

**US Army Corps
of Engineers**

Huntington District

As-Constructed Plans

Phase IIIA – LOCAL PROTECTION PROJECT WEST COLUMBUS, OHIO

Note: Phase IIIA was constructed under two separate contracts. Project Features between Stations 227+18.00 and 240+38.40 were constructed by Lionel Construction. Project Features between Stations 247+15.38 and 260+92.50 were constructed by Alan Stone Company.

November 2002

CC-13138


NOTE: REDUCED 50%

I N D E X

SHEET NO.	DRAWING NO.	TITLE	SHEET NO.	DRAWING NO.	TITLE	SHEET NO.	DRAWING NO.	TITLE	SHEET NO.	DRAWING NO.	TITLE
		GENERAL			GEOTECHNICAL						
1	0/1	INDEX	49	16/11	CROSS SECTIONS 215+82.37 TO 218+00	95	10/1	SOIL BORING PLAN (1 OF 2)			
2	0/2	LEGEND	50	16/12	CROSS SECTIONS 218+50 TO 221+00	96	10/2	SOIL BORING PLAN (2 OF 2)			
3	0/3	NOTES	51	16/13	CROSS SECTIONS 221+50 TO 224+00	97	10/3	GEOLOGY AND SOILS LEGEND			
4	0/4	PROJECT MAPS	52	16/14	CROSS SECTIONS 224+50 TO 227+00	98	10/4	GRAPHIC LOGS OF BORINGS			
5	0/5	SITE PLAN	53	16/15	CROSS SECTIONS 227+50 TO 230+00	99	10/5	GRAPHIC LOGS OF BORINGS			
6	0/6	UNDERGROUND UTILITIES SITE PLAN (1 OF 2)	54	16/16	CROSS SECTIONS 230+50 TO 233+00	100	10/6	GRAPHIC LOGS OF BORINGS			
7	0/7	UNDERGROUND UTILITIES SITE PLAN (2 OF 2)	55	16/17	CROSS SECTIONS 233+50 TO 236+00	101	10/7	GEOLOGIC SECTION A-A STA.225+27			
			56	16/18	CROSS SECTIONS 236+50 TO 239+00	102	10/8	GEOLOGIC SECTION B-B STA.244+42			
		CONTRACTOR WORK LIMITS	57	16/19	CROSS SECTIONS 239+50 TO 242+00	103	10/9	GEOLOGIC SECTION C-C STA.258+92			
8	6/1	MONUMENT PLAN (1 OF 5)	58	16/20	CROSS SECTIONS 242+50 TO 245+00	104	10/10	GEOLOGIC PROFILE SECTION D-D			
9	6/2	MONUMENT PLAN (2 OF 5)	59	16/21	CROSS SECTIONS 245+50 TO 248+00	105	10/11	GEOLOGIC PROFILE SECTION D-D			
10	6/3	MONUMENT PLAN (3 OF 5)	60	16/22	CROSS SECTIONS 248+50 TO 251+00						
11	6/4	MONUMENT PLAN (4 OF 5)	61	16/23	CROSS SECTIONS 251+50 TO 254+00						
12	6/5	MONUMENT PLAN (5 OF 5)	62	16/24	CROSS SECTIONS 254+50 TO 257+00						
13	6/6	CWL MONUMENT TABLES	63	16/25	CROSS SECTIONS 257+50 TO 260+00			HYDROLOGY			
			64	16/26	CROSS SECTIONS 260+50 TO 263+00	106	14/1	STAGE HYDROGRAPHS			
			65	16/27	CROSS SECTIONS 263+50 TO 263+54.04	107	14/2	STAGE HYDROGRAPHS			
		RIGHT OF WAY			FLOODWALL	108	14/3	STAGE HYDROGRAPHS			
14	6/7	MONUMENT PLAN (1 OF 4)			TYPICAL I-WALL DETAILS (1 OF 2)	109	14/4	STAGE HYDROGRAPHS			
15	6/8	MONUMENT PLAN (2 OF 4)	66	20.1/1	TYPICAL I-WALL DETAILS (2 OF 2)	110	14/5	STAGE HYDROGRAPHS			
16	6/9	MONUMENT PLAN (3 OF 4)	67	20.1/2	MISCELLANEOUS DETAILS	111	14/6	STAGE HYDROGRAPHS			
17	6/10	MONUMENT PLAN (4 OF 4)	68	20.1/3	FLOODWALL TEXTURE DETAILS	112	14/7	STAGE HYDROGRAPHS			
18	6/11	R/W MONUMENT TABLES	69	20.1/4	FLOODWALL PLAN STA.227+00 TO 233+00	113	14/8	STAGE HYDROGRAPHS			
			70	20.1/5	FLOODWALL PLAN STA.233+00 TO 237+00	114	14/9	STAGE HYDROGRAPHS			
		SURVEY	71	20.1/6	FLOODWALL PLAN STA.250+00 TO 256+00	115	14/10	STAGE HYDROGRAPHS			
19	11/1	SURVEY REFERENCES (1 OF 3)	72	20.1/7	FLOODWALL PLAN STA.256+00 TO 260+45	116	14/11	STAGE HYDROGRAPHS			
20	11/2	SURVEY REFERENCES (2 OF 3)	73	20.1/8	GREENLAWN AVENUE CLOSURE PLAN AND PROFILE	117	14/12	STAGE HYDROGRAPHS			
21	11/3	SURVEY REFERENCES (3 OF 3)			FILL AREA SITE PLAN	118	14/13	STAGE HYDROGRAPHS			
22	11/4	CENTERLINE OF PROTECTION (1 OF 5)	74	20.2/1	FILL AREA NO.1 SITE PLAN	119	14/14	STAGE HYDROGRAPHS			
23	11/5	CENTERLINE OF PROTECTION (2 OF 5)	75	20.2/2	FILL AREA NO.2 SITE PLAN	120	14/15	STAGE HYDROGRAPHS			
24	11/6	CENTERLINE OF PROTECTION (3 OF 5)	76	20.2/3	DECELERATION LANE AND ACCESS ROAD	121	14/16	CORRELATION CURVE			
25	11/7	CENTERLINE OF PROTECTION (4 OF 5)	77	20.2/4							
26	11/8	CENTERLINE OF PROTECTION (5 OF 5)	77A	20.2/4A							
27	11/9	CENTERLINE OF PROTECTION - HORIZ. ALIGN.			ELECTRICAL			ENVIRONMENTAL PROTECTION			
		INTERIOR DRAINAGE	78	20.2/5	ROADWAY LIGHTING REMOVAL (1 OF 2)	122	107/1	ENVIRONMENTAL PROTECTION MEASURES (1 OF 2)			
28	15/1	GATEWELL NO.1 PLAN AND PROFILE	79	20.2/6	ROADWAY LIGHTING REMOVAL (2 OF 2)	123	107/2	ENVIRONMENTAL PROTECTION MEASURES (2 OF 2)			
29	15/2	GATEWELL NO.2 PLAN AND PROFILE	80	20.2/7	ROADWAY LIGHTING REPLACEMENT (1 OF 2)						
30	15/3	GATEWELL NO.3 PLAN AND PROFILE	81	20.2/8	ROADWAY LIGHTING REPLACEMENT (2 OF 2)						
31	15/4	GATEWELL NO.4 PLAN AND PROFILE	82	20.2/9	ROADWAY LIGHTING DETAILS (1 OF 6)						
32	15/5	GATEWELL NO.5 PLAN AND PROFILE	83	20.2/10	ROADWAY LIGHTING DETAILS (2 OF 6)						
33	15/6	GATEWELL NO.6 PLAN AND PROFILE	84	20.2/11	ROADWAY LIGHTING DETAILS (3 OF 6)						
34	15/7	TYPICAL GATEWELL PLAN AND SECTIONS	85	20.2/12	ROADWAY LIGHTING DETAILS (4 OF 6)						
35	15/8	GATEWELL DETAILS	86	20.2/13	ROADWAY LIGHTING DETAILS (5 OF 6)						
36	15/9	GATEWELL NOS.1 THRU 5 REINFORCING STEEL	87	20.2/14	ROADWAY LIGHTING DETAILS (6 OF 6)						
37	15/10	GATEWELL NO.6 REINFORCING STEEL	88	20.2/15	LIGHT POLE RELOCATION						
38	15/11	CATCH BASINS PLAN AND SECTIONS	89	20.2/16	TOWER LIGHTING NOTES						
		GENERAL PROTECTION			MISCELLANEOUS DRAWINGS						
39	16/1	PLAN AND PROFILE STA. 215+82.37 TO 220+00	90	20.3/1	FLOOD PROTECTION TYPICAL SECTIONS						
40	16/2	PLAN AND PROFILE STA. 220+00 TO 225+00	91	20.3/2	PAVEMENT DETAILS						
41	16/3	PLAN AND PROFILE STA. 225+00 TO 230+00	92	20.3/3	GATEWELL NO.6 SHORING PLAN						
42	16/4	PLAN AND PROFILE STA. 230+00 TO 235+00	92A	20.3/4	GATEWELL NO.1 SHORING PLAN						
43	16/5	PLAN AND PROFILE STA. 235+00 TO 240+00	92B	20.3/5	GATEWELL NO.4 SHORING PLAN						
44	16/6	PLAN AND PROFILE STA. 240+00 TO 245+00			MAINTENANCE OF TRAFFIC						
45	16/7	PLAN AND PROFILE STA. 245+00 TO 250+00			MAINTENANCE OF TRAFFIC (1 OF 2)						
46	16/8	PLAN AND PROFILE STA. 250+00 TO 255+00	93	92/1	MAINTENANCE OF TRAFFIC (2 OF 2)						
47	16/9	PLAN AND PROFILE STA. 255+00 TO 260+00	94	92/2							
48	16/10	PLAN AND PROFILE STA. 260+00 TO 263+54.04									

Revisions			
Symbol	Descriptions	Date	Approved
ADD BY MODIFICATION M0009		11/00	P.O.C.

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

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

Approved by:	Scale: NONE	Sheet reference numbers: 01	FILENAME: 00gdn07.dgn
	Date:		PEN TABLE:
	Drawing Code:		Sheet 1 of 1

ABBREVIATIONS

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

F
E
D
C
B
A

F
E
D
C
B
A

	DRAINAGE		CHAIN-LINK FENCE
	GUARDRAIL		TREELINE
	EXISTING SANITARY SEWER		BRUSH LINE
	EXISTING GAS LINE		TANKS
	EXISTING WATER LINE		TREE / BUSH
	EXISTING SLUDGE LINE		CONTRACTOR WORK LIMITS
	EXISTING U.G. FIBER OPTIC		LIMITED WORK LIMITS
	EXISTING FORCE MAIN		RIGHT OF WAY
	EXISTING STORM SEWER		CURB
	RELOCATED SANITARY SEWER		ROAD
	RELOCATED GAS LINE		UNIMPROVED ROAD
	RELOCATED WATER LINE		TRAIL
	RELOCATED STORM SEWER		STONE SLOPE PROTECTION LIMITS (PLAN)
	RELOCATED SLUDGE LINE		CENTERLINE OF PROJECT
	RELOCATED U. G. FIBER OPTIC		UNIFORM SLOPE DESIGNATION
	RELOCATED POWER		EXISTING SLOPE
	RELOCATED TELEPHONE		STATE HIGHWAY
	RELOCATED CABLE TV		INTERSTATE HIGHWAY
	RELOCATED CITY COMM.		U.S. HIGHWAY
	RELOCATED FIBER OPTIC		IRON PIN AND CAP
	EXISTING POWER		TREE W/BASE
	EXISTING TELEPHONE		CULVERT
	EXISTING CABLE TV		TRAFFIC SIGNAL
	EXISTING CITY COMM.		TRANS. TOWER
	EXISTING FIBER OPTIC		CATCH BASIN
	NEW SANITARY SEWER, SLUDGE MAIN OR FORCE MAIN		EXISTING MANHOLE
	NEW INTERCEPTOR		NEW MANHOLE
	NEW STORM SEWER		LIGHT POLE
	NEW DRAINAGE DITCH		FIRE HYDRANT
	NEW WATER LINE		SIGN POST
	EXISTING PIPE TO BE PLUGGED AND ABANDONED		V. CONTROL
	EXISTING PIPE TO BE REMOVED		H.-H./V. CONTROL
	DIRECTION OF RIVER FLOW		POWER POLE
	SWAMP		POST
	CORPORATE BOUNDARY LIMITS		MAIL BOX
	RAILROAD		METER
	RAILROAD		SIGN
			IN SITU ROCK
			IN SITU EARTH
			EARTH FILL
			SURFACE DRAINAGE FLOW
			CULVERT END
			HEADWALL
			CENTERLINE
			VALVE
			CONTAMINATED SOIL

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	 GENERAL LEGEND
Drawn by: T. MULLINS	
Checked by: R. ROMAN	
Reviewed by:	
Approved by:	Scale: NONE Date: OCTOBER 1999 Drawing Code: 16-PWC-12-
	Sheet reference number: 02 FILENAME: 00qdlg01.dgn PIN TABLE: Sheet 1 of 1

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, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223.
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.

UTILITIES RELOCATION

12. RELOCATION OF UTILITIES FOR THE CONVENIENCE OF THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.
13. 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.
14. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION:

SEWERAGE AND DRAINAGE	645-8156 AND 645-6311
WATER	645-7788
ELECTRICITY	645-7627
15. THE FOLLOWING IS A LIST OF UTILITIES AND OWNERS:

American Electric Power 1 Riverside Plaza Columbus, Ohio 43215-2373 (614) 223-1515
Columbus Division of Electricity Utilities Complex 910 Dublin Road Columbus, Ohio 43215-1116 (614) 645-7627
Columbus Division of Sewerage & Drainage Utilities Complex 910 Dublin Road Columbus, Ohio 43215-1116 (614) 645-7175
Ohio Department of Transportation District 6 400 East William Street Delaware, Ohio 43015 (740) 363-1251

MAPPING

16. ELEVATIONS ARE EXPRESSED IN FEET AND REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
17. 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.
18. TOPOGRAPHY DOES NOT REFLECT RECENT BUILDING REMOVAL, CONSTRUCTION OR GRADING.
19. THE MAPPING OF THE PROJECT SITE WAS COMPILED FROM PHOTOGRAPHY FLOWN MARCH 1997.

RIGHT OF WAY /WORKING LIMITS

20. 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.
21. THE AREA DESIGNATED AS LIMITED WORK LIMITS (LWL) SHALL BE USED AS A CONTRACTOR LAYDOWN AREA. THE CONTRACTOR SHALL PROVIDE ANY SECURITY MEASURES NECESSARY TO PROTECT EQUIPMENT AND MATERIALS.


SPOIL MATERIAL

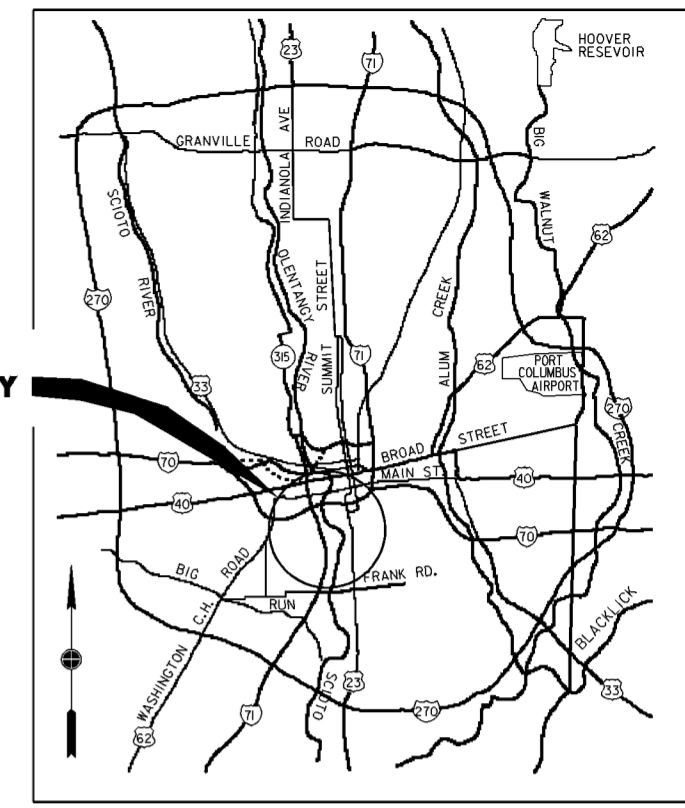
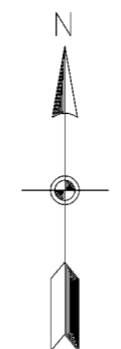
22. THE CONTRACTOR SHALL DISPOSE OF SPOIL MATERIALS OFF-SITE IN ACCORDANCE WITH PART 3 OF SECTION 02221 EXCAVATION, OF THE SPECIFICATIONS.

GENERAL

23. 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.
24. 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 AND BOTTOM OF CATCH BASINS AND GATEWELLS SHALL ALSO BE VERIFIED PRIOR TO ORDERING.
25. THE CONTRACTOR SHALL MAKE PROVISIONS TO WORK AROUND THE CITY OF COLUMBUS, DIVISION OF ELECTRICITY FACILITIES THAT EXIST ON THE EAST SIDE OF I-71 (FROM I-70 TO GREENLAWN AVENUE). SERVICE SHALL NOT BE INTERRUPTED AND CIRCUITS SHALL NOT BE DEENERGIZED.
26. THE CONTRACTOR SHALL PROTECT TREES AS NECESSARY WHEN WORKING BETWEEN THE ODOT RIGHT-OF-WAY FENCE AND SCIOTO RIVER'S WATERS EDGE AS OUTLINED IN SPECIFICATION SECTION 02050. ANY TREE DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND.

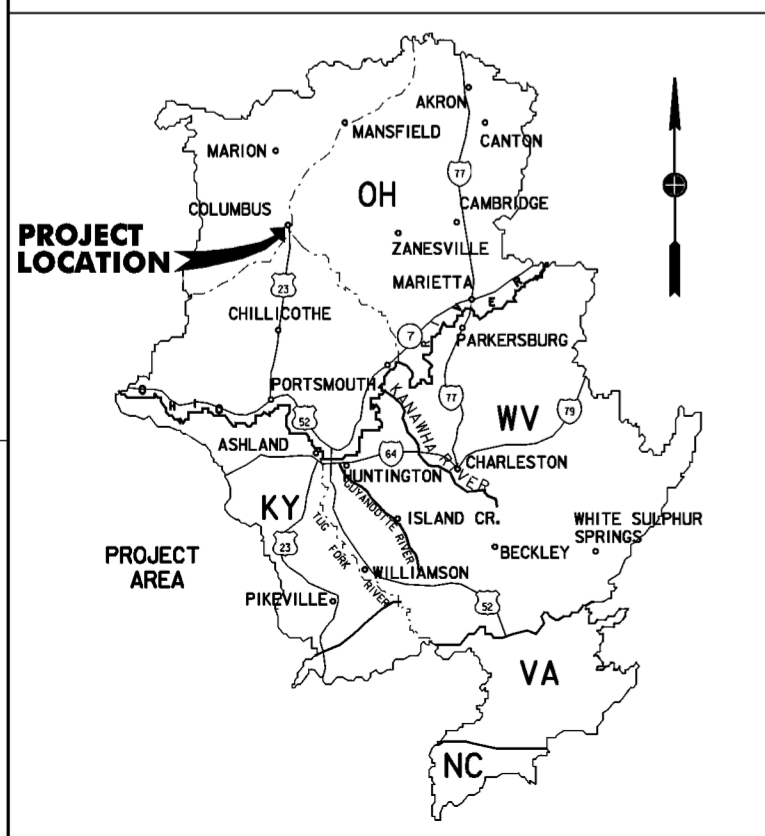
Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	 P.CONROY T.MULLINS R.OMAN	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA GENERAL NOTES				
				Designed by:	Scale: NONE	Sheet reference number:	FILENAME: 00qdg01.dgn
				Drawn by:	Date: OCTOBER 1999	PEN TABLE:	Sheet 1 of 1
				Checked by:	Drawing Code: 16-PWC-12-	03	Sheet 1 of 1



VICINITY MAP
 N.T.S.

LOCATION MAP
 N.T.S.




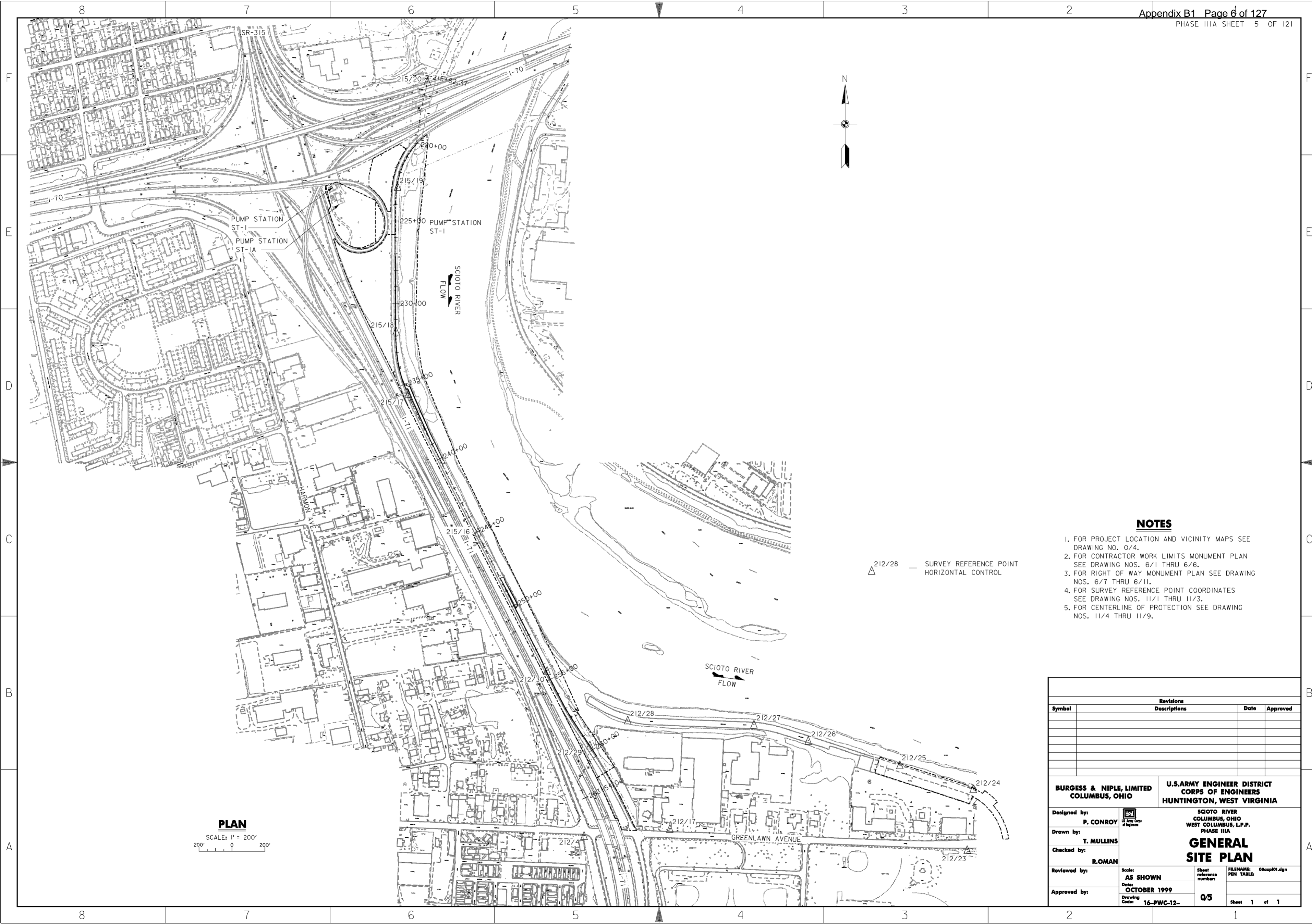
PROJECT MAP
 SCALE: 1" = 500'
 500' 0 500'

LEGEND

 PHASE III-A PROJECT AREA

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, 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 IIIA GENERAL PROJECT MAPS		
Drawn by: T. MULLINS			
Checked by: R. ROMAN			
Reviewed by:			
Approved by:	Scale: AS SHOWN Date: OCTOBER 1999 Drawing Code: 16-PWC-12-	Sheet reference number: 0/4	FILENAME: 00azpm01.dgn PIN TABLE: Sheet 1 of 1



NOTES

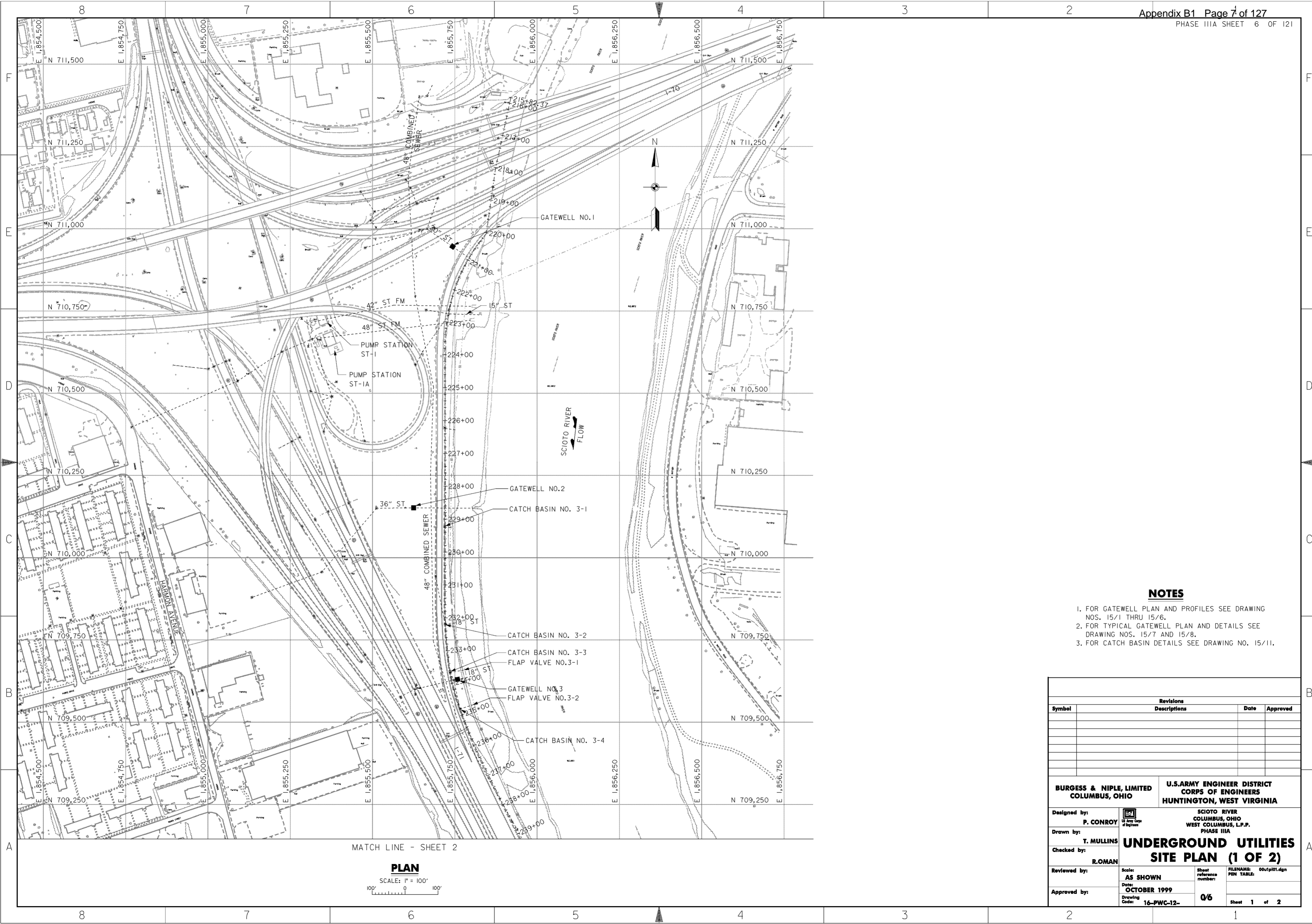
1. FOR PROJECT LOCATION AND VICINITY MAPS SEE DRAWING NO. 0/4.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLAN SEE DRAWING NOS. 6/1 THRU 6/6.
3. FOR RIGHT OF WAY MONUMENT PLAN SEE DRAWING NOS. 6/7 THRU 6/11.
4. FOR SURVEY REFERENCE POINT COORDINATES SEE DRAWING NOS. 11/1 THRU 11/3.
5. FOR CENTERLINE OF PROTECTION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

△ 212/28 — SURVEY REFERENCE POINT
 — HORIZONTAL CONTROL

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		GENERAL SITE PLAN	
Designed by: P. CONROY	Drawn by: T. MULLINS	Checked by: R.ROMAN	Reviewed by: AS SHOWN
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet reference number: 0/5
FILENAME: 00azp101.dgn		PEN TABLE:	
Sheet 1 of 1		Sheet 1 of 1	

WORK AS CONSTRUCTED



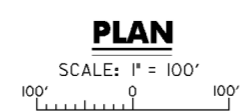
NOTES

1. FOR GATEWELL PLAN AND PROFILES SEE DRAWING NOS. 15/1 THRU 15/6.
2. FOR TYPICAL GATEWELL PLAN AND DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
3. FOR CATCH BASIN DETAILS SEE DRAWING NO. 15/11.

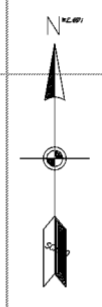
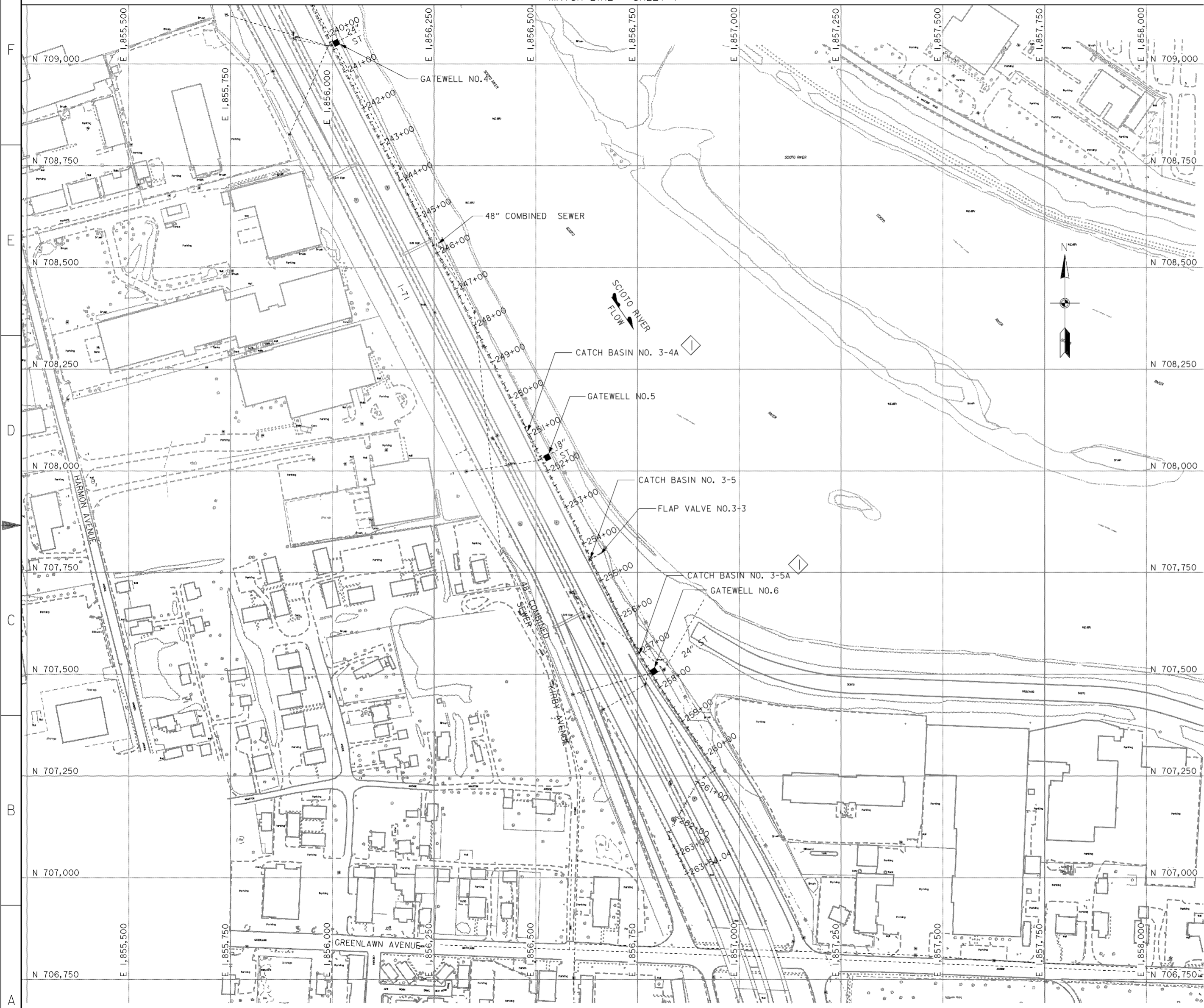
Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		UNDERGROUND UTILITIES SITE PLAN (1 OF 2)	
Designed by: P. CONROY		Drawn by: T. MULLINS	Reviewed by: Scale: AS SHOWN
Checked by: R. ROMAN		Date: OCTOBER 1999	Sheet reference number: 0/6
Approved by:		Drawing Code: 16-PWC-12-	FILENAME: 00utp101.dgn
Approved by:		Drawing Code:	Sheet 1 of 2

MATCH LINE - SHEET 2



MATCH LINE - SHEET 1



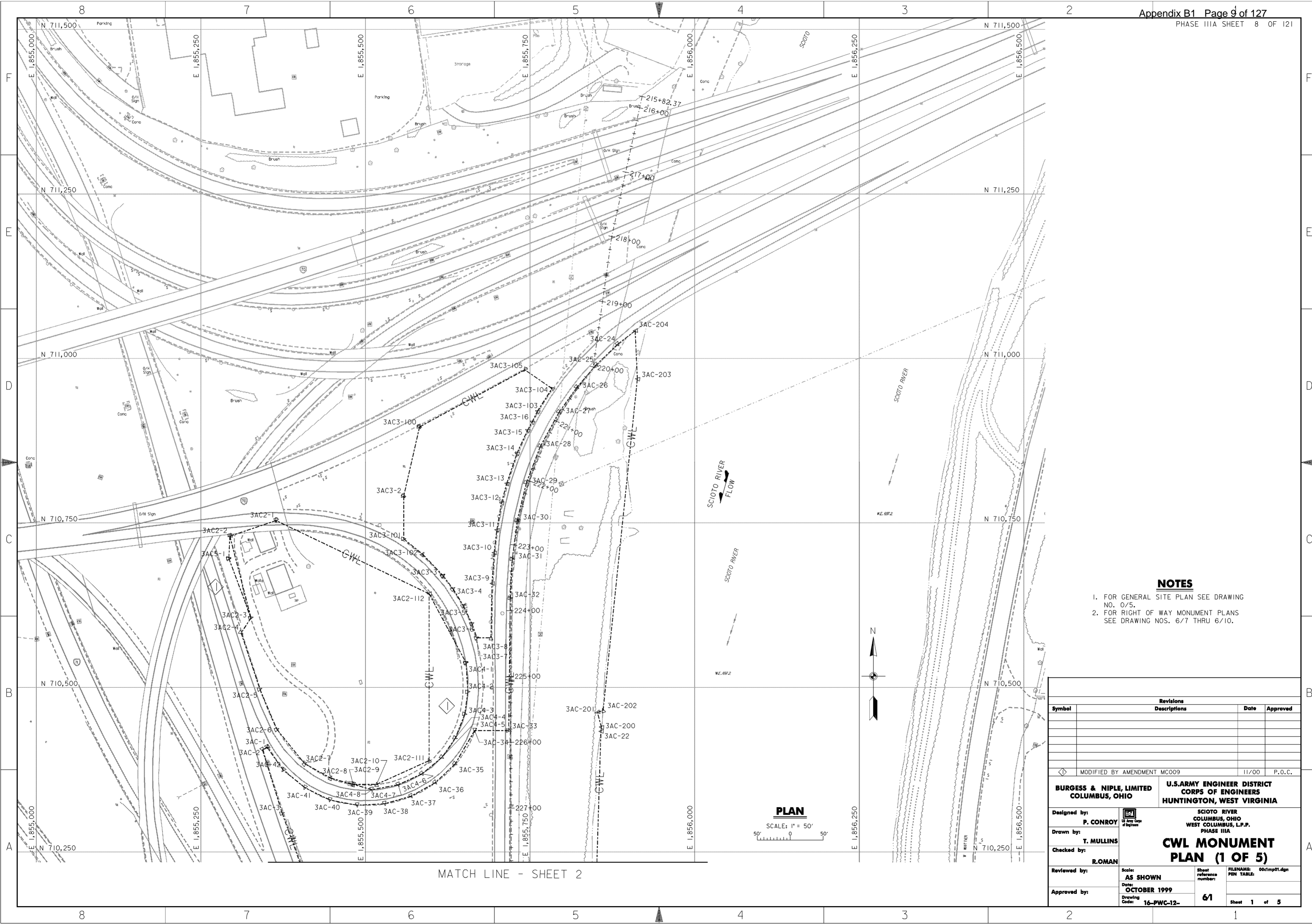
PLAN

SCALE: 1" = 100'

NOTES

1. FOR GATEWELL PLAN AND PROFILES SEE DRAWING NOS. 15/1 THRU 15/6.
2. FOR TYPICAL GATEWELL PLAN AND DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
3. FOR CATCH BASIN DETAILS SEE DRAWING NO. 15/11.

Revisions			
Symbol	Descriptions	Date	Approved
◇ REVISED AS CONSTRUCTED - PHASE IIIA SOUTH 4/01 P.O.C.			
BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: P. CONROY		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by: T. MULLINS		UNDERGROUND UTILITIES	
Checked by: R.ROMAN	SITE PLAN (2 OF 2)		
Reviewed by:	Scale: AS SHOWN	Sheet reference number: 07	FILENAME: a07p102.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 2 of 2



MATCH LINE - SHEET 2

NOTES

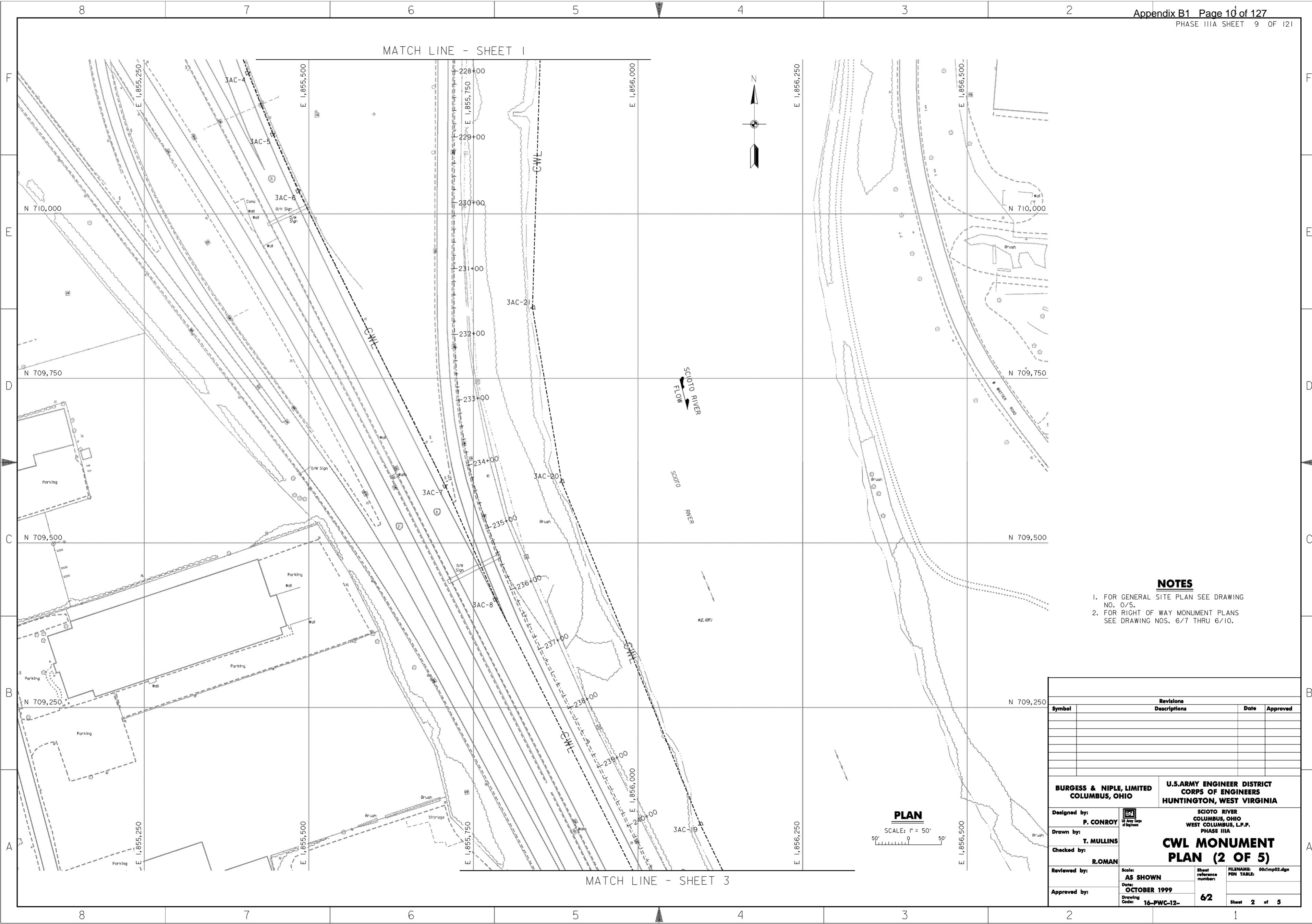
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
2. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/7 THRU 6/10.

Revisions			
Symbol	Descriptions	Date	Approved
MODIFIED BY AMENDMENT MC009		11/00	P.O.C.
BURGESS & NIPLÉ, 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 IIIA CWL MONUMENT PLAN (1 OF 5)		
Drawn by: T. MULLINS			
Checked by: ROMAN			
Reviewed by:			
Approved by:	Scale: AS SHOWN	Sheet reference number: 61	FILENAME: 00c1mp01.dgn
	Date: OCTOBER 1999		PIN TABLE:
	Drawing Code: 16-PWC-12-		Sheet 1 of 5

WORK AS CONSTRUCTED

MATCH LINE - SHEET 1

MATCH LINE - SHEET 3



- NOTES**
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
 2. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/7 THRU 6/10.

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	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA CWL MONUMENT PLAN (2 OF 5)
Drawn by: T. MULLINS	
Checked by: ROMAN	
Reviewed by:	
Approved by:	
Scale: AS SHOWN	Sheet reference number: 62
Date: OCTOBER 1999	FILENAME: 00c1mp02.dgn
Drawing Code: 16-PWC-12-	Sheet 2 of 5

WORK AS CONSTRUCTED



- NOTES**
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
 2. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/7 THRU 6/10.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, 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 IIIA CWL MONUMENT PLAN (3 OF 5)	
Drawn by: T. MULLINS			
Checked by: R.ROMAN	Reviewed by:	Scale: AS SHOWN	Sheet reference number: 6/3
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	FILENAME: PEN TABLE: 00c1mp03.dgn Sheet 3 of 5

PLAN
 SCALE: 1" = 50'

MATCH LINE - SHEET 3

MATCH LINE - SHEET 5



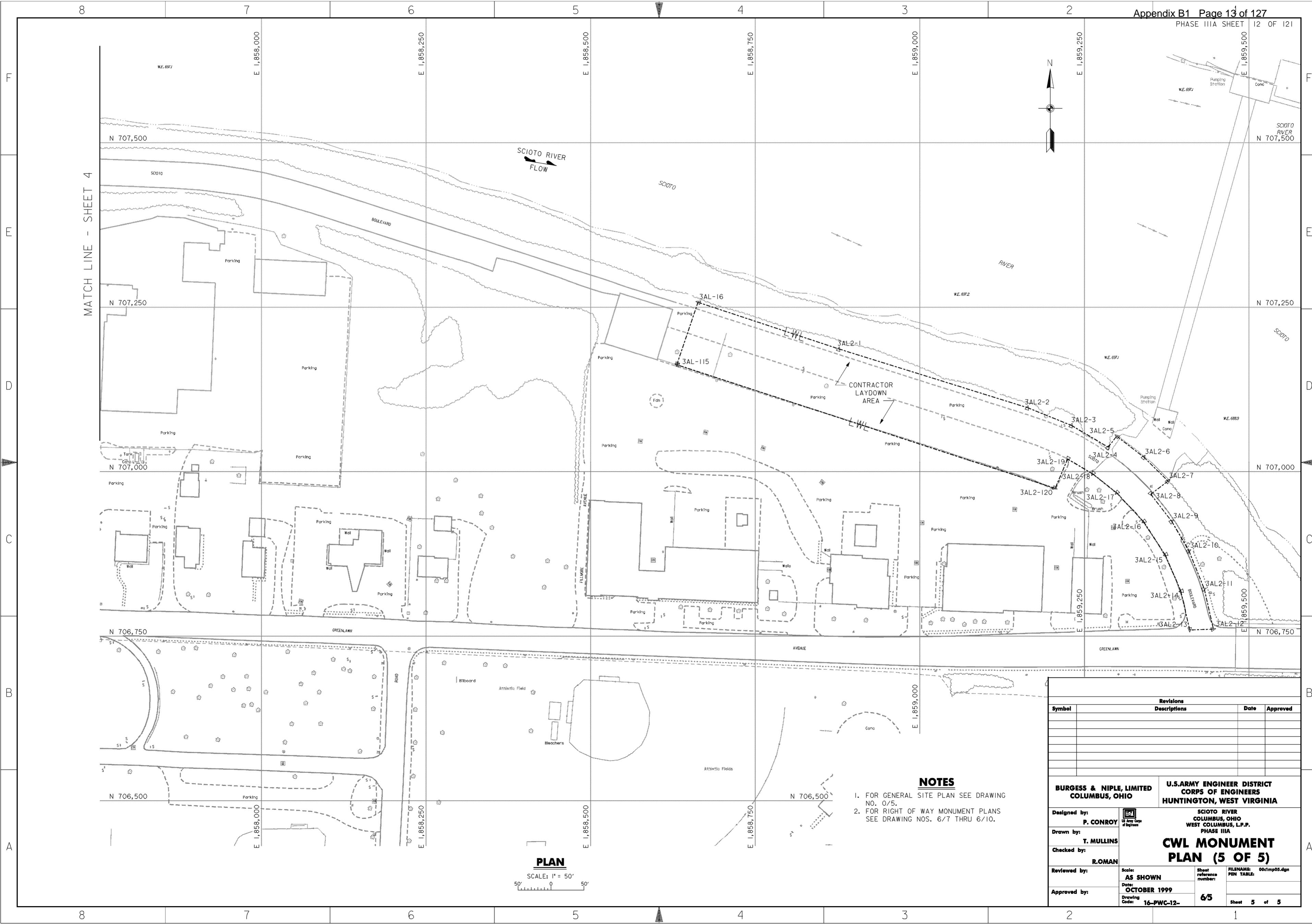
- NOTES**
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
 2. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/7 THRU 6/10.

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

Revisions			
Symbol	Descriptions	Date	Approved

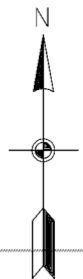
BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: P. CONROY		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA CWL MONUMENT PLAN (4 OF 5)	
Drawn by: T. MULLINS			
Checked by: R.ROMAN	Reviewed by:	Scale: AS SHOWN	Sheet reference number: 6/4
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	FILENAME: 00c1mp04.dgn PIN TABLE: Sheet 4 of 5

WORK AS CONSTRUCTED



MATCH LINE - SHEET 4

SCIOTO RIVER
FLOW



NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
2. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/7 THRU 6/10.

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

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	P. CONROY Registered Professional Engineer State of Ohio	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by:	Drawn by:	CWL MONUMENT PLAN (5 OF 5)
Checked by:	Reviewed by:	
Approved by:	Date: OCTOBER 1999	
Drawing Code:	16-PWC-12-	
Sheet reference number:	6/5	FILENAME: 00c1mp05.dgn PIN TABLE: Sheet 5 of 5

WORK AS CONSTRUCTED

CWL MONUMENT TABLES

Table with columns: LEVEE/FLOODWALL NO.1, POINT, EASTING, NORTHING, BEARING, DISTANCE. Contains 42 rows of data for various points along the levee.

Table with columns: LEVEE/FLOODWALL NO.2, POINT, EASTING, NORTHING, BEARING, DISTANCE. Contains 13 rows of data for various points along the levee.

Table with columns: ACCESS NO.1, POINT, EASTING, NORTHING, BEARING, DISTANCE. Contains 115 rows of data for various access points.

Table with columns: FILL AREA NO.3, POINT, EASTING, NORTHING, BEARING, DISTANCE. Contains 100 rows of data for various fill area points.

Table with columns: FILL AREA NO.1/DECELERATION LANE, POINT, EASTING, NORTHING, BEARING, DISTANCE. Contains 12 rows of data for deceleration lane points.

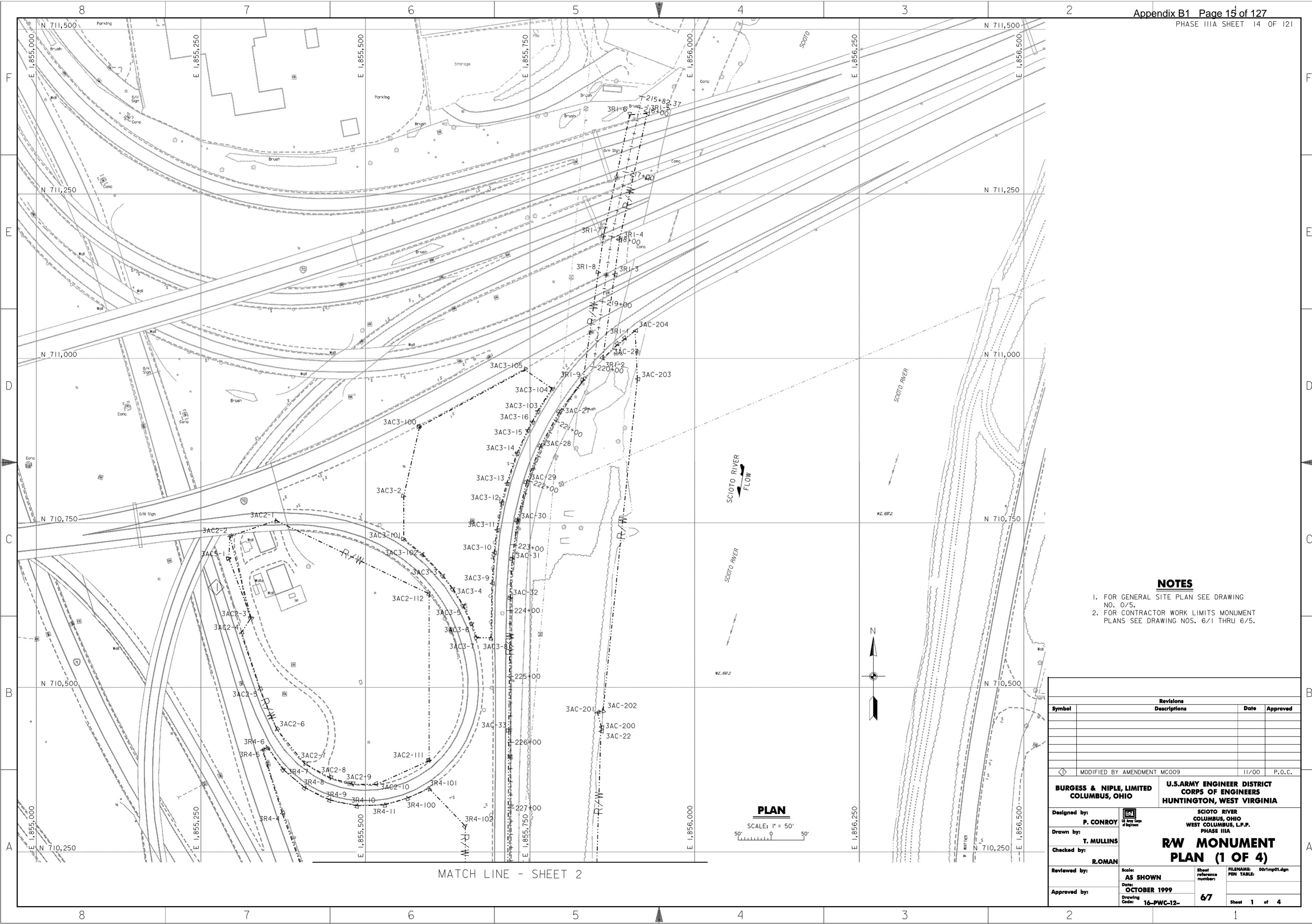
Table with columns: FILL AREA NO.1/PUMP STATION ACCESS ROAD, POINT, EASTING, NORTHING, BEARING, DISTANCE. Contains 5 rows of data for pump station access road points.

Table with columns: FILL AREA NO.1, POINT, EASTING, NORTHING, BEARING, DISTANCE. Contains 12 rows of data for fill area no. 1 points.

NOTES

- 1. FOR SITE PLAN SEE DRAWING NO. 0/5.
2. FOR CENTERLINE OF PROTECTION PLAN SEE DRAWING NOS. 11/4 THRU 11/9.

Professional engineering stamp and title block containing: Revisions table, Designated by: P.CONROY, Drawn by: T.MULLINS, Checked by: R.ROMAN, Reviewed by: [blank], Approved by: [blank], Scale: NONE, Date: OCTOBER 1999, Drawing Code: 16-PWC-12-, Sheet reference number: 6/6, FILENAME: 00c1m01.dgn, Sheet 1 of 1.



MATCH LINE - SHEET 2

- ### NOTES
- 1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
 - 2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/5.

Symbol	Revisions Descriptions	Date	Approved

MODIFIED BY AMENDMENT MC009 11/00 P.O.C.

BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P. CONROY	SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	RW MONUMENT PLAN (1 OF 4)
Checked by: ROMAN	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-
	Sheet reference number: 67
	FILENAME: 00r1mp01.dgn PEN TABLE: Sheet 1 of 4

MATCH LINE - SHEET 1

MATCH LINE - SHEET 3



- NOTES**
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
 2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/5.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, 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 IIIA RW MONUMENT PLAN (2 OF 4)	
Drawn by: T. MULLINS		
Checked by: ROMAN		
Reviewed by:		
Approved by:	Scale: AS SHOWN Date: OCTOBER 1999 Drawing Code: 16-PWC-12-	Sheet reference number: 6/8 FILENAME: 00r1mp02.dgn PEN TABLE: Sheet 2 of 4



NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/5.

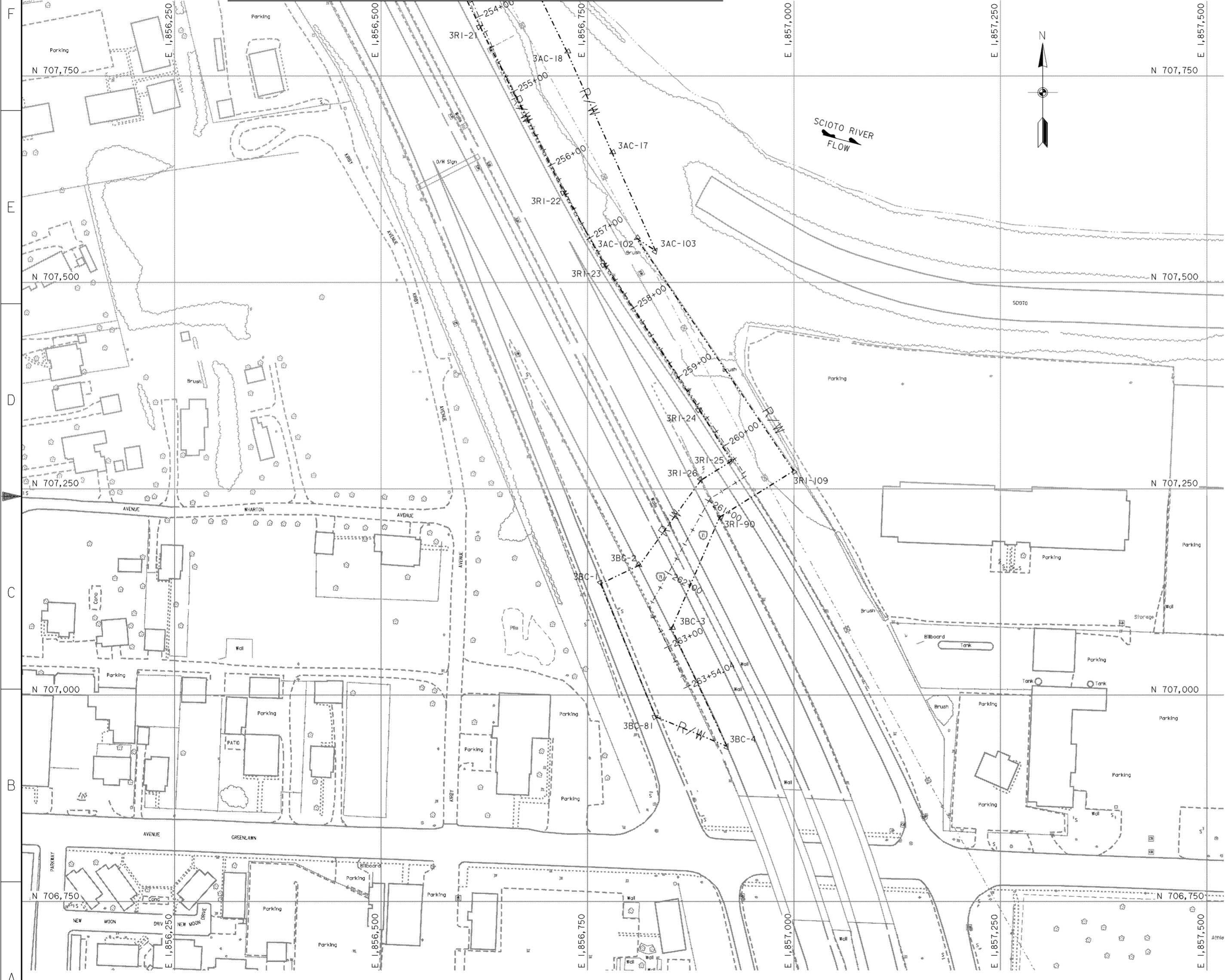
Revisions			
Symbol	Descriptions	Date	Approved

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 IIIA RW MONUMENT PLAN (3 OF 4)	
Drawn by: T. MULLINS			
Checked by: R. ROMAN	Reviewed by:	Scale: AS SHOWN	Sheet reference number: 69
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	FILENAME: PEN TABLE: 00r1mp03.dgn Sheet 3 of 4

PLAN
 SCALE: 1" = 50'

WORK AS CONSTRUCTED


MATCH LINE - SHEET 3

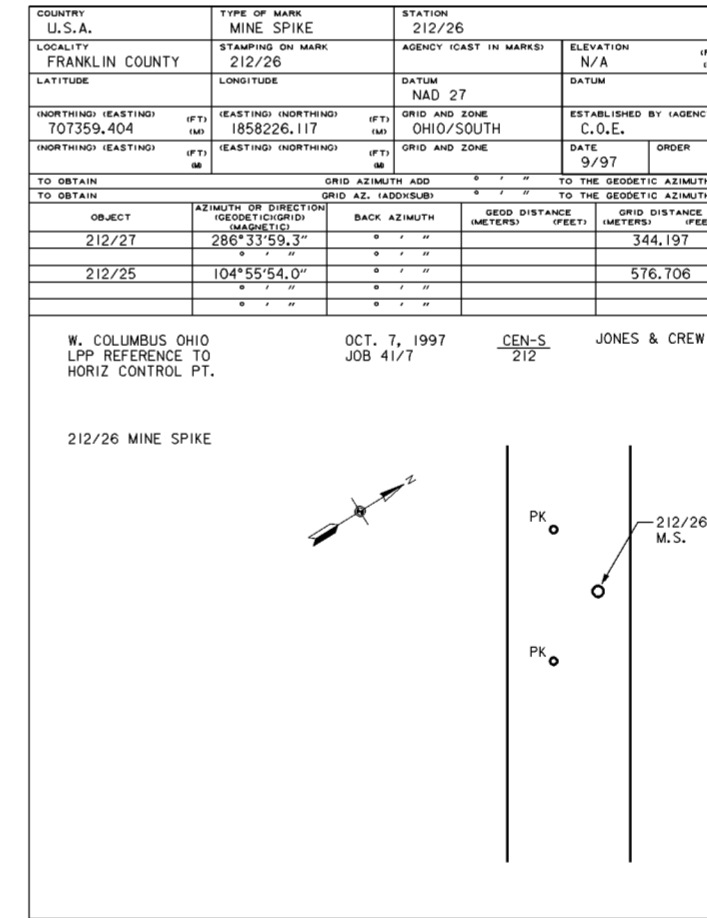
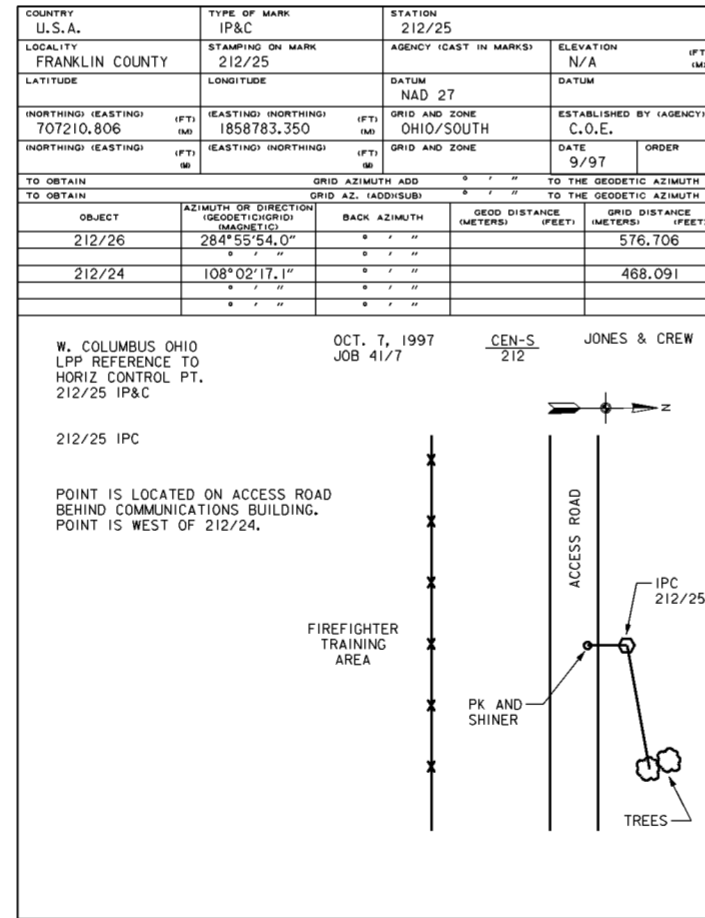
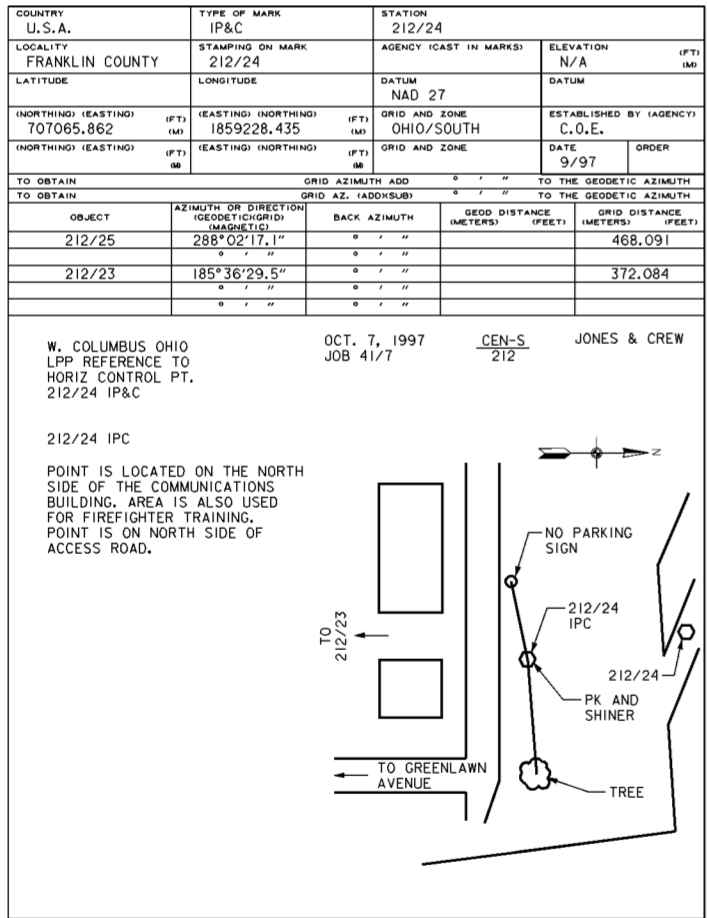
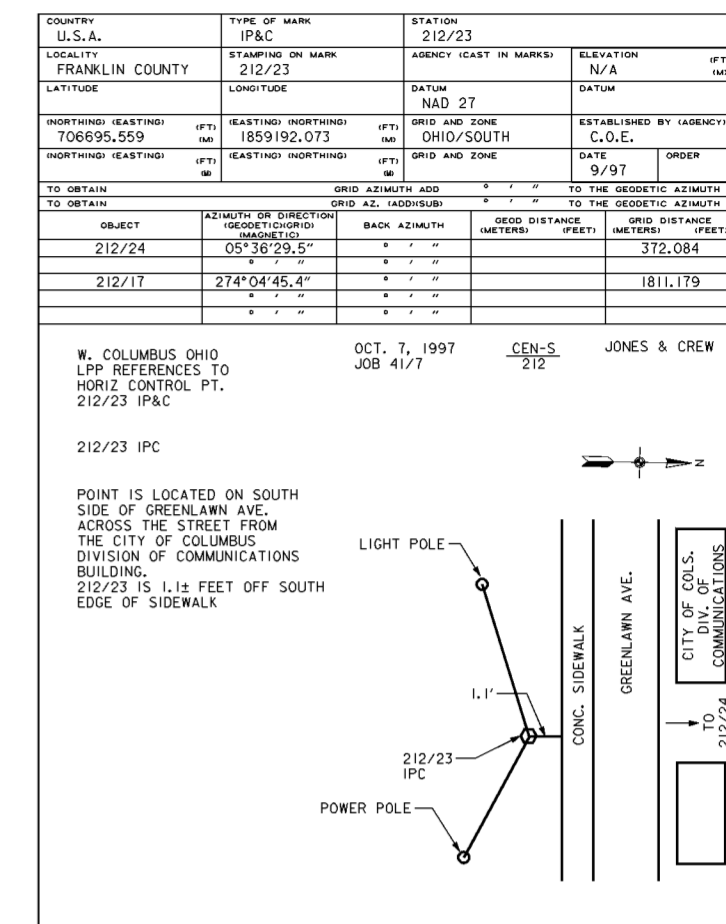
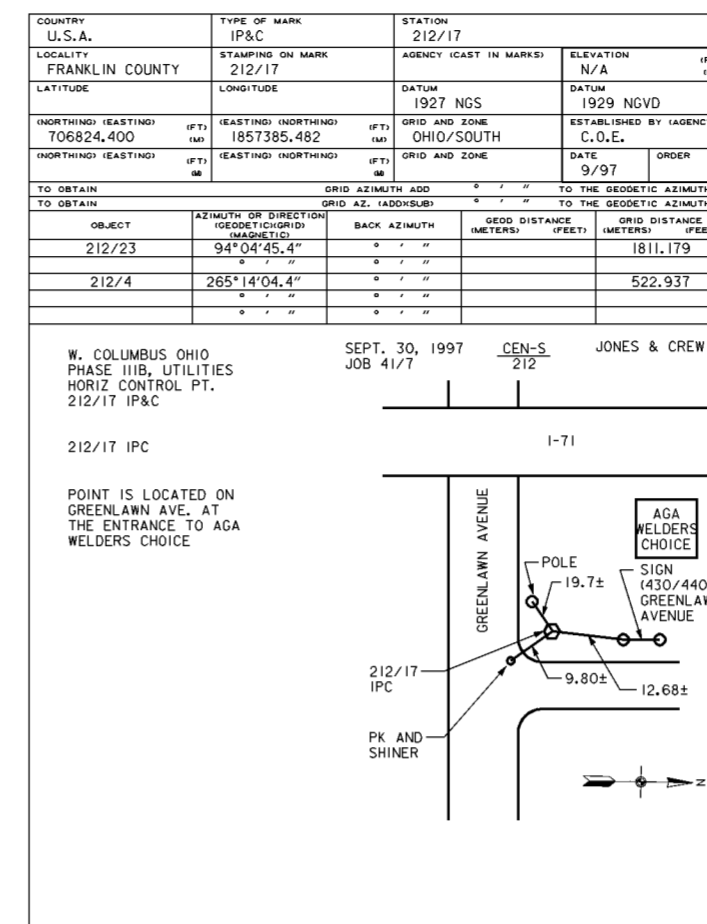
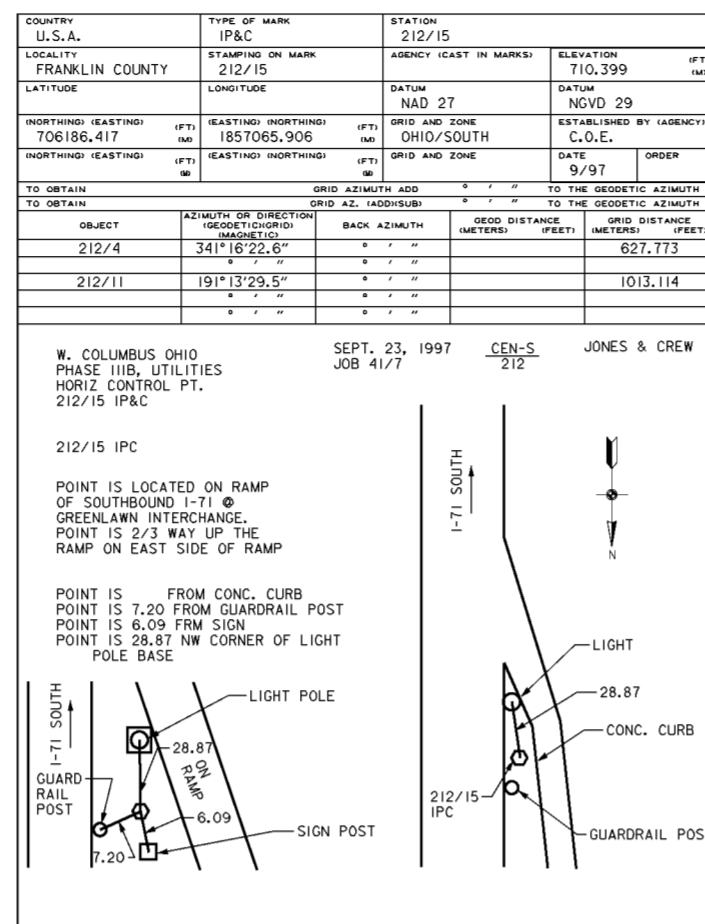
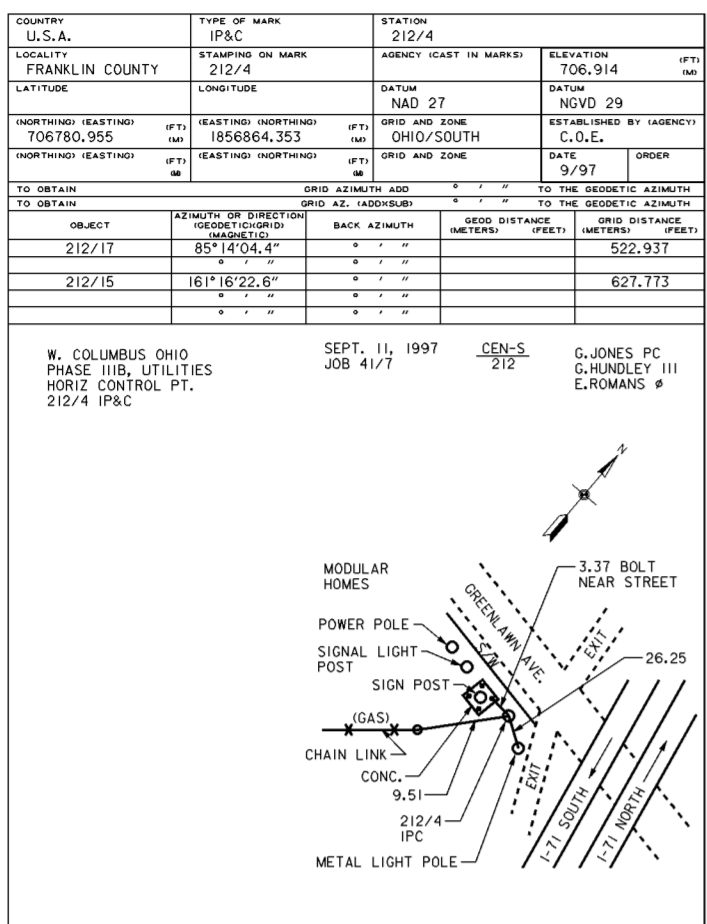


- NOTES**
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
 2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/5.

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

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, 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 IIIA RW MONUMENT PLAN (4 OF 4)	FILENAME: 00r1mp04.dgn PEN TABLE:	
Drawn by: T. MULLINS		Scale: AS SHOWN	Sheet reference number: 6/10
Checked by: R.ROMAN		Date: OCTOBER 1999	Drawing Code: 16-PWC-12-
Reviewed by:		Approved by:	Sheet 4 of 4



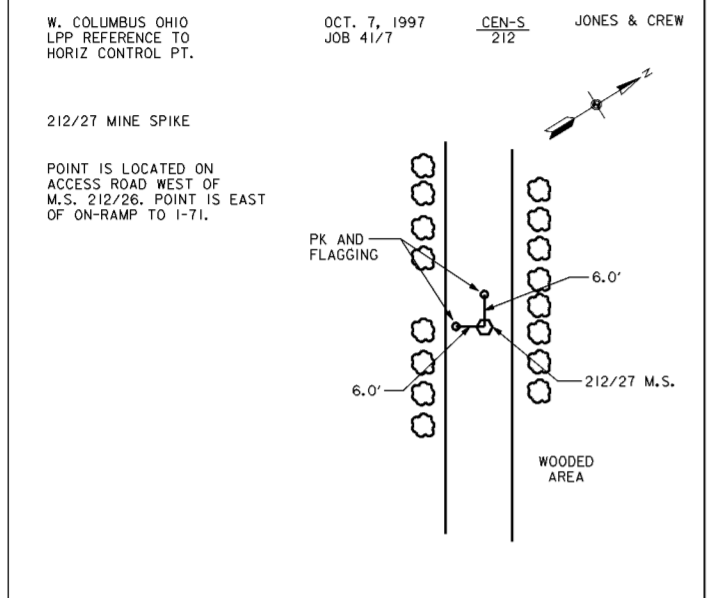
NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.

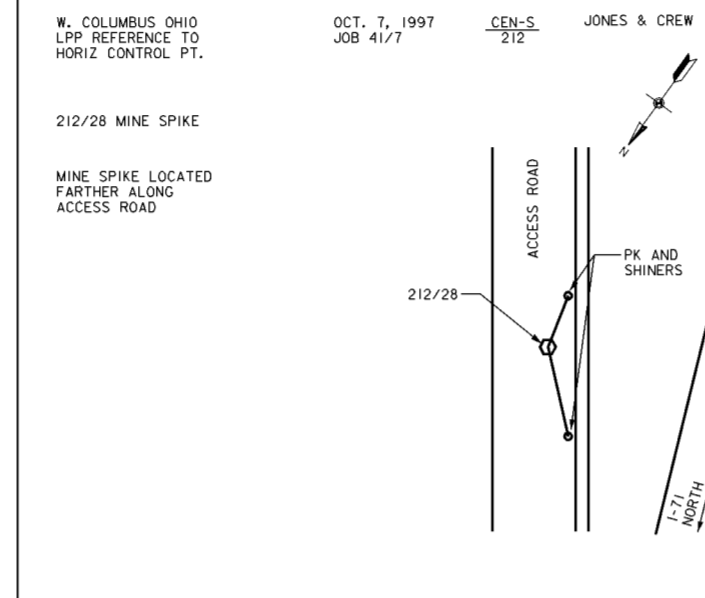
Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	COE	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by:	T. MULLINS	SURVEY	
Checked by:	P. CONROY	REFERENCES (1 OF 3)	
Reviewed by:	Scale: NONE	Sheet reference number: 1/1	FILENAME: 00aur01.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 1 of 3

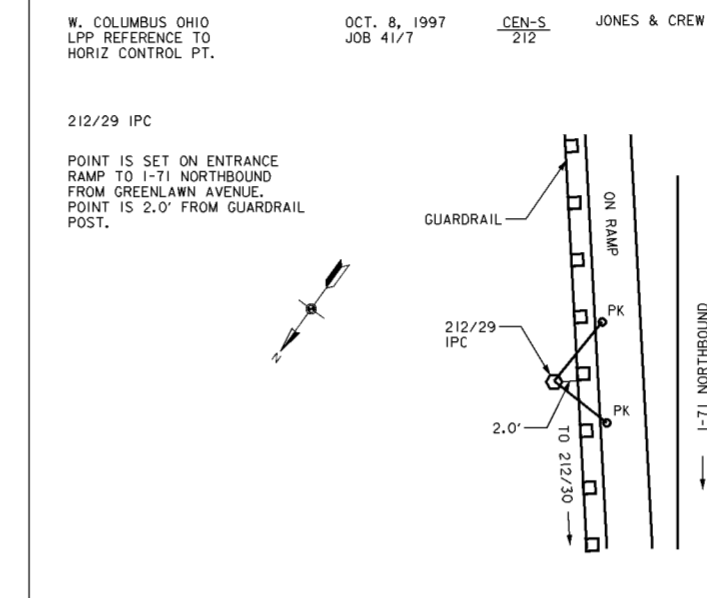
COUNTRY	TYPE OF MARK	STATION	AGENCY (CAST IN MARKS)	ELEVATION (FT)
U.S.A.	MINE SPIKE	212/27	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)	
FRANKLIN COUNTY	212/27	N/A	N/A	
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27		
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
707457.544	1857896.208	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	DATE	ORDER
			10/97	
TO OBTAIN GRID AZIMUTH ADD * * * TO THE GEODETIC AZIMUTH				
TO OBTAIN	GRID AZ. (ADDSUB)	* * *	TO THE GEODETIC AZIMUTH	
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
212/28	271°54'03.0"	* * *	766.872	
212/26	106°33'59.3"	* * *	344.197	



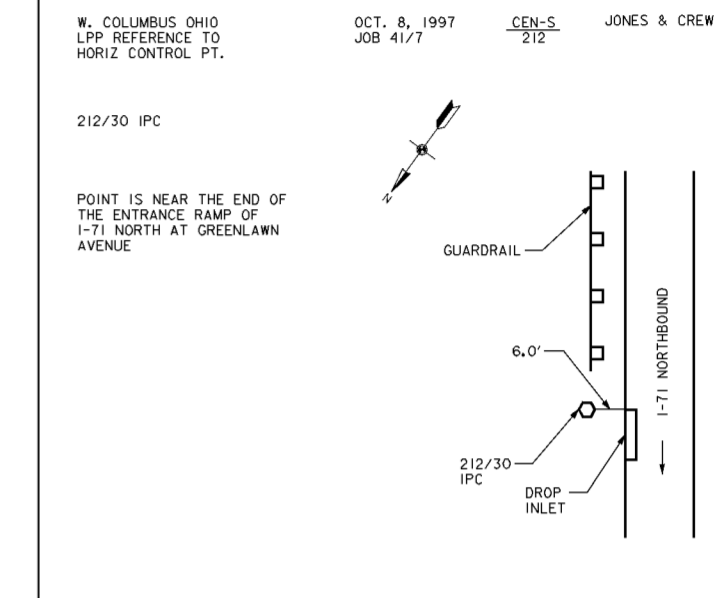
COUNTRY	TYPE OF MARK	STATION	AGENCY (CAST IN MARKS)	ELEVATION (FT)
U.S.A.	MINE SPIKE	212/28	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)	
FRANKLIN COUNTY	212/28	N/A	N/A	
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27		
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
707482.981	1857129.758	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	DATE	ORDER
			10/97	
TO OBTAIN GRID AZIMUTH ADD * * * TO THE GEODETIC AZIMUTH				
TO OBTAIN	GRID AZ. (ADDSUB)	* * *	TO THE GEODETIC AZIMUTH	
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
212/29	236°37'11.4"	* * *	275.117	
212/27	91°54'03.0"	* * *	766.872	



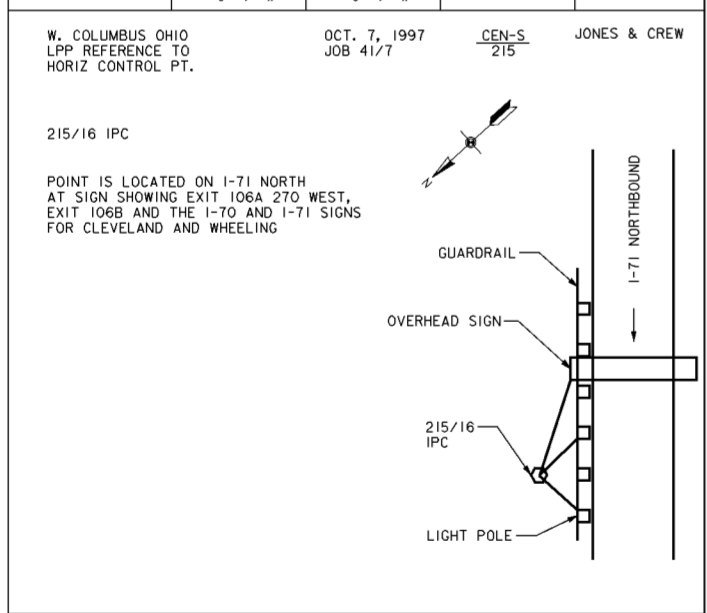
COUNTRY	TYPE OF MARK	STATION	AGENCY (CAST IN MARKS)	ELEVATION (FT)
U.S.A.	IP&C	212/29	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)	
FRANKLIN COUNTY	212/29	N/A	N/A	
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27		
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
707331.614	1856900.025	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	DATE	ORDER
			10/97	
TO OBTAIN GRID AZIMUTH ADD * * * TO THE GEODETIC AZIMUTH				
TO OBTAIN	GRID AZ. (ADDSUB)	* * *	TO THE GEODETIC AZIMUTH	
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
212/30	330°03'10.8"	* * *	522.099	
212/28	56°37'11.4"	* * *	275.117	



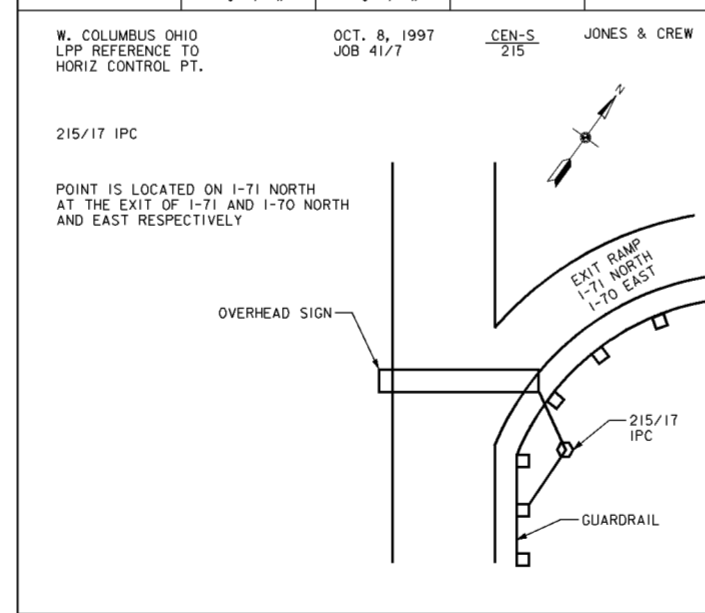
COUNTRY	TYPE OF MARK	STATION	AGENCY (CAST IN MARKS)	ELEVATION (FT)
U.S.A.	IP&C	212/30	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)	
FRANKLIN COUNTY	212/30	N/A	N/A	
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27		
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
707784.006	1856639.394	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	DATE	ORDER
			10/97	
TO OBTAIN GRID AZIMUTH ADD * * * TO THE GEODETIC AZIMUTH				
TO OBTAIN	GRID AZ. (ADDSUB)	* * *	TO THE GEODETIC AZIMUTH	
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
215/16	333°29'02.6"	* * *	941.613	
212/29	150°03'10.8"	* * *	522.099	



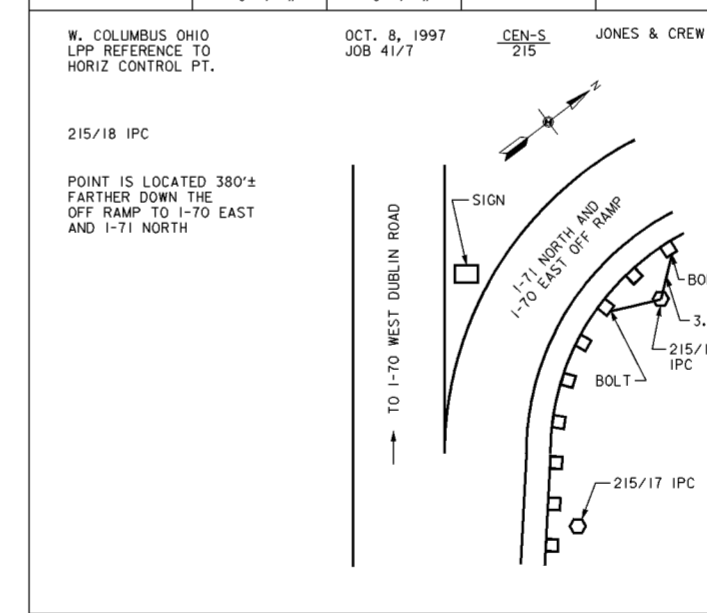
COUNTRY	TYPE OF MARK	STATION	AGENCY (CAST IN MARKS)	ELEVATION (FT)
U.S.A.	IP&C	215/16	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)	
FRANKLIN COUNTY	215/16	N/A	N/A	
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27		
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
708626.571	1856219.014	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	DATE	ORDER
			10/97	
TO OBTAIN GRID AZIMUTH ADD * * * TO THE GEODETIC AZIMUTH				
TO OBTAIN	GRID AZ. (ADDSUB)	* * *	TO THE GEODETIC AZIMUTH	
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
215/17	333°21'36.6"	* * *	942.684	
212/30	153°29'02.6"	* * *	941.613	



COUNTRY	TYPE OF MARK	STATION	AGENCY (CAST IN MARKS)	ELEVATION (FT)
U.S.A.	IP&C	215/17	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)	
FRANKLIN COUNTY	215/17	N/A	N/A	
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27		
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
709469.182	1855796.333	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	DATE	ORDER
			10/97	
TO OBTAIN GRID AZIMUTH ADD * * * TO THE GEODETIC AZIMUTH				
TO OBTAIN	GRID AZ. (ADDSUB)	* * *	TO THE GEODETIC AZIMUTH	
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
215/18	348°56'06.6"	* * *	385.787	
215/16	153°21'36.6"	* * *	942.684	



COUNTRY	TYPE OF MARK	STATION	AGENCY (CAST IN MARKS)	ELEVATION (FT)
U.S.A.	IP&C	215/18	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)	
FRANKLIN COUNTY	215/18	N/A	N/A	
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27		
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
709847.797	1855722.293	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	DATE	ORDER
			10/97	
TO OBTAIN GRID AZIMUTH ADD * * * TO THE GEODETIC AZIMUTH				
TO OBTAIN	GRID AZ. (ADDSUB)	* * *	TO THE GEODETIC AZIMUTH	
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
215/19	00°34'15.4"	* * *	878.821	
215/17	168°56'06.6"	* * *	385.787	



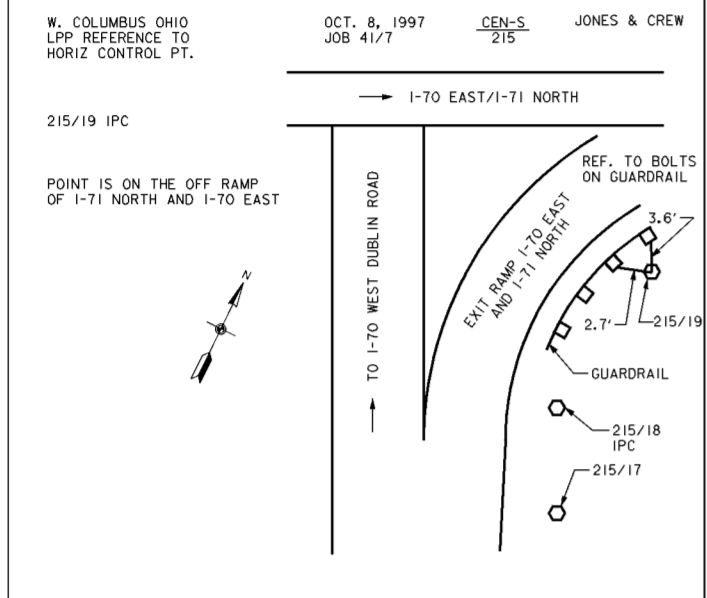
NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.

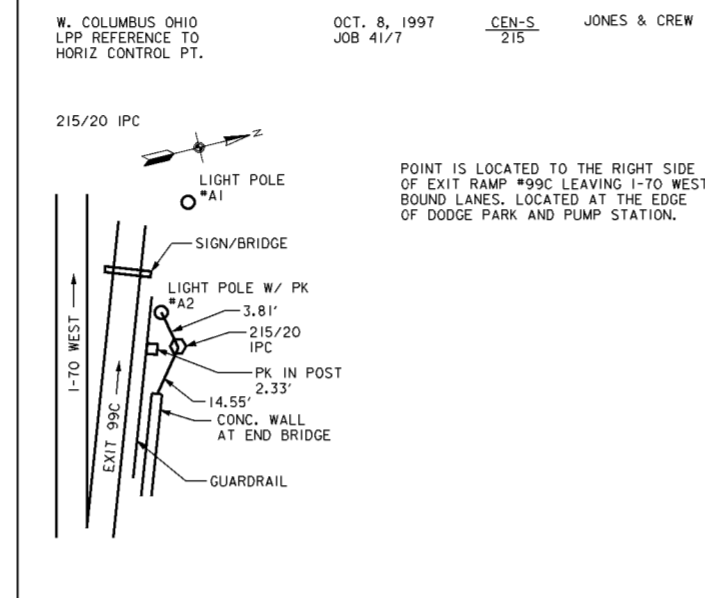
Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	COE	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by:	T.MULLINS	SURVEY REFERENCES (2 OF 3)	
Checked by:	P.CONROY		
Reviewed by:		Scale:	None
Approved by:		Date:	OCTOBER 1999
		Drawing Code:	16-PWC-12-
		Sheet reference number:	11/2
		FILENAME:	00aur02.dgn
		PIN TABLE:	
		Sheet	2 of 3

COUNTRY U.S.A.	TYPE OF MARK IP&C	STATION 215/19	
LOCALITY FRANKLIN COUNTY	STAMPING ON MARK 215/19	AGENCY (EAST IN MARKS) N/A	ELEVATION (FT) N/A
LATITUDE	LONGITUDE	DATUM NAD 27	DATUM
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE OHIO/SOUTH	ESTABLISHED BY (AGENCY) C.O.E.
710726.574	1855731.050		
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	DATE 10/97
			ORDER
TO OBTAIN			
OBJECT	AZIMUTH OR DIRECTION (DEGREES) (CHORD) (METERS)	BACK AZIMUTH	GRID DISTANCE (FEET)
215/20	15°48'56.9"		665.045
215/18	180°34'15.4"		878.821



COUNTRY U.S.A.	TYPE OF MARK IP&C	STATION 215/20	
LOCALITY FRANKLIN COUNTY	STAMPING ON MARK 215/20	AGENCY (EAST IN MARKS) N/A	ELEVATION (FT) N/A
LATITUDE	LONGITUDE	DATUM NAD 27	DATUM
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE OHIO/SOUTH	ESTABLISHED BY (AGENCY) C.O.E.
711366.442	1855912.305		
(NORTHING) (EASTING) (FT) (MM)	(EASTING) (NORTHING) (FT) (MM)	GRID AND ZONE	DATE 10/97
			ORDER
TO OBTAIN			
OBJECT	AZIMUTH OR DIRECTION (DEGREES) (CHORD) (METERS)	BACK AZIMUTH	GRID DISTANCE (FEET)
215/19	195°48'56.9"		665.045
17/12	32°08'06.4"		735.471



LEVELMAN : PETRUCCI/STROLL (KENC)	PROJECT NO. 59/9 MOD-1
DATE : OCT.-NOV. 1989	DESC. WEST COLUMBUS, OHIO - L.P.P.
BOOK NO. : CEN-S/AS SHOWN	SOUNDING/SECTIONS
COMPUTED BY : CORNWELL	(VERTICAL BASE-FOR FLOOD SURVEYS)
CHECKED BY : POPLIN	VERTICAL DATUM : 1929 NGS

T.B.M. : 11/19-1 ELEV. : 702.955 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN N. END OF GAS PUMP ISLAND OF CERTIFIED GAS STATION. AT POINT OF HARMON AVE. & ENIG ST. 400'± S. OF STIMMEL ROAD TOPO SHEET NO. :
T.B.M. : 11/19-2 ELEV. : 701.575 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN N.E. CORNER OF CONC. PAD OF STEEL LIGHT POLE 90'± S. OF CENTER LINE OF STIMMEL RD. 35'± W. OF DECKEBACH RD. EXTENDED 0'± W. OF W. EDGE PAVED PARKING LOT. TOPO SHEET NO. :
T.B.M. : 11/20-1 ELEV. : 720.482 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN CONC. WALK ON WEST SIDE OF FLAGPOLE. 100'± W. OF SCIOTO BLVD. & 12'± N. OF GREENLAWN AVE. AT BLDG. FOR CITY OF COLUMBUS RECREATION AND PARKS DEPT. TOPO SHEET NO. : 12
T.B.M. : 11/20-2 ELEV. : 709.128 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN S.W. CORNER OF CONC. PAD OF "UPPER DECK SPORTSBAR AND GRILL" SIGN 60'± OF CENTERLINE OF DECKEBACH AVE. 12'± N. OF GREENLAWN AVE. TOPO SHEET NO. :
T.B.M. : 11/22-1 ELEV. : 702.313 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN CONC. PAD OF MANHOLE 12'± N. OF EDGE OF STIMMEL RD. 80'± W. OF "G" ST. TOPO SHEET NO. :

LEVELMAN : PETRUCCI/STROLL (KENC)	PROJECT NO. 59/9 MOD-1
DATE : OCT.-NOV. 1989	DESC. WEST COLUMBUS, OHIO - L.P.P.
BOOK NO. : CEN-S/AS SHOWN	SOUNDING/SECTIONS
COMPUTED BY : CORNWELL	(VERTICAL BASE-FOR FLOOD SURVEYS)
CHECKED BY : POPLIN	VERTICAL DATUM : 1929 NGS

T.B.M. : 86/11 ELEV. : 705.961 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET AT NORTHWEST CORNER W. MOUND ST. & CYPRESS ST. AT ENT. TO 1082 MOUND ST. IN CONC. SIDEWALK AND S. OF BUILDING TOPO SHEET NO. :
T.B.M. : 86/12 ELEV. : 705.571 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN CONC. SIDEWALK AT S.E. CORNER W. MOUND ST. AND MT. CALVARY AVE. 7'± S. OF S. CURB OF MOUND ST. & 1'± E. OF E. CURB OF MT. CALVARY AVE. TOPO SHEET NO. :
T.B.M. : 86/12-1 ELEV. : 710.783 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET ON TOP OF N.E. CORNER OF CONC. PAD OF STEEL LIGHT POLE ON S.W. CORNER OF BUCHANAN DR. AND VAN BUREN DR. TOPO SHEET NO. :
T.B.M. : 86/12-2 ELEV. : 711.687 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET ON TOP OF S.W. CORNER OF CONC. PAD OF STEEL LIGHT POLE. 50'± E. OF INTERSECTION OF PIERCE DR. AND VAN BUREN DR. ON N. SIDE OF VAN BUREN DR. TOPO SHEET NO. :
T.B.M. : 86/13 ELEV. : 706.636 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET ON TOP OF S.W. CORNER OF CONC. PAD OF STEEL LIGHT POLE ON S.W. CORNER OF HARMON AVE. AND BUCHANAN DR. TOPO SHEET NO. :

LEVELMAN : PETRUCCI/STROLL (KENC)	PROJECT NO. 59/9 MOD-1
DATE : OCT.-NOV. 1989	DESC. WEST COLUMBUS, OHIO - L.P.P.
BOOK NO. : CEN-S/AS SHOWN	SOUNDING/SECTIONS
COMPUTED BY : CORNWELL	(VERTICAL BASE-FOR FLOOD SURVEYS)
CHECKED BY : POPLIN	VERTICAL DATUM : 1929 NGS

T.B.M. : 86/14 ELEV. : 714.266 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN S. SIDE CONC. DR. 100'± S. OF CENTERLINE OF GRIGGS AVE. 10'± E. OF E. EDGE OF HARMON AVE. NEAR 154 HARMON AVE. TOPO SHEET NO. :
T.B.M. : 86/14-1 ELEV. : 716.129 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN TOP OF S.W. CORNER OF CONC. VALVE PIT BOX 20'± E. OF HARMON AVE. 6'± S. OF EDGE OF PAVED DR. ENT. TO "CLARK FORKLIFT OF COLUMBUS" ACROSS FROM 849 HARMON AVE. TOPO SHEET NO. :
T.B.M. : 86/14-2 ELEV. : 708.916 DESC. : DISK QUAD. : COORD. : N. = E. =	LOCATION : DISK SET IN N. EDGE CONC. DR. AT 938 HARMON AVE. AT S. END CONC. BLOCK WALL 12'± E. OF EDGE OF HARMON AVE. AND 115'± N. OF CENTERLINE OF WHARTON AVE. TOPO SHEET NO. :
T.B.M. : 86/17 ELEV. : 704.188 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN E. END OF CONC. CURB AT N.E. CORNER OF GREENLAWN AVE. AND GREENFIELD DR. 30'± E. OF CENTERLINE OF GREENFIELD DR. NEAR ST. RITA'S HOME AT 880 GREENLAWN AVE. TOPO SHEET NO. :
T.B.M. : 86/19 ELEV. : 713.831 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN TOP OF CONC. CURB INLET PAD ON N.W. CORNER OF GREENFIELD DR. AND PAVED DR. TO PARKING LOT FOR APTS. 200'± S. OF CANNON BX PLACE TOPO SHEET NO. :

LEVELMAN : PETRUCCI/STROLL (KENC)	PROJECT NO. 59/9 MOD-1
DATE : OCT.-NOV. 1989	DESC. WEST COLUMBUS, OHIO - L.P.P.
BOOK NO. : CEN-S/AS SHOWN	SOUNDING/SECTIONS
COMPUTED BY : CORNWELL	(VERTICAL BASE-FOR FLOOD SURVEYS)
CHECKED BY : POPLIN	VERTICAL DATUM : 1929 NGS

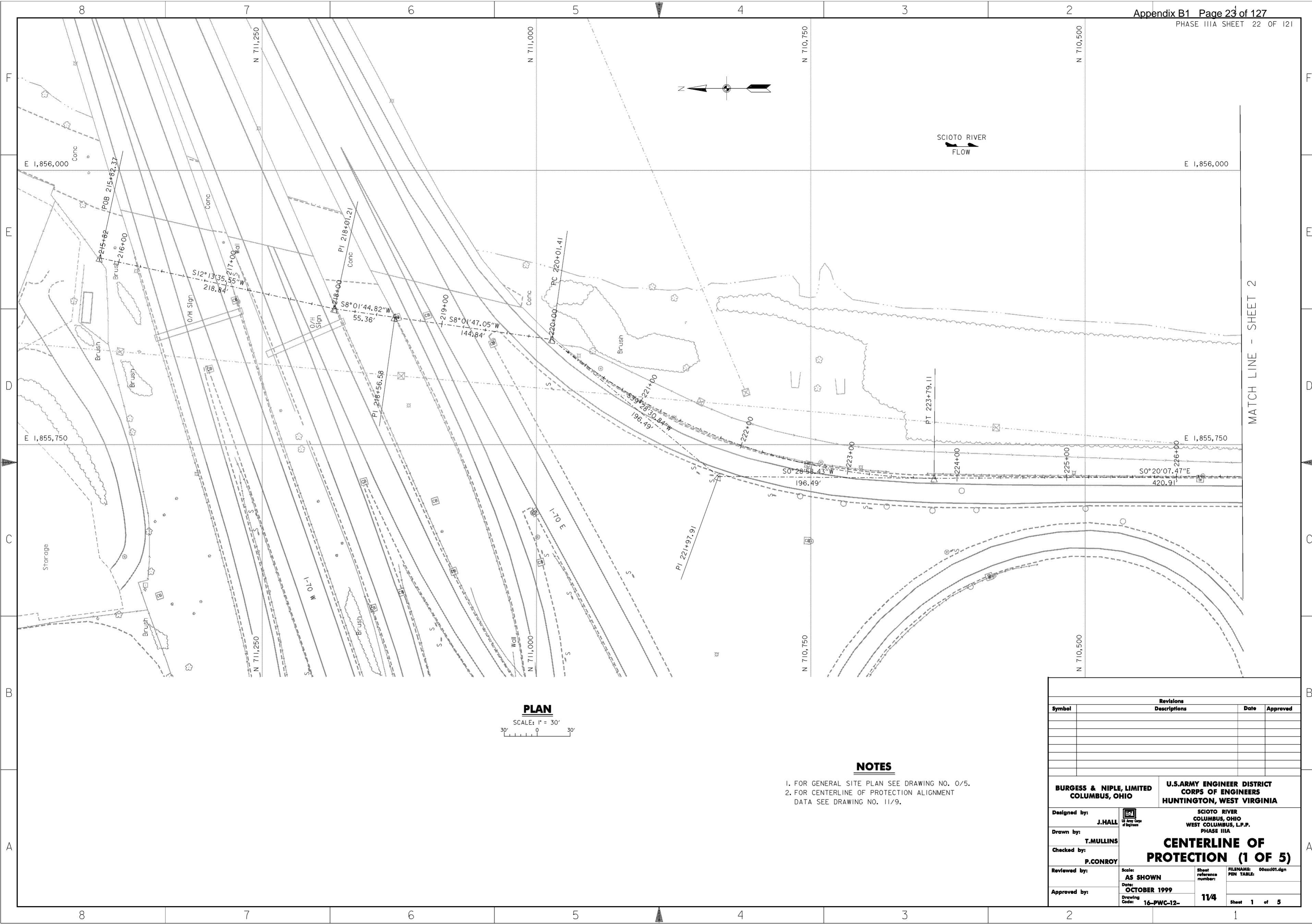
T.B.M. : 11/22-2 ELEV. : 713.098 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN TOP OF N.W. CORNER OF CONC. CURB AT "RAM" BUSINESS AT 1191 STIMMEL RD. 33'± S. OF STIMMEL RD. TOPO SHEET NO. :
T.B.M. : 11/23 ELEV. : 706.125 DESC. : DISK QUAD. : S.W. COLUMBUS COORD. : N. = E. =	LOCATION : DISK SET IN N.E. CORNER OF CONC. CURB AT "RAM" BUSINESS AT 1247 STIMMEL RD. 35'± S. OF STIMMEL RD. TOPO SHEET NO. :
T.B.M. : ELEV. : DESC. : QUAD. : COORD. : N. = E. =	LOCATION : TOPO SHEET NO. : 12
T.B.M. : ELEV. : DESC. : QUAD. : COORD. : N. = E. =	LOCATION : TOPO SHEET NO. : 12
T.B.M. : ELEV. : DESC. : QUAD. : COORD. : N. = E. =	LOCATION : TOPO SHEET NO. : 12

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: COE	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T.MULLINS	SURVEY
Checked by: P.CONROY	REFERENCES (3 OF 3)
Reviewed by:	Scale: NONE
Approved by:	Date: OCTOBER 1999
	Drawing Code: 16-PWC-12-
	Sheet reference number: 11/3
	FILENAME: 00aur03.dgn
	PIN TABLE:
	Sheet 3 of 3



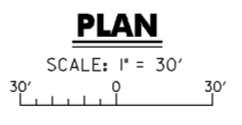
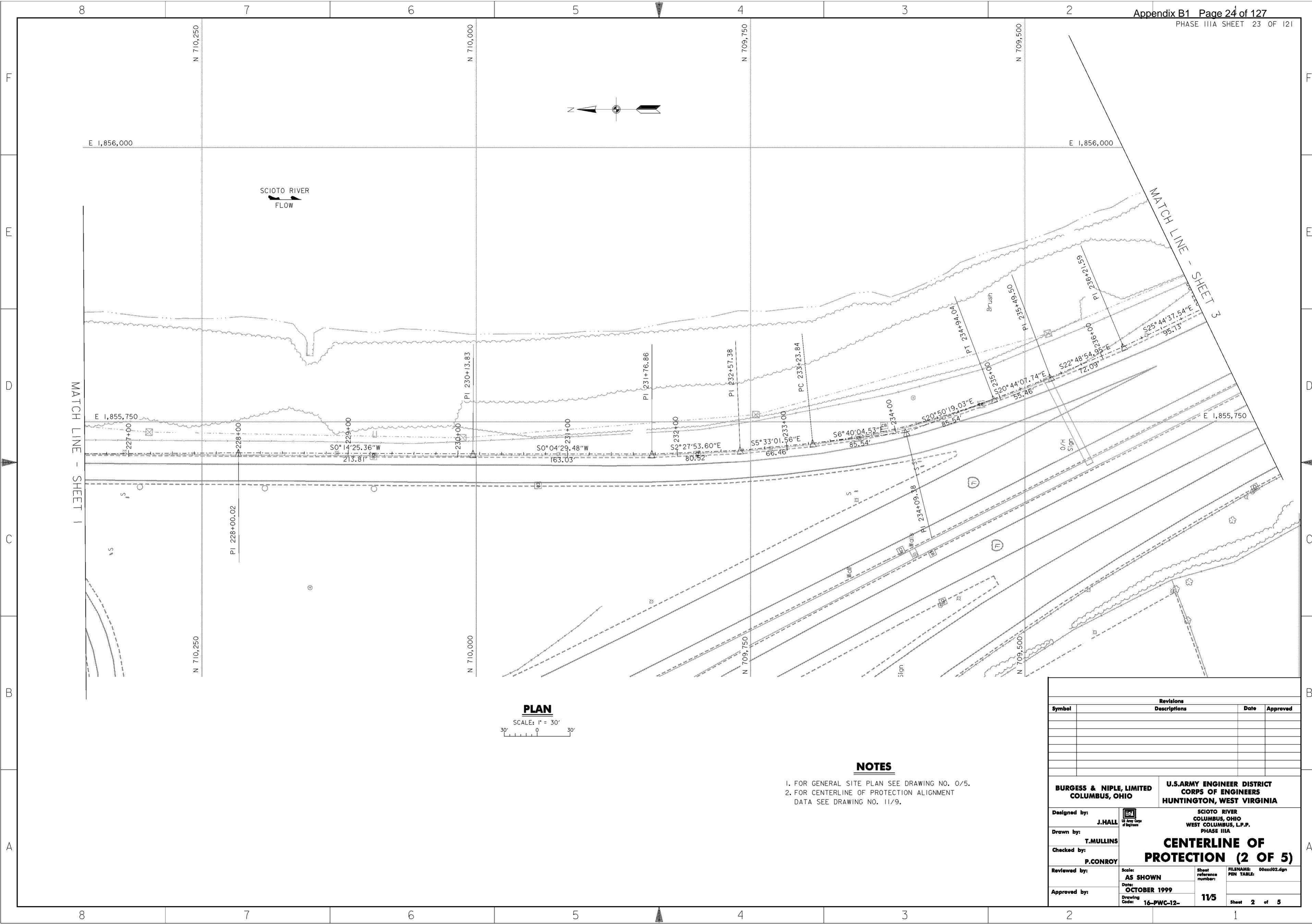
PLAN
 SCALE: 1" = 30'

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NO. 11/9.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J. HALL	<p align="center">CENTERLINE OF PROTECTION (1 OF 5)</p> FILENAME: 00axd01.dgn PEN TABLE:
Drawn by: T. MULLINS	
Checked by: P. CONROY	
Reviewed by: AS SHOWN	
Approved by: OCTOBER 1999	
Scale: AS SHOWN	Sheet reference number: 11/4
Drawing Code: 16-PWC-12-	Sheet 1 of 5

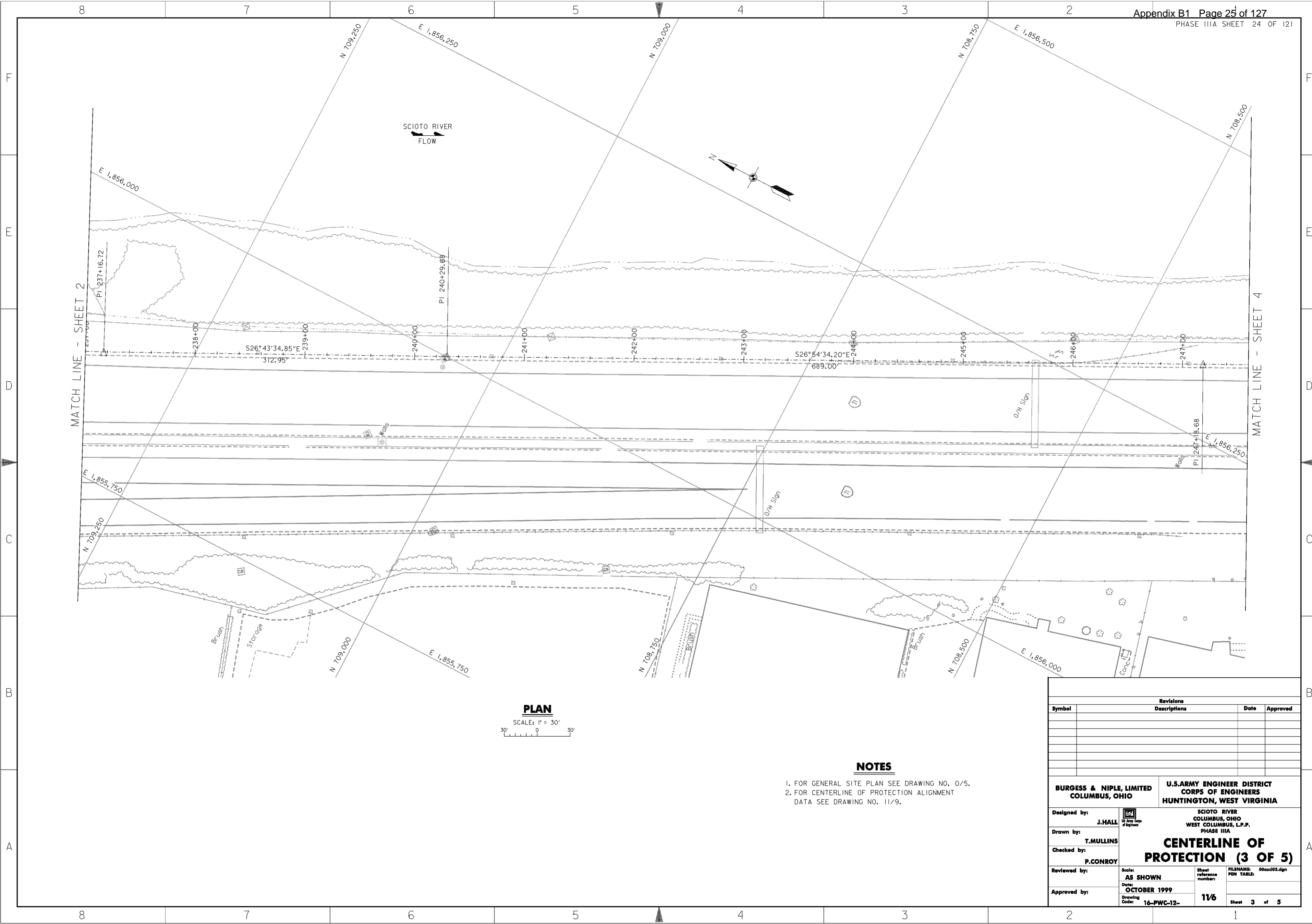


- NOTES**
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
 2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NO. 11/9.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		CENTERLINE OF PROTECTION (2 OF 5)	
Designed by: J. HALL		Drawn by: T. MULLINS	FILENAME: 00axd02.dgn SHEET: 2 of 5
Checked by: P. CONROY			
Reviewed by: AS SHOWN			
Date: OCTOBER 1999			
Drawing Code: 16-PWC-12-			

WORK AS CONSTRUCTED



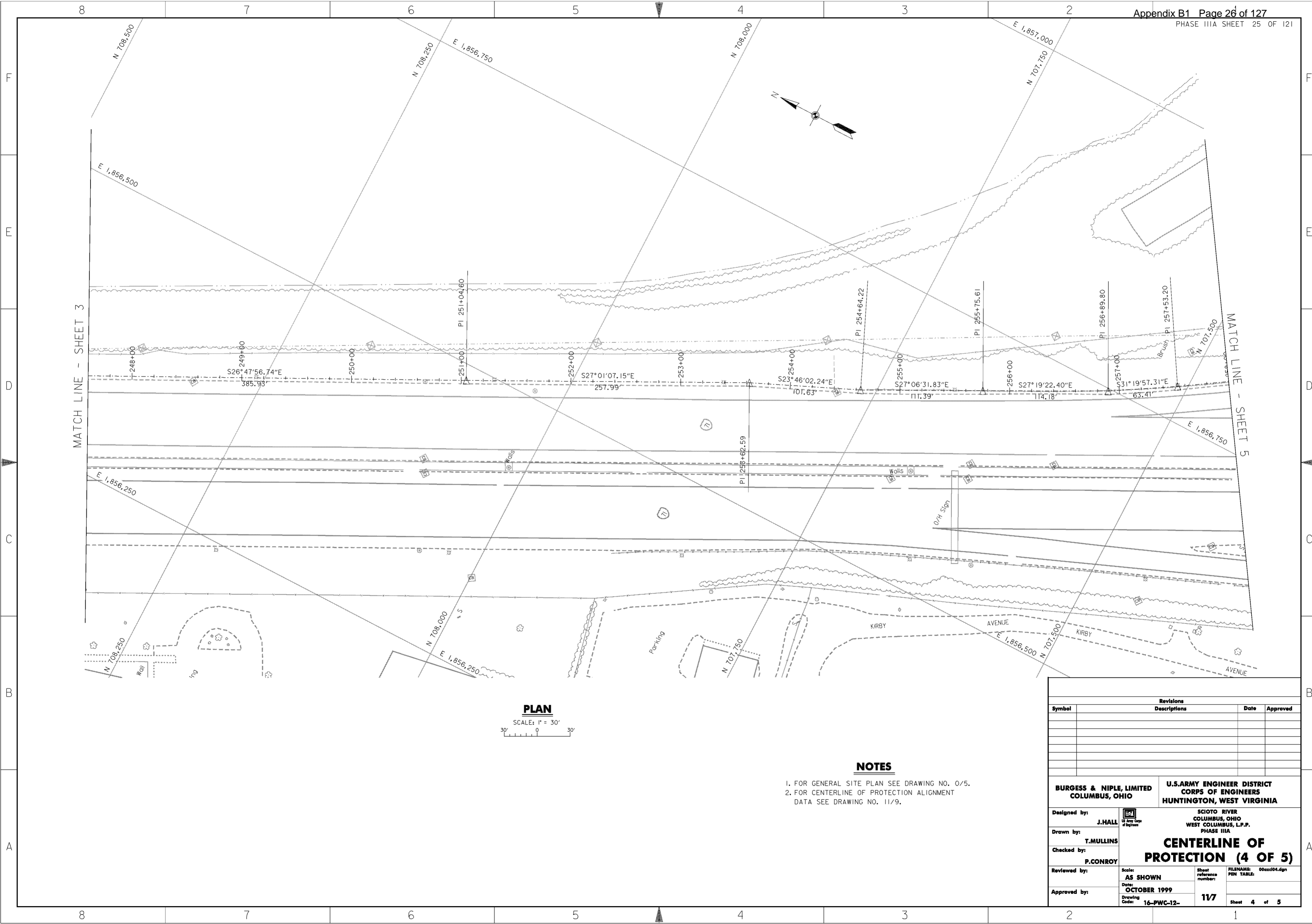
PLAN
 SCALE: 1" = 30'

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NO. 11/9.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Designed by: J. HALL	<p align="center">CENTERLINE OF PROTECTION (3 OF 5)</p> FILENAME: 00axd03.dgn PIN TABLE:		
Drawn by: T. MULLINS			
Checked by: P. CONROY			
Reviewed by:			
Approved by:	Scale: AS SHOWN	Sheet reference number: 11/6	Drawing Code: 16-PWC-12-



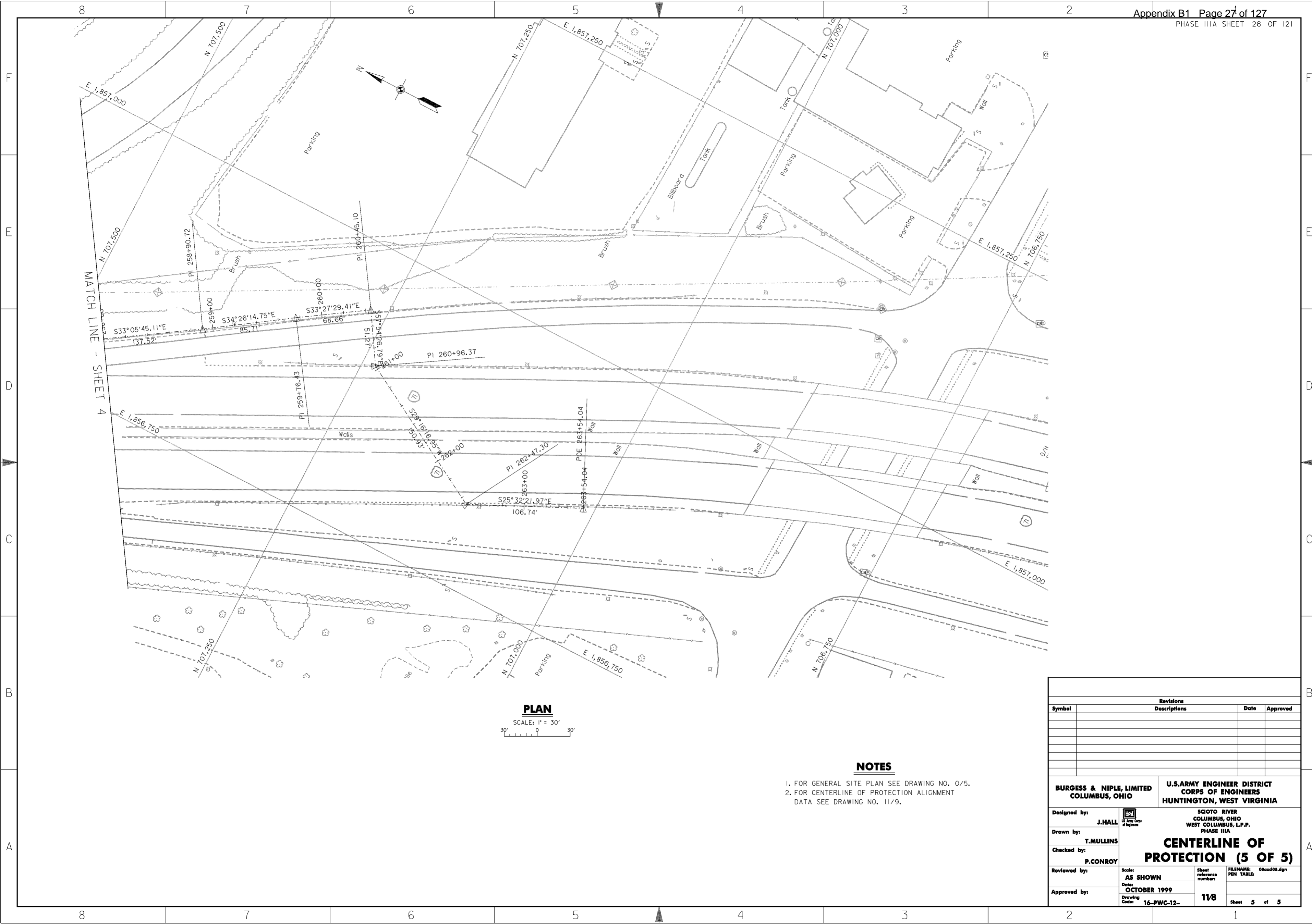
PLAN
 SCALE: 1" = 30'

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NO. 11/9.

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	<p align="center">CENTERLINE OF PROTECTION (4 OF 5)</p> Scale: AS SHOWN Date: OCTOBER 1999 Drawing Code: 16-PWC-12-
Drawn by: T. MULLINS	
Checked by: P. CONROY	
Reviewed by: (blank)	
Approved by: (blank)	Sheet reference number: 11/7
FILENAME: 00axd04.dgn PIN TABLE: Sheet 4 of 5	



PLAN
 SCALE: 1" = 30'

NOTES

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/5.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NO. 11/9.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		CENTERLINE OF PROTECTION (5 OF 5)	
Designed by: J. HALL	 U.S. Army Corps of Engineers	Drawn by: T. MULLINS	FILENAME: 00ax03.dgn PIN TABLE:
Checked by: P. CONROY		Reviewed by: AS SHOWN	
Approved by:		Date: OCTOBER 1999	
Drawing Code: 16-PWC-12-		Sheet reference number: 11/8	
Sheet 5 of 5		Sheet 5 of 5	

HORIZONTAL ALIGNMENT DATA FOR CENTERLINE OF PROTECTION

Element	STATION	NORTH(Y)	EAST(X)
Element: LINEAR			
POB	215+82.37	711398.036	1855919.978
PI	218+01.21	711184.157	1855873.632
Tangent Direction:	S 12°13'35.55" W		
Tangent Length:	218.843		
Element: LINEAR			
PI	218+01.21	711184.157	1855873.632
PI	218+56.58	711129.336	1855865.899
Tangent Direction:	S 8°01'44.82" W		
Tangent Length:	55.364		
Element: LINEAR			
PI	218+56.58	711129.336	1855865.899
PC	220+01.41	710985.918	1855845.667
Tangent Direction:	S 8°01'47.05" W		
Tangent Length:	144.838		
Element: CIRCULAR CURVE			
PC	220+01.41	710985.918	1855845.667
PI	221+97.91	710834.247	1855720.749
CC	710633.086	1856274.064	
PT	223+79.11	710637.763	1855719.093
Curve Radius:	-554.991		
Curve Length:	377.696		
Total Central Angle:	38°59'32.41"		
1st Subtangent Distance:	196.491		
2nd Subtangent Distance:	196.491		
Element: LINEAR			
PT	223+79.11	710637.763	1855719.093
PI	228+00.02	710216.857	1855721.557
Tangent Direction:	S 0°20'07.47" E		
Tangent Length:	420.913		
Element: LINEAR			
PI	228+00.02	710216.857	1855721.557
PI	230+13.83	710003.053	1855720.660
Tangent Direction:	S 0°14'25.36" W		
Tangent Length:	213.806		
Element: LINEAR			
PI	230+13.83	710003.053	1855720.660
PI	231+76.86	709840.022	1855720.447
Tangent Direction:	S 0°04'29.48" W		
Tangent Length:	163.031		
Element: LINEAR			
PI	231+76.86	709840.022	1855720.447
PI	232+57.38	709759.575	1855723.910
Tangent Direction:	S 2°27'53.60" E		
Tangent Length:	80.522		
Element: LINEAR			
PI	232+57.38	709759.575	1855723.910
PC	233+23.84	709693.428	1855730.338
Tangent Direction:	S 5°33'01.56" E		
Tangent Length:	66.459		
Element: CIRCULAR CURVE			
PC	233+23.84	709693.428	1855730.338
PI	234+09.38	709608.469	1855740.270
CC	709773.335	1856413.854	
PT	234+94.04	709528.527	1855770.699
Curve Radius:	-688.171		
Curve Length:	170.202		
Total Central Angle:	14°10'14.50"		
1st Subtangent Distance:	85.537		
2nd Subtangent Distance:	85.537		
Element: LINEAR			
PT	234+94.04	709528.527	1855770.699
PI	235+49.50	709476.659	1855790.335
Tangent Direction:	S 20°44'07.74" E		
Tangent Length:	55.460		
Element: LINEAR			
PI	235+49.50	709476.659	1855790.335
PI	236+21.59	709410.211	1855818.288
Tangent Direction:	S 22°48'54.95" E		
Tangent Length:	72.088		


Element: LINEAR	PI	236+21.59	709410.211	1855818.288
	PI	237+16.72	709324.524	1855859.607
Tangent Direction:	S 25°44'37.54" E			
Tangent Length:	95.129			
Element: LINEAR				
PI	237+16.72	709324.524	1855859.607	
PI	240+29.68	709045.004	1856000.352	
Tangent Direction:	S 26°43'34.85" E			
Tangent Length:	312.955			
Element: LINEAR				
PI	240+29.68	709045.004	1856000.352	
PI	247+18.68	708430.604	1856312.183	
Tangent Direction:	S 26°54'34.20" E			
Tangent Length:	689.004			
Element: LINEAR				
PI	247+18.68	708430.604	1856312.183	
PI	251+04.60	708086.129	1856486.183	
Tangent Direction:	S 26°47'56.74" E			
Tangent Length:	385.926			
Element: LINEAR				
PI	251+04.60	708086.129	1856486.183	
PI	253+62.59	707856.298	1856603.382	
Tangent Direction:	S 27°01'07.15" E			
Tangent Length:	257.988			
Element: LINEAR				
PI	253+62.59	707856.298	1856603.382	
PI	254+64.22	707763.290	1856644.340	
Tangent Direction:	S 23°46'02.24" E			
Tangent Length:	101.627			
Element: LINEAR				
PI	254+64.22	707763.290	1856644.340	
PI	255+75.61	707664.134	1856695.100	
Tangent Direction:	S 27°06'31.83" E			
Tangent Length:	111.393			
Element: LINEAR				
PI	255+75.61	707664.134	1856695.100	
PI	256+89.80	707562.689	1856747.511	
Tangent Direction:	S 27°19'22.40" E			
Tangent Length:	114.184			
Element: LINEAR				
PI	256+89.80	707562.689	1856747.511	
PI	257+53.20	707508.529	1856780.483	
Tangent Direction:	S 31°19'57.31" E			
Tangent Length:	63.407			
Element: LINEAR				
PI	257+53.20	707508.529	1856780.483	
PI	258+90.72	707393.323	1856855.573	
Tangent Direction:	S 33°05'45.11" E			
Tangent Length:	137.517			
Element: LINEAR				
PI	258+90.72	707393.323	1856855.573	
PI	259+76.43	707322.632	1856904.044	
Tangent Direction:	S 34°26'14.75" E			
Tangent Length:	85.713			
Element: LINEAR				
PI	259+76.43	707322.632	1856904.044	
PI	260+45.10	707265.347	1856941.900	
Tangent Direction:	S 33°27'29.41" E			
Tangent Length:	68.663			
Element: LINEAR				
PI	260+45.10	707265.347	1856941.900	
PI	260+96.37	707238.105	1856898.460	
Tangent Direction:	S 57°54'26.79" W			
Tangent Length:	51.275			

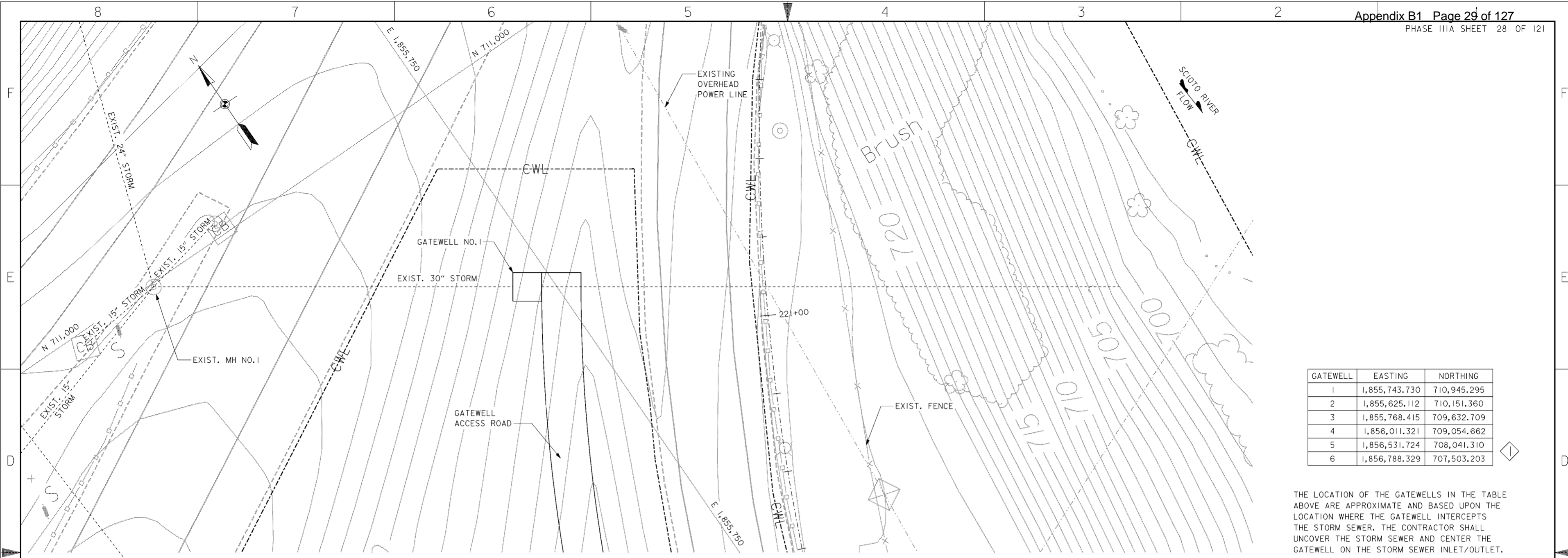
Element: LINEAR	PI	260+96.37	707238.105	1856898.460
	PI	262+47.30	707106.448	1856824.664
Tangent Direction:	S 29°16'16.95" W			
Tangent Length:	150.929			
Element: LINEAR				
PI	262+47.30	707106.448	1856824.664	
POE	263+54.04	707010.142	1856870.681	
Tangent Direction:	S 25°32'21.97" E			
Tangent Length:	106.735			

NOTES

1. FOR SITE PLAN SEE DRAWING NO. 0/5.
2. FOR CENTERLINE OF PROTECTION PLAN SEE DRAWING NOS. 11/4 THRU 11/8.

Revisions			
Symbol	Descriptions	Date	Approved

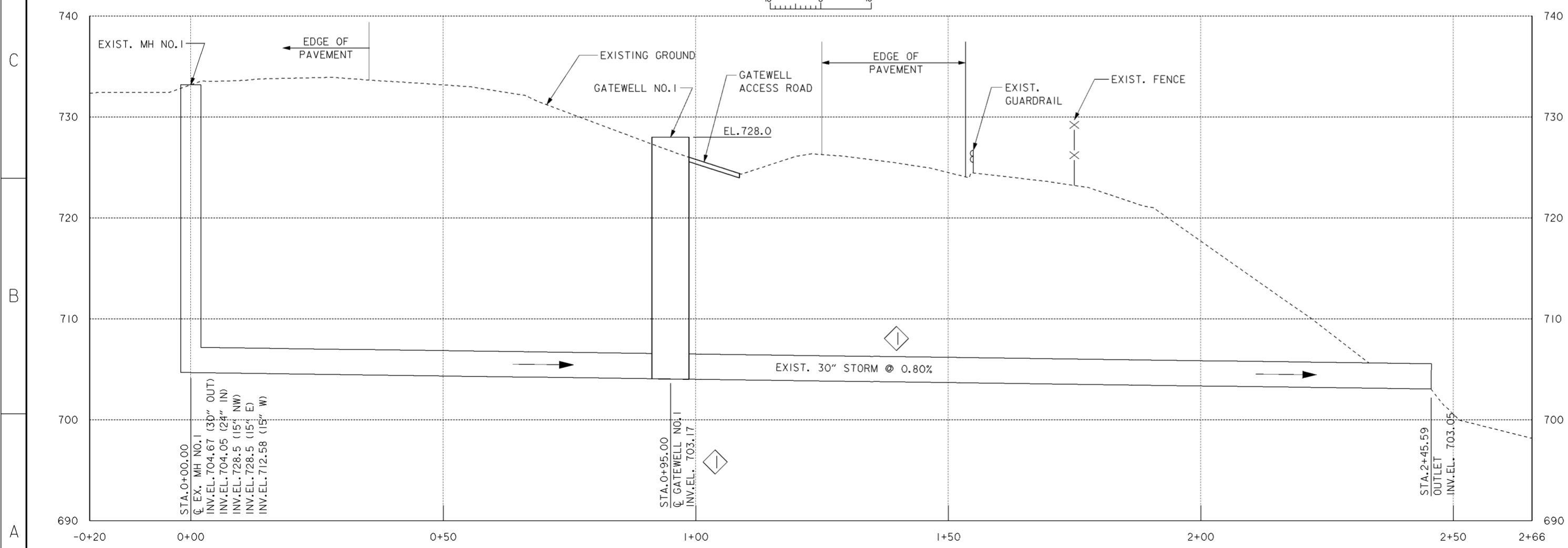
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J. HALL		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA HORIZONTAL ALIGNMENT	
Drawn by: T. MULLINS			
Checked by: P. CONROY			
Reviewed by:			
Approved by:			
Scale: NONE	Sheet reference numbers: 11/9	FILENAME: 00azm01.dgn	PIN TABLE:
Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 1 of 1	



GATEWELL	EASTING	NORTHING
1	1,855,743.730	710,945.295
2	1,855,625.112	710,151.360
3	1,855,768.415	709,632.709
4	1,856,011.321	709,054.662
5	1,856,531.724	708,041.310
6	1,856,788.329	707,503.203

THE LOCATION OF THE GATEWELLS IN THE TABLE ABOVE ARE APPROXIMATE AND BASED UPON THE LOCATION WHERE THE GATEWELL INTERCEPTS THE STORM SEWER. THE CONTRACTOR SHALL UNCOVER THE STORM SEWER AND CENTER THE GATEWELL ON THE STORM SEWER INLET/OUTLET.

PLAN
 SCALE: 1" = 10'



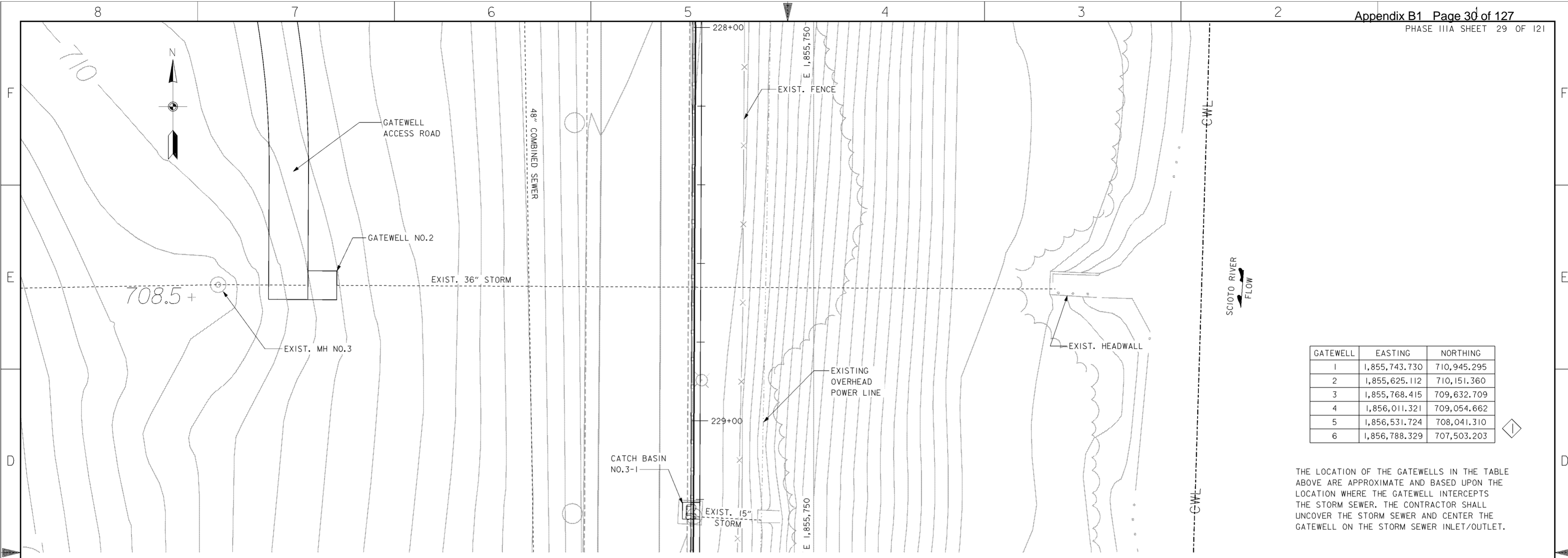
PROFILE
 SCALE IN FEET

NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL GATEWELL PLAN AND DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
3. FOR GATEWELL REINFORCING STEEL SEE DRAWING NO. 15/9.
4. REMOVE DISTURBED STORM SEWER PIPE TO NEAREST JOINT AND PROVIDE NEW CONNECTIONS TO THE GATEWELL.
5. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO.15/8.
6. FOR GATEWELL NO.1 SHORING SEE DRAWING NO.20.3/4.
7. FOR ACCESS ROAD SEE DRAWING NO.20.2/2.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED - PHASE IIIA NORTH	4/01	P.O.C.

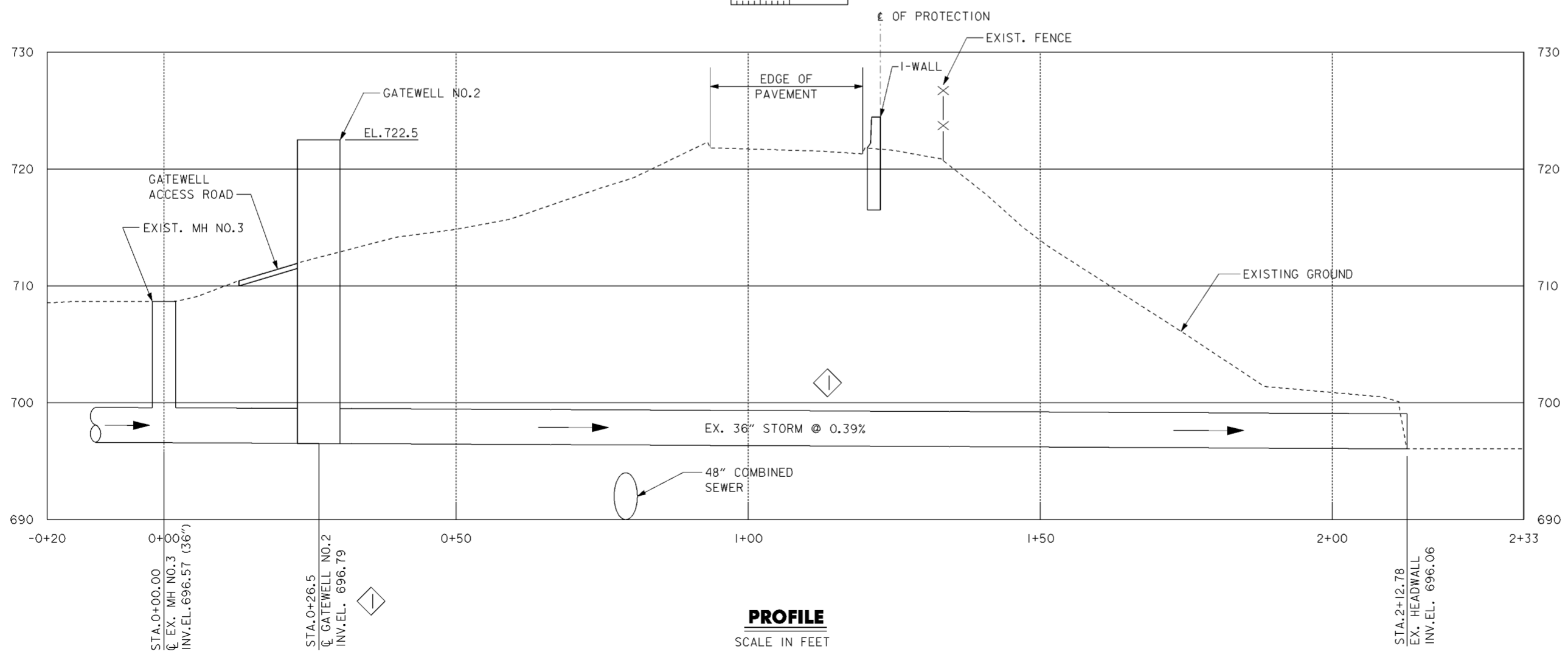
BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P.CONROY	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T.MULLINS	GATEWELL NO.1 PLAN AND PROFILE
Checked by: R.ROMAN	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-
	Sheet reference number: 15/1
	FILENAME: a06app01.dgn
	PIN TABLE:
	Sheet 1 of 1



GATEWELL	EASTING	NORTHING
1	1,855,743.730	710,945.295
2	1,855,625.112	710,151.360
3	1,855,768.415	709,632.709
4	1,856,011.321	709,054.662
5	1,856,531.724	708,041.310
6	1,856,788.329	707,503.203

THE LOCATION OF THE GATEWELLS IN THE TABLE ABOVE ARE APPROXIMATE AND BASED UPON THE LOCATION WHERE THE GATEWELL INTERCEPTS THE STORM SEWER. THE CONTRACTOR SHALL UNCOVER THE STORM SEWER AND CENTER THE GATEWELL ON THE STORM SEWER INLET/OUTLET.

PLAN
 SCALE: 1" = 10'



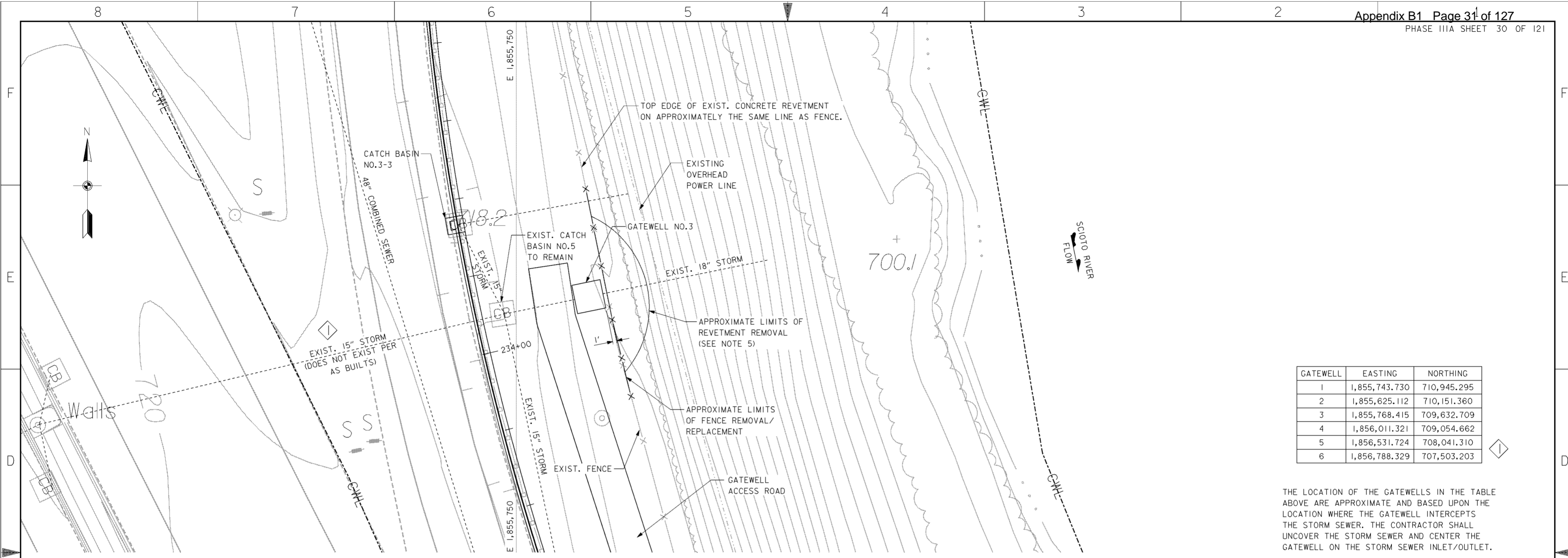
PROFILE
 SCALE IN FEET

NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL GATEWELL PLAN AND DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
3. FOR GATEWELL REINFORCING STEEL SEE DRAWING NO. 15/9.
4. REMOVE DISTURBED STORM SEWER PIPE TO NEAREST JOINT AND PROVIDE NEW CONNECTIONS TO THE GATEWELL.
5. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 15/8.
6. FOR GATEWELL ACCESS ROAD SEE DRAWING NO. 20.2/2.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED - PHASE IIIA NORTH	4/01	P.O.C.

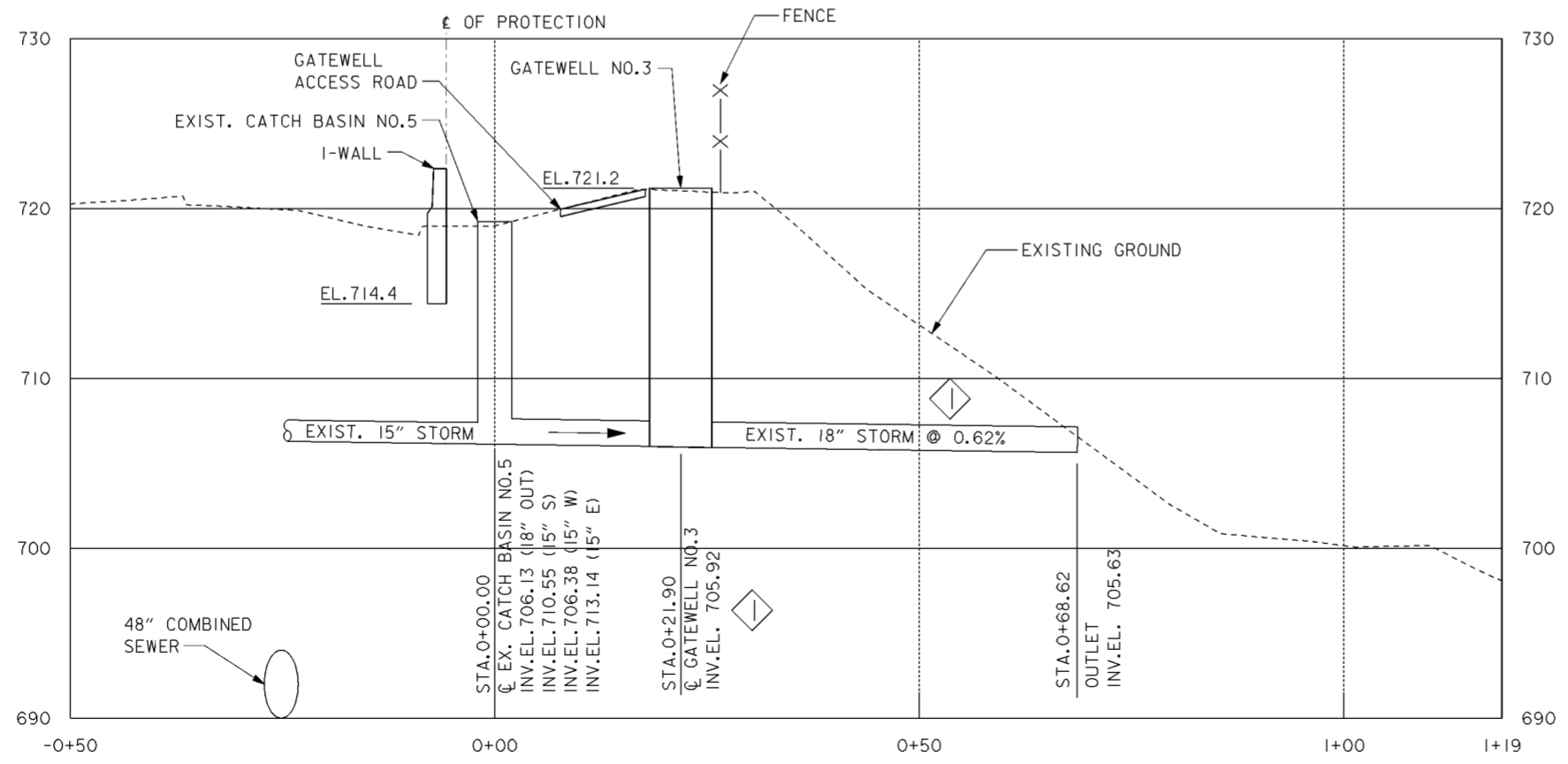
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P. CONROY	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	GATEWELL NO. 2 PLAN AND PROFILE
Checked by: R. ROMAN	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-
	Sheet reference number: 152
	FILENAME: PIN TABLE: a0d6pp02.dgn
	Sheet 1 of 1



GATEWELL	EASTING	NORTHING
1	1,855,743.730	710,945.295
2	1,855,625.112	710,151.360
3	1,856,768.415	709,632.709
4	1,856,011.321	709,054.662
5	1,856,531.724	708,041.310
6	1,856,788.329	707,503.203

THE LOCATION OF THE GATEWELLS IN THE TABLE ABOVE ARE APPROXIMATE AND BASED UPON THE LOCATION WHERE THE GATEWELL INTERCEPTS THE STORM SEWER. THE CONTRACTOR SHALL UNCOVER THE STORM SEWER AND CENTER THE GATEWELL ON THE STORM SEWER INLET/OUTLET.

PLAN
 SCALE: 1" = 10'



PROFILE
 SCALE IN FEET

NOTES

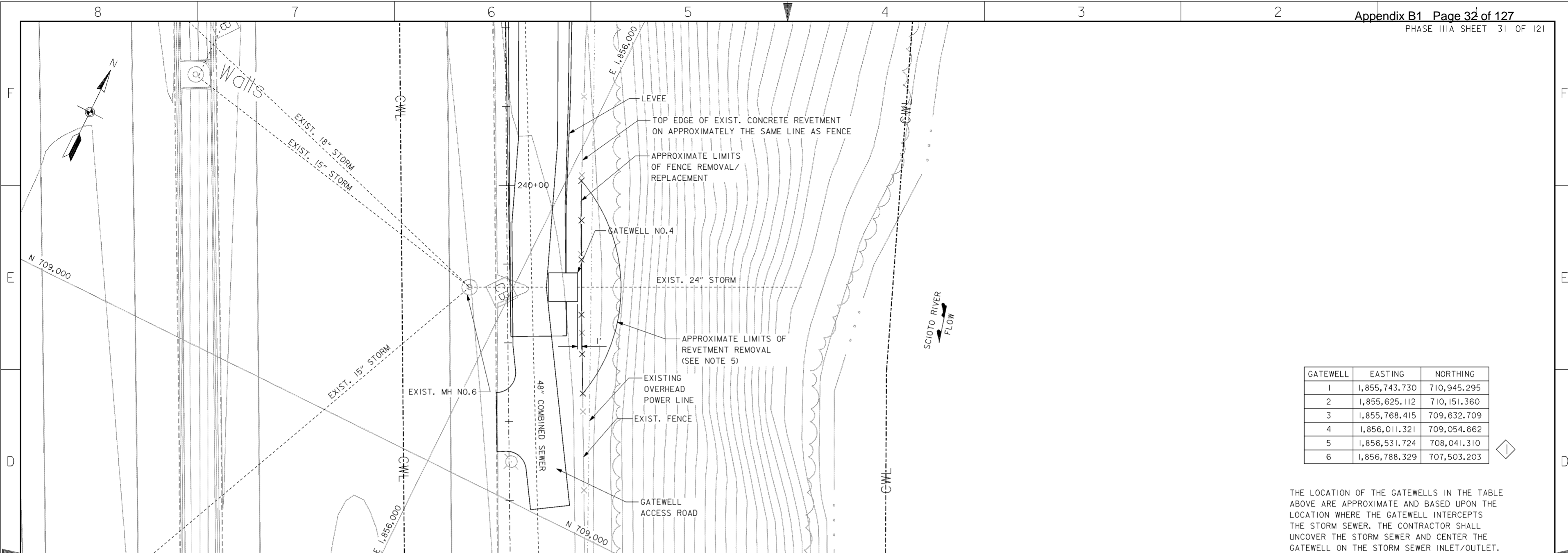
- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
- FOR TYPICAL GATEWELL PLAN AND DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
- FOR GATEWELL REINFORCING STEEL SEE DRAWING NO. 15/9.
- REMOVE DISTURBED STORM SEWER PIPE TO NEAREST JOINT AND PROVIDE NEW CONNECTIONS TO THE GATEWELL.
- SAWCUT AND REMOVE EXISTING REVETMENT TO ALLOW FOR CONSTRUCTION OF GATEWELL. REGRADE AND SEED DISTURBED AREAS.
- FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 15/8.

Revisions			
Symbol	Descriptions	Date	Approved

REVISED AS CONSTRUCTED - PHASE IIIA NORTH 4/01 P.O.C.

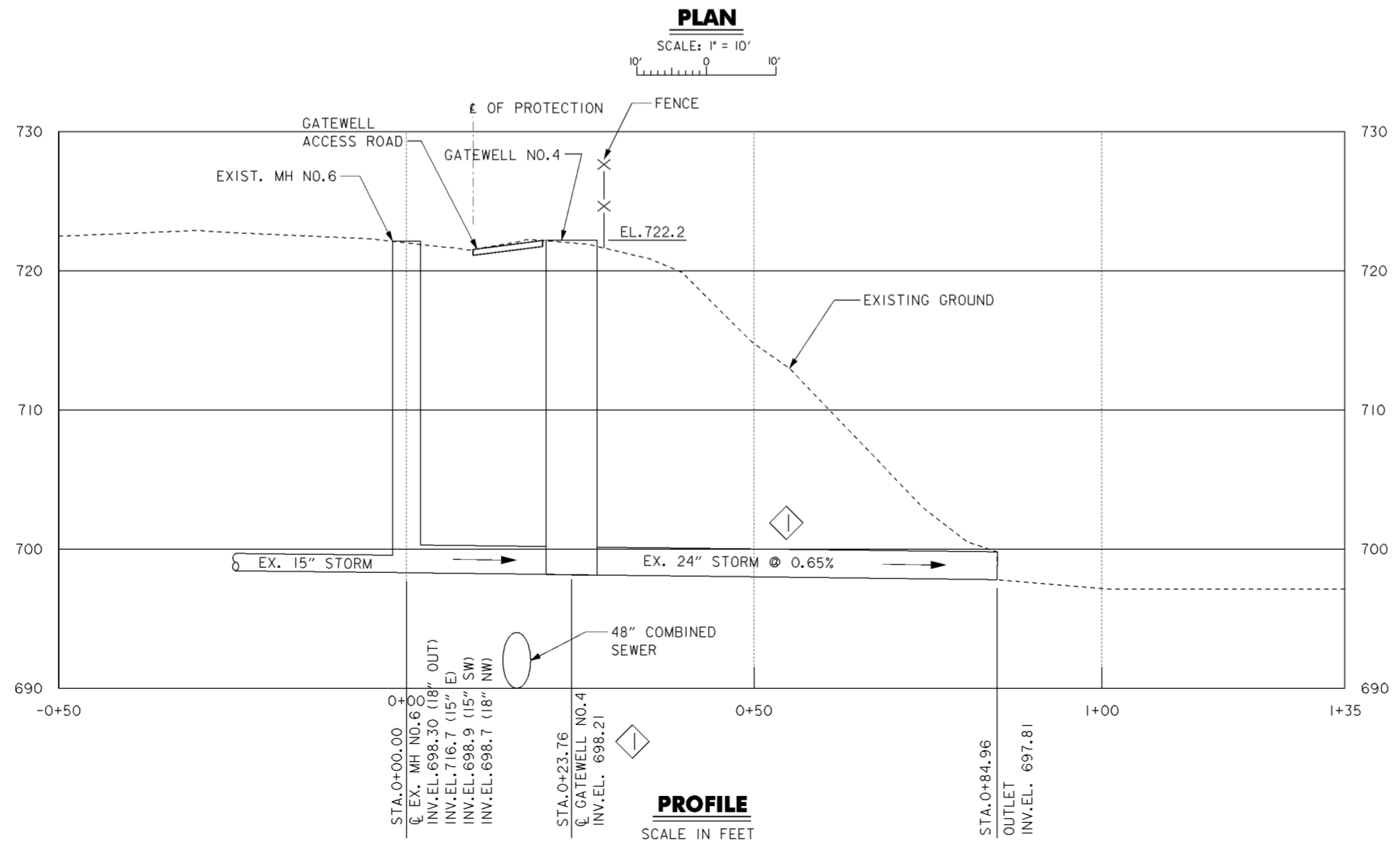
BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P. CONROY	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	GATEWELL NO. 3 PLAN AND PROFILE
Checked by: R. ROMAN	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-

Sheet reference number: **15/3**
 FILENAME: a06app03.dgn
 PIN TABLE:
 Sheet 1 of 1



GATEWELL	EASTING	NORTHING
1	1,855,743.730	710,945.295
2	1,855,625.112	710,151.360
3	1,855,768.415	709,632.709
4	1,856,011.321	709,054.662
5	1,856,531.724	708,041.310
6	1,856,788.329	707,503.203

THE LOCATION OF THE GATEWELLS IN THE TABLE ABOVE ARE APPROXIMATE AND BASED UPON THE LOCATION WHERE THE GATEWELL INTERCEPTS THE STORM SEWER. THE CONTRACTOR SHALL UNCOVER THE STORM SEWER AND CENTER THE GATEWELL ON THE STORM SEWER INLET/OUTLET.



NOTES

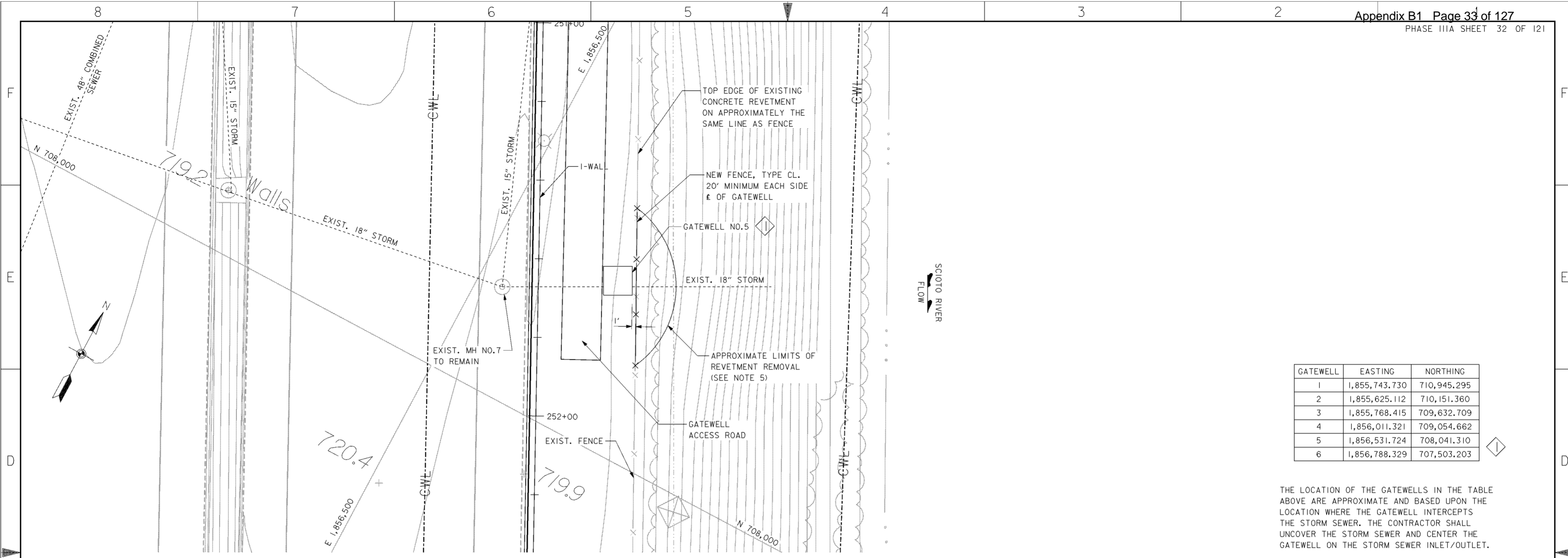
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL GATEWELL PLAN AND DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
3. FOR GATEWELL REINFORCING STEEL SEE DRAWING NO. 15/9.
4. REMOVE DISTURBED STORM SEWER PIPE TO NEAREST JOINT AND PROVIDE NEW CONNECTIONS TO THE GATEWELL.
5. SAWCUT AND REMOVE EXISTING REVETMENT TO ALLOW FOR CONSTRUCTION OF GATEWELL. REGRADE AND SEED DISTURBED AREAS.
6. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 15/8.
7. FOR GATEWELL NO. 4 SHORING SEE DRAWING NO. 20.3/5.

Revisions			
Symbol	Descriptions	Date	Approved

DESIGNED BY: P. CONROY
 DRAWN BY: T. MULLINS
 CHECKED BY: R. ROMAN
 REVIEWED BY: AS SHOWN
 DATE: OCTOBER 1999
 DRAWING CODE: 16-PWC-12-

U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 HUNTINGTON, WEST VIRGINIA
 SCIO TO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA
**GATEWELL NO. 4
 PLAN AND PROFILE**

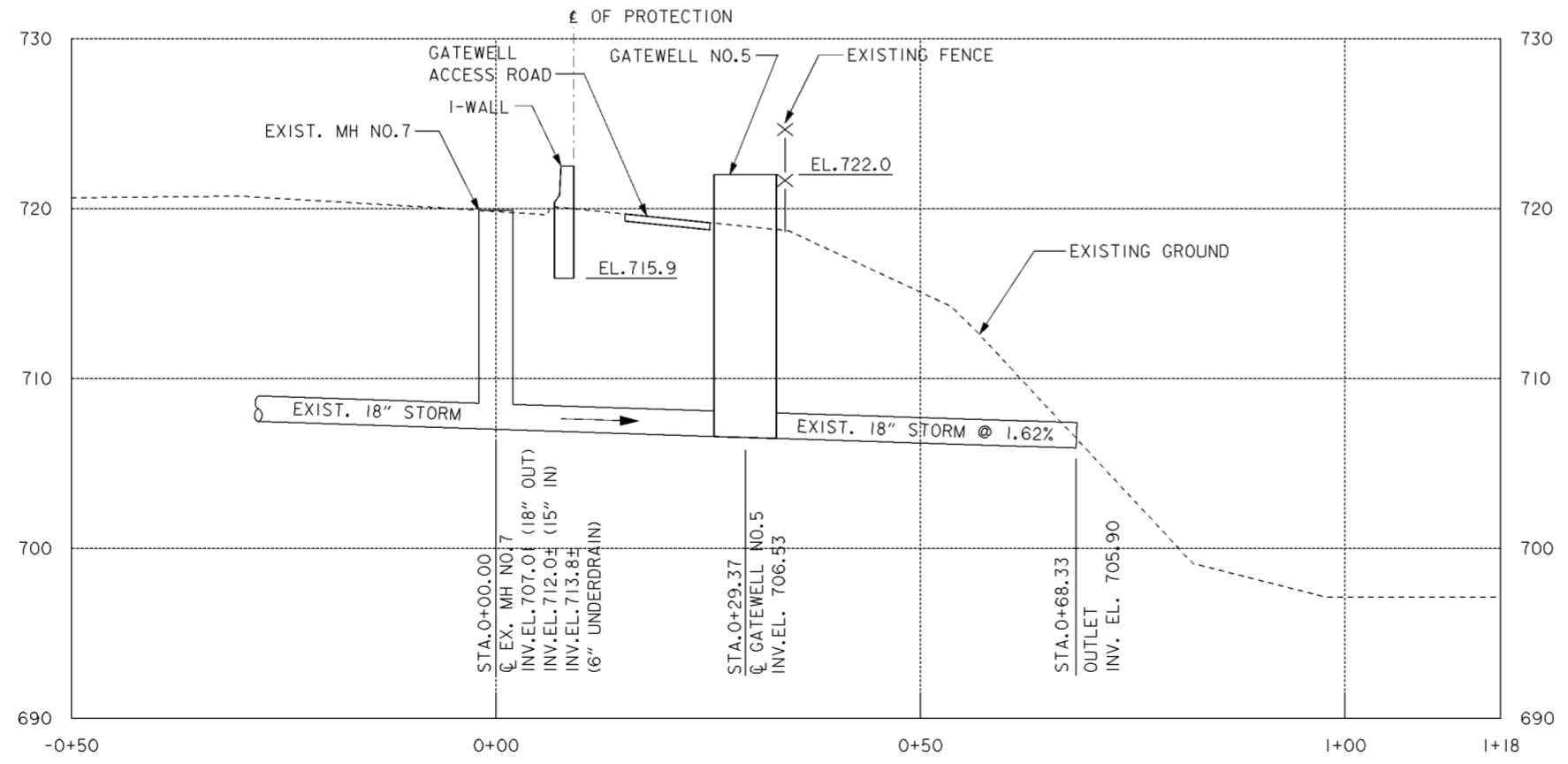
FILENAME: a06app04.dgn
 SHEET: 15/4
 SHEET 1 OF 1



GATEWELL	EASTING	NORTHING
1	1,855,743.730	710,945.295
2	1,855,625.112	710,151.360
3	1,855,768.415	709,632.709
4	1,856,011.321	709,054.662
5	1,856,531.724	708,041.310
6	1,856,788.329	707,503.203

THE LOCATION OF THE GATEWELLS IN THE TABLE ABOVE ARE APPROXIMATE AND BASED UPON THE LOCATION WHERE THE GATEWELL INTERCEPTS THE STORM SEWER. THE CONTRACTOR SHALL UNCOVER THE STORM SEWER AND CENTER THE GATEWELL ON THE STORM SEWER INLET/OUTLET.

PLAN
 SCALE: 1" = 10'



PROFILE
 SCALE IN FEET

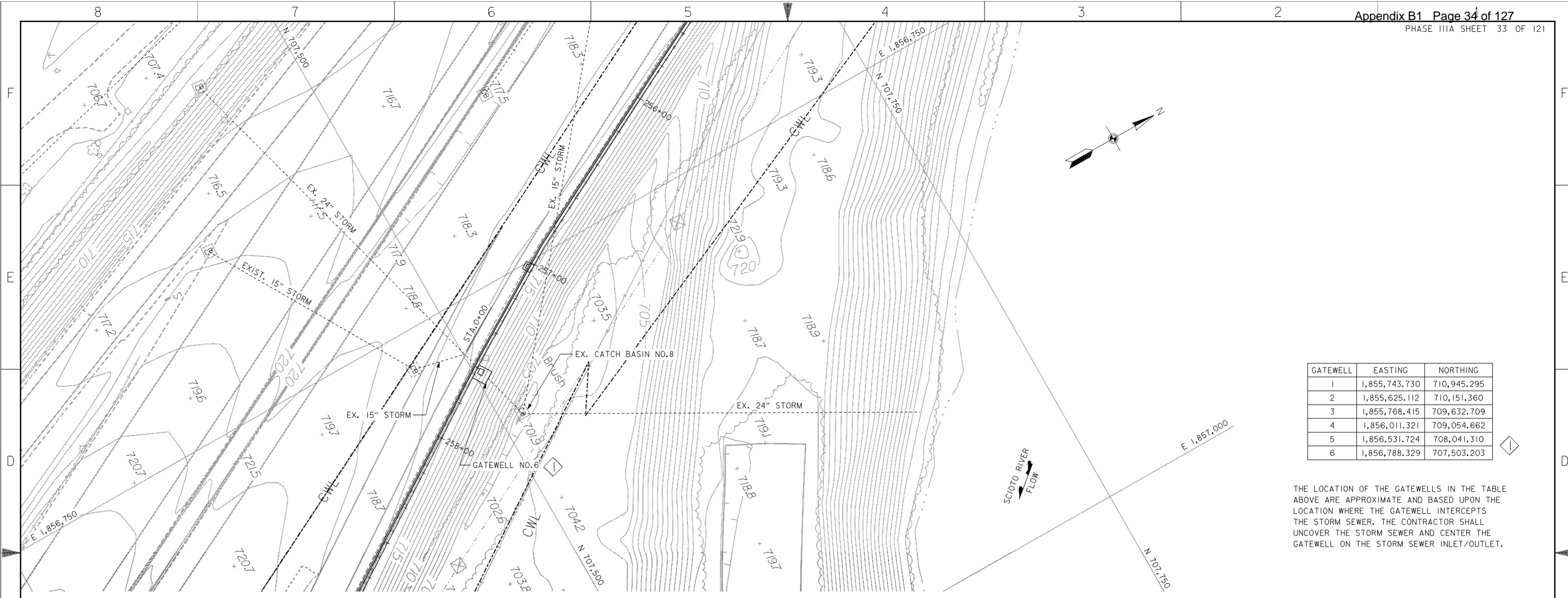
NOTES

- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
- FOR TYPICAL GATEWELL PLAN AND DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
- FOR GATEWELL REINFORCING STEEL SEE DRAWING NO. 15/9.
- REMOVE DISTURBED STORM SEWER PIPE TO NEAREST JOINT AND PROVIDE NEW CONNECTIONS TO THE GATEWELL.
- SAWCUT AND REMOVE EXISTING REVETMENT TO ALLOW FOR CONSTRUCTION OF GATEWELL. REGRADE AND SEED DISTURBED AREAS.
- FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 15/8.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED - PHASE IIIA SOUTH	4/01	P.O.C.

BURGESS & NIPLÉ, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P. CONROY	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	GATEWELL NO. 5 PLAN AND PROFILE
Checked by: R. ROMAN	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-

Sheet reference number: **15/5**
 FILENAME: a04app05.dgn
 PEN TABLE:
 Sheet 1 of 1



PLAN
SCALE: 1" = 20'

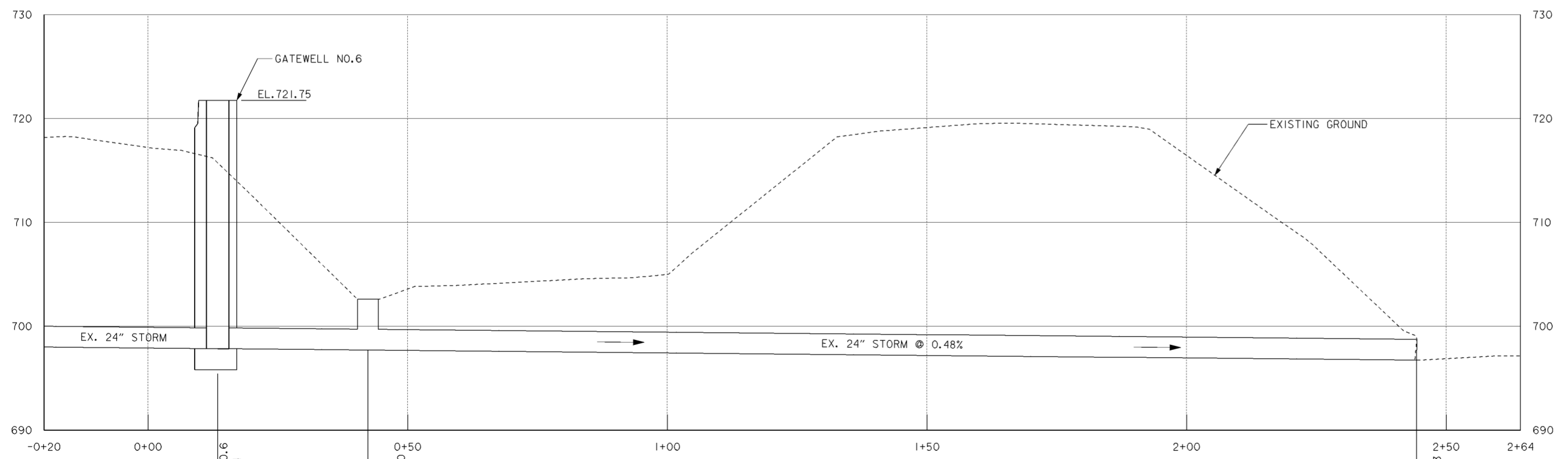
GATEWELL	EASTING	NORTHING
1	1,855,743.730	710,945.295
2	1,855,625.112	710,151.360
3	1,855,768.415	709,632.709
4	1,856,011.321	709,054.662
5	1,856,531.724	708,041.310
6	1,856,788.329	707,503.203

THE LOCATION OF THE GATEWELLS IN THE TABLE ABOVE ARE APPROXIMATE AND BASED UPON THE LOCATION WHERE THE GATEWELL INTERCEPTS THE STORM SEWER. THE CONTRACTOR SHALL UNCOVER THE STORM SEWER AND CENTER THE GATEWELL ON THE STORM SEWER INLET/OUTLET.



NOTES

- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
- FOR TYPICAL GATEWELL PLAN AND DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
- FOR GATEWELL REINFORCING STEEL SEE DRAWING NO. 15/10.
- REMOVE DISTURBED STORM SEWER PIPE TO NEAREST JOINT AND PROVIDE NEW CONNECTIONS TO THE GATEWELL.



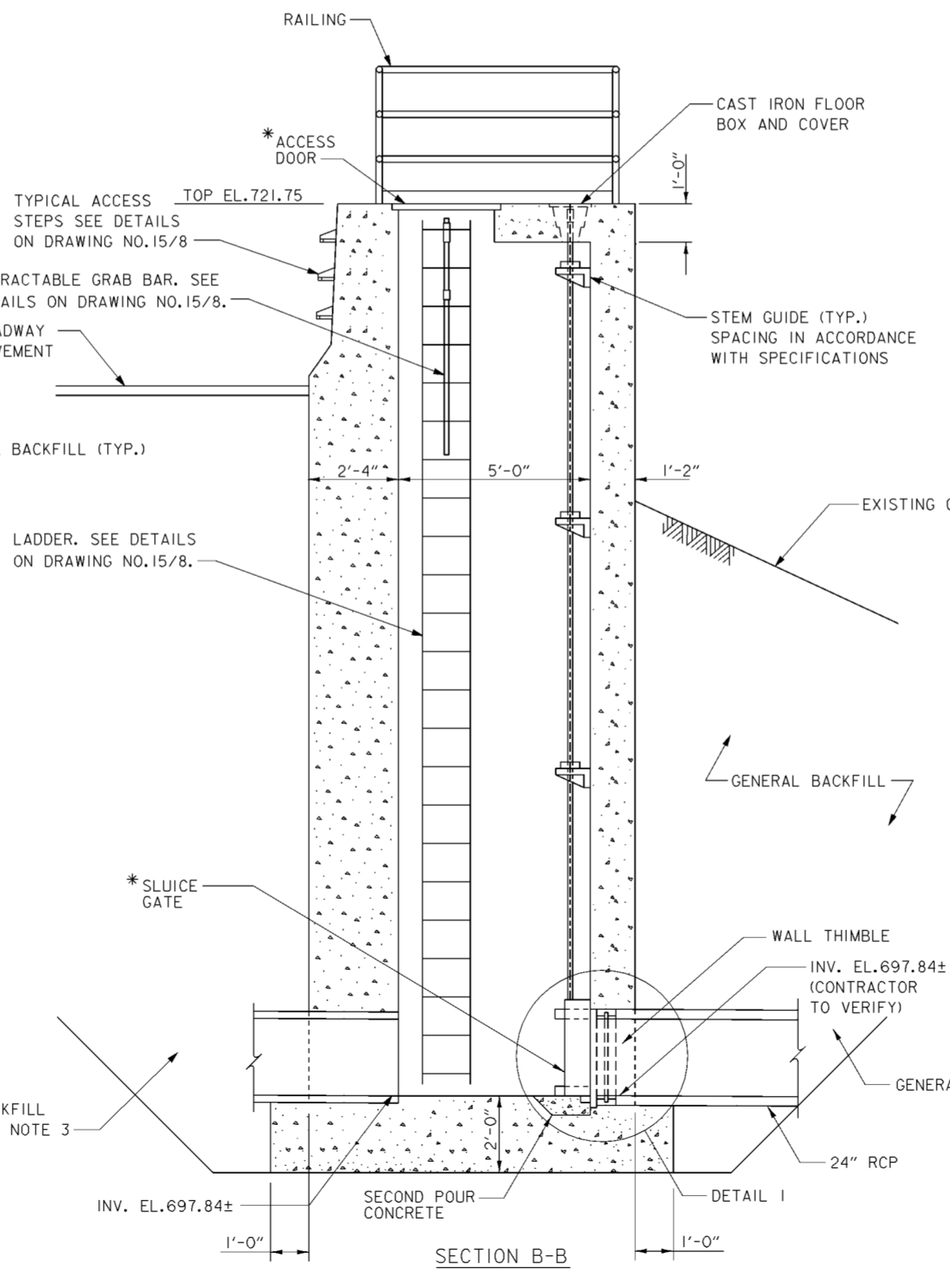
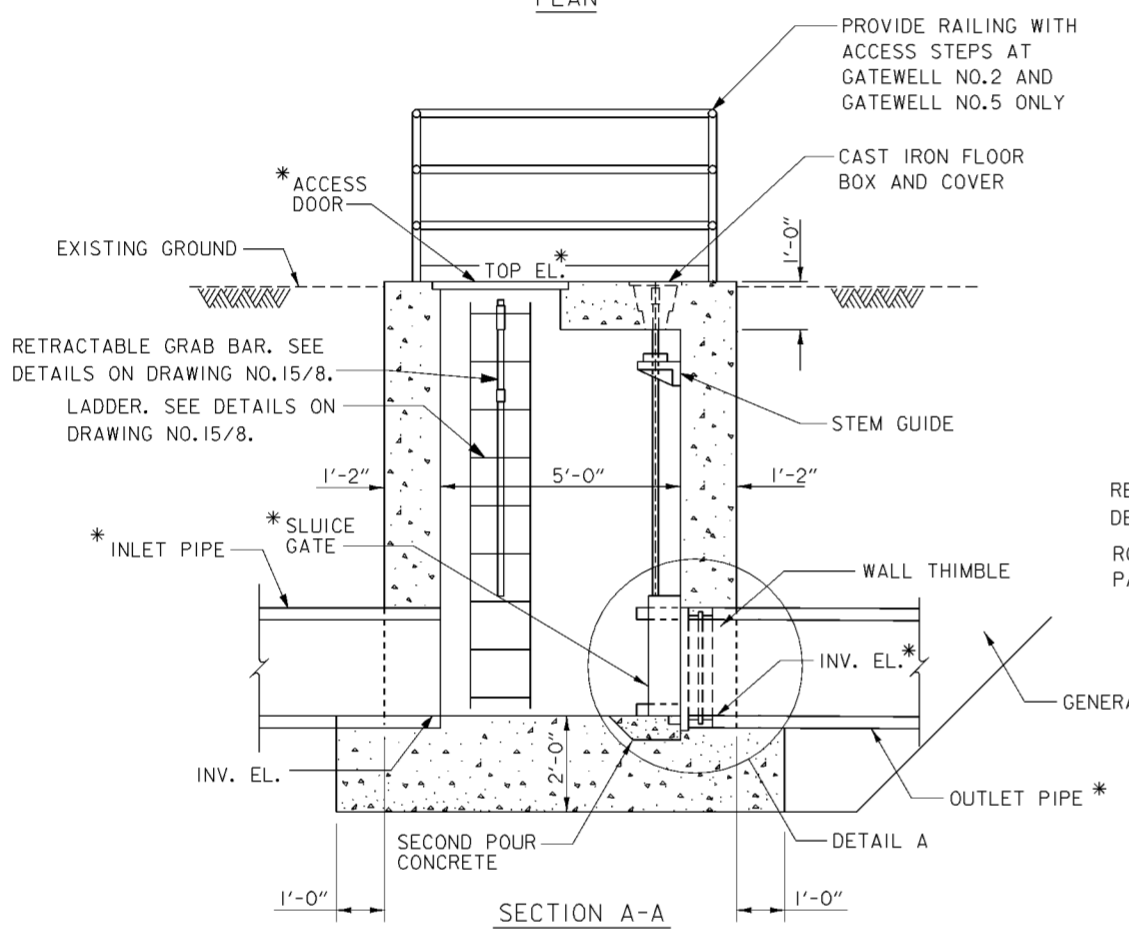
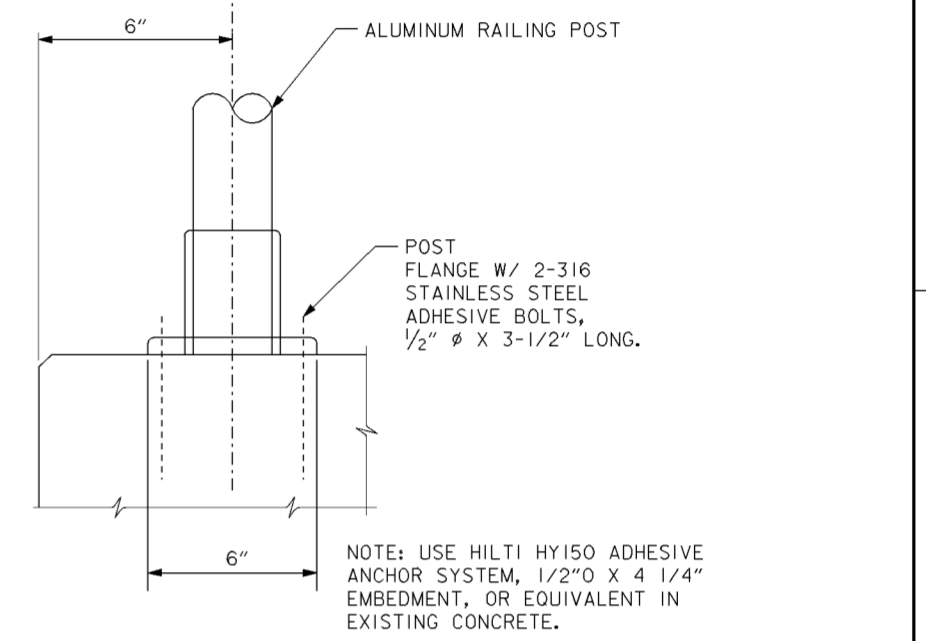
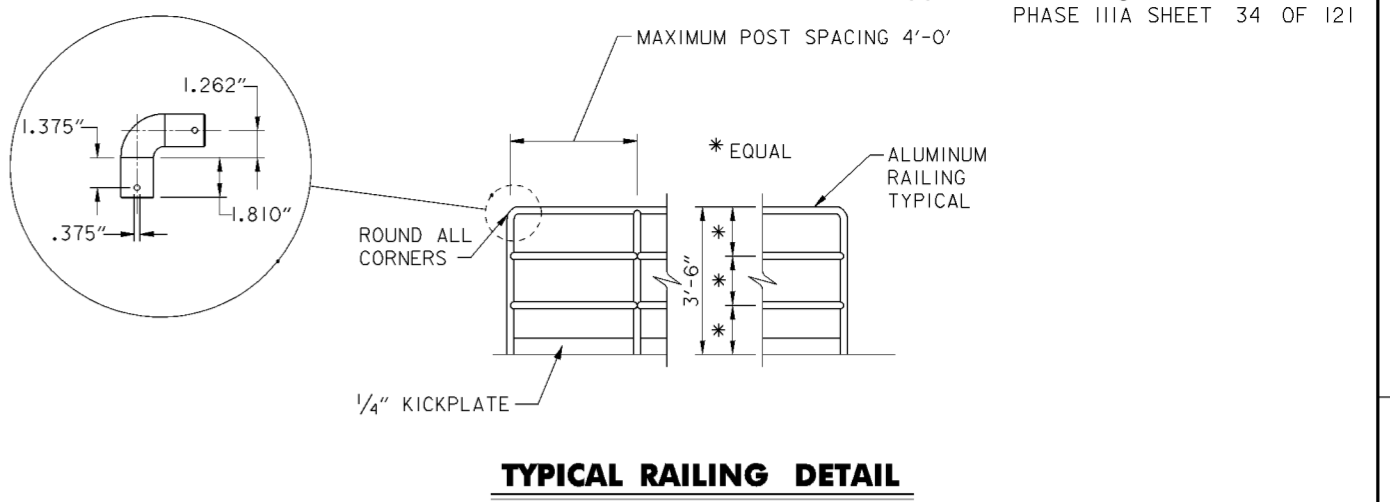
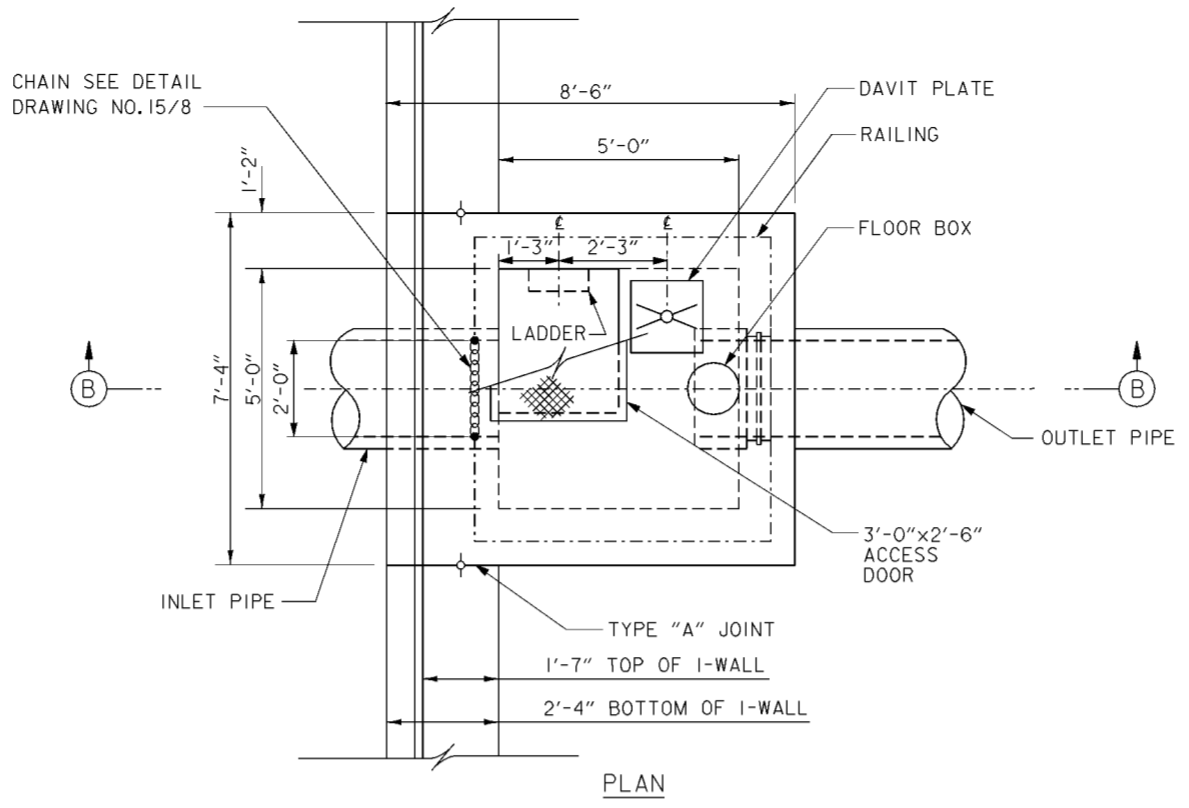
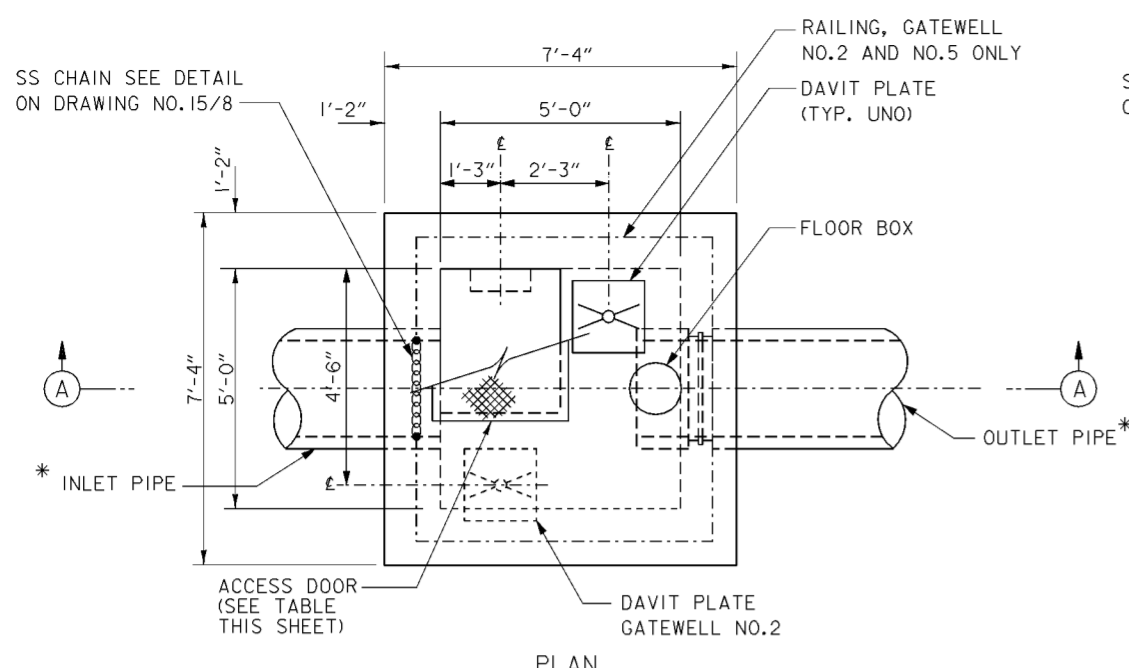
PROFILE
SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved

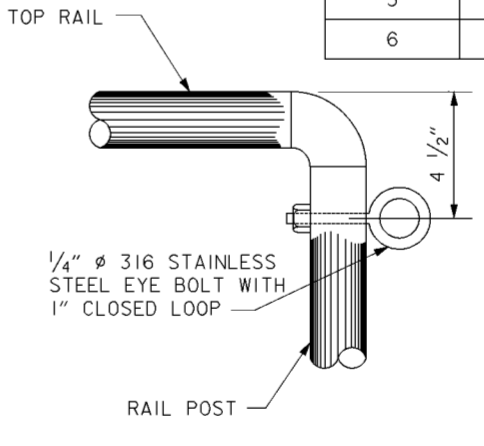
◇ REVISED AS CONSTRUCTED - PHASE IIIA SOUTH 4/01 P.O.C.

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 IIIA
Drawn by: T. MULLINS	GATEWELL NO. 6 PLAN AND PROFILE
Checked by: R. ROMAN	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-

Sheet reference number: 15/6
FILENAME: a04app06.dgn
PIN TABLE:
Sheet 1 of 1



GATEWELL No.	INLET/OUTLET PIPE SIZE	TOP EL.	INVERT EL.	SLUCE GATE	ACCESS DOOR
1	30"	728.00	703.17±	30"x30"	3'-0"x2'-6"
2	36"	722.5	696.79±	36"x36"	3'-6"x3'-6"
3	18"	721.2	705.92±	18"x18"	3'-0"x2'-6"
4	24"	722.2	698.21±	24"x24"	3'-0"x2'-6"
5	18"	722.0	706.53±	18"x18"	3'-0"x2'-6"
6	24"	721.75	697.84±	24"x24"	3'-0"x2'-6"



NOTES

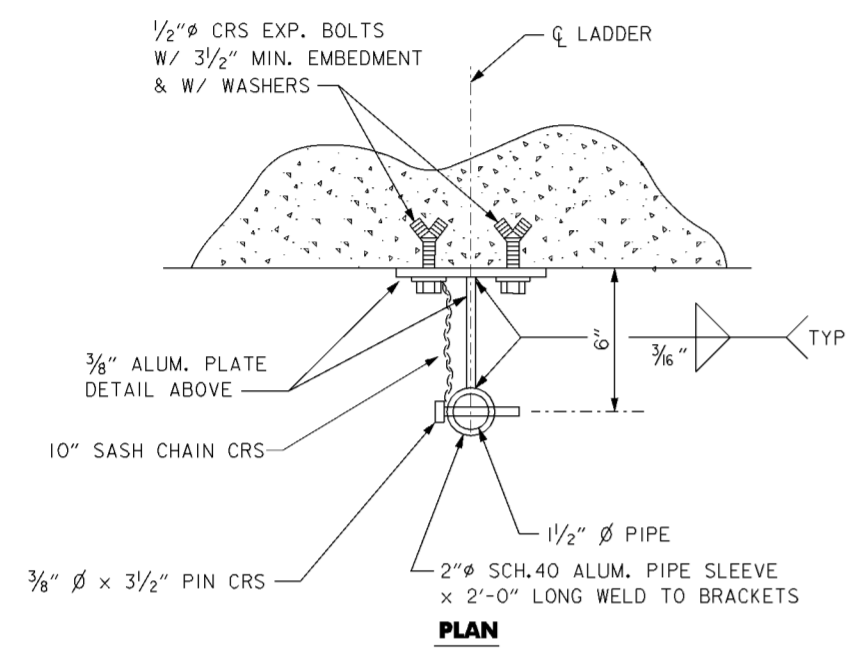
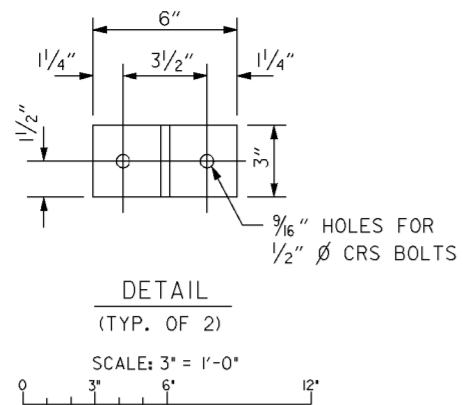
- FOR GATEWELL DETAILS SEE DRAWING NO. 15/8.
- FOR TYPICAL CHAIN AND DAVIT PLATE DETAILS SEE DRAWING NO. 15/8.
- WHERE BACKFILL SUPPORTS PAVEMENT, BACKFILL SHALL CONSIST OF MATERIALS MEETING THE REQUIREMENTS OF GRANULAR EMBANKMENT MATERIALS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS FOR STRUCTURE BACKFILL.

Symbol	Revisions Descriptions	Date	Approved

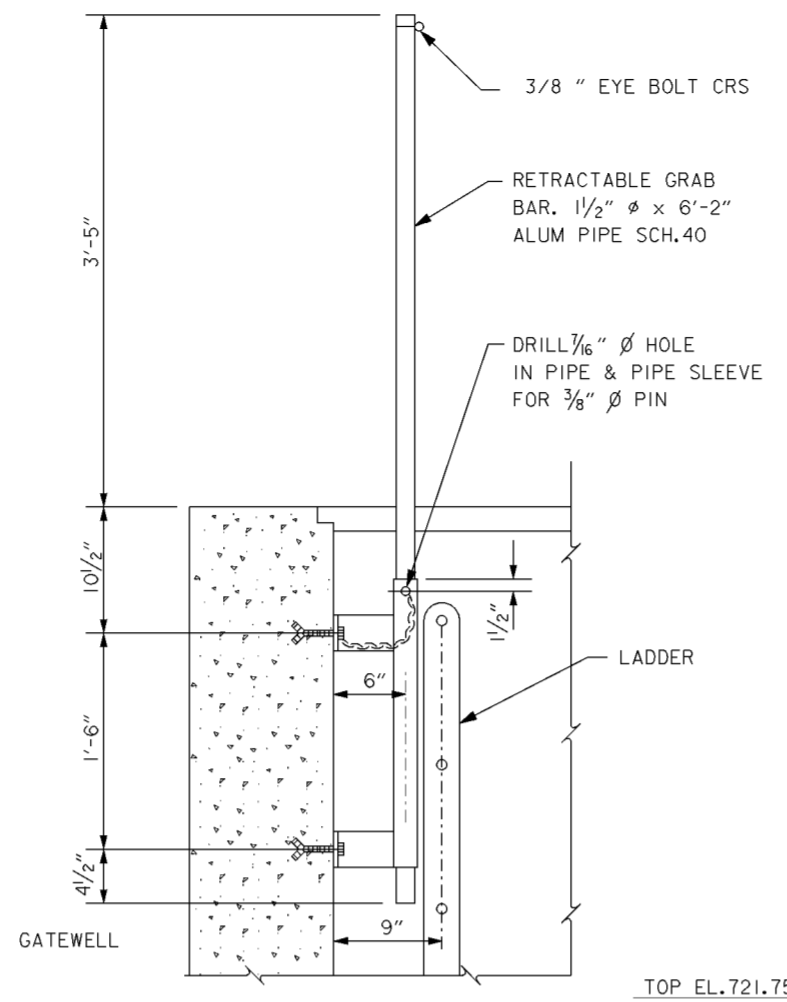
REVISED AS CONSTRUCTED - PHASE IIIA SOUTH 4/01 P.O.C.

BURGESS & NIPLÉ, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P. CONROY	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: A. PUMMELL	TYPICAL GATEWELL PLAN AND SECTIONS
Checked by: R. ROMAN	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-

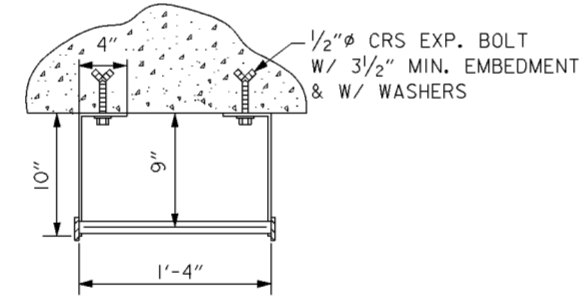
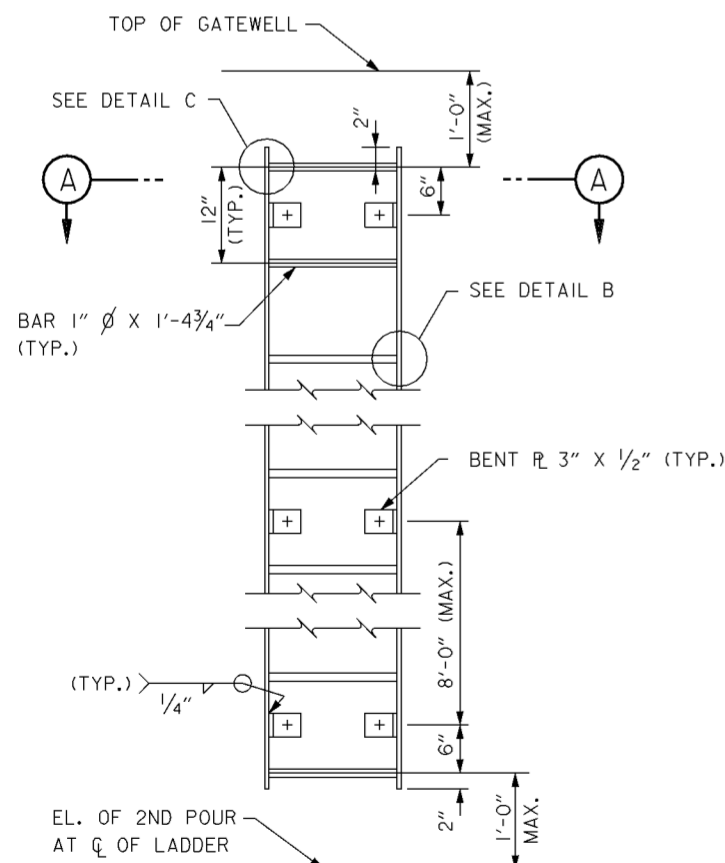
Sheet reference number: **15/7**
 FILENAME: a06d4r01.dgn
 PIN TABLE:
 Sheet 1 of 1



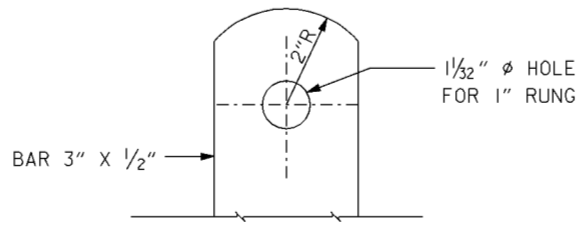
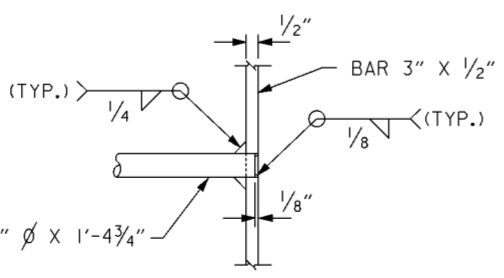
NOTE:
 ALL MATERIAL TO BE ALUMINUM
 ALLOY 6061-T6 UNLESS NOTED.



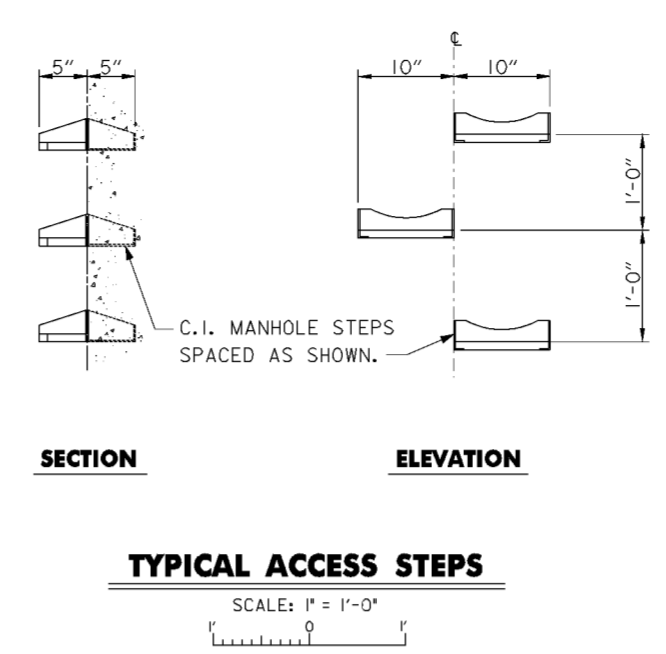
RETRACTABLE GRAB BAR



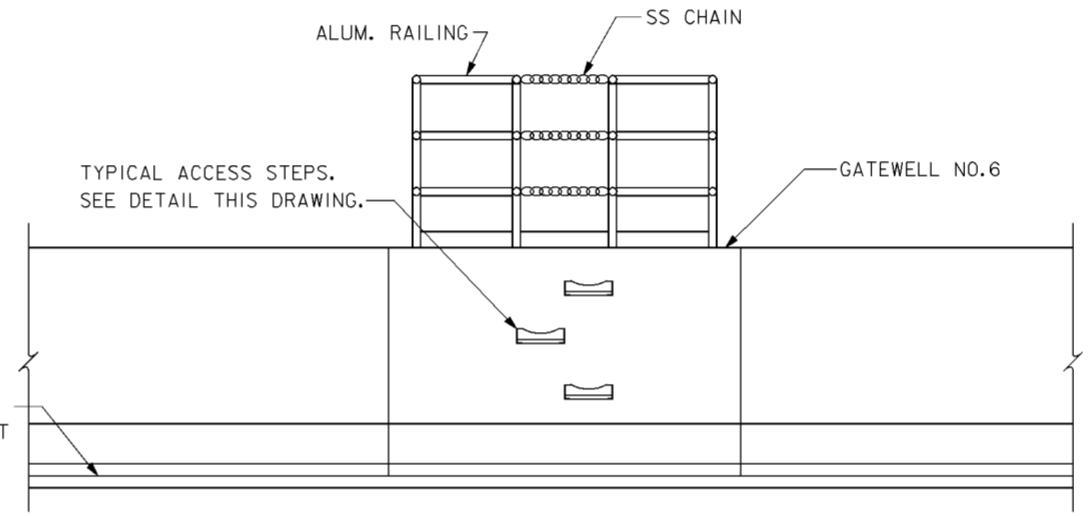
NOTE:
 ALL MATERIAL TO BE ALUMINUM
 ALLOY 6061-T6 UNLESS NOTED.



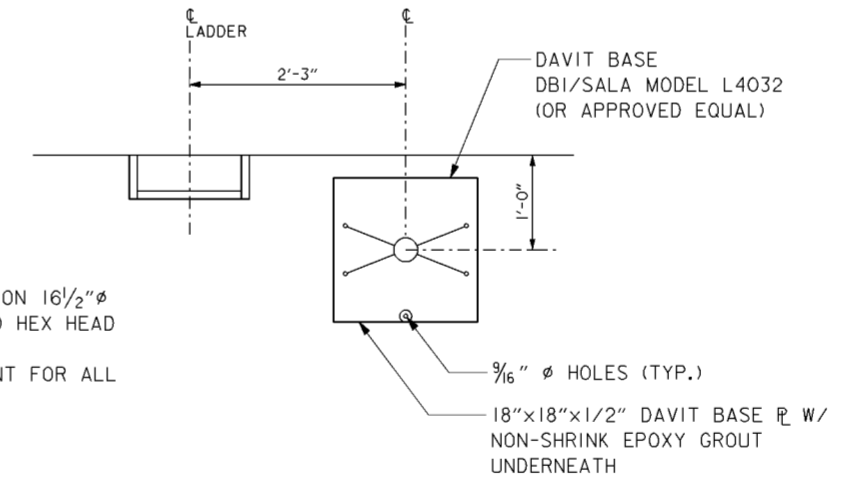
LADDER DETAILS



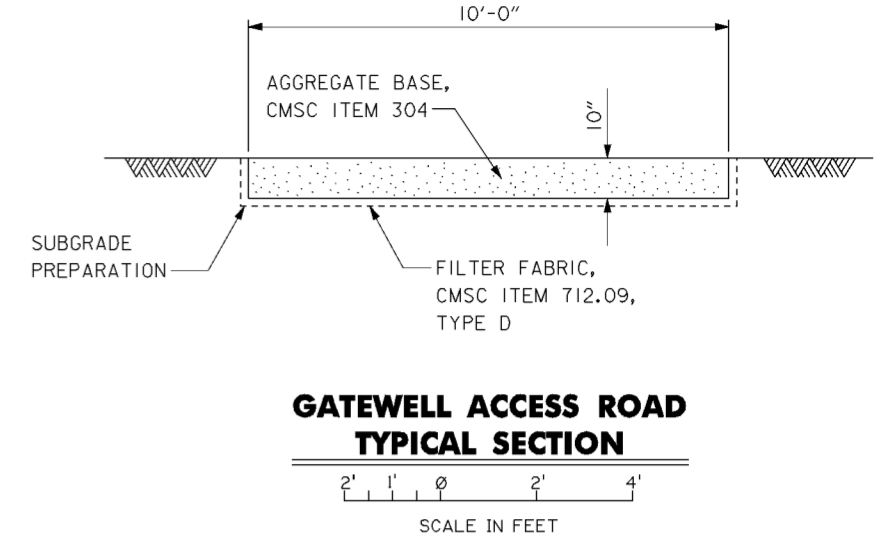
TYPICAL ACCESS STEPS



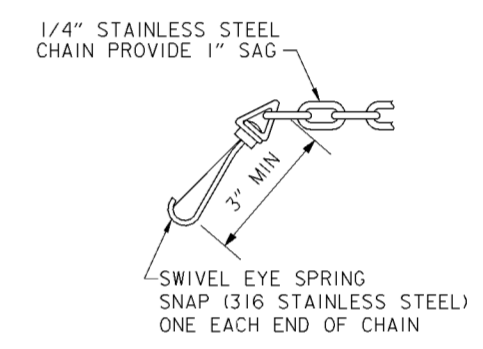
TYPICAL LADDER PLAN WITH DAVIT BASE



- INSTALLATION NOTES:
1. PROVIDE 8-1/2" diameter SS ADHESIVE ANCHORS ON 1 1/2" diameter BOLT CIRCLE W/ SS LOCK WASHERS AND HEX HEAD NUTS FOR EACH BASE.
 2. PROVIDE 6 3/8" MIN. CONCRETE EMBEDMENT FOR ALL ANCHORS.



GATEWELL ACCESS ROAD TYPICAL SECTION

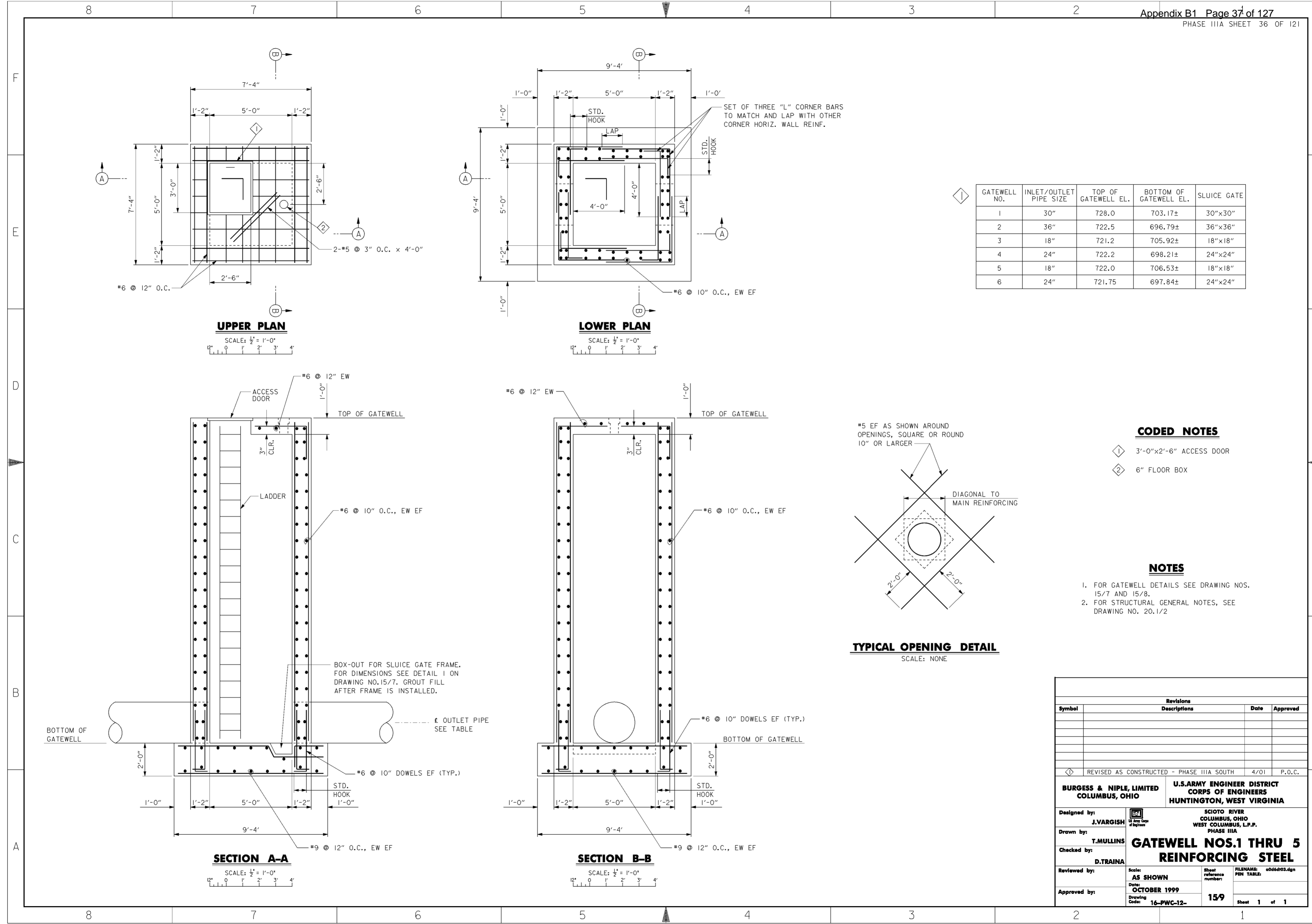


NOTES

1. EXPANSION BOLTS SHALL BE 1/2" diameter TYPE 316 STAINLESS STEEL WITH 6" MIN. EMBEDMENT "KWICK BOLT II" BY HILTI OR EQUAL.
2. EYE BOLTS SHALL BE 3/8" SHANK DIA. SHOULDER EYE BOLT TYPE 316 STAINLESS STEEL.
3. ALL ALUMINUM SURFACES WHICH COMES IN CONTACT WITH CONCRETE AND/OR STEEL SHALL BE PAINTED WITH A HEAVY COAT OF BITUMINOUS PAINT.
4. WELD 3/8" FLANGE TO LADDER AND RAILING. ATTACH FLANGE TO CONC. W/ 2 - 5/8" SS EXPANSION BOLTS W/ 4" MIN. EMBEDMENT.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLÉ, 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:	AS SHOWN
Approved by:	OCTOBER 1999	Sheet reference number:	15/8
Drawing Code: 16-PWC-12-		FILENAME:	00d6d02.dgn
		PIN TABLE:	
		Sheet	1 of 1



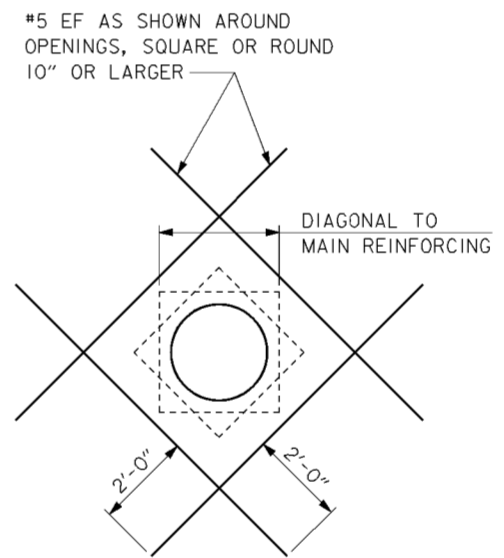
GATEWELL NO.	INLET/OUTLET PIPE SIZE	TOP OF GATEWELL EL.	BOTTOM OF GATEWELL EL.	SLUICE GATE
1	30"	728.0	703.17±	30"x30"
2	36"	722.5	696.79±	36"x36"
3	18"	721.2	705.92±	18"x18"
4	24"	722.2	698.21±	24"x24"
5	18"	722.0	706.53±	18"x18"
6	24"	721.75	697.84±	24"x24"

CODED NOTES

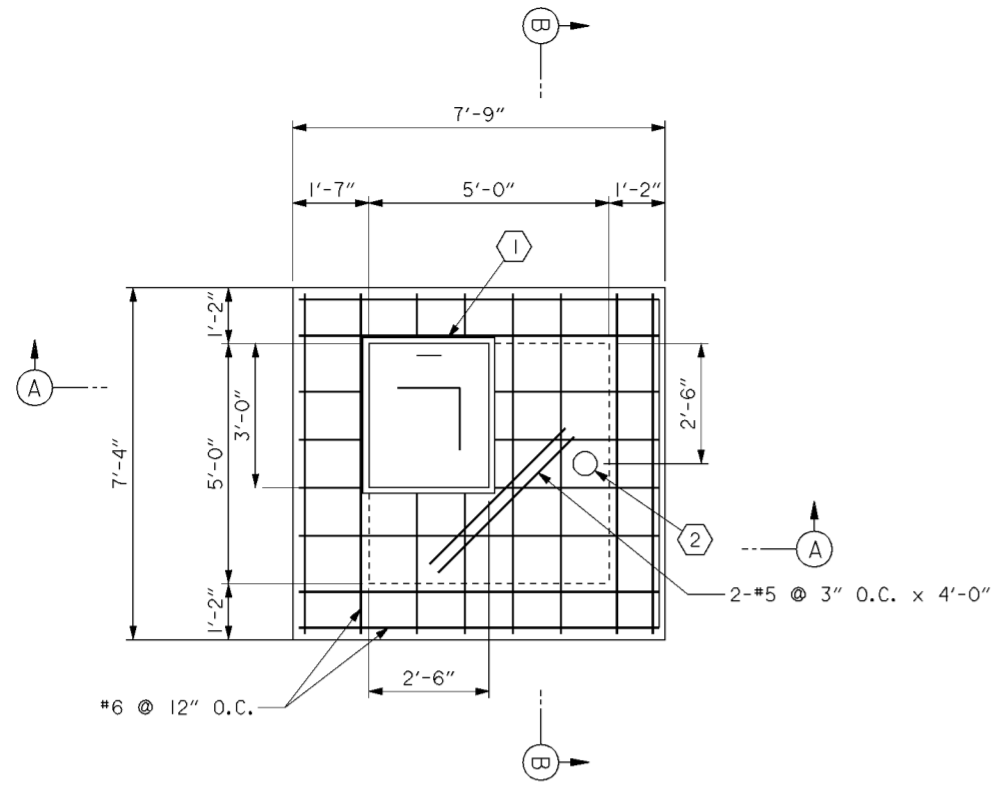
- 1 3'-0"x2'-6" ACCESS DOOR
- 2 6" FLOOR BOX

NOTES

- FOR GATEWELL DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
- FOR STRUCTURAL GENERAL NOTES, SEE DRAWING NO. 20.1/2

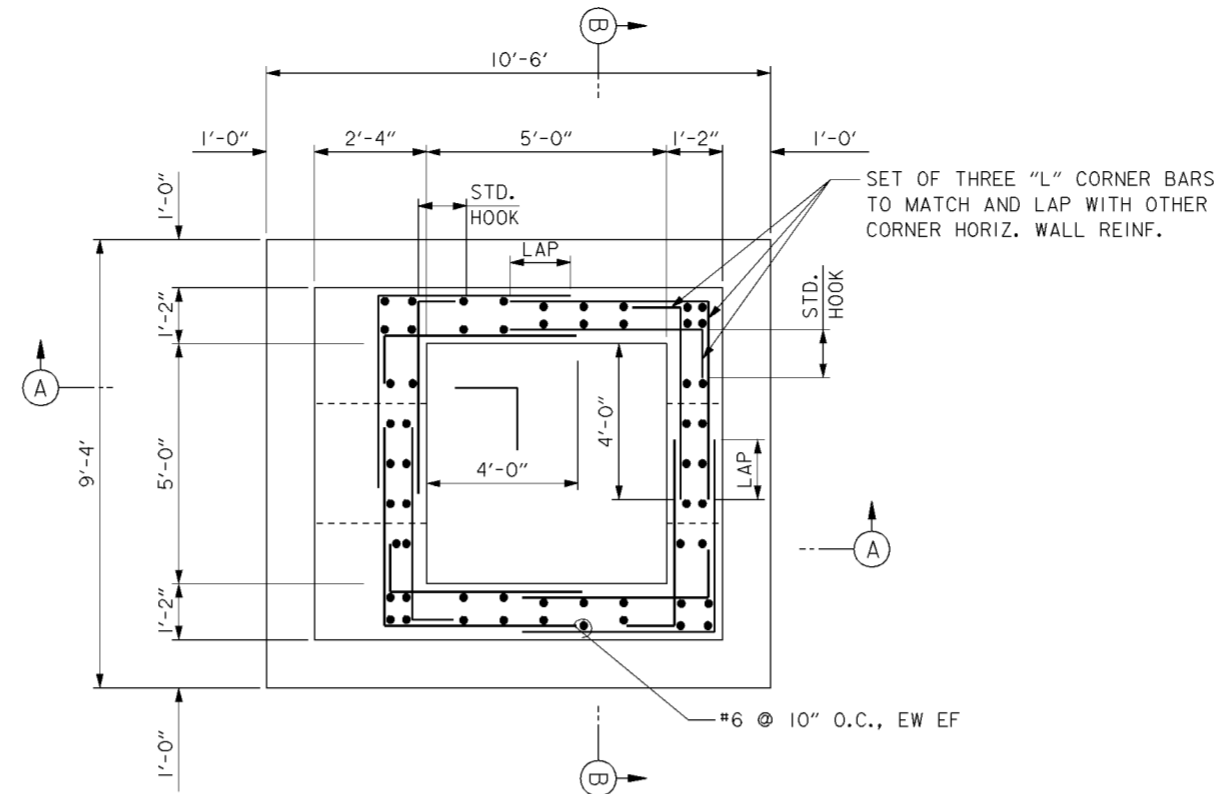


Revisions		Date	Approved
Symbol	Descriptions		
REVISAS AS CONSTRUCTED - PHASE IIIA SOUTH		4/01	P.O.C.
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J.VARGISH	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	GATEWELL NOS.1 THRU 5 REINFORCING STEEL	
Drawn by: T.MULLINS		Scale: AS SHOWN	Sheet reference number: 15/9
Checked by: D.TRAINA		Date: OCTOBER 1999	FILENAME: a06d403.dgn
Reviewed by:		Drawing Code: 16-PWC-12-	PIN TABLE:
Approved by:			
			Sheet 1 of 1



UPPER PLAN

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

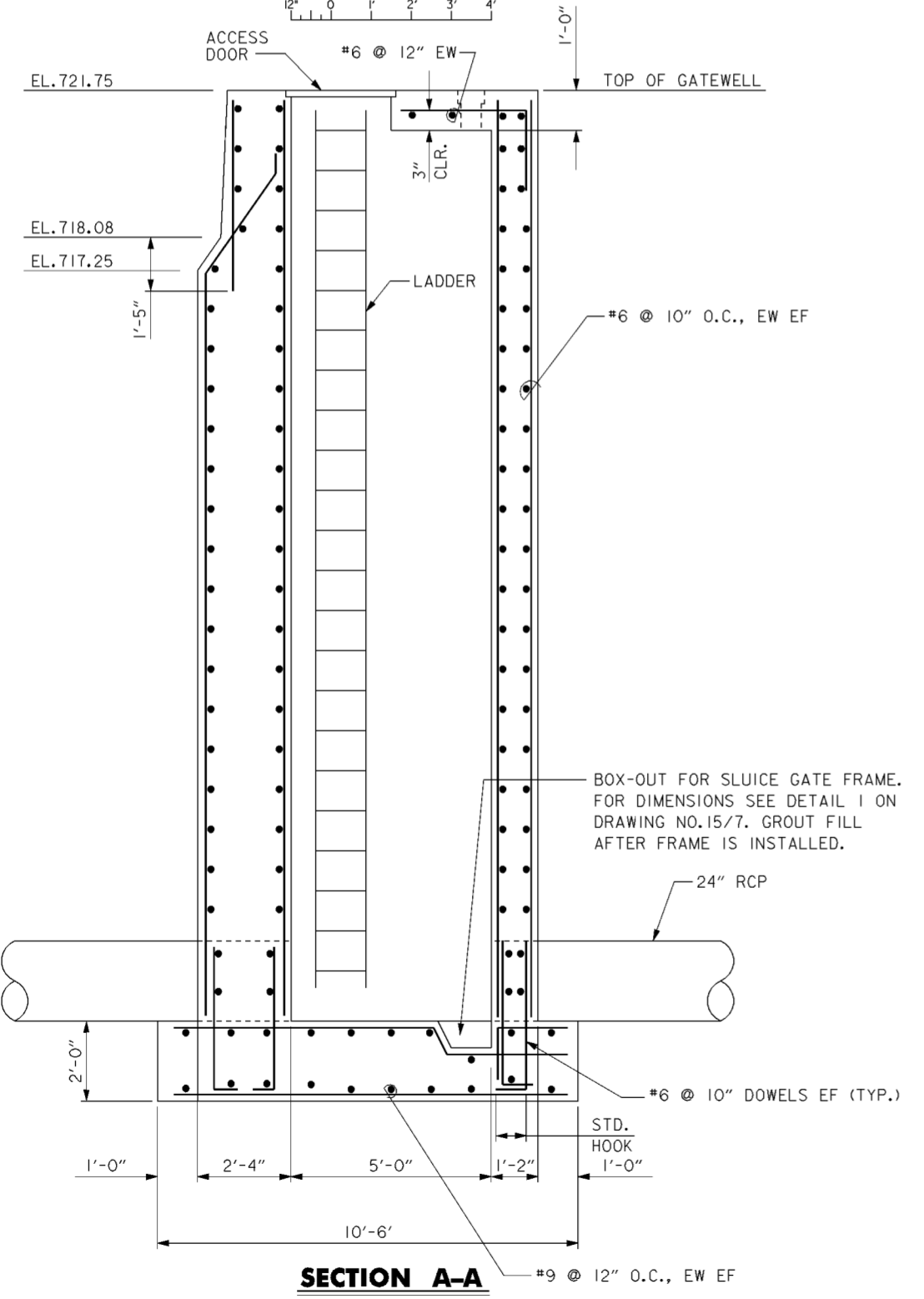


LOWER PLAN

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

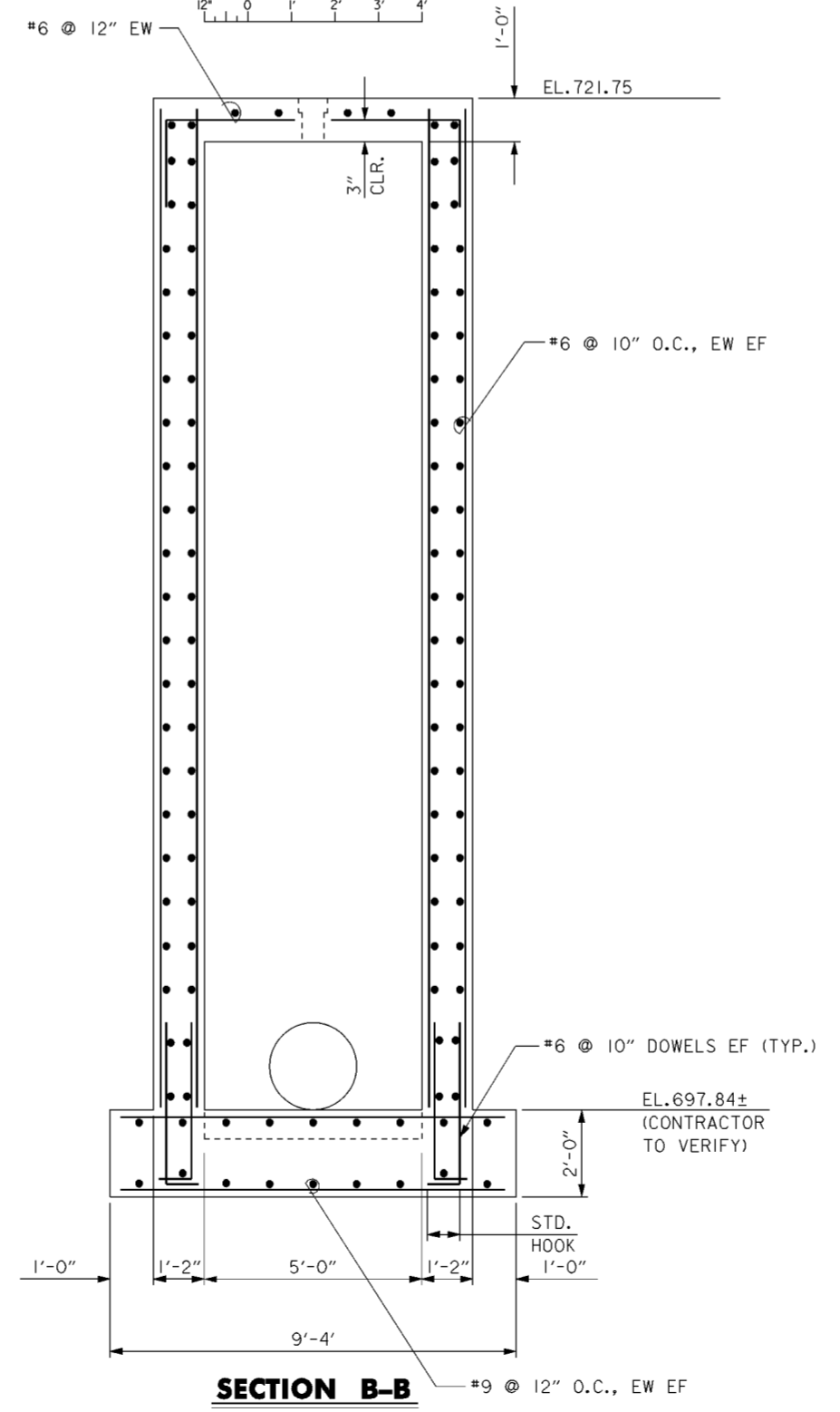
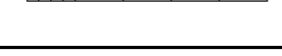


GATEWELL NO.	INLET/OUTLET PIPE SIZE	TOP OF GATEWELL EL.	BOTTOM OF GATEWELL EL.	SLUICE GATE
1	30"	728.0	703.17±	30"x30"
2	36"	722.5	696.79±	36"x36"
3	18"	721.2	705.92±	18"x18"
4	24"	722.2	698.21±	24"x24"
5	18"	722.0	706.53±	18"x18"
6	24"	721.75	697.84±	24"x24"



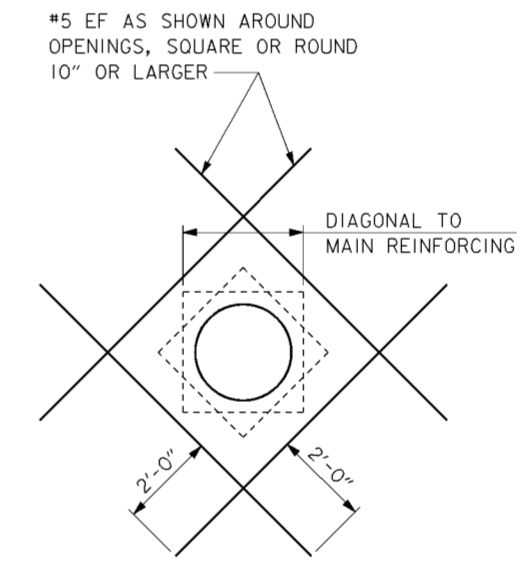
SECTION A-A

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



SECTION B-B

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



TYPICAL OPENING DETAIL
SCALE: NONE

CODED NOTES

- ① 3'-0"x2'-6" ACCESS DOOR
- ② 6" FLOOR BOX

NOTES

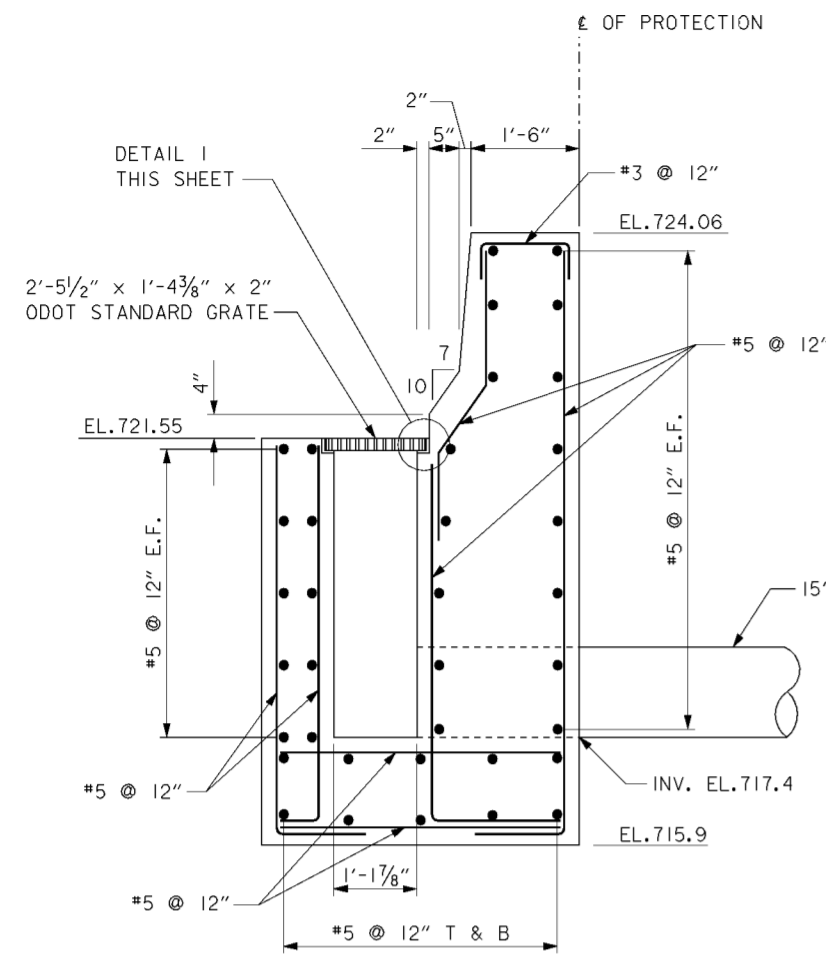
- 1. FOR GATEWELL DETAILS SEE DRAWING NOS. 15/7 AND 15/8.
- 2. FOR STRUCTURAL GENERAL NOTES, SEE DRAWING NO. 20.1/2.

Revisions			
Symbol	Descriptions	Date	Approved

REVISIONS: REVISED AS CONSTRUCTED - PHASE IIIA SOUTH 4/01 P.O.C.

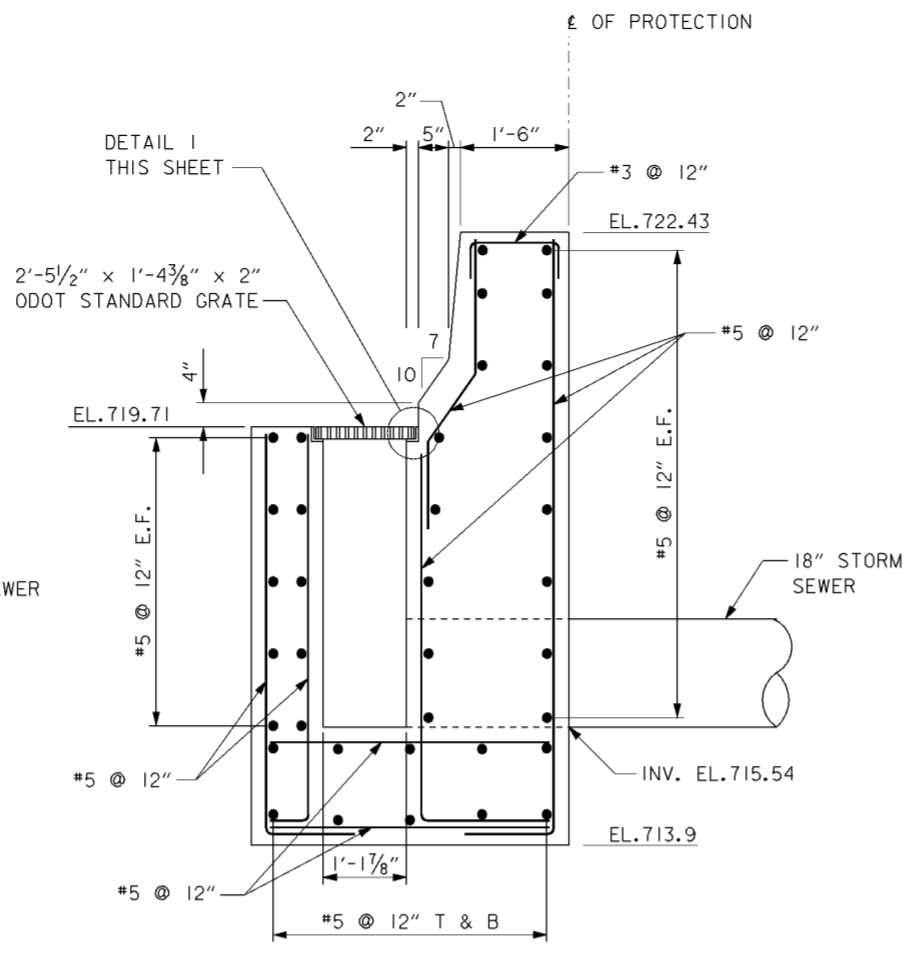
BURGESS & NIPLÉ, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: J.VARGISH	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
Drawn by: T.MULLINS	GATEWELL NO.6 REINFORCING STEEL		
Checked by: D.TRAINA			
Reviewed by:	Scale: AS SHOWN	Sheet reference number:	FILENAME: a0d6d104.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	15/10

Sheet 1 of 1



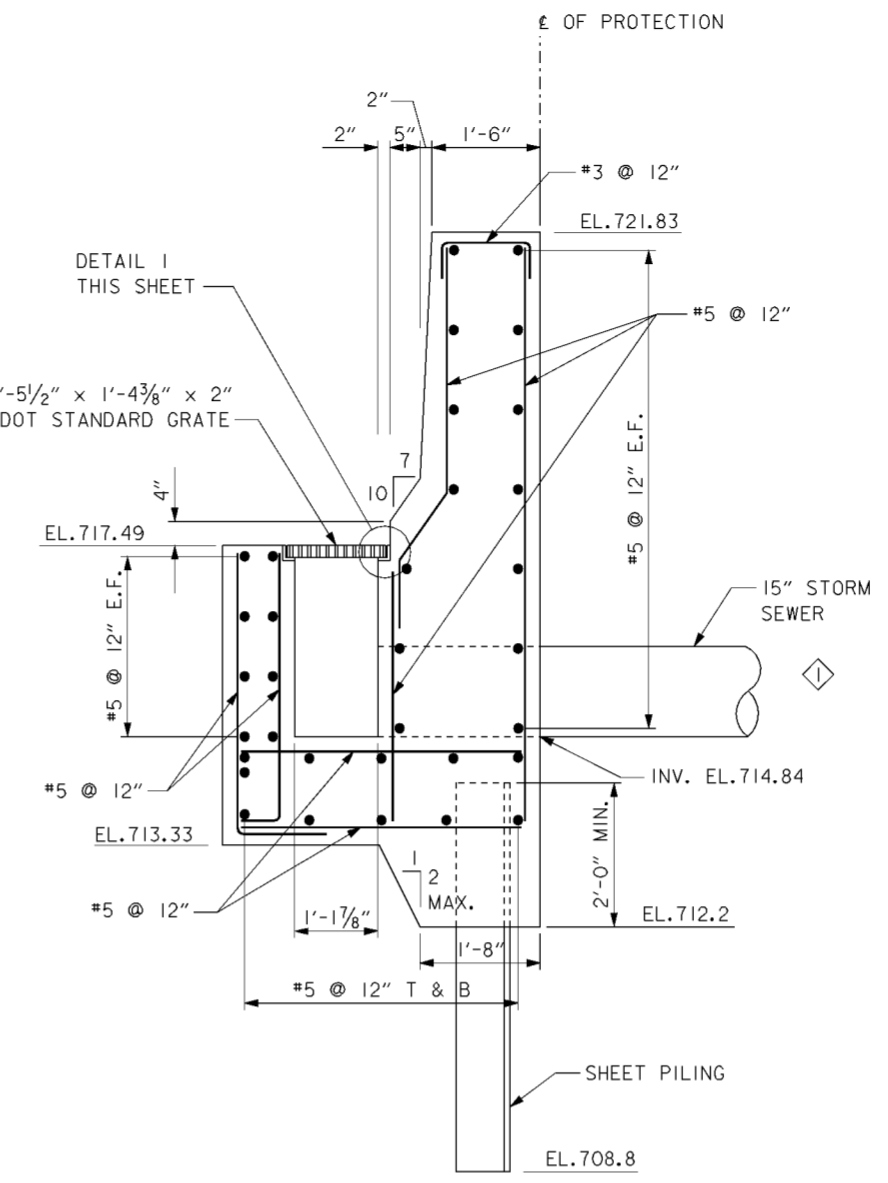
**SECTION A-A
 CATCH BASIN NO. 3-1**

STA. 229+23.15
 SCALE: 3/4" = 1'-0"
 12" 6" 0" 1" 2"



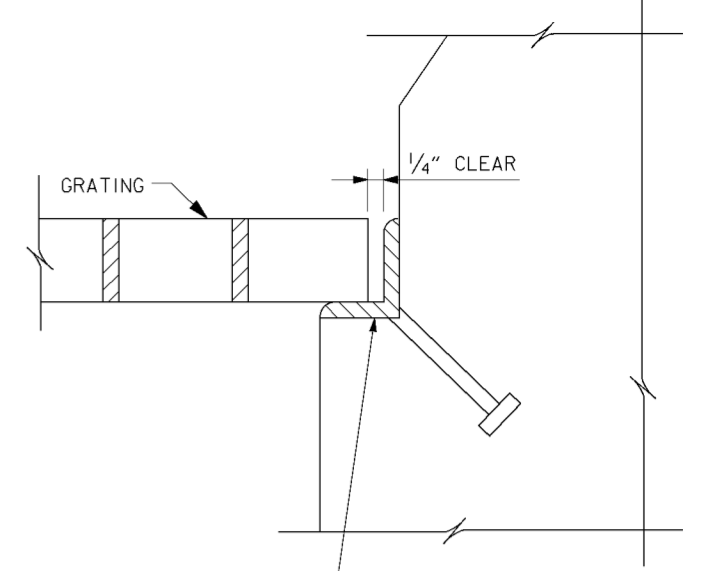
**SECTION A-A
 CATCH BASIN NO. 3-2**

STA. 232+17.94
 SCALE: 3/4" = 1'-0"
 12" 6" 0" 1" 2"



**SECTION A-A
 CATCH BASIN NO. 3-5**

STA. 254+42.54
 SCALE: 3/4" = 1'-0"
 12" 6" 0" 1" 2"



GALV. $\leq 2 \frac{1}{2} \times 2 \times \frac{1}{2}$ LLV
 W/ $\frac{3}{8}$ " \varnothing X 4" STEEL STUDS
 @ 12" ON CENTER.

DETAIL 1

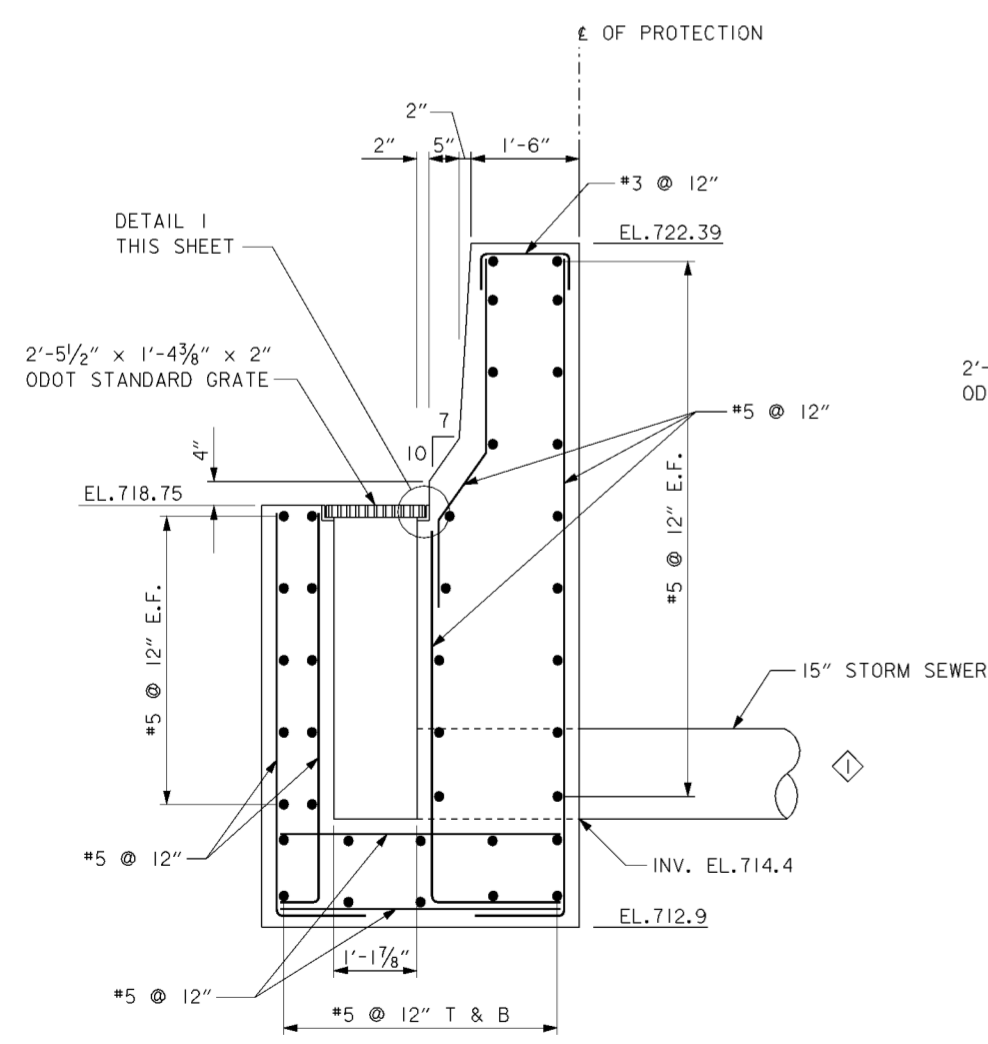
NOTE: ANGLE AND STEEL STUDS
 ANCHOR SIMILAR ALL 4 SIDES.

CODED NOTES

◆ NEW FLAP VALVE ON OUTLET PIPE
 REQUIRED SEE SPECIFICATIONS

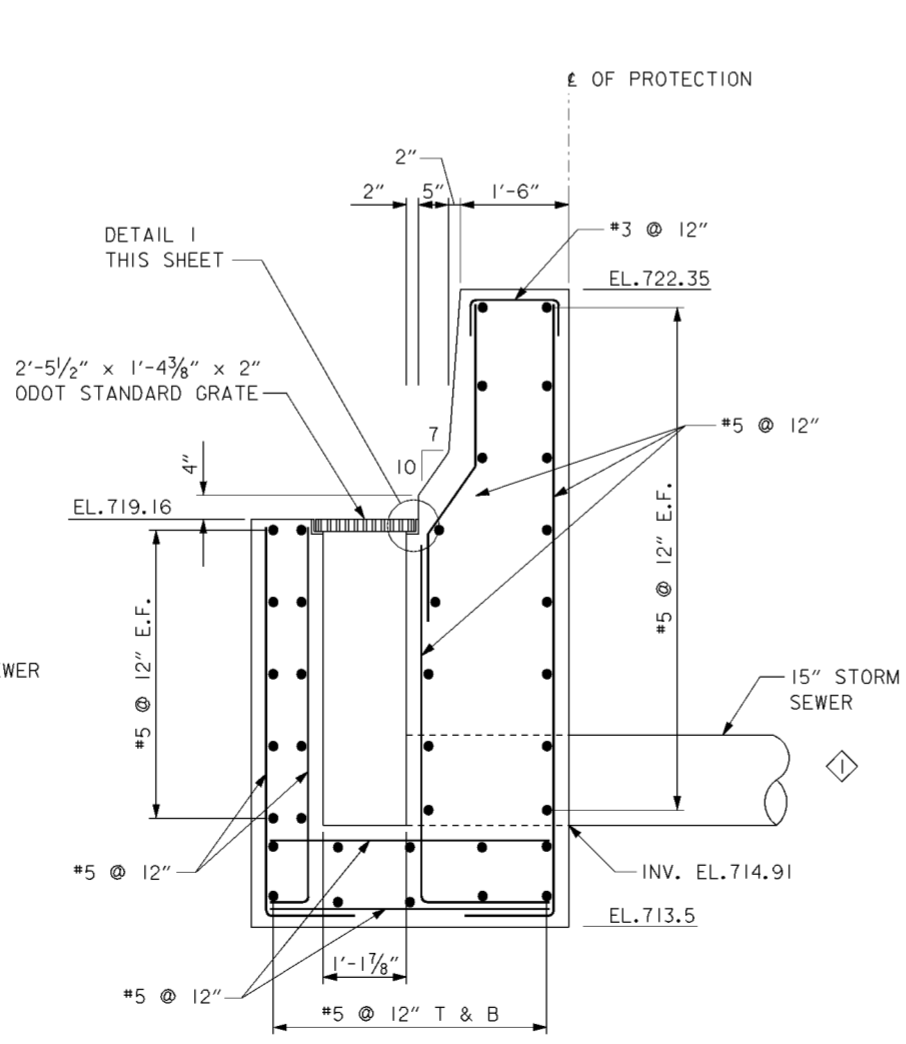
NOTES

- FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.1/2.
- PROVIDE 3" CLEAR COVER ON ALL REINFORCING.



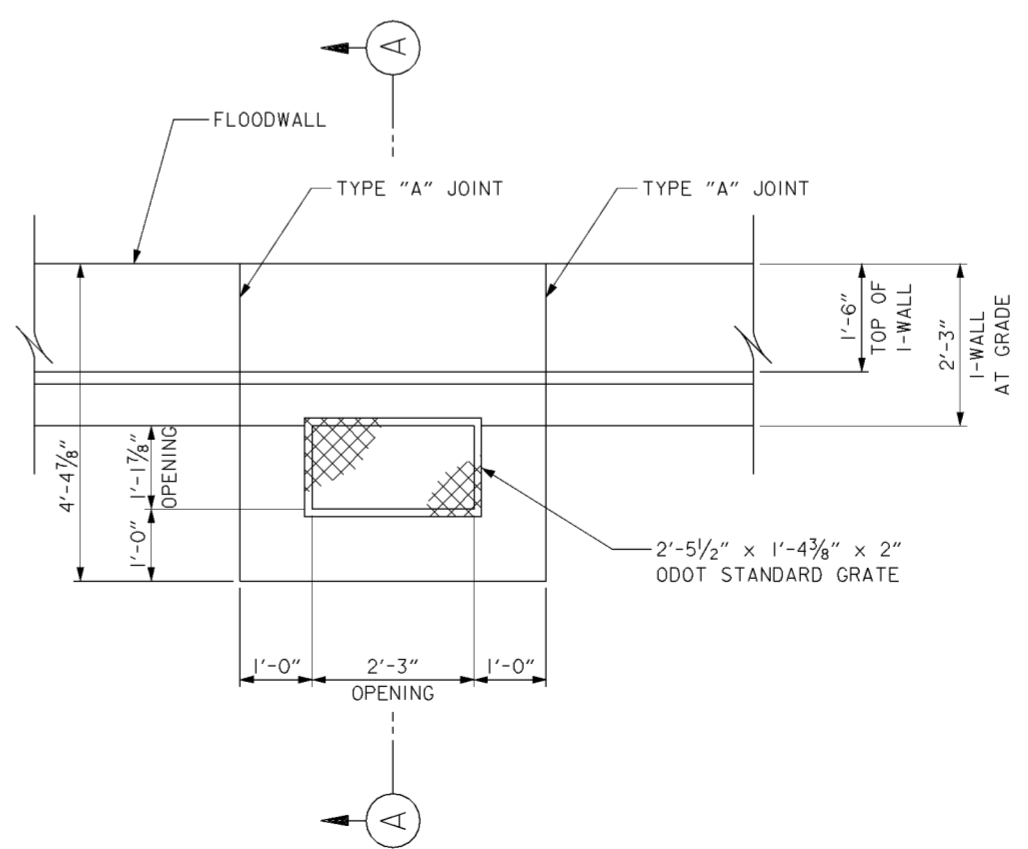
**SECTION A-A
 CATCH BASIN NO. 3-3**

STA. 233+66.45
 SCALE: 3/4" = 1'-0"
 12" 6" 0" 1" 2"



**SECTION A-A
 CATCH BASIN NO. 3-4**

STA. 234+81.44
 SCALE: 3/4" = 1'-0"
 12" 6" 0" 1" 2"

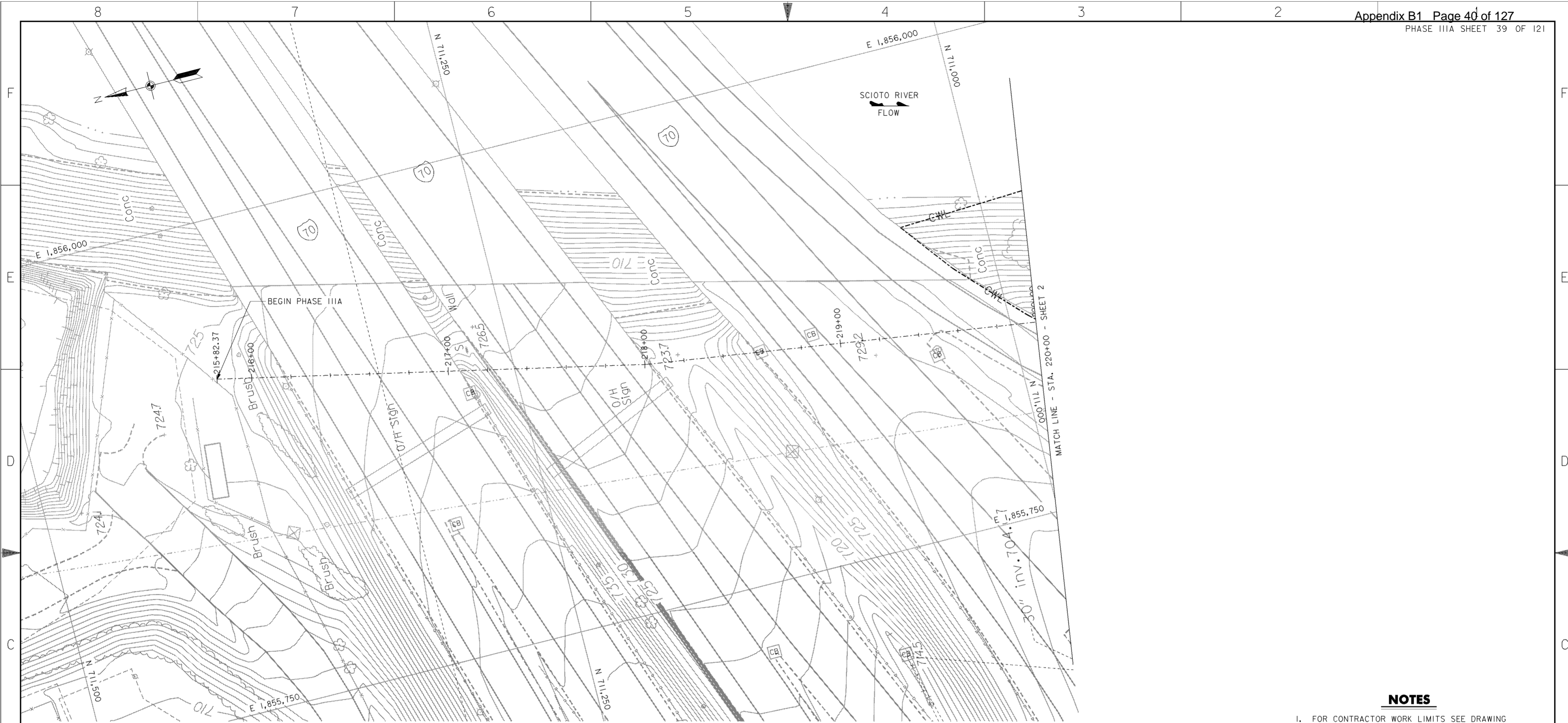


TYPICAL PLAN

SCALE: 3/4" = 1'-0"
 12" 6" 0" 1" 2"

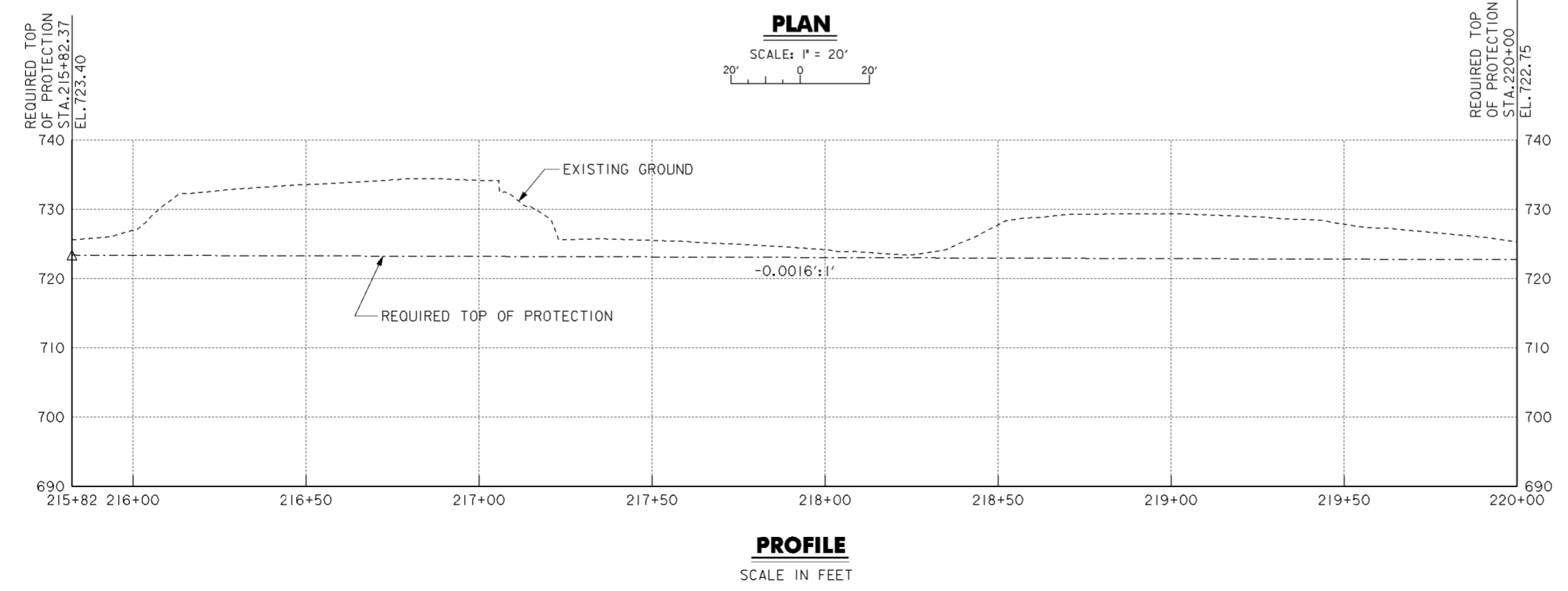
Revisions			
Symbol	Descriptions	Date	Approved

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 IIIA
		Drawn by: T. MULLINS	
Checked by: R. ROMAN	CATCH BASINS PLAN AND SECTIONS		
Reviewed by:			
Approved by:			
Scale: AS SHOWN	Sheet reference number: 15/11	FILENAME: 00d2p01.dgn	PIN TABLE:
Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 1 of 1	15/11



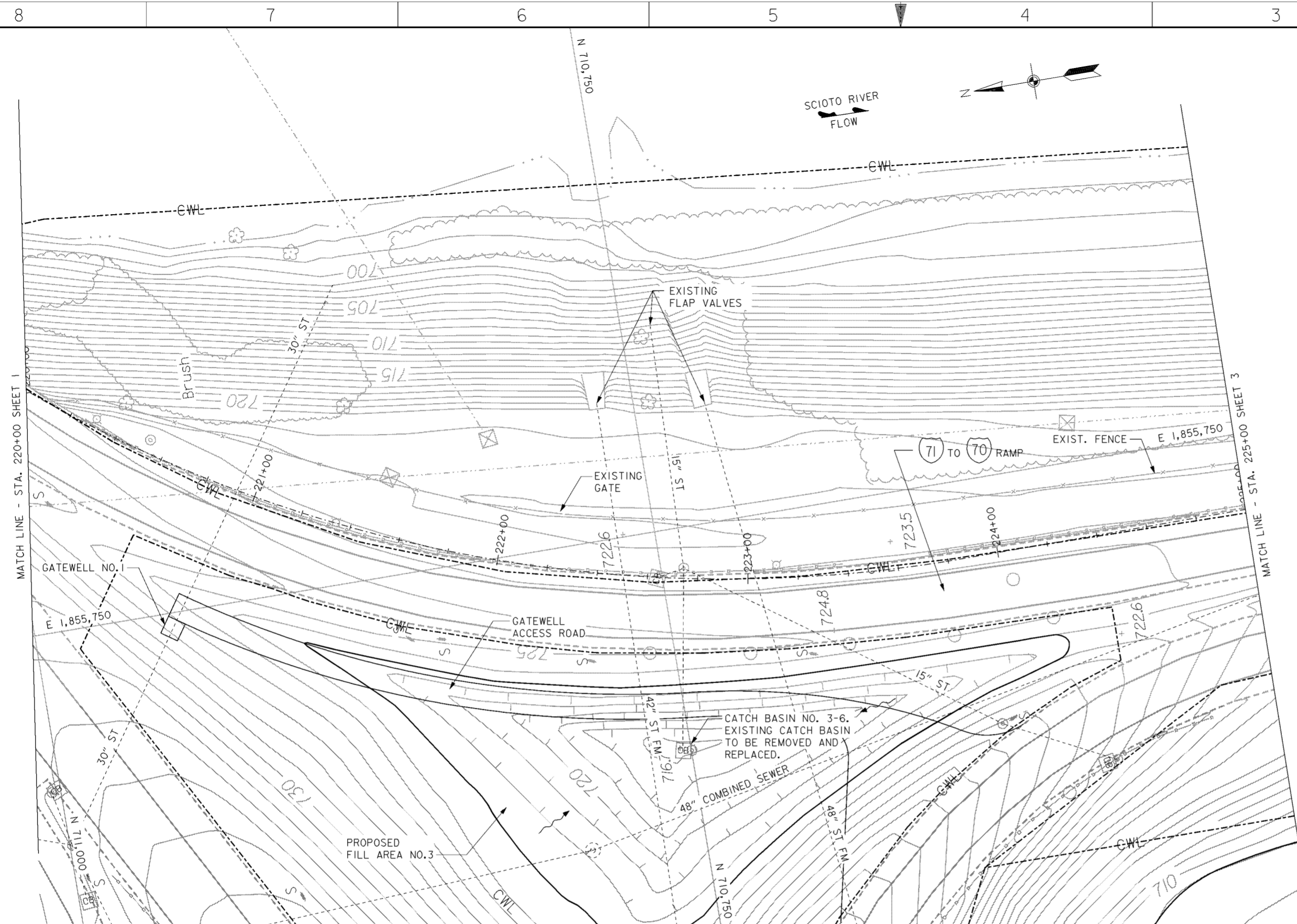
NOTES

- 1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.

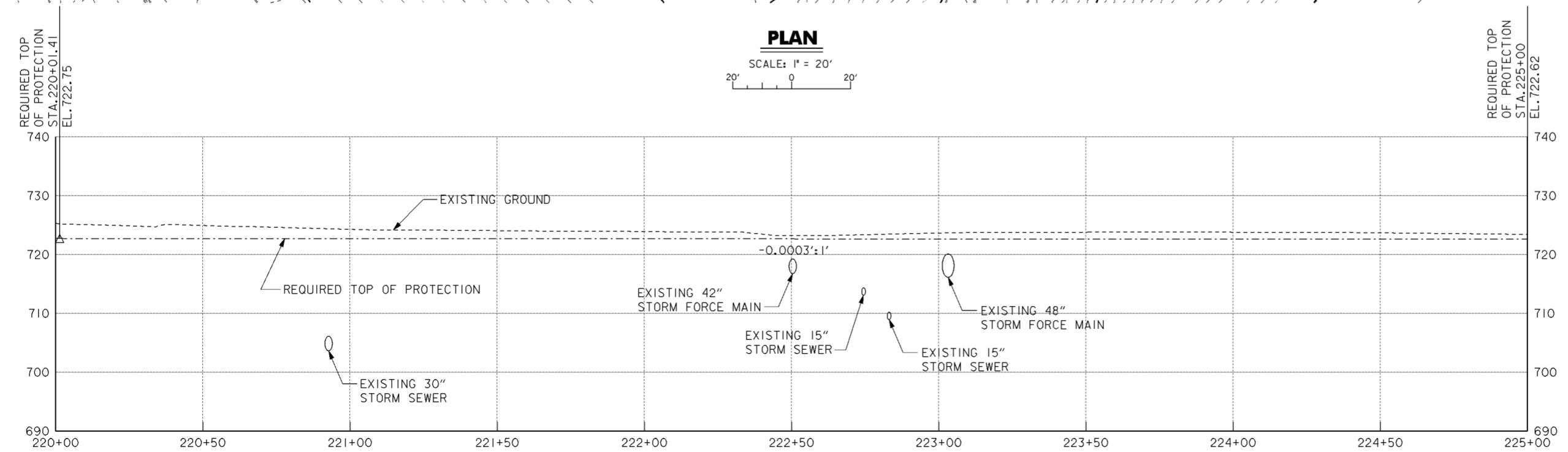


Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		PLAN AND PROFILE STA 215 + 82.37 TO 220 + 00	
Designed by: J. HALL	Drawn by: T. MULLINS	Checked by: P. CONROY	Reviewed by: Scale: AS SHOWN
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet reference number: 161
FILENAME: 00azpp01.dgn PIN TABLE:		Sheet 1 of 10	



PLAN
 SCALE: 1" = 20'

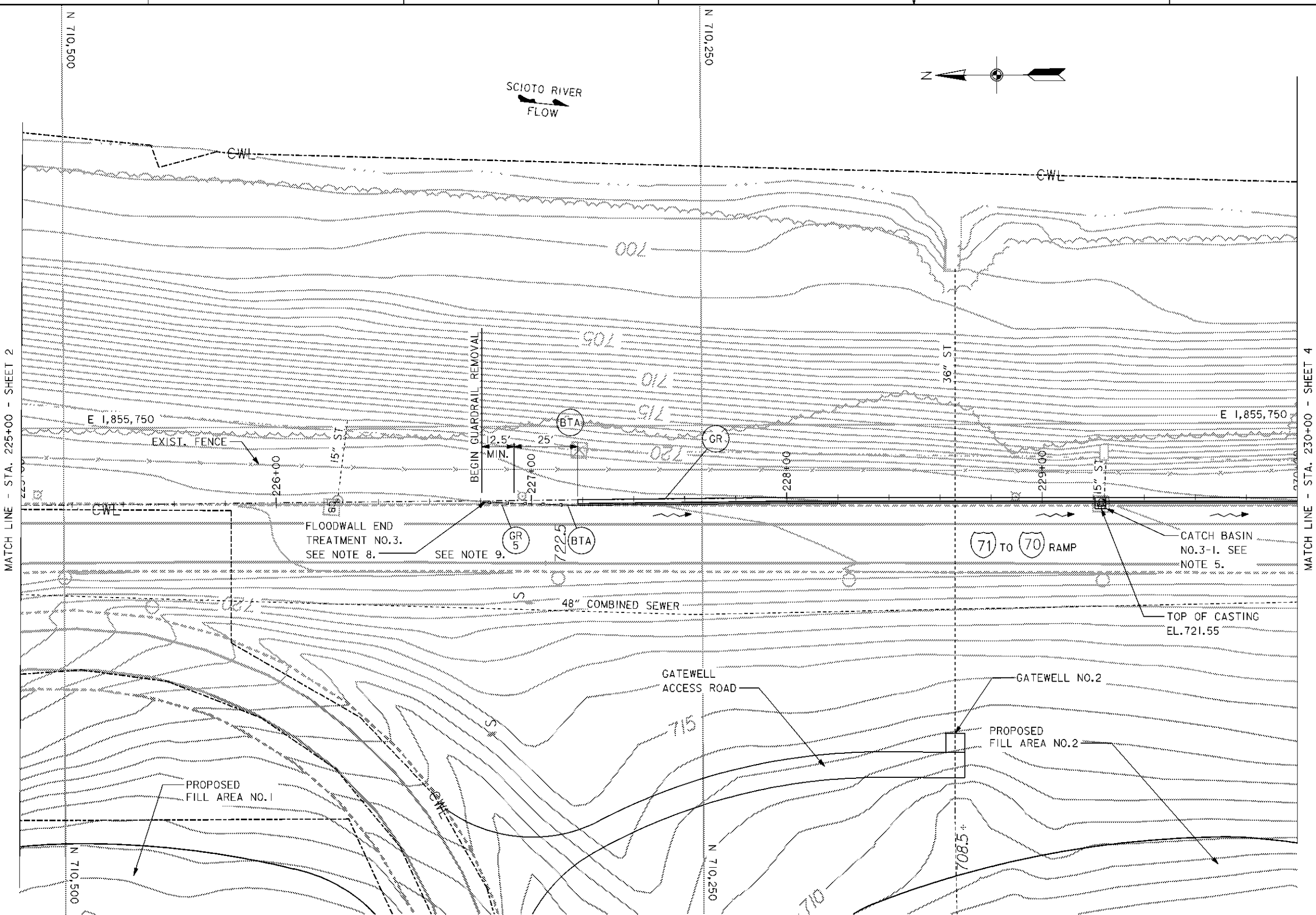


PROFILE
 SCALE IN FEET

- NOTES**
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
 2. FOR FILL AREA NO.3 SITE PLAN SEE DRAWING NO. 20.2/2.
 3. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 15/8.
 4. FOR GATEWELL NO.1 SEE DRAWING NO. 15/1.

Revisions			
Symbol	Descriptions	Date	Approved

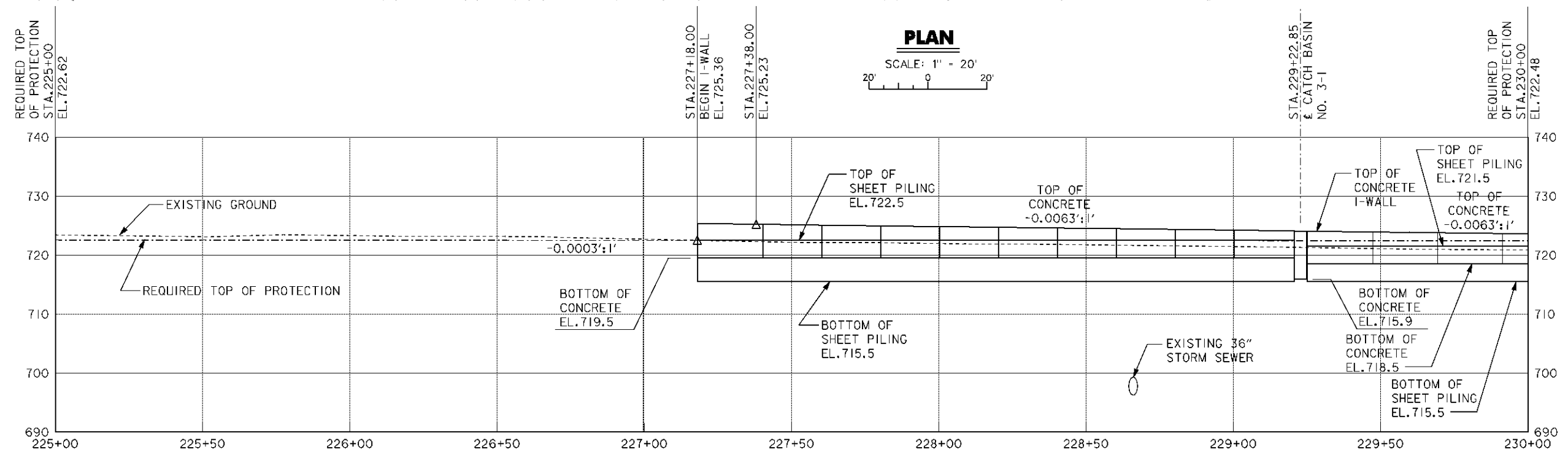
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: J. HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
		Drawn by: T. MULLINS	
Checked by: P. CONROY	PLAN AND PROFILE STA. 220 + 00 TO 225 + 00		
Reviewed by:	Scale: AS SHOWN	Sheet reference number: 162	FILENAME: PIN TABLE: 00azpp02.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 2 of 10



- LEGEND**
- BTA BRIDGE TERMINAL ASSEMBLY, TYPE 1
 - GR GUARDRAIL, TYPE 5
 - GR GUARDRAIL REMOVAL

- NOTES**
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
 2. FOR CATCH BASIN DETAILS SEE DRAWING NO. 15/11.
 3. FOR TAPERED END SECTION DETAILS SEE DRAWING NO. 20.1/3.
 4. FOR TYPICAL I-WALL SECTIONS SEE DRAWING NO. 20.3/1.
 5. EXISTING CATCH BASIN REMOVED FOR CONSTRUCTION OF I-WALL AND REPLACED WITH CATCH BASIN NO.3-1.
 6. FOR PAVEMENT SECTIONS AND PAVEMENT GRADING SEE DRAWING NO. 20.3/2.
 7. I-WALL JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "A" ALL OTHERS ARE TYPE "B". FOR JOINT STATIONS SEE DRAWING NOS. 20.1/5 AND 20.1/6.
 8. FLOODWALL END TREATMENT NO.3 INCLUDES BRIDGE TERMINAL ASSEMBLY (TYPE 1) AND GUARDRAIL (TYPE 5).
 9. PROVIDE A MINIMUM OF 12.5' SECTION OF NEW GUARDRAIL TO TRANSITION TO EXISTING GUARDRAIL.
 10. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO.15/8.
 11. FOR GATEWELL NO.2 SEE DRAWING NO.15/2.

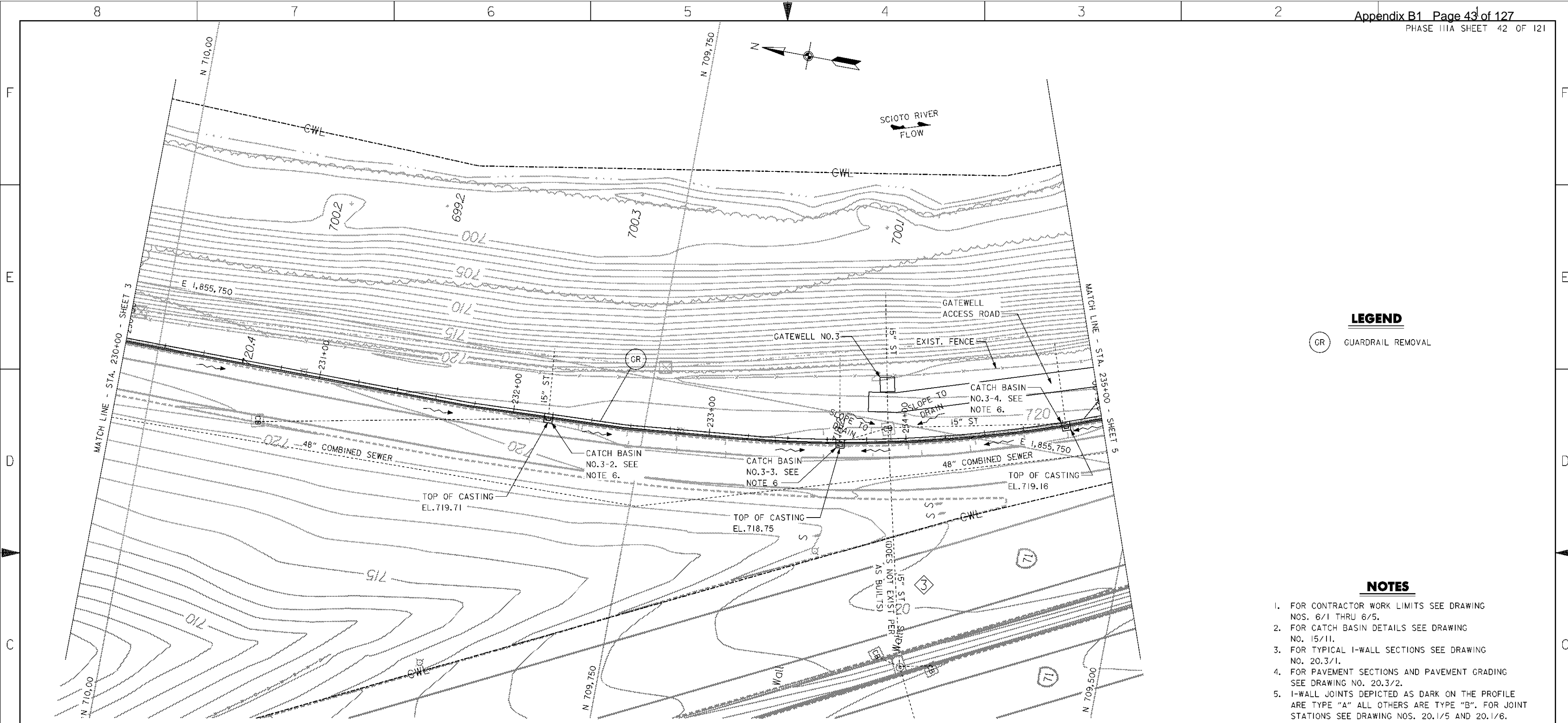
PLAN
 SCALE: 1" = 20'



PROFILE
 SCALE IN FEET

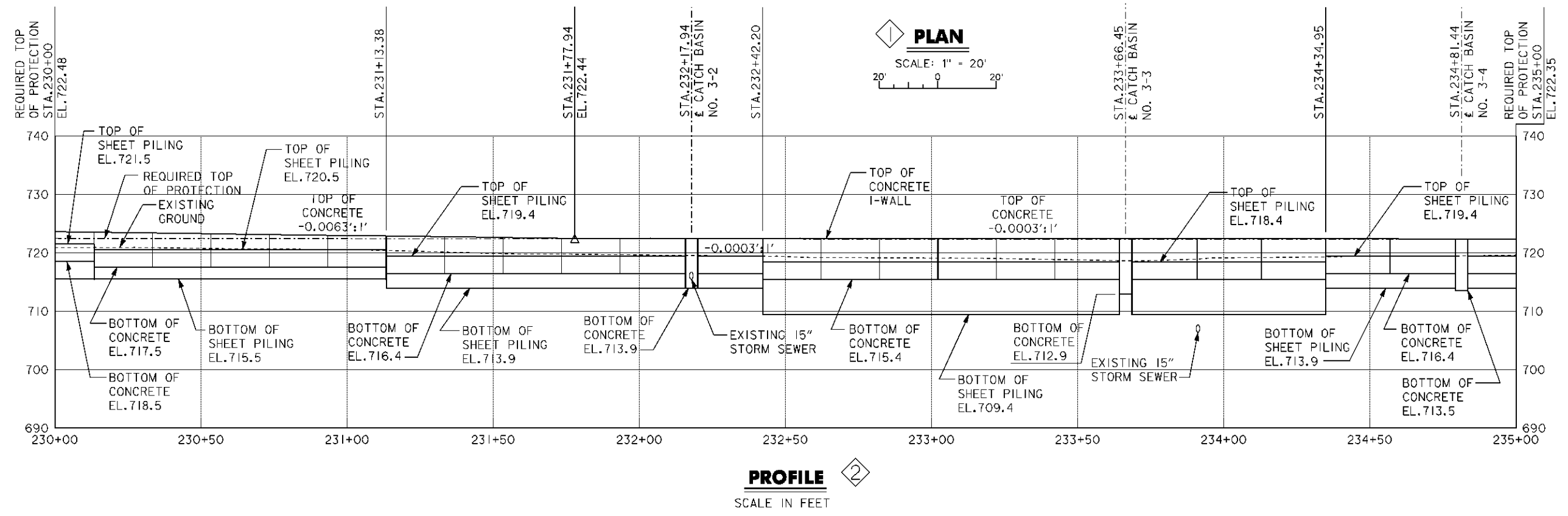
Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. IN ACCORDANCE WITH MODIFICATION MC003	5/17/00	P.O.C.

BURGESS & NIPL, 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 IIIA	
Drawn by:	T. MULLINS		
Checked by:	P. CONROY		
Reviewed by:			
Approved by:		Scale: AS SHOWN	Sheet reference number: 163
		Date: OCTOBER 1999	FILENAME: 00app03.dgn
		Drawing Code: 16-PWC-12-	PEN TABLE: Sheet 3 of 10



LEGEND
 (GR) GUARDRAIL REMOVAL

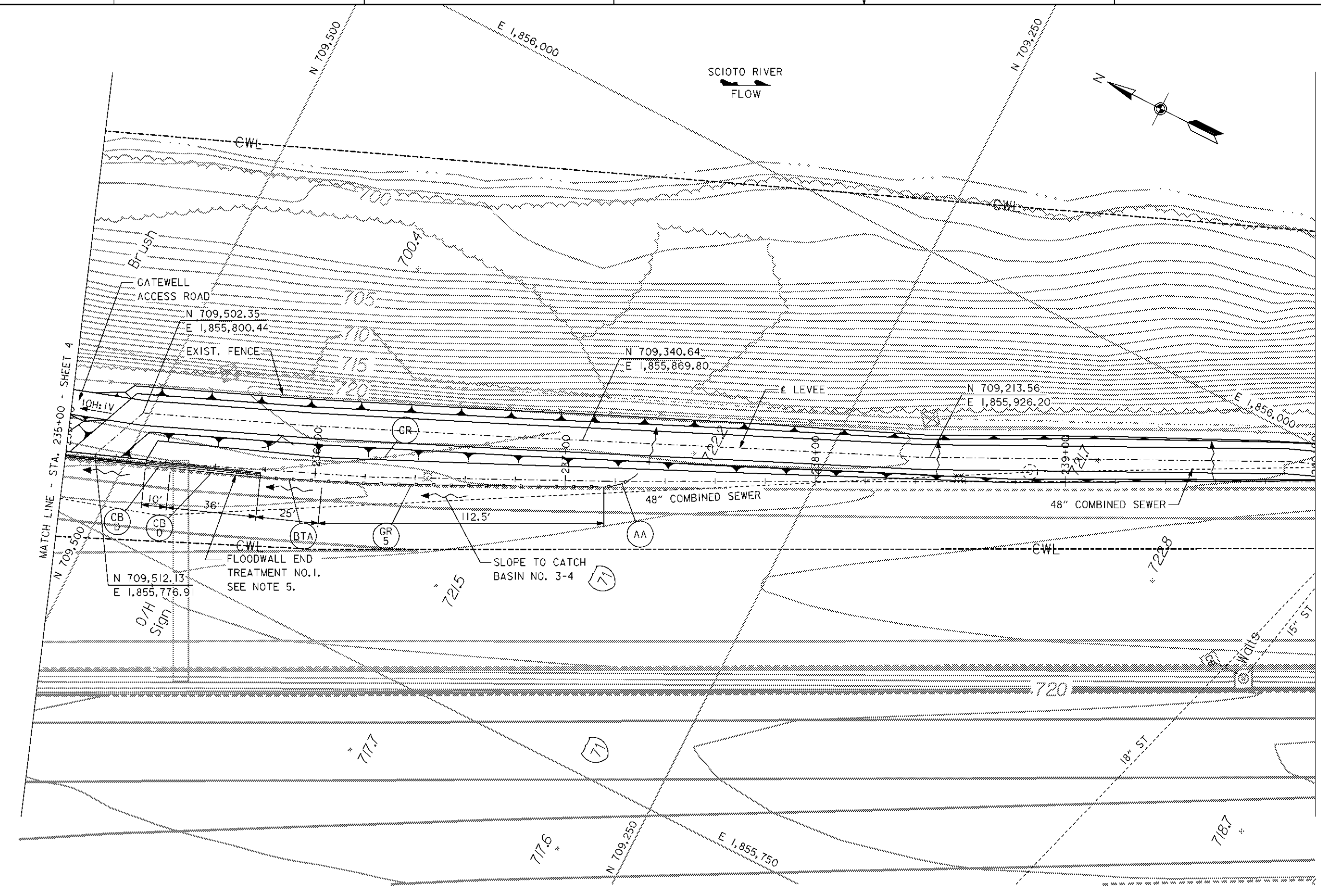
- NOTES**
- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
 - FOR CATCH BASIN DETAILS SEE DRAWING NO. 15/11.
 - FOR TYPICAL I-WALL SECTIONS SEE DRAWING NO. 20.3/1.
 - FOR PAVEMENT SECTIONS AND PAVEMENT GRADING SEE DRAWING NO. 20.3/2.
 - I-WALL JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "A" ALL OTHERS ARE TYPE "B". FOR JOINT STATIONS SEE DRAWING NOS. 20.1/5 AND 20.1/6.
 - EXISTING CATCH BASINS REMOVED FOR CONSTRUCTION OF I-WALL AND REPLACED WITH CATCH BASIN NOS. 3-4.
 - FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 15/8.
 - FOR GATEWELL NO. 3 SEE DRAWING NO. 15/3.



Symbol	Revisions Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED - PHASE IIIA NORTH	4/01	P.O.C.
◊	REV. IN ACCORDANCE WITH MODIFICATION MC003	5/17/00	P.O.C.
◊	REV. IN ACCORDANCE WITH AMENDMENT MC001	2/28/00	P.O.C.

BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J. HALL		SCIO TO RIVER COLUMBUS, OHIO WEST VIRGINIA, L.P.P. PHASE IIIA	
Drawn by: T. MULLINS			
Checked by: P. CONROY		PLAN AND PROFILE STA. 230+00 TO 235+00	
Reviewed by:	Scale: AS SHOWN	Sheet reference number: 16/4	FILENAME: PEN TABLE: atemp04.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 4 of 10

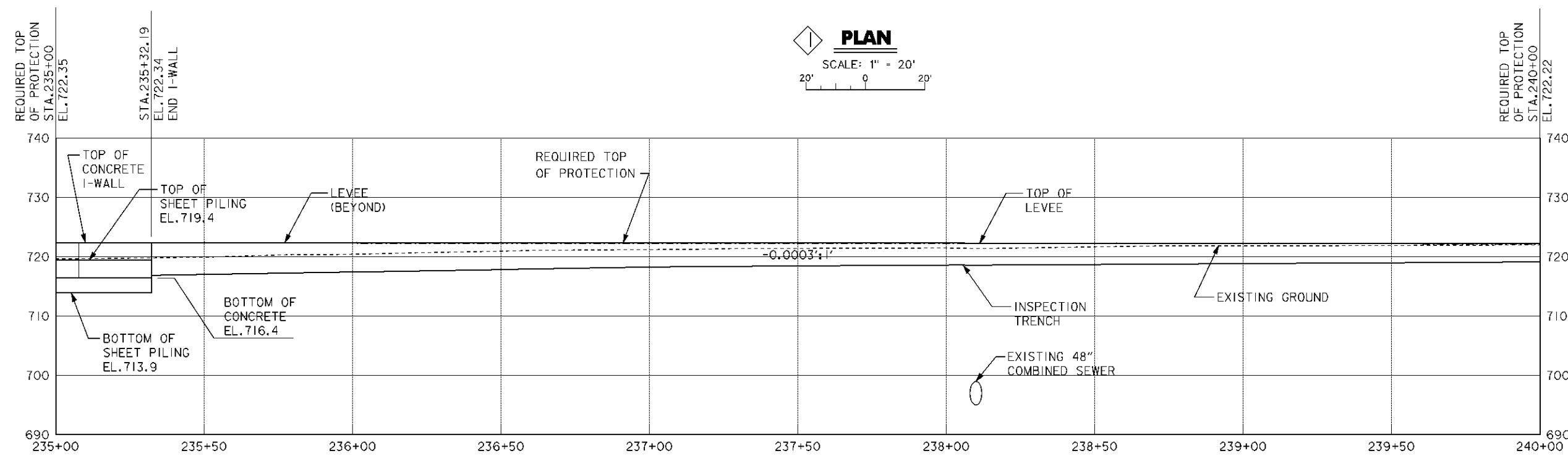
WORK AS CONSTRUCTED



LEGEND

GR	GUARDRAIL REMOVAL
CB D	CONCRETE BARRIER, TYPE D. ODOT STANDARD DRAWING RM-4.3M
CB O	CONCRETE BARRIER, AT OBSTRUCTION, TYPE D. ODOT STANDARD DRAWING RM-4.5M
BTA	BRIDGE TERMINAL ASSEMBLY, TYPE I. ODOT STANDARD DRAWING CR-3.1M
GR 5	GUARDRAIL, TYPE 5. ODOT STANDARD DRAWING CR-2.1M
AA	ANCHOR ASSEMBLY, TYPE B. ODOT STANDARD DRAWING CR-4.3M

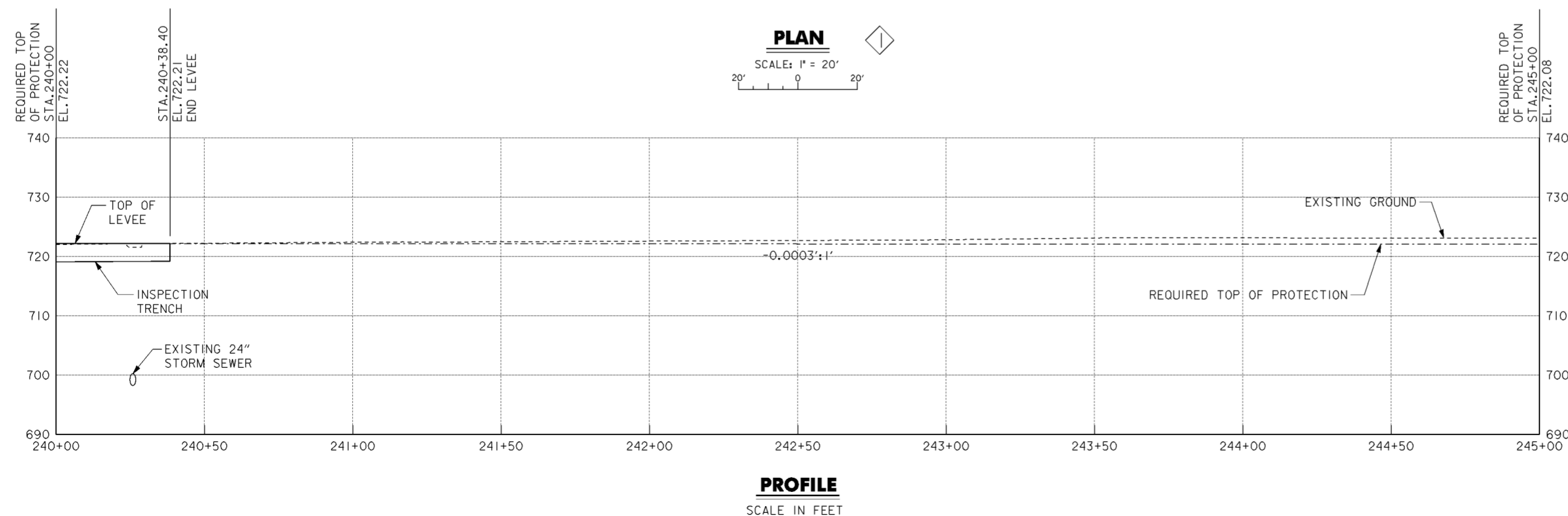
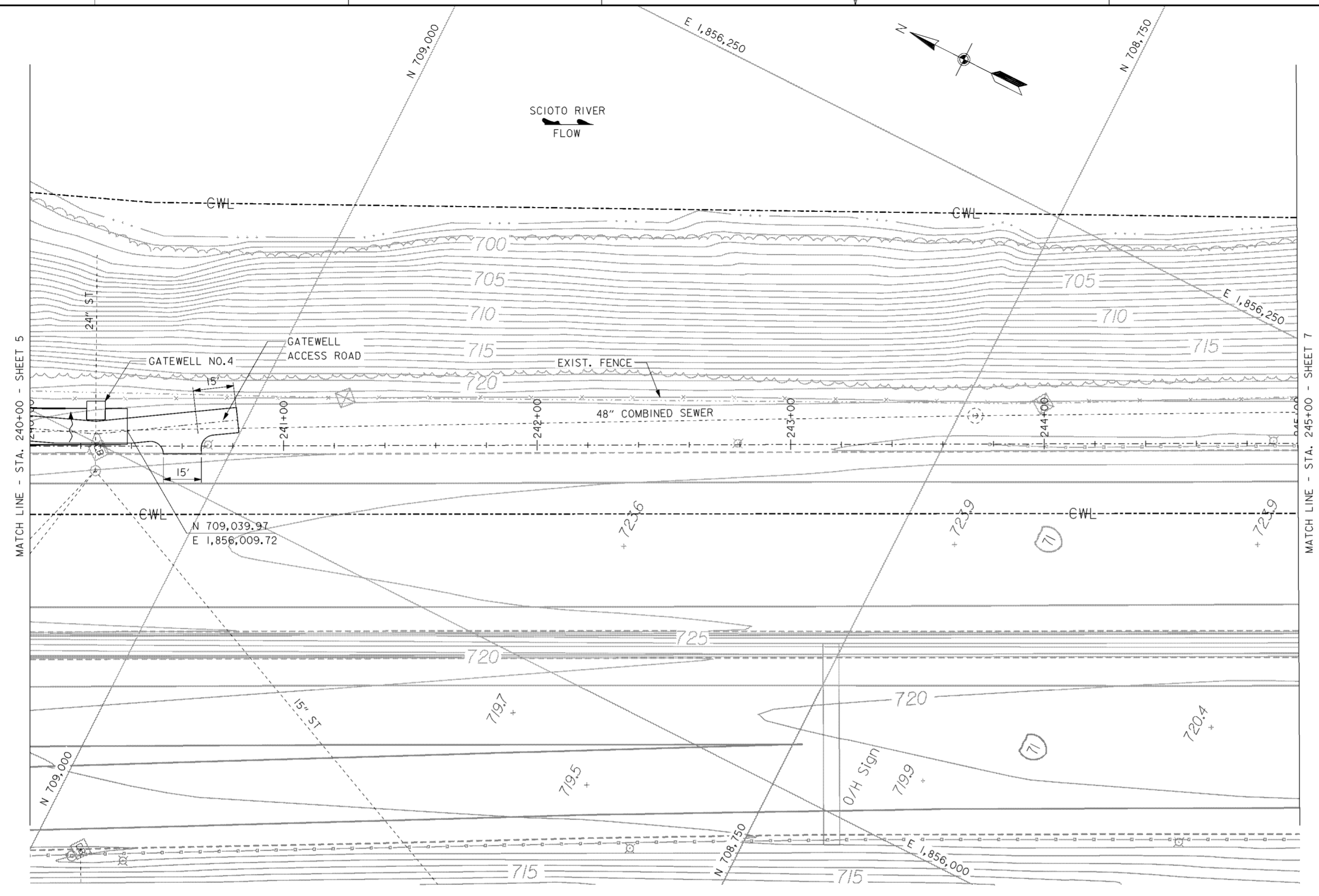
- NOTES**
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
 2. FOR TYPICAL I-WALL AND LEVEE SECTIONS SEE DRAWING NO. 20.3/1.
 3. FOR PAVEMENT SECTIONS AND PAVEMENT GRADING SEE DRAWING NO. 20.3/2.
 4. I-WALL JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "A" ALL OTHERS ARE TYPE "B". FOR JOINT STATIONS SEE DRAWING NOS. 20.1/5 AND 20.1/6.
 5. FLOODWALL END TREATMENT NO. 1 INCLUDES CONCRETE BARRIER, TYPE D, BRIDGE TERMINAL ASSEMBLY (TYPE I), GUARDRAIL (TYPE 5) AND ANCHOR ASSEMBLY (TYPE B).
 6. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 15/8.



Revisions			
Symbol	Descriptions	Date	Approved
◇	REV. IN ACCORDANCE WITH MODIFICATION MC003	5/17/00	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT MC001	2/28/00	P.O.C.

BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J. HALL	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	PLAN AND PROFILE STA. 235 + 00 TO 240 + 00
Checked by: P. CONROY	Scale: A5 SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-
	Sheet reference number: 165
	FILENAME: 00app03.dgn
	PEN TABLE: Sheet 5 of 10

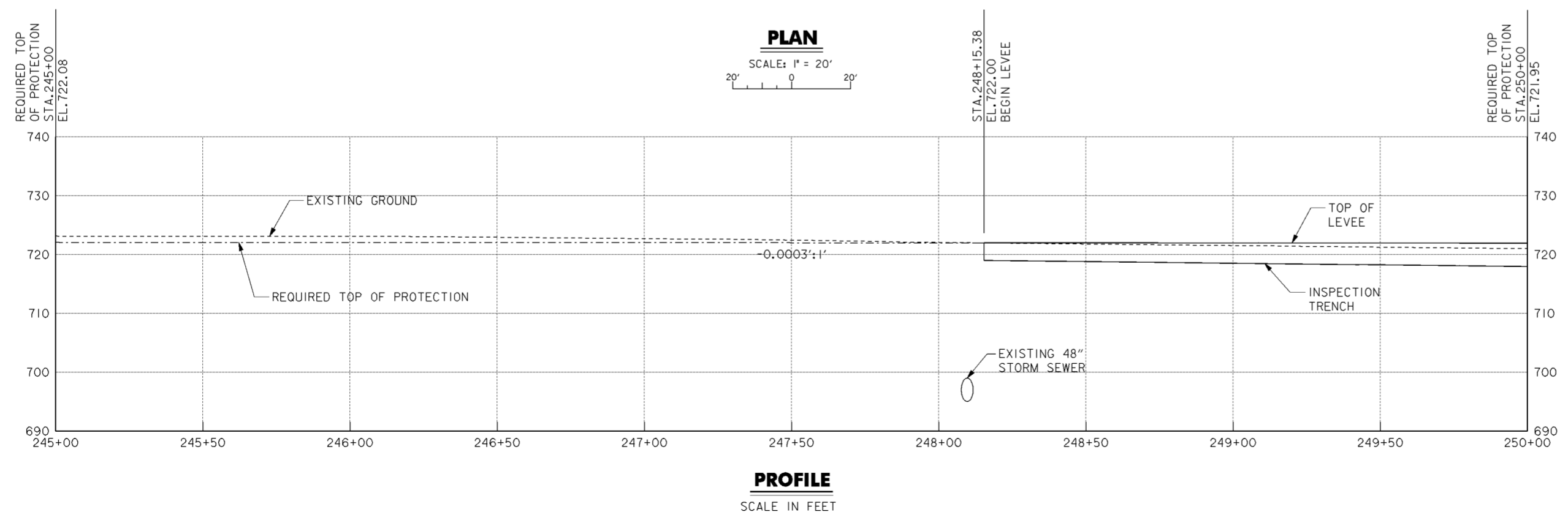
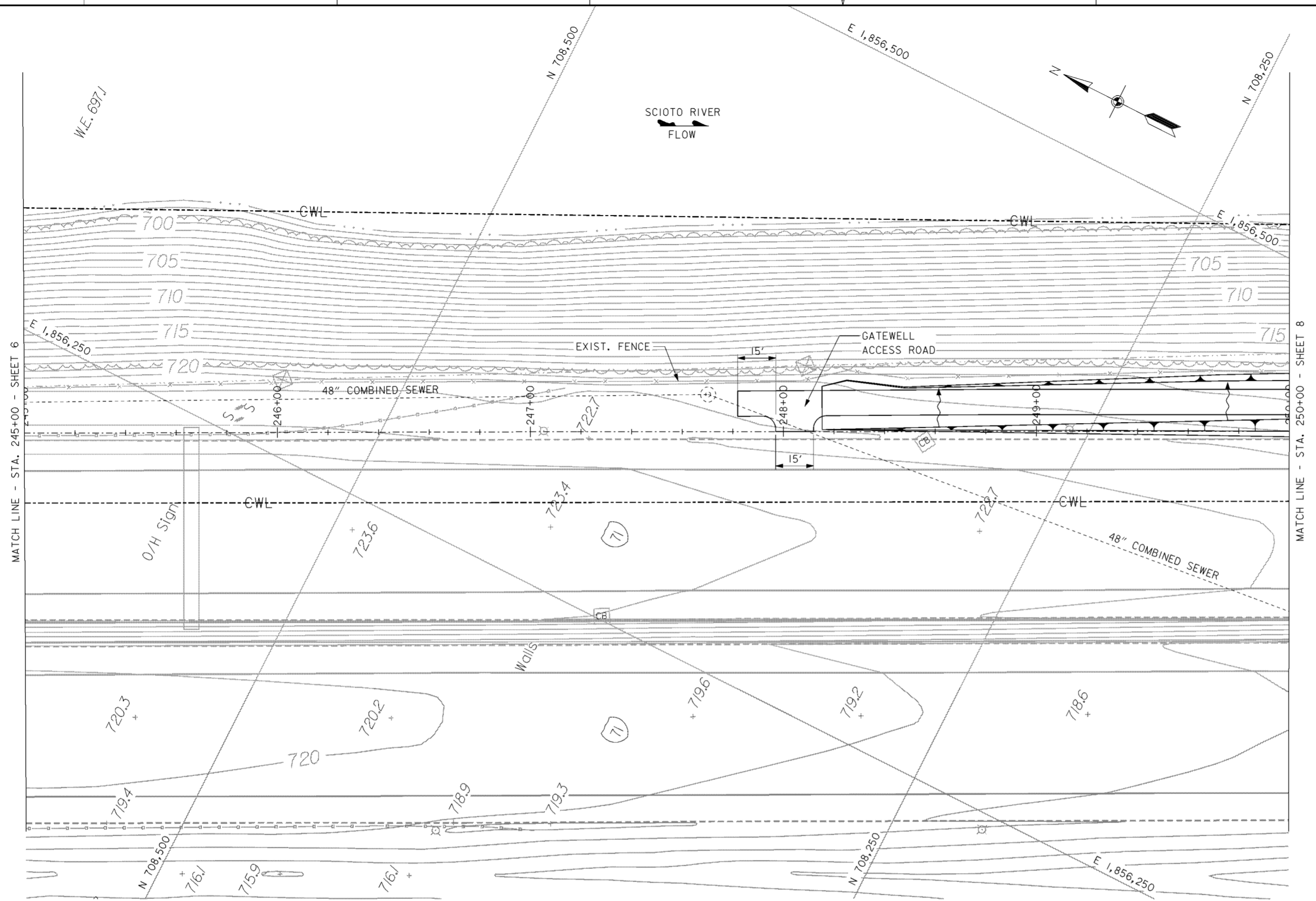
WORK AS CONSTRUCTED



- NOTES**
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS.6/1 THRU 6/5.
 2. FOR TYPICAL LEVEE SECTION SEE DRAWING NO.20.3/1.
 3. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO.15/8.
 4. FOR GATEWELL NO.4 SEE DRAWING NO.15/4.

Revisions			
Symbol	Descriptions	Date	Approved
REV. IN ACCORDANCE WITH AMENDMENT MC001 2/28/00 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 IIIA		
Drawn by: T. MULLINS	PLAN AND PROFILE STA. 240+00 TO 245+00		
Checked by: P. CONROY	Scale: AS SHOWN	Sheet reference number: 16/6	FILENAME: PIN TABLE: 00azpp06.dgn
Reviewed by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 6 of 10
Approved by:			

WORK AS CONSTRUCTED

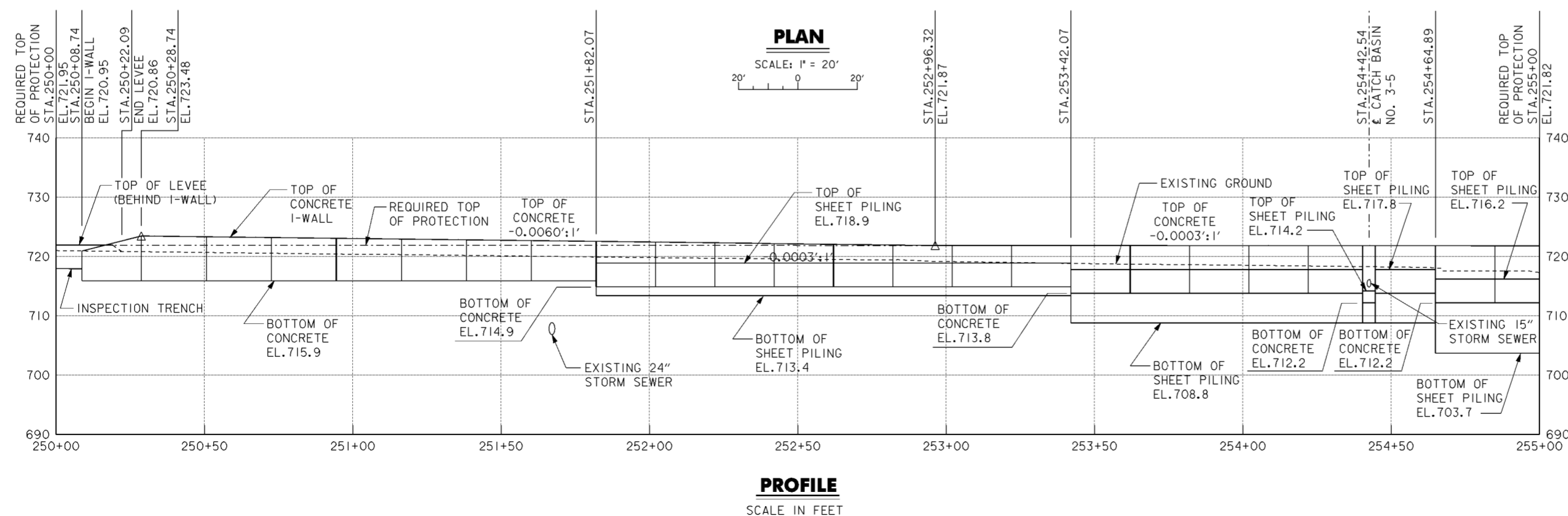
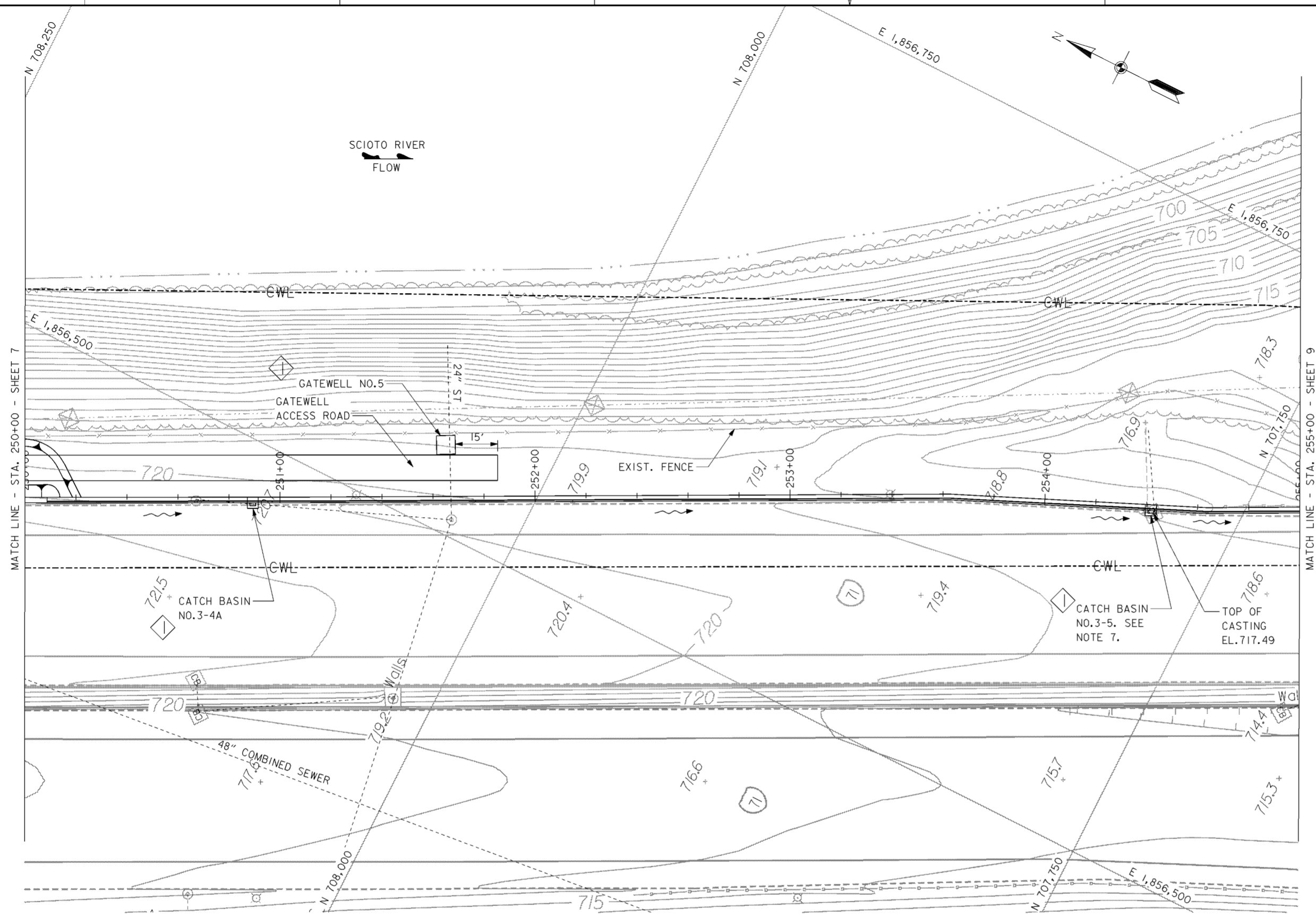


- NOTES**
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
 2. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 20.3/1.
 3. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 15/8.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		PLAN AND PROFILE STA. 245 + 00 TO 250 + 00	
Designed by: J. HALL	Drawn by: T. MULLINS	Checked by: P. CONROY	Reviewed by: Scale: AS SHOWN
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet reference number: 16/7
FILENAME: 00azpp07.dgn		PEN TABLE: Sheet 7 of 10	

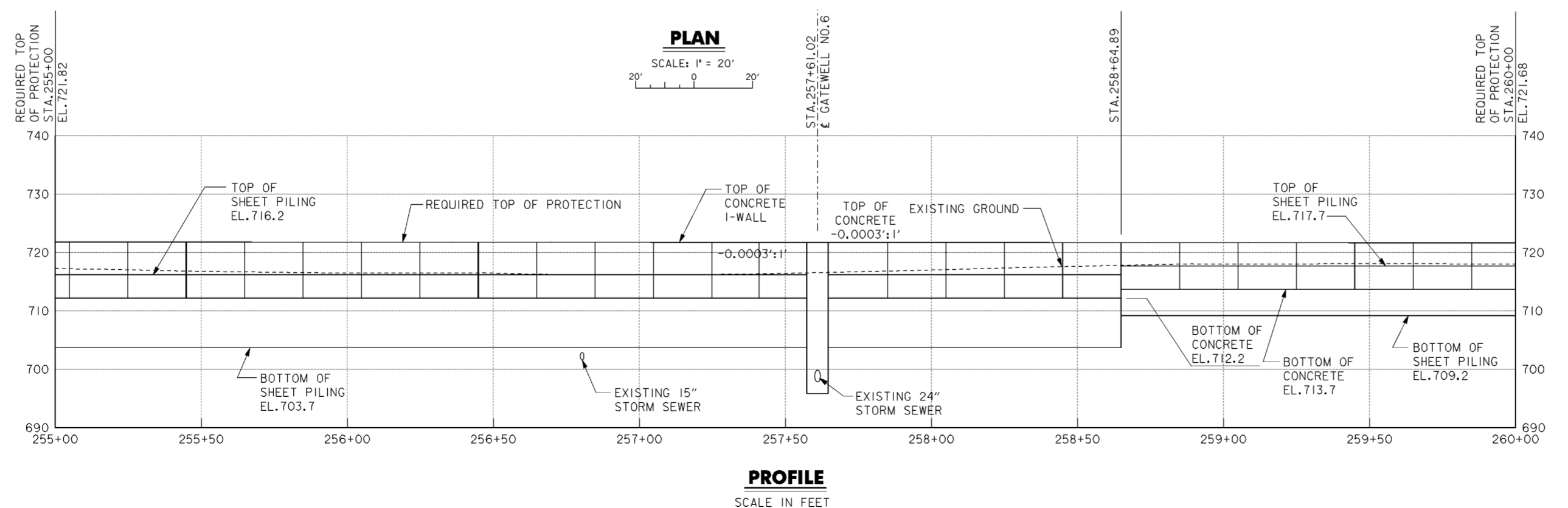
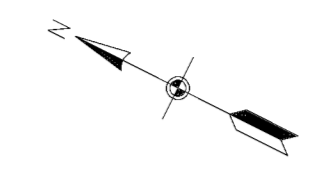
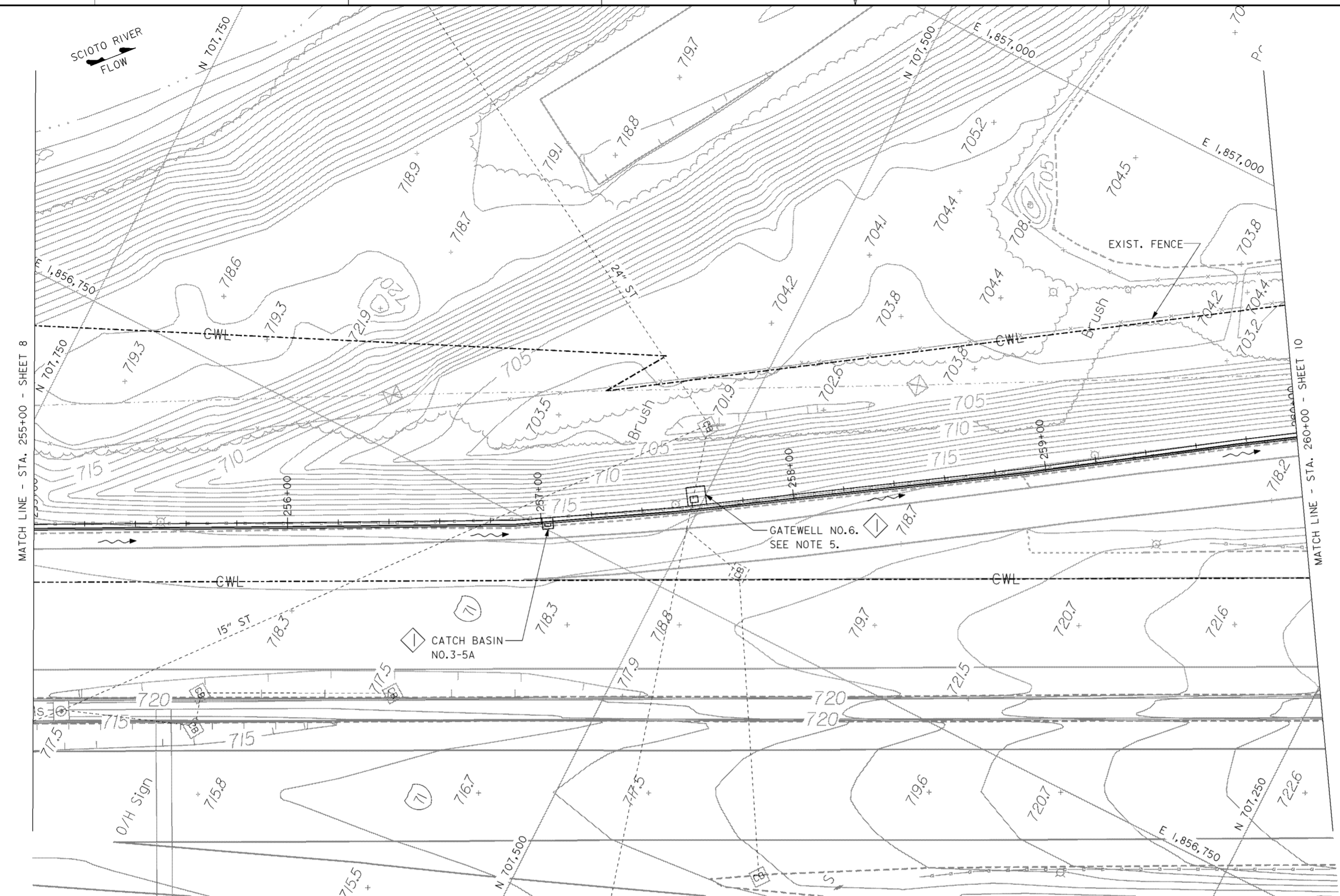
WORK AS CONSTRUCTED



- NOTES**
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
 2. FOR CATCH BASIN DETAILS SEE DRAWING NO. 15/11.
 3. FOR TAPERED END SECTION DETAILS SEE DRAWING NO. 20.1/3.
 4. FOR TYPICAL I-WALL AND LEVEE SECTIONS SEE DRAWING NO. 20.3/1.
 5. FOR PAVEMENT SECTIONS AND PAVEMENT GRADING SEE DRAWING NO. 20.3/2.
 6. I-WALL JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "A" ALL OTHERS ARE TYPE "B". FOR JOINT STATIONS SEE DRAWING NOS. 20.1/7 AND 20.1/8.
 7. EXISTING CATCH BASIN REMOVED FOR CONSTRUCTION OF I-WALL AND REPLACED WITH CATCH BASIN NO. 3-5.
 8. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 15/8.
 9. FOR GATEWELL NO.5 SEE DRAWING NO. 15/5.

Revisions			
Symbol	Descriptions	Date	Approved
◊ REVISED AS CONSTRUCTED - PHASE IIIA SOUTH 4/01 P.O.C.			
BURGESS & NIPL, 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 IIIA		
Drawn by: T. MULLINS	PLAN AND PROFILE STA. 250+00 TO 255+00		
Checked by: P. CONROY	Scale: AS SHOWN	Sheet reference number: 16/8	FILENAME: a0zpp08.dgn
Reviewed by: _____	Date: OCTOBER 1999	PEN TABLE:	
Approved by: _____	Drawing Code: 16-PWC-12-	Sheet 8 of 10	

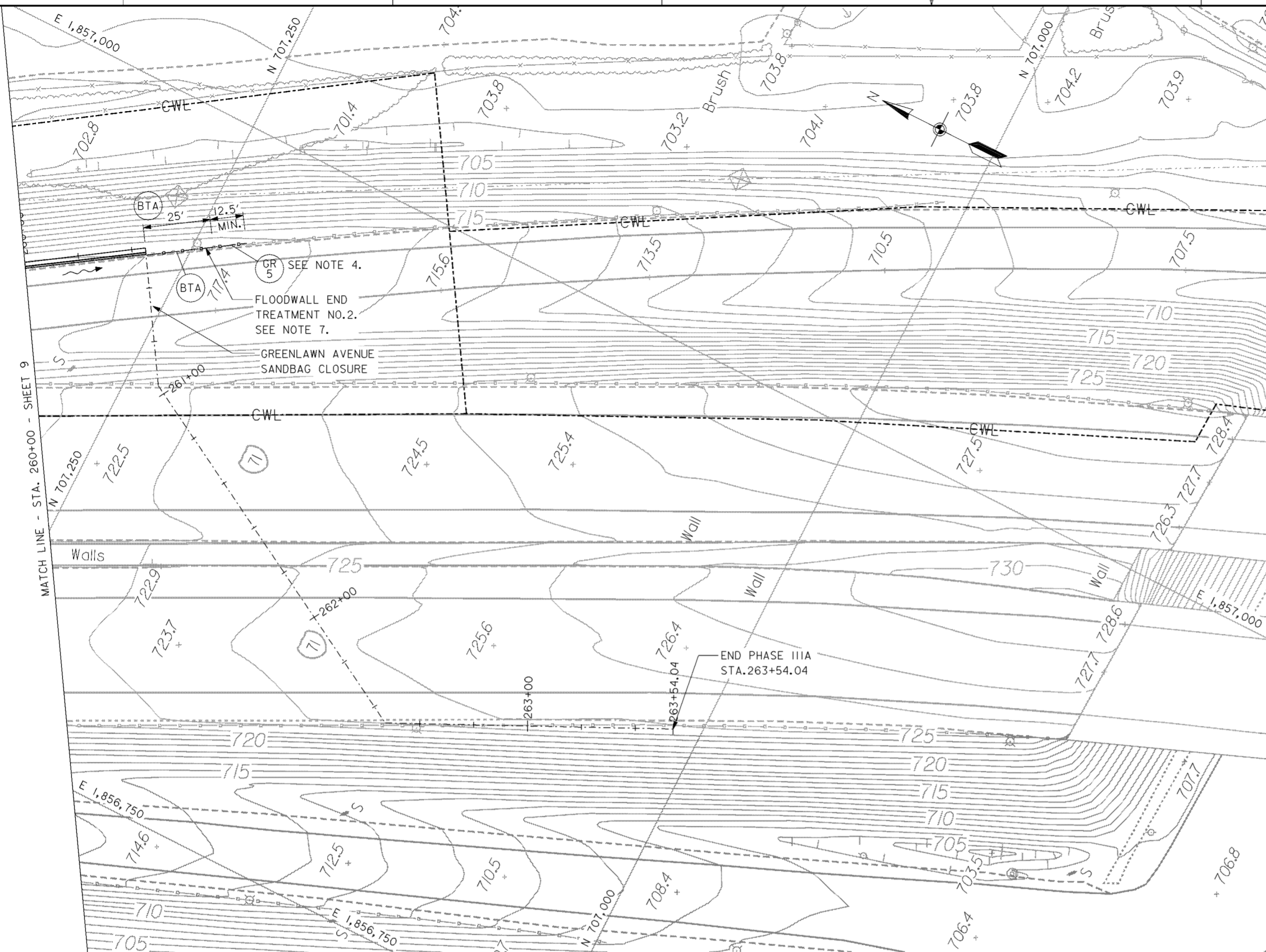
WORK AS CONSTRUCTED



- NOTES**
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
 2. FOR TYPICAL I-WALL SECTIONS SEE DRAWING NO. 20.3/1.
 3. FOR PAVEMENT SECTIONS AND PAVEMENT GRADING SEE DRAWING NO. 20.3/2.
 4. I-WALL JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "A" ALL OTHERS ARE TYPE "B". FOR JOINT STATIONS SEE DRAWING NOS. 20.1/7 AND 20.1/8.
 5. FOR GATEWELL NO. 6 DETAILS SEE DRAWING NOS. 15/7 AND 15/10.

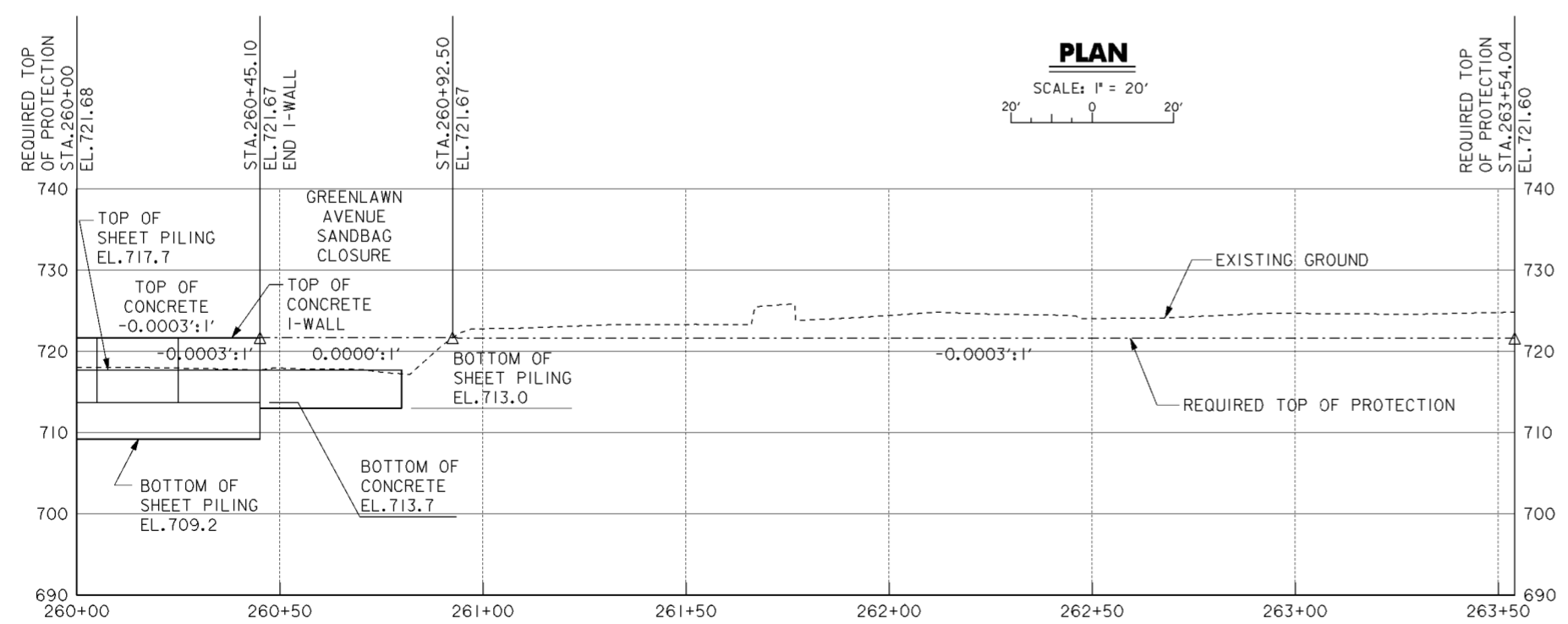
Revisions			
Symbol	Descriptions	Date	Approved
◊ REVISED AS CONSTRUCTED - PHASE IIIA SOUTH 4/01 P.O.C.			
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS WEST COLUMBUS, L.P.P. PHASE IIIA	
Designed by: J. HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
Drawn by: T. MULLINS	PLAN AND PROFILE STA. 255 + 00 TO 260 + 00		
Checked by: P. CONROY	Scale: AS SHOWN	Sheet reference number: 16/9	FILENAME: a0zpp09.dgn
Reviewed by: _____	Date: OCTOBER 1999	PEN TABLE: _____	
Approved by: _____	Drawing Code: 16-PWC-12-	Sheet 9 of 10	

WORK AS CONSTRUCTED



- LEGEND**
- (BTA) BRIDGE TERMINAL ASSEMBLY, TYPE 1
 - (GR 5) GUARDRAIL, TYPE 5

- NOTES**
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
 2. FOR TYPICAL I-WALL SECTIONS SEE DRAWING NO. 20.3/1.
 3. FOR GREENLAWN AVENUE SANDBAG CLOSURE SEE DRAWING NO. 20.2/1.
 4. PROVIDE A MINIMUM OF 12.5' SECTION OF NEW GUARDRAIL TO TRANSITION TO EXISTING GUARDRAIL.
 5. FOR PAVEMENT SECTIONS AND PAVEMENT GRADING SEE DRAWING NO. 20.3/2.
 6. I-WALL JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "A" ALL OTHERS ARE TYPE "B". FOR JOINT STATIONS SEE DRAWING NOS. 20.1/7 AND 20.1/8.
 7. FLOODWALL END TREATMENT NO.2 INCLUDES BRIDGE TERMINAL ASSEMBLY (TYPE 1) AND GUARDRAIL (TYPE 5).

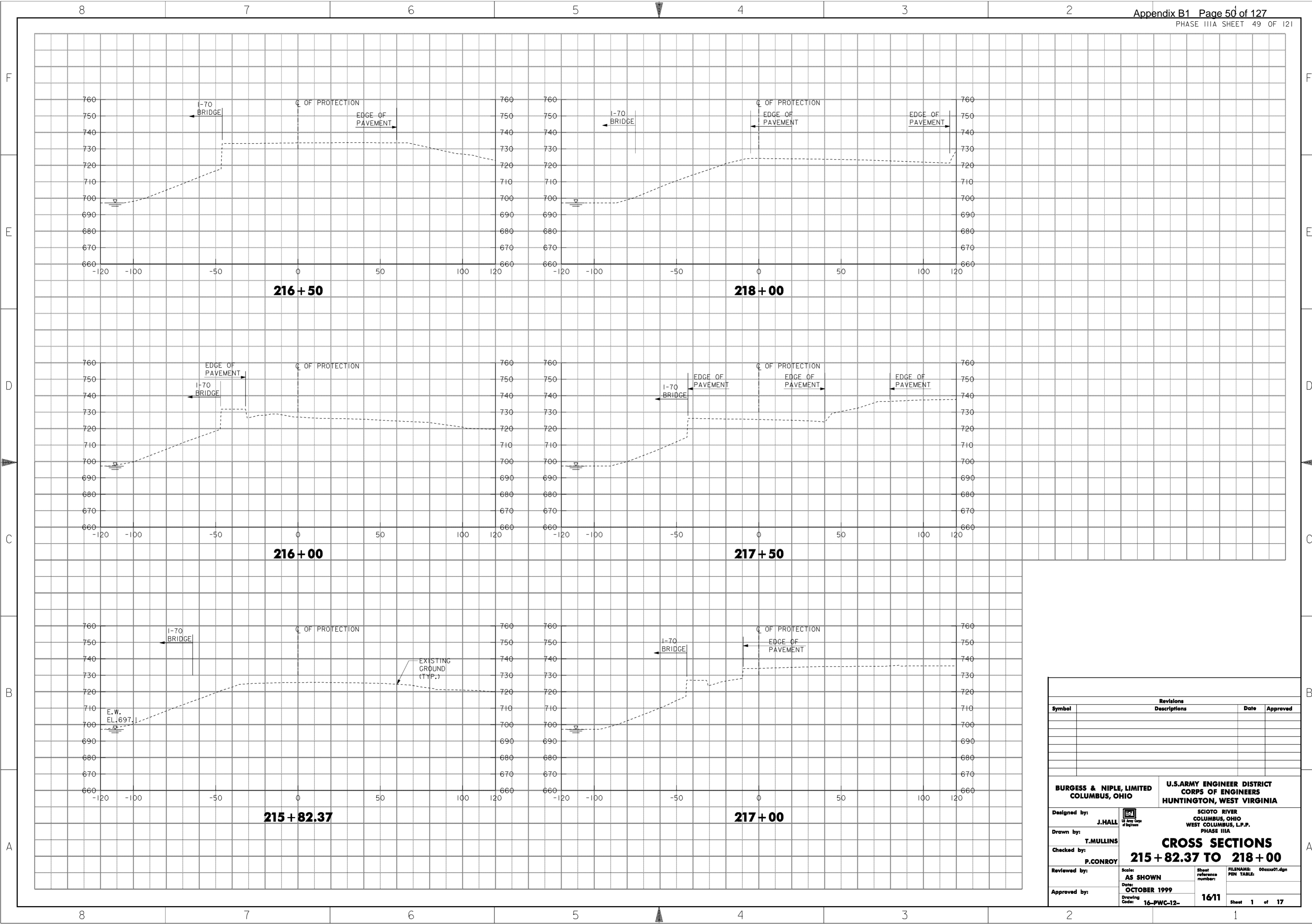


PLAN
 SCALE: 1" = 20'

PROFILE
 SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved

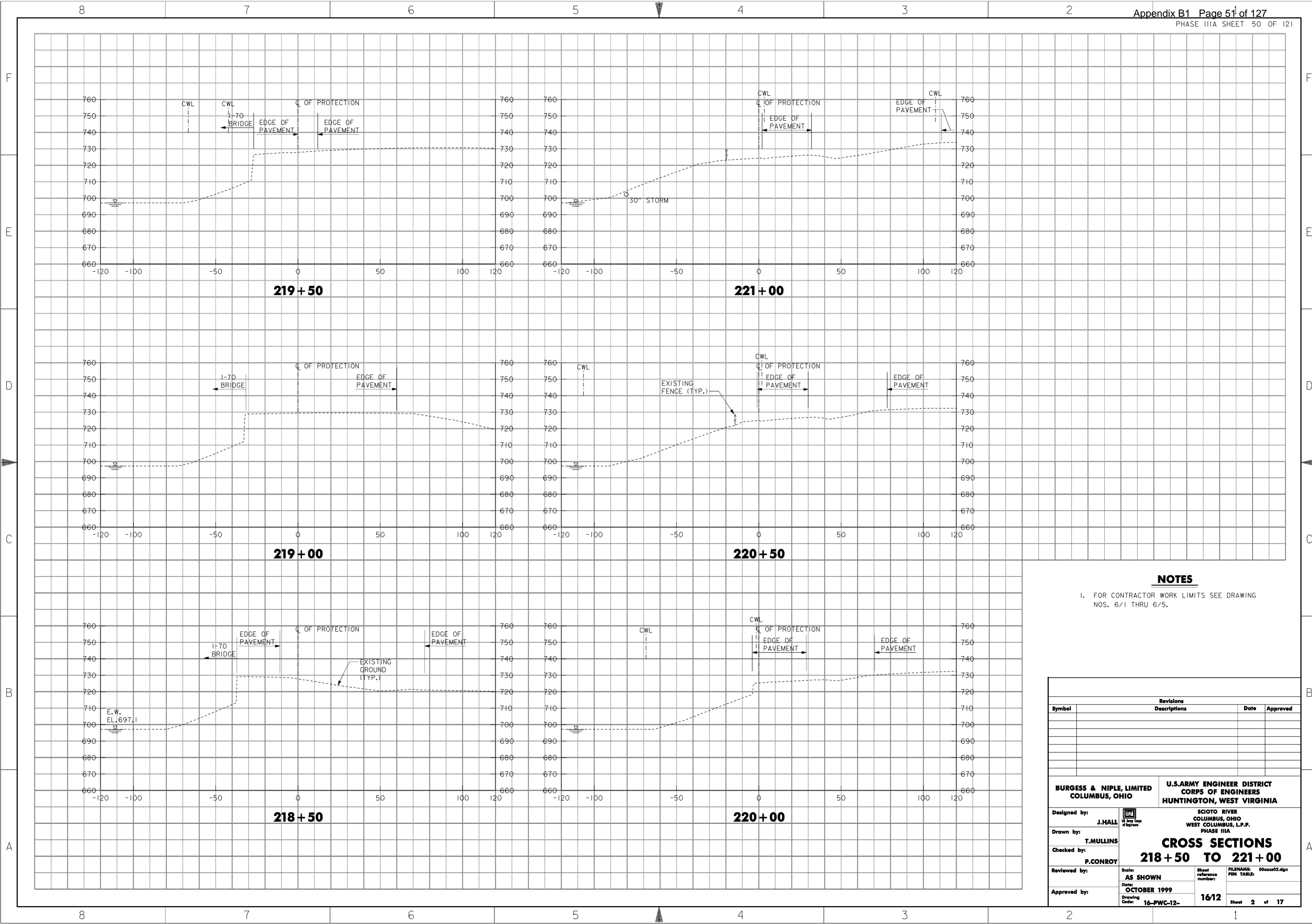
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: J. HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
		Drawn by: T. MULLINS	
Checked by: P. CONROY	PLAN AND PROFILE STA 260 + 00 TO 263 + 54.04		
Reviewed by: AS SHOWN	Scale: AS SHOWN	Sheet reference number: 16/10	FILENAME: 00azpp10.dgn PIN TABLE:
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 10 of 10



Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		CROSS SECTIONS 215 + 82.37 TO 218 + 00	
Designed by: J. HALL	 U.S. Army Corps of Engineers	Drawn by: T. MULLINS	FILENAME: 00axx01.dgn
Checked by: P. CONROY		Scale: AS SHOWN	Sheet reference number: 16/11
Reviewed by:		Date: OCTOBER 1999	PEN TABLE:
Approved by:		Drawing Code: 16-PWC-12-	Sheet 1 of 17

WORK AS CONSTRUCTED



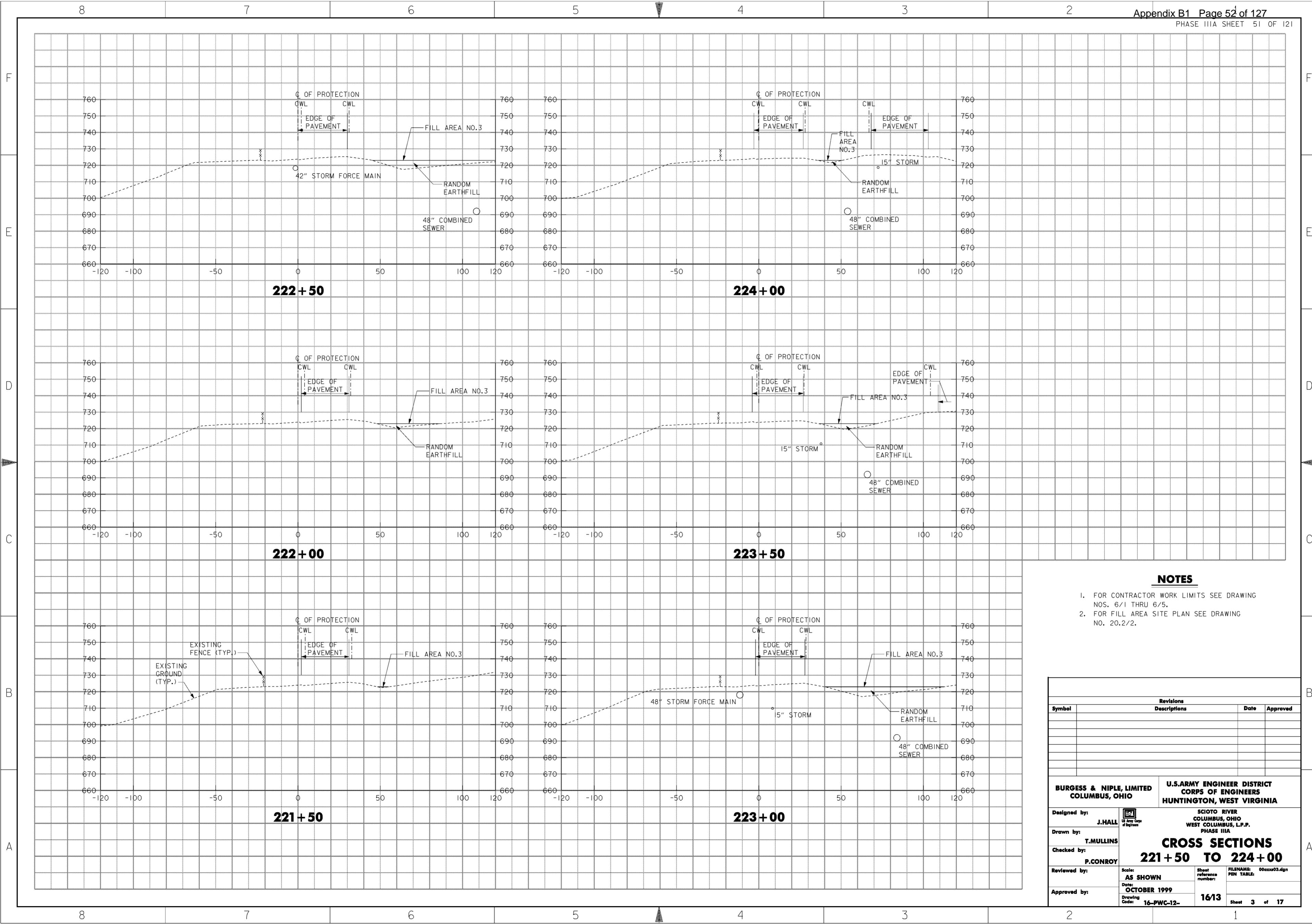
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.

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	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by:	T. MULLINS	CROSS SECTIONS 218 + 50 TO 221 + 00	
Checked by:	P. CONROY	Scale:	AS SHOWN
Reviewed by:		Date:	OCTOBER 1999
Approved by:		Drawing Code:	16-PWC-12-
		Sheet reference number:	16/12
		FILENAME:	00axx02.dgn
		PIN TABLE:	
			Sheet 2 of 17

WORK AS CONSTRUCTED

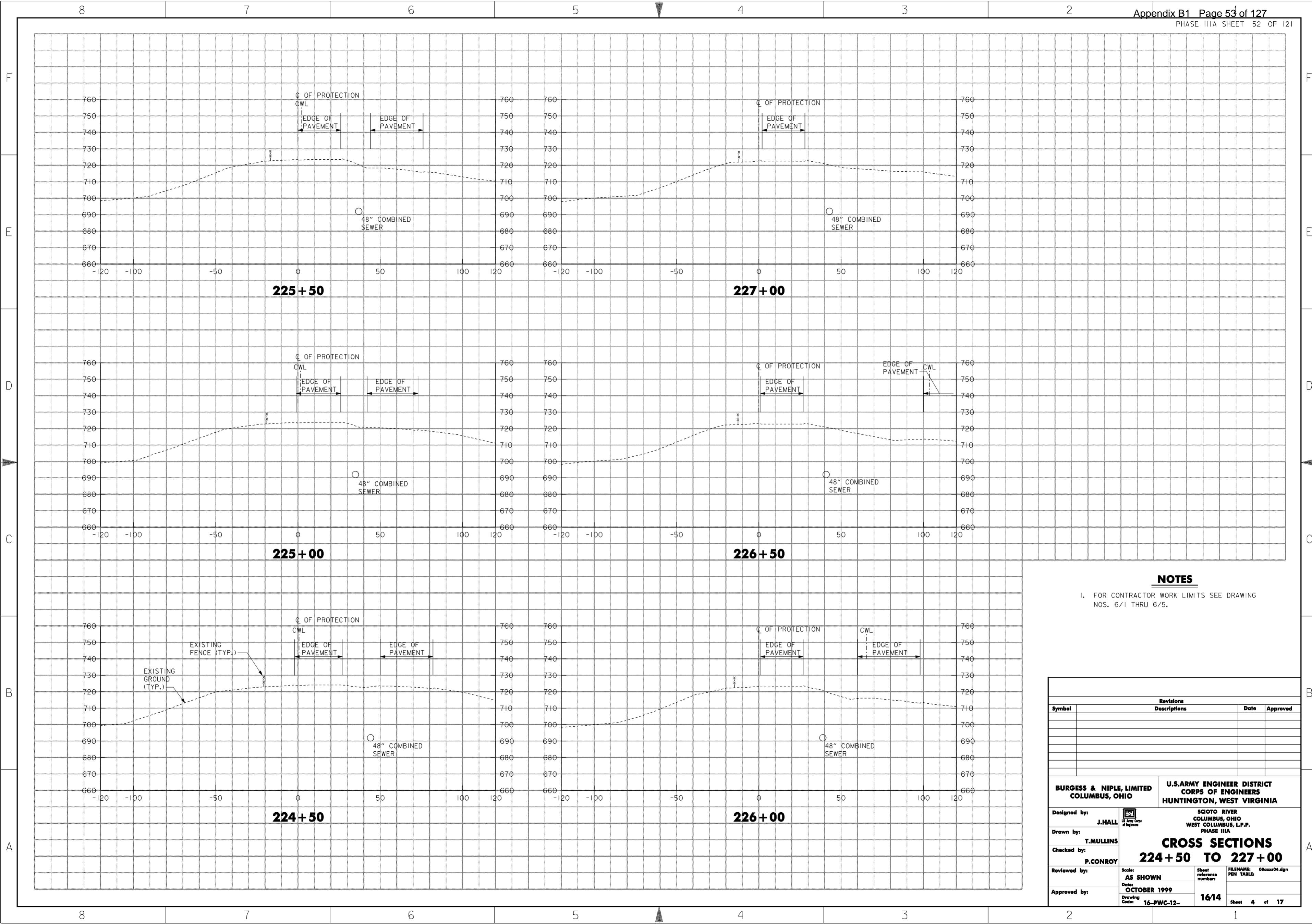


NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR FILL AREA SITE PLAN SEE DRAWING NO. 20.2/2.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		CROSS SECTIONS 221 + 50 TO 224 + 00	
Designed by: J. HALL	Drawn by: T. MULLINS	Checked by: P. CONROY	Reviewed by: Scale: AS SHOWN
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet reference number: 16/13
FILENAME: 00axx05.dgn		PEN TABLE:	
Sheet 3 of 17		WORK AS CONSTRUCTED	



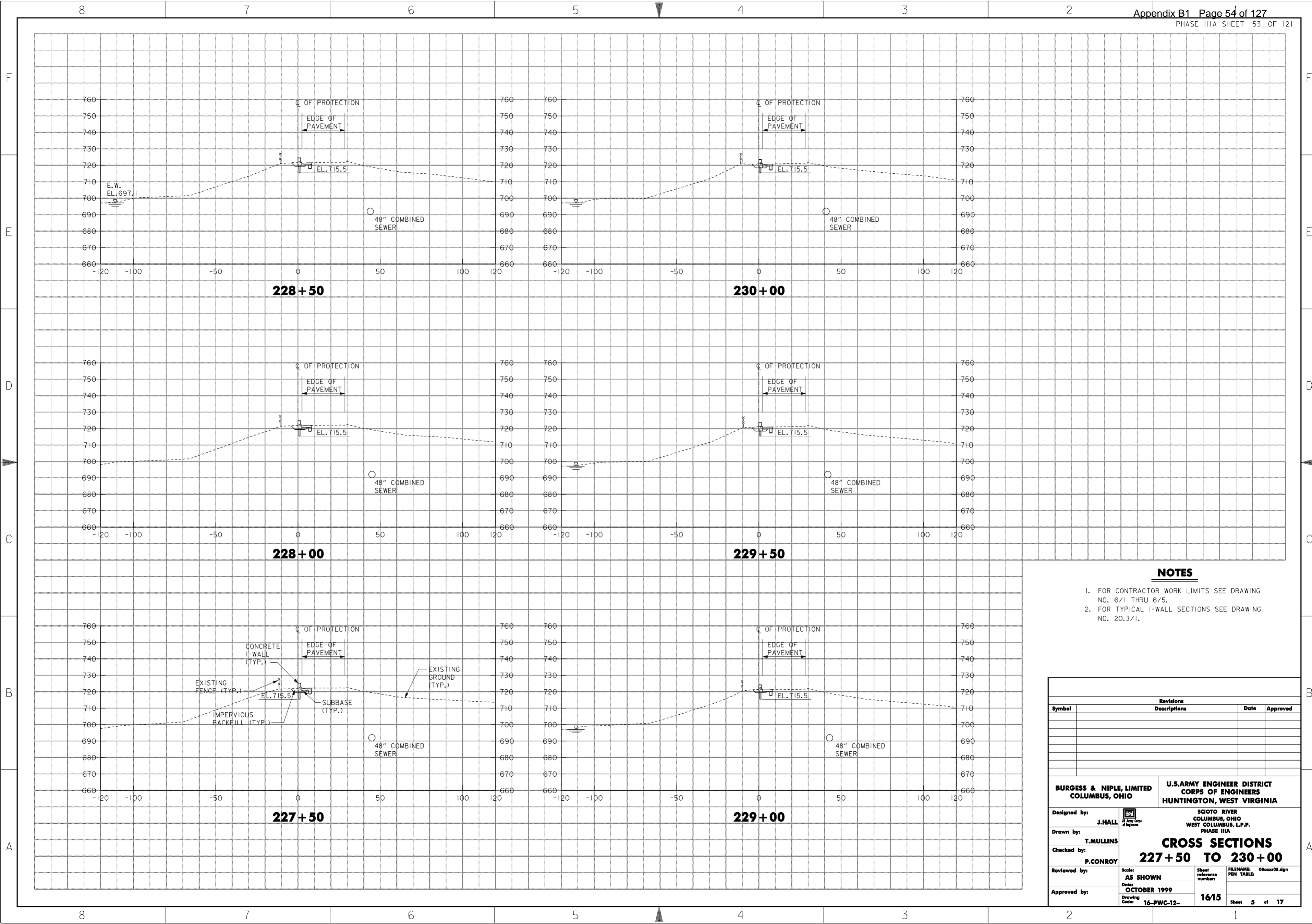
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		Scioto River Columbus, Ohio West Columbus, L.P.P. PHASE IIIA	
Designed by: J. HALL	CROSS SECTIONS 224 + 50 TO 227 + 00		
Drawn by: T. MULLINS			
Checked by: P. CONROY			
Reviewed by:			
Approved by:	Scale: AS SHOWN	Sheet reference number: 16/14	FILENAME: 00axx04.dgn
Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 4 of 17	

WORK AS CONSTRUCTED

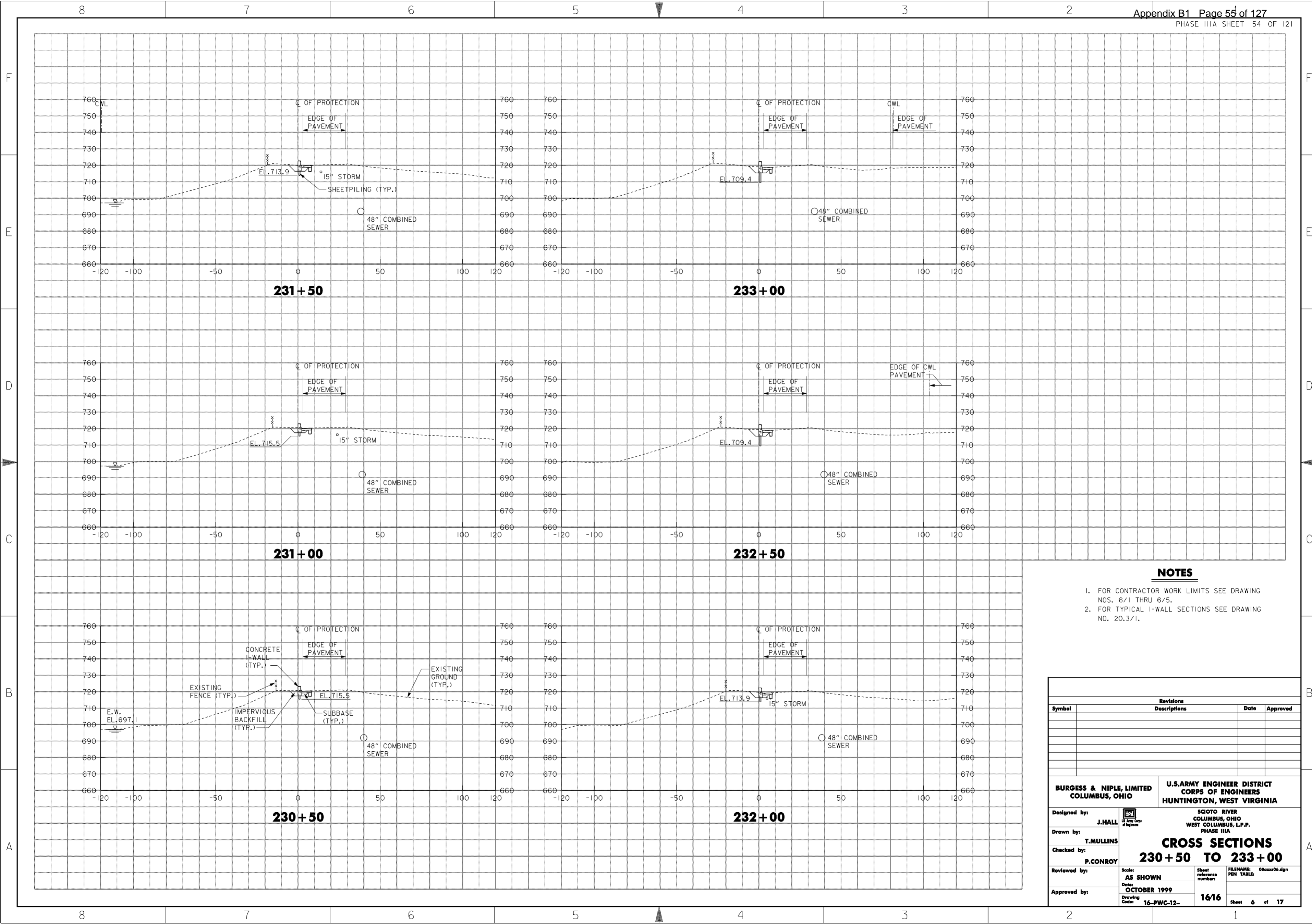


NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NO. 6/1 THRU 6/5.
2. FOR TYPICAL I-WALL 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	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
		CROSS SECTIONS 227 + 50 TO 230 + 00		
Designed by: J. HALL		Drawn by: T. MULLINS	FILENAME: 00axx05.dgn PEN TABLE:	
Checked by: P. CONROY				
Reviewed by:		Scale: AS SHOWN		Sheet reference number: 16/15
Approved by:		Date: OCTOBER 1999		Drawing Code: 16-PWC-12-



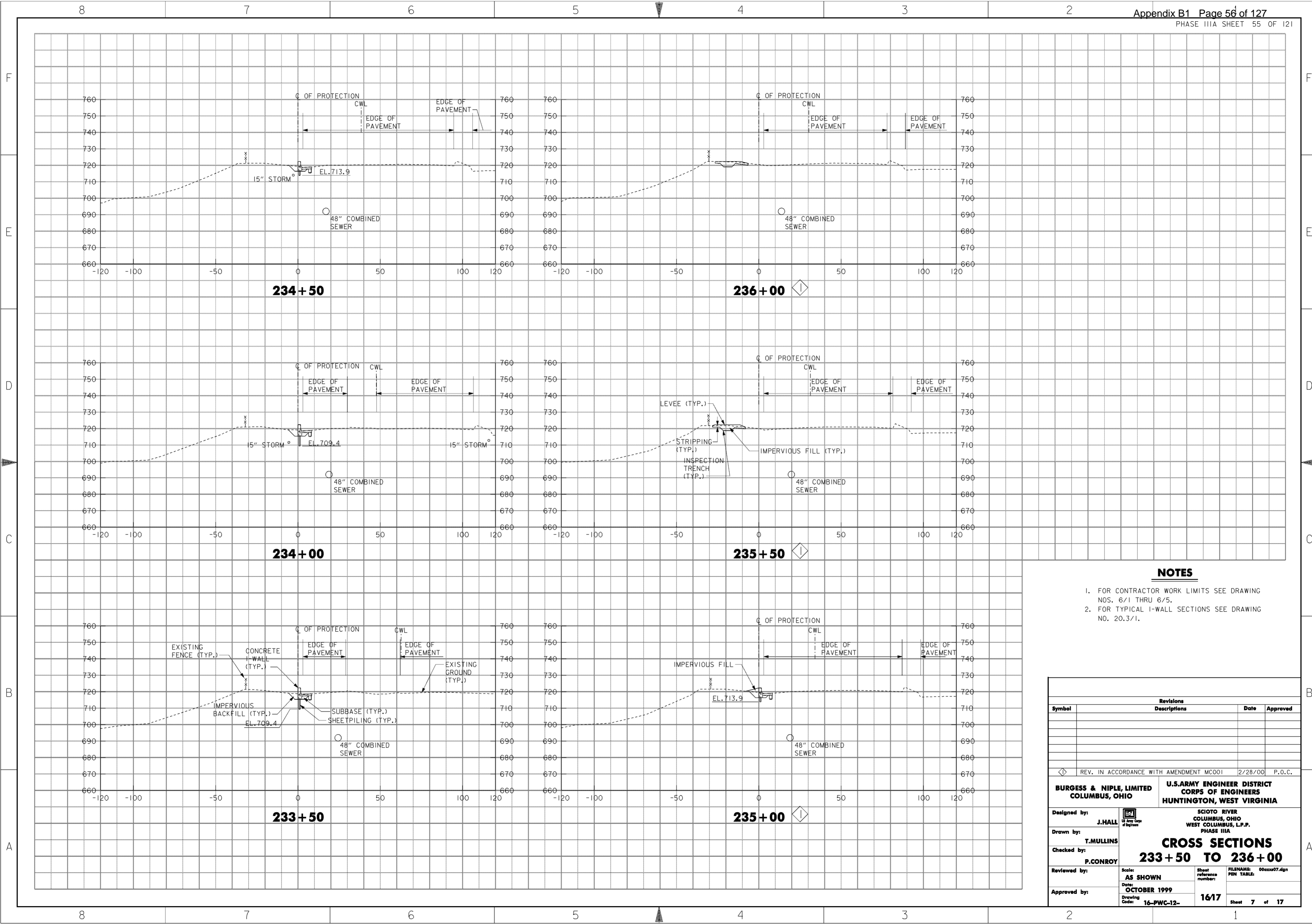
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL I-WALL 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	<p align="center">CROSS SECTIONS 230 + 50 TO 233 + 00</p> FILENAME: 00axx06.dgn PEN TABLE:
Drawn by: T. MULLINS	
Checked by: P. CONROY	
Reviewed by:	
Approved by:	
Scale: AS SHOWN	Sheet reference number: 16/16
Date: OCTOBER 1999	Drawing Code: 16-PWC-12-
Drawing Code: 16-PWC-12-	Sheet 6 of 17

WORK AS CONSTRUCTED

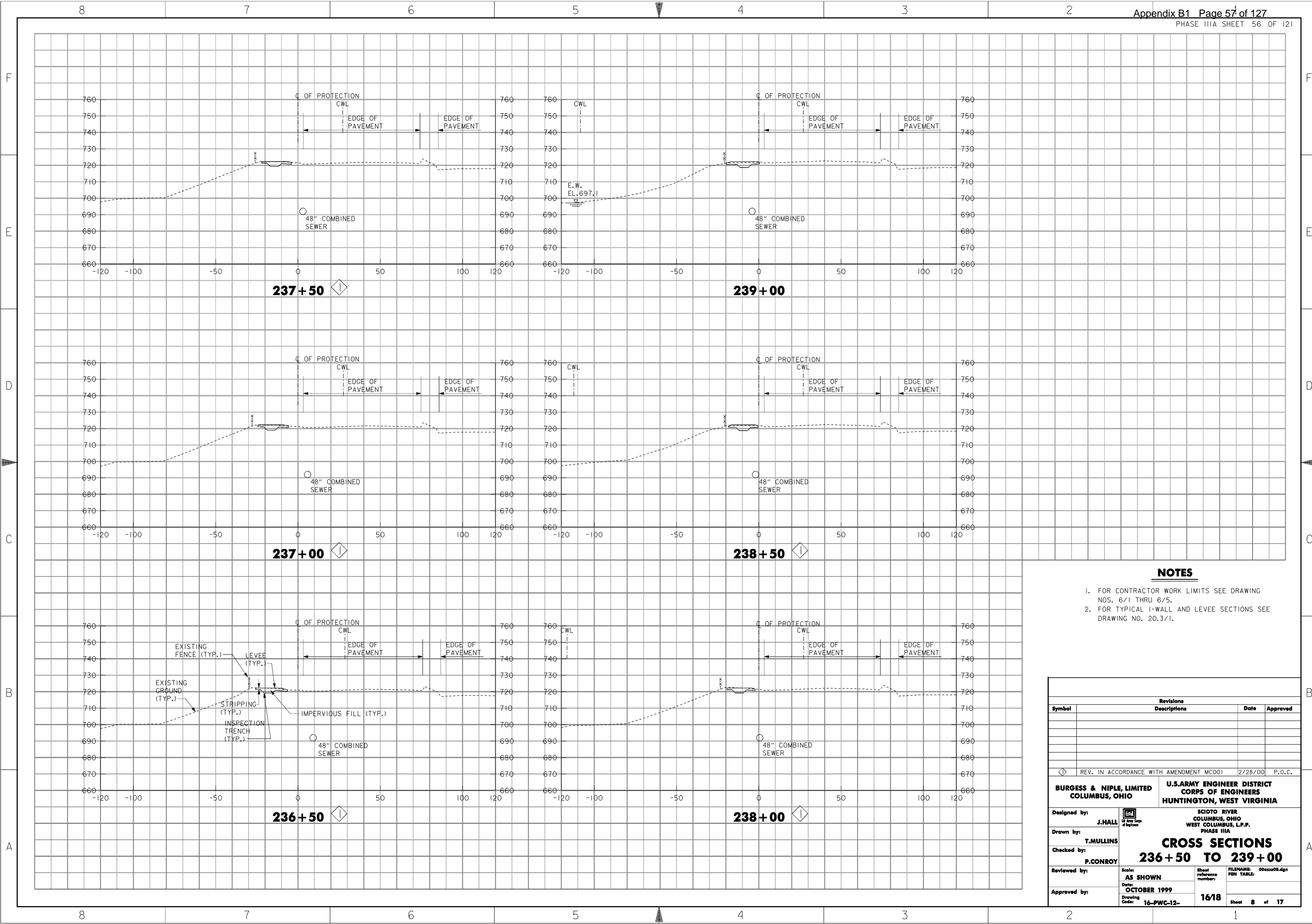


NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL I-WALL SECTIONS SEE DRAWING NO. 20.3/1.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. IN ACCORDANCE WITH AMENDMENT MC001	2/28/00	P.O.C.

BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Designed by: J. HALL	CROSS SECTIONS 233 + 50 TO 236 + 00		
Drawn by: T. MULLINS			
Checked by: P. CONROY			
Reviewed by:			
Approved by:	Scale: AS SHOWN	Sheet reference number: 1617	FILENAME: PIN TABLE: 00axx07.dgn
Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 7 of 17	



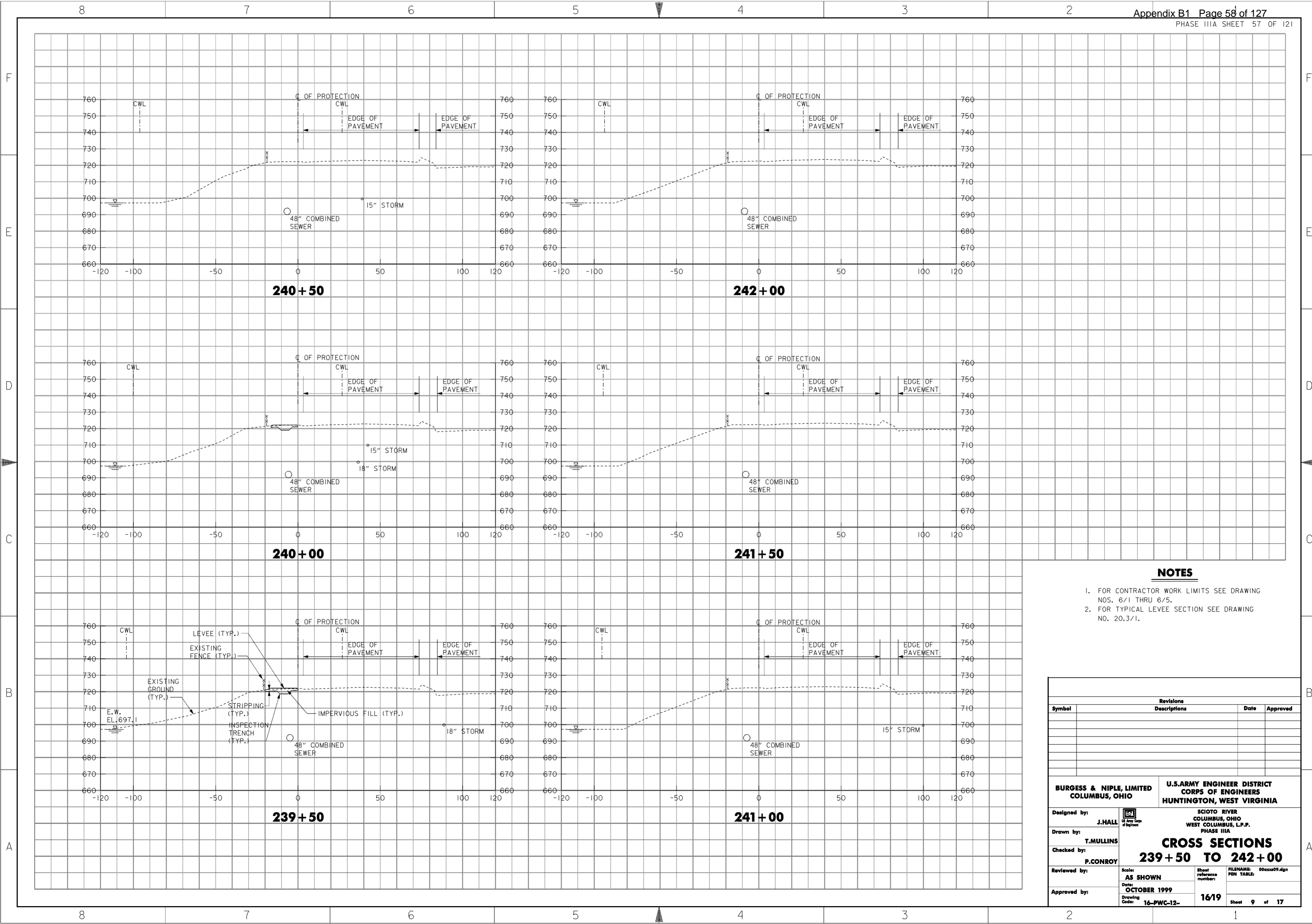
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL I-WALL AND LEVEE SECTIONS SEE DRAWING NO. 20.3/1.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. IN ACCORDANCE WITH AMENDMENT MC001	2/28/00	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Designed by: J. HALL	CROSS SECTIONS 236 + 50 TO 239 + 00		
Drawn by: T. MULLINS			
Checked by: P. CONROY			
Reviewed by:			
Approved by:	Scale: AS SHOWN	Sheet reference number: 16/18	FILENAME: 00axx06.dgn
	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 8 of 17

WORK AS CONSTRUCTED



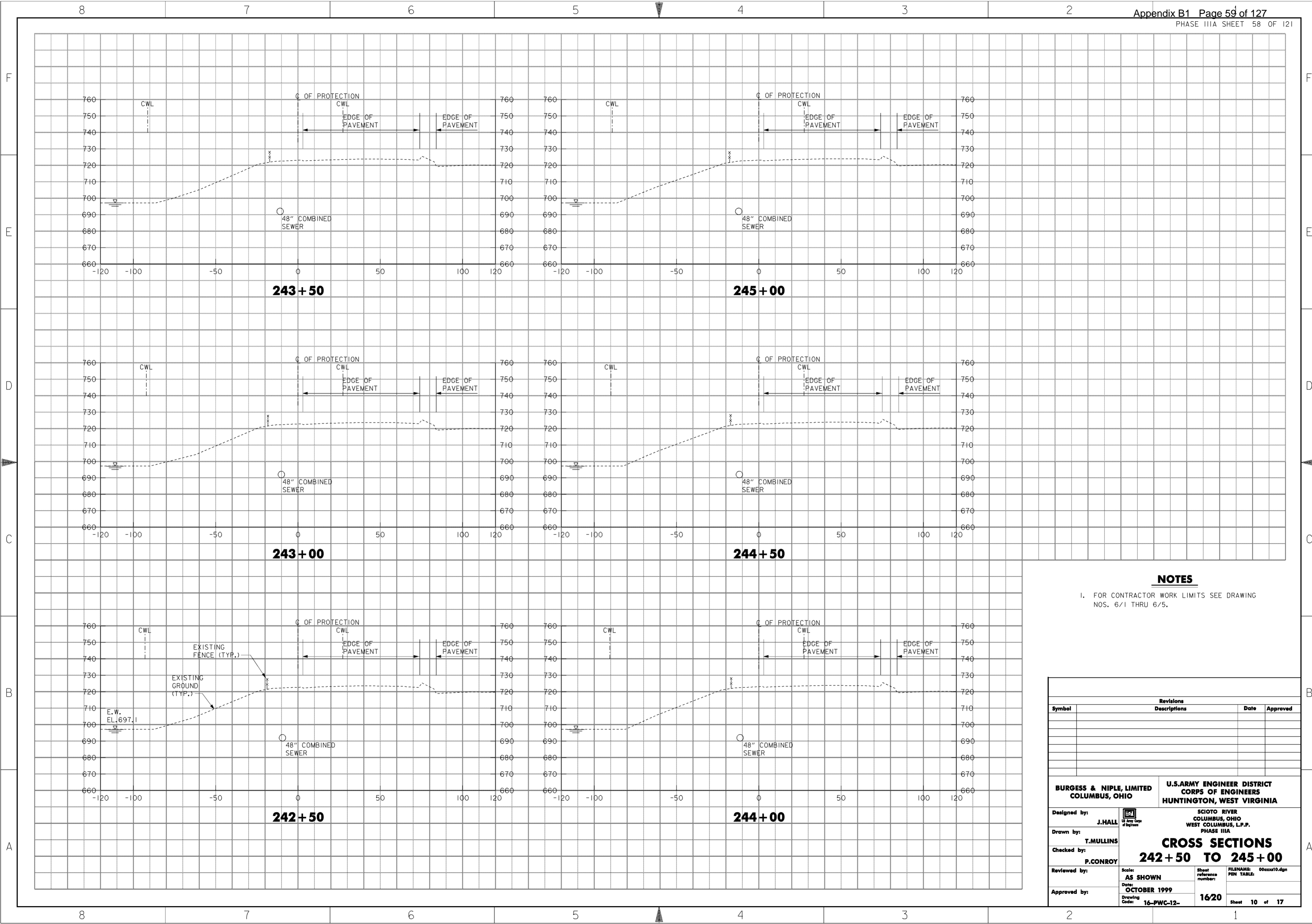
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL LEVEE SECTION 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	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Designed by: J. HALL	<p align="center">CROSS SECTIONS 239 + 50 TO 242 + 00</p>	
Drawn by: T. MULLINS		
Checked by: P. CONROY		
Reviewed by:		
Approved by:		
Scale: AS SHOWN	Sheet reference number: 1619	FILENAME: 00axx09.dgn
Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 9 of 17

WORK AS CONSTRUCTED



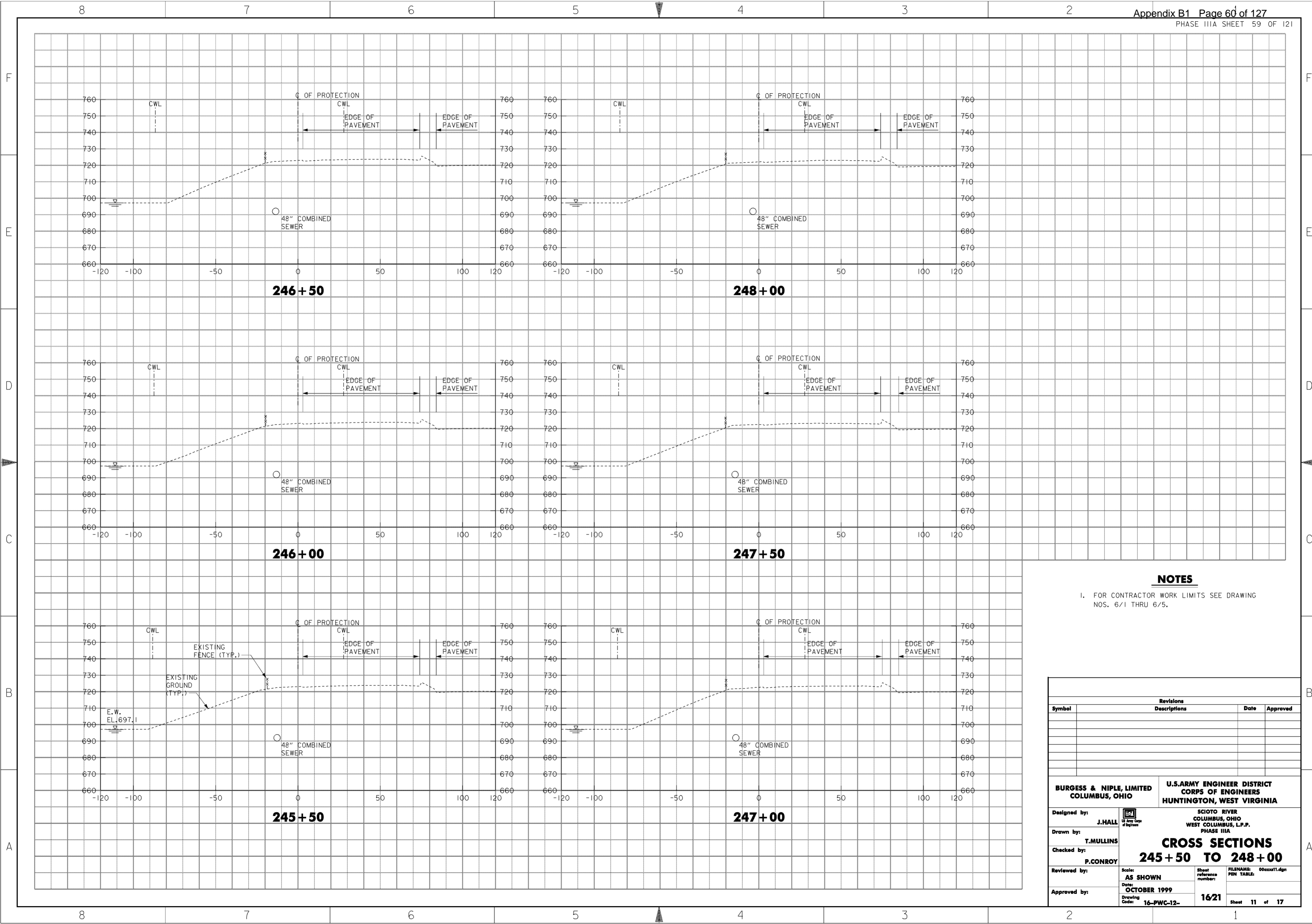
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Designed by: J. HALL	<p align="center">CROSS SECTIONS 242 + 50 TO 245 + 00</p>	
Drawn by: T. MULLINS		
Checked by: P. CONROY		
Reviewed by:		
Approved by:		
Scale: AS SHOWN	Sheet reference number: 1620	FILENAME: 00axxx10.dgn
Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 10 of 17

WORK AS CONSTRUCTED



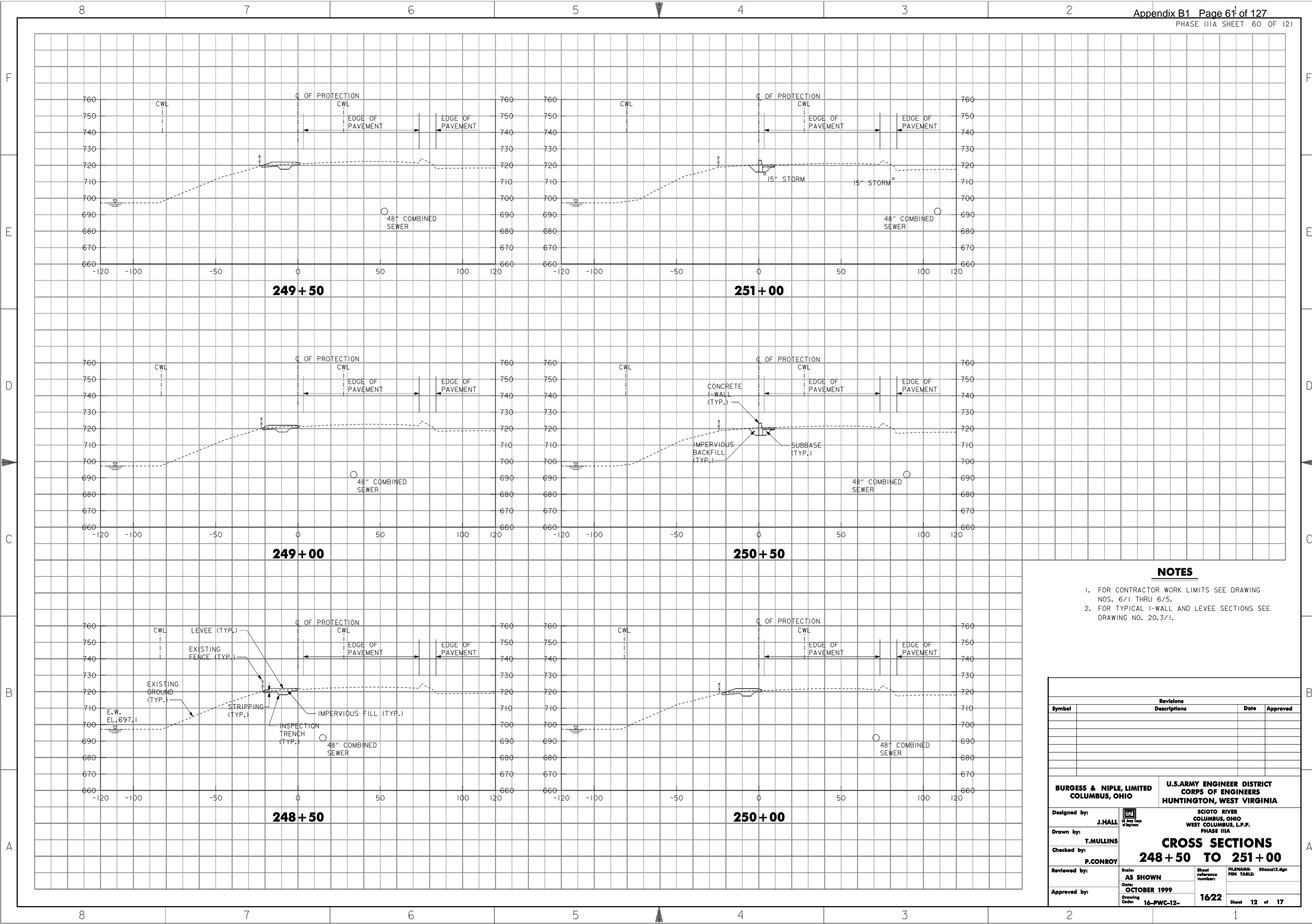
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.

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	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by:	T. MULLINS	CROSS SECTIONS 245 + 50 TO 248 + 00	
Checked by:	P. CONROY	Scale:	AS SHOWN
Reviewed by:		Date:	OCTOBER 1999
Approved by:		Drawing Code:	16-PWC-12-
		Sheet reference number:	16/21
		FILENAME:	00axxx11.dgn
		PIN TABLE:	
			Sheet 11 of 17

WORK AS CONSTRUCTED



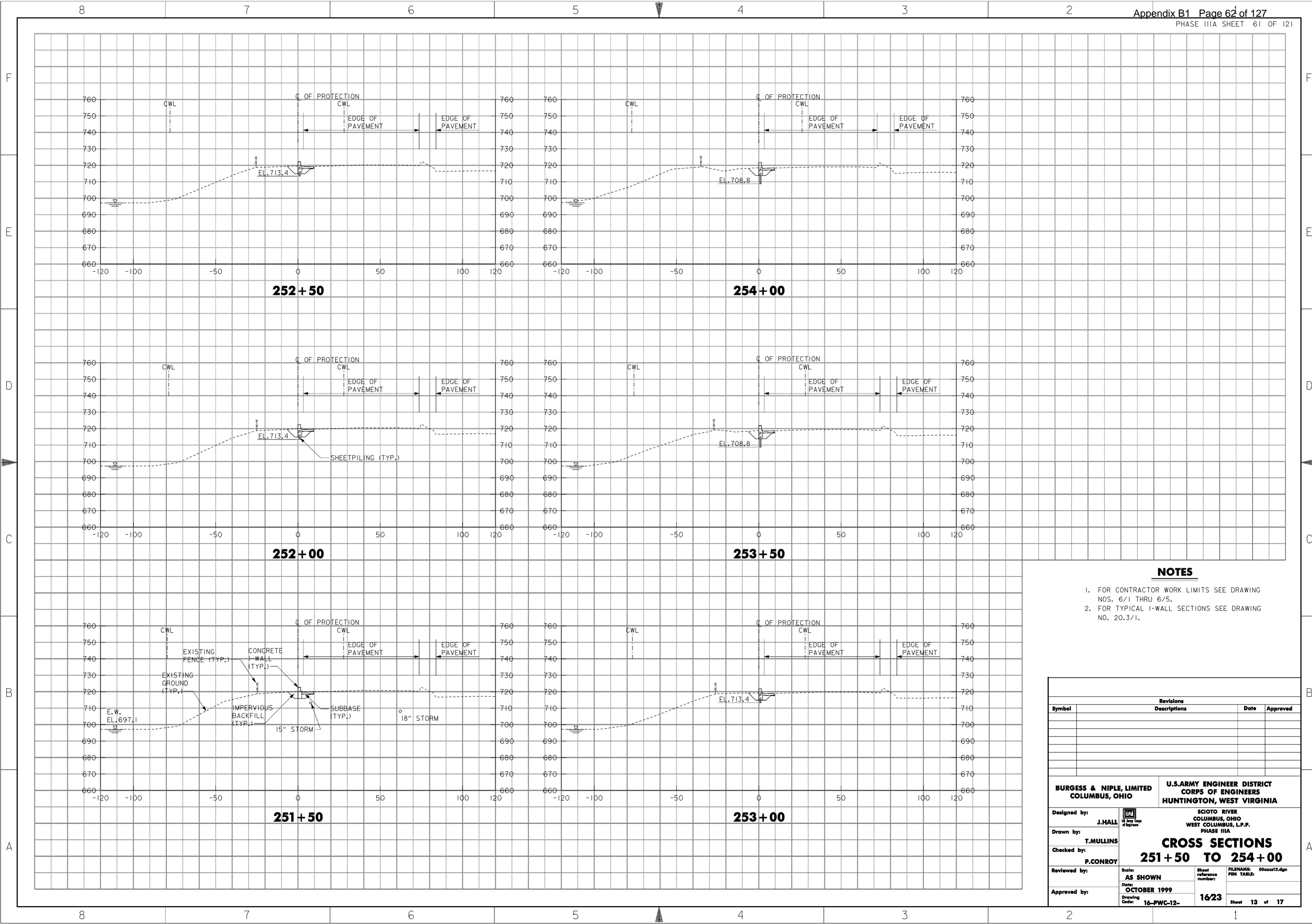
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL I-WALL AND LEVEE 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	CROSS SECTIONS 248 + 50 TO 251 + 00
Drawn by: T. MULLINS	
Checked by: P. CONROY	
Reviewed by:	
Approved by:	
Scale: AS SHOWN	Sheet reference number: 1622
Date: OCTOBER 1999	FILENAME: 00axxx12.dgn
Drawing Code: 16-PWC-12-	Sheet 12 of 17

WORK AS CONSTRUCTED



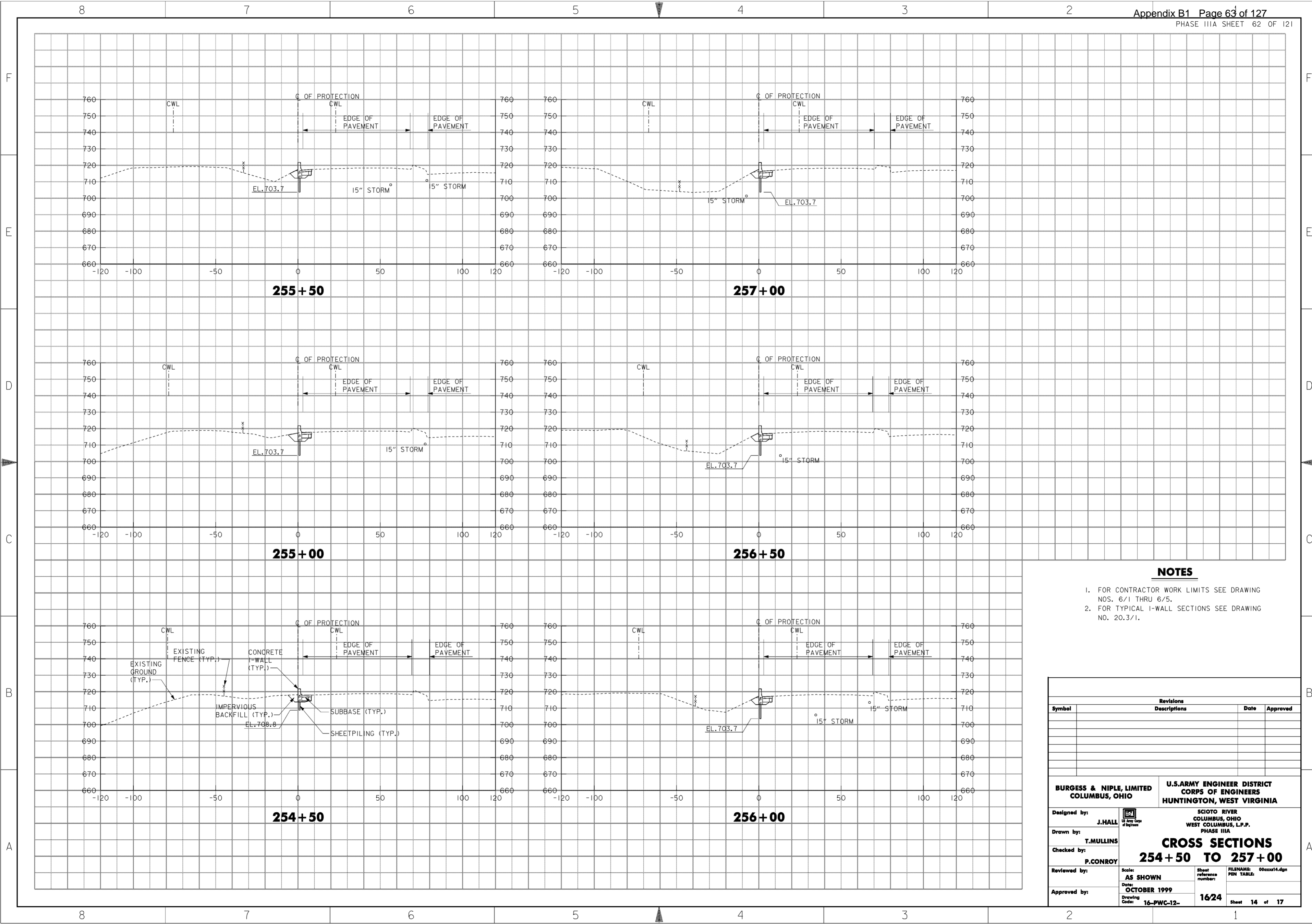
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL I-WALL 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	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		CROSS SECTIONS 251 + 50 TO 254 + 00	
Designed by: J. HALL		Drawn by: T. MULLINS	FILENAME: 00axx13.dgn PEN TABLE:
Checked by: P. CONROY		Reviewed by: AS SHOWN	
Approved by:		Date: OCTOBER 1999	
Drawing Code: 16-PWC-12-		Sheet reference number: 1623	
Sheet 13 of 17		Sheet 13 of 17	


WORK AS CONSTRUCTED



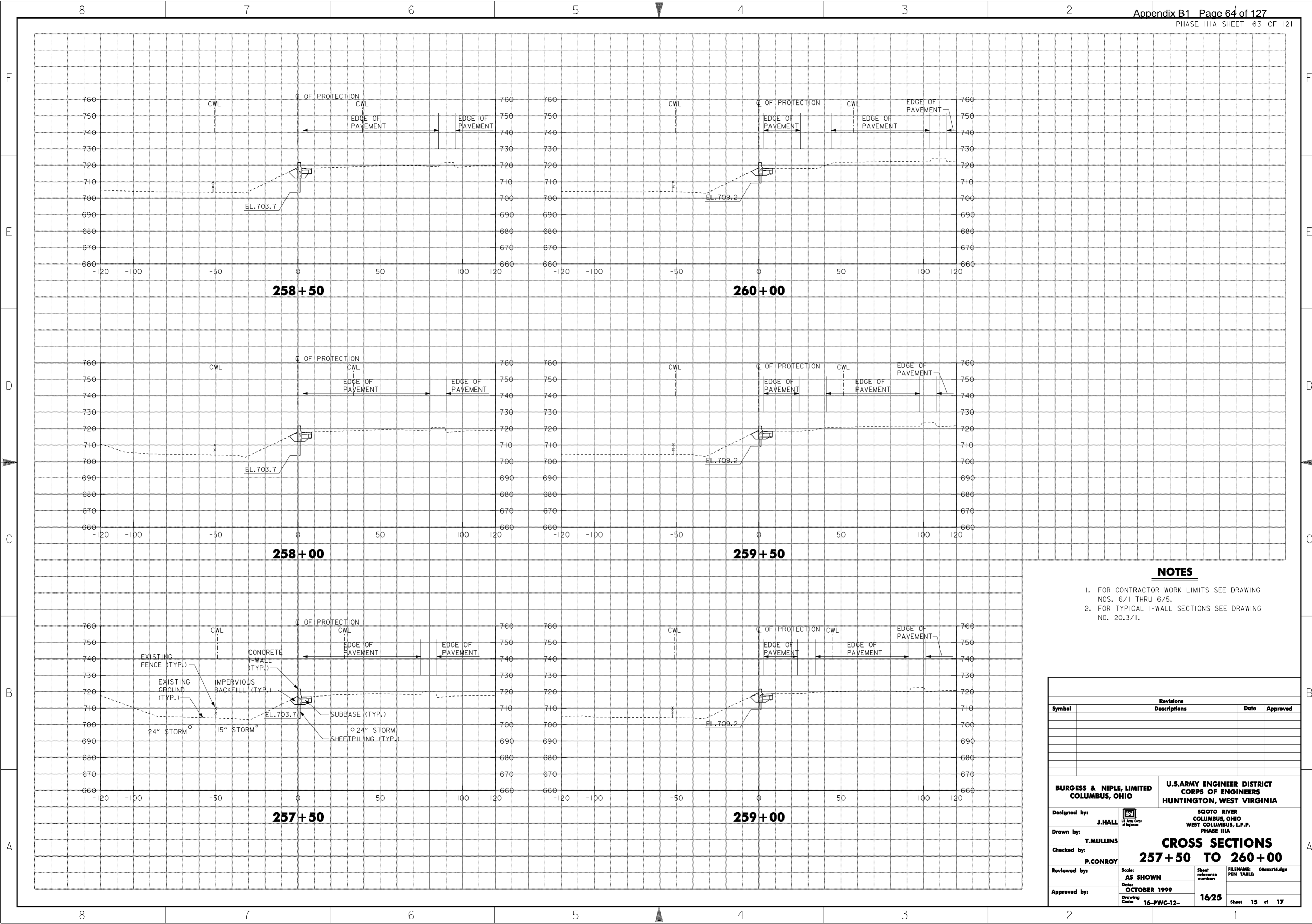
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL I-WALL 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	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		CROSS SECTIONS 254 + 50 TO 257 + 00	
Designed by: J. HALL		Drawn by: T. MULLINS	Date: OCTOBER 1999
Checked by: P. CONROY		Scale: AS SHOWN	Sheet reference number: 1624
Reviewed by:		Drawing Code: 16-PWC-12-	FILENAME: 00axx14.dgn PEN TABLE:
Approved by:		Sheet 14 of 17	1624

WORK AS CONSTRUCTED



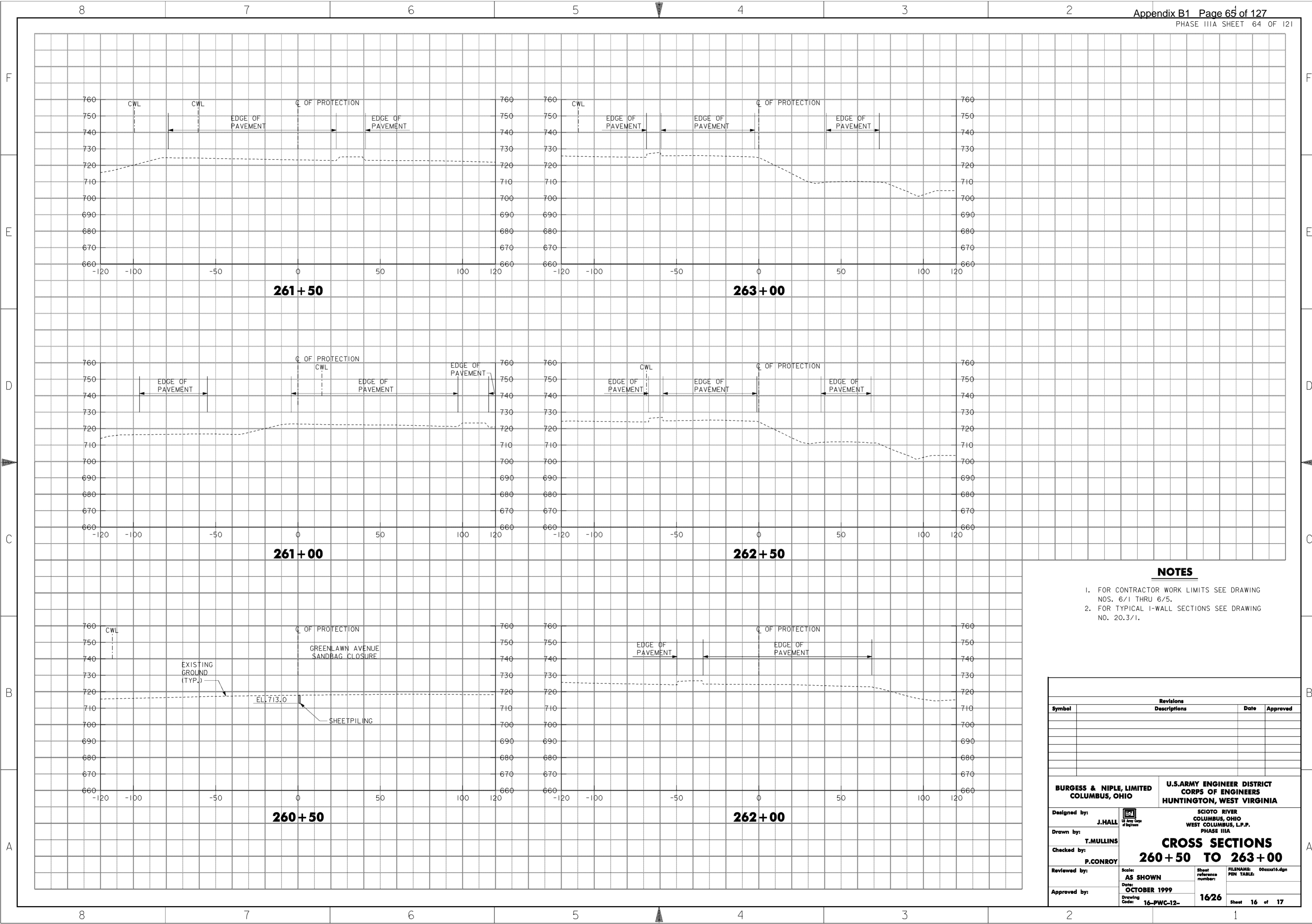
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL I-WALL 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		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Designed by: J. HALL	CROSS SECTIONS 257+50 TO 260+00		
Drawn by: T. MULLINS			
Checked by: P. CONROY			
Reviewed by:			
Approved by:	Scale: AS SHOWN	Sheet reference number: 1625	FILENAME: 00axx15.dgn PEN TABLE:
Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 15 of 17	

WORK AS CONSTRUCTED



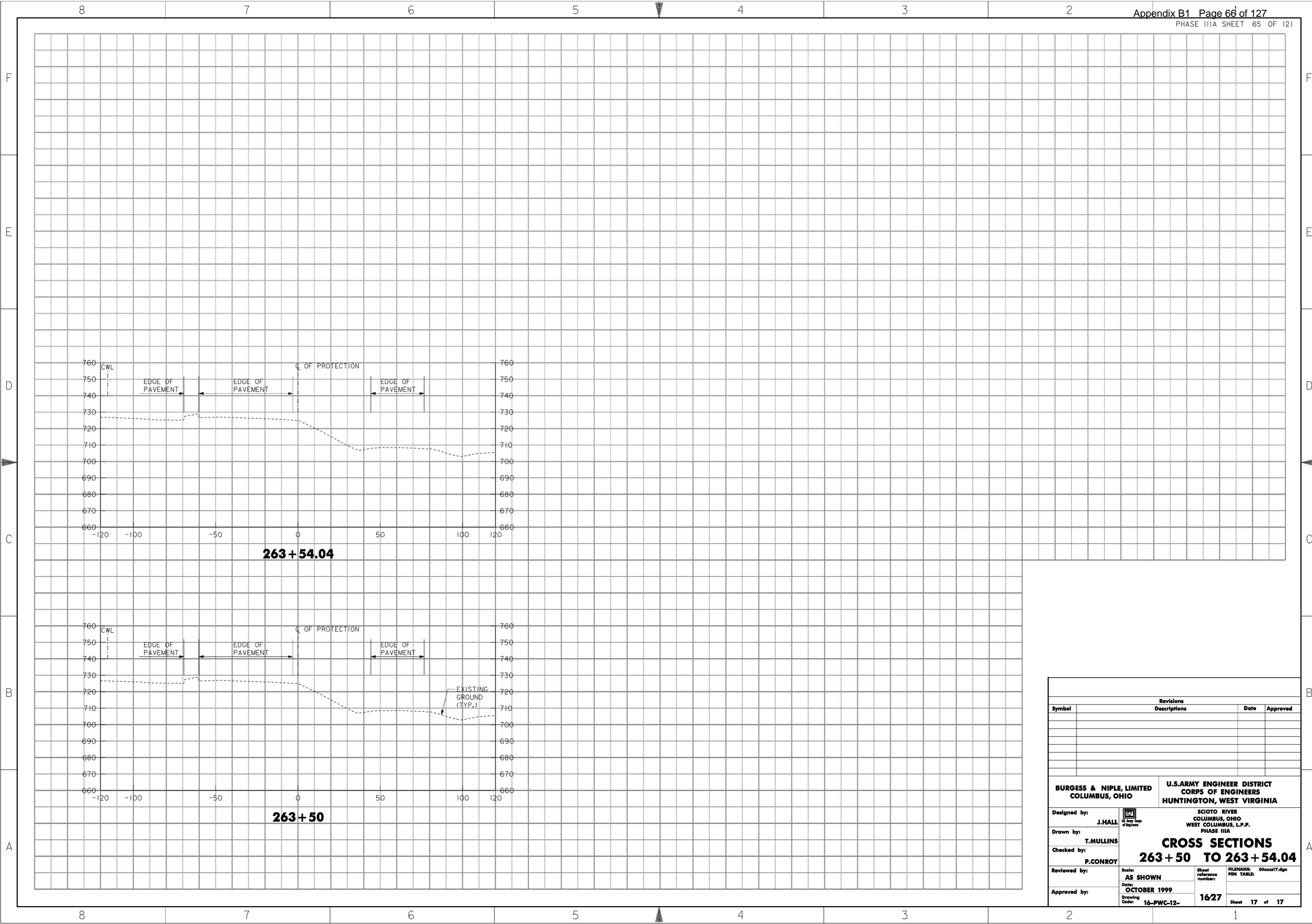
NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR TYPICAL I-WALL SECTIONS SEE DRAWING NO. 20.3/1.

Revisions			
Symbol	Descriptions	Date	Approved

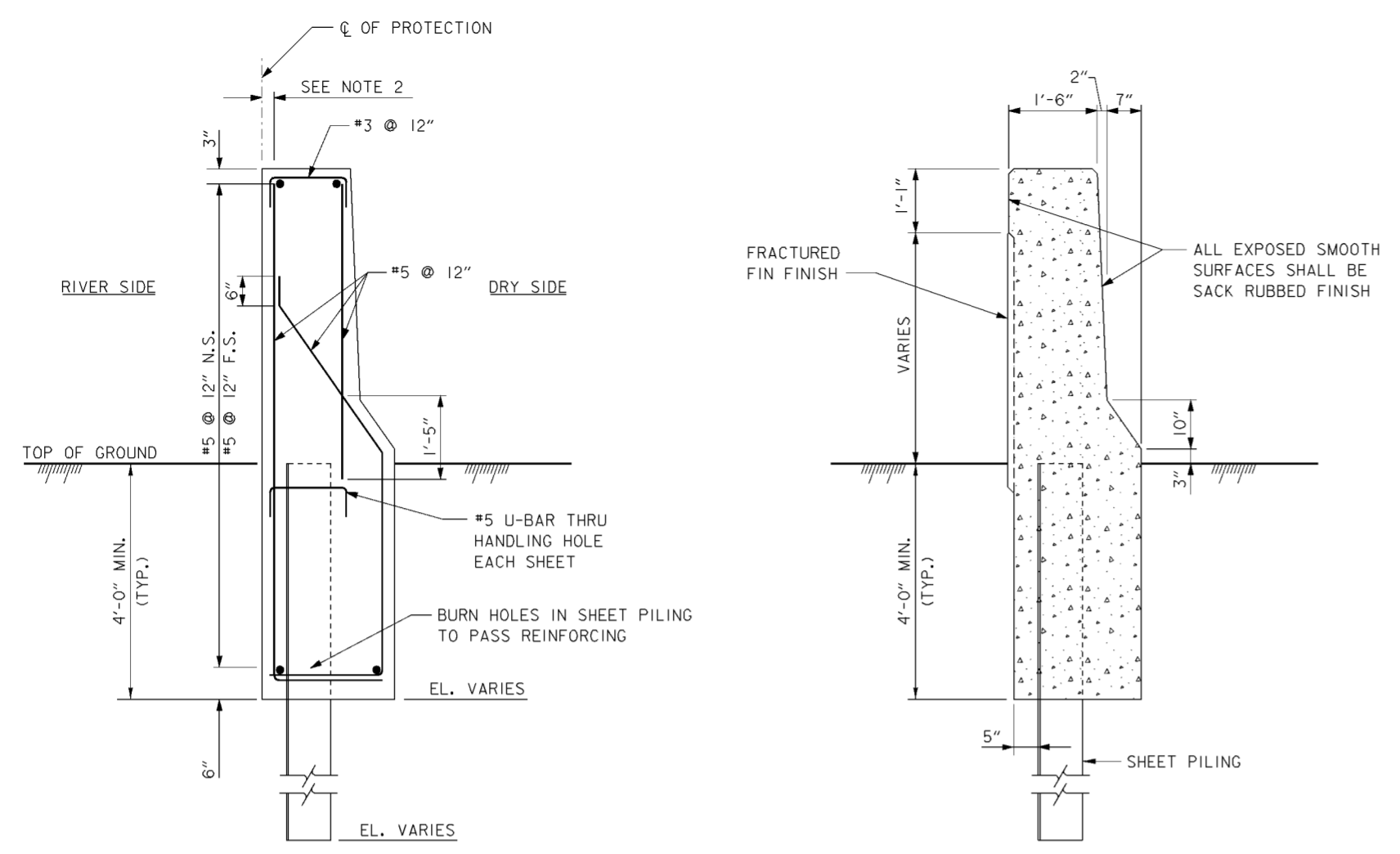
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		CROSS SECTIONS 260 + 50 TO 263 + 00	
Designed by: J. HALL		Drawn by: T. MULLINS	FILENAME: 00axx16.dgn PEN TABLE:
Checked by: P. CONROY		Reviewed by: AS SHOWN	
Approved by:		Date: OCTOBER 1999	
Drawing Code: 16-PWC-12-		Sheet reference number: 1626	
		Sheet 16 of 17	

WORK AS CONSTRUCTED

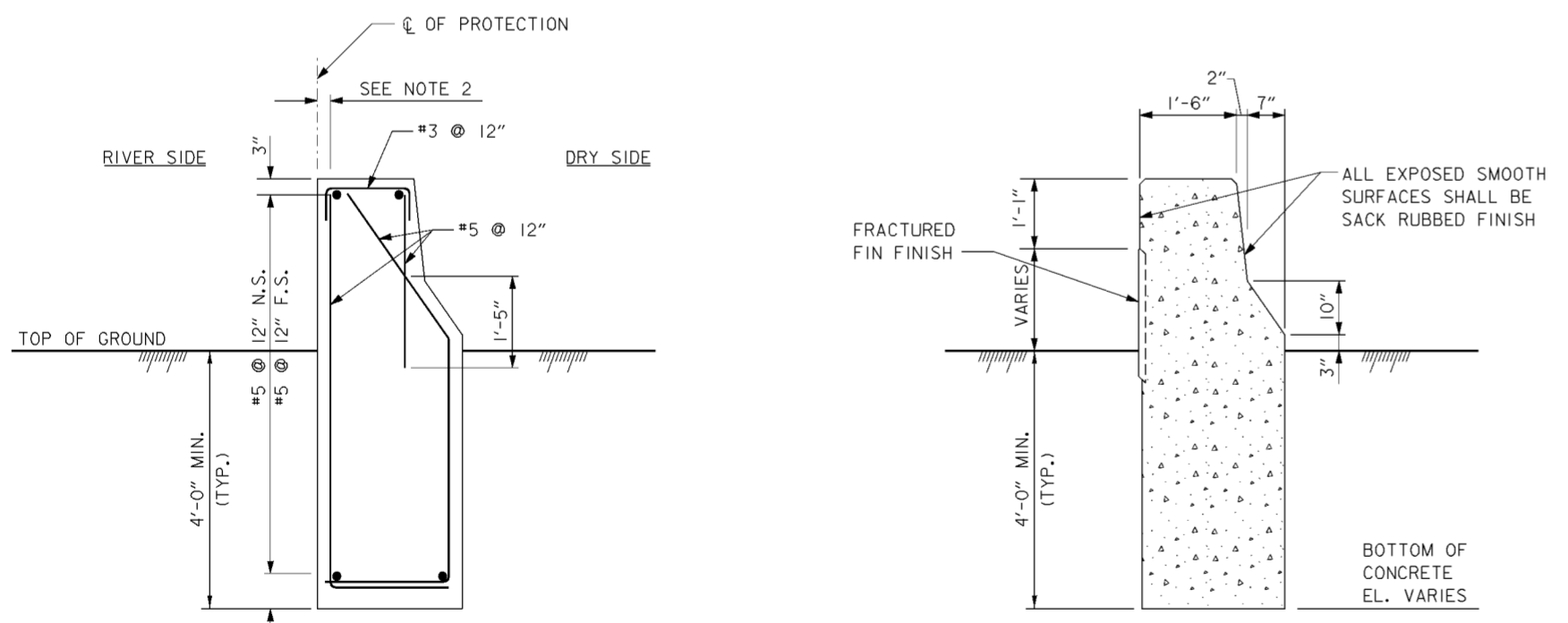
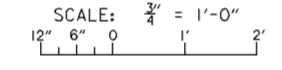


Revisions			
Symbol	Descriptions	Date	Approved

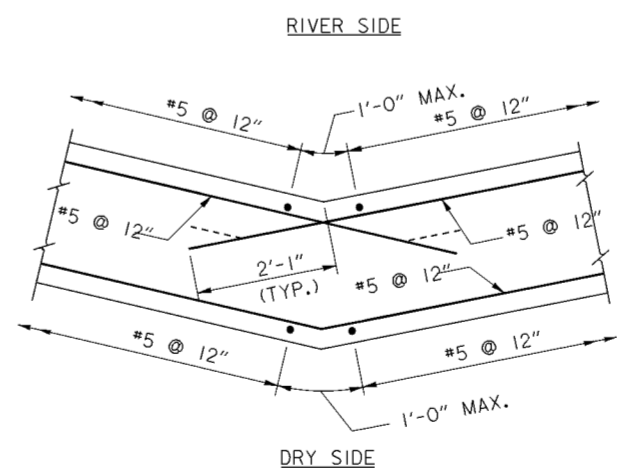
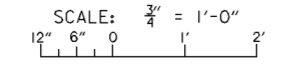
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J. HALL	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	CROSS SECTIONS 263 + 50 TO 263 + 54.04
Checked by: P. CONROY	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-
	Sheet reference number: 16/27
	FILENAME: 00axx17.dgn PIN TABLE: Sheet 17 of 17



TYPICAL I-WALL WITH SHEET PILING

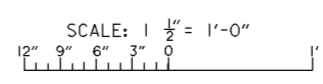


TYPICAL I-WALL WITHOUT SHEET PILING



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



NOTES

1. FOR STRUCTURAL GENERAL NOTES AND ADDITIONAL I-WALL DETAILS SEE DRAWING NO. 20.1/2.
2. PROVIDE 3-INCH COVER OVER "RIVER SIDE" RE-STEEL AS MEASURED FROM THE BACKSIDE OF THE VALLEY BETWEEN FRACTURED FIN.
3. FOR I-WALL TEXTURE DETAILS SEE DRAWING NO. 20.1/4.

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		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by: T.MULLINS		TYPICAL I-WALL DETAILS (1 OF 2)	
Checked by: D.TRAINA	Reviewed by:	Scale: AS SHOWN	Sheet reference number: 20.1/1
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	FILENAME: PEN TABLE: 00add01.dgn
		Sheet 1 of 2	

STRUCTURAL GENERAL NOTES

- PROVIDE 1" CHAMFER ON ALL EXPOSED EDGES OR CORNERS UNLESS OTHERWISE SHOWN.
- UNLESS OTHERWISE SHOWN OR DIRECTED, BAR BENDING DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE.
- 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.
- REINFORCING STEEL MAY BE SPLICED IN PLACES OTHER THAN SHOWN FOR CONSTRUCTION PURPOSES, SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER.
- ABBREVIATIONS:


B - BOTTOM	CLR. - CLEAR
T - TOP	C.J. - CONSTRUCTION JOINT
E.F. - EACH FACE	CONTR. JT. - CONTRACTION JOINT
E.W. - EACH WAY	CL. - CLEARANCE
EA. - EACH	TYP. - TYPICAL
EJFS - PREFORMED EXPANSION JOINT FILLER	MK. - MARK
LLH - LONG LEG HORIZONTAL	WS. - WATERSTOP
LLV - LONG LEG VERTICAL	H - HORIZONTAL
	V - VERTICAL
- CUT AND HOOK HORIZONTAL AND VERTICAL BARS AT OPENINGS.
- ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- 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.
- DEVELOPMENT LENGTHS UNLESS OTHERWISE SHOWN OR DIRECTED SHALL BE AS FOLLOWS:

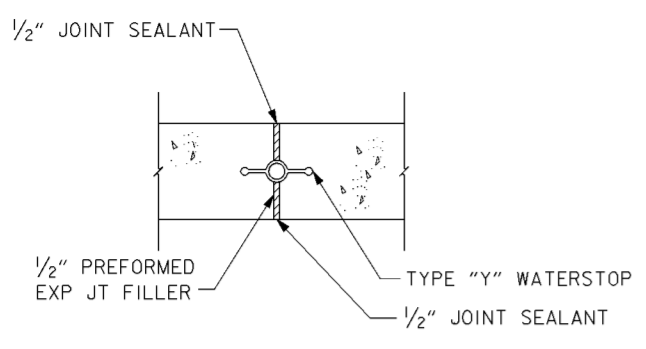
BAR SIZE	DEVELOPMENT LENGTH (L _d) INCHES *	
	TOP BARS **	OTHERS
3	13	12
4	18	14
5	22	17
6	26	20
7	38	29
8	43	33
9	49	38
10	55	42
11	61	47

- * PLUS CLEARANCE
- ** TOP HORIZONTAL SLAB AND FOUNDATION BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW THE BARS.

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'_c) OF 3,000 P.S.I. AT 28 DAYS, UNLESS OTHERWISE NOTED.
- 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.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE D1.1 OR D1.2.
- UNLESS OTHERWISE NOTED, ALL ITEMS NOTED C.R.S. SHALL BE CORROSION RESISTANT STEEL.
- ALL DOWEL BAR SUBSTITUTES SHALL BE LENTON FORM SAVER BY ERICO OR EQUAL.
- 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 MANUFACTURER'S RECOMMENDATIONS. ALL DRILLED HOLES SHALL BE DONE USING A ROTARY PERCUSSION DRILL.

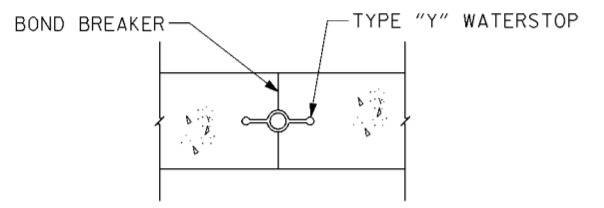
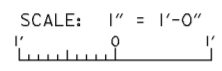
Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: L.LINZELL		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by: T.MULLINS		TYPICAL I-WALL DETAILS (2 OF 2)	
Checked by: D.TRAINA	Reviewed by: AS SHOWN	Scale: AS SHOWN	Sheet reference number: 20.12
Approved by:	Date: OCTOBER 1999	FILENAME: 00add102.dgn	PIN TABLE: Sheet 2 of 2
	Drawing Code: 16-PWC-12-		



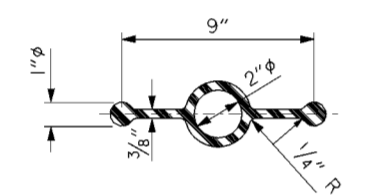
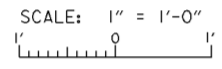
TYPICAL TYPE "A" JOINT

W/O SHEET PILING

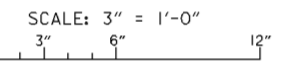


TYPICAL TYPE "B" JOINT

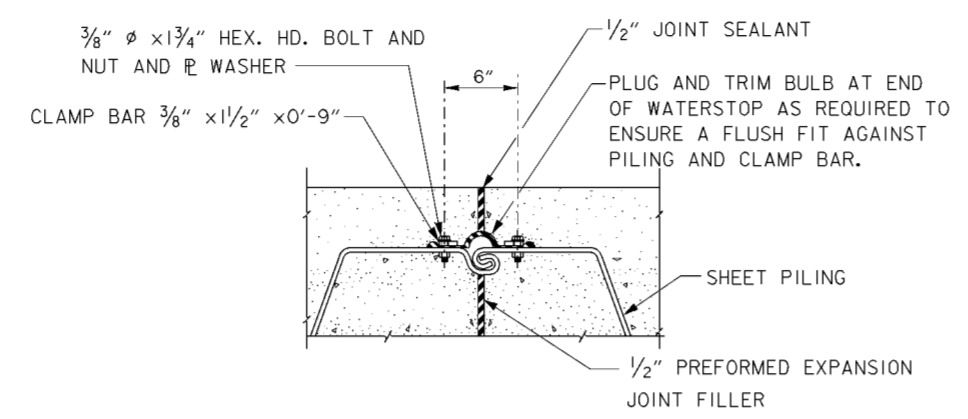
W/O SHEET PILING



TYPE "Y" WATERSTOP (WS)

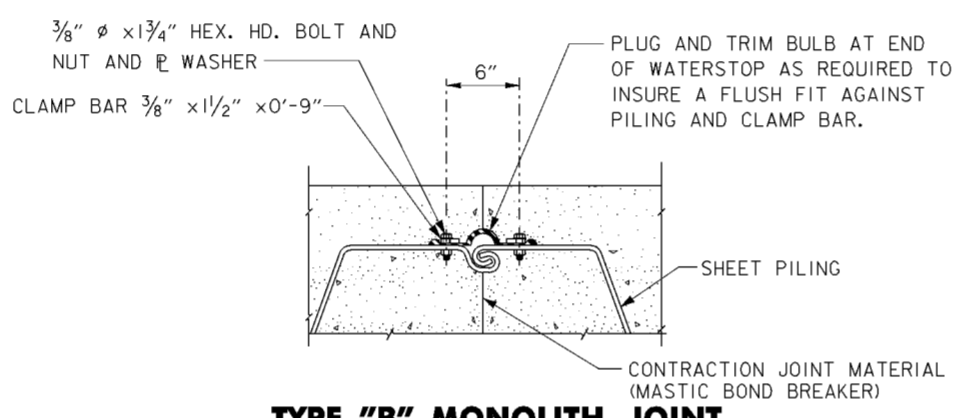
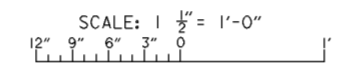


NOTE:
OPENINGS IN TOP OF ALL TYPE "Y" WATERSTOPS AND WHERE WATERSTOPS ARE CLAMPED TO SHEET PILING SHALL BE PLUGGED WITH SOFT RUBBER FOR A 2" MIN. DEPTH



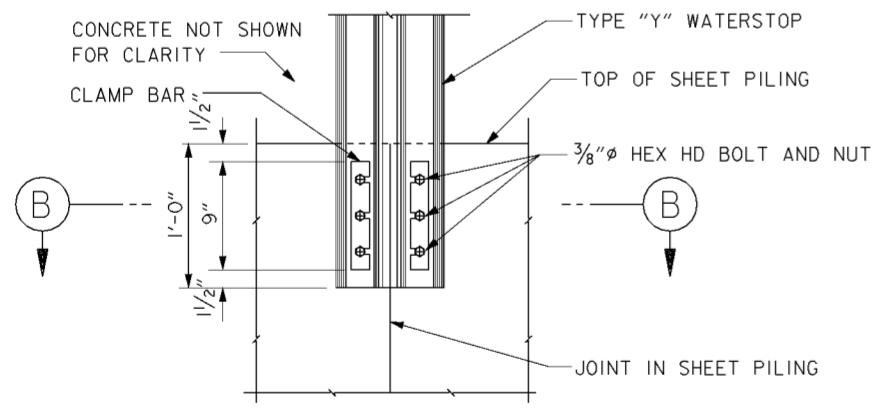
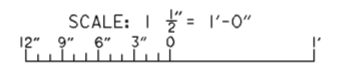
TYPE "A" MONOLITH JOINT

W/SHEET PILING

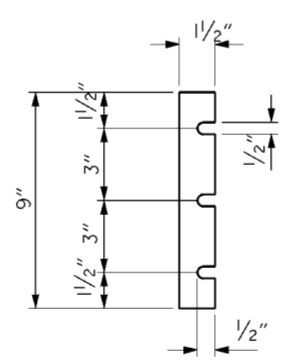
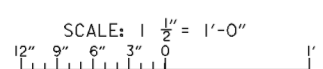


TYPE "B" MONOLITH JOINT

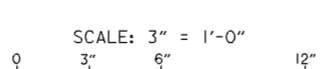
W/SHEET PILING

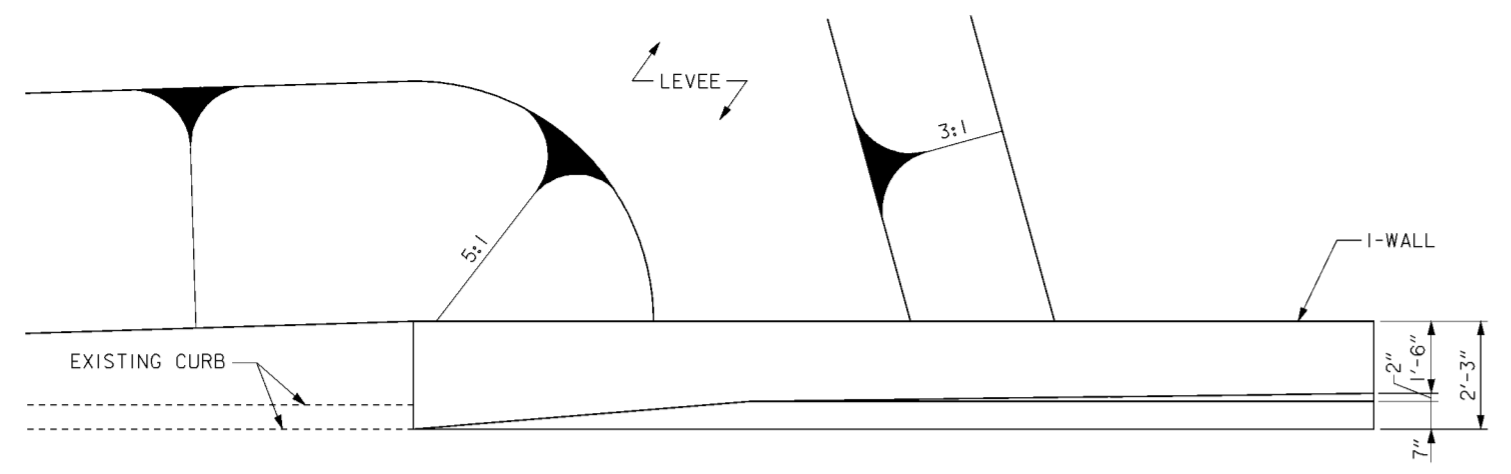


PILING WATERSTOP CONNECTION

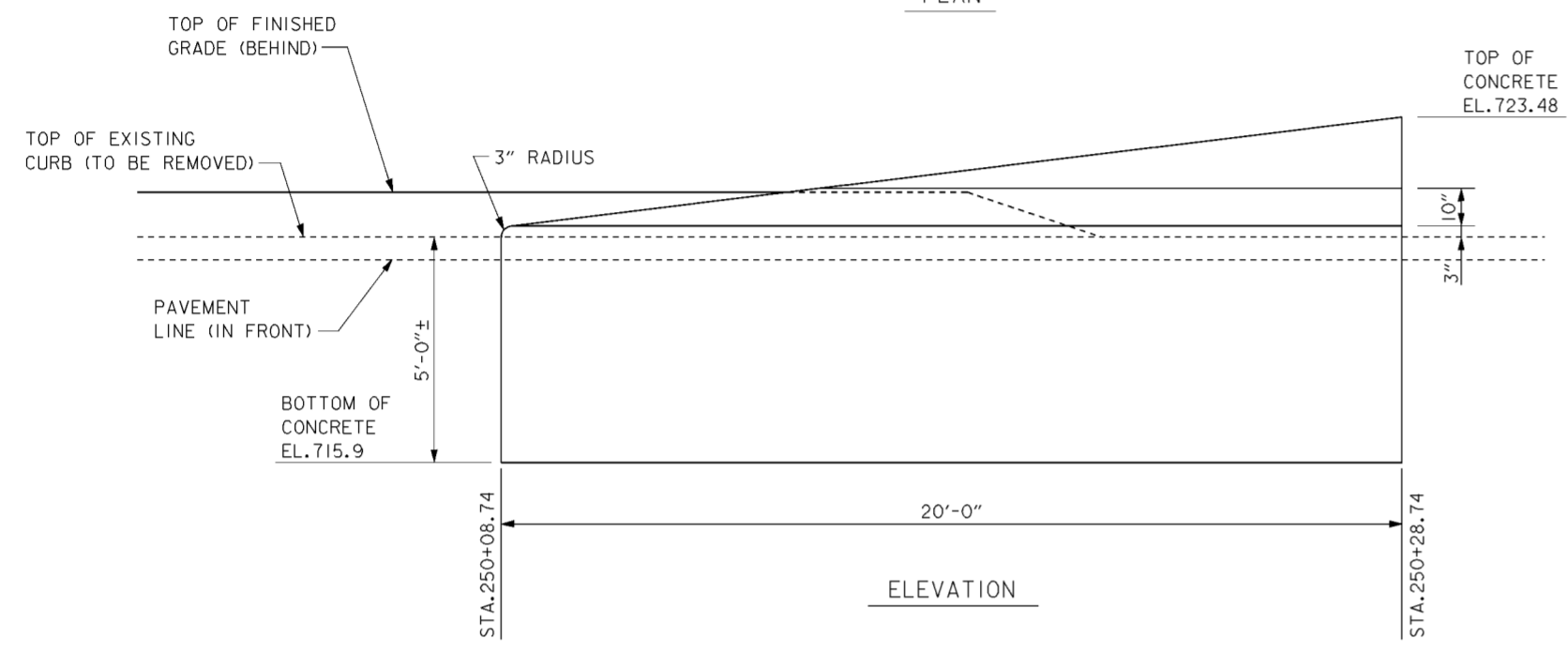


CLAMP BAR



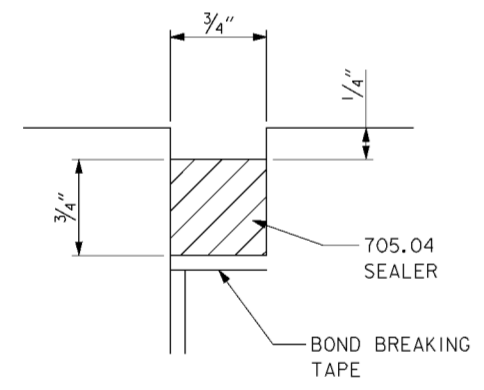


PLAN

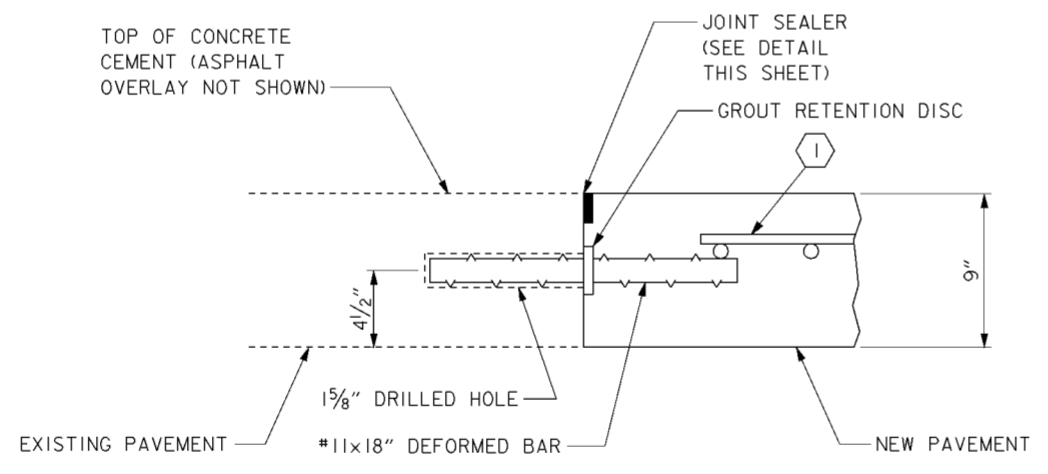


ELEVATION

TAPERED END
 STA. 250+08.74 TO 250+28.74
 SCALE: 1/2" = 1'-0"



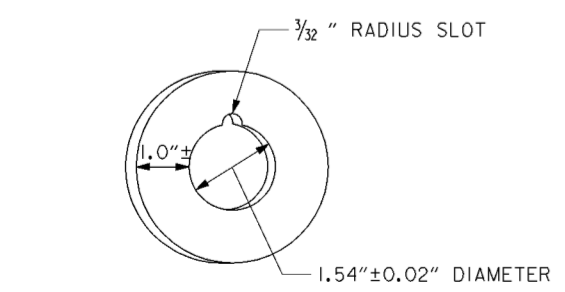
JOINT SEALER DETAIL
 SCALE: NONE



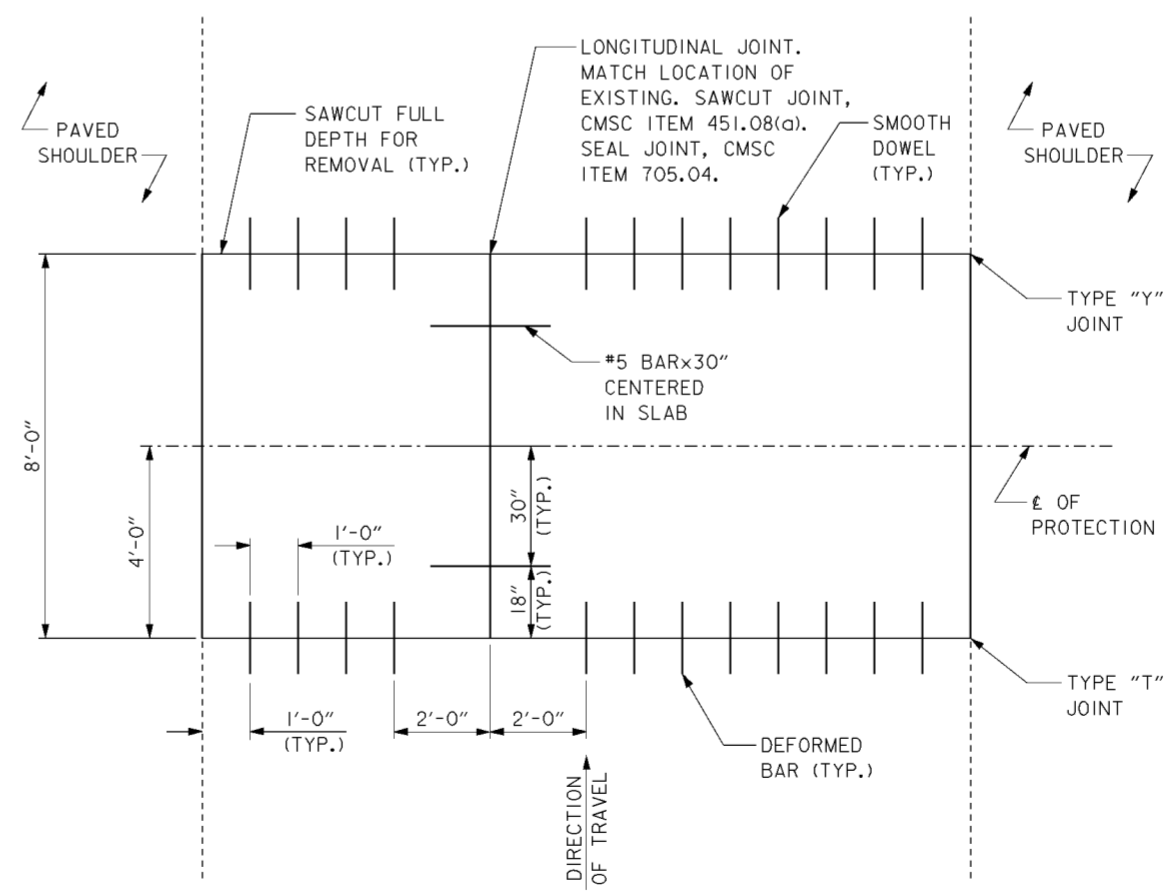
SECTION - TYPE T
 (TIED)
 SCALE: NONE

NOTE: TYPE "Y" JOINT SIMILAR WITH SMOOTH 1 1/2" Ø x 18" DOWEL. SMOOTH DOWEL TO BE COATED WITH "BOND BREAKING" MATERIAL AFTER INSTALLED IN EXISTING PAVEMENT JUST PRIOR TO PLACING PATCH.

① WELDED WIRE FABRIC SHALL CONSIST OF W8.5 OR D8.5 LONGITUDINAL WIRES SPACED 6" C/C AND W4 OR D4 TRANSVERSE WIRES SPACED 12" C/C, FLAT SHEETS. THE CLEARANCE FROM THE END OF THE WIRE FABRIC TO THE EDGE OF PAVEMENT, NEW LONGITUDINAL JOINT, OR EDGES OF REPLACEMENT SHALL BE 4" ± 2".



NYLON OR PLASTIC GROUT RETENTION DISCS FOR DOWEL/TIE BARS
 (1/16" MIN. THICKNESS, CLEAR IN COLOR)
 SCALE: NONE



DOWEL BAR PLACEMENT DETAIL
PORTLAND CEMENT CONCRETE PAVEMENT REPLACEMENT

SCALE: 1/2" = 1'-0"
 12' 0' 1' 2' 3' 4'

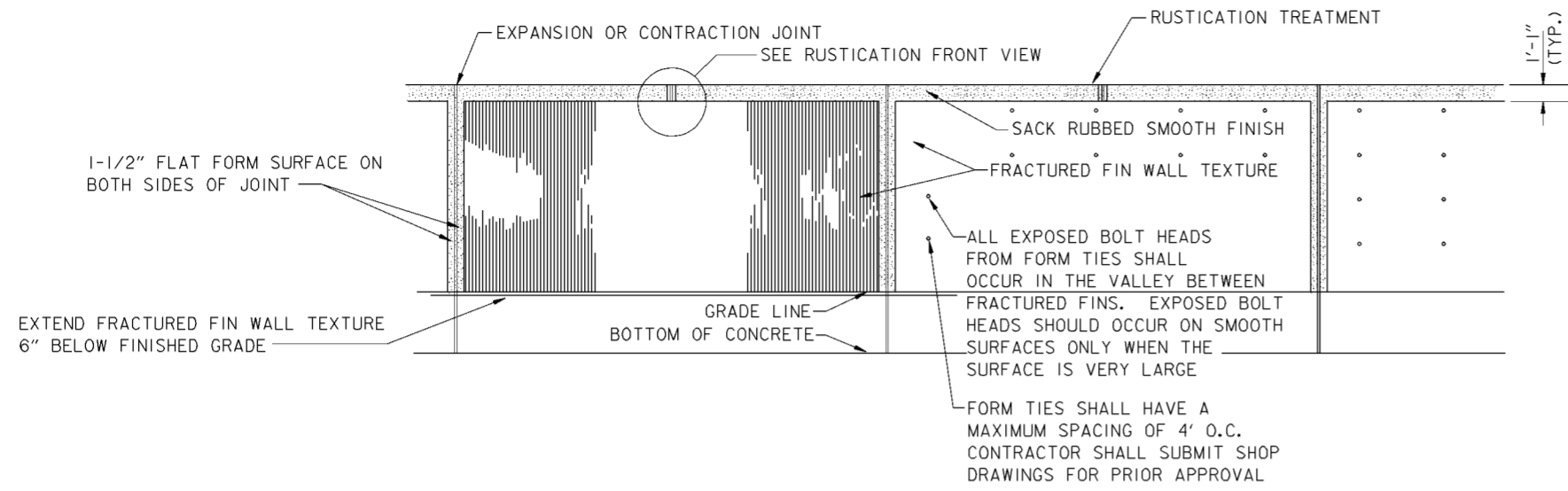
NOTES

1. SEE DRAWING NO. 20.2/1 FOR LOCATION OF PAVEMENT REPLACEMENT AT GREENLAWN AVENUE SANDBAG CLOSURE.

Revisions			
Symbol	Descriptions	Date	Approved

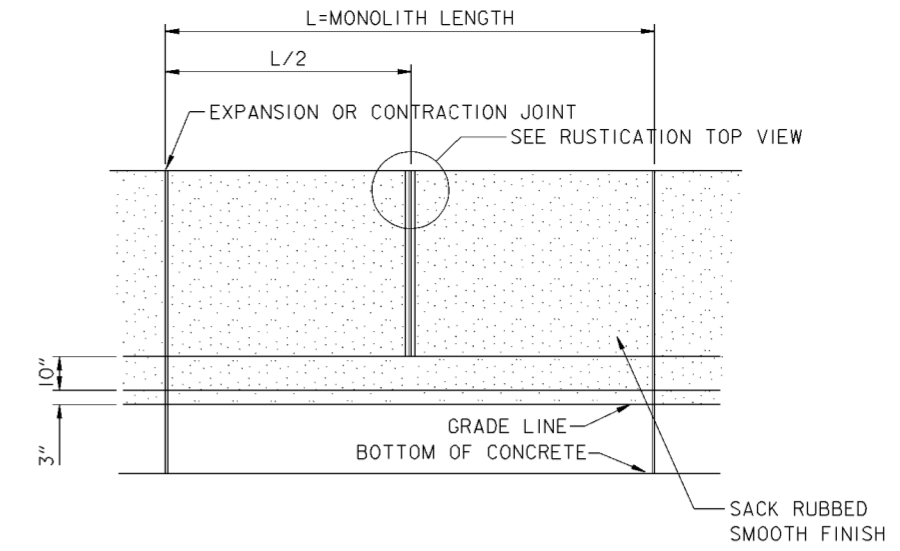
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J. HALL		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by: T. MULLINS		MISCELLANEOUS DETAILS	
Checked by: P. CONROY		Scale: AS SHOWN	Sheet reference number: 20.13
Reviewed by:		Date: OCTOBER 1999	FILENAME: 00add103.dgn
Approved by:		Drawing Code: 16-PWC-12-	PIN TABLE: Sheet 1 of 1

GREENLAWN AVENUE ON-RAMP PAVEMENT REPLACEMENT DETAILS



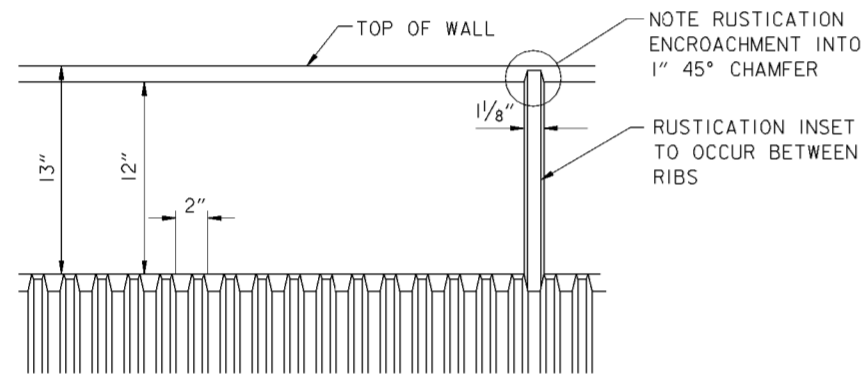
TYPICAL WALL TEXTURE (RIVER SIDE)

SCALE: NONE



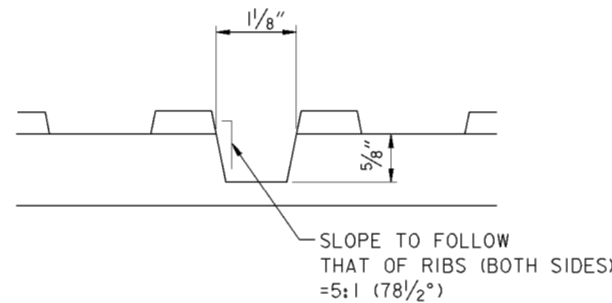
TYPICAL WALL TEXTURE (DRY SIDE)

SCALE: NONE



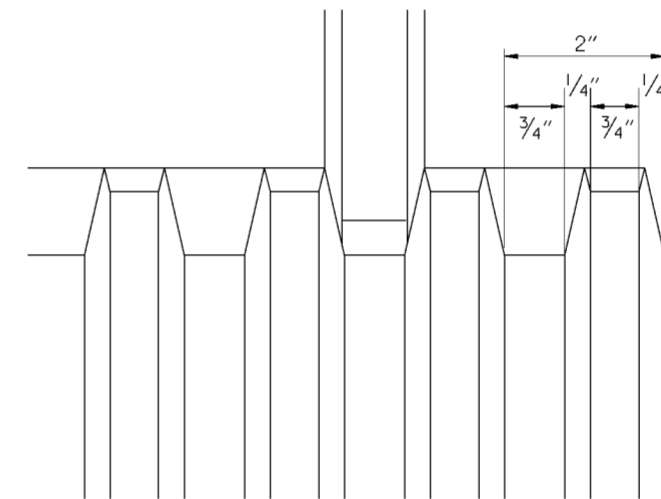
RUSTICATION TREATMENT-FRONT VIEW

SCALE: NONE



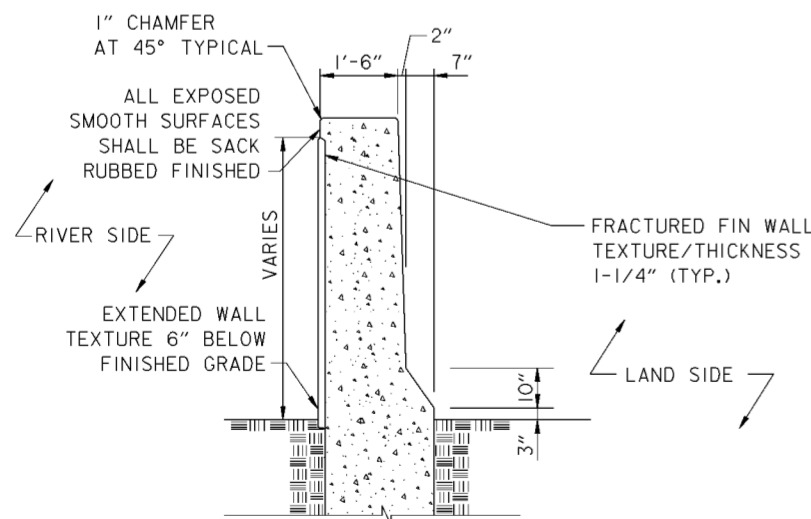
RUSTICATION TREATMENT-TOP VIEW

SCALE: NONE



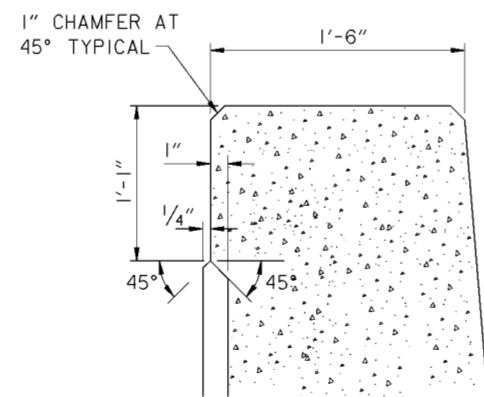
FINCAP JUNCTION DETAIL

SCALE: NONE



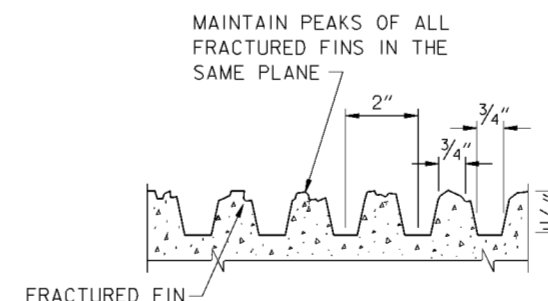
TYPICAL FLOODWALL SECTION

SCALE: NONE



TYPICAL CAP DETAIL

SCALE: NONE



TYPICAL FRACTURED FIN WALL TEXTURE

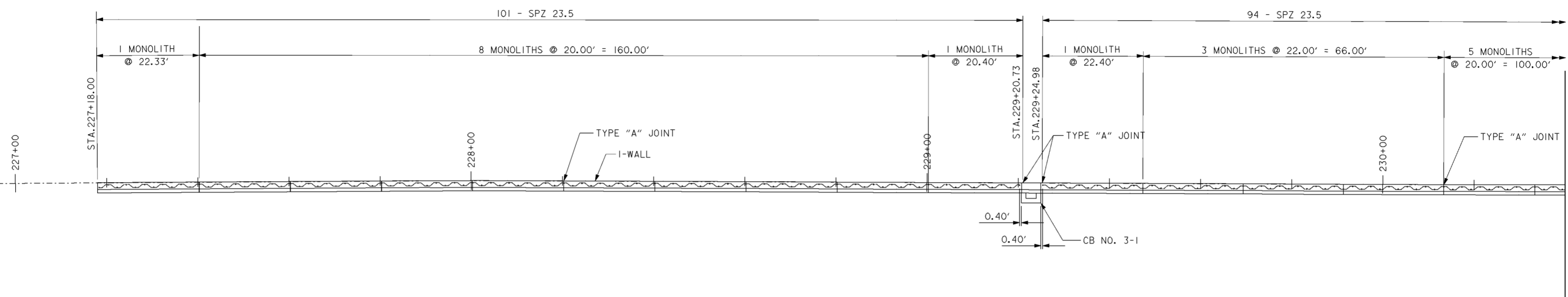
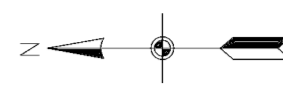
SCALE: 3/8" = 1'-0"
12" 0 2' 4' 6'

NOTES

1. WALL TEXTURE SHALL NOT ENCROACH ON CONCRETE COVER OF REINFORCEMENT.
2. RUSTICATION TREATMENTS SHOULD OCCUR AT THE CENTER POINTS OF EVERY WALL MONOLITH.

Revisions			
Symbol	Descriptions	Date	Approved

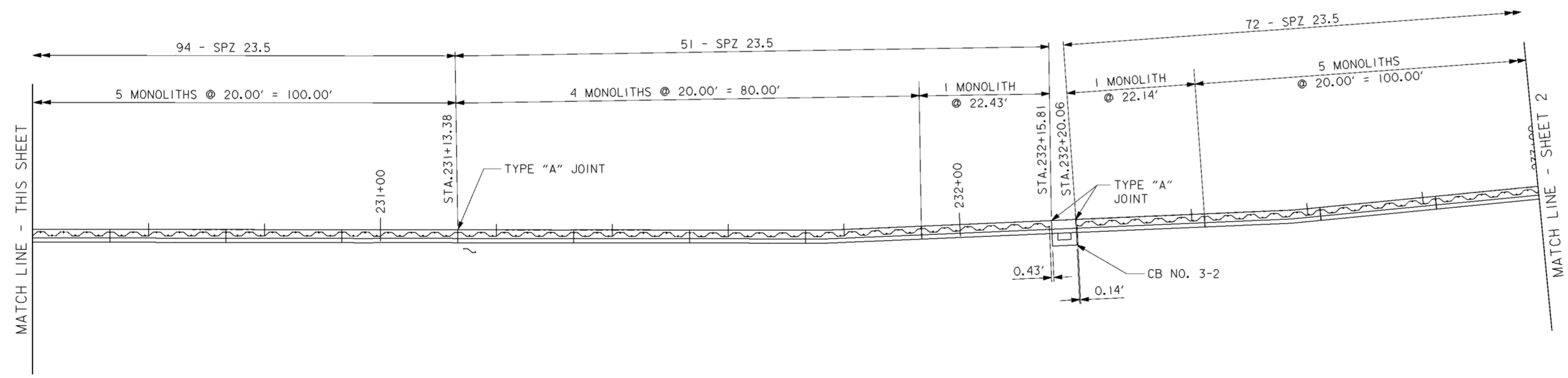
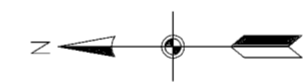
BURGESS & NIPL, LIMITED COLUMBUS, OHIO Designed by: P.CONROY Drawn by: A.PUMMELL Checked by: ROMAN Reviewed by: Approved by:	U.S. ARMY ENGINEER DISTRICT COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA FLOODWALL TEXTURE DETAILS	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA FLOODWALL TEXTURE DETAILS	FILENAME: 00wid101.dgn SHEET: 1 of 1
			Scale: AS SHOWN Date: OCTOBER 1999 Drawing Code: 16-PWC-12-



PLAN
 SCALE: 1" = 10'

NOTES

1. TYPE "A" JOINTS ARE REQUIRED AT CATCH BASINS AND WHERE SHOWN.
2. FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE ON DRAWING NO. 20.1/6.
3. FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/2.
4. ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
5. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/2.
6. FOR CORNER MONOLITH REINFORCING SEE DRAWING NO. 20.1/1.
7. SHEET PILING LAYOUT WAS BASED UPON THE PROPERTIES FOR SPZ-23.5 COLD-ROLLED STEEL SHEET PILING BY SYRO, INC. OTHER MANUFACTURERS OF STEEL SHEET PILING ARE ACCEPTABLE IF THEY MEET THE MINIMUM SECTION PROPERTIES OF Z-TYPE SHEET PILING GIVEN IN SPECIFICATION 02411. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL REVISED WALL MONOLITH JOINT SPACING THAT IS MODULAR WITH WIDTH OF THE PILES PROVIDED.
8. WALL MONOLITHS SHALL NOT EXCEED 22 FEET UNLESS NOTED OR APPROVED BY THE CONTRACTING OFFICER. THE DISTANCE BETWEEN TYPE "A" JOINTS SHALL NOT EXCEED 111 FEET.



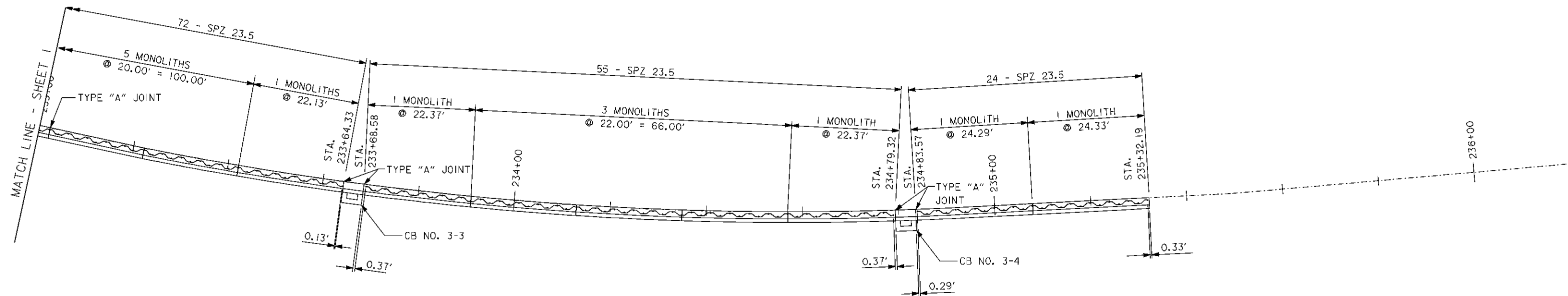
PLAN
 SCALE: 1" = 10'

Revisions			
Symbol	Descriptions	Date	Approved

REV. IN ACCORDANCE WITH MODIFICATION MCO03 5/17/00 P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P. CONROY	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	FLOODWALL PLAN STA. 227 + 00 TO 233 + 00
Checked by: L. LINZELL	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-

Sheet reference number: **20.15**
 FILENAME: 00app01.dgn
 PIN TABLE:
 Sheet 1 of 4



PLAN
 SCALE: 1" = 10'

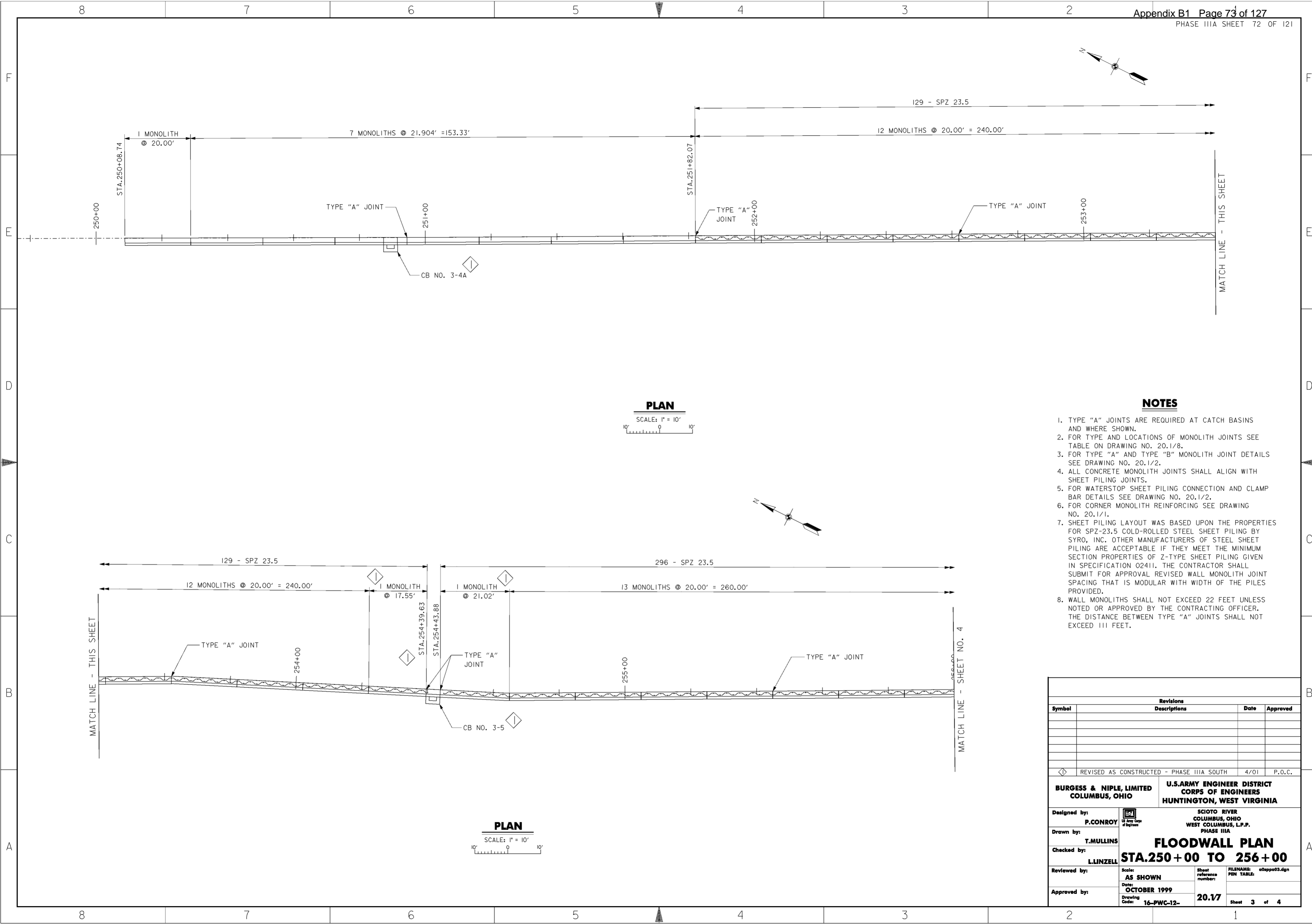
WALL JOINTS			
STATION	TYPE	STATION	TYPE
227+40.33	B	232+20.06	A
227+60.33	B	232+42.20	B
227+80.33	B	232+62.20	B
227+00.33	B	232+82.20	B
228+20.33	A	233+02.20	A
228+40.33	B	233+22.20	B
228+60.33	B	233+42.20	B
228+80.33	B	233+64.33	A
229+00.33	B	233+68.58	A
229+20.73	A	233+90.95	B
229+24.98	A	234+12.95	B
229+47.38	B	234+34.95	B
229+69.38	B	234+56.95	B
229+91.38	B	234+79.32	A
230+13.38	A	234+83.57	A
230+33.38	B	235+07.86	B
230+53.38	B		
230+73.38	B		
230+93.38	B		
231+13.38	A		
231+33.38	B		
231+53.38	B		
231+73.38	B		
231+93.38	B		
232+15.81	A		

NOTES

- TYPE "A" JOINTS ARE REQUIRED AT CATCH BASINS AND WHERE SHOWN.
- FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE ON THIS DRAWING.
- FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/2.
- ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
- FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/2.
- FOR CORNER MONOLITH REINFORCING SEE DRAWING NO. 20.1/1.
- SHEET PILING LAYOUT WAS BASED UPON THE PROPERTIES FOR SPZ-23.5 COLD-ROLLED STEEL SHEET PILING BY SYRO, INC. OTHER MANUFACTURERS OF STEEL SHEET PILING ARE ACCEPTABLE IF THEY MEET THE MINIMUM SECTION PROPERTIES OF Z-TYPE SHEET PILING GIVEN IN SPECIFICATION 02411. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL REVISED WALL MONOLITH JOINT SPACING THAT IS MODULAR WITH WIDTH OF THE PILES PROVIDED.
- WALL MONOLITHS SHALL NOT EXCEED 22 FEET UNLESS NOTED OR APPROVED BY THE CONTRACTING OFFICER. THE DISTANCE BETWEEN TYPE "A" JOINTS SHALL NOT EXCEED 111 FEET.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REV. IN ACCORDANCE WITH MODIFICATION MC003	5/17/00	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT MC001	2/28/00	P.O.C.

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: P. CONROY	SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	FLOODWALL PLAN STA. 233+00 TO 237+00
Checked by: L. LINZELL	Scale: AS SHOWN Date: OCTOBER 1999 Drawing Code: 16-PWC-12-
Reviewed by:	Sheet reference number: 20.1/6 FILENAME: 00app02.dgn PLOT TABLE:
Approved by:	Sheet 2 of 4



PLAN

SCALE: 1" = 10'

NOTES

1. TYPE "A" JOINTS ARE REQUIRED AT CATCH BASINS AND WHERE SHOWN.
2. FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE ON DRAWING NO. 20.1/8.
3. FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/2.
4. ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
5. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/2.
6. FOR CORNER MONOLITH REINFORCING SEE DRAWING NO. 20.1/1.
7. SHEET PILING LAYOUT WAS BASED UPON THE PROPERTIES FOR SPZ-23.5 COLD-ROLLED STEEL SHEET PILING BY SYRO, INC. OTHER MANUFACTURERS OF STEEL SHEET PILING ARE ACCEPTABLE IF THEY MEET THE MINIMUM SECTION PROPERTIES OF Z-TYPE SHEET PILING GIVEN IN SPECIFICATION 02411. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL REVISED WALL MONOLITH JOINT SPACING THAT IS MODULAR WITH WIDTH OF THE PILES PROVIDED.
8. WALL MONOLITHS SHALL NOT EXCEED 22 FEET UNLESS NOTED OR APPROVED BY THE CONTRACTING OFFICER. THE DISTANCE BETWEEN TYPE "A" JOINTS SHALL NOT EXCEED 111 FEET.

PLAN

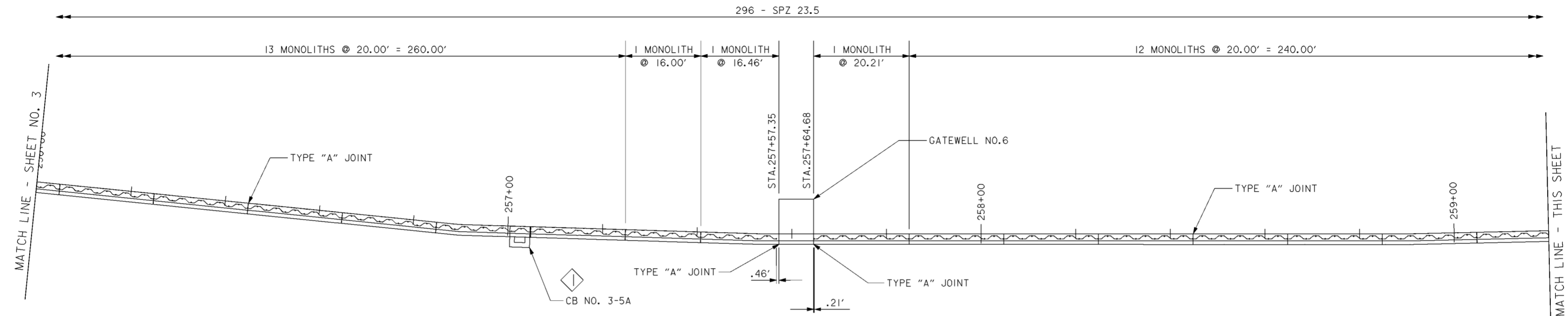
SCALE: 1" = 10'

Revisions			
Symbol	Descriptions	Date	Approved

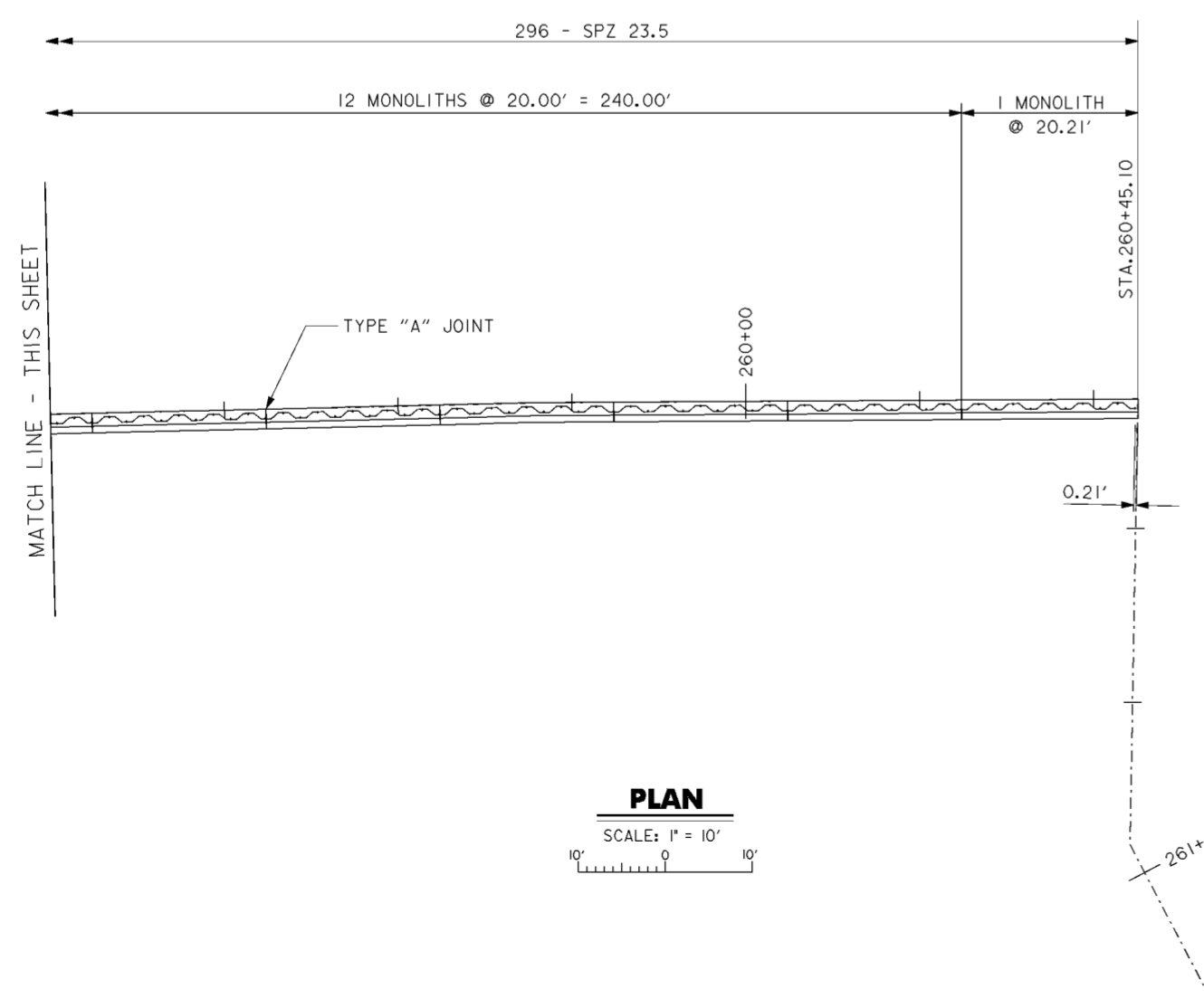
◇ REVISED AS CONSTRUCTED - PHASE IIIA SOUTH 4/01 P.O.C.

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 IIIA	
Drawn by: T. MULLINS		FLOODWALL PLAN STA. 250 + 00 TO 256 + 00	
Checked by: L. LINZELL	Scale: AS SHOWN		
Reviewed by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 3 of 4

WORK AS CONSTRUCTED



PLAN
 SCALE: 1" = 10'



PLAN
 SCALE: 1" = 10'

NOTES

1. TYPE "A" JOINTS ARE REQUIRED AT CATCH BASINS AND WHERE SHOWN.
2. FOR TYPE AND LOCATIONS OF MONOLITH JOINTS SEE TABLE ON THIS DRAWING.
3. FOR TYPE "A" AND TYPE "B" MONOLITH JOINT DETAILS SEE DRAWING NO. 20.1/2.
4. ALL CONCRETE MONOLITH JOINTS SHALL ALIGN WITH SHEET PILING JOINTS.
5. FOR WATERSTOP SHEET PILING CONNECTION AND CLAMP BAR DETAILS SEE DRAWING NO. 20.1/2.
6. FOR CORNER MONOLITH REINFORCING SEE DRAWING NO. 20.1/1.
7. SHEET PILING LAYOUT WAS BASED UPON THE PROPERTIES FOR SPZ-23.5 COLD-ROLLED STEEL SHEET PILING BY SYRO, INC. OTHER MANUFACTURERS OF STEEL SHEET PILING ARE ACCEPTABLE IF THEY MEET THE MINIMUM SECTION PROPERTIES OF Z-TYPE SHEET PILING GIVEN IN SPECIFICATION 02411. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL REVISED WALL MONOLITH JOINT SPACING THAT IS MODULAR WITH WIDTH OF THE PILES PROVIDED.
8. WALL MONOLITHS SHALL NOT EXCEED 22 FEET UNLESS NOTED OR APPROVED BY THE CONTRACTING OFFICER. THE DISTANCE BETWEEN TYPE "A" JOINTS SHALL NOT EXCEED 111 FEET.

WALL JOINTS			
STATION	TYPE	STATION	TYPE
250+28.74	B	255+44.89	A
250+50.64	B	255+64.89	B
250+72.55	B	255+84.89	B
250+94.45	A	256+04.89	B
251+16.36	B	256+24.89	B
251+38.26	B	256+44.89	A
251+60.17	B	256+64.89	B
251+82.07	A	256+84.89	B
252+02.07	B	257+04.89	B
252+22.07	B	257+24.89	B
252+42.07	B	257+40.89	B
252+62.07	A	257+57.35	A
252+82.07	B	257+64.68	A
253+02.07	B	257+84.89	B
253+22.07	B	258+04.89	B
253+42.07	B	258+24.89	B
253+62.07	A	258+44.89	A
253+82.07	B	258+64.89	B
254+02.07	B	258+84.89	B
254+22.07	B	259+04.89	B
254+40.42	A	259+24.89	B
254+44.67	A	259+44.89	A
254+64.89	B	259+64.89	B
254+84.89	B	259+84.89	B
255+04.89	B	260+04.89	B
255+24.89	B	260+24.89	B

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: L. LINZELL

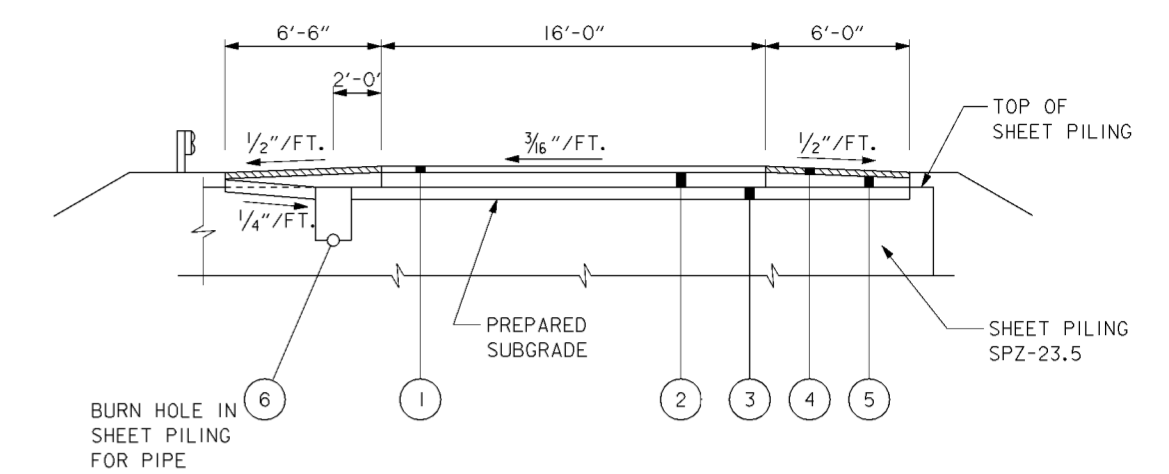
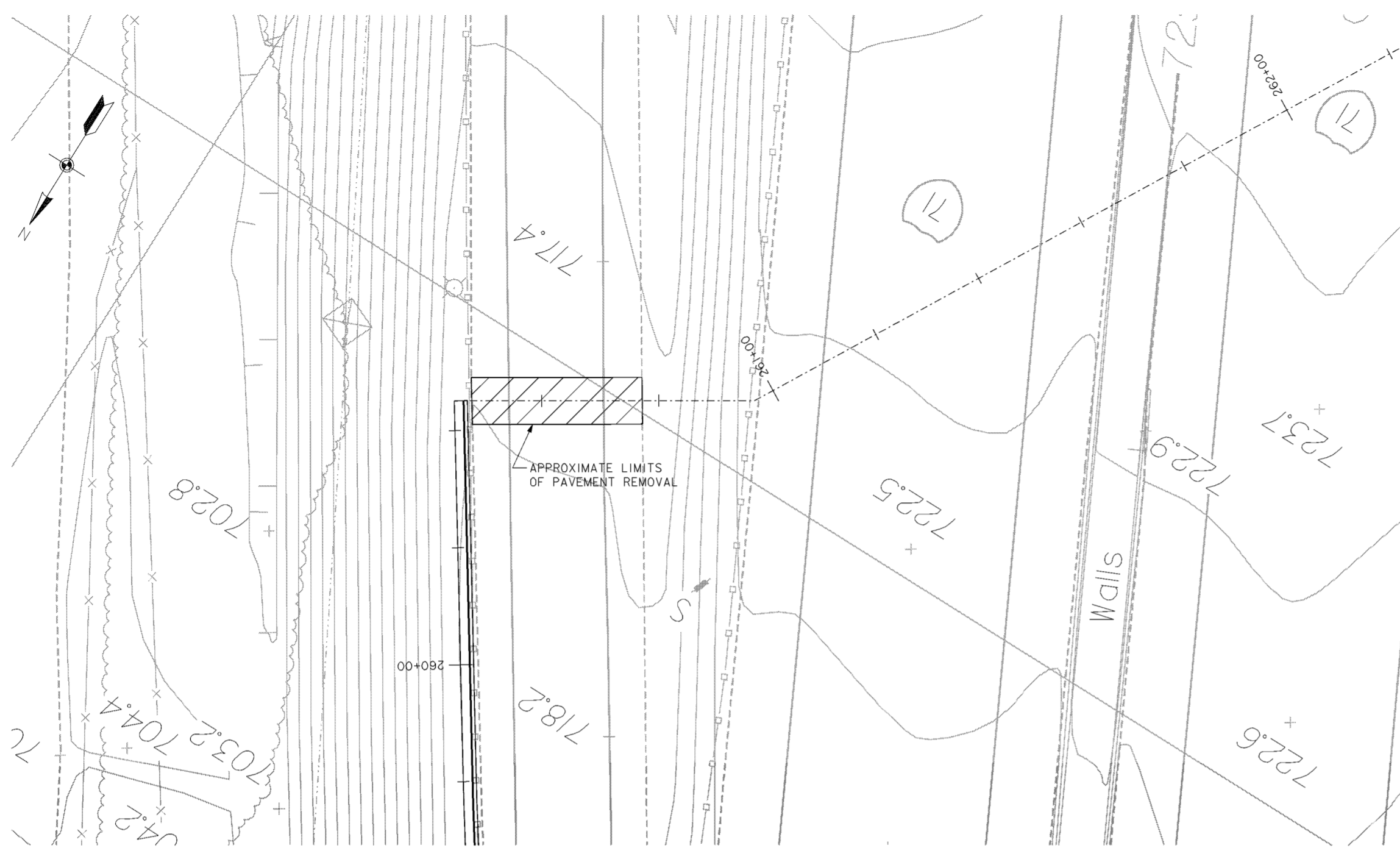
SCIO TO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

FLOODWALL PLAN
STA. 256 + 00 TO 260 + 45

Reviewed by: AS SHOWN
 Date: OCTOBER 1999
 Drawing Code: 16-PWC-12-

Sheet reference number: 20.1/8
 FILENAME: a0ppa04.dgn
 PEN TABLE:
 Sheet 4 of 4

WORK AS CONSTRUCTED

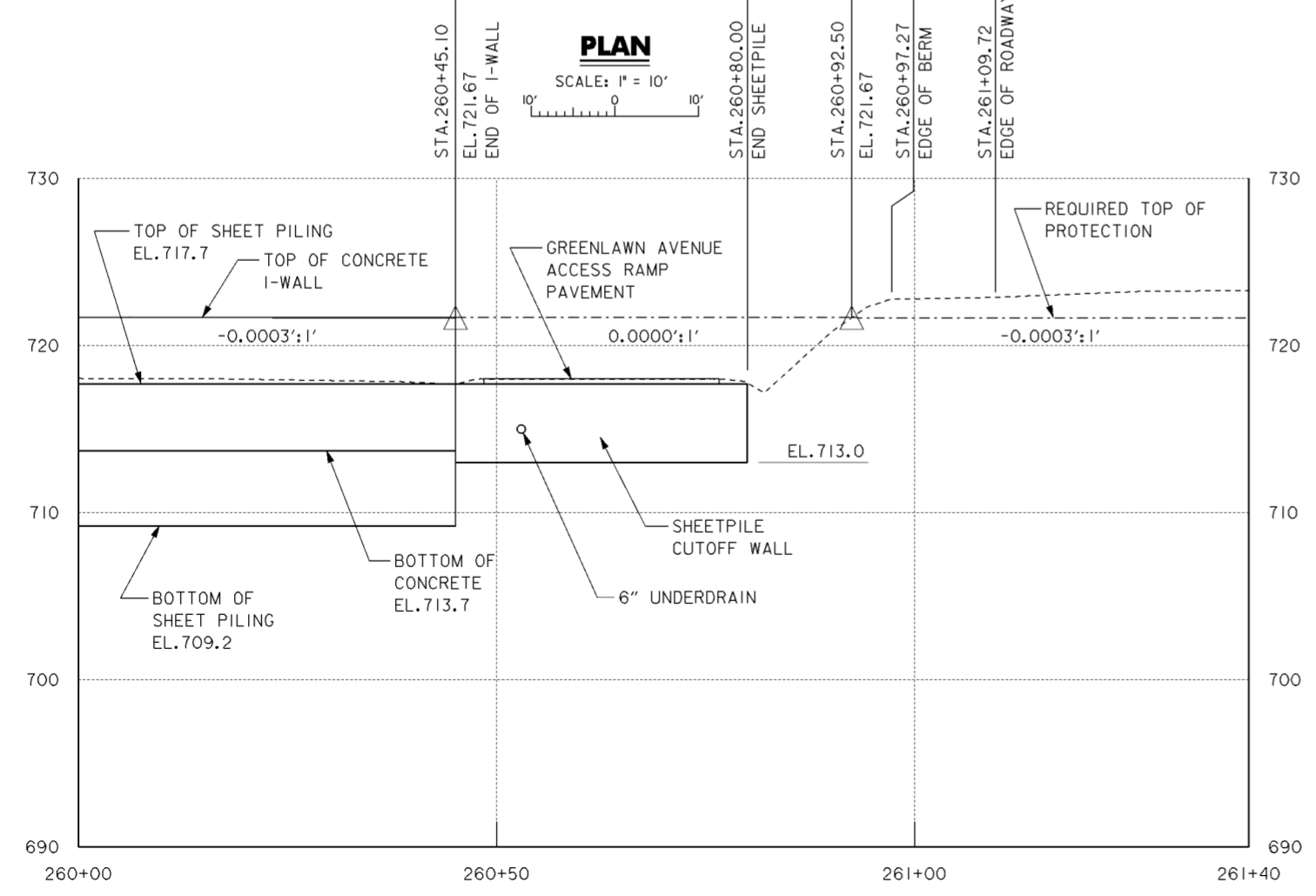


EXISTING		REPLACEMENT	
CMSC/ODOT ITEM	DESCRIPTION	CMSC/ODOT ITEM	DESCRIPTION
①	T-35/B-35 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE "C" OVER 1/2" ASPHALT LEVELING COURSE (1957)	①	404/402 1/2" MIN. (MATCH EXISTING THICKNESS) ASPHALT CONCRETE SURFACE COURSE OVER 1/2" ASPHALT CONCRETE BASE COURSE
②	B-70 9" PORTLAND CEMENT CONCRETE BASE COURSE (1957)	②	451 9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
③	I-22 SUBBASE GRADING A OR B MODIFIED, THICKNESS VARIES (1957)	③	310 SUBBASE, MATCH EXISTING THICKNESS
④	B-33 3" BITUMINOUS MACADAM BASE COURSE (1957)	④	404/301 ASPHALT CONCRETE SURFACE COURSE (MATCH EXISTING THICKNESS) OVER 3" BITUMINOUS AGGREGATE BASE
⑤	I-18 STABILIZED CRUSHED AGGREGATE SHOULDERS (1957)	⑤	304 9" AGGREGATE BASE
⑥	I-4 6" PIPE UNDERDRAIN (1957)	⑥	605 6" PIPE UNDERDRAIN

NOTE: SURFACE TO RECEIVE TACK COAT, CMSC ITEM 407, WITHOUT COVER AGGREGATE PRIOR TO EACH APPLICATION OF BITUMINOUS PAVING.

NOTES

- FOR ADDITIONAL PAVEMENT REPLACEMENT AND DOWEL DETAILS SEE DRAWING NO.20.1/3.

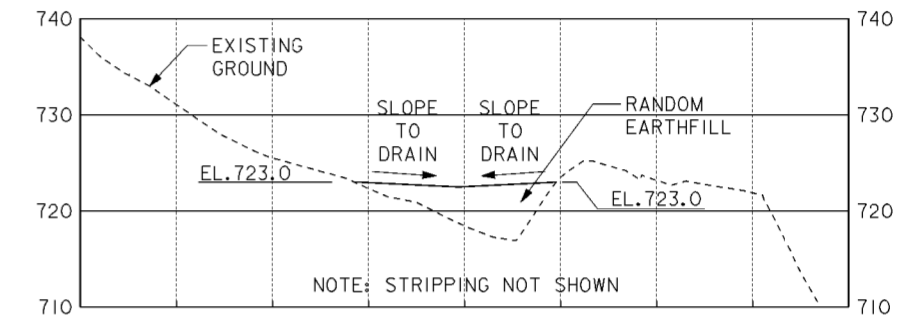


Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: J. HALL	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
Drawn by: T. MULLINS	GREENLAWN AVENUE CLOSURE PLAN & PROFILE		
Checked by: P. CONROY			
Reviewed by:	Scale: AS SHOWN	Sheet reference number: 20.21	FILENAME: 00g1pp01.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	PIN TABLE: 20.21
			Sheet 1 of 1



CATCH BASIN NO.3-6 (SEE NOTE 1).
 15" OUT INV. EL.714.35 (SEE NOTE 2).
 TOP OF CASTING EL.722.5



**SECTION A-A
 FILL AREA NO.3 EMBANKMENT**

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

NOTES

1. REMOVE EXISTING CATCH BASIN AND REPLACE WITH ODOT NO.5 CATCH BASIN. SEE DATA ON DRAWING FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF CATCH BASIN NO.3-6. EXISTING CATCH BASIN WAS FILLED WITH DIRT AND INVERT ELEVATION COULD NOT BE DETERMINED. INVERT ELEVATION WAS OBTAINED FROM FRA-70-12.31S DRAWINGS.
3. FOR FILL AREA NO.1 SITE PLAN AND DETAILS SEE DRAWING NO.20.2/3
4. FOR FILL AREA NO.2 SITE PLAN AND DETAILS SEE DRAWING NO.20.2/4.
5. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO.15/8.

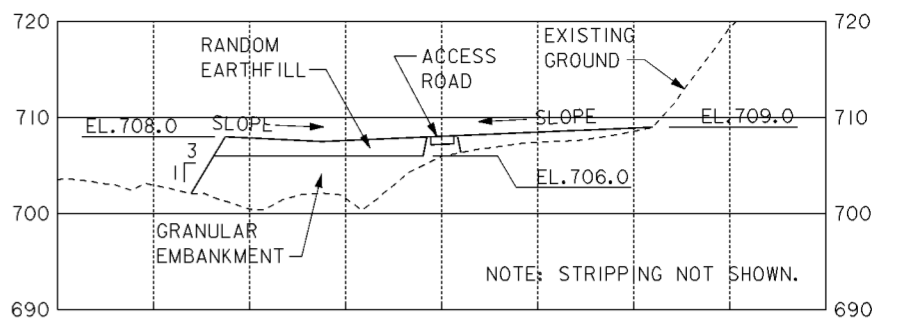
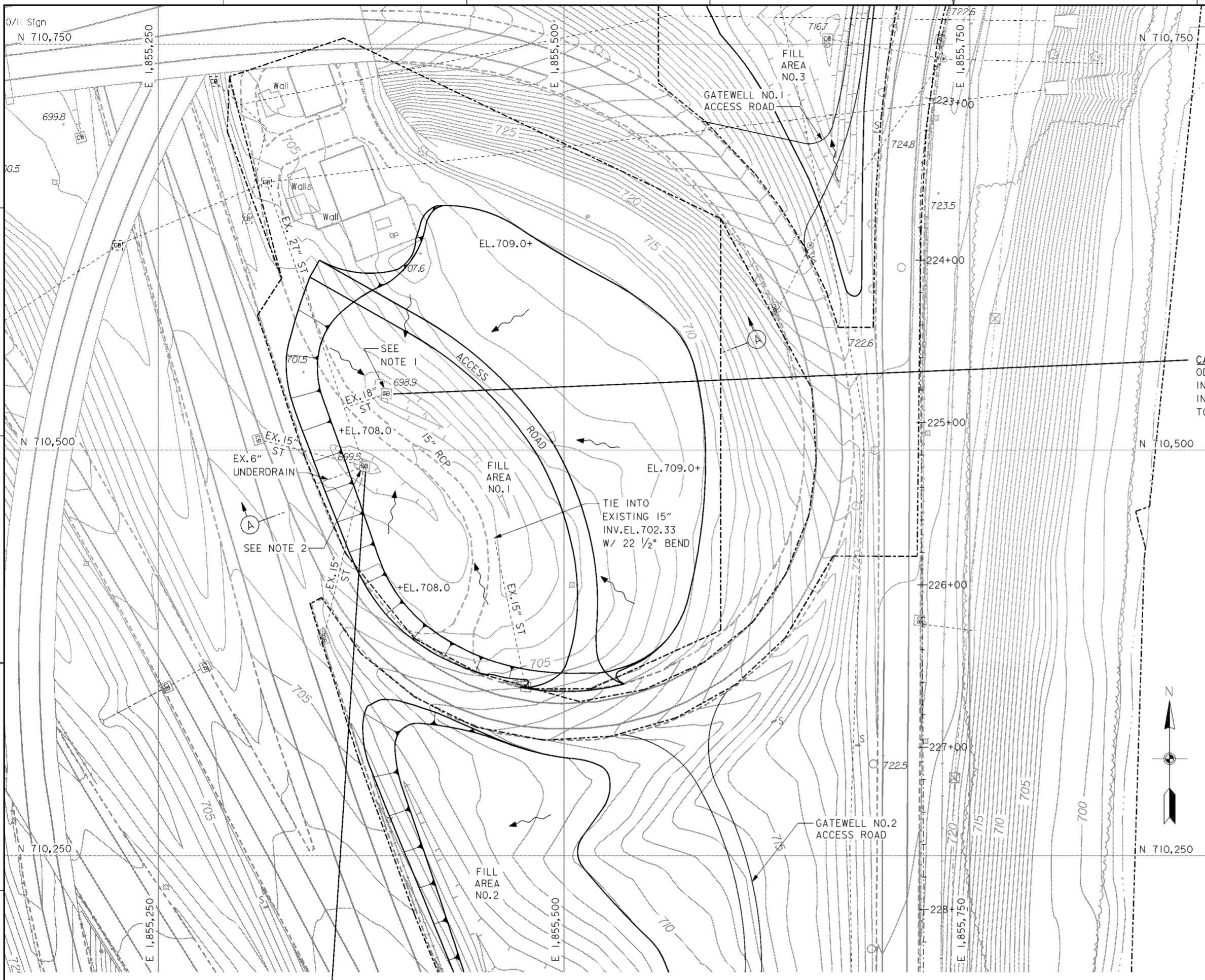
PLAN
 SCALE: 1" = 50'
 50' 0 50'

LEGEND

APPROXIMATE FILL AREA LIMITS

Revisions			
Symbol	Descriptions	Date	Approved

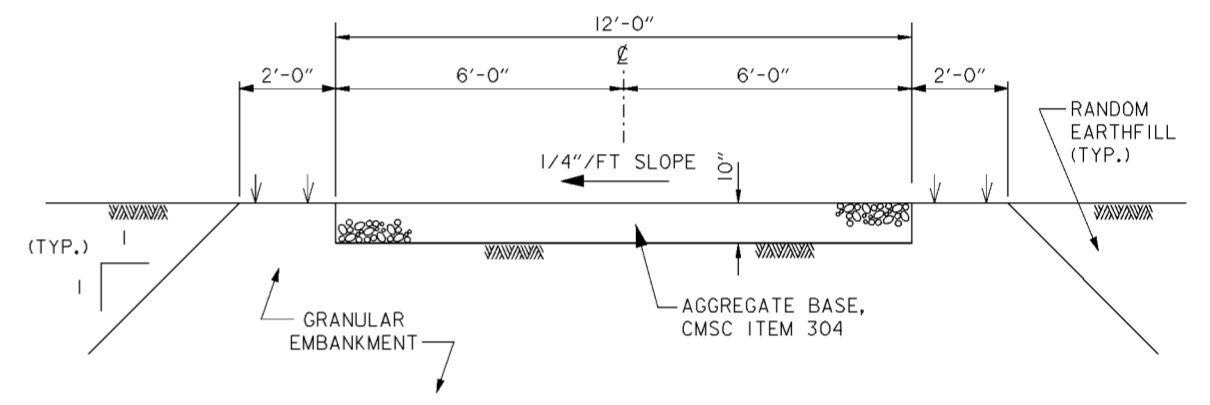
BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J. HALL		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by: T. MULLINS		FILL AREA SITE PLAN	
Checked by: P. CONROY		Scale: AS SHOWN	Sheet reference number: 20.2/2
Reviewed by:		Date: OCTOBER 1999	FILENAME: 00azp01.dgn
Approved by:		Drawing Code: 16-PWC-12-	Sheet 1 of 1



**SECTION A-A
FILL AREA NO.1 EMBANKMENT**

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

CATCH BASIN NO.3-7 (SEE NOTE 3)
ODOT STANDARD NO.5 CB
INV.EL. 15" IN 699.0
INV.EL. EX. 18" OUT 696.0
TOP OF CASTING EL. 707.50



TYPICAL ACCESS ROAD SECTION

SCALE: 1/2" = 1'-0"
12' 0 1 2 3 4'

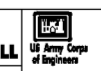
NOTES

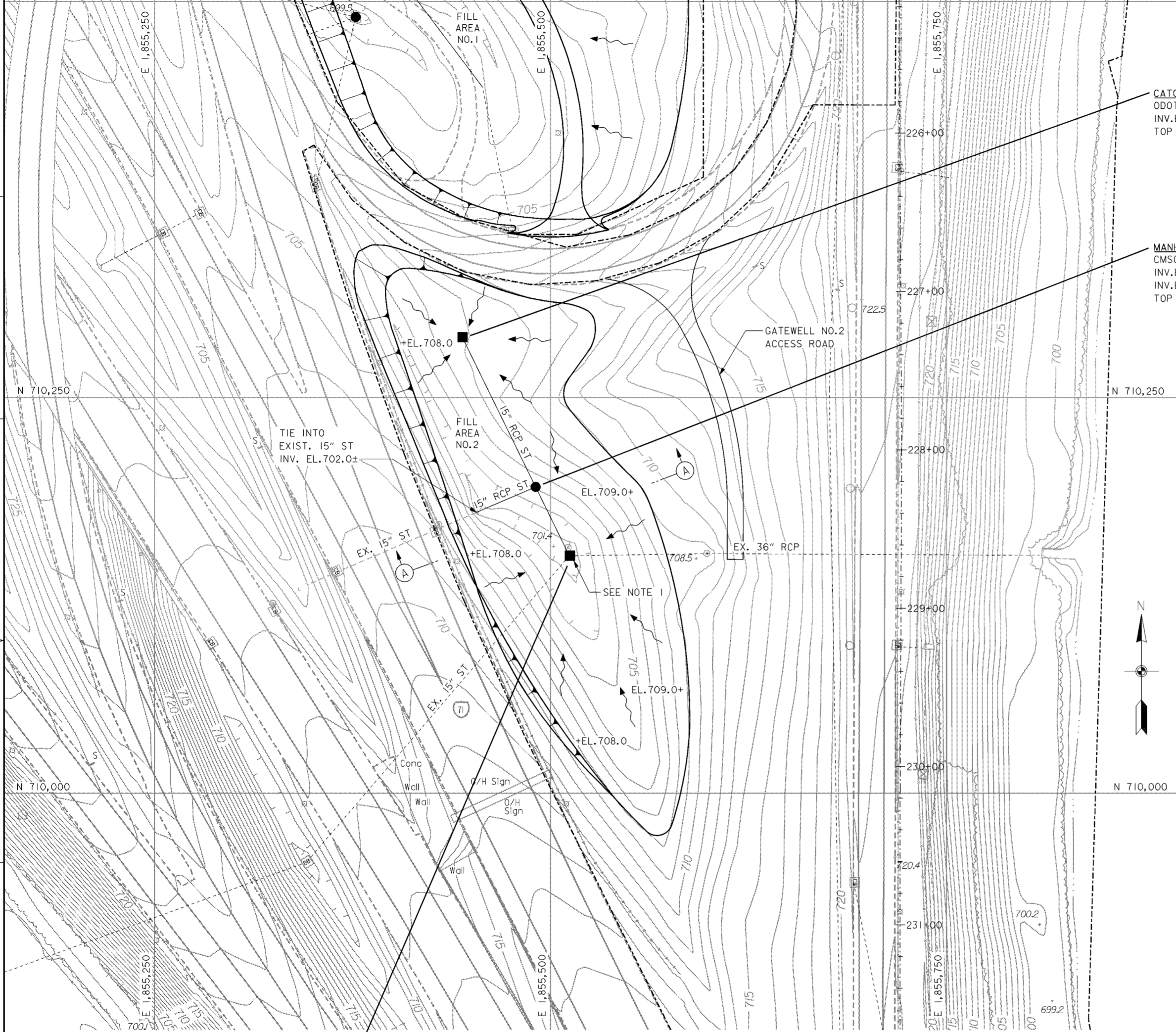
- REMOVE EXISTING CATCH BASIN AND REPLACE WITH ODOT STANDARD NO.5 CATCH BASIN. SEE DATA ON DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING CATCH BASIN AND REPLACE WITH CMSC TYPE "C" MANHOLE. SEE DATA ON DRAWINGS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING STORM SEWERS INTO CATCH BASIN NO.3-7 AND MANHOLE NO.3-10. INVERT ELEVATIONS WERE OBTAINED FROM ODOT FRA-70-12.31S DRAWINGS.
- FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO.15/8.

MANHOLE NO.3-10 (SEE NOTE 3)
CMSC TYPE "C" MANHOLE
INV.EL. EX. 15" IN 695.51
INV.EL. EX. 27" OUT 693.7
INV.EL. EX. 6" UNDERDRAIN 696.0
TOP OF CASTING EL. 707.95

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



Revisions			
Symbol	Descriptions	Date	Approved
◇ REVISED PER NEGOTIATIONS MEETING - 1/13/00 1/21/00 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 IIIA	FILL AREA NO.1 SITE PLAN	
Drawn by: T.MULLINS			
Checked by: P.CONROY			
Reviewed by:			
Approved by:			
Scale: AS SHOWN		Sheet reference number: 20.23	FILENAME: 00azp02.dgn
Date: OCTOBER 1999		PIN TABLE:	
Drawing Code: 16-PWC-12-		Sheet 1 of 1	

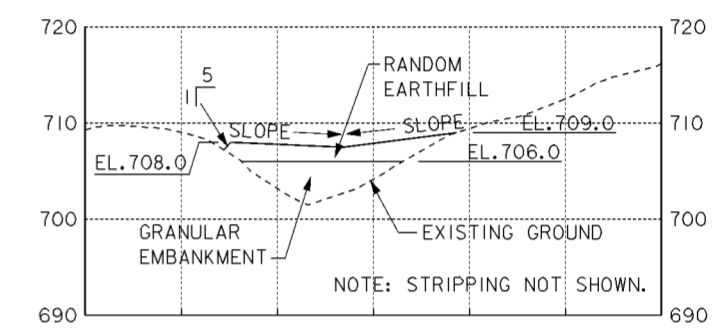


CATCH BASIN NO.3-8
 ODOT STANDARD NO.5 CB
 INV.EL. 15" OUT 703.0
 TOP OF CASTING EL. 707.5

MANHOLE NO.3-11
 CMSC TYPE "C" MANHOLE
 INV.EL. 15" IN 699.0
 INV.EL. 15" OUT 699.0
 TOP OF CASTING EL. 707.8

CATCH BASIN NO.3-9 (SEE NOTE 2)
 ODOT STANDARD NO.5 CB
 INV.EL. EX. 36" OUT 697.0
 INV.EL. EX. 15" IN 698.75
 INV.EL. 15" IN 697.0
 TOP OF CASTING EL. 707.5

PLAN
 SCALE: 1" = 30'



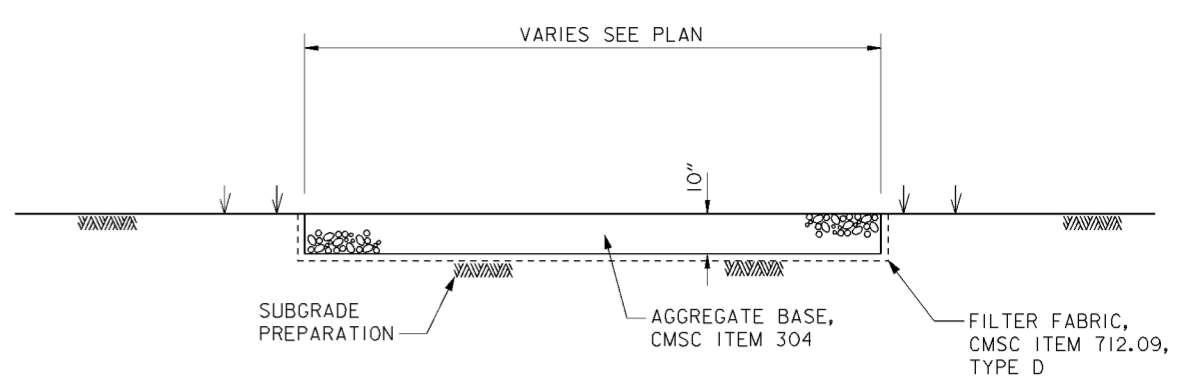
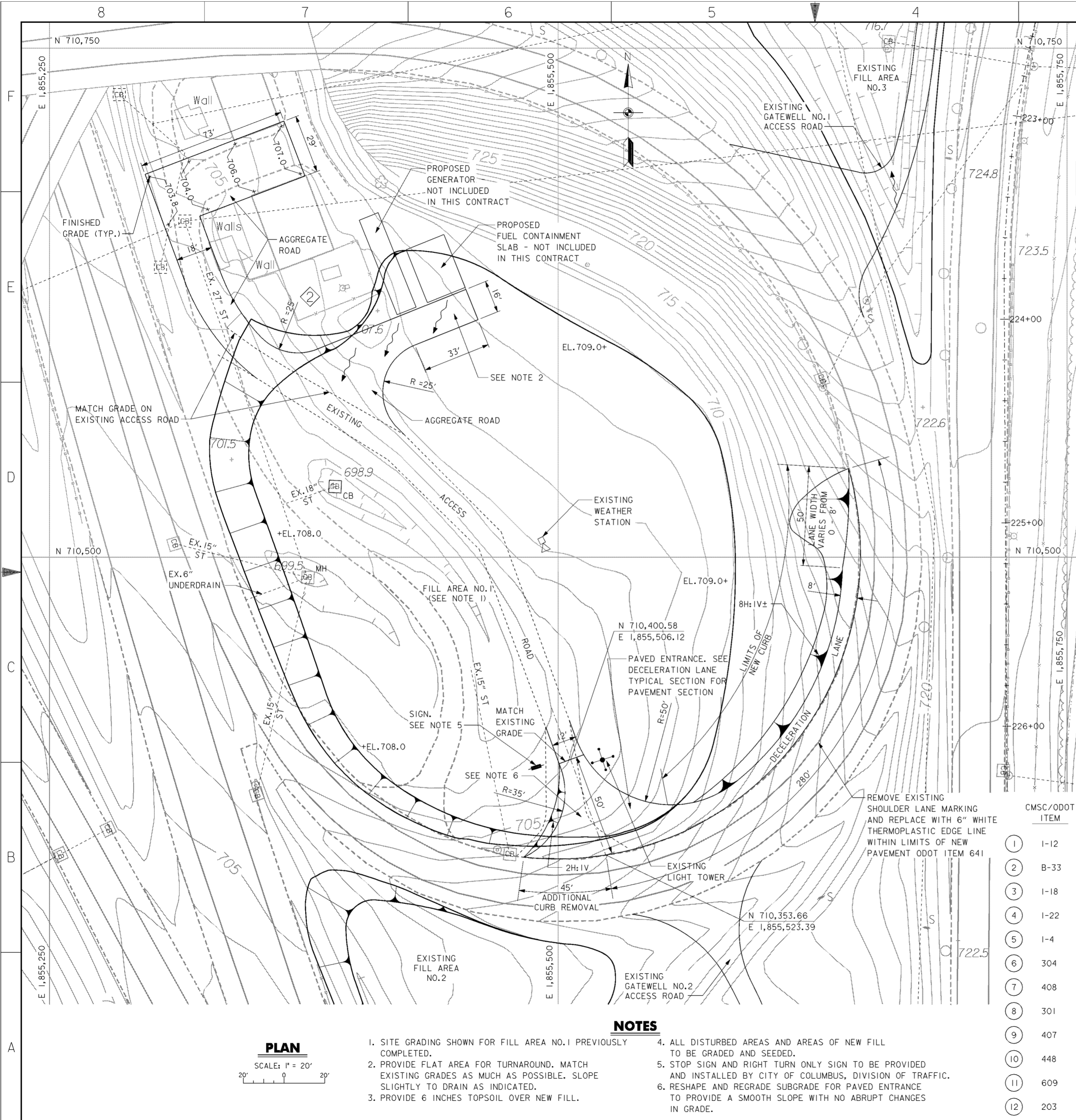
SECTION A-A
FILL AREA NO.2 EMBANKMENT

SCALE: 1" = 50'

NOTES

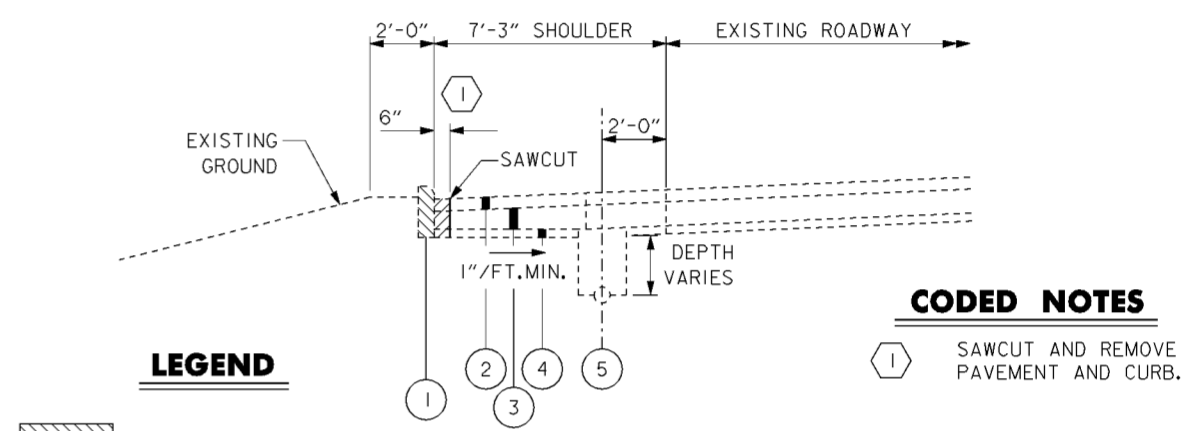
1. REMOVE EXISTING CATCH BASIN AND REPLACE WITH ODOT STANDARD NO.5 CATCH BASIN. SEE DATA ON DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING STORM SEWERS INTO CATCH BASIN NO.3-9. INVERT ELEVATIONS WERE OBTAINED FROM ODOT FRA-70-12.31S DRAWINGS.
3. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO.15/8.

Revisions			
Symbol	Descriptions	Date	Approved
◇ REVISED PER NEGOTIATIONS MEETING - 1/13/00 1/21/00 P.O.C.			
BURGESS & NIPL, 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 IIIA FILL AREA NO.2 SITE PLAN	
Drawn by:	T.MULLINS		
Checked by:	P.CONROY		
Reviewed by:			
Approved by:		Scale: AS SHOWN	Sheet reference number: 20.2/4
		Date: OCTOBER 1999	FILENAME: 00azpp03.dgn
		Drawing Code: 16-PWC-12-	PIN TABLE: Sheet 1 of 1



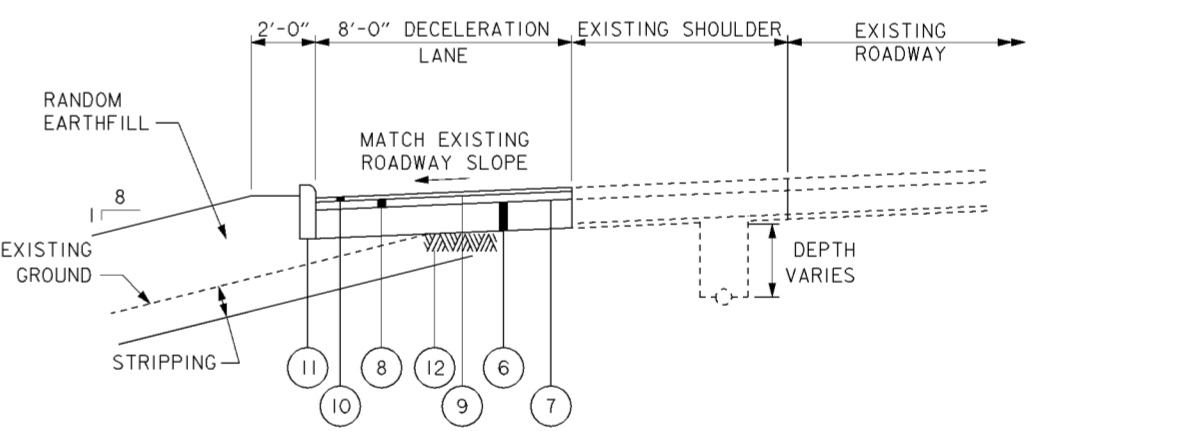
AGGREGATE ROAD TYPICAL SECTION

SCALE: 1/2" = 1'-0"
 0 1 2 3 4



EXISTING SECTION

NOTE: EXISTING SECTION IS APPROXIMATE TO BE VERIFIED BY THE CONTRACTOR.
 SCALE: 1" = 3'



DECELERATION LANE TYPICAL SECTION

DECELERATION LANE
 SCALE: 1" = 3'
 0 1 2 3

CMSC/ODOT ITEM	DESCRIPTION
1	1-12 TYPE 6 CURB (1957)
2	B-33 3" BITUMINOUS AGGREGATE BASE (1957)
3	1-18 STABILIZED CRUSHED AGGREGATE SHOULDERS (1957)
4	1-22 SUBBASE, GRADING A OR B MODIFIED, THICKNESS VARIES (1957)
5	1-4 6" PIPE UNDERDRAIN (1957)
6	304 4" AGGREGATE BASE
7	408 PRIME COAT
8	301 6" BITUMINOUS AGGREGATE BASE
9	407 TACK COAT
10	448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, MATCH EXISTING THICKNESS (1 1/2" MIN.)
11	609 TYPE 6 CURB
12	203 PREPARED SUBGRADE

NOTES

- SITE GRADING SHOWN FOR FILL AREA NO.1 PREVIOUSLY COMPLETED.
- PROVIDE FLAT AREA FOR TURNAROUND. MATCH EXISTING GRADES AS MUCH AS POSSIBLE. SLOPE SLIGHTLY TO DRAIN AS INDICATED.
- PROVIDE 6 INCHES TOPSOIL OVER NEW FILL.
- ALL DISTURBED AREAS AND AREAS OF NEW FILL TO BE GRADED AND SEEDED.
- STOP SIGN AND RIGHT TURN ONLY SIGN TO BE PROVIDED AND INSTALLED BY CITY OF COLUMBUS, DIVISION OF TRAFFIC.
- RESHAPE AND REGRADE SUBGRADE FOR PAVED ENTRANCE TO PROVIDE A SMOOTH SLOPE WITH NO ABRUPT CHANGES IN GRADE.

PLAN
 SCALE: 1" = 20'
 0 20 40

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED - PHASE IIIA NORTH	4/01	P.O.C.
◇	ADDED BY MODIFICATION M0009	11/00	P.O.C.

BURGESS & NIPLÉ, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS WEST COLUMBUS, WEST VIRGINIA
Designed by: J. HALL	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	DECELERATION LANE AND ACCESS ROAD
Checked by: P. CONROY	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-

Sheet 1 of 1

EXISTING LIGHT POLE LOCATION AND DESCRIPTION SCHEDULE

①	STA. 220+30	250-II-AT10B34.2 13B
②	STA. 221+34	250-II-AT10B34.2 13A
③	STA. 223+11	250-II-AT10B34.2 13
④	STA. 225+06	250-II-AT10B34.2 12
⑤	STA. 226+96	250-II-AT10B34.2 11. REMOVE EXISTING LINE SIDE CABLE AND CONNECTOR KITS. CLEAN CONDUIT AND PLUG TEMPORARILY UNTIL NEW CONDUCTORS ARE PULLED IN.
⑥	STA. 227+38	PULLBOX FOR EXISTING CIRCUIT "I" FEEDER
⑦	STA. 228+90	250-II-AT10B34.2 19
⑧	STA. 230+92	250-II-AT10B34.2 110
⑨	STA. 232+85	310-II-AT10B41.7 111
⑩	STA. 234+60	FOUNDATION ONLY. LIGHTPOLE AND LUMINARE MISSING.
⑪	STA. 235+51	DISCONNECT EXISTING SIGN CIRCUIT IN EXISTING PULL BOX. REMOVE EXISTING ROADWAY LIGHTING CIRCUIT TO NORTH FROM BOX.
⑫	STA. 236+45	310-III-AT15B41.7 113
⑬	STA. 238+57	310-III-AT15B41.7 114

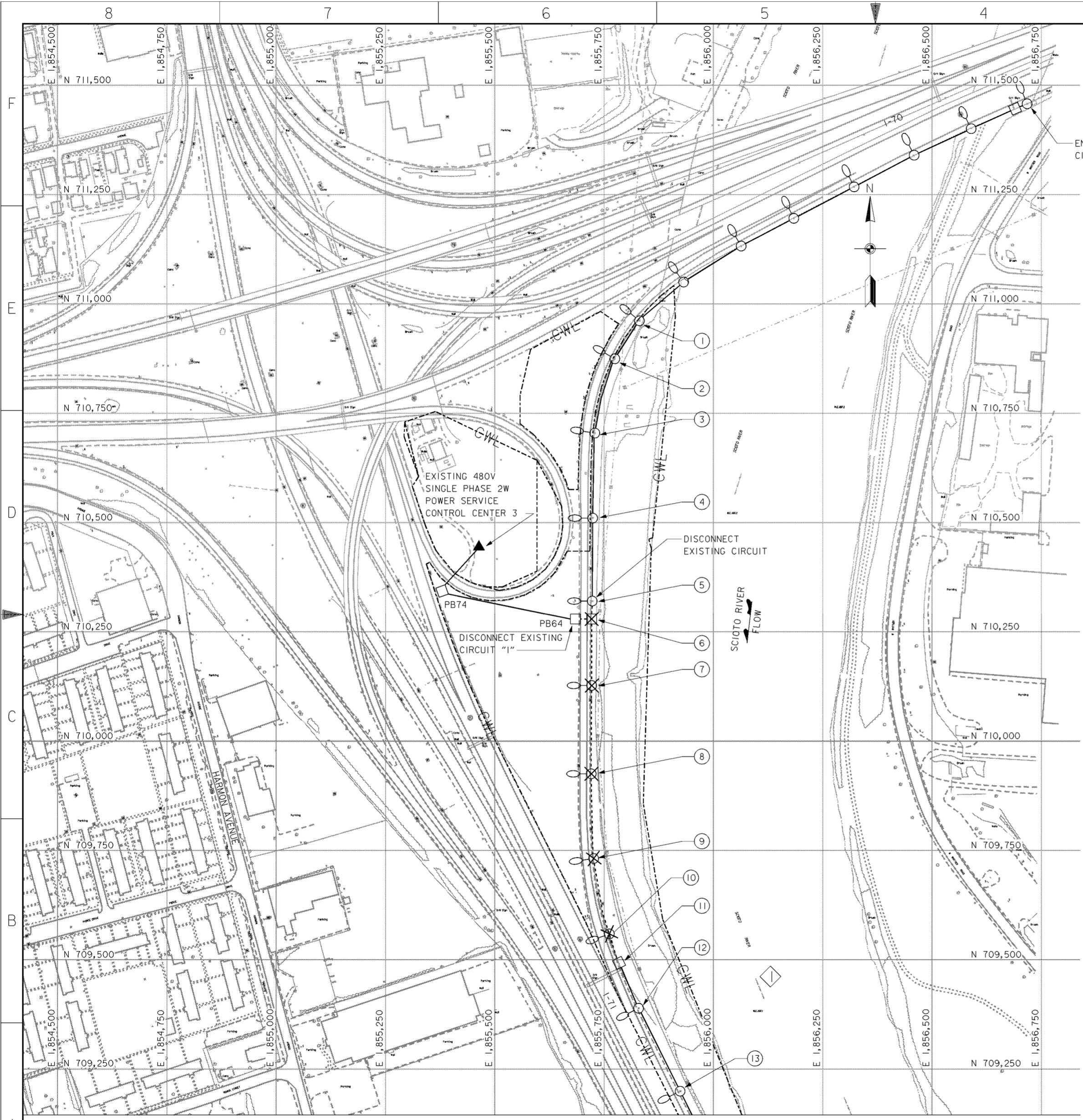
LEGEND

- EXISTING LIGHT POLE AND FOUNDATION TO REMAIN
- EXISTING LIGHT POLE AND FOUNDATION TO BE REMOVED
- EXISTING UNDERGROUND LIGHTING CIRCUIT TO REMAIN IN USE
- EXISTING UNDERGROUND LIGHTING CIRCUIT TO BE ABANDONED
- CONTRACTOR WORK LIMITS
- EXISTING PULL BOX TO REMAIN
- EXISTING PULL BOX TO BE REMOVED
- EXISTING LIGHT TOWER

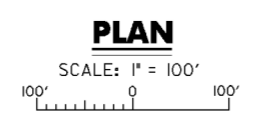
NOTES

1. REFER TO SPECIFICATIONS SECTION 16528.3.16 FOR MAINTENANCE OF EXISTING LIGHTING DURING CONSTRUCTION.
2. SEE LIGHT POLE DESIGN NUMBER DESIGNATIONS ON DRAWING NO. 20.2/9.

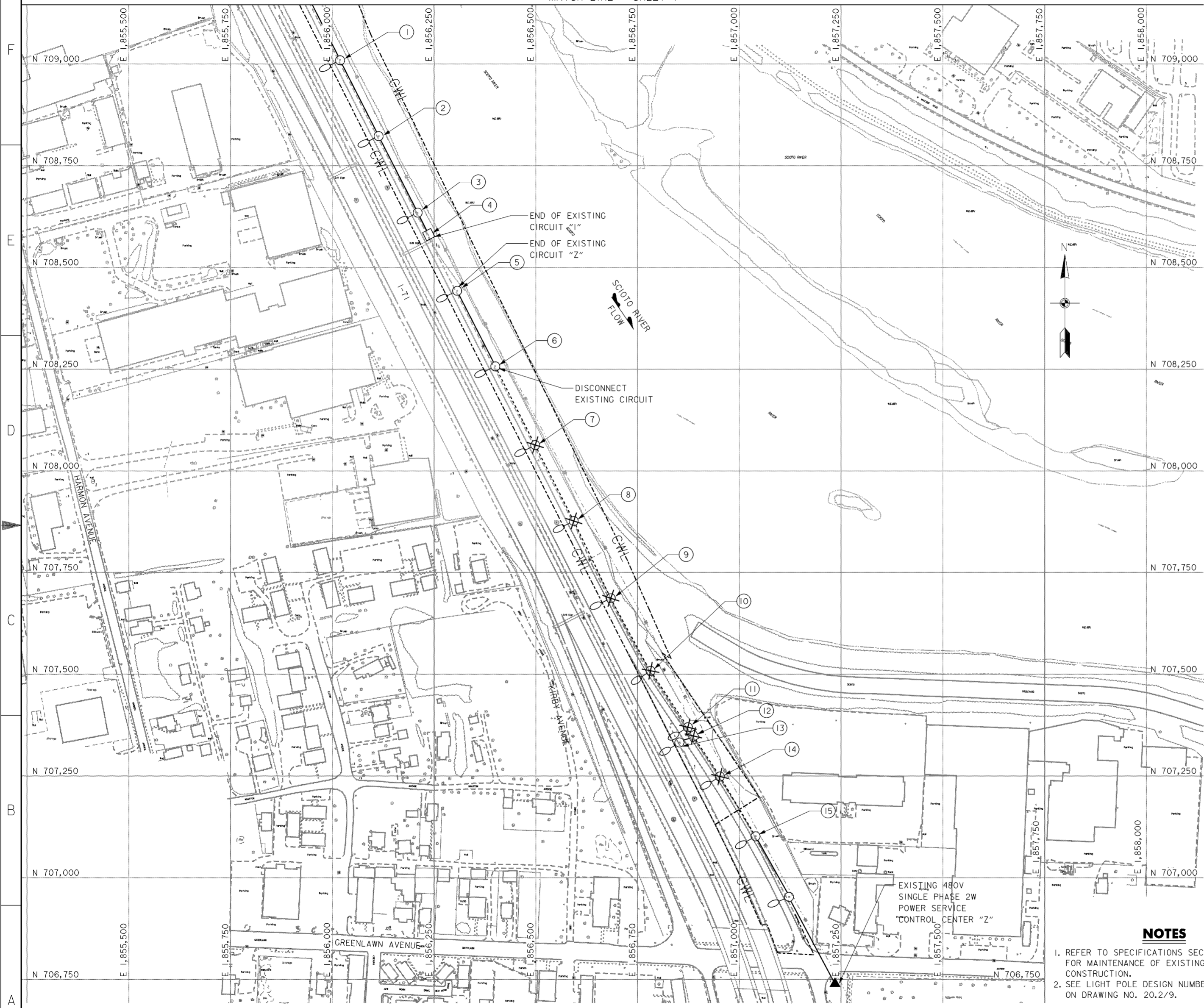
Revisions			
Symbol	Descriptions	Date	Approved
REV. IN ACCORDANCE WITH AMENDMENT MC001 2/28/00 P.O.C.			
BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J.AYRES		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by: T.MULLINS		ROADWAY LIGHTING REMOVAL (1 OF 2)	
Checked by: D.SCHAMP		Reviewed by:	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999	Sheet reference number: 20.2/5	FILENAME: 00uSep01.dgn
Approved by:	Drawing Code: 16-PWC-12-	Sheet 1 of 2	



MATCH LINE - SHEET 2



MATCH LINE - SHEET 1



EXISTING LIGHT POLE LOCATION AND DESCRIPTION SCHEDULE

- ① STA. 240+70 310-III-AT15B41.7 I14
- ② STA. 242+79 310-III-AT15B41.7 I15
- ③ STA. 244+90 310-III-AT15B41.7 I16
- ④ STA. 245+51 PULL BOX FOR EXISTING TRUSS SIGN.
- ⑤ STA. 247+05 310-III-AT15B41.7 Z10
- ⑥ STA. 249+13 310-III-AT15B41.7 Z9. REMOVE EXISTING LINE SIDE CABLE AND CONNECTOR KITS. CLEAN CONDUIT AND PLUG TEMPORARILY UNTIL NEW CONDUCTORS ARE PULLED IN.
- ⑦ STA. 251+30 310-III-AT15B41.7 Z8
- ⑧ STA. 253+39 310-III-AT15B41.7 Z7
- ⑨ STA. 255+50 310-III-AT15B41.7 Z6
- ⑩ STA. 257+53 310-III-AT15B41.7 Z5
- ⑪ STA. 259+20 310-III-AT15B41.7 Z4
- ⑫ STA. 259+40 PULL BOX. REMOVE SPLICE KITS AND CONDUCTORS TO ITEM 13.
- ⑬ STA. 259+40 310-III-AT15B41.7 Z3. REMOVE EXISTING LINE SIDE CABLE AND CONNECTOR KITS. CLEAN CONDUIT AND PLUG TEMPORARILY UNTIL CONDUIT IS EXTENDED TO NEW PULLBOX.
- ⑭ STA. 260+45 250-II-AT10B34.2
- ⑮ 250-II-AT10B34.2. REMOVE EXISTING LOAD SIDE CABLE AND CONNECTOR KITS. CLEAN CONDUIT AND PLUG TEMPORARILY UNTIL NEW CONDUCTORS ARE PULLED IN.

LEGEND

- EXISTING LIGHT POLE AND FOUNDATION TO REMAIN
- EXISTING LIGHT POLE AND FOUNDATION TO BE REMOVED
- EXISTING UNDERGROUND LIGHTING CIRCUIT TO REMAIN IN USE
- EXISTING UNDERGROUND LIGHTING CIRCUIT TO BE ABANDONED
- CONTRACTOR WORK LIMITS
- EXISTING PULL BOX TO REMAIN
- EXISTING PULL BOX TO BE REMOVED

NOTES

1. REFER TO SPECIFICATIONS SECTION 16528.3.16 FOR MAINTENANCE OF EXISTING LIGHTING DURING CONSTRUCTION.
2. SEE LIGHT POLE DESIGN NUMBER DESIGNATIONS ON DRAWING NO. 20.2/9.

PLAN

SCALE: 1" = 100'

Revisions			
Symbol	Descriptions	Date	Approved





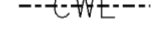

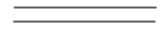


BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		ROADWAY LIGHTING REMOVAL (2 OF 2)	
Designed by: J.AYRES		Scale: AS SHOWN	FILENAME: 00uSep02.dgn
Drawn by: T.MULLINS	Checked by: D.SCHAMP	Date: OCTOBER 1999	Sheet reference number: 20.2/6
Reviewed by: Approved by:	Drawing Code: 16-PWC-12-	Sheet 2 of 2	Sheet 2 of 2

WORK AS CONSTRUCTED

PROPOSED LIGHT POLE LOCATION AND DESCRIPTION SCHEDULE

- ① STA. 226+96 2.0'L EXISTING LIGHT POLE. PROVIDE (1) TYPE II AND (1) TYPE III CONNECTOR KITS AND RECONNECT EXISTING CIRCUIT CONDUCTORS AND POLE AND BRACKET CABLE TO NEW CONNECTOR KITS.
- ② STA. 227+38 2.0'L 18" SQUARE CONCRETE PULL BOX. RECONNECT TO EXISTING 3" RGC UNDER RAMP AND PULL IN NEW 2-#4 AWG 5000 VOLT CABLES TO EXISTING PULL BOX. PROVIDE (2) SPLICE KITS. SEE NOTE 2 BELOW.
- ③ STA. 228+90 2.0'L 250-II-AT12B34.2 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT 19.
- ④ STA. 230+92 2.0'L 250-II-AT12B34.2 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT 110.
- ⑤ STA. 232+85 2.0'L 250-II-AT12B34.2 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT 111.
- ⑥ STA. 234+60 2.0'L 310-II-AT12B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT 112.
- ⑦ STA. 235+51 2.0'L EXISTING CONCRETE PULL BOX. PROVIDE (2) SPLICE KITS AND RECONNECT EXISTING SIGN SERVICE AND ROADWAY LIGHTING CIRCUIT TO THE SOUTH.

LEGEND

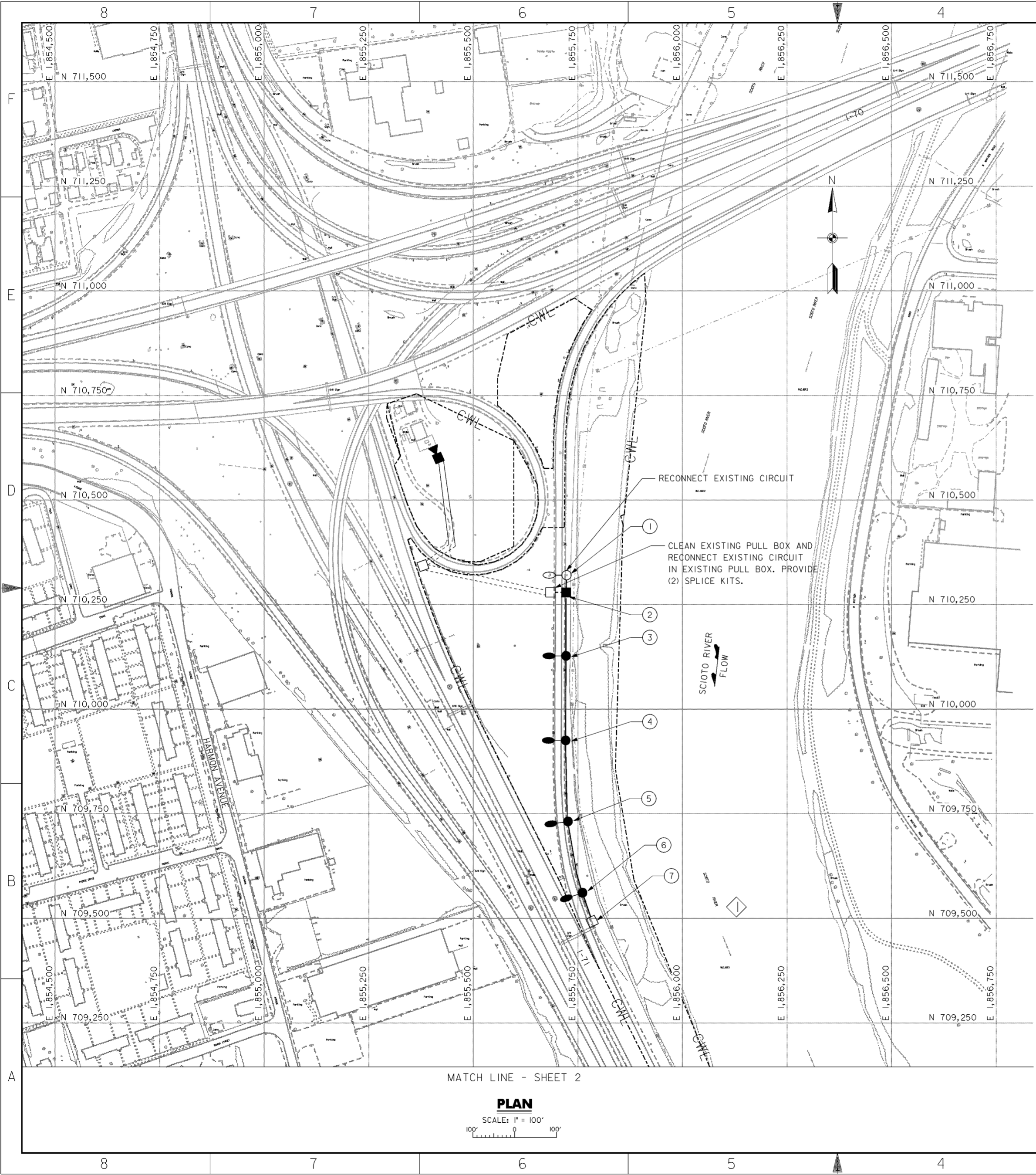
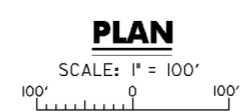
-  EXISTING LIGHT POLE AND FOUNDATION TO BE RECONNECTED
-  PROPOSED LIGHT POLE AND FOUNDATION. SEE DETAILS ON DRAWING NOS. 20.2/9 THRU 20.2/12
-  PROPOSED 18" SQUARE CONCRETE PULL BOX WITH CAST IRON COVER. SEE DETAIL ON DRAWING NO. 20.2/13
-  1/2" DUCT-CABLE WITH TWO NO.4 AWG 5000 VOLT CABLES IN 24" DEEP TRENCH. SEE DETAIL ON DRAWING NO. 20.2/12
-  CONTRACTOR WORK LIMITS
-  EXISTING PULL BOX
-  PROPOSED 3" RIGID CONDUIT
-  EXISTING CONDUIT
-  PROPOSED CONTROL CENTER AND 18" SQUARE CONCRETE PULLBOX

NOTES

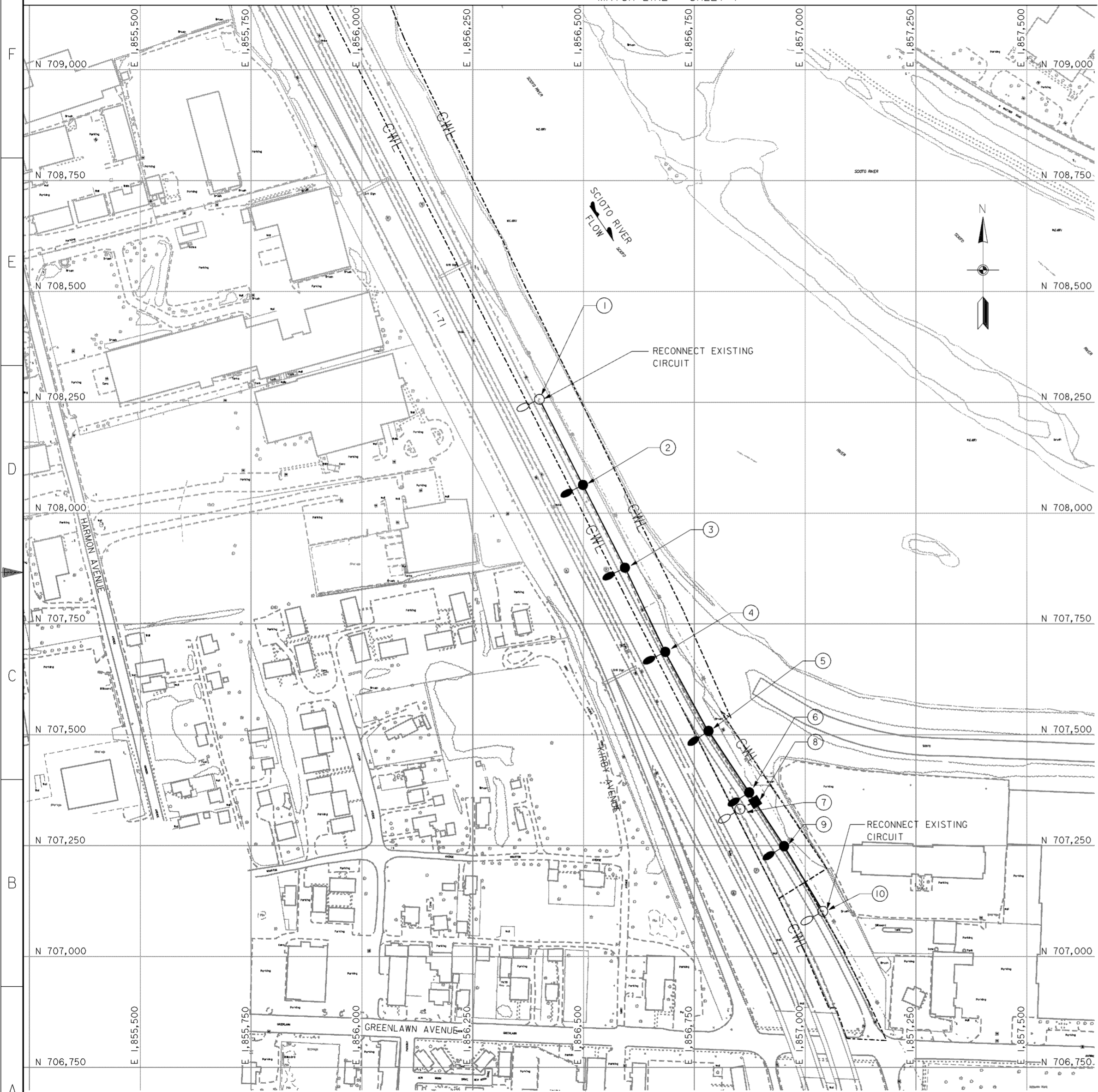
1. SEE LIGHT POLE DESIGN NUMBER DESIGNATIONS ON DRAWING NO. 20.2/9.
2. IN THE EVENT THAT THE EXISTING CONDUIT UNDER THE RAMP IS NOT SUITABLE FOR RE-USE, PROVIDE 3" RGC JACKED OR DRILLED UNDER PAVEMENT PER DETAIL ON DRAWING NO. 20.2/13.

Revisions			
Symbol	Descriptions	Date	Approved
REV. IN ACCORDANCE WITH AMENDMENT MC001 2/28/00 P.O.C.			
BURGESS & NIPLÉ, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J. AYRES	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
Drawn by: T. MULLINS	ROADWAY LIGHTING REPLACEMENT (1 OF 2)		
Checked by: D. SCHAMP	Reviewed by: AS SHOWN Date: OCTOBER 1999	Sheet reference number: 20.27	FILENAME: PIN TABLE: 00Sep03.dgn
Approved by:	Drawing Code: 16-PWC-12-	Sheet 1 of 2	Sheet 1 of 2

MATCH LINE - SHEET 2



MATCH LINE - SHEET 1



PROPOSED LIGHT POLE LOCATION AND DESCRIPTION SCHEDULE

- ① STA. 249+18 0.9'L EXISTING LIGHT POLE. PROVIDE (1) TYPE II AND (1) TYPE III CONNECTOR KITS AND RECONNECT EXISTING CIRCUIT CONDUCTORS AND POLE AND BRACKET CABLE TO NEW CONNECTOR KITS.
- ② STA. 251+40 2.57'L 310-III-AT18B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT Z8.
- ③ STA. 253+99 0.11'L 310-III-AT18B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT Z7.
- ④ STA. 255+51 2.38'L 310-III-AT18B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT Z6.
- ⑤ STA. 257+54 2.53'L 310-III-AT20B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT Z5.
- ⑥ STA. 259+20 2.37'L 250-II-AT12B34.2 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT Z4.
- ⑦ STA. 259+40 EXISTING LIGHT POLE. PROVIDE (1) TYPE II AND (1) TYPE III CONNECTOR KITS AND RECONNECT EXISTING POLE AND BRACKET CABLE TO NEW CONNECTOR KITS.
- ⑧ STA. 259+40 2.0'L 18" SQUARE CONCRETE PULL BOX. RECONNECT TO EXISTING 3" RGC UNDER RAMP AND PULL IN NEW 2-*4 AWG 5000 VOLT CABLES TO LIGHT POLE ITEM 7. PROVIDE (2) SPLICE KITS. SEE NOTE 2 BELOW.
- ⑨ STA. 260+47 2.05'L 250-II-AT12B34.2 WITH TYPE II AND TYPE III CONNECTOR KITS CIRCUIT Z3.
- ⑩ EXISTING LIGHT POLE. PROVIDE (1) TYPE II AND (1) TYPE III CONNECTOR KITS AND RECONNECT EXISTING CIRCUIT CONDUCTORS AND POLE AND BRACKET CABLE TO NEW CONNECTOR KITS.

LEGEND

- ○ EXISTING LIGHT POLE AND FOUNDATION
- ● PROPOSED LIGHT POLE AND FOUNDATION. SEE DETAILS ON DRAWING NOS. 20.2/9 THRU 20.2/12
- PROPOSED 18" SQUARE CONCRETE PULL BOX WITH CAST IRON COVER. SEE DETAIL ON DRAWING NO. 20.2/13
- 1/2" DUCT-CABLE WITH TWO NO.4 AWG 5000 VOLT CABLES IN 24" DEEP TRENCH. SEE DETAIL ON DRAWING NO. 20.2/12
- CWL--- CONTRACTOR WORK LIMITS
- EXISTING PULL BOX

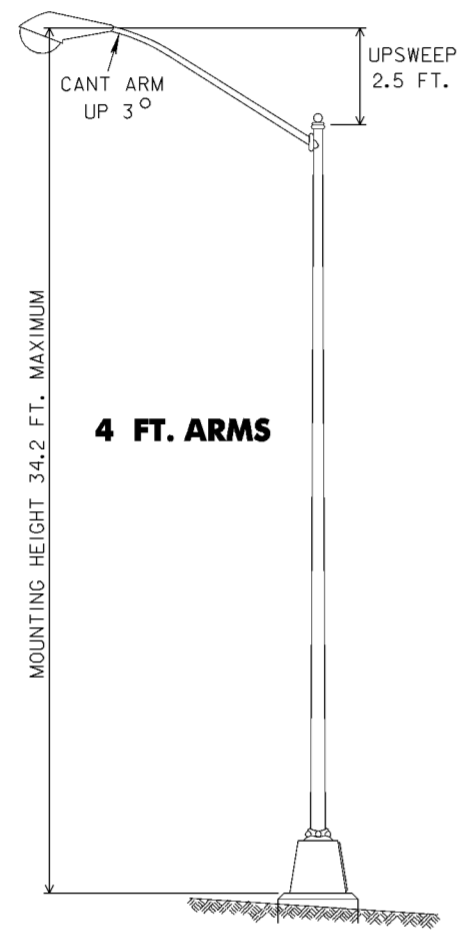
NOTES

1. SEE LIGHT POLE DESIGN NUMBER DESIGNATIONS ON DRAWING NO. 20.2/9.
2. IN THE EVENT THAT THE EXISTING CONDUIT UNDER THE RAMP IS NOT SUITABLE FOR RE-USE, PROVIDE 3" RGC JACKED OR DRILLED UNDER PAVEMENT PER DETAIL ON DRAWING NO. 20.2/13.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED - PHASE IIIA SOUTH	4/01	P.O.C.
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	J.AYRES	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by:	T.MULLINS	ROADWAY LIGHTING REPLACEMENT(2 OF 2)	
Checked by:	D.SCHAMP	Scale:	AS SHOWN
Reviewed by:		Date:	OCTOBER 1999
Approved by:		Sheet reference number:	20.2/8
		Drawing Code:	16-PWC-12-
		FILENAME:	o05ep04.dgn
		PIN TABLE:	
		Sheet	2 of 2

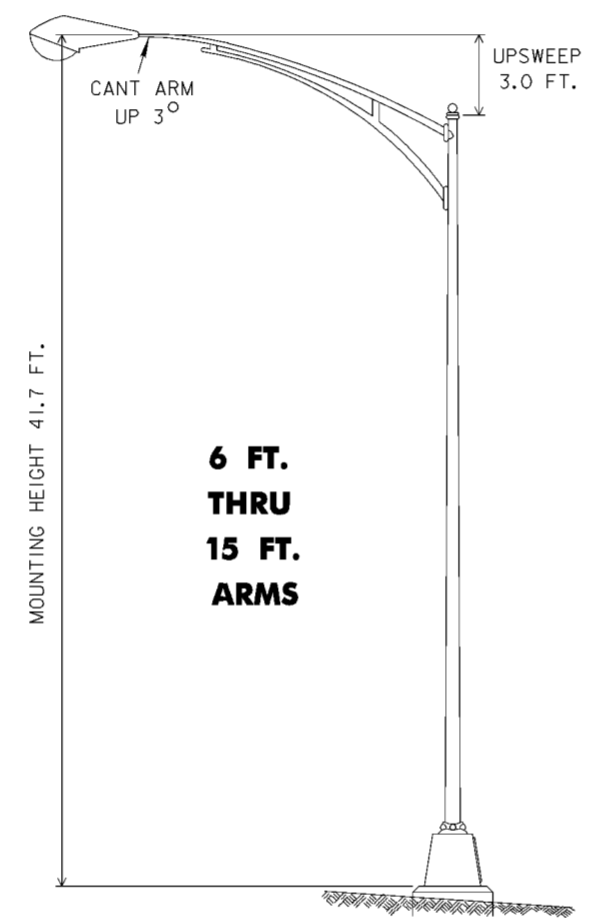
PLAN

SCALE: 1" = 100'



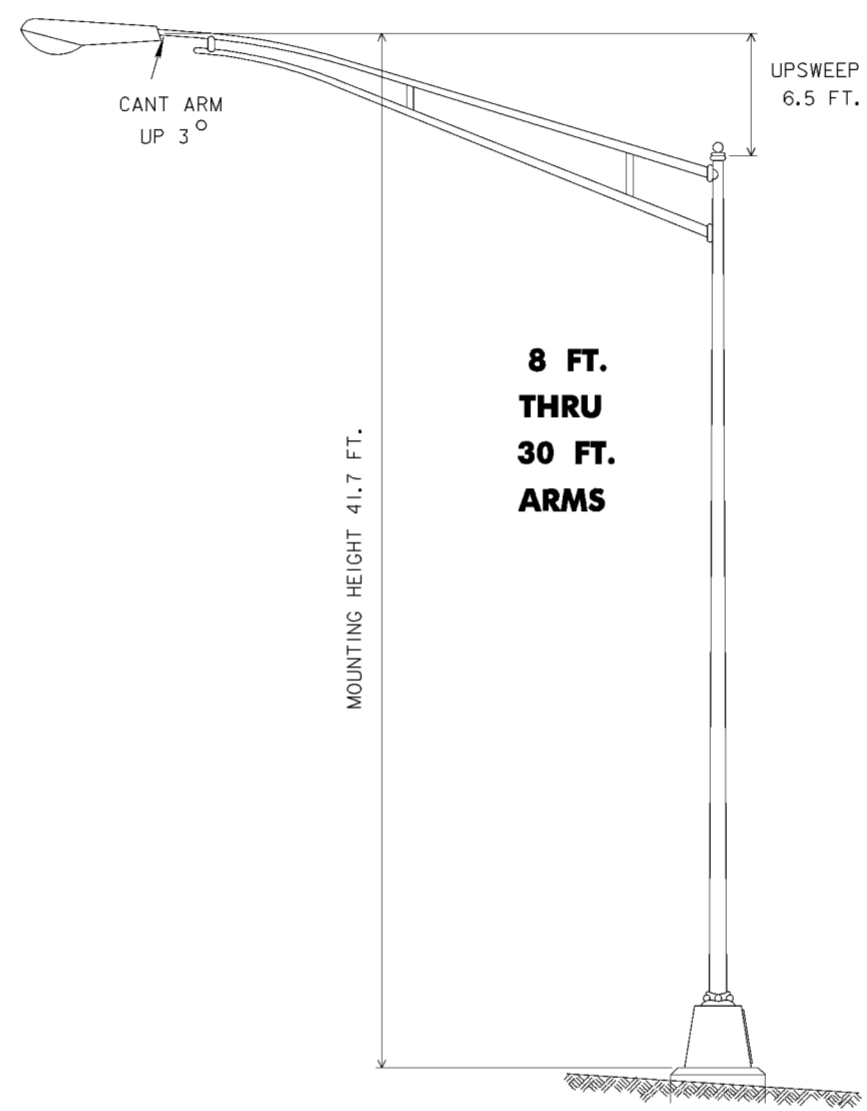
4 FT. ARMS

STYLE I



6 FT. THRU 15 FT. ARMS

STYLE II

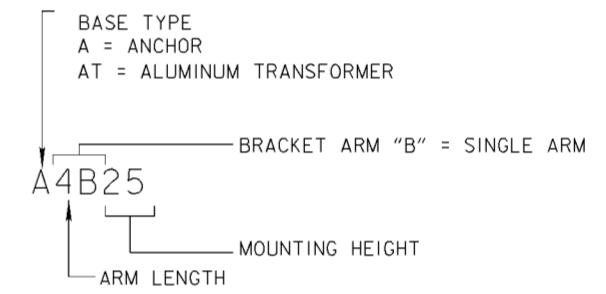


8 FT. THRU 30 FT. ARMS

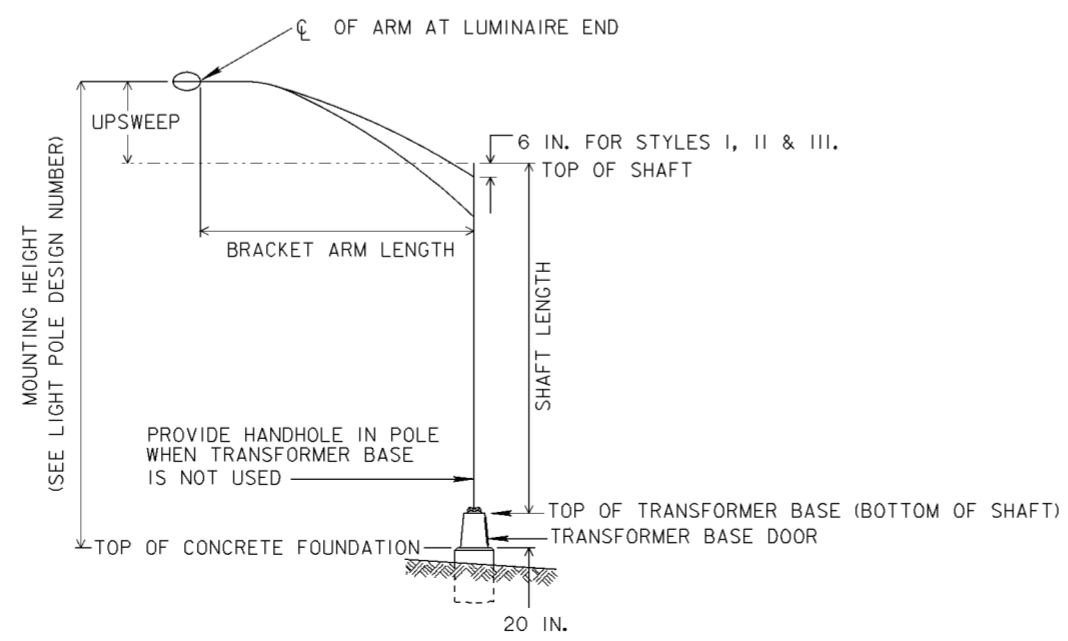
STYLE III

LIGHT POLE DESIGN NUMBER

SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER'S REPRESENTATIVE, MODIFICATION OF THE RATIO OF BRACKET UPSWEEP TO ARM LENGTH IS PERMISSIBLE, PROVIDED THE BASIC POLE PROPORTIONS ARE MAINTAINED AS SHOWN.




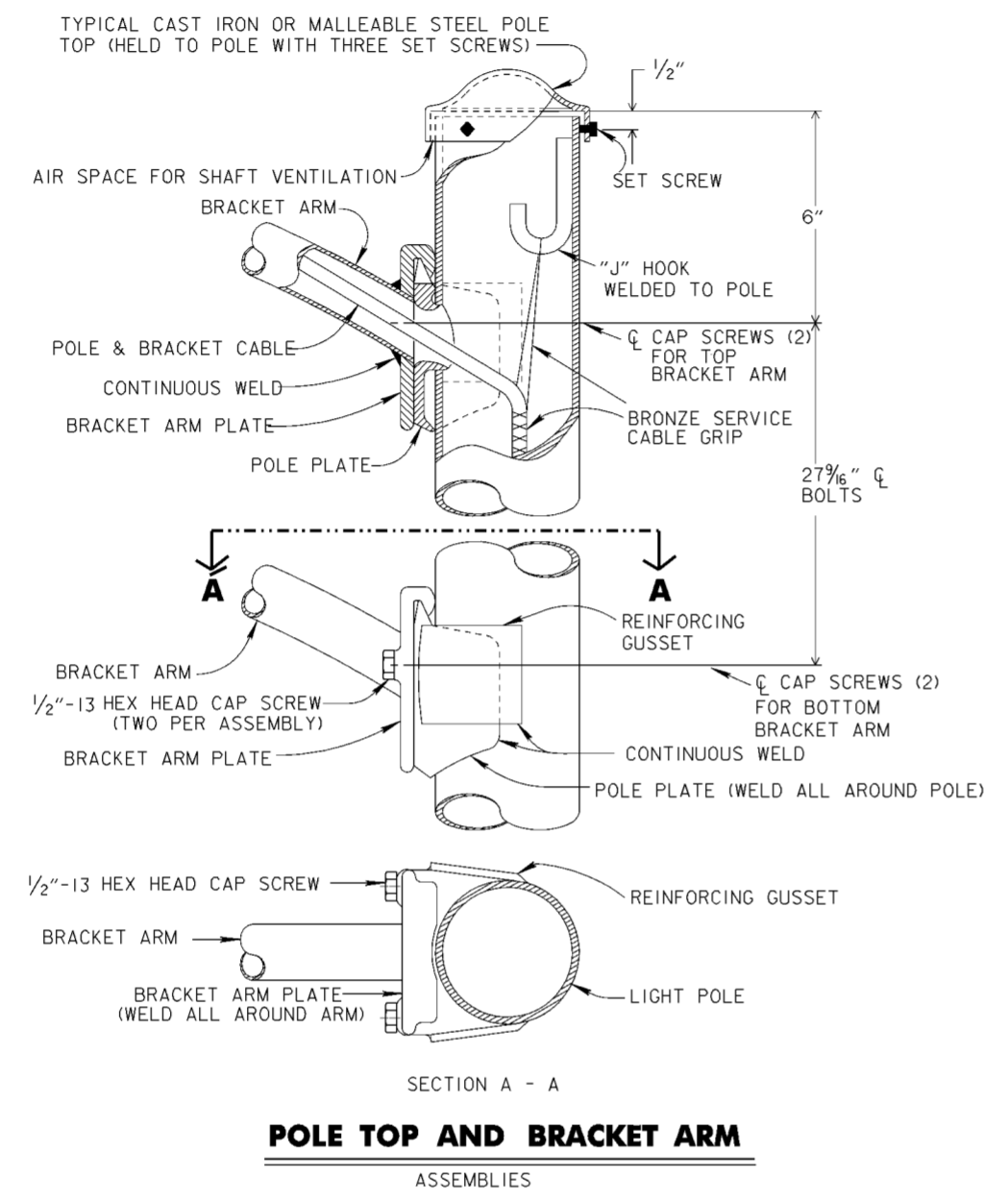
MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM TOP OF FOUNDATION TO THE CENTER OF THE BRACKET ARM AT THE LUMINAIRE END.



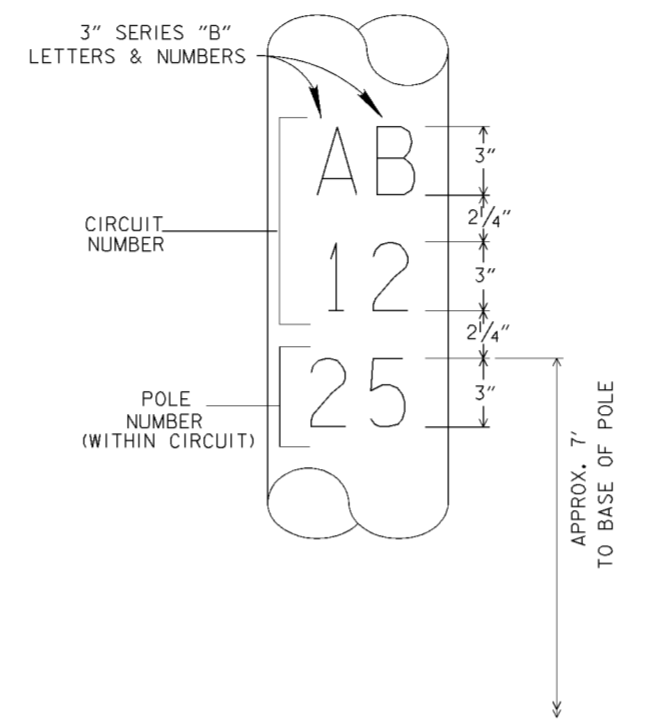
POLE COMPONENTS

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: ODOT/J.AYRES		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
Drawn by: T.FAHERTY		ROADWAY LIGHTING DETAILS (1 OF 6)	
Checked by: D.SCHAMP			
Reviewed by:	Scale: NONE	Sheet reference number: 20.29	FILENAME: PIN TABLE: 00usd101.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 1 of 6



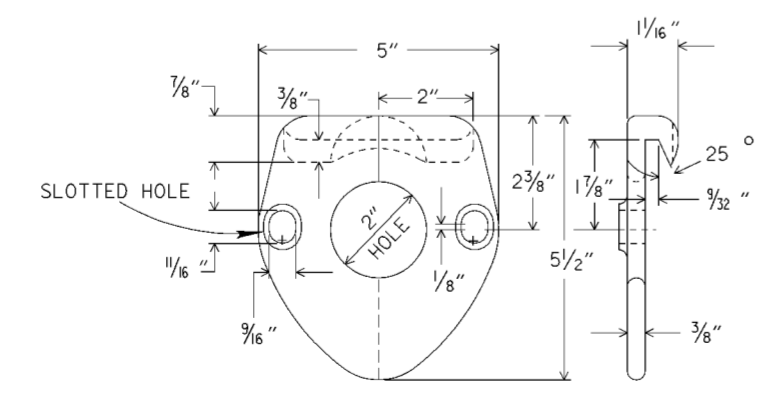
POLE TOP AND BRACKET ARM ASSEMBLIES



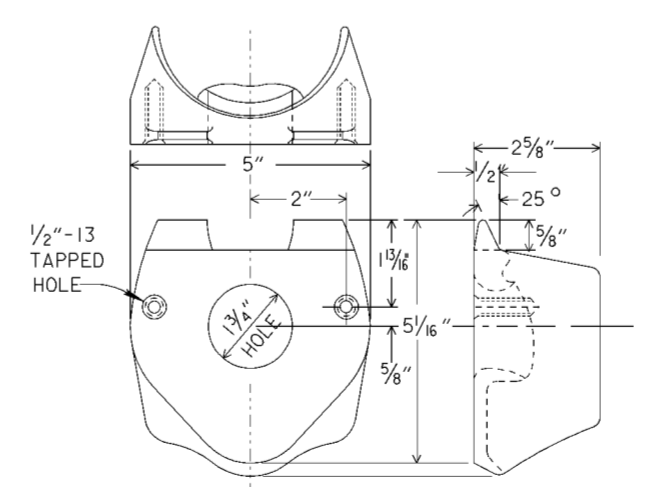
LIGHT POLE LABELS FOR CIRCUIT IDENTIFICATION
 (SEE NOTE 3)

NOTES

- HANDHOLES SHALL BE OPPOSITE SIDE FROM THE ROADWAY UNLESS SUCH LOCATION RENDERS THEM INACCESSIBLE.
- USE OF REINFORCING GUSSETS IS OPTIONAL.
- CIRCUIT AND LIGHT POLE NUMBERS SHALL BE AS SCHEDULED ON LIGHT PLAN SHEETS. LABELS SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS SECTION 16528, 2.16, AND SHALL CONTAIN 3" SERIES "B" LETTERS AND NUMBERS AS PER THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- CIRCUIT IDENTIFICATION DETAILS ARE APPLICABLE TO ALL POLE DESIGNS.
- SEE DRAWING 20.2/14 FOR DETAILS OF TERMINATION FOR GROUND CABLE.
- ALSO SEE SPECIFICATIONS SECTION 16528, 2.2, FOR BRACKET ARM AND 2.15 FOR POLE MATERIAL SPECIFICATIONS.



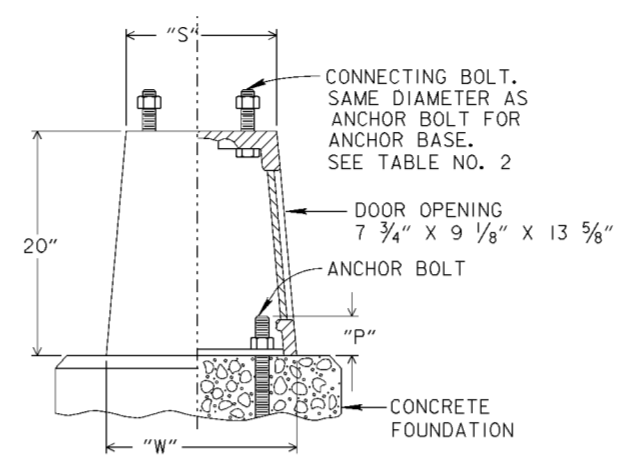
BRACKET ARM PLATE
 (CAST STEEL)



POLE PLATE
 CAST STEEL

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLÉ, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: ODOT/J.AYRES	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T.FAHERTY	ROADWAY LIGHTING DETAILS (2 OF 6)
Checked by: D.SCHAMP	FILENAME: 00usd102.dgn PEN TABLE:
Reviewed by:	Scale: NONE Date: OCTOBER 1999 Drawing Code: 16-PWC-12-
Approved by:	Sheet reference number: 20.2/10 Sheet 2 of 6



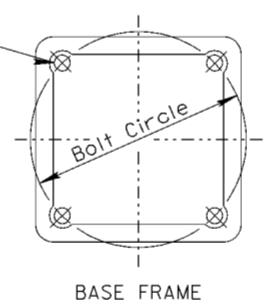
NOTES

1. FOR POLE GROUNDING DETAILS SEE DRAWING NO. 20.2/14.
2. TYPE AT-A BASE SHALL NORMALLY BE USED WITH ANCHOR BASE POLES HAVING DIAMETERS OF 6 INCHES THROUGH 9.2 INCHES INCLUSIVE, AND MOUNTING HEIGHTS THROUGH 41.7 FEET.
3. TYPE AT-C BASE MUST BE USED FOR ANCHOR BASE POLES HAVING DIAMETERS OF 9.5 INCHES AND 10 INCHES AND MOUNTING HEIGHTS THROUGH 51.7 FEET.
4. REFER TO SPECIFICATIONS SECTION 16528, 2.15.4, FOR TRANSFORMER TYPE BASES.

TABLE NO. 2 TRANSFORMER BASE ANCHOR BOLTS			
SHAFT SIZE	STEEL POLE GAUGE NO.		
6.5"	11 ↑ 1" ∅ X 40"	7 ↑ 1" ∅ X 40"	3 ↑ 1 1/4" ∅ X 40 3/4"
7"			
7.5"			
8"			
8.5"			
9"			
9.5"	1 1/4" ∅ X 48"	1"	1 1/4" ∅ X 48"
10"			

40" BOLTS INCLUDE 4" BEND
 48" AND 60" BOLTS INCLUDE 6" BEND

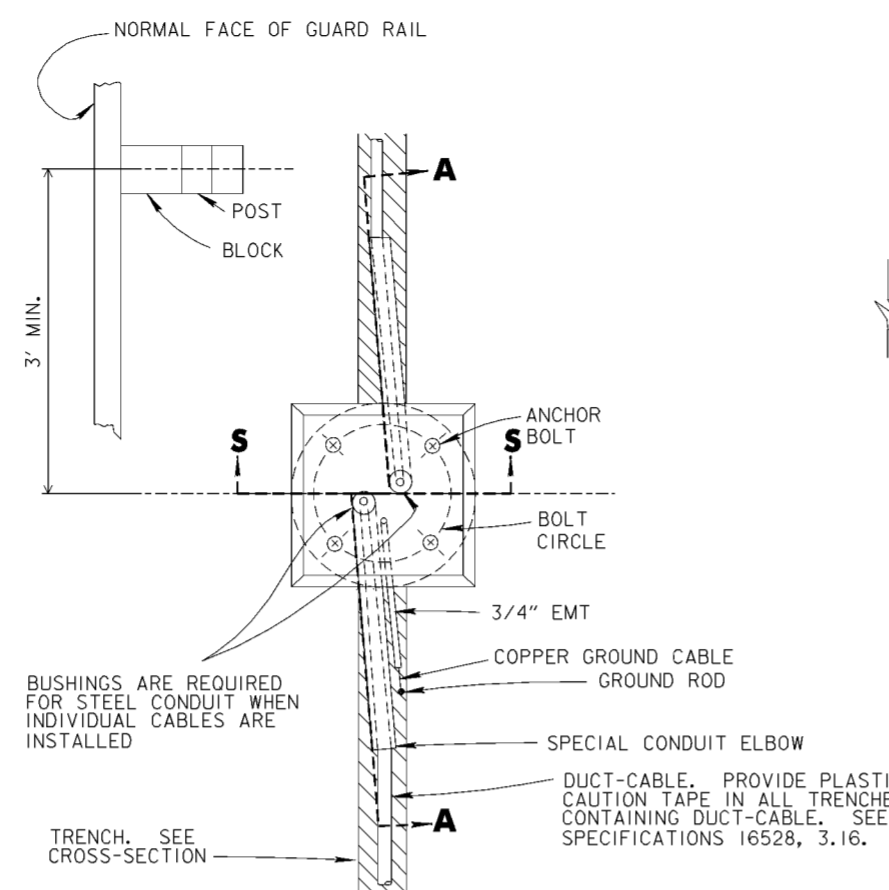
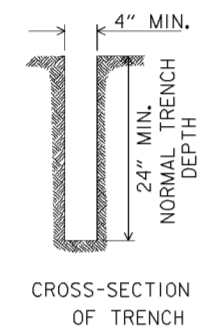
TABLE NO. 3 ALUMINUM TRANSFORMER BASES					
TYPE	"P"	"S"	"W"	BOLT CIRCLE	SHAFT SIZE
AT-A	4 1/2"	13"	16 3/8"	15"	SEE NOTE 2
AT-C	4 1/2"	14 5/8"	17 1/4"	17 1/4"	SEE NOTE 3



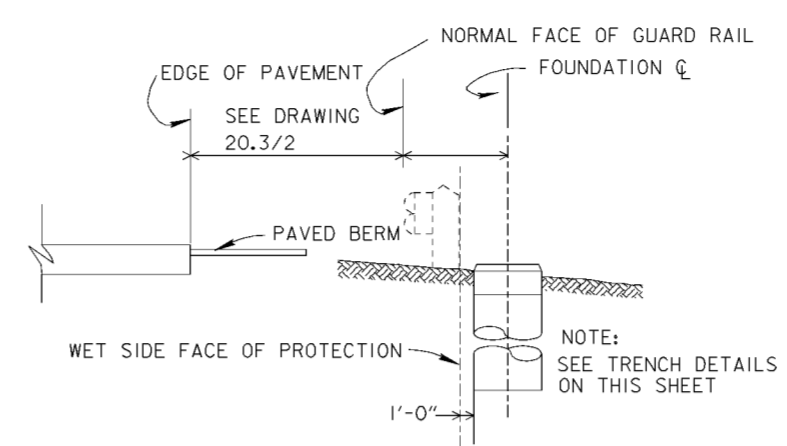
CAST ALUMINUM TRANSFORMER BASES

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: ODOT/J.AYRES	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
Drawn by: T.FAHERTY	ROADWAY LIGHTING DETAILS (3 OF 6)		
Checked by: D.SCHAMP			
Reviewed by:	Scale: NONE	Sheet reference number:	FILENAME: 00usd103.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	PIN TABLE: 20.2/11
		Sheet 3 of 6	



FOUNDATION PLAN NORMAL TRENCH ALIGNMENT

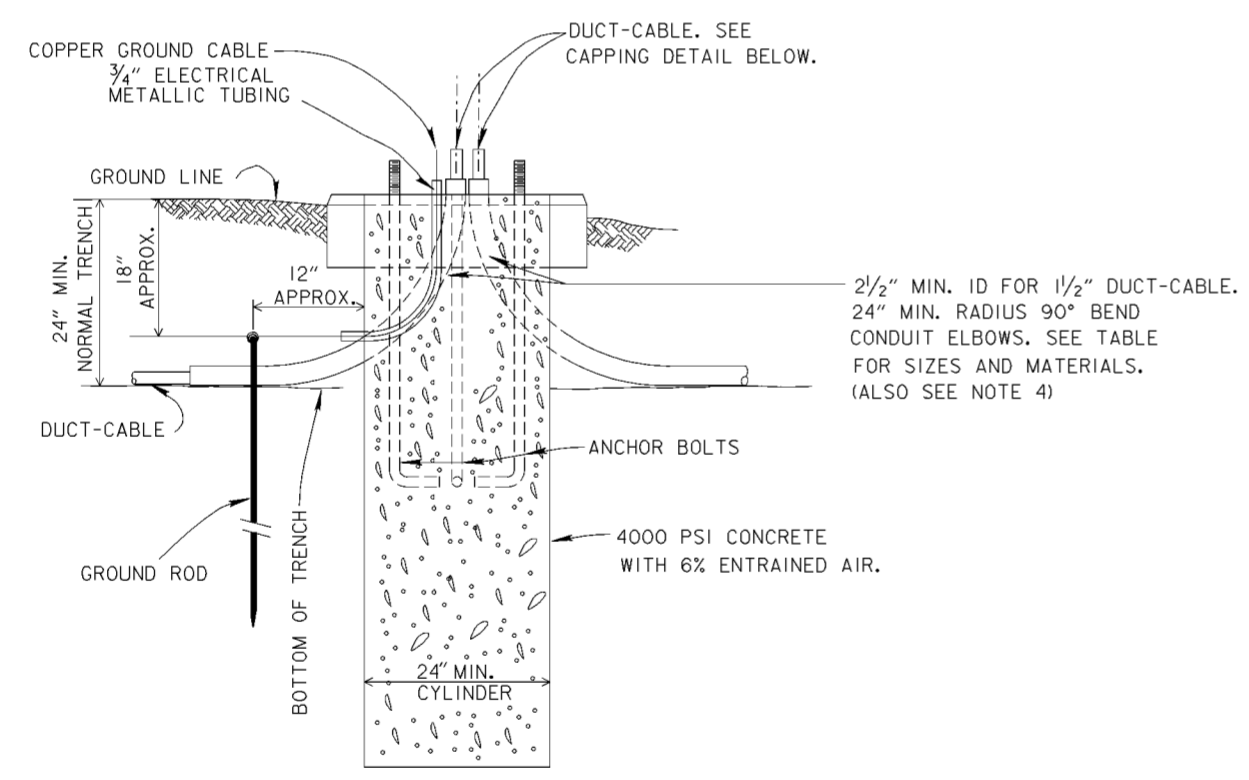


NORMAL LOCATION OF LIGHT POLE FOUNDATION

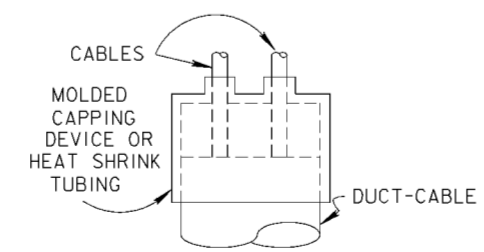
OPPOSITE HAND FOR POLES MOUNTED ON LEFT SIDE OF PAVEMENT

NOTES

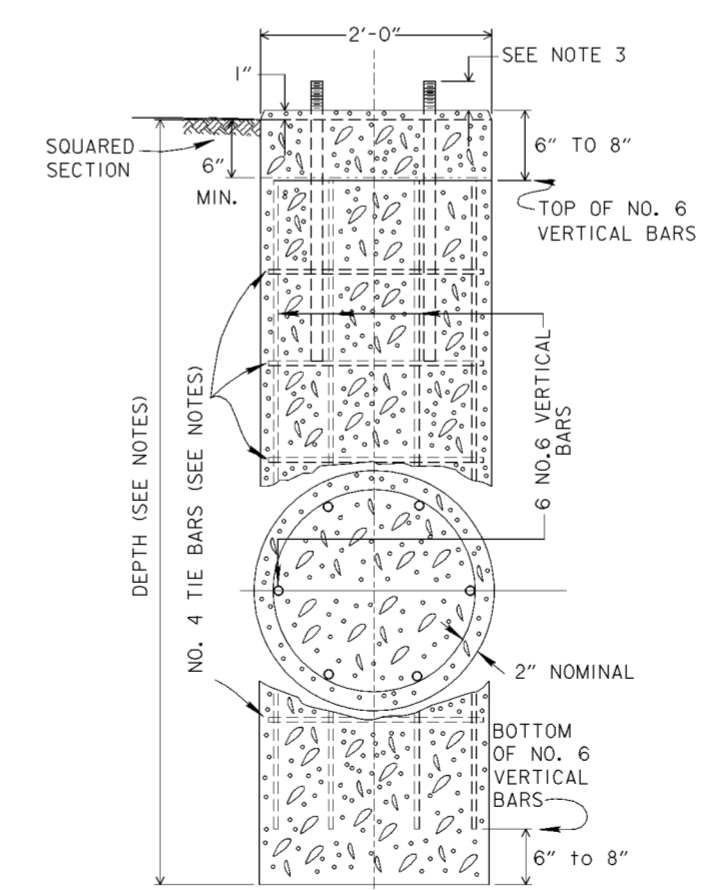
- FOUNDATION
MINIMUM DEPTHS TO BE AS FOLLOWS:
6 FEET FOR POLES HAVING A MOUNTING HEIGHT LESS THAN 40 FT.
8 FEET FOR POLES HAVING A MOUNTING HEIGHT 40 FT. THRU 44 FT.
NO. 4 TIE BARS REQUIRED AS FOLLOWS:
4 NO. 4 TIE BARS FOR 6 FT. DEPTH
5 NO. 4 TIE BARS FOR 8 FT. DEPTH
ROTATE BARS TO CLEAR CONDUITS.
- COPPER GROUND CABLE:
NO. 4 AWG, STRANDED INSULATED COPPER GROUND CABLE SHALL BE USED. EXOTHERMICALLY WELD CABLE TO GROUND ROD. RUN FREE END THROUGH 3/4" EMT AND CONNECT AS SHOWN ON DRAWING NO. 20.2/14.
USE TWO COATS OF INSULATING VARNISH OVER EXOTHERMIC WELD AND EXPOSED CONDUCTOR.
- ANCHOR BOLT DATA:
FOR ANCHOR BOLT DATA SEE DRAWING NO. 20.2/11, POLE BASE DETAILS.
- CONDUIT:
WHERE 2" OR 3" DIAMETER CONDUIT TERMINATES IN A FOUNDATION THE CONDUIT ELBOWS IN THE FOUNDATION SHALL BE THE SAME SIZE AS THE CONDUIT. THE ENDS OF THE CONDUIT ELBOWS CONTAINING DISTRIBUTION CABLE SHALL BE CLOSED AS DESCRIBED IN THE SPECIFICATIONS.
WHEN THE TERMINATING CONDUIT IS STEEL, THE CONDUIT ELBOWS IN THE POLE FOUNDATION SHALL ALSO BE STEEL.
- GROUND RODS:
WHEN A SECOND GROUND ROD IS REQUIRED IT SHALL BE INSTALLED IN THE CABLE TRENCH.
- REINFORCING STEEL:
REINFORCING STEEL MAY BE ASSEMBLED IN CAGES BY APPROVED WELDING OF BARS. SUBJECT TO APPROVAL OF THE CONTRACTING OFFICER'S REPRESENTATIVE, CAGES MAY BE ASSEMBLED IN A SPIRAL CONFORMATION.
- REFER TO SPECIFICATIONS SECTION 16528, 2.14, FOR GROUND RODS AND 3.5 FOR THEIR INSTALLATION AND TESTING.



SECTION A - A



CAPPING DETAIL



SECTION S - S REINFORCING STEEL

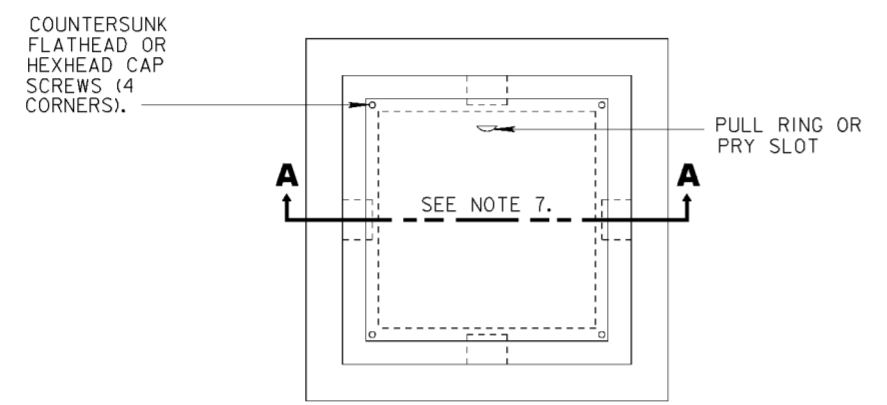
SPECIAL CONDUIT ELBOWS 90° BENDS					
2", 2 1/2" & 3" RGC		3" PVC			
R	S	Y	R	S	Y
24"	11"	35"	24"	8"	32"
30"	11"	41"			
36"	11"	47"	36"	2"	38"
42"	12"	54"			
48"	12"	60"			

Revisions			
Symbol	Descriptions	Date	Approved

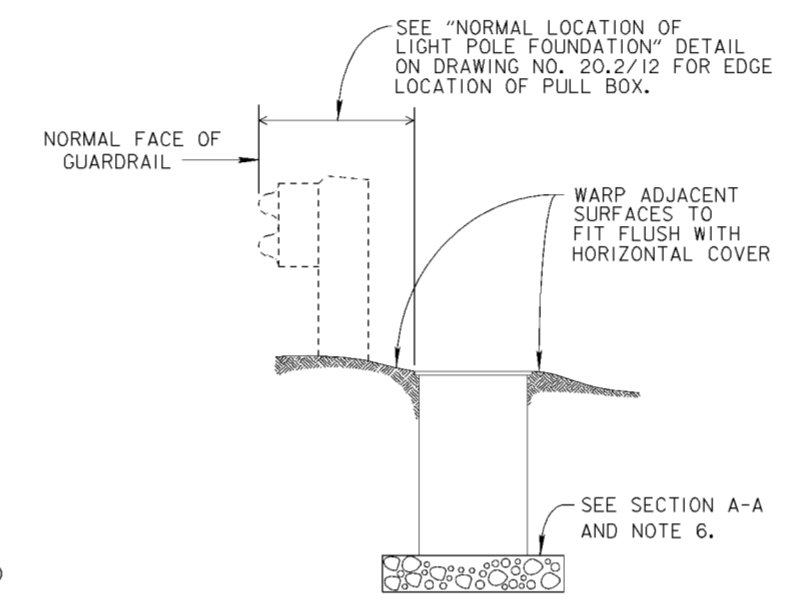
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: ODOT/J.AYRES	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T.FAHERTY	ROADWAY LIGHTING DETAILS (4 OF 6)
Checked by: D.SCHAMP	Scale: NONE Date: OCTOBER 1999 Drawing Code: 16-PWC-12-
Reviewed by:	Sheet reference number: 20.2/12 FILENAME: 00usd104.dgn PIN TABLE:
Approved by:	Sheet 4 of 6

NOTES

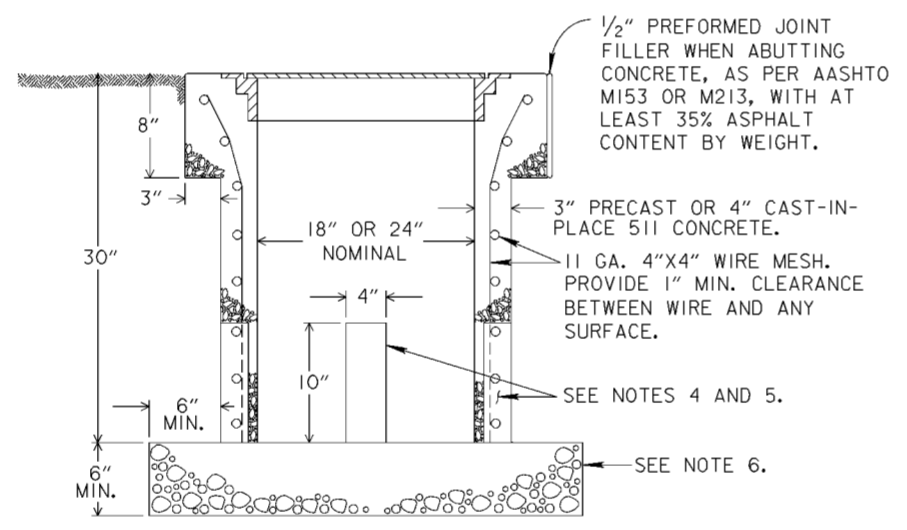
1. CONCRETE PULL BOXES SHALL HAVE FERROUS METAL COVERS AND MATCHING FRAMES BY NEENAH, JOSAM OR ZURN FOUNDRIES, OR APPROVED EQUAL. COVERS MAY BE 1/2" MINIMUM GALVANIZED PLATE STEEL OR CAST IRON WITH REINFORCING RIBS.
2. TAPERED THICKNESS CONCRETE PULL BOX WALLS MAY BE USED; HOWEVER, MINIMUM WALL THICKNESS SHALL BE AS INDICATED.
3. LIFTING RINGS OR WIRE PULLING RINGS MAY BE INCORPORATED INTO PRECAST CONCRETE PULL BOX WALLS.
4. CONDUIT ENTRIES FOR CAST-IN-PLACE CONCRETE PULL BOXES SHALL BE CAST AS REQUIRED. PRECAST PULL BOXES MAY HAVE BLOCKED OUT SECTIONS OF THE WALL AS KNOCKOUTS IN THE QUANTITY OF ONE PER WALL.
5. UNUSED OPENING AREAS SURROUNDING CONDUITS SHALL BE BLOCKED AFTER CONDUIT INSTALLATION.
6. AGGREGATE USED FOR PULL BOXES SHALL BE NO. 7 OR 8, AT LEAST 6" DEEP.
7. SEE SPECIFICATIONS FOR COVER MARKING REQUIREMENTS.
8. SITE CLEARING AND RESTORATION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS DIVISION 02.
9. WHEN UNDERMINING SHOULDER AREAS THAT DO NOT HAVE PAVED BERMS, PROVIDE 3/4" THICK STEEL SURFACE PLATES. CORRUGATED PIPE SLEEVES, SHORING OR OTHER APPROVED MEANS TO PREVENT CAVE-IN.
10. REFER TO SECTION 16528, 2.12, FOR CONCRETE PULL BOXES.
11. REFER TO SECTION 16528, 3.9, FOR ADDITIONAL REQUIREMENTS FOR CONDUIT JACKED OR DRILLED UNDER PAVEMENT.



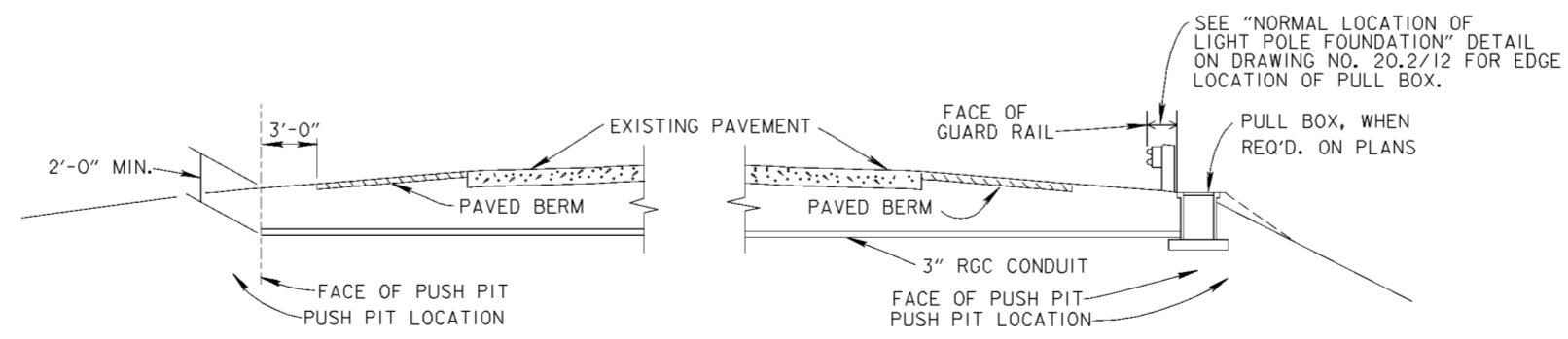
PLAN VIEW



NORMAL INSTALLATION



**SECTION A - A
 CONCRETE PULL BOX**



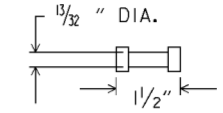
CONDUIT JACKED OR DRILLED UNDER PAVEMENT

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: ODOT/J.AYRES	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
		Drawn by: T.FAHERTY	
Checked by: D.SCHAMP	Reviewed by:	Scale: NONE	FILENAME: 00usd105.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	SHEET REFERENCE NUMBER: 20.2/13 PEN TABLE: Sheet 5 of 6

NOTES

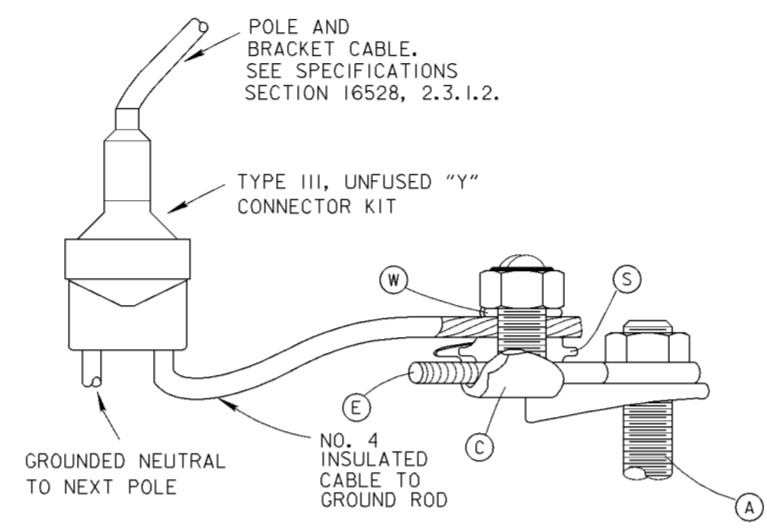
1. PROVIDE SUFFICIENT SLACK IN ALL CABLES TO PERMIT BRINGING KITS OUTSIDE OF POLE BASE THROUGH HANDHOLE OF ANCHOR BASE POLES OR DOOR IN TRANSFORMER BASE POLES.
2. FUSES FOR CONNECTOR KITS SHALL BE AS FOLLOWS:



ANY STANDARD MIDGET FERRULE TYPE FUSE, (EXCEPT CLASS TUBE) MAY BE USED IN THIS CONNECTION.

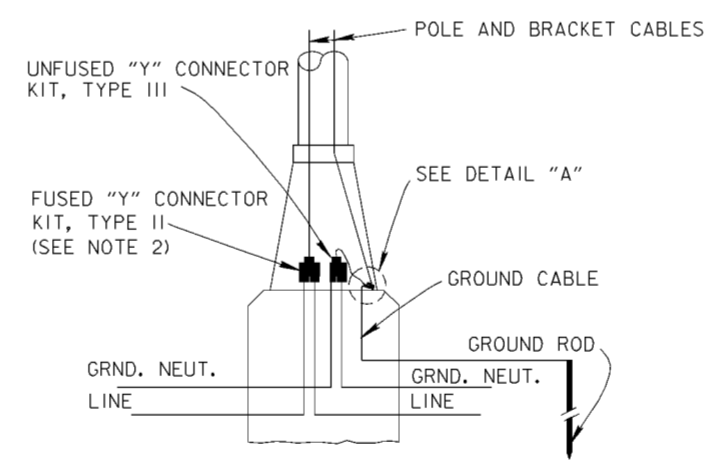
FUSES RATED 600 VOLTS AND 10 AMPERES, MINIMUM SHALL BE USED UNLESS OTHERWISE SPECIFIED.

3. REFER TO SPECIFICATIONS SECTION 16528, 2.4.2, FOR CABLE CONNECTOR KITS.



DETAIL "A"

2-WIRE, GROUNDED NEUTRAL TRANSFORMER BASE POLE



TRANSFORMER BASE POLE

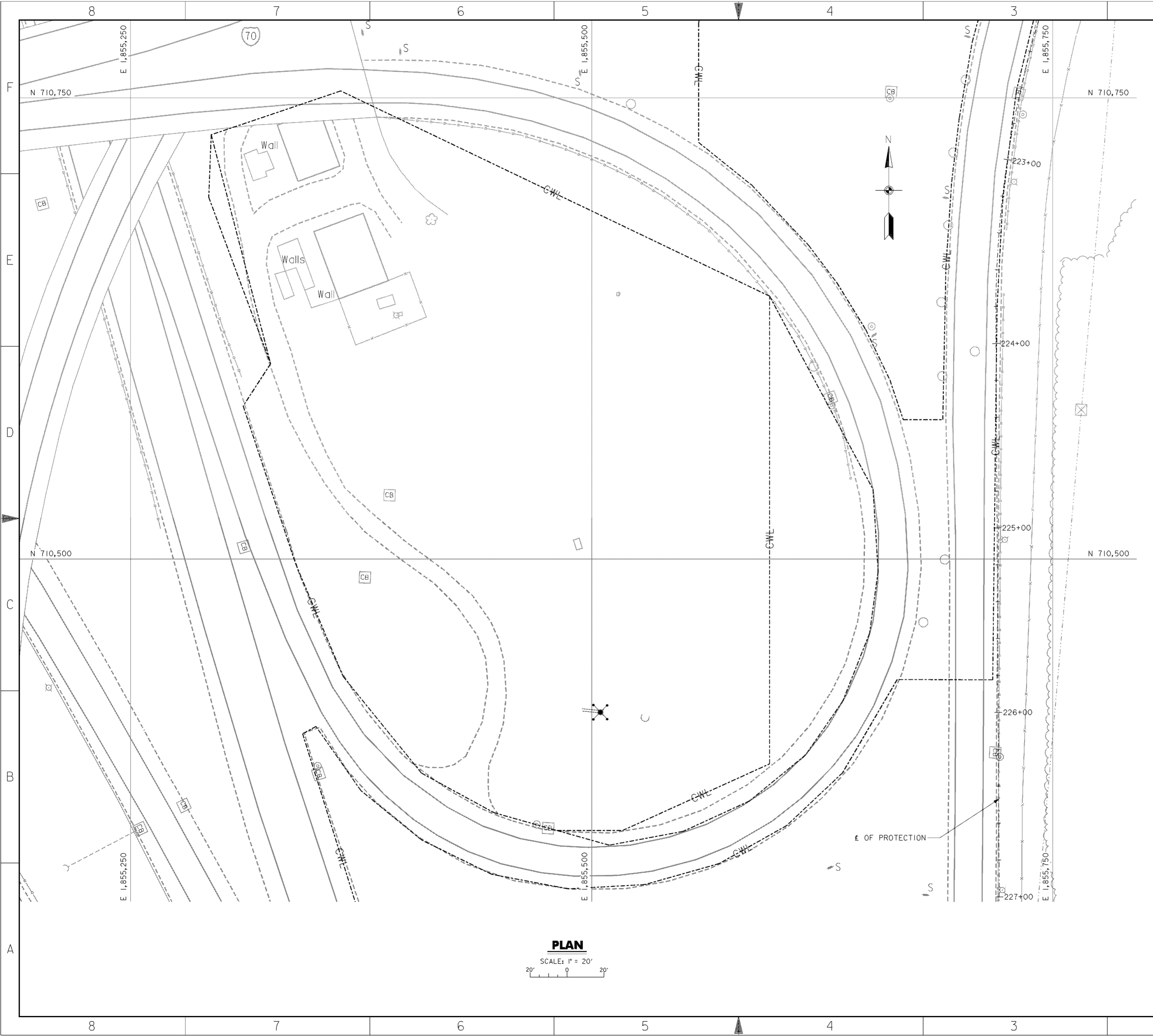
480 VOLT, TWO-WIRE, GROUNDED NEUTRAL

LEGEND OF ITEMS COMMON TO DETAIL "A"

- (A) ANCHOR BOLT
- (C) TIN PLATED COPPER SPLIT BOLT CONNECTOR WITH THE FOLLOWING COMPONENTS:
- (S) SPACER (TIN PLATED)
- (W) WASHER
- (E) GALV. STEEL EYEBOLT

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: ODO/J.AYRES	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
Drawn by: T.FAHERTY	ROADWAY LIGHTING DETAILS (6 OF 6)		
Checked by: D.SCHAMP			
Reviewed by:	Scale: NONE	Sheet reference number:	FILENAME: 00usd106.dgn
Approved by:	Date: OCTOBER 1999	Sheet reference number:	PIN TABLE:
	Drawing Code: 16-PWC-12-	20.2/14	Sheet 6 of 6



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

NOTES

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. REFER TO SPECIFICATIONS SECTION 16528.3.16 FOR MAINTENANCE OF EXISTING LIGHTING DURING CONSTRUCTION.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J.WOMACK		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA LIGHT TOWER RELOCATION	
Drawn by: T.FAHERTY			
Checked by: J.WOMACK		Scale: AS SHOWN	Sheet reference number: 20.2/15
Reviewed by: J.AYRES	Date: OCTOBER 1999	FILENAME: 00usrp01.dgn	PIN TABLE:
Approved by: E.TURNER	Drawing Code: 16-PWC-12-	Sheet 1 of 1	

WORK AS CONSTRUCTED

GENERAL

THIS PROJECT SHALL CONSIST OF DISCONNECTING AND ABANDONING THE CIRCUITS AT PULLBOX # 70 (PB70) FOR EXISTING LIGHT TOWER #5, AND THE PORTION OF THE CIRCUIT TO PB71 ON CIRCUIT C, FEEDING TOWER #2. CONTROL CENTER 3 WILL BE DISTURBED BY THE CONSTRUCTION, AND SHALL BE REPLACED WITH A NEW 480 VOLT, 2-WIRE, SINGLE PHASE SYSTEM MOUNTED ON A WOOD POLE, TOGETHER WITH THE RELOCATED WEATHER SENSOR UNIT, AND LOCATED NEAR THE EXISTING PUMP STATION AWAY FROM THE PROPOSED FILL. IN ADDITION, PB70 AND PB63 SHALL BE REMOVED.

A PORTION OF THE CIRCUIT AND CONDUIT FEEDING PB74 SHALL BE REPLACED WITH NEW 3-INCH RIGID CONDUIT ORIGINATING FROM THE NEW CONTROL CENTER. LIGHTING FOR TOWERS #5 AND #2 SHALL BE MAINTAINED BY INSTALLING A 1-1/2", TWO CONDUCTOR, NO. 4 AWG DUCT CABLE EACH IN 3-INCH RIGID CONDUIT. THE CIRCUIT SHALL ORIGINATE FROM THE NEW CONTROL CENTER, AND SHALL BE ADJUSTED FOR EACH STAGE OF THE FILL IN ORDER TO MAINTAIN EXISTING LIGHTING.

THE EXISTING FOUNDATION FOR TOWER #5 SHALL BE ABANDONED, AND A NEW FOUNDATION SHALL BE CONSTRUCTED IN A LOCATION AT LEAST 5 FEET TO THE EAST OF THE EXISTING FOUNDATION. DURING THE CONCRETE POUR, THE CONTRACTOR SHOULD HAVE THE FORM LEFT IN PLACE IN ORDER TO MAKE THE ELEVATION 1 FOOT ABOVE THE PROPOSED GROUND LINE. THE CONDUIT ELLS SHALL PROTRUDE AT THE STANDARD 24 INCHES BELOW THE PROPOSED GRADE, WITH A TEMPORARY CAP OVER THEM.

THE TOWER SHALL BE MOVED TO THE NEW FOUNDATION AFTER THE LUMINAIRE MOUNTING RING HAS BEEN LOWERED, AND THE LUMINAIRES HAVE BEEN INSPECTED AND CLEANED.

POWER SERVICE REMOVED, AS PER PLAN

THIS ITEM OF WORK INCLUDES THE REMOVAL OF THE LIGHTING CONTACTOR AND ENCLOSURE, AND ALL OTHER PORTIONS OF THE EXISTING POWER SERVICE NOT BEING REUSED. AN INVENTORY OF THE REMOVED ITEMS SHALL BE KEPT BY THE CONTRACTOR, FOR PURCHASE OF IDENTICAL HARDWARE FOR INSTALLATION OF THE NEW CONTROL CENTER. EXISTING UNDERGROUND CONDUIT AND WIRING MAY BE ABANDONED IN PLACE EXCEPT WHERE NEW WIRING IS TO BE PLACED IN EXISTING CONDUITS OR PULL BOXES. IN THIS LATTER CASE, THE OLD WIRES SHALL BE REMOVED. REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE. ALL DISTURBED AREAS SHALL BE RESTORED SO AS TO MATCH THE SURROUNDING AREA.

THIS ITEM SHALL ALSO COMPENSATE THE CONTRACTOR FOR COORDINATING WITH THE POWER COMPANY TO INSURE THAT THEY DISCONNECT AND REMOVE ANY OF THEIR ITEMS THAT ARE PART OF THE POWER SERVICE. IT ALSO INCLUDES RETURNING TO THE POWER COMPANY ANY ITEMS BELONGING TO THEM THAT WERE REMOVED BY THE CONTRACTOR.

CITY OF COLUMBUS WEATHER SENSOR UNIT RELOCATED, AS PER PLAN

THIS ITEM OF WORK INCLUDES THE REMOVAL AND STORAGE OF THE WEATHER SENSOR UNIT TOWER AND ALL OTHER PORTIONS OF THE EXISTING WEATHER SENSOR UNIT. EXISTING UNDERGROUND CONDUIT AND WIRING MAY BE ABANDONED IN PLACE EXCEPT WHERE NEW WIRING IS TO BE PLACED IN EXISTING CONDUITS. IN THIS LATTER CASE, THE OLD WIRES SHALL BE REMOVED. REMOVED WIRING AND COMMUNICATION MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE. ALL DISTURBED AREAS SHALL BE RESTORED SO AS TO MATCH THE SURROUNDING AREA.

THIS ITEM SHALL ALSO COMPENSATE THE CONTRACTOR FOR COORDINATING WITH THE CITY OF COLUMBUS AND POWER COMPANY TO INSURE THAT THEY DISCONNECT, REMOVE, AND STORE ANY OF THEIR ITEMS THAT ARE PART OF THE WEATHER SENSOR UNIT FOR RELOCATION.

POWER SERVICE

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

CITY OF COLUMBUS M.E.L.P.
DIVISION OF ELECTRICITY
910 DUBLIN ROAD
COLUMBUS, OHIO 43215
(614) 645-8371

ELECTRICAL SERVICE IS 480 VOLTS, SINGLE PHASE, 2-WIRE, GROUNDED NEUTRAL. THE CONTRACTOR SHALL INSURE THAT THE NEW CONTROL CENTER ITEMS, INCLUDING THE CABINET AND CONTACTOR, ARE IDENTICAL TO THE ORIGINAL EQUIPMENT. THIS ITEM OF WORK SHALL ALSO INCLUDE REINSTALLATION OF THE CITY OF COLUMBUS WEATHER SENSOR TOWER AND RELATED APPURTENANCES TO THE SATISFACTION OF THE CITY OF COLUMBUS.

AFTER ACCEPTANCE OF THE LIGHTING, THE POWER SERVICE ELECTRICAL ENERGY ACCOUNT SHALL BE TRANSFERRED TO THE MAINTAINING AGENCY NOTED IN THE PLANS.

PULLBOX REMOVED, AS PER PLAN

THIS ITEM OF WORK WILL CONSIST OF REMOVING AN EXISTING PULL BOX, WHICH WILL THEN BE PROPERLY DISPOSED OF. THE RESULTANT OPENING SHALL THEN BE BACKFILLED TO GRADE WITH SUITABLE COMPACTED SOIL AND RESTORED TO MATCH THE SURROUNDING AREA.

DISCONNECT EXISTING CIRCUIT, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE DISCONNECTION OF AN EXISTING LIGHT CIRCUIT AT A LIGHT TOWER, PULL BOXES, AND POWER SERVICE.

DISCONNECTION AT PULL BOXES PB71 AND PB74 SHALL INVOLVE THE REMOVAL OF THAT PART OF CABLE THAT IS TO BE REPLACED.

LIGHTING MISC.: CONNECT TO EXISTING CIRCUIT

THIS ITEM OF WORK SHALL CONSIST OF FEEDING DUCT CABLE INTO THE EMPTY CONDUIT BEND OF THE EXISTING CONDUIT, AT PULL BOXES PB71 AND PB74.

THE WORK SHALL INCLUDE EXCAVATING TO ACCESS THE STUBBED-OUT CONDUIT BEND, CLEANING AND REMOVING MUD AND DEBRIS FROM THE CONDUIT, FEEDING DUCT CABLE THROUGH CONDUIT.

LIGHT TOWER FOUNDATION REMOVED, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF REMOVING A LIGHT TOWER FOUNDATION. ANY PORTION OF THE EXISTING FOUNDATION, WHICH INTERFERES WITH THE PROPOSED CONSTRUCTION, SHALL BE REMOVED. IN ADDITION THE FOUNDATION SHALL BE REMOVED TO A MINIMUM OF ONE FOOT BELOW FINISHED GRADE. THE RESULTANT DEPRESSION SHALL BE BACKFILLED WITH COMPACTED SOIL AND THE DISTURBED AREA SHALL BE RESTORED TO NORMAL CONDITIONS TO THE SATISFACTION OF THE ENGINEER. IN ADDITION, WHERE A NEW FOUNDATION IS TO BE LOCATED WITHIN A TEN FOOT RADIUS OF A REMOVED FOUNDATION, THE RESULTANT OPENING LEFT BY A REMOVED LIGHT TOWER FOUNDATION SHALL BE BACKFILLED AND COMPACTED AS THOUGH IT WERE SUBGRADE FOR A ROADWAY.

LUMINAIRES REMOVED FOR STORAGE, AS PER PLAN

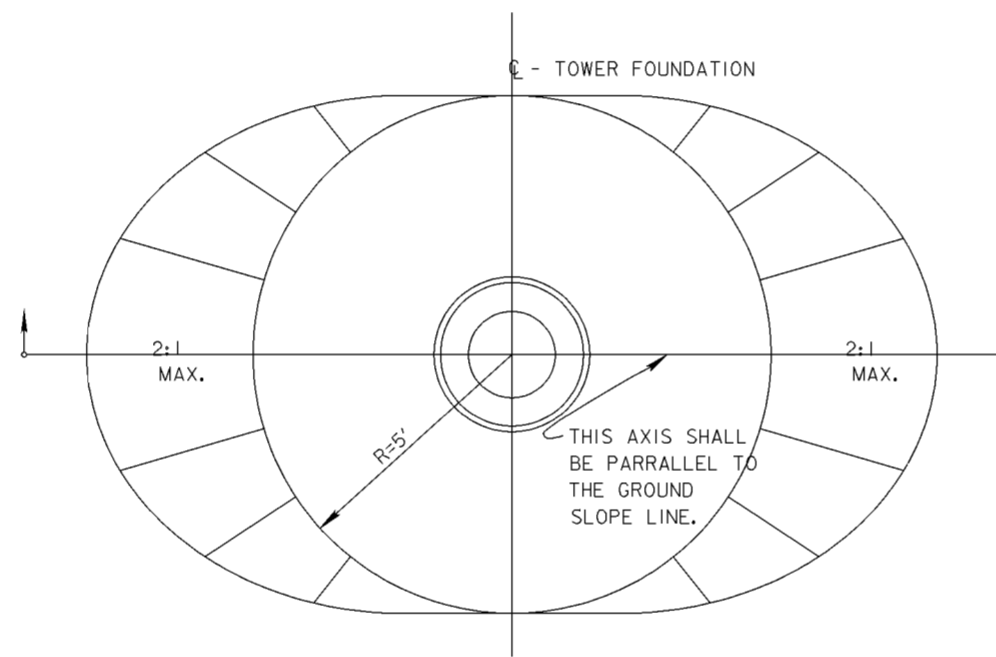
THIS ITEM OF WORK SHALL CONSIST OF REMOVING THE EXISTING LUMINAIRES AND STORING THEM FOR REERECTION.

REERECT EXISTING LUMINAIRES, AS PER PLAN

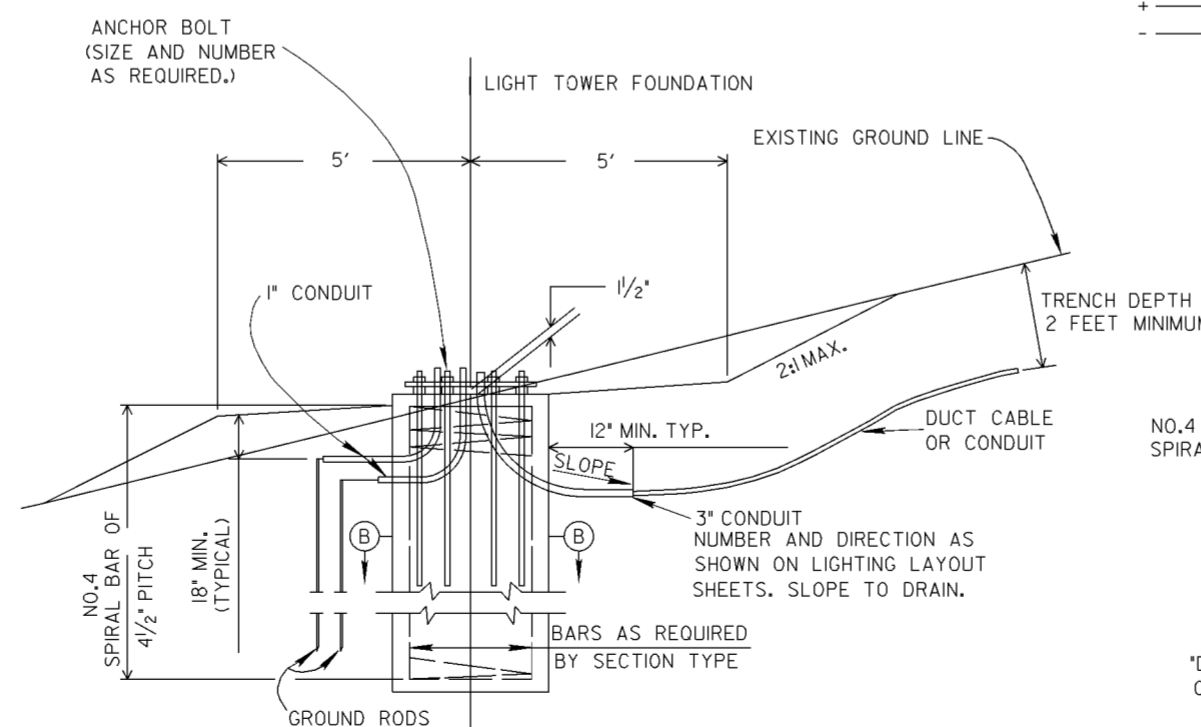
THIS ITEM OF WORK SHALL CONSIST OF CLEANING THE EXISTING LUMINAIRES REFLECTORS AND LENSES, REPLACING THE LAMPS, MAKING REPAIRS IF NECESSARY, VERIFYING THAT THE LUMINAIRES ARE IN OPERATING CONDITION, AND REERECTING THE LUMINAIRES ONTO THE RELOCATED TOWER.

REERECT EXISTING LIGHT TOWER, AS PER PLAN

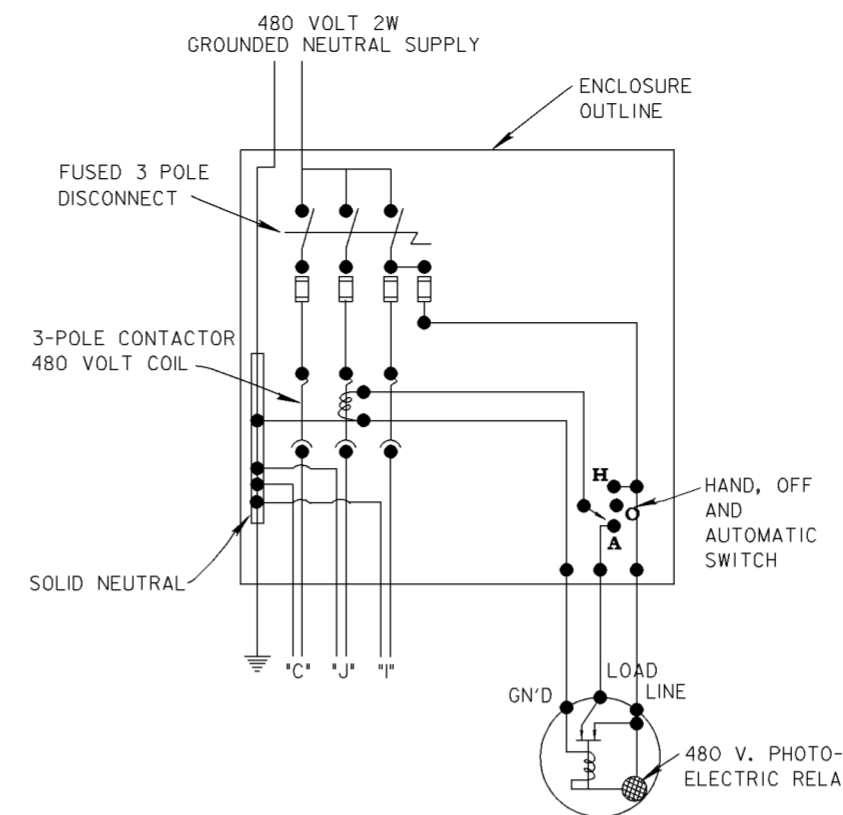
THIS ITEM OF WORK SHALL CONSIST OF THE REERECTION OF THE EXISTING LIGHT TOWER ON A NEW FOUNDATION. THE POLE SHALL BE WASHED AND RESTORED TO WORKING ORDER BEFORE REERECTION. NEW ANCHOR BOLTS SHALL BE PROVIDED AS PART OF THIS ITEM.



GRADING PLAN



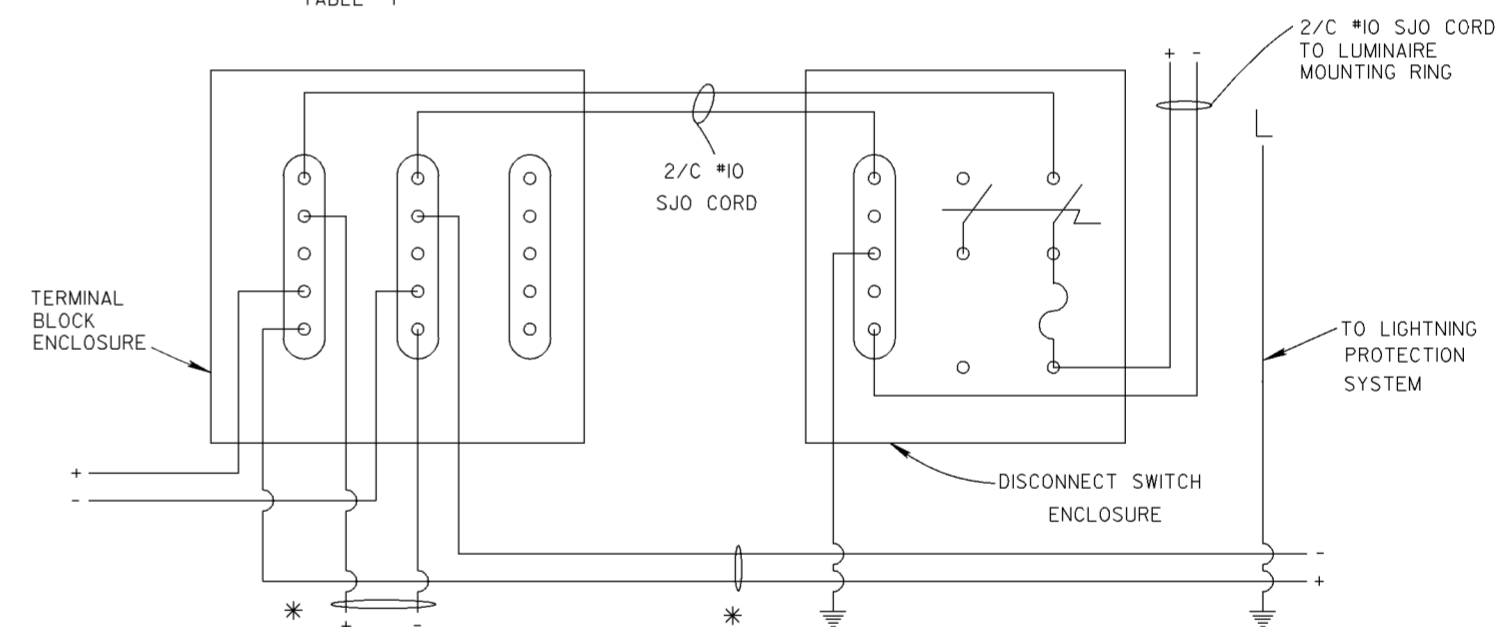
FOUNDATION WITHOUT MAINTENANCE PLATFORM



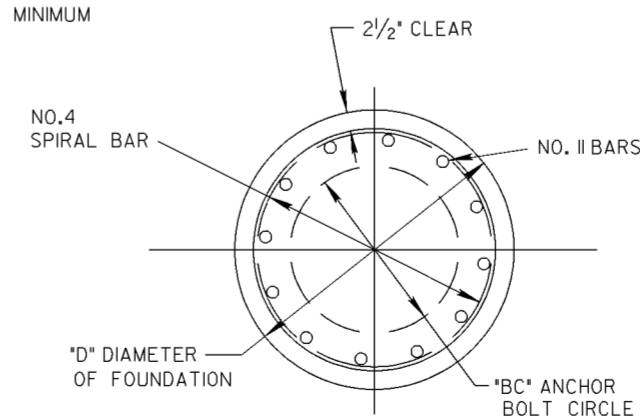
480 VOLT, 2-WIRE GROUNDED NEUTRAL SINGLE UNIT

FOUNDATION DATA			
TYPE	D	B	BC MAX
I	36"	31"	26"
II	42"	37"	32"

TABLE #1



480 VOLT, 2-WIRE GROUNDED



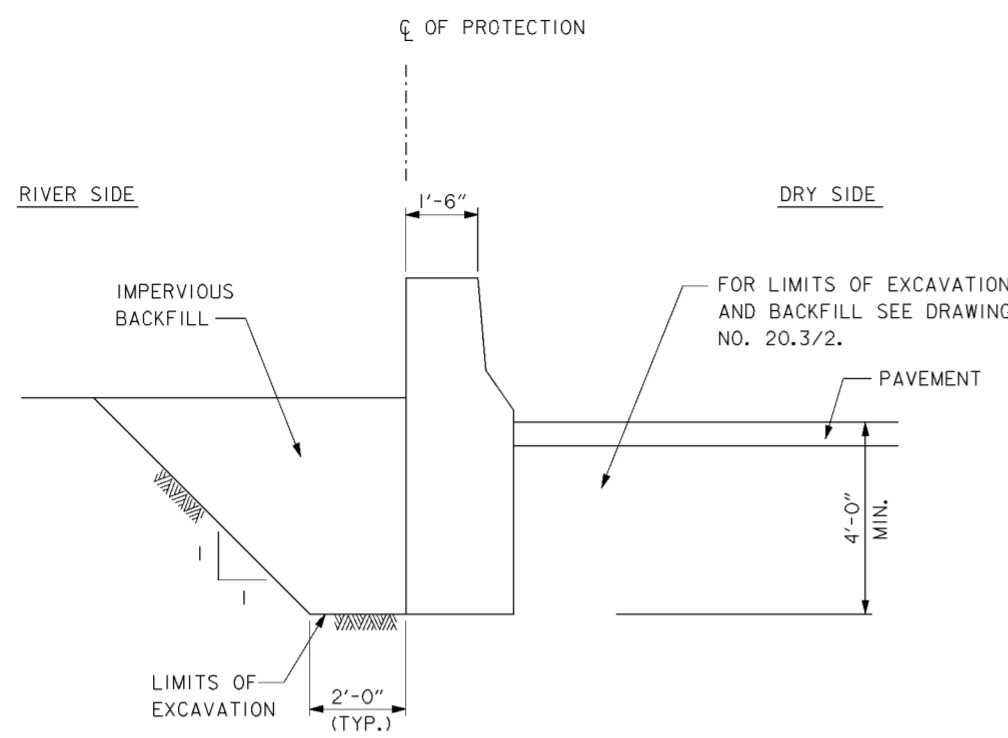
SECTION B-B

DETAIL NOTES

- FOUNDATIONS ARE DESIGNED FOR STRUCTURES WITH ROUND TAPERED SHAFTS DESIGNED IN ACCORDANCE WITH THE LATEST AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", FOR A 90 MPH WIND ZONE WHEN SUPPORTING THE FOLLOWING:
 - SIX (6) CYLINDRICAL LUMINAIRES WITH PROJECTED AREA OF 3.5 SQUARE FEET AND WEIGHING 75 POUNDS EACH.
 - ONE (1) CYLINDRICAL HEAD WITH PROJECTED AREA OF 5.3 SQUARE FEET AND 340 POUNDS TOP LATCHED LOWERING DEVICE.
- TOWER HAND HOLES SHALL BE ON DOWN-SLOPE SIDE OF TOWER.
- ANCHOR BOLT SIZE AND SPACING TO FIT MOUNTING PLATE SUPPLIED WITH TOWER. HOWEVER, BOLT CIRCLE SHALL BE EQUAL TO OR LESS THAN THE MAXIMUM BOLT CIRCLE PERMITTED IN TABLE NO.1. THE MINIMUM LENGTH ANCHOR BOLT SHALL BE 60" AND THE BOLTS SHALL HAVE EITHER A 6 INCH "L" BEND OR A 5" X 5" PLATE ON THE EMBEDDED END.
- THE LENGTH "L" OF THE 1/2" NO.4 SPIRAL BAR IS THE FOUNDATION EMBEDMENT DEPTH WITH A 3" CLEARANCE AT EACH END. FOUR STEEL CHANNELS, TEE OR ANGLE SPACERS, WEIGHING APPROXIMATELY 0.80 POUNDS PER FOOT OF SPACER SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF TURNS OF THE NO.4 SPIRAL BAR SHALL INCLUDE A FULL UNPITCHED TURN AT EACH END.
- CONCRETE SHALL BE AS PER 499, CLASS "C".
- CONDUITS IN THE FOUNDATION SHALL CONFORM TO 625 AND 713. THE FOUNDATION CONDUIT SHALL BE OF THE SAME MATERIAL AS THAT USED TO PROTECT THE CIRCUIT EXTENSION BEYOND THE FOUNDATION.

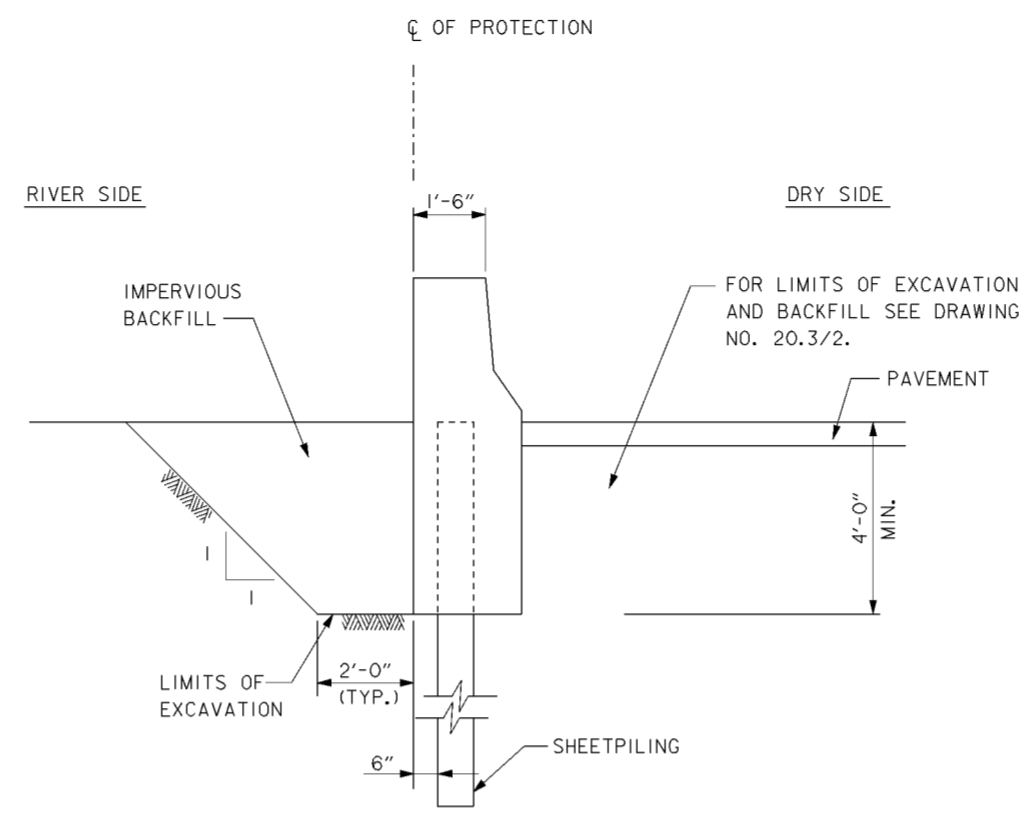
Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J.WOMACK	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T.FAHERTY	TOWER LIGHTING NOTES AND DETAILS
Checked by: J.WOMACK	Scale: NONE
Reviewed by: J.AYRES	Date: OCTOBER 1999
Approved by: E.TURNER	Drawing Code: 16-PWC-12-
Sheet reference number:	FILENAME: 00u5gn01.dgn
	PIN TABLE:
	20.2/16
	Sheet 1 of 1



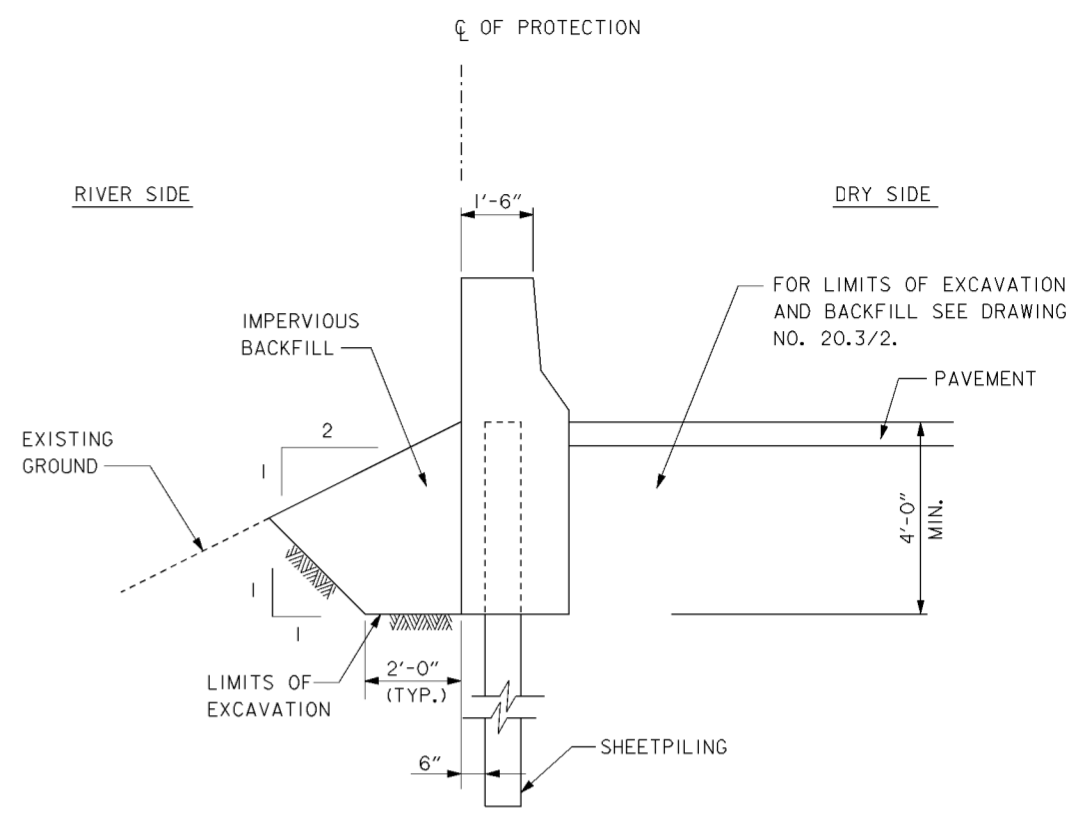
TYPICAL I-WALL SECTION
STA.227+18.00 TO STA.231+13.38
STA.250+08.74 TO STA.251+82.07

SCALE: $\frac{1}{2}" = 1'-0"$
 NOTE: EXISTING CURB NOT SHOWN.



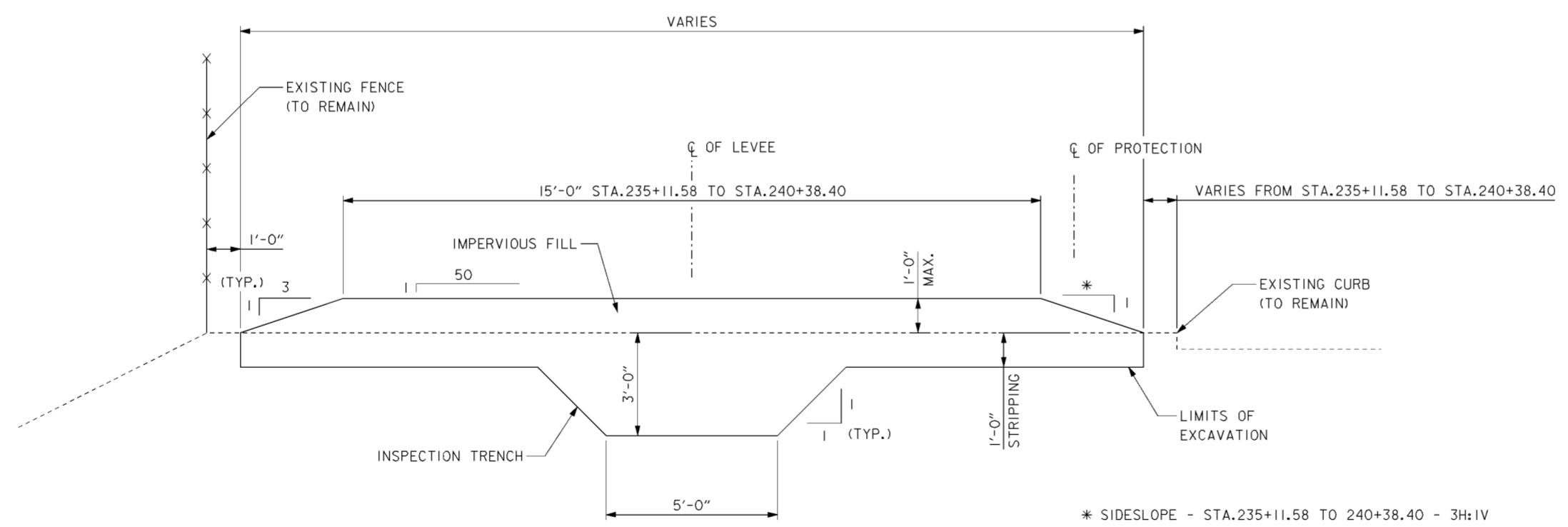
TYPICAL I-WALL SECTION
STA.231+13.38 TO STA.235+32.19
STA.251+82.07 TO STA.254+66.95

SCALE: $\frac{1}{2}" = 1'-0"$
 NOTE: EXISTING CURB NOT SHOWN.



TYPICAL I-WALL SECTION
STA.254+66.95 TO STA.260+45.10

SCALE: $\frac{1}{2}" = 1'-0"$
 NOTE: EXISTING CURB NOT SHOWN.



TYPICAL LEVEE SECTION
STA.235+11.58 TO STA.240+38.40
STA.248+15.38 TO STA.250+08.74

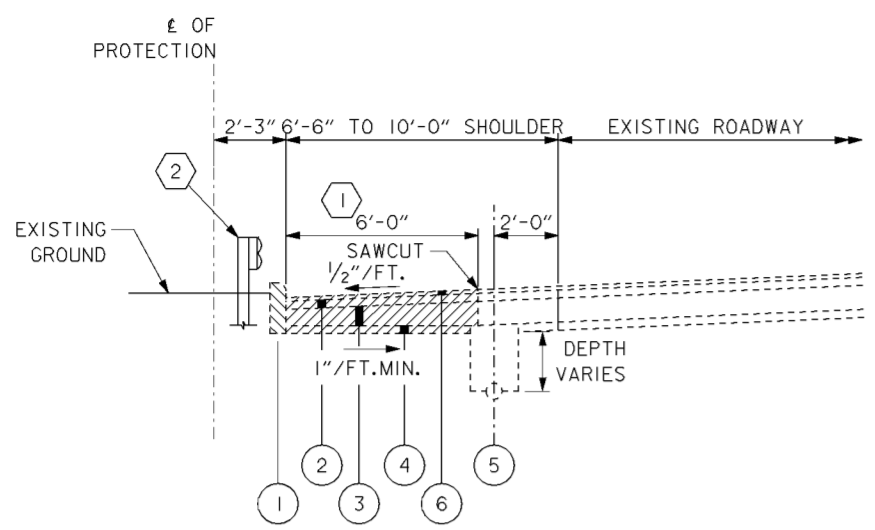
SCALE: $\frac{1}{2}" = 1'-0"$

* SIDESLOPE - STA.235+11.58 TO 240+38.40 - 3H:1V
 SIDESLOPE - STA.248+15.38 TO 250+08.74 - VARIES

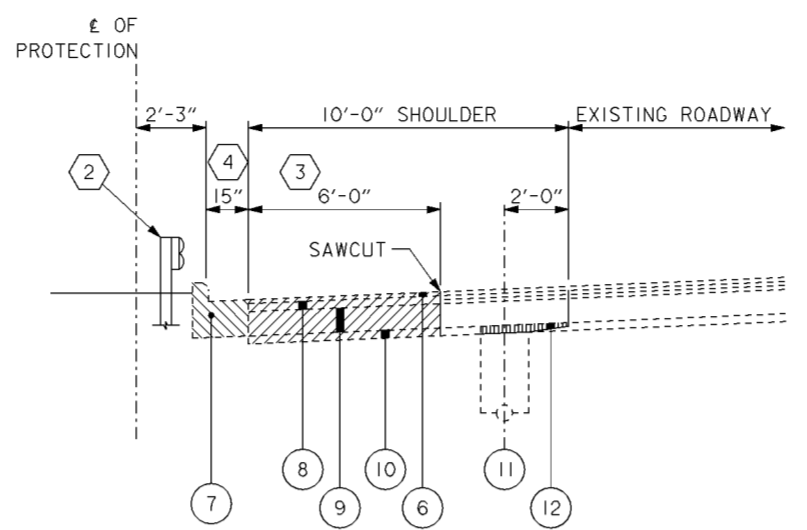
NOTES

1. FOR PAVEMENT SECTION AND PAVEMENT GRADING SEE DRAWING NO. 20.3/2.

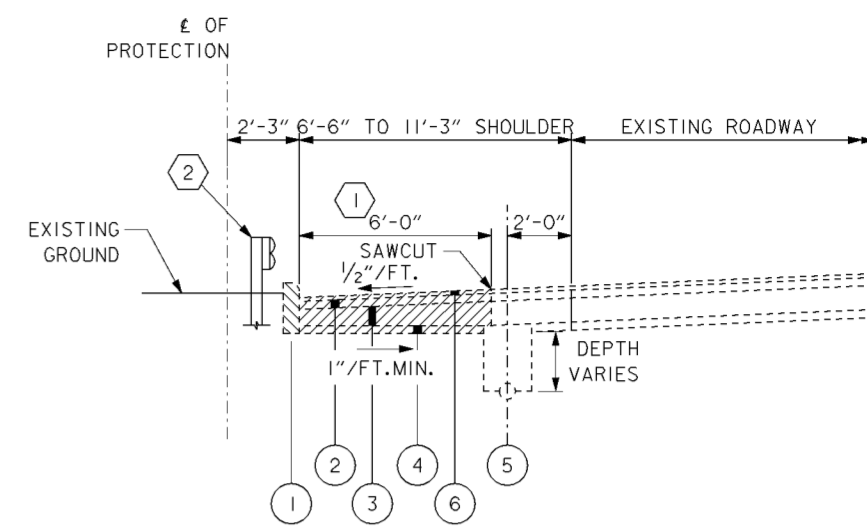
Revisions			
Symbol	Descriptions	Date	Approved
REV. IN ACCORDANCE WITH AMENDMENT MC001 2/28/00 P.O.C.			
BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J. HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
Drawn by: T. MULLINS	FLOOD PROTECTION TYPICAL SECTIONS		
Checked by: P. CONROY			
Reviewed by:	Scale: AS SHOWN	Sheet reference number: 20.31	FILENAME: PEN TABLE: 00ds01.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 1 of 1



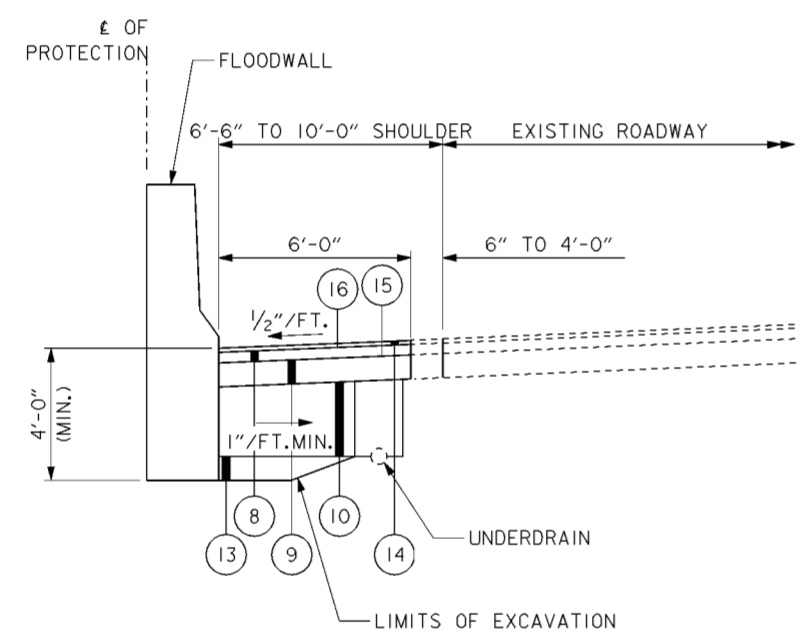
EXISTING SECTION
 STA. 227+10 TO 235+32
 NOTE: EXISTING SECTION OBTAINED FROM
 FRA62-12.56 FRA3-13.70 DRAWINGS.
 SCALE: 1" = 3'



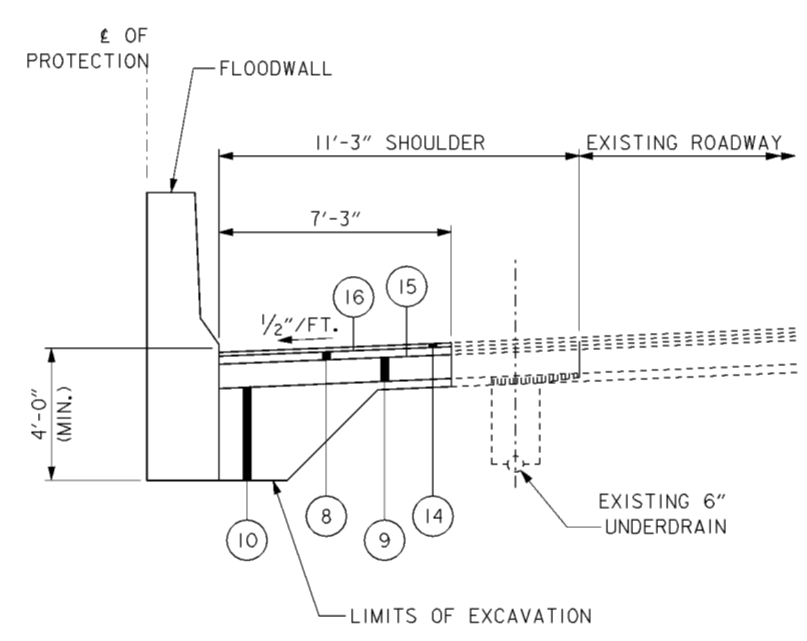
EXISTING SECTION
 STA. 250+00 TO 254+30
 NOTE: EXISTING SECTION OBTAINED FROM
 FRA70-12.31S DRAWINGS.
 SCALE: 1" = 3'



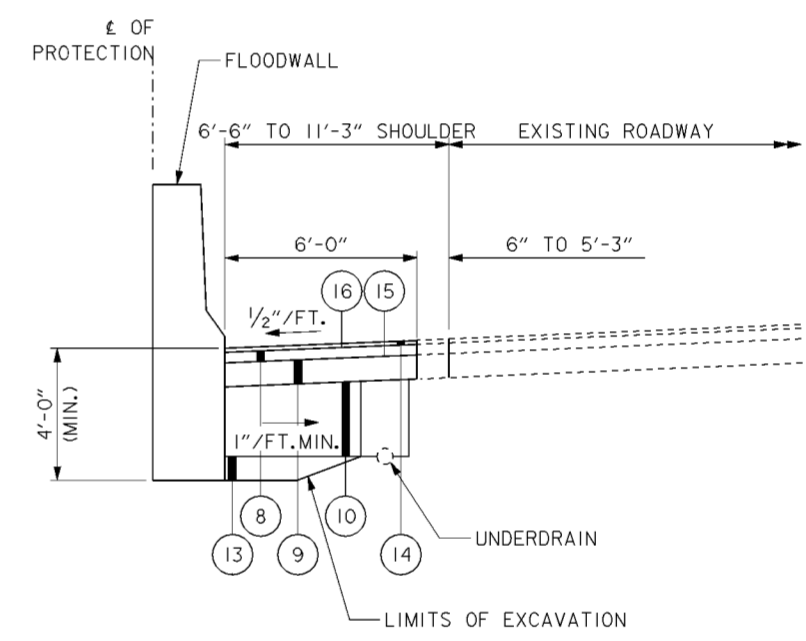
EXISTING SECTION
 STA. 254+30 TO 260+45.10
 NOTE: EXISTING SECTION OBTAINED FROM
 FRA62-12.56 FRA3-13.70 DRAWINGS.
 SCALE: 1" = 3'



TYPICAL SECTION
 STA. 227+10 TO 235+32
 SCALE: 1" = 3'



TYPICAL SECTION
 STA. 250+00 TO 254+30
 SCALE: 1" = 3'



TYPICAL SECTION
 STA. 254+30 TO 260+45.10
 SCALE: 1" = 3'

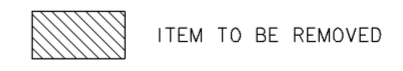
NOTES

1. FOR LIMITS OF EXCAVATION SEE DRAWING NO. 20.3/1.
2. WHERE EXISTING PIPE UNDERDRAINS AND OVERLYING GRANULAR FILTER MATERIAL ARE LOCATED WITHIN THE LIMITS OF EXCAVATION THEY SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR. WHERE PIPE UNDERDRAINS AND GRANULAR FILTER MATERIAL, LOCATED OUTSIDE THE LIMITS OF EXCAVATION, ARE DISTURBED BY THE CONTRACTOR THEY SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE CONTRACTING OFFICER AT NO EXPENSE TO THE GOVERNMENT.
3. THE ESTIMATED QUANTITY FOR ASPHALT CONCRETE SURFACE COURSE WAS CALCULATED BASED ON AN ASSUMED THICKNESS OF 1-1/2 INCHES.

CODED NOTES

- ① SAWCUT AND REMOVE PAVEMENT AND CURB.
- ② REMOVE GUARDRAIL.
- ③ SAWCUT AND REMOVE PAVEMENT AND SUBBASE.
- ④ REMOVE TYPE 2 CURB AND GUTTER.

LEGEND



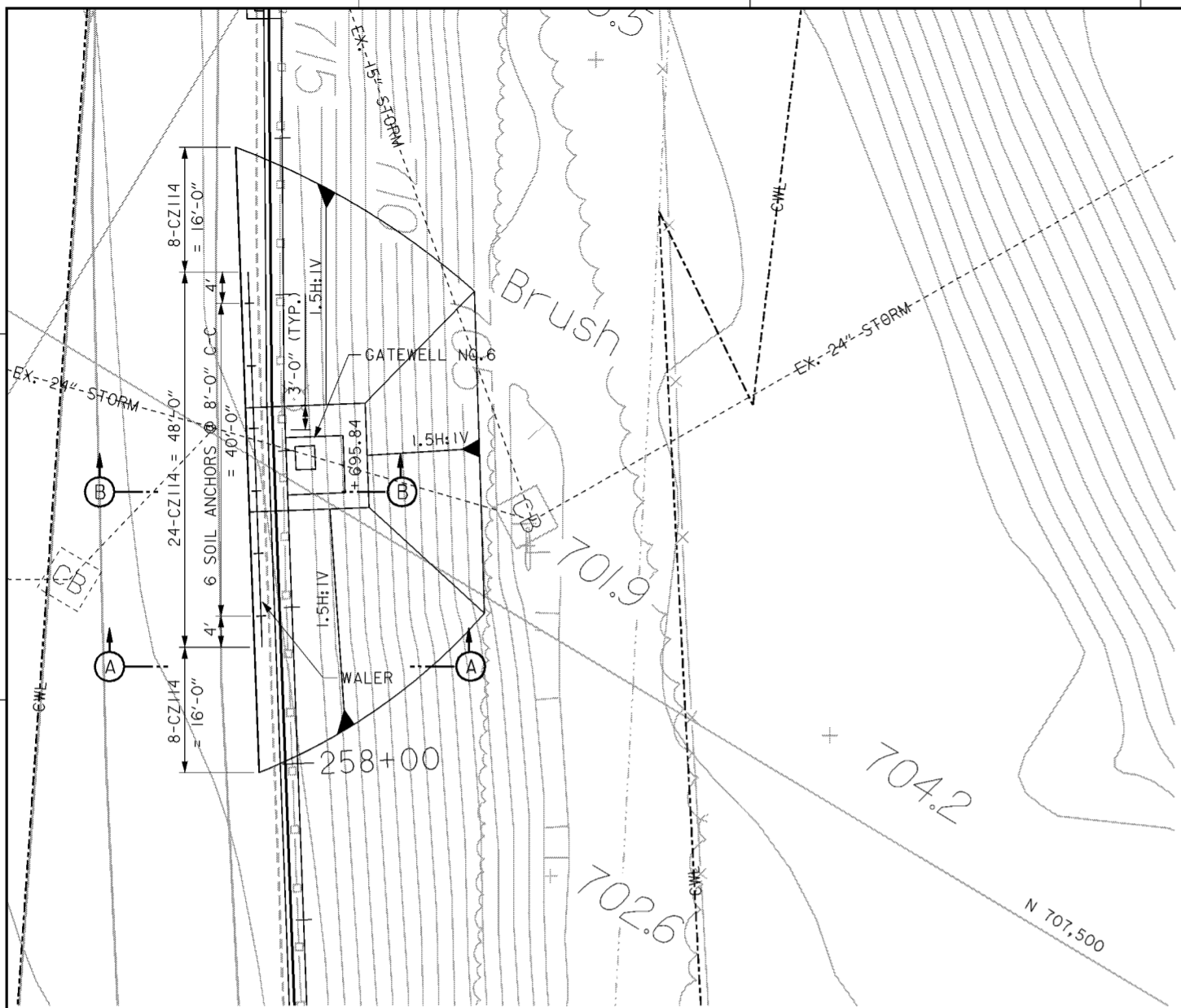
CMSC/ODOT ITEM	CMSC/ODOT ITEM
① 1-12 TYPE 6 CURB (1957)	⑨ 304 9" AGGREGATE BASE
② B-33 3" BITUMINOUS AGGREGATE BASE (1957)	⑩ 310 SUBBASE, THICKNESS VARIES
③ 1-18 STABILIZED CRUSHED AGGREGATE SHOULDERS (1957)	⑪ 605 6" PIPE UNDERDRAIN
④ 1-22 SUBBASE, GRADING A OR B MODIFIED, THICKNESS VARIES (1957)	⑫ - DRAINAGE CONNECTOR, NO. 8 AGGREGATE
⑤ 1-4 6" PIPE UNDERDRAIN (1957)	⑬ - IMPERVIOUS BACKFILL
⑥ - ASPHALT CONCRETE OVERLAY	⑭ 404 ASPHALT CONCRETE SURFACE COURSE, MATCH EXISTING THICKNESS
⑦ 609 TYPE 2 COMBINATION CURB AND GUTTER	⑮ 408 PRIME COAT
⑧ 301 3" BITUMINOUS AGGREGATE BASE	⑯ 407 TACK COAT

Revisions			
Symbol	Descriptions	Date	Approved

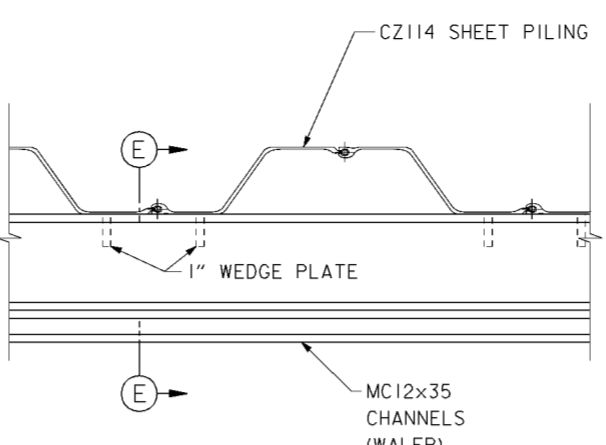
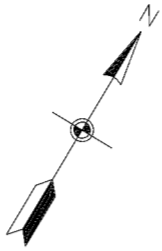
REV. IN ACCORDANCE WITH AMENDMENT MC001 2/28/00 P.O.C.

BURGESS & NIPLÉ, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: P. CONROY	PAVEMENT DETAILS SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA FILENAME: 00pvc01.dgn PIN TABLE:		
Drawn by: T. MULLINS			
Checked by: R. ROMAN			
Reviewed by: AS SHOWN			
Approved by:	Scale: AS SHOWN	Sheet reference number: 20.32	Drawing Code: 16-PWC-12-

Sheet 1 of 1



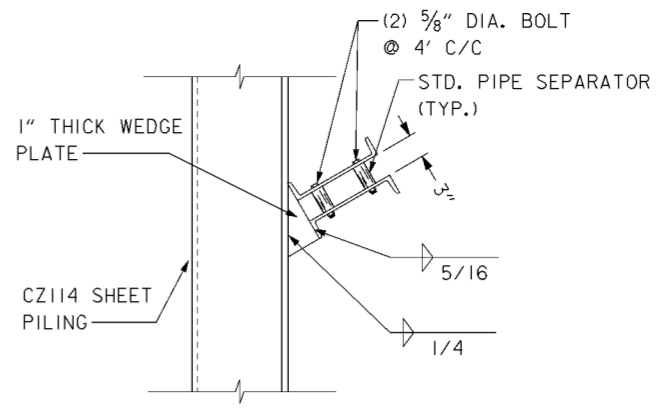
PLAN
SCALE: 1" = 10'



NOTE: ANCHORS NOT SHOWN

SECTION C-C

SCALE: 1" = 1'-0"
1' 0" 5" 1'



SECTION E-E

SCALE: 1" = 1'-0"
1' 0" 5" 1'

CODED NOTES

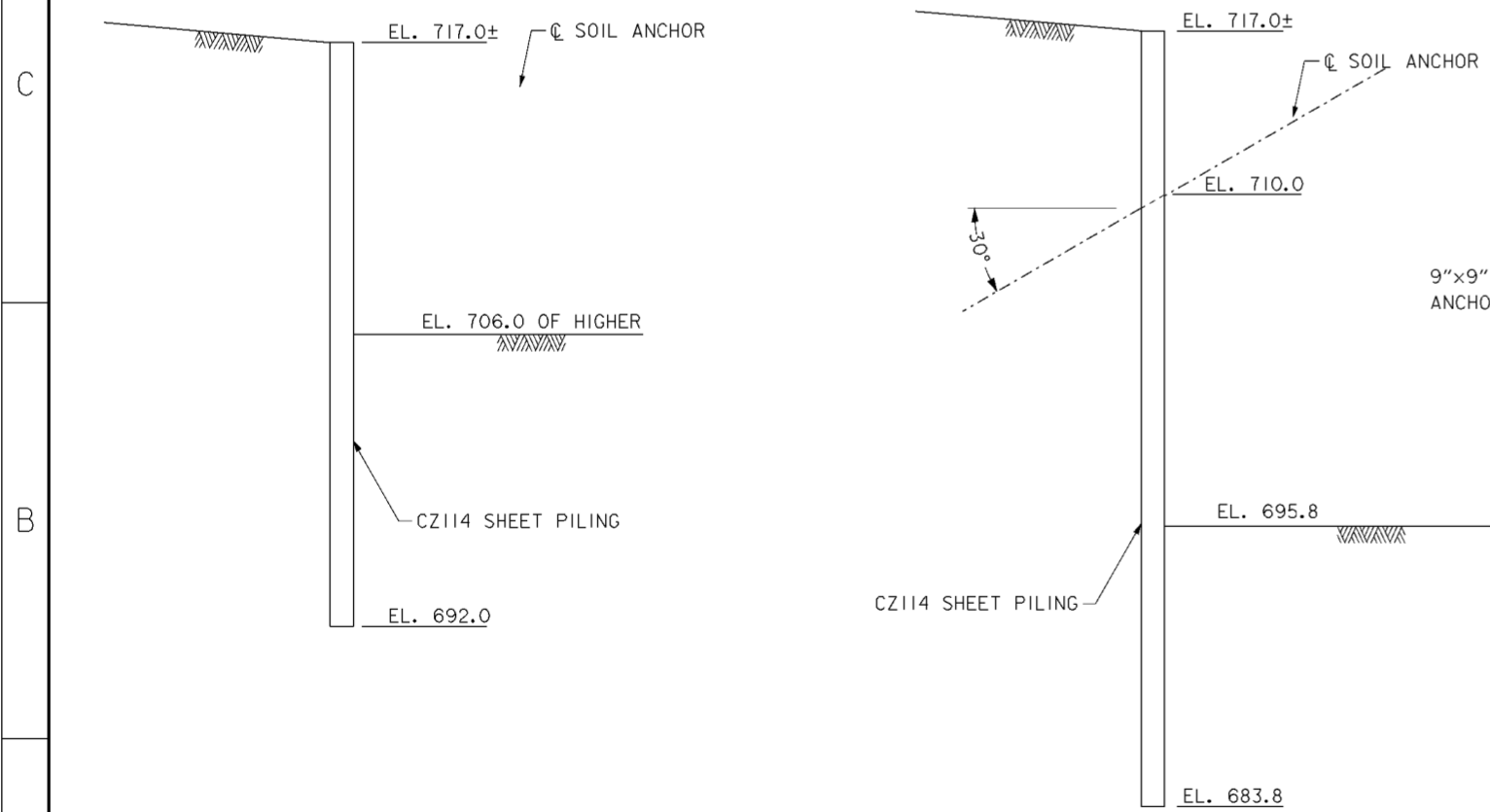
- ▲ SOIL ANCHOR BONDED LENGTH AND DIAMETER TO BE DETERMINED BY THE CONTRACTOR BASED ON PROPOSED METHODS OF INSTALLATION. ANCHOR BOND LENGTH SHALL SAFELY SUPPORT AN ANCHOR DESIGN LOAD OF 80 KIPS WITH A FACTOR OF SAFETY AGAINST PULLOUT OF 2.5. THE MINIMUM BOND LENGTH SHALL BE 20 FEET.
- ▲ VOID BETWEEN DRILL HOLE AND SHEATHING OF UNBONDED LENGTH SHALL BE FILLED WITH GROUT.

GENERAL NOTES

- 1. SOIL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS, 1996 EDITION BY THE POST-TENSIONING INSTITUTE" (PTI).
- 2. SOIL ANCHOR DESIGN LOAD = 80 KIPS.
- 3. 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.
- 4. NO EXCAVATION BELOW ELEVATION 709 (EXCEPT FOR MINOR EXCAVATION TO DRILL SOIL ANCHOR) SHALL OCCUR UNTIL ALL SOIL ANCHORS FOR SHORING HAVE BEEN INSTALLED AND TESTED.
- 5. SHEET PILING LAYOUT WAS BASED UPON THE PROPERTIES FOR THE CZ114 COLD-ROLLED SHEET PILING MANUFACTURED BY CASTEEL, INC. OTHER MANUFACTURERS OF SHEET PILING ARE ACCEPTABLE IF THEY MEET THE MINIMUM SECTION PROPERTIES FOR Z-TYPE SHEET PILING GIVEN BELOW.

SECTION	WEB THICKNESS (IN.)	SECTION MODULUS (PER LIN. FT. OF WALL) (IN. ³)	STEEL GRADE
CZ114	0.335	31.62	A572 GR50

- 6. ANCHORS SHALL BE EQUIPPED WITH SIMPLE CORROSION PROTECTION IN ACCORDANCE WITH FHWA/RD-82/047, TIEBACKS.

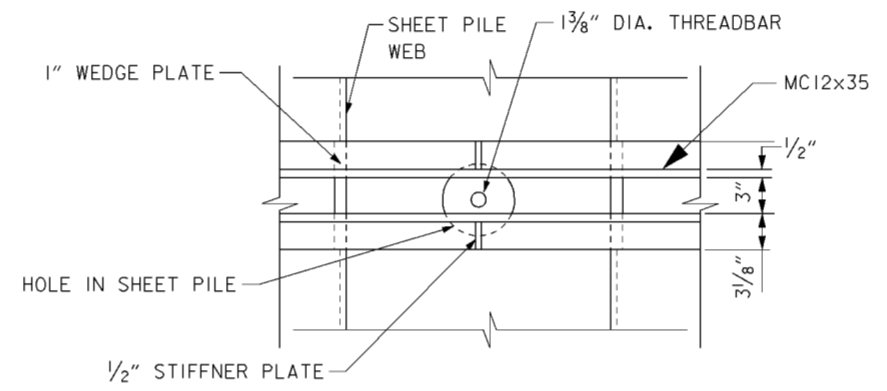


SECTION A-A

SCALE: 1/4" = 1'-0"
12' 0" 6" 3" 0" 5"

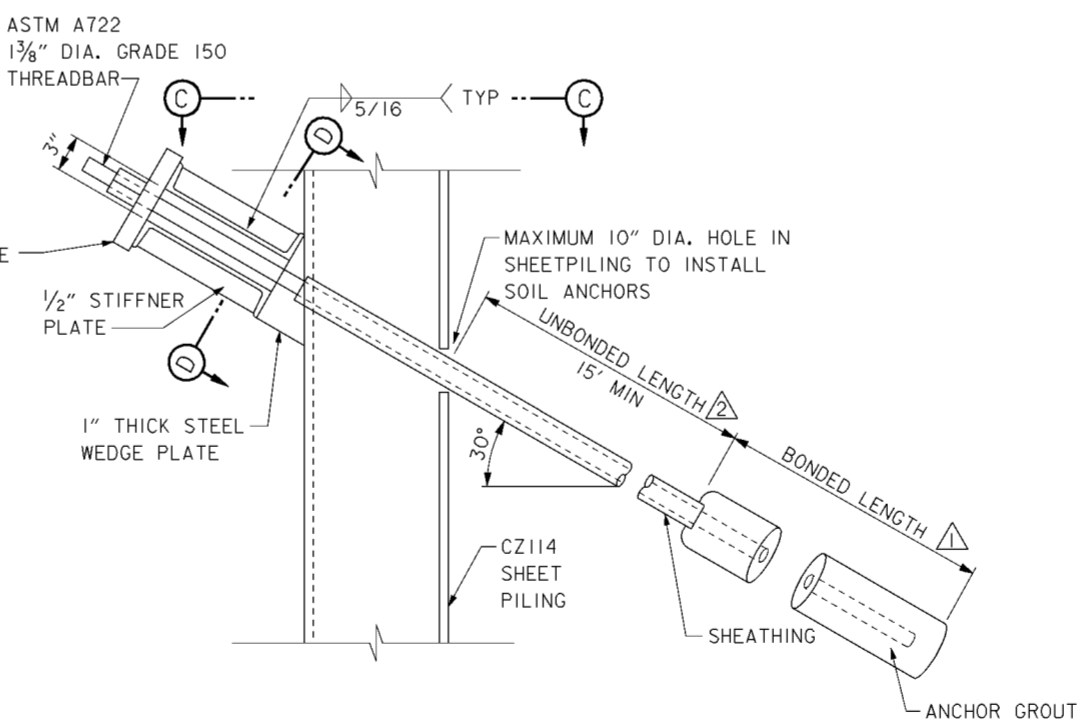
SECTION B-B

SCALE: 1/4" = 1'-0"
12' 0" 6" 3" 0" 5"



SECTION D-D

SCALE: 3/8" = 1'-0"
12' 6" 0" 1' 2"

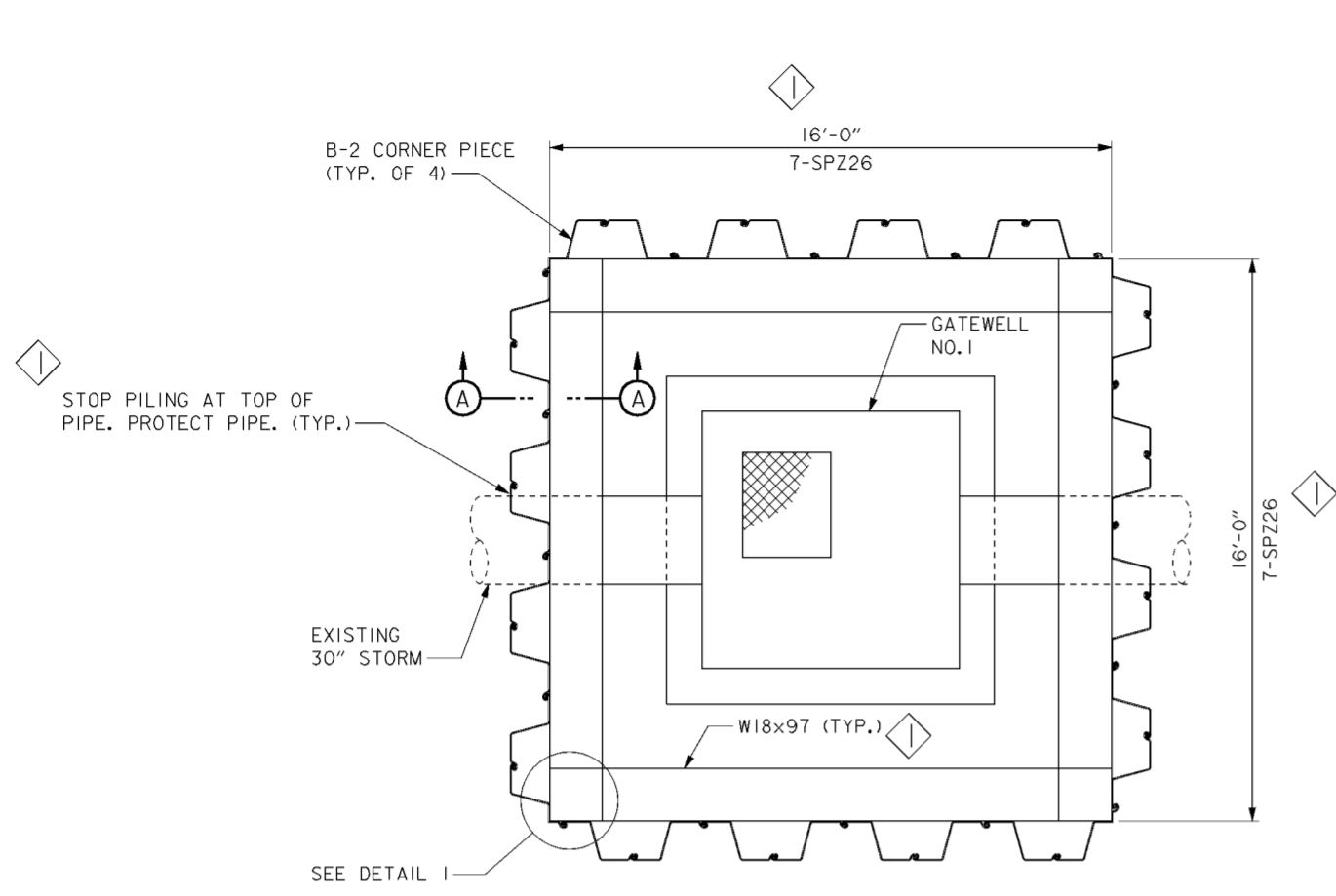


TYPICAL SOIL ANCHOR DETAIL

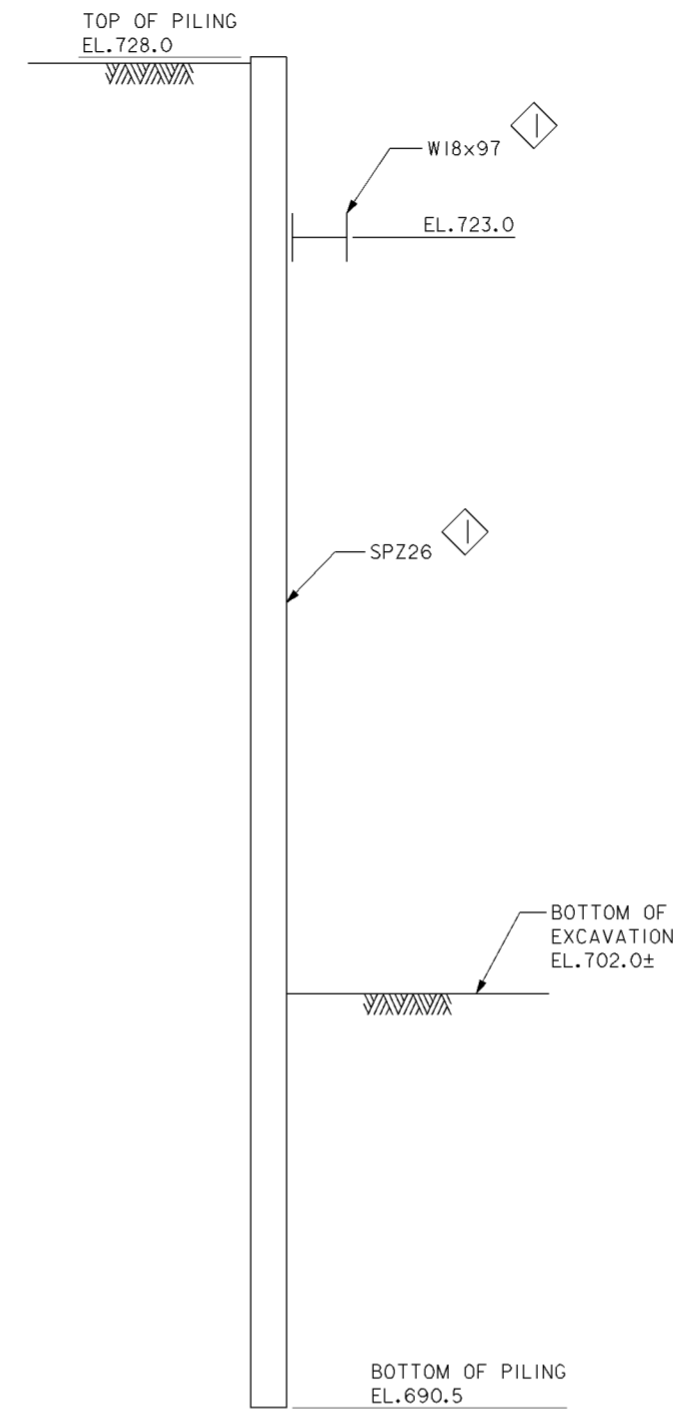
SCALE: 1 1/2" = 1'-0"
12' 9" 6" 3" 0" 1'

Revisions			
Symbol	Descriptions	Date	Approved

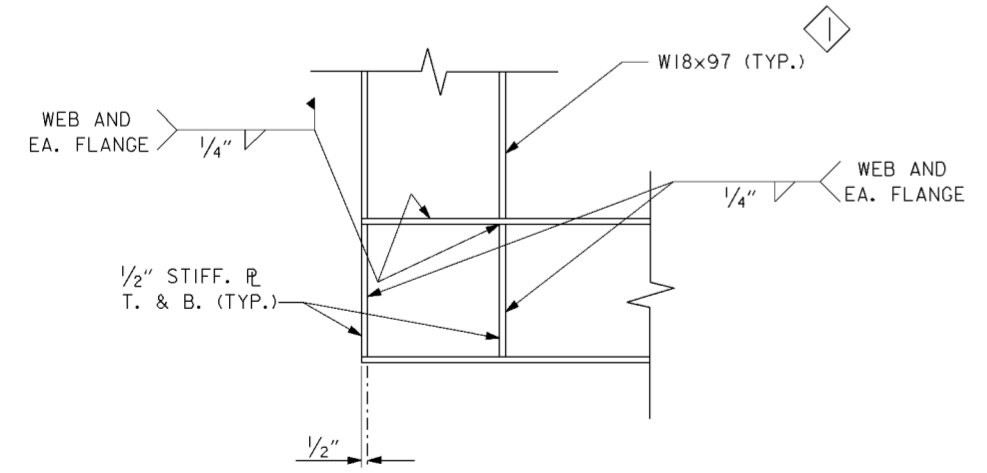
BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: J. HALL			
Drawn by: A. PUMMELL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
Checked by: V. AMATO	GATEWELL NO. 6 SHORING PLAN		
Reviewed by:	Scale: AS SHOWN	Sheet reference number: 20.33	FILENAME: PIN TABLE: 00app101.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 1 of 1



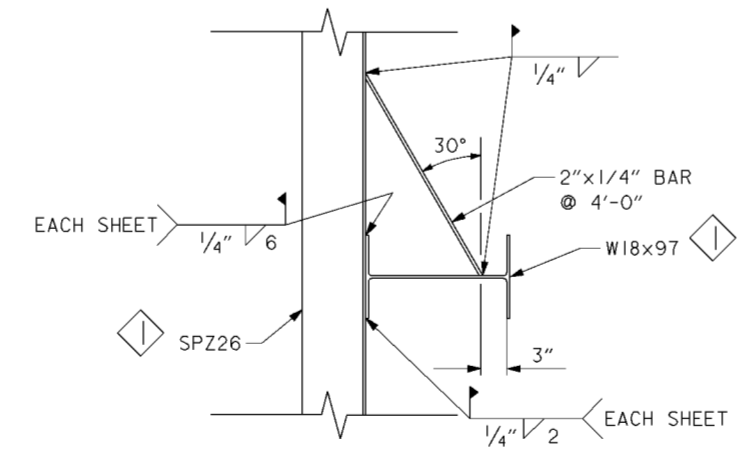
SHORING PLAN
 SCALE: $\frac{3}{8}'' = 1'-0''$



SECTION A-A
 SCALE: $\frac{3}{8}'' = 1'-0''$



DETAIL 1
 SCALE: 1" = 1" * TYPICAL 4 LOCATIONS

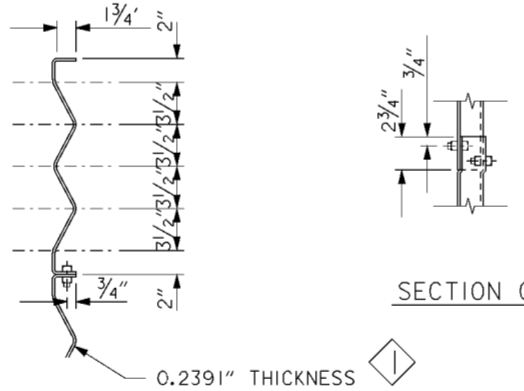
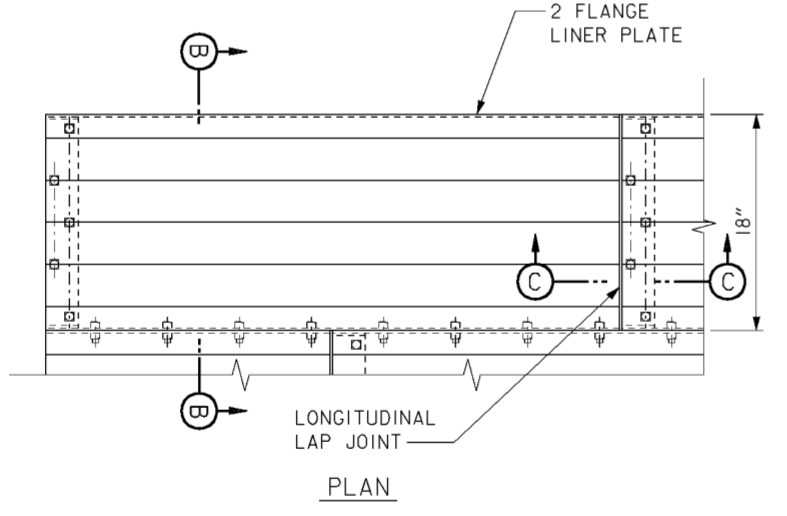
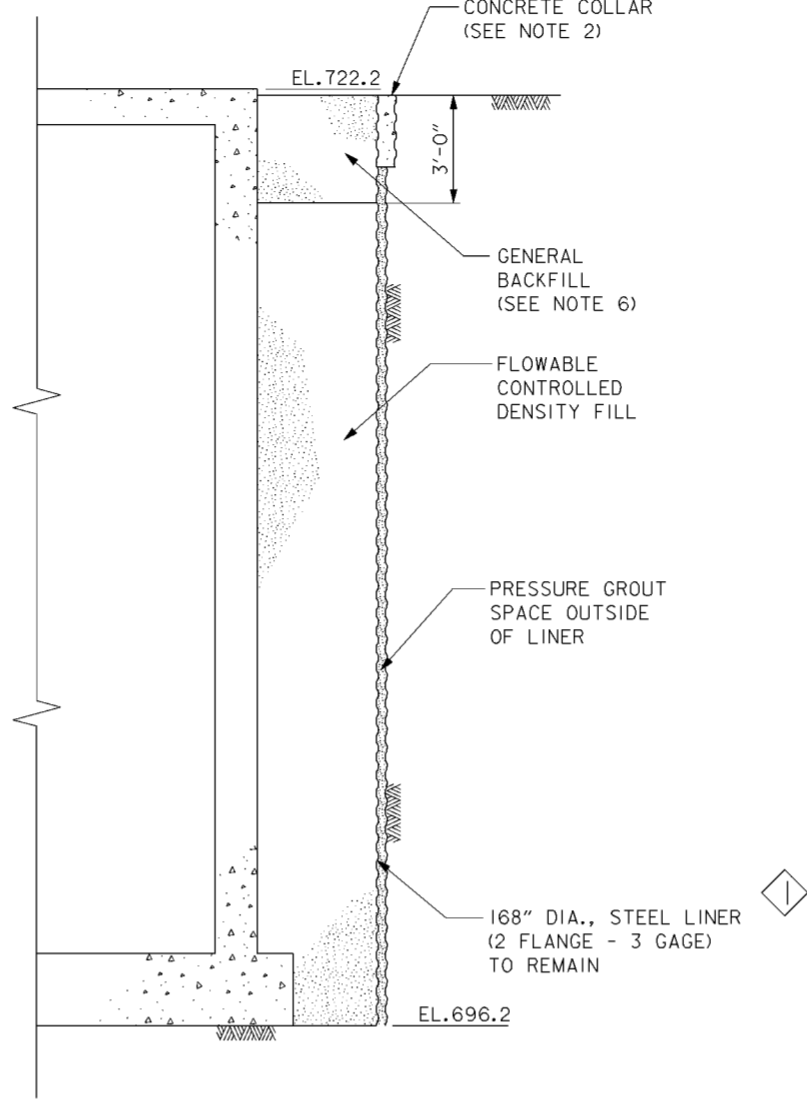
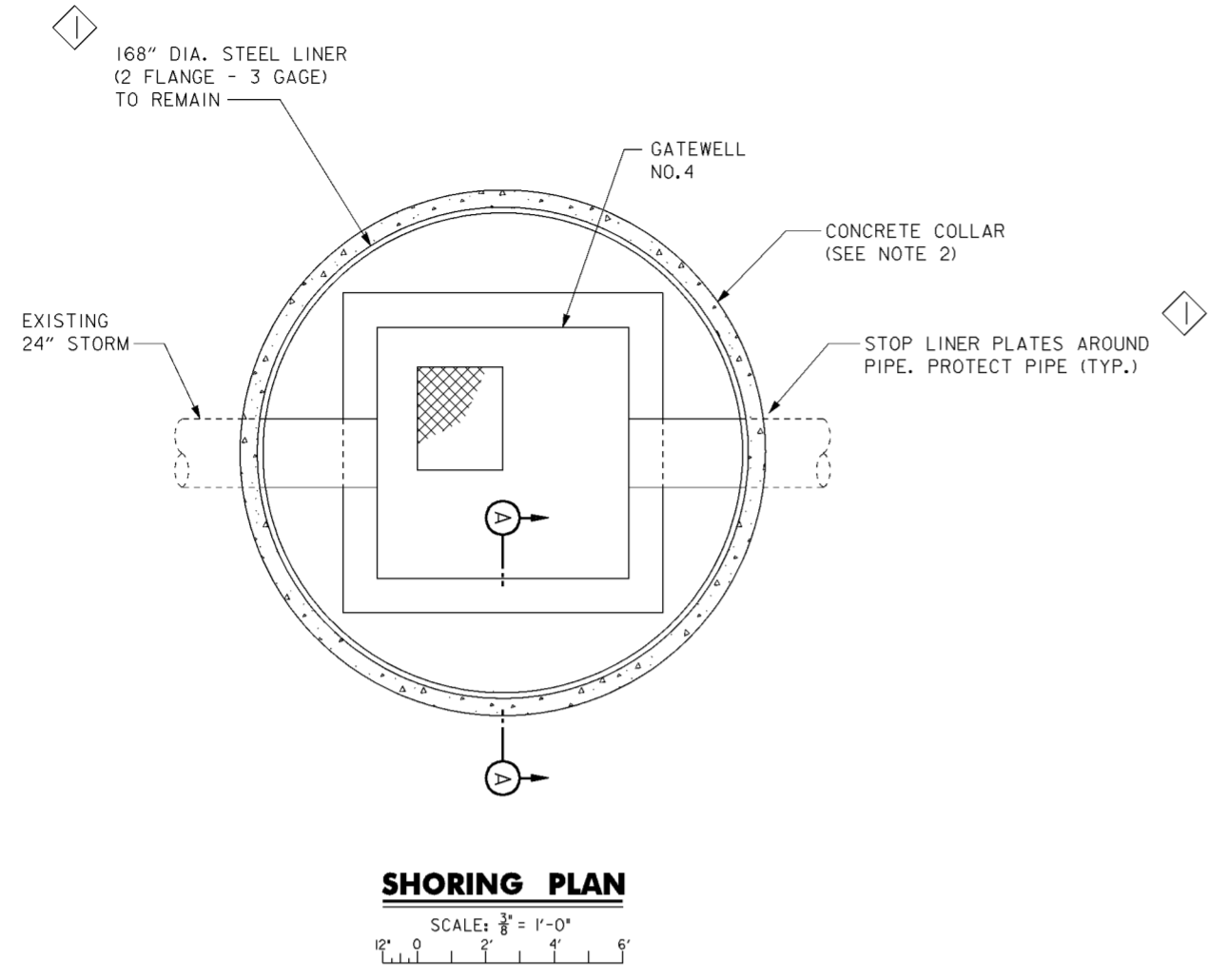


TYPICAL WALE CONNECTION
 SCALE: 1" = 1"

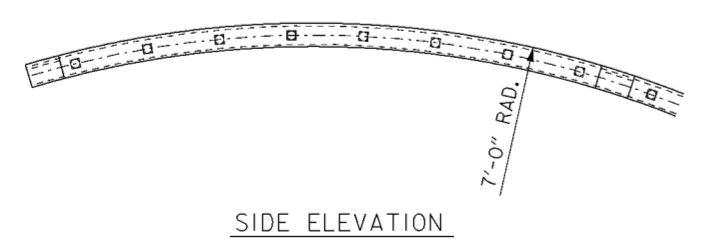
- NOTE**
- NO EXCAVATION BELOW EL. 722.0 SHALL OCCUR UNTIL ALL BRACING HAS BEEN INSTALLED.
 - SHEET PILING LAYOUT WAS BASED UPON THE PROPERTIES FOR THE SPZ26 COLD-ROLLED SHEET PILING MANUFACTURED BY SYRO, INC. OTHER MANUFACTURERS OF SHEET PILING ARE ACCEPTABLE IF THEY MEET THE MINIMUM SECTION PROPERTIES FOR Z-TYPE SHEET PILING GIVEN BELOW.
- | SECTION | WEB THICKNESS (IN.) | MODULUS (PER LIN. FEET OF WALL) | STEEL GRADE |
|---------|---------------------|---------------------------------|-------------|
| SPZ26 | 0.375 | 34.82 | A572 GR50 |
- FOR GATEWELL NO.2 SEE DRAWING NOS. 15/1, 15/7 AND 15/8.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. IN ACCORDANCE WITH AMENDMENT 0001	12/99	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 IIIA
Drawn by: T. MULLINS	GATEWELL NO. 1 SHORING PLAN
Checked by: P. CONROY	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-
	Sheet reference number: 20.3/4
	FILENAME: 00app102.dgn
	PIN TABLE:
	Sheet 1 of 1



SECTION C-C



LINER PLATE DETAILS AND NOTES
 SCALE: $1\frac{1}{2}'' = 1'-0''$

MINIMUM LINER PLATE PROPERTIES

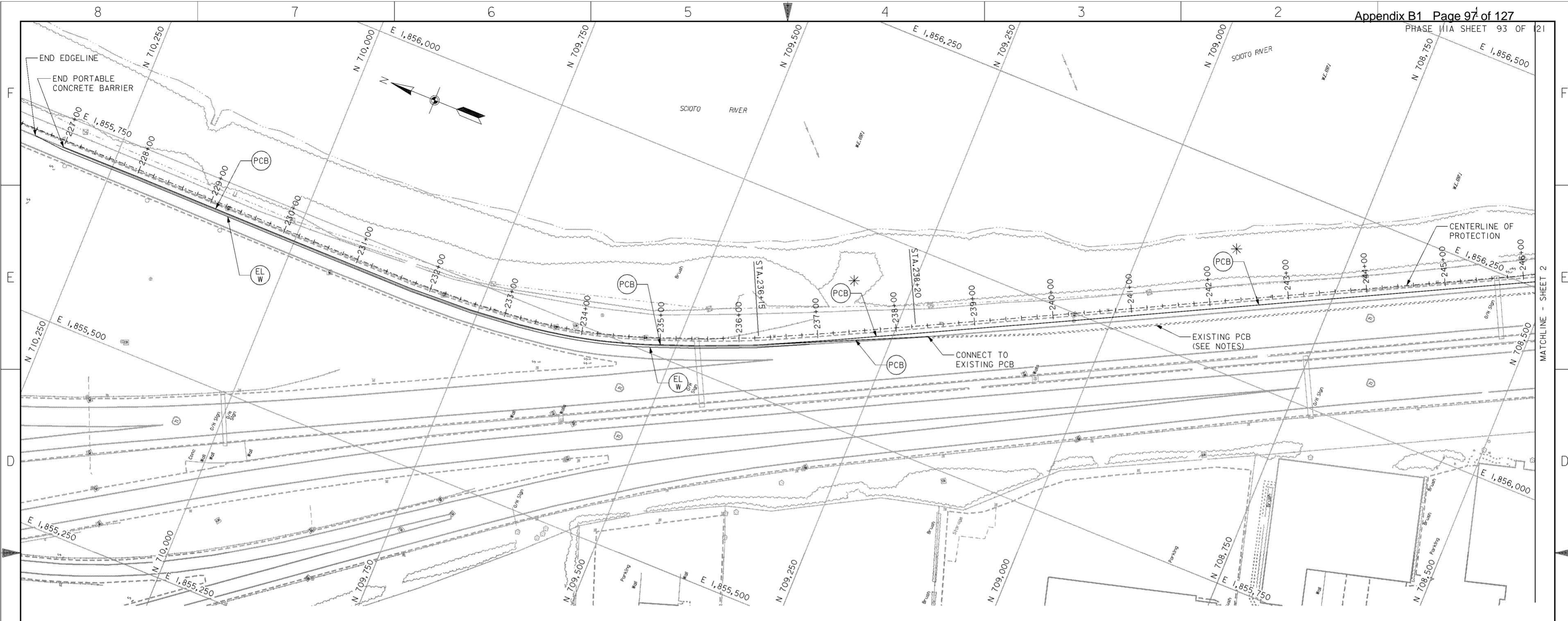
MATERIALS:
 LINER PLATE: ASTM A 569
 MIN. TENSILE STRENGTH: 42,000 PSI
 MIN. YIELD STRENGTH: 28,000 PSI
 ULTIMATE SEAM STRENGTH: 92,000 POUNDS/FT.
 BOLTS FOR LAPPED SEAMS: ASTM A 449
 BOLTS FOR CIRCUMFERENTIAL SEAMS: ASTM A 307
 NUTS: ASTM A 307 GRADE A

DIMENSIONS:
 THICKNESS: 3 GAGE MINIMUM
 WIDTH: 18 INCHES
 BOLTS: $\frac{5}{8}'' \phi$

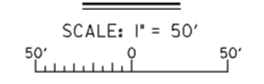
SECTION PROPERTIES:
 AREA: 3.740 IN²/FT
 MOMENT OF INERTIA: 1.4313 IN⁴/FT
 SECTION MODULUS: 1.2777 IN³/FT

- NOTE**
1. LOCATION. THE CONTRACTOR SHALL CONDUCT FIELD SURVEYS IN ORDER TO DETERMINE THE EXACT LOCATION OF THE EXISTING 24-INCH DIAMETER STORM SEWER. THE SHORING SHALL BE CENTERED OVER THE EXISTING STORM SEWER.
 2. COLLAR. CONTRACTOR TO PROVIDE COLLAR IN ACCORDANCE WITH LINER PLATE MANUFACTURER'S RECOMMENDATIONS.
 3. LINER PLATE. SHAFT LINER IS TO BE INSTALLED AT THE ADVANCING SHAFT FACE. EACH COURSE OF LINER PLATES SHALL BE COMPLETED BEFORE EXCAVATING FOR ADJACENT, LOWER COURSES OF LINER PLATE. EXCAVATION SHALL NOT BE ADVANCED MORE THAN ONE COURSE OF LINER PLATES BELOW THE NEXT COMPLETED COURSE. LINER PLATES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 4. FLOWABLE CONTROLLED DENSITY FILL. SPACE BETWEEN LINER PLATE AND GATEWELL TO BE BACKFILLED WITH FLOWABLE CONTROLLED DENSITY FILL (FCDF). FCDF SHALL BE IN ACCORDANCE WITH CMSC ITEM 636, TYPE I EXCEPT THAT IT SHALL CONTAIN 100 LB. OF CEMENT PER CUBIC YARD OF FCDF. FCDF SHALL BE PLACED IN LIFTS NOT EXCEEDING 7.5 FEET AND ALLOWED TO SET PRIOR TO PLACING THE NEXT LIFT. EACH LIFT OF FCDF SHALL BE PLACED AROUND THE STRUCTURE UNIFORMLY TO PREVENT UNBALANCED LOADING ON THE GATEWELL. CONCRETE SHALL CURE A MINIMUM OF 14 DAYS PRIOR TO PLACING ANY FCDF BACKFILL.
 5. GROUTING. GROUTING BETWEEN THE LINER PLATE AND SURROUNDING SOIL SHALL CONFORM TO PARAGRAPH 908.10, GROUTING OF CMSC ITEM 908. GROUT HOLE SPACING IN THE LINER PLATES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. GROUTING SHALL BE PERFORMED AT DEPTH INTERVALS NOT TO EXCEED 6 FEET OR MORE FREQUENTLY AS REQUIRED FOR SOIL CONDITIONS ENCOUNTERED. GROUTING PRESSURES, MEASURED AS TOTAL HEAD, SHALL NOT EXCEED 13 POUNDS PER SQUARE INCH.
 6. GENERAL BACKFILL. REMOVE TOP 3 FEET OF LINER PLATE AND ANY COLLAR PRIOR TO PLACING GENERAL BACKFILL.
 7. DEWATERING. STEEL LINER PLATE HAS BEEN DESIGNED BASED ON GROUNDWATER BEING PRESENT BELOW THE BOTTOM OF THE EXCAVATION. IF GROUNDWATER IS ENCOUNTERED ABOVE THE BOTTOM OF THE EXCAVATION THE CONTRACTOR SHALL TAKE MEASURES TO LOWER AND MAINTAIN GROUNDWATER A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXCAVATION. GROUNDWATER SHALL BE LOWERED OUTSIDE THE EXCAVATION. SUMPING FROM THE EXCAVATION AS THE PRIMARY MEANS OF DEWATERING WILL NOT BE PERMITTED.

Revisions			
Symbol	Descriptions	Date	Approved
REV. IN ACCORDANCE WITH AMENDMENT 0001 12/99 P.O.C.			
BURGESS & NIPL, 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 IIIA		
Drawn by: T.MULLINS	GATEWELL NO.4 SHORING PLAN		
Checked by: P.CONROY			
Reviewed by:	Scale: AS SHOWN	Sheet reference number: 20.3/5	FILENAME: PIN TABLE: 00app103.dgn
Approved by:	Date: OCTOBER 1999	Drawing Code: 16-PWC-12-	Sheet 1 of 1



PLAN



NOTES

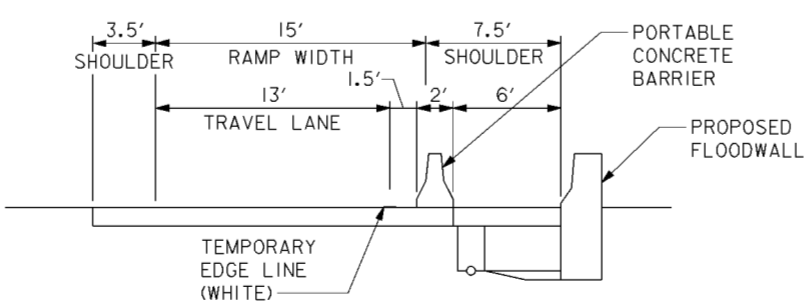
- MAINTENANCE OF TRAFFIC**
TRAFFIC SHALL BE MAINTAINED PER THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE ODOT SPECIFICATIONS, AS WELL AS THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". THE CONTRACTOR SHALL CONTACT THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 6 AND THE CITY OF COLUMBUS TRAFFIC DIVISION 14 DAYS PRIOR TO BEGINNING THIS WORK.

ALL LANES OF I-71 SHALL REMAIN OPEN TO TRAFFIC AND I-71 TRAFFIC SHALL NOT BE BLOCKED OR IMPEDED IN ANY WAY DURING THE CONSTRUCTION OF THIS PROJECT. NO CONSTRUCTION ACCESS SHALL BE ALLOWED FROM I-71. THERE SHALL BE NO OPENINGS IN THE PORTABLE CONCRETE BARRIER AT ANY TIME.
- TEMPORARY PAVEMENT MARKINGS**
THIS ITEM SHALL BE PERFORMED PER THE ODOT "CONSTRUCTION AND MATERIALS SPECIFICATIONS" ITEM 614.
- PORTABLE CONCRETE BARRIERS**
THIS ITEM SHALL BE PERFORMED PER THE ODOT "CONSTRUCTION AND MATERIALS SPECIFICATIONS" ITEM 622 AND ODOT STANDARD CONSTRUCTION DRAWING RM-4.2M (10-21-97). THE BARRIER SHALL BE DELINEATED AS DESCRIBED IN ODOT STANDARD CONSTRUCTION DRAWING MT-95.40M (4-25-94).
- EXISTING PORTABLE CONCRETE BARRIER**
THE EXISTING PORTABLE CONCRETE BARRIER IS IN PLACE TO CLOSE THE NORTHBOUND RIGHT LANE OF I-71 AS PART OF THE SPRING-SANDUSKY INTERCHANGE PROJECT. IT IS ANTICIPATED THAT THIS BARRIER WILL BE IN PLACE UNTIL LATE 1999. AS LONG AS THIS BARRIER IS IN PLACE IT SHALL BE UTILIZED AS SHOWN ON THIS PLAN. IF THIS BARRIER IS NOT IN PLACE AT THE BEGINNING OF THIS PROJECT OR IS REMOVED DURING THE CONSTRUCTION OF THIS PROJECT, ADDITIONAL BARRIER, DRUMS, AND STRIPING WILL BE REQUIRED AS SHOWN ON THIS PLAN.

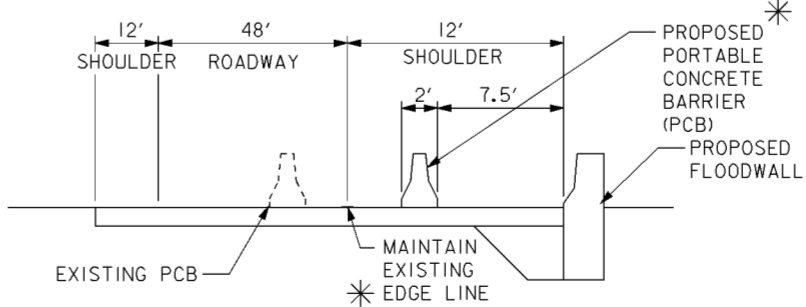
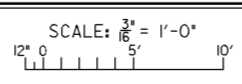
- CLOSURE OF EXISTING GREENLAWN AVE. RAMP TO I-71**
WORK REQUIRING CLOSURE OF THE ON-RAMP FROM GREENLAWN AVE. TO I-71 SHALL BE PERFORMED SO THAT THE EXISTING CLOSURE (PART OF THE SPRING-SANDUSKY INTERCHANGE PROJECT) MAY BE UTILIZED. IT IS ANTICIPATED THAT THE RAMP CLOSURE AND DETOUR WILL BE IN PLACE UNTIL LATE 1999. IF THE RAMP CLOSURE AND DETOUR FROM THE MENTIONED PROJECT IS NOT IN PLACE, THE CONTRACTOR SHALL CLOSE THE RAMP AND SIGN A DETOUR MATCHING THE CLOSURE AND DETOUR THAT WAS IN PLACE DURING THE SPRING-SANDUSKY INTERCHANGE PROJECT. IF IT IS REQUIRED TO CLOSE THE GREENLAWN AVE. RAMP FOR THIS PROJECT, THE RAMP SHALL NOT BE CLOSED FOR MORE THAN 21 DAYS.

LEGEND

- * THESE ITEMS ONLY TO BE PERFORMED IF EXISTING PCB IS NOT IN PLACE. (SEE NOTES)
- (PCB) PORTABLE CONCRETE BARRIER
- (EL W) TEMPORARY EDGE LINE, WHITE



STATION 227+00 TO 238+20

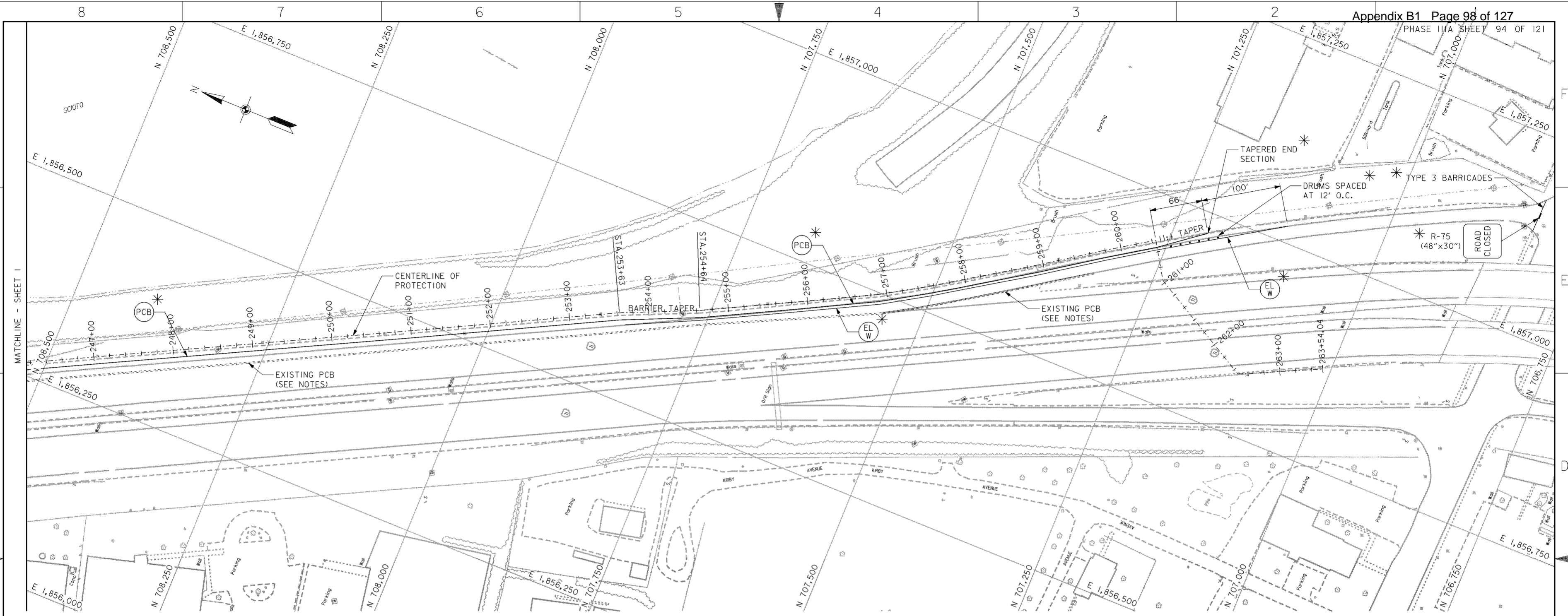


STATION 238+20 TO 253+63

SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved
◇	REV. IN ACCORDANCE WITH AMENDMENT 0001	12/99	P.O.C.

BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: S.THIEKEN	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T.MULLINS	MAINTENANCE OF TRAFFIC (1 OF 2)
Checked by: M.LOVE	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-
	Sheet reference number: 921
	FILENAME: 00h1p101.dgn
	PEN TABLE:
	Sheet 1 of 2



PLAN
 SCALE: 1" = 50'

NOTES

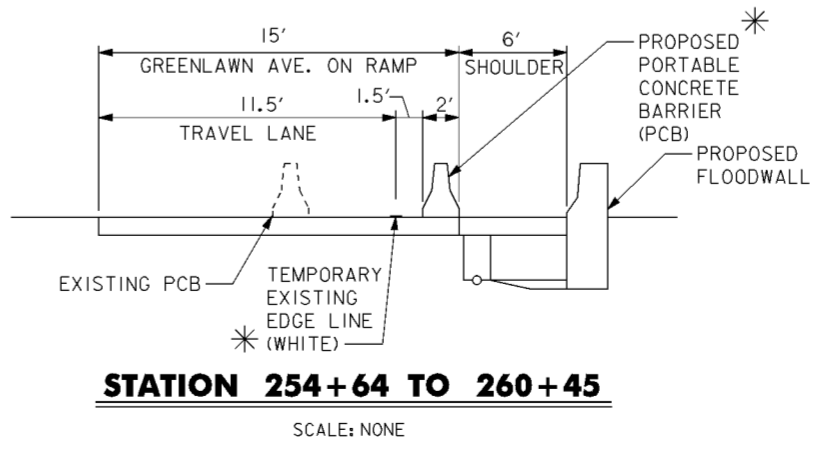
- 1. MAINTENANCE OF TRAFFIC**
 TRAFFIC SHALL BE MAINTAINED PER THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE ODOT SPECIFICATIONS, AS WELL AS THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". THE CONTRACTOR SHALL CONTACT THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 6 AND THE CITY OF COLUMBUS TRAFFIC DIVISION 14 DAYS PRIOR TO BEGINNING THIS WORK.

 ALL LANES OF I-71 SHALL REMAIN OPEN TO TRAFFIC AND I-71 TRAFFIC SHALL NOT BE BLOCKED OR IMPEDED IN ANY WAY DURING THE CONSTRUCTION OF THIS PROJECT. NO CONSTRUCTION ACCESS SHALL BE ALLOWED FROM I-71. THERE SHALL BE NO OPENINGS IN THE PORTABLE CONCRETE BARRIER AT ANY TIME.
- 2. TEMPORARY PAVEMENT MARKINGS**
 THIS ITEM SHALL BE PERFORMED PER THE ODOT "CONSTRUCTION AND MATERIALS SPECIFICATIONS" ITEM 614.
- 3. PORTABLE CONCRETE BARRIERS**
 THIS ITEM SHALL BE PERFORMED PER THE ODOT "CONSTRUCTION AND MATERIALS SPECIFICATIONS" ITEM 622 AND ODOT STANDARD CONSTRUCTION DRAWING RM-4.2M (10-21-97). THE BARRIER SHALL BE DELINEATED AS DESCRIBED IN ODOT STANDARD CONSTRUCTION DRAWING MT-95.40M (4-25-94).
- 4. EXISTING PORTABLE CONCRETE BARRIER**
 THE EXISTING PORTABLE CONCRETE BARRIER IS IN PLACE TO CLOSE THE NORTHBOUND RIGHT LANE OF I-71 AS PART OF THE SPRING-SANDUSKY INTERCHANGE PROJECT. IT IS ANTICIPATED THAT THIS BARRIER WILL BE IN PLACE UNTIL LATE 1999. AS LONG AS THIS BARRIER IS IN PLACE IT SHALL BE UTILIZED AS SHOWN ON THIS PLAN. IF THIS BARRIER IS NOT IN PLACE AT THE BEGINNING OF THIS PROJECT OR IS REMOVED DURING THE CONSTRUCTION OF THIS PROJECT, ADDITIONAL BARRIER, DRUMS, AND STRIPING WILL BE REQUIRED AS SHOWN ON THIS PLAN.

- 5. CLOSURE OF EXISTING GREENLAWN AVE. RAMP TO I-71**
 WORK REQUIRING CLOSURE OF THE ON-RAMP FROM GREENLAWN AVE. TO I-71 SHALL BE PERFORMED SO THAT THE EXISTING CLOSURE (PART OF THE SPRING-SANDUSKY INTERCHANGE PROJECT) MAY BE UTILIZED. IT IS ANTICIPATED THAT THE RAMP CLOSURE AND DETOUR WILL BE IN PLACE UNTIL LATE 1999. IF THE RAMP CLOSURE AND DETOUR FROM THE MENTIONED PROJECT IS NOT IN PLACE, THE CONTRACTOR SHALL CLOSE THE RAMP AND SIGN A DETOUR MATCHING THE CLOSURE AND DETOUR THAT WAS IN PLACE DURING THE SPRING-SANDUSKY INTERCHANGE PROJECT. IF IT IS REQUIRED TO CLOSE THE GREENLAWN AVE. RAMP FOR THIS PROJECT, THE RAMP SHALL NOT BE CLOSED FOR MORE THAN 21 DAYS.

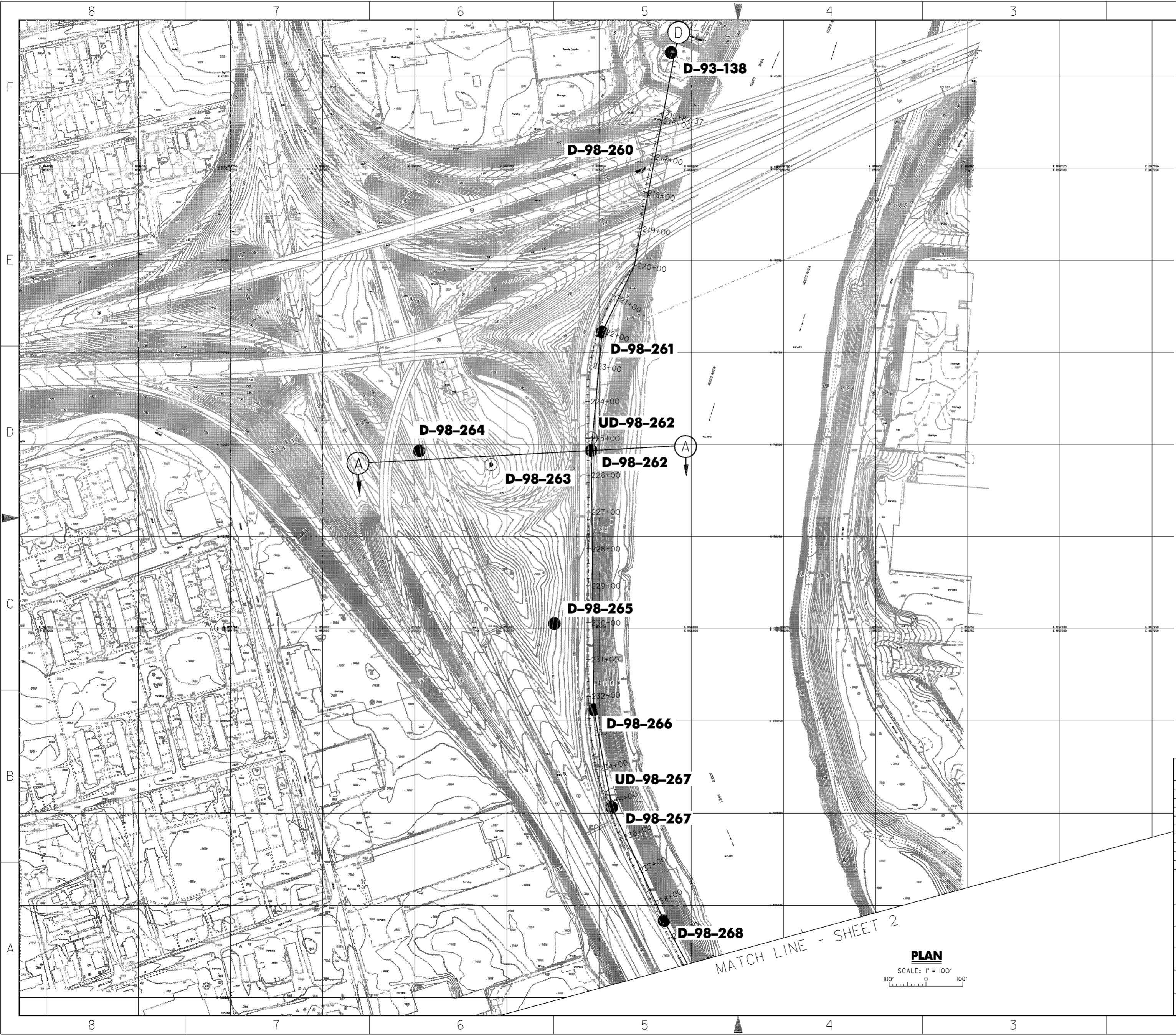
LEGEND

- * THESE ITEMS ONLY TO BE PERFORMED IF EXISTING PCB IS NOT IN PLACE. (SEE NOTES)
- (PCB) PORTABLE CONCRETE BARRIER
- (EL W) TEMPORARY EDGE LINE, WHITE



Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. IN ACCORDANCE WITH AMENDMENT 0001	12/99	P.O.C.

BURGESS & NIPL, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: S.THIEKEN	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T.MULLINS	MAINTENANCE OF TRAFFIC (2 OF 2)
Checked by: M.LOVE	Scale: AS SHOWN
Reviewed by:	Date: OCTOBER 1999
Approved by:	Drawing Code: 16-PWC-12-
Sheet reference number: 922	FILENAME: 00h1p02.dgn
	PIN TABLE:
	Sheet 2 of 2



LEGEND

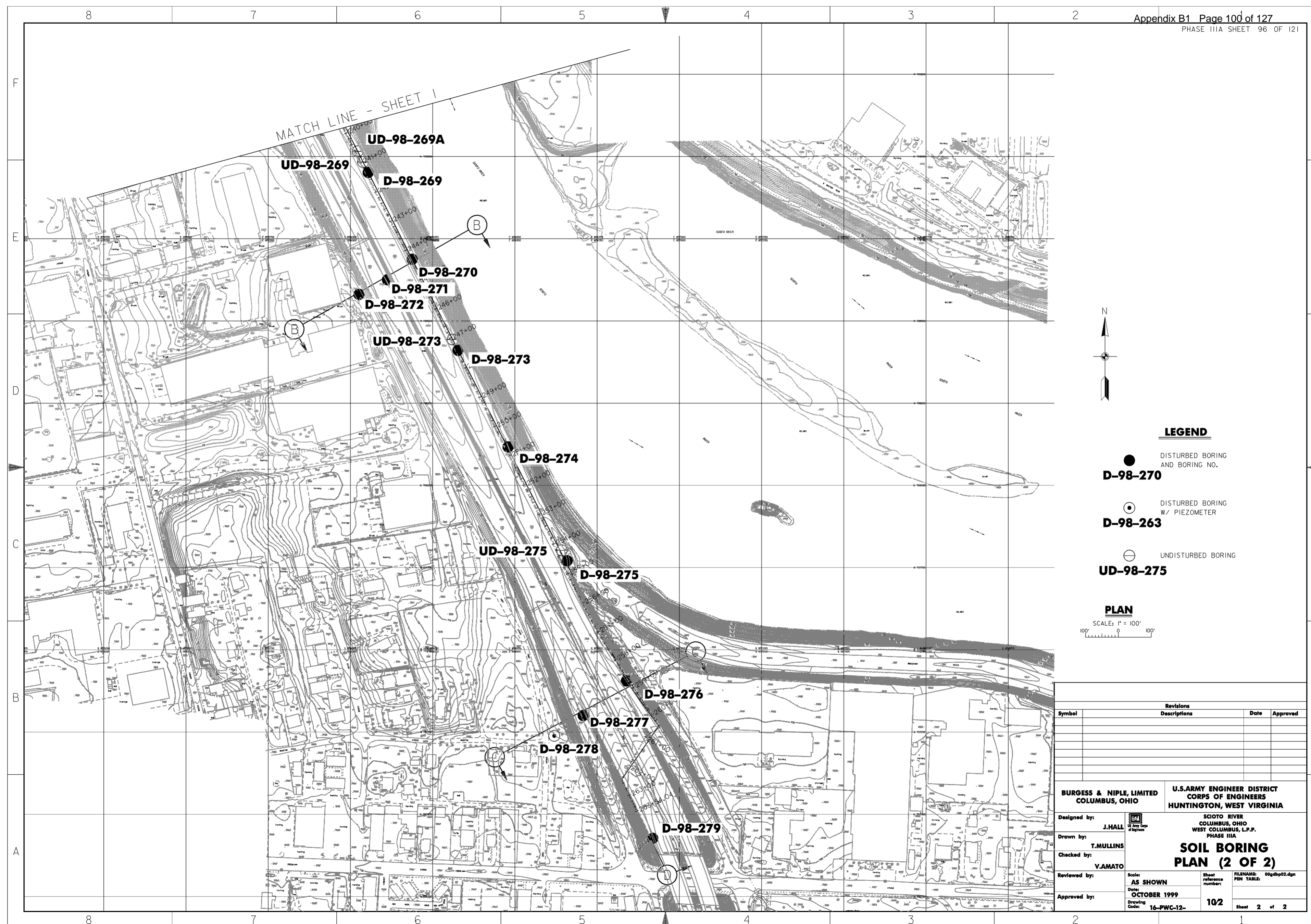
- DISTURBED BORING AND BORING NO.
D-98-270
- ⊙ DISTURBED BORING W/ PIEZOMETER
D-98-263
- ⊖ UNDISTURBED BORING
UD-98-275

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 IIIA SOIL BORING PLAN (1 OF 2)	
Drawn by: T. MULLINS			
Checked by: V. AMATO		Scale: AS SHOWN	Sheet reference number: 10/1
Reviewed by:		Date: OCTOBER 1999	FILENAME: PEN TABLE: 00gdbp01.dgn
Approved by:		Drawing Code: 16-PWC-12-	Sheet 1 of 2

MATCH LINE - SHEET 2

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




LEGEND

- DISTURBED BORING AND BORING NO.
D-98-270
- ⊙ DISTURBED BORING W/ PIEZOMETER
D-98-263
- ⊖ UNDISTURBED BORING
UD-98-275

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

Symbol	Revisions Descriptions	Date	Approved

BURGESS & NIPL, 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 IIIA SOIL BORING PLAN (2 OF 2)	
Drawn by: T. MULLINS			
Checked by: V. AMATO			
Reviewed by:			
Approved by:	Scale: AS SHOWN	Sheet reference number: 102	FILENAME: PEN TABLE: 00gdbp02.dgn
Drawing Code: 16-PWC-12-			Sheet 2 of 2

WORK AS CONSTRUCTED

Table for HOLE NO. D-98-260. Includes core size, batter, direction, date, and detailed log of materials and test results.

Table for HOLE NO. D-98-261. Includes core size, batter, direction, date, and detailed log of materials and test results.

Table for HOLE NO. D-98-262. Includes core size, batter, direction, date, and detailed log of materials and test results.

Table for HOLE NO. D-98-262. Continuation of log. Includes core size, batter, direction, date, and detailed log of materials and test results.

Table for HOLE NO. D-98-263. Includes core size, batter, direction, date, and detailed log of materials and test results.

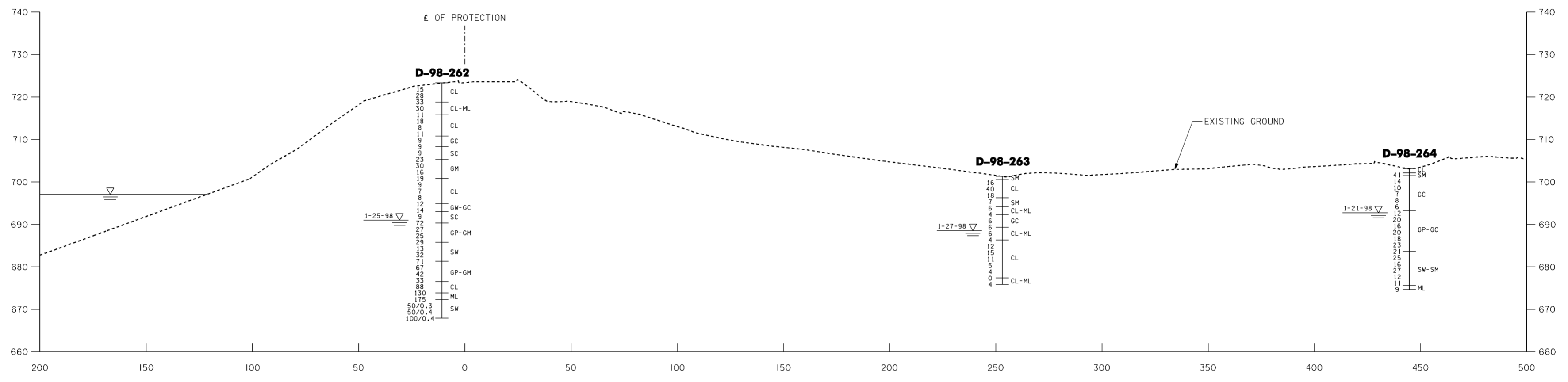
Table for HOLE NO. D-98-264. Includes core size, batter, direction, date, and detailed log of materials and test results.

Table for HOLE NO. D-98-265. Includes core size, batter, direction, date, and detailed log of materials and test results.


Table for HOLE NO. D-98-266. Includes core size, batter, direction, date, and detailed log of materials and test results.

Table for HOLE NO. D-98-267. Includes core size, batter, direction, date, and detailed log of materials and test results.

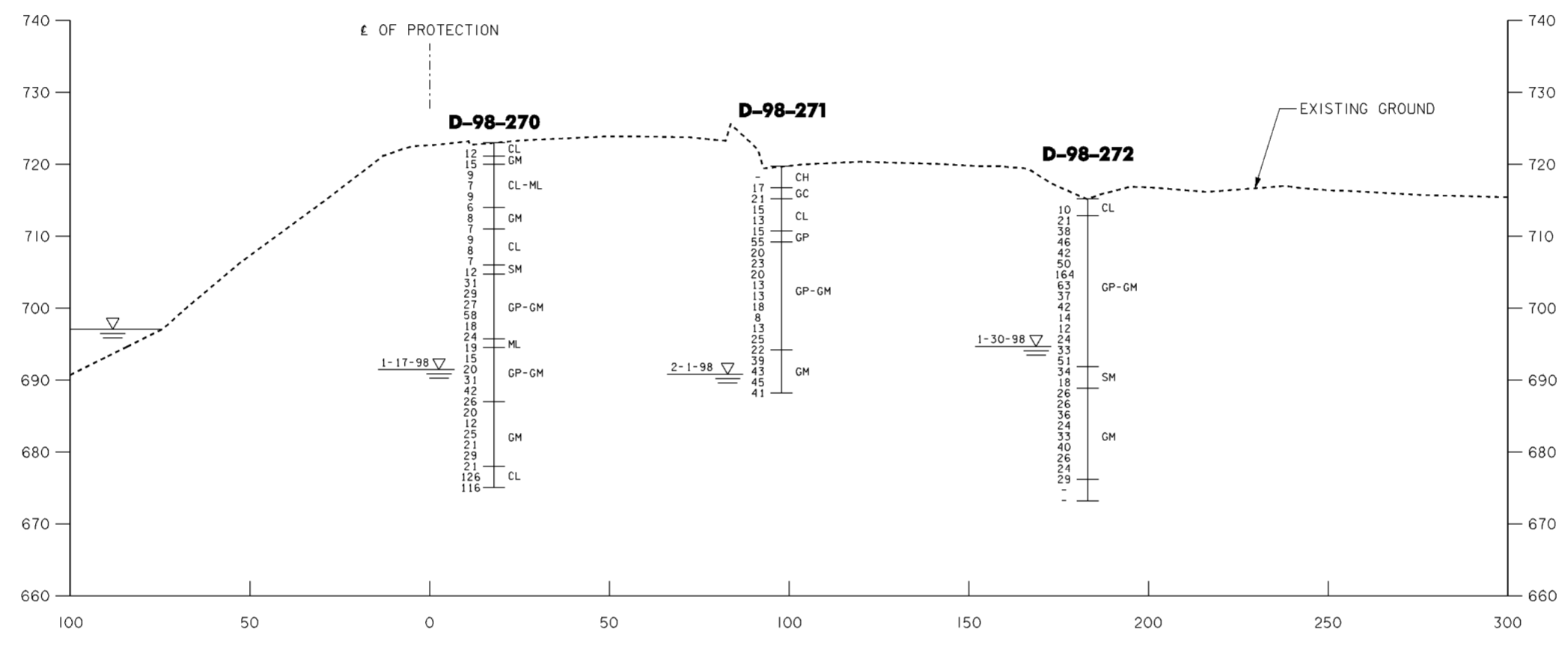
Revisions table and project information including 'BURGESS & NIPL, LIMITED COLUMBUS, OHIO', 'U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA', and 'GRAPHIC LOGS OF BORINGS'.



Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: C. CLARKE	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	
Checked by: J. HALL	
Reviewed by:	
Approved by:	GEOLOGIC SECT A-A STA. 225 + 27
Scale: AS SHOWN	Sheet reference number: 107
Date: OCTOBER 1999	FILENAME: 00gpc01.dgn PIN TABLE:
Drawing Code: 16-PWC-12-	Sheet 1 of 3

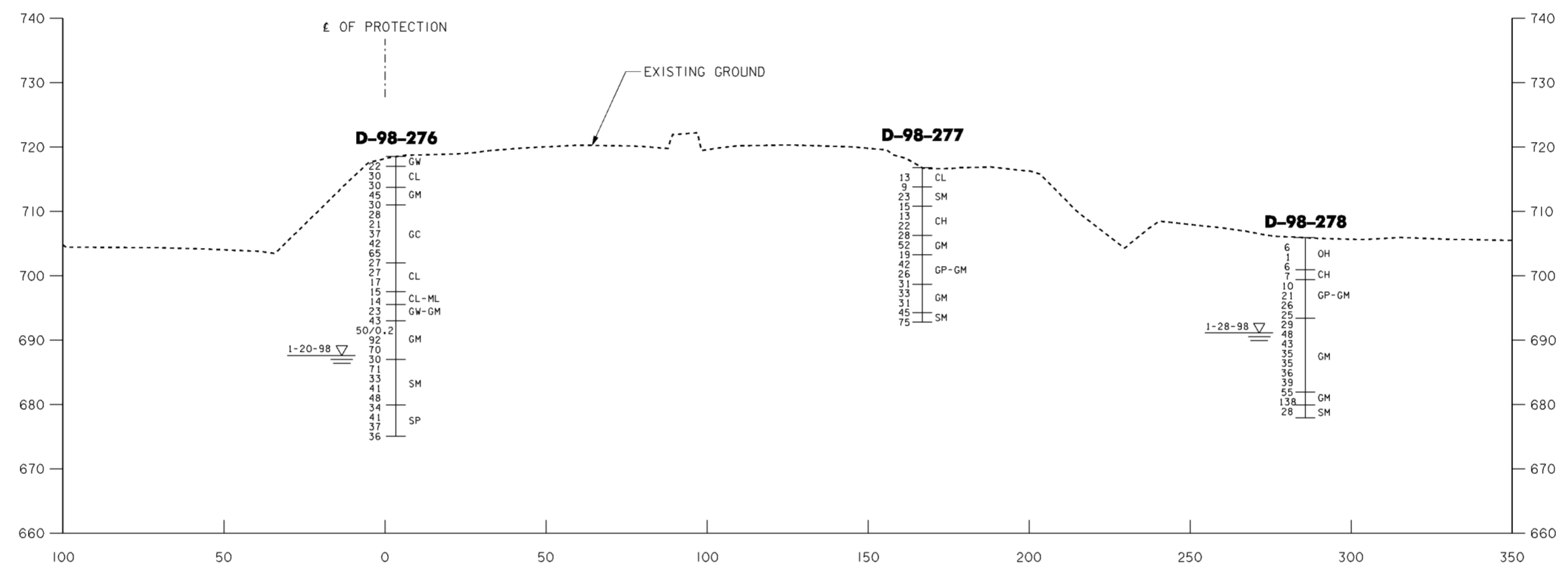
WORK AS CONSTRUCTED



Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: C. CLARKE	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA		
Drawn by: T. MULLINS	GEOLOGIC SECT B-B STA. 244 + 42		
Checked by: J. HALL			
Reviewed by:	Scale: AS SHOWN	Sheet reference number:	FILENAME: 00gpc02.dgn
Approved by:	Date: OCTOBER 1999	108	PIN TABLE:
	Drawing Code: 16-PWC-12-		Sheet 2 of 3

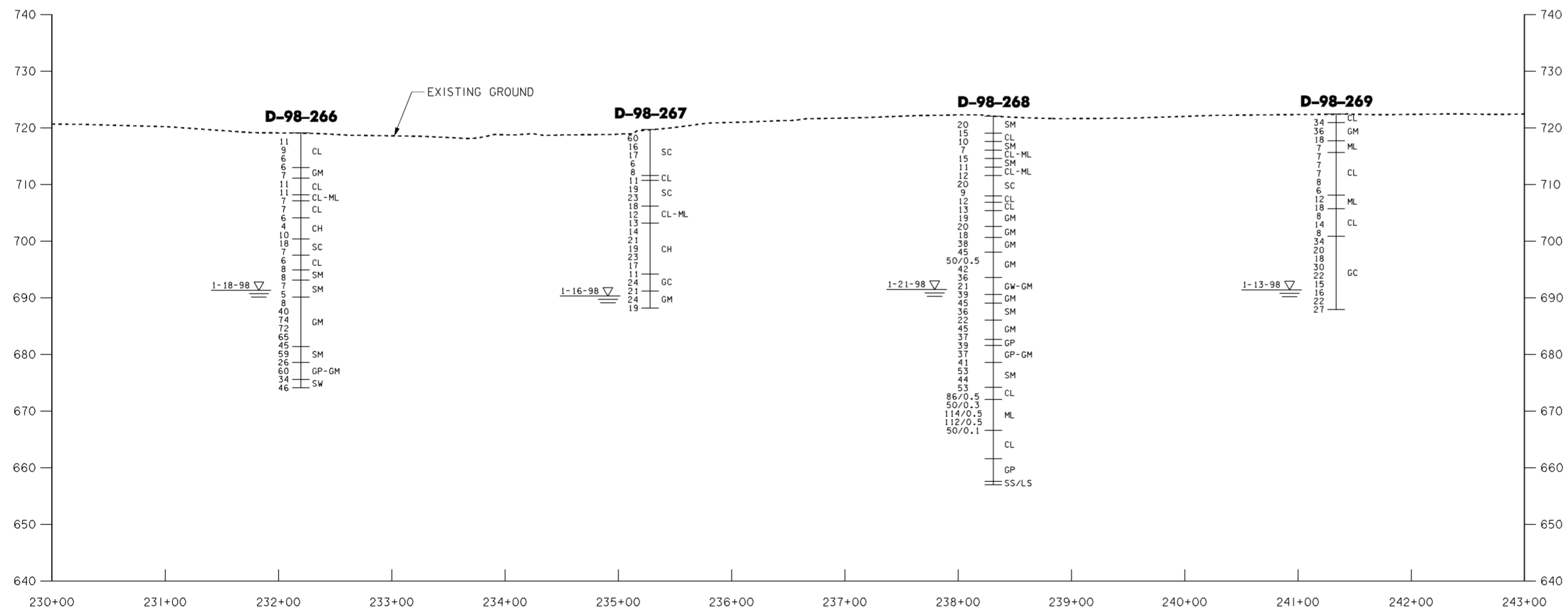
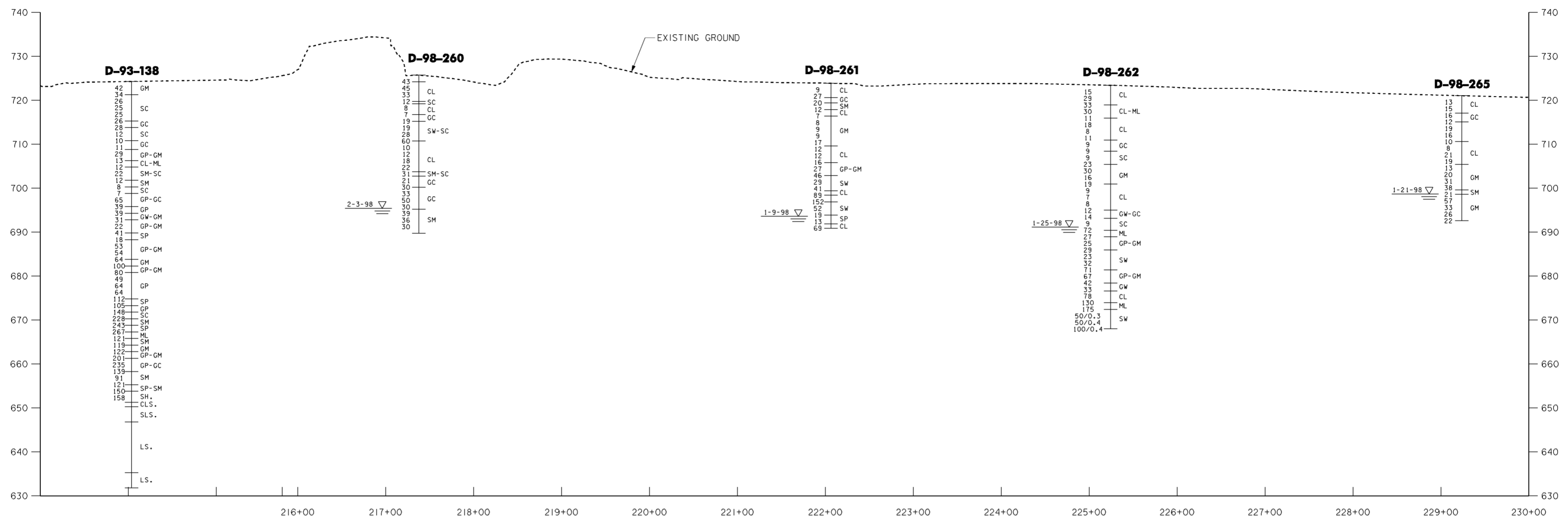
WORK AS CONSTRUCTED



Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: C. CLARKE	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Drawn by: T. MULLINS	GEOLOGIC SECT C-C
Checked by: J. HALL	STA. 258 + 92
Reviewed by:	Scale: AS SHOWN
Approved by:	Date: OCTOBER 1999
	Drawing Code: 16-PWC-12-
	Sheet reference number: 10/9
	FILENAME: 00gpc03.dgn PIN TABLE: Sheet 3 of 3

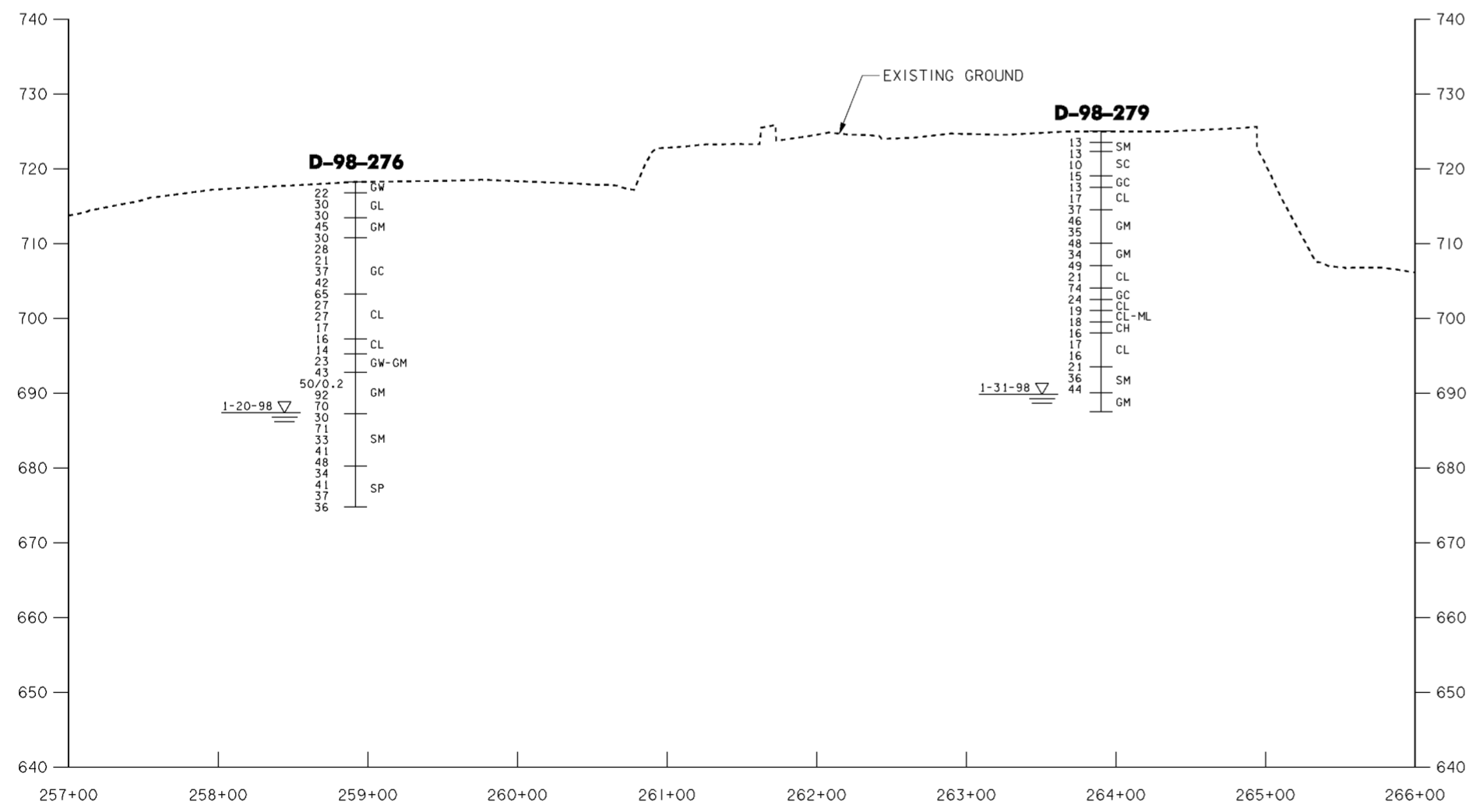
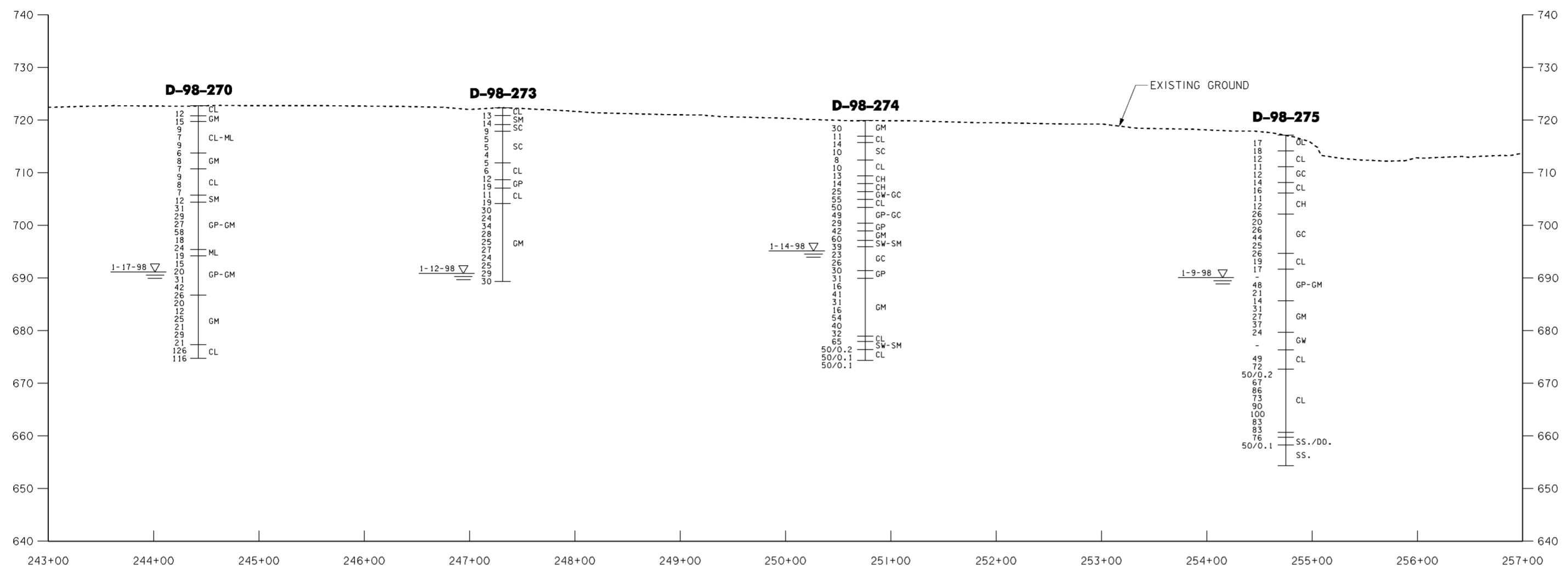
WORK AS CONSTRUCTED



Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		GEOLOGIC PROFILE SECTION D-D	
Designed by: C. CLARKE		Scale: AS SHOWN	Sheet reference number: 10/10
Drawn by: T. MULLINS		Date: OCTOBER 1999	FILENAME: 00gpr01.dgn
Checked by: J. HALL	Reviewed by: AS SHOWN	Drawing Code: 16-PWC-12-	Sheet 1 of 2
Approved by:	Approved by:	Approved by:	Approved by:

WORK AS CONSTRUCTED



Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA
Designed by: C. CLARKE	GEOLOGIC PROFILE SECTION D-D	
Drawn by: T. MULLINS		
Checked by: J. HALL		
Reviewed by: Scale: AS SHOWN Date: OCTOBER 1999 Drawing Code: 16-PWC-12-		
Approved by:	Sheet reference number: 10/11	FILENAME: 00gppr02.dgn PEN TABLE: Sheet 2 of 2




GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS DSGT GAGE FOR THE PERIOD 1921-1991
 GAGE DATUM 810.4 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.  SCIO TO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

DRAWN BY: J.R.B. **HYDROLOGY**

CHECKED BY: K.C.H. **STAGE HYDROGRAPHS**

REVIEWED BY: **NONE**

APPROVED BY: **OCTOBER 1999**

SCALE: **NONE**

DATE: **OCTOBER 1999**

DRAWING CODE: **16-PWC-12-**

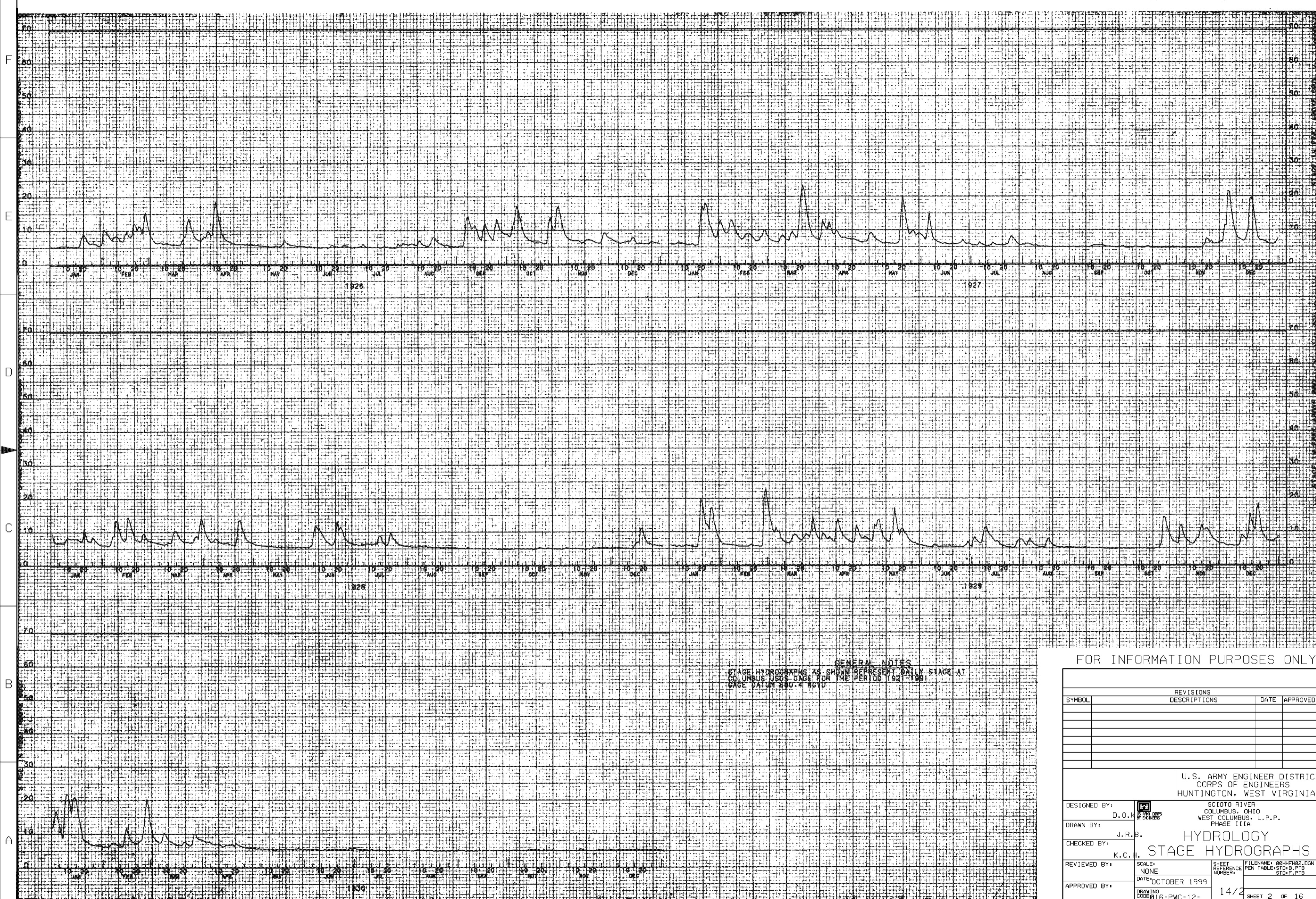
SHEET REFERENCE NUMBER: **14/1**

FILENAME: **004HF01.DGN**

STATION: **ST01B.PTB**

STATION: **ST01F.PTB**

SHEET 1 OF 16



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1926-1930
 GAGE DATUM 840.4 NGVD

FOR INFORMATION PURPOSES ONLY

SYMBOL	REVISIONS		DATE	APPROVED
	DESCRIPTIONS			

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

DESIGNED BY: D.O.K.
 DRAWN BY: J.R.B.
 CHECKED BY: K.C.H.
 REVIEWED BY: []
 APPROVED BY: []

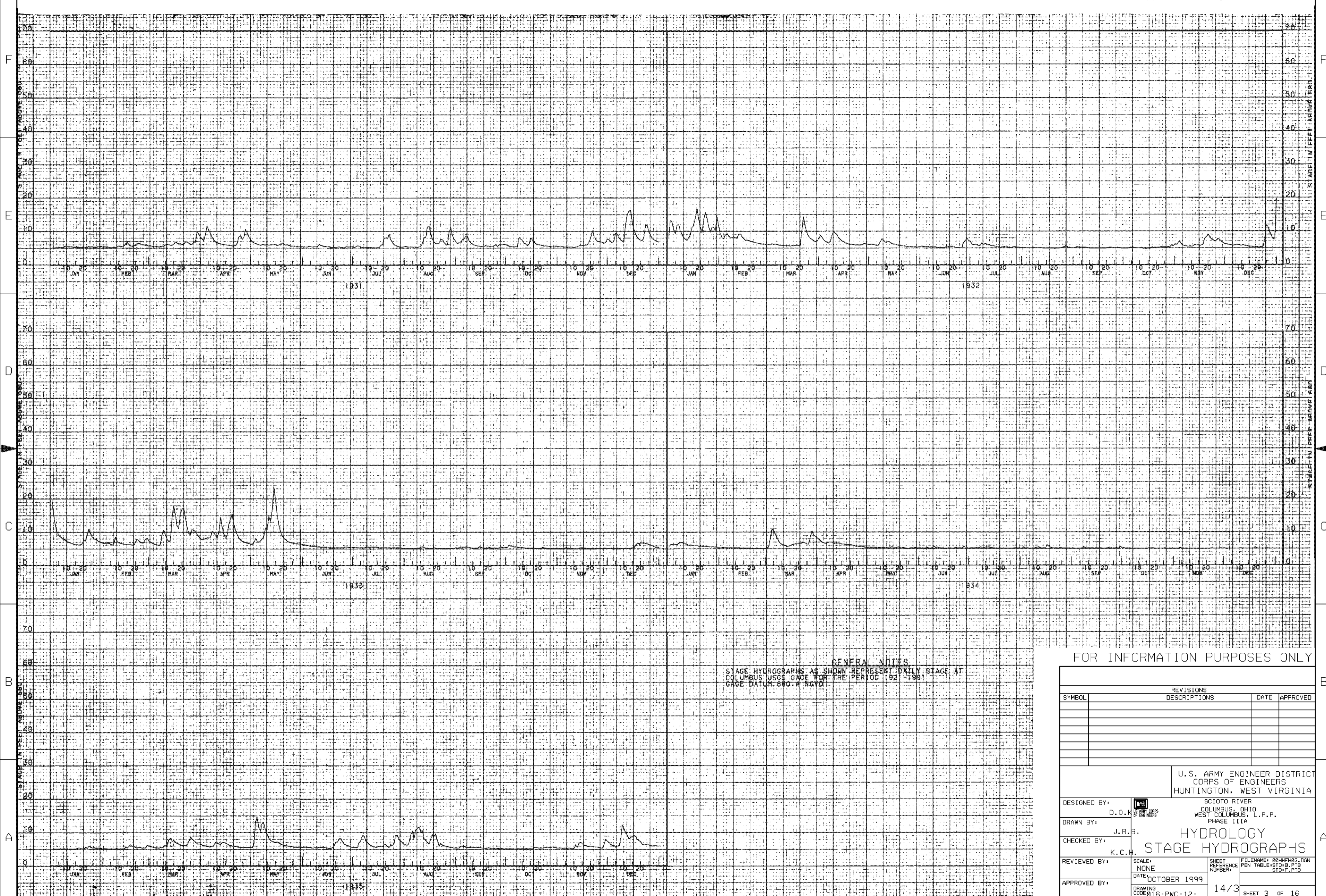
SCOTO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

HYDROLOGY
 STAGE HYDROGRAPHS

SCALE: NONE
 DATE: OCTOBER 1999
 DRAWING CODE: 16-PWC-12-

SHEET REFERENCE NUMBER: 14/2
 FILENAME: 004HFH02.DGN
 PEN TABLE: STD.B.PTB
 STD.F.PTB

SHEET 2 OF 16



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1922-1999
 GAGE DATUM 880-A NGVD

FOR INFORMATION PURPOSES ONLY

SYMBOL	REVISIONS		DATE	APPROVED
	DESCRIPTIONS			

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

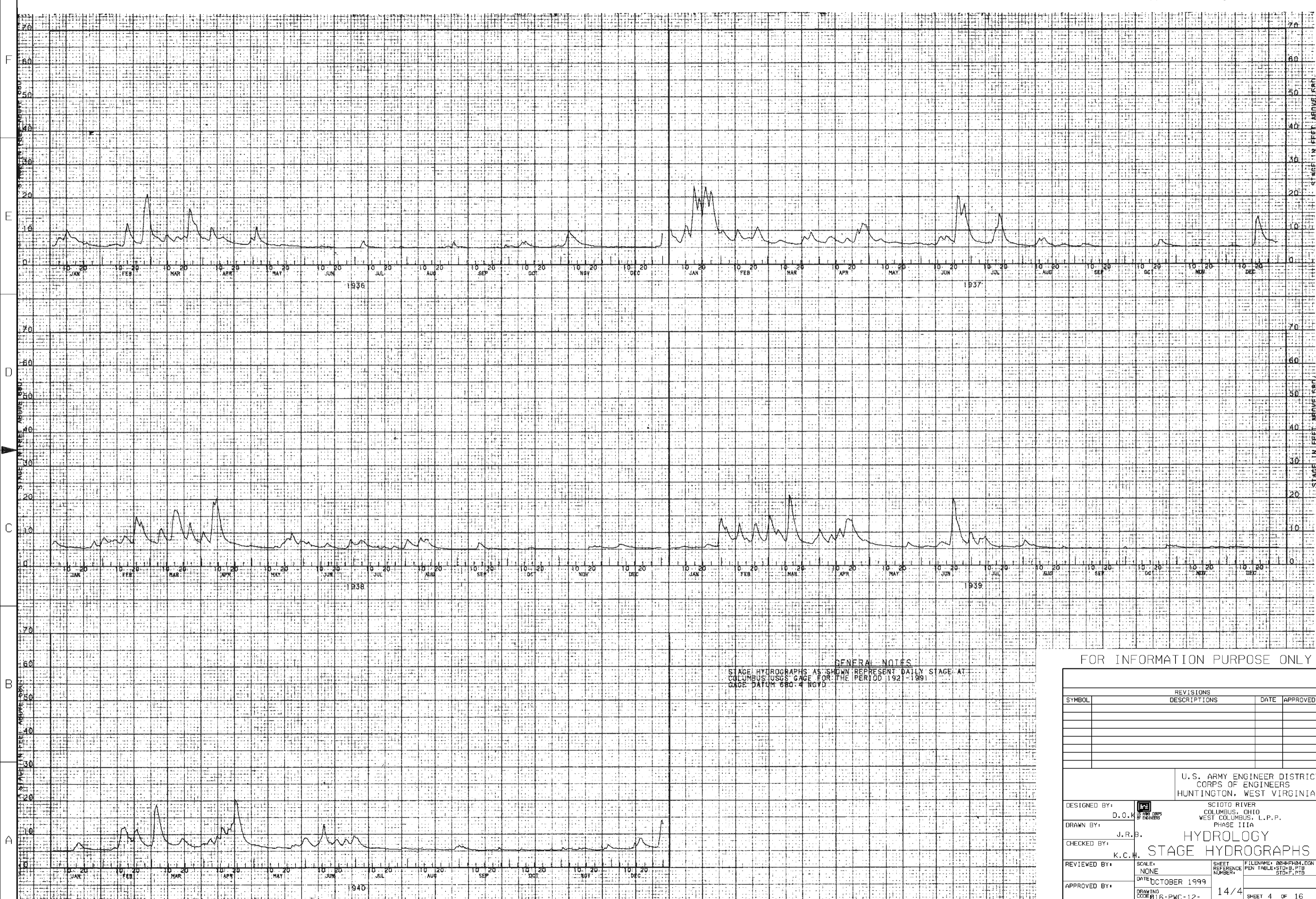
SCOTO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

HYDROLOGY
STAGE HYDROGRAPHS

DESIGNED BY: D.O.K.
 DRAWN BY: J.R.B.
 CHECKED BY: K.C.H.
 REVIEWED BY:
 APPROVED BY:

SCALE: NONE
 DATE: OCTOBER 1999
 DRAWING CODE: 16-PWC-12-

SHEET REFERENCE NUMBER: 14/3
 FILENAME: 004HF03.DGN
 PEN TABLE: STD.B.PTB
 STD.F.PTB
 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

SYMBOL	REVISIONS		DATE	APPROVED
	DESCRIPTIONS			

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

DESIGNED BY: D.O.K.

DRAWN BY: J.R.B.

CHECKED BY: K.C.H.

REVIEWED BY:

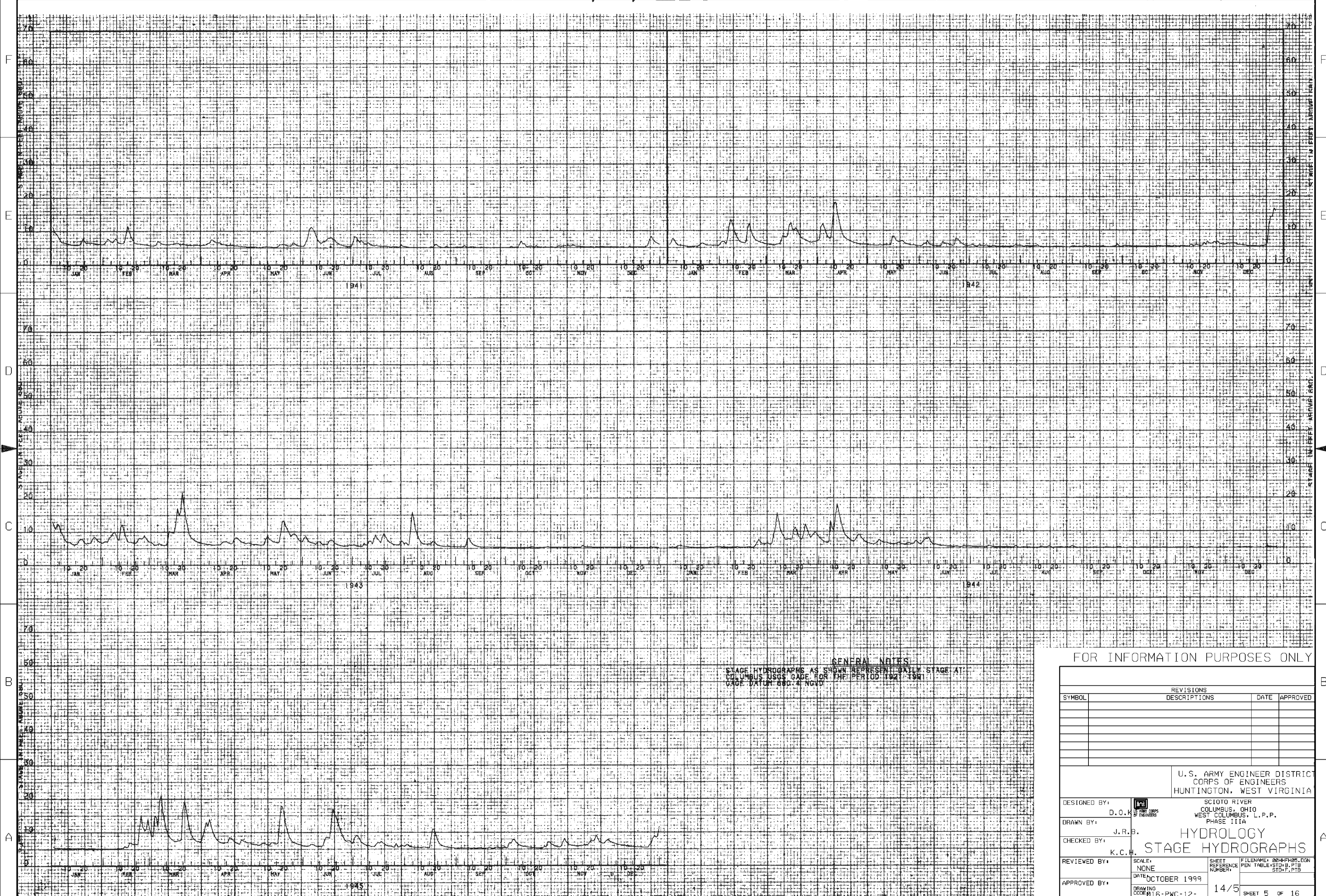
APPROVED BY:

SCIO TO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA
 HYDROLOGY
 STAGE HYDROGRAPHS

SCALE: NONE
 DATE: OCTOBER 1999
 DRAWING CODE: 16-PWC-12-

SHEET REFERENCE NUMBER: 14/4
 FILENAME: 004HFH04.DGN
 PEN TABLE: STD.B.PTB
 STD.F.PTB

SHEET 4 OF 16




GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1941-1945
 GAGE DATUM 880.4 NGVD

FOR INFORMATION PURPOSES ONLY

SYMBOL	REVISIONS		DATE	APPROVED
	DESCRIPTIONS			

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

DESIGNED BY: D.O.K. 

DRAWN BY: J.R.B.

CHECKED BY: K.C.H.

REVIEWED BY:

APPROVED BY:

SCIO TO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

HYDROLOGY
STAGE HYDROGRAPHS

SCALE: NONE
 DATE: OCTOBER 1999
 DRAWING CODE: 16-PWC-12-

SHEET REFERENCE NUMBER: 14/5
 FILENAME: 004HFD05.DGN
 PEN TABLE: STD.B.PTB
 STD.F.PTB

SHEET 5 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

SYMBOL	REVISIONS		DATE	APPROVED
	DESCRIPTIONS			

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

DESIGNED BY: D.O.K.

DRAWN BY: J.R.B.

CHECKED BY: K.C.W.

REVIEWED BY:

APPROVED BY:

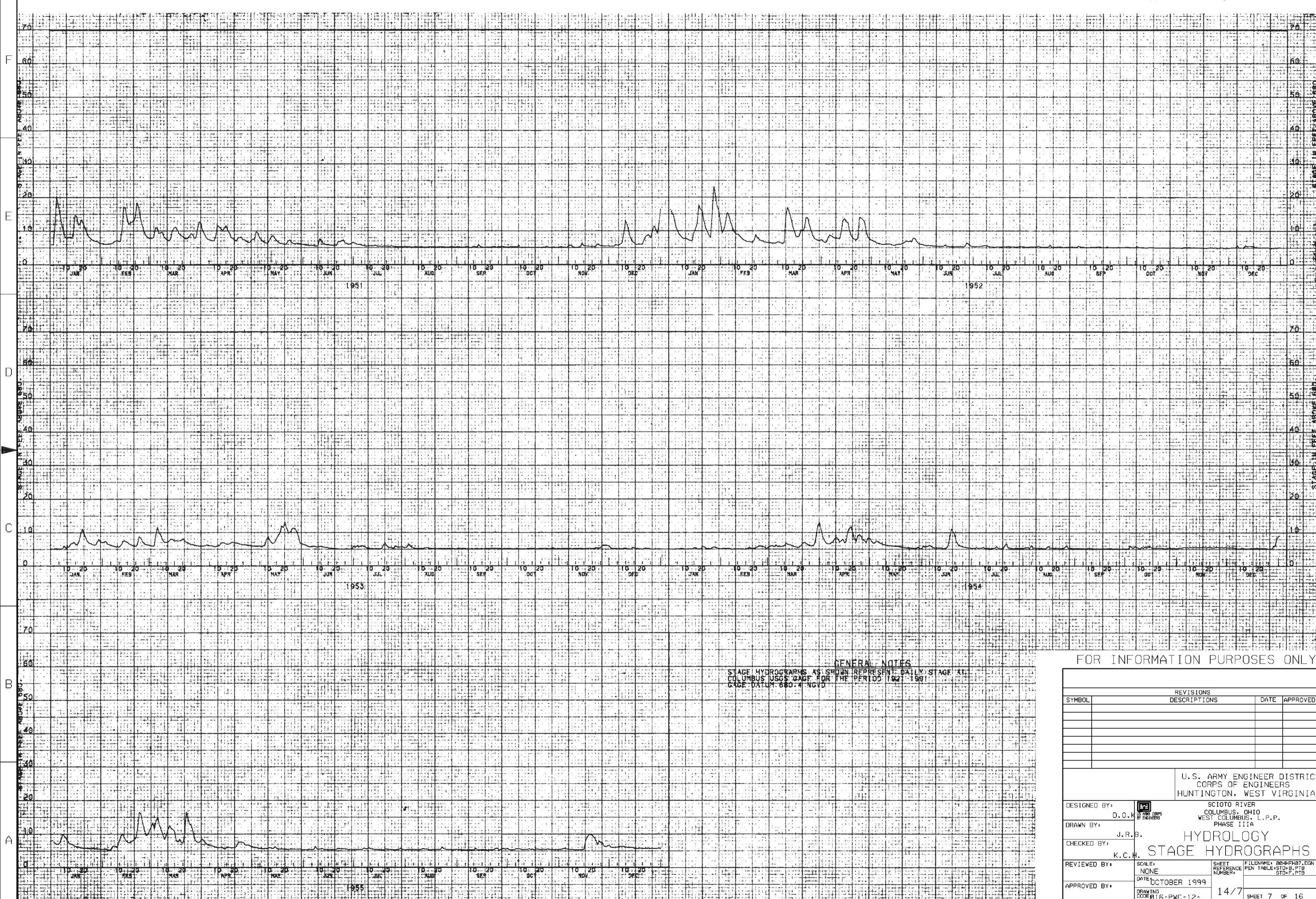
SCIO TO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

**HYDROLOGY
 STAGE HYDROGRAPHS**

SCALE: NONE
 DATE: OCTOBER 1999

SHEET REFERENCE NUMBER: 14/6
 FILENAME: 004HF06.DGN
 PEN TABLE: STD.B.PTB
 STD.F.PTB

DRAWING CODE: 16-PWC-12-14/6
 SHEET 6 OF 16



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1951-1955
 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: J.R.B.
 CHECKED BY: K.C.H.
 REVIEWED BY:
 APPROVED BY:

SCOTO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

HYDROLOGY
STAGE HYDROGRAPHS

SCALE: NONE
 DATE: OCTOBER 1999
 DRAWING CODE: 16-PWC-12-

SHEET REFERENCE NUMBER: 14/7
 FILENAME: 004HFH07.DGN
 PEN TABLE: STD.B.PTB
 STD.F.PTB
 SHEET 7 OF 16



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1956-1960
 GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

SYMBOL	REVISIONS		DATE	APPROVED
	DESCRIPTIONS			

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

DESIGNED BY: D.O.K.

DRAWN BY: J.R.B.

CHECKED BY: K.C.H.

REVIEWED BY:

APPROVED BY:

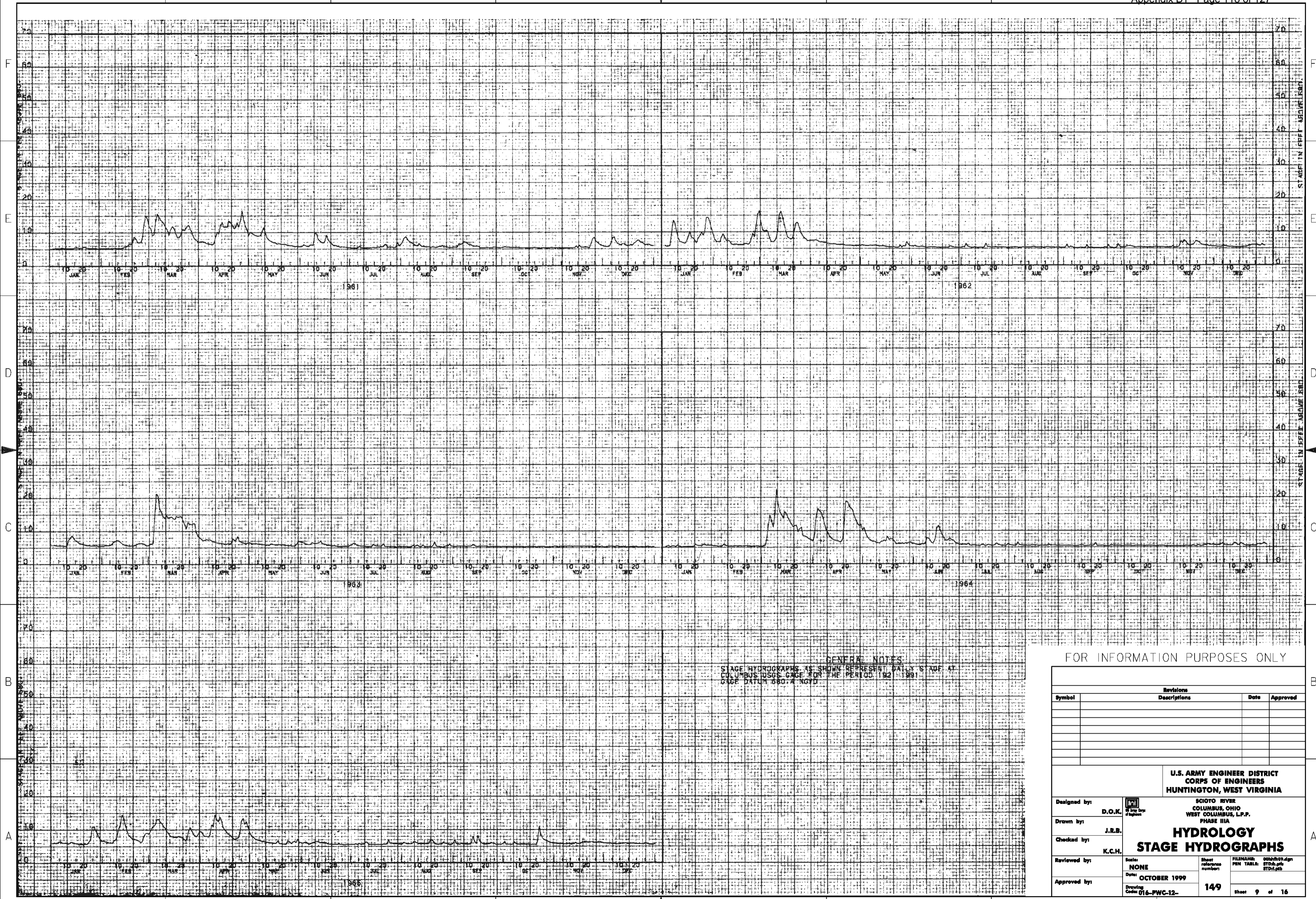
SCOTO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

HYDROLOGY
STAGE HYDROGRAPHS

SCALE: NONE
 DATE: OCTOBER 1999

SHEET REFERENCE NUMBER: 14/8
 FILENAME: 004HF08.DGN
 PEN TABLE: STD.B.PTB
 STD.F.PTB

DRAWING CODE: 16-PWC-12-14/8
 SHEET 8 OF 16



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1961-1991
 GAGE DATUM 580.4 NGVD

FOR INFORMATION PURPOSES ONLY

Symbol	Revisions Descriptions	Date	Approved

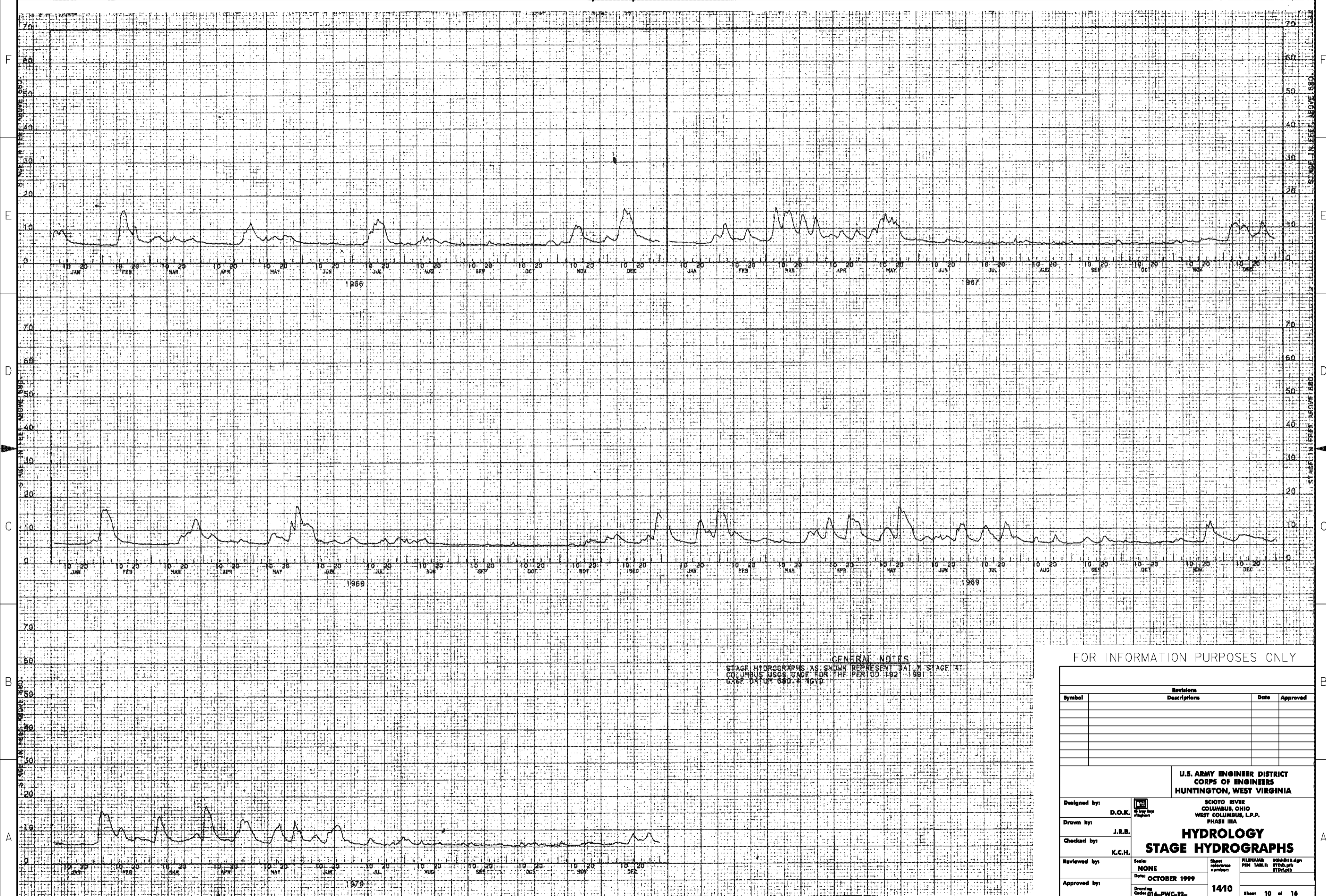
**U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 HUNTINGTON, WEST VIRGINIA**

SCIO TO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

**HYDROLOGY
 STAGE HYDROGRAPHS**

Designed by: D.O.K.		Scale: NONE	Sheet reference number: 149	FILENAME: 00011109.dgn
Drawn by: J.R.B.		Date: OCTOBER 1999	PEN TABLE: STD01.tbl	
Checked by: K.C.H.				
Reviewed by:				
Approved by:				

Drawing Code: 016-PWC-12- Sheet 9 of 16



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1962-1981
 GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Symbol	Revisions		Date	Approved
	Descriptions			

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

SCIO TO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

**HYDROLOGY
 STAGE HYDROGRAPHS**

Designed by: D.O.K.		Scale: NONE	Sheet reference number: 14/10	FILENAME: 000h110.dgn
Drawn by: J.R.B.		Date: OCTOBER 1999	Sheet reference number: 14/10	PEN TABLE: STD0.tbl STD1.tbl
Checked by: K.C.H.				
Reviewed by:				
Approved by:				

Drawing Code: 016-PWC-12-14/10 Sheet 10 of 16

WORK AS CONSTRUCTED



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991
 GAGE DATUM 880.4 NGVD

FOR INFORMATION PURPOSES ONLY

Symbol	Revisions Descriptions	Date	Approved

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

Designed by: **D.O.K.**
 Drawn by: **J.R.B.**
 Checked by: **K.C.H.**
 Reviewed by: **NONE**
 Approved by: **OCTOBER 1999**

**SCIO TO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA**

**HYDROLOGY
 STAGE HYDROGRAPHS**

Scale: **NONE**
 Date: **OCTOBER 1999**
 Drawing Code: **016-PWC-12-**

Sheet reference number: **1411**
 FILENAME: 000411.dgn
 PEN TABLE: STD0.tbl
 STD1.tbl

Sheet 11 of 16



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1977-1991.
 GAGE DATUM 880.4 NGVD

FOR INFORMATION PURPOSES ONLY

Symbol	Revisions		Date	Approved
	Descriptions			

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

SCOTO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

**HYDROLOGY
 STAGE HYDROGRAPHS**

Designed by: D.O.K.		Sheet reference number: NONE	FILENAME: 000h112.dgn
Drawn by: J.R.B.			
Checked by: K.C.H.	Date: OCTOBER 1999	PEN TABLE: STD0.tbl STD1.tbl	Sheet 12 of 16
Reviewed by:	Drawing Code: 016-PWC-12-		
Approved by:			



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991.
 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**

SCOTO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

**HYDROLOGY
 STAGE HYDROGRAPHS**

Designed by: D.O.K.		Sheet reference number: NONE	FILENAME: 000h113.dgn PEN TABLE: STD0.tbl STD1.tbl
Drawn by: J.R.B.			
Checked by: K.C.H.	Date: OCTOBER 1999	1413	Sheet 13 of 16
Reviewed by:	Drawing Code: 016-PWC-12-		
Approved by:			



GENERAL NOTES
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT
 COLUMBUS JUSTICE FOR THE PERIODS: 1987-1989
 GAGE DATUM 800.2 NGVD

FOR INFORMATION PURPOSES ONLY

Symbol	Revisions		Date	Approved
	Descriptions			

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

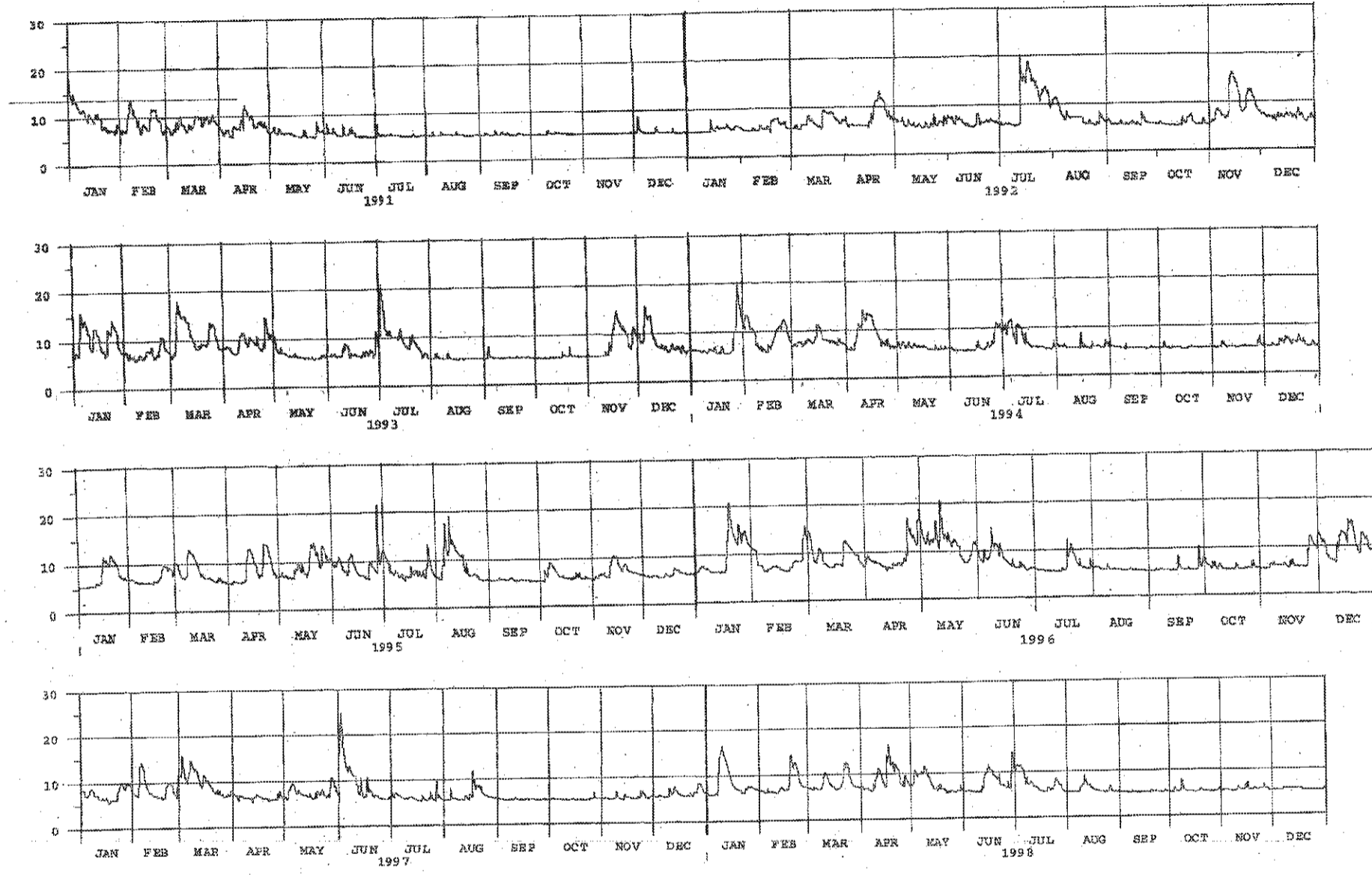
SCOTO RIVER
 COLUMBUS, OHIO
 WEST COLUMBUS, L.P.P.
 PHASE IIIA

**HYDROLOGY
 STAGE HYDROGRAPHS**

Designed by: D.O.K.		Sheet reference number: NONE	FILENAME: 00N0114.dgn PEN TABLE: STD01.tbl STD01.tbl
Drawn by: J.R.B.		Date: OCTOBER 1999	
Checked by: K.C.H.			
Reviewed by:			
Approved by:			

Drawing Code: **016-PWC-12-** **1414** Sheet 14 of 16

STAGE IN FEET ABOVE 680.4



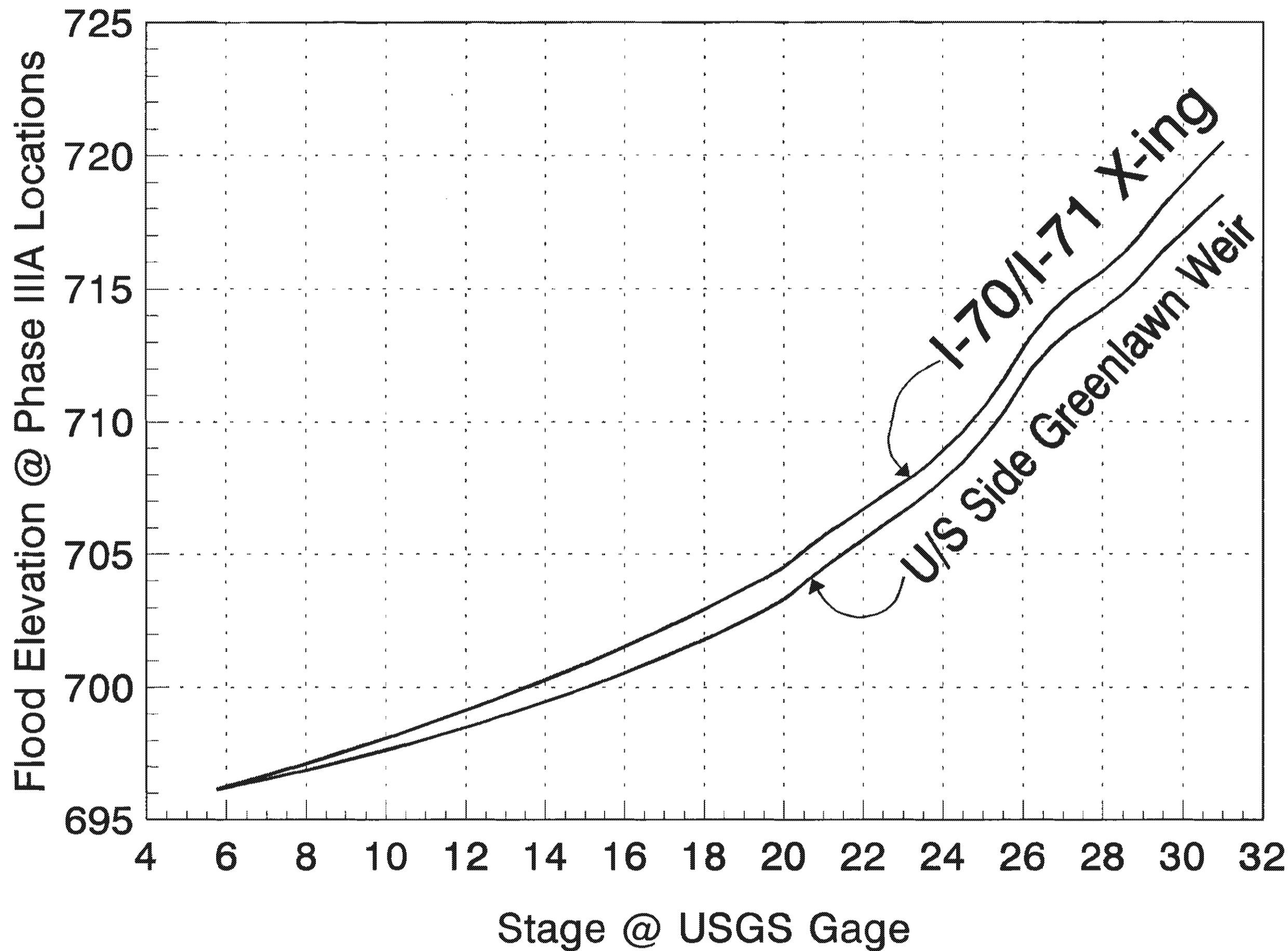
NOTES

STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT COLUMBUS USGS GAGE FOR THE PERIOD 1921-1998 GAGE DATUM 680.4 NGVD.
 PLOTS OBTAINED FROM SCANNED IMAGES OF CELRH-EC-WW 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			
Designed by:	V.L.P.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA HYDROLOGY STAGE HYDROGRAPHS	
Drawn by:	J.R.B.		
Checked by:	K.C.H.		
Reviewed by:			
Approved by:		Scale: NONE Date: OCTOBER 1999 Drawing Code: 016-PWC-12-	Sheet reference numbers: 1415 Sheet 15 of 16

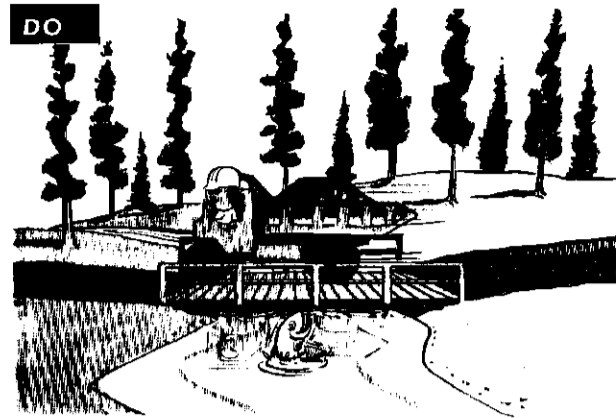


Correlation from USGS Gage to Greenlawn Weir & Vicinity (Phase IIIA)

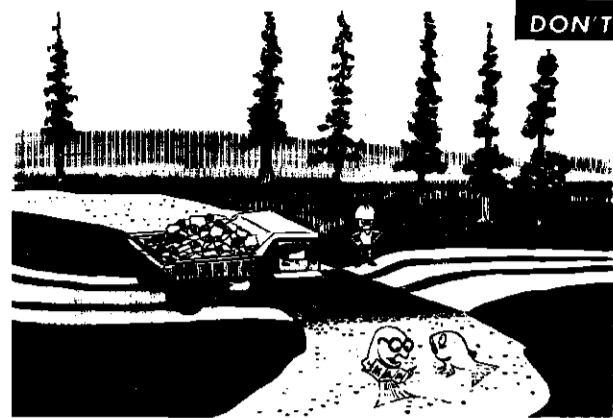
FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: K.C.H.	SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA HYDROLOGY CORRELATION CURVE	Reviewed by: NONE	Sheet reference number: 1416
Drawn by: J.R.B.		Date: OCTOBER 1999	FILENAME: 00N016.dgn PEN TABLE: STD0.tbl STD1.tbl
Checked by: C.W.M.		Drawing Code: 016-PWC-12-	Sheet 16 of 16
Approved by:		1416	Sheet 16 of 16



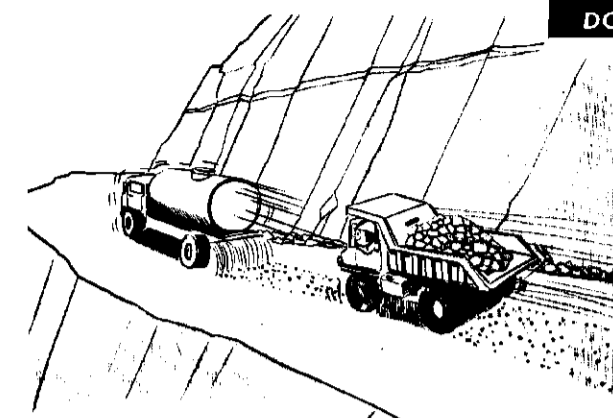
DO
EPM No. 20.—Where frequent stream crossings are necessary, temporary culverts or bridges shall be provided.



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.



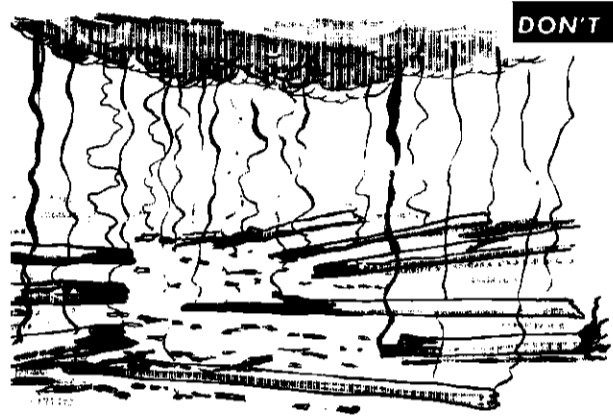
DON'T
EPM No. 22.—The Contractor shall maintain all excavations, embankments, stockpiles, roads, plant sites, waste areas, borrow areas, and all other work areas within or without the project boundaries free from dust which would cause a hazard or nuisance to others.



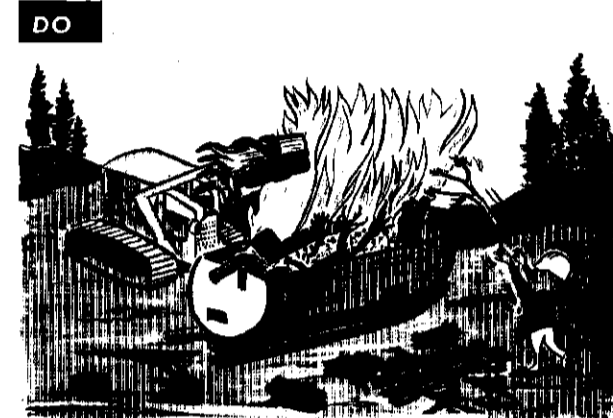
DO
EPM No. 23.—Approved temporary methods of stabilization consisting of sprinkling, chemical treatment, light bituminous treatment or equal methods shall be provided to control dust.



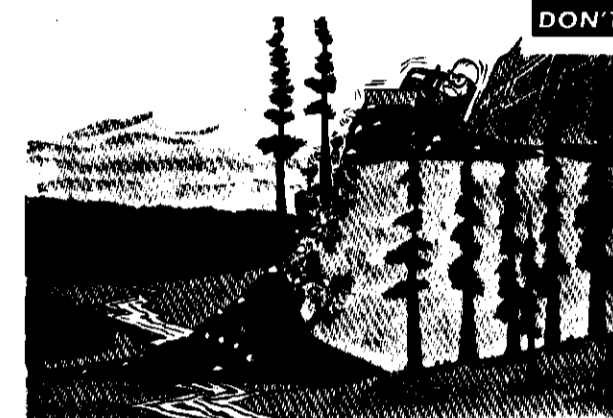
DO
EPM No. 24.—Except as restricted by the Fire Control Officer, burning shall assure continuous, rapid and complete combustion. To meet this requirement, burning piles shall be kept under constant attendance by heavy equipment and operators who shall stack or push in burning piles from the edges, or shall feed fire with additional combustibles.



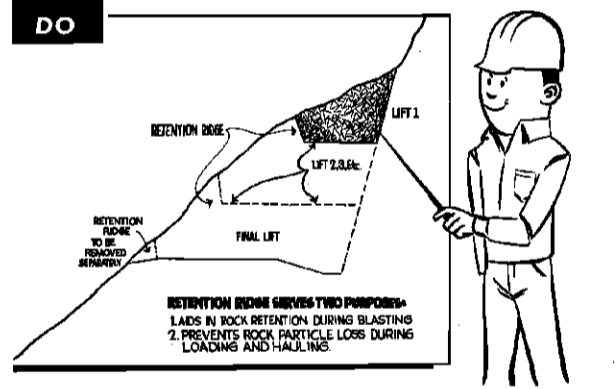
DON'T
EPM No. 25.—Burn piles and individual pieces of burned material shall not be allowed to smolder.



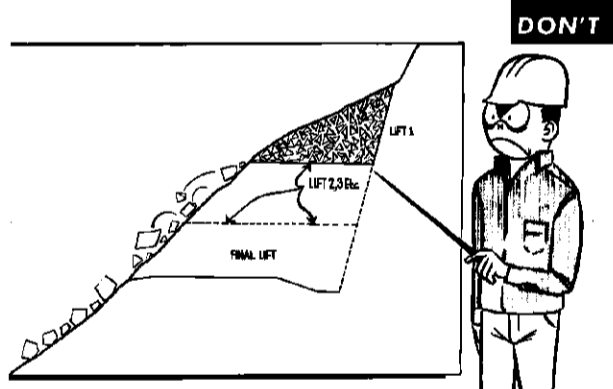
DO
EPM No. 26.—High heat burning shall be done in burning boxes, portable incinerators, open pits or trenches.



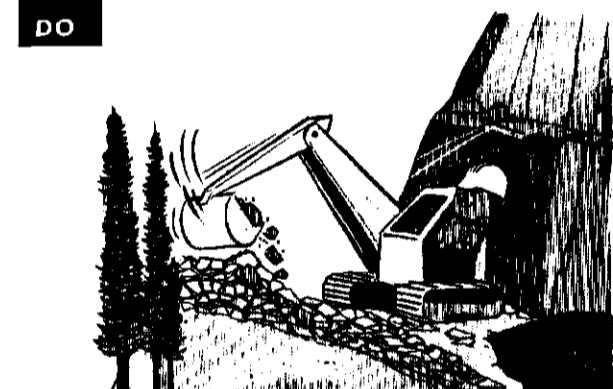
DON'T
EPM No. 27.—Waste materials shall not be dumped on slopes.



DO
EPM No. 28.—The pattern of drilling and the depth, size and loading of holes along the outer edge of bench cut 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. 29.—The pattern of drilling and the depth, size and loading of holes along the outer edge of bench cut 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.)



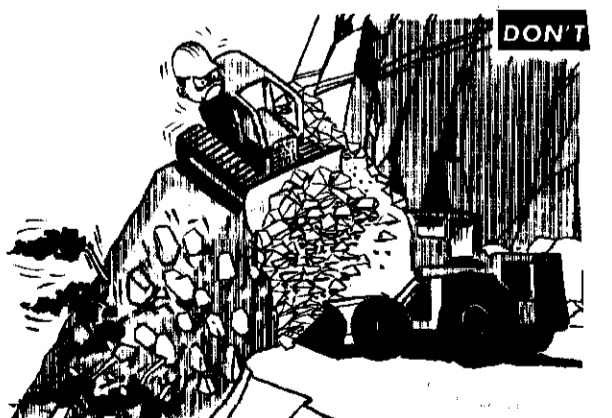
DO
EPM No. 30.—Excavation of blasted material shall be conducted in such a manner that operation of excavation equipment does not contribute to loss of material down the slope.



DON'T
EPM No. 31.—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.



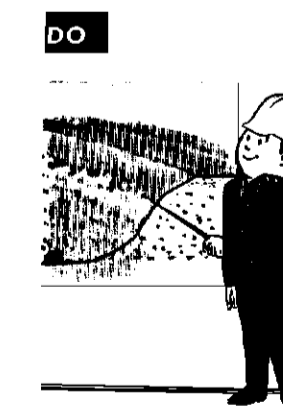
DON'T
EPM No. 30.—Full U-blades shall be used on dozers excavating on slopes. (See DO for proper procedure.)



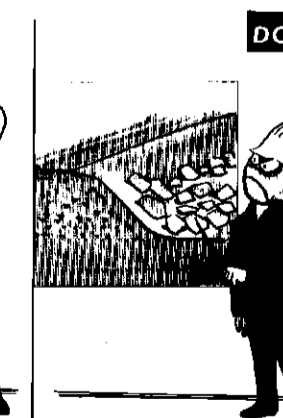
DON'T
EPM No. 31.—In other than solid rock, the tops of excavated slopes shall be rounded off as shown on the contract drawings.



DO



DO



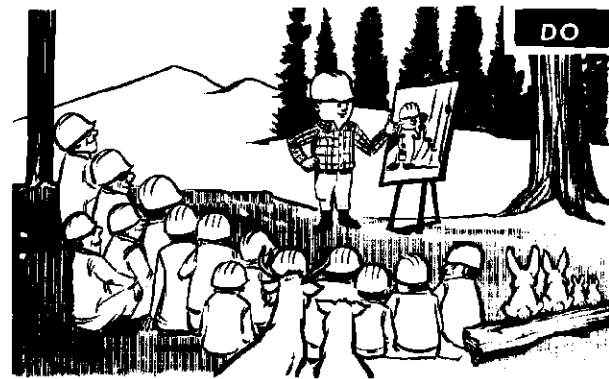
DON'T

EPM No. 32.—Loose rocks, cobbles and boulders falling outside the defined 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 CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	 ENVIRONMENTAL PROTECTION MEASURES		
Drawn by:			
Checked by:			
Reviewed by:			
Approved by:			
Scale:	NONE	Sheet reference number:	Z2 107/1
Date:	OCTOBER 1999	FILENAME:	SCDC00envd01.dgn
Drawing Code:		PEN TABLE:	STD1.plt STD2.plt
		Sheet	1 of 2



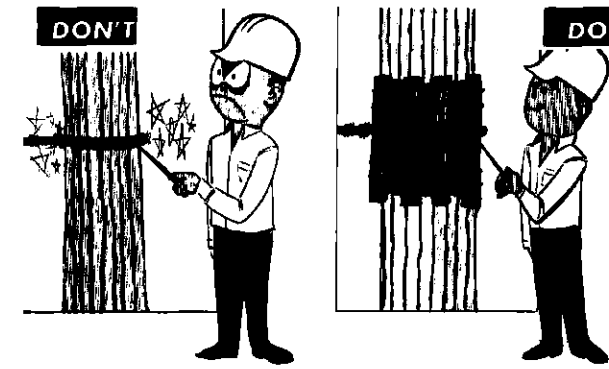
EPM No. 1.—The Contractor shall conduct frequent on the job training courses, not less than monthly, for the purpose of emphasizing the environmental protection requirements of the contract. He shall emphasize that prevention of damage to the environment is the primary goal and that restoration should be necessary only when damage is unavoidable.



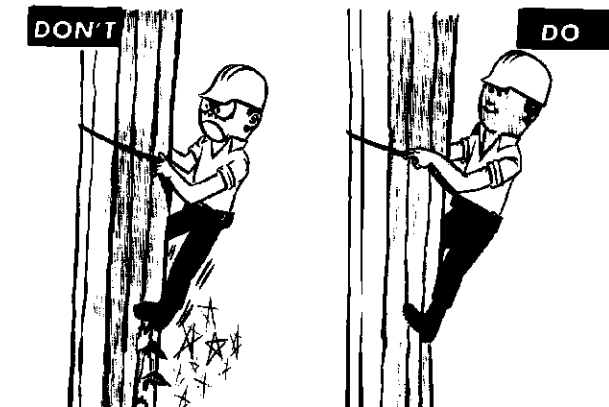
EPM No. 2.—Rock faces and other interesting geologic features, including natural boat landings, which will be exposed by drawdown of the reservoir shall be preserved.



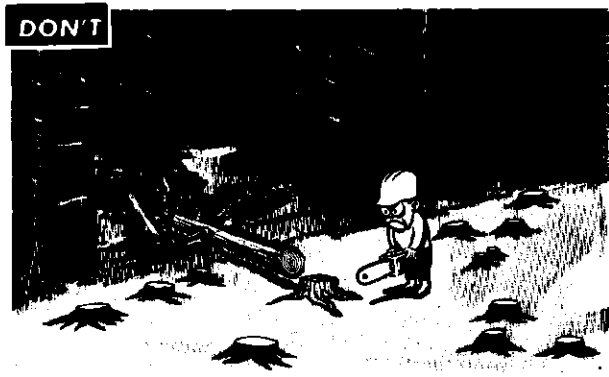
EPM No. 3.—Survey lines shall be located to avoid cutting large trees and to minimize clearing beyond established clearing limits. Clearing of brush and branches for sight lines shall be held to the minimum practical limits.



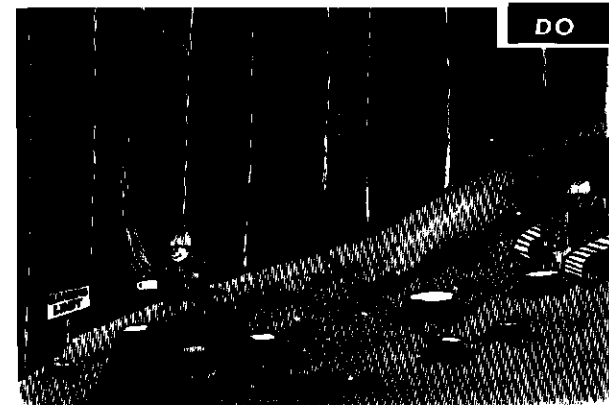
EPM No. 4.—Except in areas to be cleared, ropes, cables or guys shall be fastened to or attached to trees unless specifically authorized by the Contracting Officer. Where such anchorage is permitted, the trunk shall first be wrapped with not less than 4 layers of bark or equivalent padding over which softwood cleats shall be tied before any rope, cable or wire is placed.



EPM No. 5.—Where tree climbing is necessary, the use of climber 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.



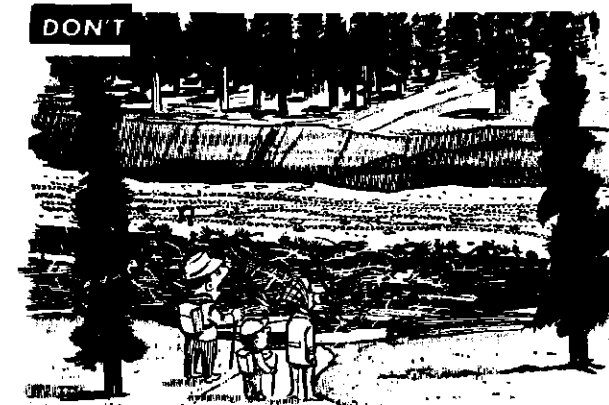
EPM No. 7.—Ropes, guys or other means shall be used where necessary to restrain materials from damaging trees or shrubs which are to remain.



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.



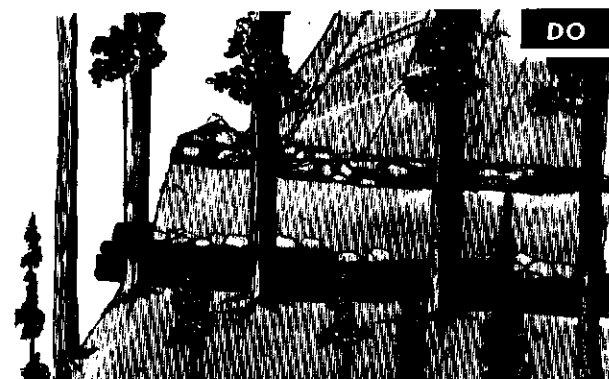
EPM No. 10.—Where game trails or hiking trails cross construction areas, such trails shall not be covered by debris and shall be maintained in a safe and passable condition at all times.



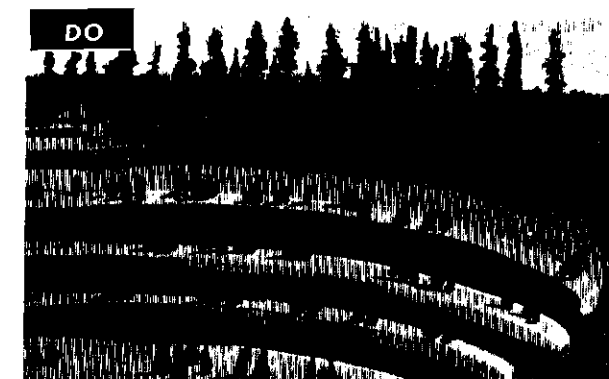
EPM No. 11.—Ramps shall be constructed in cut areas or trails shall be rerouted to provide access. Location of rerouted trails shall be subject to the approval of the Contracting Officer. Traffic warning signs shall be provided at hiking trails and maintained during construction operations.



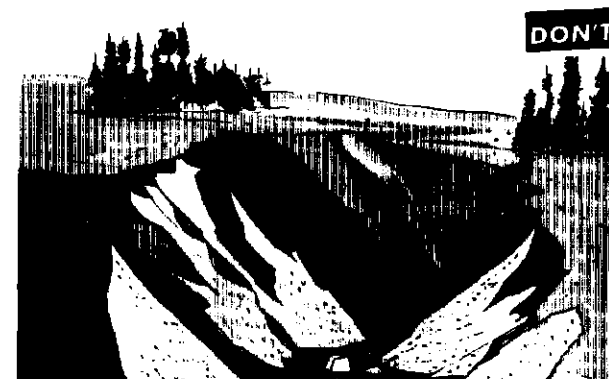
EPM No. 12.—When work is completed, whether on Government-owned lands or on private lands, all camp, storage and other contractor's buildings shall be removed, and the sites restored to a neat and presentable condition appropriate to the landscape, unless otherwise specified.



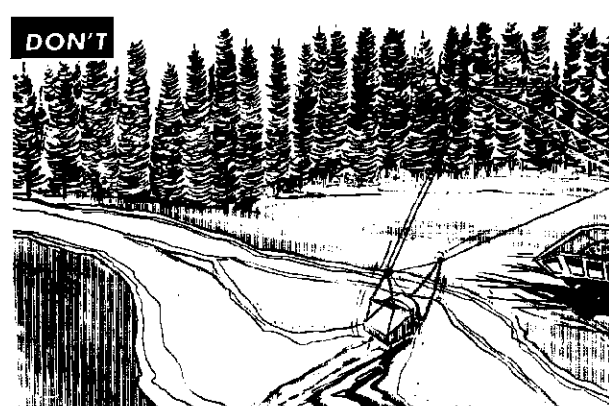
EPM No. 13.—The contractor shall erect log barriers in specified locations to prevent excavated material from escaping down the slope. The log barriers shall be placed at the edge of the cleared area or in other locations up the slope as approved by the Contracting Officer.



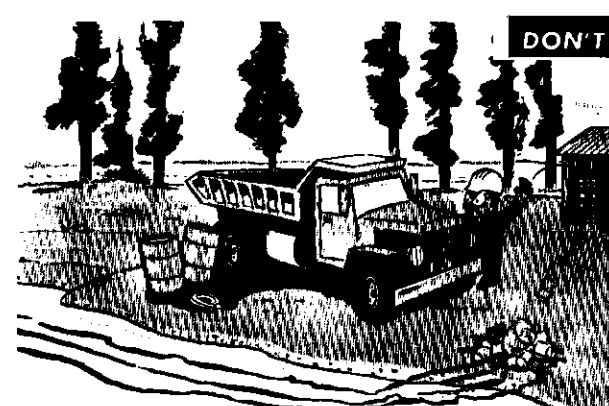
EPM No. 14.—Development and reclamation of borrow areas shall be in accordance with the approved borrow area reclamation plan.



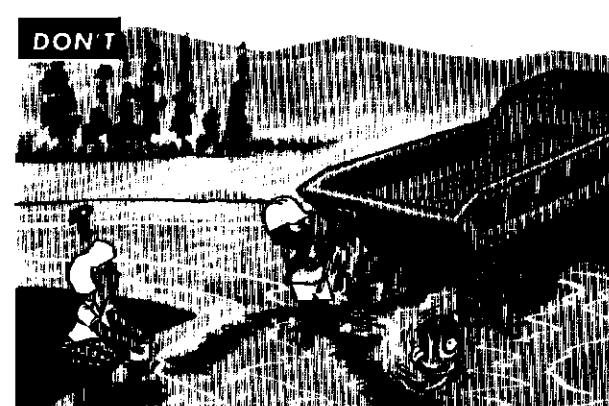
EPM No. 15.—Slopes of the borrow site shall be graded and dressed to blend with the adjacent terrain.



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			
Designed by:	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA ENVIRONMENTAL PROTECTION MEASURES	Sheet reference number:	FILENAME: EDC00evd02.dgn
Drawn by:		None	STD: gpb
Checked by:		DATE: OCTOBER 1999	STD: gpb
Reviewed by:		Drawing Code:	Z2 107/2
Approved by:		Sheet 2 of 2	