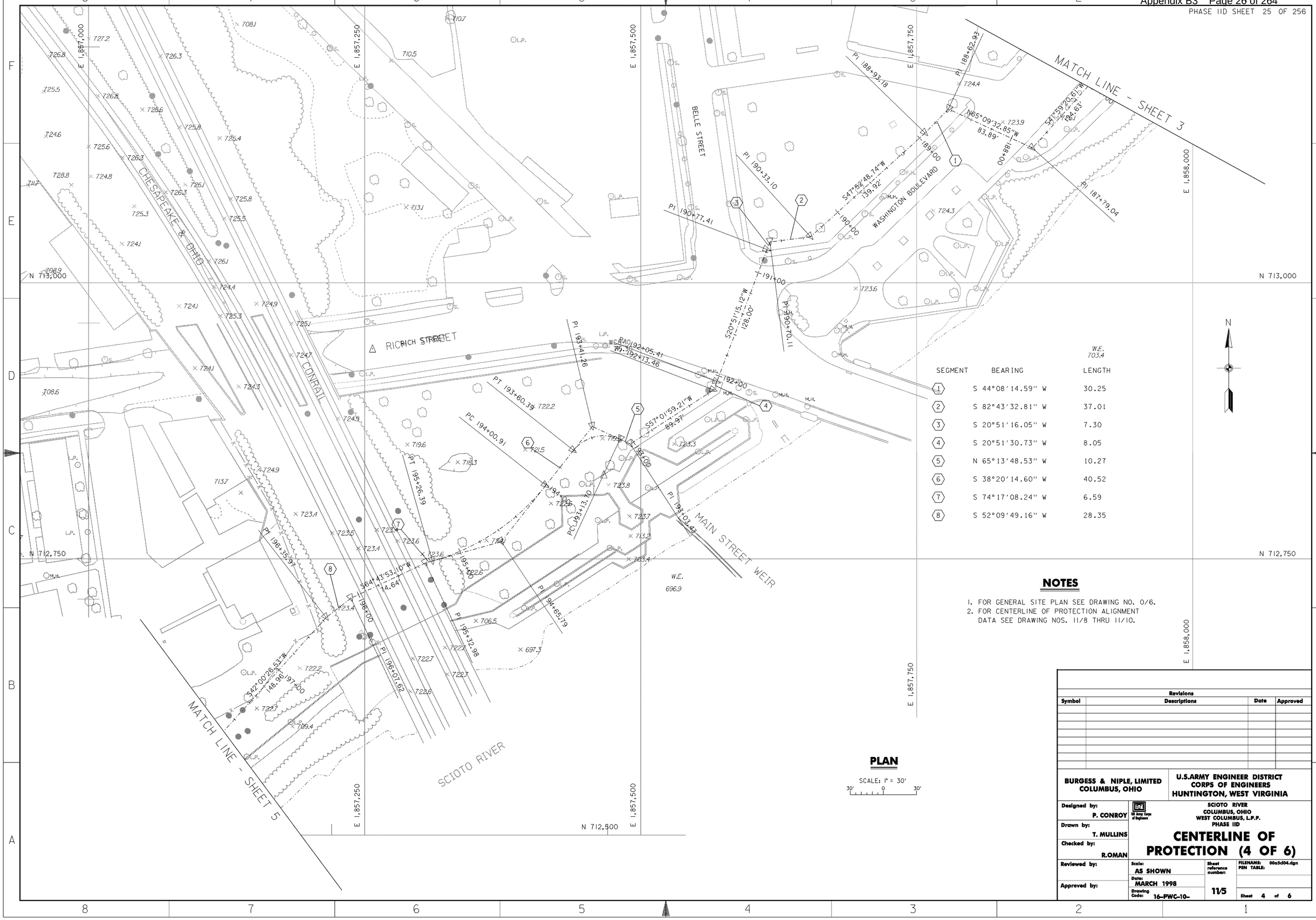
Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CENTERLINE OF PROTECTION (3 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/4
FILENAME: PEN TABLE: c0a5cl03.dgn
Sheet 3 of 6

WORK AS CONSTRUCTED



SEGMENT	BEARING	LENGTH
1	S 44°08'14.59" W	30.25
2	S 82°43'32.81" W	37.01
3	S 20°51'16.05" W	7.30
4	S 20°51'30.73" W	8.05
5	N 65°13'48.53" W	10.27
6	S 38°20'14.60" W	40.52
7	S 74°17'08.24" W	6.59
8	S 52°09'49.16" W	28.35

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NOS. 11/8 THRU 11/10.

PLAN

SCALE: 1" = 30'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

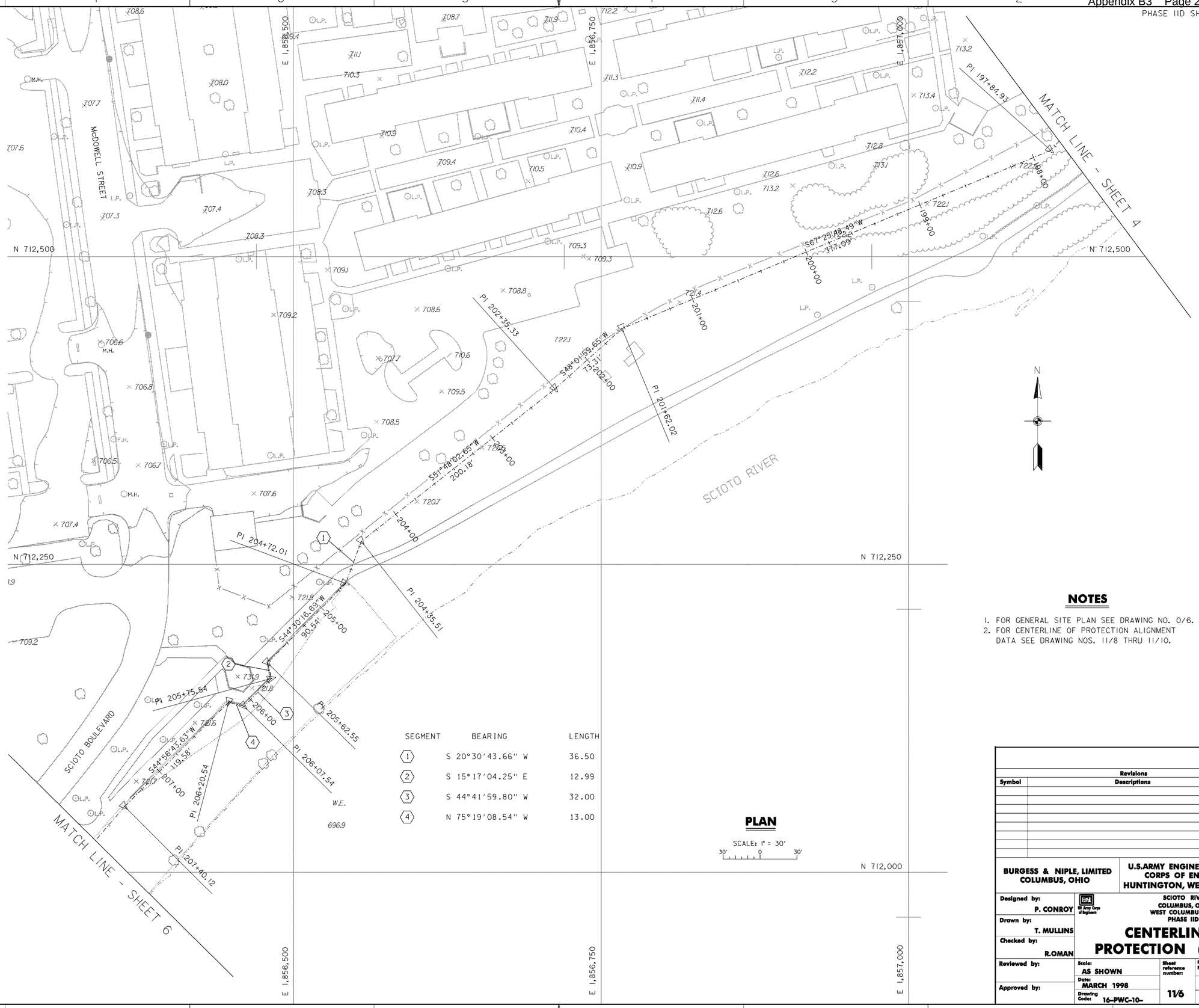
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CENTERLINE OF PROTECTION (4 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/5
FILENAME: 00a5d04.dgn
PEN TABLE:
Sheet 4 of 6

WORK AS CONSTRUCTED



SEGMENT	BEARING	LENGTH
1	S 20°30'43.66" W	36.50
2	S 15°17'04.25" E	12.99
3	S 44°41'59.80" W	32.00
4	N 75°19'08.54" W	13.00

PLAN

SCALE: 1" = 30'
30' 0 30'

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NOS. 11/8 THRU 11/10.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CENTERLINE OF PROTECTION (5 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/6
FILENAME: 00a5cl05.dgn
PEN TABLE:
Sheet 5 of 6

WORK AS CONSTRUCTED

SEGMENT	BEARING	LENGTH
1	S 1°42'21.00" E	12.03
2	S 39°55'44.31" W	28.00
3	S 81°33'18.67" W	11.99
4	S 5°52'36.10" E	12.01
5	S 35°45'16.62" W	28.00
6	S 77°23'27.25" W	12.00
7	S 33°14'48.93" W	55.94
8	S 31°39'34.31" W	58.01
9	S 30°28'42.92" W	57.90
10	S 28°03'22.41" W	56.95
11	S 13°55'44.16" E	12.05
12	S 27°42'26.15" W	28.00
13	S 69°20'37.38" W	12.04
14	N 71°04'51.73" W	37.62

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NOS. 11/8 THRU 11/10.

PLAN

SCALE: 1" = 30'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CENTERLINE OF PROTECTION (6 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference numbers: 11/7
FILENAME: 00a5cl06.dgn
PEN TABLE:
Sheet 6 of 6

WORK AS CONSTRUCTED

HORIZONTAL ALIGNMENT DATA FOR CENTERLINE OF PROTECTION

	STATION	NORTH(Y)	EAST(X)
Element: LINEAR			
POB	151+26.73	715418.105	1856596.884
PC	152+00.61	715431.508	1856669.541
Tangent Direction:	N 79°32'54.42" E		
Tangent Length:	73.882		
Element: CIRCULAR CURVE			
PC	152+00.61	715431.508	1856669.541
PI	152+52.94	715441.000	1856721.000
CC		716057.565	1856554.055
PT	153+05.03	715458.768	1856770.219
Curve Radius:	-636.620		
Curve Length:	104.420		
Total Central Angle:	9°23'52.19"		
1st Subtangent Distance:	52.328		
2nd Subtangent Distance:	52.328		
Element: LINEAR			
PT	153+05.03	715458.768	1856770.219
PC	155+01.84	715525.594	1856955.335
Tangent Direction:	N 70°09'02.23" E		
Tangent Length:	196.809		
Element: CIRCULAR CURVE			
PC	155+01.84	715525.594	1856955.335
PI	155+18.57	715531.275	1856971.072
CC		715502.060	1856963.830
PT	155+31.34	715518.901	1856982.334
Curve Radius:	25.020		
Curve Length:	29.495		
Total Central Angle:	67°32'35.75"		
1st Subtangent Distance:	16.731		
2nd Subtangent Distance:	16.731		
Element: LINEAR			
PT	155+31.34	715518.901	1856982.334
PI	156+11.58	715459.553	1857036.348
Tangent Direction:	S 42°18'22.03" E		
Tangent Length:	80.248		
Element: LINEAR			
PI	156+11.58	715459.553	1857036.348
PI	156+37.78	715466.257	1857061.671
Tangent Direction:	N 75°10'18.18" E		
Tangent Length:	26.195		
Element: LINEAR			
PI	156+37.78	715466.257	1857061.671
PI	156+63.97	715472.461	1857087.120
Tangent Direction:	N 76°17'58.45" E		
Tangent Length:	26.194		
Element: LINEAR			
PI	156+63.97	715472.461	1857087.120
PI	156+90.17	715478.006	1857112.722
Tangent Direction:	N 77°46'45.72" E		
Tangent Length:	26.196		
Element: LINEAR			
PI	156+90.17	715478.006	1857112.722
PI	157+16.36	715482.986	1857138.439
Tangent Direction:	N 79°02'25.92" E		
Tangent Length:	26.195		
Element: LINEAR			
PI	157+16.36	715482.986	1857138.439
PI	157+41.43	715487.665	1857163.068
Tangent Direction:	N 79°14'35.44" E		
Tangent Length:	25.070		
Element: LINEAR			
PI	157+41.43	715487.665	1857163.068
PI	157+66.40	715491.527	1857187.732
Tangent Direction:	N 81°06'02.28" E		
Tangent Length:	24.965		
Element: LINEAR			
PI	157+66.40	715491.527	1857187.732
PI	157+91.54	715495.021	1857212.629
Tangent Direction:	N 82°00'40.99" E		
Tangent Length:	25.141		
Element: LINEAR			
PI	157+91.54	715495.021	1857212.629
PI	158+16.77	715496.774	1857237.797
Tangent Direction:	N 86°00'56.42" E		
Tangent Length:	25.229		
Element: LINEAR			
PI	158+16.77	715496.774	1857237.797
PI	158+41.86	715496.087	1857262.879
Tangent Direction:	S 88°25'51.79" E		
Tangent Length:	25.091		
Element: LINEAR			
PI	158+41.86	715496.087	1857262.879
PI	158+65.30	715493.511	1857286.174
Tangent Direction:	S 83°41'23.19" E		
Tangent Length:	23.437		
Element: LINEAR			
PI	158+65.30	715493.511	1857286.174
PI	158+92.13	715489.821	1857312.757
Tangent Direction:	S 82°05'50.07" E		
Tangent Length:	26.838		
Element: LINEAR			
PI	158+92.13	715489.821	1857312.757
PI	159+17.51	715484.745	1857337.621
Tangent Direction:	S 78°27'41.71" E		
Tangent Length:	25.377		
Element: LINEAR			
PI	159+17.51	715484.745	1857337.621
PI	159+53.28	715470.648	1857370.496
Tangent Direction:	S 66°47'24.19" E		
Tangent Length:	35.770		
Element: LINEAR			
PI	159+53.28	715470.648	1857370.496
PI	159+96.95	715450.041	1857409.001
Tangent Direction:	S 61°50'43.17" E		
Tangent Length:	43.672		
Element: LINEAR			
PI	159+96.95	715450.041	1857409.001
PI	160+65.95	715411.803	1857466.436
Tangent Direction:	S 56°20'45.10" E		
Tangent Length:	68.999		
Element: LINEAR			
PI	160+65.95	715411.803	1857466.436
PI	161+34.95	715368.196	1857519.910
Tangent Direction:	S 50°48'12.35" E		
Tangent Length:	69.000		
Element: LINEAR			
PI	161+34.95	715368.196	1857519.910
PC	161+97.48	715324.040	1857564.185
Tangent Direction:	S 45°04'38.49" E		
Tangent Length:	62.530		
Element: CIRCULAR CURVE			
PC	161+97.48	715324.040	1857564.185
PI	162+30.79	715300.518	1857587.771
CC		715253.234	1857493.570
PT	162+61.79	715267.551	1857592.540
Curve Radius:	100.000		
Curve Length:	64.309		
Total Central Angle:	36°50'45.97"		
1st Subtangent Distance:	33.310		
2nd Subtangent Distance:	33.310		
Element: LINEAR			
PT	162+61.79	715267.551	1857592.540
PI	163+86.85	715143.784	1857610.444
Tangent Direction:	S 8°13'52.52" E		
Tangent Length:	125.055		
Element: LINEAR			
PI	163+86.85	715143.784	1857610.444
PI	166+59.77	714918.429	1857764.406
Tangent Direction:	S 34°20'26.87" E		
Tangent Length:	272.927		
Element: LINEAR			
PI	166+59.77	714918.429	1857764.406
PI	167+19.77	714880.926	1857811.241
Tangent Direction:	S 51°18'50.74" E		
Tangent Length:	60.000		
Element: LINEAR			
PI	167+19.77	714880.926	1857811.241
PI	168+68.22	714821.433	1857947.243
Tangent Direction:	S 66°22'23.91" E		
Tangent Length:	148.445		
◇1 Element: LINEAR			
PI	168+68.22	714821.433	1857947.243
PI	170+00.00	714720.995	1858032.556
Tangent Direction:	S 40°20'42.15" E		
Tangent Length:	131.781		
◇1 Element: LINEAR			
PI	170+00.00	714720.995	1858032.556
PI	170+20.35	714703.990	1858021.382
Tangent Direction:	S 33°18'31.13" W		
Tangent Length:	20.348		
◇1 Element: LINEAR			
PI	170+20.35	714703.990	1858021.382
PI	170+38.86	714690.085	1858033.607
Tangent Direction:	S 41°19'18.70" E		
Tangent Length:	18.515		
◇1 Element: LINEAR			
PI	170+38.86	714690.085	1858033.607
PI	170+84.49	714654.638	1858062.343
Tangent Direction:	S 39°01'50.96" E		
Tangent Length:	45.632		
◇1 Element: LINEAR			
PI	170+84.49	714654.638	1858062.343
PI	171+35.19	714613.458	1858091.917
Tangent Direction:	S 35°41'02.74" E		
Tangent Length:	50.699		
◇1 Element: LINEAR			
PI	171+35.19	714613.458	1858091.917
PI	171+85.94	714570.449	1858118.852
Tangent Direction:	S 32°03'27.44" E		
Tangent Length:	50.748		
◇1 Element: LINEAR			
PI	171+85.94	714570.449	1858118.852
PI	172+31.62	714530.275	1858140.603
Tangent Direction:	S 28°25'55.34" E		
Tangent Length:	45.683		
◇1 Element: LINEAR			
PI	172+31.62	714530.275	1858140.603
PI	172+82.38	714484.201	1858161.896
Tangent Direction:	S 24°48'15.10" E		
Tangent Length:	50.757		

NOTES

1. FOR SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION PLAN SEE DRAWING NOS. 11/2 THRU 11/7.

Revisions			
Symbol	Descriptions	Date	Approved
◇1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HORIZONTAL ALIGNMENT (1 OF 3)

Scale: NONE
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/8
FILENAME: a0a5mt01.dgn
PRN TABLE:
Sheet 1 of 3

WORK AS CONSTRUCTED

HORIZONTAL ALIGNMENT DATA FOR CENTERLINE OF PROTECTION

Element: LINEAR

PI	172+82.38	714484.201	1858161.896
PI	173+12.84	714455.911	1858173.181
Tangent Direction:	S 21°44'53.30" E		
Tangent Length:	30.458		

Element: LINEAR

PI	173+12.84	714455.911	1858173.181
PI	173+48.37	714422.367	1858184.906
Tangent Direction:	S 19°15'54.31" E		
Tangent Length:	35.534		

Element: LINEAR

PI	173+48.37	714422.367	1858184.906
PI	173+83.91	714388.369	1858195.253
Tangent Direction:	S 16°55'40.75" E		
Tangent Length:	35.538		

Element: LINEAR

PI	173+83.91	714388.369	1858195.253
PI	174+14.37	714358.775	1858202.477
Tangent Direction:	S 13°42'59.78" E		
Tangent Length:	30.463		

Element: LINEAR

PI	174+14.37	714358.775	1858202.477
PI	174+49.91	714323.969	1858209.631
Tangent Direction:	S 11°36'58.78" E		
Tangent Length:	35.533		

Element: LINEAR

PI	174+49.91	714323.969	1858209.631
PI	174+75.29	714298.924	1858213.755
Tangent Direction:	S 9°20'59.12" E		
Tangent Length:	25.382		

Element: LINEAR

PI	174+75.29	714298.924	1858213.755
PI	176+62.07	714114.058	1858240.461
Tangent Direction:	S 8°13'12.79" E		
Tangent Length:	186.785		

Element: LINEAR

PI	176+62.07	714114.058	1858240.461
PI	176+87.42	714088.910	1858243.615
Tangent Direction:	S 7°08'52.66" E		
Tangent Length:	25.345		

Element: LINEAR

PI	176+87.42	714088.910	1858243.615
PI	177+22.96	714053.482	1858246.407
Tangent Direction:	S 4°30'19.54" E		
Tangent Length:	35.538		

Element: LINEAR

PI	177+22.96	714053.482	1858246.407
PI	177+63.57	714012.896	1858247.740
Tangent Direction:	S 1°52'55.06" E		
Tangent Length:	40.608		

Element: LINEAR

PI	177+63.57	714012.896	1858247.740
PI	178+14.32	713962.157	1858246.369
Tangent Direction:	S 1°32'52.50" W		
Tangent Length:	50.758		

Element: LINEAR

PI	178+14.32	713962.157	1858246.369
PI	178+65.08	713911.623	1858241.617
Tangent Direction:	S 5°22'21.18" W		
Tangent Length:	50.757		

Element: LINEAR

PI	178+65.08	713911.623	1858241.617
PI	179+10.76	713866.502	1858234.470
Tangent Direction:	S 8°59'59.48" W		
Tangent Length:	45.683		

Element: LINEAR

PI	179+10.76	713866.502	1858234.470
PI	179+66.59	713812.063	1858222.082
Tangent Direction:	S 12°49'10.17" W		
Tangent Length:	55.831		

Element: LINEAR

PI	179+66.59	713812.063	1858222.082
PI	180+12.26	713768.308	1858209.024
Tangent Direction:	S 16°37'01.91" W		
Tangent Length:	45.661		

Element: LINEAR

PI	180+12.26	713768.308	1858209.024
PI	180+57.89	713725.385	1858193.541
Tangent Direction:	S 19°50'07.84" W		
Tangent Length:	45.631		

Element: LINEAR

PI	180+57.89	713725.385	1858193.541
PI	181+03.52	713683.384	1858175.707
Tangent Direction:	S 23°00'23.54" W		
Tangent Length:	45.630		

Element: LINEAR

PI	181+03.52	713683.384	1858175.707
PI	181+49.15	713642.434	1858155.576
Tangent Direction:	S 26°10'43.38" W		
Tangent Length:	45.631		

Element: LINEAR

PI	181+49.15	713642.434	1858155.576
PI	181+95.85	713601.540	1858133.026
Tangent Direction:	S 28°52'24.21" W		
Tangent Length:	46.700		

Element: LINEAR

PI	181+95.85	713601.540	1858133.026
PI	182+50.00	713552.657	1858156.330
Tangent Direction:	S 25°29'22.19" E		
Tangent Length:	54.153		

Element: LINEAR

PI	182+50.00	713552.657	1858156.330
PI	182+76.12	713528.496	1858146.401
Tangent Direction:	S 22°20'26.09" W		
Tangent Length:	26.122		

Element: LINEAR

PI	182+76.12	713528.496	1858146.401
PI	183+05.88	713507.196	1858125.617
Tangent Direction:	S 44°17'51.07" W		
Tangent Length:	29.760		

Element: LINEAR

PI	183+05.88	713507.196	1858125.617
PI	183+87.79	713433.177	1858090.543
Tangent Direction:	S 25°21'14.38" W		
Tangent Length:	81.908		

Element: LINEAR

PI	183+87.79	713433.177	1858090.543
PI	185+33.99	713310.901	1858010.394
Tangent Direction:	S 33°14'37.99" W		
Tangent Length:	146.203		

Element: LINEAR

PI	185+33.99	713310.901	1858010.394
PI	186+54.41	713214.629	1857938.065
Tangent Direction:	S 36°55'02.93" W		
Tangent Length:	120.415		

Element: LINEAR

PI	186+54.41	713214.629	1857938.065
PI	187+79.04	713121.995	1857854.689
Tangent Direction:	S 41°59'20.61" W		
Tangent Length:	124.630		

Element: LINEAR

PI	187+79.04	713121.995	1857854.689
PI	188+62.93	713157.237	1857778.561
Tangent Direction:	N 65°09'32.85" W		
Tangent Length:	83.890		

Element: LINEAR

PI	188+62.93	713157.237	1857778.561
PI	188+93.18	713135.529	1857757.497
Tangent Direction:	S 44°08'14.59" W		
Tangent Length:	30.248		

Element: LINEAR

PI	188+93.18	713135.529	1857757.497
PI	190+33.10	713041.686	1857653.711
Tangent Direction:	S 47°52'48.74" W		
Tangent Length:	139.922		

Element: LINEAR

PI	190+33.10	713041.686	1857653.711
PI	190+70.11	713037.000	1857617.000
Tangent Direction:	S 82°43'32.81" W		
Tangent Length:	37.009		

Element: LINEAR

PI	190+70.11	713037.000	1857617.000
PI	190+77.41	713030.175	1857614.400
Tangent Direction:	S 20°51'16.05" W		
Tangent Length:	7.303		

Element: LINEAR

PI	190+77.41	713030.175	1857614.400
PI	192+05.41	712910.560	1857568.833
Tangent Direction:	S 20°51'15.12" W		
Tangent Length:	128.000		

Element: LINEAR

PI	192+05.41	712910.560	1857568.833
PI	192+13.46	712903.039	1857565.967
Tangent Direction:	S 20°51'30.73" W		
Tangent Length:	8.048		

Element: LINEAR

PI	192+13.46	712903.039	1857565.967
PI	193+03.43	712854.083	1857490.486
Tangent Direction:	S 57°01'59.21" W		
Tangent Length:	89.967		

Element: LINEAR

PI	193+03.43	712854.083	1857490.486
PC	193+13.70	712858.387	1857481.159
Tangent Direction:	N 65°13'48.53" W		
Tangent Length:	10.272		

NOTES

1. FOR SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION PLAN SEE DRAWING NOS. 11/2 THRU 11/7.

Revisions			
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1	REVISED AS CONSTRUCTED	7/02	P.O.C.

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SCIOTO RIVER
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WEST COLUMBUS, L.P.P.
PHASE IID

HORIZONTAL ALIGNMENT (2 OF 3)

Scale: NONE
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/9
FILENAME: a0a5mt01.dgn
PEN TABLE:
Sheet 2 of 3

WORK AS CONSTRUCTED

HORIZONTAL ALIGNMENT DATA FOR CENTERLINE OF PROTECTION

Element: CIRCULAR CURVE			
PC	193+13.70	712858.387	1857481.159
PI	193+41.26	712869.933	1857456.136
CC		712826.607	1857466.495
PT	193+60.39	712848.317	1857439.042
Curve Radius:	-35.000		
Curve Length:	46.690		
Total Central Angle:	76°25'56.87"		
1st Subtangent Distance:	27.558		
2nd Subtangent Distance:	27.558		
Element: LINEAR			
PT	193+60.39	712848.317	1857439.042
PC	194+00.91	712816.532	1857413.906
Tangent Direction:	S 38°20'14.60" W		
Tangent Length:	40.523		
Element: CIRCULAR CURVE			
PC	194+00.91	712816.532	1857413.906
PI	194+65.79	712765.639	1857373.659
CC		712940.590	1857257.032
PT	195+26.39	712748.066	1857311.200
Curve Radius:	200.000		
Curve Length:	125.483		
Total Central Angle:	35°56'53.64"		
1st Subtangent Distance:	64.884		
2nd Subtangent Distance:	64.884		
Element: LINEAR			
PT	195+26.39	712748.066	1857311.200
PI	195+32.98	712746.281	1857304.857
Tangent Direction:	S 74°17'08.24" W		
Tangent Length:	6.589		
Element: LINEAR			
PI	195+32.98	712746.281	1857304.857
PI	196+07.62	712714.422	1857237.363
Tangent Direction:	S 64°43'53.10" W		
Tangent Length:	74.635		
Element: LINEAR			
PI	196+07.62	712714.422	1857237.363
PI	196+35.97	712697.031	1857214.972
Tangent Direction:	S 52°09'49.16" W		
Tangent Length:	28.351		
Element: LINEAR			
PI	196+35.97	712697.031	1857214.972
PI	197+84.93	712586.346	1857115.285
Tangent Direction:	S 42°00'26.53" W		
Tangent Length:	148.959		
Element: LINEAR			
PI	197+84.93	712586.346	1857115.285
PI	201+62.02	712441.615	1856767.075
Tangent Direction:	S 67°25'48.49" W		
Tangent Length:	377.091		
Element: LINEAR			
PI	201+62.02	712441.615	1856767.075
PI	202+35.33	712392.593	1856712.567
Tangent Direction:	S 48°01'59.65" W		
Tangent Length:	73.309		
Element: LINEAR			
PI	202+35.33	712392.593	1856712.567
PI	204+35.51	712268.800	1856555.250
Tangent Direction:	S 51°48'02.65" W		
Tangent Length:	200.183		
Element: LINEAR			
PI	204+35.51	712268.800	1856555.250
PI	204+72.01	712234.619	1856542.462
Tangent Direction:	S 20°30'43.66" W		
Tangent Length:	36.495		
Element: LINEAR			
PI	204+72.01	712234.619	1856542.462
PI	205+62.55	712170.047	1856478.997
Tangent Direction:	S 44°30'16.69" W		
Tangent Length:	90.539		
Element: LINEAR			
PI	205+62.55	712170.047	1856478.997
PI	205+75.54	712157.514	1856482.422
Tangent Direction:	S 15°17'04.25" E		
Tangent Length:	12.993		
Element: LINEAR			
PI	205+75.54	712157.514	1856482.422
PI	206+07.54	712134.768	1856459.913
Tangent Direction:	S 44°41'59.80" W		
Tangent Length:	32.001		
Element: LINEAR			
PI	206+07.54	712134.768	1856459.913
PI	206+20.54	712138.062	1856447.340
Tangent Direction:	N 75°19'08.54" W		
Tangent Length:	12.997		
Element: LINEAR			
PI	206+20.54	712138.062	1856447.340
PI	207+40.12	712053.425	1856362.864
Tangent Direction:	S 44°56'43.63" W		
Tangent Length:	119.581		
Element: LINEAR			
PI	207+40.12	712053.425	1856362.864
PI	208+34.88	711981.709	1856300.920
Tangent Direction:	S 40°49'06.58" W		
Tangent Length:	94.764		
Element: LINEAR			
PI	208+34.88	711981.709	1856300.920
PI	208+46.91	711969.688	1856301.278
Tangent Direction:	S 1°42'21.00" E		
Tangent Length:	12.026		
Element: LINEAR			
PI	208+46.91	711969.688	1856301.278
PI	208+74.91	711948.217	1856283.307
Tangent Direction:	S 39°55'44.31" W		
Tangent Length:	27.999		
Element: LINEAR			
PI	208+74.91	711948.217	1856283.307
PI	208+86.90	711946.455	1856271.439
Tangent Direction:	S 81°33'18.67" W		
Tangent Length:	11.998		
Element: LINEAR			
PI	208+86.90	711946.455	1856271.439
PI	209+66.32	711883.384	1856223.182
Tangent Direction:	S 37°25'13.41" W		
Tangent Length:	79.415		
Element: LINEAR			
PI	209+66.32	711883.384	1856223.182
PI	209+78.33	711871.434	1856224.412
Tangent Direction:	S 5°52'36.10" E		
Tangent Length:	12.013		
Element: LINEAR			
PI	209+78.33	711871.434	1856224.412
PI	210+06.33	711848.711	1856208.051
Tangent Direction:	S 35°45'16.62" W		
Tangent Length:	28.000		
Element: LINEAR			
PI	210+06.33	711848.711	1856208.051
PI	210+18.33	711846.092	1856196.343
Tangent Direction:	S 77°23'27.25" W		
Tangent Length:	11.997		
Element: LINEAR			
PI	210+18.33	711846.092	1856196.343
PI	210+74.27	711799.307	1856165.673
Tangent Direction:	S 33°14'48.93" W		
Tangent Length:	55.942		
Element: LINEAR			
PI	210+74.27	711799.307	1856165.673
PI	211+32.28	711749.936	1856135.229
Tangent Direction:	S 31°39'34.31" W		
Tangent Length:	58.003		
Element: LINEAR			
PI	211+32.28	711749.936	1856135.229
PI	211+90.18	711700.033	1856105.859
Tangent Direction:	S 30°28'42.92" W		
Tangent Length:	57.904		
Element: LINEAR			
PI	211+90.18	711700.033	1856105.859
PI	212+46.13	711650.653	1856079.541
Tangent Direction:	S 28°03'22.41" W		
Tangent Length:	55.956		
Element: LINEAR			
PI	212+46.13	711650.653	1856079.541
PI	212+58.18	711638.964	1856082.440
Tangent Direction:	S 13°55'44.16" E		
Tangent Length:	12.043		
Element: LINEAR			
PI	212+58.18	711638.964	1856082.440
PI	212+86.18	711614.176	1856069.422
Tangent Direction:	S 27°42'26.15" W		
Tangent Length:	27.998		
Element: LINEAR			
PI	212+86.18	711614.176	1856069.422
PI	212+98.22	711609.928	1856058.154
Tangent Direction:	S 69°20'37.38" W		
Tangent Length:	12.042		
Element: LINEAR			
PI	212+98.22	711609.928	1856058.154
PI	214+21.52	711499.147	1856004.009
Tangent Direction:	S 26°02'50.64" W		
Tangent Length:	123.305		
Element: LINEAR			
PI	214+21.52	711499.147	1856004.009
PI	215+44.75	711385.838	1855955.567
Tangent Direction:	S 23°08'51.85" W		
Tangent Length:	123.230		
Element: LINEAR			
PI	215+44.75	711385.838	1855955.567
POE	215+82.37	711398.036	1855919.978
Tangent Direction:	N 71°04'51.73" W		
Tangent Length:	37.621		

NOTES

1. FOR SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION PLAN SEE DRAWING NOS. 11/2 THRU 11/7.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

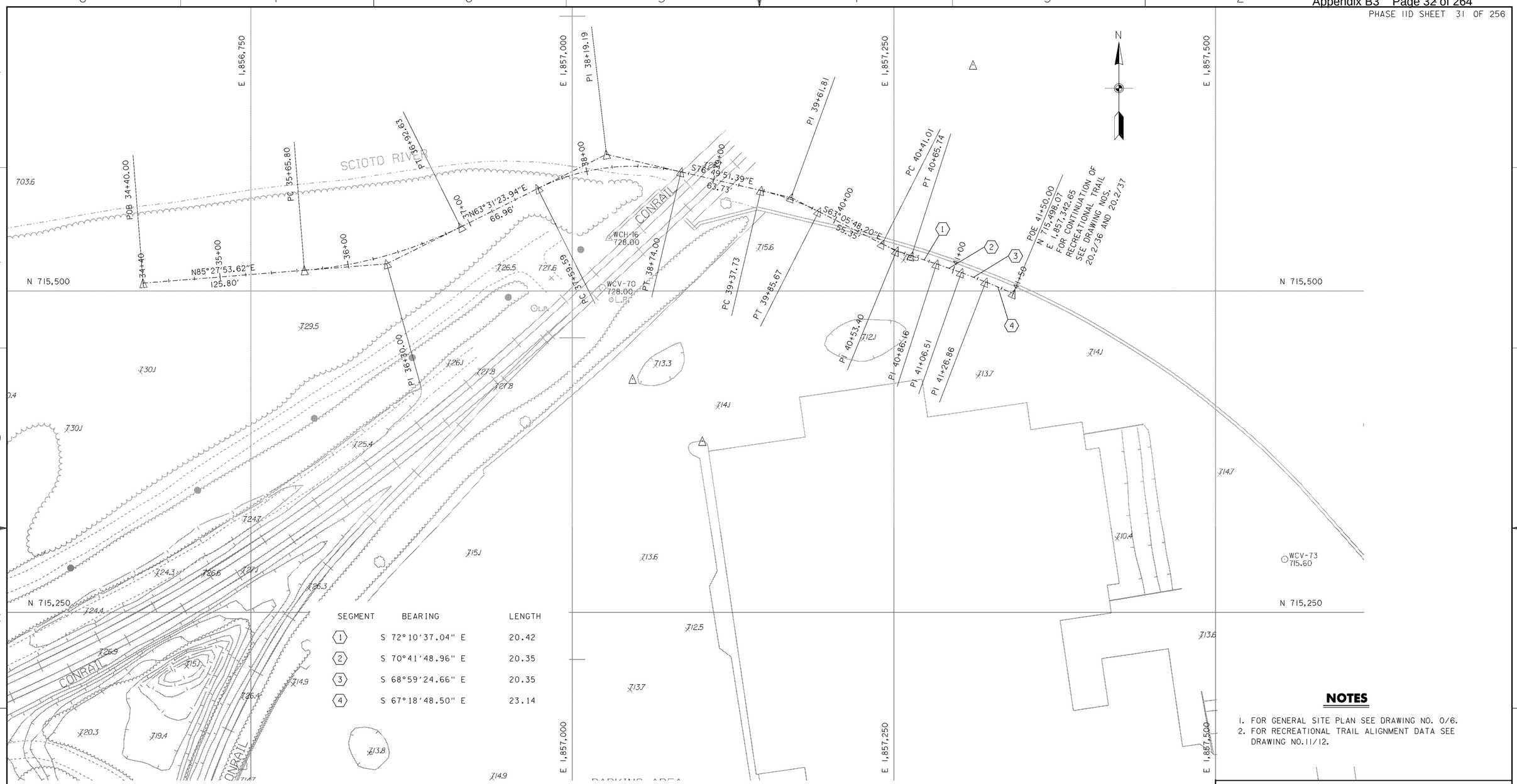
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HORIZONTAL ALIGNMENT (3 OF 3)

Scale: NONE
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/10
FILENAME: a0a5mt03.dgn
PEN TABLE:
Sheet 3 of 3

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 30'
30' 0 30'

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR RECREATIONAL TRAIL ALIGNMENT DATA SEE DRAWING NO.11/12.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RECREATIONAL TRAIL ALIGNMENT

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/11
FILENAME: 00a9cl01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

HORIZONTAL ALIGNMENT DATA FOR RECREATIONAL TRAIL

	STATION	NORTH(Y)	EAST(X)
Element: LINEAR			
POB	34+40.00	715506.121	1856666.275
PC	35+65.80	715516.068	1856791.681
Tangent Direction:	N 85°27'53.62" E		
Tangent Length:	125.800		
Element: CIRCULAR CURVE			
PC	35+65.80	715516.068	1856791.681
PI	36+30.00	715521.144	1856855.680
CC		715846.212	1856765.494
PT	36+92.63	715549.767	1856913.146
Curve Radius:	-331.181		
Curve Length:	126.827		
Total Central Angle:	21°56'29.67"		
1st Subtangent Distance:	64.200		
2nd Subtangent Distance:	64.200		
Element: LINEAR			
PT	36+92.63	715549.767	1856913.146
PC	37+59.59	715579.620	1856973.084
Tangent Direction:	N 63°31'23.94" E		
Tangent Length:	66.962		
Element: CIRCULAR CURVE			
PC	37+59.59	715579.620	1856973.084
PI	38+19.19	715606.194	1857026.437
CC		715431.613	1857046.803
PT	38+74.00	715592.615	1857084.474
Curve Radius:	165.350		
Curve Length:	114.414		
Total Central Angle:	39°38'44.67"		
1st Subtangent Distance:	59.604		
2nd Subtangent Distance:	59.604		
Element: LINEAR			
PT	38+74.00	715592.615	1857084.474
PC	39+37.73	715578.096	1857146.523
Tangent Direction:	S 76°49'51.39" E		
Tangent Length:	63.725		
Element: CIRCULAR CURVE			
PC	39+37.73	715578.096	1857146.523
PI	39+61.81	715572.609	1857169.976
CC		715383.356	1857100.958
PT	39+85.67	715561.710	1857191.455
Curve Radius:	200.000		
Curve Length:	47.941		
Total Central Angle:	13°44'03.19"		
1st Subtangent Distance:	24.086		
2nd Subtangent Distance:	24.086		
Element: LINEAR			
PT	39+85.67	715561.710	1857191.455
PC	40+41.01	715536.667	1857240.811
Tangent Direction:	S 63°05'48.20" E		
Tangent Length:	55.346		
Element: CIRCULAR CURVE			
PC	40+41.01	715536.667	1857240.811
PI	40+53.40	715531.062	1857251.858
CC		715675.783	1857311.399
PT	40+65.74	715527.270	1857263.651
Curve Radius:	-156.000		
Curve Length:	24.723		
Total Central Angle:	9°04'48.84"		
1st Subtangent Distance:	12.387		
2nd Subtangent Distance:	12.387		
Element: LINEAR			
PT	40+65.74	715527.270	1857263.651
PI	40+86.16	715521.020	1857283.092
Tangent Direction:	S 72°10'37.04" E		
Tangent Length:	20.421		
Element: LINEAR			
PI	40+86.16	715521.020	1857283.092
PI	41+06.51	715514.293	1857302.298
Tangent Direction:	S 70°41'48.96" E		
Tangent Length:	20.350		
Element: LINEAR			
PI	41+06.51	715514.293	1857302.298
PI	41+26.86	715506.997	1857321.295
Tangent Direction:	S 68°59'24.66" E		
Tangent Length:	20.350		
Element: LINEAR			
PI	41+26.86	715506.997	1857321.295
POE	41+50.00	715498.072	1857342.645
Tangent Direction:	S 67°18'48.50" E		
Tangent Length:	23.140		

VERTICAL ALIGNMENT DATA FOR RECREATIONAL TRAIL

	STATION	ELEVATION
Element: Linear		
POB	34+40.00	724.24
PVC	34+50.00	724.75
Tangent Grade:	5.0588	
Tangent Length:	10.00	
	STATION	ELEVATION
Element: Parabola		
PVC	34+50.00	724.75
PVI	35+25.00	728.54
PVT	36+00.00	724.73
VHIGH	35+24.89	726.64
Length:	150.00	
Entrance Grade:	5.0588	
Exit Grade:	-5.0740	
r = (g2 - g1) / L:	-6.7552	
K = l / (g2 - g1):	14.8034	
Middle Ordinate:	-1.90	
	STATION	ELEVATION
Element: Linear		
PVT	36+00.00	724.73
PVC	38+44.70	712.32
Tangent Grade:	-5.0740	
Tangent Length:	244.70	
	STATION	ELEVATION
Element: Parabola		
PVC	38+44.70	712.32
PVI	38+69.70	711.05
PVT	38+94.70	711.05
VLOW	38+94.70	711.05
Length:	50.00	
Entrance Grade:	-5.0740	
Exit Grade:	0.0000	
r = (g2 - g1) / L:	10.1480	
K = l / (g2 - g1):	9.8542	
Middle Ordinate:	0.32	
	STATION	ELEVATION
Element: Linear		
PVT	38+94.70	711.05
PVC	39+20.00	711.05
Tangent Grade:	0.0000	
Tangent Length:	25.30	
	STATION	ELEVATION
Element: Parabola		
PVC	39+20.00	711.05
PVI	39+40.00	711.05
PVT	39+60.00	712.05
VLOW	39+20.00	711.05
Length:	40.00	
Entrance Grade:	0.0000	
Exit Grade:	5.0000	
r = (g2 - g1) / L:	12.5000	
K = l / (g2 - g1):	8.0000	
Middle Ordinate:	0.25	
	STATION	ELEVATION
Element: Linear		
PVT	39+60.00	712.05
PVC	39+99.00	714.00
Tangent Grade:	5.0000	
Tangent Length:	39.00	
	STATION	ELEVATION
Element: Parabola		
PVC	39+99.00	714.00
PVI	40+19.00	715.00
PVT	40+39.00	715.00
VHIGH	40+39.00	715.00
Length:	40.00	
Entrance Grade:	5.0000	
Exit Grade:	0.0000	
r = (g2 - g1) / L:	-12.5000	
K = l / (g2 - g1):	8.0000	
Middle Ordinate:	-0.25	
	STATION	ELEVATION
Element: Linear		
PVT	40+39.00	715.00
PVI	41+50.00	715.00
Tangent Grade:	0.0000	
Tangent Length:	111.00	

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

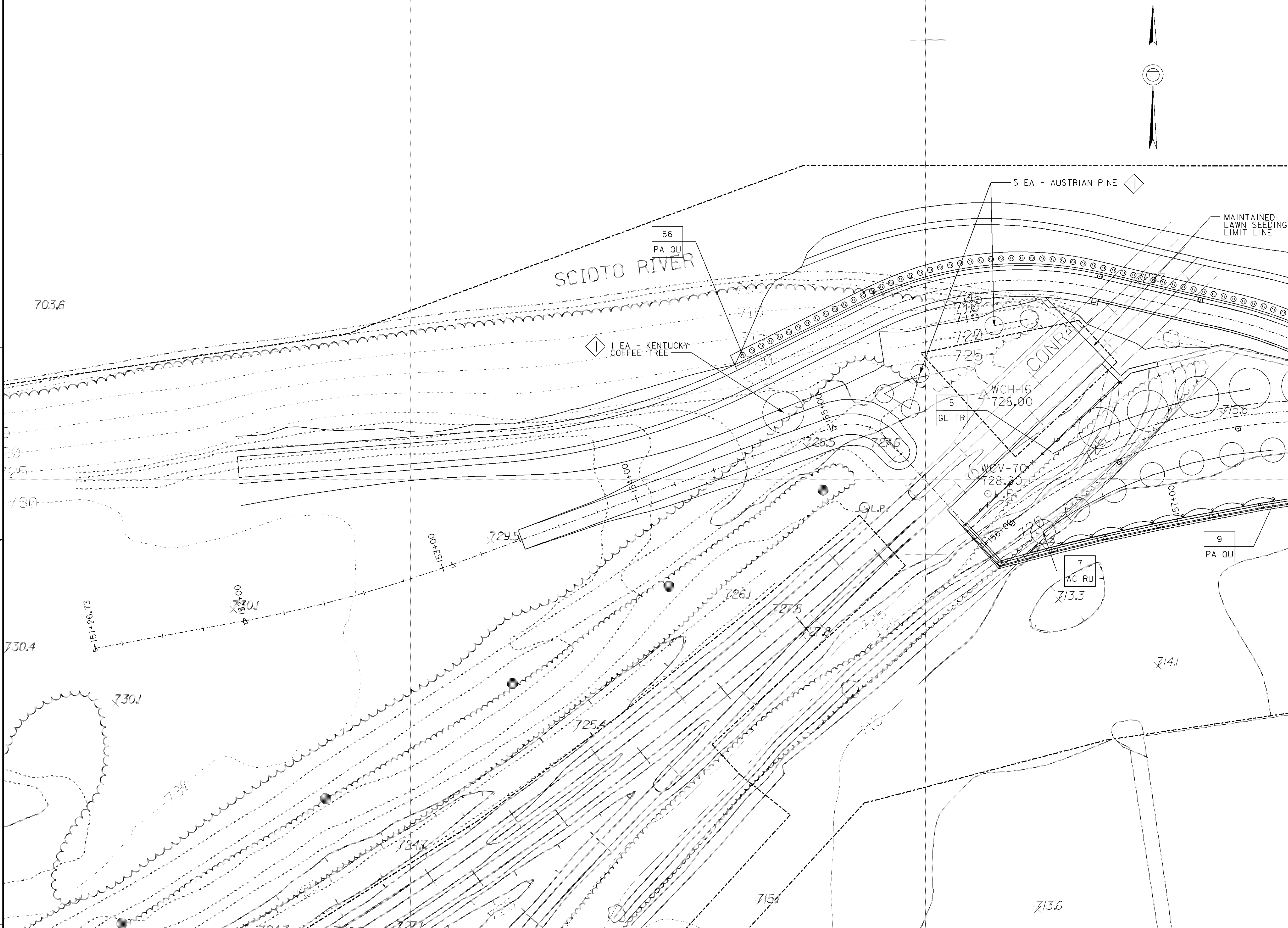
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RECREATIONAL TRAIL ALIGNMENT DATA

Scale: NONE
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 11/12
FILENAME: 00a9rt01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

SCALE: 1"=20'
20' 0 20'

GENERAL NOTES:

1) THE CONTRACTOR SHALL CONFIRM LOCATIONS OF ALL UTILITIES PRIOR TO PLANT INSTALLATION. CALL OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764

2) ALL DISTURBED AREAS TO RECEIVE SEED OR LANDSCAPE PLANTINGS AS INDICATED. NO AREAS ARE TO BE LEFT UNFINISHED.

3) SOIL PREPARATION AND FERTILIZATION OF ALL LAWN AND PLANTING AREAS TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

4) ANY QUANTITY DISCREPANCIES BETWEEN THE PLANT LIST AND THE PLANS SHALL BE RESOLVED AS FOLLOWS: THE PLANS SHALL DICTATE.

5) THE CONTRACTOR SHALL LOCATE AND STAKE ALL PROPOSED TREE AND SHRUB BED LINES FOR REVIEW BY THE CONTRACTING OFFICER PRIOR TO EXCAVATING FOR PLANTING. SPECIAL ATTENTION MUST BE GIVEN TO ALIGNMENT AND UNIFORM SPACING AS INDICATED ON THE PLAN. ANY VARIANCE SHALL NOT BE ACCEPTED UNLESS MODIFIED DURING STAKING REVIEW.

6) ALL TREE RINGS, SHRUB AND GROUND COVER BEDS ARE TO BE MULCHED WITH 3" DEPTH MULCH AS SPECIFIED. TREE RINGS AND BED EDGES ARE TO BE SMOOTH AND UNIFORM 'SPADE CUT' EDGES.

7) ALL PLANT MATERIAL IS SUBJECT TO INSPECTION BY THE CONTRACTING OFFICER PRIOR, DURING, AND AFTER INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS.

8) ORIENT AND TRAIN VINES TOWARD WALLS AND COLUMNS IN WHICH THEY ARE TO CLIMB OR COVER. COORDINATE WITH CLIMBING WIRE WHERE APPROPRIATE.

9) REPORT ANY FIELD TO PLAN DISCREPANCIES IMMEDIATELY TO THE CONTRACTING OFFICER FOR REVIEW TO DETERMINE IF MODIFICATION IS NECESSARY.

10) FOR MISCELLANEOUS LANDSCAPING DETAILS AND PLANT LIST, SEE DRAWING NO. 12/4.

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

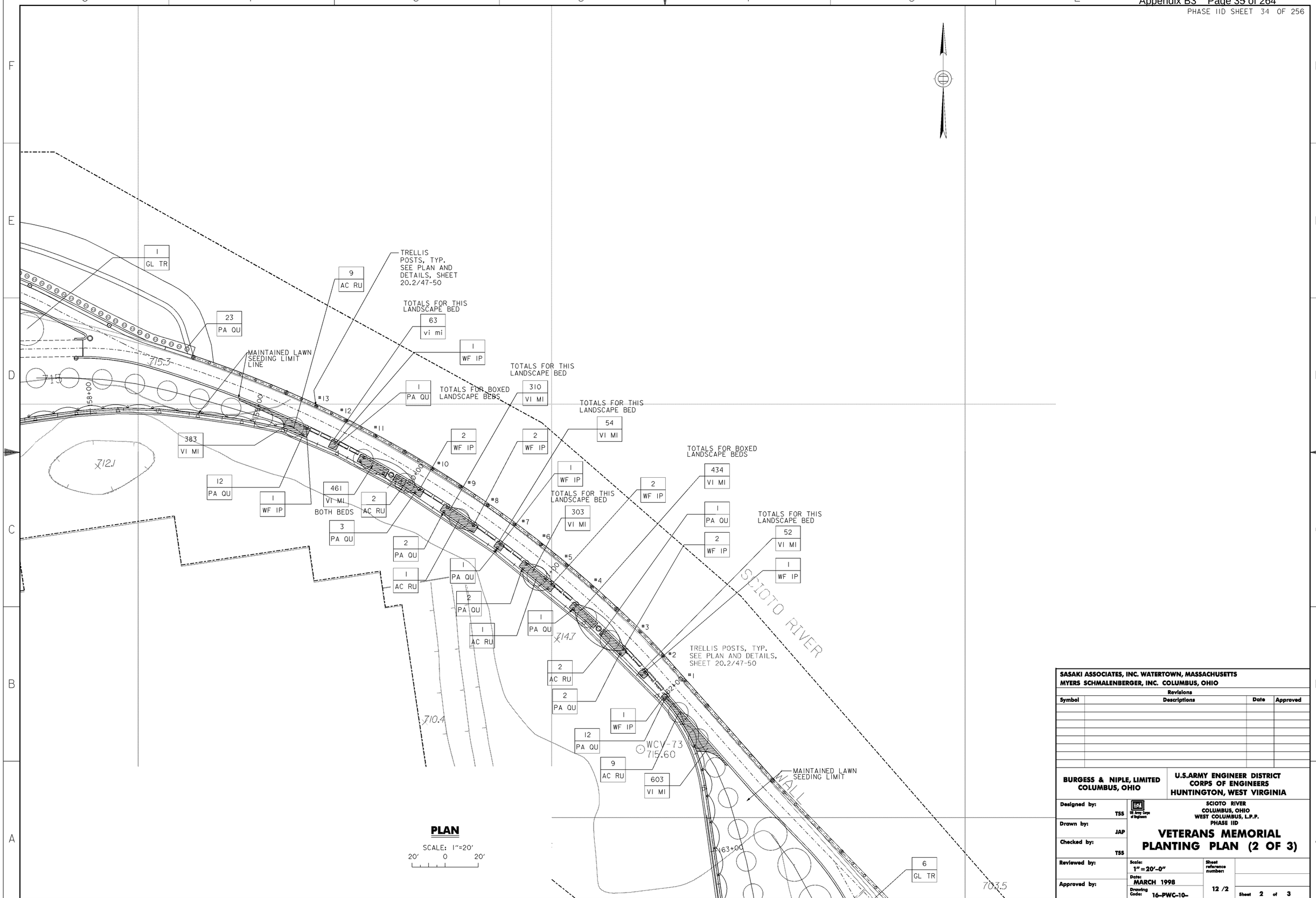
Symbol	Descriptions	Date	Approved
◇1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: TSS	US Army Corps of Engineers SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: JAP	**VETERANS MEMORIAL PLANTING PLAN (1 OF 3)**
Checked by: TSS	
Reviewed by:	Scale: 1"=20'-0" — Sheet reference number: 12 /1
Approved by:	Date: MARCH 1998 — Drawing Code: 16-PWC-10- — Sheet 1 of 3

WORK AS CONSTRUCTED



SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO			
Revisions			
Symbol	**Descriptions**	**Date**	**Approved**

BURGESS & NIPLE, LIMITED **COLUMBUS, OHIO**	**U.S.ARMY ENGINEER DISTRICT** **CORPS OF ENGINEERS** **HUNTINGTON, WEST VIRGINIA**
Designed by: TSS **Drawn by:** JAP **Checked by:** TSS **Reviewed by:** **Approved by:**	US Army Corps of Engineers **SCIOTO RIVER** **COLUMBUS, OHIO** **WEST COLUMBUS, L.P.P.** **PHASE IID** **VETERANS MEMORIAL PLANTING PLAN (2 OF 3)** **Scale:** 1" = 20'-0" **Date:** MARCH 1998 **Drawing Code:** 16-PWC-10- **Sheet reference numbers:** 12 /2 **Sheet** 2 **of** 3

WORK AS CONSTRUCTED

- EXISTING TREE TO BE REMOVED

PLAN

SCALE: 1"=20'

20' 0 20'

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: TSS
Drawn by: JAP
Checked by: TSS
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

VETERANS MEMORIAL PLANTING PLAN (3 OF 3)

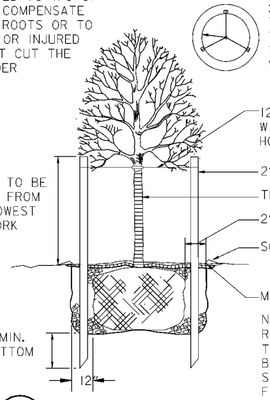
Scale: 1"=20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 12 /3
Sheet 3 of 3

WORK AS CONSTRUCTED

NOTE:
PRUNING LIMITED TO 1/3 OF BRANCHES TO COMPENSATE FOR LOSS OF ROOTS OR TO REMOVE DEAD OR INJURED LIMBS. DO NOT CUT THE CENTRAL LEADER

PLAN

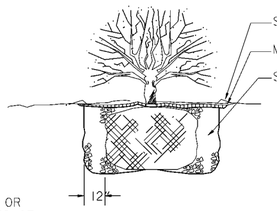
3 STAKES PER TREE FOR TREES OVER 3" CAL.
2 STAKES PER TREE FOR TREES UNDER 3" CAL.
TIGHTEN GUY WIRE WHEN TREE IS STRAIGHT TO PREVENT EXCESSIVE WIND MOVEMENT



NOTE:
REMOVE BURLAP AND WIRE OR TWINE FROM TOP AND SIDES OF BALL. CENTER TREE IN HOLE. SET TOP OF BALL 1-3" ABOVE FINISH GRADE.

1 12/4 DECIDUOUS TREE
NO SCALE

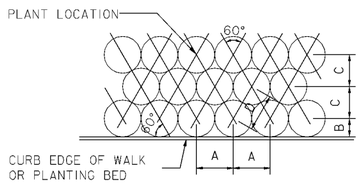
NOTE:
PRUNING LIMITED TO 1/3 OF BRANCHES TO COMPENSATE FOR LOSS OF ROOTS OR TO REMOVE DEAD OR INJURED LIMBS. REMOVE BURLAP AND WIRE OR TWINE FROM TOP AND SIDES OF BALL. CENTER SHRUB IN HOLE. SET TOP OF BALL 1-3" ABOVE FINISH GRADE.



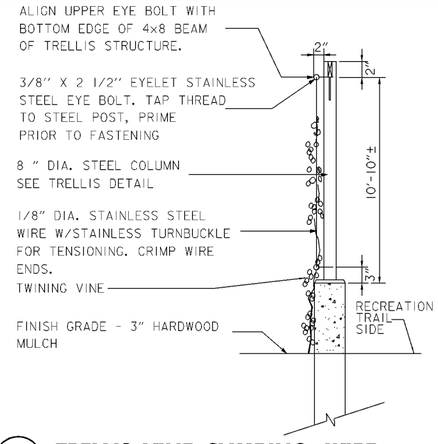
2 12/4 DECIDUOUS SHRUB
NO SCALE

SPACING	A	B	C	D
12"	12"	6"	10"	12"
18"	18"	8"	15"	18"
24"	24"	10"	20"	24"
36"	36"	18"	31"	36"
48"	48"	21"	41"	48"

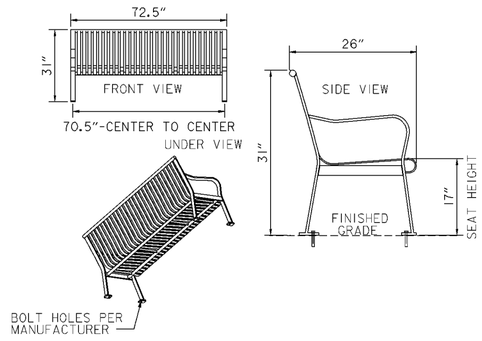
A = SPACING
B = SP/2
C = SP/1.2
D = SPACING



3 12/4 SHRUB/GND. CVR. SPACING
NO SCALE

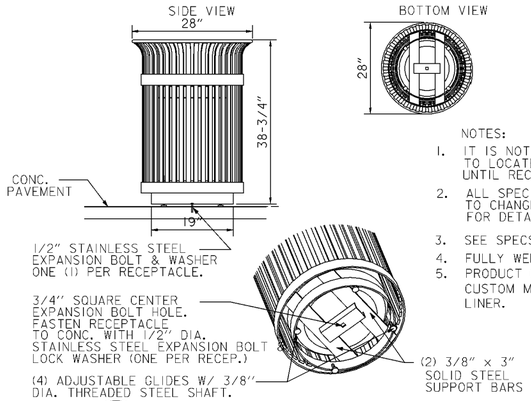


4 12/4 TRELLIS VINE CLIMBING WIRE
NO SCALE



NOTES:
1. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL BENCH IS IN PLACE.
2. FASTEN BENCH TO CONCRETE PAVEMENT WITH 3/8" DIA. X 2" LONG STAINLESS STEEL EXPANSION BOLT & WASHER (4 PER BENCH), W/ TAMPER PROOF HEADS.
3. SEE SPECIFICATIONS FOR FINISH.

5 12/4 BENCH DETAILS
NO SCALE



NOTES:
1. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL RECEPTACLE IS IN PLACE.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT FACTORY FOR DETAILS.
3. SEE SPECS. FOR COLOR AND FINISH.
4. FULLY WELD JOINTS THROUGHOUT.
5. PRODUCT COMES WITH A POLYETHYLENE CUSTOM MOLDED, FIRE RESISTANT LINER.

6 12/4 TRASH RECEPTACLE DETAIL
NOT TO SCALE

PLANT LIST

CODE	EST. QTY.	BOT. NAME/COMMON NAME	SIZE	CONDITION	SPACING
DECIDUOUS TREES					
GL TR	12	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER HONEYLOCUST	3" CAL.	B+B	AS SHOWN
AC RU	31	ACER RUBRUM 'ARMSTRONG' ARMSTRONG RED MAPLES	3" CAL.	B+B	AS SHOWN
MA SP	18	MALUS 'SPRING SNOW' SPRING SNOW CRABAPPLE	3" CAL.	B+B	AS SHOWN
EVERGREEN SHRUBS					
TA DE	68	TAXUS DENSIFORMIS DENSE YEW	2' HT.	5 CAL.	4' O.C.
VINES/GROUNDCOVERS					
VI MI	2663	VINCA MINOR BLUE MYRTLE	2 1/4" POTS	P.P. 50/FLAT	8" O.C.
PA QU	125	PARTHENOCISSUS QUINQUEFOLIA VIRGINIA CREEPER	9" HT.	#1 CONT.	AS SHOWN
WF IP	13	WISTERIA FLORIBUNDA 'ISSA PERFECT' ISSA PERFECT WISTERIA	--	STAKED #5 CONT. MIN. 36" HT. WOODY STEM	AS SHOWN
<1>	5	AUSTRIAN PINE	6' HT.	B+B	AS LAYED OUT
	1	KENTUCKY COFFEE TREE	2" CAL.	B+B	AS LAYED OUT
	5	PATMORE ASH	3" CAL.	B+B	AS LAYED OUT
	3	ENGLISH OAK	MATCH RIVER FRONT		AS LAYED OUT
	942	BLUE MYRTLE	2 1/4" POTS	50/FLAT	AS LAYED OUT

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS-SCHMALENBURGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved
<1>	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: TSS
Drawn by: JAP
Checked by: TSS
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MISC. LANDSCAPING DETAILS (PLANTING)

Scale: AS NOTED
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 12/4
FILENAME: PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

1 **PLAN**

SCALE: 1"=20'

20' 0 20'

GENERAL NOTES:

1) MAINLINE PIPING SHALL BE BURIED A MINIMUM OF 16" OF COVER AND A MAXIMUM OF 24" OF COVER. LATERAL LINE PIPING A MIN. OF 12" OF COVER. ALL BACKFILL SURROUNDING THE PIPE SHALL BE SCREENED AND CLEANED OF MATERIAL LARGER THAN 1" IN SIZE. BACKFILL SHALL BE ADDED IN 6" INCREMENTS AND MECHANICALLY TAMPED.

2) SYSTEM REQUIREMENTS ARE 35 GPM @ 85 PSI AT POINT OF CONNECTION. PRESSURE REQUIREMENTS ARE 45 PSI THRU THE ROTARY HEADS AND 30 PSI AT THE FIXED SPRAY HEADS.

3) UNMARKED PIPING SHALL BE 1" PVC PIPE UNLESS OTHERWISE NOTED.

4) PIPE SHOWN IN PAVED AREA WITHOUT SLEEVE SHALL BE LOCATED INSIDE OF AND WITHIN 12" OF CURB OR EDGE OF WALK.

5) NOTE ZONES THAT ARE SERVICING SHRUB & GROUND COVER AREAS. OVERSPRAY FROM TURF ZONES INTO SHRUB & GROUND COVER AREAS IS TO BE AVOIDED.

6) FOR MISCELLANEOUS IRRIGATION DETAILS, SEE DRAWING NO. 12/7

IRRIGATION PIPE TABLE

LENGTH	SYMBOL	PIPE
2820	-	1" 200 PSI SDR 21 PVC PIPE ENGLISH UNITS
870	-	1½" 200 PSI SDR 21 PVC PIPE ENGLISH UNITS
190	-	1¼" 200 PSI SDR 21 PVC PIPE ENGLISH UNITS
922	-	2" 200 PSI SDR 21 PVC PIPE ENGLISH UNITS
50	-	6" 200 PSI SDR 21 PVC PIPE ENGLISH UNITS

IRRIGATION EQUIPMENT TABLE

QUANTITY	SYMBOL	EQUIPMENT
4	⊗	QB5RC-10 QUICK COUPLER VALVE
1	⊡	RAINBIRD ESP-12 SAT-2S, 12 STATION CONTROLLER
1	⊓	FEBCO 825 SERIES 1½" REDUCED PRESSURE ASSEMBLY
1	⊡	METER
19	⊗	HUNTER ICV SERIES ZONE VALVE
1	⊕	HUNTER MINI-CLIK RAIN SENSOR

IRRIGATION HEADS TABLE

QUANTITY	SYMBOL	EQUIPMENT
5	●	QB5RC-10 QUICK COUPLER VALVE
33	⊖	HUNTER SRS MODEL -10A 180
6	◔	HUNTER SRS MODEL -10A 90
7	○	HUNTER SRS MODEL CST
19	◔	HUNTER SRS MODEL EST
10	◔	HUNTER SRS MODEL SST
15	▼	HUNTER PGP NOZZLE 2.0 ADJ
12	◆	HUNTER PGP NOZZLE 7 ADJ
15	✱	HUNTER I-25/31 PLUS I-25-#10- LT GREEN ADJ
1	✱	HUNTER I-25/31 PLUS I-25-#7- ORANGE ADJ
5	■	HUNTER PGP NOZZLE 8 360
4	◆	HUNTER PGP NOZZLE 6 ADJ
4	▼	HUNTER PGP NOZZLE 1.5 ADJ
6	⊖	HUNTER SRS-04 MODEL -15A 180
1	▼	HUNTER PGM NOZZLE 3.0 360

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: WFC
Drawn by: TS
Checked by: TSS
Reviewed by:
Approved by:

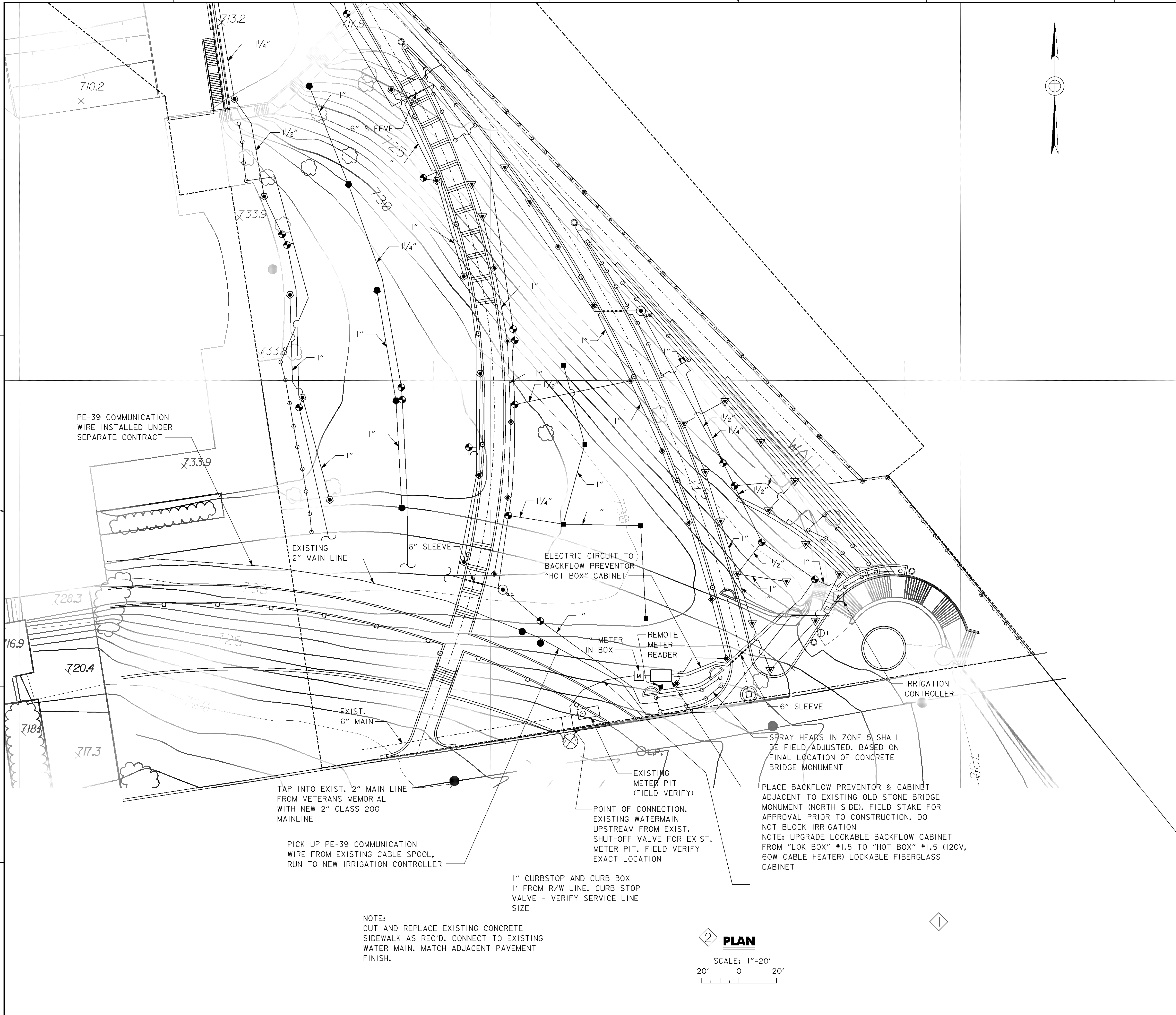
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

VETERANS MEMORIAL IRRIGATION PLAN (1 OF 2)

Scale: 1"=20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 12 /5
Sheet 1 of 2

WORK AS CONSTRUCTED



GENERAL NOTES:

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LENGTH	SYMBOL	PIPE
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190	-	1¼" 200 PSI SDR 21 PVC PIPE ENGLISH UNITS
922	-	2" 200 PSI SDR 21 PVC PIPE ENGLISH UNITS
50	-	6" 200 PSI SDR 21 PVC PIPE ENGLISH UNITS

IRRIGATION EQUIPMENT TABLE

QUANTITY	SYMBOL	EQUIPMENT
4	⊕	QB5RC-10 QUICK COUPLER VALVE
1	⊡	RAINBIRD ESP-12 SAT-2S, 12 STATION CONTROLLER
1	⊼	FEBCO 825 SERIES 1½' REDUCED PRESSURE ASSEMBLY
1	⊡	METER
19	●	HUNTER ICV SERIES ZONE VALVE
1	⊕	HUNTER MINI-CLIK RAIN SENSOR

IRRIGATION HEADS TABLE

QUANTITY	SYMBOL	EQUIPMENT
5	●	QB5RC-10 QUICK COUPLER VALVE
33	⊖	HUNTER SRS MODEL -10A 180
6	◷	HUNTER SRS MODEL -10A 90
7	○	HUNTER SRS MODEL CST
19	⊖	HUNTER SRS MODEL EST
10	⊖	HUNTER SRS MODEL SST
15	▼	HUNTER PGP NOZZLE 2.0 ADJ
12	◆	HUNTER PGP NOZZLE 7 ADJ
15	●	HUNTER I-25/31 PLUS I-25-#10- LT GREEN ADJ
1	●	HUNTER I-25/31 PLUS I-25-#7- ORANGE ADJ
5	■	HUNTER PGP NOZZLE 8 360
4	◆	HUNTER PGP NOZZLE 6 ADJ
4	▼	HUNTER PGP NOZZLE 1.5 ADJ
6	⊖	HUNTER SRS-04 MODEL -15A 180
1	▼	HUNTER PGM NOZZLE 3.0 360

Revisions

Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REVISED IN ACCORDANCE WITH MC0032	8/9/00	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: WPC
Drawn by: TS
Checked by: TSS
Reviewed by:
Approved by:

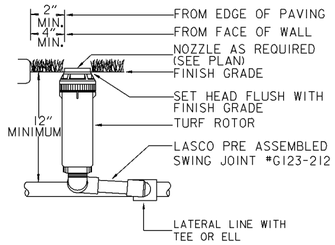
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

VETERANS MEMORIAL
IRRIGATION PLAN (2 OF 2)

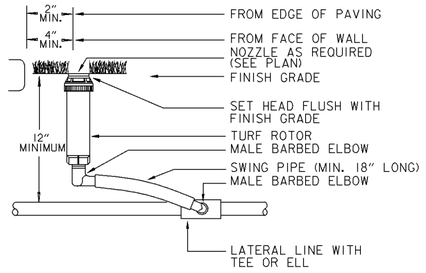
Scale: 1" = 20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 12 /6
Sheet 2 of 2

WORK AS CONSTRUCTED

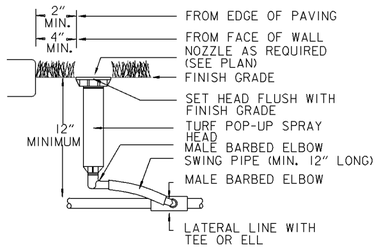


CLOSED CASE POP-UP ROTOR WITH WATER LUBRICATED GEAR DRIVE. 2" EXPOSED DIAMETER AND STANDARD RUBBER COVER. UNIVERSAL SELF-ADJUSTING STATOR, PRESSURE ACTIVATED MULTI-FUNCTION WIPER SEAL. STANDARD SEAL-A-MATIC (SAM) CABABLE OF HOLDING 10 FEET OF HEAD.

1 12/7 TURF ROTARY HEAD
FALCON - N.T.S.

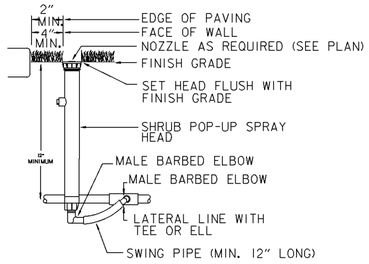


2 12/7 TURF ROTARY HEAD
T-BIRD 4" - N.T.S.



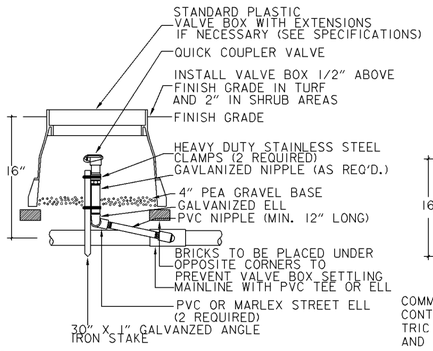
FOR ADDITIONAL INFORMATION, SEE NOTE 1 BELOW.

3 12/7 TURF HEAD POP-UP
1804 SAM-PRS - N.T.S.



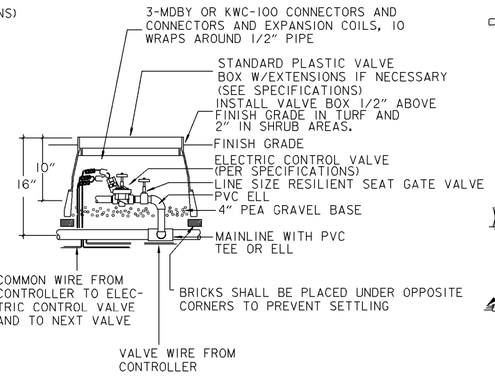
FOR ADDITIONAL INFORMATION, SEE NOTE 1 BELOW.

4 12/7 SHRUB HEAD POP-UP
1812 SAM-PRS - N.T.S.

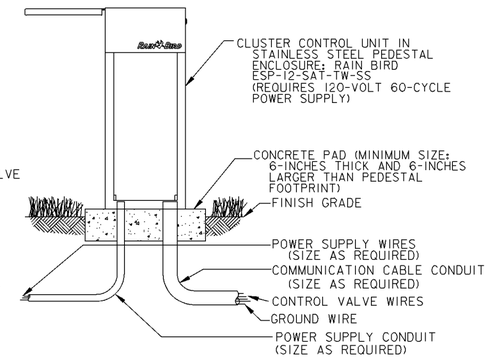


NOTE:
ONE (1) 1" RESILIENT SEAT GATE VALVE TO BE INSTALLED IN VALVE BOX WITH EACH QUICK-COUPLING VALVE.

5 12/7 5rc QUICK COUPLING VALVE
N.T.S.



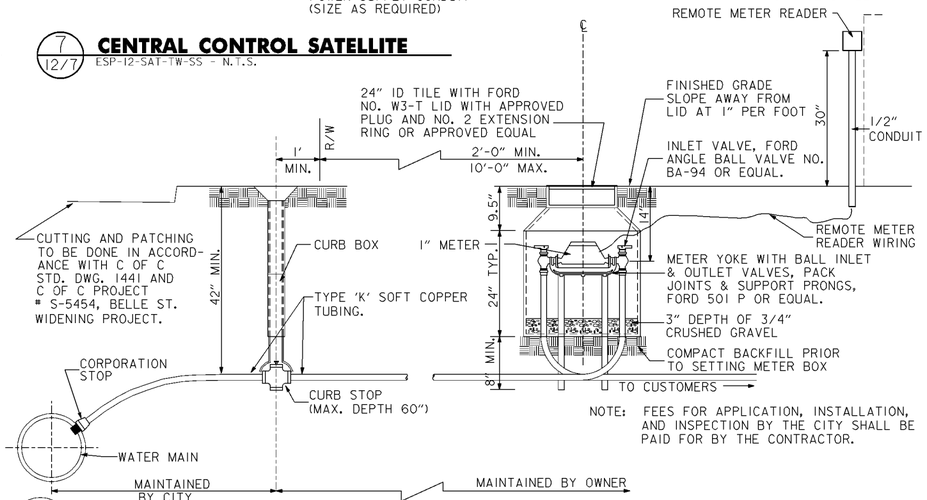
6 12/7 ELECTRIC REMOTE CONTROL VALVE
PEB - N.T.S.



7 12/7 CENTRAL CONTROL SATELLITE
ESP-12-SAT-TW-SS - N.T.S.

NOTE (FOR DETAILS 3 AND 4 ABOVE).

1. POP-UP SPRAY TYPE WITH PRESSURE ACTIVATED CO-MOLDED WIPER SEAL WITH .05 GPM FLOW-BY 0-8 PSI, 0 FLOW-BY AT 8 PSI OR GREATER. RATCHET CAPABILITY (FOR EASY NOZZLE ALIGNMENT). INTERCHANGEABLE NOZZLES THAT ARE MATCHED PRECIPITATION RATE (MPR) ACROSS SETS AND ACROSS PATTERNS, (31 MPR PLASTIC NOZZLES AND 15 MPR BRASS NOZZLES). SEAL-A-MATIC (SAM) CAPABILITY OF HOLDING UP TO 8 FEET OF HEAD. PRESSURE REGULATING (PRS) NOT PRESSURE COMPENSATING, REGULATES NOZZLE PRESSURE TO AN AVERAGE OF 30 PSI WITH INLET PRESSURES UP TO 70 PSI. BUILT-IN STEM REGULATOR PROVIDES FLOW RESTRICTION WHICH CUTS WATER LOSS BY UP TO 70% IF NOZZLE IS REMOVED OR DAMAGED. USE BOTTOM INLET ONLY.



NOTE: FEES FOR APPLICATION, INSTALLATION, AND INSPECTION BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR.

8 12/7 POINT OF CONNECTION - CITY OF COLUMBUS STANDARD DETAIL
N.T.S.

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS-SCHMALENBURGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: WFC
Drawn by: TS
Checked by: TSS
Reviewed by:
Approved by:

US Army Corps of Engineers

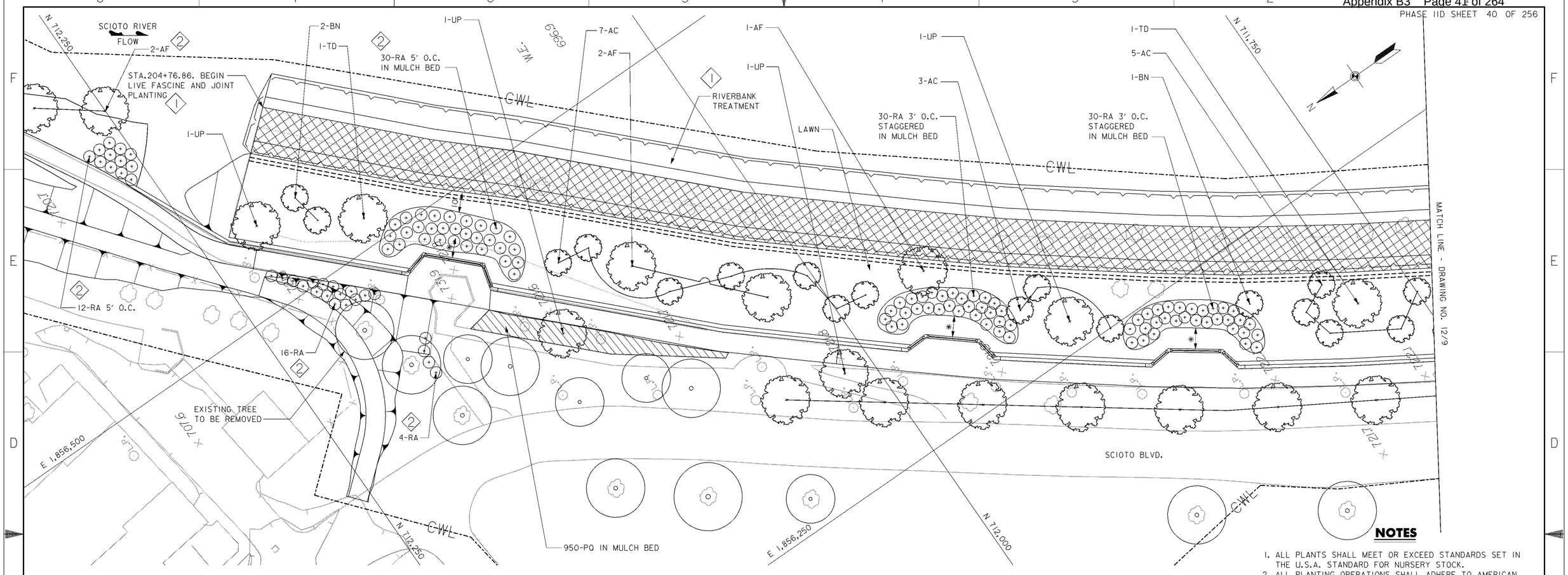
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MISC. LANDSCAPING DETAILS (IRRIGATION)

Scale: AS NOTED
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 12/7
FILENAME: PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

PHASE IID SHEET 40 OF 256



PLAN

SCALE: 1" = 20'

20' 0 20'

* MINIMUM 10' LAWN STRIP AROUND ALL BEDS, TYPICAL.

LEGEND

- PROPOSED SHRUB (RHUS AROMATICA 'GRO-LOW')
- PROPOSED EVERGREEN TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED DECIDUOUS CANOPY TREE
- EXISTING TREE TO REMAIN
- JOINT PLANTING ◇1
- LIVE FASCINE ◇1

NOTES

1. ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET IN THE U.S.A. STANDARD FOR NURSERY STOCK.
2. ALL PLANTING OPERATIONS SHALL ADHERE TO AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS.
3. CONTRACTOR SHALL CONFIRM LOCATION OF ALL UTILITIES AND SUBSURFACE UTILITIES PRIOR TO PLANT INSTALLATION.
4. PLANT LOCATIONS AND BEDS SHALL BE LOCATED BY CONTRACTOR AND APPROVED BY CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL SEED ALL AREAS DISTURBED DURING CONSTRUCTION.
6. PLANTING BEDS SHALL HAVE MINIMUM 3" DEEP SHREDDED HARDWOOD BARK MULCH.
7. INSTALL ALL PLANTS IN ACCORDANCE WITH PLANTING DETAILS.
8. ALL PLANTING BEDS TO BE TILLED AND BACKFILLED WITH TOPSOIL TO A MINIMUM DEPTH OF 12".
9. LAWN AREAS TO BE BACKFILLED WITH 6" DEPTH TOPSOIL.
10. ALL PLANTING BEDS TO BE FERTILIZED WITH 10-10-10- OR APPROVED EQUAL.
11. CONTRACTOR TO VERIFY PLANT LIST QUANTITIES FROM THE PLAN.
12. FOR DODGE PARK RIVERBANK TREATMENT PLAN AND TYPICAL SECTION SEE DRAWING NOS. 20.2/24 AND 20.2/25.

Revisions			
Symbol	Descriptions	Date	Approved
◇2	REVISED AS CONSTRUCTED	7/02	P.O.C.
◇1	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.KRAMER
Drawn by: T.MULLINS
Checked by: R.MORSE
Reviewed by: P.CONROY
Approved by:

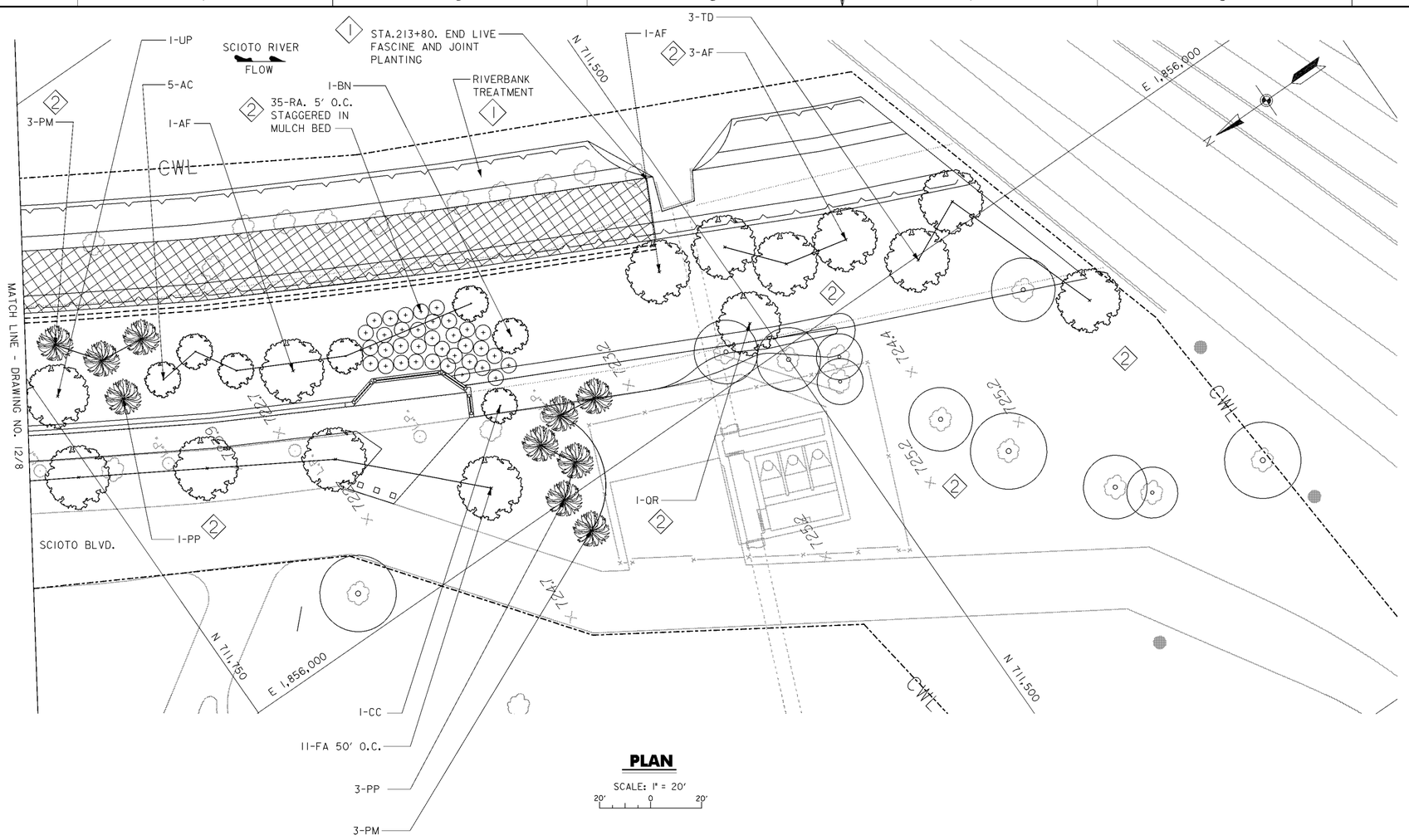
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

DODGE PARK LANDSCAPE PLAN(1 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 12/8
FILENAME: a0lspa05.dgn
PEN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'
20' 0 20'

LEGEND

- PROPOSED SHRUB (RHUS AROMATICA 'GRO-LOW')
- PROPOSED EVERGREEN TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED DECIDUOUS CANOPY TREE
- EXISTING TREE TO REMAIN
- JOINT PLANTING
- LIVE FASCINE

NOTES

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10. ALL PLANTING BEDS TO BE FERTILIZED WITH 10-10-10- OR APPROVED EQUAL.
11. CONTRACTOR TO VERIFY PLANT LIST QUANTITIES FROM THE PLAN.
12. FOR DODGE PARK RIVERBANK TREATMENT PLAN AND TYPICAL SECTION SEE DRAWING NOS. 20.2/24 AND 20.2/25.

Revisions			
Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.KRAMER
Drawn by: T.MULLINS
Checked by: R.MORSE
Reviewed by: P.CONROY
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

DODGE PARK LANDSCAPE PLAN(2 OF 2)

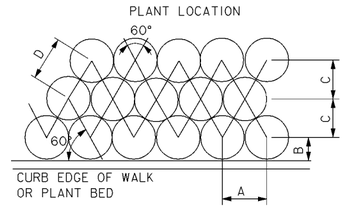
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 129
FILENAME: a01spa06.dgn
PEN TABLE:
Sheet 2 of 2

WORK AS CONSTRUCTED

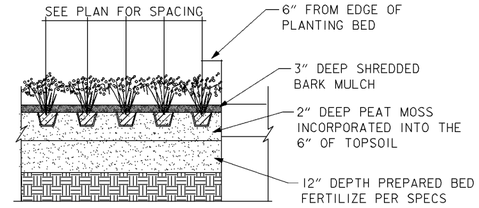
PLANT LIST (DODGE PARK)

KEY	QUAN.	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
		SHADE TREES				
② AF	14	ACER FREEMANII 'AUTUMN BLAZE'	AUTUMN BLAZE MAPLE	2" CAL.	B&B	
FA	11	FRAXINUS AMERICANA 'AUTUMN PURPLE'	AUTUMN PURPLE ASH	3" CAL.	B&B	
OR	2	QUERCUS RUBRA	RED OAK	3" CAL.	B&B	
TD	5	TAXODIUM DISTICHUM	BALD CYPRESS	2" CAL.	B&B	
② UP	5	ULMUS PARVIFOLIA	CHINESE ELM	2" CAL.	B&B	
		EVERGREEN TREES				
PM	7	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6' HT.	B&B	
PP	3	PICEA PUNGENS	COLORADO SPRUCE	6' HT.	B&B	
		ORNAMENTAL TREES				
AC	20	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	5- 6' HT.	B&B	
BN	4	BETULA NIGRA	RIVER BIRCH	12' HT.	B&B	
CC	1	CERCIS CANADENSIS	REDBUD	5- 6' HT.	B&B	
		SHRUBS				
② RA	201	RHUS AROMATICA "GRO-LOW"	FRAGRANT SUMAC "GRO-LOW"	18"	B&B OR NO.5 CONT.	
		GROUNDCOVERS				
PQ	950	PARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	1 GAL.	CONT.	12" O.C.

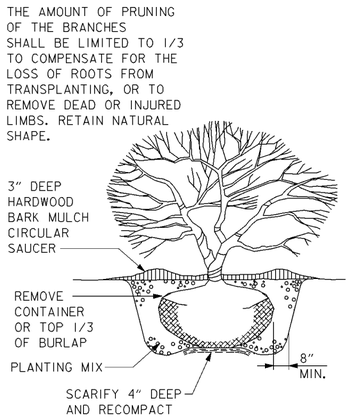
SPACING	A	B	C	D	
12"	12"	6"	10"	12"	A=SPACING
18"	18"	8"	15"	12"	B=SPACING/2
24"	24"	10"	20"	24"	C=SPACING/1.2
48"	48"	21"	41"	48"	D=SPACING



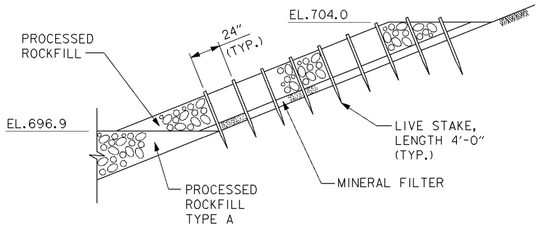
SHRUB AND PERENNIAL SPACING
SCALE: NONE



POTTED PLANTING
SCALE: NONE

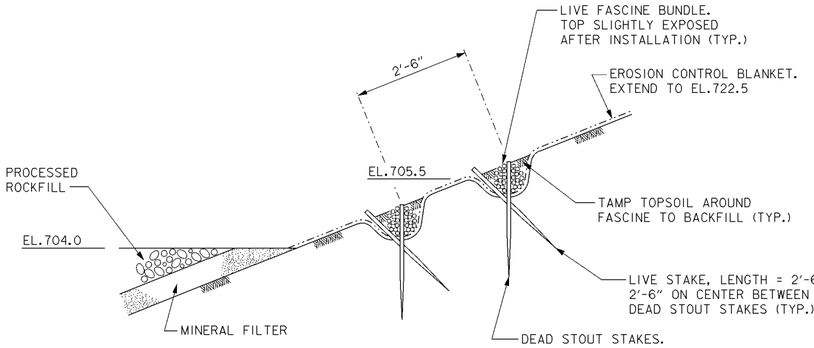


SHRUB PLANTING
SCALE: NONE

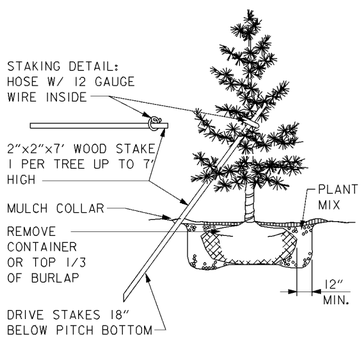


NOTE:
STAGGER ADJACENT ROWS OF LIVE STAKES BY OFFSET OF 12".

JOINT PLANTING DETAIL
SCALE: 1/4" = 1'-0"

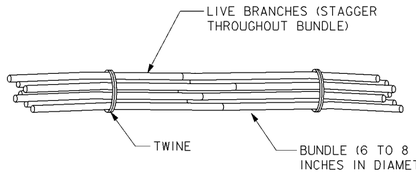


LIVE FASCINE DETAIL
SCALE: 3/4" = 1'-0"



EVERGREEN TREE PLANTING UNDER 7' HEIGHT
SCALE: NONE

NOTES:
1. LIVE FASCINE SHALL CONSIST OF RIVER BIRCH (BETULA NIAGRA), WILLOW (SALIX, SPP.) OR ALDER (ALNUS, SPP.).
2. LIVE STAKES SHALL CONSIST OF WILLOW (SALIX, SPP.) OR RIVER BIRCH (BETULA NIAGRA).
3. LIVE STAKES SHALL BE 1½" MINIMUM DIAMETER WITH SIDE BRANCHES REMOVED AND BARK INTACT.



FASCINE BUNDLE DETAIL
SCALE: NONE

NOTES:
1. BUNDLE LENGTHS MAY VARY BETWEEN 5 AND 10 FEET. PROVIDE EXTRA DEAD STOUT STAKES THROUGH BUNDLE ENDS.
2. CUTTINGS FOR FASCINE SHALL BE LONG AND STRAIGHT WITH ½" MAX. DIAMETER.

NOTES

1. FOR DECIDUOUS TREE PLANTING DETAIL SEE DRAWING NO. 12/4.
2. FOR DODGE PARK RIVERBANK TREATMENT TYPICAL SECTION SEE DRAWING NO. 20.2/25.

RIVERBANK TREATMENT LANDSCAPING DETAILS
STA.204+76.86 TO STA.213+80

Revisions			
Symbol	Descriptions	Date	Approved
①	REVISED AS CONSTRUCTED	7/02	P.O.C.
②	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

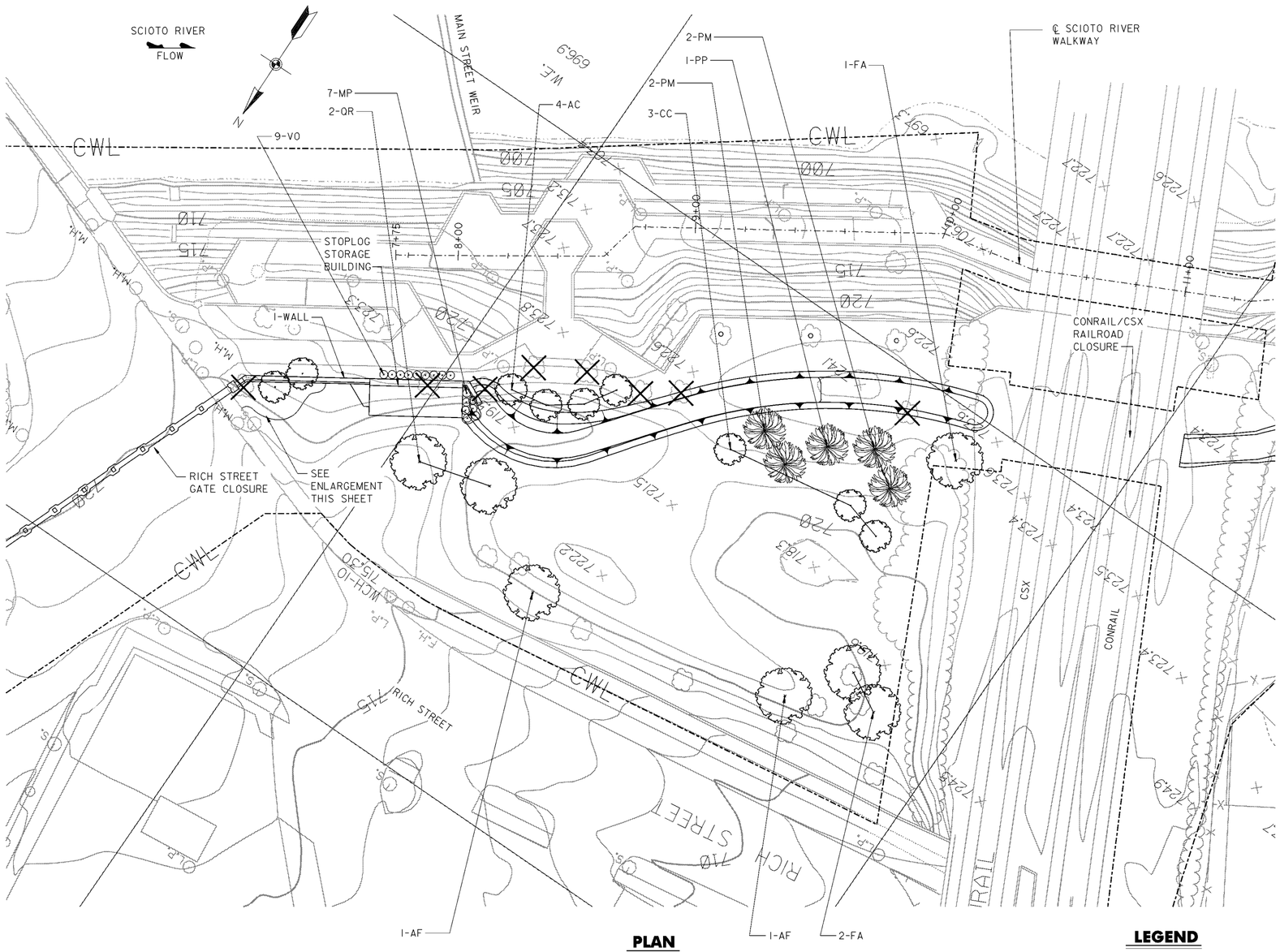
Designed by: J.KRAMER
Drawn by: T.MULLINS
Checked by: R.MORSE
Reviewed by: P.CONROY
Approved by:

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MISCELLANEOUS LANDSCAPING DETAILS

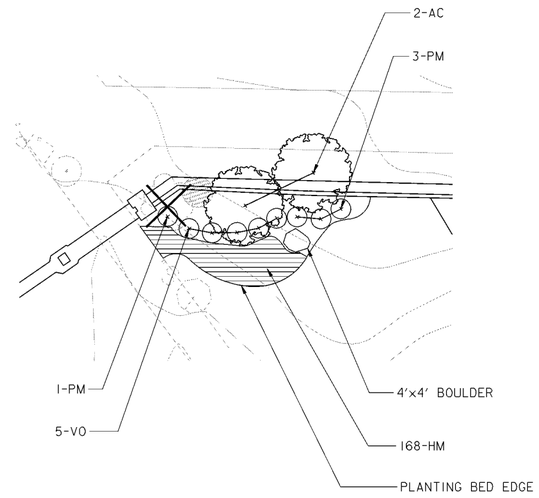
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 12/10
FILENAME: a01ad101.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'
20' 0 20'



ENLARGEMENT PLAN

SCALE: 1" = 10'
10' 0 10'

PLANT LIST (RICH STREET)

KEY	QUAN.	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
		SHADE TREES				
AF	2	ACER FREEMANII "AUTUMN BLAZE"	AUTUMN BLAZE MAPLE	2" CAL.	B&B	
FA	3	FRAXINUS AMERICANA "AUTUMN PURPLE"	AUTUMN PURPLE WHITE ASH	2" CAL.	B&B	
OR	2	QUERCUS RUBRA	RED OAK	2" CAL.	B&B	
		EVERGREEN TREES				
PP	1	PICEA PUNGENS	COLORADO GREEN SPRUCE	8' HT.	B&B	
PM	4	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6' HT.	B&B	
		ORNAMENTAL TREES				
AC	6	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	12' HT.	B&B	MULTI-TRUNK
CC	3	CERCIS CANADENSIS	REDBUD	8' HT.	B&B	MULTI-TRUNK
		SHRUBS				
PM	4	PINUS MUGO	MUGO PINE	30"	B&B	
MP	7	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	24"	B&B	
VO	14	VIBURNUM OPULUS "COMPACTUM"	COMPACT EUROPEAN CRANBERRY BUSH	24"	B&B	
		SHRUBS				
HM	168	HEMEROCALLIS "STELLA D' ORO"	STELLA D' ORO DAYLILY	1 QT.	CONT.	1' O.C.

LEGEND

- PROPOSED ORNAMENTAL GRASS (PENNISETUM ALOPECUROIDES 'HAMELN')
- PROPOSED PERENNIALS
- PROPOSED GROUNDCOVER (PARTHENOCISSUS QUINQUEFOLIA)
- PROPOSED GROUNDCOVER (LONICERA JAPONICA 'HALLIANA')
- PROPOSED SHRUB (RHUS AROMATICA 'GRO-LOW')
- PROPOSED EVERGREEN TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED DECIDUOUS CANOPY TREE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN - UNLESS OTHERWISE DESIGNATED BY CONTRACTING OFFICER
- EXISTING LIGHT POLE, FIXTURE AND ELECTRICAL WIRING TO BE REMOVED TO CONCRETE BASE. ELECTRICAL WIRING TO BE CAPPED FOR FUTURE USE.

NOTES

1. ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET IN THE U.S.A. STANDARD FOR NURSERY STOCK.
2. ALL PLANTING OPERATIONS SHALL ADHERE TO AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS.
3. CONTRACTOR SHALL CONFIRM LOCATION OF ALL UTILITIES AND SUBSURFACE UTILITIES PRIOR TO PLANT INSTALLATION.
4. PLANT LOCATIONS AND BEDS SHALL BE LOCATED BY CONTRACTOR AND APPROVED BY CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL SEED ALL AREAS DISTURBED DURING CONSTRUCTION.
6. PLANTING BEDS SHALL HAVE MINIMUM 3" DEEP SHREDDED HARDWOOD BARK MULCH.
7. INSTALL ALL PLANTS IN ACCORDANCE WITH PLANTING DETAILS.
8. ALL PLANTING BEDS TO BE TILLED AND BACKFILLED WITH TOPSOIL TO A MINIMUM DEPTH OF 12".
9. LAWN AREAS TO BE BACKFILLED WITH 6" DEPTH TOPSOIL.
10. ALL PLANTING BEDS TO BE FERTILIZED WITH 10-10-10- OR APPROVED EQUAL.
11. CONTRACTOR TO VERIFY PLANT LIST QUANTITIES FROM THE PLAN.
12. FOR ADDITIONAL CLEARING AND TREE REMOVAL REQUIREMENTS SEE DRAWING NOS. 16/9 AND 107/3.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.KRAMER
Drawn by: T.MULLINS
Checked by: R.MORSE
Reviewed by: P.CONROY
Approved by:

US Army Corps of Engineers

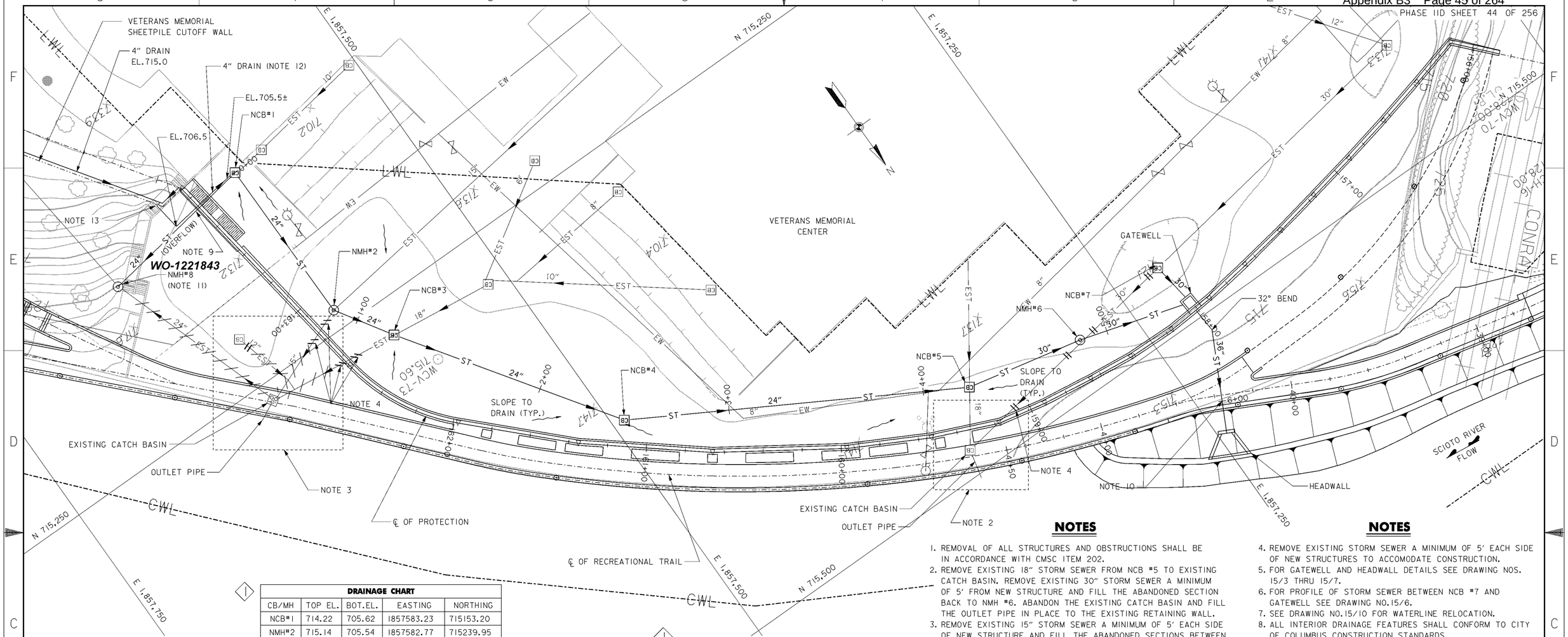
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RICH STREET PARK LANDSCAPE PLAN

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 12/11
FILENAME: 00lspa08.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

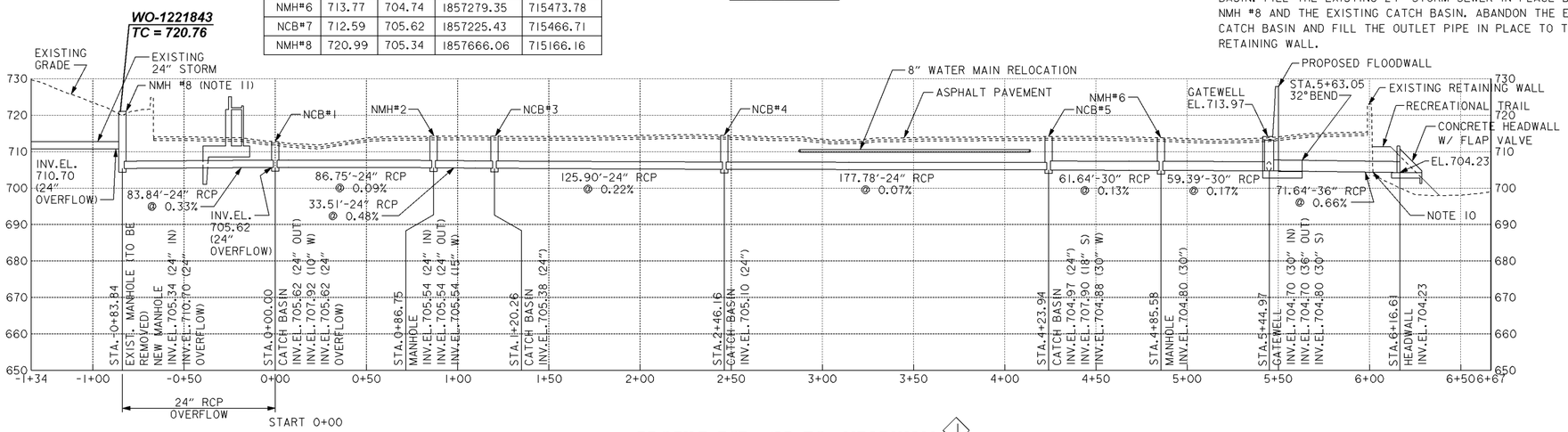
PHASE IID SHEET 44 OF 256



DRAINAGE CHART				
CB/MH	TOP EL.	BOT.EL.	EASTING	NORTHING
NCB#1	714.22	705.62	1857583.23	715153.20
NMH#2	715.14	705.54	1857582.77	715239.95
NCB#3	715.47	705.38	1857564.81	715268.24
NCB#4	715.07	705.09	1857493.74	715372.17
NCB#5	714.10	704.88	1857339.60	715460.74
NMH#6	713.77	704.74	1857279.35	715473.78
NCB#7	712.59	705.62	1857225.43	715466.71
NMH#8	720.99	705.34	1857666.06	715166.16

PLAN

SCALE: 1" = 20'



PROFILE ECB #15 TO HEADWALL

SCALE IN FEET

NOTES

1. REMOVAL OF ALL STRUCTURES AND OBSTRUCTIONS SHALL BE IN ACCORDANCE WITH CMSC ITEM 202.
2. REMOVE EXISTING 18" STORM SEWER FROM NCB #5 TO EXISTING CATCH BASIN. REMOVE EXISTING 30" STORM SEWER A MINIMUM OF 5' FROM NEW STRUCTURE AND FILL THE ABANDONED SECTION BACK TO NMH #6. ABANDON THE EXISTING CATCH BASIN AND FILL THE OUTLET PIPE IN PLACE TO THE EXISTING RETAINING WALL.
3. REMOVE EXISTING 15" STORM SEWER A MINIMUM OF 5' EACH SIDE OF NEW STRUCTURE AND FILL THE ABANDONED SECTIONS BETWEEN NMH #2 AND EXISTING CATCH BASIN. REMOVE EXISTING 18" STORM SEWER A MINIMUM OF 5' EACH SIDE OF NEW STRUCTURE AND FILL THE ABANDONED SECTIONS BETWEEN NCB #3 AND EXISTING CATCH BASIN. FILL THE EXISTING 24" STORM SEWER IN PLACE BETWEEN NMH #8 AND THE EXISTING CATCH BASIN. ABANDON THE EXISTING CATCH BASIN AND FILL THE OUTLET PIPE IN PLACE TO THE EXISTING RETAINING WALL.

NOTES

4. REMOVE EXISTING STORM SEWER A MINIMUM OF 5' EACH SIDE OF NEW STRUCTURES TO ACCOMODATE CONSTRUCTION.
5. FOR GATEWELL AND HEADWALL DETAILS SEE DRAWING NOS. 15/3 THRU 15/7.
6. FOR PROFILE OF STORM SEWER BETWEEN NCB #7 AND GATEWELL SEE DRAWING NO.15/6.
7. SEE DRAWING NO.15/10 FOR WATERLINE RELOCATION.
8. ALL INTERIOR DRAINAGE FEATURES SHALL CONFORM TO CITY OF COLUMBUS CONSTRUCTION STANDARDS.
9. FOR DETAIL OF 24" STORM SEWER FROM NCB#1 TO NMH#8 PASSING THROUGH FLOODWALL SEE DETAIL ON DRAWING NO. 20.1/14.
10. FOR DETAIL OF 36" STORM SEWER PASSING THROUGH EXISTING RETAINING WALL. SEE DETAIL ON DWG. NO. 15/7.
11. TOP OF CASTING SHOULD BE SET ONE FOOT BELOW FINISH GRADE. PROVIDE BOLT DOWN SEWER COVER.
12. RUN 4-INCH VETERANS MEMORIAL SEEPAGE CUTOFF WALL DRAIN LINE IN SAME TRENCH AS 24-INCH STORM LINE.
13. BURN HOLE IN SHEET PILE TO PASS 4-INCH DRAIN LINE AND CHANGE FROM PERFORATED PIPE TO NON-PERFORATED PIPE AT THIS LOCATION.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.ROMAN
Drawn by: T. MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

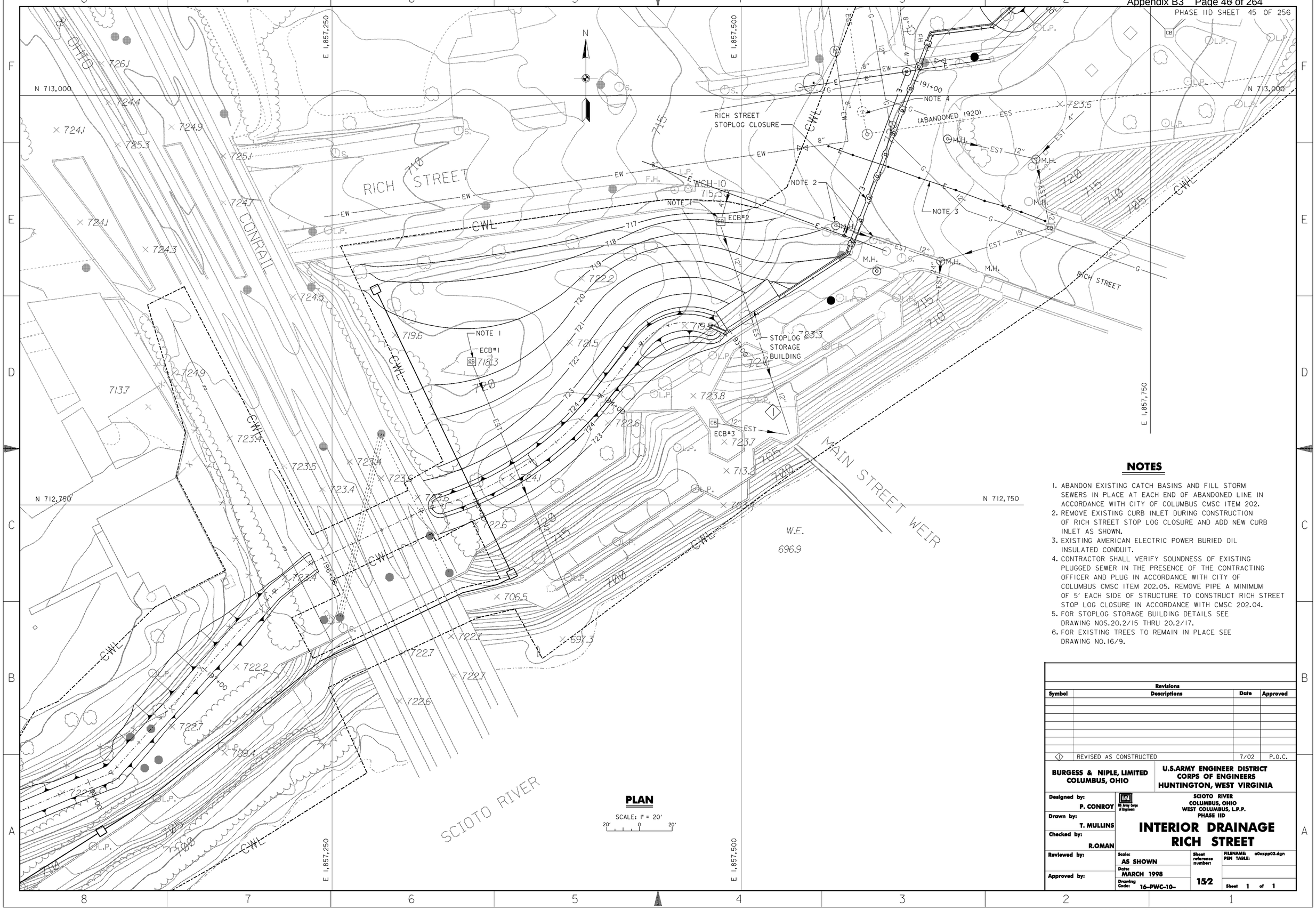
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

INTERIOR DRAINAGE VETERANS MEMORIAL

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 151
FILENAME: a0axpp01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'

20' 0 20'

NOTES

1. ABANDON EXISTING CATCH BASINS AND FILL STORM SEWERS IN PLACE AT EACH END OF ABANDONED LINE IN ACCORDANCE WITH CITY OF COLUMBUS CMSC ITEM 202.
2. REMOVE EXISTING CURB INLET DURING CONSTRUCTION OF RICH STREET STOP LOG CLOSURE AND ADD NEW CURB INLET AS SHOWN.
3. EXISTING AMERICAN ELECTRIC POWER BURIED OIL INSULATED CONDUIT.
4. CONTRACTOR SHALL VERIFY SOUNDNESS OF EXISTING PLUGGED SEWER IN THE PRESENCE OF THE CONTRACTING OFFICER AND PLUG IN ACCORDANCE WITH CITY OF COLUMBUS CMSC ITEM 202.05. REMOVE PIPE A MINIMUM OF 5' EACH SIDE OF STRUCTURE TO CONSTRUCT RICH STREET STOP LOG CLOSURE IN ACCORDANCE WITH CMSC 202.04.
5. FOR STOPLOG STORAGE BUILDING DETAILS SEE DRAWING NOS.20.2/15 THRU 20.2/17.
6. FOR EXISTING TREES TO REMAIN IN PLACE SEE DRAWING NO.16/9.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

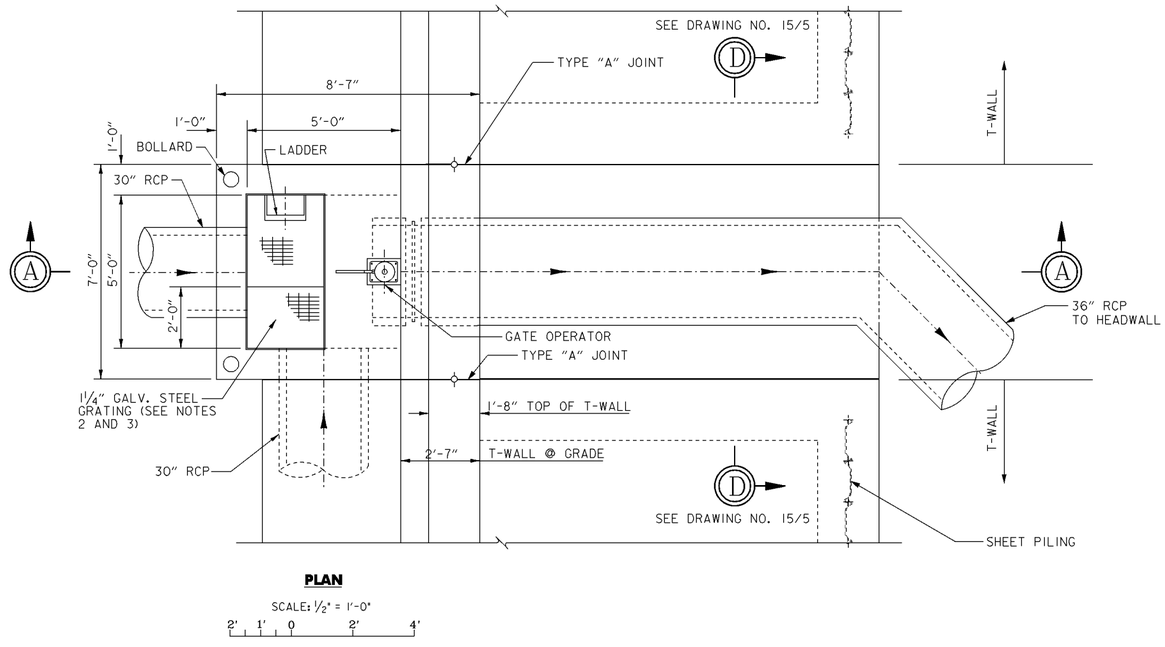
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

INTERIOR DRAINAGE RICH STREET

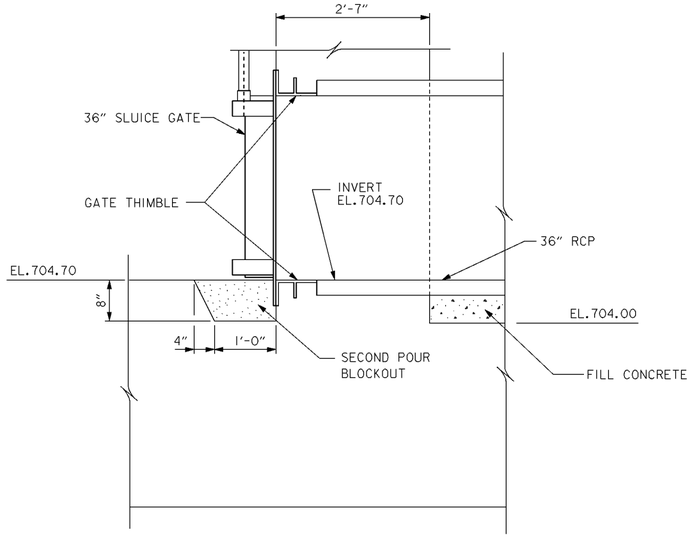
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 15/2
FILENAME: PEN TABLE: a0axpp03.dgn
Sheet 1 of 1

WORK AS CONSTRUCTED



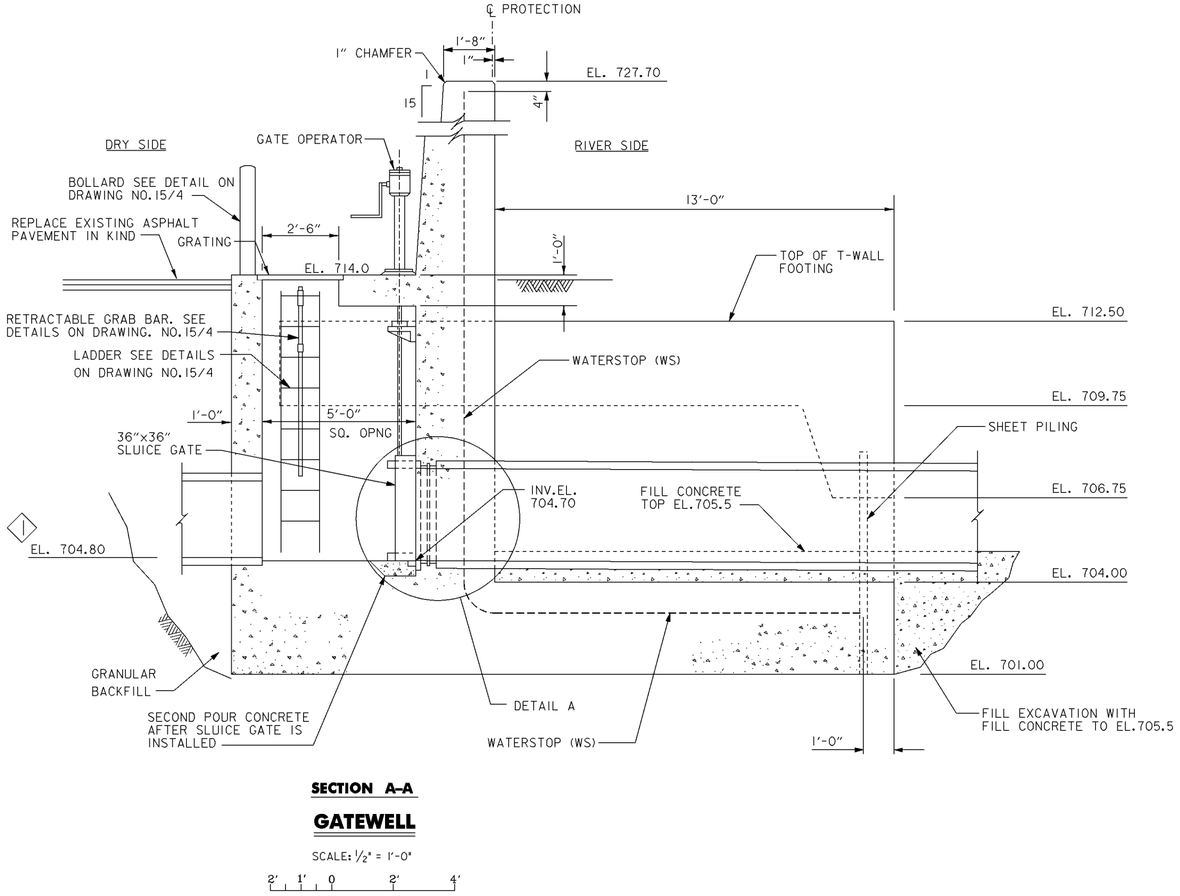
PLAN

SCALE: ½" = 1'-0"



DETAIL A

SCALE: 1" = 1'-0"



SECTION A-A

GATEWELL

SCALE: ½" = 1'-0"

NOTES

1. FOR VETERANS MEMORIAL INTERIOR DRAINAGE PLAN SEE DRAWING NO. 15/1.
2. GRATING SHALL HAVE 1 ¼" × 3/16" BEARING BARS @ 1 3/16" OC W/ CROSS BARS @ 4" OC.
3. GRATING IN TWO SECTIONS WITH 3'-0" WIDE SECTION ADJACENT TO LADDER.
4. SECTION D-D SHOWN ON DRAWING NO. 15/5.
5. FOR TYPE "A" JOINT DETAIL SEE DRAWING NO. 20.1/1.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.OMAN
Drawn by: A.PUMMELL
Checked by: P.CONROY
Reviewed by:
Approved by:

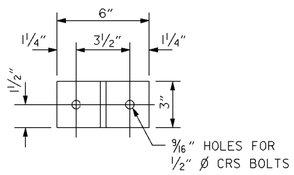
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GATEWELL PLAN AND SECTIONS

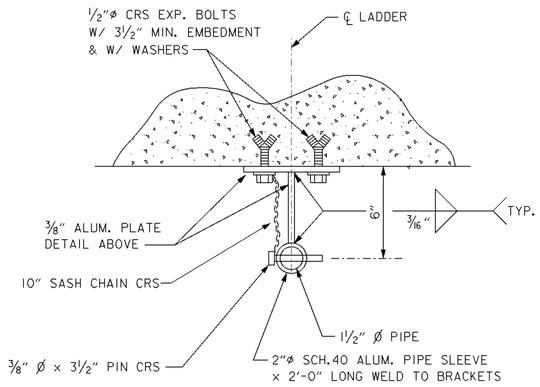
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 15/3
FILENAME: a06dd101.dgn
PEN TABLE:
Sheet 1 of 3

WORK AS CONSTRUCTED



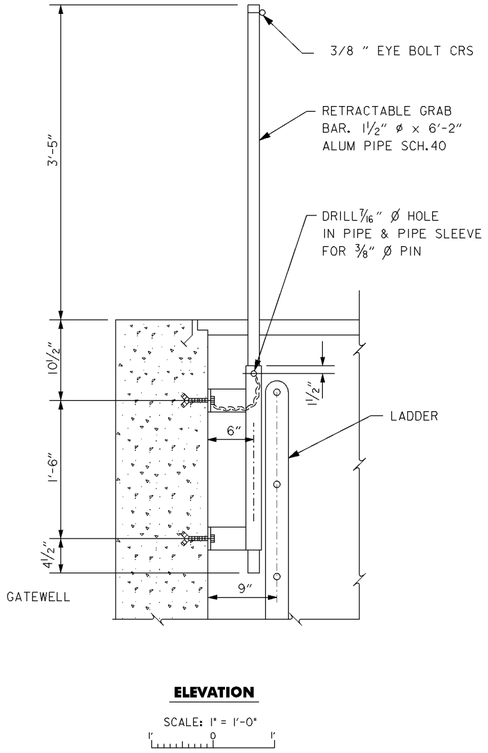
DETAIL
(TYP. OF 2)

SCALE: 3" = 1'-0"



PLAN

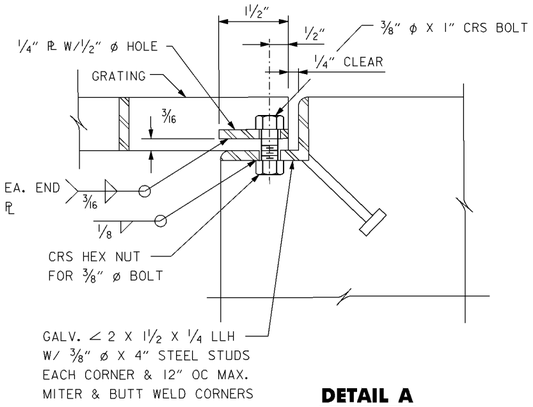
SCALE: 3" = 1'-0"



ELEVATION

SCALE: 1" = 1'-0"

NOTE:
ALL MATERIAL TO BE ALUMINUM
ALLOY 6061-T6 UNLESS NOTED.



DETAIL A

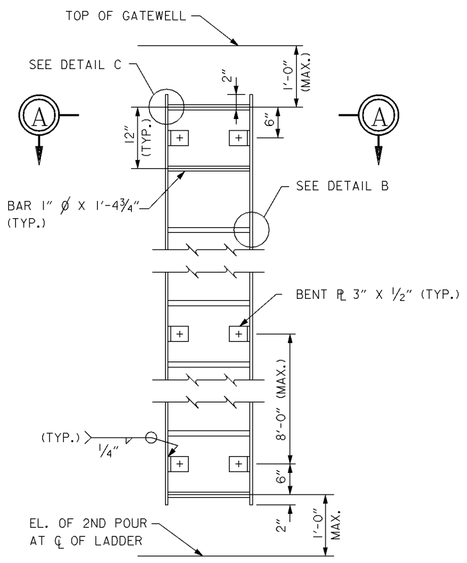
NO SCALE

FOR LOCATION SEE
DRAWING NO.15/5

DETAIL A NOTES

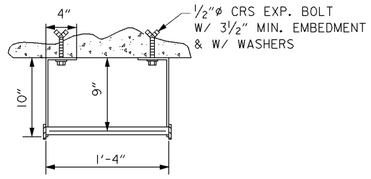
1. GALVANIZE AFTER FABRICATION.
2. PL'S AND BOLTS ARE TO ATTACH GRATING IN PLACE. PROVIDE ONE SET EACH CORNER EACH SECTION OF GRATING (TOTAL 8 REQUIRED)
3. HAVE ⅜"ø BOLT GREASED AND FULLY THREADED INTO NUT UNTIL CONCRETE HAS HARDENED.
4. STEEL STUDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1. 1 SECTION 7.
5. CHAIN SHALL BE TYPE 304L STAINLESS STEEL SASH CHAIN TRADE SIZE 35x10" LONG McMASTERS.-CARR NO. 3610T32 OR EQUAL. WELD TO STAINLESS STEEL WASHER UNDER EXPANSION BOLT.
6. PIN SHALL BE RING-GRIP QUICK RELEASE SELFLOCKING PIN. TYPE 303 STAINLESS STEEL ⅜"øX2.5" GRIP McMASTER-CARR No. 98404A385 OR EQUAL.
7. GRATING SHALL BE TYPE WB GALVANIZED STEEL W/ BEARING BARS 1¼"×3/16" @ 1 3/16" O.C. AND W/ WELDED CROSS BARS @ 4" O.C. . PROVIDE 1"×3/16" BAND WELD TO ENDS OF BEARING BARS. PROVIDE GRATING IN TWO SECTIONS. SEE PLAN ON DRAWING NO.15/3.

RETRACTABLE GRAB BAR



ELEVATION

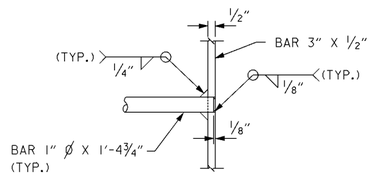
SCALE: 1" = 1'



SECTION A-A

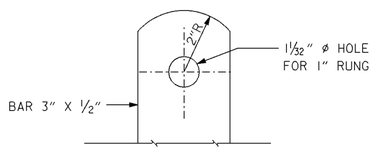
SCALE: 1½" = 1'-0"

NOTE:
ALL MATERIAL TO BE ALUMINUM
ALLOY 6061-T6 UNLESS NOTED.



DETAIL B

SCALE: 3" = 1'-0"

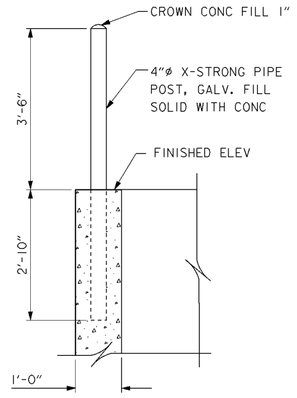


DETAIL C

SCALE: 3" = 1'-0"

NOTES

1. FOR VETERANS MEMORIAL INTERIOR DRAINAGE PLAN SEE DRAWING NO. 15/1.
2. GALVANIZED GRATING SHALL HAVE 1 ¼" x 3/16" BEARING BARS @ 1 3/16" OC W/ CROSS BARS @ 4" OC.
3. EXPANSION BOLTS SHALL BE ½"ø TYPE 316 STAINLESS STEEL WITH 6" MIN. EMBEDMENT "KWICK BOLT II" BY HILTI OR EQUAL.
4. EYE BOLTS SHALL BE ⅜" SHANK DIA. SHOULDER EYE BOLT TYPE 316 STAINLESS STEEL.
5. GRATING SHALL BE TYPE WB GALVANIZED STEEL WITH 1 ¼"x 3/16" BEARING BARS @ 1 3/16" O.C. AND CROSS BARS @ 4" O.C.
6. ALL ALUMINUM SURFACES WHICH COME IN CONTACT WITH CONCRETE AND/OR STEEL SHALL BE PAINTED WITH A HEAVY COAT OF BITUMINOUS PAINT.
7. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO.20.2/9.



BOLLARD DETAIL

SCALE: 3/4" = 1'-0"

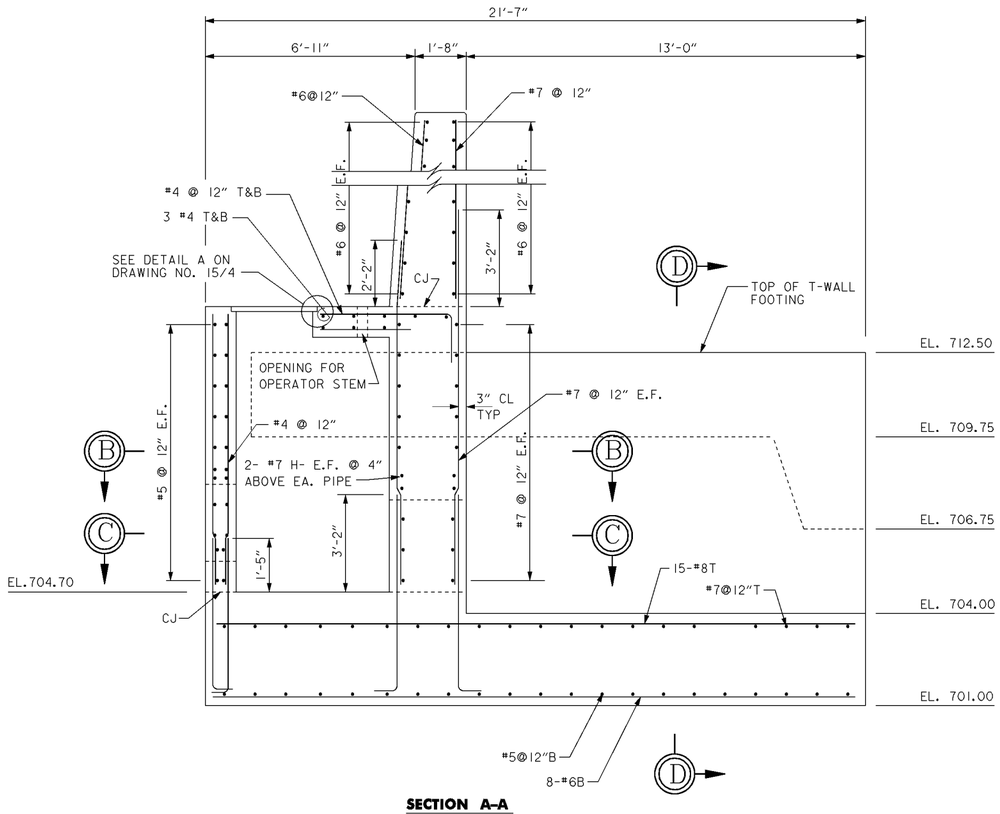
2 REQUIRED

LADDER DETAILS

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: R.ROMAN Drawn by: D.BECKNER Checked by: P.CONROY Reviewed by: Approved by:	US Army Corps of Engineers SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID **GATEWELL DETAILS** Scale: AS SHOWN Date: MARCH 1998 Drawing Code: 16-PWC-10- Sheet reference number: 15/4 FILENAME: 00d6d102.dgn PEN TABLE: Sheet 2 of 3

WORK AS CONSTRUCTED

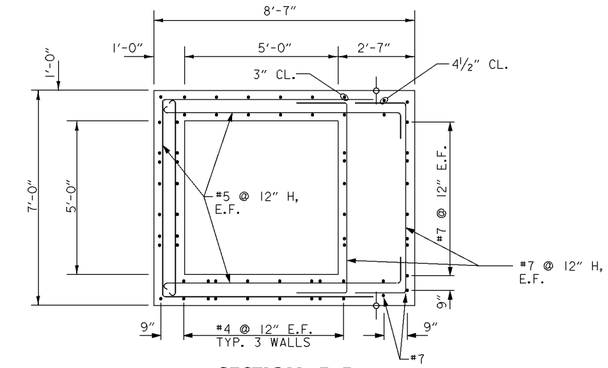


SECTION A–A

GATEWELL RESTEEL

SCALE: ½" = 1'-0"

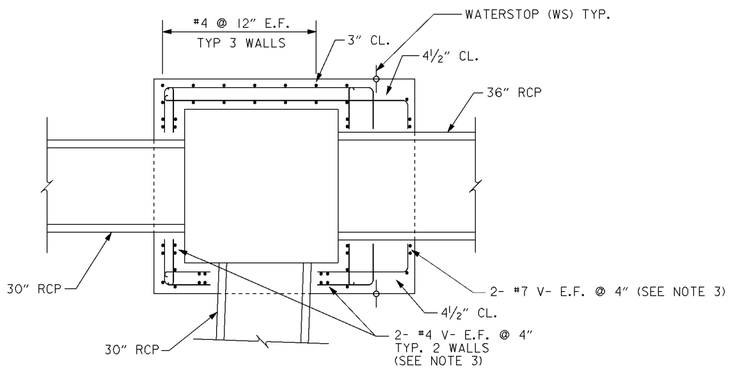
2' 1' 0 2' 4'



SECTION B–B

SCALE: ½" = 1'-0"

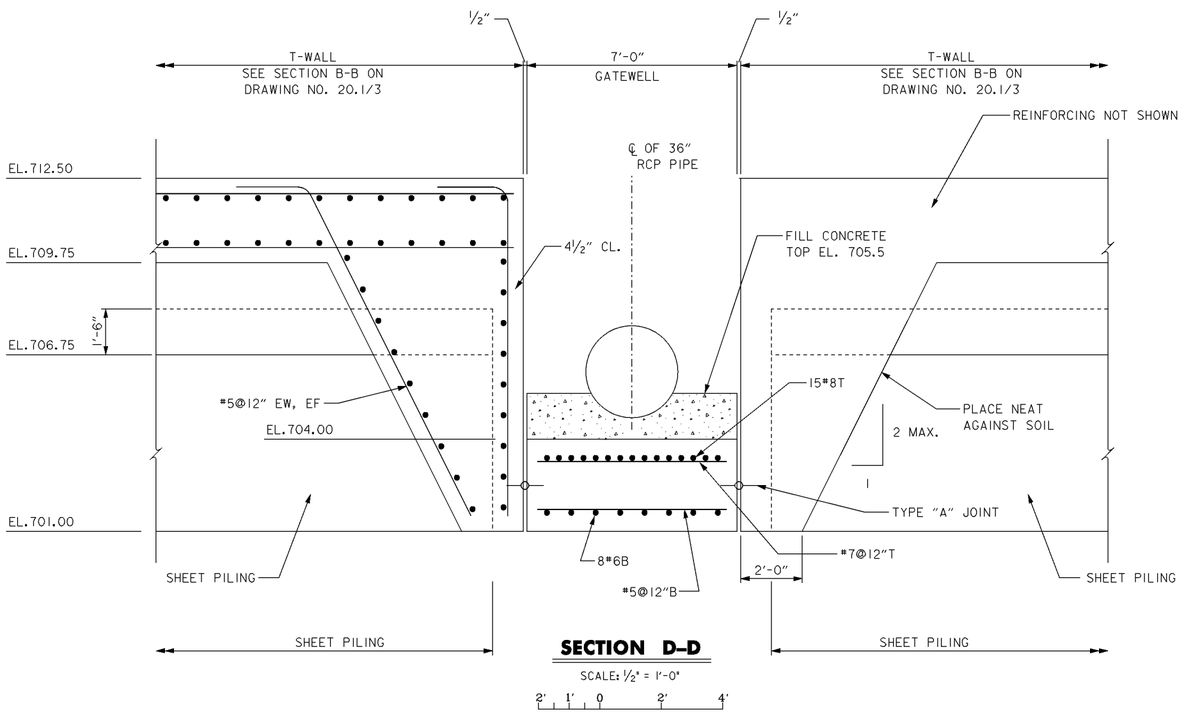
2' 1' 0 2' 4'



SECTION C–C

SCALE: ½" = 1'-0"

2' 1' 0 2' 4'



SECTION D–D

SCALE: ½" = 1'-0"

2' 1' 0 2' 4'

NOTES

1. FOR VETERANS MEMORIAL INTERIOR DRAINAGE PLAN SEE DRAWING NO.15/1.
2. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.
3. PROVIDE REINFORCING AT EACH SIDE EACH PIPE FULL HEIGHT. PROVIDE MATCHING DOWELS IN BASE SLAB.
4. FOR TYPE "A" JOINT DETAIL SEE DRAWING NO. 20.1/1.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.OMAN
Drawn by: D.BECKNER
Checked by: P.CONROY
Reviewed by:
Approved by:

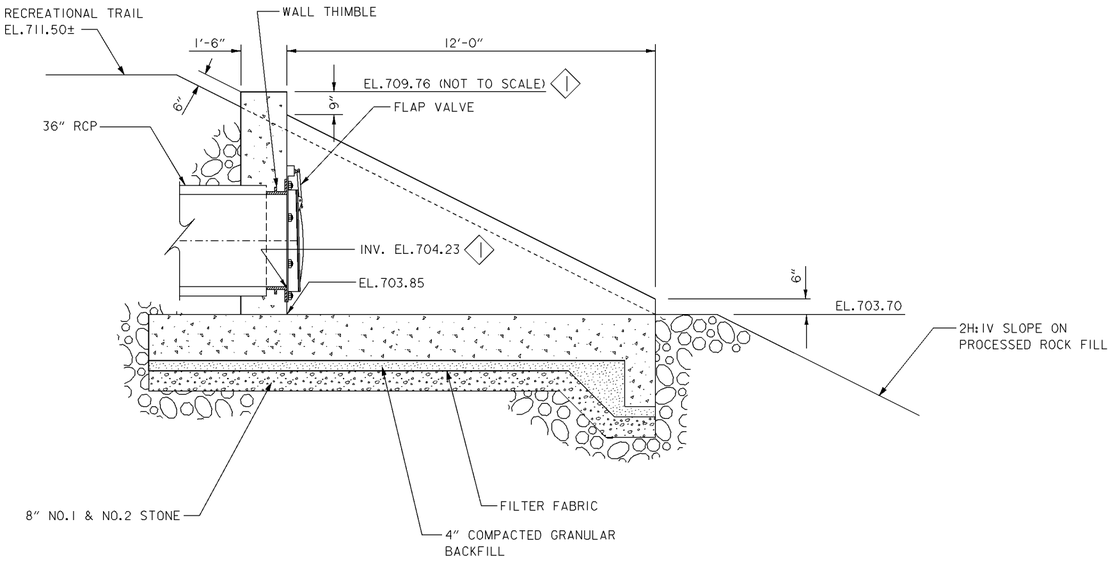
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

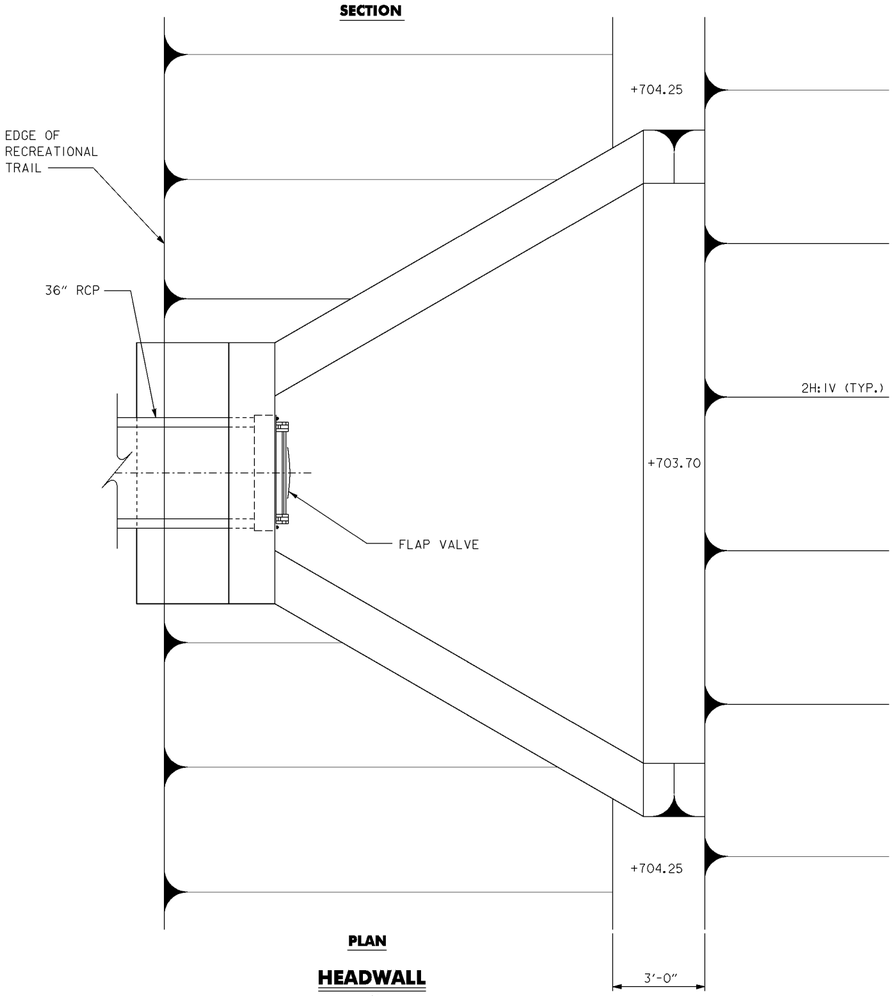
GATEWELL REINFORCING STEEL

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 15/5
FILENAME: 00d6d103.dgn
PEN TABLE:
Sheet 3 of 3

WORK AS CONSTRUCTED



SECTION



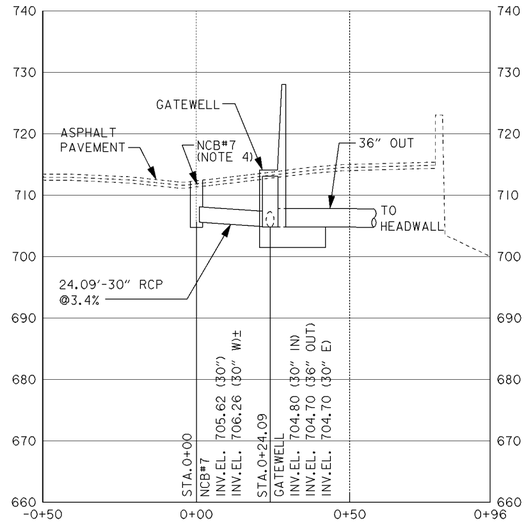
PLAN

HEADWALL

SCALE: 1/2" = 1'-0"

12" 0 1' 2' 3' 4'

SCALE IN FEET



PROFILE NCB #7 TO GATEWELL 1

SCALE IN FEET

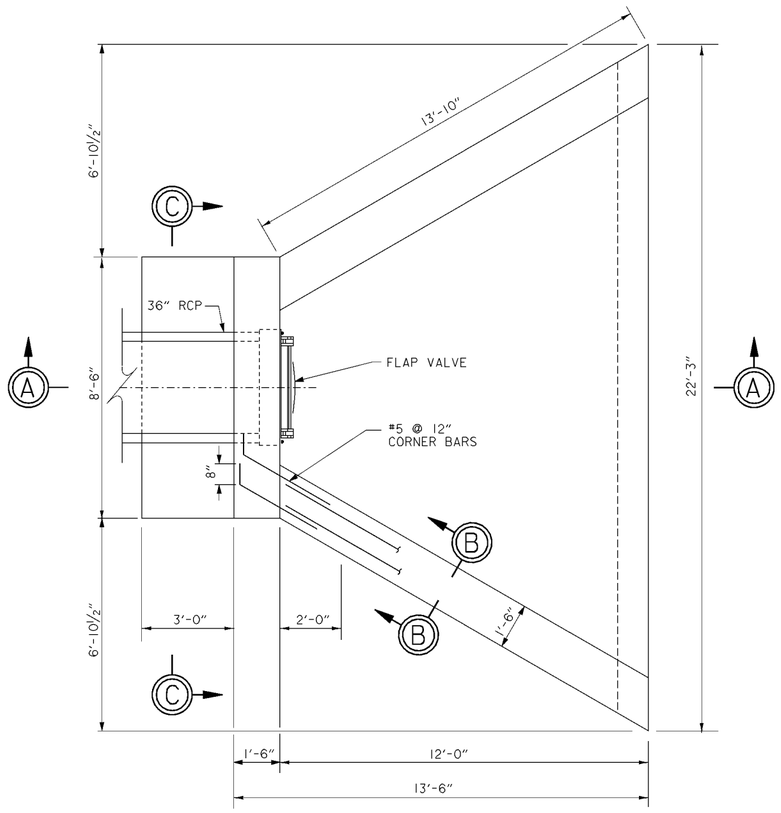
NOTES

1. FOR INTERIOR DRAINAGE SEE DRAWING NO.15/1.
2. FOR HEADWALL REINFORCING STEEL SEE DRAWING NO.15/7.
3. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.
4. REMOVE AND REPLACE EXISTING CATCH BASIN WITH NEW CATCH BASIN (NCB#7).

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

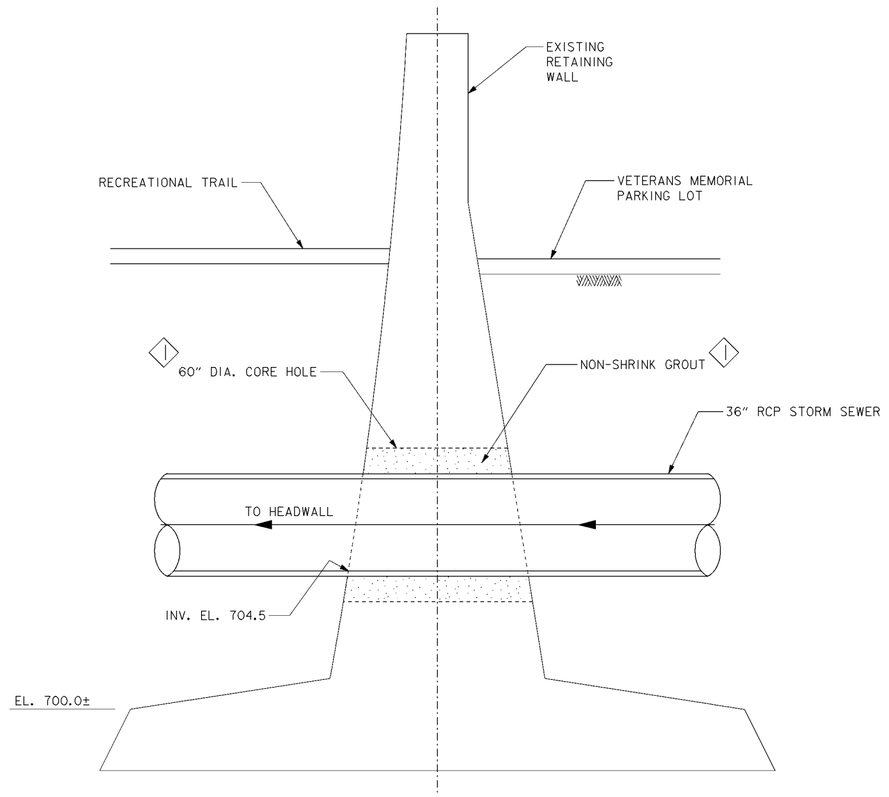
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: R.OMAN Drawn by: T.MULLINS Checked by: P.CONROY Reviewed by: Approved by:	US Army Corps of Engineers SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID **HEADWALL DETAILS**
Scale: AS SHOWN Date: MARCH 1998 Drawing Code: 16-PWC-10-	Sheet reference number: 15/6 FILENAME: a0d4d101.dgn PEN TABLE: Sheet 1 of 2

WORK AS CONSTRUCTED

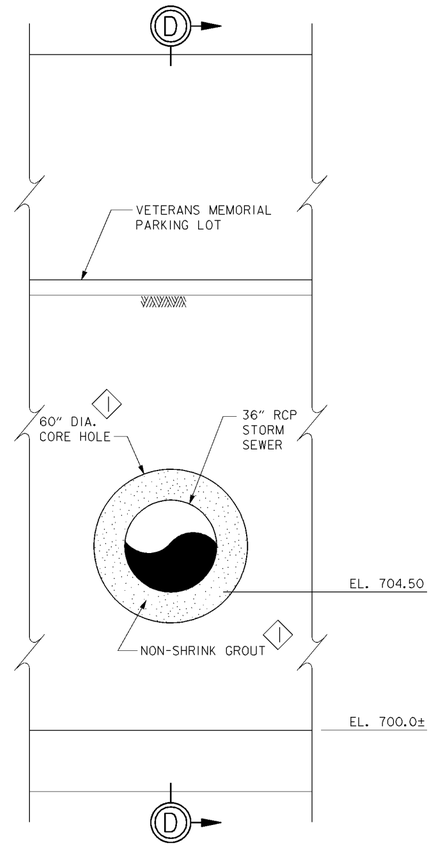


HEADWALL PLAN

SCALE: ½" = 1'-0"



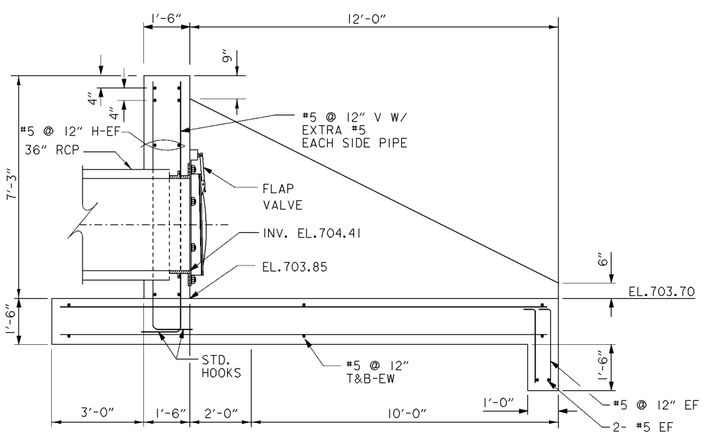
SECTION D–D



ELEVATION

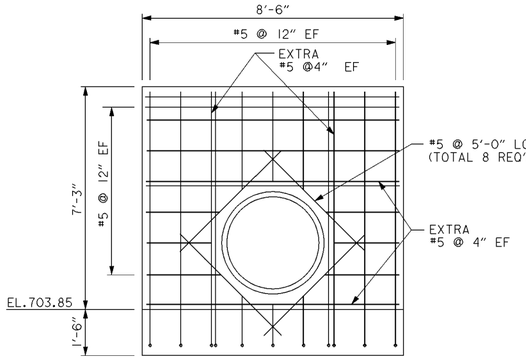
36" STORM SEWER THROUGH EXISTING RETAINING WALL

SCALE: ½" = 1'-0"



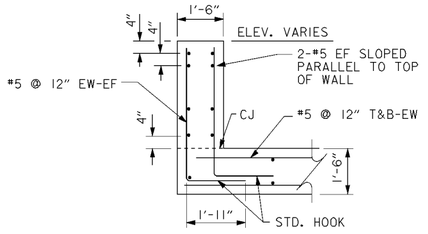
SECTION A–A

SCALE: ½" = 1'-0"



SECTION C–C

SCALE: ½" = 1'-0"



SECTION B–B

SCALE: ½" = 1'-0"

NOTES

1. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.
2. FOR INTERIOR DRAINAGE PLAN SEE DRAWING NO. 15/1.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.ROMAN
Drawn by: D.BECKNER
Checked by: P.CONROY
Reviewed by:
Approved by:

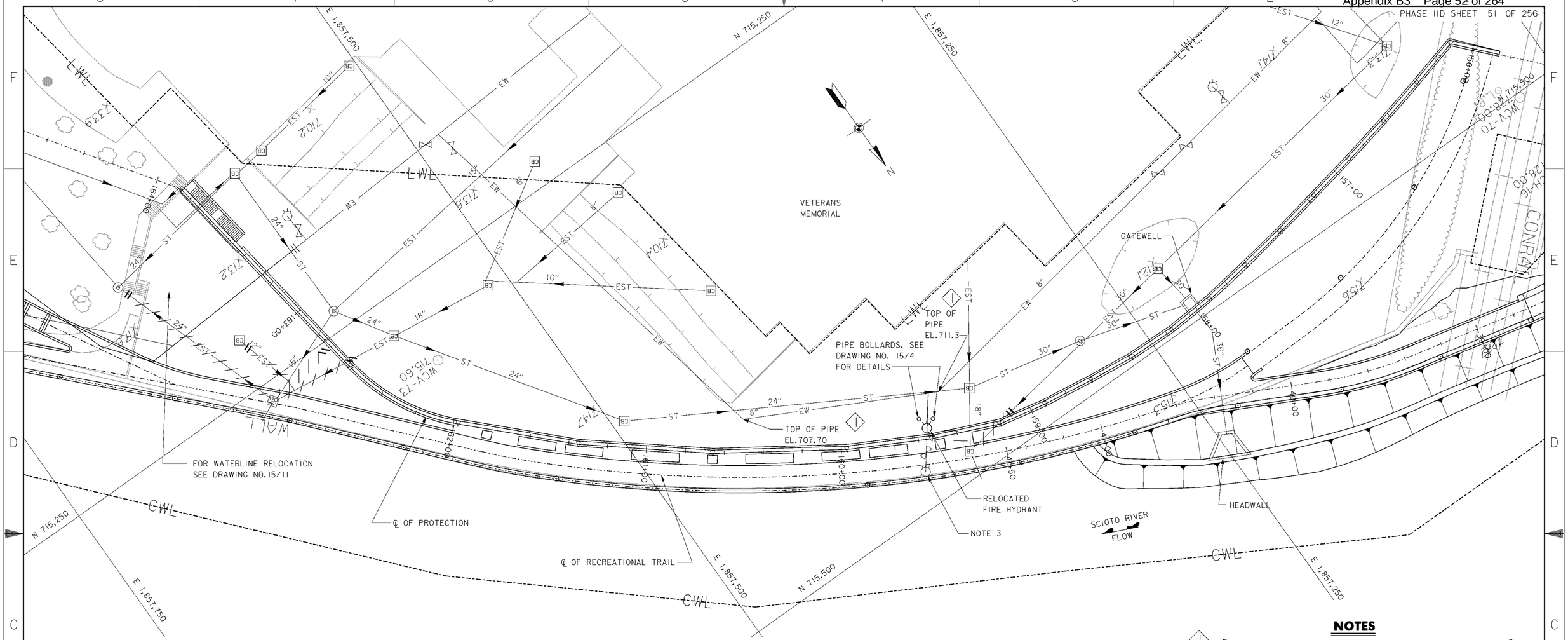
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HEADWALL REINFORCING STEEL

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 15/7
FILENAME: a0d4d102.dgn
PEN TABLE:
Sheet 2 of 2

WORK AS CONSTRUCTED



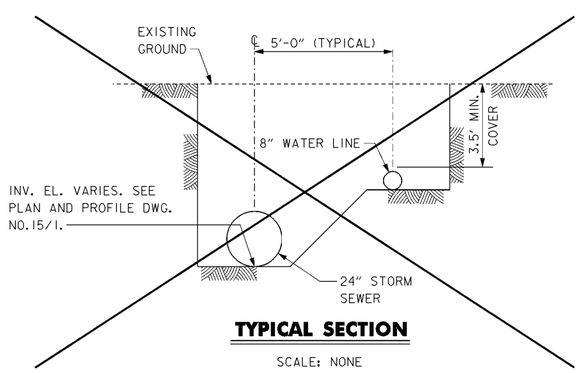
PLAN

SCALE: 1" = 20'

20' 0 20'

NOTES

1. RELOCATION CONNECTION TO BE MADE AT NEAREST JOINT BACK FROM EXISTING 45° ELBOW. PROVIDE CONCRETE THRUST BLOCKS AS PER CITY OF COLUMBUS STANDARDS.
2. PLACE RELOCATED WATER LINE IN THE SAME TRENCH AS PROPOSED STORM SEWER. SEE DRAWING NO.15/1 FOR INTERIOR DRAINAGE PLAN.
3. FIRE HYDRANT TO BE RELOCATED AT LOCATION SHOWN IN ACCORDANCE WITH THE CITY OF COLUMBUS CMSC ITEM 809.06.
4. EXISTING 8" WATER LINE SHALL BE REMOVED IN ACCORDANCE WITH CMSC ITEM 202.04.
5. FOR INTERIOR DRAINAGE SEE DRAWING NO.15/1.



TYPICAL SECTION

SCALE: NONE

NOTE:
WATERLINE WAS NOT RELOCATED BASED UPON ACTUAL FIELD LOCATION.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: W.HORNING
Drawn by: T. MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

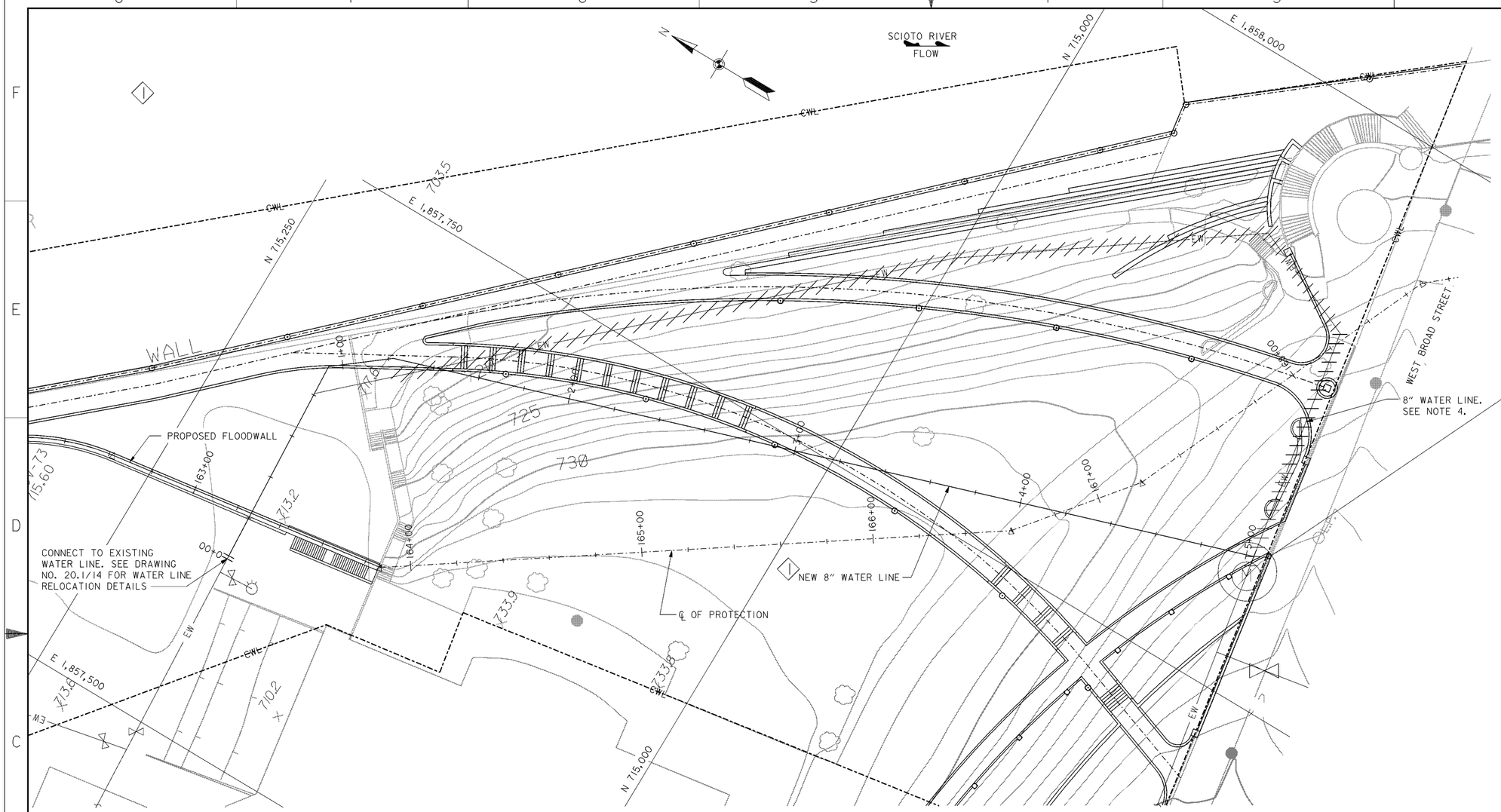
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

WATER LINE RELOCATION (1 OF 3)

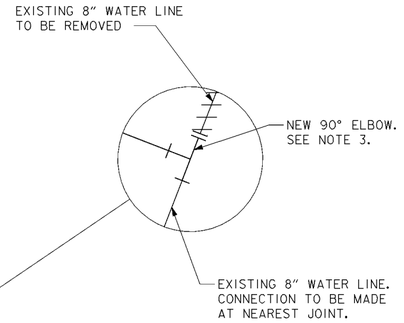
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 15/10
FILENAME: a0u2pp01.dgn
PIN TABLE:
Sheet 1 of 3

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



PARTIAL PLAN

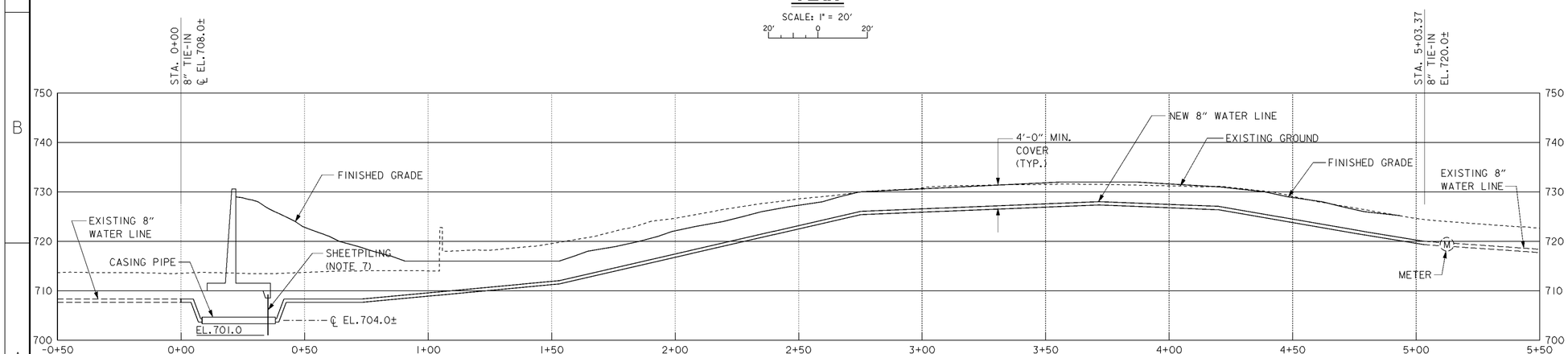
SCALE: NONE

LEGEND

PHASE I WATER LINE TO BE REMOVED

NOTES

1. FOR CWL AND R/W SEE DRAWING NOS. 6/1 THRU 6/10.
2. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/10.
3. RELOCATION CONNECTION TO BE MADE AT NEAREST JOINT WITHIN CWL. PROVIDE CONCRETE THRUST BLOCKS AS PER CITY OF COLUMBUS STANDARDS.
4. THE EXISTING 8" WATER LINE SHALL BE RELOCATED TO ALLOW FOR CONSTRUCTION OF THE RETAINING WALLS AND FLOODWALL. THE CONTRACTOR MAY CONSTRUCT THE WATER LINE IN PHASES AS SHOWN ON THE DRAWINGS DEPENDING ON THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION. REGARDLESS OF THE CONSTRUCTION SEQUENCE, THE CONTRACTOR SHALL COORDINATE WATER LINE SHUTDOWNS WITH THE CONTRACTING OFFICER AND VETERANS MEMORIAL REPRESENTATIVES.
5. ELEVATION OF TIE-IN LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
6. FINISHED GRADING NOT SHOWN IN PLAN VIEW FOR CLARITY. SEE DRAWING NO. 20.2/34.
7. FOR THE TYPICAL PIPE THROUGH SHEET PILING DETAIL SEE DRAWING NO. 20.1/14.



PROFILE

SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

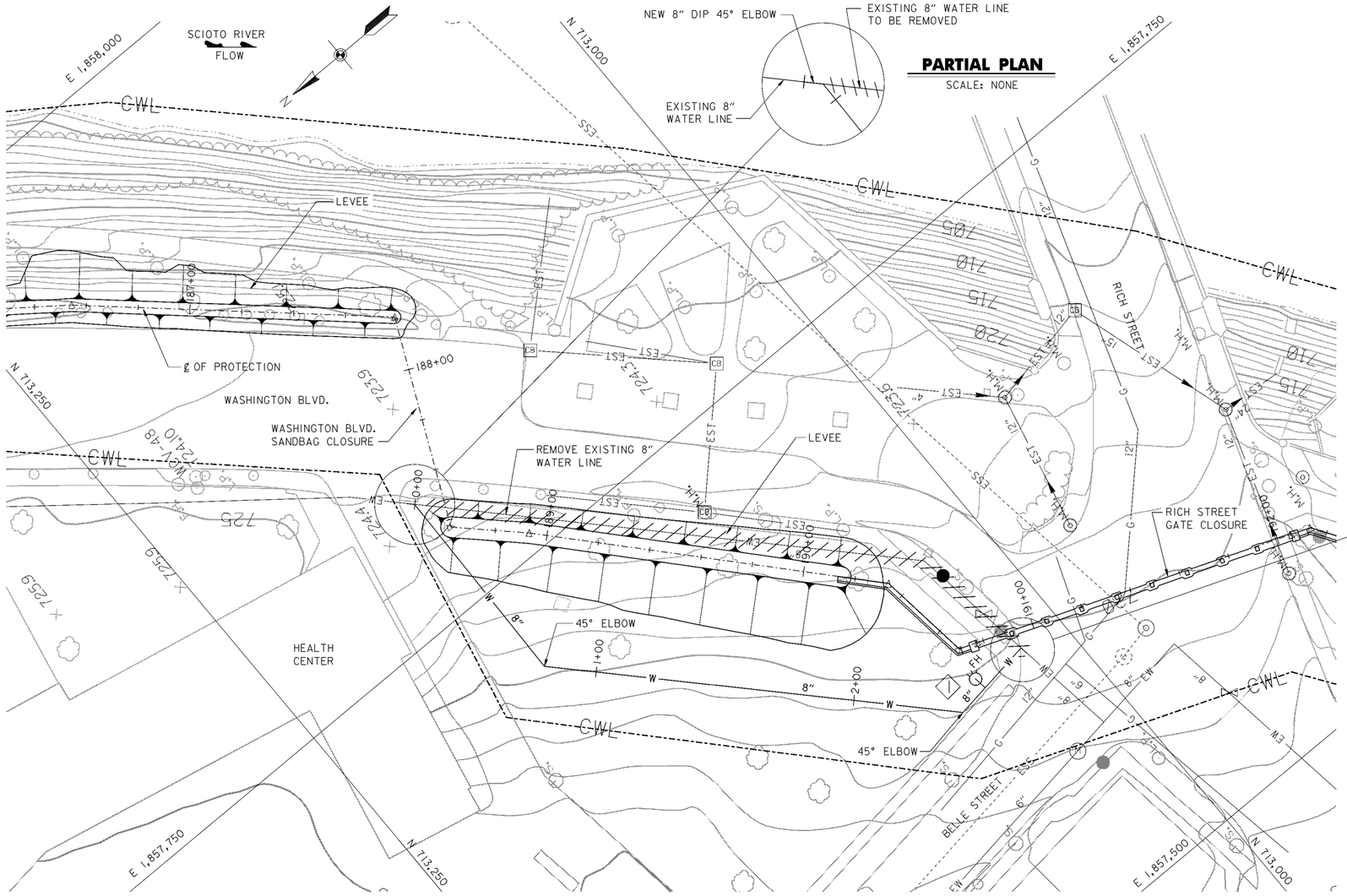
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

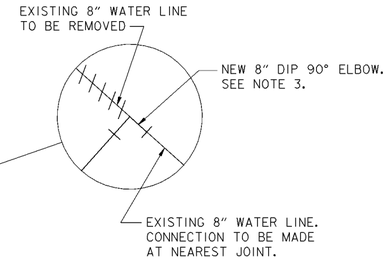
WATER LINE RELOCATION (2 OF 3)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 15/11
FILENAME: PEN TABLE: 00u2pp02.dgn
Sheet 2 of 3

WORK AS CONSTRUCTED



PARTIAL PLAN
SCALE: NONE



PARTIAL PLAN
SCALE: NONE

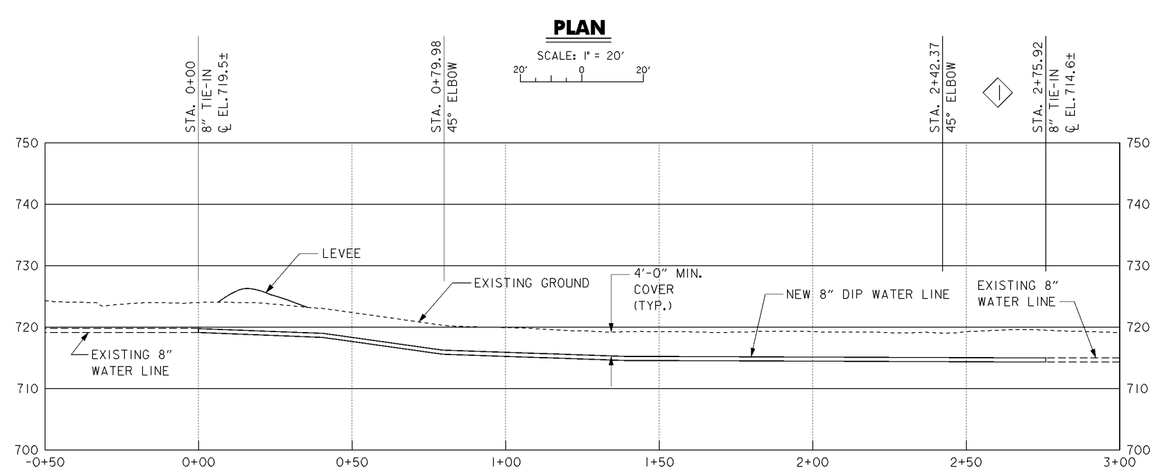
LEGEND

WATER LINE TO BE REMOVED

NOTES

1. FOR CWL SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/10.
3. FOR WASHINGTON BLVD. SANDBAG CLOSURE SEE DRAWING NO. 20.2/6.
4. FOR RICH STREET GATE CLOSURE SEE DRAWING NO. 20.2/7.
5. RELOCATION CONNECTION TO BE MADE AT NEAREST JOINT WITHIN CWL. PROVIDE CONCRETE THRUST BLOCKS AS PER CITY OF COLUMBUS STANDARDS.
6. ELEVATIONS OF TIE-IN LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.

PLAN
SCALE: 1" = 20'



PROFILE
SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

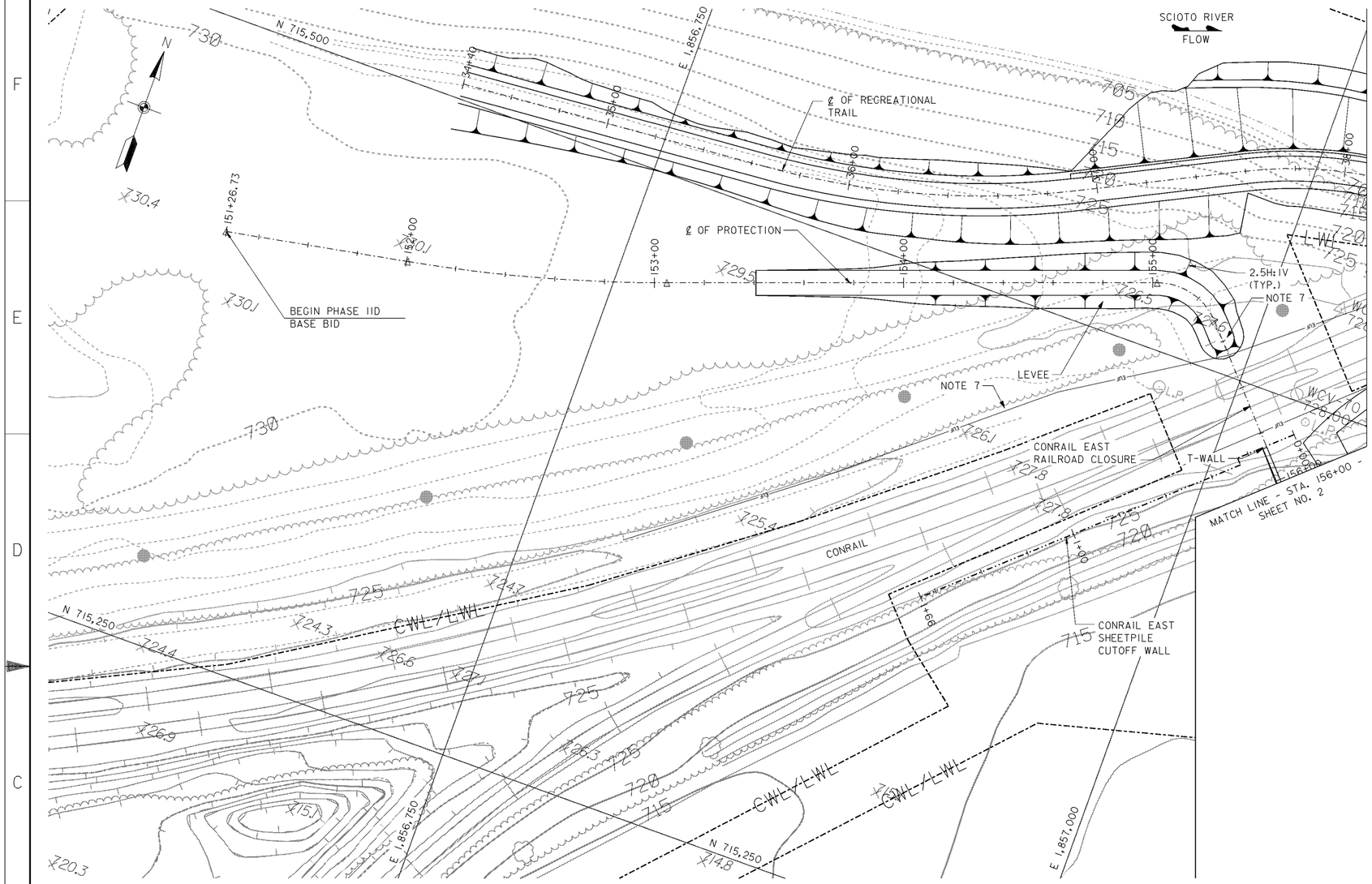
US Army Corps of Engineers

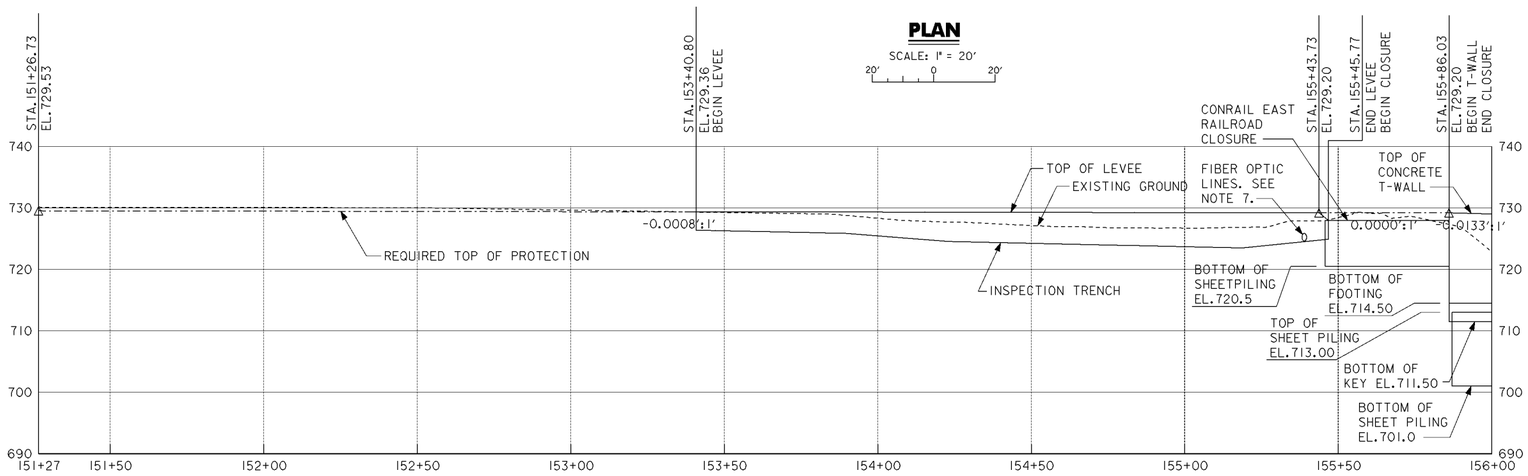
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

WATER LINE RELOCATION (3 OF 3)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 15/12
FILENAME: a0u2pp03.dgn
PIN TABLE:
Sheet 3 of 3

WORK AS CONSTRUCTED





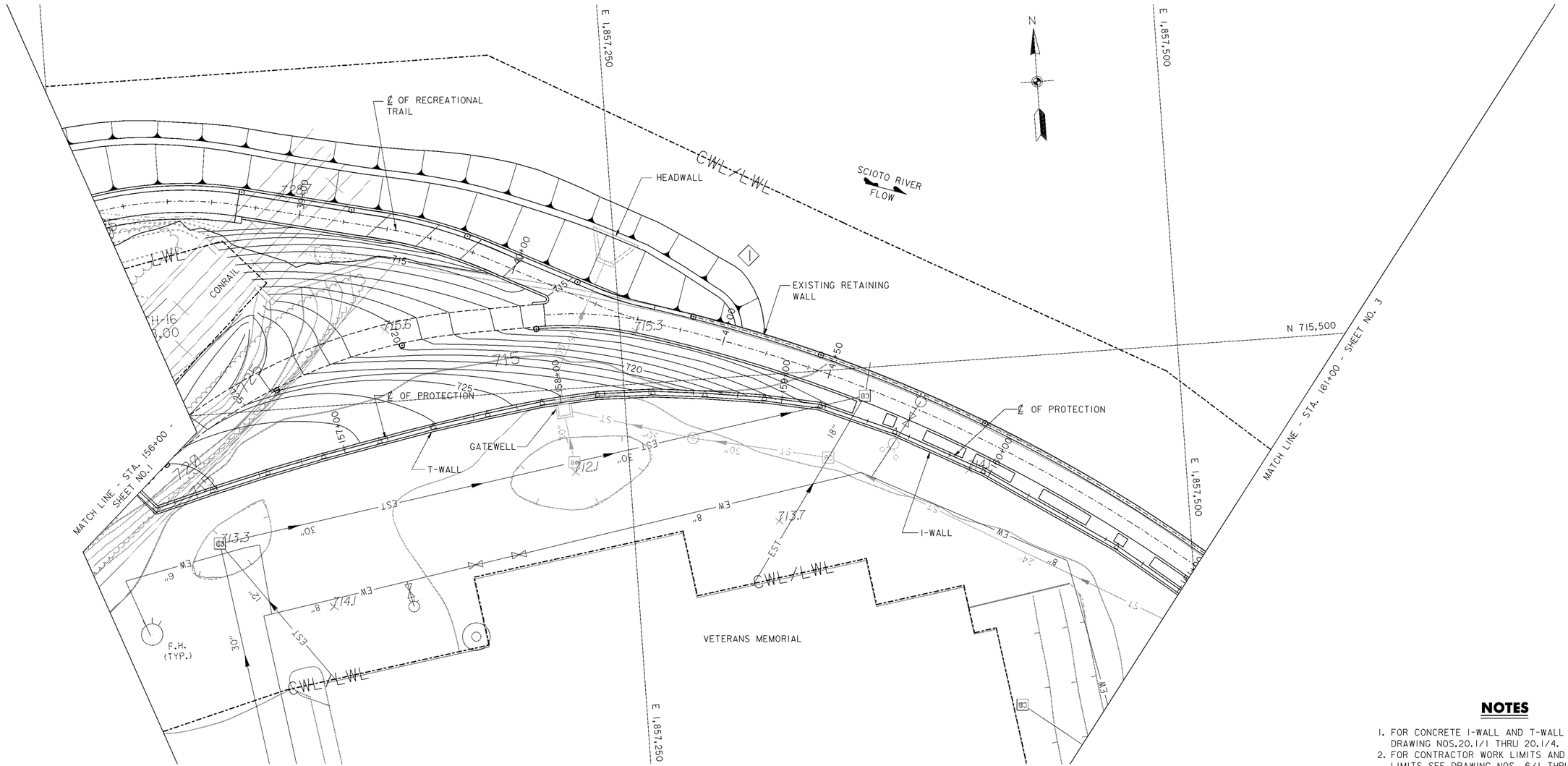
NOTES

1. FOR CONRAIL EAST RAILROAD CLOSURE SEE DRAWING NOS. 20.2/1 THRU 20.2/2.
2. FOR CONRAIL EAST SHEETPILE CUTOFF WALL SEE DRAWING NO. 20.2/3.
3. FOR CONCRETE I-WALL AND T-WALL DETAILS SEE DRAWING NOS. 20.1/1 THRU 20.1/4.
4. FOR CONTRACTOR WORK LIMITS AND LIMITED WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
5. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/1.
6. FOR RECREATIONAL TRAIL SEE DRAWING NOS. 16/50 AND 16/51 AND 20.2/35 THRU 20.2/37.
7. MULTIPLE EXISTING FIBER OPTIC LINES (5-SPRINT, LCI, AT&T, WORLDCOM AND ONE UNKNOWN OWNER) LOCATED IN RAILROAD RIGHT-OF-WAY NORTH OF CONRAIL TRACKS. THE CONTRACTOR SHALL HAVE LINES LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION FOR THE INSPECTION TRENCH AND PLACEMENT OF EMBANKMENT.

Revisions			
Symbol	Descriptions	Date	Approved

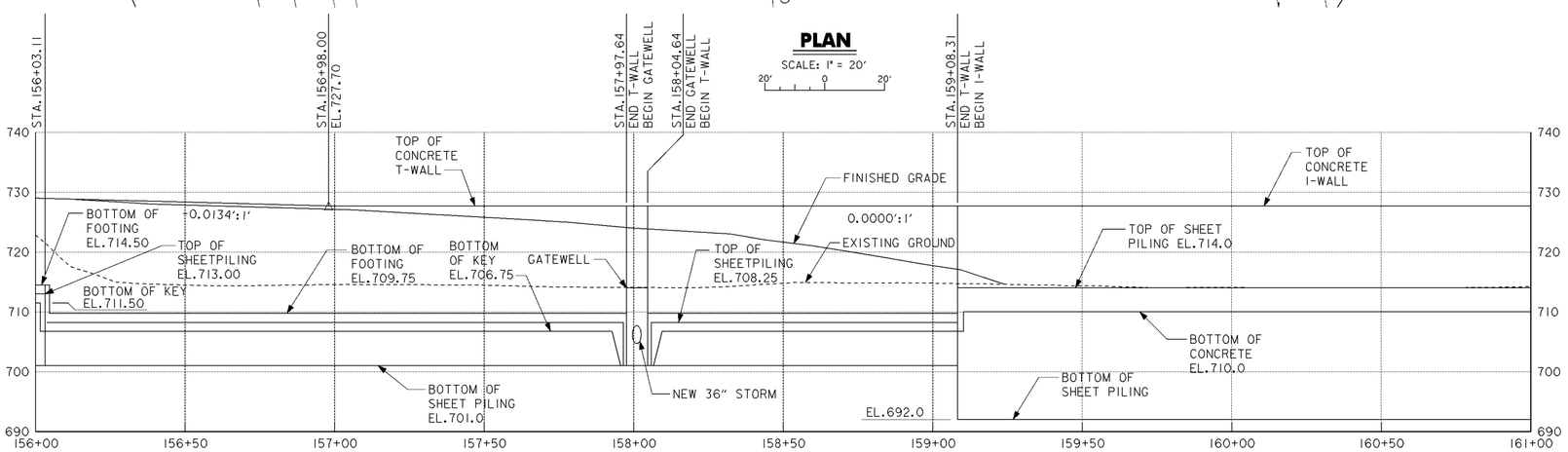
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.HALL	US Army Corps of Engineers
Drawn by: T.MULLINS	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Checked by: P.CONROY	**PLAN AND PROFILE STA151+26.73 TO 156+00**
Reviewed by:	Scale: AS SHOWN
Approved by:	Date: MARCH 1998
	Drawing Code: 16-PWC-10-
	Sheet reference number: 16/1
	FILENAME: PEN TABLE: 00a5pp01.dgn
	Sheet 1 of 13

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET

NOTES

1. FOR CONCRETE I-WALL AND T-WALL DETAILS SEE DRAWING NOS.20.1/1 THRU 20.1/4.
2. FOR CONTRACTOR WORK LIMITS AND LIMITED WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR INTERIOR DRAINAGE SEE DRAWING NO.15/1.
4. FOR WATERLINE RELOCATION SEE DRAWING NO.15/10.
5. FOR RECREATIONAL TRAIL SEE DRAWING NOS.16/50 AND 16/51 AND 20.2/35 THRU 20.2/37.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

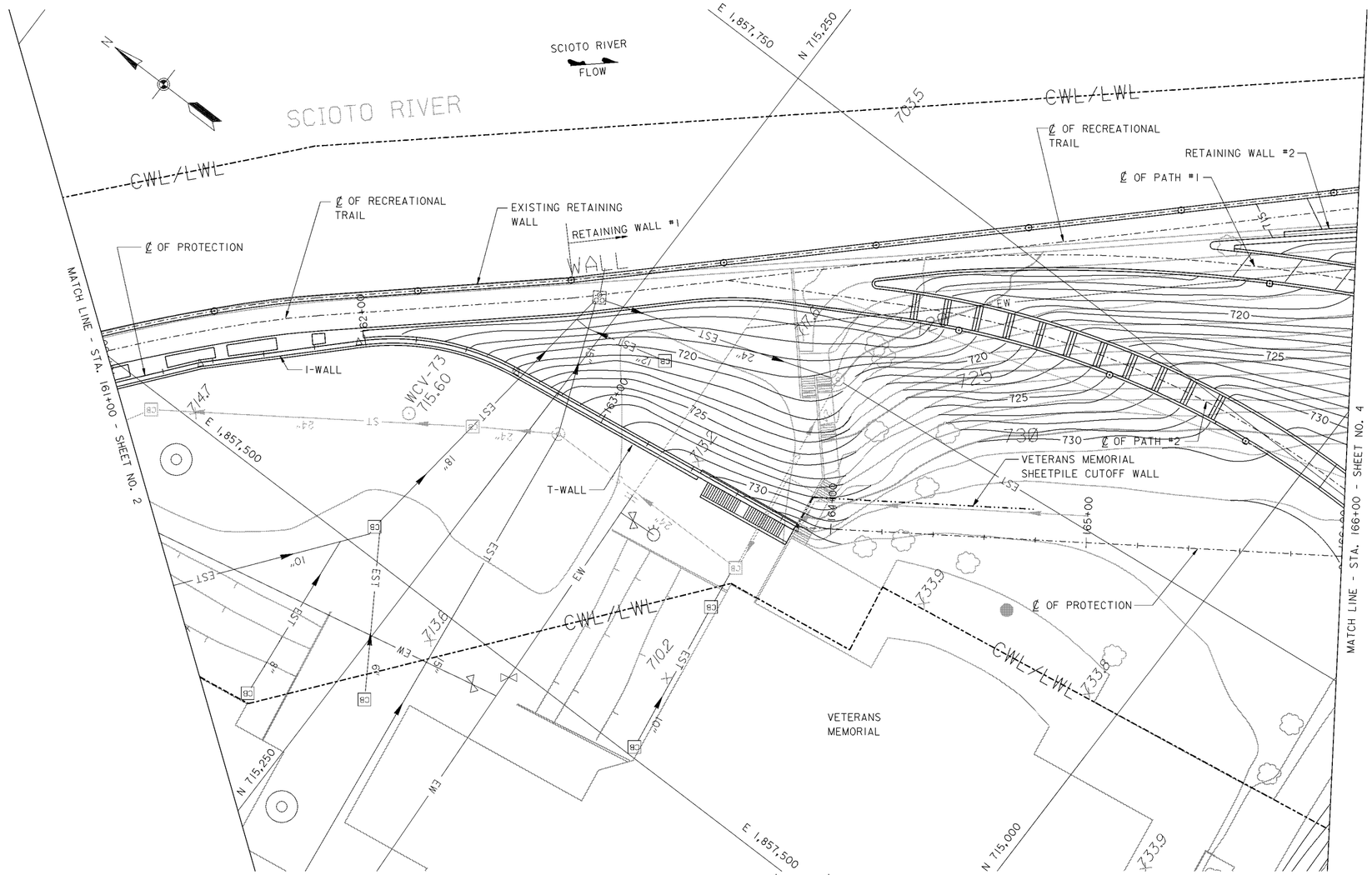
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
STA. 156+00 TO 161+00

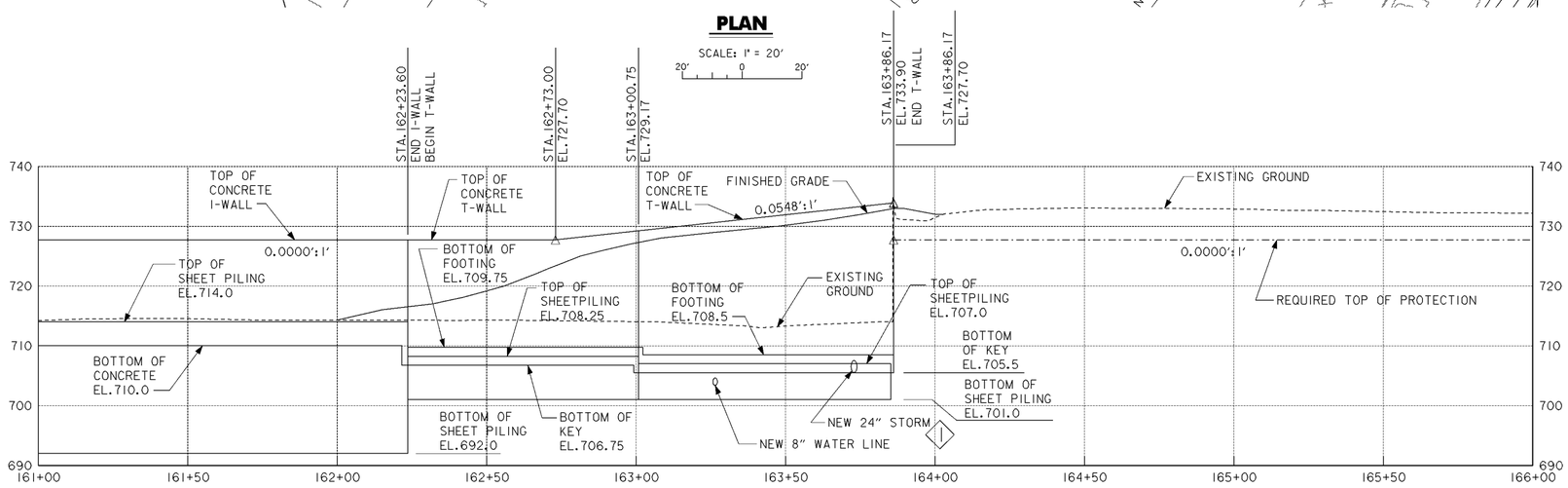
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 162
FILENAME: a0a5pp02.dgn
PEN TABLE:
Sheet 2 of 13

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET

NOTES

1. FOR CONCRETE I-WALL AND T-WALL DETAILS SEE DRAWING NOS.20.1/1 THRU 20.1/4.
2. FOR CONTRACTOR WORK LIMITS AND LIMITED WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR INTERIOR DRAINAGE SEE DRAWING NO.15/1.
4. FOR WATERLINE RELOCATION SEE DRAWING NO.15/11.
5. FOR RECREATIONAL TRAIL SEE DRAWING NOS. 16/50 AND 16/51 AND 20.2/35 THRU 20.2/37.
6. FOR DETAILS OF VETERAN'S MEMORIAL LAWN AND RETAINING WALLS SEE DRAWING NOS. 20.2/56 THRU 20.2/63.
7. FOR RETAINING WALL DETAILS SEE DRAWING NOS. 20.2/57 THRU 20.2/64.
8. FOR VETERANS MEMORIAL SHEETPILE CUTOFF WALL SEE DRAWING NO. 20.1/10.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

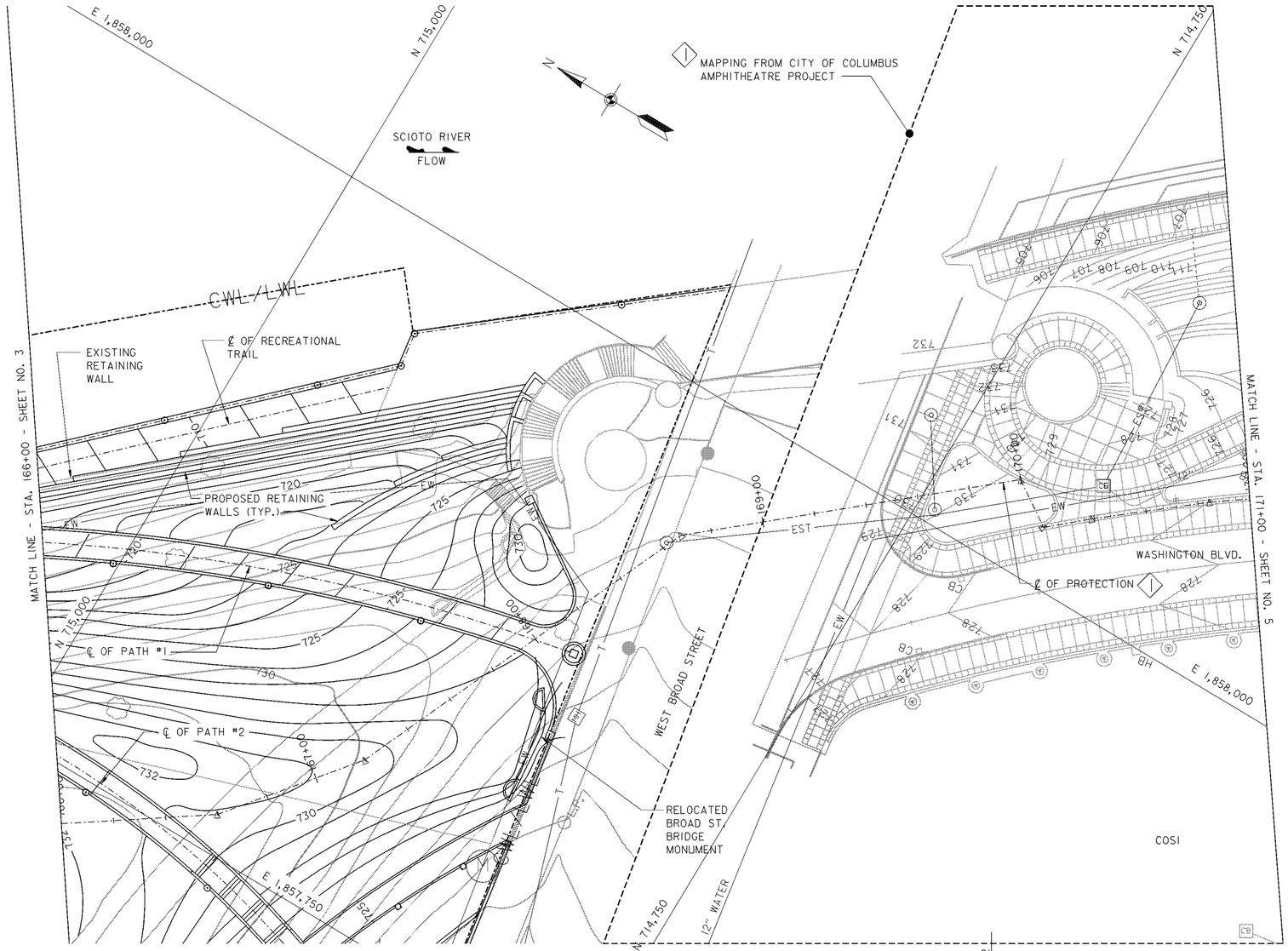
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
STA. 161+00 TO 166+00

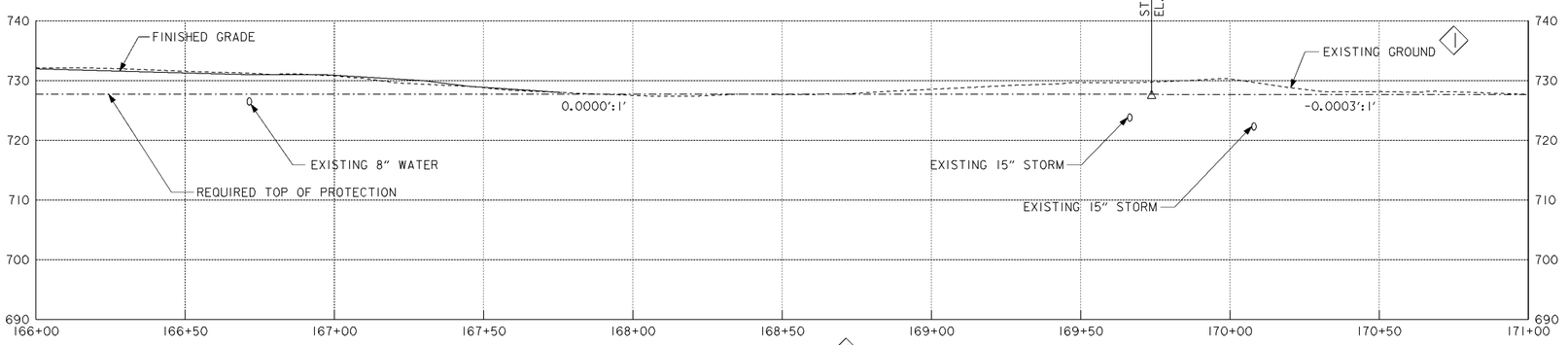
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 163
FILENAME: a0a5pp03.dgn
PEN TABLE:
Sheet 3 of 13

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET

NOTES

1. FOR CONTRACTOR WORK LIMITS AND LIMITED WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
2. FOR WATERLINE RELOCATION SEE DRAWING NO.15/11.
3. FOR RECREATIONAL TRAIL SEE DRAWING NOS.16/50 AND 16/51 AND 20.2/35 THRU 20.2/37.
4. FOR DETAILS OF VETERANS MEMORIAL LAWN AND RETAINING WALLS SEE DRAWING NOS. 20.2/56 THRU 20.2/63.
5. FOR BROAD STREET BRIDGE REMNANT DETAILS SEE DRAWING NO. 20.2/76.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

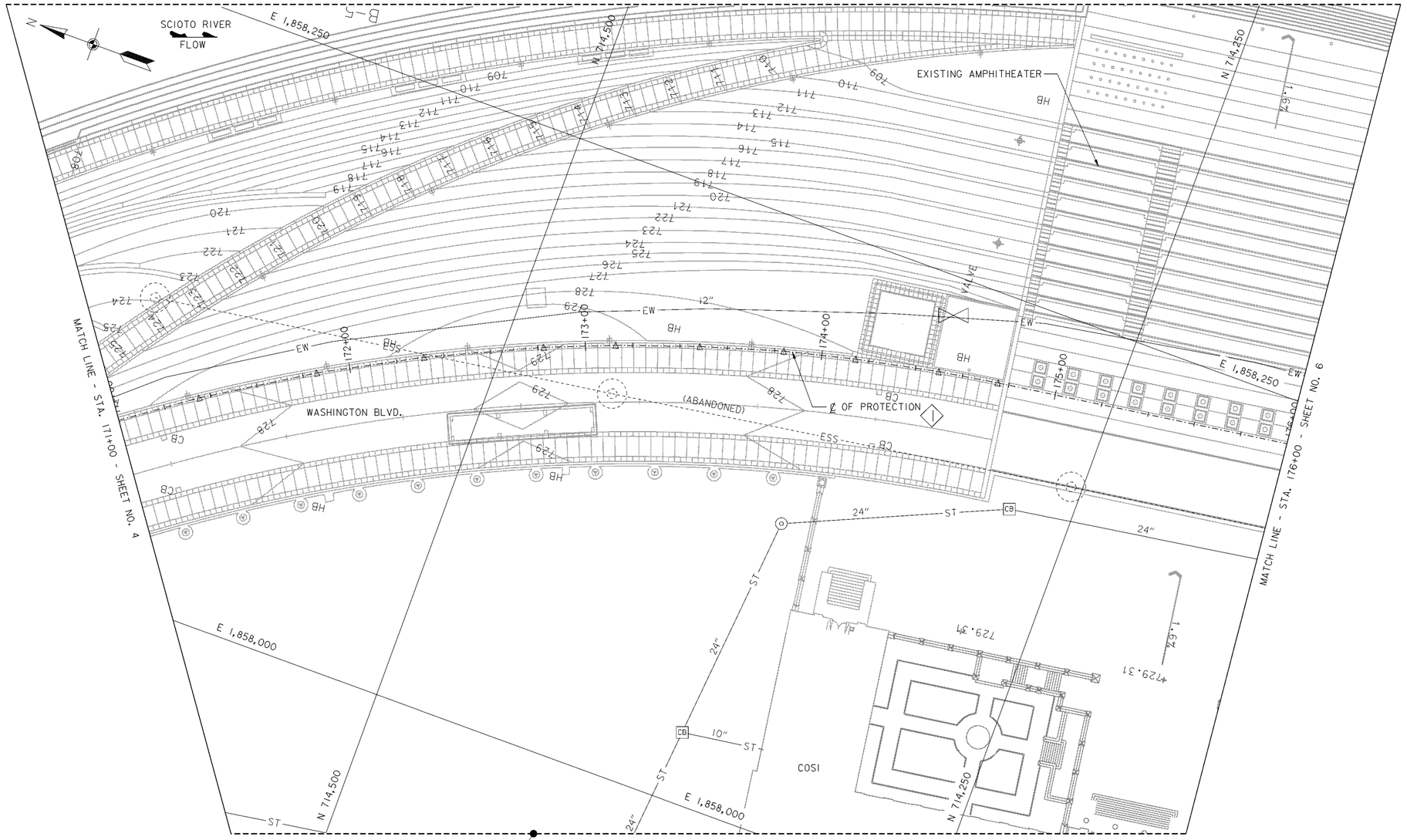
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
STA. 166+00 TO 171+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/4
FILENAME: a0a5pp04.dgn
PIN TABLE:
Sheet 4 of 13

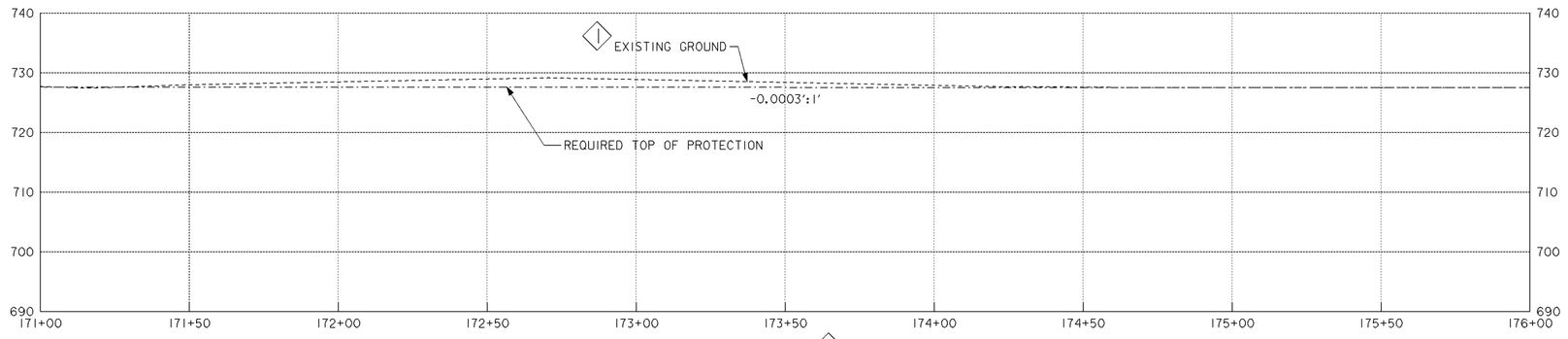
WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'

20' 0 20'



PROFILE

SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

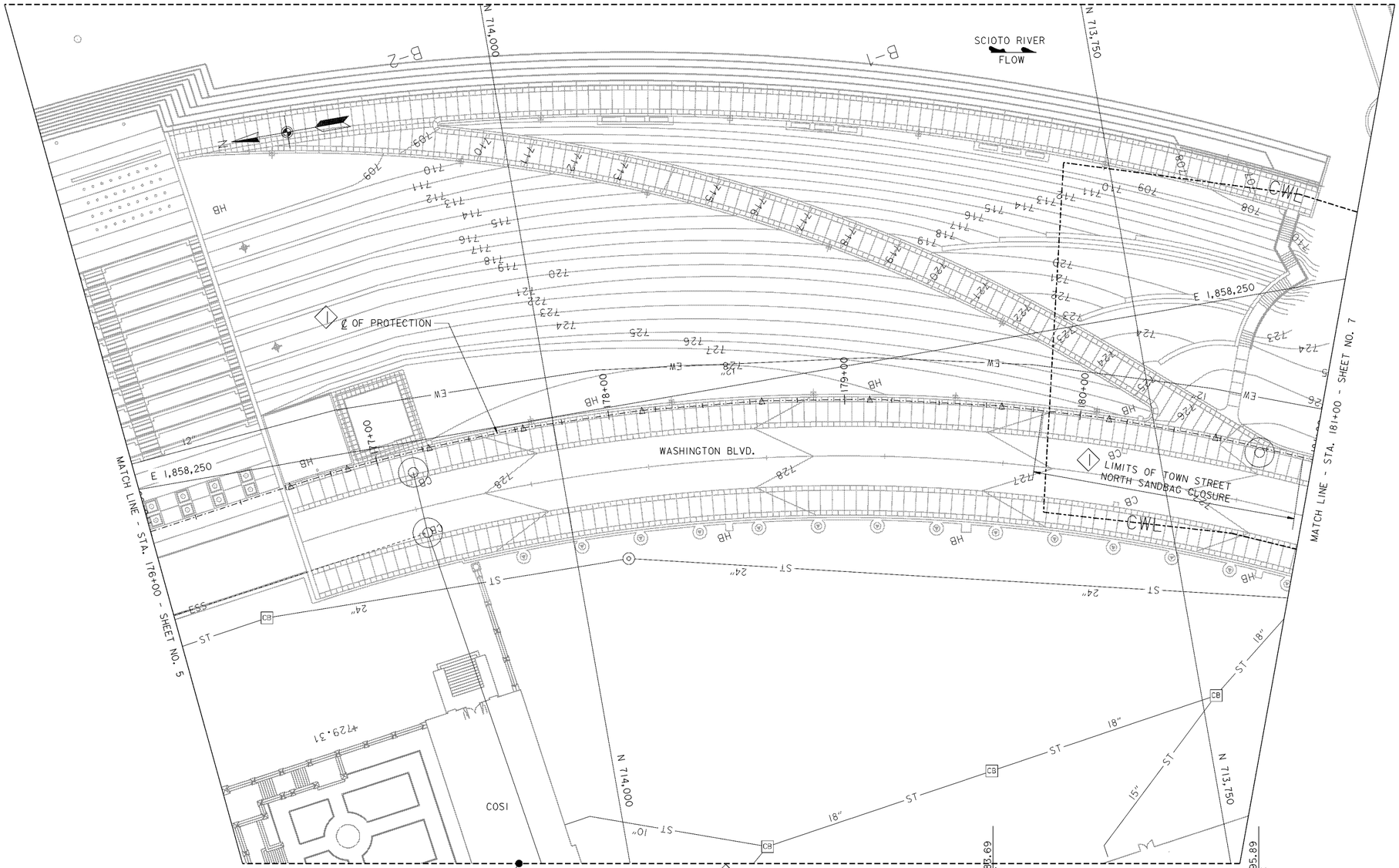
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
STA. 171+00 TO 176+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 165
FILENAME: a0a5pp05.dgn
PEN TABLE:
Sheet 5 of 13

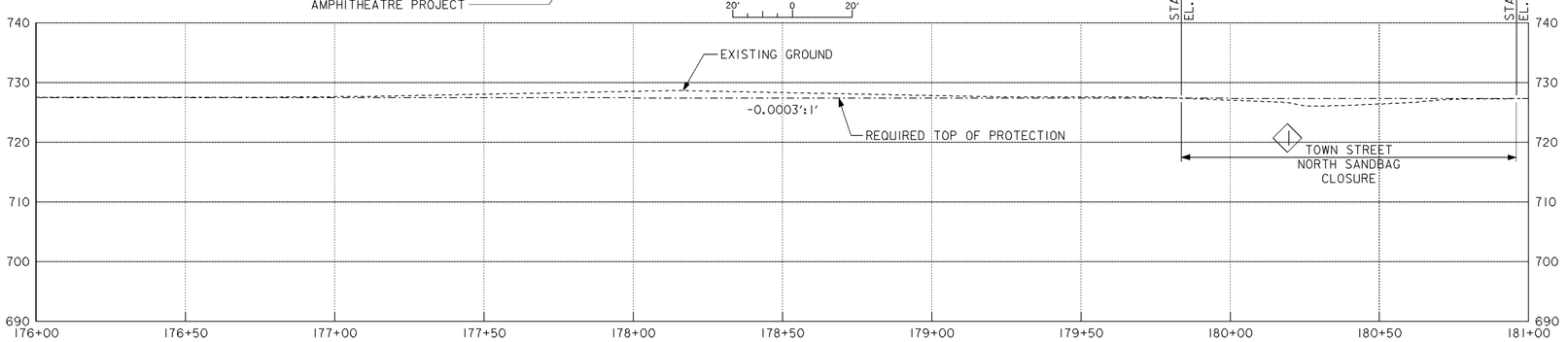
WORK AS CONSTRUCTED



MAPPING FROM CITY OF COLUMBUS AMPHITHEATRE PROJECT

PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET

NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
2. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NOS. 20.3/1 AND 20.3/2.
3. FOR TOWN STREET NORTH SANDBAG CLOSURE PLAN AND PROFILE SEE DRAWING NO. 20.2/4.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

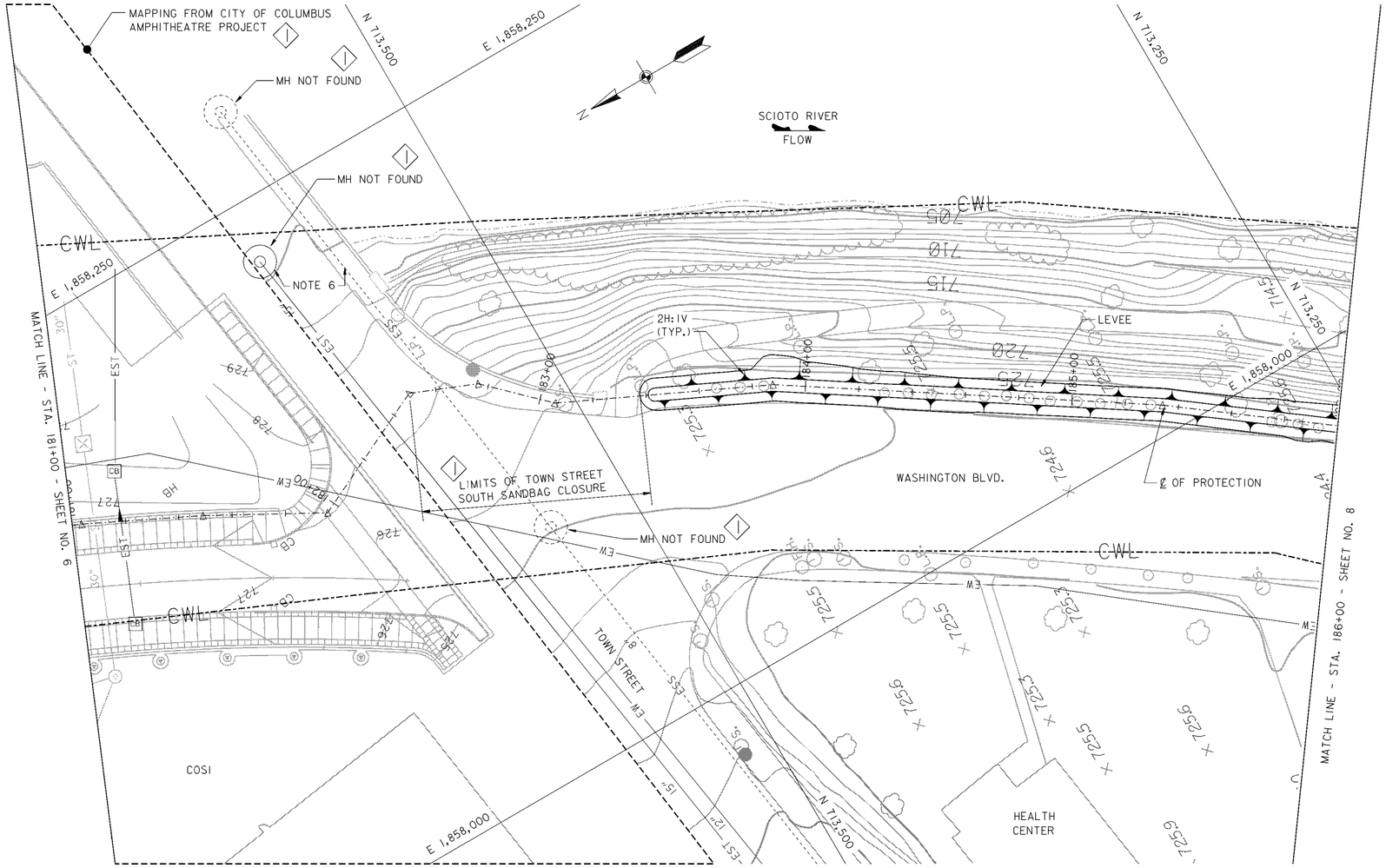
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
STA. 176+00 TO 181+00

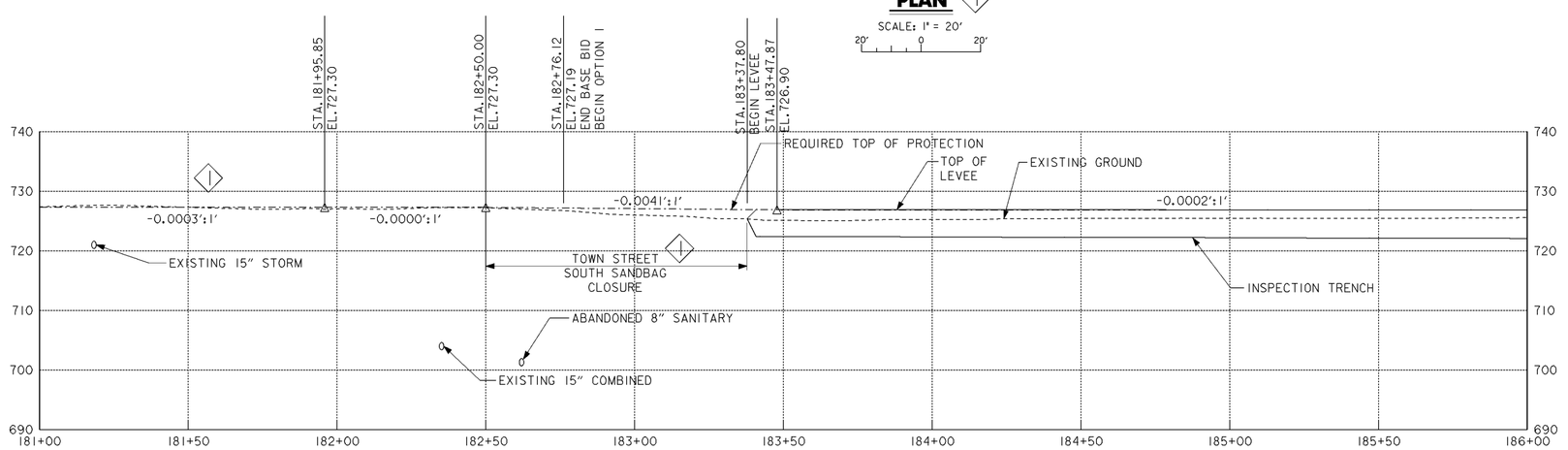
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/6
FILENAME: a0a5pp06.dgn
PRN TABLE:
Sheet 6 of 13

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET

NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
2. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NOS.20.3/1 AND 20.3/2.
3. FOR TOWN STREET SOUTH SANDBAG CLOSURE PLAN AND PROFILE SEE DRAWING NO.20.2/4.
4. FOR TOWN STREET WALKWAY ACCESS PLAN AND PROFILE SEE DRAWING NO.20.2/5.
5. SEE GENERAL NOTE 12 ON DRAWING NO.0/4 FOR REMOVAL AND INSTALLATION OF PARKING METERS ALONG WASHINGTON BOULEVARD.
6. THE CONTRACTOR SHALL FIELD LOCATE THE EXISTING 15-INCH STORM SEWER AND 8-INCH SANITARY SEWER AND FILL THE ABANDONED SECTIONS BACK TO THE EXISTING BULKHEADS SHOWN ON DRAWING NO. 11/4 IN ACCORDANCE WITH CMSC ITEM 202.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

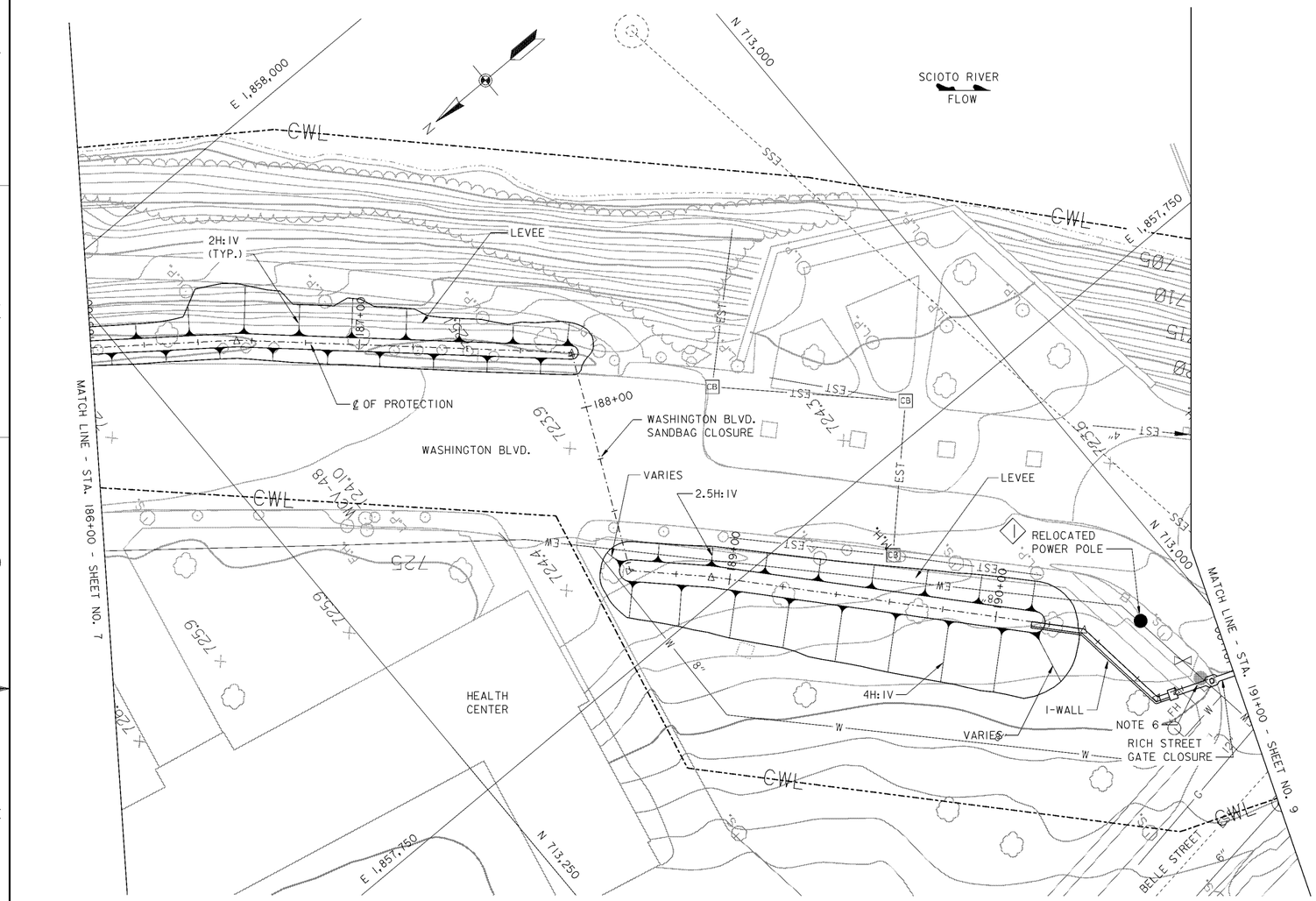
US Army Corps of Engineers

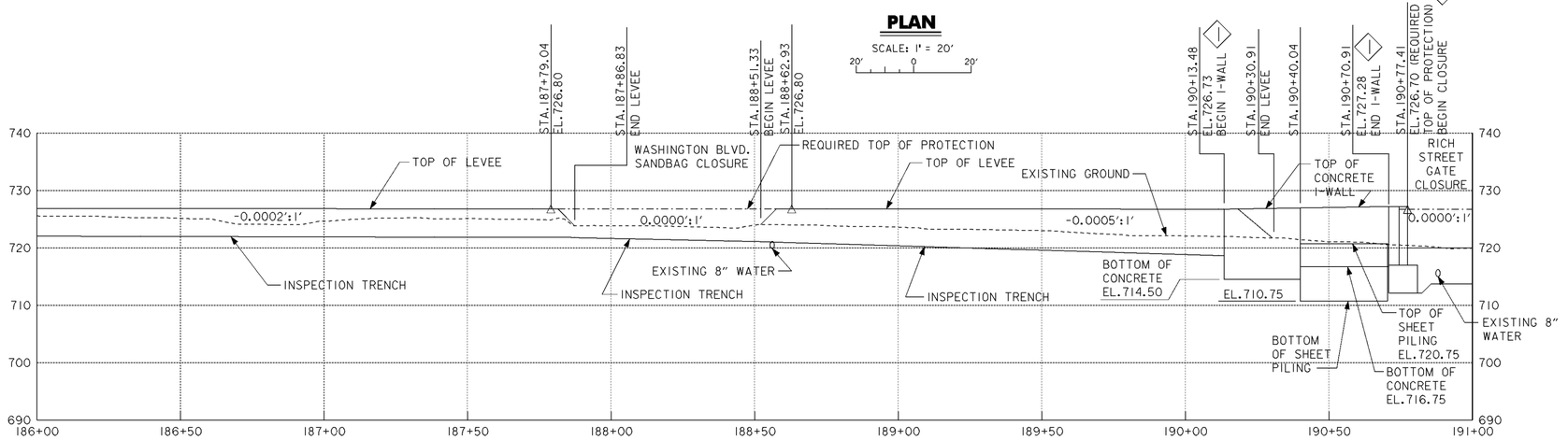
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
STA. 181+00 TO 186+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 167
FILENAME: a0a5pp07.dgn
PEN TABLE:
Sheet 7 of 13

WORK AS CONSTRUCTED





PROFILE
SCALE IN FEET

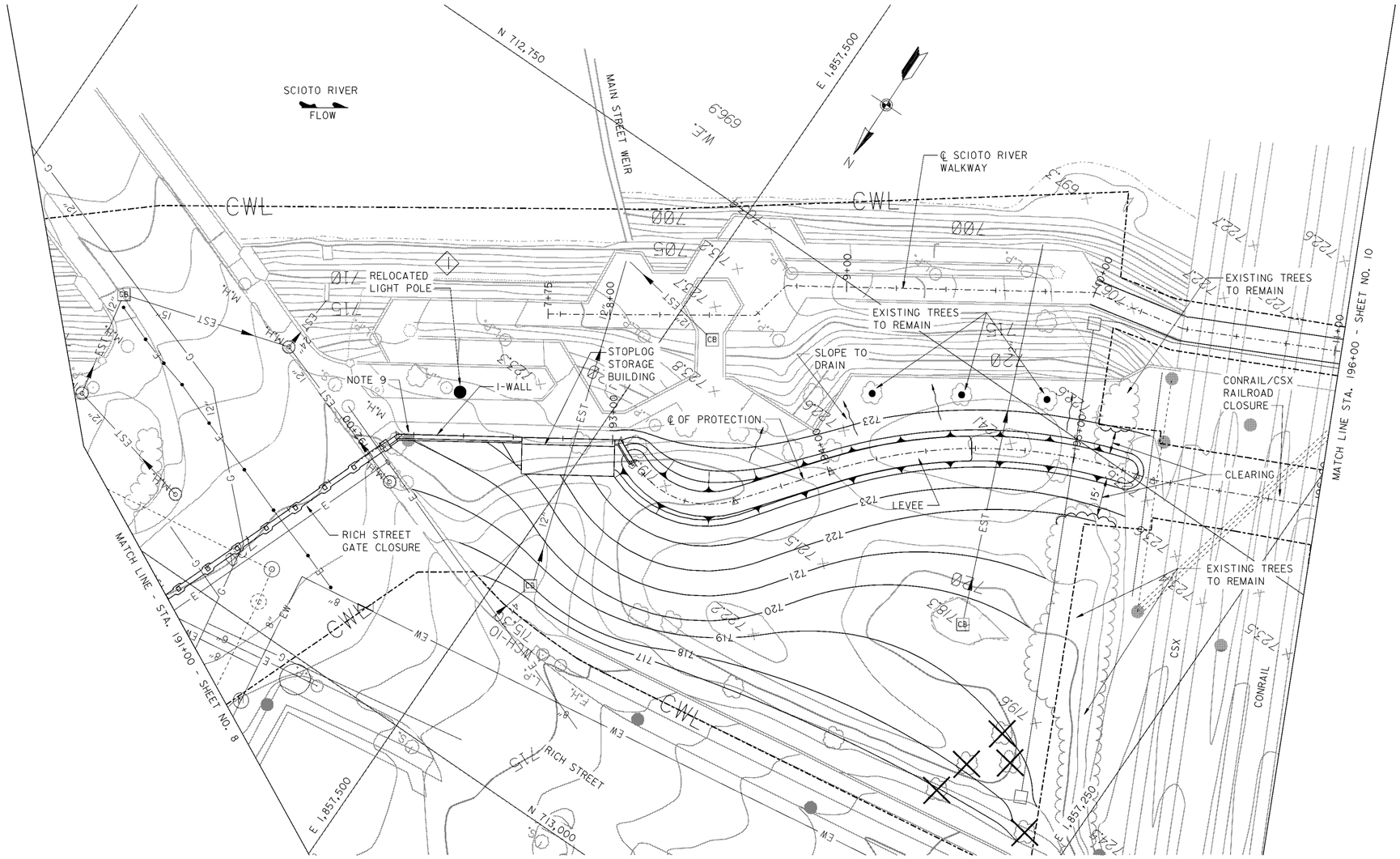
NOTES

1. FOR CONCRETE I-WALL DETAILS SEE DRAWING NOS. 20.1/1 AND 20.1/2.
2. FOR WASHINGTON BLVD. SANDBAG CLOSURE SEE DRAWING NO. 20.2/6.
3. FOR RICH STREET GATE CLOSURE SEE DRAWING NO. 20.2/7.
4. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NOS. 20.3/1 AND 20.3/2.
5. SEE GENERAL NOTE 12 ON DRAWING NO. 0/4 FOR REMOVAL AND INSTALLATION OF PARKING METERS ALONG WASHINGTON BOULEVARD.
6. CITY OF COLUMBUS DIVISION OF ELECTRICITY POWER POLE TO BE RELOCATED BY CITY OF COLUMBUS. THE CONTRACTOR SHALL COORDINATE THE RICH STREET STOP LOG CLOSURE CONSTRUCTION AT LEAST FOUR WEEKS PRIOR TO COMMENCEMENT OF THIS WORK WITH THE CITY OF COLUMBUS DIVISION OF ELECTRICITY.

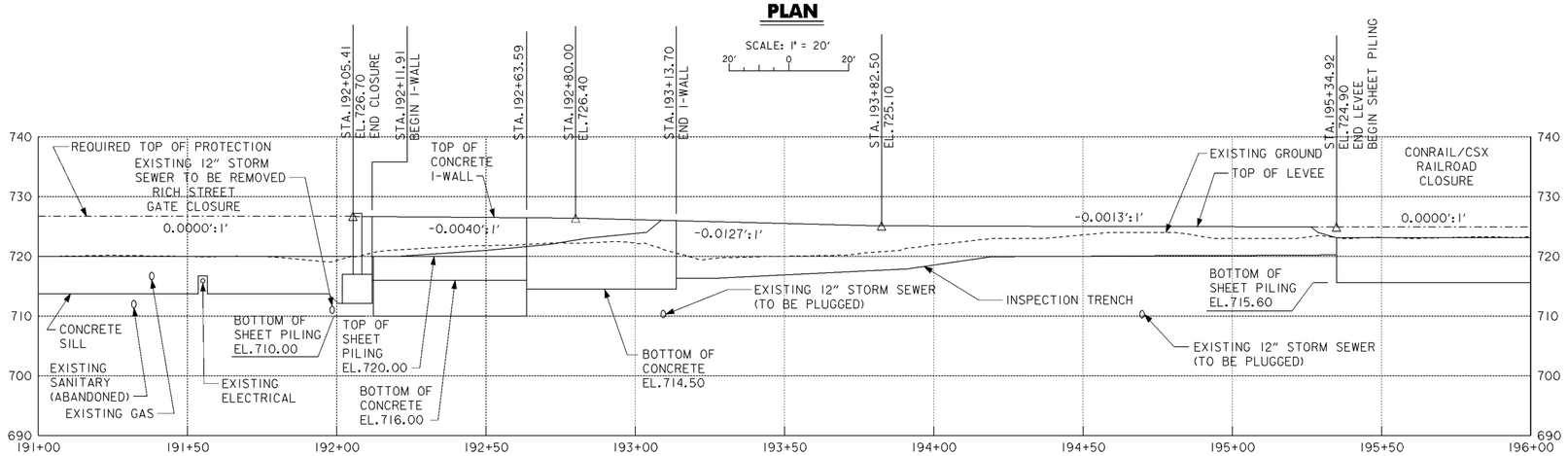
Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.HALL Drawn by: T.MULLINS Checked by: P.CONROY Reviewed by: Approved by:	US Army Corps of Engineers SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID **PLAN AND PROFILE** **STA. 186+00 TO 191+00**
Scale: AS SHOWN Date: MARCH 1998 Drawing Code: 16-PWC-10--	Sheet reference number: 168 FILENAME: PEN TABLE: a0a5pp08.dgn Sheet 8 of 13

WORK AS CONSTRUCTED



PLAN



PROFILE

SCALE IN FEET

NOTE: Line of Protection alignment has been changed per E-1934 pgs. 88-94

LEGEND

X - EXISTING TREE TO BE REMOVED

NOTES

1. FOR CONCRETE I-WALL DETAILS SEE DRAWING NOS. 20.1/1 AND 20.1/2.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR RICH STREET GATE CLOSURE SEE DRAWING NO. 20.2/7.
4. FOR RICH STREET STOPLOG STORAGE BUILDING SEE DRAWING NOS. 20.2/15 THRU 20.2/17.
5. FOR RICH STREET INTERIOR DRAINAGE SEE DRAWING NO. 15/2.
6. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NOS. 20.3/1 AND 20.3/2.
7. FOR CONRAIL/CSX RAILROAD CLOSURE SEE DRAWING NO. 20.2/18.
8. FOR SCIOTO RIVER WALKWAY SEE DRAWING NOS. 20.5/2 THRU 20.5/4.
9. CITY OF COLUMBUS DIVISION OF ELECTRICITY POWER POLE TO BE RELOCATED BY CITY OF COLUMBUS. THE CONTRACTOR SHALL COORDINATE THE RICH STREET STOP LOG STORAGE CONSTRUCTION AT LEAST FOUR WEEKS PRIOR TO COMMENCEMENT OF THIS WORK WITH THE CITY OF COLUMBUS DIVISION OF ELECTRICITY.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

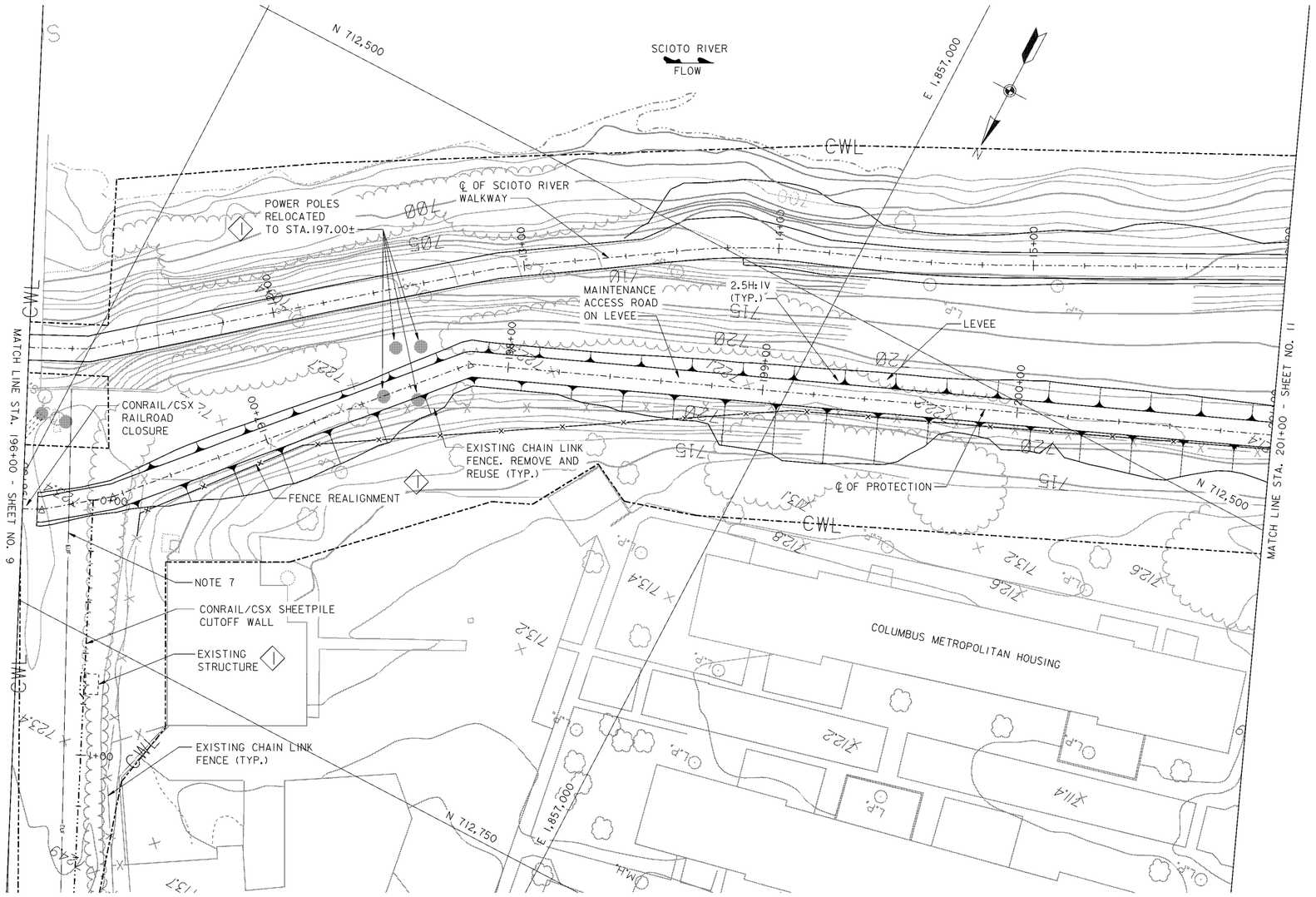
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
STA. 191+00 TO 196+00

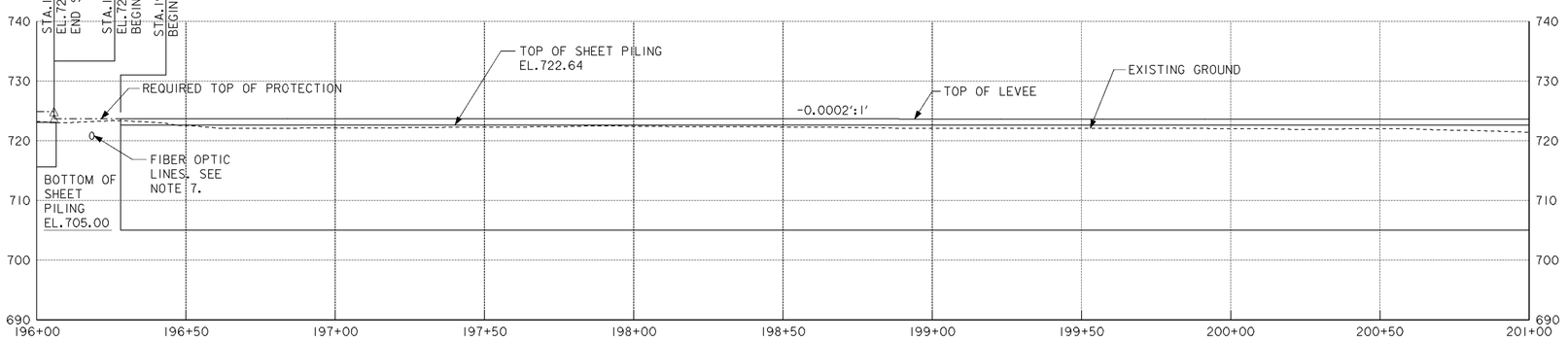
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 169
FILENAME: a0a5pp09.dgn
PRN TABLE:
Sheet 9 of 13

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET

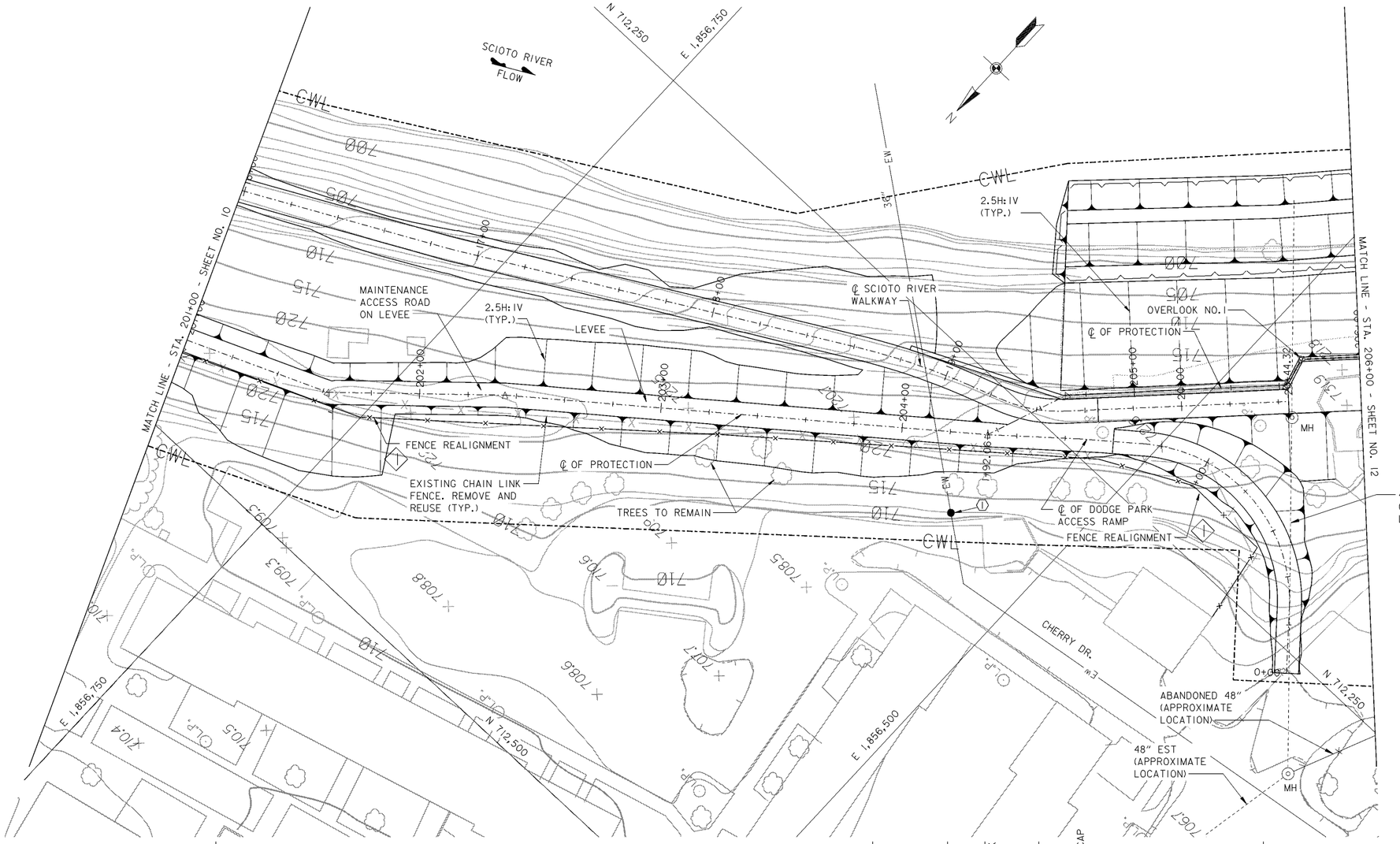
NOTES

1. FOR CONCRETE I-WALL DETAILS SEE DRAWING NOS. 20.1/1 AND 20.1/2.
2. FOR CONRAIL/CSX RAILROAD CLOSURE SEE DRAWING NO. 20.2/18.
3. FOR CONRAIL/CSX SHEETPILE CUTOFF WALL SEE DRAWING NO. 20.2/20.
4. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NOS. 20.3/1 AND 20.3/2.
5. FOR SCIOTO RIVER WALKWAY SEE DRAWING NOS. 20.5/2 THRU 20.5/4.
6. THE LOCATION OF THE CHAIN LINK FENCE IS APPROXIMATE AND SHALL BE FIELD SURVEYED PRIOR TO DISMANTLING. THE FENCE SHALL BE REMOVED AND STORED FOR RE-USE TO THE ORIGINAL ALIGNMENT EXCEPT AS SHOWN AFTER CONSTRUCTION OF THE LEVEE IS COMPLETE.
7. MULTIPLE EXISTING FIBER OPTIC LINES (2 MCI AND SPRINT) LOCATED IN RAILROAD RIGHT-OF-WAY SOUTH OF CONRAIL/CSX TRACKS. THE CONTRACTOR SHALL HAVE LINES LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION AND PLACEMENT OF EMBANKMENT.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: T.MULLINS	**PLAN AND PROFILE STA. 196+00 TO 201+00**
Checked by: P.CONROY	
Reviewed by:	Scale: AS SHOWN; Date: MARCH 1998; Drawing Code: 16-PWC-10-; Sheet reference number: 16/10; FILENAME: a0a5pp10.dgn; PEN TABLE:
Approved by:	Sheet 10 of 13

WORK AS CONSTRUCTED



① EXISTING 36" WATERLINE FIELD LOCATED AT
NORTHING 712,302.78
EASTING 1,856,544.40
TOP AT EL. 699.88
WATERLINE ALIGNMENT IS SHOWN APPROXIMATELY.
CONTRACTOR TO EXERCISE CAUTION WHEN DRIVING SHEET PILING IN THE VICINITY OF EXISTING 36" WATER LINE.

NOTES

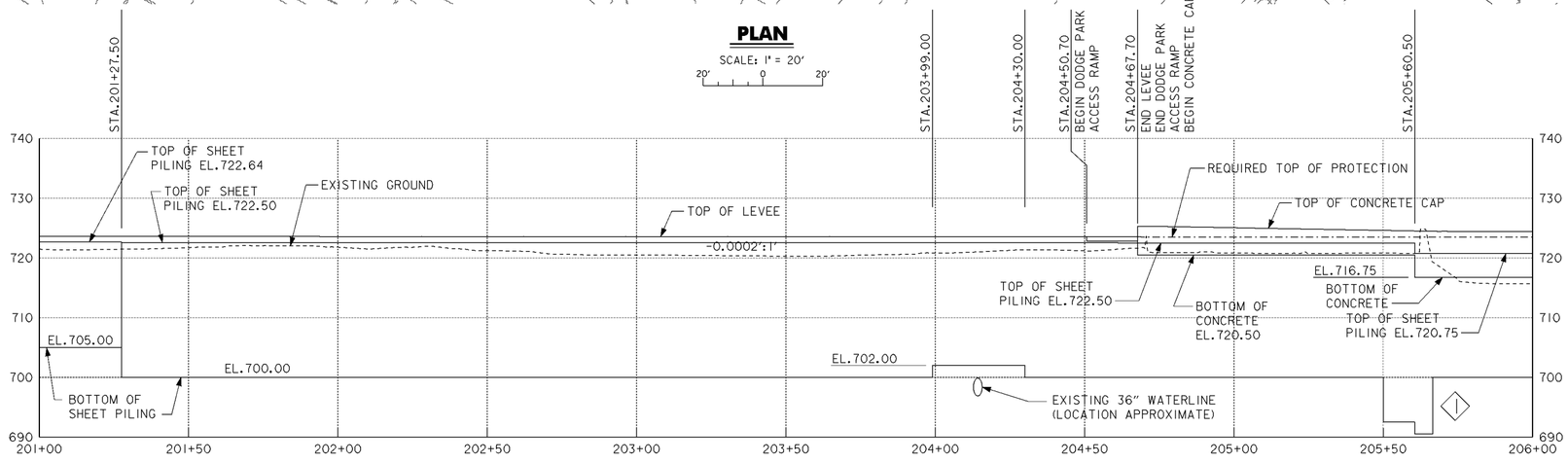
1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NOS. 20.3/1 AND 20.3/2.
2. FOR DODGE PARK ACCESS RAMP SEE DRAWING NO. 20.2/21.
3. FOR SCIOTO RIVER WALKWAY SEE DRAWING NOS. 20.5/2 THRU 20.5/4.
4. FOR CONCRETE CAP SEE DRAWING NO. 20.3/2.
5. FOR DODGE PARK OVERLOOKS SITE PLANS SEE DRAWING NOS. 20.2/24 AND 20.2/25.
6. THE LOCATION OF THE CHAIN LINK FENCE IS APPROXIMATE AND SHALL BE FIELD SURVEYED PRIOR TO DISMANTLING. THE FENCE SHALL BE REMOVED AND STORED FOR RE-USE TO THE ORIGINAL ALIGNMENT EXCEPT AS SHOWN AFTER CONSTRUCTION OF THE LEVEE IS COMPLETE.

PLAN

SCALE: 1" = 20'

PROFILE

SCALE IN FEET



Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

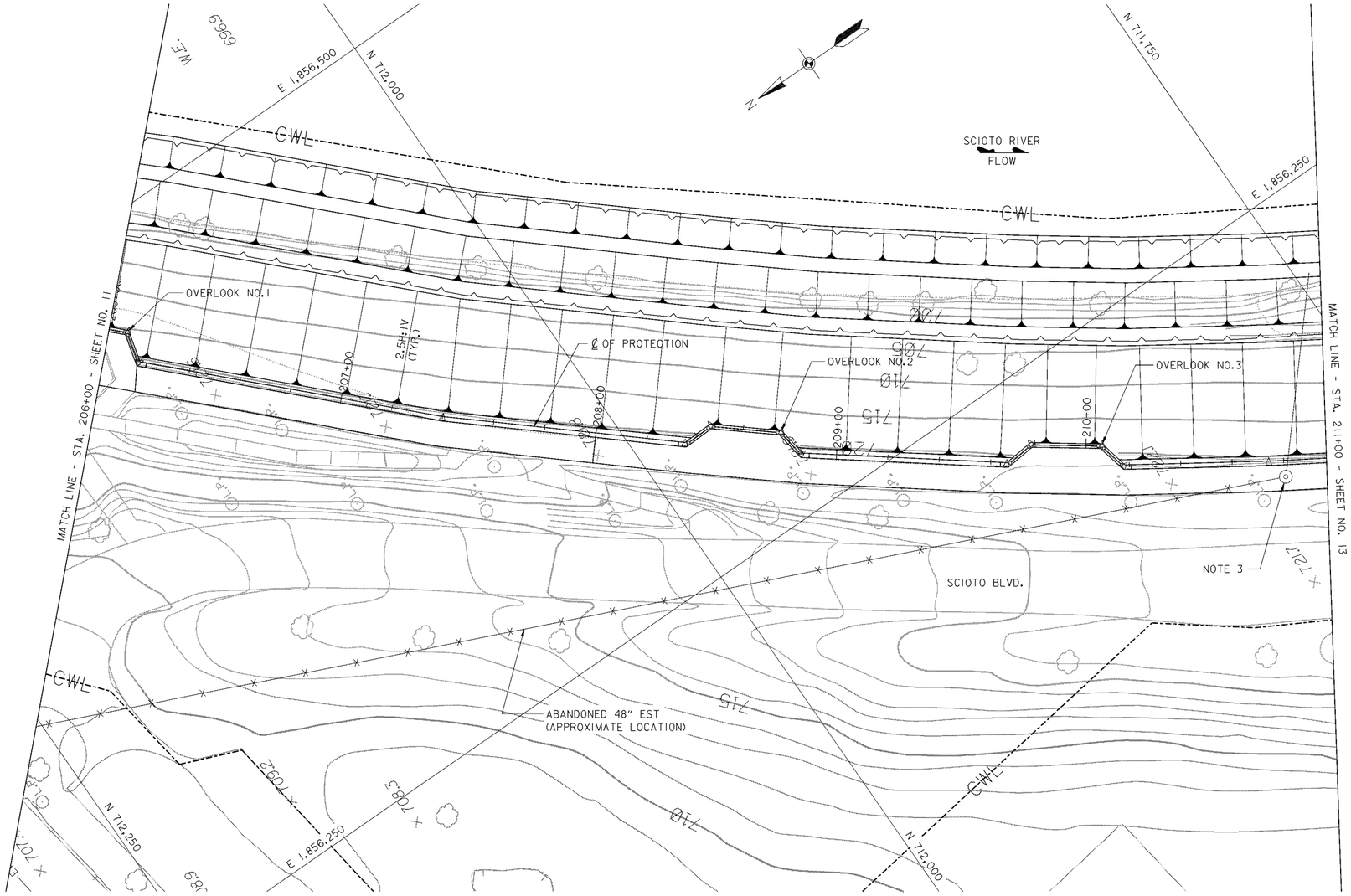
US Army Corps of Engineers

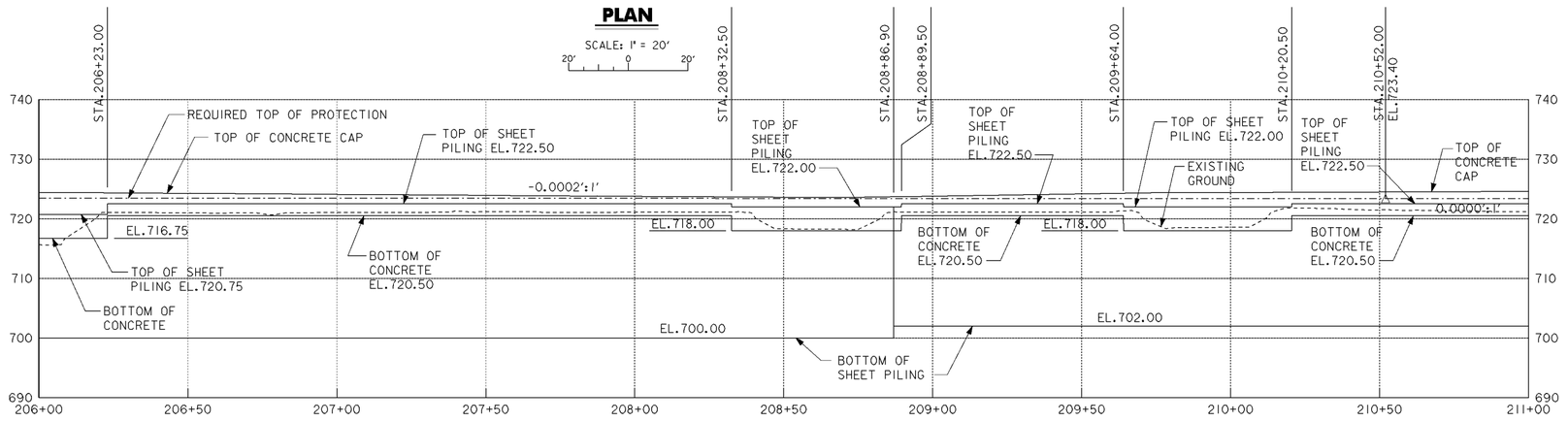
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
STA. 201+00 TO 206+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/11
FILENAME: a0a5pp11.dgn
PEN TABLE:
Sheet 11 of 13

WORK AS CONSTRUCTED





PROFILE
SCALE IN FEET

NOTES

1. FOR CONCRETE CAP SEE DRAWING NO. 20.3/2.
2. FOR DODGE PARK OVERLOOKS SITE PLAN AND SECTIONS SEE DRAWING NOS. 20.2/24 AND 20.2/25.
3. THE CONTRACTOR SHALL DRIVE SHEET PILING THROUGH THE ABANDONED 48" STORM SEWER. LOCATION OF SEWER TO BE FIELD DETERMINED BY CONTRACTOR AS NECESSARY.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

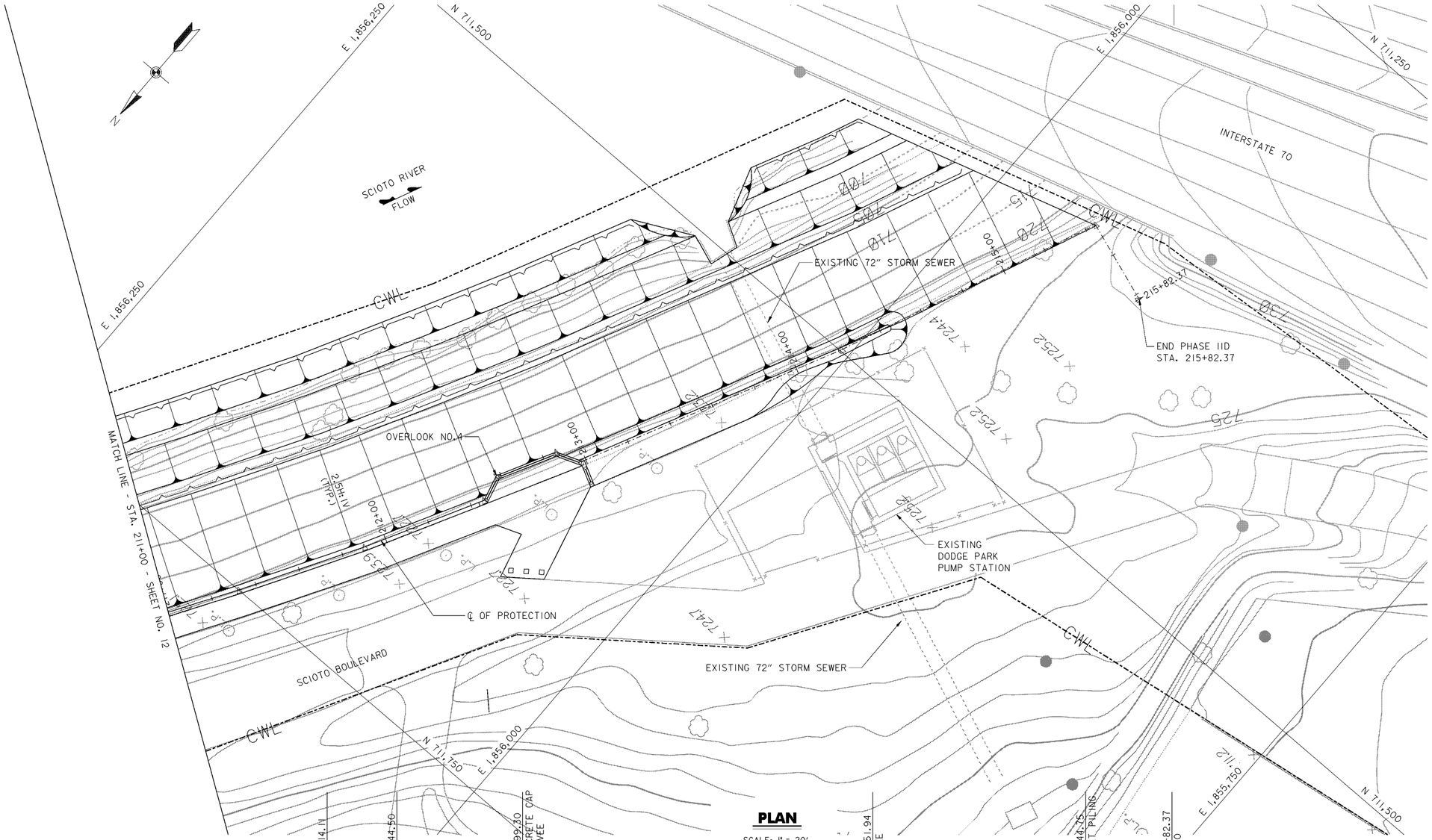
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
STA. 206+00 TO 211+00

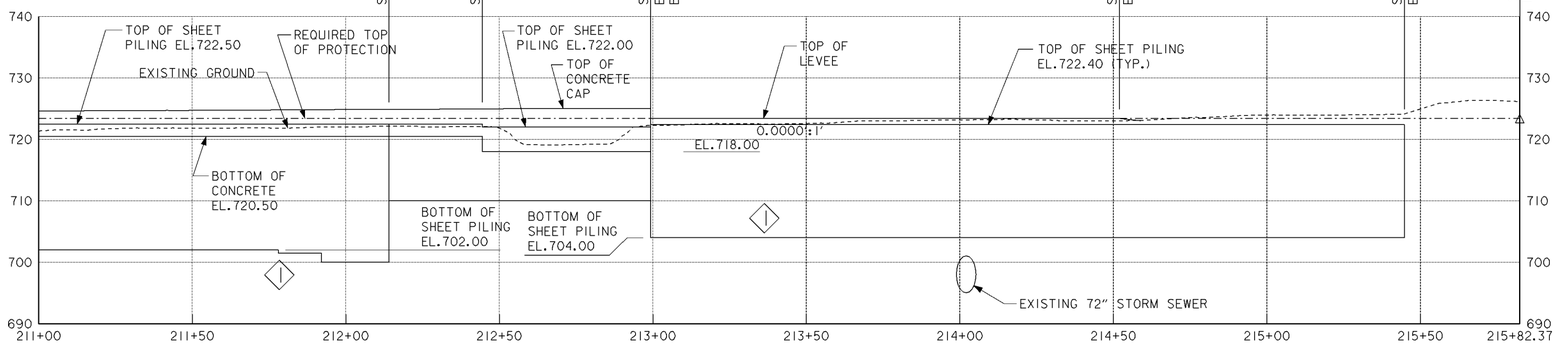
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/12
FILENAME: 00a5ppt12.dgn
PEN TABLE:
Sheet 12 of 13

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET

NOTES

1. FOR CONCRETE CAP SEE DRAWING NO. 20.3/2.
2. FOR DODGE PARK OVERLOOKS SITE PLAN AND SECTIONS SEE DRAWING NOS. 20.2/24 AND 20.2/25.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

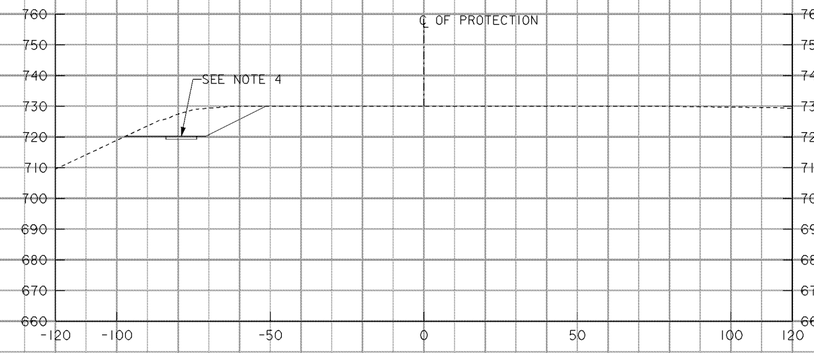
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

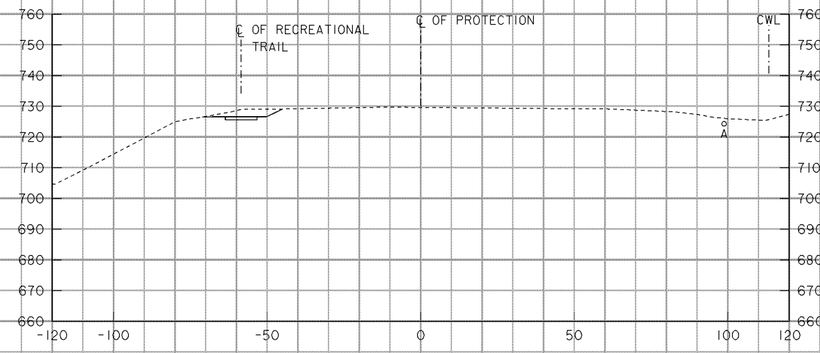
PLAN AND PROFILE
STA211+00 TO 215+82.37

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/13
FILENAME: a0a5pp13.dgn
PBN TABLE:
Sheet 13 of 13

WORK AS CONSTRUCTED



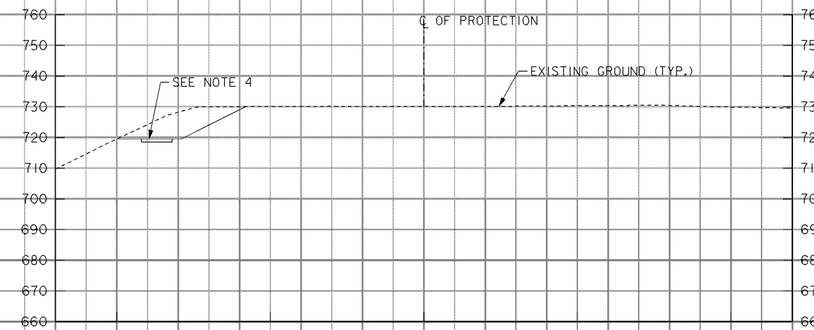
151+50



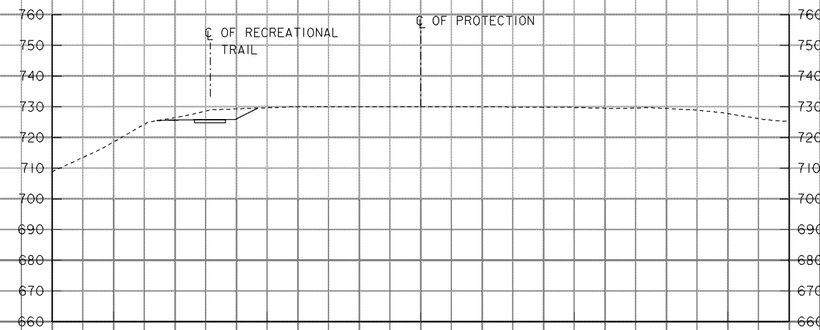
153+00

LEGEND

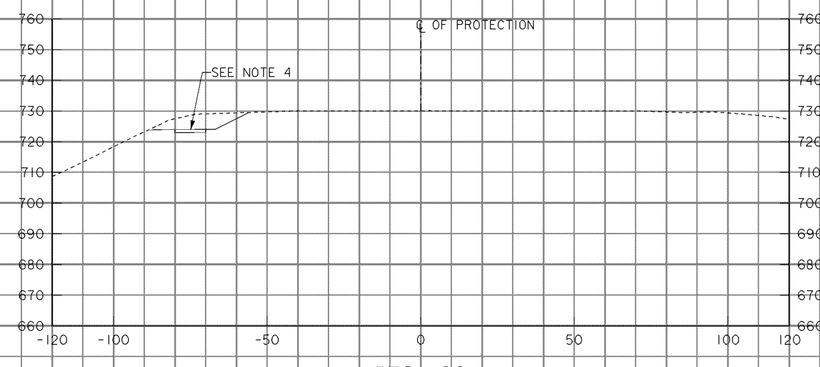
A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
J -EXISTING 12" RCP STORM SEWER
K -NEW 12" RCP STORM SEWER
L -EXISTING 12" WATERLINE
M -EXISTING 24" RCP STORM SEWER
N -ABANDONED SANITARY SEWER
O -EXISTING 15" BRICK STORM SEWER
P -EXISTING 4" RCP STORM SEWER
Q -EXISTING 8" SANITARY SEWER
R -EXISTING 36" WATERLINE
S -EXISTING 72" RCP STORM SEWER
T -EXISTING 6" WATERLINE
U -EXISTING TELEPHONE LINE
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



151+26.73



152+50



152+00

NOTES

1. FOR RECREATIONAL TRAIL SEE DRAWING NOS. 16/50, 16/51 AND 20.2/35 THRU 20.2/37.
2. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NOS. 20.3/1 AND 20.3/2.
3. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
4. RECREATIONAL TRAIL SHOWN AT STA.151+25.72, STA.151+50, AND STA.152+00 NOT INCLUDED IN THIS CONTRACT. CONSTRUCTION COMPLETED UNDER PHASE IIC CONTRACT.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

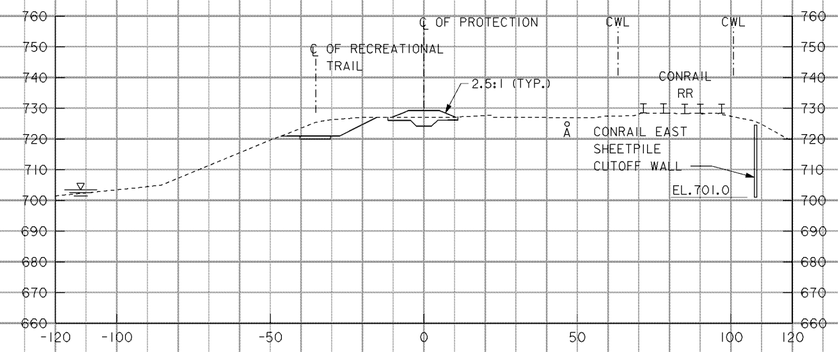
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

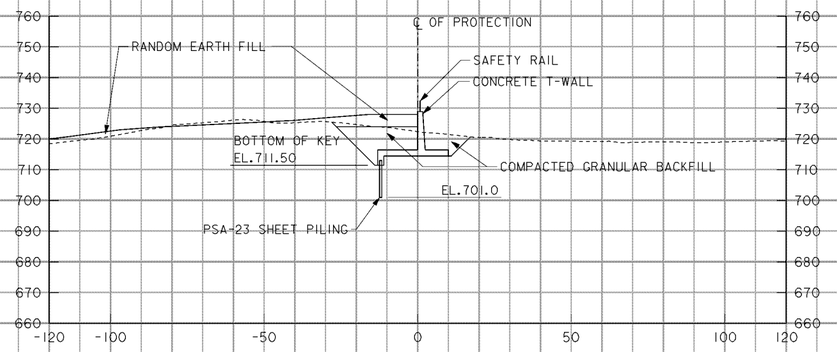
CROSS SECTIONS
151+26.73 TO 153+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/15
FILENAME: 00a5xa01.dgn
PEN TABLE: b.ptb f.ptb
Sheet 1 of 22

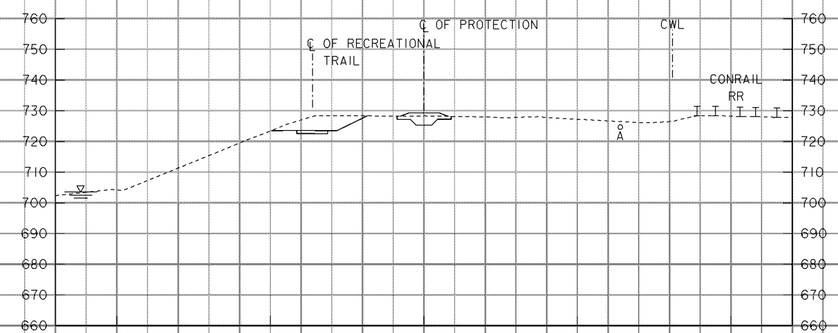
WORK AS CONSTRUCTED



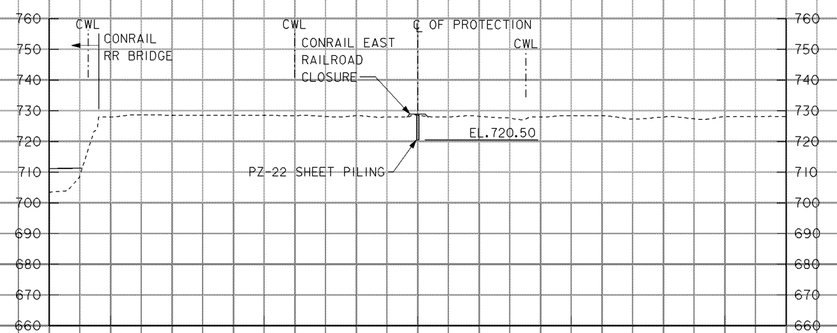
154+50



156+00



154+00



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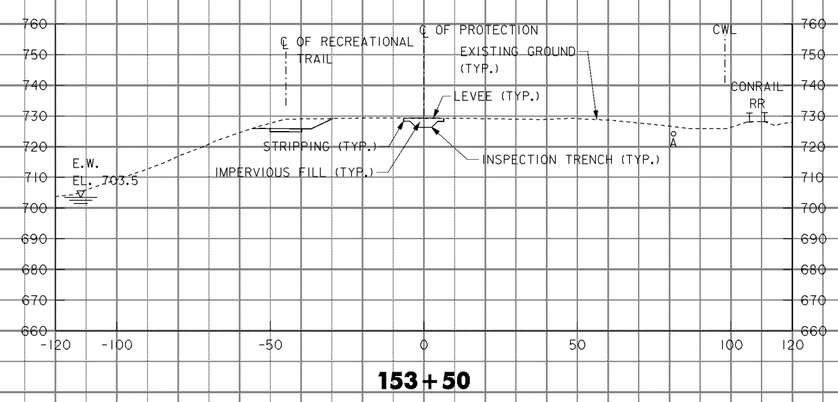
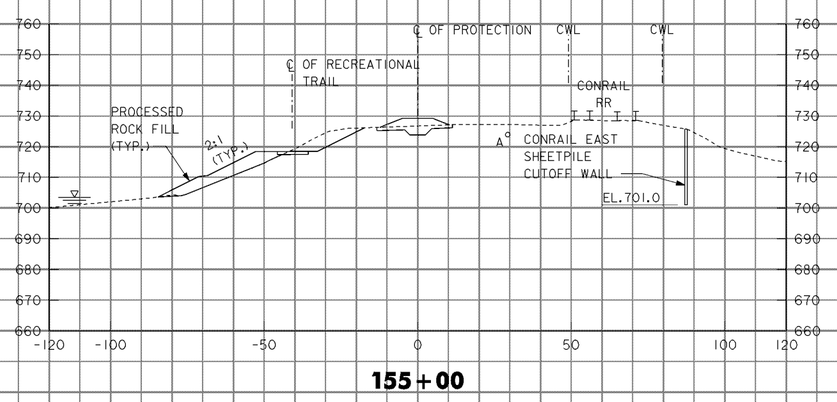


153+50



155+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
J -EXISTING 12" RCP STORM SEWER
K -NEW 12" RCP STORM SEWER
L -EXISTING 12" WATERLINE
M -EXISTING 24" RCP STORM SEWER
N -ABANDONED SANITARY SEWER
O -EXISTING 15" BRICK STORM SEWER
P -EXISTING 4" RCP STORM SEWER
Q -EXISTING 8" SANITARY SEWER
R -EXISTING 36" WATERLINE
S -EXISTING 72" RCP STORM SEWER
T -EXISTING 6" WATERLINE
U -EXISTING TELEPHONE LINE
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN

NOTES

1. FOR RECREATIONAL TRAIL SEE DRAWING NOS. 16/50, 16/51 AND 20.2/35 THRU 20.2/37.
2. FOR TYPICAL LEVEE AND T-WALL SECTIONS SEE DRAWING NOS. 20.3/1 AND 20.3/2.
3. FOR CONRAIL EAST RAILROAD CLOSURE SEE DRAWING NO. 20.2/1.
4. FOR CONCRETE T-WALL DETAILS SEE DRAWING NOS. 20.1/3 AND 20.1/4.
5. FOR CONRAIL EAST SHEETPILE CUTOFF WALL SEE DRAWING NO. 20.2/3.
6. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
7. FOR LIMITS OF SAFETY RAIL SEE DRAWING NOS. 20.2/38 AND 20.2/39.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

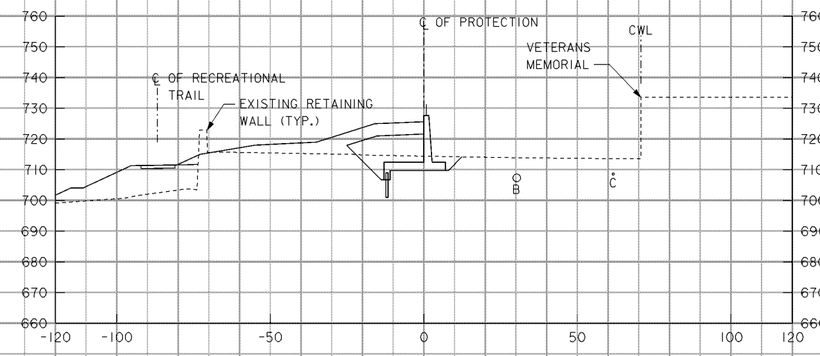
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

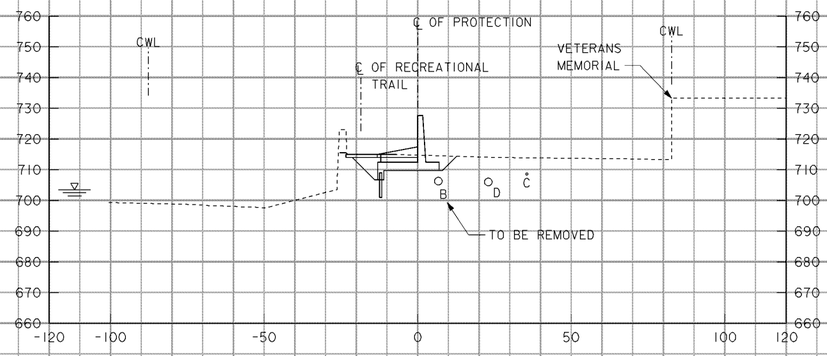
CROSS SECTIONS 153+50 TO 156+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/16
FILENAME: 00o3sx02.dgn
PEN TABLE: b.ptb f.ptb
Sheet 2 of 22

WORK AS CONSTRUCTED



157+50



159+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
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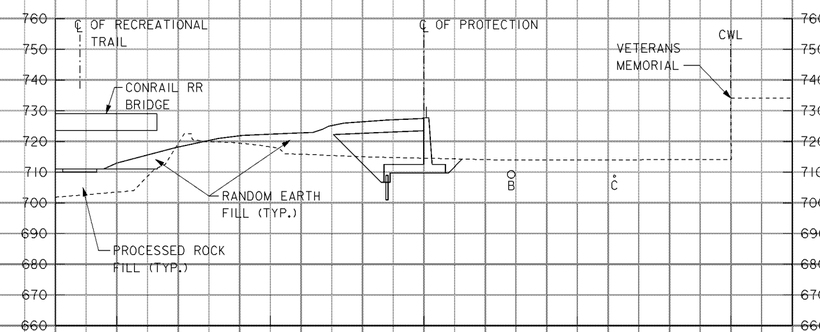
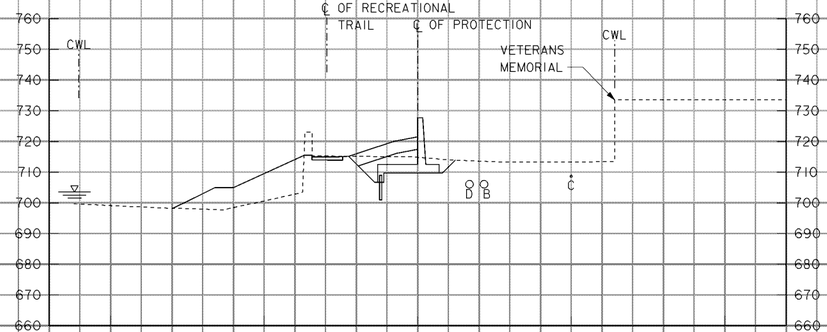
U -EXISTING TELEPHONE LINE
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



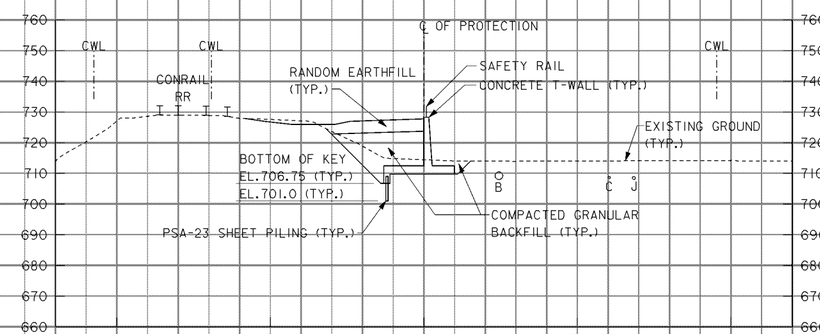
157+00



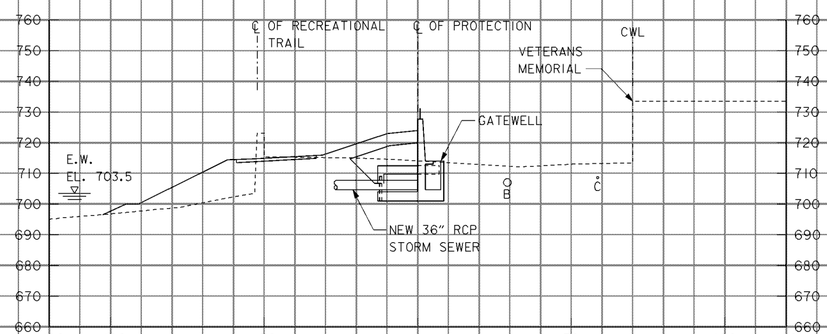
158+50

NOTES

1. FOR RECREATIONAL TRAIL SEE DRAWING NOS. 16/50, 16/51 AND 20.2/35 THRU 20.2/37.
2. FOR CONCRETE T-WALL DETAILS SEE DRAWING NOS. 20.1/3 AND 20.1/4.
3. FOR TYPICAL CONCRETE T-WALL SECTIONS SEE DRAWING NOS. 20.3/1 AND 20.3/2.
4. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
5. FOR LIMITS OF SAFETY RAIL SEE DRAWING NOS. 20.2/38 AND 20.2/39.
6. FOR LIMITS OF DEMOLITION OF EXISTING RETAINING WALL SEE DRAWING NOS. 20.2/29 THRU 20.2/31.



156+50



158+00

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

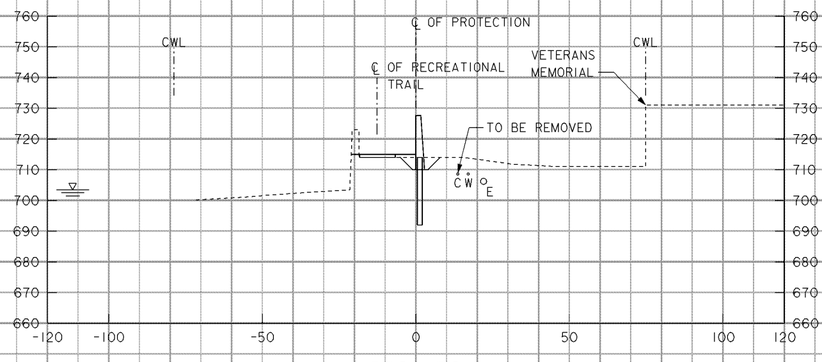
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

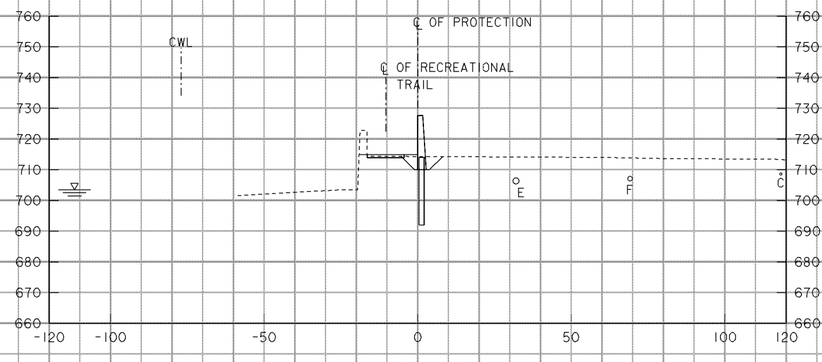
CROSS SECTIONS 156+50 TO 159+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/17
FILENAME: 00s3xs03.dgn
PEN TABLE: b.ptb f.ptb
Sheet 3 of 22

WORK AS CONSTRUCTED



160+50



162+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
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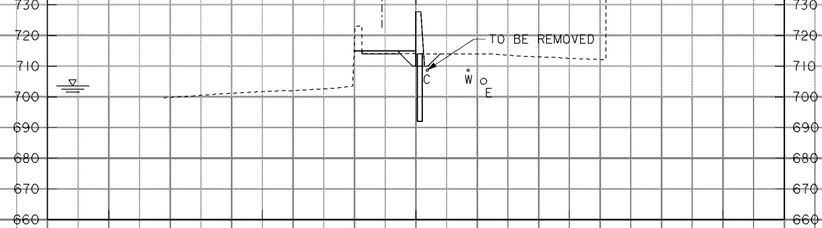
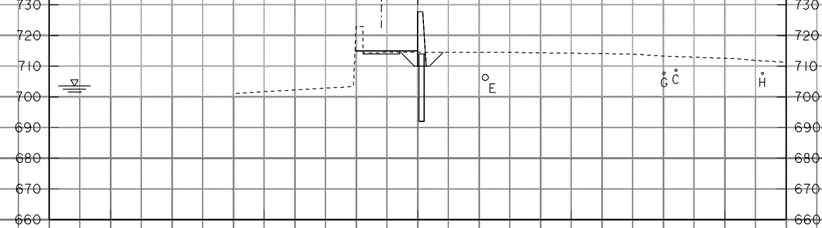
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



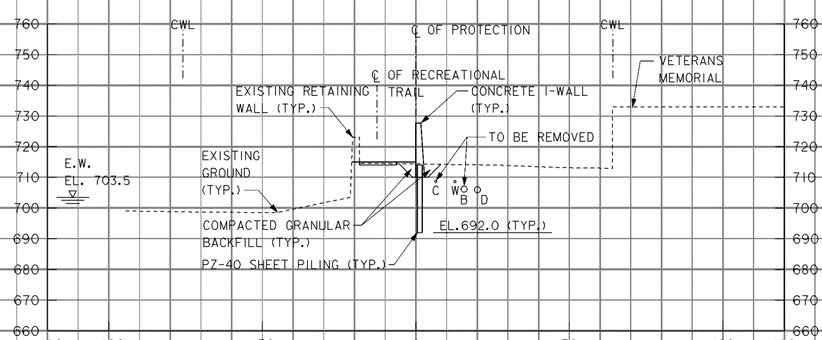
160+00



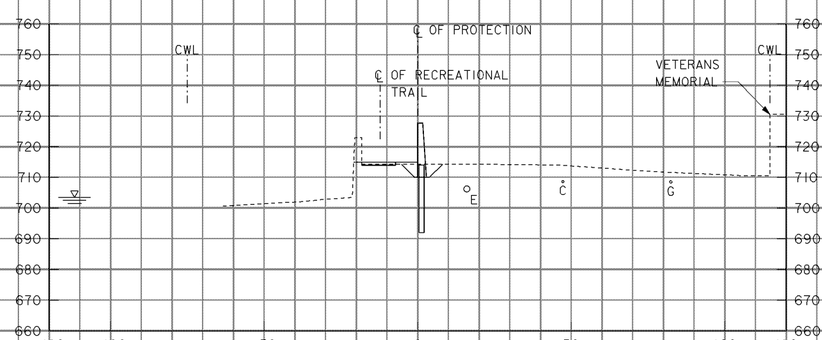
161+50

NOTES

1. FOR RECREATIONAL TRAIL SEE DRAWING NOS. 16/50, 16/51 AND 20.2/35 THRU 20.2/37.
2. FOR CONCRETE I-WALL DETAILS SEE DRAWING NO. 20.1/1.
3. FOR TYPICAL CONCRETE I-WALL SECTIONS SEE DRAWING NOS. 20.3/1 AND 20.3/2.
4. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
5. FOR LIMITS OF DEMOLITION OF EXISTING RETAINING WALL SEE DRAWING NOS. 20.2/29 THRU 20.2/31.



159+50



161+00

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

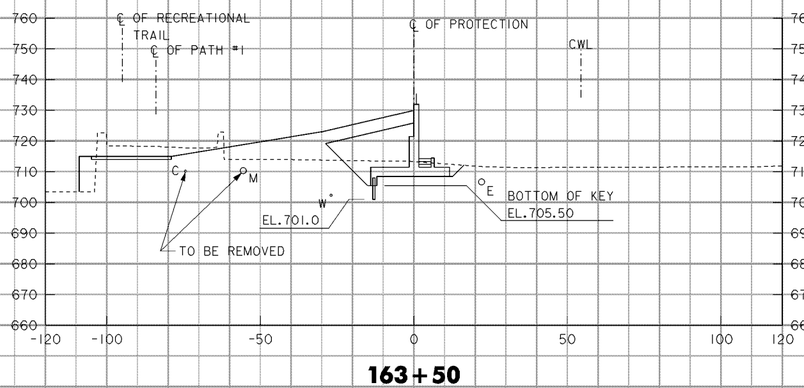
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

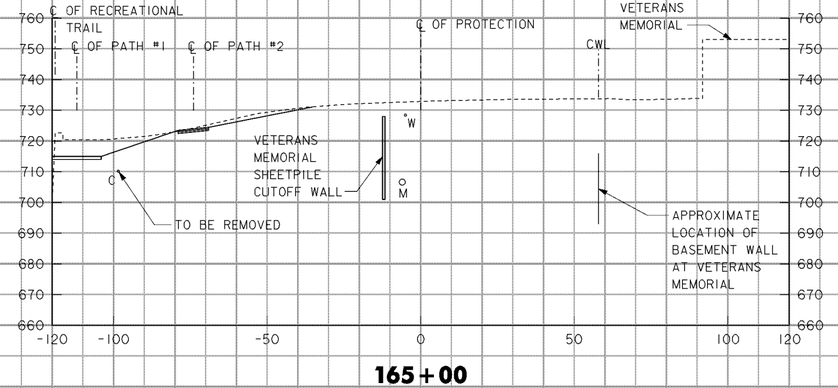
CROSS SECTIONS 159+50 TO 162+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/18
FILENAME: 00a5xs04.dgn
PEN TABLE:
Sheet 4 of 22

WORK AS CONSTRUCTED



163+50



165+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
J -EXISTING 12" RCP STORM SEWER
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L -EXISTING 12" WATERLINE
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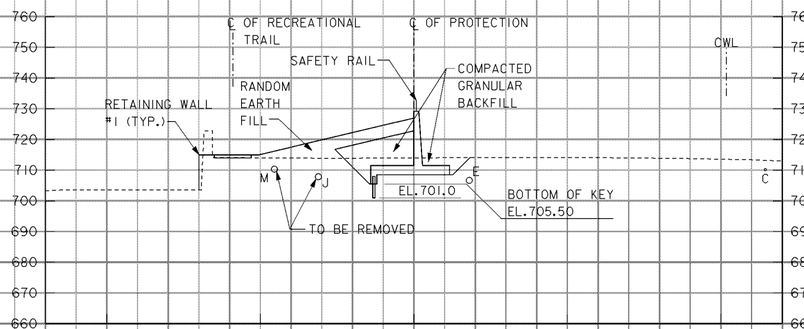
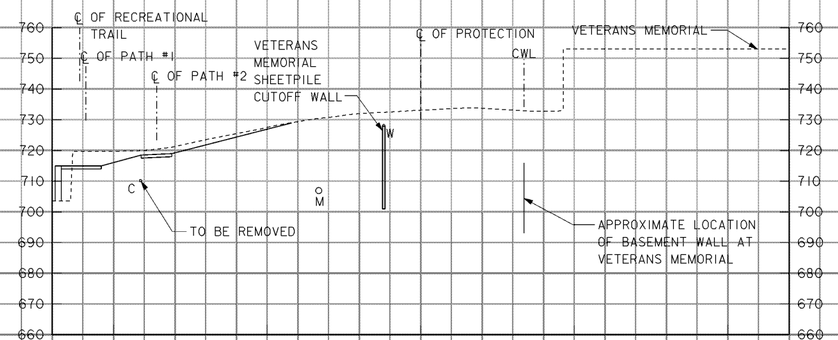
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



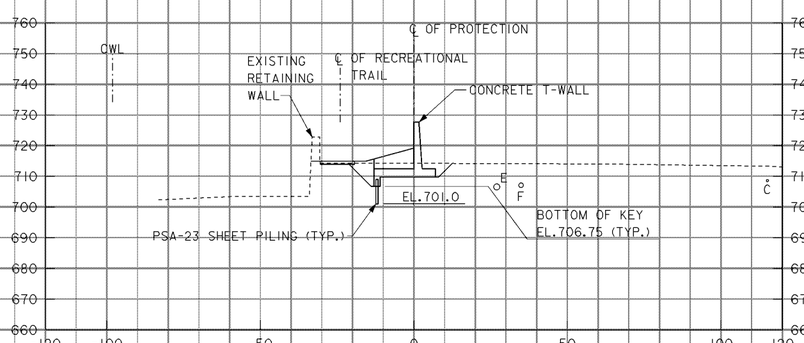
163+00



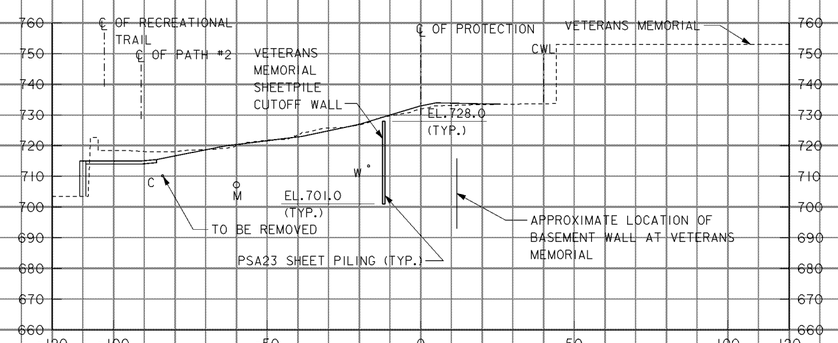
164+50

NOTES

1. FOR RECREATIONAL TRAIL SEE DRAWING NOS. 16/50, 16/51 AND 20.2/35 THRU 20.2/37.
2. FOR CONCRETE T-WALL DETAILS SEE DRAWING NOS. 20.1/3 AND 20.1/4.
3. FOR TYPICAL CONCRETE T-WALL SECTIONS SEE DRAWING NO. 20.3/1 AND 20.3/2.
4. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
5. FOR DETAILS OF VETERANS MEMORIAL LAWN AND RETAINING WALLS SEE DRAWING NOS. 20.2/56 THRU 20.2/68.
6. FOR LIMITS OF SAFETY RAIL SEE DRAWING NOS. 20.2/39 AND 20.2/40.
7. FOR LIMITS OF DEMOLITION OF EXISTING RETAINING WALL SEE DRAWING NOS. 20.2/29 THRU 20.2/31.
8. FOR VETERANS MEMORIAL SHEETPILE CUTOFF WALL SEE DRAWING NO. 20.1/10.



162+50



164+00

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

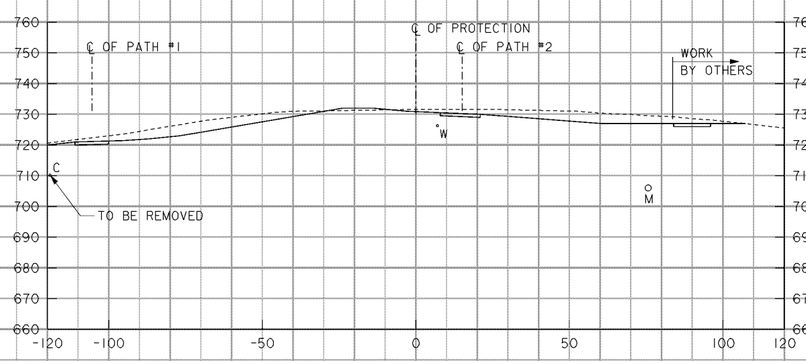
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CROSS SECTIONS 162+50 TO 165+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 1619
FILENAME: 00a5xs05.dgn
PEN TABLE: b.ptb f.ptb
Sheet 5 of 22

WORK AS CONSTRUCTED



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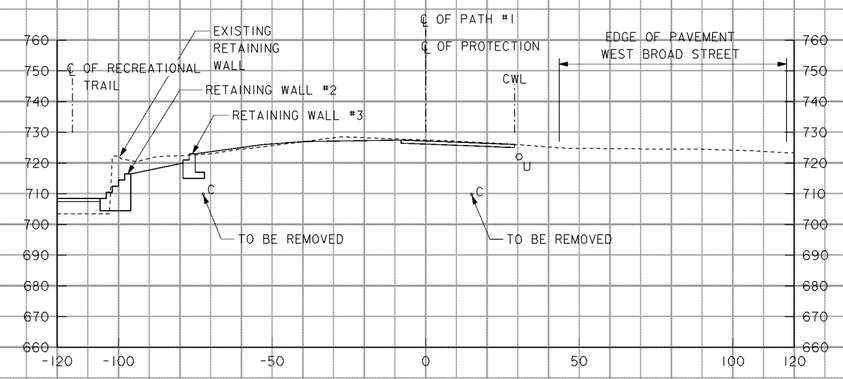

168+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
J -EXISTING 12" RCP STORM SEWER
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L -EXISTING 12" WATERLINE
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N -ABANDONED SANITARY SEWER
O -EXISTING 15" BRICK STORM SEWER
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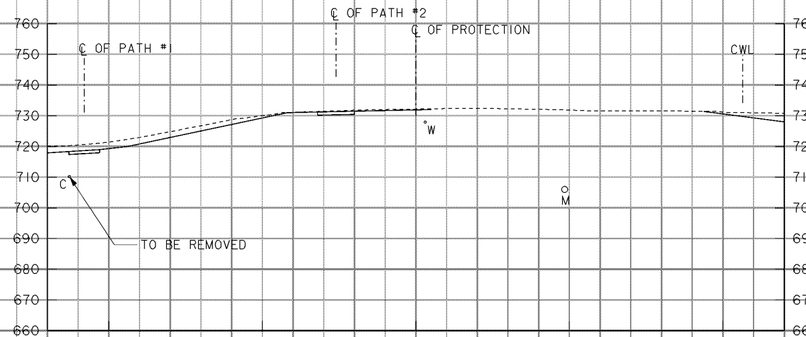
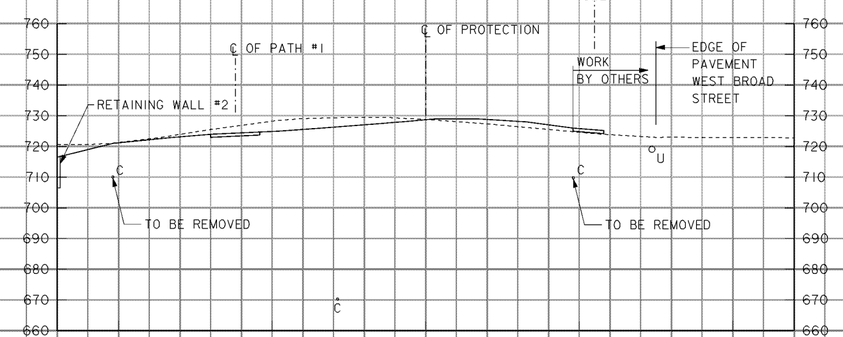
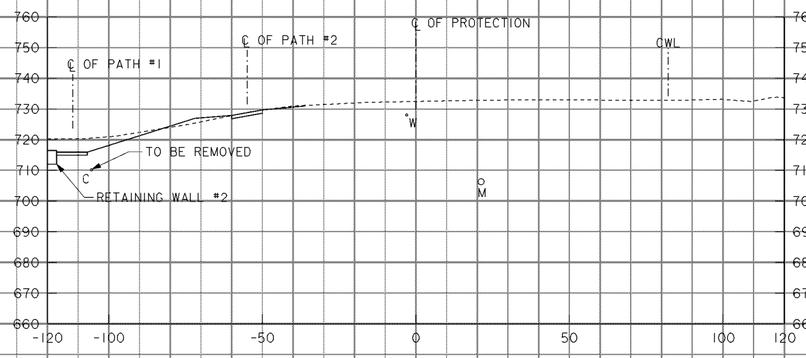
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



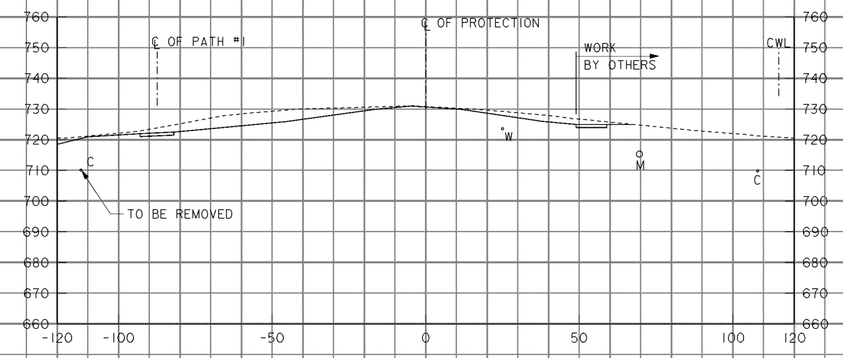
166+00



167+50



165+50



167+00

NOTES

1. FOR RECREATIONAL TRAIL SEE DRAWING NOS. 16/50, 16/51 AND 20.2/35 THRU 20.2/37.
2. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR DETAILS OF VETERANS MEMORIAL LAWN AND RETAINING WALLS SEE DRAWING NOS. 20.2/56 THRU 20.2/68.
4. FOR LIMITS OF DEMOLITION OF EXISTING RETAINING WALL SEE DRAWING NOS. 20./29 THRU 20.2/31.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

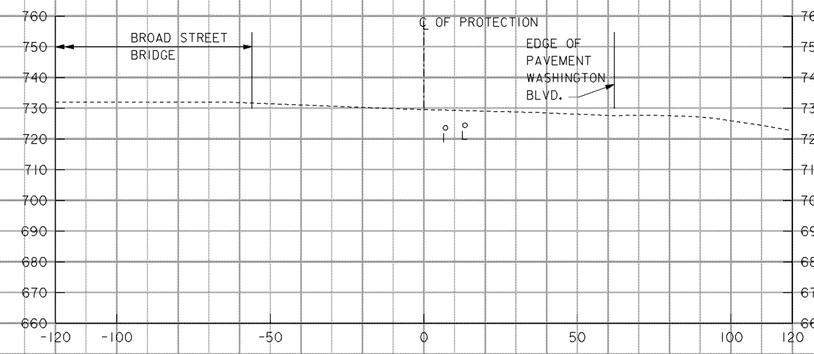
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

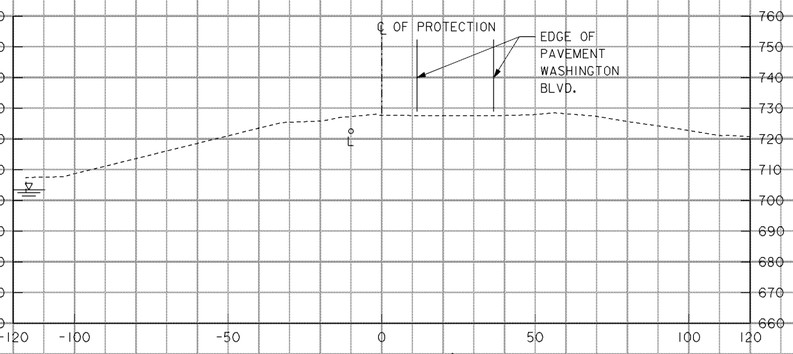
CROSS SECTIONS 165+50 TO 168+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 1620
FILENAME: 00a5xs06.dgn
PEN TABLE: b.ptb f.ptb
Sheet 6 of 22

WORK AS CONSTRUCTED



169+50



171+00 ⟨1⟩

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
J -EXISTING 12" RCP STORM SEWER
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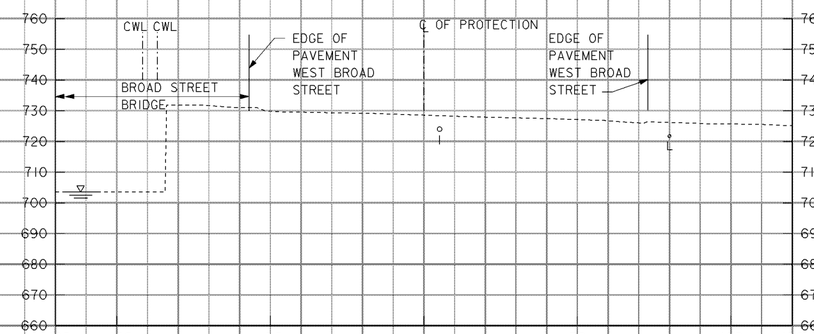
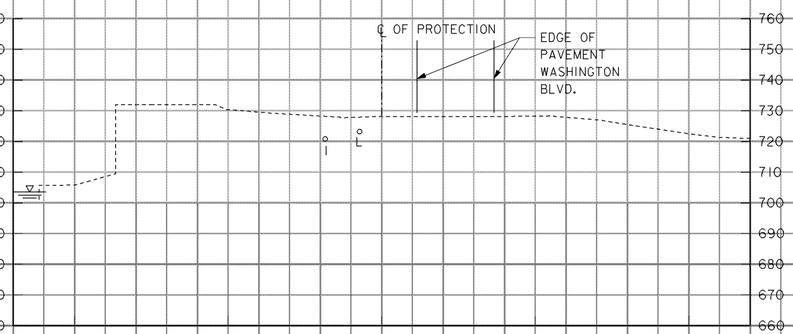
L -EXISTING 12" WATERLINE
M -EXISTING 24" RCP STORM SEWER
N -ABANDONED SANITARY SEWER
O -EXISTING 15" BRICK STORM SEWER
P -EXISTING 4" RCP STORM SEWER
Q -EXISTING 8" SANITARY SEWER
R -EXISTING 36" WATERLINE
S -EXISTING 72" RCP STORM SEWER
T -EXISTING 6" WATERLINE
U -EXISTING TELEPHONE LINE
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



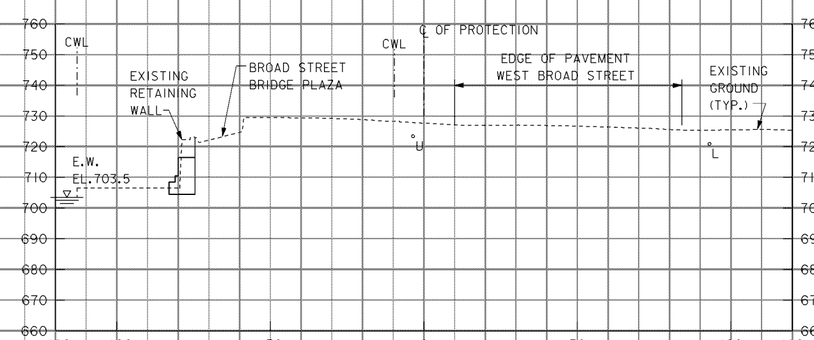
169+00



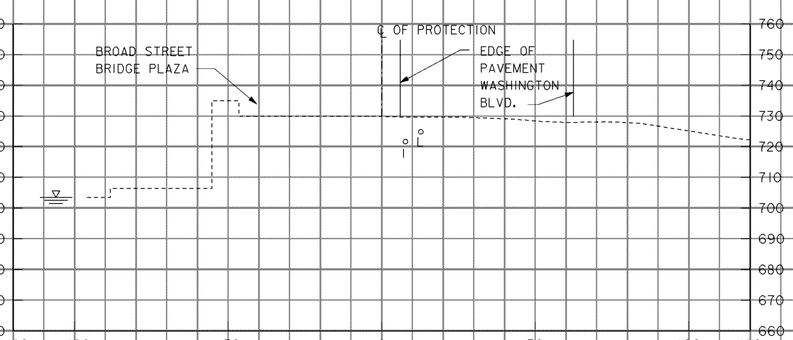
170+50 ⟨1⟩

NOTES

1. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
2. FOR DETAILS OF VETERANS MEMORIAL LAWN AND RETAINING WALL SEE DRAWING NOS. 20.2/56 THRU 20.2/68.
3. FOR LIMITS OF DEMOLITION OF EXISTING RETAINING WALL SEE DRAWING NOS. 20.2/29 THRU 20.2/31.



168+50



170+00

Revisions			
Symbol	Descriptions	Date	Approved
⟨1⟩	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

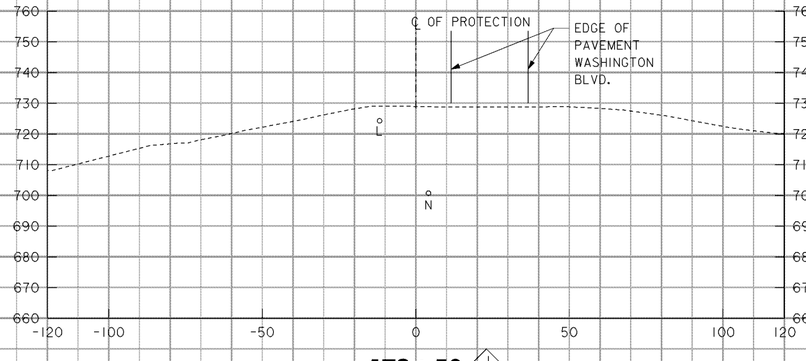
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

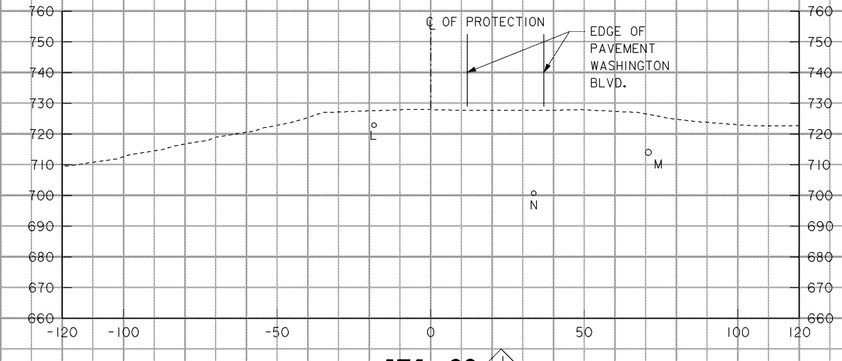
CROSS SECTIONS 168+50 TO 171+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/21
FILENAME: c0a3se07.dgn
PEN TABLE: b.ptb f.ptb
Sheet 7 of 22

WORK AS CONSTRUCTED



172+50



174+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
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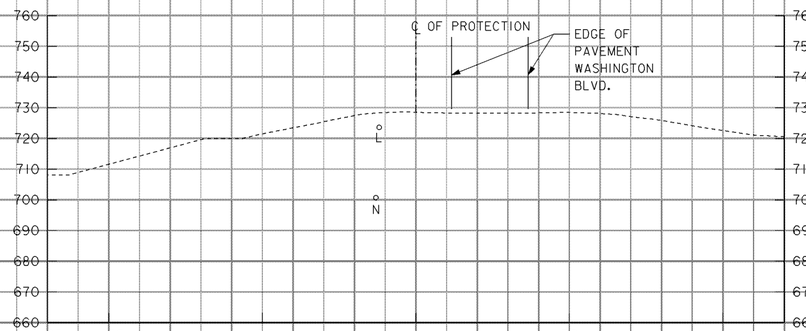
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



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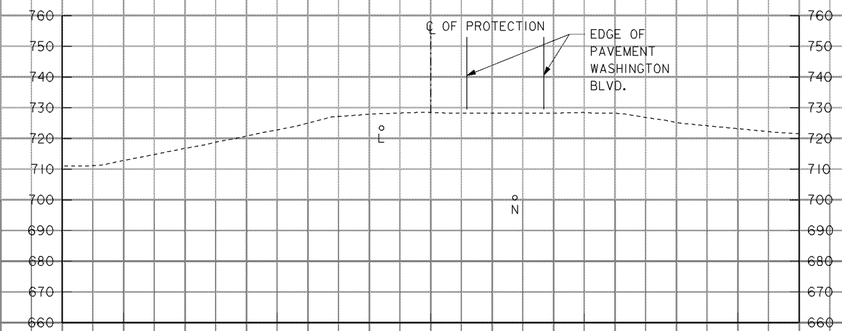

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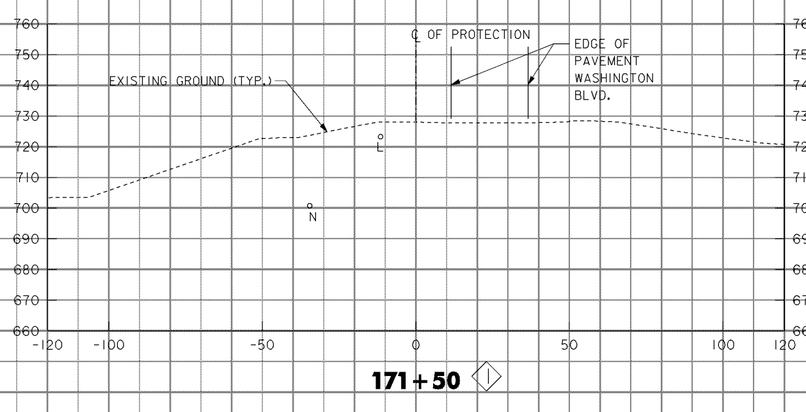

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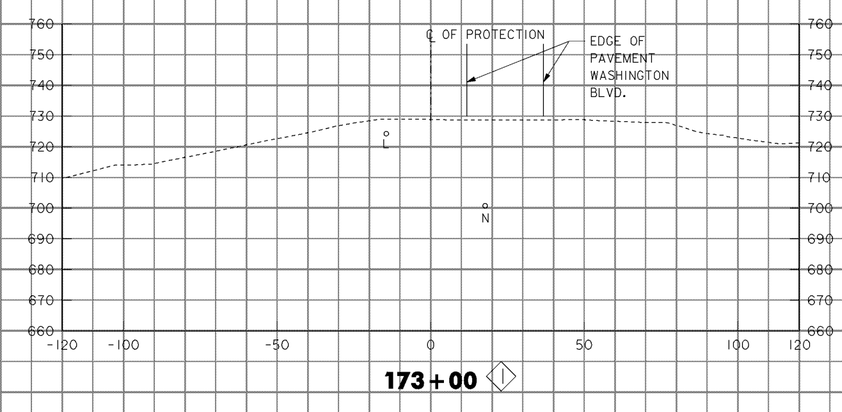


173+00

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

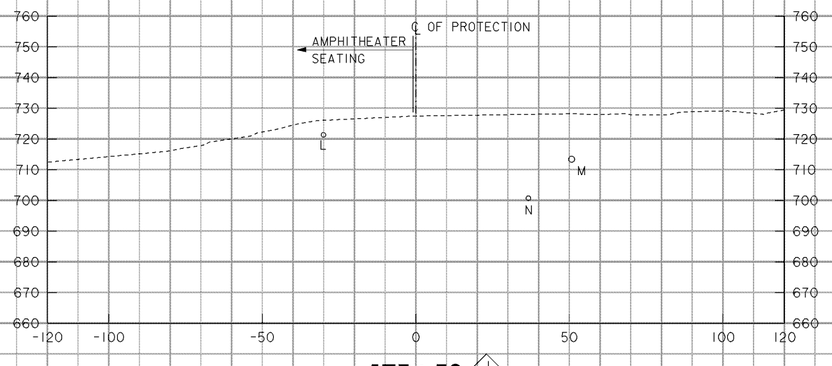
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

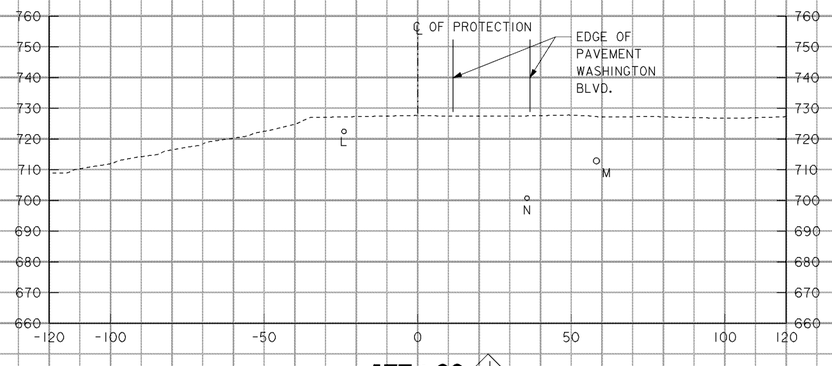
CROSS SECTIONS 171+50 TO 174+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/22
FILENAME: c0a3xs08.dgn
PEN TABLE: b.ptb f.ptb
Sheet 8 of 22

WORK AS CONSTRUCTED



175+50



177+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
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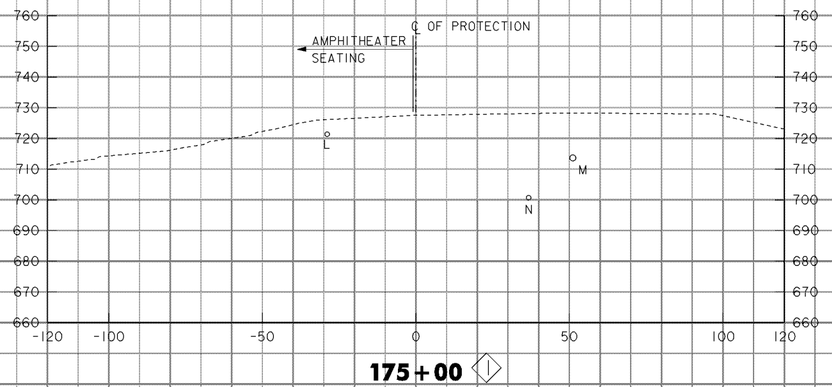
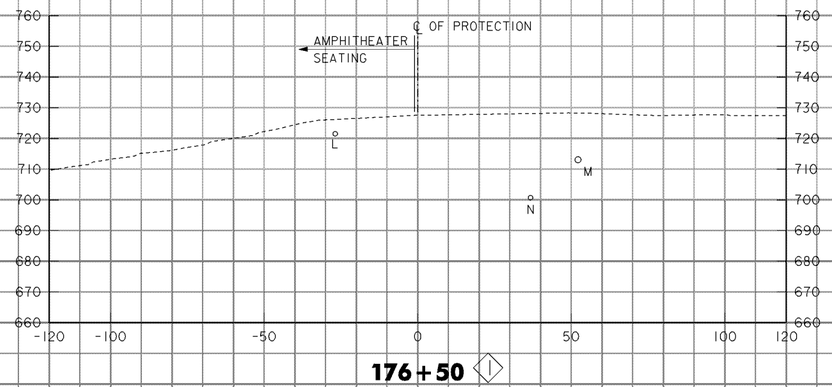
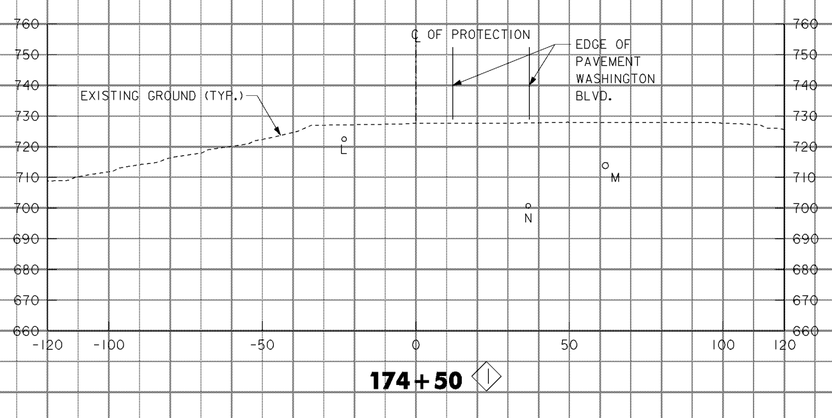
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



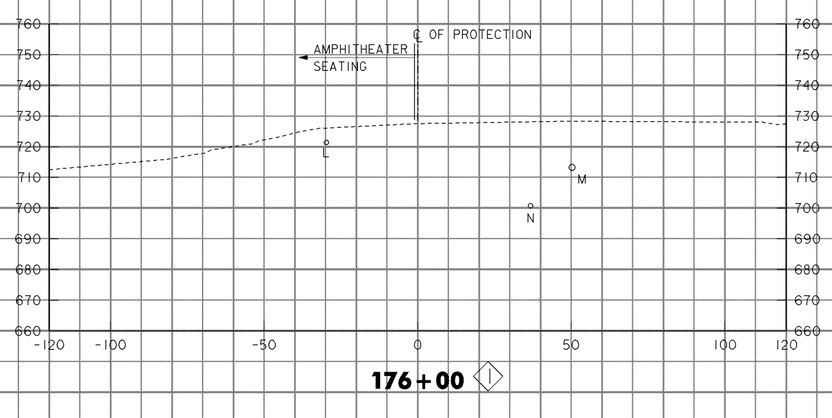
175+00



176+50



174+50



176+00

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

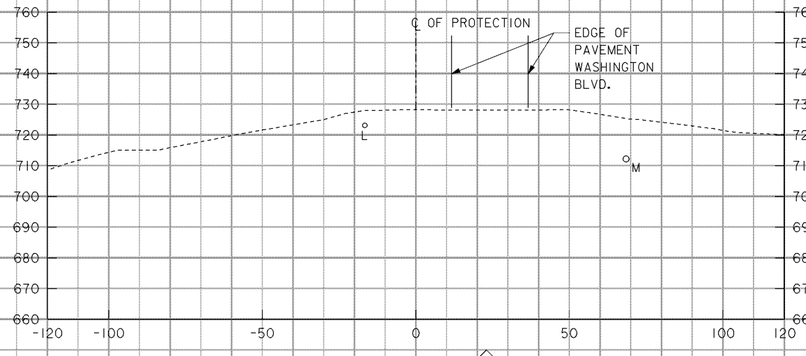
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

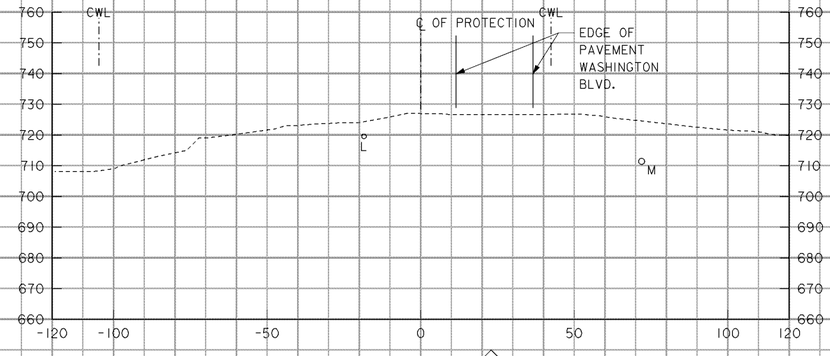
CROSS SECTIONS 174+50 TO 177+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 1623
FILENAME: a0a3ss09.dgn
PEN TABLE: b.ptb f.ptb
Sheet 9 of 22

WORK AS CONSTRUCTED



178+50



180+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
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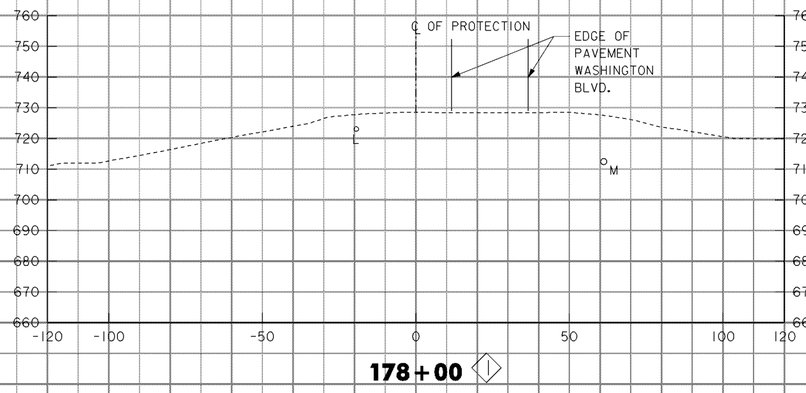
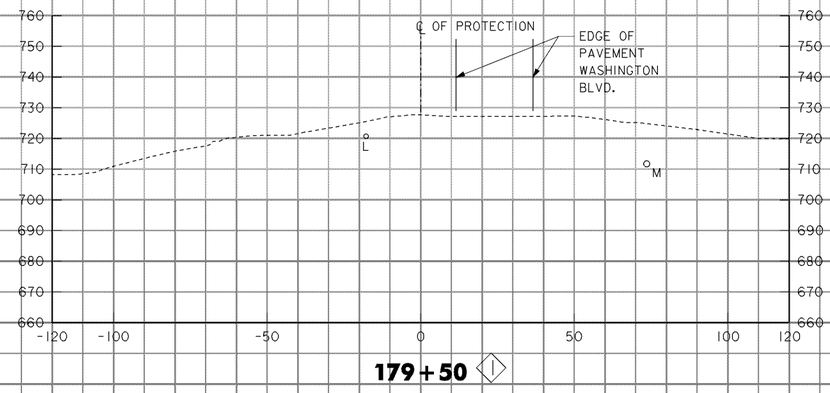
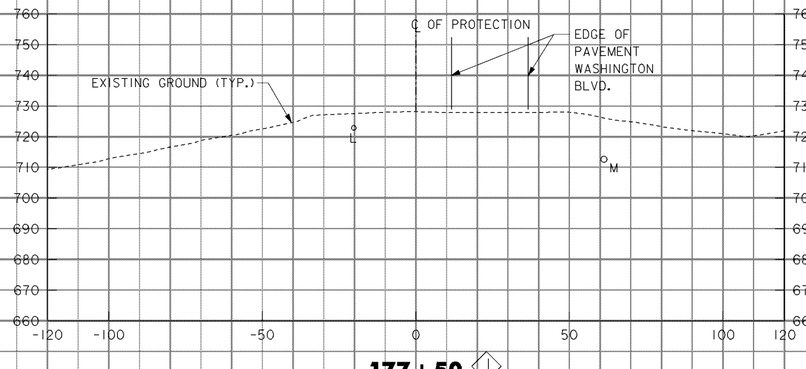
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



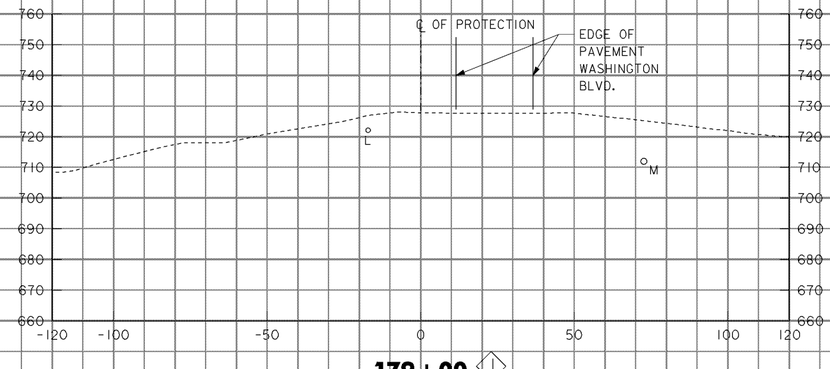
178+00



179+50



177+50



179+00

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

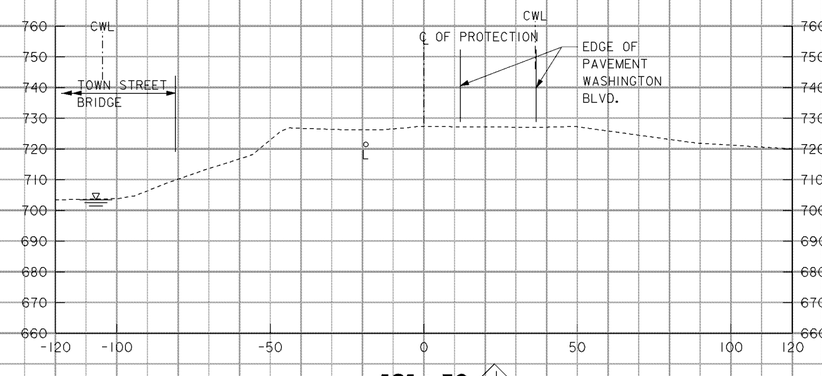
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

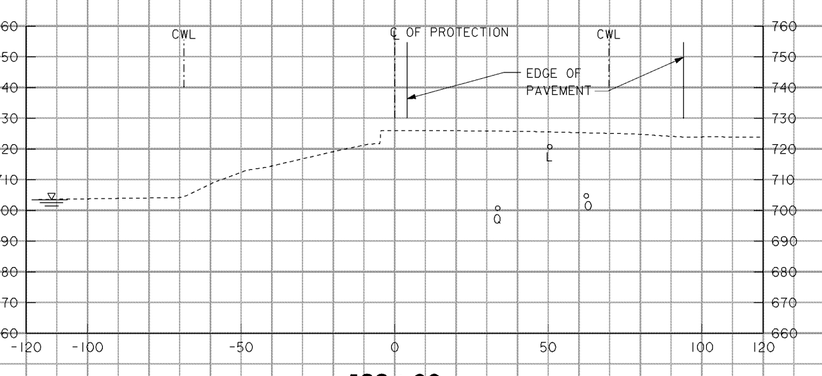
CROSS SECTIONS 177+50 TO 180+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/24
FILENAME: a0a3xz10.dgn
PEN TABLE: b.ptb f.ptb
Sheet 10 of 22

WORK AS CONSTRUCTED



181+50 1



183+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
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G -EXISTING 10" RCP STORM SEWER
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W -NEW 8" WATERLINE
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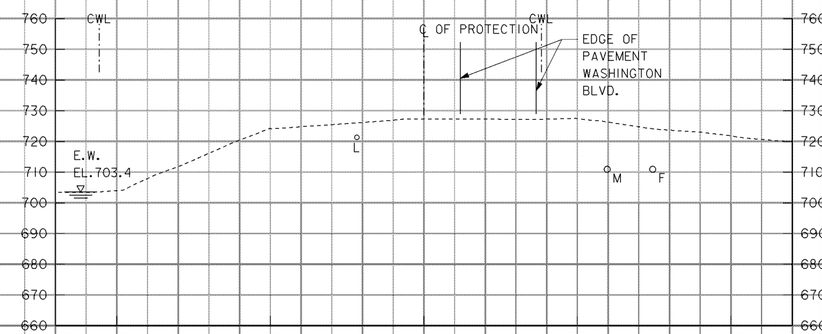
Z -NEW 10" AND 36" SANITARY FORCE MAIN



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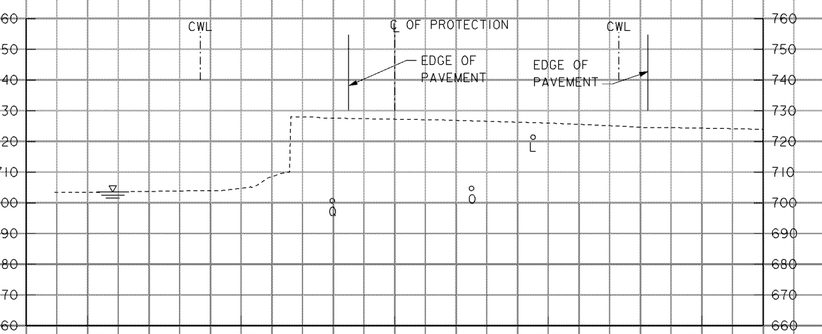

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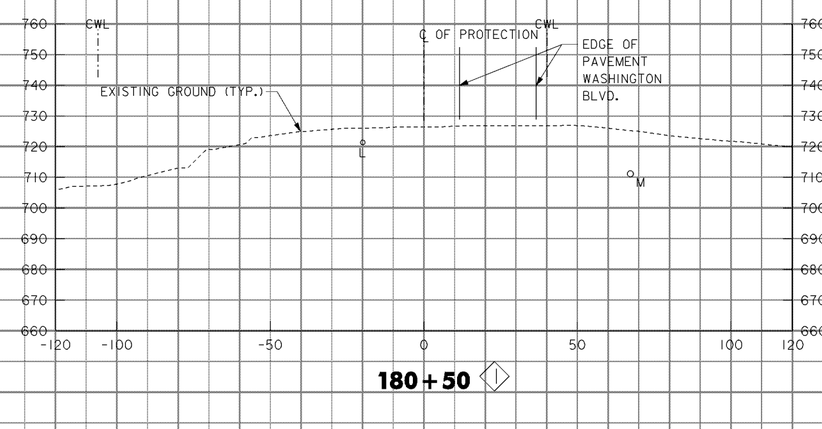
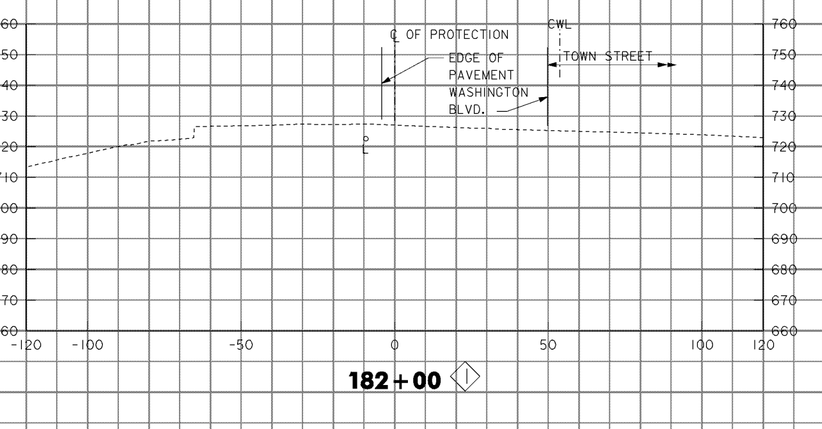


180+50 1



182+00 1

NOTES

1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/2.
2. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR TOWN STREET WALKWAY ACCESS SEE DRAWING NO. 20.2/5.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

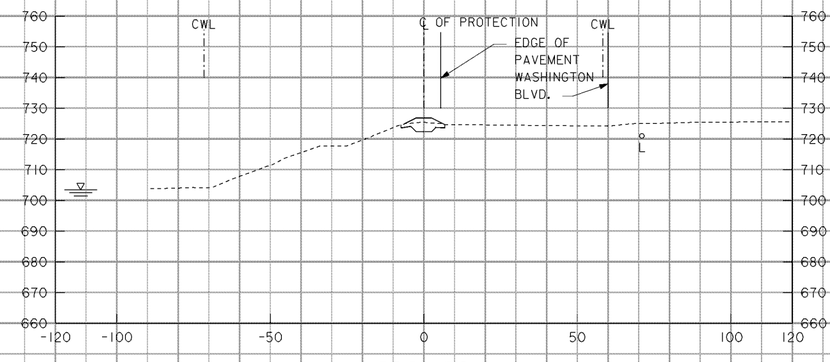
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

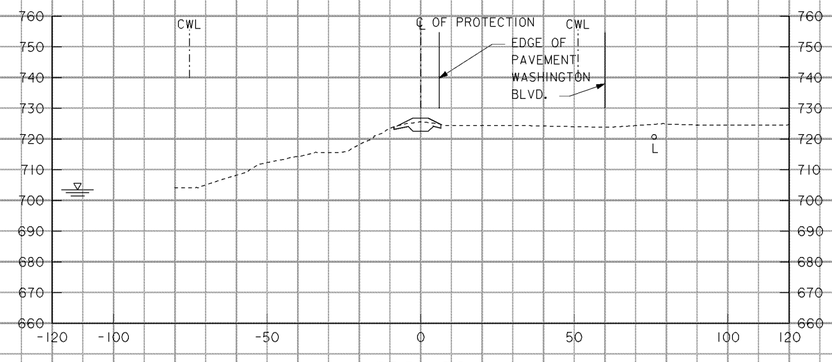
CROSS SECTIONS 180+50 TO 183+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/25
FILENAME: a0a3xx11.dgn
PEN TABLE: b.ptb f.ptb
Sheet 11 of 22

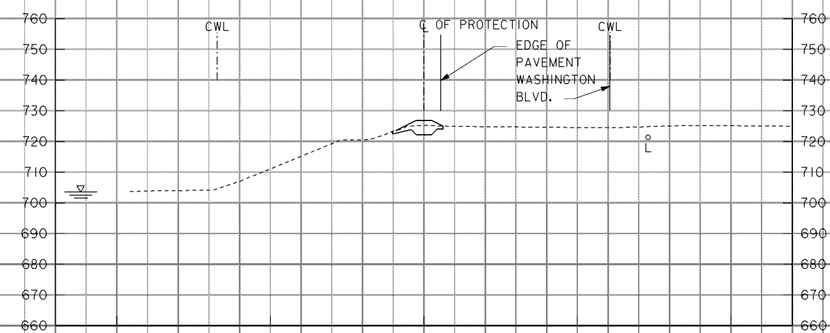
WORK AS CONSTRUCTED



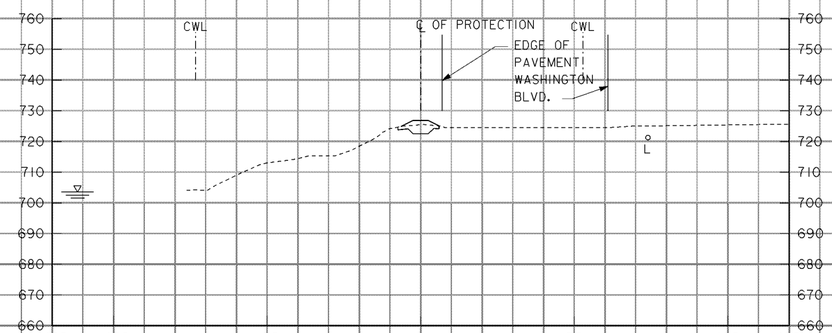
184+50



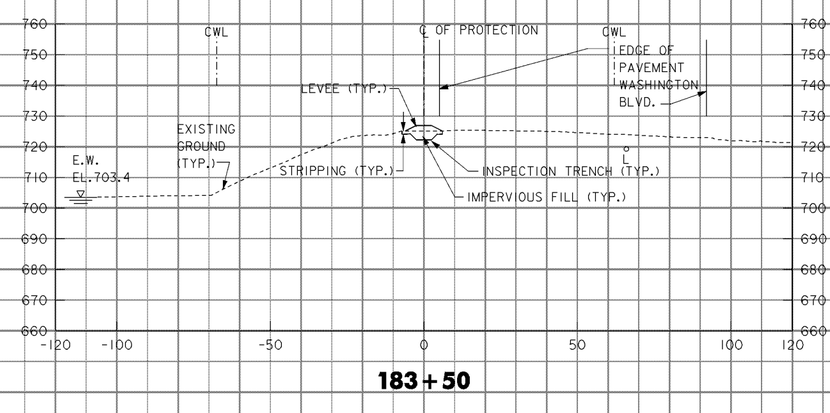
186+00



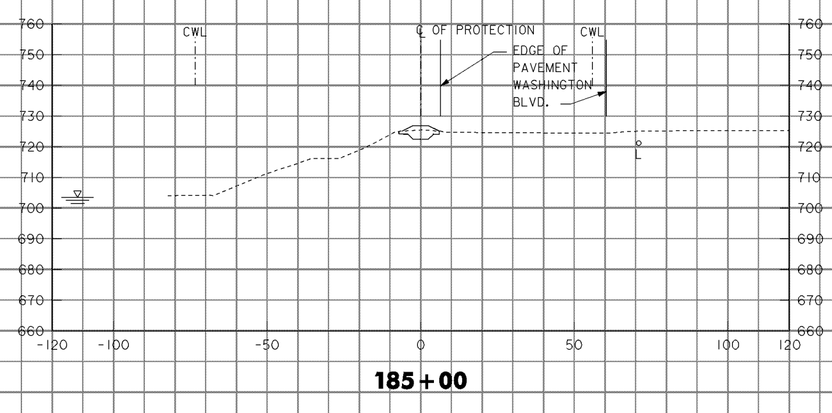
184+00



185+50



183+50



185+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
J -EXISTING 12" RCP STORM SEWER
K -NEW 12" RCP STORM SEWER
L -EXISTING 12" WATERLINE
M -EXISTING 24" RCP STORM SEWER
N -ABANDONED SANITARY SEWER
O -EXISTING 15" BRICK STORM SEWER
P -EXISTING 4" RCP STORM SEWER
Q -EXISTING 8" SANITARY SEWER
R -EXISTING 36" WATERLINE
S -EXISTING 72" RCP STORM SEWER
T -EXISTING 6" WATERLINE
U -EXISTING TELEPHONE LINE
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN

NOTES

1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/2.
2. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

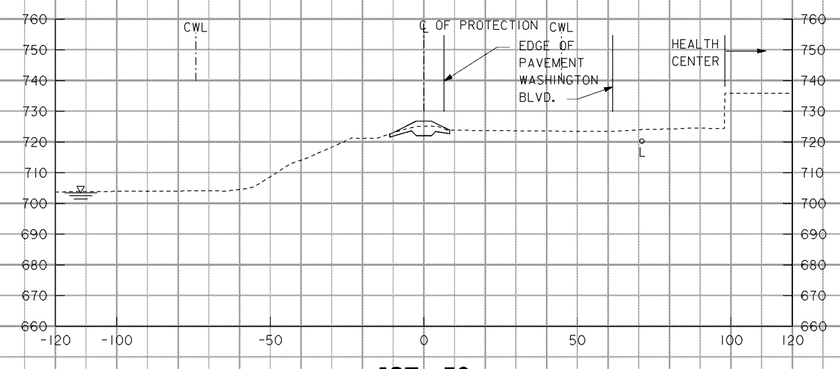
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

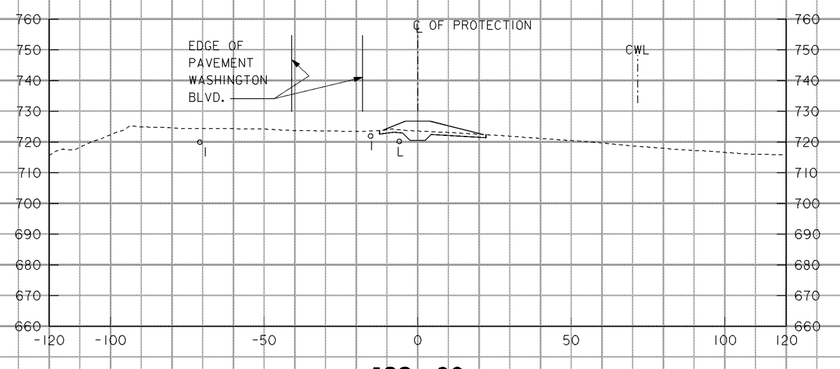
CROSS SECTIONS 183+50 TO 186+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/26
FILENAME: 00s5x12.dgn
PEN TABLE: b.ptb f.ptb
Sheet 12 of 22

WORK AS CONSTRUCTED



187+50



189+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
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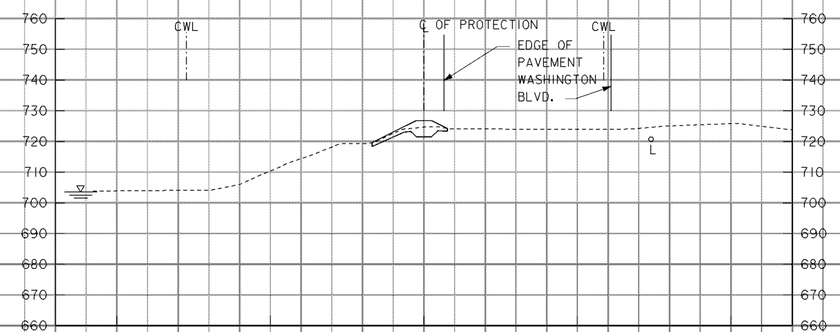
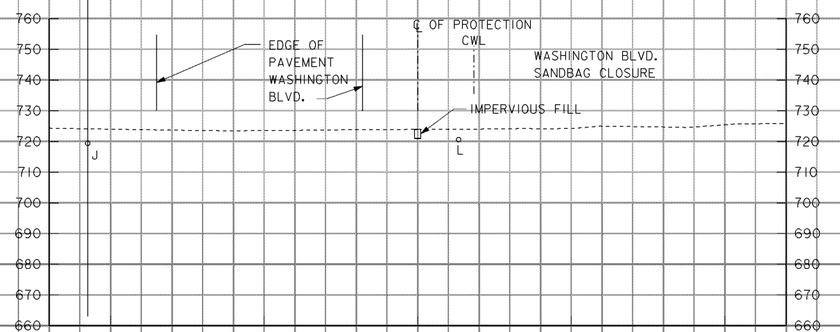
R -EXISTING 36" WATERLINE
S -EXISTING 72" RCP STORM SEWER
T -EXISTING 6" WATERLINE
U -EXISTING TELEPHONE LINE
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



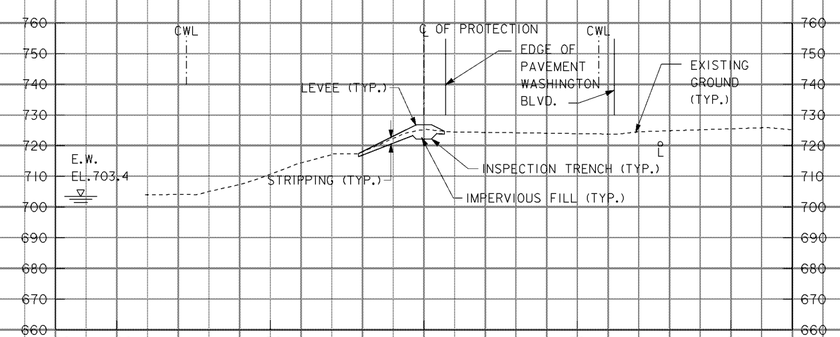
187+00



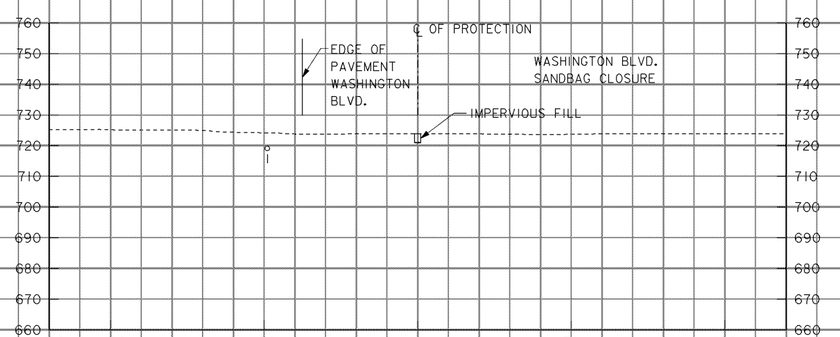
188+50

NOTES

1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/2.
2. FOR WASHINGTON BLVD. SANDBAG CLOSURE SEE DRAWING NO. 20.2/6.
3. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
4. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.



186+50



188+00

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

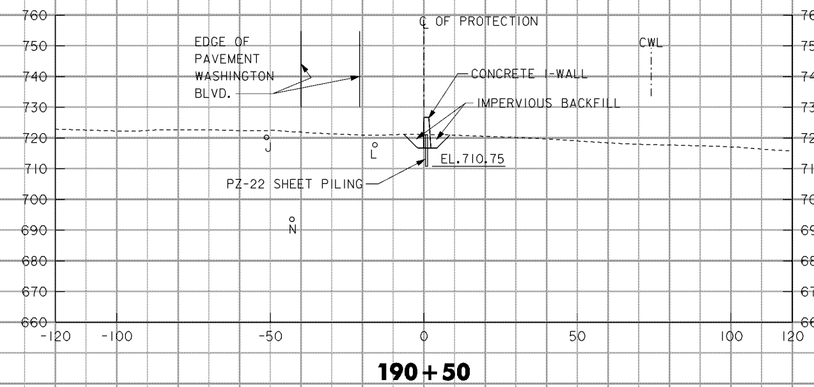
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

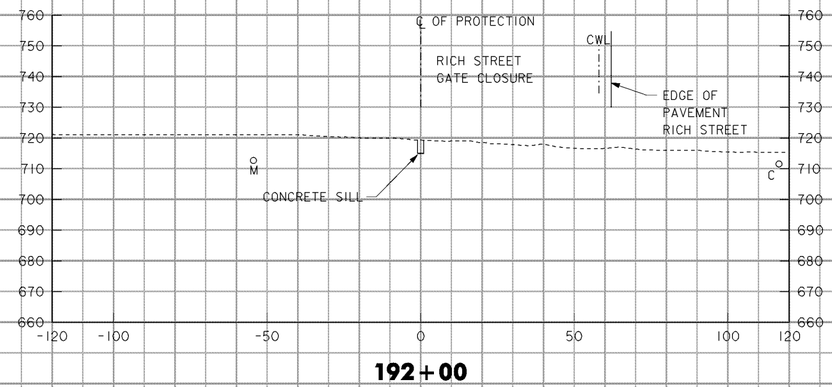
CROSS SECTIONS 186+50 TO 189+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/27
FILENAME: 00s5x13.dgn
PEN TABLE: b.ptb f.ptb
Sheet 13 of 22

WORK AS CONSTRUCTED



190+50



192+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
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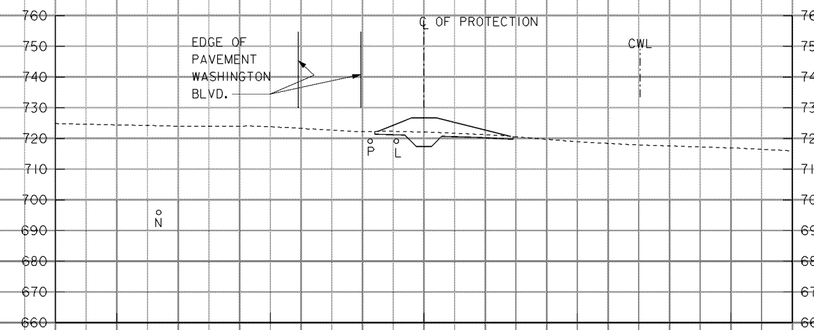
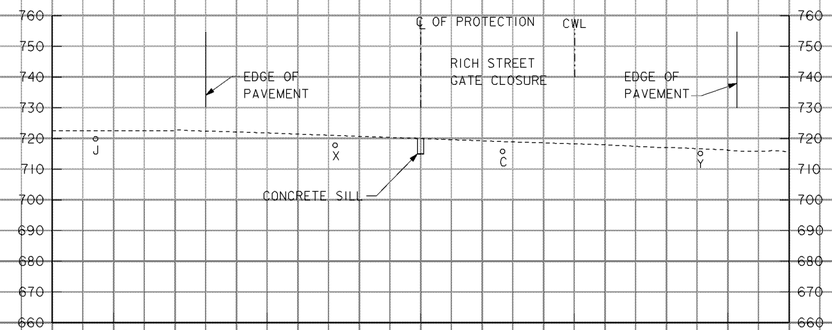
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



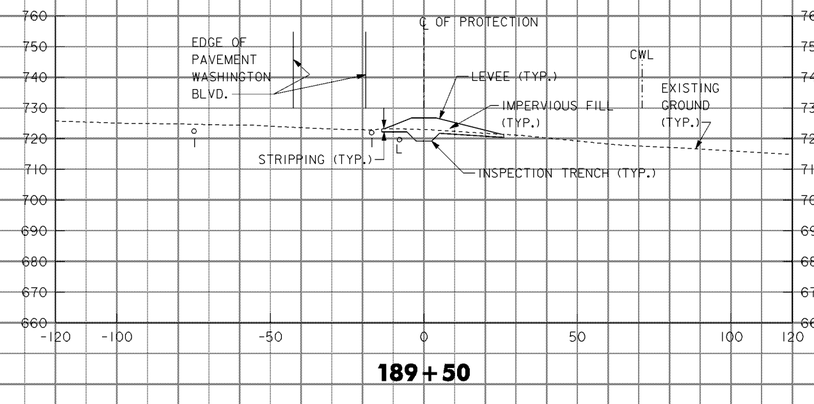
190+00



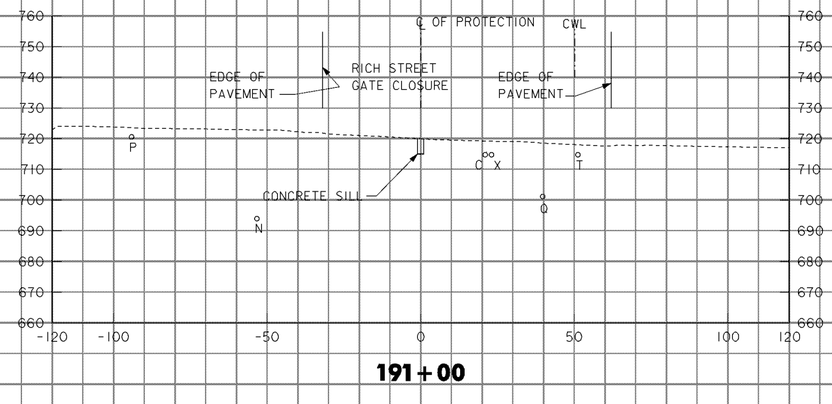
191+50

NOTES

1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/2.
2. FOR CONCRETE I-WALL DETAILS SEE DRAWING NOS. 20.1/1 AND 20.1/2.
3. FOR CONCRETE I-WALL TYPICAL SECTIONS SEE DRAWING NO. 20.3/2.
4. FOR RICH STREET GATE CLOSURE SEE DRAWING NO. 20.2/7.
5. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
6. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.



189+50



191+00

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

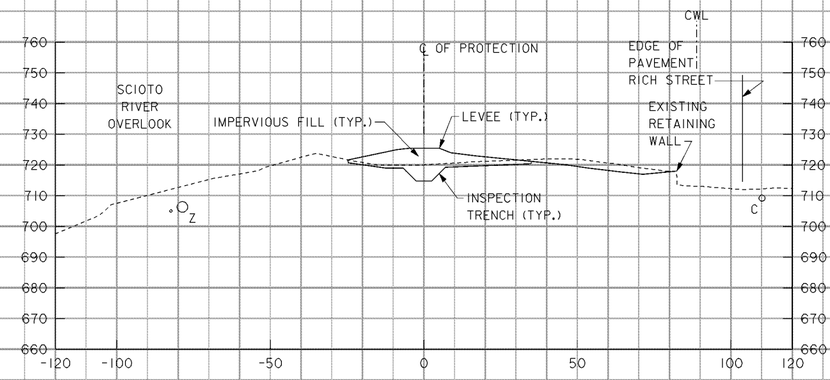
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

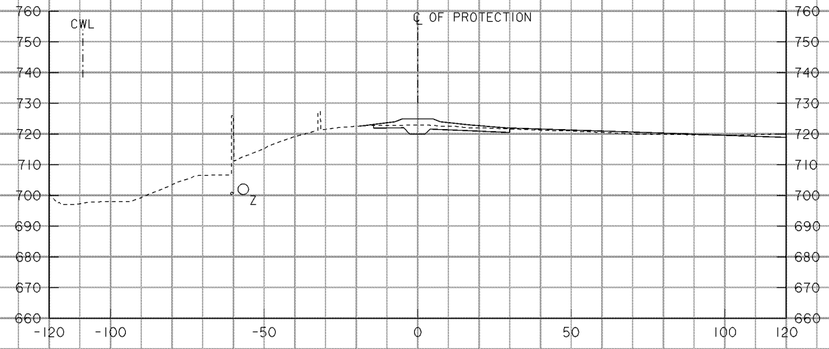
CROSS SECTIONS 189+50 TO 192+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/28
FILENAME: 00a0xx14.dgn
PEN TABLE: b.pltb f.pltb
Sheet 14 of 22

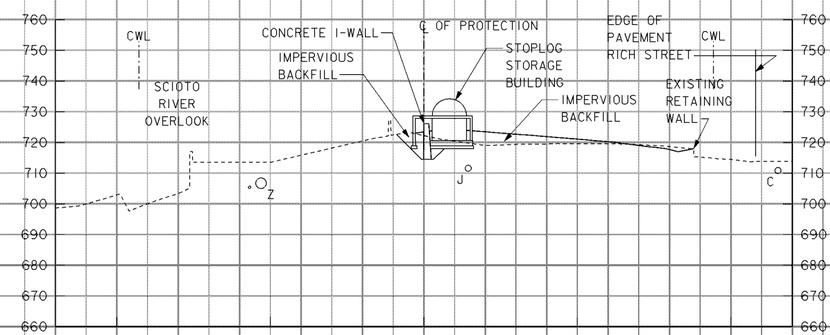
WORK AS CONSTRUCTED



193+50



195+00



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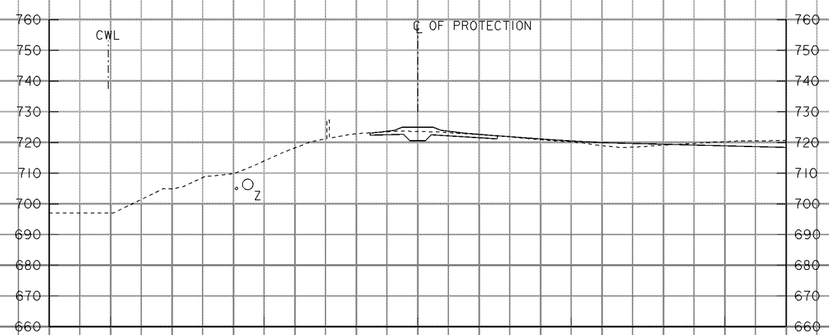

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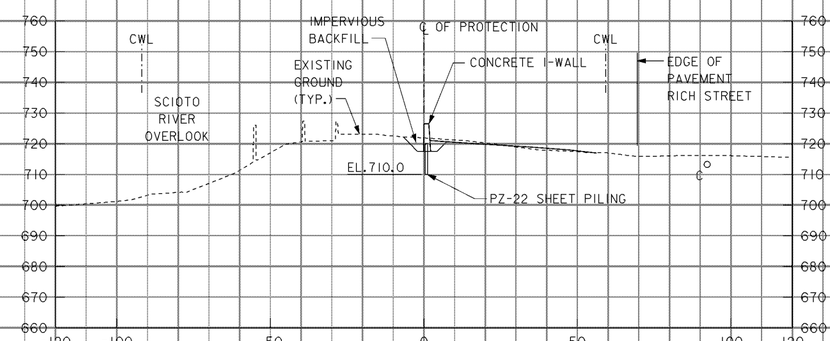

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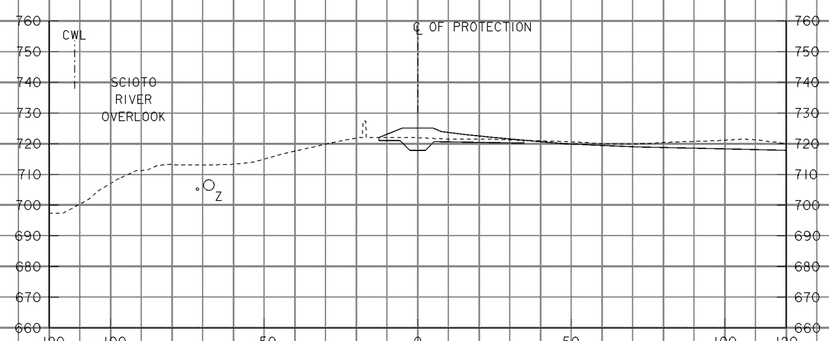

194+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
J -EXISTING 12" RCP STORM SEWER
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L -EXISTING 12" WATERLINE
M -EXISTING 24" RCP STORM SEWER
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W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN

NOTES

1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/2.
2. FOR CONCRETE I-WALL TYPICAL SECTIONS SEE DRAWING NO. 20.3/2.
3. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
4. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.
5. FOR STOP LOG STORAGE BUILDING SEE DRAWING NO. 20.2/16.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

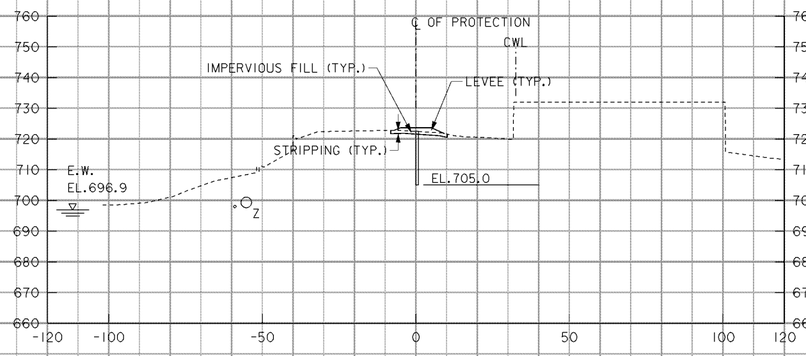
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CROSS SECTIONS 192+50 TO 195+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 1629
FILENAME: 00a5xx15.dgn
PEN TABLE: b.ptb f.ptb
Sheet 15 of 22

WORK AS CONSTRUCTED



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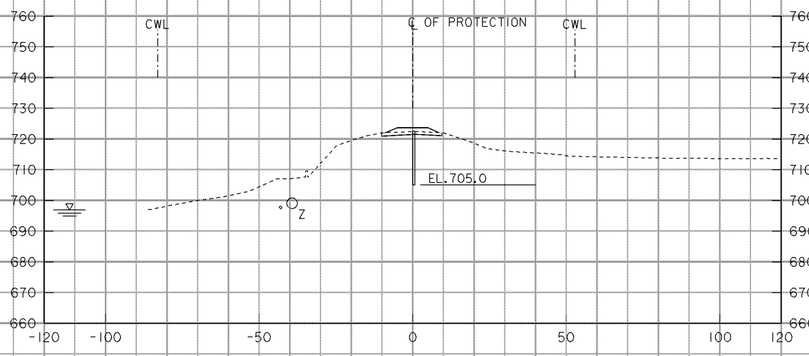

198+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
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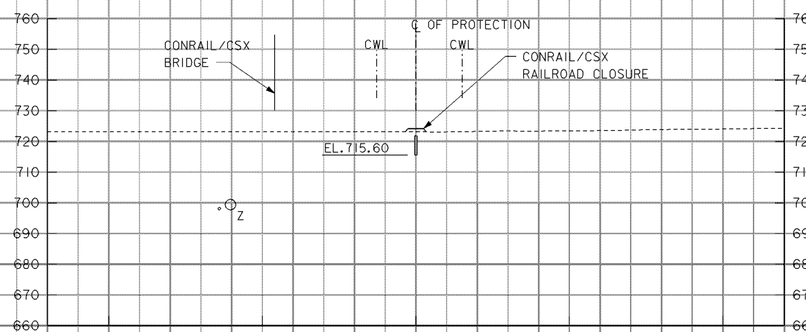
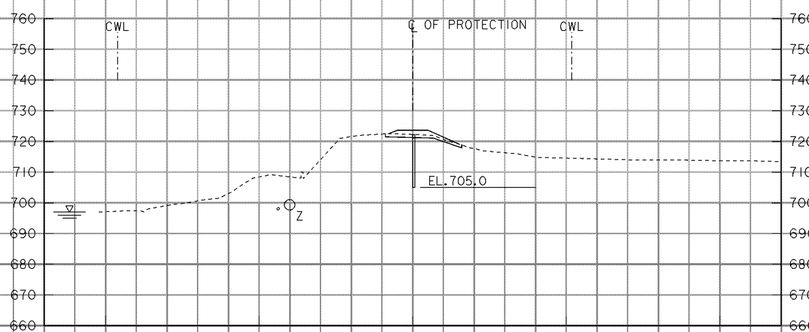
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



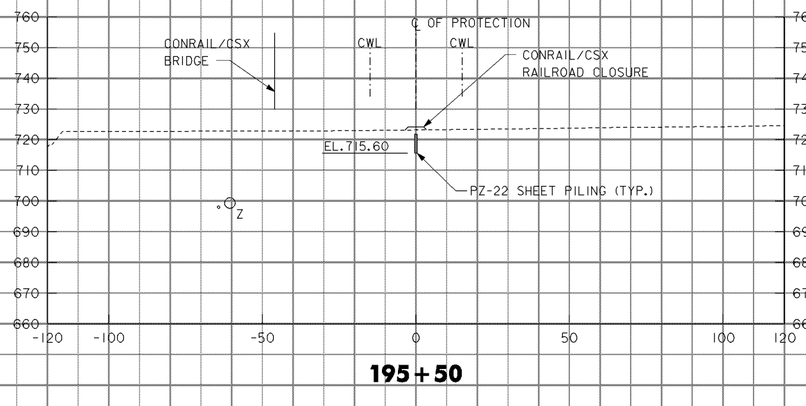
196+00



197+50

NOTES

1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/2.
2. FOR CONRAIL/CSX RAILROAD CLOSURE SEE DRAWING NO. 20.2/18.
3. FOR CONRAIL/CSX SHEETPILE CUTOFF SEE DRAWING NO. 20.2/20.
4. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
5. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.



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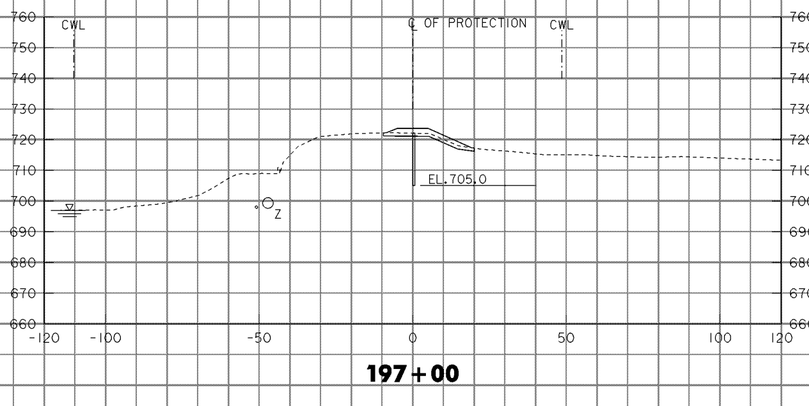


197+00

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

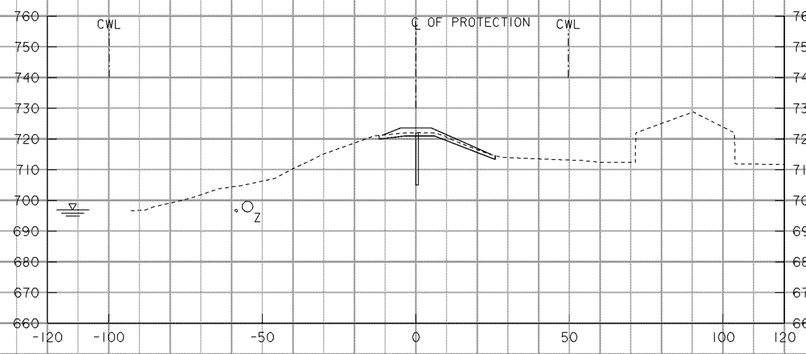
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

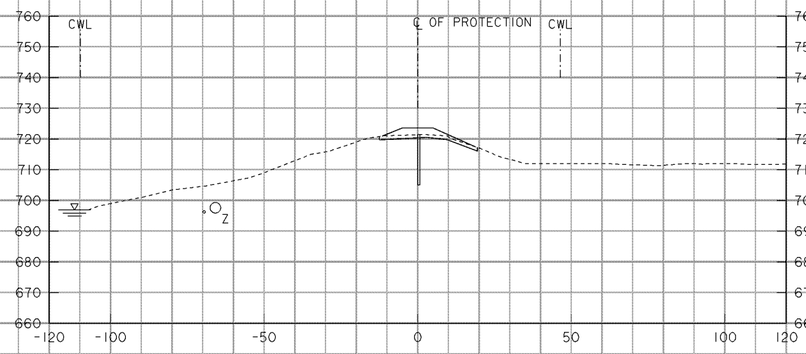
CROSS SECTIONS 195+50 TO 198+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 1630
FILENAME: 00o5xs16.dgn
PEN TABLE: b.ptb f.ptb
Sheet 16 of 22

WORK AS CONSTRUCTED



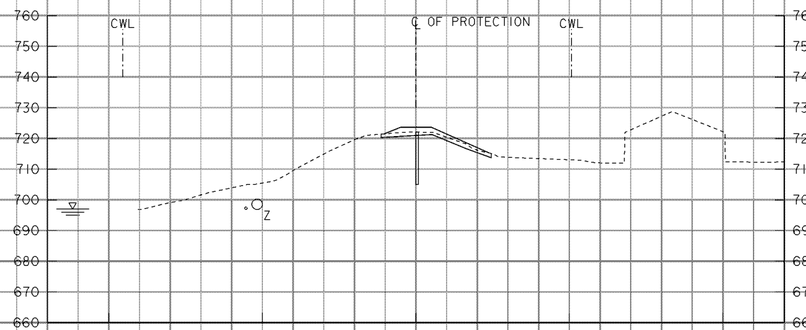
199+50



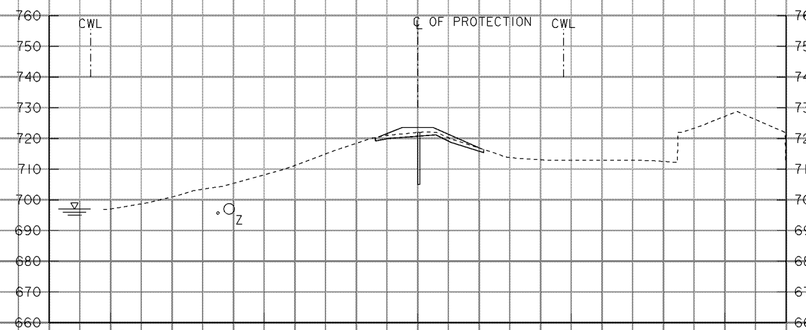
201+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
J -EXISTING 12" RCP STORM SEWER
K -NEW 12" RCP STORM SEWER
L -EXISTING 12" WATERLINE
M -EXISTING 24" RCP STORM SEWER
N -ABANDONED SANITARY SEWER
O -EXISTING 15" BRICK STORM SEWER
P -EXISTING 4" RCP STORM SEWER
Q -EXISTING 8" SANITARY SEWER
R -EXISTING 36" WATERLINE
S -EXISTING 72" RCP STORM SEWER
T -EXISTING 6" WATERLINE
U -EXISTING TELEPHONE LINE
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



199+00



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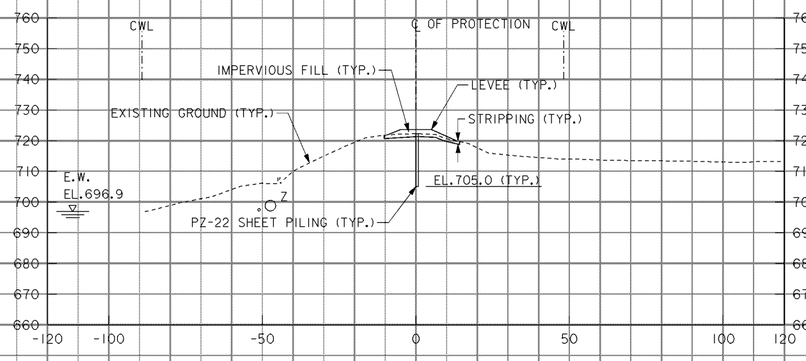
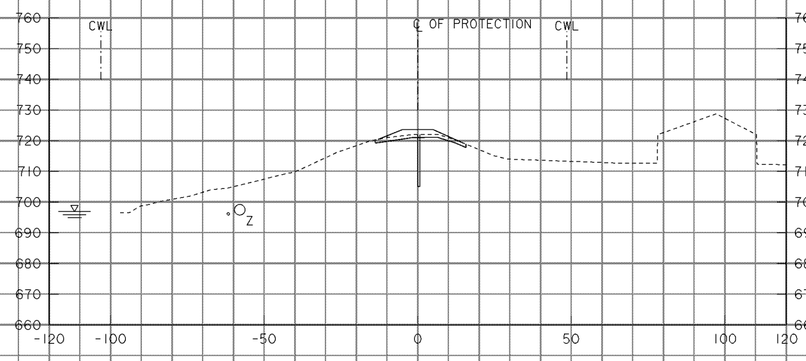


198+50



200+00

NOTES

1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/2.
2. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
3. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

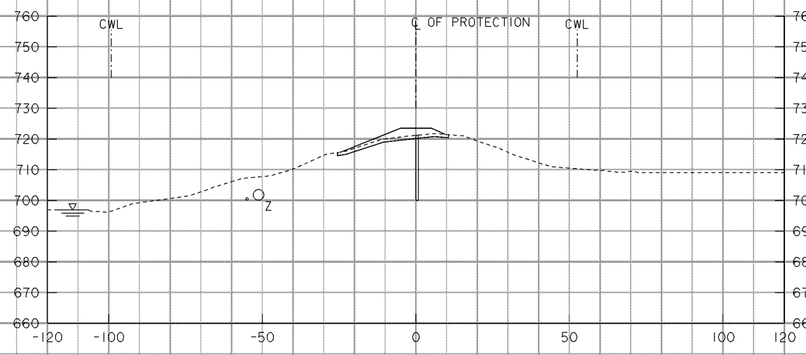
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

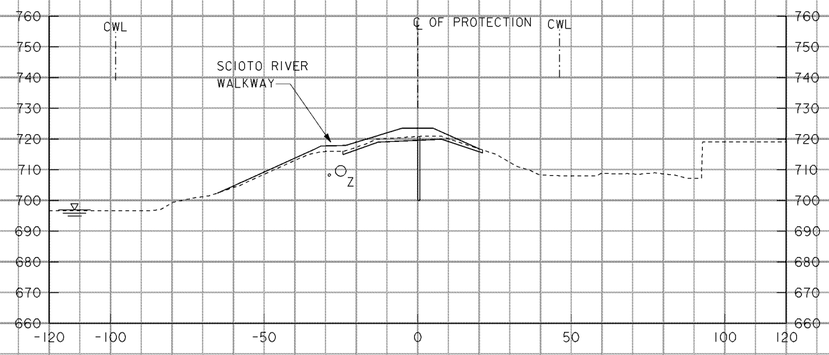
CROSS SECTIONS 198+50 TO 201+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/31
FILENAME: 00a5xa17.dgn
PEN TABLE: b.prtb f.prtb
Sheet 17 of 22

WORK AS CONSTRUCTED



202+50



204+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
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S -EXISTING 72" RCP STORM SEWER
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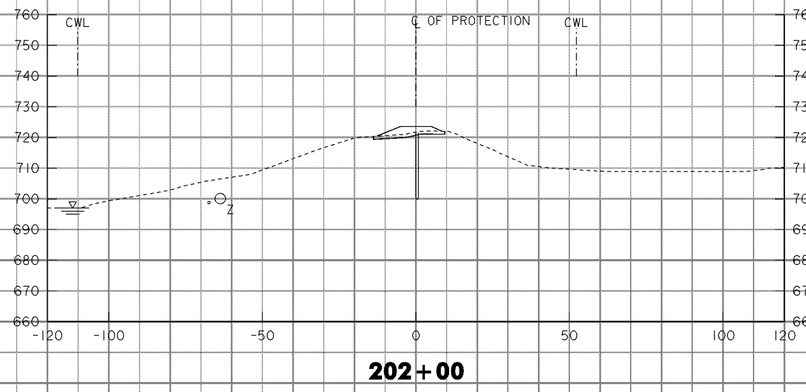
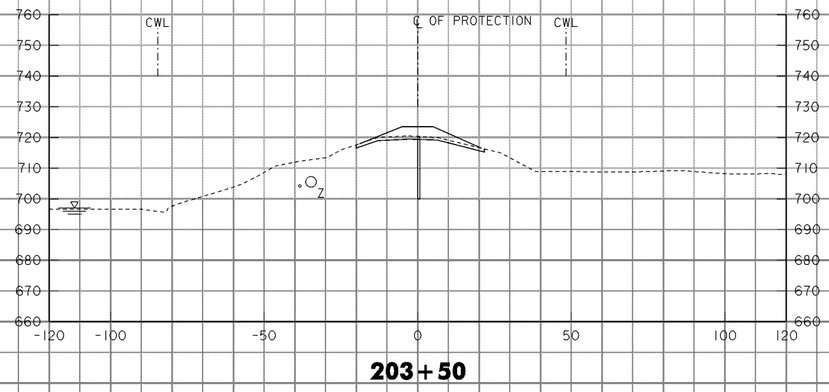
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



202+00



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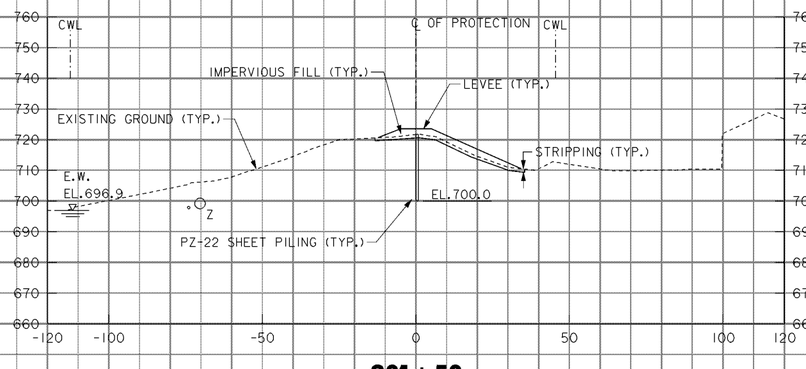

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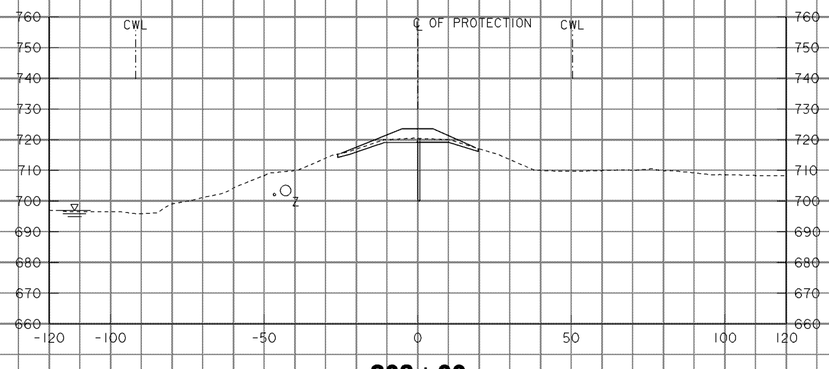


203+00

NOTES

1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/2.
2. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR SCIOTO RIVER WALKWAY SEE DRAWING NOS. 20.5/2 THRU 20.5/4.
4. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

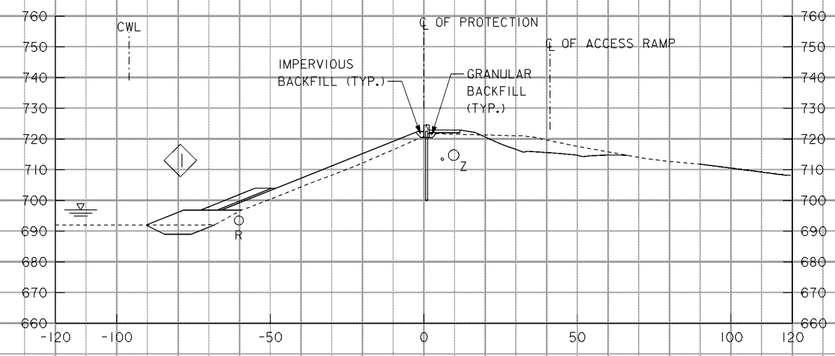
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

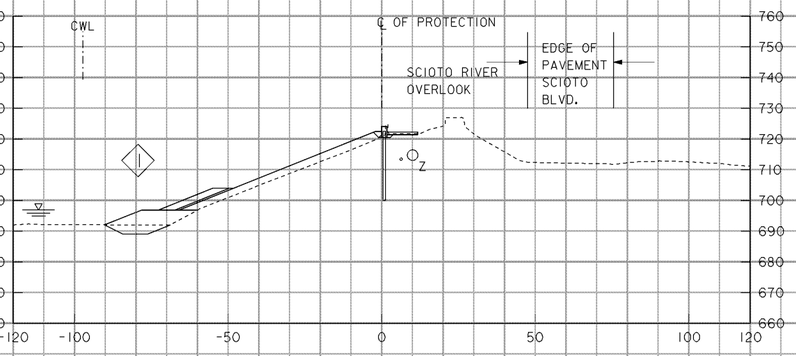
CROSS SECTIONS 201+50 TO 204+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/32
FILENAME: 00a3x18.dgn
PEN TABLE: b.ptb f.ptb
Sheet 18 of 22

WORK AS CONSTRUCTED



205+50



207+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
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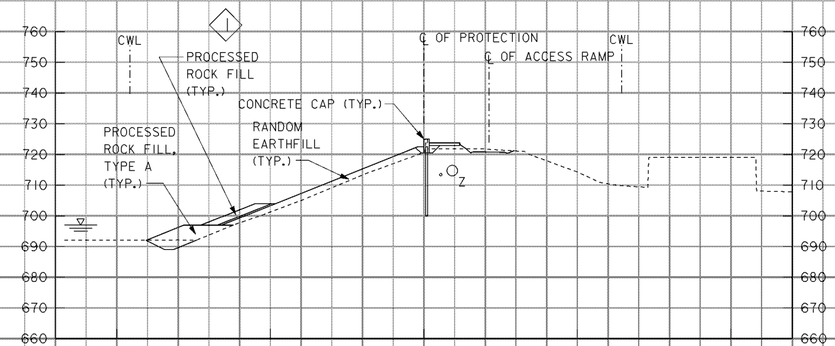
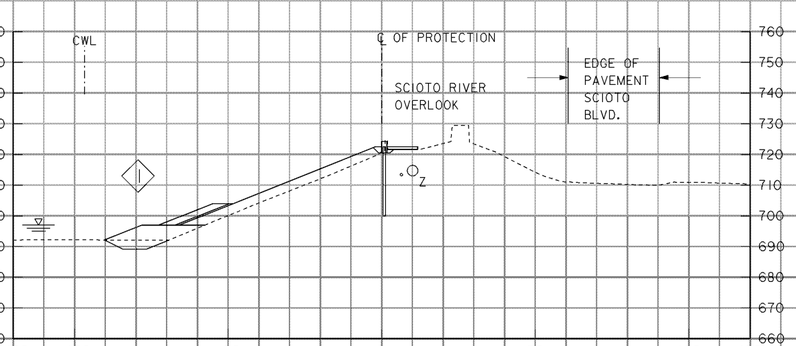
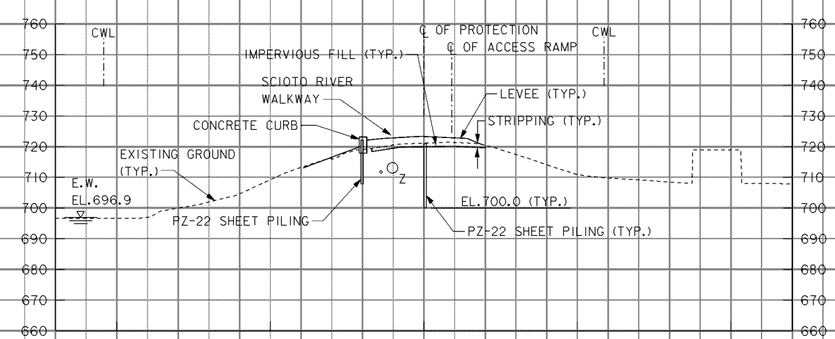
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



205+00



206+50



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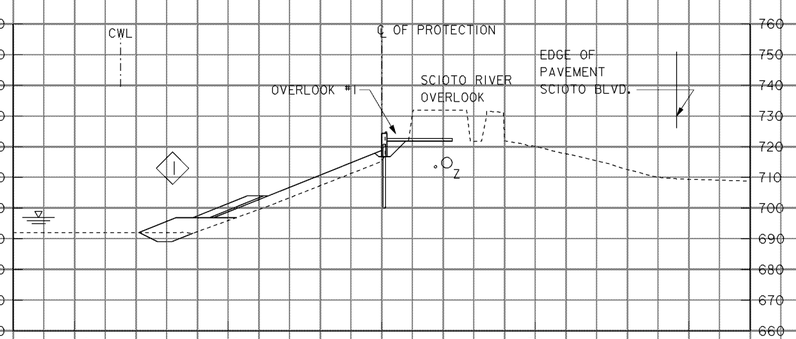


206+00

NOTES

1. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/2.
2. FOR CONCRETE CAP SEE DRAWING NO. 20.3/2.
3. FOR ACCESS RAMP SEE DRAWING NO. 20.2/21.
4. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
5. FOR DODGE PARK RIVERBANK TREATMENT TYPICAL SECTION SEE DRAWING NO.20.2/25.
6. FOR SCIOTO RIVER WALKWAY SEE DRAWING NOS. 20.5/2 THRU 20.5/4.
7. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.

Revisions			
Symbol	Descriptions	Date	Approved
1	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

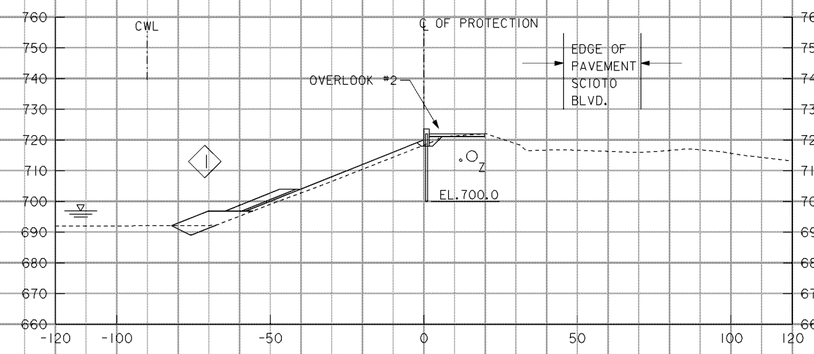
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

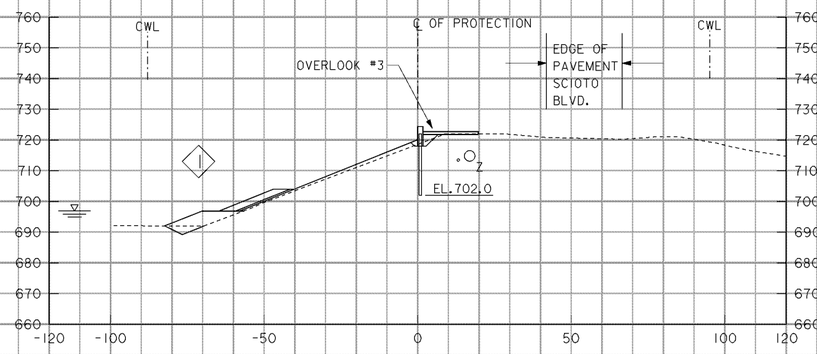
CROSS SECTIONS 204+50 TO 207+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/33
FILENAME: 00a5xx19.dgn
PEN TABLE:
Sheet 19 of 22

WORK AS CONSTRUCTED



208+50



210+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
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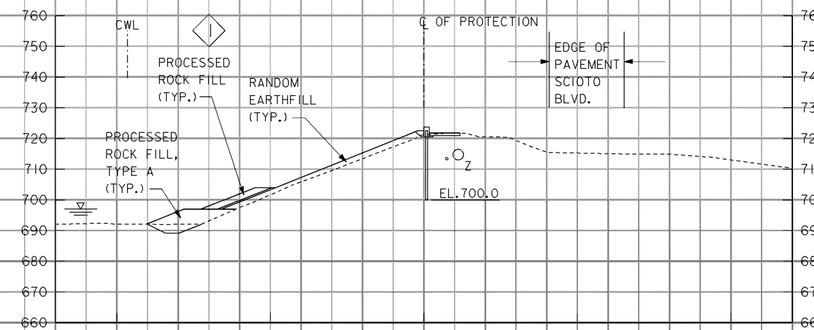
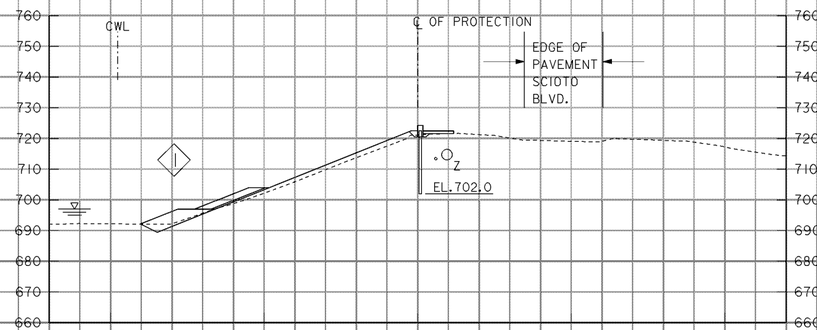
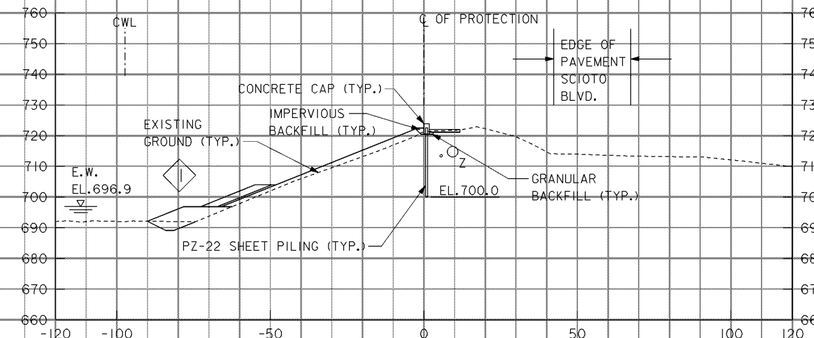
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



208+00



209+50



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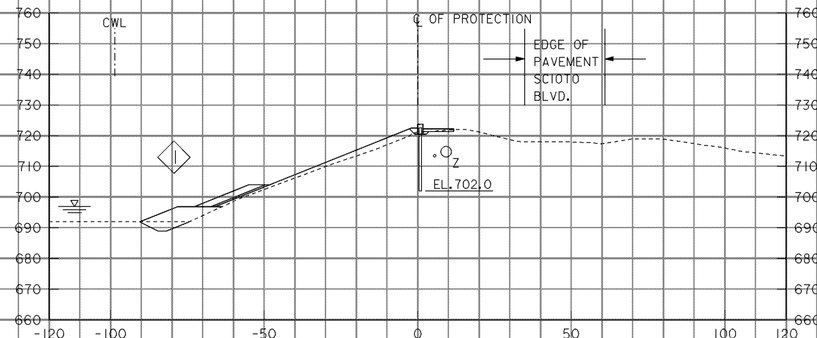


209+00

NOTES

1. FOR CONCRETE CAP SEE DRAWING NO. 20.3/2.
2. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR DODGE PARK RIVERBANK TREATMENT TYPICAL SECTION SEE DRAWING NO.20.2/25.
4. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.

Revisions			
Symbol	Descriptions	Date	Approved
1	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

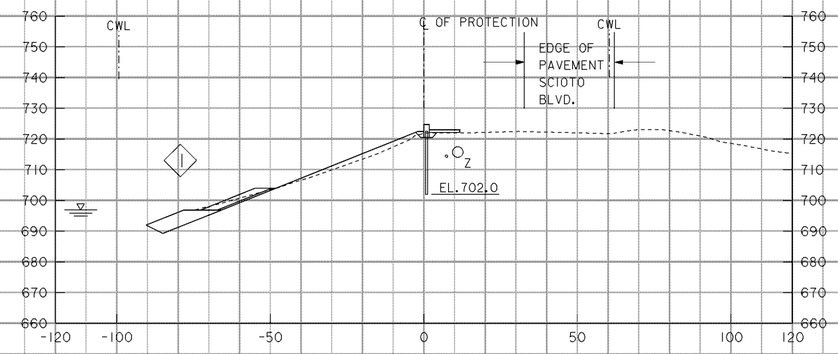
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

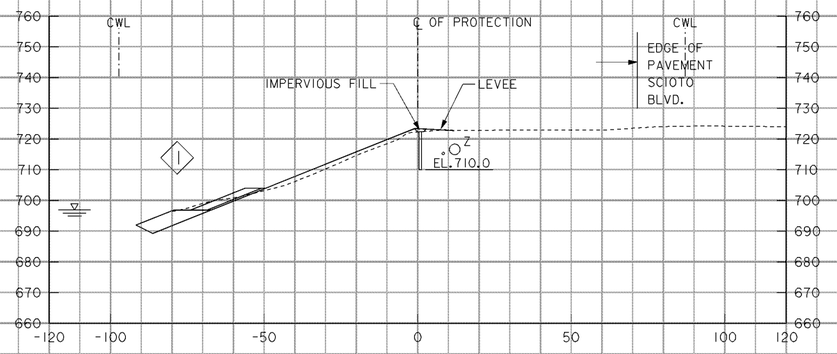
CROSS SECTIONS
207+50 TO 210+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/34
FILENAME: 00a5xx20.dgn
PRN TABLE:
Sheet 20 of 22

WORK AS CONSTRUCTED



211+50



213+00

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
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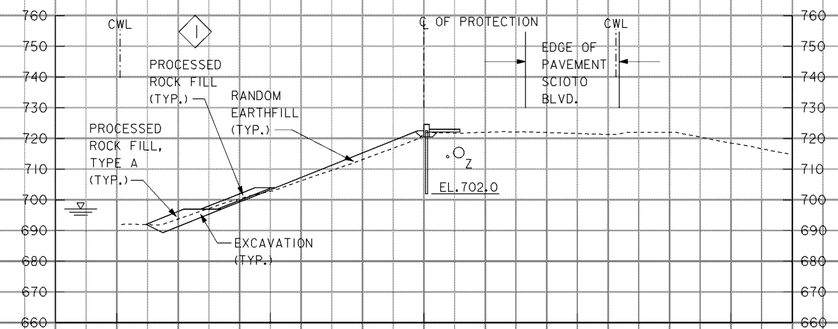
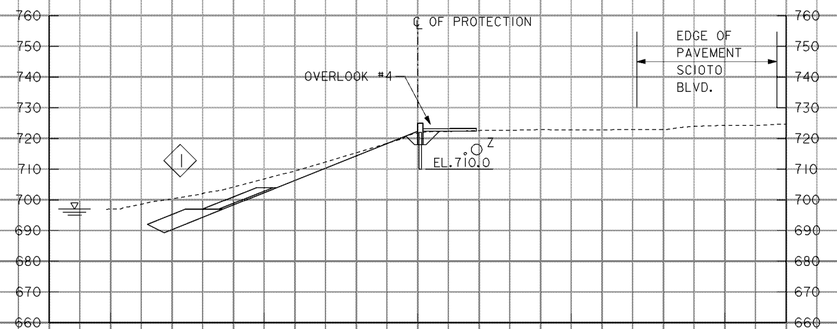
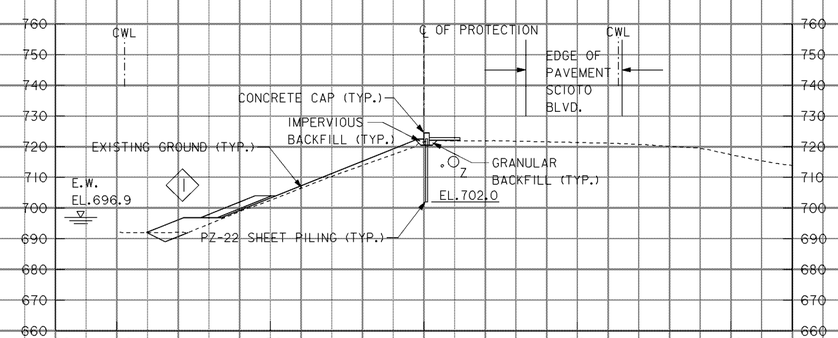
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



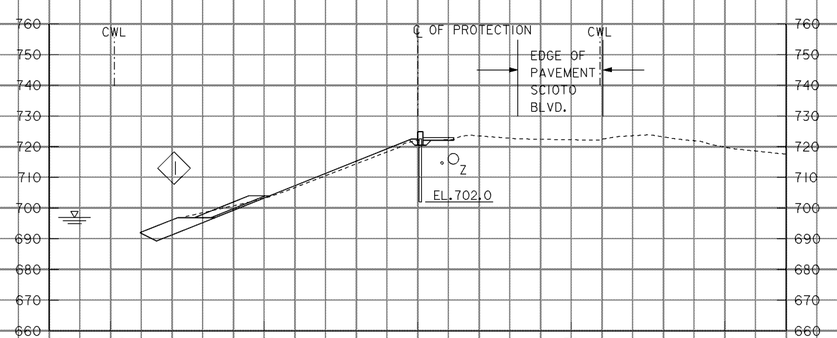
211+00



212+50



210+50



212+00

NOTES

1. FOR CONCRETE CAP SEE DRAWING NO. 20.3/2.
2. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR DODGE PARK RIVERBANK TREATMENT TYPICAL SECTION SEE DRAWING NO.20.2/25.
4. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

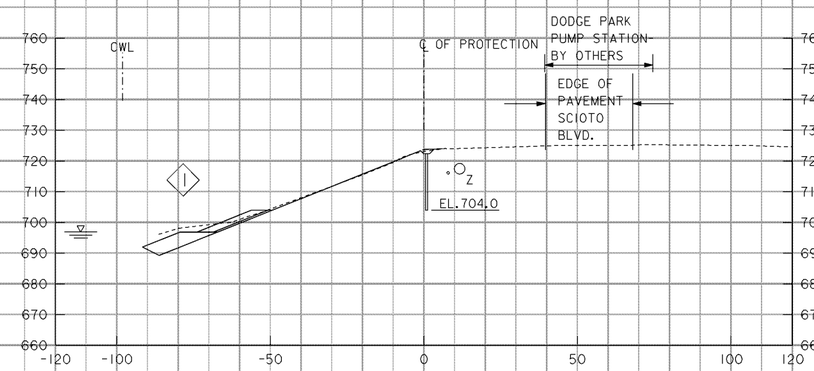
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

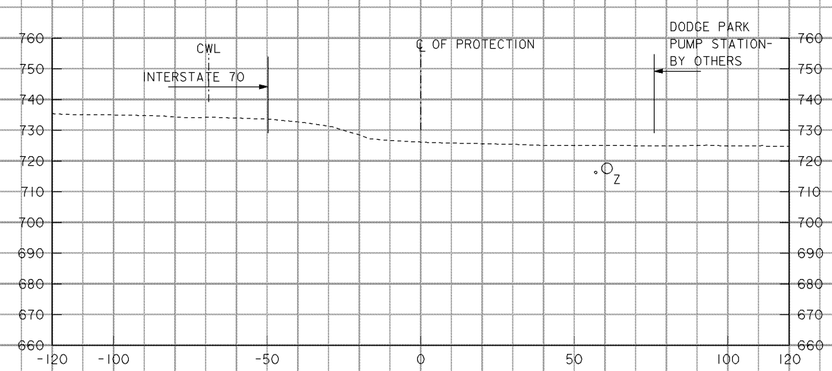
CROSS SECTIONS 210+50 TO 213+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 1635
FILENAME: 00a5xx21.dgn
PEN TABLE:
Sheet 21 of 22

WORK AS CONSTRUCTED



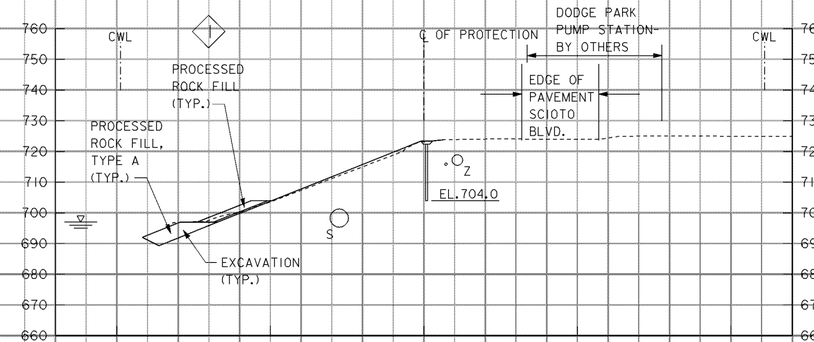
214+50



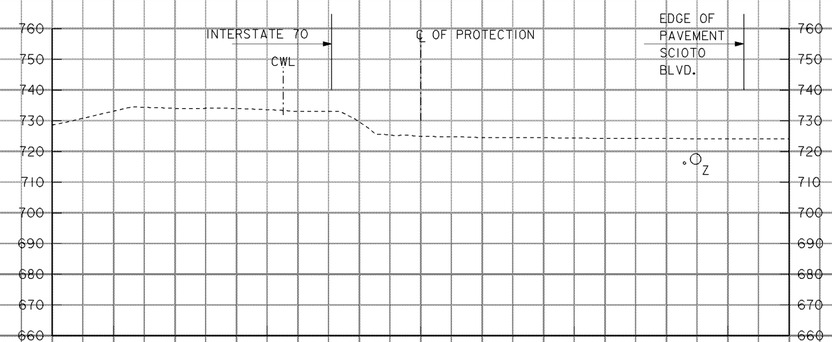
215+82.37

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
G -EXISTING 10" RCP STORM SEWER
H -EXISTING 8" RCP STORM SEWER
I -EXISTING 15" RCP STORM SEWER
J -EXISTING 12" RCP STORM SEWER
K -NEW 12" RCP STORM SEWER
L -EXISTING 12" WATERLINE
M -EXISTING 24" RCP STORM SEWER
N -ABANDONED SANITARY SEWER
O -EXISTING 15" BRICK STORM SEWER
P -EXISTING 4" RCP STORM SEWER
Q -EXISTING 8" SANITARY SEWER
R -EXISTING 36" WATERLINE
S -EXISTING 72" RCP STORM SEWER
T -EXISTING 6" WATERLINE
U -EXISTING TELEPHONE LINE
V -NEW 36" RCP STORM SEWER
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



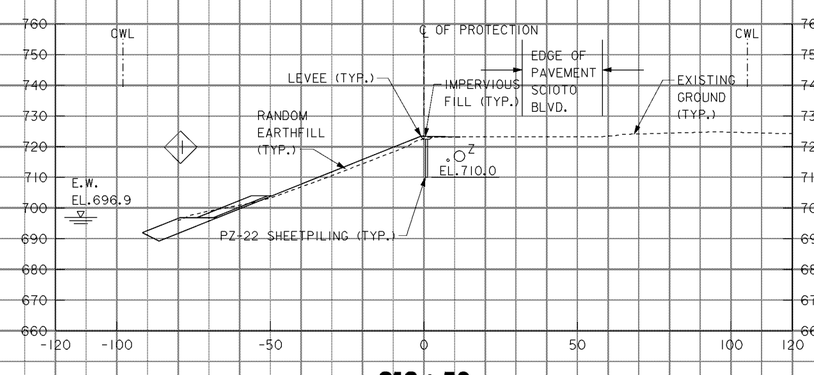
214+00



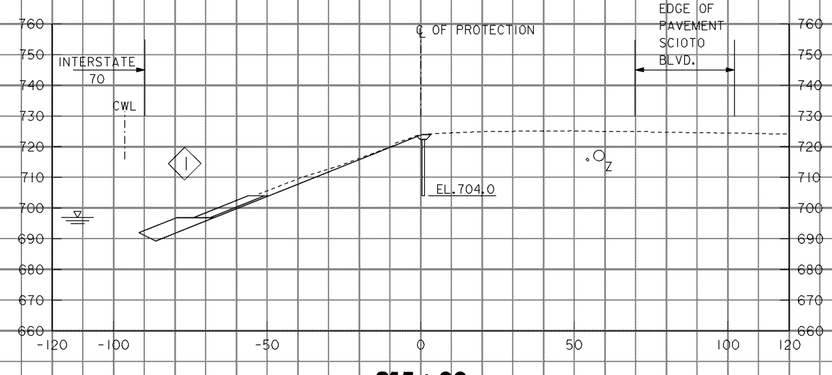
215+50

NOTES

1. FOR CONCRETE CAP SEE DRAWING NO. 20.3/2.
2. FOR CWL AND LWL SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR DODGE PARK RIVERBANK TREATMENT TYPICAL SECTION SEE DRAWING NO.20.2/25.
4. NEW FILL PLACED ON EXISTING SLOPES SHALL BE PLACED USING BENCHING IN ACCORDANCE WITH THE SPECIFICATIONS.



213+50



215+00

Revisions			
Symbol	Descriptions	Date	Approved
◇	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

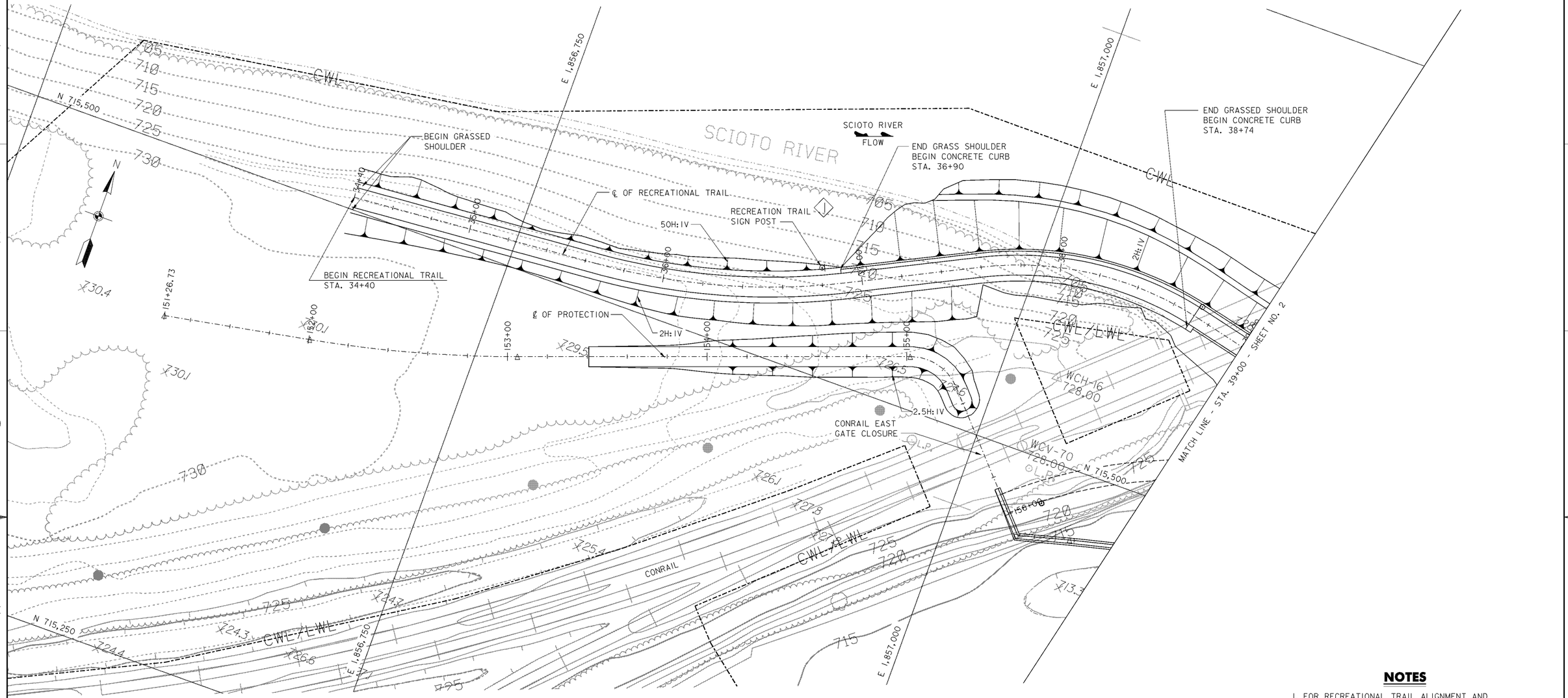
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CROSS SECTIONS 213+50 TO 215+82.37

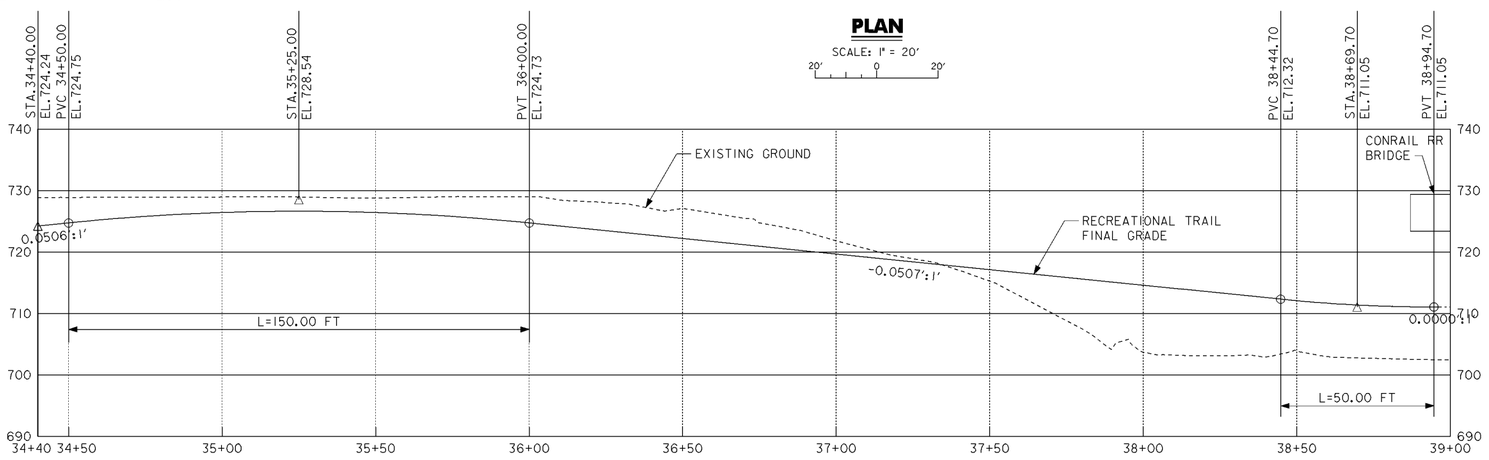
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/36
FILENAME: 00a5xa22.dgn
PEN TABLE:
Sheet 22 of 22

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET

NOTES

1. FOR RECREATIONAL TRAIL ALIGNMENT AND ALIGNMENT DATA SEE DRAWING NOS. 11/11 AND 11/12.
2. FOR RECREATIONAL TRAIL TYPICAL SECTIONS SEE DRAWING NO. 16/55.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T. MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

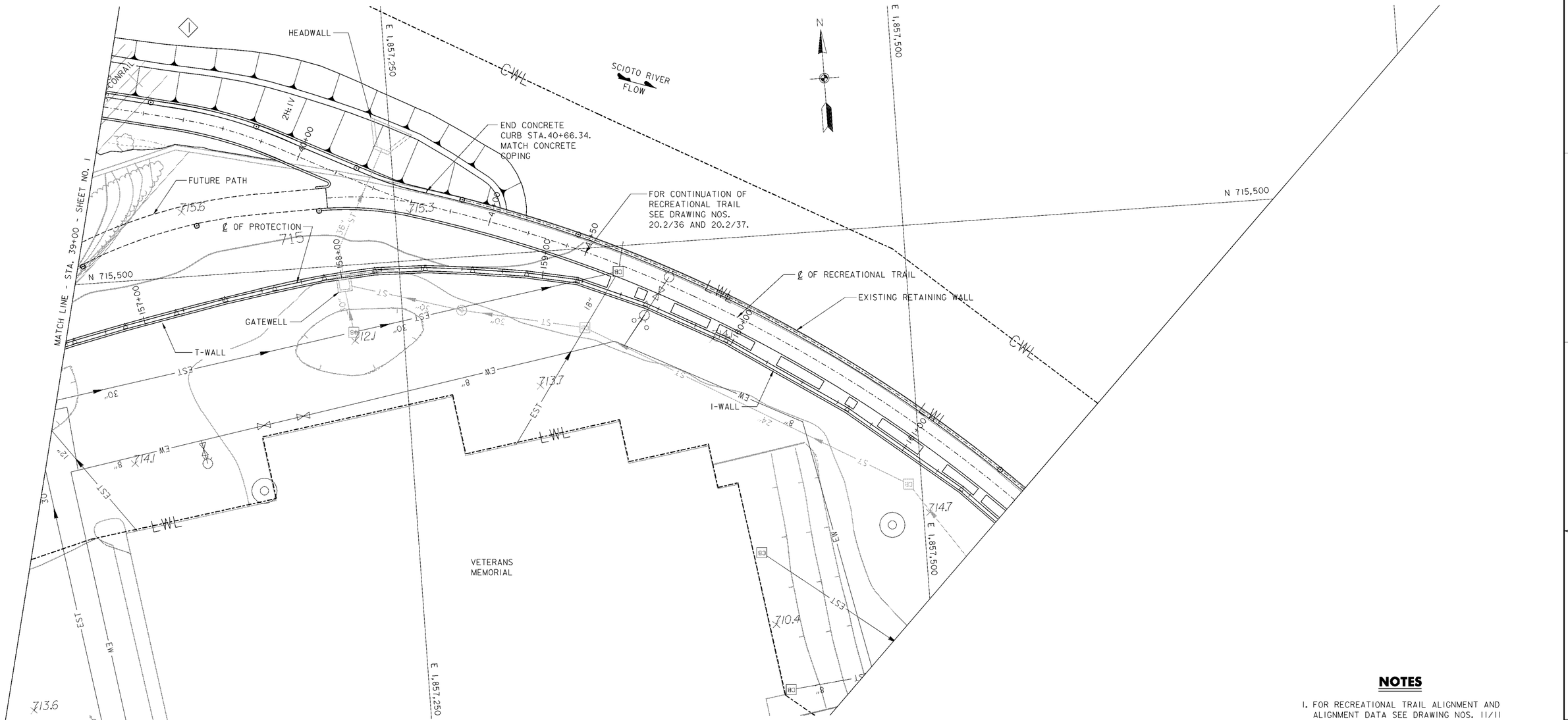
US Army Corps of Engineers

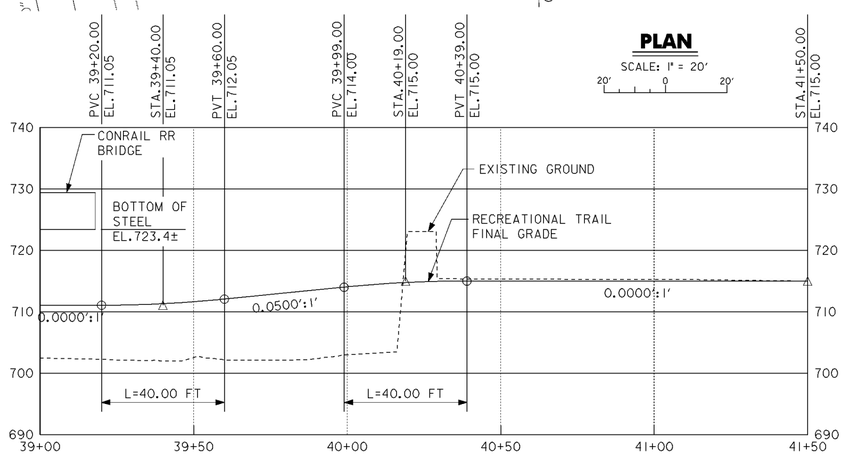
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PLAN AND PROFILE
34+40 TO 39+00

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/50
FILENAME: a0a9pp50.dgn
PEN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED





NOTES

1. FOR RECREATIONAL TRAIL ALIGNMENT AND ALIGNMENT DATA SEE DRAWING NOS. 11/11 AND 11/12.
2. FOR RECREATIONAL TRAIL TYPICAL SECTIONS SEE DRAWING NO. 16/55.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
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Approved by:

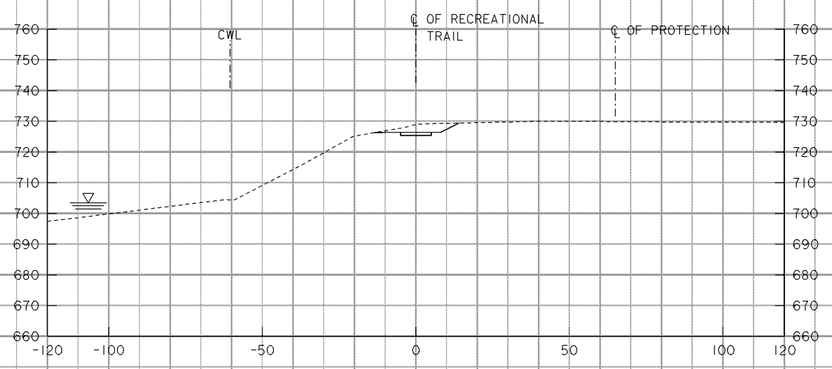
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

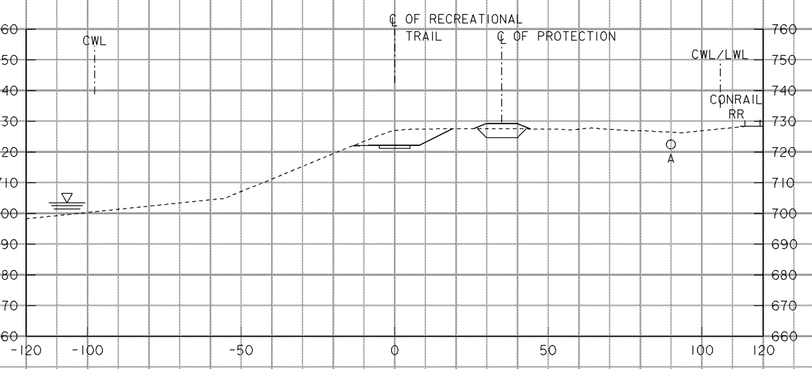
PLAN AND PROFILE
39+00 TO 41+50

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/51
FILENAME: a0a9pp51.dgn
PEN TABLE:
Sheet 2 of 2

WORK AS CONSTRUCTED



35+00



36+50

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
E -NEW 24" RCP STORM SEWER
F -EXISTING 18" RCP STORM SEWER
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W -NEW 8" WATERLINE
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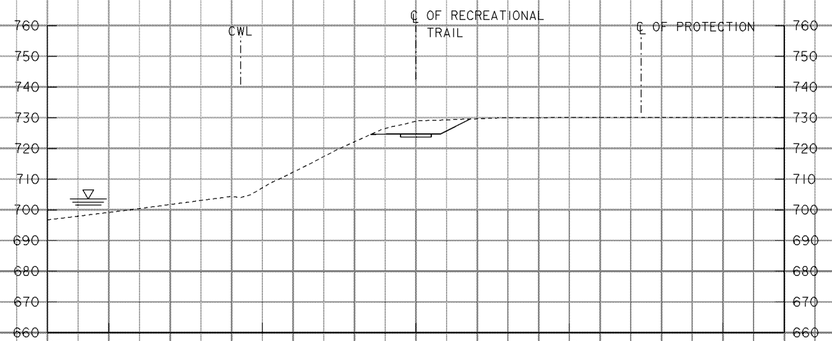
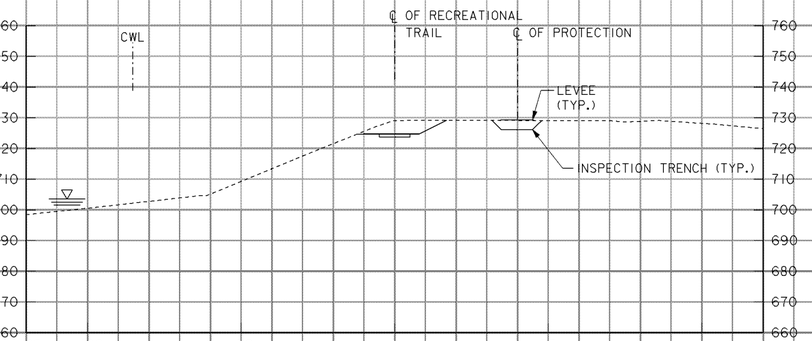
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



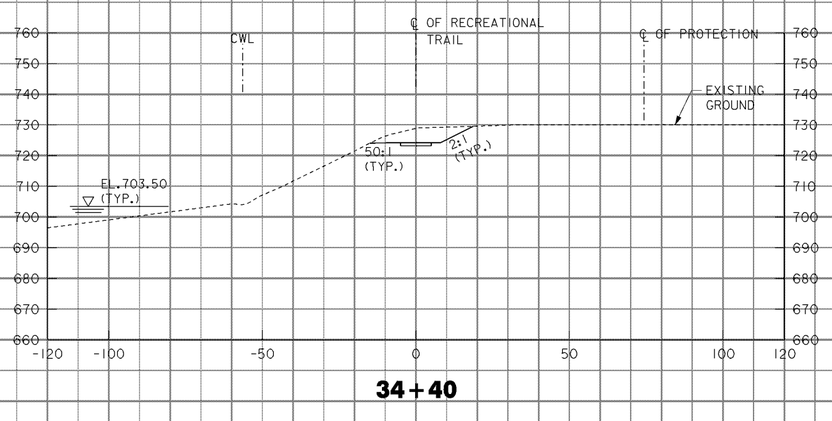
34+50



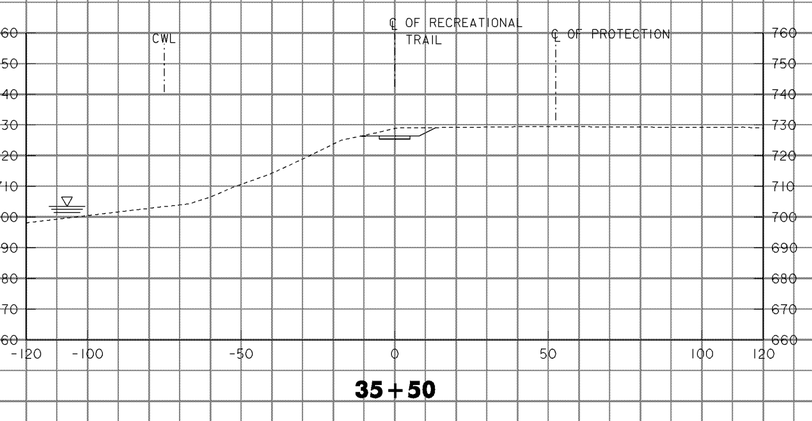
36+00

NOTES

1. FOR CWL AND LWL SEE DRAWING NOS.6/1 THRU 6/4.
2. FOR RECREATIONAL TRAIL PLAN AND PROFILE SEE DRAWING NOS.16/50 AND 16/51.
3. FOR TYPICAL RECREATIONAL TRAIL SECTIONS SEE DRAWING NO.16/55.
4. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO.20.3/1.



34+40



35+50

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T. MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

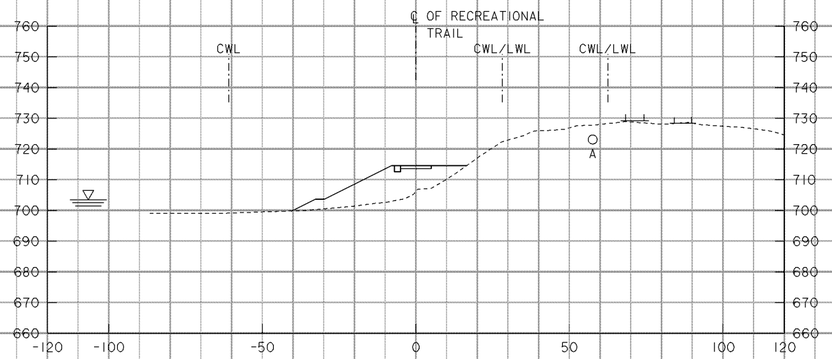
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

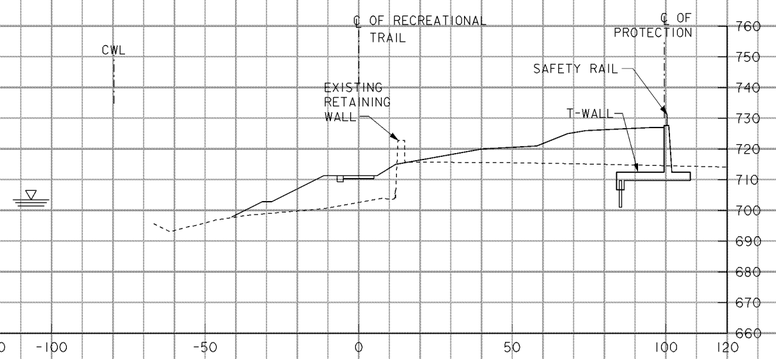
CROSS SECTIONS 34+40 TO 36+50

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/52
FILENAME: 00a9xs01.dgn
PEN TABLE:
Sheet 1 of 3

WORK AS CONSTRUCTED



38+00



39+50

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
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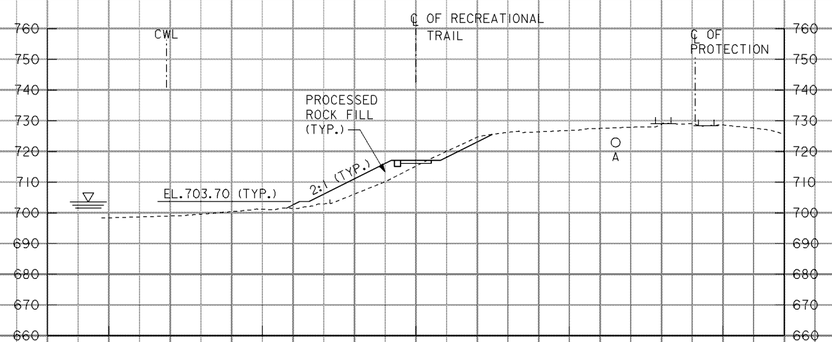
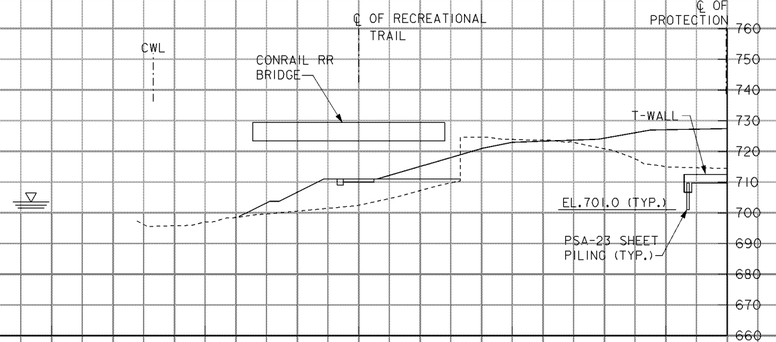
W -NEW 8" WATERLINE
X -EXISTING 12" GAS LINE
Y -EXISTING 6" GAS LINE
Z -NEW 10" AND 36" SANITARY FORCE MAIN



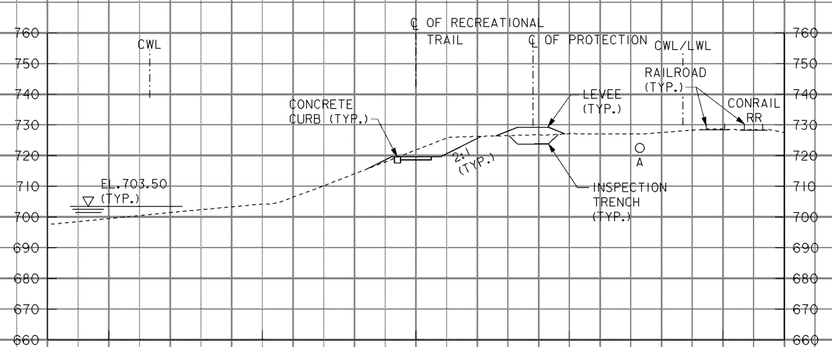
37+50



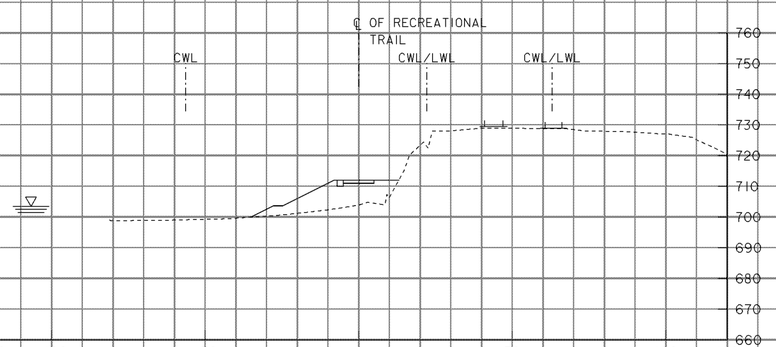
39+00

NOTES

1. FOR CWL AND LWL SEE DRAWING NOS.6/1 THRU 6/4.
2. FOR RECREATIONAL TRAIL PLAN AND PROFILE SEE DRAWING NOS.16/50 AND 16/51.
3. FOR TYPICAL RECREATIONAL TRAIL SECTIONS SEE DRAWING NO.16/55.
4. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO.20.3/1.
5. FOR CONCRETE T-WALL DETAILS SEE DRAWING NO.20.1/3.
6. FOR LIMITS OF SAFETY RAIL SEE DRAWING NOS. 20.2/38 AND 20.2/39.
7. FOR LIMITS OF DEMOLITION OF EXISTING RETAINING WALL SEE DRAWING NOS. 20.2/29 THRU 20.2/31.



37+00



38+50

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T. MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

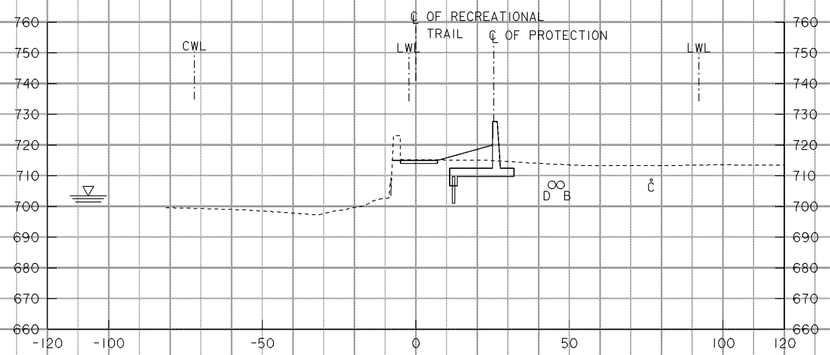
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

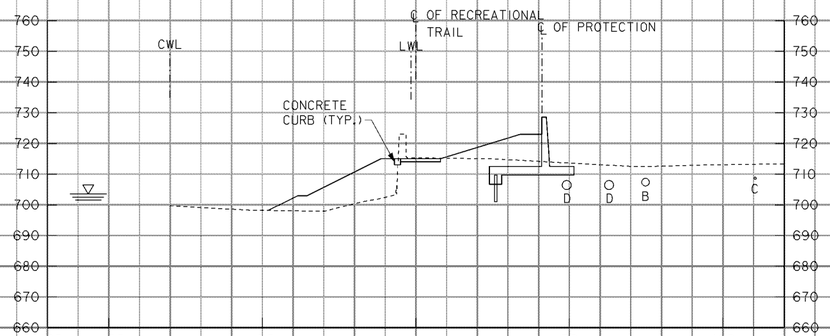
CROSS SECTIONS 37+00 TO 39+50

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/53
FILENAME: 00a9xs02.dgn
PEN TABLE:
Sheet 2 of 3

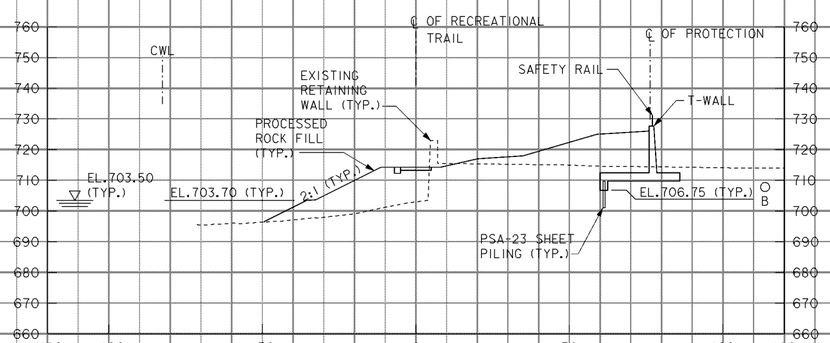
WORK AS CONSTRUCTED



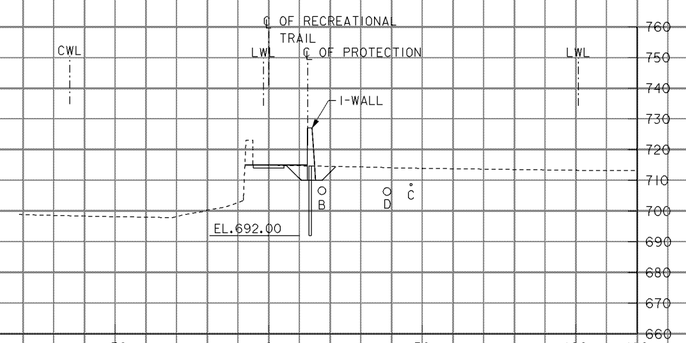
41+00



40+50



40+00



41+50

LEGEND

A -EXISTING UNDERGROUND FIBER OPTIC
B -EXISTING 30" RCP STORM SEWER
C -EXISTING 8" WATERLINE
D -NEW 30" RCP STORM SEWER
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Z -NEW 10" AND 36" SANITARY FORCE MAIN

NOTES

1. FOR CWL AND LWL SEE DRAWING NOS.6/1 THRU 6/4.
2. FOR RECREATIONAL TRAIL PLAN AND PROFILE SEE DRAWING NOS.16/50 AND 16/51.
3. FOR TYPICAL RECREATIONAL TRAIL SECTIONS SEE DRAWING NO.16/55.
4. FOR CONCRETE I-WALL DETAILS SEE DRAWING NO.20.1/1.
5. FOR CONCRETE T-WALL DETAILS SEE DRAWING NO.20.1/3.
6. FOR LIMITS OF SAFETY RAIL SEE DRAWING NOS. 20.2/38 AND 20.2/39.
7. FOR LIMITS OF DEMOLITION OF EXISTING RETAINING WALL SEE DRAWING NOS. 20.2/29 THRU 20.2/31.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T. MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

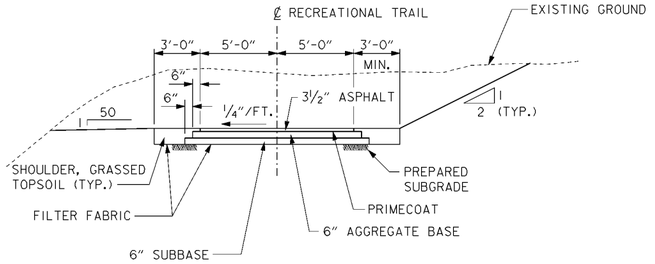
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CROSS SECTIONS
40+00 TO 41+50

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/54
FILENAME: 00a9xa03.dgn
PEN TABLE:
Sheet 3 of 3

WORK AS CONSTRUCTED

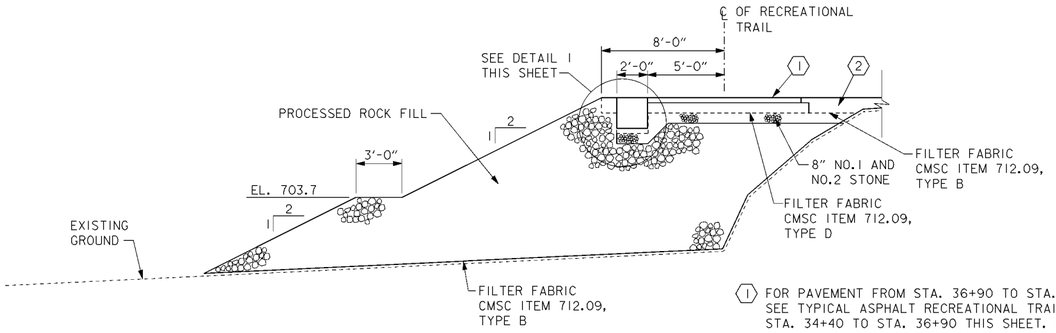


NOTE: ASPHALT CONSISTS OF 1 1/2" OF ASPHALT CONCRETE SURFACE COURSE OVERLYING 2" OF ASPHALT CONCRETE BASE COURSE. APPLY TACK COAT BETWEEN ASPHALT CONCRETE BASE COURSE AND ASPHALT CONCRETE SURFACE COURSE.

TYPICAL ASPHALT RECREATIONAL TRAIL SECTION

STA. 34+40 TO STA. 36+90

SCALE: 1/4" = 1'-0"



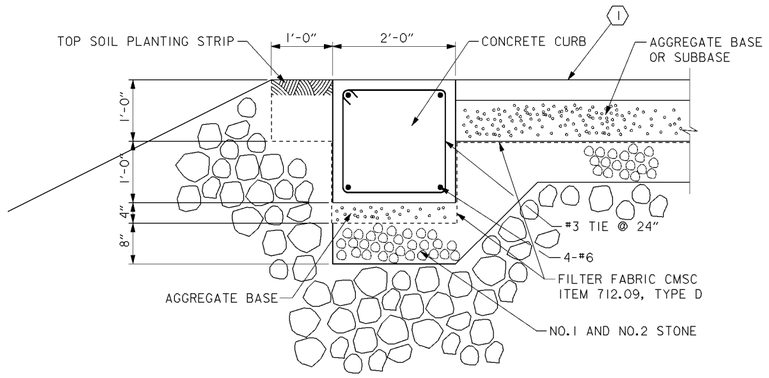
(1) FOR PAVEMENT FROM STA. 36+90 TO STA. 38+74 SEE TYPICAL ASPHALT RECREATIONAL TRAIL SECTION, STA. 34+40 TO STA. 36+90 THIS SHEET. FOR PAVEMENT FROM STA. 38+74 TO STA. 40+66.34, SEE DWG. NO.20.2/51.

(2) GRASSED SHOULDER FROM STA. 36+90 TO STA. 38+74. CONCRETE CURB AND RANDOM EARTH FILL STARTS AT STA. 38+74, SEE DWG NO.20.2/51.

TYPICAL RECREATIONAL TRAIL SECTION WITH PROCESSED ROCK FILL

STA. 36+90 TO STA. 40+66.34

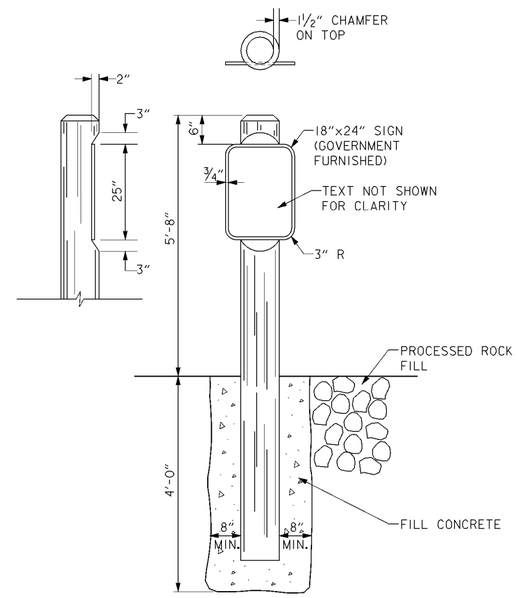
SCALE: 1/4" = 1'-0"



NOTE: PROVIDE EXPANSION JOINT AT 20'-0" O.C. AND CONTROL JOINTS AT 10'-0" O.C. JOINTS IN CURB ADJACENT TO CONCRETE PAVEMENT SHALL COINCIDE WITH PAVEMENT JOINTING.

DETAIL 1

SCALE: 1" = 1'-0"



- SIGNBOARDS PROVIDED BY OWNER FOR CONTRACTOR INSTALLATION SIGNS DARK BROWN WITH WHITE LETTERS AND LINE BORDER.
- INSTALL POST 3' FROM EDGE OF PAVEMENT
- PROTECT CUT AREAS WITH POLYURETHANE
- POST STAINED BROWN

REC. TRAIL SIGN POST

SCALE: 3/4" = 1'-0"

NOTES

1. FOR RECREATIONAL TRAIL LAYOUT SEE DRAWING NOS. 16/50, 16/51, AND 20.2/35 THRU 20.2/37

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T. MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

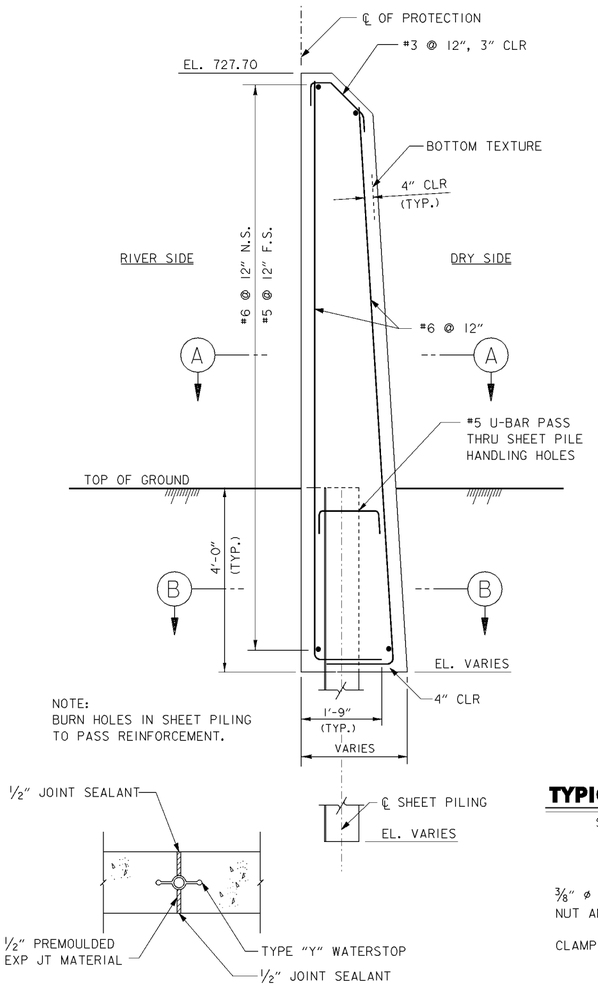
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

TYPICAL SECTIONS AND DETAILS

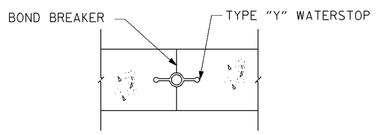
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 16/55
FILENAME: 00edts09.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



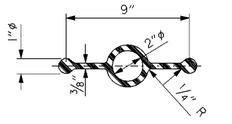
TYPICAL TYPE "A" JOINT @ SECTION A–A

SCALE: 1" = 1'-0"



TYPICAL TYPE "B" JOINT @ SECTION A–A

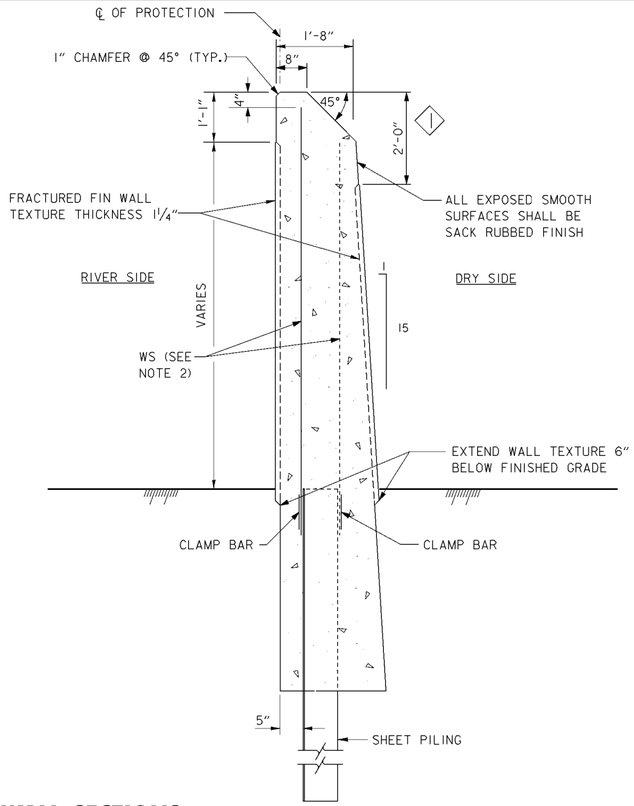
SCALE: 1" = 1'-0"



TYPE "Y" WATERSTOP (WS)

SCALE: 3" = 1'-0"

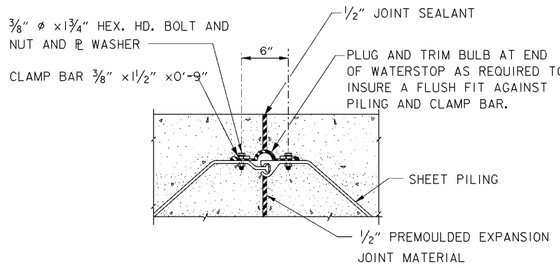
NOTE:
OPENINGS IN TOP OF ALL TYPE "Y" WATERSTOPS AND WHERE WATERSTOPS ARE CLAMPED TO SHEET PILING SHALL BE PLUGGED WITH SOFT RUBBER FOR A 2" MIN. DEPTH



TYPICAL I-WALL SECTIONS

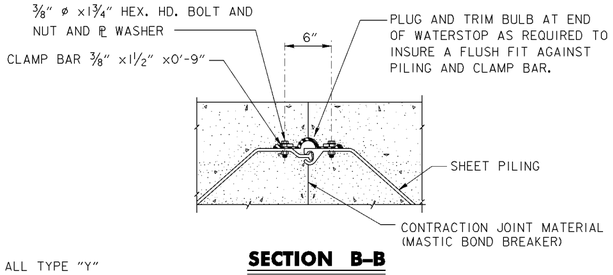
STA. 159+08.31 TO 162+23.60

SCALE: 3/4" = 1'-0"



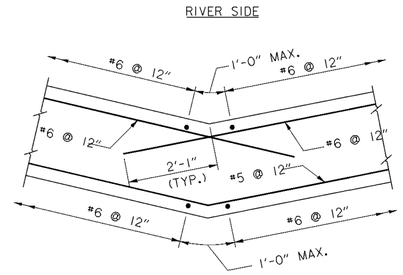
SECTION B–B TYPE "A" MONOLITH JOINT

SCALE: 1 1/2" = 1'-0"



SECTION B–B TYPE "B" MONOLITH JOINT

SCALE: 1 1/2" = 1'-0"



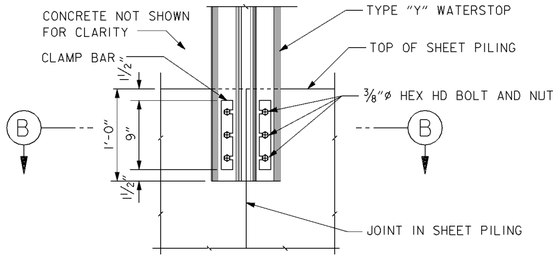
NOTE:
INSIDE CORNER BARS ABOVE SHEET PILING EXTEND STRAIGHT. BAR BELOW TOP OF SHEET PILING HOOK AS SHOWN BY DASHED LINES, HOOK 1" CLR OF SHEETS.

TYPICAL CORNER MONOLITH

SCALE: 1 1/2" = 1'-0"

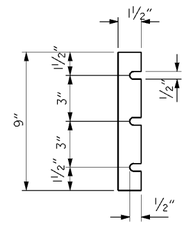
DESIGN PILE SECTIONS AND DEPTHS OF PENETRATION

I-WALL HEIGHT (ft.)	DESIGN DEPTH OF PENETRATION (ft.)	PILE SECTION
3.0	4.5	PZ-22
5.0	7.0	PZ-22
7.0	10.0	PZ-22
9.5	15.0	PZ-27
12.7	21.0	PZ-40
12.7 @ EXIST. FLOODWALL	22.0	PZ-40



PILING WATERSTOP CONNECTION

SCALE: 1 1/2" = 1'-0"



CLAMP BAR

SCALE: 3" = 1'-0"

NOTES

1. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.
2. SEE DRAWING NOS. 20.1/8 THRU 20.1/10 FOR WATER STOP LOCATION.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: D.BECKNER
Checked by: D.TRAINA
Reviewed by:
Approved by:

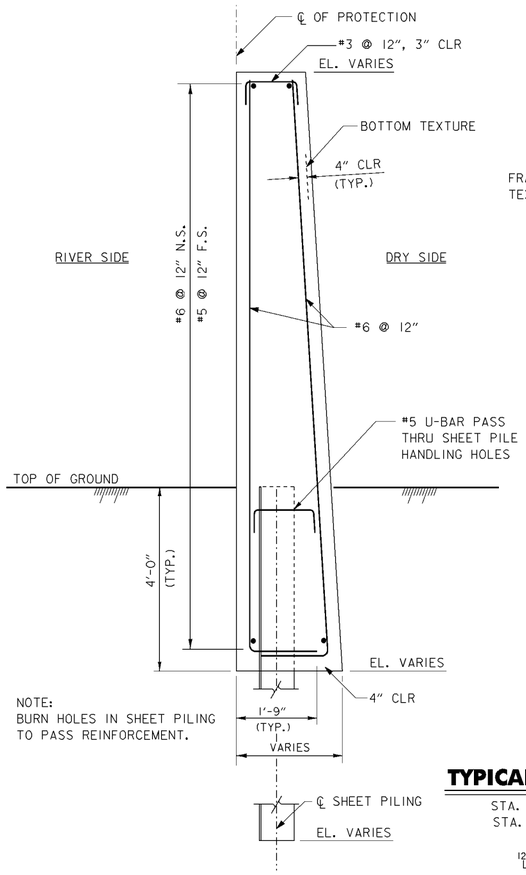
US Army Corps of Engineers

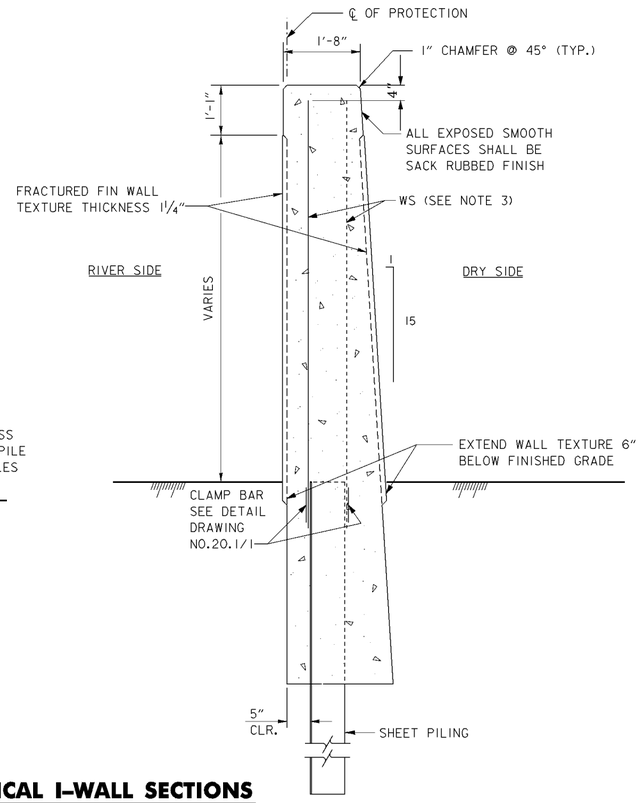
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

TYPICAL FLOODWALL AND I-WALL DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.11
FILENAME: a0add101.dgn
PEN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED

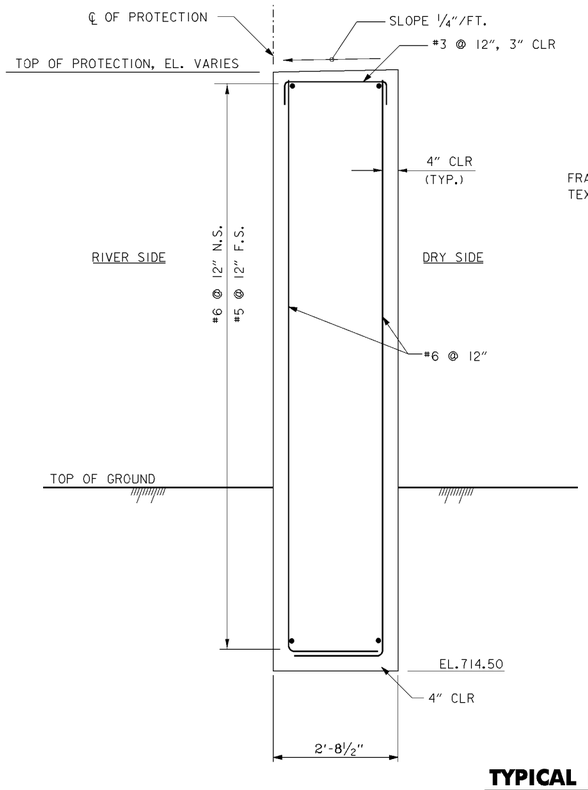


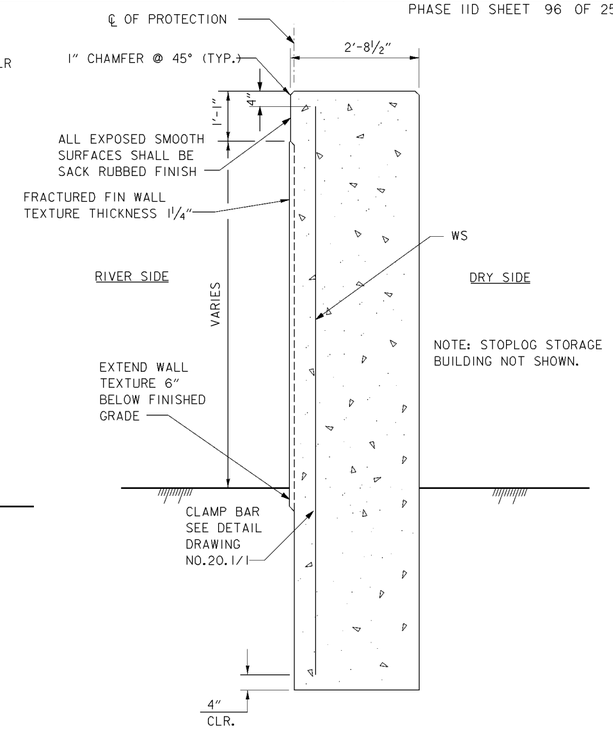


TYPICAL I-WALL SECTIONS

STA. 190+40.04 TO 190+70.91
STA. 192+11.91 TO 192+63.59

SCALE: ¾" = 1'-0"
12" 6" 0 1' 2'

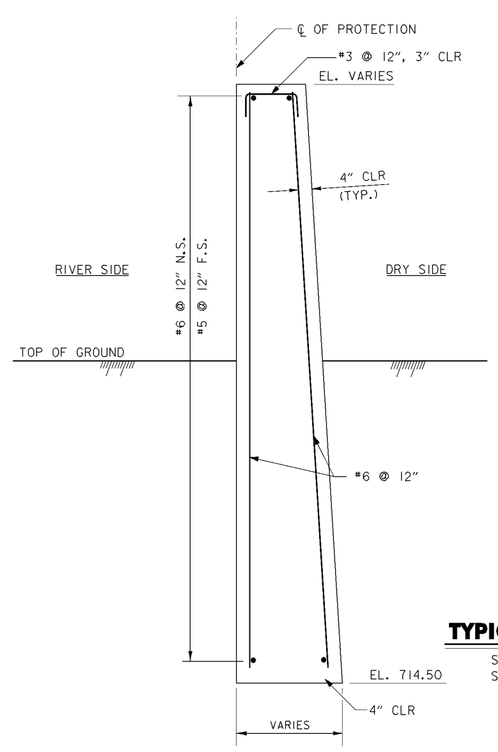


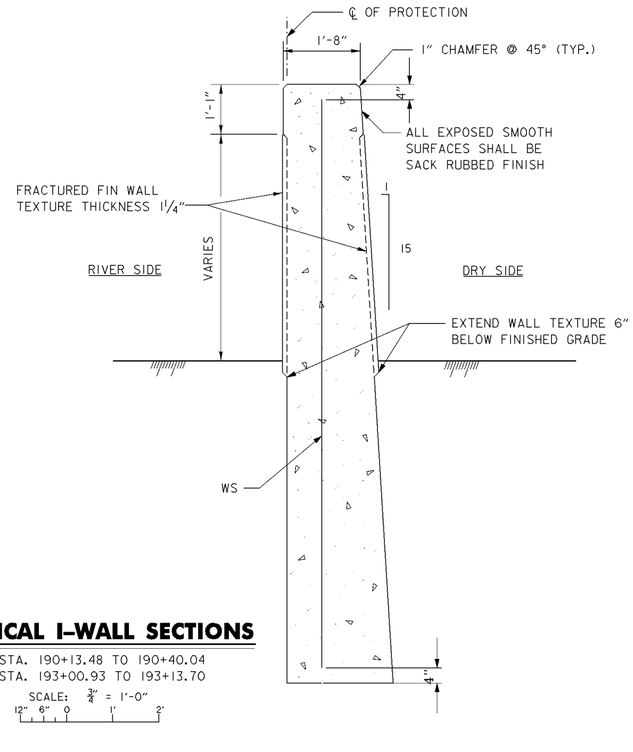


TYPICAL I-WALL SECTIONS

STA. 192+63.59 TO 193+00.93

SCALE: ¾" = 1'-0"
12" 6" 0 1' 2'

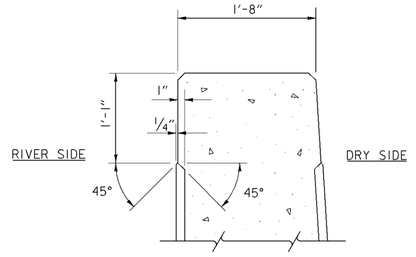




TYPICAL I-WALL SECTIONS

STA. 190+13.48 TO 190+40.04
STA. 193+00.93 TO 193+13.70

SCALE: ¾" = 1'-0"
12" 6" 0 1' 2'



TYPICAL CAP DETAIL

STA. 190+13.48 TO 192+36.36
STA. 193+00.93 TO 193+13.70
EXCEPT AS NOTED AT RICH STREET GATE CLOSURE

SCALE: 1 ½" = 1'-0"
12" 9" 6" 3" 0 1'

NOTES

1. FOR TYPICAL CORNER MONOLITH AND MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/1.
2. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.
3. SEE DRAWING NO. 20.1/11 FOR WATERSTOP LOCATION.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: D.BECKNER
Checked by: D.TRAINA
Reviewed by:
Approved by:

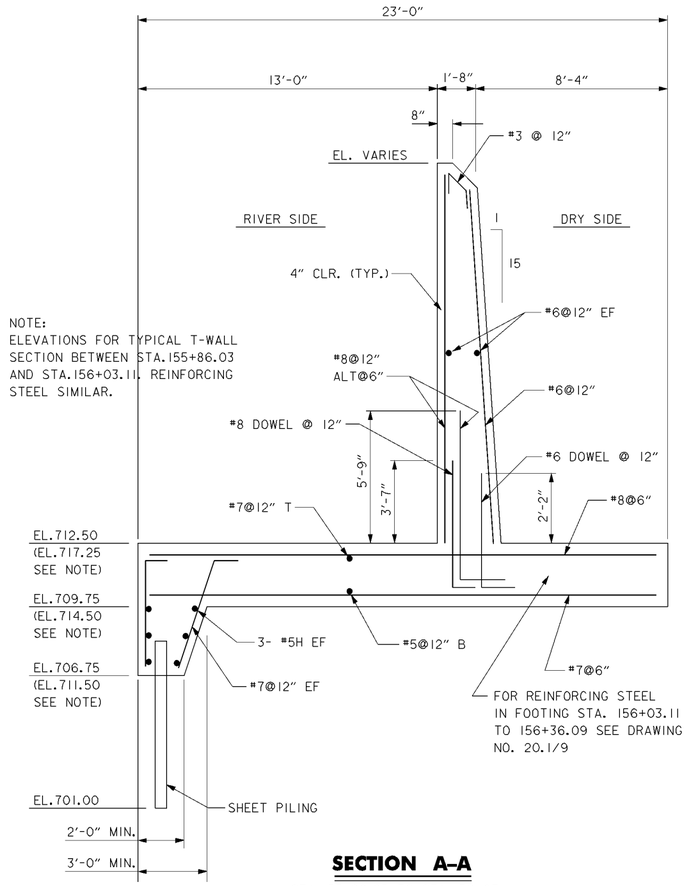
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

TYPICAL I-WALL DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/2
FILENAME: 00add102.dgn
PEN TABLE:
Sheet 2 of 2

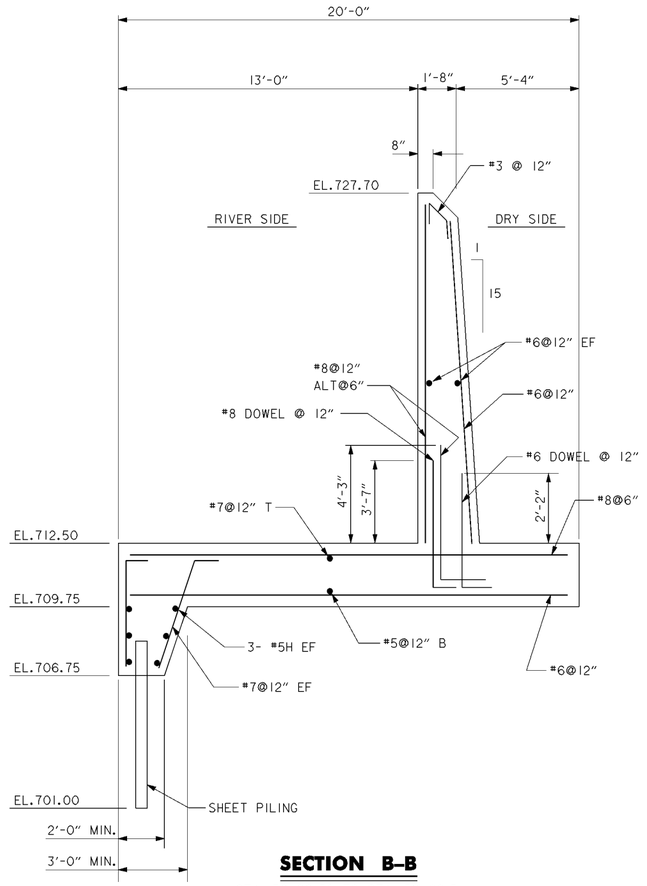
WORK AS CONSTRUCTED



NOTE:
ELEVATIONS FOR TYPICAL T-WALL SECTION BETWEEN STA.155+86.03 AND STA.156+03.11. REINFORCING STEEL SIMILAR.

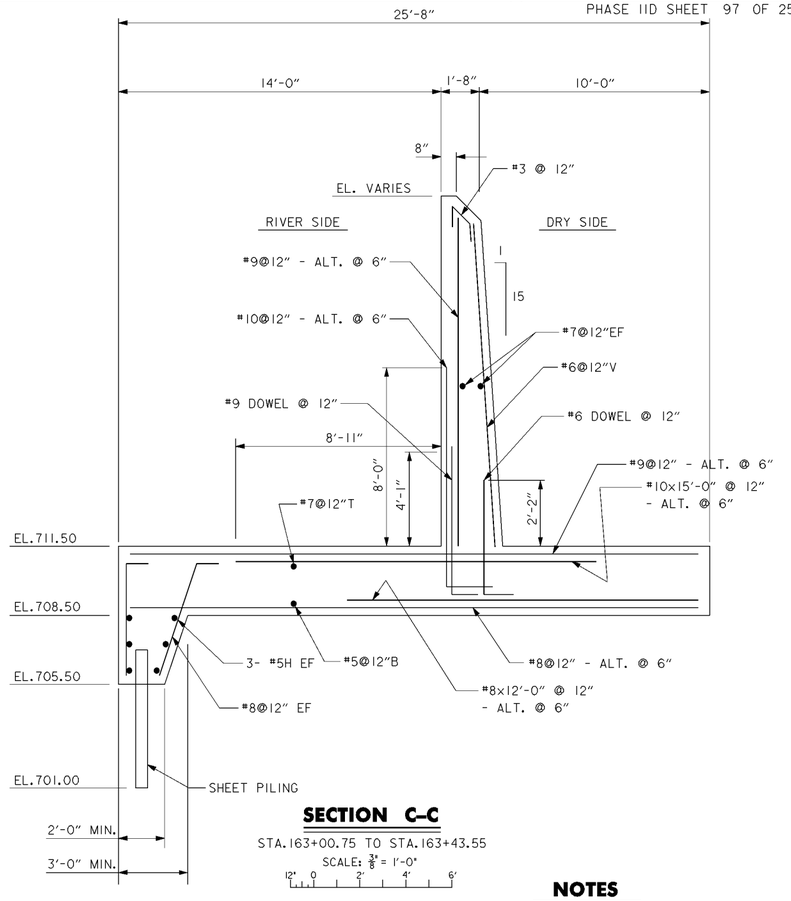
SECTION A–A

STA.155+86.03 TO STA.156+03.11
(STA.156+03.11 TO STA.156+99.58)
(STA.162+74.09 TO STA.163+00.75)
SCALE: 3/8" = 1'-0"



SECTION B–B

STA.156+99.58 TO STA.159+08.31
STA.162+23.60 TO STA.162+74.04
SCALE: 3/8" = 1'-0"

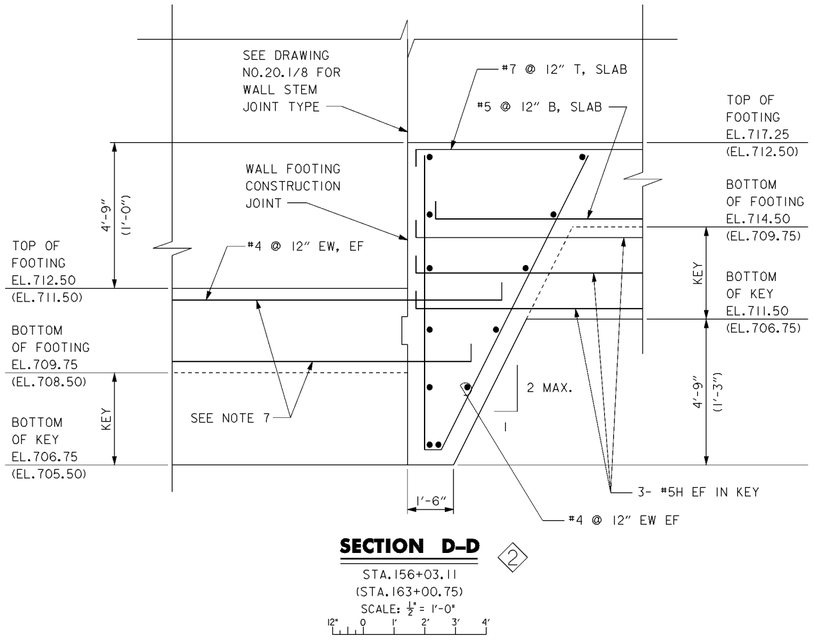


SECTION C–C

STA.163+00.75 TO STA.163+43.55
SCALE: 3/8" = 1'-0"

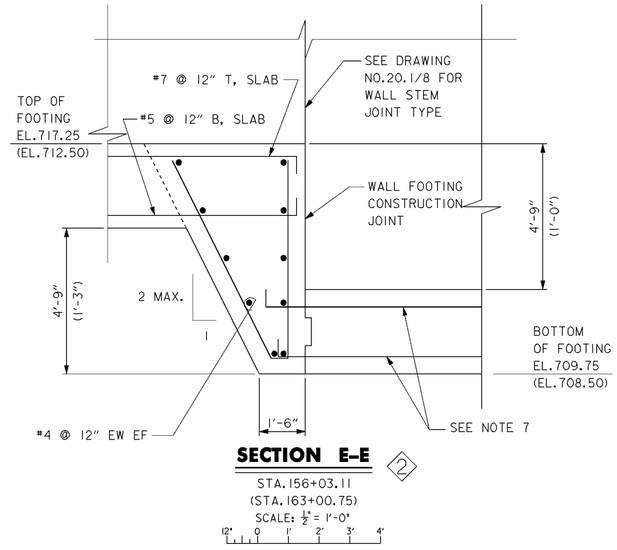
NOTES

1. FOR TYPICAL CORNER MONOLITH AND MONOLITH JOINT DETAILS SEE DRAWING NO.20.1/1.
2. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO.20.1/1.
3. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO.20.2/9.
4. WHERE TWO DIFFERENT LENGTH DOWELS ARE SHOWN, SPLICE FULL HEIGHT VERTICAL WALL BARS WITH SHORTER DOWELS.
5. SEE "TYPICAL T-WALL SECTION" ON DRAWING NO. 20.1/4 FOR ADDITIONAL DETAILS.
6. FOR PLAN VIEW SEE DRAWING NO.20/8 THRU 20/10.
2 7. LONGITUDINAL FOOTING BARS SHALL EXTEND THROUGH CONSTRUCTION JOINTS. AT STEPS IN FOOTING END BARS WITH STANDARD HOOK.
2 8. FOR TYPICAL FOOTING CONSTRUCTION JOINT SEE DRAWING NO.20.1/9.



SECTION D–D

2
STA.156+03.11
(STA.163+00.75)
SCALE: 1/2" = 1'-0"



SECTION E–E

2
STA.156+03.11
(STA.163+00.75)
SCALE: 1/2" = 1'-0"

2

Revisions			
Symbol	Descriptions	Date	Approved
2	REV. BY CHANGE REQUEST MC007	3/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: T.MULLINS
Checked by: D.TRAINA
Reviewed by:
Approved by:

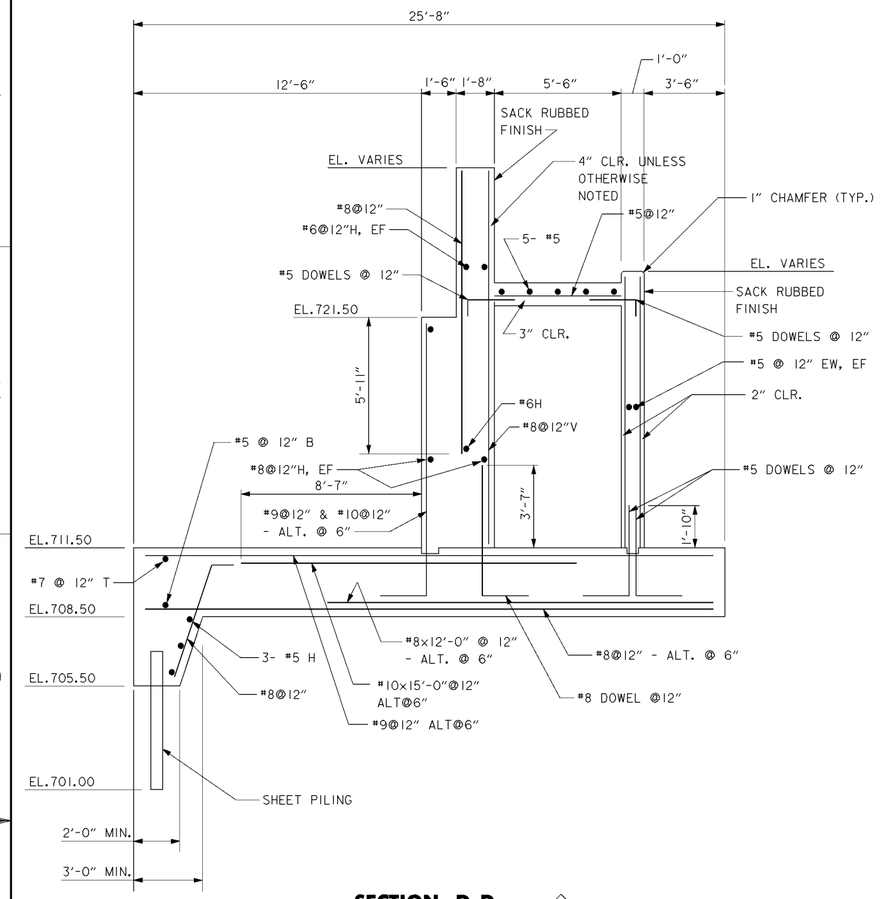
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

TYPICAL T-WALL DETAILS (1 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/3
FILENAME: 01twall.dgn
PEN TABLE:
Sheet 1 of 2

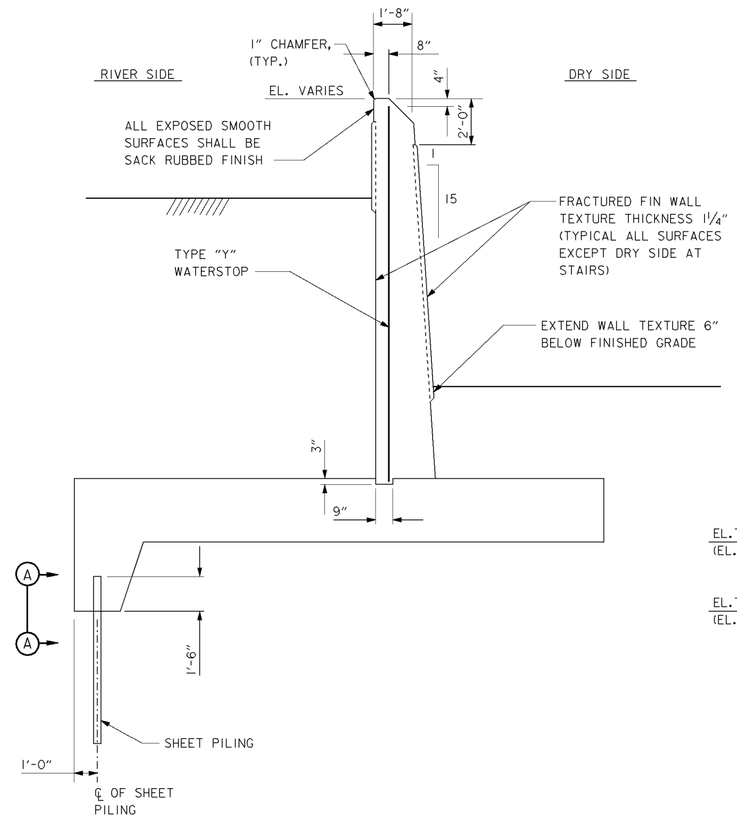
WORK AS CONSTRUCTED



SECTION D-D

STA.163+43.55 TO 163+86.17

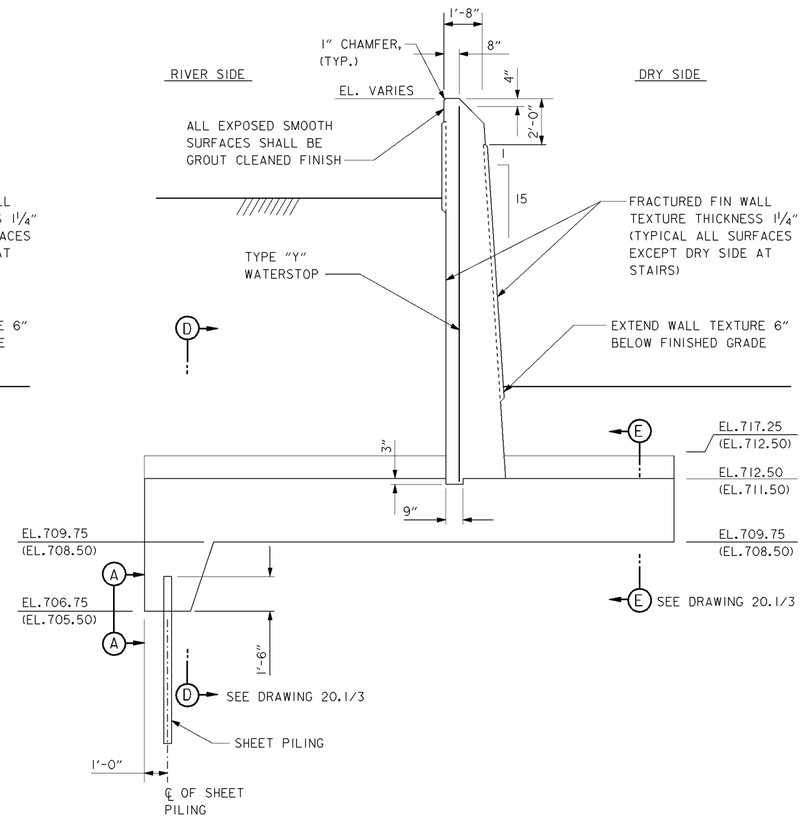
SCALE: 3/8" = 1'-0"



TYPICAL T-WALL WATERSTOP

STA.155+86.03 TO 159+08.31
STA.162+23.60 TO 163+43.55

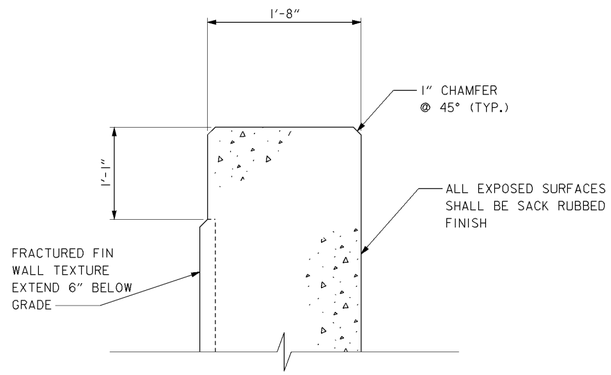
SCALE: 3/8" = 1'-0"



TYPICAL T-WALL WATERSTOP AT CHANGE IN BASE ELEVATION

STA.156+03.11
(STA.163+00.75)

SCALE: 3/8" = 1'-0"



NOTE:
WATERSTOP NOT SHOWN. SIMILAR TO TYPICAL T-WALL SECTION.

TYPICAL T-WALL CAP

STA.163+43.55 TO 163+86.77

SCALE: 1 1/2" = 1'-0"

NOTES

1. FOR WATERSTOP SHEETPILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO.20.1/1.
2. FOR CORNER MONOLITH REINFORCING AND MONOLITH JOINT DETAILS SEE DRAWING NO.20.1/1.
3. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO.20.2/9.
4. FOR PLAN AND PROFILE VIEWS SEE DRAWING NO.16/3.
5. FOR TYPICAL FOOTING CONSTRUCTION JOINT SEE DRAWING NO.20.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
2	REV. BY CHANGE REQUEST MC007	3/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: T.MULLINS
Checked by: D.TRAINA
Reviewed by:
Approved by:

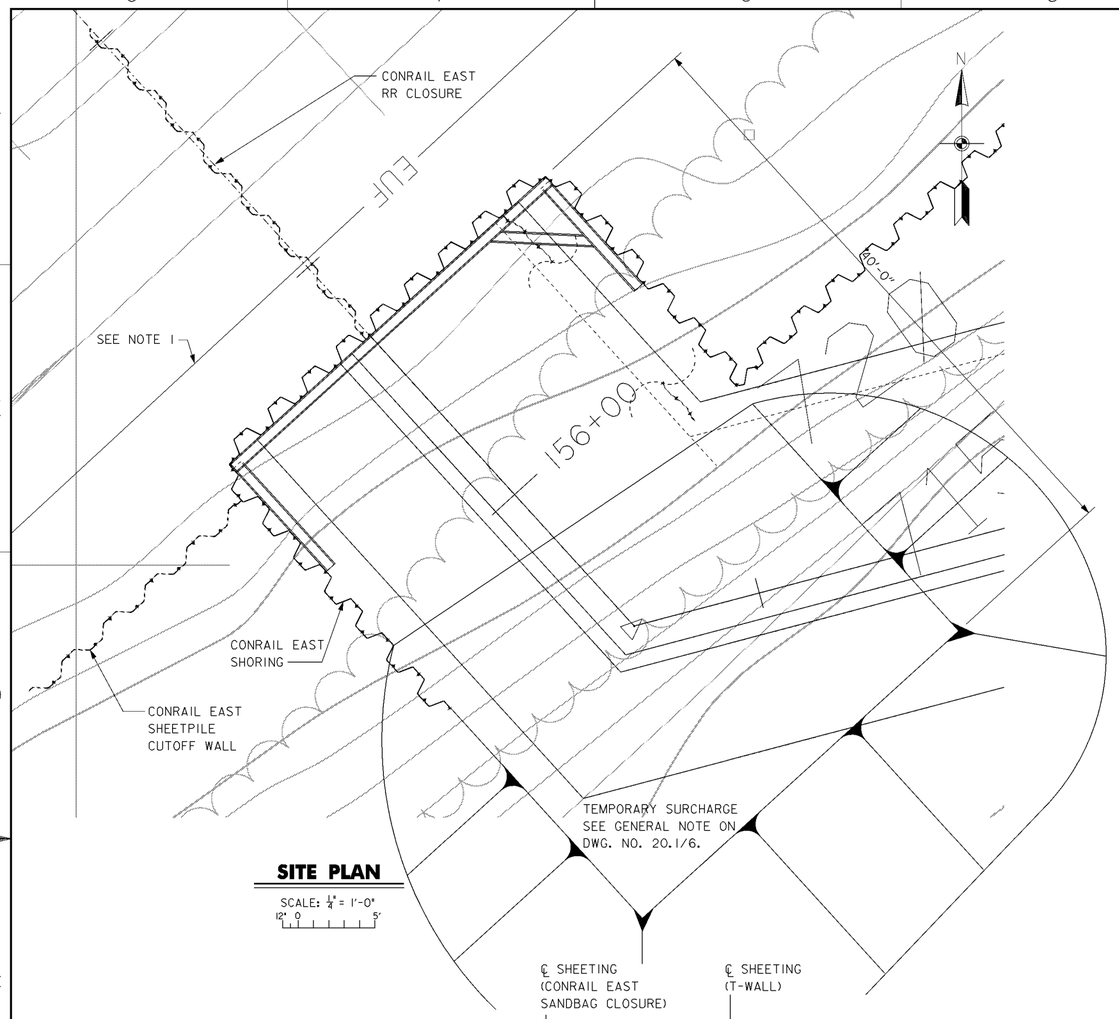
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

TYPICAL T-WALL DETAILS (2 OF 2)

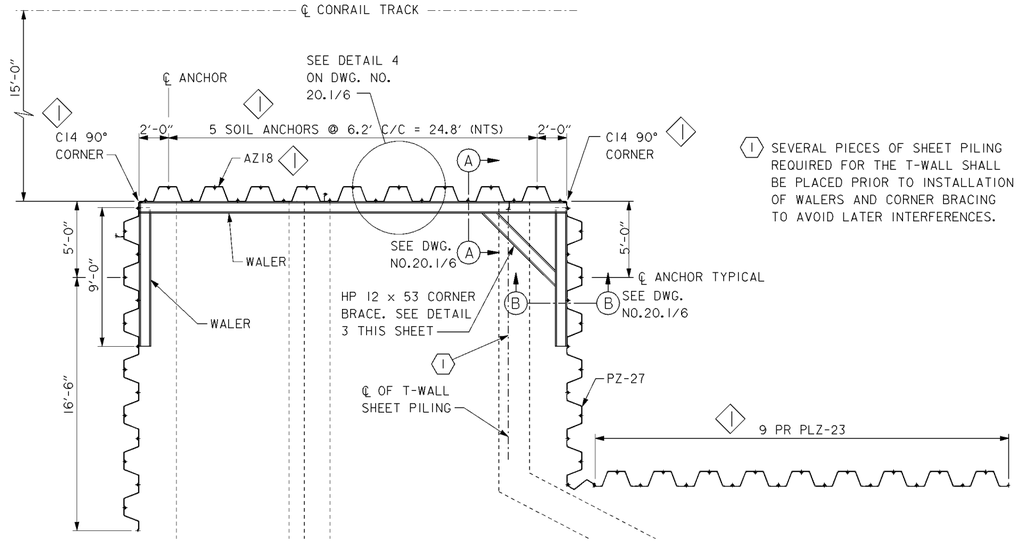
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/4
FILENAME: PEN TABLE: 01twall2.dgn
Sheet 2 of 2

WORK AS CONSTRUCTED



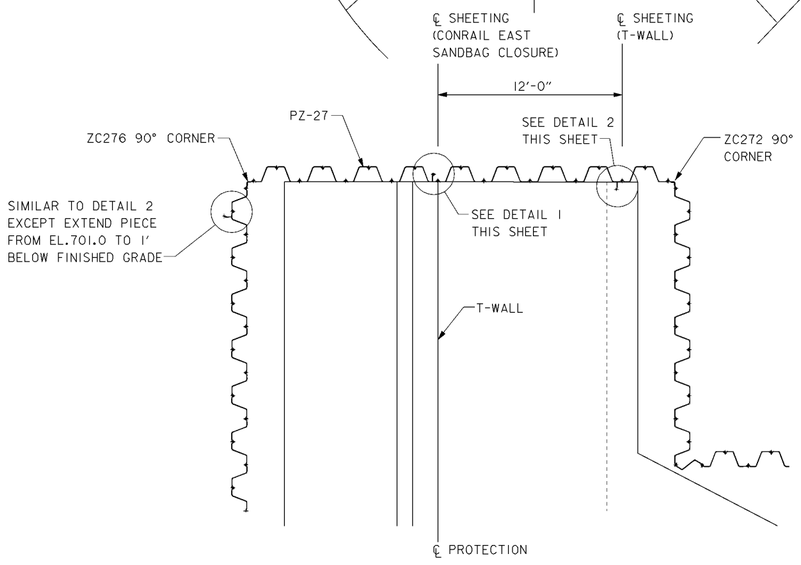
SITE PLAN

SCALE: 1/4" = 1'-0"



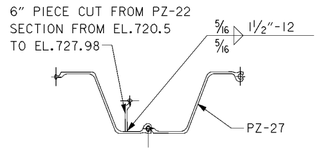
SHORING PLAN

SCALE: 1/4" = 1'-0"



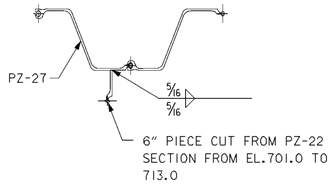
SHEETING CONNECTIONS

SCALE: 1/4" = 1'-0"



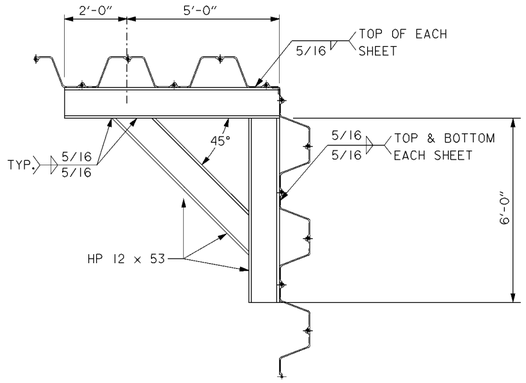
DETAIL 1

SCALE: NONE



DETAIL 2

SCALE: NONE



NOTE: ATTACH CENTERLINE HP 12 x 53
CORNER BRACE AT EL. 717.75

DETAIL 3

SCALE: 1/2" = 1'-0"

NOTES

1. Q-WEST FIBER OPTIC LINE LOCATED IN RAILROAD RIGHT-OF-WAY SOUTH OF CONRAIL TRACKS. THE CONTRACTOR SHALL HAVE LINE LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION OR PLACEMENT OF PILING.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: V.AMATO
Drawn by: A.PUMMELL
Checked by: J.HALL
Reviewed by:
Approved by:

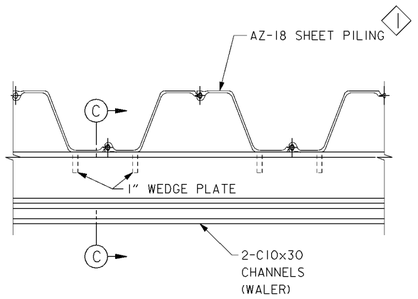
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CONRAIL EAST SHORING PLAN

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/5
FILENAME: a0appl01.dgn
PEN TABLE:
Sheet 1 of 1

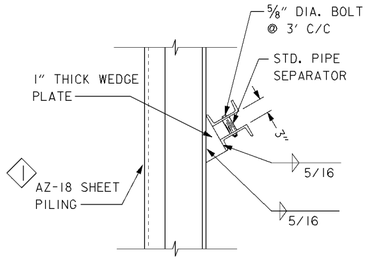
WORK AS CONSTRUCTED



NOTE: ANCHORS NOT SHOWN

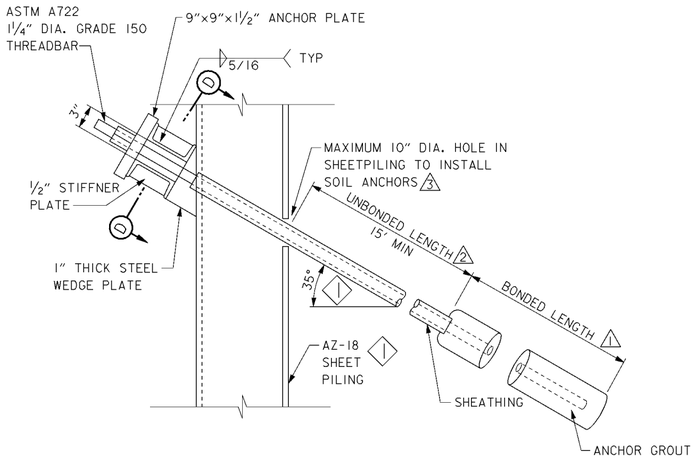
DETAIL 4

SCALE: 1" = 1'-0"



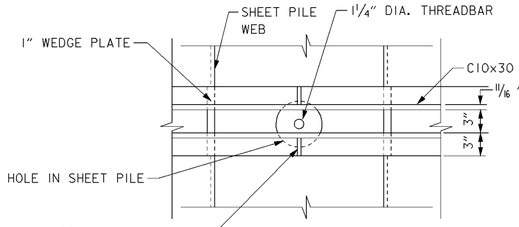
SECTION C-C

SCALE: 1" = 1'-0"



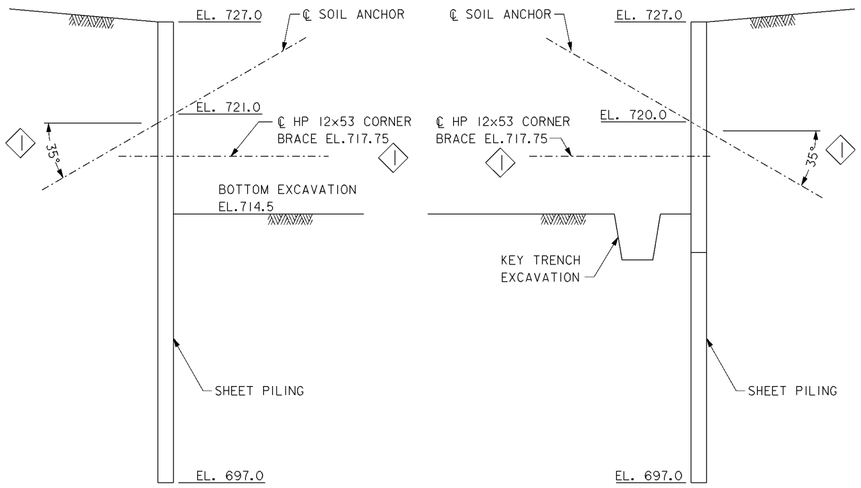
TYPICAL SOIL ANCHOR DETAIL

SCALE: 1½" = 1'-0"



SECTION D-D

SCALE: ¾" = 1'-0"



SECTION A-A

SCALE: ¼" = 1'-0"

SECTION B-B

SCALE: ¼" = 1'-0"

CODED NOTES

⚠1 SOIL ANCHOR BONDED LENGTH AND DIAMETER TO BE DETERMINED BY THE CONTRACTOR BASED ON PROPOSED METHODS OF INSTALLATION. ANCHOR BOND LENGTH SHALL SAFELY SUPPORT AN ANCHOR DESIGN LOAD OF 85 KIPS WITH A FACTOR OF SAFETY AGAINST PULLOUT OF 2.5. THE MINIMUM BOND LENGTH SHALL BE 20 FEET.

⚠2 VOID BETWEEN DRILL HOLE AND SHEATHING OF UNBONDED LENGTH SHALL BE FILLED WITH GROUT.

⚠3 SUBSEQUENT TO INSTALLATION OF SOIL ANCHORS AND ANCHOR TESTING A 3/8-INCH THICK STEEL PLATE WITH A SMALL HOLE FOR THE TENDON SHALL BE WELDED TO THE SHEET PILING TO PLUG THE HOLE IN THE SHEET PILING REQUIRED TO DRILL THE HOLES FOR THE SOIL ANCHORS. THE STEEL PLATE SHALL BE ESSENTIALLY SQUARE WITH MINIMUM DIMENSIONS 1 INCH GREATER THAN THE DIAMETER OF THE HOLE TO BE PLUGGED EXCEPT FOR NOTCHES CUT TO CLEAR THE PILING INTERLOCKS. THE PLATES SHALL BE INSTALLED AS SOON AS THE EXCAVATION REACHES A POINT WHERE THE WELDING CAN BE PERFOMED. A 5/16-INCH FILLET WELD SHALL BE USED ALONG THE ENTIRE PERIMETER OF THE PLATE.

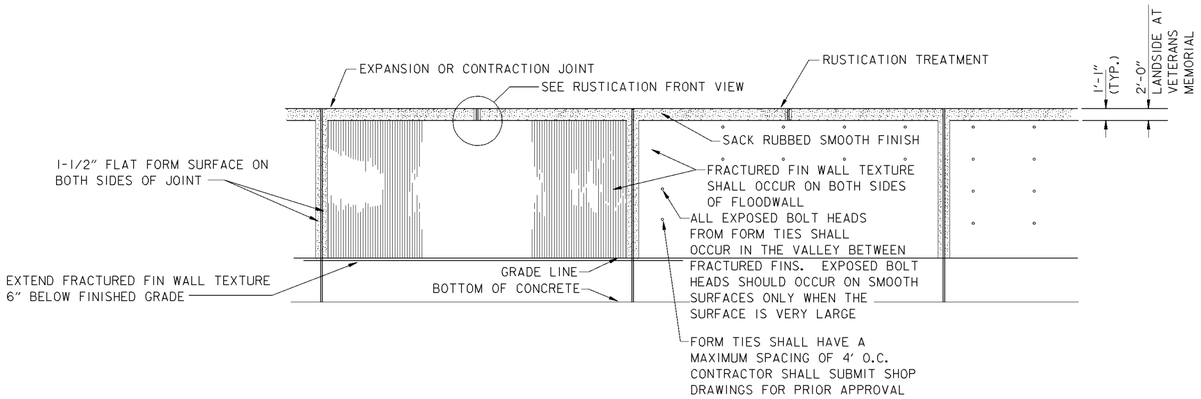
GENERAL NOTES

1. A TEMPORARY SURCHARGE TO ELEVATION 721.0 SHALL BE PLACED PRIOR TO DRIVING THE SHEET PILING. THE TEMPORARY SURCHARGE SHALL REMAIN IN PLACE UNTIL ALL SOIL ANCHORS HAVE BEEN INSTALLED AND TESTED.
2. SOIL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS, 1996 EDITION BY THE POST-TENSIONING INSTITUTE" (PTI).
3. SOIL ANCHOR DESIGN LOAD = 85 KIPS.
4. THE FIRST SOIL ANCHOR INSTALLED SHALL BE PERFORMANCE TESTED AND THE REMAINING SOIL ANCHORS SHALL BE PROOF TESTED. THE TEST PROCEDURES USED SHALL BE AS SET FORTH BY PTI RECOMMENDATIONS.
5. NO EXCAVATION BELOW ELEVATION 721 (EXCEPT FOR MINOR EXCAVATION TO DRILL SOIL ANCHOR) SHALL OCCUR UNTIL ALL SOIL ANCHORS FOR SHORING PARALLEL TO THE RAILROAD HAVE BEEN INSTALLED AND TESTED. THE TWO END ANCHORS SHALL BE INSTALLED AND TESTED PRIOR TO EXCAVATION BELOW ELEVATION 720.
6. HP 12x53 CORNER BRACE SHALL BE INSTALLED PRIOR TO EXCAVATION FOR KEY TRENCH.
7. ⚠1 ALL SHORING AZ-18 SHEET PILING SHALL BE CUT OFF 1-FOOT BELOW FINISHED GRADE AND REMAIN IN PLACE.
8. SOIL ANCHORS TO REMAIN IN PLACE.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

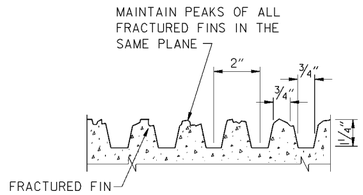
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: V.AMATO Drawn by: A.PUMMELL Checked by: J.HALL Reviewed by: Approved by:	US Army Corps of Engineers SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID **CONRAIL EAST SHORING DETAILS** Scale: AS SHOWN Date: MARCH 1998 Drawing Code: 16-PWC-10- Sheet reference number: 20.1/6 FILENAME: a0apdt01.dgn PEN TABLE: Sheet 1 of 1

WORK AS CONSTRUCTED



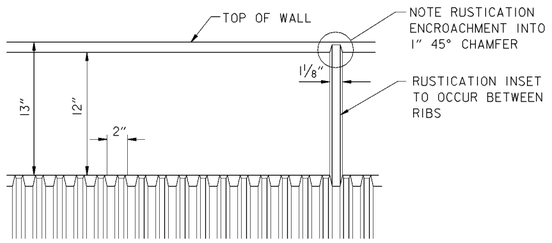
TYPICAL WALL TEXTURE AND GRAPHICS

SCALE: NONE



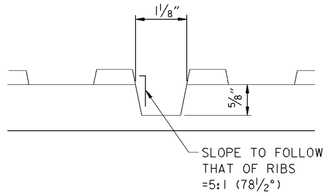
TYPICAL FRACTURED FIN WALL TEXTURE

SCALE: 3/8" = 1'-0"



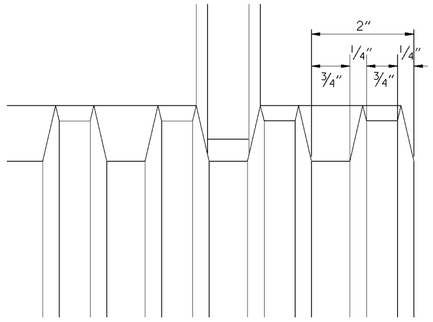
RUSTICATION TREATMENT–FRONT VIEW

SCALE: NONE



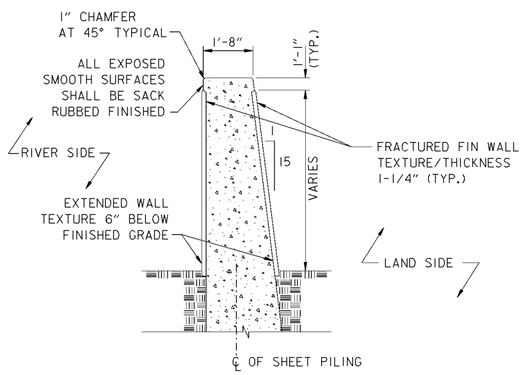
RUSTICATION TREATMENT–TOP VIEW

SCALE: NONE



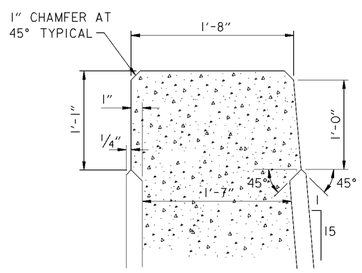
FIN/CAP JUNCTION DETAIL

SCALE: NONE



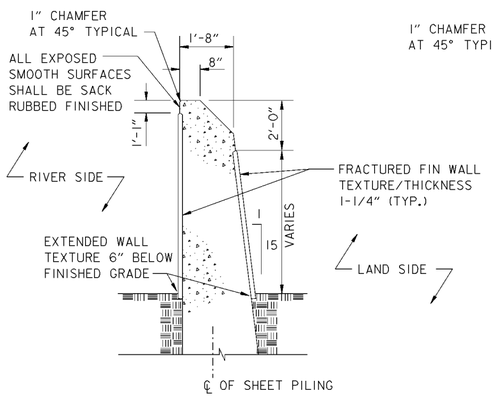
TYPICAL FLOODWALL SECTION

STA. 190+13.48 TO 190+70.91
STA. 192+11.91 TO 192+63.59
STA. 193+00.93 TO 193+13.70
SCALE: NONE



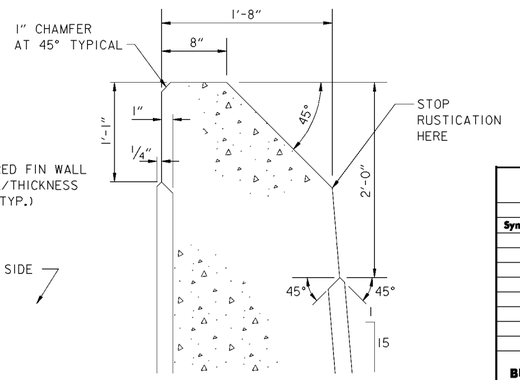
TYPICAL CAP DETAIL

STA. 190+13.48 TO 190+70.91
STA. 192+11.91 TO 192+63.59
STA. 193+00.93 TO 193+13.70
SCALE: NONE



TYPICAL FLOODWALL SECTION AT VETERANS MEMORIAL

STA. 155+86.03 TO 159+08.31
STA. 162+23.60 TO 163+43.55
SCALE: NONE



TYPICAL CAP DETAIL AT VETERANS MEMORIAL

STA. 155+86.03 TO 159+08.31
STA. 162+23.60 TO 163+43.55
SCALE: NONE

NOTES

1. WALL TEXTURE AND CAP FEATURES START AT AND EXTEND BEYOND THE STRUCTURAL DIMENSIONS SHOWN ON DRAWINGS 20.1/8 THRU 20.1/11. WALL TEXTURE SHALL NOT ENCROACH ON CONCRETE COVER OF REINFORCEMENT.
2. RUSTICATION TREATMENTS SHOULD OCCUR AT THE CENTER POINTS OF EVERY WALL MONOLITH. WHERE CORNERS ARE MORE THAN 16-1/2' FROM A TYPE "A" JOINT, THEN A RUSTICATION TREATMENT SHOULD OCCUR. IF A CORNER IS LESS THAN 16-1/2' FROM A TYPE "A" JOINT, THEN A RUSTICATION IS NOT NEEDED.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: COE
Drawn by: A.PUMMELL
Checked by: P.CONROY
Reviewed by:
Approved by:

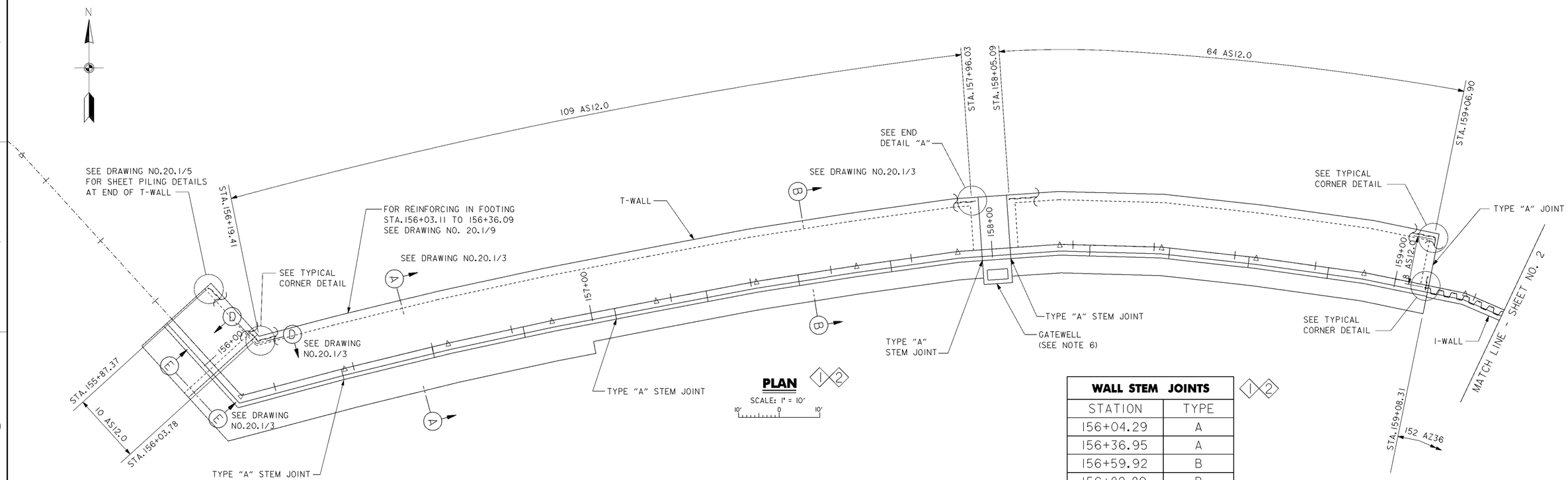
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

FLOODWALL TEXTURE DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/7
FILENAME: 00wid01.dgn
PRN TABLE:
Sheet 1 of 1

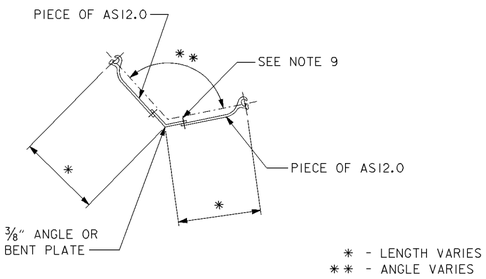
WORK AS CONSTRUCTED



PLAN ⟨1⟩⟨2⟩

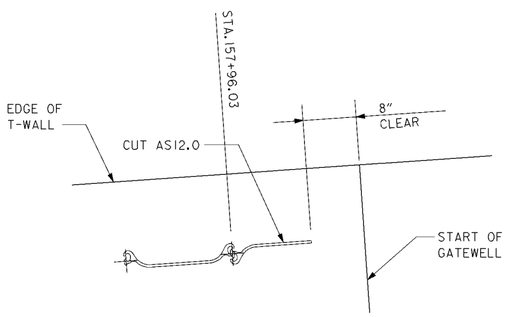
SCALE: 1" = 10'

WALL STEM JOINTS ⟨1⟩⟨2⟩	
STATION	TYPE
156+04.29	A
156+36.95	A
156+59.92	B
156+82.89	B
157+05.86	A
157+28.83	B
157+51.80	B
157+74.77	B
157+97.48	A
158+04.48	A
158+24.17	B
158+43.86	B
158+63.55	B
158+83.24	B
159+08.31	A



TYPICAL CORNER SHEET PILE ⟨2⟩

SCALE: NONE



END DETAIL "A" ⟨2⟩

SCALE: NONE

NOTES

1. TYPE "A" JOINTS ARE REQUIRED AT THE ENDS OF CORNER MONOLITHS AND WHERE SHOWN.
2. FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE THIS DRAWING.
3. FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/1.
4. ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
5. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/1.
6. FOR SEEPAGE CONTROL AND SHEET PILE LAYOUT AT GATEWELL SEE DRAWING NO. 15/5.
7. FOR CONRAIL EAST SHEET PILE CUTOFF WALL SEE DRAWING NO. 20.2/3.
8. FOR CORNER MONOLITH REINFORCING SEE DRAWING NO.20.1/1.
9. BOLT ANGLE OR BENT PLATE TO SHEET PILING USING 7/8"ø A325 BOLTS @ 6" O.C. AND @ 3" O.C. @ TOP AND BOTTOM 2'-0".
10. ⟨1⟩ FOR TYPICAL FOOTING CONSTRUCTION JOINT SEE DRAWING NO.20.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
⟨2⟩	REVISED AS CONSTRUCTED	7/02	P.O.C.
⟨1⟩	REV. BY CHANGE REQUEST MC007	3/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: J.HALL
Reviewed by:
Approved by:

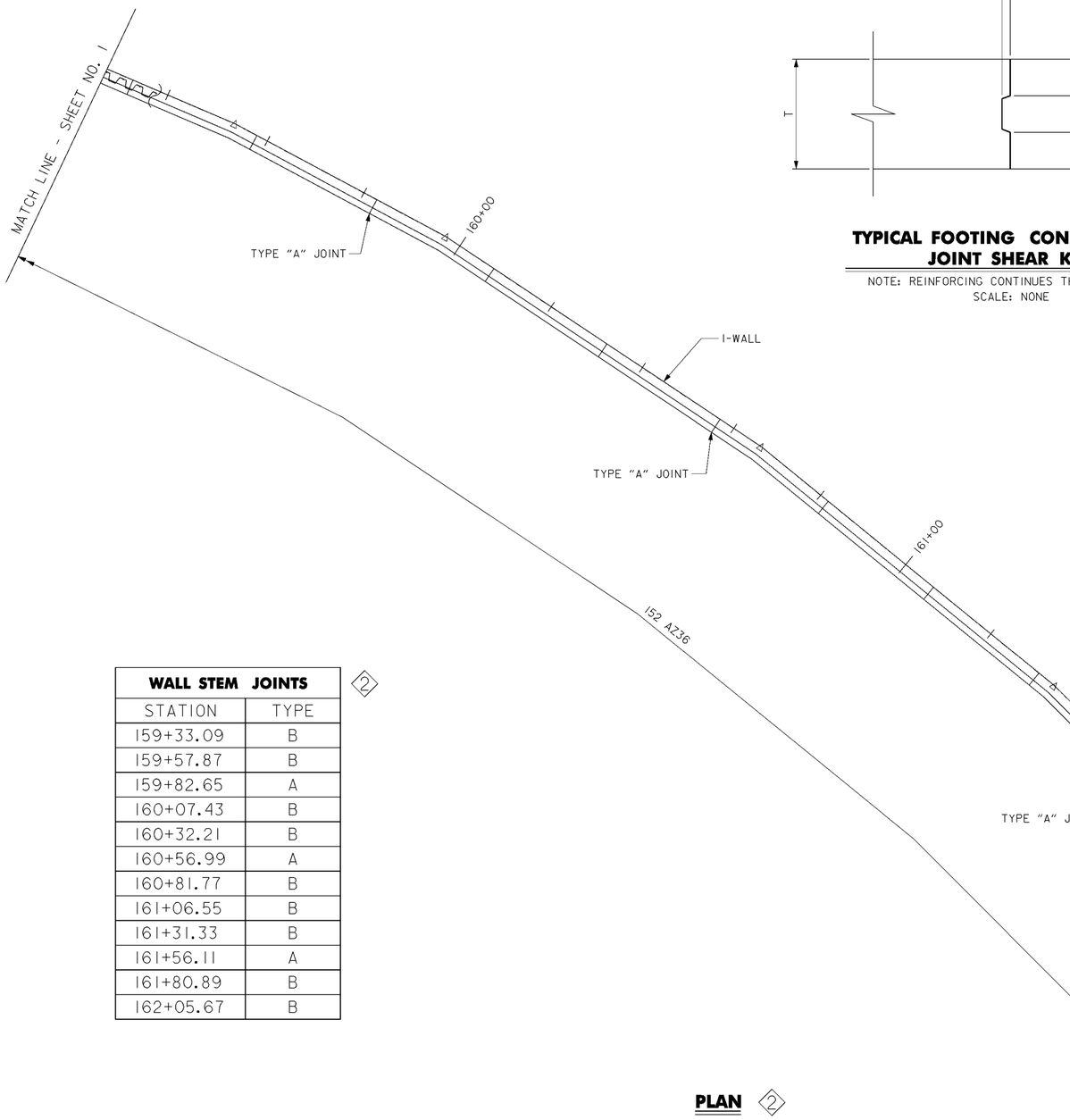
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

FLOODWALL PLAN
STA.155+00 TO 159+24

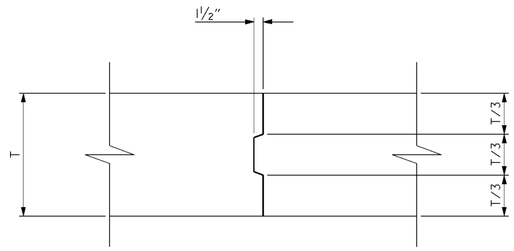
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.18
FILENAME: a0appa01.dgn
PEN TABLE:
Sheet 1 of 6

WORK AS CONSTRUCTED



PLAN ◇2

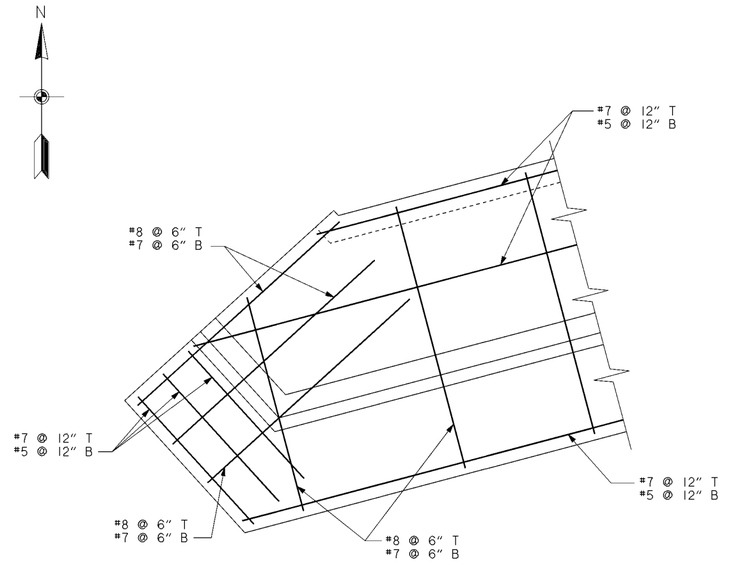
SCALE: 1" = 10'
10' 0 10'



TYPICAL FOOTING CONSTRUCTION JOINT SHEAR KEY ◇1

NOTE: REINFORCING CONTINUES THROUGH JOINT.
SCALE: NONE

WALL STEM JOINTS ◇2	
STATION	TYPE
159+33.09	B
159+57.87	B
159+82.65	A
160+07.43	B
160+32.21	B
160+56.99	A
160+81.77	B
161+06.55	B
161+31.33	B
161+56.11	A
161+80.89	B
162+05.67	B



REINFORCING PLAN ◇1

TAKEN AT EL.712.4
T-WALL FOOTING STA.156+03.11 TO 156+36.09
SCALE: 1" = 5'
5' 0 5'

NOTES

1. TYPE "A" JOINTS ARE REQUIRED AT ENDS OF CORNER MONOLITHS AND WHERE SHOWN.
2. FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE THIS DRAWING.
3. FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/1.
4. ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
5. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/1.
6. FOR CORNER MONOLITH REINFORCING SEE DRAWING NO.20.1/1.

Revisions			
Symbol	Descriptions	Date	Approved
◇2	REVISED AS CONSTRUCTED	7/02	P.O.C.
◇1	REV. BY CHANGE REQUEST MC007	3/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: J.HALL
Reviewed by:
Approved by:

US Army Corps of Engineers

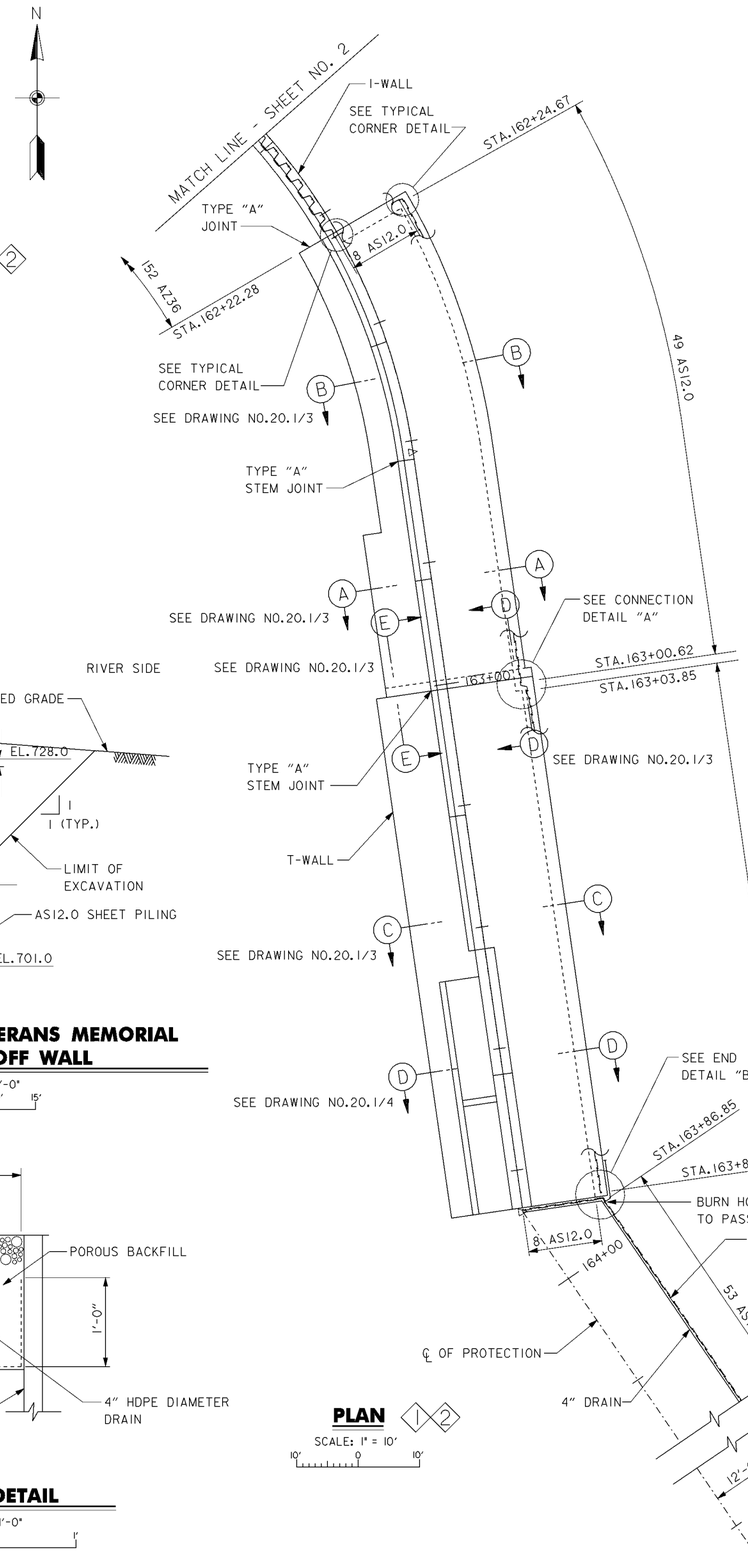
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

FLOODWALL PLAN
STA.159+24 TO 162+00

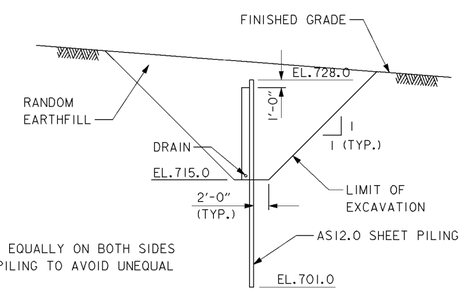
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/9
FILENAME: a0appa02.dgn
PEN TABLE:
Sheet 2 of 6

WORK AS CONSTRUCTED

WALL STEM JOINTS	
STATION	TYPE
162+23.63	A
162+43.32	B
162+63.01	A
162+82.70	B
163+00.27	A
163+21.55	B
163+42.88	B
163+64.21	B
163+86.17	B

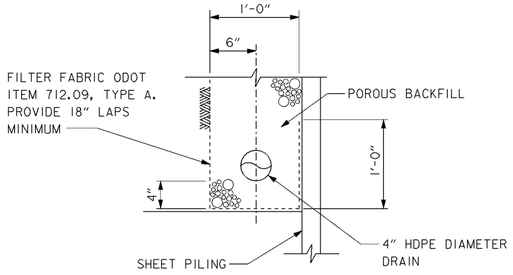


PLAN
SCALE: 1" = 10'

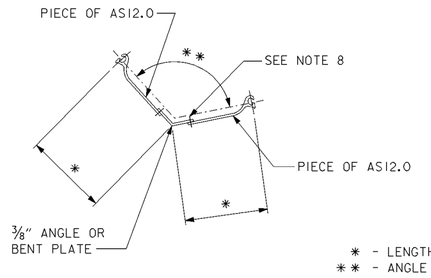


NOTE:
PLACE FILL EQUALLY ON BOTH SIDES OF SHEET PILING TO AVOID UNEQUAL LOADING.

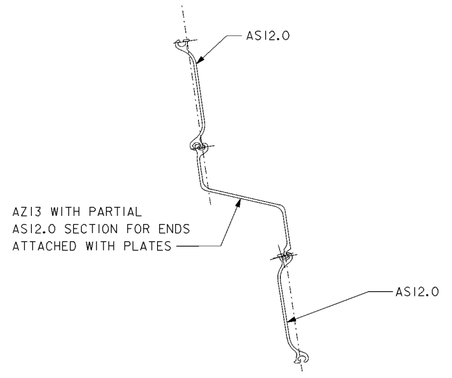
TYPICAL SECTION VETERANS MEMORIAL SEEPAGE CUTOFF WALL
SCALE: 1/8" = 1'-0"



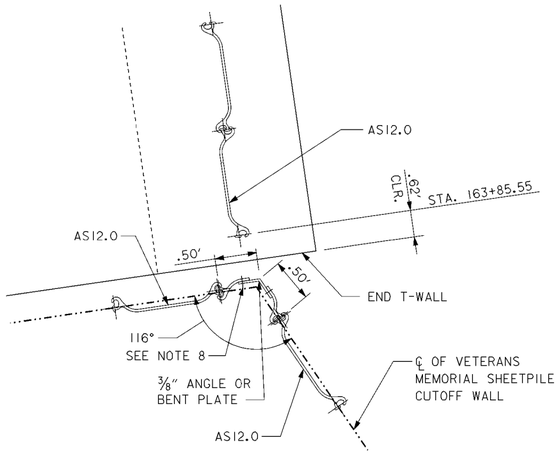
DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"



TYPICAL CORNER SHEET PILE
SCALE: NONE



CONNECTION DETAIL "A"
SCALE: NONE



END DETAIL "B"
SCALE: NONE

NOTES
1. TYPE "A" JOINTS ARE REQUIRED AT ENDS OF CORNER MONOLITHS AND WHERE SHOWN.
2. FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE THIS DRAWING.
3. FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/1.
4. ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
5. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/1.
6. FOR CORNER MONOLITH REINFORCING SEE DRAWING NO.20.1/1.
7. BEND HORIZONTAL REINFORCING TO MATCH RADIUS OF WALL.
8. BOLT ANGLE OR BENT PLATE TO SHEET PILING USING 7/8"ø A325 BOLTS @ 6" O.C. AND @ 3" O.C. @ TOP AND BOTTOM 2'-0".
1. FOR TYPICAL FOOTING CONSTRUCTION JOINT SEE DRAWING NO.20.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REV. BY CHANGE REQUEST MCOOT	3/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

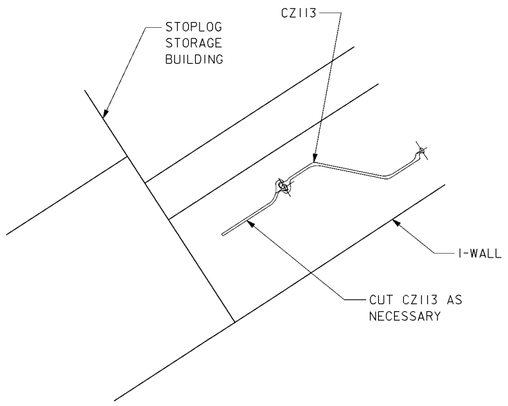
Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: J.HALL
Reviewed by:
Approved by:

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

FLOODWALL PLAN
STA.162+00 TO 164+40

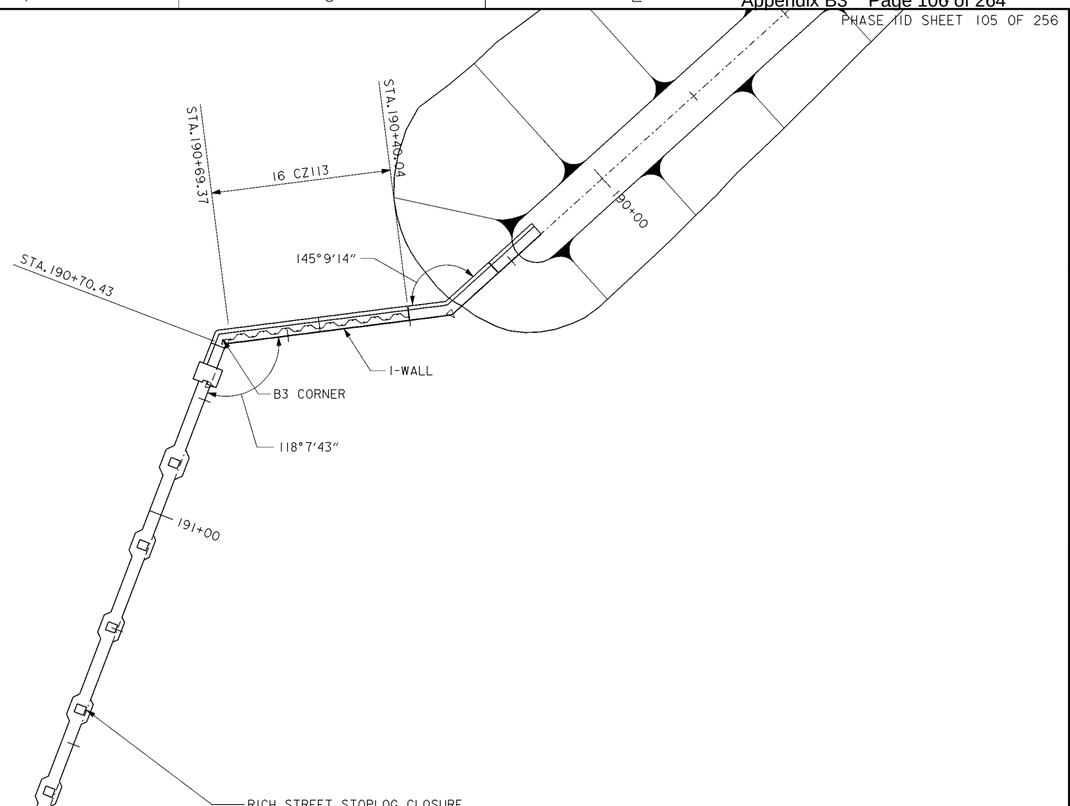
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/10
FILENAME: PIN TABLE: a0appa03.dgn
Sheet 3 of 6

WORK AS CONSTRUCTED

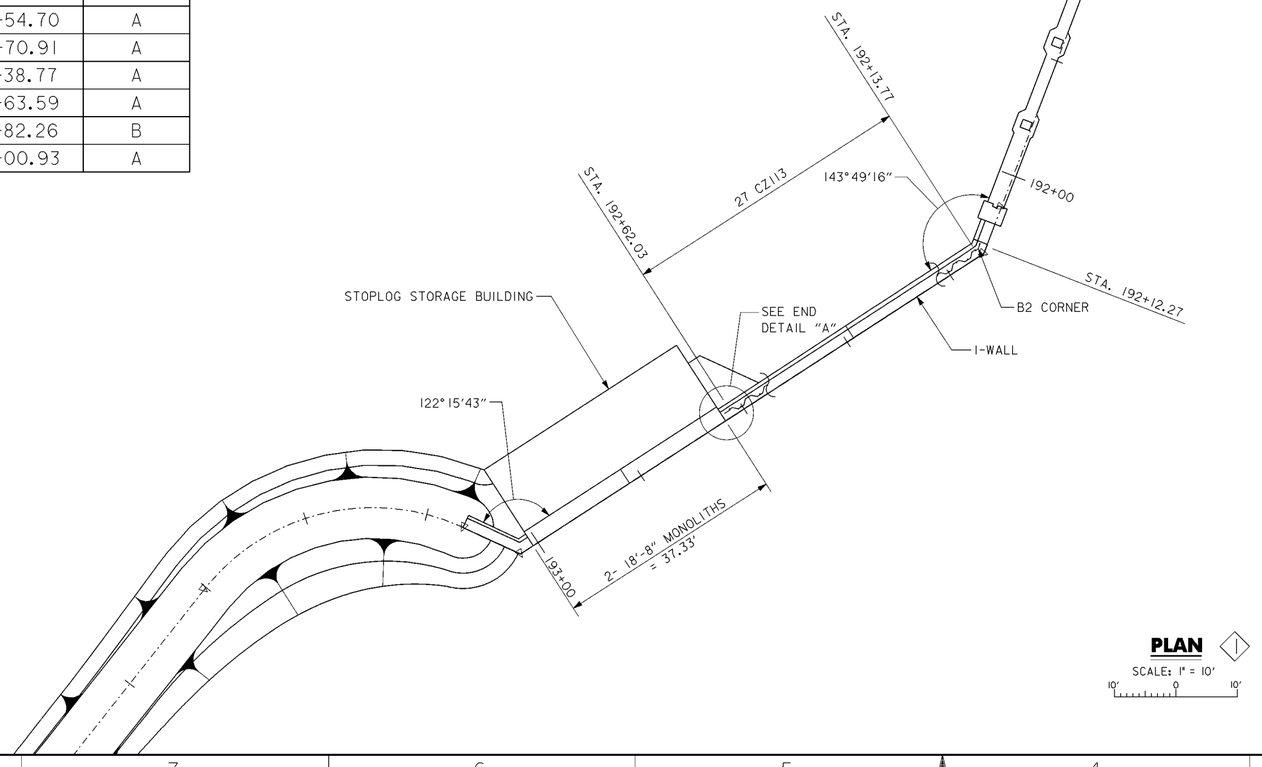


END DETAIL "A" ◇1

SCALE: NONE



WALL STEM JOINTS ◇1	
STATION	TYPE
190+22.90	A
190+40.04	A
190+54.70	A
190+70.91	A
192+38.77	A
192+63.59	A
192+82.26	B
193+00.93	A



PLAN ◇1

SCALE: 1" = 10'

10' 0 10'

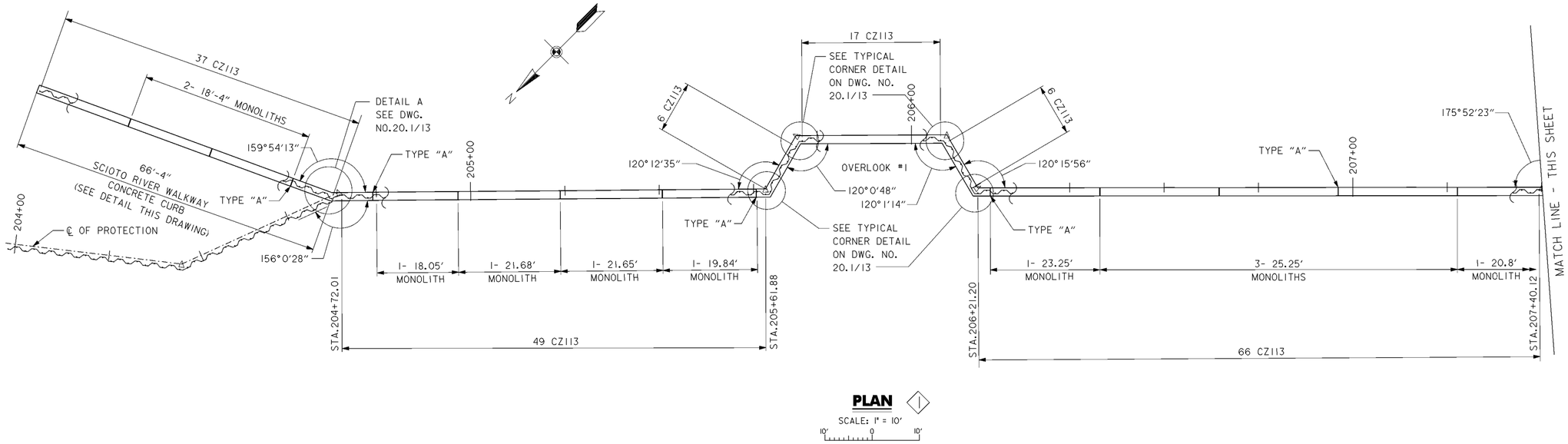
NOTES

1. TYPE "A" JOINTS ARE REQUIRED AT ENDS OF CORNER MONOLITHS EXCEPT WHERE SHOWN.
2. FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE THIS DRAWING.
3. FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/1.
4. ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
5. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/1.
6. FOR RICH STREET STOPLOG CLOSURE SEE DRAWING NO. 20.2/7.
7. FOR CORNER MONOLITH REINFORCING SEE DRAWING NO.20.1/1.
8. FOR STOPLOG STORAGE BUILDING SEE DRAWING NOS. 20.2/15 THRU 20.2/17.
9. BOLT BENT PLATE TO SHEET PILING USING 7/8"ø A325 BOLTS @ 6" O.C. AND @ 3" O.C. @ TOP AND BOTTOM 2'-0".

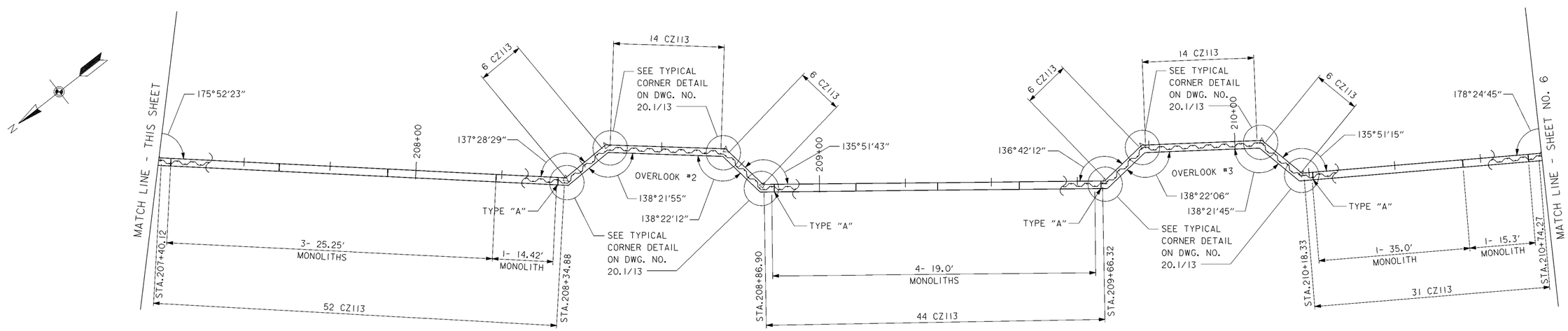
Revisions			
Symbol	Descriptions	Date	Approved
◇1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P.CONROY	US Army Corps of Engineers
Drawn by: T.MULLINS	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Checked by: J.HALL	**I-WALL PLAN STA.189+60 TO 194+00**
Reviewed by:	Scale: AS SHOWN
Approved by:	Date: MARCH 1998
	Drawing Code: 16-PWC-10-
	Sheet reference number: 20.1/11
	FILENAME: a0appa04.dgn PEN TABLE:
	Sheet 4 of 6

WORK AS CONSTRUCTED



PLAN
SCALE: 1" = 10'



PLAN
SCALE: 1" = 10'

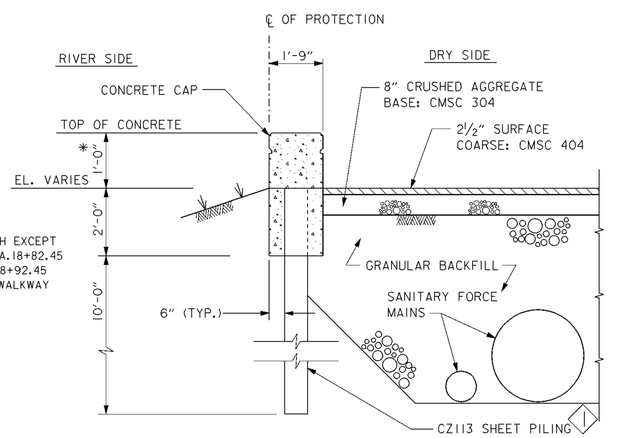
WALL JOINTS	
STATION	TYPE
204+79.28	A
204+97.33	B
205+19.01	B
205+40.66	B
205+60.50	A
206+23.16	A
206+46.41	B
206+71.66	B
206+96.91	A
207+22.16	B
207+42.96	B
207+68.21	B

WALL JOINTS	
STATION	TYPE
207+93.46	B
208+18.71	B
208+33.13	A
208+89.50	A
209+08.50	B
209+27.50	B
209+46.50	B
209+65.50	A
210+20.83	A
210+55.83	B
210+71.13	B

NOTES

1. TYPE "A" JOINTS ARE REQUIRED AT THE ENDS OF CORNER MONOLITHS AND WHERE SHOWN.
2. FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE THIS DRAWING.
3. FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/1.
4. ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
5. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/1.
6. FOR CORNER MONOLITH REINFORCING SEE DRAWING NO.20.1/1.
7. FOR SCIOTO RIVER WALKWAY CONCRETE CURB JOINT LOCATIONS SEE PLAN THIS DRAWING.

* HEIGHT ABOVE PATH EXCEPT FROM 0'-6" AT STA.18+82.45 TO 1'-0" AT STA.18+92.45 OF SCIOTO RIVER WALKWAY



TYPICAL CONCRETE CURB SCIOTO RIVER WALKWAY
SCALE: ½" = 1'-0"

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: J.HALL
Reviewed by:
Approved by:

US Army Corps of Engineers

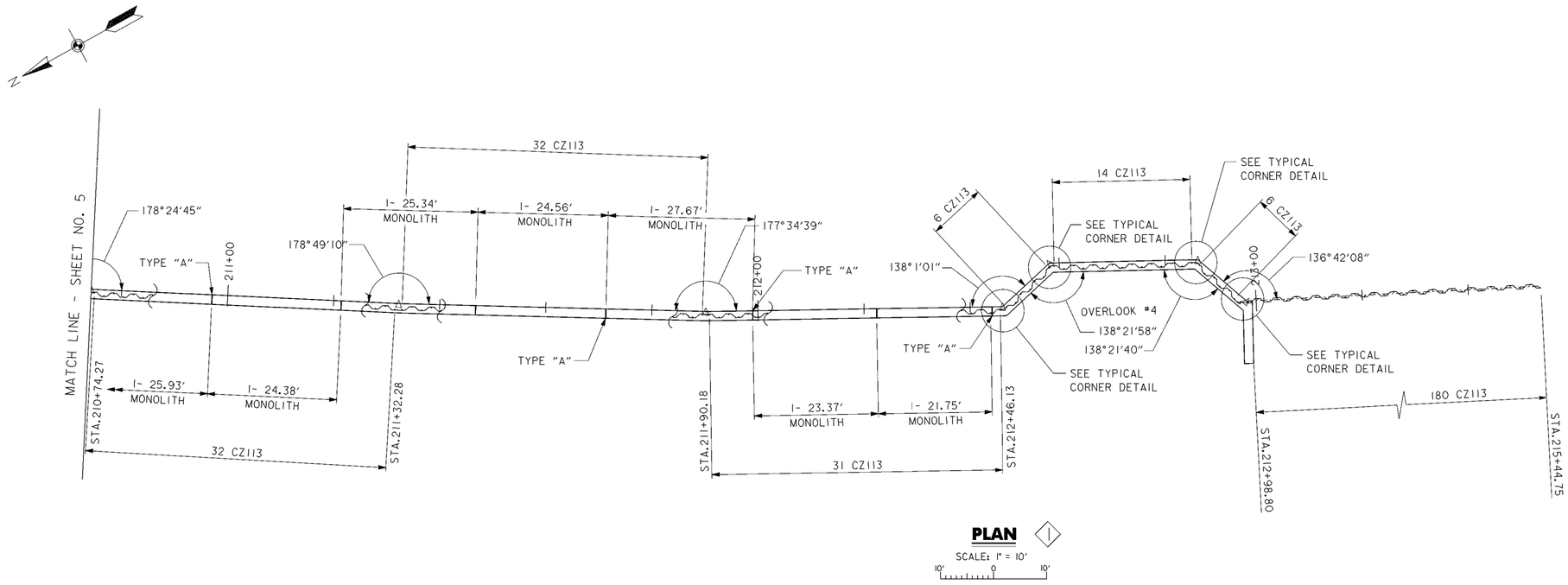
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

I-WALL PLAN
STA.204+60 TO 210+75

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/12
FILENAME: a0appa05.dgn
PEN TABLE:
Sheet 5 of 6

WORK AS CONSTRUCTED

WALL JOINTS	
STATION	TYPE
210+97.06	A
211+21.44	B
211+46.78	B
211+71.34	A
211+99.01	A
212+22.38	B
212+44.13	A
212+98.80	B



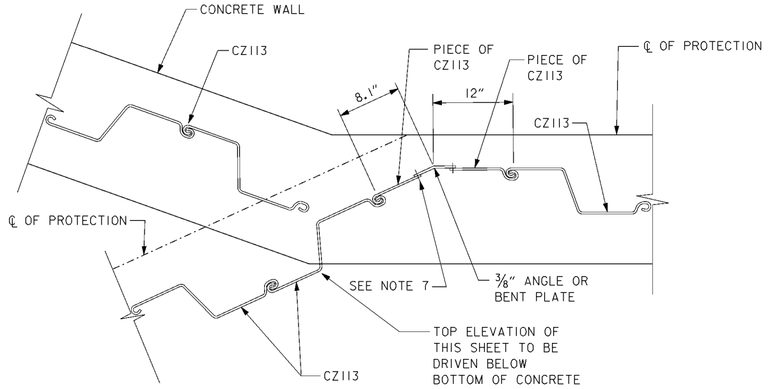
PLAN ⟨1⟩

SCALE: 1" = 10'

10' 0 10'

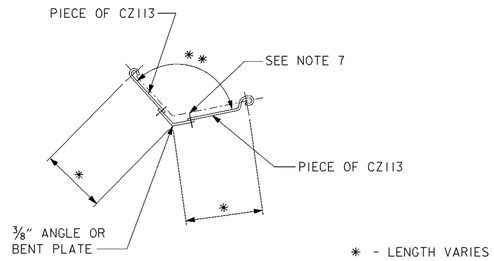
NOTES

1. TYPE "A" JOINTS ARE REQUIRED AT THE ENDS OF CORNER MONOLITHS AND WHERE SHOWN.
2. FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE THIS DRAWING.
3. FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/1.
4. ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
5. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/1.
6. FOR CORNER MONOLITH REINFORCING SEE DRAWING NO.20.1/1.
7. BOLT ANGLE OR BENT PLATE TO SHEET PILING USING 7/8"ø A325 BOLTS @ 6" O.C.



CORNER DETAIL "A" ⟨1⟩

SCALE: NONE



TYPICAL CORNER SHEET PILE ⟨1⟩

SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved
⟨1⟩	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: J.HALL
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

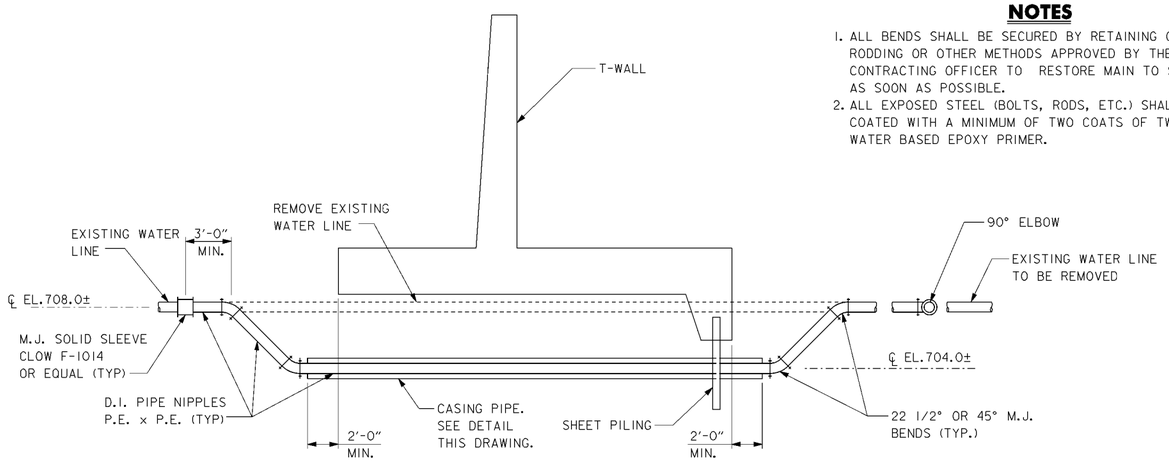
I-WALL PLAN
STA.210+75 TO 213+50

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/13
FILENAME: a0appa06.dgn
PEN TABLE:
Sheet 6 of 6

WORK AS CONSTRUCTED

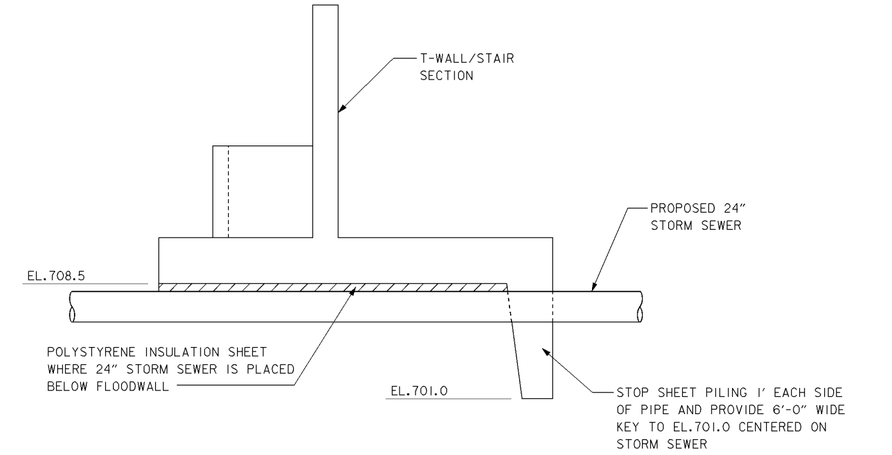
NOTES

1. ALL BENDS SHALL BE SECURED BY RETAINING GLANDS, RODDING OR OTHER METHODS APPROVED BY THE CONTRACTING OFFICER TO RESTORE MAIN TO SERVICE AS SOON AS POSSIBLE.
2. ALL EXPOSED STEEL (BOLTS, RODS, ETC.) SHALL BE COATED WITH A MINIMUM OF TWO COATS OF TWO PART WATER BASED EPOXY PRIMER.



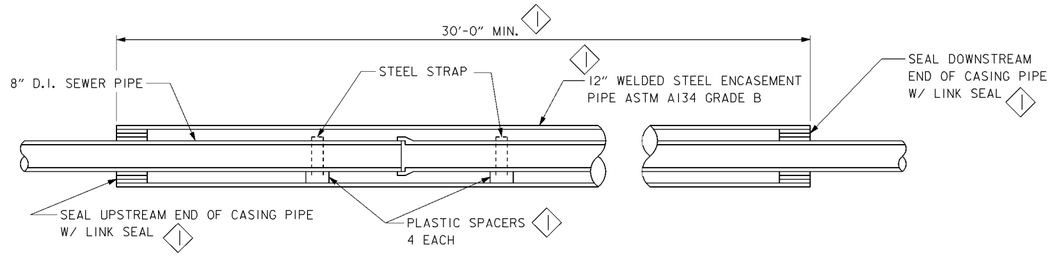
WATER LINE RELOCATION ELEVATION

SCALE: 1/4" = 1'-0"



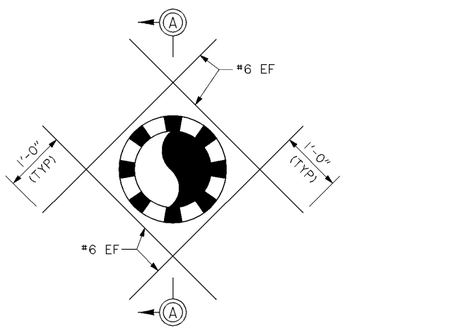
24" STORM SEWER (NCB#1 TO NMH#8) ELEVATION

SCALE: 1/4" = 1'-0"

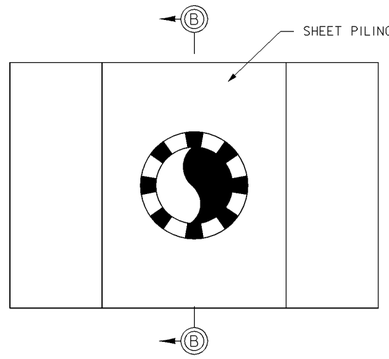


TYPICAL CASING PIPE DETAIL

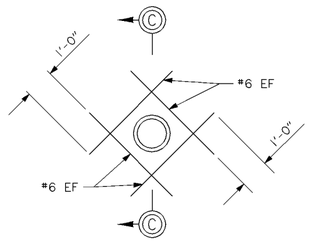
SCALE: 3/4" = 1'-0"



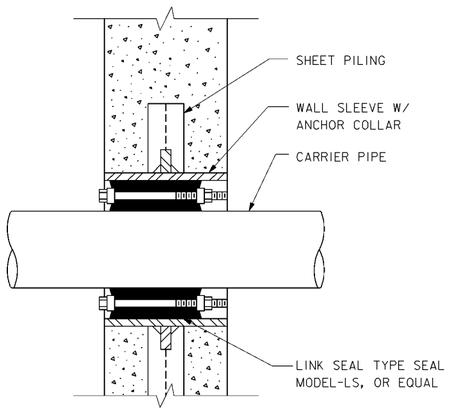
ELEVATION



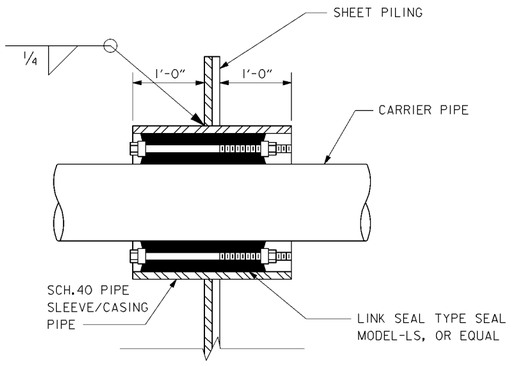
ELEVATION



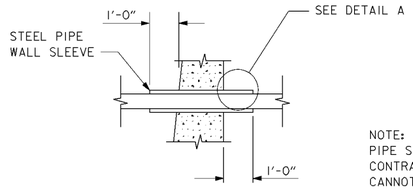
ELEVATION



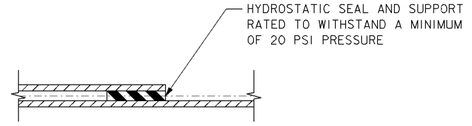
SECTION A-A



SECTION B-B



SECTION C-C



DETAIL A

SCALE: NONE

NOTE:
PIPE SLEEVES TO BE FURNISHED AND INSTALLED BY CONTRACTOR. SPLIT SLEEVES TO BE USED WHEN PIPE CANNOT BE BY-PASSED. SPLIT SLEEVES TO BE CONTINUALLY WELDED FOR WATER TIGHTNESS.

TYPICAL PIPE THROUGH FLOODWALL

SCALE: NONE

TYPICAL PIPE THROUGH SHEET PILING

SCALE: NONE

METHOD OF PASSING UTILITY PIPE THROUGH GATE SILL

SCALE: 1/2" = 1'-0"

PIPE	WALL SLEEVE SIZE
4"	8"
8"	12"
12"	16"

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

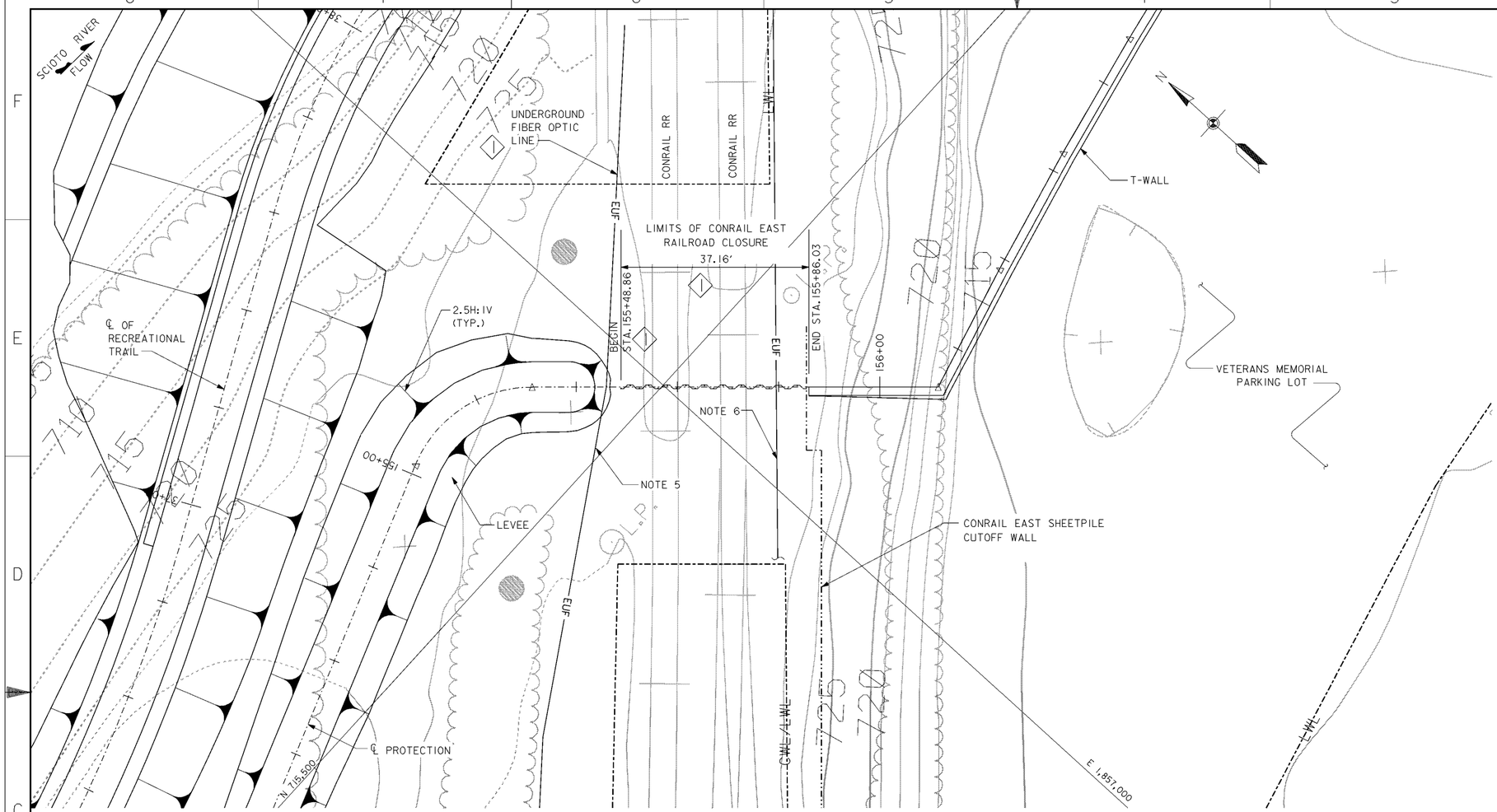
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MISCELLANEOUS DETAILS

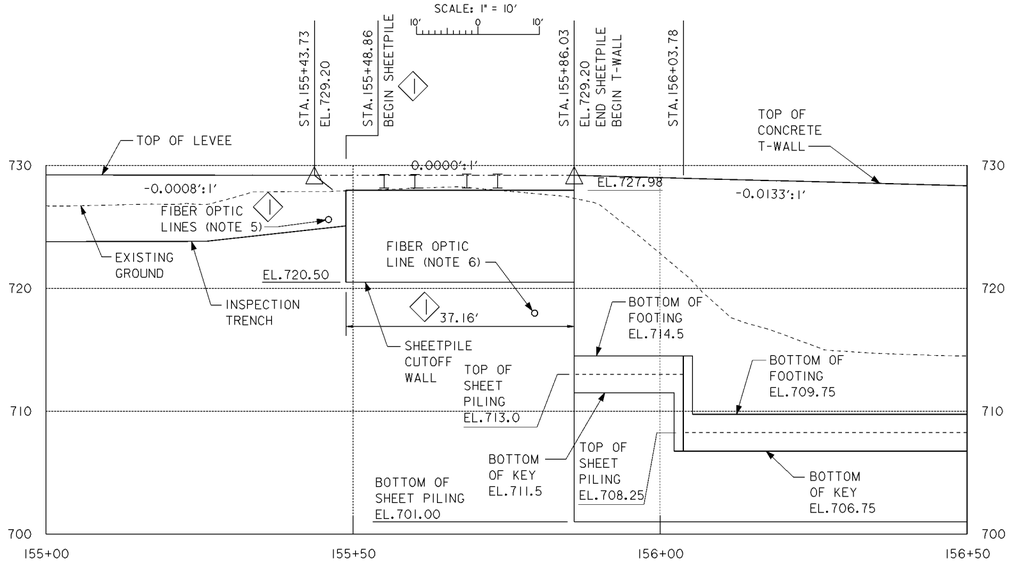
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.1/14
FILENAME: a0u2d101.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 10'



PROFILE

SCALE IN FEET

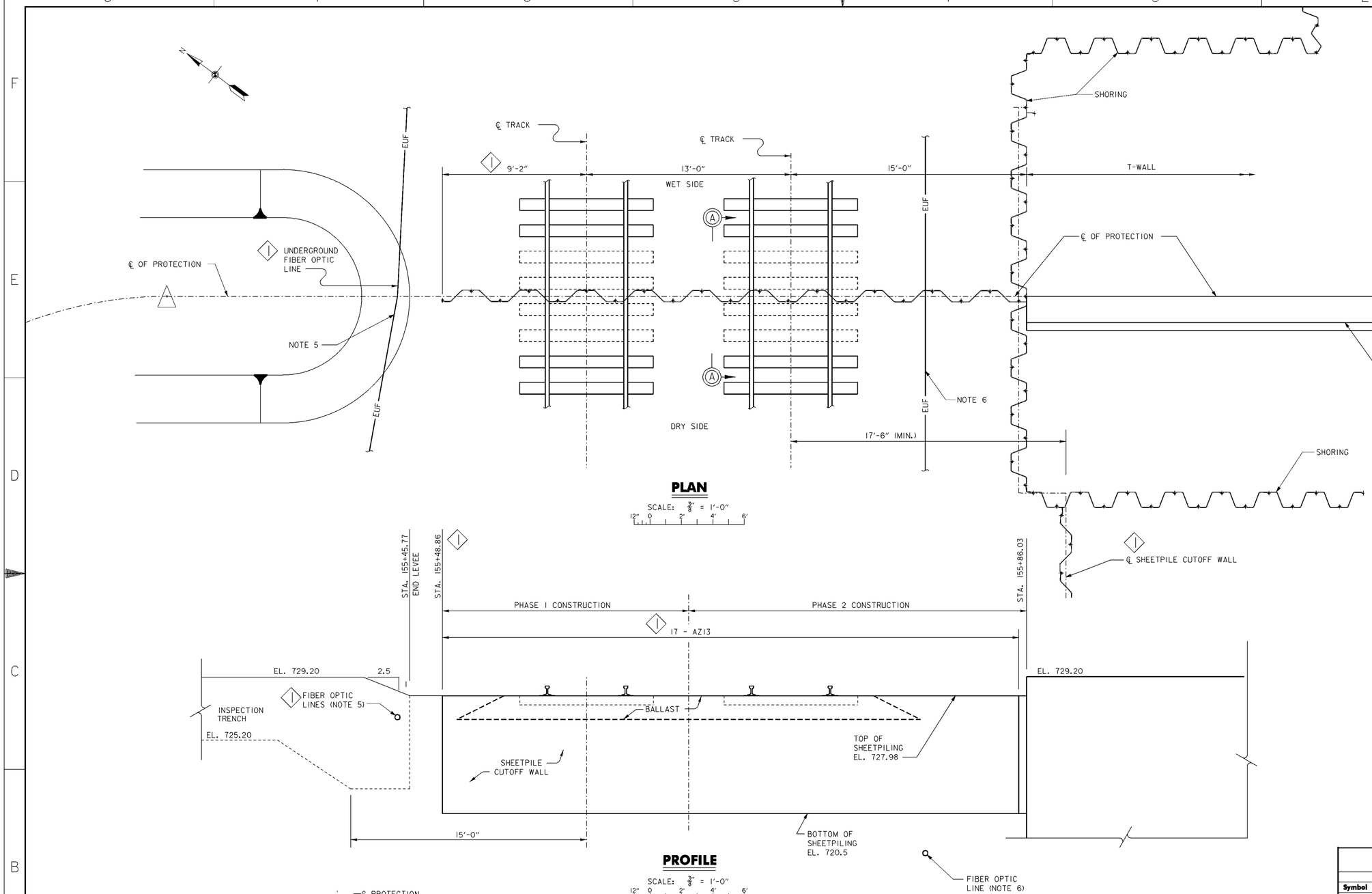
NOTES

1. FOR CONRAIL EAST SHORING PLAN SEE DRAWING NO.20.1/5.
2. FOR CONRAIL EAST RAILROAD CLOSURE DETAILS SEE DRAWING NO.20.2/2.
3. FOR CONRAIL EAST SHEET PILE CUTOFF WALL SEE DRAWING NO.20.2/3.
4. AT ALL LOCATIONS WHERE PILING IS PROPOSED DIRECTLY BENEATH RAIL A NOTCH 18-INCHES WIDE BY 5-INCHES DEEP, CENTERED ON THE RAIL CENTERLINE, SHALL BE CUT FROM THE TOP OF THE PROPOSED PILING TO PREVENT SHUNTING ACROSS THE TRACK AND DISRUPTION OF THE RAILROAD'S SIGNAL.
5. MULTIPLE EXISTING FIBER OPTIC LINES (5 SPRINT, LCI, AT&T, WORLDCOM AND ONE UNKNOWN OWNER) LOCATED IN RAILROAD RIGHT-OF-WAY NORTH OF CONRAIL TRACKS. THE CONTRACTOR SHALL HAVE LINES LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION FOR THE INSPECTION TRENCH AND PLACEMENT OF EMBANKMENT.
6. O-WEST FIBER OPTIC LINE LOCATED IN RAILROAD RIGHT-OF-WAY SOUTH OF CONRAIL TRACKS. THE CONTRACTOR SHALL HAVE LINE LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION FOR THE INSPECTION TRENCH AND PLACEMENT OF EMBANKMENT.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: T.MULLINS	**CONRAIL EAST RR CLOSURE PLAN & PROFILE**
Checked by: P.CONROY	
Reviewed by:	Scale: AS SHOWN
Approved by:	Date: MARCH 1998
	Drawing Code: 16-PWC-10-
	Sheet reference number: 20.2/1
	FILENAME: PEN TABLE: a0g3pp01.dgn
	Sheet 1 of 1

WORK AS CONSTRUCTED

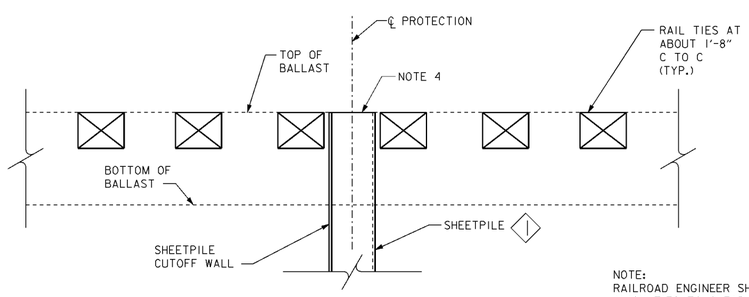


PLAN

SCALE: 3/8" = 1'-0"

PROFILE

SCALE: 3/8" = 1'-0"



SECTION A–A

SCALE: 1" = 1'-0"

NOTE:
RAILROAD ENGINEER SHALL ALIGN TIES TO CLEAR CUTOFF WALL.

SEQUENCE OF CONSTRUCTION

1. REMOVE ONE SET OF TRACKS FROM SERVICE.
2. REMOVE RAILS AND TIES ADJACENT CENTERLINE OF PROTECTION.
3. DRIVE SHEETPILING.
4. RESET TIES AND RAIL.
5. RESUME SERVICE TO TRACKS.
6. REMOVE OTHER TRACKS FROM SERVICE, PROCEED WITH INSTALLATION OF SHEETPILE, ETC. AS ABOVE.

NOTES

1. FOR CONRAIL EAST SHORING PLAN AND DETAILS SEE DRAWING NOS.20.1/5 AND 20.1/6.
2. FOR CONRAIL EAST RAILROAD SHEETPILE CUTOFF WALL DETAILS SEE DRAWING NO.20.2/3.
3. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO.20.2/9.
4. AT ALL LOCATIONS WHERE PILING IS DIRECTLY BENEATH RAIL A NOTCH 18-INCHES WIDE BY 5-INCHES DEEP CENTERED ON THE RAIL CENTERLINE, SHALL BE CUT FROM THE PROPOSED PILING TO PREVENT SHUNTING ACROSS THE TRACK AND DISRUPTION OF THE RAILROAD'S SIGNALS.
5. MULTIPLE EXISTING FIBER OPTIC LINES (5 SPRINT, LCI, AT&T, WORLDCOM AND ONE UNKNOWN OWNER) LOCATED IN RAILROAD RIGHT-OF-WAY NORTH OF CONRAIL TRACKS. THE CONTRACTOR SHALL HAVE LINES LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION FOR THE INSPECTION TRENCH AND PLACEMENT OF EMBANKMENT.
6. O-WEST FIBER OPTIC LINE LOCATED IN RAILROAD RIGHT-OF-WAY SOUTH OF CONRAIL TRACKS. THE CONTRACTOR SHALL HAVE LINE LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION FOR THE INSPECTION TRENCH AND PLACEMENT OF EMBANKMENT.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

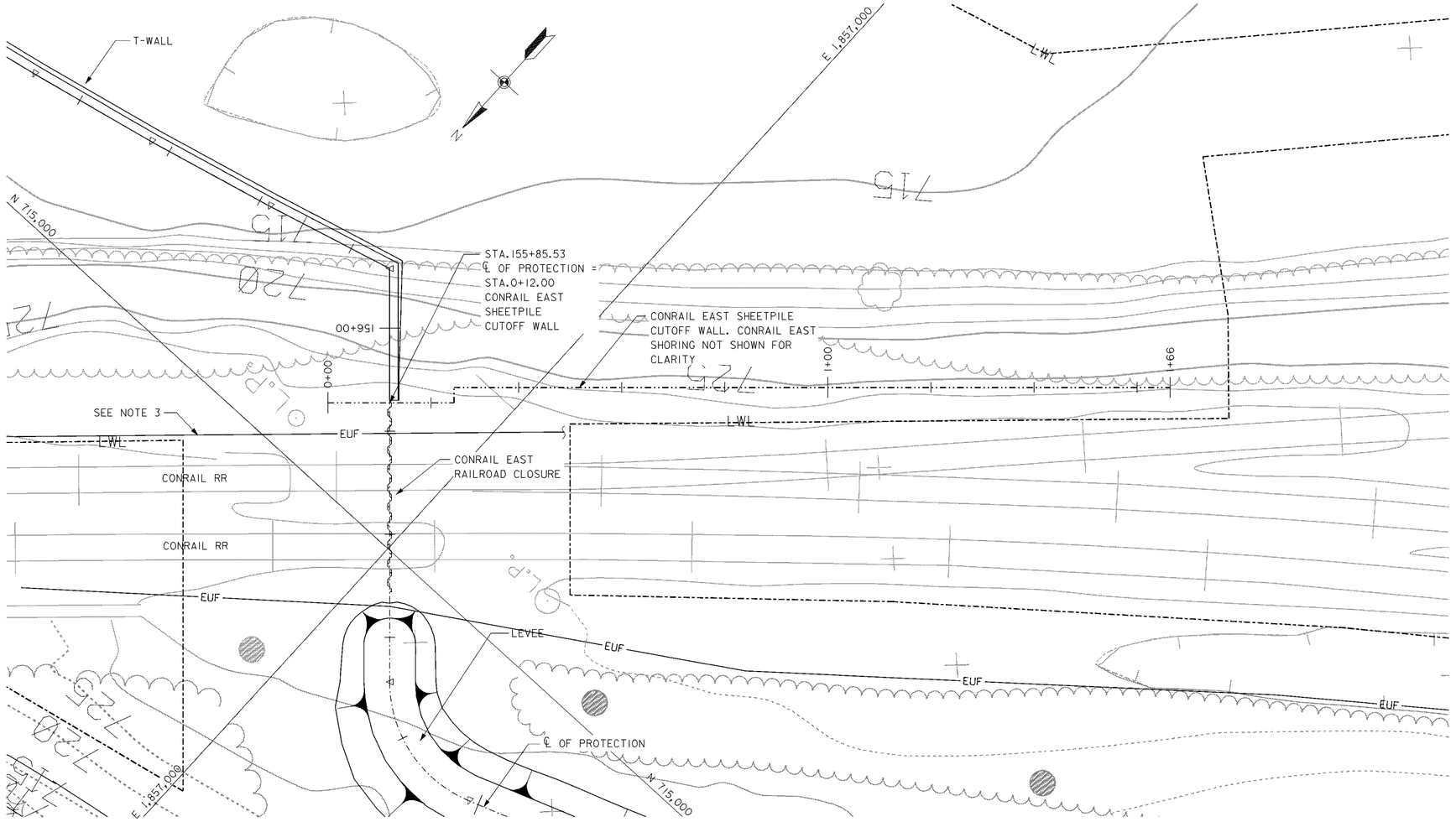
US Army Corps of Engineers

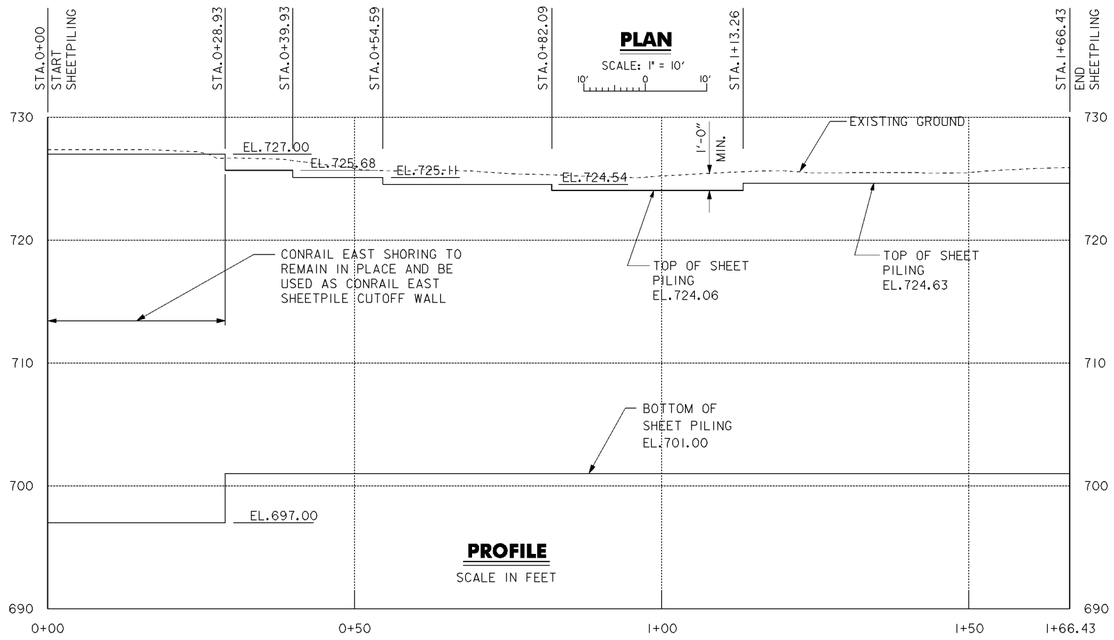
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CONRAIL EAST RR CLOSURE DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/2
FILENAME: PEN TABLE: a0g3pp02.dgn
Sheet 1 of 1

WORK AS CONSTRUCTED





NOTES

1. FOR CONRAIL EAST SHORING PLAN SEE DRAWING NO.20.1/5.
2. FOR CONRAIL EAST RAILROAD CLOSURE DETAILS SEE DRAWING NO.20.2/2.
3. O-WEST FIBER OPTIC LINE LOCATED IN RAILROAD RIGHT-OF-WAY SOUTH OF CONRAIL TRACKS. THE CONTRACTOR SHALL HAVE LINE LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION OR INSTALLATION OF PILING.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: V.AMATO
Reviewed by:
Approved by:

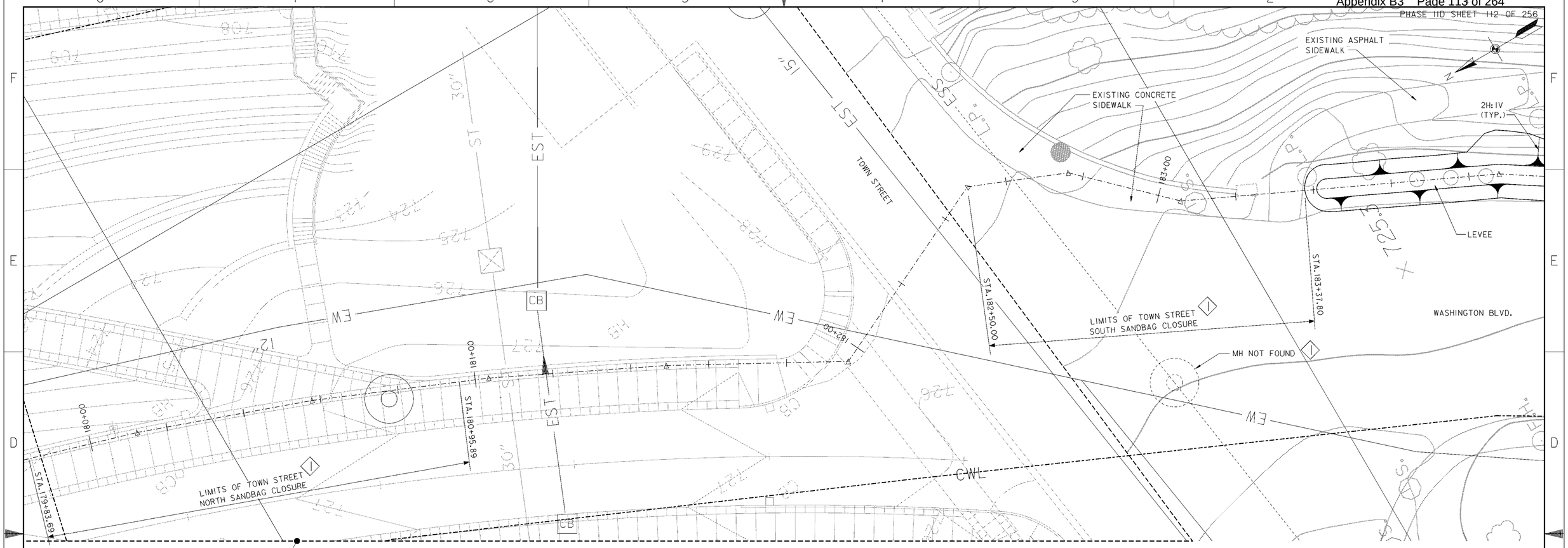
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CONRAIL EAST RR SHEETPILE CUTOFF WALL

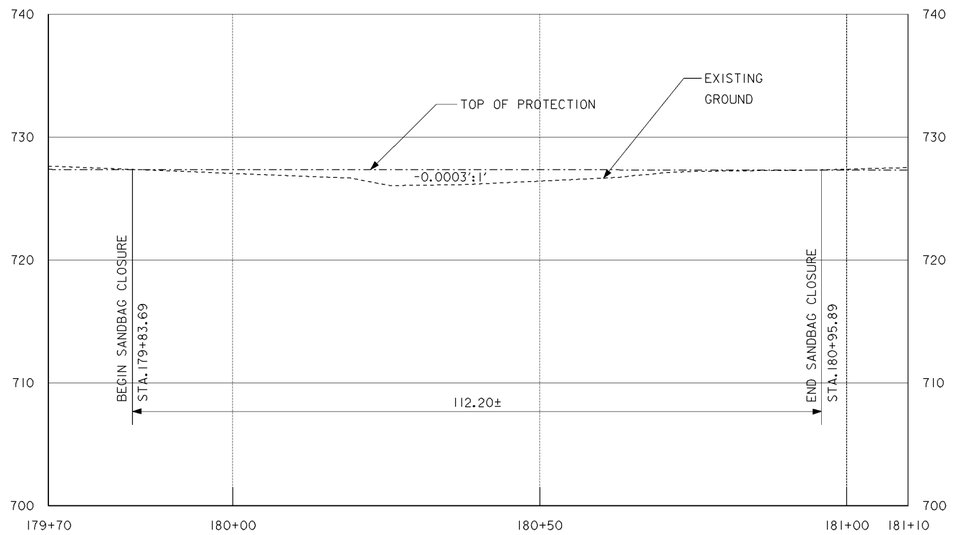
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference numbers: 20.2/3
FILENAME: PEN TABLE: 00eppp03.dgn
Sheet 1 of 1

WORK AS CONSTRUCTED



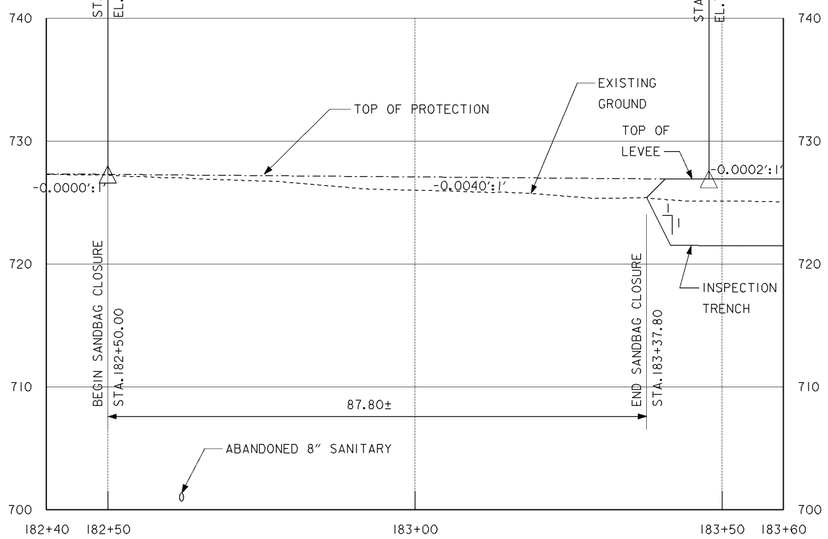
PLAN

SCALE: 1" = 10'



NORTH CLOSURE PROFILE

SCALE IN FEET



SOUTH CLOSURE PROFILE

SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

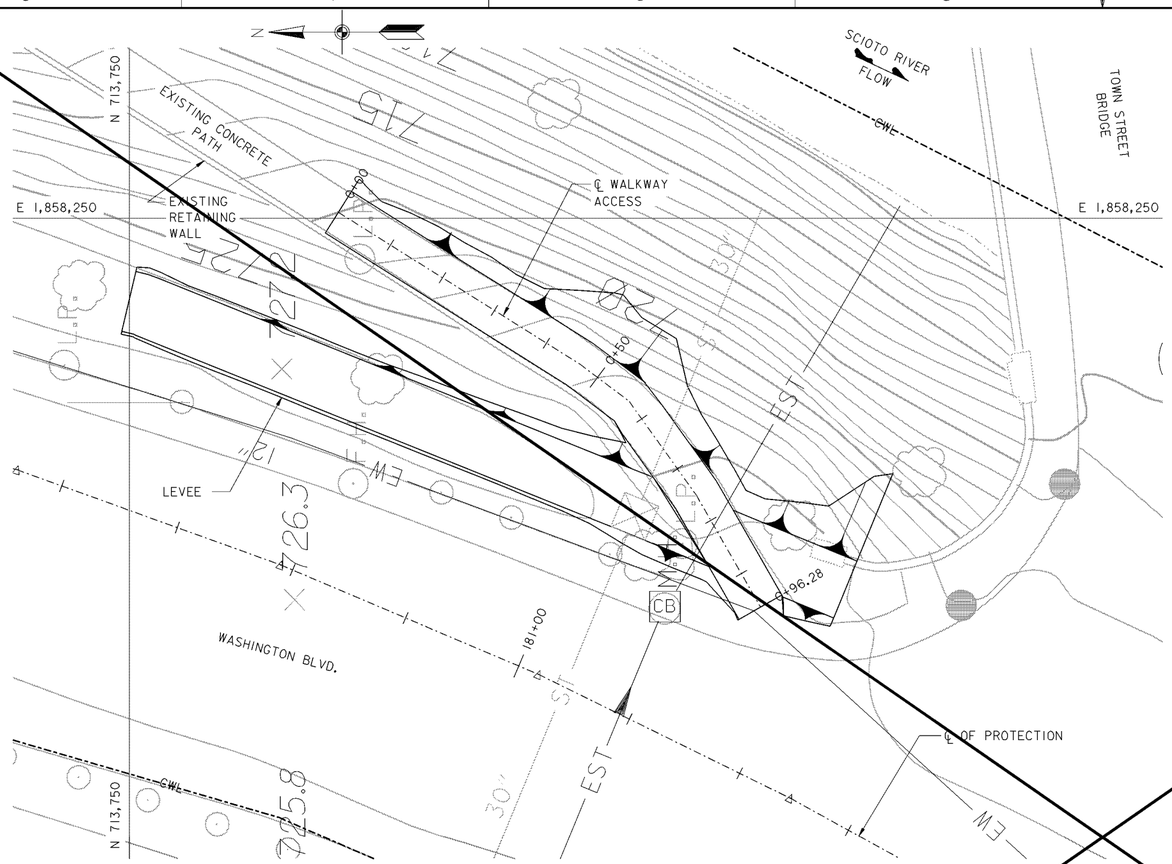
US Army Corps of Engineers

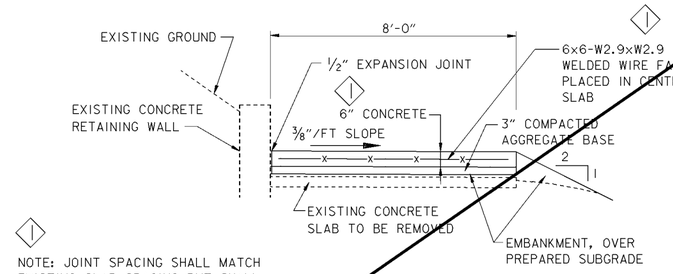
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

TOWN STREET SANDBAG CLOSURE

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/4
FILENAME: a0g4pp01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED





NOTE: JOINT SPACING SHALL MATCH EXISTING SLAB SPACING BUT SHALL NOT EXCEED 8 FEET.

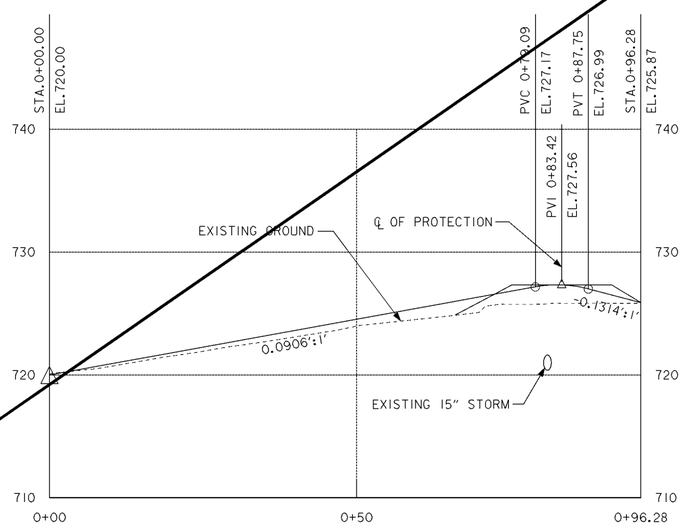
TYPICAL SIDEWALK SECTION AT EXISTING RETAINING WALL

SCALE: ½" = 1'-0"

NOTE:
WORK NOT REQUIRED DUE TO AMPHITHEATRE PROJECT. SEE DRAWING NO. 20.2/4 FOR SANDBAG REQUIREMENTS IN THIS AREA.

PLAN

SCALE: 1" = 10'



PROFILE

SCALE IN FEET

HORIZONTAL ALIGNMENT

Review Horizontal Alignment Single

	STATION	NORTHING	EASTING
Element: LINEAR			
POB ( )	0+00.00	713715.96	1858250.93
PI ( )	0+46.42	713676.66	1858226.21
Tangent Direction:	S 32°10'18.44" W		
Tangent Length:	46.42		

Review Horizontal Alignment Single

	STATION	NORTHING	EASTING
Element: LINEAR			
PI ( )	0+46.42	713676.66	1858226.21
PI ( )	0+56.52	713668.59	1858220.15
Tangent Direction:	S 36°54'14.20" W		
Tangent Length:	10.10		

Review Horizontal Alignment Single

	STATION	NORTHING	EASTING
Element: LINEAR			
PI ( )	0+56.52	713668.59	1858220.15
PI ( )	0+75.24	713657.71	1858204.92
Tangent Direction:	S 54°26'42.87" W		
Tangent Length:	18.72		

Review Horizontal Alignment Single

	STATION	NORTHING	EASTING
Element: LINEAR			
PI ( )	0+75.24	713657.71	1858204.92
POE ( )	0+96.28	713647.24	1858186.67
Tangent Direction:	S 60°09'29.42" W		
Tangent Length:	21.04		

Revisions			
Symbol	Descriptions	Date	Approved
	REVISED AS CONSTRUCTED	7/02	P.O.C.
	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4-23-98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

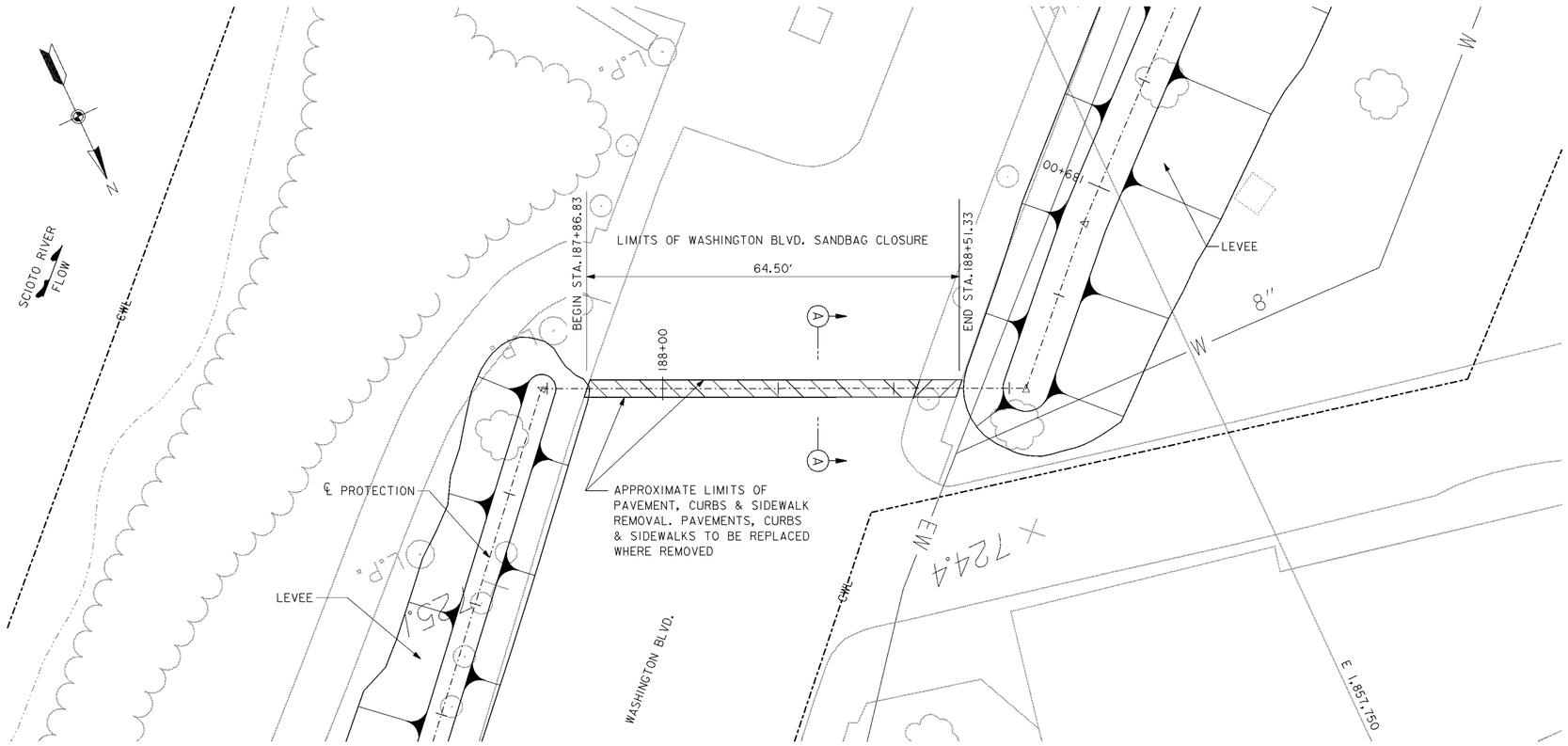
US Army Corps of Engineers

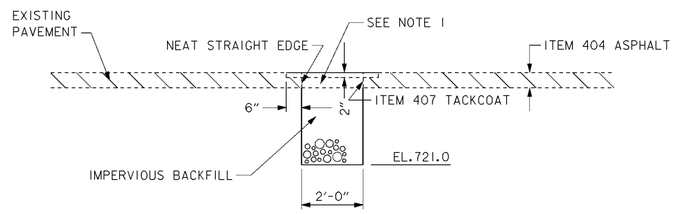
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

TOWN STREET WALKWAY ACCESS PLAN & PROFILE

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/5
FILENAME: a0a2pp01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



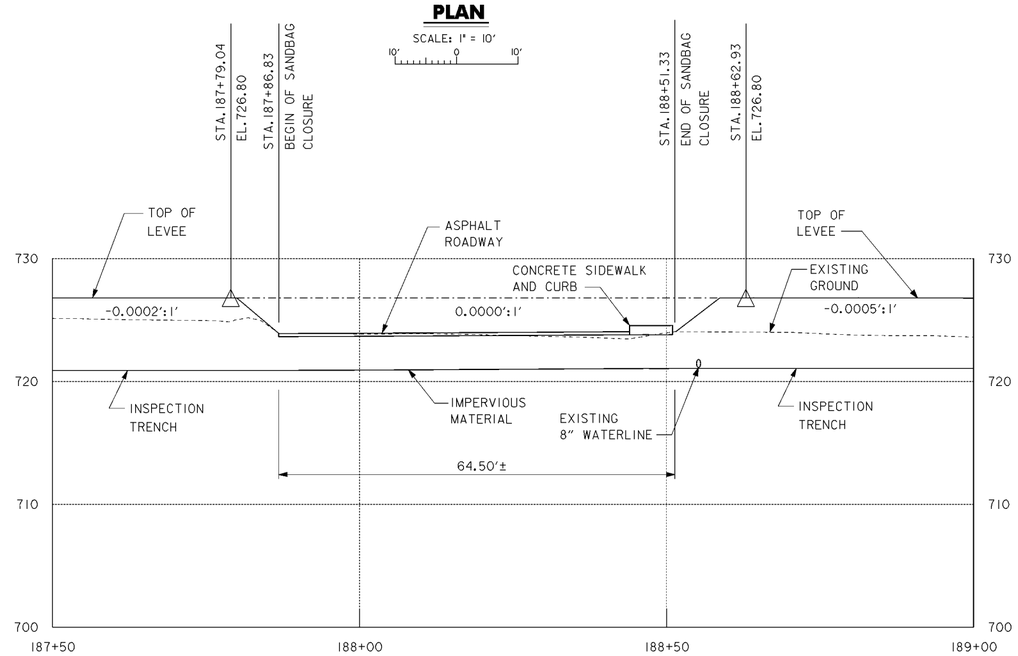


SECTION A-A

SCALE: 1½" = 1'-0"

PLAN

SCALE: 1" = 10'



PROFILE

SCALE IN FEET

LEGEND

ASPHALT PAVEMENT

CONCRETE SIDEWALK AND CURB

NOTES

1. FOR PAVEMENT REMOVAL AND REPLACEMENT DETAILS AND SIDEWALK/CURB REMOVAL LIMITS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO.1441 DR.A.
2. FOR SIDEWALK REPLACEMENT SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO. 2300 DR.A.
3. FOR CURB REPLACEMENT SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO. 2000 DR.A.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

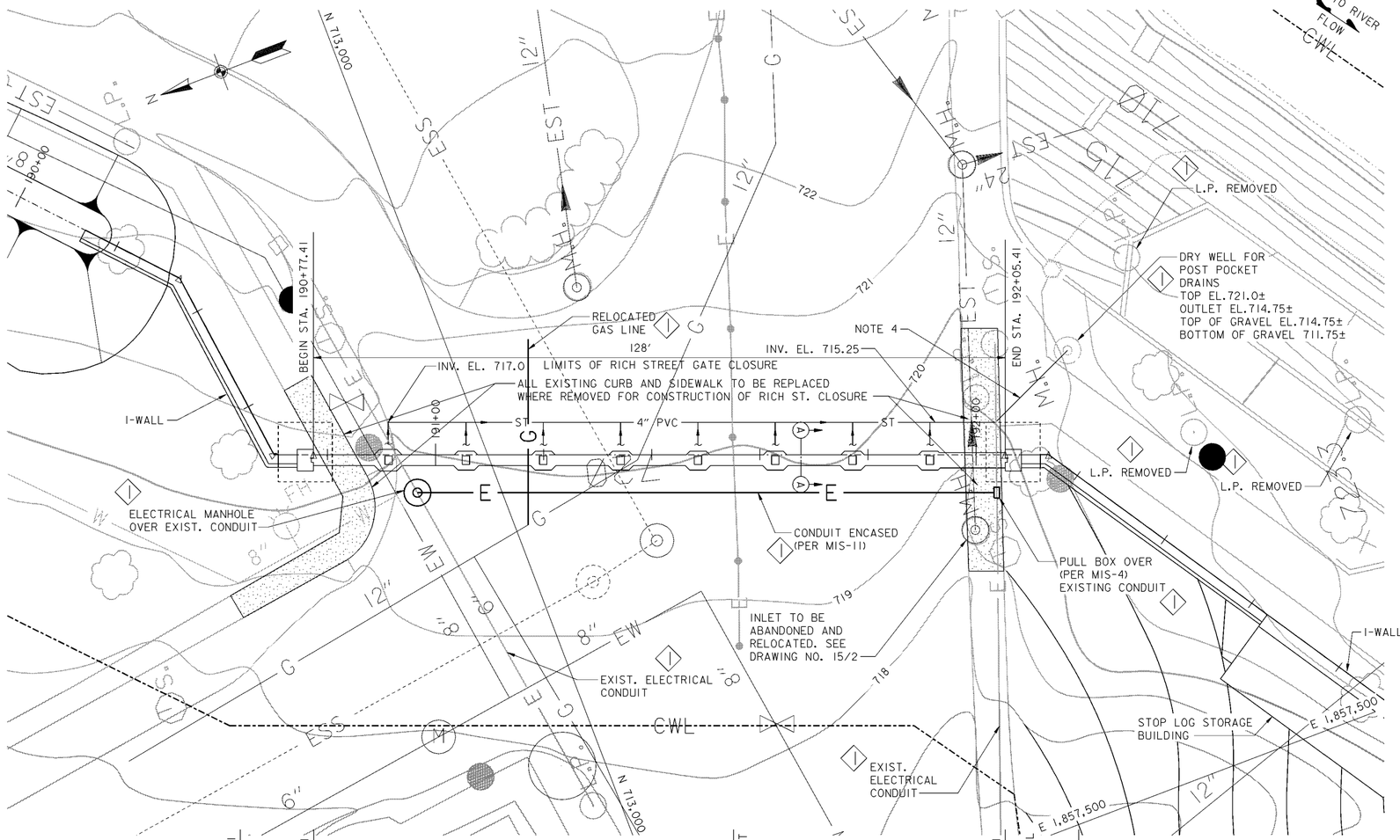
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

WASHINGTON BLVD. CLOSURE PLAN & PROFILE

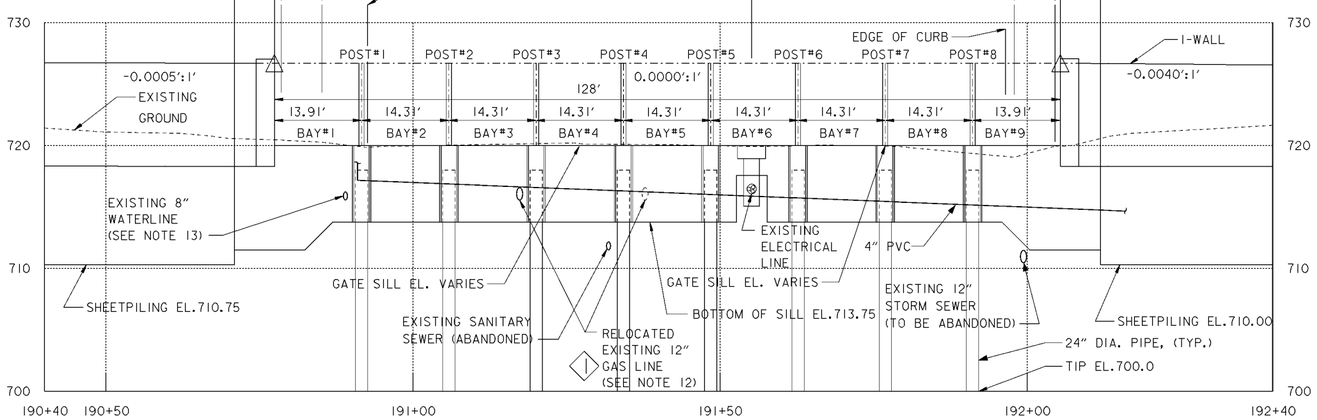
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/6
FILENAME: PEN TABLE: 00g5pp01.dgn
Sheet 1 of 1

WORK AS CONSTRUCTED



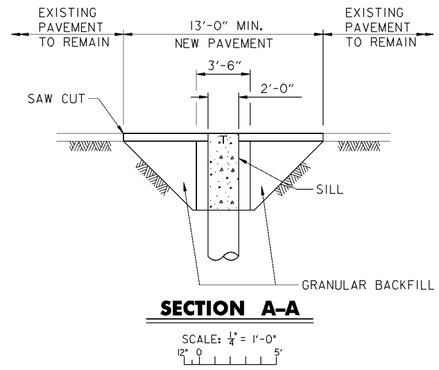
PLAN

SCALE: 1" = 10'



PROFILE

SCALE IN FEET



SECTION A-A

SCALE: 1/4" = 1'-0"

12" 0 5'

APPROXIMATE LIMITS OF SIDEWALK REMOVAL

NOTES

1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.
2. FOR INTERIOR DRAINAGE AT RICH STREET SEE DRAWING NO.15/2.
3. FOR RICH STREET STOP LOG CLOSURE DETAILS SEE DRAWING NOS. 20.2/8 THRU 20.2/14.
4. ◇1 POST POCKET DRAIN OUTLET SHALL BE TIED INTO NEW DRY WELL.
5. FOR CONNECTION OF POST POCKET DRAINS SEE DRAWING NO. 20.2/10.
6. FOR METHOD OF PASSING UTILITIES THROUGH GATE SILL SEE DRAWING NO. 20.1/14.
7. FOR PAVEMENT REMOVAL AND REPLACEMENT DETAILS AND SIDEWALKS/CURBS REMOVAL LIMITS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO.1441 DR.A.
8. FOR SIDEWALK REPLACEMENT SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO.2300 DR.A.
9. FOR REPLACEMENT OF SIDEWALK RAMPS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO.2312 DR.A.
10. FOR CURB REPLACEMENT SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO.2000 DR.A.
11. BACKFILL FOR BUTTRESS MONOLITHS SUPPORTING SIDEWALKS SHALL BE GRANULAR BACKFILL. ALL OTHER BACKFILL AT BUTTRESS MONOLITHS SHALL BE IMPERVIOUS BACKFILL.
12. FOR BUTTRESS MONOLITH FOUNDATION PREPARATION SEE DRAWING NO.20.2/10.
13. EXISTING 8" WATER LINE TO BE REMOVED AFTER INSTALLATION OF NEW 8" WATER LINE. SEE DRAWING NO.15/12.

Revisions			
Symbol	Descriptions	Date	Approved
◇1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

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Checked by: P.CONROY
Reviewed by:
Approved by:

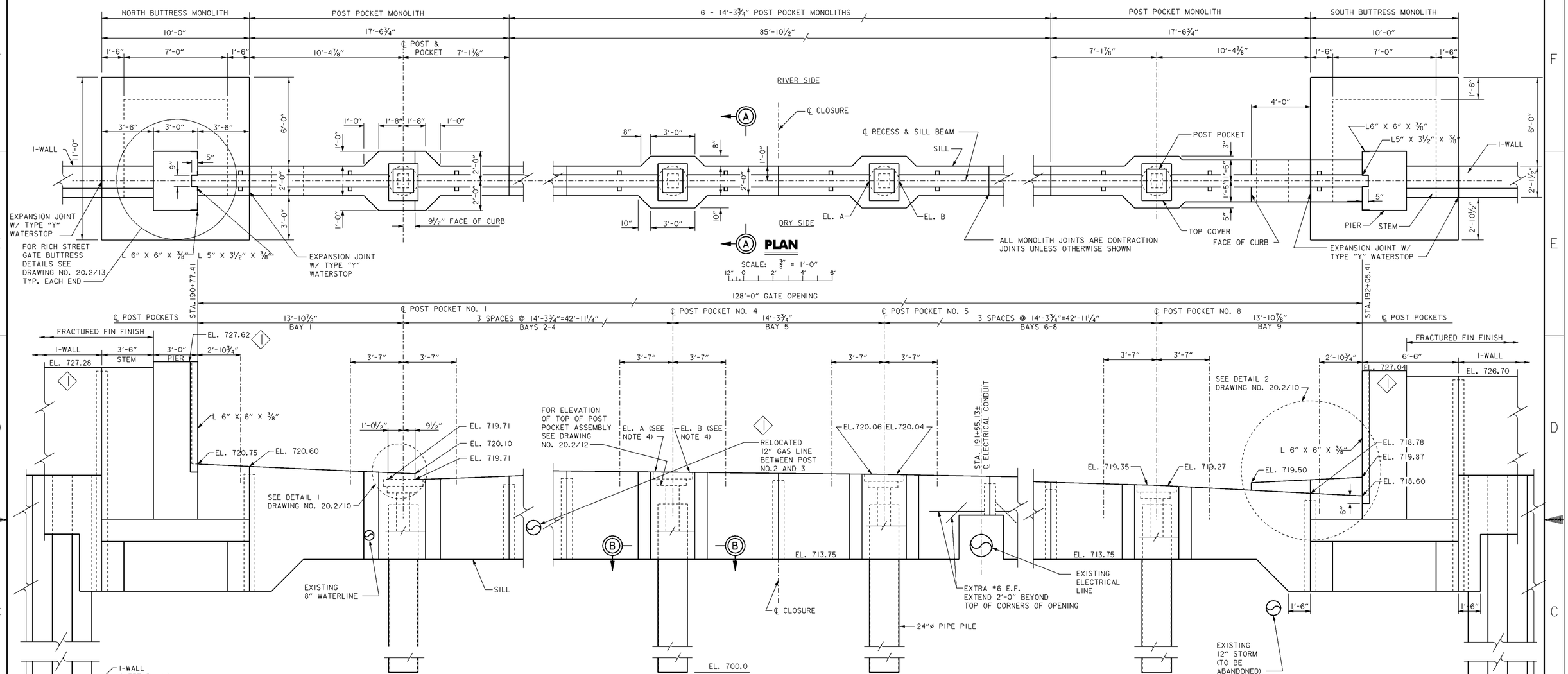
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RICH STREET GATE CLOSURE PLAN & PROFILE

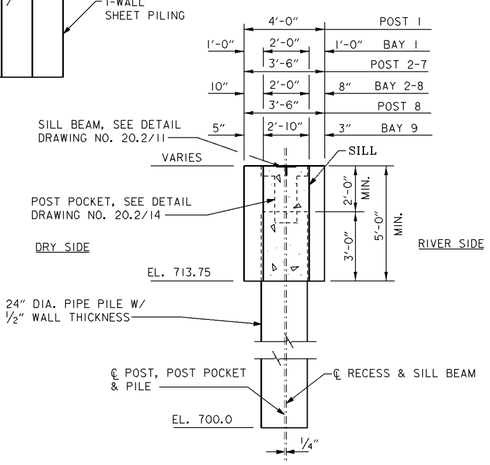
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/7
FILENAME: PRN TABLE: a0g6pp01.dgn
Sheet 1 of 1

WORK AS CONSTRUCTED



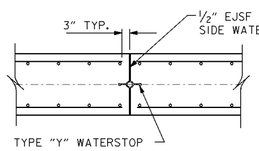
DRY SIDE ELEVATION

SCALE: ⅜" = 1'-0"



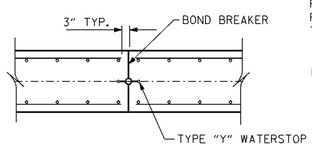
SECTION A-A

SCALE: ⅜" = 1'-0"



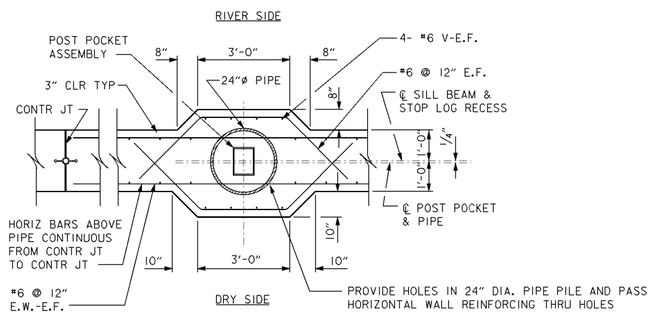
EXPANSION JOINT

SCALE: ½" = 1'-0"



CONTRACTION JOINT

SCALE: ½" = 1'-0"



NOTE:
CONCRETE FILL PILE FROM TOP OF PIPE TO ELEVATION BOTTOM OF SILL.

SECTION B-B

SCALE: ½" = 1'-0"

NOTES

1. PILE DRIVEN TO DEPTH SHOWN. CUT-OFF @ 3'-0" ABOVE BOTTOM OF SILL. CLEAN OUT TOP 3'-0" OF PIPE AND FILL WITH CONCRETE.
2. SILL HORIZONTAL REINFORCEMENT MAY BE PLACED EITHER INSIDE OR OUTSIDE VERTICAL REINFORCEMENT. MAINTAIN 3" CLEAR.
3. SEE DRAWING NO. 20.2/7 FOR POST NUMBERING.
4. SEE DRAWING NO. 20.2/11 FOR TOP COVER ELEVATIONS @ A & B.
5. SEE DRAWING NO. 20.2/9 FOR STRUCTURAL GENERAL NOTES.
6. FOR BUTTRESS MONOLITH FOUNDATION PREPARATION SEE DRAWING NO.20.2/10.
7. FOR TYPE "Y" WATERSTOP SEE DRAWING NO. 20.1/1.
8. FOR POST POCKET CENTERLINE STATION SEE TABLE ON DRAWING NO. 20.2/11.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: D.BECKNER
Checked by: D.TRAINA
Reviewed by:
Approved by:

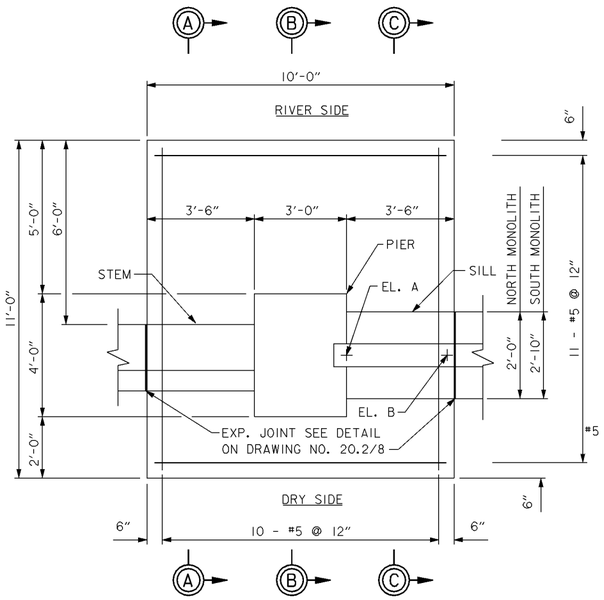
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RICH STREET GATE
CLOSURE PLAN AND ELEV

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/8
FILENAME: a0g6pe01.dgn
PEN TABLE:
Sheet 1 of 1

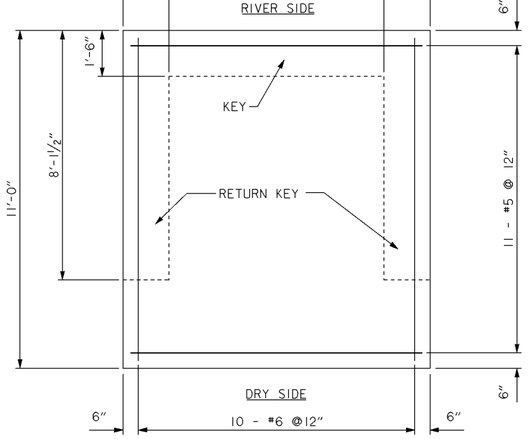
WORK AS CONSTRUCTED



TOP REINFORCEMENT

1. SHOWN FOR NORTH MONOLITH, SOUTH MONOLITH OPPOSITE HANDS
2. ELEVATION OF SILL BEAM:

ELEVATION	MONOLITH	
	NORTH	SOUTH
A	720.75	718.60
B	720.60	718.78

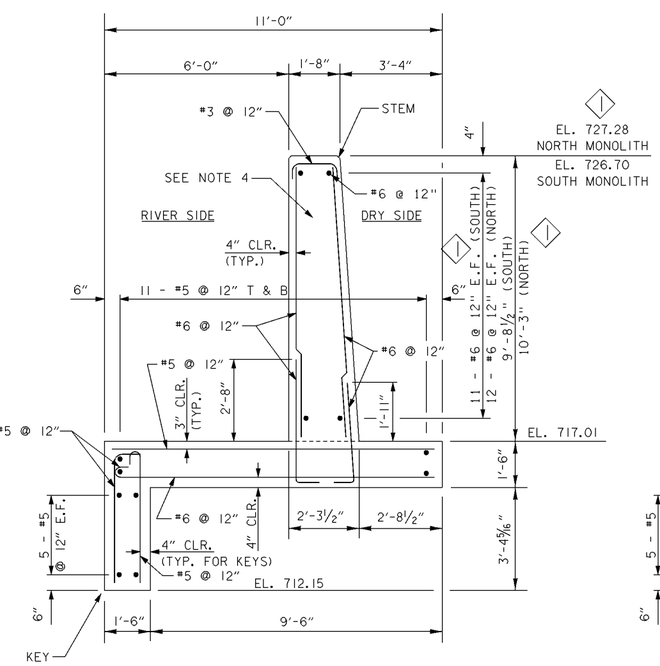


SEE NOTE 3

BOTTOM REINFORCEMENT

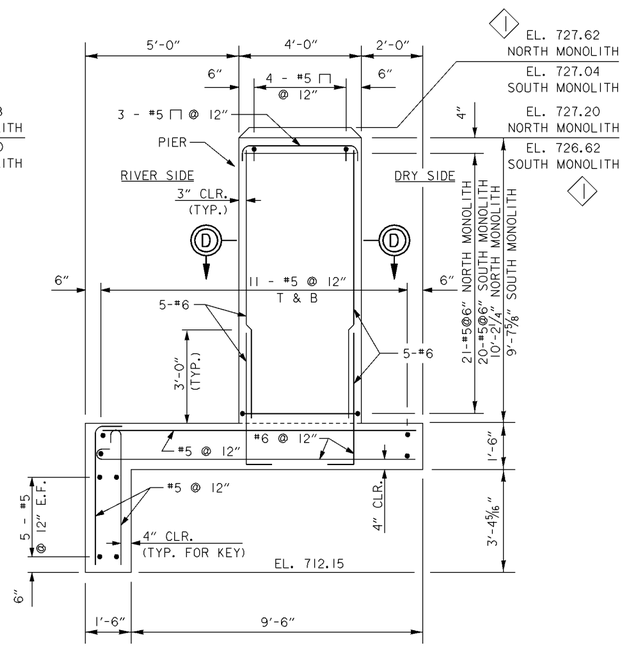
PLAN-BASE REINFORCEMENT

SCALE: ½" = 1'-0"



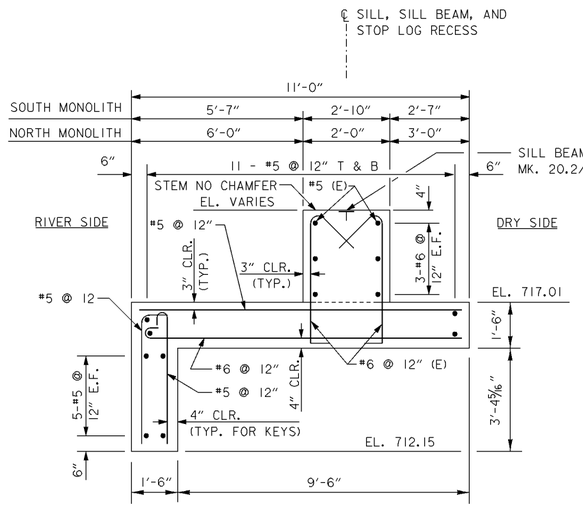
SECTION A-A

SCALE: ½" = 1'-0"



SECTION B-B

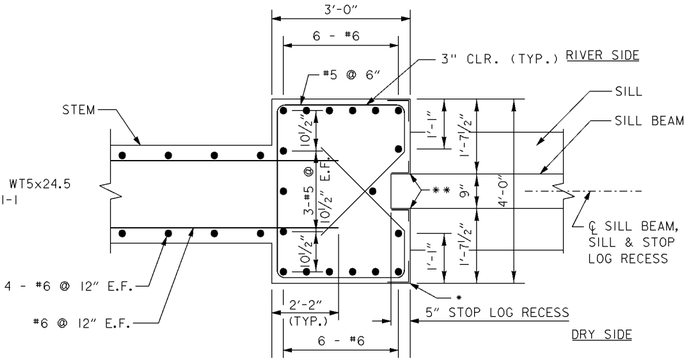
SCALE: ½" = 1'-0"



SECTION C-C

SCALE: ½" = 1'-0"

NOTE:
SILL HORIZONTAL REINF. MAY BE PLACED EITHER INSIDE OR OUTSIDE VERTICAL REINF. MAINTAIN 3" CLEAR



* L 6"x6"x3/8" MK. 20.2/13-3 FOR NORTH MONOLITH (SEE DRAWING NO.20.2/13)
L 6"x6"x3/8" MK. 20.2/13-4 FOR SOUTH MONOLITH (SEE DRAWING NO.20.2/13)

** L 5"x3½"x3/8" MK. 20.2/13-1 FOR NORTH MONOLITH (SEE DRAWING NO.20.2/13)
L 5"x3½"x3/8" MK. 20.2/13-2 FOR SOUTH MONOLITH (SEE DRAWING NO.20.2/13)

PIER

SECTION D-D

SCALE: ¾" = 1'-0"

NOTES

1. FOR LOCATIONS OF BUTTRESS MONOLITHS SEE DRAWING NO.20.2/8.
2. PROVIDE A MINIMUM 4" CLEAR CONCRETE COVER FOR SHEET PILING.
3. RETURN KEY DIMENSIONS AND REINFORCING SAME AS SHOWN FOR KEY.
4. FOR REQUIRED FRACTURED FIN WALL TEXTURE SEE DRAWING NO.20.1/1.
5. FOR BUTTRESS MONOLITH FOUNDATION PREPARATION SEE DRAWING NO.20.2/10.
6. FOR RICH STREET BUTTRESS ARCHITECTURAL FINISHES AND DETAILS SEE DRAWING NO. 20.2/13.

STRUCTURAL GENERAL NOTES

1. PROVIDE 1" CHAMFER ON ALL EXPOSED EDGES OR CORNERS UNLESS OTHERWISE SHOWN.
2. UNLESS OTHERWISE SHOWN OR DIRECTED, BAR BENDING DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE.
3. THE CLEAR DISTANCE BETWEEN THE FACE OF THE CONCRETE AND THE (BOTTOM OF TEXTURED FINISH) SURFACE OF THE MAIN REINFORCING STEEL SHALL BE 4" UNLESS OTHERWISE SHOWN.
4. REINFORCING STEEL MAY BE SPLICED IN PLACES OTHER THAN SHOWN FOR CONSTRUCTION PURPOSES, SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER.
5. ABBREVIATIONS:

B - BOTTOM	CLR. - CLEAR
T - TOP	C.J. - CONSTRUCTION JOINT
E.F. - EACH FACE	CONTR. JT. - CONTRACTION JOINT
(E) - EPOXY COATED	CL. - CLEARANCE
E.W. - EACH WAY	TYP. - TYPICAL
EA. - EACH	MK. - MARK
EJFS- PREMOLDED EXPANSION JOINT FILLER STRIP	WS. - WATERSTOP
LLH - LONG LEG HORIZONTAL	H - HORIZONTAL
	V - VERTICAL

6. CUT AND HOOK HORIZONTAL AND VERTICAL BARS AT OPENINGS.
7. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
8. ALL SPLICES SHALL BE CLASS B UNLESS OTHERWISE SHOWN. CLASS B SPLICE LENGTH SHALL BE 1.3 TIMES THE DEVELOPMENT LENGTH GIVEN IN THE TABLE BELOW.
9. DEVELOPMENT LENGTHS UNLESS OTHERWISE SHOWN OR DIRECTED SHALL BE AS FOLLOWS:

BAR SIZE	DEVELOPMENT LENGTH (L_d) INCHES *	
	TOP BARS **	OTHERS
3	13	12
4	17	14
5	22	17
6	26	20
7	38	29
8	43	33
9	49	38
10	55	42
11	61	47

* PLUS CLEARANCE

** TOP HORIZONTAL SLAB AND FOUNDATION BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW THE BARS.

10. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3,000 P.S.I. AT 28 DAYS, UNLESS OTHERWISE NOTED.
11. TO FACILITATE CONSTRUCTION, HORIZONTAL STEM REINFORCEMENT IN FLOODWALL MONOLITHS MAY BE PLACED ON EITHER SIDE OF VERTICAL REINFORCEMENT PROVIDED THE REQUIRED CONCRETE COVER ON THE VERTICAL REINFORCING BARS IS MAINTAINED.
12. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE D1.1 OR D1.2.
13. UNLESS OTHERWISE NOTED, ALL ITEMS NOTED C.R.S. SHALL BE CORROSION RESISTANT STEEL.
14. ALL DOWEL BAR SUBSTITUTES SHALL BE LENTON FORM SAVER BY ERICO OR EQUAL.
15. ALL GROUT SHALL BE NONSHRINK, NON-METALLIC, NONSTAINING, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS. THE GROUT SHALL CONFORM TO ASTM C1107 OR CRD-C621 AND INSTALLED AS PER THE MANUFACTURERS RECOMMENDATIONS. ALL DRILLED HOLES SHALL BE DONE USING A ROTARY PERCUSSION DRILL.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: D.BECKNER
Checked by: D.TRAINA
Reviewed by:
Approved by:

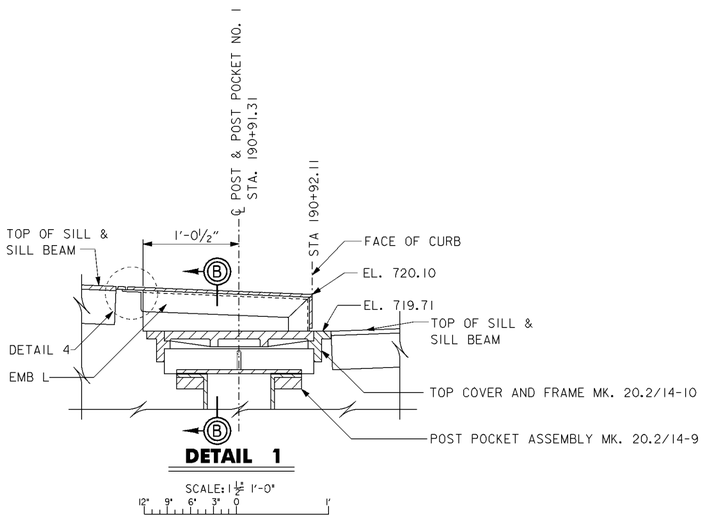
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

BUTTRESS MONOLITHS REINF

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/9
FILENAME: PIN TABLE: c0g6m101.dgn
Sheet 1 of 1

WORK AS CONSTRUCTED

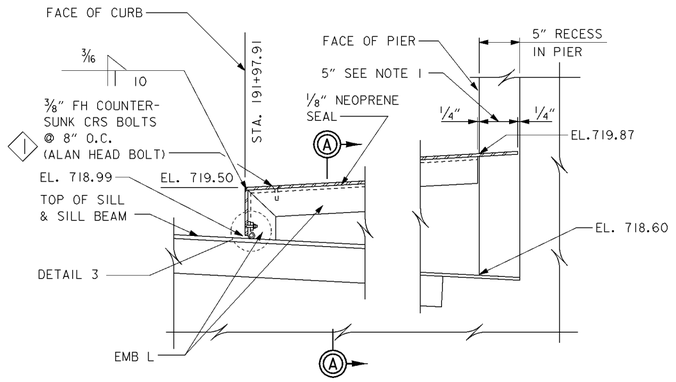


DETAIL 1

SCALE: 1½" = 1'-0"

DETAIL 1 NOTES

1. FOR LOCATION SEE DRAWING NO. 20.2/8.

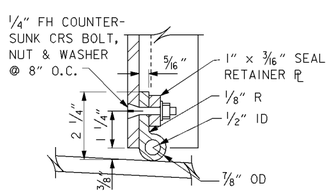


DETAIL 2

SCALE: 1½" = 1'-0"

DETAIL 2 NOTES

1. REDUCE WIDTH OF CHECKERED ℄ TO 9½" @ RECESS IN PIER.
2. FOR LOCATION SEE DRAWING NO. 20.2/8.

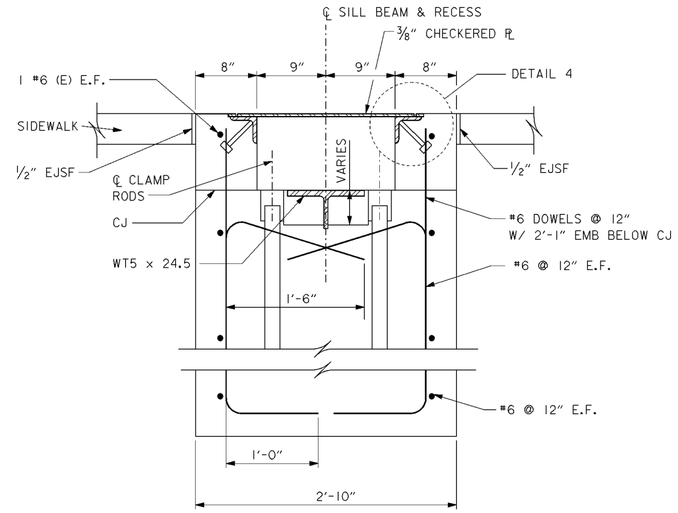


DETAIL 3

SCALE: 3" = 1'-0"

DETAIL 3 NOTES

1. POSITION SEAL SO THAT IT IS COMPRESSED BY 3/16" WITH ℄ INSTALLED.

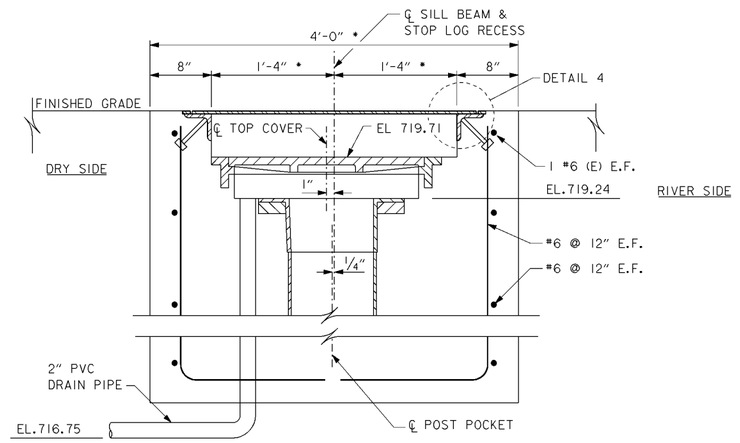


SECTION A–A

SCALE: 1½" = 1'-0"

SECTION A–A NOTES

1. DIMENSIONS AND DETAILS SYM. ABOUT ℄.
2. EXTEND CHECKERED ℄ INTO RECESS IN PIER.

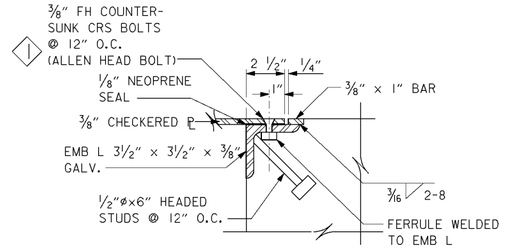


SECTION B–B

SCALE: 1½" = 1'-0"

SECTION B–B NOTES

1. * DIMENSIONS BASED ON TOP COVER FRAME WIDTH OF 2'-6". CONTRACTOR SHALL ADJUST DIMENSIONS AS REQUIRED FOR TOP COVER FRAME PROVIDED.
2. PLAN LAYOUT OF REINFORCEMENT SIMILAR TO SECTION B-B ON DRAWING NO. 20.2/8.
3. SEE DRY SIDE ELEVATION ON DRAWING NO. 20.2/11.

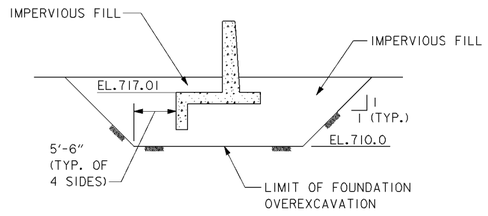


DETAIL 4

SCALE: 3" = 1'-0"

DETAIL 4 NOTES

1. APPLIES ALONG HORIZ & VERTICAL SIDES OF ℄.
2. PROVIDE ONE BOLT 2" ABOVE BOTTOM OF VERTICAL SECTION OF ℄.
3. PROVIDE ONE BOLT 2" FROM END OF ℄.



FOUNDATION PREPARATION BUTTRESS MONOLITHS

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. EMBEDDED ∠ AND WT SHALL BE A36 STEEL.
2. GALVANIZE CHECKERED ℄ AFTER FABRICATION.
3. EMBEDDED ∠ DISCONTINUED @ EXPANSION JOINT.
4. CHECKERED ℄ CONTINUOUS OVER EXPANSION JOINT.
5. EMBEDDED ANGLES SHALL BE MITERED AND BUTT WELDED TOGETHER.
6. ALUMINUM PAINT EMBEDDED ANGLES AFTER FABRICATION, BUT BEFORE INSTALLATION.
7. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: D.BECKNER
Checked by: P.CONROY
Reviewed by:
Approved by:

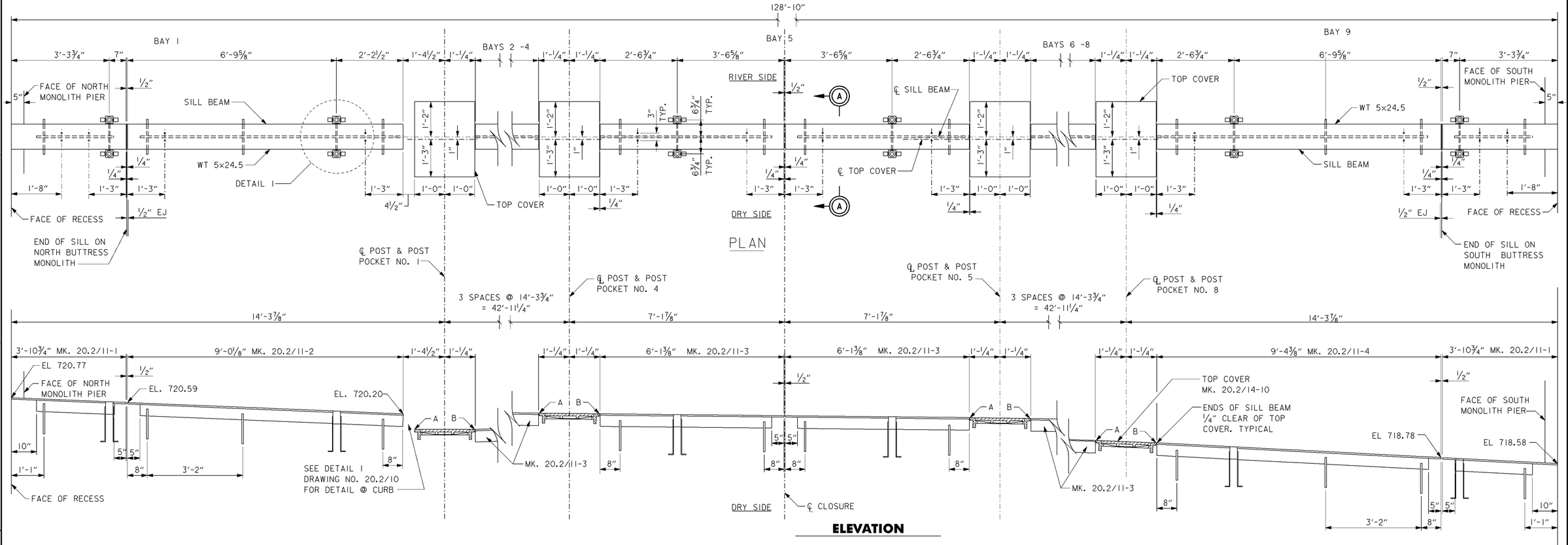
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

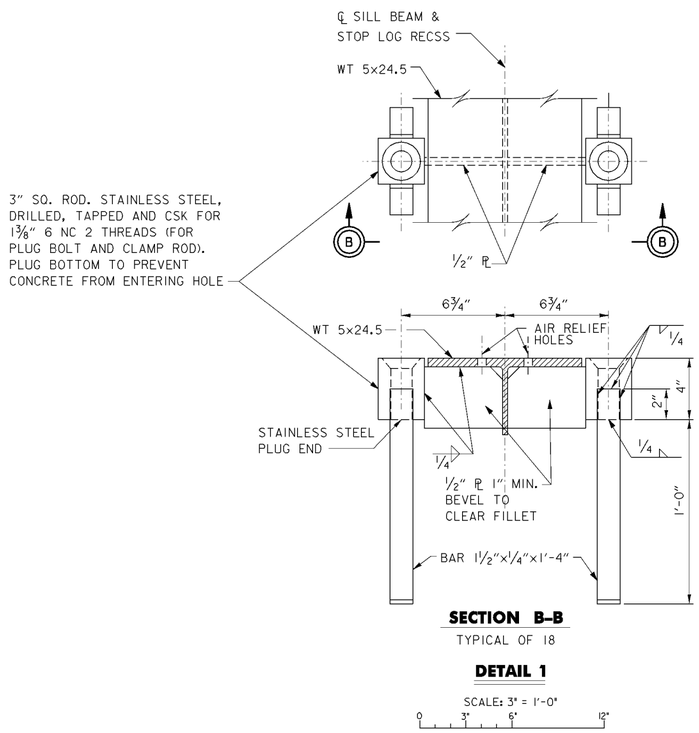
MISCELLANEOUS DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/10
FILENAME: a0g6d101.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



MK. 20.2/11-1	2 REQUIRED
MK. 20.2/11-2	1 REQUIRED
MK. 20.2/11-3	14 REQUIRED
MK. 20.2/11-4	1 REQUIRED



SILL BEAM

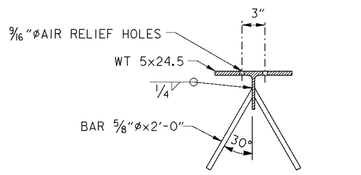
SCALE: ¾" = 1'-0"

SECTION B–B

TYPICAL OF 18

DETAIL 1

SCALE: 3" = 1'-0"



SECTION A–A

SCALE: 1½" 1'-0"

POST POCKET ℄ STATIONS

POST NO.	STATION
1	190+91.32
2	191+05.63
3	191+19.94
4	191+34.25
5	191+48.57
6	191+62.88
7	191+77.19
8	191+91.50

◇1 TOP COVER ELEVATIONS

POST NO.	A	B
1	719.69	719.69
2	720.15	720.20
3	720.33	720.33
4	720.21	720.18
5	720.04	720.02
6	719.87	719.85
7	719.76	719.72
8	719.32	719.24

NOTES

1. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.
2. ALL STAINLESS STEEL SHALL CONFORM TO ASTM A 276-90a.
3. STAINLESS STEEL FILLER METAL SHALL BE USED FOR ALL WELDING TO STAINLESS STEEL.
4. SILL BEAM WT 5x24.5 MK. 20.2/10-1 THRU 4 SHALL BE FLAT TO WITHIN ⅛" IN 6'-0".
5. LENGTH OF SILL BEAMS ARE BASED ON A TOP COVER WIDTH OF 2'-0" AND SHALL BE ADJUSTED IF THE TOP COVER FURNISHED HAS A DIFFERENT DIMENSION.
6. ALUMINUM PAINT SILL BEAM AFTER FABRICATION, BUT BEFORE INSTALLING.
7. END OF SILL ELEVATION SHALL MATCH ELEVATION OF ADJACENT EDGE OF TOP COVER EXCEPT AS SHOWN.
8. TOP OF SILL BEAM SHALL HAVE A CONSTANT SLOPE WITHIN EACH BAY.
9. SLOPE OF SILL BEAM IS CONSTANT BETWEEN POST NO. 3 & POST NO. 7.
10. DELIVER SILL BEAMS TO SITE WITH BOLTS MK. 20.2/13-7 INSTALLED.

Revisions			
Symbol	Descriptions	Date	Approved
◇1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: D.BECKNER
Checked by: P.CONROY
Reviewed by:
Approved by:

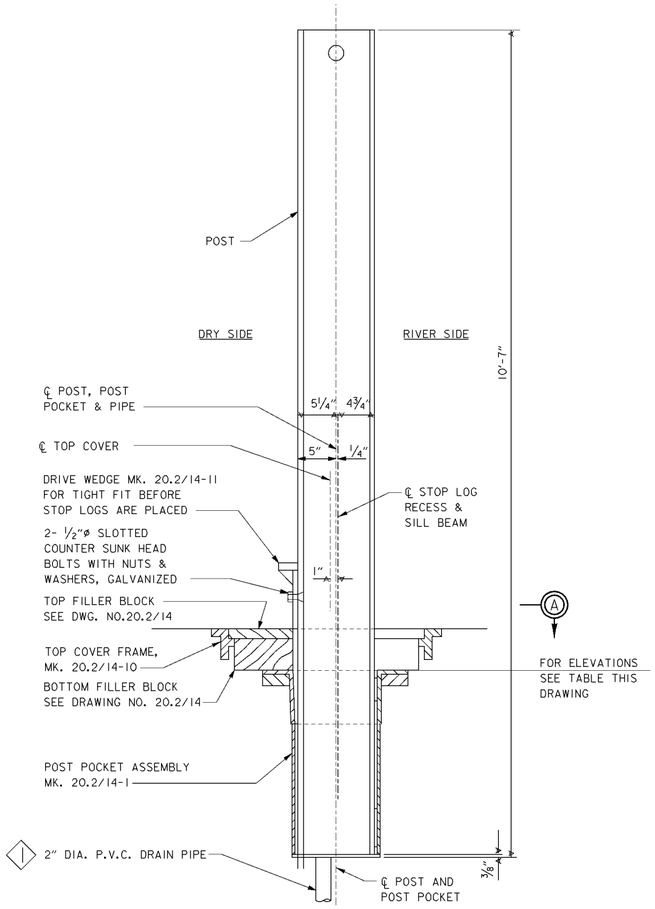
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

EMBEDDED SILL BEAM AND DETAILS

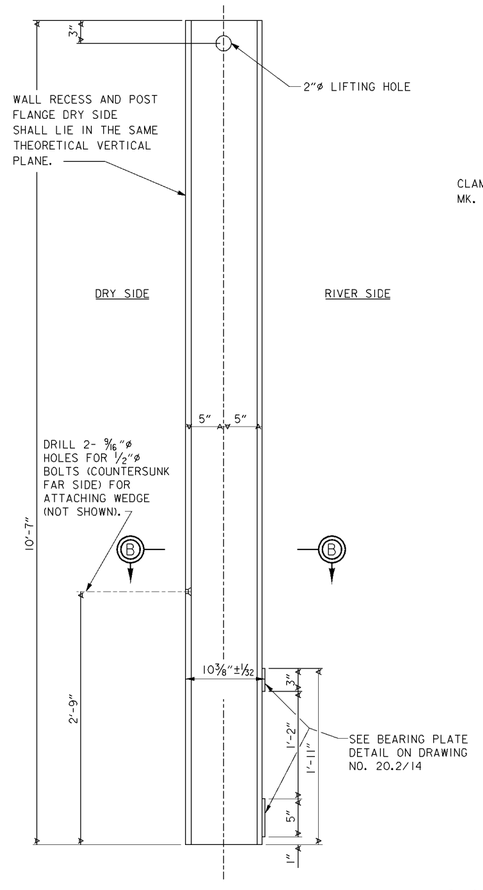
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/11
FILENAME: a0g6am01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



SECTIONAL ELEVATION AT CENTERLINE

SCALE: 1 ½" = 1'-0"

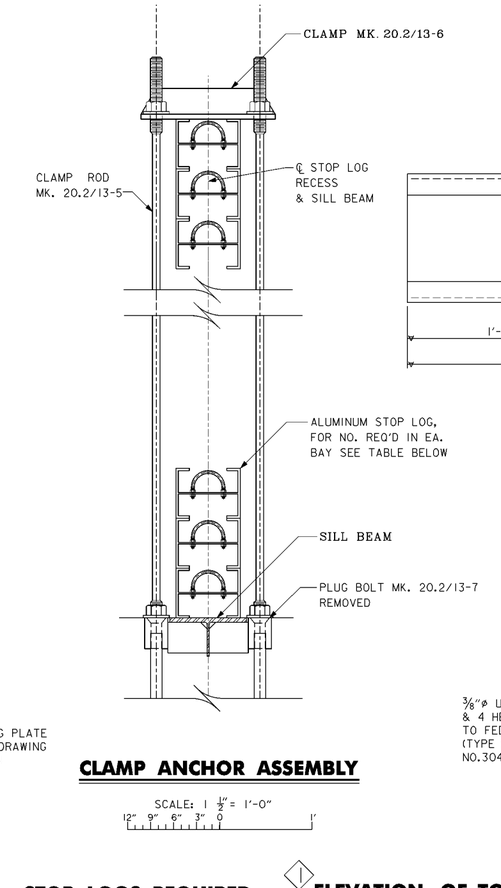


POST DETAIL

(8 REQUIRED)

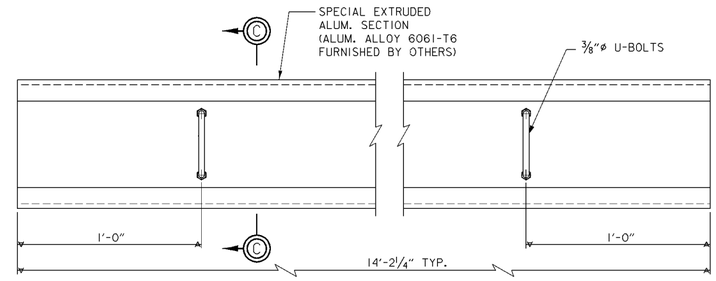
CONNECT BEARING ℞'S TO POST W/ ½"ø COUNTERSUNK RIVETS, ALUM. ALLOY 6061-T6. 6 RIVETS EACH POST. THE RIVET HEADS SHALL NOT EXTEND OUTSIDE OF THE COUNTERSUNK HOLES.

SCALE: 1 ½" = 1'-0"



CLAMP ANCHOR ASSEMBLY

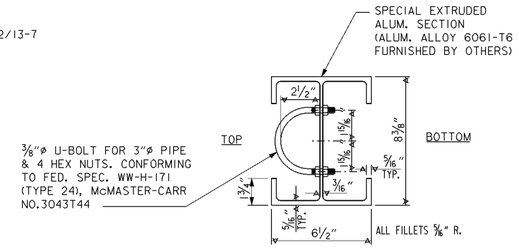
SCALE: 1 ½" = 1'-0"



PLAN ALUMINUM STOP LOGS

(117 REQUIRED)

SCALE: 3" = 1'-0"



SECTION C–C

TWO PART WATER BASED GRAY EPOXY PRIMER COAT ALUM. SECTION WHERE IN CONTACT W/ U-BOLTS AND NUTS. APPLY THREAD ADHESIVE TO U-BOLT IN CONFORMANCE W/ MANUF. RECOMMENDATION. SHUG TIGHTEN NUTS.

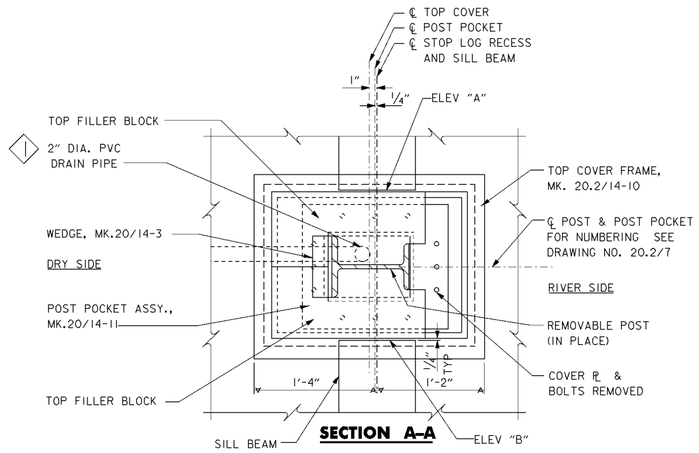
SCALE: 3" = 1'-0"

STOP LOGS REQUIRED

BAY NO.	NO.
1	12
2	13
3	13
4	12
5	13
6	13
7	13
8	14
9	14
TOTAL	117

ELEVATION OF TOP OF POST POCKET ASSEMBLY

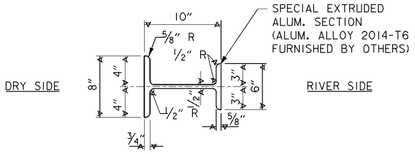
POST NO.	ELEVATION
1	719.23
2	719.60
3	719.74
4	719.73
5	719.43
6	719.41
7	719.25
8	718.92



SECTION A–A

PLAN EMBEDDED POCKET WITH POST IN PLACE

SCALE: 1 ½" = 1'-0"



SECTION B–B

SCALE: 1 ½" = 1'-0"

NOTES

1. ALL MATERIALS SHALL BE STRUCTURAL STEEL ASTM. A36-90 UNLESS OTHERWISE NOTED.
2. ALL ALUMINUM SHALL BE ALLOY 6061-T6 UNLESS OTHERWISE NOTED OR SPECIFIED. ALL ALUMINUM SHAPES AND PLATES SHALL CONFORM TO ASTM B221-90 AND B209-90, RESPECTIVELY.
3. APPLICABLE PROVISIONS FOR HIGHWAY AND RAILWAY BRIDGES IN THE STRUCTURAL WELDING CODE (AWS D1.1-90) APPLY TO ALL WELDING UNLESS OTHERWISE NOTED OR SPECIFIED.
4. ALL GROOVE WELDS SHALL BE FULL PENETRATION WELDS.
5. ALUMINUM EXTRUDED SECTIONS FOR POSTS AND STOP LOGS WILL BE FURNISHED BY OTHERS. ALL FABRICATION SHALL BE ACCOMPLISHED BY THE CONTRACTOR.
6. SEE DRAWING NO. 20.2/7 FOR POST POCKET NUMBERING.
7. SEE DRAWING NO. 20.2/11 FOR ELEVATION "A" & "B" AT EACH POST POCKET.
8. STOP PLANK SWEEP AND CAMBER SHALL BE LESS THAN 3⁄8" IN 14'-0".
9. PROVIDE POSTS WITH THE WEDGES LOOSELY BOLTED TO THE POSTS.
10. POST SWEEP & CAMBER SHALL BE LESS THAN ⅛" IN 10'-0".
11. SEE DRAWING NO. 20.2/9 FOR STRUCTURAL GENERAL NOTES.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: D.BECKNER
Checked by: D.TRAINA
Reviewed by:
Approved by:

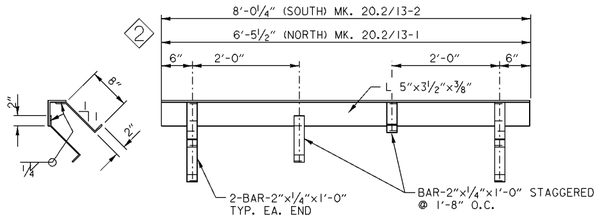
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

STOP LOGS AND POST DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/12
FILENAME: a0g6d102.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

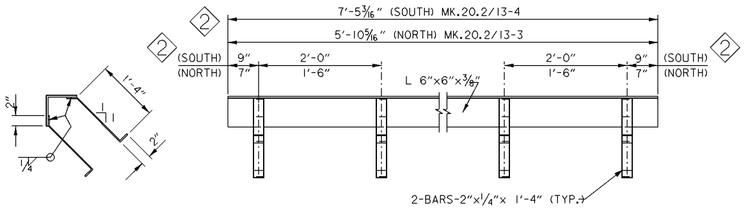


STOP LOG RECESS ANGLE

MK. 20.2/13-2 2 REQUIRED (SOUTH)
MK. 20.2/13-1 2 REQUIRED (NORTH) ②

SCALE: 1"= 1'-0"

0' 1' 2' 3'

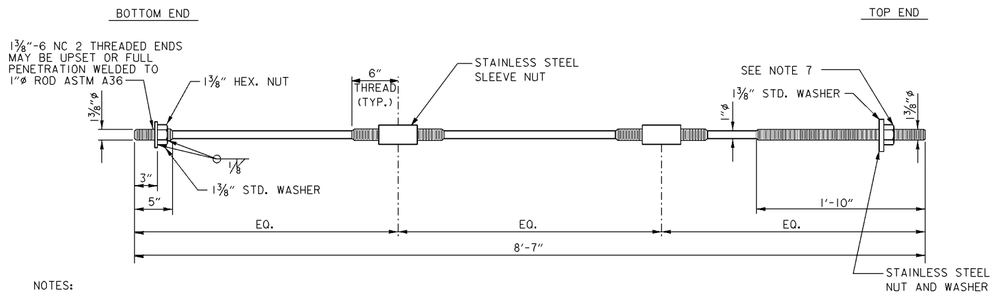


CORNER PROTECTION ANGLE

MK. 20.2/13-4 2 REQUIRED (SOUTH)
MK. 20.2/13-3 2 REQUIRED (NORTH) ②

SCALE: 1" = 1'-0"

0' 1' 2' 3'



NOTES:

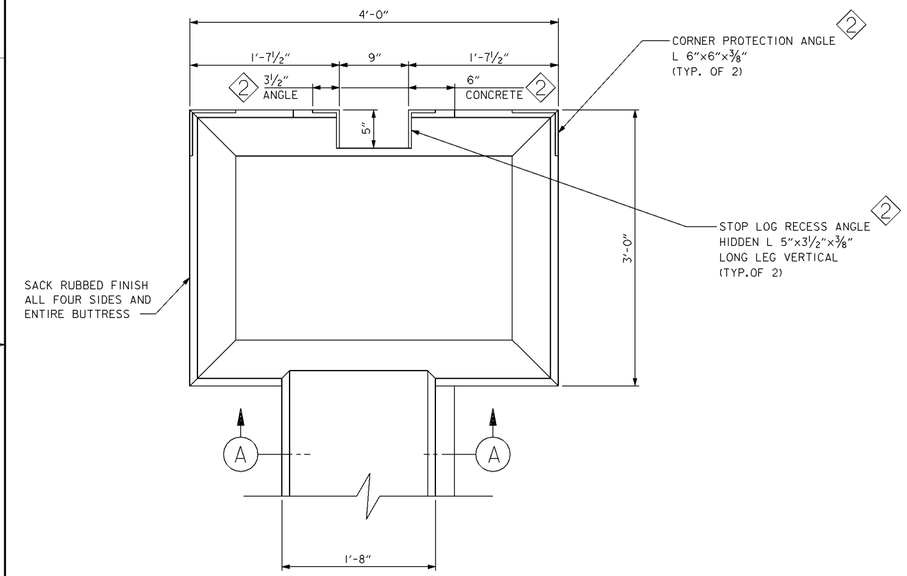
1. RODS SHALL BE STAINLESS STEEL.
2. END NUTS, WASHERS AND SLEEVES SHALL BE STAINLESS STEEL.

CLAMP ROD ①

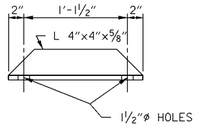
MK. 20.2/13-5 36 REQUIRED

SCALE: 1 ½" = 1'-0"

12" 9" 6" 3" 0 1'



PLAN

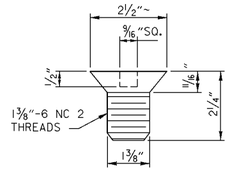


CLAMP

MK. 20.2/13-6 18 REQUIRED

SCALE: 1 ½" = 1'-0"

12" 9" 6" 3" 0 1'



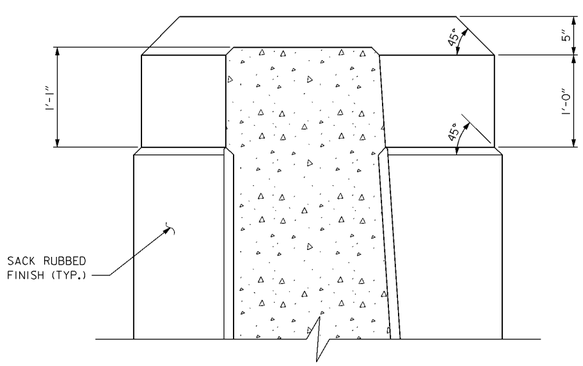
PLUG BOLT

STAINLESS STEEL
MK. 20.2/13-7 36 REQUIRED
SCALE: 6" = 1'-0"

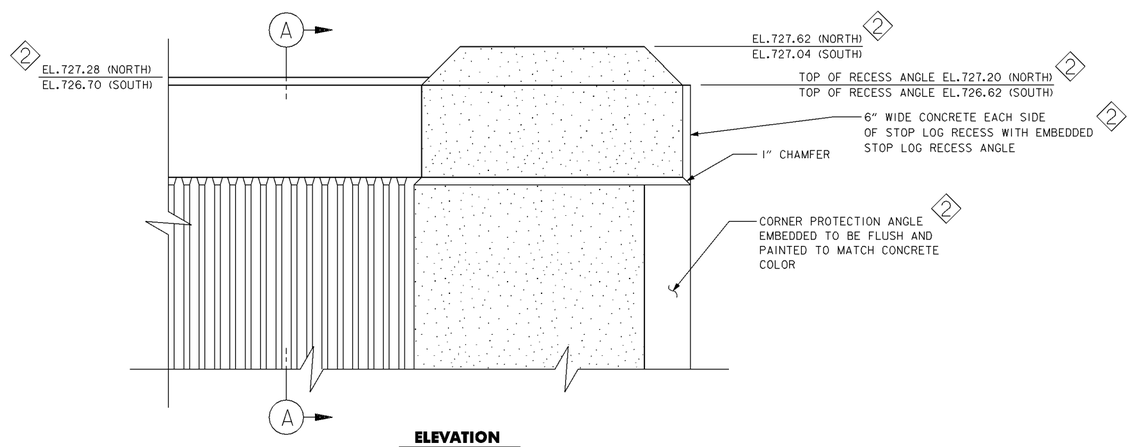
0 3" 6"

NOTES

1. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.
2. ALL STAINLESS STEEL SHALL CONFORM TO ASTM A 276 TYPE 304 UNLESS OTHERWISE NOTED OR SPECIFIED.
3. STAINLESS STEEL FILLER METAL SHALL BE USED FOR ALL WELDING TO STAINLESS STEEL.
4. ANGLES SHALL BE ASTM A-36 STEEL.
5. STOP LOG RECESS ANGLES SHALL BE STRAIGHT TO WITHIN ¼" IN 5'-0".
6. CORNER PROTECTION ANGLES SHALL BE STRAIGHT TO WITHIN ¼" IN 4'-0".
7. PROVIDE 2-18" OPEN END OFFSET HEAD WRENCHES TO FIT 1⅜" HEX. NUTS, WELDED TO WRENCH AT MID-POINT A½" SQ. TO PROVIDE WRENCH FOR BOLTS MK.XX/7 x3" LONG STAINLESS STEEL KEY.
8. ALUMINUM PAINT STOP LOG RECESS ANGLES, CORNER PROTECTION ANGLES AND CLAMPS AFTER FABRICATION BUT BEFORE INSTALLING.
9. EACH ANGLE AND CLAMP ROD SHALL BE STRAIGHT TO WITHIN ¼" OVER THE FULL LENGTH OF THE PIECE.



SECTION A-A



ELEVATION

RICH STREET GATE BUTTRESS

SCALE: 1 ½" = 1'-0"

12" 9" 6" 3" 0 1'

Revisions			
Symbol	Descriptions	Date	Approved
②	REVISED AS CONSTRUCTED	7/02	P.O.C.
①	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: D.BECKNER
Checked by: D.TRAINA
Reviewed by:
Approved by:

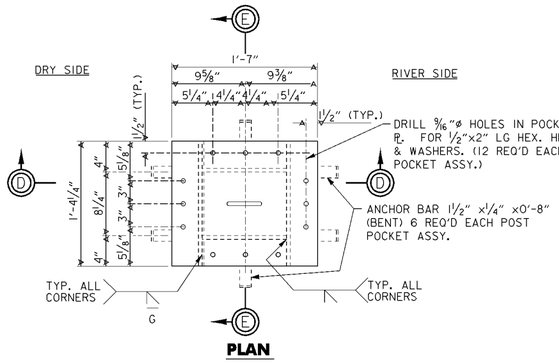
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

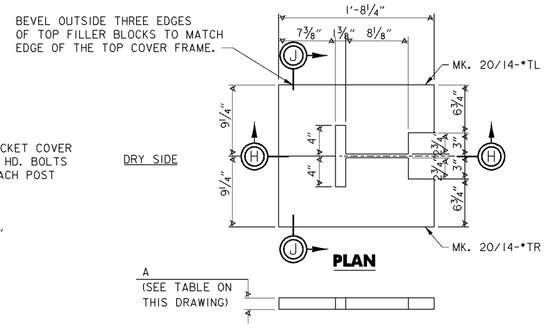
MISCELLLANEOUS METALS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/13
FILENAME: a0g6mm01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN



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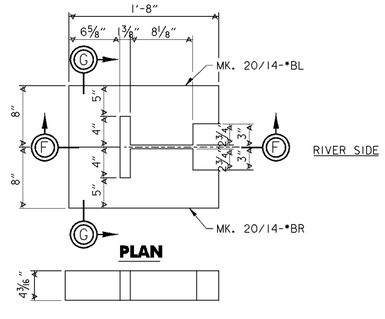
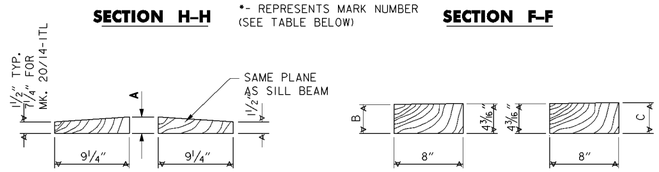


SECTION H–H *- REPRESENTS MARK NUMBER (SEE TABLE BELOW) **SECTION F–F**



SECTION J–J

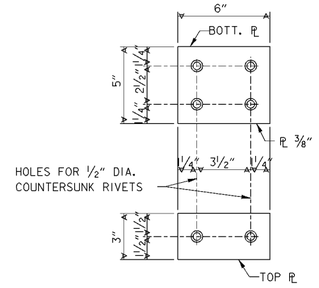
TOP FILLER BLOCKS

(OAK)

SECTION G–G

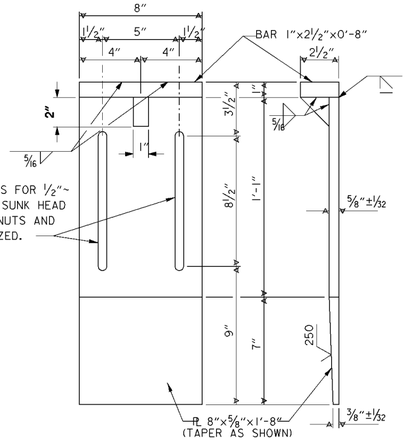
BOTTOM FILLER BLOCKS

(OAK)



BEARING PLATE DETAIL

ALUM. 6061-T6
8 EACH SIZE REQUIRED
SCALE: 3" = 1'-0"
0 3" 6" 12"

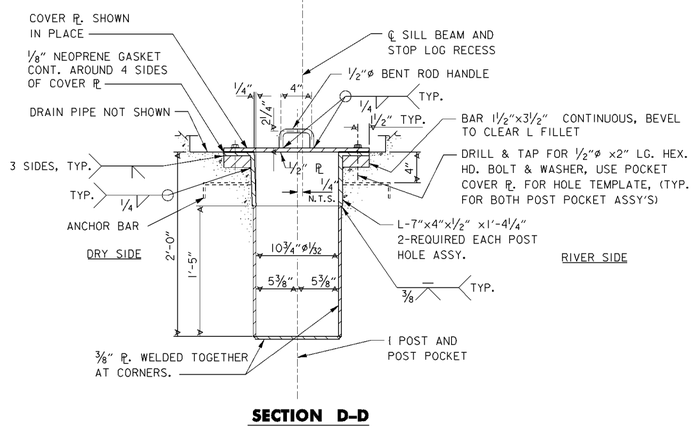


WEDGE DETAIL

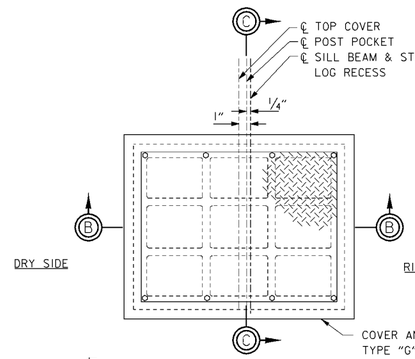
MK. 20.2/14-11 MAKE-8
SCALE: 3" = 1'-0"
0 3" 6" 12"

FILLER BLOCK DETAILS

SEE NOTES 6 THRU 11
12" 9" 6" 3" 0 1'
SCALE: 1½"=1'-0"

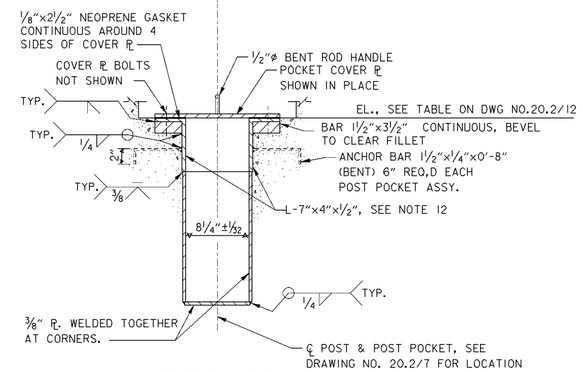


SECTION D–D



PLAN

COVER AND FRAME NO. R-6665-3CP WITH TYPE "G" WATERPROOF LIFTING HANDLE AND COUNTER SUNK STAINLESS STEEL HEX HEAD BOLTS. AS MFG. BY THE NEENAH MFG. CO. OR EQUAL.

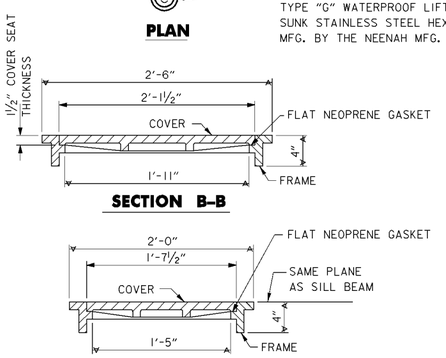


SECTION E–E

POST POCKET ASSEMBLY DETAIL

MK. 20.2/14-9 8 REQUIRED
GALVANIZE
12" 9" 6" 3" 0 1'
SCALE: 1½"=1'-0"

NOTE: BOND GASKET TO BOTTOM OF POCKET COVER PLATE USING FLEXIBLE, WATER PROOF, SOLVENT STYLE NON-VOLCANIZING NEOPRENE ADHESIVE CONFORMING TO MANUFACTURER'S RECOMMENDATION, McMASTER-CARR NO. 7506A OR EQUAL.



SECTION B–B

SECTION C–C

TOP COVER DETAIL

MK. 20.2/14-10 8 REQUIRED
12" 9" 6" 3" 0 1'
SCALE: 1½"=1'-0"

TABLE OF TOP AND BOTTOM FILLER BLOCK THICKNESSES**, INCHES

MARK	POST NO.	A	B	C	ADJUSTMENT
MK.20/14-1TL	1	6 11/16			+ 2½" TO SIDE
MK.20/14-1TR	1	1 3/16			
MK.20/14-1BL	1		4 3/16		+⅜
MK.20/14-1BR	1			4 3/16	
MK.20/14-2TL	2	1¾			
MK.20/14-2TR	2	1¾			
MK.20/14-2BL	2		4		+1¼
MK.20/14-2BR	2			4⅜	+1¼
MK.20/14-3TL	3	1⅝			
MK.20/14-3TR	3	1⅝			
MK.20/14-3BL	3		4 3/16		+1½
MK.20/14-3BR	3			4 3/16	+1½
MK.20/14-4TL	4	1½			
MK.20/14-4TR	4	1½			
MK.20/14-4BL	4		4¼		
MK.20/14-4BR	4			4 1/8	
MK.20/14-5TL	5	1½			
MK.20/14-5TR	5	1½			
MK.20/14-5BL	5		4¼		+1¾
MK.20/14-5BR	5			4 1/8	+1⅝
MK.20/14-6TL	6	1½			
MK.20/14-6TR	6	1½			
MK.20/14-6BL	6		4 5/16		<3/4>
MK.20/14-6BR	6			4 1/16	<1 1/8>
MK.20/14-7TL	7	1 11/16			
MK.20/14-7TR	7	1 11/16			
MK.20/14-7BL	7		4⅜		
MK.20/14-7BR	7			4	
MK.20/14-8TL	8	1 11/16			
MK.20/14-8TR	8	1 11/16			<3/16>
MK.20/14-8BL	8		4½		<1 3/8>
MK.20/14-8BR	8			3⅞	<7/8>

**- THE FILLER BLOCKS SHALL NOT BE FABRICATED UNTIL AFTER THE CONCRETE FOR THE GATE CLOSURE HAS BEEN PLACED AND THE CONTRACTOR HAS MEASURED THE AS BUILT DIMENSIONS OF THE POST POCKETS. ADJUST BLOCK DIMENSIONS SO THAT THE BOTTOM FILLER BLOCK SUPPORTS THE TOP FILLER BLOCK 0 TO 1/16" ABOVE THE TOP COVER SEAT SO THAT THE TOP OF THE TOP FILLER BLOCK ALIGNS WITH THE TOP OF THE ADJACENT SILL BEAM.

NOTES

1. GALVANIZE AFTER ASSEMBLING AND WELDING POST POCKETS, COVER ℄ AND WEDGES.
2. ALL MATERIALS SHALL BE STRUCTURAL STEEL ASTM A36-90.
3. ALL ALUMINUM SHALL BE ALLOY 6061-T6 UNLESS OTHERWISE NOTED OR SPECIFIED. ALL ALUMINUM SHAPES AND PLATES SHALL CONFORM TO ASTM B221-90 AND B209-90 RESPECTIVELY.
4. APPLICABLE PROVISIONS FOR HIGHWAY AND RAILWAY BRIDGES IN THE STRUCTURAL WELDING CODE (AWS D1.1-90) APPLY TO ALL WELDING UNLESS OTHERWISE NOTED OR SPECIFIED.
5. ALL GROOVE WELDS SHALL BE FULL PENETRATION WELDS.
6. ALL FILLER BLOCKS SHALL BE OAK, SELECT STRUCTURAL GRADE PER NELMA, AND TREATED WITH PENTACHLOROPHENOL AS IN AWP-C2.
7. THE TOP AND BOTTOM FILLER BLOCKS HORIZONTAL DIMENSIONS SHALL BE ADJUSTED TO FIT IN THE TOP COVER PROVIDED. THE FILL BLOCKS SHALL HAVE A LOOSE FIT WITH CLEARANCES NOT EXCEEDING 1/4".
8. EACH FILLER BLOCK SHALL HAVE AN ENGRAVED NUMBER CORRESPONDING TO THE POST NUMBER THAT THE BLOCK FITS. THE NUMBERS SHALL BE AT LEAST 1/2" HIGH AND 1/32" DEEP.
9. THE TOP ELEVATION OF THE INSTALLED TOP FILLER BLOCKS UP AND STATION EDGES SHALL MATCH THE TOP OF THE COVER FRAME WITH TOLERANCE OF +0" & -1/8" EXCEPT AS SHOWN AND SHALL HAVE SLOPE CENTER LINE OF THE POST TO MATCH THE SLOPE OF THE ADJACENT SILL BEAM.
10. THE THICKNESS OF THE BOTTOM FILLER BLOCKS SHALL MATCH DEPTH OF THE AS-CONSTRUCTED POST POCKETS. SEE NOTE WITH TABLE.
11. DIMENSIONS OF FILLER BLOCKS ARE BASED ON THE DIMENSION SHOWN FOR THE TOP COVER. IF THE DIMENSIONS OF THE TOP COVER DIFFER FROM THE DIMENSIONS SHOWN, ADJUST DIMENSION OF FILLER BLOCKS.
12. PROVIDE STAMPED NUMBER ON TOP OF 7x4x1/2" OF EACH POST POCKET CORRESPONDING TO THE POST NUMBER. THE NUMBER SHALL BE AT LEAST ½" HIGH.
13. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: D.BECKNER
Checked by: D.TRAINA
Reviewed by:
Approved by:

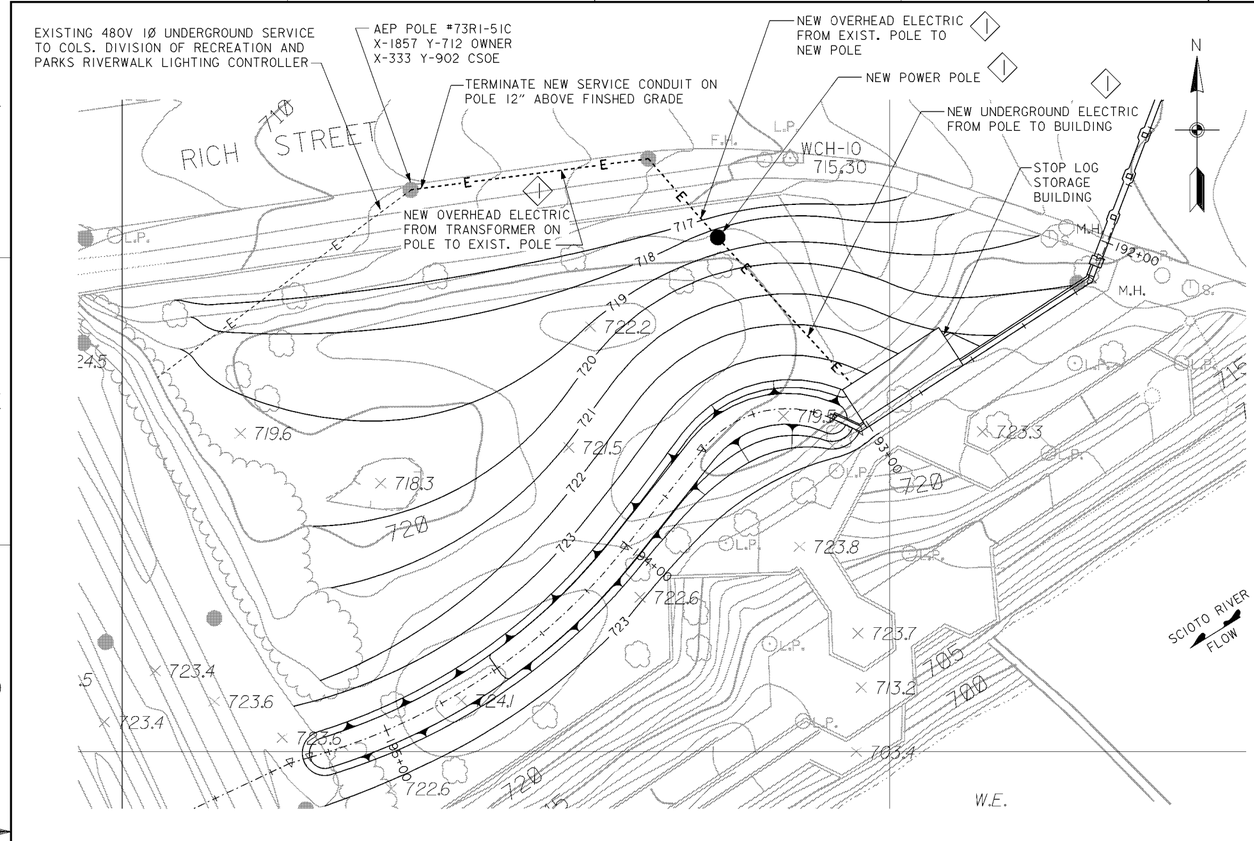
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

EMBEDDED POCKET AND COVER

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/14
FILENAME: a0g5sm02.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'
20' 0 20'

NOTES

1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.
2. FOR INTERIOR DRAINAGE AND SITE GRADING SEE DRAWING NO. 15/2.
3. FOR STOPLOG STORAGE BUILDING DETAILS SEE DRAWING NO. 20.2/16A.
4. FOR TYPICAL I-WALL DETAILS SEE DRAWING NOS. 20.1/1 AND 20.1/2.
5. FOR BUILDING SECTION VIEW SEE DRAWING NO. 20.2/16A.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.OMAN
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

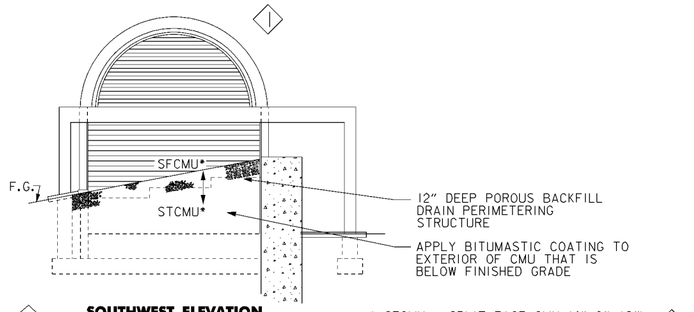
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

STOP LOG STORAGE BUILDING SITE PLAN

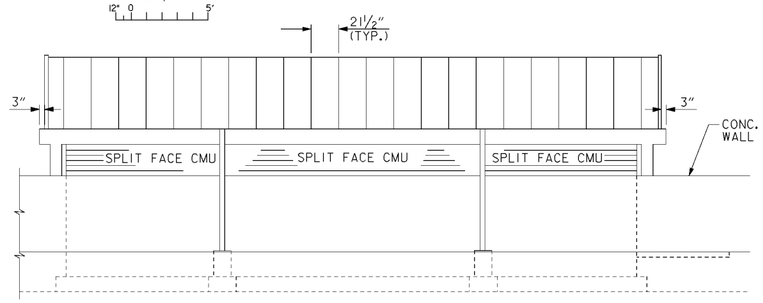
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/15
FILENAME: a0b1pl01.dgn
PRN TABLE:
Sheet 1 of 3

WORK AS CONSTRUCTED

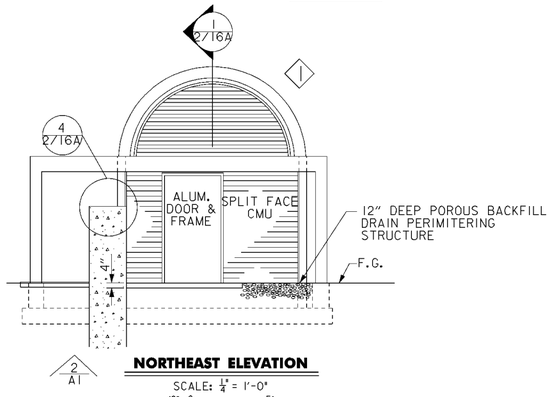


SOUTHWEST ELEVATION
SCALE: 1/4" = 1'-0"

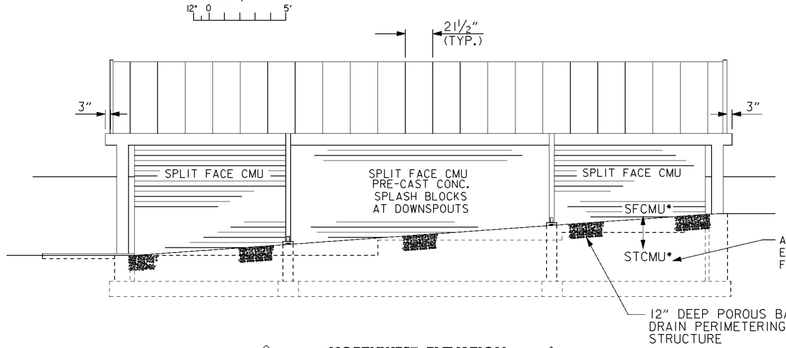
* SFCMU - SPLIT FACE CMU (4"x8"x16")
** STCMU - STANDARD CMU (8"x8"x16")



SOUTHEAST ELEVATION
SCALE: 1/4" = 1'-0"

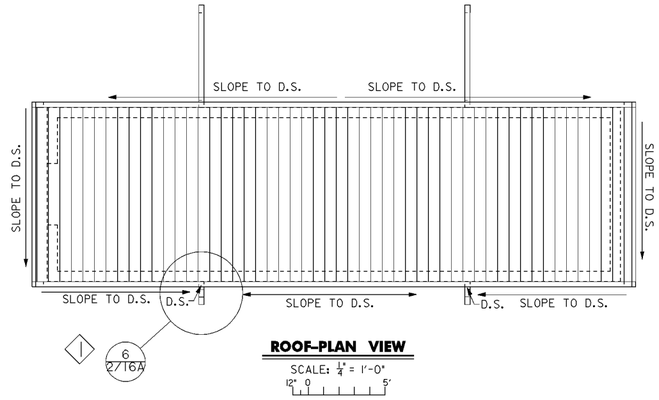


NORTHEAST ELEVATION
SCALE: 1/4" = 1'-0"

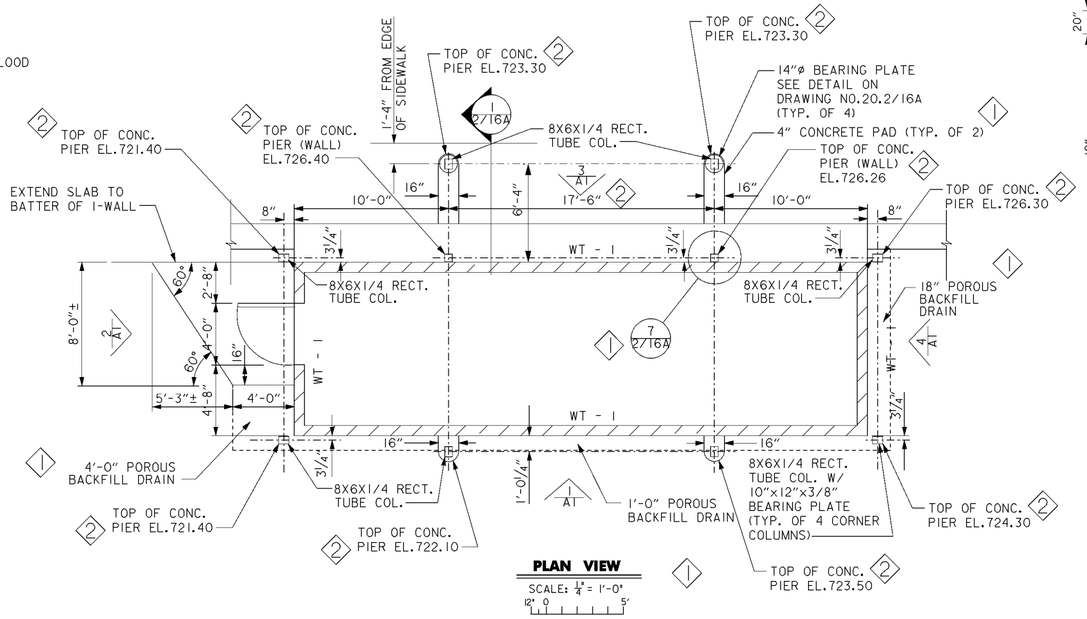


NORTHWEST ELEVATION
SCALE: 1/4" = 1'-0"

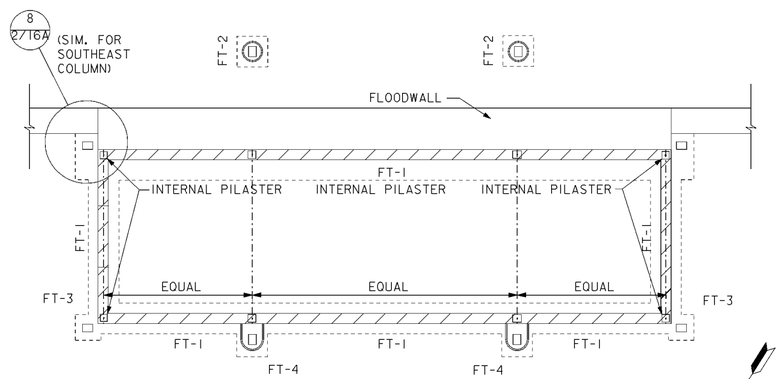
* SFCMU - SPLIT FACE CMU (4"x8"x16")
** STCMU - STANDARD CMU (8"x8"x16")



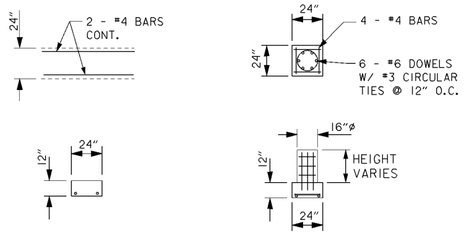
ROOF-PLAN VIEW
SCALE: 1/4" = 1'-0"

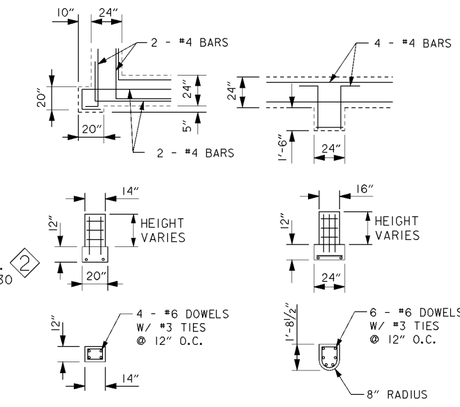


PLAN VIEW
SCALE: 1/4" = 1'-0"



FOUNDATION VIEW
SCALE: 1/4" = 1'-0"





4X8X16 SPLIT FACE CONC. MAS. UNIT WITH TRUSS TYPE REINF. EVERY THIRD COURSE

WALL TYPE 1

Revisions			
Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4-23-98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: B.FACIANE
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

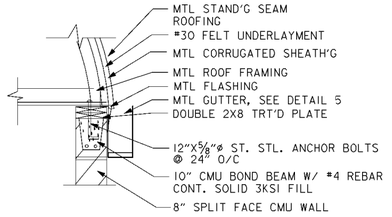
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

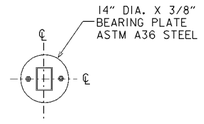
STOP LOG STORAGE BLDG PLAN & ELEV

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/16
FILENAME: a0floodg1.dgn
PEN TABLE:
Sheet 1 of 1

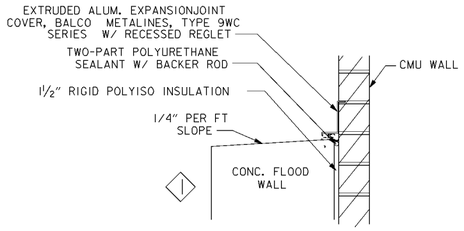
WORK AS CONSTRUCTED



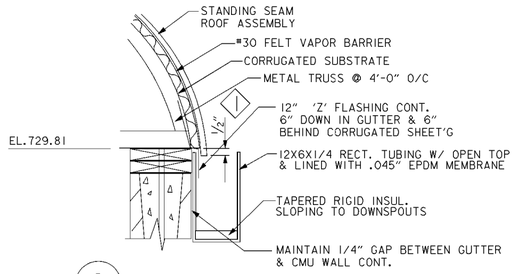
3 / 2/16A **EAVE DETAIL**
SCALE: ¾" = 1'-0"



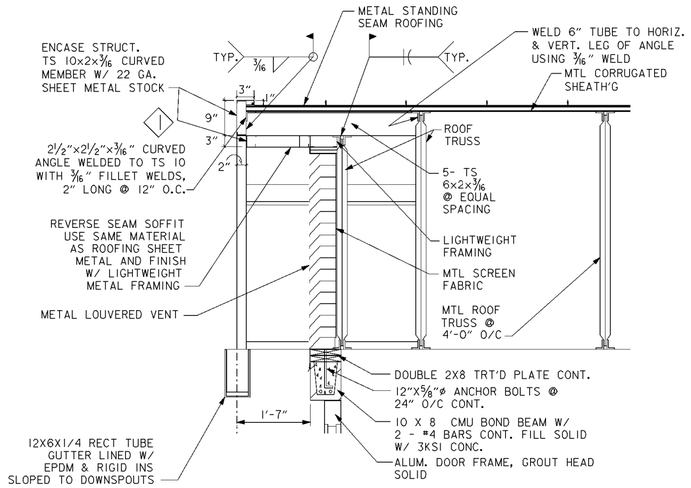
BEARING PLATE (TYP. OF 4) ◇1
SCALE: NONE



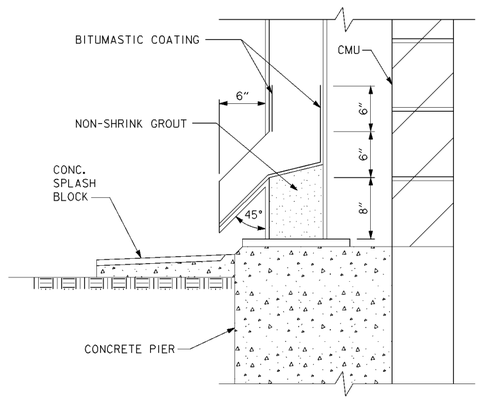
◇1 **FLOOD WALL EXPANSION JOINT** 4 / 2/16A
SCALE: ¾" = 1'-0"



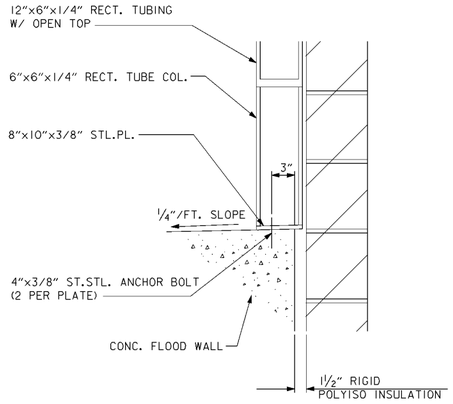
5 / 2/16A **GUTTER DETAIL**
SCALE: 1½" = 1'-0"



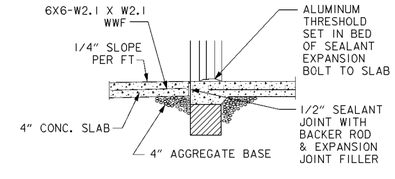
◇1 **VAULT END SECTION** 2 / 2/16A
SCALE: ¾" = 1'-0"



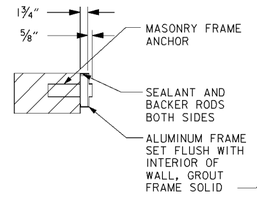
6 / 2/16A **BASE OF DOWNSPOUTS** ◇1
SCALE: 1½" = 1'-0"



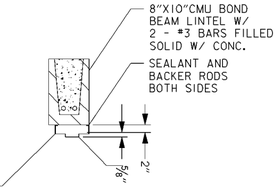
7 / 2/16A **WALL TUBING DETAIL** ◇1
SCALE: 1½" = 1'-0"



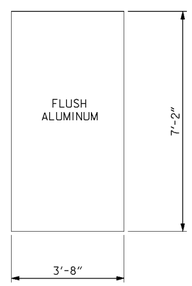
SILL



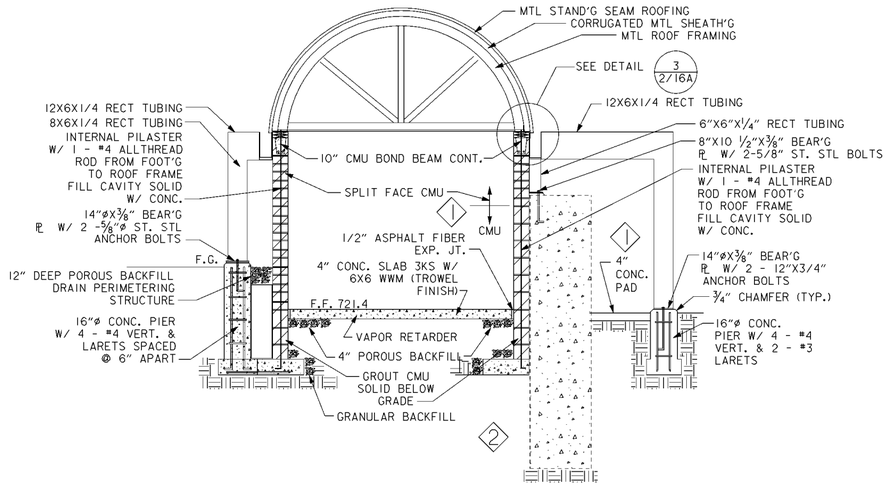
FRAME



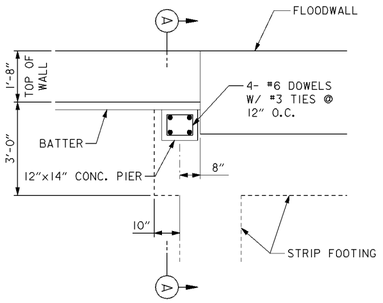
HEAD



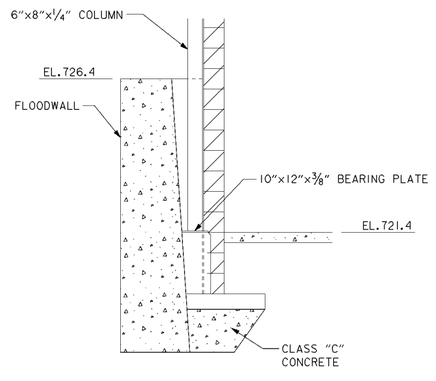
DOOR



BUILDING SECTION VIEW 1 / 2/16A
SCALE: ⅜" = 1'-0"



8 / 2/16A **NORTHEAST COLUMN FOUNDATION** ◇1
(SOUTHEAST COLUMN FOUNDATION SIMILAR)
SCALE: ½" = 1'-0"



◇1 **SECTION A-A**
SCALE: ½" = 1'-0"

Revisions			
Symbol	Descriptions	Date	Approved
◇2	REVISED AS CONSTRUCTED	7/02	P.O.C.
◇1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4-23-98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: B.FACIANE
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

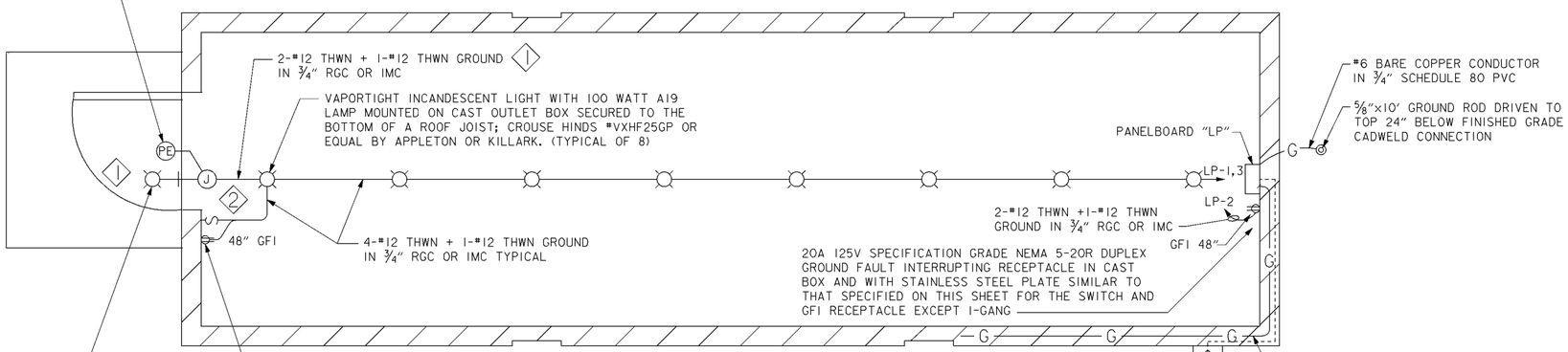
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

STOP LOG STORAGE BUILDING DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/16A
FILENAME: a0floodg2.dgn
PRN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

PHOTO ELECTRIC CONTROL CENTERED ABOVE DOOR ON FACE OF ROOF EDGE. AIM WINDOW NORTH. CONTROL TO BE TORK 2001 OR EQUAL BY INTERMATIC OR PARAGON 120 VOLTS, SPST, RATED 1800 VA. MOUNT ON END OF HORIZONTAL ½" CONDUIT COUPLING AND WIRE TO AREA LIGHT VIA JUNCTION BOX WITH 3-#12 IN ½" RGC OR IMC.



20A 125V SPECIFICATION GRADE NEMA 5-20R DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE AND 20A 125/277V QUIET TYPE SINGLE POLE SPECIFICATION GRADE SWITCH IN 2-GANG CAST IRON OR ALUMINUM FS BOX WITH THREADED BOSSES AND 2 GANG STAINLESS STEEL FLUSH DEVICE PLATE.

OBTAIN 120/240V 1ø, 3-WIRE METER SOCKET FROM CITY OF COLUMBUS, DIVISION OF ELECTRICITY AND MOUNT ON WALL AT 5'-0" ABOVE FINISHED GRADE TO ℄ OF METER.

20 FOOT LENGTH OF #4 BARE COPPER CONDUCTOR INSTALLED IN THE BUILDING FOUNDATION FOOTER PER NEC 250-81(C) FOR BUILDING MAIN GROUNDING ELECTRODE.

2" PVC SCHEDULE 40 ELECTRIC SERVICE CONDUIT MIN. 24" BELOW FINISHED GRADE. PROVIDE PULL TAPE FOR USE OF CITY OF COLUMBUS IN INSTALLING SERVICE CONDUCTORS.

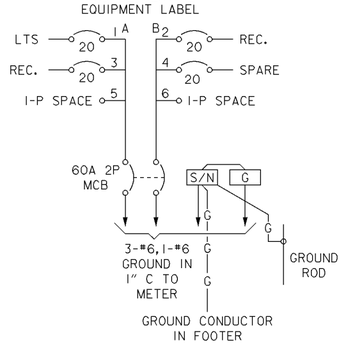
FOR CONTINUATION, SEE DWG. 20.2/15

WALL MOUNTED AREA LIGHT WITH 20 WATT MEDIUM BASE METAL HALIDE LAMP. HOUSING SHALL BE 10½" DIA. DIE CAST ALUMINUM FOR SURFACE MOUNTING WITH DIE CAST ALUMINUM FACE PLATE HAVING DOUBLE VERTICAL AND HORIZONTAL RIBS COVERING THE FULL HEMISPHERICAL MOULDED HEAT TREATED MINIMUM ⅜" THICK GLASS LENS WITH INTERNAL SANDBLAST AND PRISMS. FACE PLATE SHALL BE SECURED TO HOUSING WITH FOUR STAINLESS STEEL FLUSH CAPTIVE SOCKET HEAD SCREWS. OVERALL FIXTURE DEPTH SHALL BE 8⅝". FINISH SHALL BE A CHROMATE PRIMER WITH A LIGHT GRAY COLOR POLYESTER POWDER TOP COAT. FIXTURE SHALL BEAR UL WET LOCATION LABEL. BALLAST SHALL BE 120 VOLT NORMAL POWER FACTOR WITH SINGLE FUSE. LAMP SOCKET SHALL BE MEDIUM BASE SCREW SHELL, 4KV PORCELAIN WITH SPRING LOADED CENTER CONTACT. FIXTURE SHALL BE KIM WF 20/P/70-MH 120/LG-P/SF OR APPROVED EQUAL, COMPLETE WITH LAMP. MOUNT CENTERED IN BOND BEAM ABOVE DOOR. CIRCUIT TO INTERIOR LIGHTING CIRCUIT AHEAD OF ANY LOCAL SWITCHING. WIRE FIXTURE THROUGH 1/2" RGC OR IMC THROUGH A BORED HOLE IN BOND BEAM FROM A JUNCTION BOX ON INSIDE FACE OF BEAM.

PLAN VIEW

SCALE: 1/4" = 1'-0"

120/240V 1ø 3W LOAD CENTER WITH 10,000 A/C CIRCUIT BREAKERS AND UL SERVICE EQUIPMENT LABEL



PANELBOARD "LP"

SCALE: NONE

ELECTRICAL SPECIFICATIONS

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE OHIO BASIC BUILDING CODE, THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL CODES AS A MINIMUM STANDARD, AND THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.
   a. ALL MATERIALS AND EQUIPMENT FOR WHICH UNDERWRITERS LABORATORIES EXAMINATION SERVICE IS AVAILABLE SHALL BE SO INSPECTED AND TESTED AND SHALL BEAR THE UL LABEL.
2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY PREVAILING CODE, LAW OR ORDINANCE AND SHALL CORRECT ALL DEFICIENCES ENUMERATED BY THE LAWFUL INSPECTOR PRIOR TO FINAL PAYMENT OF THE CONTRACT.
3. ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY AND ARE INTENDED TO INDICATE THE APPROXIMATE LOCATIONS OF SWITCH, RECEPTACLES, AND LIGHTING FIXTURES. THE EXACT LOCATIONS AND ROUGH-IN DIMENSIONS FOR ALL WORK AND EQUIPMENT SHALL BE OBTAINED FROM THE CONTRACTING OFFICER IN THE FIELD AS THE WORK PROGRESSES. SHOULD THE ELECTRICAL CONTRACTOR FAIL TO PROPERLY ASCERTAIN SUCH LOCATIONS OR DIMENSIONS, HE SHALL CHANGE SUCH WORK AT HIS OWN EXPENSE WHEN SO DIRECTED BY THE CONTRACTING OFFICER. THE CONTRACTING OFFICER RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF ANY ELECTRICAL WORK OR EQUIPMENT PRIOR TO ROUGH-IN WITH NO ADDITIONAL COST.
4. GROUNDING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.

Revisions			
Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4-23-98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.AYRES
Drawn by: A.PUMMEL
Checked by: D.SCHAMP
Reviewed by:
Approved by:

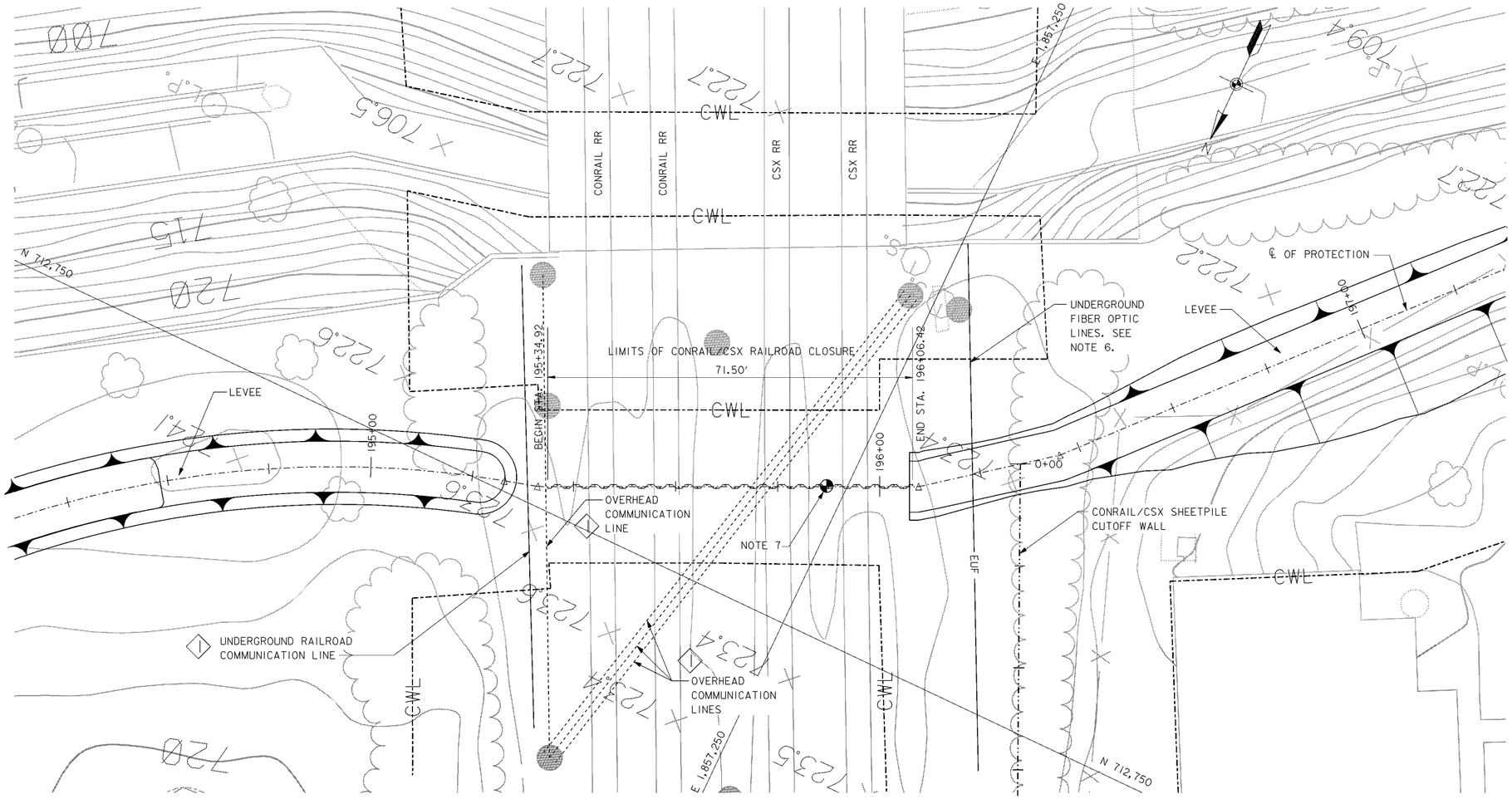
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

STOP LOG STORAGE BUILDING ELECTRICAL

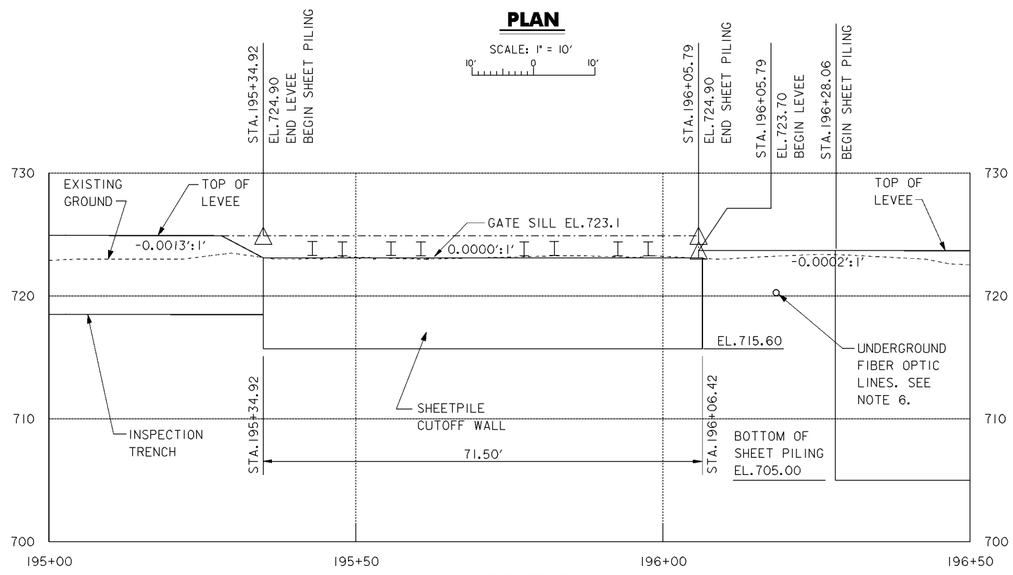
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/17
FILENAME: a0floodep1.dg
PEN TABLE:
Sheet 3 of 3

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 10'



PROFILE

SCALE IN FEET

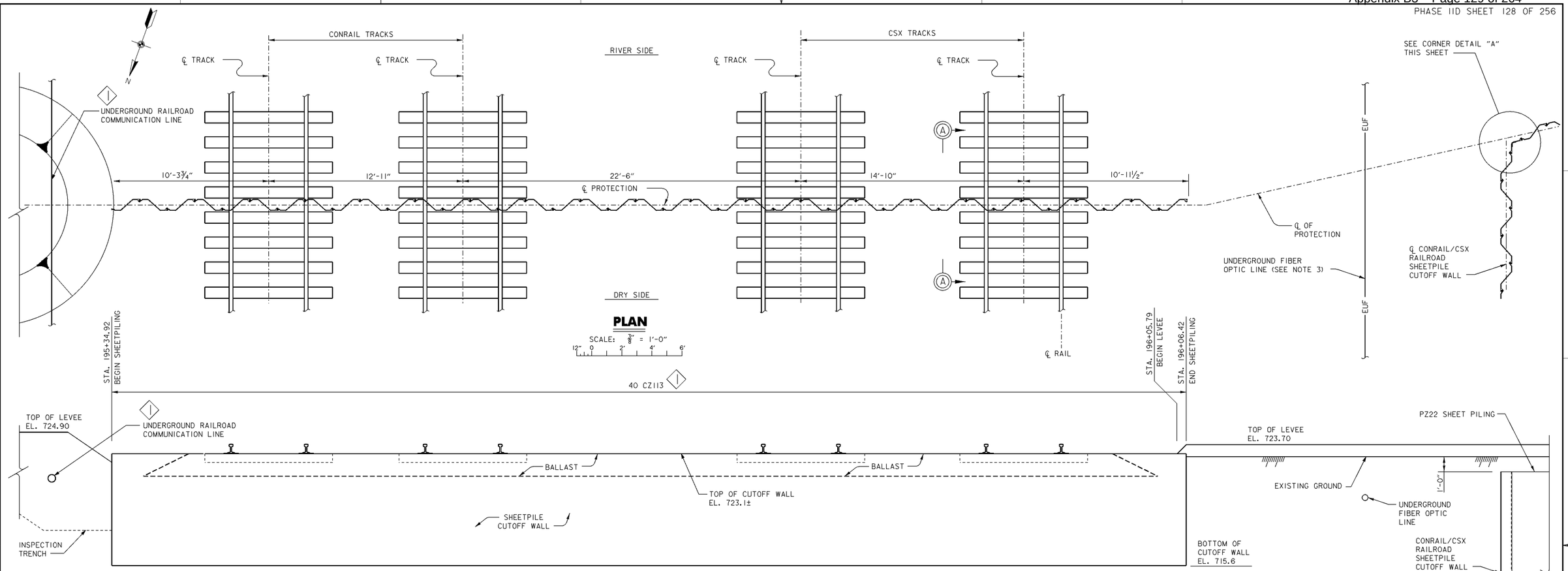
NOTES

1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.
2. FOR CONRAIL/CSX RAILROAD CLOSURE DETAILS SEE DRAWING NO.20.2/19.
3. FOR CONRAIL/CSX SHEETPILE CUTOFF WALL SEE DRAWING NO.20.2/20.
4. FOR INTERIOR DRAINAGE AND GRADING AT RICH STREET SEE DRAWING NO. 15/2.
5. AT ALL LOCATIONS WHERE PILING IS PROPOSED DIRECTLY BENEATH RAIL A NOTCH 18-INCHES WIDE BY 5-INCHES DEEP CENTERED ON THE RAIL CENTERLINE, SHALL BE CUT FROM THE PROPOSED PILING TO PREVENT SHUNTING ACROSS THE TRACK AND DISRUPTION OF THE RAILROAD'S SIGNAL.
6. MULTIPLE EXISTING FIBER OPTIC LINES (2 MCI AND SPRINT) LOCATED IN RAILROAD RIGHT-OF-WAY SOUTH OF CONRAIL/CSX TRACKS. THE CONTRACTOR SHALL HAVE LINES LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION AND PLACEMENT OF THE EMBANKMENT OR PILING.
7. CENTERLINE OF CONRAIL/CSX RAILROAD CLOSURE CORRESPONDS TO CSX MILE POST CK1.56.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

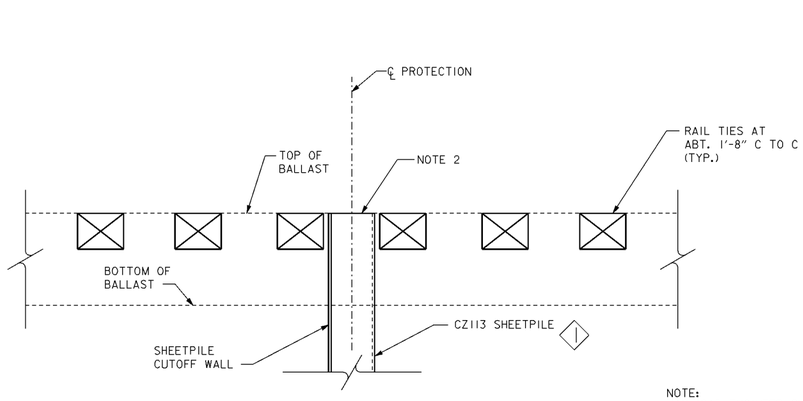
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: T.MULLINS	CONRAIL/CSX RR
Checked by: P.CONROY	CLOSURE PLAN & PROFILE
Reviewed by:	Scale: AS SHOWN
Approved by:	Date: MARCH 1998
	Drawing Code: 16-PWC-10-
	Sheet reference number: 20.2/18
	FILENAME: a0g7pp01.dgn PEN TABLE:
	Sheet 1 of 1

WORK AS CONSTRUCTED



PROFILE

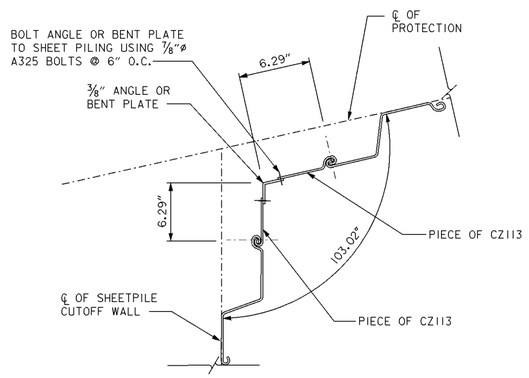
SCALE: ⅜" = 1'-0"



SECTION A–A

SCALE: 1" = 1'-0"

NOTE:
RAILROAD ENGINEER SHALL ALIGN TIES TO CLEAR CUTOFF WALL.



CORNER DETAIL "A"

SCALE: NONE

SEQUENCE OF CONSTRUCTION

1. CONRAIL WILL REMOVE OUTER CONRAIL TRACK FROM SERVICE.
2. CONRAIL WILL REMOVE OUTER CONRAIL TRACK RAILS AND TIES.
3. CONTRACTOR SHALL DRIVE PILING AS ADJACENT RAIL TRAFFIC ALLOWS.
4. CONRAIL WILL REPLACE OUTER TRACK RAILS AND TIES.
5. CONRAIL WILL RESTORE OUTER TRACK TO SERVICE.
6. CONRAIL WILL REMOVE INNER CONRAIL TRACK FROM SERVICE.
7. CONRAIL WILL REMOVE INNER CONRAIL TRACK RAILS AND TIES.
8. CONTRACTOR SHALL DRIVE PILING TO MIDPOINT AS RAIL TRAFFIC ALLOWS.
9. CONRAIL WILL REPLACE INNER TRACK RAILS AND TIES AND RESTORE TO SERVICE.
10. CONTRACTOR SHALL MOVE EQUIPMENT TO OTHER SIDE.
11. CSX WILL ADJUST AERIAL SIGNAL LINE, AS NECESSARY, TO ACCOMMODATE CONTRACTOR'S WORK AND EQUIPMENT.
12. CSX WILL REMOVE INNER CSX TRACK FROM SERVICE.
13. CSX WILL REMOVE INNER CSX TRACK RAILS AND TIES.
14. CONTRACTOR SHALL DRIVE PILING AS RAIL TRAFFIC ALLOWS.
15. CSX WILL REPLACE INNER CSX TRACK TIES AND RAILS.
16. CSX WILL RESTORE INNER CSX TRACK TO SERVICE.
17. CSX WILL REMOVE OUTER CSX TRACK FROM SERVICE.
18. CSX WILL REMOVE OUTER CSX TRACK TIES AND RAILS.
19. CONTRACTOR SHALL DRIVE PILING AS ADJACENT RAIL TRAFFIC ALLOWS.
20. CSX WILL REPLACE OUTER CSX TRACK RAILS AND TIES.
21. CSX WILL RESTORE OUTER CSX TRACK TO SERVICE.

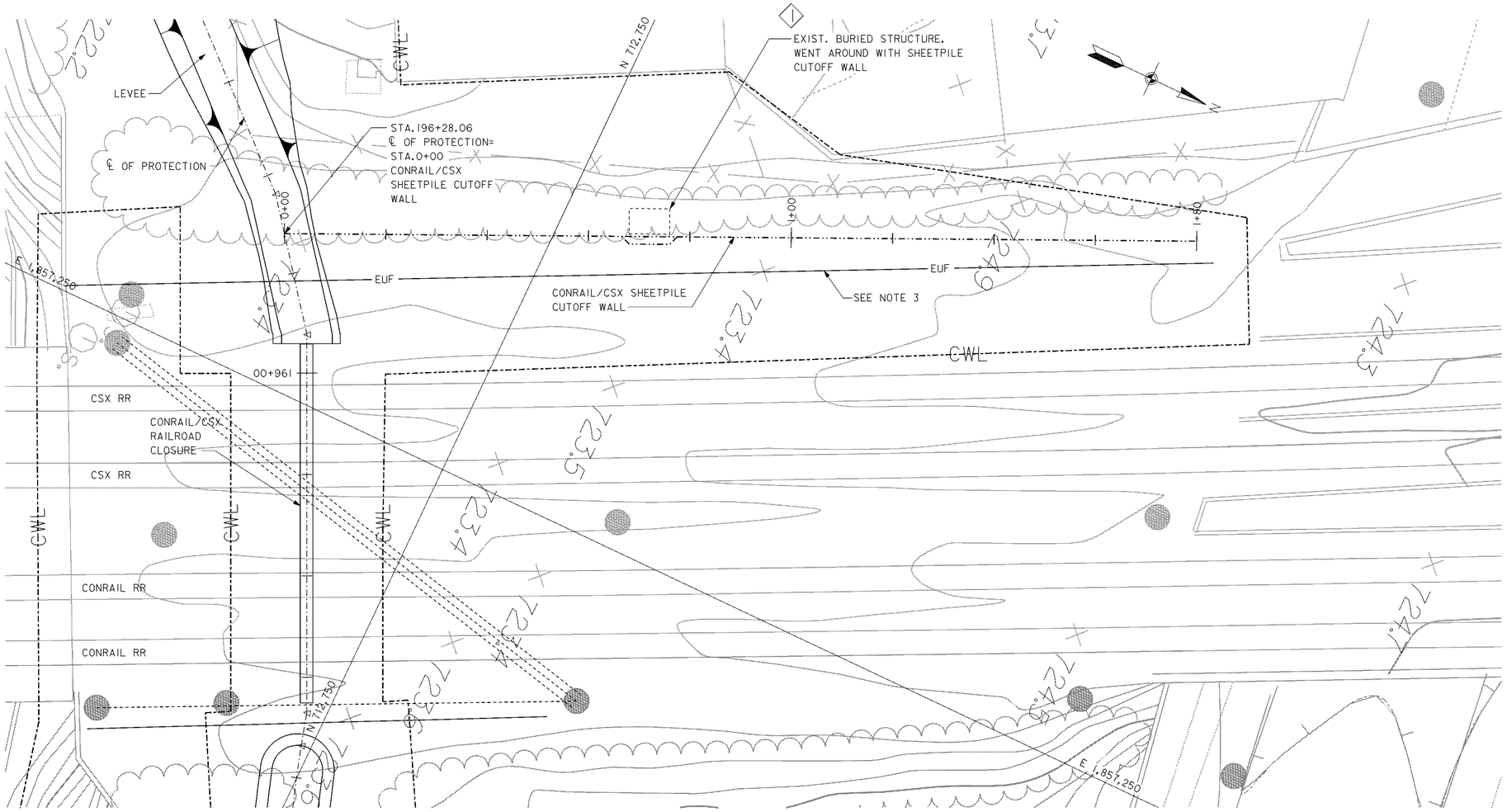
NOTES

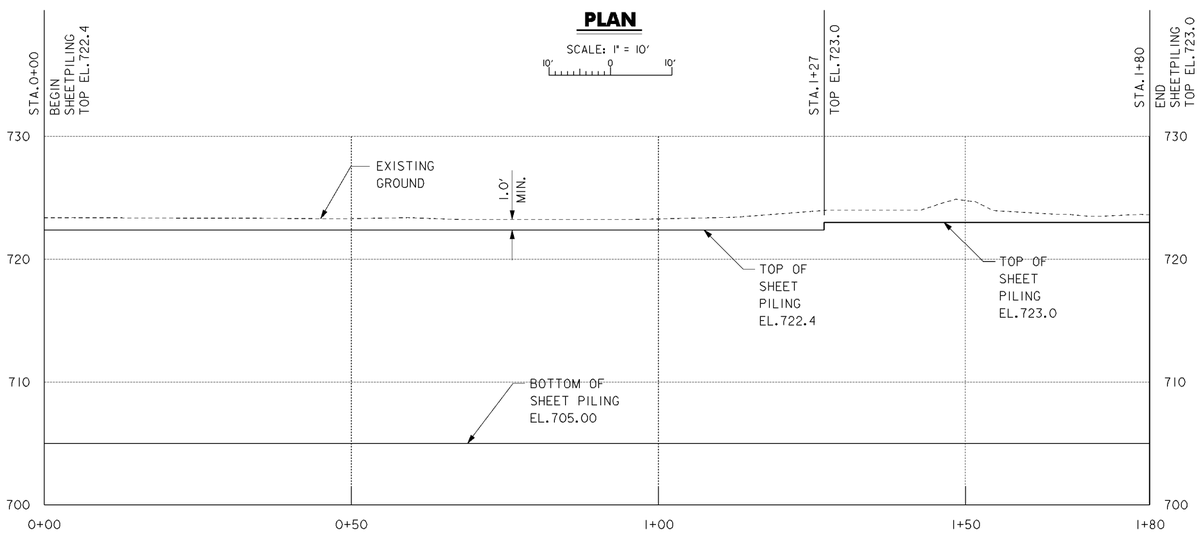
1. FOR CONRAIL/CSX RAILROAD SHEETPILE CUTOFF WALL DETAILS SEE DRAWING NO.20.2/20.
2. AT ALL LOCATIONS WHERE PILING IS PROPOSED DIRECTLY BENEATH RAIL A NOTCH 18-INCHES WIDE BY 5-INCHES DEEP, CENTERED ON THE RAIL CENTERLINE, SHALL BE CUT FROM THE TOP OF THE PROPOSED PILING TO PREVENT SHUNTING ACROSS THE TRACK AND DISRUPTION OF THE RAILROAD'S SIGNAL.
3. MULTIPLE EXISTING FIBER OPTIC LINES (2 MCI AND SPRINT) LOCATED IN RAILROAD RIGHT-OF-WAY SOUTH OF CONRAIL/CSX TRACKS. THE CONTRACTOR SHALL HAVE LINES LOCATED BY THE OWNING COMPANY PRIOR TO EXCAVATION AND PLACEMENT OF EMBANKMENT OR PILING.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: T.MULLINS	**CONRAIL/CSX RR CLOSURE DETAILS**
Checked by: P.CONROY	
Reviewed by:	Scale: AS SHOWN
Approved by:	Date: MARCH 1998
	Drawing Code: 16-PWC-10-
	Sheet reference numbers: 20.2/19
	FILENAME: a0g7pp02.dgn PEN TABLE:
	Sheet 1 of 1

WORK AS CONSTRUCTED





NOTES

1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.
2. FOR CONRAIL/CSX RAILROAD CLOSURE DETAILS SEE DRAWING NO.20.2/19.
3. MULTIPLE EXISTING FIBER OPTIC LINES (2 MCI AND SPRINT) LOCATED IN RAILROAD RIGHT-OF-WAY SOUTH OF CONRAIL/ CSX TRACKS. THE CONTRACTOR SHALL HAVE LINES LOCATED BY OWNING COMPANY PRIOR TO EXCAVATION AND PLACEMENT OF EMBANKMENT OR PILING.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

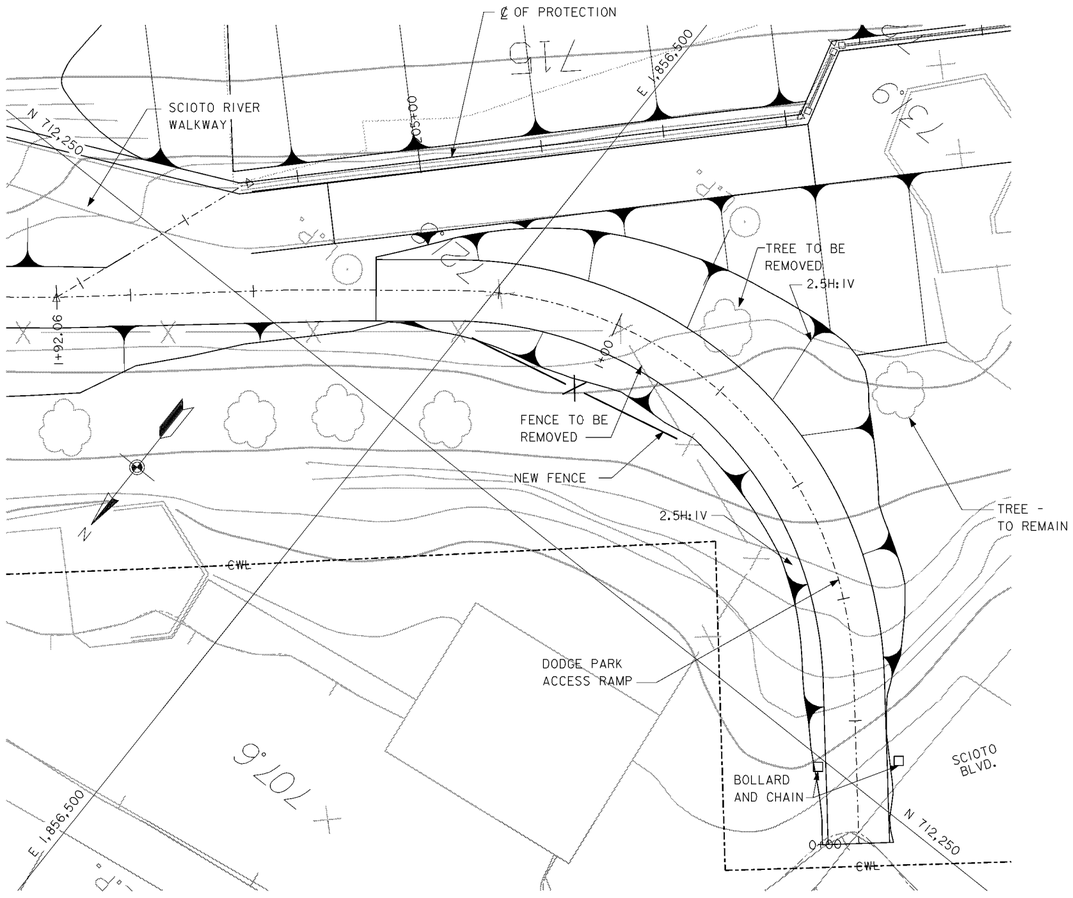
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CONRAIL/CSX RR SHEETPILE CUTOFF WALL

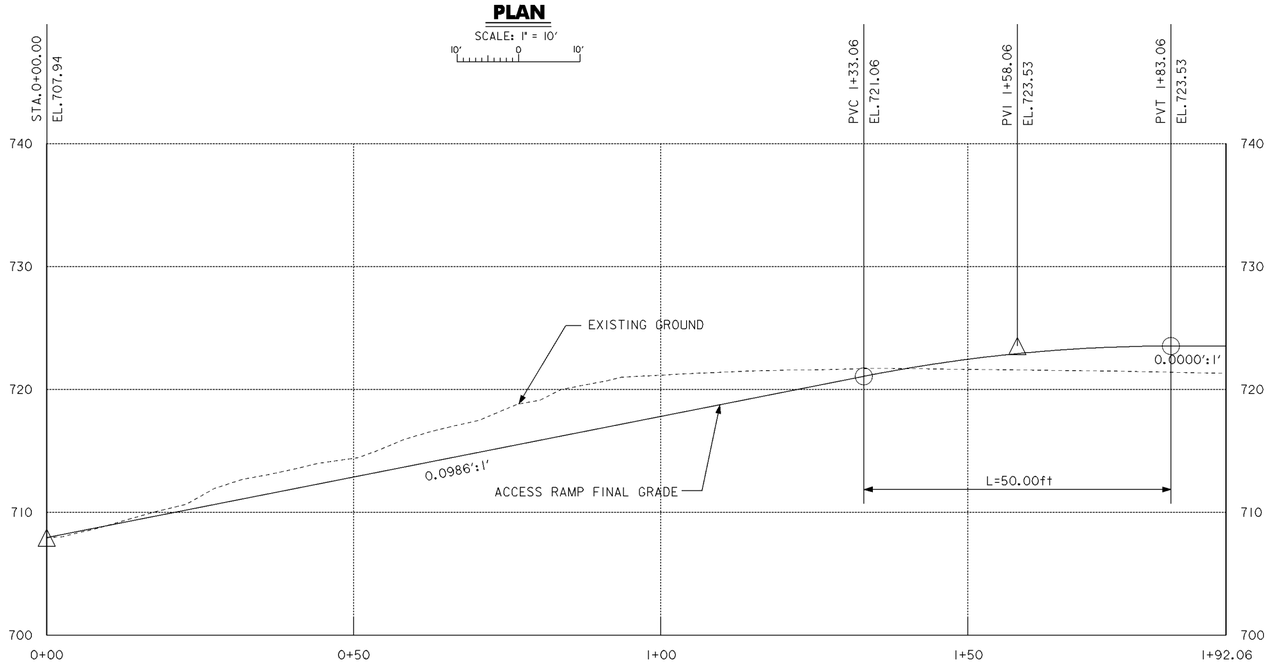
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/20
FILENAME: a0eppp07.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



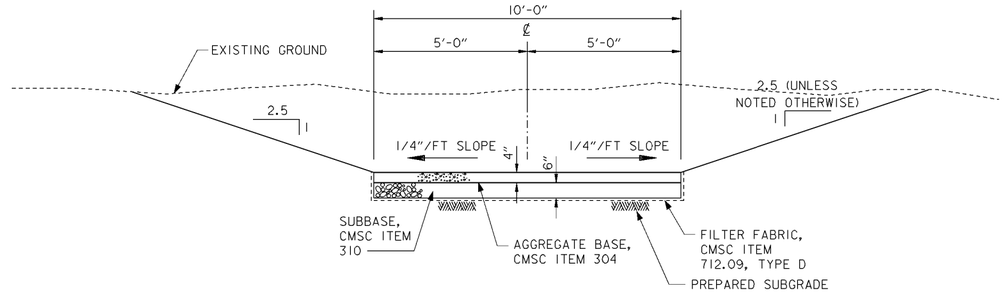
PLAN

SCALE: 1" = 10'



PROFILE

SCALE IN FEET



TYPICAL ACCESS RAMP SECTION STA. 0+00 TO STA. 1+40.00

NOTE: FROM STA.1+40 TO 1+92.06 ACCESS RAMP TO BE GRASSED 6-INCH TOPSOIL LAYER OVER IMPERVIOUS FILL.

SCALE: 1/2" = 1'-0"

12" 0 1' 2' 3' 4'

HORIZONTAL ALIGNMENT

	STATION	NORTH(Y)	EAST(X)
Element: LINEAR			
POB	0+00.00	712257.020	1856397.628
PC	0+27.13	712236.333	1856415.181
Tangent Direction:	S 40°18'53.78" E		
Tangent Length:	27.131		
Element: CIRCULAR CURVE			
PC	0+27.13	712236.333	1856415.181
PI	0+90.00	712188.395	1856455.857
CC		712278.387	1856464.744
PT	1+27.07	712227.451	1856505.123
Curve Radius:	-65.000		
Curve Length:	99.936		
Total Central Angle:	88°05'26.11"		
1st Subtangent Distance:	62.869		
2nd Subtangent Distance:	62.869		
Element: LINEAR			
PT	1+27.07	712227.451	1856505.123
PI	1+54.25	712244.336	1856526.423
Tangent Direction:	N 51°35'40.11" E		
Tangent Length:	27.181		
Element: LINEAR			
PI	1+54.25	712244.336	1856526.423
POE	1+92.06	712268.800	1856555.250
Tangent Direction:	N 49°40'49.57" E		
Tangent Length:	37.809		

NOTES

1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.
2. FOR BOLLARD AND CHAIN DETAIL SEE DRAWING NO.20.2/27.
3. FOR SCIOTO RIVER WALKWAY SEE DRAWING NOS. 20.5/2 THRU 20.5/4.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: J.HALL
Reviewed by:
Approved by:

US Army Corps of Engineers

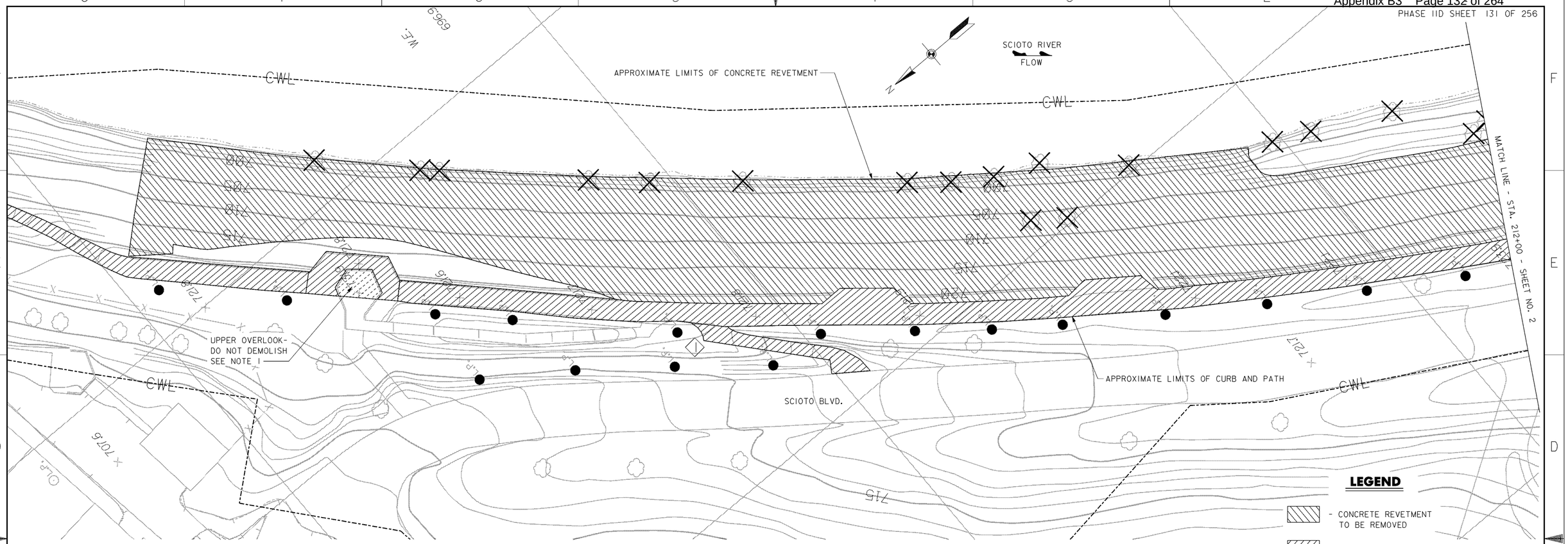
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

DODGE PARK ACCESS RAMP PLAN & DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/21
FILENAME: 00a4pp01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

PHASE IID SHEET 131 OF 256



PLAN

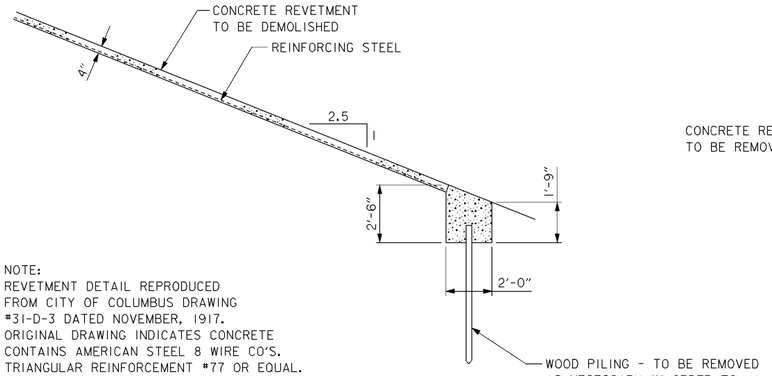
SCALE: 1" = 20'
20' 0 20'

LEGEND

- CONCRETE REVETMENT TO BE REMOVED
- CONCRETE CURB AND ASPHALT PATH TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN - UNLESS OTHERWISE DESIGNATED BY CONTRACTING OFFICER
- EXISTING LIGHT POLE, FIXTURE AND ELECTRICAL WIRING TO BE REMOVED TO CONCRETE BASE. ELECTRICAL WIRING TO BE CAPPED FOR FUTURE USE.

NOTES

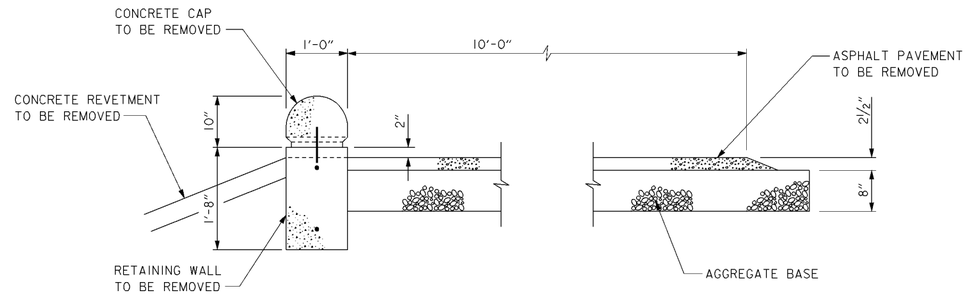
1. REMOVE AND RESET UPPER OVERLOOK TO ACCOMMODATE INSTALLATION OF SHEET PILING AND FORCE MAINS.



NOTE:
REVETMENT DETAIL REPRODUCED
FROM CITY OF COLUMBUS DRAWING
#31-D-3 DATED NOVEMBER, 1917.
ORIGINAL DRAWING INDICATES CONCRETE
CONTAINS AMERICAN STEEL 8 WIRE CO'S.
TRIANGULAR REINFORCEMENT #77 OR EQUAL.

TYPICAL EXISTING REVETMENT SECTION

SCALE: 3/8" = 1'-0"
12" 0 2' 4' 6'



TYPICAL EXISTING CONCRETE CURB AND ASPHALT PAVEMENT SECTION

SCALE: 1" = 1'-0"
1' 0 1'

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

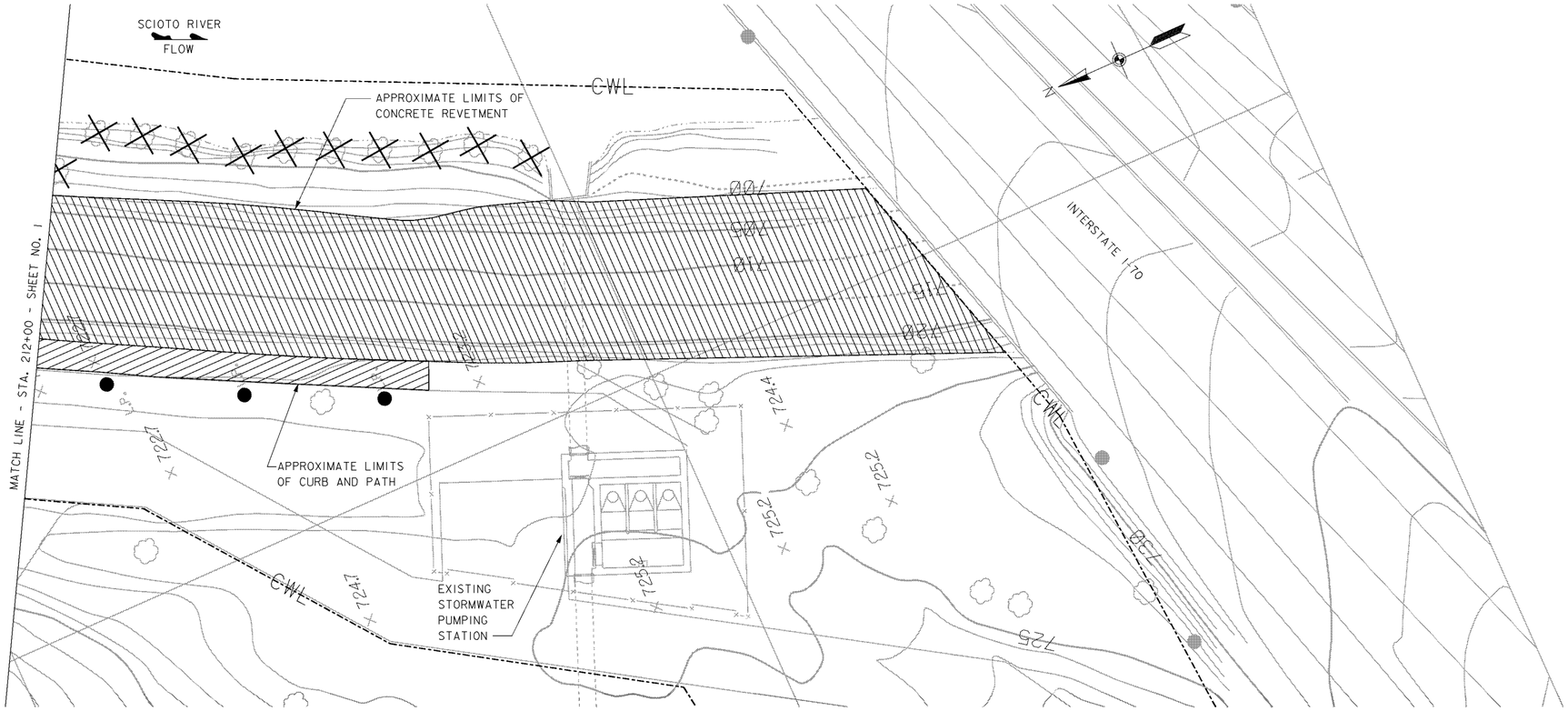
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

DODGE PARK DEMO PLAN (1 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/22
FILENAME: a0dmpl01.dgn
PEN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'

20' 0 20'

LEGEND

- CONCRETE REVETMENT TO BE REMOVED
- CONCRETE CURB AND ASPHALT PATH TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN - UNLESS OTHERWISE DESIGNATED BY CONTRACTING OFFICER
- EXISTING LIGHT POLE, FIXTURE AND ELECTRICAL WIRING TO BE REMOVED TO CONCRETE BASE. ELECTRICAL WIRING TO BE CAPPED FOR FUTURE USE.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

DODGE PARK DEMO PLAN (2 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/23
FILENAME: PEN TABLE: 00dmpl02.dgn
Sheet 2 of 2

WORK AS CONSTRUCTED

SCIOTO RIVER FLOW
STA.204+76.86
℄ SCIOTO RIVER WALKWAY
N 712,250
E 1,856,500
N 712,000
E 1,856,250
N 711,750
CWL
T/W EL.725.3
EL.724.08
FILL TO GRADE OF PATH
OVERLOOK NO. 1 SEE NOTE 10
T/W EL.724.4
EL.722.11
EL.722.91±
HIGH POINT
LANDSCAPED AREA
ASPHALT WALK
OVERLOOK NO. 2
T/W EL.723.6
℄ OF PROTECTION
+ EL.721.8
OVERLOOK NO. 3
+ EL.722.5
+ EL.723.0
RIVERBANK TREATMENT AREA
TREE TO REMAIN
℄ DODGE PARK ACCESS RAMP
SAWCUT @ STA.208+00
SCIOTO BLVD.
ASPHALT WALK
MATCH LINE - DRAWING NO. 20.2/25
SAWCUT @ END OF VERTICAL CURVE SCIOTO RIVER WALKWAY STA.19+65.43 (℄ PROTECTION STA.204+84.69) SEE DRAWING NO.20.5/4

NOTES

1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.
2. FOR DODGE PARK DEMOLITION SEE DRAWING NOS. 20.2/22 AND 20.2/23.
3. FOR DODGE PARK OVERLOOK PLANS AND DETAILS SEE DRAWING NOS. 20.2/26 THRU 20.2/28.
4. FOR CONTINUATION OF SCIOTO RIVER WALKWAY SEE DRAWING NOS. 20.5/2 THRU 20.5/4
5. REMOVE TWO EXISTING CONCRETE COLUMNS AND PLATFORM TO ALLOW FOR INSTALLATION OF SHEET PILING AND FORCE MAINS. REPLACE IN KIND.
6. THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF AMERICAN ELECTRIC POWER CONDUITS AT ALL EXCAVATIONS ALONG PATH.
7. FOR DODGE PARK LANDSCAPING PLAN SEE DRAWING NOS. 12/8 AND 12/9.
8. FOR DODGE PARK RIVERBANK TREATMENT TYPICAL SECTION SEE DRAWING NO. 20.2/25.
9. FOR SANITARY FORCE MAIN LAYOUT BELOW PATH SEE DRAWING NOS. 20.4/2 THRU 20.4/7.
10. FOR DODGE PARK OVERLOOK #1 PAVEMENT PLAN SEE DRAWING NO.20.2/28.
11. LIMITS FOR PAVEMENT REMOVAL SHALL BE BETWEEN STATIONS 204+84.69 TO 208+00.

LEGEND

- ASPHALT WALK
- CONCRETE PAVEMENT
+ EL.721.8 - PROPOSED ELEVATION
- DRAINAGE FLOW
T/W - TOP OF WALL

PLAN

SCALE: 1" = 20'

SECTION A–A

SCALE: 1/4" = 1'-0"

EL.742.0
EXISTING OVERLOOK TO BE REMOVED AND REUSED
EL.732.0
EXISTING CONCRETE COLUMNS (NOTE 5)
EL.724.4
EL.722.11
EL.720.5
EL.718.5
EL.719.0
EL.713.30±
REMOVED ELECTRICAL CONDUIT. SEE NOTE 6.
PZ22 SHEET PILING
CONCRETE FILL
36" FORCE MAIN
10" FORCE MAIN

SECTION B–B

SCALE: 1/2" = 1'-0"

DETAIL 1 THIS SHEET
10' WIDE PAVEMENT
1'-9"
2½" ASPHALT CONCRETE SURFACE COARSE: CMSC 404
8" ASPHALT CONCRETE AGGREGATE BASE: CMSC 304
8"
EL.722.5
2'-0" (TYP.)
EL.720.5
6" (TYP.)
PZ22 SHEET PILING

DETAIL 1

SCALE: 1 1/2" = 1'-0"

1" CHAMFER
6"
1"
1"

SECTION C–C

SCALE: 1/2" = 1'-0"

BOLLARD AND RAILING
2½" ASPHALT CONCRETE SURFACE COARSE: CMSC 404
8" CRUSHED AGGREGATE BASE: CMSC 304

Revisions			
Symbol	Descriptions	Date	Approved
3	REVISED AS CONSTRUCTED	7/02	P.O.C.
2	REV. BY CONTRACT MODIFICATION LETTER MC021	2/00	P.O.C.
1	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

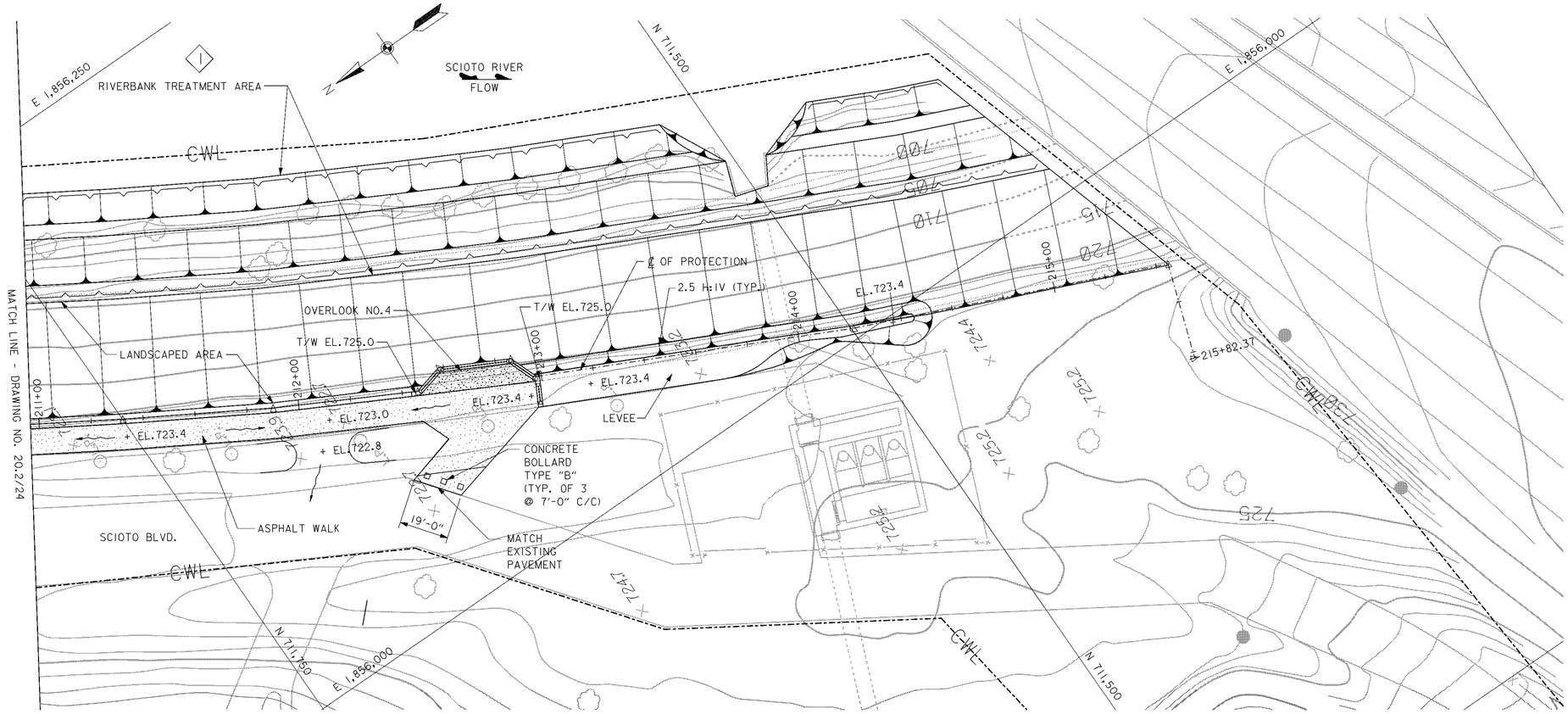
US Army Corps of Engineers

SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID

DODGE PARK SITE PLAN (1 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/24
FILENAME: a0o3pa01.dgn
PEN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED



LEGEND

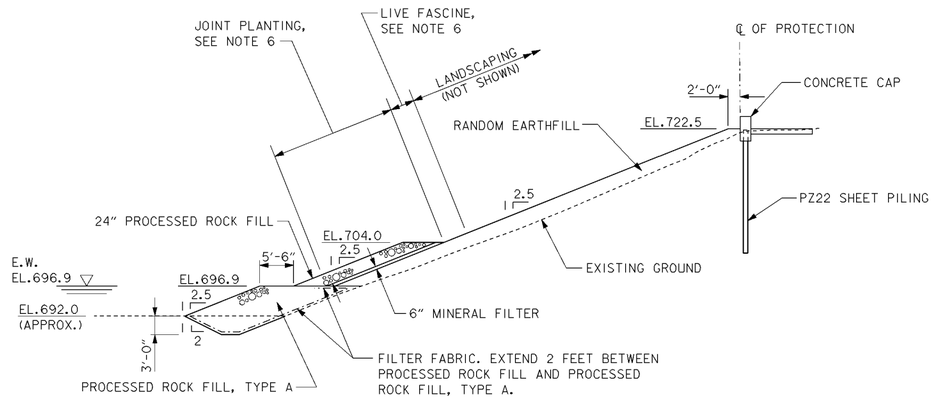
- ASPHALT WALK
- CONCRETE PAVEMENT
+ EL.721.8 - PROPOSED ELEVATION
- DRAINAGE FLOW
T/W - TOP OF WALL

NOTES

1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/7.
2. FOR DODGE PARK DEMOLITION SEE DRAWING NOS. 20.2/22 AND 20.2/23.
3. FOR DODGE PARK PATH AND OVERLOOK DETAILS SEE DRAWING NOS. 20.2/26 THRU 20.2/28.
4. FOR DODGE PARK LANDSCAPING PLAN SEE DRAWING NOS. 12/8 AND 12/9.
5. FOR SANITARY FORCE MAIN LAYOUT BELOW PATH SEE DRAWING NOS. 20.4/2 THRU 20.4/7.
6. FOR RIVERBANK TREATMENT LANDSCAPING DETAILS SEE DRAWING NO. 12/10.

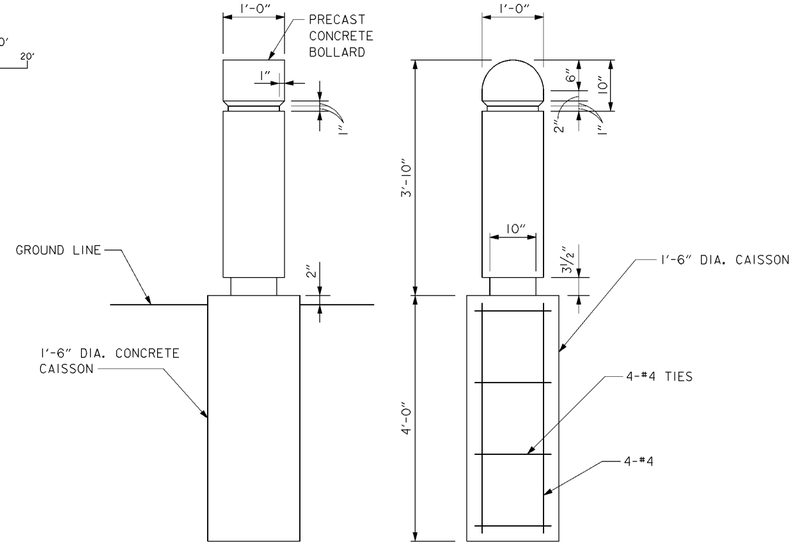
PLAN

SCALE: 1" = 20'



DODGE PARK RIVERBANK TREATMENT TYPICAL SECTION

SCALE: 1" = 10'



ELEVATION SECTION

CONCRETE BOLLARD TYPE "B"

SCALE: 1" = 1'-0"

Revisions			
Symbol	Descriptions	Date	Approved
1	REV. BY CONTRACT MODIFICATION LETTER MC002	11/98	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

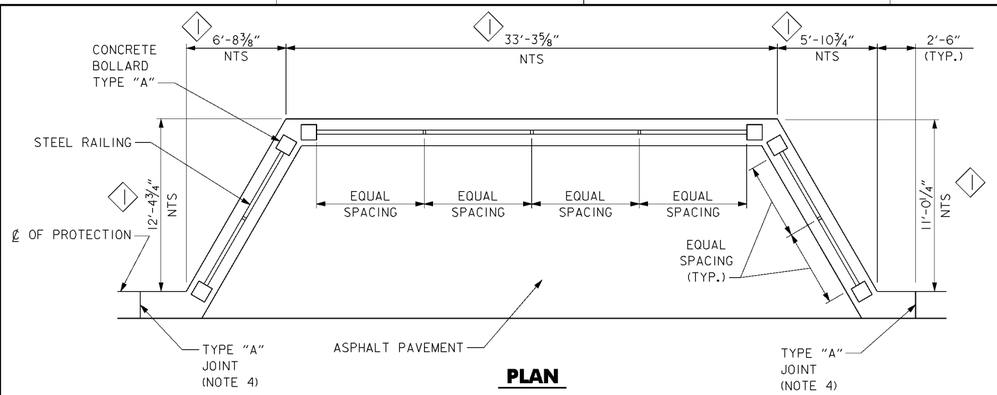
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

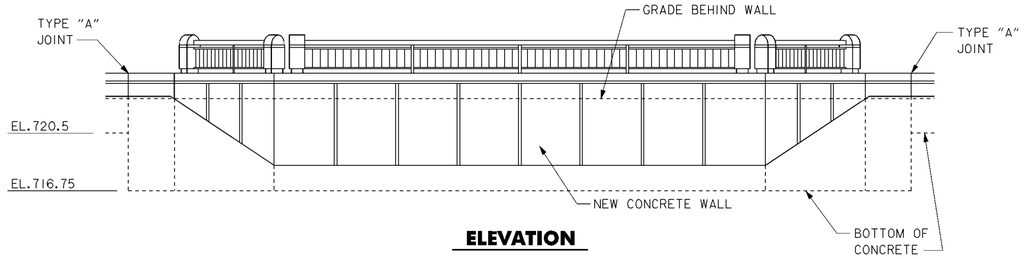
DODGE PARK SITE PLAN (2 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/25
FILENAME: 00a3pc02.dgn
PEN TABLE:
Sheet 2 of 2

WORK AS CONSTRUCTED



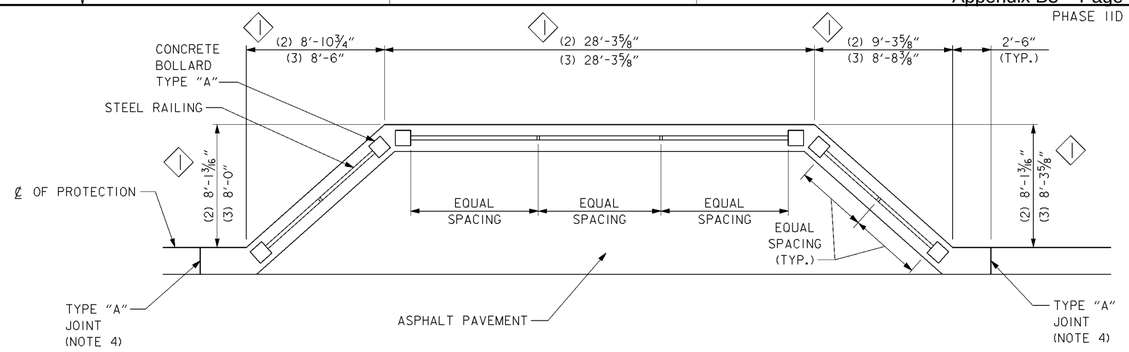
PLAN



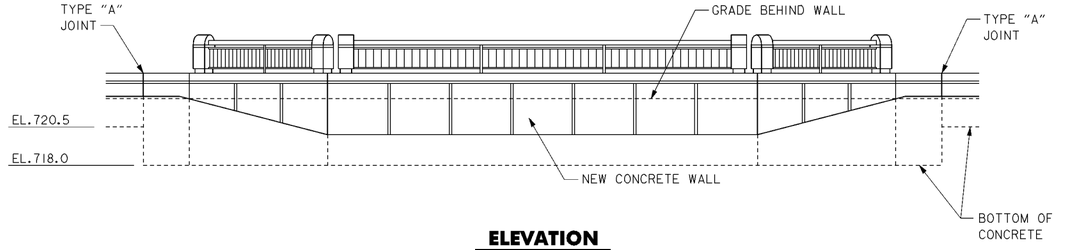
ELEVATION

OVERLOOK NO.1

SCALE: 1/4" = 1'-0"



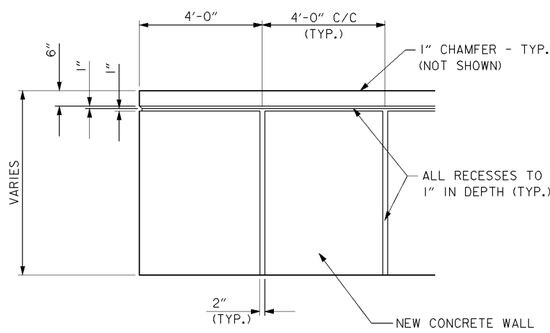
PLAN



ELEVATION

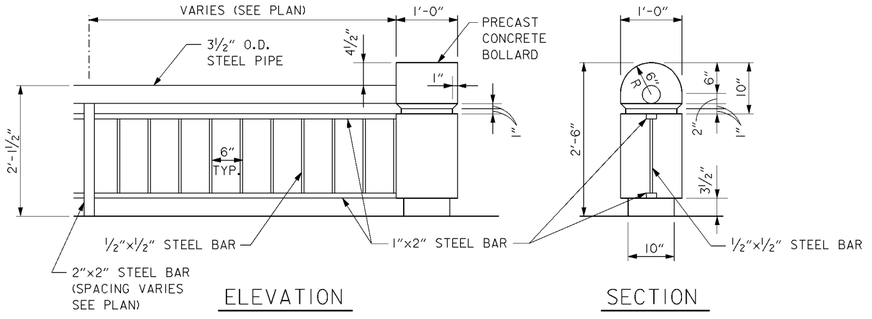
OVERLOOKS NO.(2) AND (3)

SCALE: 1/4" = 1'-0"



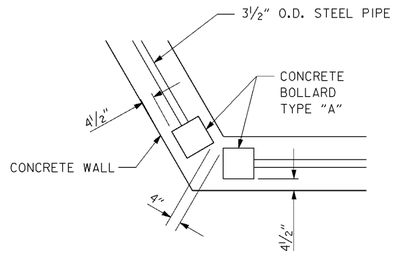
TYPICAL CONCRETE OVERLOOK WALL ELEVATION

SCALE: 1/2" = 1'-0"



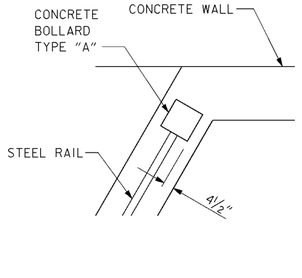
CONCRETE BOLLARD TYPE "A" AND STEEL RAIL REPLACEMENT

SCALE: 1" = 1'-0"



PLAN-BOLLARDS ON DECK

SCALE: 1/2" = 1'-0"



PLAN-TYP. CURB/BOLLARD

SCALE: 1/2" = 1'-0"

NOTES

1. FOR DODGE PARK DEMOLITION SEE DRAWING NOS. 20.2/22 AND 20.2/23.
2. FOR ADDITIONAL DODGE PARK PATH AND OVERLOOK DETAILS SEE DRAWING NOS.20.2/27 AND 20.2/28.
3. FOR TYPICAL BOLLARD ATTACHMENT SEE DETAILS DRAWING NO. 20.2/28.
4. TYPE "A" JOINT SHALL ALIGN WITH END OF FIRST FULL PZ22 SHEET PILING JOINT.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

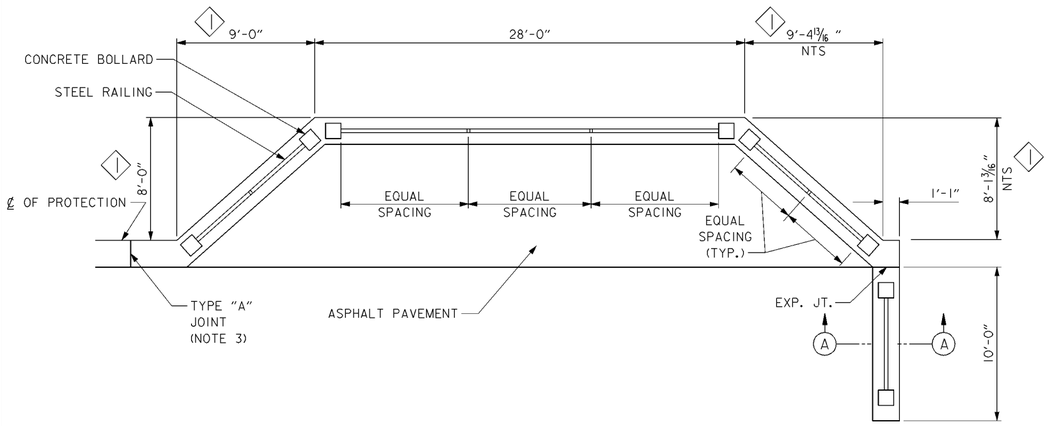
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

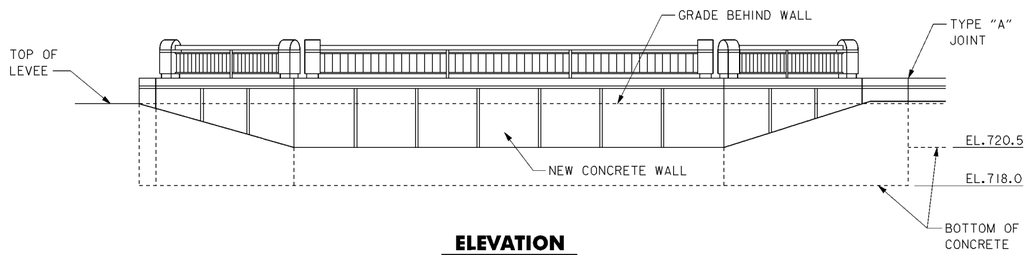
DODGE PARK OVERLOOK PLANS (1 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/26
FILENAME: a0a3pa01.dgn
PIN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED



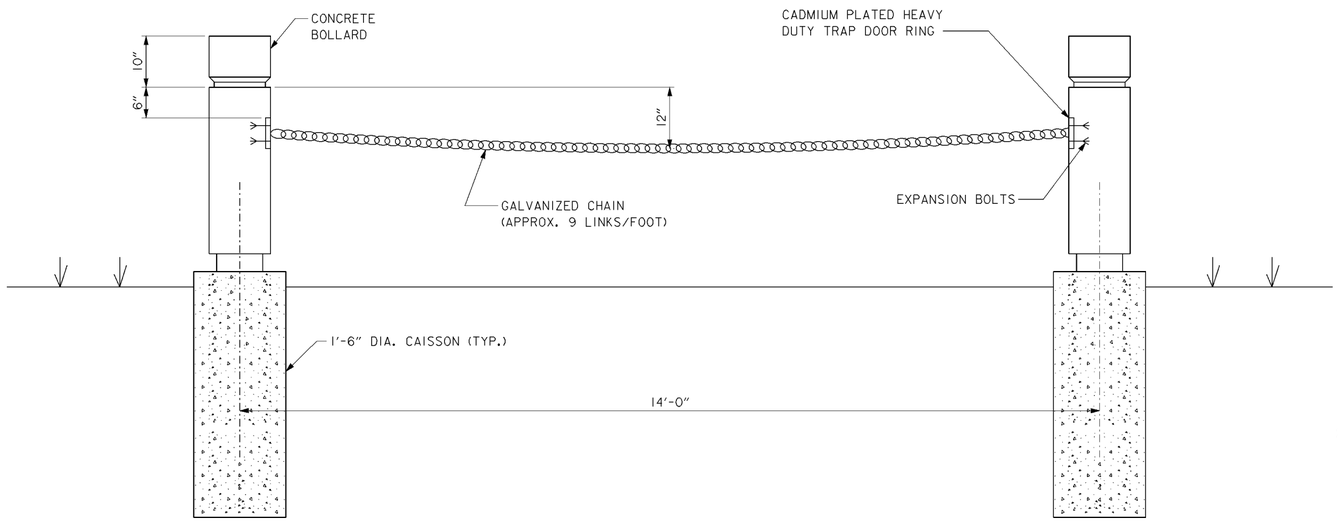
PLAN



ELEVATION

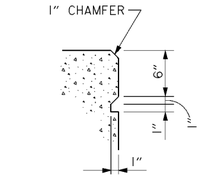
OVERLOOK NO.4

SCALE: 1/4" = 1'-0"
12" 0 5'



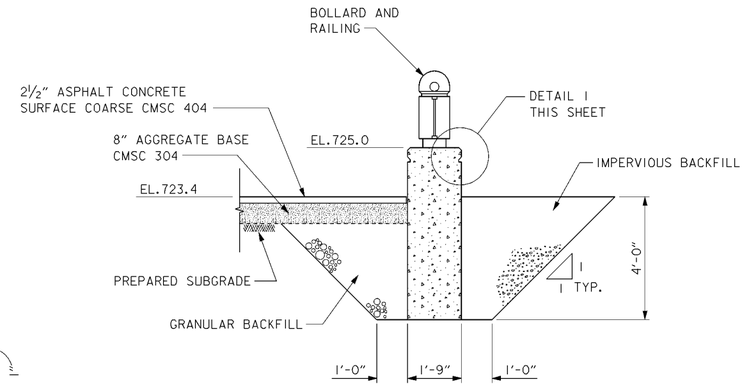
BOLLARD AND CHAIN

SCALE: 1" = 1'-0"
1' 0 1'



DETAIL 1

SCALE: 1 1/2" = 1'-0"
12" 9" 6" 3" 0 1'



SECTION A-A

SCALE: 1/2" = 1'-0"
12" 0 1' 2' 3' 4'

NOTES

1. FOR DODGE PARK DEMOLITION SEE DRAWING NOS. 20.2/22 AND 20.2/23.
2. FOR ADDTIONAL DODGE PARK PATH AND OVERLOOK DETAILS SEE DRAWING NOS.20.2/26 AND 20.2/28.
3. TYPE "A" JOINT SHALL ALIGN WITH END OF FIRST FULL PZ22 SHEET PILING JOINT.

BOLLARD AND CHAIN NOTES

1. PROVIDE TRAP DOOR RING BOTH SIDES OF ACCESS RAMP. WELD CHAIN TO ONE RING AND PROVIDE LOCKABLE ATTACHMENT FOR OTHER END RING.
2. BOLLARDS AND CAISSON SHALL BE SIMILAR TO CONCRETE BOLLARD TYPE "B". SEE DRAWING NO. 20.2/25.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

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Checked by: R.OMAN
Reviewed by:
Approved by:

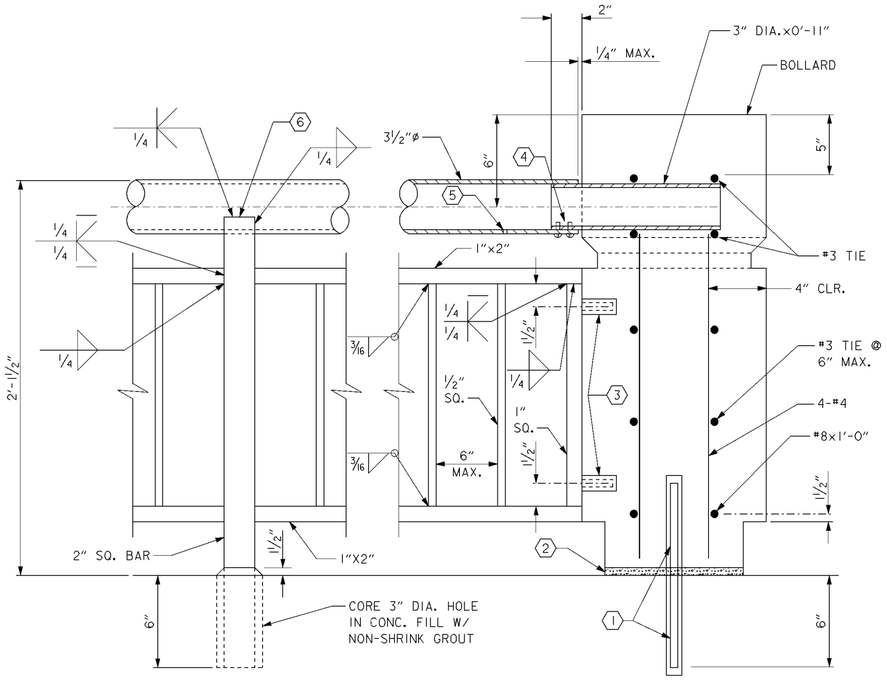
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

DODGE PARK OVERLOOK PLANS (2 OF 2)

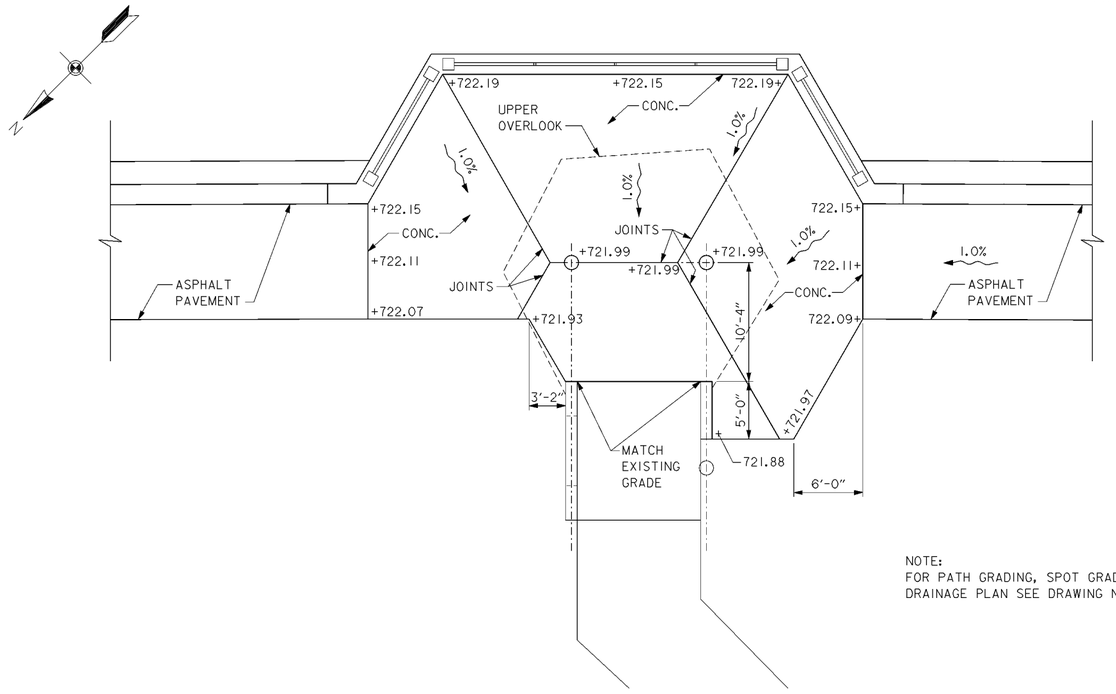
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/27
FILENAME: a0a3pa02.dgn
PEN TABLE:
Sheet 2 of 2

WORK AS CONSTRUCTED



TYPICAL RAIL AND BOLLARD SECTION

SCALE: 3" = 1'-0"



NOTE:
FOR PATH GRADING, SPOT GRADES AND DRAINAGE PLAN SEE DRAWING NO.20.2/24.

DODGE PARK OVERLOOK #1 PAVEMENT PLAN (2)

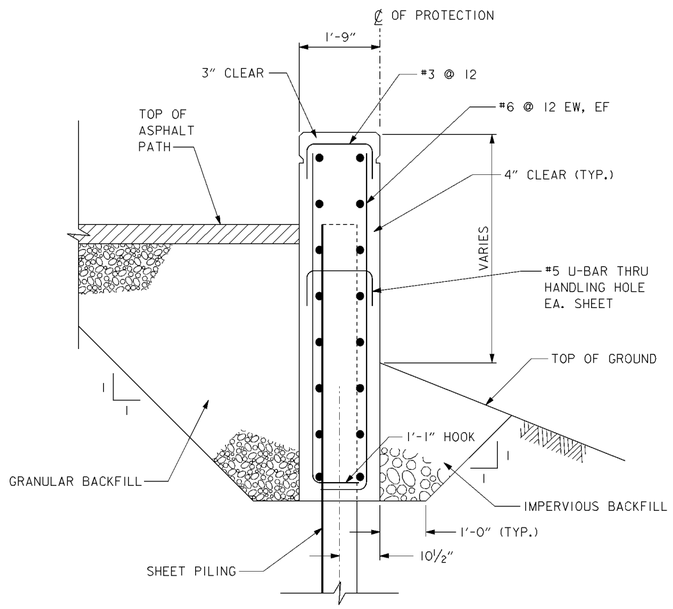
SCALE: 3/16" = 1'-0"

CODED NOTES

(1) ADHESIVE SET #8 INTO BOLLARD AND ALLOW ADHESIVE TO SET BEFORE ADHESIVE SETTING INTO SUPPORTING CONE. 3 1/2" RAIL MUST BE IN PLACE WHEN SETTING BOLLARDS.
(2) PROVIDE A MINIMUM OF 1/2" NON-SHRINK GROUT UNDER BOLLARD. FINISH GROUT FLUSH W/ FACE OF BOLLARD.
(3) ADHESIVE SET 3-2" LONG INSERT FOR 1/2" DIA. S.STL. COUNTERSUNK HEAD BOLT.
(4) 2-#12 S.STL. SELF-TAPPING SCREWS.
(5) 1/4" DIA. WEEP HOLE BOTTOM EACH END, EACH 3 1/2" DIA. PIPE SECTION.
(6) RADIUS TOP OF 2" SQ. BAR TO MATCH O.D. OF 3 1/2" DIA. PIPE.

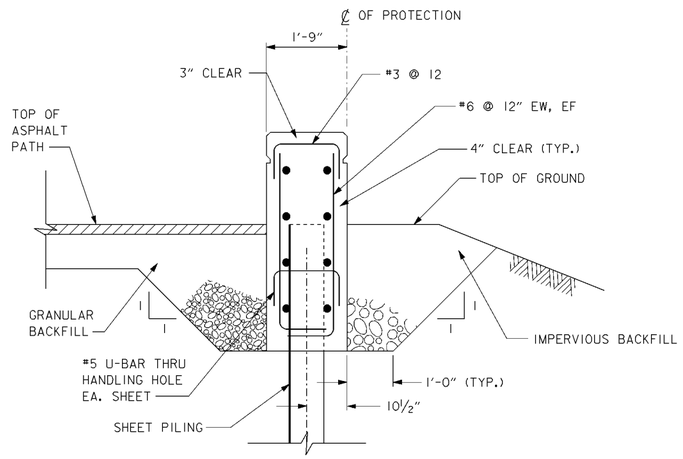
NOTES

1. FOR TYPE "A" AND TYPE "B" JOINT DETAILS SEE DRAWING NO.20.1/1.
2. FOR TYPICAL CORNER MONOLITH REINFORCEMENT SEE DRAWING NO.20.1/1.
3. PIPE SHALL BE ASTM A53 TYPE "E" OR "S".
4. ALL OTHER STEEL SHALL BE ASTM A36.
5. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.



TYPICAL OVERLOOK WALL SECTION

SCALE: 3/4" = 1'-0"



TYPICAL CONCRETE CAP SECTION

SCALE: 3/4" = 1'-0"

Revisions			
Symbol	Descriptions	Date	Approved
2	REV. BY CONTRACT MODIFICATION LETTER MC021	2/00	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
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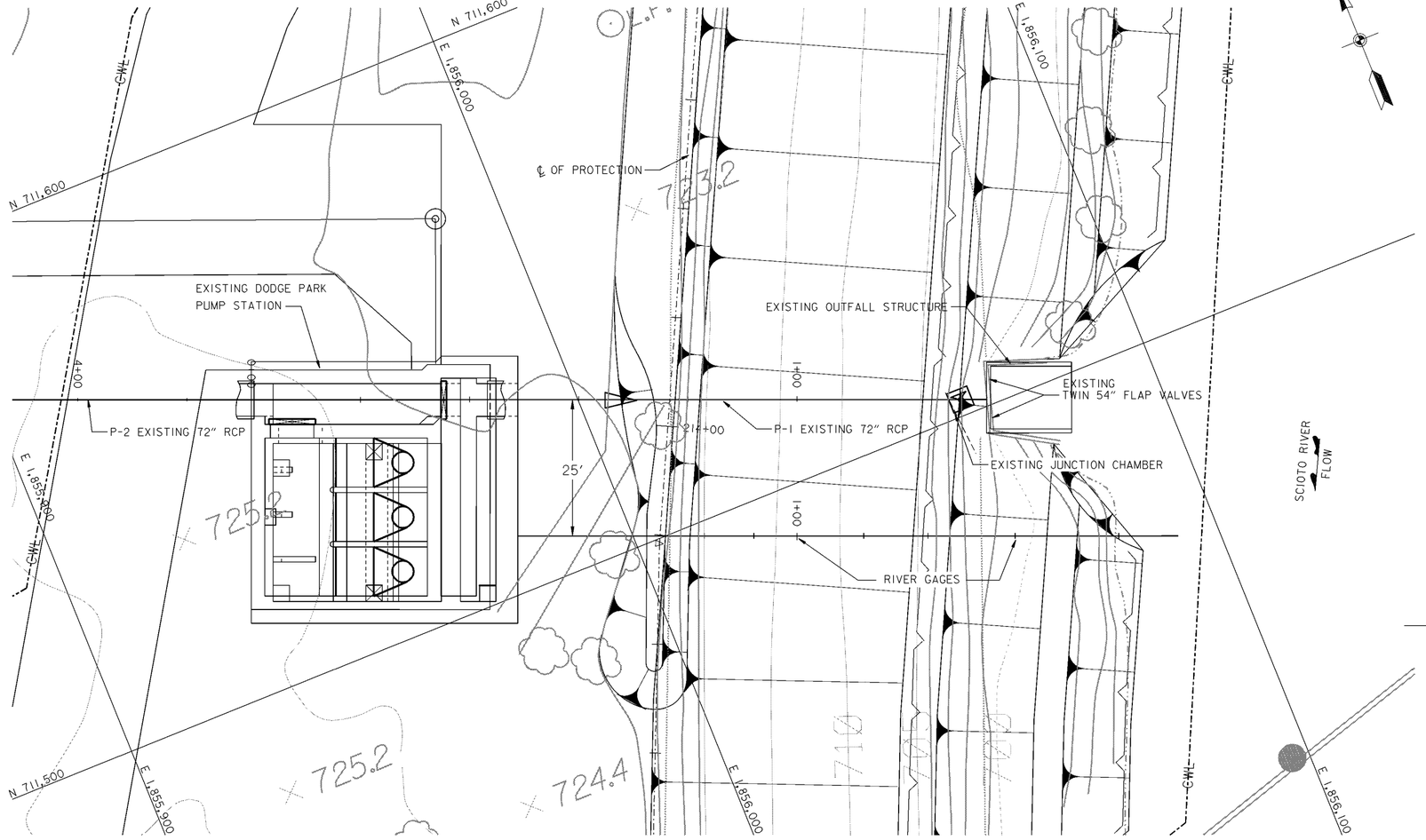
Checked by: D.TRAINA
Reviewed by:
Approved by:

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

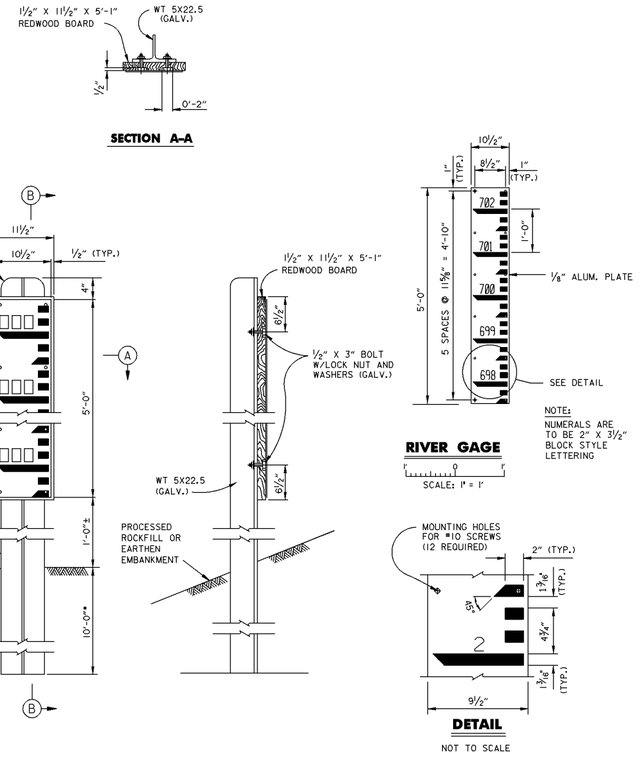
DODGE PARK OVERLOOK SECTIONS AND DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/28
FILENAME: 00w7sc01.dgn
PEN TABLE:
Sheet 1 of 1

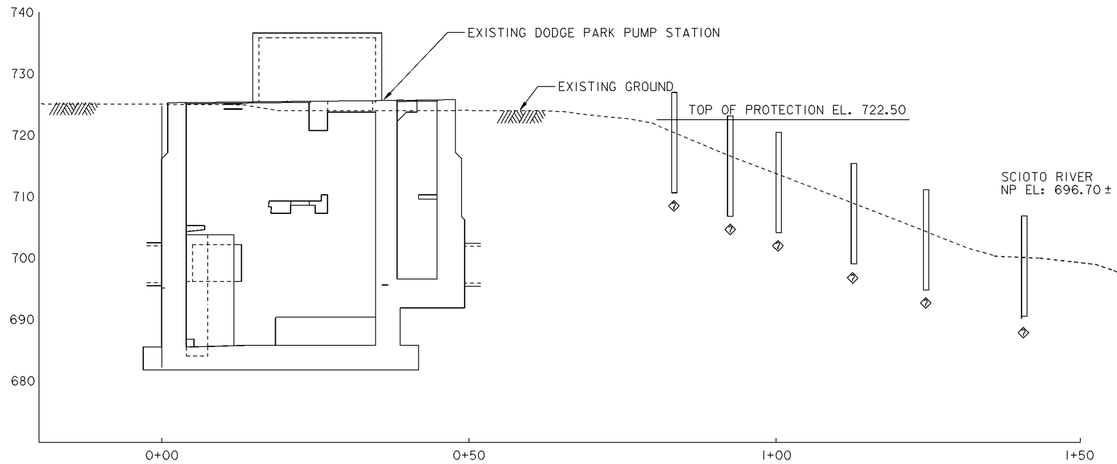
WORK AS CONSTRUCTED



PLAN
SCALE: 1" = 10'
10' 0 10'



RIVER GAGE MOUNTS
NOT TO SCALE



PROFILE
SCALE IN FEET

TABLE OF GAGE MOUNTS DODGE PARK PUMP STATION					POST IN PROCESSED ROCKFILL
NO.	GROUND EL. @ GAGE	EL. @ TOP OF WT5x22.5	GAGE READING BOTTOM	GAGE READING TOP	
1	696.5	702.83	698.0	702.0	YES
2	700.5	706.83	702.0	706.0	YES
3	704.5	710.83	706.0	710.0	YES
4	708.5	714.83	710.0	714.0	NO
5	712.5	718.83	714.0	718.0	NO
6	716.5	722.83	718.0	722.0	NO
7	720.5	726.83	722.0	726.0	NO

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P.CONROY
Drawn by: T.MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

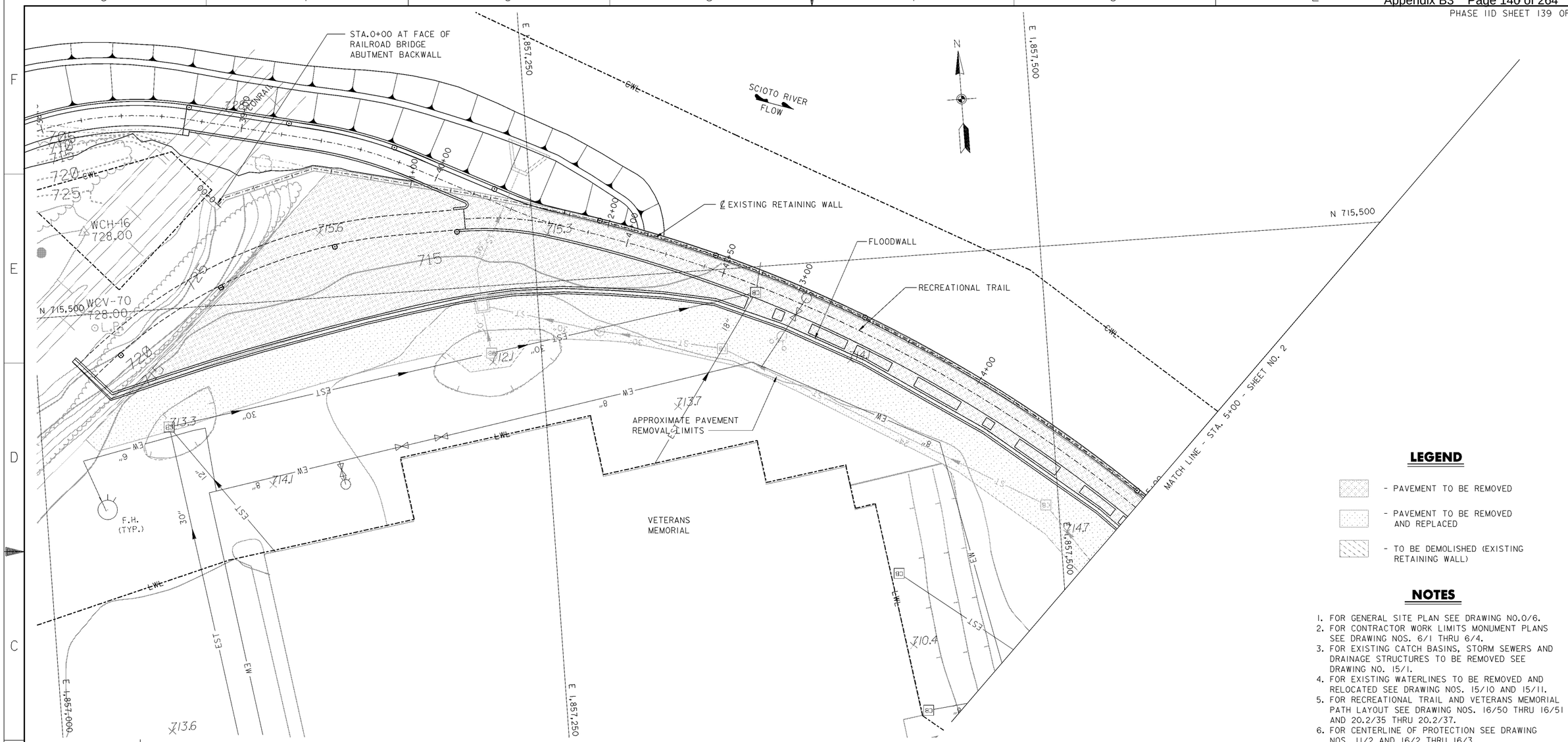
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RIVER GAGE MOUNTS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.28A
FILENAME: rivermts.dgn
PIN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



LEGEND

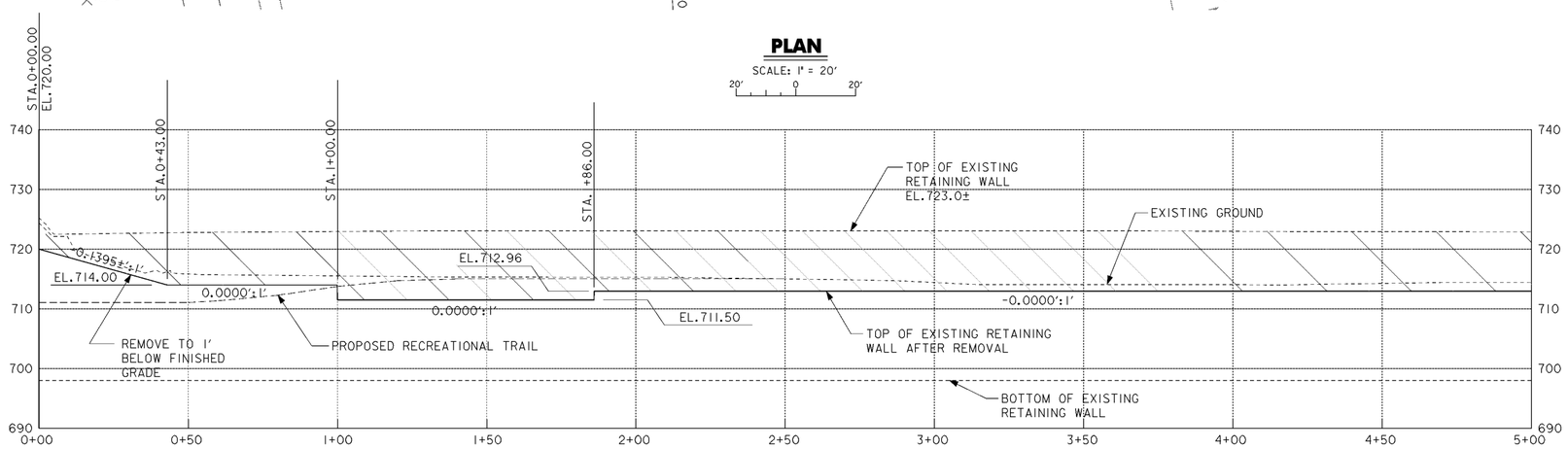
- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE REMOVED AND REPLACED
- TO BE DEMOLISHED (EXISTING RETAINING WALL)

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO.0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR EXISTING CATCH BASINS, STORM SEWERS AND DRAINAGE STRUCTURES TO BE REMOVED SEE DRAWING NO. 15/1.
4. FOR EXISTING WATERLINES TO BE REMOVED AND RELOCATED SEE DRAWING NOS. 15/10 AND 15/11.
5. FOR RECREATIONAL TRAIL AND VETERANS MEMORIAL PATH LAYOUT SEE DRAWING NOS. 16/50 THRU 16/51 AND 20.2/35 THRU 20.2/37.
6. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 AND 16/2 THRU 16/3.
7. THE EXISTING RETAINING WALL SHALL BE SAW CUT SMOOTH AND LEVEL. THE WALL SHALL BE CUT WITH THE FOLLOWING VARIATIONS FOR LEVEL TOLERANCES: IN 10FEET-1/2 INCH; IN 20 FEET-3/4 INCH; IN 40 FEET OR MORE 1 INCH.

PLAN

SCALE: 1" = 20'



EXISTING RETAINING WALL PROFILE

SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.OMAN
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

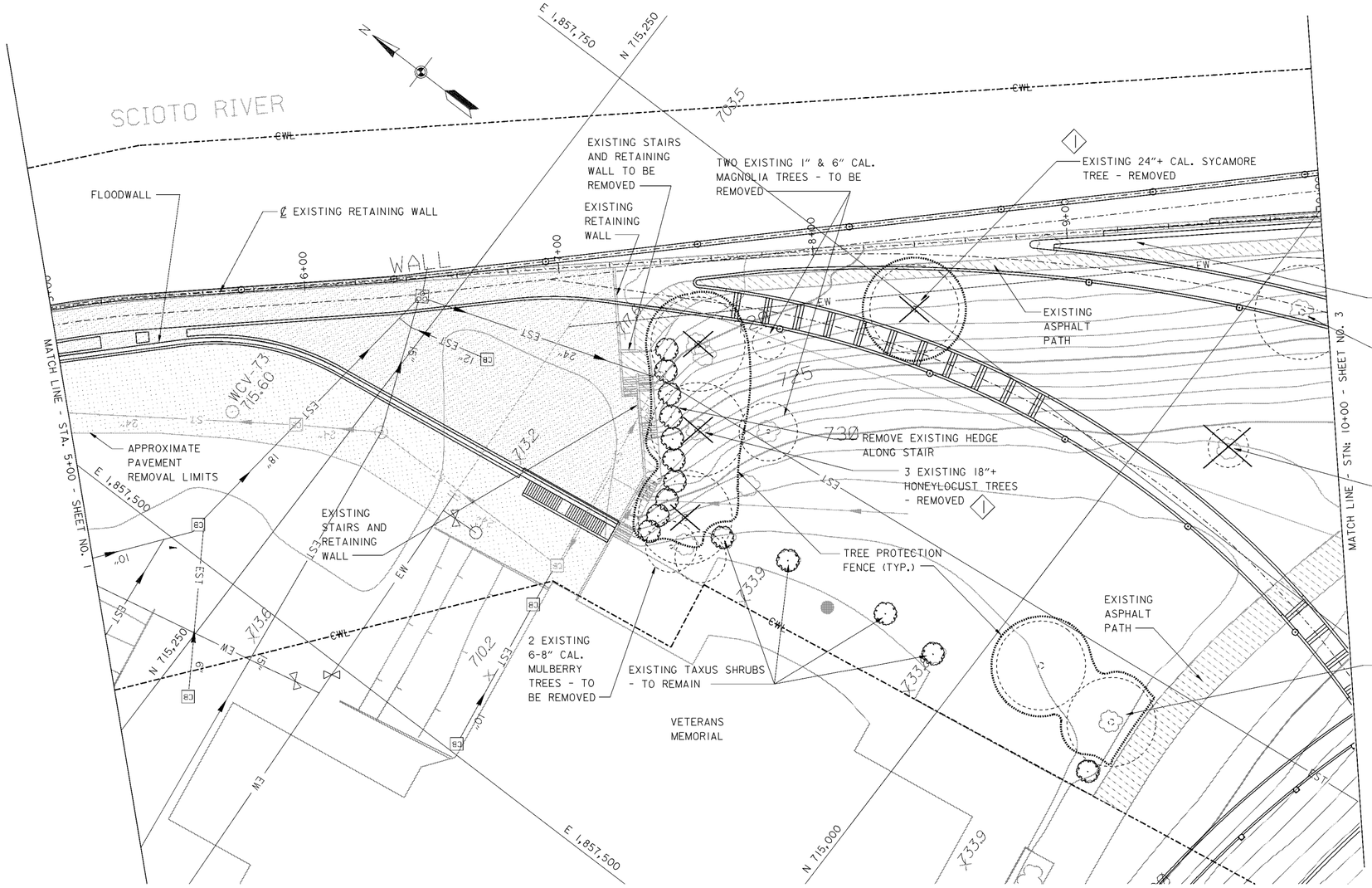
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

VETERANS MEMORIAL DEMO PLAN (1 OF 3)

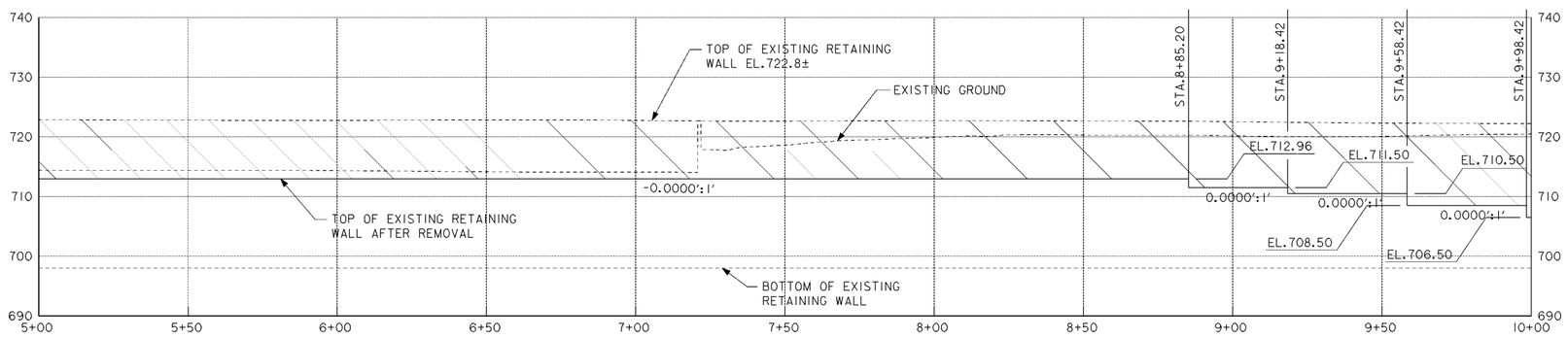
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/29
FILENAME: 00dmpp01.dgn
PRN TABLE:
Sheet 1 of 3

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



EXISTING RETAINING WALL PROFILE

SCALE IN FEET

TREE PROTECTION LEGEND

- 42" HIGH VISIBILITY PLASTIC MESH FENCE STAKED AT 6'-0" O.C. AT THE DRIPLINE (MIN.) OF THE TREE CANOPY
- INDICATES APPROXIMATE DIAMETER OF EXISTING TREE CANOPY

LEGEND

- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE REMOVED AND REPLACED
- TO BE DEMOLISHED

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO.0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR EXISTING CATCH BASINS, STORM SEWERS AND DRAINAGE STRUCTURES TO BE REMOVED SEE DRAWING NO. 15/1.
4. FOR EXISTING WATERLINES TO BE REMOVED AND RELOCATED SEE DRAWING NOS. 15/10 AND 15/11.
5. FOR RECREATIONAL TRAIL AND VETERANS MEMORIAL PATH LAYOUT SEE DRAWING NOS.16/50 THRU 16/51 AND 20.2/35 THRU 20.2/37.
6. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/3, 16/3 AND 20.2/34.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.OMAN
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

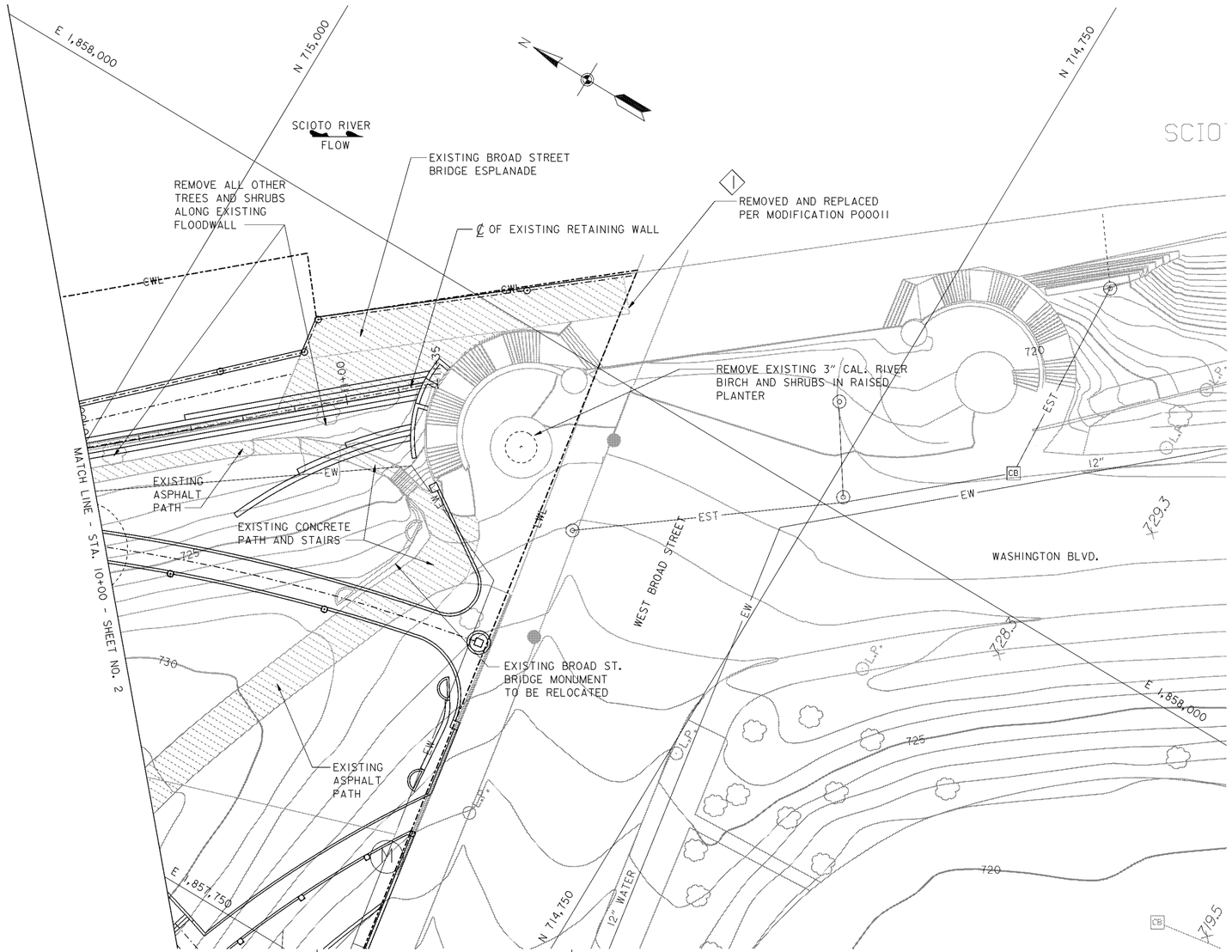
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

VETERANS MEMORIAL DEMO PLAN (2 OF 3)

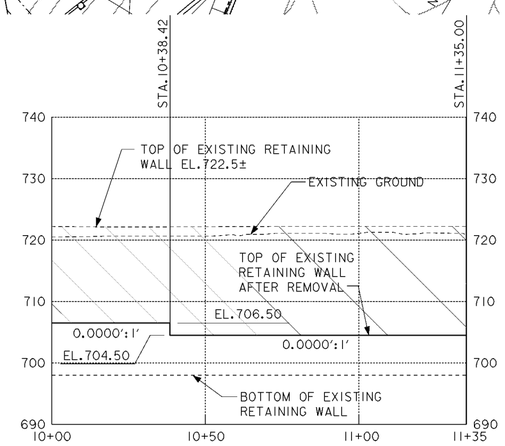
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/30
FILENAME: a0dmpp02.dgn
PEN TABLE:
Sheet 2 of 3

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



EXISTING RETAINING WALL PROFILE

SCALE IN FEET

LEGEND

▨ - TO BE DEMOLISHED

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO.0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR EXISTING CATCH BASINS, STORM SEWERS AND DRAINAGE STRUCTURES TO BE REMOVED SEE DRAWING NO. 15/1.
4. FOR RECREATIONAL TRAIL AND VETERANS MEMORIAL PATH LAYOUT SEE DRAWING NOS. 16/50 THRU 16/51 AND 20.2/35 THRU 20.2/37.
5. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/3, 16/4 AND 20.2/34.
6. FOR BROAD STREET BRIDGE MONUMENT FOUNDATION SEE DRAWING NO. 20.2/76.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: R.OMAN	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: T.MULLINS	**VETERANS MEMORIAL DEMO PLAN (3 OF 3)**
Checked by: P.CONROY	
Reviewed by:	Scale: AS SHOWN
Approved by:	Date: MARCH 1998
	Drawing Code: 16-PWC-10-
	Sheet reference number: 20.2/31
	FILENAME: a0dmpp03.dgn PRN TABLE:
	Sheet 3 of 3

WORK AS CONSTRUCTED

PHASE IID SHEET 142 OF 256

SEE SHT. 20.2/33 GRADING PLAN
SEE SHT. 20.2/35 LAYOUT PLAN
SEE SHT. 20.2/38 MATERIALS PLAN
SEE SHT. 20.2/41 PAVEMENT JOINTING PLAN
SEE SHT. 12/1 PLANTING PLAN

SEE SHT. 20.2/36 LAYOUT PLAN
SEE SHT. 20.2/39 MATERIALS PLAN
SEE SHT. 20.2/42 PAVEMENT JOINTING PLAN
SEE SHT. 12/2 PLANTING PLAN
SEE SHT. 12/5 IRRIGATION PLAN

SEE SHT. 20.2/34 GRADING PLAN
SEE SHT. 20.2/37 LAYOUT PLAN
SEE SHT. 20.2/40 MATERIALS PLAN
SEE SHT. 20.2/43 PAVEMENT JOINTING PLAN
SEE SHT. 12/3 PLANTING PLAN
SEE SHT. 12/6 IRRIGATION PLAN

LEGEND

CWL — CONTRACTOR'S WORK LIMITS

165+00 — CENTERLINE OF FLOOD PROTECTION

PLAN SHEET IMAGE AREA

RECREATIONAL TRAIL
SCIOTO RIVER
FLOODWALL
VETERANS' MEMORIAL AUDITORIUM
PARKING AREA
WALL
PATH NO. 1
PATH NO. 2
BROAD STREET
WEST BROAD STREET
CONRAIL
151+26.73
152+00
153+00
154+00
155+00
156+00
157+00
158+00
159+00
160+00
163+00
165+00
167+00
168+00
169+00

PLAN

SCALE: 1"=50'
50' 0 50'

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: DRB
Checked by: CLO
Reviewed by: NJD
Approved by:

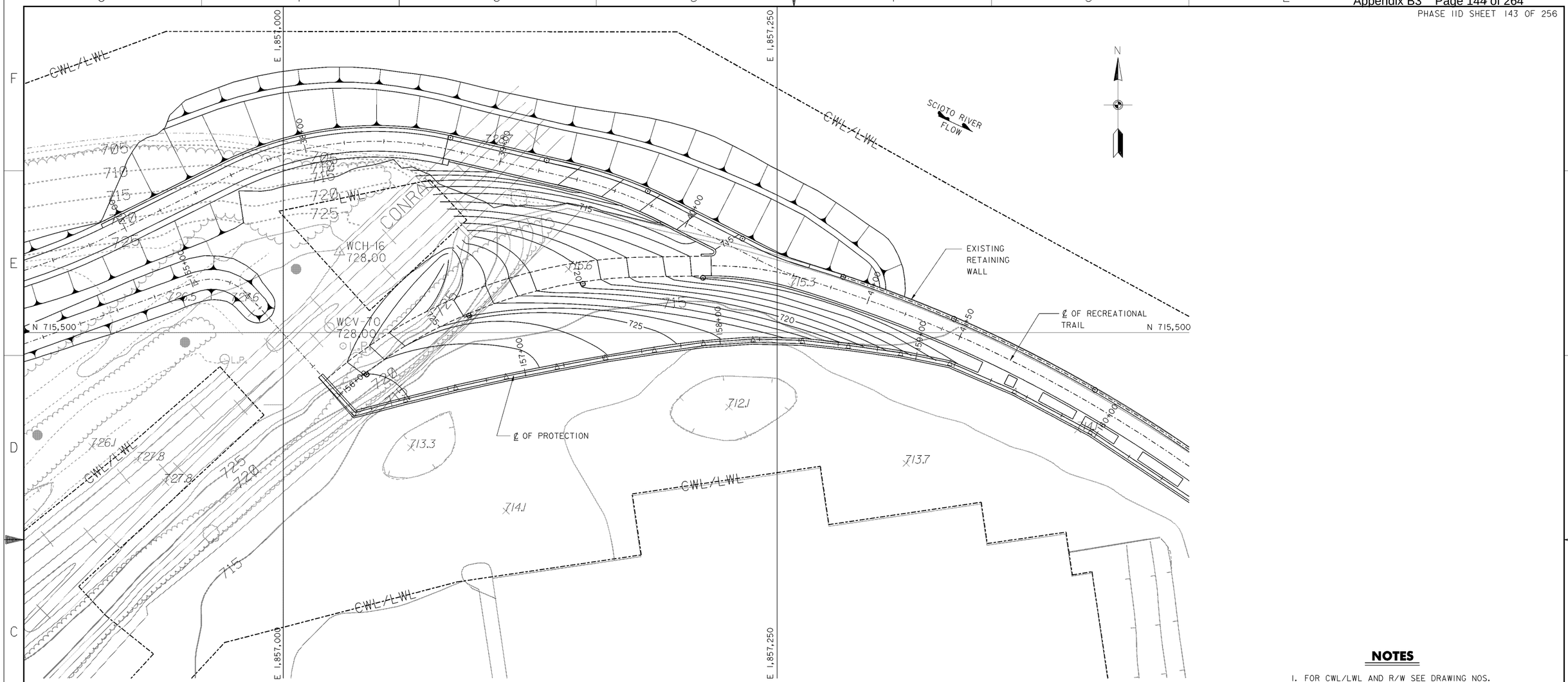
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

SITE PLAN

Scale: 1" = 50'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/32
FILENAME: PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'

20' 0 20'

NOTES

1. FOR CWL/LWL AND R/W SEE DRAWING NOS. 6/1 THRU 6/10.
2. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 AND 16/1 THRU 16/3.
3. FOR RECREATIONAL TRAIL SEE DRAWING NOS. 16/50 AND 16/51 AND 20.2/35 THRU 20.2/37
4. FOR RECREATIONAL TYPICAL SECTION SEE DRAWING NOS. 16/55, 20.2/51, AND 20.2/52.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL/CLO
Drawn by: T.MULLINS
Checked by: P.CONROY/NJD
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GRADING PLAN (1 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/33
FILENAME: 00vmgp01.dgn
PEN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED

PLAN
SCALE: 1" = 20'
20' 0 20'

NOTES

1. FOR CWL/LWL AND R/W SEE DRAWING NOS. 6/1 THRU 6/10.
2. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/3 AND 16/3 THRU 16/4.
3. FOR RECREATIONAL TRAIL AND PATH LAYOUT SEE DRAWING NOS. 20.2/36 AND 20.2/37.
4. FOR RETAINING WALL NOS. 1, 2, AND 3 SEE DRAWING NOS. 20.2/56 THRU 20.2/63.
5. FOR PATH TYPICAL SECTIONS SEE DRAWING NOS. 20.2/51 AND 20.2/52.
6. FOR BROAD STREET BRIDGE MONUMENT FOUNDATION SEE DRAWING NO. 20.2/76.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.OMAN
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GRADING PLAN (2 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/34
FILENAME: PIN TABLE: 00vmgp02.dgn
Sheet 2 of 2

WORK AS CONSTRUCTED

RECREATIONAL TRAIL

SCIOTO RIVER

N 715548.62
E 1856910.81

WCH-16
728.00

WCV-70
728.00

CONRAIL

FUTURE WALK

FUTURE LIGHT POLE, TYP.

50.10'
(28.)

53.55'

102'-0"

L.P.

151+26.73

153+00

155+00

156+00

157+00

703.6 730.4 730.1 730.1 729.5 726.1 727.8 727.8 725.4 724.7 715.6 713.3 714.1 713.6 715.6

LEGEND

C.W.L.	CONTRACTOR'S WORK LIMIT
	FUTURE WORK
165+00	CENTERLINE OF FLOOD PROTECTION
○	PRECAST CONCRETE BOLLARD
·	TRELLIS COLUMN
⊙	LIGHT POLE ON CONCRETE PAD
	UPLIGHT ON TRELLIS COLUMN
◉	LIGHT POLE ON BOLLARD
◎	TRASH RECEPTACLE
▭	BENCH
PI	POINT OF INTERSECTION
(A)	COLUMN LINE

NOTES

1. FOR REC. TRAIL ALIGNMENT, SECTIONS AND SURVEY DATA UP TO STATION 41 + 50, SEE DRAWING NOS. 11/11 AND 11/12 AND 16/50 THROUGH 16/55.
2. FOR GRADING PLANS, SEE DRAWING NOS. 20.2/33 AND 20.2/34.
3. FOR MATERIALS PLANS, SEE DRAWING NOS. 20.2/38 THROUGH 20.2/40.
4. FOR PAVEMENT JOINTING PLANS, SEE DRAWING NOS. 20.2/41 THROUGH 20.2/43.
5. FOR ELECTRICAL PLANS, SEE DRAWING NOS. 20.2/69 AND 20.2/70.
6. SEE DRAWING NOS. 20.2/47 THROUGH 20.2/50 FOR TRELLIS PLANS AND DETAILS.
7. SEE DRAWING NOS. 20.2/51 THROUGH 20.2/54
8. FOR SITE DETAILS. SEE DRAWING NOS. 20.2/29 THROUGH 20.2/31 FOR DEMOLITION PLANS.

PLAN

SCALE: 1"=20'

20' 0 20'

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: CLO /DRB
Checked by: NJD
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

LAYOUT PLAN (1 OF 3)

Scale: 1" = 20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/35
Sheet 1 of 3

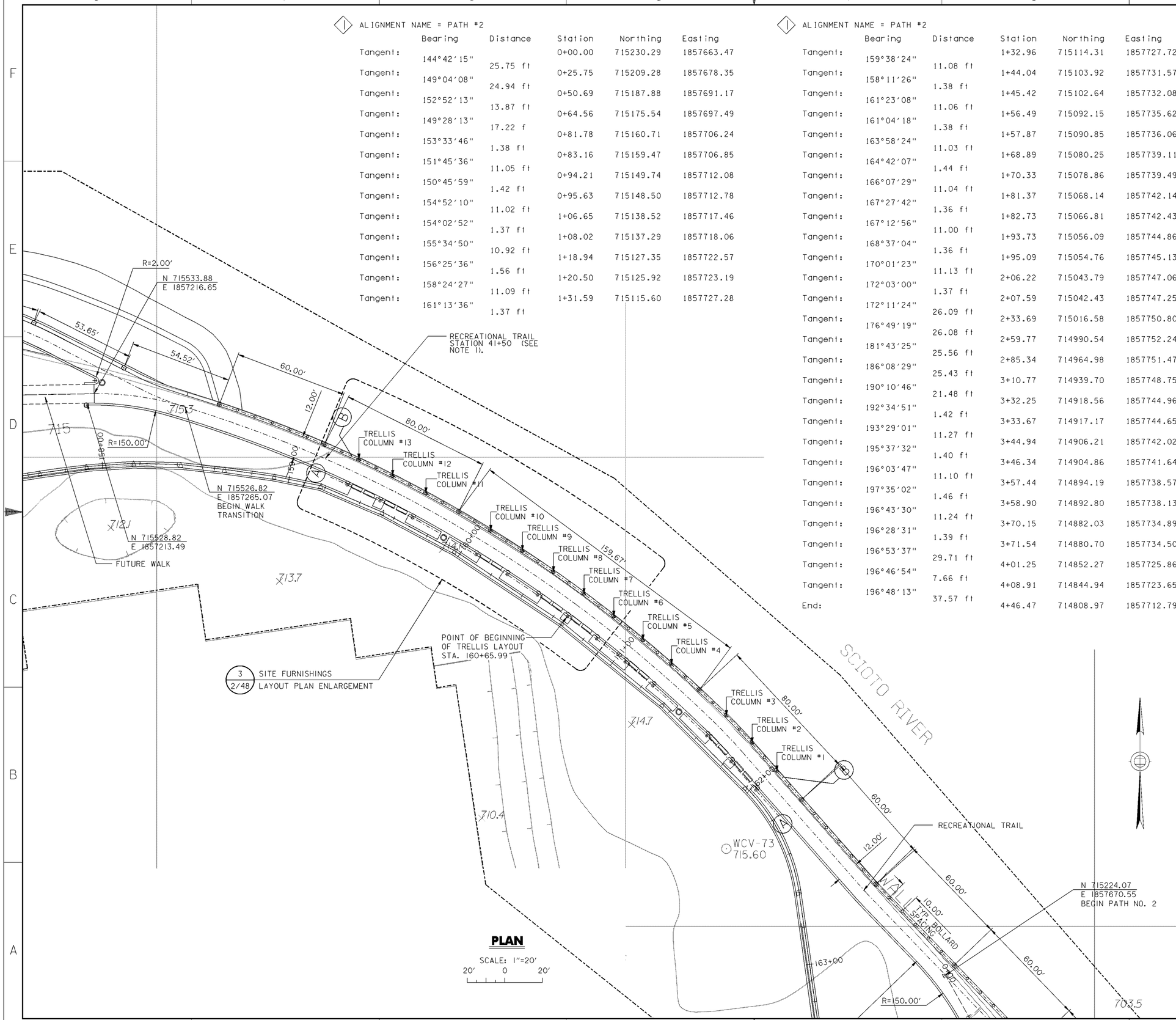
WORK AS CONSTRUCTED

ALIGNMENT NAME = PATH #2

	Bearing	Distance	Station	Northing	Easting
Tangent:			0+00.00	715230.29	1857663.47
Tangent:	144°42'15"	25.75 ft	0+25.75	715209.28	1857678.35
Tangent:	149°04'08"	24.94 ft	0+50.69	715187.88	1857691.17
Tangent:	152°52'13"	13.87 ft	0+64.56	715175.54	1857697.49
Tangent:	149°28'13"	17.22 f	0+81.78	715160.71	1857706.24
Tangent:	153°33'46"	1.38 ft	0+83.16	715159.47	1857706.85
Tangent:	151°45'36"	11.05 ft	0+94.21	715149.74	1857712.08
Tangent:	150°45'59"	1.42 ft	0+95.63	715148.50	1857712.78
Tangent:	154°52'10"	11.02 ft	1+06.65	715138.52	1857717.46
Tangent:	154°02'52"	1.37 ft	1+08.02	715137.29	1857718.06
Tangent:	155°34'50"	10.92 ft	1+18.94	715127.35	1857722.57
Tangent:	156°25'36"	1.56 ft	1+20.50	715125.92	1857723.19
Tangent:	158°24'27"	11.09 ft	1+31.59	715115.60	1857727.28
Tangent:	161°13'36"	1.37 ft			

ALIGNMENT NAME = PATH #2

	Bearing	Distance	Station	Northing	Easting
Tangent:			1+32.96	715114.31	1857727.72
Tangent:	159°38'24"	11.08 ft	1+44.04	715103.92	1857731.57
Tangent:	158°11'26"	1.38 ft	1+45.42	715102.64	1857732.08
Tangent:	161°23'08"	11.06 ft	1+56.49	715092.15	1857735.62
Tangent:	161°04'18"	1.38 ft	1+57.87	715090.85	1857736.06
Tangent:	163°58'24"	11.03 ft	1+68.89	715080.25	1857739.11
Tangent:	164°42'07"	1.44 ft	1+70.33	715078.86	1857739.49
Tangent:	166°07'29"	11.04 ft	1+81.37	715068.14	1857742.14
Tangent:	167°27'42"	1.36 ft	1+82.73	715066.81	1857742.43
Tangent:	167°12'56"	11.00 ft	1+93.73	715056.09	1857744.86
Tangent:	168°37'04"	1.36 ft	1+95.09	715054.76	1857745.13
Tangent:	170°01'23"	11.13 ft	2+06.22	715043.79	1857747.06
Tangent:	172°03'00"	1.37 ft	2+07.59	715042.43	1857747.25
Tangent:	172°11'24"	26.09 ft	2+33.69	715016.58	1857750.80
Tangent:	176°49'19"	26.08 ft	2+59.77	714990.54	1857752.24
Tangent:	181°43'25"	25.56 ft	2+85.34	714964.98	1857751.47
Tangent:	186°08'29"	25.43 ft	3+10.77	714939.70	1857748.75
Tangent:	190°10'46"	21.48 ft	3+32.25	714918.56	1857744.96
Tangent:	192°34'51"	1.42 ft	3+33.67	714917.17	1857744.65
Tangent:	193°29'01"	11.27 ft	3+44.94	714906.21	1857742.02
Tangent:	195°37'32"	1.40 ft	3+46.34	714904.86	1857741.64
Tangent:	196°03'47"	11.10 ft	3+57.44	714894.19	1857738.57
Tangent:	197°35'02"	1.46 ft	3+58.90	714892.80	1857738.13
Tangent:	196°43'30"	11.24 ft	3+70.15	714882.03	1857734.89
Tangent:	196°28'31"	1.39 ft	3+71.54	714880.70	1857734.50
Tangent:	196°53'37"	29.71 ft	4+01.25	714852.27	1857725.86
Tangent:	196°46'54"	7.66 ft	4+08.91	714844.94	1857723.65
End:	196°48'13"	37.57 ft	4+46.47	714808.97	1857712.79



PLAN

SCALE: 1"=20'

20' 0 20'

LEGEND

- CWL — CONTRACTOR'S WORK LIMIT
- FUTURE WORK
- 165+00 — CENTERLINE OF FLOOD PROTECTION
- PRECAST CONCRETE BOLLARD
- TRELLIS COLUMN
- LIGHT POLE ON CONCRETE PAD
- UPLIGHT ON TRELLIS COLUMN
- LIGHT POLE ON BOLLARD
- TRASH RECEPTACLE
- BENCH
- PI — POINT OF INTERSECTION
- (A) — COLUMN LINE

NOTES

1. FOR REC. TRAIL ALIGNMENT, SECTIONS AND SURVEY DATA UP TO STATION 41 + 50, SEE DRAWING NOS. 11/11 AND 11/12 AND 16/50 THROUGH 16/55.
2. FOR GRADING PLANS, SEE DRAWING NOS. 20.2/33 AND 20.2/34.
3. FOR MATERIALS PLANS, SEE DRAWING NOS. 20.2/38 THROUGH 20.2/40.
4. FOR PAVEMENT JOINTING PLANS, SEE DRAWING NOS. 20.2/41 THROUGH 20.2/43.
5. FOR ELECTRICAL PLANS, SEE DRAWING NOS. 20.2/69 AND 20.2/70.
6. SEE DRAWING NOS. 20.2/47 THROUGH 20.2/50 FOR TRELLIS PLANS AND DETAILS.
7. SEE DRAWING NOS. 20.2/51 THROUGH 20.2/54
8. FOR SITE DETAILS. SEE DRAWING NOS. 20.2/29 THROUGH 20.2/31 FOR DEMOLITION PLANS.

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: CLO /DRB
Checked by: NJD
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

LAYOUT PLAN (2 OF 3)

Scale: 1" = 20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/36
Sheet 2 of 3

WORK AS CONSTRUCTED

PHASE IID SHEET 147 OF 256

N 715189.99
E 1857703.40
BEGIN PATH NO. 1

N 715163.67
E 1857704.56

PC = 0+00
PC = 0+69.32
PT = 0+72.90
PCC = 2+25.00
PT = 3+82.45
PT = 3+97.30
N78°34'22"E

S46°03'13"W
90.00'

S60°36'50"W
370.00'

S43°56'47"E
204.16'

N11°25'38"W
204.16'

CURVE 1
Δ = 24°06'29"
R = 370.00'
T = 79.01'
L = 155.68'

CURVE 2
Δ = 26°43'25"
R = 337.57'
T = 80.18'
L = 157.45'

CURVE 2
Δ = 32°31'
R = 700.00'
T = 204.16
L = 397.30'

S84°43'18"W
337.52'

R=2.00'
R=12.00'
R=24.00'

10.00' TYP. BOLLARD SPACING

RECREATIONAL TRAIL

N 715042.99
E 1857845.08

N 714861.68
E 1857728.66

N 714842.2
E 1857865.4

N 714847.15
E 1857910.52

N 714827.0
E 1857823.6

N 714799.62
E 1857704.28

N 714851.62
E 1857888.82

STA: 0+92.74 OFFSET: 6.00' R
STA: 1+55.24 OFFSET: 6.00' R
STA: 1+65.99 OFFSET: 6.00' R
STA: 2+15.33 OFFSET: 6.00' R
STA: 2+74.41 OFFSET: 6.00' R
STA: 2+86.42 OFFSET: 6.00' R
STA: 2+86.86 OFFSET: 6.00' R
STA: 3+30.71 OFFSET: 6.00' R
STA: 3+47.29 OFFSET: 6.00' R

STA: 0+00
STA: 0+50
STA: 0+72.90
STA: 0+86.24
STA: 0+97.24
STA: 1+10.25
STA: 1+22.75
STA: 1+35.25
STA: 1+47.75
STA: 1+60.25
STA: 1+72.75
STA: 1+85.25
STA: 1+97.75
STA: 2+50
STA: 2+75
STA: 3+00
STA: 3+25.82
STA: 3+38.32
STA: 3+50.82
STA: 3+63.32
STA: 4+01.08
STA: 4+25
STA: 4+50

164+00
165+00
166+00
167+00
169+00

2+00
2+25
2+50
2+75
3+00
3+25
3+50
3+75
4+00
4+25
4+50

32.79'
10'-11"±
80'-0"
40'-0"
34.6'
64.40'
42.68'

713.2
717.0
710.2
733.9
733.8
733.9
728.3
716.9
720.4
725
720
718.3
717.3
730

O.L.P.

STREET

ALIGNMENT NAME = PATH #1

	Bearing	Distance	Station	Northing	Easting
			0+00.00	715189.99	1857703.40
Tangent:	137°20'55"	5.96 ft	0+05.96	715185.61	1857707.44
Tangent:	136°38'51"	17.50 ft	0+23.46	715172.88	1857719.45
Tangent:	138°54'59"	22.34 ft	0+45.80	715156.04	1857734.13
Tangent:	140°53'57"	23.01 ft	0+68.81	715138.18	1857748.65
Tangent:	143°01'53"	30.23 ft	0+99.04	715114.03	1857766.83
Tangent:	145°20'04"	28.58 ft	1+27.62	715090.52	1857783.08
Tangent:	147°44'05"	28.28 ft	1+55.90	715066.61	1857798.18
Tangent:	149°23'52"	24.81 ft	1+80.71	715045.26	1857810.81
Tangent:	151°46'07"	24.57 ft	2+05.28	715023.61	1857822.43
Tangent:	153°36'33"	25.11 ft	2+30.39	715001.12	1857833.59
Tangent:	156°20'01"	29.76 ft	2+60.14	714973.87	1857845.53
Tangent:	158°27'54"	24.58 ft	2+84.72	714951.00	1857854.56
Tangent:	160°12'32"	28.45 ft	3+13.17	714924.24	1857864.19
Tangent:	163°40'52"	36.66 ft	3+49.84	714889.05	1857874.49
Tangent:	165°54'25"	16.64 ft	3+66.48	714872.91	1857878.54
Tangent:	167°15'33"	33.52 ft	4+00.00	714840.21	1857885.94
End:					

LEGEND

- CWL — CONTRACTOR'S WORK LIMIT
- FUTURE WORK
- 165+00 — CENTERLINE OF FLOOD PROTECTION
- PRECAST CONCRETE BOLLARD
- TRELLIS COLUMN
- LIGHT POLE ON CONCRETE PAD
- UPLIGHT ON TRELLIS COLUMN
- LIGHT POLE ON BOLLARD
- TRASH RECEPTACLE
- BENCH
- PI — POINT OF INTERSECTION
- (A) COLUMN LINE

NOTES

1. FOR REC. TRAIL ALIGNMENT, SECTIONS AND SURVEY DATA UP TO STATION 41 + 50, SEE DRAWING NOS. 11/11 AND 11/12 AND 16/50 THROUGH 16/55.
2. FOR GRADING PLANS, SEE DRAWING NOS. 20.2/33 AND 20.2/34.
3. FOR MATERIALS PLANS, SEE DRAWING NOS. 20.2/38 THROUGH 20.2/40.
4. FOR PAVEMENT JOINTING PLANS, SEE DRAWING NOS. 20.2/41 THROUGH 20.2/43.
5. FOR ELECTRICAL PLANS, SEE DRAWING NOS. 20.2/69 AND 20.2/70.
6. SEE DRAWING NOS. 20.2/47 THROUGH 20.2/50 FOR TRELLIS PLANS AND DETAILS.
7. SEE DRAWING NOS. 20.2/51 THROUGH 20.2/54
8. FOR SITE DETAILS, SEE DRAWING NOS. 20.2/29 THROUGH 20.2/31 FOR DEMOLITION PLANS.

(1) REMOVE EXISTING POSTS AND CHAIN. CUT POST AT SURFACE, GROUT IN PLACE.

PLAN

SCALE: 1"=20'

20' 0 20'

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REV. BY CONTRACT MODIFICATION LETTER MC011	12/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: CLO /DRB
Checked by: NJD
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

LAYOUT PLAN (3 OF 3)

Scale: 1"=20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/37
Sheet 3 of 3

WORK AS CONSTRUCTED

PLAN
SCALE: 1"=20'
20' 0 20'

LEGEND

- CWL — CONTRACTOR'S WORK LIMIT
- FUTURE WORK
- 165+00 — CENTERLINE OF FLOOD PROTECTION
- PRECAST CONCRETE BOLLARD
- TRELLIS COLUMN
- LIGHT POLE ON CONCRETE PAD
- UPLIGHT ON TRELLIS COLUMN
- LIGHT POLE ON BOLLARD
- TRASH RECEPTACLE
- BENCH
- (A) COLUMN LINE

NOTES

1. FOR GRADING PLANS, SEE DRAWING NOS. 20.2/33 AND 20.2/34.
2. FOR PLANTING INFORMATION, SEE DRAWING NOS. 12/1 THROUGH 12/4.
3. FOR IRRIGATION INFORMATION, SEE DRAWING NOS. 12/5 THROUGH 12/7.

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: CLO /DRB
Checked by: NJD
Reviewed by:
Approved by:

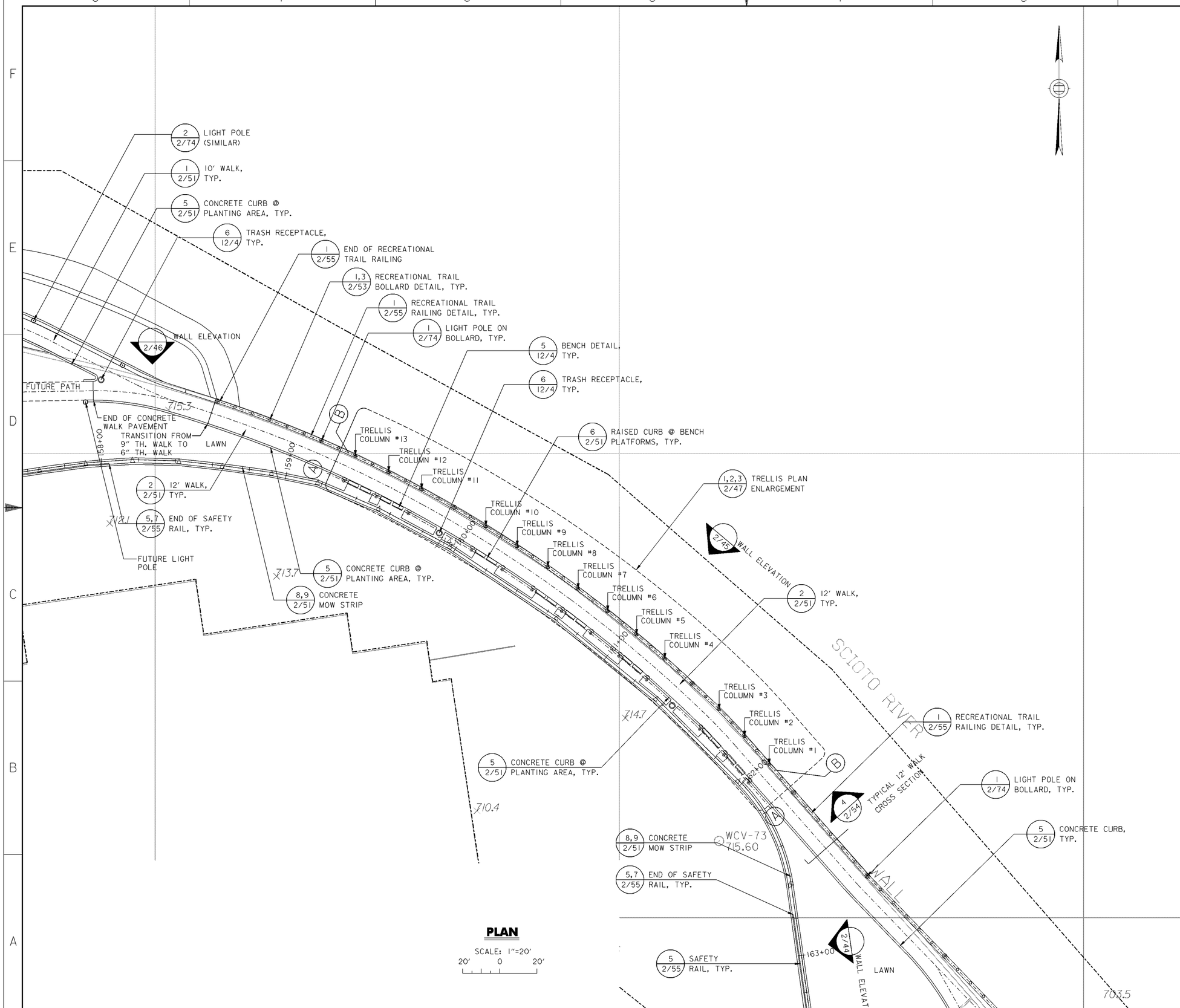
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MATERIALS PLAN (1 OF 3)

Scale: 1" = 20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/38
Sheet 1 of 3

WORK AS CONSTRUCTED



PLAN

SCALE: 1"=20'

20' 0 20'

LEGEND

CWL — CONTRACTOR'S WORK LIMIT

FUTURE WORK

165+00 — CENTERLINE OF FLOOD PROTECTION

- PRECAST CONCRETE BOLLARD
- TRELLIS COLUMN
- LIGHT POLE ON CONCRETE PAD
- UPLIGHT ON TRELLIS COLUMN
- LIGHT POLE ON BOLLARD
- TRASH RECEPTACLE
- BENCH
- (A) COLUMN LINE

NOTES

1. FOR GRADING PLANS, SEE DRAWING NOS. 20.2/33 AND 20.2/34.
2. FOR PLANTING INFORMATION, SEE DRAWING NOS. 12/1 THROUGH 12/4.
3. FOR IRRIGATION INFORMATION, SEE DRAWING NOS. 12/5 THROUGH 12/7.

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: SOD

Drawn by: CLO /DRB

Checked by: NJD

Reviewed by:

Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MATERIALS PLAN (2 OF 3)

Scale: 1" = 20'-0"

Date: MARCH 1998

Drawing Code: 16-PWC-10-

Sheet reference numbers: 20.239

Sheet 2 of 3

WORK AS CONSTRUCTED

PHASE IID SHEET 150 OF 256

FOR CONC. STAIR DETAILS, SEE DRAWINGS NOS. 20.2/65 AND 20.2/66

4 2/55 SAFETY HAND RAIL, TYP.

3 2/55 SAFETY HAND RAIL, TYP.

5 2/55 END OF SAFETY RAIL, TYP.

2/49 WALL ELEVATION

6 SAFETY RAIL / HANDRAIL LOCATION PLAN

TRANSITION FROM 9" TH. WALK TO 6" TH. WALK

8,9 2/51 CONCRETE MOW STRIP

3 2/52 CONCRETE CHEEK WALL, TYP.

2 2/52 RAMP STAIR, TYP.

2 2/74 LIGHT POLE @ LAWN, TYP.

3 2/51 CONCRETE CURB, TYP.

1 2/51 10' WALK, TYP.

LAWN

PATH NO. 2

3 2/54 TYPICAL 10' WALK CROSS SECTION

2 2/52 RAMP STAIR, TYP.

3 2/52 CONCRETE CHEEK WALL, TYP.

1 2/52 CONC. STAIR DETAIL, TYP.

1 2/51 10' WALK, TYP.

7 2/51 CONCRETE CURB TERMINUS

6 12/4 TRASH RECEPTACLE, TYP.

1 2/51 10' WALK, TYP.

3 2/51 CONCRETE CURB, TYP.

RETAINING WALL #1, SEE RETAINING WALL PLAN DRAWING NO. 20.2/56

6 12/4 TRASH RECEPTACLE, TYP.

2 2/51 12' WALK, TYP.

TYPICAL 12' WALK CROSS SECTION SIMILAR

2 2/55 RECREATIONAL TRAIL RAILING DETAIL, TYP.

4 2/54

1,2,3 2/53 RECREATIONAL TRAIL BOLLARD DETAIL, TYP.

1 2/74 LIGHT POLE ON BOLLARD, TYP.

RETAINING WALL #2, SEE RETAINING WALL PLAN DRAWING NO. 20.2/56

END OF NEW RECREATIONAL TRAIL

2 2/55 END OF RECREATIONAL TRAIL RAILING

1,2,3 2/53 RECREATIONAL TRAIL BOLLARD DETAIL, TYP.

RETAINING WALL #3, SEE RETAINING WALL PLAN DRAWING NO. 20.2/56

1 2/74 LIGHT POLE ON BOLLARD, TYP.

6 12/4 TRASH RECEPTACLE, TYP.

PLANTER WALLS, SEE BROAD ST. PLAZA SECT. DRAWING NO. 20.2/67

7 2/51 CONCRETE CURB TERMINUS

6 12/4 TRASH RECEPTACLE, TYP.

END OF NEW CONC. WALK, MEET FLUSH WITH EXISTING.

3 2/51 CONCRETE CURB @ PLANTING AREA, TYP.

7 2/51 CONCRETE CURB TERMINUS

3 2/51 CONCRETE CURB, TYP.

7 2/51 CONCRETE CURB TERMINUS

END OF NEW CONC. WALK, MEET FLUSH WITH EXISTING.

3 2/51 CONCRETE CURB, TYP.

2 2/74 LIGHT POLE @ LAWN, TYP.

1 2/51 10' WALK, TYP.

3 2/51 CONCRETE CURB, TYP.

EXISTING MARKER TO REMAIN

RELOCATED BRIDGE REMNANT

LAWN

TRANSITION FROM 9" TH. WALK TO 6" TH. WALK

3 2/54 TYPICAL 10' WALK CROSS SECTION

PATH NO. 1

3 2/51 CONCRETE CURB, TYP.

LAWN

10'-11½"

165+00 166+00 167+00 168+00 169+00

717.6 725 730 733.9 733.8 733.9 728.3 716.9 720.4 718.3 717.3

LEGEND

- CWL — CONTRACTOR'S WORK LIMIT
- FUTURE WORK
- 165+00 — CENTERLINE OF FLOOD PROTECTION
- PRECAST CONCRETE BOLLARD
- TRELLIS COLUMN
- LIGHT POLE ON CONCRETE PAD
- UPLIGHT ON TRELLIS COLUMN
- LIGHT POLE ON BOLLARD
- TRASH RECEPTACLE
- BENCH
- (A) COLUMN LINE

NOTES

1. FOR GRADING PLANS, SEE DRAWING NOS. 20.2/33 AND 20.2/34.
2. FOR PLANTING INFORMATION, SEE DRAWING NOS. 12/1 THROUGH 12/4.
3. FOR IRRIGATION INFORMATION, SEE DRAWING NOS. 12/5 THROUGH 12/7.

PLAN

SCALE: 1"=20'

20' 0 20'

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved
◇	REV. BY CONTRACT MODIFICATION LETTER MC011	12/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: CLO /DRB
Checked by: NJD
Reviewed by:
Approved by:

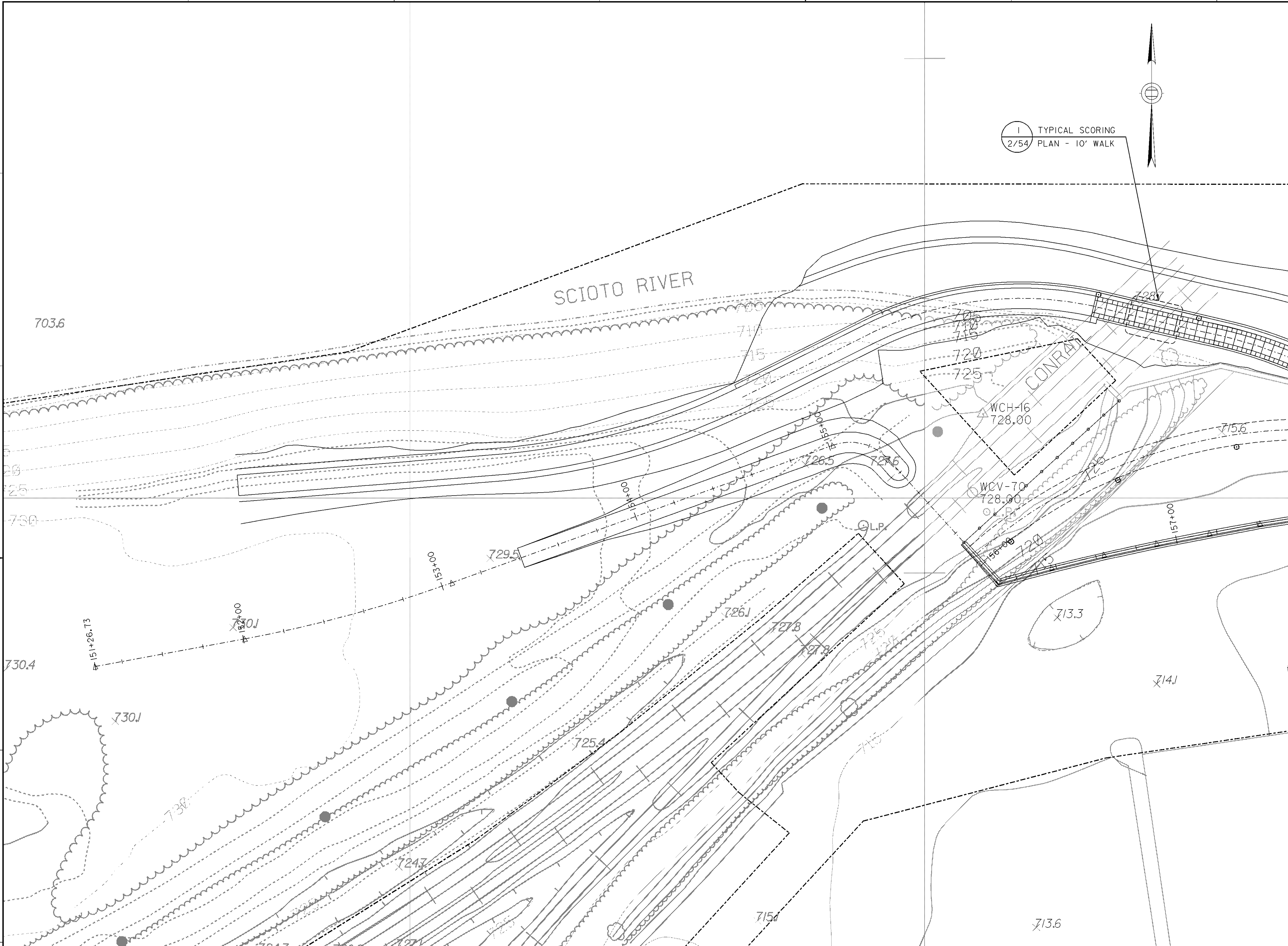
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MATERIALS PLAN (3 OF 3)

Scale: 1"=20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/40
Sheet 3 of 3

WORK AS CONSTRUCTED



LEGEND

CWL	CONTRACTOR'S WORK LIMIT
	FUTURE WORK
	SCORE JOINT
	EXPANSION JOINT
165+00	CENTERLINE OF FLOOD PROTECTION
	PRECAST CONCRETE BOLLARD
	TRELLIS COLUMN
	LIGHT POLE ON CONCRETE PAD
	UPLIGHT ON TRELLIS COLUMN
	LIGHT POLE ON BOLLARD
	TRASH RECEPTACLE
	BENCH
A	COLUMN LINE

NOTES

1. PATCH ALL PAVING OUTSIDE CONTACTORS LIMIT OF WORK DISTURBED DURING CONSTRUCTION. ELEVATION TO MATCH EXISTING GRADE.

PLAN

SCALE: 1"=20'
20' 0 20'

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: CLO /DRB /GMF
Checked by: NJD
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PAVEMENT JOINTING PLAN (1 OF 3)

Scale: 1"=20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/41
Sheet 1 of 3

WORK AS CONSTRUCTED

PHASE IID SHEET 152 OF 256

PLAN

SCALE: 1"=20'

20' 0 20'

LEGEND

- CONTRACTOR'S WORK LIMIT
- FUTURE WORK
- SCORE JOINT
- EXPANSION JOINT
- 159+00 CENTERLINE OF FLOOD PROTECTION
- PRECAST CONCRETE BOLLARD
- TRELLIS COLUMN
- LIGHT POLE ON CONCRETE PAD
- UPLIGHT ON TRELLIS COLUMN
- LIGHT POLE ON BOLLARD
- TRASH RECEPTACLE
- BENCH
- (A) COLUMN LINE

NOTES

1. PATCH ALL PAVING OUTSIDE CONTACTORS LIMIT OF WORK DISTURBED DURING CONSTRUCTION. ELEVATION TO MATCH EXISTING GRADE.

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions			
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BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: CLO /DRB /GMF
Checked by: NJD
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PAVEMENT JOINTING PLAN (2 OF 3)

Scale: 1" = 20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/42
Sheet 2 of 3

WORK AS CONSTRUCTED

PLAN

SCALE: 1"=20'

20' 0 20'

LEGEND

- CWL — CONTRACTOR'S WORK LIMIT
- FUTURE WORK
- SCORE JOINT
- EXPANSION JOINT
- 191+00 — CENTERLINE OF FLOOD PROTECTION
- PRECAST CONCRETE BOLLARD
- TRELLIS COLUMN
- LIGHT POLE ON CONCRETE PAD
- UPLIGHT ON TRELLIS COLUMN
- LIGHT POLE ON BOLLARD
- TRASH RECEPTACLE
- BENCH
- (A) COLUMN LINE

NOTES

1. PATCH ALL PAVING OUTSIDE CONTACTORS LIMIT OF WORK DISTURBED DURING CONSTRUCTION. ELEVATION TO MATCH EXISTING GRADE.

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved
◇	REV. BY CONTRACT MODIFICATION LETTER MC011	12/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: CLO /DRB /GMF
Checked by: NJD
Reviewed by:
Approved by:

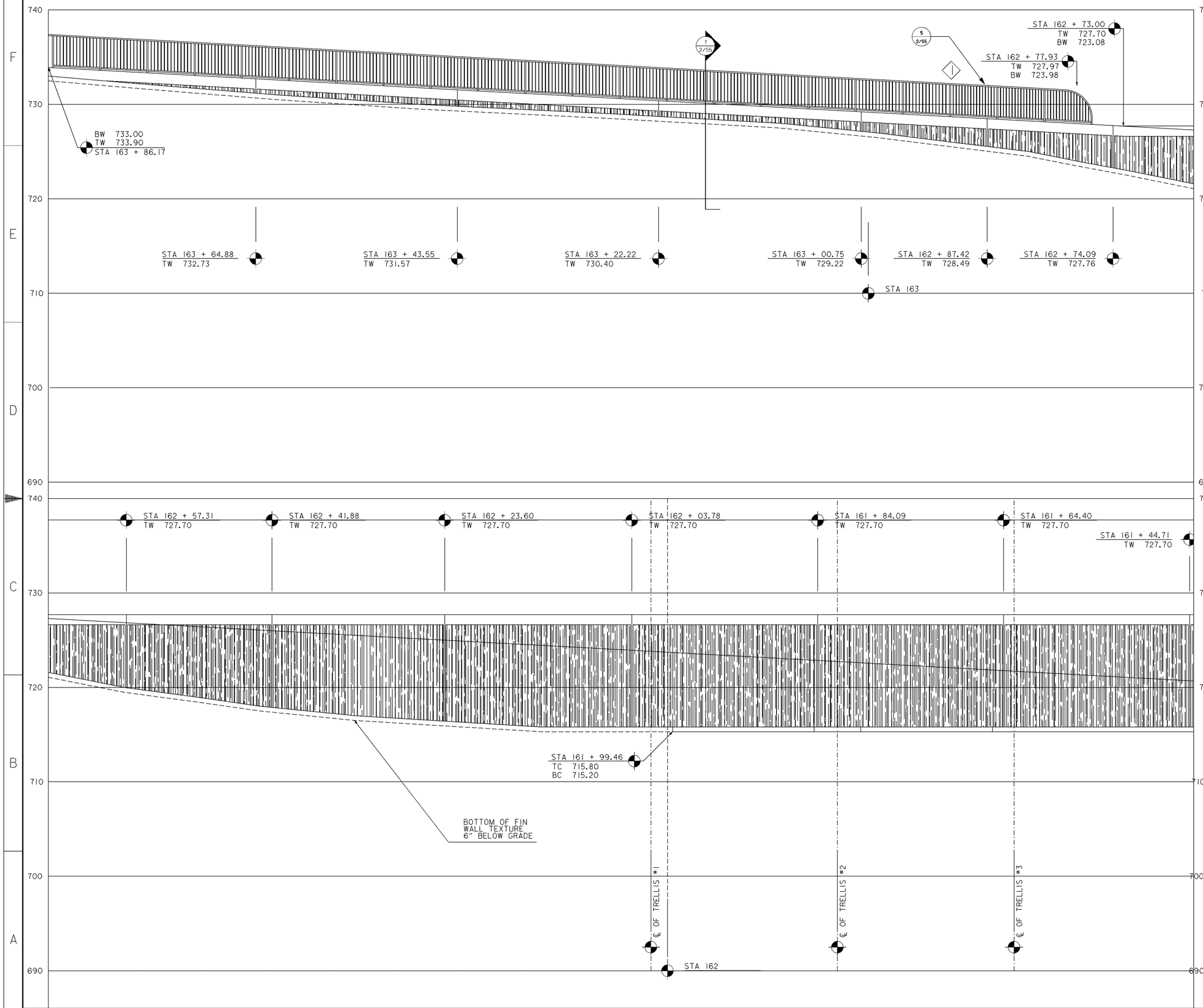
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

PAVEMENT JOINTING PLAN (3 OF 3)

Scale: 1"=20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/43
Sheet 3 of 3

WORK AS CONSTRUCTED



SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4-23-98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: GMF
Checked by: NJD
Reviewed by:
Approved by:

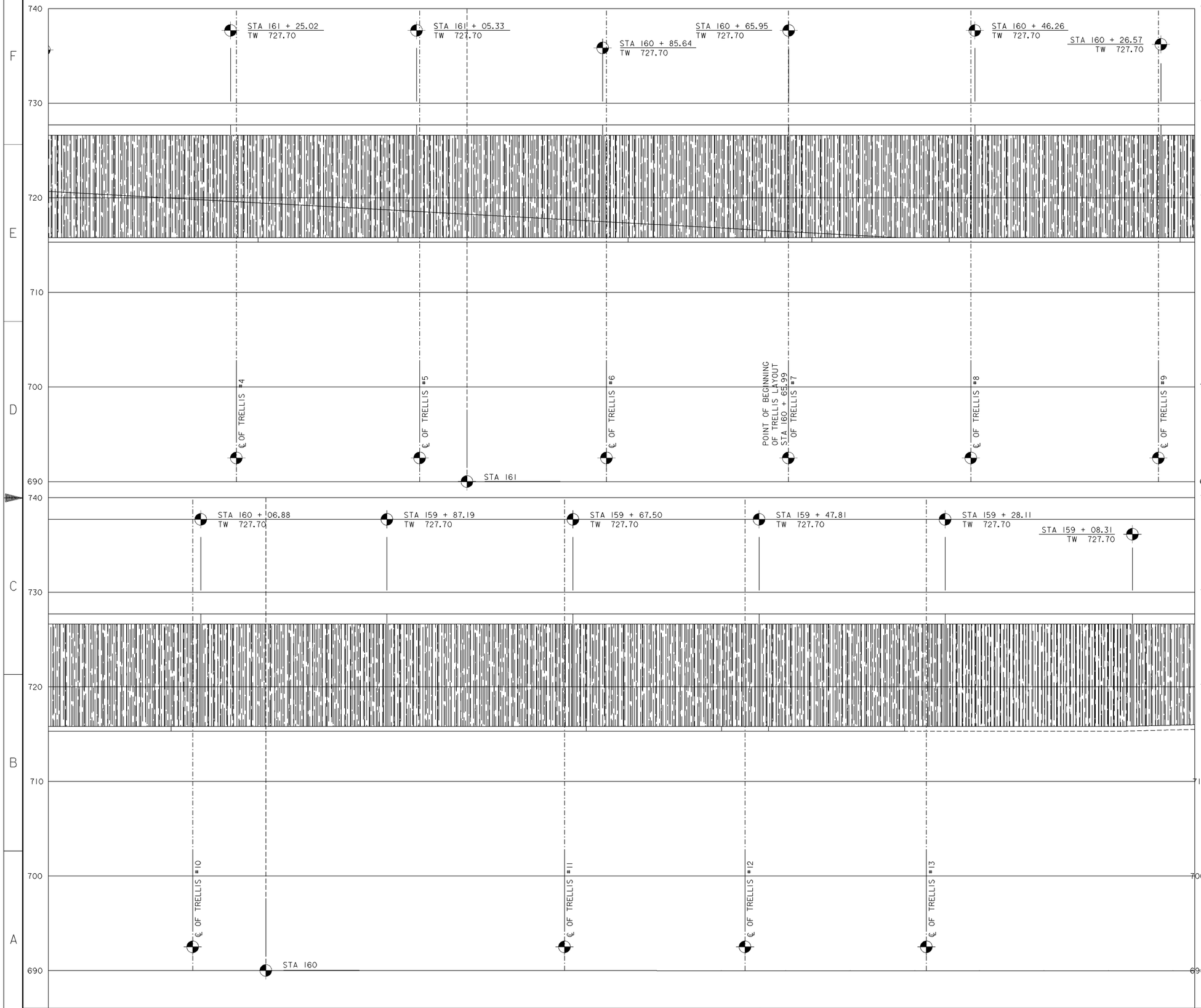
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

FLOODWALL ELEVATION (1 OF 3)

Scale: 1/4" = 1'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2 /44
Sheet 1 of 3

WORK AS CONSTRUCTED



SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: GMF
Checked by: NJD
Reviewed by:
Approved by:

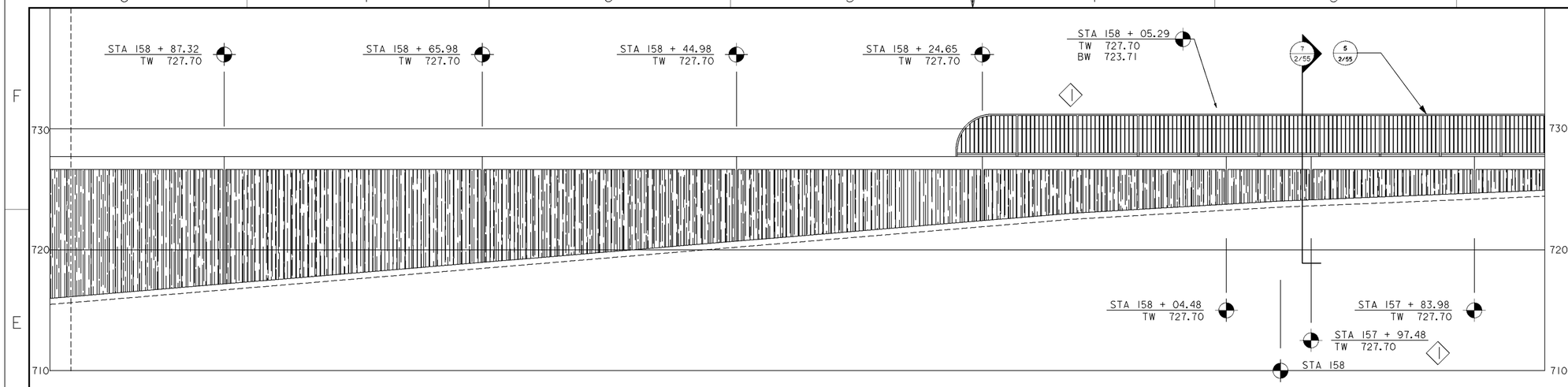
US Army Corps of Engineers

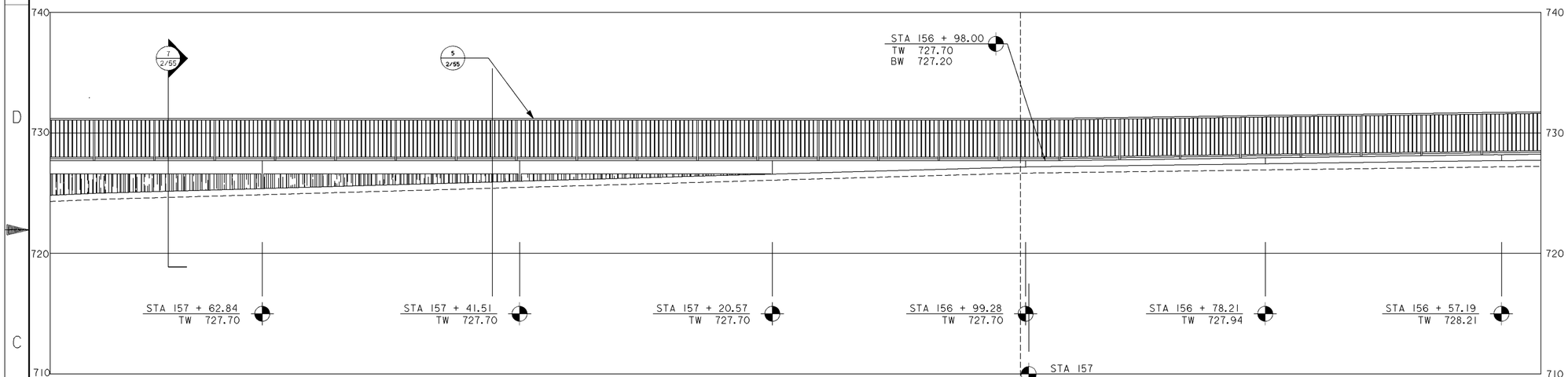
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

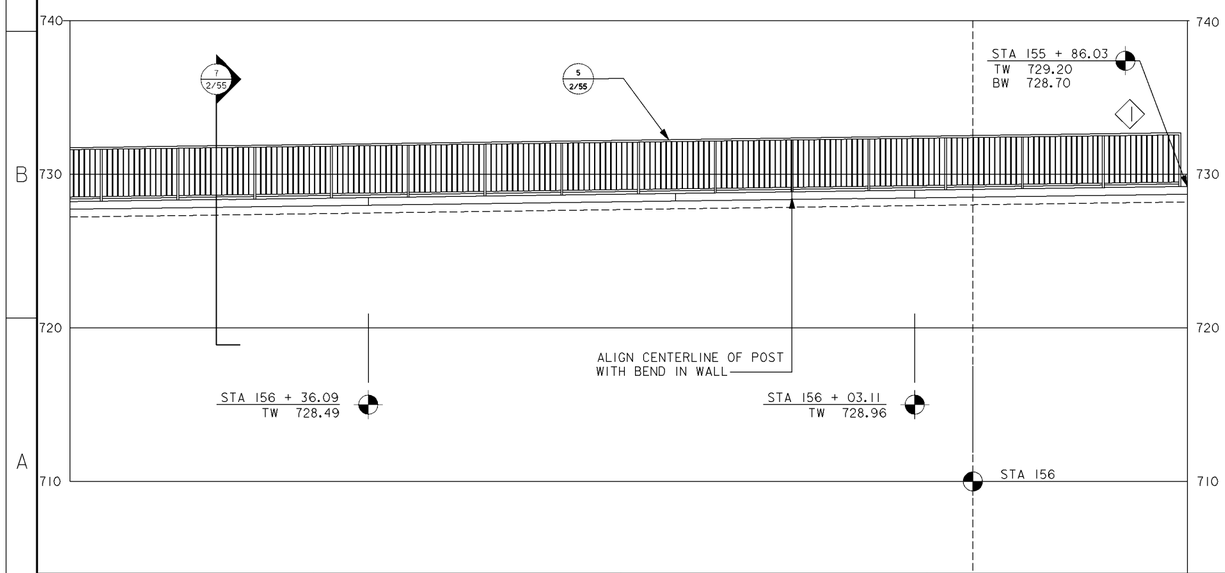
FLOODWALL ELEVATION (2 OF 3)

Scale: 1" = 20'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2 /45
Sheet 2 of 3

WORK AS CONSTRUCTED







SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS SCHMALENBERGER, INC. COLUMBUS, OHIO

Revisions

Symbol	Descriptions	Date	Approved
1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4-23-98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: GMF
Checked by: NJD
Reviewed by:
Approved by:

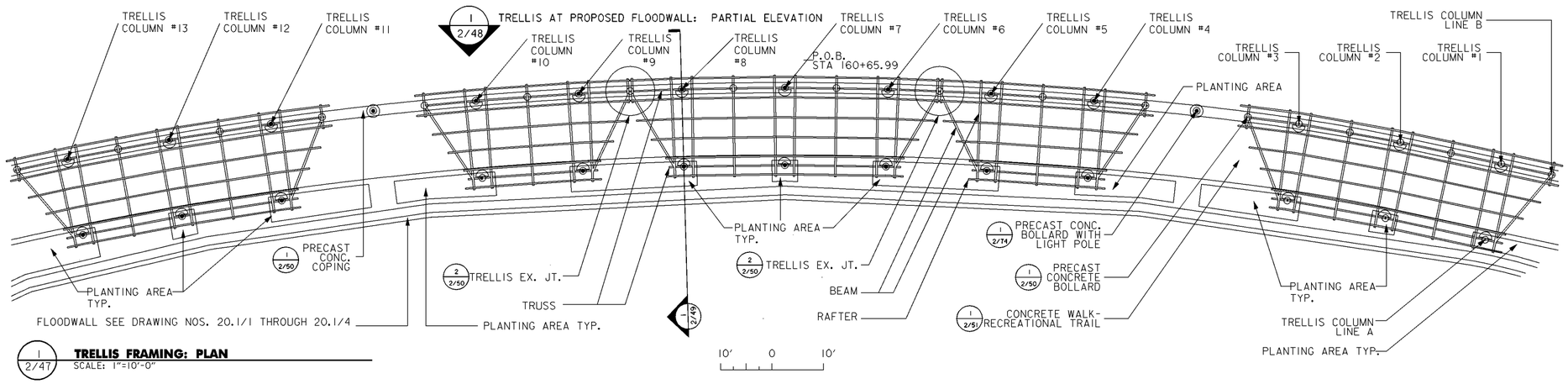
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

FLOODWALL ELEVATION (3 OF 3)

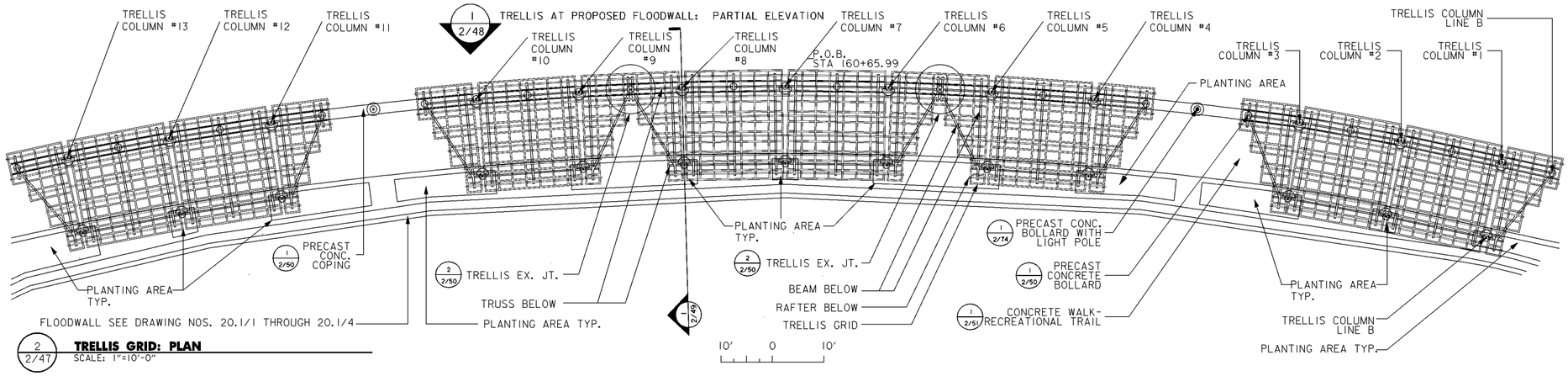
Scale: 1/4" = 1'-0"
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2 /46
Sheet 3 of 3

WORK AS CONSTRUCTED



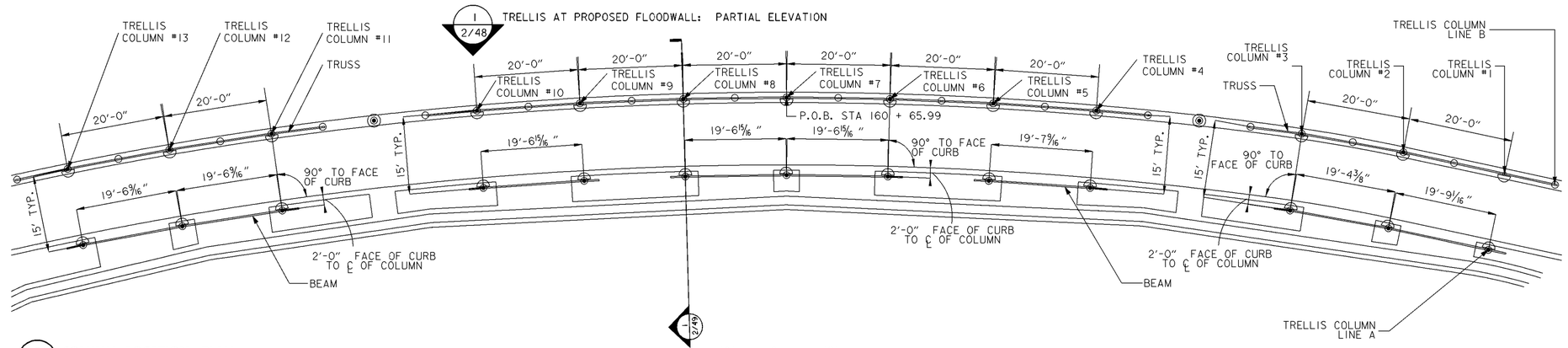
1/2:48 TRELLIS AT PROPOSED FLOODWALL: PARTIAL ELEVATION

1/2:47 **TRELLIS FRAMING: PLAN**
SCALE: 1"=10'-0"



1/2:48 TRELLIS AT PROPOSED FLOODWALL: PARTIAL ELEVATION

2/2:47 **TRELLIS GRID: PLAN**
SCALE: 1"=10'-0"



1/2:48 TRELLIS AT PROPOSED FLOODWALL: PARTIAL ELEVATION

3/2:47 **COLUMN LOCATION: PLAN**
SCALE: 1"=10'-0"

NOTES

1. SEE SPECIFICATIONS FOR FINISHES.
2. STEEL FABRICATION SHOP DRAWINGS, INCLUDING ALL WELD DETAILS, SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER.
3. P.O.B. = POINT OF BEGINNING.

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS-SCHMALENBURGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD /ATM
Drawn by: CLO /GMF
Checked by: NJD
Reviewed by:
Approved by:

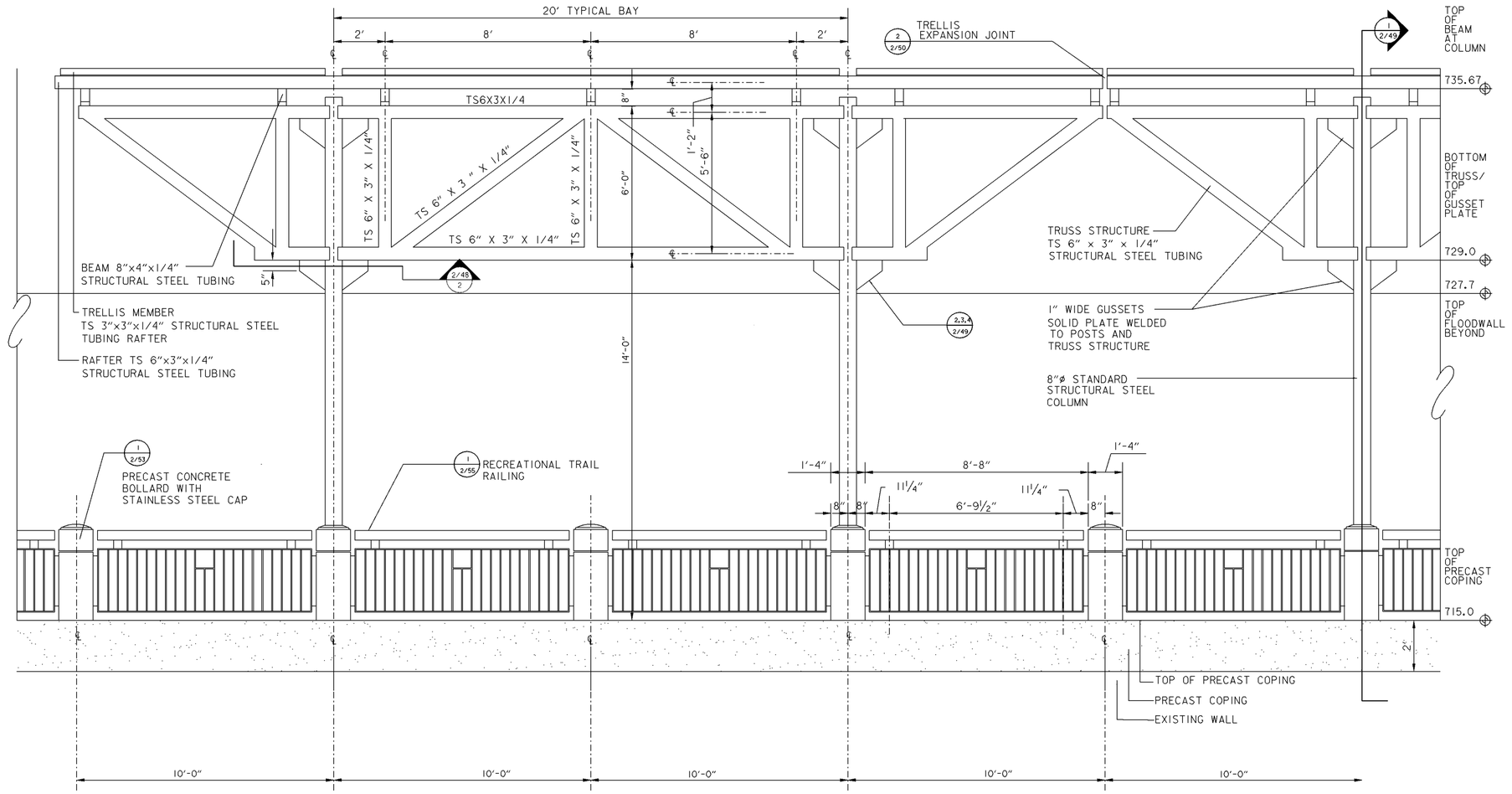
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

TRELLIS PLAN

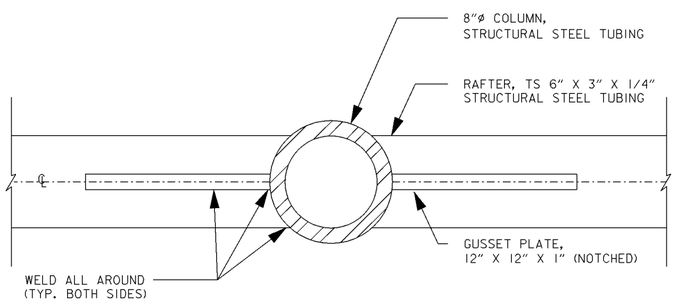
Scale: AS NOTED
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/47
FILENAME: PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



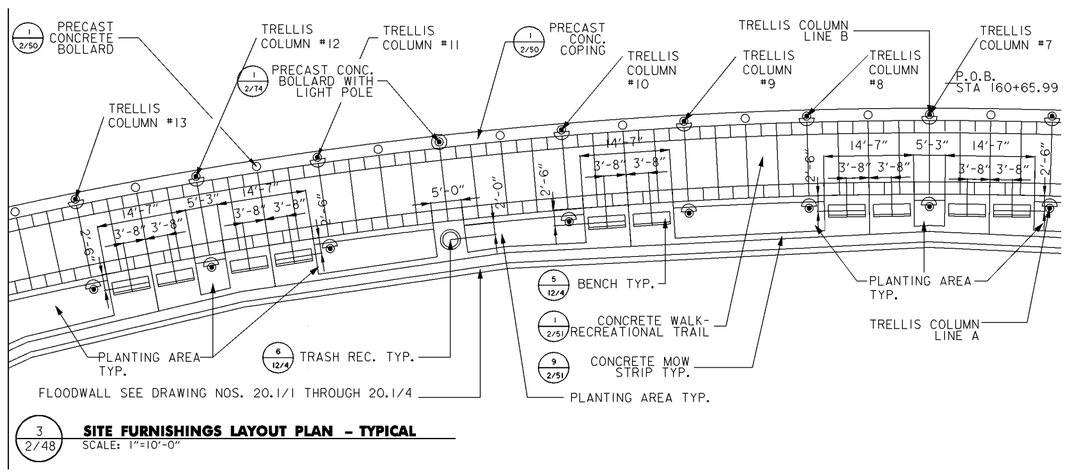
1/2/48 TRELLIS AT PROPOSED FLOODWALL: PARTIAL ELEVATION (RIVERSIDE)
SCALE: 1/2"=1'-0"

2' 0 2'



2/2/48 TYPICAL GUSSET CONNECTION: SECTION
SCALE: 3"=1'-0"

12" 8" 4" 0 4" 8" 12"



3/2/48 SITE FURNISHINGS LAYOUT PLAN - TYPICAL
SCALE: 1"=10'-0"

10' 5' 0 10'

NOTES

1. SEE SPECIFICATIONS FOR FINISHES.
2. STEEL FABRICATION SHOP DRAWINGS, INCLUDING ALL WELD DETAILS, SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER.

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS-SCHMALENBURGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: IS /GMF /CLB
Checked by: NJD
Reviewed by: CLO
Approved by:

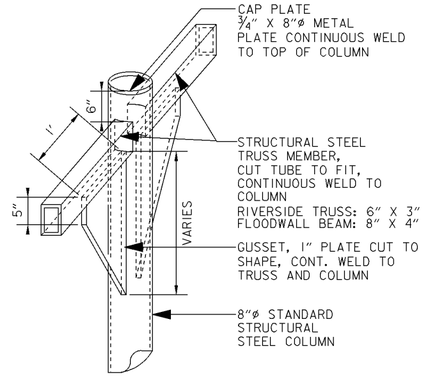
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

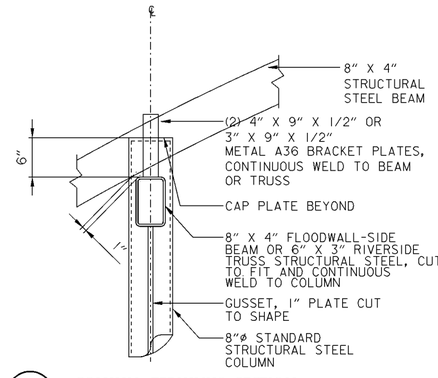
TRELLIS DETAILS (1 OF 3)

Scale: AS NOTED
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/48
FILENAME: PEN TABLE:
Sheet 1 of 3

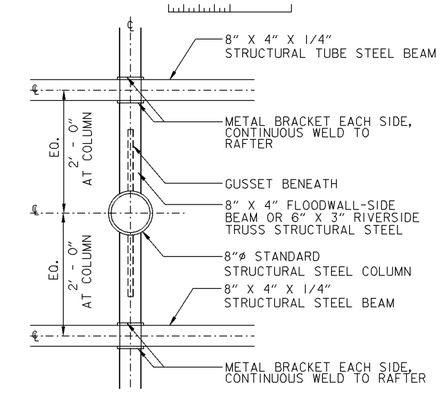
WORK AS CONSTRUCTED



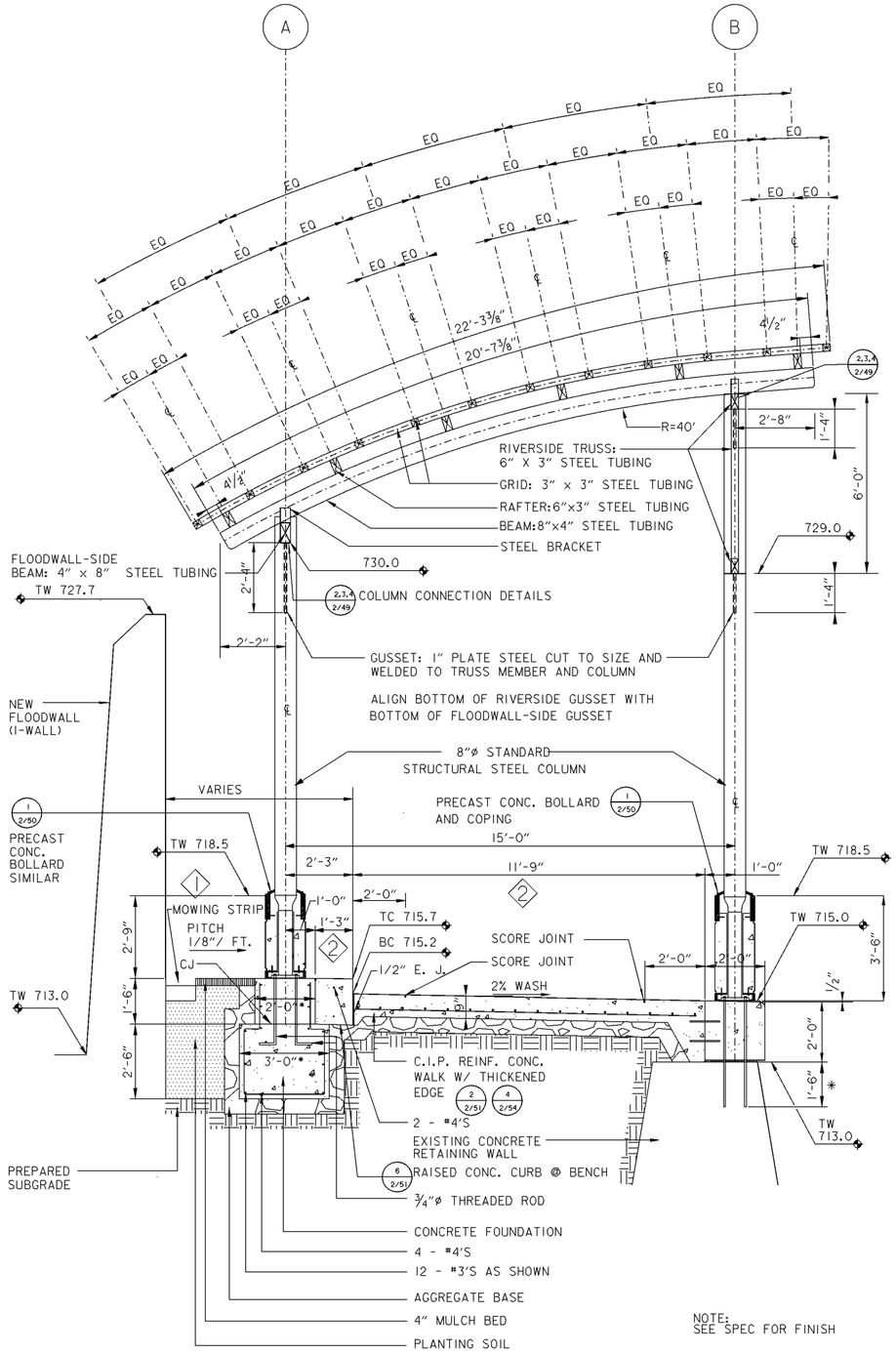
2/49 **COLUMN TERMINUS: AXONOMETRIC**
SCALE: 1"=1'-0"



3/2/49 **COLUMN TERMINUS: SECTION**
SCALE: 1"=1'-0"



4/2/49 **COLUMN TERMINUS: PLAN**
SCALE: 1"=1'-0"



1/2/49 **CROSS SECTION AT TRELLIS**
SCALE: 1/2"=1'-0"

NOTE:
SEE SPEC FOR FINISH

NOTES

1. FOR PRECAST CONCRETE COPE DETAILS, SEE DRAWING NO. 20.2/64.
2. STEEL FABRICATION SHOP DRAWINGS, INCLUDING ALL WELD DETAILS, SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER.
3. SEE SPECIFICATIONS FOR FINISHES.

2 * 1'-6" EMBEDMENT AT COPING END (CAP PLUG)
2'-0" EMBEDMENT AT BOLLARD LOCATIONS

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS-SCHMALENBURGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4-23-98	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: IS /CLB /GMF
Checked by: CLO
Reviewed by: NJD
Approved by:

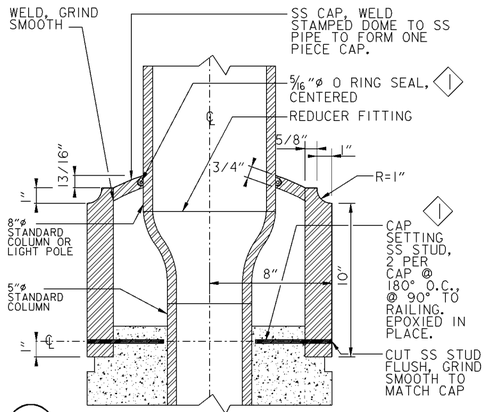
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

TRELLIS DETAILS (2 OF 3)

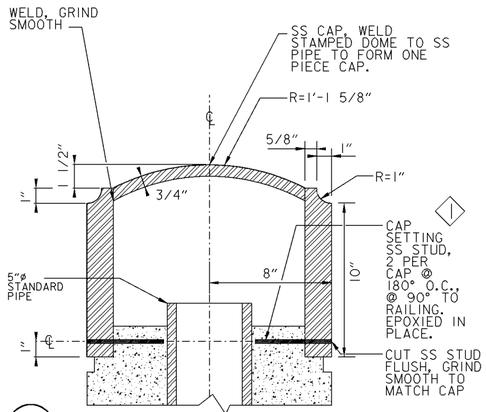
Scale: AS NOTED
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/49
FILENAME: PEN TABLE:
Sheet 2 of 1

WORK AS CONSTRUCTED



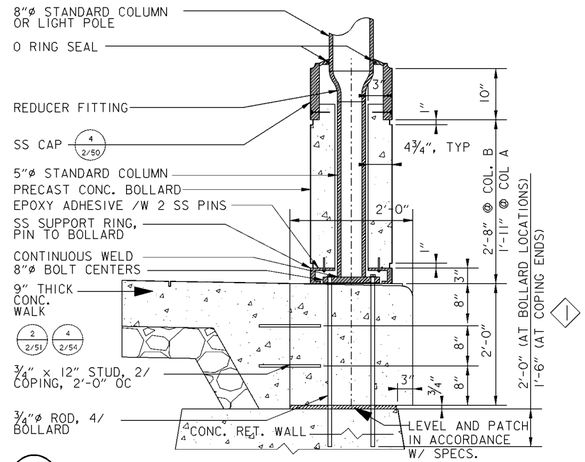
4/2/50 **SS CAP @ COLUMN/LIGHT POLE: SECTION**
SCALE: 3"=1'-0"

12" 8" 4" 0 4" 8" 12"



3/2/50 **STAINLESS STEEL CAP: SECTION**
SCALE: 3"=1'-0"

12" 8" 4" 0 4" 8" 12"

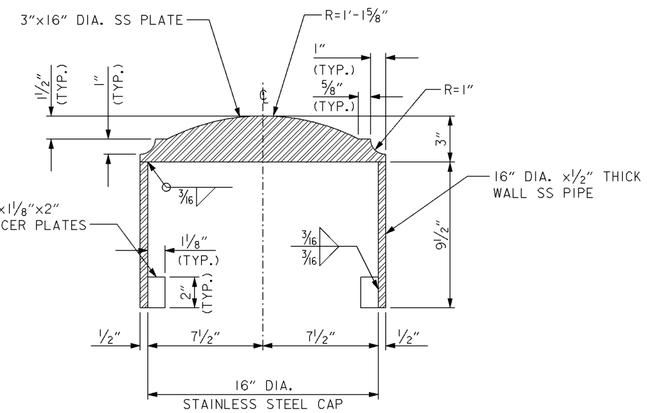


1/2/50 **BOLLARD COPING CONNECTION: SECTION**
SCALE: 1"=1'-0"

1' 0 1'

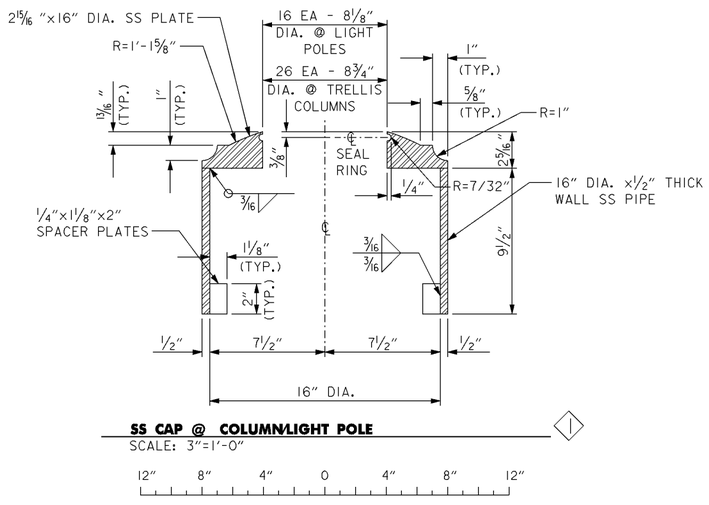
NOTES

1. SEE SPECIFICATIONS FOR FINISHES.
2. STEEL FABRICATION SHOP DRAWINGS, INCLUDING ALL WELD DETAILS, SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER.



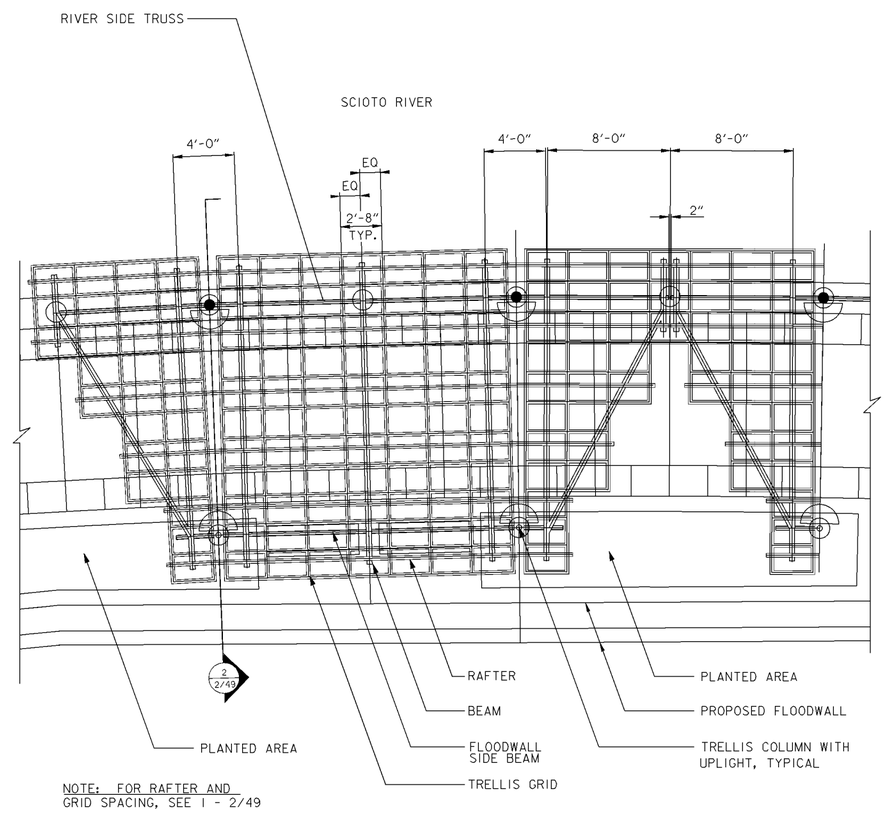
STAINLESS STEEL CAP
SCALE: 3"=1'-0"

12" 8" 4" 0 4" 8" 12"



SS CAP @ COLUMN/LIGHT POLE
SCALE: 3"=1'-0"

12" 8" 4" 0 4" 8" 12"



NOTE: FOR RAFTER AND GRID SPACING, SEE 1 - 2/49

2/2/50 **TRELLIS EXPANSION JOINT AND CANTILEVER: PLAN**
SCALE: 1/4"=1'-0"

1'0 5' 10'

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
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Revisions			
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1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: CLC/GMF
Checked by: CLC/DRB
Reviewed by: NJD
Approved by:

US Army Corps of Engineers

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COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
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TRELLIS DETAILS (3 OF 3)

Scale: AS NOTED
Date: MARCH 1998
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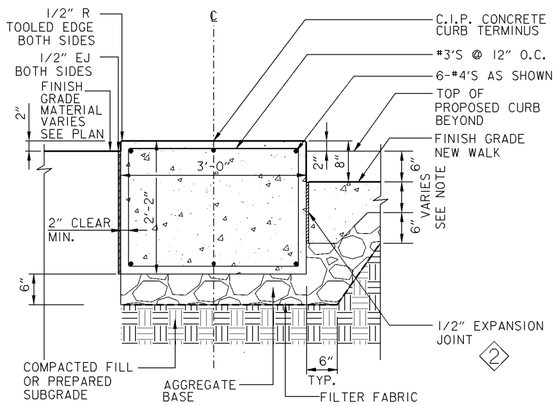
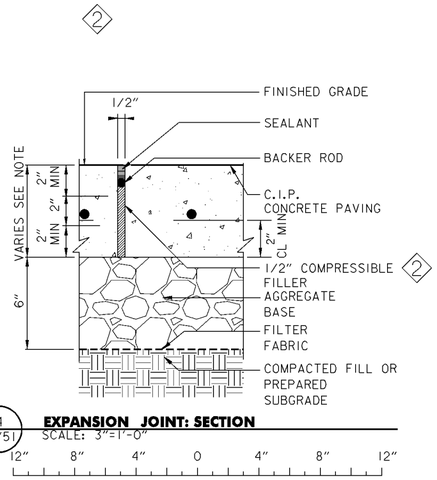
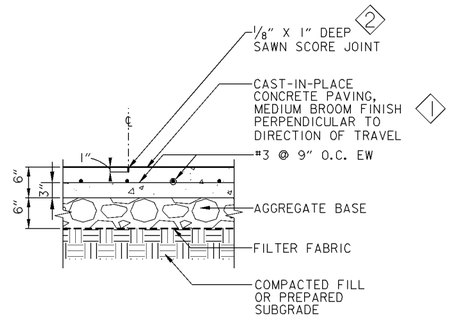


7 / 2/51 **SQUARE CONCRETE CURB TERMINUS**
SCALE: 1"=1'-0"
1' 0 1'

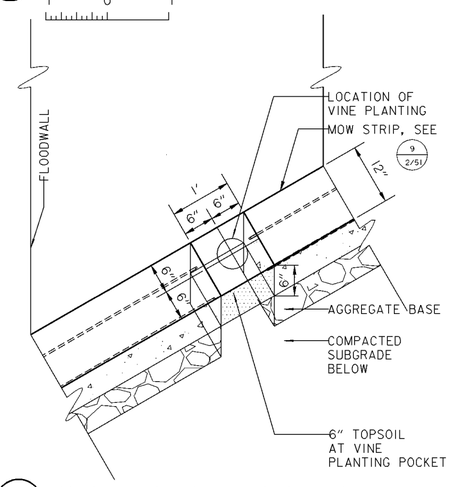


4 / 2/51 **EXPANSION JOINT: SECTION**
SCALE: 3"=1'-0"
12" 8" 4" 0 4" 8" 12"

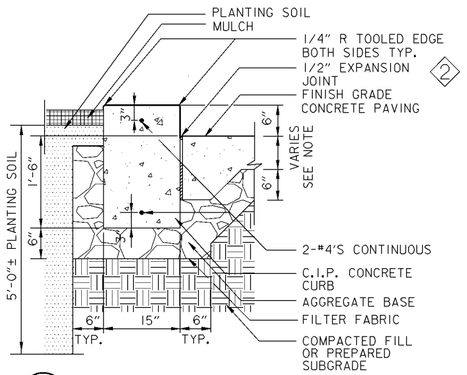


1 / 2/51 **10' WIDE C.I.P. WALK: SECTION**
SCALE: 1"=1'-0"
1' 0 1'

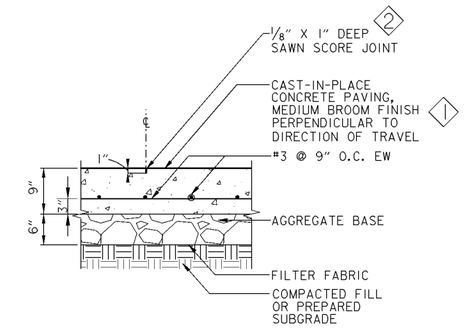
NOTES
1. 2" MIN. CONC. COVER THROUGHOUT.
2. ALL REBAR SHALL BE EPOXY COATED.
3. ALL 10' WIDE WALKS ARE 6" DEEP.
4. ALL 12' WIDE WALKS ARE 9" DEEP.



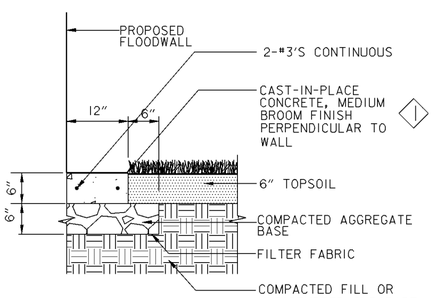
8 / 2/51 **CONCRETE MOW STRIP: AXONOMETRIC**
SCALE: 1"=1'-0"
1' 0 1'



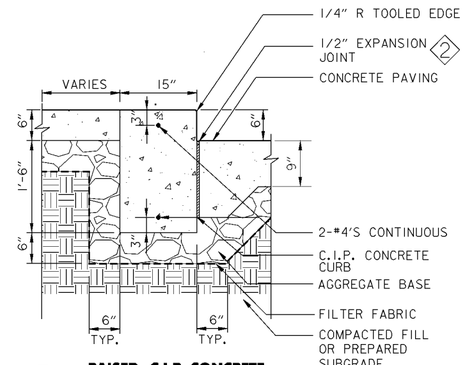
5 / 2/51 **C.I.P. CONCRETE CURB @ PLANTING AREA**
SCALE: 1"=1'-0"
1' 0 1'



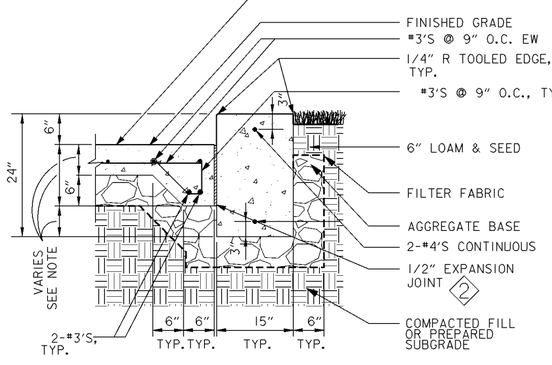
2 / 2/51 **12' WIDE C.I.P. WALK: SECTION**
SCALE: 1"=1'-0"
1' 0 1'



9 / 2/51 **CONCRETE MOW STRIP: SECTION**
SCALE: 1"=1'-0"
1' 0 1'



6 / 2/51 **RAISED C.I.P. CONCRETE CURB @ BENCH PLATFORMS**
SCALE: 1"=1'-0"
1' 0 1'



3 / 2/51 **CONCRETE WALK WITH CURB: SECTION**
SCALE: 1"=1'-0"
1' 0 1'

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Revisions			
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2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4-23-98	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: IS /CLB /GMF
Checked by: CLO
Reviewed by: NJD
Approved by:

US Army Corps of Engineers

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COLUMBUS, OHIO
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SITE DETAILS (1 OF 4)

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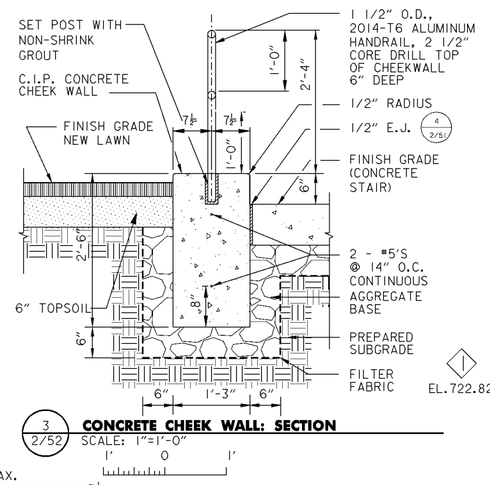
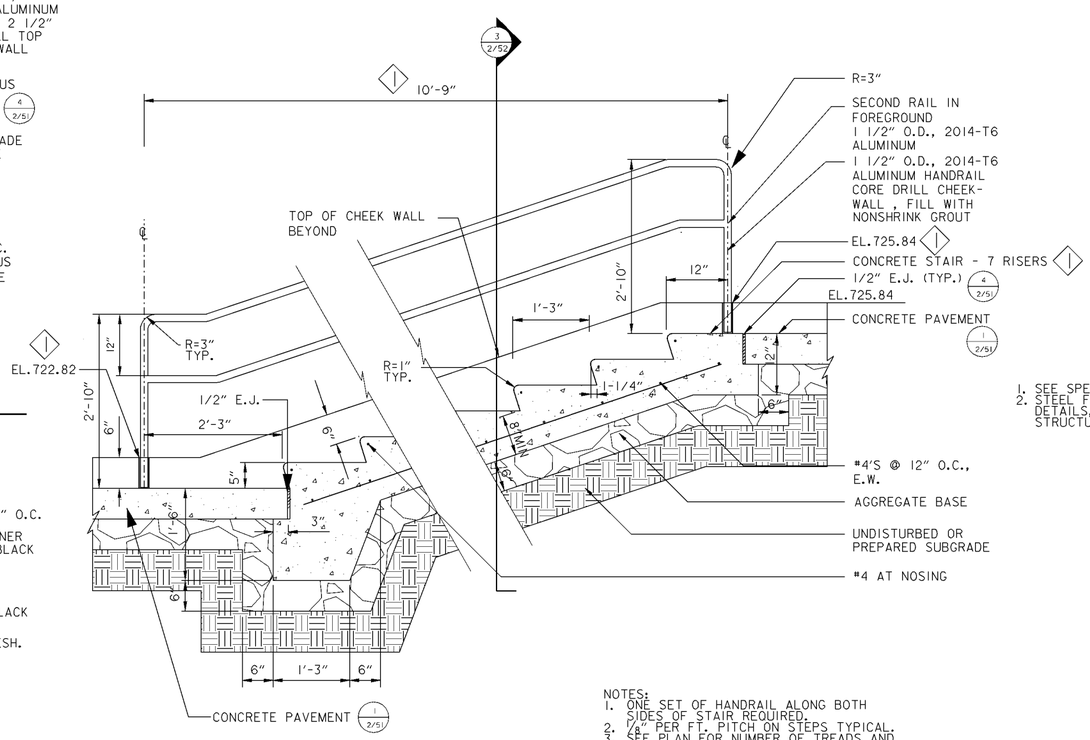
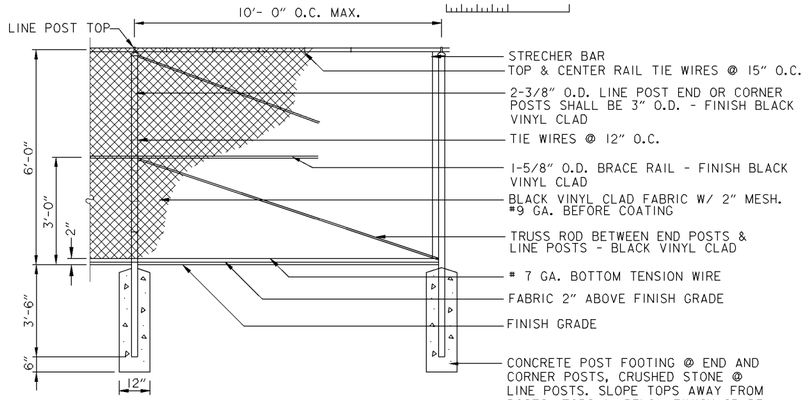
WORK AS CONSTRUCTED



3 2/52 **CONCRETE CHEEK WALL: SECTION**
SCALE: 1"=1'-0"



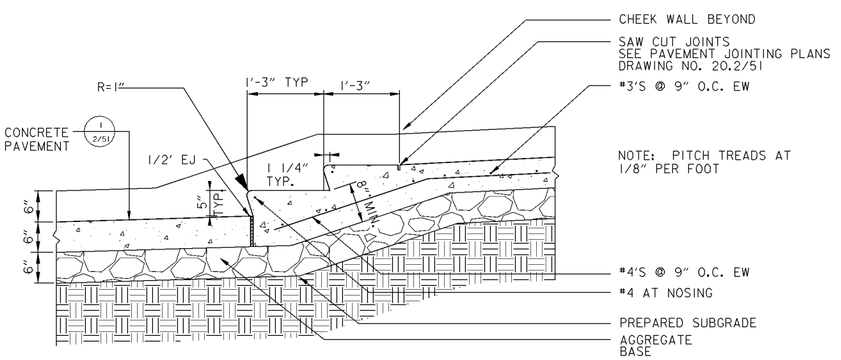
NOTES
1. SEE SPECIFICATIONS FOR FINISHES.
2. STEEL FABRICATION SHOP DRAWINGS, INCLUDING ALL WELD DETAILS, SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER.



4 2/52 **CHAIN LINK FENCE DETAIL**
SCALE: 1/2"=1'-0"
2' 1' 0 2'

NOTES:
1. ONE SET OF HANDRAIL ALONG BOTH SIDES OF STAIR REQUIRED.
2. 1/8" PER FT. PITCH ON STEPS TYPICAL.
3. SEE PLAN FOR NUMBER OF TREADS AND RISERS.

1 2/52 **CONCRETE STAIR DETAIL - TYPICAL (PATH NO. 2 NEAR INTERSECTION OF BROAD ST.)**
SCALE: 1"=1'-0"
1' 0 1'



2 2/52 **RAMP STAIR DETAIL - TYPICAL (PATH NO. 2)**
SCALE: 1"=1'-0"
1' 0 1'

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COLUMBUS, OHIO

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US Army Corps of Engineers

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SITE DETAILS (2 OF 4)

Scale: AS NOTED
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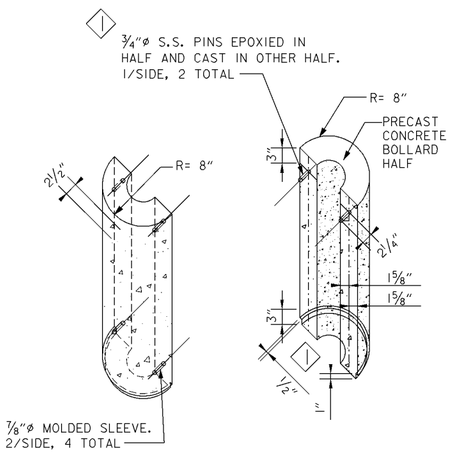
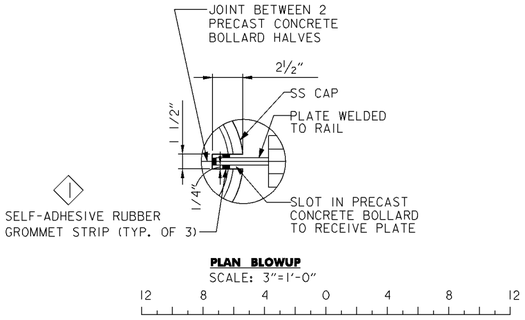
Sheet 2 of 4

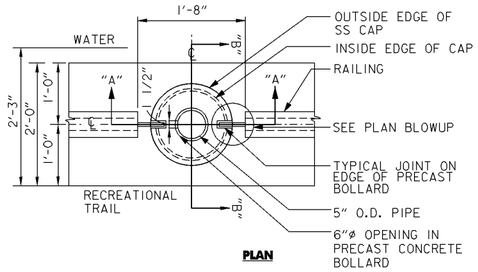
WORK AS CONSTRUCTED



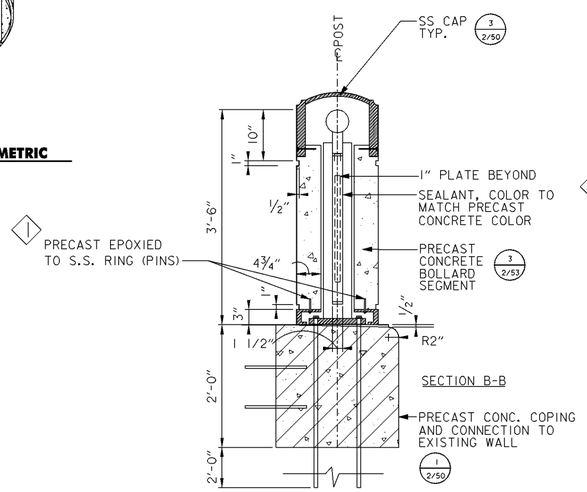
3/2/53 **PRECAST BOLLARD SEGMENTS: AXONOMETRIC**
N.T.S.

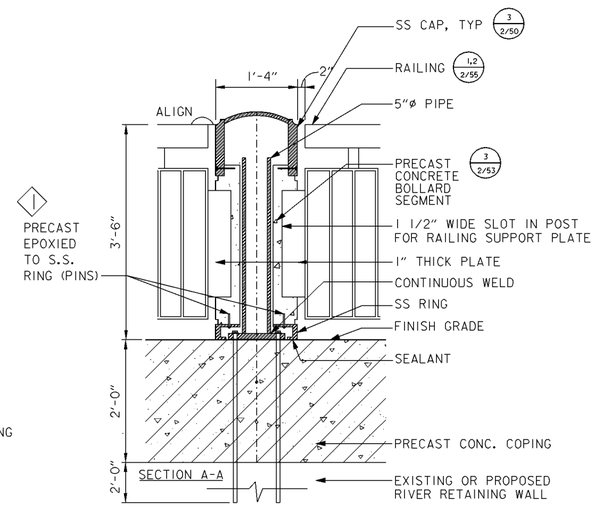


PLAN BLOWUP
SCALE: 3"=1'-0"

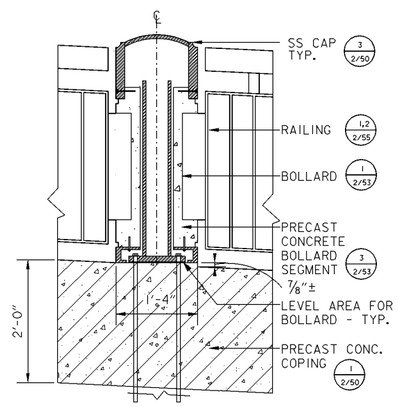


PLAN





1/2/53 **TYPICAL RECREATIONAL TRAIL BOLLARD DETAIL**
SCALE: 1"=1'-0"



2/2/53 **BOLLARD AT SLOPE: SECTION**
SCALE: 1"=1'-0"

NOTES

1. SEE SPECIFICATIONS FOR FINISHES.
2. STEEL FABRICATION SHOP DRAWINGS, INCLUDING ALL WELD DETAILS, SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER.

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U.S.ARMY ENGINEER DISTRICT
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HUNTINGTON, WEST VIRGINIA

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SITE DETAILS (3 OF 4)

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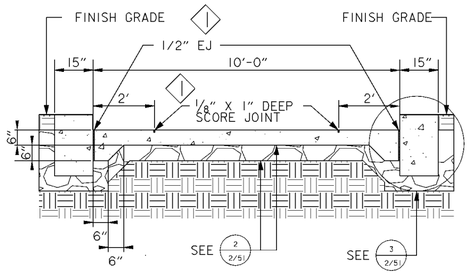
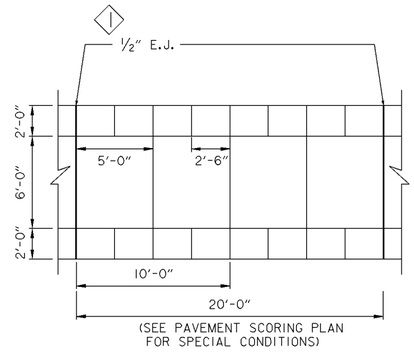
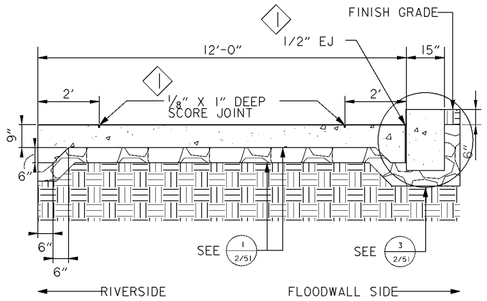


3/2/54 **TYPICAL 10' WALK CROSS SECTION**
SCALE: 1/2"=1'-0"

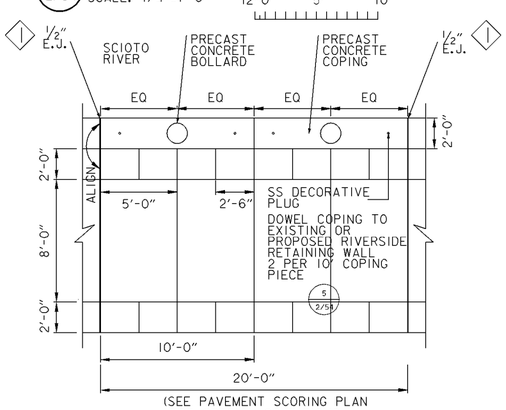


1/2/54 **TYPICAL SCORING PLAN - 10' WALK**
SCALE: 1/4"=1'-0"

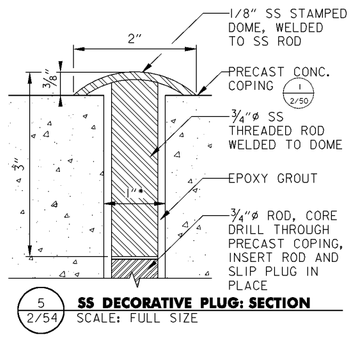
NOTES
1. ALL REINFORCING DETAILS SHOWN ON DRAWING NO. 20.2/51.
2. SEE SPECIFICATIONS FOR FINISHES.
3. PROVIDE EXP. JTS. IN COPING AT EXP. JTS. IN RIVER WALL.



4/2/54 **TYPICAL 12' WALK CROSS SECTION**
SCALE: 1/2"=1'-0"



2/2/54 **TYPICAL SCORING PLAN - 12' WALK**
SCALE: 1/4"=1'-0"



5/2/54 **SS DECORATIVE PLUG: SECTION**
SCALE: FULL SIZE

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SITE DETAILS (4 OF 4)

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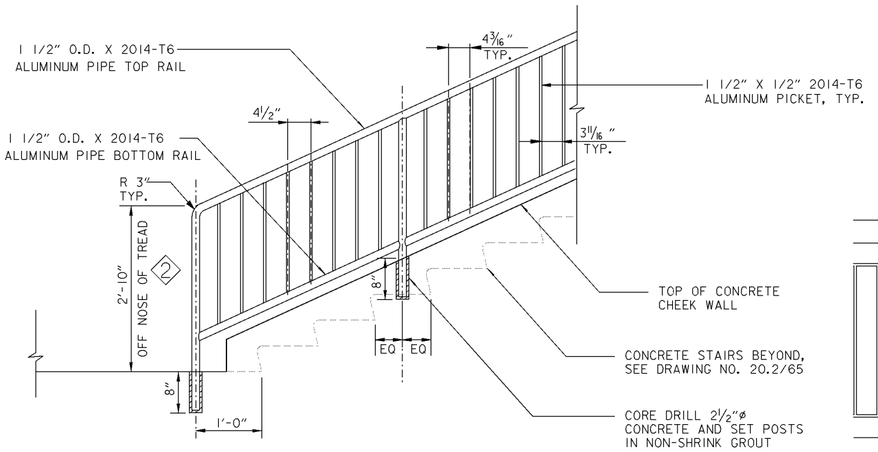
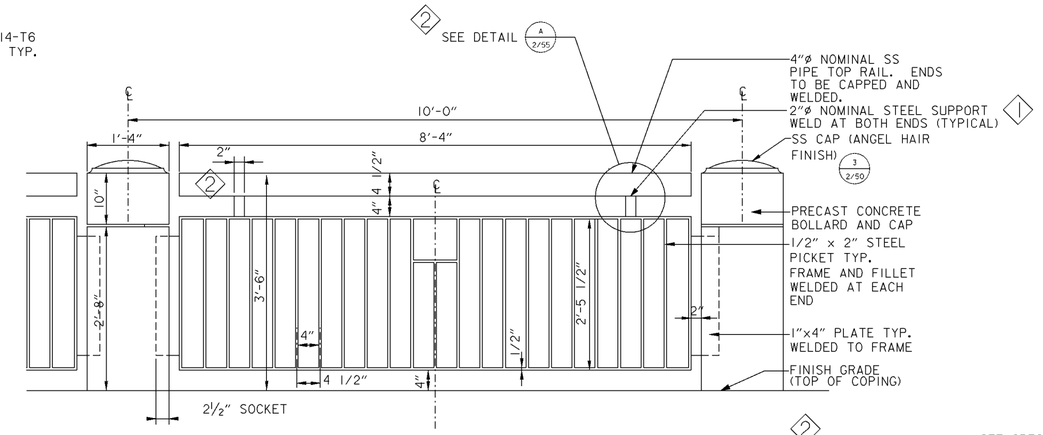


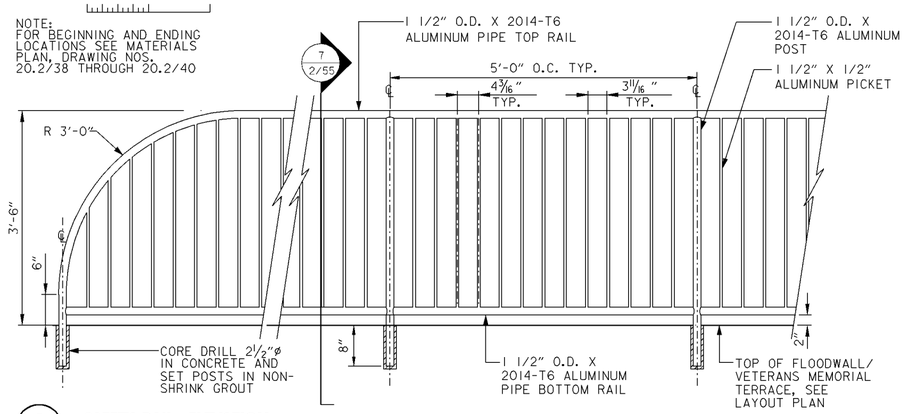
4 / 2/55 SAFETY HAND RAIL: ELEVATION
SCALE: 1"=1'-0"



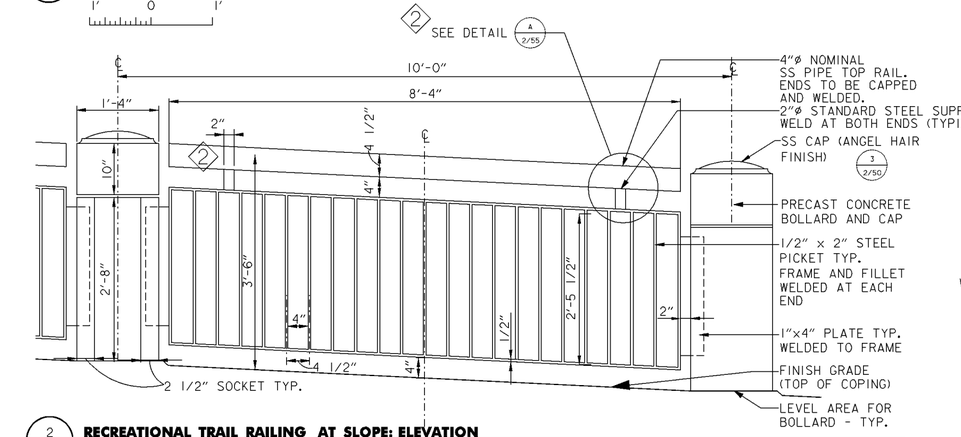
1 / 2/55 TYPICAL RECREATIONAL TRAIL RAILING: ELEVATION
SCALE: 1"=1'-0"

NOTES
1. SEE SPECIFICATIONS FOR FINISHES.
2. STEEL FABRICATION SHOP DRAWINGS, INCLUDING ALL WELD DETAILS, SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER.

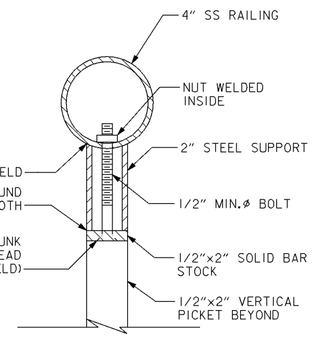
NOTE:
FOR BEGINNING AND ENDING LOCATIONS SEE MATERIALS PLAN, DRAWING NOS. 20.2/38 THROUGH 20.2/40



5 / 2/55 SAFETY RAIL: ELEVATION
SCALE: 1"=1'-0"

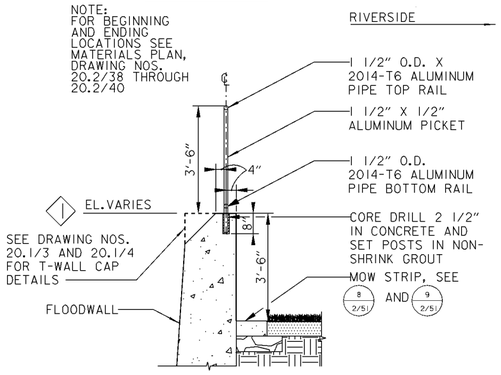


2 / 2/55 RECREATIONAL TRAIL RAILING AT SLOPE: ELEVATION
SCALE: 1"=1'-0"

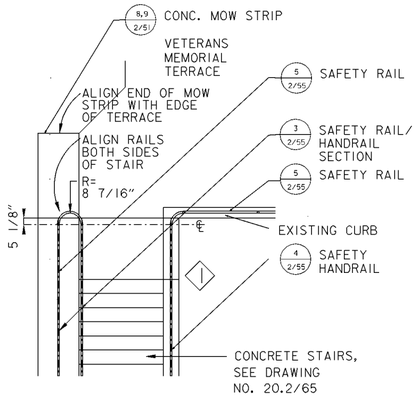


A / 2/55 SS TOP RAIL TO STEEL PICKET FRAME CONNECTION: SECTION 2
SCALE: NONE

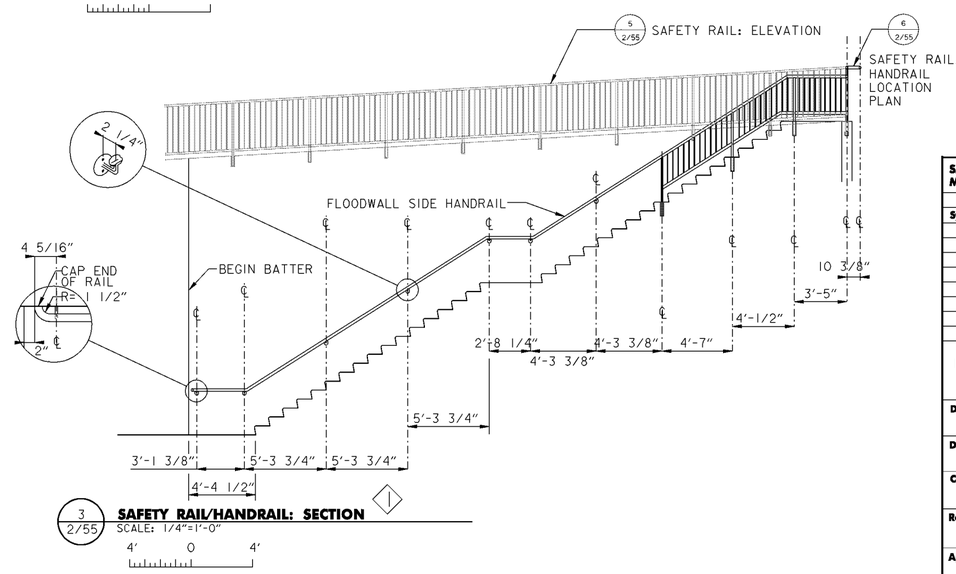
NOTE:
FOR BEGINNING AND ENDING LOCATIONS SEE MATERIALS PLAN, DRAWING NOS. 20.2/38 THROUGH 20.2/40



7 / 2/55 SAFETY RAIL: SECTION
SCALE: 1/2"=1'-0"



6 / 2/55 SAFETY RAIL/HANDRAIL LOCATION PLAN
SCALE: 1/4"=1'-0"



3 / 2/55 SAFETY RAIL/HANDRAIL: SECTION
SCALE: 1/4"=1'-0"

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS-SCHMALENBURGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4-23-98	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: IS /CLB /GMF
Checked by: CLO
Reviewed by: NJD
Approved by:

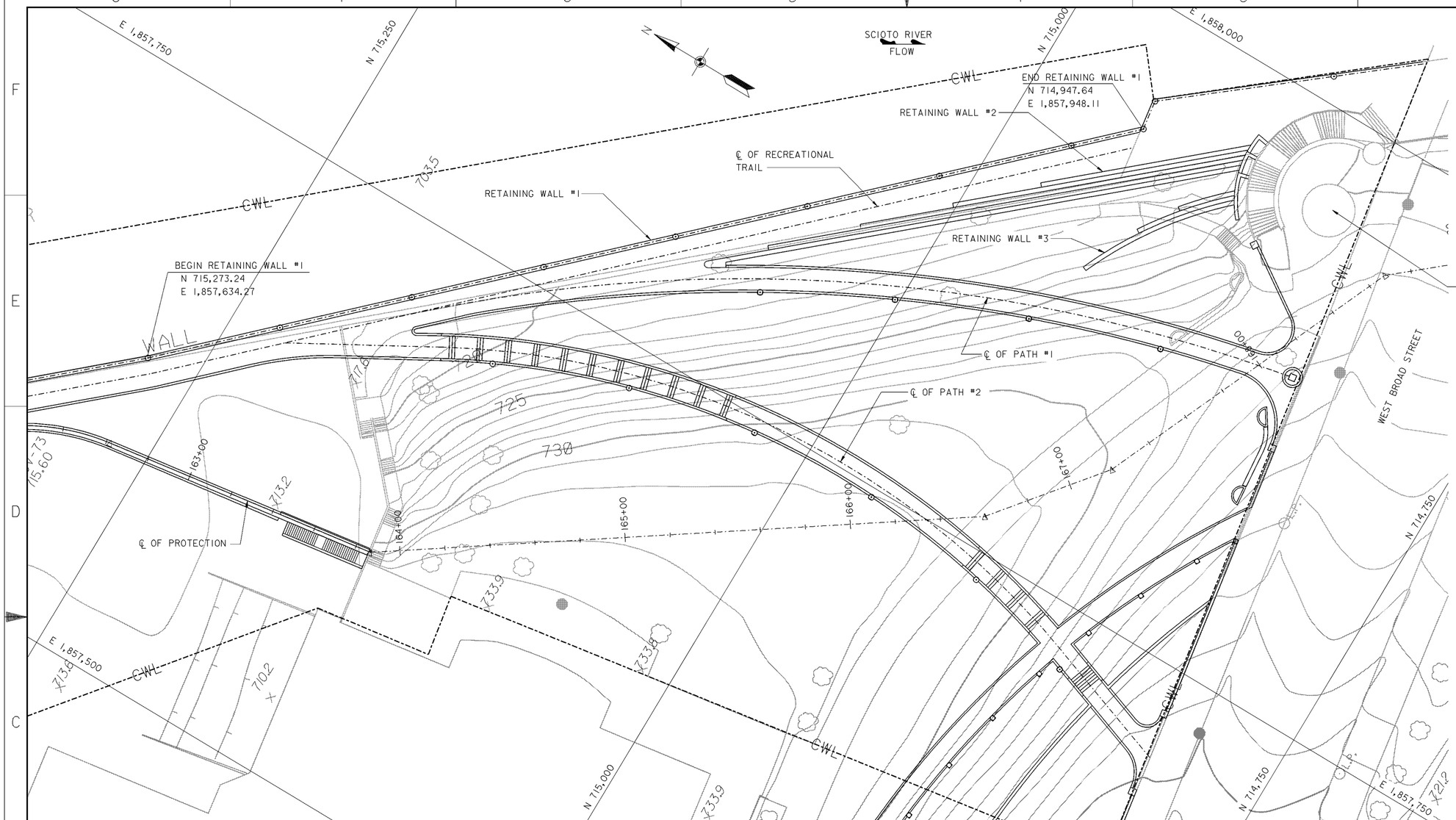
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RAILING DETAILS

Scale: AS NOTED
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/55
FILENAME: PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'

20' 0 20'

NOTES

1. FOR CWL AND R/W SEE DRAWING NOS. 6/1 THRU 6/9.
2. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 THRU 11/10.
3. FOR FINAL GRADING SEE DRAWING NO. 20.2/34.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.OMAN
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
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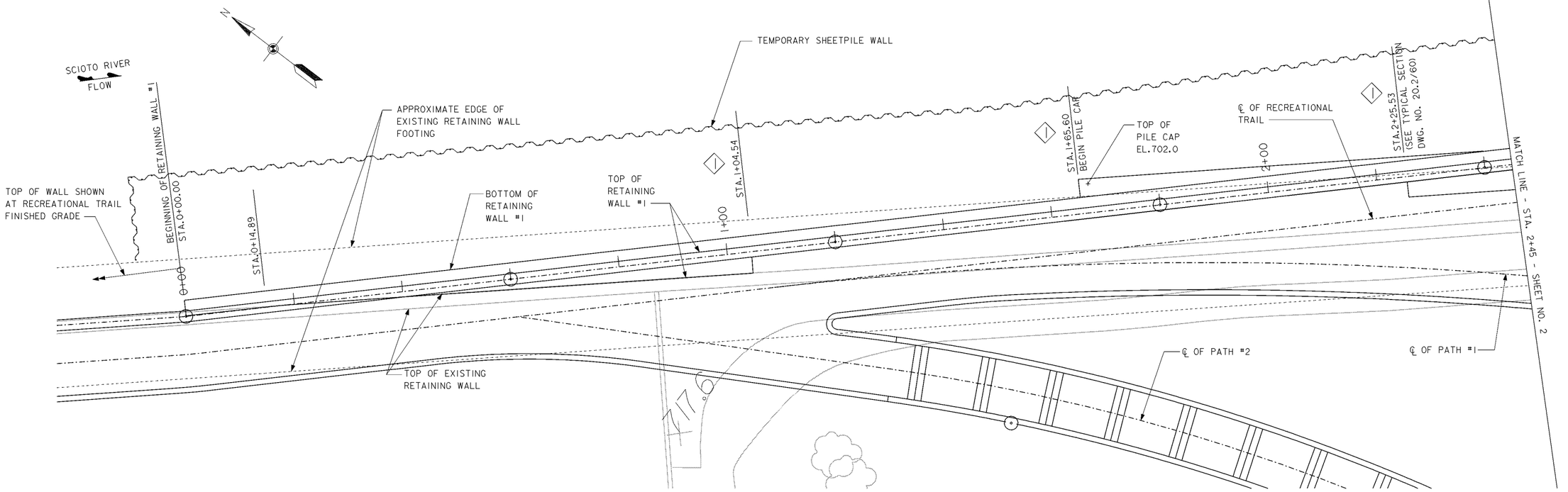
RETAINING WALL PLAN

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/56
FILENAME: 00a8wl01.dgn
PIN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

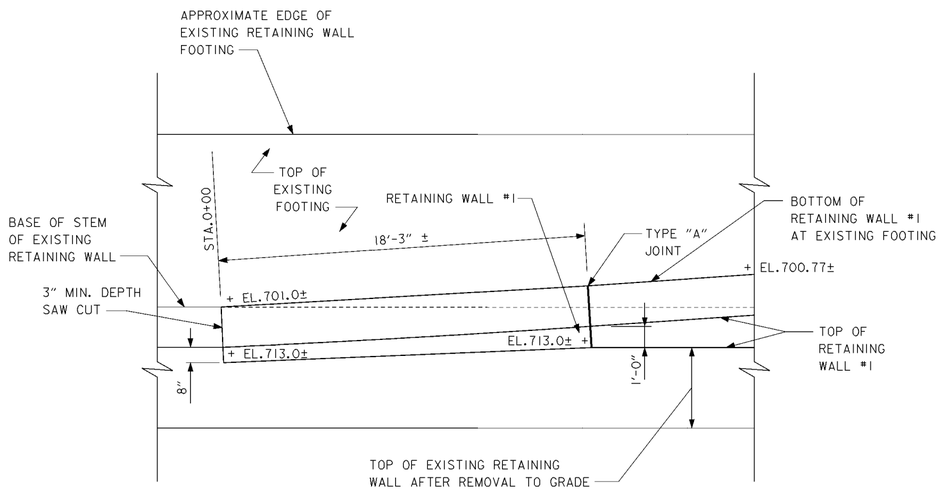
SCALE: 1/8" = 1'-0"
12" 0 5' 10' 15'

PLAN NOTES

1. TOP OF RETAINING WALL #1 SHOWN AT 2'-0" BELOW RECREATIONAL TRAIL FINISHED GRADE, UNLESS NOTED OTHERWISE.
2. BETWEEN STA.0+00.00 AND STA.2+64.63 PROVIDE TYPE "A" JOINTS IN NEW WALL TO ALIGN WITH JOINTS IN EXISTING RETAINING WALL.

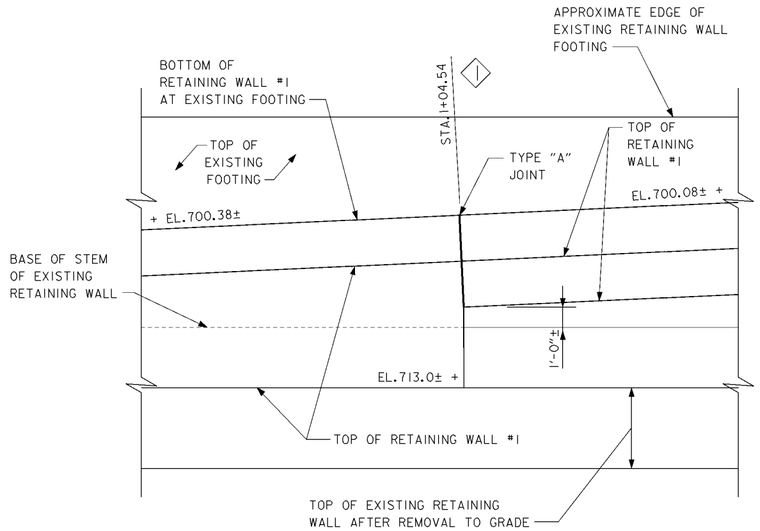
NOTES

1. TOP OF RETAINING WALL #1 VARIES WITH RECREATIONAL TRAIL. FOR FINAL GRADE OF RECREATIONAL TRAIL SEE DRAWING NO. 20.2/34.
2. WHERE NEW WORK IS TO BE JOINED TO EXISTING WORK THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, GRADES AND ELEVATIONS OF ALL EXISTING STRUCTURES.
3. FOR RETAINING WALL #1 SECTIONS SEE DRAWING NOS. 20.2/59 AND 20.2/60.
4. TEMPORARY SHEETPILE WALL TO FACILITATE DEWATERING AND EXCAVATION FOR CONSTRUCTION OF RETAINING WALL #1 AND RECREATIONAL TRAIL. SEE SPECIFICATION SECTION 02222.
5. FOR MONOLITH JOINT TYPES SEE DRAWING NO. 20.1/1.
6. FOR MONOLITH JOINT AND TIE ROD LOCATIONS SEE DRAWING NO. 20.2/58.



PARTIAL PLAN AT STA.0+00

SCALE: 3/8" = 1'-0"
12" 0 2' 4' 6'



PARTIAL PLAN AT STA.1+04.54 ◇

SCALE: 3/8" = 1'-0"
12" 0 2' 4' 6'

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: R.OMAN
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
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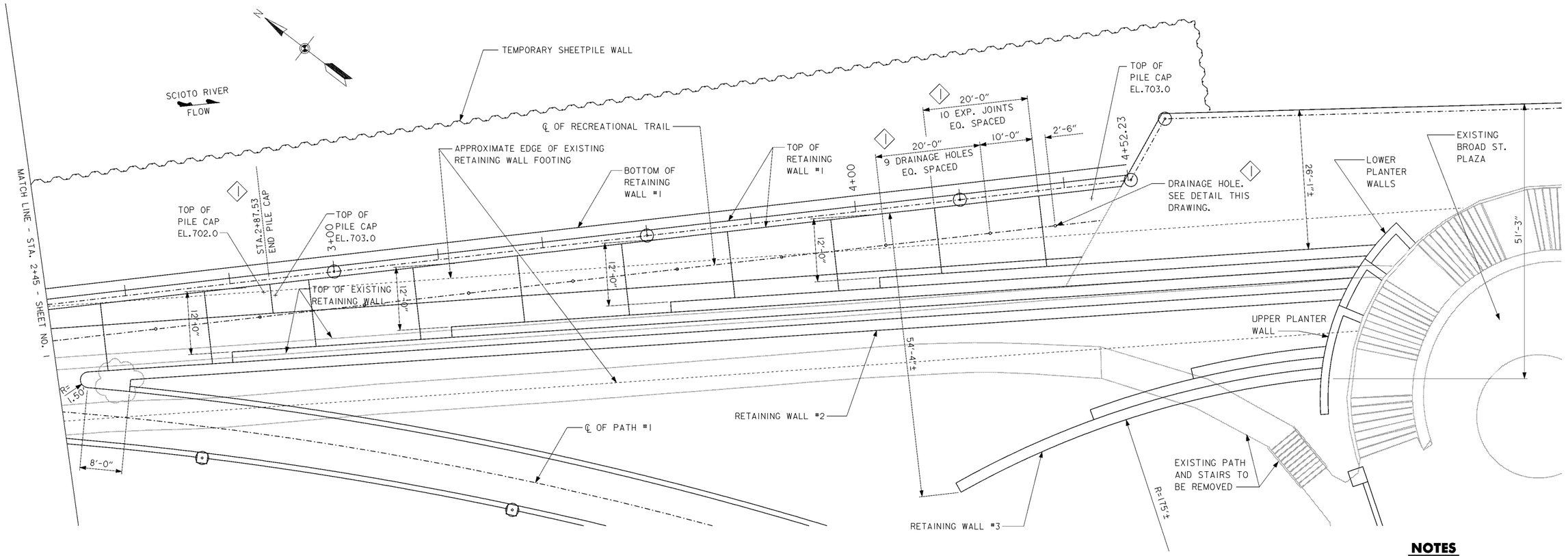
RETAINING WALL NO.1 PLAN (1 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/57
FILENAME: a0w9w101.dgn
PEN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED



NOTES

1. TOP OF RETAINING WALL #1 VARIES WITH RECREATIONAL TRAIL. FOR FINAL GRADE OF RECREATIONAL TRAIL SEE DRAWING NO. 20.2/34.
2. WHERE NEW WORK IS TO BE JOINED TO EXISTING WORK THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, GRADES AND ELEVATIONS OF ALL EXISTING STRUCTURES.
3. TEMPORARY SHEETPILE WALL TO FACILITATE DEWATERING AND EXCAVATION FOR CONSTRUCTION OF RETAINING WALL #1 AND RECREATIONAL TRAIL. SEE SPECIFICATION SECTION 02222.
4. FOR TIE-BACK DETAILS SEE DRAWING NO. 20.2/64.
5. FOR JOINT DETAILS SEE DRAWING NO. 20.1/1.

◇1

RETAINING WALL #1 MONOLITH JOINT & TIE ROD LOCATIONS		
STATION	JOINT TYPE	TIE ROD
0+00.00	◇1	-
0+14.89	A	-
0+44.70	CONTROL	-
0+74.72	CONTROL	-
1+04.54	A	-
1+09.02	-	-
1+19.47	-	-
1+29.91	-	-
1+34.39	B	-
1+39.07	-	REQ'D
1+50.00	-	REQ'D
1+60.92	-	REQ'D
1+65.60	A	-
1+69.94	-	REQ'D
1+80.07	-	REQ'D
1+90.19	-	REQ'D
1+94.53	B	-
1+99.18	-	REQ'D
2+10.03	-	REQ'D
2+20.88	-	REQ'D
2+25.53	A	-
2+29.87	-	REQ'D
2+40.00	-	REQ'D
2+50.13	-	REQ'D
2+54.47	B	-

◇1 BETWEEN STA. 0+00.00 AND STA. 2+64.63 PROVIDE TYPE "A" JOINTS IN NEW WALL TO ALIGN WITH JOINTS IN EXISTING RETAINING WALL.

◇1

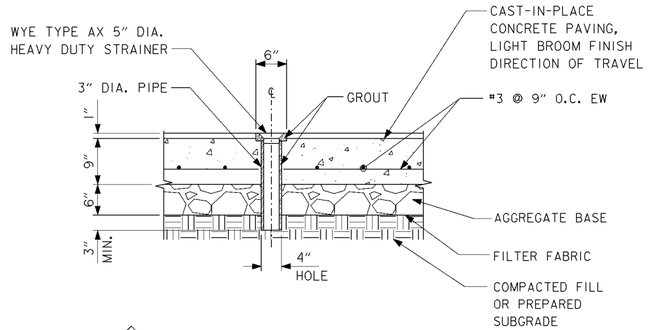
RETAINING WALL #1 MONOLITH JOINT & TIE ROD LOCATIONS		
STATION	JOINT TYPE	TIE ROD
2+59.43	-	REQ'D
2+71.00	-	REQ'D
2+82.57	-	REQ'D
2+87.53	A	-
2+92.49	-	REQ'D
3+04.07	-	REQ'D
3+15.64	-	REQ'D
3+20.60	B	-
3+25.56	-	REQ'D
3+37.14	-	REQ'D
3+48.71	-	REQ'D
3+53.67	B	-
3+58.63	-	REQ'D
3+70.20	-	REQ'D
3+81.77	-	REQ'D
3+86.73	A	-
3+91.69	-	REQ'D
4+03.27	-	REQ'D
4+14.84	-	REQ'D
4+19.80	B	-
4+24.66	-	-
4+36.02	-	-
4+47.37	-	-
4+52.23	A	-

◇1 NOTE:
BETWEEN STA.0+00 AND STA.2+46.71 PROVIDE TYPE "A" JOINTS IN NEW WALL TO ALIGN WITH JOINTS IN EXISTING RETAINING WALL.

PLAN

SCALE: 1/8" = 1'-0"
12" 0 5' 10' 15'

NOTE: TOP OF RETAINING WALL #1 SHOWN AT 2'-0" BELOW RECREATIONAL TRAIL FINISHED GRADE.



◇1 **DRAINAGE HOLE SECTION**

SCALE: 1" = 1'
1' 0 1'

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

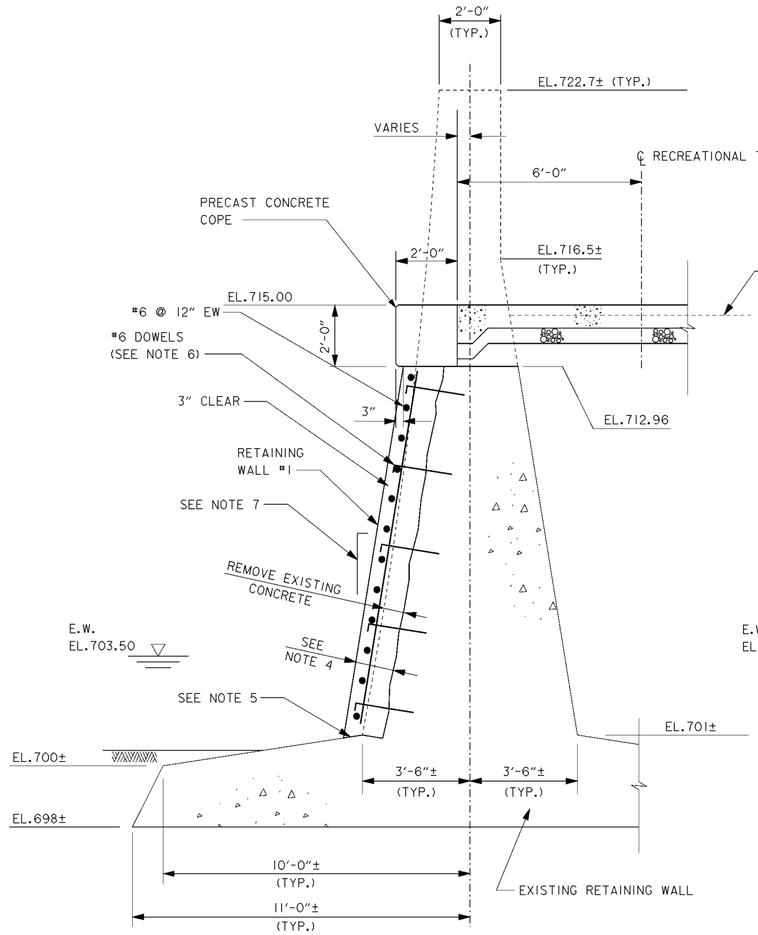
Designed by: R.OMAN
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RETAINING WALL NO.1 PLAN (2 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/58
FILENAME: a0w9w102.dgn
PEN TABLE:
Sheet 2 of 2

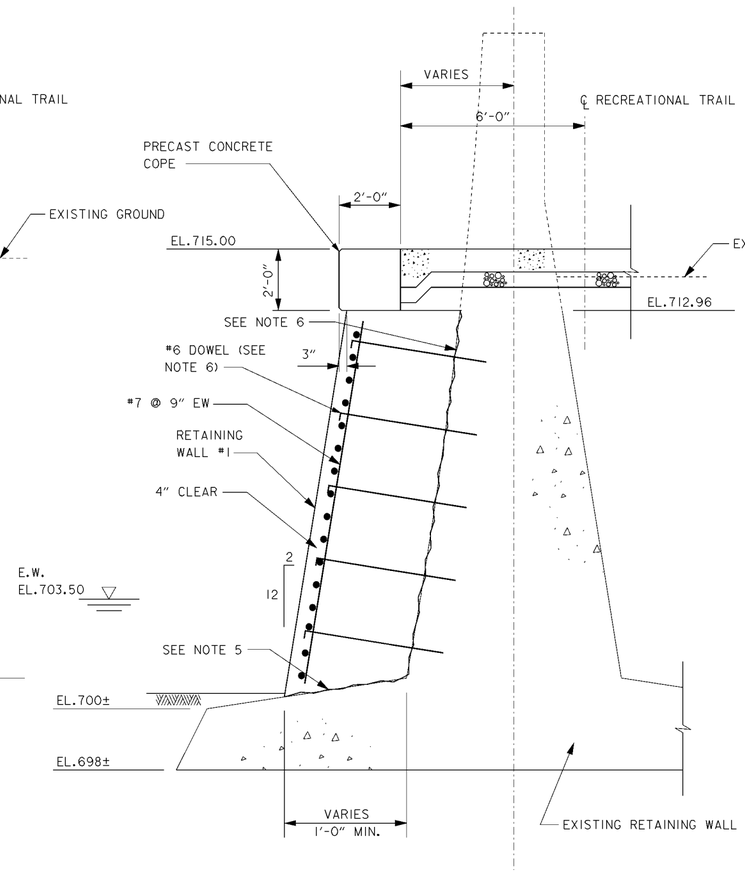
WORK AS CONSTRUCTED



TYPICAL SECTION

RETAINING WALL #1
STA.0+00.00 TO STA.0+14.89 ◇1

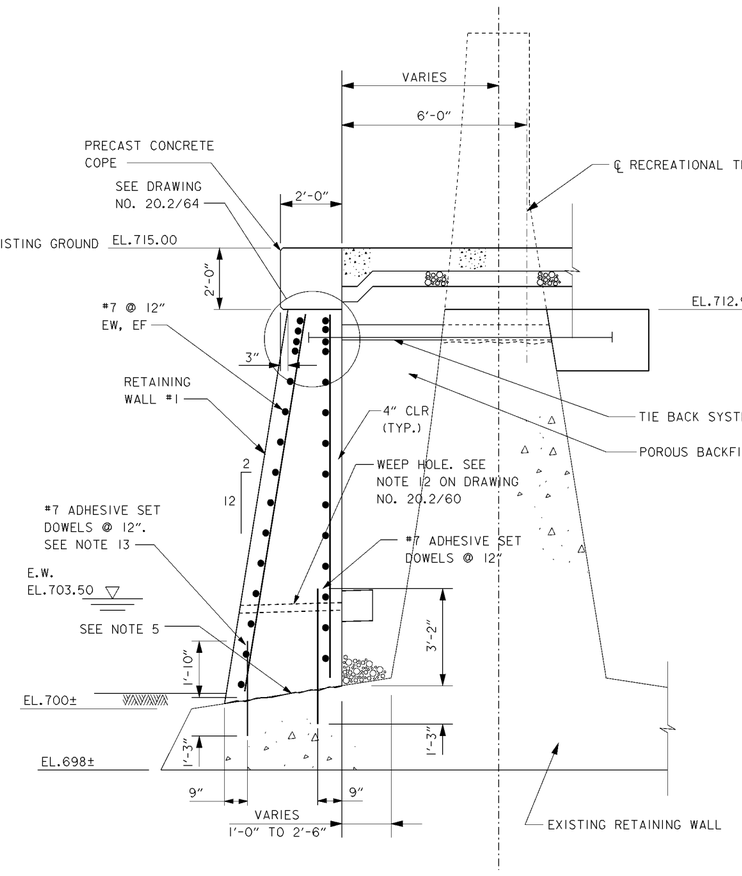
SCALE: 1/2" = 1'-0"



TYPICAL SECTION

RETAINING WALL #1
STA.0+14.89 TO STA.1+04.54 ◇1

SCALE: 1/2" = 1'-0"



TYPICAL SECTION

RETAINING WALL #1
STA.1+04.54 TO STA.1+65.07
(REINF. TYP. UNLESS NOTED OTHERWISE) ◇1

SCALE: 1/2" = 1'-0"

NOTES

1. FOR EXISTING RETAINING WALL DEMOLITION PLAN SEE DRAWING NOS.20.2/29 THRU 20.2/31.
2. TOP OF RETAINING WALL #1 VARIES WITH RECREATIONAL TRAIL. FOR FINAL GRADE OF RECREATIONAL TRAIL SEE DRAWING NO. 20.2/34.
3. WHERE NEW WORK IS TO BE JOINED TO EXISTING WORK THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, GRADES AND ELEVATIONS OF ALL EXISTING STRUCTURES.
4. NEW CONCRETE PLACED ON EXISTING RETAINING WALL SHALL HAVE A MINIMUM THICKNESS OF 8".
5. ABRASIVE BLAST OR OTHERWISE EXPOSE COARSE AGGREGATE.
6. PROVIDE 5 ROWS OF DOWELS. TOP ROW 12" BELOW TOP OF EXISTING WALL TO REMAIN, BOTTOM ROW 12" ABOVE EXISTING FOOTING AND EQUALLY SPACED BETWEEN. SPACE BARS 30" O.C. MAXIMUM HORIZONTAL. ADHESIVE SET DOWELS 13" MIN. INTO EXISTING CONCRETE. SEE NOTE 13 BELOW.
7. PROVIDE SLOPE AT STA.0+00.00 TO MATCH EXISTING WALL SLOPE AT STA.0+08.00 2H:12V AND PROVIDE A UNIFORM TRANSITION OF SLOPE OF FACE BETWEEN THESE STATIONS.
8. PROVIDE EXPANSION JOINT IN RETAINING WALL WITHIN 12" OF JOINTS OF EXISTING RETAINING WALL AND AT THE ENDS OF EACH TYPICAL SECTION AND WHERE SHOWN ON PLAN VIEWS.
9. PROVIDE CONTROL JOINTS AT 24'-0" OR LESS O.C. AND AS SHOWN IN PLAN VIEWS.
10. EITHER HORIZONTAL OR VERTICAL LAYER OF REINFORCEMENT MAY BE THE EXTERIOR LAYER.
11. FOR PRECAST CONCRETE COPE SEE DRAWING NO. 20.2/64.
12. FOR TIE-BACK SYSTEM SEE DRAWING NO. 20.2/64.
13. ADHESIVE FOR SETTING REINFORCING BARS IN EXISTING CONCRETE SHALL BE FURNISHED IN SIDE BY SIDE CONTAINERS THAT SEPARATE THE TWO ADHESIVE COMPONENTS UNTIL THEY ARE THOROUGHLY BLENDED BY THE DISPENSING NOZZLE. IT SHALL HAVE BEEN DEMONSTRATED THAT THE ADHESIVE CAN DEVELOP A BOND STRENGTH IN 2000 PSI CONCRETE OF:
    #6 BARS - 35 KIPS
    #7 BARS - 50 KIPS
    THE HOLES FOR THE BARS SHALL BE MADE AND CLEANED, AND THE ADHESIVE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
14. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.
15. BACKFILL SHALL NOT BE PLACED UNTIL TIE BACK SYSTEM IS IN PLACE.

Revisions			
Symbol	Descriptions	Date	Approved
◇1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: L.LINZELL
Reviewed by:
Approved by:

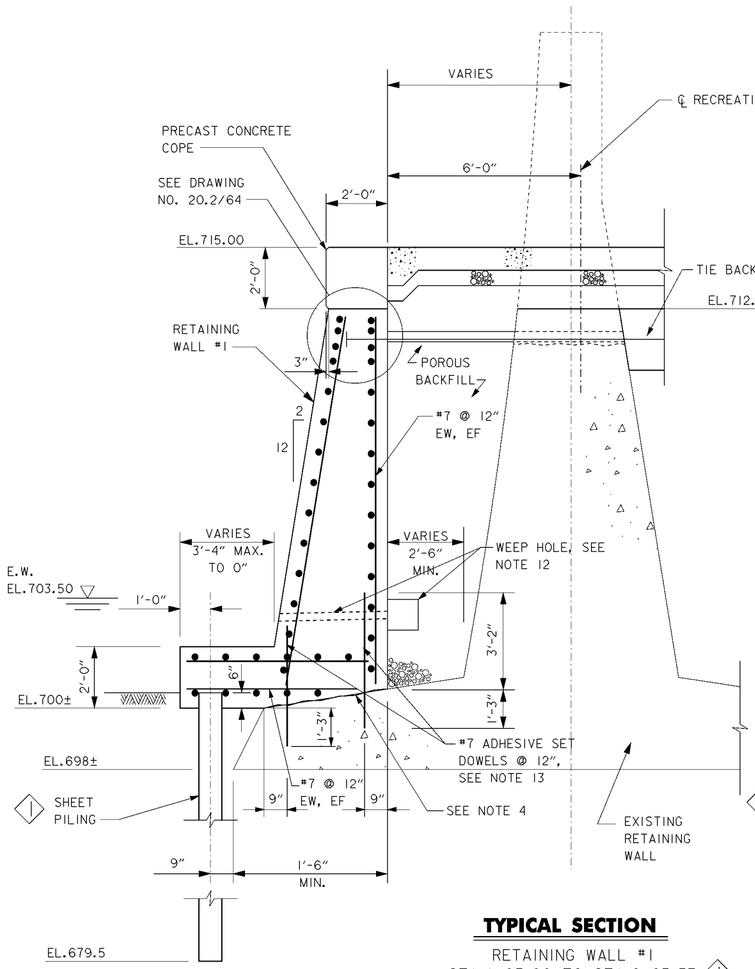
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

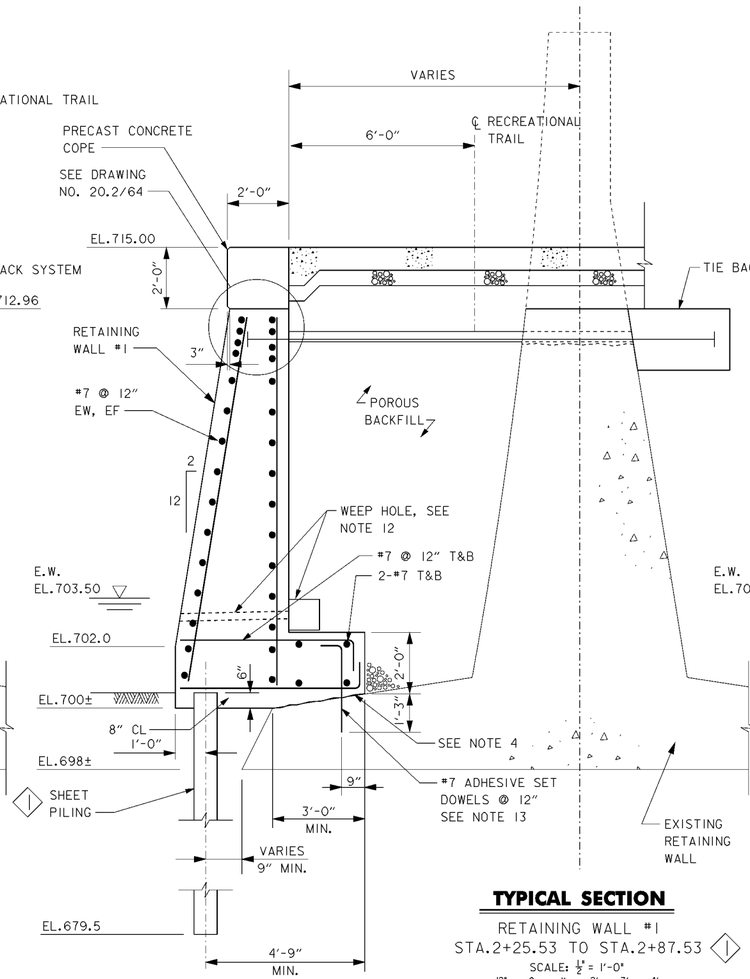
RETAINING WALL NO.1 SECTIONS (1 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/59
FILENAME: a0w9sc01.dgn
PEN TABLE:
Sheet 1 of 2

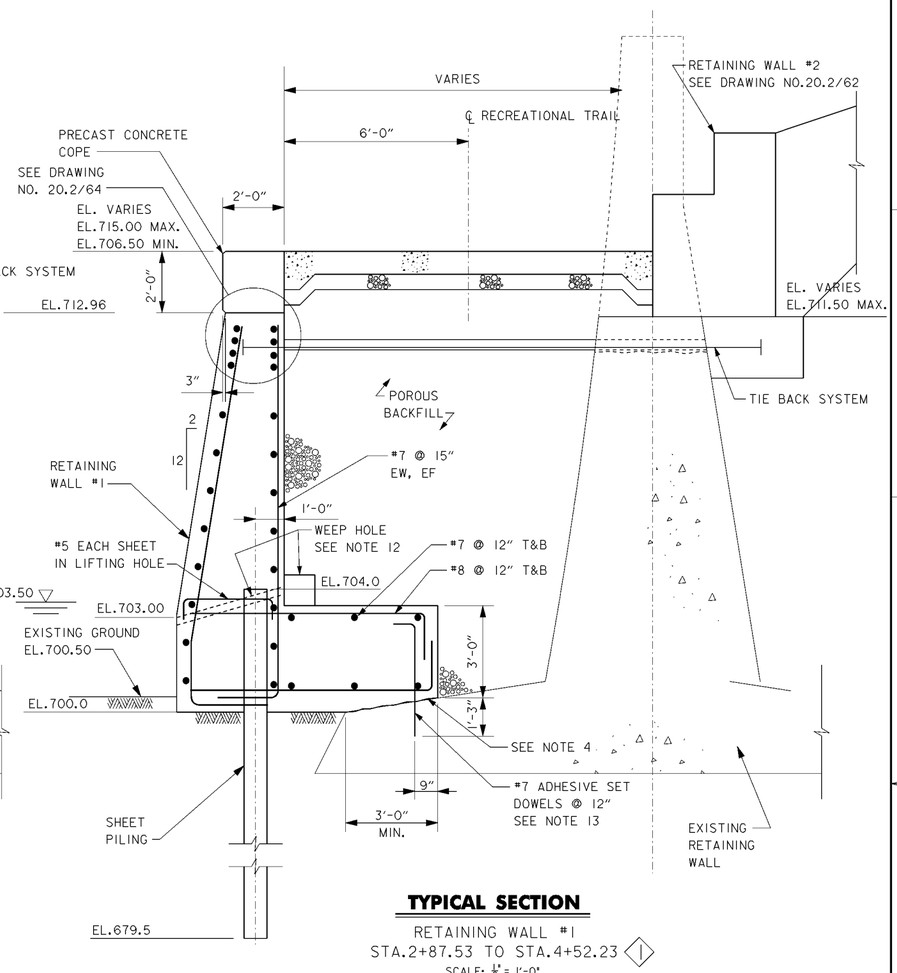
WORK AS CONSTRUCTED



TYPICAL SECTION
RETAINING WALL #1
STA.1+65.60 TO STA.2+25.53 ⟨1⟩
SCALE: 1/2" = 1'-0"



TYPICAL SECTION
RETAINING WALL #1
STA.2+25.53 TO STA.2+87.53 ⟨1⟩
SCALE: 1/2" = 1'-0"



TYPICAL SECTION
RETAINING WALL #1
STA.2+87.53 TO STA.4+52.23 ⟨1⟩
SCALE: 1/2" = 1'-0"

NOTES

1. FOR EXISTING RETAINING WALL DEMOLITION PLAN SEE DRAWING NOS.20.2/29 THRU 20.2/31.
2. TOP OF RETAINING WALL #1 VARIES WITH RECREATIONAL TRAIL. FOR FINAL GRADE OF RECREATIONAL TRAIL SEE DRAWING NO.20.2/34
3. WHERE NEW WORK IS TO BE JOINED TO EXISTING WORK THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, GRADES AND ELEVATIONS OF ALL EXISTING STRUCTURES.
4. ABRASIVE BLAST OR OTHERWISE EXPOSE COARSE AGGREGATE.
5. PROVIDE EXPANSION JOINT IN RETAINING WALL WITHIN 12" OF JOINTS OF EXISTING RETAINING WALL AND AT THE ENDS OF EACH TYPICAL SECTION AND WHERE SHOWN ON PLAN VIEWS.
6. PROVIDE CONTROL JOINTS AT 24'-0" OR LESS O.C. AND AS SHOWN IN PLAN VIEWS.
7. EITHER HORIZONTAL OR VERTICAL LAYER OF REINFORCEMENT MAY BE THE EXTERIOR LAYER.
8. PROVIDE 4" CLEAR COVER ON ALL REINFORCING.
9. FOR RETAINING WALLS #2 AND #3 SEE DRAWING NOS. 20.2/61 THRU 20.2/63.

NOTES

10. FOR PRECAST CONCRETE COPE SEE DRAWING NO.20.2/64.
11. FOR TIE BACK SYSTEM SEE DRAWING NO.20.2/64.
12. PROVIDE 3" DIA. WEEP HOLES AT 10'-0" ON CENTER AT ELEVATION 703.0. PROVIDE BAGGED AGGREGATE AGAINST THE BACK OF THE WALL CENTERED ON EACH WEEP HOLE. BAGGED AGGREGATE SHALL CONSIST OF 2 CUBIC FEET OF POROUS BACK FILL ENCLOSED IN A FILTER FABRIC ENVELOPE. FILTER FABRIC (CMSC ITEM NO. 712.09, TYPE A) ENVELOPE SHALL HAVE SEAMS OVERLAPPED 12" OR SUITABLY SEWN.
13. FOR SETTING REINFORCING BARS INTO EXISTING CONCRETE SEE NOTE 13 ON DRAWING NO.20.2/59.
14. POROUS BACKFILL SHALL NOT BE PLACED UNTIL TIE BACK SYSTEM IS IN PLACE.
15. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.

Revisions			
Symbol	Descriptions	Date	Approved
⟨1⟩	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: L.LINZELL
Reviewed by:
Approved by:

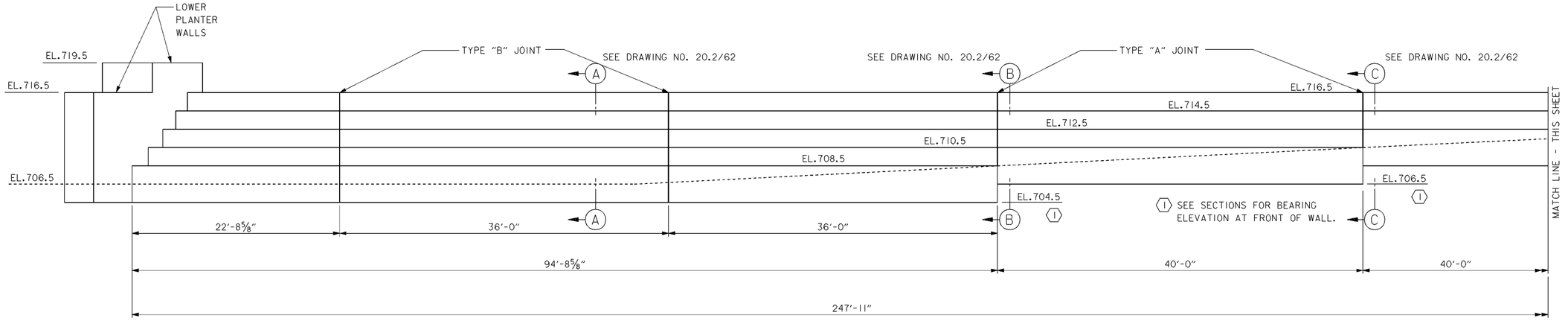
US Army Corps of Engineers

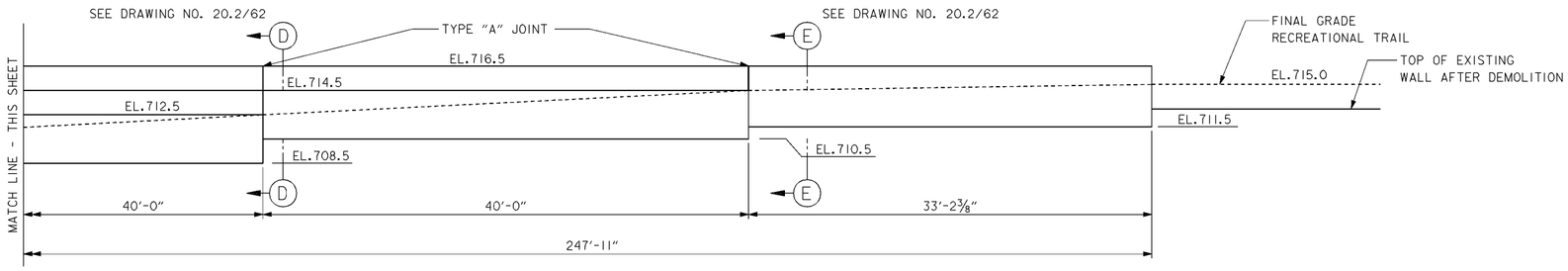
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RETAINING WALL NO.1 SECTIONS (2 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/60
FILENAME: PEN TABLE: a0v9sc02.dgn
Sheet 2 of 2

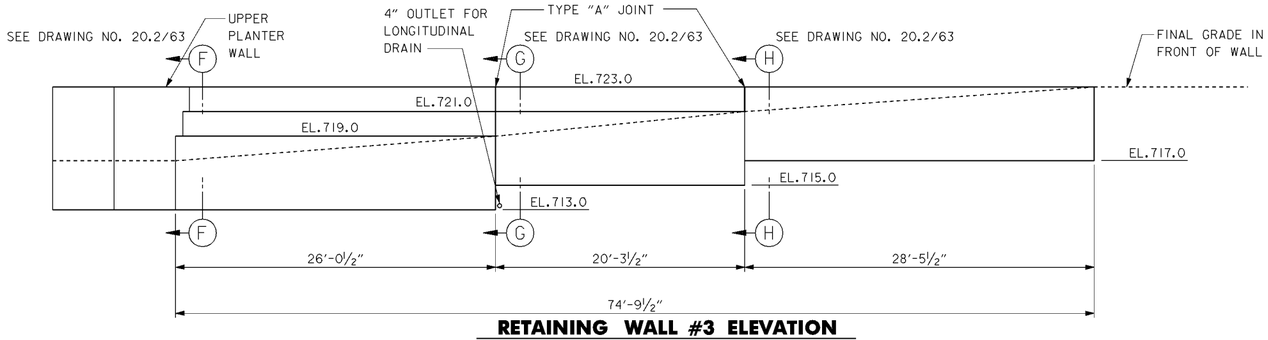
WORK AS CONSTRUCTED





RETAINING WALL #2 ELEVATIONS

SCALE: 1" = 5'



RETAINING WALL #3 ELEVATION

SCALE: 1" = 5'

NOTES

1. FOR VETERANS MEMORIAL RETAINING WALL NOS. 2 AND 3 SECTIONS SEE DRAWING NOS. 20.2/62 AND 20.2/63.
2. FOR TYPE "A" AND TYPE "B" JOINT DETAILS SEE DRAWING NO. 20.1/1.
3. REINFORCING SHOWN ON DRAWING NOS. 20.2/62 AND 20.2/63.
4. FOR LONGITUDINAL DRAIN SEE DRAWING NO.20.2/63.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: L.LINZELL
Reviewed by:
Approved by:

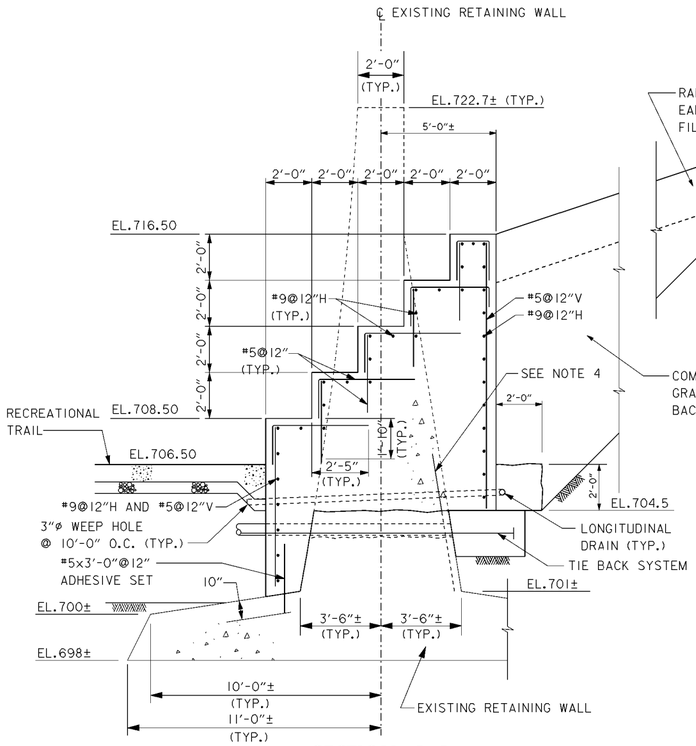
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

RETAINING WALL NOS. 2 AND 3 ELEVATIONS

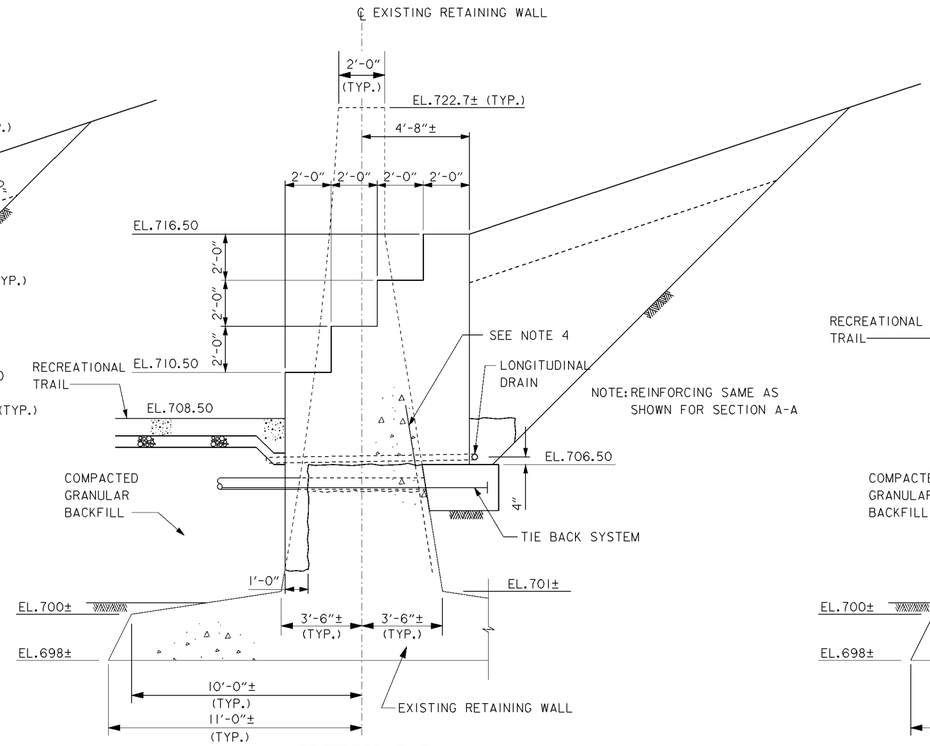
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/61
FILENAME: 00a8wl02.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



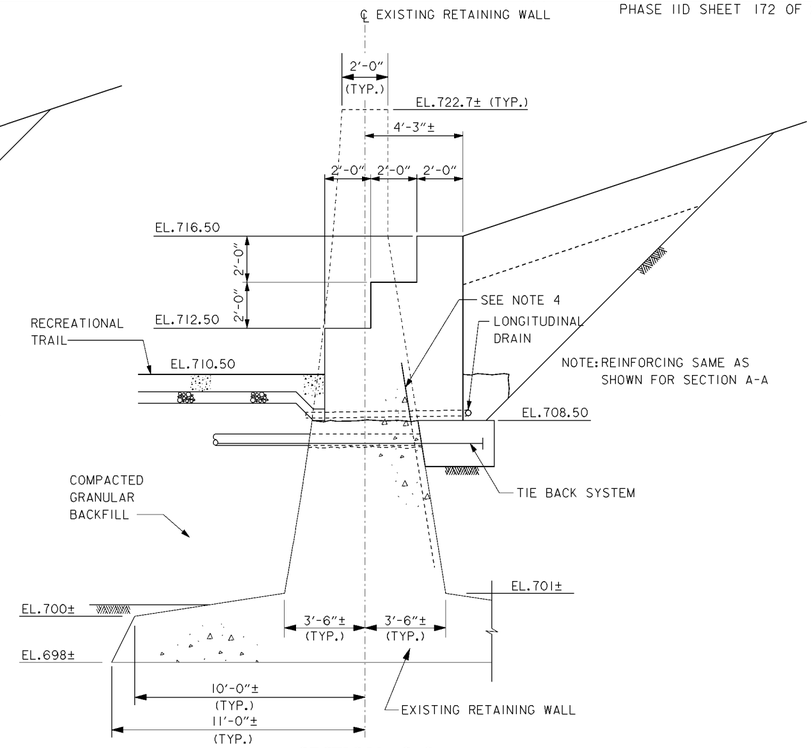
SECTION A–A

SCALE: 3/8" = 1'-0"



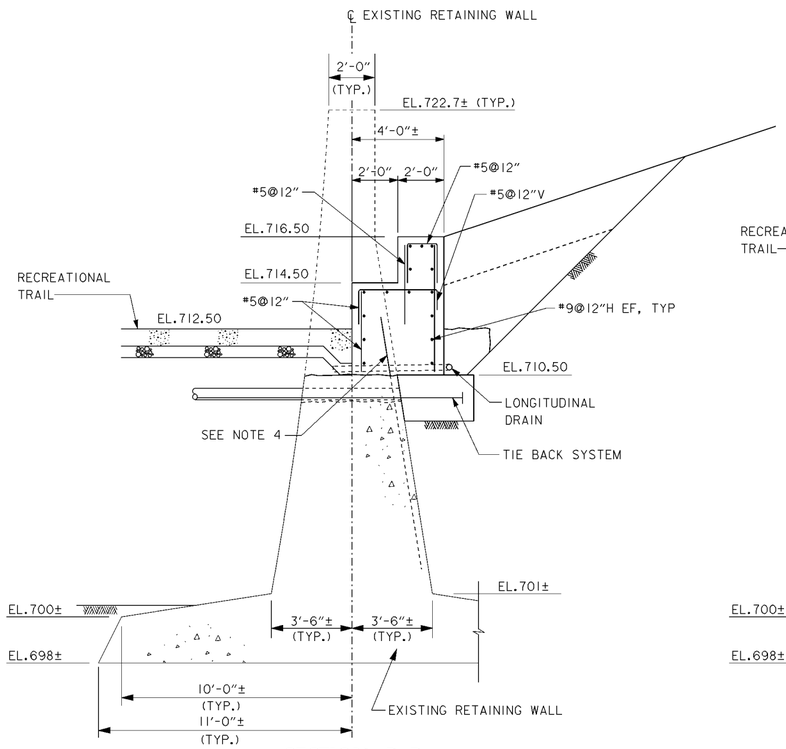
SECTION B–B

SCALE: 3/8" = 1'-0"



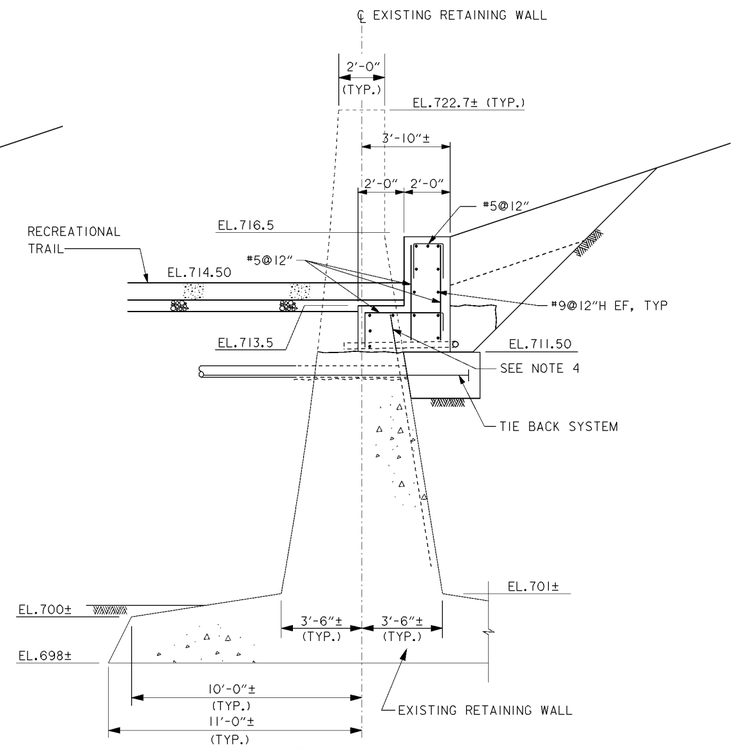
SECTION C–C

SCALE: 3/8" = 1'-0"



SECTION D–D

SCALE: 3/8" = 1'-0"



SECTION E–E

SCALE: 3/8" = 1'-0"

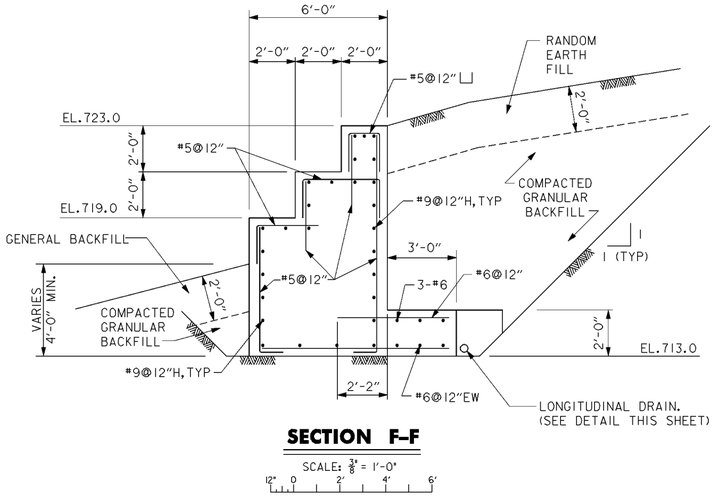
NOTES

1. FOR EXISTING RETAINING WALL DEMOLITION PLAN SEE DRAWING NOS.20.2/29 THRU 20.2/31.
2. WHERE NEW WORK IS TO BE JOINED TO EXISTING WORK THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, GRADES AND ELEVATIONS OF ALL EXISTING STRUCTURES.
3. ABRASIVE BLAST OR OTHERWISE EXPOSE COARSE AGGREGATE.
4. SAVE VERTICAL REINFORCING IN EXISTING RETAINING WALL. TYPICALLY SAVE 30" OF REINFORCING, IN SECTION E-E SAVE 20".
5. ELEVATION VIEWS AND JOINT REQUIREMENT SHOWN ON DRAWING NO.20.2/61.
6. ALL REINFORCING SHALL BE 4" CLEAR OF CONCRETE SURFACE.
7. LONGITUDINAL DRAIN DETAIL SHOWN ON DRAWING NO.20.2/63.
8. PROVIDE 1" CHAMFER ON EXPOSED CORNERS.
9. LOCATION OF RETAINING WALL SHOWN ON DRAWING NOS.20.2/58 AND 20.2/67.
10. FOR TIE BACK SYSTEM SEE DRAWING NO.20.2/64.
11. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO.20.2/9.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: T.MULLINS	**RETAINING WALL NO.2 SECTIONS**
Checked by: L.LINZELL	
Reviewed by:	Scale: AS SHOWN
Approved by:	Date: MARCH 1998
	Drawing Code: 16-PWC-10-
	Sheet reference number: 20.2/62
	FILENAME: 00v9sc03.dgn PEN TABLE:
	Sheet 1 of 1

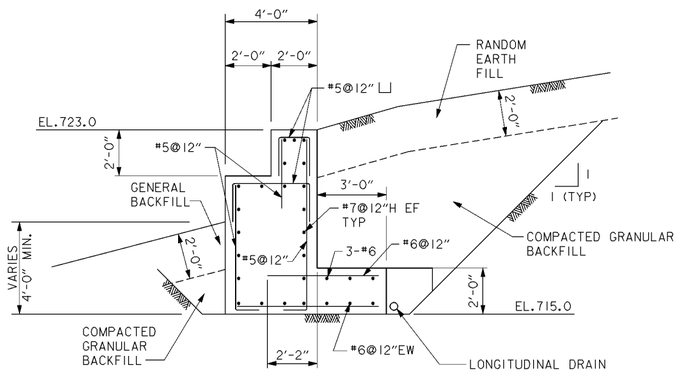
WORK AS CONSTRUCTED



SECTION F–F

SCALE: 3/8" = 1'-0"

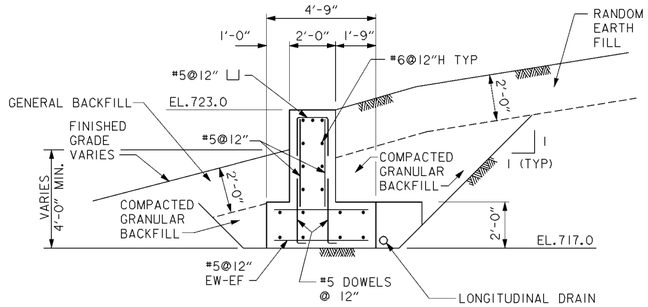
NOTE: REINFORCING SAME AS SHOWN ON SECTION A-A DRAWING NO.20.2/62 EXCEPT AS SHOWN.



SECTION G–G

SCALE: 3/8" = 1'-0"

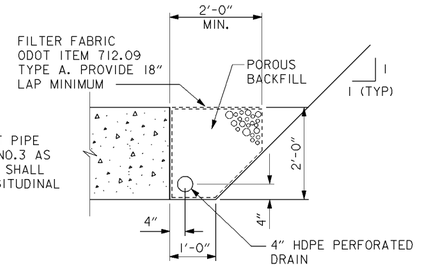
NOTE: REINFORCING SAME AS SHOWN ON SECTION A-A DRAWING NO.20.2/62 EXCEPT AS SHOWN.



SECTION H–H

SCALE: 3/8" = 1'-0"

NOTE: PROVIDE 4" DIAMETER NON-PERFORATED OUTLET PIPE FOR LONGITUDINAL DRAIN AT RETAINING WALL NO.3 AS SHOWN ON DRAWING NO. 20.2/61. OUTLET PIPE SHALL DRAIN POSITIVELY AND BE CONNECTED TO LONGITUDINAL DRAIN FOR RETAINING WALL NO.2.



LONGITUDINAL DRAIN

SCALE: 3/4" = 1'-0"

NOTES

1. TOP SOIL NOT SHOWN.
2. ELEVATION VIEWS AND JOINT REQUIREMENTS SHOWN ON DRAWING NO.20.2/61.
3. LOCATION OF RETAINING WALL SHOWN ON DRAWING NOS.20.2/58 AND 20.2/67
4. ALL REINFORCING SHALL BE 4" CLEAR OF CONCRETE SURFACE.
5. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: L.LINZELL
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
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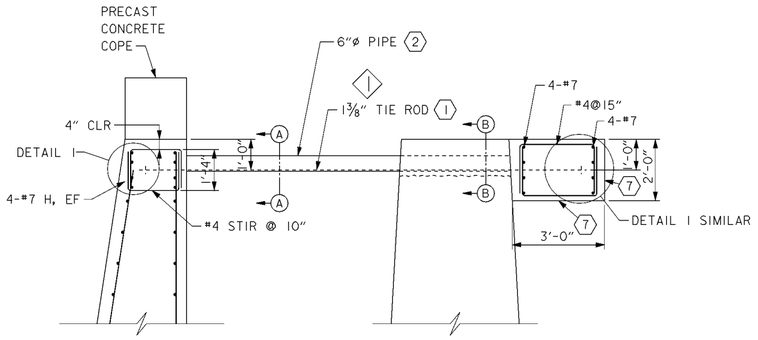
RETAINING WALL NO.3 SECTIONS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/63
FILENAME: 00a8w103.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



TIE BACK SYSTEM

SCALE: 1½" = 1'-0"

12" 0 1' 2' 3' 4'

NOTES

1. TIE BACK SYSTEM SHALL BE IN PLACE BEFORE BACKFILL IS PLACED.
2. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.

CODED NOTES FOR TIE BACK SYSTEM

(1) TIE ROD SHALL BE 1 3/8-INCH DIAMETER THREADED GRADED 150 KIPS BAR CONFORMING TO ASTM A722-88. PROVIDE THREE TIE RODS PER WALL MONOLITH. LOCATE AS SHOWN ON DRAWING 20.2/58.

(2) 6-INCH DIAMETER PERFORATED PVC PIPE. LOCATE SO THAT TIE ROD IS AT INVERT OF PIPE AND WITH PERFORATIONS AT THE BOTTOM OF THE PIPE.

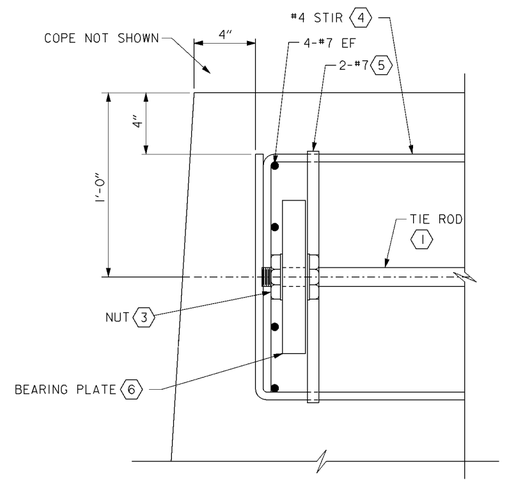
(3) PROVIDE HEX NUT CAPABLE OF DEVELOPING THE ULTIMATE STRENGTH OF THE TIE ROD ON EACH SIDE OF BEARING PLATE. PROVIDE WASHERS UNDER NUTS.

(4) PROVIDE A STIRRUP 3-INCH EITHER SIDE OF TIE ROD.

(5) TIE A NO. 7 X 1'-6" TO EACH OF THE ABOVE STIRRUPS TO HOLD BEARING PLATE IN PLACE DURING CONCRETE PLACEMENT.

(6) 10" X 10" X 1½" BEARING PLATE MADE OF ASTM A36 STEEL. TIE BEARING PLATE TO ABOVE NO. 7 BARS TO HOLD PLATE IN PLACE DURING CONCRETE PLACEMENT.

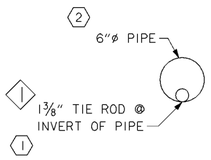
(7) PLACE CONCRETE NEAT AGAINST SOIL. PROVIDE 4-INCH CLEAR CONCRETE COVER ON REINFORCING.



DETAIL 1

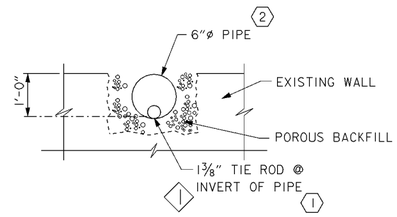
SCALE: 3" = 1'-0"

0 3" 6" 12"



SECTION A–A

SCALE: NONE



SECTION B–B

SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved
(1)	REVISED AS CONSTRUCTED	7/02	P.O.C.

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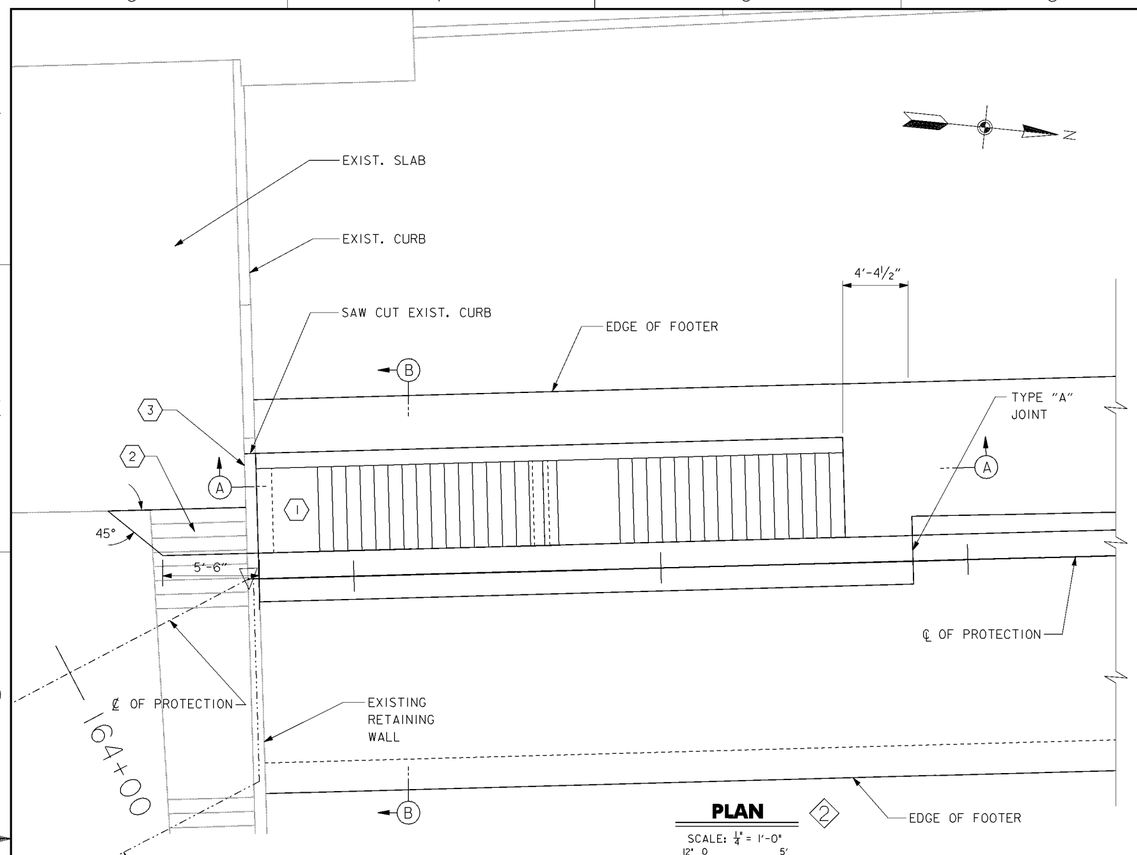
MISC STRUCTURAL DETAILS

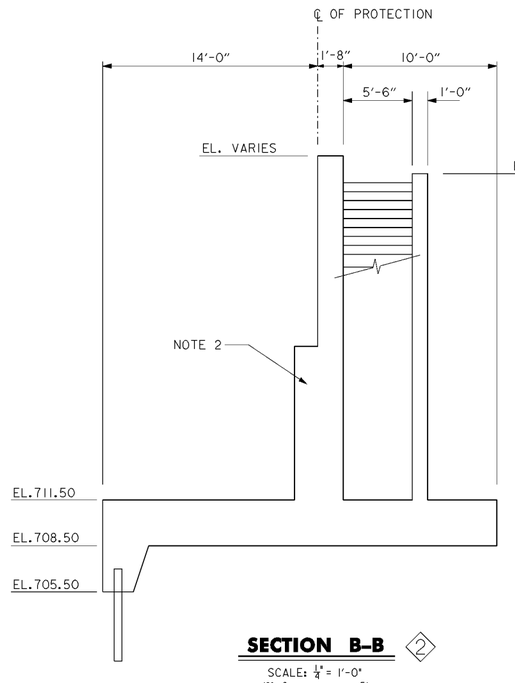
Designed by: L.LINZELL	Scale: AS SHOWN	Sheet reference number: 20.2/64	FILENAME: a0sddt04.dgn PEN TABLE:
Drawn by: A.PUMMELL	Date: MARCH 1998		
Checked by: D.TRAINA	Drawing Code: 16-PWC-10-		Sheet 1 of 1
Reviewed by:			
Approved by:			

WORK AS CONSTRUCTED

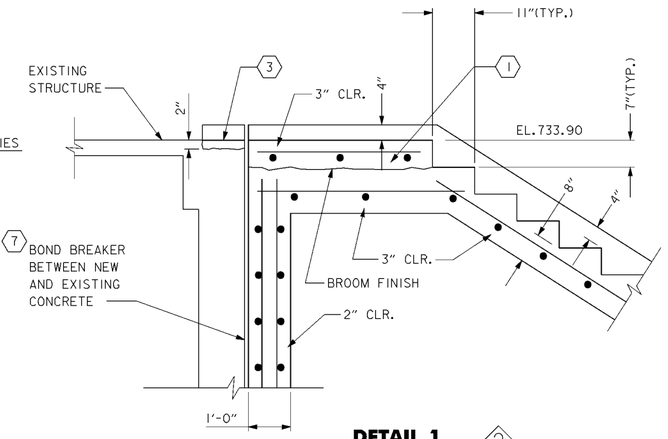


PLAN ◇2
SCALE: 1/4" = 1'-0"

SECTION A–A ◇2
SCALE: 3/8" = 1'-0"



SECTION B–B ◇2
SCALE: 1/4" = 1'-0"



DETAIL 1 ◇2
SCALE: 3/4" = 1'-0"

CODED NOTES

1. THE TOP RISER AND CONCRETE AT TOP OF STAIRS SHALL BE PLACED NO SOONER THAN 3 MONTHS AFTER THE BACKFILL HAS BEEN PLACED BEHIND THE WALL ADJACENT TO THE STAIRWAY. THE TOP RISER SHALL BE 7". SLOPE TOP OF CONCRETE UNIFORMLY FROM RISER TO TOP OF ADJACENT EXISTING CONCRETE SO THAT THE WALKING SURFACE IS FLAT. THE CONCRETE SHALL BE REINFORCED WITH #5@12" O.C. PLACED 3" CLEAR OF TOP OF THE CONCRETE.
2. 7" THICK CONCRETE SLAB REINFORCED WITH #5@12" O.C. EACH WAY AND PLACED ON A 4" AGGREGATE BASE. THE SLAB SHALL BE PLACED NO SOONER THAN 3 MONTHS AFTER THE BACKFILL BENEATH THE SLAB HAS BEEN PLACED.
3. REMOVE TOP OF EXISTING CONCRETE CURB TO 2" BELOW TOP OF THE ADJACENT EXISTING SLAB. PLACE REPAIR CONCRETE TO FILL WHERE EXISTING WAS REMOVED. FINISH FLUSH WITH ADJACENT SLABS AND STAIR TOP RISER. THE REPAIR CONCRETE SHALL CONFORM TO SPECIFICATION SECTION 03300 EXCEPT AS FOLLOWS:
   F'C = 5000 PSI
   MAXIMUM WATER TO CEMENT RATIO = 0.35
   MAXIMUM NOMINAL AGGREGATE SIZE = #8
   FINISH AS SPECIFIED FOR EXTERIOR CONCRETE SIDEWALKS
4. PROVIDE MATCHING #5 DOWELS @ 12" O.C. OUT OF CONCRETE WALL.
5. PROVIDE HORIZONTAL #5@12" O.C. CORNER BARS. INSIDE CORNER BARS SHALL HAVE HOOK AT OUTSIDE FACE OF WALL.
6. ◇2
7. BOND BREAKER SHALL BE ONE LAYER 15# ROOFING FELT CONFORMING TO ASTM D 226-95 OR D 227-95 TYPE I. ATTACH BOND BREAKER TO EXISTING CONCRETE AND TO SHORING USING ROOFING CEMENT CONFORMING TO ASTM D 5643-94.
8. ◇2 PROVIDE GALVANIZED STEEL SCREEN ANIMAL GUARD AT WEEPHOLES.

NOTES

1. JOINT DETAILS SHOWN ON DRAWING NO. 20.1/1. WATERSTOP NOT REQUIRED IN FOOTING.
2. REINFORCING IS SHOWN IN SECTION D-D ON DRAWING NO. 20.1/4.
3. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO.20.2/9.
4. FOR ELEVATIONS SEE DRAWING NO.16/3.
5. FOR VETERANS MEMORIAL SHEETPILE CUTOFF WALL SEE DRAWING NO. 20.1/10.
6. FOR TYPICAL FOOTING CONSTRUCTION JOINT SEE DRAWING NO.20.1/9. ◇2

Revisions			
Symbol	Descriptions	Date	Approved
◇2	REV. BY CHANGE REQUEST MC007	3/99	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: T.MULLINS
Checked by: D.TRAINA
Reviewed by:
Approved by:

US Army Corps of Engineers

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COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
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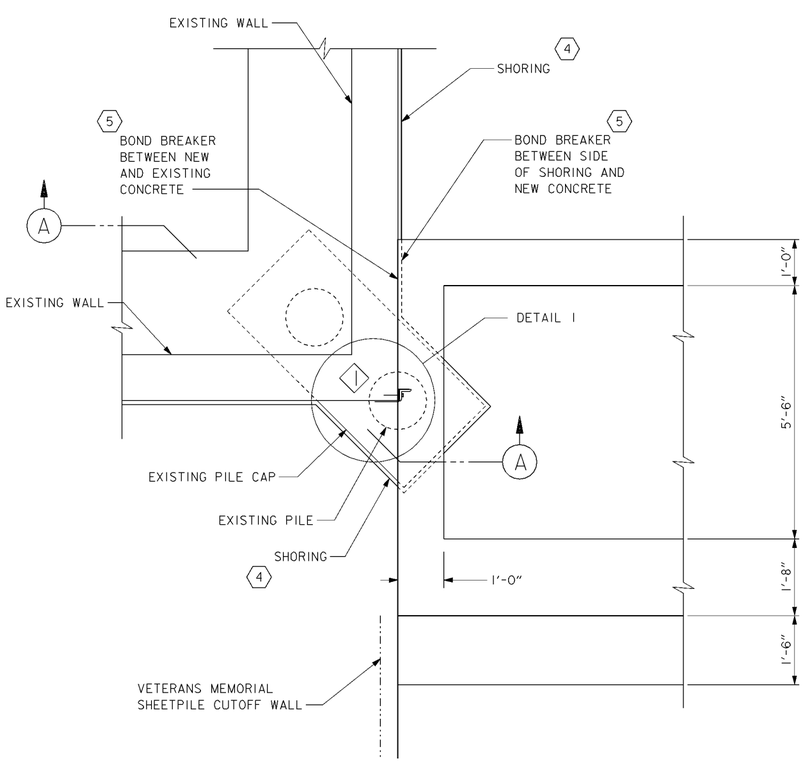
VETERANS MEMORIAL STAIRWAY PLAN

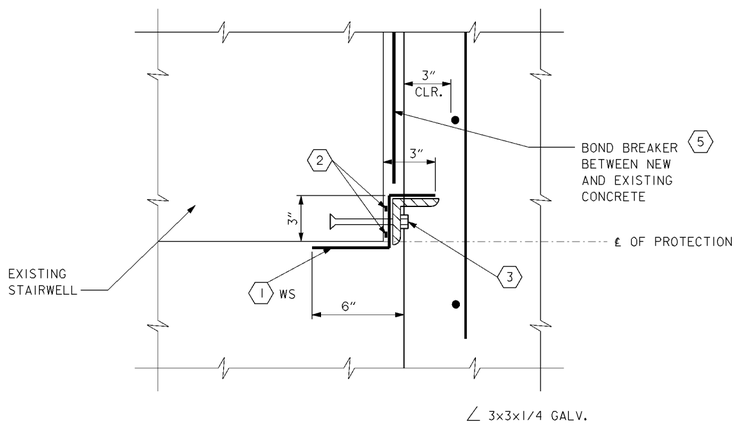
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/65
FILENAME: 01stpa01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



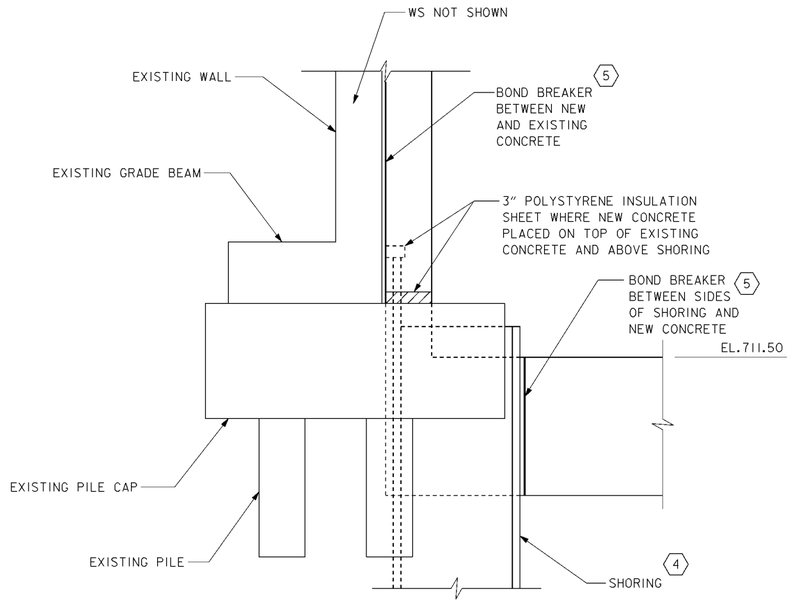
PLAN – STAIRWAY AT EXISTING WALL

SCALE: 3/4" = 1'-0"
12" 6" 0 1' 2'



PLAN – DETAIL 1 ⟨1⟩

SCALE: 3" = 1'-0"
0 3" 6" 12"



SECTION A–A

SCALE: 3/4" = 1'-0"
12" 6" 0 1' 2'

CODED NOTES

⟨1⟩ 3/8"X12" NEOPRENE RUBBER SHEET WS CONTINUOUS FROM TOP OF EXISTING PILE CAP TO 12" BELOW TOP OF NEW WALL. NEOPRENE SHALL HAVE DUROMETER HARDNESS SHORE A 55-65 AND SHALL MEET ASTM D-2000-86E, TYPE BC.

⟨2⟩ TWO BEADS OF CAULK SHALL BE APPLIED TO THE EXISTING CONCRETE BEHIND THE ANGLE. THE NEOPRENE SHALL BE PLACED BEFORE THE CAULK SETS. THE BEADS SHALL EXTEND CONTINUOUS FOR THE FULL HEIGHT OF THE NEOPRENE. THE CAULK SHALL BE SILICONIZED ACRYLIC MEETING ASTM C-834-95. REMAINDER OF WS SHALL NOT BE BONDED TO EXISTING CONCRETE.

⟨3⟩ 1/2" DIA. STAINLESS STEEL EXPANSION BOLTS AT 18" O.C. BOLTS SHALL HAVE 3 1/2" EMBEDMENT INTO THE CONCRETE.

⟨4⟩ CONTRACTOR SHALL PROVIDE SHORING TO PROTECT EXISTING STRUCTURE AND PREVENT MOVEMENT OF SOIL UNDER EXISTING STRUCTURE DURING CONSTRUCTION OF STAIRWAY. SHORING SHALL REMAIN IN PLACE.

⟨5⟩ BOND BREAKER SHALL BE ONE LAYER OF 15# ROOFING FELT CONFORMING TO ASTM D 226-95 OR D 227-95 TYPE I. ATTACH BOND BREAKER TO EXISTING CONCRETE AND TO SHORING USING ROOFING CEMENT CONFORMING TO ASTM D 5643-94.

Revisions			
Symbol	Descriptions	Date	Approved
⟨1⟩	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: L.LINZELL
Drawn by: T.MULLINS
Checked by: D.TRAINA
Reviewed by:
Approved by:

US Army Corps of Engineers

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STAIRWAY SECTIONS AND DETAILS

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/66
FILENAME: a0stdt01.dgn
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

EXISTING STAIRS TO BE DEMOLISHED

EXISTING STAIRWAY

RETAINING WALL #3

EXISTING ASPHALT PATH TO BE DEMOLISHED

EXISTING BROAD ST. PLAZA

A

B

B

C

+ EL.723.0

+ EL.721.0

+ EL.719.0

EL.723.00

UPPER PLANTER WALL

RETAINING WALL #2

TOP OF EXISTING RETAINING WALL

+ EL.716.50

+ EL.714.50

+ EL.712.50

+ EL.710.50

+ EL.708.50

EL.719.75

EL.716.50

+ EL.706.50±

℄ OF RECREATIONAL TRAIL

90° (TYP.)

C

LOWER PLANTER WALLS

A

EXISTING SKIRT WALL

EXISTING PLAZA RETAINING WALL

RETAINING WALL #1

CONCRETE BOLLARDS (TYP.)

BROAD ST. PLAZA – STAIRWAY PLAN

SCALE: 1/4" = 1'-0"
12" 0 5'

NOTES

1. EXISTING STAIRWAY AND PLAZA BACKFILLED WITH COMPACTED GRANULAR MATERIAL. CONTRACTOR SHALL PROVIDE SHORING AND PROTECT EXISTING FILL MATERIALS AND STRUCTURES DURING CONSTRUCTION OF RETAINING WALLS AND SITE GRADING AT VETERANS MEMORIAL LAWN AREA. SHORING MAY REMAIN IN PLACE AND BE CUTOFF 1'-0" BELOW FINISHED GRADES.
2. FOR VETERANS MEMORIAL LAWN AREA SEE DRAWING NOS. 20.2/56 THRU 20.2/63.
3. WHERE NEW WORK IS TO BE JOINED TO EXISTING WORK THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, GRADES AND ELEVATIONS OF ALL EXISTING STRUCTURES.
4. LOCATIONS OF RETAINING WALLS #2 AND #3 ARE SHOWN ON DRAWING NO. 20.2/58.
5. SECTIONS A-A, B-B AND C-C ARE SHOWN ON DRAWING NO. 20.2/68.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: L.LINZELL
Reviewed by:
Approved by:

US Army Corps of Engineers

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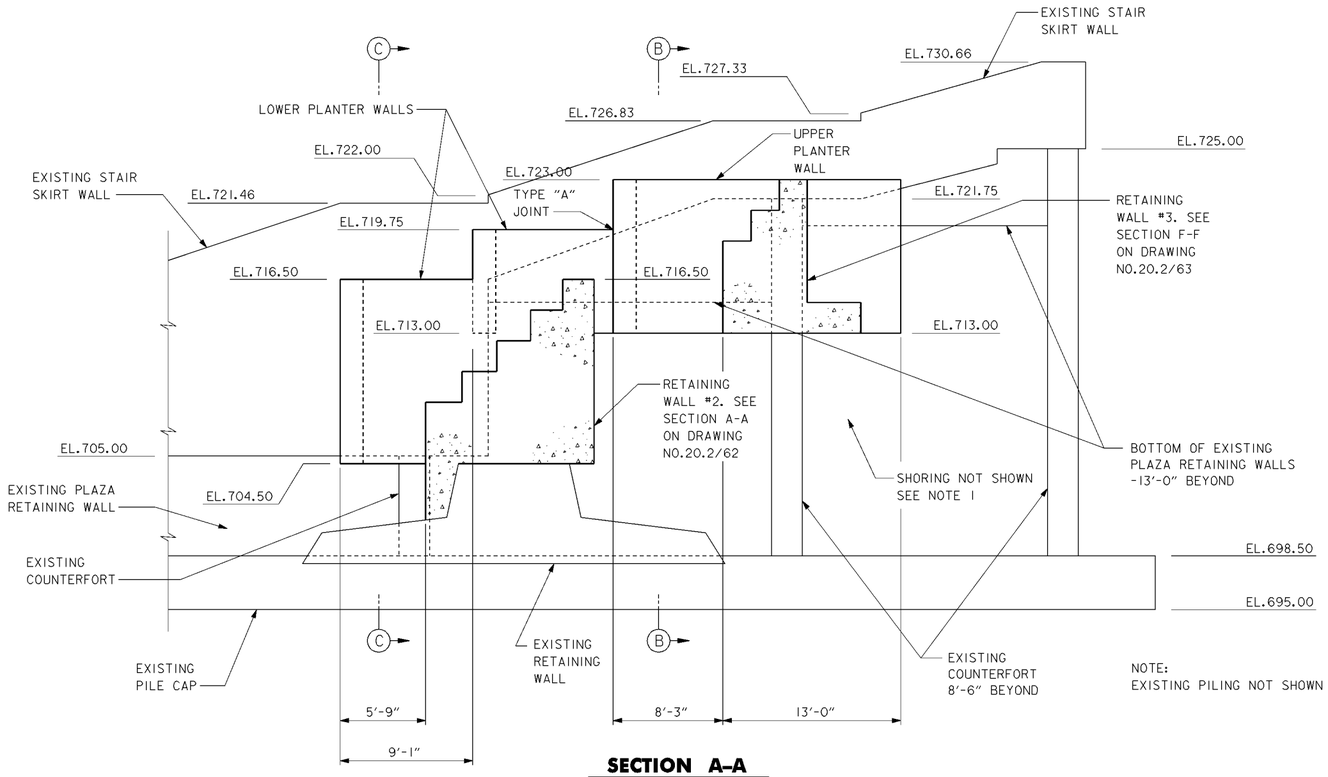
BROAD STREET PLAZA PLAN

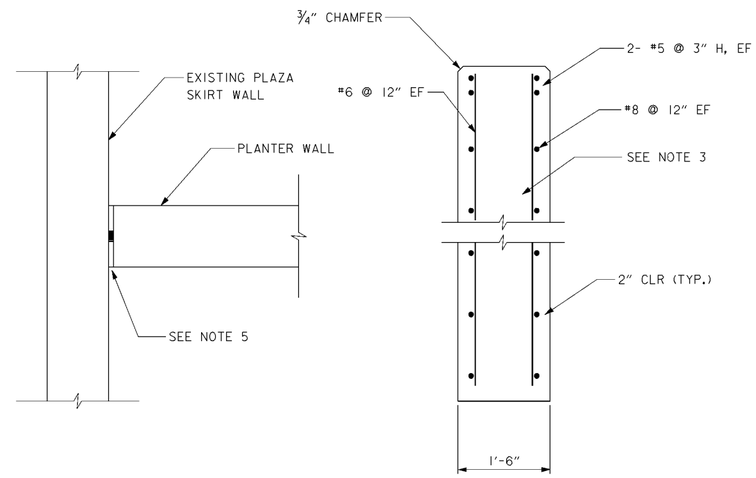
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/67
FILENAME: 00brpa01.dgn
PEN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED



SECTION A-A

SCALE: 1/4" = 1'-0"



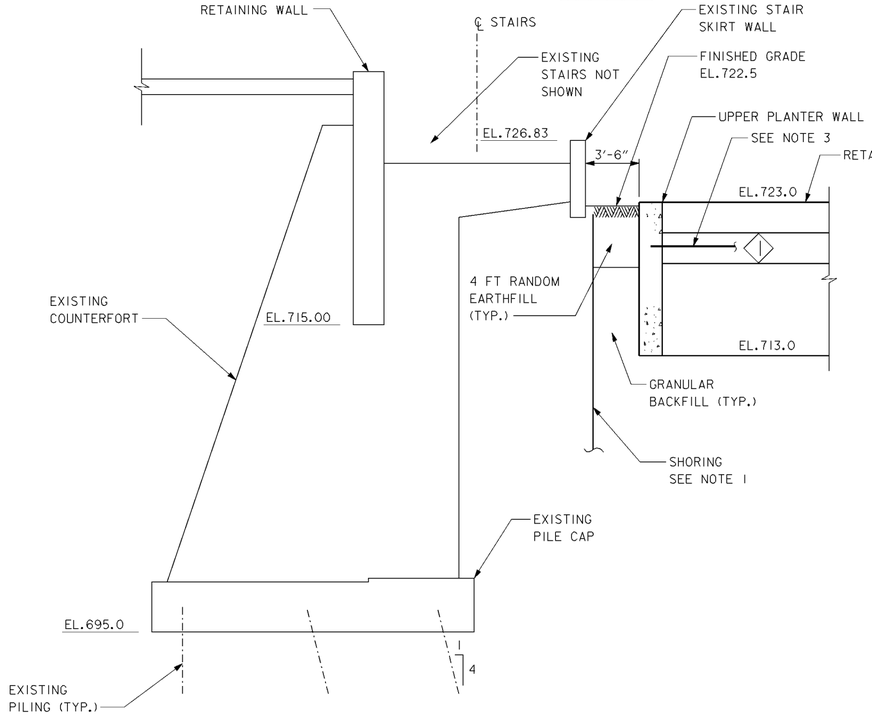
PLAN SECTION

TYPICAL PLANTER WALL

SCALE: 1" = 1'-0"

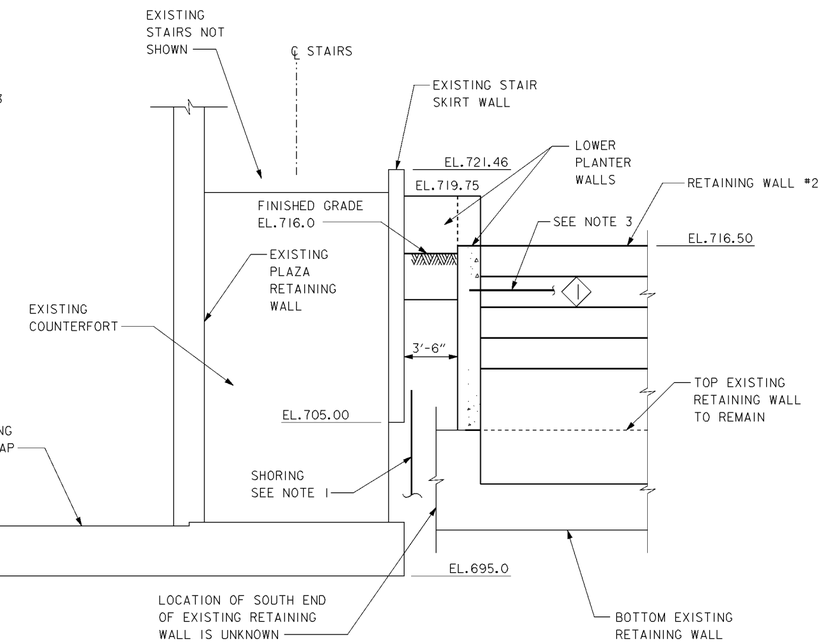
NOTES

1. EXISTING STAIRWAY AND PLAZA BACKFILLED WITH COMPACTED GRANULAR MATERIAL. CONTRACTOR SHALL PROVIDE SHORING AND PROTECT EXISTING FILL MATERIALS AND STRUCTURES DURING CONSTRUCTION OF RETAINING WALLS AND SITE GRADING AT VETERANS MEMORIAL LAWN AREA. SHORING MAY REMAIN IN PLACE AND BE CUTOFF A MINIMUM OF 1'-0" BELOW FINISHED GRADES AND A MINIMUM OF 6" BELOW BOTTOM OF PLANTER WALLS.
2. WHERE NEW WORK IS TO BE JOINED TO EXISTING WORK THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, GRADES AND ELEVATIONS OF ALL EXISTING STRUCTURES.
3. RETAINING WALL #2 AND #3 HORIZONTAL REINFORCING SHALL BE EMBEDDED 15" INTO PLANTER WALL AND EPOXIED IN PLACE.
4. SEE DRAWING NO. 20.2/66 FOR PLAN VIEWS.
5. PROVIDE 1/2" EJFS ON EACH SIDE OF BITUMEN WATERSTOP. BITUMEN WATERSTOP SHALL BE 1/2" × 3/4" PREFORMED BITUMEN MATERIAL BOND TO EXISTING WALL AT CENTER OF PLANTER WALL IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.2/9.



SECTION B-B

SCALE: 1/4" = 1'-0"



NOTE: PILING AND FOOTING REINFORCING NOT SHOWN

SECTION C-C

SCALE: 1/4" = 1'-0"

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: L.LINZELL
Reviewed by:
Approved by:

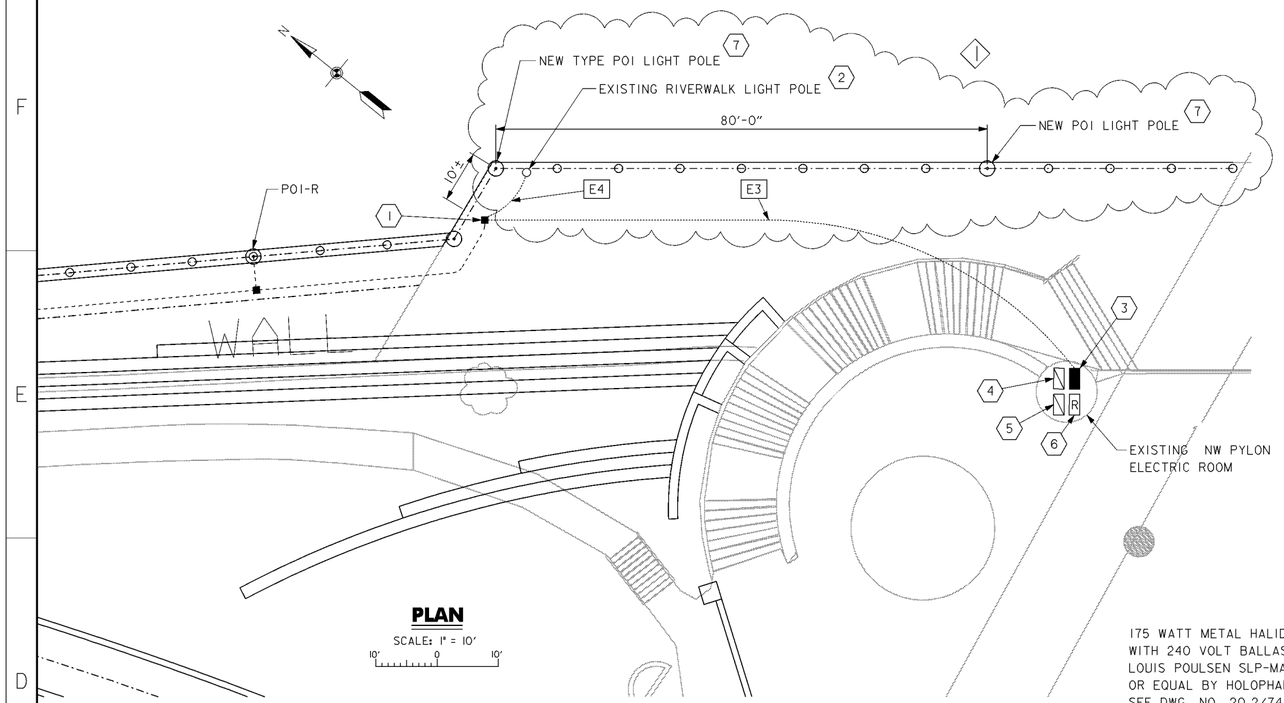
US Army Corps of Engineers

SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID

BROAD STREET PLAZA SECTIONS

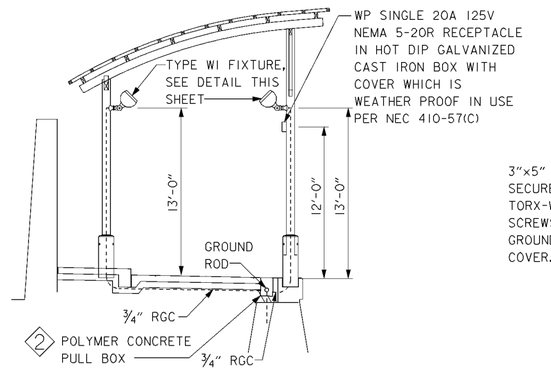
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/68
FILENAME: a0brps02.dgn
PEN TABLE:
Sheet 2 of 2

WORK AS CONSTRUCTED



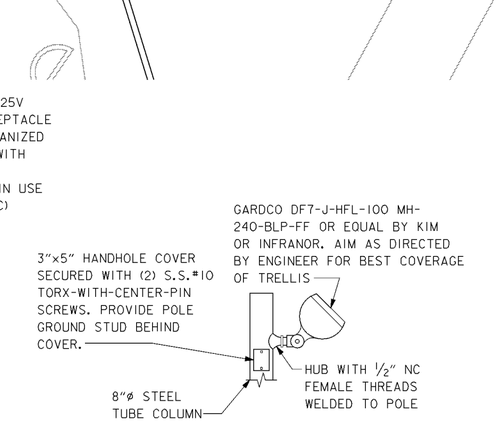
PLAN

SCALE: 1" = 10'



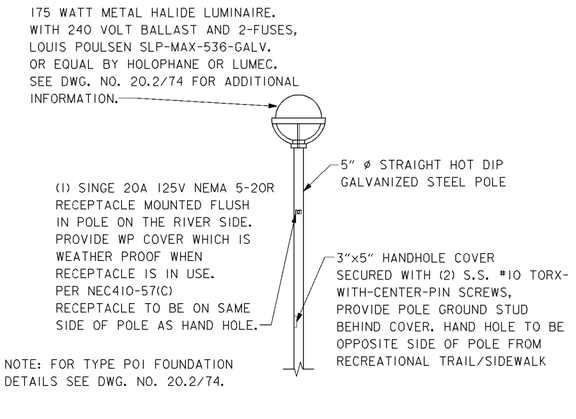
SECTION THROUGH TRELLIS AREA

SCALE: NONE



TYPE W1 FIXTURE DETAIL

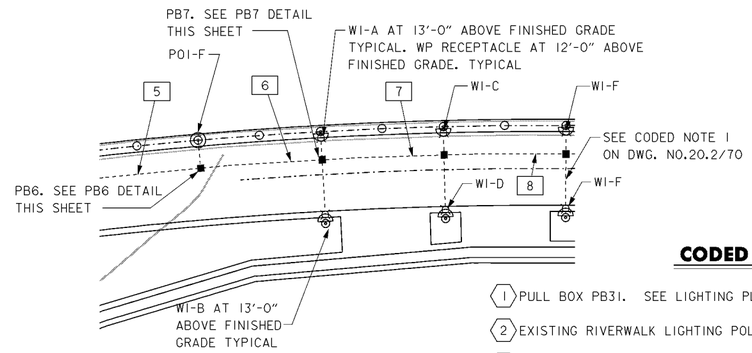
SCALE: NONE



NOTE: FOR TYPE PO1 FOUNDATION DETAILS SEE DWG. NO. 20.2/74.

TYPE PO1 AND PO2 LIGHT POLE

SCALE: NONE

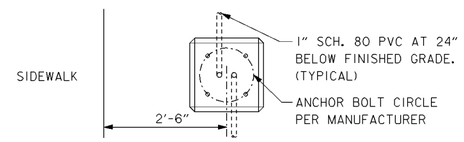


PARTIAL TRELLIS PLAN

SCALE: 1" = 10'

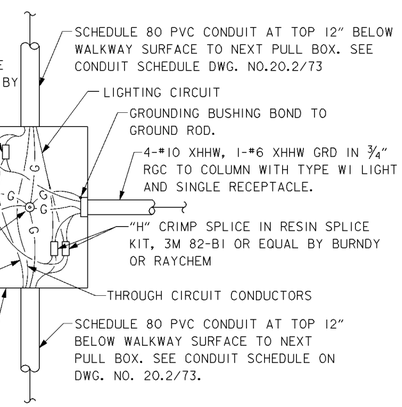
CODED NOTES

1. PULL BOX PB31. SEE LIGHTING PLAN ON DWG. NO.20.2/71.
2. EXISTING RIVERWALK LIGHTING POLE. SEE ELECTRICAL PLAN ON DWG. NO.20.2/71.
3. EXISTING 120/240 VOLT (V) 1-PHASE, 3-WIRE (W) PANELBOARD LPL-2 AND INTEGRAL 10 KILOVOLT-AMPERE (KVA) 480 V, 1-PHASE TO 120/240 V, 1-PHASE, 3-W DRY-TYPE TRANSFORMER. REPLACE WITH NEW POWER CENTER HAVING 100A 2-POLE (P) 480 V. PRIMARY 22,000 AMPERE INTERRUPTING CAPACITY (AIC) CIRCUIT BREAKER, A 25 KVA, 480V, 1-PHASE, 2-W, TO 120/240 V, 1-PHASE, 3-W DRY-TYPE TRANSFORMER WITH 2-5 PERCENT TAPS FULL CAPACITY BELOW NORMAL VOLTAGE, FULL LOAD TEMPERATURE RISE OF 115 DEGREE CENTIGRADE ABOVE AMBIENT, AND NEW PANELBOARD LPL-2. SEE PANELBOARD SCHEDULE ON DWG. NO. 20.2/73.
4. GENERAL PURPOSE, 30 AMPERE 6-POLE MECHANICALLY HELD CONTACTOR IN NEMA 1 ENCLOSURE WITH 2-WIRE CONTROL MODULE, HAND-OFF-AUTO SELECTOR SWITCH, AND 120 VOLT COIL, TO CONTROL THE THREE 20 AMPERE 240 V LIGHTING CIRCUITS. CONTACTOR TO BE ASCO BULLETIN 917 WITH ACCESSORY 48-TWO WIRE CONTROL, OR APPROVED EQUAL BY GENERAL ELECTRIC OR SQUARE D.
5. TUNGSTEN RATED, 20 AMPERE 8-POLE MECHANICALLY HELD LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE WITH 2-WIRE CONTROL MODULE, HAND-OFF-AUTO SELECTOR SWITCH, AND 120 VOLT COIL, TO CONTROL THE SEVEN 120 V RECEPTACLE CIRCUITS (ONE POLE IS SPARE). CONTACTOR TO BE ASCO BULLETIN 917 WITH ACCESSORY 48-TWO WIRE CONTROL, OR APPROVED EQUAL BY GENERAL ELECTRIC OR SQUARE D.
6. DOUBLE POLE SINGLE THROW RELAY WITH MINIMUM 10 AMPERE CONTACTS AND 480 VOLT COIL IN NEMA 1 ENCLOSURE TO INTERFACE BETWEEN THE RIVERWALK LIGHTING CIRCUIT AND THE CONTACTORS OF NOTES 5 AND 6 ABOVE. RELAY TO BE ALLEN-BRADLEY BULLETIN 700, TYPE P, OR EQUAL BY GENERAL ELECTRIC OR SQUARE D.
7. SEE ELECTRICAL PLAN ON DWG. NO. 20.2/71.



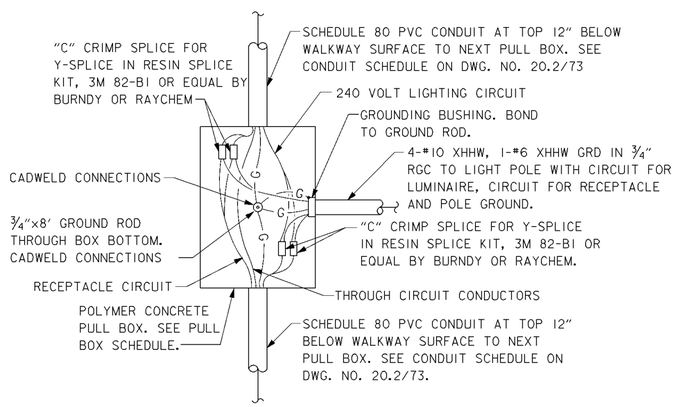
TYPE PO2 POLE FOUNDATION PLAN

SCALE: NONE



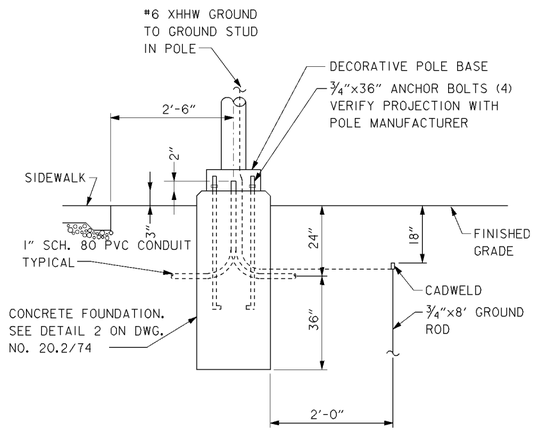
TYPICAL PULL BOX AT TRELLIS SUPPORT COLUMNS PB7 DETAIL

SCALE: NONE



TYPICAL PULL BOX AT LIGHT POLE PB6 DETAIL

SCALE: NONE



TYPE PO2 POLE FOUNDATION DETAIL

SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.
2	REV. BY CONTRACT MODIFICATION LETTER MC011	12/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.AYRES
Drawn by: A.PUMMELL
Checked by: D.SCHAMP
Reviewed by:
Approved by:

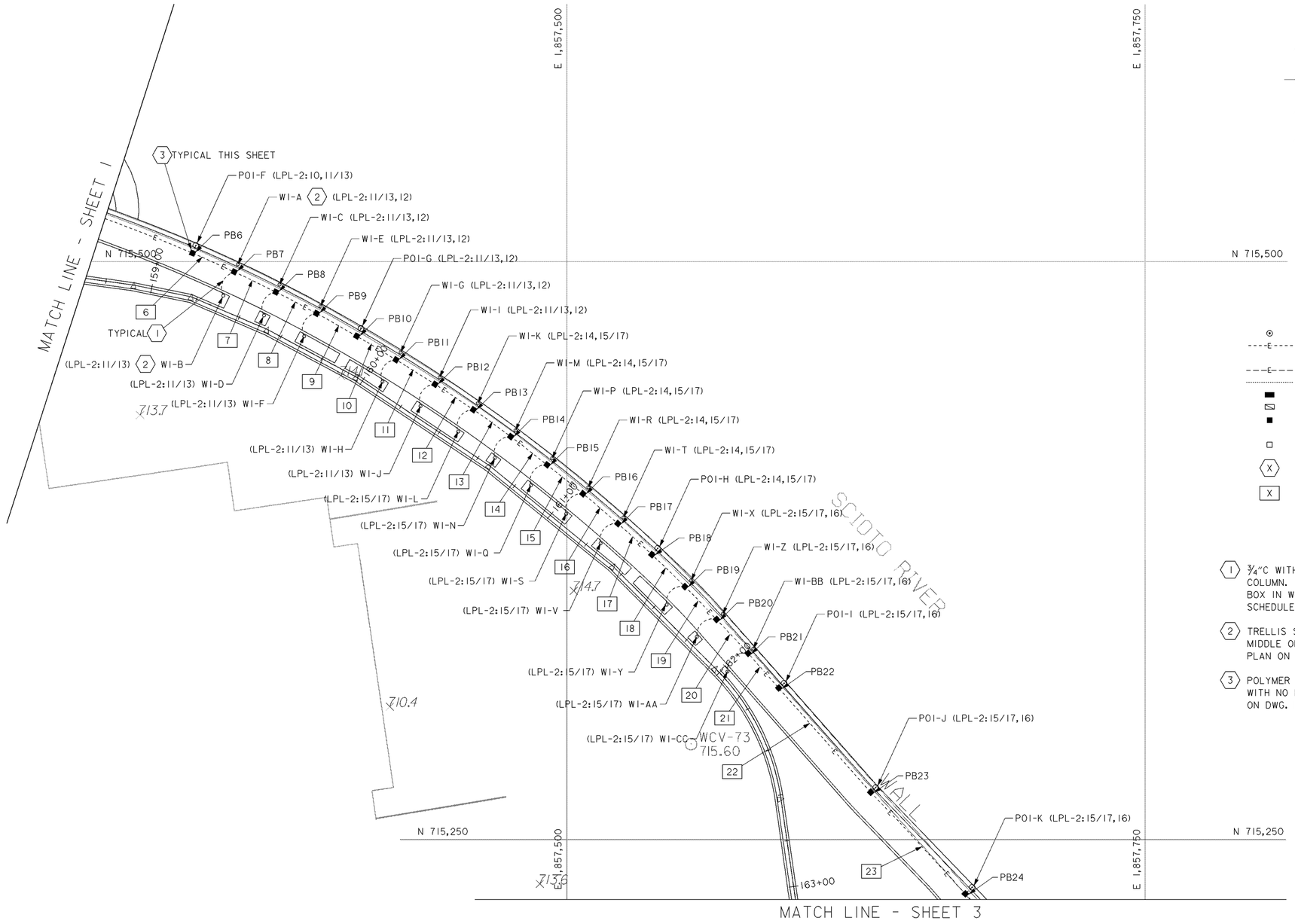
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

ELECTRICAL DETAILS (1 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/72
FILENAME: PIN TABLE: a0u5ed01.dgn
Sheet 1 of 2

WORK AS CONSTRUCTED



LEGEND

⊙	LIGHT POLE, SEE DETAILS ON DWG. NO. 20.2/72.
---E----	SCHEDULE 80 PVC CONDUIT 12" BELOW FINISHED WALKWAY SURFACE.
---E---	SCHEDULE 80 PVC CONDUIT 24" BELOW FINISHED GRADE
.....	EXISTING STEEL CONDUIT
▬	PANELBOARD
▭	LIGHTING CONTACTOR
■	PULL BOX, SEE PULL BOX DETAIL PB6 AND PB7 ON DWG. NO. 20.2/72
□	EMPTY PULL BOX, SEE EMPTY PULL BOX SECTION ON DWG NO. 20.2/73
⟨X⟩	CODED NOTE REFERENCE
[X]	CONDUIT NUMBER FLAG, SEE CONDUIT AND WIRE SCHEDULE ON DWG. NO. 20.2/73

CODED NOTES

⟨1⟩ ¾"C WITH TWO NO. 10, ONE NO. 6 GROUND TO TYPE WI UP LIGHT ON WEST SIDE COLUMN. CONNECT TO 240 V LIGHT CIRCUIT WITH SUBMERSIBLE H SPLICE IN PULL BOX IN WALKWAY. SEE PARTIAL TRELLIS PLAN ON DWG. NO. 20.2/72 AND PULL BOX SCHEDULE ON DWG. NO. 20.2/73.

⟨2⟩ TRELLIS SUPPORT COLUMN WITH TYPE WI UP-LIGHT AIMED TO LIGHT TRELLIS TO MIDDLE OF SPACE BETWEEN EAST AND WEST FLOODWALL. SEE PARTIAL TRELLIS PLAN ON DWG. NO. 20.2/72.

⟨3⟩ POLYMER CONCRETE PULL BOX WITH BOTTOM. BOX TO BE SET FLUSH IN WALKWAY WITH NO PROJECTIONS TO CREATE TRIPPING HAZARDS. SEE PULL BOX SCHEDULE ON DWG. NO. 20.2/73, AND CODED NOTE 2 ON DWG. NO. 20.2/69.

PLAN

SCALE: 1" = 20'
20' 0 20'

MATCH LINE - SHEET 3

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
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SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

ELECTRICAL PLAN (2 OF 3)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/70
FILENAME: PEN TABLE: 00u5ep02.dgn
Sheet 2 of 3

WORK AS CONSTRUCTED

MATCH LINE - SHEET 2

N

E 1,857,500

E 1,857,750

N 715,000

N 714,750

WEST BROAD STREET

703.5 713.2 717.6 710.2 733.9 733.8 733.9 728.3 716.9 720.4 716.5 718.3 717.3 716.1 714.2

O.L.P.

PB25 (1) TYPICAL THIS SHEET UNLESS NOTED OTHERWISE

24 POI-L (LPL-2:15/17,18)

25 POI-M (LPL-2:15/17,18)

PB26

26 POI-N (LPL-2:15/17,18)

PB27

27 POI-P (LPL-2:15/17,18)

PB28

28 POI-Q (LPL-2:15/17,18)

PB29

29 POI-R (LPL-2:15/17,18)

PB30

30

PB31 (1)

E4

PB33 (3)

PB32 (3)

PB34 (5)

E1

E2

PB35

POI-T (LPL-2:15/17,22)

9 POI-S (LPL-2:15/17,22)

(LPL-2:3,7/9) P02-A

(LPL-2:3,7/9) P02-B

(LPL-2:3,7/9) P02-C

(LPL-2:3,7/9) P02-D

(LPL-2:3,7/9) P02-E

(LPL-2:3,7/9) P02-F

P02-G (LPL-2:5,7/9)

(LPL-2:5,7/9) P02-H

(LPL-2:5,7/9) P02-I

(LPL-2:5,7/9) P02-J

2 PULL BOX

2 CONDUIT TO IRRIGATION HOT BOX

EX. NW PYLON ELECTRIC ROOM WITH NEW PANELBOARD LPL-2 AND CONTACTORS C1 AND C2. SEE ENLARGED PLAN OF THIS AREA ON DWG. NO.20.2/72. SEE ONE LINE DIAGRAM ON DWG. NO.20.2/73.

PROPOSED RECREATIONAL TRAIL

EXISTING NW PYLON ELECTRICAL ROOM

MARCONI BLVD.

BROAD STREET

CIVIC CENTER DRIVE

EXISTING ELECTRICAL VAULT

EXISTING PANELBOARD LPH-1

RIVERWALK

SCIOTO RIVER

WASHINGTON BLVD.

PARTIAL PLAN-BRIDGE FRA 40-12.26 OVER SCIOTO RIVER

SCALE: 1" = 100'
100' 0 100'

PLAN

SCALE: 1" = 20'
20' 0 20'

LEGEND

- LIGHT POLE, SEE DETAILS ON DWG. NO. 20.2/72.
- ----E---- SCHEDULE 80 PVC CONDUIT 12" BELOW FINISHED WALKWAY SURFACE.
- ---E--- SCHEDULE 80 PVC CONDUIT 24" BELOW FINISHED GRADE
- EXISTING STEEL CONDUIT
- PANELBOARD
- LIGHTING CONTACTOR
- PULL BOX, SEE PULL BOX DETAIL PB6 AND PB7 ON DWG. NO. 20.2/72
- EMPTY PULL BOX, SEE EMPTY PULL BOX SECTION ON DWG NO. 20.2/73
- (X) CODED NOTE REFERENCE
- [X] CONDUIT NUMBER FLAG, SEE CONDUIT AND WIRE SCHEDULE ON DWG. NO. 20.2/73

CODED NOTES

1. TWO STACKABLE POLYMER CONCRETE PULL BOXES, ONE WITH BOTTOM AND ONE WITHOUT BOTTOM. STACKED BOXES TO BE SET FLUSH IN WALKWAY WITH NO PROJECTIONS TO CREATE TRIPPING HAZARDS.REMOVE AND REPLACE CONCRETE RIVERWALK AS REQUIRED TO LOCATE EXISTING CONDUIT E4 AND EXTEND IT INTO THE NEW PULL BOX. DIMENSIONS SHOWN FOR EXISTING CONDUIT LOCATIONS ARE APPROXIMATE. SEE PULL BOX SCHEDULE ON DWG. NO. 20.2/73. COVER AND HARDWARE PER CODED NOTE 2 ON DWG. NO. 20.2/69. EXTEND LIGHTING AND RECEPTACLE CIRCUITS TO PB35.
2. STUB 1" C. OUT 5'-0" AND CAP 18" BEG.
3. POLYMER CONCRETE PULL BOX WITH BOTTOM. BOX TO BE SET FLUSH IN WALKWAY WITH NO PROJECTIONS TO CREATE TRIPPING HAZARDS. SEE PULL BOX SCHEDULE ON DWG. NO. 20.2/73.
4. MAKE CONNECTION TO EXISTING 1½" SPARE CONDUIT STUBBED OUT INTO DIRT AT EDGE OF SIDEWALK.
5. EXISTING 14" X 14" X 8" CAST IRON JUNCTION BOX IN SIDEWALK. REMOVE COVER, PULL IN NEW WIRING, REPLACE COVER GASKET WITH NEW GASKET, AND REPLACE ANY COVER BOLTS DAMAGED IN THE COVER REMOVAL/REPLACEMENT PROCESS.
6. EXISTING 1½" CONDUIT INTO NW PYLON ELECTRIC ROOM. EXTEND CONDUIT INTO NEW PANELBOARD LPL-2 INSIDE ELECTRIC ROOM.
7. REMOVE EXISTING RIVERWALK LIGHT AND TURN OVER TO THE CITY OF COLUMBUS DIVISION OF ELECTRICITY. ABANDON EXISTING WIRING IN PLACE. REMOVE EXISTING CONDUIT AND WIRE SHALLOWER THAN 1'-0" BELOW FINISHED GRADE.
8. PROVIDE DUPLEX 15 AMP, 125 VOLT NEMA 5-15R RECEPTACLE IN CAST IRON FS BOX WITH STAINLESS STEEL FLUSH DEVICE PLATE IN BOTTOM OF IRRIGATION CONTROL CABINET FOR CORD AND PLUG FROM 2.5 AMP, 117 VOLT IRRIGATION CONTROLLER. CONNECT TO CIRCUIT LPL-2.20.
9. POI TYPE LIGHT POLE ON NEW BOLLARD PER DETAIL 1 ON DWG. NO. 20.2/74.
10. PULL BOX W/ 2-#10, 1-#10 GRD CONTROL CIRCUIT. EXTEND CIRCUIT TO CONTROL RELAY IN EXISTING NW PYLON TO CONTROL CONTACTORS C1 AND C2.

Revisions			
Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REV. BY CONTRACT MODIFICATION LETTER MC011	12/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.AYRES
Drawn by: A.PUMMELL
Checked by: D.SCHAMP
Reviewed by:
Approved by:

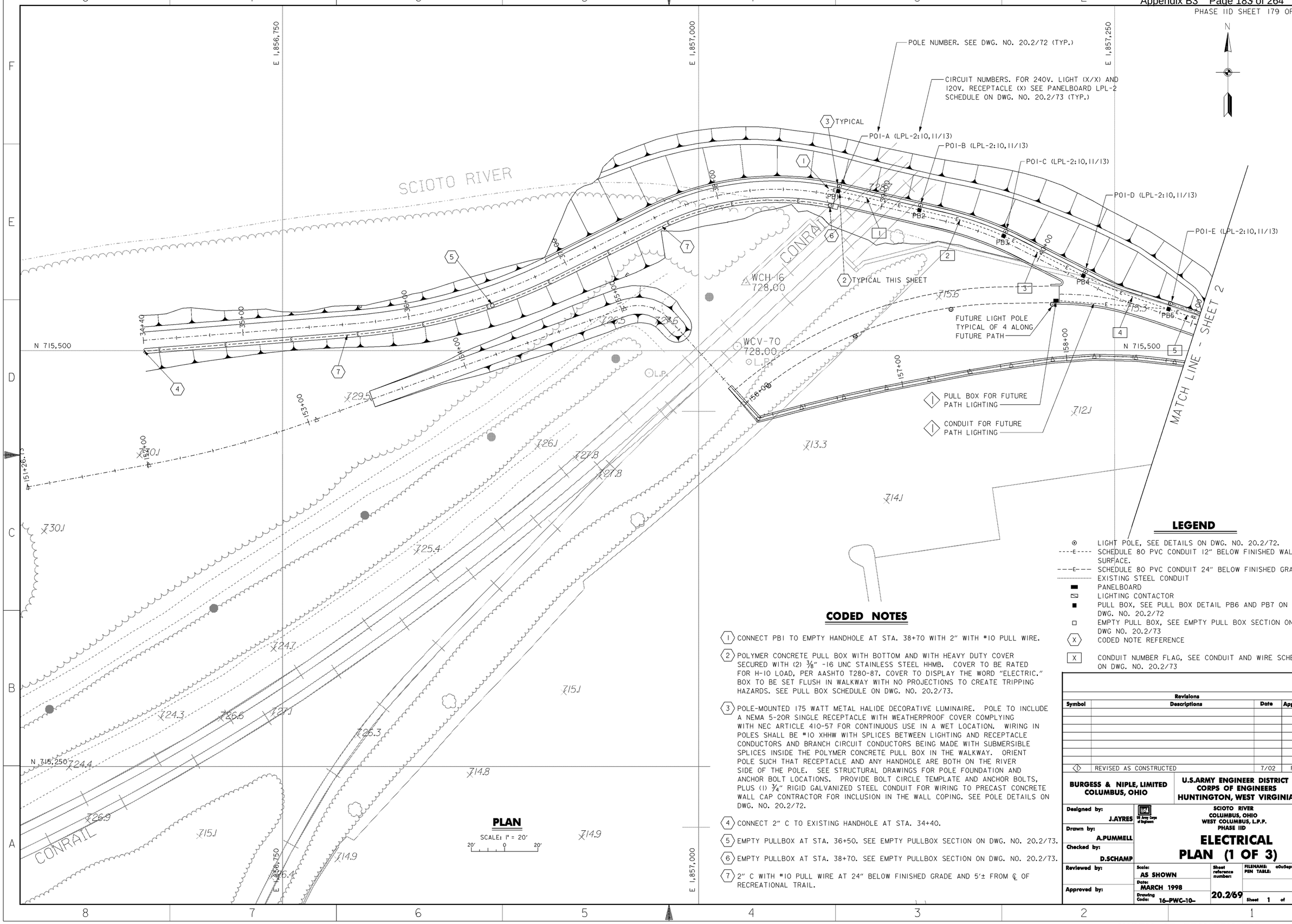
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

ELECTRICAL PLAN (3 OF 3)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/71
FILENAME: a0u5ep03.dgn
PEN TABLE:
Sheet 3 of 3

WORK AS CONSTRUCTED



CODED NOTES

1. CONNECT PB1 TO EMPTY HANDHOLE AT STA. 38+70 WITH 2" WITH #10 PULL WIRE.
2. POLYMER CONCRETE PULL BOX WITH BOTTOM AND WITH HEAVY DUTY COVER SECURED WITH (2) ⅜" -16 UNC STAINLESS STEEL HHMB. COVER TO BE RATED FOR H-10 LOAD, PER AASHTO T280-87. COVER TO DISPLAY THE WORD "ELECTRIC." BOX TO BE SET FLUSH IN WALKWAY WITH NO PROJECTIONS TO CREATE TRIPPING HAZARDS. SEE PULL BOX SCHEDULE ON DWG. NO. 20.2/73.
3. POLE-MOUNTED 175 WATT METAL HALIDE DECORATIVE LUMINAIRE. POLE TO INCLUDE A NEMA 5-20R SINGLE RECEPTACLE WITH WEATHERPROOF COVER COMPLYING WITH NEC ARTICLE 410-57 FOR CONTINUOUS USE IN A WET LOCATION. WIRING IN POLES SHALL BE #10 XHHW WITH SPLICES BETWEEN LIGHTING AND RECEPTACLE CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS BEING MADE WITH SUBMERSIBLE SPLICES INSIDE THE POLYMER CONCRETE PULL BOX IN THE WALKWAY. ORIENT POLE SUCH THAT RECEPTACLE AND ANY HANDHOLE ARE BOTH ON THE RIVER SIDE OF THE POLE. SEE STRUCTURAL DRAWINGS FOR POLE FOUNDATION AND ANCHOR BOLT LOCATIONS. PROVIDE BOLT CIRCLE TEMPLATE AND ANCHOR BOLTS, PLUS (1) ¾" RIGID GALVANIZED STEEL CONDUIT FOR WIRING TO PRECAST CONCRETE WALL CAP CONTRACTOR FOR INCLUSION IN THE WALL COPING. SEE POLE DETAILS ON DWG. NO. 20.2/72.
4. CONNECT 2" C TO EXISTING HANDHOLE AT STA. 34+40.
5. EMPTY PULLBOX AT STA. 36+50. SEE EMPTY PULLBOX SECTION ON DWG. NO. 20.2/73.
6. EMPTY PULLBOX AT STA. 38+70. SEE EMPTY PULLBOX SECTION ON DWG. NO. 20.2/73.
7. 2" C WITH #10 PULL WIRE AT 24" BELOW FINISHED GRADE AND 5'± FROM ℄ OF RECREATIONAL TRAIL.

LEGEND

- ⊙ LIGHT POLE, SEE DETAILS ON DWG. NO. 20.2/72.
- ----E---- SCHEDULE 80 PVC CONDUIT 12" BELOW FINISHED WALKWAY SURFACE.
- ---E--- SCHEDULE 80 PVC CONDUIT 24" BELOW FINISHED GRADE
- ..... EXISTING STEEL CONDUIT
- ▬ PANELBOARD
- ▨ LIGHTING CONTACTOR
- ■ PULL BOX, SEE PULL BOX DETAIL PB6 AND PB7 ON DWG. NO. 20.2/72
- □ EMPTY PULL BOX, SEE EMPTY PULL BOX SECTION ON DWG NO. 20.2/73
- ⟨X⟩ CODED NOTE REFERENCE
- [X] CONDUIT NUMBER FLAG, SEE CONDUIT AND WIRE SCHEDULE ON DWG. NO. 20.2/73

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

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US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

ELECTRICAL PLAN (1 OF 3)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/69
FILENAME: a0u5ap01.dgn
PEN TABLE:
Sheet 1 of 3

WORK AS CONSTRUCTED

CONDUIT AND WIRE SCHEDULE								
SCH.80 PVC CONDUIT		NUMBER OF CIRCUIT CONDUCTORS BY AWG SIZE					GRD WIRE AWG SIZE	CIRCUIT NUMBERS LPL-2-:
NO.	SIZE(IN)	10	8	6	4	2		
1	1½"				2	2	2	10, 11/13
2	1½"				2	2	2	10, 11/13
3	1½"				2	2	2	10, 11/13
4	1½"				2	2	2	10, 11/13
5	1½"				2	2	2	10, 11/13
6	1½"				2	2	2	10, 11/13
7	1½"				4	2	2	10, 11/13, 12
8	1½"				4	2	2	10, 11/13, 12
9	1½"				4	2	2	10, 11/13, 12
10	1½"				4	2	2	10, 11/13, 12
11	1½"				4	2	2	10, 11/13, 12
12	1½"				4	2	2	10, 11/13, 12
13	2"				8	2	2	10, 11/13, 12 14, 15/17
14	2"				8	2	2	10, 11/13, 12 14, 15/17
15	2"				8	2	2	10, 11/13, 12 14, 15/17
16	2"				8	2	2	10, 11/13, 12 14, 15/17
17	2"				8	2	2	10, 11/13, 12 14, 15/17
18	2"				8	2	2	10, 11/13, 12 14, 15/17
◇2	19	3"				10	2	2	10, 11/13, 12, 14 15/17, 16
◇2	20	3"				10	2	2	10, 11/13, 12, 14 15/17, 16
◇2	21	3"				10	2	2	10, 11/13, 12, 14 15/17, 16
◇2	22	3"				10	2	2	10, 11/13, 12, 14 15/17, 16
◇2	23	3"				10	2	2	10, 11/13, 12, 14 15/17, 16
◇2	24	3"				10	2	2	10, 11/13, 12, 14 15/17, 16
◇2	25	3"			2	10	2	2	10, 11/13, 12, 14 15/17, 16, 18
◇2	26	3"			2	10	2	2	10, 11/13, 12, 14 15/17, 16, 18
◇2	27	3"			2	10	2	2	10, 11/13, 12, 14 15/17, 16, 18
◇2	28	3"			2	10	2	2	10, 11/13, 12, 14 15/17, 16, 18

CONDUIT AND WIRE SCHEDULE								
SCH.80 PVC CONDUIT		NUMBER OF CIRCUIT CONDUCTORS BY AWG SIZE					GRD WIRE AWG SIZE	CIRCUIT NUMBERS LPL-2-:
NO.	SIZE(IN)	10	8	6	4	2		
◇2 29	3"			2	10	2	2	10, 11/13, 12, 14 15/17, 16, 18
◇2 30	3"			2	10	2	2	10, 11/13, 12, 14 15/17, 16, 18
31	1"	2		2			6	3, 7/9
32	1"	2		2			6	3, 7/9
33	1"	2		2			6	3, 7/9
34	1"	2		2			6	3, 7/9
35	1"	2		2			6	3, 7/9
36	1"	2		2			6	3, 7/9
37	1"	4					10	5, 7/9
38	1"	4					10	5, 7/9
39	1"	4					10	5, 7/9
◇2 40	2"	6		2			6	3, 5, 7/9, 20
41	1"	2					10	20
42	1"	4					10	5, 7/9
43	1"	2		2			6	3, 7/9
44	1"	4					10	15/17, 22
45	1"	4					10	15/17, 22
46	1"	2					10	CONTROL

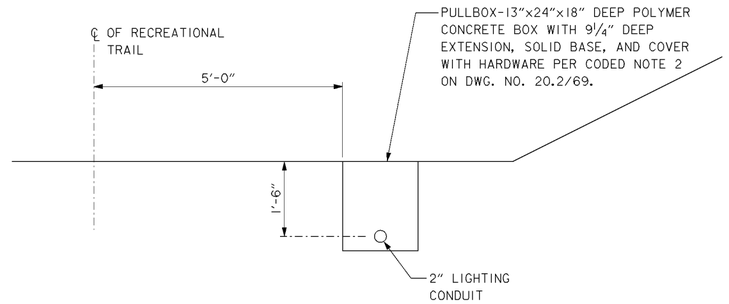
CONDUIT AND WIRE SCHEDULE								
EXISTING STEEL CONDUIT		NUMBER OF CIRCUIT CONDUCTORS BY AWG SIZE					GRD WIRE AWG SIZE	CIRCUIT NUMBERS LPL-2:
NO.	SIZE(IN)	10	8	6	4	2		
E1	1½"	6		2			6	3, 5, 7/9, 20
E2	1½"	6		2			6	3, 5, 7/9, 20
E3	2"	4		2	10	2	2&10	10, 11/13, 12, 14 15/17, 16, 18, 22 CONTROL
E4	1½"	2		◇1			10	CONTROL CIRCUIT FROM RIVER WALK

PULL BOX SCHEDULE						
PULL BOX NO.	N=NEW E=EXISTING	INSIDE DIMENSIONS	BOX TYPE PC=POLYMER CONC. CI=CAST IRON	GROUND ROD	NO. SPLICE BY TYPE Y	NO. SPLICE BY TYPE H
1	N	10½"×17½"×17¼"	PC*	¾"x8'	4	
2	N	10½"×17½"×17¼"	PC*	¾"x8'	4	
3	N	10½"×17½"×17¼"	PC*	¾"x8'	4	
4	N	10½"×17½"×17¼"	PC*	¾"x8'	4	
5	N	10½"×17½"×17¼"	PC*	¾"x8'	4	
6	N	10½"×17½"×17¼"	PC*	¾"x8'	4	
7	N	10½"×17½"×17¼"	PC*	¾"x8'		4
8	N	10½"×17½"×17¼"	PC*	¾"x8'		4
9	N	10½"×17½"×17¼"	PC*	¾"x8'		4
10	N	10½"×17½"×17¼"	PC*	¾"x8'	4	
11	N	10½"×17½"×17¼"	PC*	¾"x8'		4
12	N	10½"×17½"×17¼"	PC*	¾"x8'		4
13	N	10½"×17½"×17¼"	PC*	¾"x8'		4
14	N	10½"×17½"×17¼"	PC*	¾"x8'		4
15	N	10½"×17½"×17¼"	PC*	¾"x8'		4
16	N	10½"×17½"×17¼"	PC*	¾"x8'		4
17	N	10½"×17½"×17¼"	PC*	¾"x8'		4
18	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
19	N	11¾"×21¼"×17¼"	PC*	¾"x8'		4
20	N	11¾"×21¼"×17¼"	PC*	¾"x8'		4
21	N	11¾"×21¼"×17¼"	PC*	¾"x8'		4
22	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
23	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
24	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
25	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
26	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
27	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
28	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
29	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
30	N	11¾"×21¼"×17¼"	PC*	¾"x8'	4	
◇1 31	N	(2)13"×24"×11¾"**	PC*	¾"x8'	2	2
32	N	12"×12"×13¼"	PC*	¾"x8'	NONE	
33	N	12"×12"×13¼"	PC*	¾"x8'	2	
◇1 34	E	14"×14"×8"	CI		NONE	
35	N	10½"×17½"×17¼"	PC*	¾"x8'	NONE	

* REFER TO CODED NOTES ON ELECTRICAL PLAN SHEETS AND TO SPECIFICATIONS FOR POLYMER CONCRETE PULL BOXES. ALSO SEE SPECIFICATIONS FOR REQUIRED CONCRETE FINISHING RING IN ASPHALT PAVEMENT AND TREATMENT OF CONCRETE SIDEWALK AT PULL BOXES.

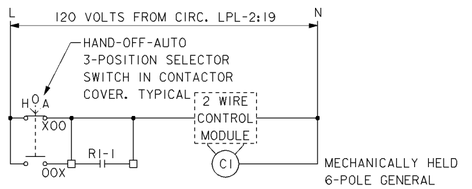
**TWO PULL BOXES STACKED TO FORM 23½" DEEP PULL BOX. BOTTOM BOX TO HAVE SOLID BOTTOM; TOP BOX TO HAVE NO BOTTOM.

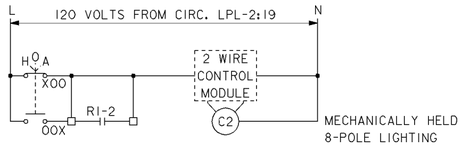
NEW PANELBOARD LPL-2 SCHEDULE							
120/240V, 1ø, 3-W, 225 AMP BUS					PANEL LOADING SCHEDULE		
125 AMP MAIN: CB (X) SW ( ) LUGS ( )					CONNECTED		DEMAND
FEED THRU LUGS ( )					PHASE	A	B	TOTAL	----
SURFACE (X) FLUSH ( ) COLUMN TYPE ( )					AMPS	84.8	75.7	----	80.25
ENCLOSURE: NEMA 1( ) 3R(X) 12( ) 4X( )					KVA	10.18	9.08	19.26	19.26
CIRCUIT DESCRIPTION	LOAD AMPS	BKR./ POLES	CKT. NO.		BKR./ POLES	LOAD AMPS	CIRCUIT DESCRIPTION
EX. NW PYLON LIGHT AND RECEPT.	2.3	20/1	1	2	20/1	3.3	EXIST. RECEPTACLE AT RIVERWALK
RECEPTACLE PO2-A THRU PO2-E	7.5	20/1	3	4	20/1	3.3	EXIST. RECEPTACLE AT RIVERWALK
RECEPTACLE PO2-F THRU PO2-I	7.5	20/1	5	6	20/1	3.3	EXIST. RECEPTACLE AT RIVERWALK
IGHTS PO2-A THRU PO2-J	9.0	20/2	7	8	20/1	3.3	EXIST. RECEPTACLE AT RIVERWALK
	9.0		9	10	20/1	9.0	RECEPTACLE PO1-A THRU PO1-F
LIGHTS. PO1-A THRU WI-J ◇1	11.3	20/2	11	12	20/1	9.0	RECEPTACLE WI-A THRU WI-I
	11.3		13	14	20/1	9.0	RECEPTACLE WI-K THRU PO1-H
LIGHTS. WI-K THRU PO1-T	18.8	30/2	15	16	20/1	9.0	RECEPTACLE WI-X THRU PO1-K
	18.8		17	18	20/1	12.0	RECEPTACLE PO1-L THRU PO1-T
LIGHTING CONTACTOR CONTROL	2.0	20/1	19	20	15/1	2.5	IRRIGATION CONTROLLER
◇2 HOT BOX REC.	-	20/1	21	22	20/1	-	SPARE
SPARE	-	20/1	23	24	20/1		SPARE



EMPTY PULLBOX SECTION

SCALE: NONE
RECREATIONAL TRAIL
STATION 36+50 AND 38+70

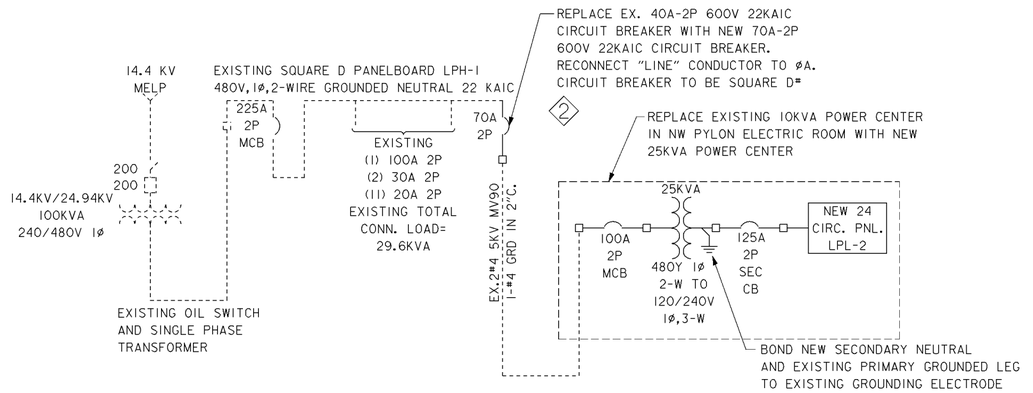




◇2

LIGHTING AND RECEPTACLE CONTACTORS CONTROL SCHEMATIC DIAGRAM

SCALE: NONE



PARTIAL ONE LINE DIAGRAM OF THE EXISTING ELECTRICAL SYSTEM

SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved
◇2	REVISED AS CONSTRUCTED	7/02	P.O.C.
◇1	REV. BY CONTRACT MODIFICATION LETTER MC011	12/99	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: J.AYRES
Drawn by: A.PUMMELL
Checked by: D.SCHAMP
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

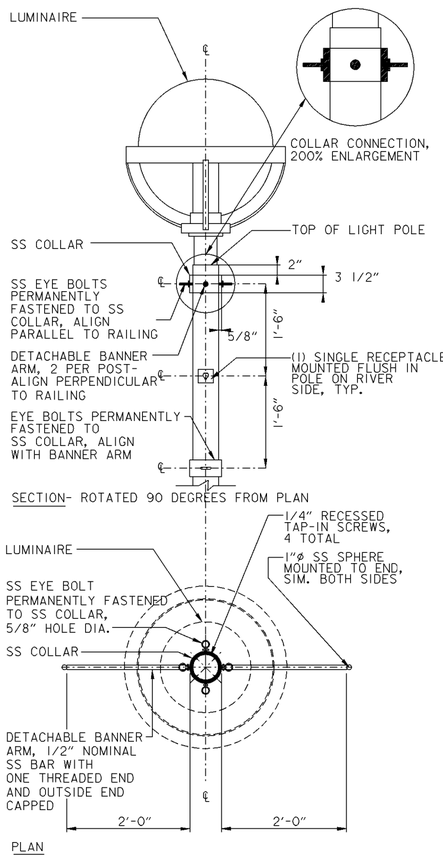
ELECTRICAL DETAILS (2 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/73
FILENAME: a0u5ed02.dgn
PEN TABLE:
Sheet 2 of 2

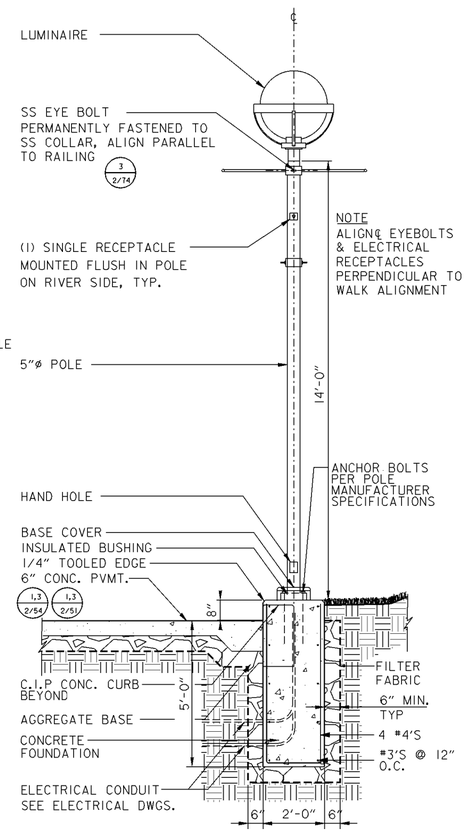
WORK AS CONSTRUCTED

NOTES

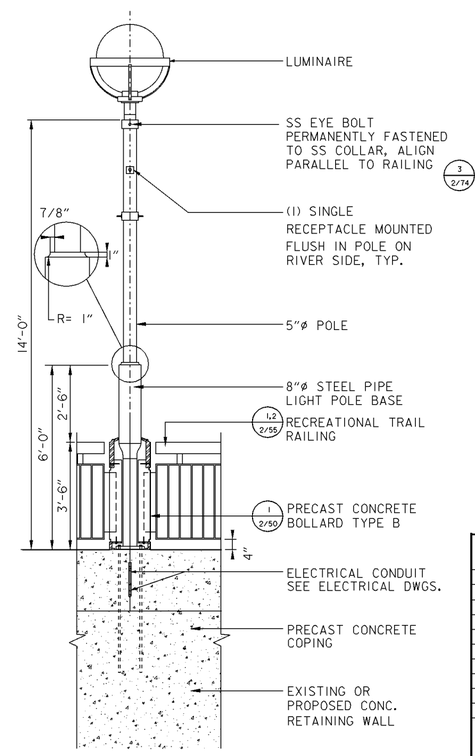
1. SEE DWG. NO. 20.2/72 ELECTRICAL DETAILS 1 OF 2 FOR ADDITIONAL DETAILS FOR LIGHT FIXTURES.
2. SEE SPECIFICATIONS FOR FINISHES.
3. STEEL FABRICATION SHOP DRAWINGS, INCLUDING ALL WELD DETAILS, SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER.



3 / 2/74 **TYPICAL LIGHT POLE COLLAR DETAIL**
SCALE: 1"=1'-0"
1' 0 1'



2 / 2/74 **LIGHT POLE AT LAWN: SECTION**
SCALE: 1/2"=1'-0"
2' 0 2'



1 / 2/74 **LIGHT POLE ON BOLLARD**
SCALE: 1/2"=1'-0"
2' 0 2'

SASAKI ASSOCIATES, INC. WATERTOWN, MASSACHUSETTS
MYERS-SCHMALENBURGER, INC. COLUMBUS, OHIO

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: SOD
Drawn by: IS /CLB /GMF
Checked by: CLO
Reviewed by: NJD
Approved by:

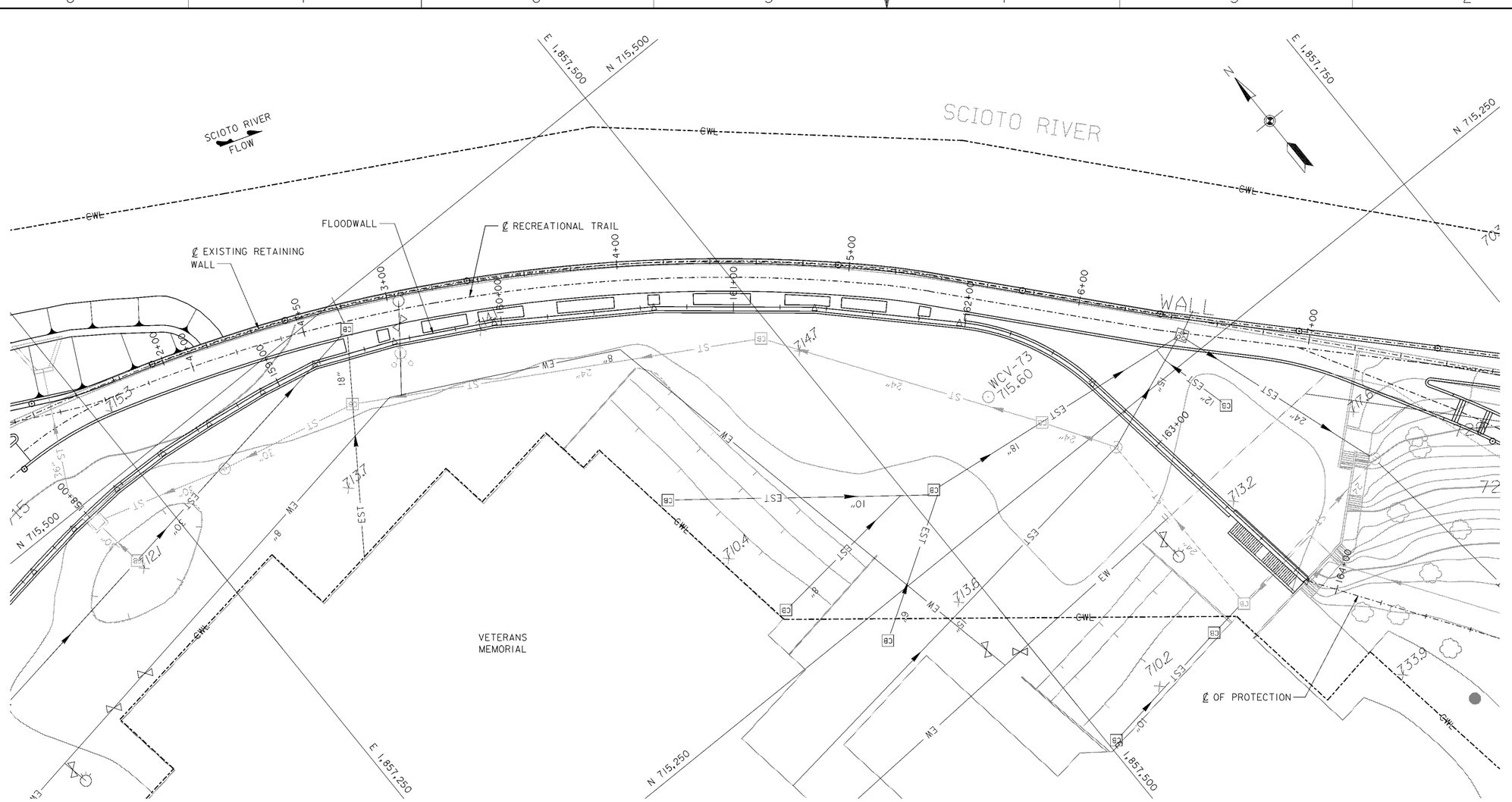
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

SITE LIGHTING DETAILS

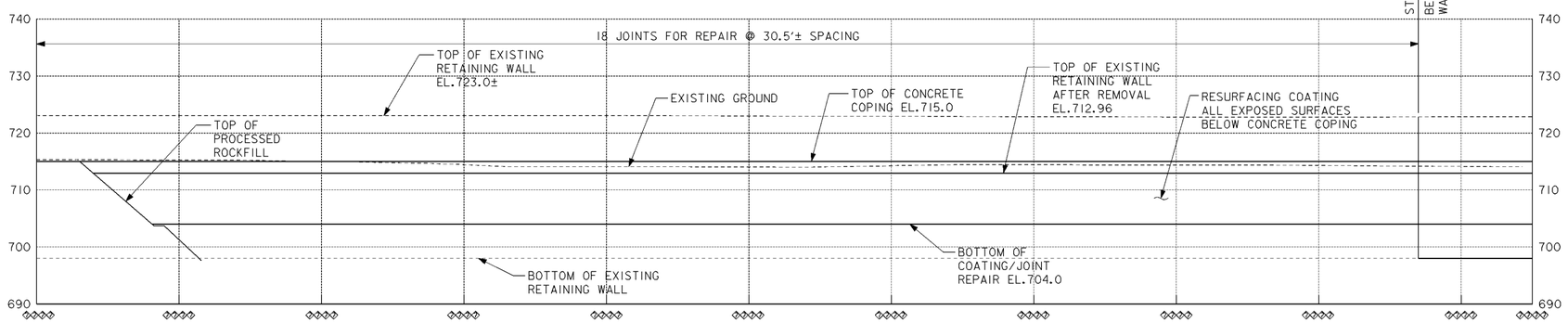
Scale: AS NOTED
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/74
FILENAME: PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'



EXISTING RETAINING WALL PROFILE

SCALE IN FEET

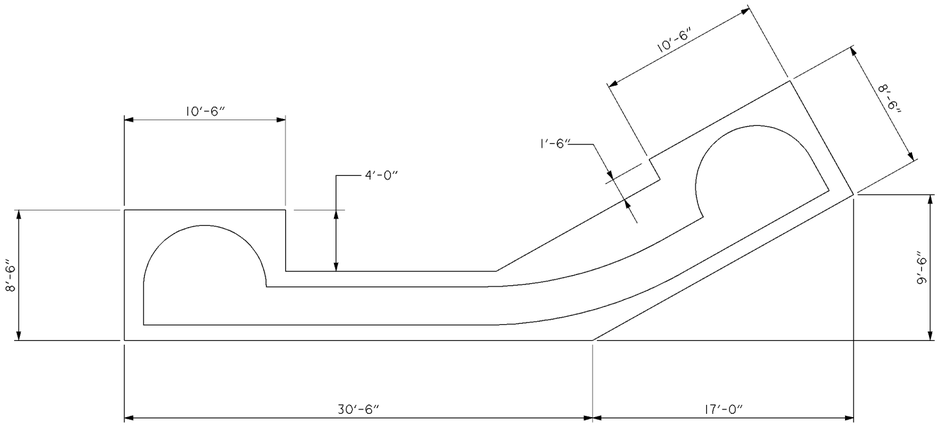
NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO.0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR RECREATIONAL TRAIL AND VETERANS MEMORIAL PATH LAYOUT SEE DRAWING NOS. 16/50 THRU 16/51 AND 20.2/35 THRU 20.2/37.
4. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/2 AND 16/2 THRU 16/3.
5. FOR JOINT REPAIR DETAIL SEE DRAWING NO.20.2/76.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: T.MULLINS	**EXISTING RETAINING WALL ELEVATION**
Checked by: P.CONROY	
Reviewed by:	Scale: AS SHOWN; Sheet reference number: 20.2/75; FILENAME: PEN TABLE: 00rhpp01.dgn
Approved by:	Date: MARCH 1998; Drawing Code: 16-PWC-10-; Sheet 1 of 1

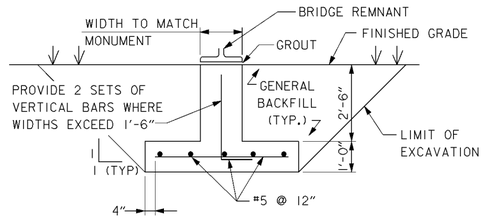
WORK AS CONSTRUCTED



BROAD STREET BRIDGE REMNANT FOUNDATION PLAN

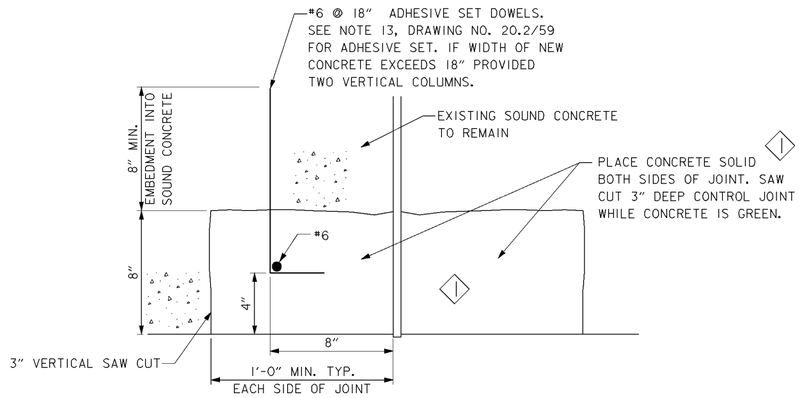
SCALE: 1/4" = 1'-0"

NOTE: CONTRACTOR TO VERIFY ALL MONUMENT DIMENSIONS PRIOR TO CONSTRUCTION.



TYPICAL SECTION BROAD STREET BRIDGE REMNANT FOUNDATION

SCALE: 1/2" = 1'-0"



TYPICAL SECTION – PLAN EXISTING RETAINING WALL JOINT REPAIR

SCALE: 3" = 1'-0"

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: A.PUMMELL
Checked by: P.CONROY
Reviewed by:
Approved by:

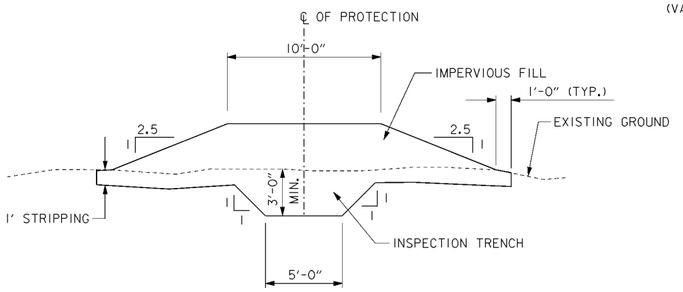
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

BROAD STREET BRIDGE REMNANT DETAILS

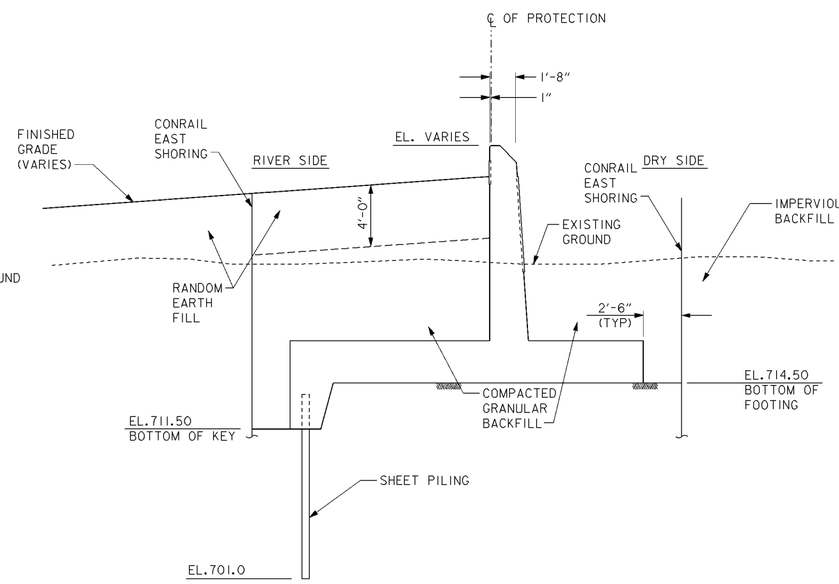
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.2/76
FILENAME: a0rhdt01.dgn
PRN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED



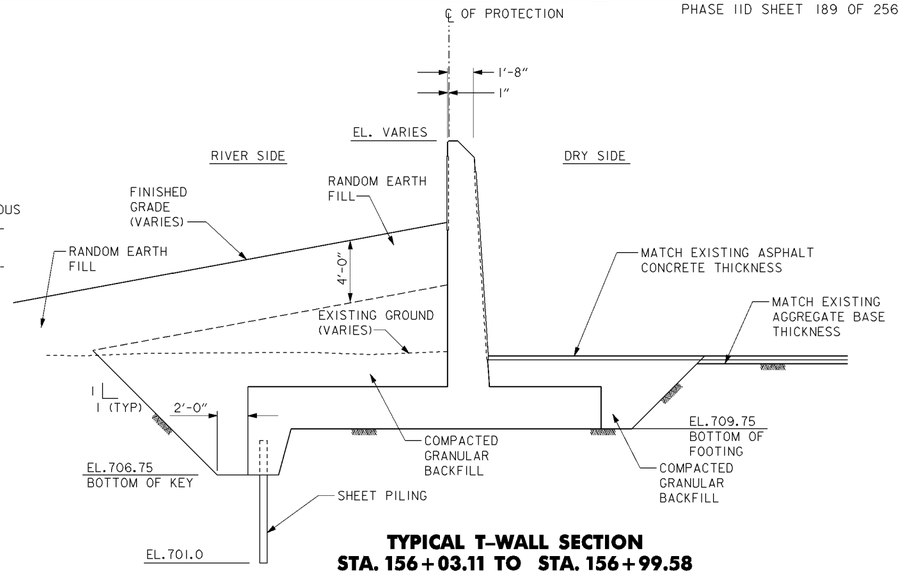
TYPICAL INSPECTION TRENCH
STA. 153+40.80 TO STA. 155+45.77

SCALE: 1/4" = 1'-0"



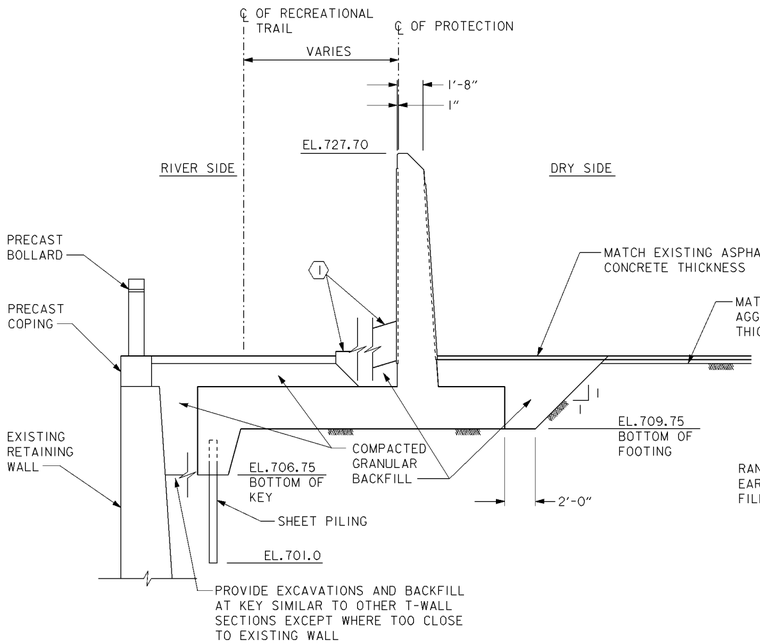
TYPICAL T-WALL SECTION
STA. 155+86.03 TO STA. 156+03.11

SCALE: 1/4" = 1'-0"



TYPICAL T-WALL SECTION
STA. 156+03.11 TO STA. 156+99.58
STA. 162+74.09 TO STA. 163+00.75

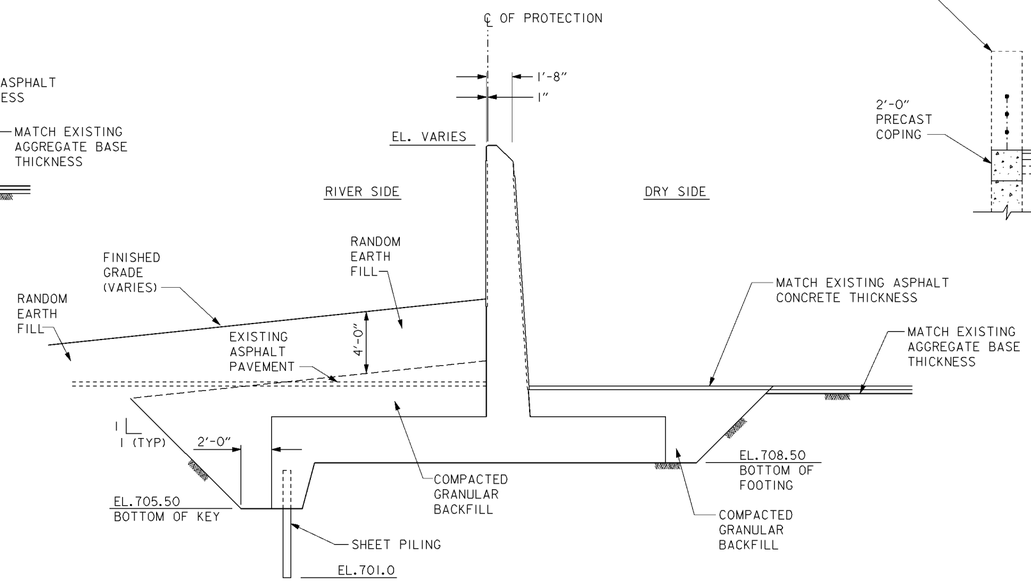
SCALE: 1/4" = 1'-0"



TYPICAL T-WALL SECTION
STA. 156+99.58 TO STA. 159+08.31
STA. 162+23.60 TO STA. 162+74.09

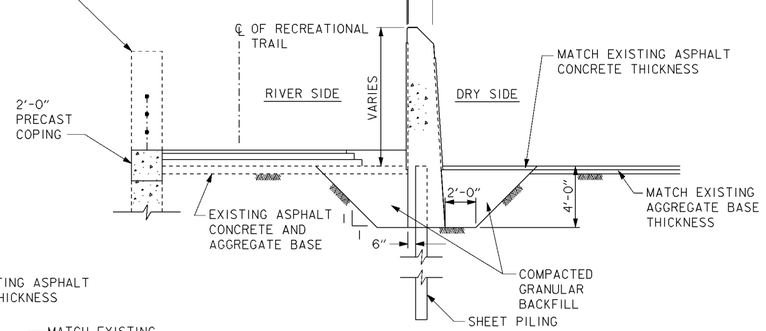
SCALE: 1/4" = 1'-0"

(1) PROVIDE RANDOM EARTHFILL AND COMPACTED GRANULAR BACKFILL SIMILAR TO OTHER T-WALL SECTIONS EXCEPT WHERE FILL THICKNESS AT RIVERSIDE LIMIT OF FOOTING IS LESS THAN 4 FEET THEN ONLY RANDOM EARTHFILL SHALL BE USED.



TYPICAL T-WALL SECTION
STA. 163+00.75 TO STA. 163+43.55

SCALE: 1/4" = 1'-0"



TYPICAL I-WALL SECTION
STA. 159+08.31 TO STA. 162+23.60

SCALE: 1/4" = 1'-0"

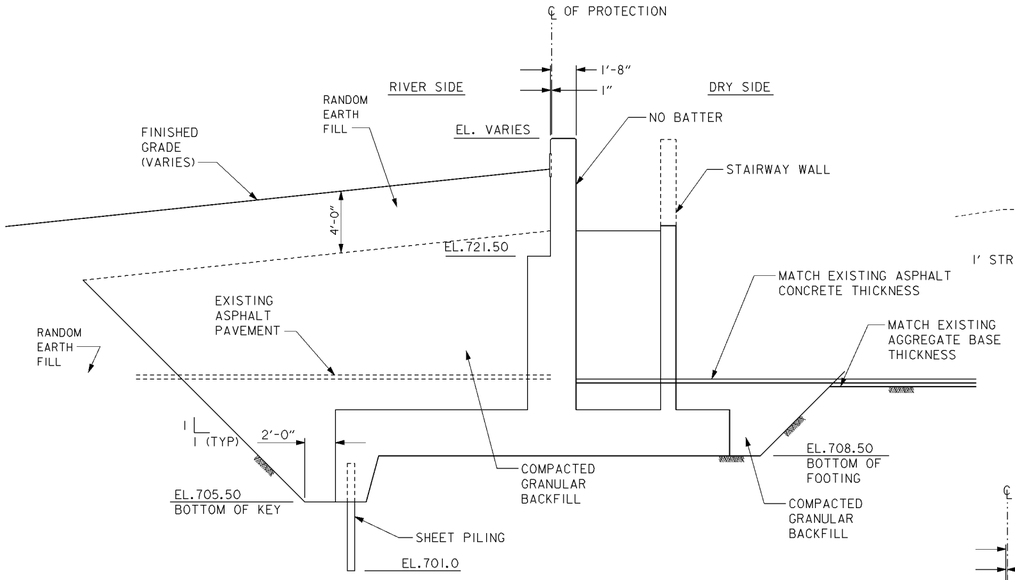
NOTES

1. 6-INCH TOPSOIL NOT SHOWN.
2. FOR ADDITIONAL TYPICAL FLOOD PROTECTION SECTIONS SEE DRAWING NO.20.3/2.

Revisions			
Symbol	Descriptions	Date	Approved

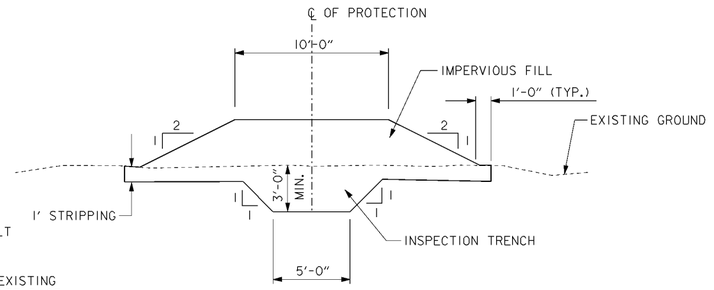
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: T.MULLINS	**FLOOD PROTECTION TYP SECTIONS (1 OF 2)**
Checked by: P.CONROY	
Reviewed by:	Scale: AS SHOWN; Date: MARCH 1998; Drawing Code: 16-PWC-10-; Sheet reference number: 20.3/1; FILENAME: 00sdts01.dgn; PEN TABLE:
Approved by:	Sheet 1 of 2

WORK AS CONSTRUCTED



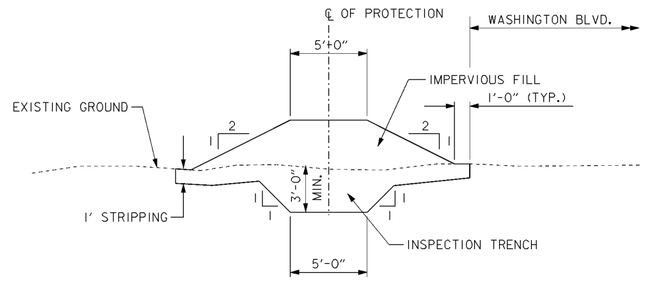
TYPICAL T-WALL SECTION
STA. 163+43.55 TO STA. 163+86.17

SCALE: 1/4" = 1'-0"



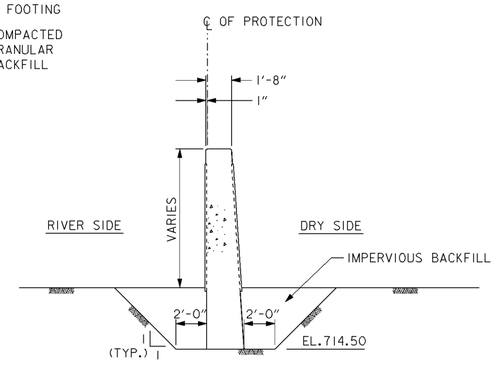
TYPICAL LEVEE SECTION
STA. 180+36.92 TO STA. 181+62.68

SCALE: 1/4" = 1'-0"



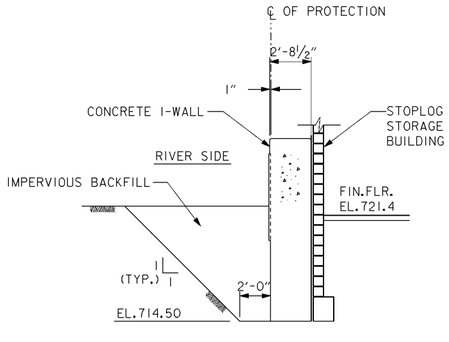
TYPICAL LEVEE SECTION
STA. 183+37.80 TO STA. 187+87.33

SCALE: 1/4" = 1'-0"



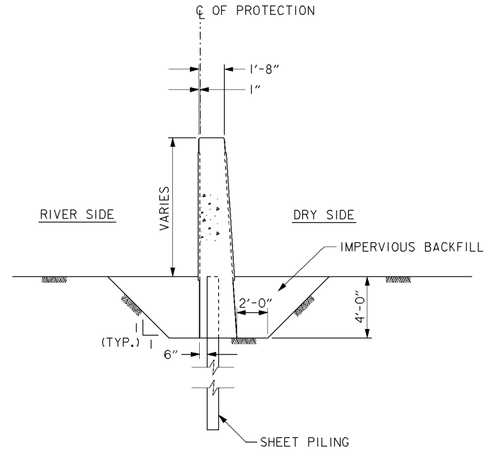
TYPICAL I-WALL SECTION
STA. 190+13.48 TO 190+40.04
STA. 193+00.93 TO 193+13.70

SCALE: 1/4" = 1'-0"



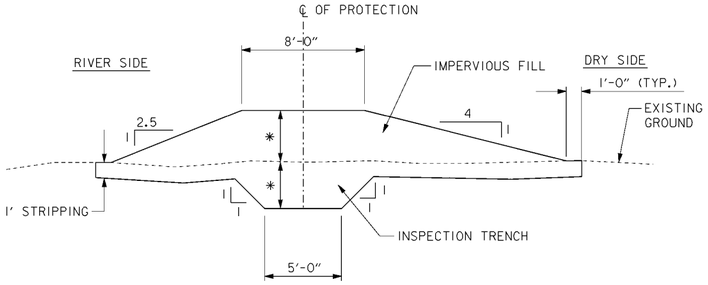
TYPICAL I-WALL SECTION
STA. 192+63.59 TO STA. 193+00.93

SCALE: 1/4" = 1'-0"



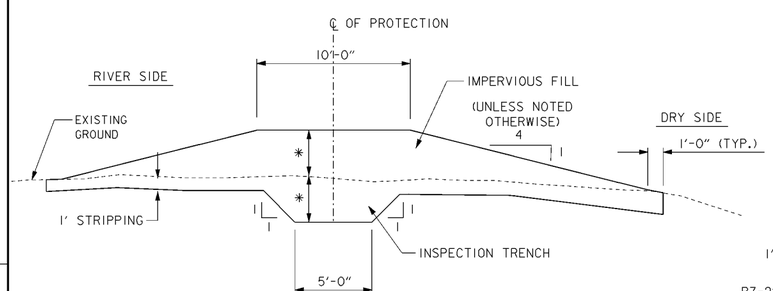
TYPICAL I-WALL SECTION
STA. 190+40.04 TO 190+70.91
STA. 192+11.91 TO 192+63.59

SCALE: 1/4" = 1'-0"



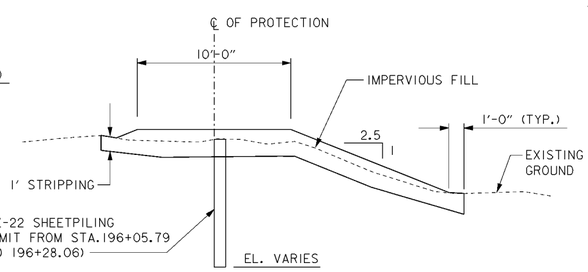
TYPICAL LEVEE SECTION
STA. 188+52.10 TO STA. 190+30.91

SCALE: 1/4" = 1'-0"



TYPICAL LEVEE SECTION
STA. 193+20.65 TO STA. 195+34.92

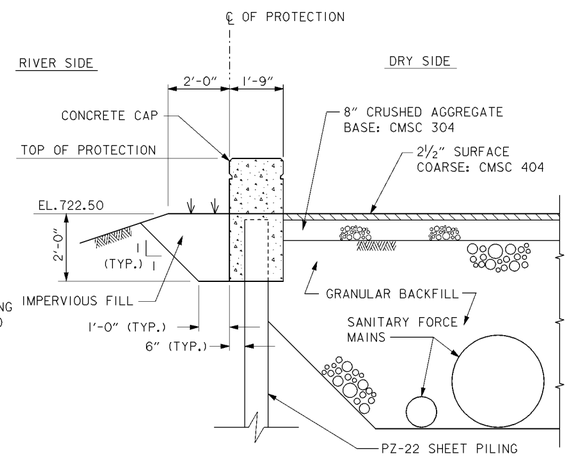
SCALE: 1/4" = 1'-0"



TYPICAL LEVEE SECTION
STA. 196+05.79 TO STA. 204+35.51

SCALE: 1/4" = 1'-0"

* DEPTH OF INSPECTION TRENCH SHALL EQUAL THE HEIGHT OF THE LEVEE ABOVE EXISTING GROUND, IN NO CASE SHALL THE INSPECTION TRENCH BE LESS THAN 3'-0".



TYPICAL CONCRETE CAP
STA. 204+67.70 TO STA. 212+99.30

SCALE: 1/2" = 1'-0"

NOTE: GRANULAR BACKFILL AND EXCAVATION ON DRY SIDE INCLUDED IN PRICE FOR SANITARY FORCE MAIN.

NOTES

1. 6-INCH TOPSOIL NOT SHOWN.
2. FOR ADDITIONAL TYPICAL FLOOD PROTECTION SECTIONS SEE DRAWING NO.20.3/1.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

FLOOD PROTECTION
TYP SECTIONS (2 OF 2)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.3/2
FILENAME: 00edts02.dgn
PEN TABLE:
Sheet 2 of 2

WORK AS CONSTRUCTED

HORIZONTAL ALIGNMENT DATA FOR FORCEMAIN

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		13+70.00	711456.059	1855941.749
( ) PI		14+06.32	711466.001	1855976.684
Tangent Direction:	N 74°06'54.10" E			
Tangent Length:	36.32			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		14+06.32	711466.001	1855976.684
( ) PI		15+65.99	711610.403	1856044.816
Tangent Direction:	N 25°15'32.24" E			
Tangent Length:	159.668			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		15+65.99	711610.403	1856044.816
( ) PI		16+68.17	711700.525	1856092.965
Tangent Direction:	N 28°06'50.45" E			
Tangent Length:	102.178			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		16+68.17	711700.525	1856092.965
( ) PI		17+69.31	711787.349	1856144.849
Tangent Direction:	N 30°51'41.60" E			
Tangent Length:	101.145			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		17+69.31	711787.349	1856144.849
( ) PI		18+94.96	711890.554	1856216.518
Tangent Direction:	N 34°46'38.66" E			
Tangent Length:	125.649			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		18+94.96	711890.554	1856216.518
( ) PI		19+99.67	711973.312	1856280.663
Tangent Direction:	N 37°46'44.22" E			
Tangent Length:	104.707			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		19+99.67	711973.312	1856280.663
( ) PI		20+59.09	712019.209	1856318.403
Tangent Direction:	N 39°25'46.70" E			
Tangent Length:	59.421			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		20+59.09	712019.209	1856318.403
( ) PI		21+58.34	712091.452	1856386.453
Tangent Direction:	N 43°17'17.11" E			
Tangent Length:	99.246			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		21+58.34	712091.452	1856386.453
( ) PI		23+66.74	712238.725	1856533.906
Tangent Direction:	N 45°02'05.97" E			
Tangent Length:	208.403			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		23+66.74	712238.725	1856533.906
( ) PI		24+73.09	712286.238	1856629.058
Tangent Direction:	N 63°27'55.10" E			
Tangent Length:	106.355			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		24+73.09	712286.238	1856629.058
( ) PI		25+95.54	712345.242	1856736.347
Tangent Direction:	N 61°11'28.45" E			
Tangent Length:	122.443			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		25+95.54	712345.242	1856736.347
( ) PI		27+85.74	712433.540	1856904.813
Tangent Direction:	N 62°20'22.71" E			
Tangent Length:	190.203			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		27+85.74	712433.540	1856904.813
( ) PI		29+94.14	712525.388	1857091.880
Tangent Direction:	N 63°50'57.95" E			
Tangent Length:	208.399			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		29+94.14	712525.388	1857091.880
( ) PI		30+58.73	712562.635	1857144.645
Tangent Direction:	N 54°46'53.75" E			
Tangent Length:	64.587			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		30+58.73	712562.635	1857144.645
( ) PI		31+99.48	712650.762	1857254.398
Tangent Direction:	N 51°14'13.25" E			
Tangent Length:	140.755			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		31+99.48	712650.762	1857254.398
( ) PI		32+74.44	712686.566	1857320.253
Tangent Direction:	N 61°28'04.76" E			
Tangent Length:	74.959			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		32+74.44	712686.566	1857320.253
( ) PI		33+22.43	712696.236	1857367.259
Tangent Direction:	N 78°22'31.36" E			
Tangent Length:	47.990			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		33+22.43	712696.236	1857367.259
( ) PI		34+46.87	712764.576	1857471.258
Tangent Direction:	N 56°41'24.78" E			
Tangent Length:	124.443			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		34+46.87	712764.576	1857471.258
( ) PI		34+64.05	712781.394	1857474.738
Tangent Direction:	N 11°41'26.60" E			
Tangent Length:	17.174			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		34+64.05	712781.394	1857474.738
( ) PI		35+34.63	712821.009	1857533.151
Tangent Direction:	N 55°51'19.25" E			
Tangent Length:	70.579			

Element: LINEAR		STATION	NORTH(Y)	EAST(X)
( ) PI		35+34.63	712821.009	1857533.151
( ) PI		35+50.00	712817.415	1857548.096
Tangent Direction:	S 76°28'45.07" E			
Tangent Length:	14.970			

NOTES

1. FOR CENTERLINE FORCEMAIN PLAN SEE DRAWING NOS. 20.4/1 THRU 20.4/7.
2. FOR CENTERLINE OF PROTECTION PLAN SEE DRAWING NOS. 16/1 THRU 16/13.

Revisions			
Symbol	Descriptions	Date	Approved
⚠	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4/23/98	

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIECTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: JRE
Checked by: GPS
Reviewed by: PFO
Approved by: AJS

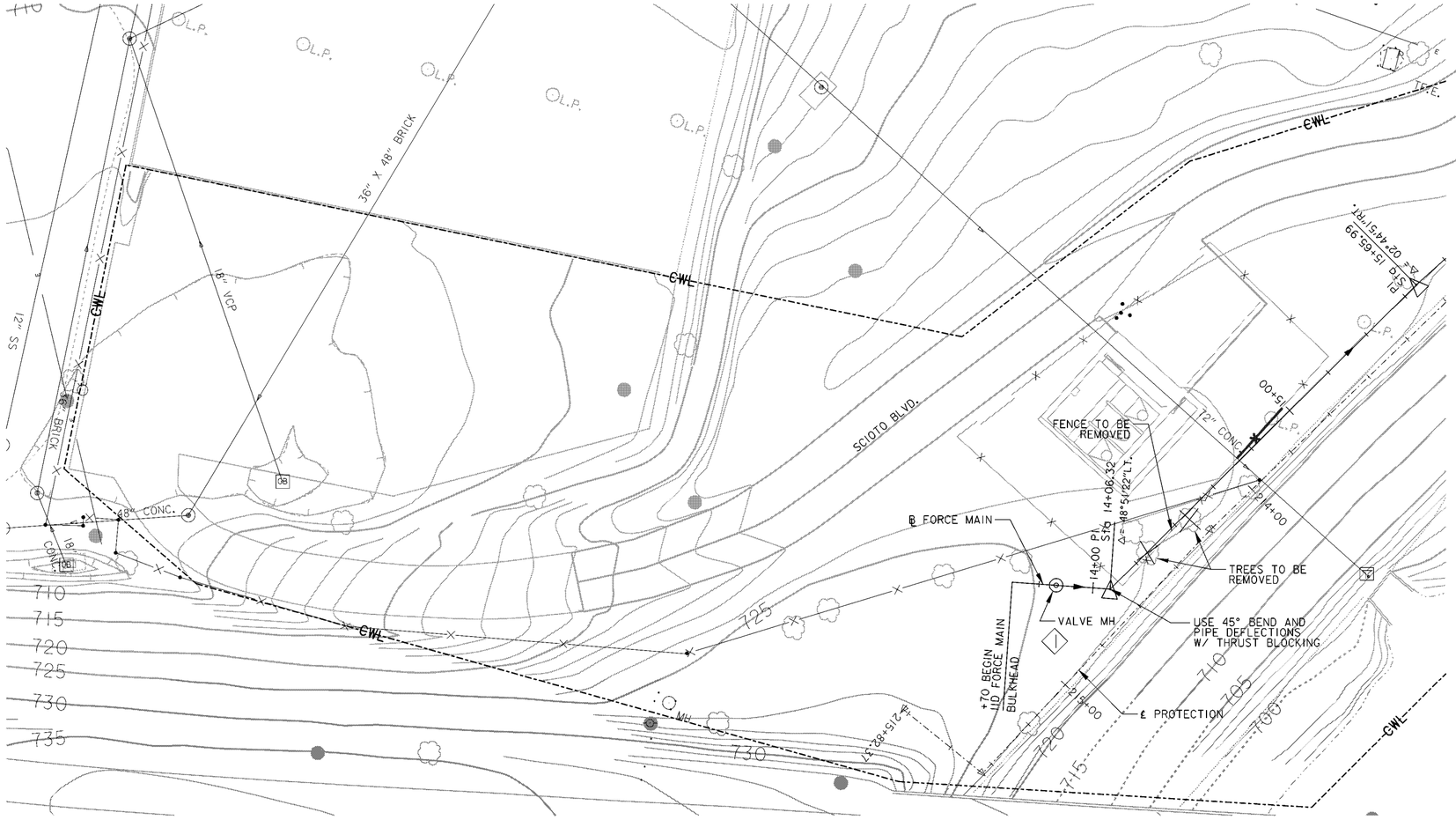
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HORIZONTAL ALIGNMENT DATA (FORCE MAIN)

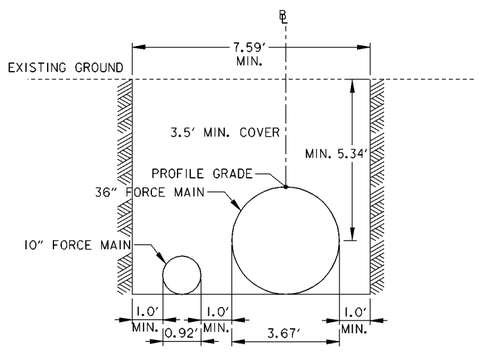
Scale:
Date: MARCH 1998
Drawing Code: 016-PWC-10
Sheet reference number: 20.4/1
FILENAME: 00A0AT01.DGN
PEN TABLE:
Sheet 1 of 1

WORK AS CONSTRUCTED

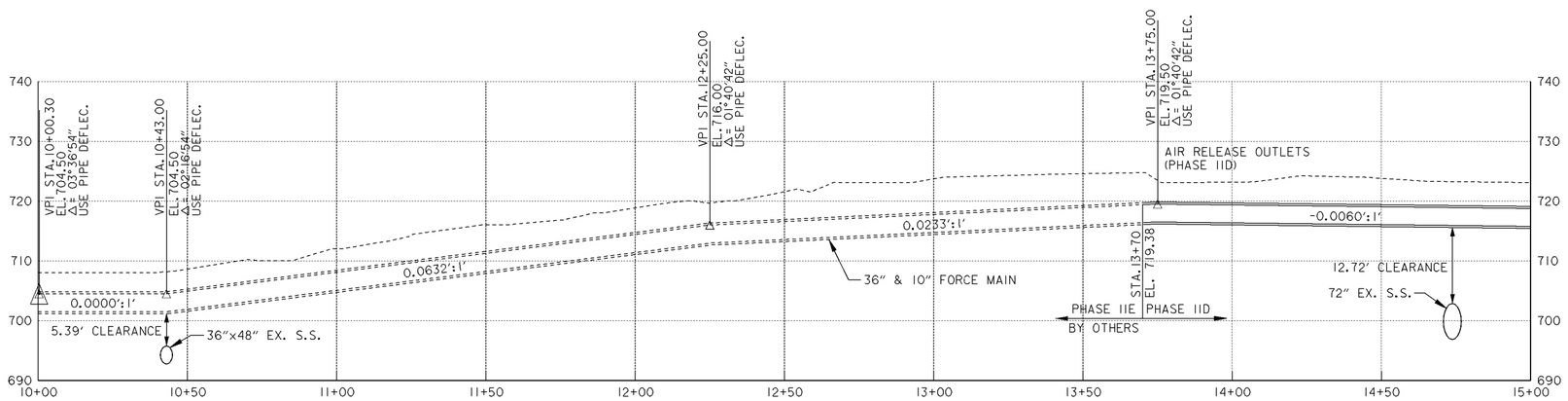


PLAN

SCALE: 1" = 20'



TYPICAL TRENCH SECTION ◇1
N.T.S.



PROFILE

SCALE IN FEET

NOTES

1. FOR THRUST BLOCK AND END OF PIPE (BULKHEAD) DETAILS SEE DRAWING NO. 20.5/6.
2. FOR THRUST BLOCK DETAILS SEE DRAWING NO. 20.5/6.
3. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
4. FOR ANY PIPE DEFLECTION OVER 1°, FULL BEVELED PIPE SHALL BE USED.

Revisions			
Symbol	Descriptions	Date	Approved
◇1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: TDW
Approved by: PFO

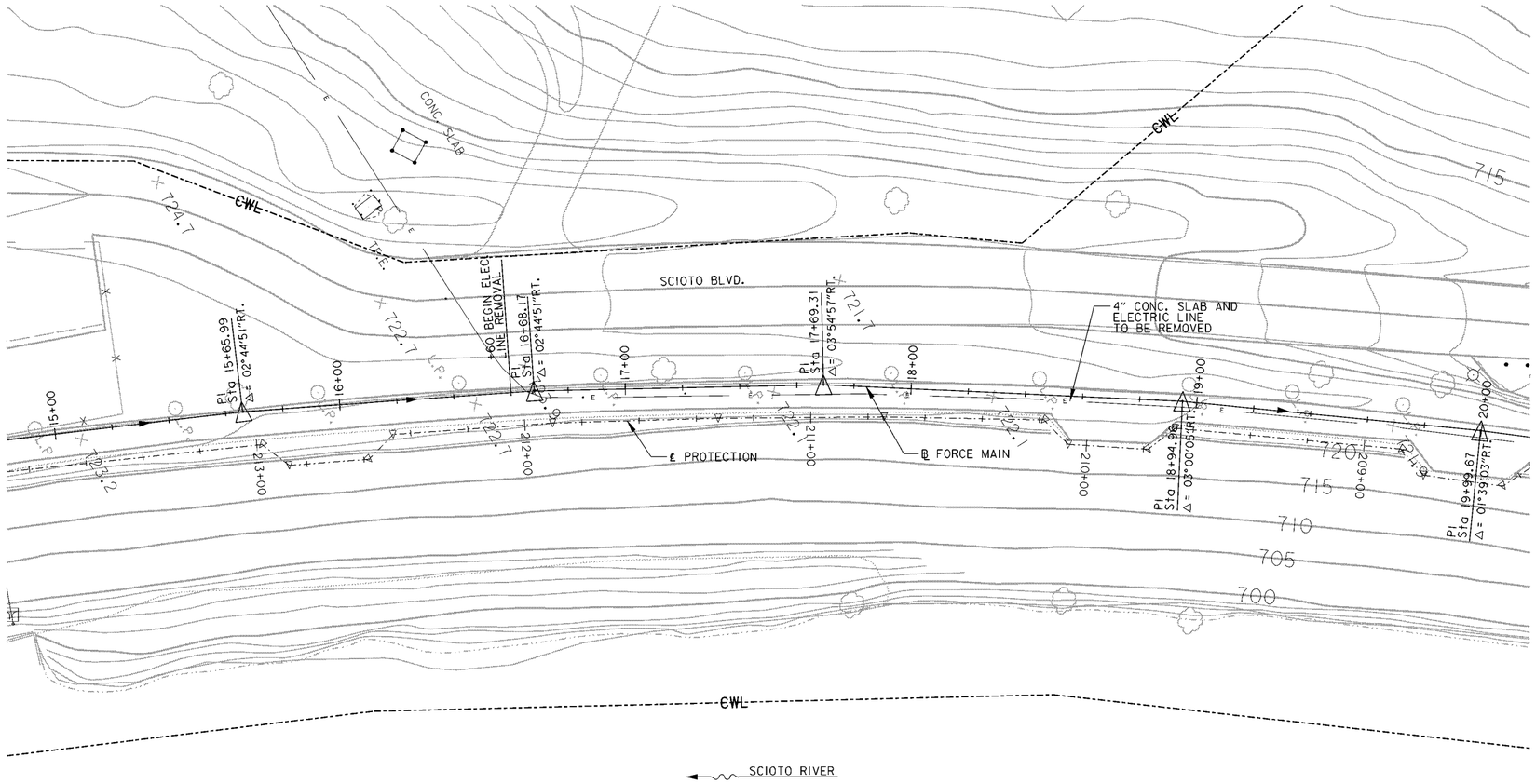
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IIE

PHASE IIE FORCE MAIN
DRY FLOW SEWER TO O.S.I.S.

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-11
Sheet reference number: 20.42
FILENAME: PBN TABLE: a0a0pp01.dgn
Sheet 1 of 6

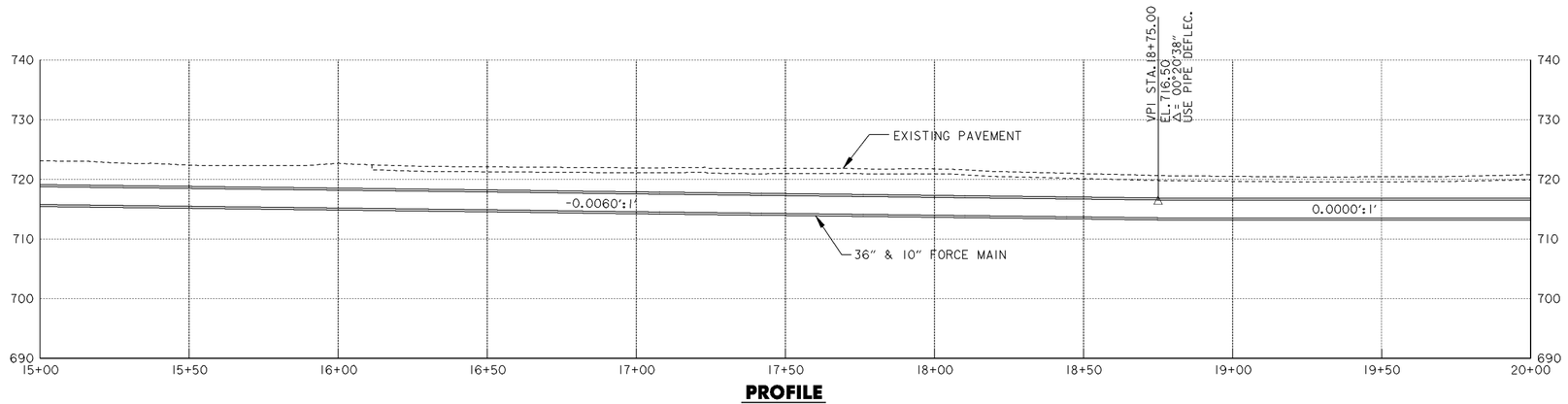
WORK AS CONSTRUCTED



PLAN

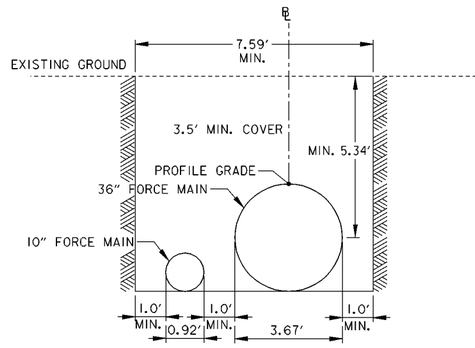
SCALE: 1" = 20'

20' 0 20'



PROFILE

SCALE IN FEET



TYPICAL TRENCH SECTION
N.T.S.

NOTES

1. UNDERGROUND ELECTRIC TO BE REMOVED FROM STA. 16+60 TO STA. 23+85 ℄ FORCEMAIN.
2. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
3. EXISTING LIGHTING AND RETAINING WALL TO REMAIN.
4. FOR ANY PIPE DEFLECTION OVER 1°, FULL BEVELED PIPE SHALL BE USED.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: TDW
Approved by: PFO

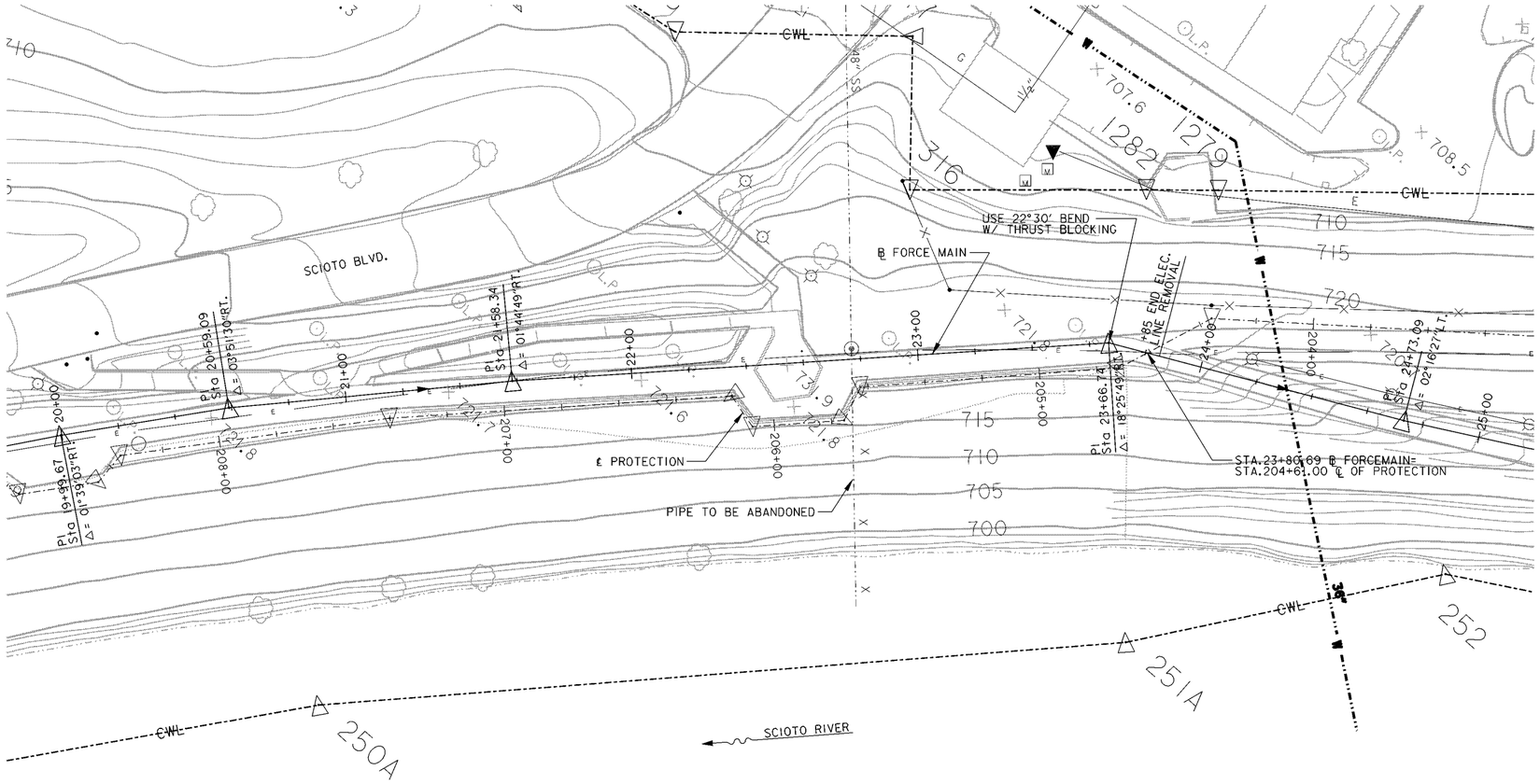
US Army Corps of Engineers

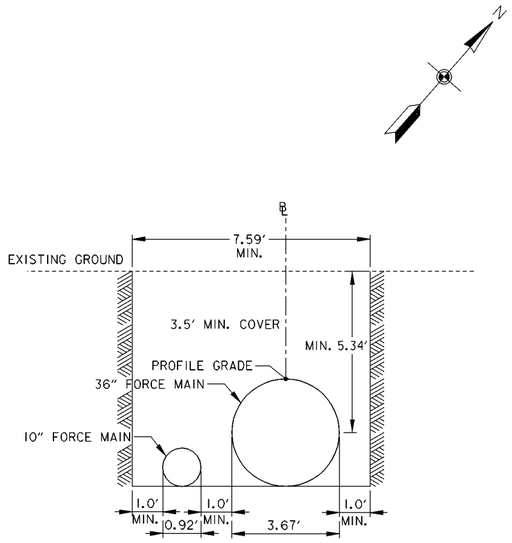
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IIE

PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-11
Sheet reference number: 20.43
FILENAME: a0a0pp02.dgn
PEN TABLE:
Sheet 2 of 6

WORK AS CONSTRUCTED





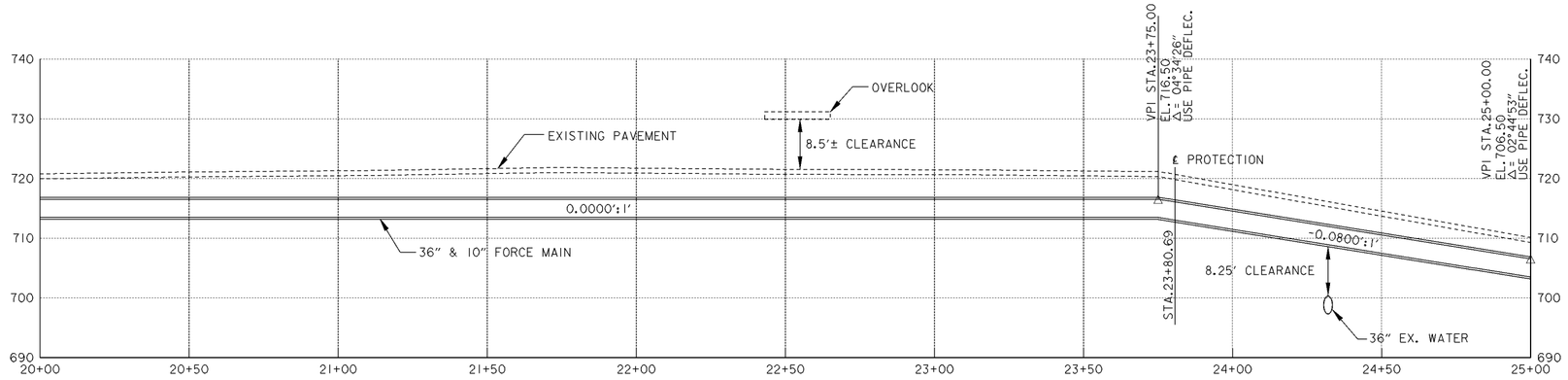
TYPICAL TRENCH SECTION ◇1
N.T.S.

NOTES

1. UNDERGROUND ELECTRIC TO BE REMOVED FROM STA.16+60 TO STA.23+85 ℄ FORCEMAIN.
2. FOR THRUST BLOCK DETAILS SEE DRAWING NO. 20.5/6.
3. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
4. EXISTING LIGHTING AND RETAINING WALL TO REMAIN.
5. FOR WALKWAY PLANS SEE DRAWING NOS. 20.5/1 THRU 20.5/4.
6. FOR SHEET PILING DETAILS SEE DRAWING NO. 20.1/14.
7. FOR ANY PIPE DEFLECTION OVER 1°, FULL BEVELED PIPE SHALL BE USED.

PLAN

SCALE: 1" = 20′



PROFILE

SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved
◇1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: TDW
Approved by: PFO

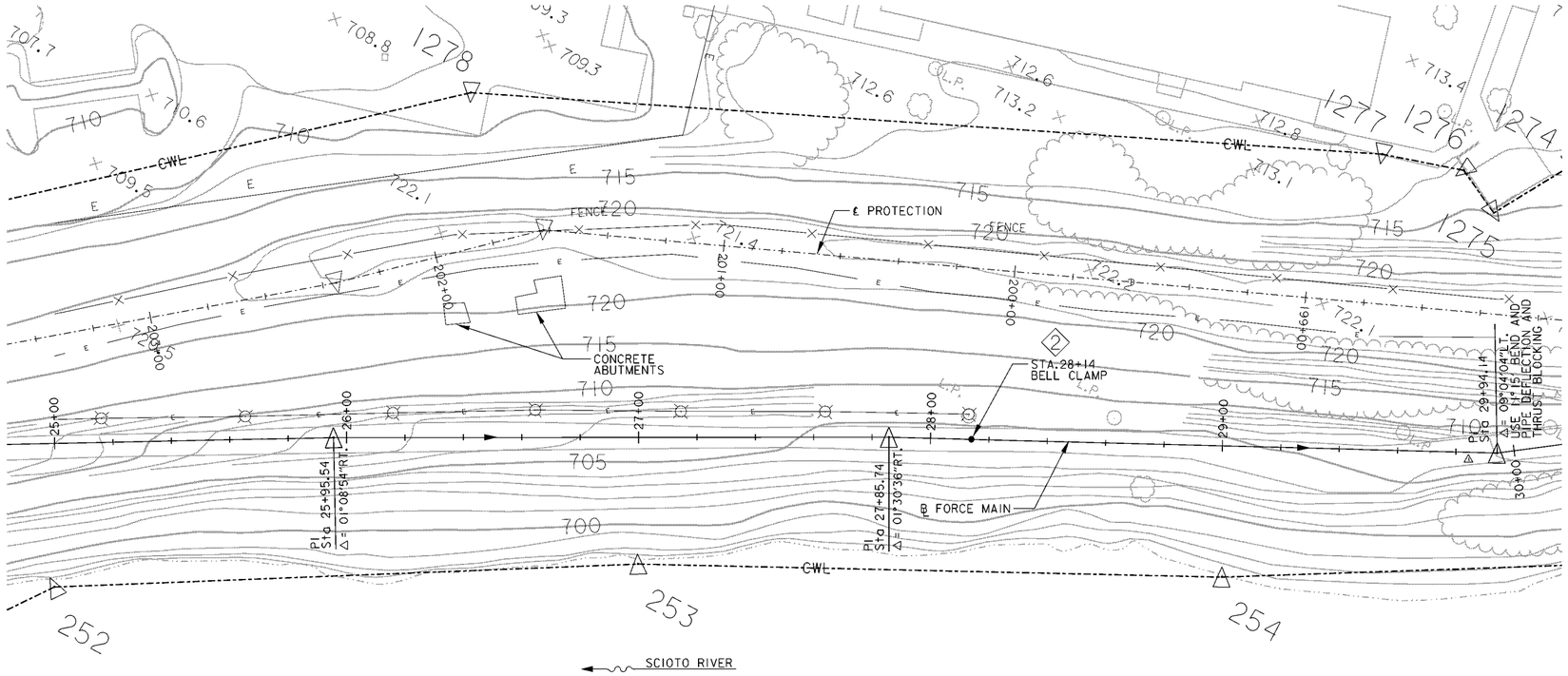
US Army Corps of Engineers

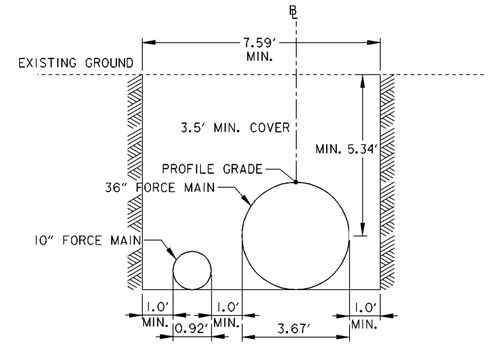
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IIE

PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-11
Sheet reference number: 20.44
FILENAME: PRN TABLE: c0a0pp03.dgn
Sheet 3 of 6

WORK AS CONSTRUCTED

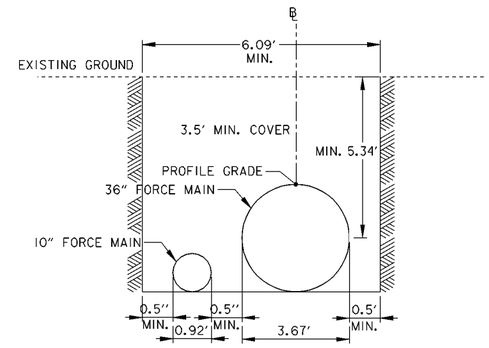




TYPICAL TRENCH SECTION ◇2

STA. 25+00 TO 29+50

N.T.S.



△ **TYPICAL TRENCH SECTION** ◇2

STA. 29+50 TO 30+00

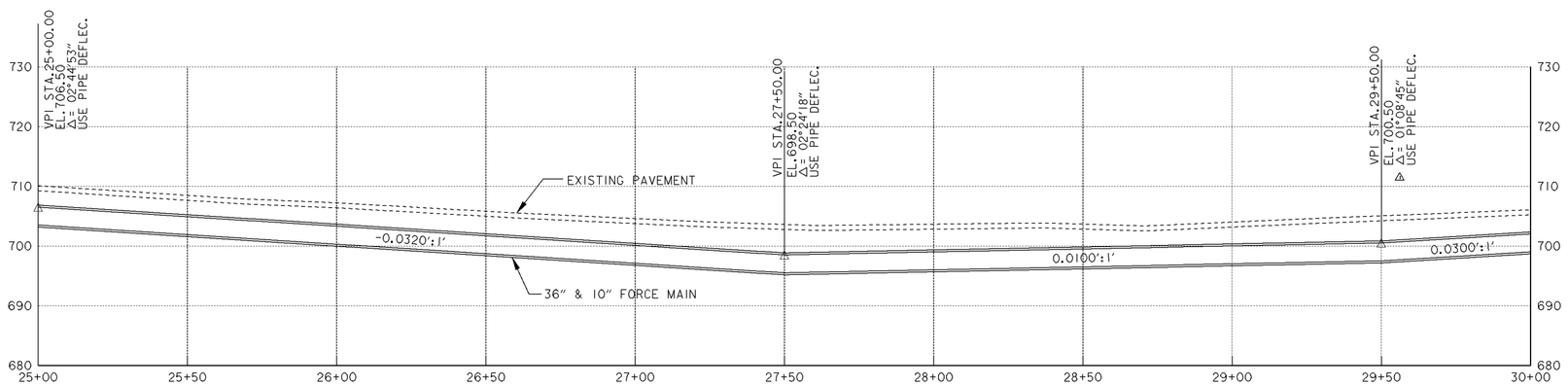
N.T.S.

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. EXISTING LIGHTING AND RETAINING WALL TO REMAIN.
3. FOR WALKWAY PLANS SEE DRAWING NOS. 20.5/1 THRU 20.5/4.
4. FOR ANY PIPE DEFLECTION OVER 1°, FULL BEVELED PIPE SHALL BE USED.

PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved
◇2	REVISED AS CONSTRUCTED	7/02	P.O.C.
△	REVISED IN ACCORDANCE WITH AMENDMENT 0001	42398	

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: PFO
Approved by: AJS

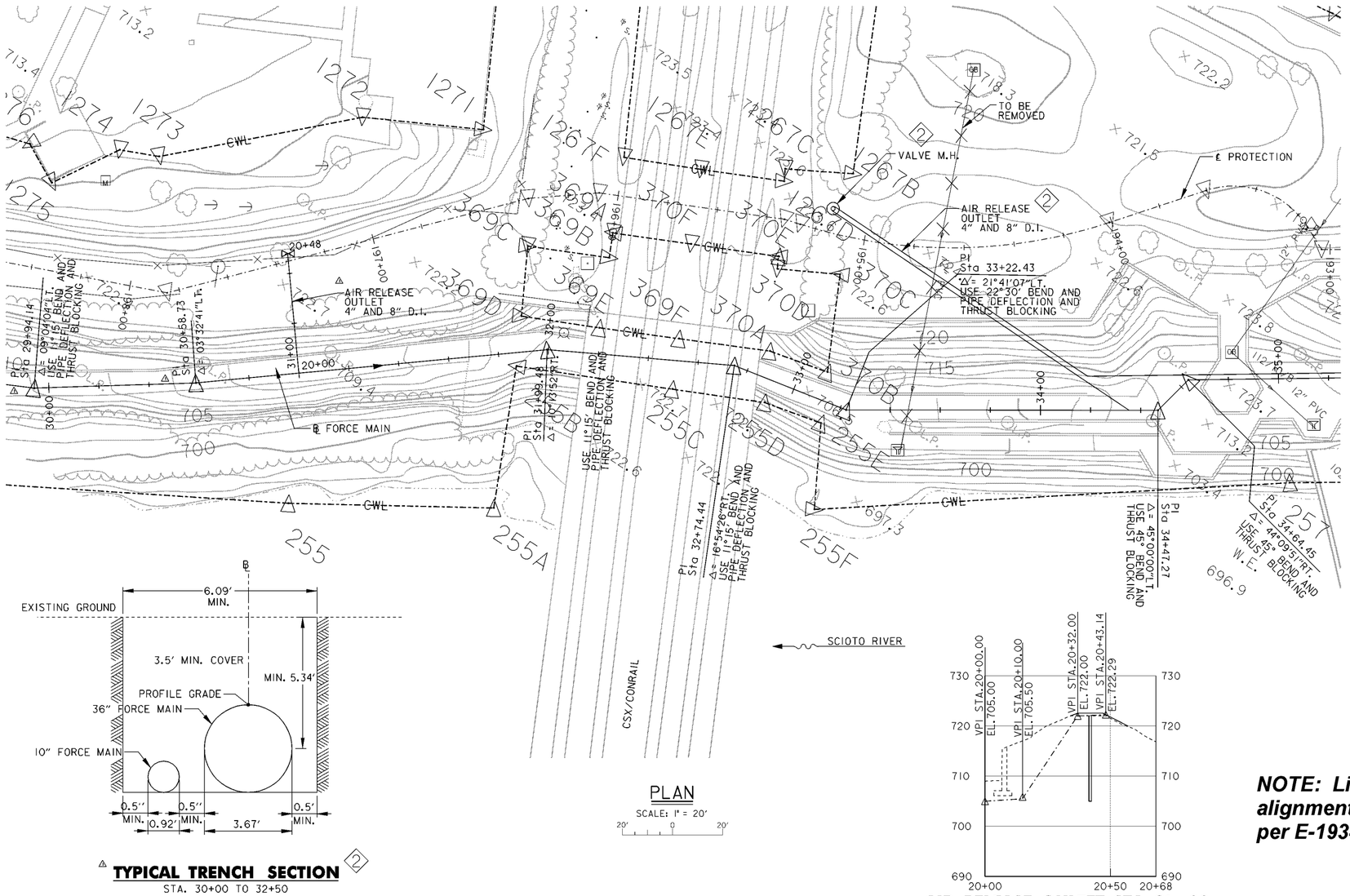
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.

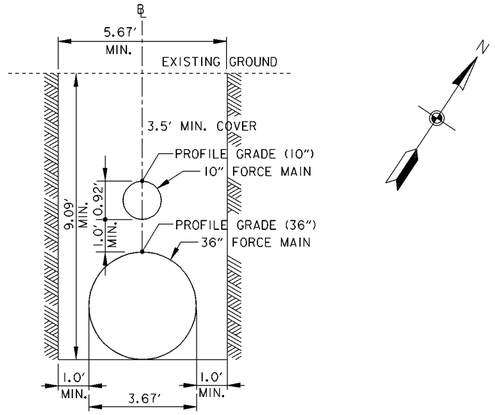
Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 016-PWC-10
Sheet reference number: 20.45
FILENAME: PEN TABLE: a0a0pp04.dgn
Sheet 4 of 6

WORK AS CONSTRUCTED



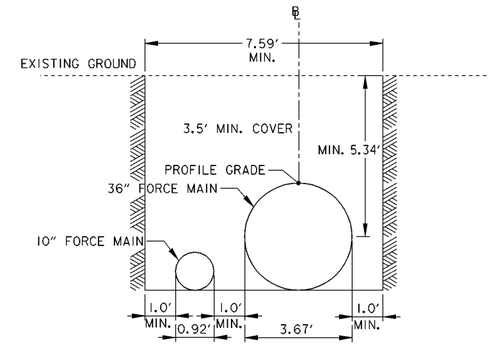
△ TYPICAL TRENCH SECTION ◇2

STA. 30+00 TO 32+50
N.T.S.



TYPICAL TRENCH SECTION

STA. 32+74.84 TO STA. 34+35.00
N.T.S.



TYPICAL TRENCH SECTION ◇2

STA. 34+60 TO 35+00
N.T.S.

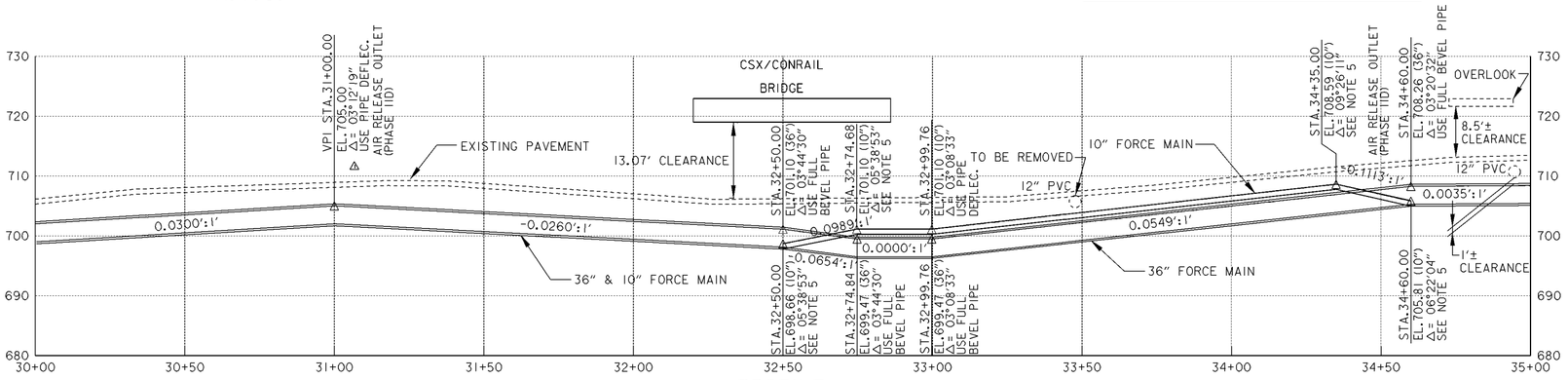
△ TYPICAL TRENCH SECTION ◇2

STA. 30+00 TO 32+50
N.T.S.

PLAN

SCALE: 1" = 20'

△ AIR RELEASE OULTET STA. 31+00



PROFILE

SCALE IN FEET

NOTE: Line of Protection alignment has been changed per E-1934 pgs. 88-94

NOTES

1. FOR THRUST BLOCK DETAIL SEE DRAWING NO. 20.5/6.
2. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
3. EXISTING LIGHTING AND RETAINING WALL TO REMAIN.
4. FOR WALKWAY PLANS SEE DRAWING NOS. 20.5/1 THRU 20.5/4.
5. USE 11°15' BEND AND PIPE DEFLECTION AND THRUST BLOCKING
6. FOR AIR RELEASE OUTLET DETAILS SEE DRAWING NO. 20.4/16
7. FOR ANY PIPE DEFLECTION OVER 1°, FULL BEVELED PIPE SHALL BE USED.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.
△	REVISED IN ACCORDANCE WITH AMENDMENT 0001	42398	

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

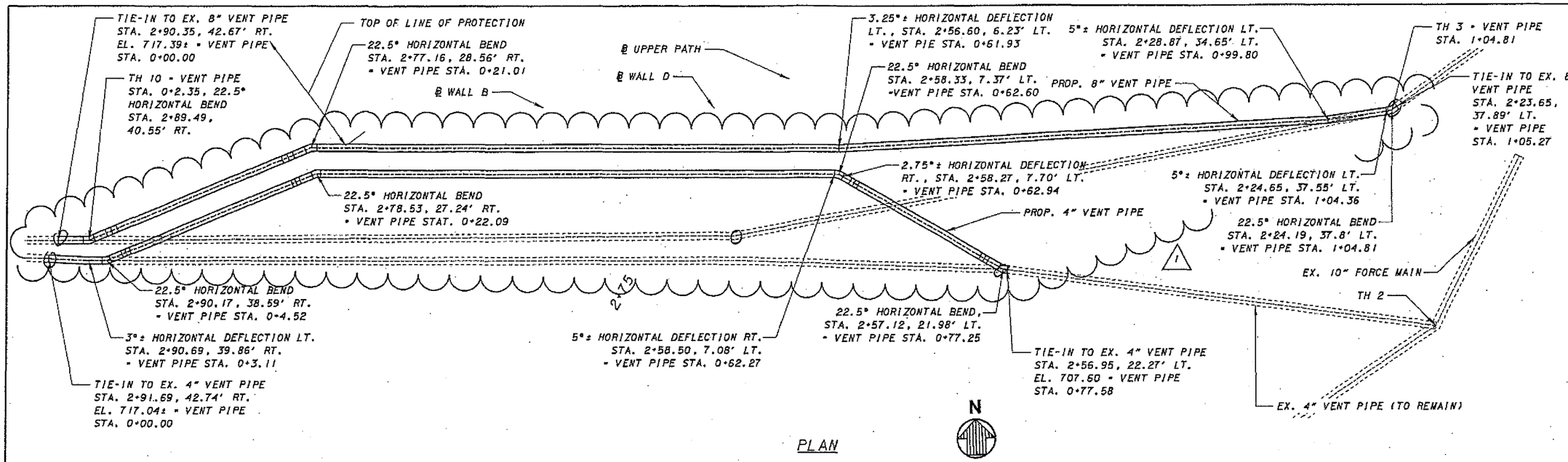
Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: PFO
Approved by: AJS

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

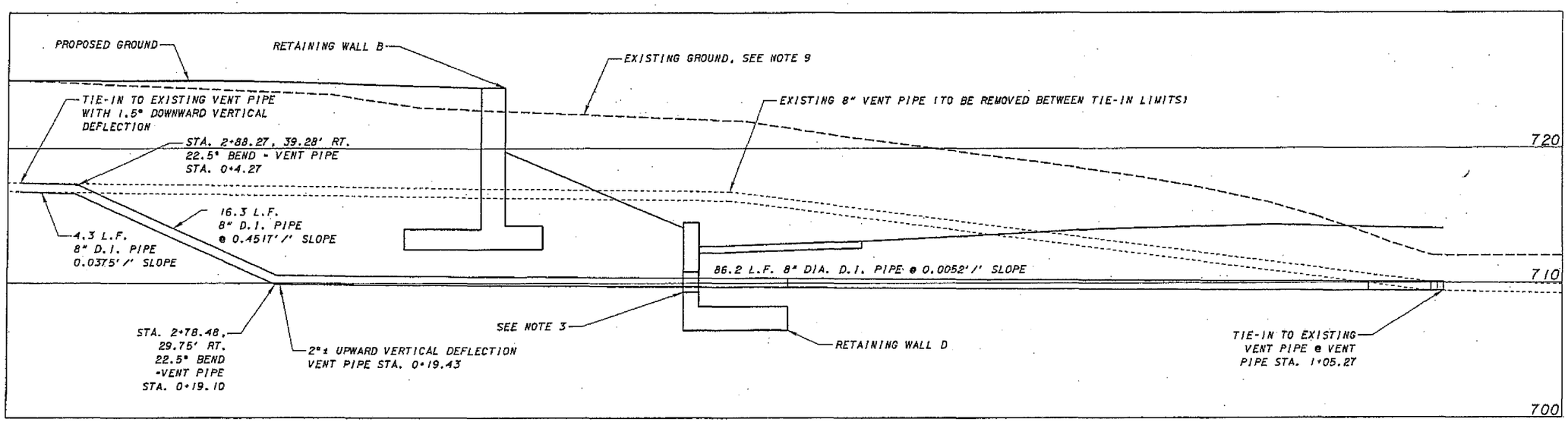
PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 016-PWC-10
Sheet reference number: 20.4/6
FILENAME: a0a0pp05.dgn
PEN TABLE:
Sheet 5 of 6

WORK AS CONSTRUCTED



PLAN



PROFILE ALONG ℄ PROPOSED 8" VENT PIPE

1

BENCHMARK

BENCHMARK - WEST END: EL. 712.67
CHIS " " IN CENTER OF CONC. PUMP ISLAND (PUMPS REMOVED) NORTH OF RICH STREET WEST OF STARLING

NOTES

1. STATIONS AND OFFSETS ARE BASED ON THE UPPER PATH ALIGNMENT SHOWN ON SHEET 91/299.
2. PROPOSED VENT PIPE ALIGNMENTS ARE BASED ON FIELD DATA PROVIDED BY SO-DEEP, DATED SEPTEMBER 25, 2006. ALL STATIONS AND ELEVATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE EXISTING VENT PIPES BEFORE STARTING THE REALIGNMENT WORK. ADJUSTMENTS WAY BE REQUIRED IN THE FIELD ONCE EXACT PIPE ALIGNMENTS ARE DETERMINED. PROVIDE THE CITY OF COLUMBUS WITH TIE-IN AND BEND STATIONS AND ELEVATIONS FOR THEIR AS-BUILT RECORDS.
3. PROVIDE AN 18" DIAMETER HOLE IN WALL D FOR THE 8" VENT PIPE. PROVIDE A 15" DIAMETER HOLE IN WALL D FOR THE 4" VENT PIPE. SEAL HOLES WITH NON-SHRINK GROUT FOR A WATERTIGHT FIT.
4. FOR 4" VENT PROFILE, SEE SHEET 111B/299.
5. FOR VENT PIPE QUANTITIES, SEE SHEET 111B/299.
6. FOR WALL B DETAILS, SEE SHEETS 114/299 THROUGH 116A/299.
7. FOR WALL D DETAILS, SEE SHEETS 119/299 THROUGH 121/299.
8. TH - TEST HOLE
9. EXISTING GROUND IS BASED ON FIELD SURVEY BY DLZ OHIO, INC. DATED NOVEMBER 2003.

THIS SHEET ADDED PER MIKE FOSTER

1 REVIVSED HORIZONTAL VENT PIPE ALIGNMENTS AND 8" VENT PIPE PROFILE DOR 11-07-08

1934 DR. E

DLZ

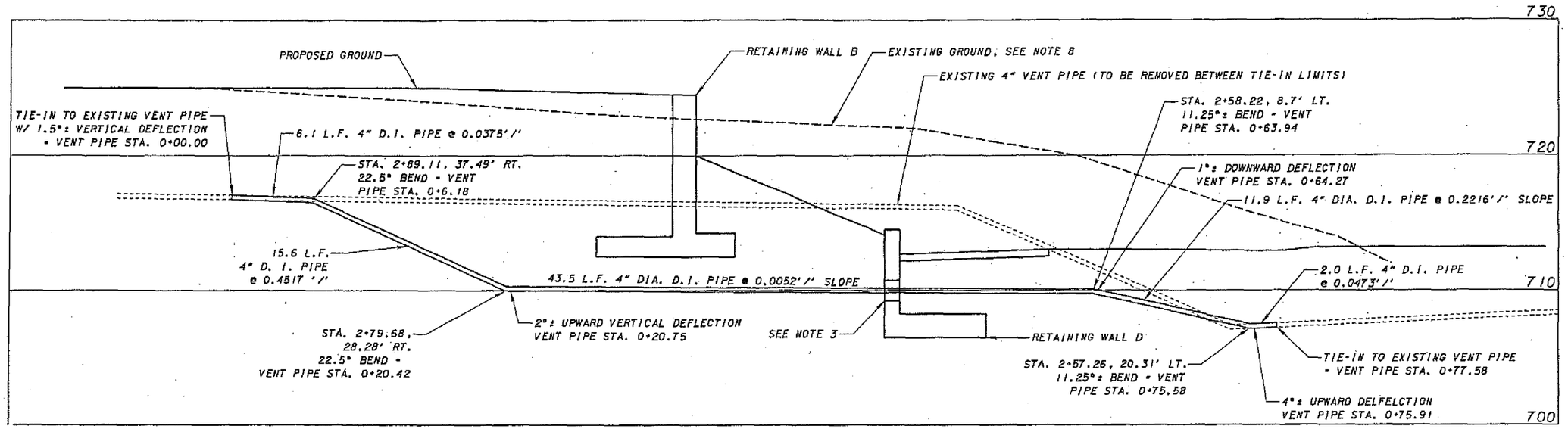
DESIGNED DOR
DRAWN DOR
CHECKED
REVISED
REVISED DOR 09-30-08
DATE
STRUCTURE FILE NUMBER

VENT PIPE REPLACEMENT PLAN
BRIDGE NO. FRA-62-1411
MAIN STREET OVER SCIOTO RIVER

FRA-62-14.11

111A
299

11/7/2008
4:43:18 PM
M:\Proj\0621\SII\02\Project Plans\Westbank Park\8 in Vent Pipe p&p-rr.dgn



PROFILE ALONG ℄ PROPOSED 4" VENT PIPE

1 REVISED 4" PIPE PROFILE DOR 11-07-08

ESTIMATED QUANTITIES

CALC. BY: DOR DATE: 09/25/08
CHKD. BY: DATE:

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION
202	34900	180	FT	PIPE REMOVED
603	00181	79	FT	4" CONDUIT, TYPE B, DUCTILE IRON PIPE, ANSI CLASS 53, MECHANICAL JOINTS AND FITTINGS, AS PER PLAN
603	01909	107	FT	8" CONDUIT, TYPE B, DUCTILE IRON PIPE, ANSI CLASS 53, MECHANICAL JOINTS AND FITTINGS, AS PER PLAN

1

BENCHMARK

BENCHMARK - WEST END: EL. 712.67 CHIS " " IN CENTER OF CONC. PUMP ISLAND (PUMPS REMOVED) NORTH OF RICH STREET WEST OF STARLING

NOTES

1. STATIONS AND OFFSETS ARE BASED ON THE UPPER PATH ALIGNMENT SHOWN ON SHEET 91/299.
2. PROPOSED VENT PIPE ALIGNMENTS ARE BASED ON FIELD DATA PROVIDED BY SO-DEEP, DATED SEPTEMBER 25, 2006. ALL STATIONS AND ELEVATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE EXISTING VENT PIPES BEFORE STARTING THE REALIGNMENT WORK. ADJUSTMENTS MAY BE REQUIRED IN THE FIELD ONCE EXACT PIPE ALIGNMENTS ARE DETERMINED. PROVIDE THE CITY OF COLUMBUS WITH TIE-IN AND BEND STATIONS AND ELEVATIONS FOR THEIR AS-BUILT RECORDS.
3. PROVIDE A 15" DIAMETER HOLE IN WALL D FOR THE 4" VENT PIPE. SEAL HOLE WITH NON-SHRINK GROUT FOR A WATERTIGHT FIT.
4. FOR 4" VENT PLAN, SEE SHEET 111A/299.
5. FOR WALL B DETAILS, SEE SHEETS 114/299 THROUGH 116A/299.
6. FOR WALL D DETAILS, SEE SHEETS 119/299 THROUGH 121/299.
7. ITEM 603 CONDUIT, TYPE B, DUCTILE IRON PIPE, ANSI CLASS 53, MECHANICAL JOINTS AND FITTINGS, AS PER PLAN: USE TYPE 3 BEDDING AND BACKFILL WITH NATURAL SOIL.
8. EXISTING GROUND IS BASED ON FIELD SURVEY BY DLZ OHIO, INC. DATED NOVEMBER 2003.

THIS SHEET ADDED PER MIKE FOSTER

1934 DR. E

DLZ

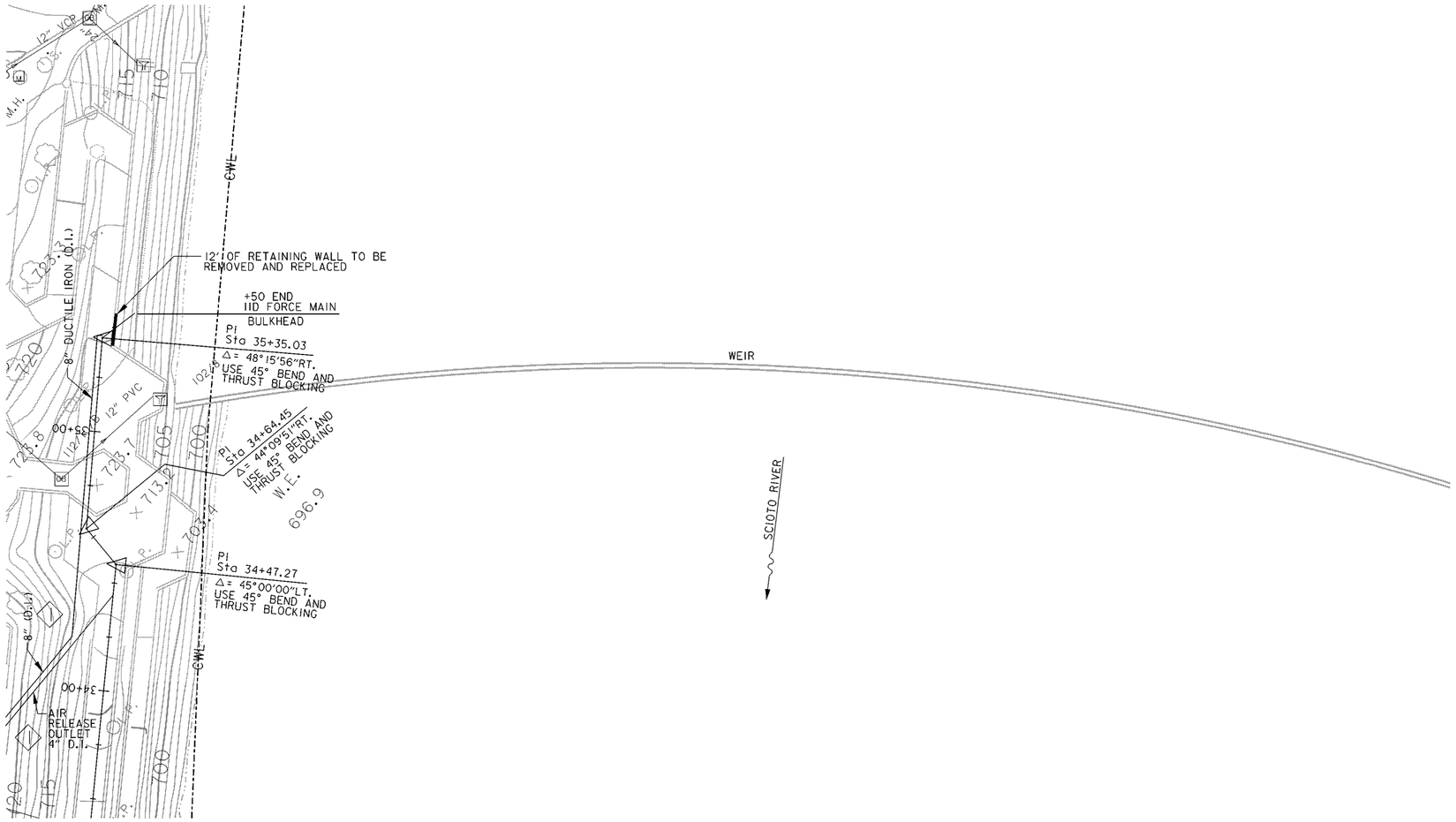
REVISED DOR 09-30-08 STRUCTURE FILE NUMBER
DRAWN DOR REVISED
DESIGNED DOR CHECKED

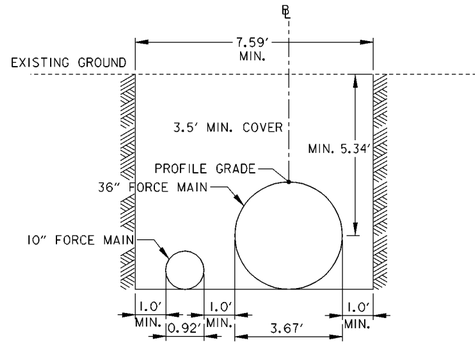
VENT PIPE QUANTITIES AND PROFILE
BRIDGE NO. FRA-62-1411
MAIN STREET OVER SCIOTO RIVER

FRA-62-14.11

111B
299

11/7/2008 4:12:49 PM M:\Proj\012\05\h\02\Project Plans\Westbank Park\Vent Pipe Profiles-rl.dgn





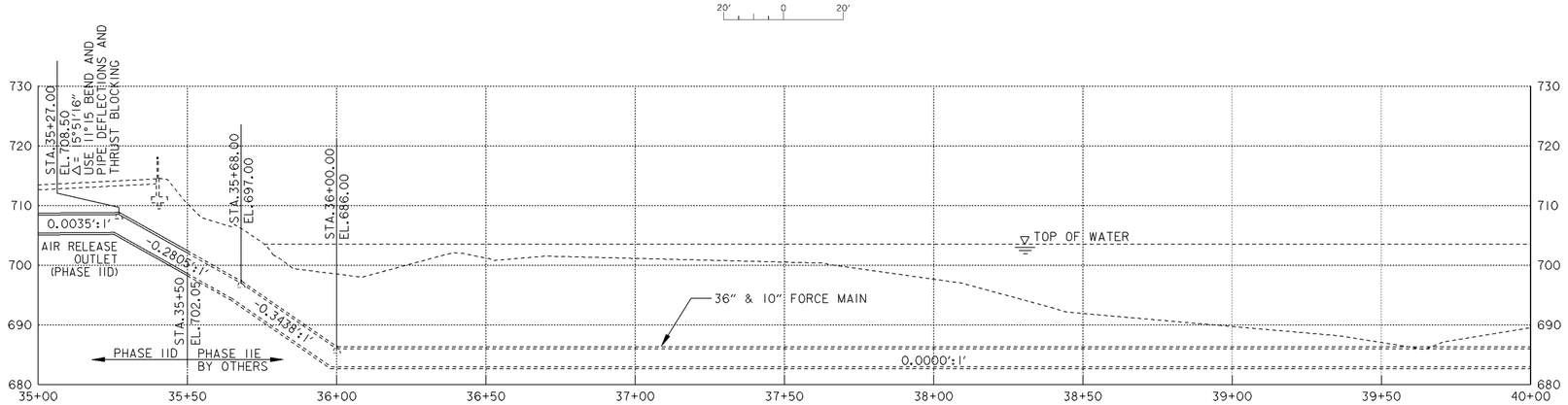
TYPICAL TRENCH SECTION ◇1
N.T.S.

NOTES

1. FOR THRUST BLOCK DETAIL SEE DRAWING NO. 20.5/6.
2. FOR THRUST BLOCK DETAILS OF PIPE (BULKHEAD) SEE DRAWING NO. 20.5/6.
3. FOR RETAINING WALL DETAILS SEE DRAWING NO. 20.5/5.
4. FOR AIR RELEASE OUTLET DETAIL SEE DRAWING NO. 20.4/16.
5. FOR ANY PIPE DEFLECTION OVER 1°, FULL BEVELED PIPE SHALL BE USED.

PLAN

SCALE: 1" = 20'
20' 0 20'



PROFILE

SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved
◇1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC. ENGINEERS-ARCHITECTS-SCIENTISTS COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: TDW
Approved by: PFO

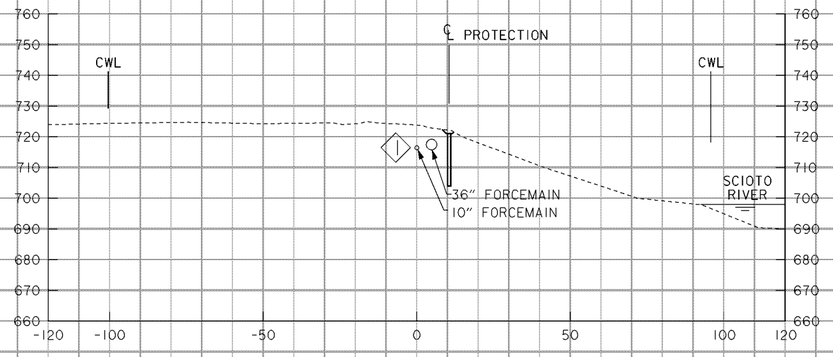
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IIE

PHASE IIE FORCE MAIN DRY FLOW SEWER TO O.S.I.S.

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-11
Sheet reference number: 20.47
FILENAME: a0a0pp06.dgn
PEN TABLE:
Sheet 6 of 6

WORK AS CONSTRUCTED



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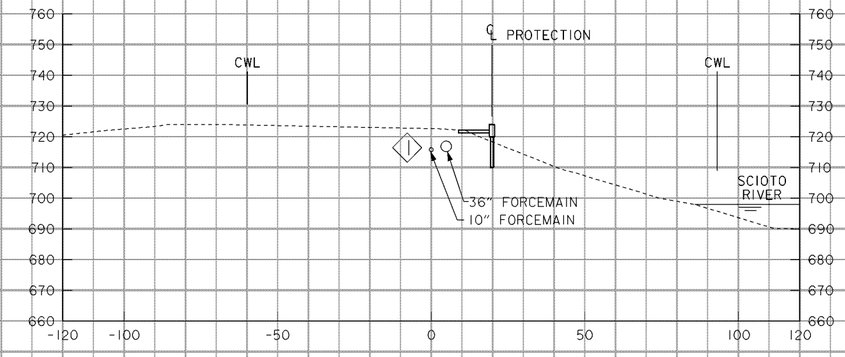

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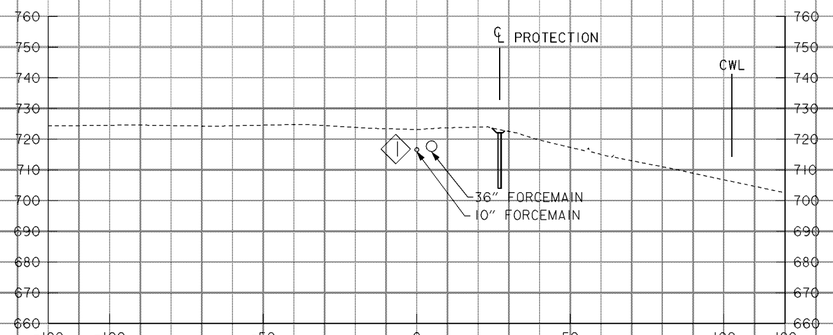

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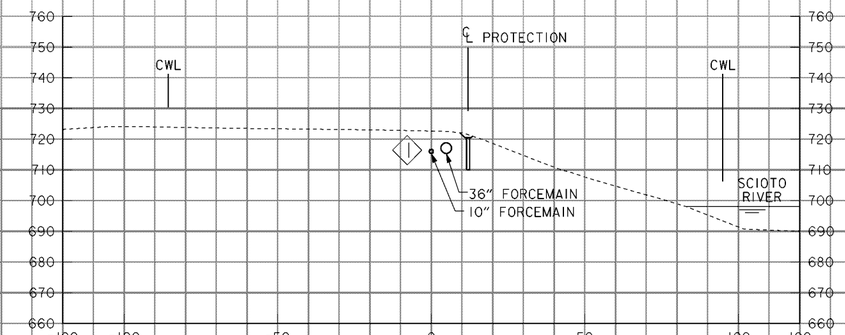

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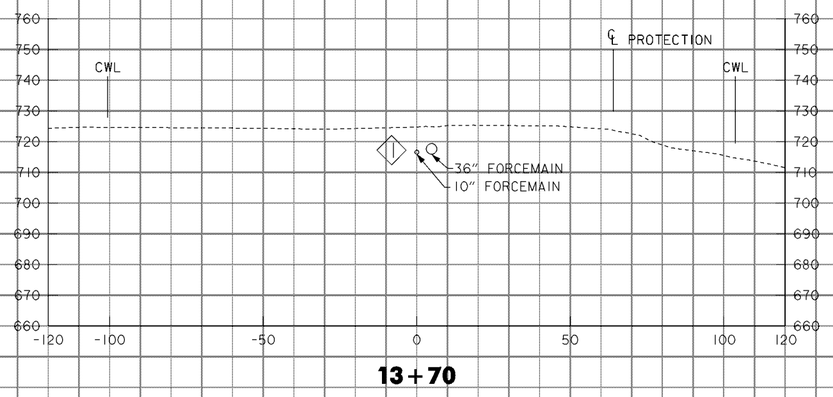

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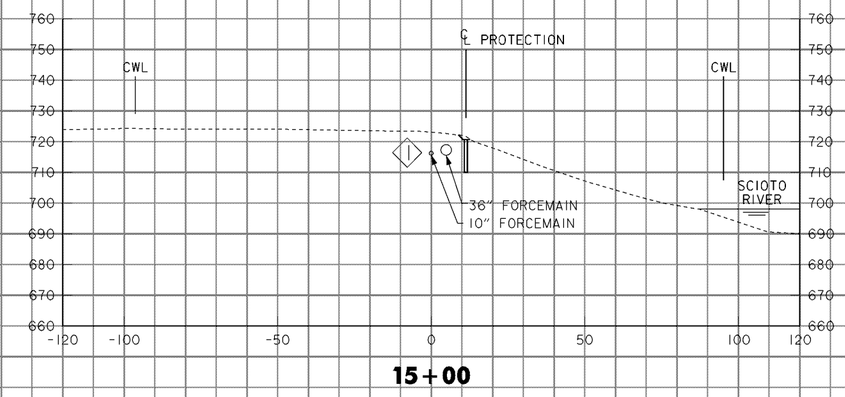


15+00

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. FOR RIVER BANK TREATMENT SEE DRAWING NOS. 20.2/24 AND 20.2/25.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JRE
Drawn by: RLG
Checked by: JDY
Reviewed by:
Approved by: AJS

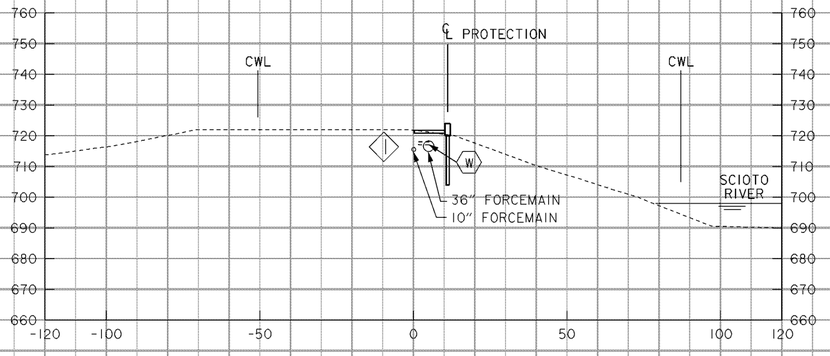
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

CROSS SECTIONS 13+70 TO 16+00

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-10
Sheet reference number: 20.48
FILENAME: c0a0cx01.dgn
PRN TABLE:
Sheet 1 of 8

WORK AS CONSTRUCTED



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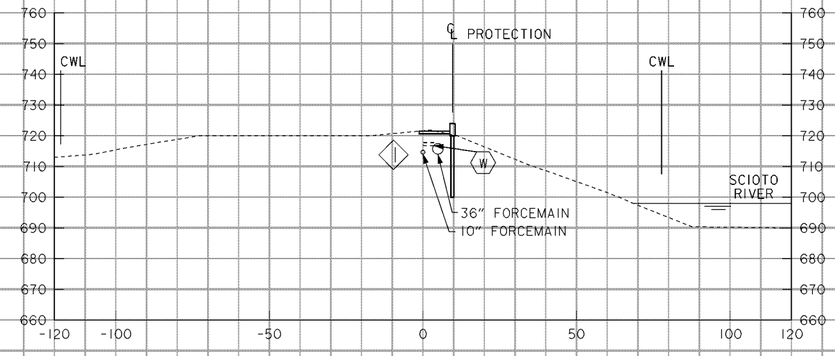

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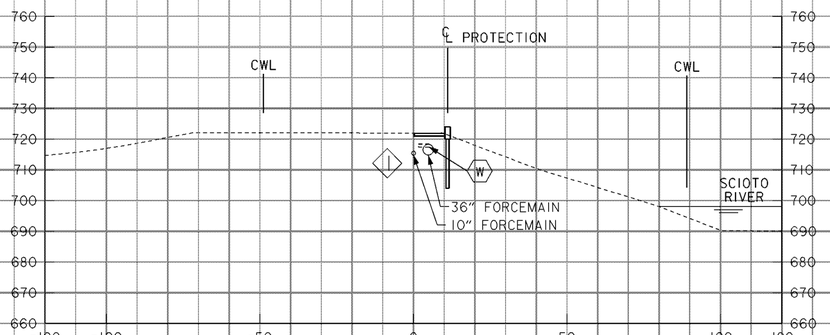

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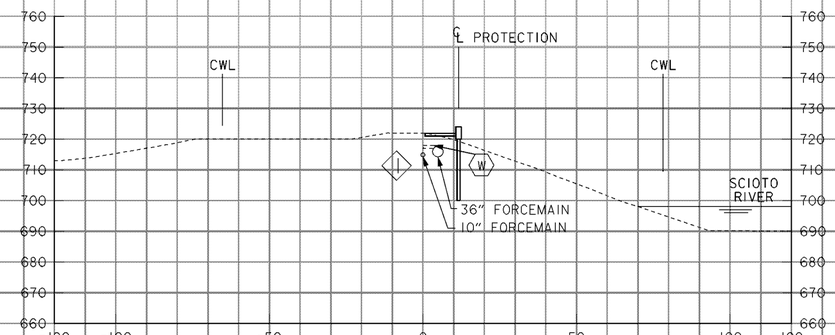

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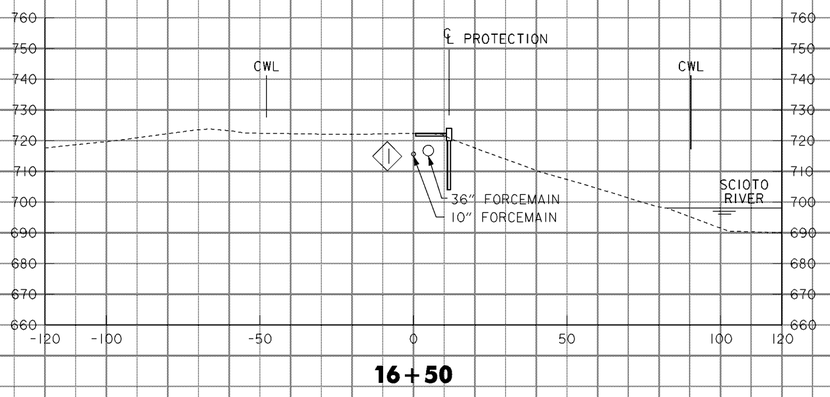

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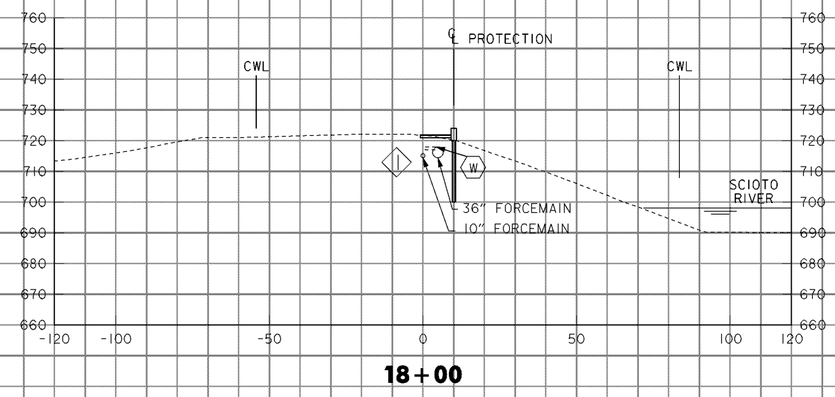


18+00

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. FOR RIVER BANK TREATMENT SEE DRAWING NOS. 20.2/24 AND 20.2/25.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JRE
Drawn by: RLG
Checked by: JDY
Reviewed by:
Approved by: AJS

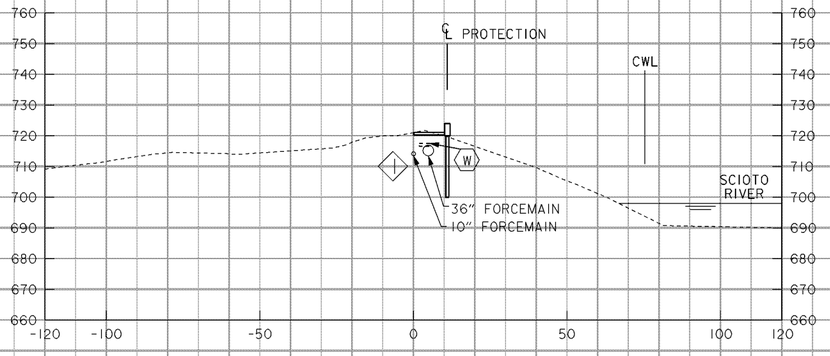
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

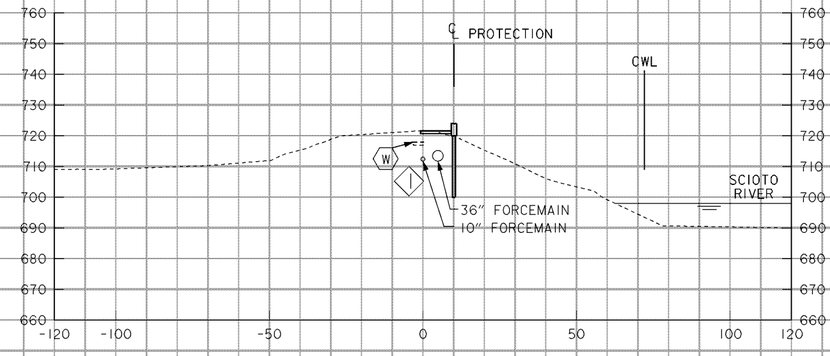
CROSS SECTIONS 16+50 TO 19+00

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-10
Sheet reference number: 20.49
FILENAME: c0a0cx02.dgn
PRN TABLE:
Sheet 2 of 8

WORK AS CONSTRUCTED



20+50



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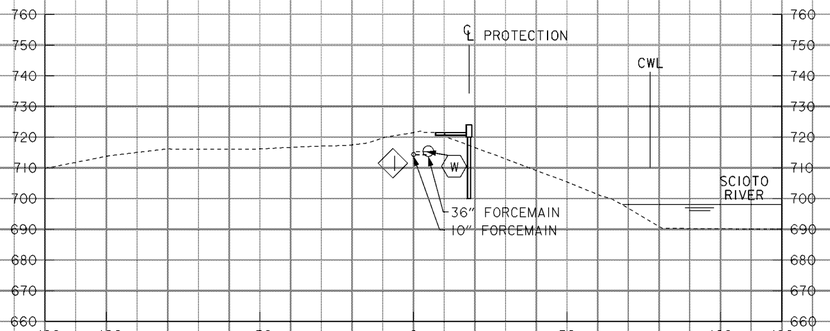

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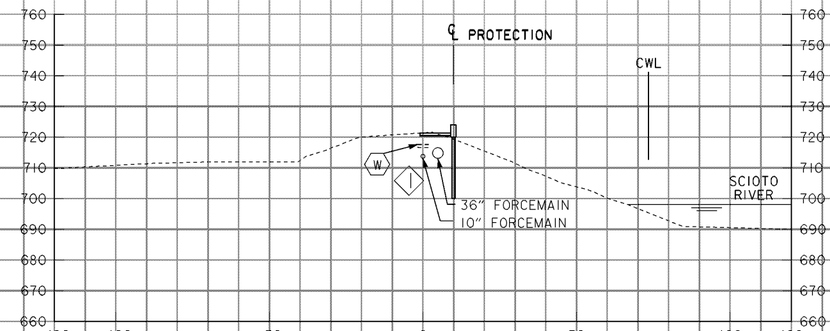
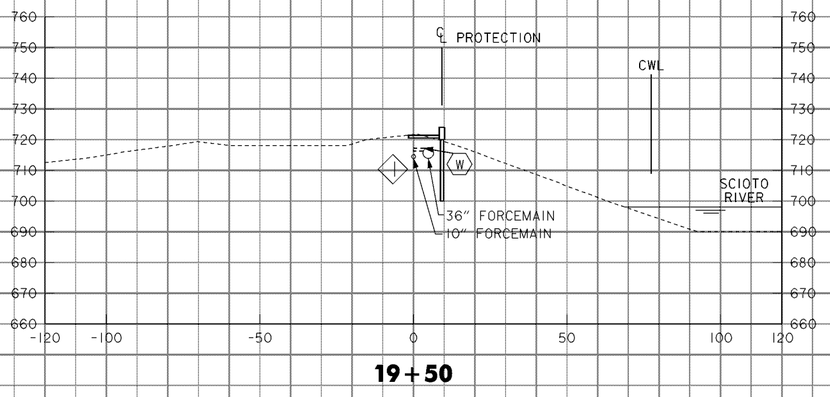


21+50

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. FOR RIVER BANK TREATMENT SEE DRAWING NOS. 20.2/24 AND 20.2/25.



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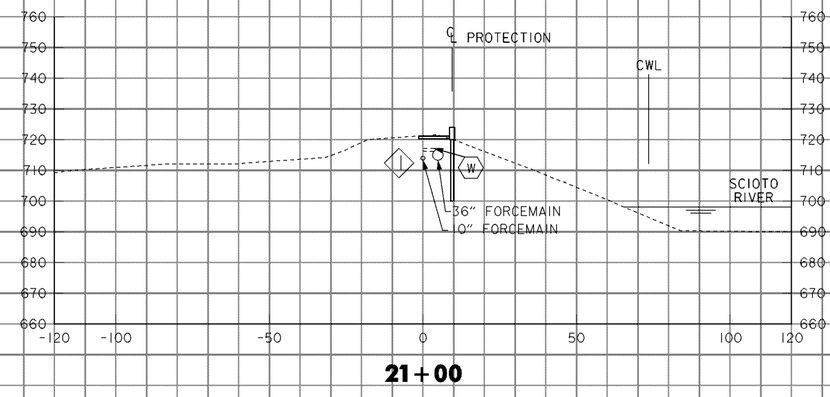


21+00

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JRE
Drawn by: RLG
Checked by: JDY
Reviewed by:
Approved by: AJS

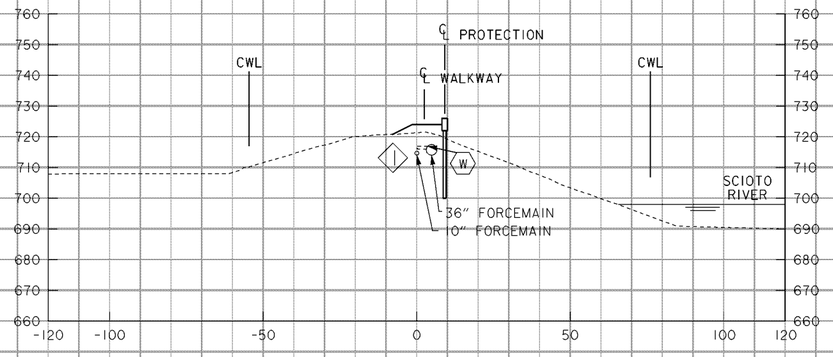
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

CROSS SECTIONS 19+50 TO 22+00

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-10
Sheet reference number: 20.4/10
FILENAME: c0a0cx03.dgn
PRN TABLE:
Sheet 3 of 8

WORK AS CONSTRUCTED



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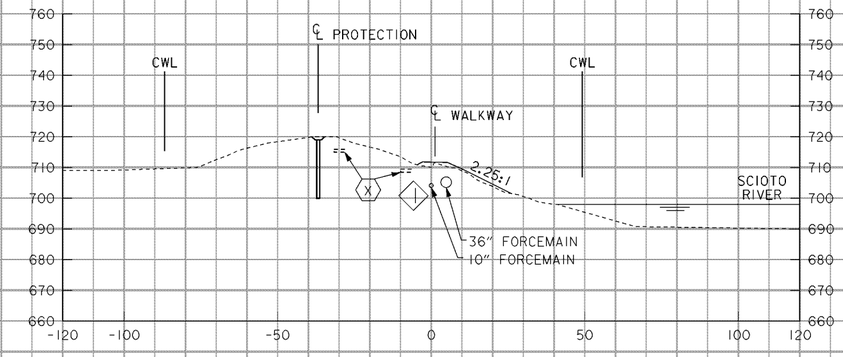

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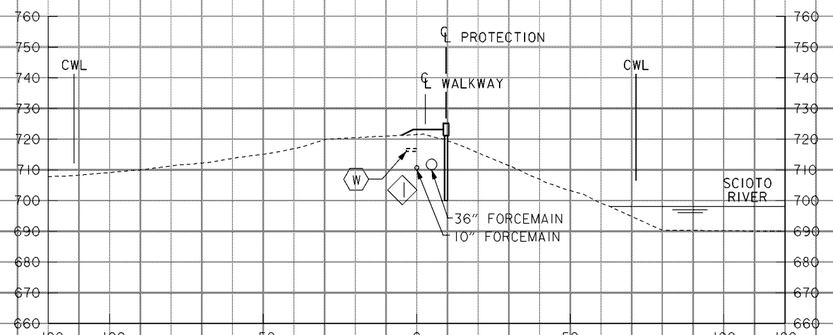

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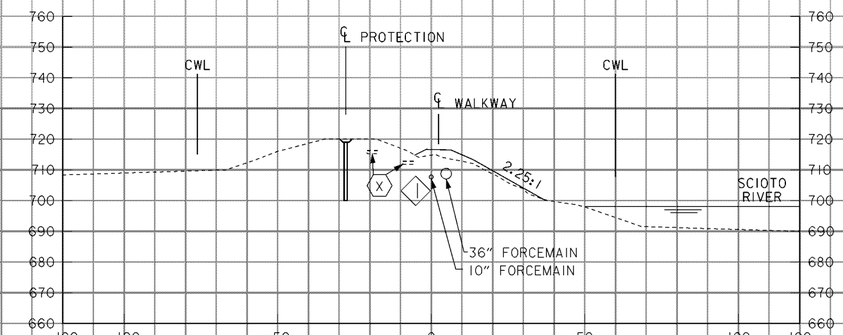

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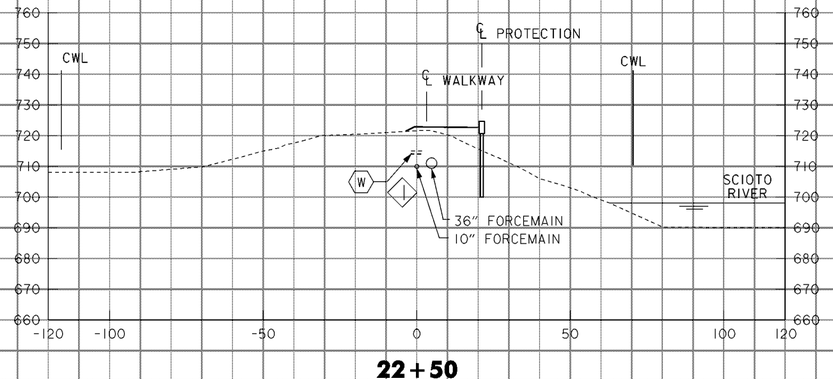

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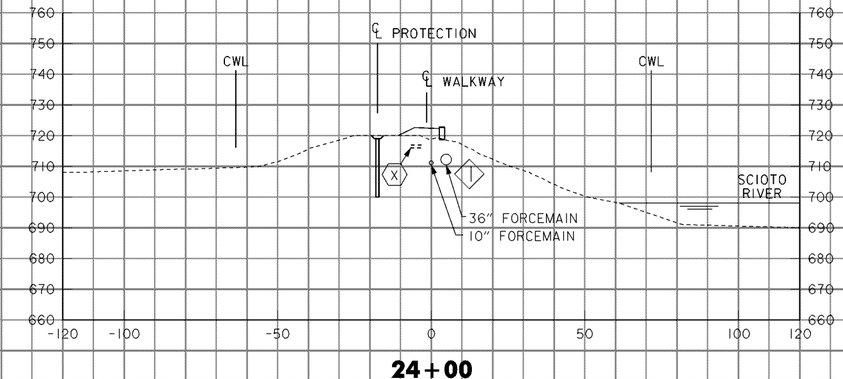


24+00

X EXISTING UNDERGROUND ELECTRIC

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. FOR WALKWAY PLAN SEE DRAWING NOS. 20.5/1 THRU 20.5/4.
3. FOR SHEETPILING DETAILS SEE DRAWING NO. 20.1/12.
4. FOR RIVER BANK TREATMENT SEE DRAWING NOS. 20.2/24 AND 20.2/25.
5. LEVEE WORK FROM STA. 24+00 TO 25+00 NOT SHOWN FOR ℄ PROTECTION.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JRE
Drawn by: RLG
Checked by: JDY
Reviewed by:
Approved by: AJS

US Army Corps of Engineers

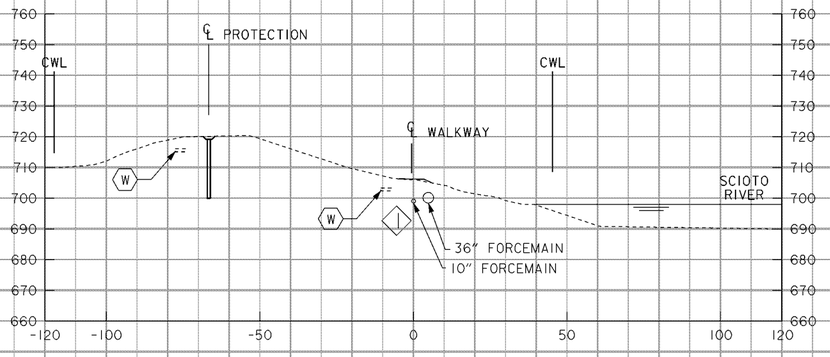
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

CROSS SECTIONS 22+50 TO 25+00

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-10
Sheet reference number: 20.4/11
FILENAME: c0a0cx04.dgn
PRN TABLE:
Sheet 4 of 8

WORK AS CONSTRUCTED

W EXISTING UNDERGROUND ELECTRIC



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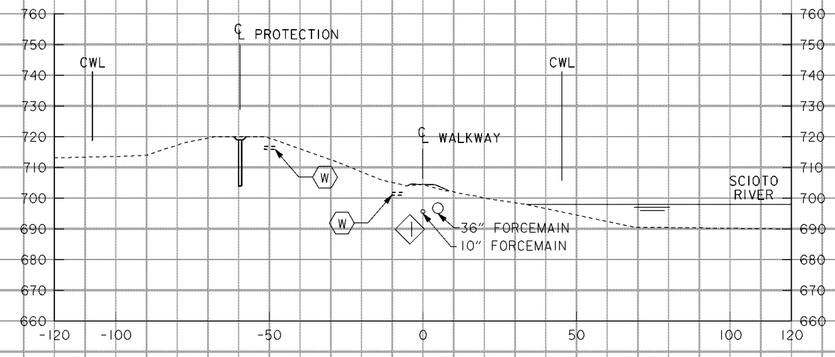

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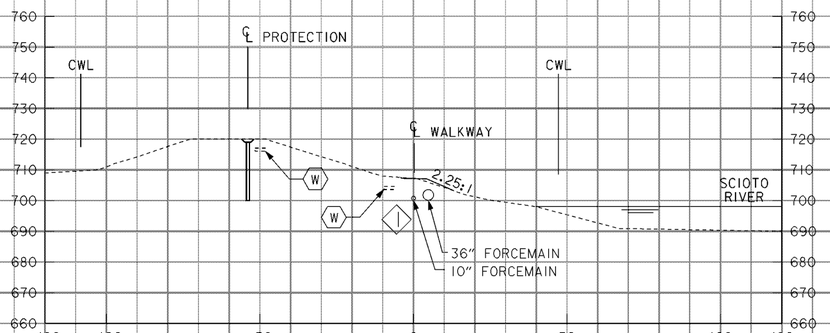

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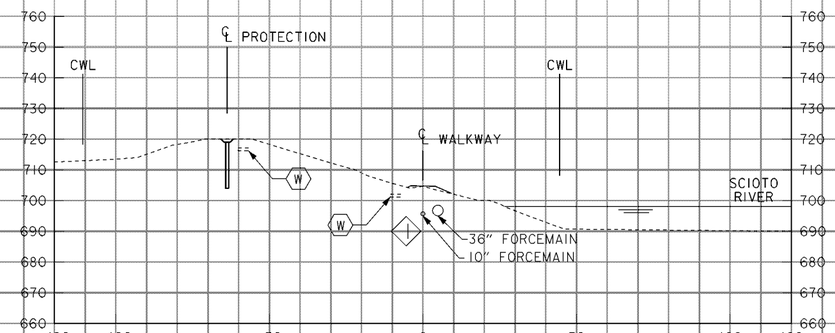

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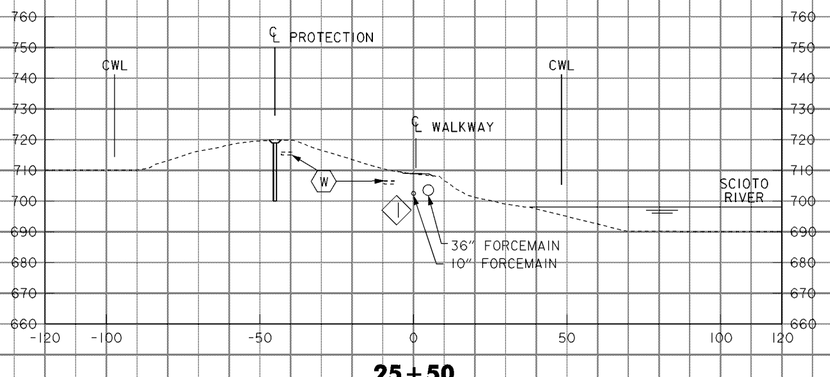

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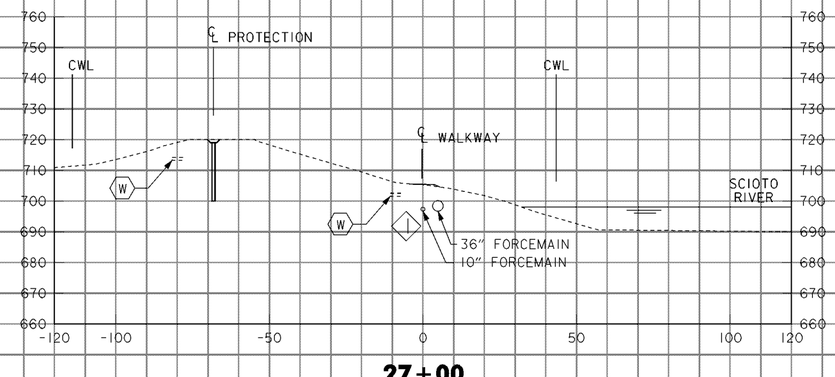


27+00

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. FOR WALKWAY PLAN SEE DRAWING NOS. 20.5/1 THRU 20.5/4.
3. LEVEE WORK NOT SHOWN FOR ℄ PROTECTION.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JRE
Drawn by: RLG
Checked by: JDY
Reviewed by:
Approved by: AJS

US Army Corps of Engineers

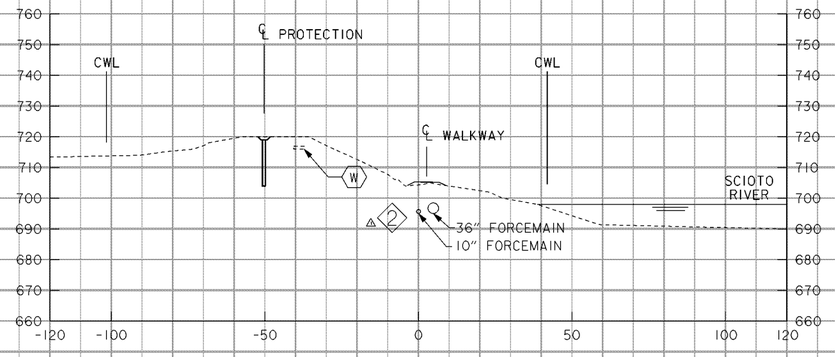
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

CROSS SECTIONS
25+50 TO 28+00

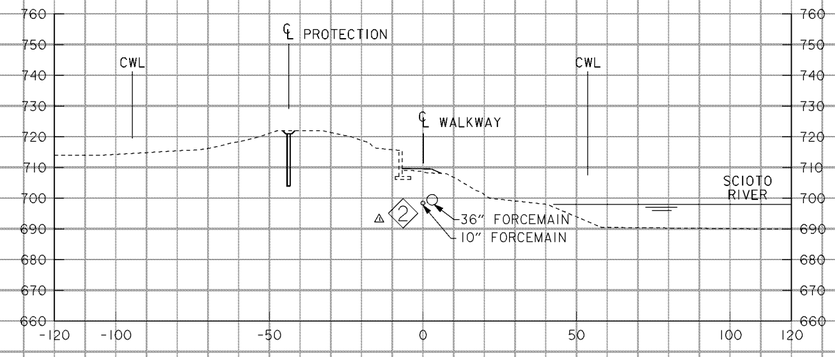
Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-10
Sheet reference number: 20.4/12
FILENAME: c0a0cx05.dgn
PEN TABLE:
Sheet 5 of 8

WORK AS CONSTRUCTED

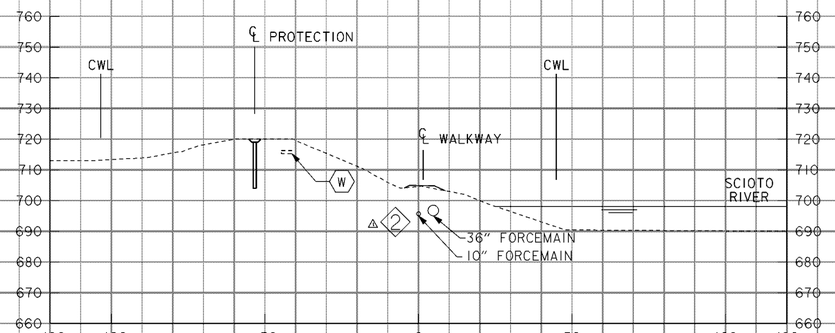
W EXISTING UNDERGROUND ELECTRIC



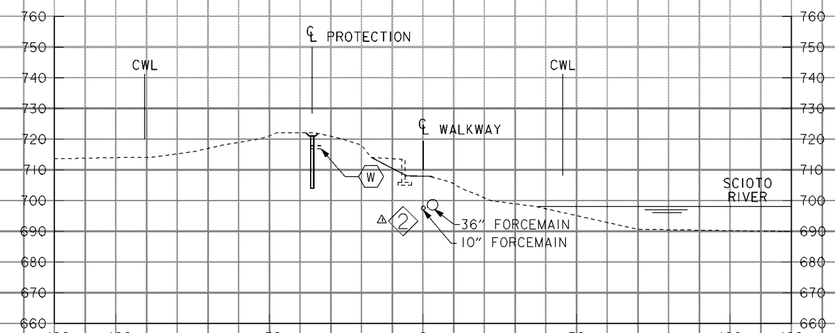
29+50



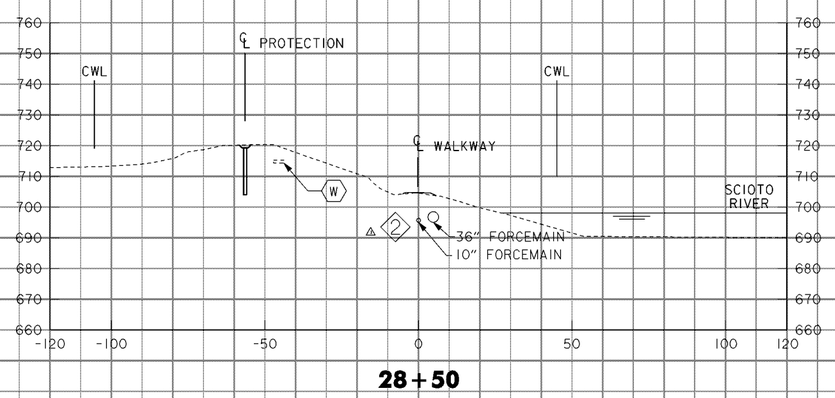
31+00



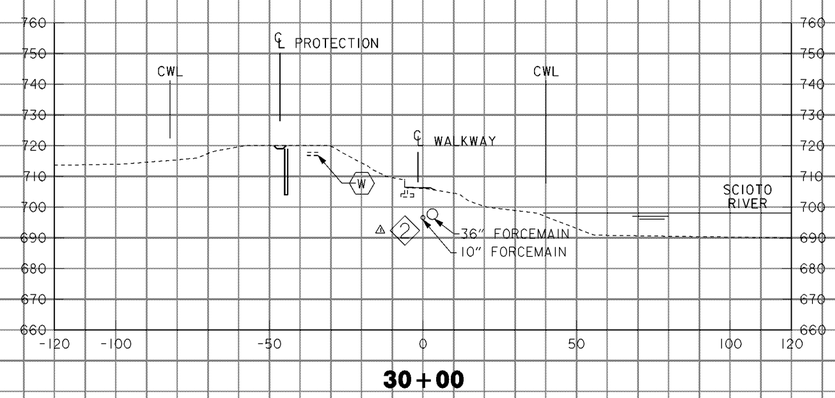
29+00



30+50



28+50



30+00

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. FOR WALKWAY PLAN SEE DRAWING NOS. 20.5/1 THRU 20.5/4.
3. FOR TREEWELL DETAILS SEE DRAWING NO. 20.5/5.
4. LEVEE WORK NOT SHOWN FOR ℄ PROTECTION.

Revisions			
Symbol	Descriptions	Date	Approved
2	REVISED AS CONSTRUCTED	7/02	P.O.C.
1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	42398	

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JRE
Drawn by: RLG
Checked by: JDY
Reviewed by:
Approved by: AJS

US Army Corps of Engineers

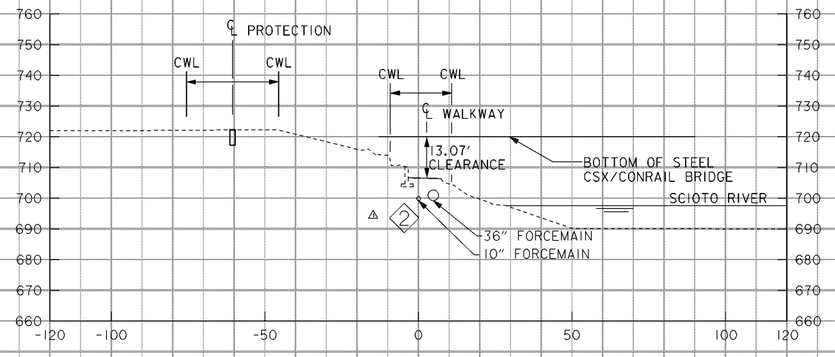
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

CROSS SECTIONS
28+50 TO 31+00

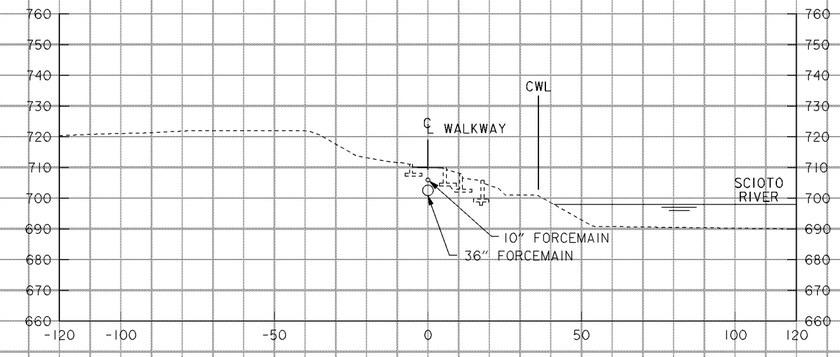
Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-10
Sheet reference number: 20.4/13
FILENAME: c0a0cx06.dgn
PEN TABLE:
Sheet 6 of 8

WORK AS CONSTRUCTED

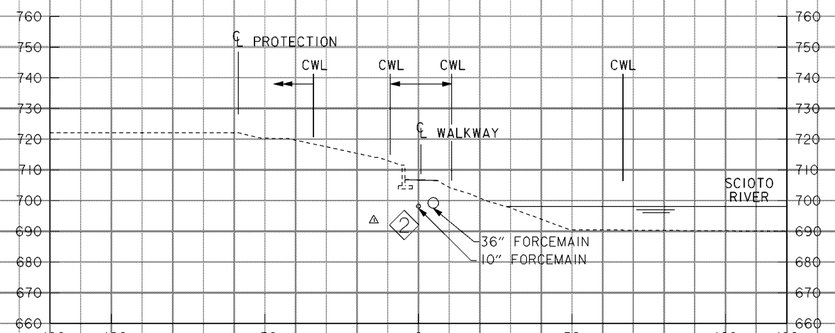
W EXISTING UNDERGROUND ELECTRIC



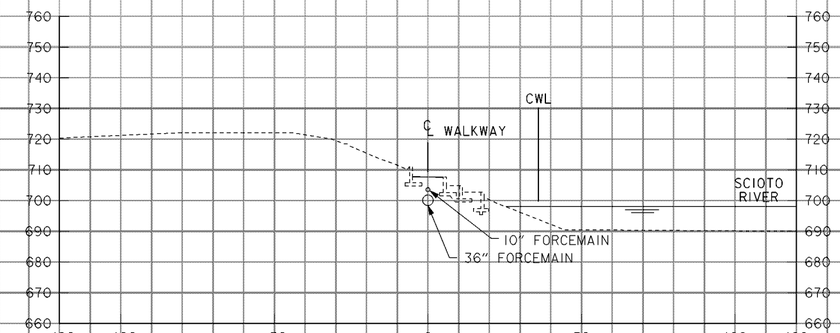
32+50



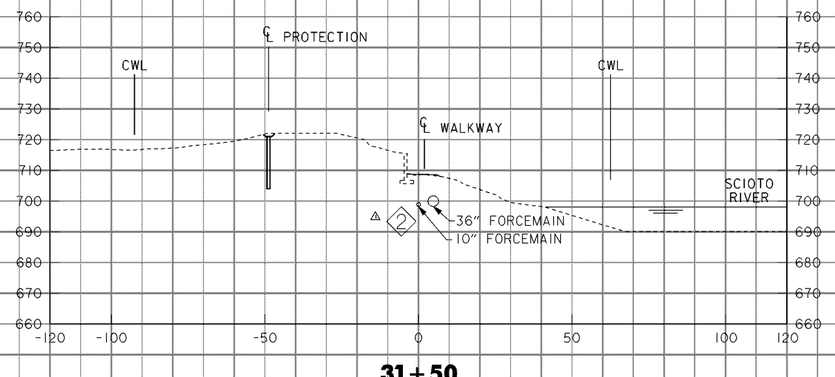
34+00



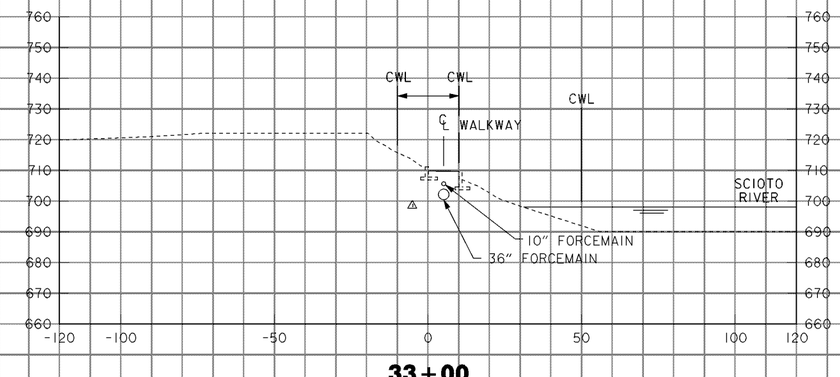
32+00



33+50



31+50



33+00

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. FOR WALKWAY PLAN SEE DRAWING NOS. 20.5/1 THRU 20.5/4.
3. FOR TREEWELL DETAILS SEE DRAWING NO. 20.5/5.
4. LEVEE WORK NOT SHOWN FOR ℄ PROTECTION.

Revisions			
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1	REVISED IN ACCORDANCE WITH AMENDMENT 0001	42398	

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JRE
Drawn by: RLG
Checked by: JDY
Reviewed by:
Approved by: AJS

US Army Corps of Engineers

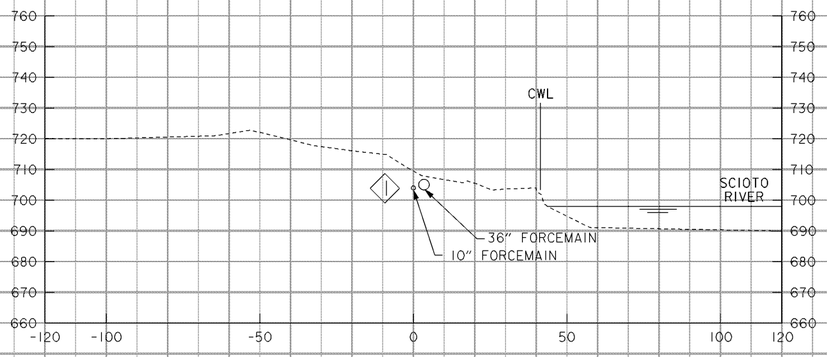
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

CROSS SECTIONS
31+50 TO 34+00

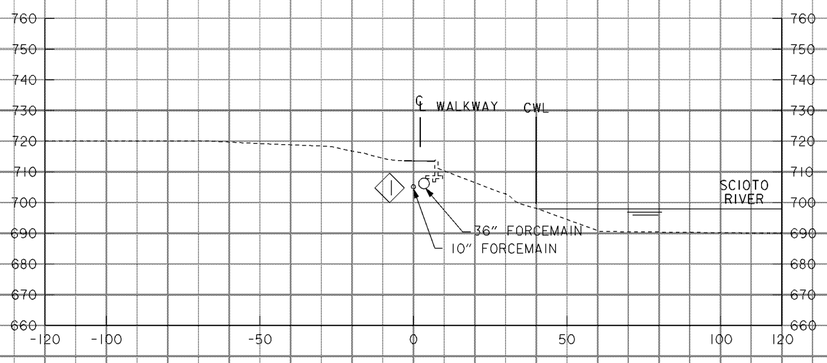
Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-10
Sheet reference number: 20.4/14
FILENAME: c0a0cx07.dgn
PEN TABLE:
Sheet 7 of 8

WORK AS CONSTRUCTED

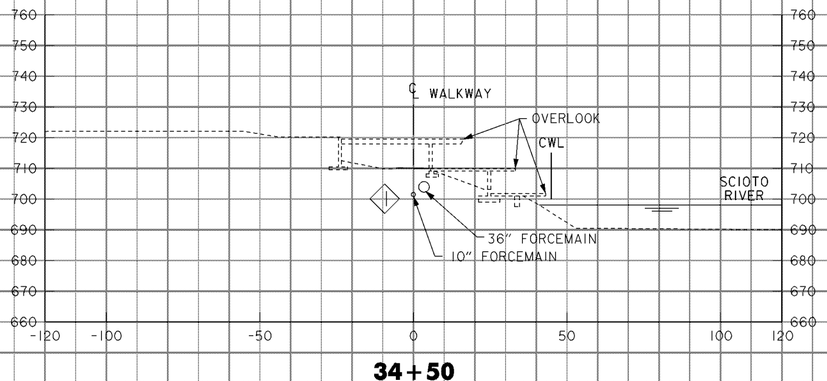
W EXISTING UNDERGROUND ELECTRIC



35+50



35+00



34+50

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. FOR WALKWAY PLAN SEE DRAWING NOS. 20.5/1 THRU 20.5/4.
3. FOR TREEWELL DETAILS SEE DRAWING NO. 20.5/5.
4. LEVEE WORK NOT SHOWN FOR ℄ PROTECTION.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JRE
Drawn by: RLG
Checked by: JDY
Reviewed by:
Approved by: AJS

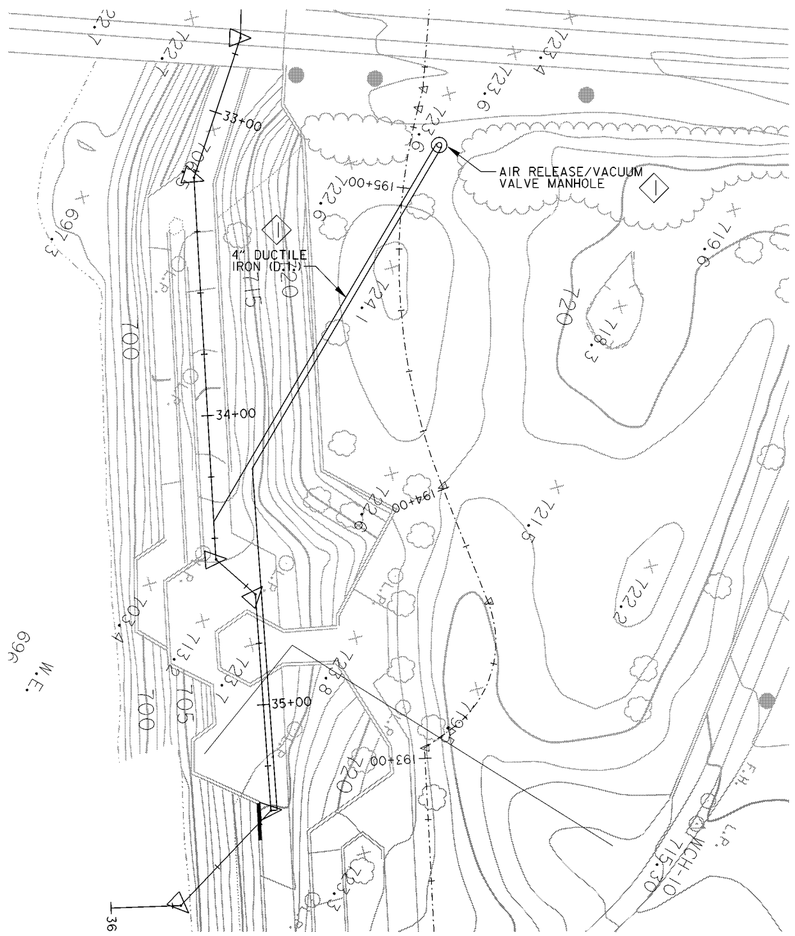
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

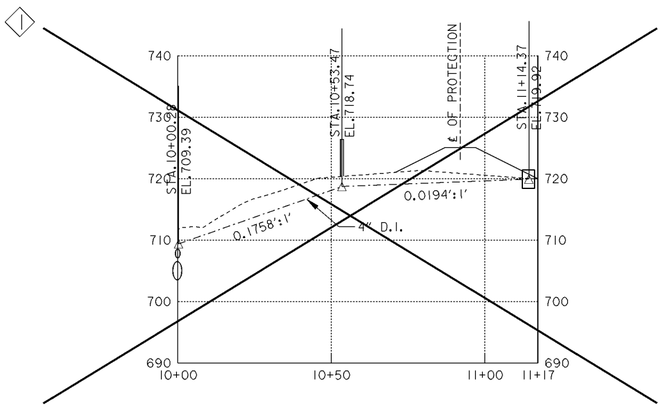
CROSS SECTIONS
34+50 TO 35+50

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-10
Sheet reference number: 20.415
FILENAME: a0c0c08.dgn
PEN TABLE:
Sheet 8 of 8

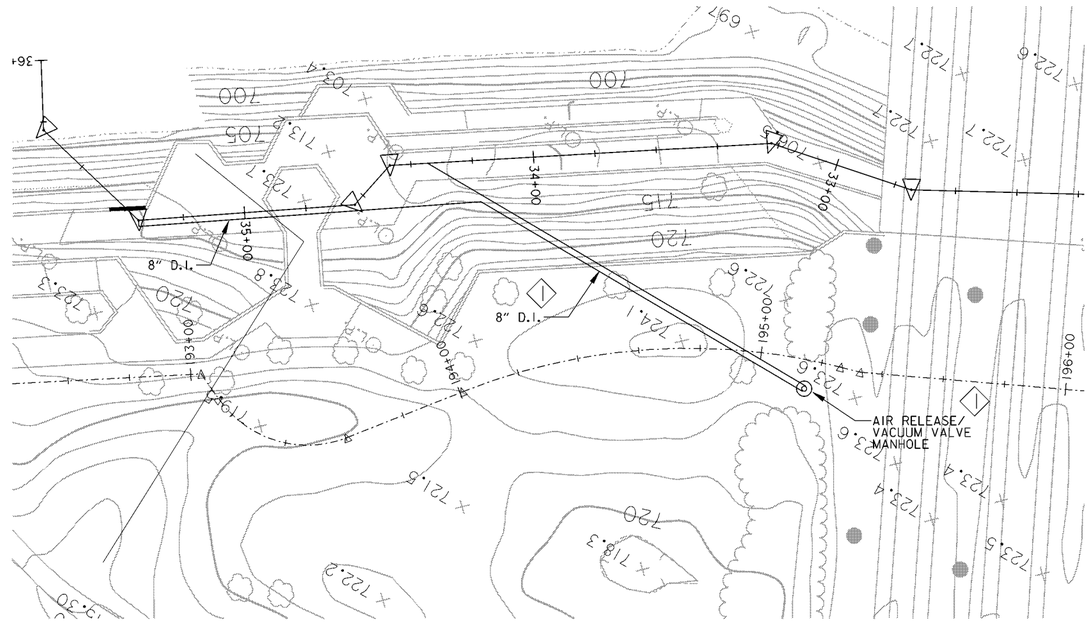
WORK AS CONSTRUCTED



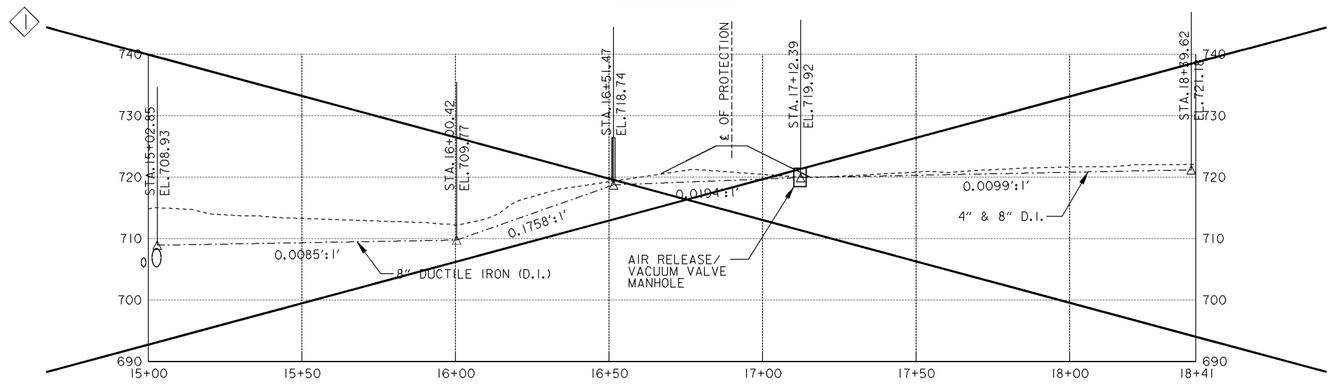
PLAN
SCALE: 1" = 20'



PROFILE
SCALE IN FEET



PLAN
SCALE: 1" = 20'



PROFILE
SCALE IN FEET

NOTE: REVISED PROFILES NOT PROVIDED BY CONTRACTOR.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED AS CONSTRUCTED	7/02	P.O.C.

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: TDW
Approved by: PFO

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IIE

AIR RELEASE OUTLETS

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-11
Sheet reference number: 20.416
FILENAME: a0abpp01.dgn
PRN TABLE:
Sheet of

WORK AS CONSTRUCTED

HORIZONTAL ALIGNMENT DATA FOR WALKWAY

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) POB	7+75.00	712828.966	1857543.429
( ) PI	7+91.08	712820.009	1857530.078
Tangent Direction:	S 56°08'34.40" W		
Tangent Length:	16.077		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PI	7+91.08	712820.009	1857530.078
( ) PI	8+58.58	712782.123	1857474.215
Tangent Direction:	S 55°51'18.29" W		
Tangent Length:	67.498		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PI	8+58.58	712782.123	1857474.215
( ) PI	8+75.75	712765.305	1857470.735
Tangent Direction:	S 11°41'26.60" W		
Tangent Length:	17.174		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PI	8+75.75	712765.305	1857470.735
( ) PI	10+00.00	712697.351	1857366.712
Tangent Direction:	S 56°50'42.17" W		
Tangent Length:	124.252		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PI	10+00.00	712697.351	1857366.712
( ) PI	10+38.20	712689.261	1857329.378
Tangent Direction:	S 77°46'24.46" W		
Tangent Length:	38.200		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PI	10+38.20	712689.261	1857329.378
( ) PI	11+26.64	712650.192	1857250.038
Tangent Direction:	S 63°46'59.56" W		
Tangent Length:	88.438		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PI	11+26.64	712650.192	1857250.038
( ) PI	12+89.80	712547.996	1857122.850
Tangent Direction:	S 51°13'04.81" W		
Tangent Length:	163.159		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PI	12+89.80	712547.996	1857122.850
( ) PC	13+63.30	712507.887	1857061.253
Tangent Direction:	S 56°55'47.53" W		
Tangent Length:	73.504		

Element: CIRCULAR CURVE	STATION	NORTH(Y)	EAST(X)
( ) PC	13+63.30	712507.887	1857061.253
PI	13+87.92	712494.452	1857040.620
( ) CC		712717.388	1856924.837
( ) PT	14+12.39	712485.300	1857017.762
Curve Radius:	250.000	Curve Length:	49.086
DOC:	22°55'05.92"	Long Chord:	49.007
Circular Curve Delta:	11°14'58.80"	External Dist.:	1.210
Curve Deflection:	5°37'29.40"		
Total Central Angle:	11°14'58.80"		
1st Subtangent Distance:	24.622		
2nd Subtangent Distance:	24.622		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PT	14+12.39	712485.300	1857017.762
( ) PC	14+42.46	712474.123	1856989.846
Tangent Direction:	S 68°10'46.33" W		
Tangent Length:	30.071		

Element: CIRCULAR CURVE	STATION	NORTH(Y)	EAST(X)
( ) PC	14+42.46	712474.123	1856989.846
PI	14+65.94	712465.396	1856968.050
( ) CC		712009.946	1857175.695
( ) PT	14+89.38	712454.665	1856947.168
Curve Radius:	-500.000	Curve Length:	46.921
DOC:	11°27'32.96"	Long Chord:	46.904
Circular Curve Delta:	5°22'36.31"	External Dist.:	0.551
Curve Deflection:	2°41'18.15"		
Total Central Angle:	5°22'36.31"		
1st Subtangent Distance:	23.478		
2nd Subtangent Distance:	23.478		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PT	14+89.38	712454.665	1856947.168
( ) PI	16+87.87	712363.947	1856770.628
Tangent Direction:	S 62°48'10.02" W		
Tangent Length:	198.485		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PI	16+87.87	712363.947	1856770.628
( ) PC	18+61.67	712278.917	1856619.040
Tangent Direction:	S 60°42'38.49" W		
Tangent Length:	173.808		

Element: CIRCULAR CURVE	STATION	NORTH(Y)	EAST(X)
( ) PC	18+61.67	712278.917	1856619.040
PI	18+85.95	712267.041	1856597.868
( ) CC		712518.761	1856484.504
( ) PT	19+10.10	712259.058	1856574.943
Curve Radius:	275.000	Curve Length:	48.425
DOC:	20°50'05.38"	Long Chord:	48.362
Circular Curve Delta:	10°05'21.20"	External Dist.:	1.069
Curve Deflection:	5°02'40.60"		
Total Central Angle:	10°05'21.20"		
1st Subtangent Distance:	24.275		
2nd Subtangent Distance:	24.275		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PT	19+10.10	712259.058	1856574.943
( ) PC	19+24.56	712254.302	1856561.288
Tangent Direction:	S 70°47'59.69" W		
Tangent Length:	14.459		

Element: CIRCULAR CURVE	STATION	NORTH(Y)	EAST(X)
( ) PC	19+24.56	712254.302	1856561.288
PI	19+38.51	712249.713	1856548.109
( ) CC		712197.640	1856581.020
( ) PT	19+51.98	712239.779	1856538.308
Curve Radius:	-60.000	Curve Length:	27.423
DOC:	95°29'34.68"	Long Chord:	27.185
Circular Curve Delta:	26°11'13.82"	External Dist.:	1.602
Curve Deflection:	13°05'36.91"		
Total Central Angle:	26°11'13.82"		
1st Subtangent Distance:	13.955		
2nd Subtangent Distance:	13.955		

Element: LINEAR	STATION	NORTH(Y)	EAST(X)
( ) PT	19+51.98	712239.779	1856538.308
( ) POE	20+44.32	712174.046	1856473.458
Tangent Direction:	S 44°36'45.88" W		
Tangent Length:	92.338		

VERTICAL ALIGNMENT DATA FOR WALKWAY

Element: Linear	STATION	ELEVATION
POB	7+75.00	715.40
PVI	8+82.08	712.42
Tangent Grade:	-2.7880	
Tangent Length:	107.08	

Element: Linear		
PVI	8+82.08	712.42
PVI	10+00.00	706.55
Tangent Grade:	-4.9747	
Tangent Length:	117.92	

Element: Linear		
PVI	10+00.00	706.55
PVC	10+75.00	706.22
Tangent Grade:	-0.4395	
Tangent Length:	75.00	

Element: Parabola		
PVC	10+75.00	706.22
PVI	11+00.00	706.11
PVT	11+25.00	706.94
VLOW	10+80.87	706.21
Length:	50.00	
Entrance Grade:	-0.4395	
Exit Grade:	3.3067	
r = (g2 - g1) / L:	7.4923	
K = l / (g2 - g1):	13.3470	
Middle Ordinate:	0.23	

Element: Linear		
PVT	11+25.00	706.94
PVC	11+80.00	708.76
Tangent Grade:	3.3067	
Tangent Length:	55.00	

Element: Parabola		
PVC	11+80.00	708.76
PVI	12+05.00	709.58
PVT	12+30.00	708.73
VHIGH	12+04.64	709.16
Length:	50.00	
Entrance Grade:	3.3067	
Exit Grade:	-3.4041	
r = (g2 - g1) / L:	-13.4216	
K = l / (g2 - g1):	7.4507	
Middle Ordinate:	-0.42	

Element: Linear		
PVT	12+30.00	708.73
PVC	13+00.00	706.35
Tangent Grade:	-3.4041	
Tangent Length:	70.00	

Element: Parabola		
PVC	13+00.00	706.35
PVI	13+50.00	704.65
PVT	14+00.00	704.54
Length:	100.00	
Entrance Grade:	-3.4041	
Exit Grade:	-0.2235	
r = (g2 - g1) / L:	3.1806	
K = l / (g2 - g1):	31.4402	
Middle Ordinate:	0.40	

Element: Linear		
PVT	14+00.00	704.54
PVC	15+00.00	704.31
Tangent Grade:	-0.2235	
Tangent Length:	100.00	

Element: Parabola		
PVC	15+00.00	704.31
PVI	15+50.00	704.20
PVT	16+00.00	704.64
VLOW	15+20.27	704.29
Length:	100.00	
Entrance Grade:	-0.2235	
Exit Grade:	0.8790	
r = (g2 - g1) / L:	1.1025	
K = l / (g2 - g1):	90.7029	
Middle Ordinate:	0.14	

Element: Linear		
PVT	16+00.00	704.64
PVC	17+00.00	705.52
Tangent Grade:	0.8790	
Tangent Length:	100.00	

Element: Parabola		
PVC	17+00.00	705.52
PVI	17+50.00	705.96
PVT	18+00.00	709.76
Length:	100.00	
Entrance Grade:	0.8790	
Exit Grade:	7.5979	
r = (g2 - g1) / L:	6.7189	
K = l / (g2 - g1):	14.8834	
Middle Ordinate:	0.84	

Element: Linear		
PVT	18+00.00	709.76
PVC	18+17.69	711.10
Tangent Grade:	7.5979	
Tangent Length:	17.69	

Element: Parabola		
PVC	18+17.69	711.10
PVI	18+42.69	713.00
PVT	18+67.69	715.94
Length:	50.00	
Entrance Grade:	7.5979	
Exit Grade:	11.7654	
r = (g2 - g1) / L:	8.3350	
K = l / (g2 - g1):	11.9976	
Middle Ordinate:	0.26	

Element: Linear		
PVT	18+67.69	715.94
PVC	19+15.43	721.56
Tangent Grade:	11.7654	
Tangent Length:	47.74	

Element: Parabola		
PVC	19+15.43	721.56
PVI	19+40.43	724.50
PVT	19+65.43	724.08
VHIGH	19+59.24	724.14
Length:	50.00	
Entrance Grade:	11.7654	
Exit Grade:	-1.6634	
r = (g2 - g1) / L:	-26.8576	
K = l / (g2 - g1):	3.7233	
Middle Ordinate:	-0.84	

Element: Linear		
PVT	19+65.43	724.08
POE	20+48.61	722.70
Tangent Grade:	-1.6634	
Tangent Length:	83.18	

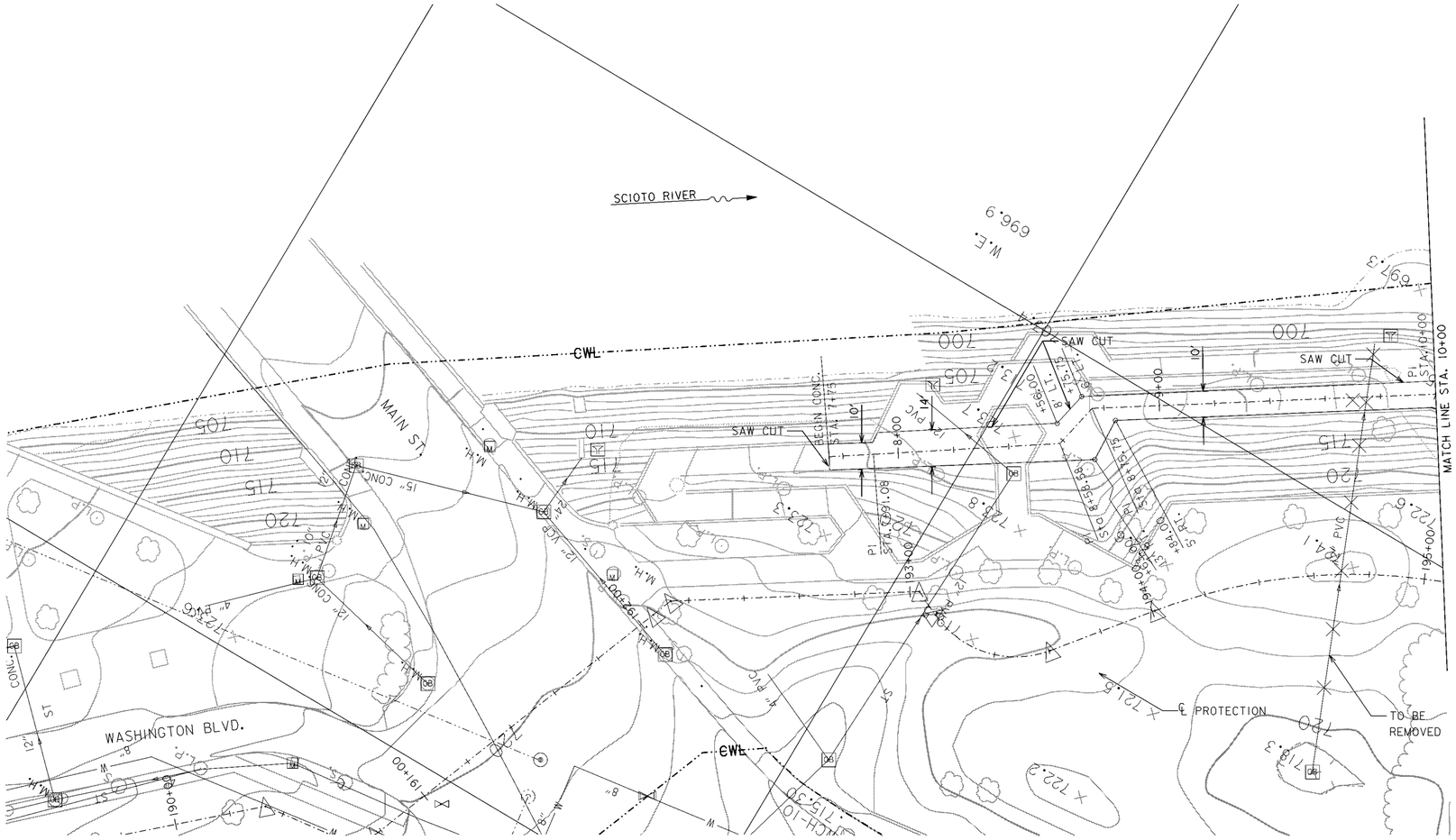
NOTES

1. FOR CENTERLINE OF PROTECTION PLAN SEE DRAWING NOS. 16/1 THRU 16/13.
2. FOR CENTERLINE OF FORCEMAIN PLAN SEE DRAWING NOS. 20.4/1 THRU 20.4/7.

Revisions			
Symbol	Descriptions	Date	Approved

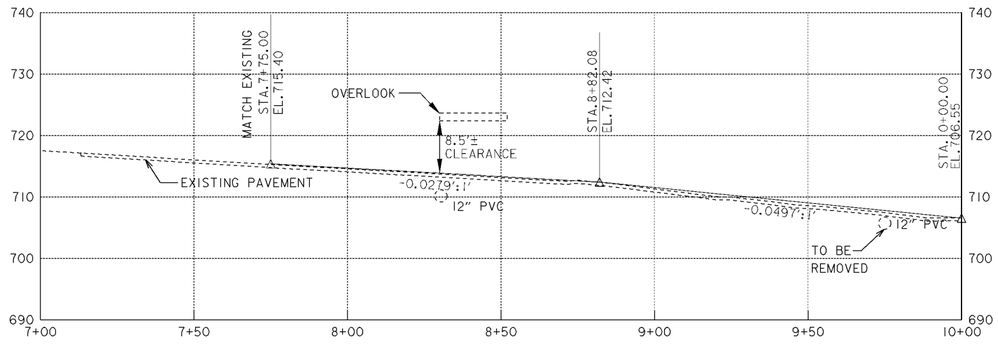
STILSON & ASSOCIATES, INC. ENGINEERS-ARCHITECTS-SCIENTISTS COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: JDY	US Army Corps of Engineers
Drawn by: JRE	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Checked by: GPS	**ALIGNMENT DATA (WALKWAY)**
Reviewed by: PFO	Scale:
Approved by: AJS	Date: MARCH 1998
	Drawing Code: 016-PWC-10
	Sheet reference number: 20.5/1
	FILENAME: 00AAAT01.DGN PEN TABLE:
	Sheet 1 of 1

WORK AS CONSTRUCTED



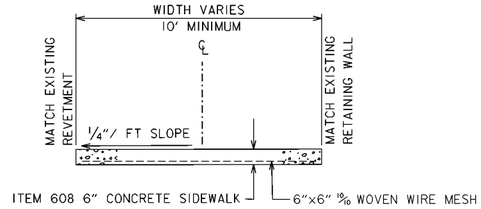
PLAN

SCALE: 1" = 20'



PROFILE

SCALE IN FEET



TYPICAL SECTION

STA. 7+75 TO STA. 10+00

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. EXISTING LIGHTING AND RETAINING WALL TO REMAIN.
3. LEVEE WORK AND OTHER DESIGN FEATURES NOT SHOWN FOR ℄ PROTECTION WITHIN PARK AREA.

Revisions			
Symbol	Descriptions	Date	Approved
⚠	REVISED IN ACCORDANCE WITH AMENDMENT 0001	42398	

STILSON & ASSOCIATES, INC. ENGINEERS-ARCHITECTS-SCIENTISTS COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: TDW
Approved by: PFO

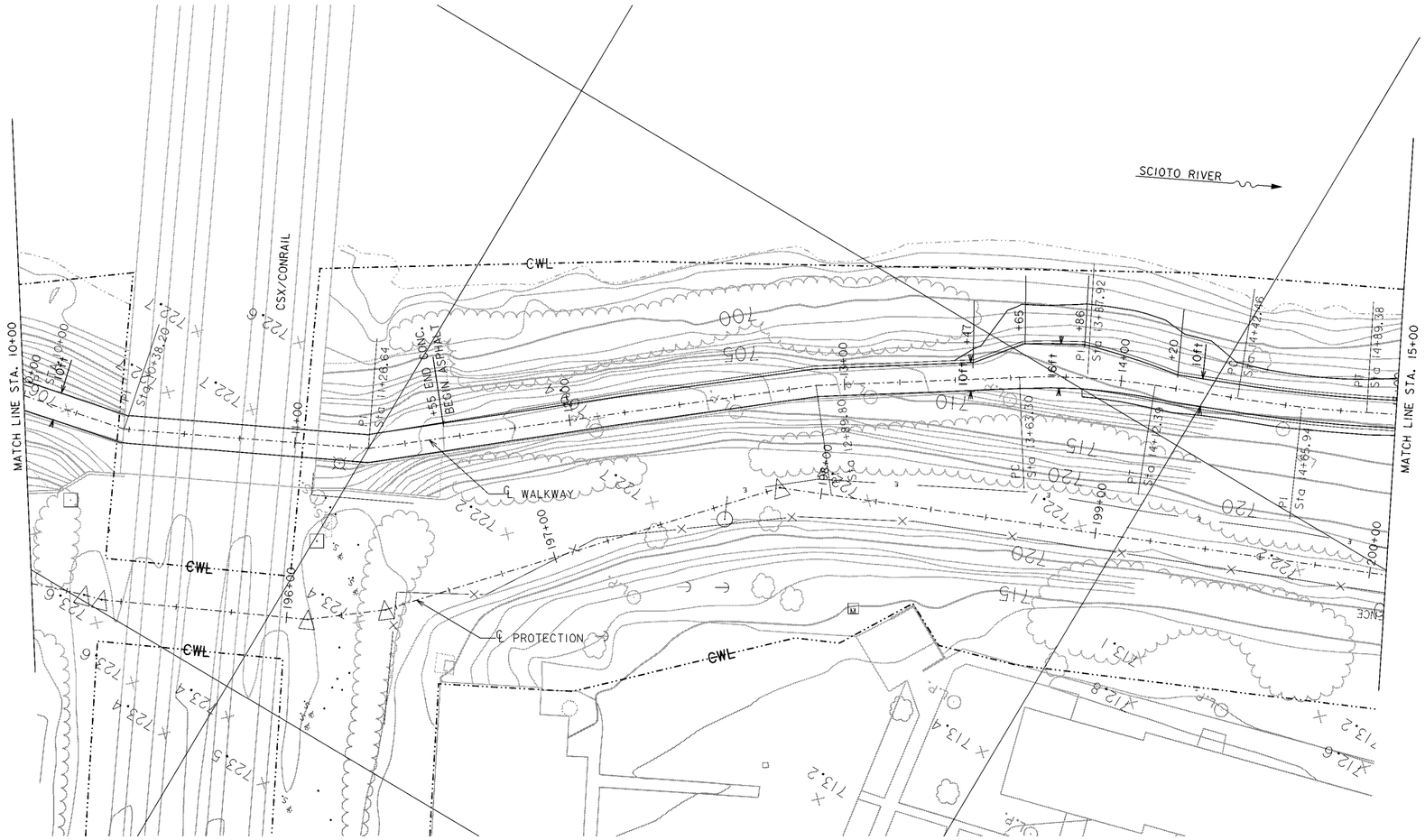
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IIE

SCIOTO RIVER WALKWAY (1 OF 3)

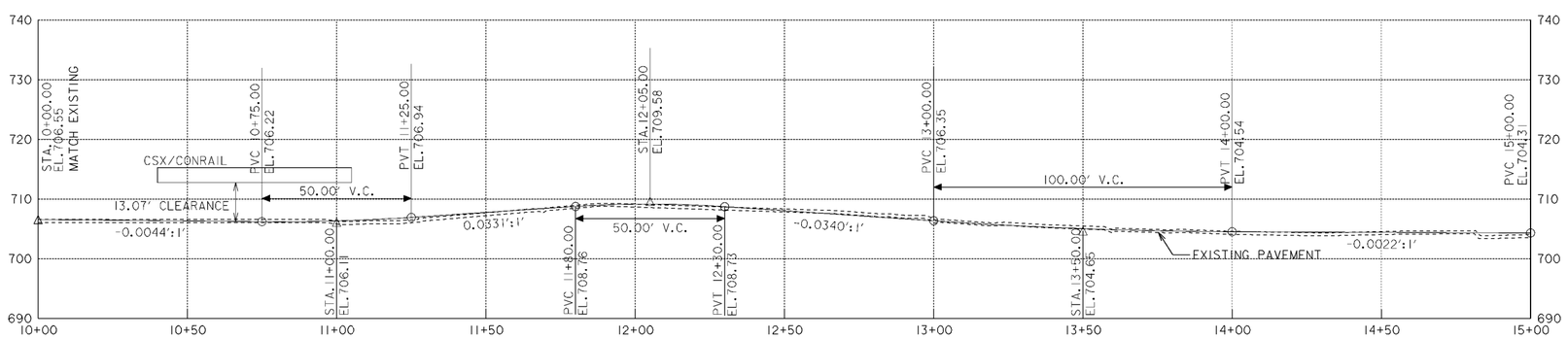
Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-11
Sheet reference number: 20.52
FILENAME: 00AAPP01.DGN
PEN TABLE:
Sheet 1 of 3

WORK AS CONSTRUCTED



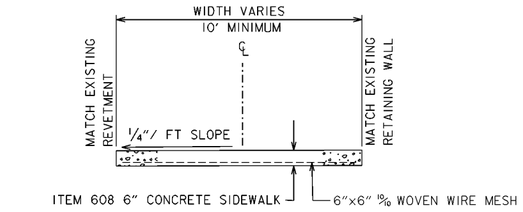
PLAN

SCALE: 1" = 20'



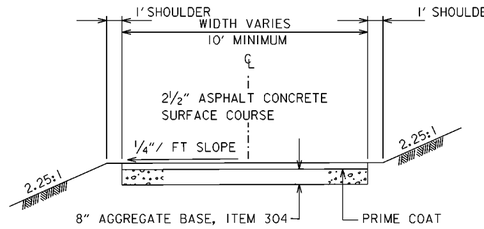
PROFILE

SCALE IN FEET



TYPICAL SECTION

STA. 10+00 TO STA. 11+55



TYPICAL SECTION

STA. 11+55 TO 20+44.32

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. EXISTING LIGHTING AND RETAINING WALL TO REMAIN.

Revisions			
Symbol	Descriptions	Date	Approved
⚠	REVISED IN ACCORDANCE WITH AMENDMENT 0001	4/23/98	

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: TDW
Approved by: PFO

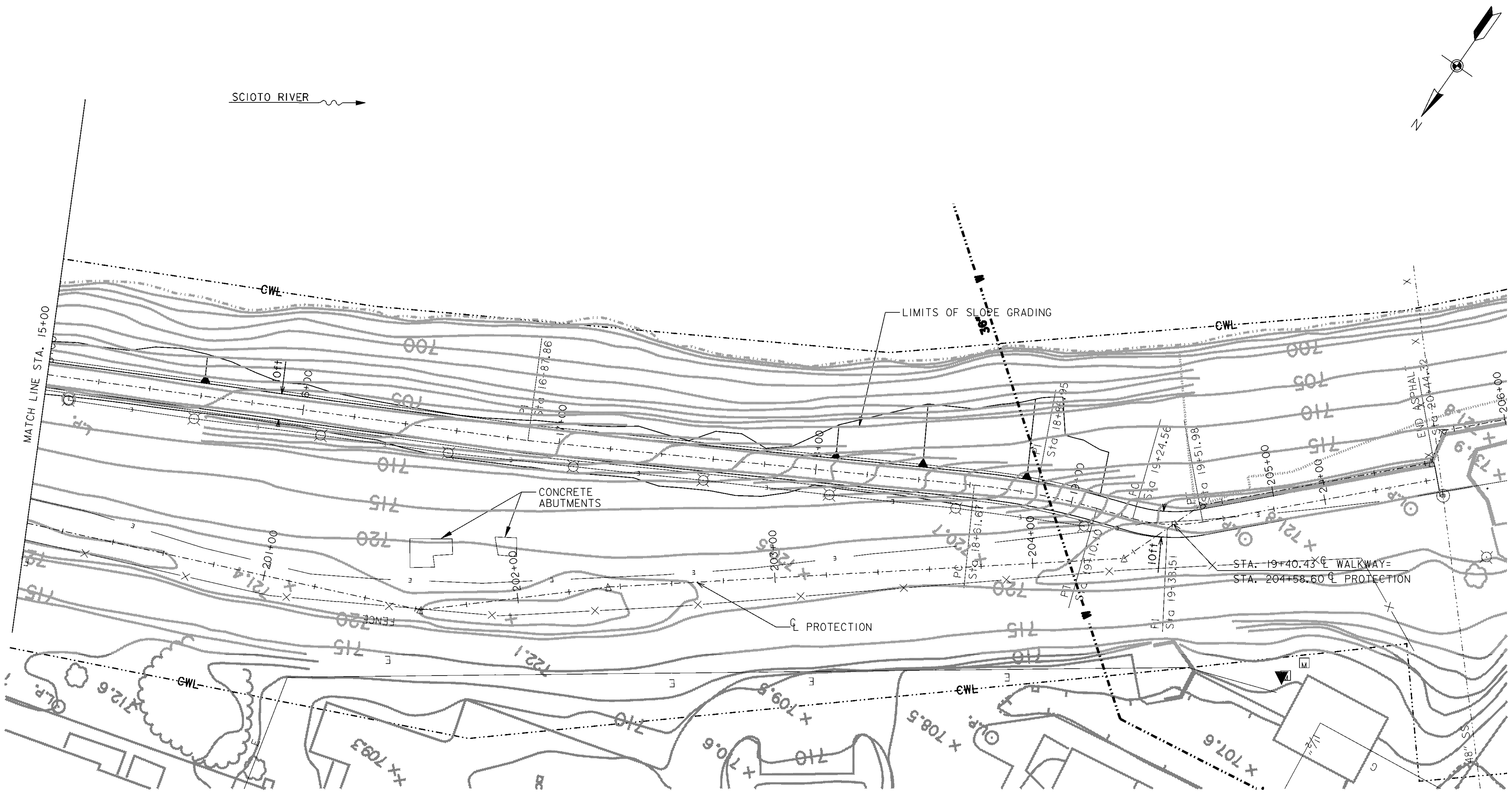
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IIE

SCIOTO RIVER WALKWAY (2 OF 3)

Scale: AS SHOWN
Date: MARCH 1999
Drawing Code: 016-PWC-11
Sheet reference number: 20.53
FILENAME: 00AAPP02.DGN
PSN TABLE:
Sheet 2 of 3

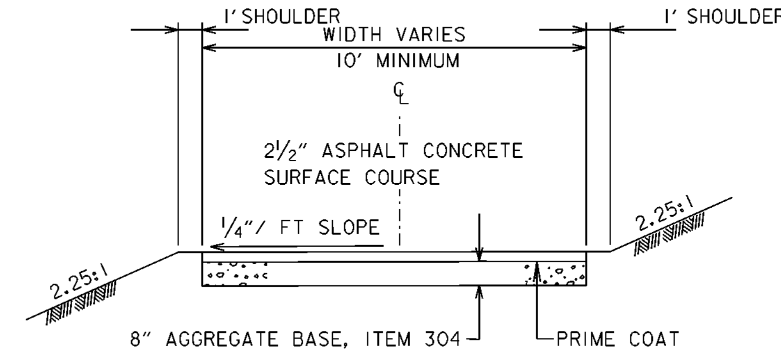
WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'

20' 0 20'

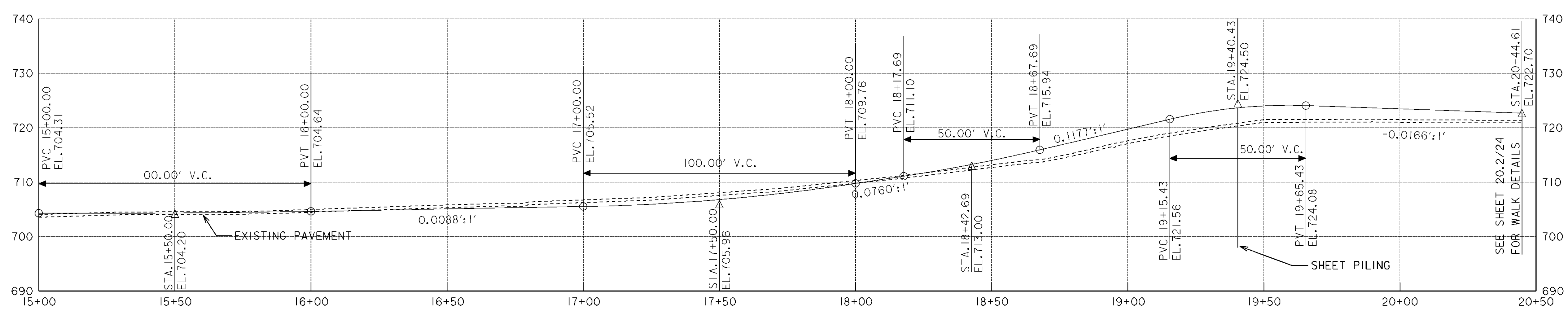


TYPICAL SECTION

STA. 11+55 TO 20+44.32

NOTES

1. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 16/1 THRU 16/13.
2. EXISTING LIGHTING AND RETAINING WALL TO REMAIN.



PROFILE

SCALE IN FEET

Revisions

Symbol	Descriptions	Date	Approved

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIENTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

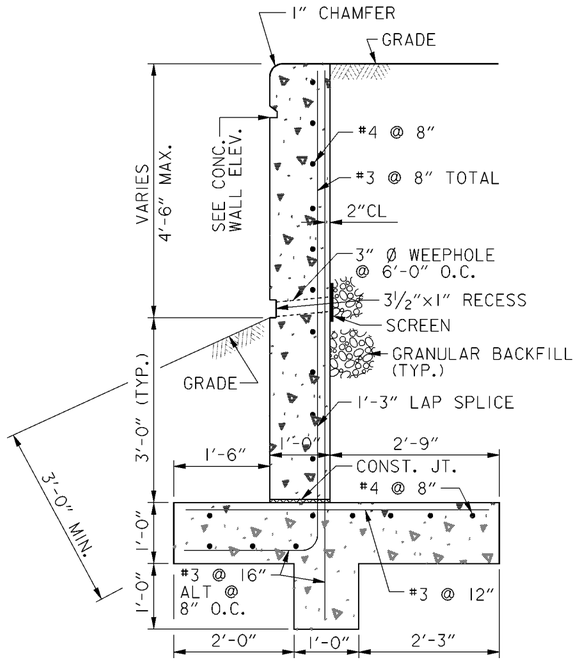
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IIE

SCIOTO RIVER WALKWAY (3 OF 3)

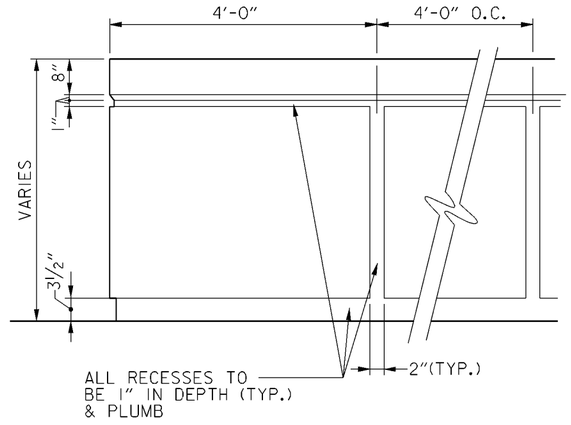
Designed by:	JDY
Drawn by:	RLG
Checked by:	GPS
Reviewed by:	TDW
Approved by:	PFO
Scale:	AS SHOWN
Date:	MARCH 1999
Drawing Code:	016-PWC-11
Sheet reference number:	20.5/4
FILENAME:	00AAPP03.DGN
PEN TABLE:	
Sheet	3 of 3

WORK AS CONSTRUCTED



CONCRETE RETAINING WALL
N.T.S.

NOTE:
PROVIDE #4x24" HORIZONTAL DOWELS IN GROUTED SOLID ¾" Ø HOLES @ 16' c/c AT NEW/EXISTING WALL INTERFACE.



CONCRETE WALL ELEVATION
N.T.S.

NOTE:
1. THE DETAILS ON THIS SHEET APPLY ONLY TO THE DRY FLOW SEWER FORCE MAIN TO THE O.S.I.S. (OLENTANGY SCIOTO INTERCEPTER SEWER)

Revisions			
Symbol	Descriptions	Date	Approved

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIECTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: WEB
Approved by: AJS

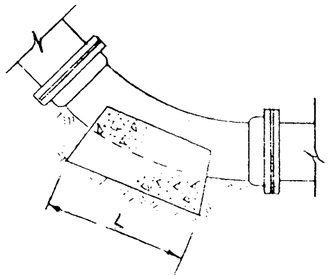
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

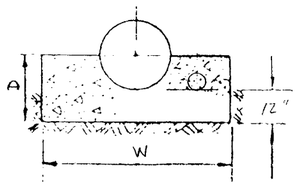
MISCELLANEOUS
FORCE MAIN DETAILS (1 OF 2)

Scale:
Date: MARCH 1998
Drawing Code: 016-PWC-10
Sheet reference number: 20.5/5
FILENAME: 00aadt00.dgn
PRN TABLE:
Sheet 1 of 2

WORK AS CONSTRUCTED



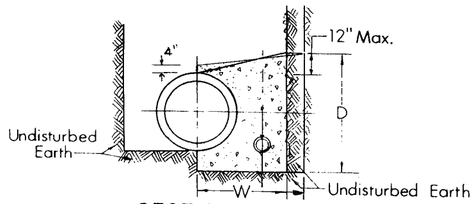
PROFILE



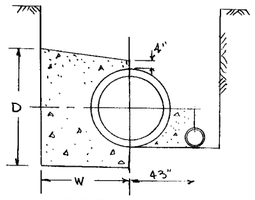
SECTION

SAG BENDS

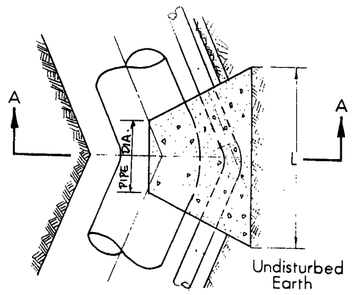
N.T.S.
CMSC L-6310



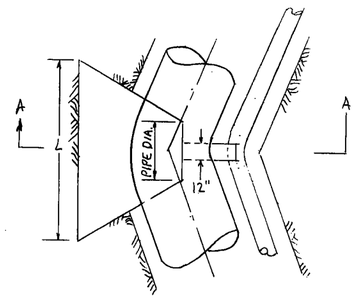
SECTION A-A



SECTION A-A



PLAN
45° BEND



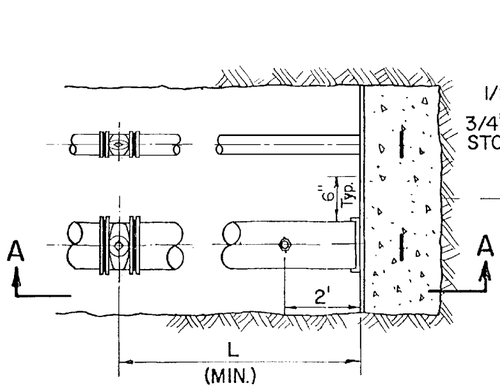
PLAN
BENDS 11¼° AND 22½°

BLOCKING FOR HORIZONTAL BENDS

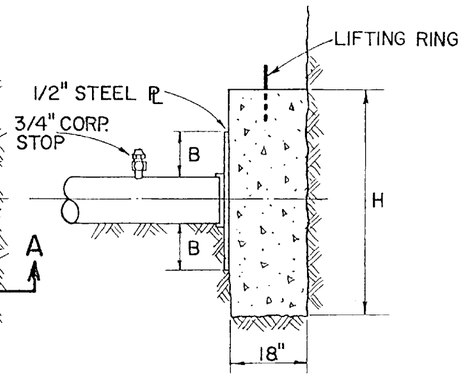
N.T.S.
CMSC L-6311

36" AND 10" PIPE

DEGREE OF BEND	DIMENSIONS IN INCHES W [C]	D [B]	L [A]	VOL. CONC. C.Y.
HORIZ. 11¼°	46	60	66	2.28
HORIZ. 22½°	46	66	114	3.86
HORIZ. 45°	61	80	160	8.68
VERT. 11¼° SAG	66 [B]	33 [C]	50 [A]	1.19

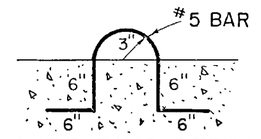


PLAN VIEW



SECTION A-A

PIPE DIAMETER	H	B	L	VOLUME CU-FT
36"	60"	6"	18'	63.15
10"	60"	1"	18'	



LIFT RING DETAIL

NOTE:

1. BACKER DESIGNED FOR 3000 PSF SOIL BEARING.
2. END OF PIPE CAPPED OR PLUGGED.
3. GREASE STEEL PLATE WHERE IN CONTACT WITH CONCRETE BACKER.
4. PLACE CONCRETE AGAINST UNDISTURBED SOIL.
5. THOROUGHLY COMPACT BACKFILL BETWEEN VALVE AND END OF PIPE.

THRUST BLOCK DETAIL
END OF PIPE (BULKHEAD)
N.T.S.
CMSC L-7001

NOTE:

1. THE DETAILS ON THIS SHEET APPLY ONLY TO THE DRY FLOW SEWER FORCE MAIN TO THE O.S.I.S. (OLENTANGY SCIOTO INTERCEPTER SEWER)

Revisions			
Symbol	Descriptions	Date	Approved

STILSON & ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-SCIECTISTS
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: JDY
Drawn by: RLG
Checked by: GPS
Reviewed by: WEB
Approved by: AJS

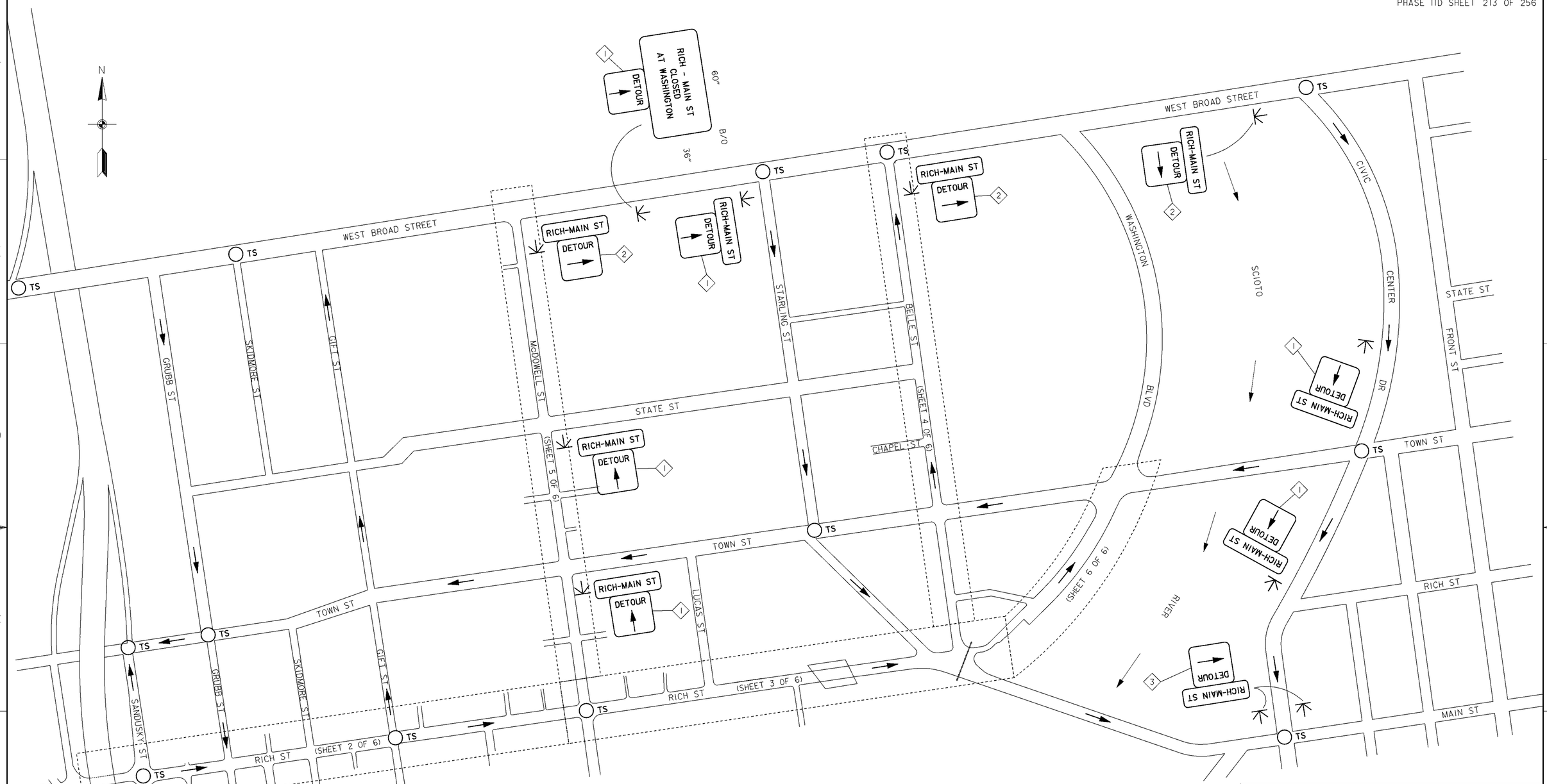
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MISCELLANEOUS
FORCE MAIN DETAILS (2 OF 2)

Scale:
Date: MARCH 1998
Drawing Code: 016-PWC-10
Sheet reference number: 20.5/6
FILENAME: 00aad101.dgn
PEN TABLE:
Sheet 2 of 2

WORK AS CONSTRUCTED



DETOUR PLAN

SCALE: 3/4" = 100'

100' 0 100' 200' 300'

LEGEND

TS - TRAFFIC SIGNAL

→ - ONE WAY STREET

B/O - BLACK ON ORANGE SIGN

TYPICAL DETOUR SIGN

48" B/O

RICH-MAIN ST 12"

DETOUR

OC-29 (1)

OC-29R (2)

OC-29L (3)

NOTES

1. STEADY-BURNING TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT.
2. SEE MAINTENANCE OF TRAFFIC PLAN DRAWING NOS.92/2 THRU 92/6 FOR STREET SIGNAGE AND BARRICADES.
3. SEE GENERAL NOTE 9 ON DRAWING NO.0/4 FOR TEMPORARY TRAFFIC CONTROL REQUIREMENTS.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

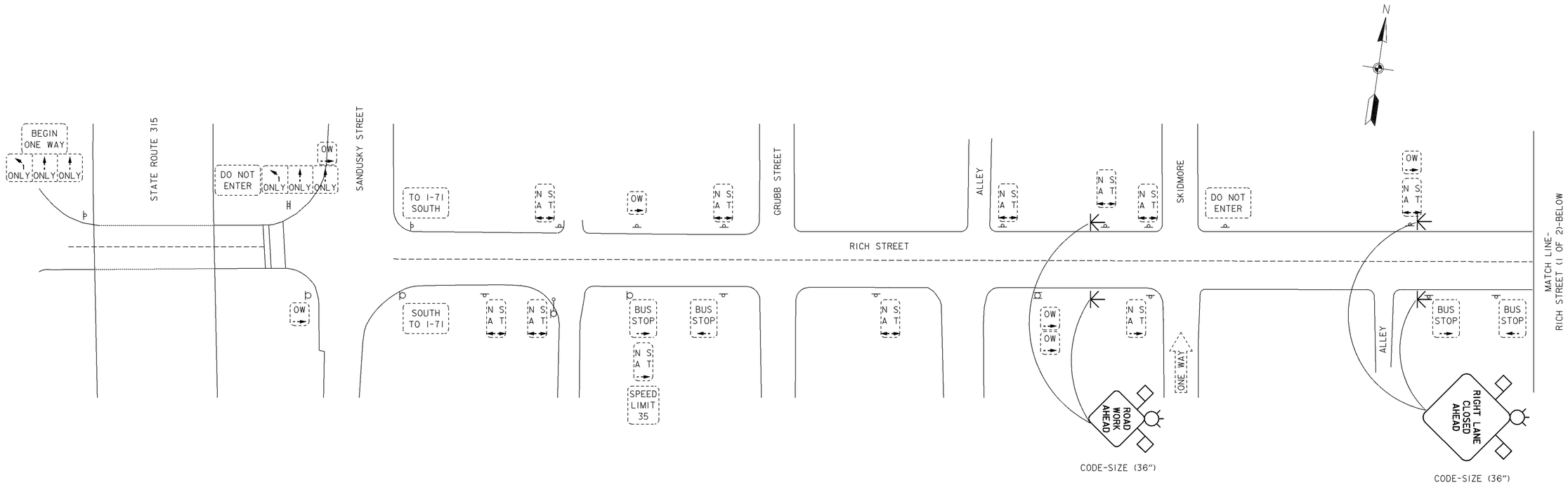
US Army Corps of Engineers

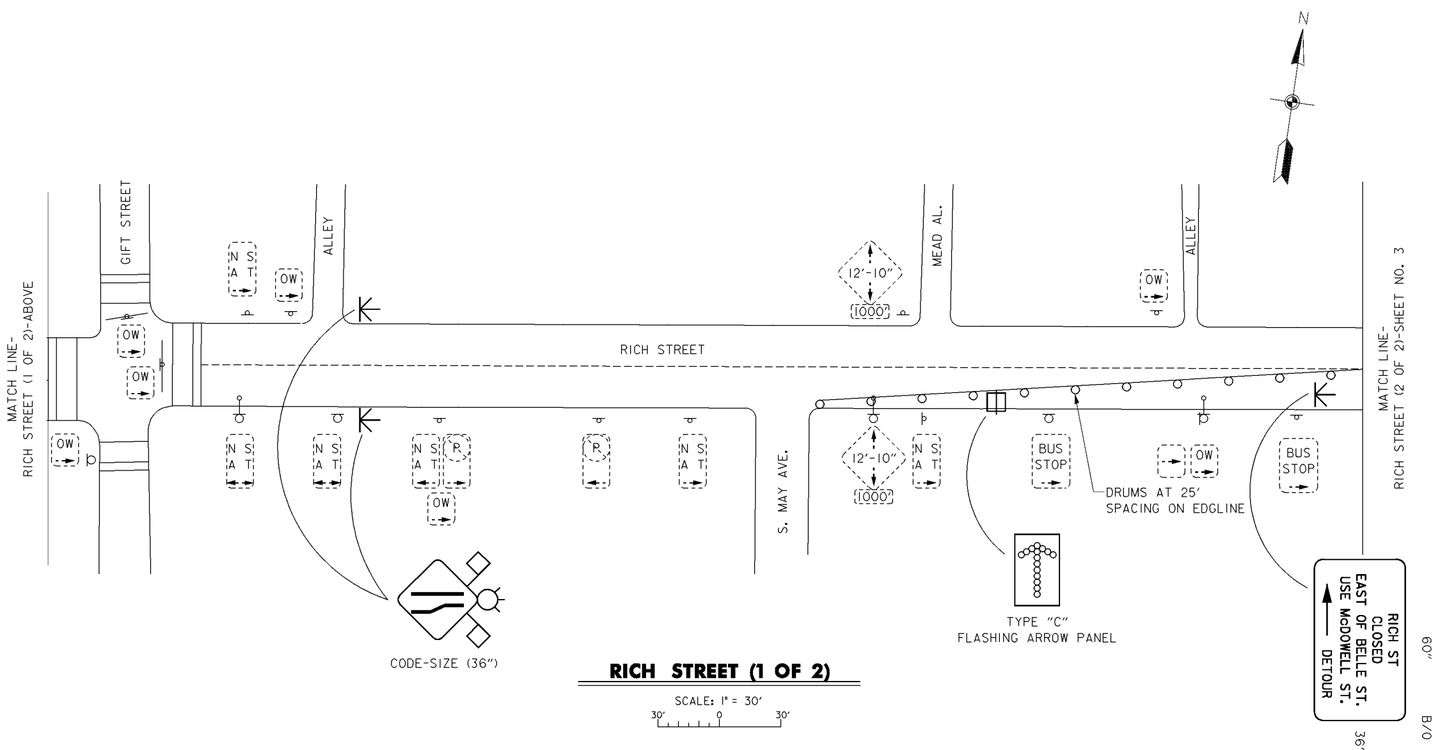
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MAINTENANCE OF TRAFFIC (1 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 92/1
FILENAME: 00h1p101.dgn
PEN TABLE:
Sheet 1 of 6

WORK AS CONSTRUCTED





RICH STREET (1 OF 2)

SCALE: 1" = 30'
30' 0 30'

NOTES

1. STEADY-BURNING TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT.
2. SEE GENERAL NOTE 9 ON DRAWING NO.0/4 FOR TEMPORARY TRAFFIC CONTROL REQUIREMENTS.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: A.PUMMELL
Checked by: R.OMAN
Reviewed by:
Approved by:

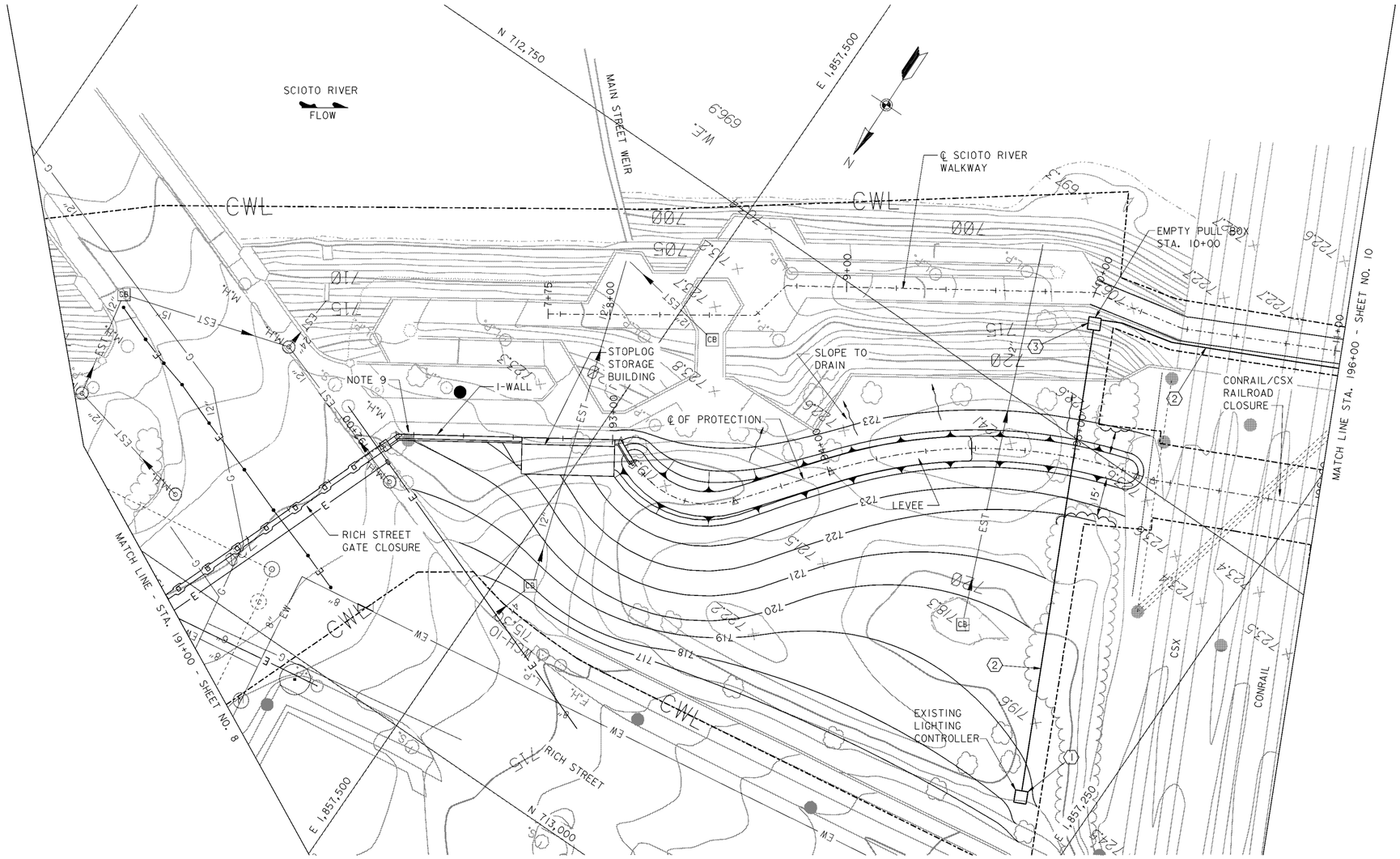
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MAINTENANCE OF TRAFFIC (2 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 92/2
FILENAME: 00h1pl02.dgn
PRN TABLE:
Sheet 2 of 6

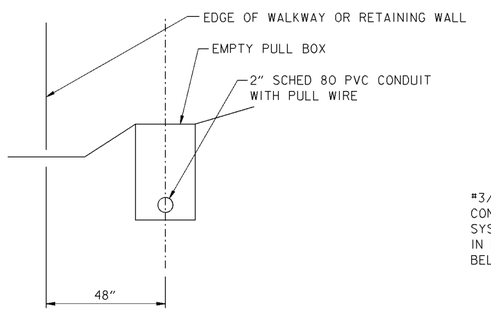
WORK AS CONSTRUCTED



PLAN

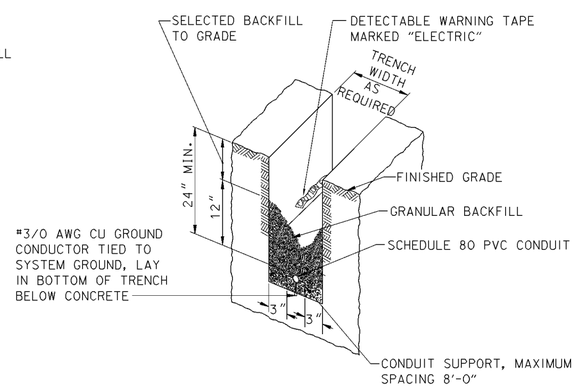
SCALE: 1" = 20'

20' 0 20'



EMPTY PULL BOX TYPICAL SECTION

SCALE: NONE



TRENCH DETAIL

SCALE: NONE

GENERAL ELECTRICAL NOTES

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE PROJECT'S ELECTRICAL CONTRACT DOCUMENTS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL BRING THE CONFLICT TO THE ATTENTION OF THE CONTRACTING OFFICER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL PROCURE ALL ELECTRICAL MATERIAL AND EQUIPMENT.

CODED NOTES

(1) DISCONNECT AND ABANDON IN PLACE CONDUIT AND WIRE TO CIRCUIT #1 - EXCEPTION: REMOVE AND DISPOSE SUFFICIENT NEW CONDUIT TO TERMINATE AT CONTROLLER ENCLOSURE IN PLACE OF EXISTING CIRCUIT #1 CONDUIT.

(2) 2" SCHEDULE 80 PVC CONDUIT, WITH PULL WIRE. SEE TRENCH DETAIL THIS SHEET.

(3) PRECAST CONCRETE PULL BOX, 16" L x 12" W MINIMUM. NORWALK CONCRETE INDUSTRIES OR APPROVED EQUAL, WITH CAST IRON MANHOLE FRAME AND SOLID LID, NEENAH FOUNDARY COMPANY OR APPROVED EQUAL, MARKED "ELECTRIC" AND WITH PENTHEAD BOLTS. PULL BOXES SHALL BE OF SUFFICIENT HEIGHT TO CONFORM TO THE TRENCH DETAIL WITH THE TOP OF FRAME AND LID FLUSH WITH FINISHED GRADE. ALSO SEE EMPTY PULL BOX TYPICAL SECTION THIS SHEET.

(4) INSTALL END CAP TO CONDUIT.

Revisions			
Symbol	Descriptions	Date	Approved
1	ADDED BY CONTRACT MODIFICATION LETTER MC009	4/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.SAMPSON
Drawn by: T.MULLINS
Checked by: E.TURNER
Reviewed by:
Approved by:

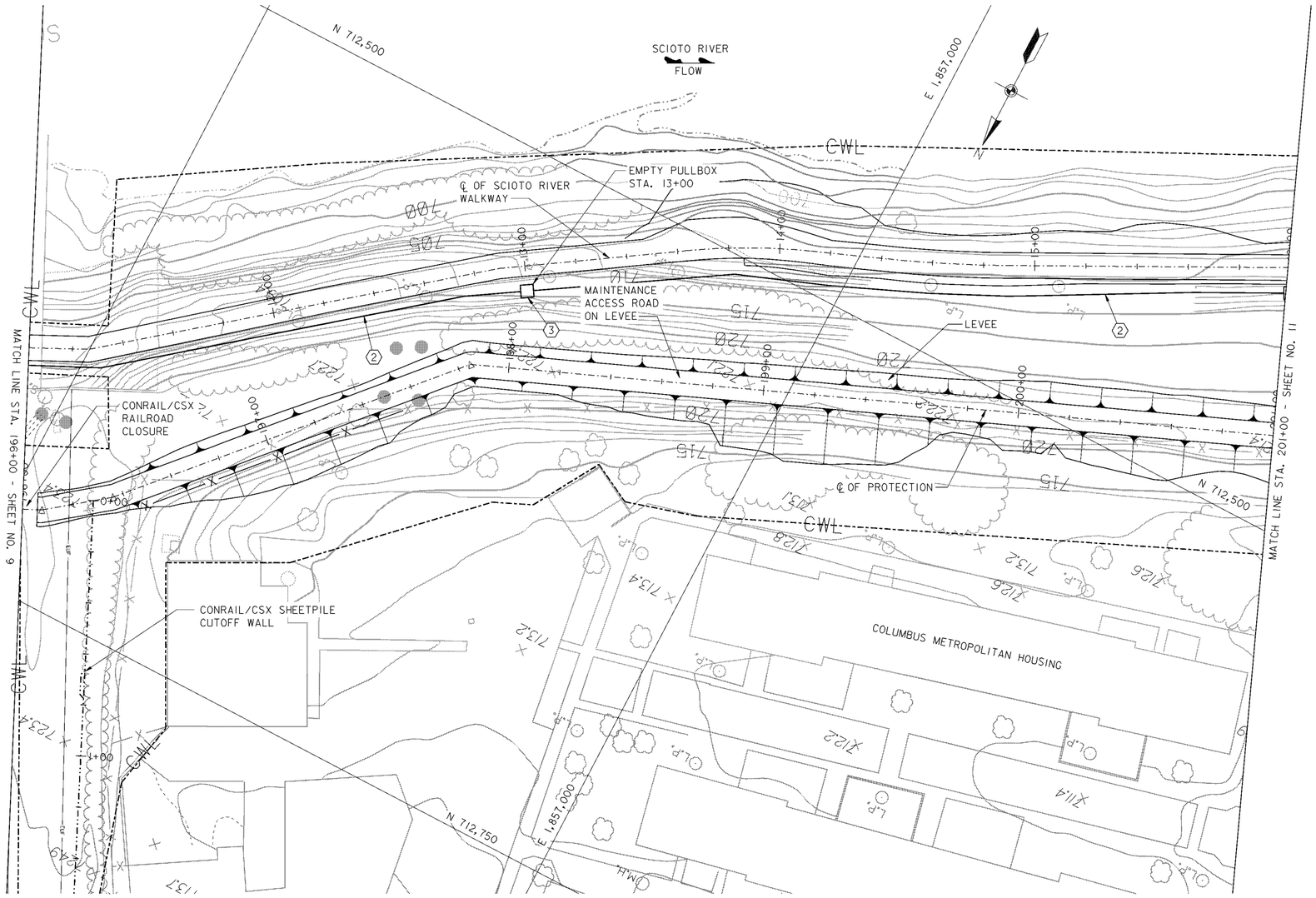
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

SCIOTO RIVER WALKWAY ELECTRICAL PLAN (1 OF 5)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.5/7
FILENAME: 00u5ep10.dgn
PEN TABLE:
Sheet 1 of 5

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'

20' 0 20'

GENERAL ELECTRICAL NOTES

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE PROJECT'S ELECTRICAL CONTRACT DOCUMENTS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL BRING THE CONFLICT TO THE ATTENTION OF THE CONTRACTING OFFICER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL PROCURE ALL ELECTRICAL MATERIAL AND EQUIPMENT.

CODED NOTES

(1) DISCONNECT AND ABANDON IN PLACE CONDUIT AND WIRE TO CIRCUIT #1 - EXCEPTION: REMOVE AND DISPOSE SUFFICIENT NEW CONDUIT TO TERMINATE AT CONTROLLER ENCLOSURE IN PLACE OF EXISTING CIRCUIT #1 CONDUIT.

(2) 2" SCHEDULE 80 PVC CONDUIT, WITH PULL WIRE. SEE TRENCH DETAIL ON DRAWING NO. 20.5/7.

(3) PRECAST CONCRETE PULL BOX, 16" L x 12" W MINIMUM. NORWALK CONCRETE INDUSTRIES OR APPROVED EQUAL, WITH CAST IRON MANHOLE FRAME AND SOLID LID, NEENAH FOUNDARY COMPANY OR APPROVED EQUAL, MARKED "ELECTRIC" AND WITH PENTHEAD BOLTS. PULL BOXES SHALL BE OF SUFFICIENT HEIGHT TO CONFORM TO THE TRENCH DETAIL WITH THE TOP OF FRAME AND LID FLUSH WITH FINISHED GRADE. ALSO SEE EMPTY PULL BOX TYPICAL SECTION ON DRAWING NO. 20.5/7.

(4) INSTALL END CAP TO CONDUIT.

Revisions			
Symbol	Descriptions	Date	Approved
◇1◇	ADDED BY CONTRACT MODIFICATION LETTER MC009	4/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.SAMPSON
Drawn by: T.MULLINS
Checked by: E.TURNER
Reviewed by:
Approved by:

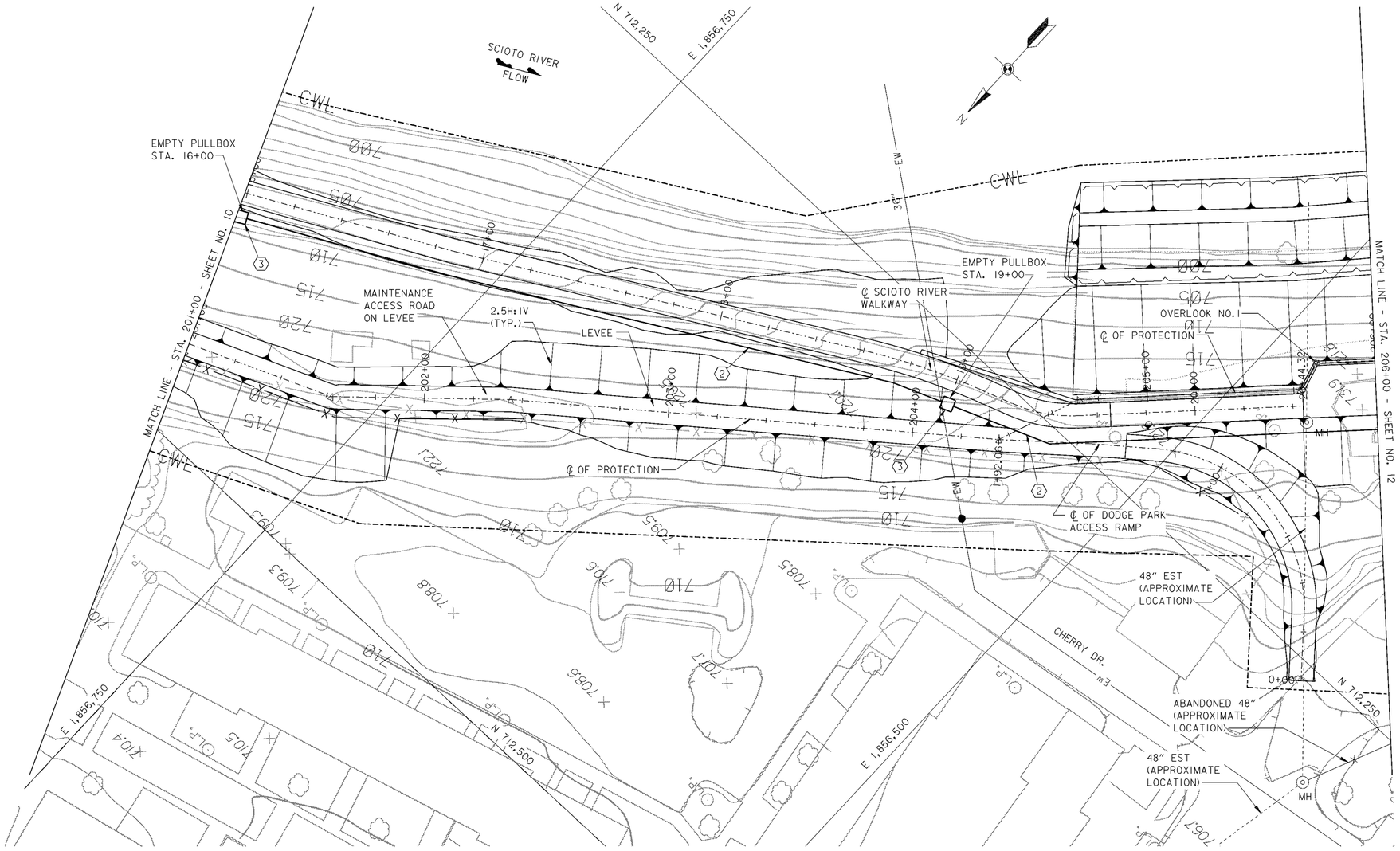
USACE US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

SCIOTO RIVER WALKWAY ELECTRICAL PLAN (2 OF 5)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.5/8
FILENAME: 00u5ep11.dgn
PEN TABLE:
Sheet 2 of 5

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'
20' 0 20'

GENERAL ELECTRICAL NOTES

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE PROJECT'S ELECTRICAL CONTRACT DOCUMENTS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL BRING THE CONFLICT TO THE ATTENTION OF THE CONTRACTING OFFICER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL PROCURE ALL ELECTRICAL MATERIAL AND EQUIPMENT.

CODED NOTES

(1) DISCONNECT AND ABANDON IN PLACE CONDUIT AND WIRE TO CIRCUIT #1 - EXCEPTION: REMOVE AND DISPOSE SUFFICIENT NEW CONDUIT TO TERMINATE AT CONTROLLER ENCLOSURE IN PLACE OF EXISTING CIRCUIT #1 CONDUIT.

(2) 2" SCHEDULE 80 PVC CONDUIT, WITH PULL WIRE. SEE TRENCH DETAIL ON DRAWING NO. 20.5/7.

(3) PRECAST CONCRETE PULL BOX, 16" L x 12" W MINIMUM. NORWALK CONCRETE INDUSTRIES OR APPROVED EQUAL, WITH CAST IRON MANHOLE FRAME AND SOLID LID, NEENAH FOUNDARY COMPANY OR APPROVED EQUAL, MARKED "ELECTRIC" AND WITH PENTHEAD BOLTS. PULL BOXES SHALL BE OF SUFFICIENT HEIGHT TO CONFORM TO THE TRENCH DETAIL WITH THE TOP OF FRAME AND LID FLUSH WITH FINISHED GRADE. ALSO SEE EMPTY PULL BOX TYPICAL SECTION ON DRAWING NO. 20.5/7.

(4) INSTALL END CAP TO CONDUIT.

Revisions			
Symbol	Descriptions	Date	Approved
1	ADDED BY CONTRACT MODIFICATION LETTER MC009	4/99	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA

Designed by: D.SAMPSON
Drawn by: T.MULLINS
Checked by: E.TURNER
Reviewed by:
Approved by:

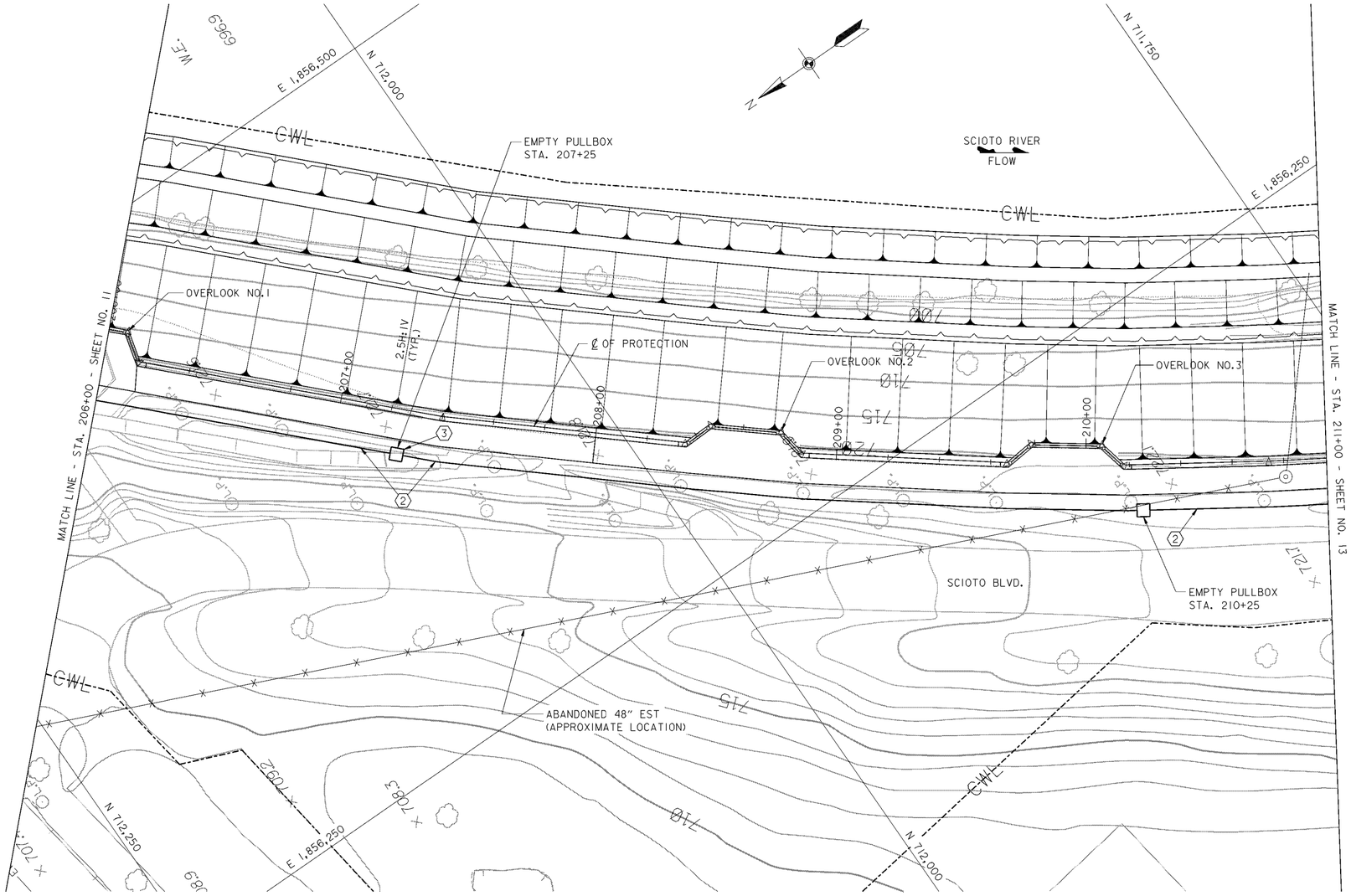
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

SCIOTO RIVER WALKWAY ELECTRICAL PLAN (3 OF 5)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.5/9
FILENAME: 00u5ep12.dgn
PEN TABLE:
Sheet 3 of 5

WORK AS CONSTRUCTED



PLAN

SCALE: 1" = 20'

20' 0 20'

GENERAL ELECTRICAL NOTES

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE PROJECT'S ELECTRICAL CONTRACT DOCUMENTS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL BRING THE CONFLICT TO THE ATTENTION OF THE CONTRACTING OFFICER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL PROCURE ALL ELECTRICAL MATERIAL AND EQUIPMENT.

CODED NOTES

(1) DISCONNECT AND ABANDON IN PLACE CONDUIT AND WIRE TO CIRCUIT #1 - EXCEPTION: REMOVE AND DISPOSE SUFFICIENT NEW CONDUIT TO TERMINATE AT CONTROLLER ENCLOSURE IN PLACE OF EXISTING CIRCUIT #1 CONDUIT.

(2) 2" SCHEDULE 80 PVC CONDUIT, WITH PULL WIRE. SEE TRENCH DETAIL ON DRAWING NO. 20.5/7.

(3) PRECAST CONCRETE PULL BOX, 16" L x 12" W MINIMUM. NORWALK CONCRETE INDUSTRIES OR APPROVED EQUAL, WITH CAST IRON MANHOLE FRAME AND SOLID LID, NEENAH FOUNDARY COMPANY OR APPROVED EQUAL, MARKED "ELECTRIC" AND WITH PENTHEAD BOLTS. PULL BOXES SHALL BE OF SUFFICIENT HEIGHT TO CONFORM TO THE TRENCH DETAIL WITH THE TOP OF FRAME AND LID FLUSH WITH FINISHED GRADE. ALSO SEE EMPTY PULL BOX TYPICAL SECTION ON DRAWING NO. 20.5/7.

(4) INSTALL END CAP TO CONDUIT.

Revisions			
Symbol	Descriptions	Date	Approved
1	ADDED BY CONTRACT MODIFICATION LETTER MC009	4/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.SAMPSON
Drawn by: T.MULLINS
Checked by: E.TURNER
Reviewed by:
Approved by:

US Army Corps of Engineers

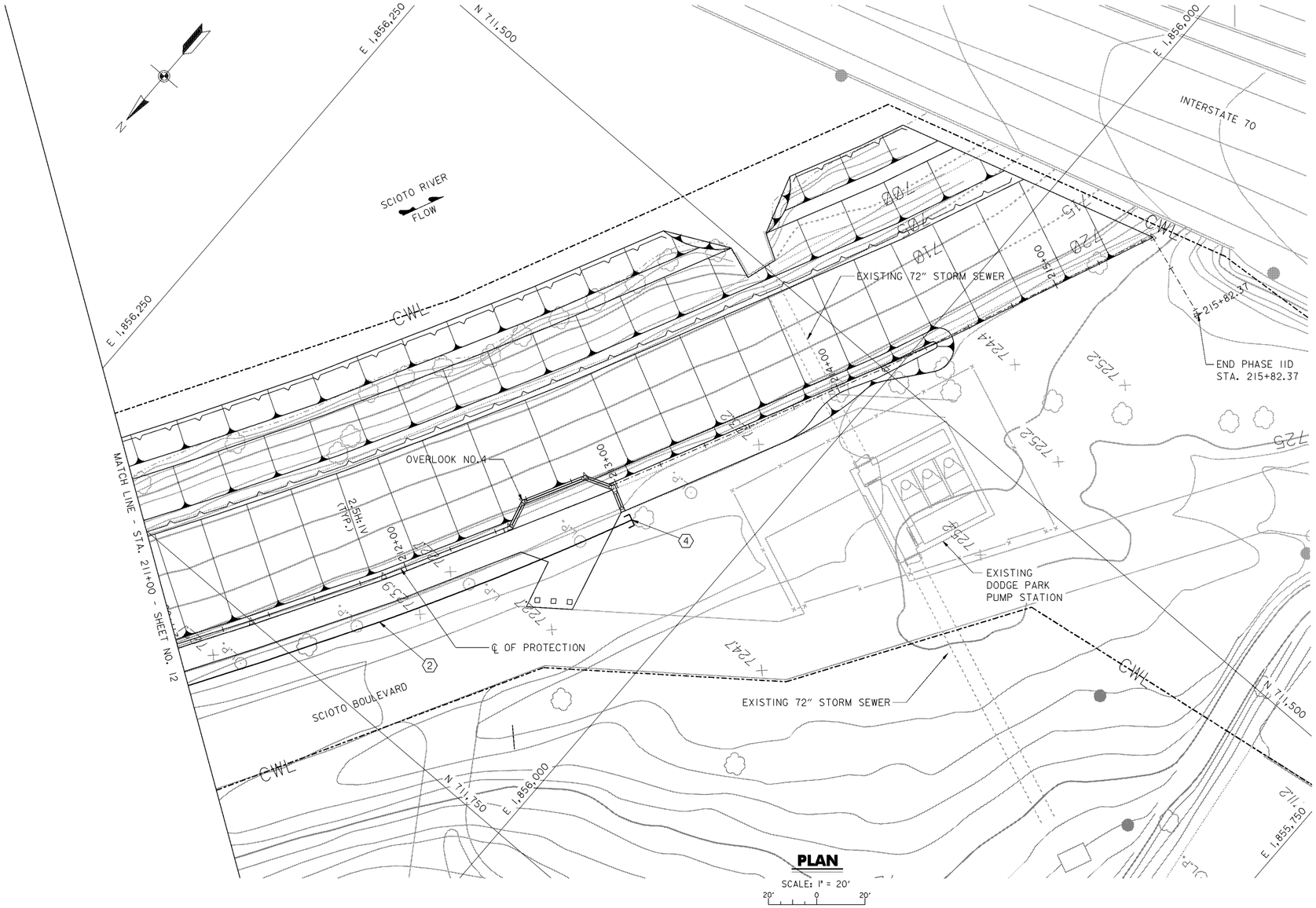
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

SCIOTO RIVER WALKWAY ELECTRICAL PLAN (4 OF 5)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.5/10
FILENAME: 00u5ep13.dgn
PIN TABLE:
Sheet 4 of 5

WORK AS CONSTRUCTED

PHASE IID SHEET 212E OF 256



GENERAL ELECTRICAL NOTES

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE PROJECT'S ELECTRICAL CONTRACT DOCUMENTS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL BRING THE CONFLICT TO THE ATTENTION OF THE CONTRACTING OFFICER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL PROCURE ALL ELECTRICAL MATERIAL AND EQUIPMENT.

CODED NOTES

(1) DISCONNECT AND ABANDON IN PLACE CONDUIT AND WIRE TO CIRCUIT #1 - EXCEPTION: REMOVE AND DISPOSE SUFFICIENT NEW CONDUIT TO TERMINATE AT CONTROLLER ENCLOSURE IN PLACE OF EXISTING CIRCUIT #1 CONDUIT.

(2) 2" SCHEDULE 80 PVC CONDUIT, WITH PULL WIRE. SEE TRENCH DETAIL ON DRAWING NO. 20.5/7.

(3) PRECAST CONCRETE PULL BOX, 16" L x 12" W MINIMUM. NORWALK CONCRETE INDUSTRIES OR APPROVED EQUAL, WITH CAST IRON MANHOLE FRAME AND SOLID LID, NEENAH FOUNDARY COMPANY OR APPROVED EQUAL, MARKED "ELECTRIC" AND WITH PENTHEAD BOLTS. PULL BOXES SHALL BE OF SUFFICIENT HEIGHT TO CONFORM TO THE TRENCH DETAIL WITH THE TOP OF FRAME AND LID FLUSH WITH FINISHED GRADE. ALSO SEE EMPTY PULL BOX TYPICAL SECTION ON DRAWING NO. 20.5/7.

(4) INSTALL END CAP TO CONDUIT.

Revisions			
Symbol	Descriptions	Date	Approved
<1>	ADDED BY CONTRACT MODIFICATION LETTER MC009	4/99	P.O.C.

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.SAMPSON
Drawn by: T.MULLINS
Checked by: E.TURNER
Reviewed by:
Approved by:

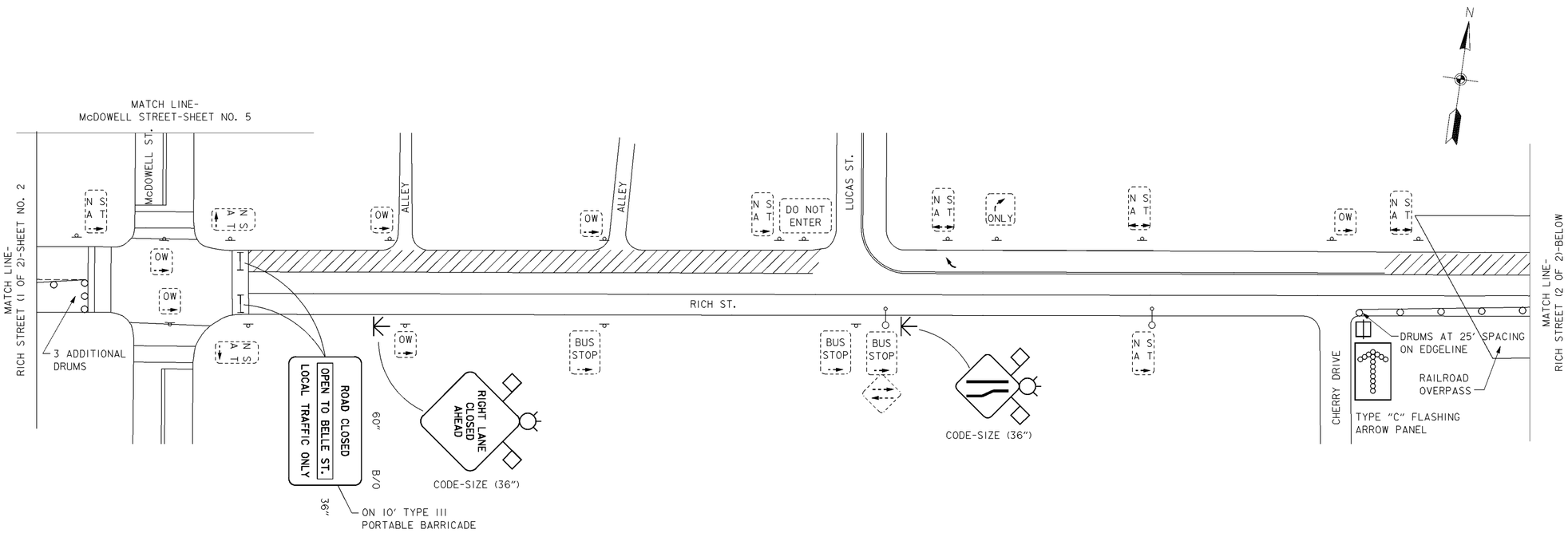
US Army Corps of Engineers

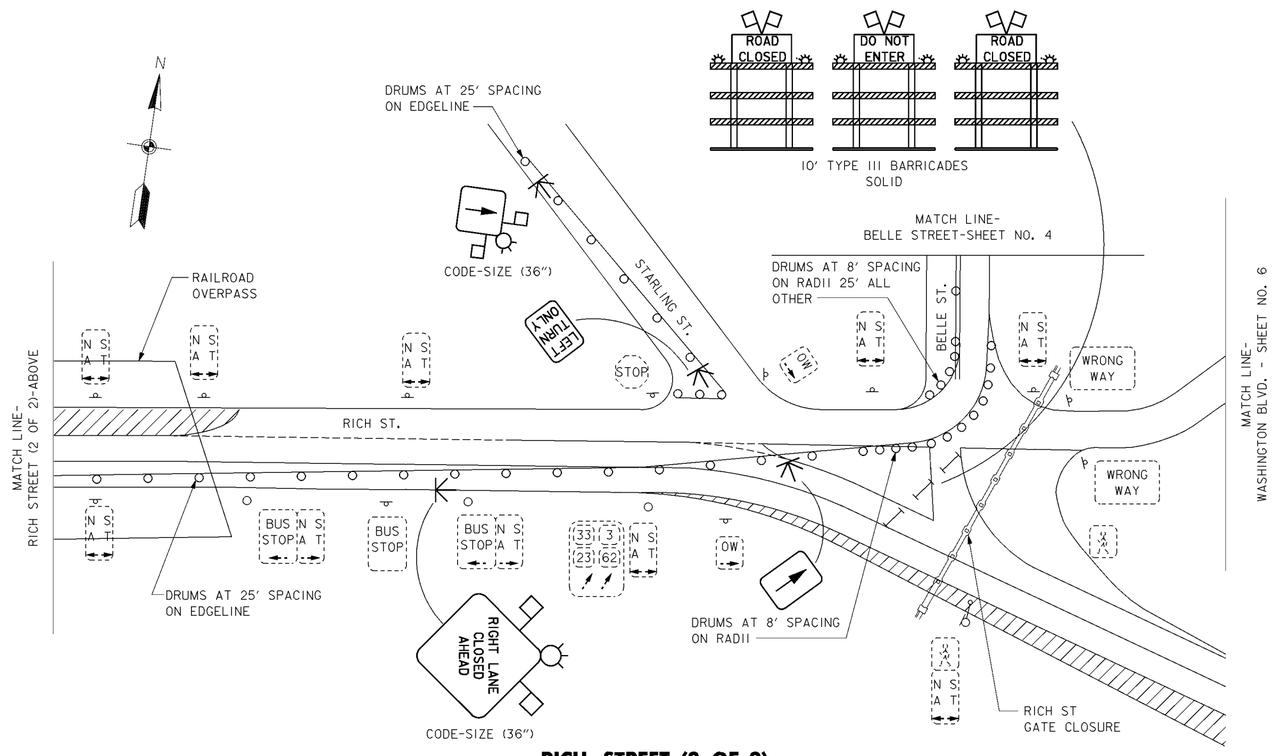
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

SCIOTO RIVER WALKWAY ELECTRICAL PLAN (5 OF 5)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 20.5/11
FILENAME: PEN TABLE: 00u5ep15.dgn
Sheet 5 of 5

WORK AS CONSTRUCTED





RICH STREET (2 OF 2)

SCALE: 1" = 30'
30' 0 30'

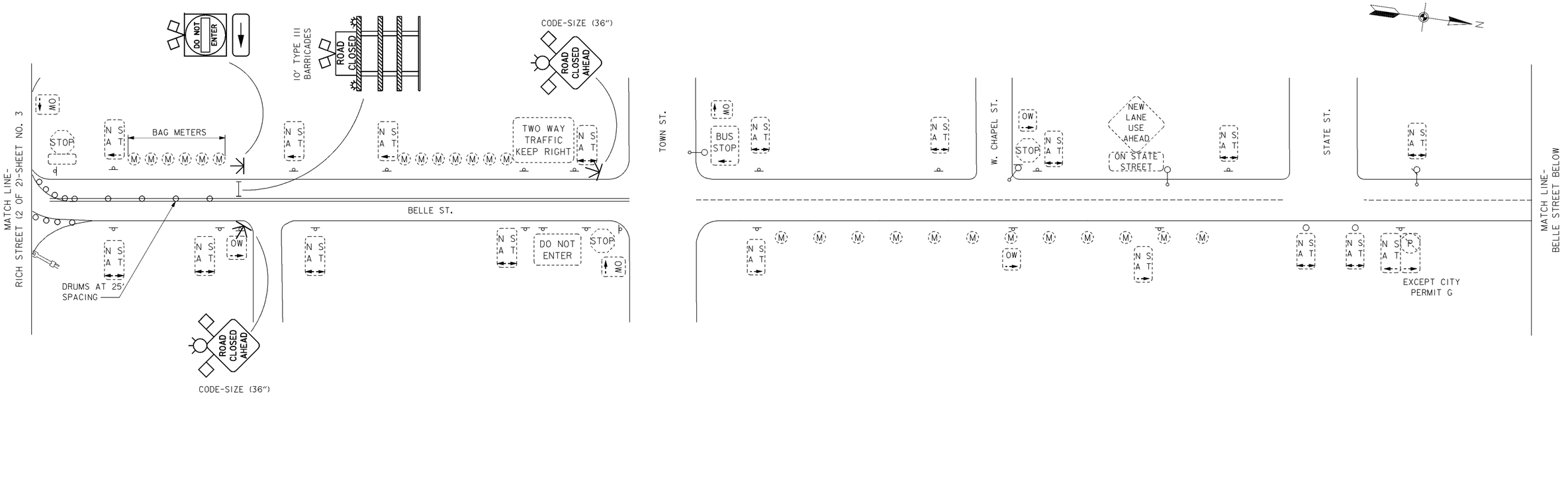
NOTES

1. STEADY-BURNING TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT.
2. SEE GENERAL NOTE 9 ON DRAWING NO.0/4 FOR TEMPORARY TRAFFIC CONTROL REQUIREMENTS.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P. CONROY	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IID
Drawn by: A.PUMMELL	MAINTENANCE OF TRAFFIC (3 OF 6)
Checked by: R.OMAN	
Reviewed by:	Scale: AS SHOWN; Sheet reference number: 92/3; FILENAME: 00h1pl03.dgn; PEN TABLE:
Approved by:	Date: MARCH 1998; Drawing Code: 16-PWC-10-; Sheet 3 of 6

WORK AS CONSTRUCTED



BELLE STREET

SCALE: 1" = 30'

30' 0 30'

NOTES

1. STEADY-BURNING TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT.
2. SEE GENERAL NOTE 9 ON DRAWING NO.0/4 FOR TEMPORARY TRAFFIC CONTROL REQUIREMENTS.
3. DETOUR SIGNS NOT SHOWN FOR CLARITY SEE DRAWING NO.92/1

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: A.PUMMELL
Checked by: R.OMAN
Reviewed by:
Approved by:

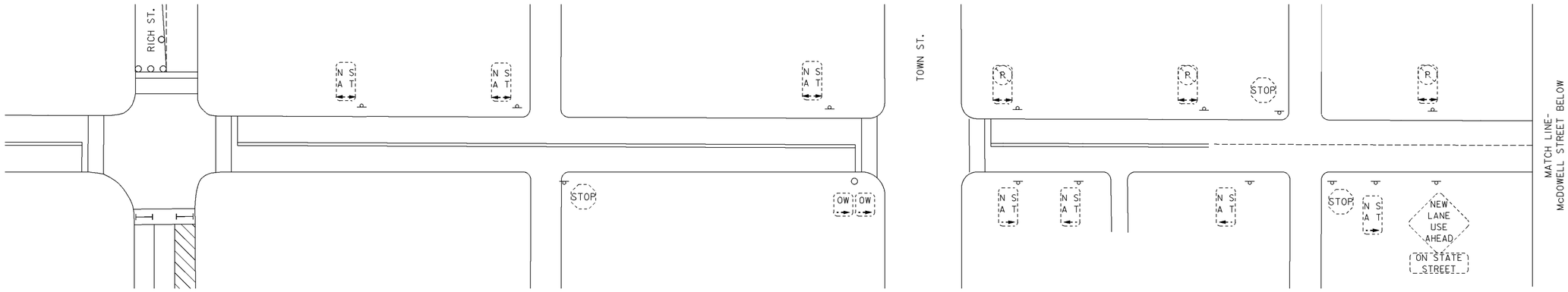
US Army Corps of Engineers

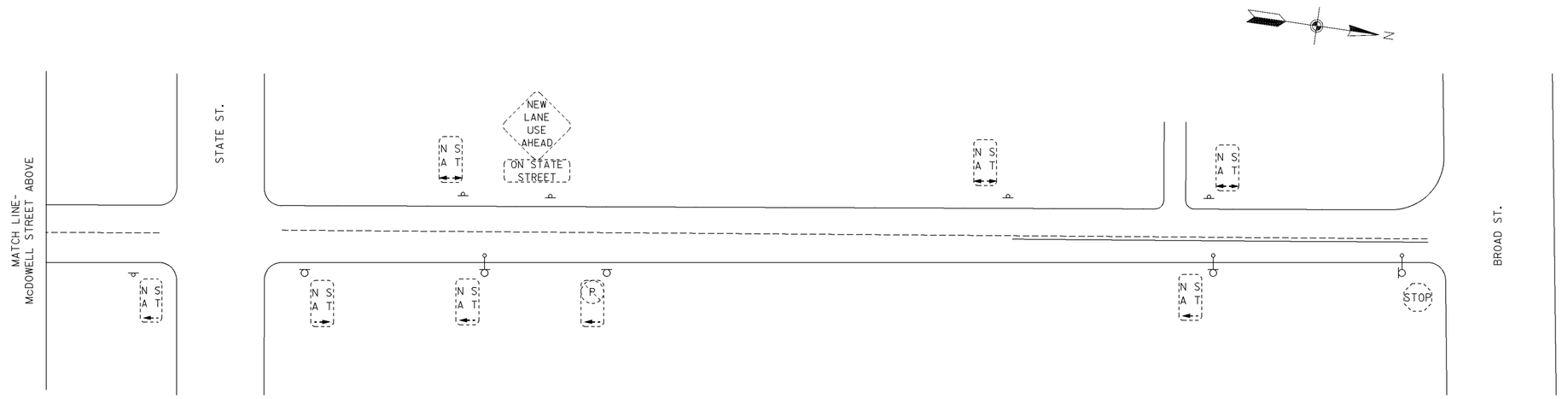
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MAINTENANCE OF TRAFFIC (4 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 92/4
FILENAME: 00h1pl04.dgn
PBN TABLE:
Sheet 4 of 6

WORK AS CONSTRUCTED





McDOWELL STREET

SCALE: 1" = 30'
30' 0 30'

NOTES

1. STEADY-BURNING TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT.
2. SEE GENERAL NOTE 9 ON DRAWING NO.0/4 FOR TEMPORARY TRAFFIC CONTROL REQUIREMENTS.
3. DETOUR SIGNS NOT SHOWN FOR CLARITY SEE DRAWING NO.92/1

FOR INFORMATION ONLY

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: A.PUMMELL
Checked by: R.OMAN
Reviewed by:
Approved by:

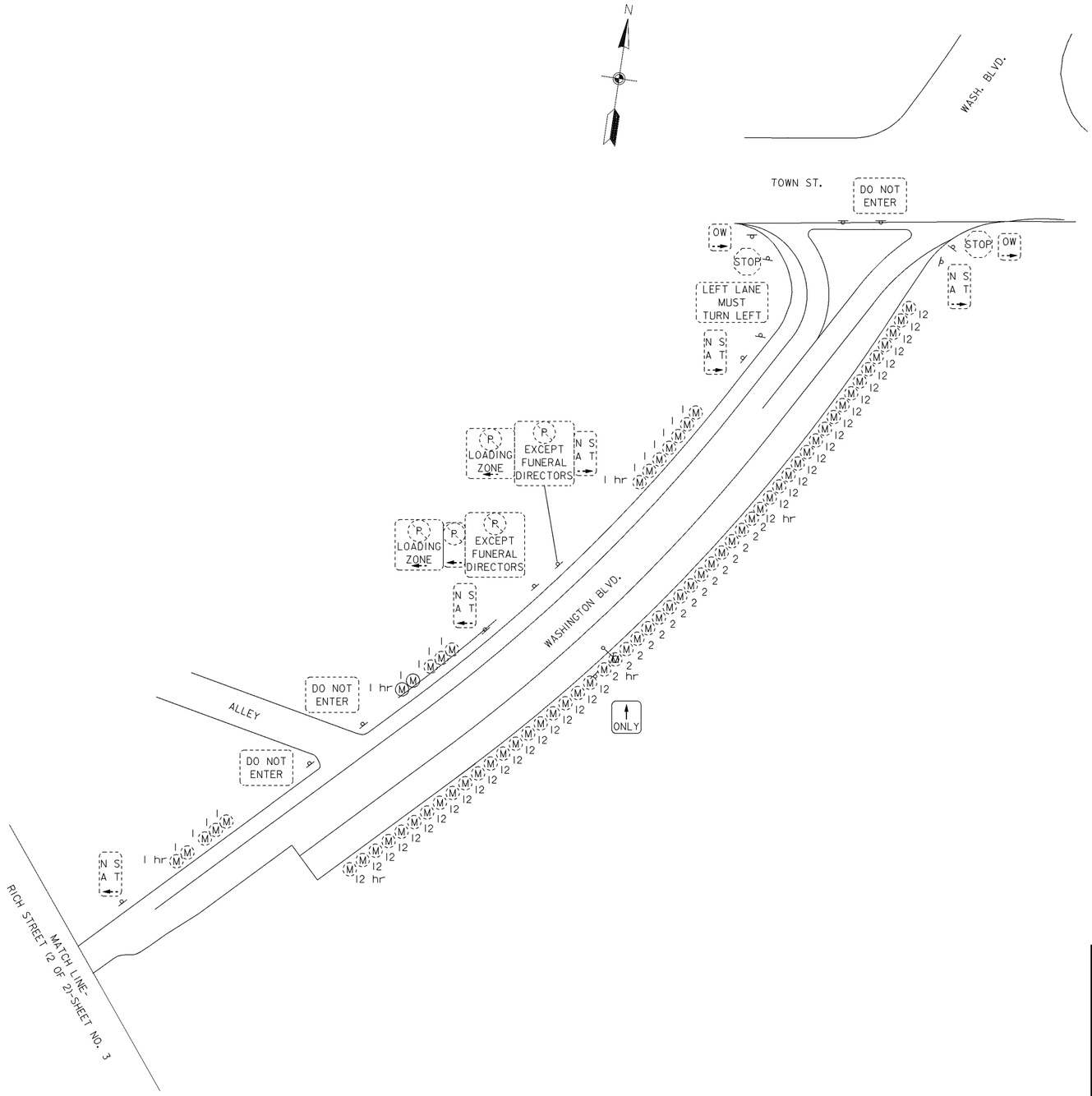
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MAINTENANCE OF TRAFFIC (5 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 92/5
FILENAME: 00h1pl05.dgn
PRN TABLE:
Sheet 5 of 6

WORK AS CONSTRUCTED



WASHINGTON BOULEVARD

SCALE: 1" = 30'
30' 0 30'

NOTES

1. STEADY-BURNING TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT.
2. SEE GENERAL NOTE 9 ON DRAWING NO.0/4 FOR TEMPORARY TRAFFIC CONTROL REQUIREMENTS.

FOR INFORMATION ONLY

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: A.PUMMELL
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

MAINTENANCE OF TRAFFIC (6 OF 6)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 92/6
FILENAME: 00h1pl06.dgn
PRN TABLE:
Sheet 6 of 6

WORK AS CONSTRUCTED

ZONE 3- EXISTING VEGETATION TO REMAIN UNDISTURBED

℄ RECREATIONAL TRAIL

ZONE 1

ZONE 2

CWL/LWL

℄ RECREATIONAL TRAIL

℄ PROTECTION

℄ PROTECTION

ZONE 2 - SEE DRAWING NOS. 20.2/30 AND 20.2/31 FOR TREE PROTECTION AND REMOVAL.

SCIOTO RIVER FLOW

VETERANS MEMORIAL

PARKING AREA

BASEBALL FIELD

WEST BROAD STREET

CONRAIL

CHESAPEAKE & OHIO

WALL

STARLING ST.

MATCH LINE - SHEET 2

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS.6/1 THRU 6/4.
3. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR RECREATIONAL TRAIL AND VETERANS MEMORIAL PATH LAYOUT SEE DRAWING NOS. 16/50 AND 16/51 AND 20.2/35 THRU 20.2/37.
5. AREAS NOT DESIGNATED SHALL BE ZONE 3.
6. FOR CLEARING AND GRUBBING REQUIREMENTS IN ZONES 1, 2 AND 3 SEE SECTION 02110 OF THE SPECIFICATIONS.

LEGEND

ZONE 1

ZONE 2

ZONE 3

PLAN

SCALE: 1" = 50'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

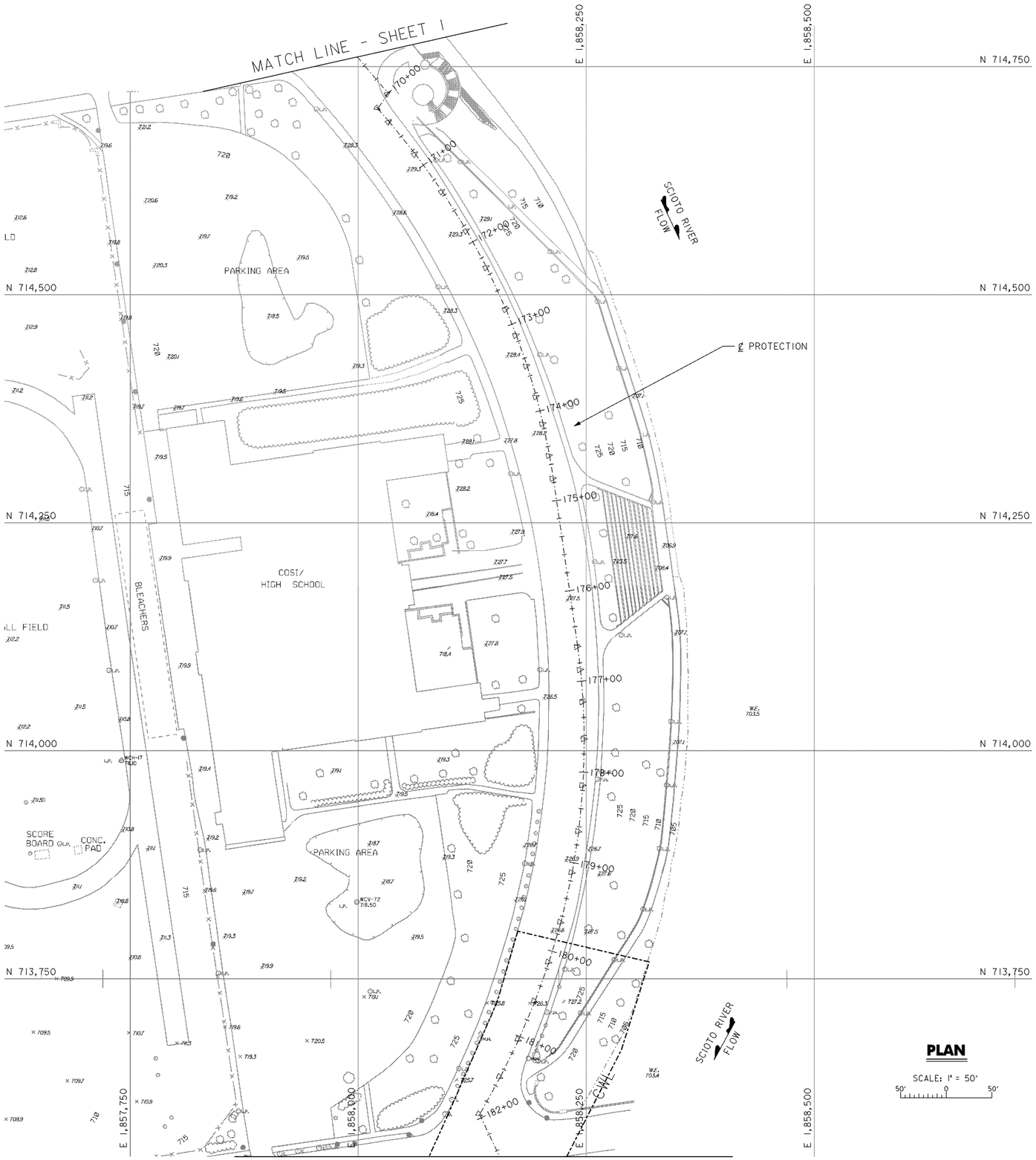
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CLEARING PLAN (1 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 107/1
FILENAME: PEN TABLE: 00clpa01.dgn
Sheet 1 of 4

WORK AS CONSTRUCTED



N

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS.6/1 THRU 6/4.
3. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
4. NO CLEARING AND GRUBBING REQUIRED THIS DRAWING.
5. AREAS NOT DESIGNATED SHALL BE ZONE 3.

PLAN

SCALE: 1" = 50'

50' 0 50'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CLEARING PLAN (2 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 107/2
FILENAME: 00clpa02.dgn
PEN TABLE:
Sheet 2 of 4

WORK AS CONSTRUCTED

MATCH LINE - SHEET 2

N 713,500
N 713,250
N 713,000
N 712,750
N 712,500
E 1,857,000
E 1,857,250
E 1,857,500
E 1,857,750
E 1,858,000
E 1,858,250
E 1,858,500

TOWN STREET
HEALTH CENTER
RICH STREET
CHESAPEAKE & OHIO
CONRAIL
MAIN STREET WEIR
SCIOTO RIVER FLOW
CWL

ZONE 1
ZONE 2 (SEE NOTE 5)
ZONE 3

ZONE 3- EXISTING VEGETATION TO REMAIN UNDISTURBED (SEE NOTE 5)

ZONE 3- EXISTING VEGETATION TO REMAIN UNDISTURBED EXCEPT FOR CONSTRUCTION OF SANITARY FORCE MAIN AND SCIOTO RIVER WALKWAY.

℄ PROTECTION

MATCH LINE - SHEET 4

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS.6/1 THRU 6/4.
3. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
4. AREAS NOT DESIGNATED SHALL BE ZONE 3.
5. SEE DRAWING NO. 16/9 FOR ADDITIONAL CLEARING REQUIREMENTS AT RICH STREET PARK.
6. FOR CLEARING AND GRUBBING REQUIREMENTS IN ZONES 1, 2 AND 3 SEE SECTION 02110 OF THE SPECIFICATIONS.

LEGEND

- ZONE 1
- ZONE 2
- ZONE 3

PLAN

SCALE: 1" = 50'
50' 0 50'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.OMAN
Reviewed by:
Approved by:

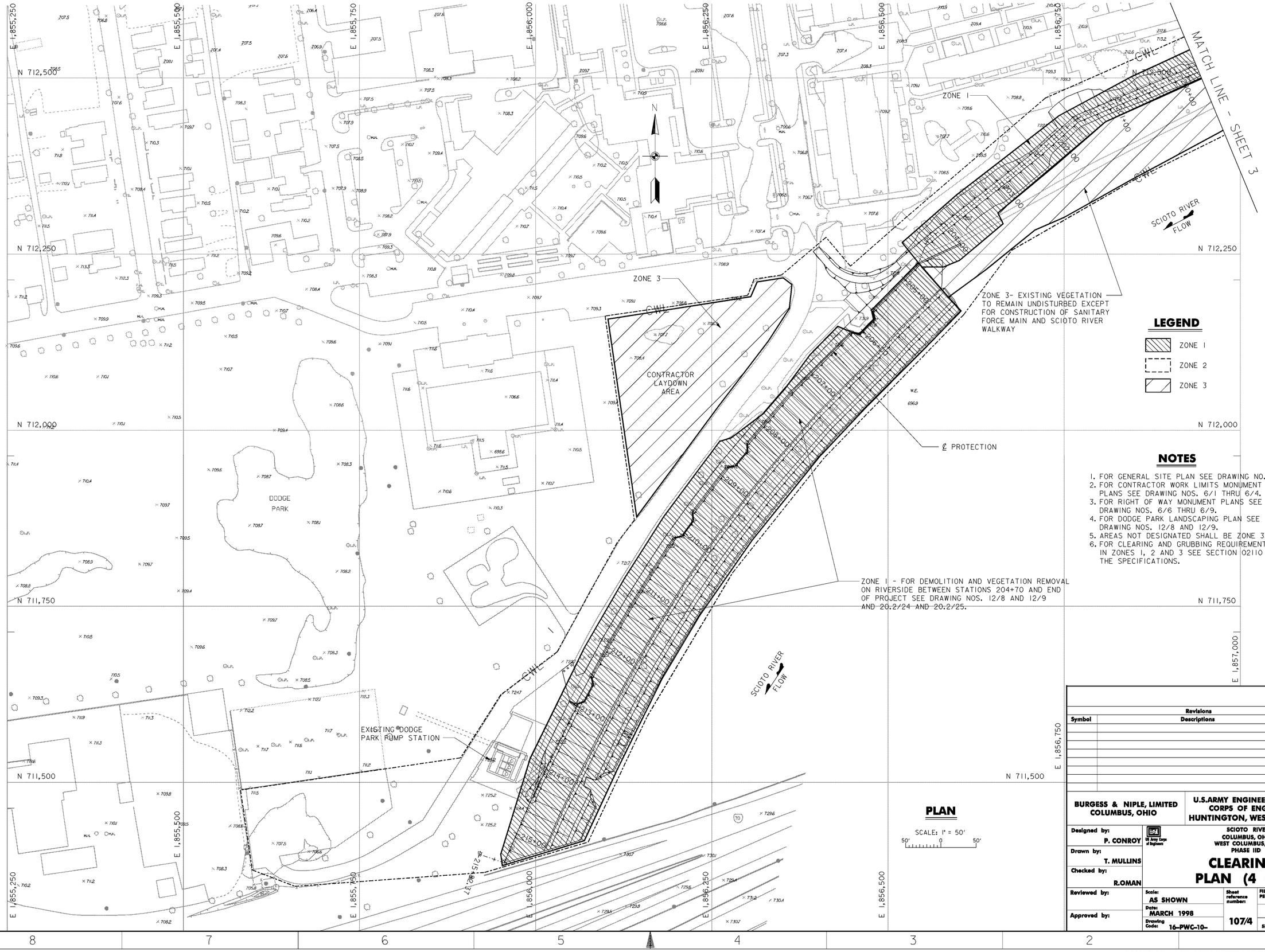
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CLEARING PLAN (3 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 107/3
FILENAME: 00clpa03.dgn
PBN TABLE:
Sheet 3 of 4

WORK AS CONSTRUCTED



NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/4.
3. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR DODGE PARK LANDSCAPING PLAN SEE DRAWING NOS. 12/8 AND 12/9.
5. AREAS NOT DESIGNATED SHALL BE ZONE 3.
6. FOR CLEARING AND GRUBBING REQUIREMENTS IN ZONES 1, 2 AND 3 SEE SECTION 02110 OF THE SPECIFICATIONS.

PLAN

SCALE: 1" = 50'
50' 0 50'

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: P. CONROY
Drawn by: T. MULLINS
Checked by: R.ROMAN
Reviewed by:
Approved by:

US Army Corps of Engineers

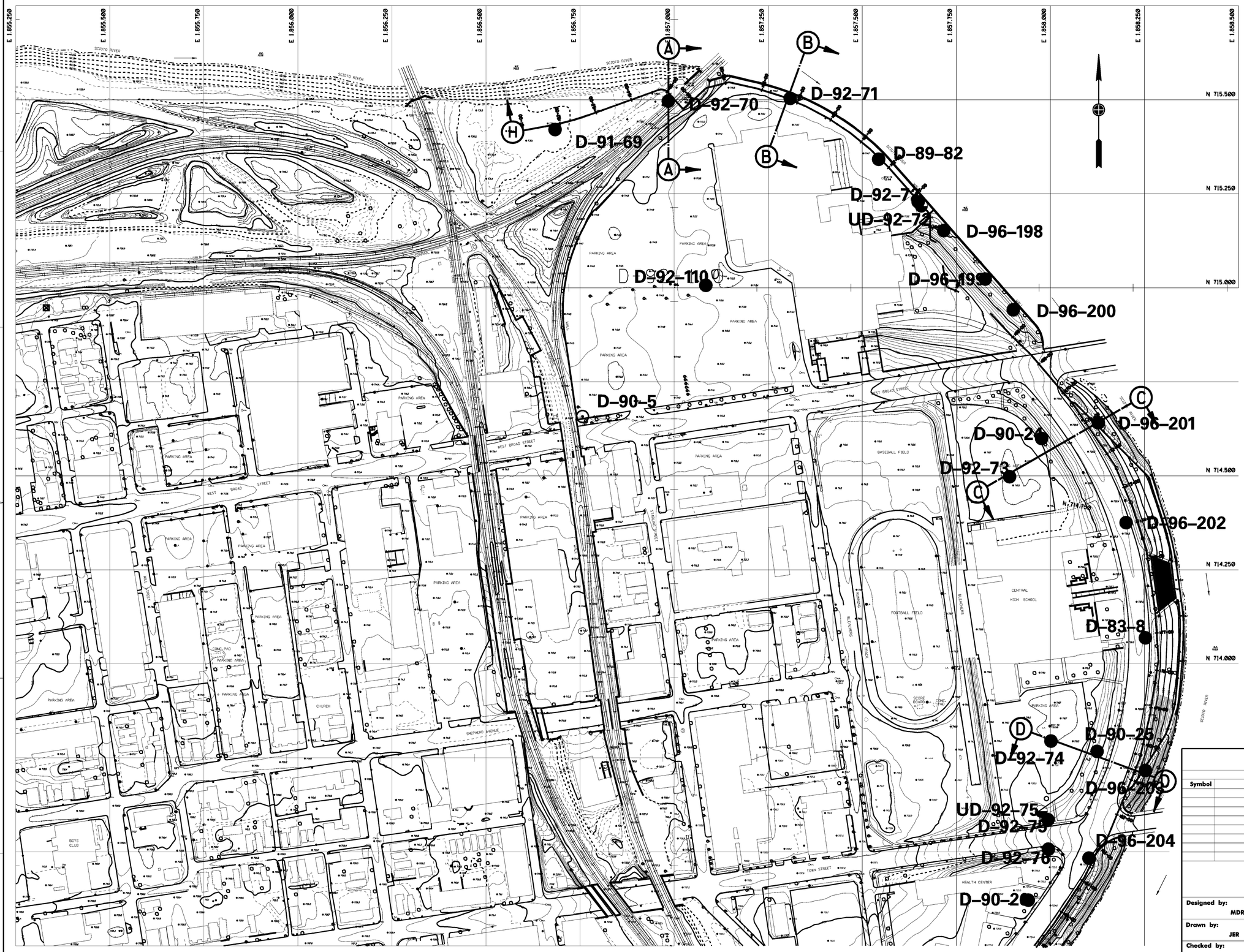
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

CLEARING PLAN (4 OF 4)

Scale: AS SHOWN
Date: MARCH 1998
Drawing Code: 16-PWC-10-
Sheet reference number: 107/4
FILENAME: 00clpa04.dgn
PEN TABLE:
Sheet 4 of 4

WORK AS CONSTRUCTED

PHASE IID SHEET 223 OF 256



MATCH LINE SHEET 2

LEGEND

- ● DISTURBED BORING
- ⊙ DISTURBED BORING w/PIEZOMETER
- ◒ UNDISTURBED BORING

100' 50' 0 100' 200'

SCALE: 1"=100'-0"

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: MDR
Drawn by: JER
Checked by: GAH
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS L.P.P.
PHASE IID

BORING LOCATION PLAN

Scale: AS SHOWN
Date: MAR 1997
Drawing Code: O16-PWC-10
Sheet reference number: 101
FILENAME: r5bplan1.dgn
PEN TABLE:
Sheet 1 of 2

MATCH LINE SHEET 1

LEGEND

- ● DISTURBED BORING
- ⊙ DISTURBED BORING w/PIEZOMETER
- ◒ UNDISTURBED BORING

100 50 0 100 200
SCALE: 1"=100'-0"

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: MDR
Drawn by: JER
Checked by: GAH
Reviewed by:
Approved by:

US Army Corps of Engineers

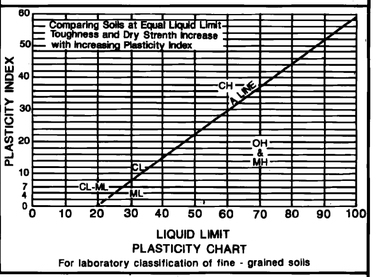
SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

BORING LOCATION PLAN

Scale: AS SHOWN
Date: DEC 1996
Drawing Code: 016-PWC-10
Sheet reference number: 102
FILENAME: r5bplan2.dgn
PEN TABLE:
Sheet 2 of 2

UNIFIED SOIL CLASSIFICATION

Including Identification and Description

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES	FIELD IDENTIFICATION PROCEDURES Excluding particles larger than 3 inches and basing fractions on estimated weights	INFORMATION REQUIRED FOR DESCRIBING SOILS	LABORATORY CLASSIFICATION CRITERIA
1	2		3	4	5	6	7
COARSE - GRAINED SOILS More than half of material is larger than No. 200 sieve size	GRAVELS More than half of coarse fraction is smaller than No.4 sieve size. (For visual classification, the 1/4-inch size may be used as equivalent to the No.4 sieve size.)	Clean Gravels (Little or no fines)	GW	Well - graded gravels, gravel - sand mixtures, little or no fines.	Wide range in grain sizes and substantial amounts of all intermediate particle sizes.	For undisturbed soils add information on stratification, degree of compactness, cementation, moisture conditions and drainage characteristics.	Determine percentages of gravel and sand from grain size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size) coarse-grained soils are classified as follows: Less than 5%: GW, GP, SW, SP; More than12%: GM, GC, SM, SC; 5% to 12%: Borderline cases requiring use of dual symbols. $C_u = \frac{D_{60}}{D_{10}}$ Greater than 4; $C_c = \frac{(D_{30})^2}{D_{10} D_{60}}$ Between one and 3
			GP	Poorly - graded gravels, gravel - sand mixtures, little or no fines.	Predominantly one size or a range of sizes with some intermediate sizes missing.		
		Gravels with Fines (Appreciable amount of fines)	GM	Silty gravels, gravel - sand - silt mixtures.	Nonplastic fines or fines with low plasticity (for identification procedures see ML below).	Give typical name; indicate approximate percentage sand and gravel, max. size; angularity, surface condition, and hardness of the coarse grains; local or geologic name and other pertinent descriptive information; and symbol in parentheses.	Not meeting all gradation requirements for GW. Atterberg limits below "A" line or PI less than 4; Above "A" line with PI between 4 and 7 are borderline cases requiring use of dual symbols. Atterberg limits above "A" line with PI greater than 7
			GC	Clayey gravels, gravel - sand - clay mixtures.	Plastic fines (for identification procedures see CL below).		
	SANDS More than half of coarse fraction is smaller than No.4 sieve size.	Clean Sands (Little or no fines)	SW	Well - graded sands, gravelly sands, little or no fines.	Wide range in grain size and substantial amounts of all intermediate particle sizes.	EXAMPLE Silty sand, gravelly; about 20% hard, angular gravel particles 1/2-in. max. size; rounded and subangular sand grains coarse to fine; about 15% nonplastic fines with low dry strength ; well compacted and moist in place; alluvial sand (SM).	$C_u = \frac{D_{60}}{D_{10}}$ Greater than 6; $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between one and 3
			SP	Poorly - graded sands, gravelly sands, little or no fines.	Predominantly one size or a range of sizes with some intermediate sizes missing.		
		Sands with Fines (Appreciable amount of fines)	SM	Silty sands, sand - silt mixtures.	Nonplastic fines or fines with low plasticity (for identification procedures see ML below).		Not meeting all gradation requirements for SW. Atterberg limits below "A" line or PI less than 4; Limits plotting in hatched zone with PI between 4 and 7 are borderline cases requiring use of dual symbols. Atterberg limits above "A" line with PI greater than 7
			SC	Clayey sands, sand - clay mixtures.	Plastic fines (for identification procedures see CL below).		
FINE - GRAINED SOILS More than half of material is smaller than No. 200 sieve size. The No. 200 sieve size is about the smallest particle visible to the naked eye.					on Fraction Smaller than No. 40 Sieve Size: (crushing) / DILATANCY (reaction to shaking) / TOUGHNESS (consistency near PL)		Use grain-size curve in identifying the fractions as given under field identification.
	Silts and Clays Liquid Limit Less than 50		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.	None to slight / Quick to slow / None	Give typical name, indicate degree and character of plasticity, amount and maximum size of coarse grains, color in wet condition, odor if any, local or geologic name, and other pertinent descriptive information, and symbol in parentheses. For undisturbed soils add information on structure, stratification, consistency in undisturbed and remolded states, moisture and drainage conditions. EXAMPLE Clayey silt, brown, slightly plastic, small percentage of fine sand, numerous vertical root holes, firm and dry in place.Loess (ML)	 PLASTICITY CHART For laboratory classification of fine - grained soils
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.	Medium to high / None to slow / Medium		
			OL	Organic silts and organic silty clays of low plasticity.	Slight to medium / Slow / Slight		
	Silts and Clays Liquid Limit Greater than 50		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.	Slight to medium / Slow to none / Slight to medium		
			CH	Inorganic clays of high plasticity, fat clays.	High to very high / None / High		
			OH	Organic clays of medium to high plasticity, organic silts.	Medium to high / None to very slow / Slight to medium		
Highly Organic Soils			Pt	Peat and other highly organic soils.	Readily identified by color, odor spongy feel and frequently by fibrous texture.		

(1) Boundary classifications: Soils possessing characteristics of two groups are designated by combinations of group symbols. For example GW-GC, well-graded gravel-sand mixture with clay binder (2) All sieve sizes on this chart are U.S. standard.

FIELD IDENTIFICATION PROCEDURES FOR FINE - GRAINED SOILS OR FRACTIONS

These procedures are to be performed on the minus No. 40 sieve size particles, approximately 1/64 in. for field classification purposes, screening is not intended , simply remove by hand the coarse particles that interfere with the tests.

DILATANCY (reaction to shaking)

After removing particles larger than No. 40 sieve size, prepare a pat of moist soil with a volume of about one-half cubic inch. Add enough water if necessary to make the soil soft but not sticky.

Place the pat in the open palm of one hand and shake horizontally, striking vigorously against the other hand several times. A positive reaction consists of the appearance of water on the surface of the pat which changes to a livery consistency and becomes glossy. When the sample is squeezed between the fingers, the water and gloss disappear from the surface, the pat stiffens, and finally cracks or crumbles. The rapidity of appearance of water during shaking and of its disappearance during squeezing assist in identifying the character of the fines in a soil.

Very fine clean sands give the quickest and most distinct reaction whereas a plastic clay has no reaction. Inorganic silts, such as a typical rock flour show a moderately quick reaction.

DRY STRENGTH (crushing characteristics)

After removing particles larger than No. 40 sieve size, mold a pat of soil to the consistency of putty, adding water, if necessary. Allow the pat to dry completly by oven, sun, or air drying, and then test its strength by breaking and crumbling between the fingers. This strenth is a measure of the character and quantity of the colloidal fraction contained in the soil. The dry strength increases with increasing plasticity.

High dry strength is characteristic for clays of the CH group. A typical inorganic silt possesses only very slight dry strength. Silty fine sands and silts have about the same slight dry strength, but can be distinguished by the feel when powdering the dried specimen. Fine sand feels gritty whereas a typical silt has the smooth feel of flour.

TOUGHNESS (consistency near plastic limit)

After removing particles larger than the No. 40 sieve size, a specimen of soil about one-half inch cube in size, is molded to the consistency of putty. If too dry, water must be added and if sticky, the specimen should be spread out in a thin layer and allowed to lose some moisture by evaporation. Then the specimen is rolled out by hand on a smooth surface or between the palms into a thread about one-eight inch in diameter. The thread is then folded and rerolled repeatedly. During this manipulation the moisture content is gradually reduced and the specimen stiffens, finally loses its plasticity, and crumbles, when the plastic limit is reached.

After the thread crumbles, the pieces should be lumped together and a slight kneading action continued until the lump crumbles.

The tougher the thread near the plastic limit and the stiffer the lump when it finally crumbles, the more potent is the colloidal clay fraction in the soil. Weakness of the thread at the plastic limit and quick loss of coherence of the lump below the plastic limit indicate either inorganic clay of low plasticity, or materials such as kaolin-type clays and organic clays which occur below the A-line.

Highly organic clays have a very weak and spongy feel at the plastic limit.

Adopted by the Corps of Engineers and Bureau of Reclamation, January 1952.

ABBREVIATIONS

a.	angle	f.	fine	mot.	mottled
alt.	alternate(ly)(ing)	fer.	ferruginous	mst.	moist
amt.	amount	fis.	fissile	mtx.	matrix
ang.	angular	fil.	fill(ed)(ing)		
approx.	approximate(ly)	fm.	firm	n.	near
ar.	argillaceous	fos.	fossil(iferous)	nod.	nodule(s)
aren.	arenaceous	frac.	fracture(d)	num.	numerous
asp.	asphaltic	fragS.	fragment(s)(al)		
		fri.	friable	o.	open
b.	bone	FP	fixed-piston	od.	odor
ba.	banded(ing)	FW	free water	occ.	occasional(ly)
bd.	bed(ded)(ing)			occu.	occurring
bdr.	bedrock	g.	grain(ed)	org.	organic
bf.	buff	gen.	generally		
bk.	black	gn.	green(ish)	pa.	parting(s)
bky.	blocky	gr.	gray	part.	particle(s)
bkn.	broken	gra.	gravelly	%	percent(age)
bl.	blue	grad.	grading(ed)	pi.	piece
bot.	bottom	GW	groundwater	pl.	plastic
bou.	boulder(s)			PL	plastic limit
bre.	breccia(ted)	h.	hard	peb.	pebble(s)
br.	brown(ish)	ha.	high angle	pk.	pink
		hi.	high(er)(ly)	pkt.	pocket(s)
c.	coarse	hor.	horizontal(ly)	pit.	pit(ted)(ting)
ca.	calcareous			pn.	plane(s)
carb.	carbonaceous	I C	initial contact	po.	porous
cav.	cavern, cavity	inc.	included, inclusions	pt.	part(ly)
cbl.	cobble(y)	incr.	increasing(ly)	pyr.	pyrite(ic)
ch.	chert	inla.	interlaminated		
cl.	clay(ey)	int.	intercalations	q.	quartz(itic)
clb.	claybands	intbd.	interbedded		
cle.	clean	irr.	irregular	r.	red(dish)
coa.	coat(ed)(ing)			ro.	rock(s)
comp.	compact(ed)	jt.	joint(ed)	rot.	rotted(en)
con.	contains			rou.	round(ed)
conc.	concretion	l.	low	rt.	root(s)(let)
cong.	conglomerate(ic)	li.	little		
cont.	continuous	la.	low angle	s.	soft
cr.	crushed	las.	laminate(ed)(ions)	SS	split spoon
crm.	crumbly	lay.	layer(s)	sa.	sandy
cst.	crystal(line)	le.	lean	sat.	saturated
cem.	cement(ed)	lea.	leached	scat.	scattered
		len.	lense(s)	se.	seams
dc.	decayed	lg.	large	sev.	severe(ly)
di.	dirty	LL	liquid limit	sevr.	several
dia.	diameter	los.	loose	sh.	shaly
diag.	diagonal	lt.	light	she.	shells
dis.	disintegrated			sil.	siliceous
disc.	discontinuous	m.	medium	si.	silty
diss.	disseminated	ma.	many	slk.	slickensided
dk.	dark	maa.	massively	sm.	small
dn.	dense	mat.	material	so.	some
dmp.	damp	mic.	micaceous	sol.	solution
		min.	mineralized	sta.	stain(ed)
ext.	extremely	mod.	moderate(ly)	stf.	stiff
elem.	elements	mos.	mostly	stks.	streak(s)
				str.	stringer(s)
				sty.	stylolite(ic)
				t.	thin
				tho.	throughout
				tk.	thick
				tr.	trace
				v.	variably
				va.	variegated
				ve.	very
				veg.	vegetation
				ver.	vertical(ly)
				vu.	vuggy
				w.	water
				w/	with
				w/o	without
				WC	water content
				wd.	weathered
				WH	weight of hammer
				whi.	white
				WL	water level
				wo.	wood
				x-bd.	cross-bedded(ing)
				y.	yellow(ish)
				z.	zone

NUMBER AND TYPE OF EXPLORATIONS

CODE	YEAR	HOLE NO.	DESIGNATION
C	91	39	Core hole in bedrock
D	91	39	Disturbed sample boring
CD	91	39	Disturbed sample boring (Percussion Drill/Cable Tool Drill)
UD	91	39	Undisturbed sample boring
A	91	39	Auger hole hand or power auger, 2" to 24" diameter
			Core hole in bedrock, hydraulic pressure tested
			Indicates angle boring shows direction
			Boring with Piezometer
			Boring with Inclinometer
TP	91	42	Test Pit in overburden
TT	91	7 - 135	Test Trench in overburden (TT-91-7), soils classified at stationing as shown (135 feet)
UD	91	39	Undisturbed sample boring with Piezometer

ROCK

NAME	ABBREVIATION
SANDSTONE	SS.
CONGLOMERATE	CONG.
SHALE	SH.
SILTSTONE	SLS.
CLAYSTONE	CLS.
LIMESTONE	LS.
COAL	C.
INDURATED CLAY	ICL.
DOLOMITE	DO.

ROCK & GRAPHIC LOG OF BORING LEGEND

- Broken in drilling or handling
- Natural break bedding plane or fracture
- Core loss
- Natural joint or fracture
- Core fragments Insitu breaks or broken in drilling or handling
- Shaly (fissile)
- F - Mylonite, fault-plane
- Intact core

GRAPHIC LOG OF BORING

Vertical or Degrees From — Drill Hole Compass Direction

Core Size: 4-Inch
Batter: Vertical
Direction:
Date Started: 26 Oct. 1979
Completed: 1 Nov. 1979

PROJECT: SAMPLE LOG
HOLE NO.: C-87-39

Sampler: 2" S.S.
Drop: 30"
Hammer: 140#
Coordinates
N. 557,930.2
E. 1,738,407.9

— Sampler Data
— Location

ELEVATION (Feet)	SYMBOL	Rock Structural Elem.	DESCRIPTION OF MATERIALS	REMARKS: W.C.	L.L.	P.L.	% 4	% SAND	% 200	BLOWS
549.1										
			CLAY (CL), br., pl., mst., w/ f.g.-c.g. SAND, ro. frags. to 1"			19				3 4-5
	CL				41					
541.8				18.3						
			SILTY SANDY GRAVEL (GM), gr., non pl., dmp., f.g.-c.g. ang. to subangular							
	GM		GRAVEL, f.g.-c.g. SAND				4	96		
535.1							42	33	25	
			W.L. 7-1-87 I.C.							
	NS		DRILLING W/O SAMPLING							
529.1										
	NS		SAMPLED - NO RECOVERY							1 3-0
525.2										
	SH		Shale, silty, soft to mod. hard, gray, poorly fissile with clayey zones.	ROD LOSS 28	LO.7					
			0.8' sandy SILTSTONE zone at 523.3 to 522.7							
			0.5' partially broken along vertical fracture from 521.2 to 520.7							
			Unweathered, vertical fracture from 518.3 to 517.1	80	LO.1					
516.9				L.D.W. 100%						
	SS		SANDSTONE , hard, fine to medium grained, gray, micaceous, thick bedded with micaceous, laminations.	92	LO.0					
			Very fine grained and silty to 513.2 1.6' zone with numerous micaceous laminations from 512.9 to 511.3	R.D.W.						
			0.3' broken, very friable zone & unweathered fracture from 509.2 to 508.9	100	LO.0					

TOP OF ROCK

DEPTH	PSI	CFM
26.0		
	14	1.1
31.0		
	16	0.3
36.0		
	19	0.0
41.0		

BOTTOM OF HOLE

SHEET 1 OF 1

— Blow Count per Half Foot
— Plastic Limit (P.L.)
— Liquid Limit (L.L.)
— Water Content (W.C.)
— Gradation
— Perceived Moisture as Determined in the Field by Inspector e.g. dry, dmp., mst., or wet.
— Initial Ground Water Contact or last reading (month-day-year) include I.C. for Inital-Contact
— Pressure Test Data
— Gage Pressure (Pounds per Square Inch)
— Water Take (Cubic Feet per Minute)
— Lost Drill Water % Loss
— Rock Quality Designation (% per Run)
— Core Loss (Feet per Run)
— Bottom of Pressure Test (Increment Feet)
— Regained Drill Water

Top of Hole Elevation
Main Classification
Soil Component with Less Than 5% Mentioned only as w/
Unified Soils Classification
Elevation at change of Material
Material Change
Soil Components when greater than 5% are mentioned in their order of increasing percentages
Drilling Without Sampling
Sampling With No Recovery
Rock Symbol
Rock Structural Element

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by:	GAH
Drawn by:	GAH
Checked by:	JER
Reviewed by:	DLB
Approved by:	

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OH
WEST COLUMBUS L.P.P.
PHASE IID

GEOLOGY AND SOILS LEGEND

Scale: AS SHOWN
Date: FEB 1998
Drawing Code: 016-PWC-10
Sheet reference number: 103
FILENAME: PSLEGEND.DGN
PEN TABLE: BW.PTB
Sheet 1 of 1

D-90-5

CORE SIZE —
BATTER —
DIRECTION Vertical
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 10 May 1990
COMPLETED 11 May 1990
HOLE NO. D-90-5
SAMPLER 2"S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 714,657.7 E 1,856,756.3

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#4	SAND	#200	BLOWS
715.0										
714.0	GW		SILTY SANDY GRAVEL (GM), gr., f.g.-c.g.	10.8						A.S.
713.8	GW-GM		GRAVELLY SAND (SP-SM), lt. br., non-pl., dmp., f.g.-c.g.	13.7						5-5
712.5	SP-SM			13.5						
711.0	SM		SANDY CLAYEY GRAVEL (GC), br.-bk., low pl., dmp., f.g.-c.g., w/coal	21.8			37	46	17	7-32
709.2	SC		SILTY GRAVELLY SAND (SM), br., non pl., dmp., f.g.-c.g.	30.3	W.L. 5-11-90					4-5
				21.1						5-5
				28.6	55	23				3-7
	CH		GRAVELLY CLAYEY SAND (SC), br., low pl., dmp., f.g.-c.g.	25.2				21	79	7-8
706.0										4
705.0	CL-ML		SANDY CLAY (CH), dk. br., hi. pl., dmp., f.g.-c.g.							4-4
703.5	SW-SM			F.W.						3-4
702.0	GP-GC		SANDY CLAY (CL), br., low pl., mst., f.g.-m.g.	F.W.				56	33	11
700.5	GC		SANDY CLAY (SC), br., f.g.-c.g.	F.W.						27-37
699.0	GP-GM		SANDY GRAVEL (GP-GC), br., v. low pl., f.g.-c.g.	F.W.						17
			CLAYEY SANDY GRAVEL (GC), br., low pl., f.g.-c.g.	F.W.						23-19
	SP		SANDY GRAVEL (GP-GM), br., f.g.-c.g.	F.W.						7
694.5			GRAVELLY SAND (SP), br., f.g.-c.g., SAND (SP), 17.5'-19.0'	F.W.						15-13
	GM		SILTY SANDY GRAVEL (GM), br., f.g.-c.g.	F.W.			42	41	17	7
691.5				F.W.						17-22
690.0	GP-GM		SANDY GRAVEL (GP-GM), br., f.g.	F.W.						13
688.5	GP		SANDY GRAVEL (GP), br., f.g.-c.g.	F.W.						22-25
687.0	SP		GRAVELLY SAND (SP), br., f.g.-c.g.	F.W.	18.5	11.9				7
686.2	CL-ML		GRAVELLY SANDY SILTY CLAY (CL-ML), br.-gr., v. low pl.	F.W.						14
685.5	SM		SILTY GRAVELLY SAND (SM), br.-gr., f.g.-c.g.				18	12		16-30
684.0	SW-SC		GRAVELLY SILTY CLAYEY SAND (SM-SC), v. low pl., f.g.-c.g.							14
682.5	GC		SANDY CLAYEY GRAVEL (GC), gr., low pl., f.g.-c.g.							17-22
681.0			CLAYEY SAND (SC), gr., low pl., mst., f.g.-c.g.				9	46	45	14
			SANDY CLAYEY SAND (SC), br.-gr., hi. pl., mst., f.g.-c.g.							14-18
	SC									6
				82	26					13-20
										6
										10-19
										8
										12-16
										3
										5-11
							10	41	49	8
672.0			low pl., 37.0' to 43.0'							9-12
										4
670.5	GC		SANDY CLAYEY GRAVEL (GC), gr., low pl., mst., f.g.							9-15
669.0	SC		GRAVELLY CLAYEY SAND (SC), low pl., mst., f.g.							5
			BOTTOM OF HOLE							10-12
										6
										9-12

* ROCK STRUCTURAL ELEMENTS (OPTIONAL)

SHEET 1 OF 1 SHEETS

D-90-6

CORE SIZE —
BATTER —
DIRECTION Vertical
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 14 May 1990
COMPLETED 16 May 1990
HOLE NO. D-90-6
SAMPLER 2"S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 712,724.8 E 1,856,130.8

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#4	SAND	#200	BLOWS
711.3										
709.8	CL		GRAVELLY SANDY CLAY (CL), br., m. pl., dmp., f.g.-c.g.	16.3						3-6
			SANDY CLAY (CH), dk. br., m. pl., dmp.	23.9	54	29				4
708.6	CH			22.8						4-10
										5
705.3	CL		CLAY (CL), dk. br., m. pl., dmp.							8-9
			SANDY CLAY (CL), br., m.-hi. pl., dmp.	22.3			-	9	91	6
703.8			CLAYEY SAND (SC), br., low pl., mst., f.g.-m.g.	23.3						8-11
702.3	SC		SANDY CLAY (CL), br., low pl., dmp.-mst., f.g.-m.g.	18.1						4
701.4	CL			20.2						6-8
701.8	SM			19.8						2
699.3	GC		NO SAMPLE							2-3
	SP		CLAYEY SANDY GRAVEL (GC), lt. br., v. low pl., dmp., f.g.-c.g.	12.2						1
696.3			GRAVELLY SAND (SP), br., non. pl., f.g.-c.g.	F.W.						13-17
694.8	GP-GM		SANDY GRAVEL (GP-GM), br., non.pl., f.g.-c.g.	F.W.						4
693.3	SP-SM		GRAVELLY SAND (SP-SM), r.-br., non. pl., f.g.	F.W.						7-18
			CLAYEY GRAVELLY SAND (SC), br., v. low pl.-low pl., wet, f.g.	F.W.			55	38	7	1
690.3	SC									14-28
689.4	GC		CLAYEY SANDY GRAVEL (GC), br., low							31-49
688.8	NS		pl., wet, f.g.-c.g.	F.W.						27
688.1	ML		NO SAMPLE	F.W.						32-40
687.3	SM		SANDY SILT (ML), br. & gr., non.pl., f.g.-c.g.	F.W.			1	32	67	24
685.8	SP		GRAVELLY SAND (SP-SM), br., non.pl., f.g.-c.g.	F.W.						33-50
683.4	SP-SC		GRAVELLY SAND (SP), br., non.pl., f.g.-c.g.	F.W.						45
682.8	SC		GRAVELLY SAND (SP-SC), br., v. low pl., f.g.-c.g.	F.W.						27-29
679.8	NS		NO SAMPLE							50
	SC		CLAYEY SAND (SC), br.-gr., low pl., f.g.-c.g.		21	13	10	41	49	13
678.4	CL		NO SAMPLE							38-50
676.8	NS		GRAVELLY SANDY CLAY (CL), br.-gr., low pl., mst., f.g.-c.g.							23
675.3			NO SAMPLE							27-50
673.8	CL		SANDY CLAY (CL), br. & gr., low pl., mst., f.g.-c.g.							13
			SANDY CLAYEY GRAVELLY (CL), br. & gr., mst., low pl., f.g.		20	12				30-50
670.8			GRAVELLY SANDY CLAY (CL), br. & gr., low pl., mst., f.g.-c.g.							27
669.3	GC		SANDY CLAYEY GRAVEL (GC), gr., low pl., mst., f.g.							50-50
			SANDY CLAY (CL), gr. & br., low pl., mst., f.g.-c.g.				3	44	53	22
	CL									30-46
664.8										26
664.5			GRAVELLY SANDY CLAY (CL), gr. & br., low pl., mst., f.g.-c.g.							37-46
663.5			SHALE, gr., hi. wd.							26
			BOTTOM OF HOLE							32-28
										10
										40-50

* ROCK STRUCTURAL ELEMENTS (OPTIONAL)

SHEET 1 OF 1 SHEETS

D-83-8

CORE SIZE —
BATTER —
DIRECTION Vertical
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED —
COMPLETED 21 Oct. 1983
HOLE NO. D-83-8
SAMPLER 2"S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 714,869.1 E 1,858,252.5

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	W.C.	L.L.	P.L.	#4	SAND	#200	BLOWS
728.3										
727.1	CL		SANDY CLAY(CL), gr.-gn., c.-f.g. SAND, pl., dmp.	21.9						7-14
725.3	GC		SANDY CLAYEY GRAVEL(GC), br.-bk. c.-f.g. GRAVEL, ve. low pl., dmp.	10.5						7
			SANDY CLAY(CL), br.-bk.-gr., c.-f.g. SAND, low - m. pl., dry - dmp., w/brick frags.	18.2						21-60
	CL			19.3						15
										12-11
										8
				17.8	38	18				7-8
										6
				18.5						6-6
										5
										5-8
				18.9						6
711.8										6-8
711.3			RED-BRICK FRAGMENTS	24.7						10
710.8	MS		NO SAMPLE							12
			GRAVELLY SANDY CLAY(CL), br., c.-f.g. SAND, m. pl., dmp., w/brick frags.	18.9						12-12
707.8	CL		CLAY(CL), bk., c.-f.g. SAND, m. pl., dmp.	26.5						4-5
704.8				23.4						5
703.3			SANDY CLAY(CL), br., m.-f.g. SAND, m. pl., wet	26.5	W.L. 10-21-83					30
700.3	SC		CLAYEY SAND(SC), br., c.-f.g. SAND, low pl., wet	26.7		0	57	43		16-18
697.3			GRAVELLY CLAYEY SAND(SC), br., c.-f.g. SAND, ve. low pl., wet	20.3		1	64	21		16-12
			BOTTOM OF HOLE							1-2
										3-5
										6-5

* ROCK STRUCTURAL ELEMENTS (OPTIONAL)

SHEET 1 OF 1 SHEETS

D-83-9

CORE SIZE —
BATTER —
DIRECTION Vertical
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED —
COMPLETED 23 Oct. 1983
HOLE NO. D-83-9
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 712,207.6 E 1,856,485.5

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	W.C.	L.L.	P.L.	#4	SAND	#200	BLOWS
721.8										
			GRAVELLY SANDY CLAY(CL), bk, c.-f.g. SAND, m. pl., dmp.	18.5						4-5
				16.0						2
	CL			13.2			15	34	51	2-3
				17.4						2
				18.7						3-3
				19.5						3
				21.5	40	20				3-4
709.8				21.6						3-3
			SANDY CLAY(CL), br.-bk., c.-f.g. SAND, lower. pl., dmp., w/tr. GRAVEL	20.0						2
				21.4						3-3
				22.3						4
703.8				23.9						6-11
			GRAVELLY CLAYEY SAND(SC), br.-bk., c.-f.g. SAND, low pl., w/pieces of red-brick intermixed	19.2						5-7
700.8	SC			24.4						4-7
699.3	OH		SANDY GRAVELLY ORGANIC CLAY(CH), br.-bk., c.-f.g. GRAVEL, hi. pl., mst.	42.4	56	31				7
			SANDY CLAY(CL), gr.-gn., f.g. SAND, c.-hi. pl., w/organics mixed, wet	32.1	W.L. 5-7-90					3
				31.7	45	22				5-5
	CL			34.4						2
693.5				59.5						3-4
691.8	GC		SANDY CLAYEY GRAVEL, (GC) gr.-bk., c.-f.g. GRAVEL, m. pl., wet	24.6			07	16	17	5
			SILTY SANDY GRAVEL(GM), gr.-br., c.-f.g. GRAVEL, non-pl., wet	19.0						6-16
688.8	GM									16
	GW-GM		SANDY GRAVEL(GW-GM), gr.-br., c.-f.g. GRAVEL, non-pl., wet	23.6			59	36	5	24-19
685.8										17
	GC		SANDY CLAYEY GRAVEL(GC), gr.-br., c.-f.g. GRAVEL, low pl., wet	16.3						19-19
682.8										17
			SANDY CLAY(CL), br.-gr., c.-f.g. SAND, lower. pl., wet	10.8						5-17
	CL									12
				10.0						50-55
										35-41
				11.7	22	12				47
				23.3						42-47
671.8				19.8						19-41
										37
										42-57
										15
										36-46
										56
										52-50
										61
										47-45
										11
										10-11
										11
										11-22
										52
										37-41
										11

* ROCK STRUCTURAL ELEMENTS (OPTIONAL)

SHEET 1 OF 2 SHEETS

D-83-9 (CONTINUATION OF HOLE NO D-83-9)

PROJECT WEST COLUMBUS, OHIO LPP

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	W.C.	L.L.	P.L.	#4	SAND	#200	BLOWS
671.8										
			SANDY CLAY(CL), br.-gr., f. SAND, low pl., wet	19.6						18-26
669.0	CL			23.9						21
			WEATHERED SHALE	19.2						20-41
667.2										33
			CLAYSTONE: Gray, soft, shaley, thin to shaley bedded. Mod. weathered above 661.8. Severely broken with possible 3.6' loss at 665.7-661.8. High angled fracture with smooth and planar surface at 667.2-666.7, 660.6-660.2,659.9-659.2. High angled (60°) fracture with smooth and planar surface at 657.6-657.5. Severely broken at 658.8-658.4, 656.1-656.0. High angled (45°) fracture with smooth and planar surface at 657.6-657.5. Thin (0.2') siltstone seam, brown, mod. hard at 656.6-656.4, 655.7-655.5.							50
										Began Coring
										19
										L 3.6
										54
										L 0.0
655.0										45
										L 0.0
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPTIONAL)

SHEET 2 OF 2 SHEETS

D-90-24

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 26 Oct 1990
COMPLETED 26 Oct 1990
HOLE NO. D-90-24
SAMPLER 2" S S
DROP 30"
HAMMER 140#
COORDINATES N 714,599.2 E 1,857,976.7

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#4	SAND	#200	BLOWS
722.6										
			SANDY CLAY (CL), bk -br , m.hi pl , dmp , c g.-f g SAND, w/brick frags. & rts.	22.0	42	19				2
				21.9						4-5
718.1	CL		SANDY CLAY (CL), br , m pl , dmp , c.g.-f g SAND, w/SH & LS frags.	22.0	41	18	4	18	78	5-3
				20.4						3
715.9				25.3			5	33	62	3-7
715.1			CLAYEY SAND (SC), br., low pl., dmp , c.g.-f.g SAND, w/cinders & brick fragss.	17.6			10	53	37	8-7
713.6	SC		GRAVELLY CLAYEY SAND (SC), mot.r.-bk	17.2						6-7
713.5	SM		low pl., dmp., c g.-f.g. SAND, w/cinders & brick fragss.	13.9						3
712 1			GRAVELLY CLAYEY SAND (SC), gn.-br., low pl., dmp , c g.-f g. SAND, w/st. org. odor.	0			2	84	14	4-5
710.6	GM			0						3-4
709 1			SILTY SAND (SM), br , non pl , dmp., c.g.-f g SAND.	0						2
707.6	CH			27.2	53	25	2	28	70	9-6
706 1			SANDY SILTY GRAVEL (GM), r , bk , & br., non pl., dmp., c.g -f g GRAVEL, w/brick fragss	27.8	51	22				10-10
	CL			24.0						4
703.1			SILTY SANDY GRAVEL (GM), bk , non pl ,dmp., c g.-f.g. GRAVEL, w/cinders & SH fragss.	29 5	49	20				6-7
701 6			SANDY CLAY (CH), bk., hi pl., dmp., c g.-f g SAND, w/coal fragss	29 2	34	19				2
			SANDY CLAY (CH), dk.gr., hi pl., dmp., m.g.-f g SAND							6-10
			SANDY CLAY (CL), br., m hi pl , dmp , m.g.-f g. SAND.							3
			SANDY CLAY (CL), br., m.pl., dmp., m.g -f g SAND							7-10
			BOTTOM OF HOLE							5-6
										1
										2-3

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

D-90-25

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 27 Nov 1990
COMPLETED 27 Nov 1990
HOLE NO. D-90-25
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 713,767.2 E 1,858,123.9

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#4	SAND	#200	BLOWS
723.9										
722.4	SC		GRAVELLY CLAYEY SAND (SC), dk br., m hi pl., dmp., c g -f.g. SAND, w/GRAVEL, brick frags & orgs.	24 3	48	26	18	35	47	1
720.9	GC		CLAYEY SANDY GRAVEL (GC), br , low pl., dmp., c.g -f.g. GRAVEL, w/brick frags	9.2			41	34	25	4-3
719.4			SANDY CLAYEY GRAVEL (GC), br., low pl , dmp., c g.-f.g GRAVEL, w/brick frags	11.4						3-4
717 9	SC		CLAYEY SAND (SC), br., low pl , dmp., c g.-f.g GRAVEL, w/brick frags	19.0			12	45	43	3
716.4			GRAVELLY CLAYEY SAND (SC), r.&dk br., low pl., dmp., c.g -f g.SAND	20.8			27	41	32	9-6
714.9	GC		SANDY CLAYEY GRAVEL (GC), br., low pl , dmp., c.g -f g. SAND	19.0						4
713.4	SM		GRAVELLY CLAYEY SAND (SC), mot.gr.-bk., low pl., dmp., c.g -f g GRAVEL	25 8			18	43	39	3-3
711.9	GC		GRAVELLY SILTY SAND (SM), dk br., non pl., dmp., c.g.-f.g SAND	33.2			26	42	32	2
710.4	SC		CLAYEY SANDY GRAVEL (GC), r.-bk., low pl., dmp., c g.-f.g. GRAVEL w/brick frags	28.8						1-1
	GC		SANDY CLAYEY GRAVEL (GC), bk low pl , dmp., c g.-f.g. SAND, w/ cinders, GRAVEL, COAL & wood frags	18.2						2
707.7			GRAVELLY CLAYEY SAND (SC), bk low pl , dmp., c g.-f.g SAND,w/ occ. wood, brick & SS frags	47.0						2-2
706.3	CL		SANDY CLAY (CL), br., m pl., dmp., c.g.-f g. SAND	16.6						3
704 4	CH		SANDY CLAY (CH), dk.br., hi.pl , dmp , c.g -f.g. SAND	29.2	58	30	0	29	71	26-20
702 9	CL		SANDY CLAY (CL), br , m.pl., dmp., m.g.-f g SAND	24.8						1
			BOTTOM OF HOLE	28.2						2-5
										6-9
										3
										5-4

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

D-90-26

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 17 Oct 1990
COMPLETED 17 Oct 1990
HOLE NO. D-90-26
SAMPLER 2" S.S
DROP 30"
HAMMER 140#
COORDINATES: N 713,371.6 E 1,857,961.2

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#4	SAND	#200	BLOWS
725.3										
723.8	CL		GRAVELLY SANDY CLAY (CL), dk br , m.hi.pl , dmp , c.g.-f g SAND, w/rts, & org	18 5	41	20	18	30	52	2
			SANDY CLAY (CL), br., m pl., dmp., c.g -f.g. SAND, w/COAL & ro frags.	19.1						3-6
720.8				20.1	39	20				14
719.3	SC		CLAYEY GRAVELLY SAND (SC), r., bk , & br , low pl , dmp., c g.-f g SAND, w/GRAVEL, COAL & brick frags	20.2			34	36	30	11-13
			GRAVELLY CLAYEY SAND (SC), r , br., & bk , low pl , dmp , c g.-f g SAND, w/COAL & ro frags	25.1			15	43	42	6
716 3			SANDY CLAY (CL), br , m.pl., ve dmp., c.g.-f g SAND,	19.8						7-8
714.8	CL		CLAYEY SAND (CL), br , m pl , ve dmp -mst., c g -f g SAND.	25 5	42	22.2				2
713.3			SANDY CLAY (CL), dk br , m pl., ve. dmp -mst , c g -f g SAND, w/ro frags	27 3	41	22	11	43	46	2-4
710.3				26.0						3
708.8				19 4						2
707 3	SC		SANDY CLAY (CL), br., m pl., ve dmp -mst , c g -f g SAND, w/ro frags	24 0	37	19				2-3
706.7	CL		CLAYEY GRAVELLY SAND (SC), br , low pl., ve. dmp -mst. c g -f.g SAND, w/GRAVEL, conc & brick frags	17.0			37	40	23	3
703.8	SC		SANDY CLAY (CL), bk.-br., low pl., ve dmp -mst , c.g.-f.g. SAND w/brick frags.	13.2						3-3
702.8	CH		CLAYEY GRAVELLY SAND (SC), bk , low pl , mst -wet, c g -f.g SAND, w/ cinders & COAL frags.	31 6			24	54	22	3-6
			SANDY CLAY (CH), dk.gr., hi.pl., ve dmp., m g.-f g. SAND.	31 0						7
	CL		SANDY CLAY (CL), br , m pl , ve dmp.-mst , m.g.-f.g SAND	28.7						8-7
			CLAYEY SAND (SC), br., low pl., wet, c.g.-f.g. SAND.	31.2			W.L	10-17-90		6
			SILTY SAND (SM), br , non pl., wet, c.g -f.g. SAND.	24 8						6-4
			SILTY SAND GRAVEL (GM), br., non pl , wet, c.g.-f.g GRAVEL.	25.2	39	18				4-9
698.6				24.2						5
698.3	SC/CL			23.9			0	65	35	9-13
695.8	SM			0			0	80	20	4
695.3	GM			0						8-6
			BOTTOM OF HOLE							1
										1-3
										8
										16-19

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: G. HENSLEY
Drawn by: L. MERS
Checked by L. RIGGS
Reviewed by.
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L P P.
PHASE IID

GRAPHIC LOGS OF BORINGS

Scale: AS SHOWN
Date: MAR 1997
Drawing Code: O16-PWC-10
Sheet reference number: 10/4
FILENAME LOGS DGN
PEN TABLE
Sheet of

CORE SIZE NX
BATTER
DIRECTION Vertical
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 22 Nov. 1989
COMPLETED 30 Nov. 1989
HOLE NO. D-89-48
SAMPLER 2"&3" SS
DROP 18" & 30"
HAMMER 140#&300#
COORDINATES
N 711,678.7
E 1,856,066.0

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
723.9			SANDY SILTY GRAVEL(GM), br., non pl., dmp., f.g.-c.g., w/rts., and brick frags.							5-9
720.9	GM			22.6						5-7
719.4			GRAVELLY SILTY SAND(SM), br., non pl. dmp., f.g.-c.g.	19.9			24	40	36	6-8
717.9			SILTY SAND(SM), br., non pl., dmp., f.g.-c.g.	19.6						5-7
716.4	SM		GRAVELLY SILTY SAND(SM), br., non pl., dmp., f.g.-c.g.							4-6-3
714.9	GC		SANDY CLAYEY GRAVEL(GC), br., m. pl., dmp., f.g.-c.g.	19.0	38	18	29	28	43	5-8
713.4	CL		GRAVELLY SANDY CLAY(CL), br., m.-hi. pl., dmp., f.g.-c.g.	20.0	40	17				5-8
711.9	GC		SANDY CLAYEY GRAVEL(GC), br., low pl., dmp., f.g.							9-11
710.4	GP		GRAVEL(GP), br., non pl., dmp.							6 16-14
707.4			GRAVELLY SILTY SAND(SM), dk. br., non pl., mst., f.g.-c.g., w/wood & brick frags.	26.7			22	39	39	3 22-18
705.9	SM		SILTY SAND(SM), dk. br., non pl., mst., f.g.-c.g., w/wood chips	24.2						6-7
704.4			GRAVELLY SILTY SAND(SM), dk. br.-bk, non pl., mst., f.g.-c.g., w/wood chips	30.0			10	46	44	4 6-6
702.9			SILTY SAND(SM), dk. br.-bk., non pl., mst., f.g.-c.g.	37.3						5 4-4
701.4			GRAVELLY SILTY SAND(SM), dk. br., non pl., mst., f.g.-c.g., w/f.g.s. & wood	43.7						4 3-4
699.9	SC		GRAVELLY CLAYEY SAND(SC), dk. br., low pl., mst., f.g.-c.g., w/wood chips	26.9			25	47	23	4 4-6
698.4			CLAYEY SAND(SC), dk. br., m.-hi. pl., mst., f.g.-c.g., w/wood chips	23.4	45	20				6 9-8
696.9	CL		SANDY CLAY(CL), br.-dk. br., m. pl., mst., f.g.-c.g., w/wood chips	21.7			6	34	60	3 4-5
695.4	SM		SILTY GRAVELLY SAND(SM), br., non pl., mst., f.g.-c.g.	7.1						2 9-12
693.9	SP-SM		GRAVELLY SAND(SP-SM), br., non pl., mst., f.g.-c.g.	8.2	W.L. 11-30-89					27 11-12
692.4	GC		CLAYEY SANDY GRAVEL, (GC) br.,sli. pl., mst., f.g.-c.g.	F.W.			59	29	15	11 7-10
690.9	GP-GM		SANDY GRAVEL, (GP-GM), br., non pl., mst., f.g.-c.g.	F.W.						12 12-11
689.4	SP-SM		GRAVELLY SAND(SP-SM), br., non pl., wet, f.g.-c.g.	F.W.						20 12-27
687.9	GW-GM		SANDY GRAVEL(GW-GM), br., non pl., wet, f.g.-c.g.	F.W.			68	25	7	17 24-20
684.9	GP		GRAVEL(GP), br., non pl., wet f.g.-c.g.	F.W.						38 50/.1 12 19-27
683.4	GP-GM		SANDY GRAVEL(GP-GM), br., non pl., wet, f.g.-c.g.	F.W.			54	35	11	19 26-30
681.9	GM		SILTY SANDY GRAVEL(GM), dk. br., non pl., wet, f.g.-c.g.	F.W.						13 20-26
677.4	GP-GM		SANDY GRAVEL(GP-GM), br., non pl., wet, f.g.-c.g.	F.W.			55	34	11	33 20-37 23 19-37
				F.W.						26 32-50
673.9	SP-SM		GRAVELLY SAND(SP-SM), br., non pl., wet	F.W.						26 32-32 19 22-27
				F.W.			17	73	10	28

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 1 OF 2 SHEETS

PROJECT WEST COLUMBUS, OHIO LPP
CONTINUATION OF HOLE NO D-89-48

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
673.9										
671.4	SP-SM		GRAVELLY SAND(SP-SM), br., non pl., wet	F.W.			17	73	10	31-41
669.9	SM		GRAVELLY SILTY SAND(SILTY SAND(SM), br., non pl., wet, f.g.-c.g.	F.W.						50/.5 25 50/.4
	NS		NO SAMPLE (LIMESTONE BOULDER)							
664.9										
663.9	SP-SM		GRAVELLY SAND(SP-SM), br., non pl., wet, f.g.-c.g.	F.W.			41	54	5	50/.4 31 50/.3
			SHALE, gr., hi. wd.							50/.1 50/.3 50/.3
657.9										
648.9			SHALE, soft clayey, gray, slightly calcareous Severely moderately weathered throughout with zones weathered to plastic clay Numerous losses throughout	LO.6						Start of Coring
				LO.4						
				LO.7						
				LO.6						
			LIMESTONE, hard to very hard, gray, thin bedded Open, slightly weathered bedding plane at 648.4 Numerous very hard chert tan inclusion and layers throughout Calcite crystals on bedding at 6.39.8	LO.1						
				LO.0						
637.6				LO.0						
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 2 OF 2 SHEETS

CORE SIZE
BATTER
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 17 Dec 1991
COMPLETED 17 Dec 1991
HOLE NO. D-91-69
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES.
N 715,363.1
E 1,856,385.9

ELEVATION (FEET)	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
730.0										
	CL		SANDY CLAY (CL), br., low pl., dmp., f.g.-c.g.	F.W.						3 3-3
727.0				18.9						5 6-19
725.5	SC		GRAVELLY CLAYEY SAND (SC), br., m.hi. pl., dmp., f.g.-c.g.	9.3	41	20				8 15-20
			CLAYEY GRAVELLY SAND (SC), br., m.pl., dmp , f.g.-c.g.	21.3			33	38	29	8 15-18
722.5				16.1						8 12-15
721.0	SM		GRAVELLY SILTY SAND (SM), br , non pl. dmp., f.g.-c.g., w/occ brick frags	14.3						6 6-9
719.5	CL		SANDY CLAY (CL), br , low pl., dmp., f.g.-c g., w/brick frags	30.4						6 6-13
718.0	NS		NO SAMPLE							12 9-6
716.5	CL		SANDY CLAY (CL), br.gr , m.hi.pl., dmp., f.g.-c.g., w/brick frags	19.8			3	40	57	8 6-4
	SC		GRAVELLY CLAYEY SAND (SC), br.gr., low pl., dmp., f.g -c.g , w/brick frags	20.4						8 7-4
713.5				23.8						5 5-7
	CL		SANDY CLAY (CL), dk.br., low pl.- m pl., dmp., f.g.-c.g., w/brick frags	17.2						12 15-18
				11.3			3	29	68	12 20-14
709.0				15.9	36	20				10 12-12
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE
BATTER
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 2 Jan 1991
COMPLETED 2 Jan 1991
HOLE NO. D-92-70
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES
N 715,496.5
E 1,856,986.4

ELEVATION (FEET)	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
727.6			SILTY GRAVELLY SAND (SM), bk., non pl., f.g.-c.g.							4-5
726.1	SM		GRAVELLY SILTY SAND (SM), gr.br., non pl., f.g.-c.g.	11.9						3 5-4
724.6			CLAYEY GRAVELLY SAND (SC), br., low pl., f.g.-c.g.	11.4						3 5-4
723.1	SC		SANDY CLAY (CL), br., dmp , m pl., f.g.-c.g.	12.5			41	42	17	3 7-3
			gr. 7.5' - 10.5'	24.0						4 5-4
				27.3						2 3-4
	CL		dk.gr. 10.5' - 12 0', 13.5' - 16.5'	28.9						3 4-4
				26.2						5 5-5
			br.gr 12 0' - 13.5'	28.8	50	23				8 7-8
				24.6						4 7-8
				26.1						3 4-7
711.1				25.9			0	35	65	2 3-7
709.6	OL		SANDY ORGANIC CLAY (OL), dk gr., m.pl., dmp , f.g.	26.6						4 5-7
	CL-ML		SANDY CLAYEY SILT (CL-ML), dk.gr., ve. low pl., dmp., f g -c.g.	25.4						3 5-6
706.6				24.8						3 3-4
	CL		SANDY CLAY (CL), gr., m.pl., dmp., f.g.-c.g.	27.5						3 5-6
			dk gr. 22.5' - 25.5'	28 2						3 3-4
702.1				27.9	W L	1-2-92				3 3-3
700.6	SC		CLAYEY SAND (SC), gr -gn., m.pl , wet, f.g.-c.g	27.2						2 2-1
697.6			CLAYEY GRAVELLY SAND (SC), br gr., low pl., wet, f.g.-c.g.	F.W.			21	59	20	2 5-4 3 9-20
			BOTTOM OF HOLE	F.W.						

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE
BATTER
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 25 Feb 1992
COMPLETED 2 Mar 1992
HOLE NO. D-92-71
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES:
N 715,302.6
E 1,857,306.2

ELEVATION (FEET)	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
715.2										
714.7	NS		ASPHALT PAVEMENT.							6
713.2	GP-GM		SANDY GRAVEL (GP-GM), gr., non pl., dmp., c.g.-f g. GRAVEL, w/ma ro.frags.	7.4						4 41-4
711.7			SANDY CLAY (CL), br., m.hi.pl., mst., c g -f g. SAND, w/ro.frags.	18.3	46	20				3 2-2
	CL		SANDY CLAY (CL), bk -br , m pl., mst , c.g.-f g. SAND, w/ro frags.	21 6						2 2-5
707 2				15.8	33	18				4 3-3
				23.4						3 5-4
705.7			GRAVELLY SANDY CLAY (GL), br -bk, m.hi.pl , mst., c.g.-f.g. SAND w/COAL FRAGS.	23 4	47	21				W.L.2-27-92 3 3-4
704.2	SM		GRAVELLY SILTY SAND (SM), gr , non pl., mst., c g -f.g. SAND.	25.0						3 15-9
702 7			SILTY SAND (SM), br.-gr.bk., non pl., mst.-wet, c.g.-f.g. SAND.	14 7						6 5-6
701.2	SC		CLAYEY SAND (SC), br , low pl , mst.- wet, m.g -f g. SAND.	25 7			0	69	31	0 2-4
699.7			CLAYEY SAND (SC), gr., m.hi pl., mst., c.g.-f.g. SAND.	26 8	42	16				3 3-8
698.2	SP-SM		GRAVELLY SAND (SP-SM), br., non pl., mst -wet, c.g.-f g SAND.							6 11-12
	GP-GM		SANDY GRAVEL (GP-GM), br , non pl., mst.-wet, c.g.-f.g. GRAVEL.							8 20-30 7 14-20
695.2			SILTY SANDY GRAVEL (GM), gr.br.-br , non pl., mst.-wet, c.g.-f.g. GRAVEL, w/ma ro.frags.							10 14-17 19 25-30
690.7	GM		GRAVELLY SAND (SP-SM), br., non pl , mst.-wet, c.g.-f.g. SAND, w/ma ro. frags.							20 28-34 10 17-24 8 25-31 19-20 9-39 20-17
683.7										2 2-5
682.2	GP-GM		SANDY GRAVEL (GP-GM), br , non pl ,wet, c.g.-f g.GRAVEL, w/ma.ro.frags.							4 10-15
679.2	SC		GRAVELLY CLAYEY SAND (SC), br.-gr., non pl., wet, c.g -f g SAND, w/SH frags.							10 16-23 38 50-50
677.7	GC		CLAYEY SANDY GRAVEL (GC), gr , low pl , wet, c.g -f.g GRAVEL, w/ma ro.frags.							50 50-50
674.7	GP-GM		SANDY GRAVEL (GP-GM), gr., non pl , wet, c g -f.g. GRAVEL, w/ma ro.frags.							33 50-50 32 50-43
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE
BATTER
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 27 Feb 1992
COMPLETED 27 Feb 1992
HOLE NO. D-92-72
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES:
N 715,223.1
E 1,857,656.9

ELEVATION (FEET)	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
714.8										
713.8	NS		ASPHALT PAVEMENT.							3
			GRAVELLY CLAYEY SAND (SC), br , low pl., dmp , c.g -f.g SAND	9 9						6-6
710 8	SC			12 5						2 50-31
			CLAYEY GRAVELLY SAND (SC), br , m.pl , dmp., c.g -f.g SAND	14.6	37	20				1 2-4
707 8				14.0			36	43	21	2 2-3
706.3			GRAVELLY CLAYEY SAND (SC), gr , low pl., mst , c g.-f.g. SAND.	12.9						2 2-3
704.8	CH		GRAVELLY SANDY CLAY (CH), dk.gr.-br., hi.pl., mst., c.g.-f.g. SAND.	29.5	52	20				3 2-2
			SANDY CLAY (CL), dk br., low pl., mst., c.g.-f.g. SAND, w/org odor	29.9						1 2-2
701.8				30.3						2 2-2
	CL		SANDY CLAY (CL), gn.-gr., m.hi pl., mst., c g -f.g. SAND, w/org. odor.	27 1	47	18				2 2-3
698 8				27.8						1 2-2
697.6	CL		SANDY CLAY (CL), gn -gr , m pl., mst , c g -f.g SAND,w/sm. shells & org odor	27.7						1 2-3
695.8	GC		CLAYEY SANDY GRAVEL (GC), br., low pl., wet, c g.-f g GRAVEL, w/LS fragg.	22A						3 6-11
	GP-GM		SANDY GRAVEL (GP-GM) , br , non pl , wet, c.g.-f.g. GRAVEL, w/LS fragg.	31.9			62	20	18	6 11-12
692 8				12.9	W L	2-26-92				9 15-15
	SP-SM		GRAVELLY SAND (SP-SM), br., non pl , wet, c.g.-f.g SAND, w/num. LS frags				35	53	12	5 13-11
							44	47	9	6 15-18 10-11
685.3										9 7-6
683.8	GP-GM		SANDY GRAVEL (GP-GM), br., non pl.,wet, c.g.-f.g. GRAVEL, w/num LS frags							10 14-12 8 7-17
676.9	SP-SM		GRAVELLY SAND (SP-SM), br.-gr , non pl , c.g.-f g SAND, w/num. LS frags							25 38-33 12 30-35 7 24-36
676.3	SM		SILTY GRAVELLY SAND (SM), gr., non pl., wet, c.g.-f.g. SAND							25 32-37 21 32-38
674.8	SC		GRAVELLY CLAYEY SAND (SC), gr , low pl , wet, c g.-f.g. SAND							11 21-33
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE
BATTER
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 13 March 1992
COMPLETED 13 March 1992
HOLE NO. UD-92-72
SAMPLER 5" F.P.
DROP ---
HAMMER ---
COORDINATES:
N 715,221.1
E 1,857,659.9

ELEVATION (FEET)	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
714.7										
	NS		NO SAMPLE							
705.7										
704.1	GC		SANDY CLAYEY GRAVEL (GC), br , m.pl , soft, f.g.-c.g.	29.0	47	25	0	21	79	
703.1	CL		SANDY CLAY (CL), dk.gr., m.hi.pl., soft, f.g.-m.g., w/org.							
702.8	NS		NO SAMPLE							
700 8	CH		SANDY CLAY (CL), br , m.pl., med., f.g.-c.g.	29.9	59	20	0	30	70	
698.5	CL		SANDY CLAY (CH), dk gr., hi.pl , soft, f g.-c.g., w/org.	25 8	49	18	0	25	75	
			SANDY CLAY (CL), dk.gr., m.hi.pl., soft, f g.-c.g., w/org.							
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE
BATTER
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 26 Feb 1992
COMPLETED 26 Feb 1992
HOLE NO. D-92-73
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES
N 714,499.4
E 1,857,882.6

ELEVATION (FEET)	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
719.0										
	SM		SILTY SAND (SM), br , non pl , dmp , m g -f g SAND.	16 9						3 4-4
				10.4						2 3-2
713.0				11.7						4 3-3
				22 8						3 2-2
	CL		SANDY CLAY (CL), br.-olive br , m pl , mst -dmp., c.g.-f.g SAND, w/cinders, brick & SH frags	22 8	39	21	4	37	59	2 2-2
				24 1						3 3-3
				23 3						2 2-3
				23.1			4	36	60	2 2-3
				26 3						3 3-3
702.5				22.7						2 3-4
				28.7			W L	2-26-92		3 3-5
701 0			SANDY CLAY (CL), br , low pl , mst , m.g.-f.g SAND	24.5						2 2-2
698.0	SC		CLAYEY SAND (SC), lt br., low pl., ve mst , m g -f.g. SAND w/ma sm shell frags.				28	16		1 1-1
696 5	GP-GC		SANDY GRAVEL (GP-GC), lt br , ve low pl., c.g -f g GRAVEL, wet							1 1-3
695.0	GC		CLAYEY SANDY GRAVEL (GC), lt.br., low pl , wet, c.g -f.g GRAVEL,w/LS fragg.				46	35	19	4 6-7 9-9
	GP		SANDY GRAVEL (GP-GC), lt.br., low pl., wet, c g.-f g. GRAVEL, w/ma LS fragg.							5 14 15-15
692 0	GC		SANDY GRAVEL (GP-GC), lt.br., non pl , wet, c g -f g. GRAVEL, w/ma. LS fragg.				57	35	8	3 12-16 1 9-20
689 0										11 15-18
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE
BATTER
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 26 Feb. 1992
COMPLETED 26 Feb. 1992
HOLE NO. D-92-74
SAMPLER 2" S.S
DROP 30"
HAMMER 140#
COORDINATES:
N
E

ELEVATION (FEET)	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
718.9										
717 9	NS		ASPHALT PAVEMENT							3
	SM		SILTY SAND (SM), br., non pl., dmp , m.g.-f.g. SAND	15 3						2-4
				7 9						4 4-2
				13.1						1-2
711.9				21.2			5	75	20	2 1-2
710.8	ML		SANDY SILT (ML), br.-gr , non pl., mst., m g -f.g. SAND	36.3						1 1-1
710.4	CL		CLAY (CL), olive, hi.pl., mst , m g.-f.g. SAND	43.7	53	22				1 0
708.9	CH		SANDY CLAY (CH), olive, hi.pl , mst., c.g -f.g. SAND	26.7			6	38	56	0-1
	CL		SANDY CLAY (CL),olive-gr -bk , m hi.pl mst., c.g.-f.g. SAND w/ro. & org.	26.2						1-1
705.9			SANDY CLAY (CL), olive-bk., m.pl., ve dmp , m.g -f g SAND w/org.	29.5	43	22				0 1-1
704 4			SANDY CLAY (CH), gr , hi.pl , ve dmp , c g.-f.g SAND	31.0						8 2-4
702 9	CH		SANDY CLAY (CL), olive, m.pl., ve dmp , c.g.-f g. SAND	26.2	56	24				2 4-5
701.4	CL		CLAYEY SAND (SC), olive-br., low pl., wet, c.g -f.g. SAND	28.4						3 3-3
699.9	SC		CLAYEY SILTY SAND (SC-SM), br., ve low pl., wet, c.g -f.g. SAND w/shell frags	21.2						1 1-2
	SC SM		CLAYEY SAND (SC), br , low pl , wet, c.g -f g. SAND w/ma sm shell frags	27.9	W L		0	65	35	1 1-1
696.9			SILTY GRAVELLY SAND (SM), br., non pl., wet, c g -f.g. SAND, w/ma sm shell frags	29.9						1 1-2
695 4	SC		CLAYEY SAND (SC), br , low pl , wet, c.g -f g. SAND, w/ma sm shell frags	30 8				2-26-92		2 2-3
693.9	SM		SILTY GRAVELLY SAND (SM), br., non pl., wet, c g.-f.g. SAND							3 3-4
692 4	GM		SILTY SANDY GRAVEL (GM), br., non pl , wet, c g.-f g. GRAVEL				51	35	14	7 8-10
	GP GM		SANDY GRAVEL (GP-GM), br., non pl.,wet, c.g -f g. GRAVEL, w/ma. LS fragg							6 8-8
689.4			SILTY GRAVELLY SAND (SM), br , non pl., wet, c g.-f.g. SAND							5 12-16
688.1	SM		SANDY CLAY (CL), br., m.hi.pl., mst., c g.-f.g. SAND							19 13-7
687 9	CL		BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: G. HENSLEY
Drawn by: L. MERS
Checked by: L. RIGGS
Reviewed by:
Approved by:

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GRAPHIC LOGS OF BORINGS

Scale: AS SHOWN
Date: MAR 1997
Drawing Code: 016-PWC-10
Sheet reference number: 105
FILENAME: LOGS DGN
PEN TABLE:
Sheet of

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 25 Feb. 1992
COMPLETED 26 Feb. 1992
HOLE NO. D-92-75
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES:
N 713,983.2
E 1,857,987.9

ELEVATION (FEET) MSL	SYMBOL	RSE*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
722.3										3
			CLAYEY GRAVELLY SAND (SC), gr.br., low pl., dmp., f.g -c.g., w/brick frags	9.6						7-8
719.3										3
				10.1						5-7
			GRAVELLY CLAYEY SAND (SC), dk.br., low pl., dmp., f.g.-c.g., w/brick frags & coal frags	11 9						9
				11.0						7-7
										3
				10.8						4-4
										5
	SC		gr. 4.5' to 9.0'	10.9			19	45	36	6-3
										4
			br.gr. 9.0' to 13.5'	15.9						3-3
										2
				14.7						4-4
										4
708.8				14.5						5-6
										6
										5-5
	CL		SANDY CLAY (CL), dk.gr., m.pl., dmp., f.g.-c.g., w/brick frags	27.5	36	20	4	27	69	3
705.8				21 4						10-3
										4
										3-5
	CL		SANDY SILTY CLAY (CL-ML), dk.gr., ve. low pl., dmp., f g.-c.g., w/brick frags	31.5						2
702.8	ML									4-6
				22.5						3
										4-7
701.3	CL		SANDY CLAY (CL), br , m.pl., mst., f.g.-c g.	25.3						2
										2-2
			CLAYEY SAND (SC), br., m.pl., ve mst., f g.-c.g.	29.8			0	63	37	0
										1-2
	SC			31.9	33	19				1
696.8			W L. 2-25-92							1-2
										0
695 3			GRAVELLY CLAYEY SAND (SC), br., low pl., wet, f.g.-c g.							2-2
										2
										5-9
	GP		SANDY GRAVEL (GP-GM), br., non pl.,				56	34	10	13
	GM		wet, f.g.-c.g.							10-11
692.3										11
										15-25

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 10 March 1992
COMPLETED 10 March 1992
HOLE NO. UD-92-75
SAMPLER 5" F.P
DROP ---
HAMMER ---
COORDINATES:
N 713,983.1
E 1,857,985.7

ELEVATION (FEET) MSL	SYMBOL	RSE*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200
722.2									
		NS	NO SAMPLE						
707 2									
705.1	GC		CLAYEY SANDY GRAVEL (GC), br., stf., f.g.-c.g.						
		NS	NO SAMPLE						
702.2									
701.3	CL		SANDY CLAY (CL), br., m.pl., med., f.g.-c.g.	20.0	29	15	0	56	44
700.2	SC								
699.2	NS		CLAYEY SAND (SC), br., m.pl., med., f.g.-c.g., w/crushed shells	20 3	22	16	0	74	26
698.0	SC								
	SM		NO SAMPLE						
			CLAYEY SILTY SAND (SC-SM), br., ve low pl., firm., f.g.-c.g.						

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

CORE SIZE NX
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 4 March 1992
COMPLETED 6 March 1992
HOLE NO. D-92-76
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES:
N 713,505.9
E 1,858,000.9

ELEVATION (FEET) MSL	SYMBOL	RSE*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
722.8										7
721.3	GC		CLAYEY SANDY GRAVEL (GC), gr.br., low pl., dmp., f.g.-c.g.	8.8						26-20
			GRAVELLY CLAYEY SAND (SC), dk.gr., low pl., dmp., f.g.-c.g., w/brick frags	16 7						10
										11-10
			4.5' - 6.0' strong org odor	18.0						4
										2-4
				16.9						4
715.3										4-6
				18.1						4
			CLAYEY SAND (SC), dk.br., low pl., ve. dmp., f.g.-c.g., w/brick frags							4-4
712.3	SC			15.2			13	49	38	2
										3-6
			SILTY SANDY GRAVEL (GP-GM), br., non pl., wet, f.g.-c g. sand	15.5						4
										4-6
			GRAVELLY CLAYEY SAND (SC), br.dk gr.-br., low pl., ve. dmp., f g.-c g , w/brick frags & cinders	12 5	40	21				3
										2-3
				19.4						3
										4-4
				15.2						3
706.3										5-5
				17.7						3
			CLAY (CL), dk.gr., m.hi.pl., dmp., w/f.g.-m.g. SAND							3-5
703.3	CL			31.1						2
										3-6
			SANDY CLAY (CL), gr., m pl., dmp , f.g.-c.g.	22.2	49	21	0	10	90	3
701.4				28.6						7-8
	SC-SM		CLAYEY SILTY SAND (SC-SM), br., ve. low pl., mst., f.g.-c.g. W.L. 3-5-92	32.7						1
698.8										1-2
				29.4	23	17	0	66	34	0-2
	SC		CLAYEY GRAVELLY SAND (SC), br., low pl , mst., f.g.-c.g.	24.3						2
695.8										1-2
										7
			SILTY SANDY GRAVEL (GM), br., non pl , wet, f.g.-c g.							12-12
694.3	GM						51	36	13	6
	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., wet, f.g.-c.g.							11-12
692.8										9
	NS		NO SAMPLE							12-12
689 3										
			SANDY CLAY (CL), gr.br., m.pl., wet, f.g.-c.g.							9
687.8	CL									8-12
	NS		NO SAMPLE							
684 3										
	CL		CLAY (CL), gr.br , m.hi.pl., wet							7
682.8										12-12
	NS		NO SAMPLE							
679.3										
	CL		CLAY (CL), gr.br , m.hi.pl., wet							6
682.8										8-10
	NS		NO SAMPLE							
674.3										
	CL		CLAY (CL), gr br.. m.hi pl., wet							4
672.8										7-10

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 2

PROJECT WEST COLUMBUS, OHIO LPP
CONTINUATION OF
HOLE NO. D-92-76

ELEVATION (FEET) MSL	SYMBOL	RSE*	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
672.8										
		NS	NO SAMPLE							
669.3										5
667.8	CL		CLAY (CL), gr.br., m.hi.pl., wet							9-11
		NS	NO SAMPLE							
664 3										
	CL ML		SILTY CLAY (CL-ML), gr.br., ve. low pl., wet							10
662 8										13-18
		NS	NO SAMPLE							
659.3										50
658.9	SH		SHALE (SH), hi.wd., br.-gr.							
657 8	NS		NO SAMPLE							BEGAN CORING
			CLAYSTONE Soft, shaly, partly calcareous, thin to shaly bedded.	82						
			Moderately broken with possible Ø.1' loss at 657.8-657.5.	L Ø.1						
			High angled fracture at 657.5-657.2, 644.2-643.9.	87						RQD
			Low angled (28°) bedding planes at 655.5, 655.3.	L Ø.2						LOSS
			Reduction in core diameter (mechanical) at 649 4-647.1, 645.8-643.5.	82						
			1.4' Shale, gray, soft to moderately hard, clayey at 648.4-647.Ø	L Ø.Ø						
	CLS		Moderately broken with high angled fracture at 645.7-645.Ø.	32						
			Thin (Ø.Ø2') clay seam at 644.4.	L Ø.Ø						
			Severely broken with Ø.2' loss at 643.8-643 4.	47						
			45° fracture at 643 4-643.2.	L Ø.2						
			Sandy at 643 4-643.2.	55						
			Pyritic at 64Ø.1-64Ø.Ø	L Ø.Ø						
638 1										
637.0	SLS		SILTSTONE: Gray, moderately hard, sandy with occasional thin fine grained sandstone stringers, slightly carbonaceous							BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPTIONAL)

SHEET 2 OF 2 SHEETS

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 21 Feb. 1992
COMPLETED 21 Feb. 1992
HOLE NO. D-92-77
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES:
N 713,030.1
E 1,857,608.0

ELEVATION (FEET) MSL	SYMBOL	RSE*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
720.4										4
	CL		GRAVELLY SANDY CLAY (CL), br., m.pl., dmp., f.g.-c.g., w/brick frags	15.0						2-7
717.4										5
	SC		GRAVELLY CLAYEY SAND (SC), br., m.pl., dmp., f.g.-c.g., w/brick frags	17.1						3-3
715.9				14.1			19	42	39	5
	CL		GRAVELLY SANDY CLAY (CL), br., m.pl., dmp , f.g.-c.g., w/brick frags							5-4
				7.8						5
712.9										9-8
				9 4	32	19				6
	SC		GRAVELLY CLAYEY SAND (SC), br., m.pl., dmp., f.g.-c.g., w/org mat.	11.6						7-7
709.9										8
				17.0						7-12
										4
			BRICK FRAGMENTS	14.1						5-5
										2
706.9										2-4
706.6				17.0						2
705.4			GRAVELLY SANDY CLAY (CL), br., m.pl., mst., f.g.-c.g., w/brick frags	8.6						5-7
			SANDY CLAY (CL), dk.gr , low pl., mst., f.g.-c.g. sand	26.6						5
703.9	CL			21.8			0	10	90	4-4
			CLAY (CL), dk.br., m.pl., mst., w/f.g.-c.g. sand							2
702.4				26.2	36	17				5-8
			SANDY CLAY (CL), br., m pl., mst., f.g.-c.g. sand	32.0					W.L	2
	SC								2-21-92	2-2
				28.1	31	16				2
697.9										2-3
			CLAYEY SAND (SC), br., m.pl., ve. mst., f.g -c.g. sand							0
696.4	SM									1-3
			SILTY GRAVELLY SAND (SM), br., non pl., wet, f.g.-c.g. sand							2
693.0	SP-SM									4-11
			SILTY GRAVELLY SAND (SP-SM), br., non pl., wet, f.g.-c.g. sand							6
691.9	GP-GM						43	45	12	10-12
			SANDY GRAVEL (GP-GM), br., non pl , wet, f.g.-c.g sand							9
690.4	SM									8-9
			SILTY GRAVELLY SAND (SM), br , non pl., wet, f.g.-c.g. sand							15
										16-11
										10
										12-16

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 20 Feb. 1992
COMPLETED 20 Feb. 1992
HOLE NO. D-92-78
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES:
N 712,919.4
E 1,857,507.7

ELEVATION (FEET) MSL	SYMBOL	RSE*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
717.5										2
716.0	CL		SANDY CLAY (CL), dk.br., m pl., dmp., f g.-c.g., w/brick frags	16.9						3-5
714.5			GRAVELLY SANDY CLAY (CL), dk br., low pl., dmp., f.g.-c.g., w/brick frags	19.4						3
713.0			CLAYEY SAND (SC), dk.br., low pl., dmp., f.g.-c.g., w/brick frags	17.2						3-4
										4
	SC		GRAVELLY CLAYEY SAND (SC), dk.br , low pl., dmp., f.g.-c.g., w/brick frags	27.4			17	43	40	2-1
710.0				25.3						1
				25.4						1-2
708.7			BRICK FRAGMENTS	28.4						2
708.5	CL		SANDY CLAY (CL), dk.br., low pl., dmp., f.g -c.g., w/brick frags	26.1						3-2
				29.0	47	30				2
705.5	ML		SANDY SILT (ML), dk.gr , low pl., dmp., f.g.-c g , w/org. mat.	32.7						2-2
				28.1						2
										4-5
	CL		SANDY CLAY (CL), dk.gr. olive, low pl , dmp.-ve. dmp., f.g.-c g., w/org mat m.hi.pl 15.0' - 16.5'	25.4						6-9
										2
701.0				28.4	42	18				4-4
			CLAYEY SAND (SC), olive, m.hi.pl.-m.pl , ve dmp.-mst., f.g.-c g.	25.6			0	65	35	2
	SC									2-2
				23.5	W L		2-20-92			1
696.5				26.7						1-1
										0
695.0	SM		SILTY GRAVELLY SAND (SM), br., non pl , wet, f.g.-c.g.							1-1
										1
			GRAVELLY SAND (SP-SM), br., non pl , wet, f.g.-c.g.							3-2
										4
	SP-SM									7-8
690 5										11
										11-11
										3
										10-10
										7
							19	69	12	9-9
689.0	GM		SILTY SANDY GRAVEL (GM), br., non pl., wet, f.g.-c.g.							7
	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., wet, f.g -c.g.							10-9
686.0										7
										10-11
										12
	SP-SM		GRAVELLY SAND (SP-SM), br., non pl., wet, f.g.-c.g.							14-16
684.5										13
							32	58	10	9-28
			SANDY CLAY (CL), gr., m.pl., wet, f.g -c.g							10
	CL									7-8
										3
680 0										8-12
			CLAY (CL), gr., m.pl., wet							3
										7-9
677.0										4
										6-10
										3
										9-11

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 9 March 1992
COMPLETED 9 March 1992
HOLE NO. UD-92-78
SAMPLER 5" F.P.
DROP ---
HAMMER ---
COORDINATES:
N 712,916.6
E 1,857,509.8

ELEVATION (FEET) MSL	SYMBOL	RSE*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200
717.8									
		NS	NO SAMPLE						
701.8									
699 8	SC		CLAYEY SAND (SC), dk.gr , low pl., f.g -c.g., med., w/org & shells	44.1	26	17	0	69	31
698.8	NS		NO SAMPLE						
696.7	SC		CLAYEY SAND (SC), br., low pl , f g -c.g., ve. soft, w/shells	21.0	25	17	0	64	36
		NS	NO SAMPLE						
683.8									
683.3	SP		SAND (SP), br , non pl., f.g -c.g., loose	23 8	40	20	0	1	99
681.6	CL		CLAY (CL), gr , m hi pl , stf.						

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 11 March 1992
COMPLETED 11 March 1992
HOLE NO. D-92-79
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES:
N 712,751.8
E 1,857,314.2

ELEVATION (FEET) MSL	SYMBOL	RSE*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
722.9										3
721.9	NS		NO SAMPLE							12-21
	SC		GRAVELLY CLAYEY SAND (SC), br.bk., m pl , dmp., f.g.-c g., w/wood frags & brick frags	18.2						3
718 9										2-2
				25.2	39	23				2
717 4	SM		GRAVELLY SILTY SAND (SM), br., non pl , dmp , f g.-c.g., w/brick frags	18.0						7-18
			SILTY SANDY GRAVEL (GP-GM), br., non pl., dmp., f.g.-c.g. sand							14
	GM			18.7						17-10
714.4				9.0			59	29	12	7
										6-7
712.9	SC		CLAYEY SANDY GRAVEL (SC), gr.br., low pl., dmp., f g.-c.g. sand	19.1						7
				22.1						7-7
			CLAYEY SANDY GRAVEL (GC), br., low pl., dmp., f.g.-c.g. sand							2
709.9	GC			17.5			42	41	17	3-3
										4
				21.3						2-2
706.9										5
				19.2	36	21				4-4
705.4	SP SM		GRAVELLY SAND (SP-SM), gr.bk., non pl., mst , f.g.-c.g , w/brick frags	23.5						6
			SANDY CLAY (CL), br.gr , m pl., dmp., f.g.-c.g. sand							3-6
703 9	CL			25.5						16
			ORGANIC CLAY (OL), gr.gn., m.pl., dmp							14-10
702.4	OL			25.3			0	13	87	5
			SANDY CLAY (CL), gn m hi pl , dmp., f g.-c.g. sand							7-8
	CL			25.5	43	17				4
698.8				26.3						5-7
				23.6	W L	3-11-92				2
697.9	SC		CLAYEY SAND (SC), gn.gr., low pl , mst , f.g -c.g. sand	28.7						3-3
										2
										1-2

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 12 March 1992
COMPLETED 12 March 1992
HOLE NO. D-92-80
SAMPLER 2" S S
DROP 30"
HAMMER 140#
COORDINATES:
N 716,712.5
E 1,857,236.0

ELEVATION (FEET) MSL	SYMBOL	RSE*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
723.1										1
722.1	NS		NO SAMPLE							1-3
	SM		GRAVELLY SILTY SAND (SM), gr.bk , non pl., dmp., f g.-c g., w/brick frags	25 4						2
719.1				20.8						1-4
										5
			GRAVELLY SAND (SP-SM), gr.bk., non pl., dmp., r.g.-c.g., w/brick frags	23.4						4-7
	SP-SM			23.9						2
				20.7						2-2
										2
				29.0			31	58	11	1-1
711.6				28 0						2
										1-1
			SILTY GRAVELLY SAND (SM), br.bk , non pl., dmp., f g.-c.g., w/brick frags	21.4						1
	SM			20.7						1-1
										2
				17.2						1-2
707.1										2
705.6	SP-SM		GRAVELLY SAND (SP-SM), bk , non pl., dmp., f.g.-c.g.	23.1						2-4
704.4	SC		CLAYEY GRAVELLY SAND (SC), br bk., non pl., dmp , f.g.-c g.							2
704.1	CL/ CH		GRAVELLY SANDY CLAY (CL), br bk , low pl , ve dmp., f.g.-c.g.	29.0						2
702.6				26.5	50	22				3-3
			SANDY CLAY (CL), dk br.bk., hi.pl., ve. dmp., f.g.-c.g.							1
				23.4			0	38	62	2-2
	CL		SANDY CLAY (CL), br.-bk , m.pl., ve. dmp., f.g.-c.g.	27.6						2
				28.9					W L	2-3
696.6				28.9					3-12-92	1
										1-2
	SM		SILTY SAND (SM), br.gr., non pl , ve. dmp., f.g -c g.	30 0						1
695.1										1-3
	SP-SM		GRAVELLY SAND (SP-SM), br., non pl., mst., f.g.-c.g.	25.2						2
693.6										2-3
	GP-GM		SANDY GRAVEL (GP-GM), br , non pl., wet, f.g.-c.g.							1
690.6										3-4
	SP-SM		GRAVELLY SAND (SP-SM), br., non pl., wet, f.g.-c.g.							7
689.1										21-25
	SM		SILTY GRAVELLY SAND (SM), br , non pl., wet, f g.-c.g.							7
687.6							49	42	9	8-10
	SP-SM		GRAVELLY SAND (SP-SM), gr., non pl., wet, f.g.-c.g.							11
683.1										11-13
										9
										14-20
										8
										11-13
										8
							36	57	7	19-20
										19
										17-15

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT)

SHEET 1 OF 1

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: G. HENSLEY
Drawn by: L. MERS
Checked by: L. RIGGS
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GRAPHIC LOGS OF BORINGS

Scale: AS SHOWN
Date: MAR 1997
Drawing Code: O16-PWC-10
Sheet reference number: 106
FILENAME LOGS DGN
PEN TABLE
Sheet of

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 12 March 1992 HOLE NO. UD-92-80
COMPLETED 12 March 1992
SAMPLER 5" F.P.
DROP —
HAMMER —
COORDINATES: N 712,719.1 E 1,857,234.4

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200
723.0									
	NS		NO SAMPLE						
705.0									
704.5	SC		CLAYEY GRAVELLY SAND (SC), dk.br.-bk., low pl., f.g.-c.g., soft-loose						
703.6	CL								
702.5	NS		NO SAMPLE						
	CL		GRAVELLY SANDY CLAY (CL), br , m.pl., f.g.-c.g., m.	24.4	41	17	0	32	68
700.4				22.9	36	15	0	41	51
700.0	NS		NO SAMPLE						
	CL		SANDY CLAY (CL), br., m.hi.pl , f.g -m g , m.	28.5	36	18	0	45	55
697.8			NO SAMPLE						
			SANDY CLAY (CL), br., m.pl., f.g.-c.g , soft-m.						

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 18 Feb 1992 HOLE NO. D-92-81
COMPLETED 18 Feb 1992
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 712,717.6 E 1,857,027.7

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
712.3										
711.3	NS		NO SAMPLE							
709.8	CL		GRAVELLY SANDY CLAY (CL), br., m.hi pl., dmp., f.g.-c.g.	12.7	39	18				8 7-6
708.3	SC		GRAVELLY CLAYEY SAND (SC), br., m pl., dmp., f.g.-c g., w/brick frags	17.1				15	38	47 2 3-4
705.3	GP-GC		SANDY GRAVEL (GP-GC), br.-bk., low pl., dmp., f g.-c-g., w/brick frags	18.4						1-2
				23 2						2-1
703.8	CL		SANDY CLAY (CL), bk.-dk.br., m.pl , dmp., f.g.-c-g.	36.5						2 2-3
702.3	CH		SANDY CLAY (CH), br., hi.pl., dmp., f g.-c g.	30.6	62	26				3 5-8
700.8			SANDY CLAY (CL), dk br., m.pl , dmp., f g.-c g.	31.2						4 5-7
699.3	CL		CLAY (CL), br., m.pl., dmp., w/f.g.-c.g. SAND	28 8				0	10	90 2 4-4
697.8			SANDY CLAY (CL), br , low pl., dmp., f.g.-c.g.	30.8						1 1-1
694.8	SC		CLAYEY SAND (SC), br., low pl., mst., f g.-c.g., w/shells	24.7						0 0-1
				23.5						0 2-2
693.3			CLAYEY GRAVELLY SAND (SC), br., low pl., mst.-wet, f.g.-c.g.	12.7						3 9-8
691.8	GP-GM		SANDY GRAVEL (GP-GM), br , non pl., wet, f.g.-c.g.					53	36	11 4 4-4
690.3			GRAVELLY SAND (SP-SM), br., non pl., wet, f g.-c.g.					W L	2-18-92	7 10-10
684.1	SP-SM		SANDY GRAVEL (GP-GM), br.-gr., non pl., wet, f g.-c.g.							7 9-11
	GP-GM							52	39	9 20 9-20
										15 21-20
										39-50

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION Vertical
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 4 Dec, 1989 HOLE NO. D-89-82
COMPLETED 8 Dec, 1989
SAMPLER 2"&3" SS
DROP 18" & 30"
HAMMER 140#&300#
COORDINATES: N 715,34 1.9 E 1,857,543.5

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
716.4										
714.9	SM		GRAVELLY SILTY SAND(SM), lt.br. gr., non pl., f.g.-c.g.,w/COAL							20-50/.3
713.4			SILTY GRAVELLY SAND(SM), br., non pl., f.g.-c.g.	17.5						2-50
	SC		CLAYEY GRAVELLY SAND(SC), br., m.pl., f.g.-c.g.				34	35	31	24 5 7-10
708.9				16.5	34	16				8 6-10
707.4			GRAVELLY CLAYEY SAND(SC), br., low pl., f.g.-c.g.	16.8			20	34	46	5 4-5
705.9	SM		SILTY SAND(SM), whi.-lt. gr. & lt. br., non pl., f.g.-c.g.							2 4-3
704.4	SC		GRAVELLY CLAYEY SAND(SC), lt. br.-br., low pl., f.g.-c.g.	54.4						13 14-8
703.4	SM		GRAVELLY SILTY SAND(SM), dk. br.-bk., non pl., f.g.-c.g., w/COAL				27	44	29	11 12-8
702.9	CL			W.L. 12-6-89						3
701.4	GP-CH		GRAVELLY SANDY CLAY(CL), br., m. pl., f.g.-c.g.							3-4
			SANDY GRAVEL(GP-GM), br.-bk., non pl., f.g.-c.g.							3 2-5
698.4										2 3-6
697.5	SM		WOOD, bk., decayed	F.W.						1 0-3
696.9	ML		SILTY SAND(SM), bk., non pl., f.g. w/WOOD				6	41	53	1 0-3
695.4	GM			F.W.						5-11
692.4	GP-GM		SANDY SILT(ML), dk. gr. bk., non pl., f.g.-c.g., w/WOOD	F.W.			62	28	10	7 17-35
			SILTY SANDY GRAVEL(GM), br., non pl., f.g.-c.g.	F.W.						17 21-42
			SANDY GRAVEL(GP-GM), br., non pl., f.g.-c.g.	F.W.						12 21-33
				F.W.			54	32	14	13 14-11
	GM		SILTY SANDY GRAVEL(GM), br., non pl., f.g.-c.g.	F.W.						19 16-22
				F.W.						9 12-14
				F.W.			51	36	13	10 12-15
				F.W.						28 23-26
681.9							43	43	11	15 18-20
681.2	GP-GM		SANDY GRAVEL(GP-GM), br.-dk. gr., non pl., f.g.-c.g.	F.W.						14 11-10
	SM		SILTY SAND(SM), br., non pl., f.g., w/so. m.g.-c.g.	F.W.			0	68	32	10 11-17
677.4				F.W.						29 13-50
675.9	GP-GM		SANDY GRAVEL(GP-GM), br., non pl., f.g.	F.W.			46	43	11	50/.4
674.4	SP-SM		GRAVELLY SAND(SP-SM), br., non pl., f.g.-c.g.	F.W.						0 50/.4
	NS		NO SAMPLE							50/.4
669.9										
	SP-SM		GRAVELLY SAND(SP-SM), br., non pl., f.g.-c.g.							50/.3
668.4	CL		CLAY(CL), br. gr., m. hi. pl., dmp., w/SILT seams	46	19	0	0	100		C.O. 27 33-44 18

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 1 OF 2 SHEETS

PROJECT WEST COLUMBUS, OHIO LPP
CONTINUATION OF HOLE NO. D-89-82

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS C	LL	PL	% +4	% SAND	% -200	BLOWS
666.4										
	CL		CLAY(CL), br. gr., m. hi. pl., dmp., w/SILT seams		47	19				24-30
							0	2	98	16 21-30
										12 16-26
							0	0	100	8 10-27
										11 17-26
					51	21				17 17-27
							0	0	100	7 14-17
										8 11-19
							0	0	100	9 11-19
										9 12-18
							0	0	100	9 14-18
					54	22				7 11-17
642.9										9 13-16
639.9	CL		CLAY(CL), br.-gr., m. pl.-m. hi. pl., dmp., w/so. SILT seams & SHALE		36	17				8 13-33
							1	11	88	21 39-50
638.4			SANDY CLAY(CL), br.-gr., m. pl., dmp., f.g.							18 50/.2
			LIMESTONE, dolomatic, and chert fragments, very hard, gray	REQ LOSS	Start of Coring					
632.4			LIMESTONE, very hard, gray crystaline nodules and layers of chert	L3.5	Top of Rock					
627.4				L1.2						
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 2 OF 2 SHEETS

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 13 March 1992 HOLE NO. D-92-83
COMPLETED 13 March 1992
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 712,320.4 E 1,856,963.5

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
721 8										
720.3	SC		CLAYEY SAND (SC), dk.br., low pl., f.g.-c.g.	30.2						1 1-2
718.8			GRAVELLY CLAYEY SAND (SC), bk.br., low pl., dmp , f.g.-c.g.	19.8						2 4-5
717.3			GRAVELLY SANDY CLAY (CL), br., low pl., dmp., f.g.-c.g.	15.4						2 3-7
	CL		SANDY CLAY (CL), br., m.pl., dmp., f.g.-c g.	17.0			12	31	57	5 7-9
			4.5' - 6.0' brick frags	17.0						6 6-7
712 8				15.5						6 5-6
711 3	CH		SANDY CLAY (CH), dk br., hi pl., dmp., f.g -c.g	25 6	56	28				6-8
			SANDY CLAY (CL), dk br.-br., m.pl , dmp , f.g -c.g.	18.3						3 6-10
	CL			22 1						7 5-6
			10 5' - 16.5' wood frags	21.2						3 4-5
705.3				25.1						6 7-5
	SC		GRAVELLY CLAYEY SAND (SC), br.-bk., low pl.-hi.pl., dmp., f g.-c.g.	36.5			21	50	29	6 7-5
702.3				26.1	53	27				4 3-3
			SANDY CLAY (CL), dk.br , m.pl., dmp., f.g.-c.g.	28.2						7 4-7
699.3	CL			30.5						5 5-8
697.8			CLAY (CL), dk br., m.pl., dmp	31.1			0	11	89	2 4-7
696.3	CH		SANDY CLAY (CH), dk.br., hi.pl., dmp., f.g.-c.g.	31.7	61	17				3-4
693.8	CL		SANDY CLAY (CL), br., m pl., dmp., f.g.-m.g	30.5						2 4-4
693.3	SM		SILTY SAND (SM), bk., non pl., dmp , f.g.-m.g.	29.2						2 3-4
691.8	ML		SANDY SILT (ML), bk., non pl., dmp., f.g.-c g.	33.2						3 5-8
690.3	GP-GM		SANDY GRAVEL (GP-GM), br , non pl., wet, f.g.-c.g.	47.4	W.L	3-13-92				10 7-13
687.3	GM		SILTY SANDY GRAVEL (GM), br , non pl., wet, f.g.-c.g.							19 19-15
	GP-GM		SANDY GRAVEL (GP-GM), br , non pl., wet, f g.-c.g.							30 19-11
684.3										13 9-9
	SP-SM		GRAVELLY SAND (SP-SM), br , non pl , wet, f g.-c.g.							12 22-19
681.3										7
			CLAY (CL), br.-gr , m.pl., wet							36 53 11 24-12
679.8										2 8-11
678.3	CL		SANDY CLAY (CL), br.gr., m.pl., wet, f g -m.g.							3 4-6
676.8			CLAY (CL), br.-gr., m pl., wet							1 3-6
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 23 March 1992 HOLE NO. D-92-84
COMPLETED 23 March 1992
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 713,270.9 E 1,856,623.1

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
712.6										
			SANDY CLAY (CL) , br., low pl.-m.pl., dmp., f g.-c.g., w/brick frags	21.7						2 2-2
709 6	CL			16.2						3 3-4
			GRAVELLY CLAYEY SAND (SC), br , low pl., dmp., f.g.-c.g., w/brick frage	18 4						2 2-3
706.6	SC			16.6			22	32	46	3 3-4
705 1	CL		SANDY CLAY (CL), br., m.pl., dmp., f.g.-c.g.	13.6						3 4-4
703.6	GP		GRAVEL (GP), gr -r., non pl., dmp , f.g -c.g., w/brick frags	15 1						3 7-15
702.1	GC		SANDY CLAYEY GRAVEL (GC), br.gr., m.pl , dmp., f.g.-c.g.	15 3						13 6-6
			SANDY CLAY (CL), dk.br., low pl.-m pl., ve. dmp , f g.-c.g.	20 8						2 3-5
	CL			27.8	35	18				2 2-2
				29 3						2 3-4
696.1			W.L. 3-23-92	28.1			2	18	80	1 3-3
694.6	CH		SANDY CLAY (CH), gr., hi.pl., ve. dmp., f.g -c.g.	34.2	52	17				1 2-3
693.3	CH		SANDY CLAY (CL), br , m pl , ve. dmp., f g -c g.	43.3						1 2-3
693.1	SM		SILTY SAND (SM), dk gr , non pl , wet, f g.-c.g.	32 6						1 2-3
691 6	GC									1 10-11
690.1	SM		SANDY CLAYEY GRAVEL (GC), gr -br., low pl., wet, f.g.-c g.				18	63	19	3 2-2
688.6			GRAVELLY SILTY SAND (SM), br., non pl , wet, f.g.-c g.							2 5-7
687.1	SP-SC									2 6-28
	GP		SILTY GRAVELLY SAND (SM), br., non pl , wet, f.g -c g.							8 11-9
	GM		GRAVELLY SAND (SP-SC), br., low pl., wet, f g.-c.g.							4 8-10
682.6										6 8-10
			SANDY GRAVEL (GP-GM), br., non pl., wet, f.g.-c.g.							4 8-10

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE NX
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 16 March 1992 HOLE NO. D-92-85
COMPLETED 17 March 1992
SAMPLER 2" S S
DROP 30"
HAMMER 140#
COORDINATES: N 712,292.9 E 1,856,590.8

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
720.9										
719.4	SC		CLAYEY SAND (SC), br., low pl., dmp., f.g.-m.g., w/trs.	15.7						1 1-1
			SANDY CLAY (CL), br.., m.pl., dmp , f.g.-c.g., w/tr brick frags	18.2	34	18				3 6-5
	CL			14.4						3 3-4
714.9				15.5						4 3-4
713.4	SC		GRAVELLY CLAYEY SAND (SC), br., m.pl., dmp., f.g.-c.g., w/tr. brick frags	13.5			24	30	46	8 8-9
711.9	CL		GRAVELLY SANDY CLAY (CL), br., m.pl., dmp., f.g.-c g.	14.3						6 6-6
710.4			SANDY CLAY (CL), br., m.pl., dmp., f.g.-c g.	13.2						3 4-6
708.9	SC		CLAYEY SAND (SC), br., m.pl., dmp., f.g.-c.g.	18.0						3 5-8
			SANDY CLAY (CL), br., m.hi pl.-m.pl., dmp.-ve.dmp., f.g.-c g.	19.3	39	18				2 4-7
					W L	3-17-92				2 5-3
			low pl. 18 0' -- 19 5'	17.9						3 4-5
				30.7						2 4-5
	CL			26.7						3 4-6
701.4				35.5						4-6
699.9			CLAY (CL), dk.br., m.pl., ve.dmp.	29.4			0	9	91	3 4-6
698.4			SANDY CLAY (CL), br., m.pl., ve. dmp., f.g.-c g.	33.2						1 3-4
696.9	CH		SANDY CLAY (CH), br., hi.pl., ve.dmp., f.g -c g.	30 6	56	18				2 3-5
695 4	CL		SANDY CLAY (CL), br., m.pl., ve.dmp., f.g.-c.g	31.2						2 3-4
694.1	SC		CLAYEY SAND (SC), br.-gr., low pl., ve. dmp., f.g.-c-g.	2.7						1 3-4
693.9	SM		SILTY GRAVELLY SAND (SM), br.-bk., non pl., mst , f.g -c.g	29.3						2 5-11
692.4	SP-SM		GRAVELLY SAND (SP-SM), br., non pl., mst., f.g.-c.g.	19.4						3 6-7
689.4	GM		SANDY GRAVEL (GP-GM), br., non pl., wet, f.g.-c.g.							7 10-14
687.9	GP							59	36	5 7 8-11
	GP-GM		SILTY SANDY GRAVEL (GP-GM), br., non pl., wet, f.g.-c.g. sand							9 9-10
684.9	GM		SANDY GRAVEL (GP-GM), br., non pl., wet, f.g -c.g.							11 14-16
683.4	SP-SM		GRAVELLY SAND (SP-SM), br., non pl., wet, f.g.-c.g.							7 7-6
681.9	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., wet, f.g.-c.g.							2
680.6	SM		SILTY SAND (SM), br.-gr., non pl., wet, f g.-c g					66	27	7 5-9
			SANDY CLAY (CL), gr -br , low pl - m pl., mst., f.g.-c g.							11 21-24
										13 22-28
										12 26-29
	CL									21 21-25
										9 18-76
										16 22-28
670 9										21 28-32

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 2

PROJECT WEST COLUMBUS, OHIO LPP
CONTINUATION OF HOLE NO. D-92-85

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS WC	LL	PL	% +4	% SAND	% -200	BLOWS
670 9										
668.4	CL		SANDY CLAY (CL), gr.-br., low pl.-m.pl. mst., f.g -c g.							24-26 13 21-25
666.9	CL-ML		SANDY SILTY CLAY (CL-ML), br gr.-olive, ve. low pl., dmp , f.g.-m g							7 13-22
664.5	ML		SILT (ML), gr -br., non pl., dmp.							7 10-21
663.4	NS		NO SAMPLE							30 50
			CLAYSTONE. Gray, soft, shaly, thin to shaly bedded	BEGAN CORING						
			Moderately broken with high angled fracture at 663.4-663 2, 662.9-661.6. Low angled (40°) fracture at 661 1-661 Ø, 656.2-656 1	96						
	CLS		High angled fracture at 660.1-660 Ø, 659 9-659.4, 655 3-654.6, 651.3-650 3.	L Ø.2						
			Severely broken with Ø.6' loss at 659.6-657 6	75 ← RQD						
			2.9' Shale, gray, moderately hard to soft. Clayey at 657.6-657.1.							
650.1			Moderately broken with Ø 4' loss at 653.7-652.7.	L Ø.6 ← LOSS						
			Reduced core diameter (mechanical) at 652.7-650 2	60						
649.1	SLS		SILTSTONE. Gray, moderately hard, sandy, occasional thin fine grained sandstone stringers throughout, slightly carbonaceous.	L Ø.4 BOTTOM OF HOLE						

NOTE Ø 1' clay with Ø 2' loss, possible overburden at 663.7-663.4.

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 2 OF 2 SHEETS

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 17 March 1992 HOLE NO. UD-92-85
COMPLETED 18 March 1992
SAMPLER 5" F P
DROP —
HAMMER —
COORDINATES: N 712,293 9 E 1,856,593.2

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	REMARKS OF TEST RESULTS WC	LL	PL	% +4	% SAND	% -200
720 9									
	NS		NO SAMPLE						
703.9									
701.7	CH		CLAY (CH), dk.gr , hi.pl., f.g.-c.g , m., w/org.	33.4	62	23	0	10	90
701.4	NS		NO SAMPLE						
699.3	CH		CLAY (CH), dk.gr., hi.pl., m., w/org.	33.4	66	23	0	6	94
698.9	NS		NO SAMPLE						
696.7	CH		SANDY CLAY (CH), dk.br , hi.pl., f g., m.-ve. soft, w/org.	30.0	59	21	0	19	81

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: G. HENSLEY
Drawn by: L. MERS
Checked by: L. RIGGS
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GRAPHIC LOGS OF BORINGS

Scale AS SHOWN
Date MAR 1997
Drawing Code O16-PWC-10
Sheet reference number 107
FILENAME LOGS DGN
PEN TABLE
Sheet of

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 19 March 1992
COMPLETED 19 March 1992
HOLE NO. D-92-86
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 712,465.1 E 1,856,561.7

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
708.7										
707.2	NS		NO SAMPLE							2
705.7	CL		SANDY CLAY (CL), bk.-br., m.pl., dmp., f.g.-c.g , w/brick frags	15 7						2-3
705.9	CH		SANDY CLAY (CH), dk.br., hi.pl , dmp., f.g.-m.g., w/brick frags	25.6						3-5
702.7										4
701.2	CL		CLAY (CL), dk.br., m pl., dmp., f g. SAND	24.1				0	11	89	7-9
699.7			SANDY CLAY (CL), dk.br., m.pl , dmp., f.g.-m.g.	25.7						5-6
698 2	CH		SANDY CLAY (CH), dk.br., hi.pl., mst., f.g.-m.g.	28.2	64	26				2 3-5
696.7	CL		CLAY (CL), dk br., low pl., mst., f.g.-c.g.,	31.8				0	13	87	2 3-4
693.7			SANDY CLAY (CL), dk.br.-gr , m.pl.- m hi pl., mst., f.g.-c g.	32.5						1 2-3
692.2	MH		SANDY SILT (MH), bk., hi.pl., mst., f.g.-c.g., w/wood frags	56.8						2 1-1
692.0	CL		SANDY CLAY (CL), gr.-bk., m.pl., wet, f.g.-c.g.	52.3	57	36				0 1-1
690.7	GM			55.7			W L 2-19-92			1 2-5
689.2	GP-GM		SILTY SANDY GRAVEL (GM), br., non pl., wet, f.g.-c g.	14.8				63	30	7 8-9
687.7	SP-SM		SANDY GRAVEL (GP-GM), br., non pl., wet, f g.-c.g.							2 9-12
686.2	GP		SAND (SP-SM), br., non pl., wet, f g -c.g.							9 9-11
684.7	GP-GM		SANDY GRAVEL (GP), br., non pl., wet, f.g.-c g							2 10-11
683.2	SP-SM		SANDY GRAVEL (GP-GM), br., non pl., wet, f g -c.g							7 8-8
681.7	GP-GM		GRAVELLY SAND (SP-SM), br., non pl., wet, f.g.-c.g.					66	28	6 11 11-12
678.7	SP-SM		SANDY GRAVEL (GP-GM), br., non pl , wet, f.g.-c g.							2 8-10
			GRAVELLY SAND (SP-SM), br., non pl., wet, f.g.-c.g.							6 6-7
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 28 Feb 1992
COMPLETED 28 Feb. 1992
HOLE NO. D-92-87
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 711,981.3 E 1,856,284.3

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
722.0										
721.0	NS		NO SAMPLE							4
	SC		CLAYEY SAND (SC), dk br.-br , m.pl., dmp., f.g.-c.g	13.4						7-3
718.0				22 5	40	22				3-4
716.5	CL		SANDY CLAY (CL), br , low pl., dmp., f.g.-c.g., w/brick frags	17 3				9	37	54	2 3-2
715.0	GC		SANDY CLAYEY GRAVEL (GC), dk.br., low pl., dmp., f.g.-c.g., w/brick frags	16.4						5 7-6
713.5	SC		SANDY CLAYEY SAND (SC), dk.br , m. pl., dmp., f.g -c.g., w/brick frags	17.8						4 5-6
713.3	CL		SANDY CLAY (CL), br., low pl., dmp , f.g.-c.g , w/brick frags	11.1				36	49	15	6 20-50
712.8	SM		SILTY GRAVELLY SAND (SM), br., non pl., dmp., f.g -c.g ,w/brick frags	12.5						2 4-4
712.0	SC		NO SAMPLE	13.6						3 7-10
			CLAYEY SAND (SC), br., low pl.- m pl., dmp., f.g.-c.g.	21.5						2 3-3
707.5				16 1	34	17				4 3-10
	CL		SANDY CLAY (CL), dk.br., m.pl.-low pl dmp , f.g.-c.g.	13.1						4 5-11
704.5				22.5						5 8-9
703 0			CLAY (CL), dk br , m.pl., dmp , f.g.-m.g. SAND	22.5				0	3	97	3 6-8
701.5			SANDY CLAY (CL), br., m.pl., dmp., f.g -c.g	24.8						3 5-8
700 0	CH		SANDY CLAY (CH), br , hi.pl , dmp.- mst., f.g.-c.g.	24.9	57	23				5 5-6
	CL		SANDY CLAY (CL), br , low pl.- m.pl., mst., f.g.-c.g.	24.0						3 3-3
				21.4						1 2-5
				21.1	25	18				3 1-3
694.0				20.5						5 6-6
			CLAYEY GRAVELLY SAND (SC), br , low pl., mst., f.g.-c.g	12.4			W.L 2-28-92			7 7-10
692.5	SC		SANDY GRAVEL (GP-GC), br., low pl., mst , f.g.-c.g							3 11-12
691.0	GP-GC		CLAYEY SANDY GRAVEL (GC), br., low pl., mst., f.g.-c.g.							8 13-14
689.5	GC		SANDY GRAVEL (GP-GM), br , non pl., wet, f g.-c.g.					56	27	17 5 17-13
686.5	GP-GM		GRAVELLY SAND (SP-SM), br., non pl., wet, f.g.-c.g							3 10-10
683 5	SP-SM		SILTY GRAVELLY SAND (SM), br., non pl., wet, f.g -c.g.					34	54	12 2 10-13
682.0	SM		BOTTOM OF HOLE							4 12-13

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 27 Feb. 1992
COMPLETED 27 Feb. 1992
HOLE NO. D-92-88
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 712,072.0 E 1,856,164.2

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
709.4										
707.4	CL		SANDY CLAY (CL), br., m pl., mst., f.g.-c.g , w/rts.	26.0						1 8-8
706.4	GP		SANDY GRAVEL (GP), br.r., mst., f.g.-c.g.	22.9						3 5-6
703.4	CL		SANDY CLAY (CL), r.br., m.pl., mst., f.g.-c.g , w/brick frags	20.2				12	21	67 6 12-14
701 9			CLAYEY GRAVELLY SAND (SC), gy.br., low pl., mst , f.g.-c.g.	21.1						9 11-9
698 9	SC		GRAVELLY CLAYEY SAND (SC), gr.br , low pl., mst., f.g.-c.g , w/brick frags	15 9	31	21				6 14-17
697.4			CLAYEY GRAVELLY SAND (SC), gr br , low pl , mst., f.g.-c.g.	20.8						8 15-19
694.4	SC-SM		CLAYEY SILTY GRAVELLY SAND (SC-SM), gr. br., ve. low pl.-low pl., mst , f.g.-c.g	16 5				40	45	15 5 10-9
692.9	GP		SANDY GRAVEL (GP-GM), br , non pl , wet, f.g.-c.g.	16 9						4 10-12
	GP-GM		SANDY GRAVEL (GP-GM), br , non pl , wet, f g.-c.g.	12.6	W L		4-27-92			6 12-13
688.4				14.7						6 19-11
686.9	SM		SILTY SAND (SM), br , non pl., wet, f.g.-c.g.							2 5-6
685.4			SILTY GRAVELLY SAND (SM), br., non pl., wet, f.g.-c.g							4 3-6
682.4	SP-SM		GRAVELLY SAND (SP-SM), br., non pl , wet, f.g.-c g							17 4-11
680 9	SP		SAND (SP), br., non pl , wet, f.g.-c.g.					59	35	6 15-9
679.4			GRAVELLY SAND (SP), br., non pl , wet, f.g.-c.g							5 8-14
			BOTTOM OF HOLE							6 10-9
										4 1-8
										5 8-22
										19 30

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 25 Mar. 1993
COMPLETED 25 Mar. 1993
HOLE NO. D-92-89
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 711,252.1 E 1,855,358.5

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
725.1										
724.1	NS		ASPHALT PAVEMENT	—						—
722.6	SP-SM		GRAVELLY SAND (SP-SM), br., non pl , dmp., c.g.-f.g., SAND	6.8						3 7-9
721 1	SC-SM		CLAYEY SAND (SC-SM), br., ve. low pl., dmp., c.g -f.g , SAND	8.1	20	14				8 11-12
719.6	SC		GRAVELLY CLAYEY SAND (SC), br., low pl., dmp., c.g.-f.g., SAND	9.4				25	58	17 9 14-8
718.1			GRAVELLY CLAYEY SAND (SC), br , low pl., dmp.,c.g.-f.g.,SAND,w/ro. frags	18.1						3 7-8
715.1	CL		SANDY CLAY (CL), br., low pl , dmp., c.g.-f.g., SAND, w/ro. frags	14 5	28	16				4 8-7
			SANDY CLAY (CL), br.-gr br , m.-low pl dmp , c.g.-f.g., SAND, w/decayed wood & ro. frags	10.9				10	37	53 3 11-1
711 4			SILTY SAND (SM), br.-gr , non pl , dmp., c.g.-f.g , SAND, w/ro frags	12 3						3 4-7
710.6	SM		GRAVELLY CLAYEY SAND (SC), br.-gr., m.hi.pl., dmp., c.g -f.g , SAND	8.2						3 8-9
709.1	SC		SANDY CLAY (CL), dk.br.-br., m.pl , dmp., c.g.-f.g., SAND, w/cinders & ro. frags	20.0						4 13-18
705.8	CL			7.4						2 4-5
			GRAVELLY SAND (SP-SM), br , non pl., dmp., c.g.-f.g , SAND, w/ro. frags	15.2	40	18				4 10-20
703.1	SP-SM		SILTY SANDY GRAVEL (GM), br., non pl., dmp., c.g -f g., GRAVEL	20.2				9	32	68 3 4-5
701.6	GM		GRAVELLY SAND (SP-SM), br., non pl , dmp , c g.-f.g., SAND	22.9						3 5-7
				20.7						4 10-12
				7.3						11 17-11
				5.9						17 17-17
			SILTY SANDY GRAVEL (GM), br., non pl., dmp., c.g -f g., GRAVEL	6.1				51	35	14 29-31
			GRAVELLY SAND (SP-SM), br., non pl , dmp , c g.-f.g., SAND	11.3						13 12-8
697.1	SP-SM			6.3						5 7-9
			SILTY SANDY GRAVEL (GM), br., non pl., dry, c.g.-f.g., GRAVEL, w/ma.ro. frags	6.7						15 13-21
694.1	GM			7.4						17 22-23
			SANDY GRAVEL (GP-GM), br., low pl , dmp.-ve. dmp , c.g.-f g., GRAVEL, w/ ma.ro. frags	7.3				55	32	13 23-21
691.1	GP-GM			10.8						15 20-15
689.6	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., wet, c.g.-f g., GRAVEL, w/ro. frags	10.1			W.L. 3-25-92			16 17-12
688.1	SP-SM		GRAVELLY SAND (SP-SM), br., non pl , wet, c g.-f.g., SAND, w/ro. frags	13.1						4 15-11
685.1	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., wet, c.g -f g., GRAVEL, w/ma ro. frags							3 10-11
			BOTTOM OF HOLE							6 14-17
										3 18-30

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 25 Feb. 1992
COMPLETED 25 Feb. 1992
HOLE NO. D - 92 - 90
SAMPLER 2" S.S
DROP 30"
HAMMER 140#
COORDINATES: N 714,367.4 E 1,855,358.1

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
711.2										
710.2	NS		ASPHALT PAVEMENT	—						—
708.7	SC		CLAYEY SAND (SC), br.-bk., low pl., dmp., c.g.-f.g. SAND, w/ro. frags	17.6						7 5-4
707.2	GM		SANDY GRAVEL (GP-GM), bk.-br., non pl., dmp., c.g.-f.g. GRAVEL w/ma.ro.frags	12 5				68	24	8 11 16-1
705.7	CH		SANDY CLAY (CH), br., hi.pl., dmp., c.g -f.g. SAND, w/ro. frags	22.0	58	23				9 3-5
704.2	SM		GRAVELLY SAND (SP-SM), br., non pl., dmp., d.g.-f.g. SAND, w/ma ro frags	7.7						5 12-11
			SILTY SANDY GRAVEL (GM), br., non pl., dmp., c.g.-f.g GRAVEL, w/ma.ro.frags	8.5				44	37	19 7 13-12
	GM		SANDY GRAVEL (GP-GM), br , non pl , dmp., c g -f g GRAVEL, w/ma.ro frags	12.1						16 16-16
698.2			SILTY SAND (SM), br.-gr.,non pl., dmp., c.g.-f.g GRAVEL,w/ro.frags	9.5				46	34	20 8 16-17
696.7	GP		GRAVELLY SAND (SP), br., non pl., dmp., c.g.-f.g. SAND	5.5						12 24-23
695.2	GM		SAND (SP-SM), br., non pl , mst., c g -f g.	6.7						4 23-18
694.7	SP		SILTY SANDY GRAVEL (GM), br., non pl., dmp., c.g.-f.g. SAND	6.6						10 17-19
693.7	SP-SM		CLAYEY SANDY GRAVEL (GC), br., low pl., mst., c.g.-f.g. GRAVEL, w/ro frags	8.5						2 9-10
692.2	GC		GRAVELLY SAND (SP-SC), br., low pl., mst., c.g.-f.g. SAND, w/ro frags	16.7				12	76	12 9-4
691.4	SP-SC		SAND (SP-SM), br , non pl , wet, f.g.-c g.	11 9			W L 2-25-92			10 13-10
690.7	CL-ML		CLAYEY SAND (SC), br., low pl., mst.,c.g.-f g SAND, w/ma ro frags	14.7						4 6-3
689.2	ML		GRAVELLY SAND (SC), br., low pl., mst., c.g.-f.g. SAND	26 9						6 6-3
687.7	SM		SANDY SILTY CLAY (CL-ML), br., ve. low pl., wet, m.g.-f.g. SAND	23.8				8	21	71 5 5-5
686.2	GC		SANDY SILT (ML), br., non pl., wet, m.g.-f.g. SAND							2 6-7
			SAND (SP-SM), br., non pl , wet, c.g.-f.g.							9 8-9
	GP		CLAYEY SANDY GRAVEL (GC), gr.-br , low pl., wet, c g -f g GRAVEL, w/ma. ro. frags							6 4-7
	GM		SANDY GRAVEL (GP-GM), br., non pl , wet, c.g.-f.g. GRAVEL, w/ma ro frags							5 6-7
680.2			BOTTOM OF HOLE							3 6-10

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 2 Mar. 1992
COMPLETED 3 Mar. 1992
HOLE NO. D-92-91
SAMPLER 2" S S
DROP 30"
HAMMER 140#
COORDINATES: N 711,686.2 E 1,855,401.7

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
710.4										
708.9	ML		SANDY SILT (ML), br., non pl , mst., g.-g -f g SAND	15.5						3 7-12
	CL		SANDY CLAY (CL), dk br., m.hi.pl., mst., c.g.-f.g , SAND, w/r brick & ro. frags	20.3	43	22.8				3 5-6
705.9				20.7				6	33	61 3 5-7
704.4	GC		SANDY CLAYEY GRAVEL (GC), br., m hi pl., c.g.-f g., GRAVEL, w/r brick & ro frags, mst	19.3	52.5	22.4				4 15-12
	SC		CLAYEY GRAVELLY SAND (SC), br., ve low pl., mst , c g -f g., SAND, w/ro. frags	7.8						4 38-50
699 9				15.9						10 22-13
				5 2						2 3-1
	SP-SM		SAND (SP-SM), br , non pl., mst , c g.-f g., SAND	5 8				7	83	10 4 3-1
				7 1						2 2-4
693.9				8.6						3 16-20
				8 1						10 47-41
	SP-SM		GRAVELLY SAND (SP-SM), br , non pl , c.g -f g. SAND, mst	16.7						8 9-10
690 9				16.6			W L 3-3-92			3 8-4
	SP-SM		GRAVELLY SAND (SP-SM), br., non pl , wet, c g -f.g., SAND, w/ro frags	11.9						8 38-50
687 9										8 18-40
			SAND, gr.-br., non pl., wet							10 21-50
683.4										6 6-8
681.9			SANDY SILTY GRAVEL, gr., non pl., wet							16 35-28
680.4			CLAYEY SILT, dk.gr., sli. pl., mst.							21 30-29
			BOTTOM OF HOLE							
			NOTE EL. 687.9 - 680 4 Field Classified by Inspector							

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 2 March 1992
COMPLETED 2 March 1992
HOLE NO. D-92-110
SAMPLER 2" S S.
DROP 30"
HAMMER 140#
COORDINATES: N 715,028 3 E 1,857,065 9

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
713 6										
712.1	SM		GRAVELLY SILTY SAND (SM), gr.br , non pl., dry, f g.-c g.,w/brick frags & org.	13.3						11 9-26
710 6			SILTY GRAVELLY SAND (SM),br gr., non pl , dry, f g.-c g.,w/brick frags & org.frags	4.5						12 13-9
709.1	SC		GRAVELLY CLAYEY SAND (SC), r br , low pl., dmp., f.g -c g., w/brick frags	22 1				16	56	28 6 8-8
	CL		SANDY CLAY (CL), gr.-br., m hi pl.- low pl., dmp., f.g -c.g , w/brick frags	13 4	46	24				3 4-5
704 9				23 0				0	28	72 2 3-5
V04.6	SC		CLAYEY SAND (SC), br., low pl., dmp., f.g.-c g.	19.5						2 3-4
	GM		SILTY SANDY GRAVEL (GM), gr.br., non pl., ve dmp., f.g.-c g.	12.6						3 7-10
701.6				16 8			W.L. 3-2-92			8 7-12
700.1	GM		SILTY SANDY GRAVEL (GM), br , non pl , ve. dmp., f.g -c.g.	12.8						18 17-16
	GP-GM		SANDY GRAVEL (GP-GM), br , non pl , wet, f.g.-c.g	12.0				46	42	12 6 11-13
697.1	GM									7 14-12
695.6	SP-SM		GRAVELLY SAND (SP-SM), br., non pl , wet, f g.-c.g.							7 11-16
	GP		SANDY GRAVEL (GP), lt br., non pl., wet, f.g -c g.							13 16-18
692.6										13 23-16
	SP		GRAVELLY SAND (SP), br , non pl., wet, f.g.-c.g							5 6-11
689.6										9 14-14
	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., wet, f g.-c.g.					66	29	5 7 6-5
686.6	GM									7 7-13
	GP-GM		SANDY GRAVEL (GP-GM), br.-gr , non pl., wet, f.g.-c.g.							19 36-50
683.6			BOTTOM OF HOLE							21 35-28

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 3 March 1992
COMPLETED 3 March 1992
HOLE NO. D-92-111
SAMPLER 2" S.S.
DROP 30"
HAMMER 140#
COORDINATES: N 711,795.9 E 1,855,709.6

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
708.1										
707.1	NS		NO SAMPLE							4
705 6	CL-ML		SANDY SILTY CLAY (CL-ML), br., ve. low pl , dmp , f.g.-c.g , w/rts	22.3						5-6
704.1	CL		GRAVELLY SANDY CLAY (CL), dk gr.br., m.pl., dmp., f.g.-c g., w/org. mat.	24.7	43	24				3 6-5
	OL		SANDY ORGANIC CLAY (OL), dk.br gr , m.pl., dmp., f.g.-c.g.	54.8						3 3-4
701.1				57.8						1 1-1
699.6	SC		GRAVELLY CLAYEY SAND (SC), dk.br , m.pl., mst., f.g.-c.g.	25.2				29	36	35 4 4-3
	OL		SANDY ORGANIC CLAY (OL), dk.gr , m.pl., mst., f.g.-c g., w/strong gasoline odor	35 6						1 4-3
696.6				29 2						3 3-14
695 1	GC		SANDY CLAYEY GRAVEL (GC),dk gr ,low pl., mst., f g -c.g.,w/strong gasoline odor	16.3			W.L. 3-3-92	54	21	25 9 13-15
	GP-GM		SANDY GRAVEL (GP-GM), br , non pl., wet, f g -c.g.	20.2						6 6-14
692.1				23.4				58	33	9 3 4-4
690 6	SP		GRAVELLY SAND (SP), br., non pl , wet, f g.-c g							2 6-15
689.1	GP-GM		SANDY GRAVEL (GP-GM), br , non pl , wet, f g.-c.g.							17 19-17
687.6	SC		GRAVELLY CLAYEY SAND (SC), br.gr , low pl , wet, f.g.-c.g.							7 15-19
686.1			CLAYEY GRAVELLY SAND (SC), gr., low pl., wet, f.g.-c.g.							6 6-8
	CL-ML		SILTY CLAY (CL-ML), gr., ve. low pl., wet, f g.-c.g.							3 6-8
										3 4-9
681.6										5 7-12
680.1	CL		CLAY (CL), gr , m pl., wet		31	17				5 8-12
	CL-ML		SILTY CLAY (CL-ML), gr , ve low pl., wet							5 9-14
675.6										5 9-13
	ML		CLAYEY SILT (CL-ML), gr., low pl., wet							5 8-11
671.1										5 8-10
	CL		CLAY (CL), gr , m.hi pl , wet							4 8-13
668.1			BOTTOM OF HOLE							6 8-12
										5 10-13
										4 8-11

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

CORE SIZE —
BATTER —
DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 18 March 1992
COMPLETED 19 March 1992
HOLE NO. D-92-112
SAMPLER 2" S S
DROP 30"
HAMMER 140#
COORDINATES: N 712,050 3 E 1,855,238 2

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
710 2										
709.2	NS		NO SAMPLE							7
708 7	CL		SANDY CLAY (CL), dk.br., low pl., dmp , f g.-c.g.	18.7						4-7
707 7	SC		CLAYEY SANDY CLAY (SC), r.br.,low pl..dmp.,f g.-c g.,w/brick frags	19.6						6 5-4
706 2	SC-SM		CLAYEY SILTY SAND (SC-SM), br., ve. low pl., ve. dmp , f g.-c.g , w/ brick frags	13.2	22	16				7 3-4
704.1	SC		GRAVELLY CLAYEY SAND (SC), dk br , low pl , ve. dmp , f g.-c.g., w/ brick frags	15.7				24	40	36 4 4-4
	SM		SILTY GRAVELLY SAND (SM), bk., non pl., ve dmp., f g.-c.g.	20.8						2 3-4
700.2				30.1						3 2-1
	SC		GRAVELLY CLAYEY SAND (SC), dk.gr.br., ve low pl. -low pl., ve dmp , f.g.-c.g., w/decayed wood frags, rts & org. mat	25.4						7 2-2
				27 3						2 2-3
				53 5						1 1-2
				35 7						2 2-3
				39 1				22	54	24 2 2-1
694 2	SP-SC		GRAVELLY SAND (SP-SC), gr br , non pl., wet, f.g.-c.g., w/wood frags	38.5			W L 3-19-92			6 6-3
693.0	SC		SAND (SP-SM), br , non pl , wet, f.g.-c g	24.4						2 2-3
691.2	SP-SM		GRAVELLY SAND (SP-SM), br , non pl , wet, f g.-c g.	23 9						7 7-12
689 7			SANDY GRAVEL (GP-GM), br , non pl , wet, f g.-c.g.	22.1						12 12-11
	GP-GM							64	29	7 8 6-15
682.2										11 16-21
										5 17-26
								51	39	10 15 19-19
679 2	SP		GRAVELLY SAND (SP), gr.br., non pl., wet, f.g -c.g.							5 12-26
677.7	GC		CLAYEY SANDY GRAVEL (GC), gr br., ve low pl., f.g.-c g.,							11 11-11
676 7	CL		CLAY (CL), gr., m.hi.pl., wet f g.-c g. SAND							19 18-26
676.2	GC		CLAYEY SANDY GRAVEL (GC), gr , ve. low pl., wet, f.g -c g							22 26-22
674.7	GP-GC		SANDY GRAVEL (GP-GC), gr , ve. low pl., wet, f.g.-c g							16 22-23
	SC-SM		GRAVELLY SILTY CLAYEY SAND (SC-SM), gr., ve low pl , wet, f g.-c g							13 22-34
670.2			BOTTOM OF HOLE							29 25-32
										18 28-34

* ROCK STRUCTURAL ELEMENTS (OPT) SHEET 1 OF 1

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: G. HENSLEY
Drawn by: L. MERS
Checked by: L. RIGGS
Reviewed by:
Approved by

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GRAPHIC LOGS OF BORINGS

Scale: AS SHOWN
Date: MAR 1997
Drawing Code: 016-PWC-10
Sheet reference number: 108
FILENAME: LOGS DGN
PEN TABLE
Sheet of

D-93-136

CORE SIZE — BATTER — DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 7 June 1993 COMPLETED 8 June 1993
HOLE NO. D-93-136
SAMPLER 2" S.S. DROP 30" HAMMER 140#
COORDINATES: N 711,721.8 E 1,855,552.7

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#+4	SAND	#200	BLOWS
709.3										
707.8	CL-ML		CLAYEY SILT (CL-ML), dk. br., low pl., dmp., w/f.g. SAND & rts.	17.3						3 8-12
706.3	SC		GRAVELLY CLAYEY SAND (SC), dk. br., low pl., dmp., f.g.-c.g.	12.1			21	49	30	9 7-7
705.7			CLAYEY SAND (SC), dk. br., low pl., dmp., f.g.-c.g.	16.2						4 2-2
703.3	SP		SAND (SP), br., non pl., dmp., f.g.-c.g.	5.4						4 3-3
701.8	SM-SW		SAND (SW-SM), br., non pl., dmp., f.g.-c.g.	5.4			1	92	7	7 1-1
700.3	SM		SILTY SAND (SM), br., non pl., dmp., f.g.-c.g., w/CLAY lumps	7.5						3 2-2
698.8	NS		NO SAMPLE							3 4-5
697.3	GP		GRAVEL (GP), br., non pl., dmp., f.g.-c.g.	5.4						8 7-6
695.8			SANDY GRAVEL (GP), br., non pl., dmp., f.g.-c.g.	10.7						17 16-27
694.3	SC		CLAYEY GRAVELLY SAND (SC), lt. r. br., low pl., mst., f.g.-c.g.	10.1			28	52	20	26 16-13
	GP		SANDY GRAVEL (GP), br., non pl., mst.- wet, f.g.-c.g.	16.2						11 14-11
				19.0						15 16-12
689.8				12.5						20 17-17
688.3	SM		SILTY SAND (SM), br., non pl., mst.- wet, f.g.-c.g.	14.4						14 15-17
686.8	GP		GRAVEL (GP), br., non pl., f.g.-c.g.	F.W.						20 11-12
685.3	GM		SILTY SANDY GRAVEL (GM), dk. y. br., non pl., wet, f.g.-c.g.				43	37	20	15 19-26
684.9	SM		SILTY SAND (SM), dk. y. br., non pl., f.g.-c.g.	F.W.		W.L 6-8-93				13 18-24
683.8										24 29-33
682.3	CL-ML		CLAYEY SILT (CL-ML), dk. y. br., low pl., mst., f.g.-c.g.							11 14-18
680.8			CLAYEY SILT (CL-ML), gr., ve. low pl., mst.				13	30	57	10 15-11
679.3			SANDY SILTY CLAY (CL-ML), gr., ve. low pl., mst., f.g.-c.g.							
			CLAYEY SILT (CL-ML), dk. gr., ve. low pl., mst.							

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 1 OF 1 SHEETS

D-93-137

CORE SIZE — BATTER — DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 8 June 1993 COMPLETED 9 June 1993
HOLE NO. D-93-137
SAMPLER 2" S.S. DROP 30" HAMMER 140#
COORDINATES: N 711,664.4 E 1,855,692.4

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#+4	SAND	#200	BLOWS
708.1										
706.6	CL-ML		CLAYEY SILT (CL-ML), dk. br., low pl., dmp., w/rts.	16.7						3 7-11
705.1			SANDY CLAYEY SILT (CL-ML), dk. br., ve. low pl., dmp., f.g.-c.g., w/COAL	16.4						8 8-3
703.6	SM		SILTY SAND (SM), br., non pl , dmp., f.g.-c.g.	5.9						4 1-1
701.9	SC		CLAYEY SAND (SC), ve. dk. br., low pl., mst., f.g.-c.g. w/COAL & wood	25.3			13	55	32	2 2-3
700.6	PT		PEAT, bk	40.2 76.8						2 2-8
697.6	CL		CLAY (CL), dk. br. - dk gr br., low pl., mst., w/f.g. SAND	19.0						3 3-1
696.1	GC		CLAYEY GRAVEL (GC), br., low pl., mst., f.g.-c.g.	16.3			72	14	14	4 4-6
694.6	NS		NO SAMPLE							8 8-8
693.1	GM		SILTY SANDY GRAVEL (GN), br., non pl., wet, f.g.-c.g.	16.2						14 10-8
690.1	GP		GRAVEL (GP), br., non pl., wet, f.g.-c.g.	12.7						4 9-13
				24.4						8 11-6
688.6			SANDY GRAVEL (GP), br., non pl , wet, f.g.-c.g.	13.4		W L 6-9-93				3 3-3
687.1	GP-GM		SANDY GRAVEL (GP-GM), dk. y. br., non pl., f.g.-c.g.	F.W.			48	41	11	6 8-42
685.6	GC		SANDY CLAYEY GRAVEL (GC), gr., low pl., mst., f.g.-c.g.							4 4-13
	CL-ML		CLAYEY SILT (CL-ML), gr., ve. low pl., mst.							8 14-27
681.1										12 14-19
679.6			GRAVELLY SILTY CLAYEY SILT (CL-ML), gr., ve. low pl., mst., f.g.-c.g.				15	20	65	14-21
678.1	NS		NO SAMPLE							15 16-10
	CL-ML		SANDY CLAYEY SILT (CL-ML), gr., ve. low pl., dmp.-mst., f.g.-c.g.							12 16-26
670.6										18-25
669.1	SC-SM		CLAYEY SILTY SAND (SC-SM), gr., ve. low pl., dmp., f.g.-c.g.				0	55	45	13 16-13
667.6	SC		GRAVELLY CLAYEY SAND (SC), gr., low pl., dmp., f.g.-c.g.							10 19-28
663.1	ML		SILT (ML), gr., non pl., dmp , w/ f.g. SAND				0	1	99	12 19-25
										12 17-22
										12 17-21
										11 16-23
										13 25-35
										11 16-23
										12 19-24
										12 20-28

BOTTOM OF HOLE

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 1 OF 1 SHEETS

D-93-138

CORE SIZE NX BATTER — DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 1 June 1993 COMPLETED 4 June 1993
HOLE NO. D-93-138
SAMPLER 2" S.S. DROP 30" HAMMER 140#
COORDINATES: N 711,563.5 E 1,855,945.6

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#+4	SAND	#200	BLOWS
724.8										
721.8	GM		SILTY SANDY GRAVEL (GM), gr.-gr. br., non pl., dry, f.g.-c.g.	6.5						3 9-23
720.3	SC		GRAVELLY CLAYEY SAND (SC), r. br., low pl., dry, f.g.-c.g. low pl. 6.0'-9.0'	11.1			69	18	13	15 17-17
715.8			GRAVELLY CLAYEY SAND (SC), br., m. pl., dry, f.g.-c g.	15.4						9 12-14
				14.6						10 10-15
				12.7						3 3-10
				19.5						6 12-14
714.3	GP-GC		CLAYEY SANDY GRAVEL (GP-GC), br. gr., ve. low pl., dry, f.g.-c.g.	11.5			66	22	12	8 15-13
711.3	GC		CLAYEY GRAVELLY SAND (SC), gr. br., low pl., dry, f.g.-c.g.	22.6						3 7-5
				19.6						4 4-6
708.3			CLAYEY SANDY GRAVEL (GC), br., low pl., dmp., f.g.-c.g.	9.8						3 4-7
				14.8						14 14-15
706.8	GP-GC		SANDY GRAVEL (GP-GM), br., non pl., dmp., f.g.-c.g.	7.4						9 5-5
705.3	GC-MC		SANDY SILTY CLAY (CL-ML), dk. gr. bk., ve. low pl., dmp, f.g.-c.g.	36.3			11	24	65	4 6-6
702.3	SM-SC		GRAVELLY SILTY CLAYEY SAND (SM-SC), dk. gr. bk., ve. low pl., dmp., f.g.-c.g. w/COAL	35.7						7 11-11
				60.3						17 9-3
700.8	SM		GRAVELLY SILTY SAND (SM), bk., non pl., dmp., f.g.-c.g., w/org.	44.1		W.L 6-4-93				4 4-4
699.3	SC		GRAVELLY CLAYEY SAND (SC), dk. gr. bk., low pl., dmp., f.g.-c.g., w/org.	30.7						3 3-4
696.3	GP-GC		CLAYEY (GP-GC), br., ve. low pl., dry, f.g.-c.g.	15.5			79	12	9	9 33-33
				6.6						12 22-17
694.8	GP		SANDY GRAVEL (GP), br., non pl., dry, f.g.-c.g.	9.2						18 21-18
693.3	GW-GM		SANDY GRAVEL (GW-GM), br., non pl., f.g.-c.g.	F.W.			69	24	7	8 15-16
690.3	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., f.g.-c.g.	F.W.						15 14-8
688.8	SP		GRAVELLY SAND (SP), br., non pl , f.g.-c.g.	F.W.						11 16-29
	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., f.g.-c g	F.W.						10 10-8
684.3				F.W.						4 30-22
682.8	GM		SILTY SANDY GRAVEL (GM), br., non pl., f.g.-c.g.	F.W.			52	31	17	19 31-23
681.3	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., f.g.-c.g.	F.W.						57 100-80
	GP		SANDY GRAVEL (GP), br., non pl., f.g.-c.g. gr. br. 48.0' - 49.5'	F.W.						90 30-50
675.5				F.W.						26 19-32
674.8	SP		GRAVELLY SAND (SP), br., non pl., f.g.-c.g.	F.W.						16 33-34
				F.W.						20 30-40
										34 29-33
										33 25-35

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 1 OF 2 SHEETS

D-93-138 CONTINUATION

PROJECT WEST COLUMBUS, OHIO LPP
CONTINUATION OF HOLE NO. D-93-138

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#+4	SAND	#200	BLOWS
674.8										
673.8	SP		GRAVELLY SAND (SP), br., non pl.							45-60
672.3	GP		SANDY GRAVEL (GP), br., gr., non pl., f.g.-c.g.	F.W.						15 12 68-80
670.8	SC		GRAVELLY CLAYEY SAND (SC), gr., dmp. low pl., f.g.-c.g.				19	32	49	66 89-135
669.3	SM		GRAVELLY SILTY SAND (SM), gr., non pl., dmp., f.g.-c.g.							42 93-150
667.8	SP		GRAVELLY SAND (SP), br. gr., non pl., f.g.-c.g.	F.W.						117-150
666.3	ML		SANDY SILT (ML), br., non pl., dmp., f.g.-c.g.							22 44-72
664.8	SM		SILTY SAND (SM), br., non pl., mst., f.g.-c.g.							21 44-71
663.3	GP-GM		SILTY SANDY GRAVEL (GP-GM), br , non pl., f.g.-c.g.	F.W.						35 57-65
661.8	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., f.g.-c.g.	F.W.			51	37	12	41 72-129
	GP-GC		SANDY GRAVEL (GP-GC), br., ve. low pl., f.g.-c.g.	F.W.						89 130-165
658.8				F.W.						89 36-103
657.3	SM		SILTY SAND (SM), dk. gr., non pl., mst., f.g.-c.g.				3	73	24	37 57-59
655.8			SILTY GRAVELLY SAND (SM), br. gr., non pl., mst., f.g.-c.g.							37 51-70
654.3	SP-SM		GRAVELLY SAND (SP-SM), dk. br., non pl., f.g.-c.g.	F.W.						52 150
			SHALE, gr., hi. wd.							13 50-108
652.5										150
651.9	CLS		CLAY: gray, very soft, calcareous, numerous small rock fragments, 0.3' loss. 652.3-652.5							BEGAN CORING
650.4			CLAYSTONE: Gray, soft, shaly, slightly to mod. broken, occasionally pyritic. Clay coated bedding planes below 651.2.	60						POSSIBLE TOP OF ROCK
647.3	SLS		SILTSTONE: Brownish gray, mod. hard, calcareous, numerous dark gray stringers throughout, occasionally pyritic. Thin (0.02') black chert bed at 647.3.	L 0.3						
	LS		LIMESTONE: Gray to brownish gray, mod. hard to hard, fine to very fine textured, silty, occasional chert nodules throughout.	100						RQD
			Numerous interbedded shaly stringers above 644.1.	L 0.0						LOSS
			Numerous, large, black, chert nodules at 643.9-641.0.	96						
			Scattered, very thin, calcite filled, low angled fractures and bedding planes at 641.4-640.7.	L 0.0						
635.7			LIMESTONE: Light gray, hard, fine to medium textured, highly fossiliferous, partly crystalline.	98						
	LS		Numerous marine fossil fragments at 635.7-635.6	L 0.0						L 0.0
632.3				100						BOTTOM OF BORING

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 2 OF 2 SHEETS

D-93-139

CORE SIZE NX BATTER — DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 9 June 1993 COMPLETED 16 June 1993
HOLE NO. D-93-139
SAMPLER 2" S.S. DROP 30" HAMMER 140#
COORDINATES: N 711,547.3 E 1,855,988.3

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#+4	SAND	#200	BLOWS
723.7										
723.4	NS		NO SAMPLE							
721.7	SM		SILTY GRAVELLY SAND (SM), br., non pl., dry-dmp., f.g.-c.g.	7.9						18 8-20
718.3	GC		CLAYEY SANDY GRAVEL (GC), dk. br. gr., low pl., dmp., f.g.-c.g.	19.8						10
717.7				18.3			35	33	32	12-14
716.2	SP		GRAVELLY SAND (SP), br., non pl., dmp., f.g.-c.g.	20.9						5 5-3
714.7	SC		GRAVELLY CLAYEY SAND (SC), br., low pl., mst., f.g.-c.g.	17.4						8 9-10
				13.0						6 4-7
	GC		SANDY CLAYEY GRAVEL (GC), br., low pl., f.g.-c.g.	17.7						3 3-3
710.2				24.8			30	25	45	1 2-1
708.7	CL		SANDY CLAY (CL), br., low pl., mst., f.g.-c.g.	25.7						4 4-4
707.2			GRAVELLY SANDY CLAY (CL), br., low pl., mst., f.g.-c.g.	17.5						4 3-5
706.9			GRAVELLY SILTY SAND (SM), dk. gr. br., non pl., mst., f.g.-c.g.	19.4						4 3-3
	SM		SILTY SAND (SM), dk. gr. br.-r. br., non pl., dmp., f.g.-c.g., org. 16.8'-18.0', glass 19.5'-21.0'	23.2						6 6-6
702.7				49.9						7
701.2				25.2			7	46	47	12-13
700.5	OL		GRAVELLY SILTY SAND (SM), r. br , non pl., mst.-wet, f.g.-c.g.	30.4						4 2-1
698.8	CL		GRAVELLY SANDY SILT (OL), dk. gr. bk., non pl., mst., f.g.-c.g., w/org.	38.5						4 2-2
698.2	GC		SANDY CLAY (CL), br., m. pl , mst., f.g.-c.g.	40.6						4 2-5
696.7	GP-GC		GRAVELLY SANDY CLAY (CL), dk. gr. bk., non pl., mst., f.g.-c.g., w/org.	29.2						2 18-13
695.2	SC		GRAVELLY SANDY CLAY (GC), br., ve. low pl., mst., f.g.-c.g.	26.2						10
	SP-SM		GRAVELLY SANDY CLAY (GC), br., low pl., mst., f.g.-c.g.	11.3						12-13
692.2			CLAYEY GRAVELLY SAND (SC), br., low pl., mst., f.g.-c.g.	10.2			72	18	10	10 12-13
690.7	GW-GM		GRAVELLY SAND (SP-SM), br., non pl., wet, f.g.-c.g.	11.1						7 7-9
689.2			SANDY GRAVEL (GW-GM), br., non pl., f.g.-c.g.	19.1		W.L. 6-16-93				3 10-9
687.7	SP		SAND (SP), br., non pl., f.g.-c.g.	F.W.						10 12-12
			GRAVELLY SAND (SP), br., non pl., f.g.-c.g.	F.W.						11 11-14
684.7	GP		SANDY GRAVEL (GP), br., non pl., f.g.-c.g.	F.W.						43 43-23
683.2	SP		GRAVELLY SAND (SP), br., non pl., f.g.-c.g.	F.W.						9 17-4
680.2	GP		SANDY GRAVEL (GP), br., non pl., f.g.-c.g.	F.W.						33 33-11
				F.W.						50 100-80
678.7	SP-SM		GRAVELLY SAND (SP-SM), r. br., non pl., f.g.-c.g.	F.W.						43 34-25
677.2	GP-GM		SANDY GRAVEL (GP-GM), br., non pl., f.g.-c.g.	F.W.						34 91-136
	SW-SM		GRAVELLY SAND (SW-SM), br., non pl., f.g.-c.g.	F.W.			40	51	9	34 75-180
673.7				F.W.						100 150-174
										44

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 1 OF 2 SHEETS

D-93-139 CONTINUATION

PROJECT WEST COLUMBUS, OHIO LPP
CONTINUATION OF HOLE NO. D-93-139

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#+4	SAND	#200	BLOWS
673.7										
672.7	SW-SM		GRAVELLY SAND (SW-SM), br., non pl.	F.W.						150-190
	GP		SANDY GRAVEL (GP), br., non pl., f.g.-c.g.	F.W.						55 150-169
669.7				F.W.						35 139-192
	SP		GRAVELLY SAND (SP), gr., non pl., f.g.-c.g.	F.W.						28 42-158
667.1				F.W.						91 303-100
666.7	NS		NO SAMPLE							
665.2	SM		SILTY SAND (SM), br. gr., non pl., f.g.-c.g.	F.W.			4	67	29	34-50
664.7	SP		SAND (SP), br., non pl., f.g.-c.g.	F.W.						20 98-88
662.2			GRAVELLY SAND (SP), br., non pl., f.g.-c.g.	F.W.						44 102-227
660.7	GP		SANDY GRAVEL (GP), br., non pl., f.g.-c.g.	F.W.						70 177-265
659.2	GW-GM		SANDY GRAVEL (GW-GM), br., non pl.,	F.W.			56	37	7	71 76-94
657.7	SM		SILTY GRAVELLY SAND (SM), dk. gr., non pl., f.g.-c.g.	F.W.						39 54-53
656.2	GP-GM		SANDY GRAVEL (GP-GM), dk. br., non pl., f.g.-c.g.	F.W.					200	29 40-55
655.2	NS		NO SAMPLE							38 47-54
654.4	GM		SILTY SANDY GRAVEL (GM), br., non pl., f.g.-c.g.							
653.7	SH		SHALE, gr., wd.							
652.6	CL		CLAY: Gray, very soft, calcareous, numerous rock fragments, 0.8' loss. 653.7-652.6.	36						BEGAN CORING
650.3	CLS		CLAYSTONE: gray, soft, shaly, occasionally pyritic. Severely broken with 0.4' loss at 651.7-651.0. Decreased core diameter, mechanical below 651.0.	L 0.8						POSSIBLE TOP OF ROCK
646.9	SLS		SILTSTONE: Gray to brownish gray, mod. hard, calcareous, numerous stringers throughout, occasionally pyritic. Thin black pyritic layer at 647.0-646.9.	85						RQD
	LS		LIMESTONE: Gray to brownish gray, mod. hard to hard, fine to very fine textured, silty, large black and brown chert nodules throughout, numerous stringers throughout.	L 0.4						LOSS
			High angled (60) fracture, calcite filled, terminating on a bedding plane at 643.9-643.7.	100						
635.5			Numerous, thin, calcite filled, fractures and bedding planes at 643.9-642.5.	L 0.0						
631.4	LS		LIMESTONE: Light gray, hard, fine to medium textured, highly fossiliferous, partly crystalline.	100						
				L 0.0						BOTTOM OF BORING

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 2 OF 2 SHEETS

D-93-141

CORE SIZE NX BATTER — DIRECTION VERTICAL
PROJECT WEST COLUMBUS, OHIO LPP
DATE STARTED 7 June 1993 COMPLETED 10 June 1993
HOLE NO. D-93-141
SAMPLER 2" S.S. DROP 30" HAMMER 140#
COORDINATES: N 711,497.9 E 1,855,969.9

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#+4	SAND	#200	BLOWS
724.2										
722.7	SC		GRAVELLY CLAYEY SAND (SC), br , low pl., dry, f.g.-c.g., w/rts.	18.1						3 4-24
719.7	GC		CLAYEY SANDY GRAVEL (GC), dk br -r br., low pl , dry, f.g -c g	11.7			44	32	24	24 24-14
718.2	SC		GRAVELLY CLAYEY SAND (SC), dk. gr br low pl., dry, f.g.-c.g.	17.4						13 20-13
716.7	GC		CLAYEY SANDY GRAVEL (GC), dk. gr br , ve. low pl , dry, f.g.-c.g.	26.6						4 5-10
715.2	GP		GRAVEL (GP), br. gr., non pl , dry, f.g.-c.g	12.1						5 5-7
710.7	GC		SANDY CLAYEY GRAVEL (GC), dk gr , low pl., dry, f g -c g dmp 10 5' - 13 5'	8.7						12 6-5
709.2	SC		CLAYEY GRAVELLY SAND (SC), br , low pl., dmp , f g -c g.	20 9			42	26	32	19 6-7
703.2	GC		CLAYEY SANDY GRAVEL (GC), dk gr , low pl , dmp , f g -c g w/f brick frags. and COAL	12.0						21 11-13
701.7	CL		SANDY CLAY (CL), br , m. pl , mst , f g.-c.g.	13 1						9 9-8
698.7	GP-GC		SANDY GRAVEL (GP-GC), gr. br , ve low pl , dmp , f g -c.g	10 0						10 25-25
694.2	GC		CLAYEY SANDY GRAVEL (GC), br , low pl , dry - mst , f g -c g	21.4						9 8-8
691.2	GP-GC		SANDY GRAVEL (GP-GC), br., ve low pl wet, f g -c g	28.1						23 25-7
688.2	GP		SANDY GRAVEL (GP), br , non pl , f g -c g	25.8						4 12-6
686.7	SP		GRAVELLY SAND (SP), br , non pl , f.g.-c.g., w/rts.	38.4						6 5-4
682.2	GP-GM		SANDY GRAVEL (GP-GM), br , non pl , f.g -c g	33.4						7 6-7
677.7	GP		GRAVELLY SAND (SP), gr br , non pl , f g -c g	15 2			76	15	9	9 27-20
676.2	SP		GRAVELLY CLAYEY SAND (SC), gr br , ve low pl , dmp , f g -c.g	12.0						25 18-23
674.7	SC		SANDY CLAY (CL), gr., low pl , dmp , f g -c.g.	10 3						13 16-18
674.2	CL			10 9						9 12-12
				11 2						10 7-11
				17 6		W L 6-10-92	73	20	7	12 22-9
				F.W.						6 7-22
				F W						13 9-15
				F W						23 14-13
				F W						9 9-9
				F W			64	25	11	16 26-32
				F.W.						59 55-72
				F W						13 48-45
				F W						34 45-57
				F W						100 80-75
671.7			GRAVELLY SAND (SP), gr br , non pl , f g -c g	F W						18 24-43
670.2	SP		GRAVELLY CLAYEY SAND (SC), gr , low pl , dmp , f g -c g	F W						80 60-40
668.7	SC		SANDY CLAY (CL), gr., low pl , dmp , f g -c.g.							100
667.2	CL						9	33	58	77

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 1 OF 2 SHEETS

D-93-141 CONTINUATION

PROJECT WEST COLUMBUS, OHIO LPP
CONTINUATION OF HOLE NO D-93-141

ELEVATION (FEET) MSL	SYMBOL	R.S.E.*	DESCRIPTION OF MATERIALS	WC	LL	PL	#+4	SAND	#200	BLOWS
674.2										
671.7	GP-GC		SANDY GRAVEL (GP-GC), gr , ve low pl., f g -c g	F.W.						150-72
670.2	GP-GM		SANDY GRAVEL (GP-GM), gr , non pl , f g -c g	F W						93 150-145
668.7	SP		GRAVELLY SAND (SP), gr , non pl , f g -c g	F W			49	41	10	45 89-105
666.7	GP		GRAVELLY SAND (GP), gr , non pl , f g -c g	F W						150 130-171
				F W						150 150-90
662.7	SM		SILTY GRAVELLY SAND (SM), gr br., non pl , f g -c g	F W			41	42	17	150 116-156
				F W						150 150-130
659.7	GP-GM		SANDY GRAVEL (GP-GM), gr br , non pl , f g -c.g	F W						41 150-130
				F W						65 150-150
655.2	SM		SILTY GRAVELLY SAND (SM), br , non pl , f g -c g	F.W.			39	45	16	150 145-160
654.7	NS		NO SAMPLE	F W						82 160-150
653.2			SHALE, gr wd							87 160-150
650.4	CLS		CLAYSTONE: Gray, soft, slightly to severely broken, occasionally pyritic weathered Severely broken, clay coated w/0 6 loss at 653 2-652 2	36 L 0 6						95-150 BEGAN CORING
647.6	SLS		SILTSTONE Gray to brownish gray, mod hard, calcareous, numerous dark stringers throughout, occasionally pyritic, occasional thin chert seams, thin (0 02'), black, pyritic seam at 647 6	85 L 0 1						RQD LOSS
	LS		LIMESTONE Gray to brownish gray, mod hard to hard, silty, fine to very fine textured, large chert nodules and seams throughout, occasional calcite filled bedding planes	100 L 0 0						
			2.2' Siltstone gray, mod hard, calcareous, numerous dark stringers throughout, occasional chert nodules and seams at 645 0-642 8	100						
			Low angled (30°) fracture through chert seam at 641 0-640 9	L 0 5						
634.7				100						
633.2	LS		LIMESTONE Light gray, hard, fine to medium textured, highly fossiliferous partly crystalline.	L 0 1						BOTTOM OF BORING

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 2 OF 2 SHEETS

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: G. HENSLEY
Drawn by: L. MERS
Checked by: L. RIGGS
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GRAPHIC LOGS OF BORINGS

Scale: AS SHOWN
Date: MAR 1997
Drawing Code: 016-PWC-10
Sheet reference number: 109
FILENAME PEN TABLE: LOGS DGN
Sheet of

CORE SIZE NX
BATTER
DIRECTION VERTICAL
DATE STARTED 25 May 1993
COMPLETED 28 May 1993
PROJECT WEST COLUMBUS, OHIO LPP
HOLE NO. D-93-143
SAMPLER 2" S S
DROP 30"
HAMMER 140#
COORDINATES:
N 711,512.3
E 1,855,927.3

ELEVATION (FEET) MSL	SYMBOL	RSE *	DESCRIPTION OF MATERIALS	WC	LL	PL	%+4	%SAND	%-200	BLOWS
725.3										
	SM		GRAVELLY SILTY SAND (SM), dk br , non pl , dry-dmp , f g -c g. w/org	18.0						9 10-12
722.3				13.8						7 18-25
720.8	GM		SILTY SANDY GRAVEL (GM), br , non pl., dry, f g -c g.	10.0			65	22	13	14 14-13
719.3	SC		CLAYEY GRAVELLY SAND (SC), br , low pl., dry, f.g.-c.g.	8.2						7 11-17
717.8	GP-GM		SANDY GRAVEL (GP-GM), gr br , non pl., dry, f g -c.g.	5.3						49 48-21
716.3	GC		CLAYEY SANDY GRAVEL (GC), gr br , low pl., dry, f.g.-c.g. w/r brick frags	18.0						13 13-13
714.8	SC		GRAVELLY CLAYEY SAND (SC), r gr br.. low pl., mst., f.g.-c.g.,w/r. brick	14.7						15 8-15
713.3	GP-GC		SANDY GRAVEL (GP-GC), r gr br , ve. low pl., mst., f.g.-c.g.,w/brick frags	14.0			74	19	9	6 13-13
710.3	SC		GRAVELLY CLAYEY SAND (SC), br , low pl., mst , f g.-c.g	17.6						14 10-7 20 9-11
708.8	GC		CLAYEY SANDY GRAVEL (GC), gr.br., low pl., mst., f g.-c.g.	24.7						37 17-13
707.3	CL		GRAVELLY SANDY CLAY (CL), br , m pl., dmp., f.g.-c.g.	19.6						8 9-10
705.8			SANDY CLAY (CL), dk. gr br , low pl , dmp., f.g.-c g., w/org. odor	15.3						7 6-9
702.8	SM		SILTY GRAVELLY SAND (SM), dk gr. bk., non pl , mst -wet, f g -c g , w/slag & COAL	33.5						6 7-11
701.3	GC		SANDY CLAYEY GRAVEL (GC), br , m. pl., mst., f.g.-c g.	29.7						8 10-10
699.8	CL		SANDY CLAY (CL), br., m pl., mst	20.7			34	25	41	13 26-19
696.8	GP-GC		SANDY GRAVEL (GP-GC), gr br , ve. low pl , mst., f.g.-c.g.	18.5						10 12-13
695.3	GW-GM		SANDY GRAVEL (GW-GM), gr br , non pl., wet, f.g.-c.g.	6.0						11 6-22
693.8	GM		SILTY SANDY GRAVEL (GM), gr br., non pl., wet, f.g.-c.g.	8.0						23 23-25
690.8	SP		SANDY GRAVEL (SP), gr., non pl., f.g.-c.g.	13.5			75	19	6	10 9-5
687.8	GP		SANDY GRAVEL (GP), gr., non pl , f.g.-c g	12.4	W.L. 5-28-93					14 10-22
686.3	GW-GM		SANDY GRAVEL (GW-GM), gr , non pl , f.g.-c.g.	F.W.						14 13-10
684.8	GP		SANDY GRAVEL (GP), br , non pl , f.g.-c.g.	F.W.			70	24	6	7 10-13
681.8	GP-GM		SANDY GRAVEL (GP-GM), r br , non pl , f g -c g	F.W.						15 22-18
680.3	SP		GRAVELLY SAND (SP), br , non pl , f g.-c.g	F.W.						14 36-16
678.8	GP		SANDY GRAVEL (GP), gr., non pl , f.g.-c.g	F.W.						9 14-22
677.3	GP-GM		SANDY GRAVEL (GP-GM), br , non pl , f.g.-c g.	F.W.			48	45	7	22 32-33
675.3	GP		SANDY GRAVEL (GP), br , non pl , f.g.-c g	F.W.						22 43-12 24 43-24
										10 23-15
										13 16-20
										12 22-18
										14 21-22 76

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 1 OF 2 SHEETS

PROJECT WEST COLUMBUS, OHIO LPP
CONTINUATION OF
HOLE NO D-93-143

ELEVATION (FEET) MSL	SYMBOL	RSE *	DESCRIPTION OF MATERIALS	WC	LL	PL	%+4	%SAND	%-200	BLOWS
675.3	GP		SANDY GRAVEL (GP), br , non pl	F.W.						48-38
672.8	SP		GRAVELLY SAND (SP), gr. br., non pl., f.g.-c.g.	F.W.						10 20-16
671.3	CL		SANDY CLAY (CL), gr , m pl , f.g.-c.g.	F.W.			14	29	57	50
669.8	SC		GRAVELLY CLAYEY SAND (SC), gr , low pl., f.g.-c g.	F W						14 36-37
668.3	SP-SM		GRAVELLY SAND (SP-SM), gr , non pl., f.g.-c g.	F W						40 54-60 59 55-90
	GP-GM		SANDY GRAVEL (GP-GM), gr , non pl., f.g.-c g.	F W			54	40	6	87 100-65
663.8				F.W.						30 31-30
	SP		GRAVELLY SAND (SP), br., non pl., f.g.-c.g.	F.W.						49 120-109
660.8	SM		SILTY GRAVELLY SAND (SM), br , non pl., f.g.-c.g	F W			36	51	13	75 100-98 30 63-45
657.8	GP		SANDY GRAVEL (GP), br., non pl ,	F W						25 85-100
656.3			OVERBURDEN 0.2' Granitic cobble recovered with 0.8' loss	F.W.						100 50
655.3	CLS		CLAYSTONE gray, soft, clayey, moderately to severely broken, occassionally calcareous, weathered, occassionally pyritic Shaly above 653.8. Numerous clay seams with rock fragments and 1.0' loss below 653 8	0	BEGAN CORING					
650.6	SLS		SILTSTONE Gray to brownish gray, mod. hard, calcareous, numerous dark stringers throughout Thin (0 01') calcite filled bedding plane at 647 6 Thin black pyritic seams at 647 5, 646.8, 646 3	L 0 8	POSSIBLE TOP OF ROCK L D W. @ 656 3					
646.3	LS		LIMLSTONE Gray to brownish gray, mod hard to hard, silty, fine to very fine textured, large chert nodules and seams throughout, numerous dark stringers throughout , 3' Siltstone gray, mod hard, calcareous, numerous stringers at 645 1-643 8 Numerous, thin, calcite filled fractures at 642 9-641 3 High angled (70°) fracture with a planor and irregular surface at 637 5-637 0	32	RQD					
635.5	LS		LIMESTONE Light gray, hard, medium to fine textured, highly fossilferous, partly crystaline	L 1 0	LOSS					
630.8				96						
				L 0 2						
				100						
				L 0 0						
				100						
				L 0 0						
				100						
				L 0 0	BOTTOM OF BORING					

* ROCK STRUCTURAL ELEMENTS (OPTIONAL) SHEET 2 OF 2 SHEETS

CORE SIZE
BATTER VERTICAL
DIRECTION
DATE STARTED 10 MAY 94
COMPLETED 11 MAY 94
PROJECT WEST COLUMBUS LPP
HOLE NO. D-94-169
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 711,382.2
E 185,590.6

ELEVATION (FEET) MSL	SYMBOL	RSE *	DESCRIPTION OF MATERIALS	WC	LL	PL	%+4	%SAND	%-200	BLOWS
726.4										
724.9	CL		SANDY CLAY (CL), gr -br , m -hi pl , dmp , f g -c g , w/rl							3 5-8
721.9	SC		GRAVELLY CLAYEY SAND (SC), gr br , med pl , dmp , f g -c g , w/red brick	15.2	37	19	30	32	38	7 11-12 7 11-17
720.4	GP-GM		SANDY GRAVEL (GP-GM), lt br , nonpl mst f g -c g							11 12-12
718.9	GM		SILTY SANDY GRAVEL (GM), lt br , nonpl , mst , f g -c g	8.9			61	26	13	11 12-16 59 19-12
717.4	GP-GM		SANDY GRAVEL (GP-GM), lt br , nonpl , mst , f g -c g							30 31-30
715.9	GC		CLAYEY SANDY GRAVEL (GC) br , low pl mst f g -c g	11.1			50	34	16	49 120-109
714.4	GP-GM		SANDY GRAVEL (GP-GM), br , ve low pl , mst , f g -c g							12 9-7
711.4	GC		CLAYEY SANDY GRAVEL (GC), br , ve low pl , mst , f g -c g	14.0			55	26	19	7 6-9 7 9-17
709.9	GP-GC		SANDY GRAVEL (GP-GC), br , ve low pl , mst , f g -c g							8 14-11
708.4	GC		CLAYEY SANDY GRAVEL (GC), br , low pl , mst , f g -c g							18 10-15
707.9	GP-GC		SANDY GRAVEL (GP-GC), br , ve low pl , mst , f g -c g							14 12-18
704.9	SC		CLAYEY GRAVELLY SAND (SC), bk -br , ve low-low pl , mst , f g -c g	28.3			31	39	30	17 25-18
702.4	GP-GM		SANDY GRAVEL (GP-GM) br -lt br , nonpl , mst , f g -c g							11 12-15 26 16-18
700.9	SM		SILTY GRAVELLY SAND (SM), br , nonpl , mst -wet, f g -c.g	12.0			33	46	21	17 39-38
697.9	GP-GM		SANDY GRAVEL (GP-GM), lt br , nonpl , mst -wet, f g -c g							30 28-30 49 50-50
696.4	GW-GM		SANDY GRAVEL (GW-GM), lt br , nonpl , mst -wet, f g -c g	6.4			56	35	9	39 29-34
691.9	GP-GM		SANDY GRAVEL (GP-GM) y br , nonpl , mst -wet, f g -c g , w/F W							19 19-18 19 19-16 19 24-26
690.4	GW		SANDY GRAVEL (GW), y br , nonpl , wet, f g -c g w/F W	W. 5/11/94			66	30	4	28 24-25
681.4	GP-GM		SANDY GRAVEL (GP-GM), y br , nonpl , wet, f g -c g w/F W				64	27	9	15 16-6 14 26-21 15 17-19 21 30-33 18 26-39 21 33-36
679.9	SM		SILTY GRAVELLY SAND (SM) br , nonpl , wet, f g -c g , w/F W				39	49	12	14 15-21
676.4	GP-GM		SANDY GRAVEL (GP-GM), br , nonpl , wet, f g -c g , w/F W							16 16-22 25 23-24 28

SHEET 1 OF 2 SHEETS

PROJECT WEST COLUMBUS
CONTINUATION OF
HOLE NO. D-94-169

ELEVATION (FEET) MSL	SYMBOL	RSE *	DESCRIPTION OF MATERIALS	WC	LL	PL	%+4	%SAND	%-200	BLOWS
676.4										
675.4	GP-SM		SANDY GRAVEL (GP-GM), y br , nonpl , f g -c g F W @ 49 5'							48-50
672.4	SM		SILTY GRAVELLY SAND (SM), br -gr, nonpl , f g -c g olive br , F W @ 53'				39	45	16	34 35-36 34 48-52
670.9	ML		SANDY SILT (ML) br gr , nonpl , f g -c g w/F W				0	33	67	19 32-36
669.4	SM		SILTY SAND (SM), br gr , nonpl , f g -c g , w/F W							34 42-48
667.9	SP-SM		GRAVELLY SAND (SP-SM), br -gr, nonpl , wet, f g -c g							36 58-50
666.4	GW-GM		SANDY GRAVEL (GW-GM), br -gr , nonpl , wet, f g -c g				54	39	7	50 42-80
			BOTTOM OF BORING							

SHEET 2 OF 2 SHEETS

CORE SIZE NA
BATTER VERTICAL
DIRECTION NA
DATE
STARTED 6/11/96
COMPLETED 6/11/96
PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-198
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 715152.0
E 1857716.5

ELEVATION (FEET) MSL	SYMBOL	RSE *	DESCRIPTION OF MATERIALS	WC	LL	PL	%+4	%SAND	%-200	BLOWS
719.5										
718.9	CL		SANDY CLAY (CL), dk br , m pl , dry, f g -c g , w/grass and rts	21.2						7 5-7
	SC		CLAYEY SAND (SC), dk br , m pl , dry, f g -c g br @ 3 0' - 6 0'	14.3						6 5-5 4 3-3
713.5				16.3	30	17				2 5-5
710.5			GRAVELLY SANDY CLAY (CL), br , m pl , dry, f g -c g , w/ coal part	19.8			15	34	51	4 3-4
	CL		SANDY CLAY (CL), br , m hi pl , dry, f g -c g	21.8	42	19				3 6-3 2 2-2 4 4-3
			dk br , dmp , f g @ 13 8' - 21 5'	26.1						3 3-5
				30.5	47	18				W.L. 6/11/96 5 5-6
			olive br @ 16 5' - 22 5'	28.4			-	19	81	6 8-7 5 8-6
697.0			wet @ 21 5' - 22 5'	30.0	40	16				2 3-4 3 4-6
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE NA
BATTER VERTICAL
DIRECTION NA
DATE
STARTED 6/11/96
COMPLETED 6/11/96
PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-199
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 715023.3
E 1857826.8

ELEVATION (FEET) MSL	SYMBOL	RSE *	DESCRIPTION OF MATERIALS	WC	LL	PL	%+4	%SAND	%-200	BLOWS
728.6										
728.2	CL		CLAY (CL), dk br ,low pl , dry, w/grass, rts & strong org. od	34.7						3 10-10
719.7			RED BRICK FRAG							8 12-7
717.6	SC		GRAVELLY CLAYEY SAND (SC), br , low pl , dry, f g -c g , w/red brick frag & coal part	15.3			22	37	41	5 5-8
714.6	CL		SANDY CLAY (CL), br , low pl , dry, f g -c g , w/red brick part	27.2						4 5-4
714.5			ONE 1½" GRAVEL/ FRAG							4 4-3
711.7	SM		GRAVELLY SILTY SAND (SM), bk , nonpl , dry, f g -c g	20.1			17	61	22	2 4-5
709.9	SC		CLAYEY SAND (SC), dk br , m hi pl , dry, f g -c g	23.9						5 3-4 4 5-5
707.3	CL		SANDY CLAY (CL), br , m hi pl , dmp , f g -c g	28.9	43	21				2 5-3 15 7-6 6 4-5 9-11
	CH		CLAY (CH), dk olive gr , hi pl , dmp , w/f g sand	27.9	55	22				5 6-10 4 4-7 4 6-7
			br @ 15 6' - 18 4'	28.0			-	11	89	10 12-12 10 10-9 4 5-7
			dk olive gr @ 18 4' - 21 3'	28.7						6 7-5 5 2-2
699.3	CL		CLAY (CL), dk olive br , m hi pl., wet, w/f g sand	30.6						5 5-6 2 2-5
698.1			BOTTOM OF HOLE							5

* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE NA
BATTER VERTICAL
DIRECTION NA
DATE
STARTED 6/11/96
COMPLETED 6/11/96
PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-200
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 714941.5
E 1857981.1

ELEVATION (FEET) MSL	SYMBOL	RSE *	DESCRIPTION OF MATERIALS	WC	LL	PL	%+4	%SAND	%-200	BLOWS
721.5										
720.8	CL		CLAY (CL), dk br , low pl , dry, w/grass & rts	27.7						5-6
718.5	SC		CLAYEY SAND (SC), br , low pl , dry, f g -c g , w/red brick, coal & glass part	18.8						17 14-11
717.4	SM		SILTY SAND (SM), br & bk , nonpl , dry, f g -c g , w/red brick part	32.5	N - P					13 11-58+
716.0	NS		DRILLING WITHOUT SAMPLING							AUGERED
713.0	GP		GRAVEL (GP), br , nonpl , dry, f g -c g	15.2						6 4-3 2 1-4
710.3	SC		GRAVELLY CLAYEY SAND (SC), bk & whi , m pl , dry, f g -c g	27.4			23	48	29	5 3-4 2 5-3
708.0	CL		CLAY (CL), br , m pl , dmp , w/f g SAND	31.0						6 4-5
	CH		CLAY (CH), br , hi pl , dmp , w/f g SAND	29.7	54	24				5 6-10
701.4			f g -c g SAND @ 19 0' - 19 5'	27.3						4 6-7
			olive br , f g SAND @ 19 5' - 20 1'	38.4	51	23				10 12-12
699.0	CL		CLAY (CL), olive br , m hi pl , dmp , f g SAND	26.4						10 10-9
			BOTTOM OF HOLE	31.6			-	8	92	4 4-5 5 5-6 5

* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE NA
BATTER VERTICAL
DIRECTION NA
DATE:
STARTED 6/19/96
COMPLETED 6/19/96
PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-201
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 714640.9
E 1858127.5

ELEVATION (FEET) MSL	SYMBOL	RSE *	DESCRIPTION OF MATERIALS	WC	LL	PL	%+4	%SAND	%-200	BLOWS
0										
720.6	NS		DRILLING WITHOUT SAMPLING (CONCRETE)							AUGERED
	CL		SANDY CLAY (CL), low pl , dry, f g -c g , w/red brick & coal part	19.9						5 5-5 6 6-6
714.6				17.9	31	19				32 9-6 7 7-8
712.7	SC		CLAYEY GRAVELLY SAND (SC), br & bk , low pl , dry, f g -c g , w/red brick part	22.2						7 10-19
711.6	NS		DRILLING WITHOUT SAMPLING (BRICKS)							3000+ AUGERED
708.6	SC-SM		SILTY GRAVELLY SAND (SC-SM), dk br , ve low pl , dry, f g -c g , w/red brick pieces	14.0	27	22				42 36-30 28 21-23
	CL		SANDY CLAY (CL), br , low pl , dry, f g -c g	25.0						15 9-18 8 6-8
			dmp , f g sand @ 16 5' - 21 0'	24.3					W.L. 6/19/96	8 8-9
				22.9						10 10-9
701.1			wet, lt br @ 18 6' - 21 0'	29.2			-	46	54	6 4-4 2 3-3
25.0	ML		SANDY SILT (ML), lt br , nonpl , f g -m g , w/ F W							1 1-1 1 3-2
27.0	SM		SILTY SAND (SM), lt br , nonpl , wet, f g -c g							2 4-8 12 14-18
	GP-GM		SANDY GRAVEL (GP-GM), lt br , nonpl , wet, f g -c g	16.2			63	28	9	18 19-20 21 23-24
			F W @ 30 0' - 33 0'							19 24-22 75 68-38
			gr. br @ 33 0' - 36 0'							34 34-37 32 38-31
			gr @ 36 0' - 39 0'							53 48-48 32 78-158
680.1			gr br @ 39 0' - 42 0'	12.5			49	43	8	35 48-96 88 84-69
	SP-SM		GRAVELLY SAND (SP-SM), gr br , nonpl , wet, f g -c g	12.4			17	73	10	48 32-42 36 25-43 33 26-36 42 32-62 37 34-48 107

* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 2 SHEETS

PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-201

ELEVATION (FEET) MSL	SYMBOL	RSE *	DESCRIPTION OF MATERIALS	WC	LL	PL	%+4	%SAND	%-200	BLOWS
672.1										
671.1	SP-SM		GRAVELLY SAND (SP-SM), gr br , nonpl , wet, f g -c g							52-60
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS SHEET 2 OF 2 SHEETS

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: G. HENSLEY
Drawn by: L. MERS
Checked by: L. RIGGS
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GRAPHIC LOGS OF BORINGS

Scale: AS SHOWN
Date: MAR 1997
Drawing Code: 016-PWC-10
Sheet reference number: 10/10
FILENAME, PEN TABLE: LOGS DGN
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CORE SIZE NA
BATTER VERTICAL
DIRECTION NA
DATE
STARTED 6/18/96
COMPLETED 6/18/96
PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-202
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 714375.5
E 1858202.2

ELEVATION (FEET) MSL	SYMBOL	* RSE	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
728.2										
726.7	NS		DRILLING WITHOUT SAMPLING (ROAD MATERIAL)							AUGERED
			CLAY (CL), br., low pl., dry, w/fg-mg SAND							50/4"
				23.4						3-4
										4-6
			fg SAND @ 4.5' - 7.5'							2-3
				23.3						3-5
			m pl., fg-mg SAND, w/rts., red brick part & a 3" piece of GRAVEL @ 7.5' - 8.7'	23.0						1-2
										2-3
	CL		dmp @ 8.7' - 18.8'	24.6	34	18				3-3
										2-2
			m hi pl., w/wood chips @ 10.5' - 13.5'	26.7	40	18				2-2
			olive br @ 13.5' - 14.0'	26.7						4-4-5
			dk gr., fg SAND @ 14.0' - 16.5'							3-4
				28.7						2-3
709.4			coal part & org od @ 16.5' - 18.8'	33.5						3-4-6
	SP		GRAVELLY SAND (SP), br., nonpl., dmp., fg-cg							10-13-6
706.5				11.6						7-5-6
			CLAY (CL), ve dk gr., m pl., dmp., w/fg SAND and org od							8-6-12
705.3				26.2						5-5-7
705.2			SANDY CLAY (CL), dk br., m pl., dmp., fg-cg	26.2						6-6-6
703.7	CL		CLAY (CL), dk gr., m hi pl., dmp., w/fg SAND	25.7	45	19				2-2-2
701.2			CLAY (CL), olive br., m hi pl., wet, w/fg-mg SAND							1-1-1
	SM		SILTY SAND (SM), lt br., nonpl., wet, fg-cg	25.4			4	59	37	2-2-2
698.1										5-8-9
697.5	CL		CLAY (CL), bk., m pl., wet, fg-cg., w/gravel and brick frags							9-9-12
695.2	SP		GRAVELLY SAND (SP), br., nonpl., wet, fg-cg							14-21-26
	SM		SILTY GRAVELLY SAND (SM), br., nonpl., wet, fg-cg	20.3			41	43	16	22-27-28
689.2										18-19-33
										51-25-21
	GP-GM		SANDY GRAVEL (GP-GM), gr br., nonpl., wet, fg-cg	14.1			51	41	8	27-19-21
686.2										35-21-21
685.3	SM		SILTY GRAVELLY SAND (SM), gr br., nonpl., wet, fg-cg							33-84-36
685.1	SC		CLAYEY GRAVELLY SAND (SC), gr., low pl., dmp., fg-cg SAND, fg GRAVEL							32-34-47
681.5	CL		SANDY CLAY (CL), olive gr., low pl., dmp., fg-cg							35-102-146
679.5	SM		GRAVELLY SILTY SAND (SM), olive br., nonpl., wet, fg-cg	16.8			20	57	23	76-71-75
678.0	SP		SAND (SP), gr br., nonpl., wet, fg-cg							15-36-29
678.2	SM		SILTY SAND (SM), gr br., nonpl., wet, w/fg SAND	24.1						49-128-115

* ROCK STRUCTURAL ELEMENTS — SHEET 1 OF 2 SHEETS

PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-202

ELEVATION (FEET) MSL	SYMBOL	* RSE	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
678.2										31-44
	SM		SILTY SAND (SM), gr br., nonpl., wet, fg-cg							50/4"
665.2										137-166
	SM		SILTY GRAVELLY SAND (SM), gr., nonpl., wet, fg-cg							27-67-105
662.2			BOTTOM OF HOLE							22-51-57
										50/4"
										48-105
										18-64-129
										31-115-184
										53-97-214
										78-122-189
										32-85-58
										49-128-115

* ROCK STRUCTURAL ELEMENTS — SHEET 2 OF 2 SHEETS

CORE SIZE NA
BATTER VERTICAL
DIRECTION NA
DATE
STARTED 6/12/96
COMPLETED 6/12/96
PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-203
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 713716.2
E 1858252.5

ELEVATION (FEET)	SYMBOL	* RSE	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
719.7										
719.2	NS		DRILLING WITHOUT SAMPLING							16-27
716.4	CL		SANDY CLAY (CL), gr br., nonpl., dry, fg-cg	7.4						5-3
										19
				21.7						28-49
	CL		SANDY CLAY (CL), br., m pl., dry, fg-cg w/brick frags							2
										5-7
				20.5	40	23				8
										6-4
710.9				17.3						3
										5-4
709.2	NS		DRILLING WITHOUT SAMPLING							7
	CL		GRAVELLY SANDY CLAY (CL), br., m pl., dry, fg-cg w/brick frags	15.1						7-7
708.2										8
707.9	CL		SANDY CLAY (CL), br., m pl., dry, fg-cg	24.1						7-100+
706.2	CH		SANDY CLAY (CH), dk gr., hi pl., dry, fg-cg w/org odor	29.4	54	27				-
	CL		SANDY CLAY (CL), br., m pl., dmp., fg-cg	28.2						7
703.6				21.9						6-6
	SC		CLAYEY SAND (SC), br., low pl., wet, fg-cg, w/F W	23.7						6-6-6
701.7				26.7						3
	SC		SILTY SAND (SM), br., nonpl., wet, fg-cg, w/F W and cr she							2-2-2
699.4				26.5			-	25	75	2
										1-3-3
	SP-SM		GRAVELLY SAND (SP-SM), br., nonpl., wet, fg-cg, w/F W and cr she				W.L. 6/11/96			6-6
696.4										8-12-12
	GP-GM		SANDY GRAVEL (GP-GM), br., nonpl., wet, fg-cg, w/F W							11-18-20
694.2				14.7			68	23	9	17-24-26
692.5	GP		SANDY GRAVEL (GP), br., nonpl., wet, fg-cg, w/F W							22-22-31
	SP		GRAVELLY SAND (SP), br., nonpl., wet, fg-cg, w/F W							29-35-87
689.7										48-68-116
	SP-SM		GRAVELLY SAND (SP-SM), gr., nonpl., wet, fg-cg, w/F W							46-68-72
687.3				12.1			41	49	10	33-31-24
685.2	CL		SANDY CLAY (CL), gr., low pl., dmp., fg-cg, w/fg GRAVEL							29-68-125
	CL		GRAVELLY SANDY CLAY (CL), gr., low pl., dmp., fg-cg							21-24-38
682.2										24-32-48
										11-16-28
										25-44-52
				23.8			-	3	97	9-12-28
	CL		CLAY (CL), gr., low pl., dmp., w/fg SAND							18-31-48
					30	18				8-22-31
669.7										16-27-33
										35-44-64
										15-18-27

* ROCK STRUCTURAL ELEMENTS — SHEET 1 OF 2 SHEETS

PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-203

ELEVATION (FEET) MSL	SYMBOL	* RSE	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
669.7										
	CL		CLAY (CL), gr., low pl., dmp., w/fg SAND							
659.7			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS — SHEET 2 OF 2 SHEETS

CORE SIZE NA
BATTER VERTICAL
DIRECTION NA
DATE
STARTED 6/14/96
COMPLETED 6/14/96
PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-204
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 713483.4
E 1858102.5

ELEVATION (FEET) MSL	SYMBOL	* RSE	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
725.5										
724.0	NS		DRILLING WITHOUT SAMPLING							-
			GRAVELLY CLAYEY SAND (SC), lt br., low pl., dry, fg-cg	6.0						19
										28-49
	SC		gr br., m pl @ 2' - 4.5'	12.5						11
										16-25
			r br., m hi pl., w/brick frags @ 4.5' - 7.5'							13-19
718.0				23.8	43	22				18
										22-32
	CL		SANDY CLAY (CL), r br., m pl., dry, fg-cg, w/brick frags	20.5			13	35	52	23
715.0										23-26
										14
	CL		GRAVELLY SANDY CLAY (CL), r br., m hi pl., dry, fg-cg, w/brick frags	24.8	44	22				16-22
710.8			br., m pl @ 13.5' - 14.7'	24.7						
	CL		SANDY CLAY (CL), dk gr., m hi pl., dmp., fg-cg, w/organics	22.2	40	19				
707.6			br., m pl @ 16.5' - 17.9'	28.0						
	GC		CLAYEY SANDY GRAVEL (GC), r br., low pl., dry, fg-cg, w/brick frags	20.3						
706.0				23.9						
	CL		SANDY CLAY (CL), dk br., m pl., dry, fg-cg	21.6						
703.0				24.8	43	21	21	31	48	
702.5	CL		GRAVELLY CLAYEY SAND (SC), r br., m hi pl., dry, c to f g. w/ brick frags	24.0						
701.2	CL		SANDY CLAY (CL), dk br., m pl., mst., fg-cg	25.5						
	SC		CLAYEY SAND (SC), br., low pl., wet, fg-cg w/cr she	24.4						
700.0			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS — SHEET 1 OF 1 SHEETS

CORE SIZE NA
BATTER VERTICAL
DIRECTION NA
DATE
STARTED 6/13/96
COMPLETED 6/13/96
PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-205
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 712772.3
E 1857372.5

ELEVATION (FEET) MSL	SYMBOL	* RSE	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
723.9										
723.4	CL		SANDY CLAY (CL), br., m pl., fg-cg, w/org	23.4						2-11-5
										5-7-8
	CL		GRAVELLY SANDY CLAY (CL), br., m pl., dry, fg-cg	17.2						8-11-15
718.2				19.8	40	21				5-9-19
	SC		CLAYEY GRAVELLY SAND (SC), br., low pl., dry, fg-cg	32.9			34	53	13	17-12-10
715.6										61-17
	GC		SANDY CLAYEY GRAVEL (GC), r br., low pl., dmp., fg-cg., w/brick frags	24.4						12-21-16
			dk gr., m pl @ 10.5' - 13.5'							5-7-2
710.4				29.4			34	31	35	2-6-8
	SM		GRAVELLY SILTY SAND (SM), dk gr., nonpl., dmp., fg-cg., w/org	44.0	NP	NP				3-7-4
708.0										2-2-3
706.8	SC		GRAVELLY CLAYEY SAND (SC), br gr., m pl., dmp., fg-cg., w/org	48.9						2-3-3
705.3	SC		CLAYEY SAND (SC), dk gr and bk., m pl., fg-cg., w/coal	46.1			13	54	33	6-9-13
	CH		SANDY CLAY (CH), dk gr., hi pl., dmp., fg-cg	27.5	54	25				4-8-9
702.9										
701.4	CL		SANDY CLAY (CL), br gr., m pl., dmp., fg-mg	26.7						8-11-12
			BOTTOM OF HOLE							

* ROCK STRUCTURAL ELEMENTS — SHEET 1 OF 1 SHEETS

CORE SIZE NA
BATTER VERTICAL
DIRECTION NA
DATE
STARTED 6/13/96
COMPLETED 6/13/96
PROJECT WEST COLUMBUS LPP
HOLE NO. D-96-206
SAMPLER 2" SPLITSPOON
DROP 30"
HAMMER 140#
COORDINATES
N 712650.0
E 1857197.0

ELEVATION (FEET) MSL	SYMBOL	* RSE	DESCRIPTION OF MATERIALS	WC	LL	PL	% +4	% SAND	% -200	BLOWS
722.3										
722.0	CL		SANDY CLAY (CL), gr., m pl., fg-cg	23.7						6-6-8
	SC		GRAVELLY CLAYEY SAND (SC), gr., low pl., dry, fg-cg	13.9						9-10-9
716.3			m pl @ 3' - 6'	12.4	33	17				10-8-9
	SM		SILTY GRAVELLY SAND (SM), lt br - r br., nonpl., dry, fg-cg., w/brick frags	12.2			28	49	23	9-8-2
713.3										?
	SM		GRAVELLY SILTY SAND (SM), gr br - r br., nonpl., dry, fg-cg., w/brick frags	11.7						11-21-18
710.3										10-11-17
710.0	SP-SM		GRAVELLY SAND (SP-SM), br., nonpl., dry, fg-cg	4.8						10-12-22
707.2	CL		GRAVELLY SANDY CLAY (CL), gr., m hi pl., dry, fg-cg	22.4	47	22				31-28-34
706.6	ML		SANDY SILT (ML), lt br., nonpl., dmp., fg-cg	14.2						6-11-10
704.3	SM		GRAVELLY SILTY SAND (SM), bk., nonpl., fg-cg	21.8			19	61	20	17-38-43
703.9	SM		SILTY GRAVELLY SAND (SM), br - bk., nonpl., fg-cg	16.6						21-12-26
702.0	CH		SANDY CLAY (CH), br., hi pl., dry, fg-cg	23.7	54	24				13-14-16
	CL		SANDY CLAY (CL), br., m pl., dry, fg-mg., w/cr she	20.1			0	47	53	6-6-7
699.8			BOTTOM OF HOLE							6-7-7

* ROCK STRUCTURAL ELEMENTS — SHEET 1 OF 1 SHEETS

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: G. HENSLEY
Drawn by: L. MERS
Checked by: L. RIGGS
Reviewed by.
Approved by:

USA US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GRAPHIC LOGS OF BORINGS

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Drawing Code: O16-PWC-10
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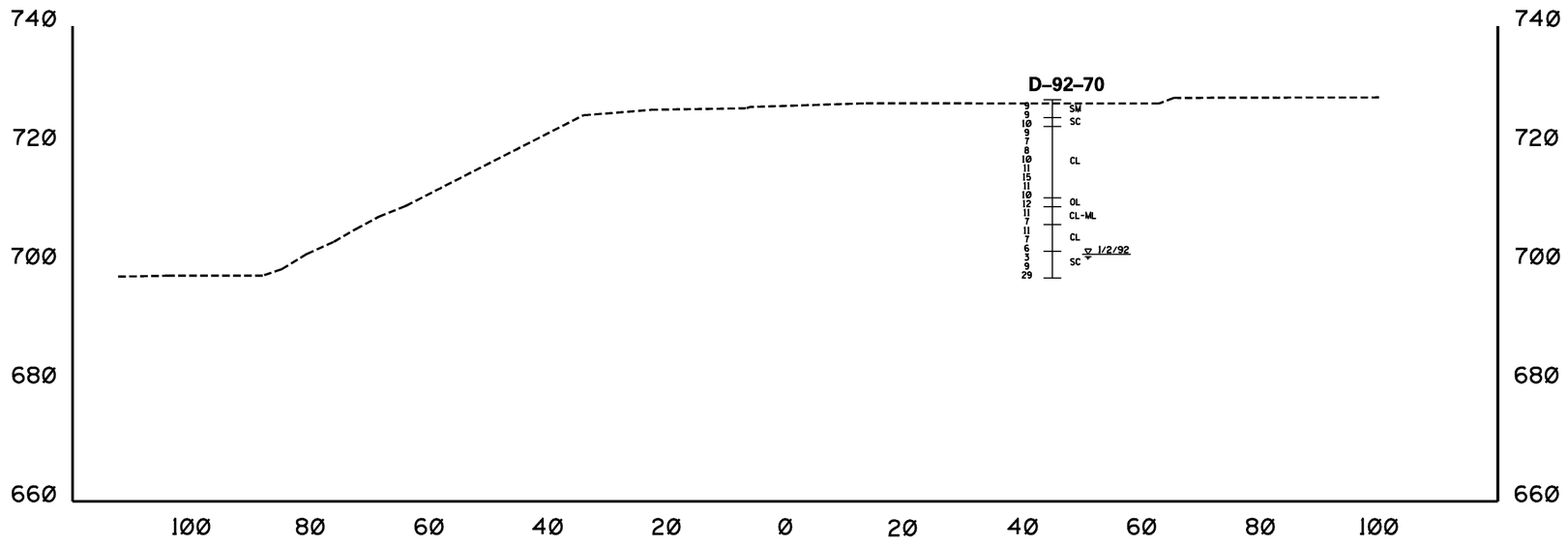

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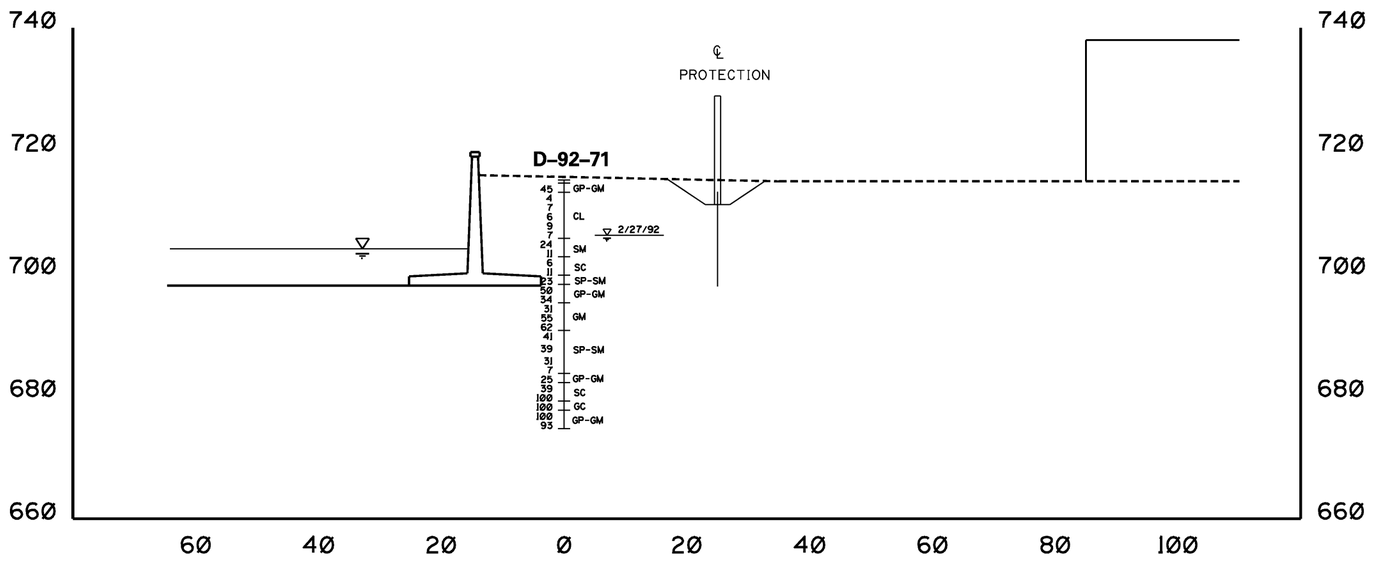
STATION 155+00



GEOLOGIC SECTION B–B'
STATION 159+00

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: GAH
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Checked by: GAH
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Approved by:

US Army Corps of Engineers

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WEST COLUMBUS, L.P.P.
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GEOLOGIC SECTIONS

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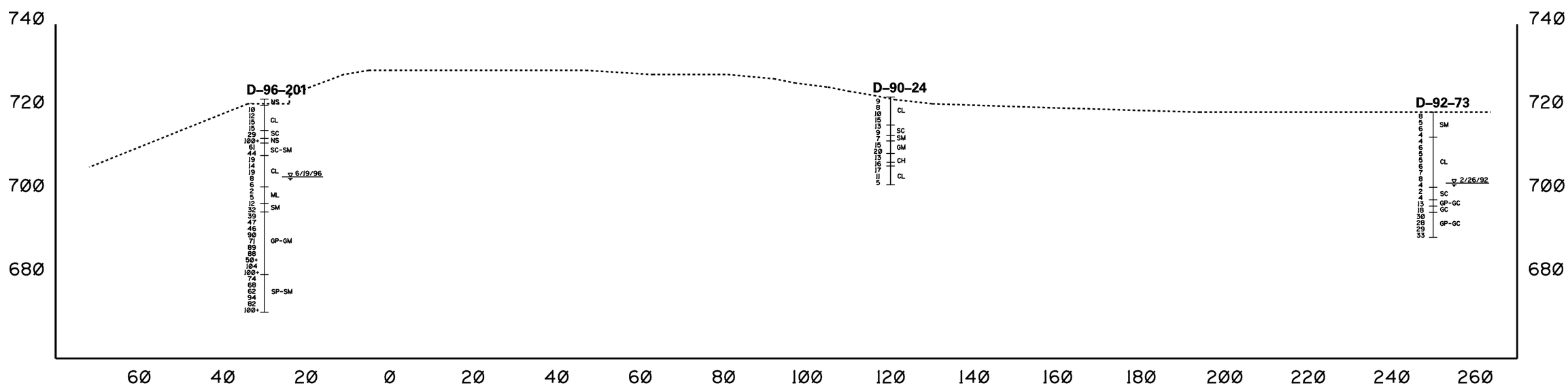

GEOLOGIC SECTION C–C
STATION 171+00

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: GAH
Drawn by: JER
Checked by: GAH
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GEOLOGIC SECTIONS

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Date: MARCH 1997
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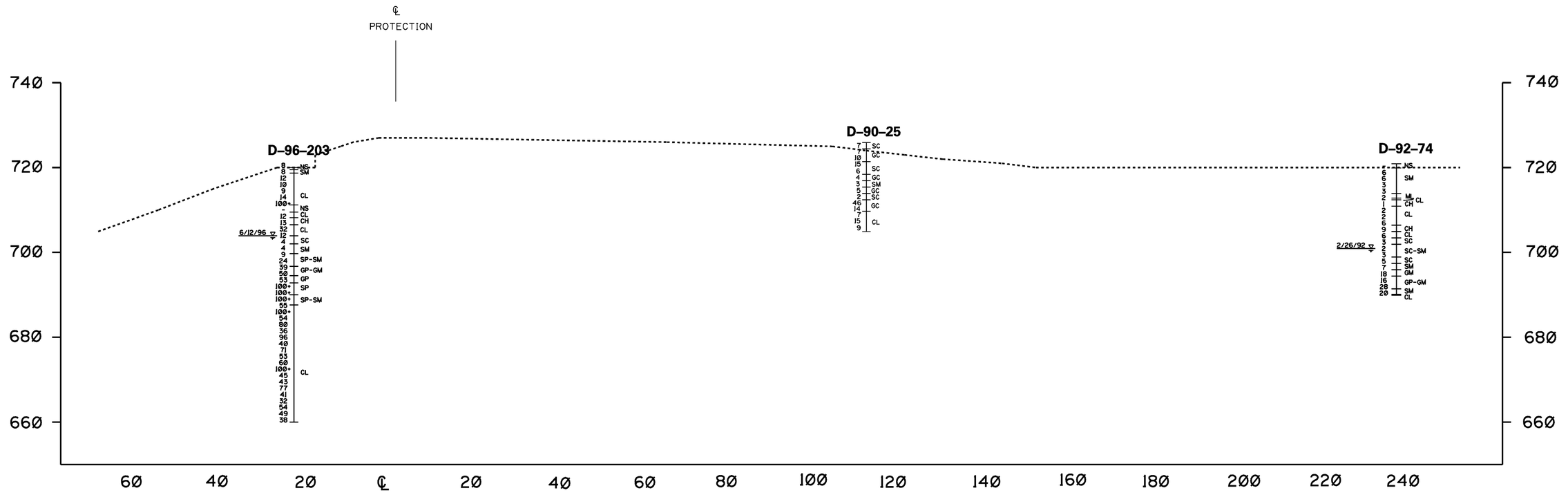
Sheet 2 of 4



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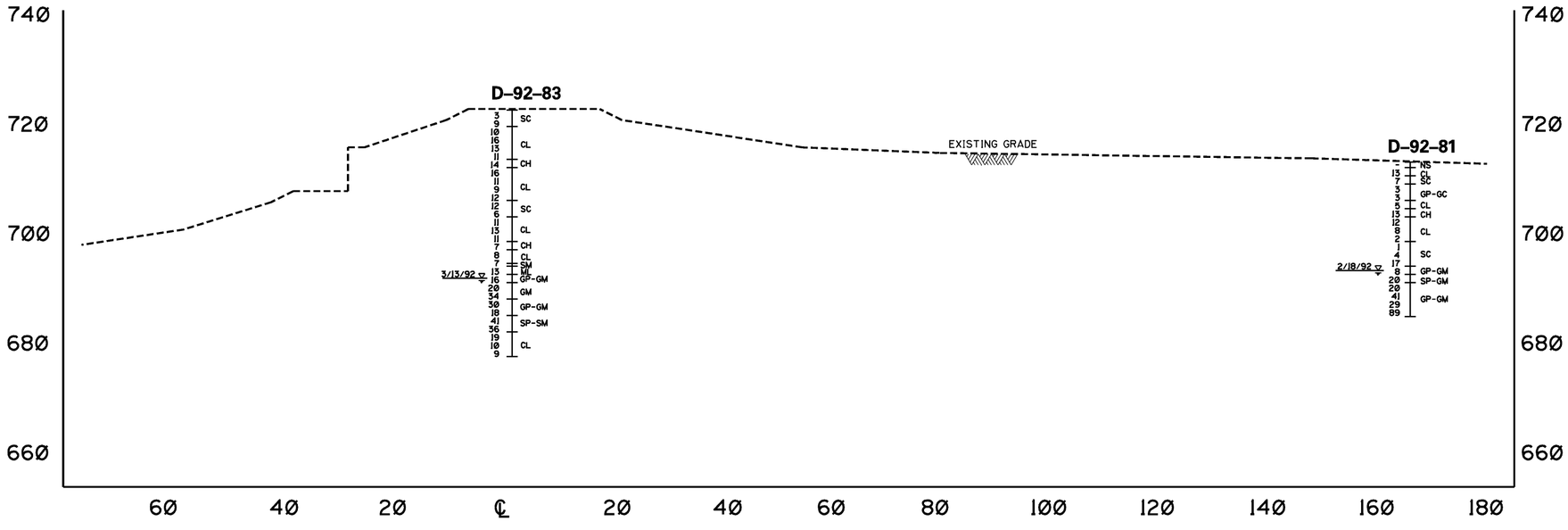
STATION 181+00



GEOLOGIC SECTION E–E′
STATION 199+00

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: GAH
Drawn by: JER
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Reviewed by:
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US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
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GEOLOGIC SECTIONS

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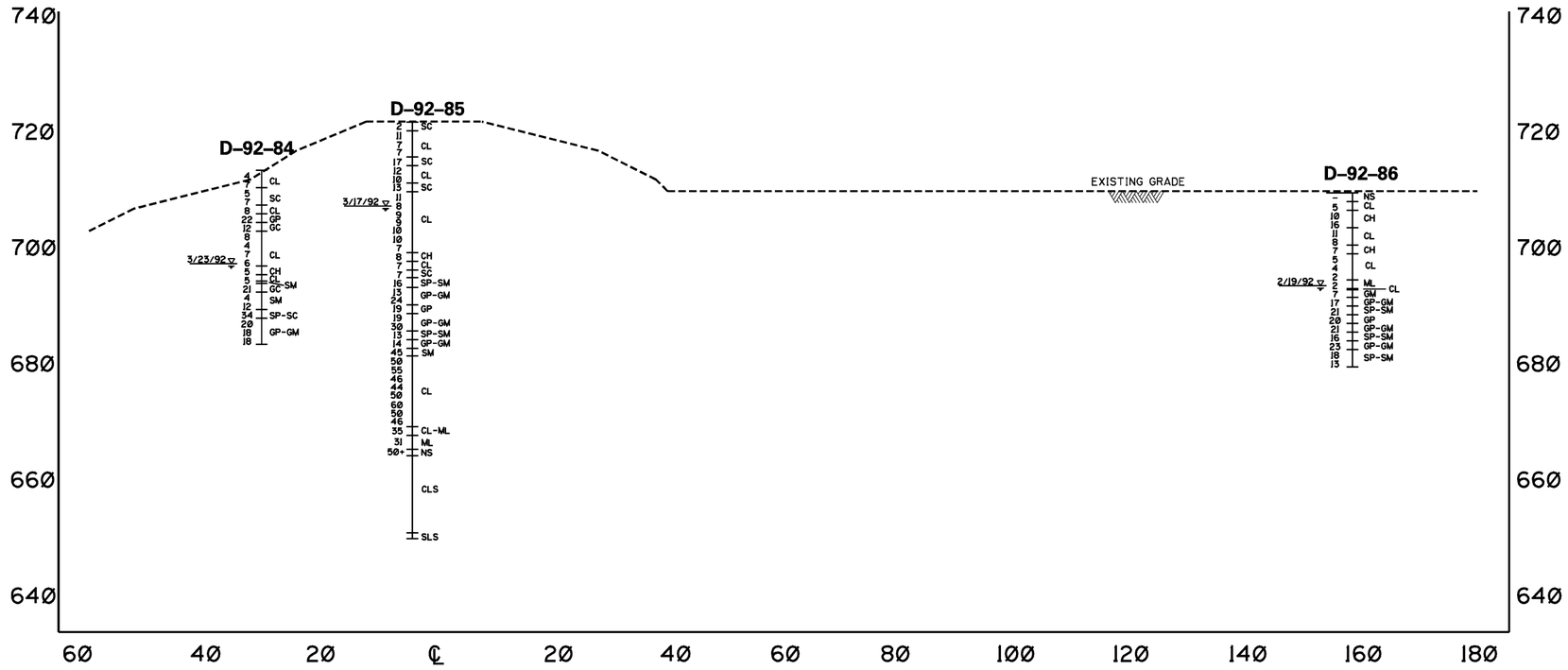
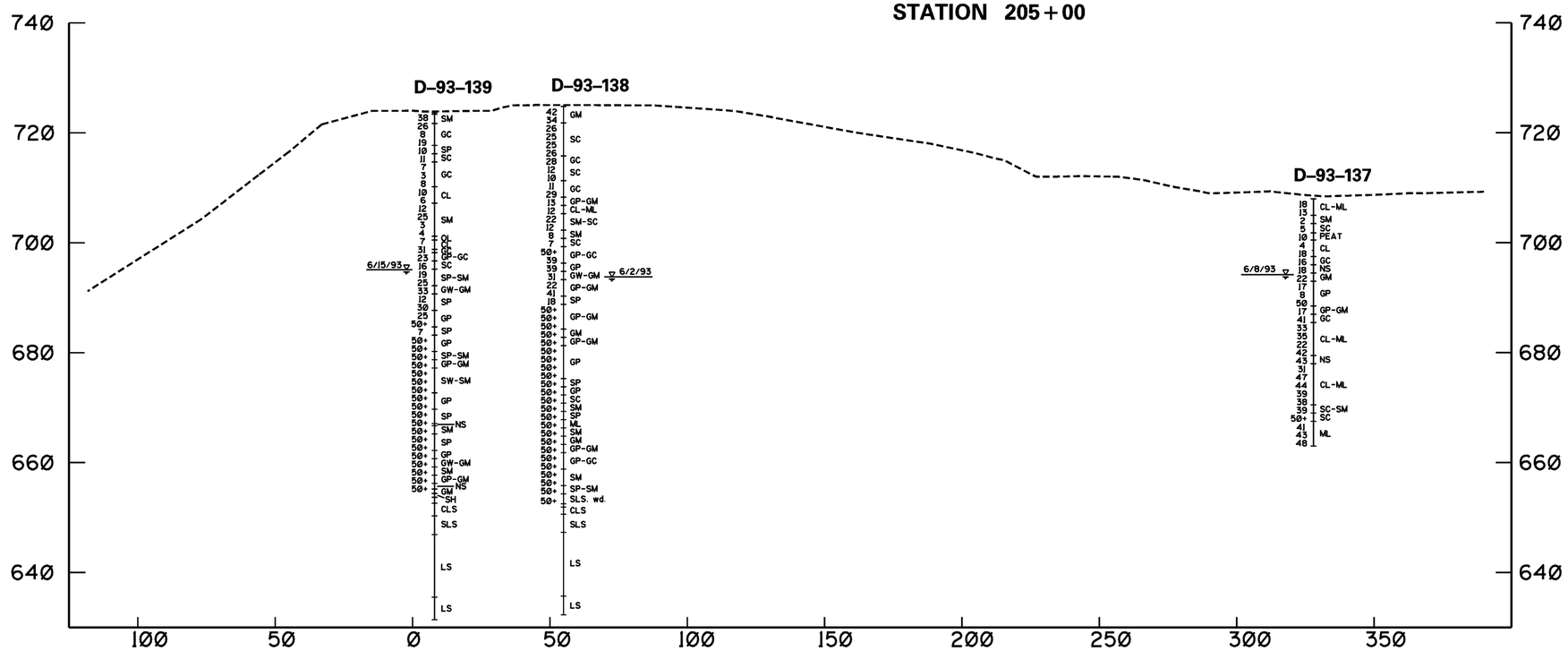
Drawing Code: O16–PWC–10
Sheet reference number: 10/14
FILENAME: sections.dgn
Sheet 3 of 4



GEOLOGIC SECTION F–F′
STATION 205+00



GEOLOGIC SECTION G–G′
STATION 215+00

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: GAH
Drawn by: JER
Checked by: GAH
Reviewed by:
Approved by:

US Army Corps of Engineers

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COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GEOLOGIC SECTIONS

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Drawing Code: 016–PWC–10
Sheet reference number: 10/15
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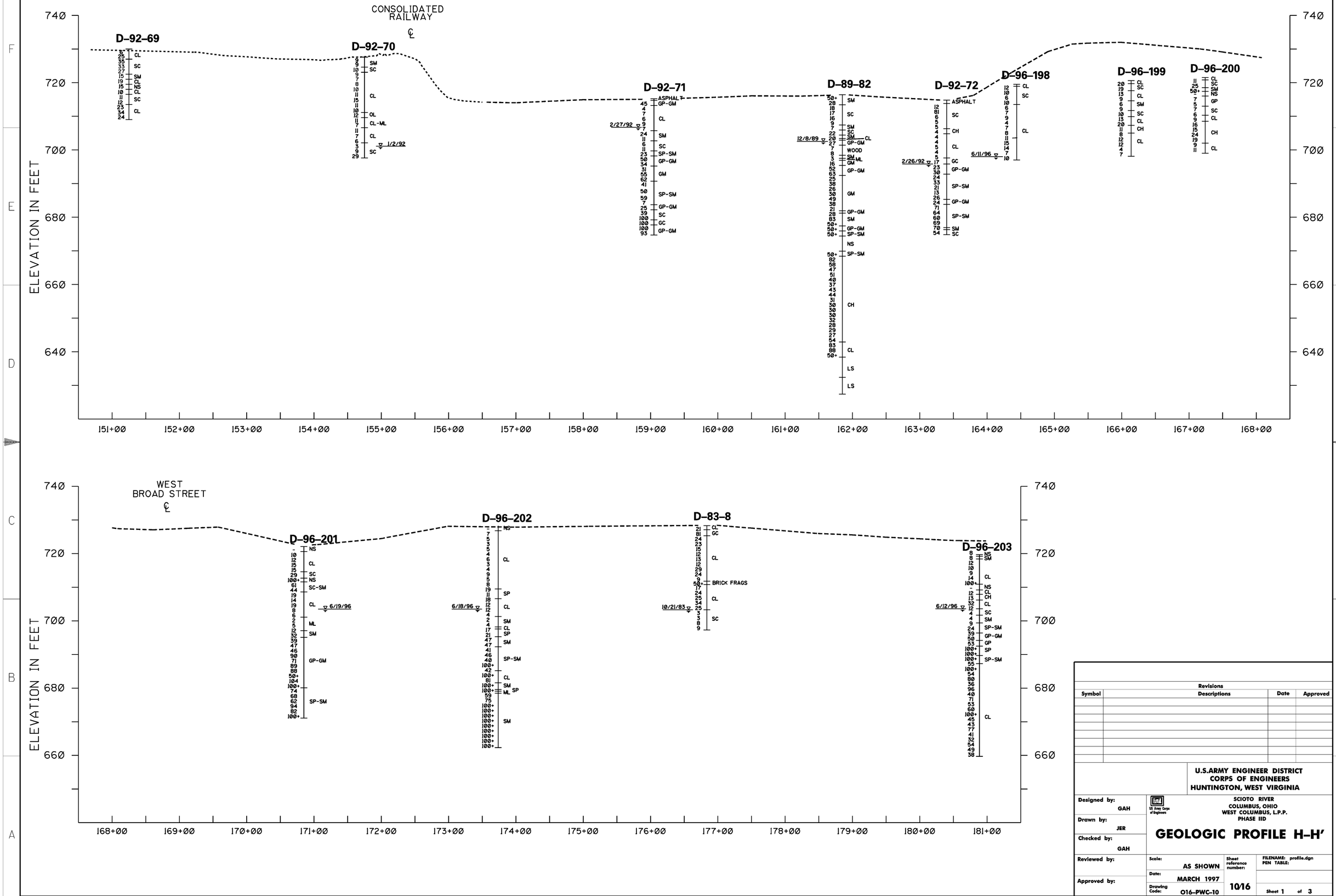
Sheet 4 of 4



Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: GAH
Drawn by: JER
Checked by: GAH
Reviewed by:
Approved by:

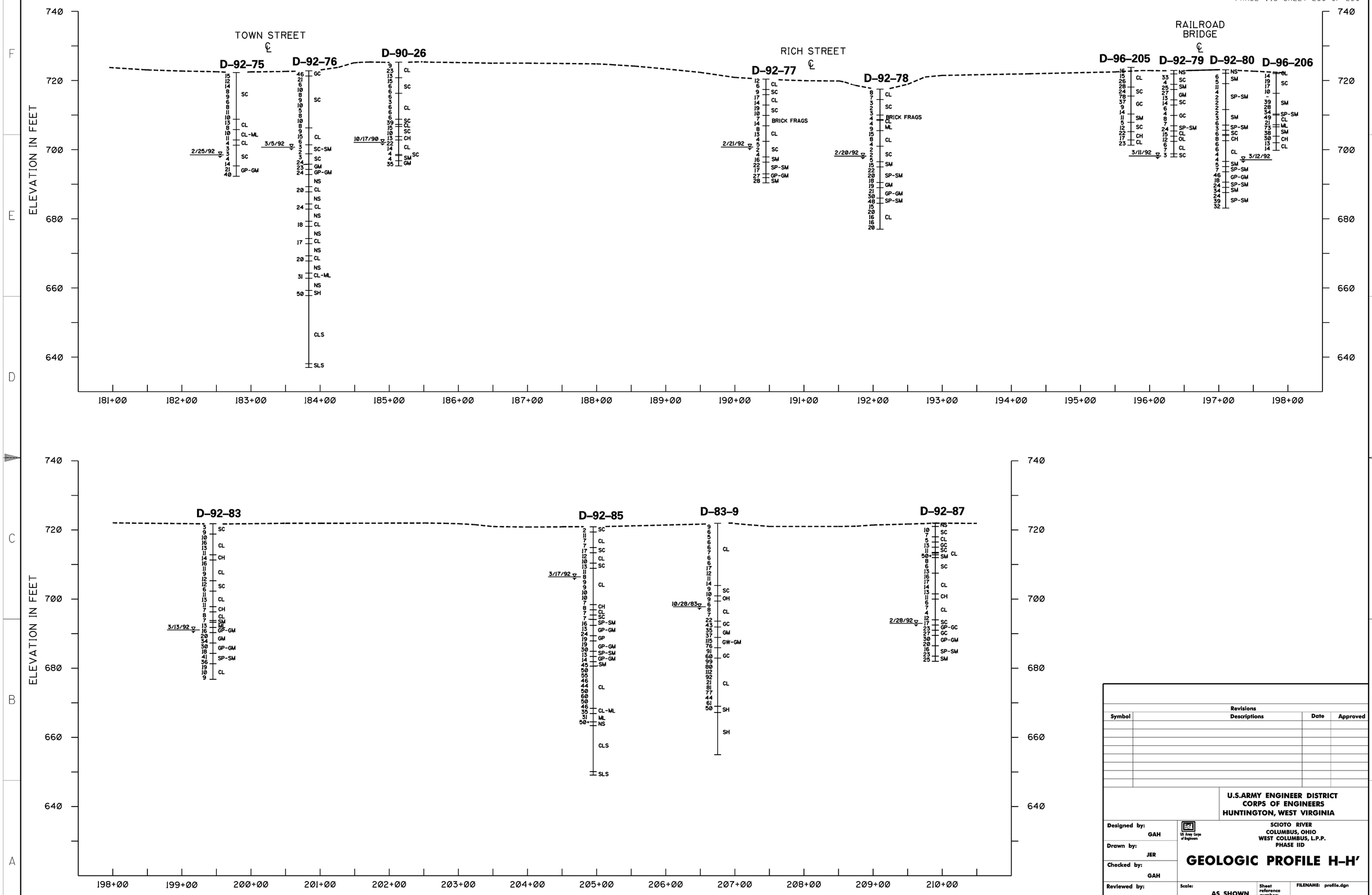
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GEOLOGIC PROFILE H–H'

Scale: AS SHOWN
Date: MARCH 1997
Drawing Code: O16–PWC–10
Sheet reference number: 10/16
FILENAME: profile.dgn
PEN TABLE:
Sheet 1 of 3

PHASE IID SHEET 239 OF 256



Revisions			
Symbol	Descriptions	Date	Approved

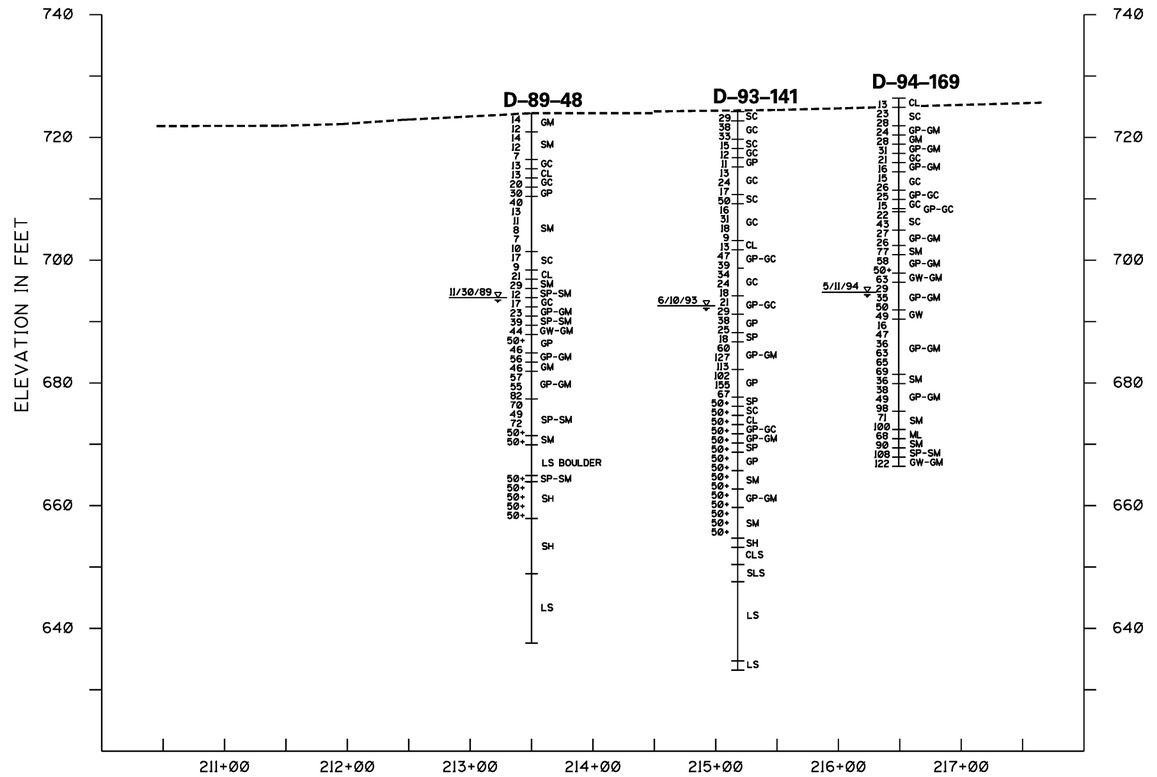
U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GEOLOGIC PROFILE H-H'

Designed by: GAH	Scale: AS SHOWN	Sheet reference number: 10/17	FILENAME: profile.dgn
Drawn by: JER	Date: MARCH 1997		
Checked by: GAH	Drawing Code: 016-PWC-10		Sheet 2 of 3
Reviewed by:			
Approved by:			



Revisions			
Symbol	Descriptions	Date	Approved

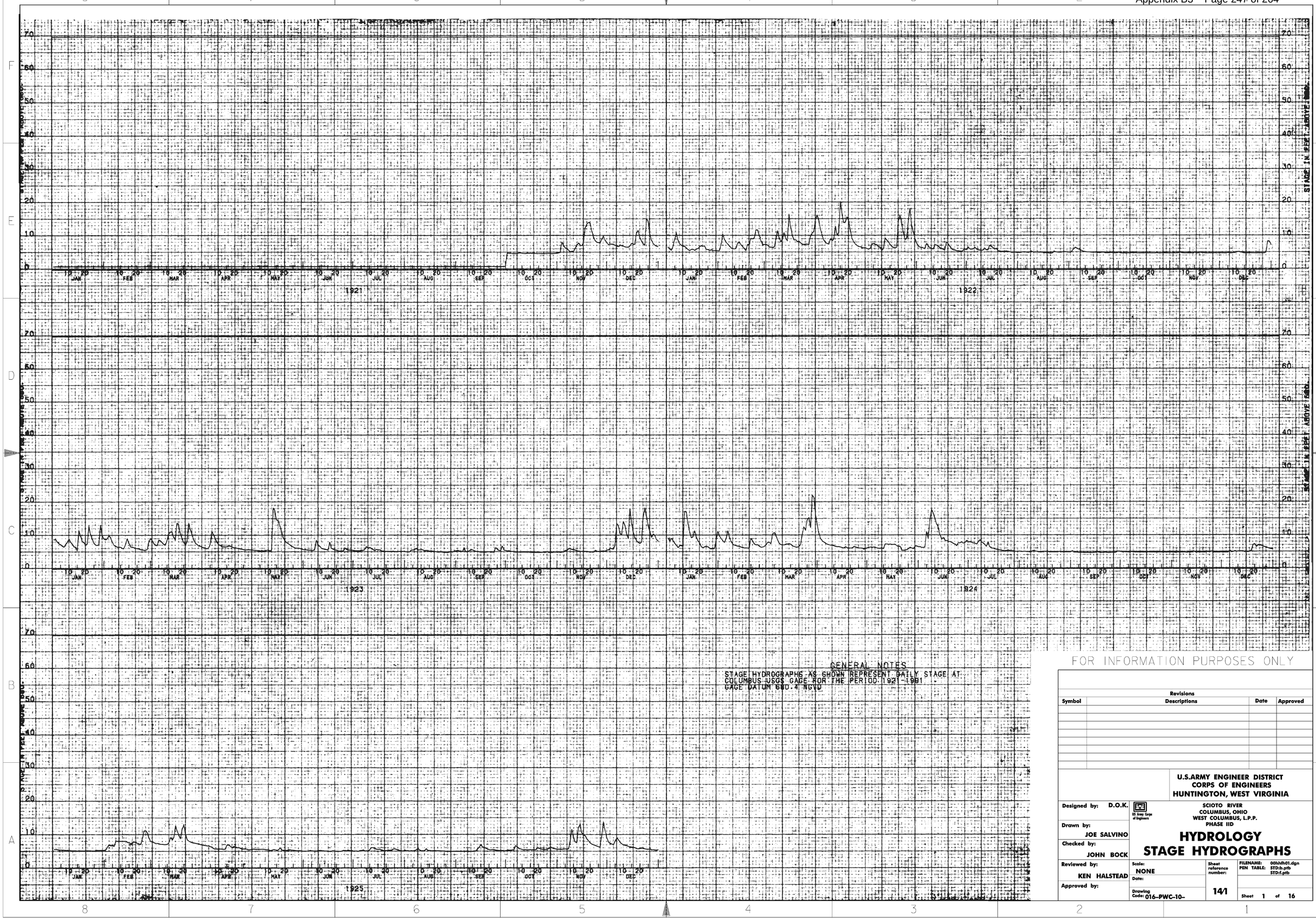
U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

GEOLOGIC PROFILE H–H'

Designed by: GAH	Scale: AS SHOWN	Sheet reference number: 10/18	FILENAME: profile.dgn
Drawn by: JER	Date: MARCH 1996		
Checked by: GAH	Drawing Code: 016–PWC–10		Sheet 3 of 3
Reviewed by:			
Approved by:			



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991 .
GAGE DATUM 660.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

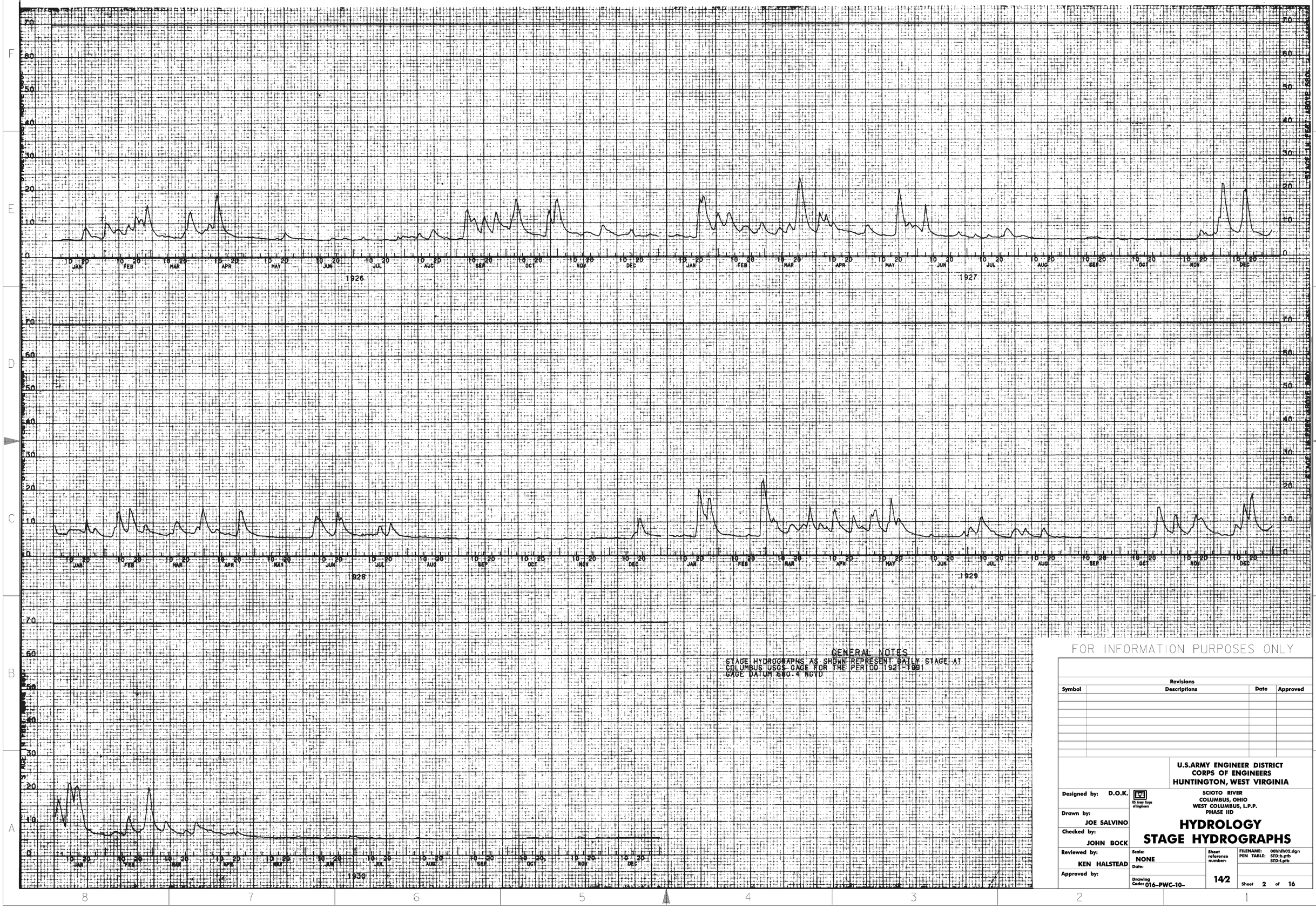
Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
Date:
Drawing Code: 016-PWC-10-
Sheet reference number: 141
FILENAME: 00hhfh01.dgn
PEN TABLE: STD:b.ptb STD:f.ptb
Sheet 1 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1921-1981
GAGE DATUM 580.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
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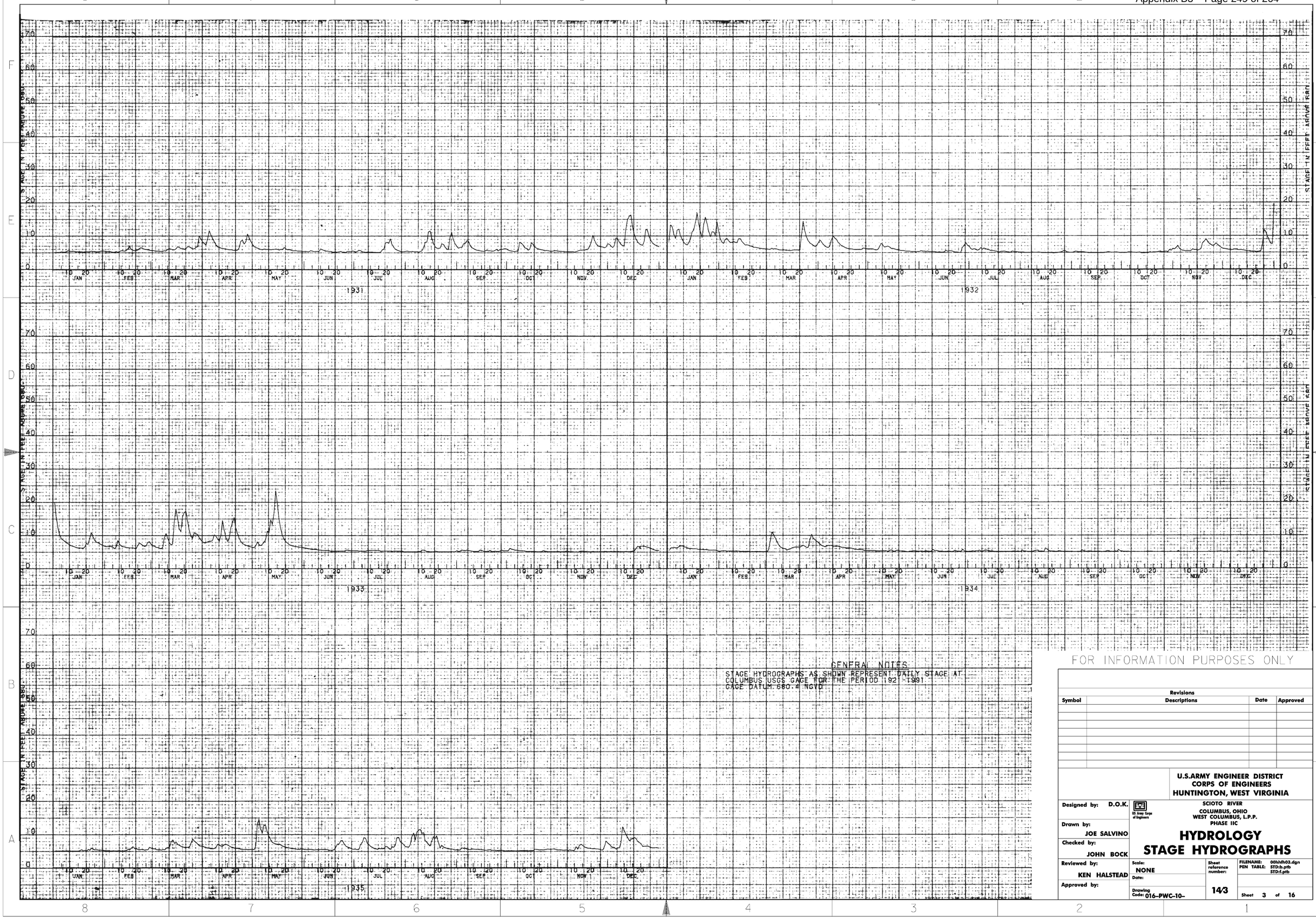
Sheet 2 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 192 -1991
GAGE DATUM: 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IIC

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
Date:
Drawing Code: 016-PWC-10-
Sheet reference number: 143
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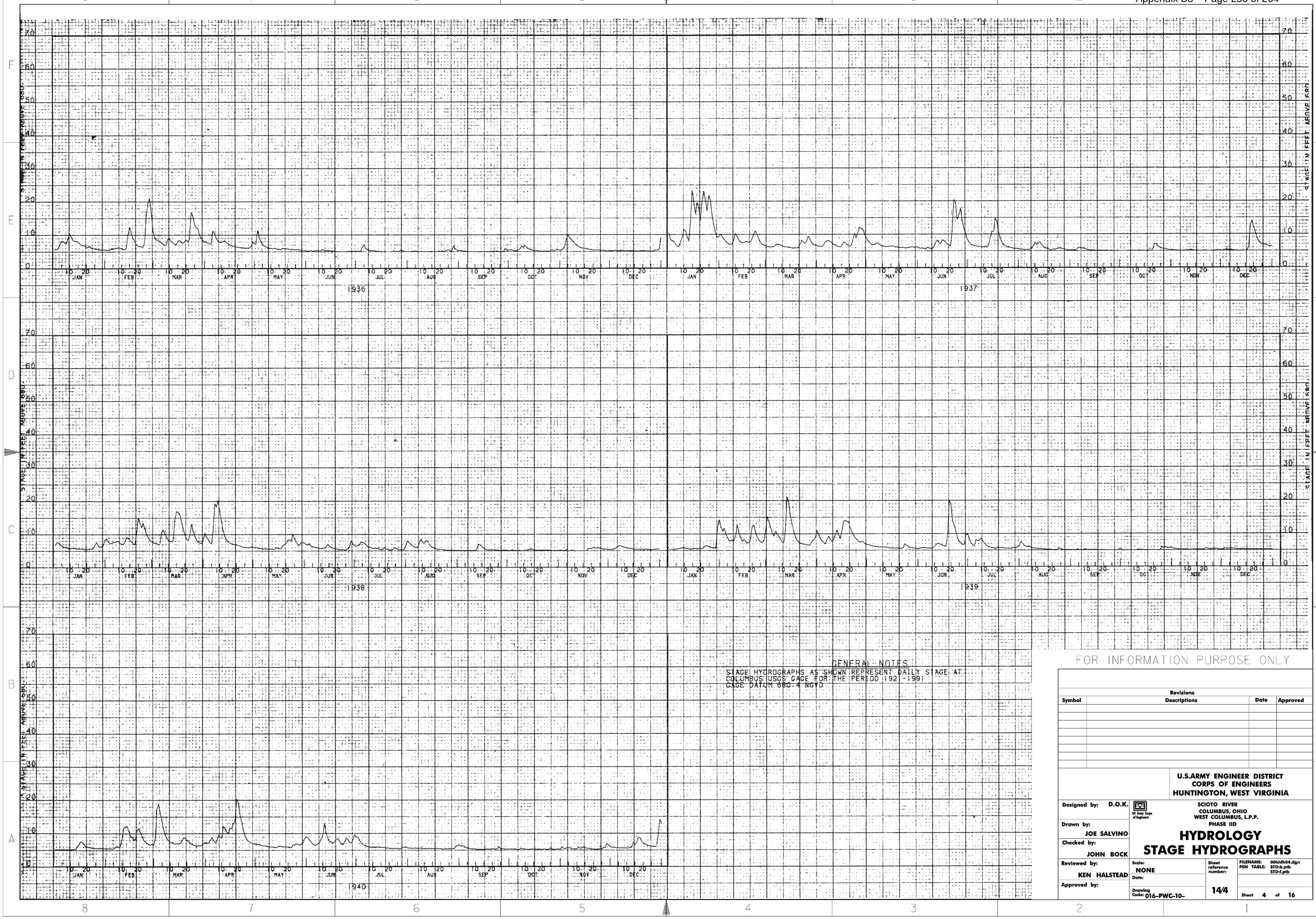
PEN TABLE: STD:b.prb STD:f.prb
Sheet 3 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991
GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSE ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
Date:
Drawing Code: 016-PWC-10-
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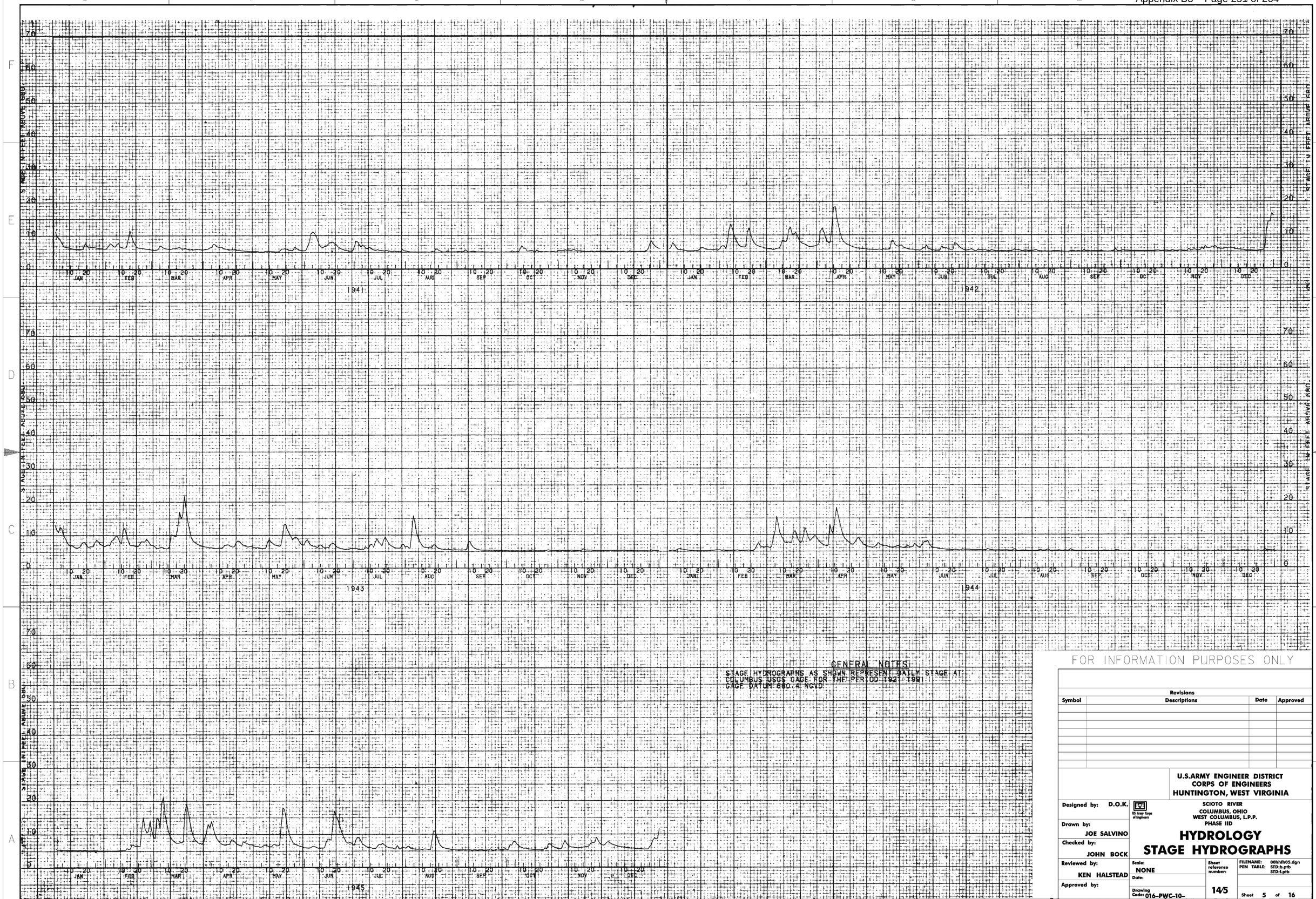
Sheet 4 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1921-1981
GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
Date:
Drawing Code: 016-PWC-10-
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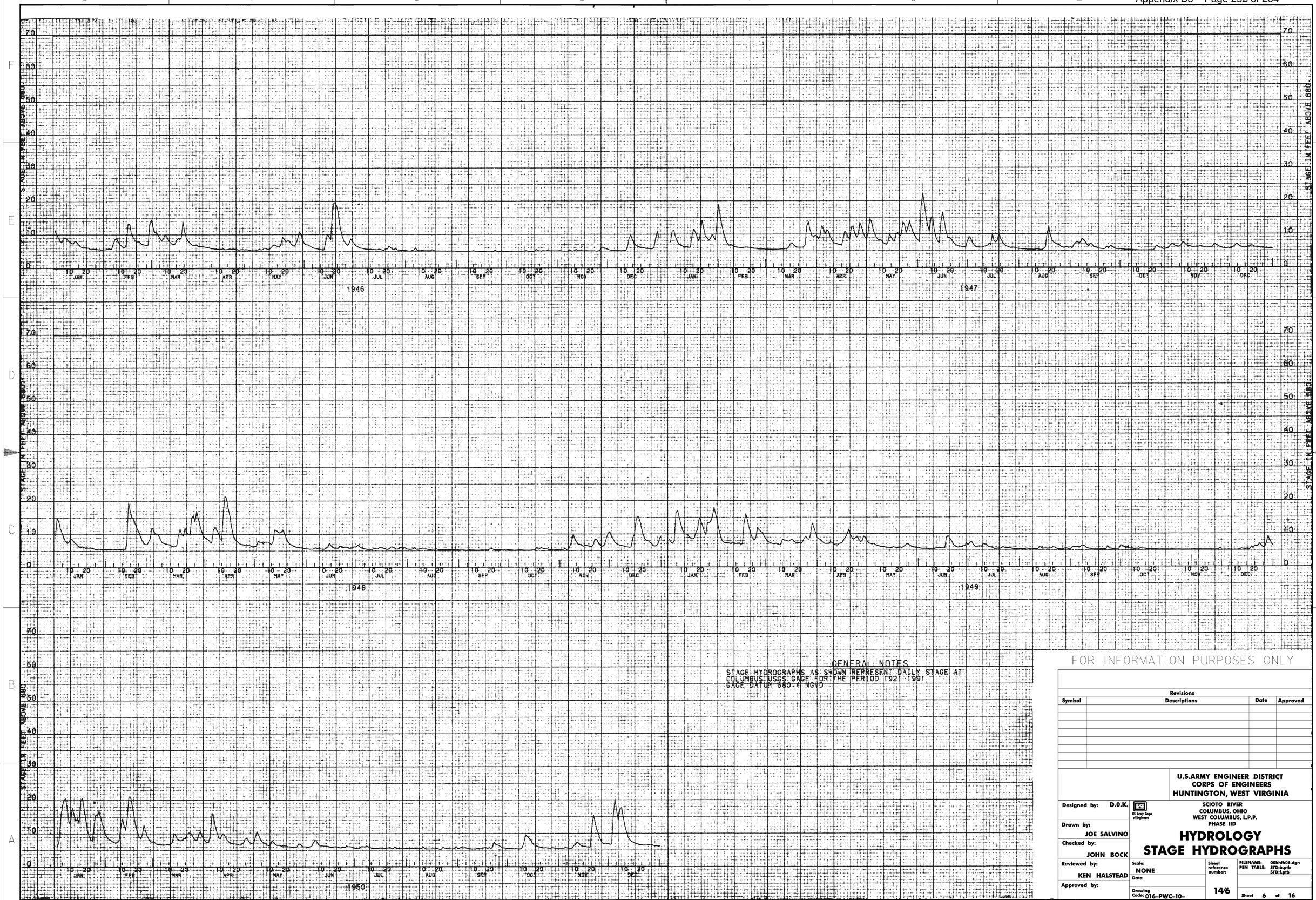
Sheet 5 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 192 1991
GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
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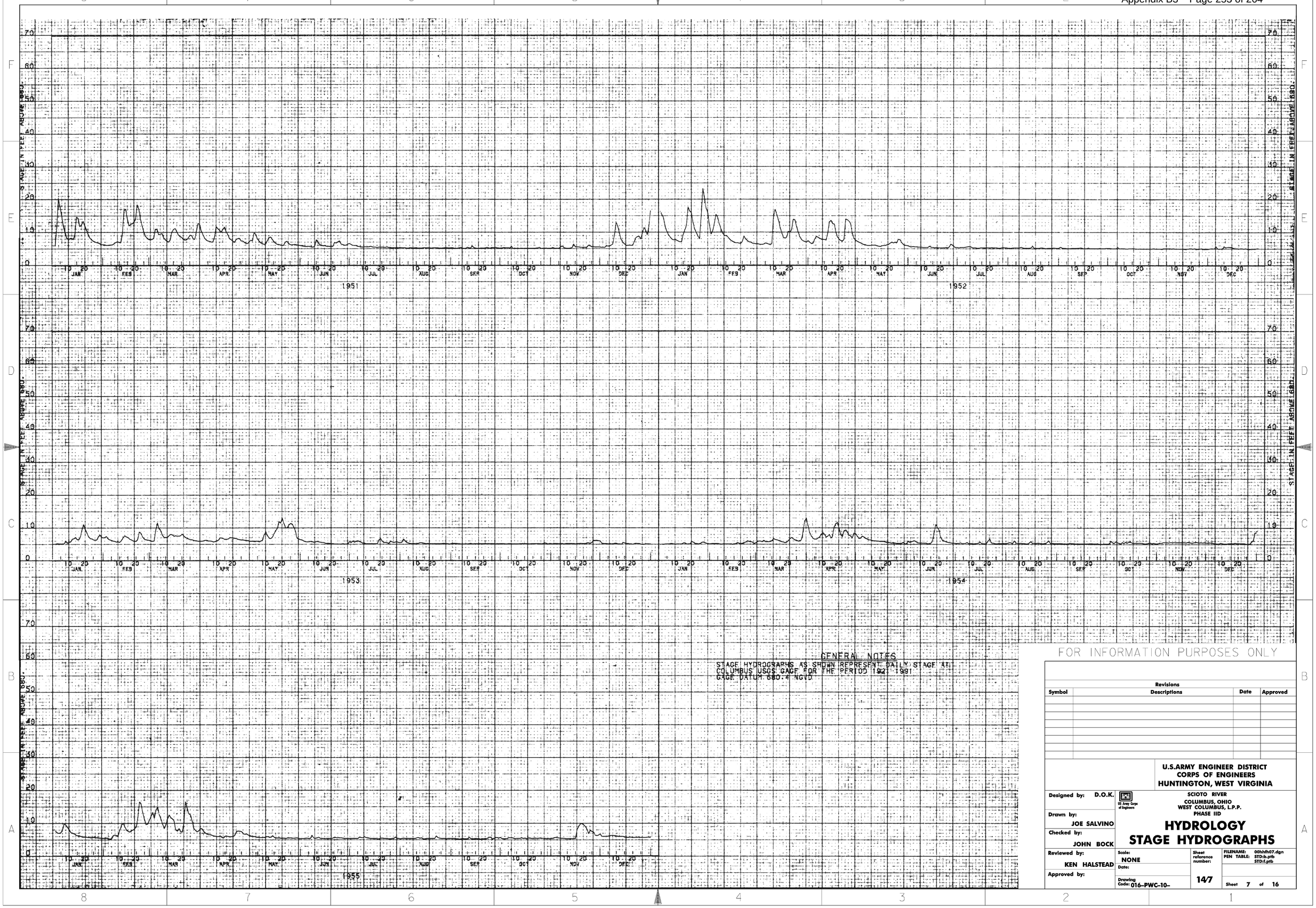
Sheet 6 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1951-1991
GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
Date:
Drawing Code: 016-PWC-10-
Sheet reference number: 147
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Sheet 7 of 16

GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991
GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
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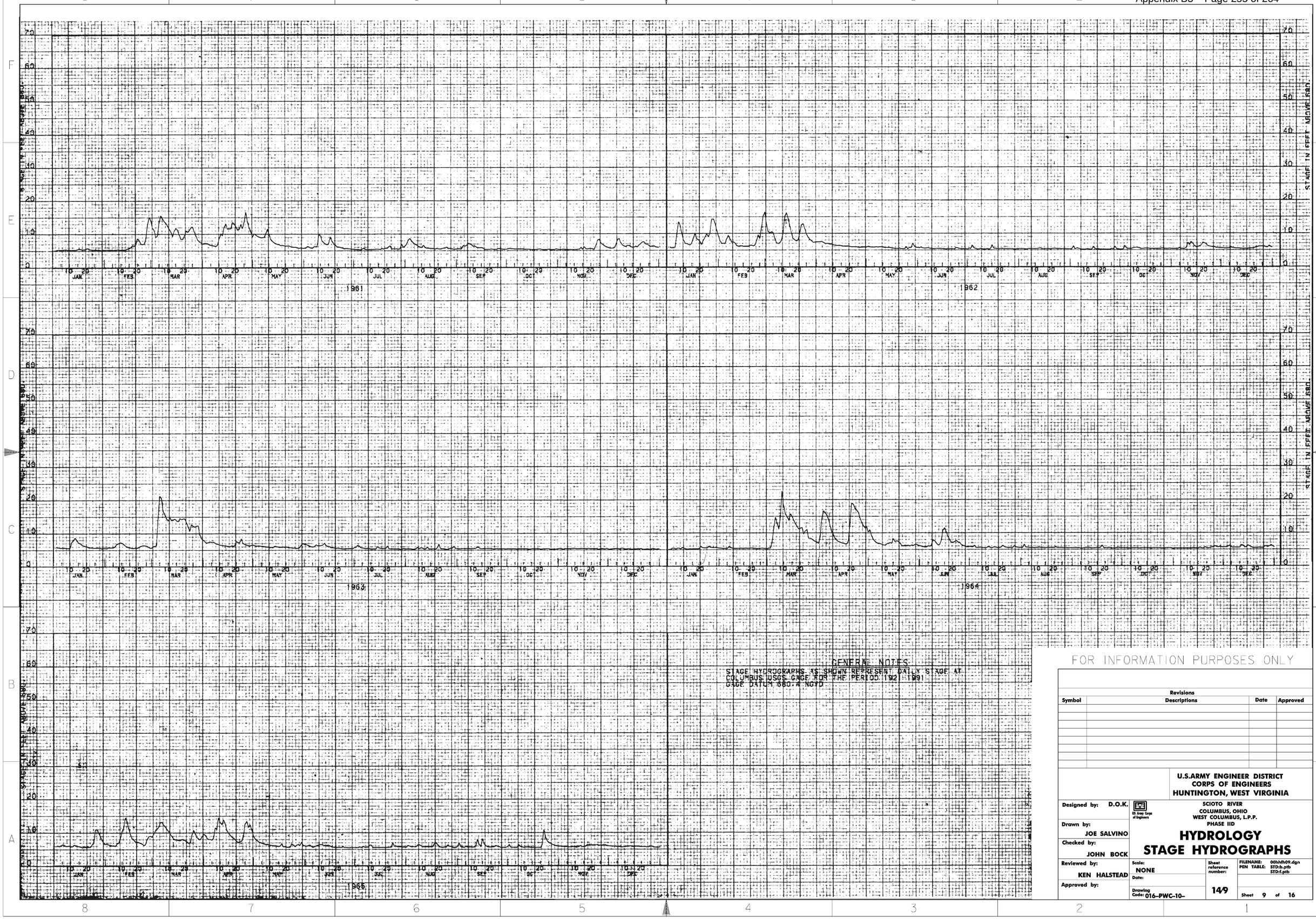
Sheet 8 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1942-1991
GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

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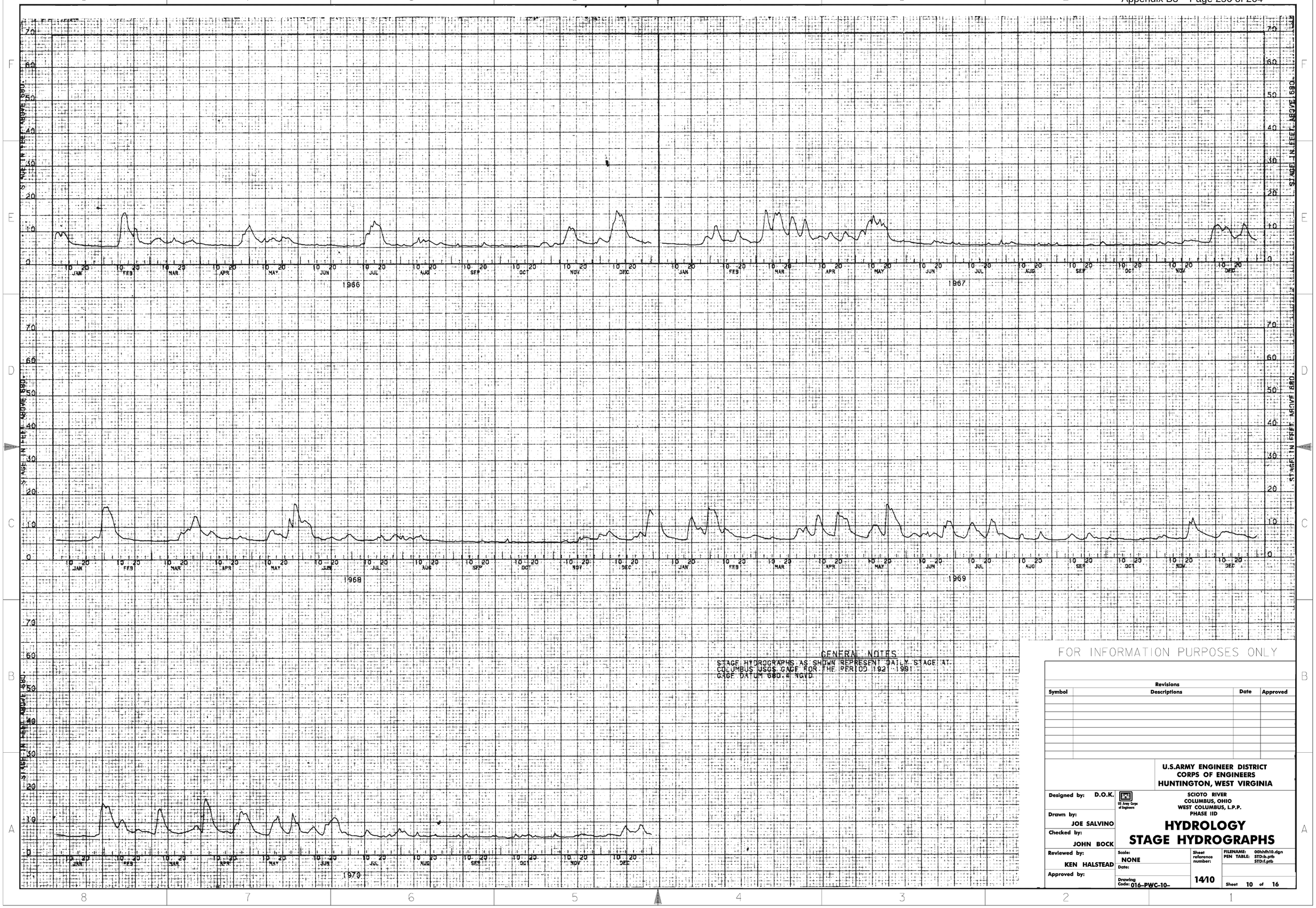
Drawn by: JOE SALVINO	Date:		PEN TABLE: STD:b.ptb STD:f.ptb
Checked by: JOHN BOCK			
Reviewed by: KEN HALSTEAD	Drawing Code: 016-PWC-10-		Sheet 9 of 16
Approved by:			



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1962 - 1991
GAGE DATUM 680.4 NGVD.

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
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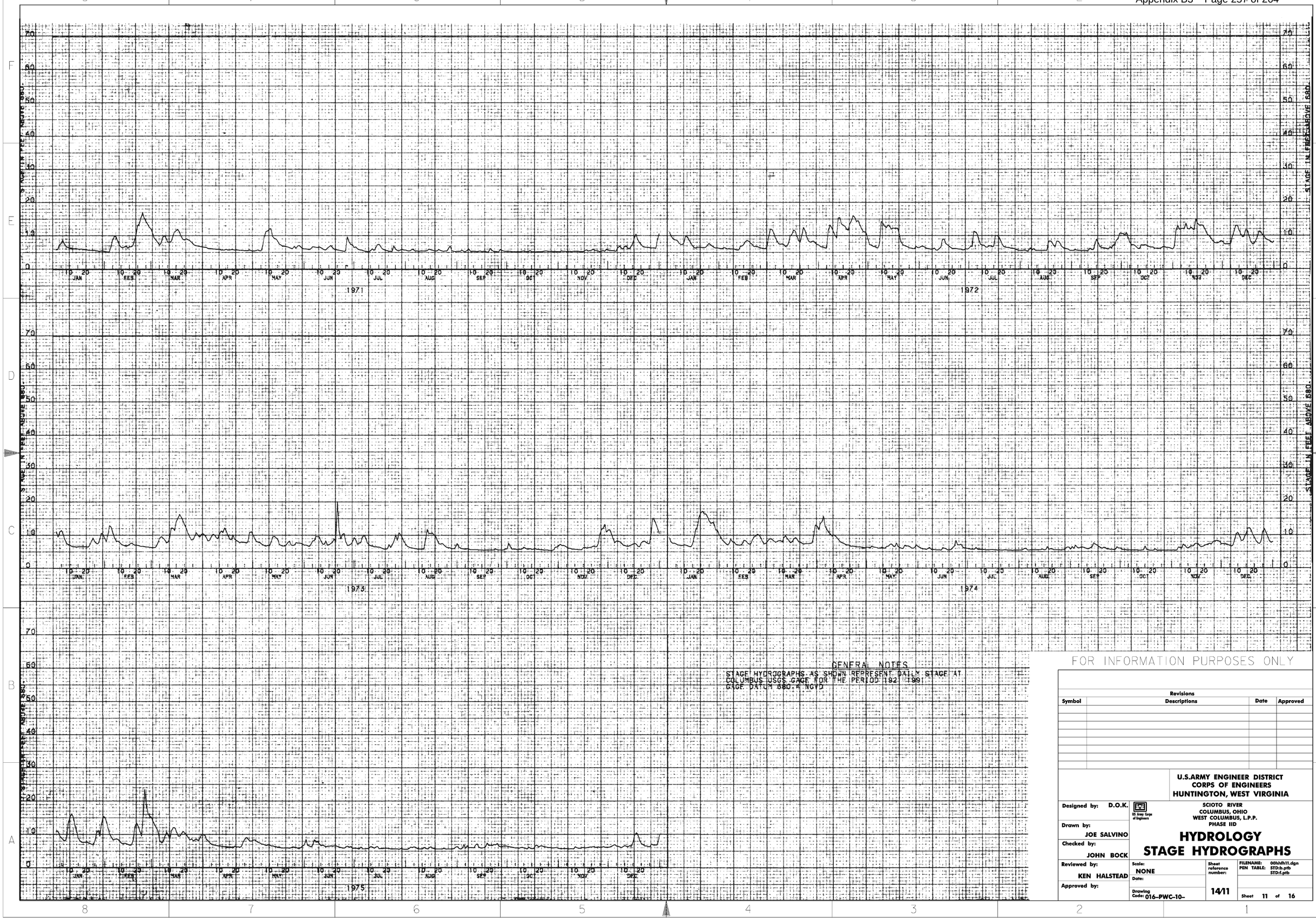
Sheet 10 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 192 -1991
GAGE DATUM 580.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
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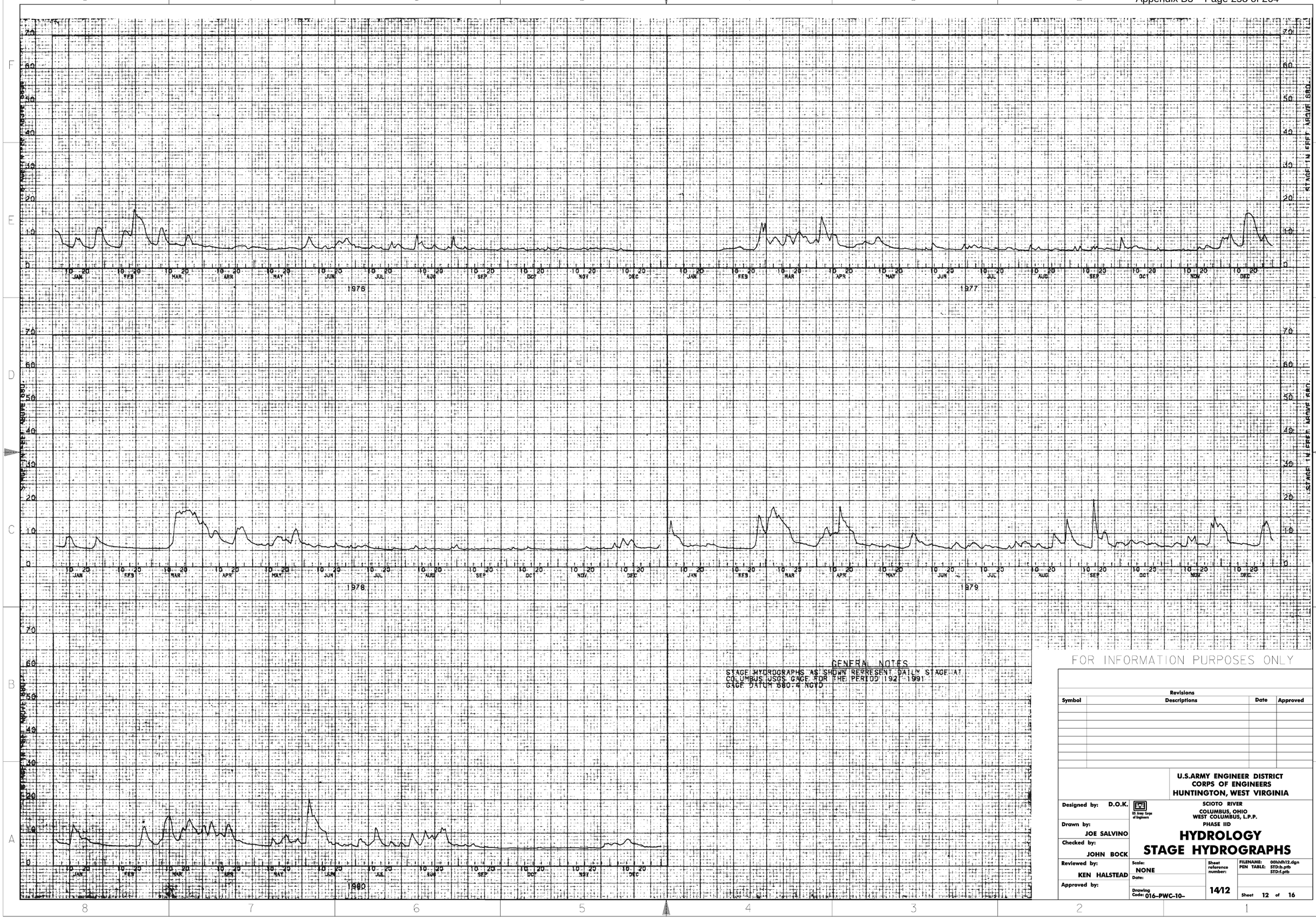
Sheet 11 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1972 - 1991
GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

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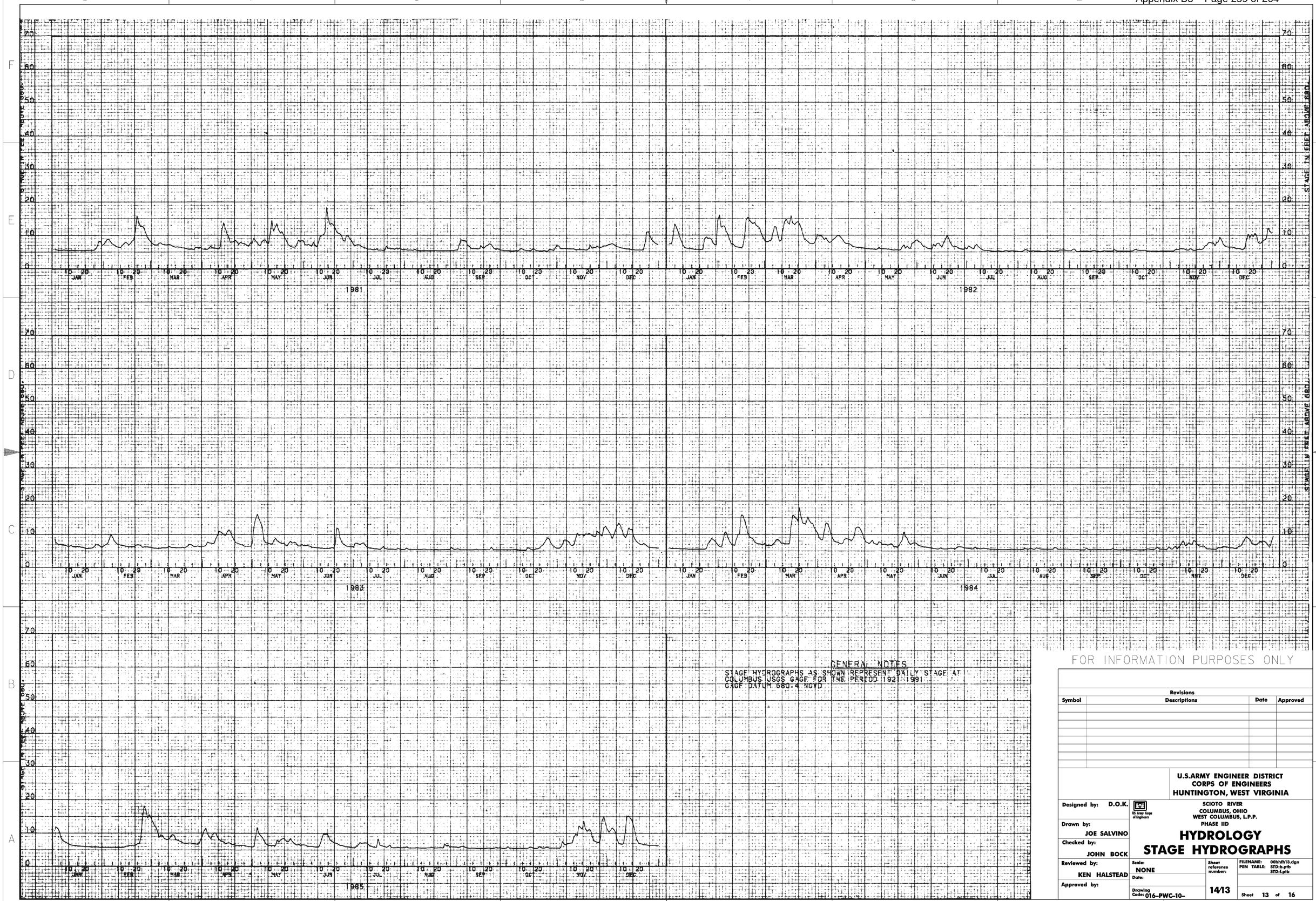
Sheet 12 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1921 - 1991
GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

Scale: NONE
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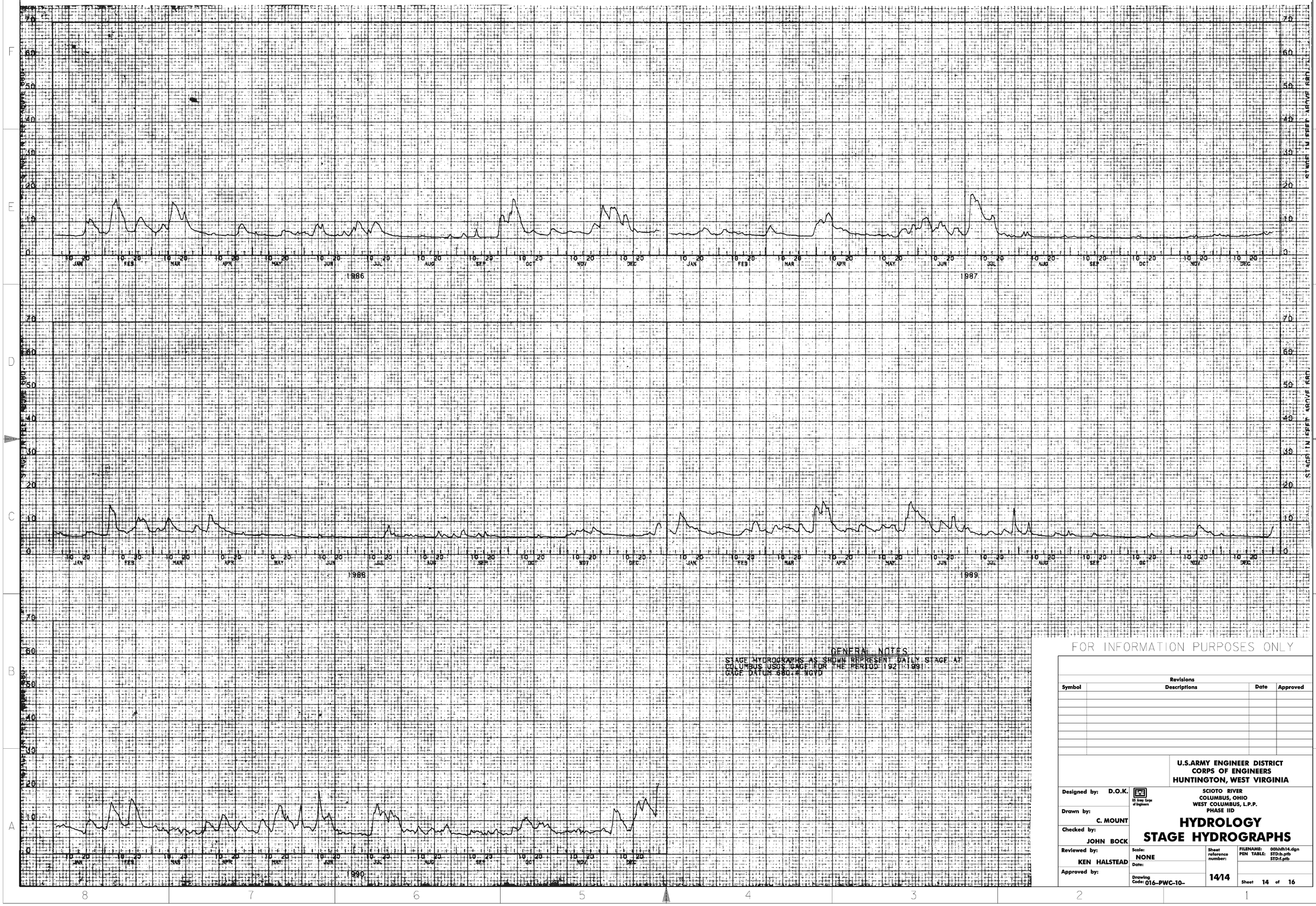
Sheet 13 of 16



GENERAL NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 192-1991
GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: D.O.K.
Drawn by: C. MOUNT
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY
STAGE HYDROGRAPHS

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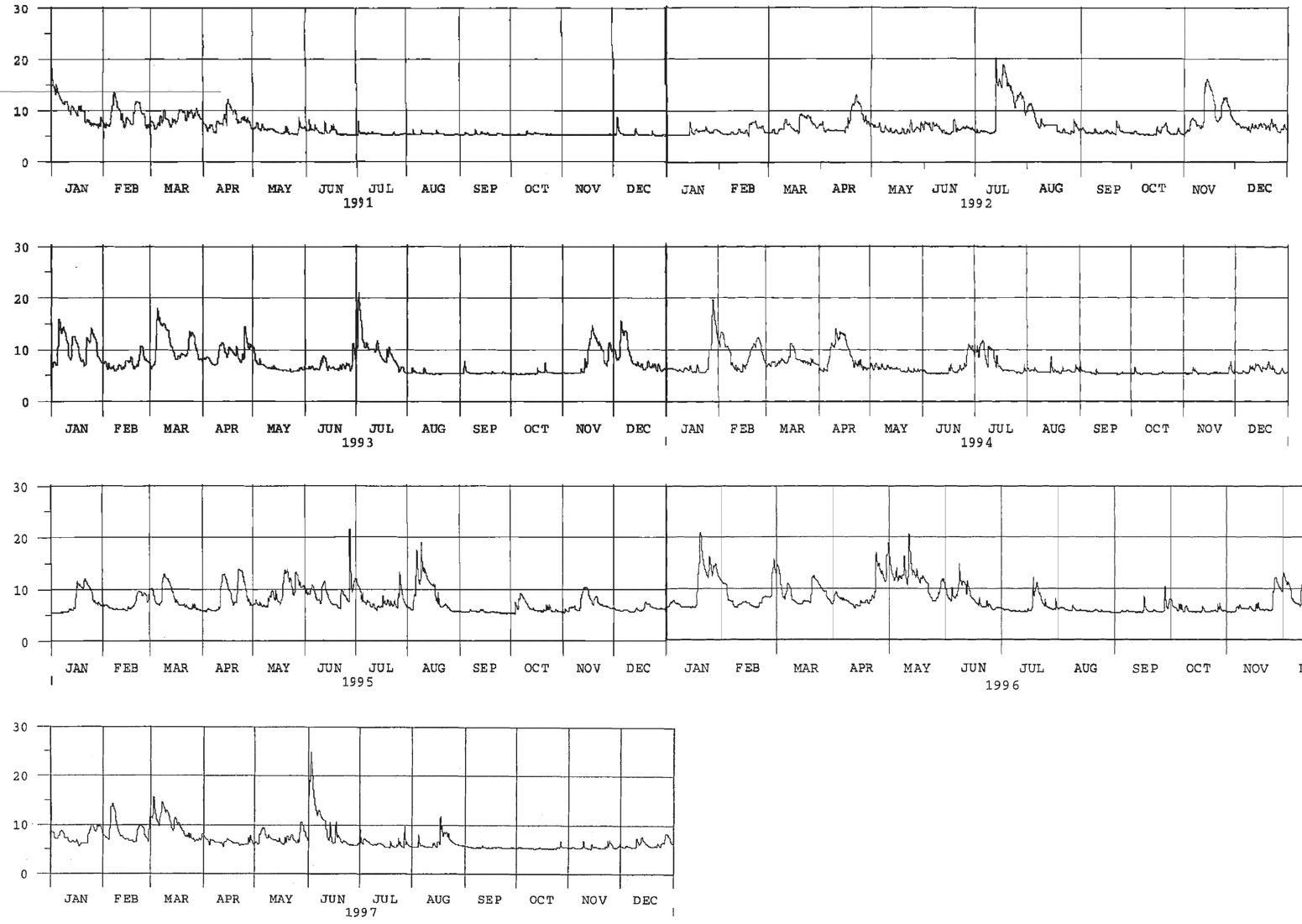
Sheet 14 of 16

STAGE IN FEET ABOVE 680.4



NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1921-1997 GAGE DATUM 680.4 NGVD.

PLOTS OBTAINED FROM SCANNED IMAGES OF CEORH-ED-HR SATELLITE DATA W/VERTICAL SCALE RANGE 0-100.

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

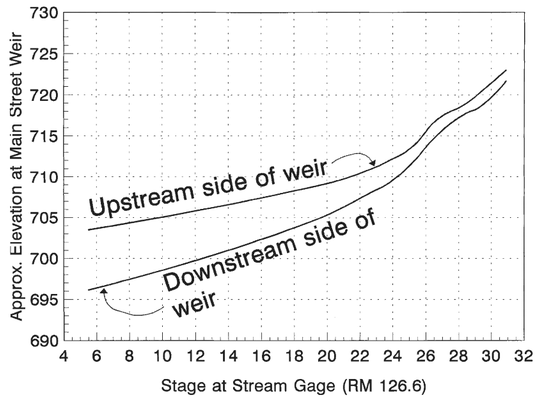
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

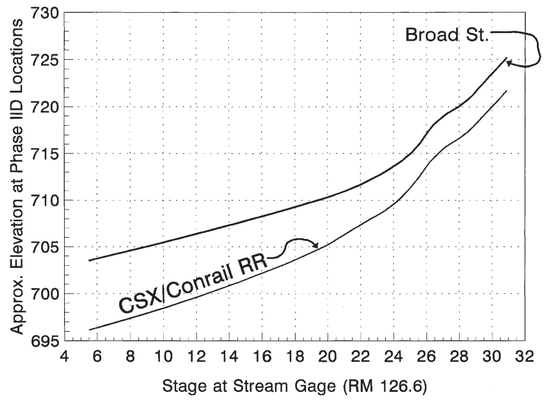
HYDROLOGY
STAGE HYDROGRAPHS

Designed by: V.L.P.
Drawn by: C.S.C.
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

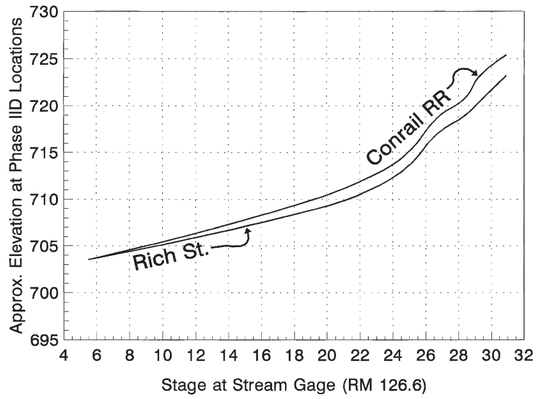
Scale: NONE
Date:
Drawing Code: 016-PWC-10-
Sheet reference number: 14/15
FILENAME: 00hhth15.dgn
PEN TABLE: STD: b.ptb STD: f.ptb
Sheet 15 of 16



Correlation Curve from Stream Gage to Phase IID - Main Street Weir



Correlation Curve from Stream Gage to IID Locations



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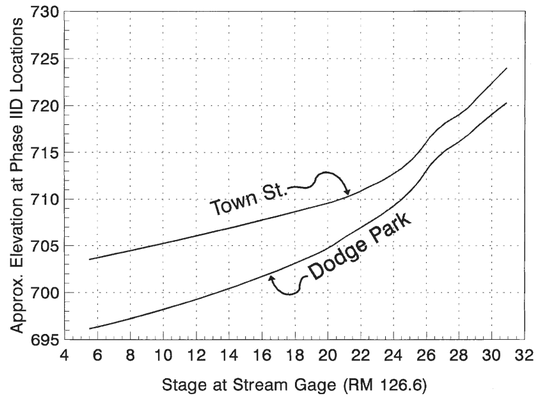


Correlation Curve from Stream Gage to IID Locations

NOTES

PHASE IID LOCATIONS IN ORDER FROM UPSTREAM TO DOWNSTREAM ARE:

CONRAIL RR
BROAD ST.
TOWN ST.
RICH ST.
UPSTREAM SIDE OF WIER
DOWNSTREAM SIDE OF WIER
CSX / CONRAIL RR
DODGE PARK

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: K.C.H.
Drawn by: JOE SALVINO
Checked by: JOHN BOCK
Reviewed by: KEN HALSTEAD
Approved by:

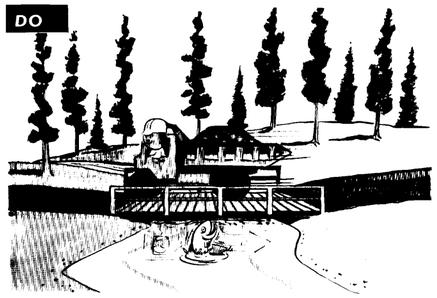
US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IID

HYDROLOGY CORRELATION CURVE

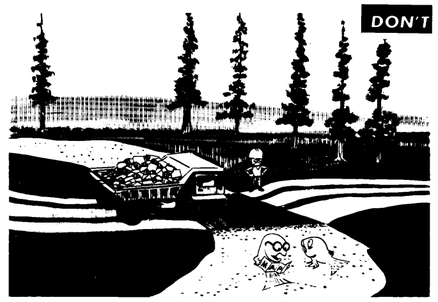
Scale: NONE
Date:
Drawing Code: 016-PWC-10-
Sheet reference number: 14/16
FILENAME: 00hhfh16.dgn
PEN TABLE: STD:b.prb STD:f.prb
Sheet 16 of 16

DO



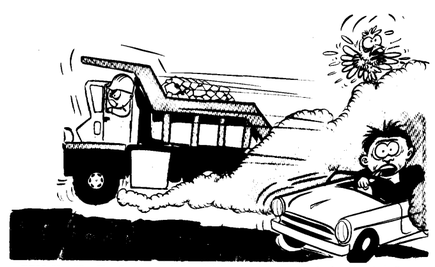
EPM No. 20.—Where frequent stream crossings are necessary, temporary culverts or bridges shall be provided.

DON'T



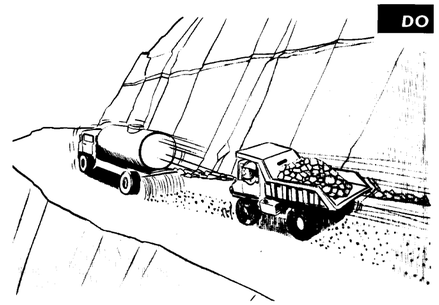
EPM No. 21.—The Contractor shall perform all work in a manner to prevent any interference or disturbance to the safe passage and spawning of game fish.

DON'T



EPM No. 22.—The Contractor shall maintain all excavations, embankments, stockpiles, roads, plant sites, waste areas, borrow areas, and all other work areas within or without the project boundaries free from dust which would cause a hazard or nuisance to others.

DO

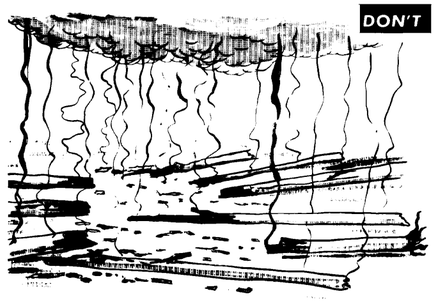


EPM No. 23.—Approved temporary methods of stabilization consisting of sprinkling, chemical treatment, light bituminous treatment or equal methods shall be provided to control dust.

DO

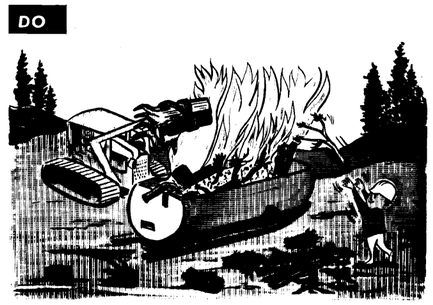
EPM No. 24.—Except as restricted by the Fire Control Officer, burning shall assure continuous, rapid and complete combustion. To meet this requirement, burning piles shall be kept under constant attendance by heavy equipment and operators who shall stack or push in burning piles from the edges, or shall feed fires with additional combustibles.

DON'T



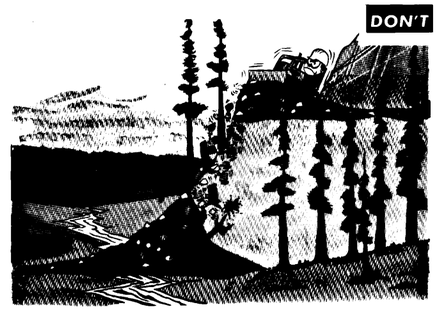
EPM No. 25.—Burn piles and individual pieces of burned material shall not be allowed to smolder.

DO



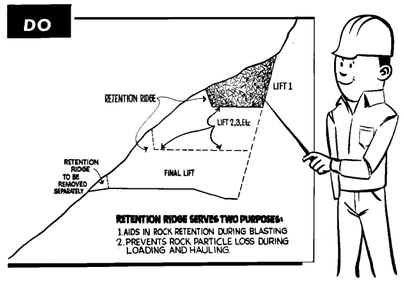
EPM No. 26.—High heat burning shall be done in burning boxes, portable incinerators, open pits or trenches.

DON'T



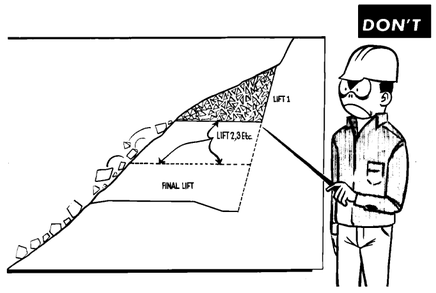
EPM No. 27.—Waste materials shall not be dumped on slopes.

DO



EPM No. 28.—The pattern of drilling and the depth, size and loading of holes along the outer edge of benched cuts shall be such as to provide retention ridges of rock to act as a restraint against loss of material down the slope.

DON'T



EPM No. 28.—The pattern of drilling and the depth, size and loading of holes along the outer edge of benched cuts shall be such as to provide retention ridges of rock to act as a restraint against loss of material down the slope. (See DO for proper procedure.)

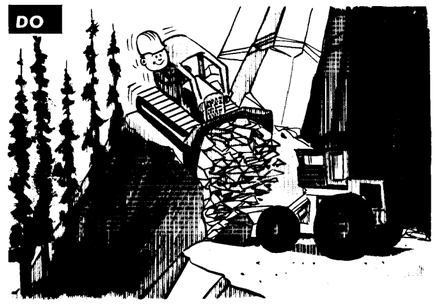
DO

EPM No. 29.—Excavation of blasted material shall be conducted in such a manner that operation of excavation equipment does not contribute to loss of material down the slope.

DON'T

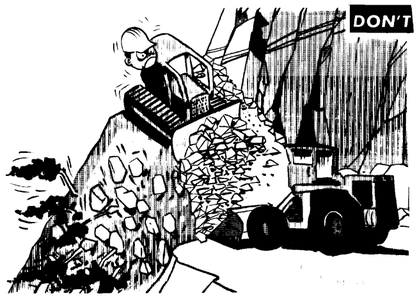
EPM No. 29.—Excavation of blasted material shall be conducted in such a manner that operation of excavation equipment does not contribute to loss of material down the slope. (See DO for proper procedure.)

DO



EPM No. 30.—Full U-blades shall be used on dozers excavating on slopes.

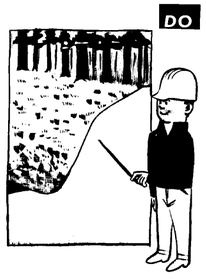
DON'T



EPM No. 30.—Full U-blades shall be used on dozers excavating on slopes. (See DO for proper procedure.)

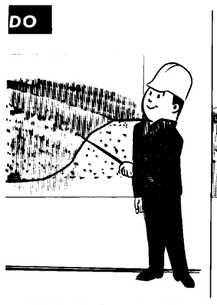
DON'T

DO

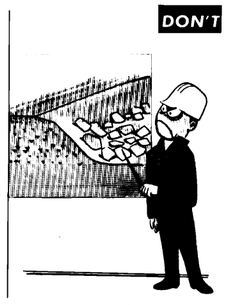


EPM No. 31.—In other than solid rock, the tops of excavated slopes shall be rounded off as shown on the contract drawings.

DO



DON'T



EPM No. 32.—Loose rocks, cobbles and boulders falling outside the finished slopes shall be removed where operations for removal of such material will not deface the landscape.

FOR INFORMATION ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by:
Drawn by:
Checked by:
Reviewed by:
Approved by:

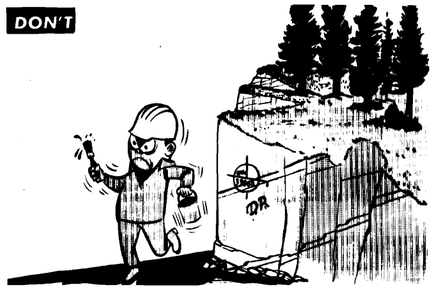
US Army Corps of Engineers

ENVIRONMENTAL PROTECTION MEASURES

Scale: NONE
Date:
Drawing Code: Z2-107/1
Sheet reference number: 00evsd01.dgn
Sheet 1 of 2

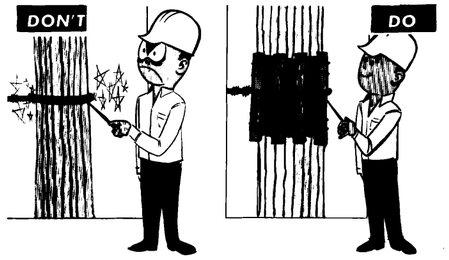
Pen Table:f.ptb, b.ptb

EPM No. 1.—The Contractor shall conduct frequent on the job training courses, not less than monthly, for the purpose of emphasizing the environmental protection requirements of the contract. He shall emphasize that prevention of damage to the environment is the primary goal and that restoration should be necessary only when damage is unavoidable.

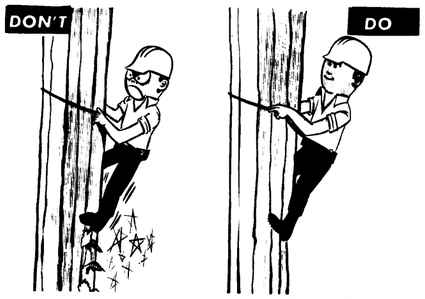


EPM No. 2.—Rock faces and other interesting geologic features, including natural boat landings, which will be exposed by drawdown of the reservoir shall be preserved.

EPM No. 3.—Survey lines shall be located to avoid cutting large trees and to minimize clearing beyond established clearing limits. Clearing of brush and branches for sight lines shall be held to the minimum practical limits.

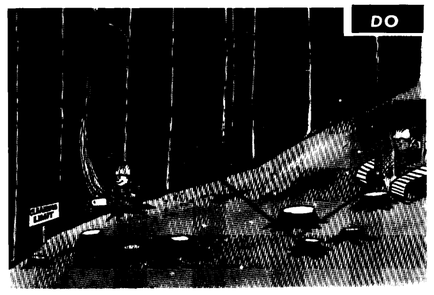


EPM No. 4.—Except in areas to be cleared, no ropes, cables or guys shall be fastened to or attached to trees unless specifically authorized by the Contracting Officer. Where such anchorage is permitted, the trunk shall first be wrapped with not less than 4 layers of burlap or equivalent padding over which softwood cleats shall be tied before any rope, cable or wire is placed.

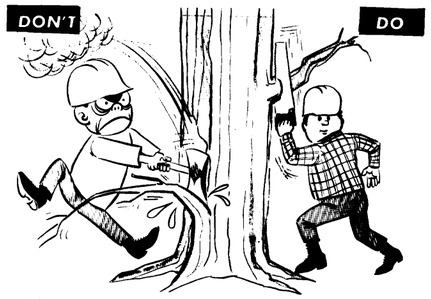


EPM No. 5.—Where tree climbing is necessary, the use of climbing spurs will not be permitted.

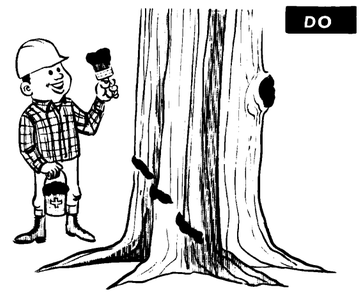
EPM No. 6.—During clearing operations, trees and debris shall not be allowed to fall outside the clearing limits where such fall would damage or injure trees and shrubs which are to remain and where operations for removal of fallen materials will damage or injure trees and shrubs which are to remain.



EPM No. 7.—Ropes, guys or other means shall be used where necessary to restrain materials from damaging trees or shrubs which are to remain.



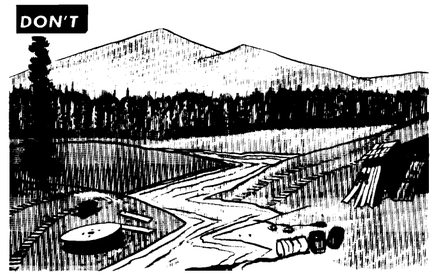
EPM No. 8.—All trimming or pruning shall be done with saws or pruning shears. Tree trimming with axes will not be permitted.



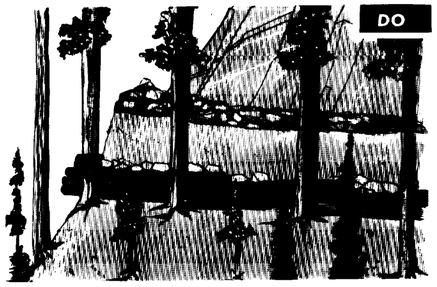
EPM No. 9.—All treated wounds and specified pruning cuts shall be painted with an approved tree pruning compound of a color approximately matching the color of the bark.

EPM No. 10.—Where game trails or hiking trails cross construction areas, such trails shall not be covered by debris and shall be maintained in a safe and passable condition at all times.

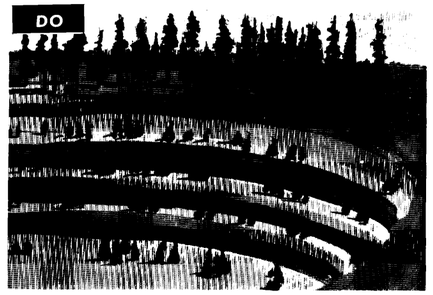
EPM No. 11.—Ramps shall be constructed in cut areas or trails shall be rerouted to provide access. Location of rerouted trails shall be subject to the approval of the Contracting Officer. Traffic warning signs shall be provided at hiking trails and maintained during construction operations.



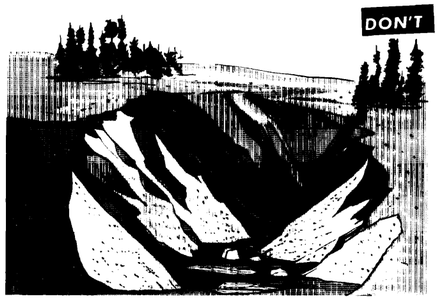
EPM No. 12.—When work is completed, whether on Government-owned lands or on private lands, all camp, storage and other contractor's buildings shall be removed, and the sites restored to a neat and presentable condition appropriate to the landscape, unless otherwise specified.



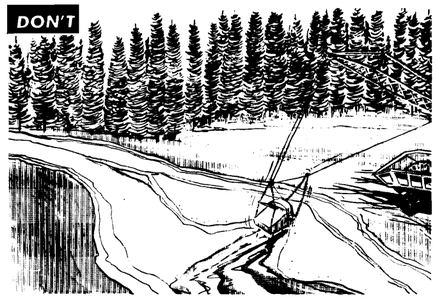
EPM No. 13.—The contractor shall erect log barriers in specified locations to prevent excavated material from escaping down the slope. The log barriers shall be placed at the edge of the cleared area or in other locations up the slope as approved by the Contracting Officer.



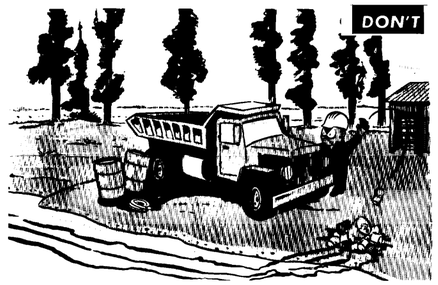
EPM No. 14.—Development and reclamation of borrow areas shall be in accordance with the approved borrow area reclamation plan.



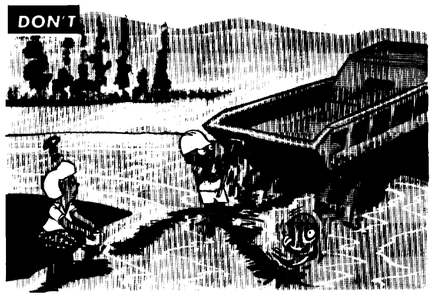
EPM No. 15.—Slopes of the borrow site shall be graded and dressed to blend with the adjacent terrain.



EPM No. 16.—Borrow areas shall not be located in or adjacent to live streams.



EPM No. 17.—At all times of the year, special measures shall be taken to prevent chemicals, fuels, oils, greases, bituminous materials, waste washings, herbicides, insecticides, lime, wet concrete, cement, silt or organic or other deleterious material from entering waterways.



EPM No. 18.—Waters used to wash down equipment shall be disposed of in a manner to prevent their entry into a waterway.

EPM No. 19.—The use of equipment within streams shall be held to that necessary for preparing a base for culverts and for channel diversion only.

FOR INFORMATION ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

US Army Corps of Engineers

ENVIRONMENTAL PROTECTION MEASURES

Designed by:			
Drawn by:			
Checked by:			
Reviewed by:	Scale: NONE	Sheet reference number:	00evsd02.dgn
Approved by:	Date:		
	Drawing Code: Z2-107/2		Sheet 2 of 2

Pen Table:f.ptb, b.ptb