

**US Army Corps  
of Engineers**

**Huntington District**

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# **As Constructed Plans**

**PHASE IIIB – LOCAL PROTECTION PROJECT  
WEST COLUMBUS, OHIO**

**CC-13074**

**APRIL 2006**

**REDUCED 50%**

# I N D E X

DRAWING NO. 016-PWC-13	TITLE	DRAWING NO. 016-PWC-13	TITLE	DRAWING NO. 016-PWC-13	TITLE	DRAWING NO. 016-PWC-13	TITLE
	<b>GENERAL</b>	12/24	WALL GRAPHICS (9 OF 33)	15.1/29	42" FLAP GATE MISCELLANEOUS DETAILS	16/5	PLAN AND PROFILE 283+50 TO 288+50
0/1	INDEX (1 OF 3)	12/25	WALL GRAPHICS (10 OF 33)	15.1/30	MISCELLANEOUS PAVEMENT DETAILS	16/6	PLAN AND PROFILE 288+50 TO 293+50
0/2	INDEX (2 OF 3)	12/26	WALL GRAPHICS (11 OF 33)	15.1/31	PROFILES AND MISC. DETAILS	16/7	PLAN AND PROFILE 293+50 TO 298+50
0/2A	INDEX (3 OF 3)	12/27	WALL GRAPHICS (12 OF 33)	15.1/32	DRAINAGE GENERAL NOTES	16/8	PLAN AND PROFILE 298+50 TO 303+50
0/3	LEGEND	12/28	WALL GRAPHICS (13 OF 33)			16/9	PLAN AND PROFILE 303+50 TO A 308+50
0/4	GENERAL NOTES	12/29	WALL GRAPHICS (14 OF 33)		<b>SANITARY SEWERS</b>	16/10	PLAN AND PROFILE A 308+50 TO A 313+50
0/5	PROJECT MAPS	12/30	WALL GRAPHICS (15 OF 33)	15.2/1	STIMMEL ROAD SANITARY SEWER (1 OF 2)	16/11	PLAN AND PROFILE A 313+50 TO A 318+50
0/6	GENERAL SITE PLAN	12/31	WALL GRAPHICS (16 OF 33)	15.2/2	STIMMEL ROAD SANITARY SEWER (2 OF 2)	16/12	PLAN AND PROFILE A 318+50 TO A 323+50
		12/32	WALL GRAPHICS (17 OF 33)	15.2/3	SANITARY SEWERS-HORIZONTAL ALIGNMENT TABLES	16/13	PLAN AND PROFILE A 323+50 TO A 328+50
	<b>CONTRACTOR WORK LIMITS</b>	12/33	WALL GRAPHICS (18 OF 33)	15.2/4	SCIOTO MAIN SANITARY SEWER (1 OF 7)	16/14	PLAN AND PROFILE A 328+50 TO A 333+50
6/1	MONUMENT PLAN (1 OF 4)	12/34	WALL GRAPHICS (19 OF 33)	15.2/5	SCIOTO MAIN SANITARY SEWER (2 OF 7)	16/15	PLAN AND PROFILE A 333+50 TO A 338+50
6/2	MONUMENT PLAN (2 OF 4)	12/35	WALL GRAPHICS (20 OF 33)	15.2/6	SCIOTO MAIN SANITARY SEWER (3 OF 7)	16/16	PLAN AND PROFILE A 338+50 TO A 343+50
6/3	MONUMENT PLAN (3 OF 4)	12/36	WALL GRAPHICS (21 OF 33)	15.2/7	SCIOTO MAIN SANITARY SEWER (4 OF 7)	16/17	PLAN AND PROFILE A 343+50 TO A 348+50
6/4	MONUMENT PLAN (4 OF 4)	12/37	WALL GRAPHICS (22 OF 33)	15.2/8	SCIOTO MAIN SANITARY SEWER (5 OF 7)	16/18	PLAN AND PROFILE A 348+50 TO A 352+17.06
6/5	MONUMENT TABLES	12/38	WALL GRAPHICS (23 OF 33)	15.2/9	SCIOTO MAIN SANITARY SEWER (6 OF 7)	16/19	Not Used
		12/39	WALL GRAPHICS (24 OF 33)	15.2/10	SCIOTO MAIN SANITARY SEWER (7 OF 7)	16/20	CROSS SECTIONS 263+50 TO 266+00
	<b>RIGHT OF WAY</b>	12/40	WALL GRAPHICS (25 OF 33)	15.2/11	WEST SIDE SANITARY SEWER	16/21	CROSS SECTIONS 266+50 TO 269+00
6/6	MONUMENT PLAN (1 OF 3)	12/41	WALL GRAPHICS (26 OF 33)	15.2/12	3" SANITARY FORCE MAIN RELOCATION	16/22	CROSS SECTIONS 269+50 TO 272+00
6/7	MONUMENT PLAN (2 OF 3)	12/42	WALL GRAPHICS (27 OF 33)	15.2/13	CONSTRUCTION SEQUENCE STIMMEL ROAD/ACCESS ROAD	16/23	CROSS SECTIONS 272+50 TO 275+00
6/8	MONUMENT PLAN (3 OF 3)	12/43	WALL GRAPHICS (28 OF 33)			16/24	CROSS SECTIONS 275+50 TO 278+00
6/9	MONUMENT TABLES	12/44	WALL GRAPHICS (29 OF 33)		<b>SCIOTO MAIN JUNCTION CHAMBER</b>	16/25	CROSS SECTIONS 278+50 TO 281+00
		12/45	WALL GRAPHICS (30 OF 33)	15.3/1	JUNCTION CHAMBER SITE/GRADING SAN. SERVICE PLAN	16/26	CROSS SECTIONS 281+50 TO 284+00
	<b>SURVEY</b>	12/46	WALL GRAPHICS (31 OF 33)	15.3/2	JUNCTION CHAMBER UPPER SLAB PLAN	16/27	CROSS SECTIONS 284+50 TO 287+00
11/1	CENTERLINE OF PROTECTION (1 OF 7)	12/47	WALL GRAPHICS (32 OF 33)	15.3/3	JUNCTION CHAMBER LOWER PLAN	16/28	CROSS SECTIONS 287+50 TO 290+00
11/2	CENTERLINE OF PROTECTION (2 OF 7)	12/48	WALL GRAPHICS (33 OF 33)	15.3/4	JUNCTION CHAMBER SECTIONS (1 OF 2)	16/29	CROSS SECTIONS 290+50 TO 293+00
11/3	CENTERLINE OF PROTECTION (3 OF 7)			15.3/5	JUNCTION CHAMBER SECTIONS (2 OF 2)	16/30	CROSS SECTIONS 293+50 TO 296+00
11/4	CENTERLINE OF PROTECTION (4 OF 7)		<b>NORTHERN INTERIOR DRAINAGE</b>	15.3/6	JUNCTION CHAMBER SECTIONS AND DETAILS	16/31	CROSS SECTIONS 296+50 TO 299+00
11/5	CENTERLINE OF PROTECTION (5 OF 7)	15.1/1	NORTHERN DRAINAGE SYSTEM (1 OF 8)	15.3/7	JUNCTION CHAMBER STRUCTURAL SECTIONS	16/32	CROSS SECTIONS 299+50 TO 302+00
11/6	CENTERLINE OF PROTECTION (6 OF 7)	15.1/2	NORTHERN DRAINAGE SYSTEM (2 OF 8)	15.3/8	JUNCTION CHAMBER STRUCTURAL DETAILS	16/33	CROSS SECTIONS 302+50 TO 305+00
11/7	CENTERLINE OF PROTECTION (7 OF 7)	15.1/3	NORTHERN DRAINAGE SYSTEM (3 OF 8)	15.3/9	JUNCTION CHAMBER GENERAL NOTES	16/34	CROSS SECTIONS A 305+50 TO A 308+00
11/8	CENTERLINE OF PROTECTION - HORIZ. ALIGNMENT	15.1/4	NORTHERN DRAINAGE SYSTEM (4 OF 8)	15.3/10	RELIEF CHAMBER TOP SLAB REPLACEMENT	16/35	CROSS SECTIONS A 308+50 TO A 311+00
11/9	SURVEY REFERENCES (1 OF 3)	15.1/5	NORTHERN DRAINAGE SYSTEM (5 OF 8)	15.3/11	RELIEF CHAMBER LOWER SLAB PLAN & DETAILS	16/36	CROSS SECTIONS A 311+50 TO A 314+00
11/10	SURVEY REFERENCES (2 OF 3)	15.1/6	NORTHERN DRAINAGE SYSTEM (6 OF 8)			16/37	CROSS SECTIONS A 314+50 TO A 317+00
11/11	SURVEY REFERENCES (3 OF 3)	15.1/7	NORTHERN DRAINAGE SYSTEM (7 OF 8)		<b>RENICK RUN DISCHARGE LINE</b>	16/38	CROSS SECTIONS A 317+50 TO A 320+00
		15.1/8	NORTHERN DRAINAGE SYSTEM (8 OF 8)	15.4/1	RENICK RUN PLAN AND PROFILE (1 OF 4)	16/39	CROSS SECTIONS A 320+50 TO A 323+00
	<b>LANDSCAPING</b>	15.1/9	MISCELLANEOUS DRAINAGE PROFILES	15.4/2	RENICK RUN PLAN AND PROFILE (2 OF 4)	16/40	CROSS SECTIONS A 323+50 TO A 326+00
12/1	LANDSCAPING PLAN (1 OF 12)			15.4/3	RENICK RUN PLAN AND PROFILE (3 OF 4)	16/41	CROSS SECTIONS A 326+50 TO A 329+00
12/2	LANDSCAPING PLAN (2 OF 12)		<b>I-71 DRAINAGE</b>	15.4/4	RENICK RUN PLAN AND PROFILE (4 OF 4)	16/42	CROSS SECTIONS A 329+50 TO A 332+00
12/3	LANDSCAPING PLAN (3 OF 12)	15.1/10	I-71 DRAINAGE SYSTEM (1 OF 15)	15.4/5	GATE CHAMBER / PUMP STATION MODIFICATIONS (1 OF 2)	16/43	CROSS SECTIONS A 332+50 TO A 335+00
12/4	LANDSCAPING PLAN (4 OF 12)	15.1/11	I-71 DRAINAGE SYSTEM (2 OF 15)	15.4/6	GATE CHAMBER / PUMP STATION MODIFICATIONS (2 OF 2)		
12/5	LANDSCAPING PLAN (5 OF 12)	15.1/12	I-71 DRAINAGE SYSTEM (3 OF 15)	15.4/7	OSIS CROSSING CHAMBER MODIFICATIONS (1 OF 3)		
12/6	LANDSCAPING PLAN (6 OF 12)	15.1/13	I-71 DRAINAGE SYSTEM (4 OF 15)	15.4/8	OSIS CROSSING CHAMBER MODIFICATIONS (2 OF 3)		
12/7	LANDSCAPING PLAN (7 OF 12)	15.1/14	I-71 DRAINAGE SYSTEM (5 OF 15)	15.4/9	OSIS CROSSING CHAMBER MODIFICATIONS (3 OF 3)		
12/8	LANDSCAPING PLAN (8 OF 12)	15.1/15	I-71 DRAINAGE SYSTEM (6 OF 15)	15.4/10	TYPICAL PUSH / PULL STATION DETAILS		
12/9	LANDSCAPING PLAN (9 OF 12)	15.1/16	I-71 DRAINAGE SYSTEM (7 OF 15)	15.4/11	MISCELLANEOUS DETAILS		
12/10	LANDSCAPING PLAN (10 OF 12)	15.1/17	I-71 DRAINAGE SYSTEM (8 OF 15)	15.4/12	MISCELLANEOUS DETAILS		
12/11	LANDSCAPING PLAN (11 OF 12)	15.1/18	I-71 DRAINAGE SYSTEM (9 OF 15)				
12/12	LANDSCAPING PLAN (12 OF 12)	15.1/19	I-71 DRAINAGE SYSTEM (10 OF 15)		<b>WATER LINE RELOCATION</b>		
12/13	FRANK ROAD LANDSCAPING / GRADING PLAN	15.1/20	I-71 DRAINAGE SYSTEM (11 OF 15)	15.5/1	GREENLAWN AVENUE 20" WATER LINE		
12/14	LANDSCAPING DETAILS (1 OF 2)	15.1/21	I-71 DRAINAGE SYSTEM (12 OF 15)	15.5/2	STIMMEL ROAD WATER LINE		
12/15	LANDSCAPING DETAILS (2 OF 2)	15.1/22	I-71 DRAINAGE SYSTEM (13 OF 15)	15.5/3	MISCELLANEOUS DETAILS		
12/16	WALL GRAPHICS (1 OF 33)	15.1/23	I-71 DRAINAGE SYSTEM (14 OF 15)	15.5/4	PUMP STATION WATER SERVICE (1 OF 2)		
12/17	WALL GRAPHICS (2 OF 33)	15.1/24	I-71 DRAINAGE SYSTEM (15 OF 15)	15.5/5	PUMP STATION WATER SERVICE (2 OF 2)		
12/18	WALL GRAPHICS (3 OF 33)						
12/19	WALL GRAPHICS (4 OF 33)		<b>MISCELLANEOUS DRAINAGE</b>		<b>GENERAL PROTECTION</b>		
12/20	WALL GRAPHICS (5 OF 33)	15.1/25	36" SLUICE GATE CHAMBER PLAN AND PROFILE	16/1	PLAN AND PROFILE 263+50 TO 268+50		
12/21	WALL GRAPHICS (6 OF 33)	15.1/26	24" FLAP GATE SITE PLAN	16/2	PLAN AND PROFILE 268+50 TO 273+50		
12/22	WALL GRAPHICS (7 OF 33)	15.1/27	48" SLUICE GATE CHAMBER PLAN AND PROFILE	16/3	PLAN AND PROFILE 273+50 TO 278+50		
12/23	WALL GRAPHICS (8 OF 33)	15.1/28	42" FLAP GATE SITE PLAN	16/4	PLAN AND PROFILE 278+50 TO 283+50		

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>P.CONROY</b> Drawn by: <b>T.MULLINS</b> Checked by: <b>R.OMAN</b> Reviewed by: <b>NONE</b> Approved by: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	<b>U.S.ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <h2 style="margin: 0;">GENERAL INDEX (1 OF 3)</h2> Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b> Sheet reference number: <b>01</b> FILENAME: 00pdr01.dgn PEN TABLE: s.pfb L.pfb Sheet <b>1</b> of <b>3</b>
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# I N D E X

DRAWING NO. 016-PWC-13	TITLE	DRAWING NO. 016-PWC-13	TITLE	DRAWING NO. 016-PWC-13	TITLE	DRAWING NO. 016-PWC-13	TITLE
16/44	CROSS SECTIONS A 335+50 TO A 338+00	20.2/4	NORTH BUTTRESS MONOLITH - PLAN AND SECTIONS	51.3/14	HATCH COVER - SECTIONS AND DETAILS	93/5	ROADWAY LIGHTING DETAILS (3 OF 5)
16/45	CROSS SECTIONS A 338+50 TO A 341+00	20.2/5	POST POCKET MONOLITH - PLAN AND SECTIONS	51.3/15	GRATING & HINGE DETAILS	93/6	ROADWAY LIGHTING DETAILS (4 OF 5)
16/46	CROSS SECTIONS A 341+50 TO A 344+00	20.2/6	SOUTH BUTTRESS MONOLITH - PLAN AND SECTIONS	51.3/16	HANDRAILS, LADDERS, AND LADDER CAGE	93/7	ROADWAY LIGHTING DETAILS (5 OF 5)
16/47	CROSS SECTIONS A 344+50 TO A 347+00	20.2/7	NORTH BUTTRESS MONOLITH - REINFORCEMENT	51.3/17	BAFFLE DETAILS AND REINFORCEMENT		
16/48	CROSS SECTIONS A 347+50 TO A 350+00	20.2/8	POST POCKET MONOLITH - REINFORCEMENT				<b>PUMP STATION EXCAVATION</b>
16/49	CROSS SECTIONS A 350+50 TO A 352+17.06	20.2/9	SOUTH BUTTRESS MONOLITH - REINFORCEMENT (1 OF 2)		<b>PUMP STATION MECHANICAL</b>	94.1/1	SHORING AND STORM DRAIN DIVERSION PLAN
16/50	FLOOD PROTECTION TYPICAL SECTIONS (1 OF 2)	20.2/10	SOUTH BUTTRESS MONOLITH - REINFORCEMENT (2 OF 2)	51.4/1	PUMP STATION PLAN AT EL.726.0	94.1/2	SHORING SECTIONS
16/51	FLOOD PROTECTION TYPICAL SECTIONS (2 OF 2)	20.2/11	NORTH TRANSITION I-WALL	51.4/2	PUMP STATION SECTIONS	94.1/3	SHORING DETAILS
16/52	HARMON AVENUE ACCESS ROAD	20.2/12	EMBEDDED SILL BEAM AND DETAILS (1 OF 2)	51.4/3	PUMP STATION PLAN AT EL.698.0	94.1/4	STORM DRAIN DIVERSION SECTIONS AND DETAILS
16/53	STIMMEL ROAD ROADWAY MODIFICATIONS	20.2/13	EMBEDDED SILL BEAM AND DETAILS (2 OF 2)	51.4/4	PUMP STATION SECTIONS	94.1/5	PUMP STATION DEWATERING PLAN
16/54A	RENICK RUN AREA GRADING PLAN	20.2/14	EMBEDDED POCKETS AND COVERS	51.4/5	PUMP STATION SECTIONS		
16/54	I-71 CROSS SECTIONS 99+00 TO 101+50	20.2/15	TRESTLE ASSEMBLY	51.4/6	PUMP STATION MISCELLANEOUS DETAILS		<b>GEOTECHNICAL</b>
16/55	I-71 CROSS SECTIONS 102+00 TO 104+50	20.2/16	GRILLAGE BEAM AND MISCELLANEOUS METALS	51.4/7	PUMP STATION HEATING, VENTILATION, & PLUMBING	10/1	BORING LOCATION PLAN
16/56	I-71 CROSS SECTIONS 105+00 TO 107+50	20.2/17	RECESS ANGLES AND CORNER PROTECTION			10/2	BORING LOCATION PLAN
16/57	I-71 CROSS SECTIONS 108+00 TO 110+50	20.2/18	MISCELLANEOUS METALS		<b>PUMP STATION ELECTRICAL</b>	10/3	BORING LOCATION PLAN
16/58	I-71 CROSS SECTIONS 111+00 TO 113+50	20.2/19	STOP LOG STORAGE BUILDING	51.5/1	No! Used	10/4	GEOLOGY AND SOILS LEGEND
16/59	I-71 CROSS SECTIONS 114+00 TO 116+50	20.2/20	STOP LOG STORAGE BUILDING DETAILS	51.5/2	PUMP STATION ELECTRICAL PLAN	10/5	GRAPHIC LOGS OF BORINGS
16/60	I-71 CROSS SECTIONS 117+00 TO 119+50	20.2/21	STOP LOG STORAGE BUILDING - ELECTRICAL	51.5/3	PUMP STATION ELECTRICAL ELEVATIONS	10/6	GRAPHIC LOGS OF BORINGS
16/61	I-71 CROSS SECTIONS 120+00 TO 122+50			51.5/4	PUMP STATION ONE LINE DIAGRAM	10/7	GRAPHIC LOGS OF BORINGS
16/62	I-71 CROSS SECTIONS 123+00 TO 125+50		<b>DRAINAGE STRUCTURES</b>	51.5/5	PUMP STATION SCHEMATICS	10/8	GRAPHIC LOGS OF BORINGS
16/63	I-71 CROSS SECTIONS 126+00 TO 128+50	20.3/1	42" FLAP GATE CHAMBER-MASONRY & REINF. DETAILS	51.5/6	PUMP STATION WIRING DIAGRAM (1 OF 4)	10/9	GRAPHIC LOGS OF BORINGS
16/64	I-71 CROSS SECTIONS 129+00 TO 131+50	20.3/2	48" SLUICE GATE CHAMBER-MASONRY & REINF. DETAILS	51.5/7	PUMP STATION WIRING DIAGRAM (2 OF 4)	10/10	GRAPHIC LOGS OF BORINGS
16/65	I-71 CROSS SECTIONS 132+00 TO 134+50	20.3/3	36" SLUICE GATE CHAMBER-MASONRY DETAILS	51.5/8	PUMP STATION WIRING DIAGRAM (3 OF 4)	10/11	GRAPHIC LOGS OF BORINGS
16/66	I-71 CROSS SECTIONS 135+00 TO 137+50	20.3/4	36" SLUICE GATE CHAMBER-REINFORCEMENT DETAILS	51.5/9	PUMP STATION WIRING DIAGRAM (4 OF 4)	10/12	GRAPHIC LOGS OF BORINGS
16/67	I-71 CROSS SECTIONS 138+00 TO 140+50	20.3/5	GATE CHAMBERS - LADDER AND GRATING DETAILS	51.5/10	PUMP STATION CABINET LAYOUTS	10/13	GEOLOGIC SECTIONS A-A' AND B-B'
16/68	I-71 CROSS SECTIONS 141+00 TO 143+50	20.3/6	LADDERS AND RAILING DETAILS	51.5/11	PUMP STATION CONDUIT SCHEDULE & DETAILS	10/14	GEOLOGIC SECTIONS C-C' AND D-D'
16/69	I-71 CROSS SECTIONS 144+00 TO 146+50	20.3/7	24" FLAP GATE CHAMBER DETAILS	51.5/12	PUMP STATION PUMP CONTROLLER I/O	10/15	GEOLOGIC SECTIONS E-E' AND F-F'
16/70	I-71 CROSS SECTIONS 147+00 TO 149+50			51.5/13	PUMP STATION PUMP CONTROLLER DETAILS	10/16	GEOLOGIC SECTIONS G-G' AND H-H'
16/71	I-71 CROSS SECTIONS 150+00 TO 152+50		<b>TUNNEL CROSSING FRANK ROAD</b>			10/17	GEOLOGIC PROFILE I-1'
16/72	I-71 CROSS SECTIONS 153+00 TO 155+50	20.3/8	PLAN AND PROFILE		<b>RELIABLE POWER</b>	10/18	GEOLOGIC PROFILE I-1'
16/73	I-71 CROSS SECTIONS 156+00 TO 158+50	20.3/9	TUNNEL DETAILS	51.6/1	RELIABLE POWER ELECTRICAL SITE PLAN	10/19	GEOLOGIC PROFILE I-1'
16/74	I-71 CROSS SECTIONS 159+00 TO 161+50			51.6/2	RELIABLE POWER GROUNDING PLAN	10/20	GEOLOGIC PROFILE I-1'
16/75	I-71 CROSS SECTIONS 162+00 TO 164+50		<b>PUMP STATION</b>	51.6/3	BACKUP GENERATOR ONE LINE DIAGRAMS		
16/76	I-71 CROSS SECTIONS 165+00 TO 167+50	51.1/1	PUMP STATION SITE PLAN	51.6/4	SWITCHGEAR MISC. ELECTRICAL DETAILS		<b>HYDROLOGY</b>
16/77	I-71 CROSS SECTIONS 168+00 TO 170+50	51.1/2	PUMP STATION ACCESS ROAD	51.6/5	RELIABLE POWER CONDUIT SCHEDULE	14/1	STAGE HYDROGRAPHS
16/78	I-71 CROSS SECTIONS 171+00 TO 173+50	51.1/3	PUMP STATION ELEVATIONS	51.6/6	CONTROL SYSTEM BLOCK DIAGRAM	14/2	STAGE HYDROGRAPHS
16/79	I-71 CROSS SECTIONS 174+00 TO 174+50	51.1/4	PUMP STATION PLANS (1 OF 2)	51.6/7	FUEL STORAGE TANK & PIPING DETAILS	14/3	STAGE HYDROGRAPHS
		51.1/5	PUMP STATION PLANS (2 OF 2)	51.6/8	RELIABLE POWER FOUNDATION PLANS	14/4	STAGE HYDROGRAPHS
	<b>FLOODWALL</b>	51.1/6	PUMP STATION SECTIONAL ELEVATIONS (1 OF 2)	51.6/9	RELIABLE POWER SPILL CONTAINMENT	14/5	STAGE HYDROGRAPHS
20.1/1	TYPICAL FLATBASE WALLS MASONRY SECTIONS	51.1/7	PUMP STATION SECTIONAL ELEVATIONS (2 OF 2)	51.6/10	INTERCONNECTION WIRING DIAGRAM		
20.1/2	SPECIAL FLATBASE WALLS MASONRY SECTIONS			51.6/11	INTERCONNECTION WIRING DIAGRAM		
20.1/3	TYPICAL I-WALL DETAILS AND REINFORCEMENT		<b>PUMP STATION CONTROL BUILDING</b>				
20.1/4	TYPICAL WALL DETAILS WITH WATERSTOP	51.2/1	CONTROL BUILDING		<b>MAINTENANCE OF TRAFFIC</b>		
20.1/5	TYPICAL FLATBASE WALLS - REINFORCEMENT	51.2/2	CONTROL BUILDING SECTION AND DETAILS	92/1	I-71 TRAFFIC CONTROL PLAN (1 OF 5)		
20.1/5A	TYPICAL FLATBASE WALLS - REINFORCEMENT			92/2	I-71 TRAFFIC CONTROL PLAN (2 OF 5)		
20.1/6	SPECIAL FLATBASE WALLS - REINFORCEMENT		<b>PUMP STATION STRUCTURAL</b>	92/3	I-71 TRAFFIC CONTROL PLAN (3 OF 5)		
20.1/7	FLOODWALL AND CUTOFF WALL PLAN - SHEET 1	51.3/1	BASE REINFORCEMENT AND ANCHORS	92/4	I-71 TRAFFIC CONTROL PLAN (4 OF 5)		
20.1/8	FLOODWALL AND CUTOFF WALL PLAN - SHEET 2	51.3/2	REINFORCEMENT PLANS AT EL.669.0 AND 687.5	92/5	I-71 TRAFFIC CONTROL PLAN (5 OF 5)		
20.1/9	FLOODWALL AND CUTOFF WALL PLAN - SHEET 3	51.3/3	REINFORCEMENT PLANS AT EL.692.0 AND 698.0	92/6	GREENLAWN AVENUE DETOUR PLAN		
20.1/9A	FLOODWALL AND CUTOFF WALL PLAN - SHEET 4	51.3/4	REINFORCEMENT PLANS AT EL.703.5, 704.0 AND 711.0	92/7	GREENLAWN AVENUE TRAFFIC CONTROL PLAN (1 OF 3)		
20.1/10	FLOODWALL AND CUTOFF WALL PLAN - SHEET 5	51.3/5	REINFORCEMENT SECTIONS (1 OF 4)	92/8	GREENLAWN AVENUE TRAFFIC CONTROL PLAN (2 OF 3)		
20.1/11	FLOODWALL AND CUTOFF WALL PLAN - SHEET 6	51.3/6	REINFORCEMENT SECTIONS (2 OF 4)	92/9	GREENLAWN AVENUE TRAFFIC CONTROL PLAN (3 OF 3)		
20.1/12	WALL BARRICADES	51.3/7	REINFORCEMENT SECTIONS (3 OF 4)	92/10	MAINTENANCE OF TRAFFIC NOTES		
20.1/13	FLOODWALL TEXTURE DETAILS	51.3/8	REINFORCEMENT SECTIONS (4 OF 4)				
		51.3/9	REINFORCEMENT - OPER. FLOOR BEAMS B1 THRU B4		<b>ROADWAY ELECTRICAL</b>		
	<b>GREENLAWN AVENUE GATE CLOSURE</b>	51.3/10	REINFORCEMENT - SLAB AT EL.687.6 AND MISC. DETAILS	93/1	ROADWAY LIGHTING REMOVAL		
20.2/1	SITE PLAN	51.3/11	TRASH RACK & TRASH RAKE	93/2	ROADWAY LIGHTING REPLACEMENT		
20.2/2	PLAN AND PROFILE	51.3/12	COVER PLATES - PLAN	93/3	ROADWAY LIGHTING DETAILS (1 OF 5)		
20.2/3	PLAN AND ELEVATION	51.3/13	COVER PLATES - SECTIONS AND DETAILS	93/4	ROADWAY LIGHTING DETAILS (2 OF 5)		

Revisions			
Symbol	Descriptions	Date	Approved

**BURGESS & NIPLE, LIMITED**  
COLUMBUS, OHIO

Designed by: **P.CONROY**

Drawn by: **T.MULLINS**

Checked by: **R.OMAN**

Reviewed by: **R.OMAN**

Approved by: **R.OMAN**

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

SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS, L.P.P.  
PHASE III B

**GENERAL INDEX (2 OF 3)**

Scale: **NONE**

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Sheet reference number: **02**

FILENAME: 00pdlr02.dgn  
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Sheet **2** of **3**

# I N D E X

DRAWING NO. 016-PWC-13	TITLE	DRAWING NO. 016-PWC-13	TITLE	DRAWING NO. 016-PWC-13	TITLE	DRAWING NO. 016-PWC-13	TITLE
14/6	STAGE HYDROGRAPHS						
14/7	STAGE HYDROGRAPHS						
14/8	STAGE HYDROGRAPHS						
14/9	STAGE HYDROGRAPHS						
14/10	STAGE HYDROGRAPHS						
14/11	STAGE HYDROGRAPHS						
14/12	STAGE HYDROGRAPHS						
14/13	STAGE HYDROGRAPHS						
14/14	STAGE HYDROGRAPHS						
14/15	STAGE HYDROGRAPHS						
14/16	CORRELATION CURVE						
<b>ENVIRONMENTAL PROTECTION</b>							
107/1	STANDARD DETAILS						
107/2	STANDARD DETAILS						

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED COLUMBUS, OHIO</b>	<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>
Designed by: <b>P.CONROY</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B  <b>GENERAL INDEX (3 OF 3)</b>
Drawn by: <b>T.MULLINS</b>	Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b>
Checked by: <b>R.ROMAN</b>	Sheet reference number: <b>Q2A</b> FILENAME: 00pdlr03.dgn PEN TABLE: b.ptb L.ptb
Reviewed by:	Drawing Code: <b>016-PWC-13</b>
Approved by:	Sheet <b>3</b> of <b>3</b>

WORK AS CONSTRUCTED

**SANITARY**

- S — SANITARY SEWER
- SL — SLUDGE LINE
- FM — FORCE MAIN

**DRAINAGE**

- I — INTERCEPTOR
- U — STREET OR ROAD UNDERDRAIN
- ST — STORM SEWER
- SDF — SURFACE DRAINAGE FLOW
- CB CATCH BASIN OR DROP INLET
- SD STORM DRAIN
- MANHOLE
- CULVERT
- CULVERT END
- HEADWALL
- FLOW DIRECTION OF FLOW
- P — PIPE TO BE PLUGGED AND ABANDONED
- R — PIPE TO BE REMOVED

**UTILITIES**

- W — WATER LINE
- P — POWER
- G — GAS LINE
- UF — U.G. FIBER OPTIC
- CT — CABLE TV
- F — FIBER OPTIC
- T — TELEPHONE
- CC — CITY COMMUNICATION
- VALVE
- TELEPHONE MANHOLE
- UTILITY METER
- ELECTRIC MANHOLE

**ROADS AND RAILWAYS**

- CURB
- ROAD
- UNIMPROVED ROAD
- TRAIL
- RAILROAD
- RAILROAD
- 52 US HIGHWAY
- 49 STATE HIGHWAY
- 79 INTERSTATE HIGHWAY
- GUARDRAIL

**SURVEY SYMBOLS**

- IP IRON PIN AND CAP
  - RR SPIKE RAILROAD SPIKE
  - HORIZONTAL-HORIZONTAL/VERTICAL CONTROL
  - SPOT ELEVATION LOCATOR
  - LIGHT ON POWER POLE
  - GPS MONUMENT
  - CONCRETE MONUMENT
  - CONTROL POINT
  - MONUMENT
  - CORE DRILL HOLE UNDRILLED
  - CORE DRILL HOLE DRILLED
- MAPPING**
- EDGE OF WATER
  - SWAMP
  - CORPORATE BOUNDARY LIMITS
  - FENCE
  - TREELINE
  - BRUSH LINE
  - TREE / BUSH
  - TREE WITH BASE
  - TANKS
  - POWER POLE
  - POST
  - M.B. MAIL BOX
  - TS TRAFFIC SIGNAL
  - TRANSFORMER
  - LIGHT POLE
  - FIRE HYDRANT
  - SIGN POST
  - CENTERLINE
  - GUY WIRE
  - STREET LIGHT
  - FLOOD GATE
  - TRANSMISSION TOWER
  - WOODEN HUB
  - PHANTOM LINE
  - GROUT
  - GRAVEL
  - CONCRETE
  - 1+00 CENTERLINE OF PROJECT
  - R/W RIGHT OF WAY
  - CWL CONTRACTOR WORK LIMITS
  - R PROPERTY LINE

**EARTHWORK**

- IN SITU ROCK
- EXISTING GROUND
- FINISHED GRADE
- UNIFORM SLOPE DESIGNATION
- STONE SLOPE PROTECTION LIMITS (PLAN)
- CONTAMINATED SOIL

**ABBREVIATIONS**

- ACI AMERICAN CONCRETE INSTITUTE
- ALT ALTERNATE
- ALUM ALUMINUM
- AVE AVENUE
- AWWA AMERICAN WATER WORKS ASSOC.
- AT
- B,BOT BOTTOM
- BM BENCH MARK
- C CHANNEL
- CC CENTER TO CENTER
- CTRS CENTERS
- C CENTERLINE
- CJ CONSTRUCTION JOINT
- CL, CLR CLEAR
- CMP CORRUGATED METAL PIPE
- COL COLUMN
- CONC CONCRETE
- CONST CONSTRUCTION
- CONT CONTINUOUS
- CRS CORROSION RESISTANCE STEEL
- CWL CONTRACTOR'S WORK LIMITS
- CY CUBIC YARD
- DCIP DUCTILE CAST IRON PIPE
- DI DROP INLET
- DIA DIAMETER
- DIM DIMENSION
- DWG DRAWING
- E EAST
- EA EACH
- EF EACH FACE
- EJ EXPANSION JOINT
- EJFS EXPANSION JOINT FILLER STRIP
- EL, ELEV ELEVATION
- ELE ELECTRICAL
- EOR EDGE OF ROAD
- EO EQUAL
- EW EACH WAY
- EX, EXIST EXISTING
- EXP EXPANSION
- FIN FINISHED
- FT FEET, FOOT
- GA GAUGE OR GAGE
- GALV GALVANIZED
- GRD GROUND
- H, HORIZ HORIZONTAL
- HEX HD HEXAGONAL HEAD
- HS HIGH STRENGTH
- IF INSIDE FACE
- IJ ISOLATION JOINT
- INV INVERT
- IP IRON PIN
- JT JOINT
- LB POUND
- Ld TENSILE DEVELOPMENT LENGTH
- LT LEFT
- LLH LONG LEG HORIZONTAL
- LWL LIMITED WORK LIMITS
- MAX MAXIMUM
- MH MANHOLE
- MIN MINIMUM
- MJ MECHANICAL JOINT
- MK MARK
- N NORTH
- #, NO NUMBER
- OC ON CENTER
- OD OUTSIDE DIAMETER
- OF OUTSIDE FACE
- OP OVERHEAD POWER
- OPG OPENING
- OPP OPPOSITE
- OZ OUNCE
- PC POINT OF CURVATURE
- PI POINT OF INTERSECTION
- PL PLATE OR PROPERTY LINE
- POB POINT OF BEGINNING
- POE POINT OF ENDING
- POT POINT OF TANGENCY
- PROJ PROJECTION
- PSI POUNDS PER SQUARE INCH
- PSF POUNDS PER SQUARE FOOT
- QUAN QUANTITY
- R RADIUS
- RCP REINFORCED CONCRETE PIPE
- RD ROAD
- REINF REINFORCING
- REQ'D REQUIRED
- RGC RIGID GALVANIZED CONDUIT
- RF ROOF FRAME
- RT RIGHT
- S SOUTH
- SAN SANITARY
- SECT SECTION
- SF SQUARE FEET
- SHT SHEET
- SIM SIMILAR
- SPC SPACES
- SQ SQUARE
- SS STAINLESS STEEL, SIDE SLOPE
- ST STORM
- STA STATION
- STD STANDARD
- STIR STIRRUPS
- STL STEEL
- STR STRAIGHT, STRUCTURAL
- SY SQUARE YARD
- SYM SYMMETRICAL
- T TOP OR TREAD
- TOE TOP OF EXCAVATION
- TYP TYPICAL
- UNO UNLESS NOTED OTHERWISE
- UP UNDERGROUND POWER
- V, VERT VERTICAL
- VAR VARIES
- VC VERTICAL CURVE
- VPT VERTICAL POINT OF TANGENCY
- VPC VERTICAL POINT OF CURVATURE
- VPI VERTICAL POINT OF INTERSECTION

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> WEST COLUMBUS, L.P.P. PHASE III B
Designed by: <b>P.CONROY</b>	<div style="text-align: center;"> <b>SCIO TO RIVER</b>  <b>COLUMBUS, OHIO</b>  <b>WEST COLUMBUS, L.P.P.</b>  <b>PHASE III B</b>  <b>GENERAL</b>  <b>LEGEND</b> </div>
Drawn by: <b>T.MULLINS</b>	
Checked by: <b>R.OMAN</b>	
Reviewed by:	
Approved by:	Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>0/3</b> FILENAME: 00pdig01.dgn PEN TABLE: 0.pfb L.pfb 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. IF ANY ELECTRIC FACILITY BELONGING TO THE DIVISION OF ELECTRICITY IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS OR EMPLOYEES, THE DIVISION OF ELECTRICITY SHALL MAKE REPAIRS AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF ELECTRICITY, CITY OF COLUMBUS, OHIO.
- 9. THE CONTRACTOR SHALL SHORE EXCAVATIONS WHEN WORKING CLOSER THAN THREE (3) FEET TO ELECTRIC FACILITIES.
- 10. 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 - GENERAL**

- 11. 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.
- 12. 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.
- 13. 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.

**MAINTENANCE OF TRAFFIC - STIMMEL ROAD /GREENLAWN AVE.**

- 14. BARRIER INSTALLATION/REMOVAL: ALL EXISTING LANES OF I-71, GREENLAWN, AND FRANK RD./S.R.104 SHALL BE OPEN BETWEEN THE HOURS OF 5a.m.-9a.m. AND 3p.m.-8p.m. WEEK DAYS WITH NO HOUR RESTRICTIONS FROM 8p.m.FRI-5a.m.MON. ONE LANE MAY BE CLOSED DURING WORKING HOURS. EXCEPTON, THE CONTRACTOR WILL BE ALLOWED A SIX WEEK CLOSURE OF GREENLAWN AVENUE FOR CONSTRUCTION OF THE STOP LOG CLOSURE. THE CLOSURE SHALL BE COORDINATED WITH THE CITY'S TRAFFIC ENGINEER.
- 15. A LAW ENFORCEMENT OFFICER (LEO) WITH CRUISER SHALL BE UTILIZED IN ADDITION TO REQUIRED TRAFFIC CONTROL DEVICES DURING TEMPORARY LANE CLOSURES.
- 16. A TYPE C FLASHING ARROW PANEL SHALL BE USED FOR ANY LANE CLOSURE.
- 17. TEMPORARY MAINTENANCE OF TRAFFIC SHALL BE REQUIRED DURING CONSTRUCTION OF THE SANITARY SEWER ALONG STIMMEL ROAD. MAINTENANCE OF TRAFFIC FOR TWO-WAY, ONE LANE TRAFFIC SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-97.10 FROM THE OHIO DEPARTMENT OF TRANSPORTATION.
- 18. FLAGGERS SHALL BE PROVIDED BY THE CONTRACTOR DURING ANY STAGE WHERE THE ROADWAY IS REDUCED TO TWO-WAY, ONE LANE TRAFFIC. FLAGGERS SHALL CLOSE ONE LANE ON STIMMEL ROAD DURING CONSTRUCTION ACTIVITIES. BOTH LANES SHALL BE OPEN FROM 3PM TO 6PM WEEKDAYS, AND WHILE CONSTRUCTION ACTIVITIES ARE SUSPENDED.
- 19. A LAW ENFORCEMENT OFFICER WITH PATROL CAR SHALL BE REQUIRED WHILE PERFORMING CONSTRUCTION ACTIVITIES OF TIE-IN TO EXISTING SANITARY SEWER ON HARMON AVENUE. CONSTRUCTION ACTIVITIES ON HARMON AVENUE SHALL BE PERFORMED BETWEEN 9a.m. AND 3p.m..
- 20. ALL TRENCHES SHALL BE BACKFILLED AND SECURELY PLATED DURING NON-WORKING HOURS.

**UTILITIES RELOCATION**

- 21. RELOCATION OF UTILITIES FOR THE CONVENIENCE OF THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 22. 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.

23. ANY REQUIRED RELOCATION, SUPPORT, PROTECTION OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL SYSTEM IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE DIVISION OF ELECTRICITY, OR THE CONTRACTOR UNDER THE DIRECTION OF DIVISION OF ELECTRICITY PERSONNEL AND AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL CONFORM TO THE DIVISION OF ELECTRICITY'S EXISTING CONDUCTOR SAFETY POLICY AND HOLD CARD SYSTEM, COPIES OF WHICH ARE AVAILABLE FROM THE DIVISION OF ELECTRICITY. IF YOU HAVE ANY QUESTIONS, CALL BOB SCHNEIDER (645-7534) OR DUFFY D. McSWEENEY (645-2191).

24. 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

25. 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  
3500 Indianola Avenue  
Columbus, Ohio 43214  
(614) 645-7627
- Columbus Division of Water  
Utilities Complex  
910 Dublin Road  
Columbus, Ohio 43215-1116  
(614) 645-7788
- Columbus Division of  
Sewerage & Drainage  
Utilities Complex  
910 Dublin Road  
Columbus, Ohio 43215-1116  
(614) 645-7175
- Columbus Division of  
Communications  
220 Greenlawn Avenue  
Columbus, Ohio 43223  
(614) 645-7344
- Columbia Gas of Ohio  
920 West Goodale  
Columbus, Ohio 43215  
(614) 460-2398
- Ohio Department of Transportation  
District 6  
400 East William Street  
Delaware, Ohio 43015  
(740) 363-1251

**MAPPING**

- 26. ELEVATIONS ARE EXPRESSED IN FEET AND REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- 27. 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.
- 28. TOPOGRAPHY DOES NOT REFLECT RECENT BUILDING REMOVAL, CONSTRUCTION OR GRADING.
- 29. THE MAPPING OF THE PROJECT SITE WAS COMPILED FROM PHOTOGRAPHY FLOWN MARCH 1997.

**RIGHT OF WAY /WORKING LIMITS**

30. 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.

**SPOIL MATERIAL**

31. THE CONTRACTOR SHALL DISPOSE OF SPOIL MATERIALS INCLUDING STRIPPING ON-SITE AT THE LOCATION SHOWN ON DRAWING NOS. 6/1 AND 6/2 IN ACCORDANCE WITH SECTION 02315 EXCAVATION, TRENCHING AND BACKFILLING FOR BUILDINGS, STRUCTURES, UTILITIES AND SIDEWALKS OF THE SPECIFICATIONS.

**GENERAL**

- 32. THE CURRENT CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS AND STANDARD DRAWINGS, INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS WITHIN PUBLIC RIGHT-OF-WAY WITH RESPECT TO ROADWAY WORK AND UTILITIES.
- 33. WHERE NEW WORK IS TO BE ACCURATELY JOINED TO EXISTING WORK, THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, GRADES AND ELEVATIONS OF ALL EXISTING CONSTRUCTION. ELEVATIONS FOR TOP AND BOTTOM OF CATCH BASINS AND GATEWELLS SHALL ALSO BE VERIFIED PRIOR TO ORDERING.
- 34. REFERENCES TO "GATE STORAGE BUILDING" AND "STOP LOG STORAGE BUILDING" ARE SYNONYMOUS.

**I-71 DRAINAGE SYSTEM**

35. ODOT RECORD DRAWINGS INDICATE THAT EXISTING CORRUGATED METAL PIPE DESIGN OUTLETS FROM PAVEMENT UNDERDRAINS ARE PRESENT IN THE VICINITY OF THE I-71 DRAINAGE SYSTEM. ALL SUCH DRAINS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES SHALL BE DIRECTED INTO THE I-71 DRAINAGE SYSTEM, SUCH THAT POSITIVE DRAINAGE IS PROVIDED. CONTRACTING OFFICER SHALL APPROVE ANY SUCH CONNECTION.

**SCOPE OF WORK - BASE BID**

THE BASE BID WORK INCLUDES THE CONSTRUCTION OF THE FLOOD PROTECTION FEATURES (LEVEE, I-WALL AND T-WALL) FROM STATION 263+50 TO 301+80 AND STATION 304+60 TO 352+17.06. THE BASE BID ALSO INCLUDES CONSTRUCTION OF THE ENTIRE NORTHERN DRAINAGE SYSTEM EXCEPT FROM MH#3 TO THE PUMP STATION, THE I-71 DRAINAGE SYSTEM, SCIOTO MAIN SANITARY SEWER INCLUDING FRANK ROAD TUNNEL, WEST SIDE SANITARY SEWER, STIMMEL ROAD SANITARY SEWER, 3" SANITARY FORCE MAIN, JUNCTION CHAMBER EXCEPT FINAL CONNECTION TO SCIOTO MAIN SANITARY SEWER, STIMMEL ROAD MODIFICATIONS, GREENLAWN AVENUE STOP LOG CLOSURE AND STORAGE BUILDING, GREENLAWN AVENUE WATER LINE, STIMMEL ROAD WATER LINE, I-71 ROADWAY LIGHTING, LANDSCAPING AND FLOODWALL ACCESS ROAD.

**RELATED DRAWINGS - BASE BID**


- 0/1 THRU 0/6
- 6/1 THRU 6/9
- 11/1 THRU 11/11
- 12/1 THRU 12/32 AND 12/34 THRU 12/48
- 15.1/1 THRU 15.1/30
- 15.2/1 THRU 15.2/13
- 15.3/1 THRU 15.3/9
- 15.5/1 THRU 15.5/3
- 16/1 THRU 16/53
- 20.1/1 THRU 20.1/13
- 20.2/1 THRU 20.2/21
- 20.3/1 THRU 20.3/10
- 92/1 THRU 92/10
- 93/1 THRU 93/7
- 10/1 THRU 10/20
- 14/1 THRU 14/16
- 107/1 THRU 107/2

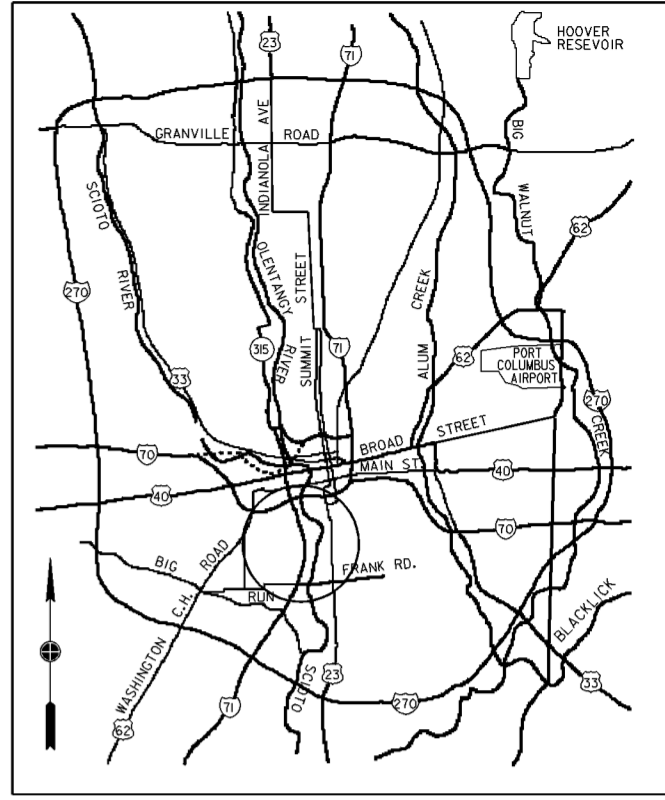
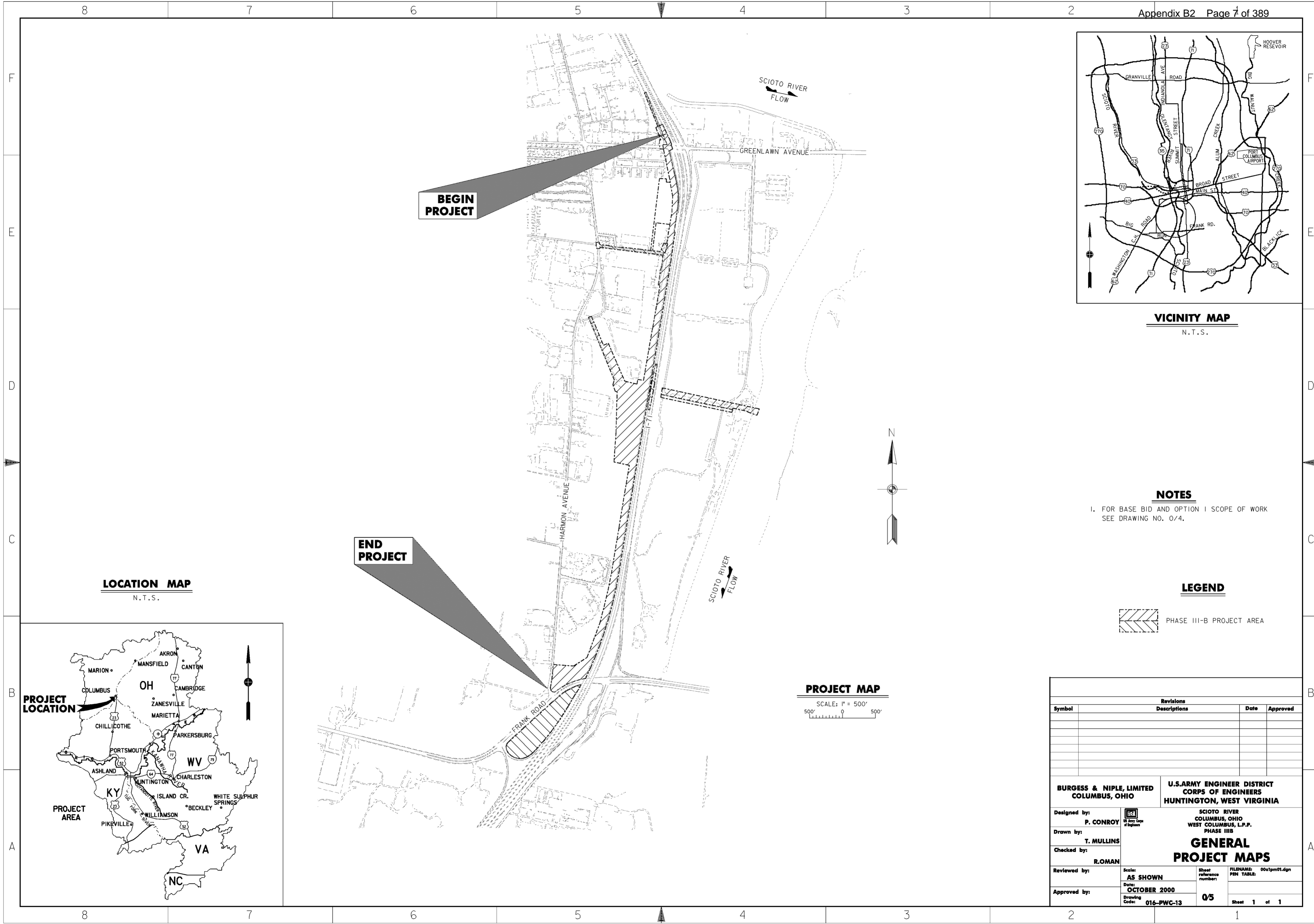
**SCOPE OF WORK - OPTION 1**

OPTION 1 INCLUDES THE CONSTRUCTION OF THE FLOOD PROTECTION FEATURES (LEVEE, I-WALL AND T-WALL) FROM STATION 301+80 TO 304+60, THE RENICK RUN PUMP STATION AND RELIABLE POWER. OPTION 1 ALSO INCLUDES CONSTRUCTION OF THE NORTHERN DRAINAGE SYSTEM FROM MH#3 TO THE PUMP STATION, PUMP STATION WATER AND SANITARY SERVICES, FLAP GATE CHAMBERS, RENICK RUN PUMP STATION DISCHARGE LINE AND PUMP STATION ACCESS ROAD.

**RELATED DRAWINGS - OPTION 1**

- 0/1 THRU 0/6
- 6/2, 6/5, 6/7 AND 6/9
- 11/3 AND 11/8 THRU 11/11
- 12/32 THRU 12/34
- 15.1/8
- 15.4/1 THRU 15.4/11
- 16/8, 16/9, 16/32, 16/33, 16/50
- 20.1/1, 20.1/3 THRU 20.1/5, 20.1/9, 20.1/13
- 51.1/1 THRU 51.1/7
- 51.2/1 THRU 51.2/2
- 51.3/1 THRU 51.3/17
- 51.4/1 THRU 51.4/7
- 51.5/1 THRU 51.5/11
- 51.6/1 THRU 51.6/7
- 94.1/1 THRU 94.1/4
- 10/1 THRU 10/20
- 14/1 THRU 14/16
- 107/1 THRU 107/2

Revisions			
Symbol	Descriptions	Date	Approved
<b>BURGESS &amp; NIPLE, LIMITED COLUMBUS, OHIO</b>		<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>	
Designed by: <b>P. CONROY</b>		<b>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIA  GENERAL NOTES</b>	
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>R. ROMAN</b>			
Reviewed by:	Scale: <b>NONE</b>	Sheet reference number: <b>04</b>	FILENAME: PEN TABLE: 00pdrn01.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>1</b> of <b>1</b>



**VICINITY MAP**  
N.T.S.

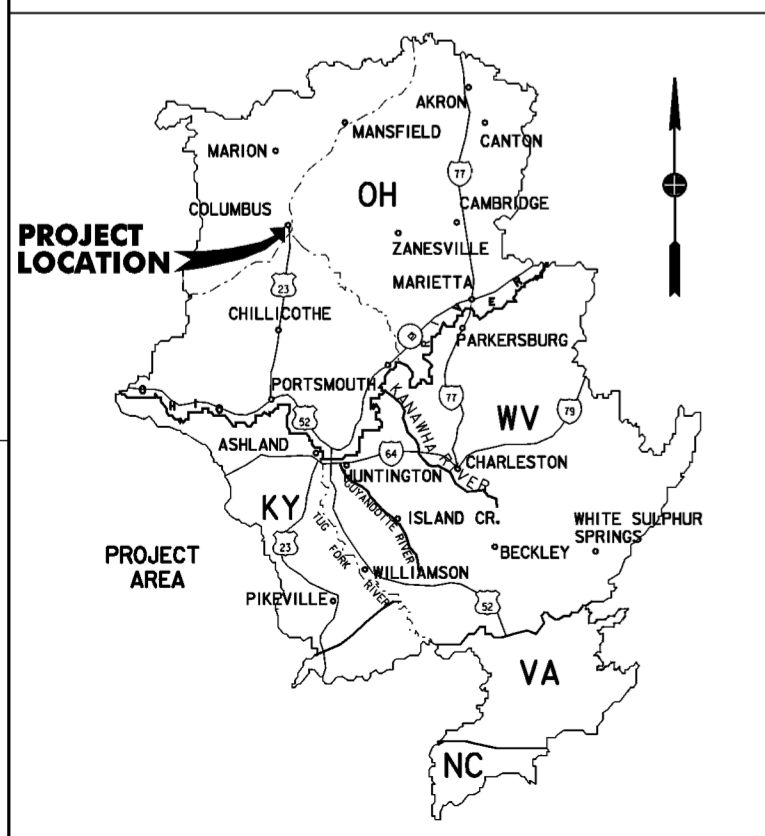
**NOTES**

- I. FOR BASE BID AND OPTION I SCOPE OF WORK SEE DRAWING NO. 0/4.

**LEGEND**

PHASE III-B PROJECT AREA

**LOCATION MAP**  
N.T.S.

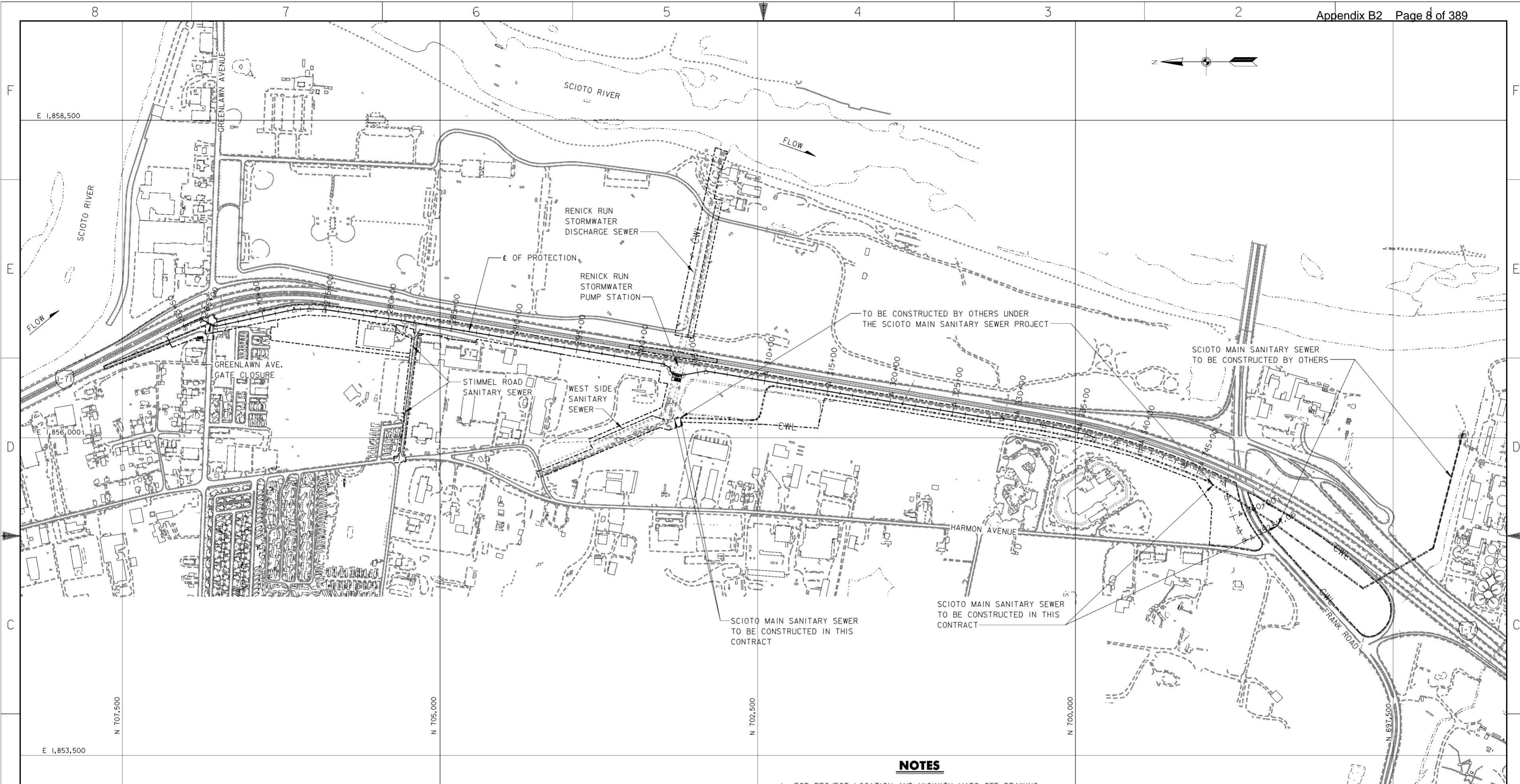


**PROJECT MAP**

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

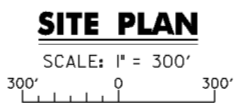
Symbol	Revisions		
	Descriptions	Date	Approved

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>P. CONROY</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III-B <b>GENERAL PROJECT MAPS</b>	
Drawn by: <b>T. MULLINS</b>		
Checked by: <b>R. ROMAN</b>		
Reviewed by:		
Approved by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>0/5</b> FILENAME: PIN TABLE: 0001pm01.dgn Sheet 1 of 1



**NOTES**

1. FOR PROJECT LOCATION AND VICINITY MAPS SEE DRAWING NO. 0/5.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
5. FOR LANDSCAPING PLANS SEE DRAWING NOS. 12/1 THRU 12/15.
6. FOR NORTHERN AND I-71 DRAINAGE PLANS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
7. FOR STIMMEL ROAD SANITARY SEWER SEE DRAWING NOS. 15.2/1 AND 15.2/2.
8. FOR SCIOTO MAIN AND WEST SIDE SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/11.
9. FOR RENICK RUN STORM SEWER SEE DRAWING NOS. 15.4/1 THRU 15.4/11.
10. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/1 THRU 16/18.
11. FOR GREENLAWN AVENUE GATE CLOSURE SEE DRAWING NOS. 20.2/1 THRU 20.2/21.

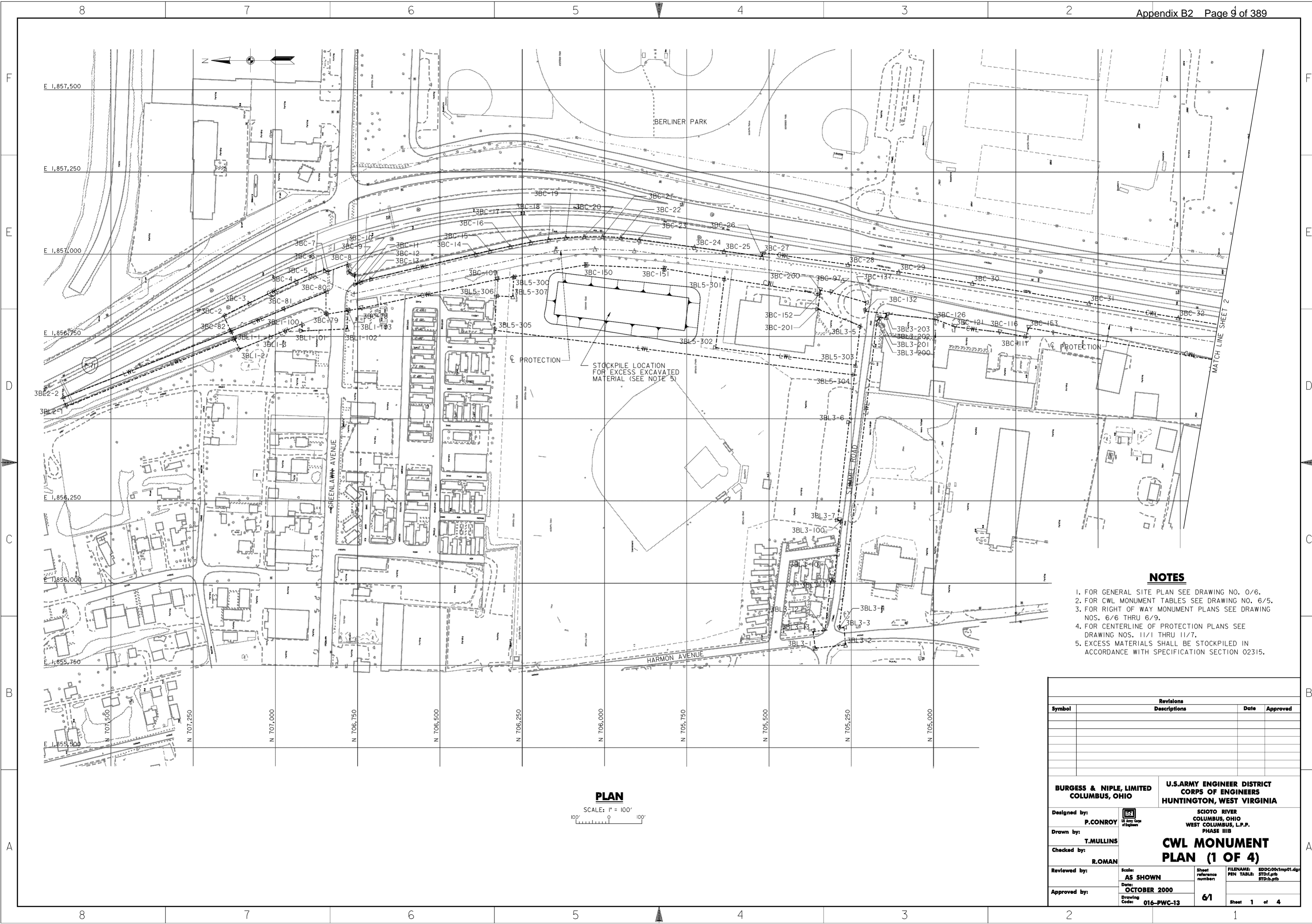


Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO	 <b>P. CONROY</b> Registered Professional Engineer State of Ohio, No. 10587	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
			SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Designed by:	Drawn by:	<b>GENERAL                  SITE PLAN</b>	
Checked by:	Reviewed by:		
Approved by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>		Sheet reference number: <b>0/6</b> FILENAME: PEN TABLE: 00gdp101.dgn Sheet 1 of 1





**PLAN**

SCALE: 1" = 100'

**NOTES**

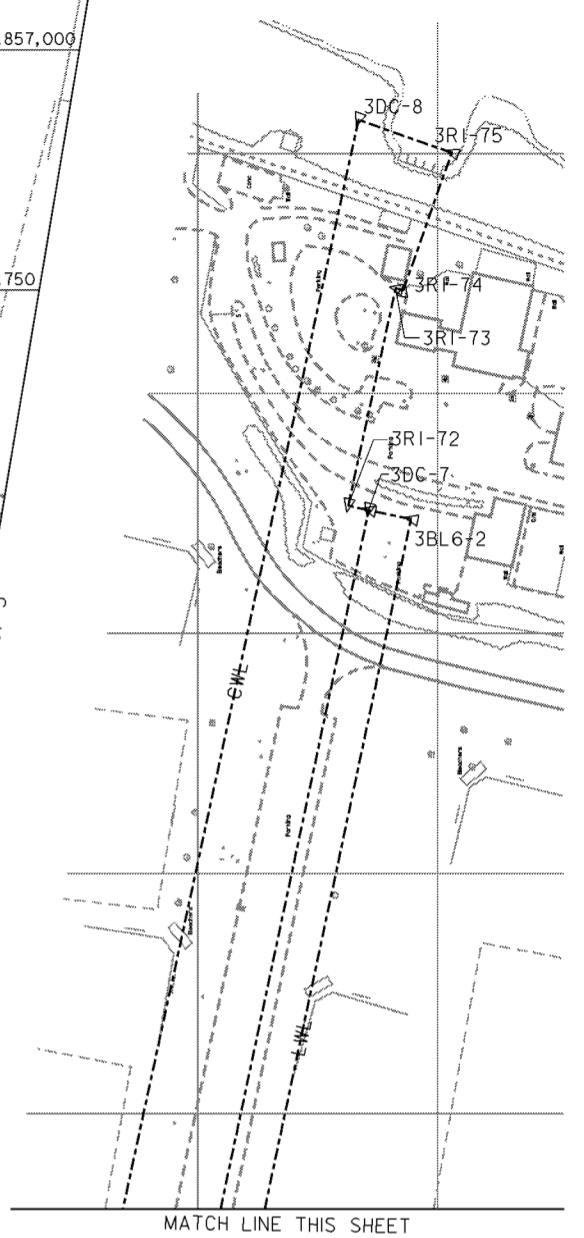
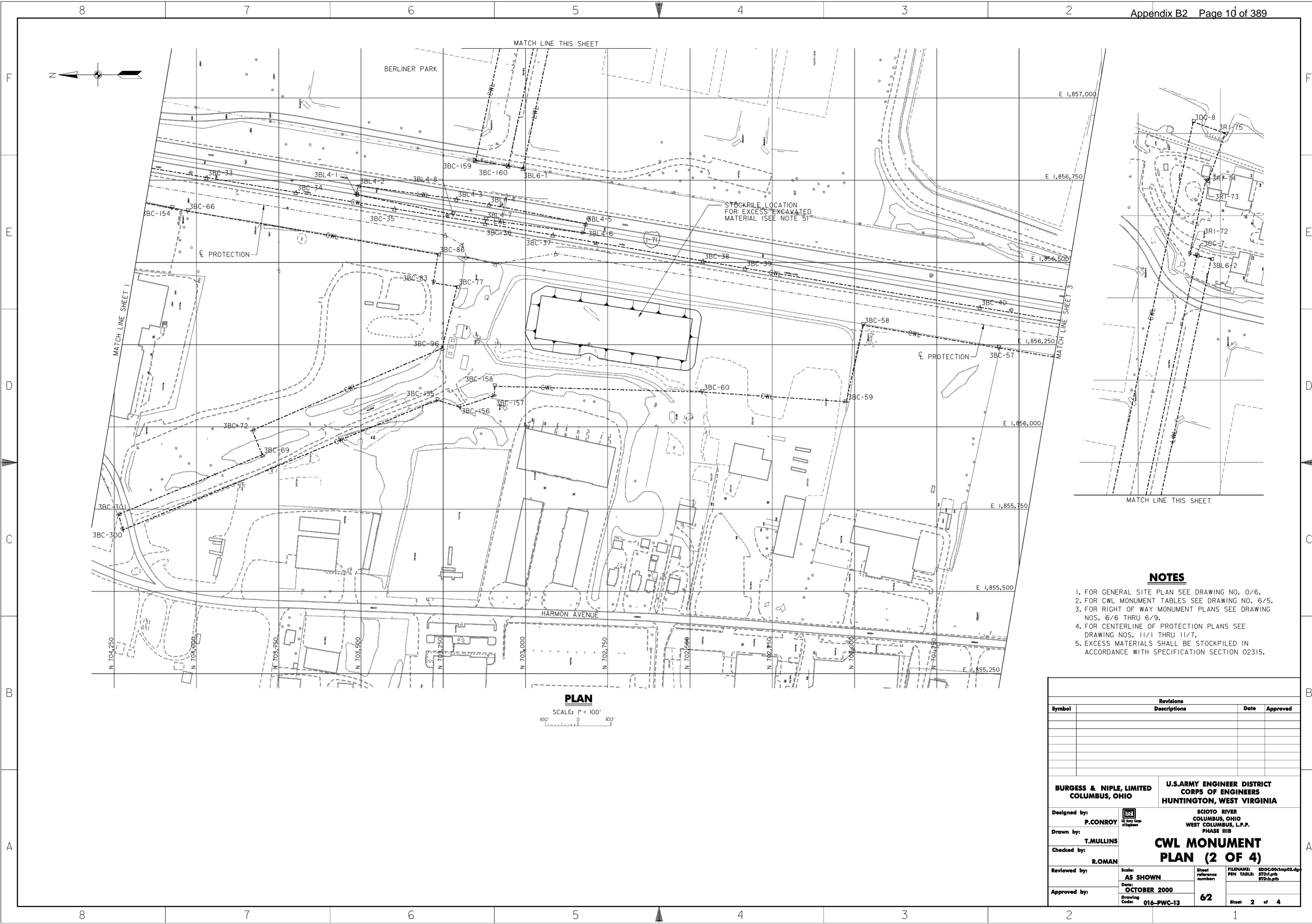
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CWL MONUMENT TABLES SEE DRAWING NO. 6/5.
3. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.
5. EXCESS MATERIALS SHALL BE STOCKPILED IN ACCORDANCE WITH SPECIFICATION SECTION 02315.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>P. CONROY</b>	Drawn by: <b>T. MULLINS</b>	<b>CWL MONUMENT</b> <b>PLAN (1 OF 4)</b>	
Checked by: <b>R. ROMAN</b>	Reviewed by: <b>AS SHOWN</b>		
Approved by: _____	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>61</b>
FILENAME: EDDC00tmp01.dwg PEN TABLE: STD1.tbl STD1b.tbl		Sheet 1 of 4	

**WORK AS CONSTRUCTED**



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

**NOTES**

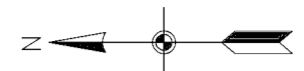
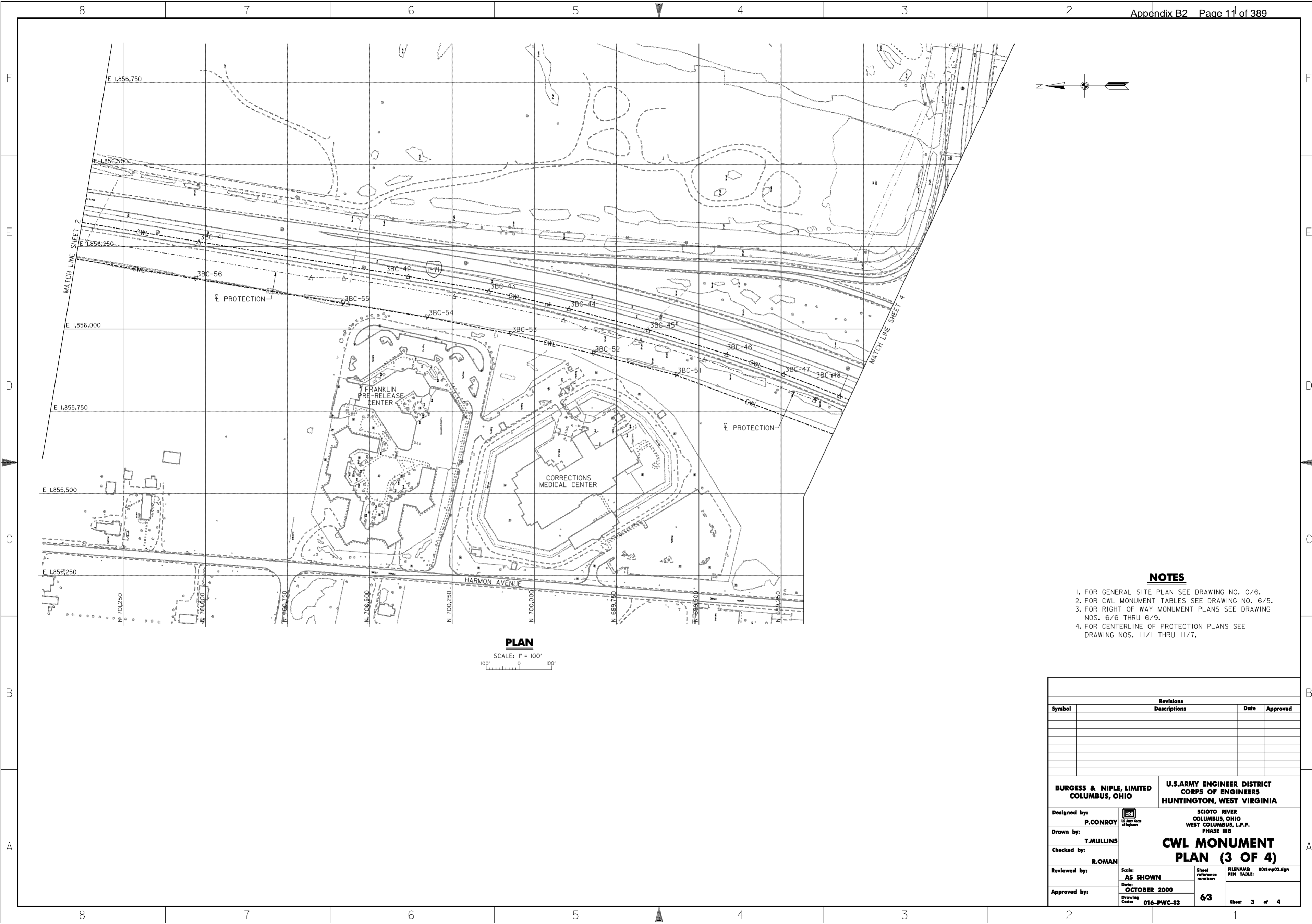
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CWL MONUMENT TABLES SEE DRAWING NO. 6/5.
3. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.
5. EXCESS MATERIALS SHALL BE STOCKPILED IN ACCORDANCE WITH SPECIFICATION SECTION 02315.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	P. CONROY Registered Professional Engineer	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III
Drawn by:	T. MULLINS	<b>CWL MONUMENT</b> <b>PLAN (2 OF 4)</b>	
Reviewed by:	R. ROMAN	Scale: AS SHOWN	FILENAME: EDDC001mp02.dwg PEN TABLE: STD1.plt STD1b.plt
		Date: OCTOBER 2000	Sheet reference number: 6/2
Approved by:	Drawing Code: 016-PWC-13	Sheet 2 of 4	Sheet 2 of 4

WORK AS CONSTRUCTED



**NOTES**

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CWL MONUMENT TABLES SEE DRAWING NO. 6/5.
3. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.

**PLAN**

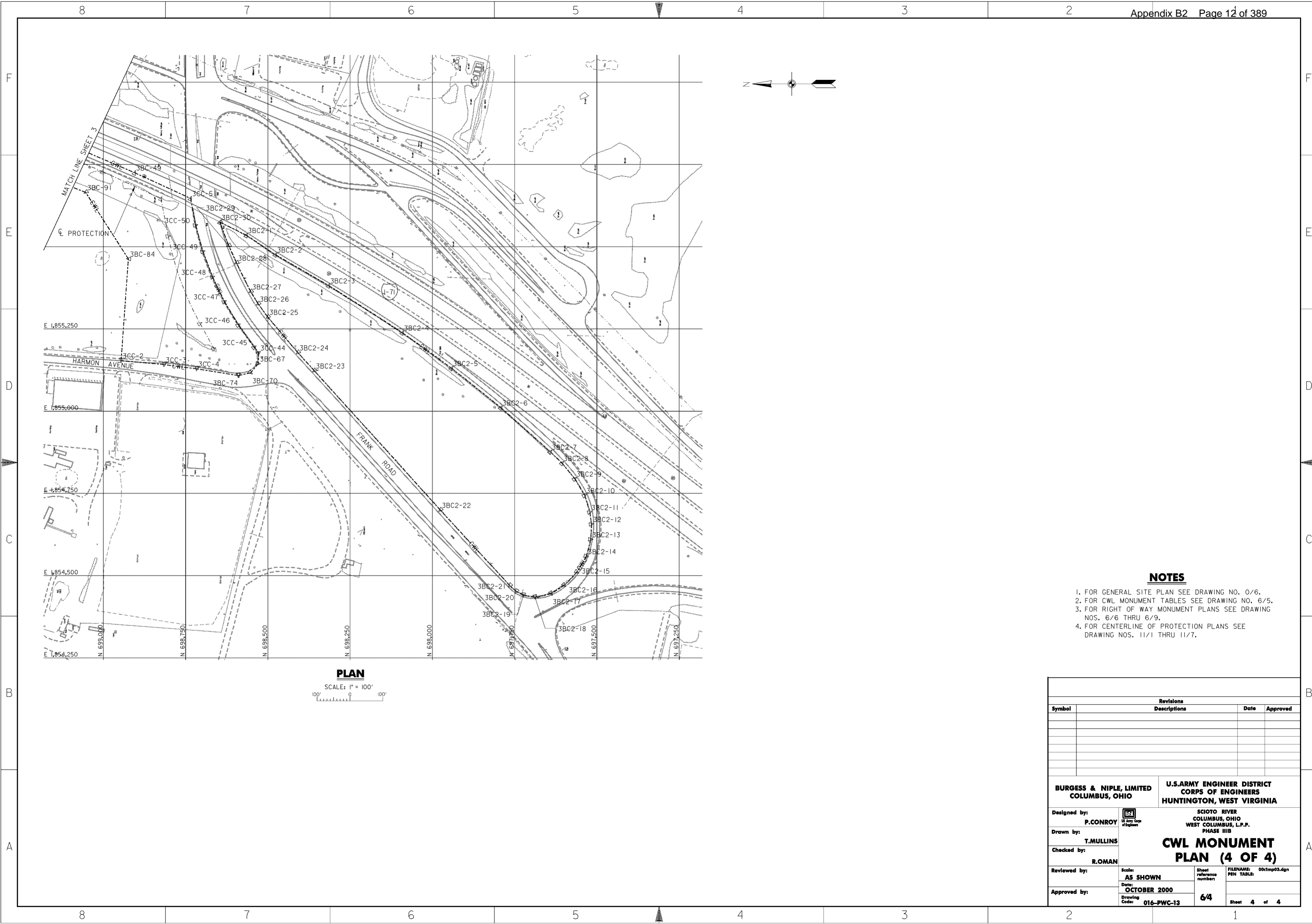
SCALE: 1" = 100'

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	P.CONROY Registered Professional Engineer State of Ohio	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by:	T.MULLINS	<b>CWL MONUMENT</b> <b>PLAN (3 OF 4)</b>	
Checked by:	R.ROMAN		
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>63</b>	FILENAME: 00c1mp03.dgn PEN TABLE:
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>3</b> of <b>4</b>

**WORK AS CONSTRUCTED**



**PLAN**

SCALE: 1" = 100'

**NOTES**

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CWL MONUMENT TABLES SEE DRAWING NO. 6/5.
3. FOR RIGHT OF WAY MONUMENT PLANS SEE DRAWING NOS. 6/6 THRU 6/9.
4. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.

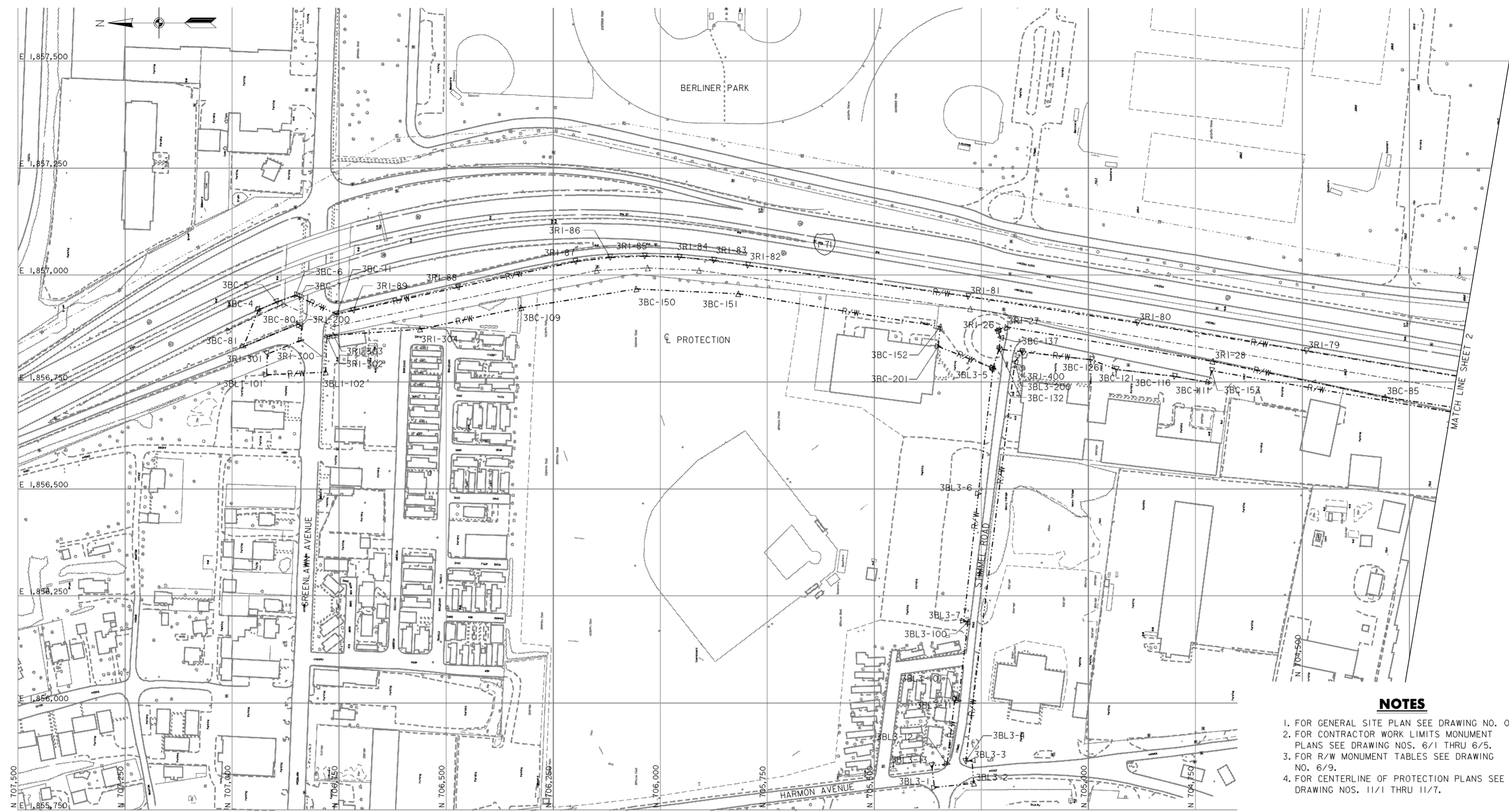
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>P. CONROY</b>	Drawn by: <b>T. MULLINS</b>	<b>CWL MONUMENT</b> <b>PLAN (4 OF 4)</b>
Checked by: <b>R. ROMAN</b>		
Reviewed by: Scale: <b>AS SHOWN</b>		
Approved by:	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>64</b>
Drawing Code: <b>016-PWC-13</b>	FILENAME: PEN TABLE: 00c1mp03.dgn	Sheet <b>4</b> of <b>4</b>

**WORK AS CONSTRUCTED**





- NOTES**
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
  2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/5.
  3. FOR R/W MONUMENT TABLES SEE DRAWING NO. 6/9.
  4. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.

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

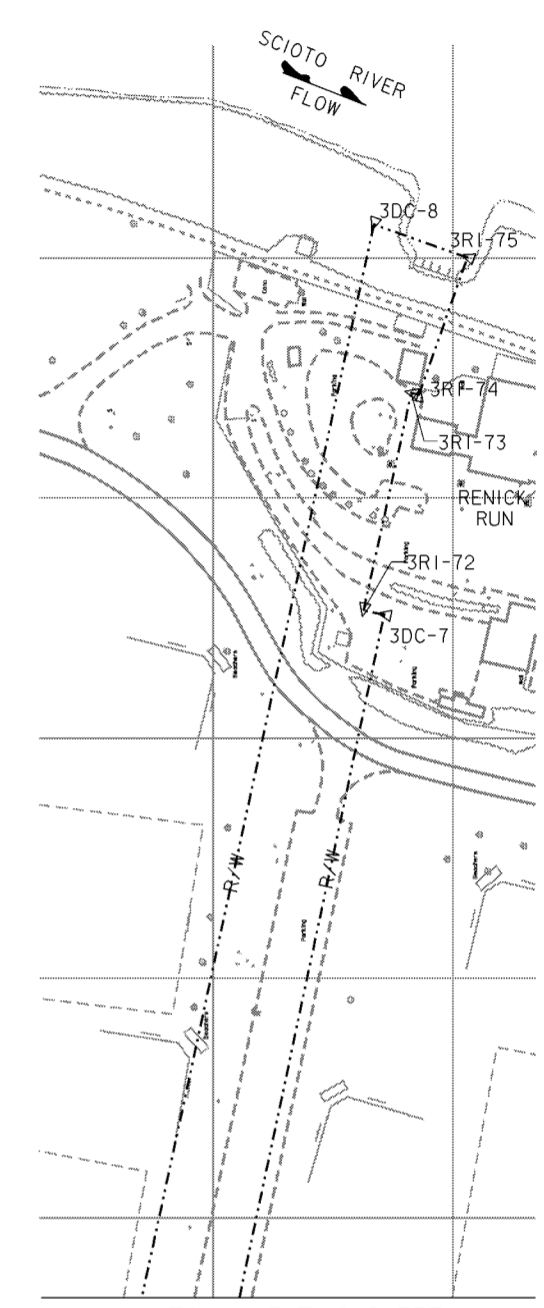
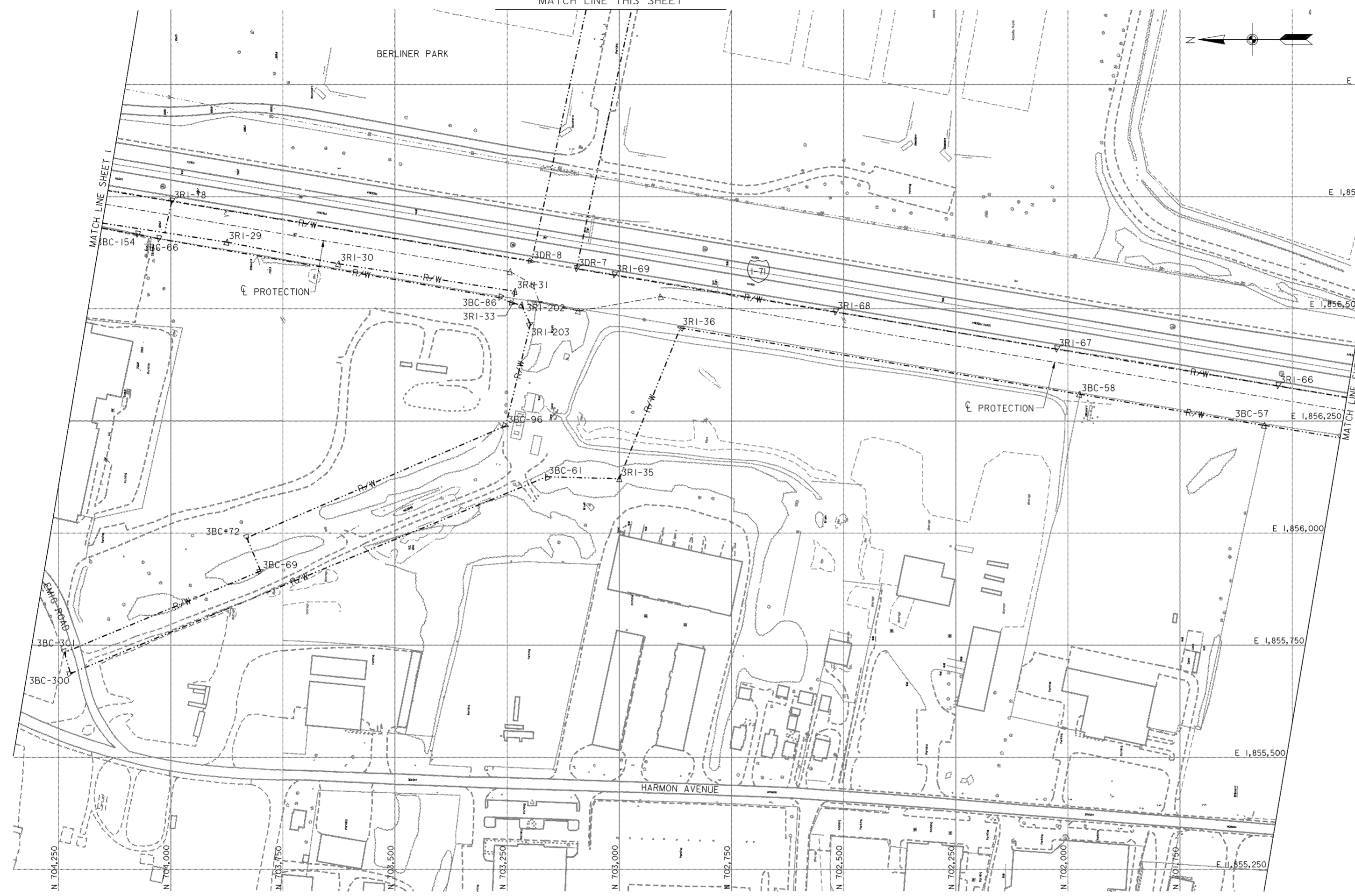
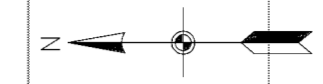
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	P. CONROY Registered Professional Engineer	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by:	T. MULLINS	<b>RW MONUMENT</b> <b>PLAN (1 OF 3)</b>	
Checked by:	R. ROMAN		
Reviewed by:	AS SHOWN Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>6/6</b>	FILENAME: 00r1mp01.dgn PEN TABLE: Sheet 1 of 3
Approved by:	(Signature)	(Signature)	(Signature)

**WORK AS CONSTRUCTED**

MATCH LINE THIS SHEET



MATCH LINE THIS SHEET

**PLAN**

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

**NOTES**

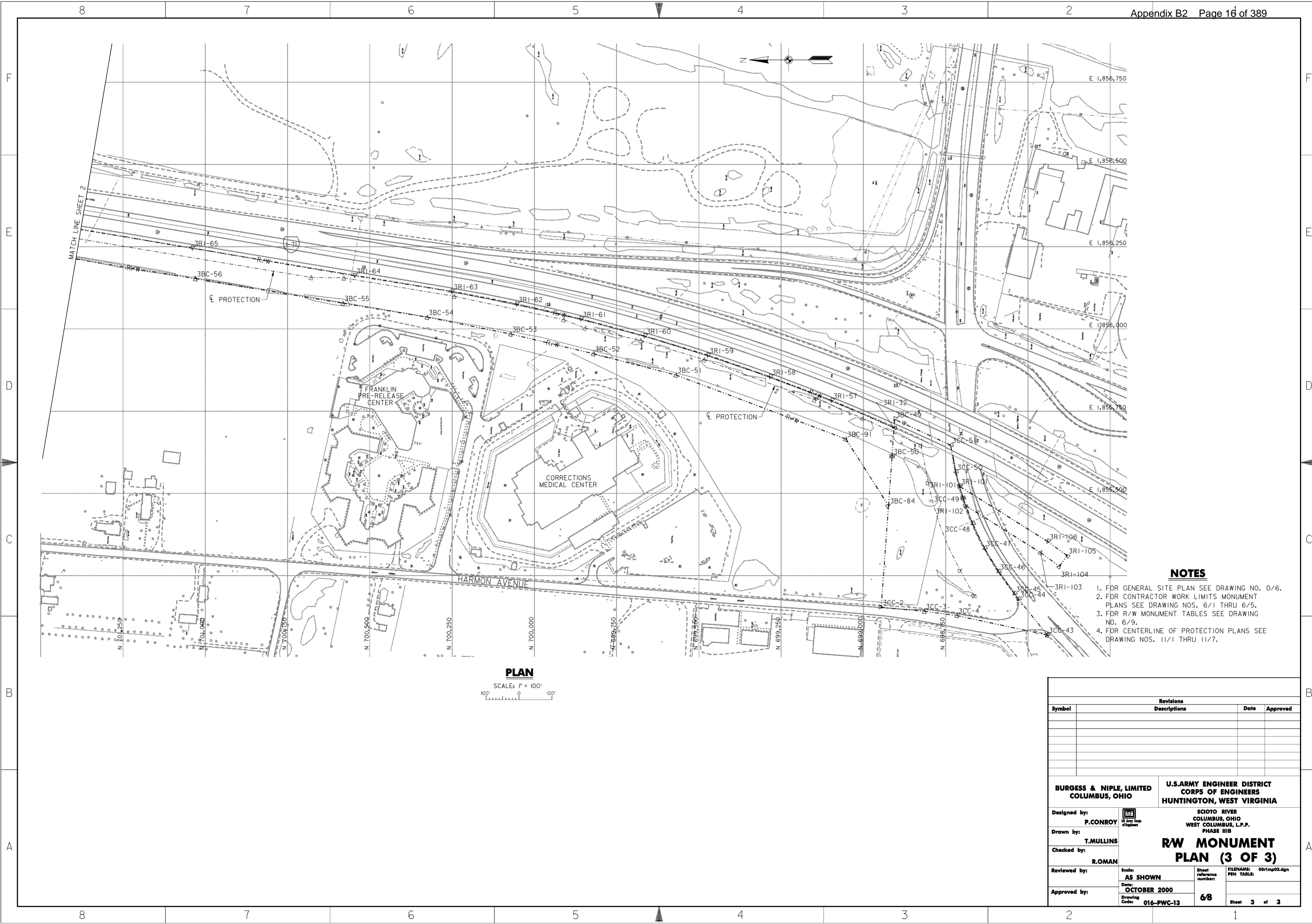
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR R/W MONUMENT TABLES SEE DRAWING NO. 6/9.
4. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>P. CONROY</b>		<b>R/W MONUMENT</b> <b>PLAN (2 OF 3)</b>	
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>R. ROMAN</b>			
Reviewed by: <b>AS SHOWN</b>			
Approved by: <b>OCTOBER 2000</b>	Scale: <b>AS SHOWN</b>	Sheet reference numbers: <b>67</b>	FILENAME: 00r1mp02.dgn PEN TABLE: Sheet 2 of 3

**WORK AS CONSTRUCTED**



**NOTES**

1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CONTRACTOR WORK LIMITS MONUMENT PLANS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR R/W MONUMENT TABLES SEE DRAWING NO. 6/9.
4. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.

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

Revisions			
Symbol	Descriptions	Date	Approved

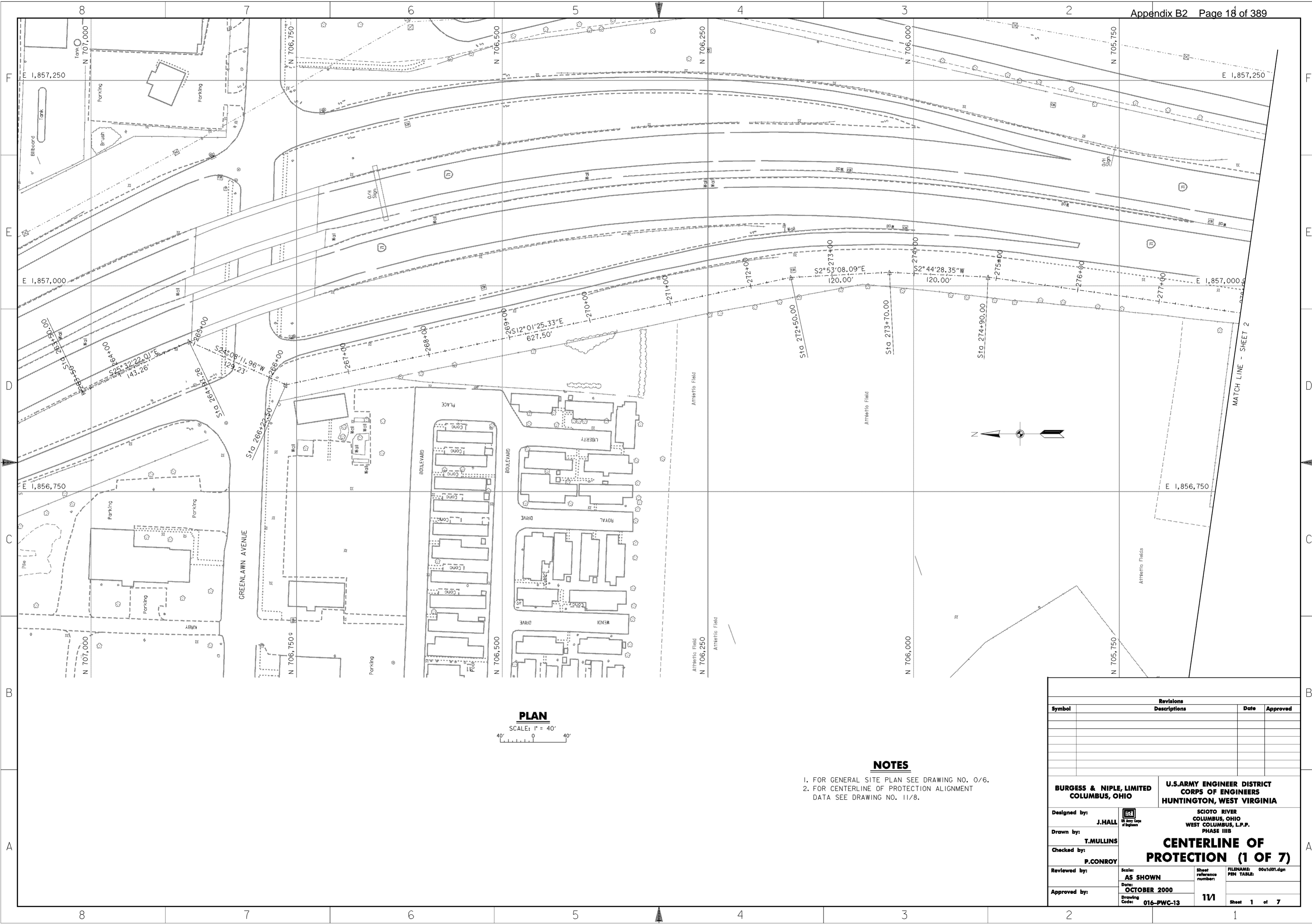
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	P.CONROY Registered Professional Engineer State of Ohio, No. 10487	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: T.MULLINS	Checked by: R.ROMAN	<b>RW MONUMENT</b> <b>PLAN (3 OF 3)</b>	
		Reviewed by:	Scale: <b>AS SHOWN</b>
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 3 of 3

**WORK AS CONSTRUCTED**







**PLAN**  
SCALE: 1" = 40'

**NOTES**

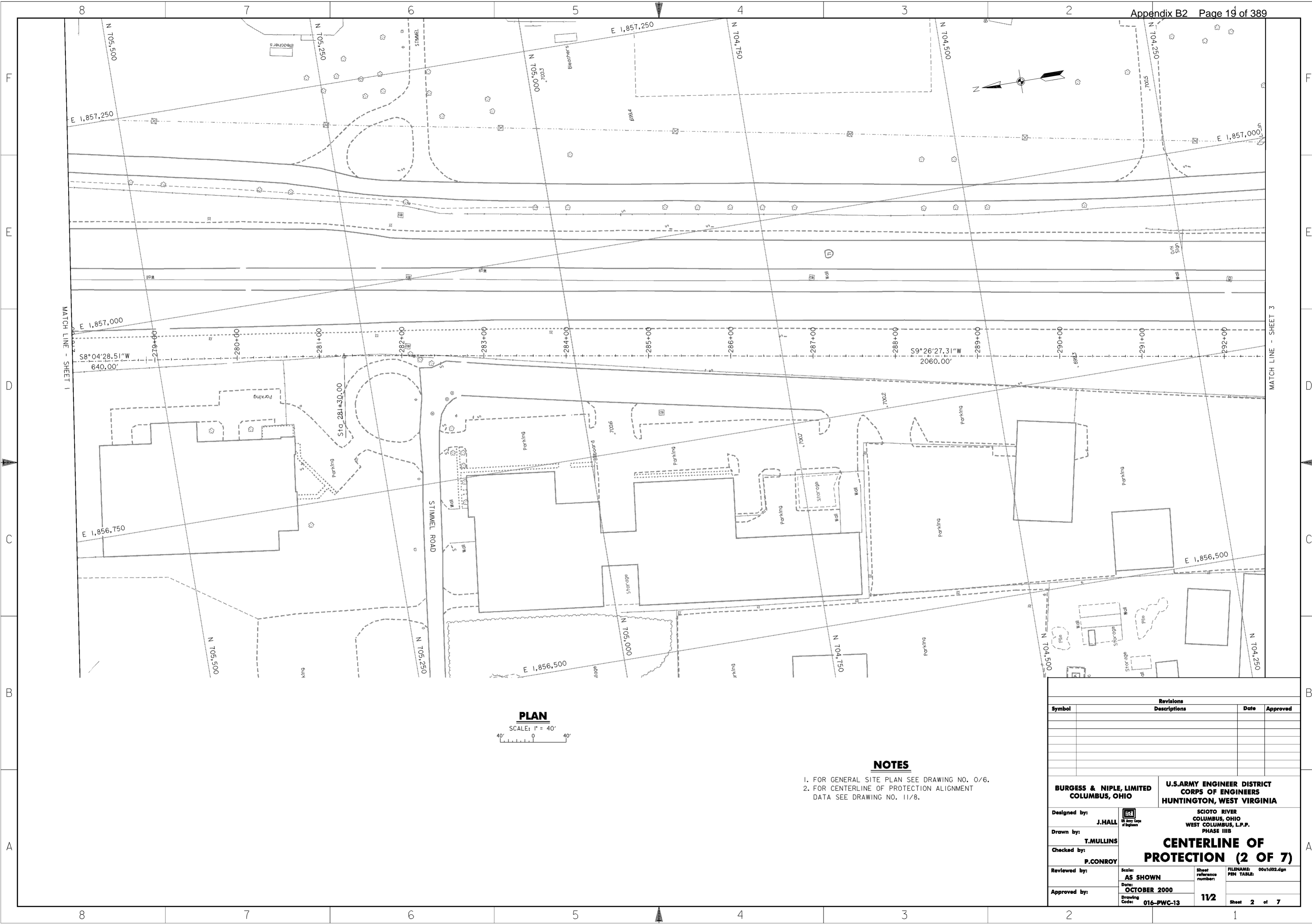
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NO. 11/8.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		Scioto River Columbus, Ohio West Columbus, L.P.P. Phase III B	
Designed by: <b>J. HALL</b>	<p style="text-align: center;"><b>CENTERLINE OF PROTECTION (1 OF 7)</b></p>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by: <b>AS SHOWN</b>			
Approved by:	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>1/1</b>	FILENAME: PEN TABLE: 00c1d01.dgn
Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 7	Sheet 1 of 7	Sheet 1 of 7

**WORK AS CONSTRUCTED**



**PLAN**  
SCALE: 1" = 40'

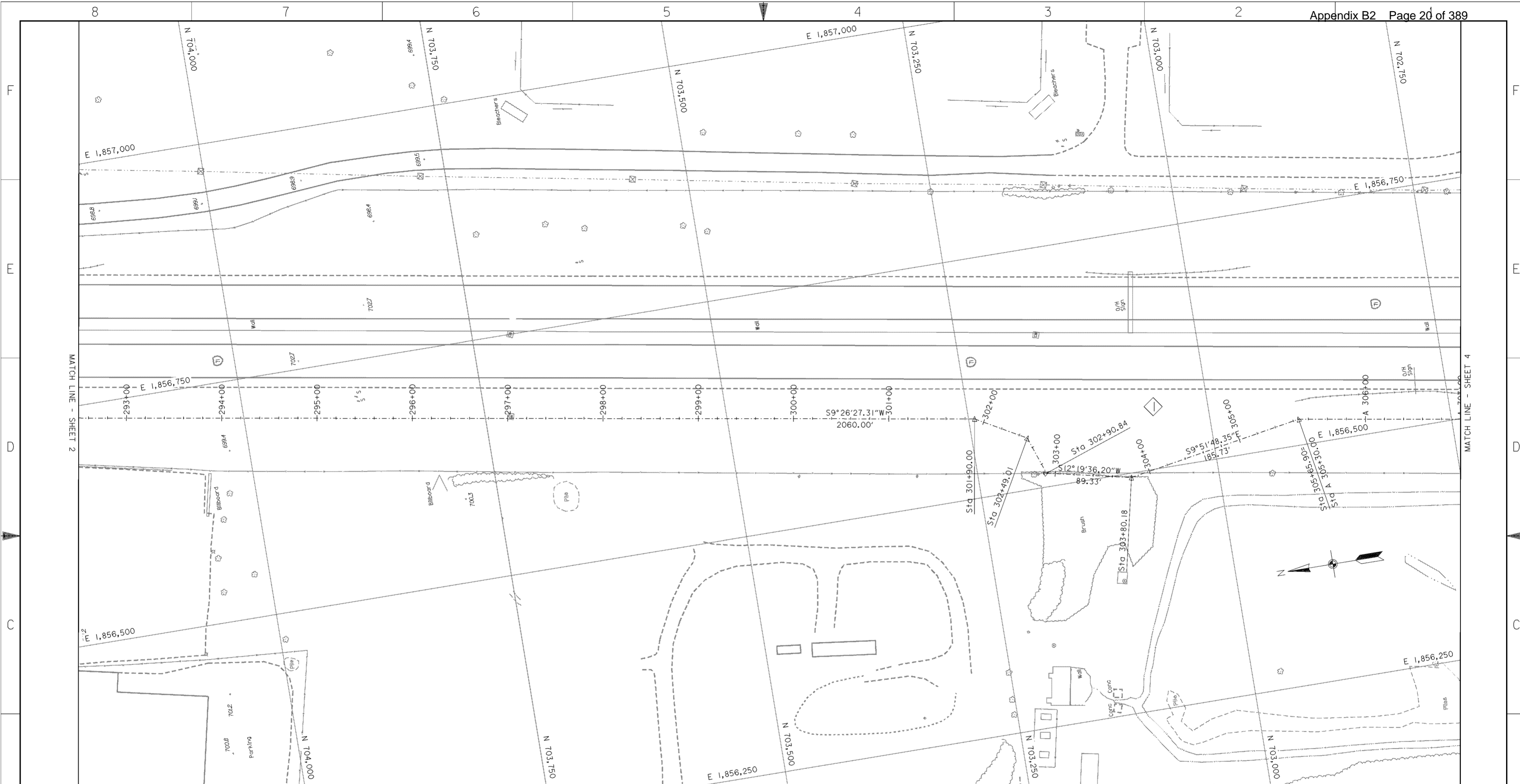
**NOTES**

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

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>J. HALL</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T. MULLINS</b>	
Checked by: <b>P. CONROY</b>	<b>CENTERLINE OF PROTECTION (2 OF 7)</b>
Reviewed by:	
Approved by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>11/2</b> FILENAME: 00c1d02.dgn PIN TABLE: Sheet <b>2</b> of <b>7</b>



**PLAN**  
SCALE: 1" = 40'

**NOTES**

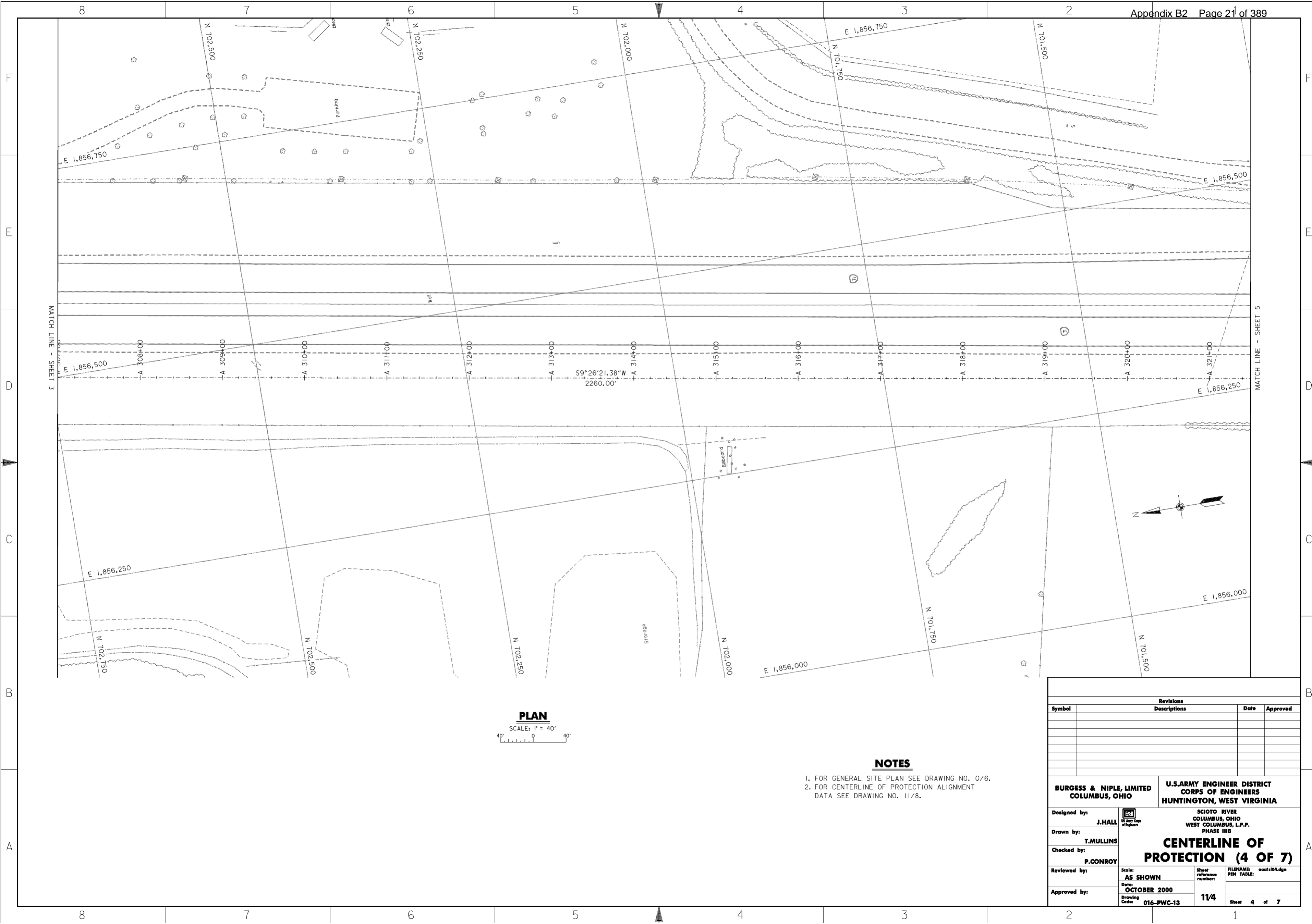
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NO. 11/8.

Revisions			
Symbol	Descriptions	Date	Approved

REV. BY CONTRACT MODIFICATION LETTER MCO02 6/01 P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: <b>J. HALL</b>	<b>SCIOTO RIVER</b> <b>COLUMBUS, OHIO</b> <b>WEST COLUMBUS, L.P.P.</b> <b>PHASE III B</b> <b>CENTERLINE OF PROTECTION (3 OF 7)</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>11/3</b>	FILENAME: aac1c03.dgn PIN TABLE: Sheet <b>3</b> of <b>7</b>

WORK AS CONSTRUCTED



**PLAN**  
SCALE: 1" = 40'

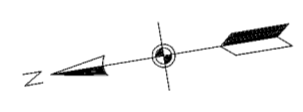
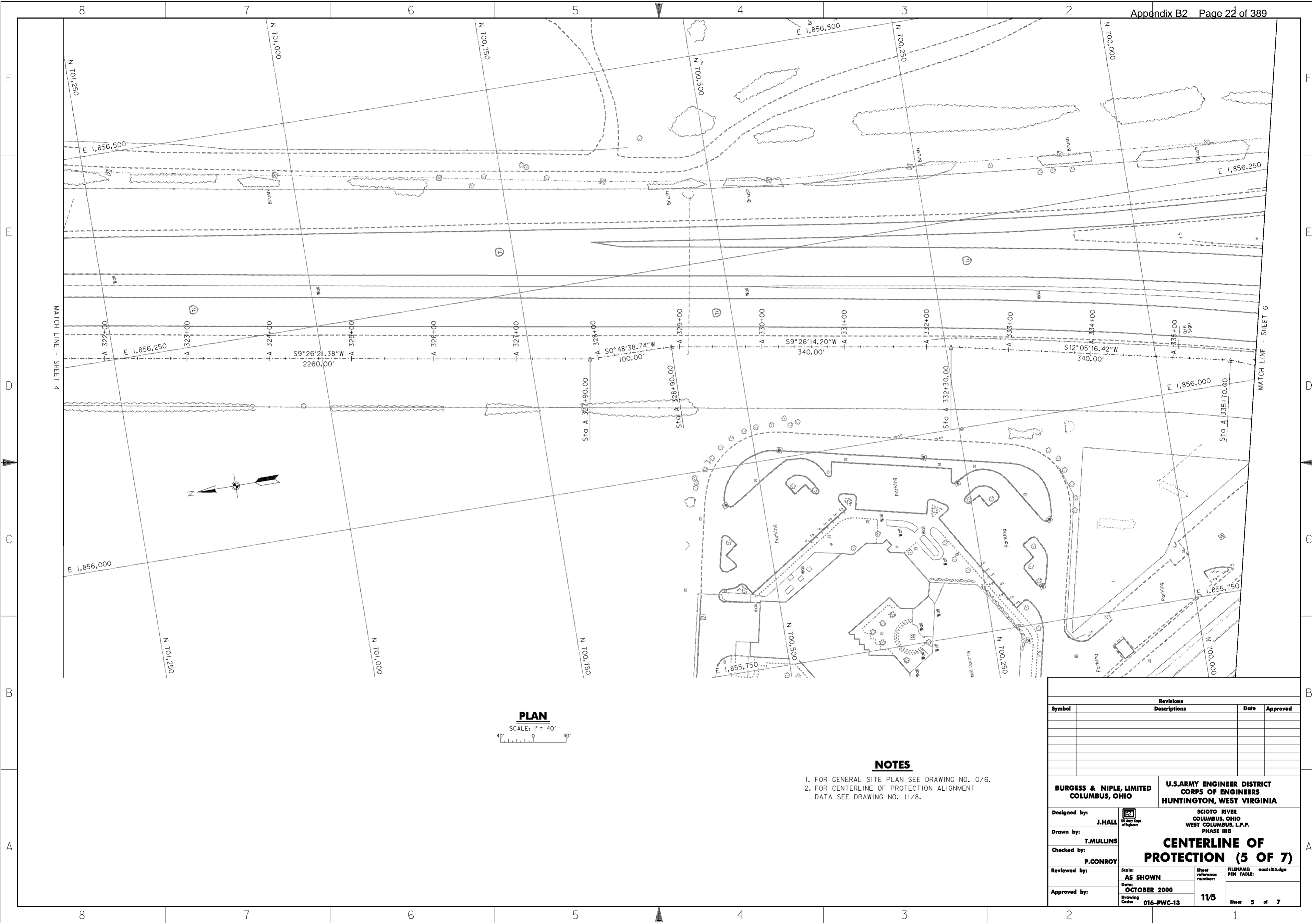
**NOTES**

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

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. HALL</b>	<p style="text-align: center;"><b>CENTERLINE OF PROTECTION (4 OF 7)</b></p>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by: <b>AS SHOWN</b>			
Approved by: _____	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>11/4</b>	FILENAME: PIN TABLE: aact104.dgn
Drawing Code: <b>016-PWC-13</b>	Sheet <b>4</b> of <b>7</b>	Sheet 4 of 7	

**WORK AS CONSTRUCTED**



**PLAN**  
SCALE: 1" = 40'

**NOTES**

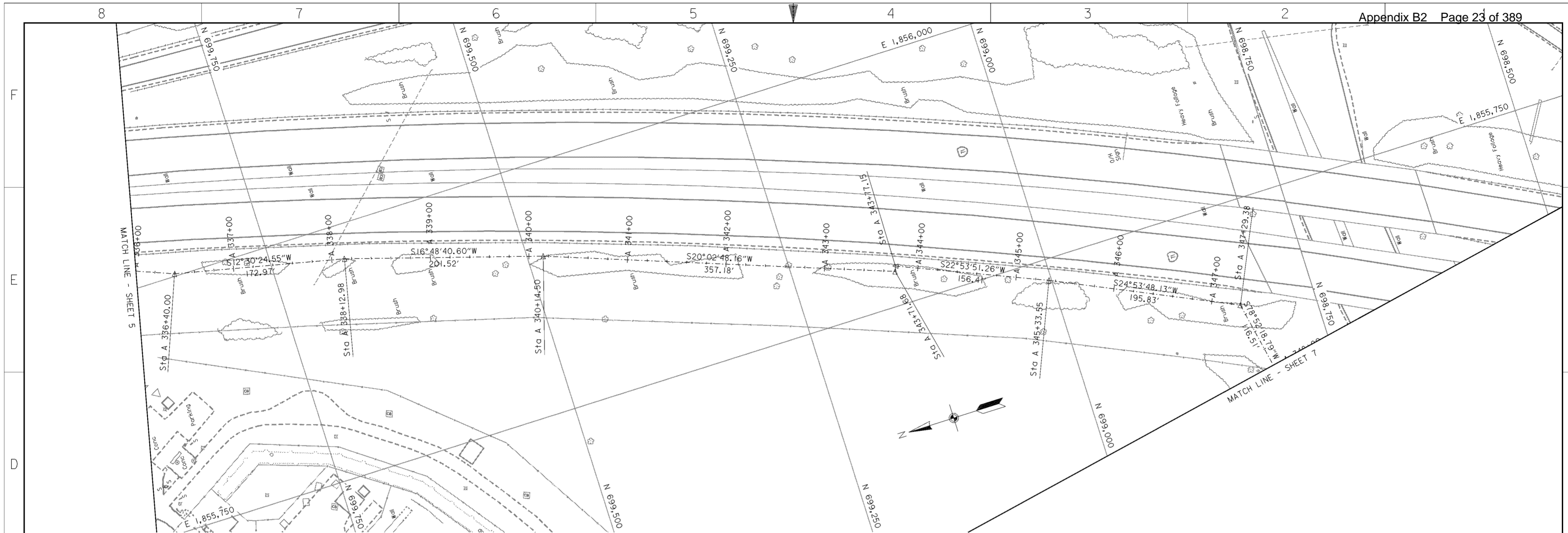
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION ALIGNMENT DATA SEE DRAWING NO. 11/8.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	J. HALL Registered Professional Engineer No. 10456 State of Ohio	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
P. CONROY		AS SHOWN OCTOBER 2000 016-PWC-13	11/5 aact1005.dgn Sheet 5 of 7

**WORK AS CONSTRUCTED**



**PLAN**  
SCALE: 1" = 40'

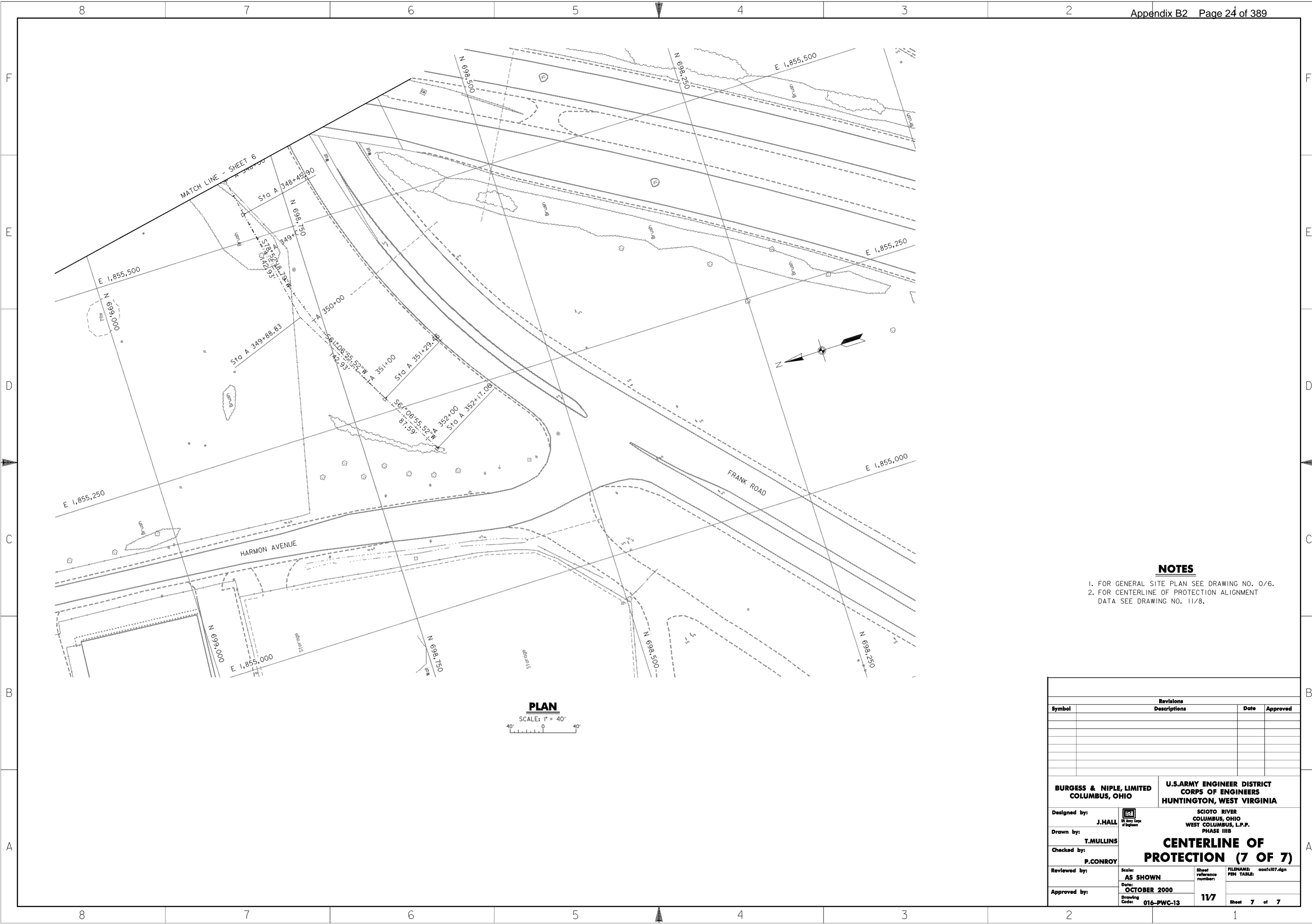
**NOTES**

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

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Designed by: <b>J. HALL</b>	<p style="text-align: center;"><b>CENTERLINE OF PROTECTION (6 OF 7)</b></p>	Drawn by: <b>T. MULLINS</b>
Checked by: <b>P. CONROY</b>		Reviewed by: <b>AS SHOWN</b>
Approved by:		Date: <b>OCTOBER 2000</b>
Drawing Code: <b>016-PWC-13</b>		Sheet reference number: <b>11/6</b>
FILENAME: aact06.dgn		PIN TABLE: Sheet <b>6</b> of <b>7</b>



**PLAN**  
SCALE: 1" = 40'

**NOTES**

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

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. HALL</b>	<p style="text-align: center;"><b>CENTERLINE OF PROTECTION (7 OF 7)</b></p>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>11/7</b>	FILENAME: PIN TABLE: aactd07.dgn
Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>7</b> of <b>7</b>	

**WORK AS CONSTRUCTED**



**HORIZONTAL ALIGNMENT DATA FOR CENTERLINE OF PROTECTION**

STATION	NORTH(Y)	EAST(X)	Element	PI	A	700578.952	1856154.998
263+50.00	707010.142	1856870.681	Element: LINEAR	PI	A 328+90.00	700578.952	1856154.998
264+93.26	706880.876	1856932.447		PI	A 332+30.00	700243.554	1856099.249
Tangent Direction: S 25°32'22.01" E			Tangent Direction: S 9°26'14.20" W				
Tangent Length: 143.265			Tangent Length: 340.000				
264+93.26	706880.876	1856932.447	Element: LINEAR	PI	A 332+30.00	700243.554	1856099.249
266+22.50	706762.942	1856879.602		PI	A 335+70.00	699911.093	1856028.049
Tangent Direction: S 24°08'11.96" W			Tangent Direction: S 12°05'16.42" W				
Tangent Length: 129.232			Tangent Length: 340.000				
266+22.50	706762.942	1856879.602	Element: LINEAR	PI	A 335+70.00	699911.093	1856028.049
272+50.00	706149.206	1857010.321		PI	A 336+40.00	699845.946	1856002.439
Tangent Direction: S 12°01'25.33" E			Tangent Direction: S 21°27'37.20" W				
Tangent Length: 627.502			Tangent Length: 70.000				
272+50.00	706149.206	1857010.321	Element: LINEAR	PI	A 336+40.00	699845.946	1856002.439
273+70.00	706029.358	1857016.362		PI	A 338+12.98	699677.079	1855964.981
Tangent Direction: S 2°53'08.09" E			Tangent Direction: S 12°30'24.55" W				
Tangent Length: 120.000			Tangent Length: 172.972				
273+70.00	706029.358	1857016.362	Element: LINEAR	PI	A 338+12.98	699677.079	1855964.981
274+90.00	705909.495	1857010.623		PI	A 340+14.50	699484.167	1855906.696
Tangent Direction: S 2°44'28.35" W			Tangent Direction: S 16°48'40.60" W				
Tangent Length: 120.000			Tangent Length: 201.525				
274+90.00	705909.495	1857010.623	Element: LINEAR	PI	A 340+14.50	699484.167	1855906.696
281+30.00	705275.838	1856920.727		PI	A 343+71.68	699148.631	1855784.261
Tangent Direction: S 8°04'28.51" W			Tangent Direction: S 20°02'48.16" W				
Tangent Length: 640.002			Tangent Length: 357.176				
281+30.00	705275.838	1856920.727	Element: LINEAR	PI	A 343+71.68	699148.631	1855784.261
301+90.00	703243.737	1856582.824		PI	A 343+77.15	699146.756	1855789.399
Tangent Direction: S 9°26'27.31" W			Tangent Direction: S 69°57'05.61" E				
Tangent Length: 2060.003			Tangent Length: 5.469				
301+90.00	703243.737	1856582.824	Element: LINEAR	PI	A 343+77.15	699146.756	1855789.399
302+49.01	703192.349	1856553.820		PI	A 345+33.55	699002.675	1855728.544
Tangent Direction: S 29°26'25.52" W			Tangent Direction: S 22°53'51.26" W				
Tangent Length: 59.008			Tangent Length: 156.405				
302+49.01	703192.349	1856553.820	Element: LINEAR	PI	A 345+33.55	699002.675	1855728.544
302+90.84	703178.597	1856514.314		PI	A 347+29.38	698825.040	1855646.101
Tangent Direction: S 70°48'23.47" W			Tangent Direction: S 24°53'48.13" W				
Tangent Length: 41.832			Tangent Length: 195.834				
302+90.84	703178.597	1856514.314	Element: LINEAR	PI	A 347+29.38	698825.040	1855646.101
303+80.18	703091.325	1856495.243		PC	A 348+45.90	698802.553	1855531.780
Tangent Direction: S 12°19'36.20" W			Tangent Direction: S 78°52'18.79" W				
Tangent Length: 89.331			Tangent Length: 116.512				
303+80.18	703091.325	1856495.243	Element: LINEAR	PI	A 348+45.90	698802.553	1855531.780
305+30.00	702908.343	1856527.058		PI	A 349+88.83	698774.967	1855391.538
Tangent Direction: S 9°51'48.35" E			Curve Radius: -915.000				
Tangent Length: 185.728			Curve Length: 283.567				
305+30.00	702908.343	1856527.058	Element: LINEAR	PI	A 351+29.46	698705.926	1855266.390
327+90.00	700678.942	1856156.413		PT	A 351+29.46	698705.926	1855266.390
Tangent Direction: S 9°26'21.38" W			Total Central Angle: 17°45'23.27"				
Tangent Length: 2260.001			1st Subtangent Distance: 142.929				
327+90.00	700678.942	1856156.413	2nd Subtangent Distance: 142.929				
328+90.00	700578.952	1856154.998	Element: LINEAR	PI	A 351+29.46	698705.926	1855266.390
Tangent Direction: S 0°48'38.74" W				POE	A 352+17.06	698663.614	1855189.694
Tangent Length: 100.000			Tangent Direction: S 61°06'55.52" W				
328+90.00	700578.952	1856154.998	Tangent Length: 87.593				

**NOTES**

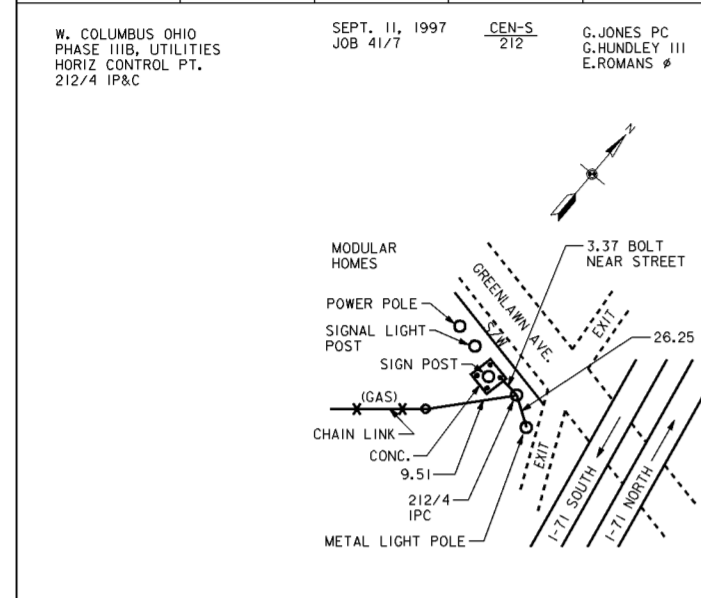
- FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
- FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.

Revisions			
Symbol	Descriptions	Date	Approved

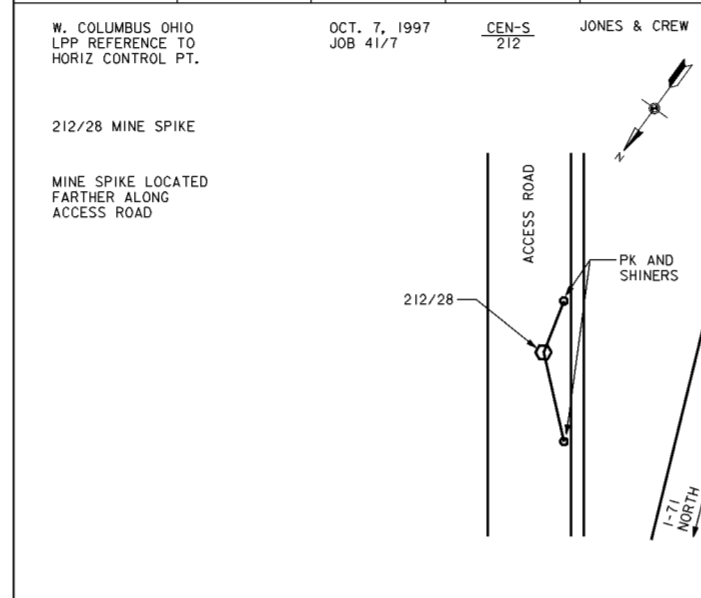
REV. BY CONTRACT MODIFICATION LETTER MCO02	6/01	P.O.C.
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<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J. HALL	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>HORIZONTAL ALIGNMENT</b>
Drawn by: T. MULLINS	
Checked by: P. CONROY	
Reviewed by: Scale: NONE Date: OCTOBER 2000 Drawing Code: 016-PWC-13	
Approved by: Sheet reference number: 11/8	FILENAME: aac1m01.dgn PEN TABLE: Sheet 1 of 1

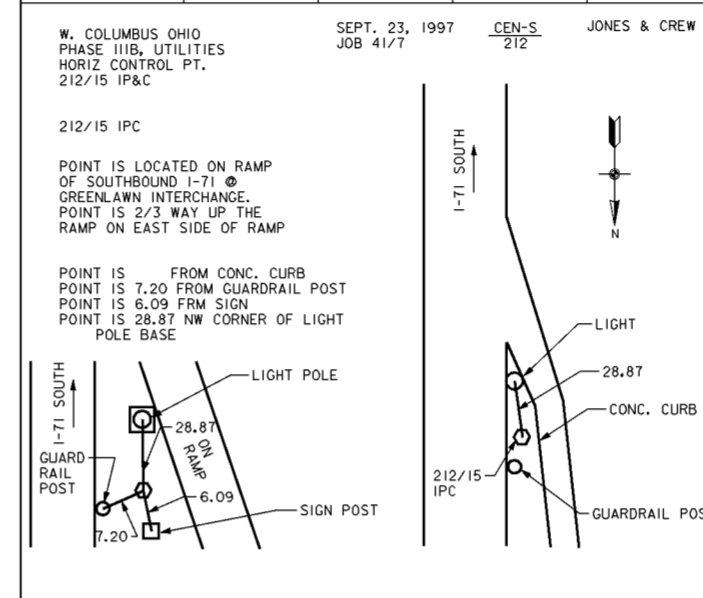
COUNTRY	TYPE OF MARK	STATION	ELEVATION	
U.S.A.	IP&C	212/4	706.914 (FT) 215.314 (M)	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	N/A	
FRANKLIN COUNTY	212/4			
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27	NGVD 29	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
706780.955	1856864.353	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE	ORDER
			9/97	
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH				
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS)	GRID DISTANCE (FEET)
212/17	85°14'04.4"			522.937
212/15	161°16'22.6"			627.773



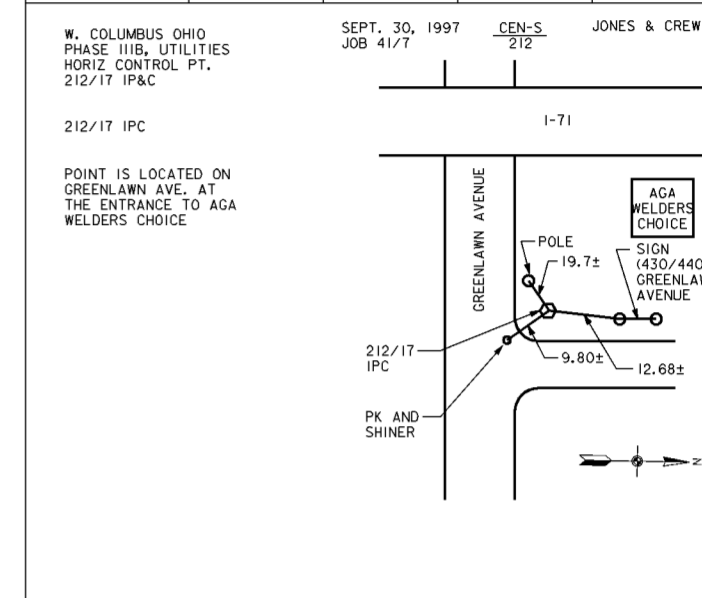
COUNTRY	TYPE OF MARK	STATION	ELEVATION	
U.S.A.	MINE SPIKE	212/28	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	N/A	
FRANKLIN COUNTY	212/28			
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27	NGVD 29	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
707482.981	1857129.758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



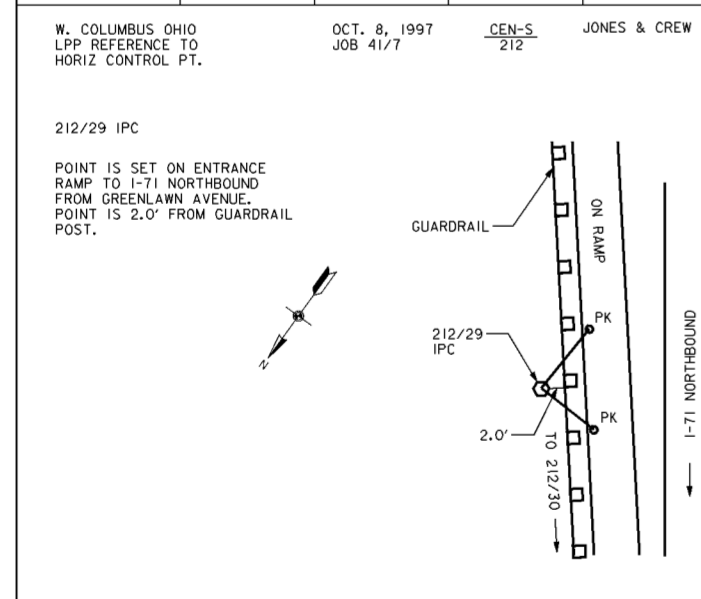
COUNTRY	TYPE OF MARK	STATION	ELEVATION	
U.S.A.	IP&C	212/15	710.399 (FT) 214.599 (M)	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	N/A	
FRANKLIN COUNTY	212/15			
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27	NGVD 29	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
706186.417	1857065.906	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE	ORDER
			9/97	
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH				
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS)	GRID DISTANCE (FEET)
212/4	341°16'22.6"			627.773
212/11	191°13'29.5"			1013.114



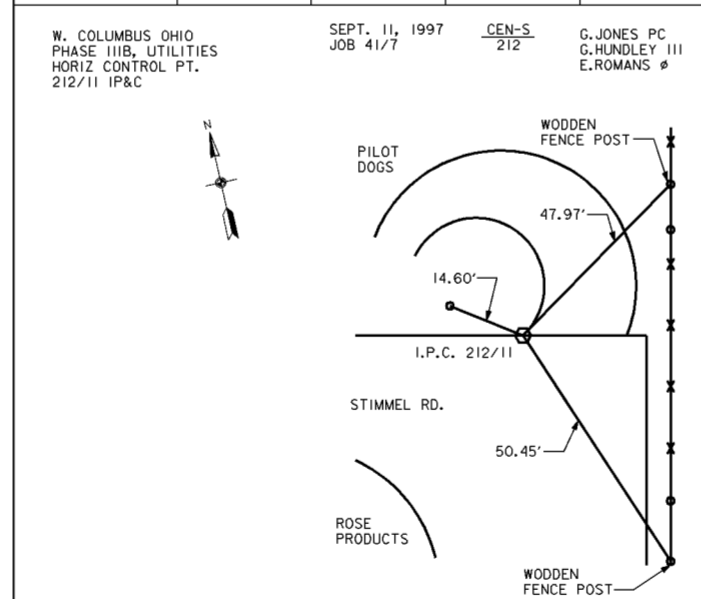
COUNTRY	TYPE OF MARK	STATION	ELEVATION	
U.S.A.	IP&C	212/17	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	N/A	
FRANKLIN COUNTY	212/17			
LATITUDE	LONGITUDE	DATUM	DATUM	
		1927 NGS	1929 NGVD	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
706824.400	1857385.482	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE	ORDER
			9/97	
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH				
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS)	GRID DISTANCE (FEET)
212/23	94°04'45.4"			1811.179
212/4	265°14'04.4"			522.937



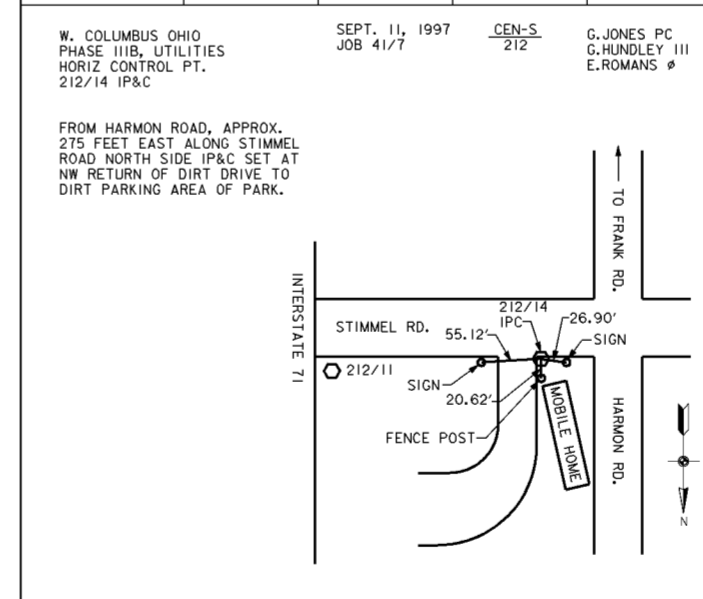
COUNTRY	TYPE OF MARK	STATION	ELEVATION	
U.S.A.	IP&C	212/29	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	N/A	
FRANKLIN COUNTY	212/29			
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27	NGVD 29	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
707331.614	1856900.025	OHIO/SOUTH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



COUNTRY	TYPE OF MARK	STATION	ELEVATION	
U.S.A.	IP&C	212/11	N/A	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	N/A	
FRANKLIN COUNTY	212/11			
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27	NGVD 29	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
705192.683	1856868.693	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE	ORDER
			9/97	
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH				
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS)	GRID DISTANCE (FEET)
212/15	11°13'29.5"			1013.114
212/18	193°42'29.0"			499.449



COUNTRY	TYPE OF MARK	STATION	ELEVATION	
U.S.A.	IP&C	212/14	702.180 (FT) 211.180 (M)	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	N/A	
FRANKLIN COUNTY	212/14			
LATITUDE	LONGITUDE	DATUM	DATUM	
		NAD 27	NGVD 29	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)	
705284.643	1856146.405	OHIO/SOUTH	C.O.E.	
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE	ORDER
			9/97	
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH				
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS)	GRID DISTANCE (FEET)



**ABBREVIATIONS**

- PK SURVEY BOOK NUMBER
- CEN-S TEMPORARY BENCH MARK
- IP&C IRON PIN AND CAP
- TBM CORRUGATED METAL PIPE
- U.S. GEOLOGICAL QUADRANGLE MAP
- NAD NORTH AMERICAN DATUM
- IP&C IRON PIN & CAP
- NGVD NATIONAL GEODETIC VERTICAL DATUM
- GW GUIDE WIRE
- S/W SIDE WALK
- ELE ELECTRIC
- O/H OVERHEAD
- PT POINT
- CB CATCH BASIN

**NOTES**

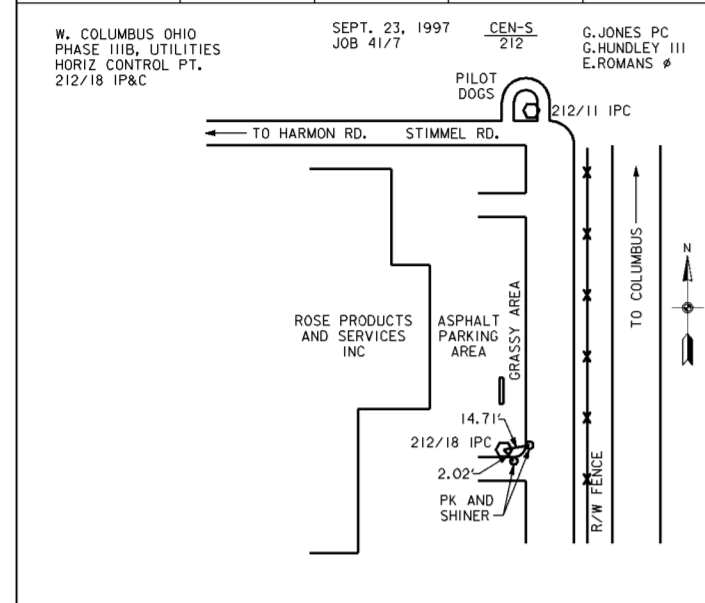
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.

Revisions			
Symbol	Descriptions	Date	Approved

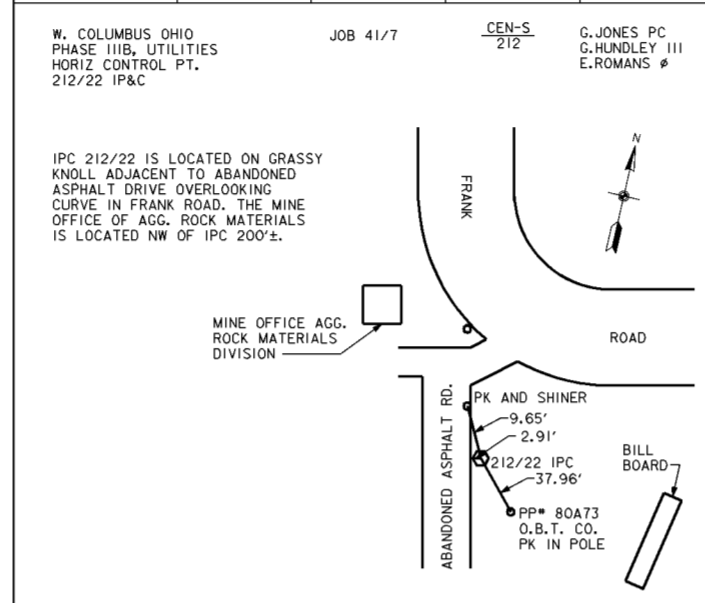
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>COE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>SURVEY</b> <b>REFERENCES (1 OF 3)</b>
Drawn by: <b>A.PUMMELL</b>	
Checked by: <b>P.CONROY</b>	Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Reviewed by:	Sheet reference number: <b>11/9</b> FILENAME: <b>00user01.dgn</b> PIN TABLE: Sheet <b>1</b> of <b>3</b>
Approved by:	

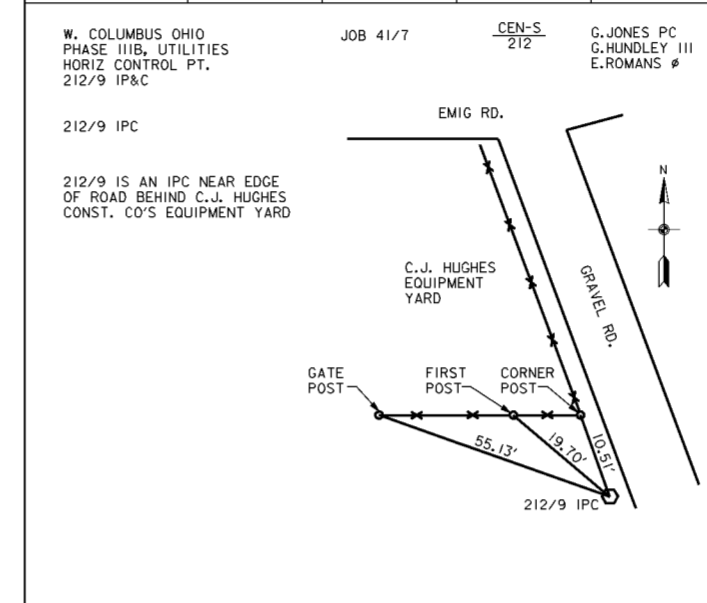
COUNTRY	TYPE OF MARK	STATION	ELEVATION
U.S.A.	IP&C	212/18	N/A
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
FRANKLIN COUNTY	212/18	N/A	704707.460
LATITUDE	LONGITUDE	DATUM	DATUM
		NAD 27	NGVD 29
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
(704707.460)	(1856750.336)	OHIO/SOUTH	C.O.E.
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE
			9/97
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID)	BACK AZIMUTH	GRID DISTANCE (FEET)
212/11	13°42'29.0"		499.449
212/19	186°30'50.8"		1921.913



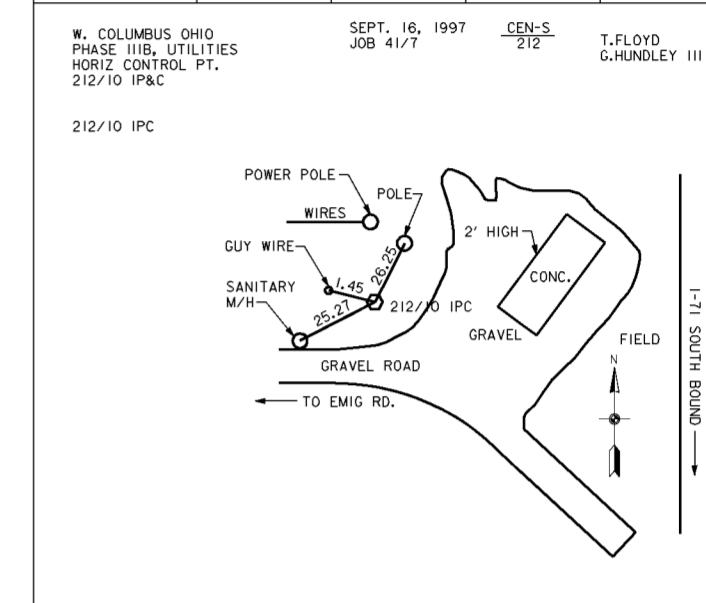
COUNTRY	TYPE OF MARK	STATION	ELEVATION
U.S.A.	IP&C	212/22	N/A
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
FRANKLIN COUNTY	212/22	N/A	697364.311
LATITUDE	LONGITUDE	DATUM	DATUM
		NAD 27	NGVD 29
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
(697364.311)	(1854131.879)	OHIO/SOUTH	C.O.E.
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE
			9/97
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID)	BACK AZIMUTH	GRID DISTANCE (FEET)
212/8	285°46'28.7"		917.160
212/6	37°44'52.0"		1352.932



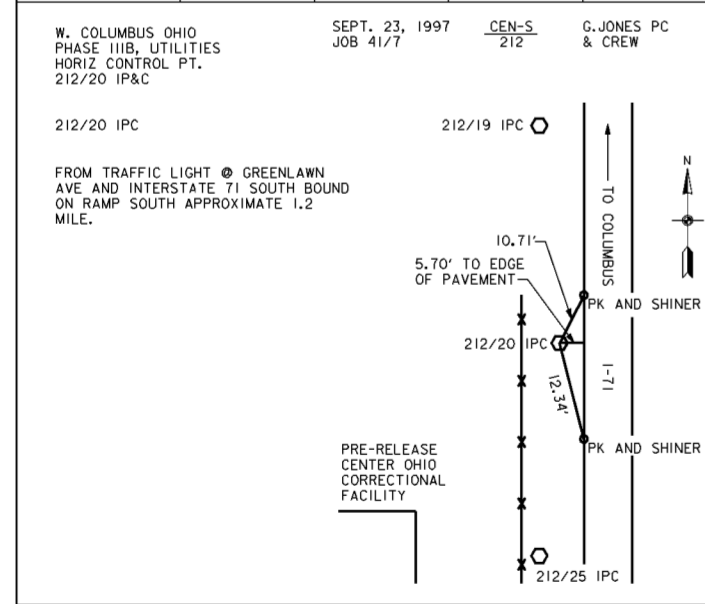
COUNTRY	TYPE OF MARK	STATION	ELEVATION
U.S.A.	IP&C	212/9	711.664
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
FRANKLIN COUNTY	212/9	N/A	703857.440
LATITUDE	LONGITUDE	DATUM	DATUM
		NAD 27	NGVD 29
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
(703857.440)	(1855840.117)	OHIO/SOUTH	C.O.E.
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE
			9/97
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID)	BACK AZIMUTH	GRID DISTANCE (FEET)
212/10	153°49'31.7"		653.726



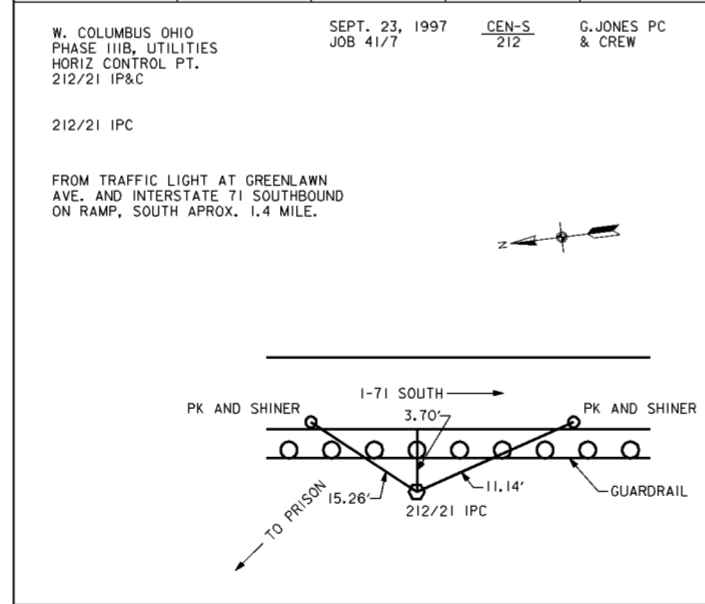
COUNTRY	TYPE OF MARK	STATION	ELEVATION
U.S.A.	IP&C	212/10	N/A
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
FRANKLIN COUNTY	212/10	N/A	703270.751
LATITUDE	LONGITUDE	DATUM	DATUM
		NAD 27	NGVD 29
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
(703270.751)	(1856128.480)	OHIO/SOUTH	C.O.E.
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE
			9/97
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID)	BACK AZIMUTH	GRID DISTANCE (FEET)
212/19	139°29'56.7"		621.776
212/9	333°49'31.7"		653.726



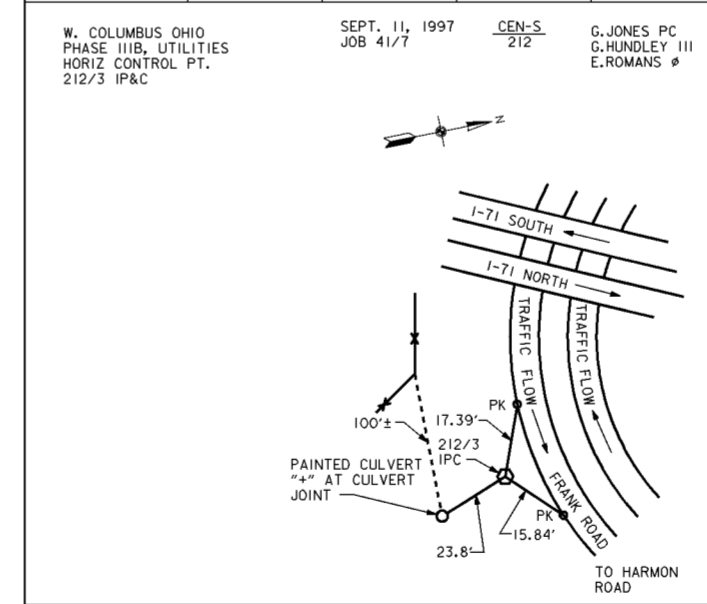
COUNTRY	TYPE OF MARK	STATION	ELEVATION
U.S.A.	IP&C	212/20	702.951
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
FRANKLIN COUNTY	212/20	N/A	700707.195
LATITUDE	LONGITUDE	DATUM	DATUM
		NAD 27	NGVD 29
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
(700707.195)	(1856189.668)	OHIO/SOUTH	C.O.E.
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE
			9/97
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID)	BACK AZIMUTH	GRID DISTANCE (FEET)
212/14	9°23'40.5"		2098.911
212/19	192°30'46.7"		1350.037



COUNTRY	TYPE OF MARK	STATION	ELEVATION
U.S.A.	IP&C	212/21	716.191
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
FRANKLIN COUNTY	212/21	N/A	699409.225
LATITUDE	LONGITUDE	DATUM	DATUM
		NAD 27	NGVD 29
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
(699409.225)	(1855897.188)	OHIO/SOUTH	C.O.E.
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE
			9/97
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID)	BACK AZIMUTH	GRID DISTANCE (FEET)
212/20	12°30'46.7"		1350.037



COUNTRY	TYPE OF MARK	STATION	ELEVATION
U.S.A.	IP&C	212/3	703.877
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
FRANKLIN COUNTY	212/3	N/A	698686.218
LATITUDE	LONGITUDE	DATUM	DATUM
		NAD 27	NGVD 29
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
(698686.218)	(1855418.209)	OHIO/SOUTH	C.O.E.
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE
			9/97
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (GEODETIC/GRID)	BACK AZIMUTH	GRID DISTANCE (FEET)



**ABBREVIATIONS**

- PK PK NAIL
- CEN-S SURVEY BOOK NUMBER
- 212
- TBM TEMPORARY BENCH MARK
- IPC IRON PIN AND CAP
- CMP CORRUGATED METAL PIPE
- QUAD U.S. GEOLOGICAL QUADRANGLE MAP
- NAD NORTH AMERICAN DATUM
- IP&C IRON PIN & CAP
- NGVD NATIONAL GEODETIC VERTICAL DATUM
- GW GUIDE WIRE
- S/W SIDE WALK
- ELE ELECTRIC
- O/H OVERHEAD
- PT POINT
- CB CATCH BASIN

**NOTES**

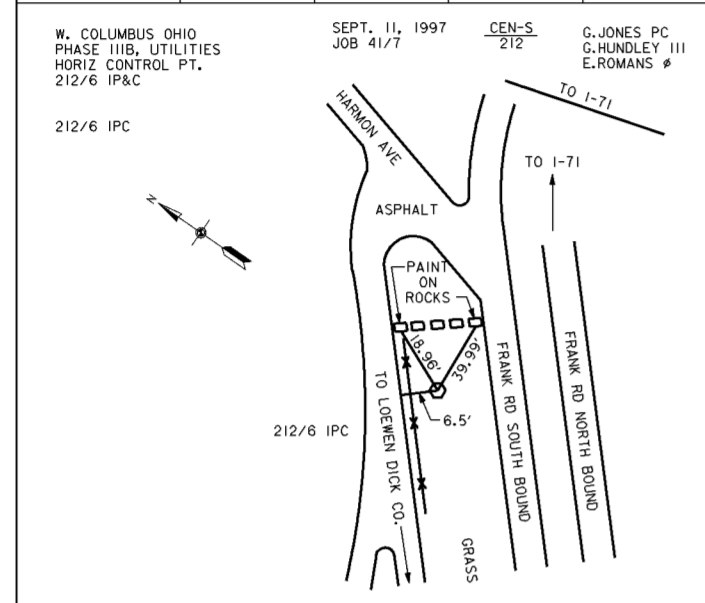
1. FOR GENERAL SITE PLAN SEE DRAWING NO. 0/6.
2. FOR CENTERLINE OF PROTECTION PLANS SEE DRAWING NOS. 11/1 THRU 11/7.

Symbol	Revisions	Date	Approved

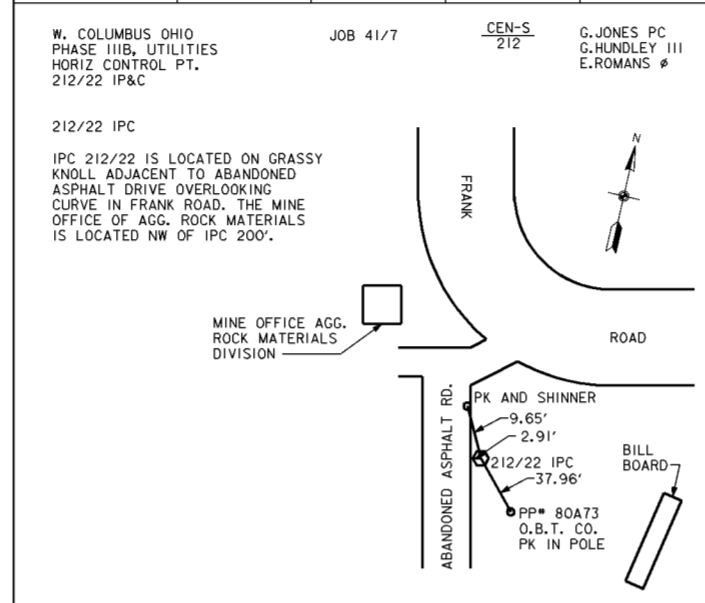
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>COE</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III
Drawn by: <b>A.PUMMELL</b>	<b>SURVEY</b>
Checked by: <b>P.CONROY</b>	<b>REFERENCES (2 OF 3)</b>
Reviewed by:	Scale: <b>NONE</b>
Approved by:	Date: <b>OCTOBER 2000</b>
	Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>11/10</b>
	FILENAME: <b>00user02.dgn</b>
	PIN TABLE:
	Sheet <b>2</b> of <b>3</b>

COUNTRY U.S.A.	TYPE OF MARK IP&C	STATION 212/6	
LOCALITY FRANKLIN COUNTY	STAMPING ON MARK 212/6	AGENCY (LAST IN MARKS) N/A	ELEVATION (FT.) N/A
LATITUDE	LONGITUDE	DATUM NAD 27	DATUM NGVD 29
(NORTHING) (EASTING) 698434.092	(NORTHING) (EASTING) 1854960.126	GRID AND ZONE OHIO/SOUTH	ESTABLISHED BY (AGENCY) C.O.E.
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE 9/97
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (MAGNETIC)	GRID AZIMUTH	GRID DISTANCE (FEET)
212/22	217°44'52.0"		1352.932



COUNTRY U.S.A.	TYPE OF MARK IP&C	STATION 212/22	
LOCALITY FRANKLIN COUNTY	STAMPING ON MARK 212/22	AGENCY (LAST IN MARKS) N/A	ELEVATION (FT.) N/A
LATITUDE	LONGITUDE	DATUM NAD 27	DATUM NGVD 29
(NORTHING) (EASTING) 697364.311	(NORTHING) (EASTING) 1854131.879	GRID AND ZONE OHIO/SOUTH	ESTABLISHED BY (AGENCY) C.O.E.
(NORTHING) (EASTING)	(NORTHING) (EASTING)	GRID AND ZONE	DATE 9/97
TO OBTAIN GRID AZIMUTH ADD TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (MAGNETIC)	GRID AZIMUTH	GRID DISTANCE (FEET)
212/18	285°46'28.7"		917.160
212/20	37°44'52.0"		1352.932



LEVELMAN : PETRUCCI/STROLL (KENDI)	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	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
ELEV. : 702.955	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 11/19-2	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 6'± W. OF W. EDGE PAVED PARKING LOT.
ELEV. : 701.575	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 11/20-1	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.
ELEV. : 720.482	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. : 12

T.B.M. : 11/20-2	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.
ELEV. : 709.128	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 11/22-1	LOCATION : DISK SET IN CONC. PAD OF MANHOLE 12'± N. OF EDGE OF STIMMEL RD. 80'± W. OF "G" ST.
ELEV. : 702.313	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

LEVELMAN : PETRUCCI/STROLL (KENDI)	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	LOCATION : DISK SET AT NORTHWEST CORNER W. MOUND ST. & CYPRESS ST. AT ENT. TO 1082 MOUND ST. IN CONC. SIDEWALK AND S. OF BUILDING
ELEV. : 705.961	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 86/12	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.
ELEV. : 705.571	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 86/12-1	LOCATION : DISK SET ON TOP OF N.E. CORNER OF CONC. PAD OF STEEL LIGHT POLE ON S.W. CORNER OF BUCHMAN DR. AND VAN BUREN DR.
ELEV. : 710.783	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 86/12-2	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.
ELEV. : 711.687	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 86/13	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.
ELEV. : 706.636	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

LEVELMAN : PETRUCCI/STROLL (KENDI)	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	LOCATION : DISK SET IN S. SIDE CONC. DR. 100'± S. OF CENTERLINE OF GRIEGS AVE. 10'± E. OF E. EDGE OF HARMON AVE. NEAR 154 HARMON AVE.
ELEV. : 714.266	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 86/14-1	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.
ELEV. : 716.129	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 86/14-2	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.
ELEV. : 708.916	
DESC. : DISK	
QUAD. :	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 86/17	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.
ELEV. : 704.188	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

T.B.M. : 86/19	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
ELEV. : 713.831	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

LEVELMAN : PETRUCCI/STROLL (KENDI)	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	LOCATION : DISK SET IN TOP OF N.W. CORNER OF CONC. CURB AT "RAM" BUSINESS AT 1191 STIMMEL RD. 33'± S. OF STIMMEL RD.
ELEV. : 713.098	
DESC. : DISK	
QUAD. : S.W. COLUMBUS	
COORD. : N. = E. =	TOPO SHEET NO. :

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

T.B.M. :	LOCATION :
ELEV. :	
DESC. :	
QUAD. :	
COORD. : N. = E. =	TOPO SHEET NO. : 12

T.B.M. :	LOCATION :
ELEV. :	
DESC. :	
QUAD. :	
COORD. : N. = E. =	TOPO SHEET NO. : 12

T.B.M. :	LOCATION :
ELEV. :	
DESC. :	
QUAD. :	
COORD. : N. = E. =	TOPO SHEET NO. : 12

**ABBREVIATIONS**

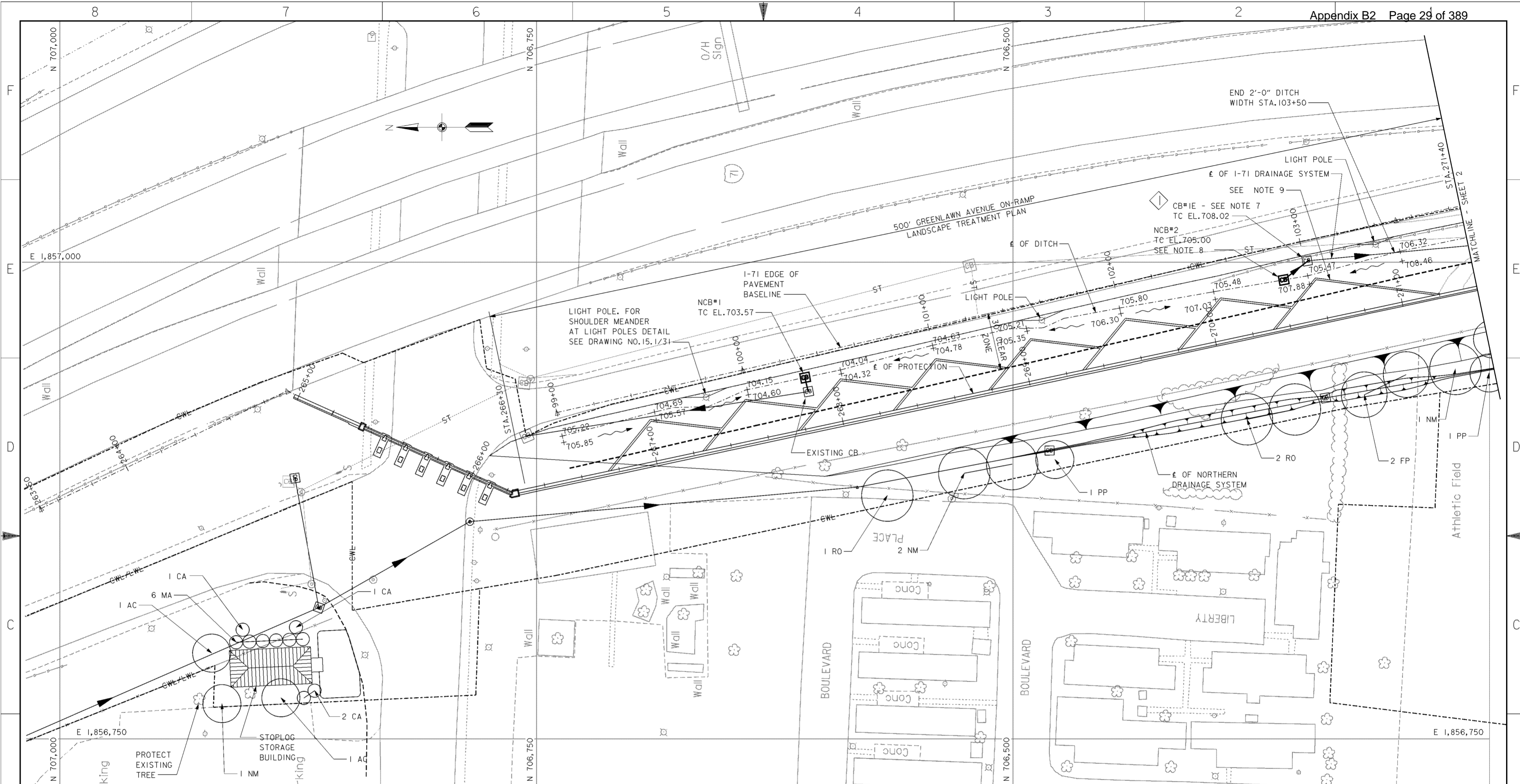
- PK PK NAIL
- CEN-S SURVEY BOOK NUMBER
- 212
- TBM TEMPORARY BENCH MARK
- IPC IRON PIN AND CAP
- CMP CORRUGATED METAL PIPE
- QUAD U.S. GEOLOGICAL QUADRANGLE MAP
- NAD NORTH AMERICAN DATUM
- IP&C IRON PIN & CAP
- NGVD NATIONAL GEODETIC VERTICAL DATUM
- GW GUIDE WIRE
- S/W SIDE WALK
- ELE ELECTRIC
- O/H OVERHEAD
- PT POINT
- CB CATCH BASIN

**NOTES**

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

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>COE</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>A. PUMMELL</b>	
Checked by: <b>P. CONROY</b>	<b>SURVEY</b> <b>REFERENCES (3 OF 3)</b>
Reviewed by:	
Approved by:	Scale: <b>NONE</b>
	Date: <b>OCTOBER 2000</b>
	Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>1/11</b>
	FILENAME: <b>00sur03.dgn</b>
	PIN TABLE: <b>Sheet 3 of 3</b>



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

PLANT LIST				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	#5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
MA	THUJA OCCIDENTALIS 'TECHNY'	MISSION ARBOR VITAE	3-4' HT.	B&B
ACF	ABIES CONCOLOR	'CONCOLOR' WHITE FIR	8-10' HT.	B&B

**NOTES**

- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS.11/1 THRU 11/7.
- FOR GREENLAWN AVENUE ON-RAMP LANDSCAPE TREATMENT PLAN SEE DRAWING NO.12/15.
- FOR NORTHERN DRAINAGE SEE DRAWING NOS.15.1/1 THRU 15.1/24.
- FINAL GRADING ON RIVERSIDE OF E OF PROTECTION SHALL BE SLOPED TO DRAIN POSITIVELY INTO THE I-71 DRAINAGE SYSTEM.
- FOR I-71 CROSS SECTIONS SEE DRAWING NOS.16/54 AND 16/55.
- FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO.15.1/24.
- TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.
- DITCH WIDTH SHALL BE 4'-0" WIDE FOR 5' EACH SIDE OF CATCH BASIN.
- SALVAGE EXISTING PLANTER MOW STRIPS WHERE POSSIBLE AND REPLACE AFTER FINISH GRADE. TYPICAL ALL PLANTERS.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. BY CONTRACT MODIFICATION LETTER MC049	5/03	P.O.C.

**BURGESS & NIPLE, LIMITED**  
COLUMBUS, OHIO

Designed by: **A. ENGLISH**  
Drawn by: **T. MULLINS**  
Checked by: **R. MORSE**  
Reviewed by:

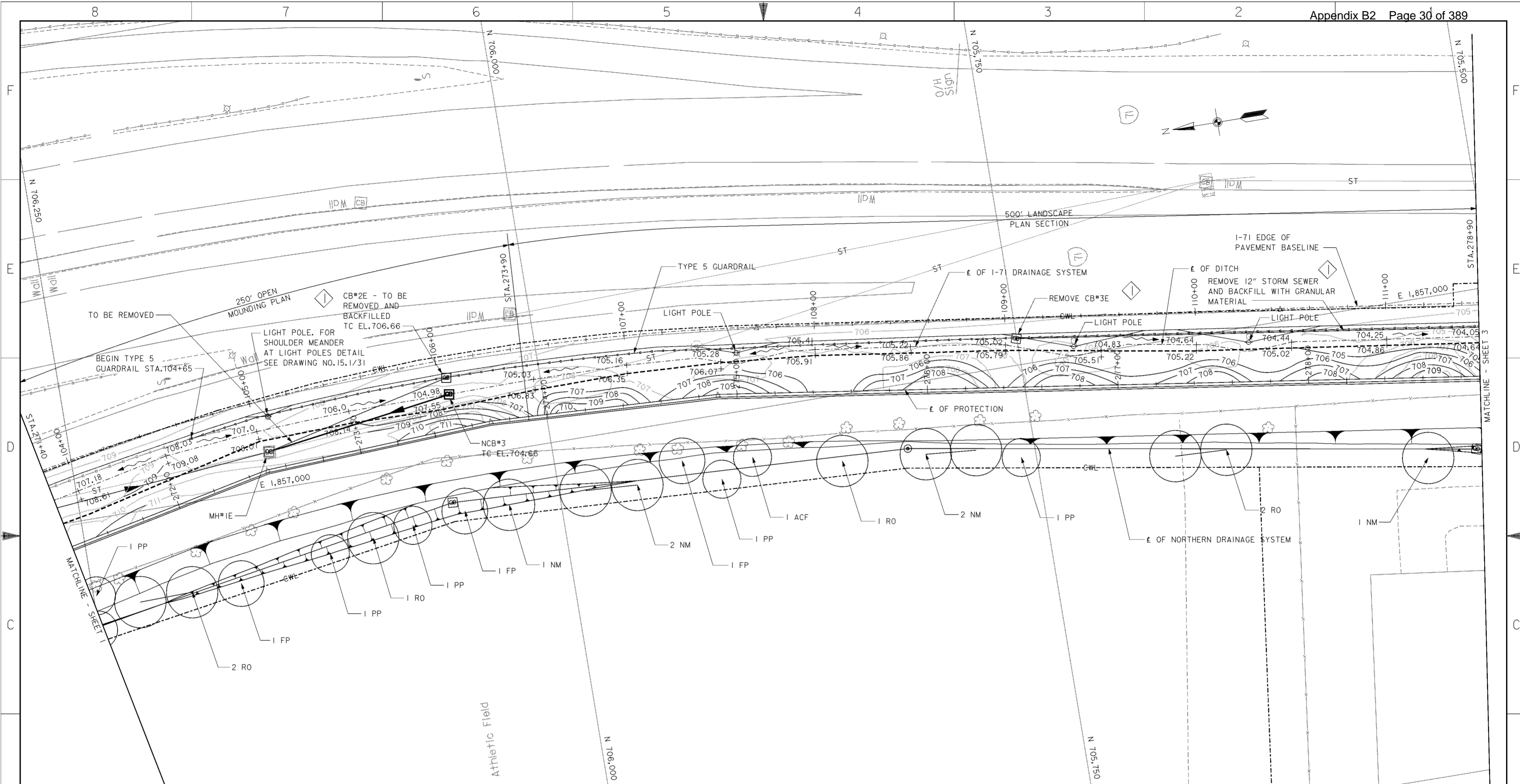
**U.S. ARMY ENGINEER DISTRICT**  
**CORPS OF ENGINEERS**  
HUNTINGTON, WEST VIRGINIA

SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS, L.P.P.  
PHASE III B

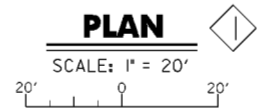
**LANDSCAPING PLAN (1 OF 12)**

Scale: **AS SHOWN**  
Date: **OCTOBER 2000**  
Drawing Code: **016-PWC-13**

Sheet reference number: **12/1**  
FILENAME: 00lsp01.dgn  
PEN TABLE:  
Sheet 1 of 12



PLANT LIST				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	3/8" HT.	#5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10" HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
ACF	ABIES CONCOLOR	'CONCOLOR' WHITE FIR	8-10' HT.	B&B

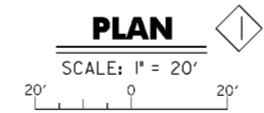
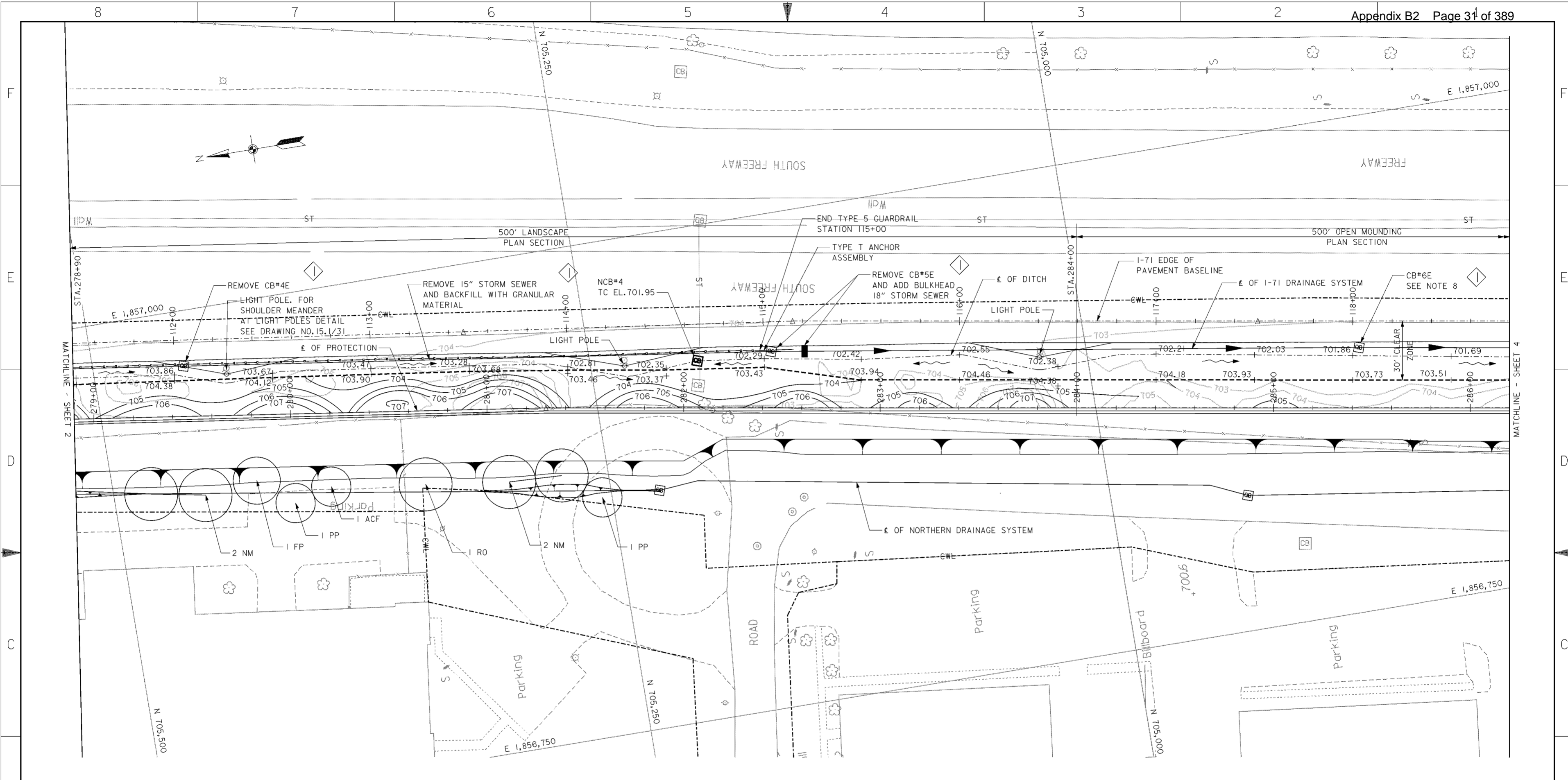


- NOTES**
- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
  - FOR 250' OPEN MOUNDING PLAN AND 500' LANDSCAPE PLAN DETAILS SEE DRAWING NO. 12/14.
  - FOR NORTHERN DRAINAGE SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
  - FINAL GRADING ON RIVERSIDE OF E OF PROTECTION SHALL BE SLOPED TO DRAIN POSITIVELY INTO THE I-71 DRAINAGE SYSTEM.
  - FOR I-71 CROSS SECTIONS SEE DRAWING NOS. 16/55 THRU 16/58.
  - FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO. 15.1/24.
  - FOR GUARDRAIL AND ANCHOR ASSEMBLY REQUIREMENTS SEE DRAWING NO. 15.1/25.
  - TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.
  - DITCH WIDTH SHALL BE 4'-0" WIDE FOR 5' EACH SIDE OF CATCH BASIN.

Symbol	Revisions Descriptions	Date	Approved

REV. BY CONTRACT MODIFICATION LETTER MCO49 5/03 P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO  Designed by: <b>A. ENGLISH</b>  Drawn by: <b>T. MULLINS</b>  Checked by: <b>R. MORSE</b>  Reviewed by: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA  SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B  <b>LANDSCAPING</b> <b>PLAN (2 OF 12)</b>
	FILENAME: 00lpa02.dgn PEN TABLE:
	Sheet reference number: 12/2 Sheet 2 of 12



**NOTES**

1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
2. FOR 250' OPEN MOUNDING PLAN AND 500' LANDSCAPE PLAN DETAILS SEE DRAWING NO. 12/14.
3. FOR NORTHERN DRAINAGE SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
4. FINAL GRADING ON RIVERSIDE OF E OF PROTECTION SHALL BE SLOPED TO DRAIN POSITIVELY INTO THE I-71 DRAINAGE SYSTEM.
5. FOR I-71 CROSS SECTIONS AND CENTERLINE OF DITCH ELEVATIONS SEE DRAWING NOS. 16/58 THRU 16/60.
6. FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO. 15.1/24.
7. FOR GUARDRAIL AND ANCHOR ASSEMBLY REQUIREMENTS SEE DRAWING NO. 15.1/25.
8. TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.
9. DITCH WIDTH SHALL BE 4'-0" WIDE FOR 5' EACH SIDE OF CATCH BASIN.

**PLANT LIST**

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	3/8" HT.	*5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
ACF	ABIES CONCOLOR	'CONCOLOR' WHITE FIR	8-10' HT.	B&B

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. BY CONTRACT MODIFICATION LETTER MCO49	5/03	P.O.C.

**BURGESS & NIPL, LIMITED**  
COLUMBUS, OHIO

Designed by: **A. ENGLISH**

Drawn by: **T. MULLINS**

Checked by: **R. MORSE**

Reviewed by:

Approved by:

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

SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS, L.P.P.  
PHASE III B

**LANDSCAPING**  
**PLAN (3 OF 12)**

Scale: **AS SHOWN**

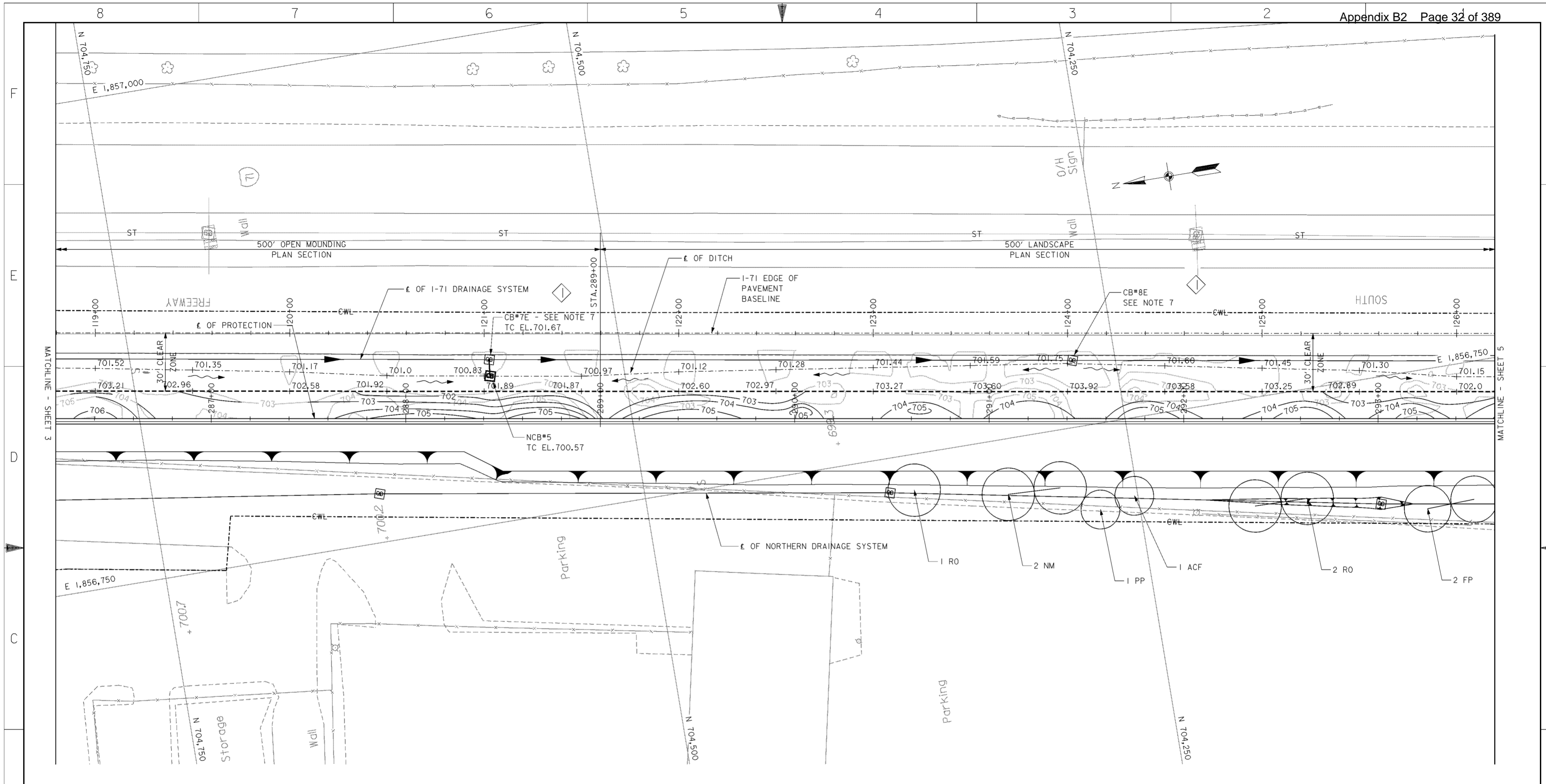
Date: **OCTOBER 2000**

Drawing Code: **016-PWC-13**

Sheet reference number: **12/3**

FILENAME: 00lsp03.dgn  
PEN TABLE:

Sheet **3** of **12**



PLAN  
SCALE: 1" = 20'

PLANT LIST				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBIRIAN DOGWOOD	36" HT.	*5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
ACF	ABIES CONCOLOR	'CONCOLOR' WHITE FIR	8-10' HT.	B&B

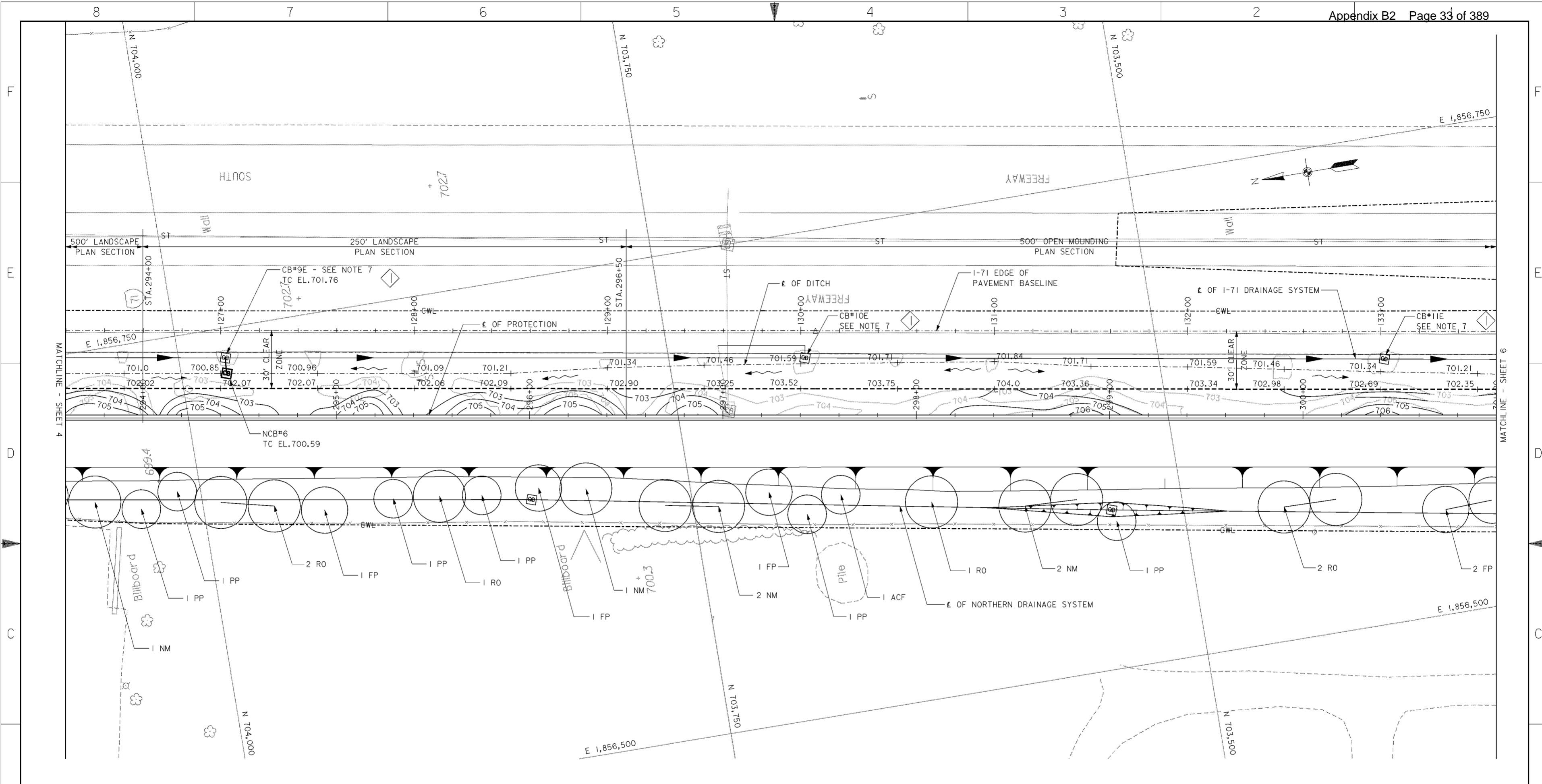
- NOTES**
- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS.11/1 THRU 11/7.
  - FOR 250' OPEN MOUNDING PLAN AND 500' LANDSCAPE PLAN DETAILS SEE DRAWING NO.12/14.
  - FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS.15.1/1 THRU 15.1/24.
  - FINAL GRADING ON RIVERSIDE OF E OF PROTECTION SHALL BE SLOPED TO DRAIN POSITIVELY INTO THE I-71 DRAINAGE SYSTEM.
  - FOR I-71 CROSS SECTIONS SEE DRAWING NOS.16/60 THRU 16/63.
  - FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO.15.1/24.
  - TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.

Revisions			
Symbol	Descriptions	Date	Approved

REV. BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED COLUMBUS, OHIO</b>	<b>U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>
Designed by: <b>A. ENGLISH</b>	<b>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</b>  <b>LANDSCAPING PLAN (4 OF 12)</b>
Drawn by: <b>T. MULLINS</b>	
Checked by: <b>R. MORSE</b>	
Reviewed by:	
Approved by:	
Scale: <b>AS SHOWN</b>	Sheet reference number: <b>12/4</b>
Date: <b>OCTOBER 2000</b>	FILENAME: PIN TABLE: 00lsp04.dgn
Drawing Code: <b>016-PWC-13</b>	Sheet <b>4</b> of <b>12</b>





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

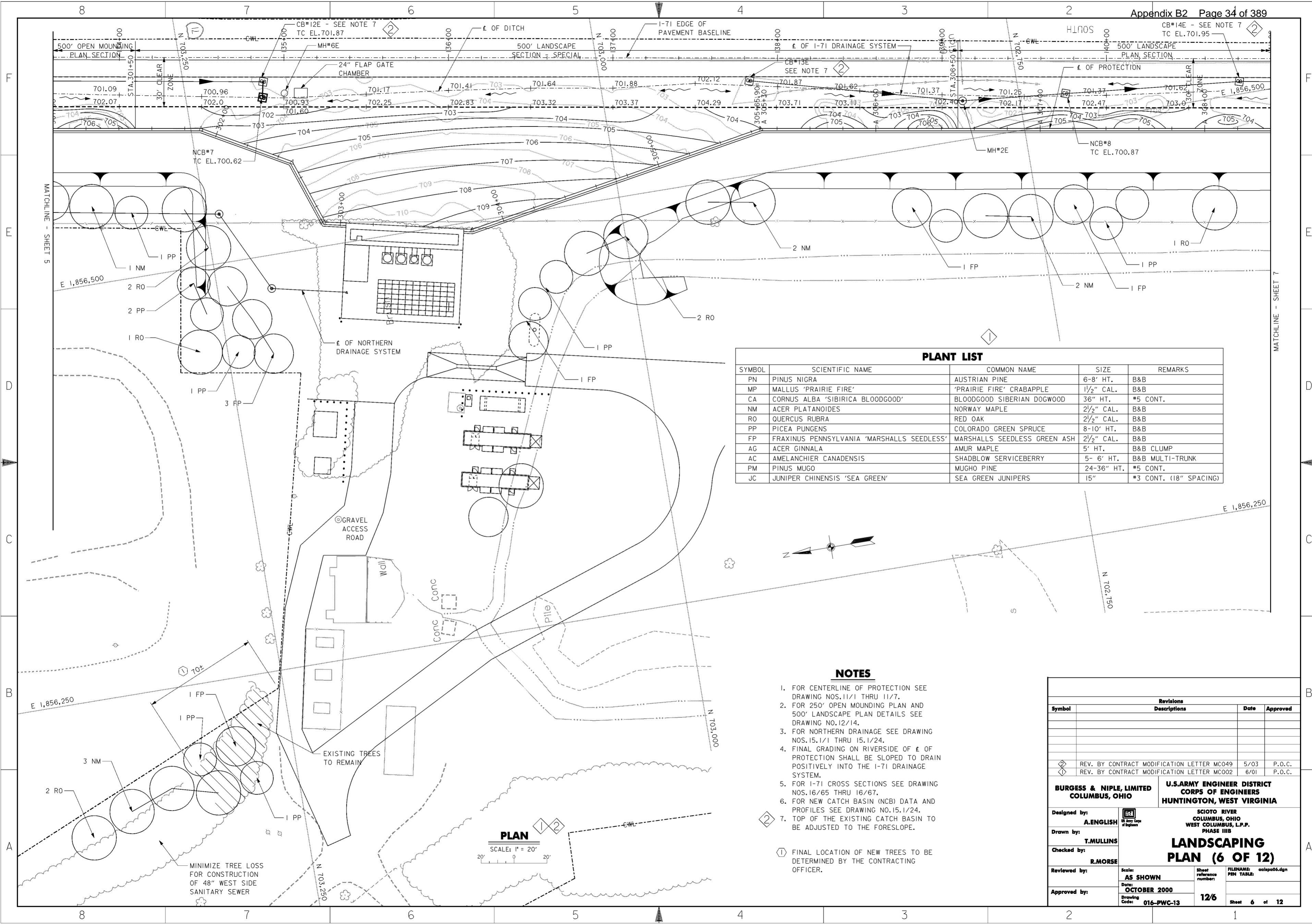
PLANT LIST				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	#5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
ACF	ABIES CONCOLOR	'CONCOLOR' WHITE FIR	8-10' HT.	B&B

- NOTES**
- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
  - FOR 250' OPEN MOUNDING PLAN AND 500' LANDSCAPE PLAN DETAILS SEE DRAWING NO. 12/14.
  - FOR NORTHERN DRAINAGE SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
  - FINAL GRADING ON RIVERSIDE OF  $\epsilon$  OF PROTECTION SHALL BE SLOPED TO DRAIN POSITIVELY INTO THE I-71 DRAINAGE SYSTEM.
  - FOR I-71 CROSS SECTIONS SEE DRAWING NOS. 16/63 THRU 16/65.
  - FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO. 15.1/24.
  - TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.

Revisions			
Symbol	Descriptions	Date	Approved

REV. BY CONTRACT MODIFICATION LETTER MCO49 5/03 P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Designed by: <b>A. ENGLISH</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>R. MORSE</b> Reviewed by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>12/5</b> FILENAME: 00lsp05.dgn PIN TABLE: Sheet 5 of 12



### PLANT LIST

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	#5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
AG	ACER GINNALA	AMUR MAPLE	5' HT.	B&B CLUMP
AC	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	5- 6' HT.	B&B MULTI-TRUNK
PM	PINUS MUGO	MUGHO PINE	24-36" HT.	#5 CONT.
JC	JUNIPER CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPERS	15"	#3 CONT. (18" SPACING)

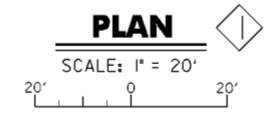
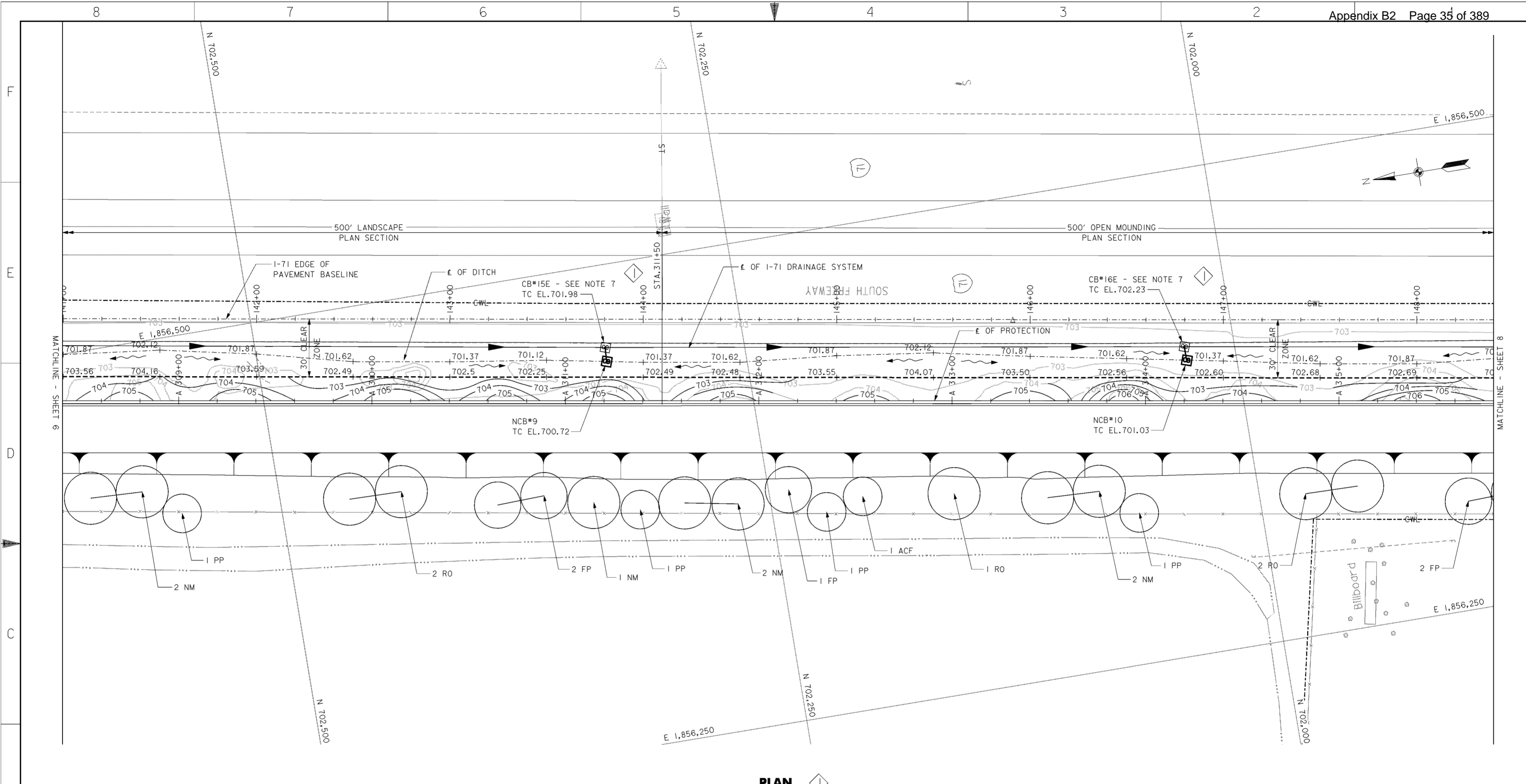
- ### NOTES
- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
  - FOR 250' OPEN MOUNDING PLAN AND 500' LANDSCAPE PLAN DETAILS SEE DRAWING NO. 12/14.
  - FOR NORTHERN DRAINAGE SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
  - FINAL GRADING ON RIVERSIDE OF E OF PROTECTION SHALL BE SLOPED TO DRAIN POSITIVELY INTO THE I-71 DRAINAGE SYSTEM.
  - FOR I-71 CROSS SECTIONS SEE DRAWING NOS. 16/65 THRU 16/67.
  - FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO. 15.1/24.
  - TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.
- ① FINAL LOCATION OF NEW TREES TO BE DETERMINED BY THE CONTRACTING OFFICER.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REV. BY CONTRACT MODIFICATION LETTER MC049	5/03	P.O.C.
◇	REV. BY CONTRACT MODIFICATION LETTER MC002	6/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>A. ENGLISH</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>R. MORSE</b> Reviewed by: Approved by:	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <h3 style="text-align: center;">LANDSCAPING PLAN (6 OF 12)</h3> Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
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FILENAME: calapa06.dgn  
 Sheet reference number: **12/6**  
 Sheet **6** of **12**

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



**PLANT LIST**

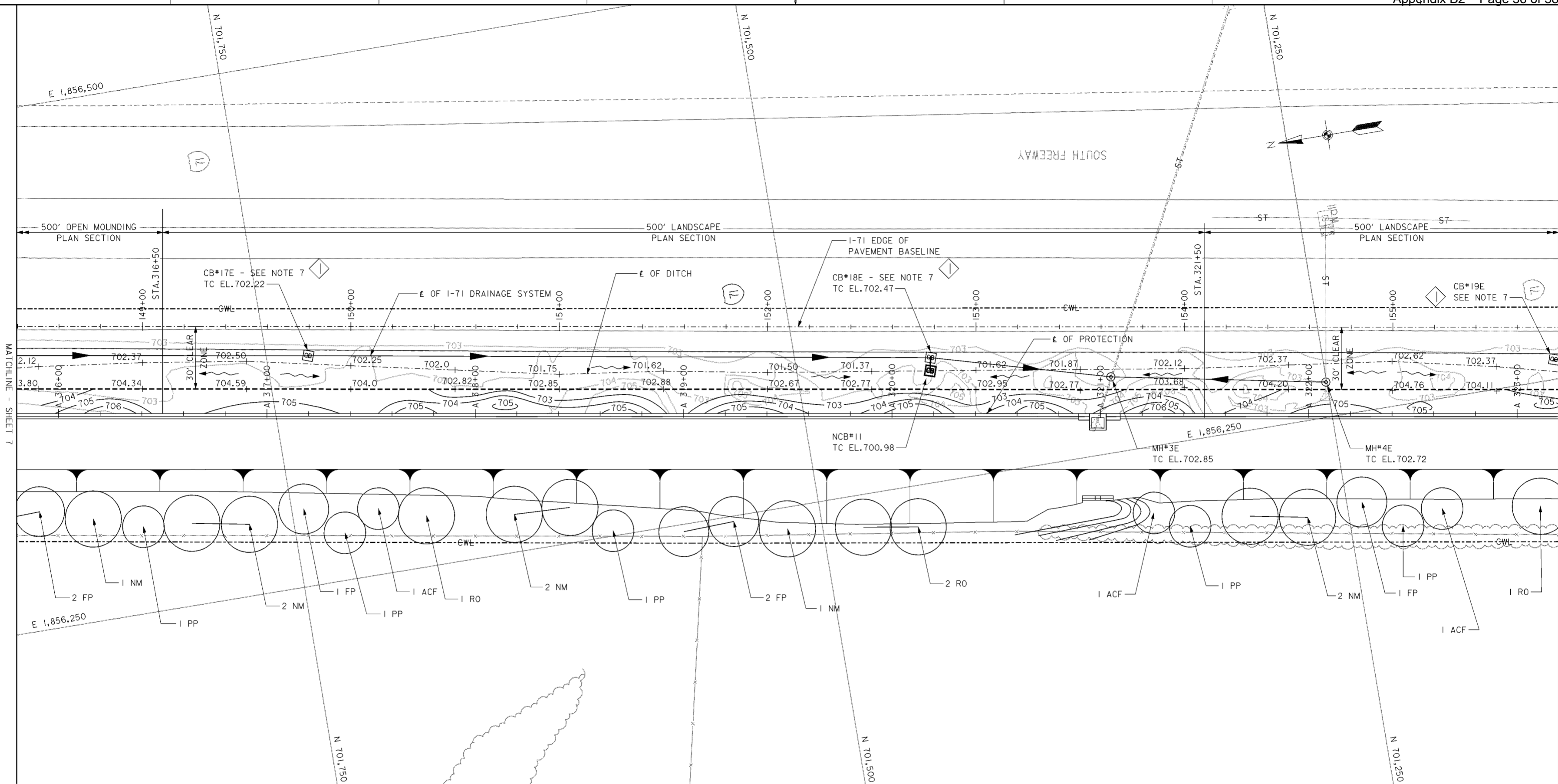
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	#5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
ACF	ABIES CONCOLOR	'CONCOLOR' WHITE FIR	8-10' HT.	B&B

- NOTES**
- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
  - FOR 250' OPEN MOUNDING PLAN AND 500' LANDSCAPE PLAN DETAILS SEE DRAWING NO. 12/14.
  - FOR NORTHERN DRAINAGE SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
  - FINAL GRADING ON RIVERSIDE OF  $\epsilon$  OF PROTECTION SHALL BE SLOPED TO DRAIN POSITIVELY INTO THE I-71 DRAINAGE SYSTEM.
  - FOR I-71 CROSS SECTIONS SEE DRAWING NOS. 16/68 THRU 16/70.
  - FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO. 15.1/24.
  - TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. BY CONTRACT MODIFICATION LETTER MCO49	5/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		Scioto River Columbus, Ohio West Columbus, L.P.P. PHASE III B	
Designed by: <b>A. ENGLISH</b>	<b>LANDSCAPING</b> <b>PLAN (7 OF 12)</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>R. MORSE</b>			
Reviewed by: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b>			
Approved by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>12/7</b>	FILENAME: 00lspc07.dgn PEN TABLE: Sheet <b>7</b> of <b>12</b>



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

**NOTES**

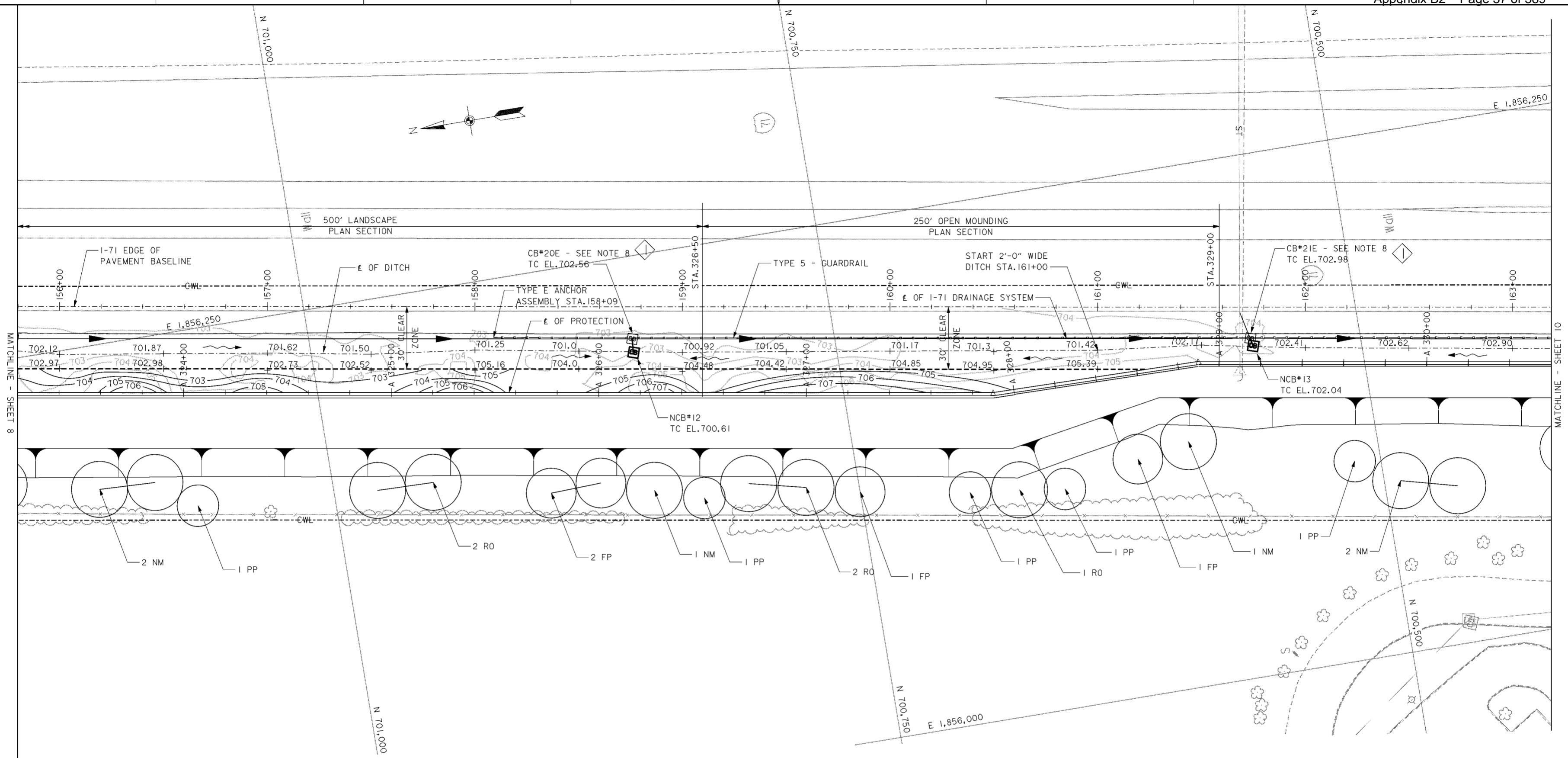
- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS.11/1 THRU 11/7.
- FOR 250' OPEN MOUNDING PLAN AND 500' LANDSCAPE PLAN DETAILS SEE DRAWING NO.12/14.
- FOR NORTHERN DRAINAGE SEE DRAWING NOS.15.1/1 THRU 15.1/24.
- FINAL GRADING ON RIVERSIDE OF  $\epsilon$  OF PROTECTION SHALL BE SLOPED TO DRAIN POSITIVELY INTO THE I-71 DRAINAGE SYSTEM.
- FOR I-71 CROSS SECTIONS SEE DRAWING NOS.16/70 THRU 16/72.
- FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO.15.1/24.
- TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.

**PLANT LIST**

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	*5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
ACF	ABIES CONCOLOR	'CONCOLOR' WHITE FIR	8-10' HT.	B&B

Revisions			
Symbol	Descriptions	Date	Approved
REV. BY CONTRACT MODIFICATION LETTER MCO49		5/03	P.O.C.

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>A. ENGLISH</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>R. MORSE</b> Reviewed by:	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>LANDSCAPING PLAN (8 OF 12)</b>
Approved by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
FILENAME: 00lsp08.dgn SHEET REFERENCE NUMBER: <b>12/8</b> Sheet <b>8</b> of <b>12</b>	



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

- NOTES**
- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
  - FOR 250' OPEN MOUNDING PLAN AND 500' LANDSCAPE PLAN DETAILS SEE DRAWING NO. 12/14.
  - FOR NORTHERN DRAINAGE SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
  - FINAL GRADING ON RIVERSIDE OF E OF PROTECTION SHALL BE SLOPED TO DRAIN POSITIVELY INTO THE I-71 DRAINAGE SYSTEM.
  - FOR I-71 CROSS SECTIONS AND CENTERLINE OF DITCH ELEVATIONS SEE DRAWING NOS. 16/73 THRU 16/75.
  - FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO. 15.1/24.
  - FOR GUARDRAIL AND ANCHOR ASSEMBLY REQUIREMENTS SEE DRAWING NO. 15.1/25.
  - TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.
  - DITCH WIDTH SHALL BE 4'-0" WIDE FOR 5' EACH SIDE OF CATCH BASIN.

**PLANT LIST**

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	#5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B

Revisions		Date	Approved
Symbol	Descriptions		

REV. BY CONTRACT MODIFICATION LETTER MCO49 5/03 P.O.C.

**BURGESS & NIPL, LIMITED**  
COLUMBUS, OHIO

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

Designed by: **A. ENGLISH**

Drawn by: **T. MULLINS**

Checked by: **R. MORSE**

Reviewed by: **AS SHOWN**

Approved by: **OCTOBER 2000**

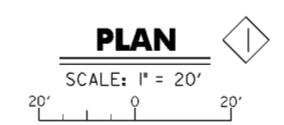
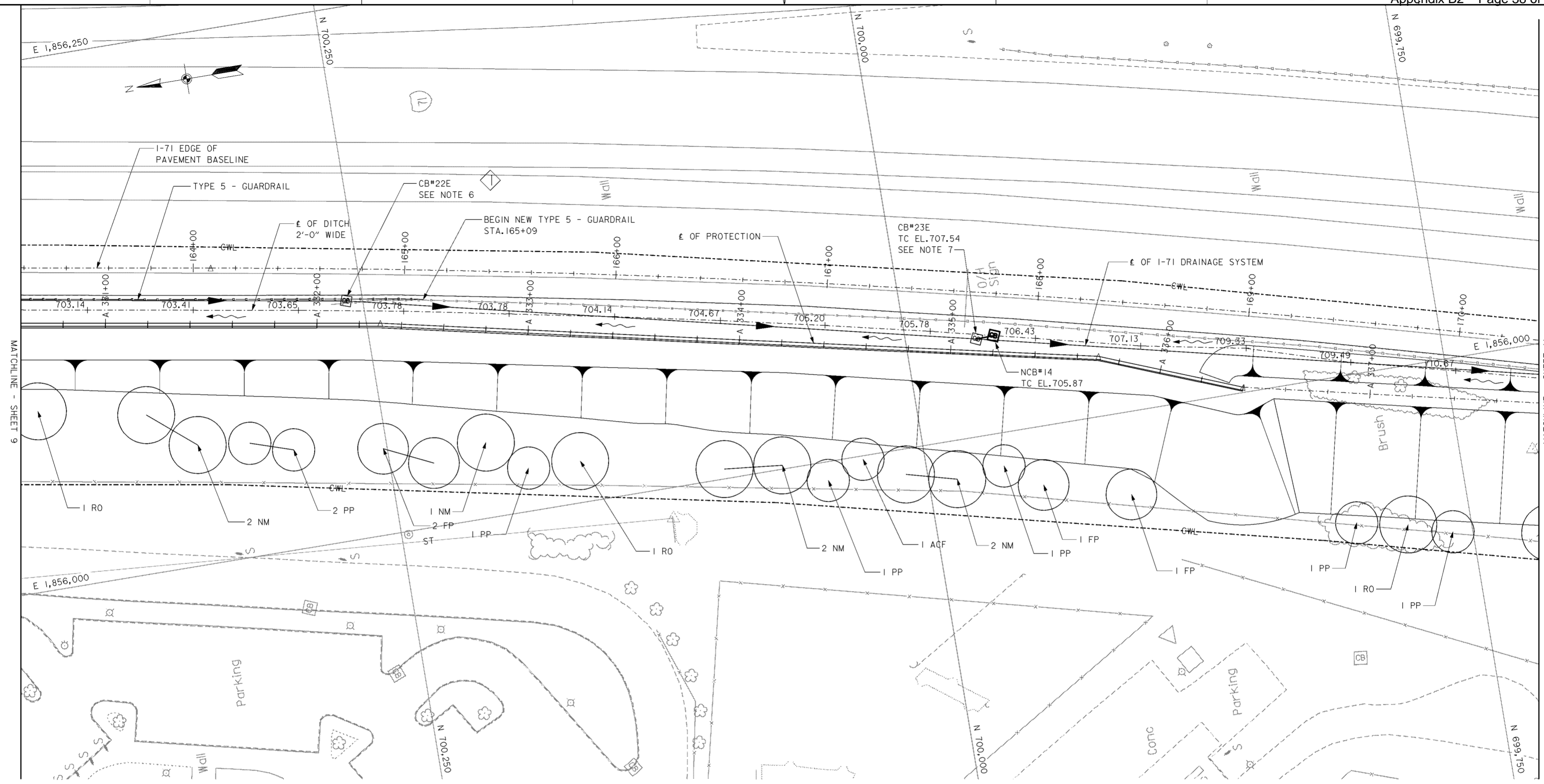
Drawing Code: **016-PWC-13**

SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS, L.P.P.  
PHASE III B

**LANDSCAPING PLAN (9 OF 12)**

Sheet reference number: **12/9**

FILENAME: 00lspc09.dgn  
PIN TABLE:  
Sheet **9** of **12**



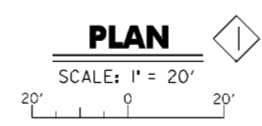
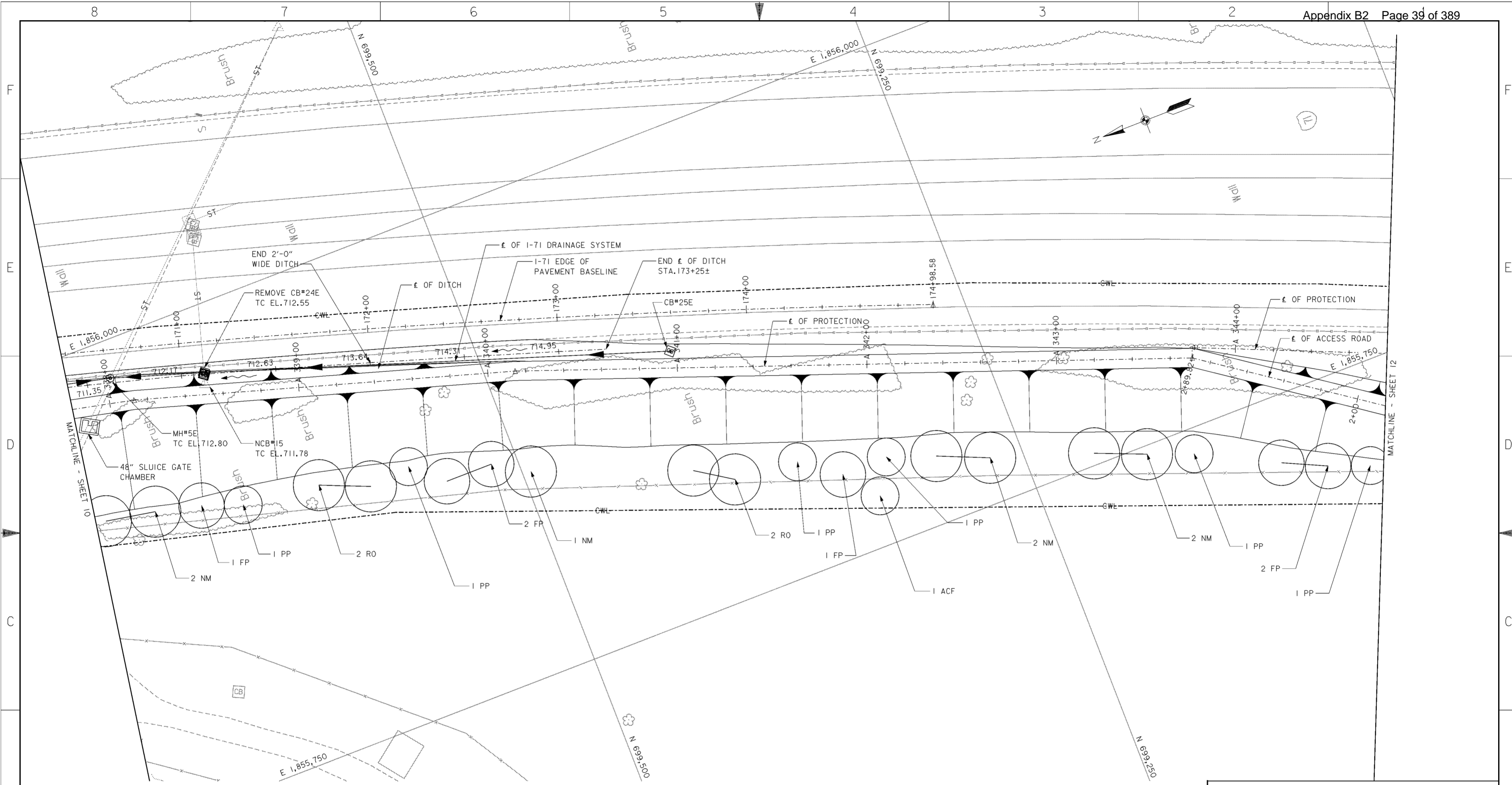
PLANT LIST				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	*5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
ACF	ABIES CONCOLOR	'CONCOLOR' WHITE FIR	8-10' HT.	B&B

- NOTES**
- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
  - FOR NORTHERN DRAINAGE SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
  - FOR 1-71 CROSS SECTIONS AND CENTERLINE OF DITCH ELEVATIONS SEE DRAWING NOS. 16/75 THRU 16/77.
  - FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO. 15.1/24.
  - FOR GUARDRAIL AND ANCHOR ASSEMBLY REQUIREMENTS SEE DRAWING NO. 15.1/25.
  - TOP OF THE EXISTING CATCH BASIN TO BE ADJUSTED TO THE FORESLOPE.
  - TOP OF EXISTING CATCH BASIN TO BE ADJUSTED TO GRADE.
  - DITCH WIDTH SHALL BE 4'-0" WIDE FOR 5' EACH SIDE OF CATCH BASIN.

Revisions			
Symbol	Descriptions	Date	Approved

REV. BY CONTRACT MODIFICATION LETTER MCO49 5/03 P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>A. ENGLISH</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>LANDSCAPING PLAN (10 OF 12)</b>
Drawn by: <b>T. MULLINS</b>	
Checked by: <b>R. MORSE</b>	
Reviewed by: <b>AS SHOWN</b>	
Approved by: Date: <b>OCTOBER 2000</b>	FILENAME: 001pe10.dgn PEN TABLE: Drawing Code: <b>016-PWC-13</b>
Sheet reference number: <b>12/10</b>	
Sheet <b>10</b> of <b>12</b>	



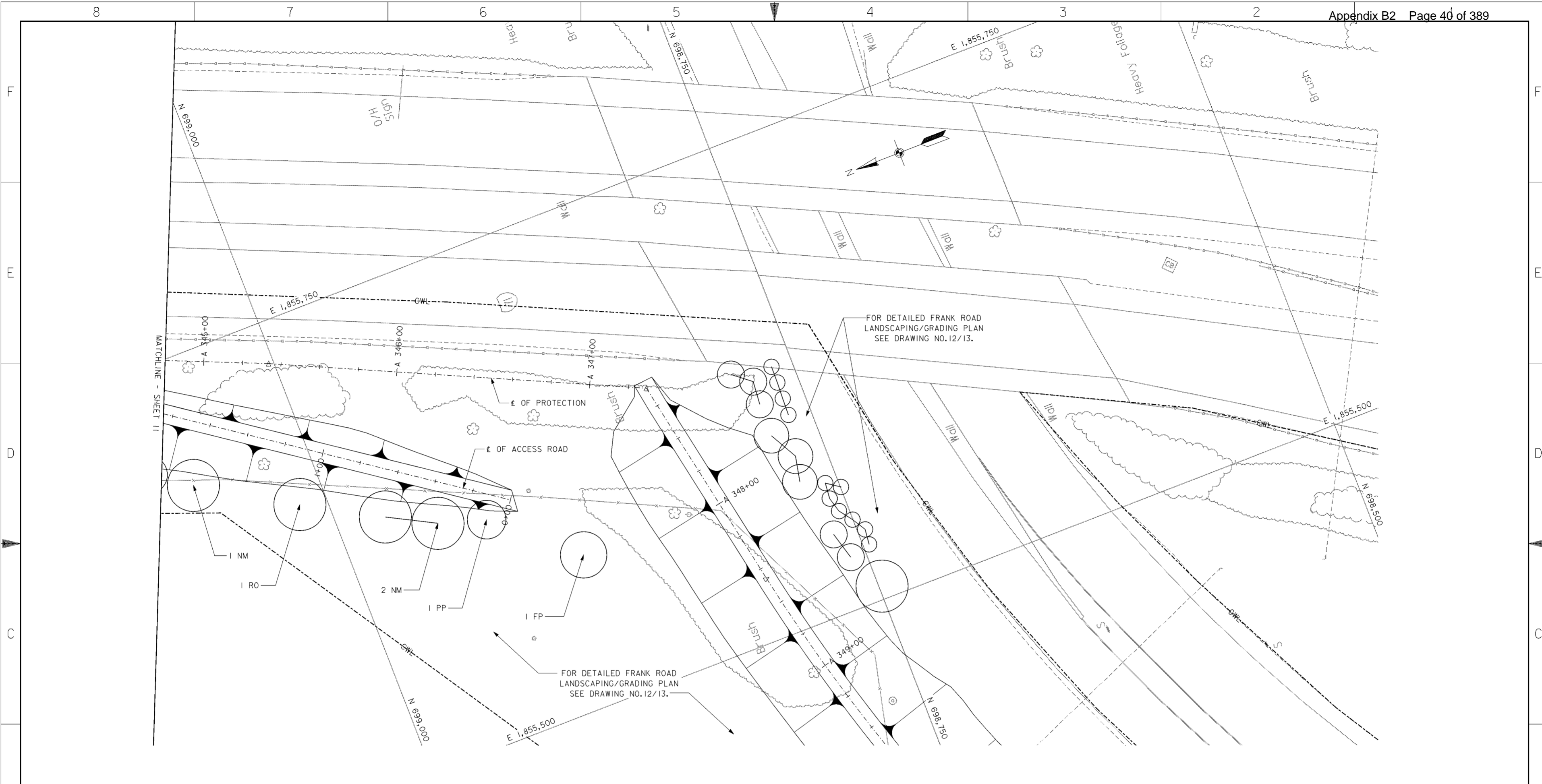
PLANT LIST				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	*5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
ACF	ABIES CONCOLOR	'CONCOLOR' WHITE FIR	8-10' HT.	B&B

- NOTES**
- FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
  - FOR NORTHERN DRAINAGE SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
  - FOR I-71 CROSS SECTIONS AND CENTERLINE OF DITCH ELEVATIONS SEE DRAWING NOS. 16/77 THRU 16/79.
  - FOR NEW CATCH BASIN (NCB) DATA AND PROFILES SEE DRAWING NO. 15.1/24.
  - DITCH WIDTH SHALL BE 4'-0" WIDE FOR 5' EACH SIDE OF CATCH BASIN.

Revisions			
Symbol	Descriptions	Date	Approved

REV. BY CONTRACT MODIFICATION LETTER MCO49 5/03 P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
<b>LANDSCAPING PLAN (11 OF 12)</b>		Scale: <b>AS SHOWN</b>	FILENAME: PIN TABLE: 00lsp11.dgn
Designed by: <b>A. ENGLISH</b>	Drawn by: <b>T. MULLINS</b>	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>12/11</b>
Checked by: <b>R. MORSE</b>	Reviewed by:	Drawing Code: <b>016-PWC-13</b>	Sheet <b>11</b> of <b>12</b>
Approved by:	Approved by:	Approved by:	Approved by:



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

PLANT LIST				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBIRIAN DOGWOOD	36" HT.	#5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B

**NOTES**  
1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.

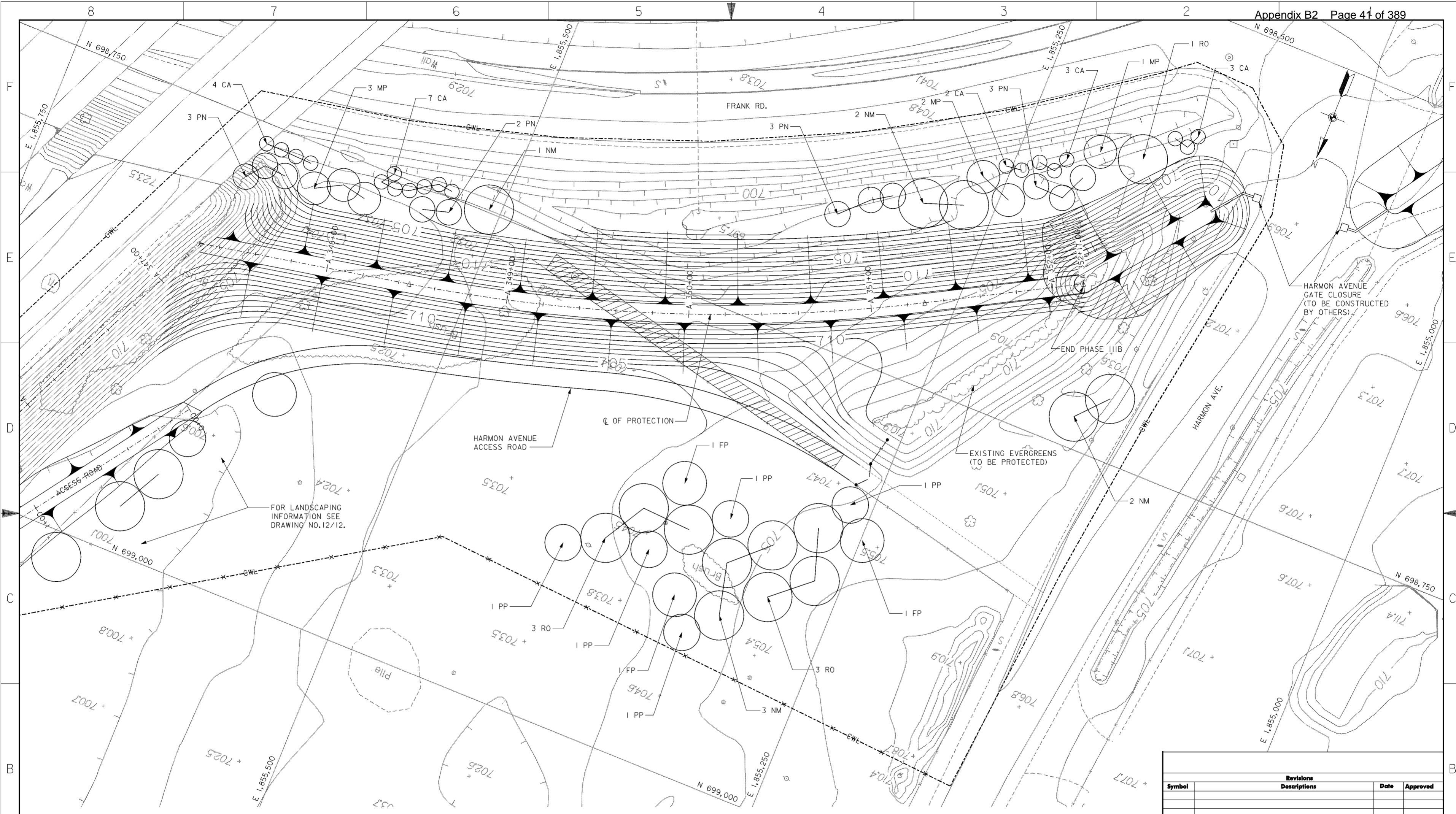
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>A. ENGLISH</b>	<b>LANDSCAPING PLAN (12 OF 12)</b>	Reviewed by: <b>AS SHOWN</b>	FILENAME: 00lsp12.dgn
Drawn by: <b>T. MULLINS</b>		Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>12/12</b>
Checked by: <b>R. MORSE</b>		Drawing Code: <b>016-PWC-13</b>	Sheet 12 of 12
Approved by:	Scale:	PEN TABLE:	Approved:

**WORK AS CONSTRUCTED**





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

**NOTES**

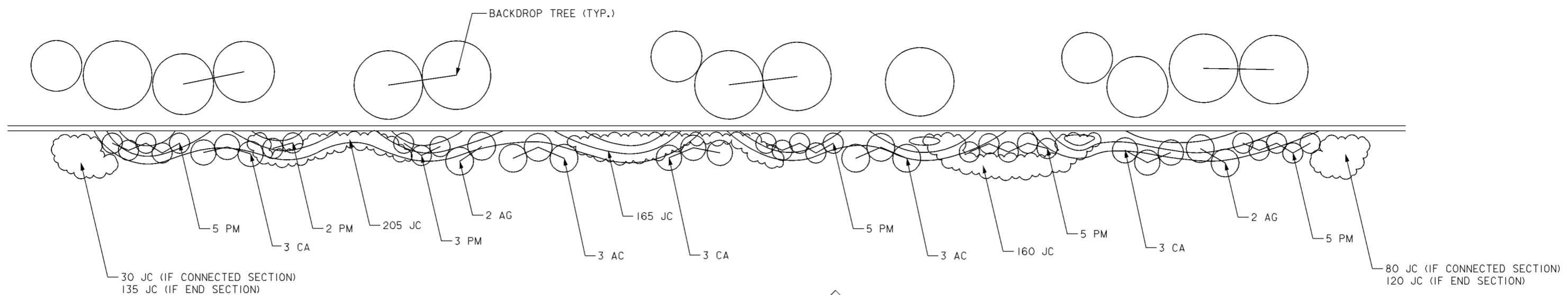
1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
2. FOR HARMON AVENUE ACCESS ROAD SEE DRAWING NO. 16/52.

PLANT LIST				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
PN	PINUS NIGRA	AUSTRIAN PINE	6-8' HT.	B&B
MP	MALLUS 'PRAIRIE FIRE'	'PRAIRIE FIRE' CRABAPPLE	1 1/2" CAL.	B&B
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	#5 CONT.
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10' HT.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>A. ENGLISH</b>	<p align="center"><b>FRANK ROAD LANDSCAPING PLAN</b></p> FILENAME: 00frpp01.dgn SHEET: 1 of 1
Drawn by: <b>T. MULLINS</b>	
Checked by: <b>R. MORSE</b>	
Reviewed by: AS SHOWN	
Approved by: DATE: OCTOBER 2000 DRAWING CODE: 016-PWC-13	

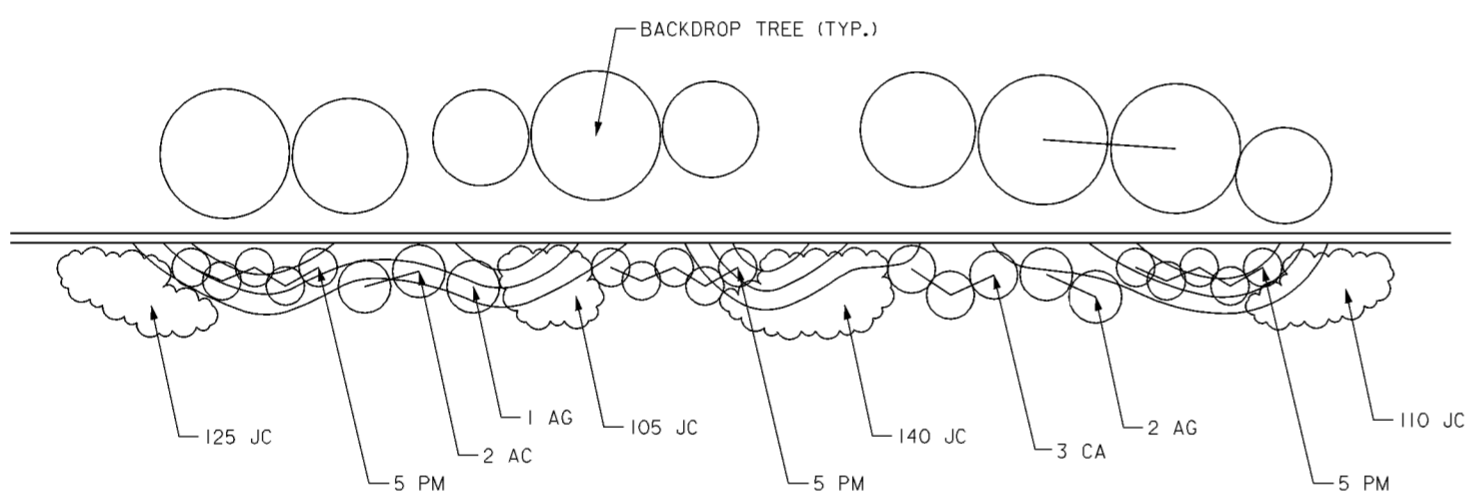


**500' LANDSCAPE PLAN** (TYPICAL)

SCALE: 1" = 20'

NOTE:  
MOUNDING SHOWN ON THIS DRAWING IS REPRESENTATIVE FOR FINISHED MOUNDING. MOUNDING SHALL NOT EXTEND INTO DRAINAGE DITCH. SEE DRAWING NOS. 12/1 THRU 12/9.

500' LANDSCAPE SECTION		
STATION	NORTH END CONDITION	SOUTH END CONDITION
273+90 TO 278+90	NOT CONNECTED	CONNECTED
278+90 TO 284+00	CONNECTED	NOT CONNECTED
289+00 TO 294+00	NOT CONNECTED	CONNECTED
296+50 TO 301+50	CONNECTED	CONNECTED
306+50 TO 311+50	CONNECTED	NOT CONNECTED
316+50 TO 321+50	NOT CONNECTED	CONNECTED
321+50 TO 326+50	CONNECTED	NOT CONNECTED



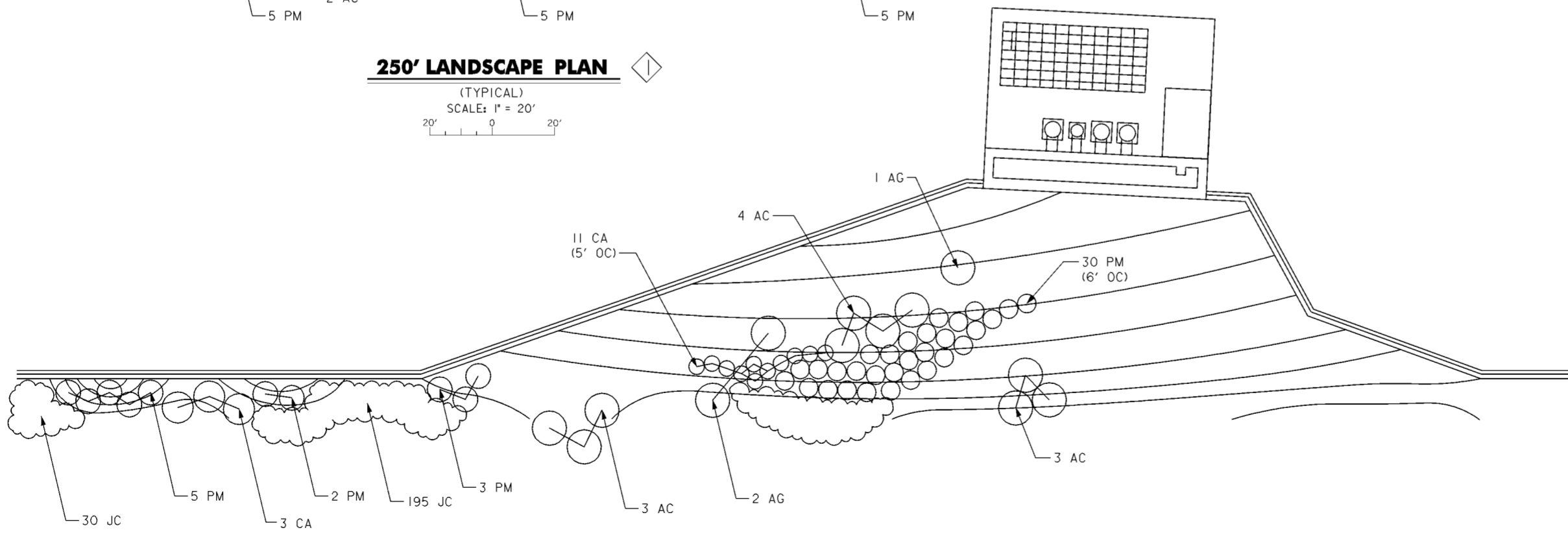
**250' LANDSCAPE PLAN** (TYPICAL)

SCALE: 1" = 20'

PLANT LIST				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS
AC	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	5- 6' HT.	B&B MULTI-TRUNK
CA	CORNUS ALBA 'SIBIRICA BLOODGOOD'	BLOODGOOD SIBERIAN DOGWOOD	36" HT.	#5 CONT.
PM	PINUS MUGO	MUGHO PINE	24-36" HT.	#5 CONT.
JC	JUNIPER CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPERS	15"	#3 CONT. (18" SPACING)
PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	8-10" HT.	B&B
NM	ACER PLATANOIDES	NORWAY MAPLE	2 1/2" CAL.	B&B
RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B
FP	FRAXINUS PENNSYLVANIA 'MARSHALLS SEEDLESS'	MARSHALLS SEEDLESS GREEN ASH	2 1/2" CAL.	B&B
AG	ACER GINNALA	AMUR MAPLE	5' HT.	B&B CLUMP

**NOTES**

- FOR LANDSCAPING PLANS SEE DRAWING NOS. 12/1 THRU 12/12.
- FOR LOCATION AND TYPES OF BACKDROP TREES SEE LANDSCAPING PLANS ON DRAWING NOS. 12/1 THRU 12/10.
- FOR LANDSCAPE MOUNDING SEE DRAWING NOS. 12/2 THRU 12/9.



**LANDSCAPE PLAN AT PUMP STATION**

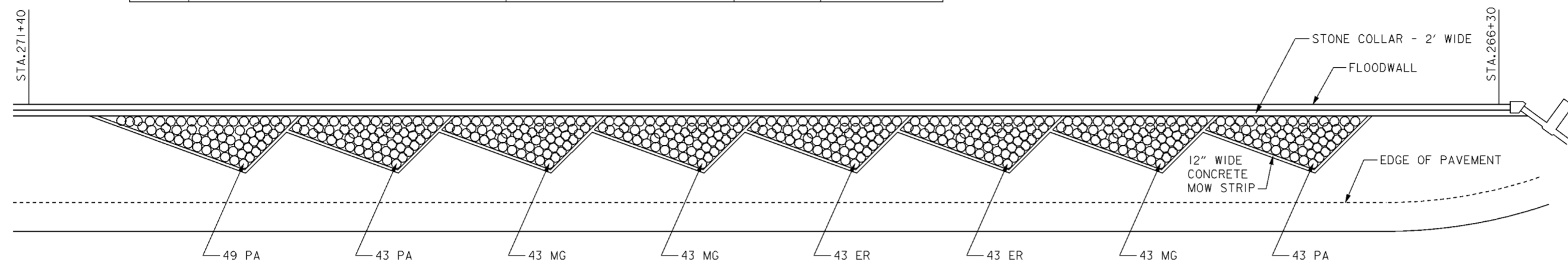
SCALE: 1" = 20'

Revisions			
Symbol	Descriptions	Date	Approved

REV. BY CONTRACT MODIFICATION LETTER MCO49 5/03 P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>K. KLARE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>LANDSCAPING</b> <b>DETAILS (1 OF 2)</b>
Drawn by: <b>T. MULLINS</b>	
Checked by: <b>P. CONROY</b>	
Reviewed by: <b>AS SHOWN</b>	
Approved by: <b>OCTOBER 2000</b>	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>12/14</b> FILENAME: 00sdt01.dgn PEN TABLE: Sheet <b>1</b> of <b>2</b>

PLANT LIST				
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
ORNAMENTAL GRASSES				
ER	ERIANTHUS RAVENNAE	PLUME GRASS	#2	CONT.
MG	MISCANTHUS 'GRACILLIMUS'	MAIDEN GRASS	#5	CONT.
PA	PENNISETUM ALOPECUROIDES	FOUNTAIN GRASS	#2	CONT.

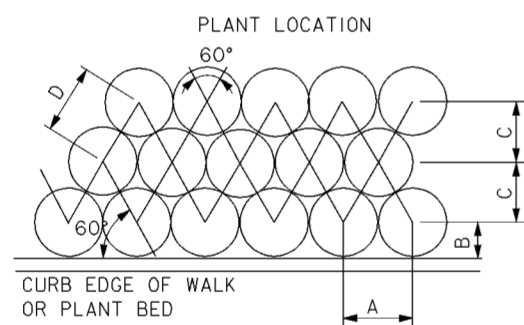


**GREENLAWN AVENUE ON-RAMP LANDSCAPE TREATMENT**

STA. 266+30 TO 271+40  
SCALE: 1" = 20'

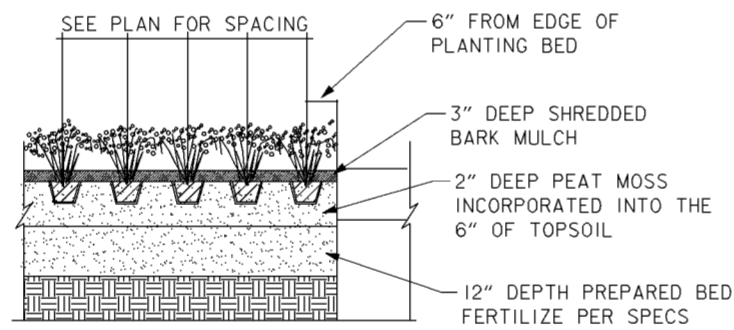
LANDSCAPE PLANTING						
COMMON NAME	BACK DROP TREES	FRANK ROAD LANDSCAPING	250' & 500' PLANTING	GREENLAWN ON-RAMP PLANTING	GREENLAWN STOP LOG BUILDING	TOTAL
GREEN ASH	45	3	-	-	-	48
NORWAY MAPLE	68	8	-	-	1	77
AUSTRIAN PINE	2	11	-	-	-	13
COLORADO SPRUCE	50	5	-	-	-	55
RED OAK	48	7	-	-	-	55
SIBERIAN DOGWOOD	-	19	77	-	4	100
CRAB APPLE	-	6	-	-	-	6
SERVICE BERRY	-	-	52	-	2	54
MUGHO PINE	-	-	205	-	-	205
AMUR MAPLE	-	-	32	-	-	32
PLUME GRASS	-	-	-	86	-	86
MAIDEN GRASS	-	-	-	129	-	129
FOUNTAIN GRASS	-	-	-	135	-	135
'SEA GREEN' JUNIPERS	-	-	10,015 (4,928)	-	- (72)	10,015 (5,000)
MISSION ARBOR VITAE	-	-	-	-	6	6
'CONCOLOR' WHITE FIR	13	-	-	-	-	13

SPACING A B C D  
48" 48" 24" 40" 48"  
A=SPACING  
B=SPACING/2  
C=SPACING/1.2  
D=SPACING



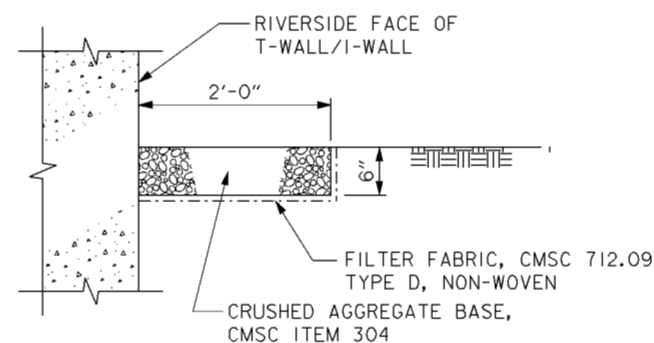
**ORNAMENTAL GRASS SPACING**

SCALE: NONE



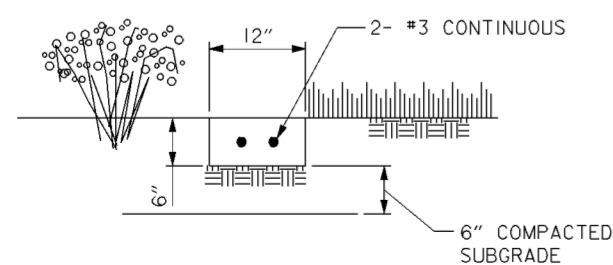
**CONTAINER PLANTING**

SCALE: NONE



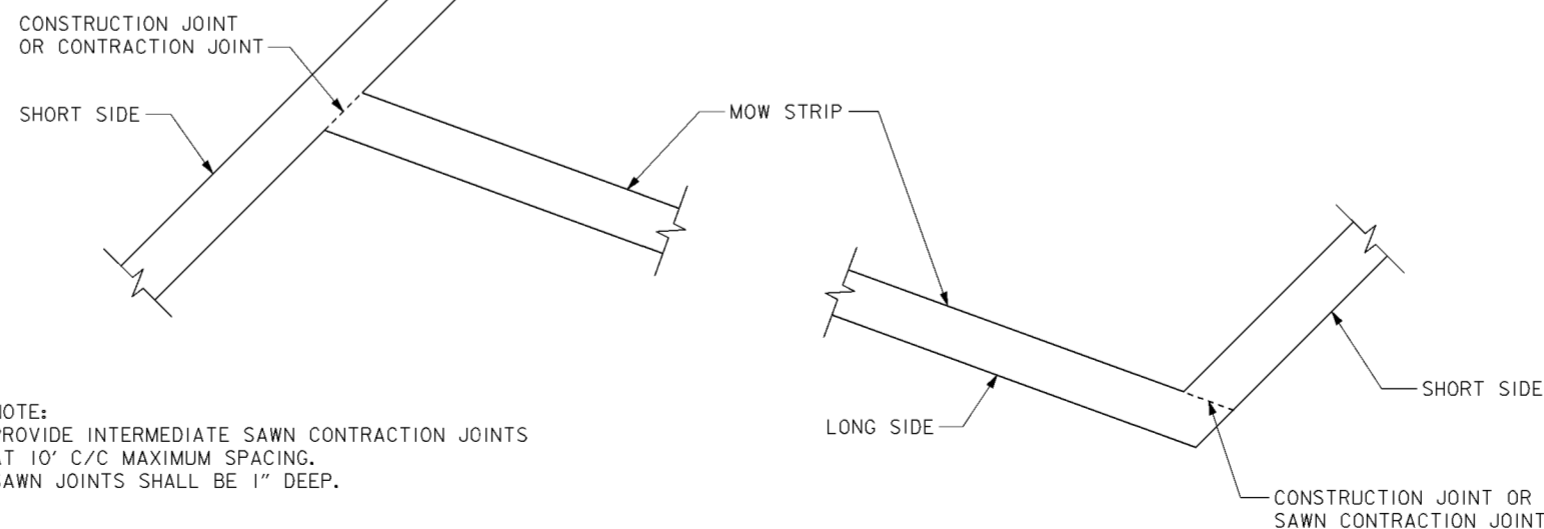
**STONE COLLAR TYPICAL SECTION**

STA. 266+22.5 TO STA. 336+40  
SCALE: 1" = 1'



**CONCRETE MOW STRIP TYPICAL SECTION**

SCALE: 1" = 1'



**CONCRETE MOW STRIP JOINTING**

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

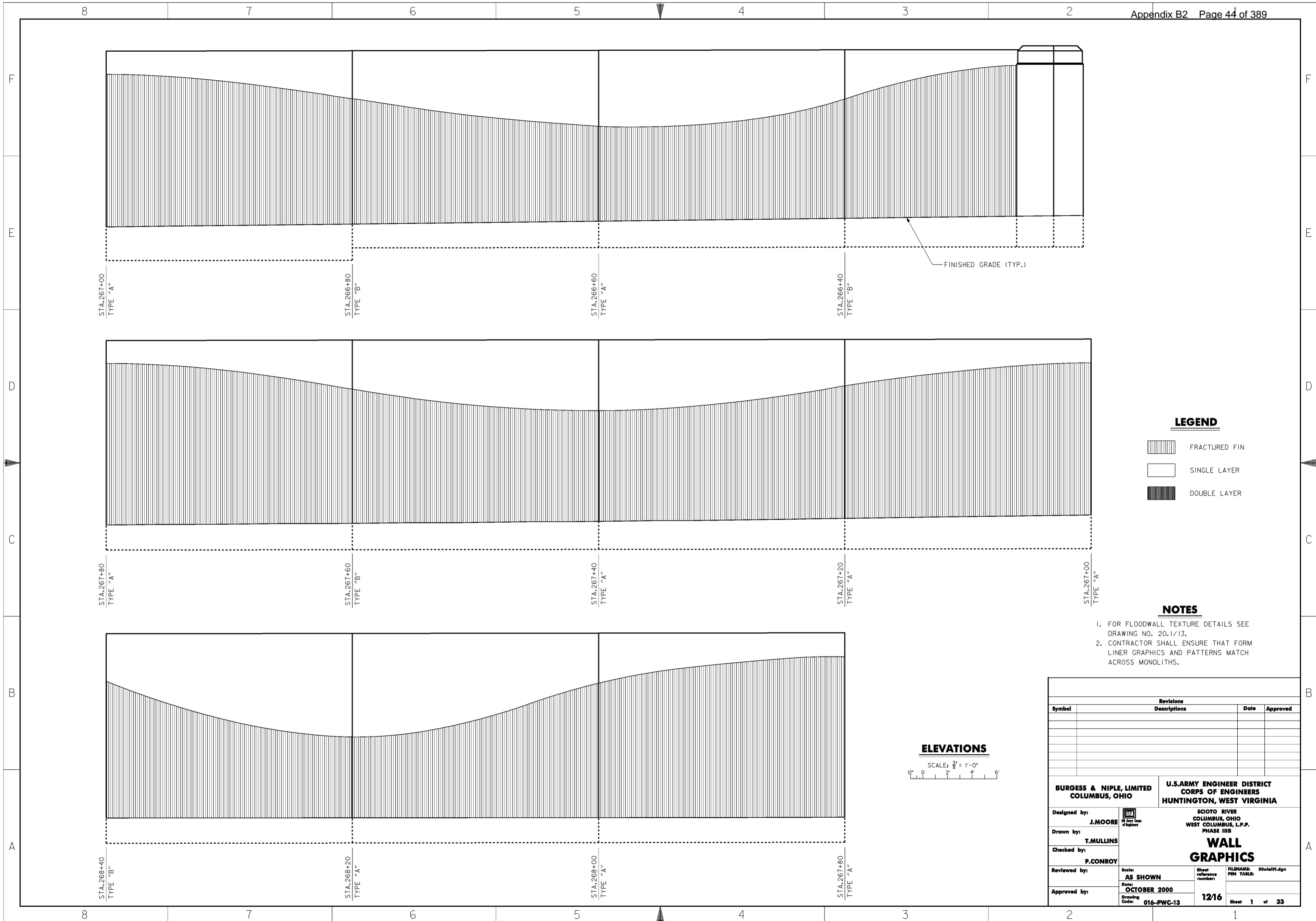
- NOTE:  
1. PROVIDE INTERMEDIATE SAWN CONTRACTION JOINTS AT 10' C/C MAXIMUM SPACING.  
2. SAWN JOINTS SHALL BE 1" DEEP.

**NOTES**




1. FOR LANDSCAPING PLANS SEE DRAWING NOS. 12/1 THRU 12/12.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. BY CONTRACT MODIFICATION LETTER MC049	5/03	P.O.C.
◊	REV. IN ACCORDANCE WITH AMENDMENT NO. 0006	1/19/01	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>A. ENGLISH</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T. MULLINS</b>	<b>LANDSCAPING</b> <b>DETAILS (2 OF 2)</b>
Checked by: <b>R. MORSE</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>12/15</b>
	FILENAME: PIN TABLE: <b>016d02.dgn</b>
	Sheet <b>2</b> of <b>2</b>



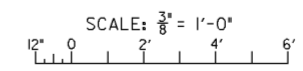
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

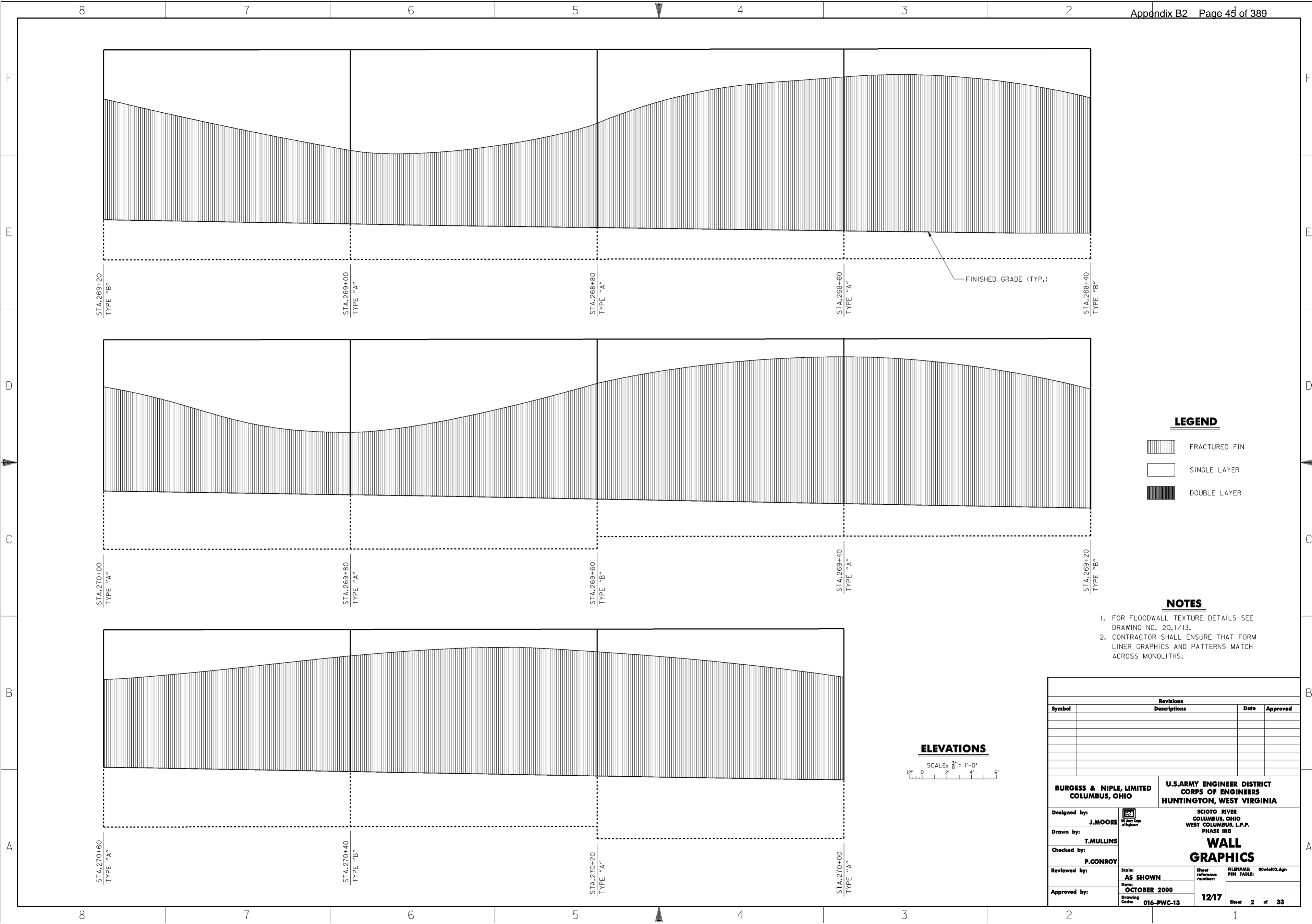


Revisions			
Symbol	Descriptions	Date	Approved




  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. MOORE Registered Professional Engineer State of Ohio, No. 12345	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by:	J. MOORE	<b>WALL GRAPHICS</b>
Drawn by:	T. MULLINS	
Checked by:	P. CONROY	
Reviewed by:	AS SHOWN	
Approved by:	OCTOBER 2000	
Scale:	AS SHOWN	Sheet reference number:
Date:	OCTOBER 2000	FILENAME: 00wiel01.dgn
Drawing Code:	016-PWC-13	PIN TABLE:
Scale:	AS SHOWN	12/16
Date:	OCTOBER 2000	Sheet 1 of 33

**WORK AS CONSTRUCTED**



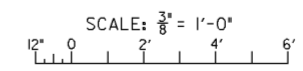
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER


**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

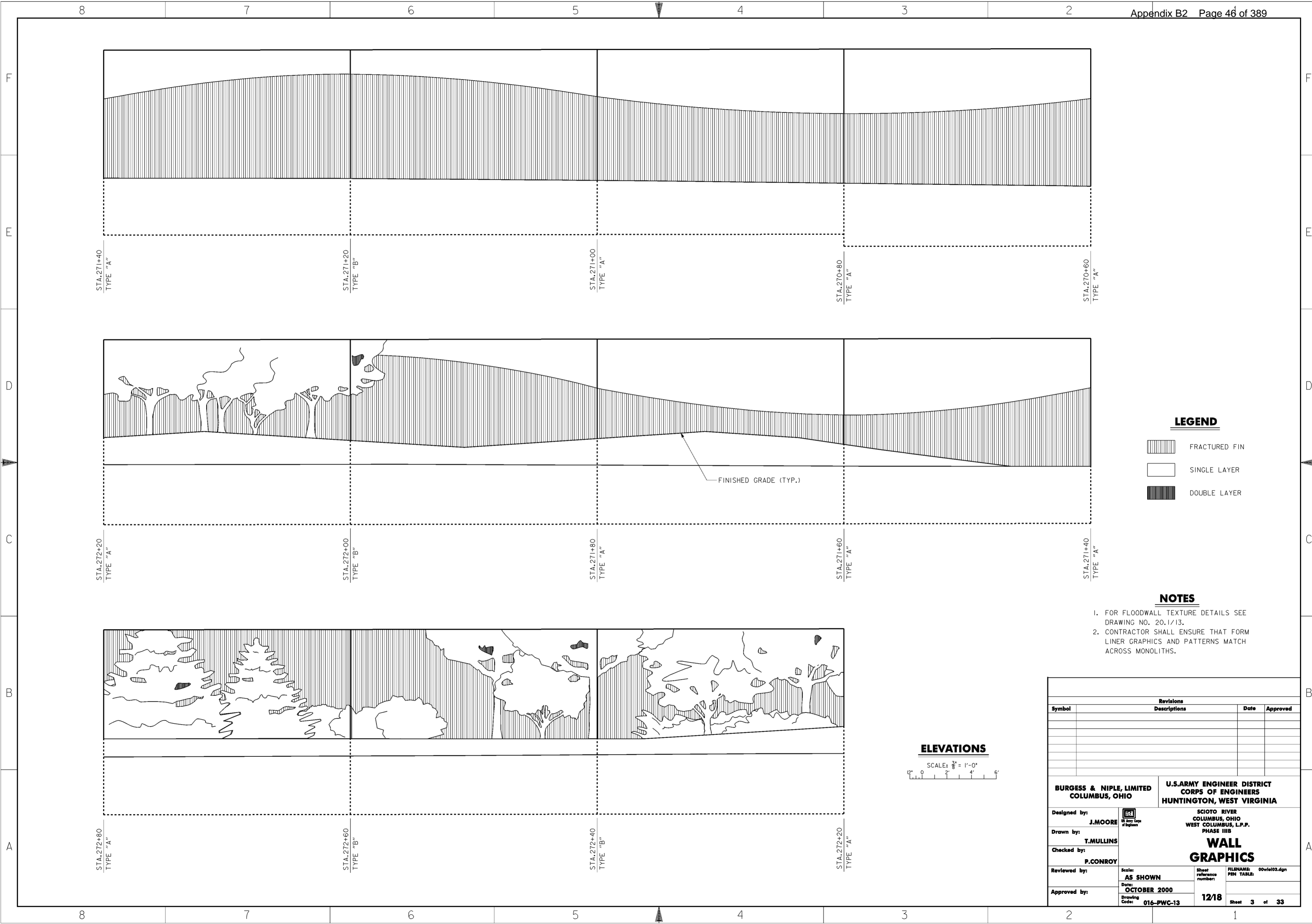
**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>		<b>WALL GRAPHICS</b>	
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>		
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>2</b> of <b>33</b>
Approved by:			

**WORK AS CONSTRUCTED**



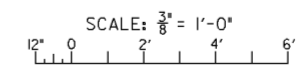
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER


**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

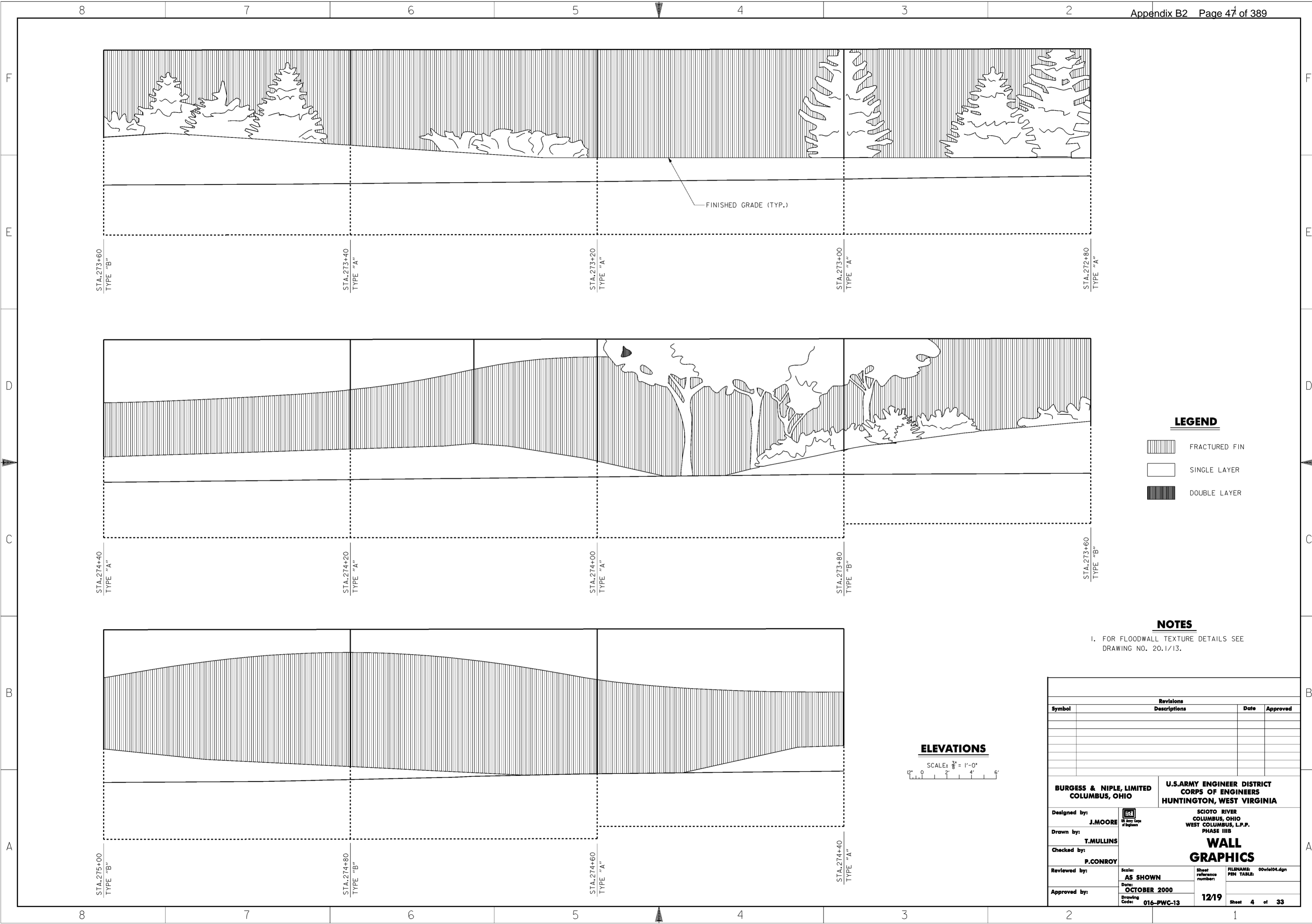
**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>		<b>WALL GRAPHICS</b>	
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>		
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>3</b> of <b>33</b>
Approved by:			

**WORK AS CONSTRUCTED**



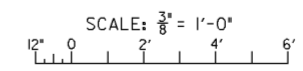
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.

**ELEVATIONS**

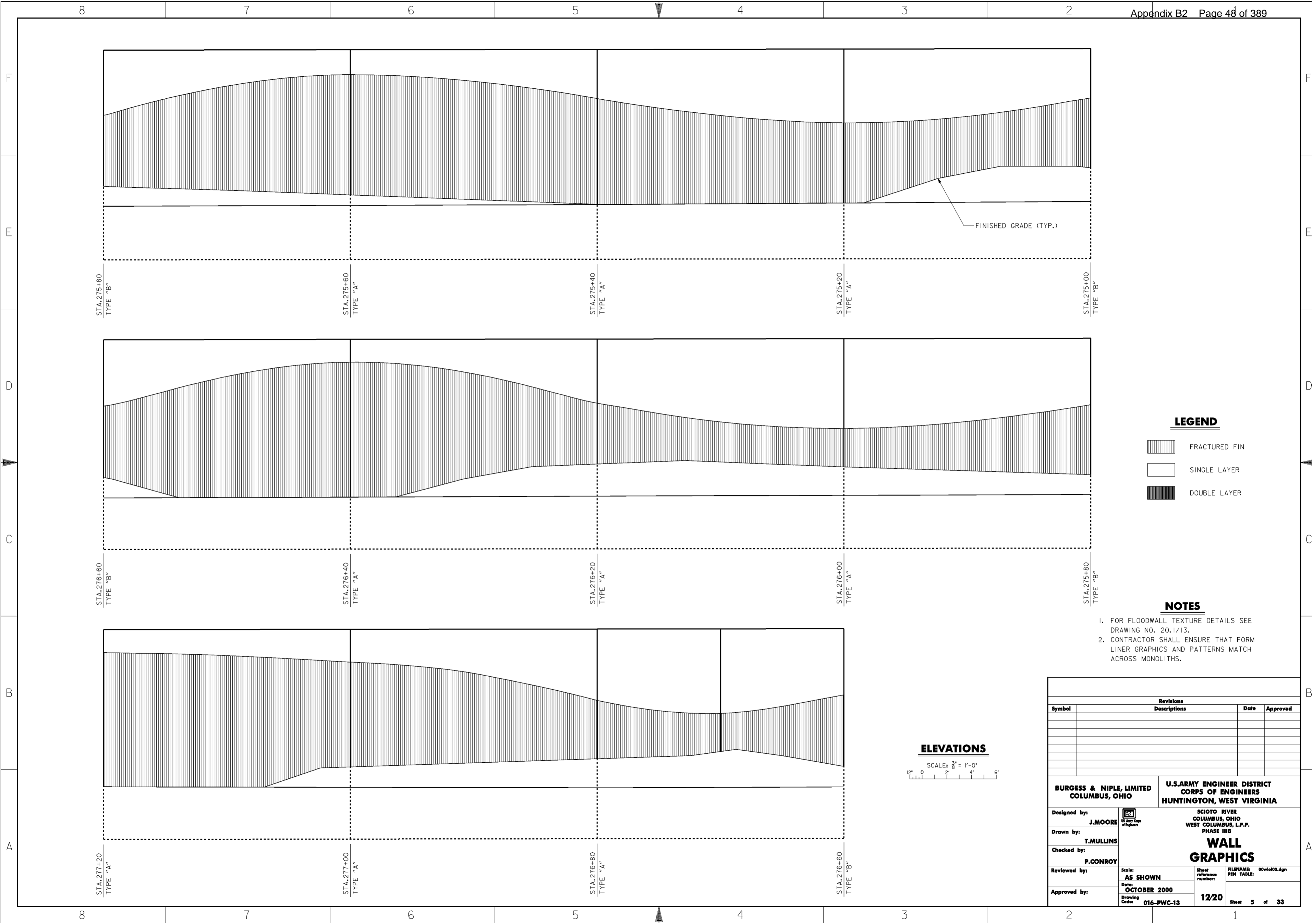


Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. MOORE</b>	<b>WALL GRAPHICS</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>12/19</b>	FILENAME: PIN TABLE: 00vie104.dgn
Drawing Code: <b>016-PWC-13</b>	Date: <b>OCTOBER 2000</b>	Sheet <b>4</b> of <b>33</b>	

**WORK AS CONSTRUCTED**



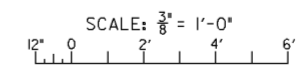
**LEGEND**

- FRACTURED FIN
- SINGLE LAYER
- DOUBLE LAYER

**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**



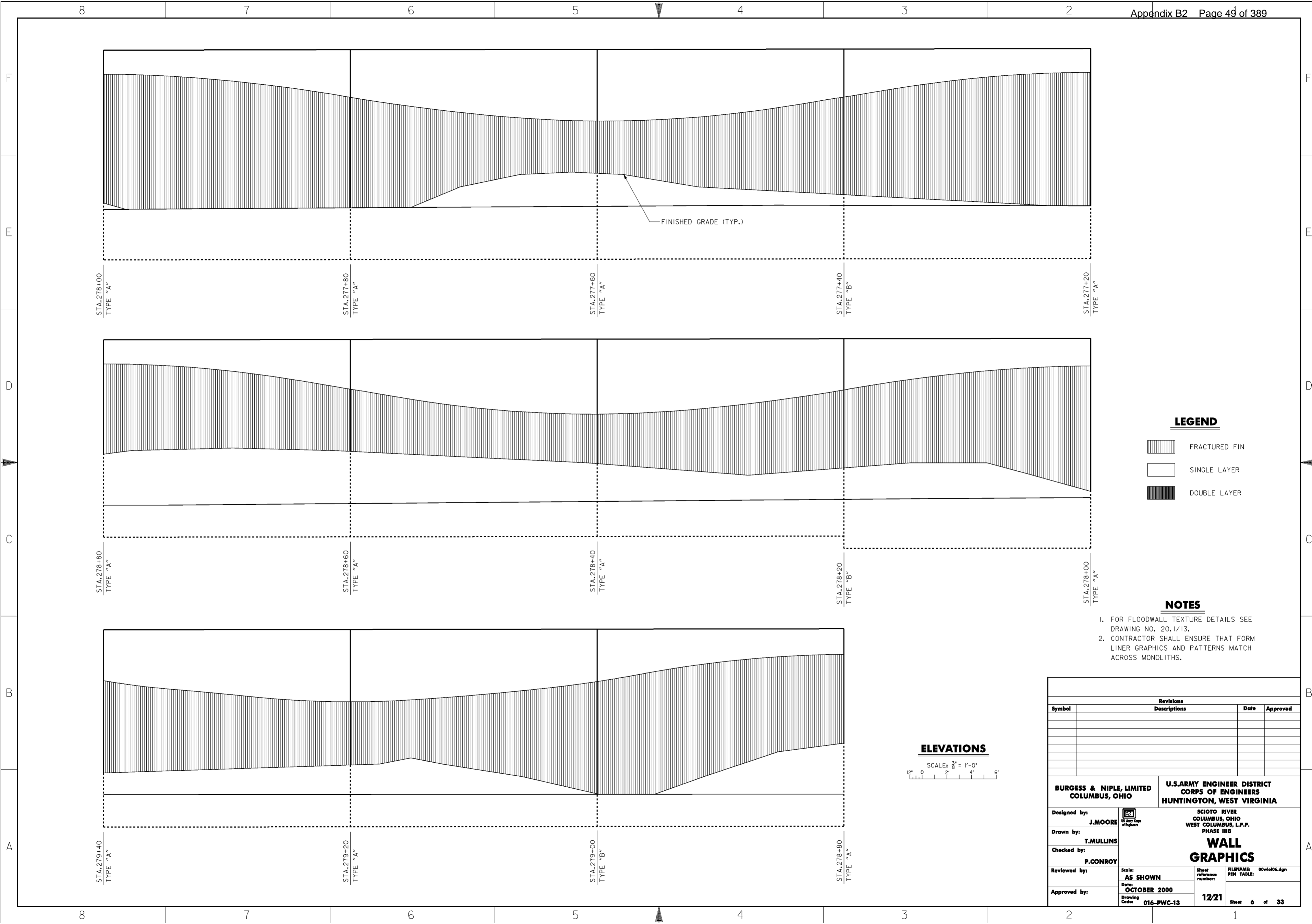
Revisions			
Symbol	Descriptions	Date	Approved




<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO  Designed by: <b>J. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by: <b>AS SHOWN</b> Approved by: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA  SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B  <b>WALL GRAPHICS</b>  Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b> Sheet reference number: <b>12/20</b> FILENAME: 00wiel03.dgn PEN TABLE: Sheet <b>5</b> of <b>33</b>
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**WORK AS CONSTRUCTED**





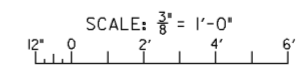
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER


**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

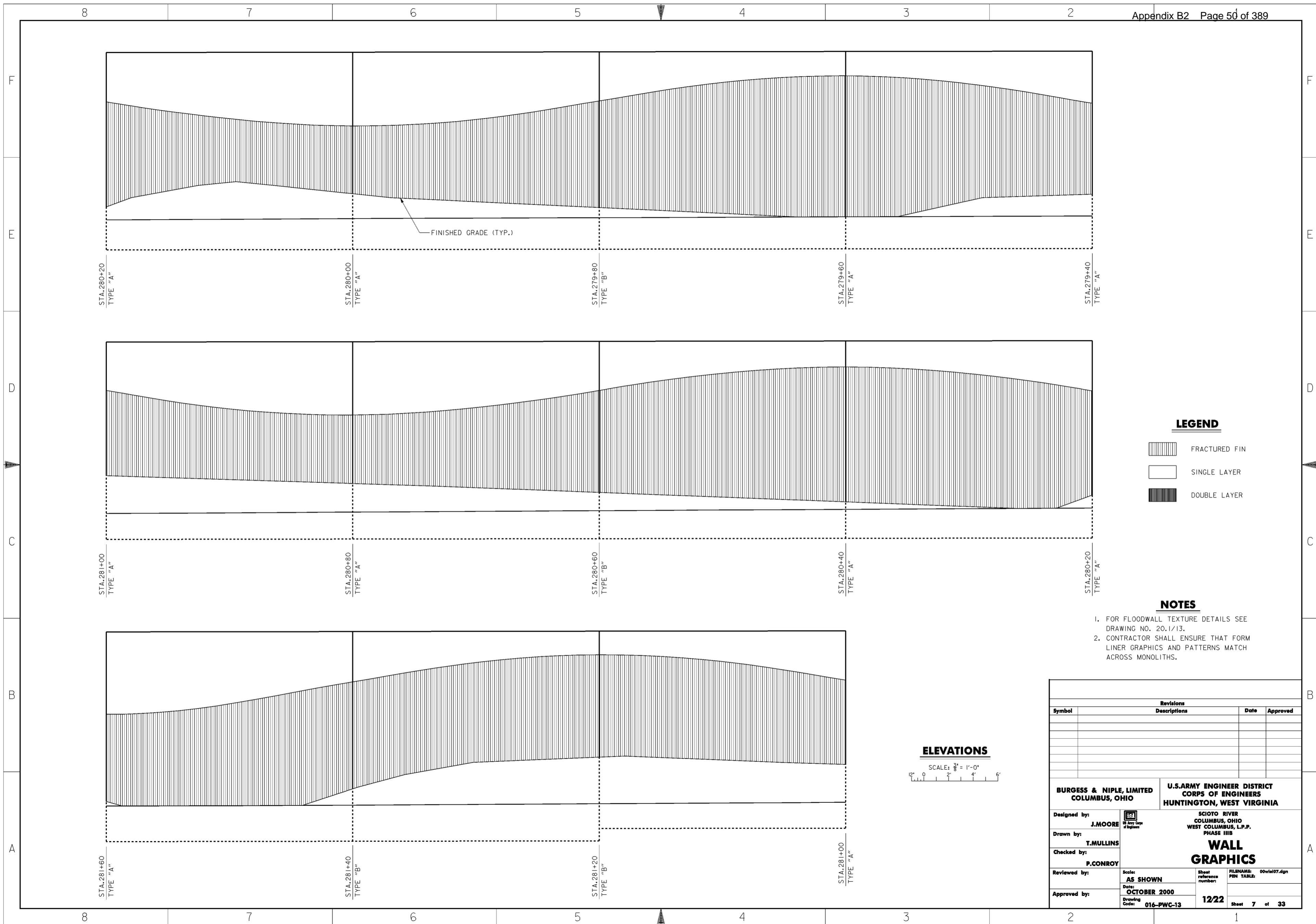
**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB	
Drawn by: <b>T. MULLINS</b>		<b>WALL GRAPHICS</b>	
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>		
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>6</b> of <b>33</b>
Approved by:			

**WORK AS CONSTRUCTED**



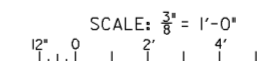
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

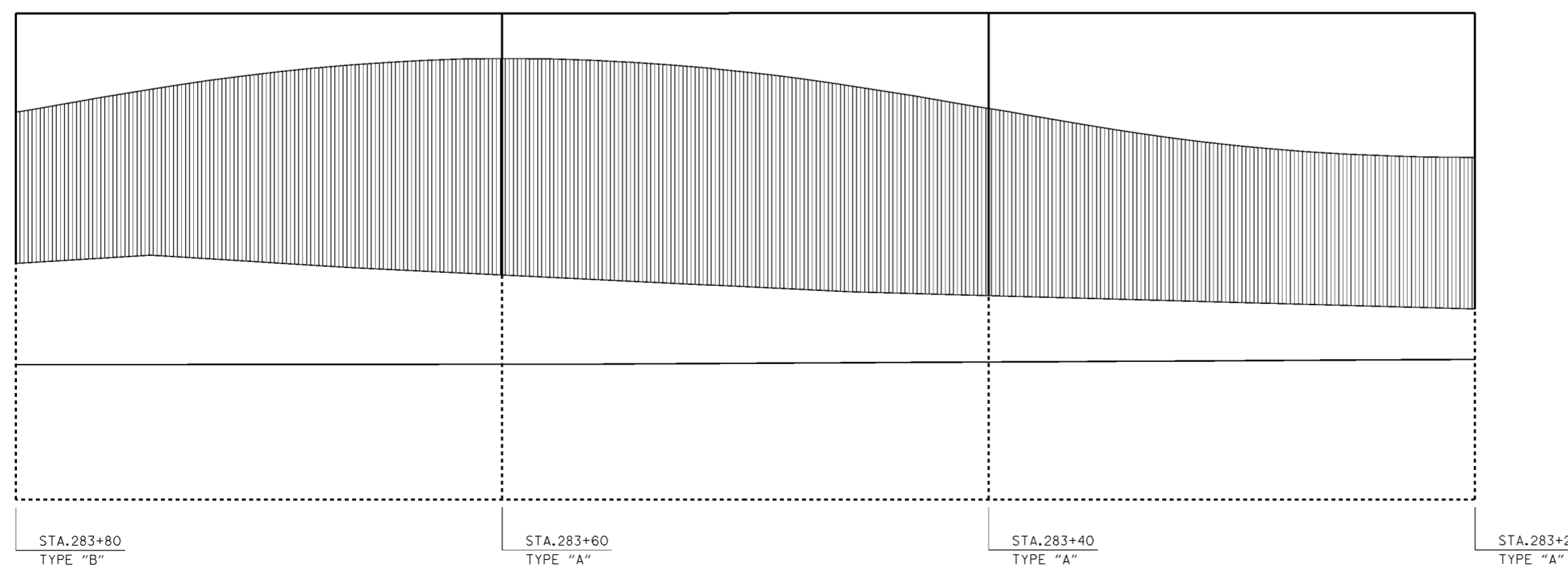
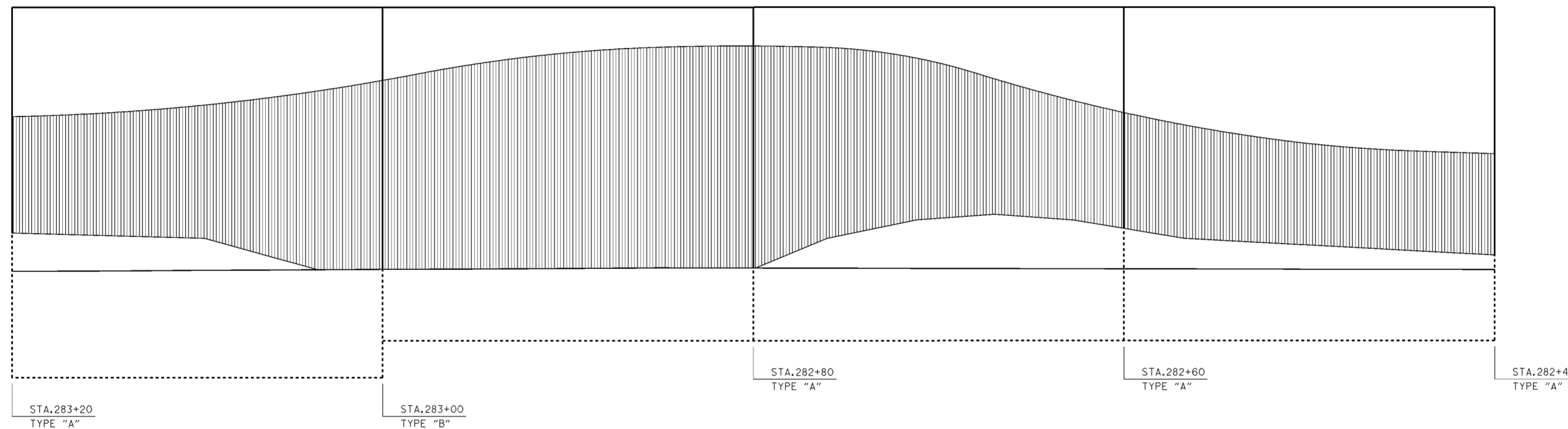
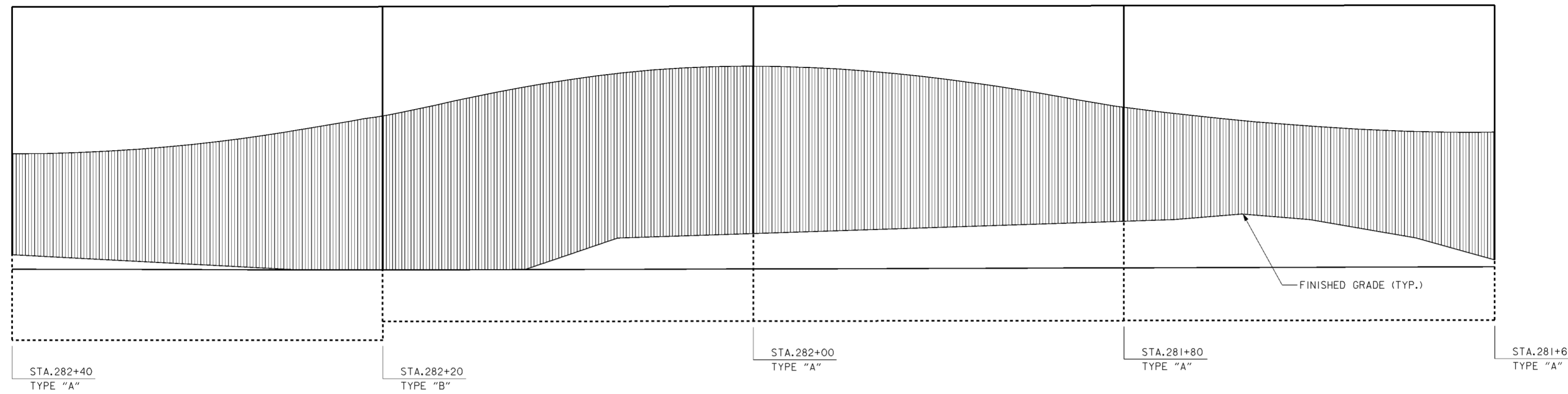


Revisions			
Symbol	Descriptions	Date	Approved




  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. MOORE Registered Professional Engineer State of Ohio	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by:	J. MOORE	<b>WALL GRAPHICS</b>
Drawn by:	T. MULLINS	
Checked by:	P. CONROY	
Reviewed by:	AS SHOWN	
Approved by:	Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	
Scale: <b>AS SHOWN</b>		Sheet reference number: <b>12/22</b> FILENAME: 00wiel07.dgn PEN TABLE: Sheet <b>7</b> of <b>33</b>

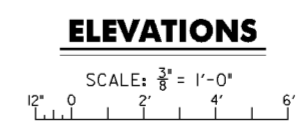
**WORK AS CONSTRUCTED**




**LEGEND**

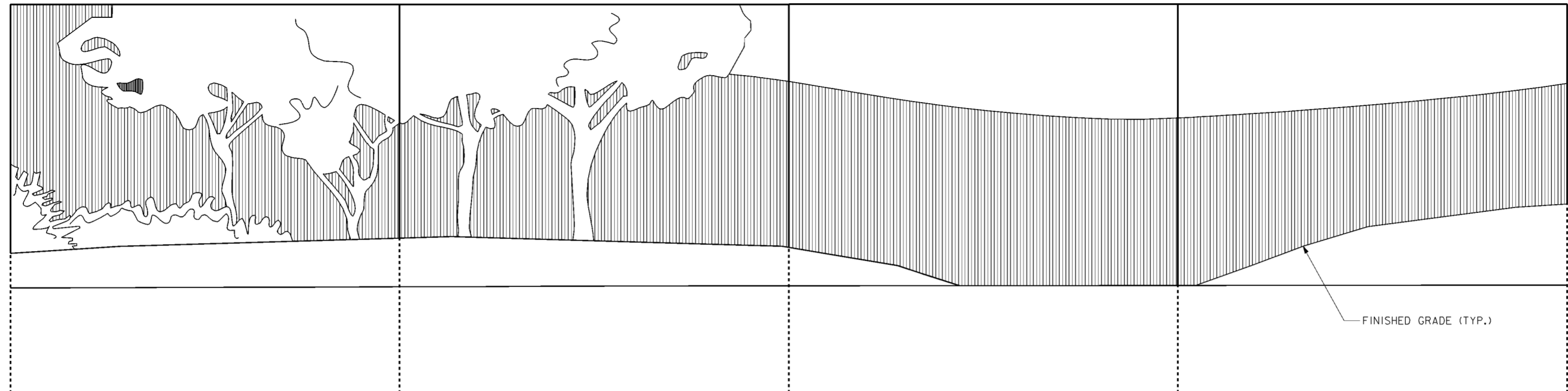
	FRACTURED FIN
	SINGLE LAYER
	DOUBLE LAYER

- NOTES**
1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
  2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

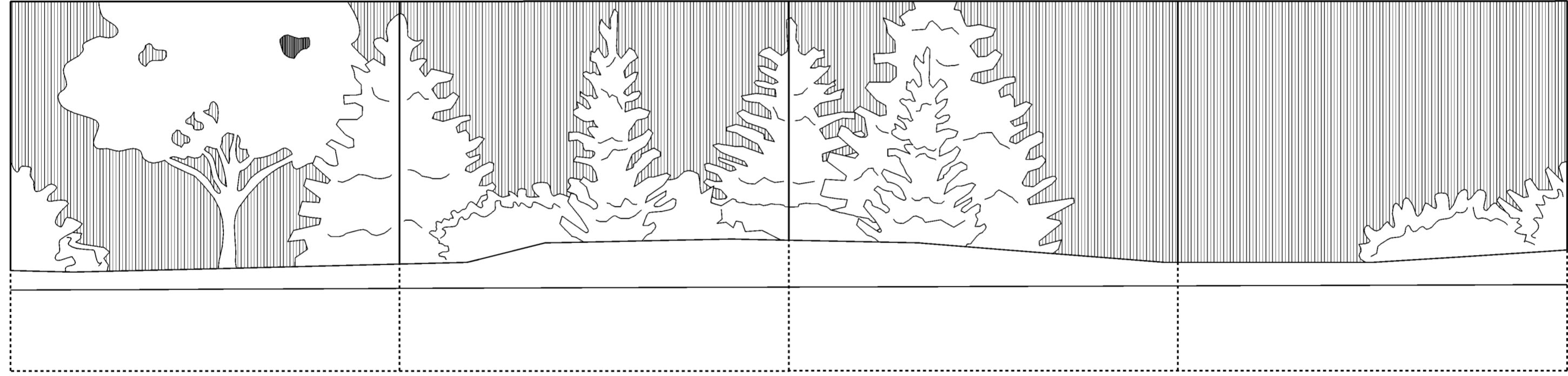


Revisions			
Symbol	Descriptions	Date	Approved

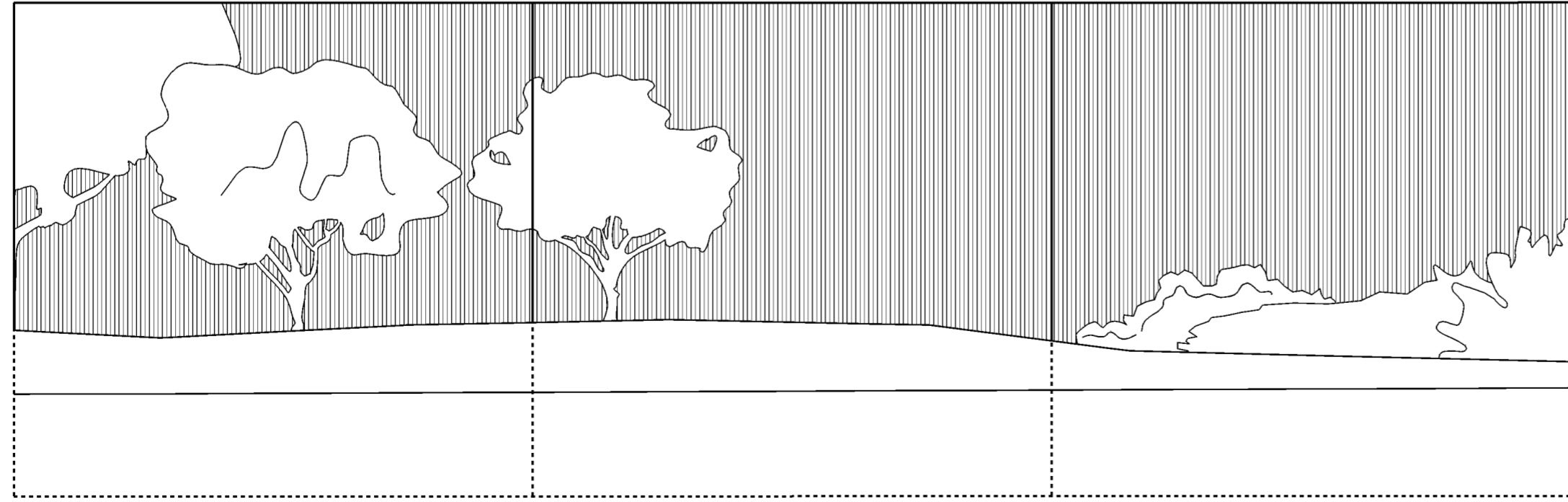
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>J. MOORE</b>	<p align="center"><b>WALL GRAPHICS</b></p> Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Drawn by: <b>T. MULLINS</b>	
Checked by: <b>P. CONROY</b>	
Reviewed by: (blank)	
Approved by: (blank)	FILENAME: 00vie108.dgn PIN TABLE: Sheet <b>8</b> of <b>33</b>



STA.284+60 TYPE "B"      STA.284+40 TYPE "A"      STA.284+20 TYPE "A"      STA.284+00 TYPE "A"      STA.283+80 TYPE "B"



STA.285+40 TYPE "B"      STA.285+20 TYPE "A"      STA.285+00 TYPE "A"      STA.284+80 TYPE "A"      STA.284+60 TYPE "B"

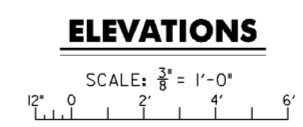


STA.286+00 TYPE "A"      STA.285+80 TYPE "A"      STA.285+60 TYPE "A"      STA.285+40 TYPE "B"

**LEGEND**

- FRACTURED FIN
- SINGLE LAYER
- DOUBLE LAYER

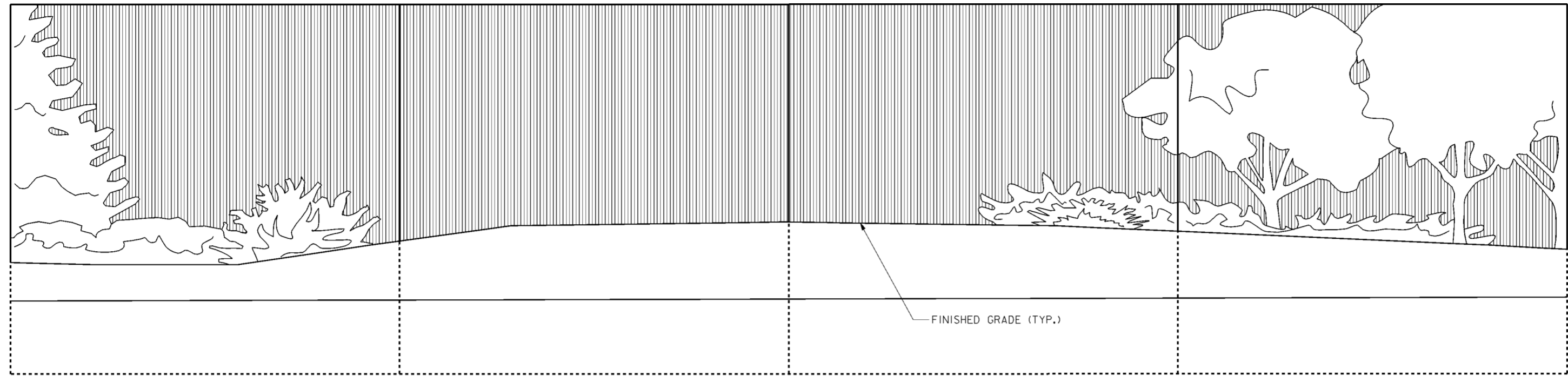
- NOTES**
1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
  2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.



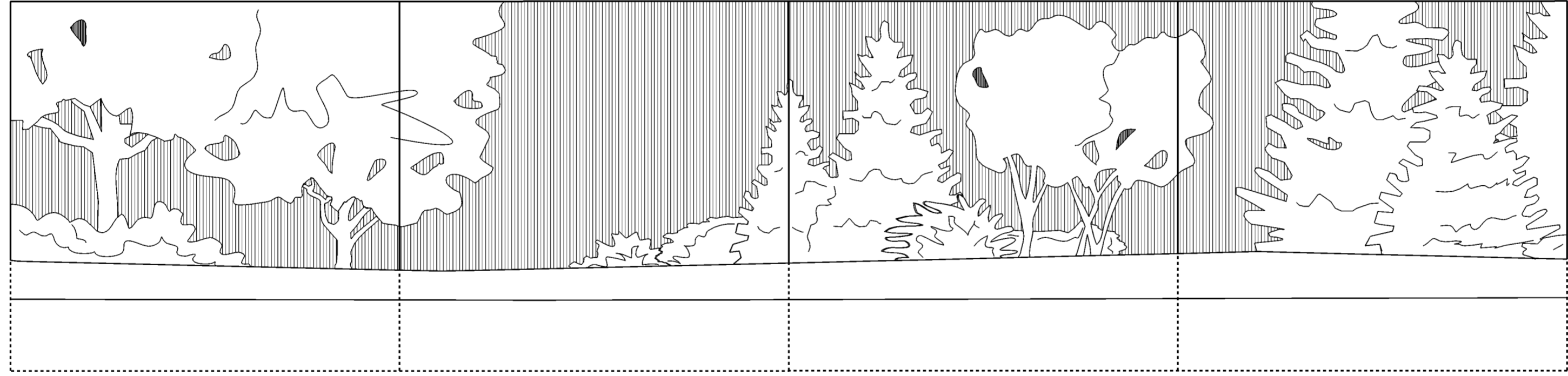
Revisions			
Symbol	Descriptions	Date	Approved

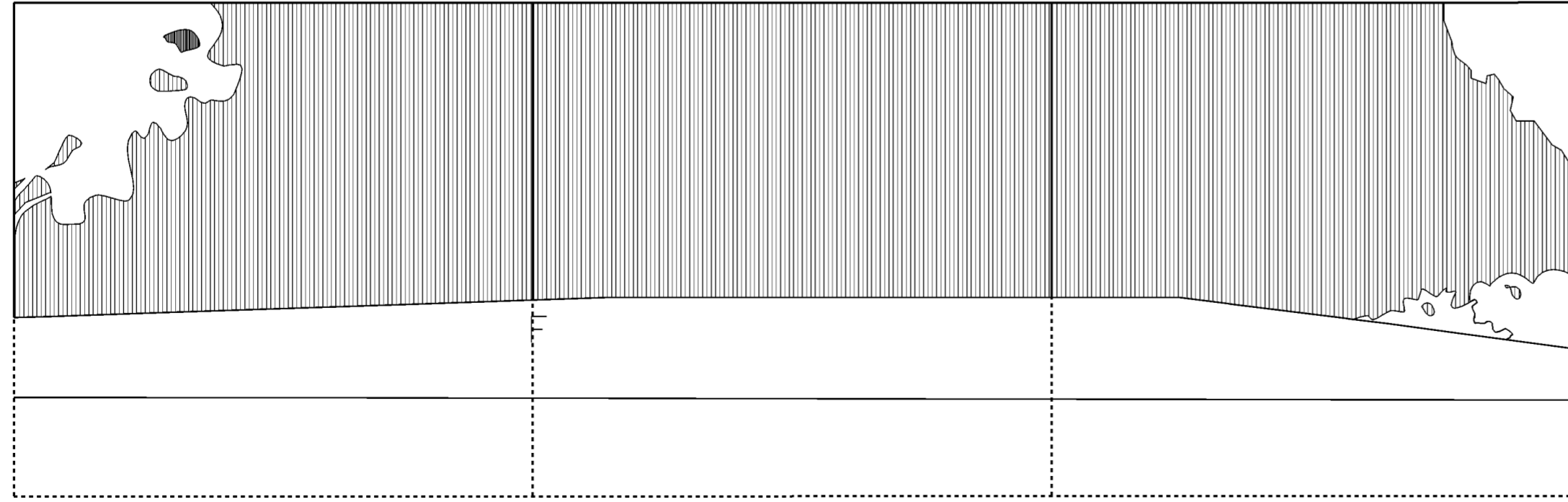
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. MOORE</b>	<b>WALL GRAPHICS</b>	FILENAME: 00wiel09.dgn	
Drawn by: <b>T. MULLINS</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>12/24</b>
Checked by: <b>P. CONROY</b>		Date: <b>OCTOBER 2000</b>	PIN TABLE:
Reviewed by: (blank)		Drawing Code: <b>016-PWC-13</b>	Sheet <b>9</b> of <b>33</b>
Approved by: (blank)	(blank)		



STA.286+80 TYPE "A"      STA.286+60 TYPE "A"      STA.286+40 TYPE "A"      STA.286+20 TYPE "B"      STA.286+00 TYPE "A"






STA.287+60 TYPE "A"      STA.287+40 TYPE "A"      STA.287+20 TYPE "A"      STA.287+00 TYPE "B"      STA.286+80 TYPE "A"



STA.288+20 TYPE "A"      STA.288+00 TYPE "A"      STA.287+80 TYPE "B"      STA.287+60 TYPE "A"

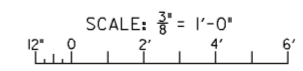
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-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER


**NOTES**

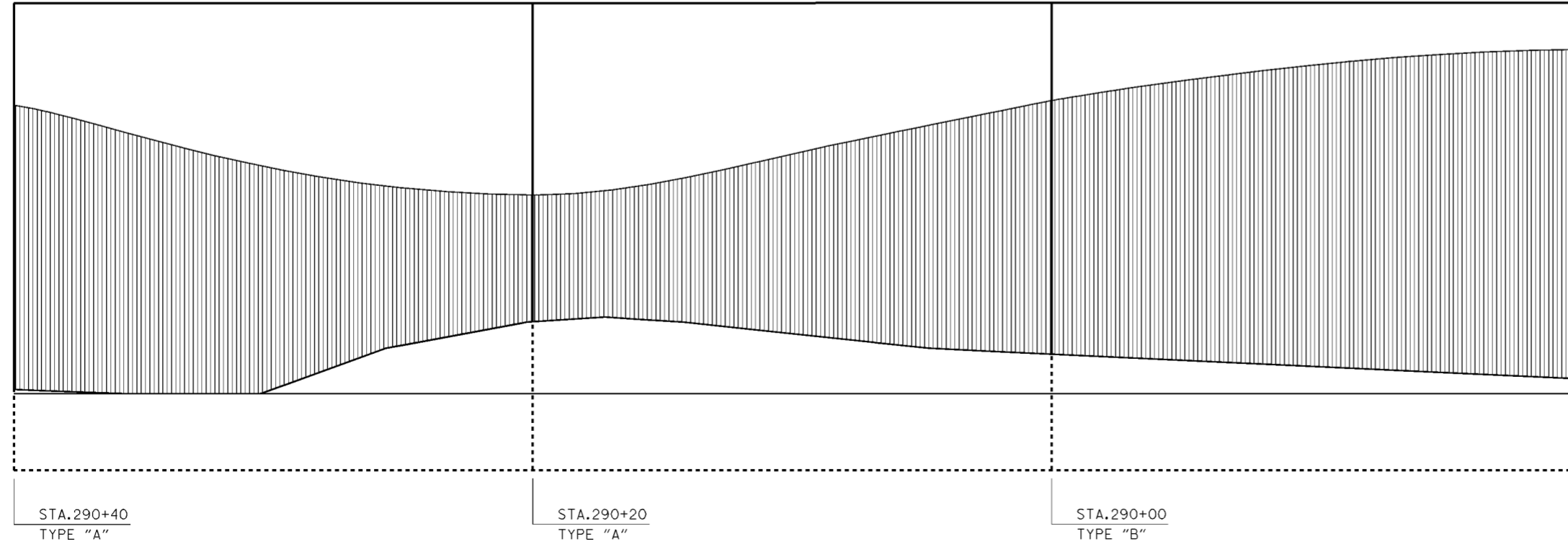
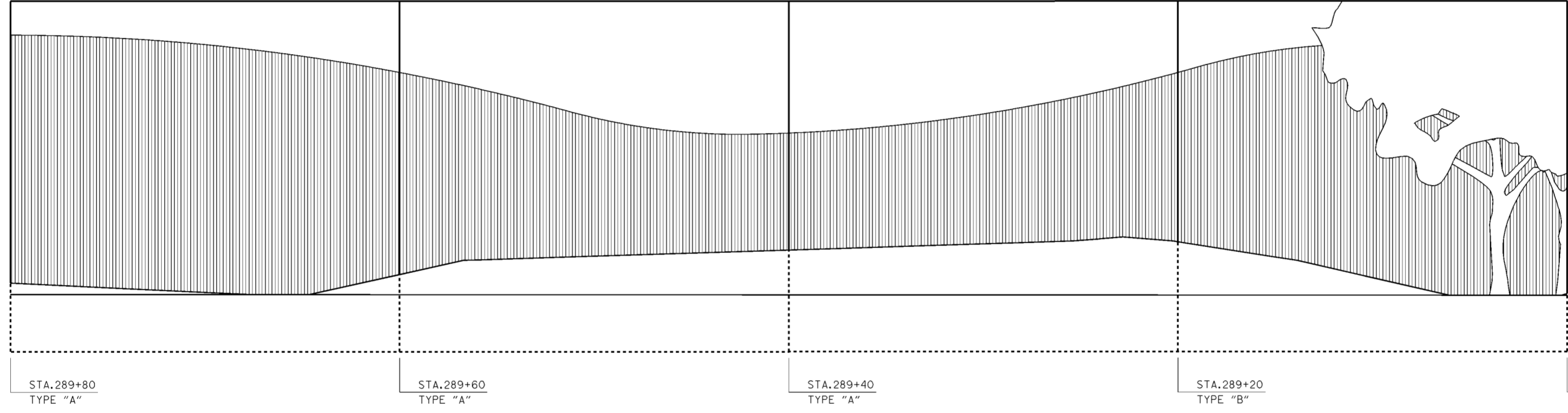
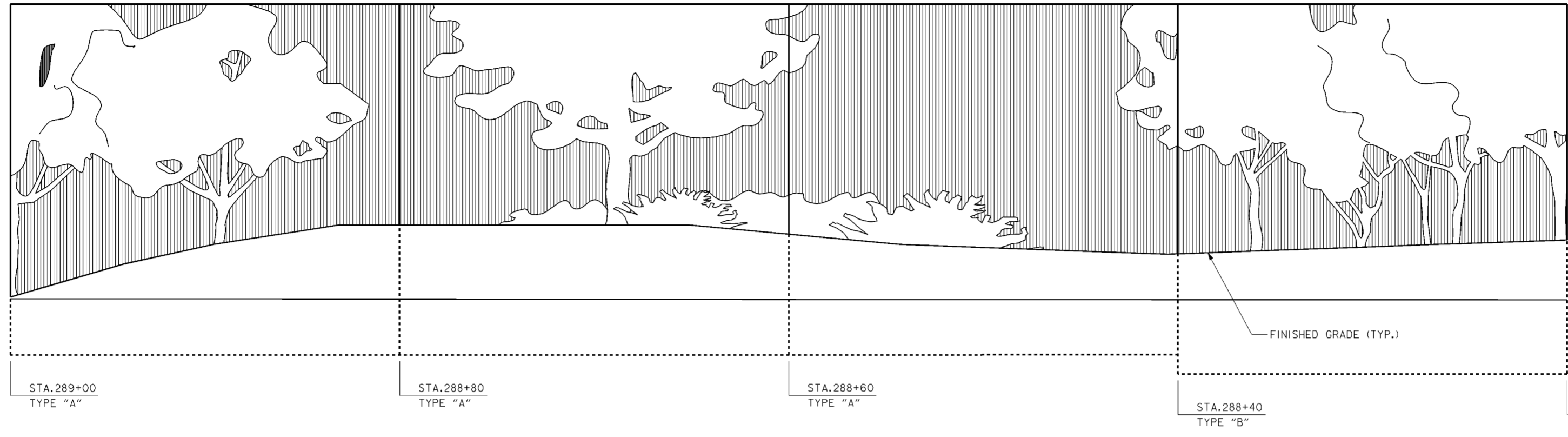
1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

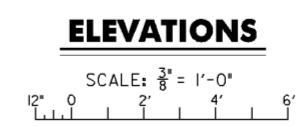
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S.ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J.MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T.MULLINS</b>		<b>WALL GRAPHICS</b>	
Checked by: <b>P.CONROY</b>	Scale: <b>AS SHOWN</b>		
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>10</b> of <b>33</b>



**LEGEND**


-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

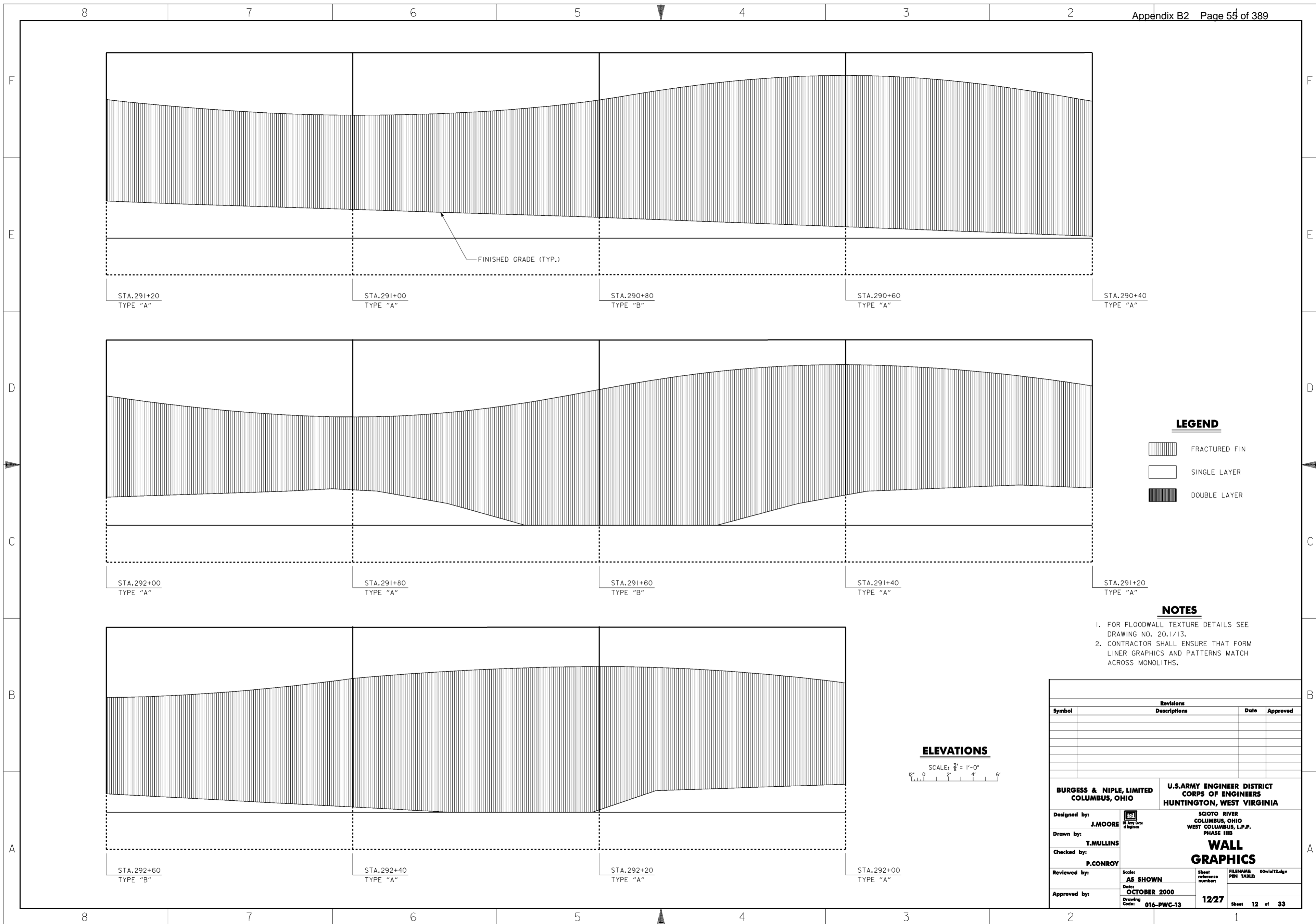
- NOTES**
1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
  2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.



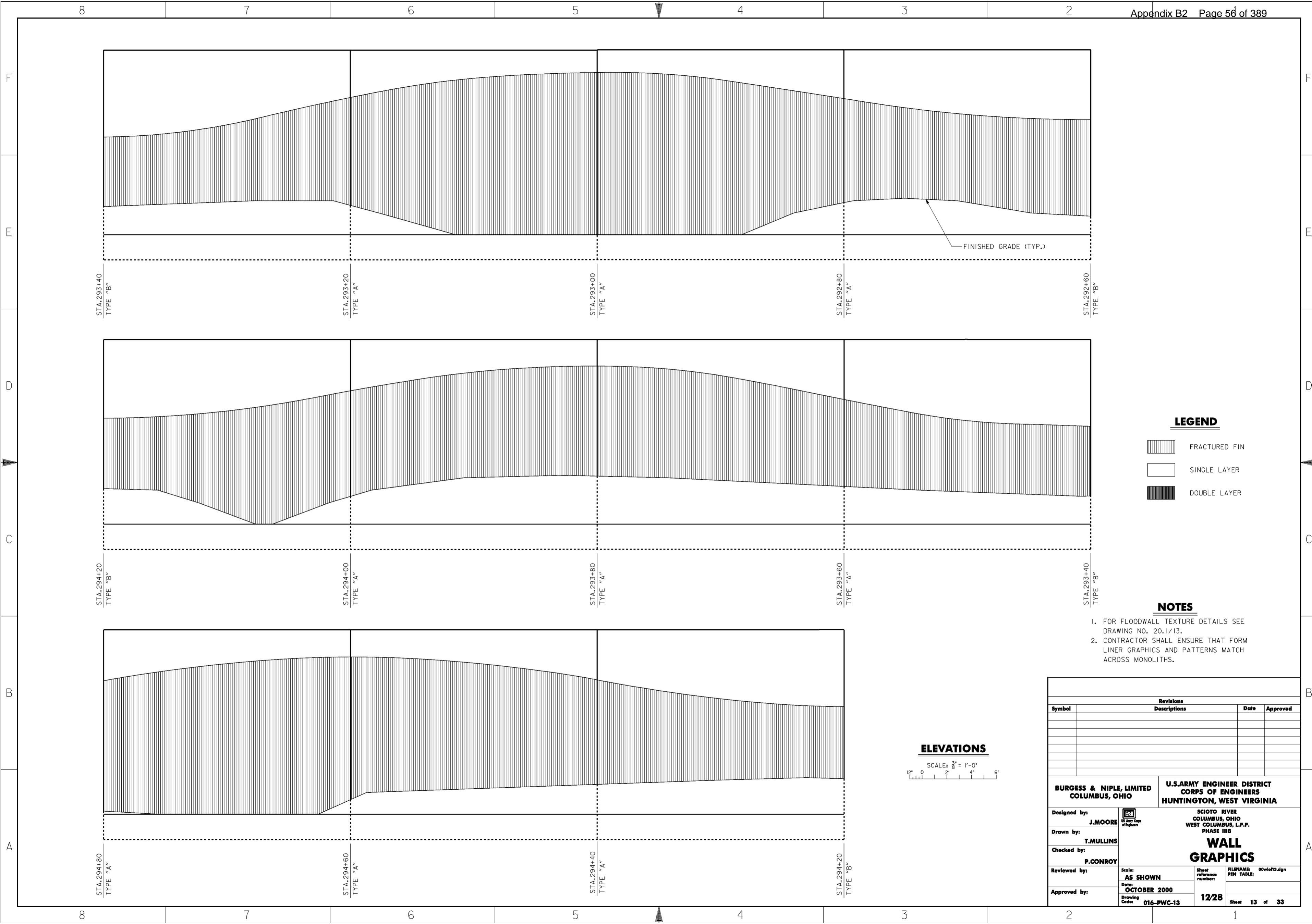
Revisions			
Symbol	Descriptions	Date	Approved




<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. MOORE Registered Professional Engineer State of Ohio, No. 12345	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J. MOORE Drawn by: T. MULLINS Checked by: P. CONROY Reviewed by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>12/26</b> FILENAME: D:\w\11.dgn PIN TABLE: Sheet <b>11</b> of <b>33</b>



WORK AS CONSTRUCTED



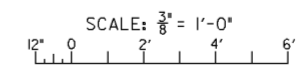
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**



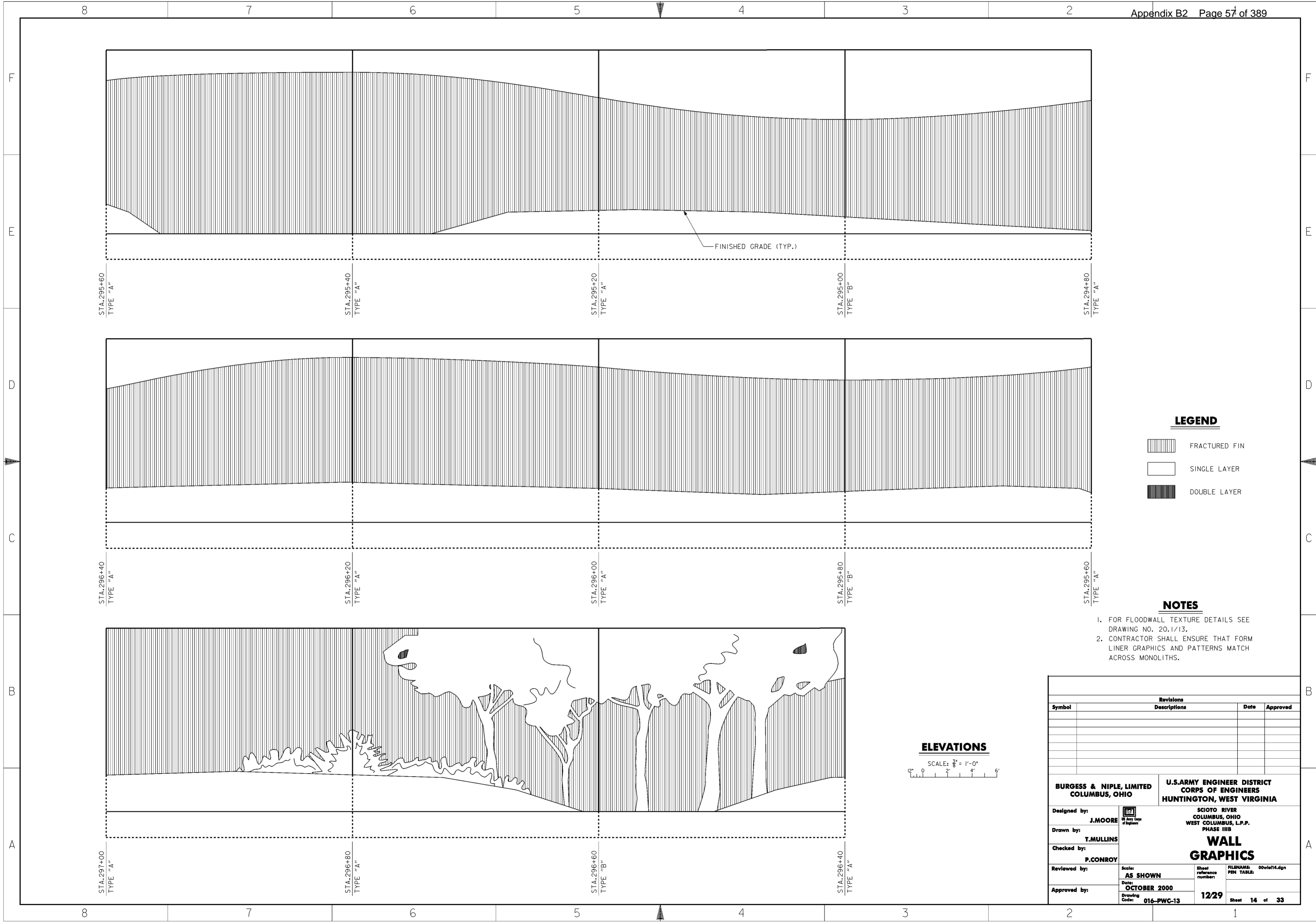
Revisions			
Symbol	Descriptions	Date	Approved




<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. MOORE Drawn by: T. MULLINS Checked by: P. CONROY Reviewed by: AS SHOWN Date: OCTOBER 2000 Drawing Code: 016-PWC-13	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>WALL GRAPHICS</b>	FILENAME: 00vie13.dgn
			Sheet reference number: 12/28 Sheet 13 of 33

**WORK AS CONSTRUCTED**





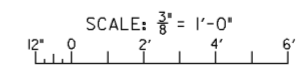
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

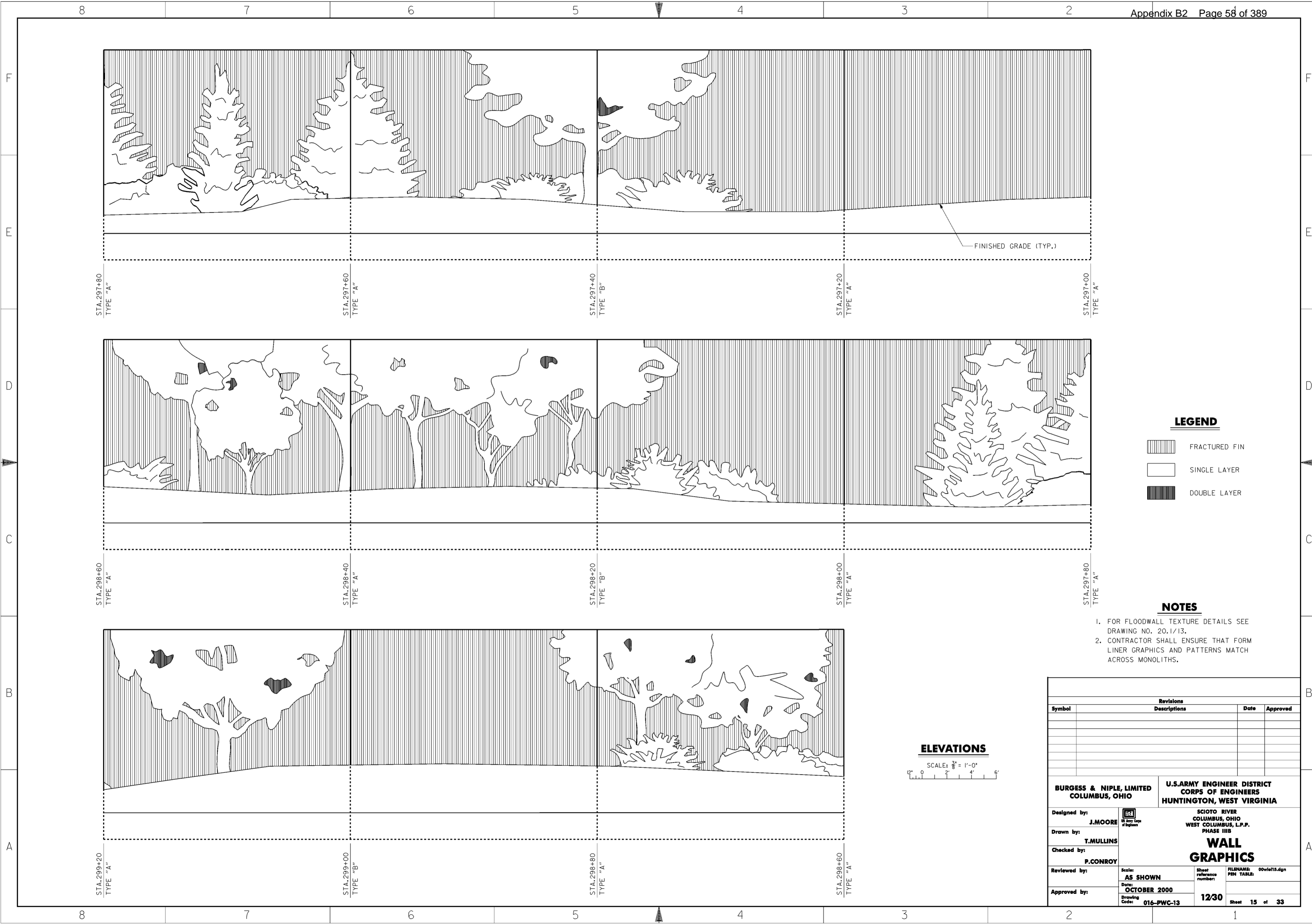


Revisions			
Symbol	Descriptions	Date	Approved




  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. MOORE Drawn by: T. MULLINS Checked by: P. CONROY Reviewed by: AS SHOWN Date: OCTOBER 2000 Drawing Code: 016-PWC-13	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>WALL GRAPHICS</b>	FILENAME: 00vie14.dgn
			SHEET REFERENCE NUMBER: 12/29 Sheet 14 of 33

**WORK AS CONSTRUCTED**



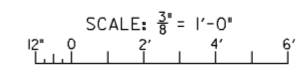
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

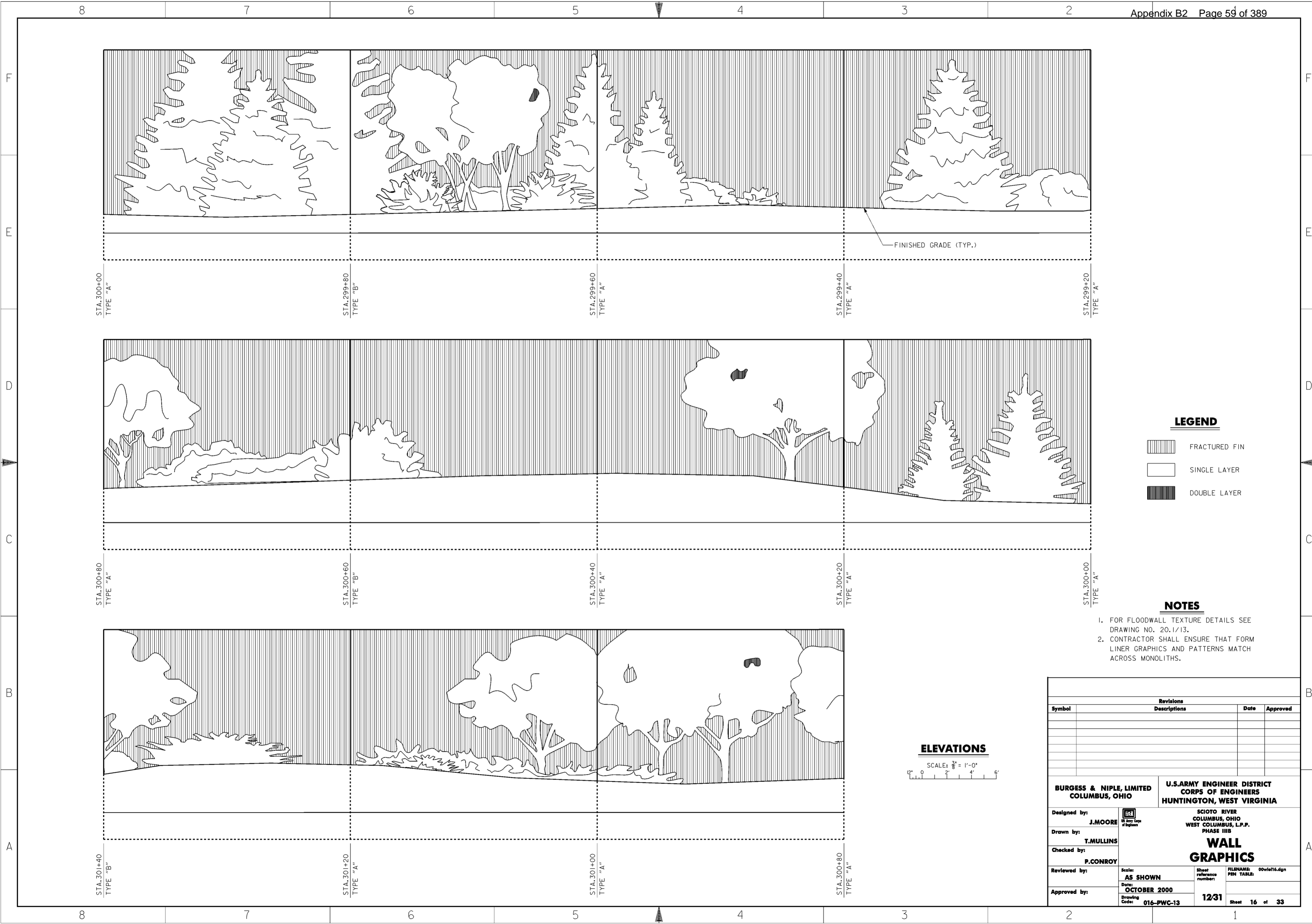
**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	<b>J. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>WALL GRAPHICS</b>	
Drawn by:	<b>T. MULLINS</b>		
Checked by:	<b>P. CONROY</b>		
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>12/30</b>	FILENAME: 00w1e19.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	PIN TABLE:
			Sheet <b>15</b> of <b>33</b>

**WORK AS CONSTRUCTED**



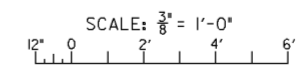
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

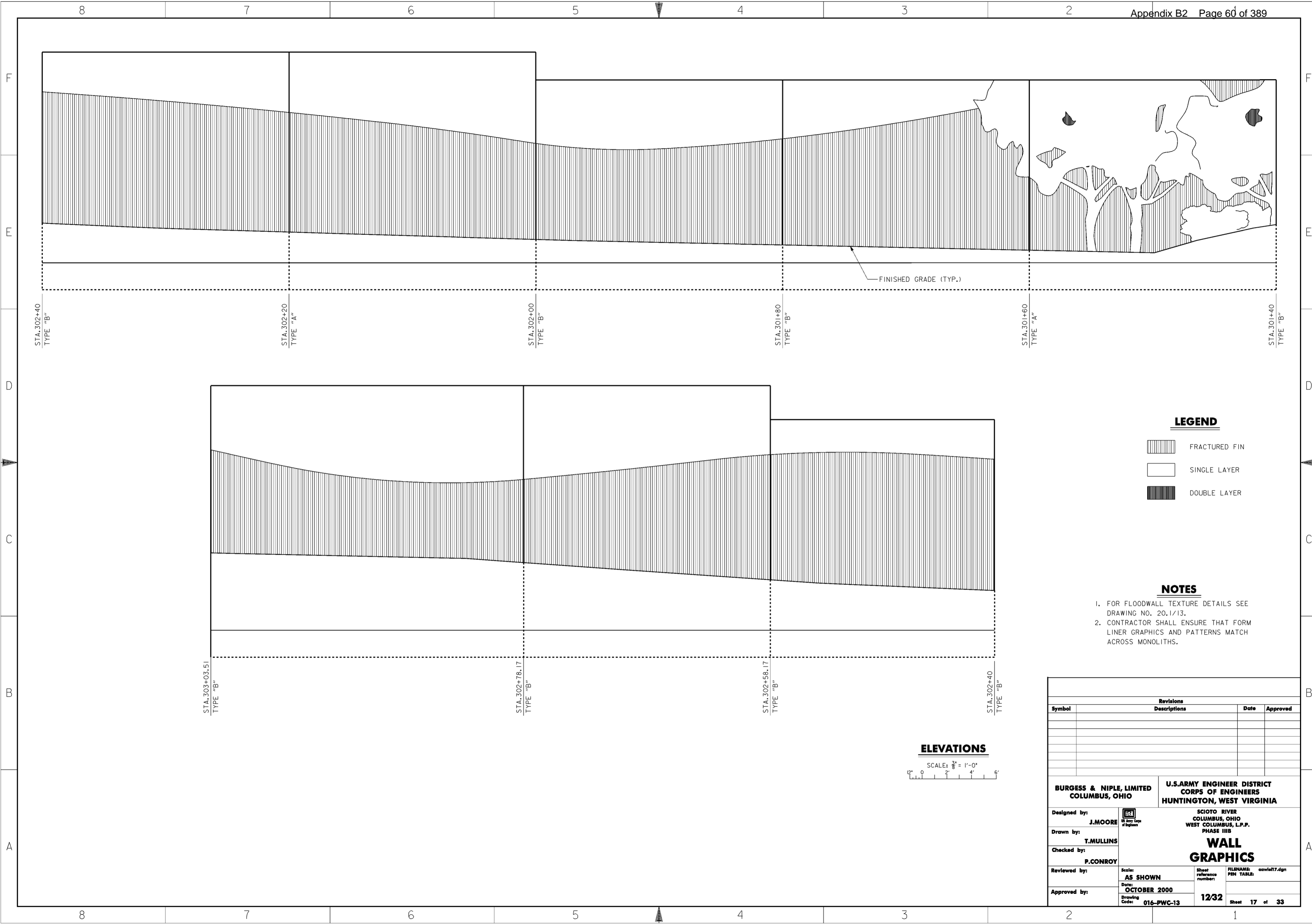


Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>J. MOORE</b>	<p style="text-align: center;"><b>WALL GRAPHICS</b></p> Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Drawn by: <b>T. MULLINS</b>	
Checked by: <b>P. CONROY</b>	
Reviewed by:	
Approved by:	FILENAME: 00vie16.dgn PEN TABLE: 12/31 Sheet 16 of 33

**WORK AS CONSTRUCTED**



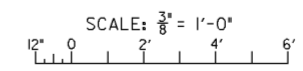
**LEGEND**

- FRACTURED FIN
- SINGLE LAYER
- DOUBLE LAYER

**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

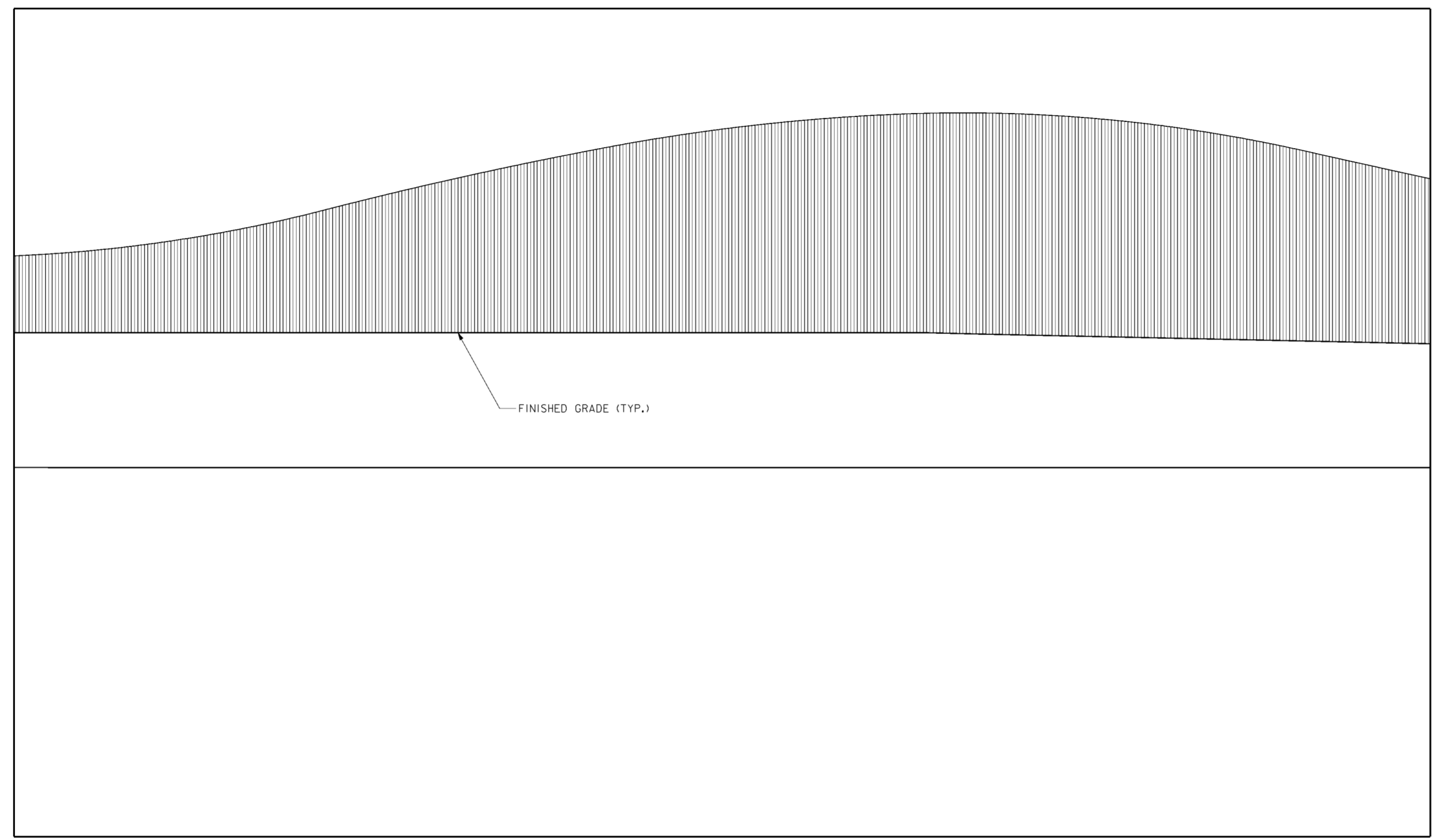
**ELEVATIONS**



Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO  Designed by: <b>J. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by: <b>AS SHOWN</b> Approved by: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA  SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB  <b>WALL GRAPHICS</b>  Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b> Sheet reference number: <b>12/32</b> FILENAME: <b>aw1e17.dgn</b> PIN TABLE: Sheet <b>17</b> of <b>33</b>
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**WORK AS CONSTRUCTED**



STA. 303+75.18  
TYPE "B"

STA. 303+03.51  
TYPE "B"

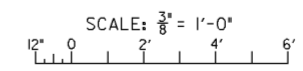
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER


**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

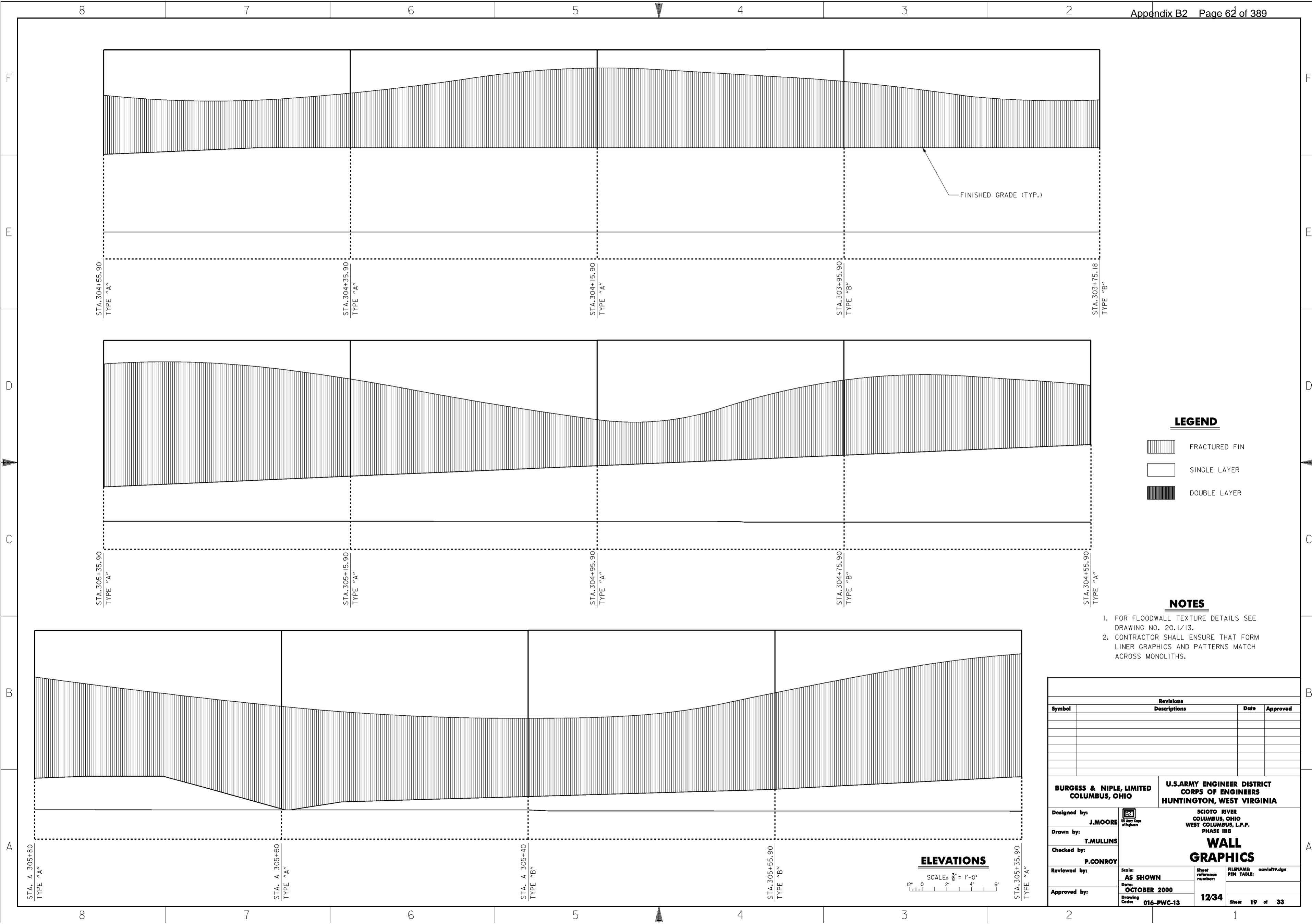
**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>		<b>WALL GRAPHICS</b>	
Checked by: <b>P. CONROY</b>			
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>12/33</b>	FILENAME: PIN TABLE: aaw1e18.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>18</b> of <b>33</b>

**WORK AS CONSTRUCTED**



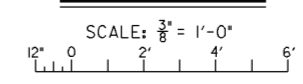
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

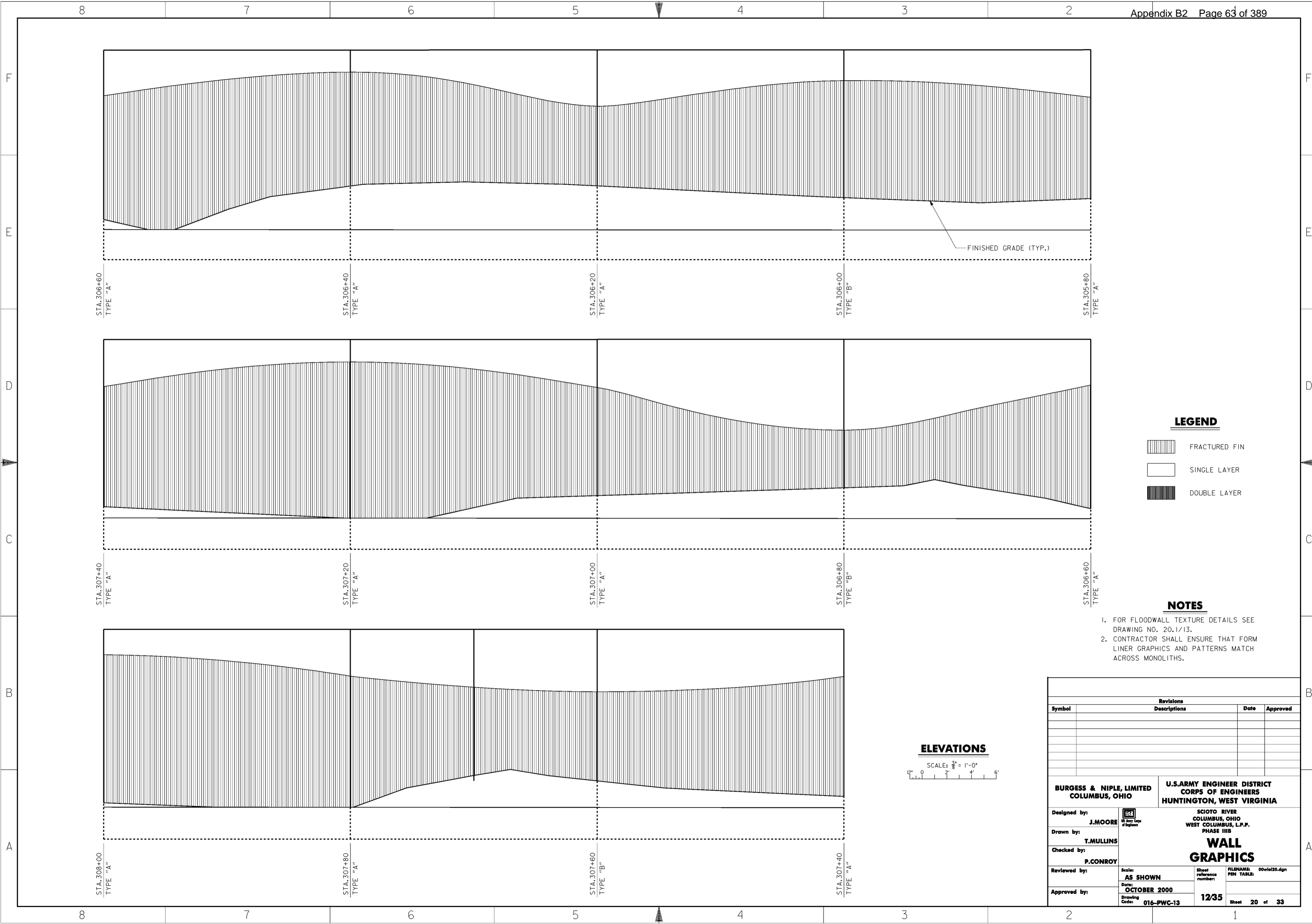


Revisions			
Symbol	Descriptions	Date	Approved




  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. MOORE Registered Professional Engineer State of Ohio	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J. MOORE Drawn by: T. MULLINS Checked by: P. CONROY Reviewed by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>12/34</b> FILENAME: <b>aww1e19.dgn</b> PIN TABLE: Sheet <b>19</b> of <b>33</b>

**WORK AS CONSTRUCTED**



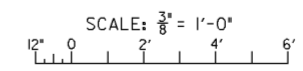
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

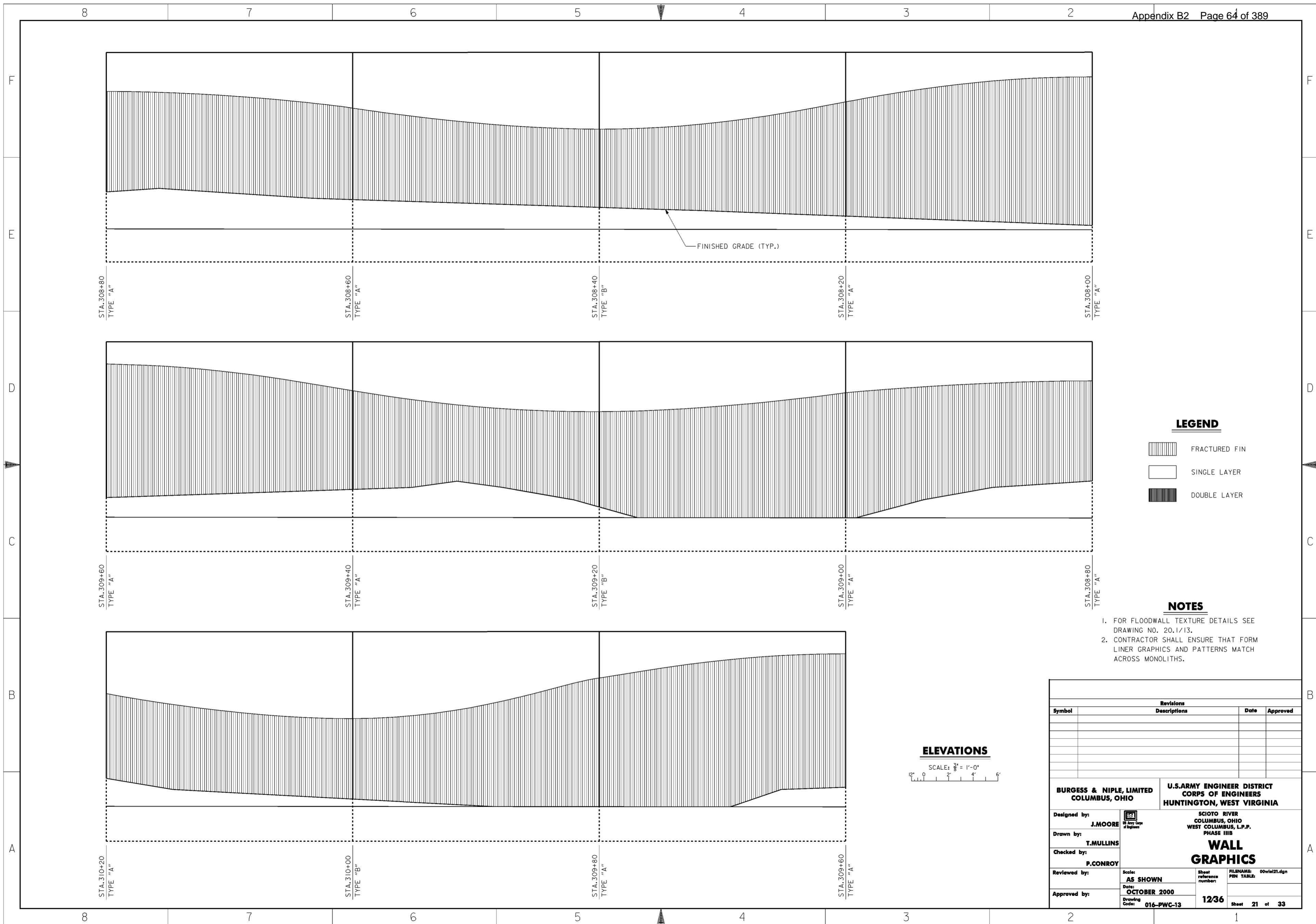


Revisions			
Symbol	Descriptions	Date	Approved




<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 <b>J. MOORE</b> Registered Professional Engineer State of Ohio, No. 12345	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by:	<b>T. MULLINS</b>	<b>WALL GRAPHICS</b>	
Checked by:	<b>P. CONROY</b>		
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number:	FILENAME: 00wiel20.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	PEN TABLE:
		12/35	Sheet 20 of 33

**WORK AS CONSTRUCTED**



FINISHED GRADE (TYP.)

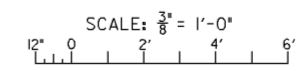
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER


**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

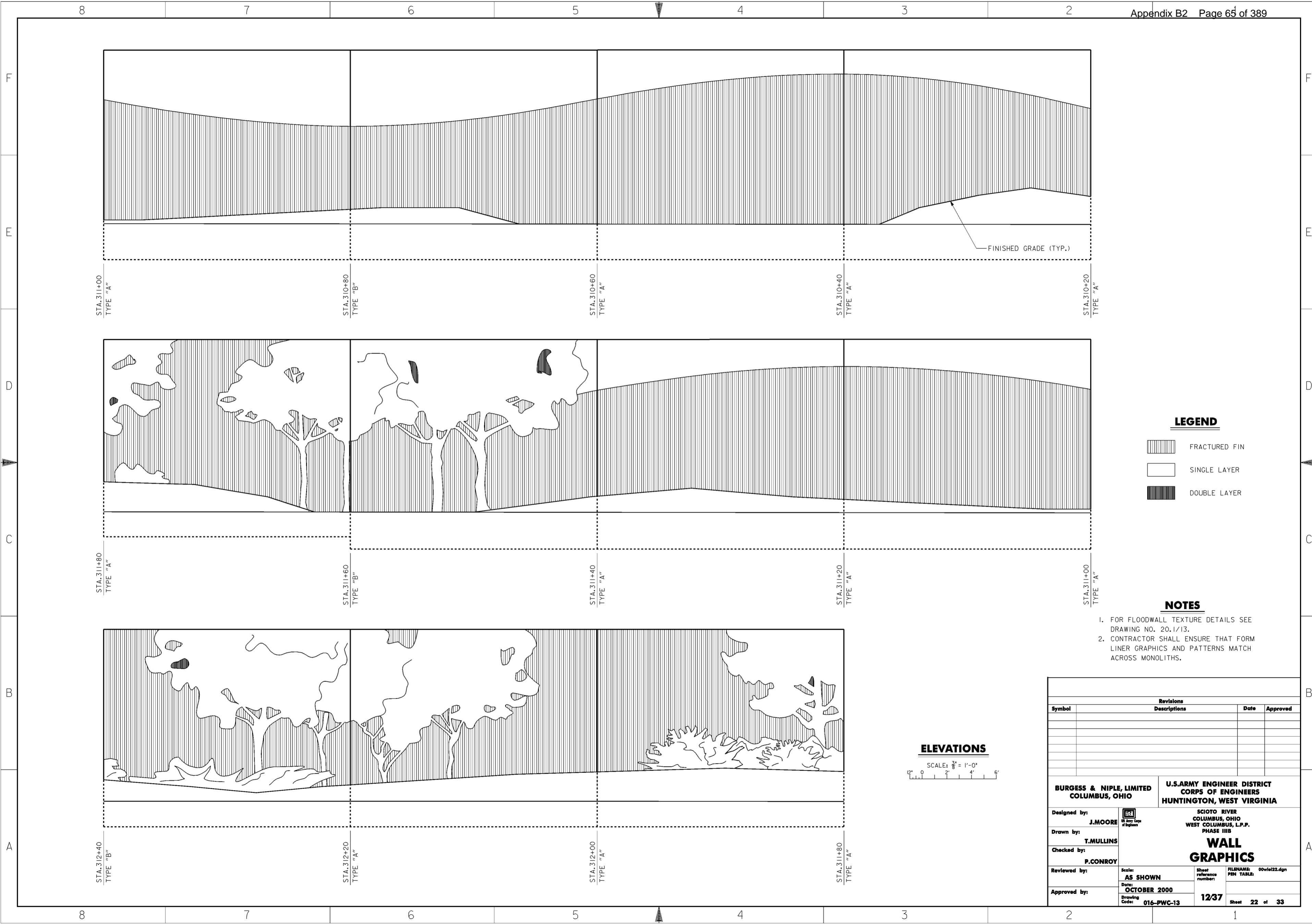


Revisions			
Symbol	Descriptions	Date	Approved




<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. MOORE</b>		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>		<b>WALL GRAPHICS</b>	
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>		
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>21</b> of <b>33</b>

**WORK AS CONSTRUCTED**





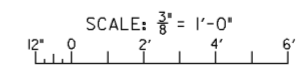
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

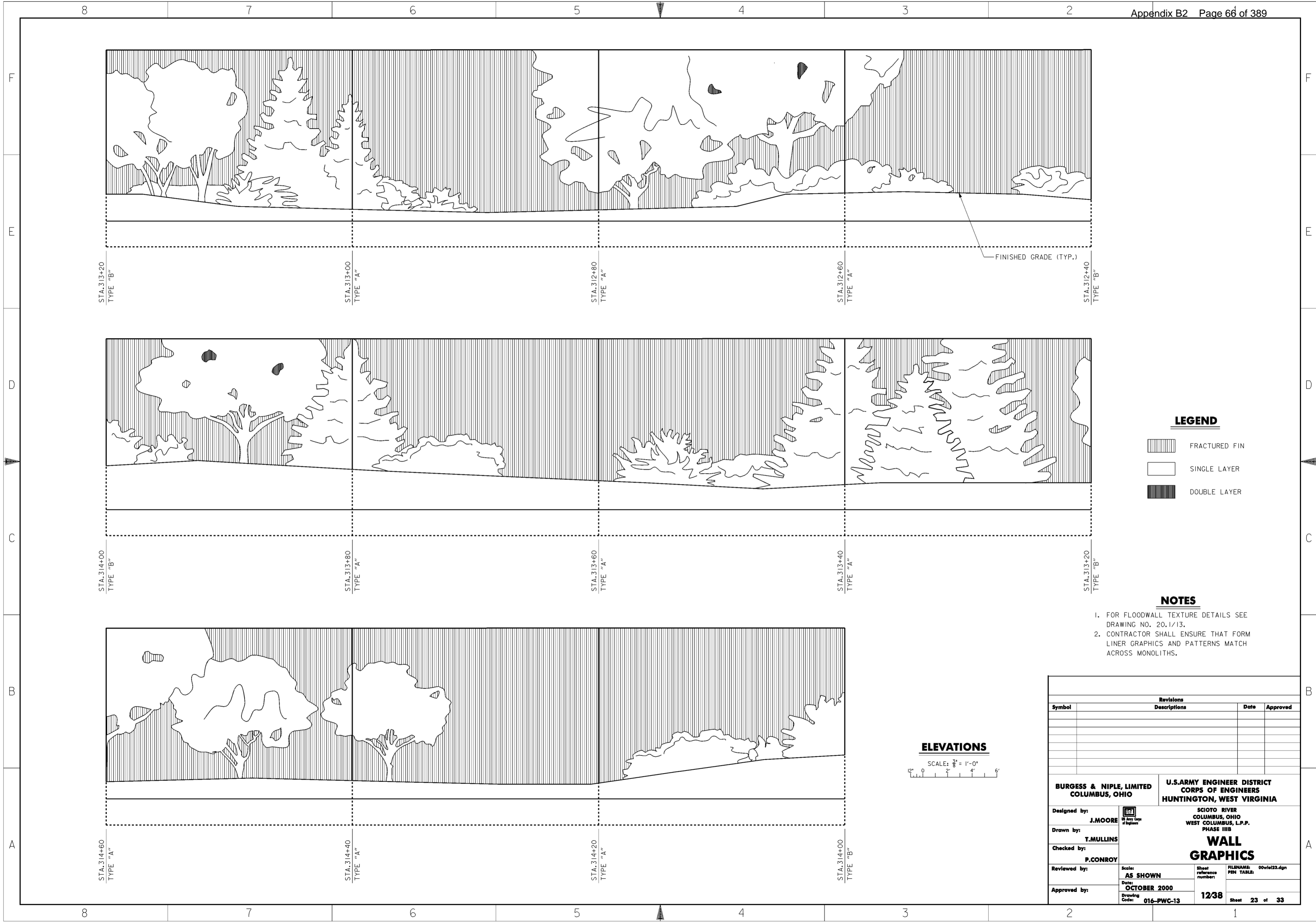


Revisions			
Symbol	Descriptions	Date	Approved




  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. MOORE</b>	<p style="text-align: center;"><b>WALL GRAPHICS</b></p> Scale: <b>AS SHOWN</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>12/37</b>	FILENAME: PIN TABLE: 00wiel22.dgn
Drawing Code: <b>016-PWC-13</b>	Sheet <b>22</b> of <b>33</b>	Sheet <b>22</b> of <b>33</b>	Sheet <b>22</b> of <b>33</b>

**WORK AS CONSTRUCTED**



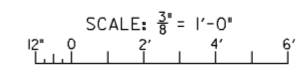
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

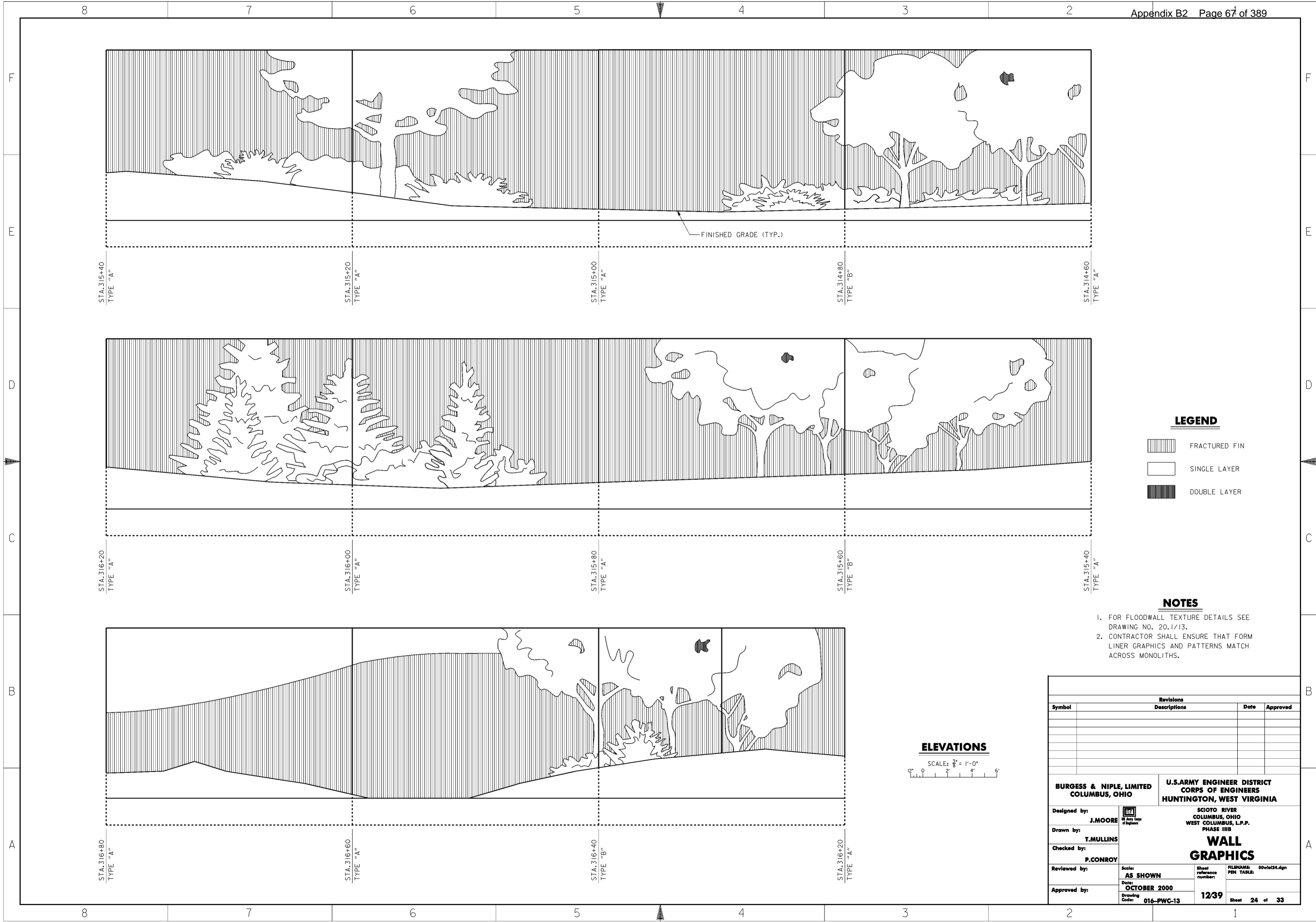


Revisions			
Symbol	Descriptions	Date	Approved




<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. MOORE Registered Professional Engineer State of Ohio, No. 12345	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: J. MOORE Drawn by: T. MULLINS Checked by: P. CONROY Reviewed by: AS SHOWN Date: OCTOBER 2000 Approved by:	<b>WALL GRAPHICS</b>	Scale: AS SHOWN Date: OCTOBER 2000 Drawing Code: 016-PWC-13
SHEET REFERENCE NUMBER: 12/38		FILENAME: 00vie123.dgn PIN TABLE: Sheet 23 of 33

**WORK AS CONSTRUCTED**



FINISHED GRADE (TYP.)

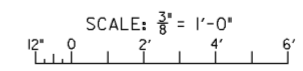
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER


**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

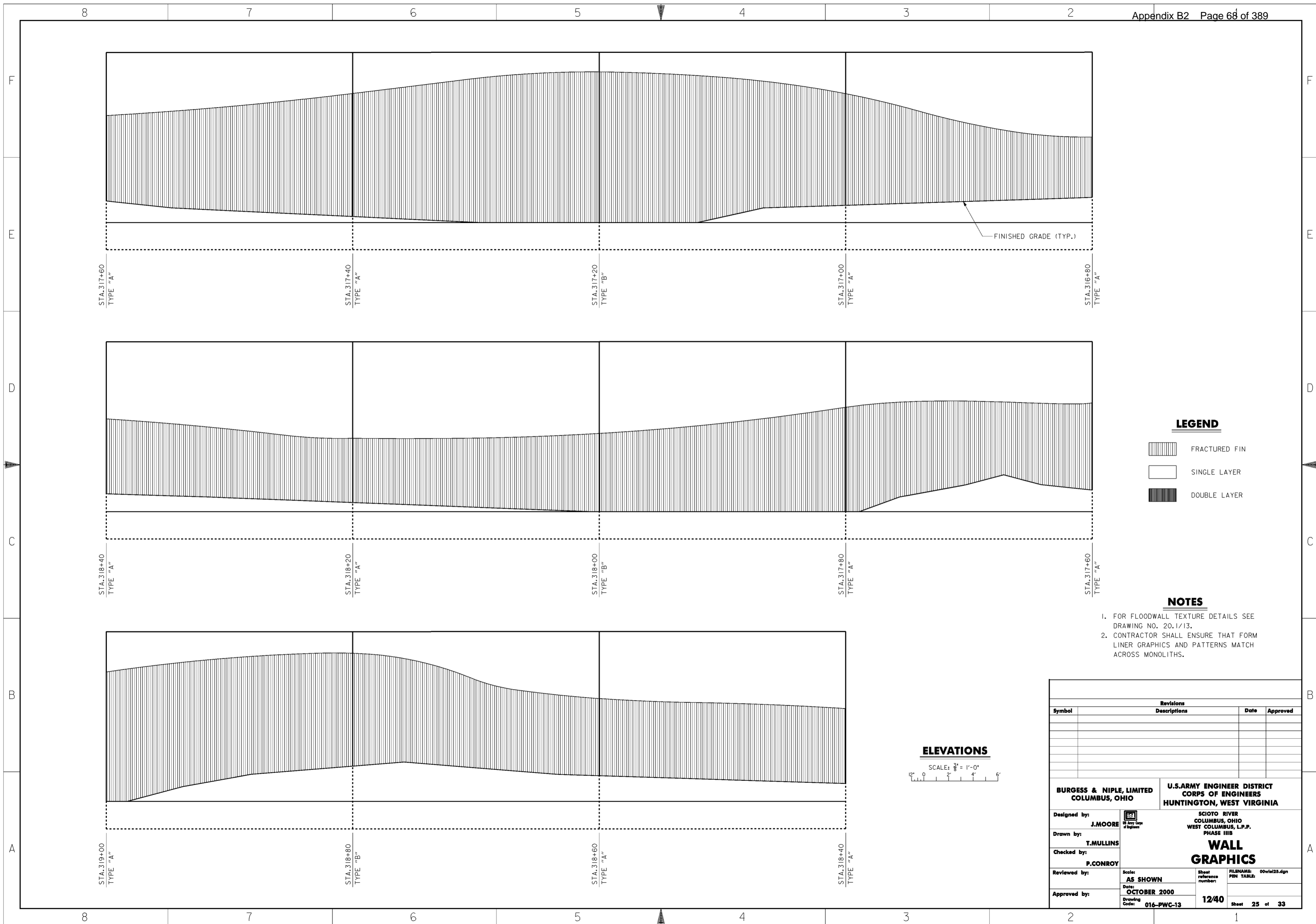
**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. MOORE</b>		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>		<b>WALL GRAPHICS</b>	
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>12/39</b>	FILENAME: PIN TABLE: 00vie124.dgn
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>24</b> of <b>33</b>
Approved by:			

**WORK AS CONSTRUCTED**



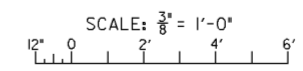
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

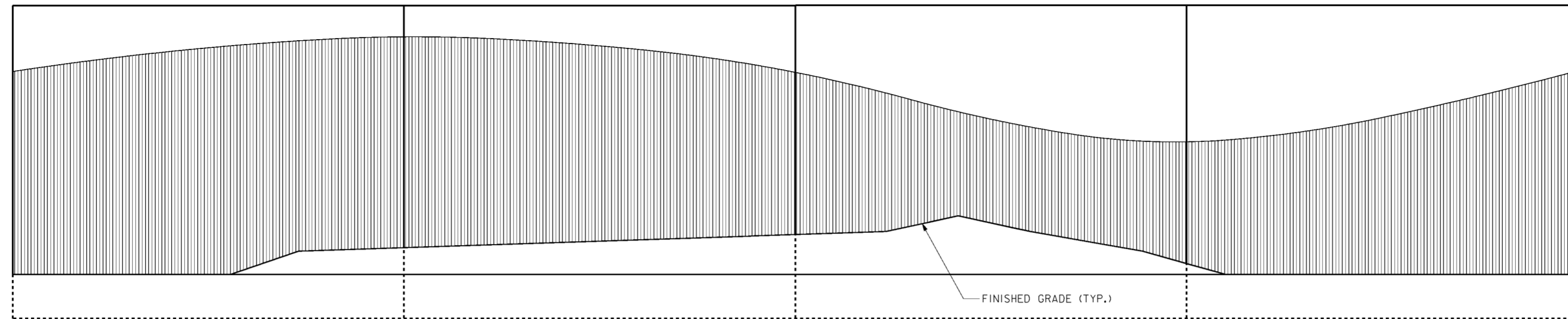


Revisions			
Symbol	Descriptions	Date	Approved

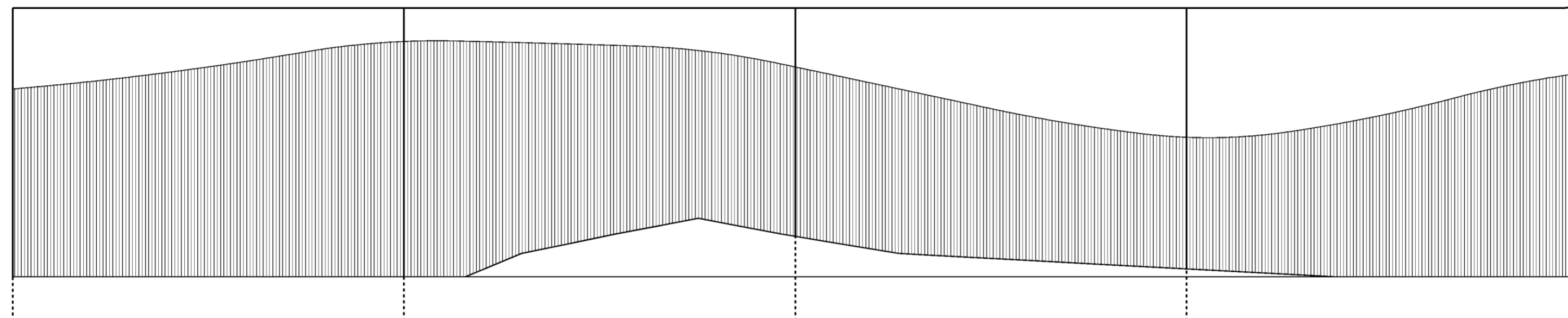
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. MOORE Registered Professional Engineer State of Ohio	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by:	J. MOORE	<b>WALL GRAPHICS</b>
Drawn by:	T. MULLINS	
Checked by:	P. CONROY	
Reviewed by:	AS SHOWN	
Approved by:	OCTOBER 2000	
Drawing Code:	016-PWC-13	Scale: AS SHOWN Date: OCTOBER 2000 Drawing Code: 016-PWC-13
Sheet reference number:	12/40	FILENAME: 00wiel23.dgn PIN TABLE: Sheet 25 of 33

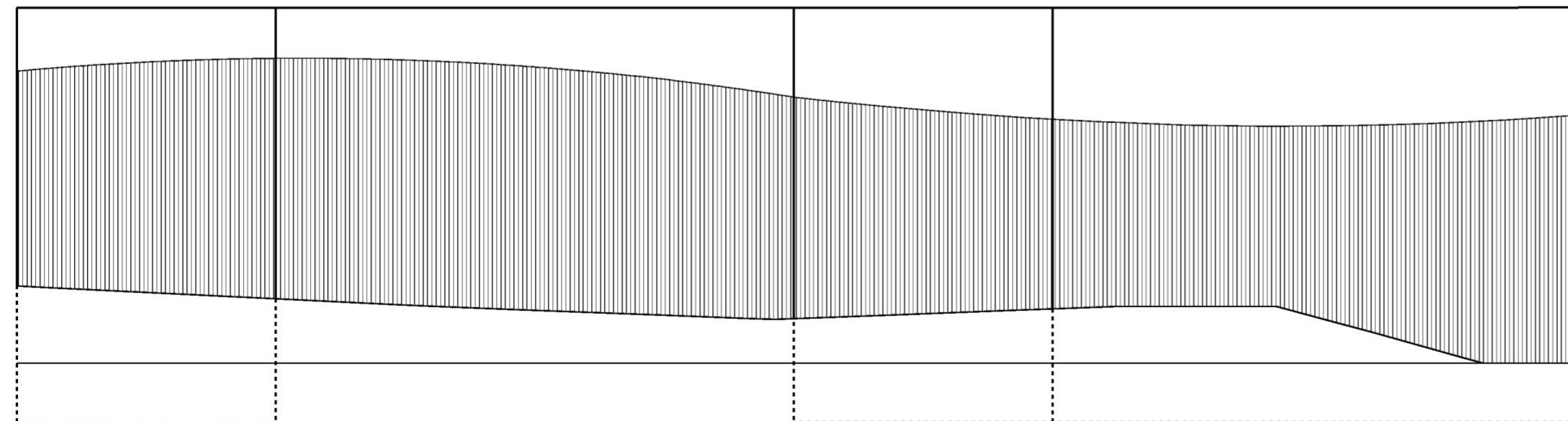
**WORK AS CONSTRUCTED**



STA. 319+80 TYPE "A"      STA. 319+60 TYPE "B"      STA. 319+40 TYPE "A"      STA. 319+20 TYPE "A"      STA. 319+00 TYPE "A"



STA. 320+60 TYPE "A"      STA. 320+40 TYPE "B"      STA. 320+20 TYPE "A"      STA. 320+00 TYPE "A"      STA. 319+80 TYPE "A"



STA. 321+20 TYPE "A"      STA. 321+10 TYPE "B"      STA. 320+90 TYPE "B"      STA. 320+80 TYPE "A"      STA. 320+60 TYPE "A"

**LEGEND**

- FRACTURED FIN
- SINGLE LAYER
- DOUBLE LAYER

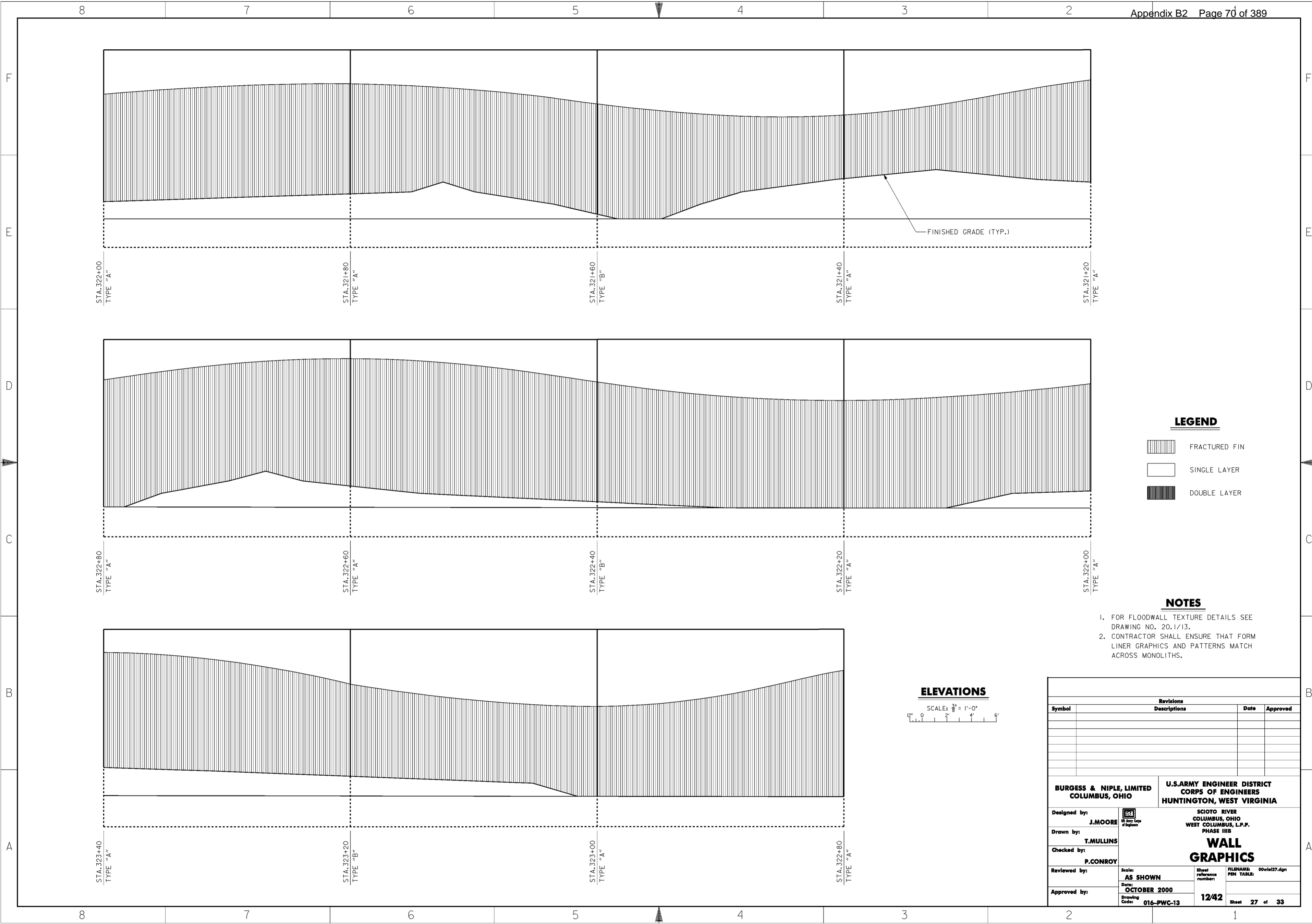
- NOTES**
1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
  2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**




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

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>		<b>WALL GRAPHICS</b>	
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>		
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	PIN TABLE: <b>Sheet 26 of 33</b>



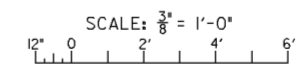
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

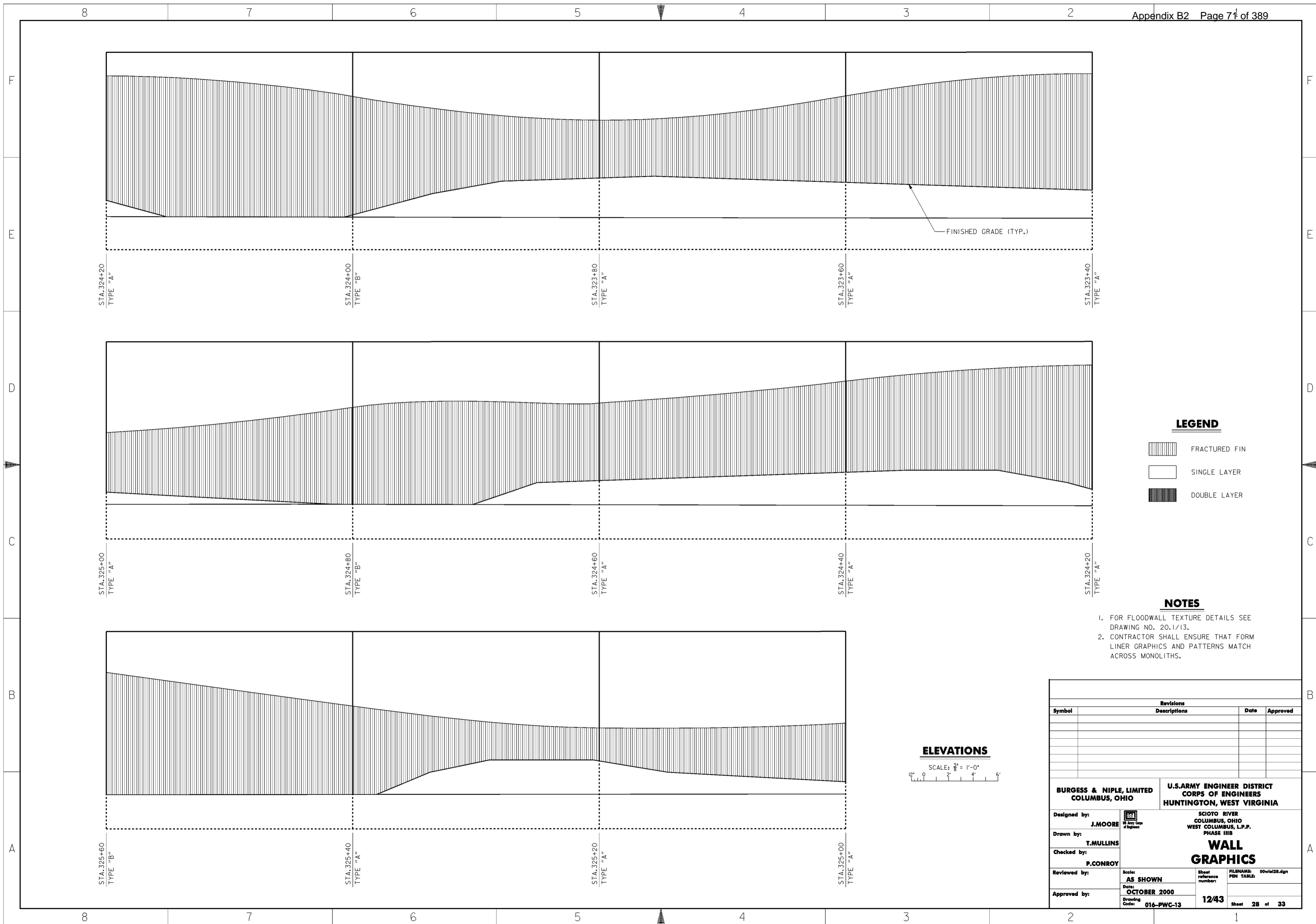
**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. MOORE</b>	<p style="text-align: center;"><b>WALL GRAPHICS</b></p> Scale: <b>AS SHOWN</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by: Date: <b>OCTOBER 2000</b>			
Approved by:	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>12/42</b>	FILENAME: PEN TABLE: 00vie127.dgn



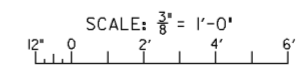
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

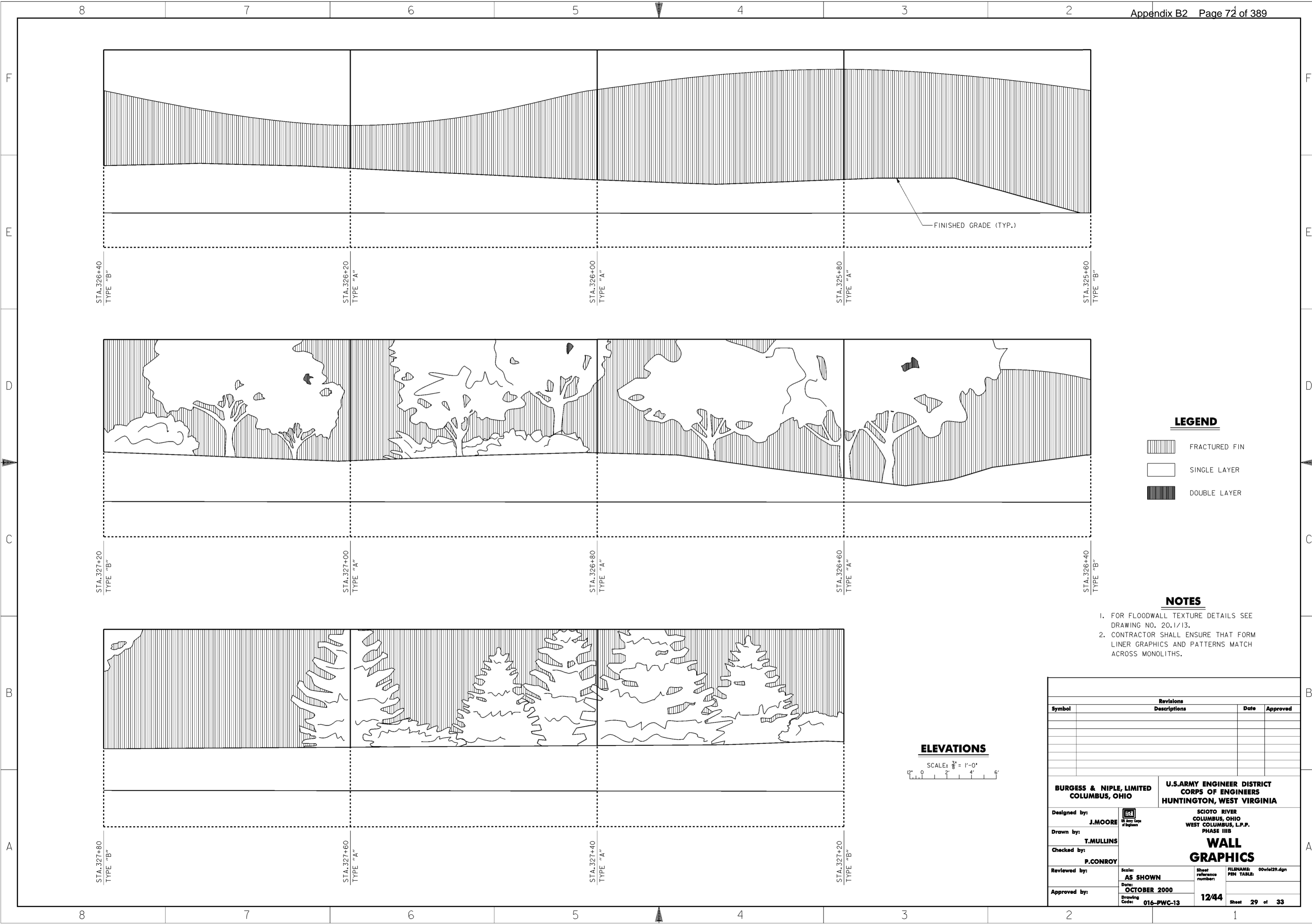
**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. MOORE T. MULLINS P. CONROY	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB
Designed by: J. MOORE Drawn by: T. MULLINS Checked by: P. CONROY Reviewed by: AS SHOWN Date: OCTOBER 2000 Approved by:	Scale: AS SHOWN Date: OCTOBER 2000 Drawing Code: 016-PWC-13	Sheet reference number: 12/43 FILENAME: 00vie128.dgn PIN TABLE: Sheet 28 of 33	Approved by:



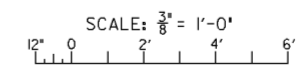
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

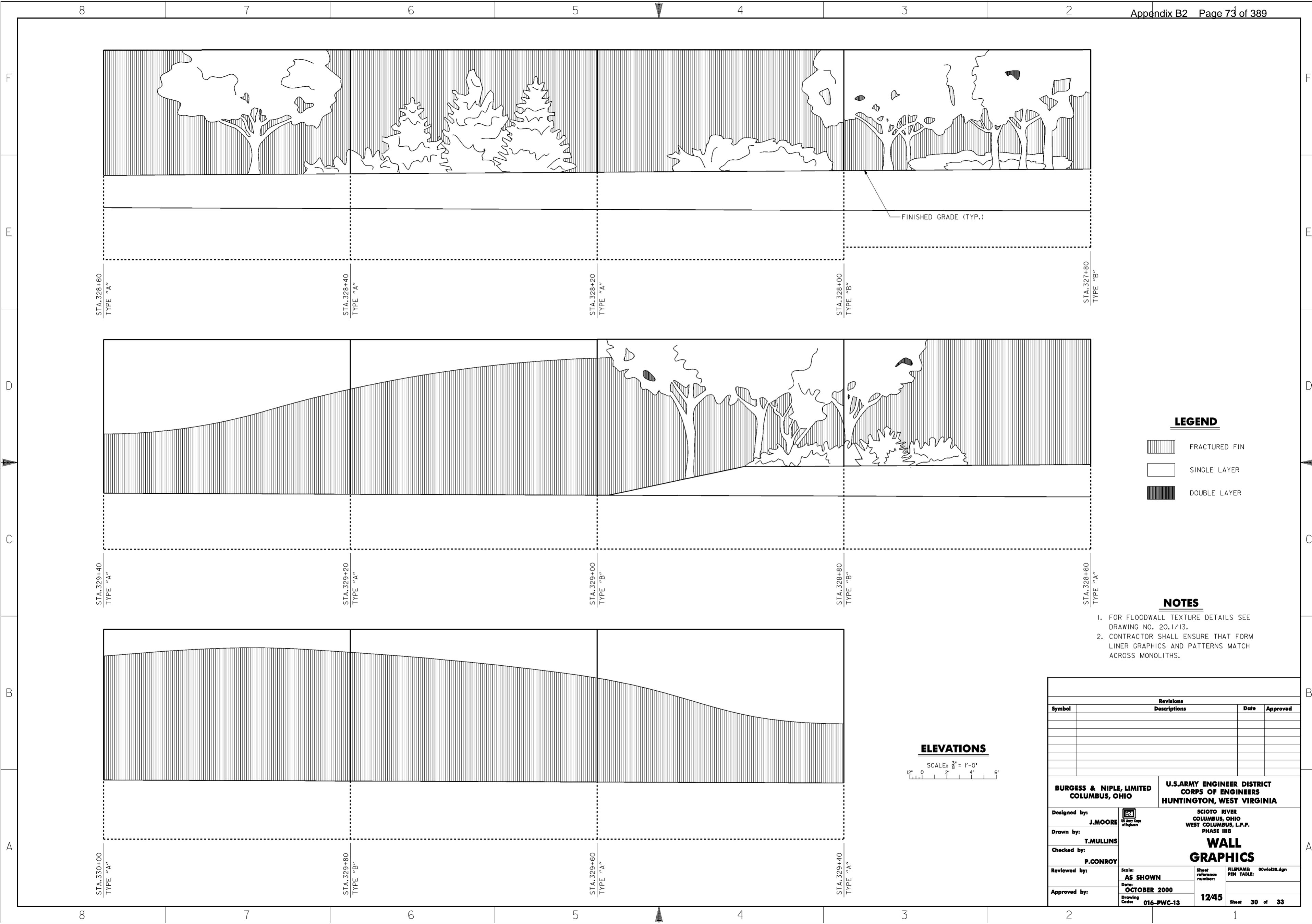


Revisions			
Symbol	Descriptions	Date	Approved




<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. MOORE</b>	<p style="text-align: center;"><b>WALL GRAPHICS</b></p> Scale: <b>AS SHOWN</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>12/44</b>	FILENAME: PIN TABLE: 00wiel29.dgn
Drawing Code: <b>016-PWC-13</b>	Sheet <b>29</b> of <b>33</b>	WORK AS CONSTRUCTED	





FINISHED GRADE (TYP.)

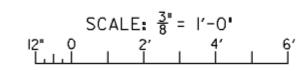
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER


**NOTES**

1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

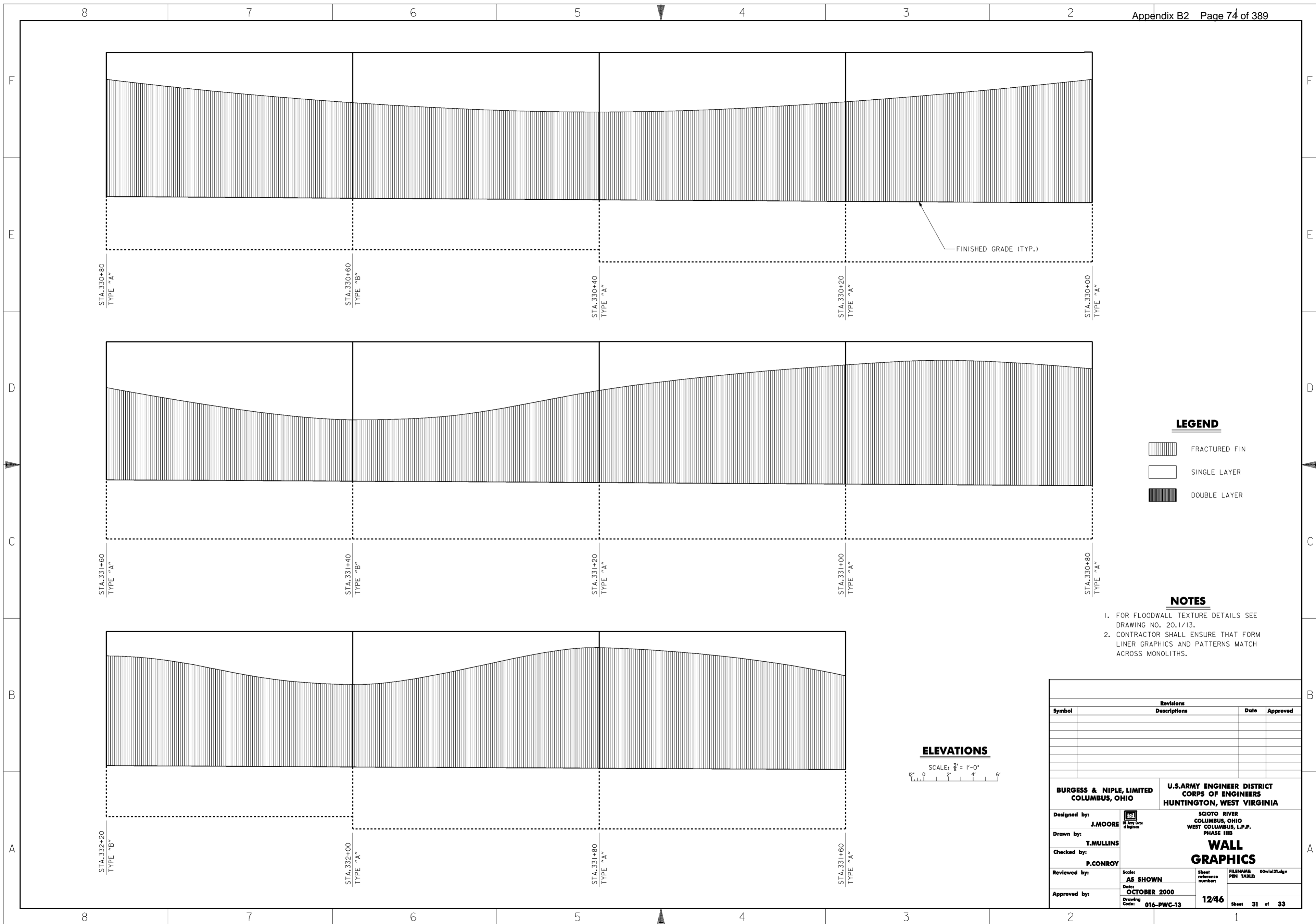
**ELEVATIONS**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. MOORE</b>		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>		<b>WALL GRAPHICS</b>	
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>		
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>30</b> of <b>33</b>

**WORK AS CONSTRUCTED**



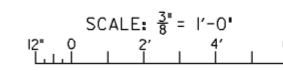
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

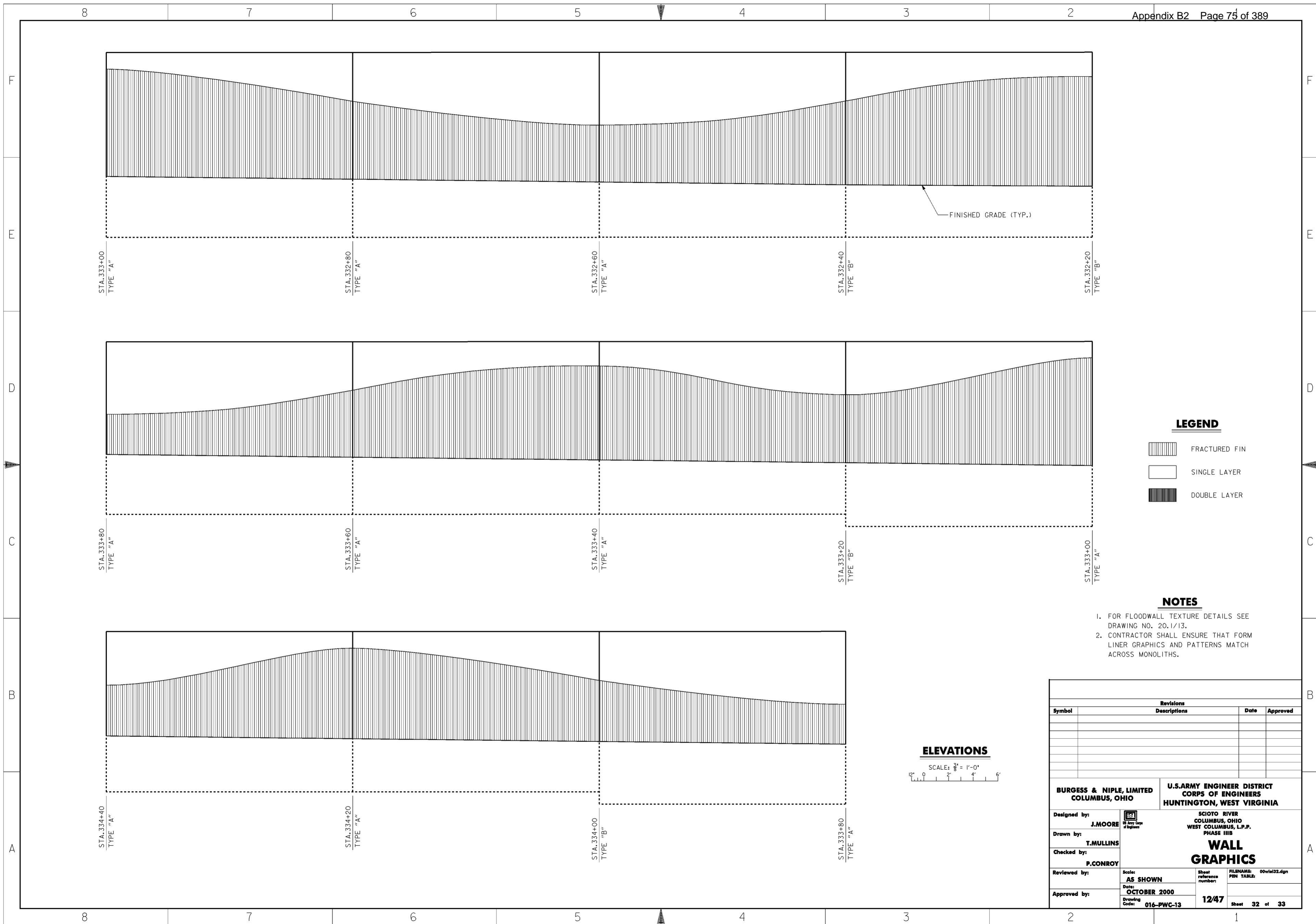


Revisions			
Symbol	Descriptions	Date	Approved

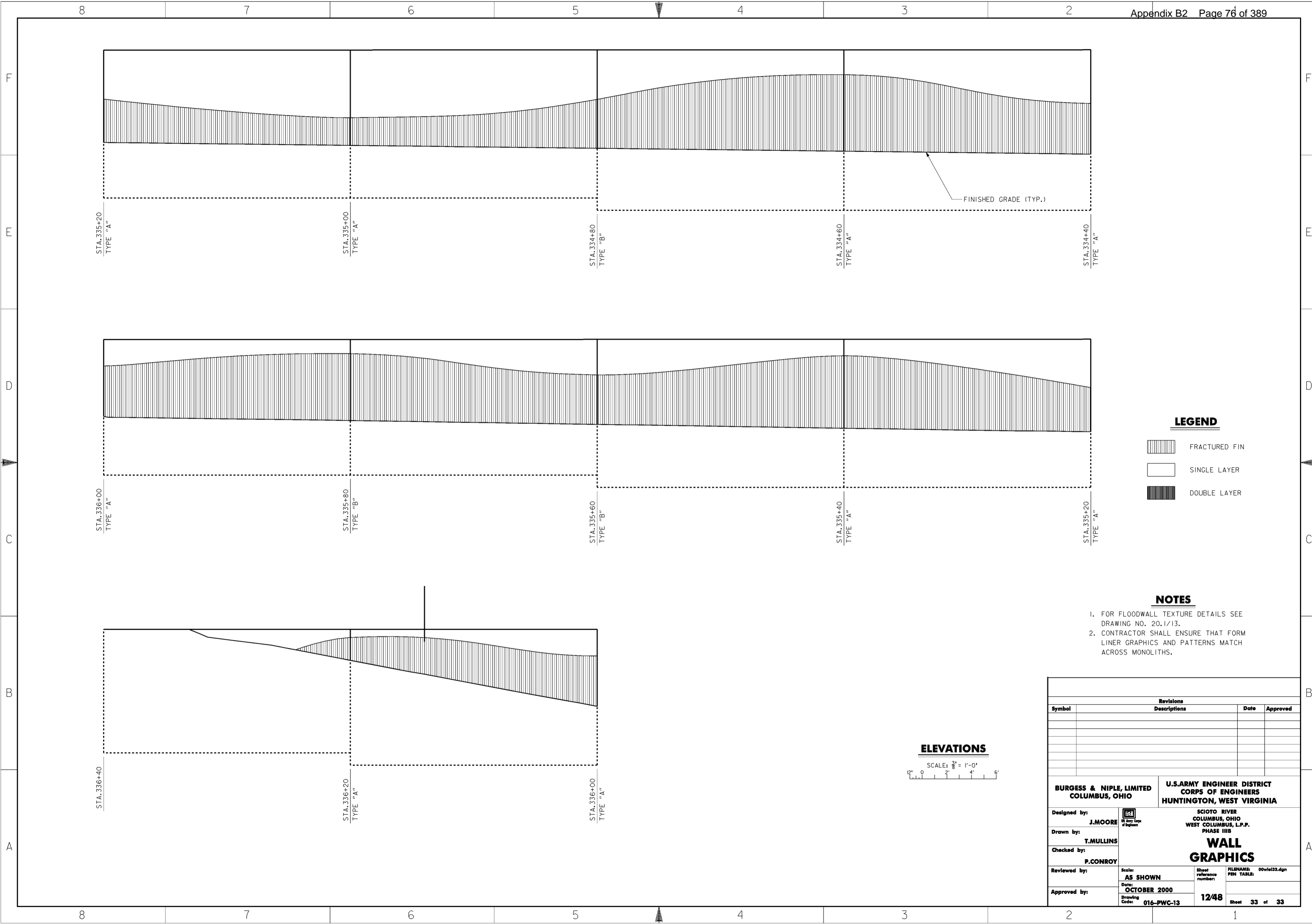
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. MOORE</b>	<b>WALL GRAPHICS</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>12/46</b>	FILENAME: PIN TABLE: 00wiel31.dgn
Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>31</b> of <b>33</b>	

**WORK AS CONSTRUCTED**






Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. MOORE</b>	<b>WALL GRAPHICS</b>	Scale: <b>AS SHOWN</b>	FILENAME: 00vie132.dgn
Drawn by: <b>T. MULLINS</b>		Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>12/47</b>
Checked by: <b>P. CONROY</b>		Drawing Code: <b>016-PWC-13</b>	Sheet <b>32 of 33</b>
Reviewed by: <b>AS SHOWN</b>	Approved by: _____	WORK AS CONSTRUCTED	



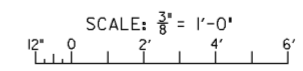
**LEGEND**

-  FRACTURED FIN
-  SINGLE LAYER
-  DOUBLE LAYER

**NOTES**


1. FOR FLOODWALL TEXTURE DETAILS SEE DRAWING NO. 20.1/13.
2. CONTRACTOR SHALL ENSURE THAT FORM LINER GRAPHICS AND PATTERNS MATCH ACROSS MONOLITHS.

**ELEVATIONS**

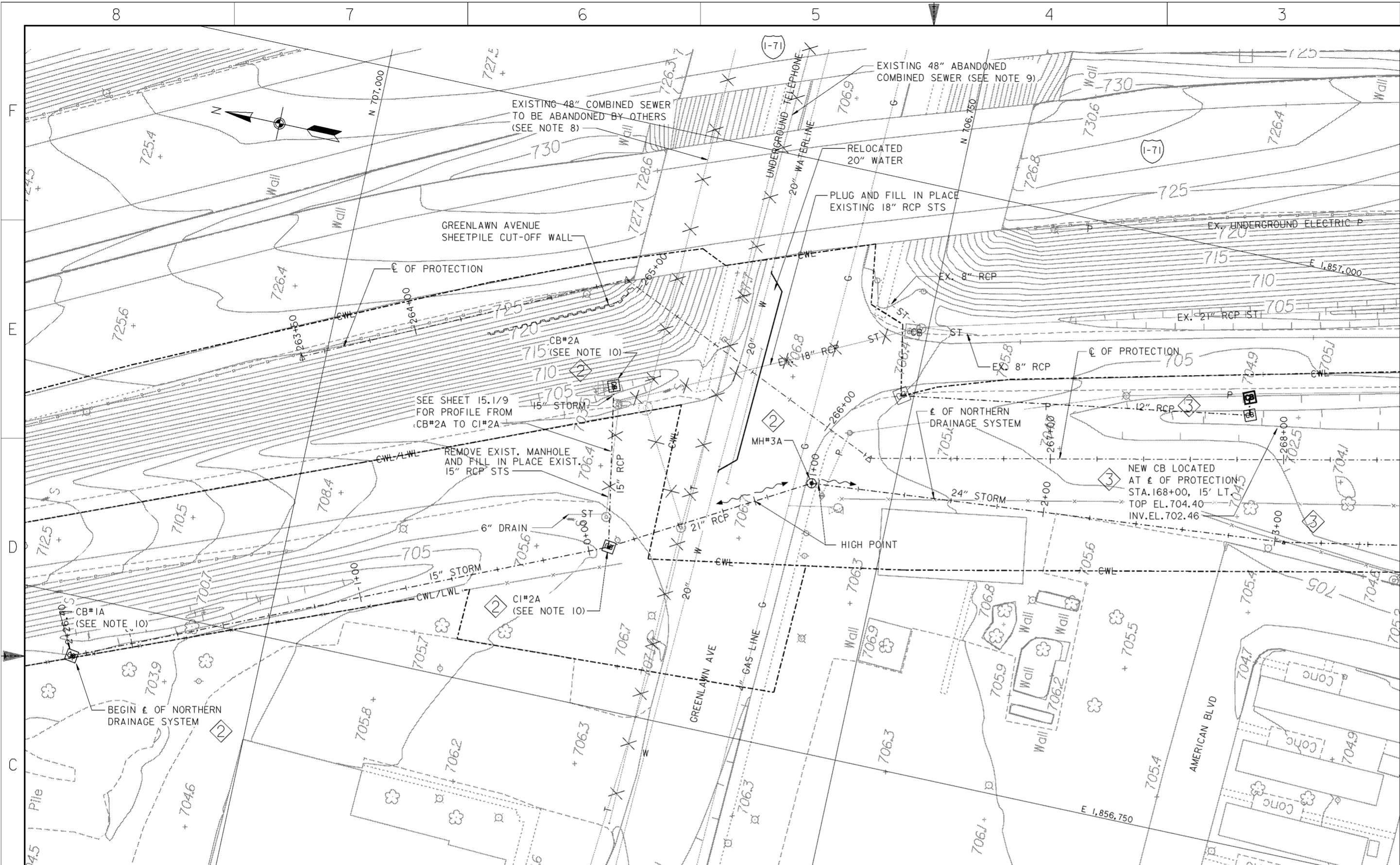


Revisions			
Symbol	Descriptions	Date	Approved

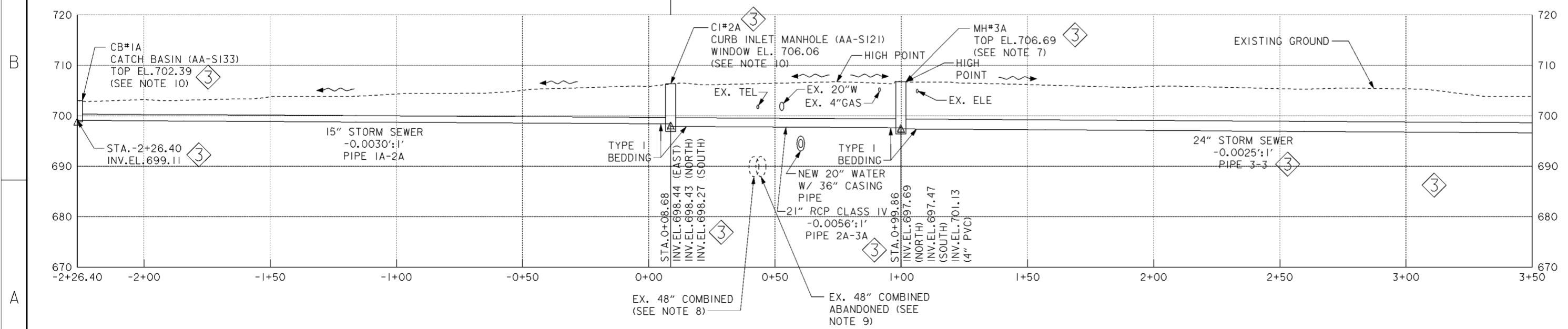
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. MOORE</b>	<p style="text-align: center;"><b>WALL GRAPHICS</b></p>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>12/48</b>	FILENAME: PIN TABLE: 00vie133.dgn
Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>33 of 33</b>	

**WORK AS CONSTRUCTED**



**PLAN**

SCALE: 1" = 20'



**PROFILE**

SCALE IN FEET

**LEGEND**

✕ ✕ ✕ - LINE TO BE ABANDONED / REMOVED

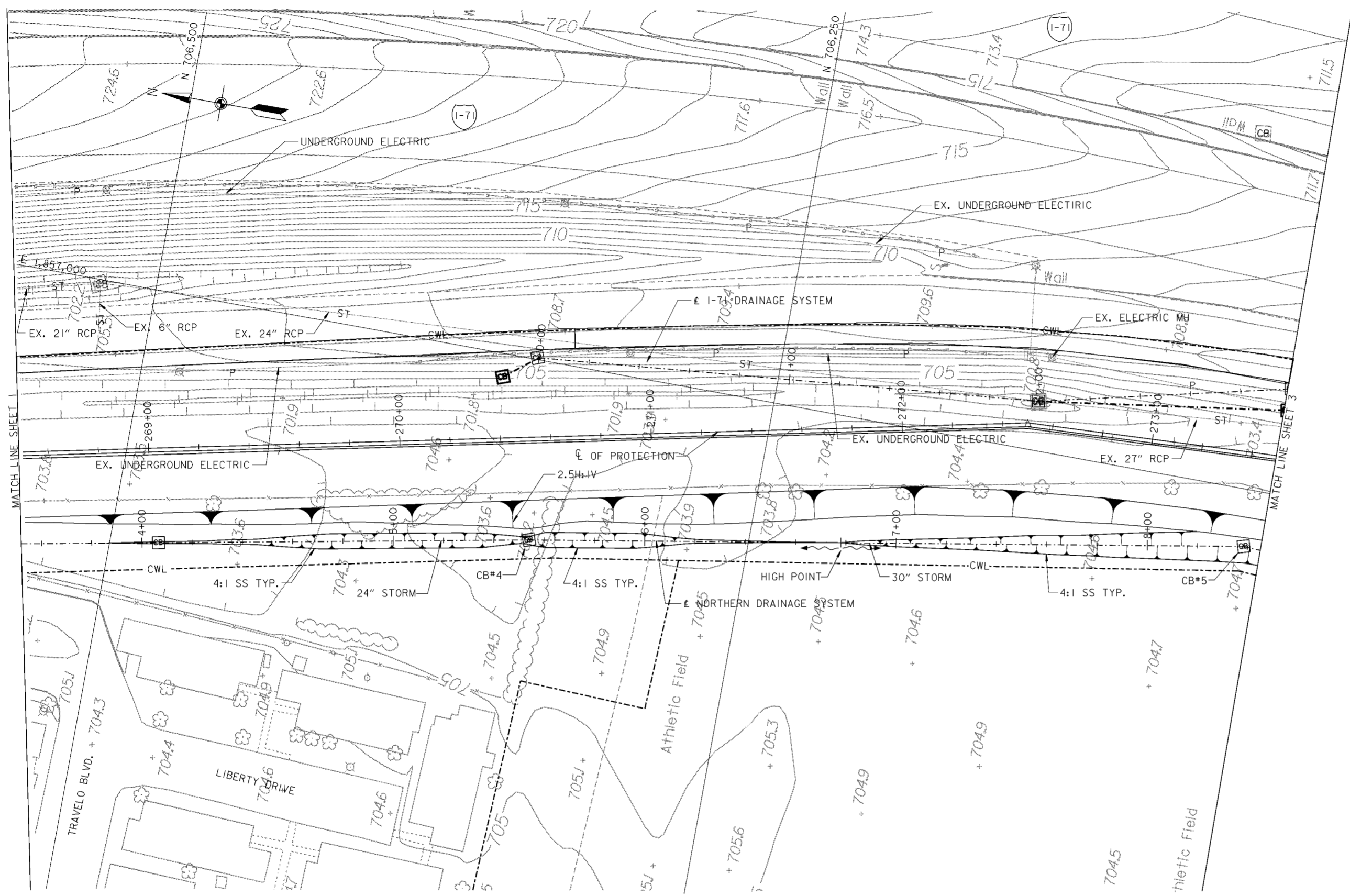
**NOTES**

- FOR PROFILE OF CATCH BASIN NO.2A TO CURB INLET NO.2A. SEE DRAWING NO.15.1/9.
- FOR CATCH BASIN DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S133 AND AA-S139.
- FOR CURB INLET DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S125 AND AA-S128. CURB AND GUTTER INLET SHALL BE INSTALLED 0.2' BELOW EXISTING PAVEMENT ELEVATION WITH REPLACEMENT PAVEMENT SLOPED FROM EXISTING PAVEMENT TO DRAIN.
- FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
- THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS OTHERWISE NOTED.
- FOR TYPE I BEDDING SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S151 AND AA-S152.
- MH#3A IS TYPE "A". SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING, AA-S100.
- EXISTING 48" COMBINED SEWER TO BE ABANDONED BY OTHERS UNDER GREENLAWN AVENUE PLAN 1543 DR. E.
- EXISTING 48" COMBINED SEWER WAS ABANDONED BY FRA-62-12.56.
- DRAINAGE FEATURE VERTICAL CONTROL SHALL BE IN ACCORDANCE WITH CITY OF COLUMBUS CIP-063 PROJECT (GREENLAWN AVENUE ROADWAY REHABILITATION). VERTICAL CONTROL AND ELEVATIONS HAVE BEEN ADJUSTED TO NAVD 1929 AND SHALL BE INSTALLED PER THESE DRAWINGS.
- FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/ EASTING) SEE TABLE ON DRAWING NO.15.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH MOD. NO. P00008	9/18/01	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

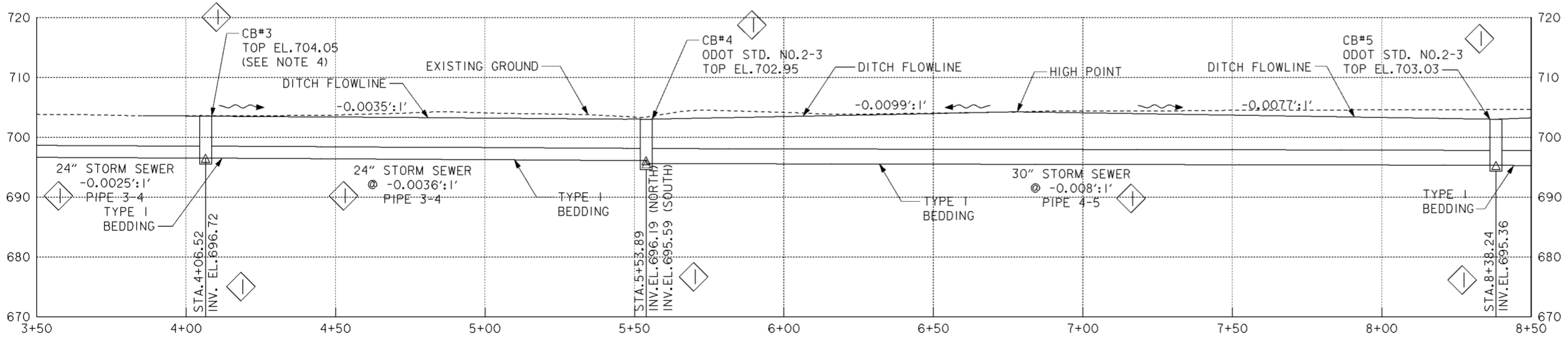
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Drawn by: <b>T. MULLIN</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Checked by: <b>P. CONROY</b>	<b>NORTHERN DRAINAGE SYSTEM (1 OF 8)</b>
Reviewed by:	Scale: <b>AS SHOWN</b>
Approved by:	Date: <b>OCTOBER 2000</b>
Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.1/1</b>
FILENAME: c01dpp01.dgn PIN TABLE: STD-b.tbl STD-d.tbl	Sheet 1 of 8



**PLAN**

SCALE: 1" = 20'



**PROFILE**

**NOTES**

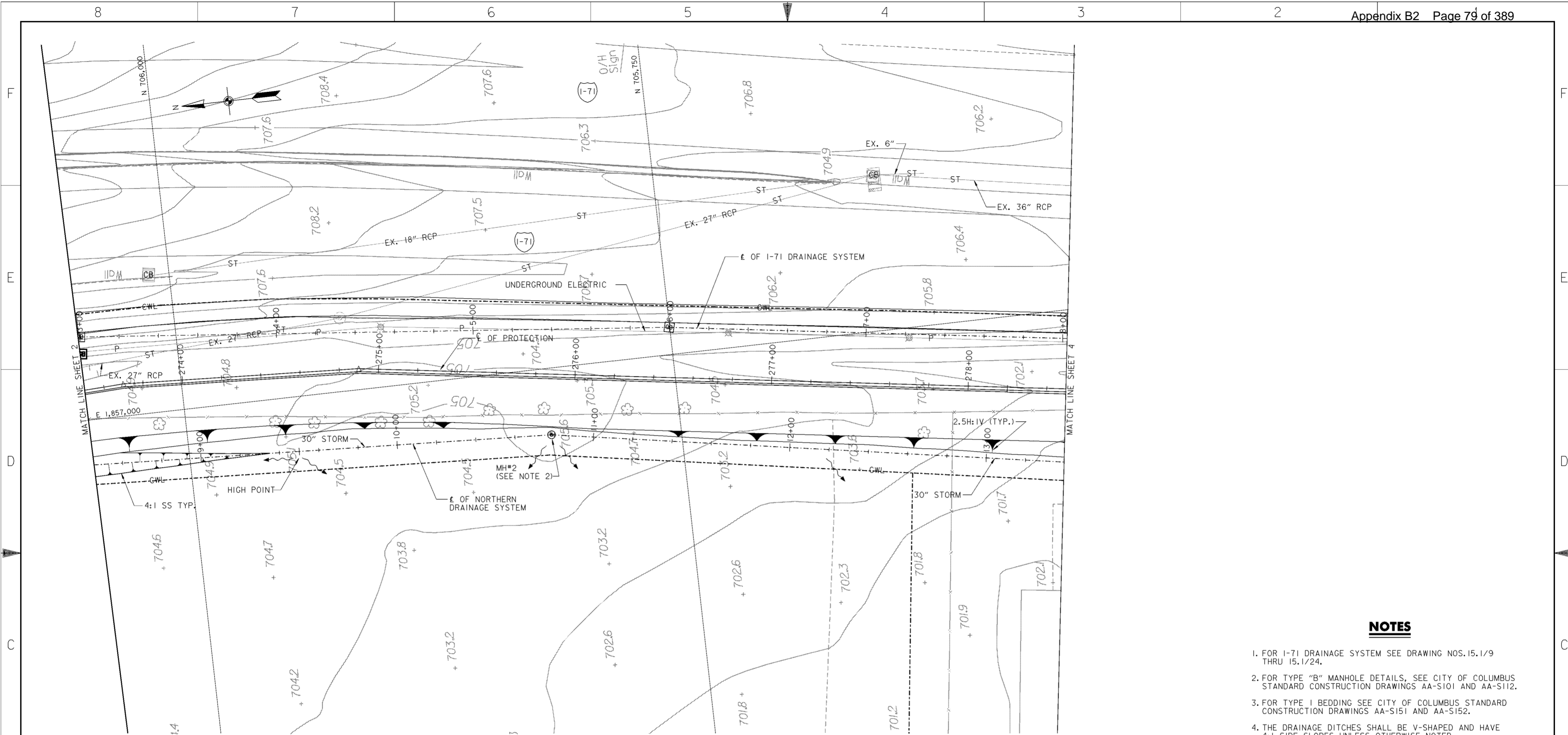
1. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
2. FOR TYPE I BEDDING SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S151 AND AA-S152.
3. THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS OTHERWISE NOTED. DO NOT CUT INTO THE TOE OF SLOPE OF THE FLOODWALL BERM TO CONSTRUCT THE DITCH.
4. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLIN</b> Checked by: <b>P. CONROY</b> Reviewed by: Approved by:	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>NORTHERN DRAINAGE SYSTEM (2 OF 8)</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.12</b>	FILENAME: c01dpp02.dgn PEN TABLE: STD-b.tbl STD-d.tbl
		Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 2 of 8

**WORK AS CONSTRUCTED**

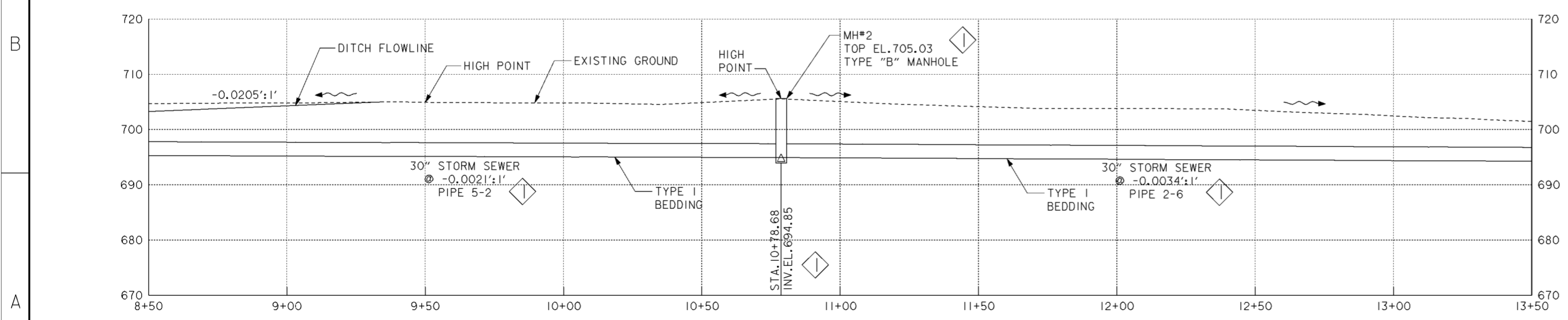


**PLAN**

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

**NOTES**

1. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
2. FOR TYPE "B" MANHOLE DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S101 AND AA-S112.
3. FOR TYPE I BEDDING SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S151 AND AA-S152.
4. THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS OTHERWISE NOTED.
5. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.



**PROFILE**

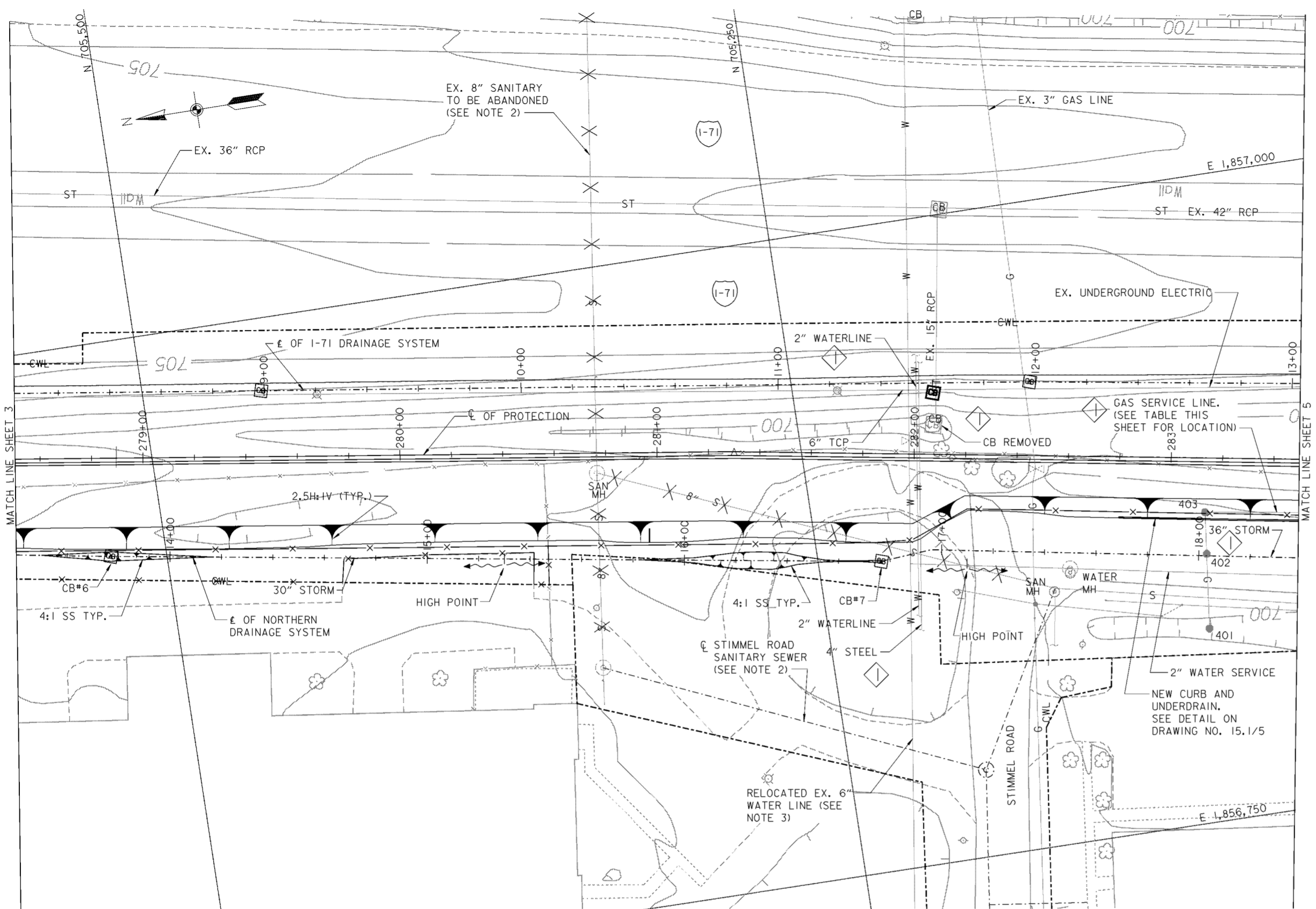
SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

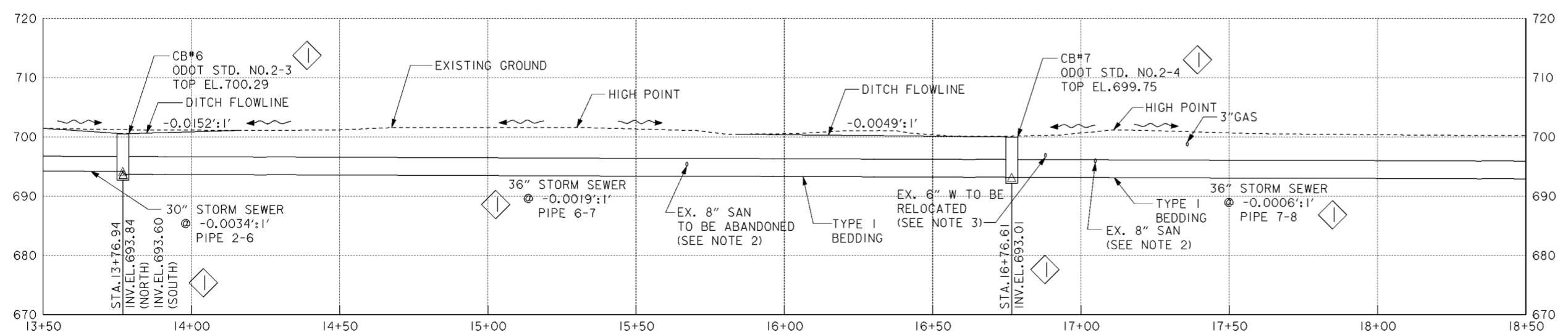
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>D. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
		Drawn by: <b>T. MULLINS</b>	
<b>NORTHERN DRAINAGE SYSTEM (3 OF 8)</b>		Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>15.13</b>	FILENAME: c01dpp03.dgn PEN TABLE: STD-b.tbl STD-d.tbl
Approved by:	Drawing Code: <b>016-PWC-13</b>	Sheet 3 of 8	

**WORK AS CONSTRUCTED**



**PLAN**

SCALE: 1" = 20'



**PROFILE**

SCALE IN FEET

**LEGEND**

X X X - LINE TO BE ABANDONED / REMOVED

GAS SERVICE LINE		
POINT NO.	NORTHING	EASTING
401	705,103.4826	1,856,824.7554
402	705,100.1952	1,856,853.6813
403	705,098.3158	1,856,869.7785
404	705,007.6875	1,856,855.5132
405	704,905.1264	1,856,837.5847
406	704,813.1034	1,856,821.5963
407	704,721.5434	1,856,804.9278
408	704,638.7457	1,856,790.3983
409	704,538.5120	1,856,775.1888
410	704,444.6229	1,856,759.7201
411	704,430.5536	1,856,755.9700
412	704,421.0832	1,856,749.0741
413	704,406.9509	1,856,741.6739
414	704,404.2769	1,856,725.4855

**NOTES**

- FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
- FOR STIMMEL ROAD SANITARY SEWER SEE DRAWING NOS. 15.2/1 AND 15.2/2.
- FOR STIMMEL ROAD WATER LINE RELOCATION SEE DRAWING NO. 15.5/2.
- FOR TYPE I BEDDING SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S151 AND AA-S152.
- THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS OTHERWISE NOTED.
- FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.

**BURGESS & NIPLE, LIMITED**  
COLUMBUS, OHIO

Designed by: **D. MOORE**

Drawn by: **T. MULLINS**

Checked by: **P. CONROY**

Reviewed by:

Approved by:

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

SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS, L.P.P.  
PHASE III B

**NORTHERN DRAINAGE**  
**SYSTEM (4 OF 8)**

Scale: **AS SHOWN**

Date: **OCTOBER 2000**

Drawing Code: **016-PWC-13**

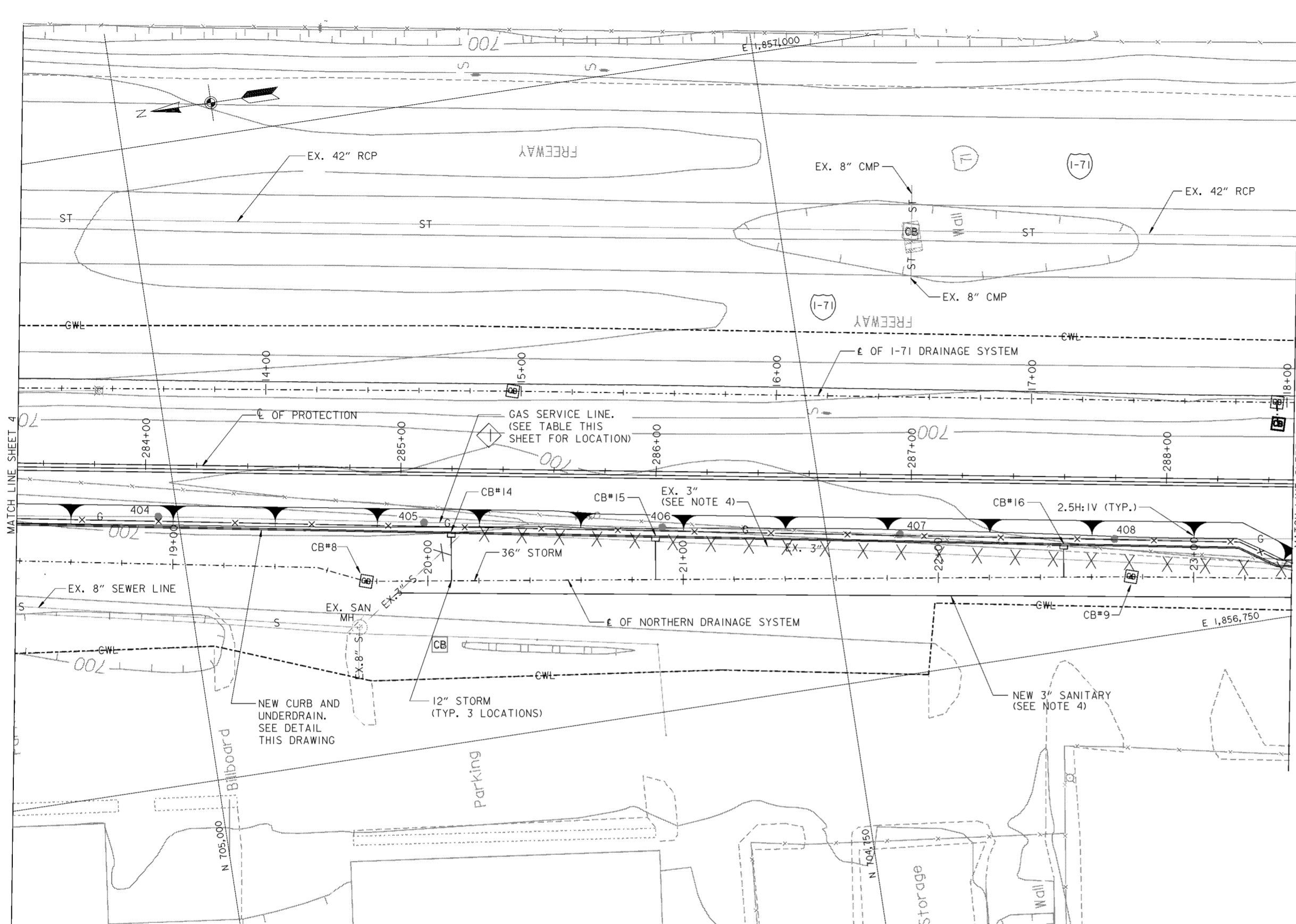
Sheet reference number: **15.1/4**

FILENAME: c01dpp04.dgn  
PIN TABLE: STD-b.tbl  
STD-d.tbl

Sheet 4 of 8

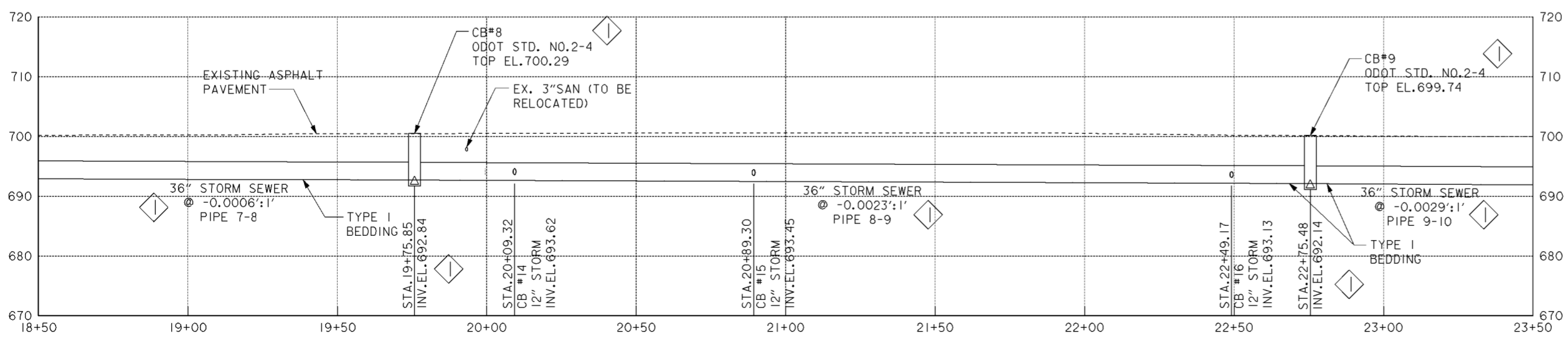
**WORK AS CONSTRUCTED**





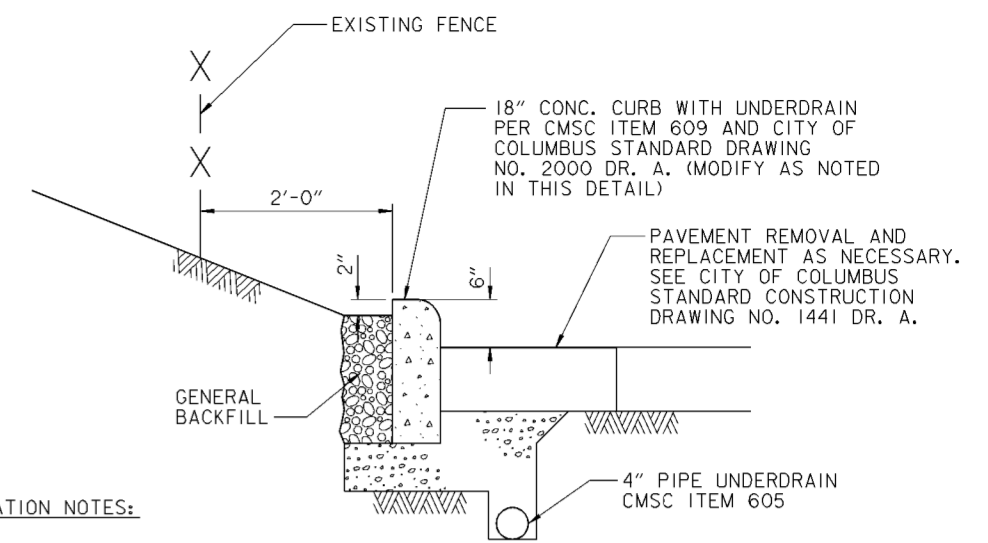
**PLAN**

SCALE: 1" = 20'



**PROFILE**

SCALE IN FEET



**TYPICAL CURB DETAIL**

SCALE: 1" = 1'

**CURB INSTALLATION NOTES:**

1. CONNECT UNDERDRAIN TO EACH NEW CATCH BASIN.
2. CAP UNDERDRAIN AT END OF NEW CURB.
3. FOR STORM SEWER, CATCH BASIN AND CURB PAVEMENT AND REPLACEMENT SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO. 1441 DR. A.
4. STORM SEWER SHALL BE IN ACCORDANCE WITH CMSC ITEM 706.

CATCH BASIN SCHEDULE					
CB#	TC ELEV.	OUTLET PIPE SIZE	INV. ELEV.	NORTHING	EASTING
14	699.50	12"	693.62	704895.14	1856831.77
15	699.35	12"	693.45	704816.29	1856818.17
16	699.20	12"	693.13	704658.70	1856791.00
17	699.35	36"	691.48	704412.72	1856739.92

- NOTES:**
1. CATCH BASINS #14 THRU #16 SHALL BE CURB INLETS IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DRAWING NO. AA-S125.
  2. CATCH BASIN #17 SHALL BE IN ACCORDANCE WITH ODOT STANDARD NO.2-4, INSTALLED WITHIN THE EXISTING STORM SEWER.
  3. FIELD VERIFY TOP OF CASTING ELEVATION TO ENSURE PROPER SITE DRAINAGE.

GAS SERVICE LINE		
POINT NO.	NORTHING	EASTING
401	705,103.4826	1,856,824.7554
402	705,100.1952	1,856,853.6813
403	705,098.3158	1,856,869.7785
404	705,007.6875	1,856,855.5132
405	704,905.1264	1,856,837.5847
406	704,813.1034	1,856,821.5963
407	704,721.5434	1,856,804.9278
408	704,638.7457	1,856,790.3983
409	704,538.5120	1,856,775.1888
410	704,444.6229	1,856,759.7201
411	704,430.5536	1,856,755.9700
412	704,421.0832	1,856,749.0741
413	704,406.9509	1,856,741.6739
414	704,404.2769	1,856,725.4855

**LEGEND**

X X X - LINE TO BE ABANDONED / REMOVED

**NOTES**

1. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS.15.1/9 THRU 15.1/24.
2. FOR TYPE I BEDDING SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S151 AND AA-S152.
3. THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS OTHERWISE NOTED.
4. FOR 3" SANITARY FORCE MAIN RELOCATION SEE DRAWING NO.15.2/12.
5. FOR STORM SEWER PAVEMENT REMOVAL AND REPLACEMENT DETAILS IN ACCESS ROAD SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO. 1441 DR A.
6. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO.15.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.

**BURGESS & NIPLE, LIMITED**  
COLUMBUS, OHIO

Designed by: **D.MOORE**  
Drawn by: **T.MULLINS**  
Checked by: **P.CONROY**  
Reviewed by: **AS SHOWN**  
Approved by:

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

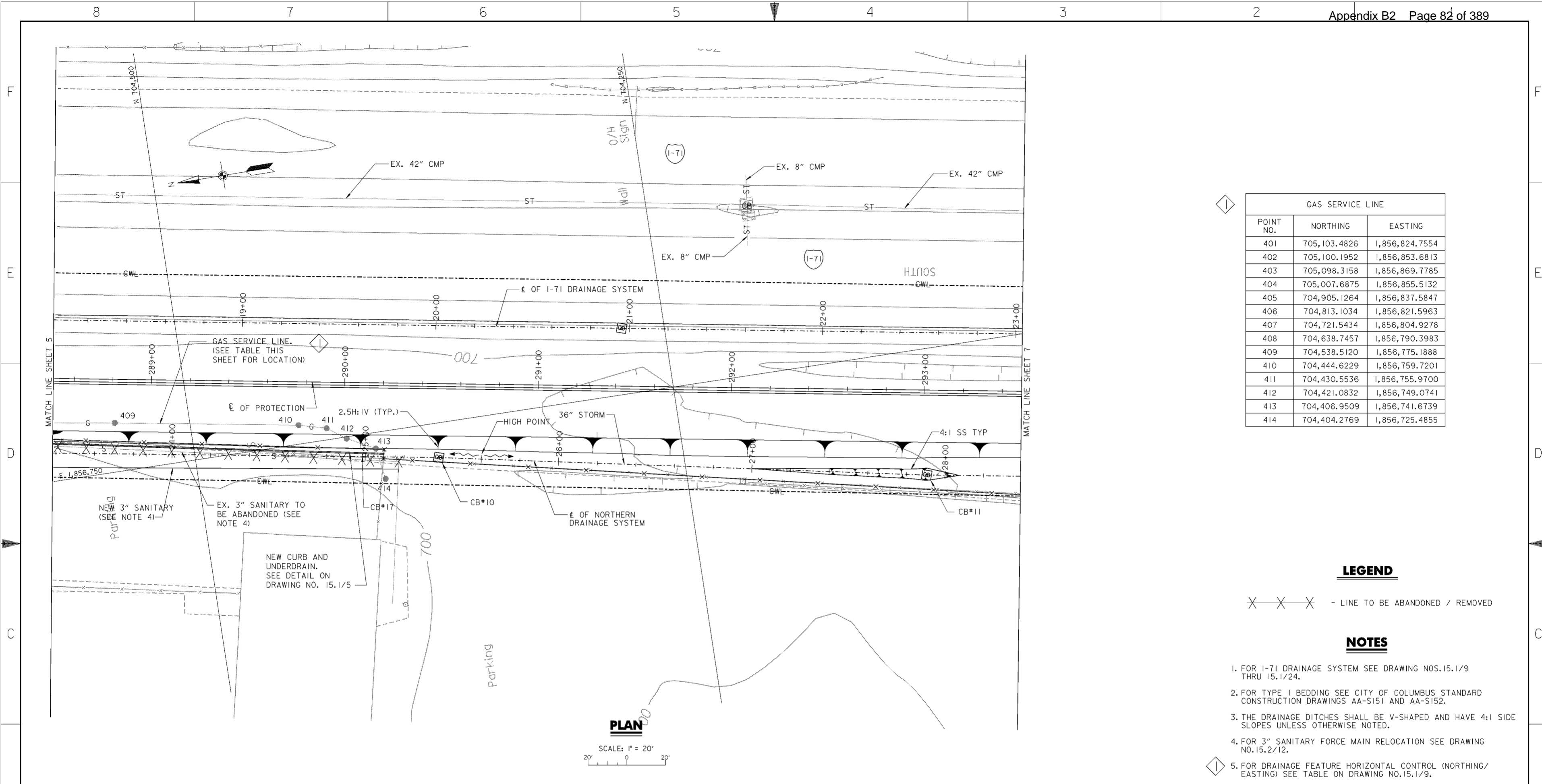
SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS, L.P.P.  
PHASE III B

**NORTHERN DRAINAGE**  
**SYSTEM (5 OF 8)**

Scale: **AS SHOWN**  
Date: **OCTOBER 2000**  
Drawing Code: **016-PWC-13**

Sheet reference number: **15.1/5**  
FILENAME: **c01dpp05.dgn**  
PIN TABLE: **STD-b.tbl**  
STD: **STD-g.tbl**

Sheet **5** of **8**



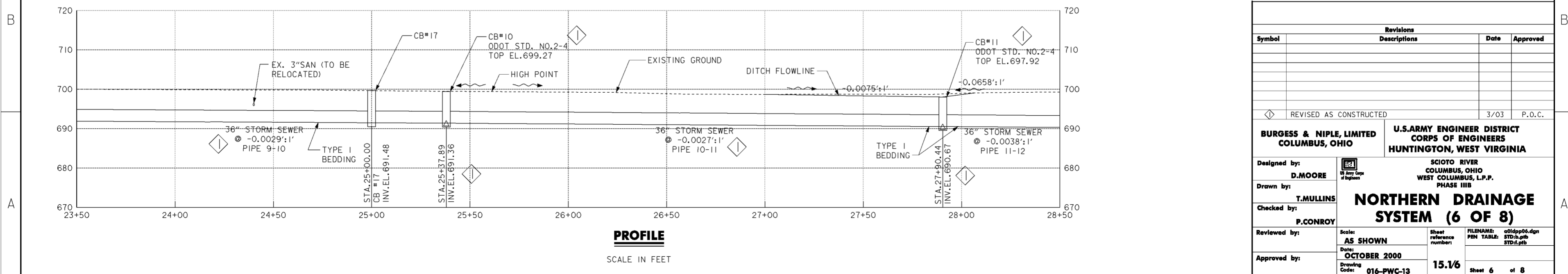
GAS SERVICE LINE		
POINT NO.	NORTHING	EASTING
401	705,103.4826	1,856,824.7554
402	705,100.1952	1,856,853.6813
403	705,098.3158	1,856,869.7785
404	705,007.6875	1,856,855.5132
405	704,905.1264	1,856,837.5847
406	704,813.1034	1,856,821.5963
407	704,721.5434	1,856,804.9278
408	704,638.7457	1,856,790.3983
409	704,538.5120	1,856,775.1888
410	704,444.6229	1,856,759.7201
411	704,430.5536	1,856,755.9700
412	704,421.0832	1,856,749.0741
413	704,406.9509	1,856,741.6739
414	704,404.2769	1,856,725.4855

**LEGEND**

X-X-X - LINE TO BE ABANDONED / REMOVED

**NOTES**

- FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
- FOR TYPE I BEDDING SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S151 AND AA-S152.
- THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS OTHERWISE NOTED.
- FOR 3" SANITARY FORCE MAIN RELOCATION SEE DRAWING NO. 15.2/12.
- FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.

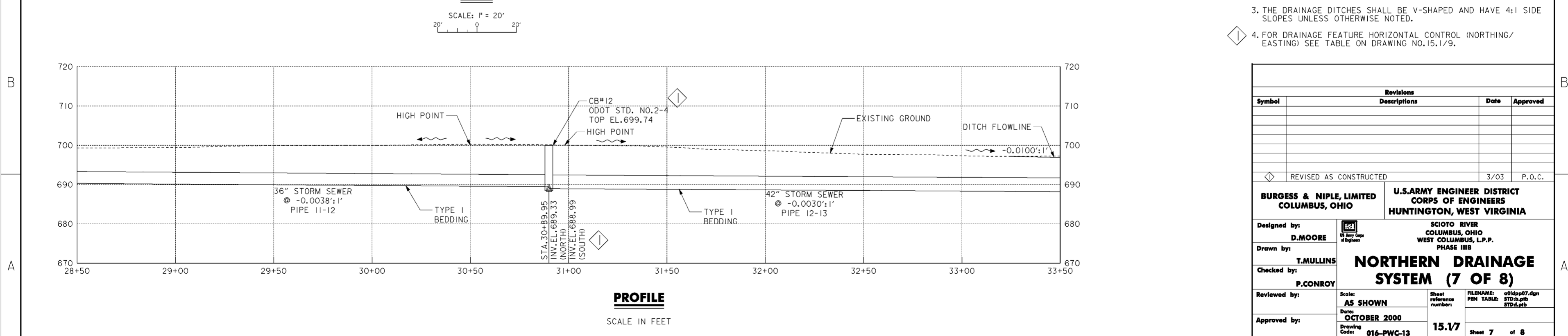
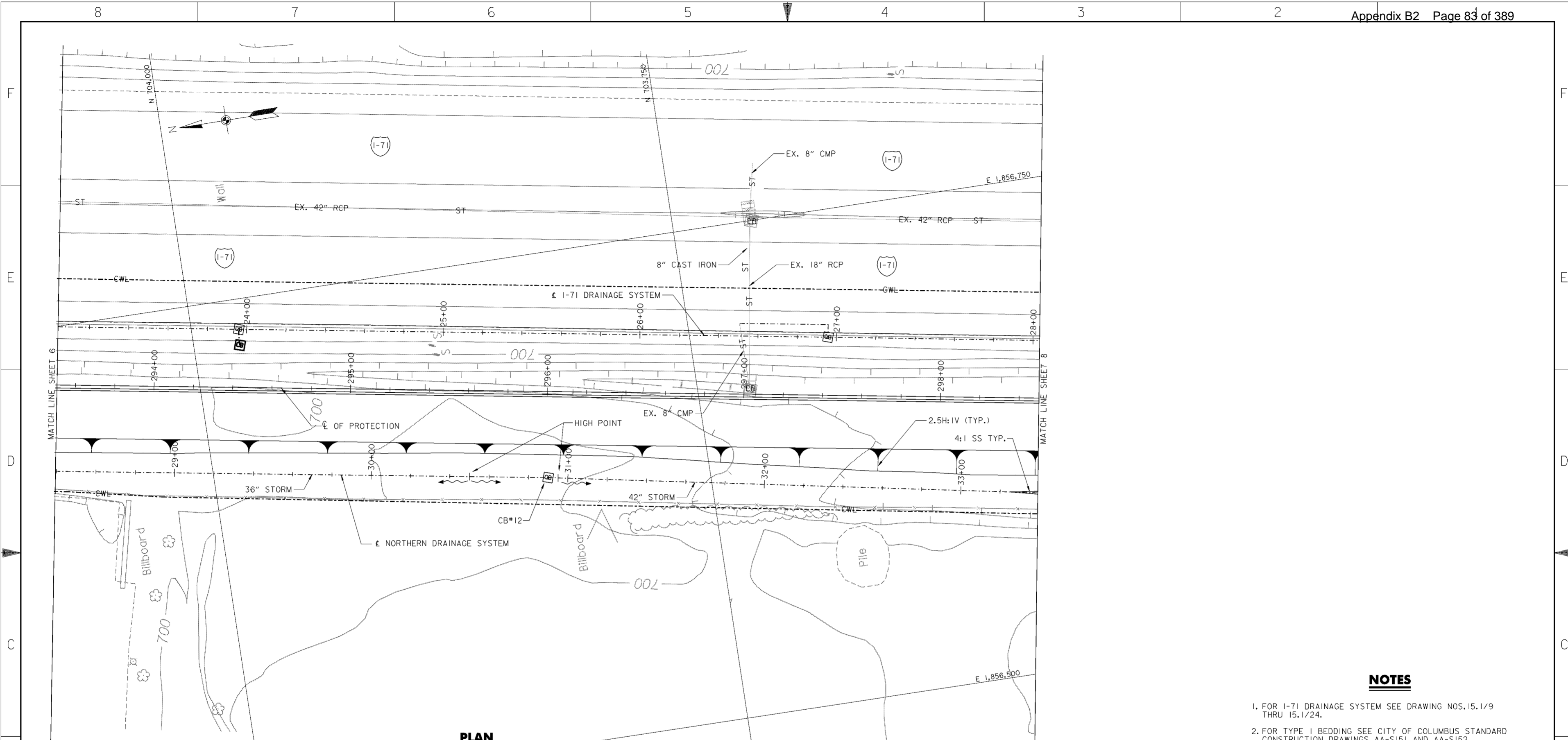


Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.

**BURGESS & NIPL, LIMITED**  
 COLUMBUS, OHIO  
 Designed by: **D. MOORE**  
 Drawn by: **T. MULLINS**  
 Checked by: **P. CONROY**  
 Reviewed by: **AS SHOWN**  
 Approved by: **OCTOBER 2000**  
 Drawing Code: **016-PWC-13**

**U.S. ARMY ENGINEER DISTRICT**  
 CORPS OF ENGINEERS  
 HUNTINGTON, WEST VIRGINIA  
 SCIO TO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS, L.P.P.  
 PHASE III B  
**NORTHERN DRAINAGE SYSTEM (6 OF 8)**  
 Sheet reference number: **15.1/6**  
 FILENAME: c01dpp06.dgn  
 PIN TABLE: STD-b.tbl  
 STD-d.tbl  
 Sheet 6 of 8

**WORK AS CONSTRUCTED**

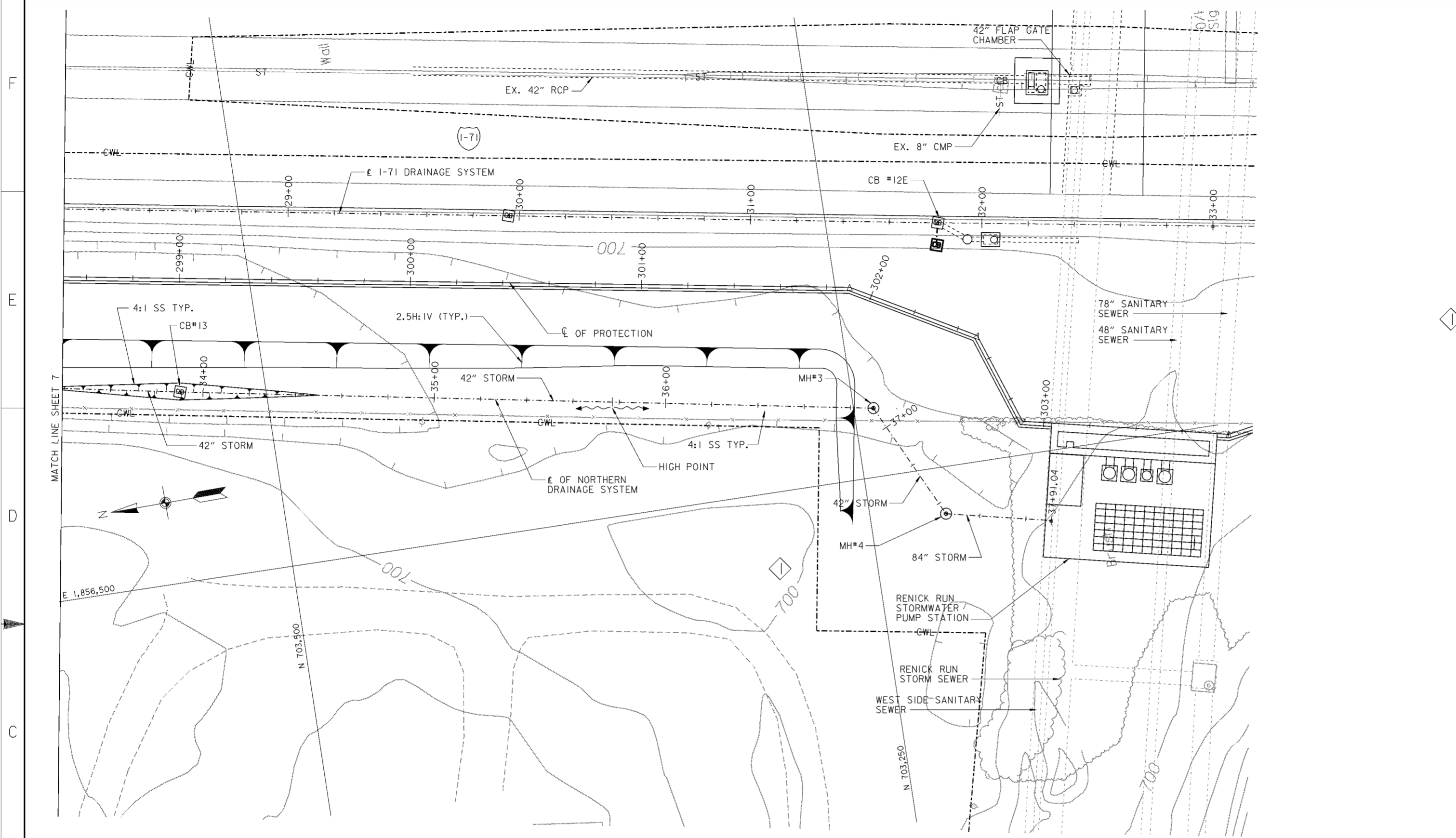


- NOTES**
- FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
  - FOR TYPE I BEDDING SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S151 AND AA-S152.
  - THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS OTHERWISE NOTED.
  - FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by: Approved by:	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>NORTHERN DRAINAGE SYSTEM (7 OF 8)</b>	FILENAME: c01dpp07.dgn PEN TABLE: STD-b.tbl STD-d.tbl
		Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>

**WORK AS CONSTRUCTED**



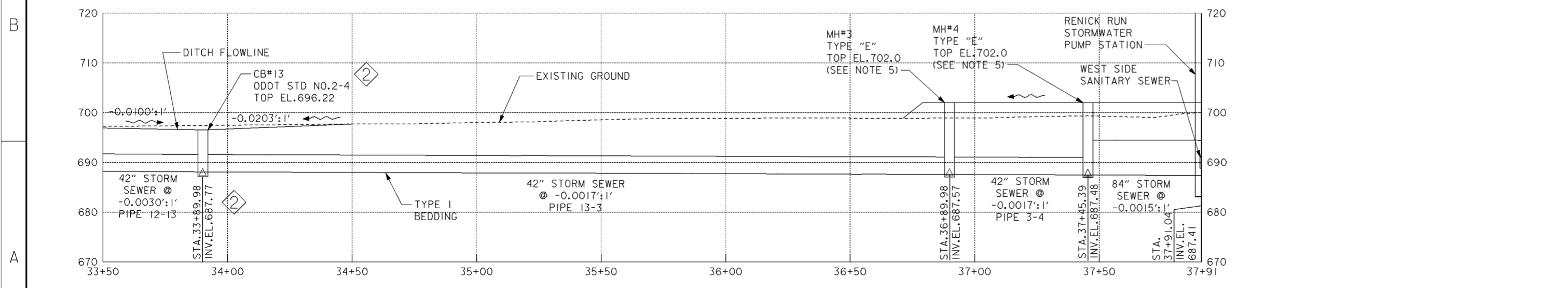
MANHOLE	EASTING	NORTHING
MH#3	1,856,529.66	703,241.49
MH#4	1,856,479.78	703,217.34

**PLAN**

SCALE: 1" = 20'

**NOTES**

- FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
- FOR TYPE I BEDDING SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S151 AND AA-S152.
- THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS OTHERWISE NOTED.
- FOR 42" FLAP GATE CHAMBER DETAILS SEE DRAWING NO. 20.3/1.
- FOR TYPE "E" MANHOLE DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NO. AA-S104. TOP GRATE FOR MANHOLE #3 SHALL HAVE OPENINGS FOR DRAINAGE. MANHOLE #4 SHALL HAVE A SOLID COVER.
- FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.



**PROFILE**

SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.
◊	REV. BY CONTRACT MODIFICATION LETTER MCO02	6/01	P.O.C.

**BURGESS & NIPLE, LIMITED**  
COLUMBUS, OHIO

Designed by: **D. MOORE**

Drawn by: **T. MULLINS**

Checked by: **P. CONROY**

Reviewed by:

Approved by:

**U.S. ARMY ENGINEER DISTRICT**  
CORPS OF ENGINEERS  
WEST COLUMBUS, OHIO  
PHASE III

**SCIOTO RIVER**  
COLUMBUS, OHIO  
WEST COLUMBUS, L.P.P.  
PHASE III

**NORTHERN DRAINAGE**  
**SYSTEM (8 OF 8)**

Scale: **AS SHOWN**

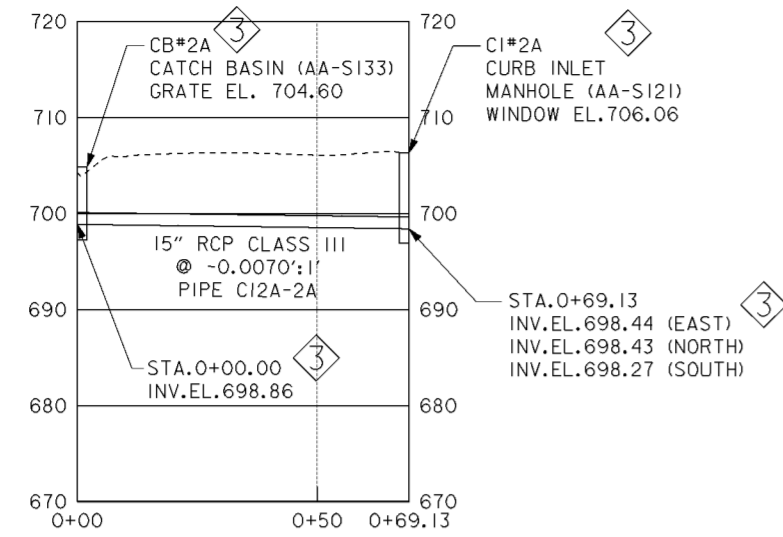
Date: **OCTOBER 2000**

Drawing Code: **016-PWC-13**

Sheet reference number: **15.1/8**

FILENAME: c01dpp08.dgn  
PIN TABLE: STD-b.tbl  
STD-d.tbl

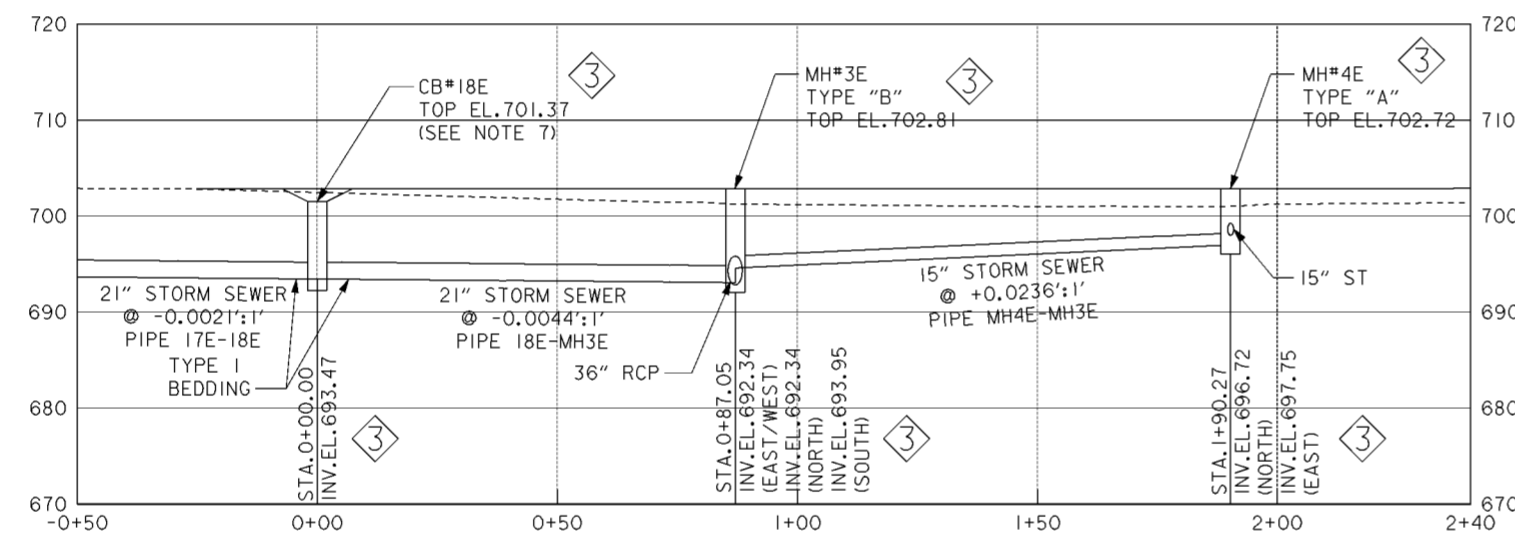
Sheet **8** of **8**



**NORTHERN DRAINAGE PROFILE FROM CB#2A TO CI#2A**

NORTHERN DRAINAGE SYSTEM		
DRAINAGE FEATURE	NORTHING	EASTING
CB#1A	707,079.6057	1,856,724.1393
CI#2A	706,875.9581	1,856,822.6452
CB#2A	706,875.9581	1,856,822.6452
CB#3A	706,783.6162	1,856,864.6627
CB#3	706,481.2947	1,856,903.0617
CB#4	706,336.4831	1,856,928.5609
CB#5	706,056.2998	1,856,977.6585
MH#2	705,815.9479	1,856,968.0076
CB#6	705,521.5430	1,856,917.4497
CB#7	705,225.7929	1,856,870.0007
CB#8	704,930.3190	1,856,820.1850
CB#9	704,634.3592	1,856,774.2996
CB#10	704,375.4402	1,856,732.4716
CB#11	704,127.3569	1,856,684.7887
CB#12	703,832.435	1,856,636.444
CB#13	703,536.34	1,856,582.471
MH#3	703,241.4900	1,856,529.6600
MH#4	703,217.3400	1,856,479.7800

I-71 DRAINAGE SYSTEM		
DRAINAGE FEATURE	NORTHING	EASTING
CB#1E	706,344.2313	1,857,001.9136
MH#1E	706,146.0518	1,857,019.5914
CB#2E	706,049.3153	1,857,041.5872
CB#3E	705,749.5963	1,857,014.7411
CB#4E	705,454.2290	1,856,971.9180
CB#5E	705,154.0949	1,856,928.7748
CB#6E	704,862.6282	1,856,883.6041
CB#7E	704,567.5987	1,856,832.4616
CB#8E	704,271.2493	1,856,783.0458
CB#9E	703,975.8660	1,856,735.4930
CB#10E	703,680.2632	1,856,686.0810
CB#11E	703,384.8105	1,856,634.8194
CB#12E	703,202.7521	1,856,605.6838
CB#13E	702,909.3154	1,856,557.2866
MH#2E	702,783.1616	1,856,523.6545
CB#14E	702,616.5727	1,856,506.9378
CB#15E	702,320.6679	1,856,456.7335
CB#16E	702,024.7949	1,856,407.5950
CB#17E	701,730.3333	1,856,358.4726
CB#18E	701,435.2508	1,856,309.6981
MH#3E	701,350.4728	1,856,284.1394
MH#4E	701,248.6801	1,856,269.3478
CB#19E	701,139.4342	1,856,259.8555
CB#20E	700,845.6496	1,856,211.3222
CB#21E	700,551.5300	1,856,162.0309
CB#22E	700,257.0259	1,856,112.8072
CB#23E	699,966.8874	1,856,045.2740
MH#5E	699,681.5757	1,855,978.8549
CB#24E	699,637.4373	1,855,964.9245
CB#25E	699,404.2024	1,855,887.6884



**I-71 DRAINAGE PROFILE FROM CB#18E TO MH#4E**

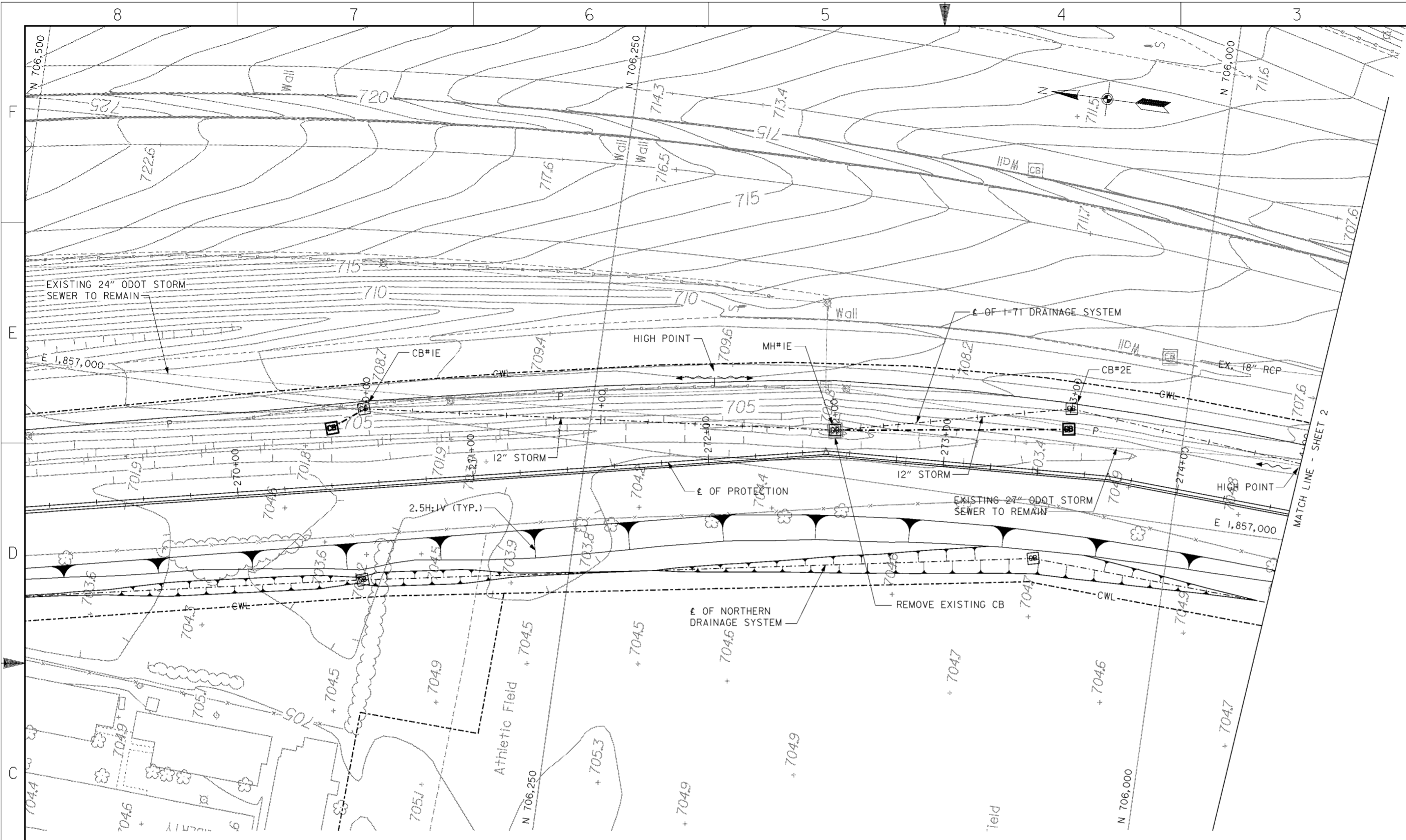
**NOTES**

- FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/8.
- FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/10 THRU 15.1/24.
- FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S133 AND AA-S139.
- FOR TYPE "B" MANHOLE SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S101 AND AA-S112.
- FOR TYPE I BEDDING SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S151 AND AA-S152.
- FOR TYPE "A" MANHOLE SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S100 AND AA-S112.
- FOR CB#18E SEE ODOT STANDARD NO.2-3.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH MOD. NO. P00008	9/18/01	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

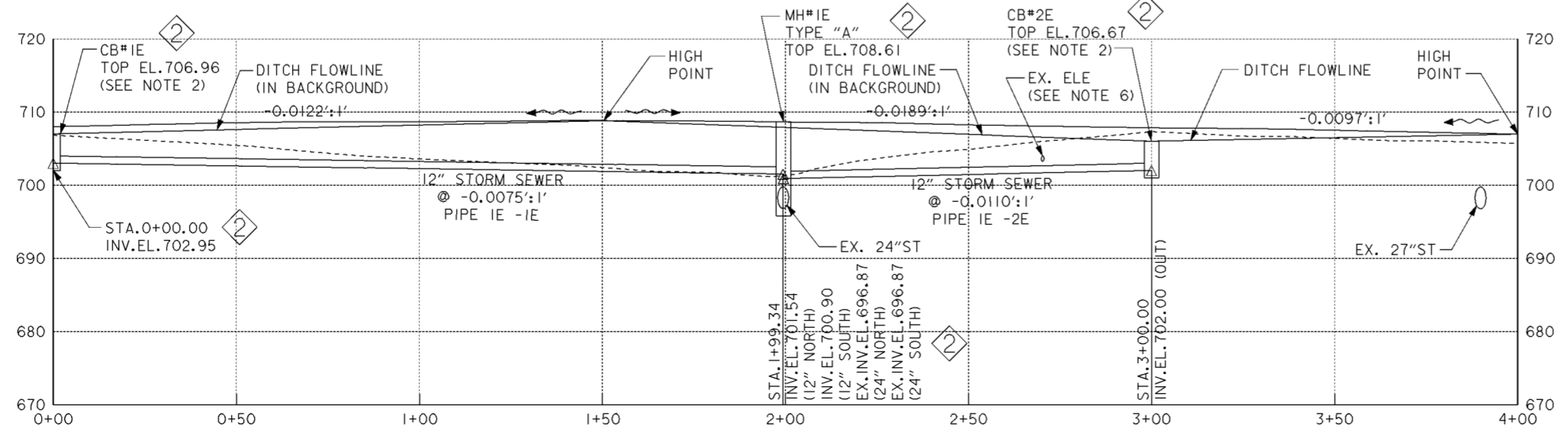
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>D. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>MISC. DRAINAGE PROFILES</b>	
Drawn by: <b>T. MULLINS</b>		
Checked by: <b>P. CONROY</b>		
Reviewed by:		
Approved by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.19</b> FILENAME: <b>o4drpr01.dgn</b> PIN TABLE: Sheet <b>1</b> of <b>1</b>



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

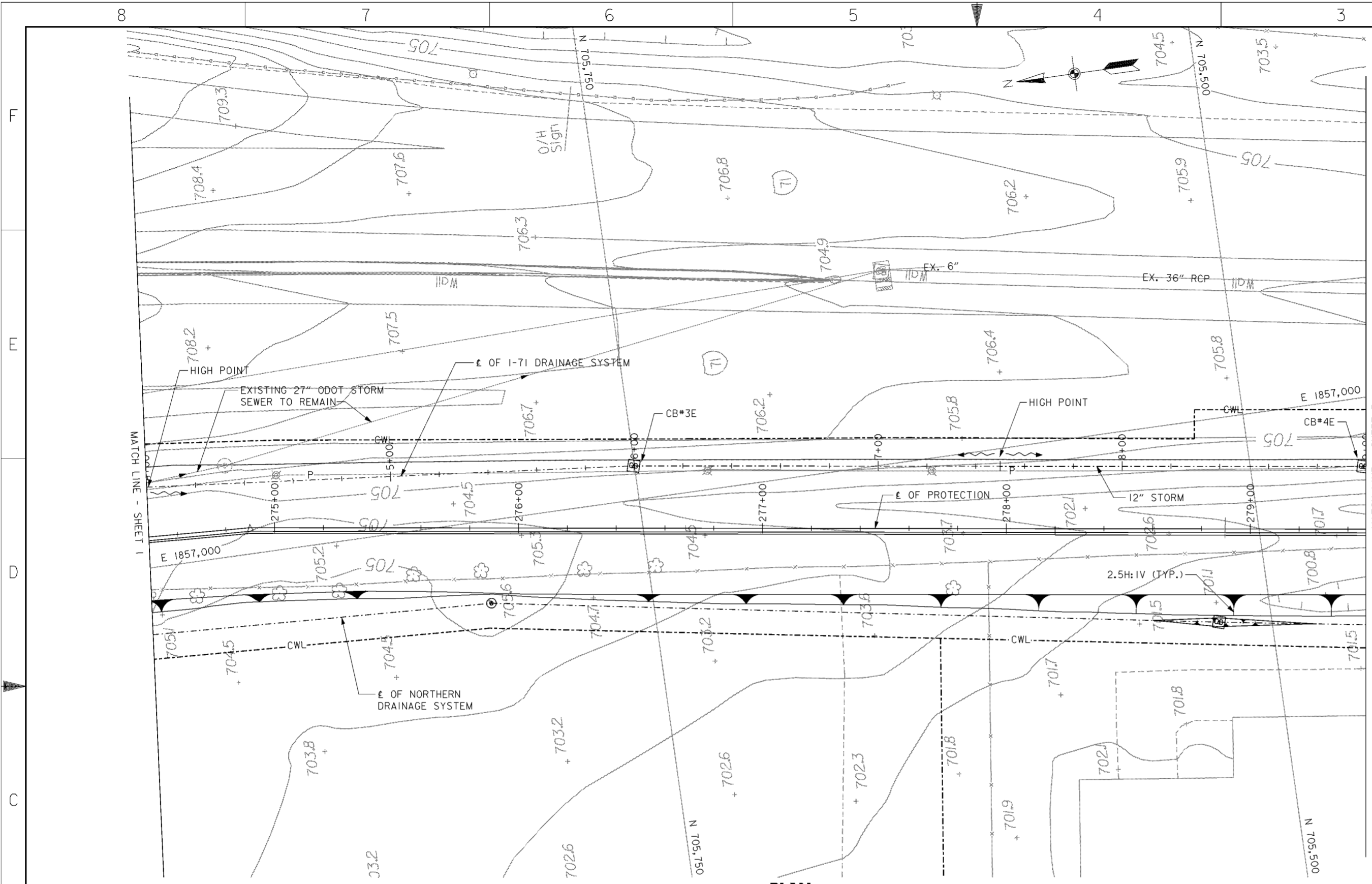
- NOTES**
- FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
  - FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
  - PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
  - THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
  - FOR MANHOLE DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NOS. AA-S100 AND AA-S112.
  - PROTECT ELECTRICAL SERVICE WHILE INSTALLING 12" STORM SEWER.
  - FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.



**PROFILE**

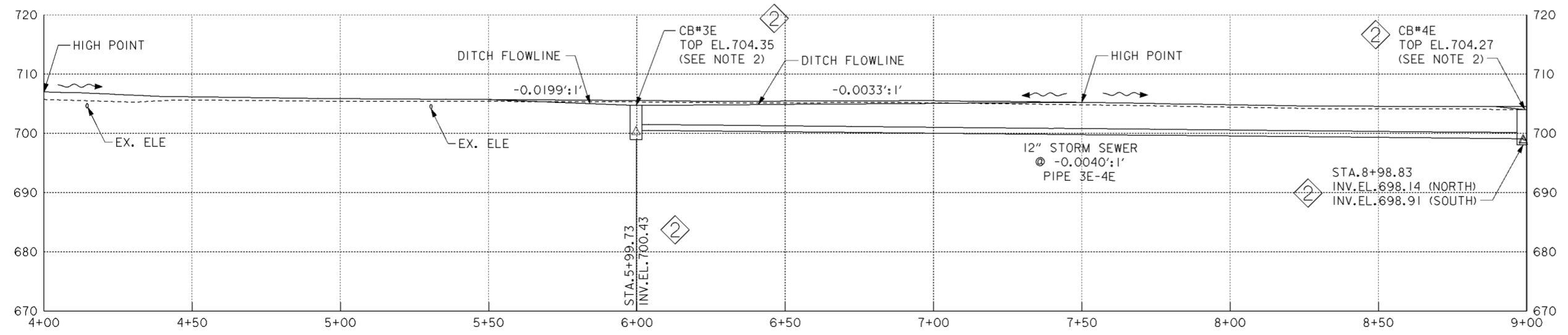
Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by: <b>AS SHOWN</b> Approved by:	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III <b>I-71 DRAINAGE SYSTEM (1 OF 15)</b> Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III <b>I-71 DRAINAGE SYSTEM (1 OF 15)</b> Sheet reference number: <b>15.1/10</b> FILENAME: <b>a0dpp01.dgn</b> PIN TABLE: Sheet <b>1</b> of <b>15</b>



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

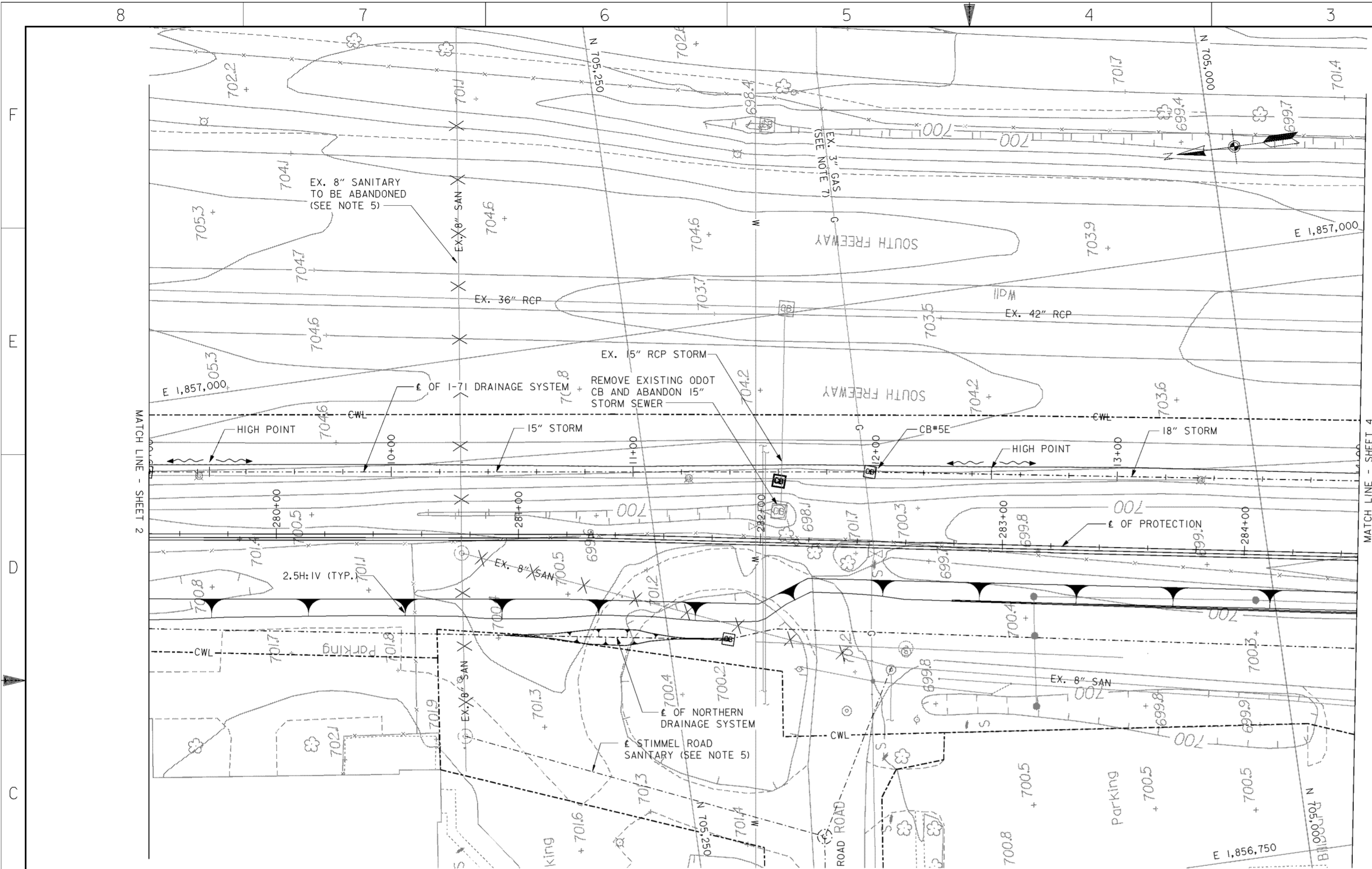
- NOTES**
- FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
  - FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
  - PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
  - THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
  - FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.



**PROFILE**

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
		<b>I-71 DRAINAGE SYSTEM (2 OF 15)</b>		
Designed by: <b>D. MOORE</b>		Drawn by: <b>T. MULLINS</b>	FILENAME: a04dpp02.dgn	
Checked by: <b>P. CONROY</b>				
Reviewed by:		Scale: <b>AS SHOWN</b>		Sheet reference number: <b>15.1/11</b>
Approved by:		Date: <b>OCTOBER 2000</b>		Drawing Code: <b>016-PWC-13</b>



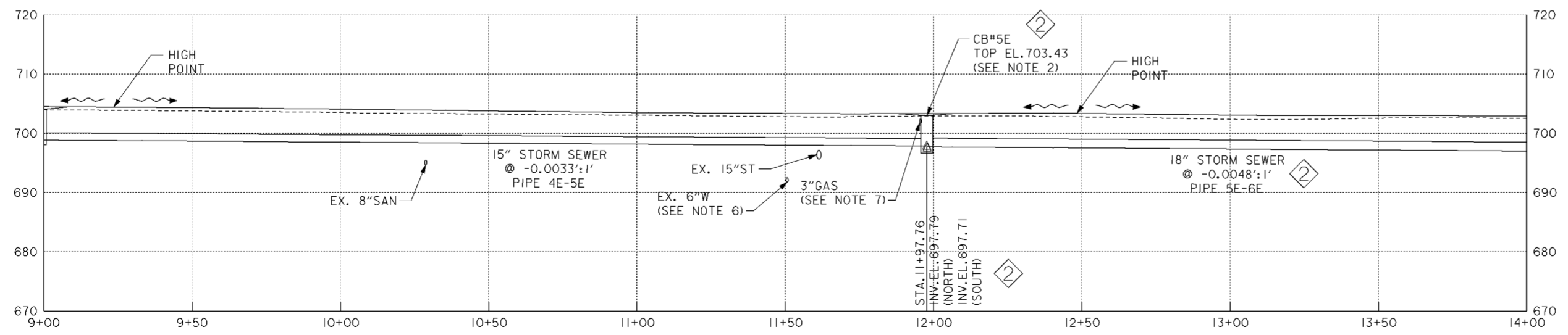
**PLAN**  
SCALE: 1" = 20'

**LEGEND**

✕ ✕ ✕ - LINE TO BE ABANDONED

**NOTES**

1. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
2. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
3. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
4. THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
5. FOR STIMMEL ROAD SANITARY SEWER SEE DRAWING NOS. 15.2/1 AND 15.2/2.
6. FOR 6" WATERLINE RELOCATION SEE DRAWING NO. 15.5/2.
7. 3" GAS LINE TO BE RELOCATED BY GAS COMPANY.
8. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.



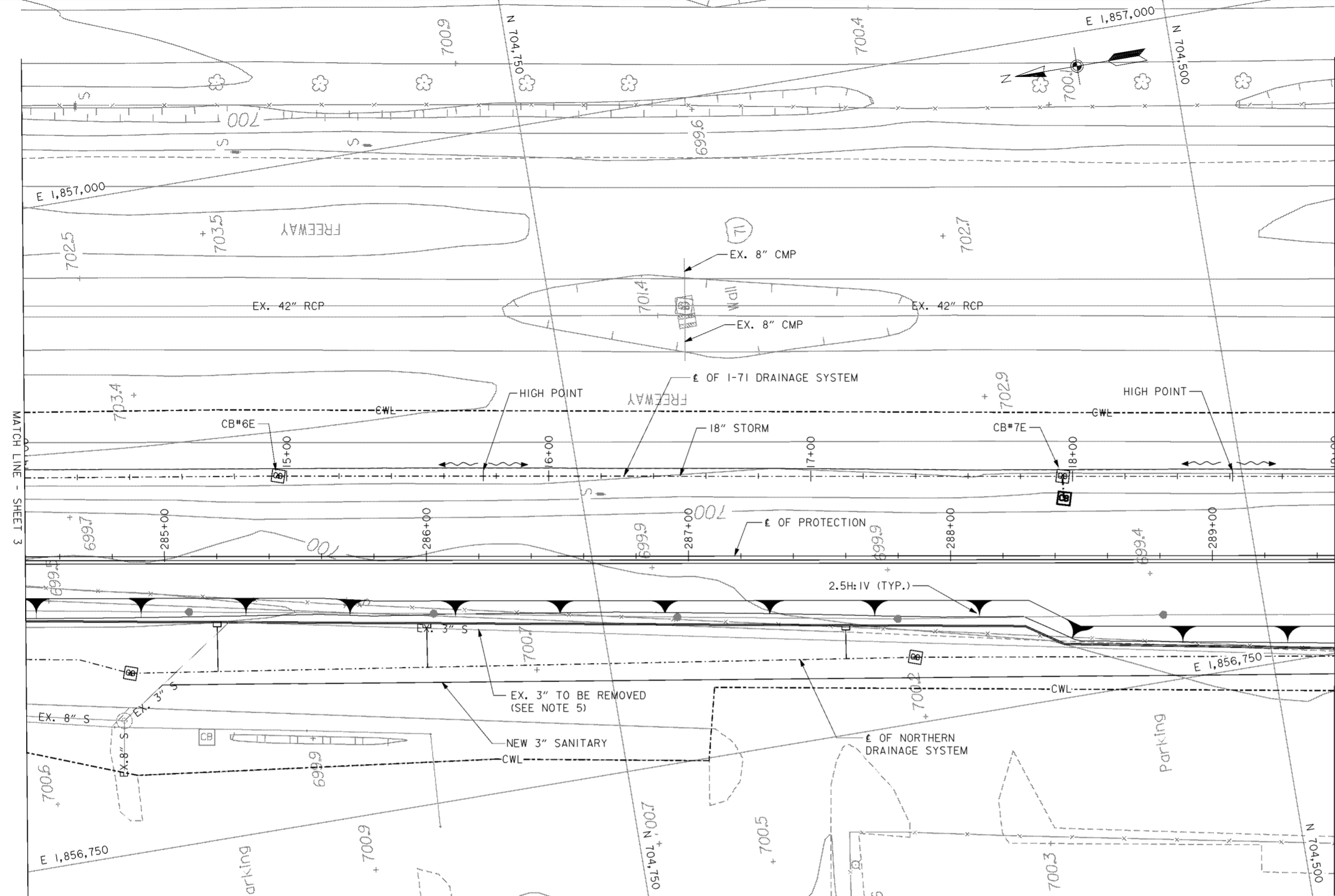
**PROFILE**

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

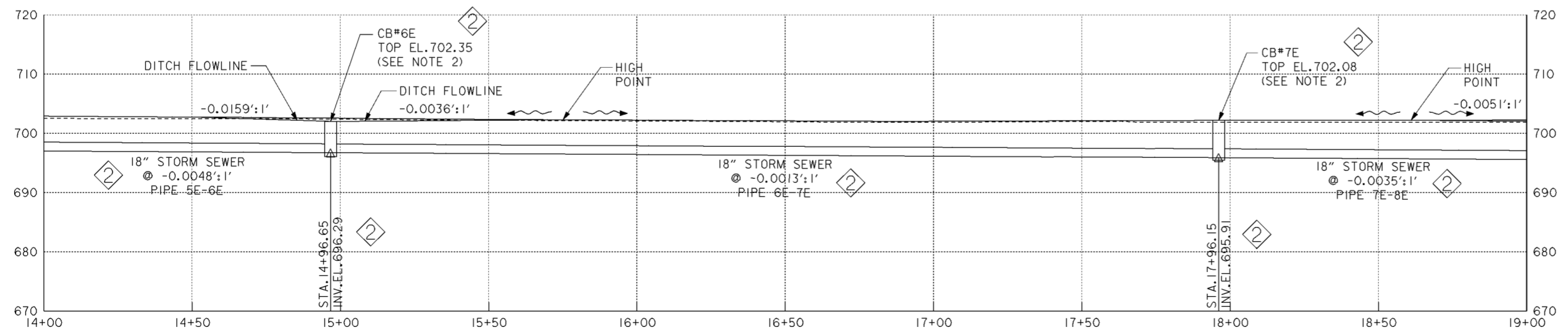
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>D. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
		Drawn by: <b>T. MULLINS</b>	
<b>I-71 DRAINAGE SYSTEM (3 OF 15)</b>		Checked by: <b>P. CONROY</b>	FILENAME: a0dpp03.dgn
Reviewed by: AS SHOWN	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>15.1/2</b>	Drawing Code: <b>016-PWC-13</b>
Approved by:	Sheet 3 of 15		





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



**PROFILE**

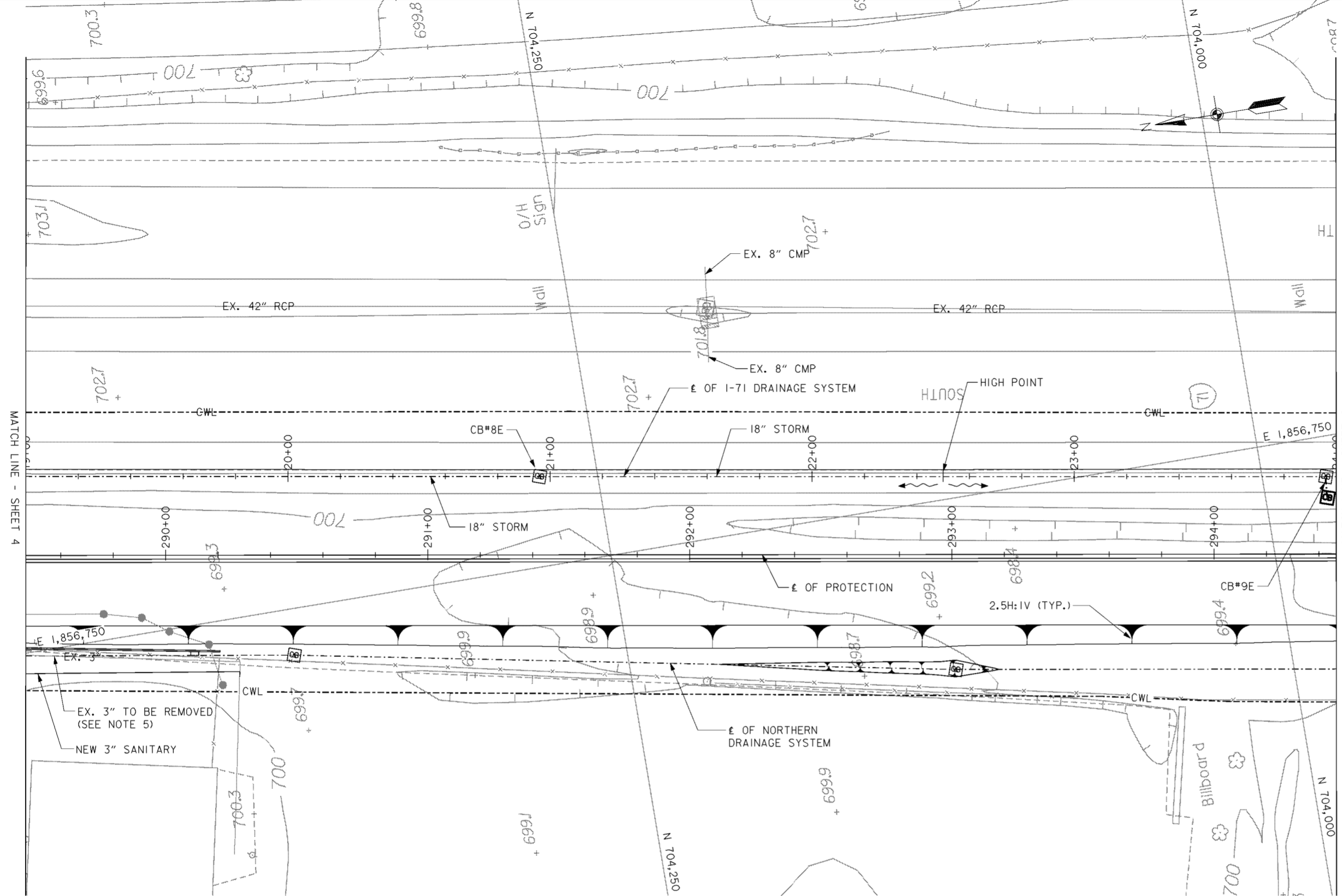
**NOTES**

1. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
2. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
3. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
4. THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
5. FOR 3" SANITARY FORCE MAIN RELOCATION SEE DRAWING NO. 15.2/12.
6. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.

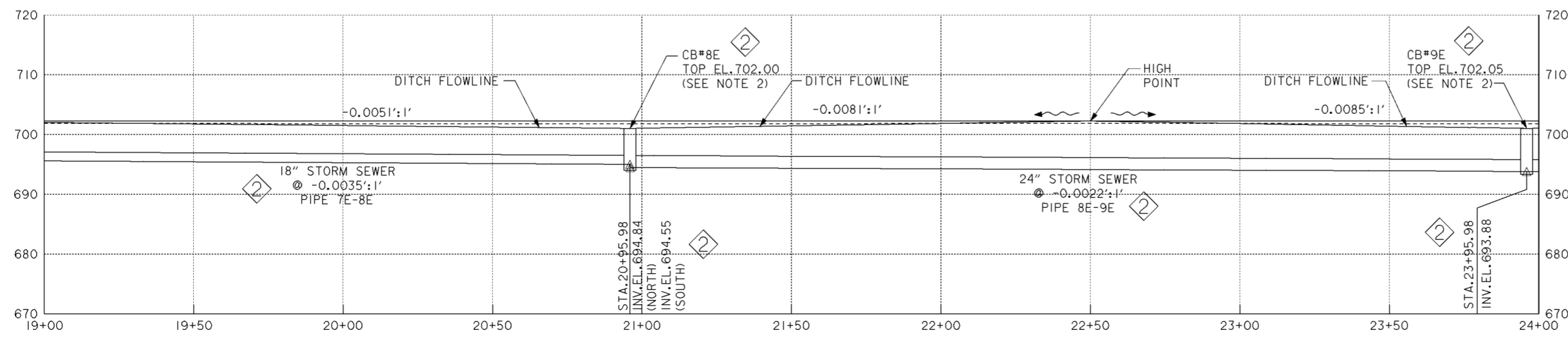
Revisions			
Symbol	Descriptions	Date	Approved
⬡	REVISED AS CONSTRUCTED	3/03	P.O.C.
⬢	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>I-71 DRAINAGE SYSTEM (4 OF 15)</b>	
Designed by: <b>D. MOORE</b>		Drawn by: <b>T. MULLINS</b>	FILENAME: a0dpp04.dgn Sheet reference number: 15.1/13 Sheet 4 of 15
Checked by: <b>P. CONROY</b>			
Reviewed by:		Scale: <b>AS SHOWN</b>	
Approved by:		Date: <b>OCTOBER 2000</b>	
Drawing Code: <b>016-PWC-13</b>			



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



**PROFILE**

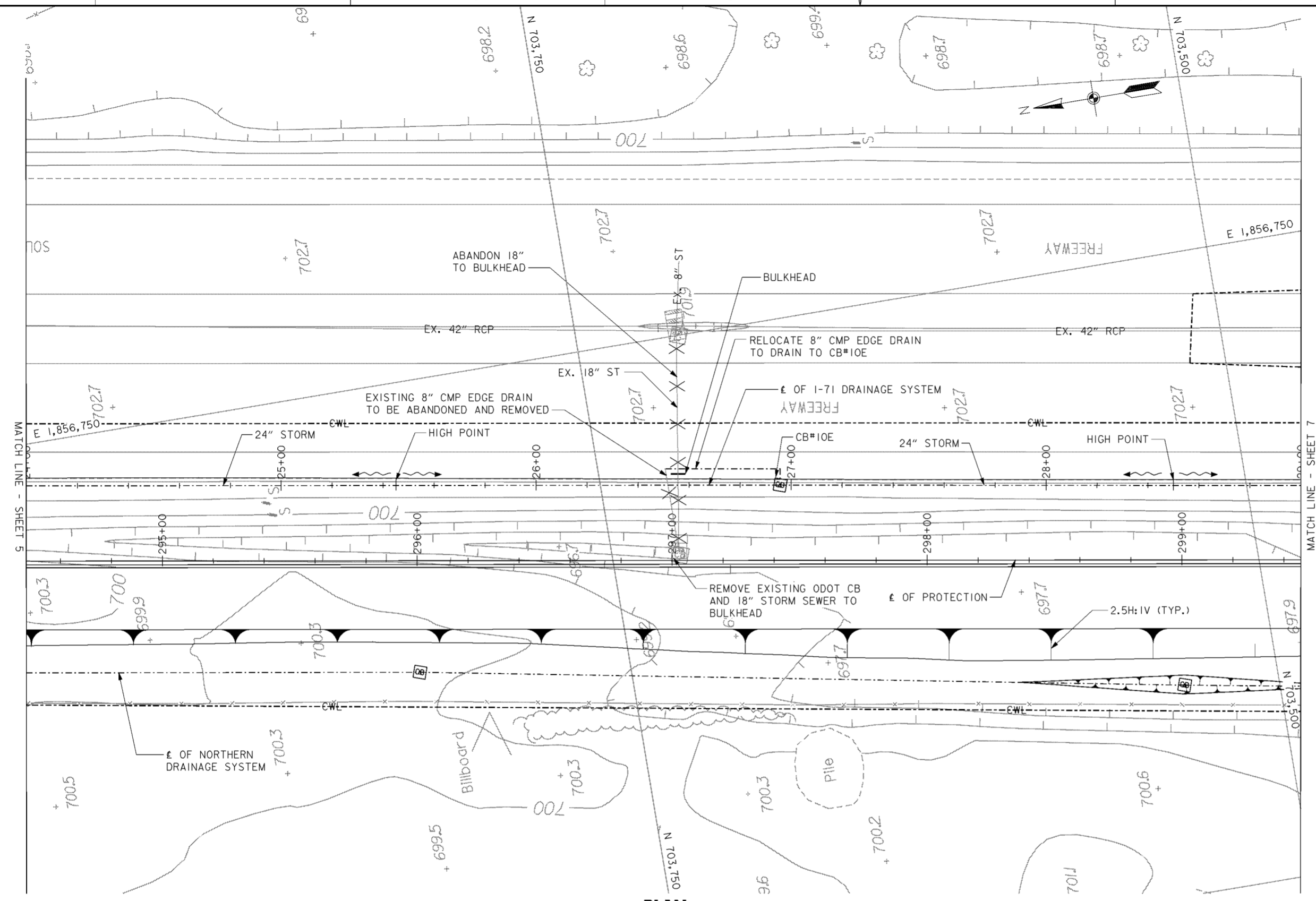
**NOTES**

1. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
2. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
3. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
4. THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
5. FOR 3" SANITARY FORCE MAIN RELOCATION SEE DRAWING NO. 15.2/12.
6. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.

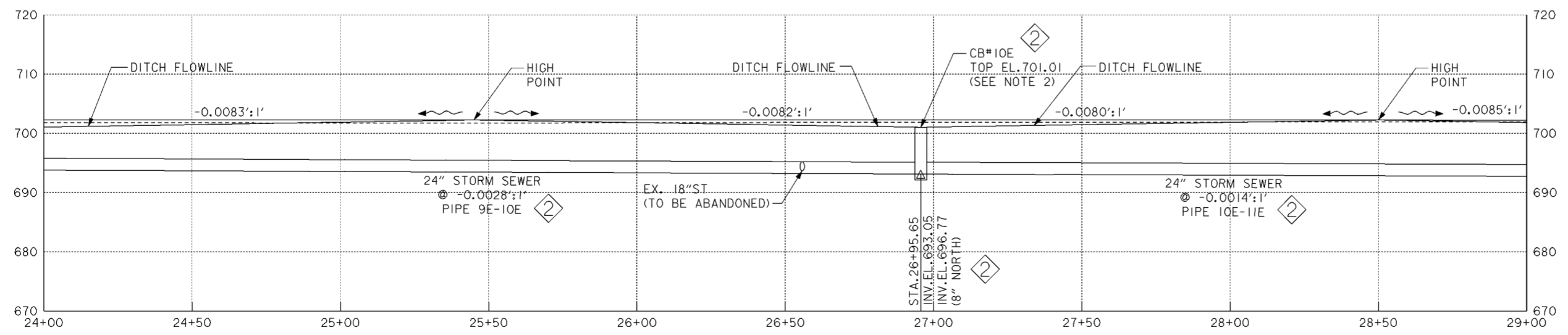
Revisions			
Symbol	Descriptions	Date	Approved
⬡	REVISED AS CONSTRUCTED	3/03	P.O.C.
⬢	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by:	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III <b>I-71 DRAINAGE SYSTEM (5 OF 15)</b>	Sheet reference number: <b>15.1/14</b>	FILENAME: a04dpp05.dgn
		Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>



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



**PROFILE**

**LEGEND**

✕-✕-✕ - LINE TO BE ABANDONED

**NOTES**

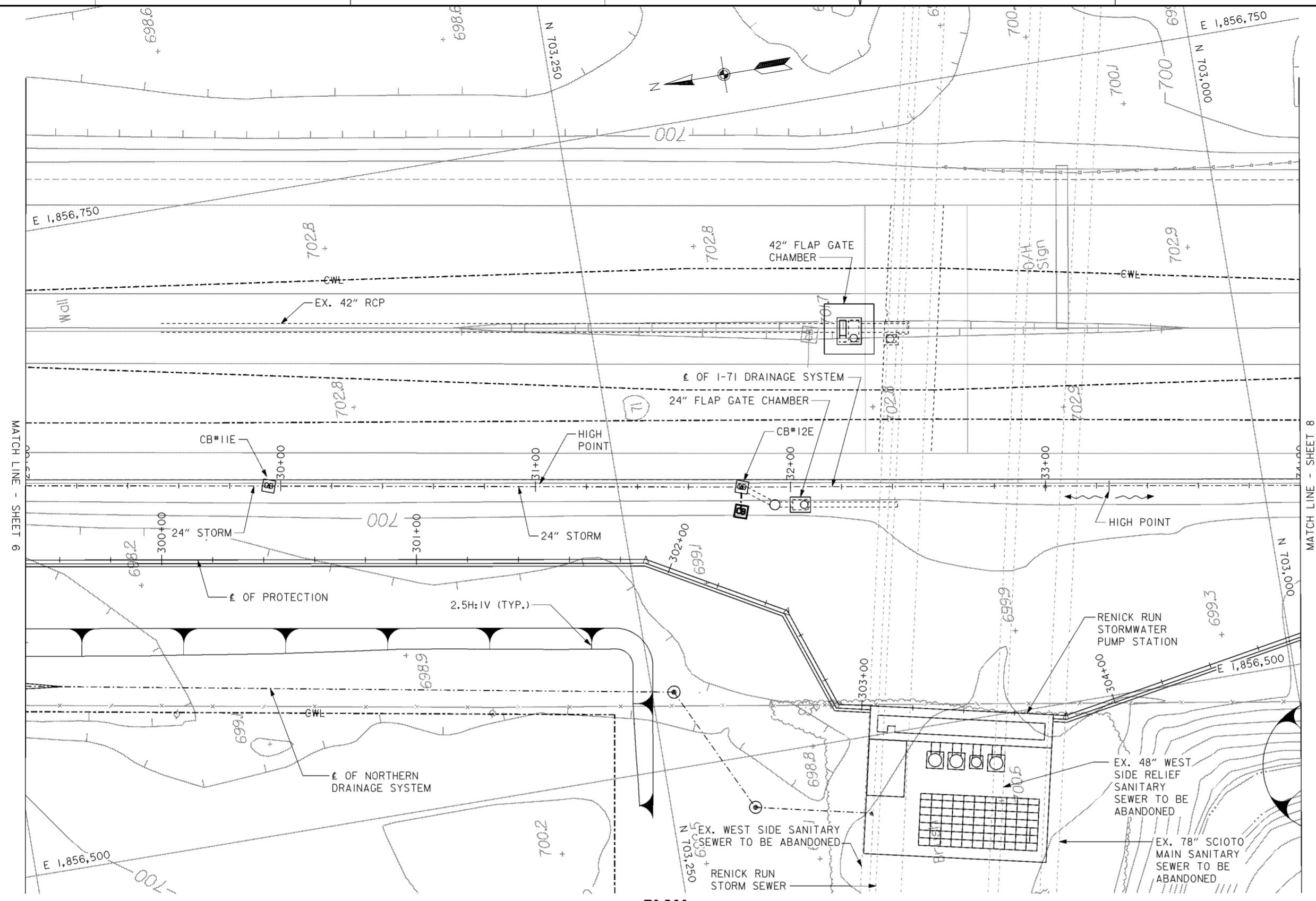
1. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
2. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
3. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
4. THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
5. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

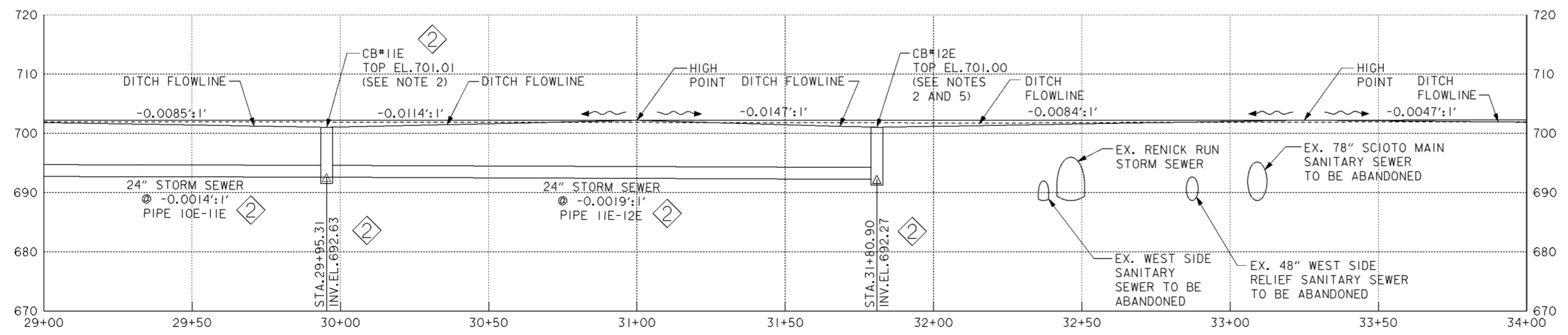
  

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by: _____ Approved by: _____	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>I-71 DRAINAGE SYSTEM (6 OF 15)</b>

**WORK AS CONSTRUCTED**



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



**PROFILE**

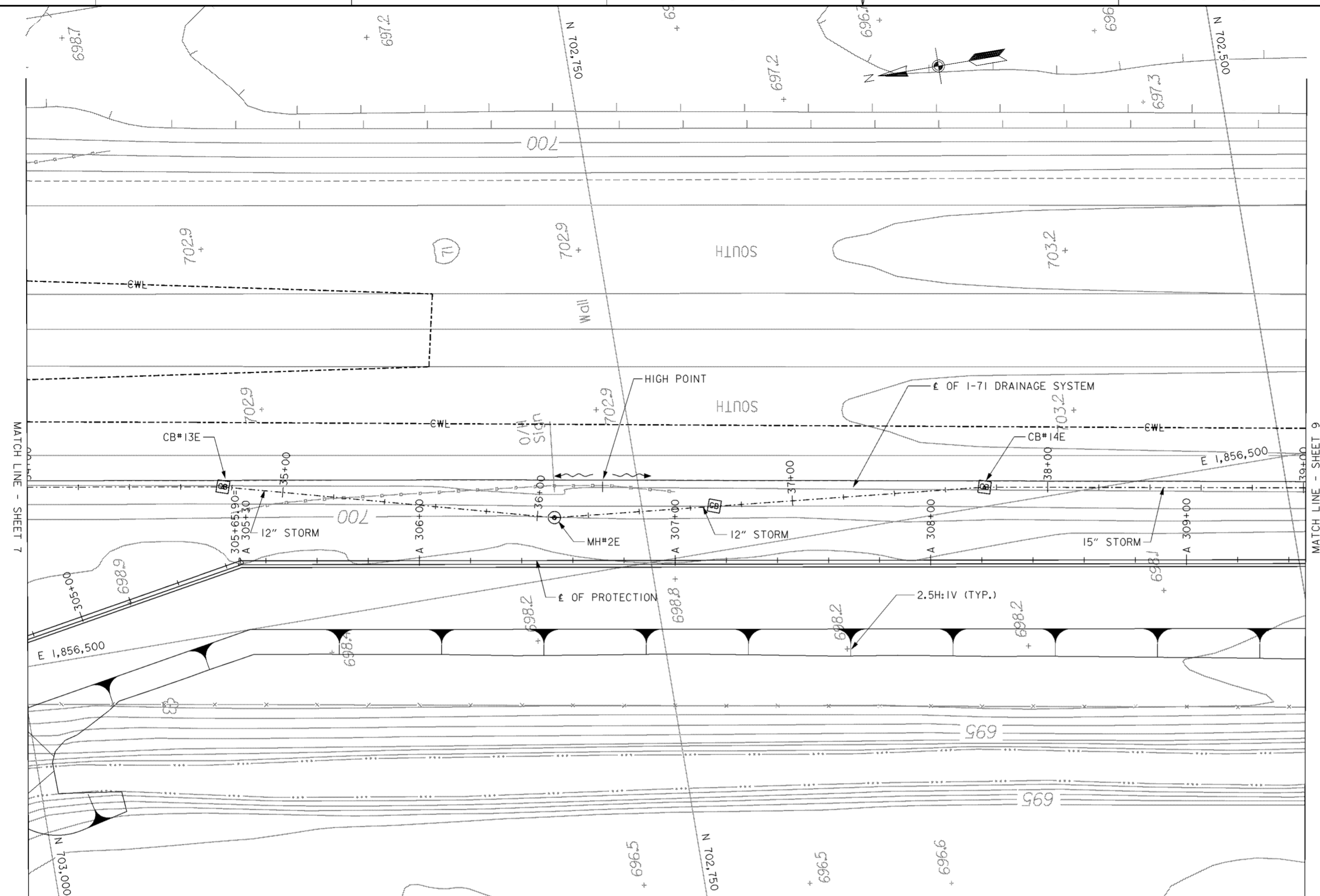
**NOTES**

1. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
2. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
3. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
4. THE DRAINAGE DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
5. FOR CB#12E TO RENICK RUN STORM SEWER PLAN AND PROFILE SEE DRAWING NO. 15.1/26.
6. FOR 42" FLAP GATE CHAMBER DETAILS SEE DRAWING NO. 20.3/1.
7. FOR 24" FLAP GATE CHAMBER DETAILS SEE DRAWING NO. 20.3/7.
8. FOR 24" FLAP GATE PLAN AND PROFILE SEE DRAWING NO. 15.1/26.
9. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.

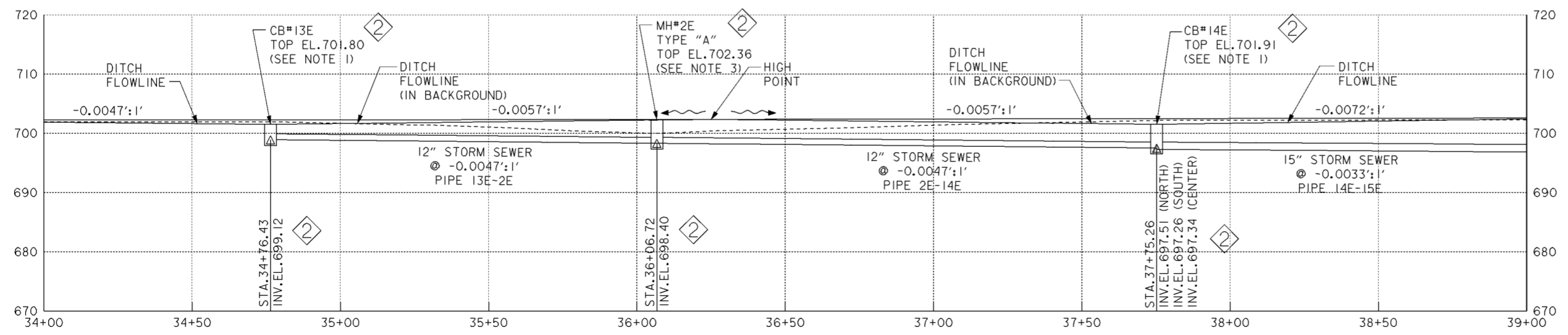
Revisions			
Symbol	Descriptions	Date	Approved
⬠	REVISED AS CONSTRUCTED	3/03	P.O.C.
⬠	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by: <b>AS SHOWN</b> Approved by:	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>I-71 DRAINAGE SYSTEM (7 OF 15)</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.1/16</b>	FILENAME: PIN TABLE: a0dpp07.dgn
		Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>7</b> of <b>15</b>



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



**PROFILE**  
SCALE IN FEET

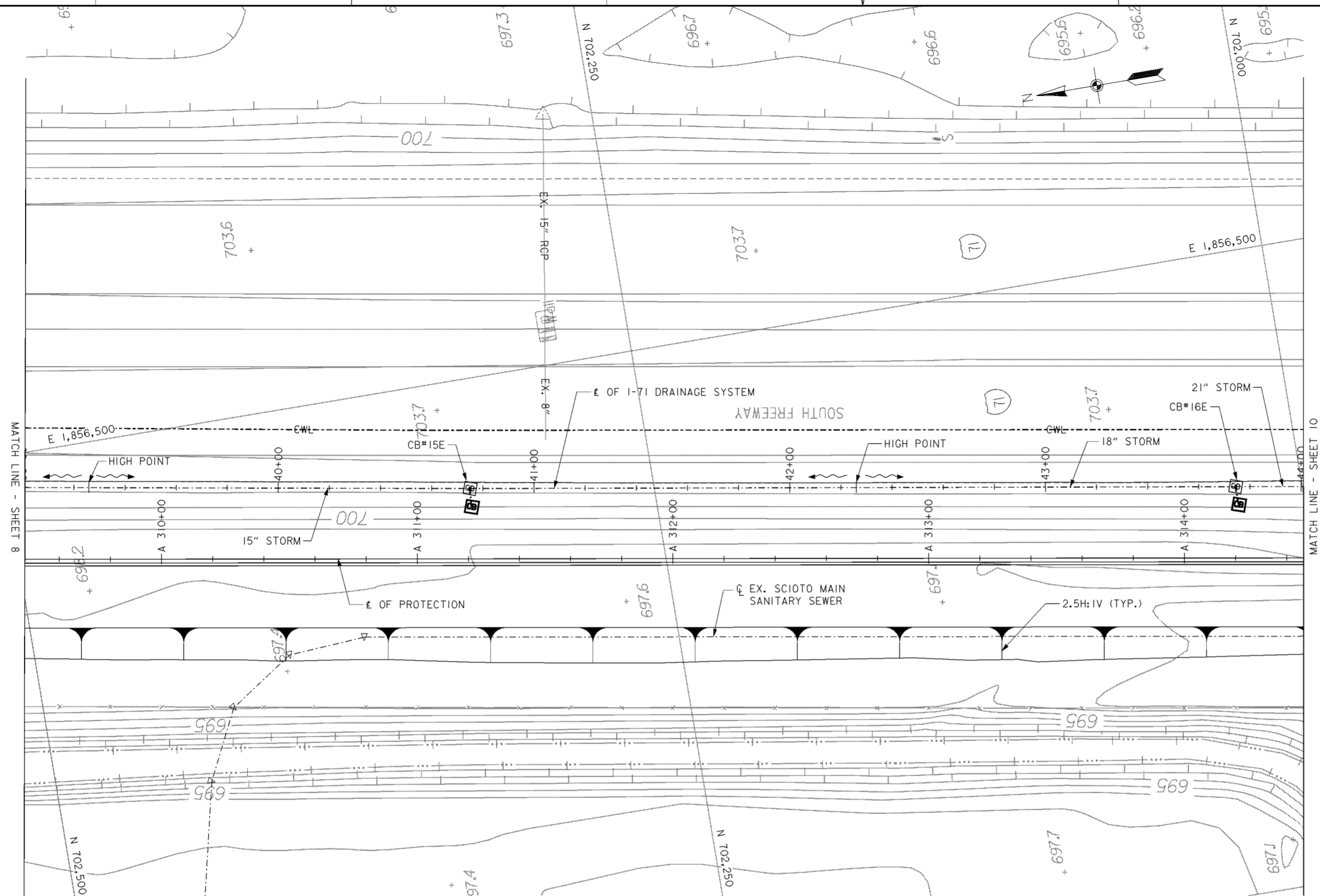
**NOTES**

1. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
2. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
3. FOR MANHOLE DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING NOS. AA-S100 AND AA-S112.
4. THE COLLECTION DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
5. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO. 15.1/9.

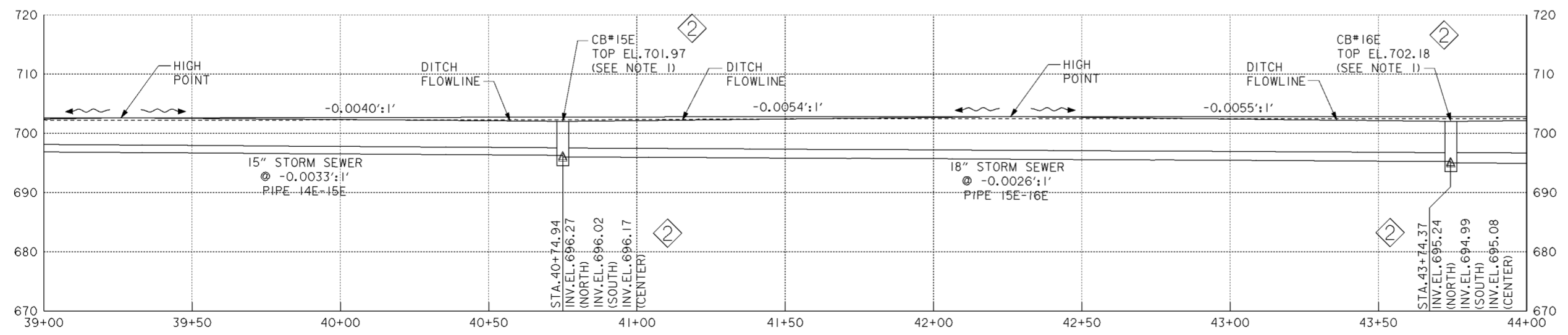
Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by:	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>I-71 DRAINAGE SYSTEM (8 OF 15)</b>



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



**PROFILE**  
SCALE IN FEET

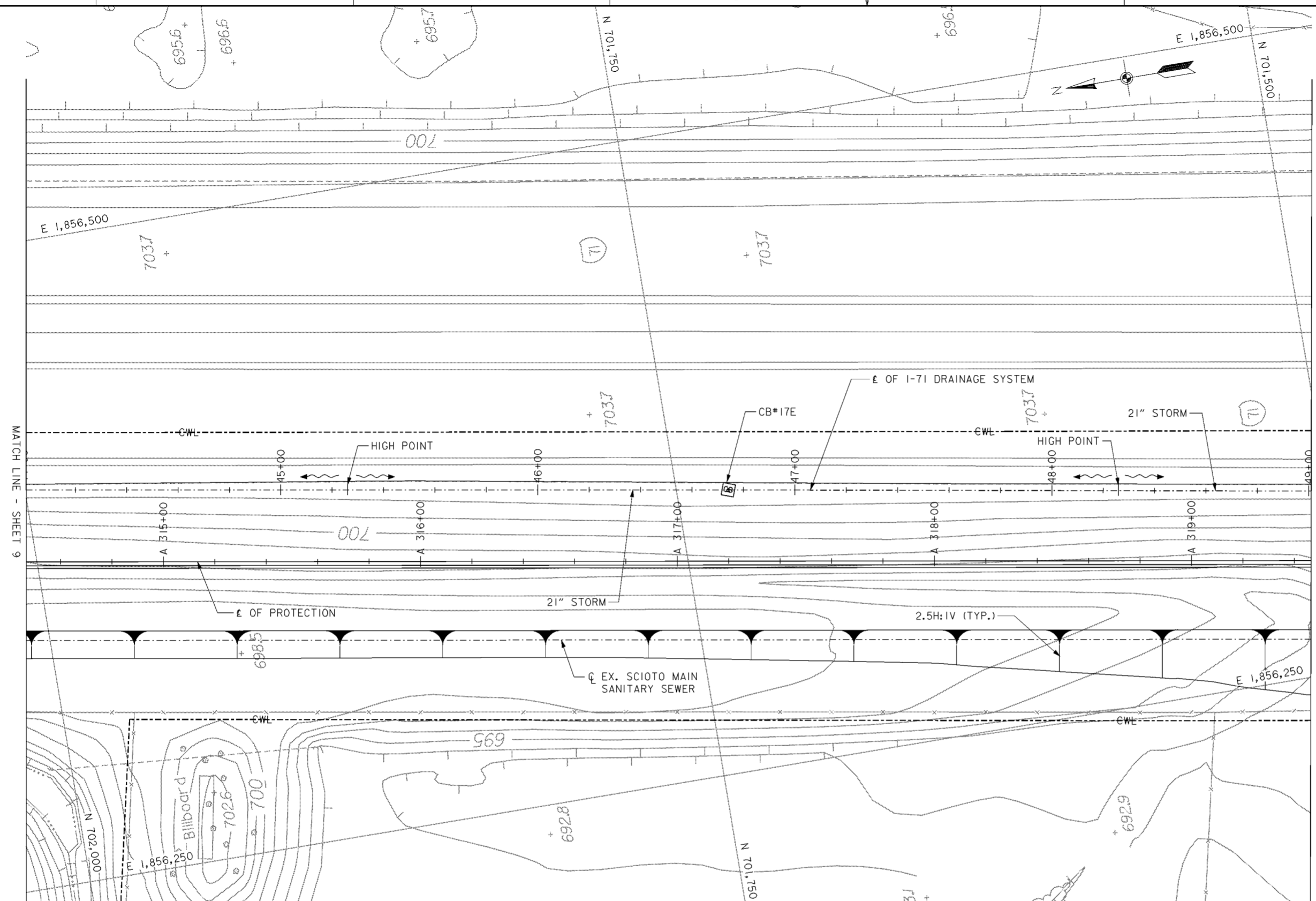
- NOTES**
1. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
  2. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
  3. THE COLLECTION DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
  4. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO.15.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.
◊	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

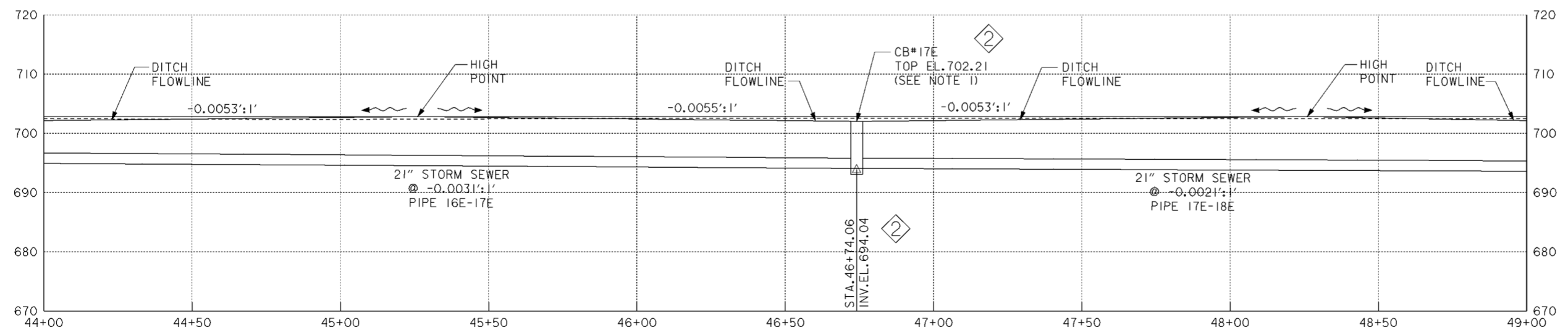
  

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D.MOORE</b> Drawn by: <b>T.MULLINS</b> Checked by: <b>P.CONROY</b> Reviewed by:	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III <b>I-71 DRAINAGE SYSTEM (9 OF 15)</b>
Approved by:	Sheet reference number: <b>15.1/18</b> FILENAME: <b>a0dpp09.dgn</b> PEN TABLE: Sheet <b>9</b> of <b>15</b>

**WORK AS CONSTRUCTED**



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



**PROFILE**  
SCALE IN FEET

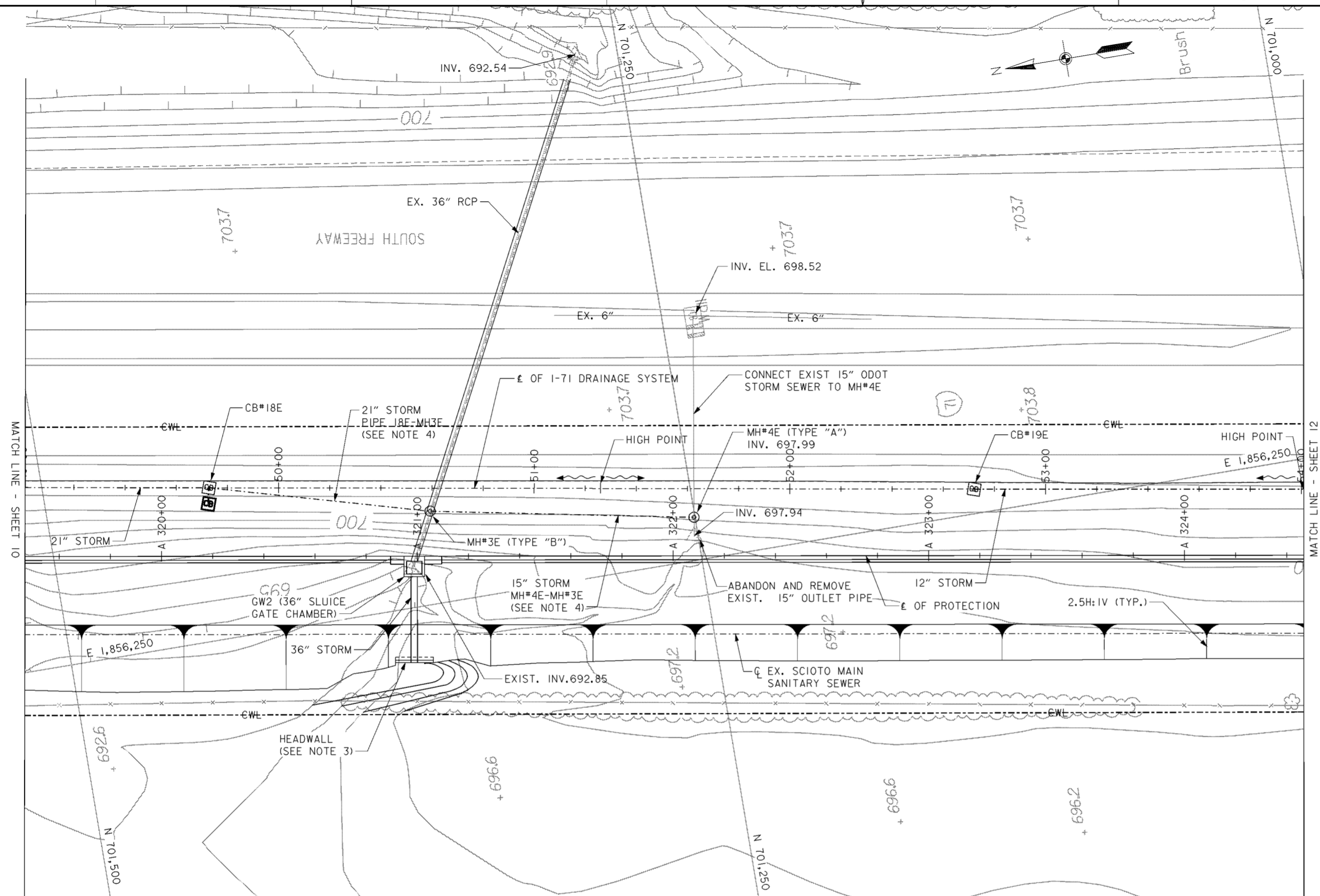
**NOTES**

1. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
2. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
3. THE COLLECTION DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
4. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO.15.1/9.

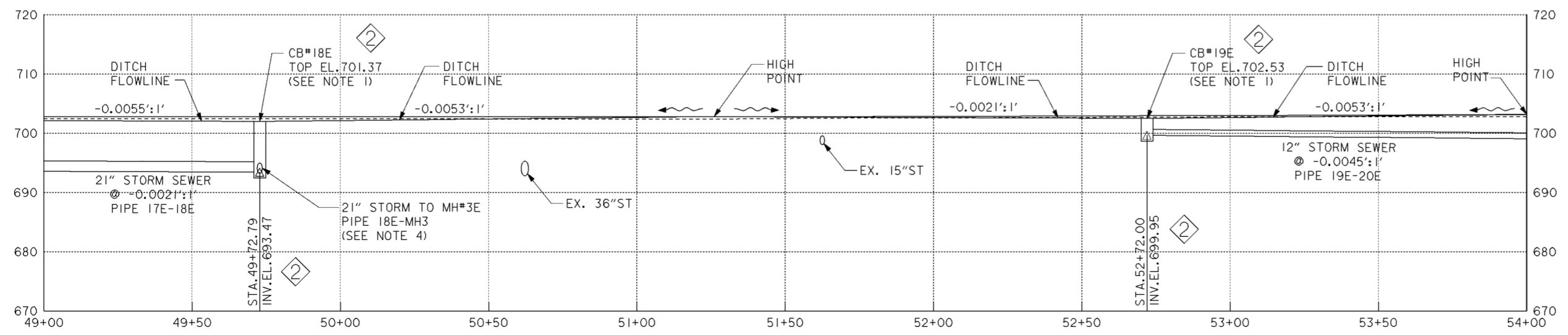
Revisions			
Symbol	Descriptions	Date	Approved
Ⓛ	REVISED AS CONSTRUCTED	3/03	P.O.C.
Ⓜ	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>D. MOORE</b>	<b>I-71 DRAINAGE SYSTEM (10 OF 15)</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.1/9</b>	FILENAME: PEN TABLE: a04dpp10.dgn
Drawing Code: <b>016-PWC-13</b>	Date: <b>OCTOBER 2000</b>	Sheet <b>10</b> of <b>15</b>	



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



**PROFILE**  
SCALE IN FEET

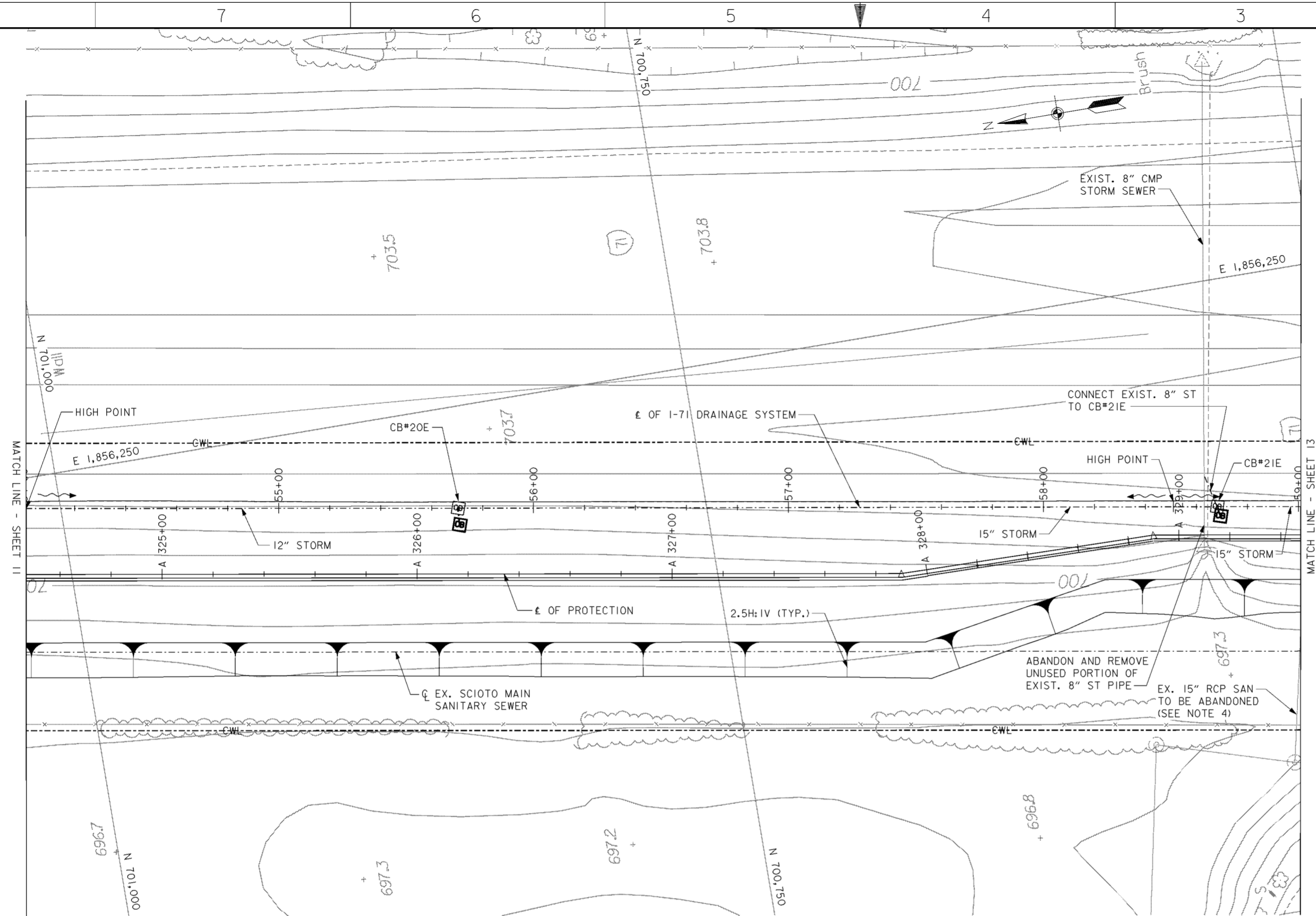
- NOTES**
1. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
  2. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
  3. THE COLLECTION DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
  4. FOR PROFILE OF STORM SEWER 18E-MH3E-MH4E SEE DRAWING NO.15.1/9.
  5. FOR TYPE "B" MANHOLE, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S101 AND AA-S112.
  6. FOR TYPE "A" MANHOLE, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S100 AND AA-S112.
  7. FOR PROFILE ON 36" STORM SEWER SEE DRAWING NO.15.1/25.
  8. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO.15.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
⬠	REVISED AS CONSTRUCTED	3/03	P.O.C.
⬠	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

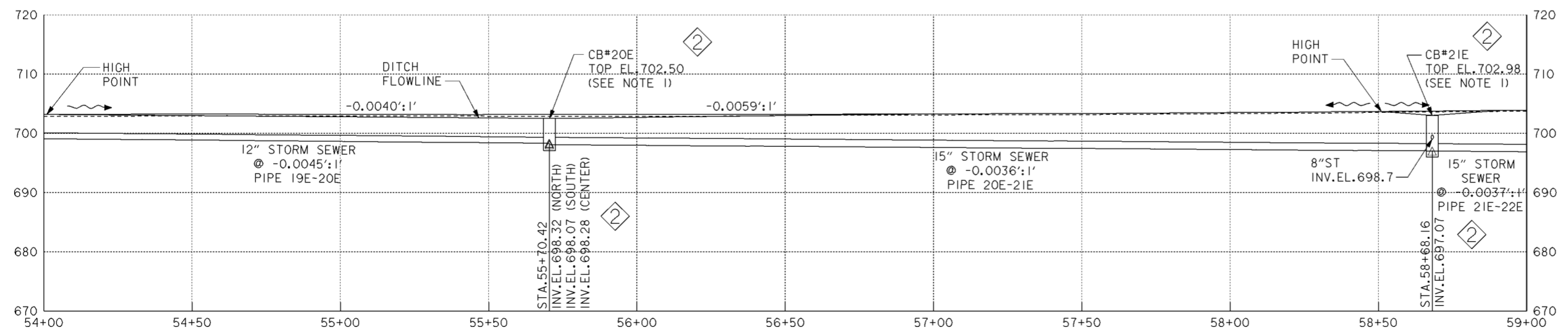
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by: _____ Approved by: _____	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>I-71 DRAINAGE SYSTEM (11 OF 15)</b>





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



**PROFILE**  
SCALE IN FEET

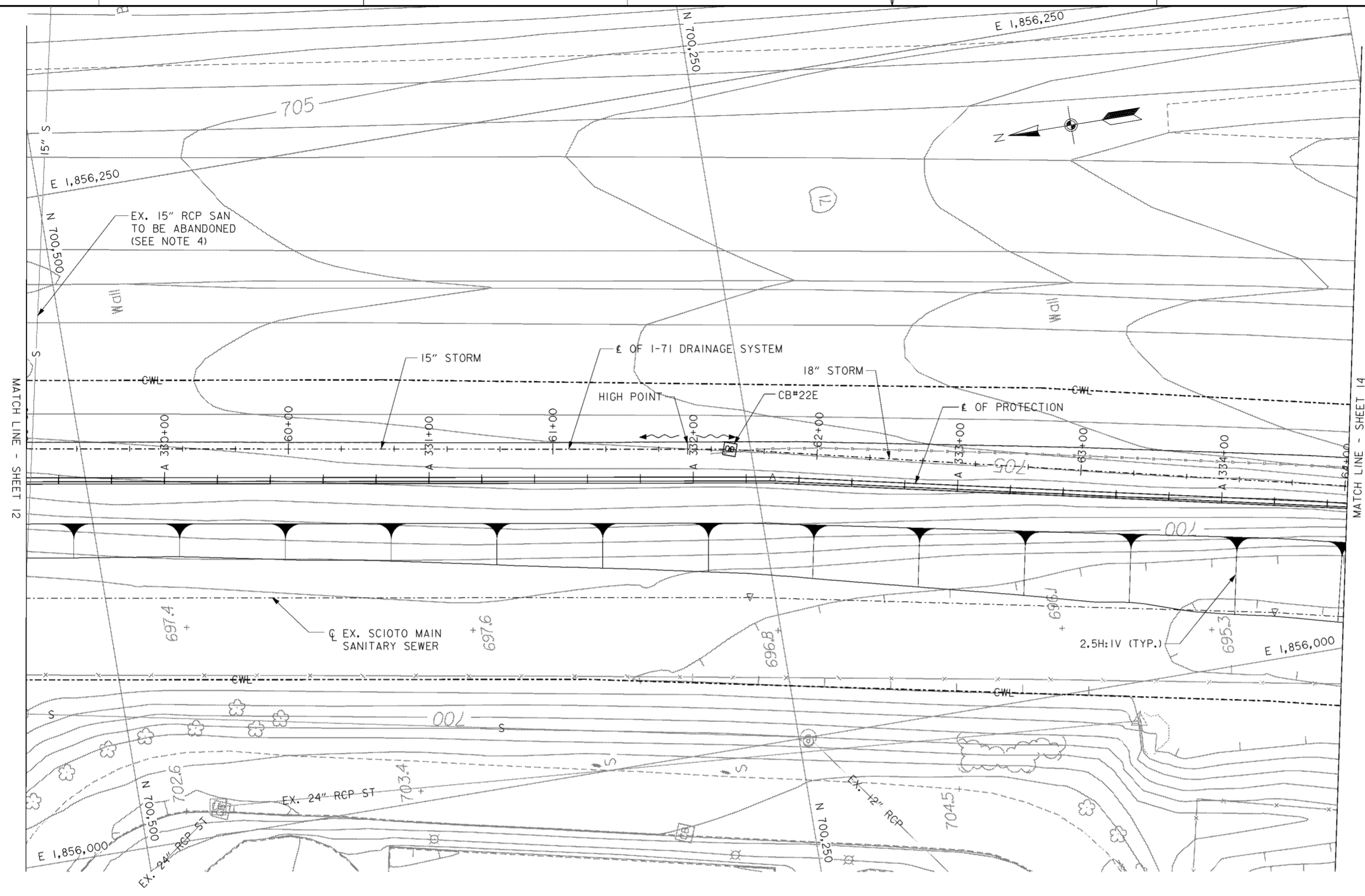
- NOTES**
1. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
  2. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
  3. THE COLLECTION DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
  4. FOR 15" SANITARY ABANDONMENT SEE DRAWING NO. 15.2/7.
  5. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO.15.1/9.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

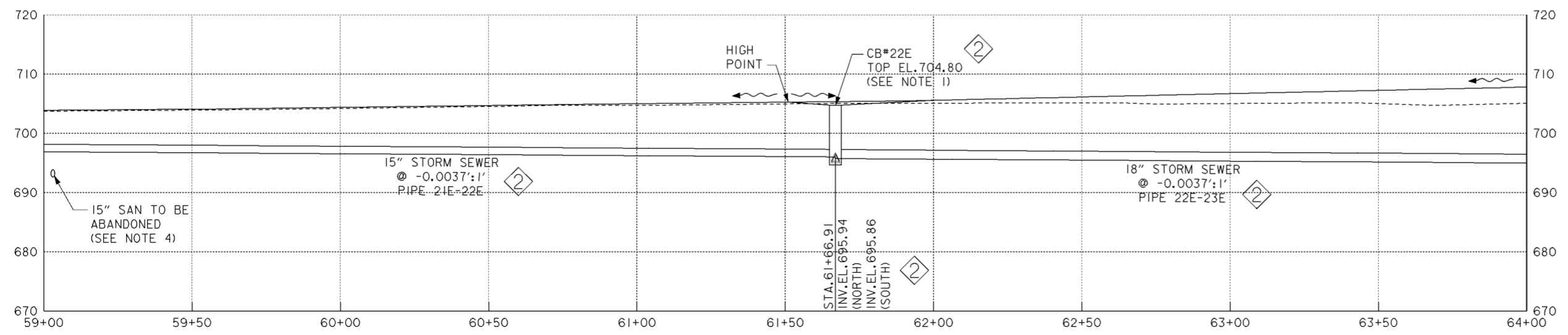
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by:	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>I-71 DRAINAGE SYSTEM (12 OF 15)</b>	Scale: <b>AS SHOWN</b>	Sheet reference number:	FILENAME: a04dpp12.dgn
		Date: <b>OCTOBER 2000</b>	Sheet number: <b>15.1/21</b>	PEN TABLE:
Approved by:	Drawing Code: <b>016-PWC-13</b>	Sheet <b>12</b> of <b>15</b>		

**WORK AS CONSTRUCTED**



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



**PROFILE**  
SCALE IN FEET

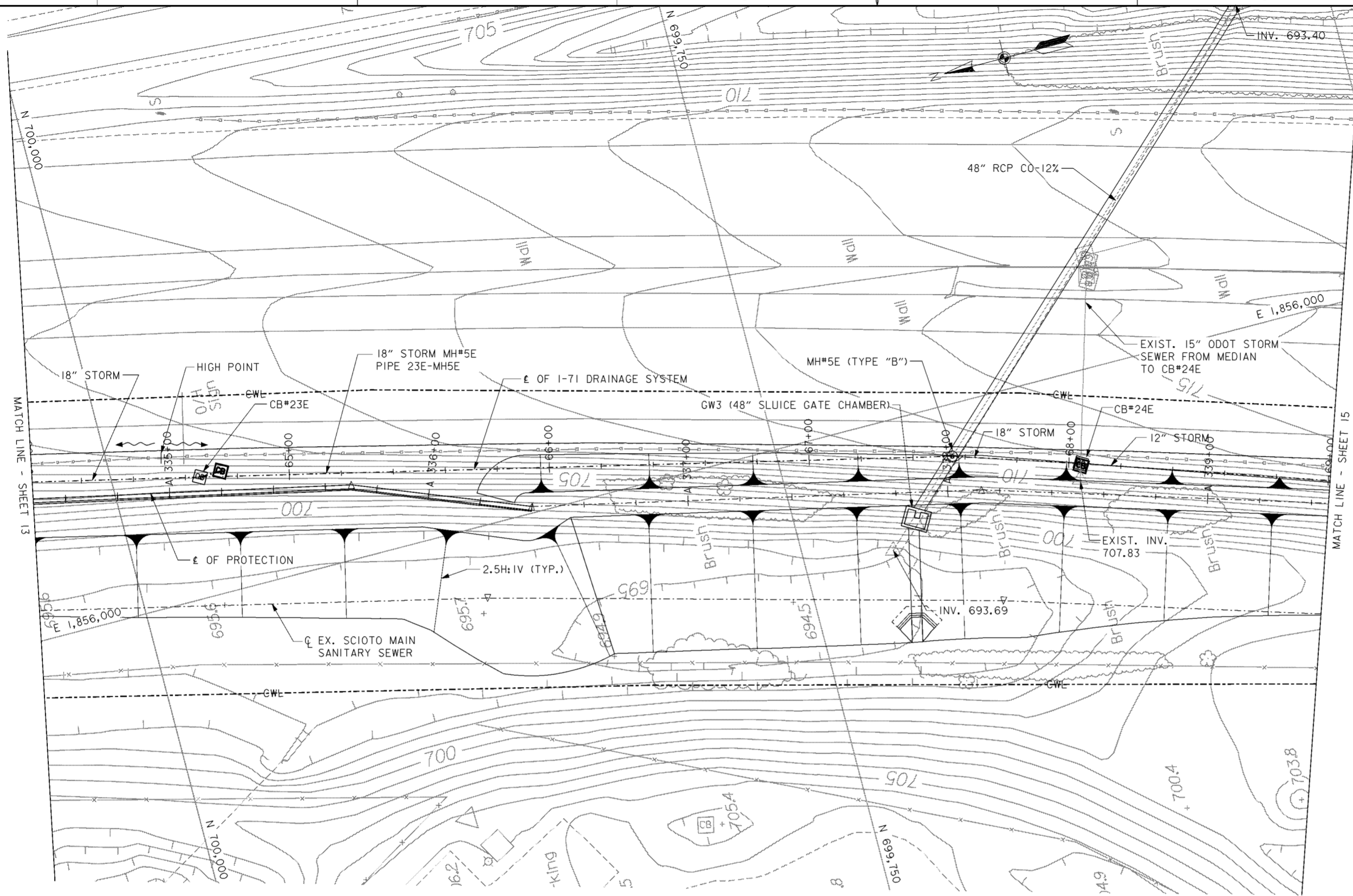
**NOTES**

1. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
2. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
3. THE COLLECTION DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
4. FOR 15" SANITARY ABANDONMENT SEE DRAWING NO. 15.2/7.
5. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO.15.1/9.

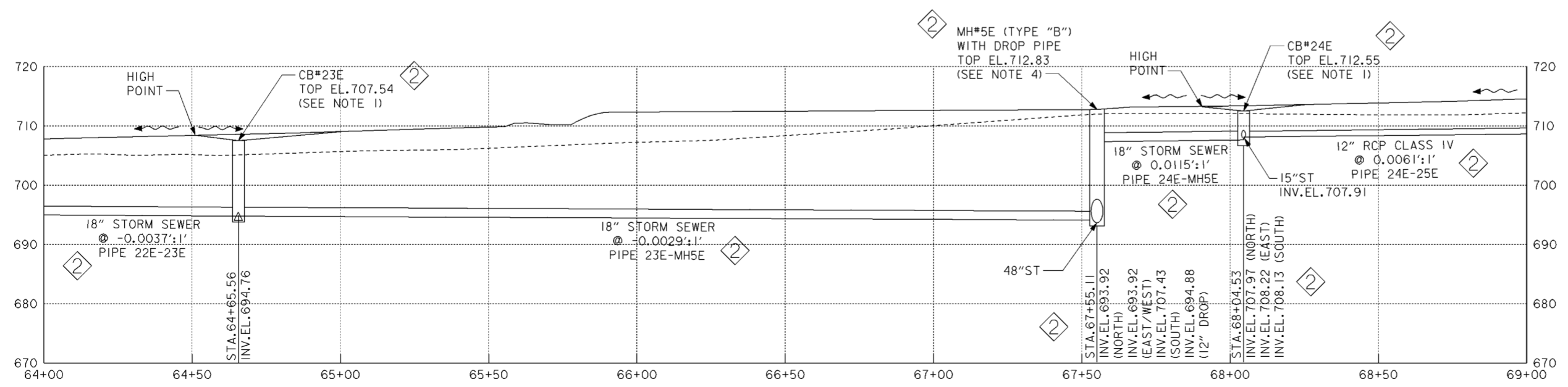
Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by:	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>I-71 DRAINAGE SYSTEM (13 OF 15)</b>	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.1/22</b> FILENAME: a04dpp13.dgn PEN TABLE: Sheet <b>13</b> of <b>15</b>
		Approved by:	



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



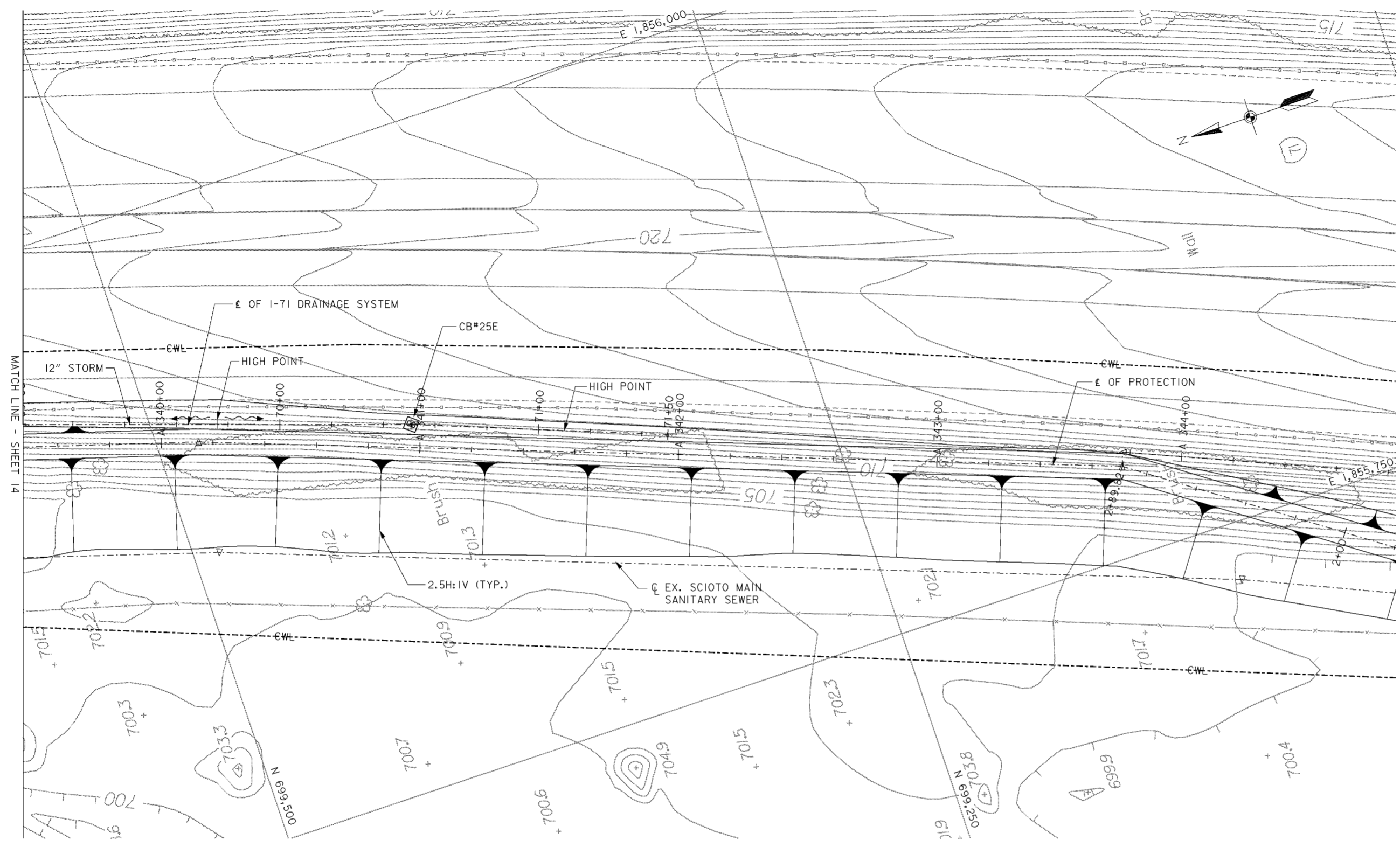
**PROFILE**  
SCALE IN FEET

- NOTES**
1. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
  2. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
  3. THE COLLECTION DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
  4. FOR TYPE "B" MANHOLE AND DROP PIPE DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S101 AND AA-S110.
  5. FOR 48" SLUICE GATE CHAMBER AND SEWER SEE DRAWING NO. 15.1/27.
  6. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO.15.1/9.

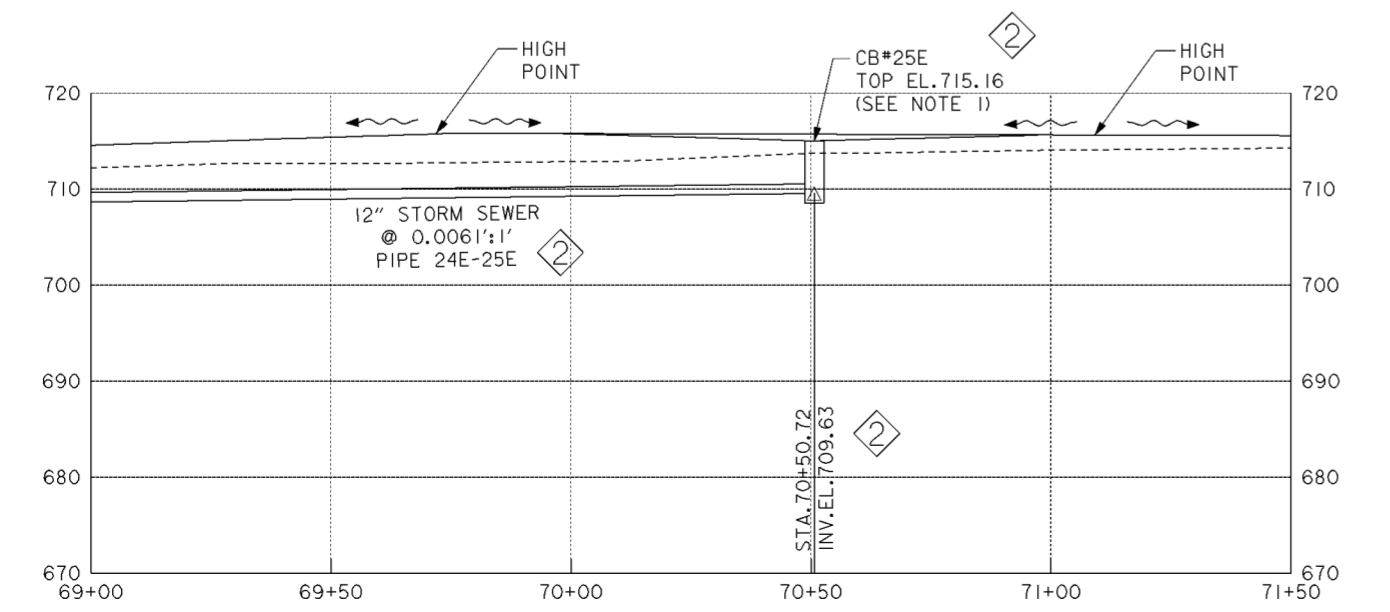
Revisions			
Symbol	Descriptions	Date	Approved
⬠	REVISED AS CONSTRUCTED	3/03	P.O.C.
⬠	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>D. MOORE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>P. CONROY</b> Reviewed by: _____ Approved by: _____	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>I-71 DRAINAGE SYSTEM (14 OF 15)</b>	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.1/23</b> FILENAME: <b>016dpp14.dgn</b> PIN TABLE: Sheet <b>14</b> of <b>15</b>
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**PLAN**  
SCALE: 1" = 20'



**PROFILE**  
SCALE IN FEET

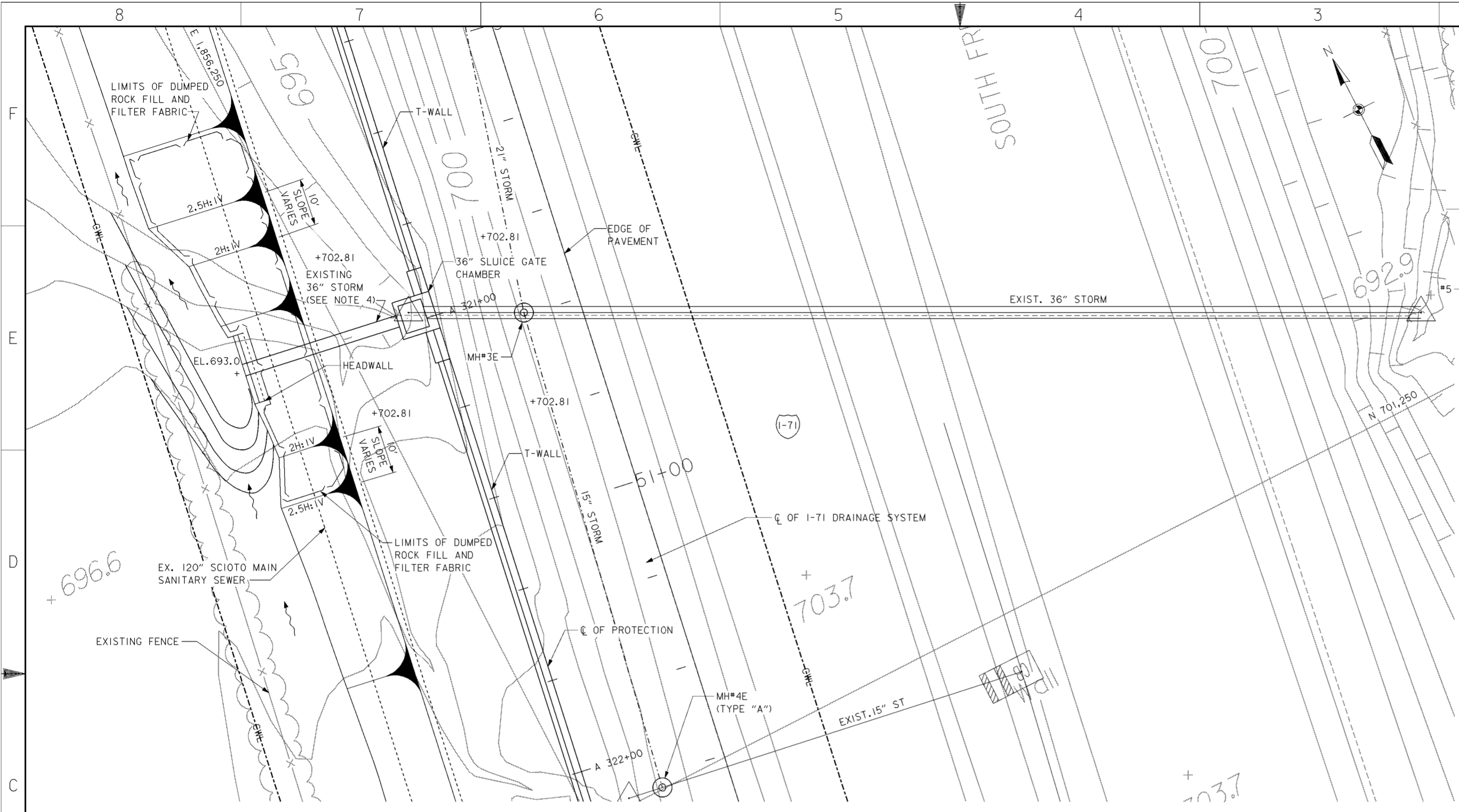
**NOTES**

1. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S100.
2. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
3. THE COLLECTION DITCHES SHALL BE V-SHAPED AND HAVE 4:1 SIDE SLOPES UNLESS NOTED OTHERWISE.
4. FOR DRAINAGE FEATURE HORIZONTAL CONTROL (NORTHING/EASTING) SEE TABLE ON DRAWING NO.15.1/9.

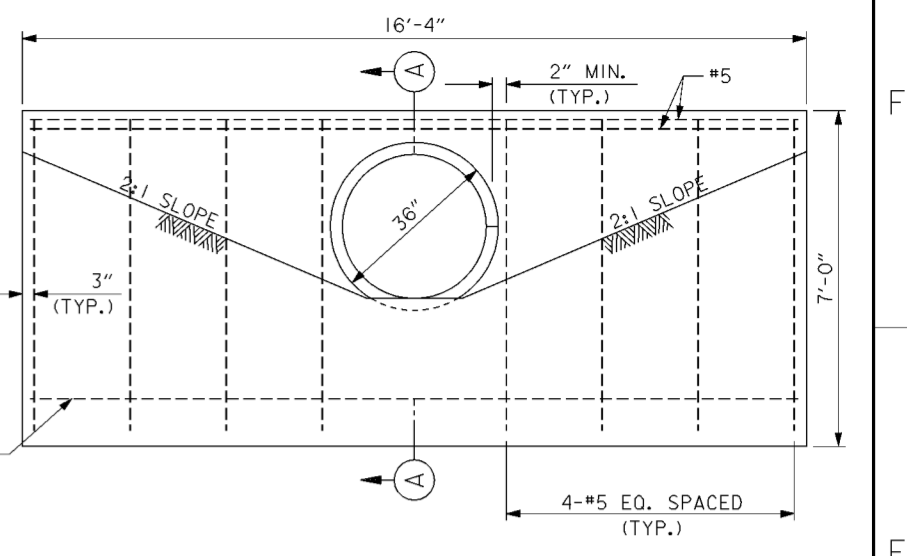
Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

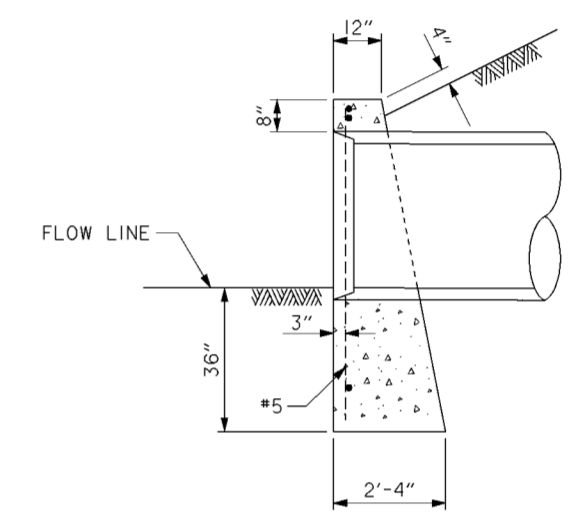
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>D. MOORE</b>	<b>I-71 DRAINAGE SYSTEM (15 OF 15)</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.1/24</b>	FILENAME: PEN TABLE: a0dpp15.dgn
Drawing Code: <b>016-PWC-13</b>	Date: <b>OCTOBER 2000</b>	Sheet <b>15 of 15</b>	



**PLAN**  
SCALE: 1" = 10'



**ELEVATION**



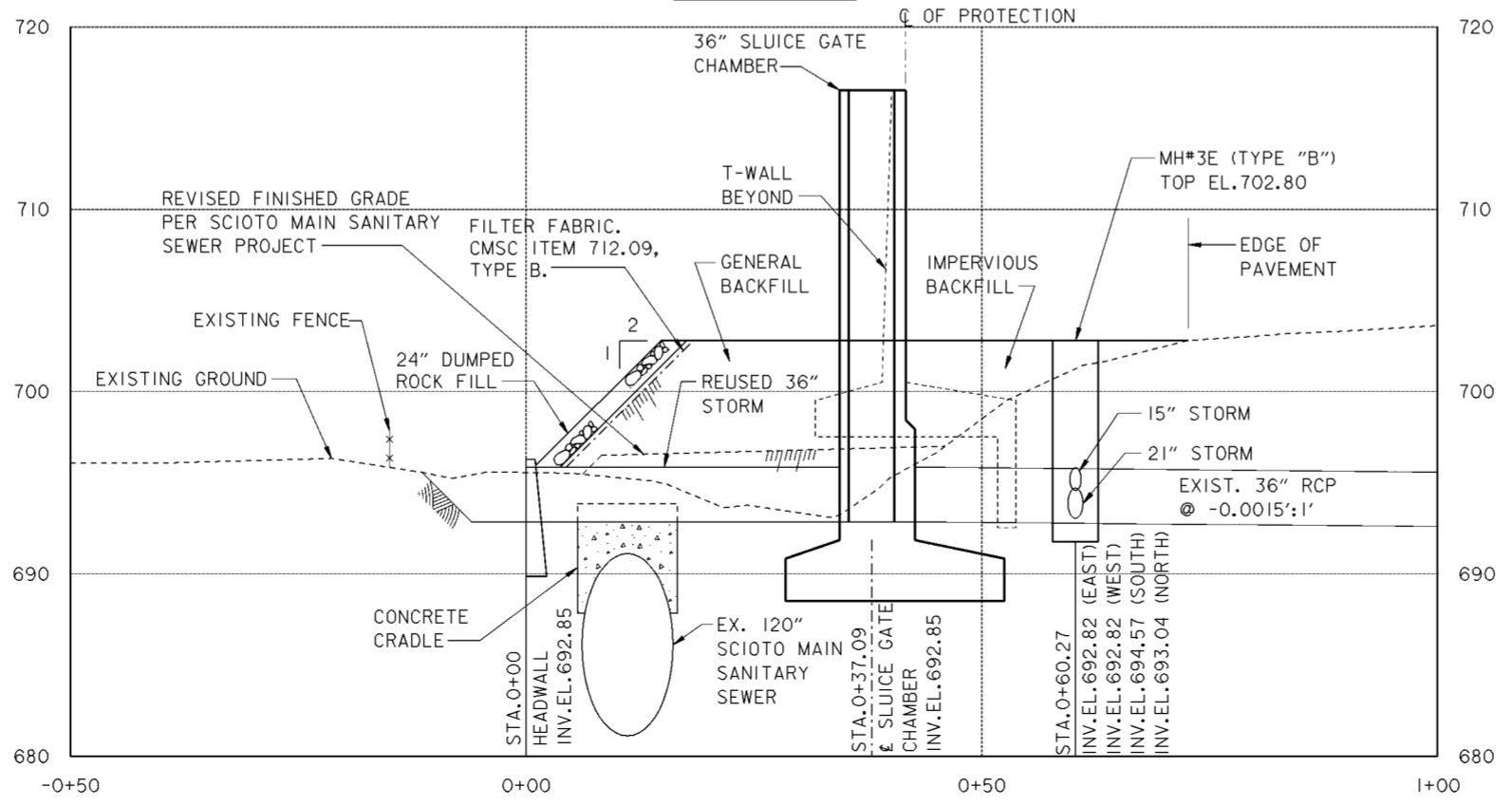
**SECTION A-A**

**36" RCP HEADWALL**

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

**NOTES**

- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
- FOR 36 INCH SLUICE GATE CHAMBER STRUCTURAL DETAILS SEE DRAWING NO. 20.3/4.
- FOR 36" SLUICE GATE GENERAL LOCATION SEE DRAWING NO. 15.1/20.
- CONTRACTOR SHALL REMOVE 36" RCP STORM AS NEEDED FOR SLUICE GATE CONSTRUCTION. CONTRACTOR SHALL THEN REUSE EXISTING 36" RCP UPON COMPLETION OF SLUICE GATE.

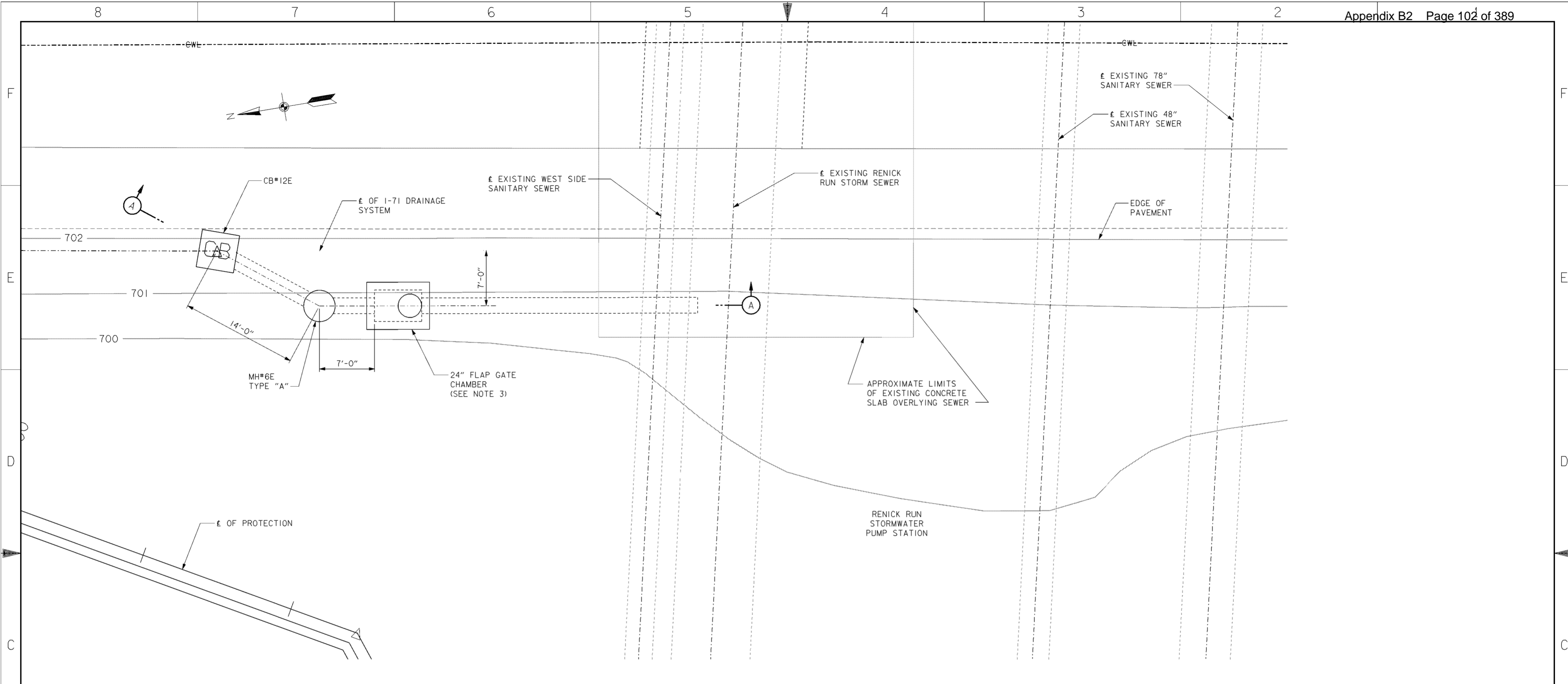


**PROFILE**

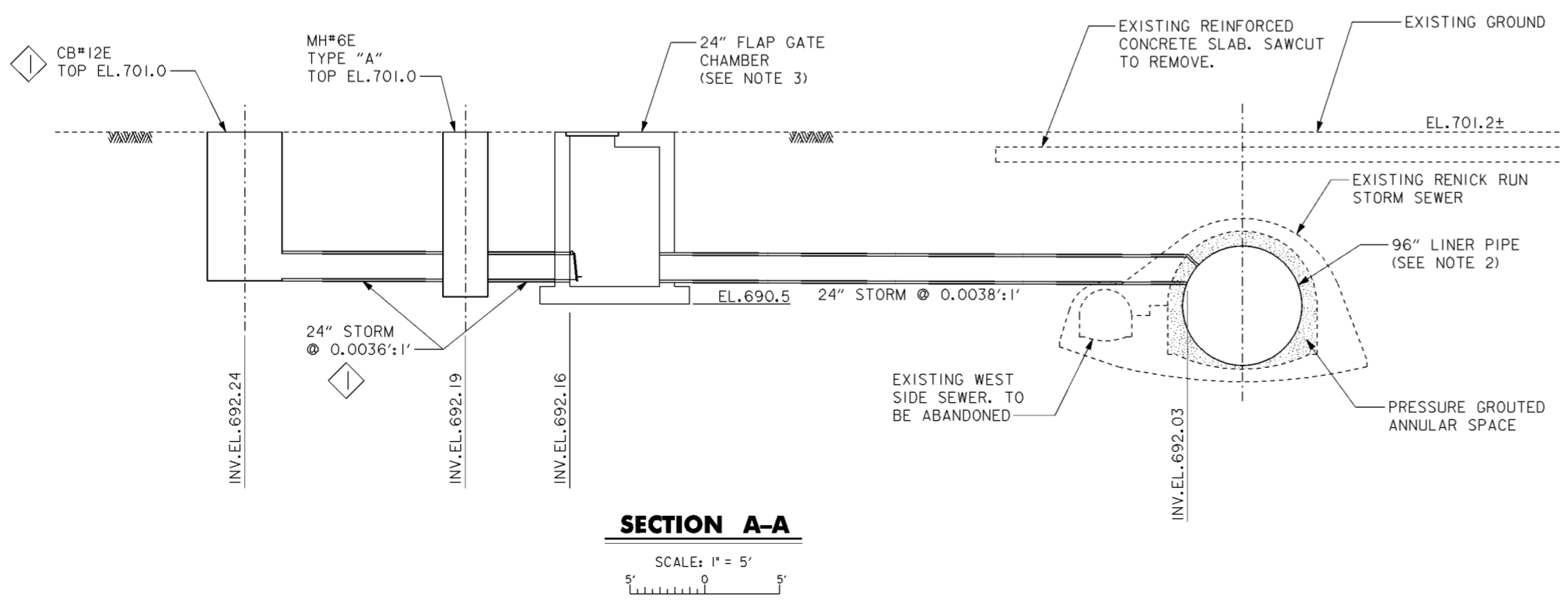
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	P. CONROY Registered Professional Engineer No. 10456 State of Ohio	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B



**PLAN**  
SCALE: 1" = 5'



**SECTION A-A**  
SCALE: 1" = 5'

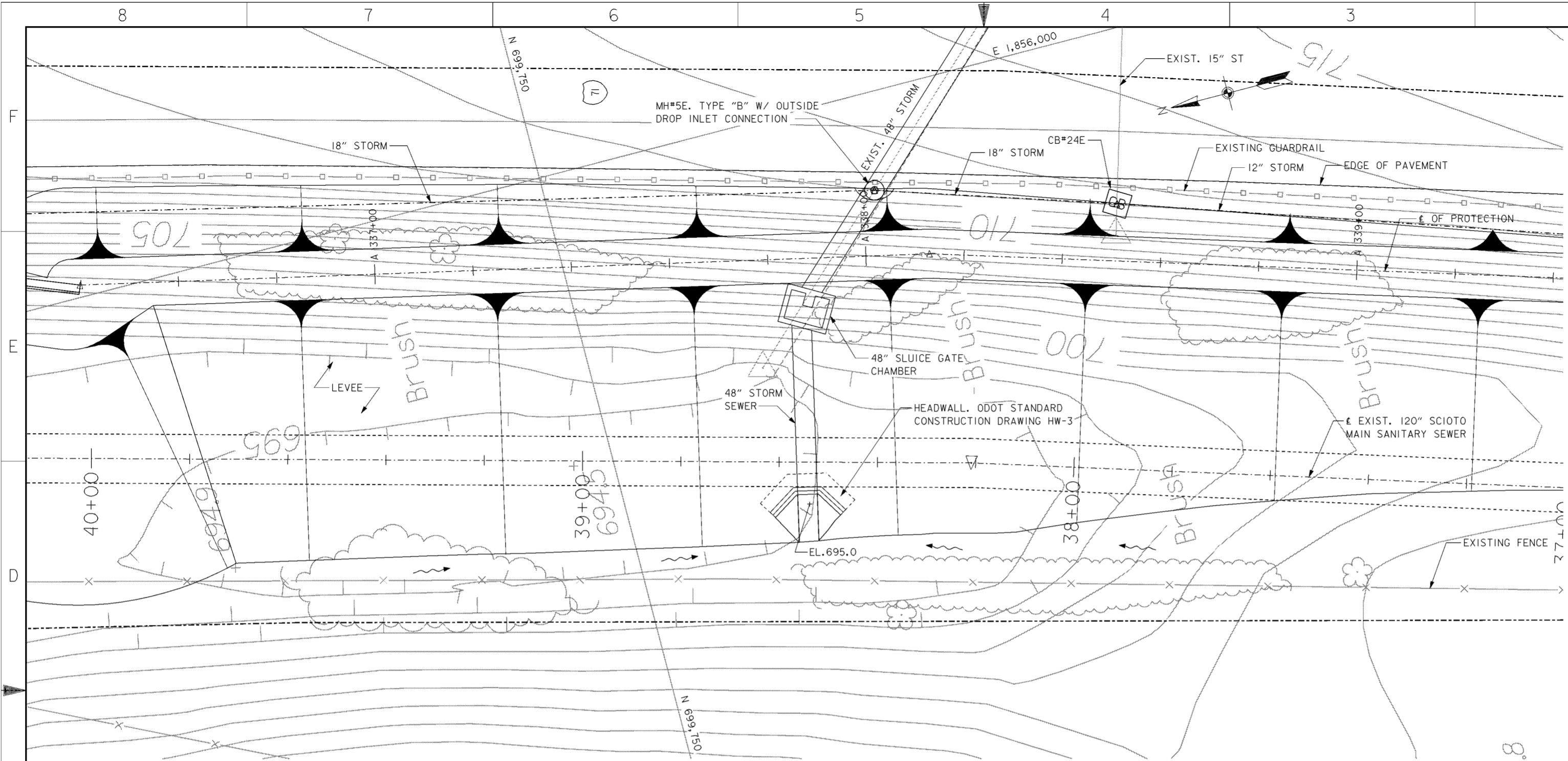
24" FLAP GATE COORDINATES		
FEATURE	NORTHING	EASTING
24" STORM @ CB#12E	703,201.9300	1,856,604.6520
24" STORM @ MH#6E	703,191.2097	1,856,595.7234
NORTH EDGE OF FOOTER	703,186.2801	1,856,594.8874
SOUTH EDGE OF FOOTER	703,176.4209	1,856,593.2154

**NOTES**

- 1. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/10 THRU 15.1/24.
- 2. FOR 96" LINER PIPE SEE DRAWING NOS. 15.4/1 THRU 15.4/9.
- 3. FOR 24" FLAP GATE CHAMBER DETAILS SEE DRAWING NO. 20.3/7.

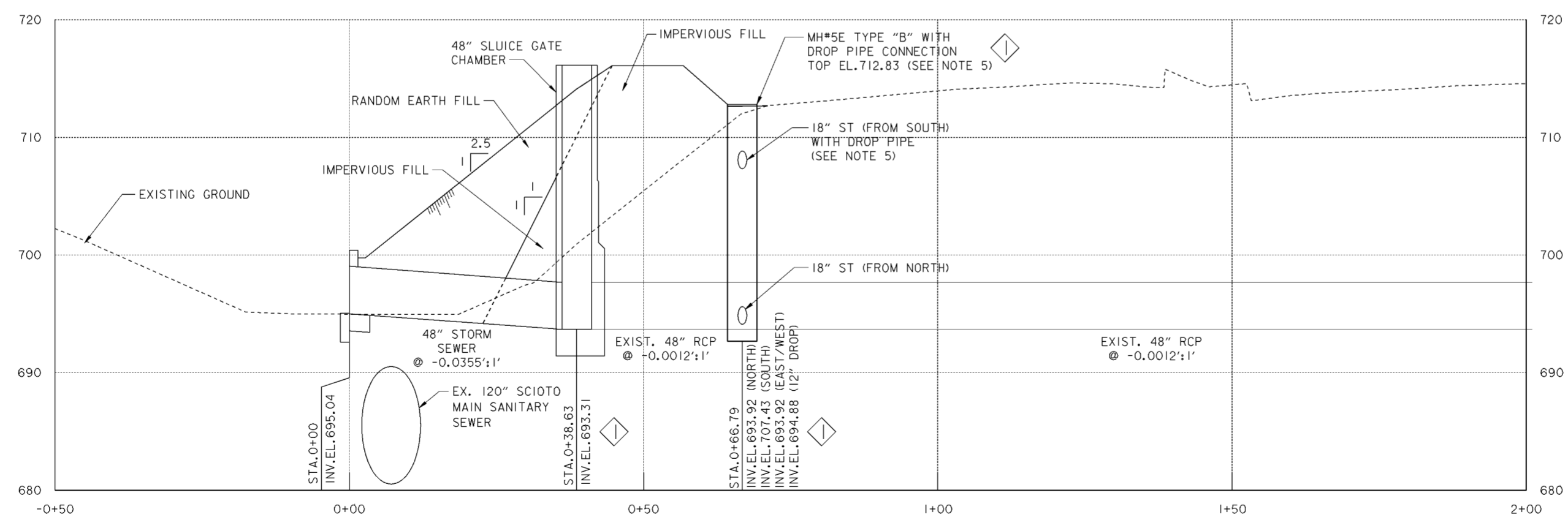
Revisions			
Symbol	Descriptions	Date	Approved
REVISED AS CONSTRUCTED		3/03	P.O.C.

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>J.HALL</b></p> <p>Drawn by: <b>A.PUMMELL</b></p> <p>Checked by: <b>P.CONROY</b></p> <p>Reviewed by:</p> <p>Approved by:</p>	<p><b>U.S.ARMAY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p>SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB</p> <p><b>24" FLAP GATE</b> <b>SITE PLAN</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p>Sheet reference number: <b>15.1/26</b></p> <p>FILENAME: a0d6p103.dgn PIN TABLE: Sheet 1 of 1</p>
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**PLAN**

SCALE: 1" = 10'



**PROFILE**

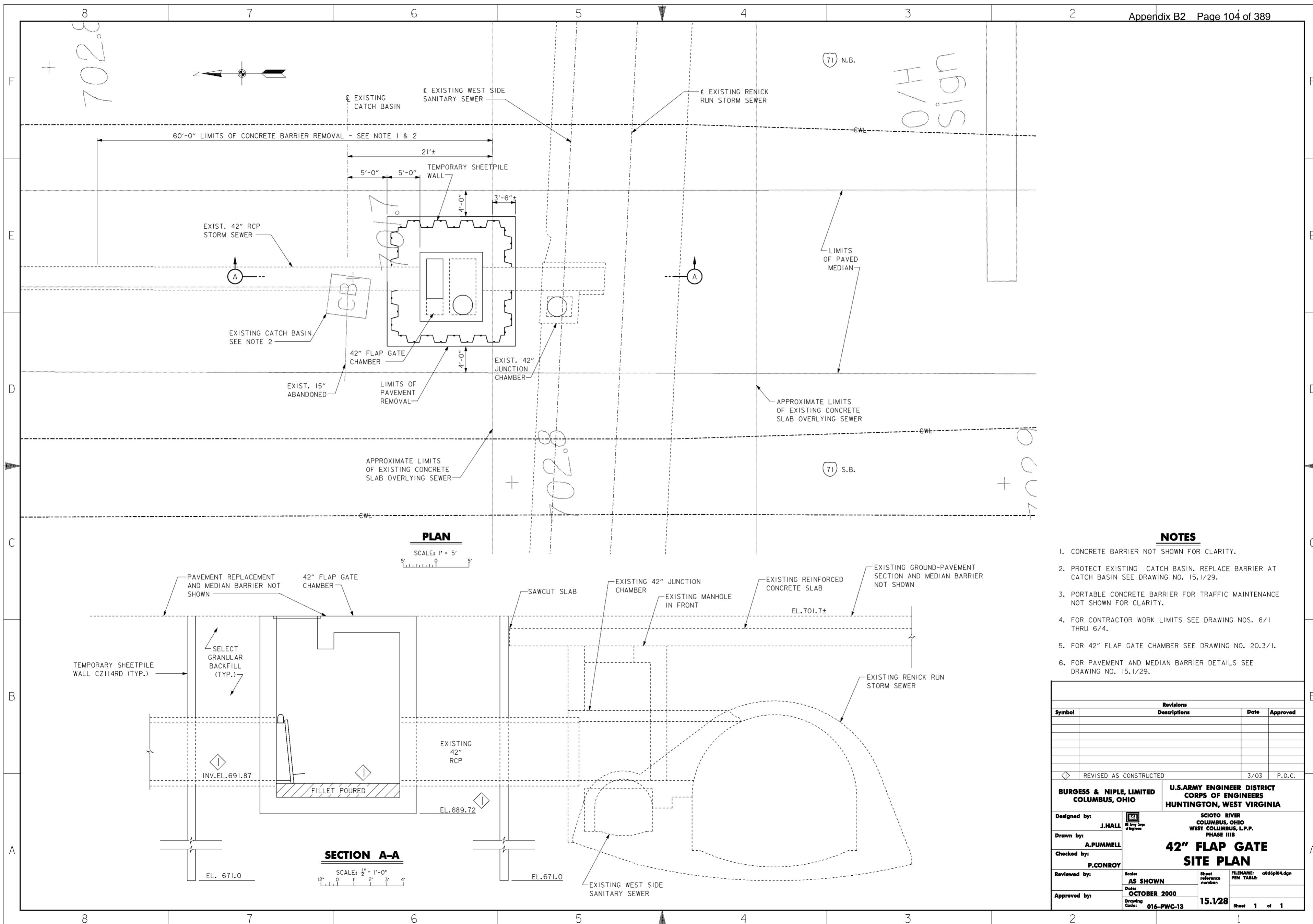
**NOTES**

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
2. FOR 48" SLUICE GATE CHAMBER SEE DRAWING NO.20.3/2.
3. FOR CATCH BASIN DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S132 AND AA-S138.
4. PIPE BEDDING FOR ALL NEW STORM SEWER SHOWN ON THIS SHEET SHALL BE TYPE I. FOR TYPE I BEDDING DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S151 AND AA-S152.
5. FOR TYPE "B" MANHOLE AND DROP PIPE DETAILS SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS AA-S101 AND AA-S110. MH#5 SHALL INCORPORATE AN OUTSIDE DROP CONNECTION FOR THE 12" RCP STORM SEWER FROM THE SOUTH. SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S110.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO Designed by: <b>J.HALL</b> Drawn by: <b>A.PUMMELL</b> Checked by: <b>P.CONROY</b> Reviewed by: Approved by:	<b>U.S.ARMAY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III <b>48" SLUICE GATE</b> <b>PLAN AND PROFILE</b> Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	FILENAME: a06p102.dgn PIN TABLE: Sheet reference number: <b>15.1/27</b> Sheet <b>1</b> of <b>1</b>
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**WORK AS CONSTRUCTED**



**PLAN**  
SCALE: 1" = 5'

**SECTION A-A**  
SCALE: 1/2" = 1'-0"

**NOTES**

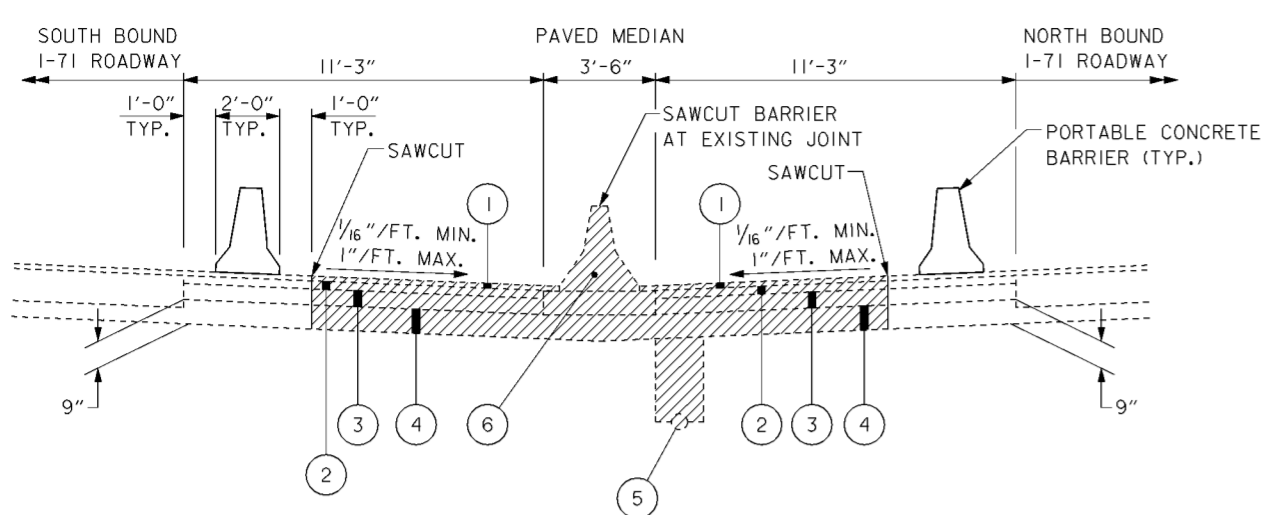
1. CONCRETE BARRIER NOT SHOWN FOR CLARITY.
2. PROTECT EXISTING CATCH BASIN. REPLACE BARRIER AT CATCH BASIN SEE DRAWING NO. 15.1/29.
3. PORTABLE CONCRETE BARRIER FOR TRAFFIC MAINTENANCE NOT SHOWN FOR CLARITY.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
5. FOR 42" FLAP GATE CHAMBER SEE DRAWING NO. 20.3/1.
6. FOR PAVEMENT AND MEDIAN BARRIER DETAILS SEE DRAWING NO. 15.1/29.

Revisions			
Symbol	Descriptions	Date	Approved
◊ REVISED AS CONSTRUCTED		3/03	P.O.C.

Designed by: <b>J.HALL</b> Drawn by: <b>A.PUMMELL</b> Checked by: <b>P.CONROY</b> Reviewed by: <b>AS SHOWN</b> Approved by:	U.S. ARMY ENGINEER DISTRICT CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>42" FLAP GATE                  SITE PLAN</b>
	FILENAME: a06p104.dgn PEN TABLE:
	Sheet reference number: <b>15.1/28</b> Drawing Code: <b>016-PWC-13</b> Sheet <b>1</b> of <b>1</b>

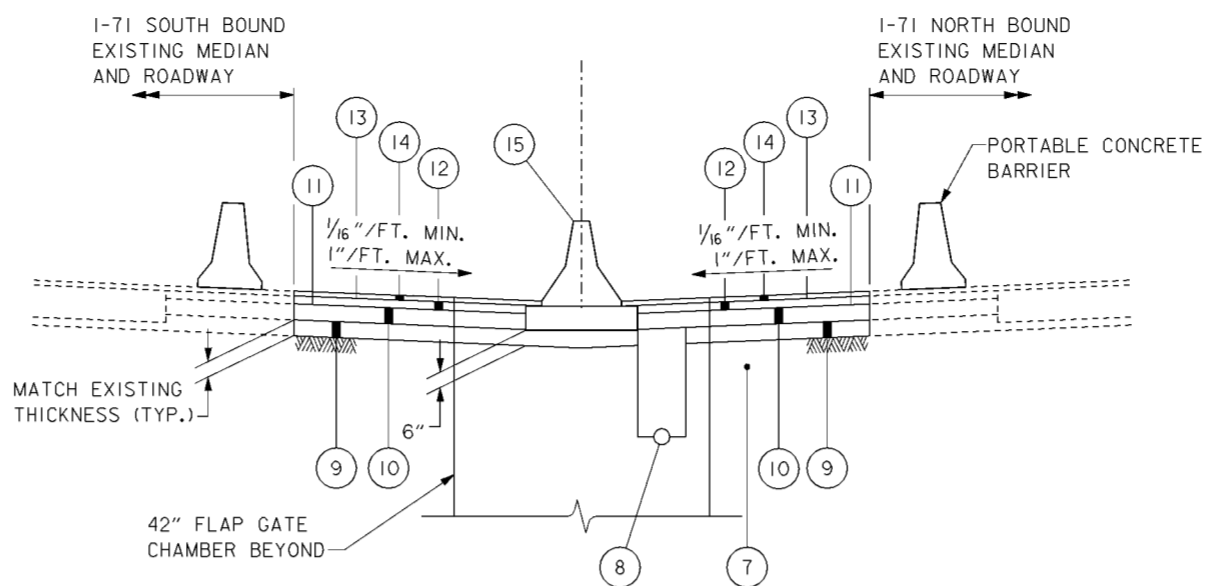
WORK AS CONSTRUCTED





**EXISTING MEDIAN SECTION**

(ODOT RECORD DRAWING FRA-71-11.29)  
SCALE: 1" = 3'



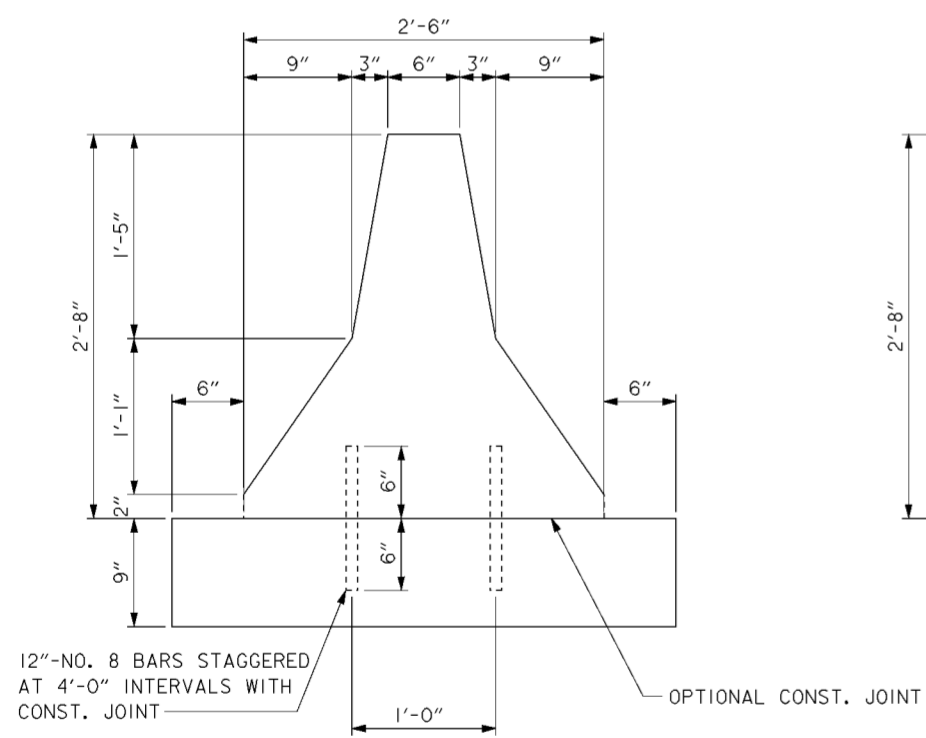
**PAVEMENT REPLACEMENT**

SCALE: 1" = 3'

**NOTES**

1. DISCONTINUE CONCRETE BARRIER BASE AT 42" FLAP GATE CHAMBER. DOWEL BARRIER INTO CHAMBER ROOF.
2. ADJUST ALIGNMENT OF PAVEMENT UNDERDRAIN AROUND 42" FLAP GATE CHAMBER. MAINTAIN POSITIVE DRAINAGE ON UNDERDRAIN.
3. FINISHED GRADE OF ASPHALT CONCRETE TO MATCH TOP ELEVATION OF 42" FLAP GATE CHAMBER.

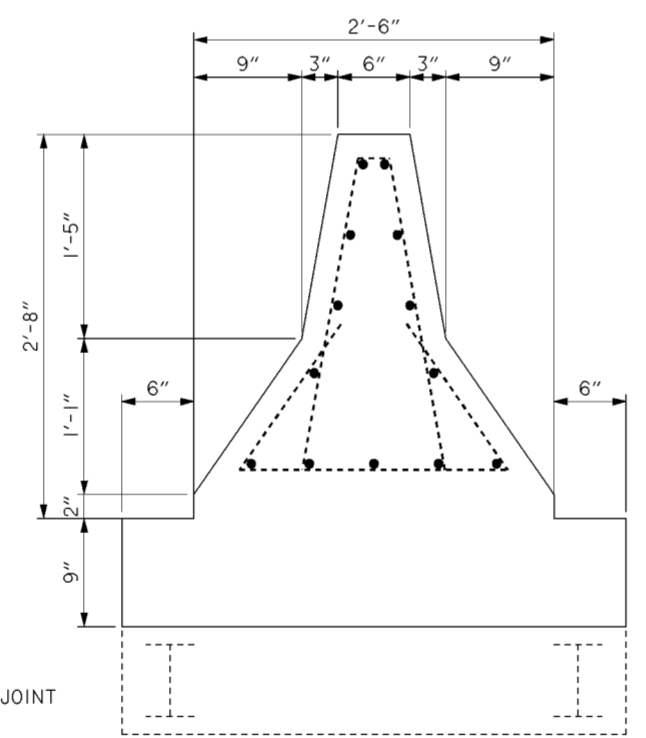
CMSC/ODOT ITEM	
1	ASPHALT CONCRETE OVERLAY
2	301 3" BITUMINOUS AGGREGATE BASE (1973)
3	304 6" AGGREGATE BASE
4	310 SUBBASE
5	605 6" PIPE UNDERDRAINS
6	622 CONCRETE BARRIER WITH 9" CONCRETE BASE
7	203 SUBGRADE COMPACTION
8	605 6" PIPE UNDERDRAINS
9	310 SUBBASE
10	304 6" AGGREGATE BASE
11	408 PRIME COAT
12	301 3" BITUMINOUS AGGREGATE BASE
13	409 TACK COAT
14	404 ASPHALT CONCRETE SURFACE COURSE, MATCH EXISTING THICKNESS
15	622 CONCRETE BARRIER



**CONCRETE BARRIER TYPICAL SECTION**

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

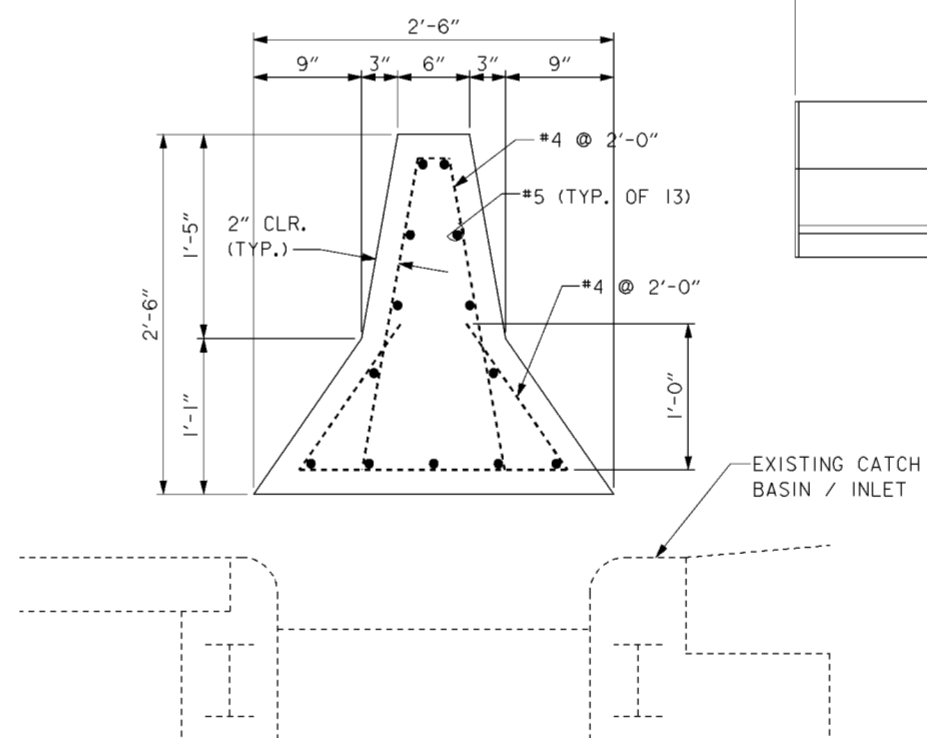
1. ALL CONCRETE TO BE CLASS "C"
2. CONTRACTION JOINTS SHALL BE USED AT 20' INTERVALS FOR CONC. BARRIER, MAXIMUM JOINT OPENING SHALL BE 1" AND SHALL NOT EXTEND INTO BASE.



**SECTION A-A**

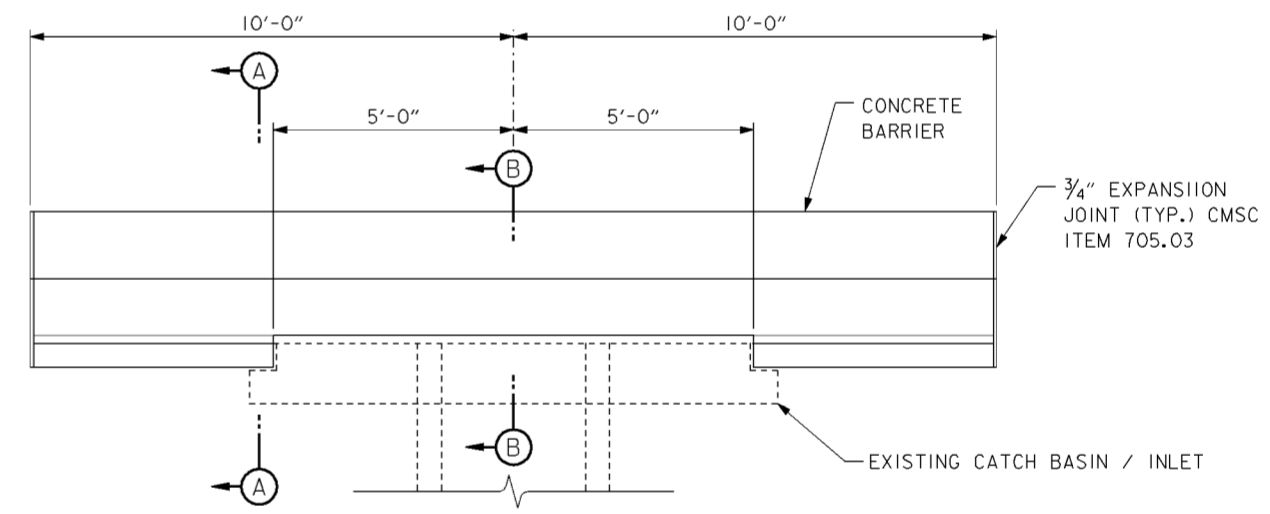
SCALE: 1 1/2" = 1'-0"

NOTE: SEE SECTION B-B FOR REINFORCING



**SECTION B-B**

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



**CONCRETE BARRIER AT MEDIAN INLET**

**ELEVATION**

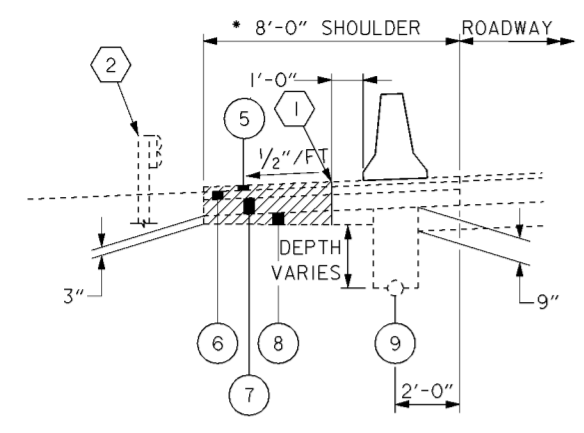
SCALE: 3/4" = 1'-0"

**LEGEND**

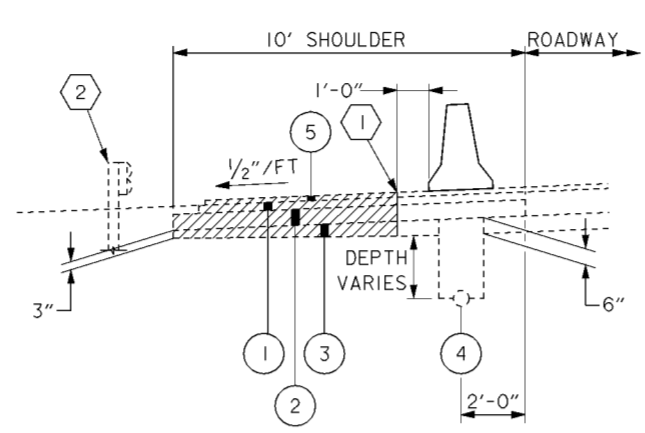
ITEM TO BE REMOVED

Revisions			
Symbol	Descriptions	Date	Approved

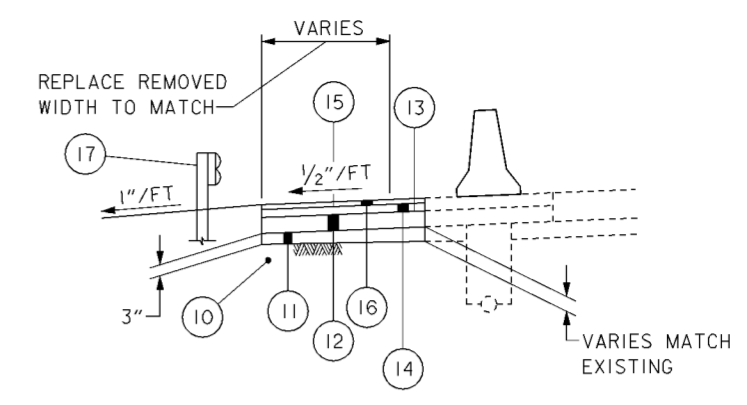
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>42" FLAP GATE</b> <b>MISCELLANEOUS DETAILS</b>	
Designed by: <b>P.CONROY</b>	Drawn by: <b>T.MULLINS</b>	Checked by: <b>R.ROMAN</b>	Reviewed by: <b>AS SHOWN</b>
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.1/29</b>
FILENAME: 00pvc02.dgn		PEN TABLE:	
Sheet 1 of 1		15.1/29	



**EXISTING SECTION**  
 STA. 269+80 TO 283+10  
 (ODOT RECORD DRAWING FRA-71-11.29)  
 \* VARIES FROM 8'-0" AT STA. 273+90 TO 10' AT STA. 283+10  
 SCALE: 1" = 3'



**EXISTING SECTION**  
 STA. 283+10 TO 342+00  
 (ODOT RECORD DRAWING FRA-62-7.29)  
 SCALE: 1" = 3'



**PAVEMENT REPLACEMENT**  
 TYPICAL SECTION  
 SCALE: 1" = 3'

CMSC/ODOT ITEM	CMSC/ODOT ITEM
1 B-219 ASPHALT CONCRETE OVERLAY	10 203 SUBGRADE COMPACTION
2 1-18 6" STABILED CRUSHED AGGREGATE SHOULDERS (1959)	11 310 SUBBASE
3 1-22 SUBBASE (1959)	12 304 6" AGGREGATE BASE
4 1-4 6" PIPE UNDERDRAIN (1959)	13 408 PRIME COAT
5 -- ASPHALT CONCRETE OVERLAY	14 301 3" BITUMINOUS AGGREGATE BASE
6 301 3" BITUMINOUS AGGREGATE BASE (1973)	15 407 TACK COAT
7 304 6" AGGREGATE BASE	16 404 ASPHALT CONCRETE SURFACE COURSE, MATCH EXISTING THICKNESS
8 310 SUBBASE	17 606 GUARDRAIL REBUILT
9 605 6" PIPE UNDERDRAIN (1973)	

**NOTES**

1. THE ESTIMATED QUANTITY FOR ASPHALT CONCRETE SURFACE COURSE WAS CALCULATED BASED ON AN ASSUMED THICKNESS OF 1-1/2 INCHES.
2. FOR GUARDRAIL LOCATIONS SEE DRAWING NOS. 16/2, 16/9, 16/14 THRU 16/17.

**CODED NOTES**

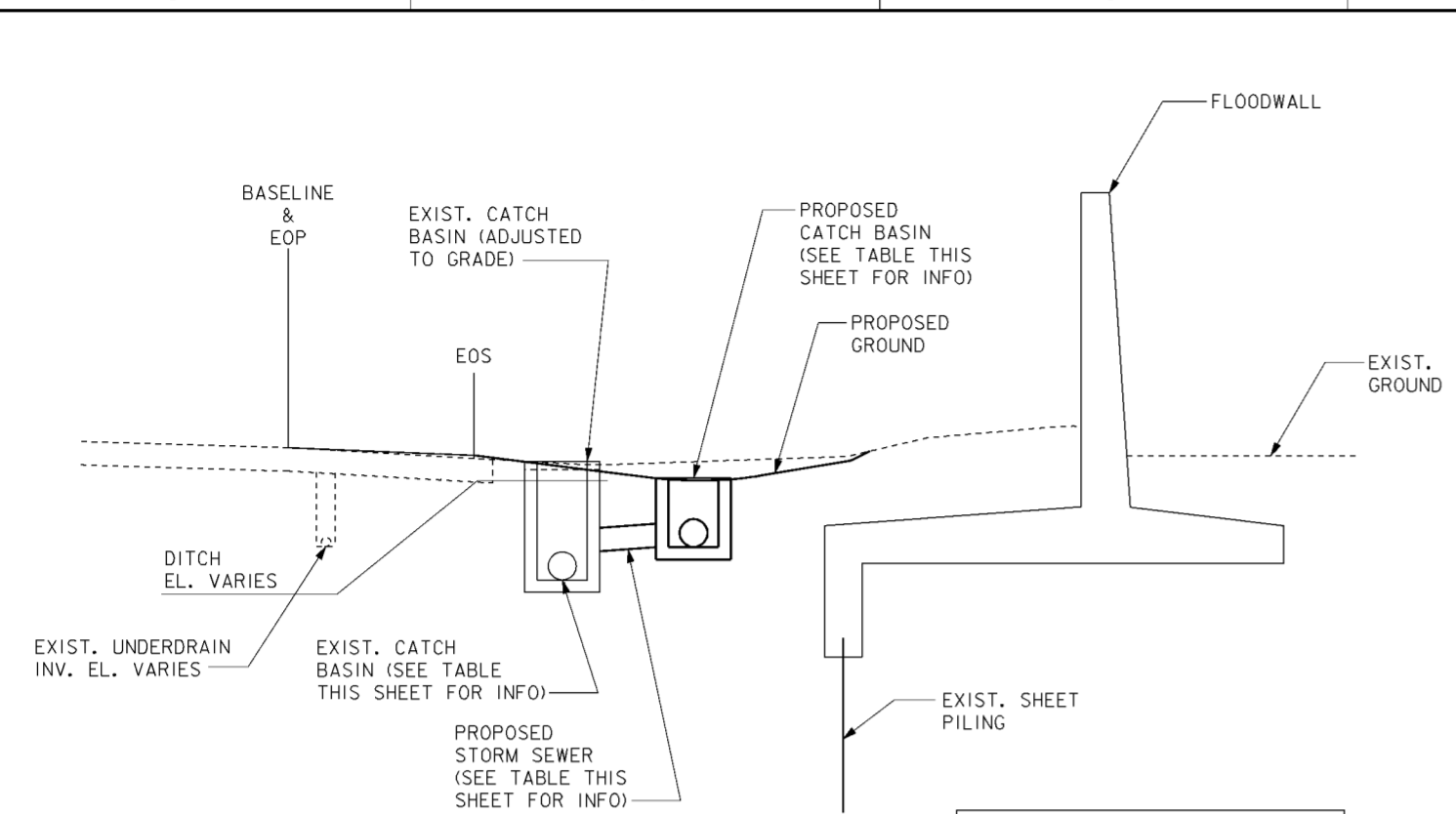
- 1 SAWCUT AND REMOVE PAVEMENT, AGGREGATE BASE AND SUBBASE.
- 2 GUARDRAIL REMOVED TO BE REBUILT. (SEE NOTE 3)

**LEGEND**

ITEM TO BE REMOVED

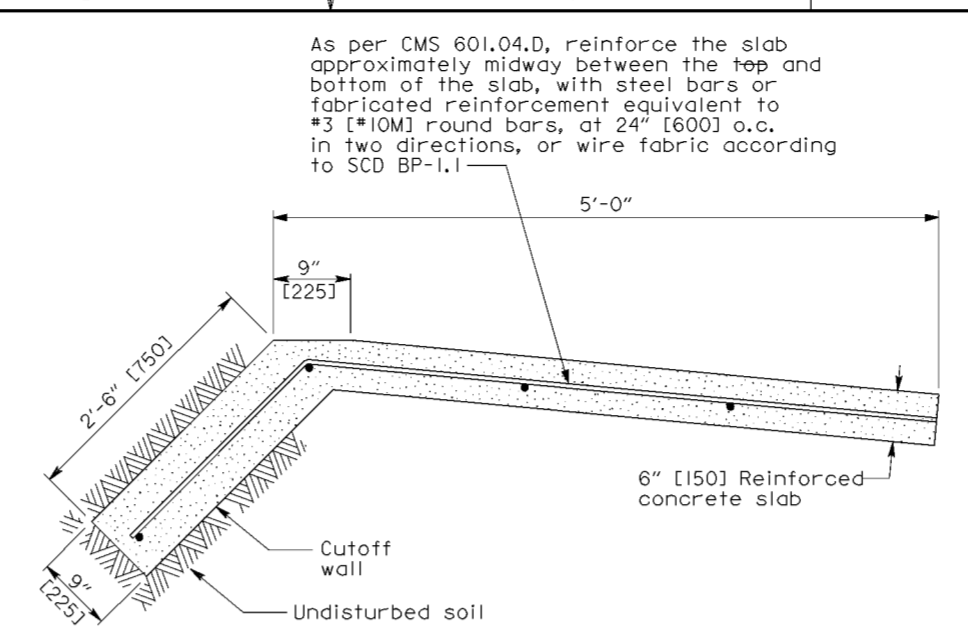
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA	
Designed by: <b>P. CONROY</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>MISCELLANEOUS PAVEMENT DETAILS</b>	
Drawn by: <b>T. MULLINS</b>		
Checked by: <b>R. ROMAN</b>		
Reviewed by:		
Approved by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.1/30</b> FILENAME: 00pvc01.dgn PEN TABLE: Sheet <b>1</b> of <b>1</b>



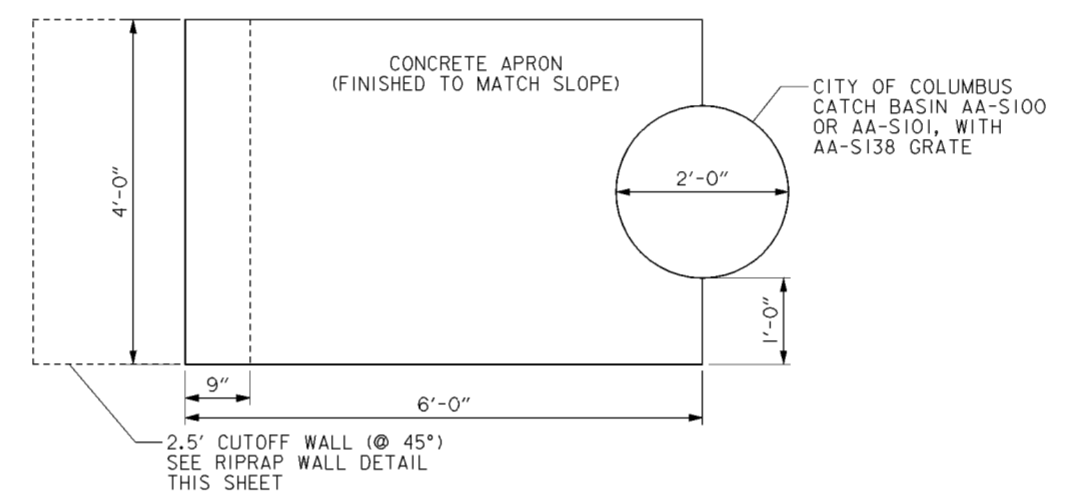
**TYPICAL PROFILE**  
SCALE: 1" = 5'

CONCRETE APRON LOCATION TABLE	
EXISTING CATCH BASIN NO.	PROPOSED CATCH BASIN STATION AND OFFSET
CB#6E	118+03, 13.4' RT.
CB#7E	121+03, 13.7' RT.
CB#8E	124+02, 14.0' RT.
CB#9E	127+02, 14.1' RT.
CB#10E	130+02, 14.0' RT.
CB#11E	133+02, 14.3' RT.
CB#12E	134+87, 14.7' RT.
CB#13E	137+83, 13.8' RT.
CB#14E	140+80, 13.9' RT.
CB#15E	143+80, 14.6' RT.
CB#16E	146+80, 14.0' RT.
CB#17E	149+79, 14.0' RT.
CB#18E	152+78, 14.8' RT.
CB#19E	155+77, 15.5' RT.

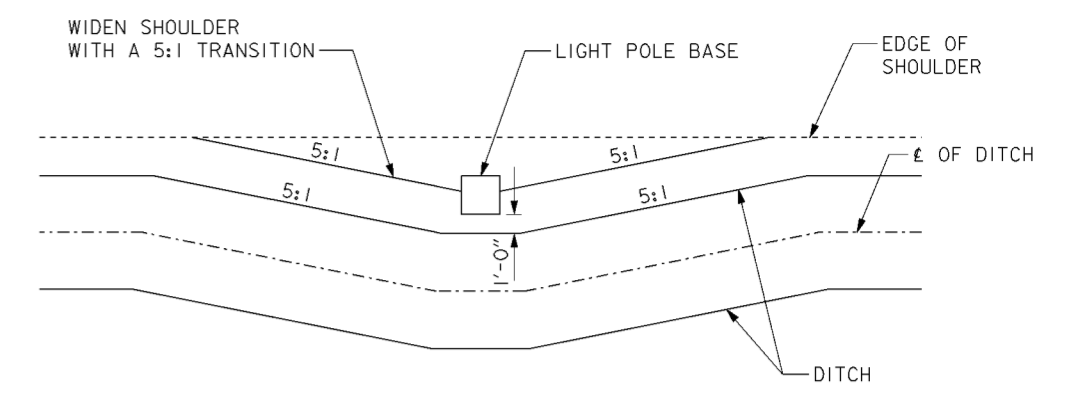


**RIPRAP CUTOFF WALL DETAIL**  
SCALE: NONE

① TYPICAL AT EACH PROPOSED CATCH BASIN NO.8 AS SHOWN BELOW PER ODOT STANDARD DRAWING NO.CB-3.3 DETAIL MODIFIED PER ODOT REQUEST.



**TYPICAL CONCRETE APRON AT EXISTING CATCH BASINS**  
SCALE: NONE



**SHOULDER MEANDER AT LIGHT POLES**

SCALE: 1" = 5'

POLE STATION	BEGIN TRANSITION	END TRANSITION
99+78	99+68±	99+90±
101+59	101+45±	101+71±
103+38	103+28±	103+49±
105+08	104+96±	105+22±
107+59	107+35±	107+81±
109+36	108+98±	109+73±
110+27	109+89±	110+66±
112+27	111+89±	112+64±
114+29	113+87±	114+69±
116+41	116+04±	116+78±

PROPOSED CATCH BASIN NO.	PROPOSED CATCH BASIN STATION AND OFFSET	PROPOSED CATCH BASIN TYPE	PROPOSED CATCH BASIN TOP GRATE EL.	PROPOSED CATCH BASIN INVERT EL.	PROPOSED STORM SEWER (LENGTH, SIZE AND SLOPE)	EXISTING CATCH BASIN/MANHOLE NO. (ADJUSTED TO GRADE)	EXISTING CATCH BASIN/MANHOLE NO. (ADJUSTED TO GRADE) STATION AND OFFSET	EXISTING CATCH BASIN TOP GRATE EL.	EXISTING CATCH BASIN INV. (IN)	EXISTING CATCH BASIN INV. (S)	EXISTING CATCH BASIN INV. (W)	RIPRAP CUTOFF WALL DETAIL
NCB#1	100+30, 11.26' RT.	CB2-2-B	704.12	702.52	(EXISTING STORM)	-	-	-	-	-	-	-
NCB#2	102+85, 17.69' RT.	CB8	705.64	703.13	15' - 12" @ 0.0027':1'	CB#1E	103+03, 10.4' RT.	706.96	-	702.95	703.09	NO
NCB#3	106+02, 18.11' RT.	CB8	704.71	702.23	99' - 12" @ 0.0134':1'	MH#1E	105+04, 27.0' RT.	708.61	-	700.90	-	NO
NCB#4	114+66, 19.96' RT.	CB8	702.54	695.0±	(EXISTING STORM)	-	-	-	-	-	-	NO
NCB#5	121+04, 22.35' RT.	CB8	701.15	697.57	8' - 15" @ 0.0200':1'	CB#7E	121+03, 14.8' RT.	702.08	695.91	695.91	697.41	YES
NCB#6	127+04, 22.72' RT.	CB8	700.66	694.16	10' - 15" @ 0.0200':1'	CB#9E	127+03, 13.3' RT.	702.05	693.88	693.88	693.96	YES
NCB#7	134+87, 27.75' RT.	CB8	700.64	694.62	9' - 15" @ 0.0200':1'	CB#12E	134+87, 14.0' RT.	701.00	692.27	-	694.44	YES
NCB#8	139+73, 20.94' RT.	CB8	700.90	698.01								YES
						CB#14E	140+81, 13.9' RT.	701.91	697.51	697.26	-	-
NCB#9	143+80, 21.04' RT.	CB8	700.87	697.87	7' - 15" @ 0.0714':1'	CB#15E	143+81, 14.6' RT.	701.97	696.27	696.02	697.37	YES
NCB#10	146+83, 19.66' RT.	CB8	701.08	696.0	7' - 15" @ 0.0714':1'	CB#16E	146+81, 14.0' RT.	702.18	695.24	694.99	695.5	YES
						CB#17E	149+79, 14.0' RT.	702.21	694.04	694.10	-	-
NCB#11	152+76, 22.39' RT.	CB8	700.92	694.25	7' - 15" @ 0.0714':1'	CB#18E	152+78, 14.8' RT.	701.37	693.47	-	693.75	YES
						MH#3E	153+65, 24.0' RT.	702.81	692.34	693.95	692.34	-
NCB#12	158+74, 21.81' RT.	CB8	700.61	698.30	7' - 15" @ 0.0714':1'	CB#20E	158+76.40, 15.5' RT.	702.50	698.32	698.07	698.25	NO
NCB#13	161+76, 19.66' RT.	CB8	702.03	699.0	5' - 15" @ 0.200':1'	CB#21E	161+74.86, 15.0' RT.	702.98	697.07	697.07	698.0	NO
NCB#14	167+79, 21.09' RT.	CB8	705.60	700.0	5' - 15" @ 0.200':1'	CB#23E	167+72.30, 22.1' RT.	707.54	694.79	694.79	699.0	NO
						MH#5E	170+66.20, 15.0' RT.	712.80	693.09	707.33	-	-
NCB#15	171+13, 16.47' RT.	CB8	711.11	708.0	5' - 15" @ 0.020':1'	CB#24E	171+12.66, 16.4' RT.	712.55	707.88	-	707.9	NO

Revisions			
Symbol	Descriptions	Date	Approved
Ⓢ	REVISED AS CONSTRUCTED	6/04	P.O.C.
Ⓢ	ADDED BY CONTRACT MODIFICATION LETTER MC049	5/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>B. MOORE</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T. MULLINS</b>	<b>PROFILES AND MISC. DETAILS</b>
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>15.1/31</b>
	FILENAME: PIN TABLE: aod1d101.dgn
	Sheet <b>1</b> of <b>1</b>

**ITEM 606 - GUARDRAIL, TYPE 5**

ALL TYPE-5 GUARDRAIL CALLED OUT ON THE PLANS SHALL CONFORM TO ALL THE REQUIREMENTS OF THE ODOT CMS 606. IN ADDITION, THE GUARDRAIL POSTS BETWEEN STA.158+09 AND STA.161+75 SHALL BE SET TO A DEPTH OF 2.41- FEET AND SHALL BE ENCASED IN A MINIMUM OF 4-INCHES OF CONCRETE. SEE ODOT SCD GR-2.2M FOR DETAILS ON ENCASING A GUARDRAIL POST IN CONCRETE. AT THE CONTRACTING OFFICERS DISCRETION WITHIN THE ABOVE REFERENCED STATION LIMITS, THE CONTRACTOR SHALL LOCATE AND CAREFULLY EXPOSE ALL OR PORTIONS OF THE EXISTING STORM SEWER AND ASSOCIATED DRAINAGE STRUCTURES ADJACENT TO THE PROPOSED GUARDRAIL.

**ITEM SPECIAL - CONDUIT INSPECTION**

THE 12" AND 15" CONDUIT (STORM SEWER) LOCATED BETWEEN STA.158+09 AND 161+75 SHALL BE INSPECTED USING VIDEO TO DETERMINE IF THE CONDUIT WAS DAMAGED DURING THE INSTALLATION OF ITEM 606-GUARDRAIL, TYPE 5. THE VIDEO SHALL INCLUDE STATION ALONG THE PIPE RELATIVE TO THE ROADWAY BASELINE AND THE VIDEO SHALL BE PROVIDED TO THE CONTRACTING OFFICER WHO WILL SUBMIT IT TO ODOT DISTRICT 6 TO THE ATTENTION OF THE DISTRICT HYDRAULIC MANAGER.

IF IT HAS BEEN DETERMINED THAT EITHER THE 12" AND/OR 15" CONDUIT HAS BEEN DAMAGED AND REQUIRES REPLACEMENT, THE CONTRACTING OFFICER SHALL BE NOTIFIED. THE REPLACEMENT CONDUIT SHALL BE PLACED IN THE CENTER OF THE DITCH.

**ITEM 606 - ANCHOR ASSEMBLY REBUILT, TYPE E-98**

IF THE ANCHOR ASSEMBLY BETWEEN STA.164+59+/- AND 165+09+/- WAS SALVAGED DURING CONSTRUCTION OF THE FLOODWALL, THEN IF DIRECTED BY THE CONTRACTING OFFICER, USE THIS SALVAGED ANCHOR ASSEMBLY IN PLACE OF THE TYPE-E98 AS SHOWN IN THE PLANS.

THE WORK OF THIS ITEM SHALL CONFORM TO ITEM 606 OF ODOT'S CMS.

IF THE CONTRACTING OFFICER DETERMINES THAT THE ANCHOR ASSEMBLY BETWEEN STA.164+59+/- AND 165+09+/- CANNOT BE USED AT THE LOCATION AS SHOWN IN THE PLANS, THEN ITEM 606 - ANCHOR ASSEMBLY, TYPE E-98 SHALL BE USED.

**ITEM 606 - ANCHOR ASSEMBLY REBUILT, TYPE E-98**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS:

1) THE ET-2000 (1997) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373) OR APPROVED EQUAL.

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50'-0" (15.24m), INCLUSIVE OF TWO 25'-0" (7.62m) LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NO.	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SS265M	ET-2000 (1997) PLAN, ELEVATION & SECTIONS	6/20/97	3/6/98
SSI42	ET-2000 PLUS 50'-0" PLAN, ELEVATION & SECTION 25'-0" RAIL, SLEEVE W/ PL POSTS 1-4	4/12/00	7/31/00
SSI41	ET-2000 PLUS PLAN, ELEVATION & SECTION 25'-0" RAIL, HBA POSTS 1-4	2/29/00	7/31/00
SSI58	ET-2000 PLUS 50'-0" WITH 12'-6" PANELS & HBA POSTS 1-4 PLAN, ELEVATION & SECTION	5/22/00	7/31/00

2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC. 2516 MALLORY LANE, STOW, OHIO, 44224 (TELEPHONE: 330-346-0721) OR APPROVED EQUAL.

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0" (15.24m), INCLUSIVE OF FOUR 12'-6" (3.81m) LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NO.	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SKT-4M	SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES	12/11/97	3/6/98

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18"x18" (450m x 450m).

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUT STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES (100mm) ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27-3/4-INCHES (706mm) FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES NOT PROJECT MORE THAN 4-INCHES (100mm) ABOVE THE GROUND LINE.

**CROSSINGS AND CONNECTIONS TO EXISTING PIPES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE CONTRACTING OFFICER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER IF CONSTRUCTED AS SHOWN ON THE PLAN, THE CONTRACTING OFFICER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

IF THE EXISTING 15" CONDUIT AT STA.114+66 IS FOUND TO BE DAMAGED, REPLACE THE LENGTH OF PIPE AS NEEDED AND PLACE A NEW MANHOLE AT LOCATION OF PIPE INTERSECTION STA.114+66 IF NECESSARY.

**CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL**

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M 180.

**MANHOLE AND CATCH BASIN ADJUSTED TO GRADE**

EXISTING MANHOLE AND CATCH BASIN COVERS SHALL BE REMOVED AND A METAL ADJUSTING RING OR CASTING SHALL BE INSTALLED AND ADJUSTED VERTICALLY SO THAT THE COVERS ARE FLUSH WITH THE GRADE OF THE PROPOSED GROUND.

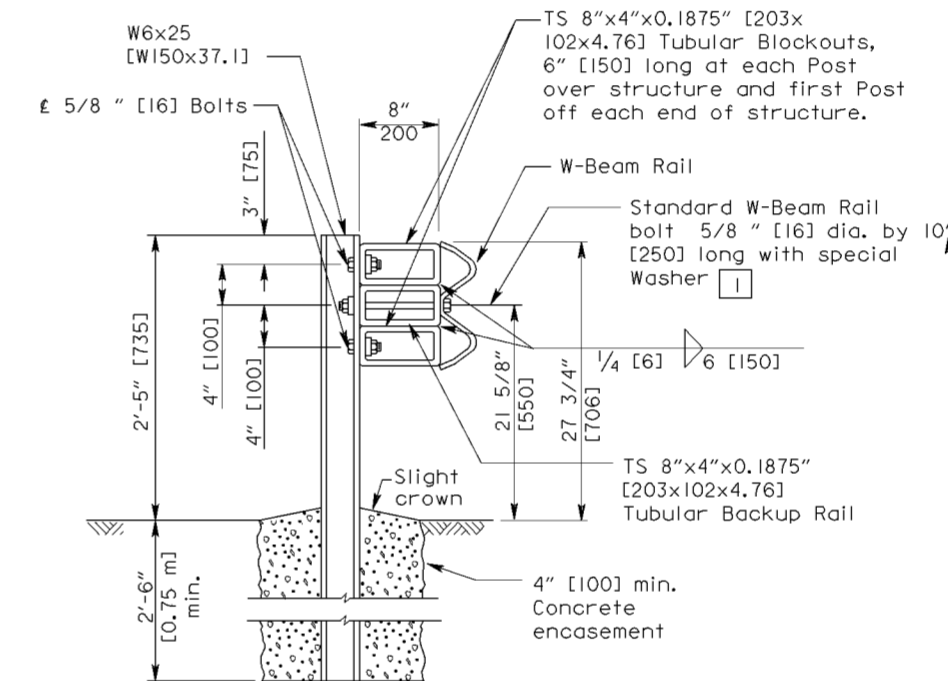
**TRENCH BACKFILL**

BACKFILL TRENCHES RESULTING FROM THE REMOVAL OF PIPE AND CATCH BASINS WITH GRANULAR BACKFILL TYPE 1 OR 2 PER ODOT 703.11.

**ODOT STANDARD CONSTRUCTION DRAWINGS (SCD'S)**

THE FOLLOWING SCD'S HAVE BEEN REFERENCED THROUGHOUT THE PLANS:

DRAWING NO.	DATE
CB-1.1	7/19/02
CB-3.3	7/19/02
DM-1.1	7/19/02
DM-1.4	7/19/02
DM-4.3	7/19/02
DM-4.4	7/19/02
GR-1.1M	10/21/97
GR-1.2M	1/3/96
GR-1.3M	11/30/94
GR-2.1M	4/14/98
GR-2.2M	10/21/97

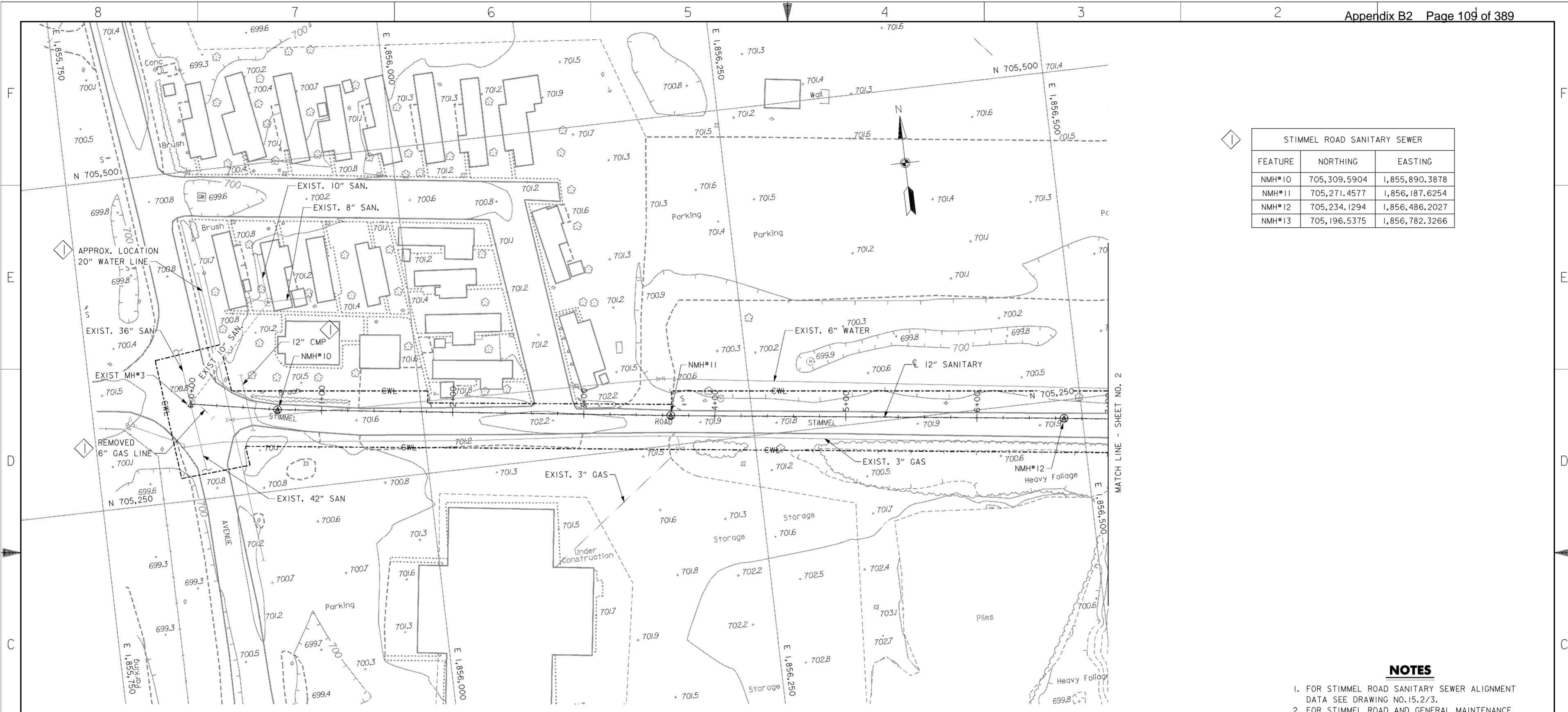


COVER DEPTH EQUAL TO OR GREATER THAN 2'-6" [0.75 m], BUT LESS THAN 3'-5" [1.04 m]

**METHOD OF ANCHORING POSTS**

SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved
BURGESS & NIPLE, LIMITED COLUMBUS, OHIO U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA Designed by: B. MOORE Drawn by: T. MULLINS Checked by: M. HEMMERICH Reviewed by:      Scale: NONE Date: OCTOBER 2000 Approved by:      Drawing Code: 016-PWC-13      Sheet reference number: 15.1/32      FILENAME: aad1gn01.dgn      PIN TABLE:      Sheet 1 of 1			

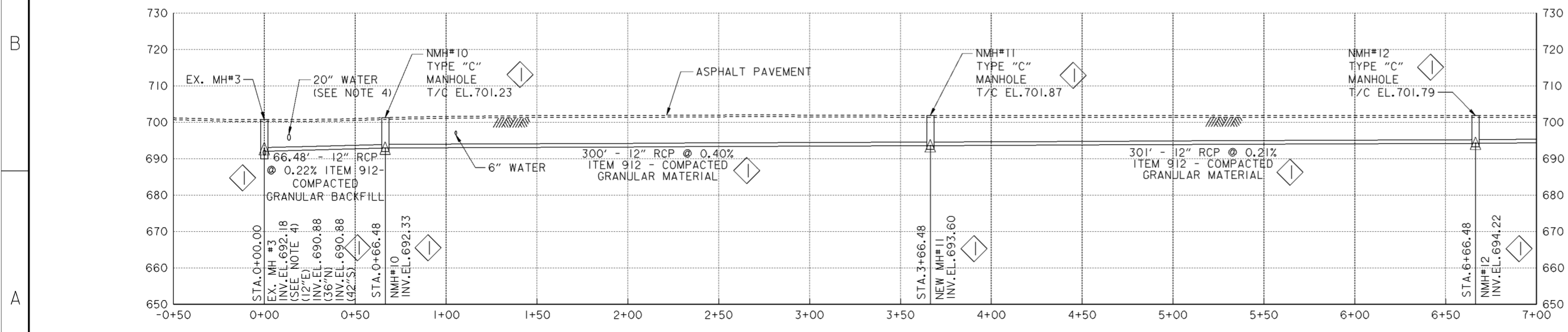


STIMMEL ROAD SANITARY SEWER		
FEATURE	NORTHING	EASTING
NMH#10	705,309.5904	1,855,890.3878
NMH#11	705,271.4577	1,856,187.6254
NMH#12	705,234.1294	1,856,486.2027
NMH#13	705,196.5375	1,856,782.3266

**NOTES**

1. FOR STIMMEL ROAD SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO.15.2/3.
2. FOR STIMMEL ROAD AND GENERAL MAINTENANCE OF TRAFFIC NOTES SEE DRAWING NO.0/4.
3. FOR PAVEMENT REMOVAL AND REPLACEMENT SEE CITY OF COLUMBUS STANDARD DRAWING NO.1441 DR.A.
4. PROVIDE MINIMUM 18" CLEARANCE BETWEEN 20" WATER LINE AND NEW 12" WATER LINE. SLOPE OF SANITARY SEWER MAY BE ADJUSTED BUT A MINIMUM OF 0.22% MUST BE MAINTAINED.

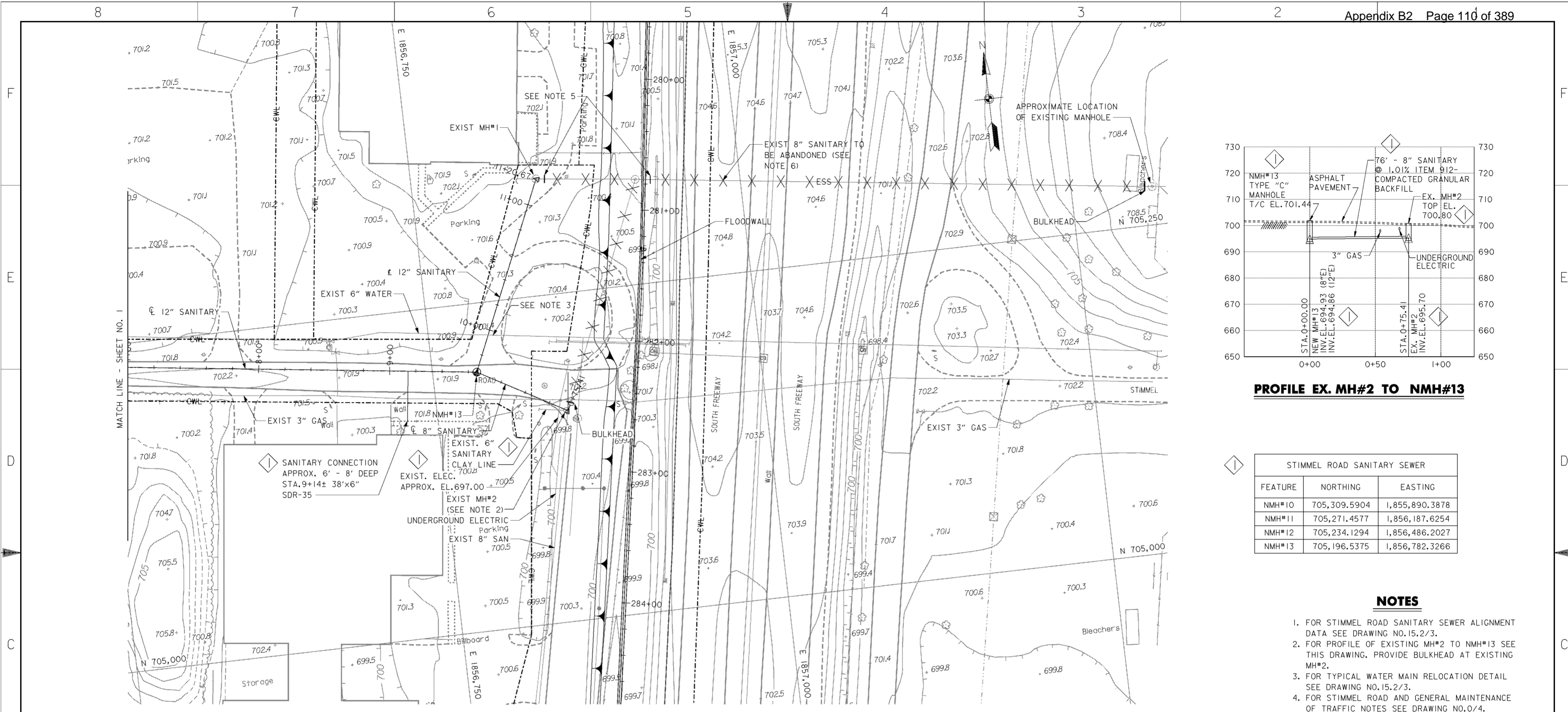
**PLAN**  
SCALE: 1" = 30'



**PROFILE**

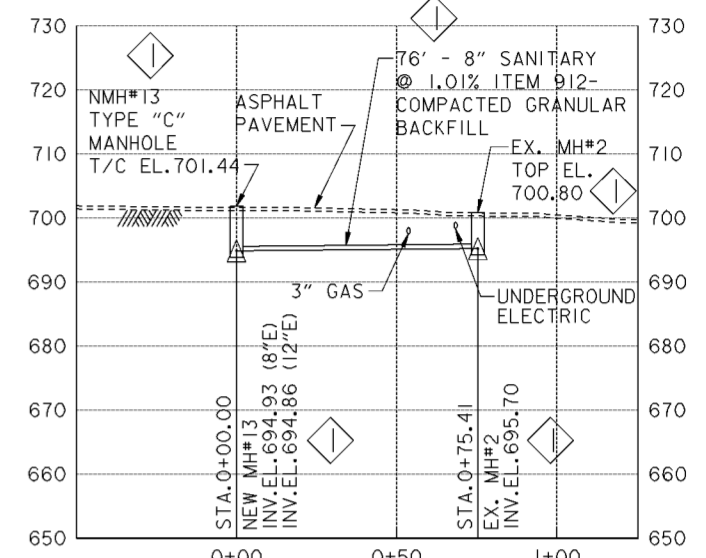
Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO Designed by: <b>P.CONROY</b> Drawn by: <b>T.MULLINS</b> Checked by: <b>B.GARRETT</b> Reviewed by: Approved by:	<b>U.S.ARMAY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III <b>STIMMEL ROAD</b> <b>SAN. SEWER (1 OF 2)</b> Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.2/1</b> FILENAME: <b>016pp01.dgn</b> PEN TABLE: Sheet <b>1</b> of <b>2</b>
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**PLAN**

SCALE: 1" = 30'



**PROFILE EX. MH#2 TO NMH#13**

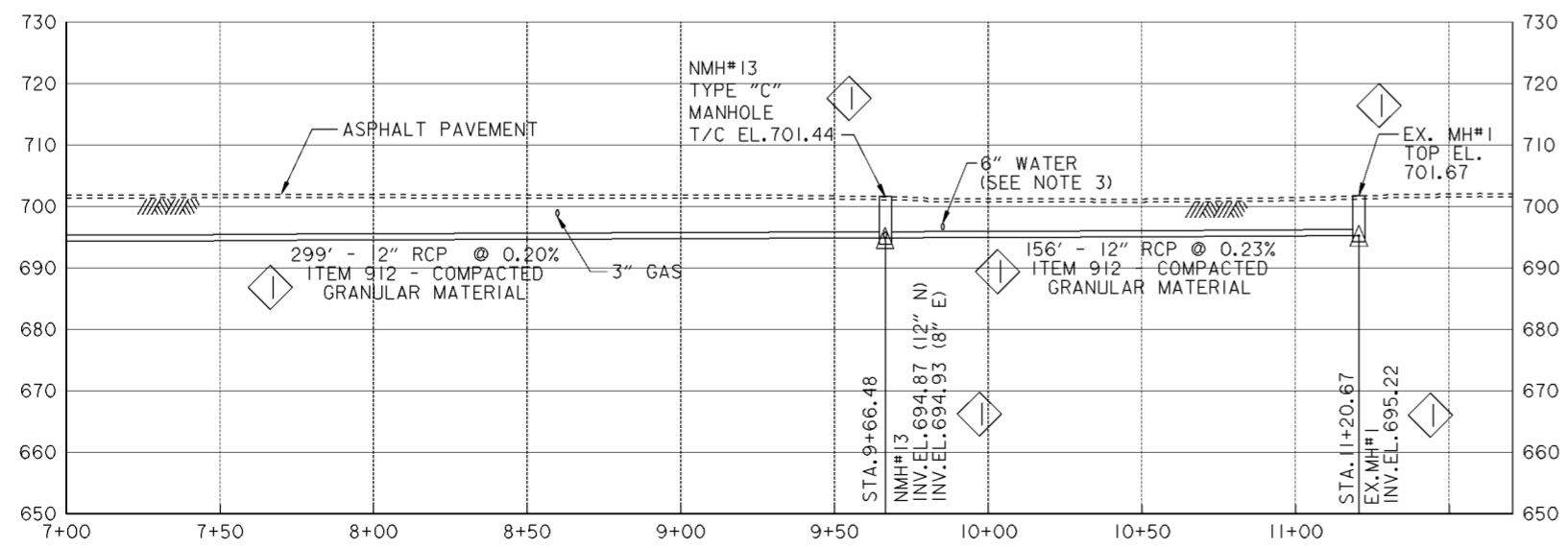
STIMMEL ROAD SANITARY SEWER		
FEATURE	NORTHING	EASTING
NMH#10	705,309.5904	1,855,890.3878
NMH#11	705,271.4577	1,856,187.6254
NMH#12	705,234.1294	1,856,486.2027
NMH#13	705,196.5375	1,856,782.3266

**NOTES**

- FOR STIMMEL ROAD SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO. 15.2/3.
- FOR PROFILE OF EXISTING MH#2 TO NMH#13 SEE THIS DRAWING. PROVIDE BULKHEAD AT EXISTING MH#2.
- FOR TYPICAL WATER MAIN RELOCATION DETAIL SEE DRAWING NO. 15.2/3.
- FOR STIMMEL ROAD AND GENERAL MAINTENANCE OF TRAFFIC NOTES SEE DRAWING NO. 0/4.
- PROVIDE BULKHEAD AT EXISTING MH#1 AND REMOVE PORTION OF EXISTING 8" SANITARY SEWER UNDER FLOODWALL. BULKHEAD EXISTING 8" SANITARY SEWER EAST OF FLOODWALL AFTER REMOVAL.
- EX. 8" SANITARY SEWER TO BE FILLED IN PLACE TO FIRST MANHOLE EAST OF FREEWAY.
- FOR PAVEMENT REMOVAL AND REPLACEMENT SEE CITY OF COLUMBUS STANDARD DRAWING NO. 1441 DR.A.

**LEGEND**

X X X - LINE TO BE ABANDONED / REMOVED



**PROFILE**

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>P.CONROY</b> Drawn by: <b>T.MULLINS</b> Checked by: <b>B.GARRETT</b> Reviewed by: _____ Approved by: _____	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>STIMMEL ROAD</b> <b>SAN. SEWER (2 OF 2)</b> Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.2/2</b> FILENAME: <b>016pp02.dgn</b> PIN TABLE: Sheet <b>2</b> of <b>2</b>
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HORIZONTAL ALIGNMENT DATA FOR SCIOTO MAIN SANITARY SEWER

STATION	EAST(X)	NORTH(Y)
24+00.00	1855306.3730	698408.8420
24+51.53	1855336.7600	698450.4600
30+00.00	1855628.4330	698914.9440

74+80.00	1856157.5280	703109.0660
75+00.82	1856158.2369	703129.8707
75+27.99	1856147.7295	703154.9280

HORIZONTAL ALIGNMENT DATA FOR WEST SIDE SANITARY SEWER

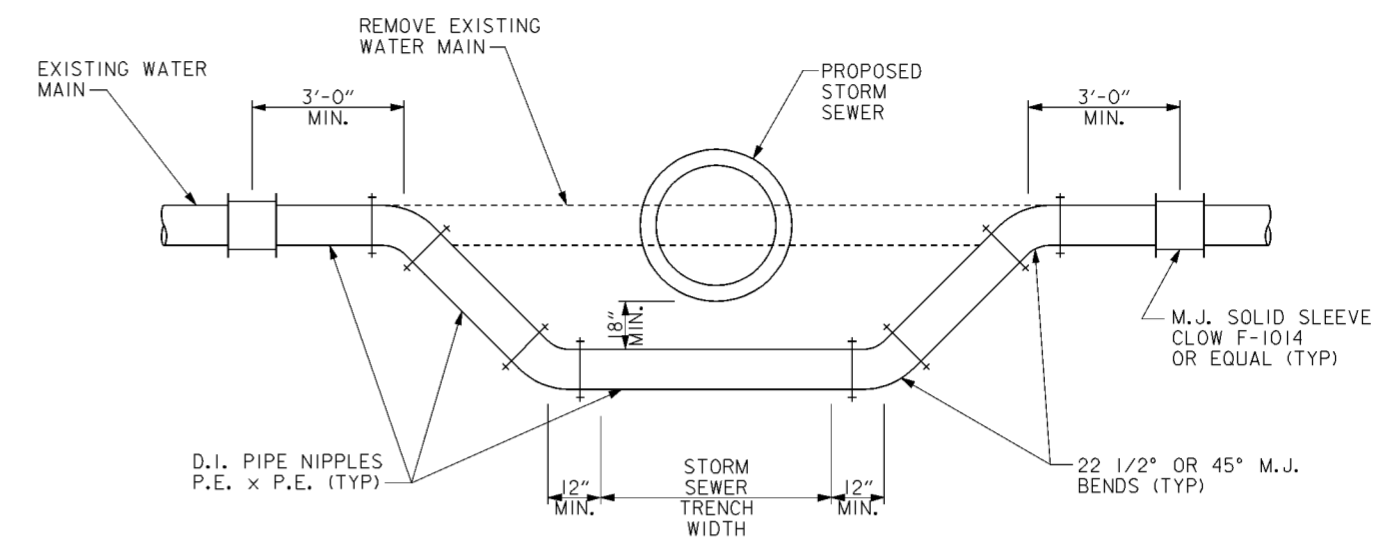
STATION	EAST(X)	NORTH(Y)
0+00.00	1856143.5490	703234.2830
0+58.70	1856160.9120	703290.3570
1+00.59	1856173.3040	703330.3790
6+03.09	1855973.6590	703791.5110

HORIZONTAL ALIGNMENT DATA FOR STIMMEL ROAD 12-INCH SANITARY SEWER

STATION	EAST(X)	NORTH(Y)
0+00.00	1855825.4520	705323.4070
0+66.48	1855890.8660	705311.5290
3+66.48	1856188.3380	705272.6690
6+66.48	1856486.0990	705236.0880
9+66.48	1856783.6150	705197.5640
11+20.67	1856845.3060	705338.8690

HORIZONTAL ALIGNMENT DATA FOR STIMMEL ROAD 8-INCH SANITARY SEWER

STATION	EAST(X)	NORTH(Y)
0+00.00	1856783.6150	705197.5640
0+75.41	1856849.2610	705160.4440



**NOTES**

1. ALL BENDS SHALL BE SECURED BY RETAINING GLANDS, RODDING OR OTHER METHODS APPROVED BY THE CONTRACTING OFFICER TO RESTORE MAIN TO SERVICE AS SOON AS POSSIBLE.
2. ALL EXPOSED STEEL (BOLTS, RODS, ETC.) SHALL BE COATED WITH A MINIMUM OF TWO COATS OF BITUMINOUS MATERIAL.


**TYPICAL WATER MAIN RELOCATION ELEVATION**

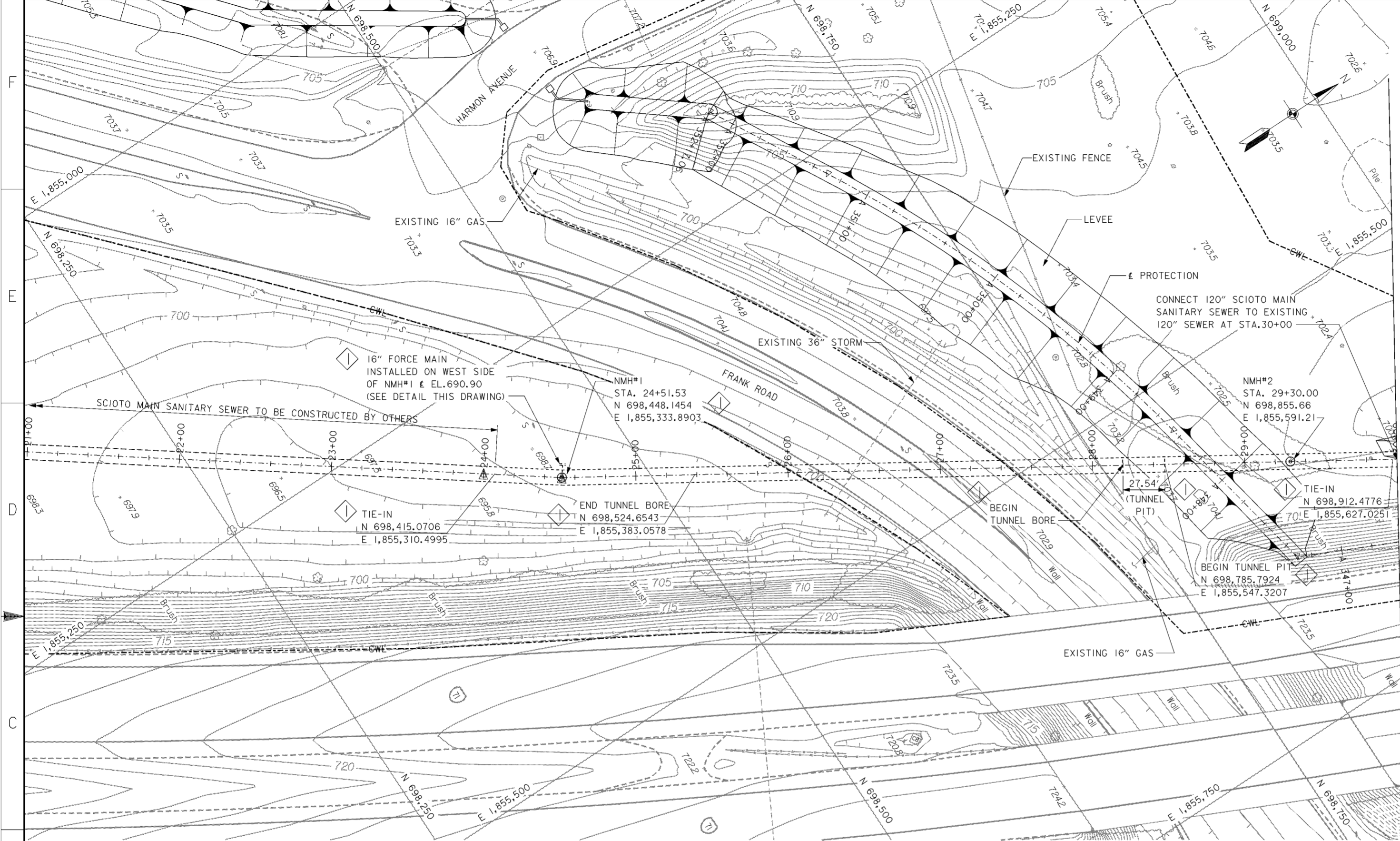
SCALE: NONE

**NOTES**

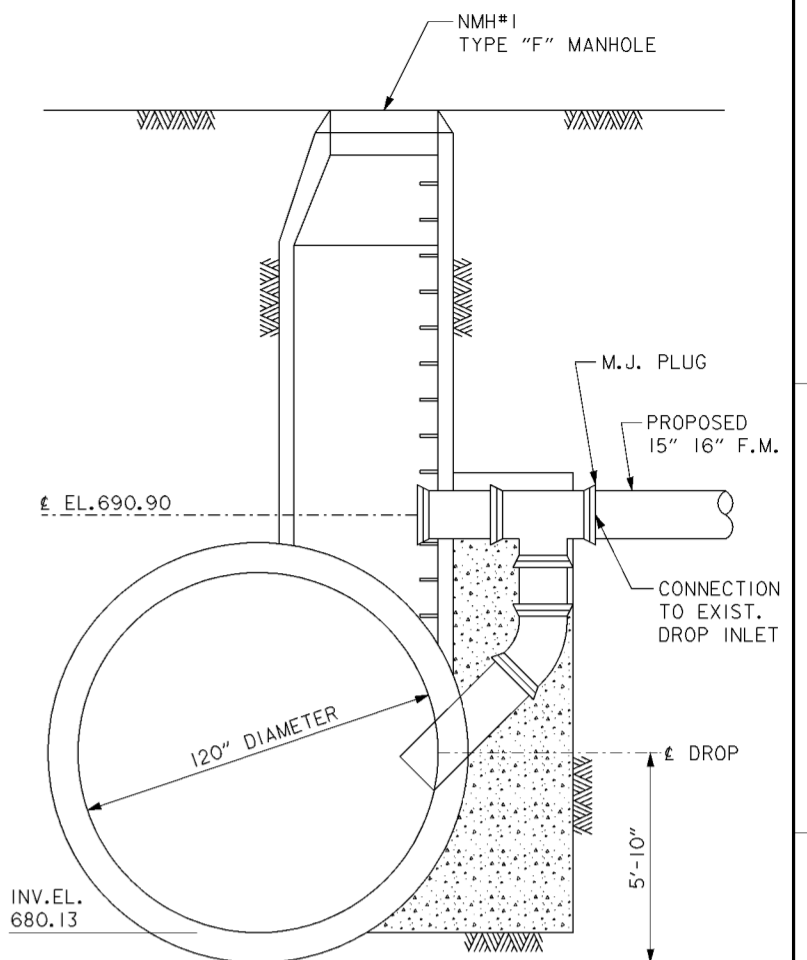
1. FOR STIMMEL ROAD SANITARY SEWER PLAN AND PROFILES SEE SEE DRAWING NOS.15.2/1 AND 15.2/2.
2. FOR SCIOTO MAIN SANITARY SEWER PLAN AND PROFILES SEE DRAWING NOS.15.2/4 THRU 15.2/10.
3. FOR WEST SIDE SANITARY SEWER PLAN AND PROFILE SEE DRAWING NO.15.2/11.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>P. CONROY</b>	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>SANITARY SEWERS</b> <b>HORZ. ALIGNMENTS</b>	
Drawn by: <b>T. MULLINS</b>		
Checked by: <b>B. GARRETT</b>		
Reviewed by:		
Approved by:	Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.2/3</b> FILENAME: 004m01.dgn PEN TABLE: Sheet <b>1</b> of <b>1</b>



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

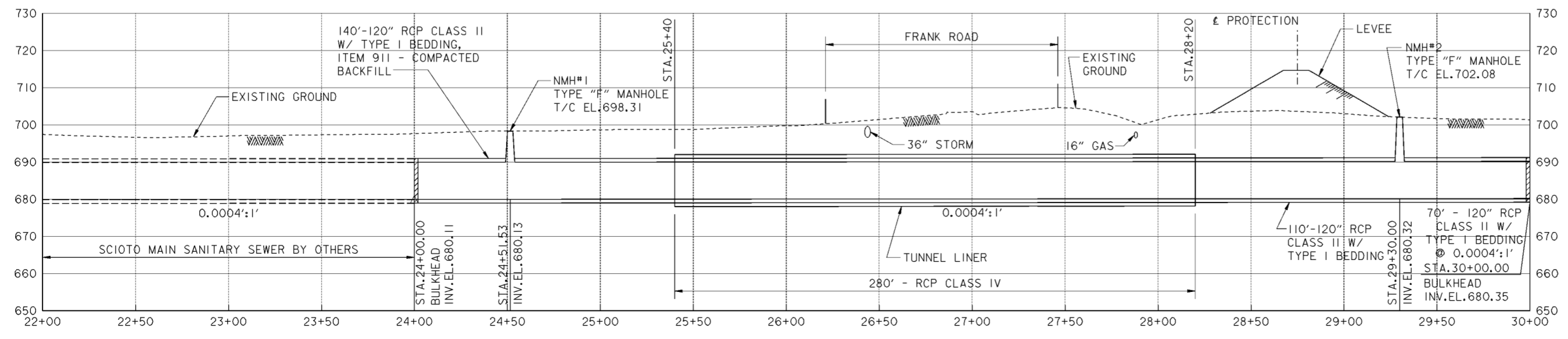


**FORCE MAIN CONNECTION AT NMH#1**

SCALE: 3/8" = 1'-0"  
0 1 2 3 4 5 6

**NOTES**

1. FOR SCIOTO MAIN SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO. 15.2/3
2. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/17 AND 16/18.
3. FOR CROSS SECTIONS SEE DRAWING NOS. 16/47 AND 16/48.
4. FOR FRANK ROAD TUNNEL CROSSING DETAILS SEE DRAWING NOS. 20.3/8 AND 20.3/9.
5. ALL MANHOLE CASTINGS ON 120" SANITARY SEWER SHALL BE NEENAH R-1916-H, EAST JORDAN OR EQUAL.

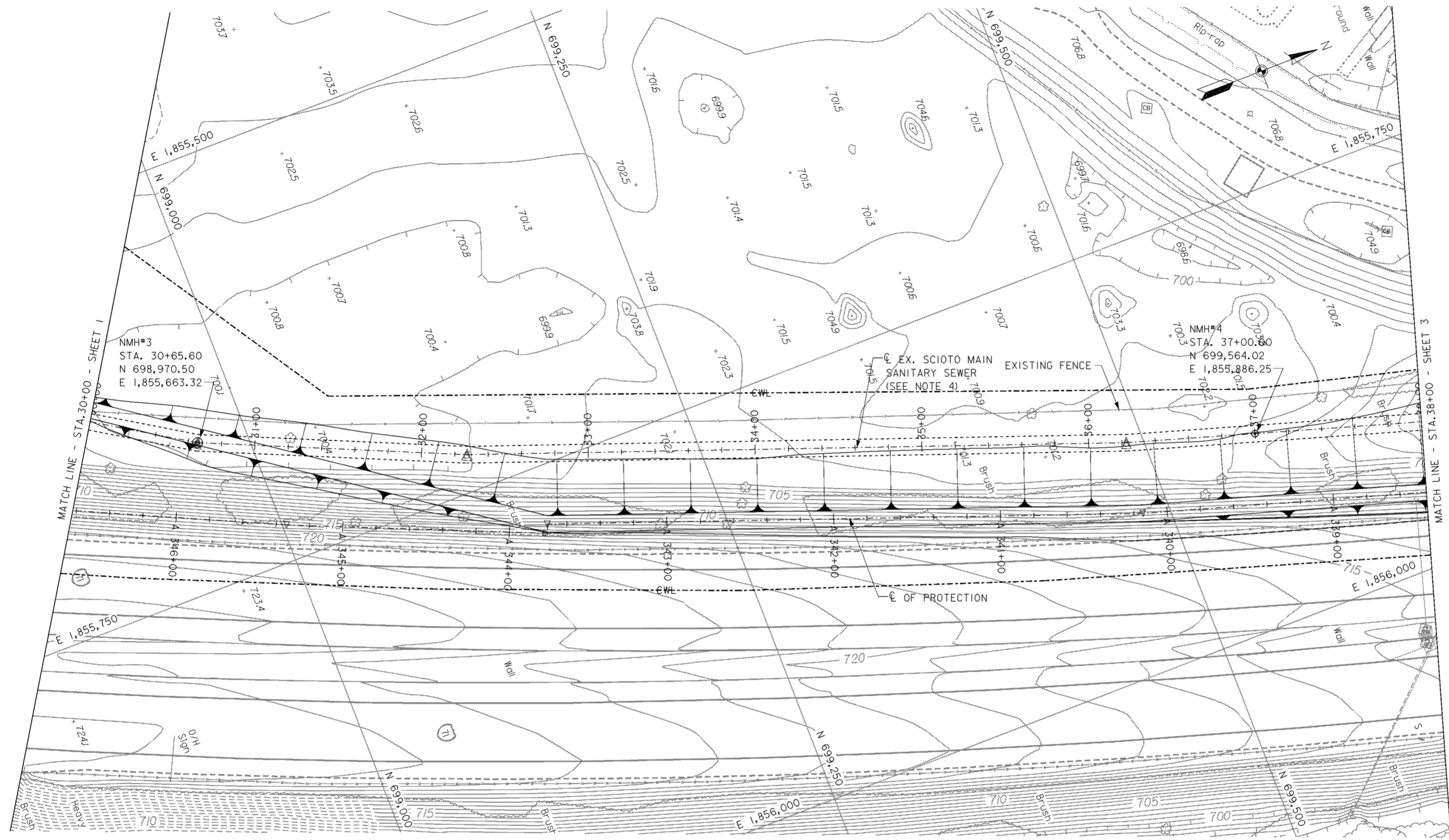


**PROFILE**

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

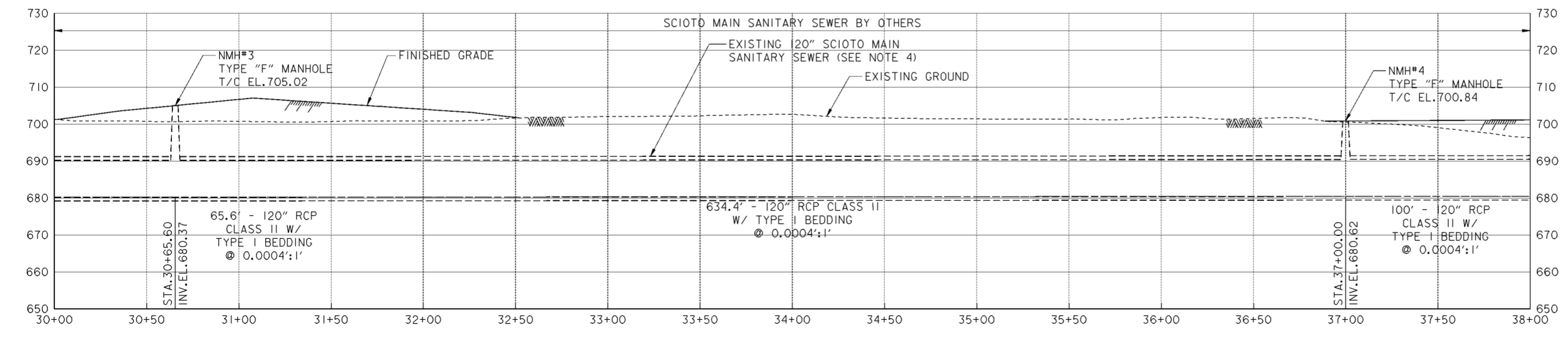
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>P. CONROY</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T. MULLINS</b>	<b>SCIOTO MAIN SANITARY SEWER (1 OF 7)</b>
Checked by: <b>B. GARRETT</b>	Scale: Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Reviewed by:	Sheet reference number: <b>15.2/4</b> FILENAME: PIN TABLE: a04app01.dgn
Approved by:	Sheet 1 of 7





**PLAN**

SCALE: 1" = 30'  
 0 30'



**PROFILE**

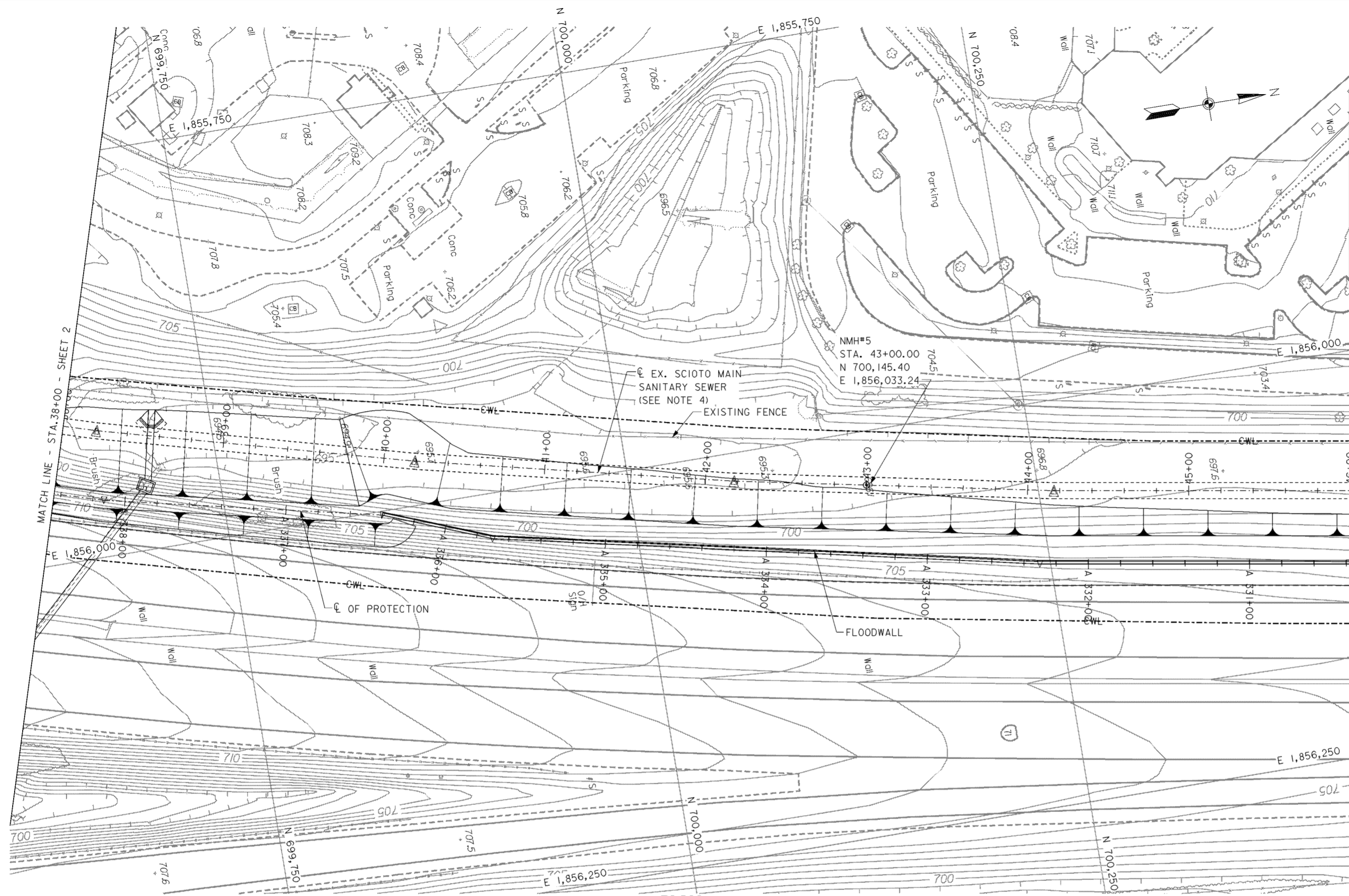
**NOTES**

1. FOR SCIOTO MAIN SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO. 15.2/3.
2. FOR PLAN AND PROFILE, SEE DRAWING NOS. 16/16 AND 16/17
3. FOR CROSS SECTIONS SEE DRAWING NOS. 16/45 THRU 16/47.
4. EXISTING 120" SCIOTO MAIN SANITARY SEWER CONSTRUCTED BY OTHERS BETWEEN STATIONS 30+00 AND 74+80.

Revisions			
Symbol	Descriptions	Date	Approved

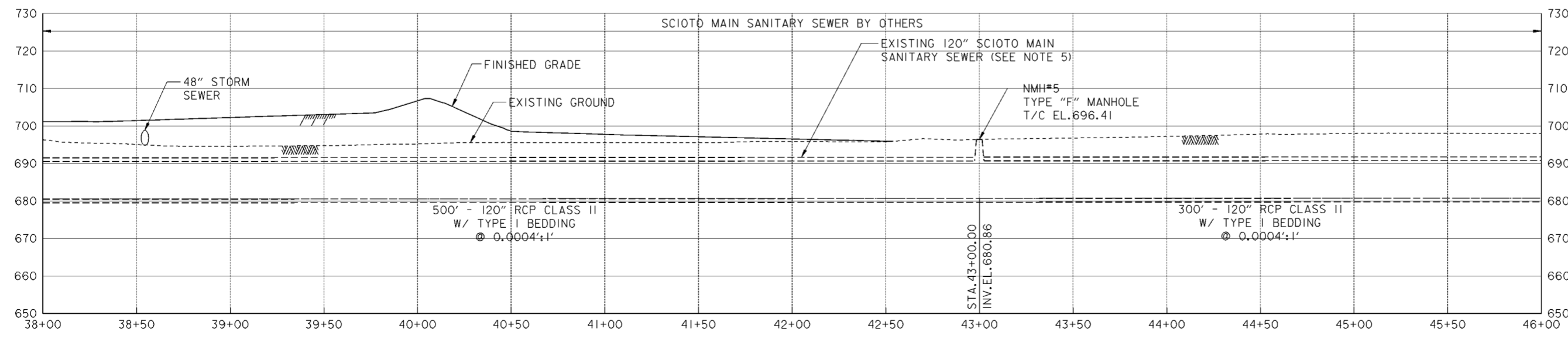
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>P. CONROY</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
		Drawn by: <b>T. MULLINS</b>	
Checked by: <b>B. GARRETT</b>	<b>SCIOTO MAIN SANITARY SEWER (2 OF 7)</b>	Reviewed by: Scale: Date: <b>OCTOBER 2000</b>	FILENAME: PIN TABLE: 004pp02.dgn
Approved by:	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.2/5</b>	Sheet <b>2</b> of <b>7</b>



**PLAN**

SCALE: 1" = 30'



**PROFILE**

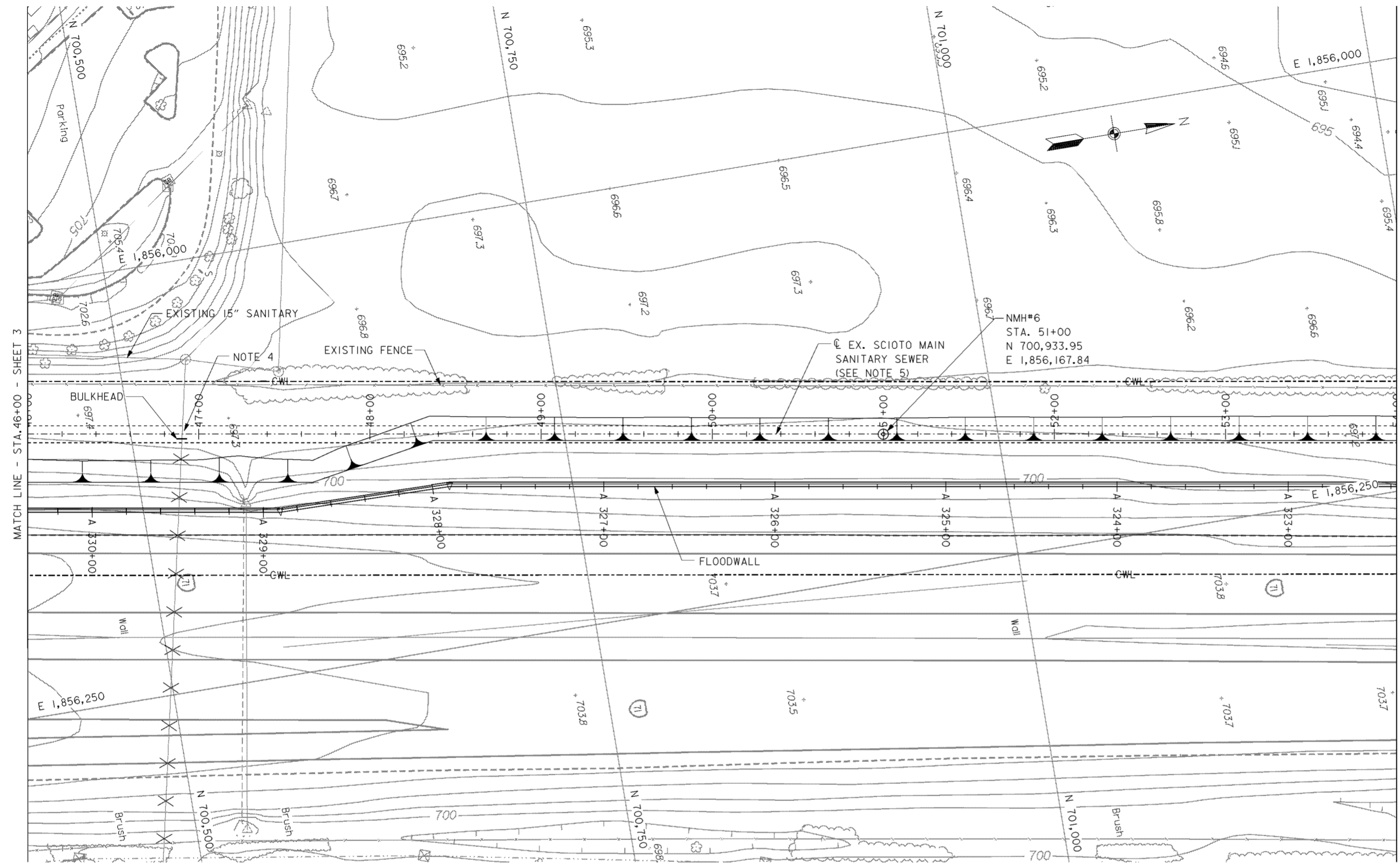
**NOTES**

- FOR SCIOTO MAIN SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO. 15.2/3.
- FOR PLAN AND PROFILE SEE DRAWING NOS. 16/14 AND 16/15.
- FOR CROSS SECTIONS SEE DRAWING NOS. 16/43 THRU 16/45.
- EXISTING 120" SCIOTO MAIN SANITARY SEWER CONSTRUCTED BY OTHERS BETWEEN STATIONS 30+00 AND 74+80.

Revisions			
Symbol	Descriptions	Date	Approved

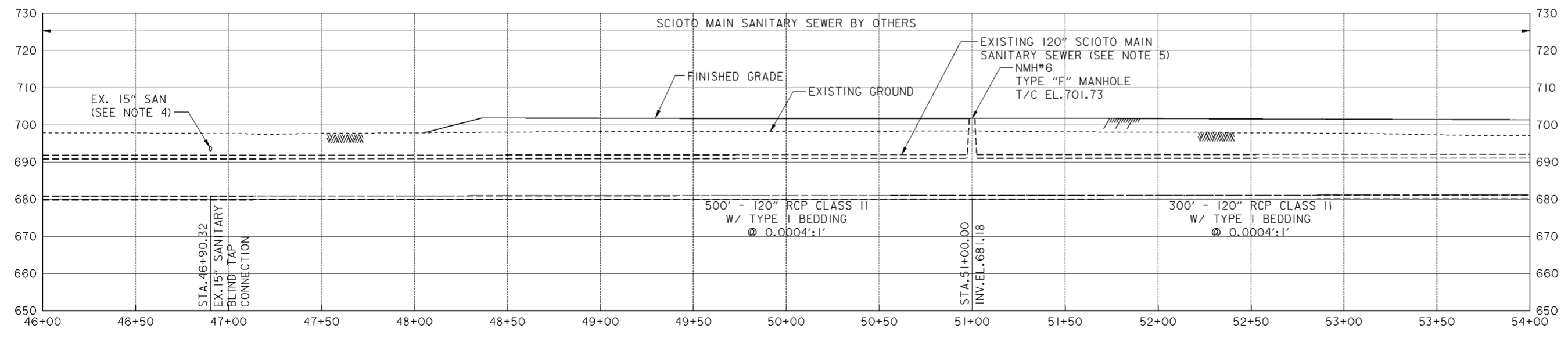
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>SCIOTO MAIN SANITARY SEWER (3 OF 7)</b>	
Designed by: <b>P. CONROY</b>		Checked by: <b>B. GARRETT</b>	FILENAME: 00s4pp03.dgn
Drawn by: <b>T. MULLINS</b>		Reviewed by:	Scale: Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.2/6</b>	PEN TABLE: Sheet <b>3</b> of <b>7</b>



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

**LEGEND**  
X X X - SEWER TO BE ABANDONED

- NOTES**
- FOR SCIOTO MAIN SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO. 15.2/3.
  - FOR PLAN AND PROFILE SEE DRAWING NOS. 16/13 AND 16/14.
  - FOR CROSS SECTIONS SEE DRAWING NOS. 16/39 THRU 16/42.
  - TIE-IN EXISTING 15" SANITARY TO SCIOTO MAIN SANITARY SEWER TO EXISTING BLIND TAP CONNECTION AFTER EXISTING 120" SANITARY SEWER IS PLACED INTO SERVICE UNDER THIS CONTRACT. PROVIDE BULKHEAD ON ABANDONED 15" SANITARY AND FILL IN PLACE TO THE FIRST MANHOLE EAST OF FREEWAY APPROXIMATELY 300' EAST OF EXISTING MANHOLE IN ACCORDANCE WITH COLUMBUS CMSC ITEM 202.
  - EXISTING 120" SCIOTO MAIN SANITARY SEWER CONSTRUCTED BY OTHERS BETWEEN STATIONS 30+00 AND 74+80.

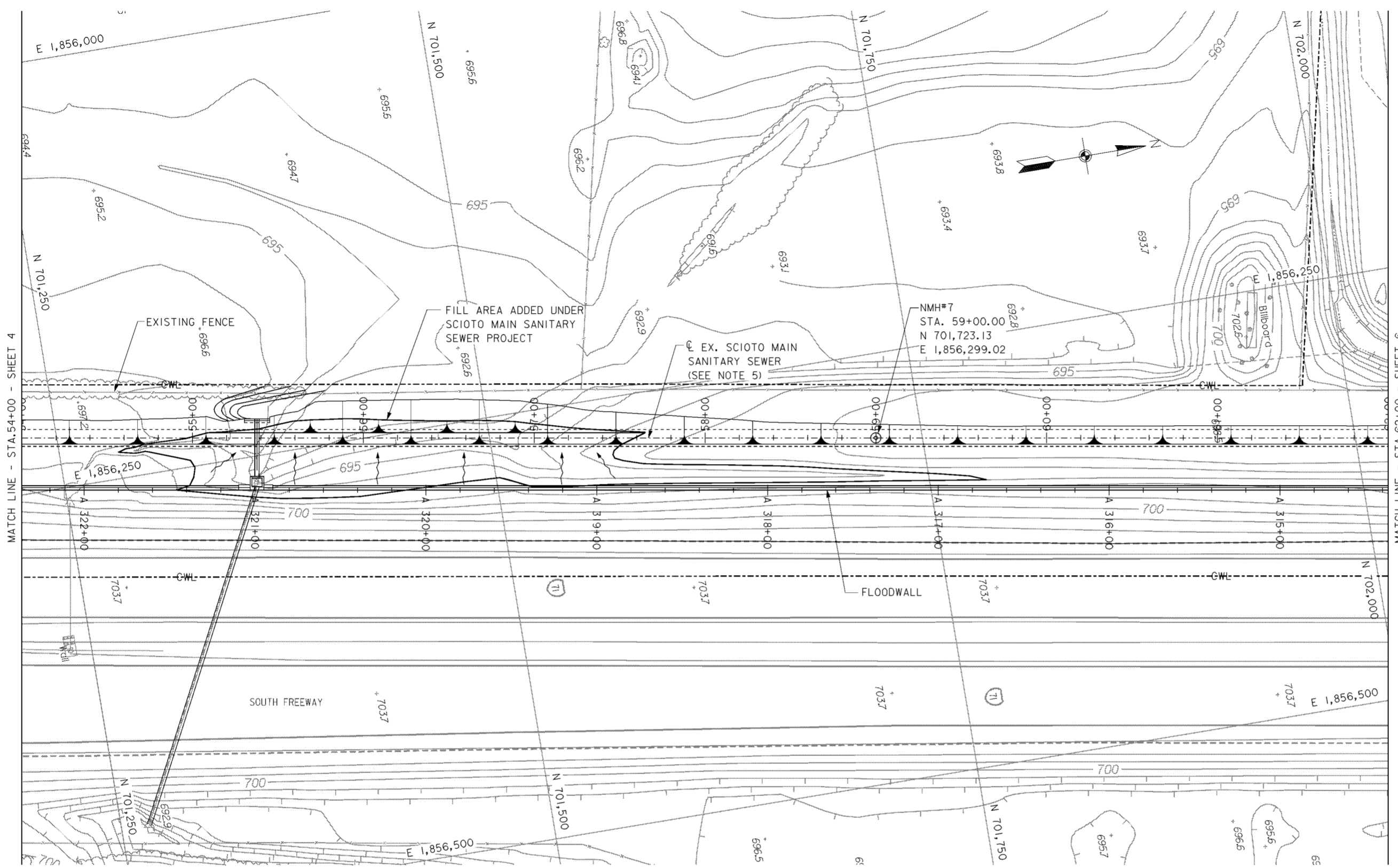


**PROFILE**

Revisions			
Symbol	Descriptions	Date	Approved

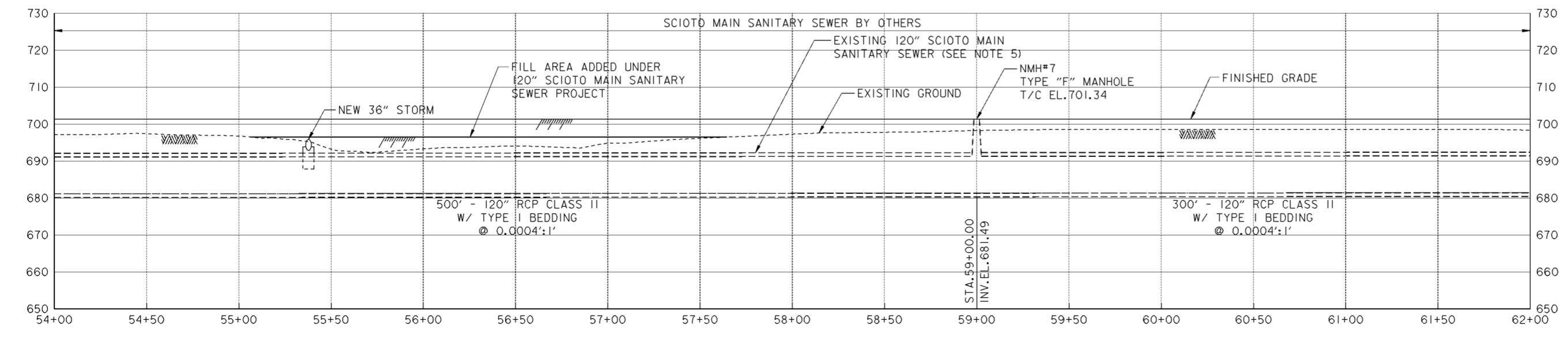
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>P. CONROY</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
		Drawn by: <b>T. MULLINS</b>	
Checked by: <b>B. GARRETT</b>	Scale: Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>15.2/7</b>	FILENAME: 00s4pp04.dgn PEN TABLE: Sheet 4 of 7
Reviewed by: Approved by:	Drawing Code: <b>016-PWC-13</b>	Date: <b>15.2/7</b>	Sheet 4 of 7



**PLAN**

SCALE: 1" = 30'



**PROFILE**

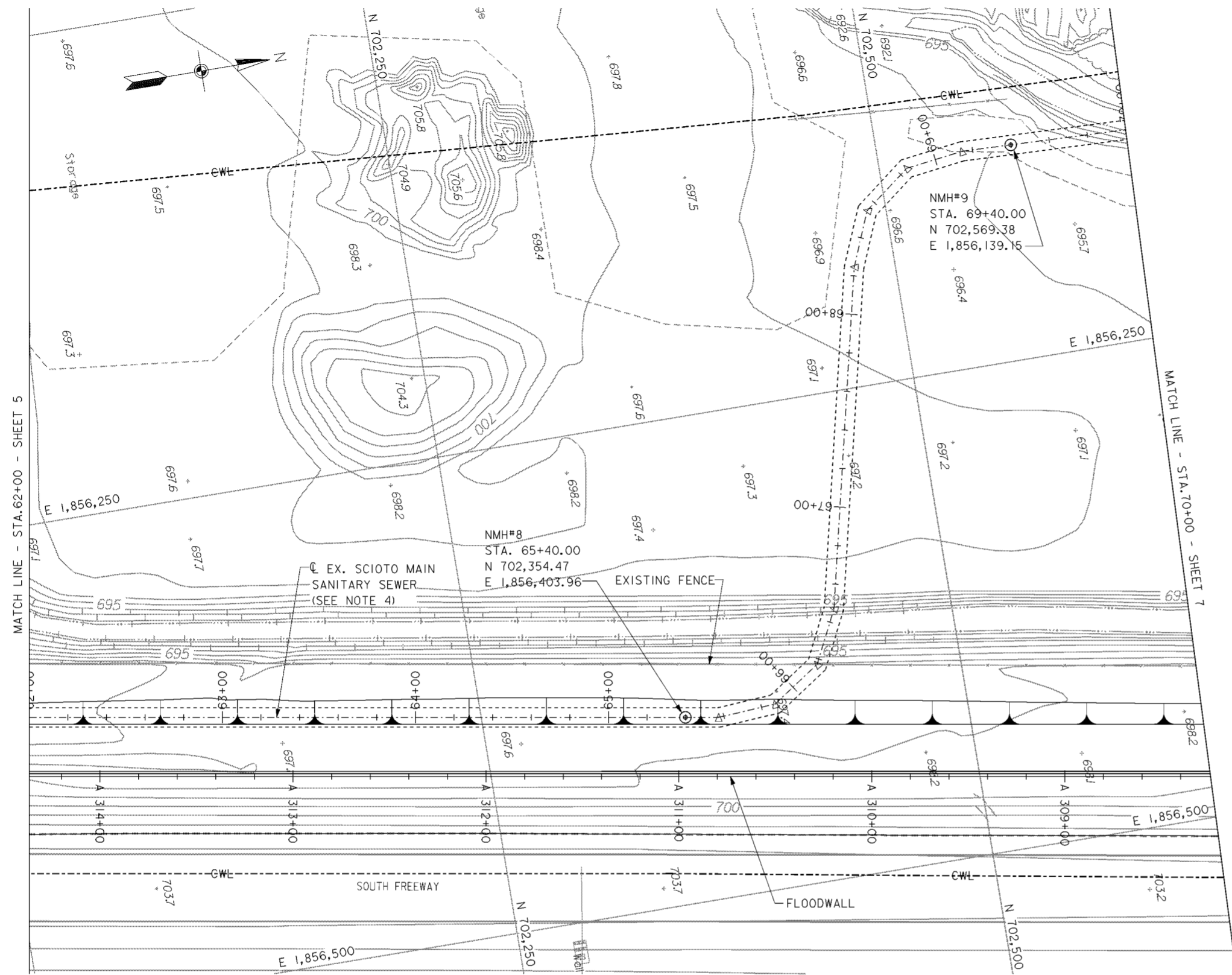
**NOTES**

1. FOR SCIOTO MAIN SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO. 15.2/3.
2. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/11 AND 16/12.
3. FOR CROSS SECTIONS SEE DRAWING NOS. 16/37 THRU 16/39.
4. FOR 36" SLUICE GATE PLAN AND PROFILE SEE DRAWING NO. 15.1/25.
5. EXISTING 120" SCIOTO MAIN SANITARY SEWER CONSTRUCTED BY OTHERS BETWEEN STATIONS 30+00 AND 74+80.

Revisions			
Symbol	Descriptions	Date	Approved

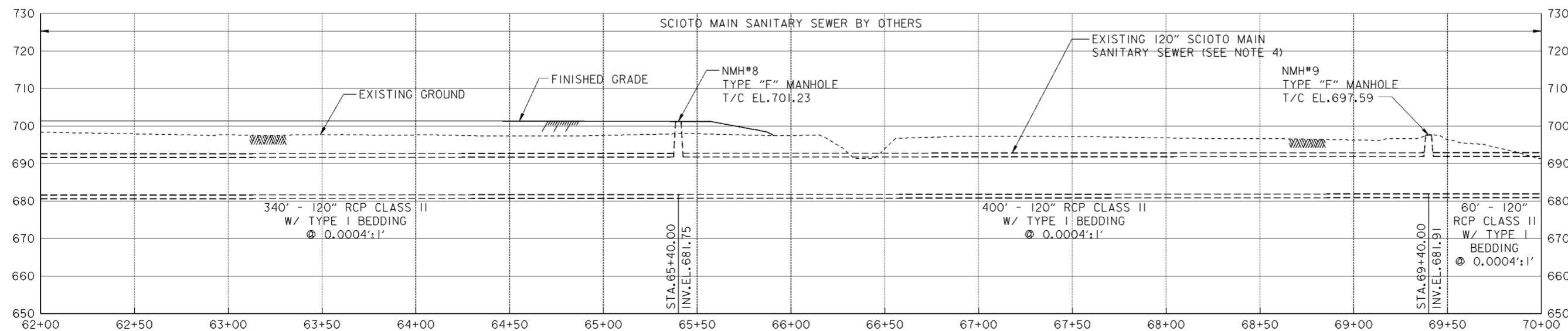
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>P. CONROY</b>	<b>SCIOTO MAIN SANITARY SEWER (5 OF 7)</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>B. GARRETT</b>			
Reviewed by:			
Approved by:	Scale: Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.2/8</b>	FILENAME: PEN TABLE: 00s4pp05.dgn Sheet <b>5</b> of <b>7</b>



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

**NOTES**

- FOR SCIOTO MAIN SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO. 15.2/3.
- FOR PLAN AND PROFILE SEE DRAWING NOS. 16/9 THRU 16/11.
- FOR CROSS SECTIONS SEE DRAWING NOS. 16/34 THRU 16/37.
- EXISTING 120" SCIOTO MAIN SANITARY SEWER CONSTRUCTED BY OTHERS BETWEEN STATIONS 30+00 AND 74+80.

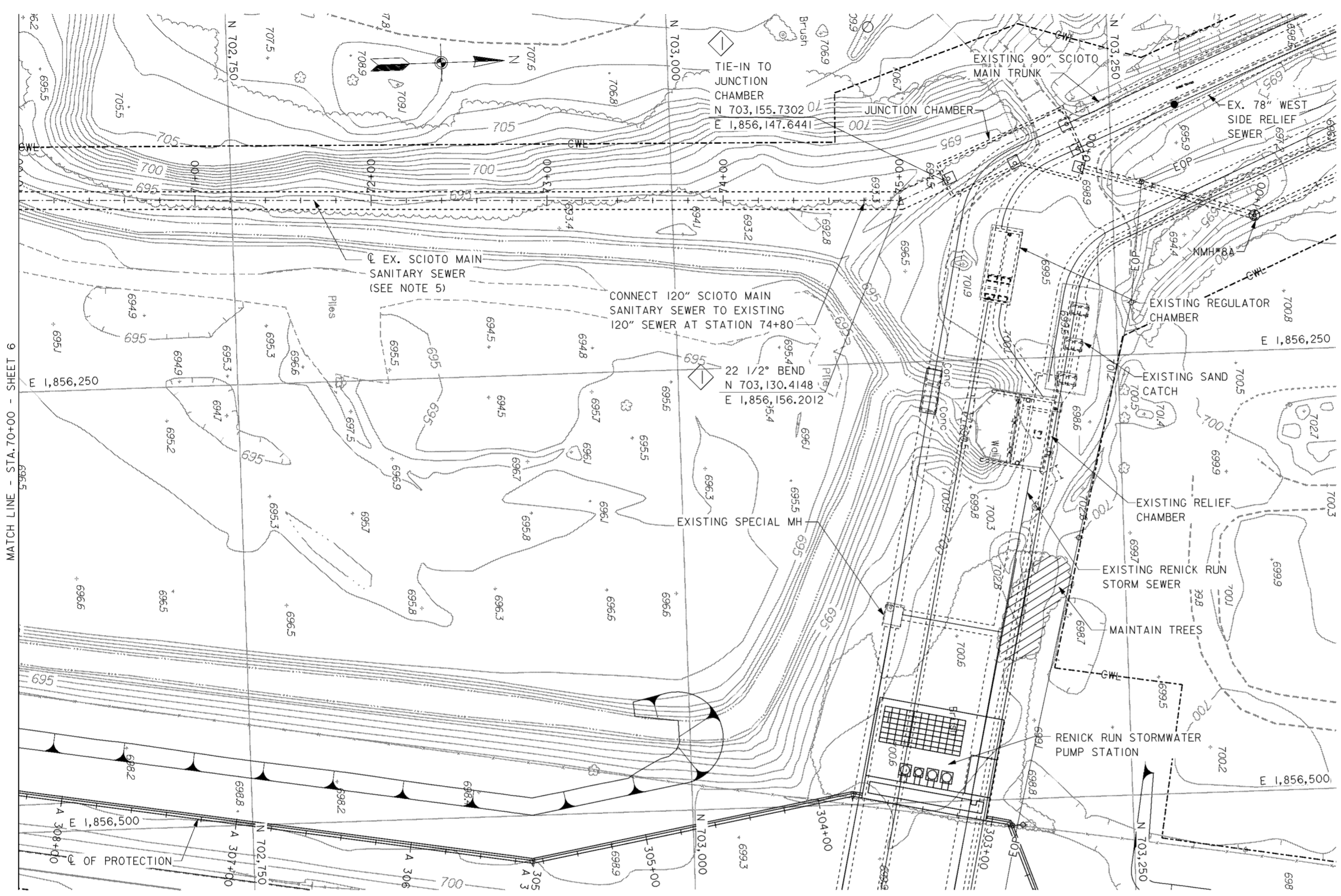


**PROFILE**

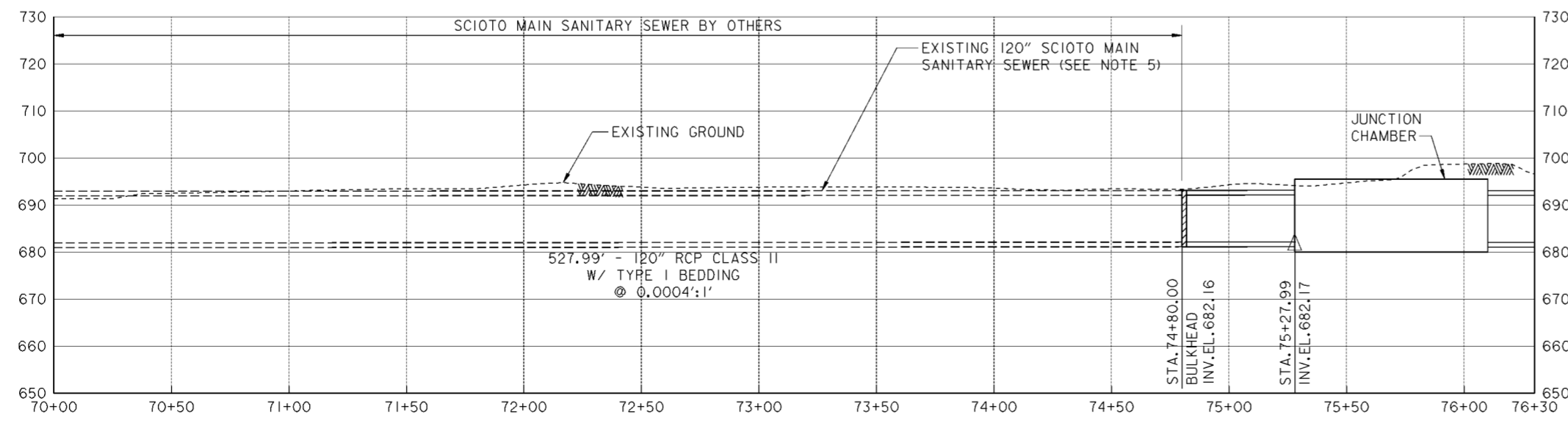
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>SCIOTO MAIN SANITARY SEWER (6 OF 7)</b>	
Designed by: <b>P. CONROY</b>		Checked by: <b>B. GARRETT</b>	Scale: Date: <b>OCTOBER 2000</b>
Drawn by: <b>T. MULLINS</b>		Reviewed by: Approved by:	Sheet reference number: <b>15.2/9</b>
Drawing Code: <b>016-PWC-13</b>		Date: <b>15.2/9</b>	



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

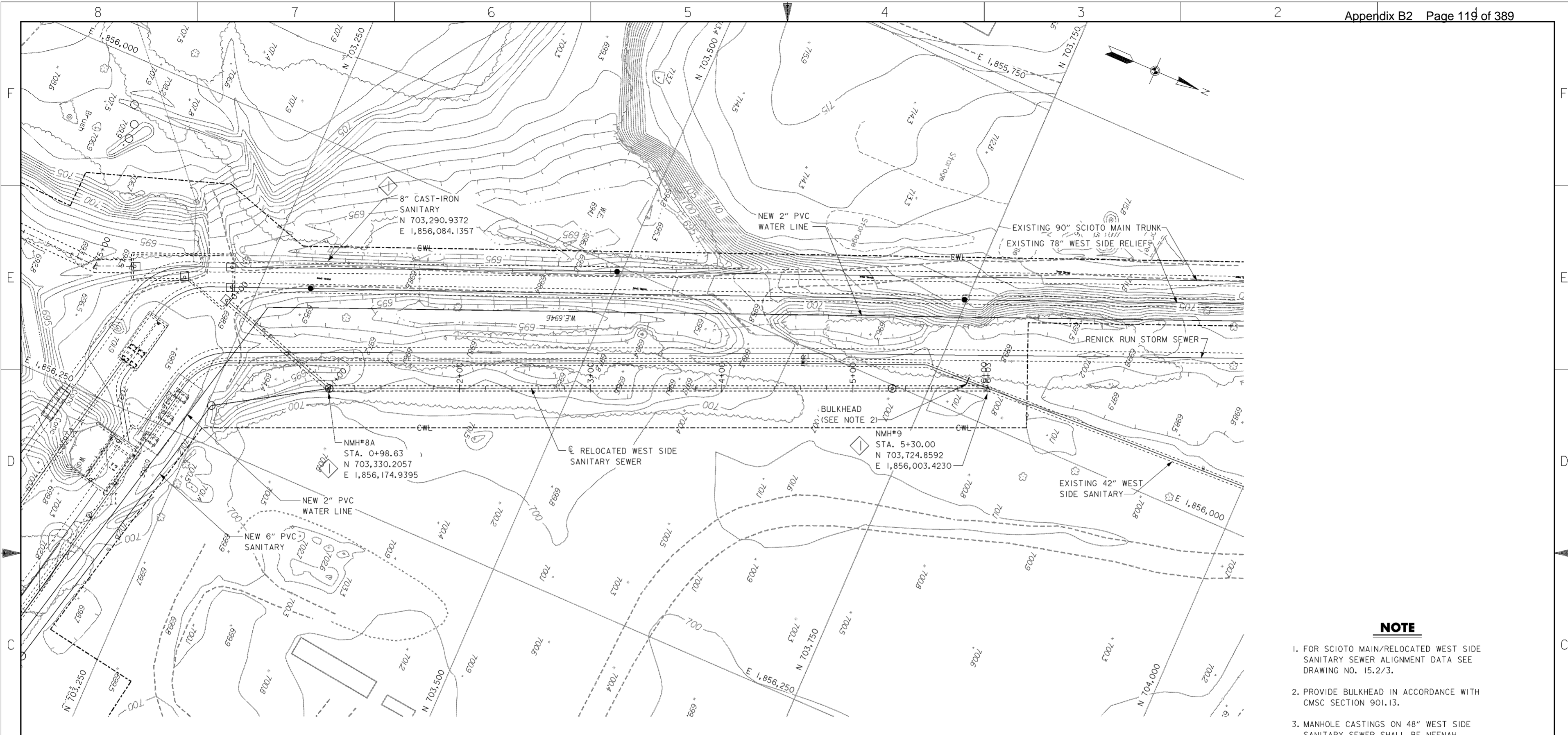


**PROFILE**

- NOTES**
- FOR SCIOTO MAIN SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO. 15.2/3.
  - FOR PLAN AND PROFILE SEE DRAWING NOS. 16/8 AND 16/9.
  - FOR CROSS SECTIONS SEE DRAWING NOS. 16/33 AND 16/34.
  - FOR JUNCTION CHAMBER DETAILS SEE DRAWING NOS. 15.3/1 THRU 15.3/9.
  - EXISTING 120" SCIOTO MAIN SANITARY SEWER CONSTRUCTED BY OTHERS BETWEEN STATIONS 30+00 AND 74+80.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>P.CONROY</b> Drawn by: <b>T.MULLINS</b> Checked by: <b>B.GARRETT</b> Reviewed by: _____ Approved by: _____	<b>U.S.ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III <b>SCIOTO MAIN SANITARY SEWER (7 OF 7)</b>	Scale: _____ Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.2/10</b> FILENAME: a04pp07.dgn PEN TABLE: Sheet <b>7</b> of <b>7</b>
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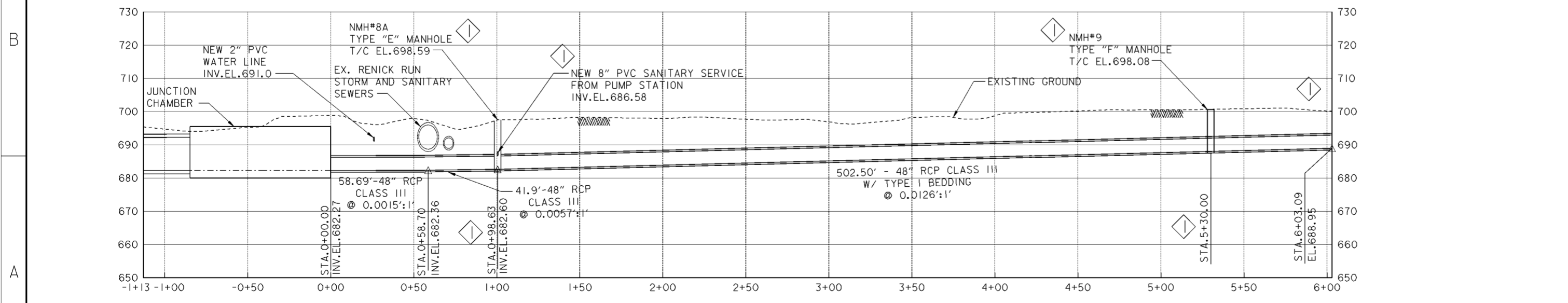


**PLAN**

SCALE: 1" = 30'

**NOTE**

1. FOR SCIOTO MAIN/RELOCATED WEST SIDE SANITARY SEWER ALIGNMENT DATA SEE DRAWING NO. 15.2/3.
2. PROVIDE BULKHEAD IN ACCORDANCE WITH CMSC SECTION 901.13.
3. MANHOLE CASTINGS ON 48" WEST SIDE SANITARY SEWER SHALL BE NEENAH R-1916-H, EAST JORDAN OR EQUAL.
4. FOR PUMP STATION WATER AND SANITARY SERVICES SEE DRAWING NOS. 15.3/1, 15.5/4 AND 15.5/5.



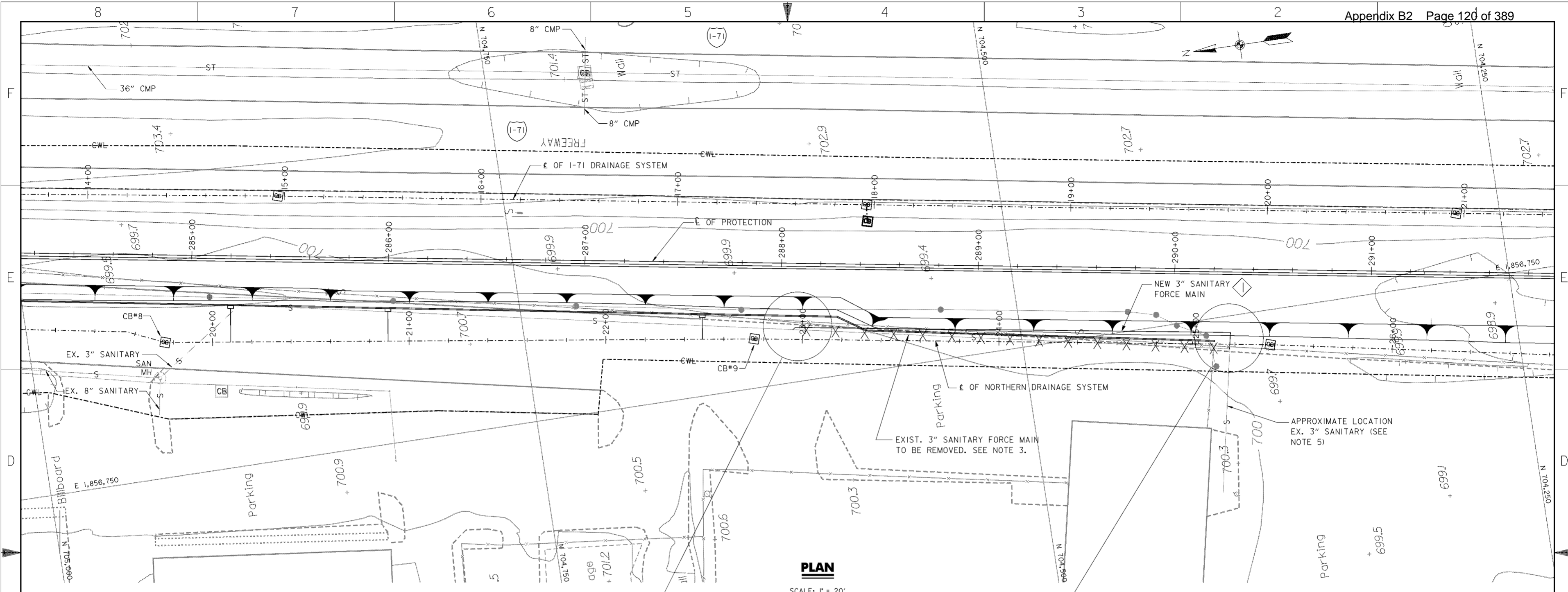
**PROFILE**

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>P. CONROY</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>WEST SIDE SANITARY</b> <b>SEWER (1 OF 1)</b>		
Checked by: <b>B. GARRETT</b>	Scale: Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>15.2/11</b>	FILENAME: PIN TABLE: a064pp08.dgn
Reviewed by:	Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 1	Approved by:

**WORK AS CONSTRUCTED**



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

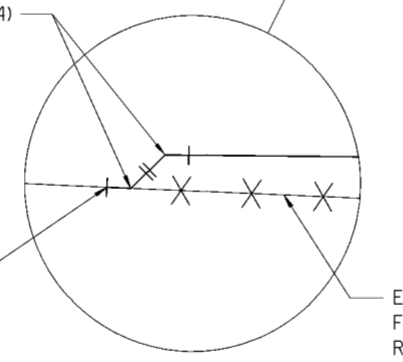
**LEGEND**

X X X - LINE TO BE REMOVED

2 - NEW 45° BENDS  
(SEE NOTE 4)

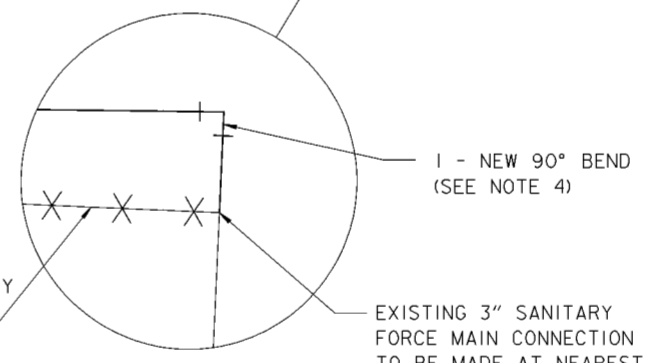
EXISTING 3" SANITARY  
FORCE MAIN CONNECTION  
TO BE MADE AT NEAREST  
JOINT

EXISTING 3" SANITARY  
FORCE MAIN TO BE  
REMOVED



**PARTIAL PLAN**

SCALE: NONE



1 - NEW 90° BEND  
(SEE NOTE 4)

EXISTING 3" SANITARY  
FORCE MAIN TO BE  
REMOVED

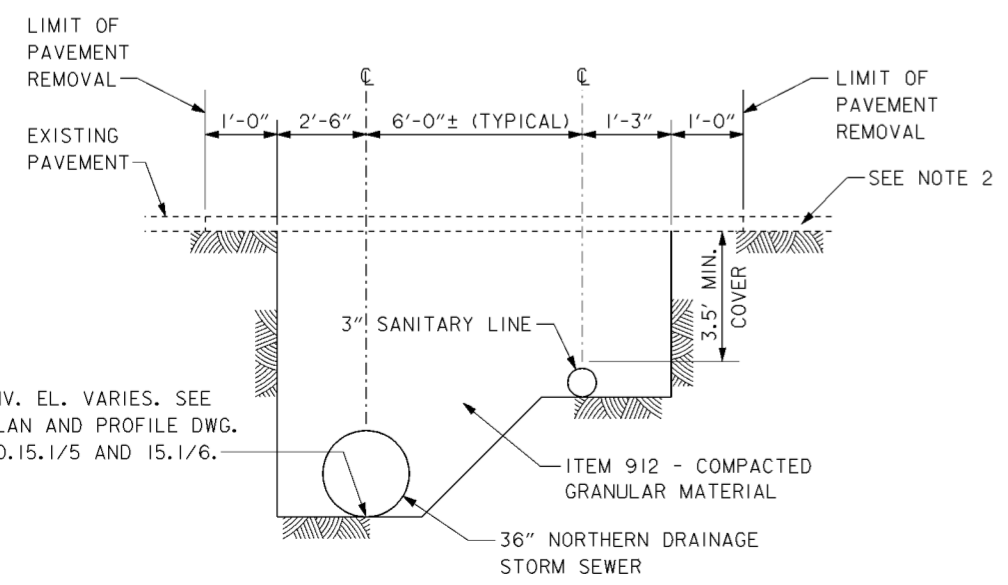
EXISTING 3" SANITARY  
FORCE MAIN CONNECTION  
TO BE MADE AT NEAREST  
JOINT

**PARTIAL PLAN**

SCALE: NONE

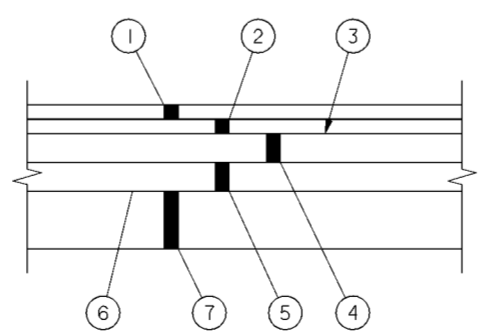
**NOTES**

1. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/8.
2. FOR PAVEMENT REMOVAL AND REPLACEMENT SEE TYPICAL SECTION AND TYPICAL PAVEMENT SECTION DETAILS THIS SHEET.
3. REMOVE 3" SANITARY FORCE MAIN IN ACCORDANCE WITH CMSC 202.04.
4. RELOCATION CONNECTION TO BE MADE AT NEAREST JOINT WITHIN CWL. PROVIDE CONCRETE THRUST BLOCKS AS PER CITY OF COLUMBUS STANDARDS.
5. EXISTING 3" SANITARY FORCE MAIN LOCATION OBTAINED FROM CITY OF COLUMBUS DRAWING CC-3418. CONTRACTOR SHALL FIELD VERIFY.
6. CONTRACTOR SHALL COORDINATE CONNECTION TO EXISTING SANITARY FORCE MAIN WITH CONTRACTING OFFICER.



**TYPICAL SECTION**

SCALE: NONE



**TYPICAL PAVEMENT SECTION**

SCALE: NONE

**CMSC/ODOT ITEM**

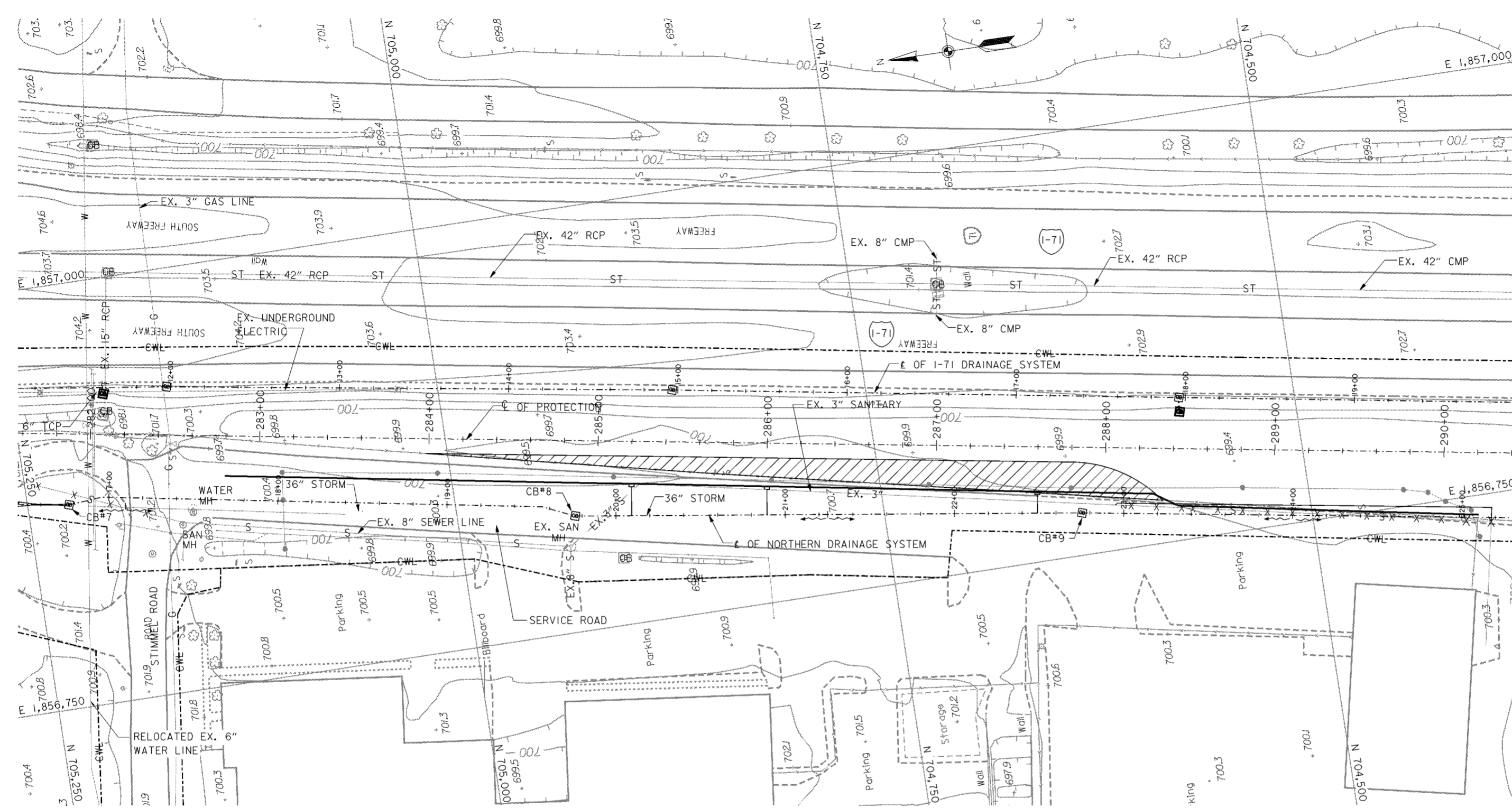
- ① 404 1 1/2" ASPHALT CONCRETE
- ② 402 1 1/2" ASPHALT CONCRETE
- ③ 407 TACKCOAT
- ④ 301 3" BITUMINOUS AGGREGATE BASE
- ⑤ 301 3" BITUMINOUS AGGREGATE BASE
- ⑥ 408 PRIMECOAT
- ⑦ 304 6" AGGREGATE BASE

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>P.CONROY</b> Drawn by: <b>T.MULLINS</b> Checked by: <b>R.ROMAN</b> Reviewed by: _____ Approved by: _____	<b>U.S.ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>3" SANITARY FORCE MAIN RELOCATION</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.2/12</b>	FILENAME: a02ap101.dgn PIN TABLE: STD-b.tbl STD-d.tbl
		Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 1



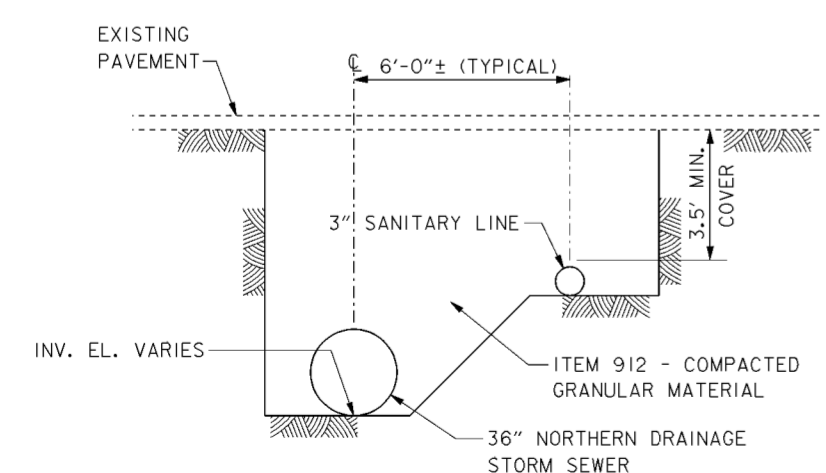


**PLAN**

SCALE: 1" = 30'

**LEGEND**

- X - X - X - LINE TO BE ABANDONED / REMOVED
- [Hatched Box] - TEMPORARY ASPHALT ROAD



**TYPICAL SECTION**

SCALE: NONE

**CONSTRUCTION GENERAL NOTES**

1. GENERAL. THE SERVICE ROAD FROM STIMMEL ROAD PROVIDES ACCESS TO BUSINESSES AND SHALL REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION OF ALL PROJECT FEATURES. A MEETING BETWEEN THE CONTRACTING OFFICER, CONTRACTOR AND BUSINESS OWNERS SHALL BE HELD PRIOR TO COMMENCEMENT OF WORK SO THAT THE BUSINESS OWNERS CAN EXPLAIN THEIR CONCERNS. THE CONTRACTOR SHALL CONDUCT THE PROJECT WORK IN SUCH A MANNER TO SAFEGUARD THE OPERATIONS, FACILITIES AND PROPERTY OF THE BUSINESSES. THE CONTRACTOR'S OPERATIONS SHALL BE PERFORMED IN SUCH A MANNER TO MINIMIZE DISRUPTION TO THE DAILY OPERATIONS OF THE BUSINESSES AND TO ENSURE SAFE OPERATING CONDITIONS FOR THE ACCESS ROAD.

THE CONTRACTOR WILL MINIMIZE THE USE OF THE ACCESS ROAD TO THAT NECESSARY FOR CONSTRUCTION. FORMS, PILING AND OTHER MATERIALS AND EQUIPMENT UTILIZED DAILY SHALL BE KEPT CLEAR OF THE ACCESS ROAD SO THAT THE BUSINESSES TRUCKS AND OTHER VEHICLES CAN USE THE ACCESS ROAD WITHIN THE CWL. THE ACCESS ROAD SHALL BE KEPT CLEAN OF CONSTRUCTION DEBRIS AND DIRT DURING CONSTRUCTION AS DIRECTED BY THE CONTRACTING OFFICER.

**36" STORM & 3" SANITARY CONSTRUCTION SEQUENCE**

1. 36" STORM SEWER AND 3" SANITARY FORCE MAIN CONSTRUCTED FROM SOUTH TO NORTH UP TO CATCH BASIN CB#9. PROTECT EXISTING 3" SANITARY FORCE MAIN.
2. CONSTRUCT THE TEMPORARY ASPHALT ROAD.
3. DIVERT TRAFFIC TO TEMPORARY ASPHALT ROAD.
4. CONSTRUCT 36" STORM SEWER AND 3" SANITARY FORCE MAIN TO STA. 18+40.
5. PLATE OVER ALL OPEN TRENCHES AT THE END OF THE DAY AND PROVIDE LIGHTED BARRELS AS NECESSARY ON ACCESS ROAD TO ENSURE SAFETY.
6. CONSTRUCT REMAINDER OF 36" STORM SEWER AND 3" SANITARY FORCE MAIN DURING 24 HOUR ROAD CLOSURE. CLOSURE SHALL BE COORDINATED WITH CONTRACTING OFFICER AND IN ACCORDANCE WITH SPECIFICATIONS.
7. DIVERT TRAFFIC BACK TO ORIGINAL DRIVE.
8. REMOVE EXISTING 3" SANITARY FORCE MAIN. TIE INTO NEW 3" SANITARY FORCE MAIN.

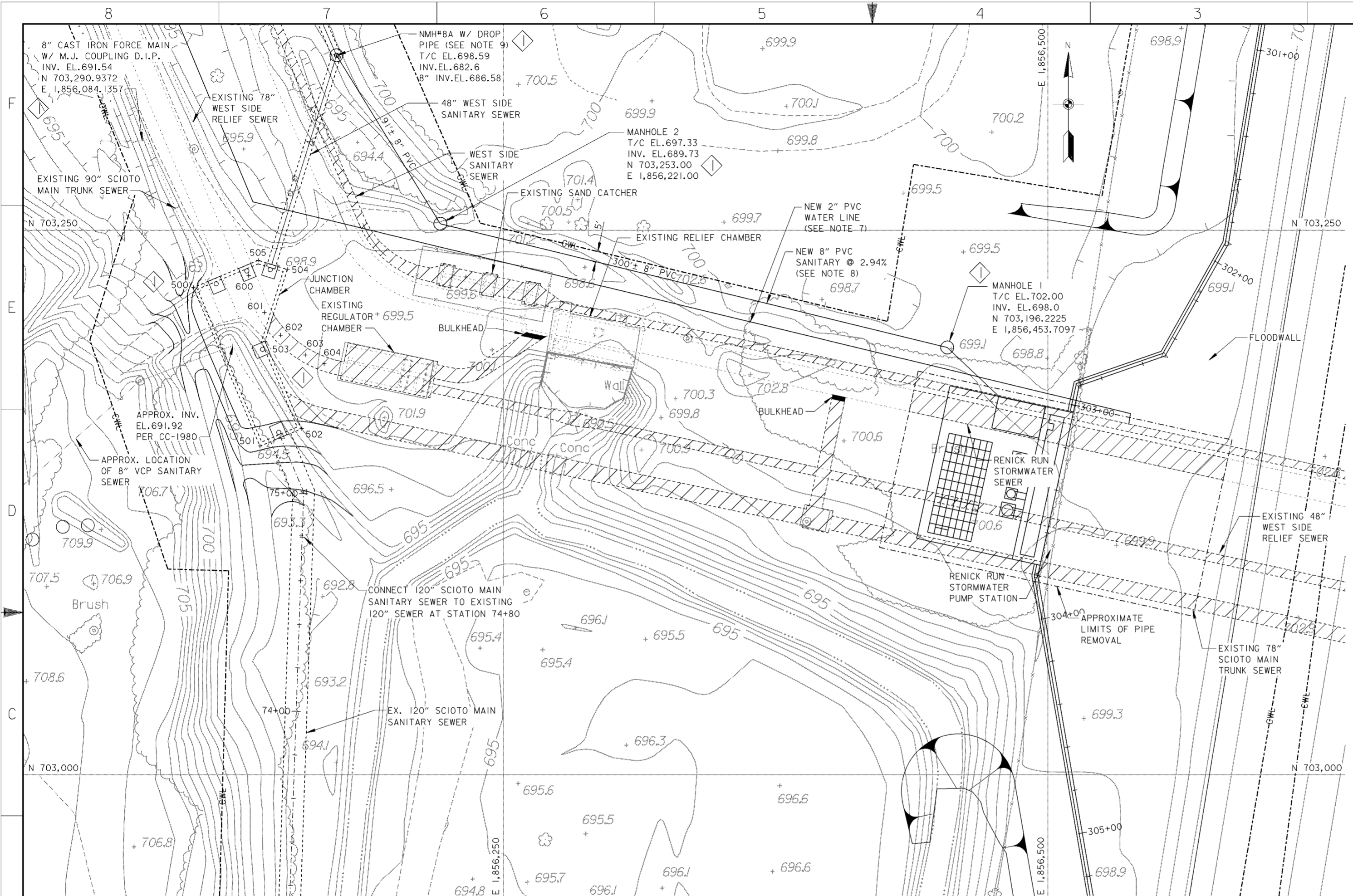
**NOTES**

1. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/4 THRU 15.1/6.
2. FOR 3" SANITARY FORCE MAIN RELOCATION SEE DRAWING NO. 15.2/12.
3. FOR STIMMEL ROAD SANITARY SEWER PLAN AND PROFILE SEE DRAWING NOS. 15.2/1 AND 15.2/2.
4. FOR STIMMEL ROAD AND GENERAL MAINTENANCE OF TRAFFIC NOTES SEE DRAWING NO.0/4.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. HALL</b>		<b>CONSTRUCTION SEQUENCE</b> <b>STIMMEL ROAD/ACCESS ROAD</b>	
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by: <b>AS SHOWN</b>			
Approved by: <b>OCTOBER 2000</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.2/13</b>	FILENAME: 00s1ms01.dgn PIN TABLE: Sheet 1 of 1
Drawing Code: <b>016-PWC-13</b>	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Date: <b>15.2/13</b>



JUNCTION CHAMBER		
POINT NUMBER	NORTHING	EASTING
500	703,223.7600	1,856,107.5900
501	703,150.9000	1,856,138.1400
502	703,158.9400	1,856,157.2800
503	703,196.5500	1,856,141.5100
504	703,232.9700	1,856,152.7800
505	703,237.1000	1,856,139.4000

8" WEST SIDE RELIEF SEWER		
POINT NUMBER	NORTHING	EASTING
600	703,230.2439	1,856,134.7008
601	703,213.1723	1,856,141.9592
602	703,203.1723	1,856,149.0651
603	703,193.2605	1,856,159.2557
604	703,189.2175	1,856,167.8546

ITEM TO BE REMOVED, ABANDONED OR FILLED IN PLACE. SEE DEMOLITION NOTES.

**NOTES**

- FOR GENERAL SITE PLAN SEE DRAWING NO.0/6.
- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS.6/1 THRU 6/5.
- FOR 120" SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS.15.2/4 THRU 15.2/10.
- FOR 48" WEST SIDE SANITARY SEWER SEE DRAWING NO.15.2/11.
- FOR JUNCTION CHAMBER DETAILS SEE DRAWING NOS. 15.3/2 THRU 15.3/9.
- DEWATERING FOR THE JUNCTION CHAMBER CONSTRUCTION SHALL MAINTAIN THE GROUNDWATER LEVEL 2 FEET BELOW THE BEARING ELEVATION UNTIL ALL SECOND POUR CONCRETE IS IN PLACE AND ALL BACKFILLING IS COMPLETE.
- FOR NEW 2" PVC WATER LINE SEE SHEET 15.4/4 THRU 15.4/5.
- FOR TRENCH WIDTH AND BEDDING OF 8" SANITARY SERVICE SEE CITY OF COLUMBUS STANDARD DRAWING AA-S149.
- FOR DROP PIPE DETAILS SEE CITY OF COLUMBUS STANDARD DRAWING AA-S110.

**SITE PLAN**

SCALE: 1" = 20'

**DEMOLITION NOTES**

THE FOLLOWING STRUCTURES AND SEWERS SHALL BE ABANDONED, REMOVED AND/OR FILLED IN PLACE AFTER THE 120" SCIOTO MAIN SANITARY SEWER IS OPERATIONAL. THESE SHALL BE REMOVED AND ABANDONED IN ACCORDANCE WITH CMSC ITEM 202. BULKHEADS SHALL BE PLACED AS NECESSARY TO FACILITATE ITEMS TO BE FILLED IN PLACE.

A) ABANDONED IN PLACE  
 - REGULATOR CHAMBER  
 - SAND CATCHER

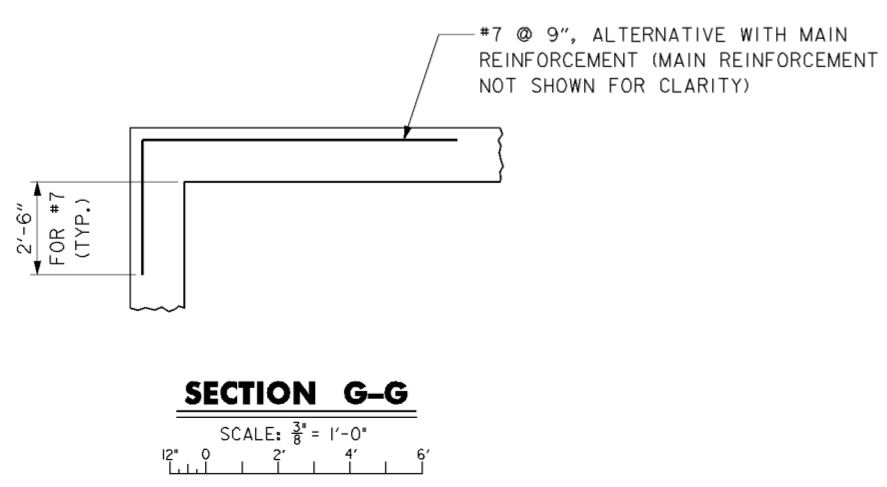
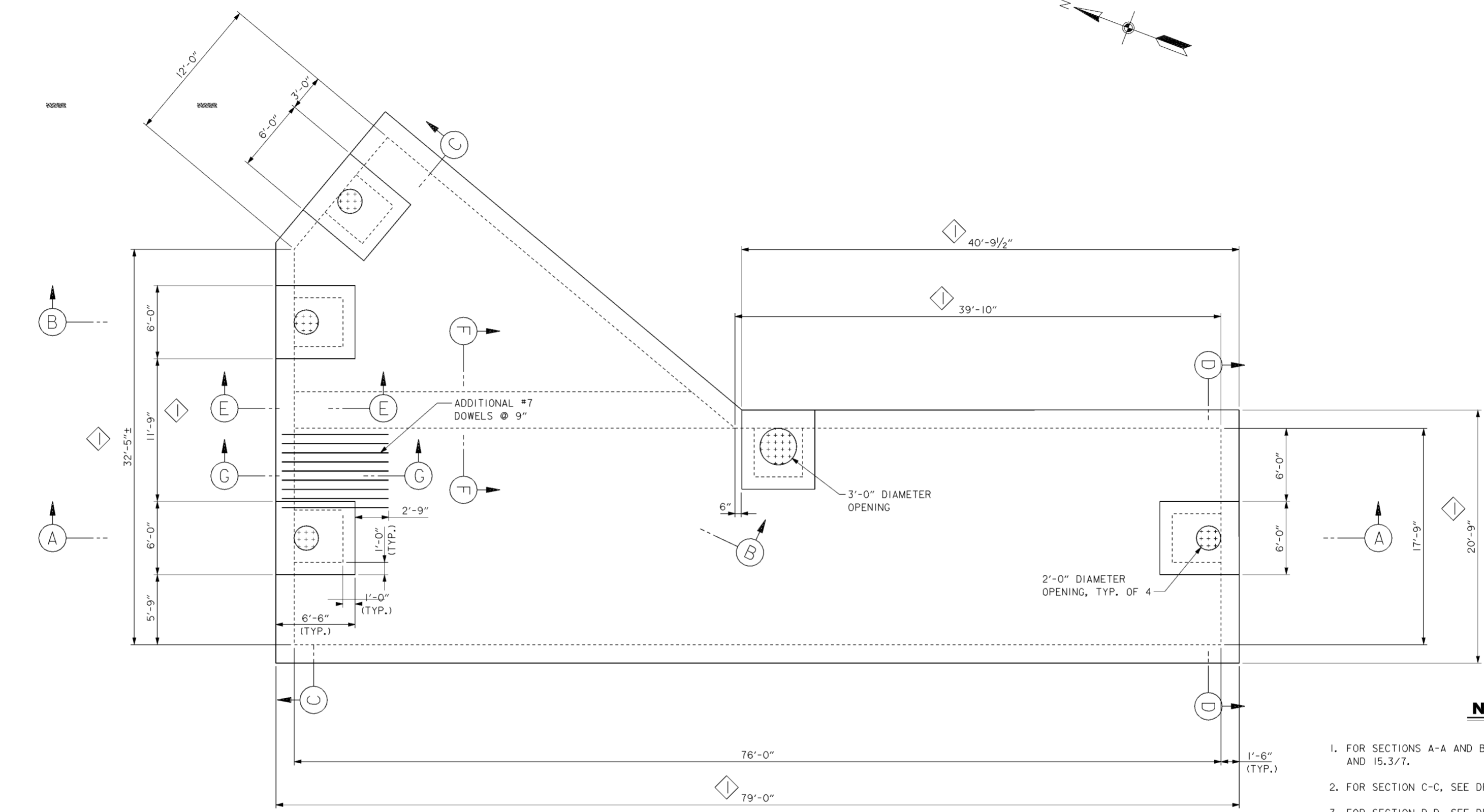
B) PIPE REMOVED  
 - WEST SIDE SANITARY SEWER AND RENICK RUN STORMWATER SEWER IN THE RENICK RUN STORMWATER PUMP STATION EXCAVATION. (SEE DRAWING NO.94.1/1)  
 - 48" WEST SIDE RELIEF SEWER AND 78" SCIOTO MAIN TRUNK SEWER IN THE RENICK RUN STORMWATER PUMP STATION EXCAVATION.

C) PIPE FILLED IN PLACE  
 - WEST SIDE SANITARY SEWER FROM NMH\*9 (SEE DRAWING NO.15.2/11) AND RENICK RUN STORMWATER PUMP STATION.  
 - WEST SIDE SANITARY SEWER FROM RENICK RUN STORMWATER PUMP STATION AND OSIS CROSSING CHAMBER (SEE DRAWING NOS.15.4/1 THRU 15.4/4)

- WEST SIDE RELIEF SEWER AND 90"/78" SCIOTO MAIN TRUNK SEWER BETWEEN JUNCTION CHAMBER AND RENICK RUN STORMWATER PUMP STATION.
- 48" WEST SIDE RELIEF SEWER BETWEEN RENICK RUN STORMWATER PUMP STATION AND OSIS. (SEE DRAWING NOS.15.4/1 THRU 15.4/4)
- 78" SCIOTO MAIN TRUNK SEWER BETWEEN RENICK RUN STORMWATER PUMP STATION AND APPROXIMATELY 25' WEST OF JUNCTION WITH OSIS. (SEE DRAWING NO.15.4/1 THRU 15.4/4)
- OVERFLOW BETWEEN EXISTING REGULATOR CHAMBER AND RENICK RUN STORM SEWER.
- OVERFLOW BETWEEN 78"/90" SCIOTO MAIN TRUNK SEWER AND RENICK RUN STORMWATER SEWER.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>T.BELL-GAMES</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T.MULLINS</b>	<b>JUNCTION CHAMBER SITE/GRADING</b>
Checked by: <b>P.CONROY</b>	<b>AND SANITARY SERVICE PLAN</b>
Reviewed by:	Scale: <b>AS SHOWN</b>
Approved by:	Date: <b>OCTOBER 2000</b>
	Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>15.31</b>
	FILENAME: a0d0p101.dgn
	PIN TABLE: Sheet 1 of 1



**UPPER PLAN**  
SCALE: 1/4" = 1'-0"

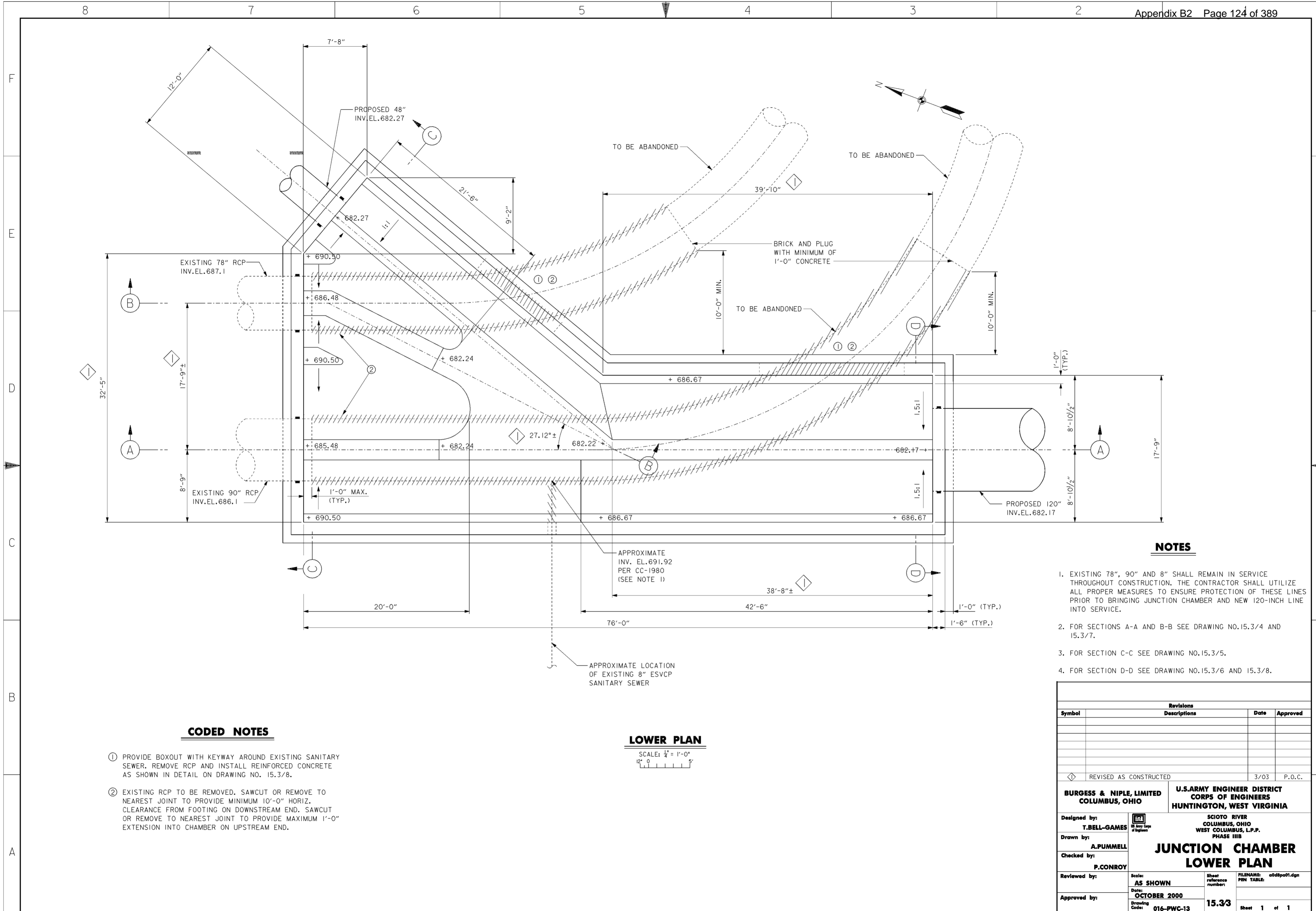
**NOTES**

1. FOR SECTIONS A-A AND B-B, SEE DRAWING NO.15.3/4 AND 15.3/7.
2. FOR SECTION C-C, SEE DRAWING NO.15.3/5.
3. FOR SECTION D-D, SEE DRAWING NO.15.3/6 AND NO.15.3/8.
4. FOR SECTION E-E AND F-F, SEE DRAWING NO.15.3/8.
5. FOR DESIGN LOADS SEE DRAWING NO.15.3/9.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S.ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>A.SHEYN</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>A.PUMMELL</b>	<b>JUNCTION CHAMBER</b> <b>UPPER SLAB PLAN</b>
Checked by: <b>C.GALANT</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
Sheet reference number: <b>15.3/2</b>	FILENAME: a0d9po02.dgn PEN TABLE: <b>Sheet 1 of 1</b>

**WORK AS CONSTRUCTED**



**CODED NOTES**

- ① PROVIDE BOXOUT WITH KEYWAY AROUND EXISTING SANITARY SEWER. REMOVE RCP AND INSTALL REINFORCED CONCRETE AS SHOWN IN DETAIL ON DRAWING NO. 15.3/8.
- ② EXISTING RCP TO BE REMOVED. SAWCUT OR REMOVE TO NEAREST JOINT TO PROVIDE MINIMUM 10'-0" HORIZ. CLEARANCE FROM FOOTING ON DOWNSTREAM END. SAWCUT OR REMOVE TO NEAREST JOINT TO PROVIDE MAXIMUM 1'-0" EXTENSION INTO CHAMBER ON UPSTREAM END.

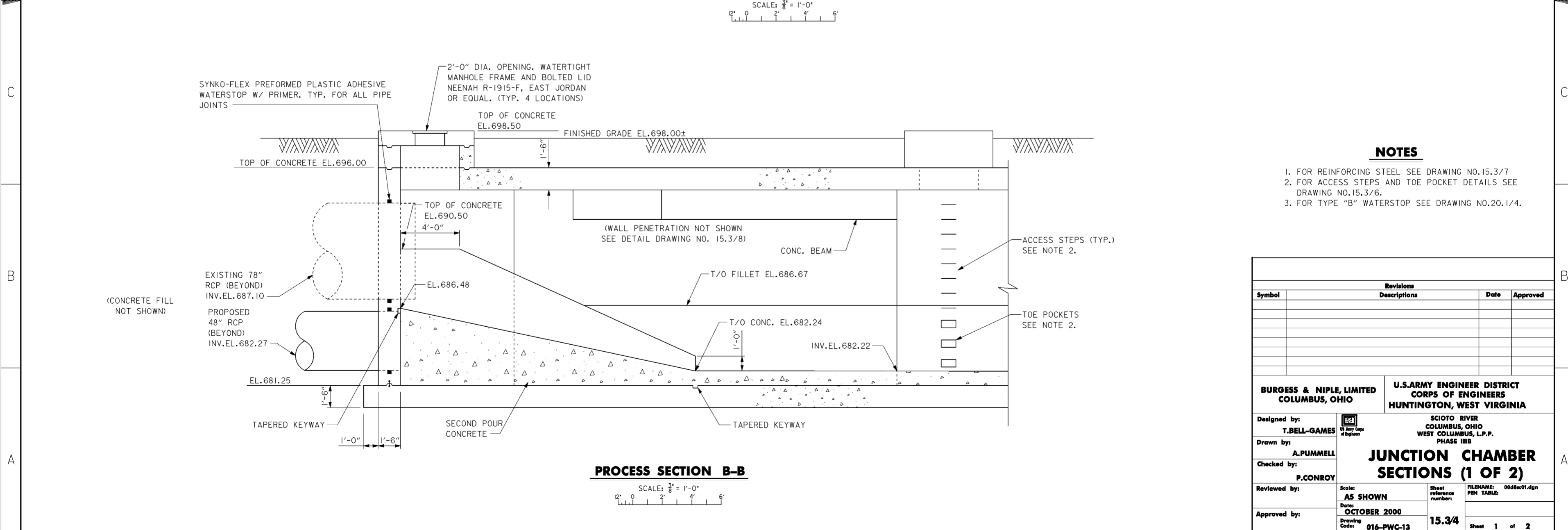
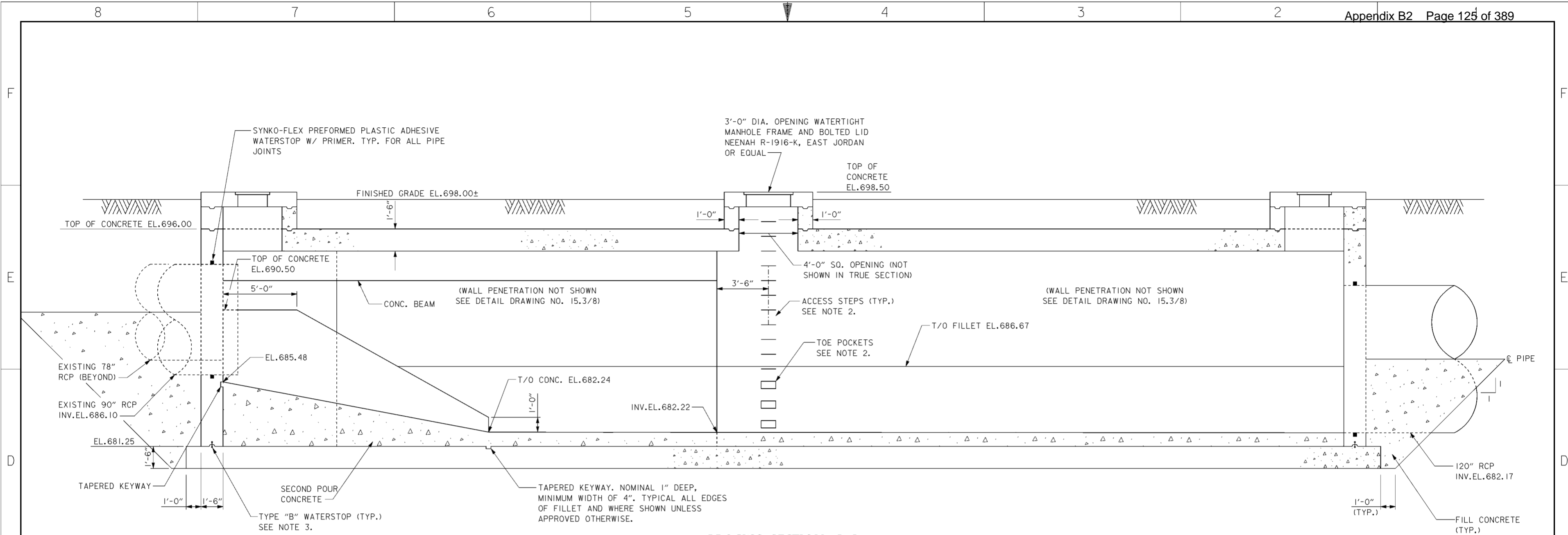
**LOWER PLAN**

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

**NOTES**

- 1. EXISTING 78", 90" AND 8" SHALL REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL UTILIZE ALL PROPER MEASURES TO ENSURE PROTECTION OF THESE LINES PRIOR TO BRINGING JUNCTION CHAMBER AND NEW 120-INCH LINE INTO SERVICE.
- 2. FOR SECTIONS A-A AND B-B SEE DRAWING NO.15.3/4 AND 15.3/7.
- 3. FOR SECTION C-C SEE DRAWING NO.15.3/5.
- 4. FOR SECTION D-D SEE DRAWING NO.15.3/6 AND 15.3/8.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S.ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>T.BELL-GAMES</b>	<b>SCIO TO RIVER</b> COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	<b>JUNCTION CHAMBER</b> <b>LOWER PLAN</b>	
Drawn by: <b>A.PUMMELL</b>			
Checked by: <b>P.CONROY</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.3/3</b>	FILENAME: PEN TABLE: a0d8po01.dgn
	Date: <b>OCTOBER 2000</b>		
	Drawing Code: <b>016-PWC-13</b>		Sheet <b>1</b> of <b>1</b>

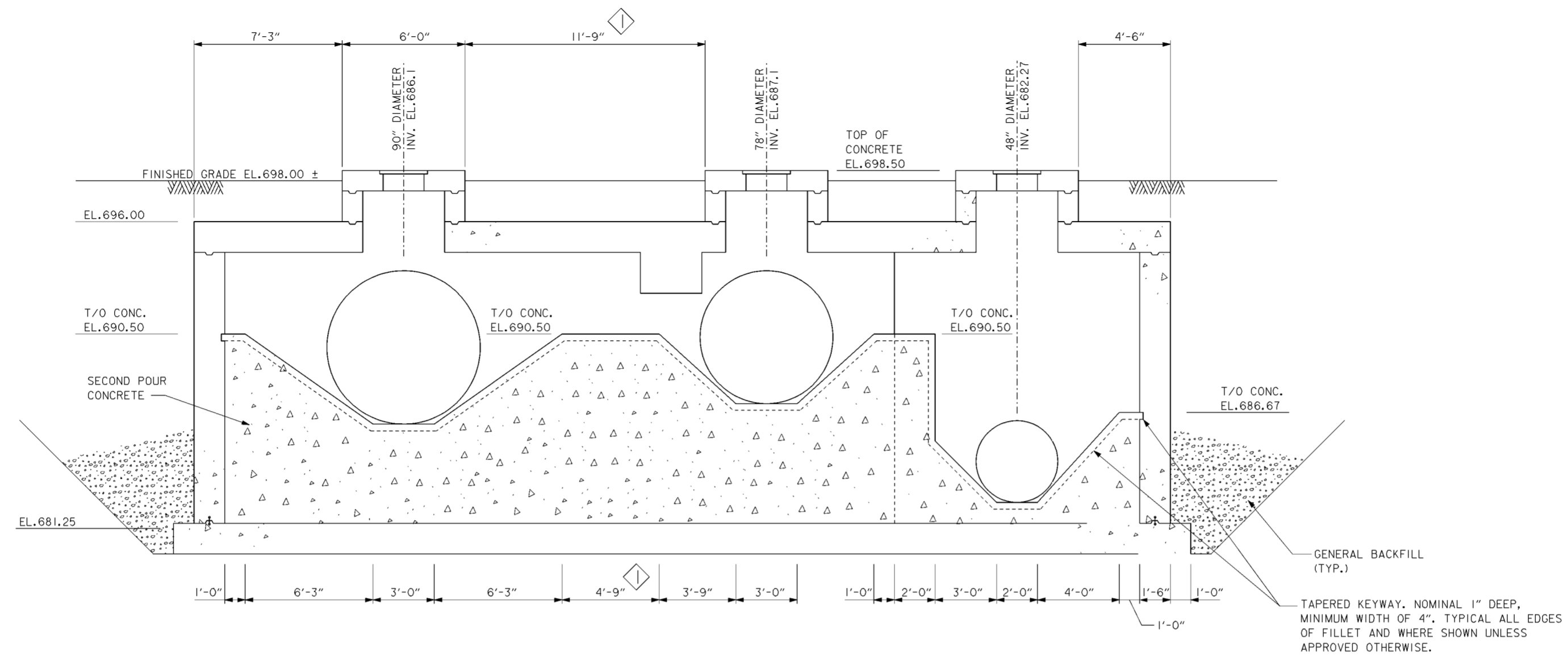


**NOTES**

1. FOR REINFORCING STEEL SEE DRAWING NO. 15.3/7
2. FOR ACCESS STEPS AND TOE POCKET DETAILS SEE DRAWING NO. 15.3/6.
3. FOR TYPE "B" WATERSTOP SEE DRAWING NO. 20.1/4.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>T. BELL-GAMES</b>		<b>SCIOTO RIVER</b> COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>A. PUMMELL</b>			
Checked by: <b>P. CONROY</b>		<b>JUNCTION CHAMBER</b> <b>SECTIONS (1 OF 2)</b>	
Reviewed by:			
Approved by:		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.3/4</b>
		Date: <b>OCTOBER 2000</b>	FILENAME: PIN TABLE: 0008c01.dgn
		Drawing Code: <b>016-PWC-13</b>	Sheet <b>1</b> of <b>2</b>



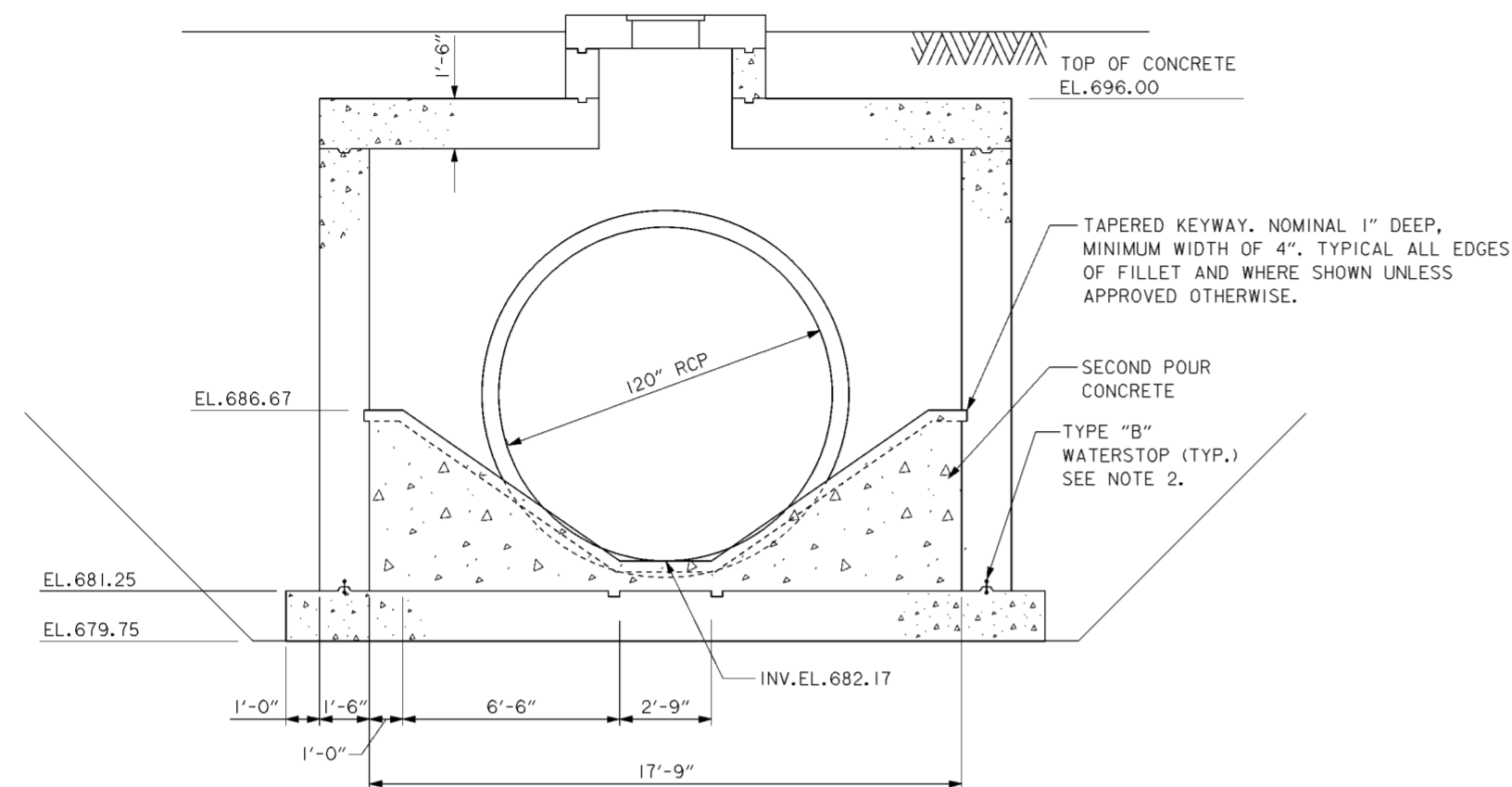
**PROCESS SECTION C-C**

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

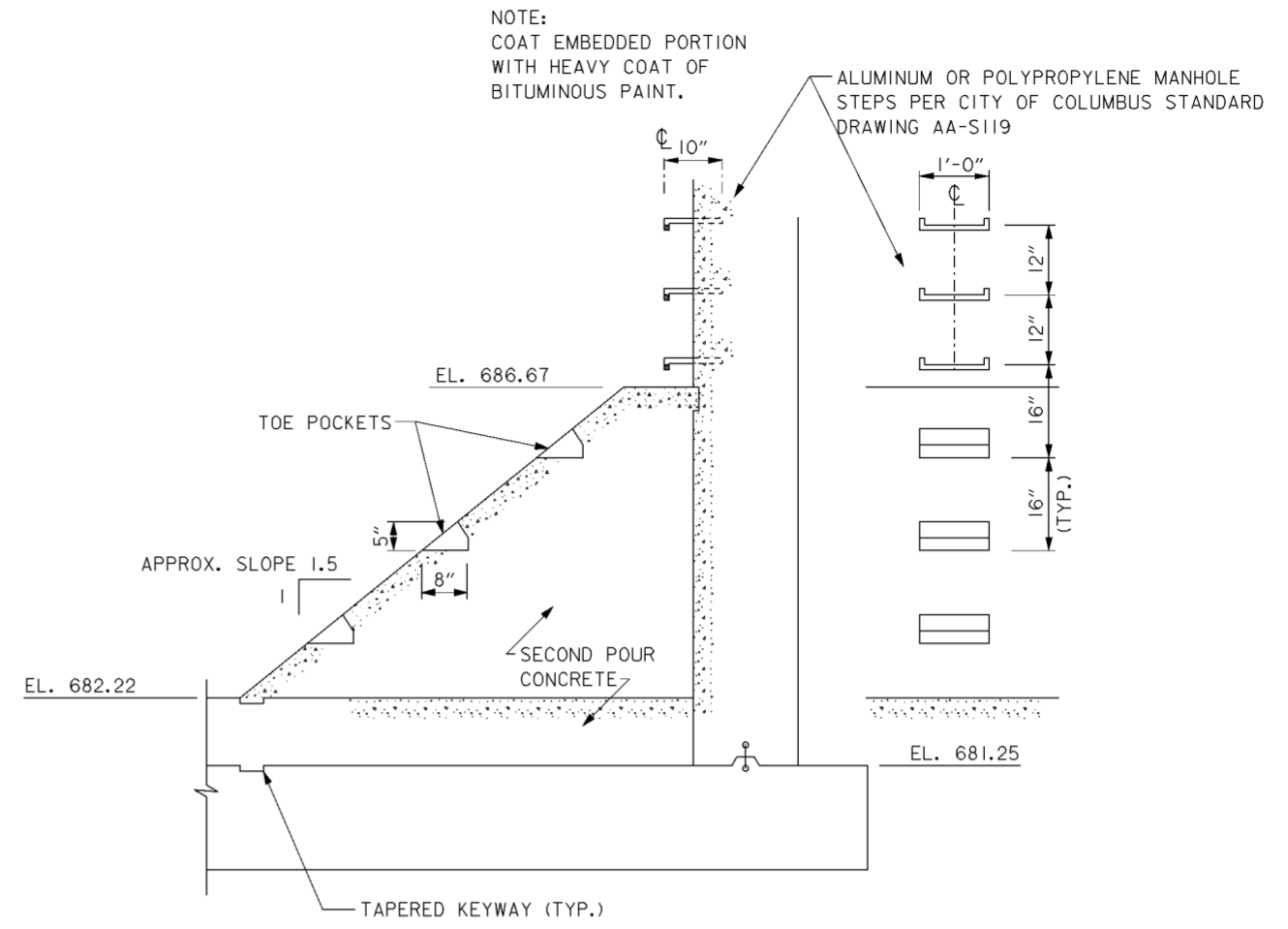
Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>T. BELL-GAMES</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>A. PUMMELL</b>	<b>JUNCTION CHAMBER</b> <b>SECTIONS (2 OF 2)</b>
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>15.3/5</b>
	FILENAME: a0d8ec02.dgn
	PIN TABLE:
	Sheet <b>2</b> of <b>2</b>

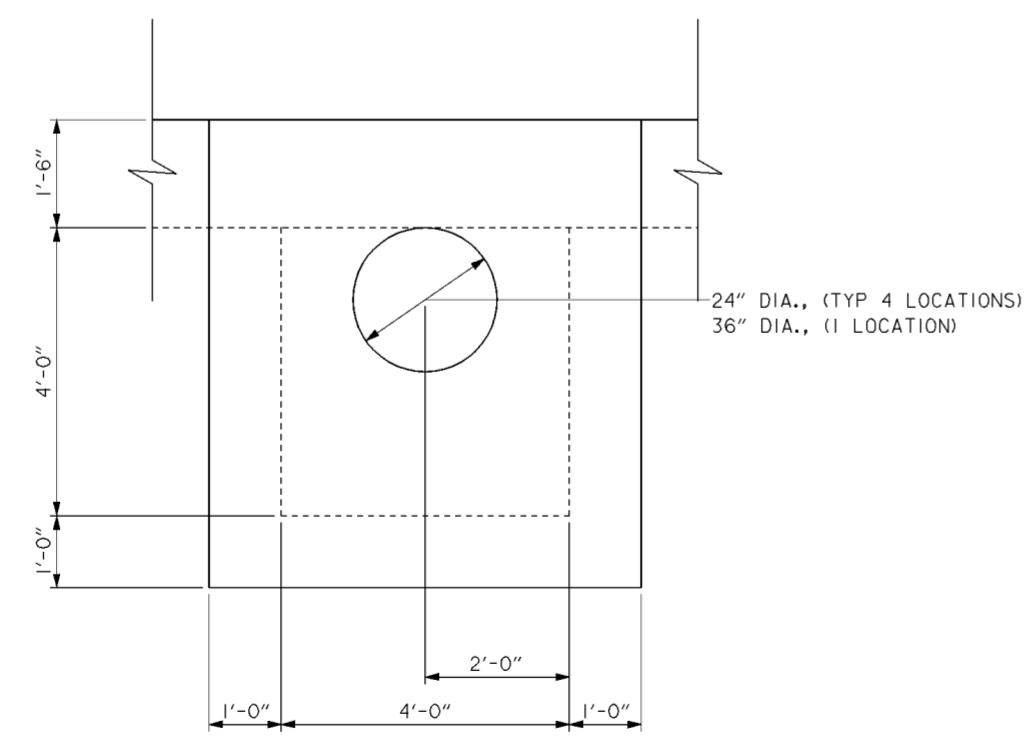


**PROCESS SECTION D-D**  
 SCALE:  $\frac{3}{8}'' = 1'-0''$



**SECTION ELEVATION**

**ACCESS STEPS DETAIL**  
 SCALE:  $\frac{3}{8}'' = 1'-0''$



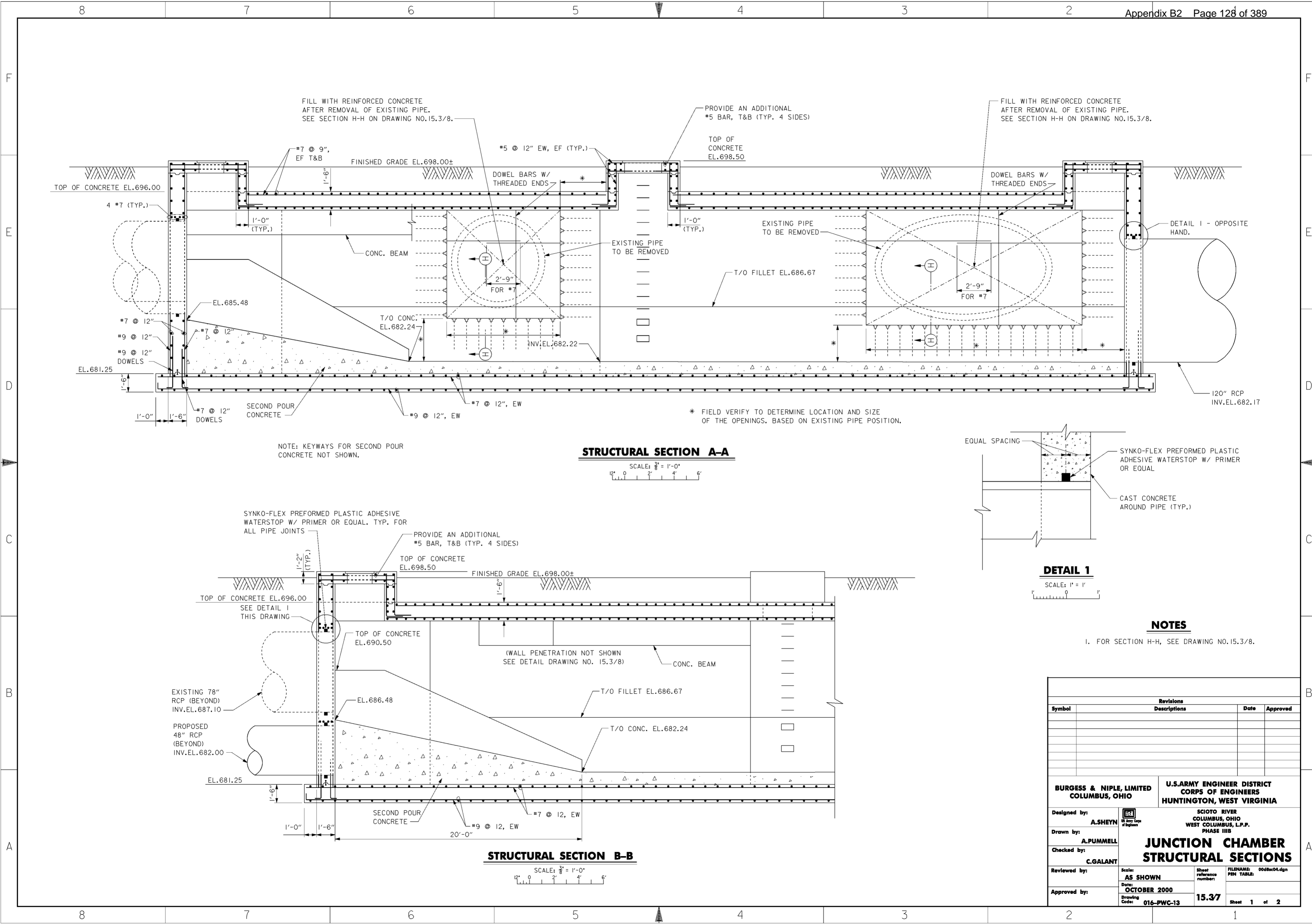
**TYPICAL OBSERVATION PORT PARTIAL PLAN**  
 SCALE:  $\frac{3}{8}'' = 1'-0''$

**NOTES**

1. FOR REINFORCING STEEL SEE DRAWING NO.15.3/8.
2. FOR TYPE "B" WATERSTOP SEE DRAWING NO.20.1/4.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>T.BELL-GAMES</b>	<b>JUNCTION CHAMBER SECTIONS AND DETAILS</b>		
Drawn by: <b>A.PUMMELL</b>			
Checked by: <b>P.CONROY</b>			
Reviewed by: <b>AS SHOWN</b>			
Approved by: Date: <b>OCTOBER 2000</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.3/6</b>	FILENAME: 0008ec03.dgn PEN TABLE:
Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 1	Sheet 1 of 1	Sheet 1 of 1



**STRUCTURAL SECTION A-A**  
 SCALE: 3/8" = 1'-0"  
 12" 0 2' 4' 6'

**DETAIL 1**  
 SCALE: 1" = 1'

**STRUCTURAL SECTION B-B**  
 SCALE: 3/8" = 1'-0"  
 12" 0 2' 4' 6'

**NOTES**  
 1. FOR SECTION H-H, SEE DRAWING NO. 15.3/8.

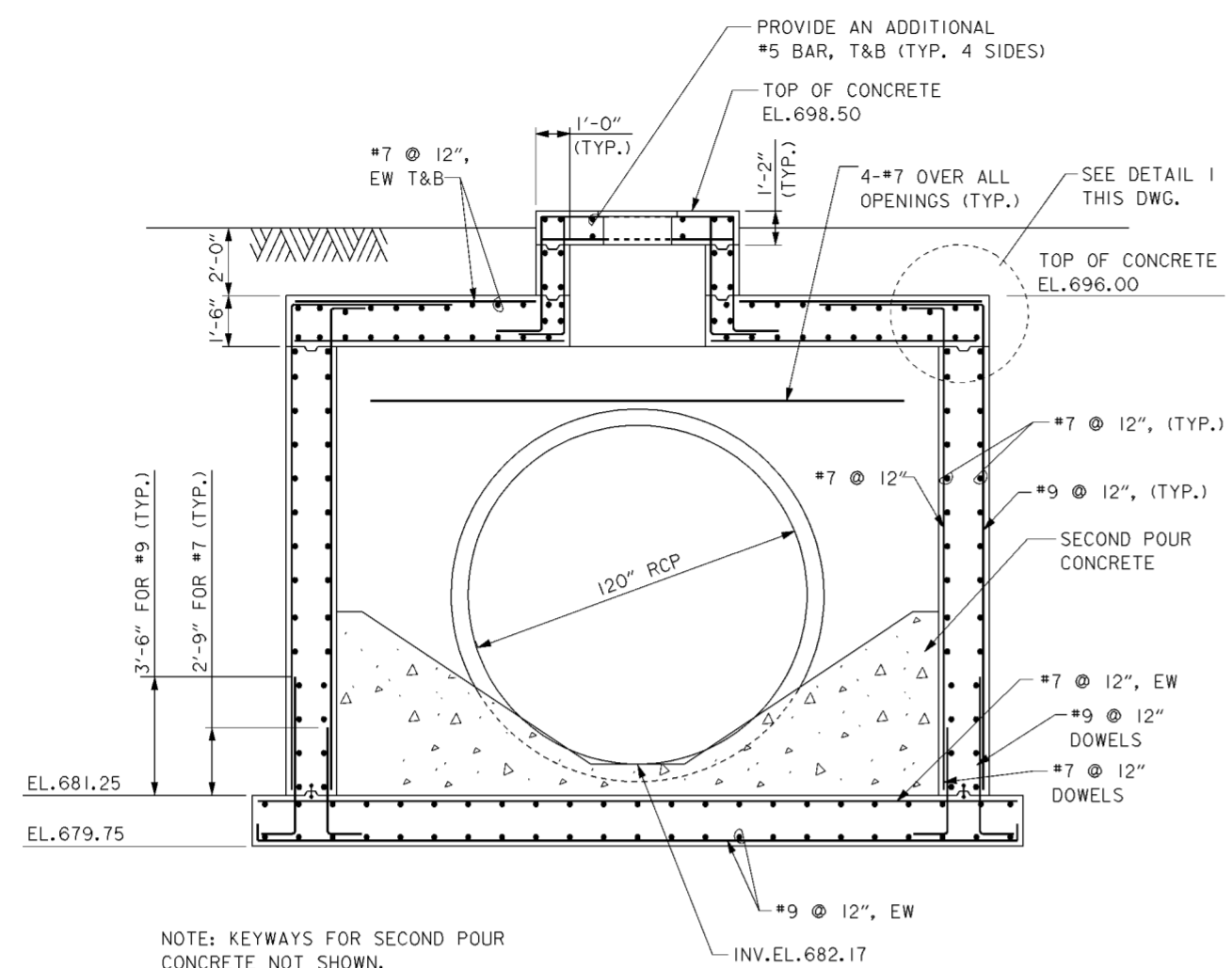
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
	Designed by: <b>A. SHEYIN</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>A. PUMMELL</b>	<b>JUNCTION CHAMBER</b> <b>STRUCTURAL SECTIONS</b>	
Checked by: <b>C. GALANT</b>		
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.3/7</b>
Approved by:	Date: <b>OCTOBER 2000</b>	FILENAME: 0080c04.dgn PIN TABLE:
Drawing Code: <b>016-PWC-13</b>	Drawing Code: <b>15.3/7</b>	Sheet 1 of 2

**WORK AS CONSTRUCTED**

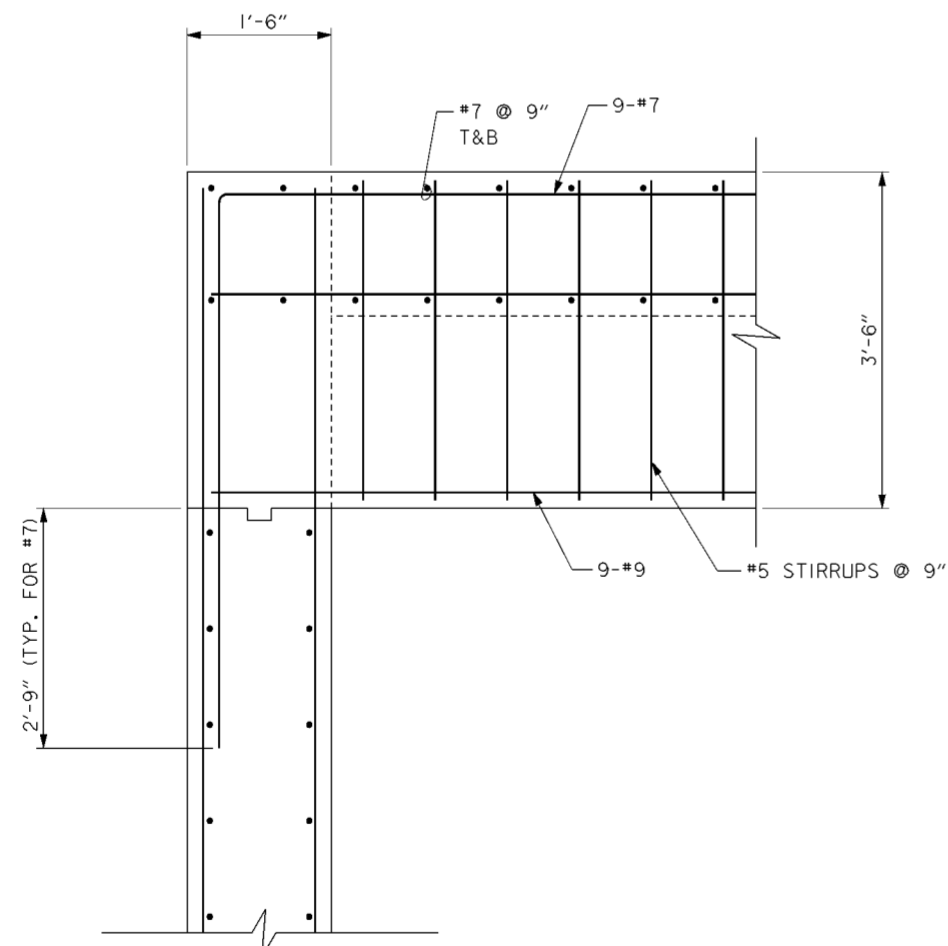




NOTE: KEYWAYS FOR SECOND POUR CONCRETE NOT SHOWN.

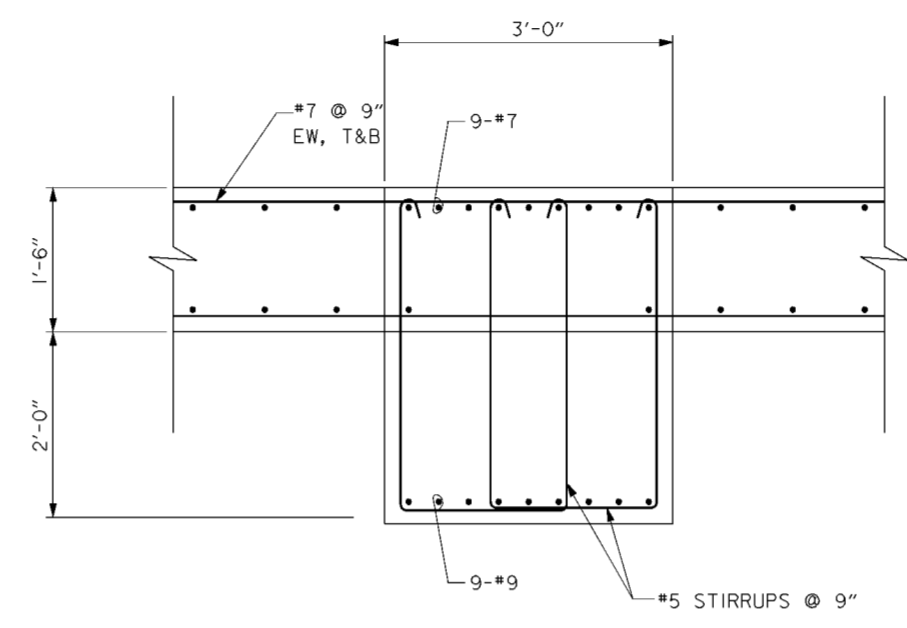
**STRUCTURAL SECTION D-D**

SCALE:  $\frac{3}{8}'' = 1'-0''$   
 12' 0" 2' 4' 6"



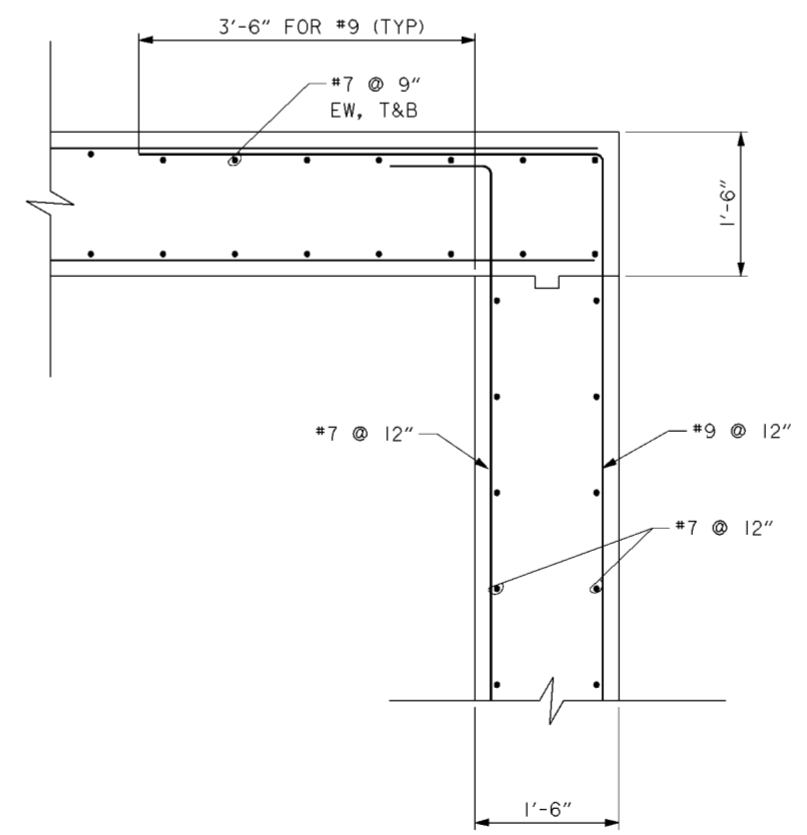
**STRUCTURAL SECTION E-E**

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



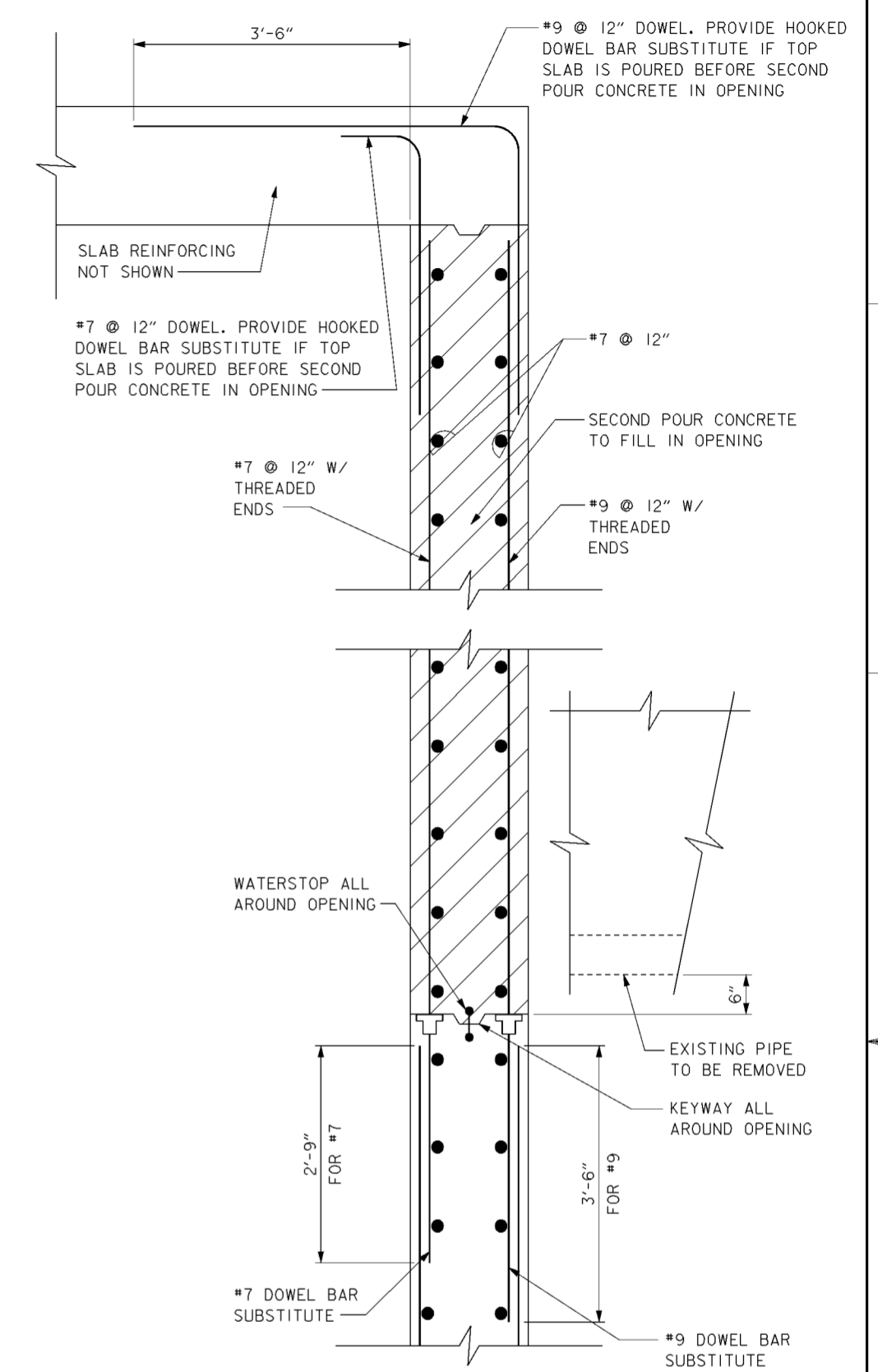
**STRUCTURAL SECTION F-F**

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



**DETAIL 1**

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



**SECTION H-H**

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

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>A.SHEYN</b>	SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>A.PUMMELL</b>	<b>JUNCTION CHAMBER</b> <b>STRUCTURAL DETAILS</b>
Checked by: <b>C.GALANT</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
Sheet reference number: <b>15.3/8</b>	FILENAME: PIN TABLE: 00d8ec05.dgn
Sheet <b>2</b> of <b>2</b>	

**GENERAL NOTES**

- CONFLICT OF DIMENSIONS OR DETAILS SHOWN ON THE DRAWINGS SHALL BE PROMPTLY REPORTED TO THE CONTRACTING OFFICER.
- DIMENSIONS OF EXISTING PIPING, UTILITIES, AND STRUCTURES SHALL BE FIELD MEASURED. THE DIMENSIONS SHOWN WERE TAKEN FROM AVAILABLE RECORDS FOR THE EXISTING STRUCTURES. FIELD VERIFICATION SHALL BE DONE PRIOR TO DETAILING, FABRICATION, AND CONSTRUCTION. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS MUST BE REPORTED IMMEDIATELY TO THE CONTRACTING OFFICER.
- THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND INSPECTIONS OF PROCEDURES. VISITS TO THE SITE BY THE CONTRACTING OFFICER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
- ANY SUPPORT SERVICES PERFORMED BY THE CONTRACTING OFFICER DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES. THESE SUPPORT SERVICES ARE SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS. THEY DO NOT GUARANTEE CONTRACTORS PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- IT IS SOLELY THE CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- ALL STRUCTURES ARE DESIGNED TO BE STABLE AND SELF-SUPPORTING AT THE COMPLETION OF CONSTRUCTION. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE STABILITY AND SAFETY OF THE EXISTING SANITARY SEWER STRUCTURES, THE PROPOSED STRUCTURES, AND THE COMPONENT PARTS. THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING CONSTRUCTION ARE SIMILARLY THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL IS NOT INDICATED ON THE DRAWINGS AND, IF PROVIDED, SHALL BE REMOVED, AS CONDITIONS PERMIT AND REMAIN THE PROPERTY OF THE CONTRACTOR.
- SUPPORT, BRACE, AND SECURE EXISTING AND NEW STRUCTURES AS REQUIRED TO PREVENT DAMAGE AND MOVEMENT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF EXISTING STRUCTURES DURING CONSTRUCTION.
- CHAMBER CONSTRUCTION MAY NEED TO BE FURTHER SEQUENCED TO ACCOMMODATE EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING OF CONSTRUCTION.
- ALL JOINTS SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS. NO HORIZONTAL JOINTS SHALL BE MADE IN SLABS OR BEAMS. CONSTRUCTION JOINTS REQUESTED BY THE CONTRACTOR AND NOT INDICATED ON THE DRAWINGS MUST BE APPROVED BY THE CONTRACTING OFFICER.

**DESIGN LOADS**

LIVE LOAD (TOP SLAB) = 300 PSF  
 LATERAL EARTH PRESSURE = 103 PCF  
 DESIGN FLOOD ELEVATION = 696.00

**DEMOLITION**

ALL DEBRIS, RUBBLE, UNUSABLE MATERIALS, AND ITEMS NOT SALVAGED BY THE CONTRACTING OFFICER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO EXCESS OR UNUSABLE EXCAVATED SOIL AND PIPE.

**SANITARY SEWER FLOWS**

EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR MAY ELECT TO UTILIZE BYPASS PUMPING FOR CONSTRUCTION OF THE JUNCTION CHAMBER. BELOW IS DRY AND WET WEATHER INFORMATION FOR THE EXISTING SANITARY SEWERS. PAYMENT COST FOR MAINTAINING EXISTING FLOWS OR BYPASS PUMPING SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

**DRY WEATHER FLOW DATA FOR EXISTING SEWERS**

TRUNK SEWER NAME	SEWER DIAMETER	WATER DEPTH	FLOW
	in	in	MGD
SCIOTO MAIN TRUNK SEWER	90	13-27	18-19
WEST SIDE RELIEF SEWER	78	15-22	3.5-8
WEST SIDE SANITARY SEWER	42	8-10	0.5-1.0

**WET WEATHER FLOW DATA FOR EXISTING SEWERS**

TRUNK SEWER NAME	SEWER DIAMETER	WATER DEPTH	FLOW
	in	in	MGD
SCIOTO MAIN TRUNK SEWER	90	110	64
WEST SIDE RELIEF SEWER	78	110	35
WEST SIDE SANITARY SEWER	42	72	41

WET WEATHER FLOW REPRESENTS PEAK WATER DEPTH AND FLOW DUE TO A 2-YEAR STORM ON 7/8/96. TOTAL RAINFALL WAS 2.2 - 2.9 INCHES WITH A PEAK INTENSITY OF 1.5 - 1.7 IN/HR. RAINFALL DURATION WAS 4 HOURS.

**CONSTRUCTION SEQUENCE FOR JUNCTION CHAMBER**

THE FOLLOWING IS A SUGGESTED SEQUENCE OF STEPS FOR PERFORMING THE RELOCATION AND JOINING OF THE EXISTING 90-INCH SCIOTO MAIN TRUNK SEWER, THE EXISTING 78-INCH WEST SIDE RELIEF SEWER, AND THE 48-INCH WEST SIDE SANITARY SEWER INTO THE NEW 120-INCH SCIOTO MAIN SANITARY SEWER. THE FINAL CONNECTION TO THE 120-INCH SCIOTO MAIN SEWER SHALL NOT BE MADE UNTIL THE CITY OF COLUMBUS HAS COMPLETED ITS PORTION OF THE 120-INCH SCIOTO MAIN SEWER.

IT IS ANTICIPATED THAT THE CITY OF COLUMBUS WILL MAKE THE SCIOTO MAIN SANITARY SEWER AVAILABLE FOR CONNECTION NO LATER THAN DECEMBER 1, 2001.

THIS SEQUENCE IS PROVIDED AS ONE POSSIBLE SCHEME FOR THE CONTRACTORS INFORMATION. FLOWS IN THE EXISTING 90-, 78-, AND 48-INCH SEWERS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW AND APPROVAL BY THE CONTRACTING OFFICER, HIS OWN CONSTRUCTION SEQUENCE OF OPERATION FOR ACHIEVING THE SAME INTENT.

1. CONSTRUCT THE JUNCTION CHAMBER BASE SLAB AND WALLS, INCLUDING THE CONCRETE FILLETS, AROUND THE EXISTING 90- AND 78-INCH LINES. PROVIDE SUPPORT FOR THESE LINES EXTENDING OUTSIDE OF THE VERTICAL WALLS OF THE JUNCTION CHAMBER.

ALTERNATIVELY, CONSTRUCT THE JUNCTION CHAMBER BASE SLAB AND WALLS IN SECTIONS, PROVIDING SUPPORT TO EACH SECTION OF PIPE BY MEANS OF INDIVIDUAL HAUNCHES SET ON BASE SLAB. INITIAL SUPPORT OF PIPE CAN BE PROVIDED FROM I-BEAM RUN ALONG TOP OF PIPE. NOTE THAT THIS ALTERNATIVE WILL REQUIRE POURING BASE SLAB AND WALLS IN SMALL SECTIONS.

IN EITHER CASE, PIPE SUPPORTS ARE TO BE REMOVED PRIOR TO COMPLETING CONSTRUCTION OF TOP SLAB OF STRUCTURE.

2. CONCURRENT WITH THIS CONSTRUCTION, CONSTRUCT THE 120-INCH SCIOTO MAIN SANITARY SEWER. THE 120-INCH SCIOTO MAIN SANITARY SEWER MUST BE PREPARED TO BE BROUGHT ON-LINE PRIOR TO THE TIME THE 90- AND 78-INCH LINES ARE DIVERTED WITHIN THE JUNCTION CHAMBER. THE CONTRACTOR SHALL COORDINATE THESE RELATED ACTIVITIES.

3. ALSO CONCURRENT WITH THE ABOVE REFERENCED ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT THE 48-INCH LINE (TO REPLACE/DIVERT THE EXISTING 42-INCH WEST SIDE SANITARY SEWER) BACK TO AND INCLUDING MANHOLE NMH\*9.

4. COORDINATE DIVERSION OF THE 90- AND 78-INCH LINES WITH AN ANTICIPATED PERIOD OF LOW FLOW. DIVERSION OF THE 90- AND 78-INCH LINES MAY BE COMPLETED PRIOR TO POURING THE TOP SLAB OF THE JUNCTION CHAMBER. IN SUCH CASE, THE CONTRACTOR SHALL TAKE MEASURES TO PROTECT THE EXPOSED PORTIONS OF THE STRUCTURE.


5. CONSTRUCT TEMPORARY BULKHEAD BETWEEN 90- AND 78-INCH LINES TO BE USED TO DIVERT FLOW FROM 90-INCH TO NEW 120-INCH LINE.

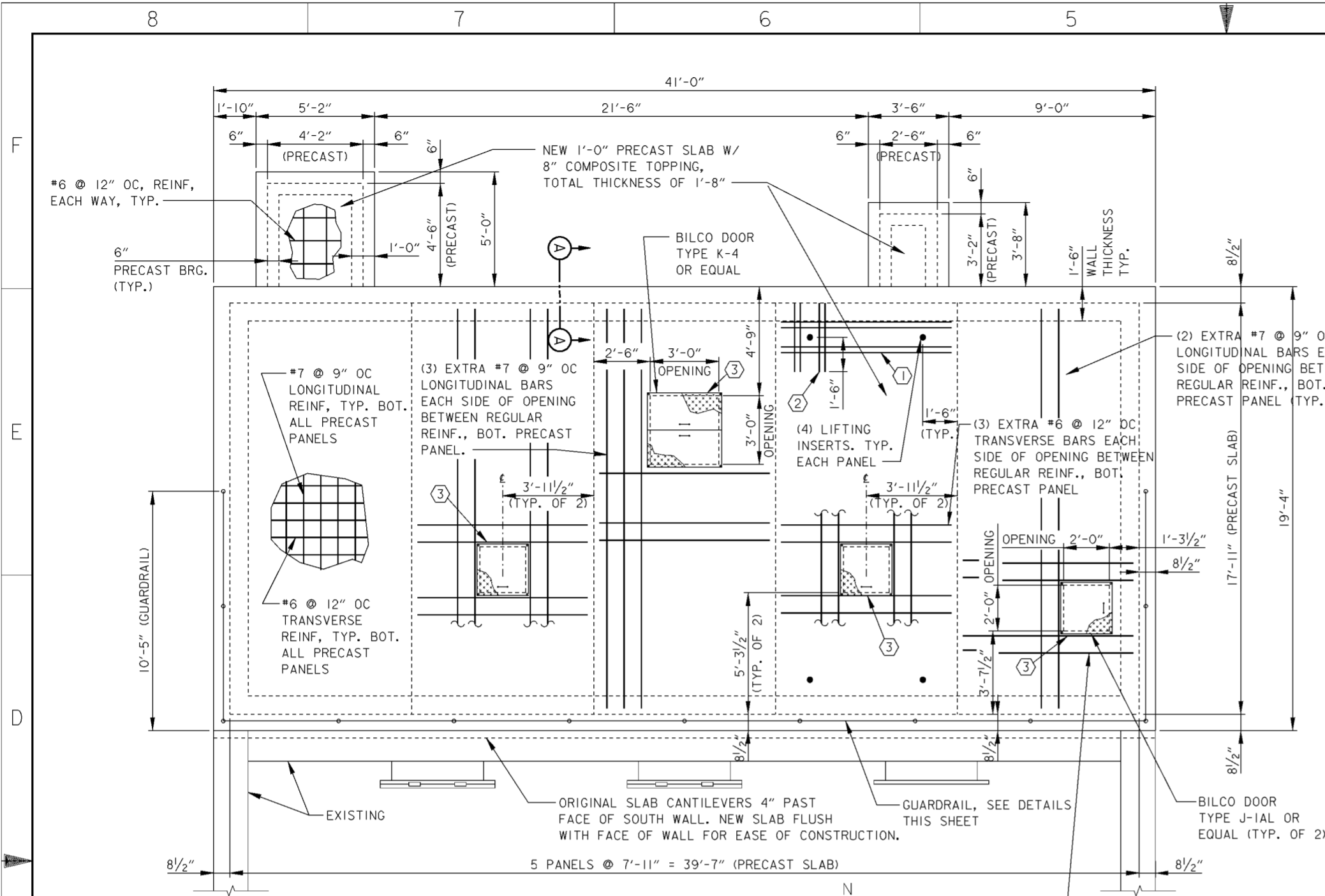
6. SAWCUT THE 90-INCH LINE WITHIN THE JUNCTION CHAMBER AND REMOVE COMPLETELY. ON THE EXTERIOR OF THE CHAMBER, REMOVE THE 90-INCH LINE FROM THE EXCAVATION. COMPLETE THE CONSTRUCTION OF THE WALL IN THE AREA OF THE ABANDONED PORTION OF THE 90-INCH LINE. PERMANENTLY PLUG DOWNSTREAM PORTION OF 90-INCH TO COMPLETE ABANDONMENT OF THAT PORTION OF THE LINE.

7. SAWCUT THE 78-INCH LINE WITHIN THE JUNCTION CHAMBER AND REMOVE COMPLETELY. REMOVE ALL SUPPORTS USED FOR BOTH THE 90- AND 78-INCH LINES AND REMOVE THE 78-INCH LINE WITHIN THE AREA OF EXCAVATION. COMPLETE THE CONSTRUCTION OF THE WALL IN THE AREAS OF THE ABANDONED PORTION OF THE 78-LINE AND ANY REMOVED PIPE SUPPORTS. PERMANENTLY PLUG DOWNSTREAM PORTION OF 78-INCH TO COMPLETE ABANDONMENT OF THAT PORTION OF THE LINE.

8. COMPLETE THE DIVERSION OF THE WEST SIDE SANITARY SEWER REMOVING THE TEMPORARY PLUG IMMEDIATELY PRIOR TO COMPLETING THE DIVERSION. PERMANENTLY PLUG THE DOWNSTREAM PORTION OF THE 42-INCH LINE TO COMPLETE ABANDONMENT OF THAT PORTION OF THE LINE.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>T.BELL-GAMES</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB
		Drawn by: <b>T.MULLINS</b>	
Checked by: <b>R.ROMAN</b>	<b>JUNCTION CHAMBER</b> <b>GENERAL NOTES</b>		FILENAME: 00d9n01.dgn
Reviewed by:	Scale: NONE	Sheet reference number: 15.39	PEN TABLE:
Approved by:	Date: OCTOBER 2000	Drawing Code: 016-PWC-13	Sheet 1 of 1

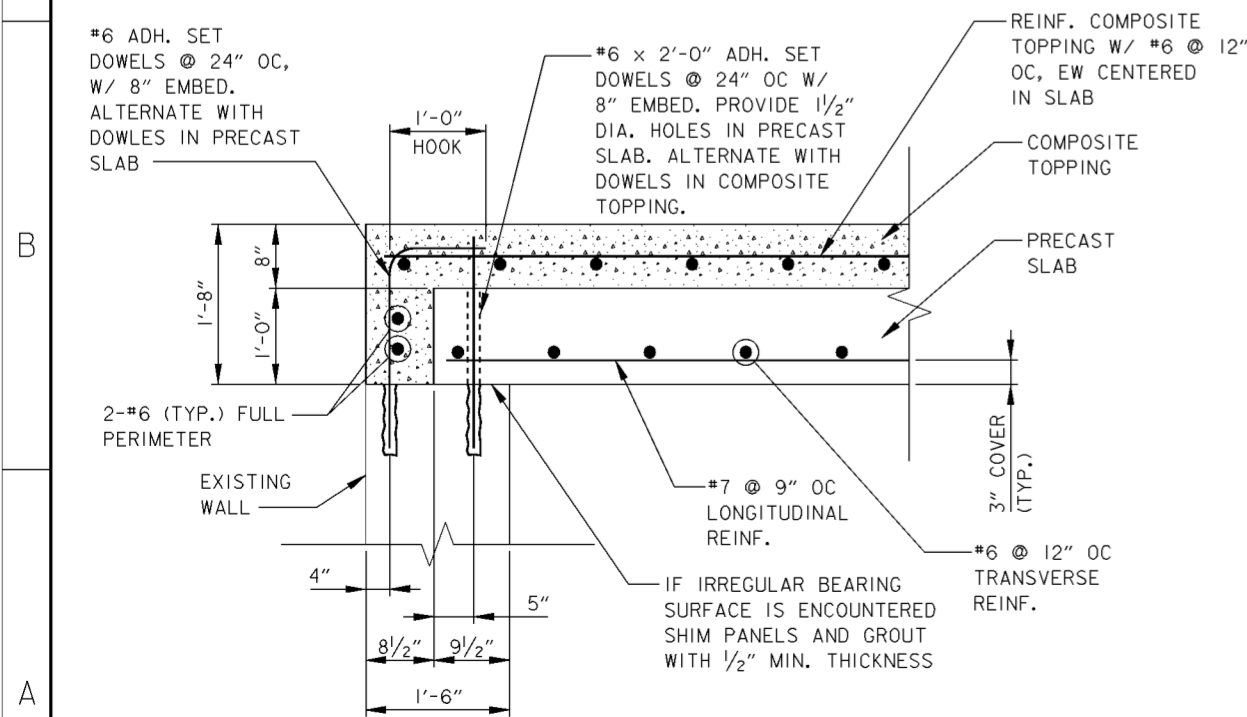


**TOP SLAB PLAN**

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

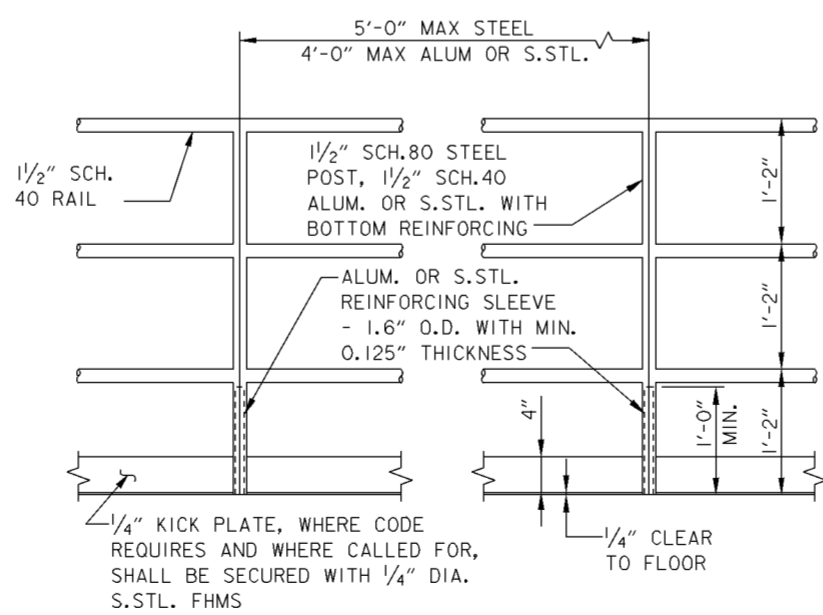
**CODING NOTES:**

- ① PLACE (2) #4 TRANSVERSE BARS FULL WIDTH ON EACH SIDE OF LIFTING INSERT TOP OF PRECAST PANEL, 2" COVER (TYP.).
- ② PLACE (2) #4 LONGITUDINAL BARS, 1'-6" BEYOND LIFTING INSERT TOP OF PRECAST PANEL, 2" COVER (TYP.).
- ③ SEE NOTE 4 IN PRECAST SLAB NOTES FOR REINF. IN COMPOSITE TOPPING AROUND OPENINGS.



**SECTION A-A**

SCALE: 1" = 1'

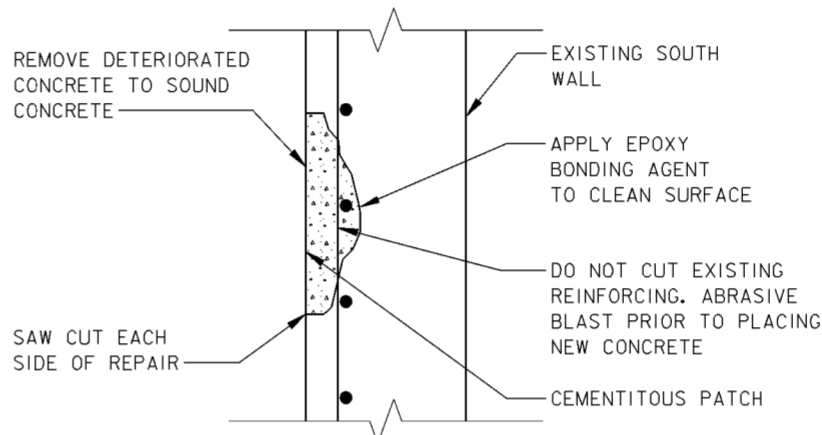


**STANDARD RAILING**

SCALE: NONE

**WALL REPAIR NOTES**

1. CONTRACTOR SHALL SUPPLY A UNIT PRICE FOR CONCRETE REPAIR OF FACE OF SOUTH WALL ONLY. THE UNIT PRICE SHALL BE ON A PER SQUARE FOOT BASIS OF SURFACE REPAIR.
2. APPROXIMATELY 30 SQUARE FEET OF WALL TO BE REPAIRED (AS OPTION) PER "SOUTH WALL REPAIR DETAIL" THIS SHEET.
3. BONDING AGENTS
  1. CORR-BOND BONDING AGENT. EUCLID CHEMICAL COMPANY.
  2. EMACO P-24 BONDING AGENT. MASTERS BUILDERS TECHNOLOGIES.
  3. SIKA ARMATEC 110 BONDING AGENT. SIKA CORPORATION.
4. VERTICAL SURFACE REPAIR MORTAR
  1. VERTICOAT SUPREME, MICROSILICA AND LATEX MODIFIED ONE COMPONENT NONSAG REPAIR MORTAR. EUCLID CHEMICAL COMPANY.
  2. EMACO S88-CI REPAIR MORTAR. MASTER BUILDERS TECHNOLOGIES.
  3. SIKATOP 123 PLUS, A TWO-COMPONENT POLYMER MODIFIED MORTAR FOR REPAIRS FROM 1/8-INCH TO 1 1/2-INCH WITH GREATER DEPTHS USING 1 1/2-INCH LIFTS. SIKA CORPORATION.



**SOUTH WALL REPAIR DETAIL**

SCALE: NONE

**NOTES:**

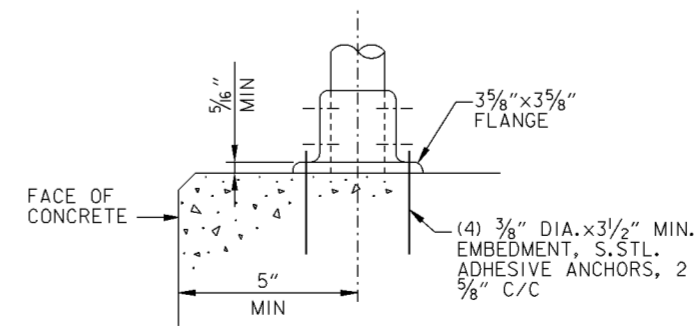
1. DIMENSIONS SHOWN WERE TAKEN FROM FIELD MEASUREMENTS. CONTRACTOR SHALL FIELD VERIFY EXISTING LOCATION, ORIENTATION, AND DIMENSIONS OF EXISTING TOP CONCRETE SLAB.
2. BRACE TOP OF RELIEF CHAMBER WALLS PRIOR TO REMOVING THE EXISTING TOP SLAB.
3. REMOVE EXISTING CONCRETE TOP SLAB. REPLACE TOP SLAB W/ PRECAST SLAB W/ COMPOSITE TOPPING.
4. ALL CONCRETE,  $f'c=4000$  PSI. ALL REINFORCING STEEL SHALL BE GRADE 60 MINIMUM.
5. TOP SLAB DESIGN LIVE LOAD, LL=150 PSF.

**PRECAST SLAB NOTES:**

1. PRECAST SLAB SHALL BE 1'-0" THICK.
2. PROVIDE GROUT SLEEVES IN THE PRECAST SLAB FOR ADHESIVE SET DOWEL BARS. DRILL EXIST/NEW WALLS FOR DOWELS AND GROUT SLEEVES SOLID AFTER INSTALLATION OF THE BARS.
3. PRECAST SLAB SHALL HAVE BROOM FINISH AND SURFACE SHOULD MEET MINIMUM  $1/4''$  ROUGHNESS AMPLITUDE.
4. SEE PLAN FOR EXTRA REINFORCING AROUND OPENINGS IN CONCRETE. PLACE BARS IN PRECAST PANELS (AS SHOWN) AND PLACE (1) #6 BARS EACH SIDE OF OPENING 3 INCHES FROM SIDE OF OPENING EXTENDING 2'-0" PAST OPENING, IN THE COMPOSITE TOPPING.
5. SEE DETAILS FOR CONCRETE SLAB OPENING COVER AND FRAME AND HANDRAIL.
6. LIFTING INSERTS SHALL BE CAST IN PRECAST PANEL, LOCATION AND QUANTITY PER THE PLANS. LIFTING INSERTS SHALL BE MINIMUM OF 1'-6" FROM EDGE OF PRECAST SLAB. PROVIDE 4-TON CAPACITY "P-92-H FLEET-LIFT TWO-HOLE ERECTION ANCHOR" WITH "P-98-T TENSION REINFORCEMENT" BY DAYTON SUPERIOR OR APPROVED EQUAL.

**COMPOSITE TOPPING NOTES**

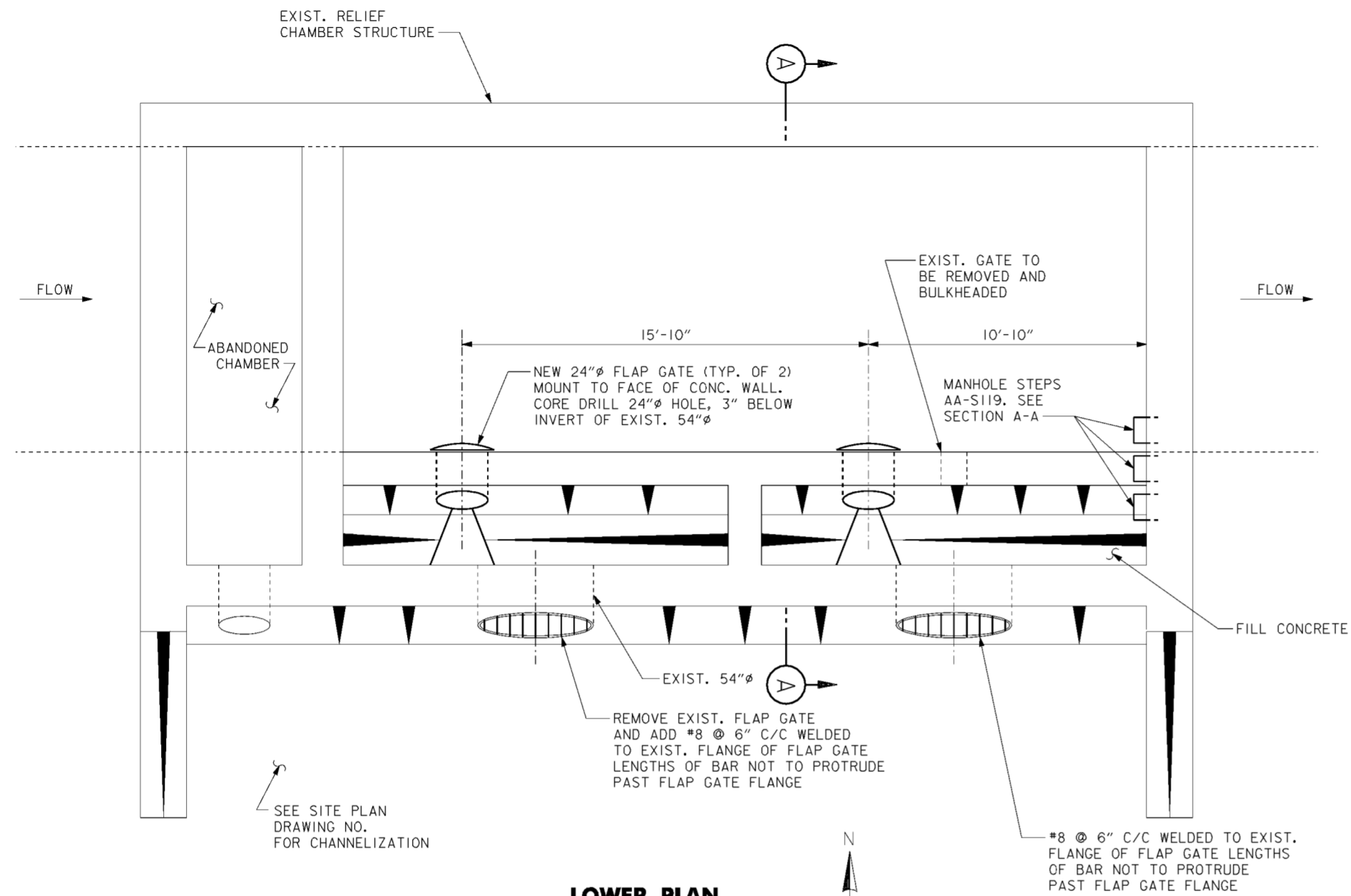
1. TOPPING SHALL BE MINIMUM 0'-8" THICK CONCRETE.
2. REINFORCE WITH #6 @ 12" OC, EW CENTERED IN THE TOPPING. TOPPING REINFORCING ORIENTATION SHALL BE THE SAME AS THE PRECAST SLAB REINFORCING.
3. PRIOR TO PLACEMENT REMOVE ALL LAITENCE, GREASE, DIRT, OIL, AND OTHER CONTAMINANTS FROM SLAB. THOROUGHLY DAMPEN SLAB SURFACE BUT DO NOT LEAVE STANDING WATER. OVER THE DAMPENED SURFACE APPLY SPECIFIED BONDING COMPOUND (REWETTABLE OR NONWETTABLE) OR EPOXY ADHESIVE. PLACE TOPPING MIX AFTER REWETTABLE BONDING COMPOUND HAS DRIED OR WHILE NONWETTABLE BONDING COMPOUND OR EPOXY ADHESIVE IS STILL TACKY.



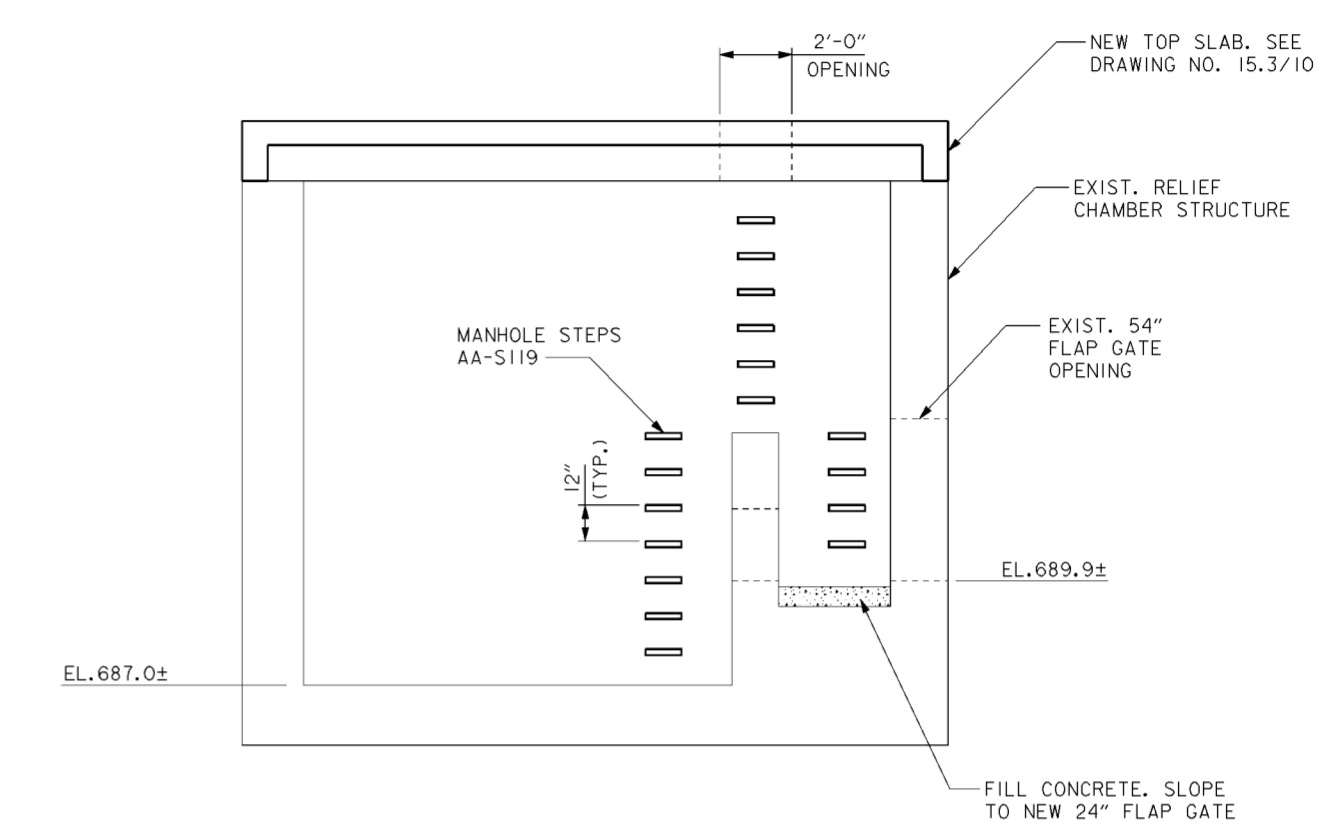
**SURFACE MOUNTING STANDARD RAILING**

SCALE: NONE

Revisions		Date	Approved
Symbol	Descriptions		
NEW DRAWING CHANGE REQUEST MC041		12/02	P.O.C.
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	T. MARSH	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B  <b>RELIEF CHAMBER</b> <b>TOP SLAB REPLACEMENT</b>	
Drawn by:	T. MULLINS		
Checked by:	C. GALANTP. CONROY		
Reviewed by:			
Approved by:		Scale:	AS SHOWN
		Date:	OCTOBER 2000
		Drawing Code:	016-PWC-13
		Sheet reference number:	15.3/10
		FILENAME:	relief.dgn
		PIN TABLE:	
		Sheet	1 of 1



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



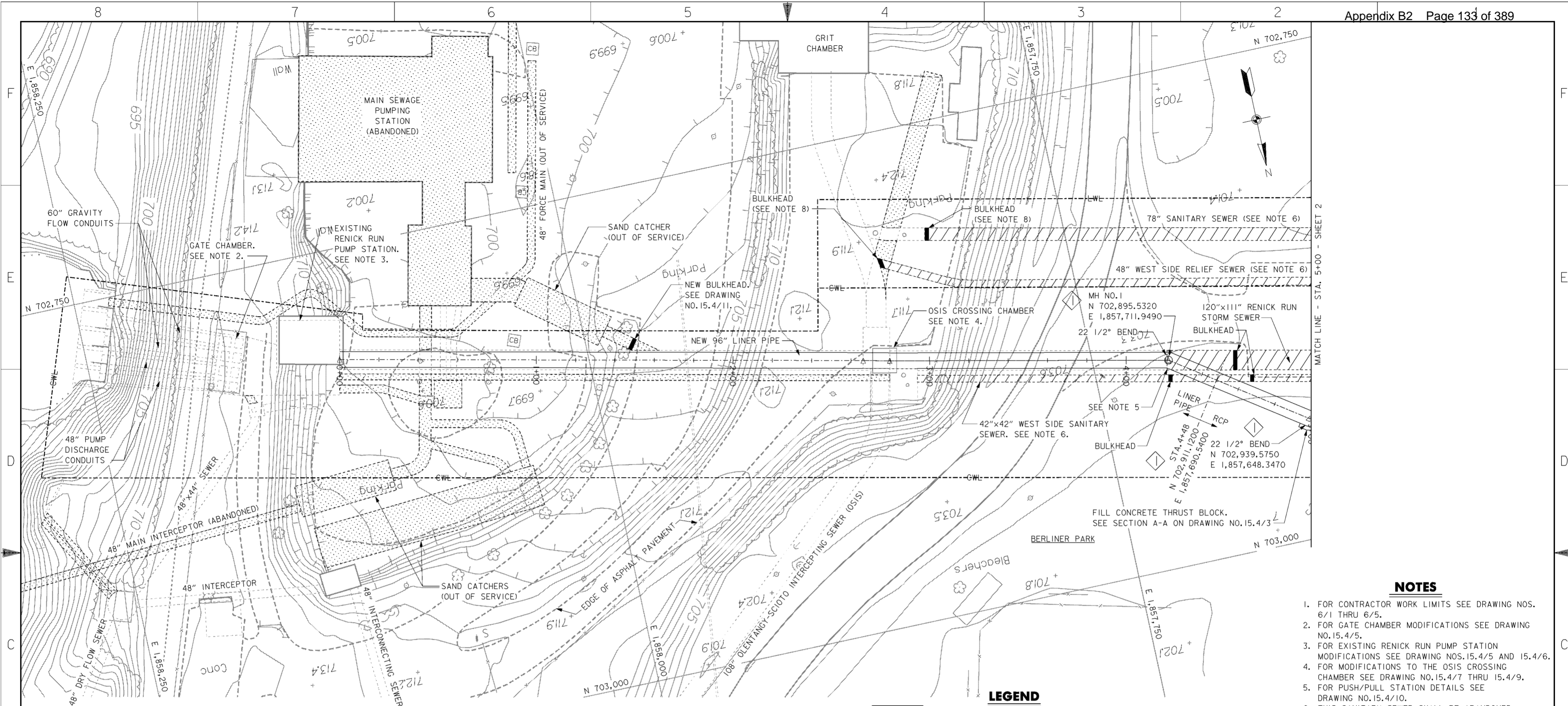
**SECTION A-A**  
SCALE:  $\frac{1}{8}'' = 1'-0''$

**NOTES**

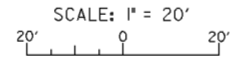
- STEPS SHALL BE IN ACCORDANCE WITH THE CITY OF COLUMBUS STANDARD DRAWING AA-S119.
- FLAP VALVE SHALL BE RODNEY HUNT SERIES FV-AC OR APPROVED EQUAL.

Revisions			
Symbol	Descriptions	Date	Approved
⚡ ADDED BY CONTRACT MODIFICATION LETTER MC060 9/03 P.O.C.			
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>W. HORNING</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>A. PUMMELL</b>	<b>RELIEF CHAMBER</b> <b>LOWER SLAB PLAN &amp; DETAILS</b>		
Checked by: <b>P. CONROY</b>			
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.3/11</b>	FILENAME: PIN TABLE: <b>ovrflow.dgn</b>
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>1</b> of <b>1</b>

**WORK AS CONSTRUCTED**



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

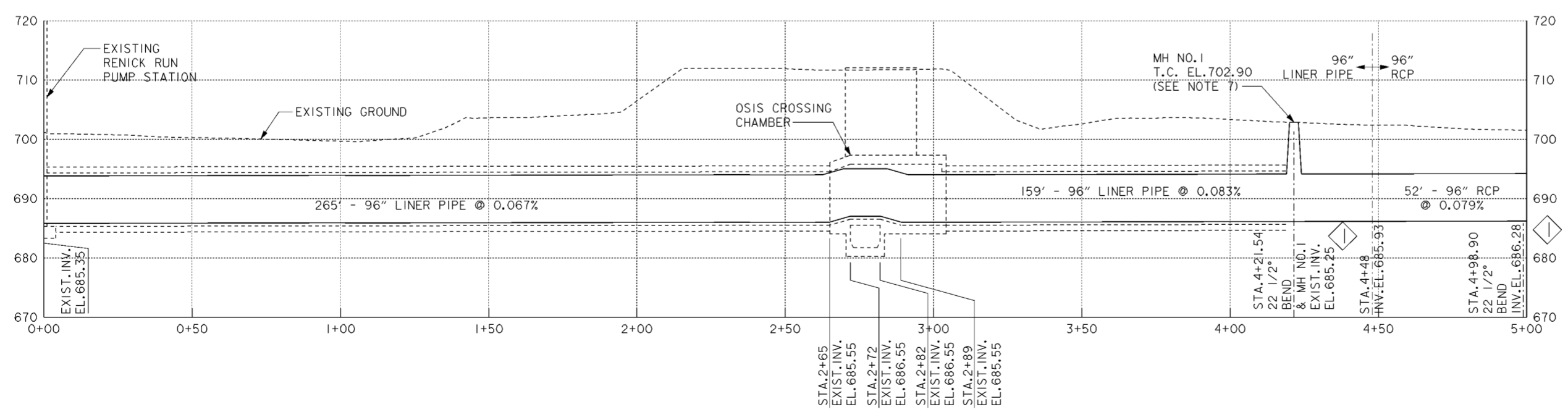


**LEGEND**

- EXISTING STRUCTURES AND SEWERS ABANDONED/OUT OF SERVICE
- ITEM TO BE REMOVED, ABANDONED OR FILLED IN PLACE IN ACCORDANCE WITH CMSC ITEM 202.

**NOTES**

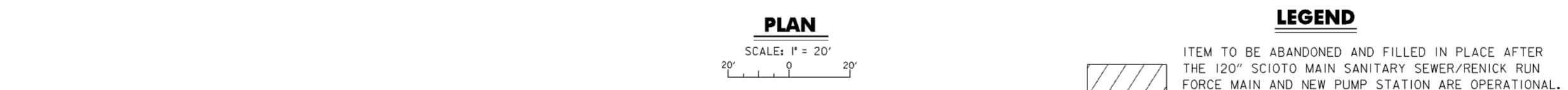
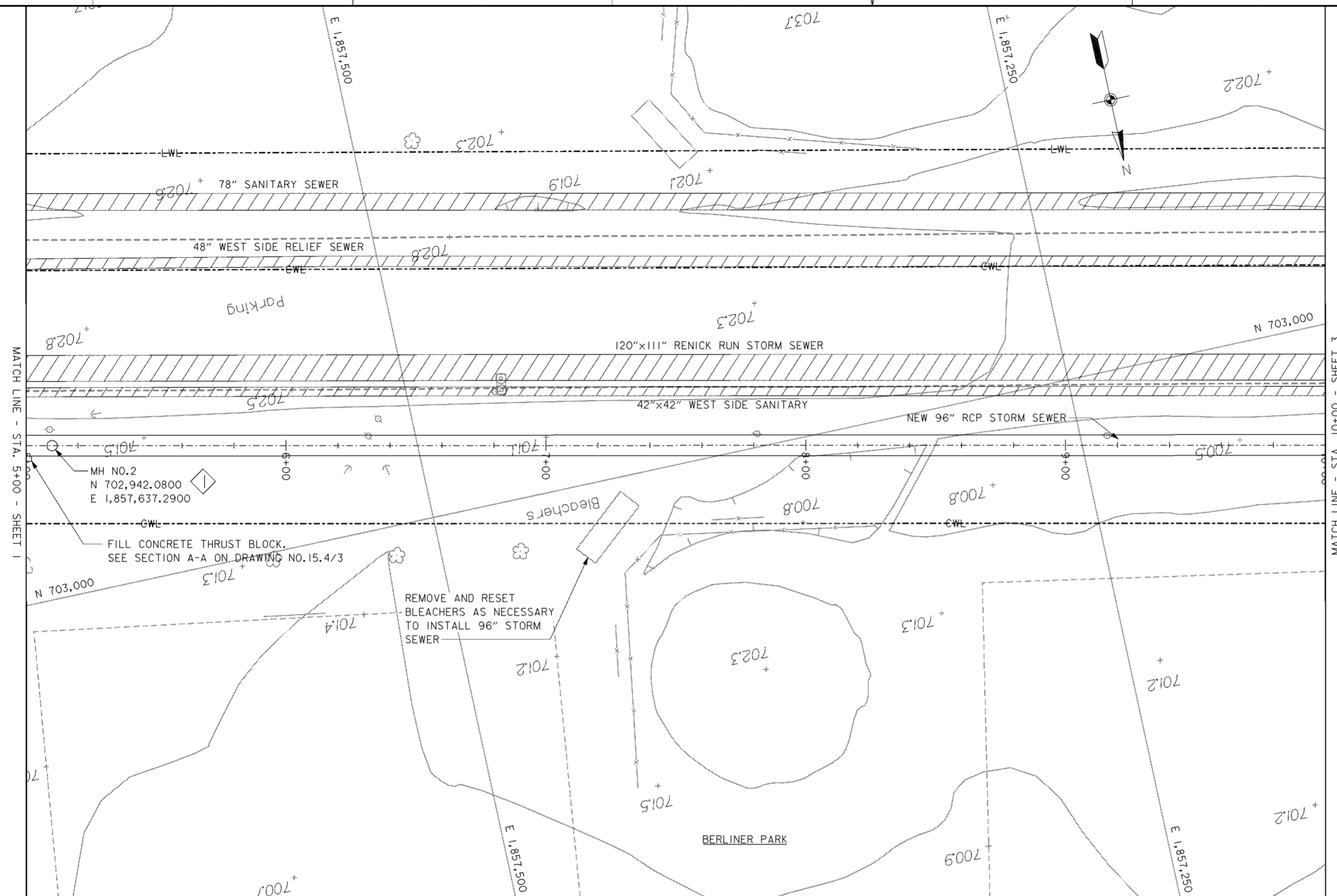
- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
- FOR GATE CHAMBER MODIFICATIONS SEE DRAWING NO. 15.4/5.
- FOR EXISTING RENICK RUN PUMP STATION MODIFICATIONS SEE DRAWING NOS. 15.4/5 AND 15.4/6.
- FOR MODIFICATIONS TO THE OSIS CROSSING CHAMBER SEE DRAWING NO. 15.4/7 THRU 15.4/9.
- FOR PUSH/PULL STATION DETAILS SEE DRAWING NO. 15.4/10.
- THIS SANITARY SEWER SHALL BE ABANDONED AFTER THE 120" SCIOTO MAIN SANITARY SEWER IS OPERATIONAL.
- MANHOLE NOS. 1-4 SHALL BE FURNISHED WITH BOLT-DOWN GASKETED FRAMES AND COVERS, NEENAH R-1916-H, EAST JORDAN OR EQUAL.
- THE CONTRACTOR SHALL INSTALL THE BULKHEADS FROM THE UPSTREAM SIDE OF THE SEWER AFTER THE SEWERS ARE ABANDONED.



**PROFILE**

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>P. CONROY</b>			
Drawn by: <b>T. MULLINS</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Checked by: <b>R. ROMAN</b>	<b>RENICK RUN</b> <b>PLAN AND PROFILE</b>		
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.41</b>	FILENAME: PIN TABLE: a0d7pp01.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>1</b> of <b>4</b>



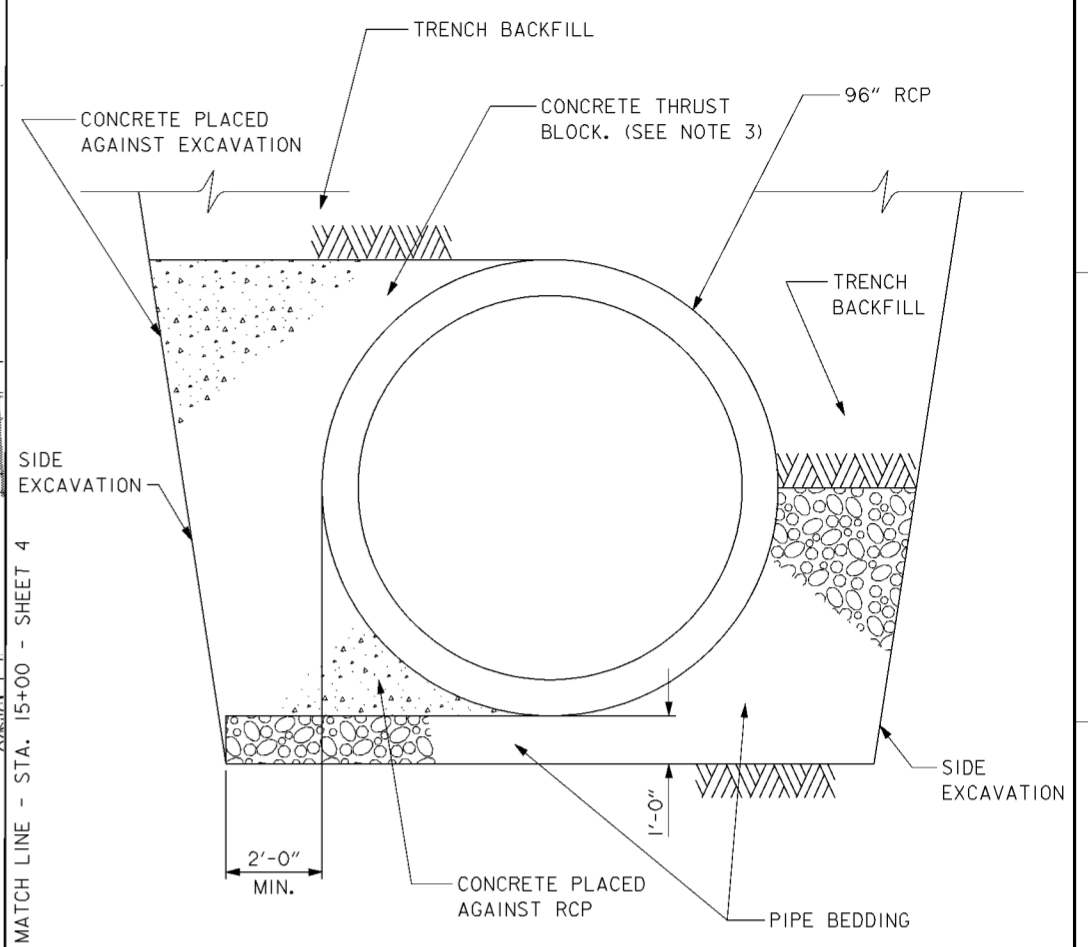
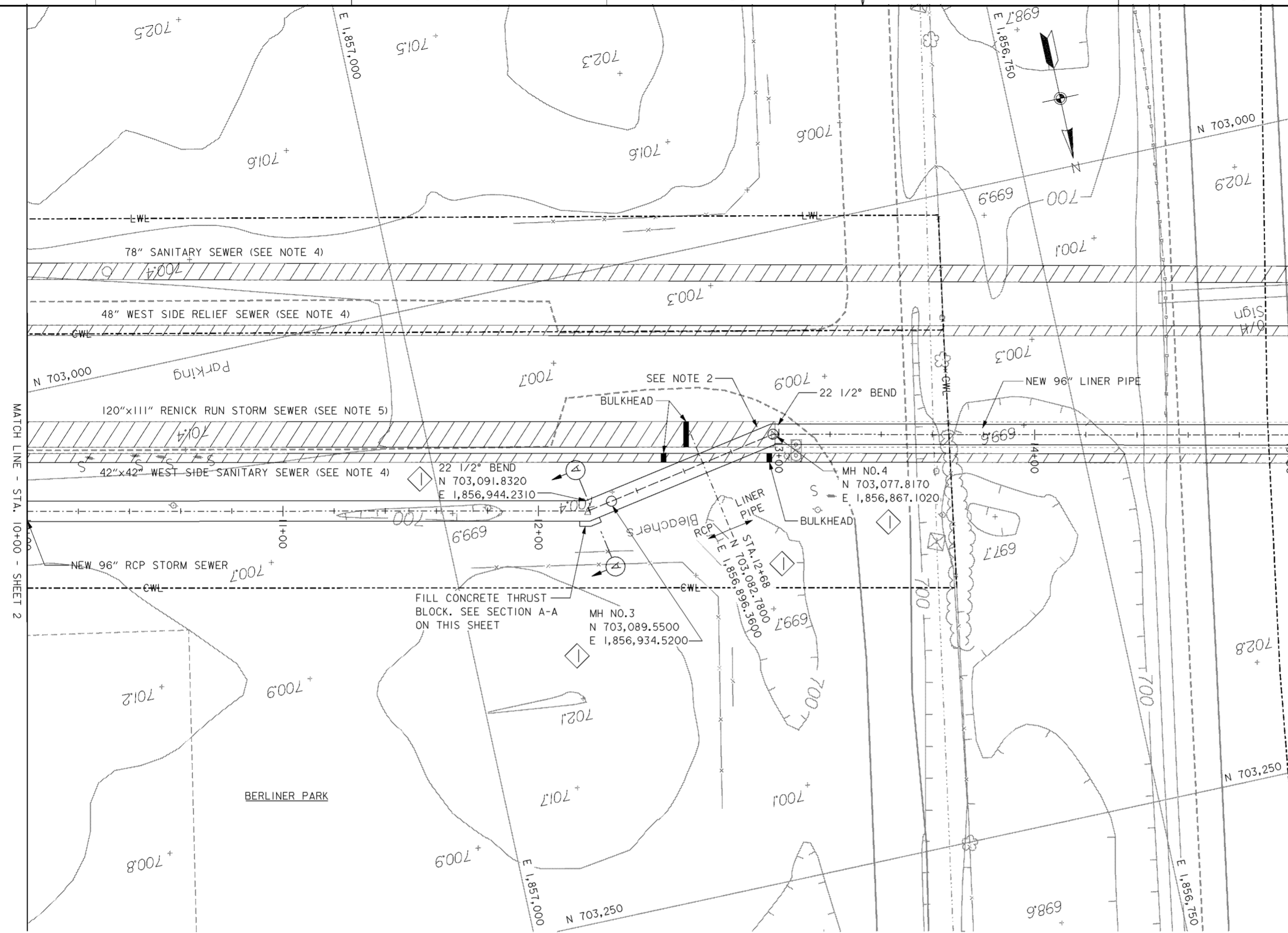
**PLAN**  
SCALE: 1" = 20'

**LEGEND**  
ITEM TO BE ABANDONED AND FILLED IN PLACE AFTER THE 120" SCIOTO MAIN SANITARY SEWER/RENICK RUN FORCE MAIN AND NEW PUMP STATION ARE OPERATIONAL. THESE SHALL BE ABANDONED IN ACCORDANCE WITH CMSC ITEM 202.

**NOTES**

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

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	P. CONROY	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>RENICK RUN</b> <b>PLAN AND PROFILE</b>	
Drawn by:	T. MULLINS		
Checked by:	R. ROMAN		
Reviewed by:			
Approved by:			
Scale:	AS SHOWN	Sheet reference number:	15.42
Date:	OCTOBER 2000	FILENAME:	o0d7pp02.dgn
Drawing Code:	016-PWC-13	PIN TABLE:	
		Sheet 2 of 4	



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

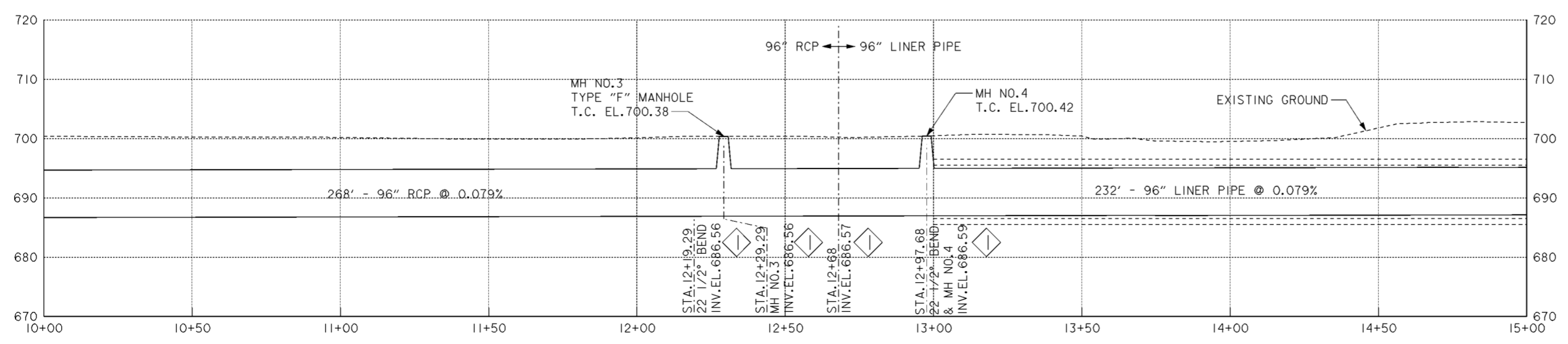
**NOTES**

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR PUSH STATION DETAILS SEE DRAWING NO. 15.4/10.
3. THE CONCRETE THRUST BLOCK SHALL EXTEND A MINIMUM OF 4'-0" IN EACH DIRECTION FROM THE CENTER ON THE BEND. THE THRUST BLOCK MAY BE PLACED AGAINST REQUIRED BACKFILL.
4. ITEM TO BE ABANDONED AND FILLED IN PLACE AFTER THE 120" SCIOTO MAIN SANITARY SEWER IS OPERATIONAL.
5. ITEM TO BE ABANDONED AND FILLED IN PLACE AFTER THE RENICK RUN FORCE MAIN AND NEW PUMP STATION ARE OPERATIONAL.

**LEGEND**

ITEM TO BE REMOVED, ABANDONED OR FILLED IN PLACE IN ACCORDANCE WITH CMSC ITEM 202.

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

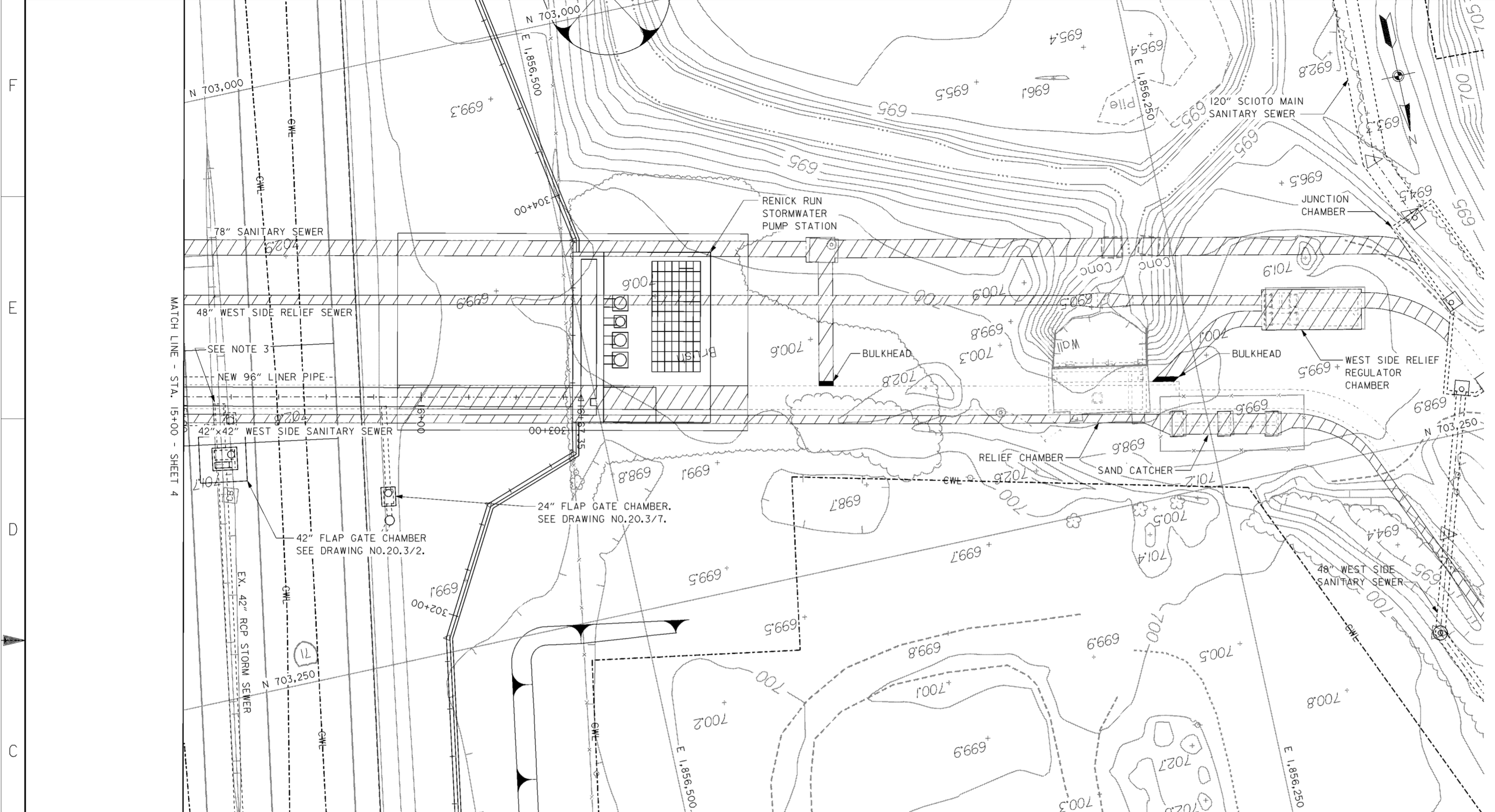


**PROFILE**

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>RENICK RUN</b> <b>PLAN AND PROFILE</b>	
Designed by: <b>P. CONROY</b>	P. CONROY & ASSOCIATES 2000 W. 10th Ave. Columbus, OH 43202	Checked by: <b>R. ROMAN</b>	FILENAME: a0d7pp03.dgn
Drawn by: <b>T. MULLINS</b>		Reviewed by: <b>AS SHOWN</b>	Date: <b>OCTOBER 2000</b>
Approved by: _____	Drawing Code: <b>016-PWC-13</b>	Sheet <b>3</b> of <b>4</b>	_____

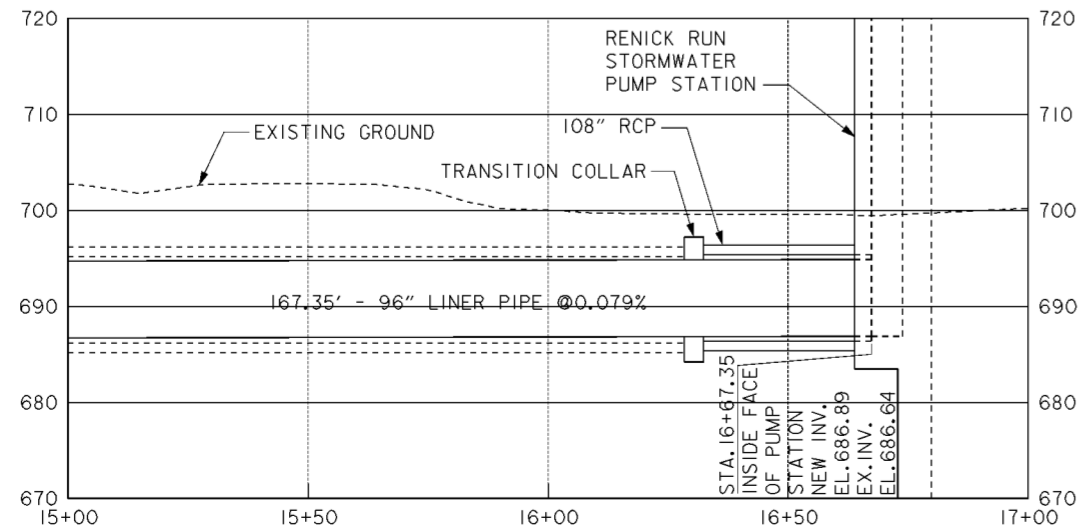


**PLAN**  
SCALE: 1" = 20'

**LEGEND**

ITEM TO BE REMOVED, ABANDONED OR FILLED IN PLACE SEE DEMOLITION NOTES ON DRAWING NO. 15.3/1.

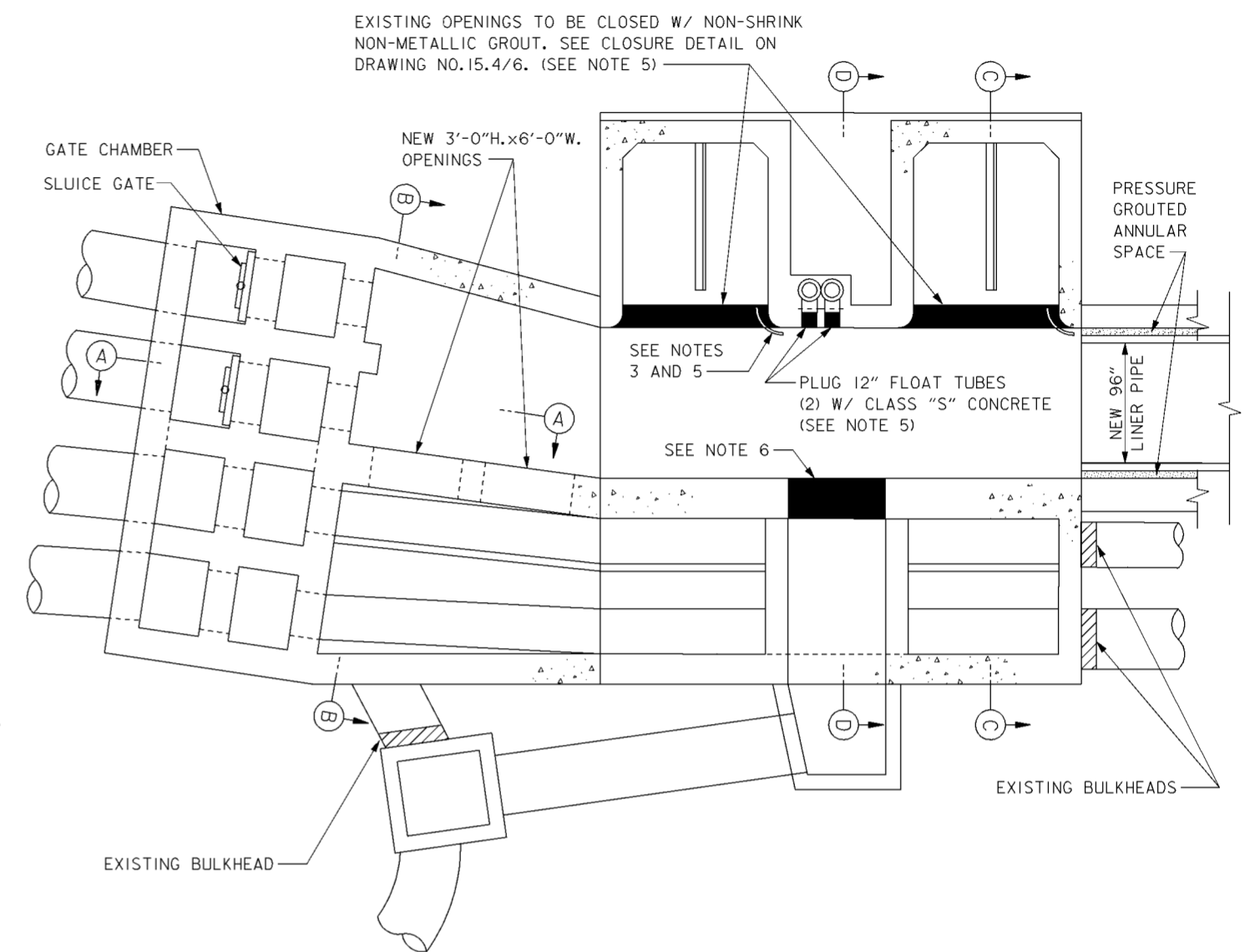
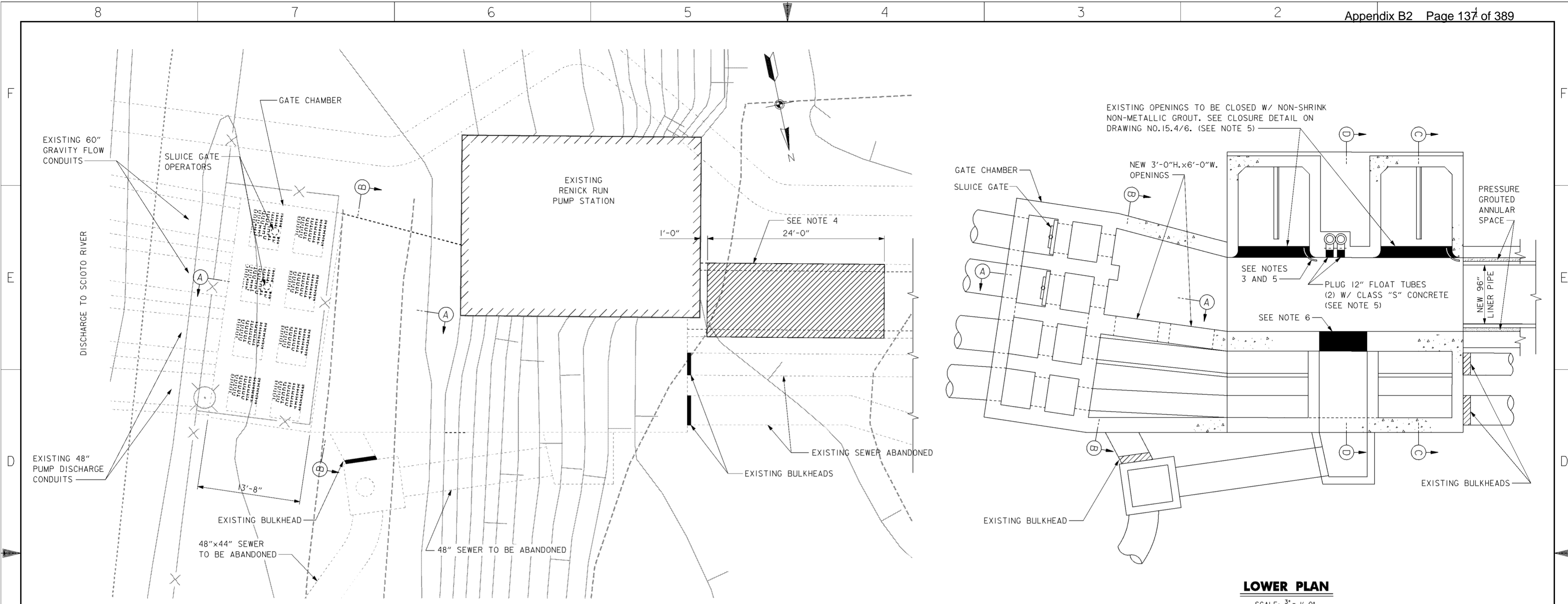
- NOTES**
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
  2. FOR RENICK RUN STORMWATER PUMP STATION SEE DRAWING NOS. 51.1/1 THRU 51.1/7.
  3. FOR TIE-IN DETAIL BETWEEN 42" RCP STORM SEWER AND NEW 96" LINER PIPE SEE DRAWING NO. 15.4/11.
  4. FOR TRANSITION COLLAR AND 108" RCP SEE DRAWING NO. 51.1/5.



**PROFILE**

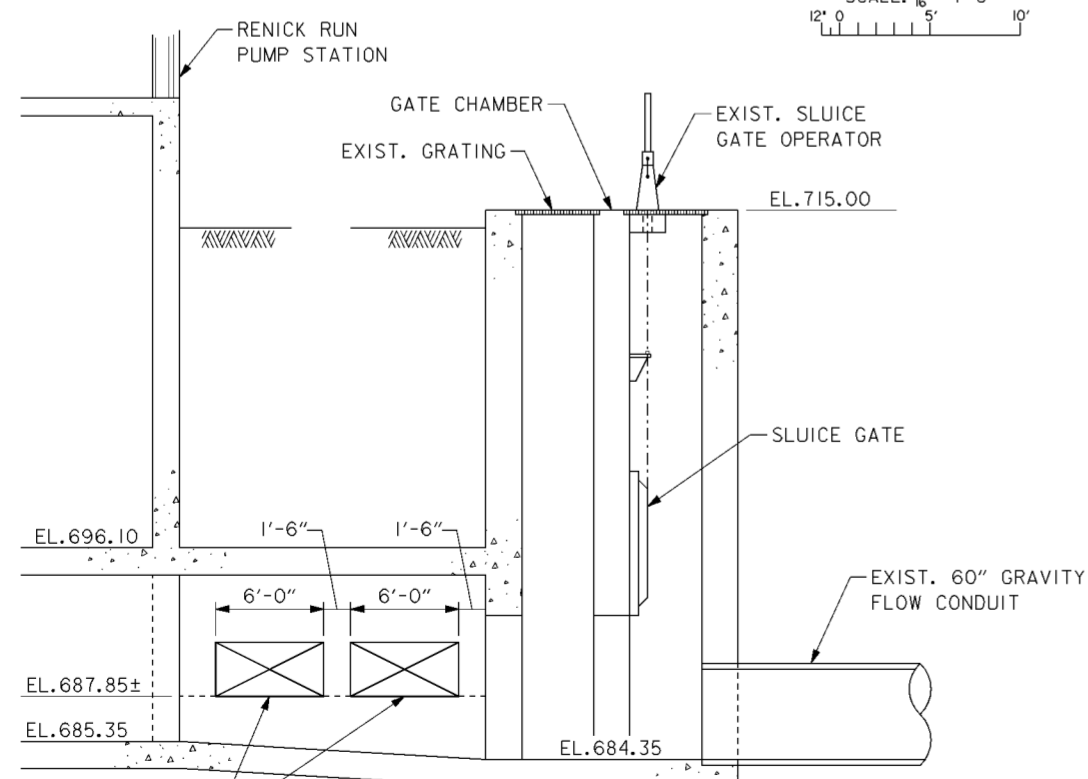
Revisions			
Symbol	Descriptions	Date	Approved
REV. BY CONTRACT MODIFICATION LETTER MC002 6/01 P.O.C.			
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	P. CONROY	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by:	T. MULLINS	<b>RENICK RUN</b> <b>PLAN AND PROFILE</b>	
Checked by:	R. ROMAN	Scale:	AS SHOWN
Reviewed by:		Date:	OCTOBER 2000
Approved by:		Drawing Code:	016-PWC-13
		Sheet reference number:	15.4/4
		FILENAME:	oad7pp04.dgn
		PIN TABLE:	
		Sheet	4 of 4



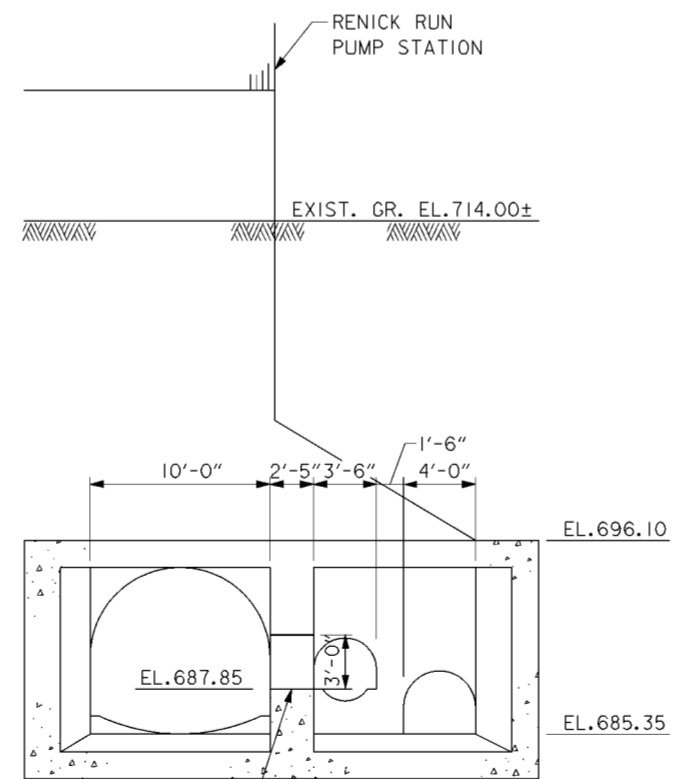


**LOWER PLAN**  
SCALE: 3/8" = 1'-0"  
12' 0" 5' 10'

**SITE PLAN**  
SCALE: 3/8" = 1'-0"  
12' 0" 5' 10'



**SECTION A-A**  
SCALE: 3/8" = 1'-0"  
12' 0" 5' 10'



**SECTION B-B**  
SCALE: 3/8" = 1'-0"  
12' 0" 5' 10'

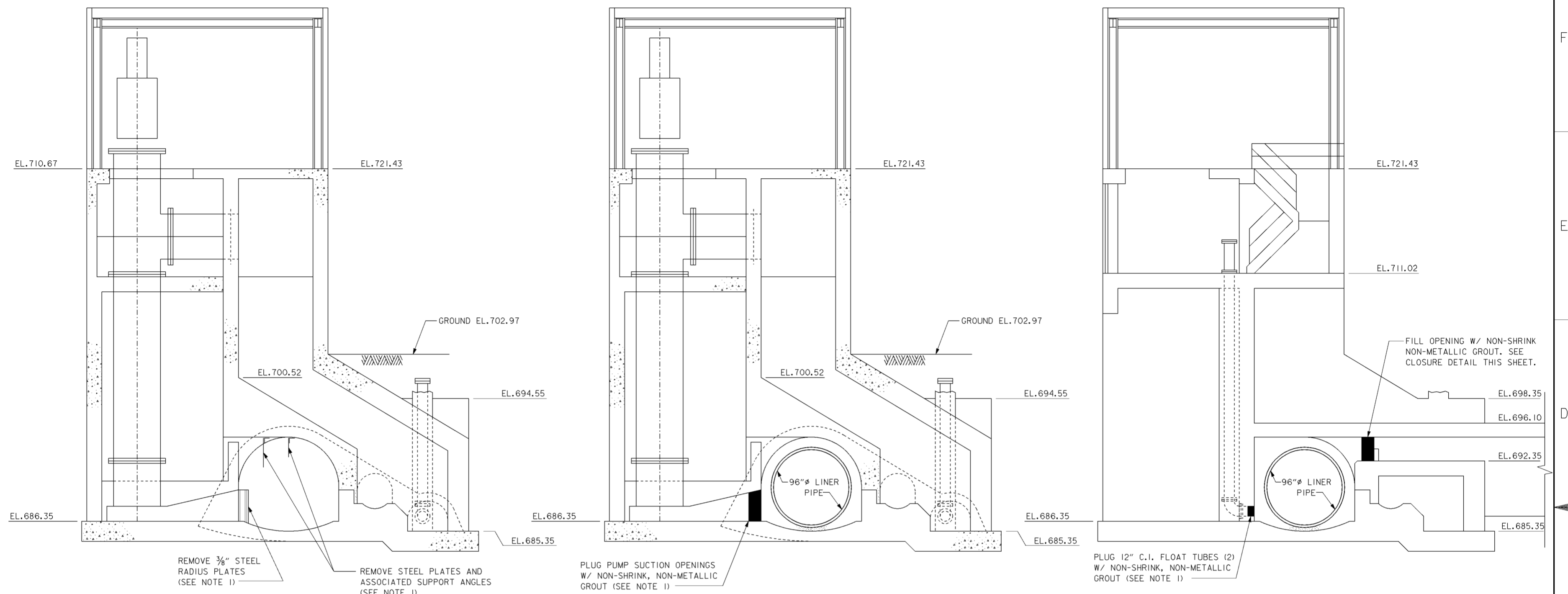
**NOTES**

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR SECTIONS "C" AND "D" SEE DRAWING NO. 15.4/6.
3. REMOVE 3/8" STEEL RADIUS PLATE. (TYP. OF 2).
4. CONTRACTOR TO REMOVE 24'-0" LONG SECTION OF UPPER PORTION OF 120"x111" RENICK RUN STORM SEWER (SEE SECTIONS ON DRAWING NO. 15.4/7.) TO ALLOW LOWERING OF 20'-0" SECTIONS OF 96" LINER PIPE INTO STORM SEWER.
5. THE REMOVAL OF THE 3/8" STEEL RADIUS PLATES AND THE CLOSING OF THE TWO PUMP SECTION OPENINGS SHALL BE ACCOMPLISHED ONLY AFTER THE NEW PUMP STATION AND 96" FORCE MAIN ARE READY FOR SERVICE.
6. EXISTING 1'-3"x6'-6" OPENING TO BE CLOSED W/ NON-SHRINK, NON-METALLIC GROUT. SEE CLOSURE DETAIL ON DRAWING NO. 15.4/6.

Revisions			
Symbol	Descriptions	Date	Approved

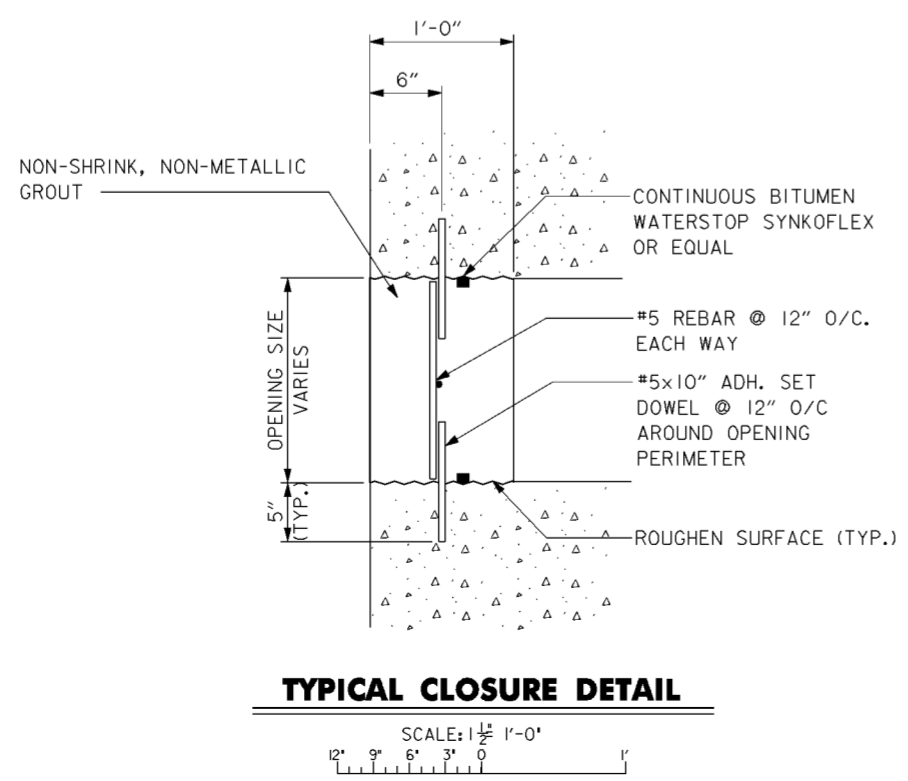
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>GATE CHAMBER/PUMP STATION MODIFICATIONS</b>	
Designed by: <b>R.ROMAN</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.4/5</b>
Drawn by: <b>T.MULLINS</b>		Date: <b>OCTOBER 2000</b>	FILENAME: 00d7p01.dgn
Checked by: <b>P.CONROY</b>	Reviewed by: (Signature)	Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 2



**SECTION C-C DEMOLITION**  
SCALE: 1/4" = 1'-0"  
12' 0" 5'

**SECTION C-C**  
SCALE: 1/4" = 1'-0"  
12' 0" 5'

**SECTION D-D**  
SCALE: 1/4" = 1'-0"  
12' 0" 5'



**TYPICAL CLOSURE DETAIL**  
SCALE: 1/2" = 1'-0"  
12' 9' 6' 3' 0' 1'

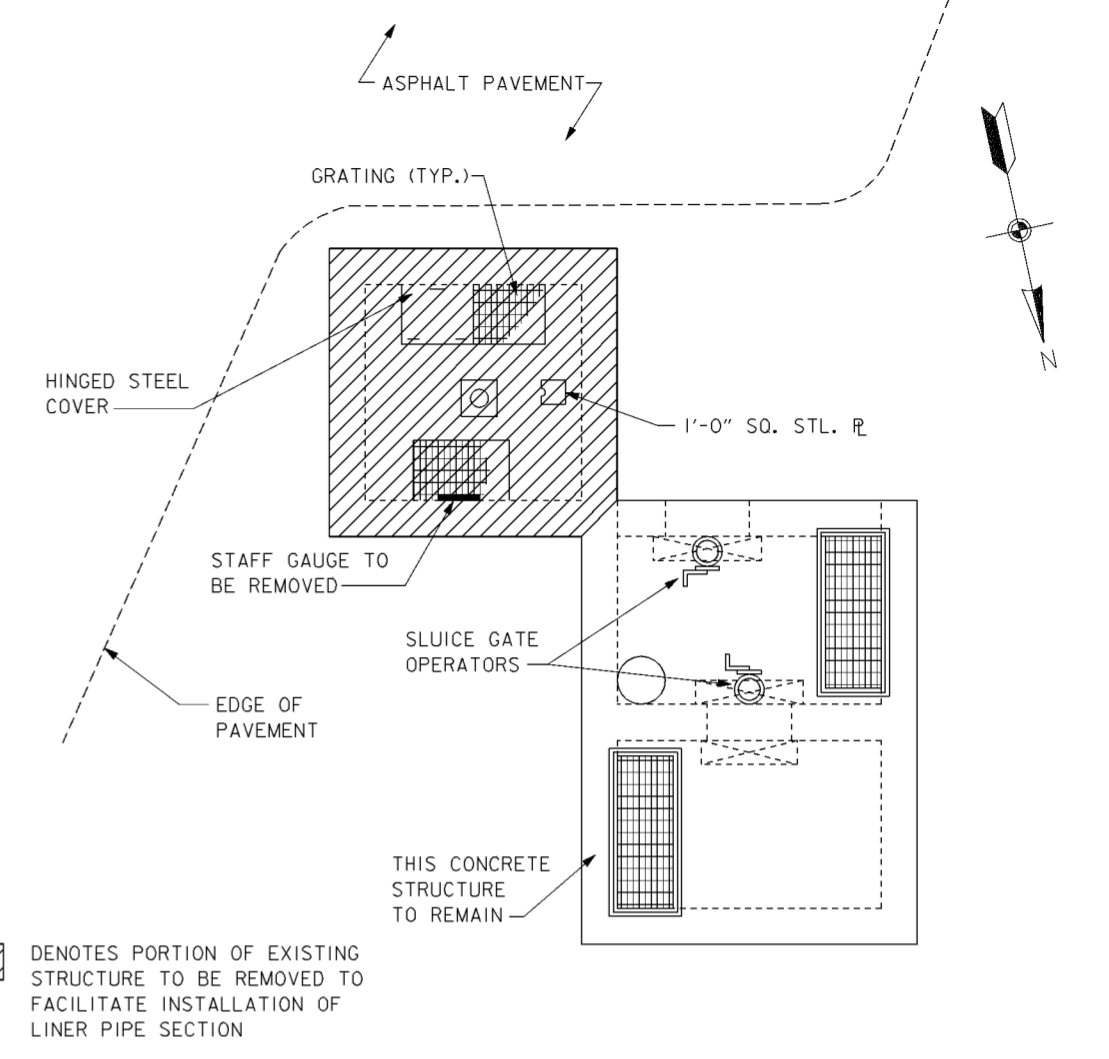
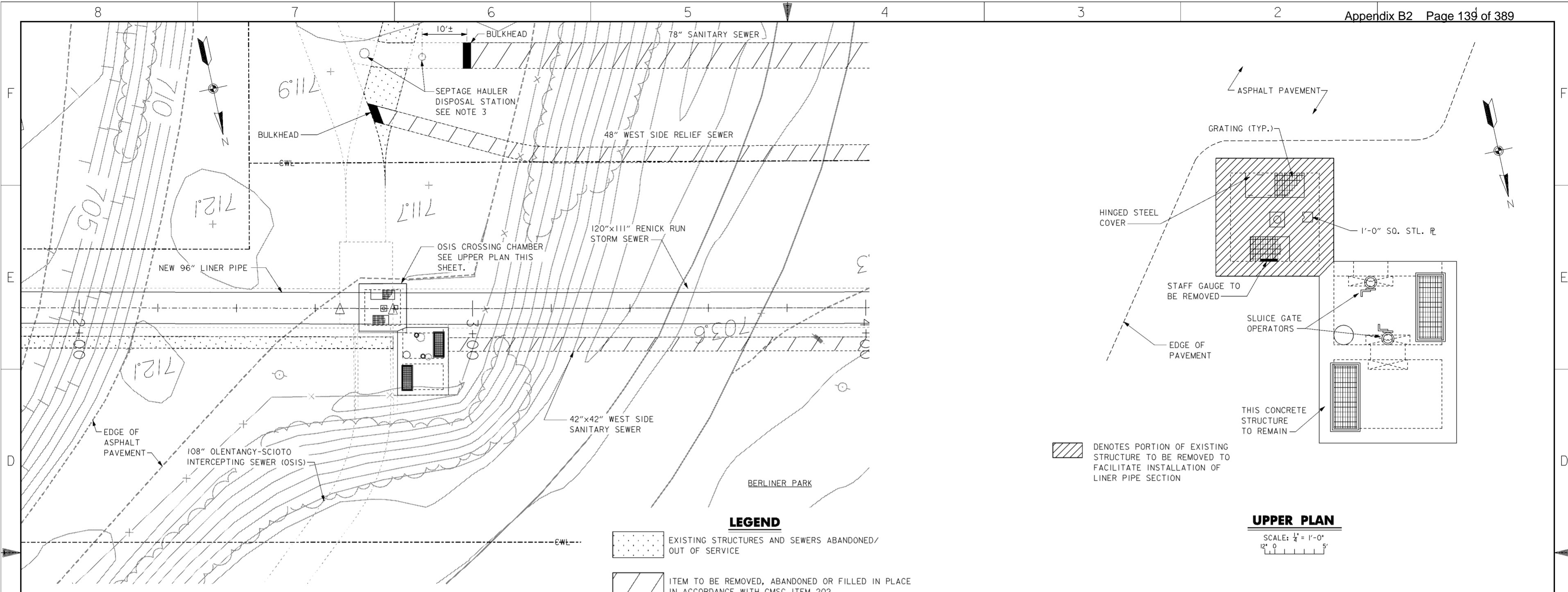
**NOTES**

1. THE REMOVAL OF THE 3/8" STEEL RADIUS PLATES, VERTICAL PLATES, AND CLOSURE OF OPENINGS NOTED SHALL BE ACCOMPLISHED ONLY AFTER THE NEW PUMP STATION AND 96" FORCE MAIN ARE READY FOR SERVICE.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>R.OMAN</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB
		Drawn by: <b>T.MULLINS</b>	
Checked by: <b>P.CONROY</b>	<b>GATE CHAMBER/PUMP</b> <b>STATION MODIFICATIONS</b>		FILENAME: 00d7c01.dgn
Reviewed by: <b>AS SHOWN</b>	Scale: <b>OCTOBER 2000</b>	Sheet reference number: <b>15.4/6</b>	PEN TABLE:
Approved by:	Drawing Code: <b>016-PWC-13</b>	Sheet <b>2</b> of <b>2</b>	Approved by:



**LEGEND**

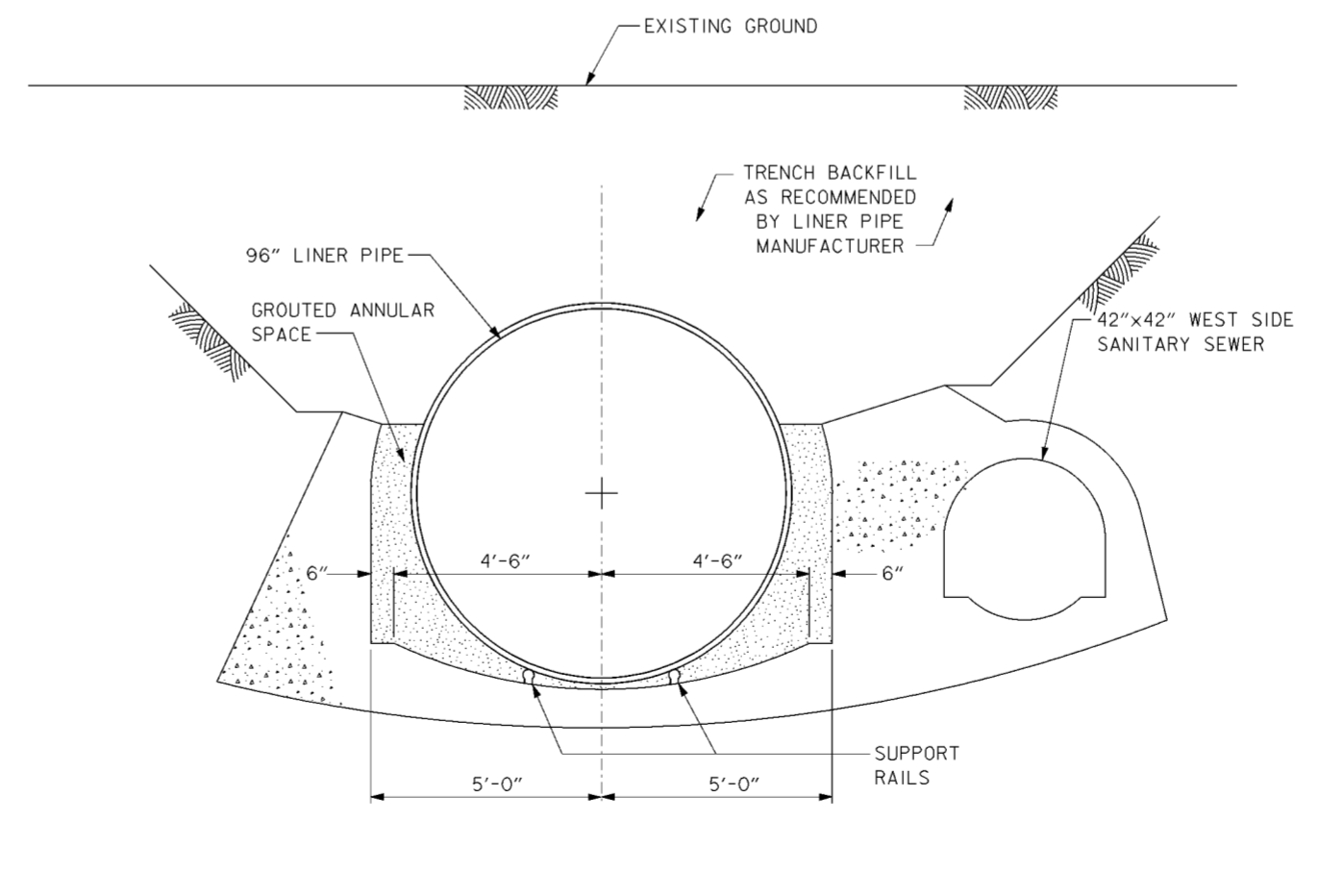
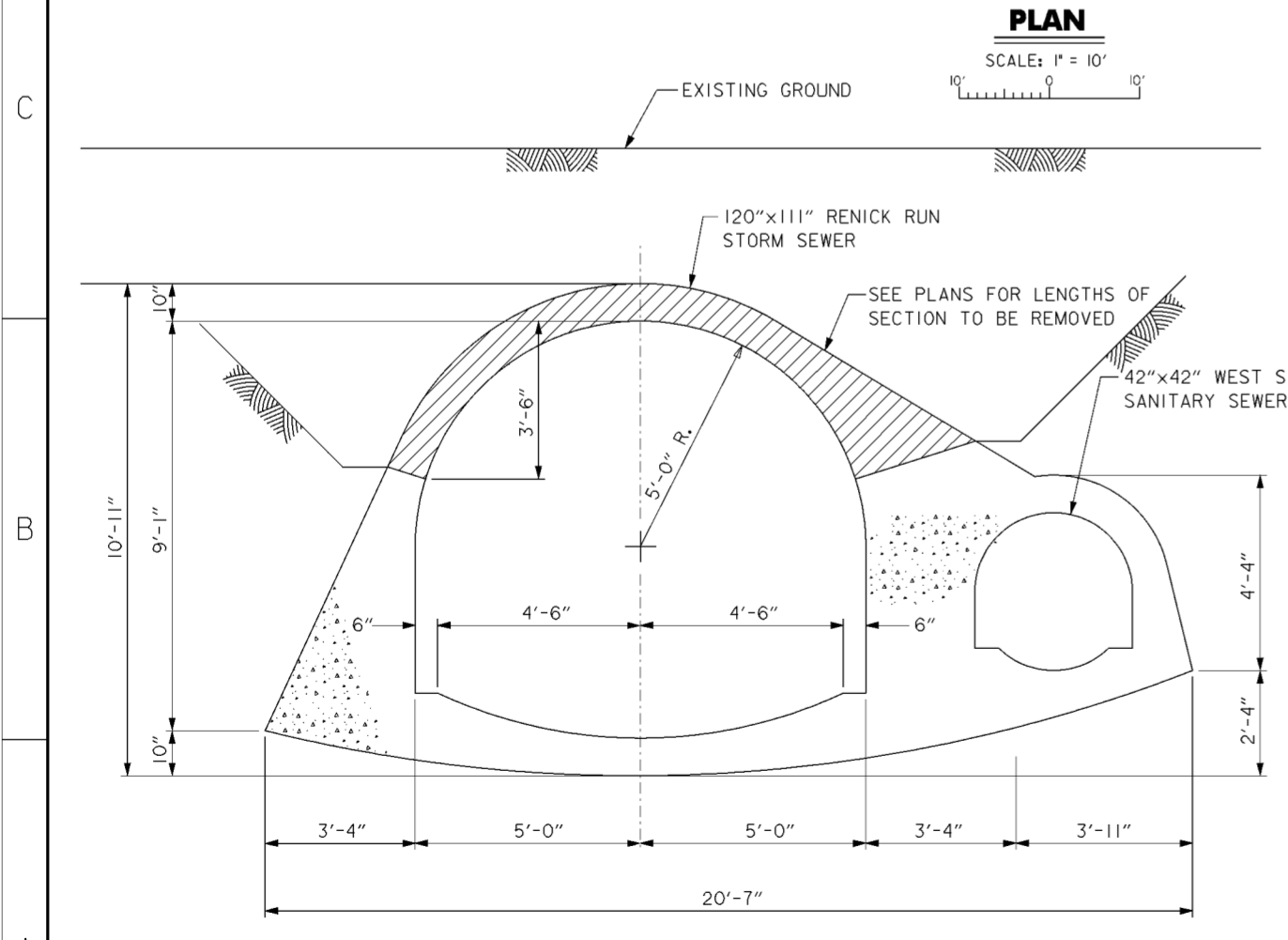
EXISTING STRUCTURES AND SEWERS ABANDONED/  
OUT OF SERVICE

ITEM TO BE REMOVED, ABANDONED OR FILLED IN PLACE  
IN ACCORDANCE WITH CMSC ITEM 202.

**UPPER PLAN**

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

- NOTES**
- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
  - FOR MODIFICATIONS TO THE OSIS CROSSING CHAMBER SEE DRAWING NO. 15.4/8 AND 15.4/9.
  - CONTRACTOR SHALL MAINTAIN ACCESS ROADWAY TO SEPTAGE DISPOSAL STATION AT ALL TIMES. BULKHEAD INSTALLATION SHALL BE COORDINATED WITH CONTRACTING OFFICER TO MINIMIZE DOWN TIME OF SEPTAGE HAULER DISPOSAL STATION. CONTRACTOR SHALL OBTAIN "OUTAGE REQUEST FORM" FROM THE CITY OF COLUMBUS AND OBTAIN APPROVAL PRIOR TO COMMENCEMENT OF WORK THAT WILL REQUIRE THE SEPTAGE DISPOSAL STATION TO BE TAKEN OUT OF SERVICE.



**TYPICAL PARTIAL DEMOLITION-SECTION**

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

**TYPICAL INSTALLATION AT DEMOLITION SECTION**

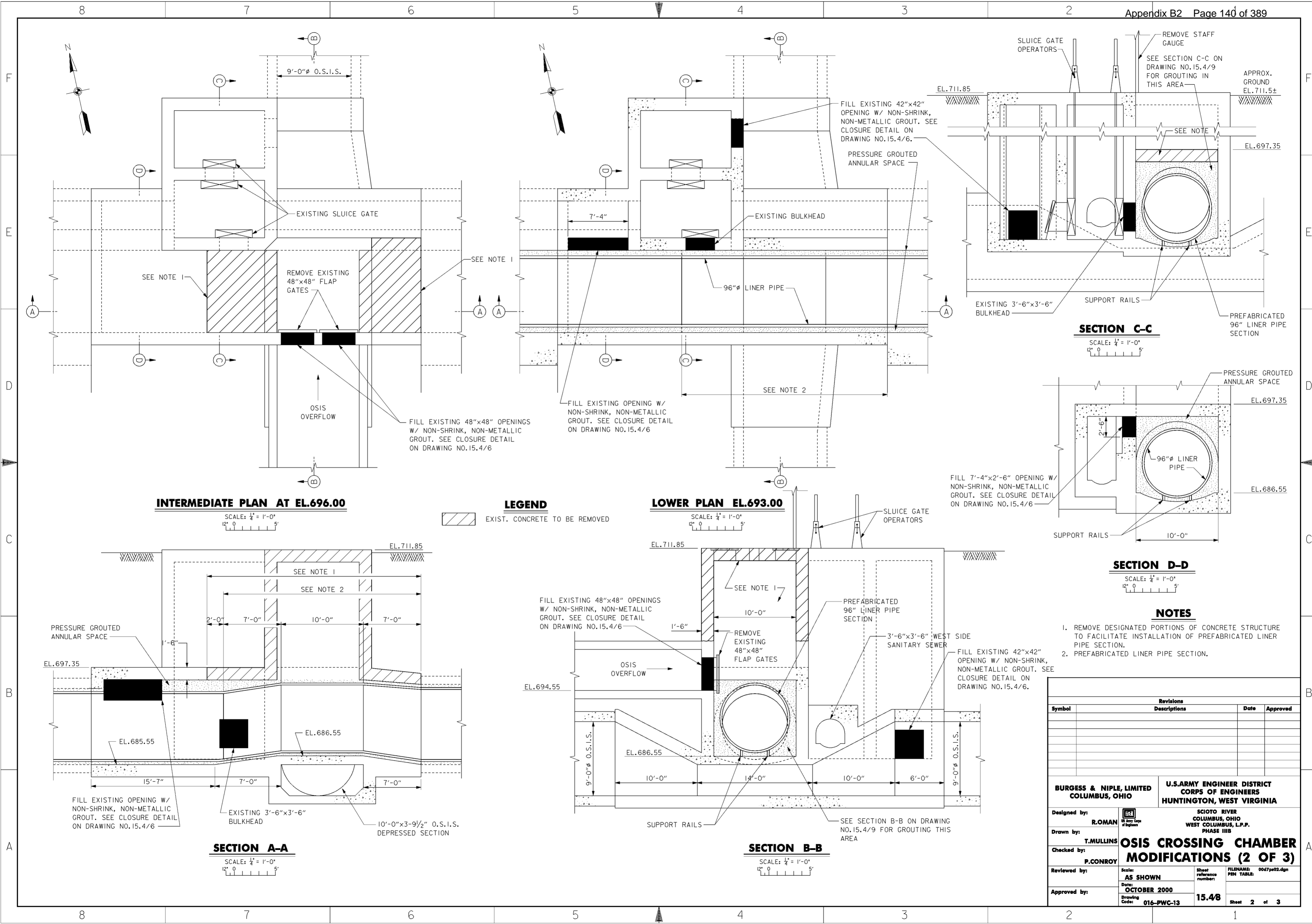
SCALE: 1/2" = 1'-0"

DENOTES PORTION OF EXISTING  
STRUCTURE TO BE REMOVED TO  
FACILITATE INSTALLATION OF  
LINER PIPE SECTION

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>R.OMAN</b>		<b>OSIS CROSSING CHAMBER</b> <b>MODIFICATIONS (1 OF 3)</b>	
Drawn by: <b>T.MULLINS</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.47</b>
Checked by: <b>P.CONROY</b>		Date: <b>OCTOBER 2000</b>	FILENAME: PIN TABLE: 00d7p04.dgn
Reviewed by: (blank)		Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 3
Approved by: (blank)		(blank)	(blank)



**LEGEND**

EXIST. CONCRETE TO BE REMOVED

**SECTION C-C**

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

**SECTION D-D**

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

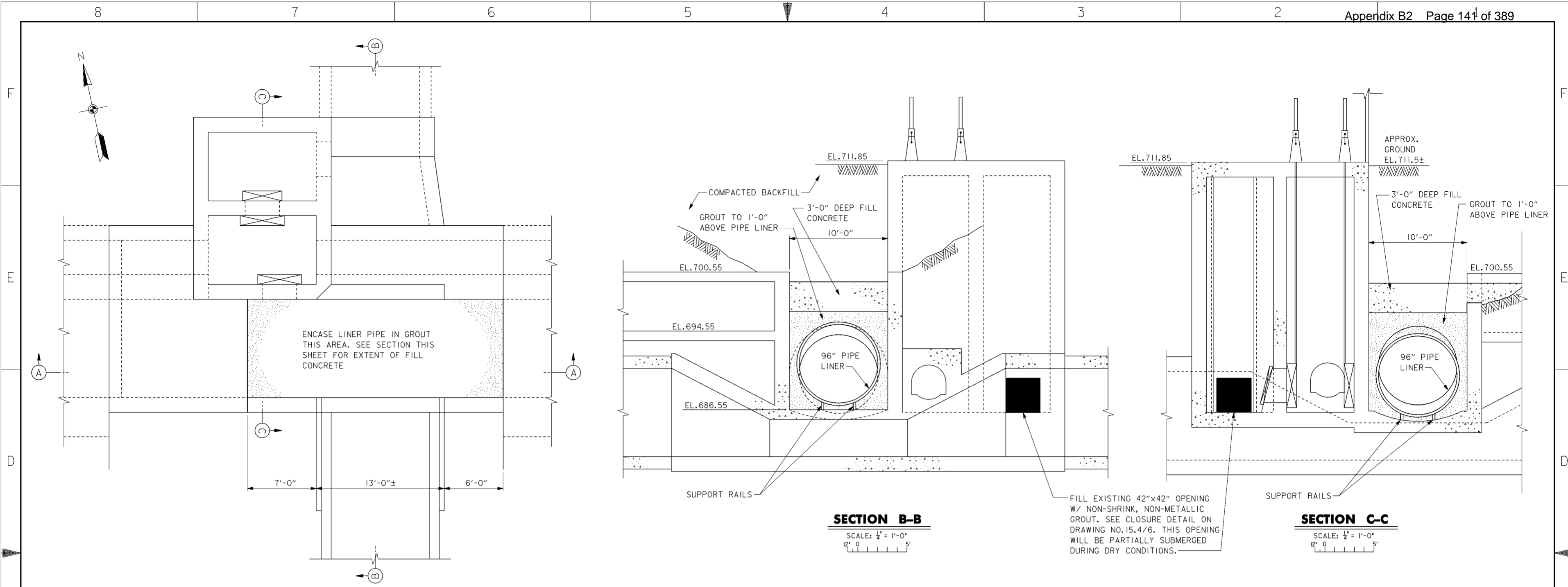
**NOTES**

1. REMOVE DESIGNATED PORTIONS OF CONCRETE STRUCTURE TO FACILITATE INSTALLATION OF PREFABRICATED LINER PIPE SECTION.
2. PREFABRICATED LINER PIPE SECTION.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>R.ROMAN</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
		Drawn by: <b>T.MULLINS</b>	
Checked by: <b>P.CONROY</b>	<b>OSIS CROSSING CHAMBER MODIFICATIONS (2 OF 3)</b>	Scale: <b>AS SHOWN</b>	FILENAME: 00d7p02.dgn
Reviewed by: Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>15.48</b>	Sheet <b>2</b> of <b>3</b>



**PLAN AT EL.696.00**

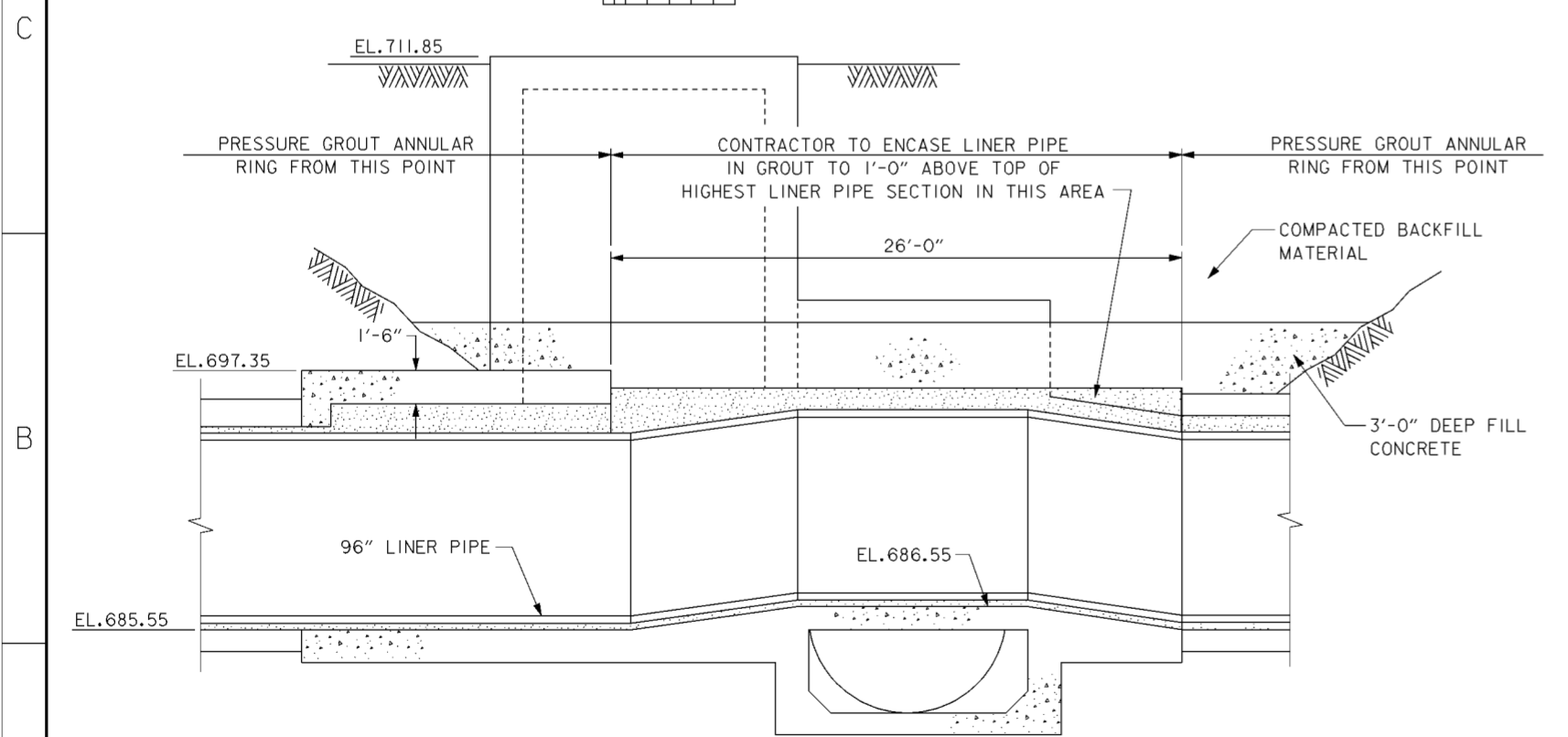
SCALE: 1/4" = 1'-0"  
12" 0 5'

**SECTION B-B**

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

**SECTION C-C**

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



NOTE: NEW LINER PIPE NOT SHOWN FOR CLARITY

**SECTION A-A**

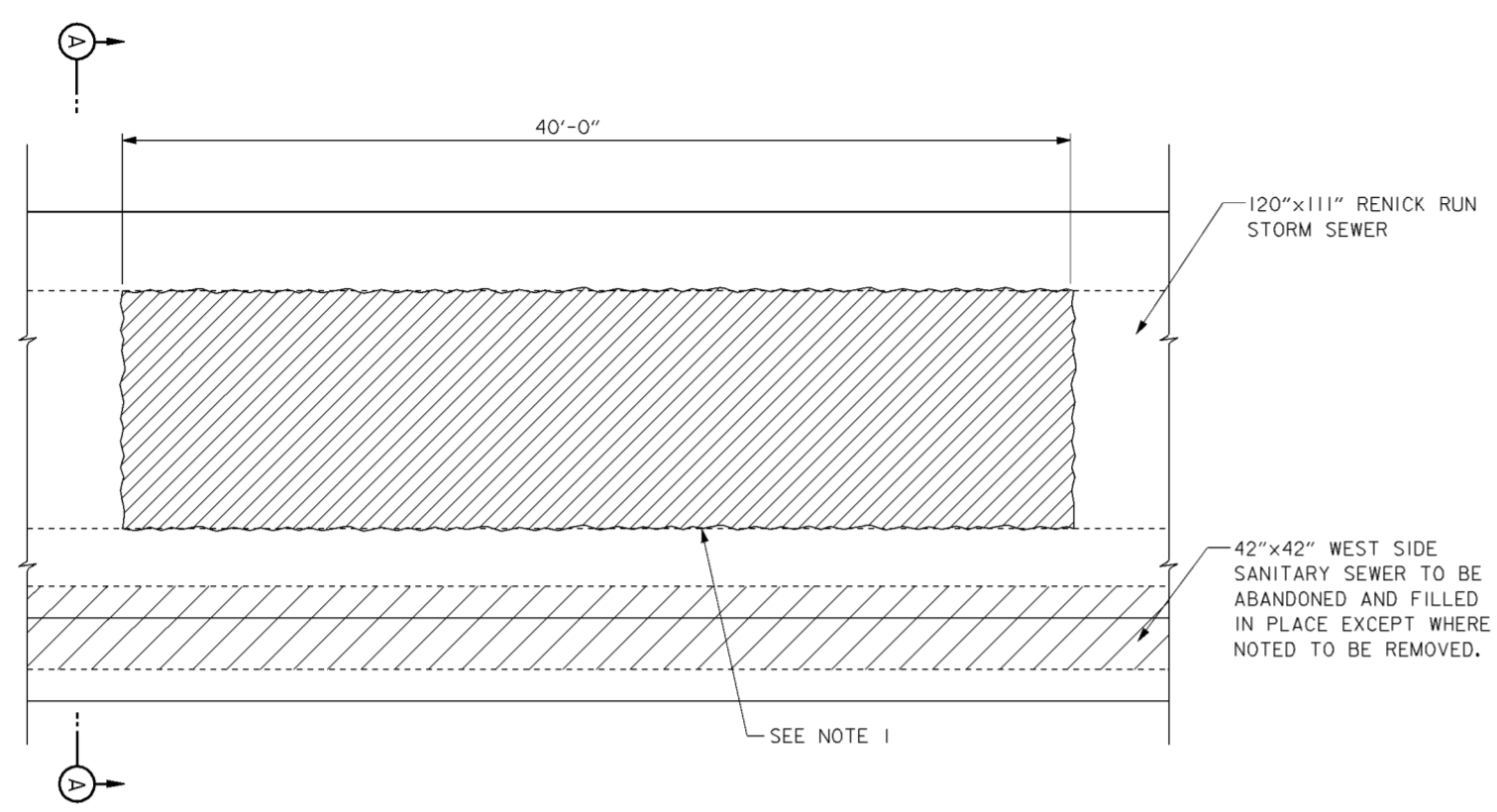
SCALE: 1/4" = 1'-0"  
12" 0 5'

- NOTES**
- REMOVE DESIGNATED PORTIONS OF CONCRETE STRUCTURE TO FACILITATE INSTALLATION OF PREFABRICATED LINER PIPE SECTION.
  - PIPE SECTION, PREFABRICATED LINER PIPE SECTION.

Revisions			
Symbol	Descriptions	Date	Approved

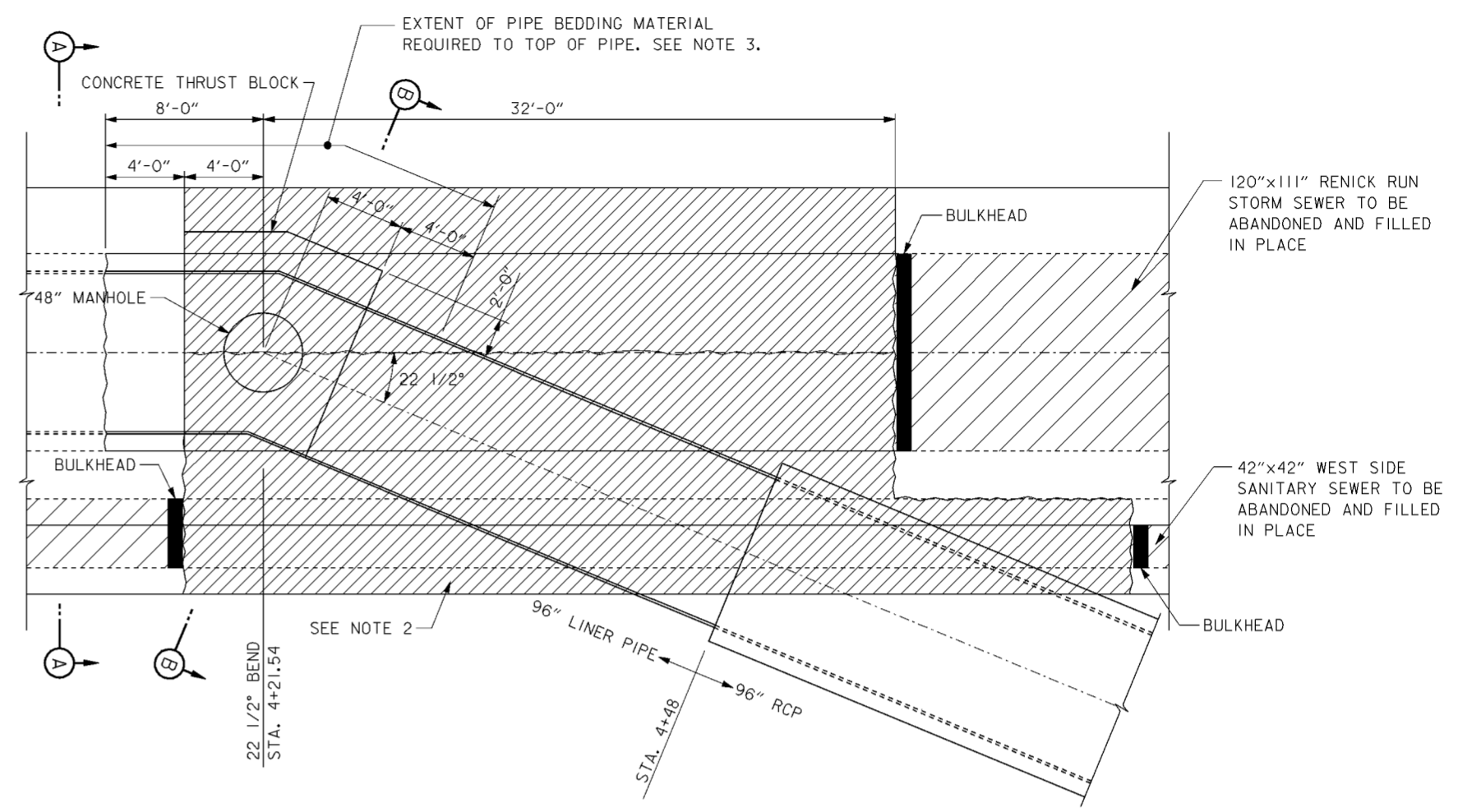
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>R.ROMAN</b>		<b>OSIS CROSSING CHAMBER MODIFICATIONS (3 OF 3)</b>	
Drawn by: <b>A.PUMMELL</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.49</b>
Checked by: <b>P.CONROY</b>		Date: <b>OCTOBER 2000</b>	FILENAME: PEN TABLE: 00d7p05.dgn
Reviewed by:		Drawing Code: <b>016-PWC-13</b>	Sheet 3 of 3
Approved by:		Approved:	Approved:



**TYPICAL PUSH/PULL STATION UPPER PLAN**

SCALE: 1/4" = 1'-0"  
12" 0 1' 2' 3' 4' 5'



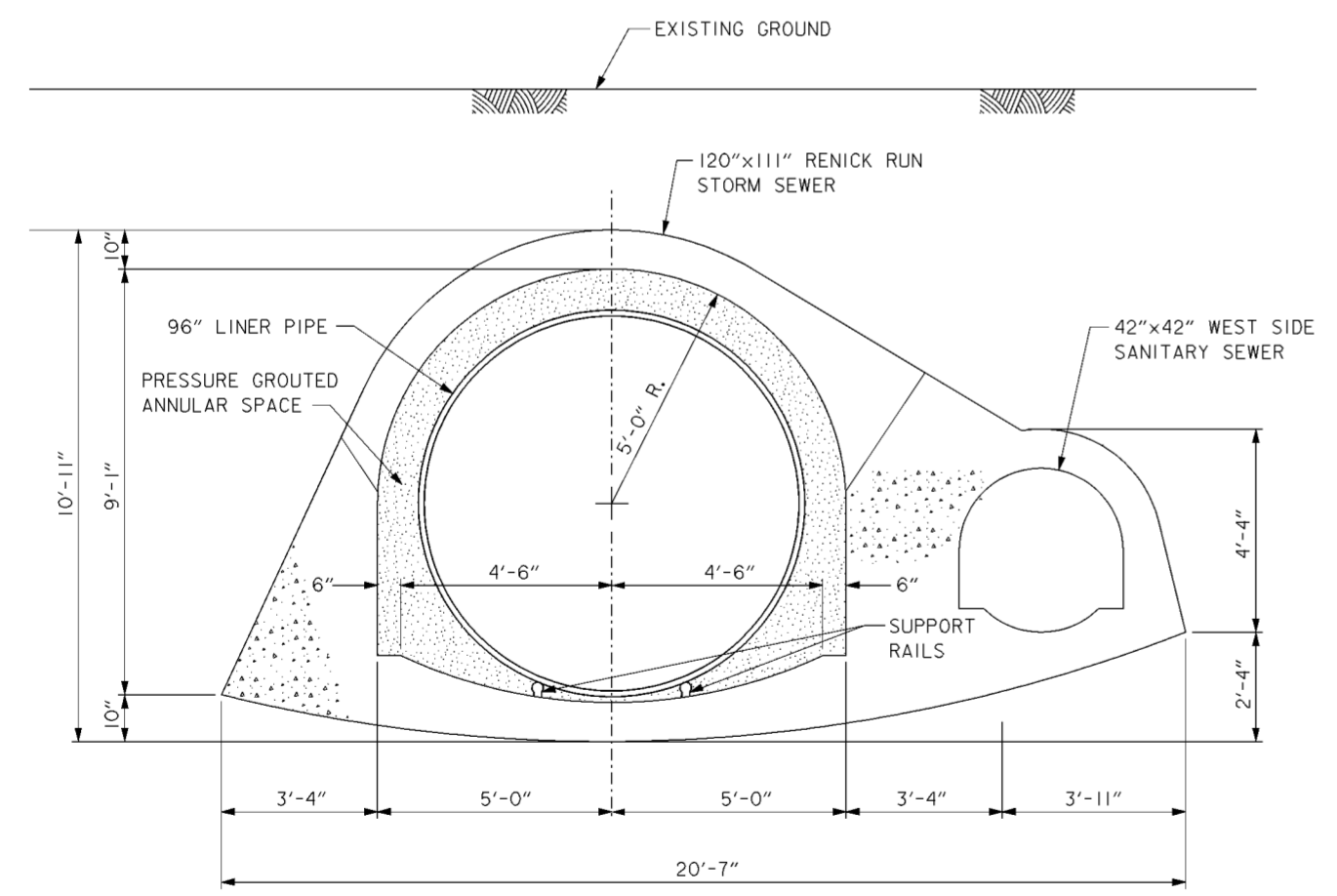
**PUSH/PULL STATION PLAN AT STATION 4+21.54**

SCALE: 1/4" = 1'-0"  
12" 0 1' 2' 3' 4' 5'

NOTE: PUSH/PULL STATION AT STATION 12+97.68 IS SIMILAR BUT OPPOSITE HAND

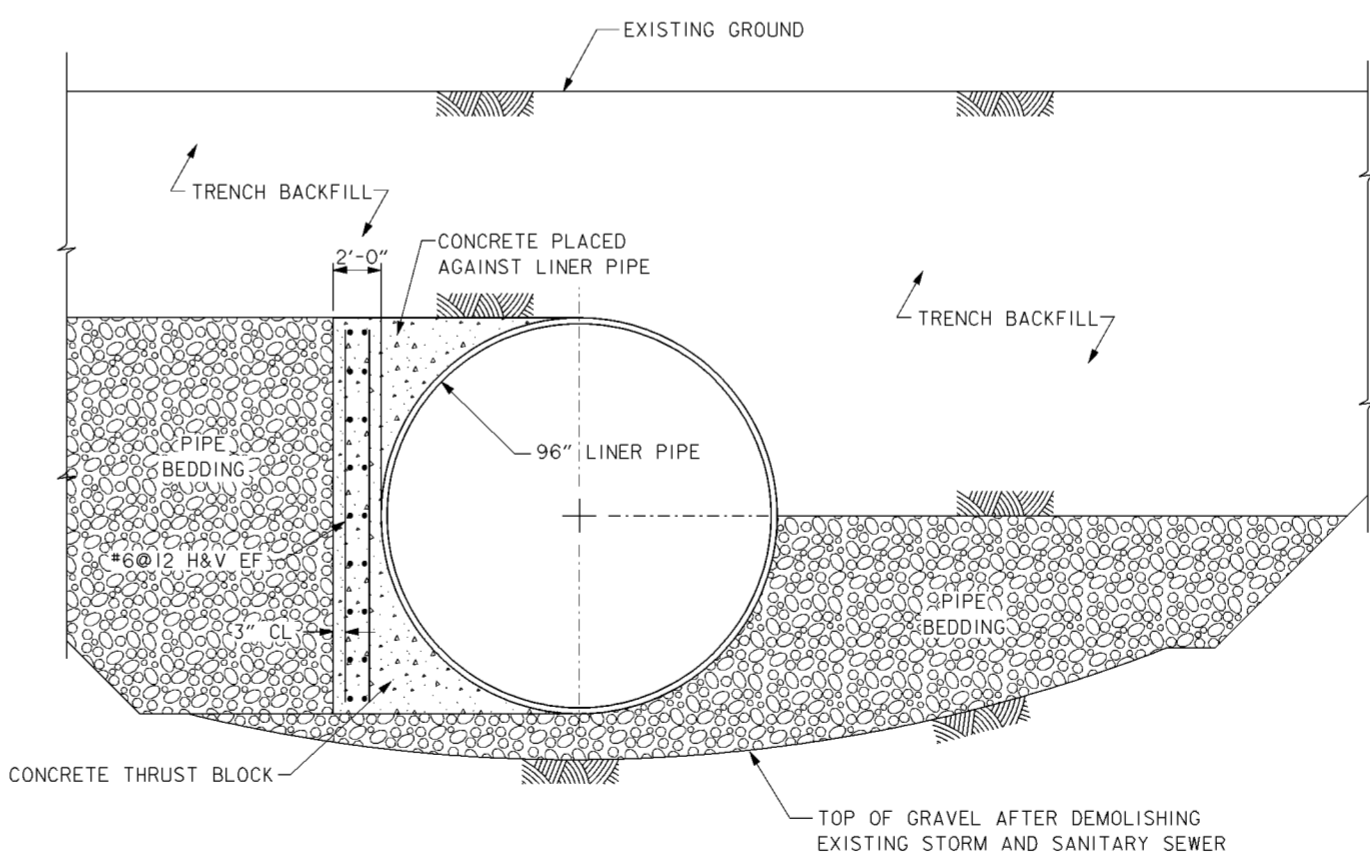
**NOTES**

- CONTRACTOR SHALL REMOVE 40'-0" OF TOP PORTION OF RENICK RUN STORM SEWER AT EACH PUSH/PULL STATION TO ACCOMMODATE 20'-0" SECTIONS OF LINER PIPE AND PUSH/PULL MECHANISM. SEE TYPICAL PARTIAL DEMOLITION SECTION ON DRAWING NO.15.4/7.
- REMOVE CROSS-HATCHED SECTION OF STORM AND SANITARY SEWERS TO ACCOMMODATE INSTALLATION OF NEW 96" STORM SEWER.
- TYPICALLY FILL EXCAVATION TO THE PIPE CENTERLINE WITH PIPE BEDDING MATERIAL; ON THE SOUTH SIDE OF THE PIPE BEHIND THE CONCRETE THRUST BLOCK, BACKFILL THE EXCAVATION WITH PIPE BEDDING MATERIAL TO THE ELEVATION OF THE TOP OF THE PIPE. PIPE BEDDING MATERIAL SHALL BE PLACED FROM BOTTOM OF THE EXCAVATION TO THE TOP OF THE PIPE FOR A DISTANCE OF 4'-0" UP AND DOWN STATION FROM THE ENDS OF THE THRUST BLOCK.



**SECTION A-A**

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



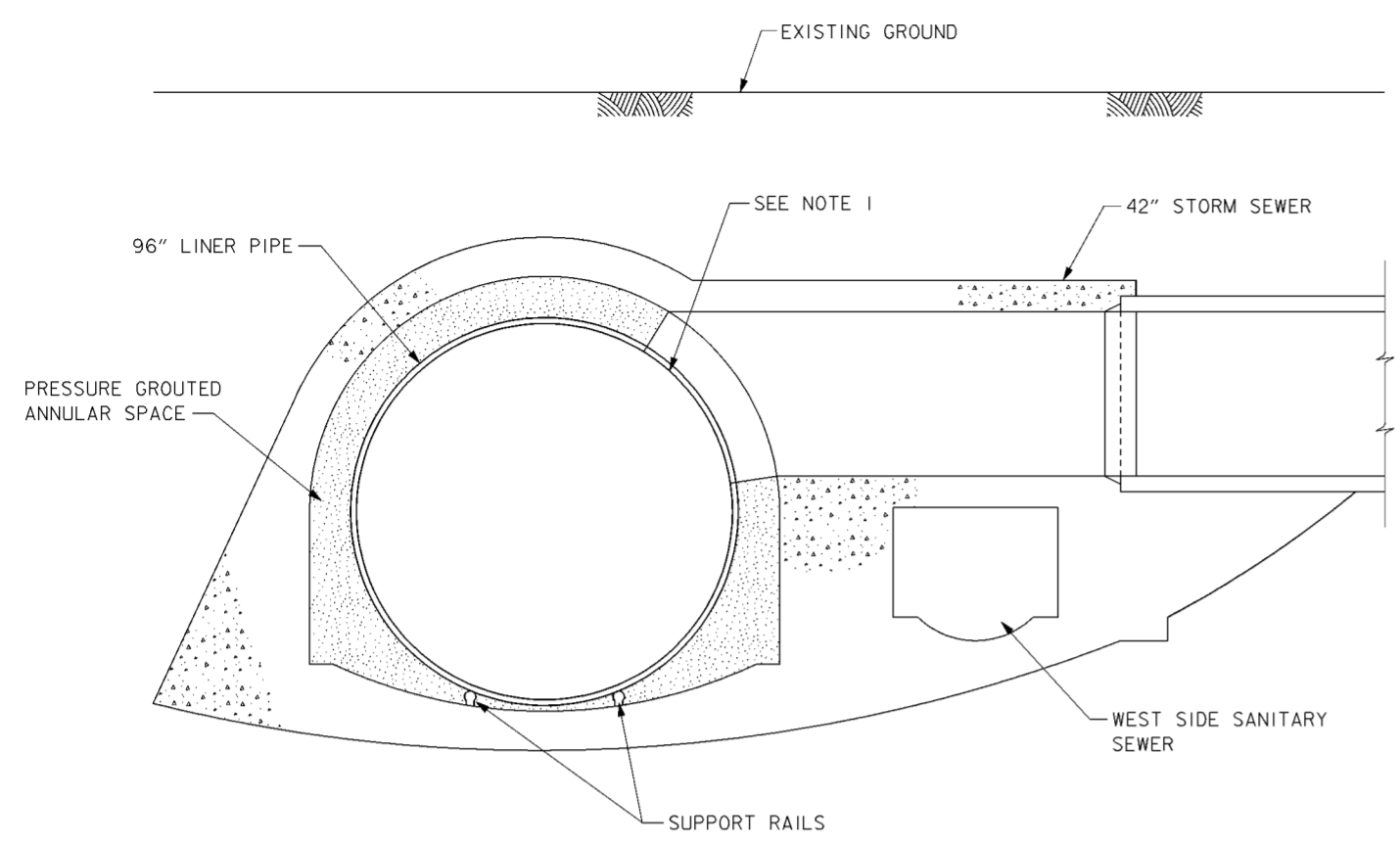
**SECTION B-B**

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

Revisions			
Symbol	Descriptions	Date	Approved

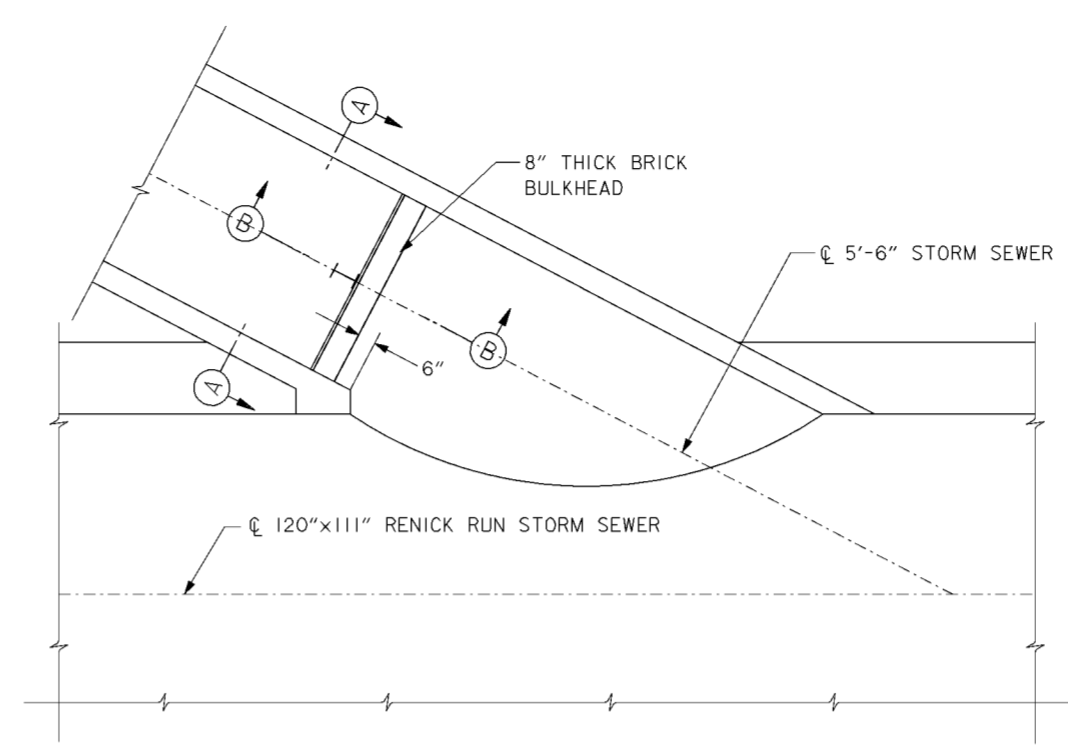
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	R.ROMAN Drawn by: T.MULLINS Checked by: P.CONROY Reviewed by:	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Approved by:	Scale: AS SHOWN Date: OCTOBER 2000 Drawing Code: 016-PWC-13	Sheet reference number: 15.410 FILENAME: 00d7p03.dgn PIN TABLE: Sheet 1 of 1



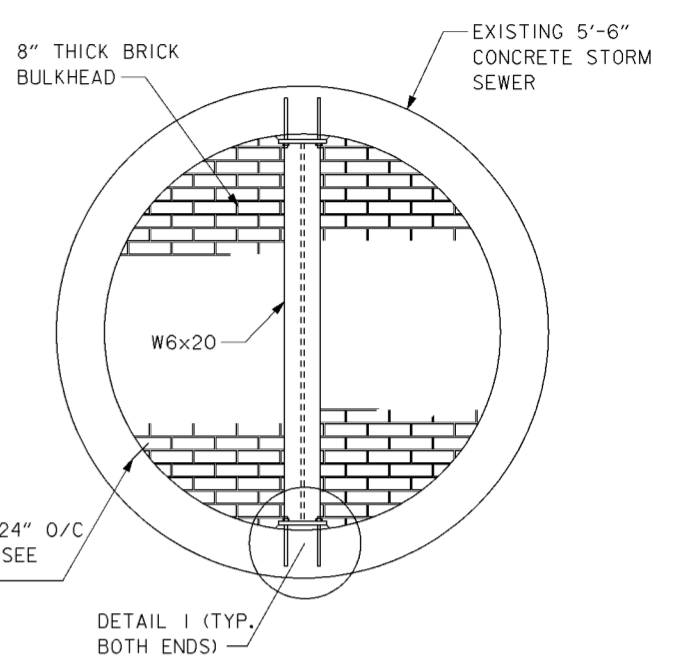
**42" STORM SEWER CONNECTION AT STA.15+15**

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



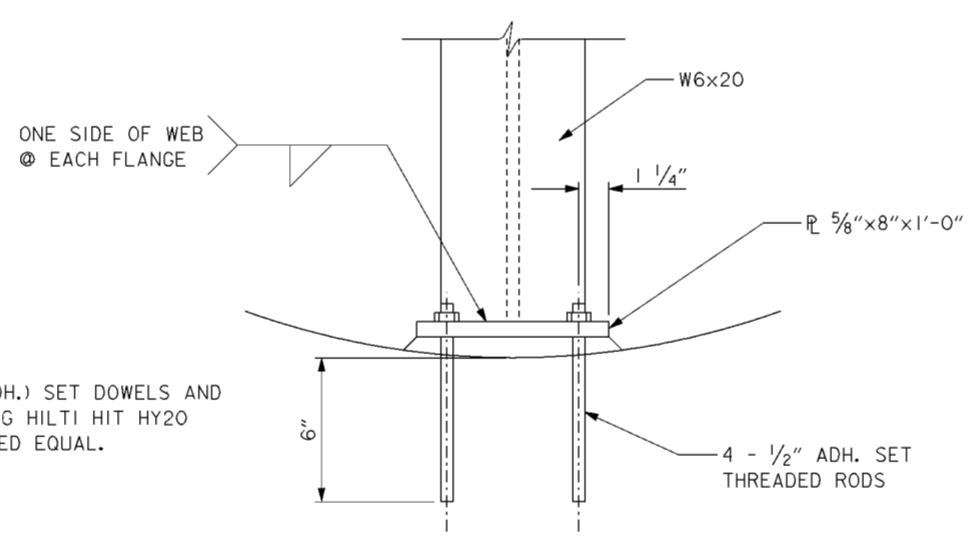
**BULKHEAD PLAN AT STA. 1+48**

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



**SECTION A-A**

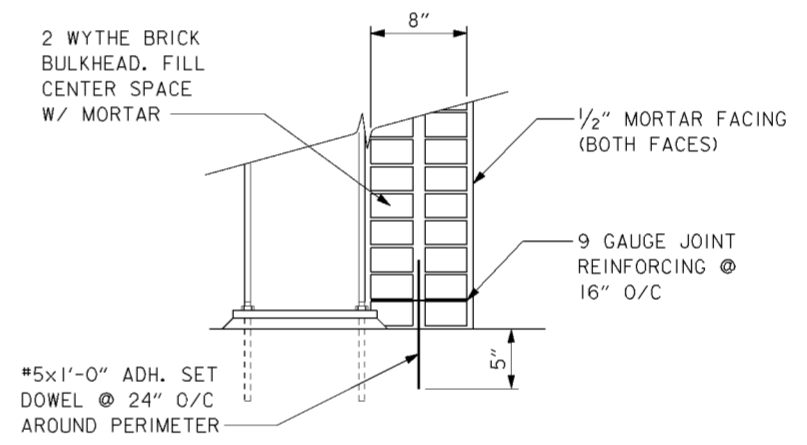
SCALE: 3/4" = 1'-0"  
 12" 0 1 2'



**DETAIL 1**

SCALE: 3" = 1'-0"  
 0 3 6 12"

NOTE: ADHESIVE (ADH.) SET DOWELS AND THREADED ROD USING HILTI HIT HY20 SYSTEM OR APPROVED EQUAL.



**SECTION B-B**

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

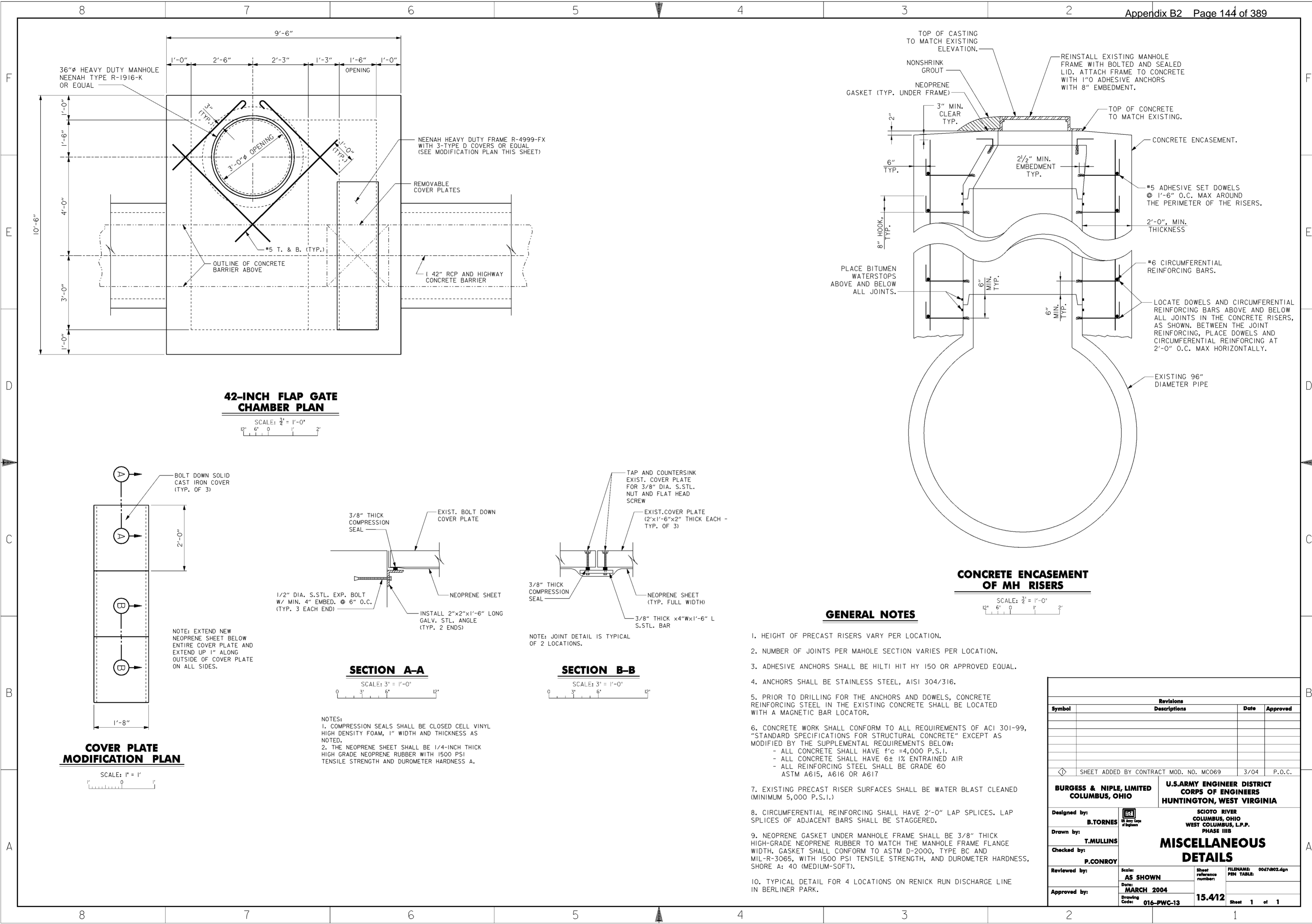
**NOTES**

- CONTRACTOR TO SAW CUT 42" DIA. HOLE IN NEW 96" LINER PIPE AT STATION 15+50 TO ALLOW UNOBSTRUCTED ENTRY OF STORM WATER FROM THE EXISTING 42" STORM SEWER.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	R.ROMAN Drawn by: T.MULLINS Checked by: P.CONROY	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>MISCELLANEOUS</b> <b>DETAILS</b>	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA



**42-INCH FLAP GATE CHAMBER PLAN**

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

**CONCRETE ENCASUREMENT OF MH RISERS**

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

**COVER PLATE MODIFICATION PLAN**

SCALE: 1" = 1'  
 1' 0"

**SECTION A-A**

SCALE: 3" = 1'-0"  
 0 3' 6' 12'

**SECTION B-B**

SCALE: 3" = 1'-0"  
 0 3' 6' 12'

**GENERAL NOTES**

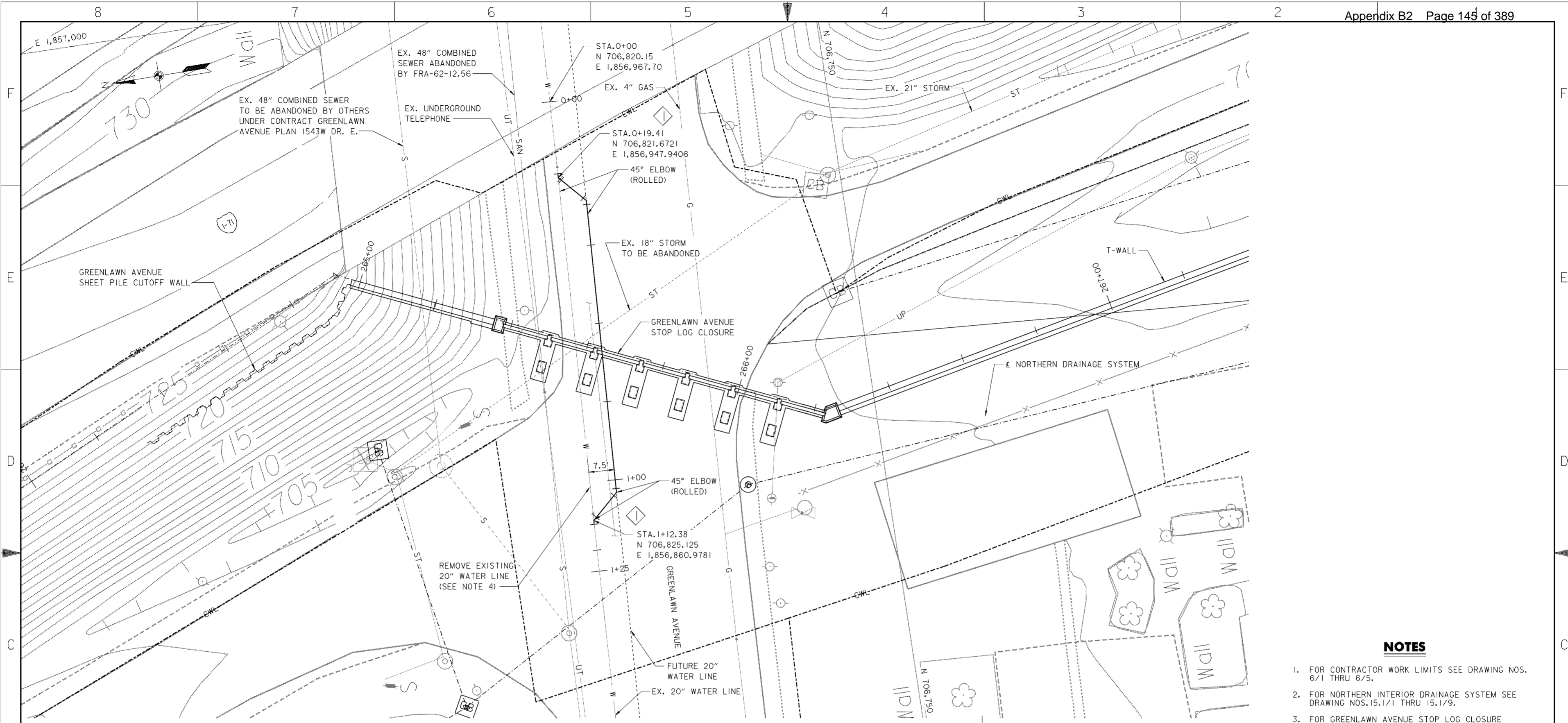
- HEIGHT OF PRECAST RISERS VARY PER LOCATION.
- NUMBER OF JOINTS PER MAHOLE SECTION VARIES PER LOCATION.
- ADHESIVE ANCHORS SHALL BE HILTI HIT HY 150 OR APPROVED EQUAL.
- ANCHORS SHALL BE STAINLESS STEEL, AISI 304/316.
- PRIOR TO DRILLING FOR THE ANCHORS AND DOWELS, CONCRETE REINFORCING STEEL IN THE EXISTING CONCRETE SHALL BE LOCATED WITH A MAGNETIC BAR LOCATOR.
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-99, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW:
  - ALL CONCRETE SHALL HAVE  $f'c = 4,000$  P.S.I.
  - ALL CONCRETE SHALL HAVE  $6 \pm 1\%$  ENTRAINED AIR
  - ALL REINFORCING STEEL SHALL BE GRADE 60 ASTM A615, A616 OR A617
- EXISTING PRECAST RISER SURFACES SHALL BE WATER BLAST CLEANED (MINIMUM 5,000 P.S.I.)
- CIRCUMFERENTIAL REINFORCING SHALL HAVE 2'-0" LAP SPLICES. LAP SPLICES OF ADJACENT BARS SHALL BE STAGGERED.
- NEOPRENE GASKET UNDER MANHOLE FRAME SHALL BE 3/8" THICK HIGH-GRADE NEOPRENE RUBBER TO MATCH THE MANHOLE FRAME FLANGE WIDTH. GASKET SHALL CONFORM TO ASTM D-2000, TYPE BC AND MIL-R-3065, WITH 1500 PSI TENSILE STRENGTH, AND DUROMETER HARDNESS, SHORE A: 40 (MEDIUM-SOFT).
- TYPICAL DETAIL FOR 4 LOCATIONS ON RENICK RUN DISCHARGE LINE IN BERLINER PARK.

Revisions			
Symbol	Descriptions	Date	Approved

SHEET ADDED BY CONTRACT MOD. NO. MC069    3/04    P.O.C.

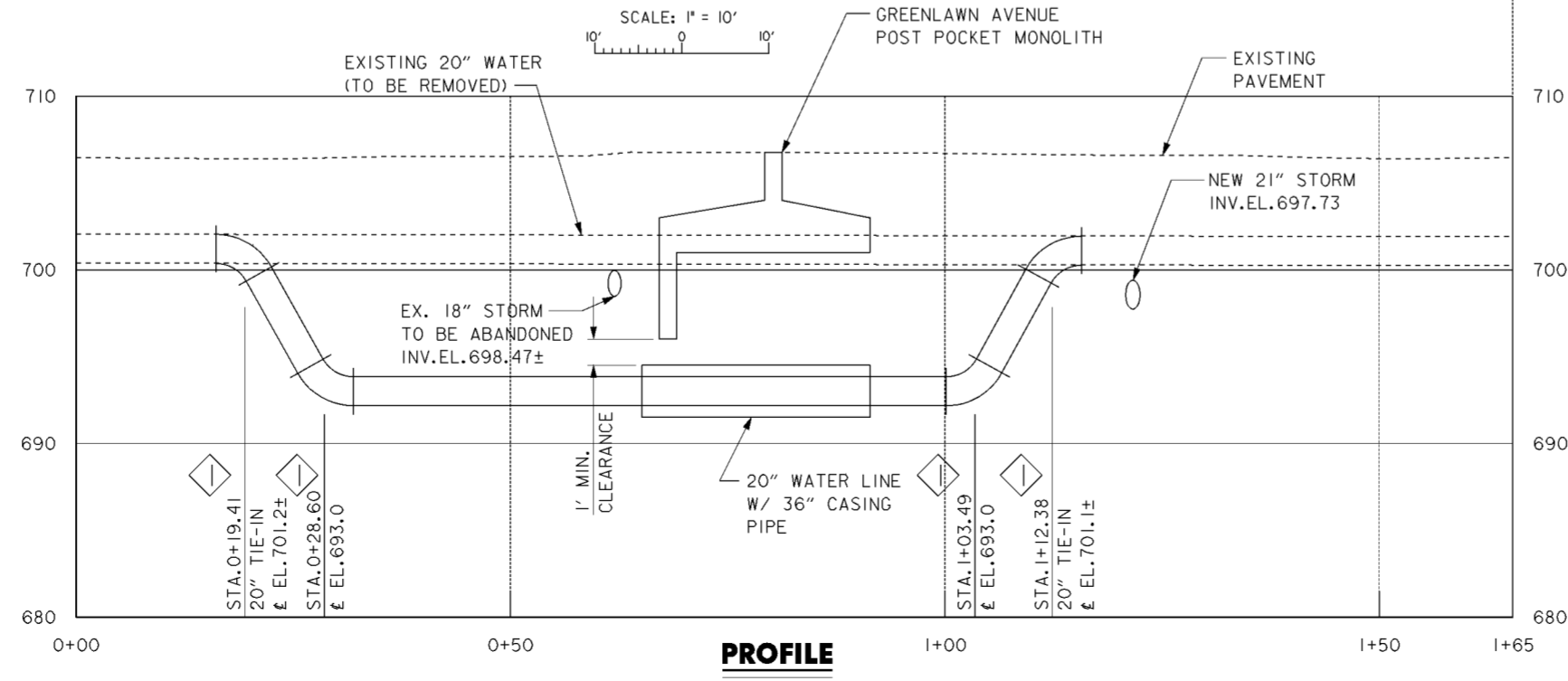
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III	
		<b>MISCELLANEOUS                  DETAILS</b>	
Designed by: <b>B.TORNES</b>		Checked by: <b>P.CONROY</b>	Scale: <b>AS SHOWN</b>
Drawn by: <b>T.MULLINS</b>		Date: <b>MARCH 2004</b>	Sheet reference number: <b>15.412</b>
Reviewed by: _____		Drawing Code: <b>016-PWC-13</b>	FILENAME: PIN TABLE: 00d7d02.dgn
Approved by: _____		Sheet <b>1</b> of <b>1</b>	_____





**PLAN**

SCALE: 1" = 10'



**PROFILE**

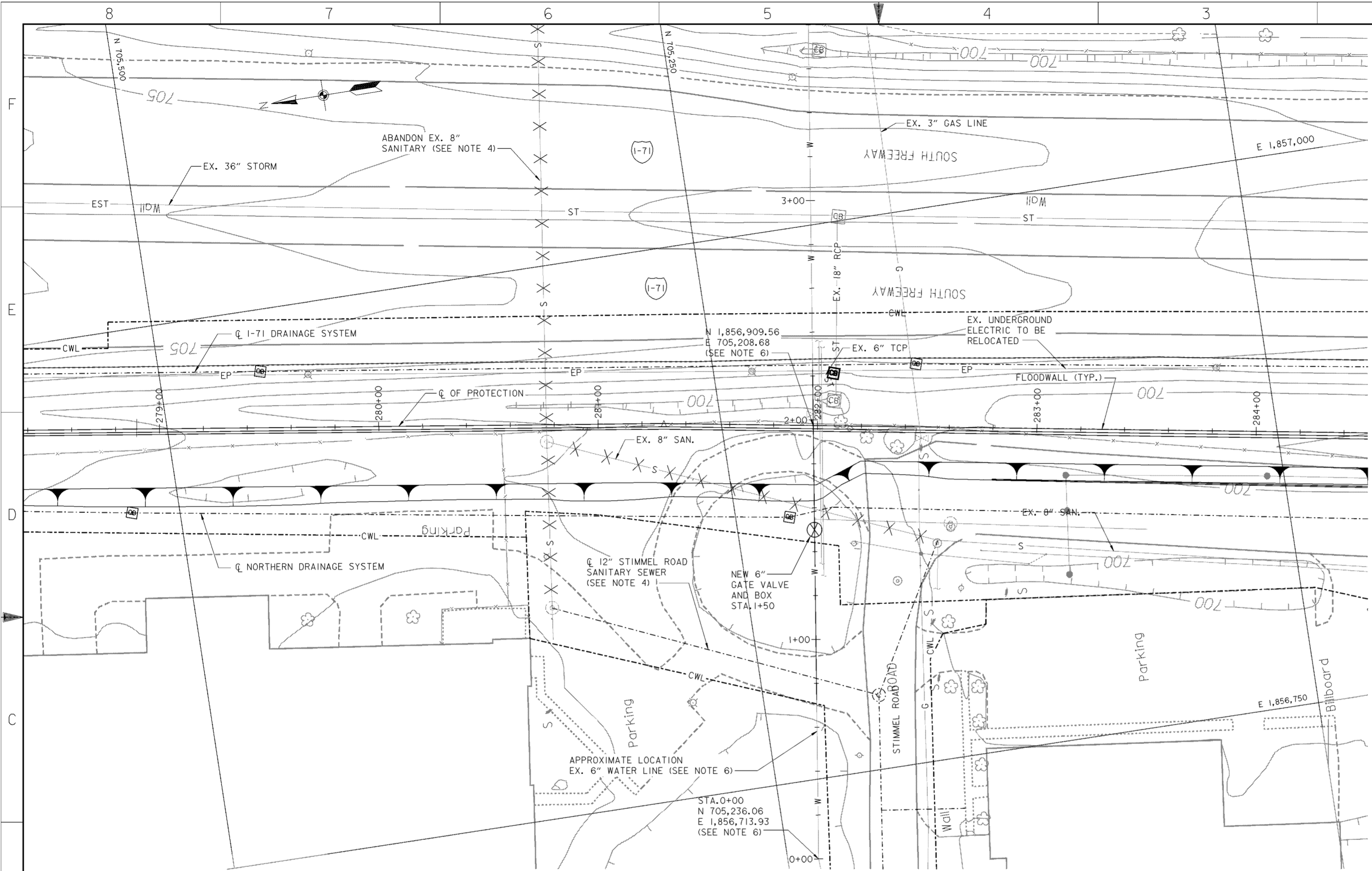
**NOTES**

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR NORTHERN INTERIOR DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
3. FOR GREENLAWN AVENUE STOP LOG CLOSURE SEE DRAWING NOS. 20.2/1 THRU 20.2/18.
4. REMOVE EXISTING 20" WATER LINE IN ACCORDANCE WITH CMSC SECTION 202.04.
5. FOR MISCELLANEOUS WATER LINE DETAILS SEE DRAWING NO. 15.5/3.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

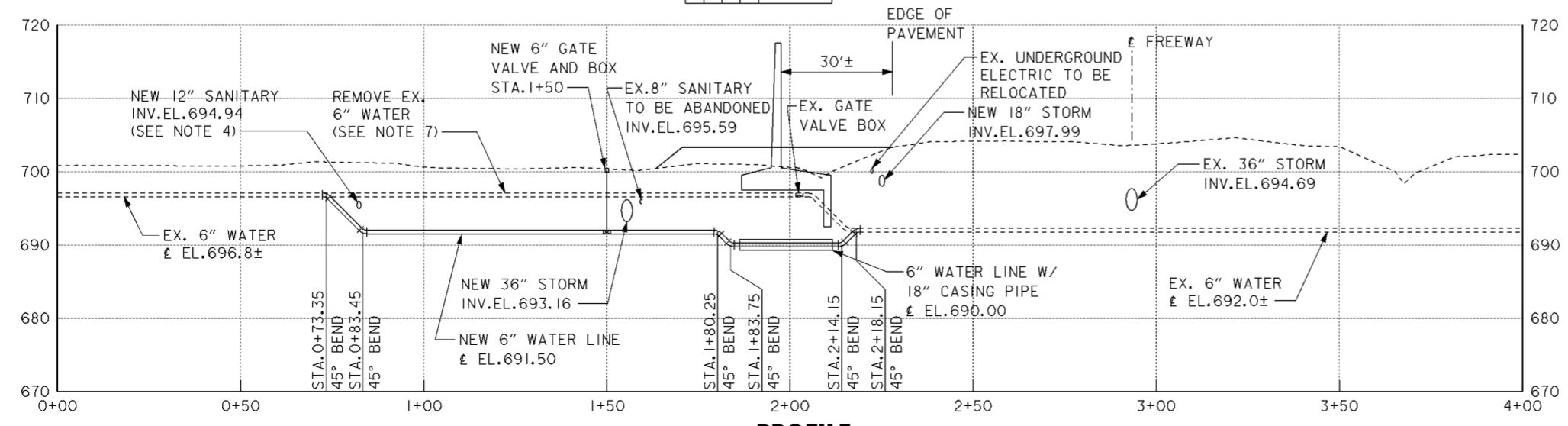
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>P. CONROY</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T. MULLINS</b>	<b>GREENLAWN AVENUE</b> <b>20" WATER LINE</b>
Checked by: <b>R. ROMAN</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
Sheet reference number: <b>15.5/1</b>	FILENAME: PEN TABLE: a0u2pp01.dgn
Sheet <b>1</b> of <b>1</b>	

**WORK AS CONSTRUCTED**



**PLAN**

SCALE: 1" = 20'



**PROFILE**

**LEGEND**

X X X - LINE TO BE ABANDONED/REMOVED

**NOTES**

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
2. FOR NORTHERN INTERIOR DRAINAGE SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
3. FOR I-71 DRAINAGE SEE DRAWING NOS. 15.1/10 THRU 15.1/24.
4. FOR STIMMEL ROAD SANITARY SEWER AND BULKHEADS SEE DRAWING NOS. 15.2/1 AND 15.2/2.
5. FOR MISCELLANEOUS WATER LINE DETAILS SEE DRAWING NO. 15.5/3.
6. EXISTING 6" WATER LINE APPROXIMATE LOCATION OBTAINED FROM CITY OF COLUMBUS DRAWING CC-239. CONTRACTOR SHALL FIELD VERIFY.
7. REMOVE EXISTING 6" WATER LINE AND GATE VALVE IN ACCORDANCE WITH CMSC SECTION 202.04.
8. THE LOCATION AND DEPTH OF UTILITIES AND STRUCTURES ALONG EMIG DRIVE ARE FROM INFORMATION OBTAINED FROM PREVIOUS SITE DEVELOPMENT PLANS. THE LOCATION, DEPTH AND SUPPORT OF UTILITIES, SERVICE STRUCTURES AND APPURTENANCES ALONG EMIG DRIVE ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING AN INDEPENDENT DETERMINATION OF THE LOCATION AND DEPTH OF UTILITIES AND STRUCTURES ALONG EMIG DRIVE.

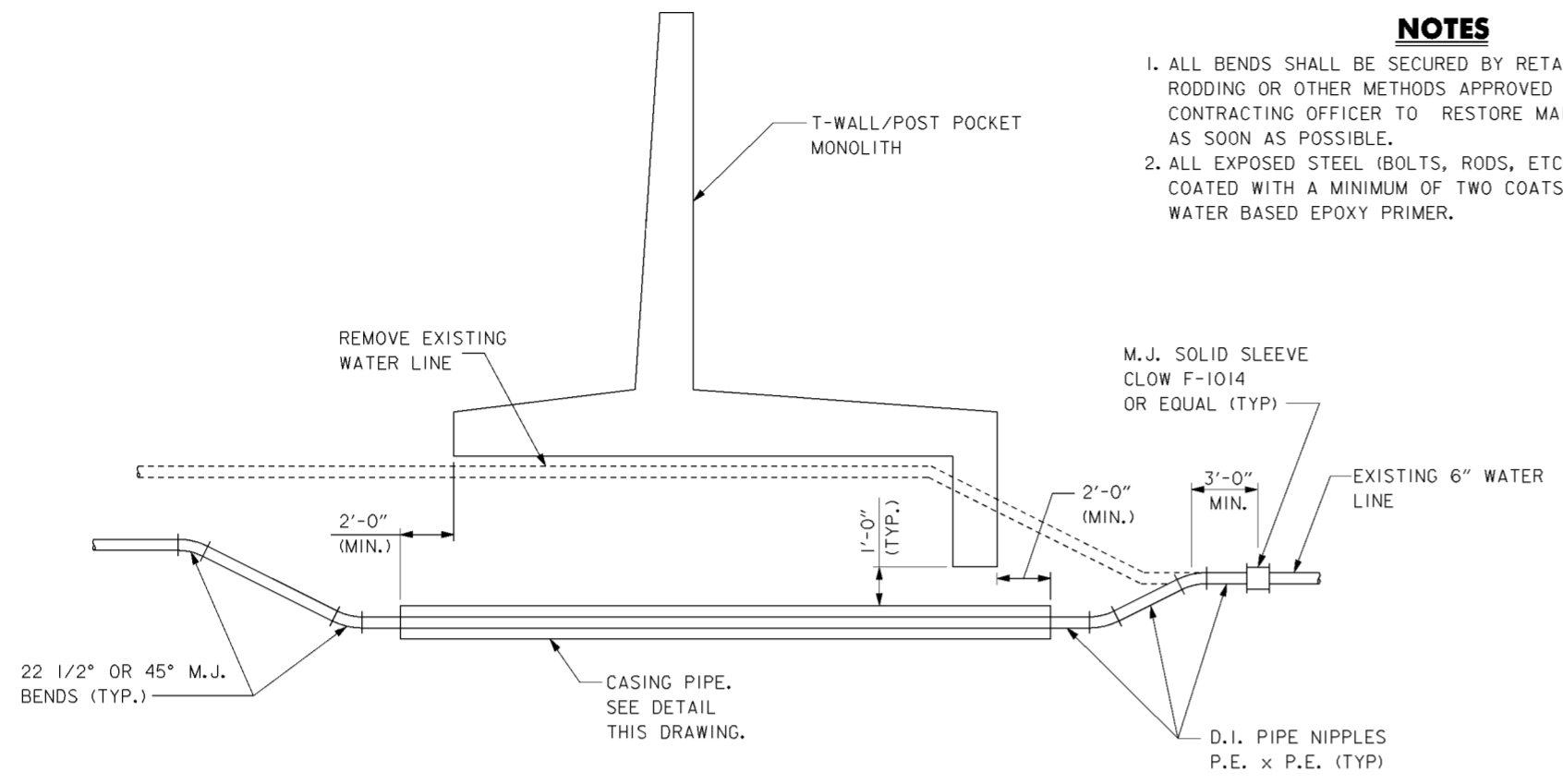
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>P. CONROY</b>	Drawn by: <b>T. MULLINS</b>	<b>STIMMEL ROAD</b> <b>WATER LINE</b>	
Checked by: <b>R. ROMAN</b>	Reviewed by: <b>AS SHOWN</b>		
Approved by:	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>15.52</b>	FILENAME: PEN TABLE: 002pp02.dgn
Drawing Code: <b>016-PWC-13</b>	Sheet <b>1</b> of <b>1</b>	Sheet 1 of 1	

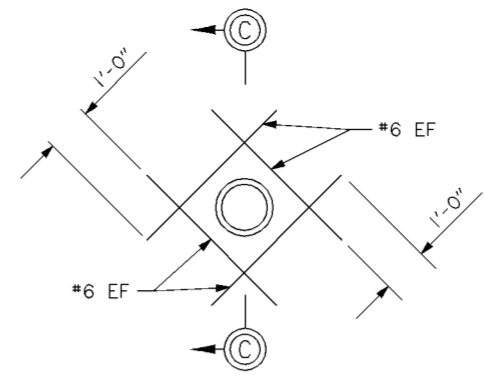
**NOTES**

1. ALL BENDS SHALL BE SECURED BY RETAINING GLANDS, RODDING OR OTHER METHODS APPROVED BY THE CONTRACTING OFFICER TO RESTORE MAIN TO SERVICE AS SOON AS POSSIBLE.
2. ALL EXPOSED STEEL (BOLTS, RODS, ETC.) SHALL BE COATED WITH A MINIMUM OF TWO COATS OF TWO PART WATER BASED EPOXY PRIMER.



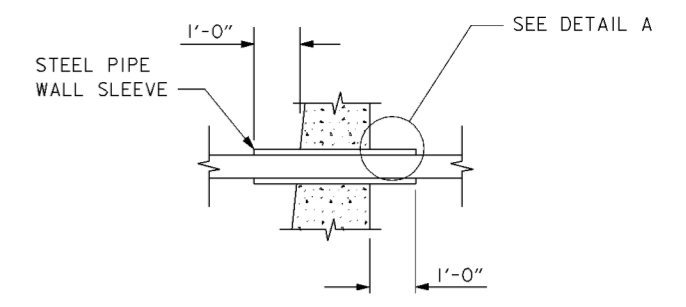
**TYPICAL WATER LINE RELOCATION ELEVATION**

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



**ELEVATION**

NOTE: PIPE SLEEVES TO BE FURNISHED AND INSTALLED BY CONTRACTOR. SPLIT SLEEVES TO BE USED WHEN PIPE CANNOT BE BY-PASSED. SPLIT SLEEVES TO BE CONTINUALLY WELDED FOR WATER TIGHTNESS.



**SECTION C-C**

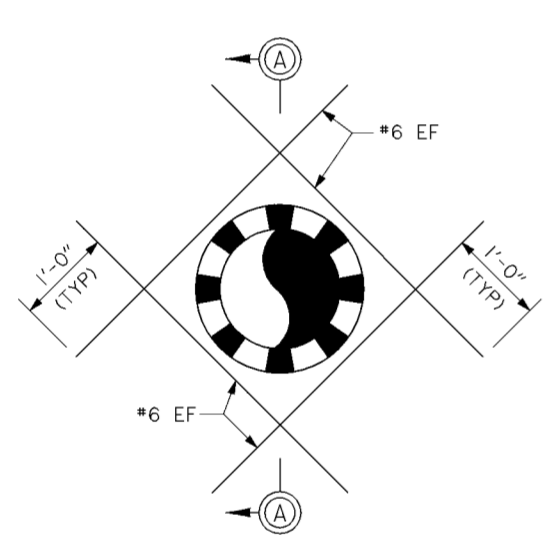
**DETAIL A**

SCALE: NONE

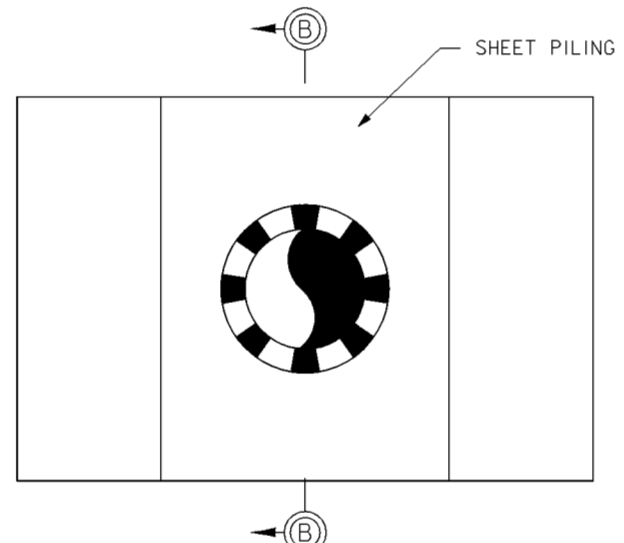
**METHOD OF PASSING UTILITY PIPE THROUGH GATE SILL**

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

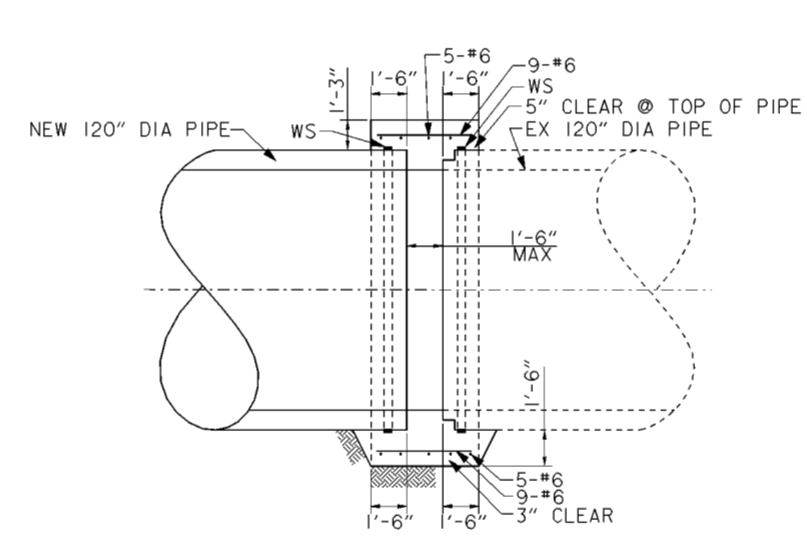
PIPE	WALL SLEEVE SIZE
3"	6"
4"	8"
8"	12"



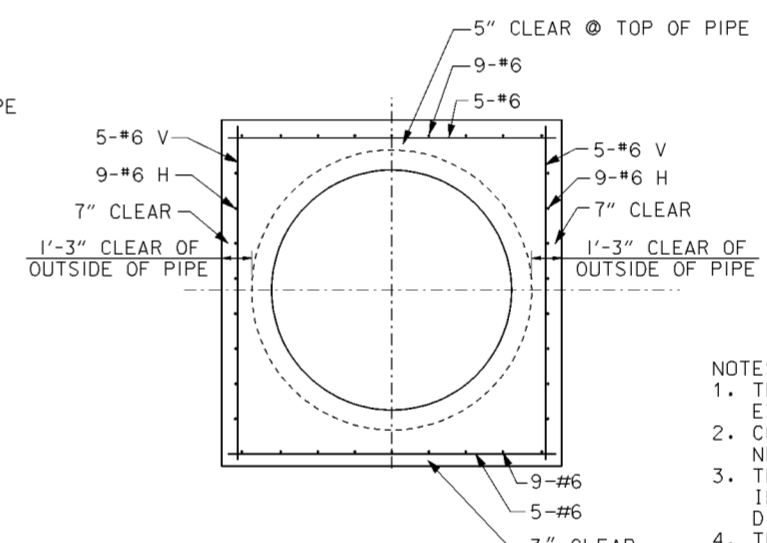
**ELEVATION**



**ELEVATION**



**LONGITUDINAL SECTION**

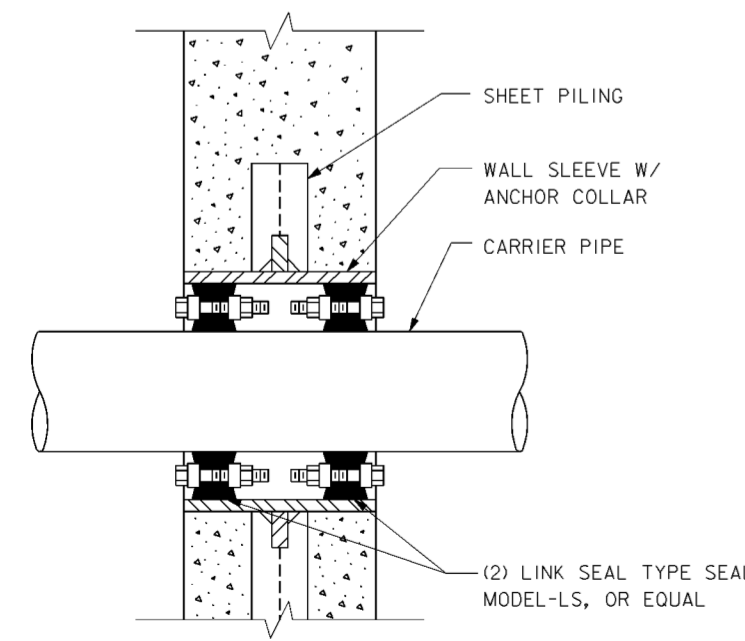


**TRANSVERSE SECTION**

- NOTES:
1. THE GAP BETWEEN THE ENDS OF THE NEW AND EXISTING PIPES SHALL NOT EXCEED 18".
  2. CONCRETE UNDER THE PIPE SHALL BE PLACED NEAT AGAINST THE SOIL.
  3. THE REMAINDER OF THE CONCRETE MAY BE PLACED IN FORMS OR IT MAY BE PLACED NEAT WITH MINIMUM DIMENSIONS SHOWN.
  4. THE INSIDE SURFACE OF THE CONCRETE JOINT BETWEEN THE PIPE SECTIONS SHALL BE FORMED.
  5. WATERSTOP (WS) SHALL BE 'SYNKO-FLEX' BY SYNKO-FLEX, 'HYDROTITE CJ' BY GREENSTREAK, 'ULTRASTOP' BY VINYLEX OR APPROVED EQUAL.
  6. THE WATERSTOP SHALL BE PLACED IN A CONTINUOUS RING AROUND THE END OF THE NEW & EXISTING PIPE.
  7. THE WATERSTOP SHALL BE INSTALLED CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.

**CONCRETE COLLAR**

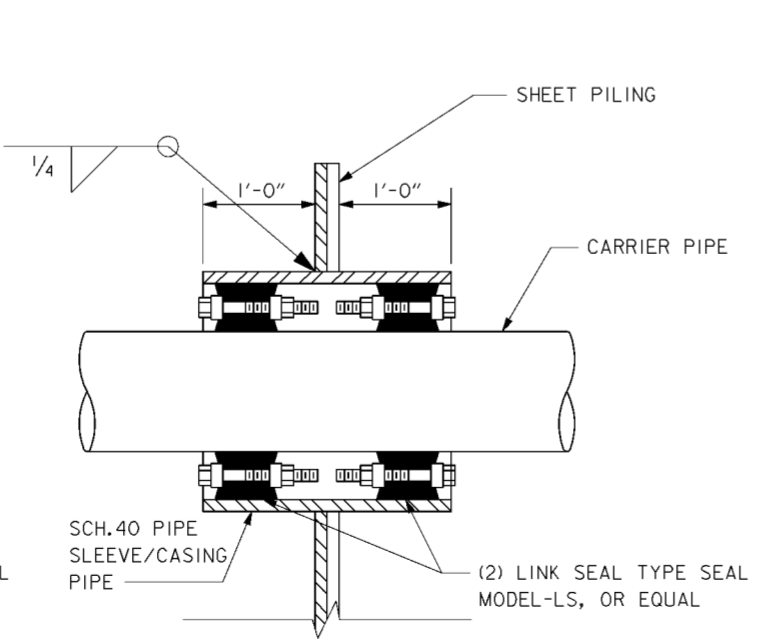
SCALE: 1/4" = 1'-0"



**SECTION A-A**

**TYPICAL PIPE THROUGH FLOODWALL**

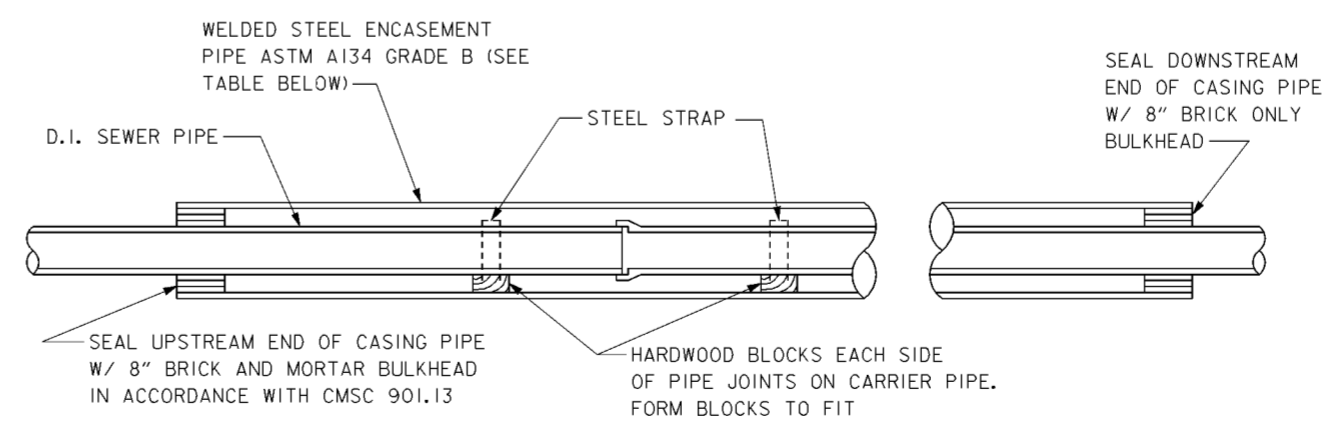
SCALE: NONE



**SECTION B-B**

**TYPICAL PIPE THROUGH SHEET PILING**

SCALE: NONE



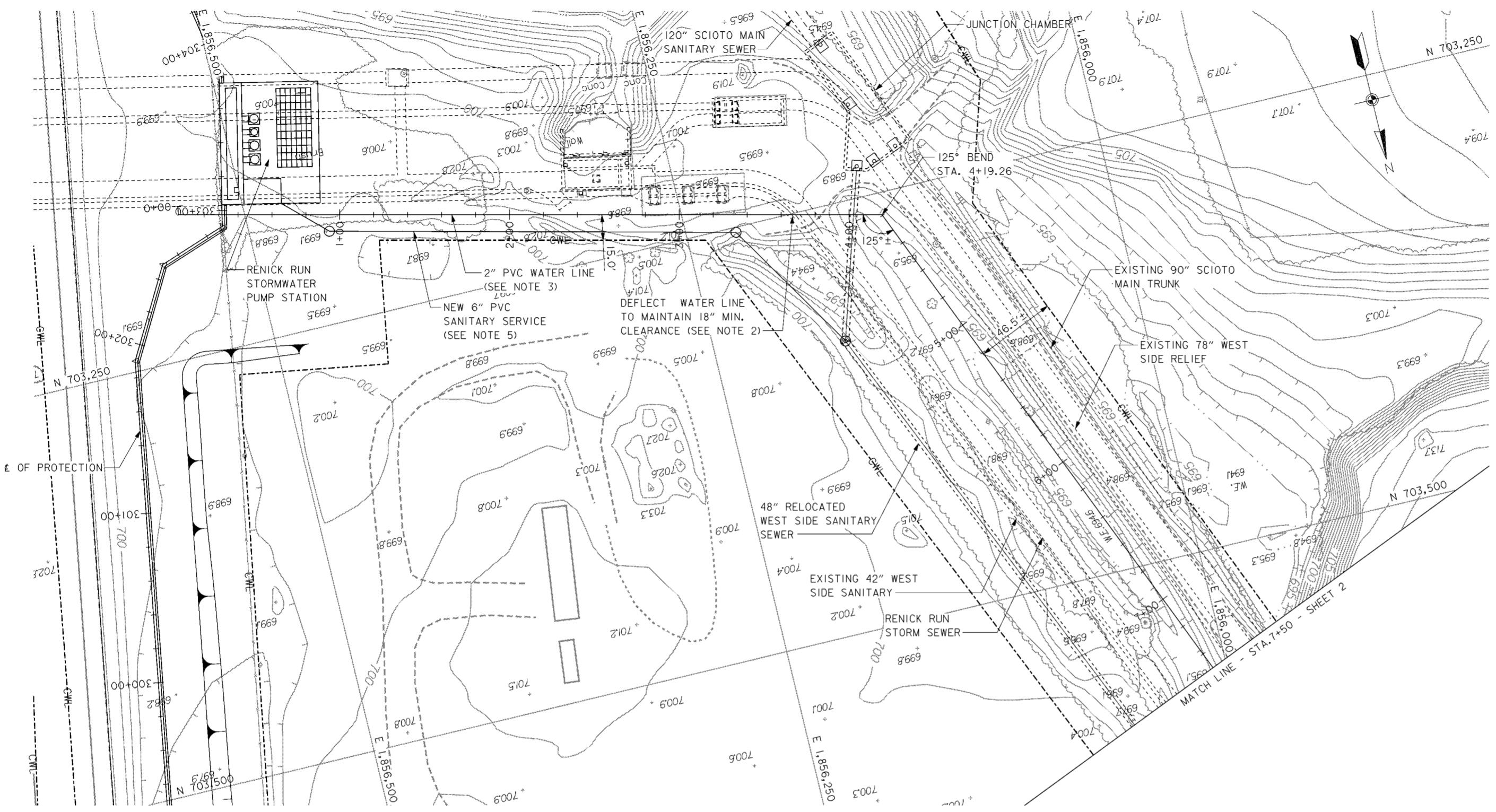
**TYPICAL CASING PIPE DETAIL**

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

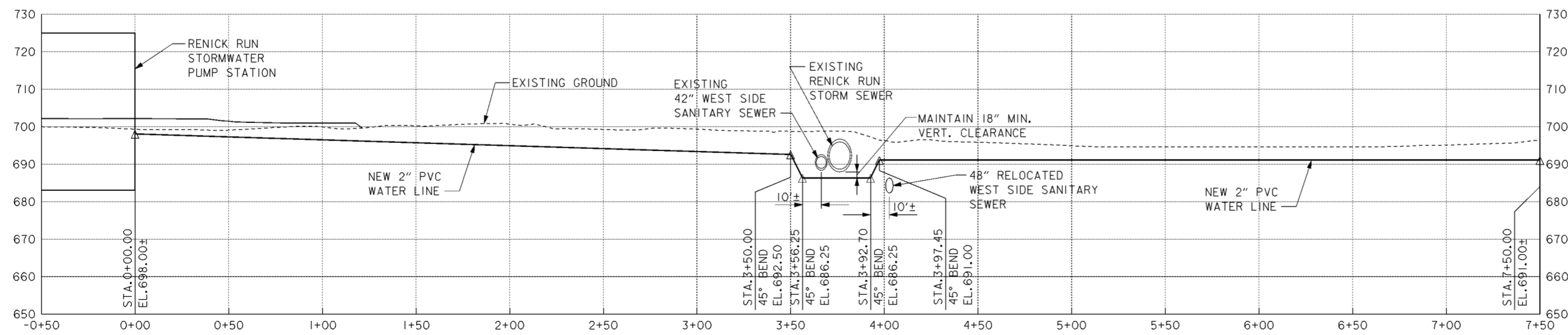
CARRIER PIPE SIZE	CASING PIPE SIZE
6"	18"
20"	36"

Symbol	Revisions Descriptions	Date	Approved
◊	REV. IN ACCORDANCE WITH AMENDMENT NO. 0007	1/26/01	P.O.C.
◊	REV. IN ACCORDANCE WITH AMENDMENT NO. 0006	1/19/01	P.O.C.
◊	REV. IN ACCORDANCE WITH AMENDMENT NO. 0003	12/22/00	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>P.CONROY</b>		<b>SCIOTO RIVER</b> COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>MISCELLANEOUS</b> <b>DETAILS</b>	
Drawn by: <b>T.MULLINS</b>			
Checked by: <b>R.ROMAN</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.5/3</b>	FILENAME: 01u2d101.dgn P.O.C. Sheet 1 of 1



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



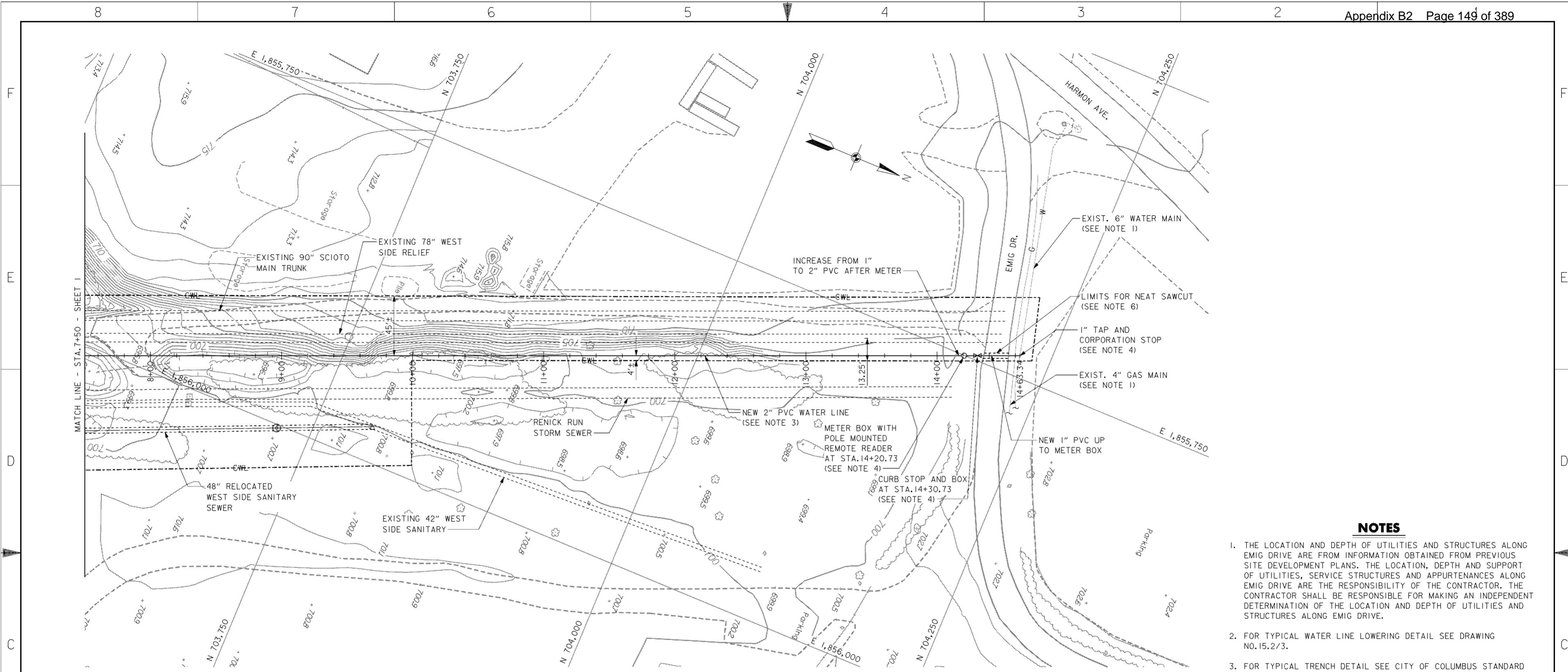
**PROFILE**

- NOTES**
1. THE LOCATION AND DEPTH OF UTILITIES AND STRUCTURES ALONG EMIG DRIVE ARE FROM INFORMATION OBTAINED FROM PREVIOUS SITE DEVELOPMENT PLANS. THE LOCATION, DEPTH AND SUPPORT OF UTILITIES, SERVICE STRUCTURES AND APPURTENANCES ALONG EMIG DRIVE ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING AN INDEPENDENT DETERMINATION OF THE LOCATION AND DEPTH OF UTILITIES AND STRUCTURES ALONG EMIG DRIVE.
  2. FOR TYPICAL WATER LINE LOWERING DETAIL SEE DRAWING NO.15.2/3.
  3. FOR TYPICAL TRENCH DETAIL SEE CITY OF COLUMBUS STANDARD DRAWING L-6309.
  4. FOR TYPICAL METER BOX INSTALLATION SEE CITY OF COLUMBUS STANDARD DRAWINGS L-7103A AND L-7103B. FEES FOR APPLICATION, INSTALLATION AND INSPECTION BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR.
  5. FOR NEW 6" SANITARY SERVICE SEE DRAWING NO.15.3/1.
  6. FOR PAVEMENT AND UTILITY CUT REPAIR STANDARDS SEE CITY OF COLUMBUS STANDARD DRAWING 1441 DR.A (6 SHEETS).

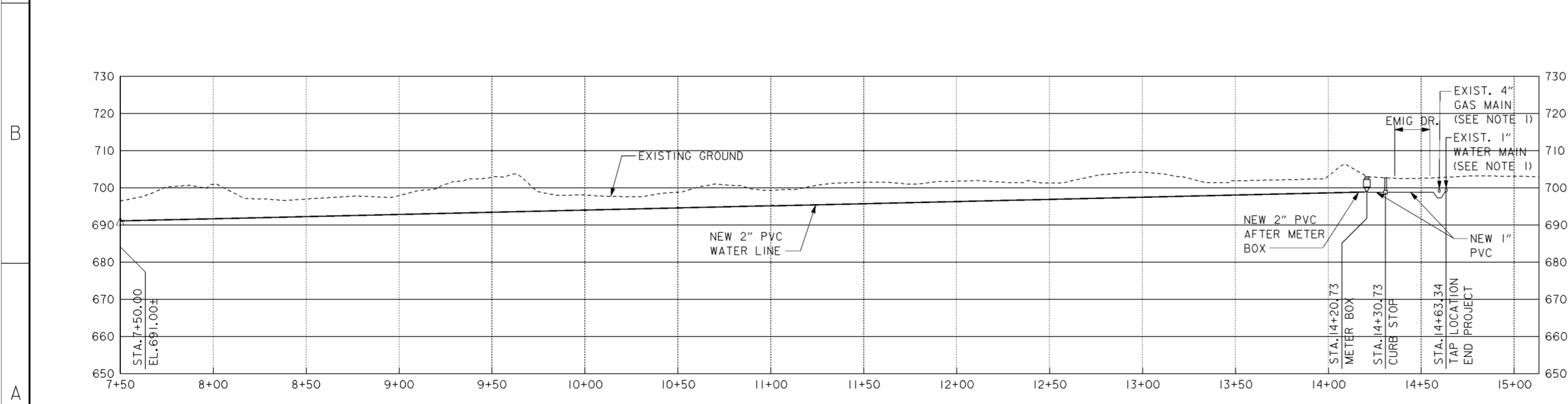
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>PUMP STATION</b> <b>WATER SERVICE (1 OF 2)</b>	
Designed by: <b>B.SHONK</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.5/4</b>	FILENAME: PIN TABLE: 00u2pp03.dgn
Drawn by: <b>T.MULLINS</b>	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 2
Checked by: <b>P.CONROY</b>	Reviewed by:	Approved by:	Approved by:



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



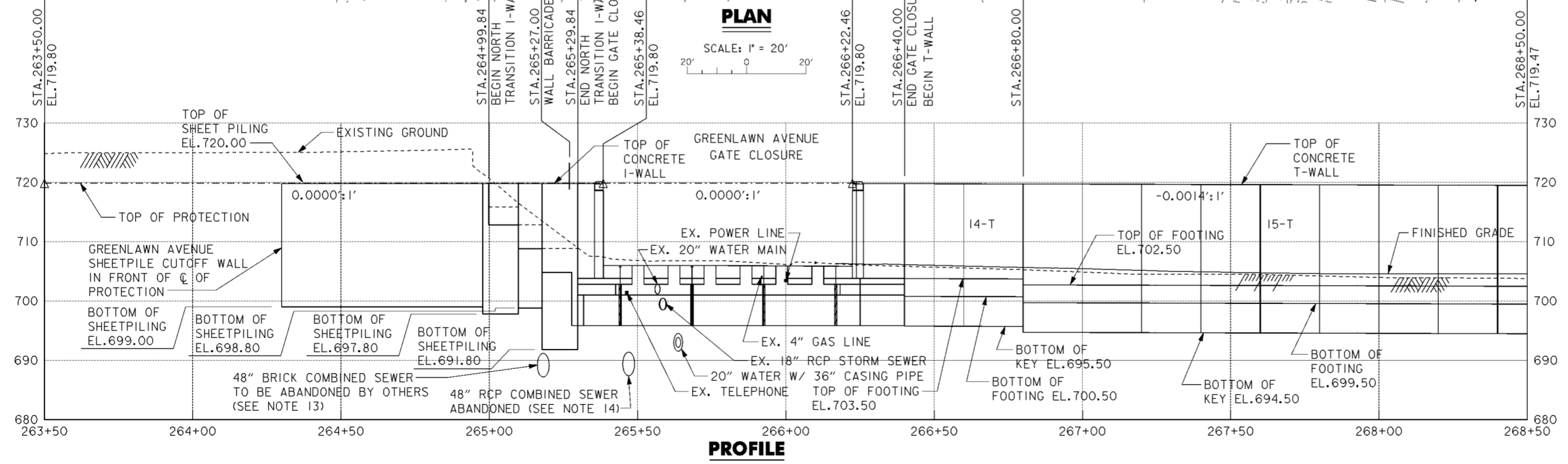
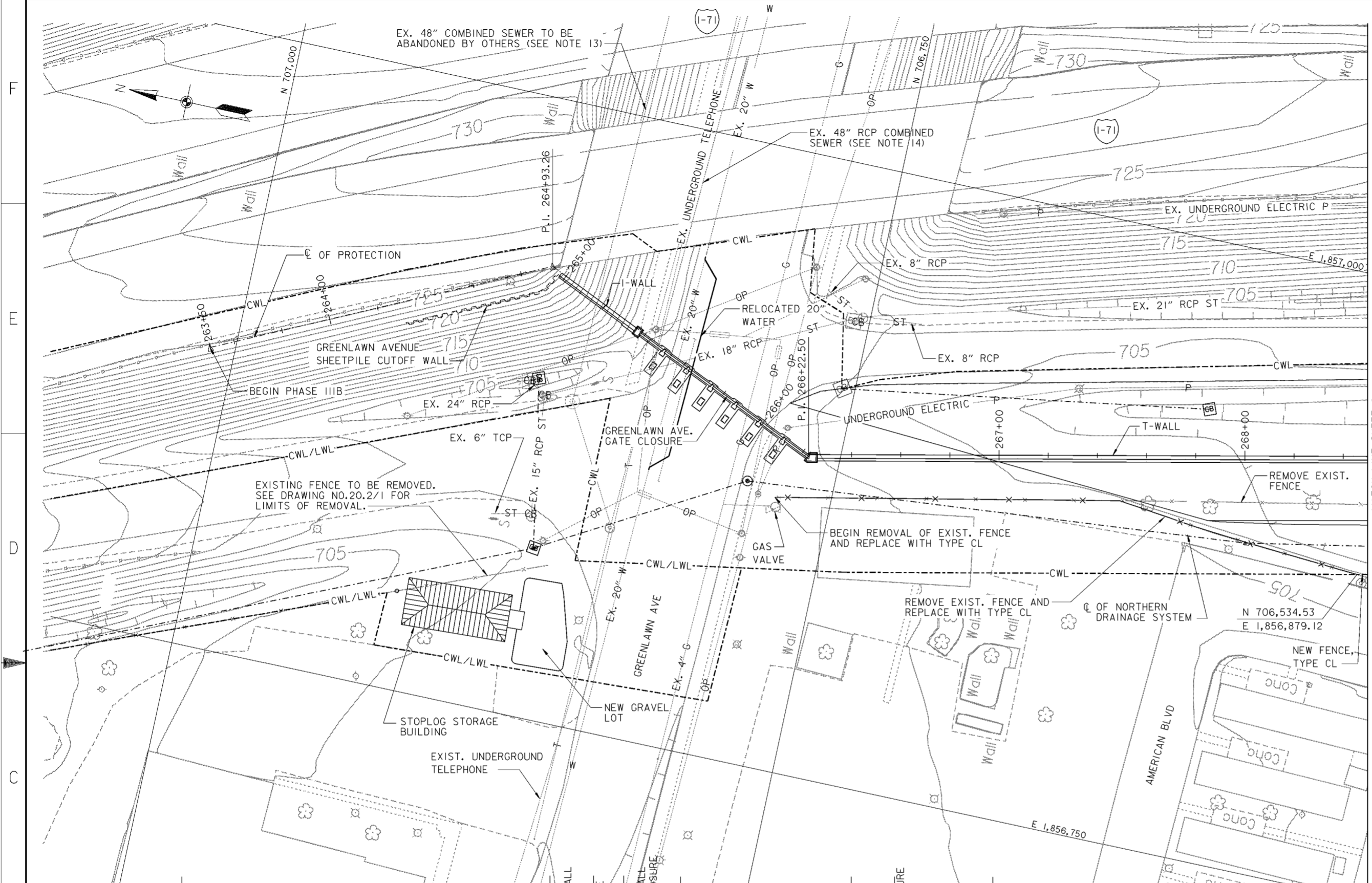
**PROFILE**

- NOTES**
1. THE LOCATION AND DEPTH OF UTILITIES AND STRUCTURES ALONG EMIG DRIVE ARE FROM INFORMATION OBTAINED FROM PREVIOUS SITE DEVELOPMENT PLANS. THE LOCATION, DEPTH AND SUPPORT OF UTILITIES, SERVICE STRUCTURES AND APPURTENANCES ALONG EMIG DRIVE ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING AN INDEPENDENT DETERMINATION OF THE LOCATION AND DEPTH OF UTILITIES AND STRUCTURES ALONG EMIG DRIVE.
  2. FOR TYPICAL WATER LINE LOWERING DETAIL SEE DRAWING NO. 15.2/3.
  3. FOR TYPICAL TRENCH DETAIL SEE CITY OF COLUMBUS STANDARD DRAWING L-6309.
  4. FOR TYPICAL METER BOX INSTALLATION SEE CITY OF COLUMBUS STANDARD DRAWINGS L-7103A AND L-7103B.
  5. FOR NEW 6" SANITARY SERVICE SEE DRAWING NO. 15.3/1.
  6. FOR PAVEMENT AND UTILITY CUT REPAIR STANDARDS SEE CITY OF COLUMBUS STANDARD DRAWING 1441 DR.A (6 SHEETS).

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO Designed by: <b>B.SHONK</b> Drawn by: <b>T.MULLINS</b> Checked by: <b>P.CONROY</b> Reviewed by: <b>AS SHOWN</b> Approved by:		<b>U.S.ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>PUMP STATION</b> <b>WATER SERVICE (2 OF 2)</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>15.5/5</b>	FILENAME: PIN TABLE: 00u2pp04.dgn
			Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 2 of 2

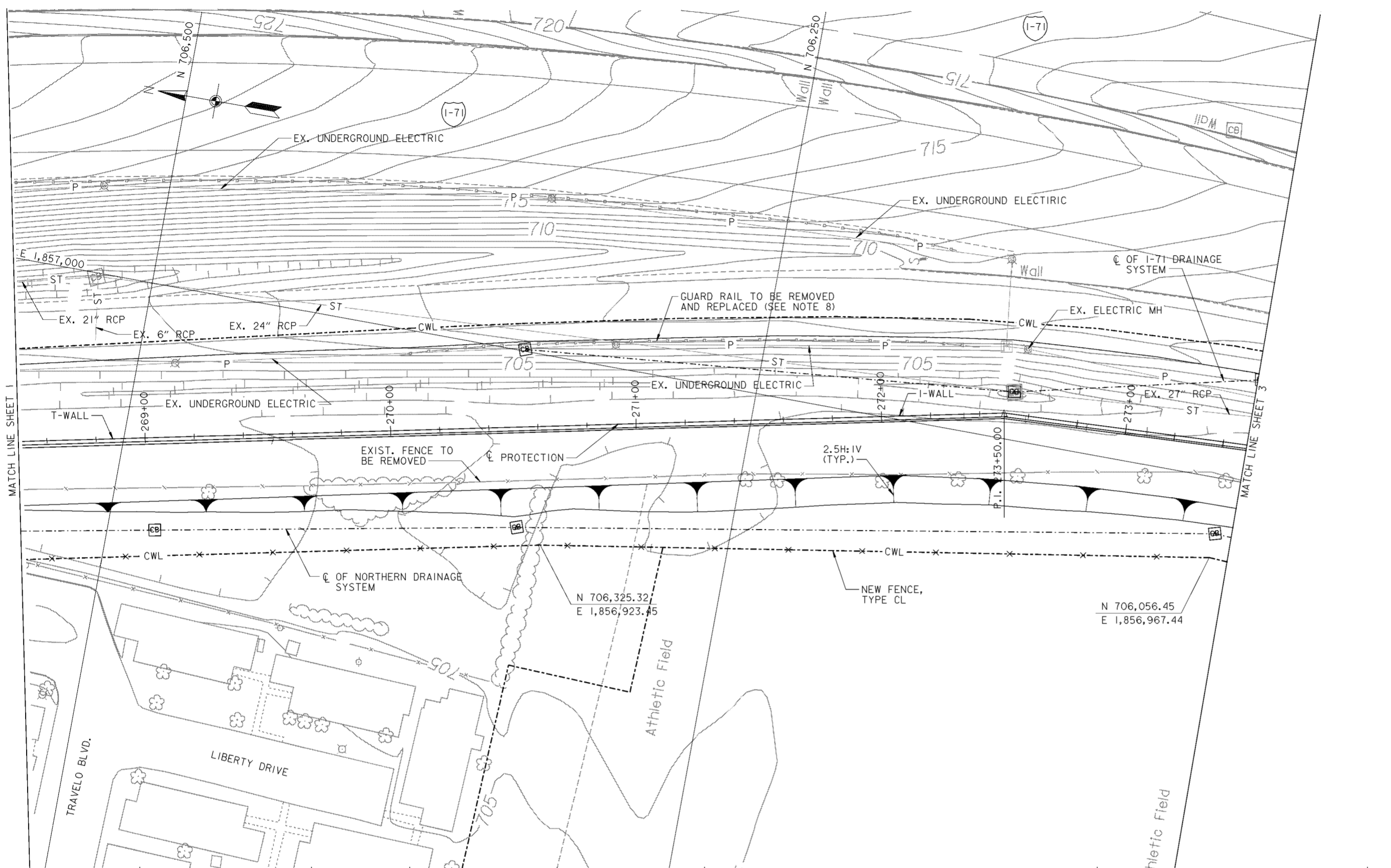


- NOTES**
- FOR CROSS SECTIONS, SEE DRAWING NOS. 16/20 AND 16/21.
  - FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
  - FOR GREENLAWN AVENUE GATE CLOSURE SEE DRAWING NOS. 20.2/1 THRU 20.2/10.
  - FOR STOPLOG STORAGE BUILDING SEE DRAWING NOS. 20.2/19 THRU 20.2/21.
  - FOR NORTH TRANSITION I-WALL SEE DRAWING NO. 20.2/11.
  - FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
  - FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1
  - FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
  - JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
  - FOR GREENLAWN AVENUE 20" WATER LINE RELOCATION SEE DRAWING NO. 15.5/1.
  - ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO.16/50.
  - EXISTING 48" COMBINED SEWER TO BE ABANDONED BY OTHERS UNDER GREENLAWN AVE. PLAN 1543 DR. E.
  - EXISTING 48" COMBINED SEWER WAS ABANDONED BY FRA-62-12.56.
  - ALL SHEET PILING FOR GREENLAWN AVENUE SHEETPILE CUTOFF WALL AND BELOW THE T-WALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

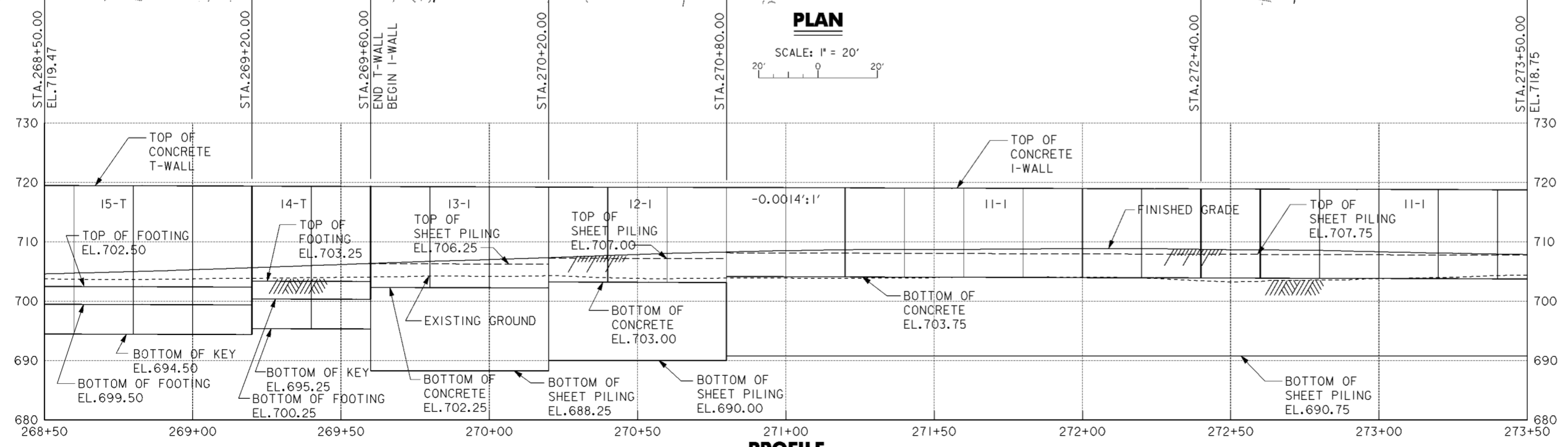
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. HALL</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>PLAN AND PROFILE</b> <b>263+50 TO 268+50</b>		
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/1</b>	FILENAME: EDDC00tpp01.dwg PIN TABLE: STD.b.tbl STD.d.tbl
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 18



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



**PROFILE**

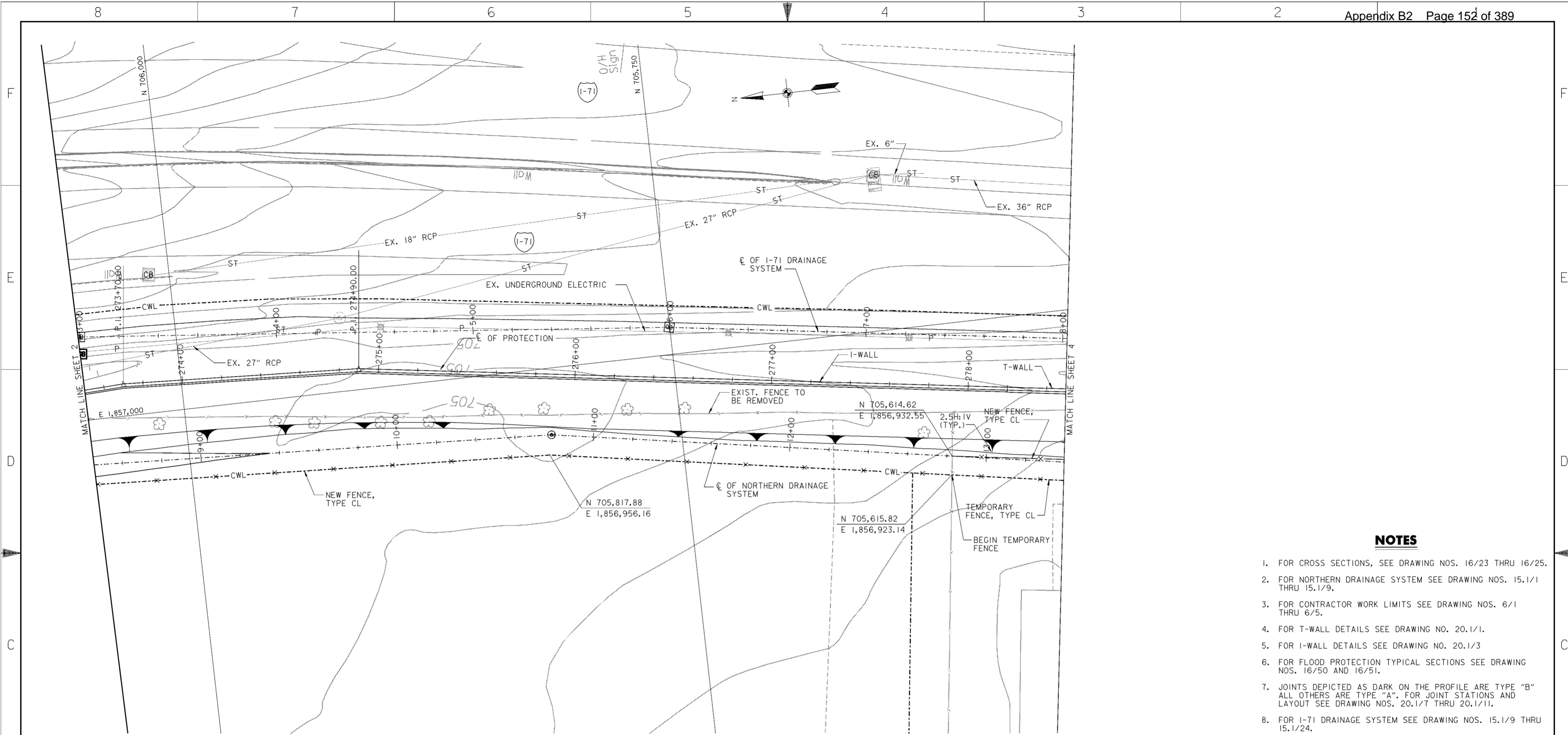
**NOTES**

1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/21 THRU 16/23.
2. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3
6. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
7. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
8. ODOT TYPE 5 GUARD RAIL. CONTRACTOR SHALL FIELD SURVEY THE GUARD RAIL LOCATION PRIOR TO REMOVAL. THE GUARD RAIL SHALL BE REMOVED AND STORED FOR REUSE TO THE ORIGINAL LOCATION AFTER DRAINAGE WORK AND FINAL GRADING ARE COMPLETE IN ACCORDANCE WITH CMSC ITEM 606.06.
9. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
10. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/50.
11. ALL SHEET PILING BELOW FLOODWALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

Revisions			
Symbol	Descriptions	Date	Approved

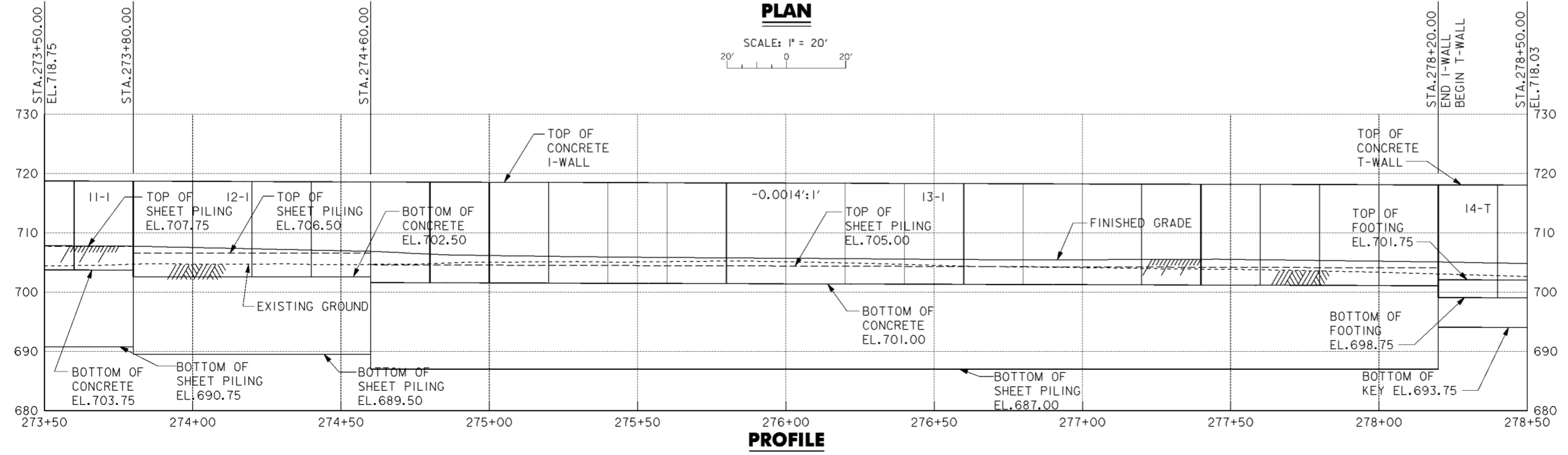
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>J. HALL</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
		Drawn by: <b>T. MULLINS</b>	
Checked by: <b>P. CONROY</b>	<b>PLAN AND PROFILE</b> <b>268 + 50 TO 273 + 50</b>		
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>162</b>	FILENAME: EDC0001pp02.dgn PIN TABLE: STD00.pfb STD01.pfb
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>2</b> of <b>18</b>



**NOTES**

1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/23 THRU 16/25.
2. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3
6. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
7. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
8. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
9. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO.16/50.
10. ALL SHEET PILING BELOW FLOODWALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

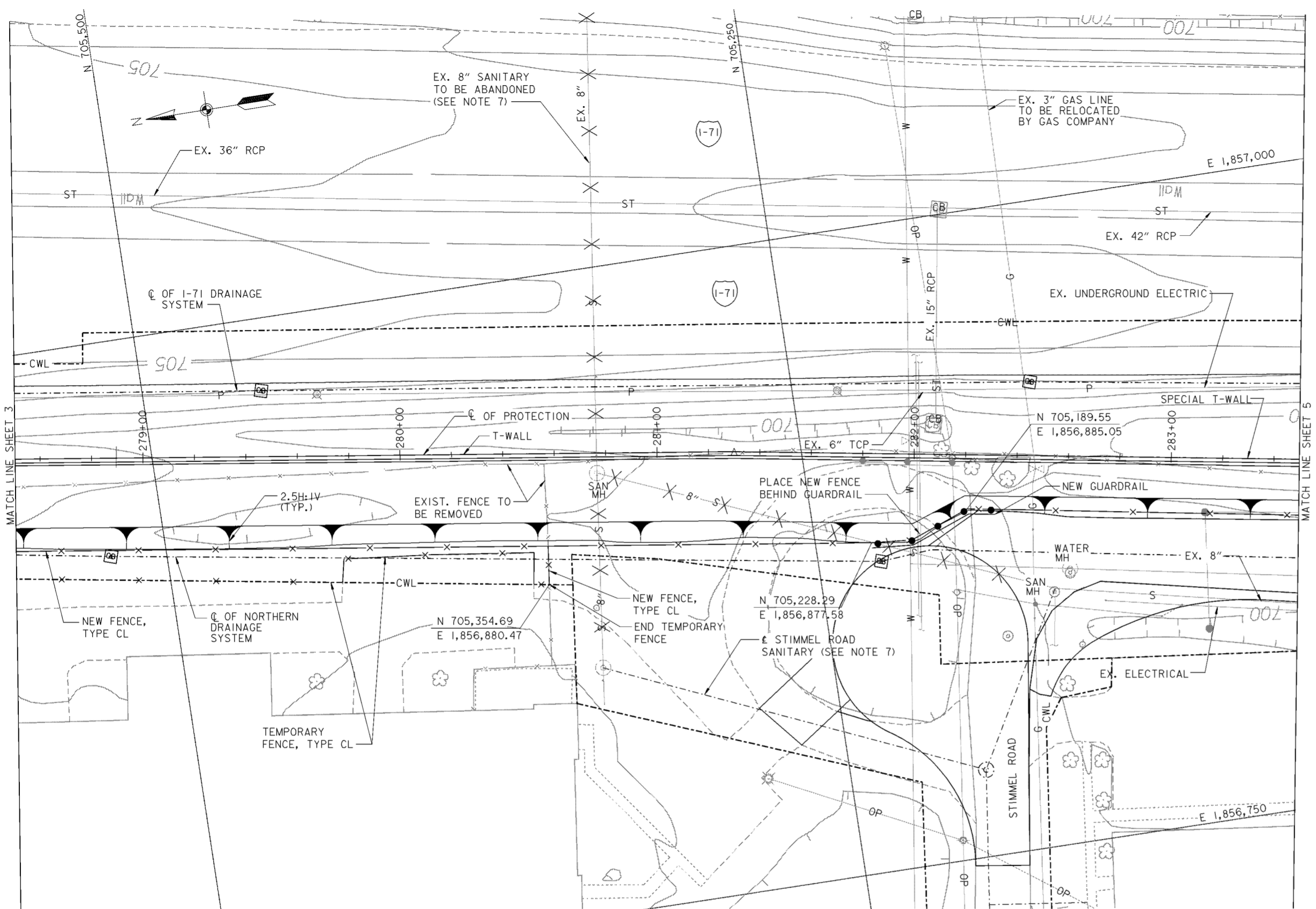


Revisions			
Symbol	Descriptions	Date	Approved

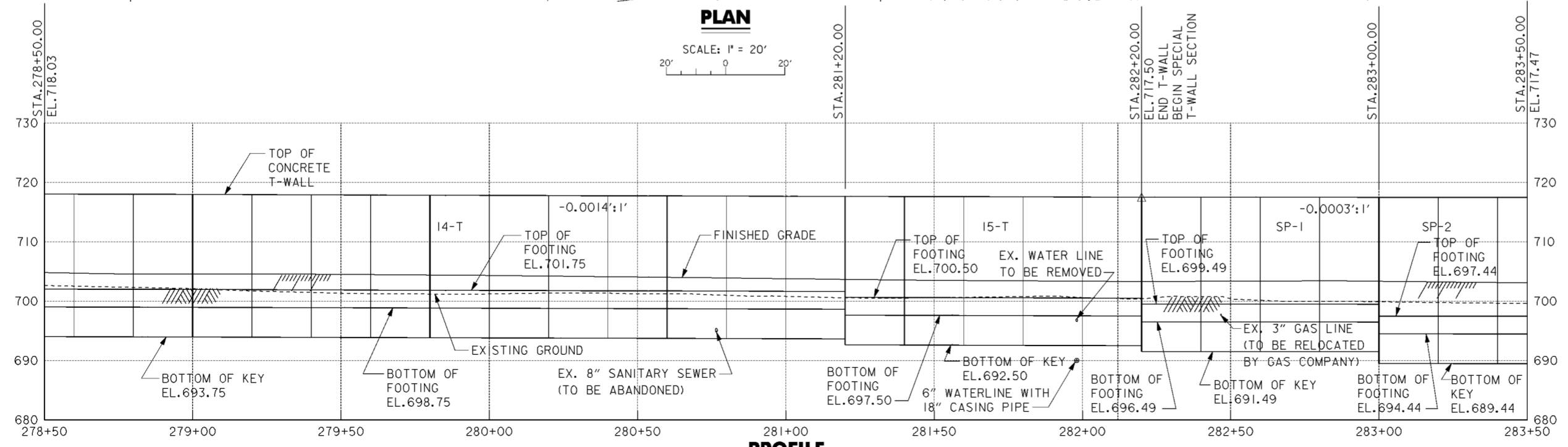
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		Designed by: <b>J. HALL</b>	Drawn by: <b>T. MULLINS</b>
Checked by: <b>P. CONROY</b>	Reviewed by: <b>AS SHOWN</b>	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>
<b>PLAN AND PROFILE</b> <b>273 + 50 TO 278 + 50</b>		Sheet reference number: <b>163</b>	FILENAME: EDDC00tpp03.dwg PIN TABLE: STD.b.plt STD.d.plt Sheet 3 of 18





**PLAN**

SCALE: 1" = 20'



**PROFILE**

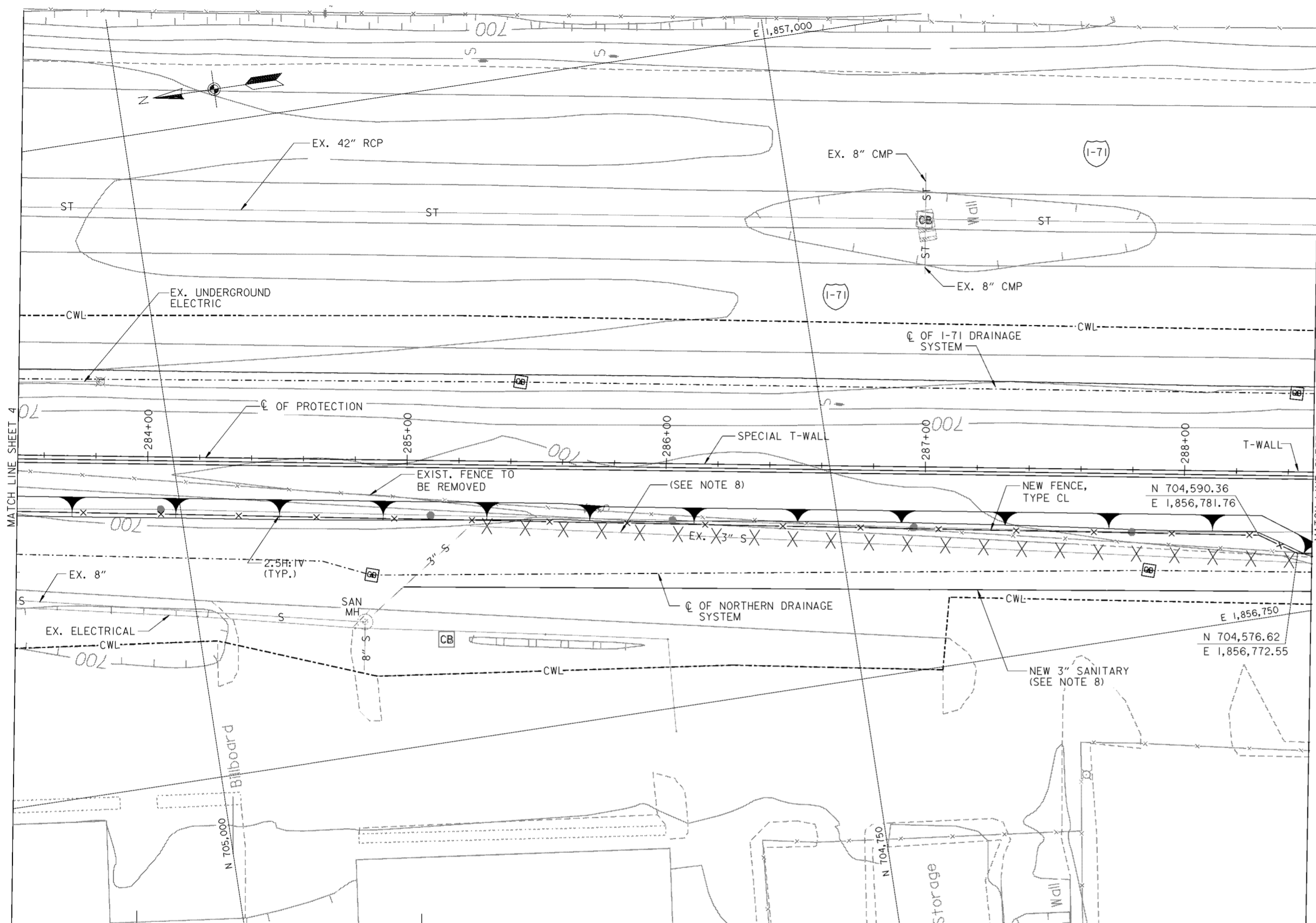
**LEGEND**  
 X X X - LINE TO BE ABANDONED / REMOVED

- NOTES**
- FOR CROSS SECTIONS, SEE DRAWING NOS. 16/25 THRU 16/26.
  - FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
  - FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
  - FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
  - FOR SPECIAL T-WALL DETAILS SEE DRAWING NO. 20.1/2.
  - FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
  - FOR STIMMEL ROAD SANITARY SEWER AND BULKHEADS SEE DRAWING NOS. 15.2/1 THRU 15.2/2.
  - JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
  - FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
  - FOR STIMMEL ROAD WATER LINE RELOCATION SEE DRAWING NO. 15.5/2.
  - ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/50.

Revisions			
Symbol	Descriptions	Date	Approved

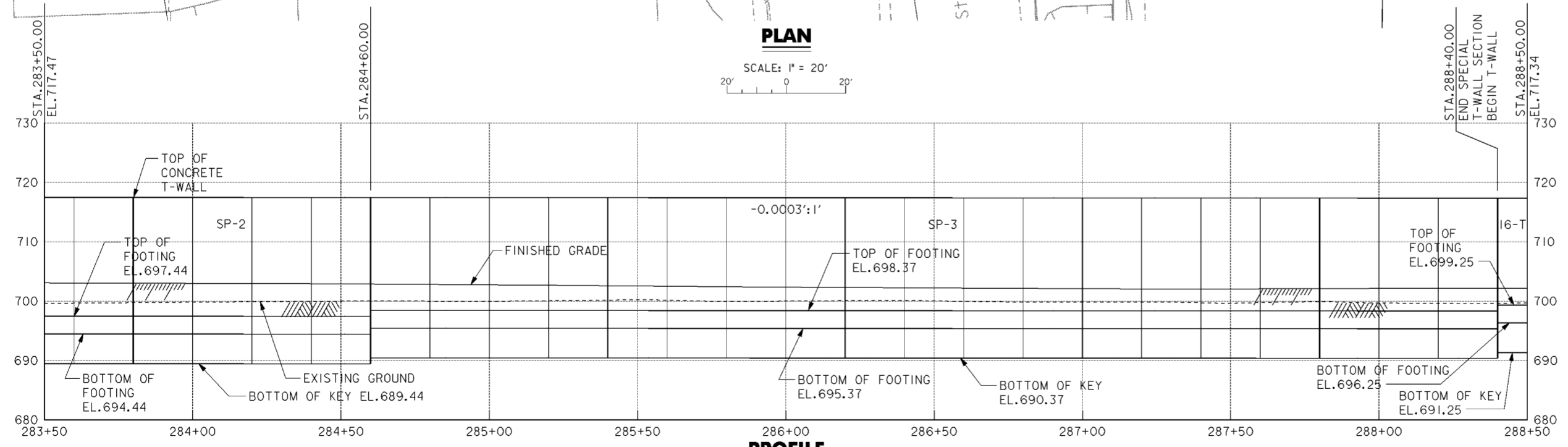
  

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		Designed by: <b>J. HALL</b>	Drawn by: <b>T. MULLINS</b>
Checked by: <b>P. CONROY</b>	Reviewed by: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>164</b>	FILENAME: EDDC00a1pp04.dgn PIN TABLE: STDib.ppt STDi.ppt
Approved by:	Date:	Drawing Code:	Sheet 4 of 18



**PLAN**

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



**PROFILE**

**LEGEND**

X X X - LINE TO BE ABANDONED / REMOVED

**NOTES**

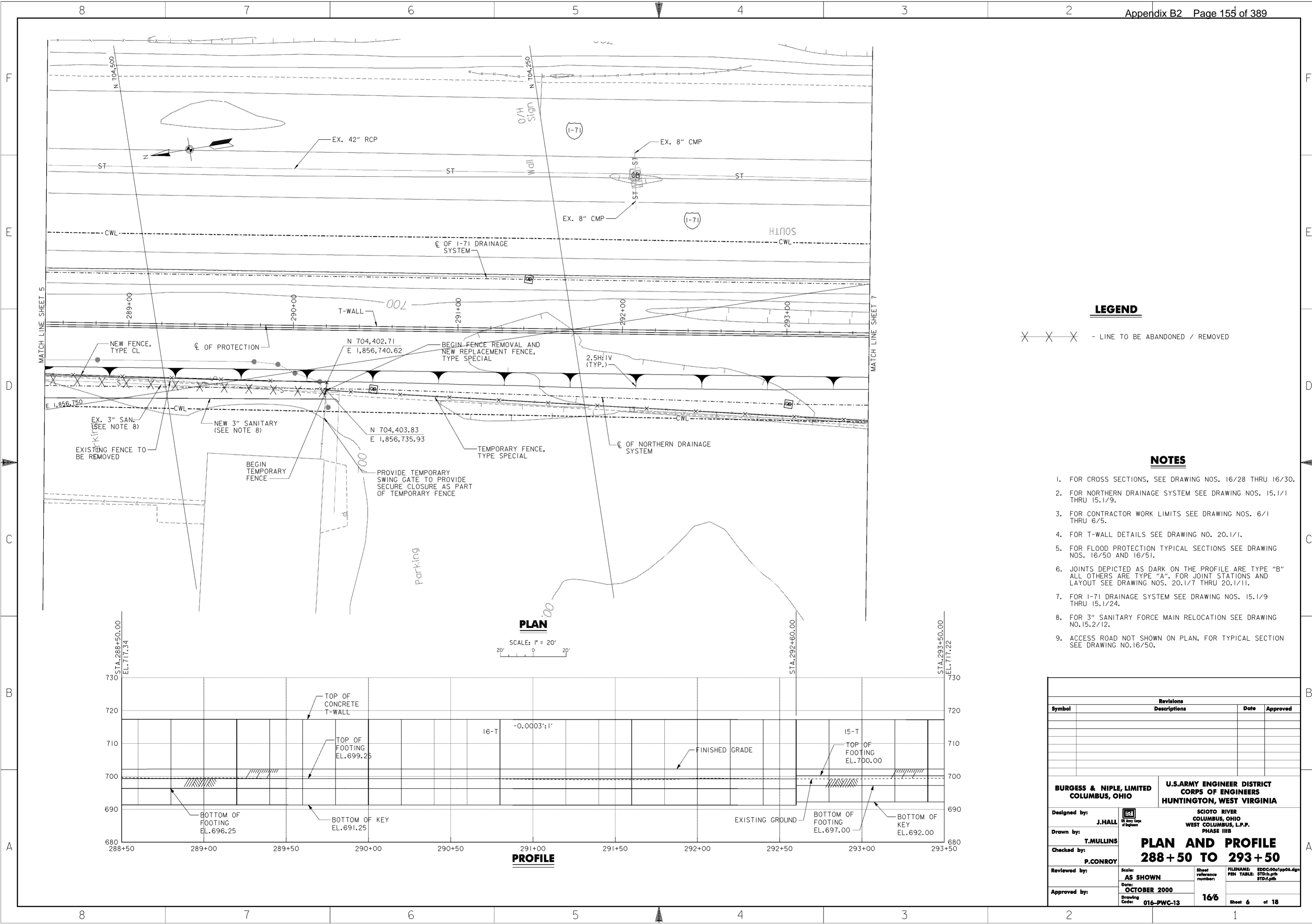
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/26 THRU 16/28.
2. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
6. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
7. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24
8. FOR 3" SANITARY FORCE MAIN RELOCATION SEE DRAWING NO.15.2/12.
9. FOR SPECIAL T-WALL DETAILS SEE DRAWING NO.20.1/2.
10. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO.16/50.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>PLAN AND PROFILE</b> <b>283 + 50 TO 288 + 50</b>	
Designed by: <b>J. HALL</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>165</b>	FILENAME: EDDC001pp05.dgn PIN TABLE: STDa.gib STDc.gib
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by: Date: <b>OCTOBER 2000</b>			
Approved by:	Drawing Code: <b>016-PWC-13</b>	Sheet 5 of 17	165

**WORK AS CONSTRUCTED**



**LEGEND**

X X X - LINE TO BE ABANDONED / REMOVED

**NOTES**

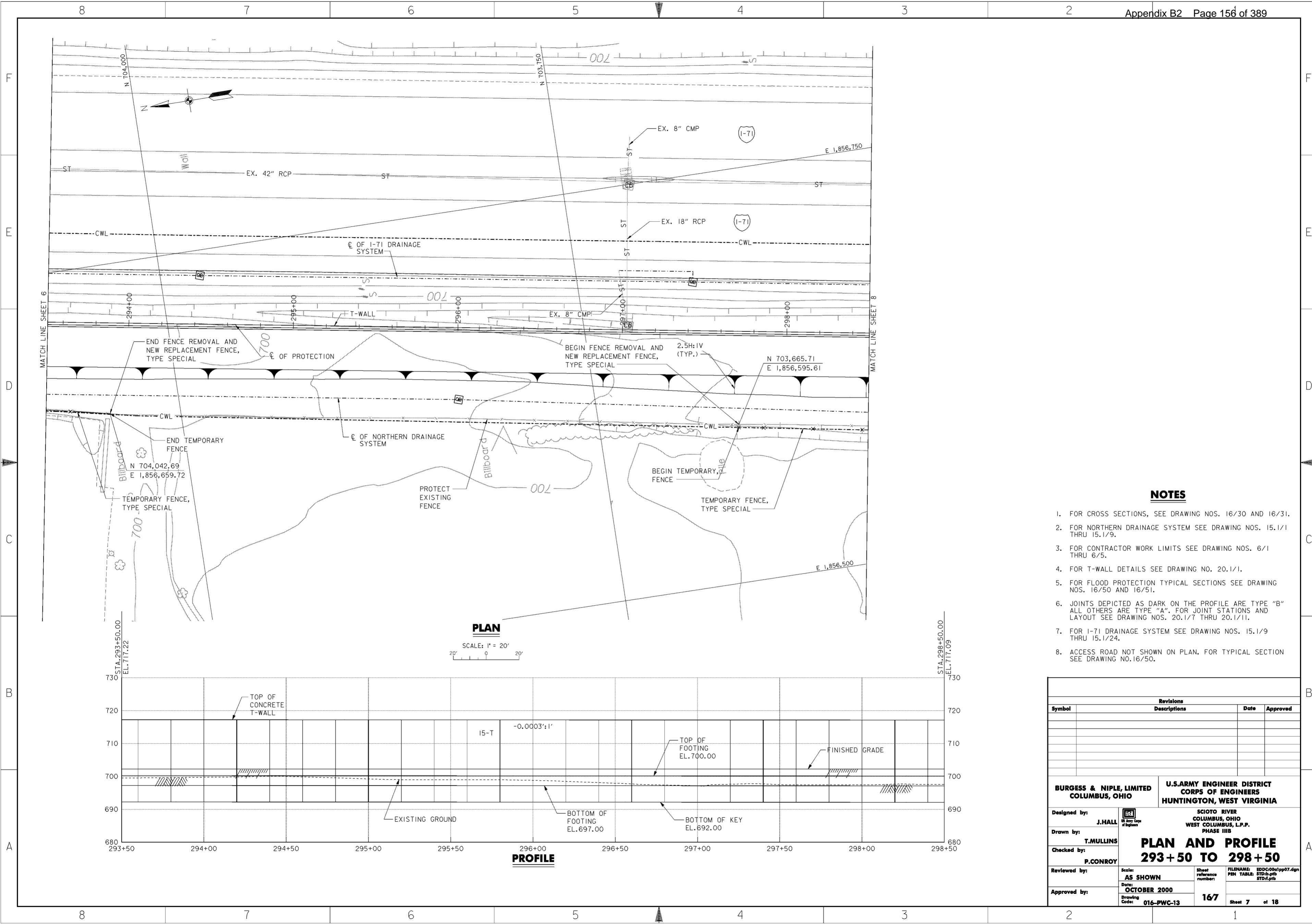
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/28 THRU 16/30.
2. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
6. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
7. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
8. FOR 3" SANITARY FORCE MAIN RELOCATION SEE DRAWING NO. 15.2/12.
9. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/50.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. HALL</b>	<b>PLAN AND PROFILE</b> <b>288 + 50 TO 293 + 50</b>		
Drawn by: <b>T. MULLINS</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/6</b>	FILENAME: EDDC001pp06.dgn PIN TABLE: STD06.tbl STD06.tbl
Checked by: <b>P. CONROY</b>	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	
Reviewed by: <b>P. CONROY</b>	Sheet 6 of 18		
Approved by:	16/6		

**WORK AS CONSTRUCTED**



**NOTES**

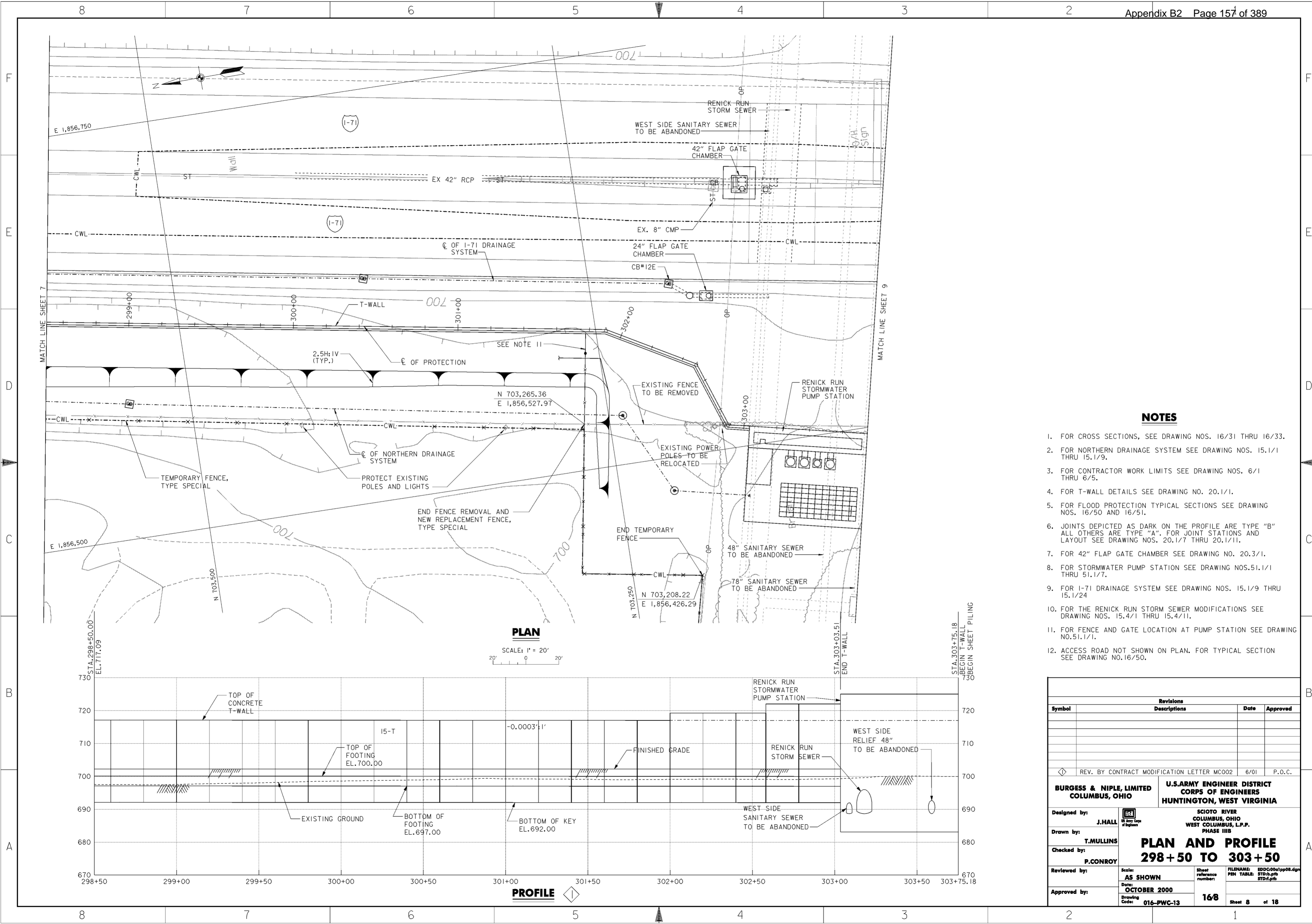
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/30 AND 16/31.
2. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
6. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
7. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
8. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO.16/50.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>PLAN AND PROFILE</b> <b>293 + 50 TO 298 + 50</b>	
Designed by: <b>J. HALL</b>		Drawn by: <b>T. MULLINS</b>	FILENAME: EDDC00a1pp07.dgn PIN TABLE: STD-b.tbl STD-i.plt
Checked by: <b>P. CONROY</b>		Reviewed by: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	
Approved by:	Approved by:	Approved by:	Approved by:

**WORK AS CONSTRUCTED**



**NOTES**

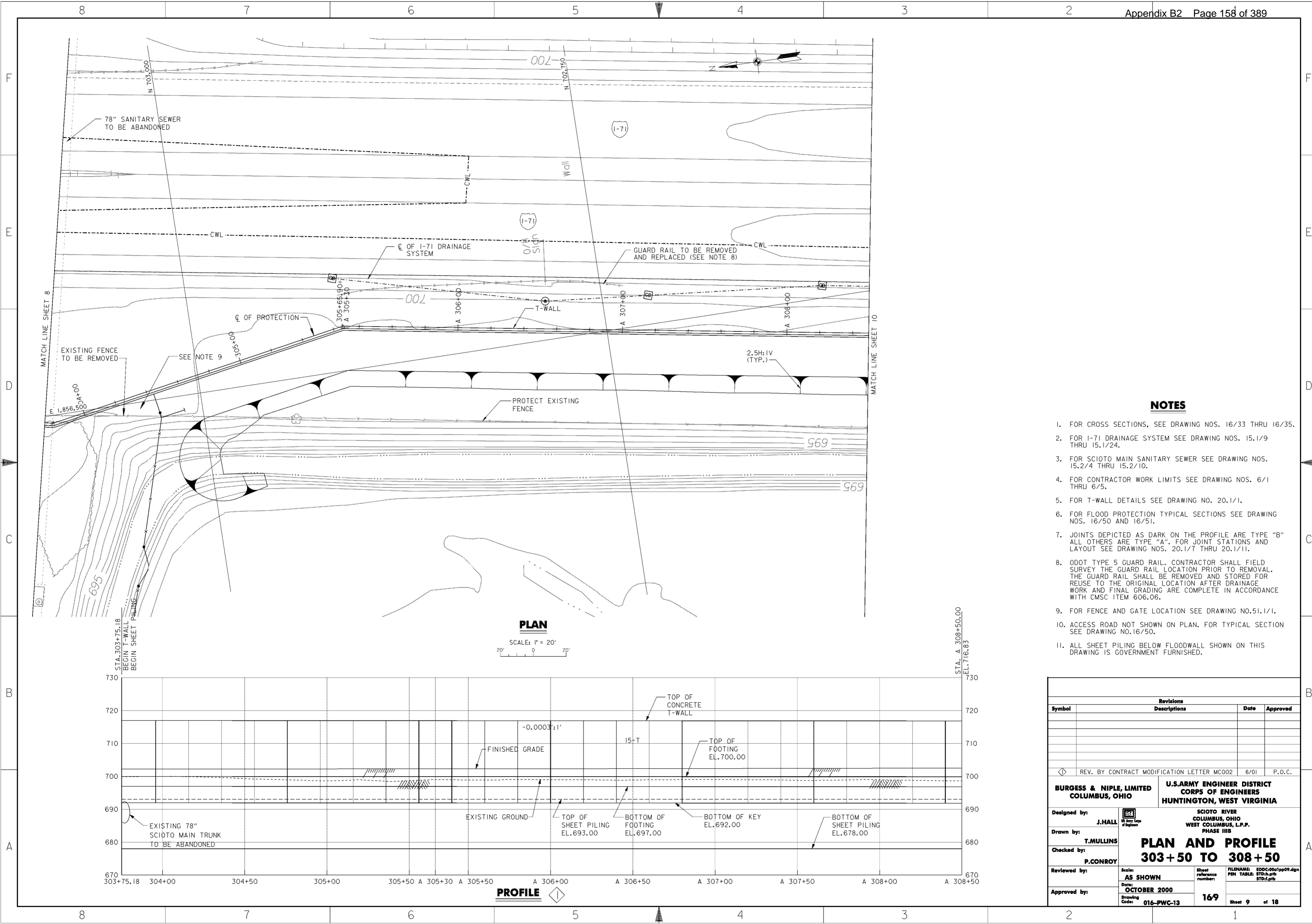
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/31 THRU 16/33.
2. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/1 THRU 15.1/9.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
6. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
7. FOR 42" FLAP GATE CHAMBER SEE DRAWING NO. 20.3/1.
8. FOR STORMWATER PUMP STATION SEE DRAWING NOS. 51.1/1 THRU 51.1/7.
9. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
10. FOR THE RENICK RUN STORM SEWER MODIFICATIONS SEE DRAWING NOS. 15.4/1 THRU 15.4/11.
11. FOR FENCE AND GATE LOCATION AT PUMP STATION SEE DRAWING NO. 51.1/1.
12. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/50.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. BY CONTRACT MODIFICATION LETTER MCO02	6/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>J. HALL</b>	<p align="center"><b>PLAN AND PROFILE</b> <b>298 + 50 TO 303 + 50</b></p> FILENAME: EDDC001pp08.dgn PIN TABLE: STD.b.plt STD.d.plt
Drawn by: <b>T. MULLINS</b>	
Checked by: <b>P. CONROY</b>	
Reviewed by:	
Approved by:	
Scale: <b>AS SHOWN</b>	Sheet reference number: <b>168</b>
Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>
Sheet 8 of 18	

**WORK AS CONSTRUCTED**



**PLAN**

SCALE: 1" = 20'

**PROFILE**

**NOTES**

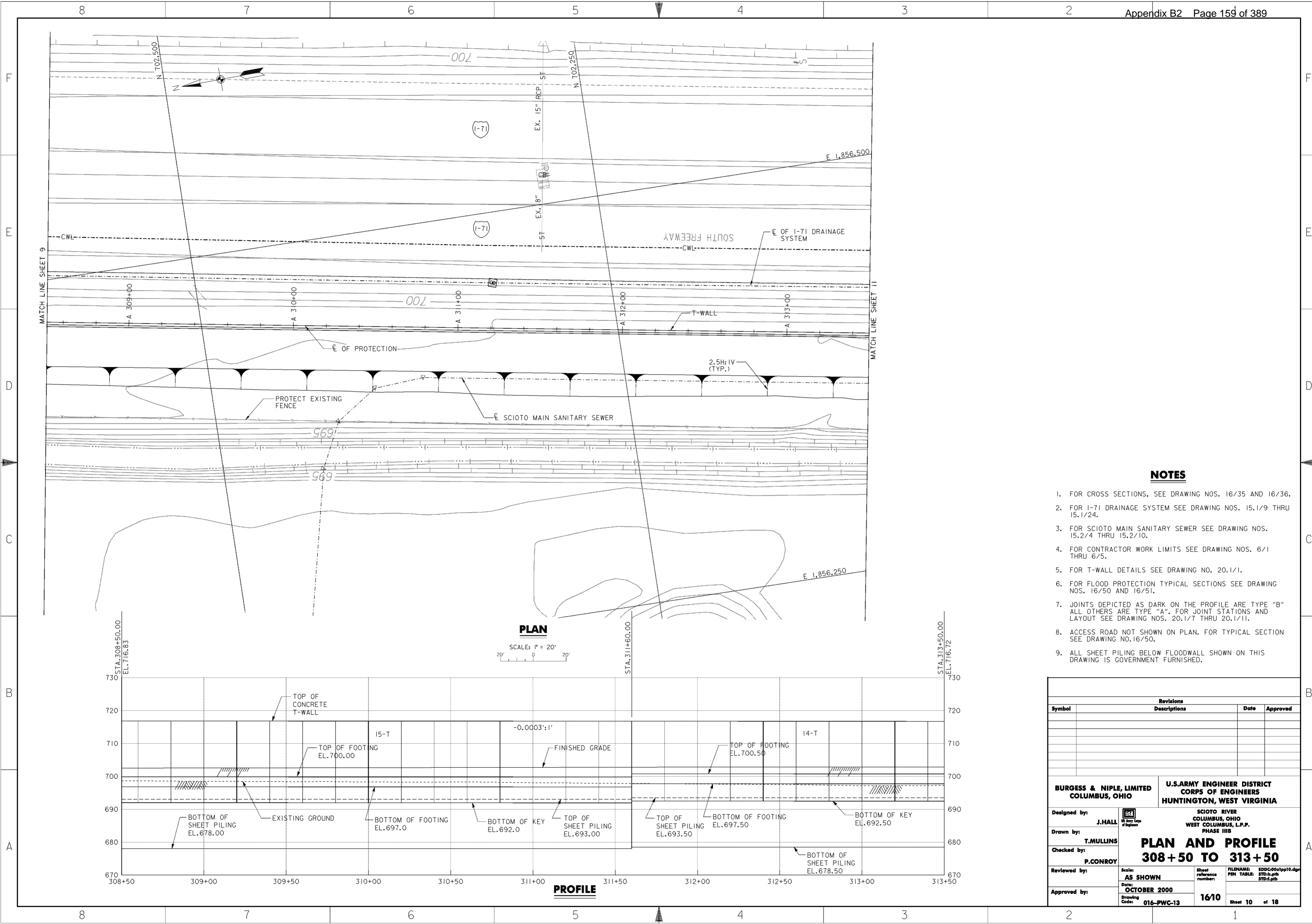
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/33 THRU 16/35.
2. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
3. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
7. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
8. ODOT TYPE 5 GUARD RAIL. CONTRACTOR SHALL FIELD SURVEY THE GUARD RAIL LOCATION PRIOR TO REMOVAL. THE GUARD RAIL SHALL BE REMOVED AND STORED FOR REUSE TO THE ORIGINAL LOCATION AFTER DRAINAGE WORK AND FINAL GRADING ARE COMPLETE IN ACCORDANCE WITH CMSC ITEM 606.06.
9. FOR FENCE AND GATE LOCATION SEE DRAWING NO.51.1/1.
10. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO.16/50.
11. ALL SHEET PILING BELOW FLOODWALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. BY CONTRACT MODIFICATION LETTER MCO02	6/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. HALL</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>PLAN AND PROFILE</b> <b>303 + 50 TO 308 + 50</b>		
Checked by: <b>P. CONROY</b>			
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>169</b>	FILENAME: EDC0001pp09.dgn PIN TABLE: STD.b.ptb STD.i.plt
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>9</b> of <b>18</b>

**WORK AS CONSTRUCTED**



**NOTES**

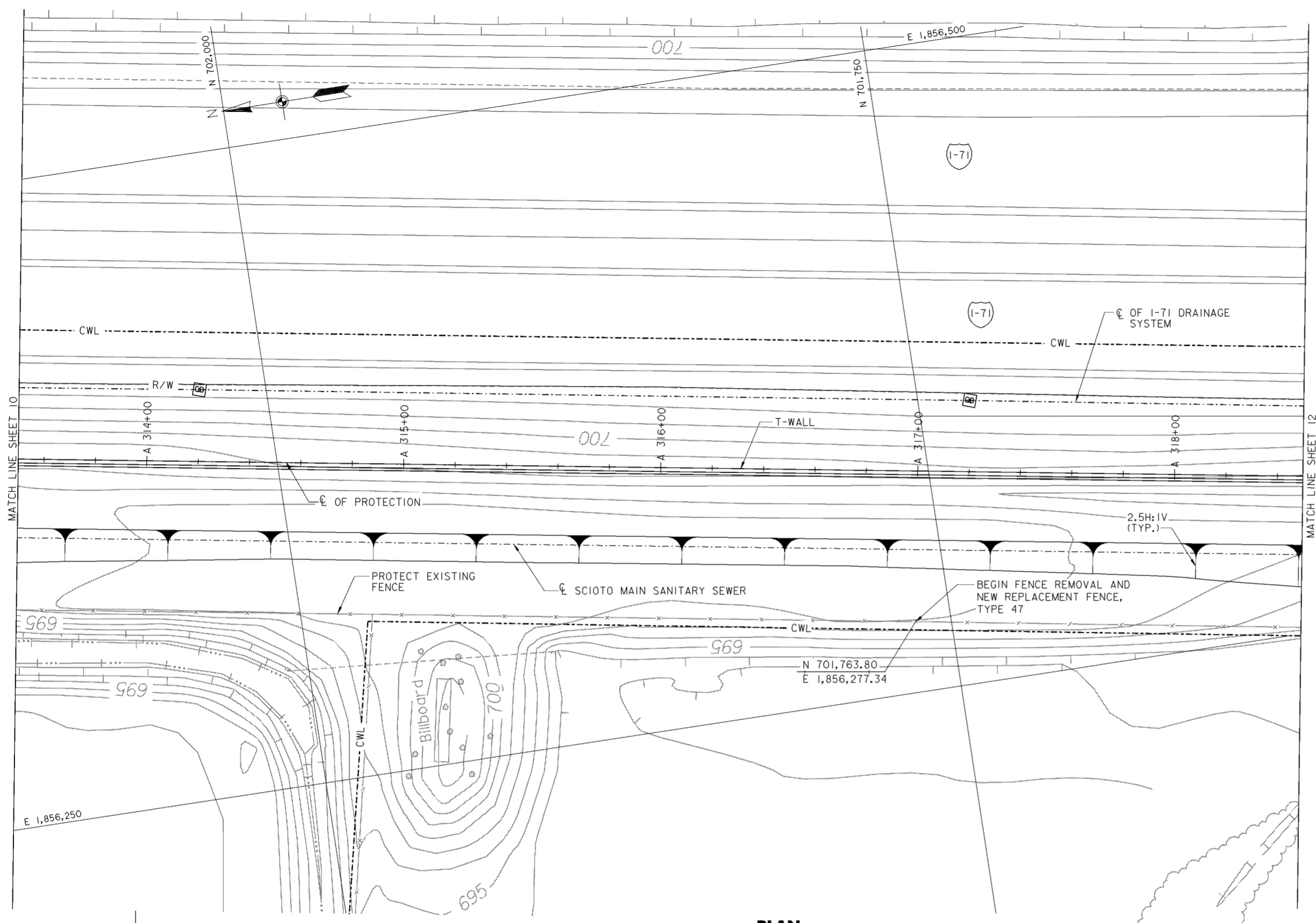
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/35 AND 16/36.
2. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
3. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
7. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
8. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/50.
9. ALL SHEET PILING BELOW FLOODWALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

Revisions			
Symbol	Descriptions	Date	Approved

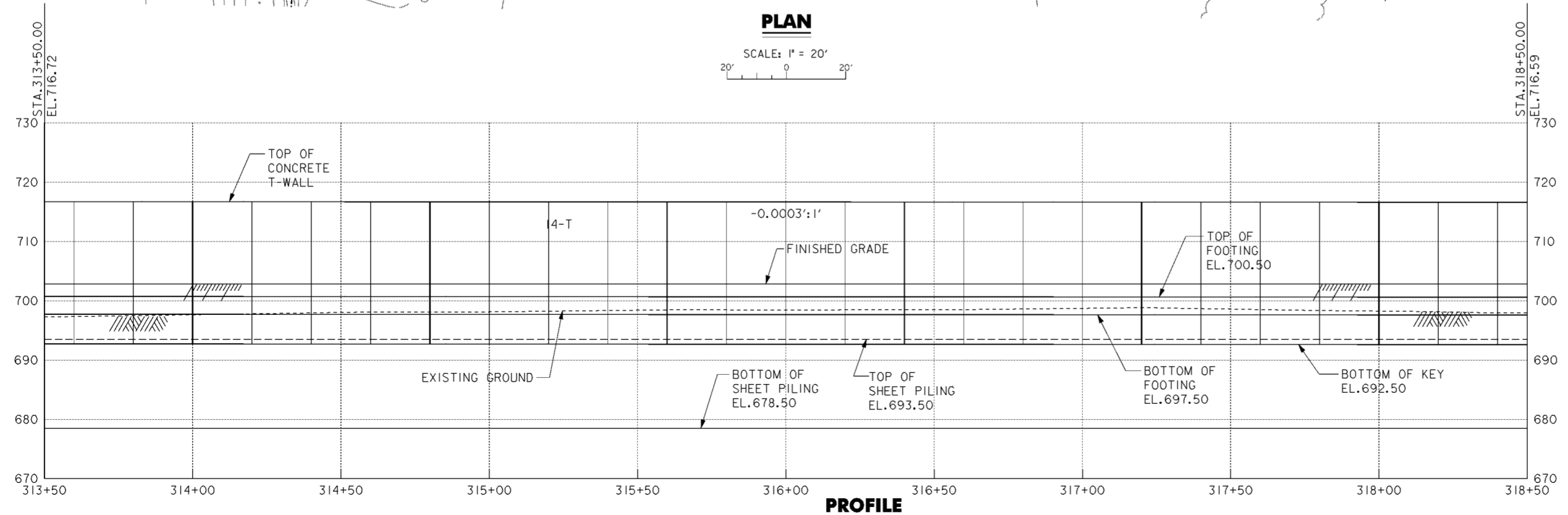
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>PLAN AND PROFILE</b> <b>308 + 50 TO 313 + 50</b>	
Designed by: <b>J. HALL</b>	Drawn by: <b>T. MULLINS</b>	Checked by: <b>P. CONROY</b>	Reviewed by: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
FILENAME: EDDC00tpp10.dwg PEN TABLE: STD-b.tbl STD-d.tbl		Sheet reference number: <b>1610</b>	Sheet 10 of 18

**WORK AS CONSTRUCTED**



**PLAN**

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



**PROFILE**

**NOTES**

1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/36 THRU 16/38.
2. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
3. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
7. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
8. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/50.
9. ALL SHEET PILING BELOW FLOODWALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

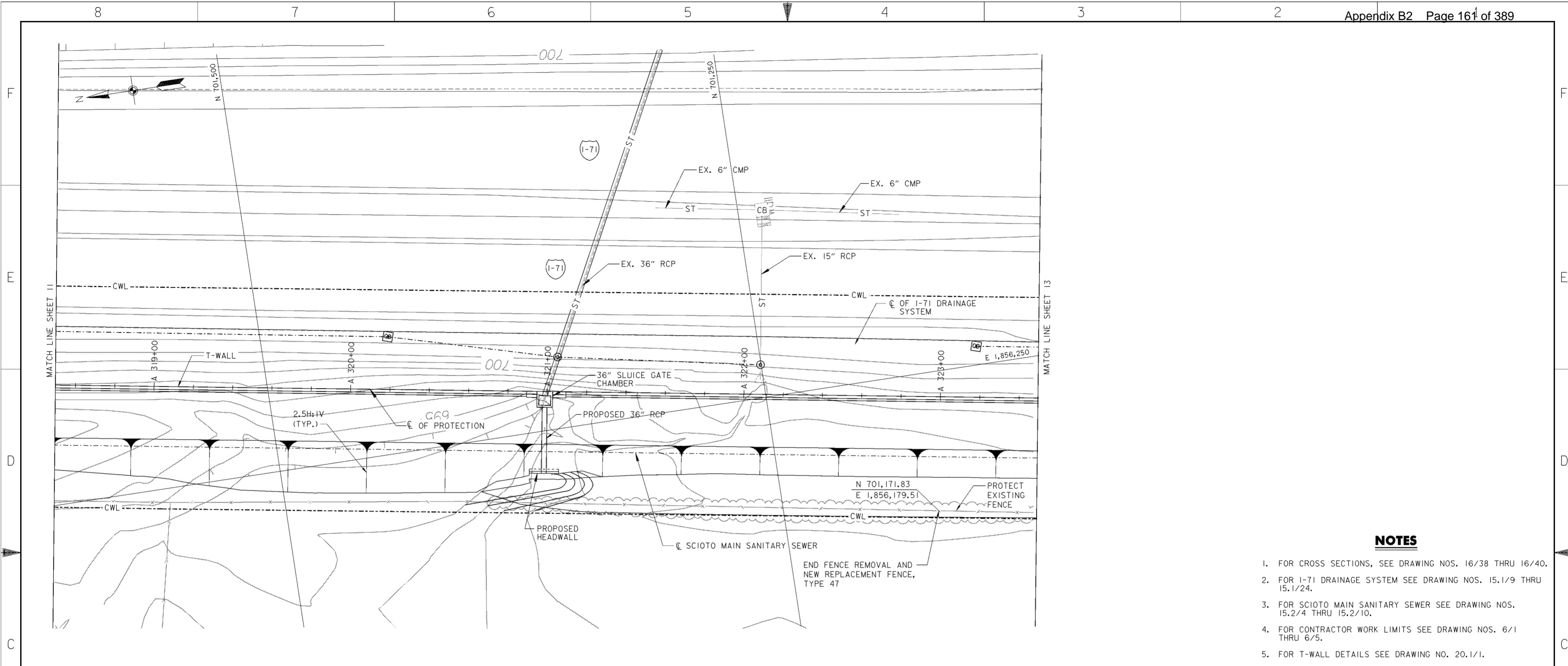
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. HALL</b>	Drawn by: <b>T. MULLINS</b>	<b>PLAN AND PROFILE</b> <b>313 + 50 TO 318 + 50</b>	
Checked by: <b>P. CONROY</b>	Reviewed by: <b>AS SHOWN</b>		
Approved by: _____	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>16/11</b>	FILENAME: EDDC00tpp11.dgn PIN TABLE: STD.b.plt STD.d.plt Sheet 11 of 18

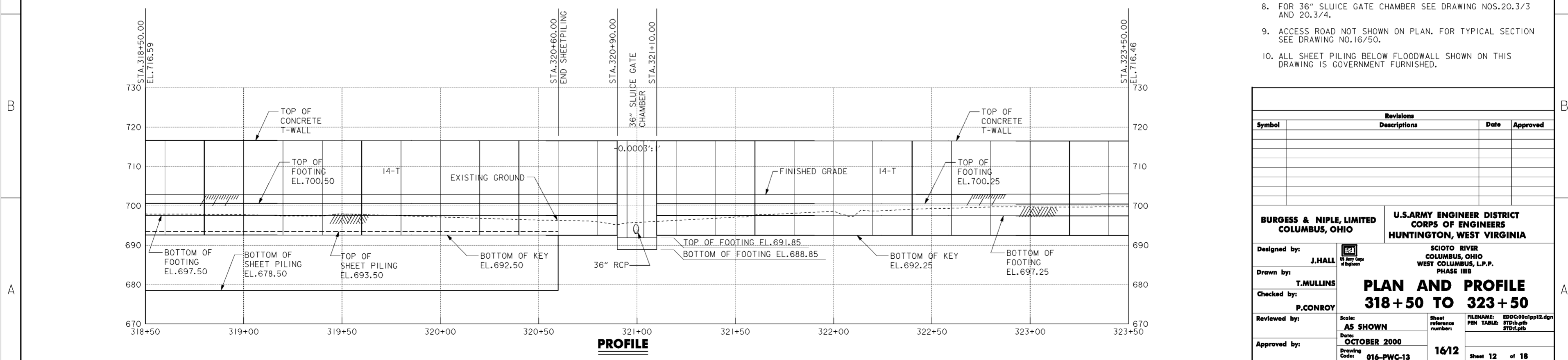
**WORK AS CONSTRUCTED**





**PLAN**

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



**PROFILE**

**NOTES**

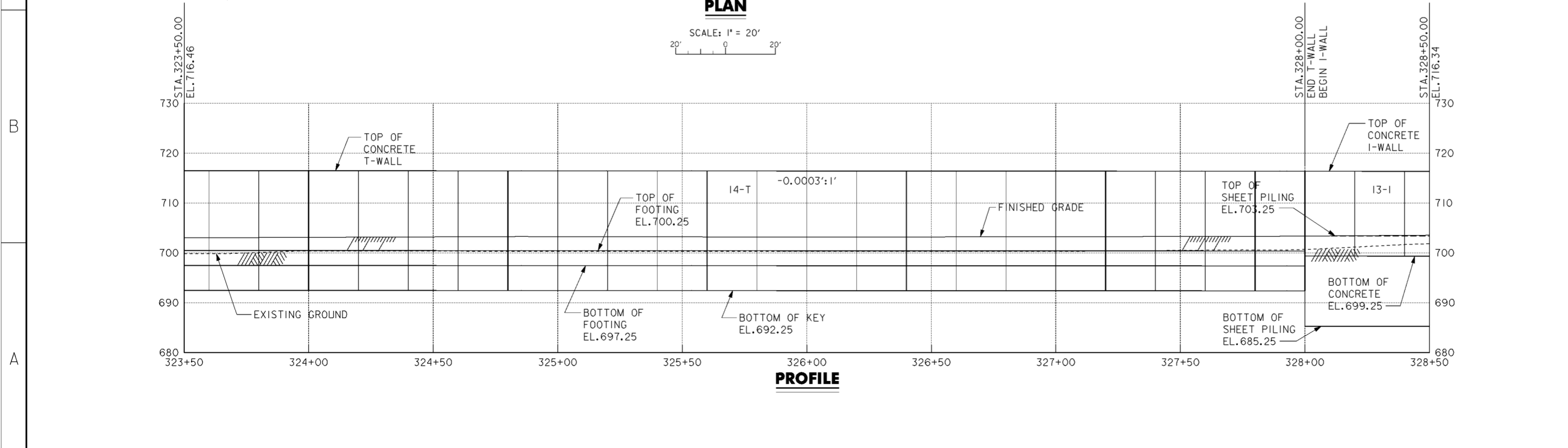
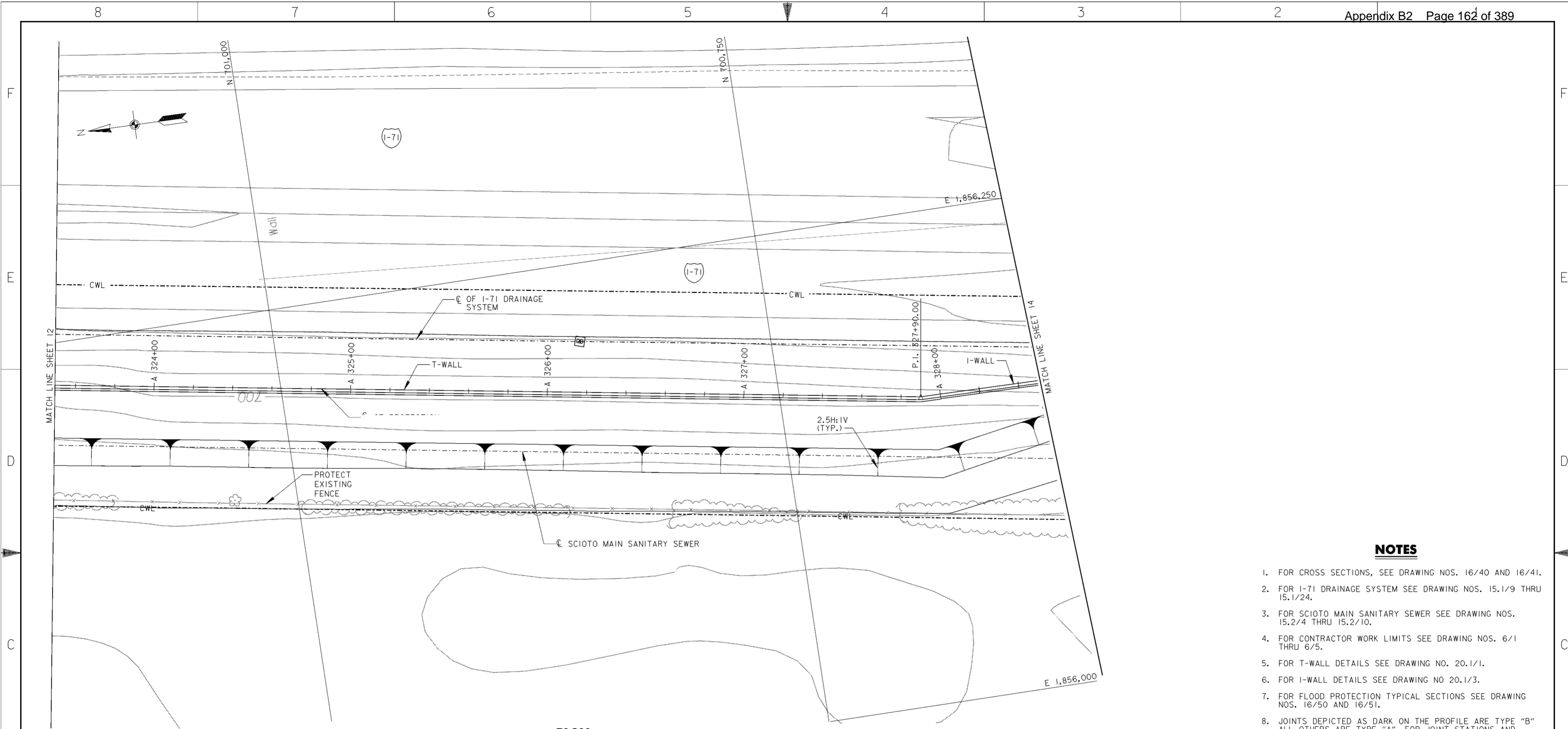
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/38 THRU 16/40.
2. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
3. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
7. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
8. FOR 36" SLUICE GATE CHAMBER SEE DRAWING NOS. 20.3/3 AND 20.3/4.
9. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/50.
10. ALL SHEET PILING BELOW FLOODWALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	J. HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>PLAN AND PROFILE</b> <b>318 + 50 TO 323 + 50</b>	
Drawn by:	T. MULLINS		
Checked by:	P. CONROY		
Reviewed by:			
Approved by:			
Scale:	AS SHOWN	Sheet reference number:	16/12
Date:	OCTOBER 2000	FILENAME:	EDDC001pp12.dgn
Drawing Code:	016-PWC-13		

**WORK AS CONSTRUCTED**



**NOTES**

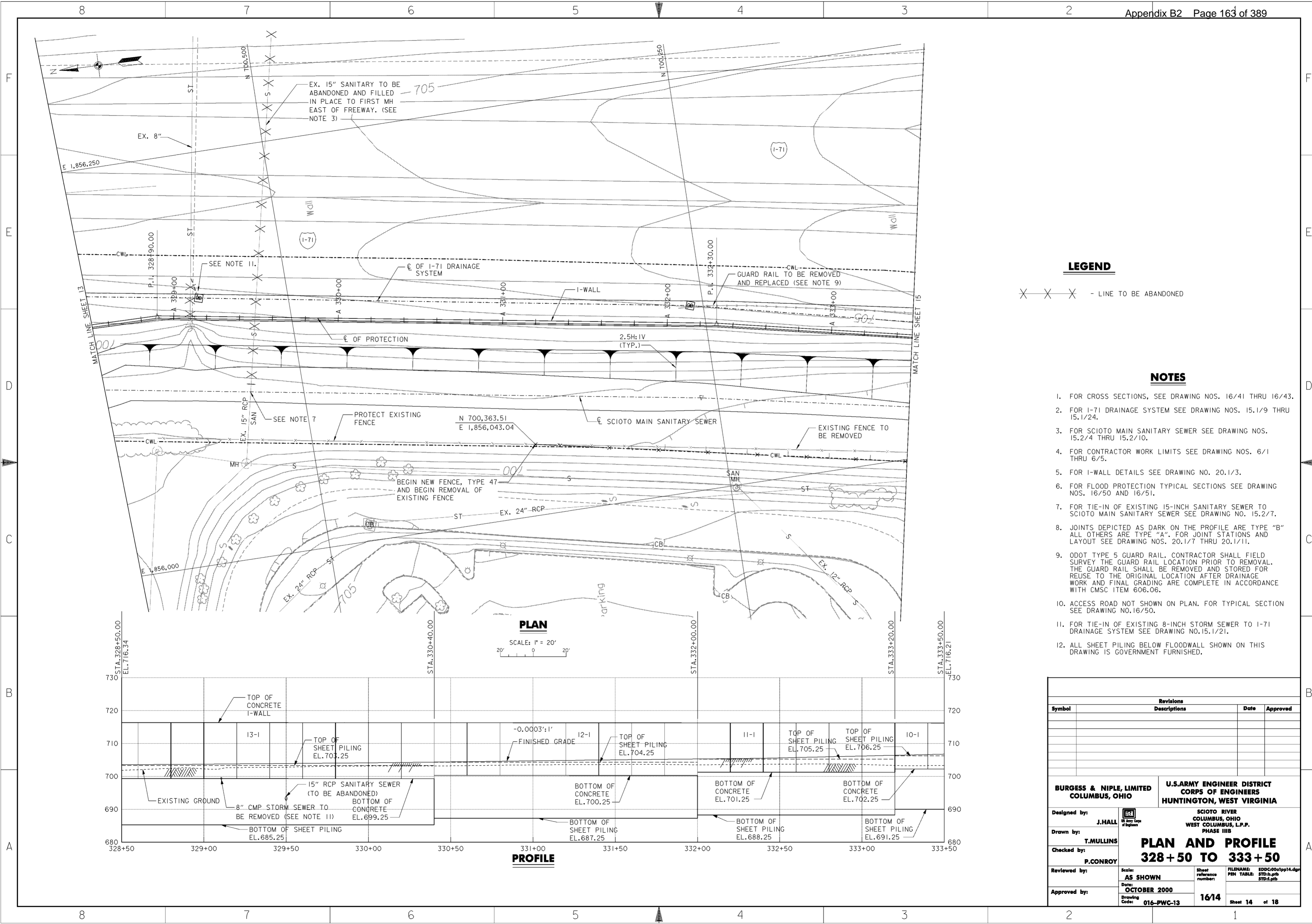
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/40 AND 16/41.
2. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
3. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
7. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
8. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
9. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/50.
10. ALL SHEET PILING BELOW FLOODWALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>PLAN AND PROFILE</b> <b>323 + 50 TO 328 + 50</b>	
Designed by: <b>J. HALL</b>	Drawn by: <b>T. MULLINS</b>	Checked by: <b>P. CONROY</b>	Reviewed by: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Sheet reference number: <b>16/13</b>		FILENAME: EDDC001pp13.dgn PIN TABLE: STD1b.plt STD1.plt Sheet 13 of 18	

**WORK AS CONSTRUCTED**



**LEGEND**

X X X - LINE TO BE ABANDONED

**NOTES**

1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/41 THRU 16/43.
2. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
3. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
6. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
7. FOR TIE-IN OF EXISTING 15-INCH SANITARY SEWER TO SCIOTO MAIN SANITARY SEWER SEE DRAWING NO. 15.2/7.
8. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
9. ODOT TYPE 5 GUARD RAIL. CONTRACTOR SHALL FIELD SURVEY THE GUARD RAIL LOCATION PRIOR TO REMOVAL. THE GUARD RAIL SHALL BE REMOVED AND STORED FOR REUSE TO THE ORIGINAL LOCATION AFTER DRAINAGE WORK AND FINAL GRADING ARE COMPLETE IN ACCORDANCE WITH CMSC ITEM 606.06.
10. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/50.
11. FOR TIE-IN OF EXISTING 8-INCH STORM SEWER TO I-71 DRAINAGE SYSTEM SEE DRAWING NO. 15.1/21.
12. ALL SHEET PILING BELOW FLOODWALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

**PLAN**

SCALE: 1" = 20'

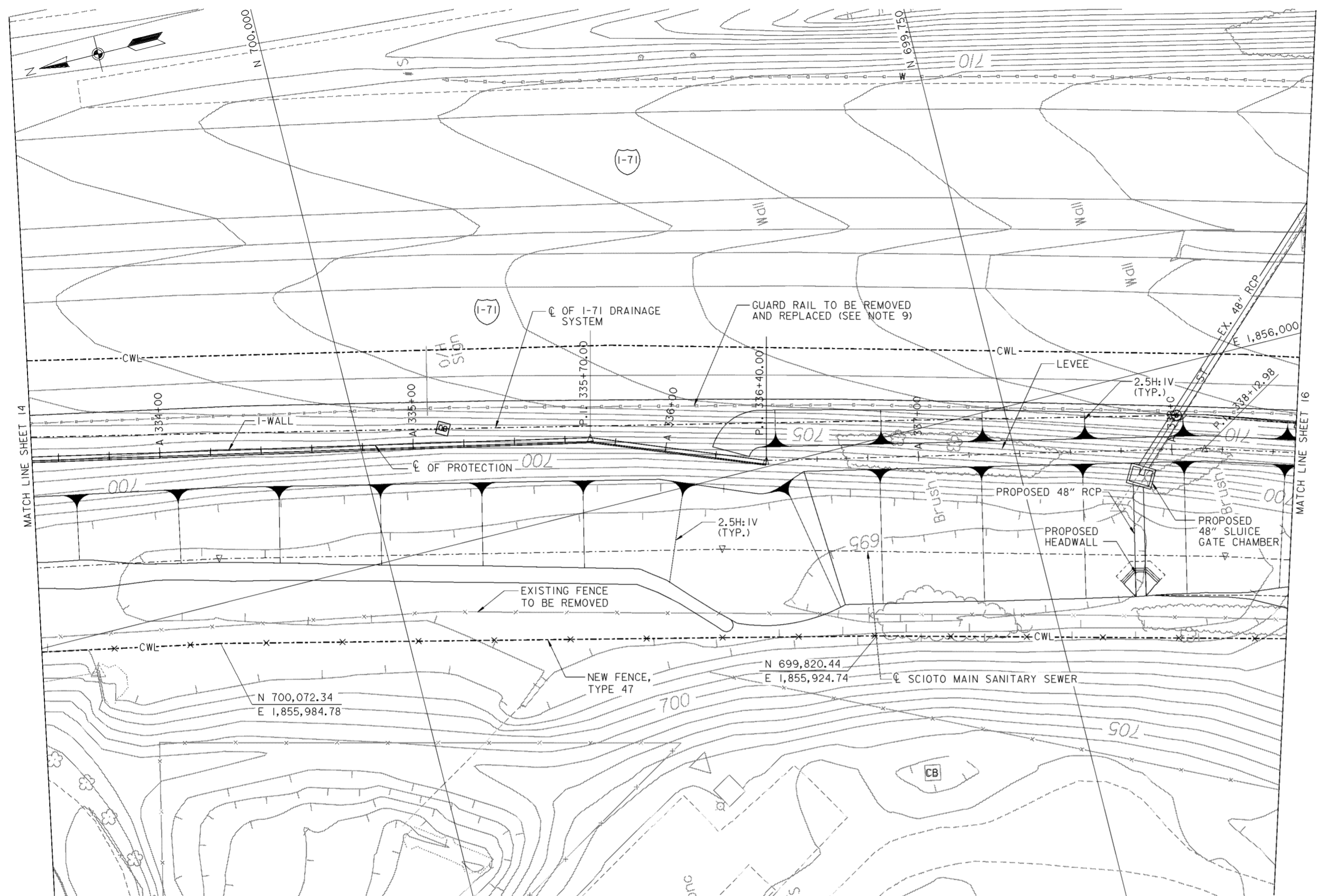
**PROFILE**

Revisions			
Symbol	Descriptions	Date	Approved

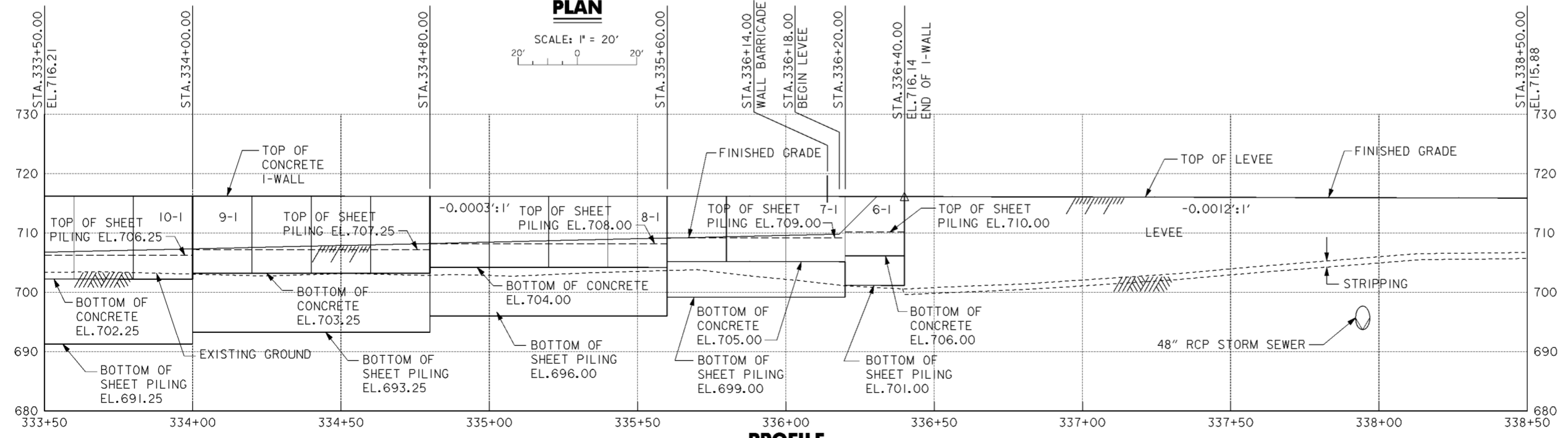
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	J. HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by:	T. MULLINS	<b>PLAN AND PROFILE</b> <b>328 + 50 TO 333 + 50</b>	
Checked by:	P. CONROY		
Reviewed by:	AS SHOWN	Sheet reference number:	16/14
Approved by:	OCTOBER 2000	FILENAME:	EDDC00tpp14.dwg
	Drawing Code: 016-PWC-13	PIN TABLE:	STD.b.plt
		STD.d.plt	
			Sheet 14 of 18

WORK AS CONSTRUCTED



**PLAN**

SCALE: 1" = 20'



**PROFILE**

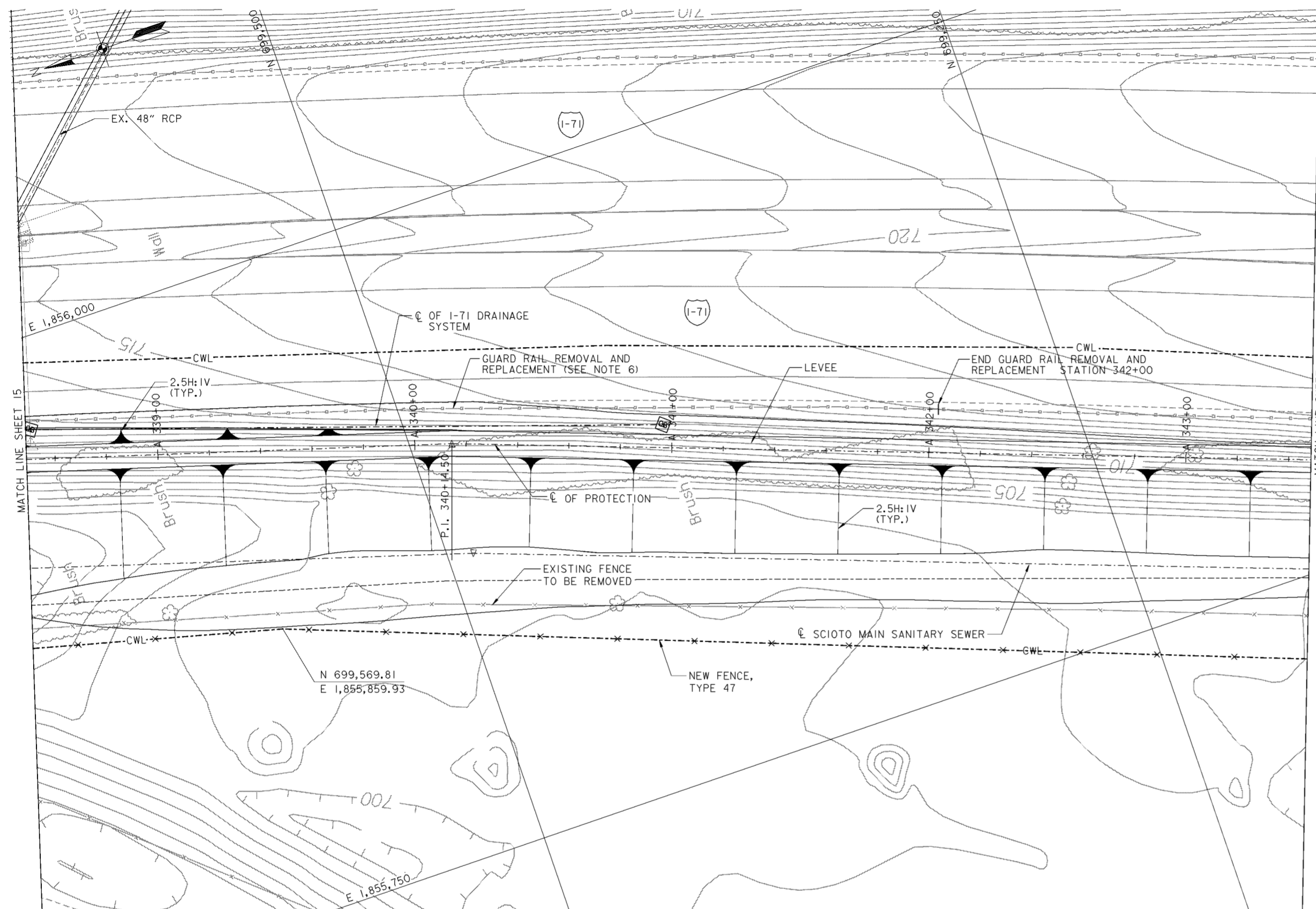
**NOTES**

1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/43 THRU 16/45.
2. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
3. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
6. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 16/51.
7. JOINTS DEPICTED AS DARK ON THE PROFILE ARE TYPE "B" ALL OTHERS ARE TYPE "A". FOR JOINT STATIONS AND LAYOUT SEE DRAWING NOS. 20.1/7 THRU 20.1/11.
8. FOR 48" SLUICE GATE CHAMBER SEE DRAWING NO.20.3/2.
9. ODOT TYPE 5 GUARD RAIL. CONTRACTOR SHALL FIELD SURVEY THE GUARD RAIL LOCATION PRIOR TO REMOVAL. THE GUARD RAIL SHALL BE REMOVED AND STORED FOR REUSE TO THE ORIGINAL LOCATION AFTER DRAINAGE WORK AND FINAL GRADING ARE COMPLETE IN ACCORDANCE WITH CMSC ITEM 606.06.
10. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NOS.16/50 AND 16/51.
11. ALL SHEET PILING BELOW FLOODWALL SHOWN ON THIS DRAWING IS GOVERNMENT FURNISHED.

Revisions			
Symbol	Descriptions	Date	Approved

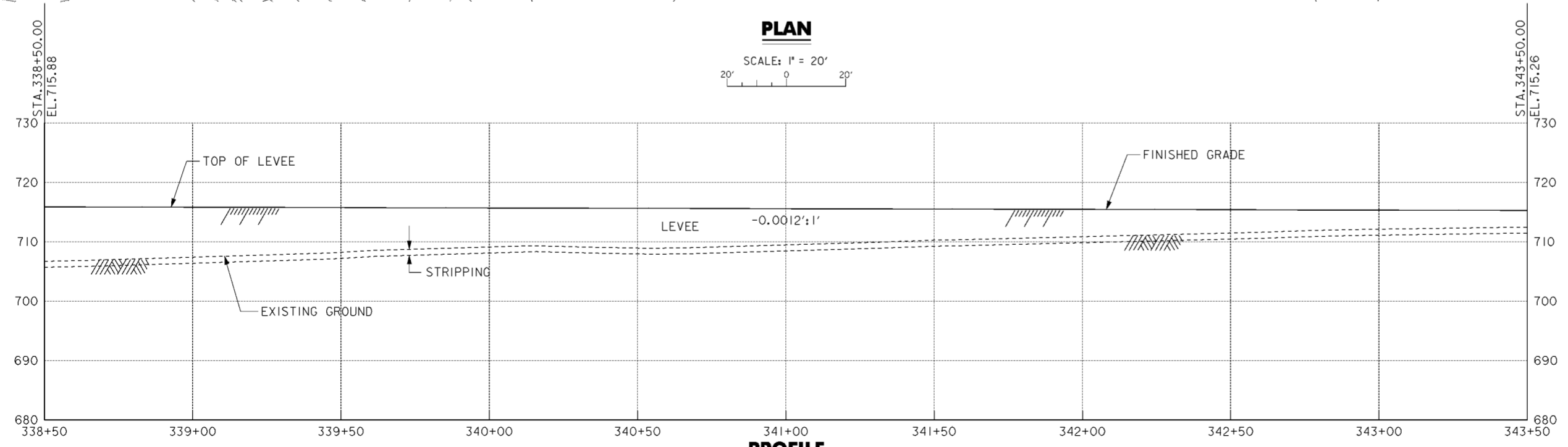
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>PLAN AND PROFILE</b> <b>333 + 50 TO 338 + 50</b>	
Designed by: <b>J. HALL</b>	Drawn by: <b>T. MULLINS</b>	Checked by: <b>P. CONROY</b>	Reviewed by: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Sheet reference number: <b>1615</b>		FILENAME: EDDC00tpp19.dwg PIN TABLE: STD-b.tbl STD-d.tbl Sheet 15 of 18	



**PLAN**

SCALE: 1" = 20'



**PROFILE**

**NOTES**

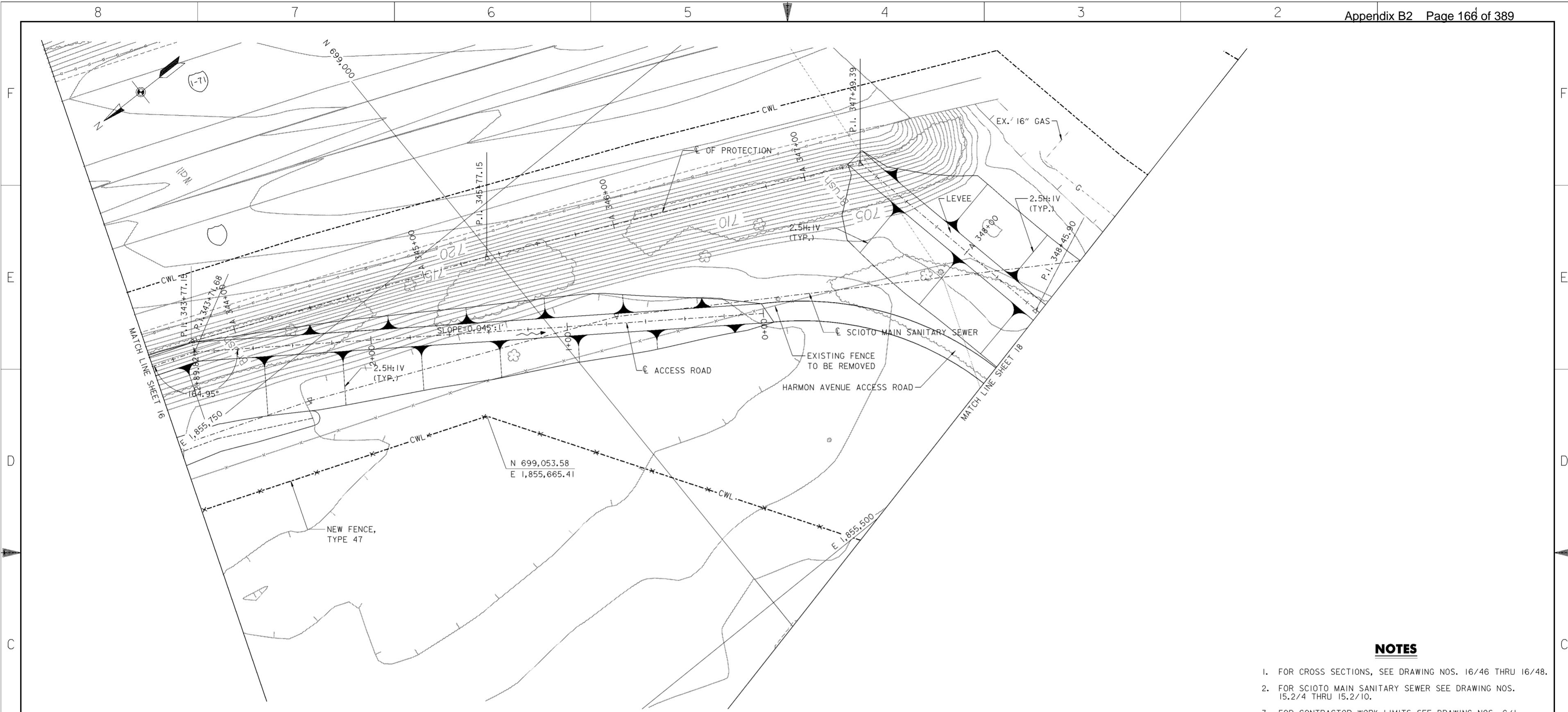
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/45 AND 16/46.
2. FOR I-71 DRAINAGE SYSTEM SEE DRAWING NOS. 15.1/9 THRU 15.1/24.
3. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 16/51.
6. ODOT TYPE 5 GUARD RAIL. CONTRACTOR SHALL FIELD SURVEY THE GUARD RAIL LOCATION PRIOR TO REMOVAL. THE GUARD RAIL SHALL BE REMOVED AND STORED FOR REUSE TO THE ORIGINAL LOCATION AFTER DRAINAGE WORK AND FINAL GRADING ARE COMPLETE IN ACCORDANCE WITH CMSC ITEM 606.06.
7. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO.16/51.

Revisions			
Symbol	Descriptions	Date	Approved

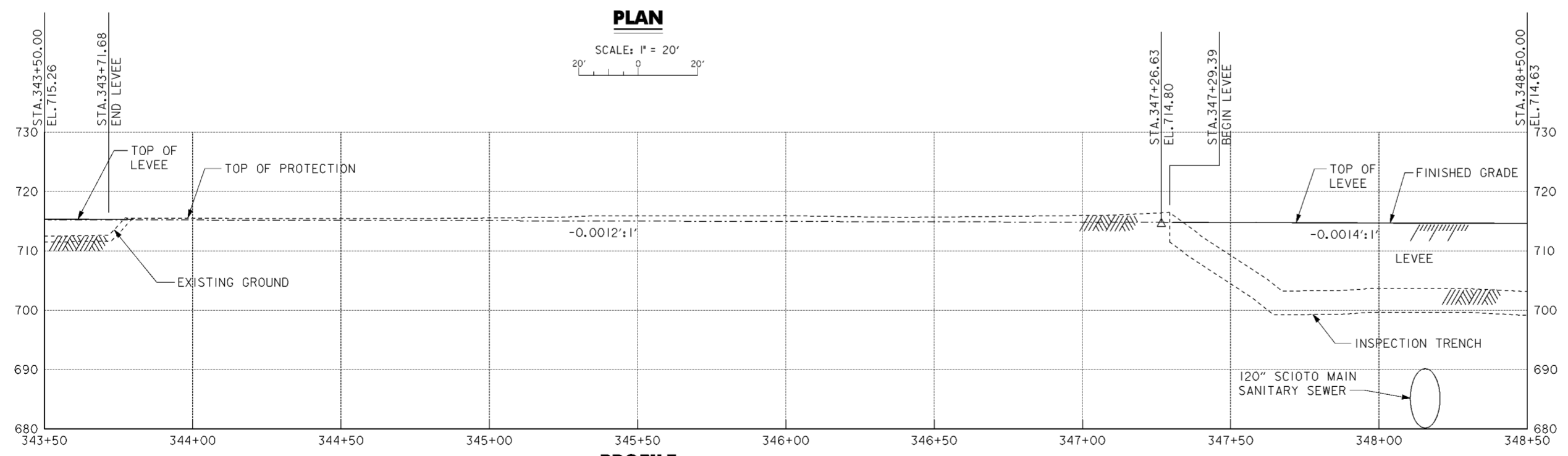
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. HALL</b>	<b>PLAN AND PROFILE</b> <b>338 + 50 TO 343 + 50</b>		
Drawn by: <b>T. MULLINS</b>	Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/16</b>
Reviewed by: _____	Date: <b>OCTOBER 2000</b>	FILENAME: EDDC:00tpp16.dgn	PIN TABLE: STD:16.tbl STD:16.tbl
Approved by: _____	Drawing Code: <b>016-PWC-13</b>	Sheet 16 of 18	Sheet 16 of 18

**WORK AS CONSTRUCTED**



**PLAN**

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



**PROFILE**

**NOTES**

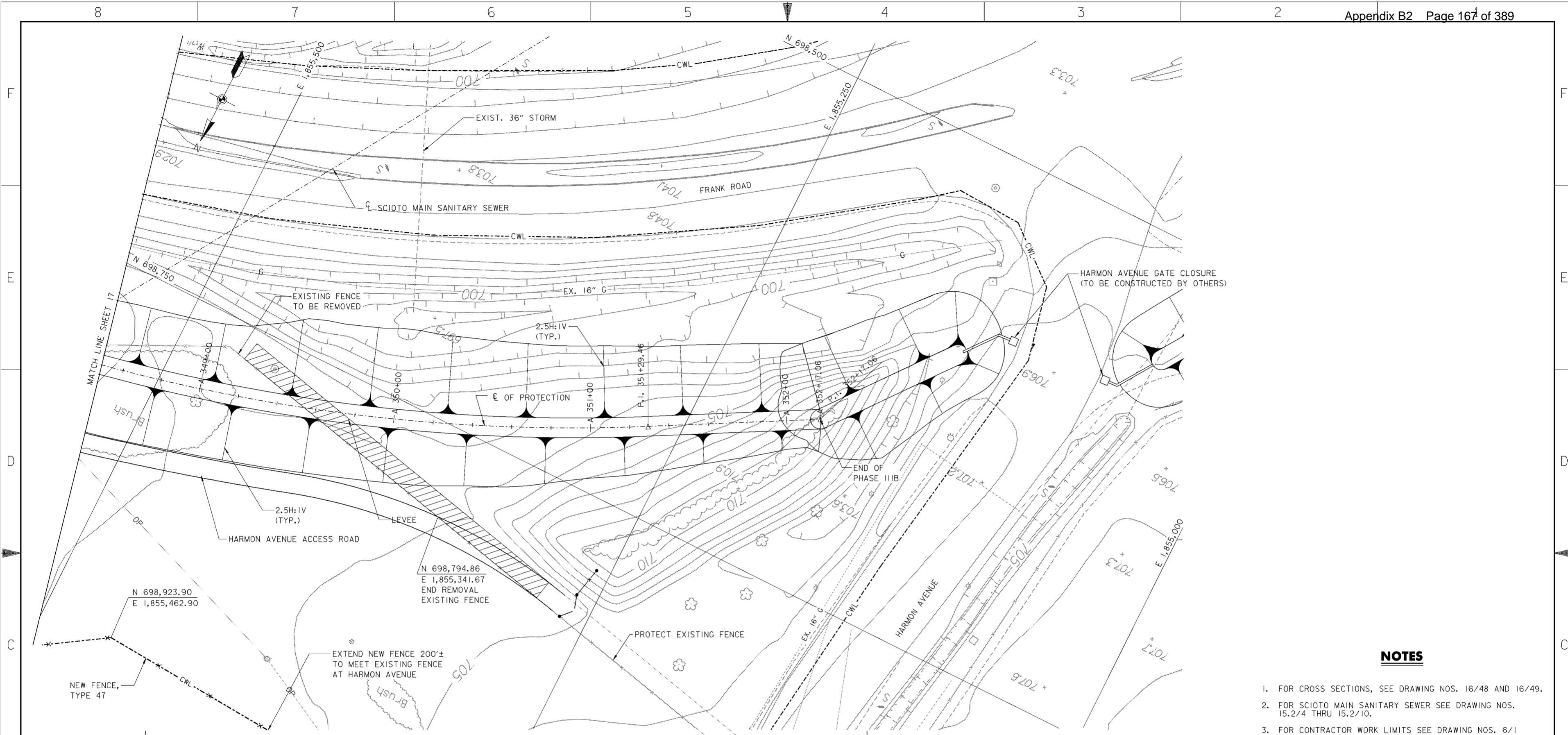
1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/46 THRU 16/48.
2. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 16/51.
5. FOR HARMON AVENUE ACCESS ROAD SEE DRAWING NO. 16/52.
6. ACCESS ROAD NOT SHOWN ON PLAN. FOR TYPICAL SECTION SEE DRAWING NO. 16/51.

Revisions			
Symbol	Descriptions	Date	Approved

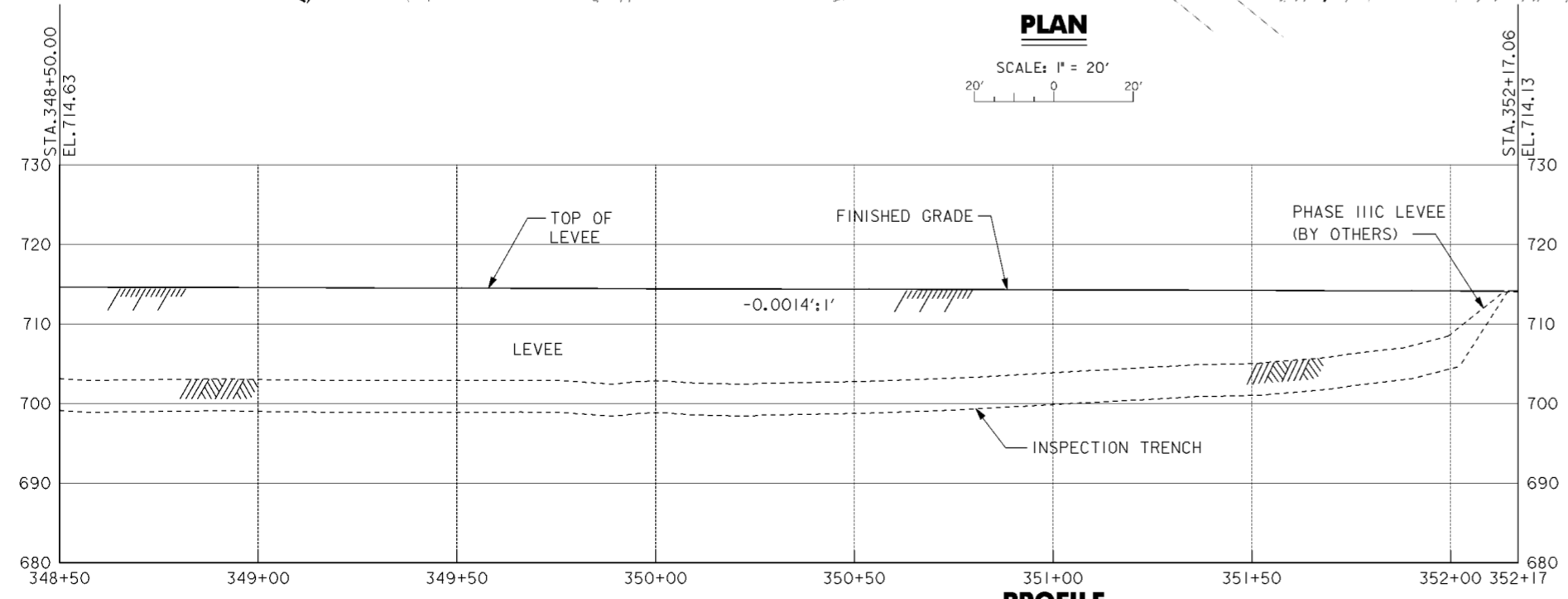
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>PLAN AND PROFILE</b> <b>343 + 50 TO 348 + 50</b>	
Designed by: <b>J. HALL</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>1617</b>	FILENAME: EDDC00tpp17.dwg PIN TABLE: STD.b.plt STD.d.plt
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>			
Reviewed by:			
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 17 of 18

**WORK AS CONSTRUCTED**



**PLAN**

SCALE: 1" = 20'



**PROFILE**

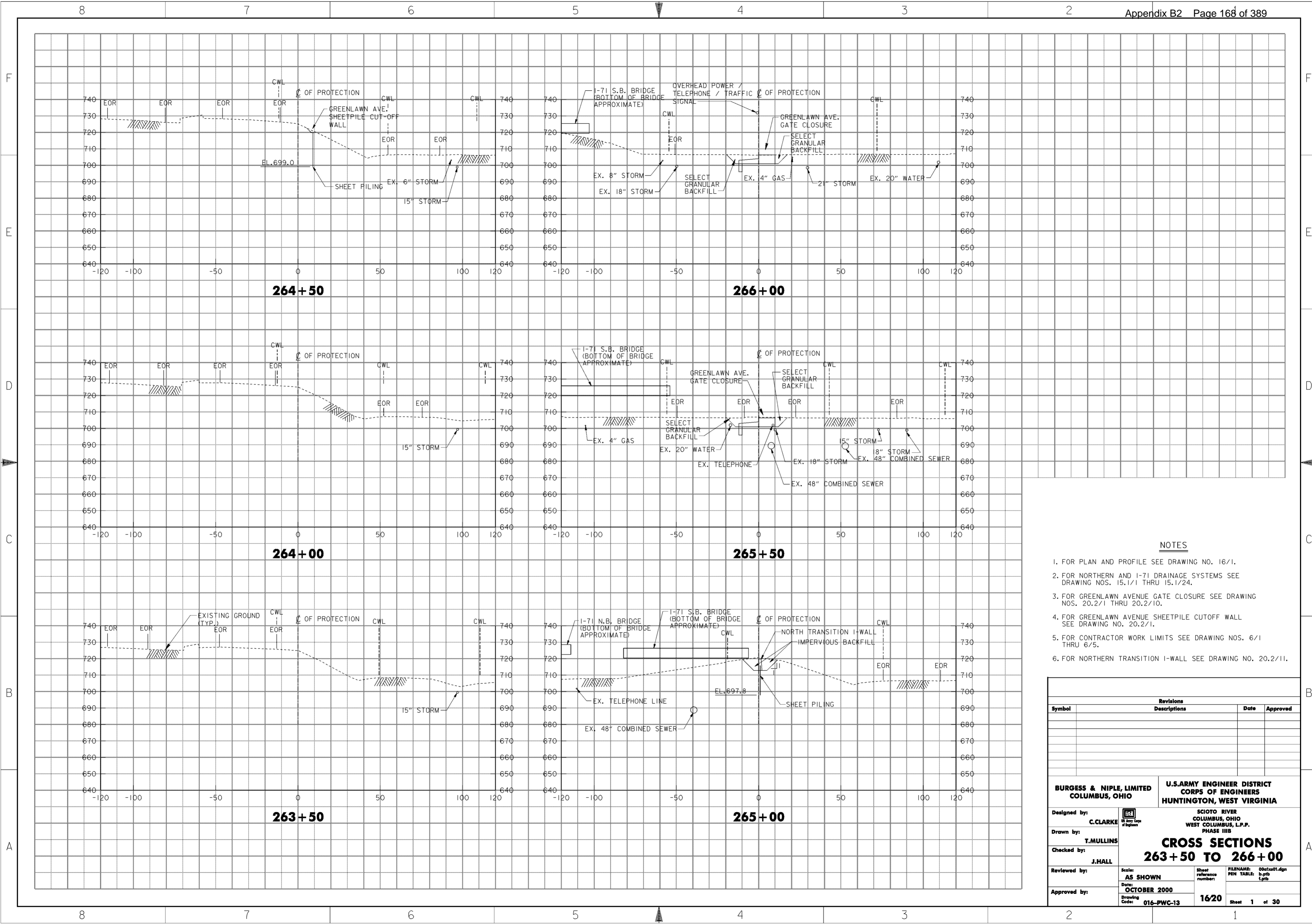
**NOTES**

1. FOR CROSS SECTIONS, SEE DRAWING NOS. 16/48 AND 16/49.
2. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR TYPICAL LEVEE SECTIONS SEE DRAWING NO. 16/51.
5. FOR HARMON AVENUE ACCESS ROAD SEE DRAWING NO. 16/52.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB	
Designed by: <b>J. HALL</b>	Drawn by: <b>T. MULLINS</b>	<h2 style="text-align: center;">PLAN AND PROFILE</h2> <h3 style="text-align: center;">348 + 50 TO 352 + 17.06</h3>	
Checked by: <b>P. CONROY</b>	Reviewed by: <b>AS SHOWN</b>		
Approved by:	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>1618</b>	FILENAME: EDDC00tpp18.dgn PEN TABLE: STD-b.plt STD-f.plt
Drawing Code: <b>016-PWC-13</b>	Sheet 18 of 18	WORK AS CONSTRUCTED	



**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/1.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR GREENLAWN AVENUE GATE CLOSURE SEE DRAWING NOS. 20.2/1 THRU 20.2/10.
4. FOR GREENLAWN AVENUE SHEETPILE CUTOFF WALL SEE DRAWING NO. 20.2/1.
5. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
6. FOR NORTHERN TRANSITION I-WALL SEE DRAWING NO. 20.2/11.

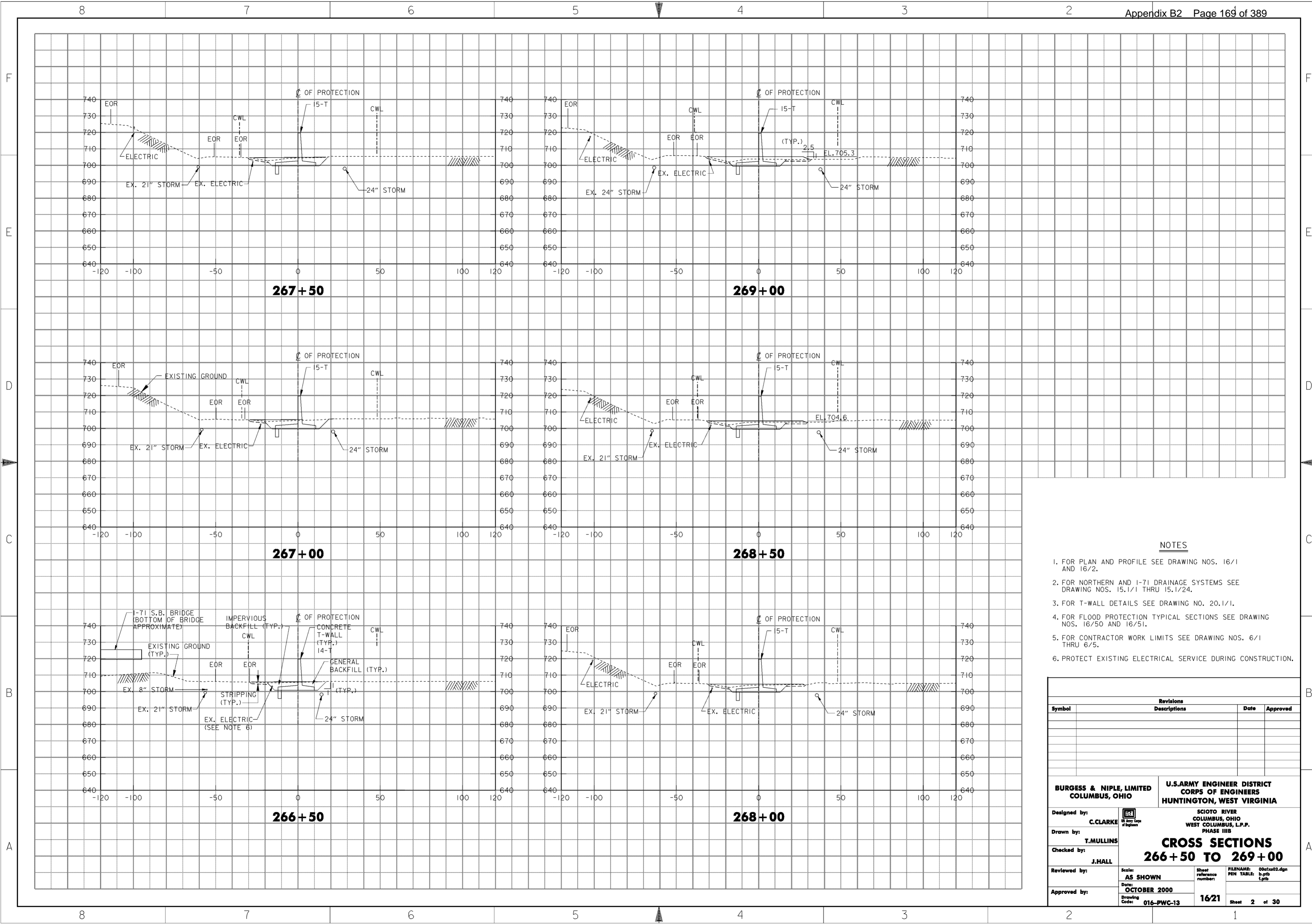
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>CROSS SECTIONS</b> <b>263+50 TO 266+00</b>	
Designed by: <b>C. CLARKE</b>		Scale: <b>AS SHOWN</b>	FILENAME: 00c12a01.dgn PEN TABLE: p.tbl L.P.B.
Drawn by: <b>T. MULLINS</b>		Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>1620</b>
Checked by: <b>J. HALL</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 30	Approved by:

**WORK AS CONSTRUCTED**





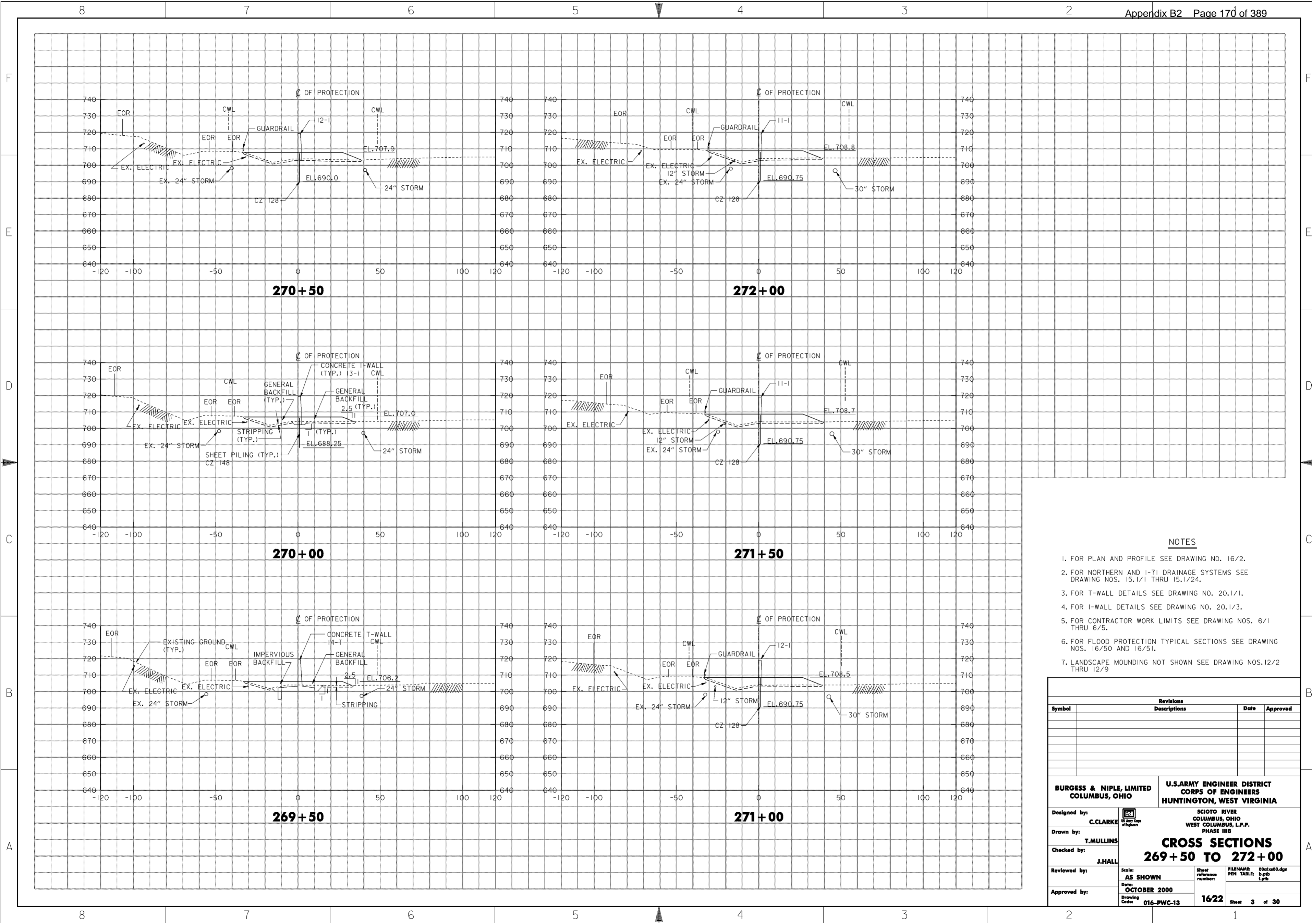
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/1 AND 16/2.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
4. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
5. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
6. PROTECT EXISTING ELECTRICAL SERVICE DURING CONSTRUCTION.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>CROSS SECTIONS</b> <b>266 + 50 TO 269 + 00</b>	
Designed by: <b>C. CLARKE</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>1621</b>
Drawn by: <b>T. MULLINS</b>		Date: <b>OCTOBER 2000</b>	FILENAME: 00c1x02.dgn
Checked by: <b>J. HALL</b>	Drawing Code: <b>016-PWC-13</b>	PEN TABLE: p.tbl l.tbl	Sheet <b>2</b> of <b>30</b>
Reviewed by:	Approved by:	WORK AS CONSTRUCTED	



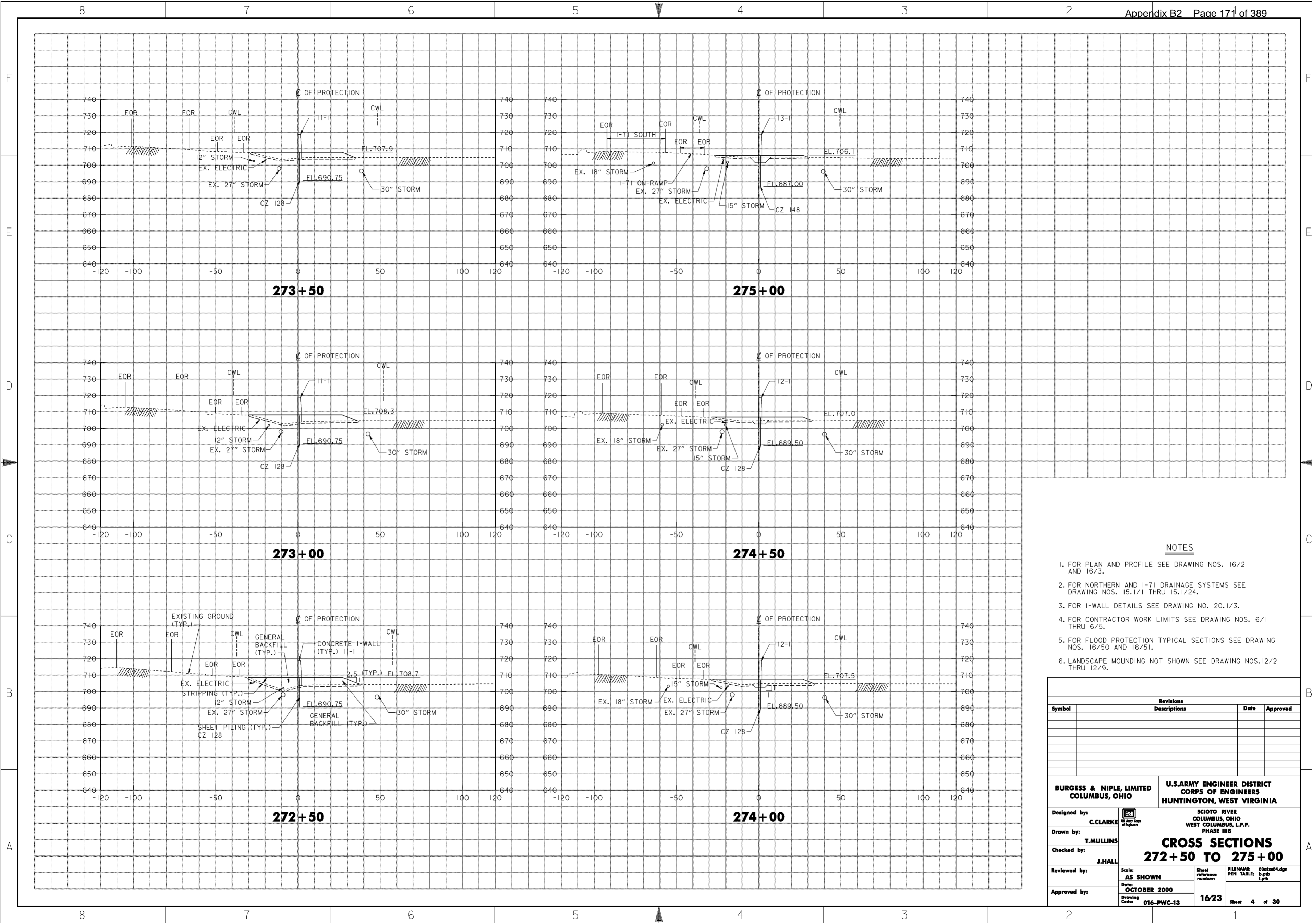
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/2.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
4. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
5. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
6. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>CROSS SECTIONS</b> <b>269+50 TO 272+00</b>	
Designed by: <b>C. CLARKE</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/22</b>
Drawn by: <b>T. MULLINS</b>		Date: <b>OCTOBER 2000</b>	FILENAME: 00c12a03.dgn
Checked by: <b>J. HALL</b>	Drawing Code: <b>016-PWC-13</b>	PEN TABLE: p.tbl l.tbl	Sheet <b>3</b> of <b>30</b>
Reviewed by:	Approved by:	16/22	3 of 30



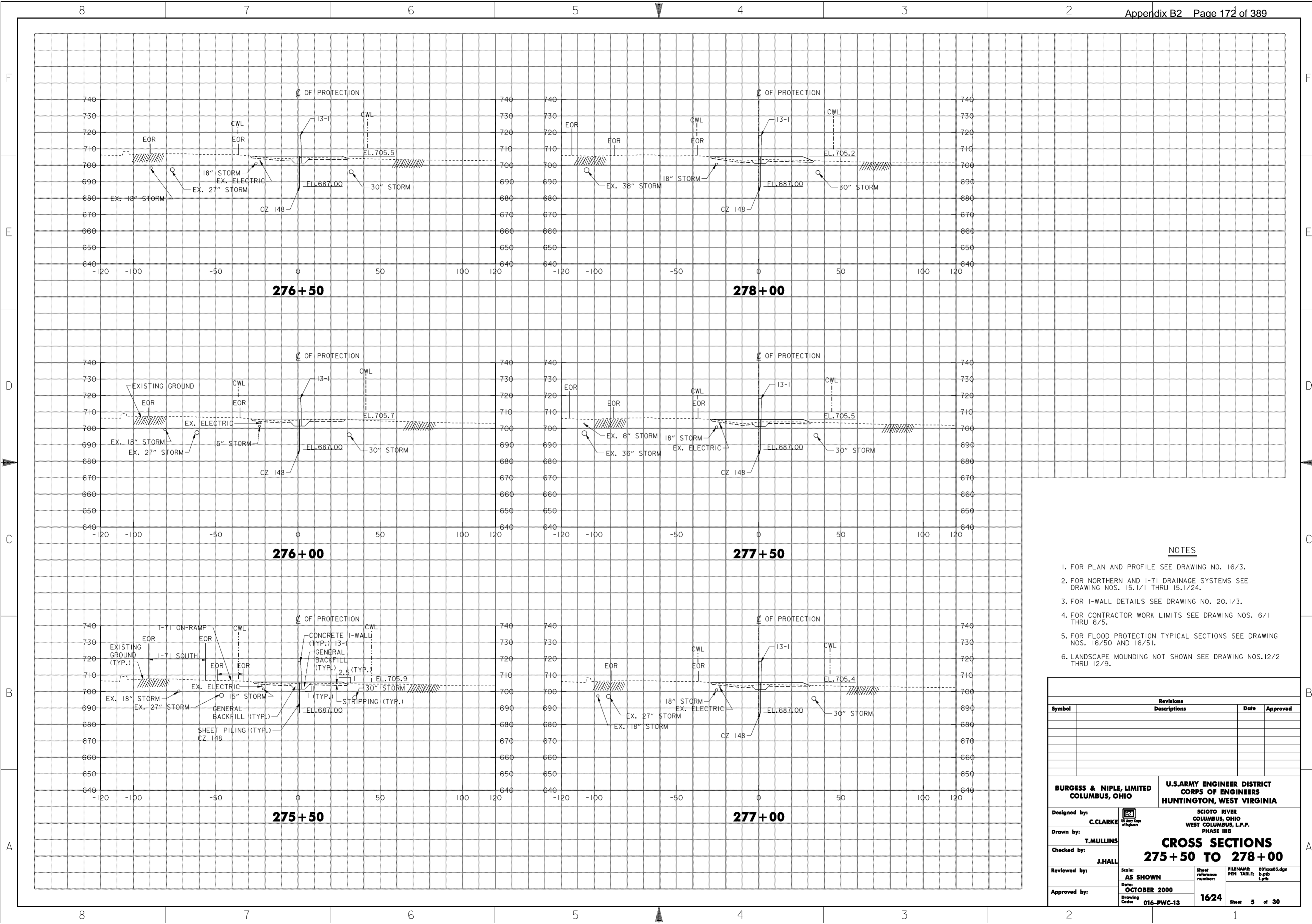
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/2 AND 16/3.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
6. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>CROSS SECTIONS</b> <b>272+50 TO 275+00</b>	
Designed by: <b>C. CLARKE</b>		Drawn by: <b>T. MULLINS</b>	FILENAME: 00c12a04.dgn PEN TABLE: b.tbl 1.plt
Checked by: <b>J. HALL</b>		Reviewed by: AS SHOWN Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	
Approved by:	Approved by:	Approved by:	Approved by:



**NOTES**

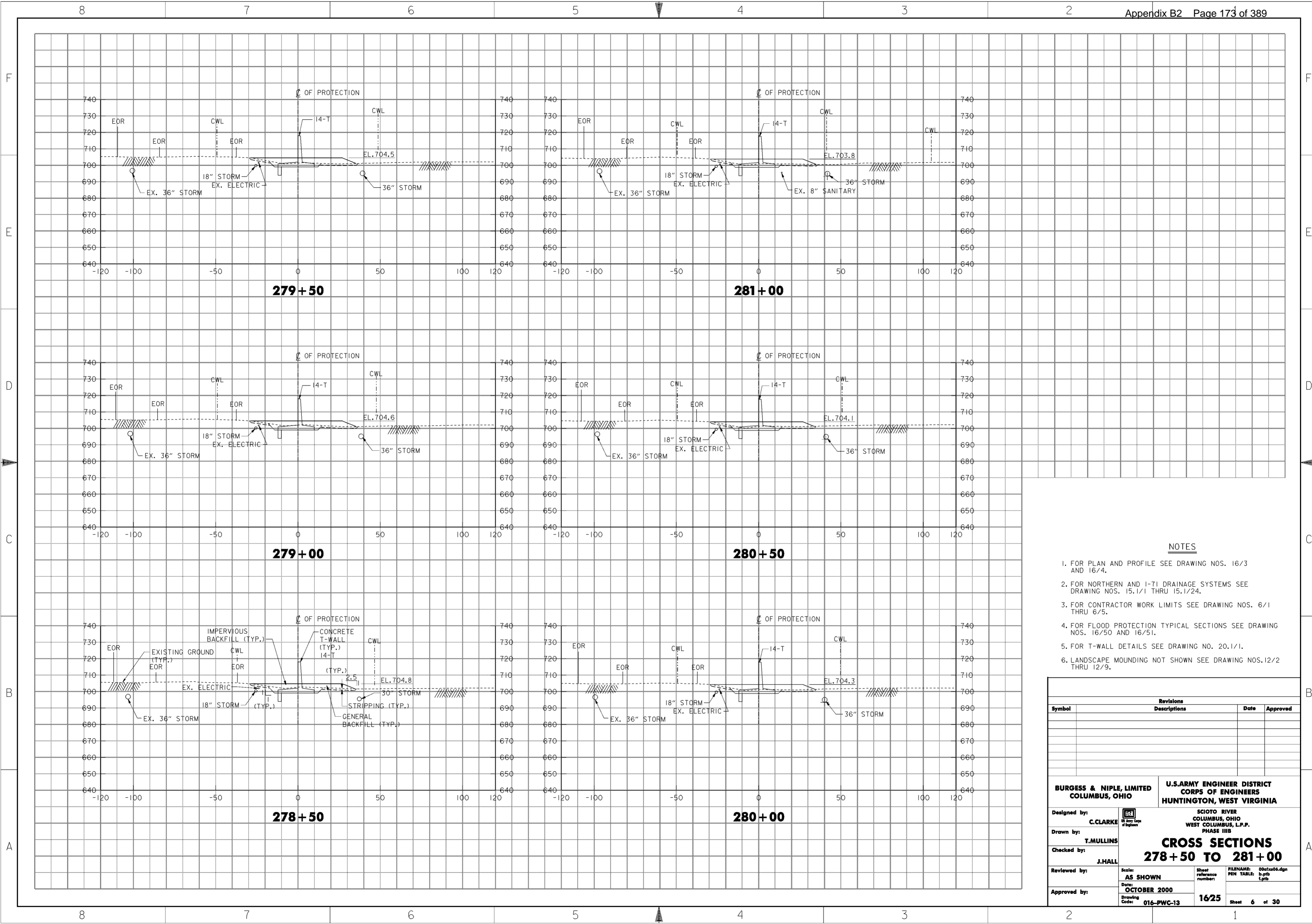
1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/3.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
4. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
5. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
6. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: <b>AS SHOWN</b></p> <p>Approved by: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p>SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p><b>CROSS SECTIONS</b> <b>275 + 50 TO 278 + 00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p> <p>Sheet reference number: <b>1624</b></p> <p>FILENAME: 001cxs05.dgn PEN TABLE: p.tbl 1.plt</p> <p>Sheet <b>5</b> of <b>30</b></p>
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**WORK AS CONSTRUCTED**



**NOTES**

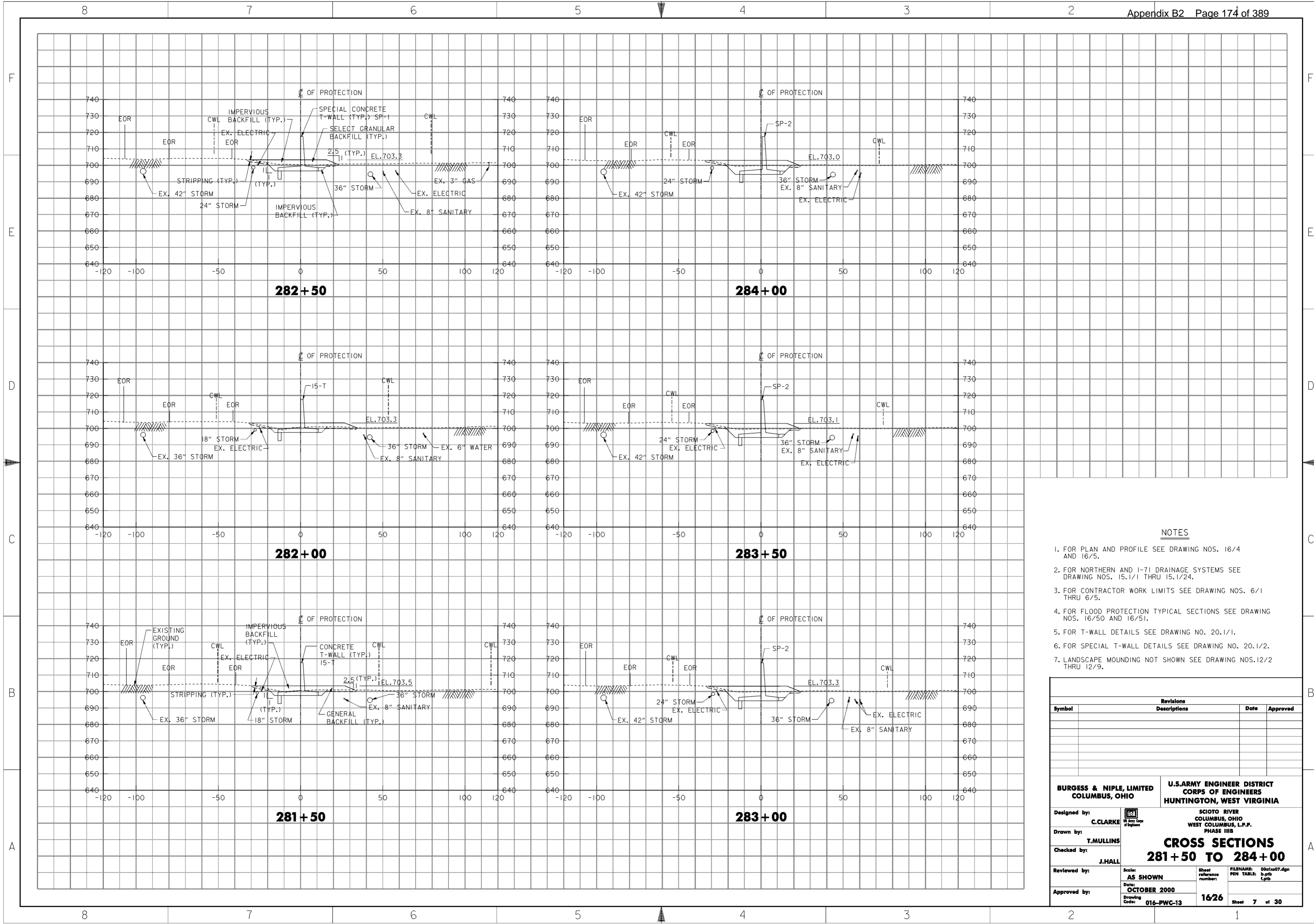
1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/3 AND 16/4.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: _____</p> <p>Approved by: _____</p>	<p><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p>SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p><b>CROSS SECTIONS</b> <b>278 + 50 TO 281 + 00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p> <p>Sheet reference number: <b>1625</b></p> <p>FILENAME: 00c12a06.dgn PEN TABLE: b.tbl 1.plt</p> <p>Sheet <b>6</b> of <b>30</b></p>
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**WORK AS CONSTRUCTED**



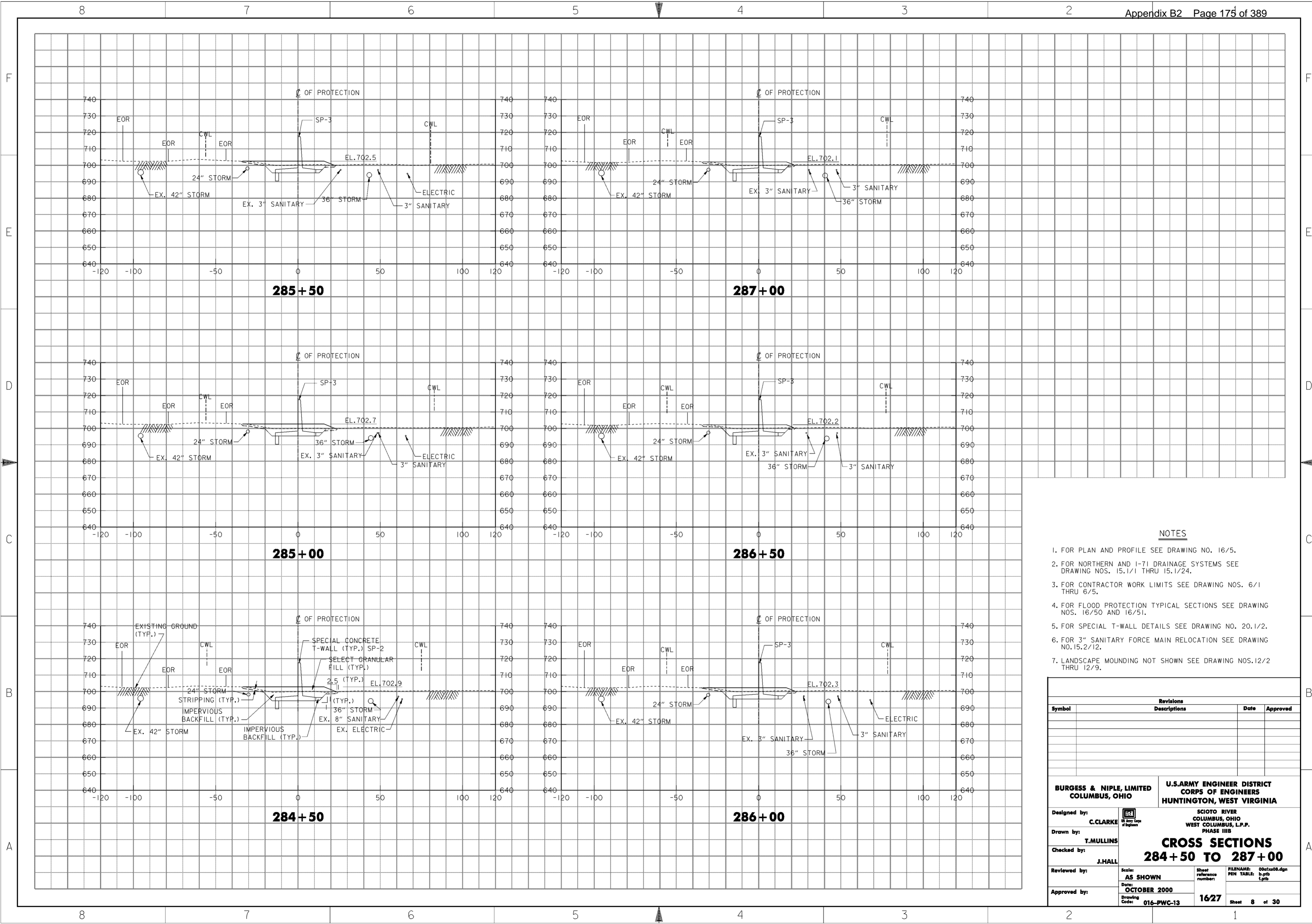
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/4 AND 16/5.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. FOR SPECIAL T-WALL DETAILS SEE DRAWING NO. 20.1/2.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
		SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>C. CLARKE</b>	<b>CROSS SECTIONS</b> <b>281 + 50 TO 284 + 00</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>J. HALL</b>			
Reviewed by: AS SHOWN			
Approved by:	Date: <b>OCTOBER 2000</b>	Sheet reference number: <b>1626</b>	FILENAME: 00c1x07.dgn PEN TABLE: b.plt 1.plt
Drawing Code: <b>016-PWC-13</b>	Sheet <b>7</b> of <b>30</b>		



**NOTES**

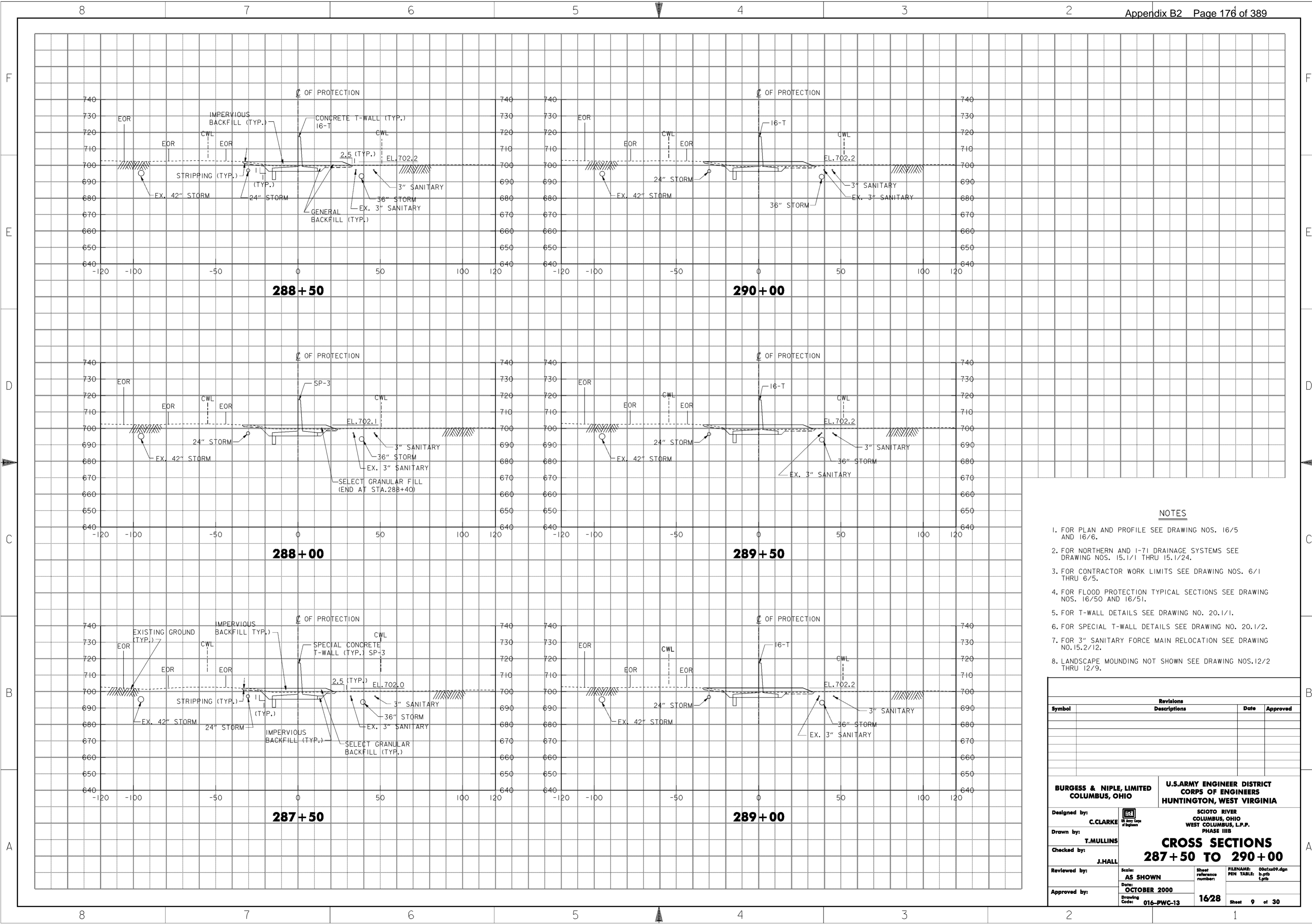
1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/5.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
5. FOR SPECIAL T-WALL DETAILS SEE DRAWING NO. 20.1/2.
6. FOR 3" SANITARY FORCE MAIN RELOCATION SEE DRAWING NO. 15.2/12.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: <b>AS SHOWN</b></p> <p>Approved by: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p style="text-align: center;"><b>U.S. ARMY ENGINEER DISTRICT</b> COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p style="text-align: center;"><b>SCIOTO RIVER</b> COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p style="text-align: center;"><b>CROSS SECTIONS</b> <b>284 + 50 TO 287 + 00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p> <p>Sheet reference number: <b>1627</b></p> <p>FILENAME: 00c12a08.dgn PEN TABLE: p.tbl 1.plt</p> <p style="text-align: right;">Sheet <b>8</b> of <b>30</b></p>
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**WORK AS CONSTRUCTED**



**NOTES**

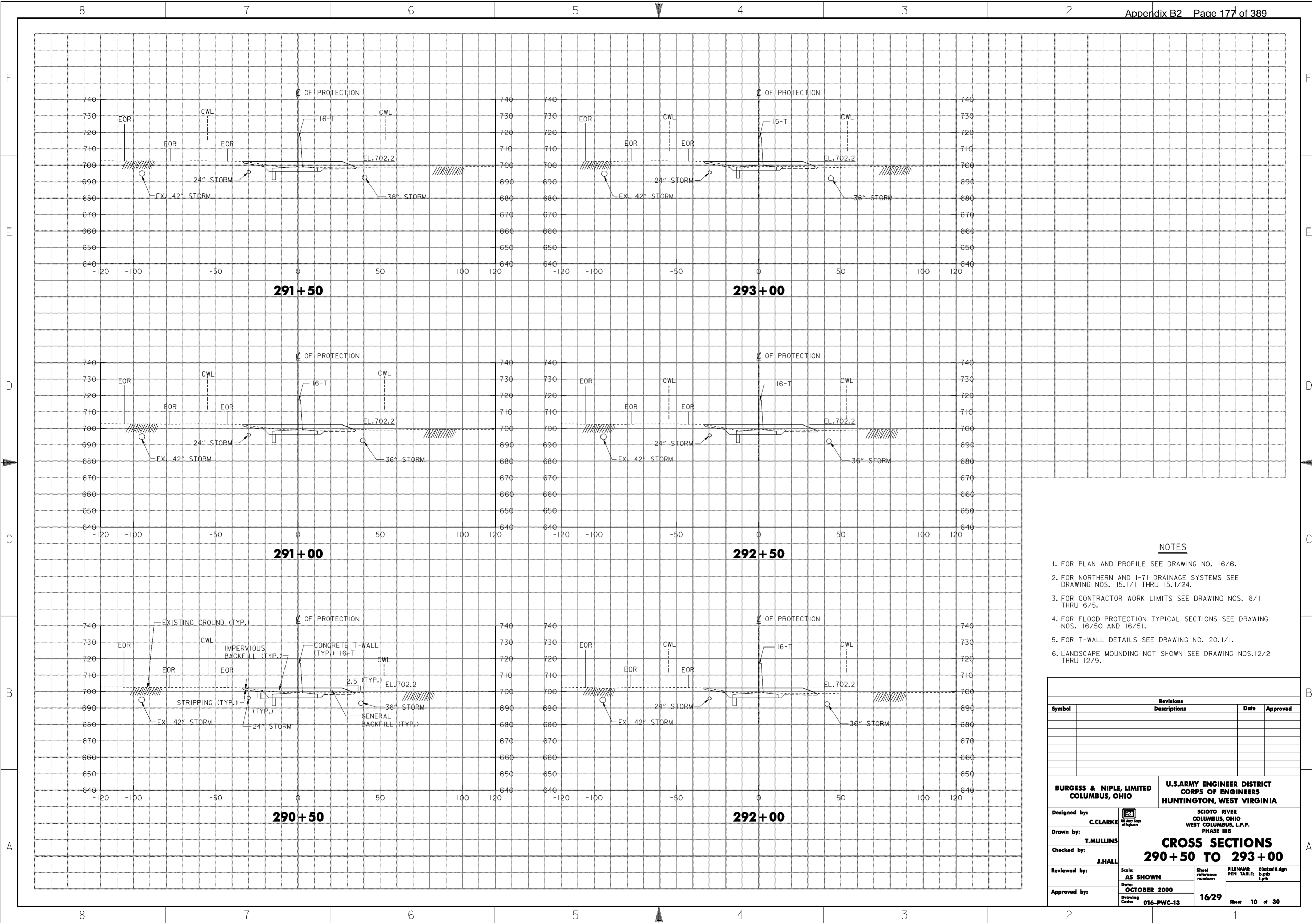
1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/5 AND 16/6.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. FOR SPECIAL T-WALL DETAILS SEE DRAWING NO. 20.1/2.
7. FOR 3" SANITARY FORCE MAIN RELOCATION SEE DRAWING NO. 15.2/12.
8. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT COLUMBUS, OHIO	SCIOTO RIVER WEST COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T. MULLINS</b>	U.S. ARMY ENGINEER DISTRICT COLUMBUS, OHIO	SCIOTO RIVER WEST COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Checked by: <b>J. HALL</b>	<b>CROSS SECTIONS</b> <b>287+50 TO 290+00</b>	
Reviewed by: <b>AS SHOWN</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>1628</b>
Approved by: Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	FILENAME: 00c12a09.dgn PEN TABLE: b.plt 1.plt Sheet <b>9</b> of <b>30</b>





**NOTES**

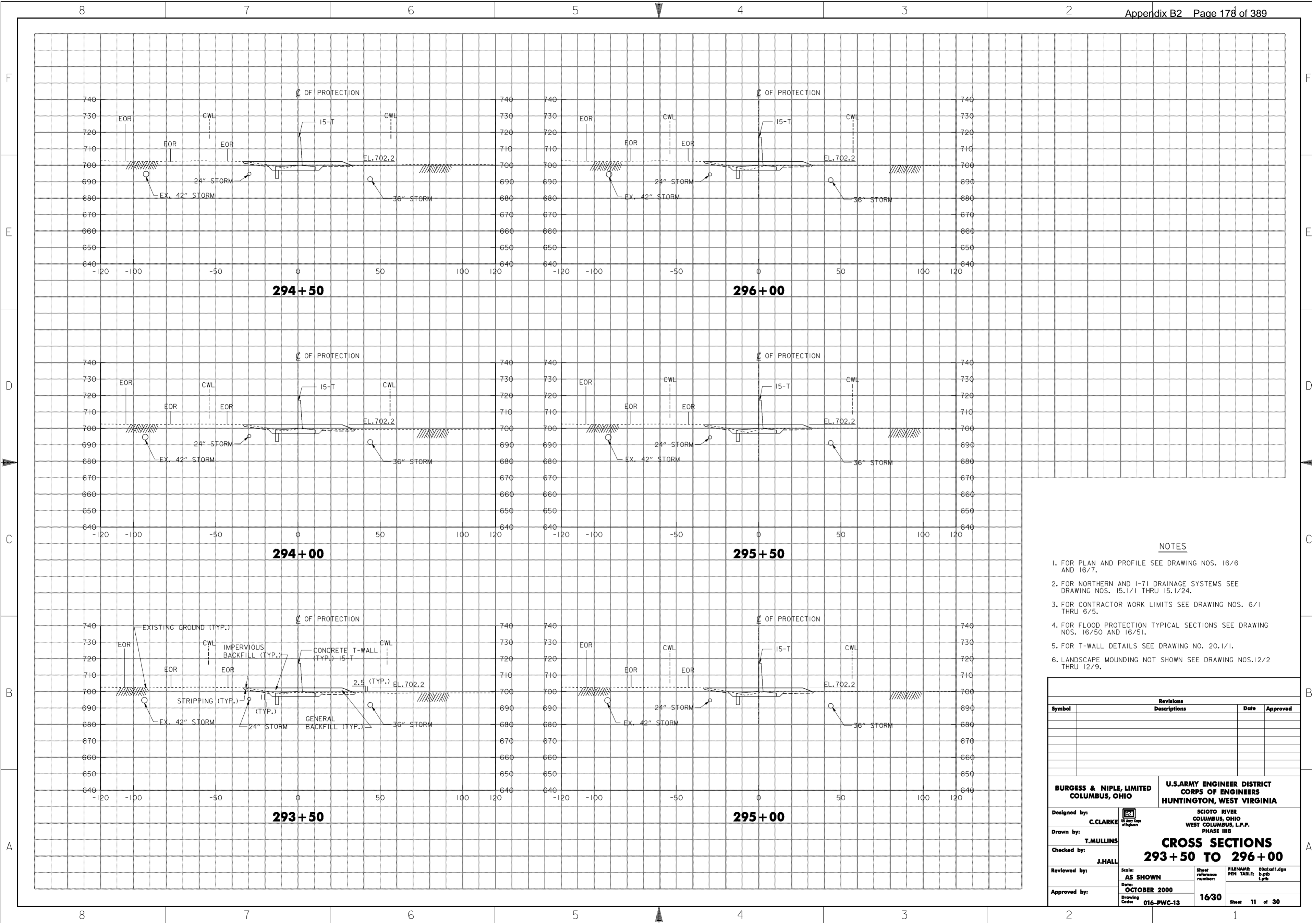
1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/6.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: <b>AS SHOWN</b></p> <p>Approved by: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p><b>CROSS SECTIONS</b> <b>290+50 TO 293+00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Sheet reference number: <b>16/29</b></p> <p>FILENAME: 00c1x10.dgn PEN TABLE: b.tbl 1.plt</p> <p>Sheet <b>10</b> of <b>30</b></p>
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**WORK AS CONSTRUCTED**



**NOTES**

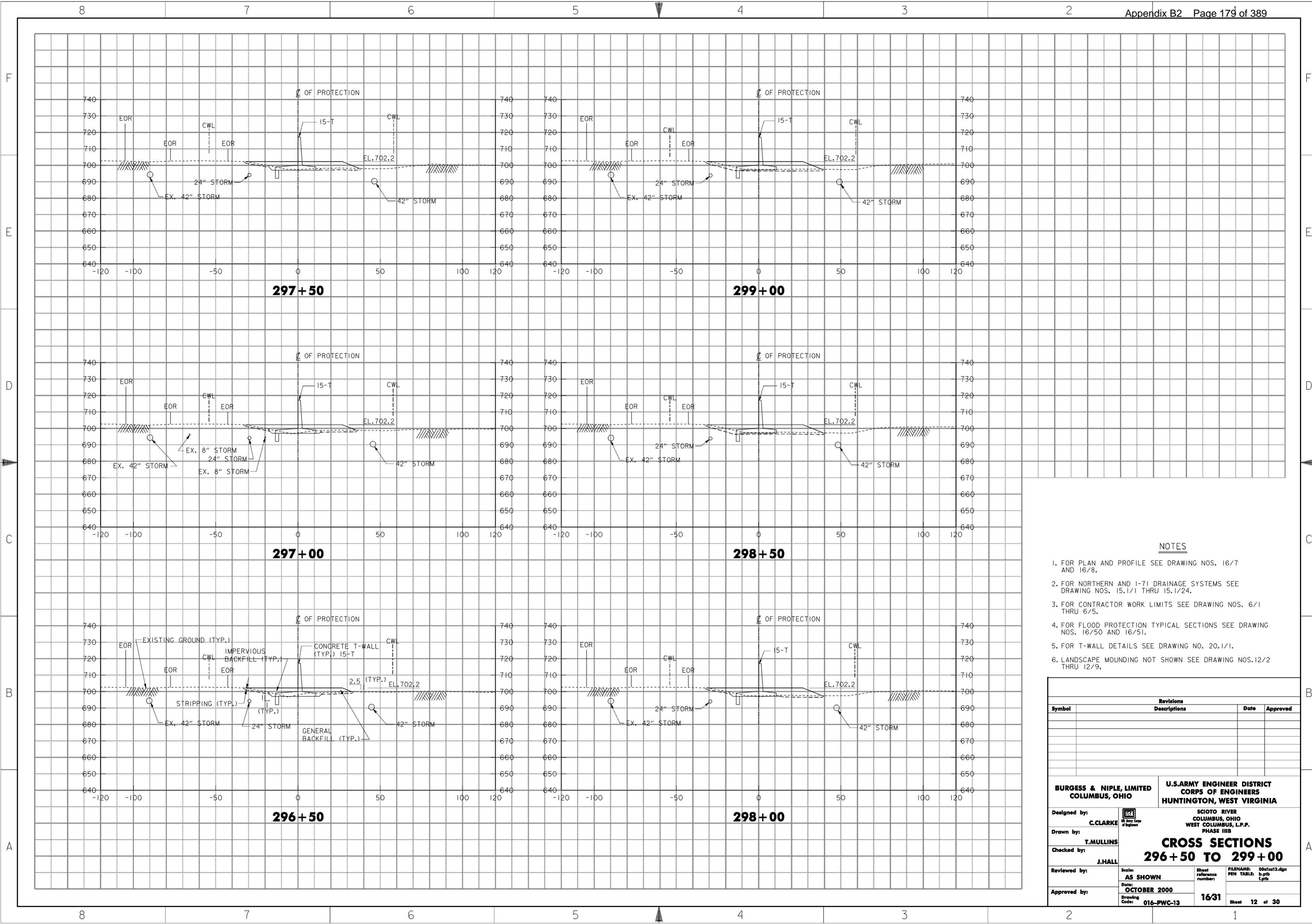
1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/6 AND 16/7.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO  Designed by: <b>C. CLARKE</b> Drawn by: <b>T. MULLINS</b> Checked by: <b>J. HALL</b> Reviewed by:  Approved by:  Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA  SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B  <b>CROSS SECTIONS</b> <b>293+50 TO 296+00</b>  Sheet reference number: <b>1630</b> FILENAME: 00c1x11.dgn PEN TABLE: p.tbl 1.plt Sheet <b>11</b> of <b>30</b>
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**WORK AS CONSTRUCTED**



**NOTES**

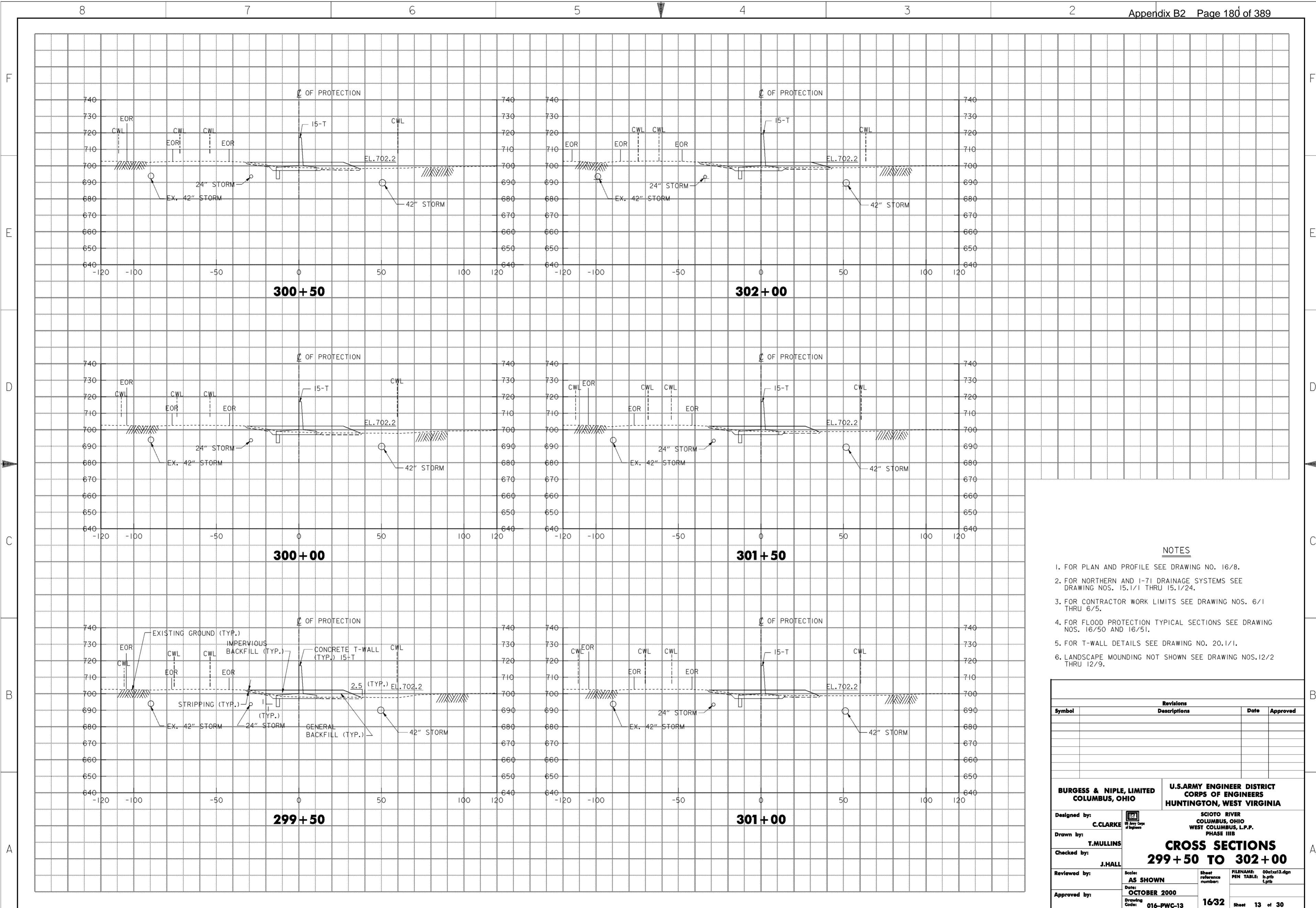
1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/7 AND 16/8.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT COLUMBUS, OHIO	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T. MULLINS</b>	Checked by: <b>J. HALL</b>	Reviewed by: AS SHOWN
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>
<b>CROSS SECTIONS</b> <b>296 + 50 TO 299 + 00</b>		Sheet reference number: <b>16/31</b>
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**WORK AS CONSTRUCTED**



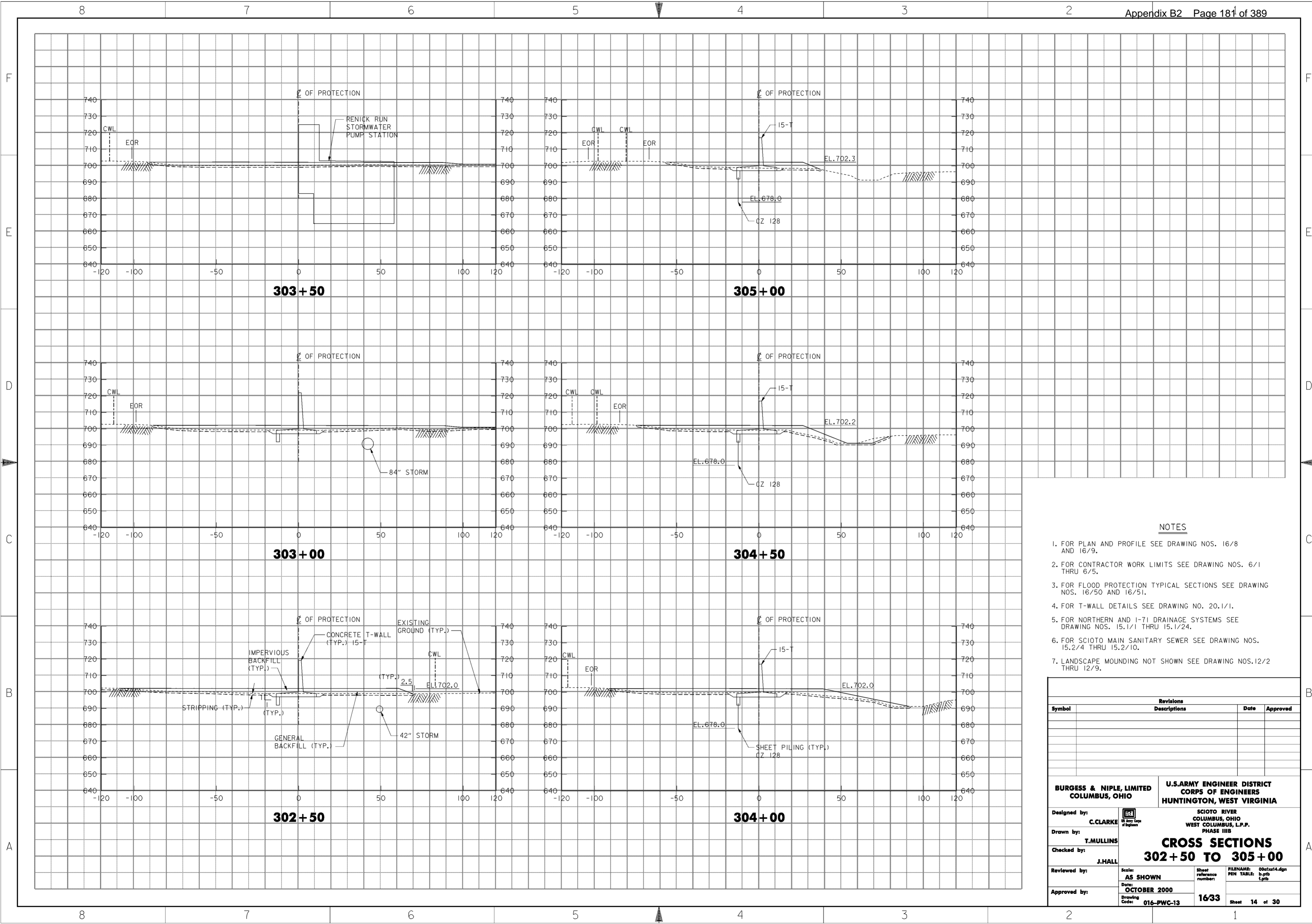
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/8.
2. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
3. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
4. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
5. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
6. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by:</p> <p>Approved by:</p>	<p style="text-align: center;"><b>U.S. ARMY ENGINEER DISTRICT</b> <b>COLUMBUS, OHIO</b></p> <p style="text-align: center;">SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p style="text-align: center;"><b>CROSS SECTIONS</b> <b>299+50 TO 302+00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p> <p>Sheet reference number: <b>1632</b></p> <p>FILENAME: 00c1x13.dgn PEN TABLE: b.tbl L.tbl</p> <p style="text-align: right;">Sheet <b>13</b> of <b>30</b></p>
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**NOTES**

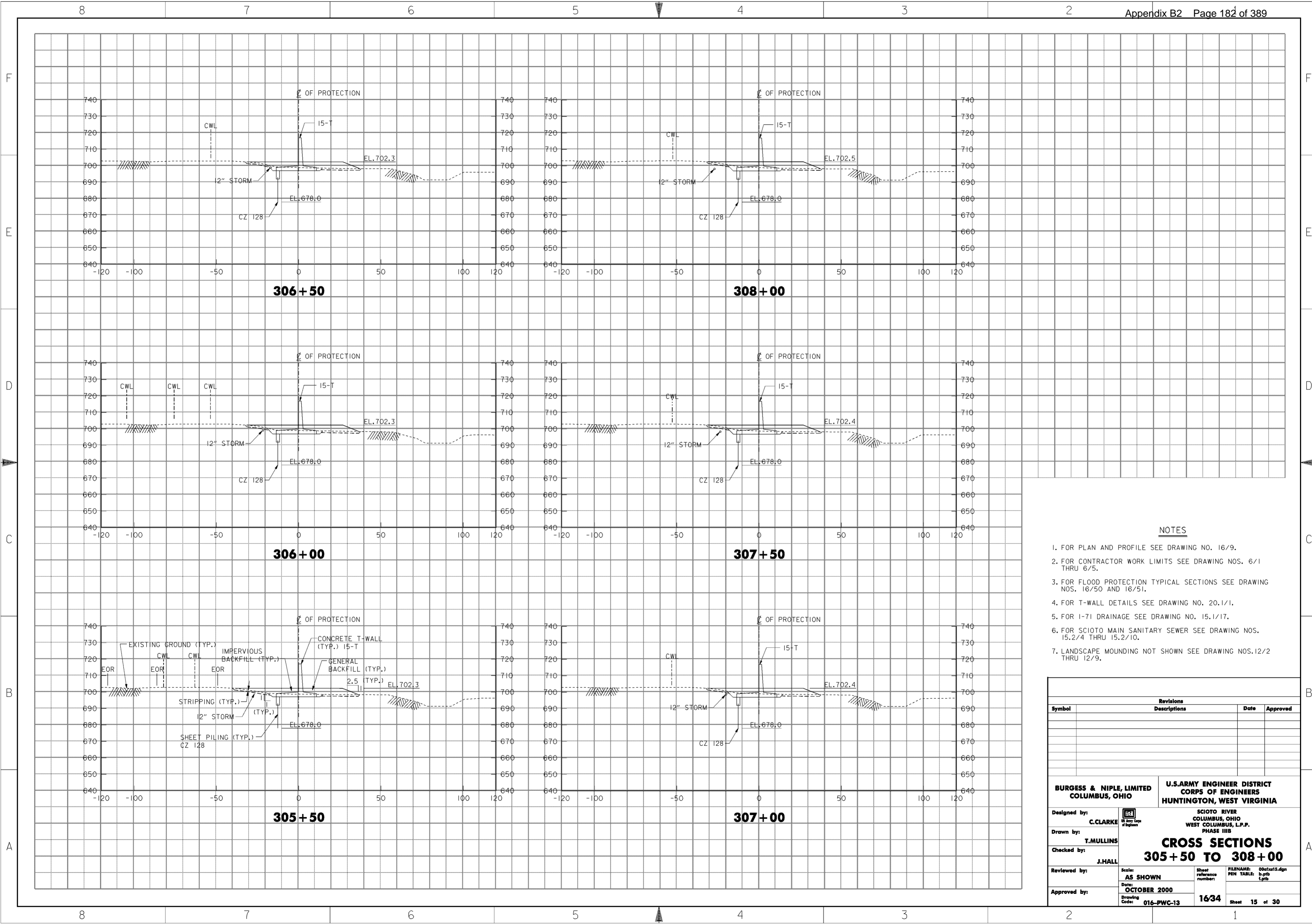
1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/8 AND 16/9.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR NORTHERN AND I-71 DRAINAGE SYSTEMS SEE DRAWING NOS. 15.1/1 THRU 15.1/24.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>CROSS SECTIONS</b> <b>302+50 TO 305+00</b>	
Designed by: <b>C. CLARKE</b>		Scale: <b>AS SHOWN</b>	FILENAME: 00c1x14.dgn
Drawn by: <b>T. MULLINS</b>		Date: <b>OCTOBER 2000</b>	PEN TABLE: b.ptb l.ptb
Checked by: <b>J. HALL</b>	Reviewed by: _____	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>1633</b>
Approved by: _____	Sheet <b>14</b> of <b>30</b>		

**WORK AS CONSTRUCTED**



**NOTES**

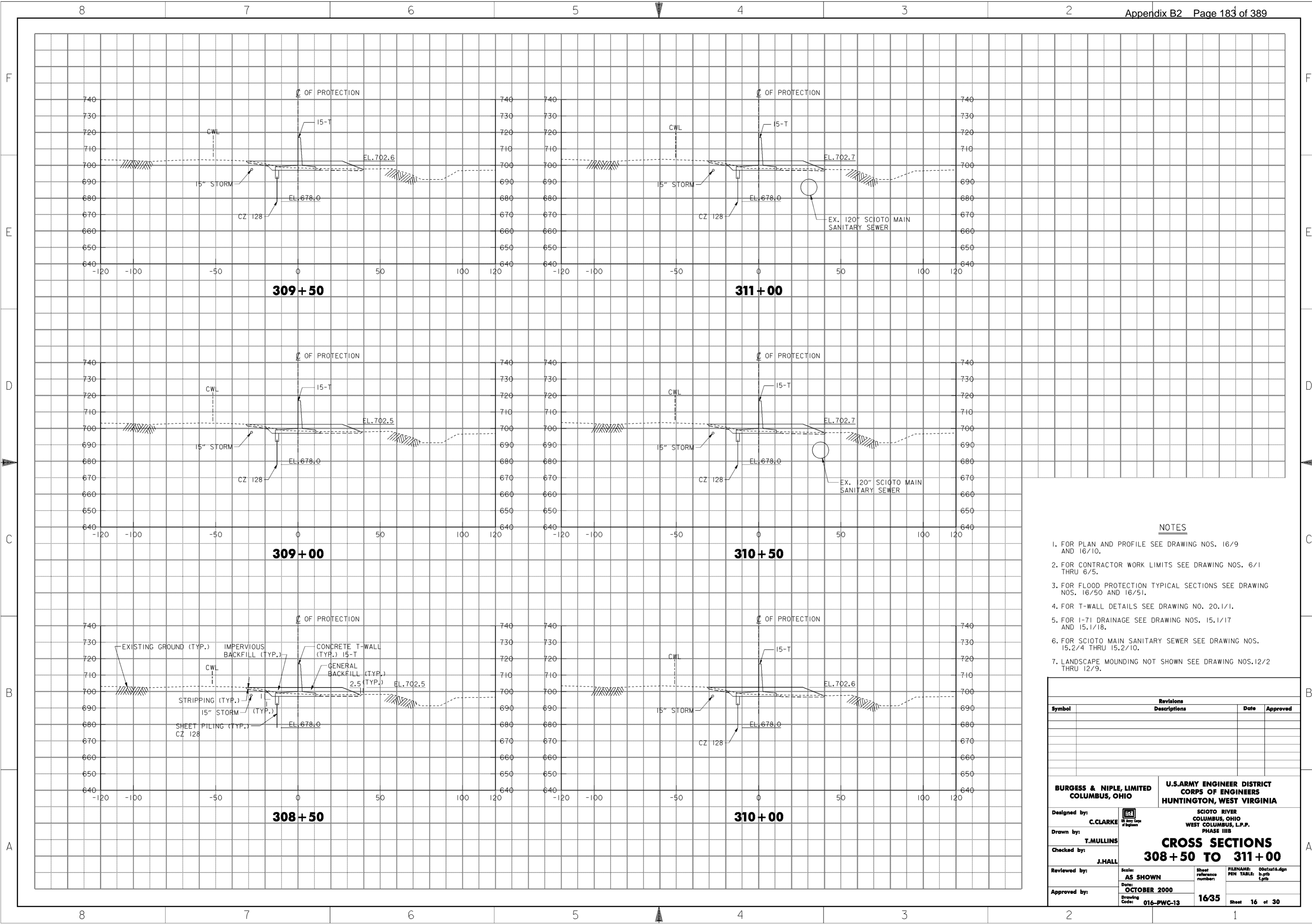
1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/9.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR 1-71 DRAINAGE SEE DRAWING NO. 15.1/17.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: <b>AS SHOWN</b></p> <p>Approved by: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p style="text-align: center;"><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p style="text-align: center;">SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p style="text-align: center;"><b>CROSS SECTIONS</b> <b>305 + 50 TO 308 + 00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p> <p>Sheet reference number: <b>1634</b></p> <p>FILENAME: 00c1x15.dgn PEN TABLE: b.tbl 1.plt</p> <p style="text-align: right;">Sheet <b>15</b> of <b>30</b></p>
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**WORK AS CONSTRUCTED**



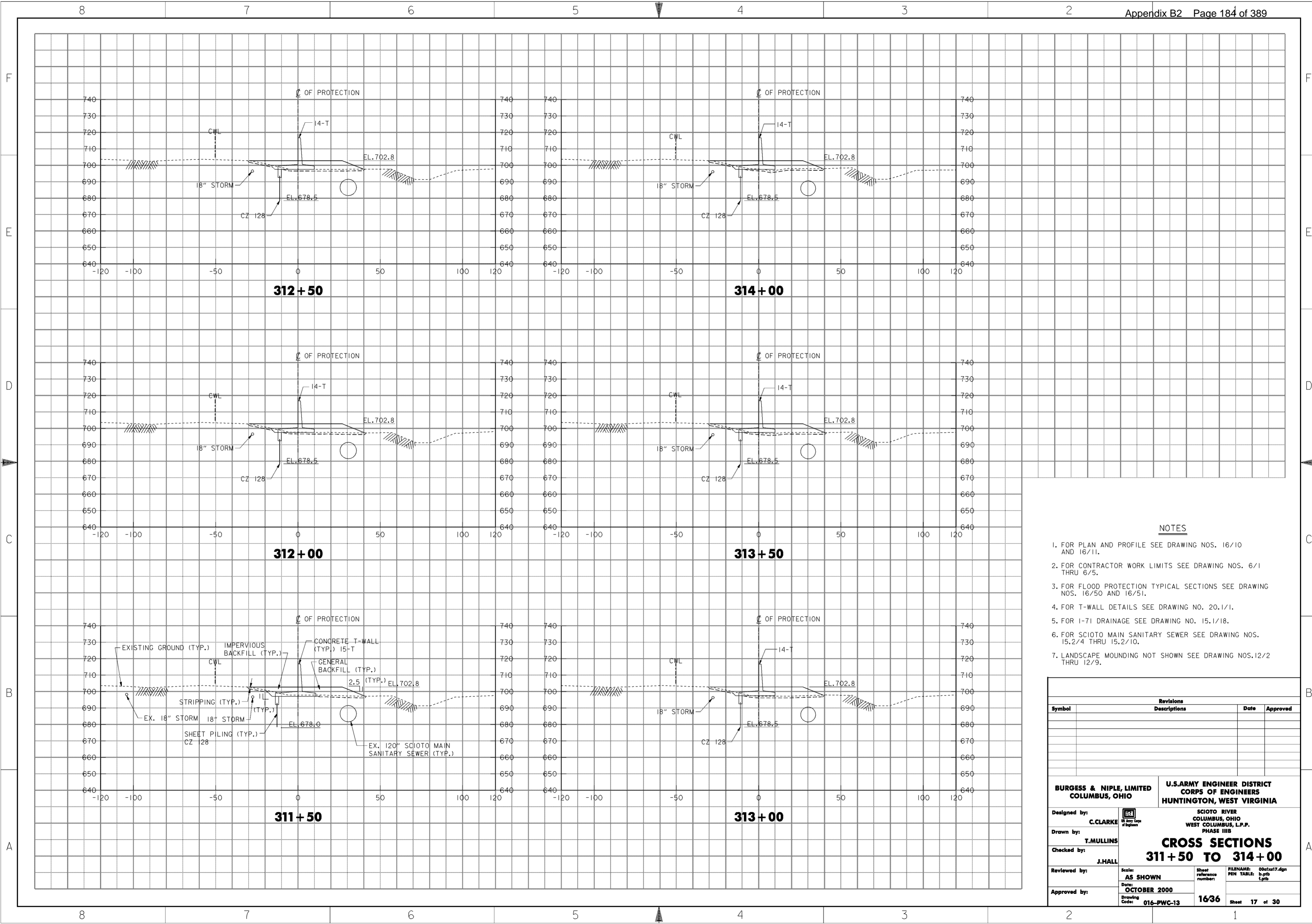
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/9 AND 16/10.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR 1-71 DRAINAGE SEE DRAWING NOS. 15.1/17 AND 15.1/18.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: <b>AS SHOWN</b></p> <p>Approved by: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p style="text-align: center;"><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p style="text-align: center;">SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p style="text-align: center;"><b>CROSS SECTIONS</b> <b>308+50 TO 311+00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Sheet reference number: <b>1635</b></p> <p>FILENAME: 00c1x16.dgn PEN TABLE: 0.tbl 1.tbl</p> <p style="text-align: right;">Sheet <b>16</b> of <b>30</b></p>
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**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/10 AND 16/11.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR I-71 DRAINAGE SEE DRAWING NO. 15.1/18.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

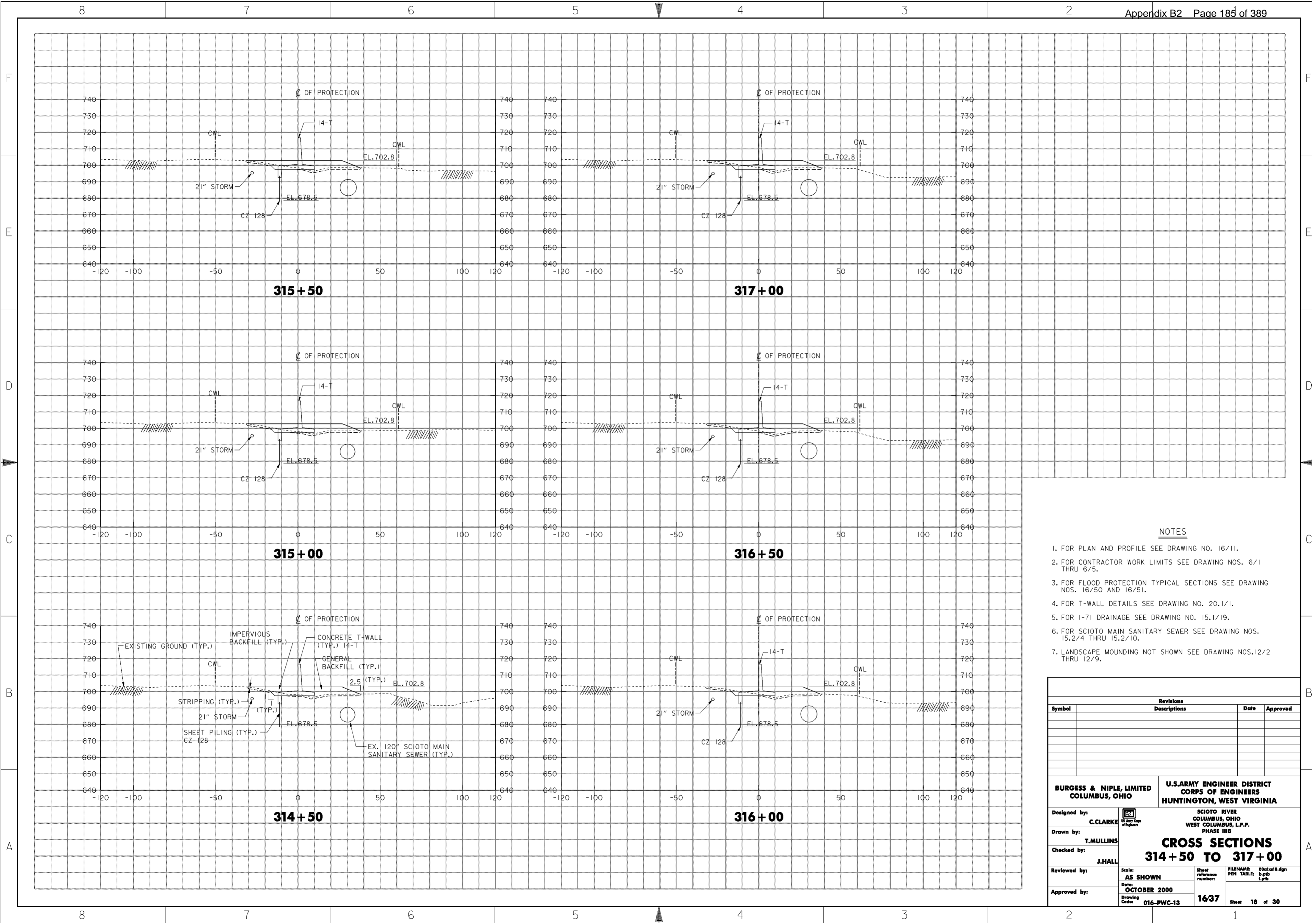
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT COLUMBUS, OHIO	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T. MULLINS</b>	Checked by: <b>J. HALL</b>	Reviewed by: <b>AS SHOWN</b>
Approved by: _____	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>
<b>CROSS SECTIONS</b> <b>311 + 50 TO 314 + 00</b>		FILENAME: 00c1x17.dgn PEN TABLE: b.tbl 1.tbl Sheet 17 of 30

**WORK AS CONSTRUCTED**





**NOTES**

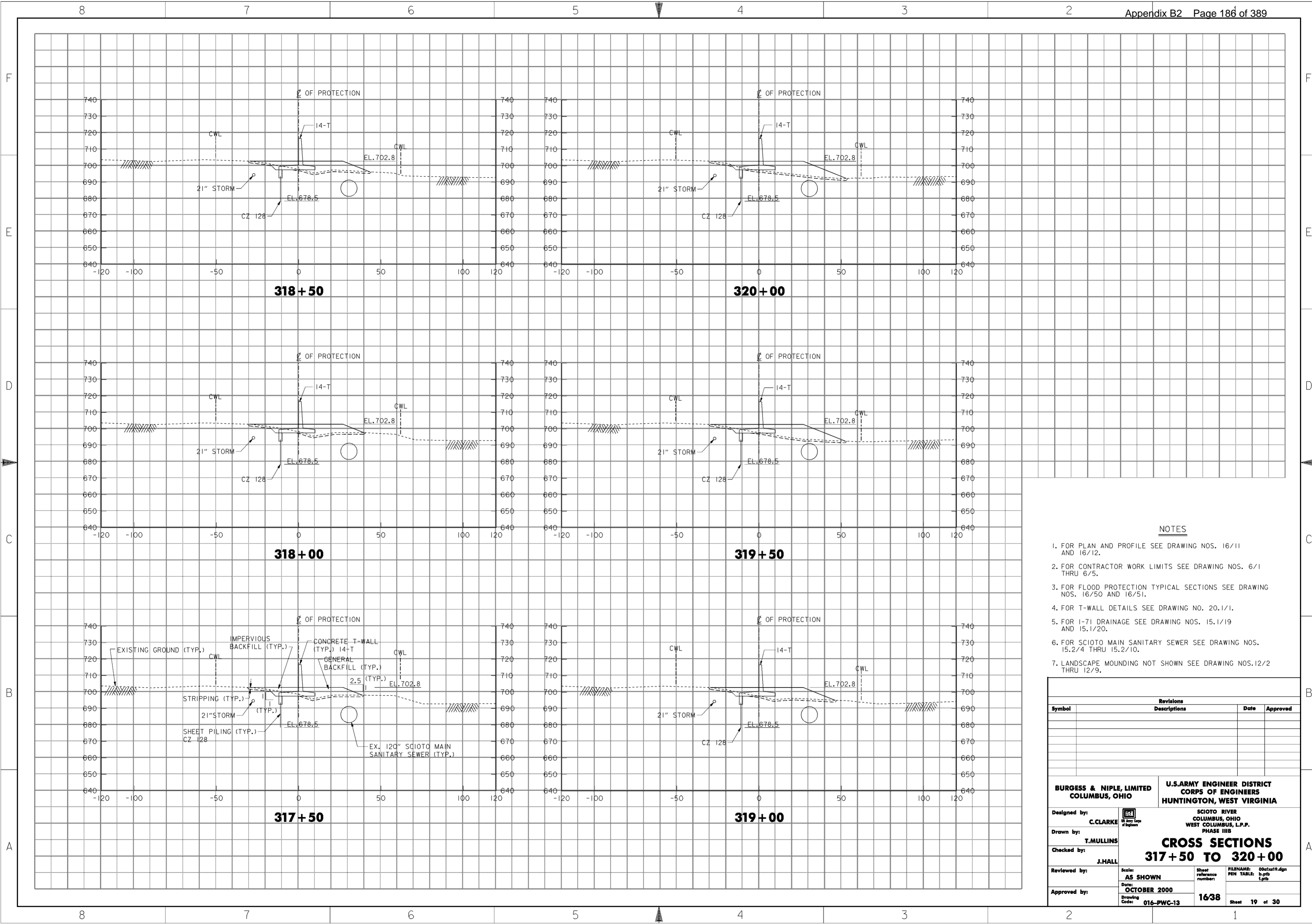
1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/11.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR I-71 DRAINAGE SEE DRAWING NO. 15.1/19.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Designed by: <b>C. CLARKE</b>	<b>CROSS SECTIONS</b> <b>314+50 TO 317+00</b>	
Drawn by: <b>T. MULLINS</b>		
Checked by: <b>J. HALL</b>		
Reviewed by: <b>AS SHOWN</b>		
Approved by: _____	Scale: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>1637</b> FILENAME: 00c1x18.dgn PEN TABLE: b.plt 1.plt

**WORK AS CONSTRUCTED**



**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/11 AND 16/12.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR I-71 DRAINAGE SEE DRAWING NOS. 15.1/19 AND 15.1/20.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

**BURGESS & NIPLE, LIMITED**  
COLUMBUS, OHIO

Designed by: **C. CLARKE**

Drawn by: **T. MULLINS**

Checked by: **J. HALL**

Reviewed by: **AS SHOWN**

Approved by: **OCTOBER 2000**

Drawing Code: **016-PWC-13**

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

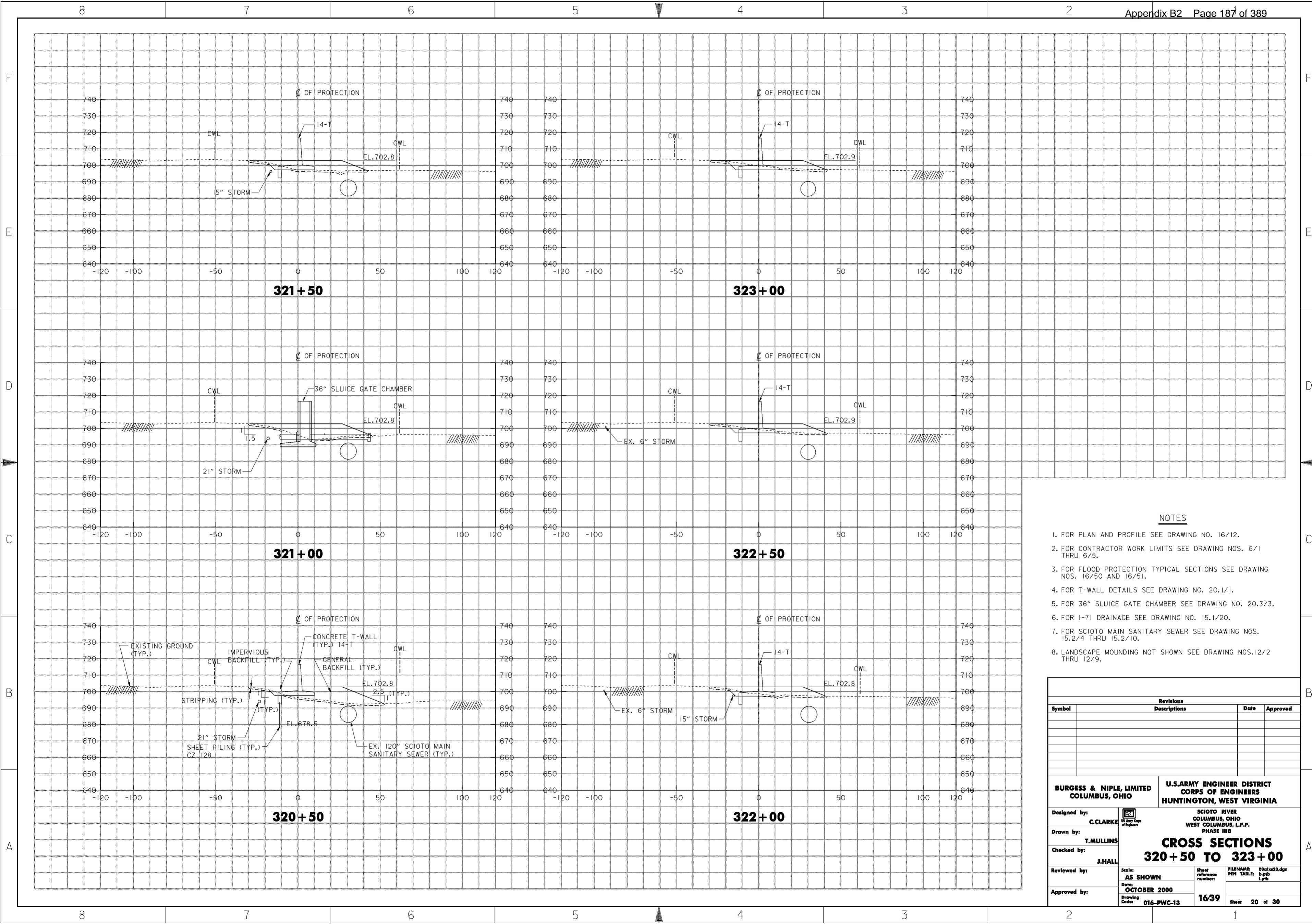
SCIOTO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS, L.P.P.  
PHASE III B

**CROSS SECTIONS**  
**317+50 TO 320+00**

Sheet reference number: **1638**

FILENAME: 00c1x19.dgn  
PEN TABLE: b.ptb  
L.ptb

Sheet **19** of **30**



**NOTES**

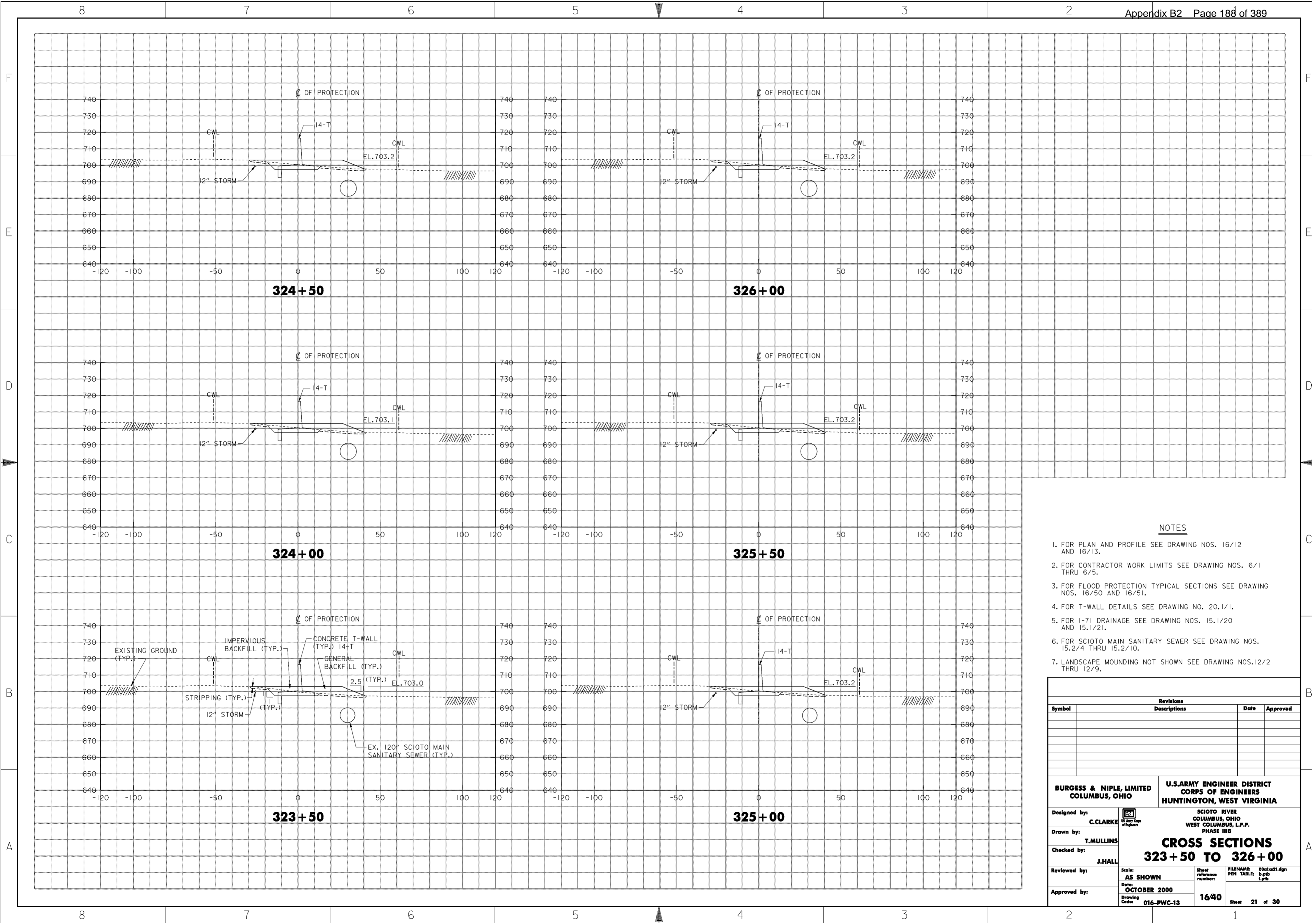
1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/12.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR 36" SLUICE GATE CHAMBER SEE DRAWING NO. 20.3/3.
6. FOR 1-71 DRAINAGE SEE DRAWING NO. 15.1/20.
7. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
8. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: <b>AS SHOWN</b></p> <p>Approved by: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p><b>CROSS SECTIONS</b> <b>320+50 TO 323+00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p> <p>Sheet reference number: <b>1639</b></p> <p>FILENAME: 00c1x20.dgn PEN TABLE: b.plt 1.plt</p> <p>Sheet <b>20</b> of <b>30</b></p>
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**WORK AS CONSTRUCTED**



**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/12 AND 16/13.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR 1-71 DRAINAGE SEE DRAWING NOS. 15.1/20 AND 15.1/21.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
7. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

**BURGESS & NIPLE, LIMITED**  
COLUMBUS, OHIO

Designed by: **C. CLARKE**

Drawn by: **T. MULLINS**

Checked by: **J. HALL**

Reviewed by: **AS SHOWN**

Approved by: **OCTOBER 2000**

Drawing Code: **016-PWC-13**

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

SCIOTO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS, L.P.P.  
PHASE III B

**CROSS SECTIONS**  
**323 + 50 TO 326 + 00**

Scale: **AS SHOWN**

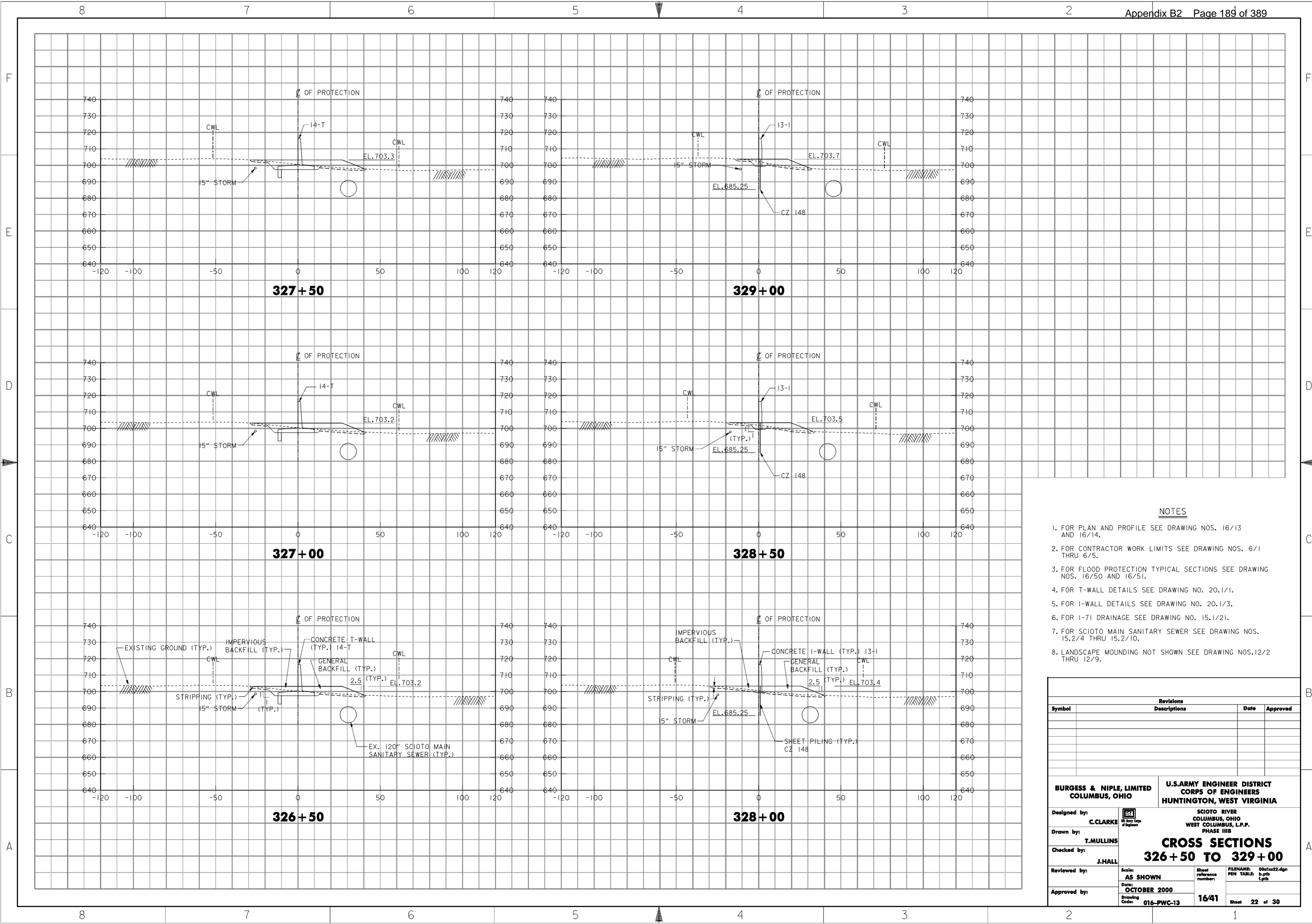
Date: **OCTOBER 2000**

Drawing Code: **016-PWC-13**

FILENAME: 00c1x21.dgn  
PEN TABLE: b.tbl  
1.plt

Sheet reference number: **16/40**

Sheet **21** of **30**



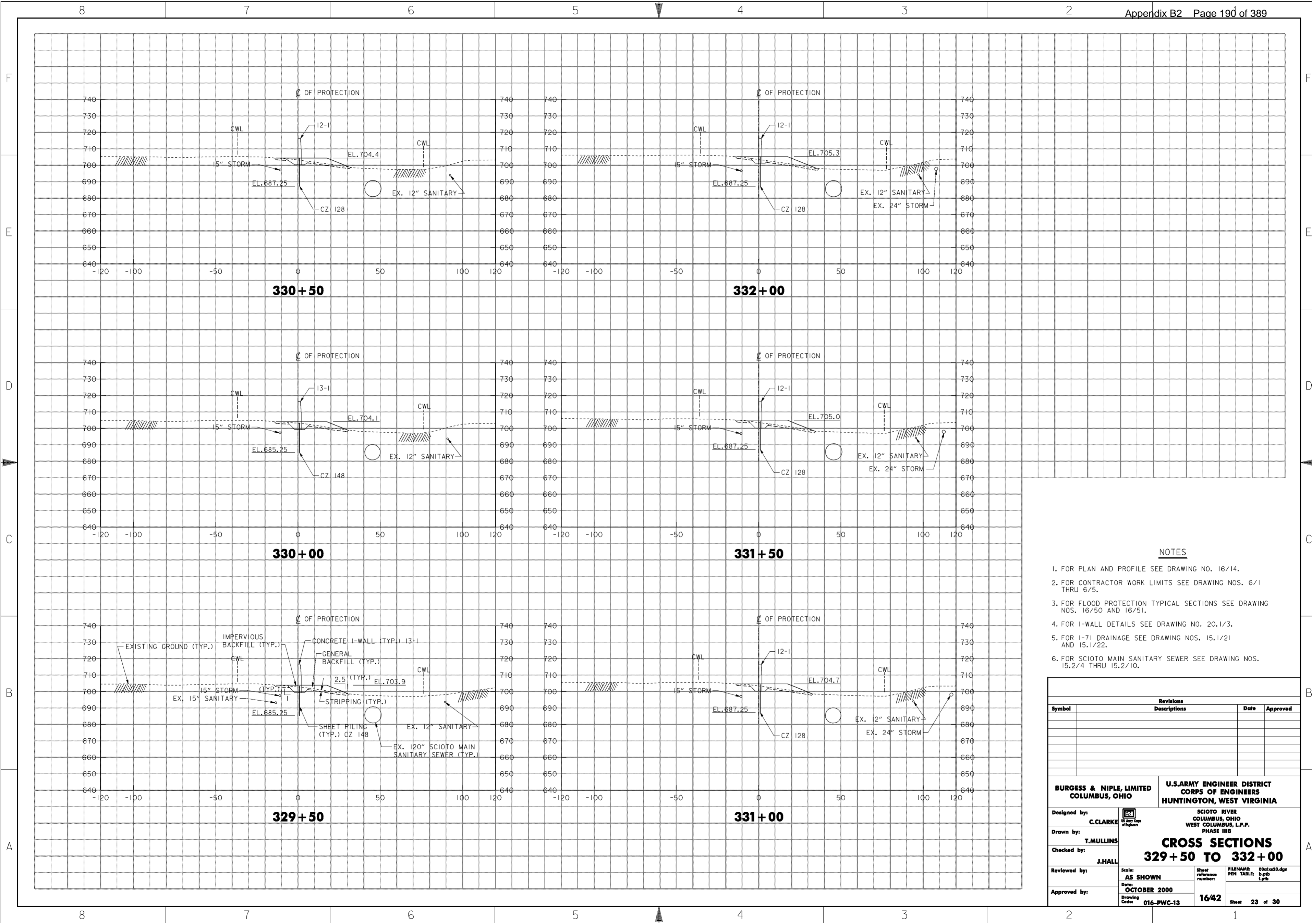
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/13 AND 16/14.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR T-WALL DETAILS SEE DRAWING NO. 20.1/1.
5. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
6. FOR I-71 DRAINAGE SEE DRAWING NO. 15.1/21.
7. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
8. LANDSCAPE MOUNDING NOT SHOWN SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>CROSS SECTIONS</b> <b>326 + 50 TO 329 + 00</b>	
Designed by: <b>C. CLARKE</b>		Scale: <b>AS SHOWN</b>	FILENAME: 00c1x22.dgn
Drawn by: <b>T. MULLINS</b>		Date: <b>OCTOBER 2000</b>	PEN TABLE: b.plt l.plt
Checked by: <b>J. HALL</b>	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>16/41</b>	Sheet <b>22</b> of <b>30</b>
Reviewed by: (blank)	Approved by: (blank)	(blank)	(blank)



**NOTES**

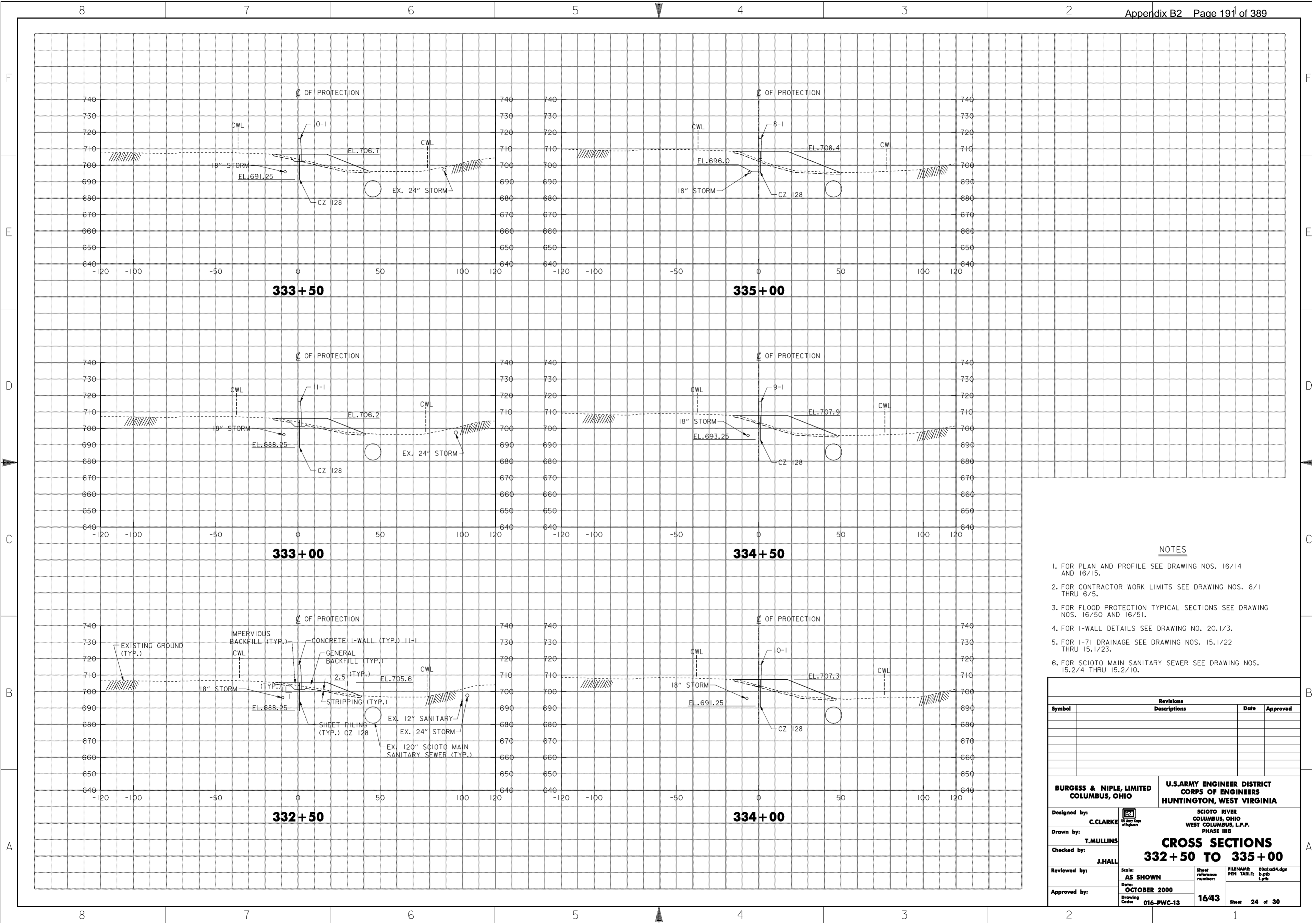
1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/14.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
5. FOR I-71 DRAINAGE SEE DRAWING NOS. 15.1/21 AND 15.1/22.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: <b>AS SHOWN</b></p> <p>Approved by: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p><b>CROSS SECTIONS</b> <b>329+50 TO 332+00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p> <p>Sheet reference number: <b>16/42</b></p> <p>FILENAME: 00c1x23.dgn PEN TABLE: b.tbl L.tbl</p> <p>Sheet <b>23</b> of <b>30</b></p>
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**WORK AS CONSTRUCTED**



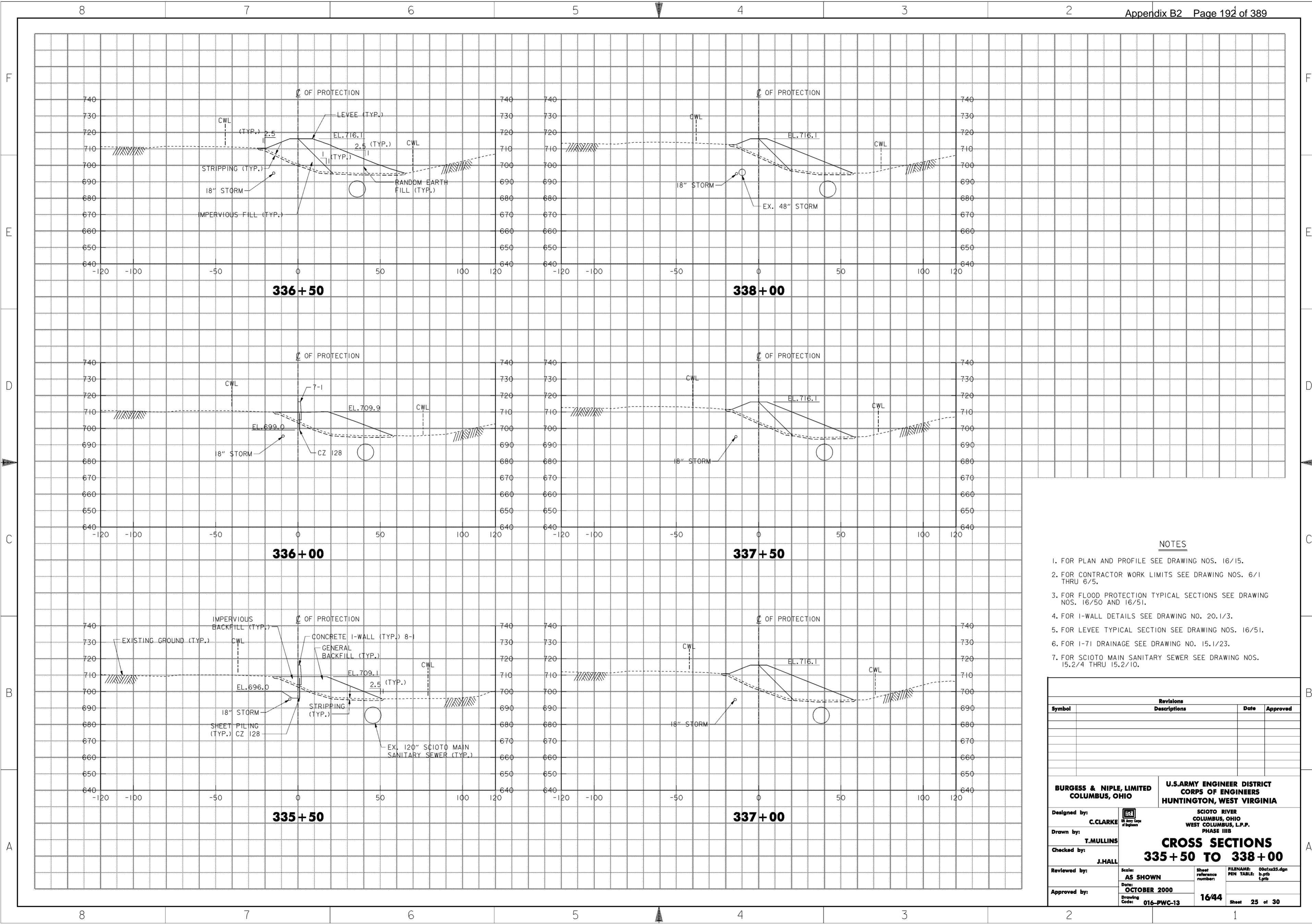
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/14 AND 16/15.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
5. FOR I-71 DRAINAGE SEE DRAWING NOS. 15.1/22 THRU 15.1/23.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: <b>AS SHOWN</b></p> <p>Approved by: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p style="text-align: center;"><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p style="text-align: center;">SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p style="text-align: center;"><b>CROSS SECTIONS</b> <b>332+50 TO 335+00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p> <p>Sheet reference number: <b>16/43</b></p> <p>FILENAME: 00c1x24.dgn PEN TABLE: b.tbl L.tbl</p> <p style="text-align: right;">Sheet <b>24</b> of <b>30</b></p>
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**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/15.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR I-WALL DETAILS SEE DRAWING NO. 20.1/3.
5. FOR LEVEE TYPICAL SECTION SEE DRAWING NOS. 16/51.
6. FOR I-71 DRAINAGE SEE DRAWING NO. 15.1/23.
7. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.

Revisions			
Symbol	Descriptions	Date	Approved

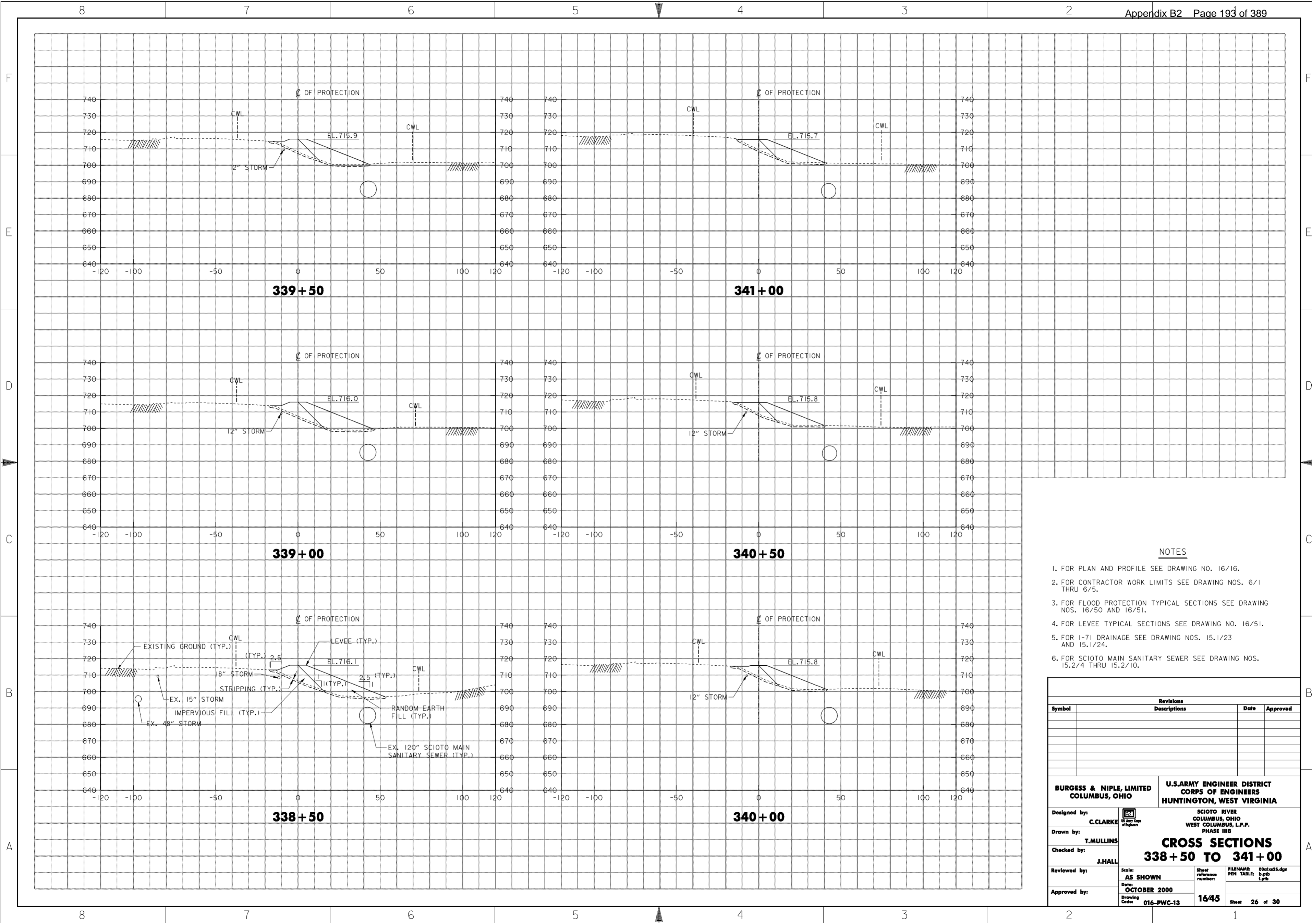
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	C. CLARKE Registered Professional Engineer State of Ohio	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: C. CLARKE	Drawn by: T. MULLINS	<b>CROSS SECTIONS</b> <b>335 + 50 TO 338 + 00</b>
Checked by: J. HALL	Reviewed by: AS SHOWN	
Approved by: (Signature)	Date: OCTOBER 2000	
Drawing Code: 016-PWC-13	Sheet reference number: 16/44	

FILENAME: 00c1x25.dgn  
 PEN TABLE: b.plt  
 1.plt  
 Sheet 25 of 30

**WORK AS CONSTRUCTED**





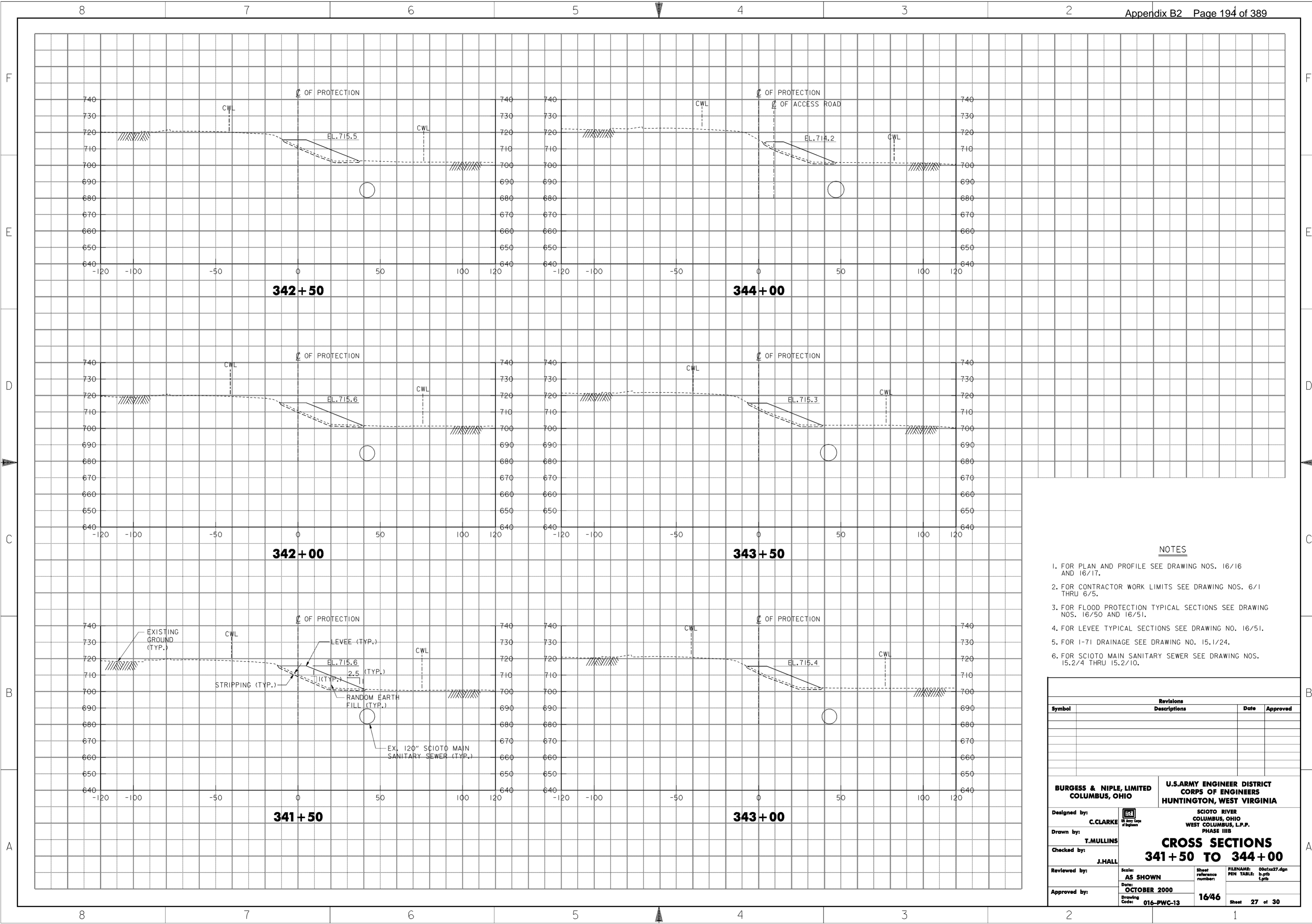
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/16.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR LEVEE TYPICAL SECTIONS SEE DRAWING NO. 16/51.
5. FOR I-71 DRAINAGE SEE DRAWING NOS. 15.1/23 AND 15.1/24.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by: <b>AS SHOWN</b></p> <p>Approved by: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p>	<p><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p><b>CROSS SECTIONS</b> <b>338 + 50 TO 341 + 00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Sheet reference number: <b>16/45</b></p> <p>FILENAME: 00c1x26.dgn PEN TABLE: b.tbl L.tbl</p> <p>Sheet <b>26</b> of <b>30</b></p>
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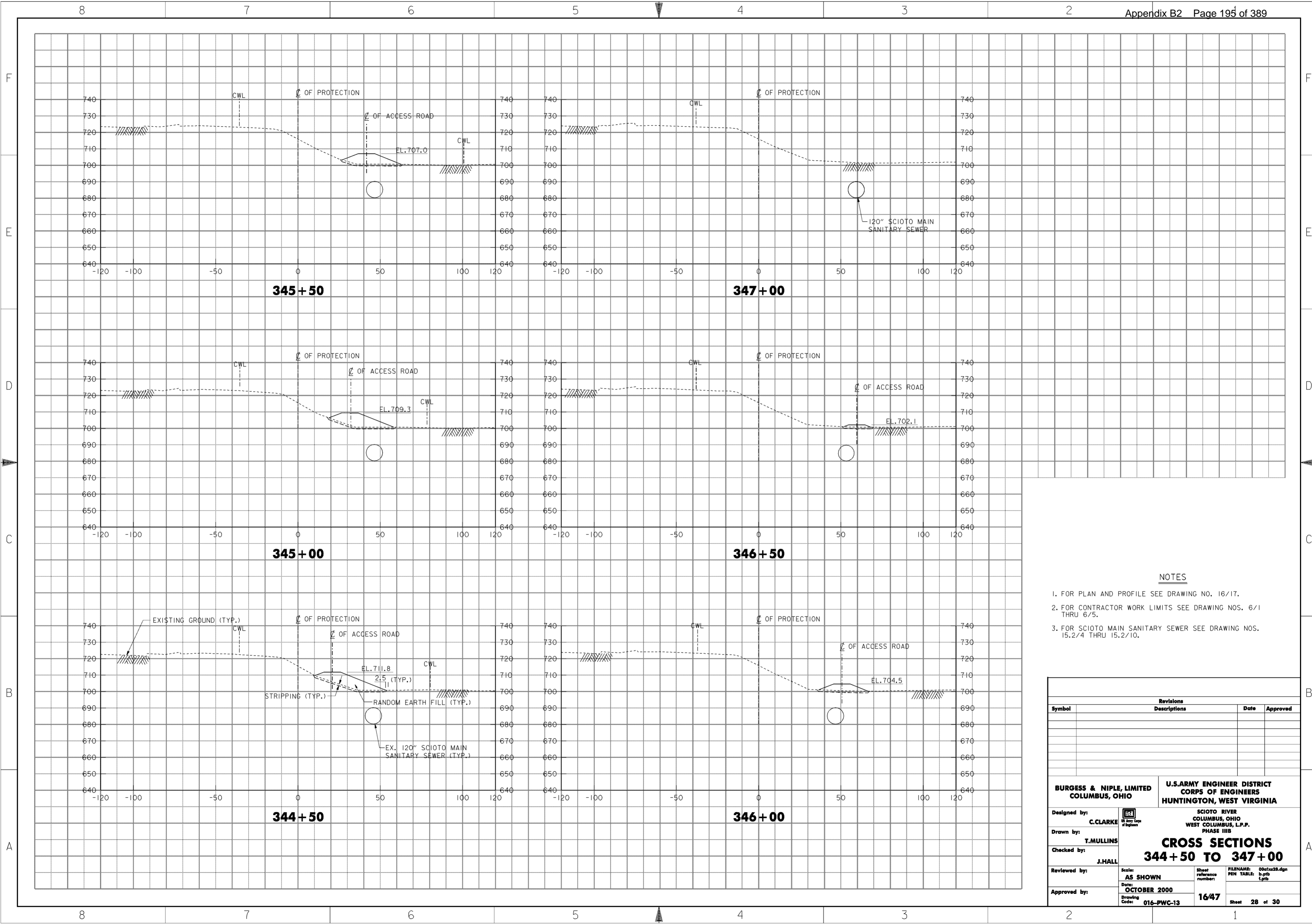
**NOTES**

1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/16 AND 16/17.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR LEVEE TYPICAL SECTIONS SEE DRAWING NO. 16/51.
5. FOR 1-71 DRAINAGE SEE DRAWING NO. 15.1/24.
6. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>C. CLARKE</b>	<b>CROSS SECTIONS</b> <b>341 + 50 TO 344 + 00</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>J. HALL</b>			
Reviewed by: <b>AS SHOWN</b>			
Approved by: Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>16/46</b>	FILENAME: PEN TABLE: 00c1x27.dgn 0.pfb 1.plt
Sheet <b>27</b> of <b>30</b>			



**NOTES**

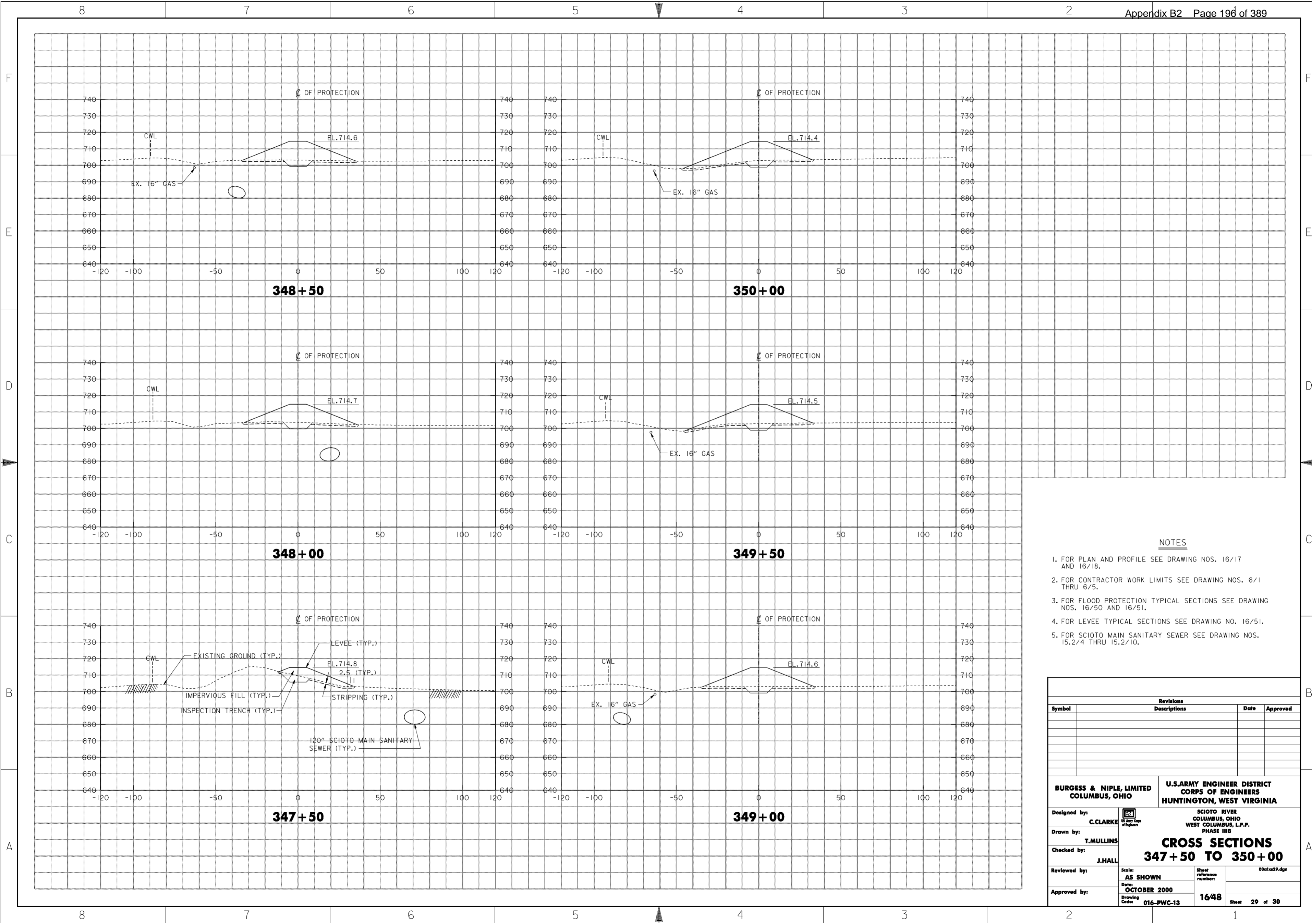
1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/17.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.

Revisions			
Symbol	Descriptions	Date	Approved

<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p> <p>Designed by: <b>C. CLARKE</b></p> <p>Drawn by: <b>T. MULLINS</b></p> <p>Checked by: <b>J. HALL</b></p> <p>Reviewed by:</p> <p>Approved by:</p>	<p style="text-align: center;"><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p> <p style="text-align: center;">SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p> <p style="text-align: center;"><b>CROSS SECTIONS</b> <b>344 + 50 TO 347 + 00</b></p> <p>Scale: <b>AS SHOWN</b></p> <p>Date: <b>OCTOBER 2000</b></p> <p>Drawing Code: <b>016-PWC-13</b></p> <p>Sheet reference number: <b>16/47</b></p> <p>FILENAME: 00c1x28.dgn PEN TABLE: b.plt 1.plt</p> <p style="text-align: right;">Sheet <b>28</b> of <b>30</b></p>
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**WORK AS CONSTRUCTED**



**NOTES**

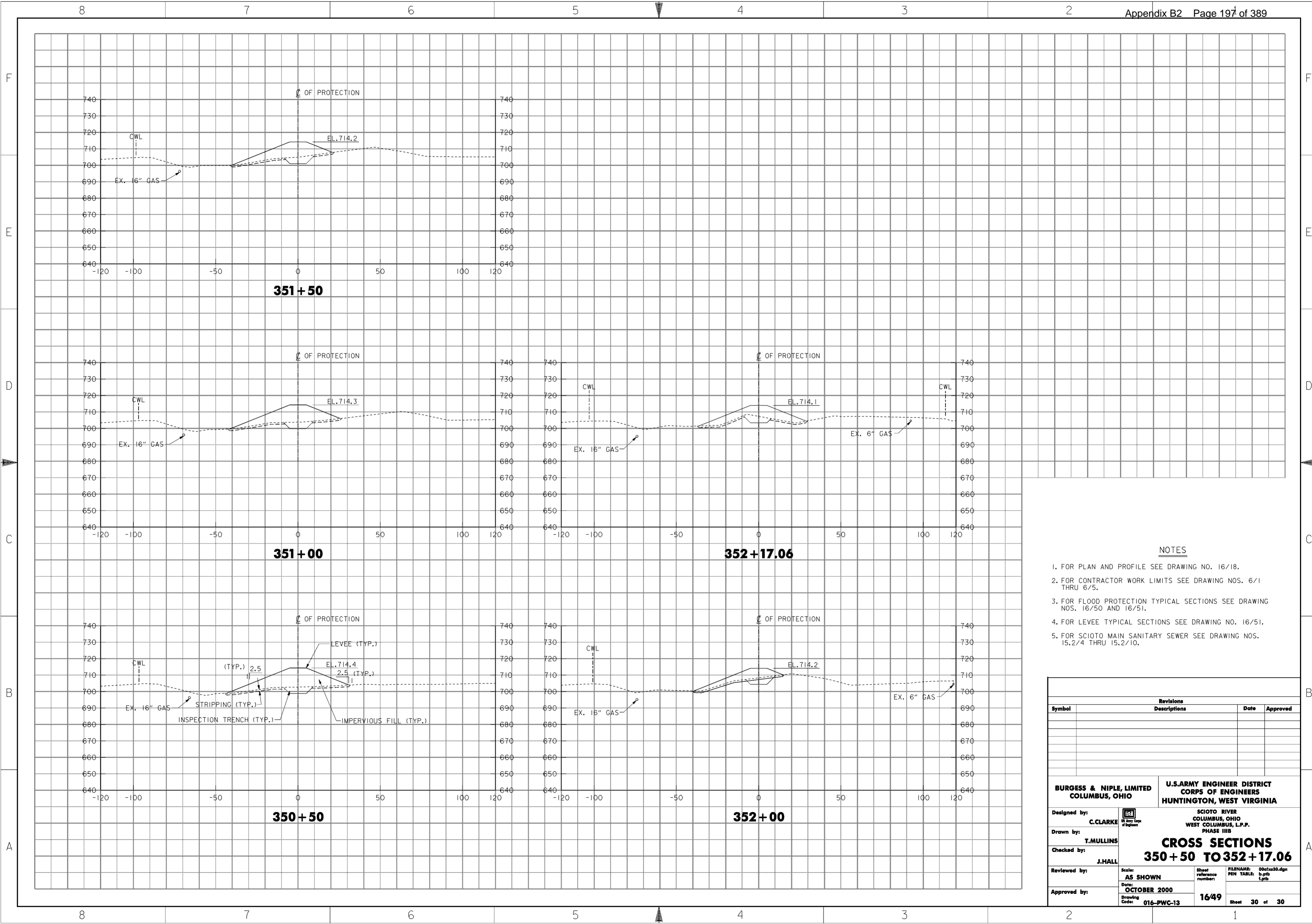
1. FOR PLAN AND PROFILE SEE DRAWING NOS. 16/17 AND 16/18.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR LEVEE TYPICAL SECTIONS SEE DRAWING NO. 16/51.
5. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>CROSS SECTIONS</b> <b>347 + 50 TO 350 + 00</b>	
Designed by: <b>C. CLARKE</b>	J. HALL	Scale: <b>AS SHOWN</b>	Sheet reference number: 001x29.dgn
Drawn by: <b>T. MULLINS</b>		Date: <b>OCTOBER 2000</b>	Sheet <b>29 of 30</b>
Checked by: <b>J. HALL</b>		Drawing Code: <b>016-PWC-13</b>	1648
Reviewed by: (blank)		Approved by: (blank)	(blank)

**WORK AS CONSTRUCTED**



**NOTES**

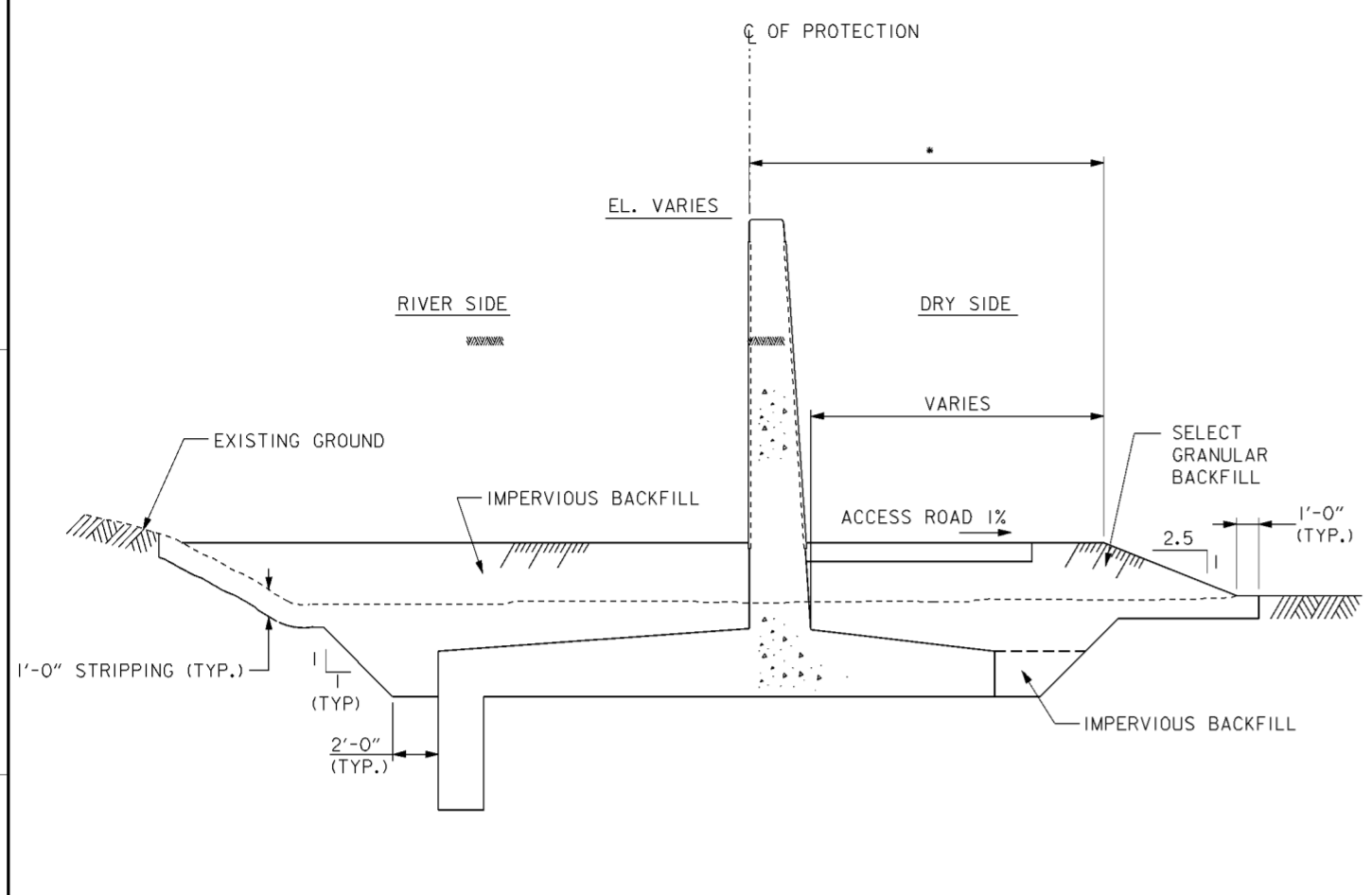
1. FOR PLAN AND PROFILE SEE DRAWING NO. 16/18.
2. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/5.
3. FOR FLOOD PROTECTION TYPICAL SECTIONS SEE DRAWING NOS. 16/50 AND 16/51.
4. FOR LEVEE TYPICAL SECTIONS SEE DRAWING NO. 16/51.
5. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>CROSS SECTIONS</b> <b>350 + 50 TO 352 + 17.06</b>	
Designed by: <b>C. CLARKE</b>		Scale: <b>AS SHOWN</b>	FILENAME: 00c1x30.dgn
Drawn by: <b>T. MULLINS</b>		Date: <b>OCTOBER 2000</b>	PEN TABLE: b.plt l.plt
Checked by: <b>J. HALL</b>	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>16/49</b>	Sheet <b>30</b> of <b>30</b>
Reviewed by:	Approved by:	Approved by:	Approved by:

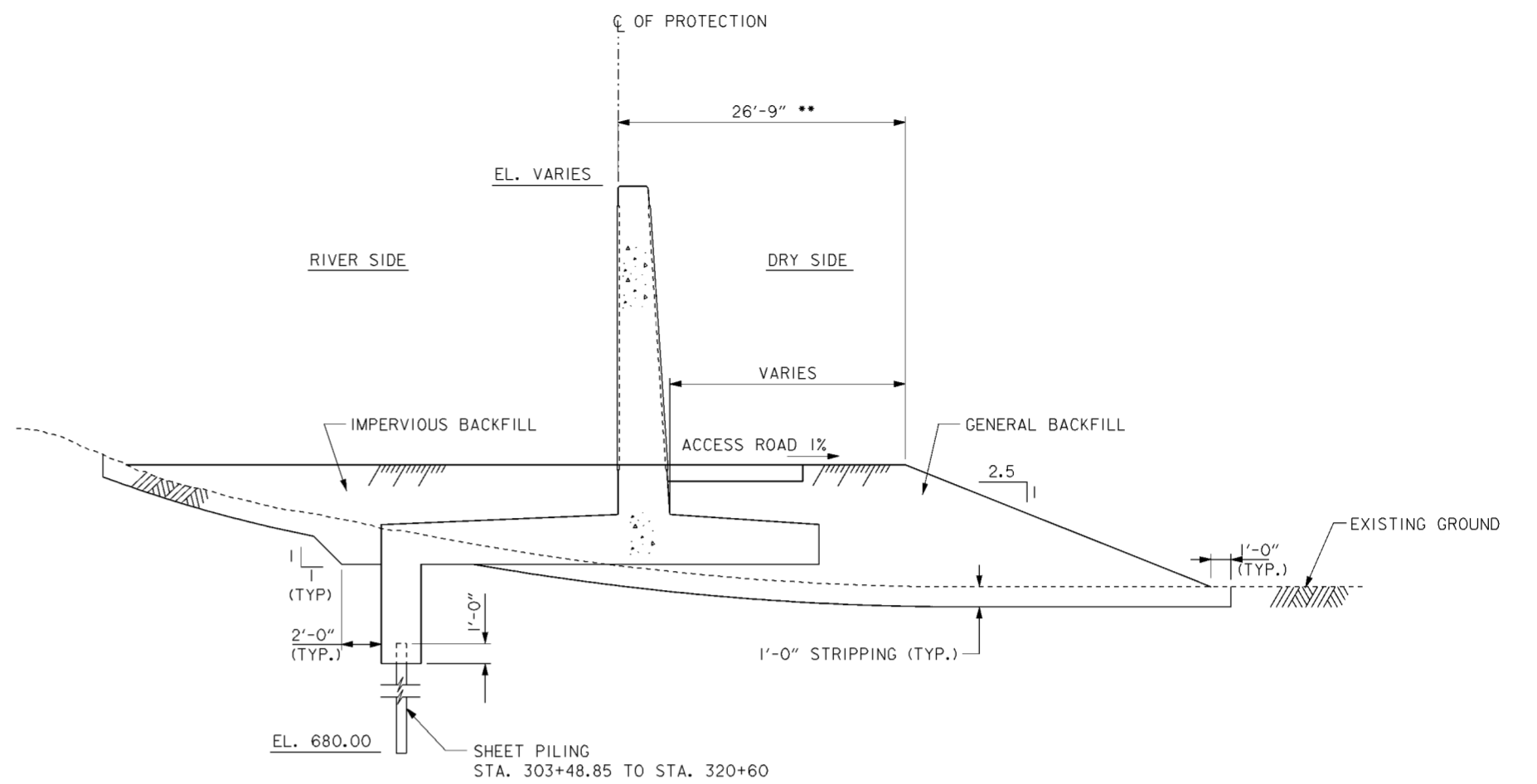
**WORK AS CONSTRUCTED**



**TYPICAL SPECIAL T-WALL SECTION**

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

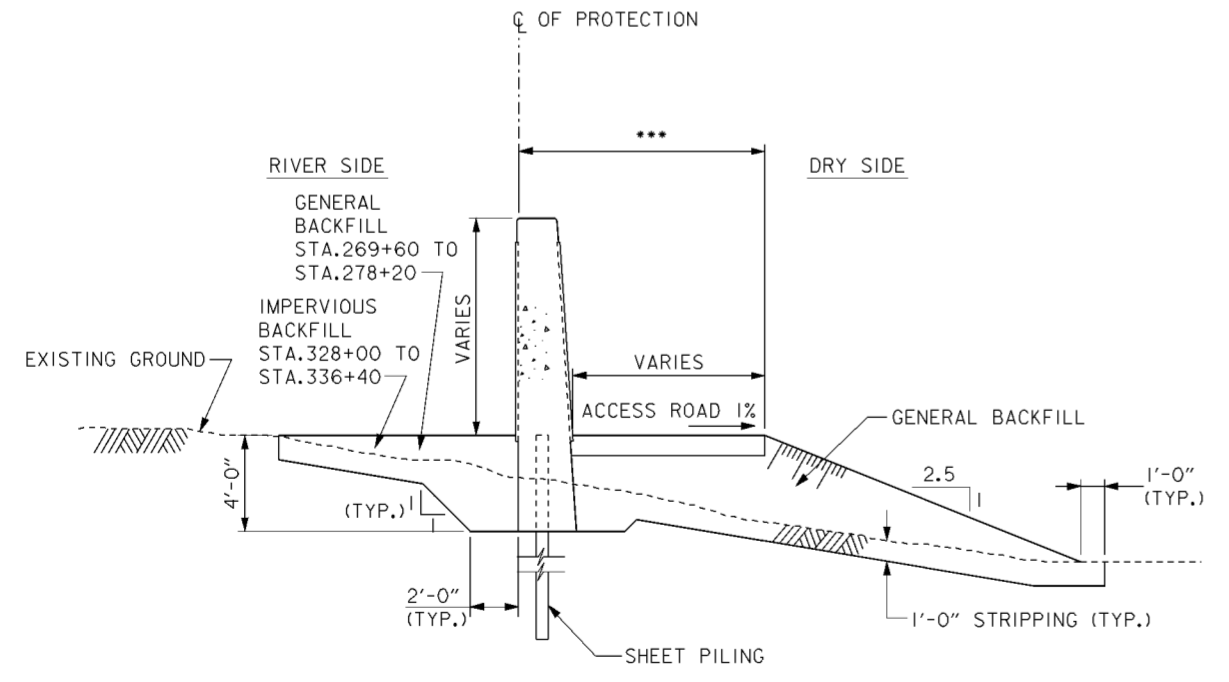
- \* STA. 282+20 TO 285+60 - VARIES 15'-9"
- STA. 285+60 TO 285+80 - VARIES 15'-9" TO 16'-9"
- STA. 285+80 TO 288+30 - VARIES 16'-9"
- STA. 288+30 TO 288+40 - VARIES 16'-9" TO 21'-9"



**TYPICAL T-WALL SECTION**

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

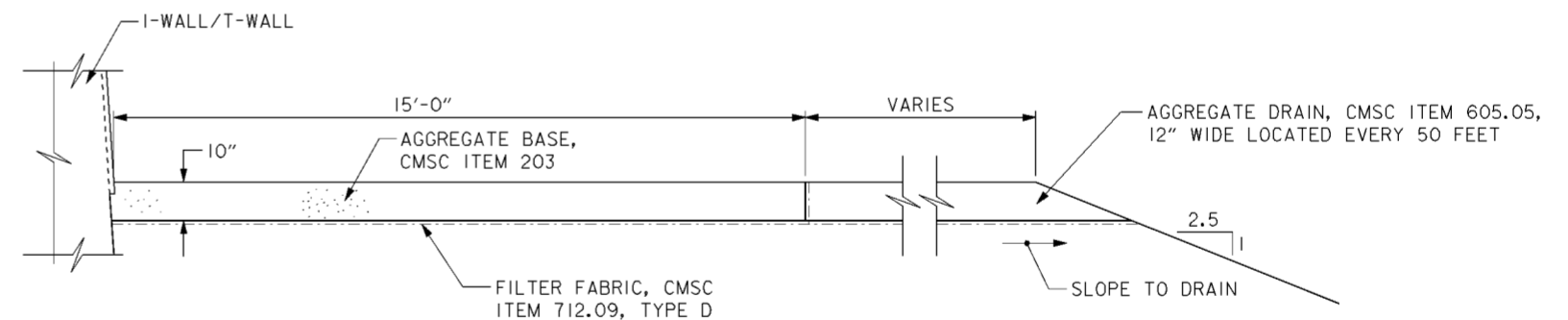
- \*\* STA. 267+85 TO 282+00 - VARIES 26'-9"
- STA. 282+00 TO 282+20 - VARIES 26'-9" TO 15'-9"
- STA. 288+40 TO 288+50 - VARIES 21'-9" TO 26'-9"
- DISCONTINUE ACCESS ROAD AT T-WALL FROM STA. 302+18 TO STA. 303+97



**TYPICAL I-WALL SECTION**

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

- \*\*\* STA. 269+60 TO 278+20 - 26'-9"
- STA. 328+00 TO 328+90 - VARIES 26'-9" TO 17'-6"
- STA. 328+90 TO 335+70 - VARIES 17'-6"
- STA. 335+70 TO 336+40 - VARIES 17'-6" TO 12'-0"



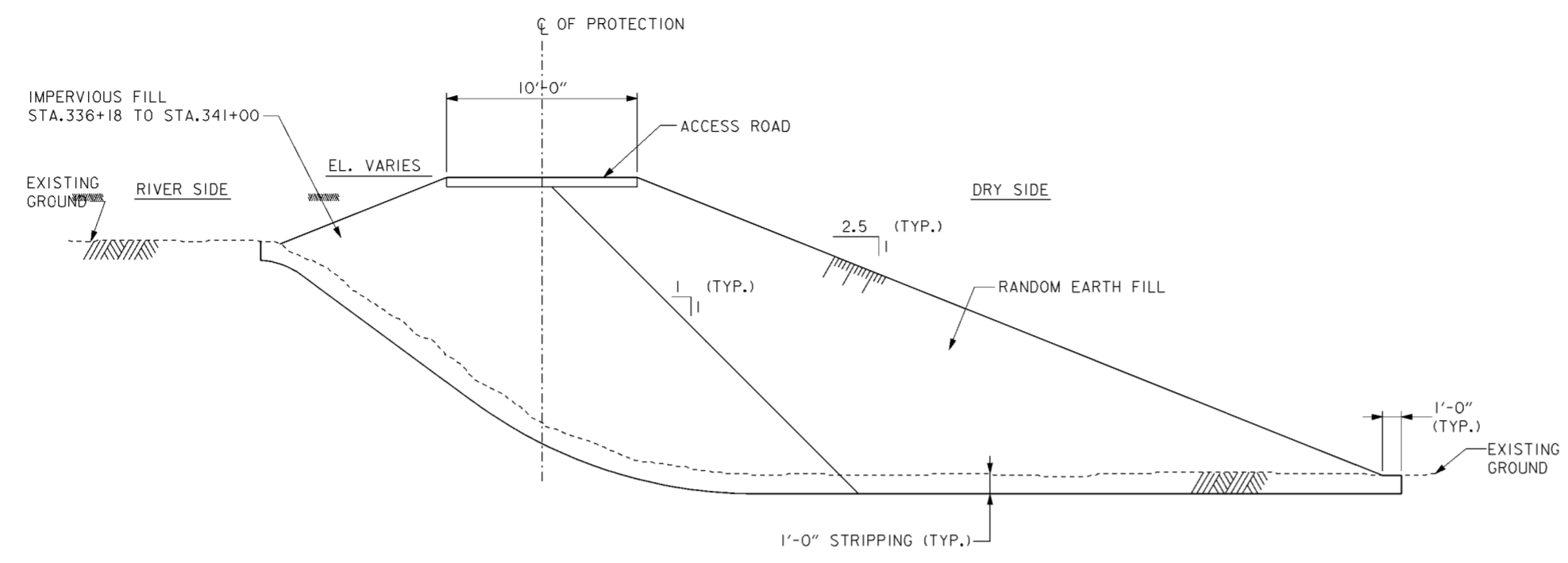
**ACCESS ROAD ADJACENT I-WALL/T-WALL TYPICAL SECTION**

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

NOTE: REDUCE WIDTH STA. 335+70 TO 336+40 TO FIT

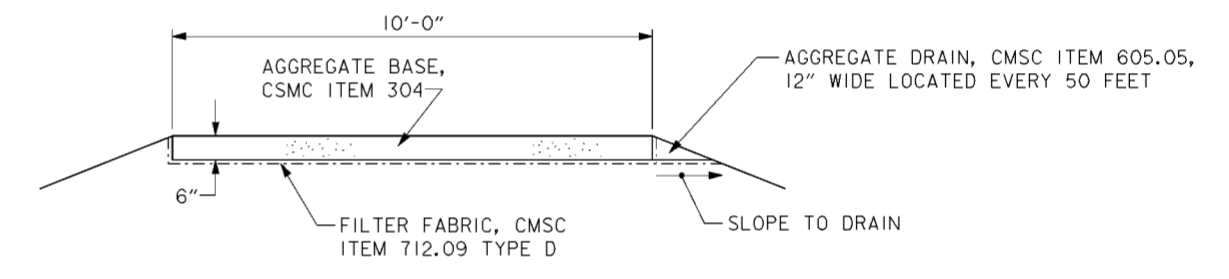
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. HALL</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>A. PUMMELL</b>	<b>FLOOD PROTECTION</b> <b>TYP. SECTIONS (1 OF 2)</b>		
Checked by: <b>P. CONROY</b>			
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/50</b>	FILENAME: PEN TABLE: 00ds01.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>1</b> of <b>2</b>



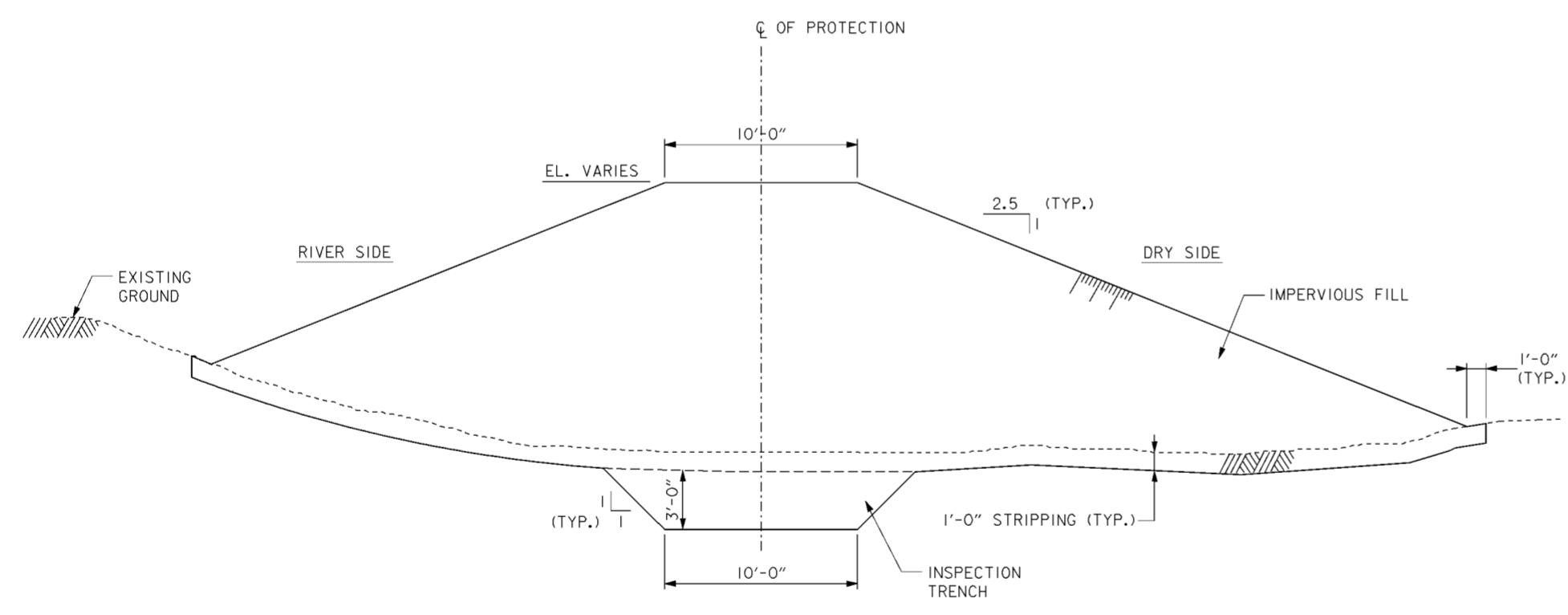
**TYPICAL LEVEE SECTION  
STA. 336+18.00 TO STA. 343+71.68**

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



**ACCESS ROAD ON LEVEE  
TYPICAL SECTION  
STA. 336+40 TO 343+71.68**

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

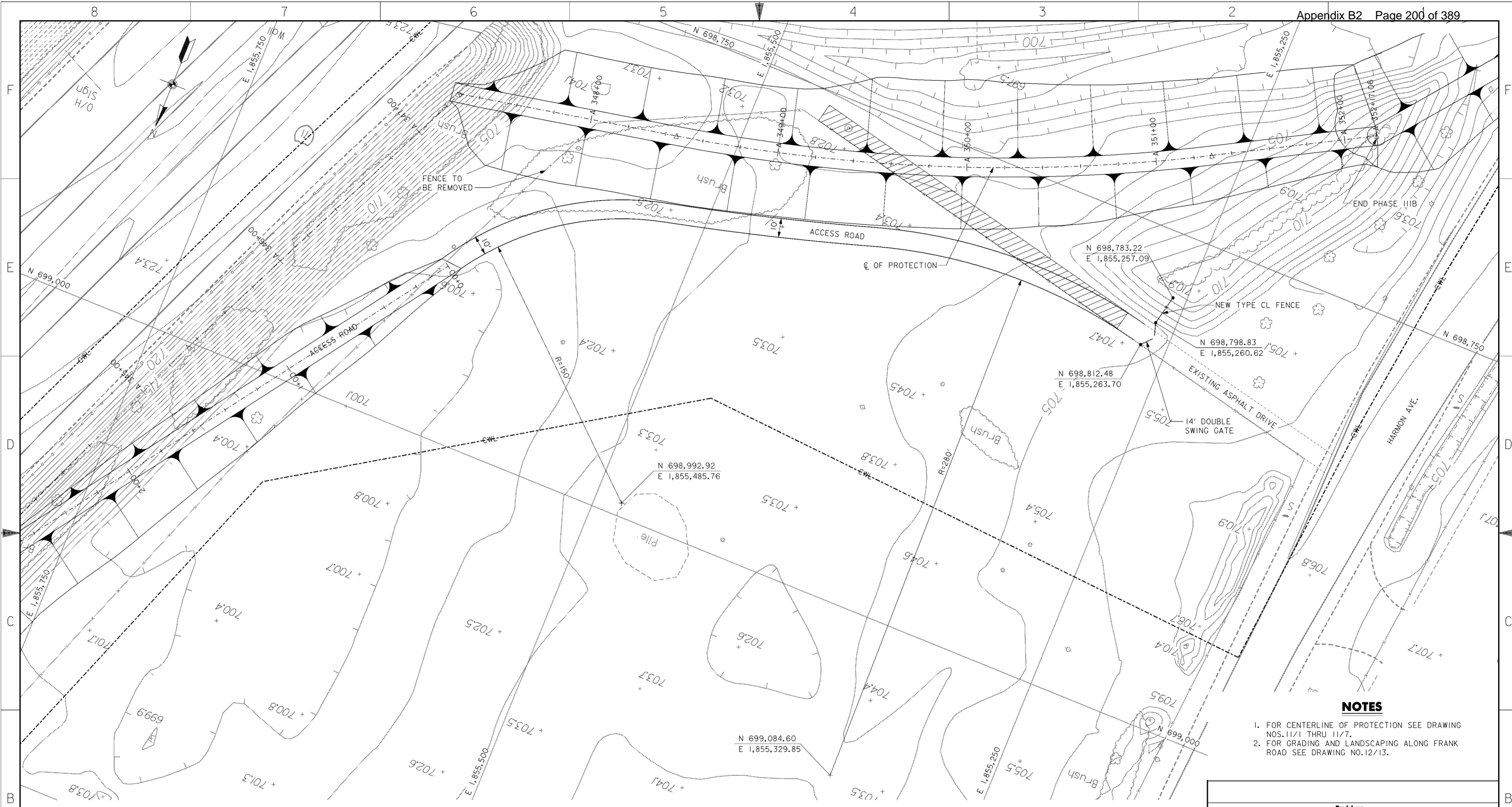


**TYPICAL LEVEE SECTION  
STA. 347+26.63 TO STA. 352+17.06**

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

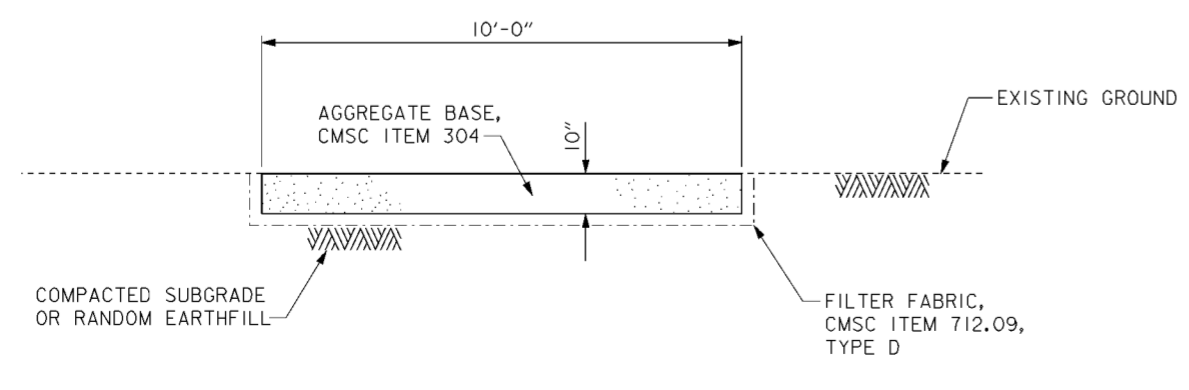
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: <b>J. HALL</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>A. PUMMELL</b>	<b>FLOOD PROTECTION TYP. SECTIONS (2 OF 2)</b>		
Checked by: <b>P. CONROY</b>			
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/51</b>	FILENAME: PEN TABLE: 00ds01.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>2</b> of <b>2</b>



**NOTES**

1. FOR CENTERLINE OF PROTECTION SEE DRAWING NOS. 11/1 THRU 11/7.
2. FOR GRADING AND LANDSCAPING ALONG FRANK ROAD SEE DRAWING NO. 12/13.



**ACCESS ROAD  
TYPICAL SECTION**

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

**PLAN**

SCALE: 1" = 20'  
0 20

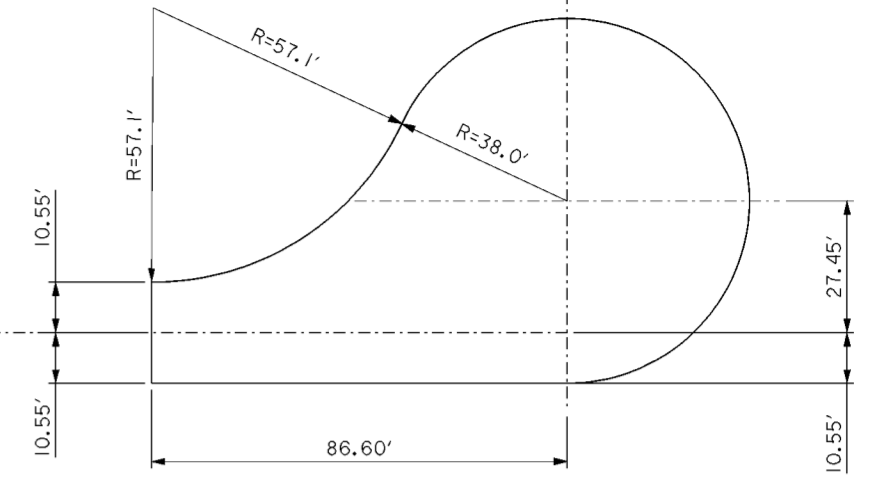
- EXISTING ASPHALT DRIVE TO BE REMOVED

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>J. HALL</b>	<b>HARMON AVENUE ACCESS ROAD</b>		
Drawn by: <b>T. MULLINS</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/52</b>	FILENAME: PIN TABLE: 00ocpl01.dgn
Checked by: <b>P. CONROY</b>	Date: <b>OCTOBER 2000</b>	Sheet 1 of 1	
Reviewed by: Approved by:	Drawing Code: <b>016-PWC-13</b>	16/52	


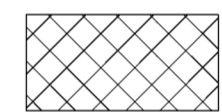
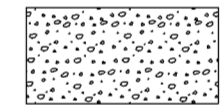




**TURN-AROUND GEOMETRY**

SCALE: 1" = 20'

**LEGEND**


-  EXISTING PAVEMENT TO BE REMOVED
-  EXISTING PAVEMENT TO BE REMOVED AND REPLACED
-  NEW PAVEMENT

**NOTES**

1. FOR STIMMEL ROAD SANITARY SEWER SEE DRAWING NO. 15.2/1 THRU 15.2/3.
2. FOR EXISTING SANITARY SEWER LINE ABANDONMENT SEE DRAWING NO. 15.2/2.
3. FOR STIMMEL ROAD AND GENERAL MAINTENANCE OF TRAFFIC NOTES SEE DRAWING NOS. 0/4 AND 92/10.
4. FOR PAVEMENT REMOVAL AND REPLACEMENT TYPICAL SECTION AND TYPICAL PAVEMENT SECTION DETAILS SEE DRAWING NO. 15.2/12.

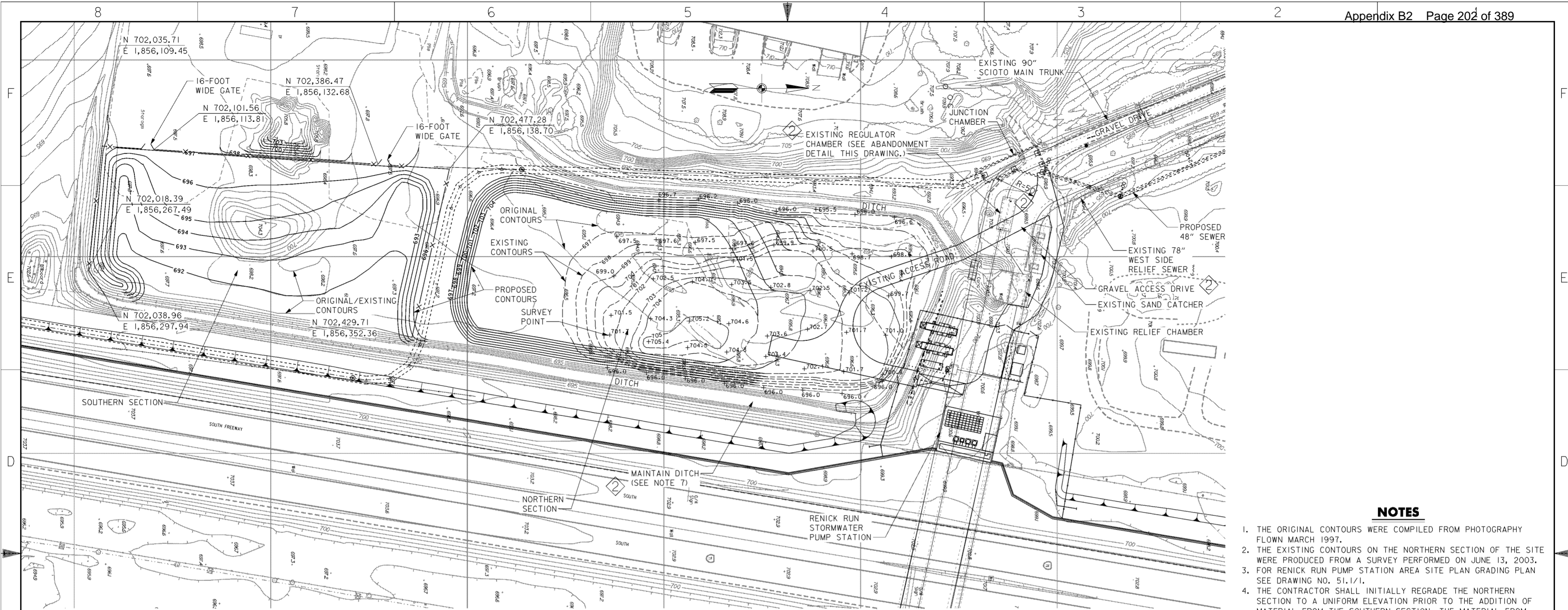
Revisions			
Symbol	Descriptions	Date	Approved

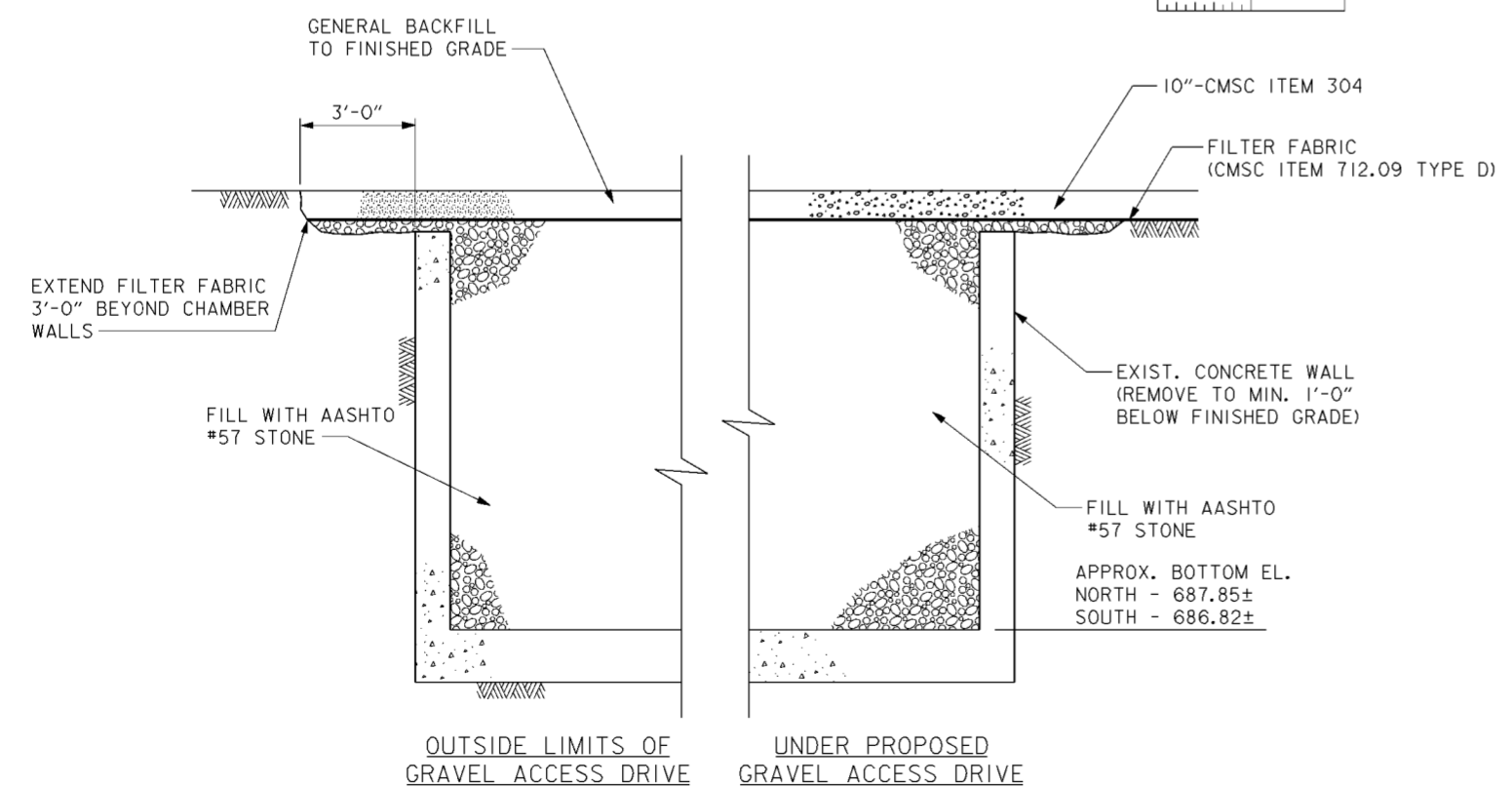
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	 J. HALL T. MULLINS P. CONROY	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Designed by: Drawn by: Checked by: Reviewed by: Approved by:	Scale: AS SHOWN Date: OCTOBER 2000 Drawing Code: 016-PWC-13	Sheet reference number: 16/53	FILENAME: PIN TABLE: 00ocpl02.dgn

**PLAN**

SCALE: 1" = 20'



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



**REGULATOR CHAMBER ABANDONMENT DETAIL**

SCALE: 3/8" = 1'-0"  
12" 0 2 4 5'

- NOTES**
1. THE ORIGINAL CONTOURS WERE COMPILED FROM PHOTOGRAPHY FLOWN MARCH 1997.
  2. THE EXISTING CONTOURS ON THE NORTHERN SECTION OF THE SITE WERE PRODUCED FROM A SURVEY PERFORMED ON JUNE 13, 2003.
  3. FOR RENICK RUN PUMP STATION AREA SITE PLAN GRADING PLAN SEE DRAWING NO. 51.1/1.
  4. THE CONTRACTOR SHALL INITIALLY REGRADE THE NORTHERN SECTION TO A UNIFORM ELEVATION PRIOR TO THE ADDITION OF MATERIAL FROM THE SOUTHERN SECTION. THE MATERIAL FROM THE SOUTHERN SECTION SHALL THEN BE EXCAVATED TO THE FINAL GRADES SHOWN. THIS MATERIAL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH CMSC ITEM 203.
  5. THE CONTRACTOR SHALL FURNISH AND INSTALL 60-INCH HIGH CHAIN LINK FENCE, TYPE "CL" PER CSMC 607 AROUND SOUTHERN SECTION. GATES SHALL MATCH FENCE.
  6. THE CONTRACTOR SHALL FURNISH AND INSTALL 6 "NO DUMPING" SIGNS AROUND THE SOUTHERN SECTION. ONE SIGN SHOULD BE LOCATED ADJACENT TO EACH GATE, ON NORTH AND SOUTH SIDE OF POND AND TWO ON EAST SIDE OF POND.
  7. THE CONTRACTOR SHALL CLEAN EXISTING DITCH OF DEBRIS, BRUSH, TREES AND OTHER VEGETATION BETWEEN THE TOPS OF EACH BANK. TREES SHALL BE CUT TO FINISHED GRADE BUT DO NOT REQUIRE REMOVAL OF BURIED ROOTS/STUMPS UNLESS NECESSARY FOR SHAPING OF DITCH CHANNEL AND SIDE SLOPES. EXCAVATE/FILL DITCH BOTTOM TO PROVIDE A MINIMUM 5-FOOT WIDE BASE WITH AN APPROXIMATE SLOPE OF 0.05% TOWARD THE TWO EXISTING OUTLET SEWERS.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REV. BY CONTRACT MODIFICATION LETTER MC088	8/04	B.W.T.
◇	ADDED BY CONTRACT MODIFICATION LETTER MC060	9/03	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>M. RUDISELL</b>	<b>SCIOTO RIVER</b> COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>RENICK RUN AREA</b> <b>GRADING PLAN</b>	
Drawn by: <b>T. MULLINS</b>		
Checked by: <b>P. CONROY</b>		
Reviewed by:		
Approved by:	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>16/54A</b> FILENAME: 00p1gp01.dgn PIN TABLE: Sheet 1 of 1

F

F

E

E

D

D

C

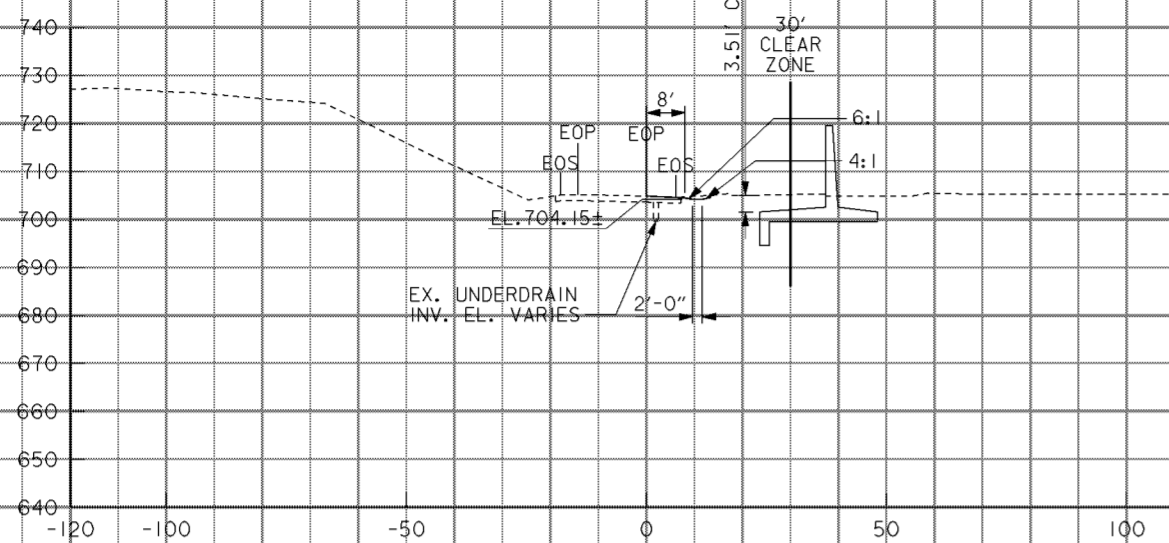
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B

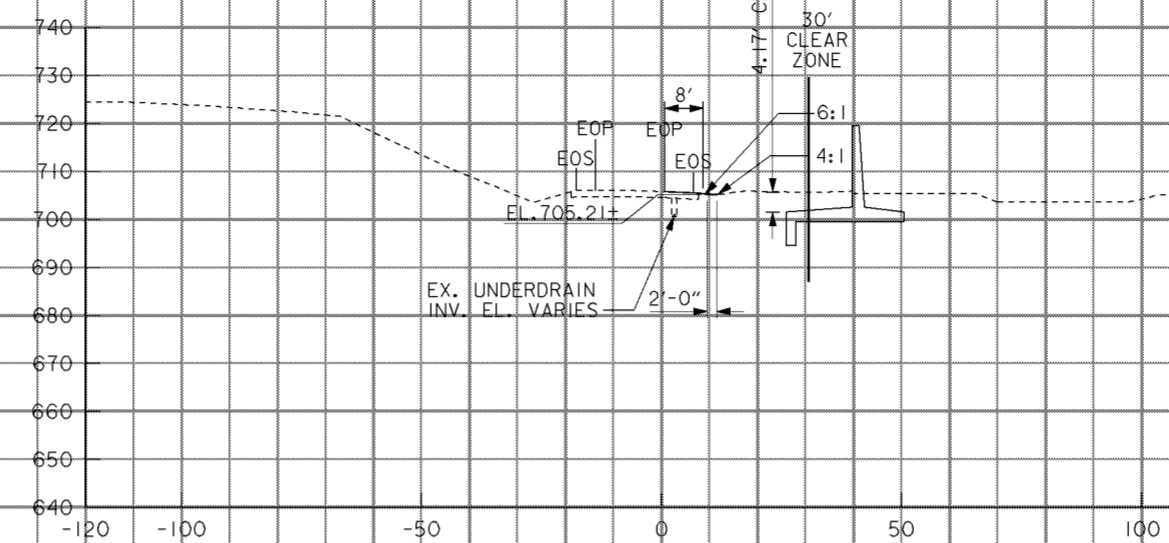
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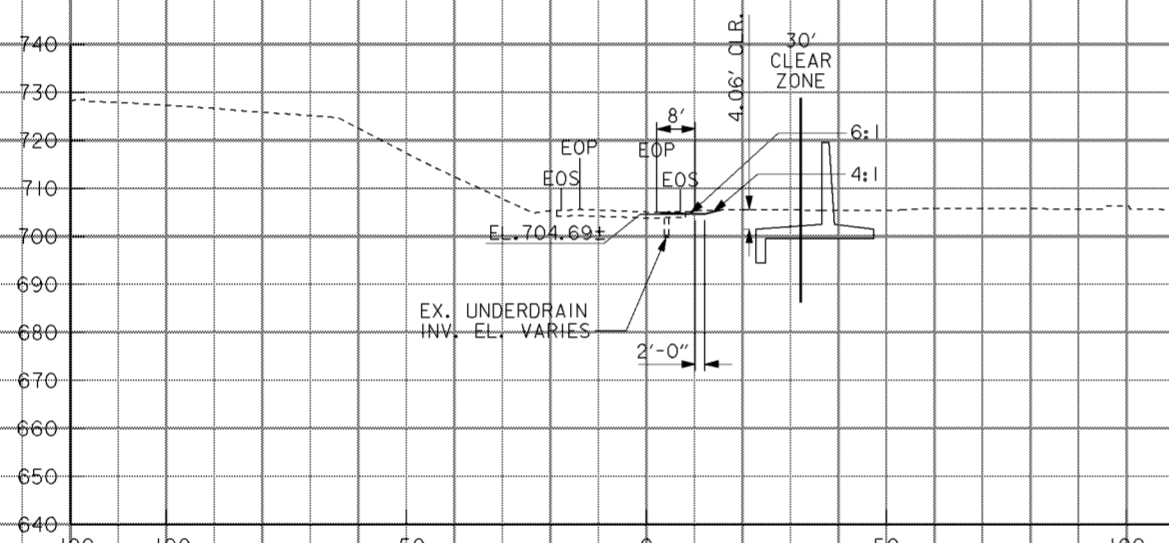
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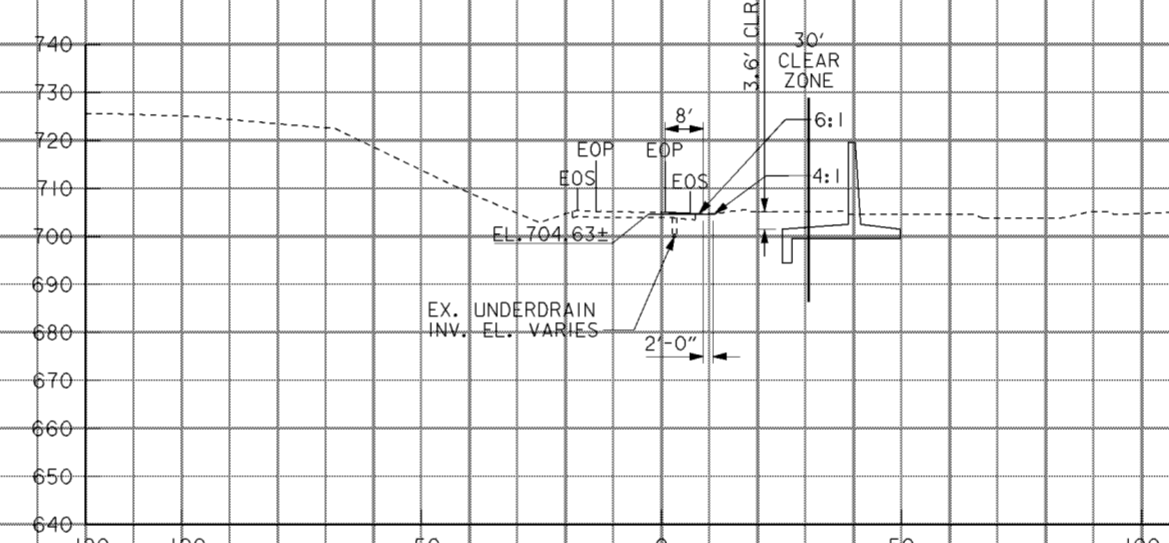
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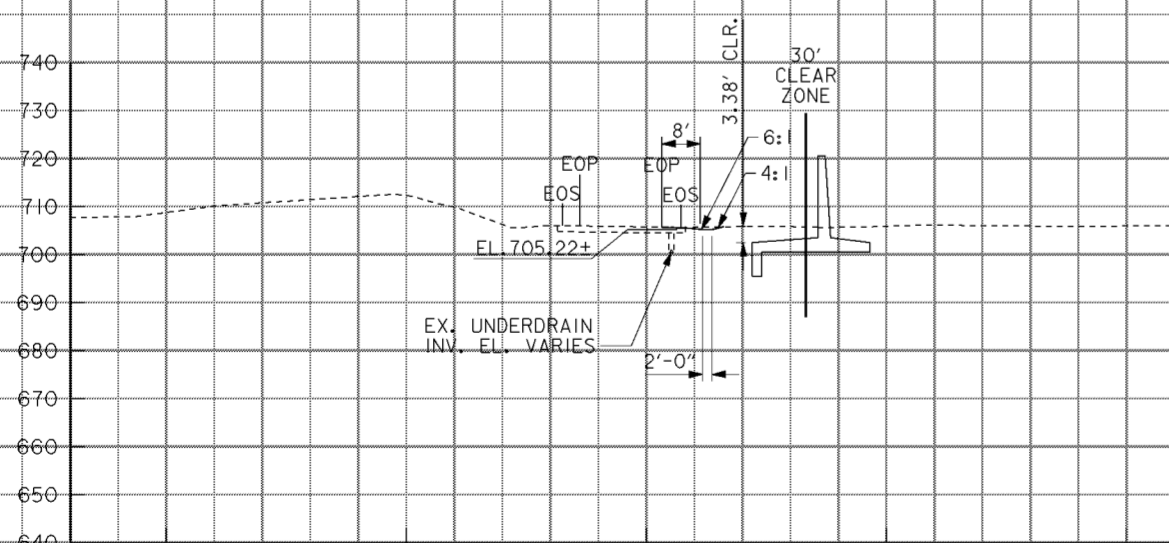
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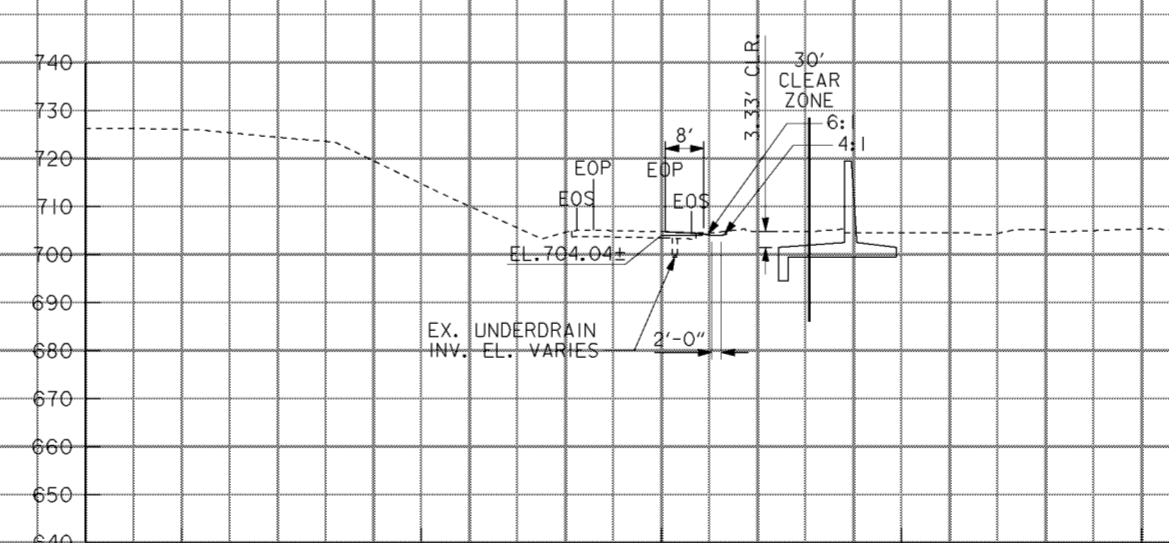
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101+00



99+00

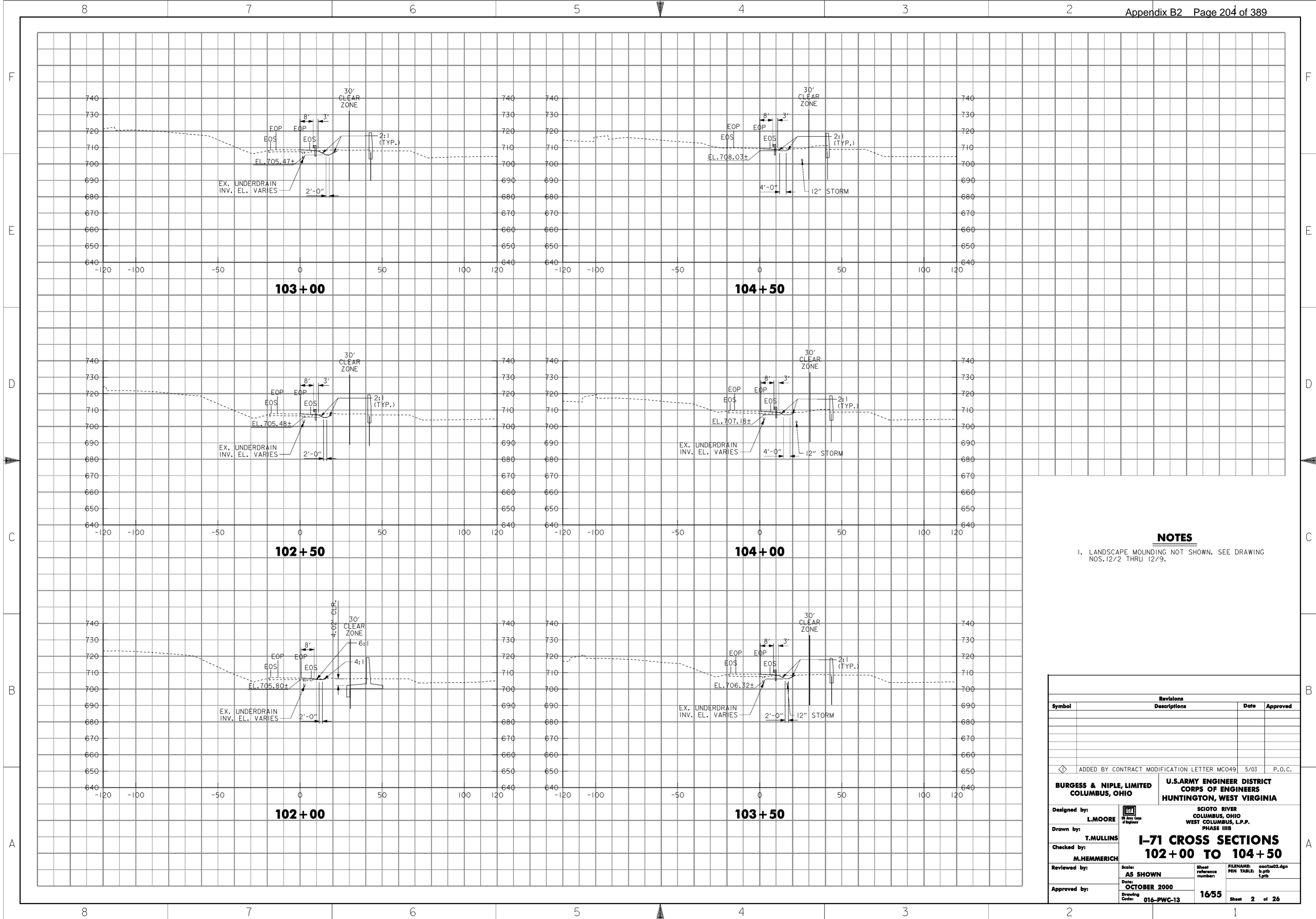


100+50

**NOTES**

- 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA	
Designed by: <b>L. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>99+00 TO 101+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/54</b>	FILENAME: PEN TABLE: aao12a01.dgn 0.tbl 1.plt
Reviewed by: <b>M. HEMMERICH</b>	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	
Approved by: <b>M. HEMMERICH</b>	Sheet 1 of 26		



**NOTES**

1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.

**BURGESS & NIPE, LIMITED COLUMBUS, OHIO**

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

DESIGNED BY: **L. MOORE**

DRAWN BY: **T. MULLINS**

CHECKED BY: **M. HEMMERICH**

REVIEWED BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

**SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B**

**I-71 CROSS SECTIONS 102+00 TO 104+50**

Scale: **AS SHOWN**

Date: **OCTOBER 2000**

Drawing Code: **016-PWC-13**

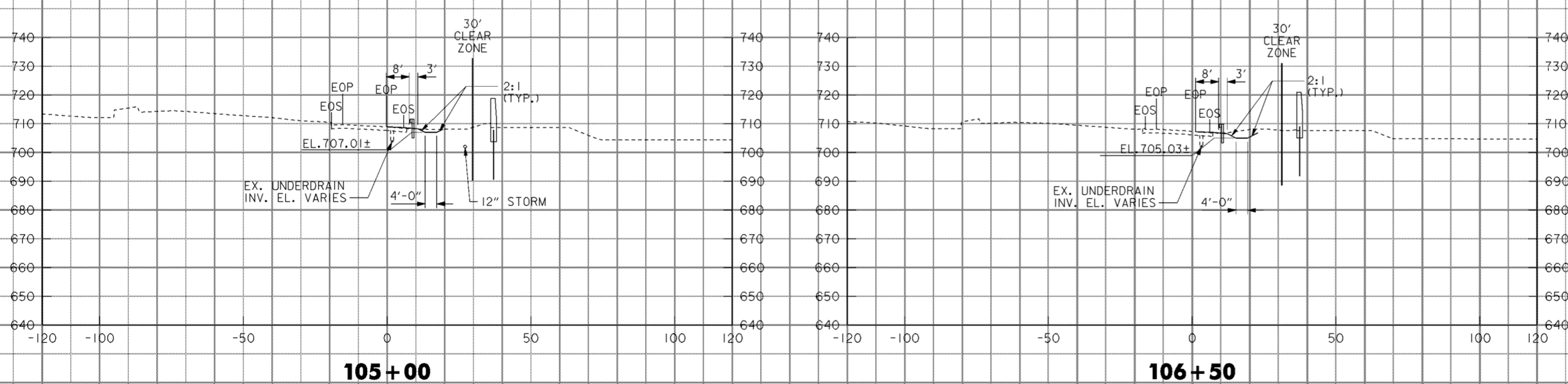
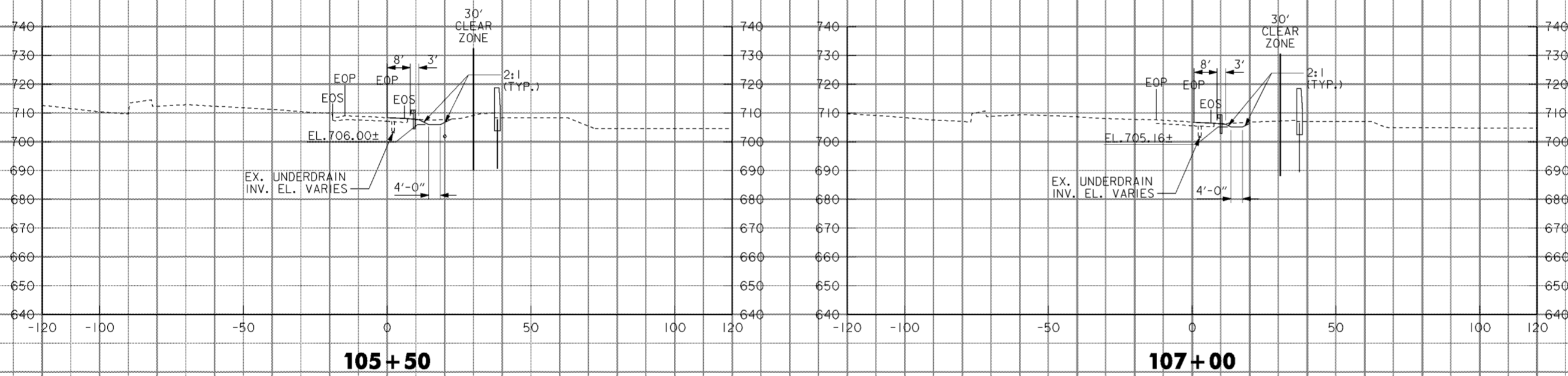
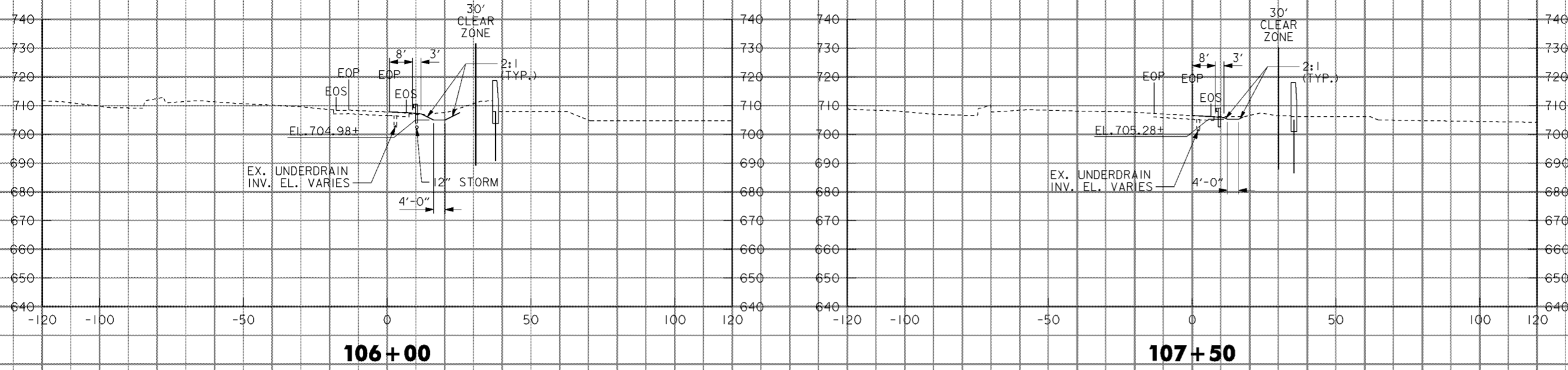
Sheet reference number: **1655**

FILENAME: **aao1a02.dgn**


PEN TABLE: **p.tbl**

Sheet **2** of **26**

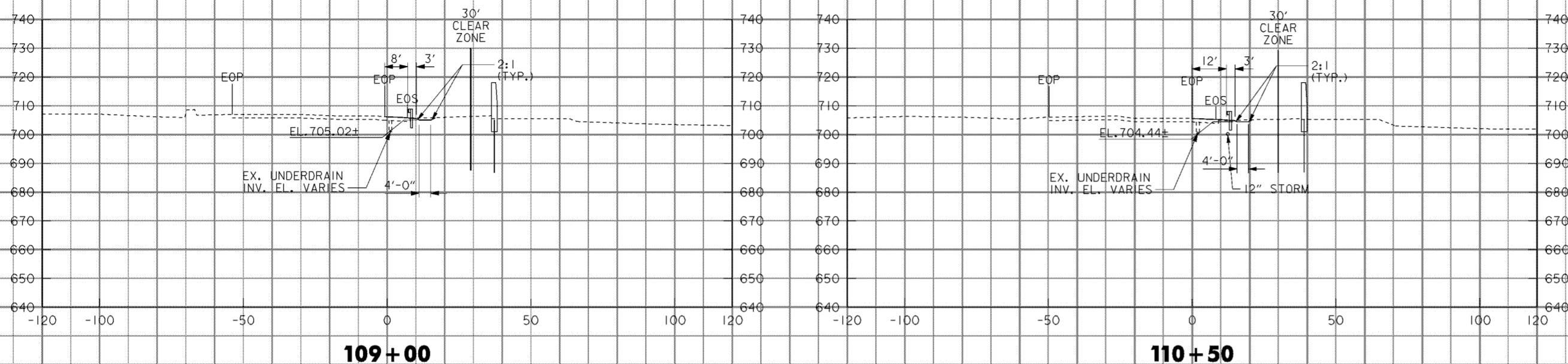
**WORK AS CONSTRUCTED**



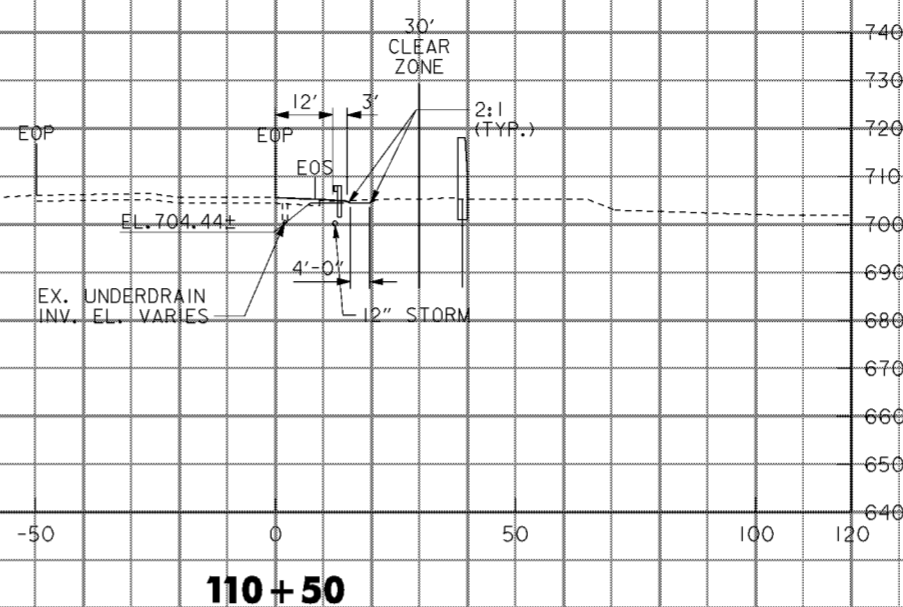
**NOTES**  
 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions				
Symbol	Descriptions	Date	Approved	
◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.				
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: <b>L. MOORE</b>	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	<b>I-71 CROSS SECTIONS</b> <b>105+00 TO 107+50</b>		
Drawn by: <b>T. MULLINS</b>				
Checked by: <b>M. HEMMERICH</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/56</b>	FILENAME: aao2a03.dgn
Reviewed by:		Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	PEN TABLE: p.tbl l.tbl
Approved by:			Sheet 3 of 26	

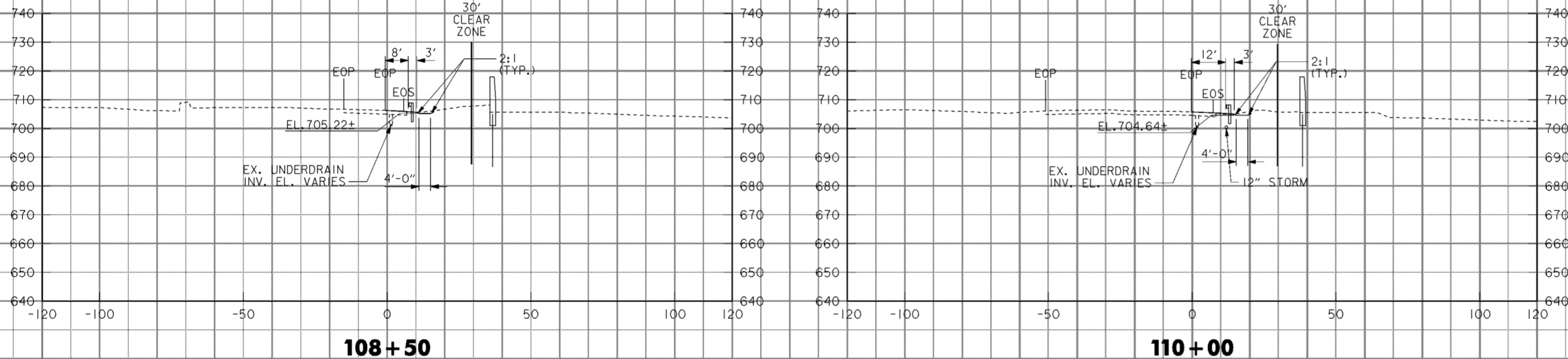
**WORK AS CONSTRUCTED**



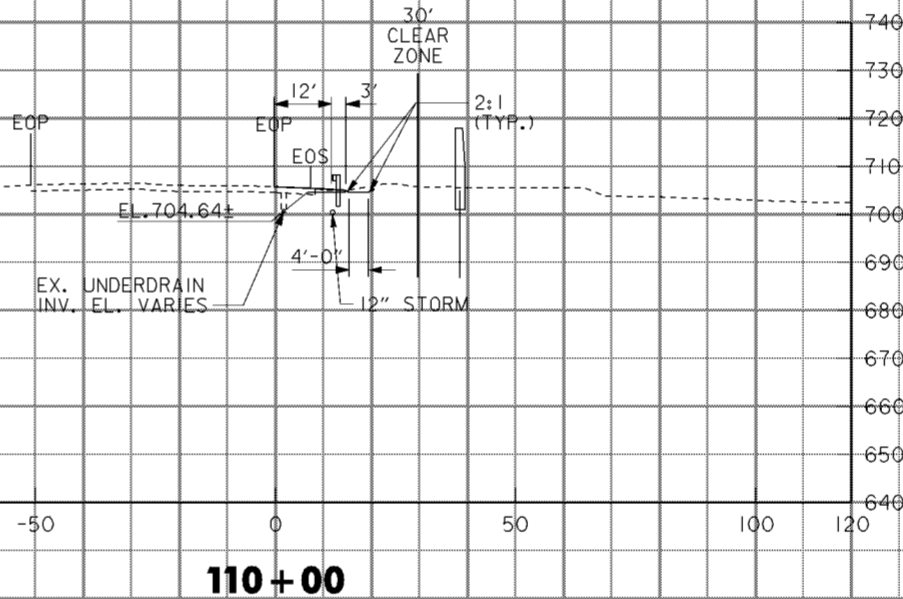
109+00



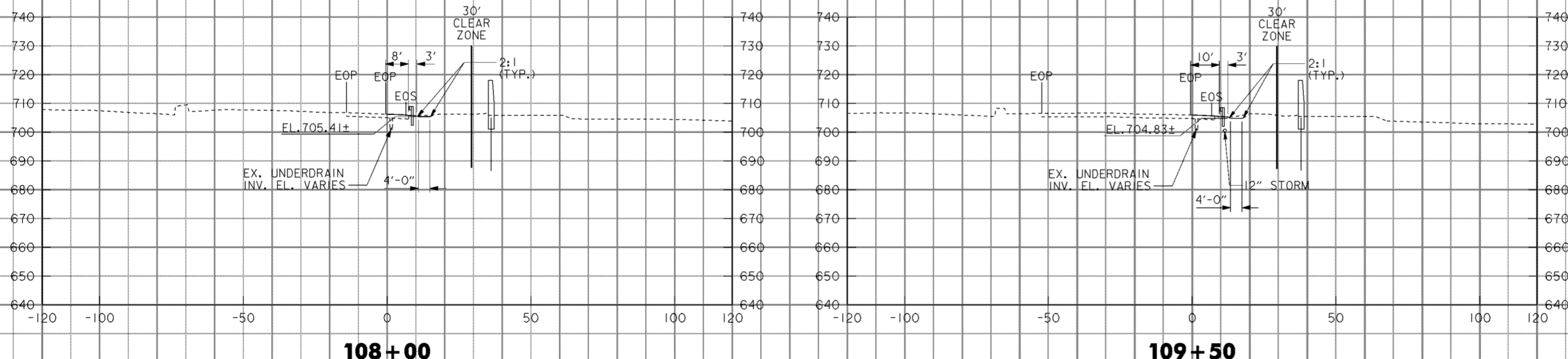
110+50



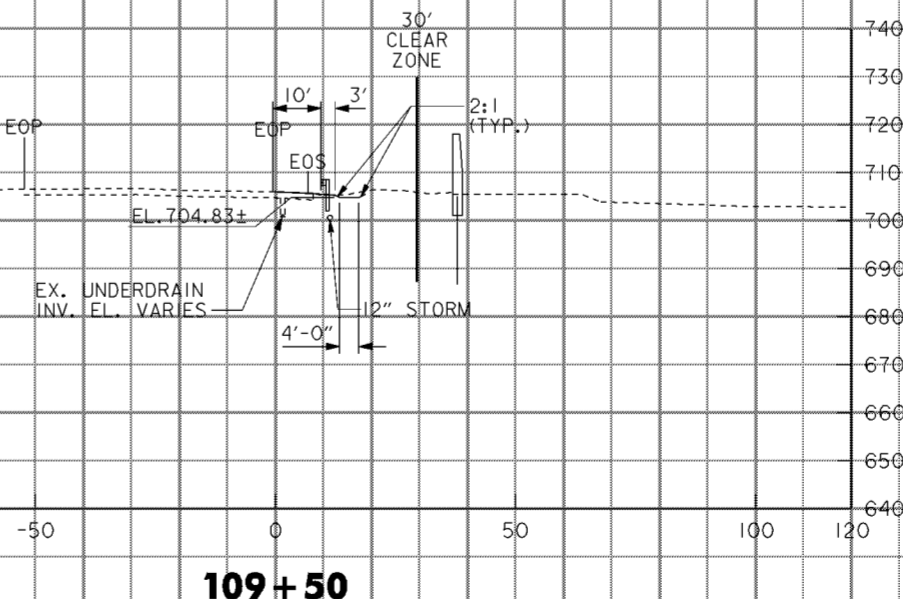
108+50



110+00



108+00

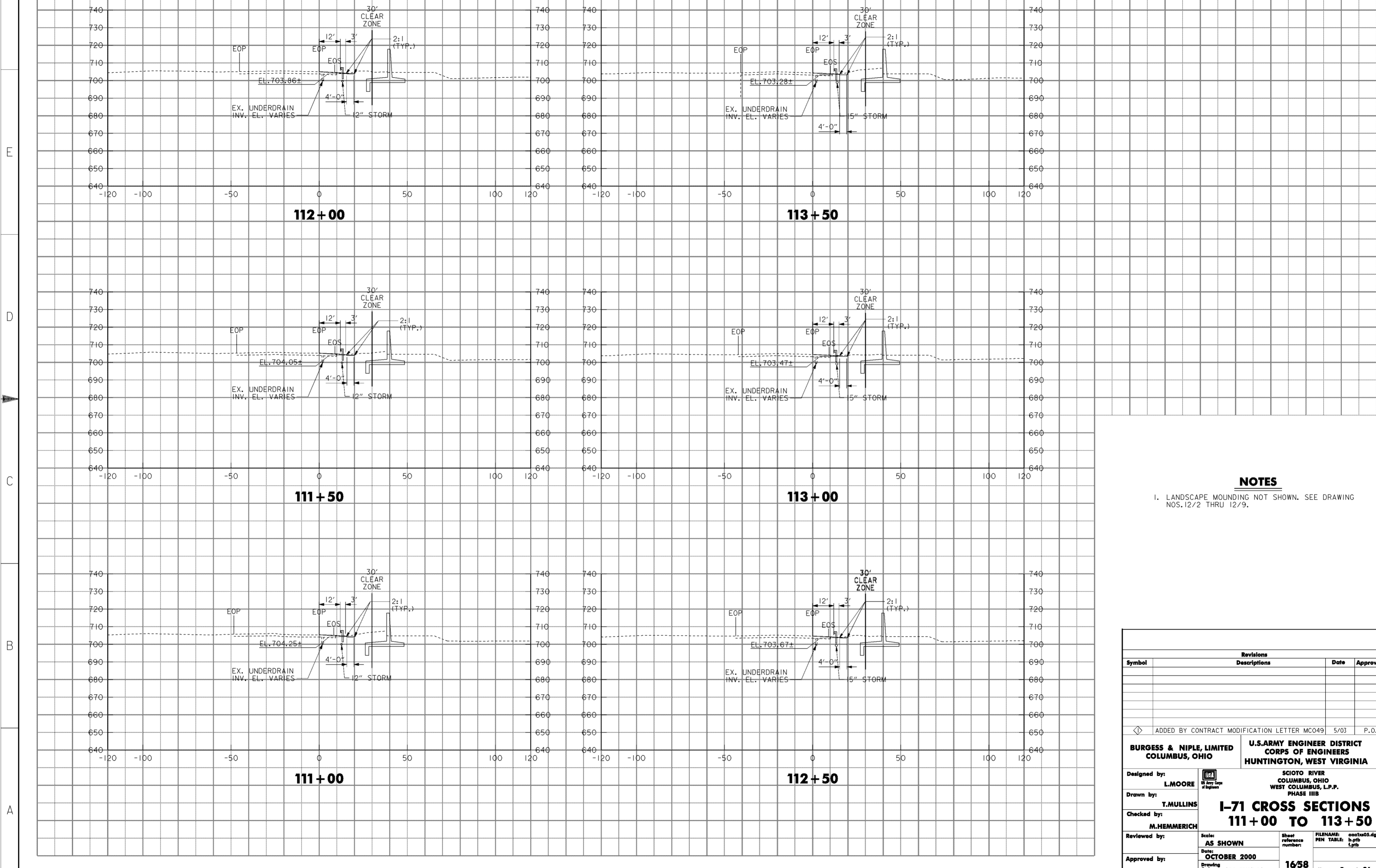


109+50

NOTES

1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

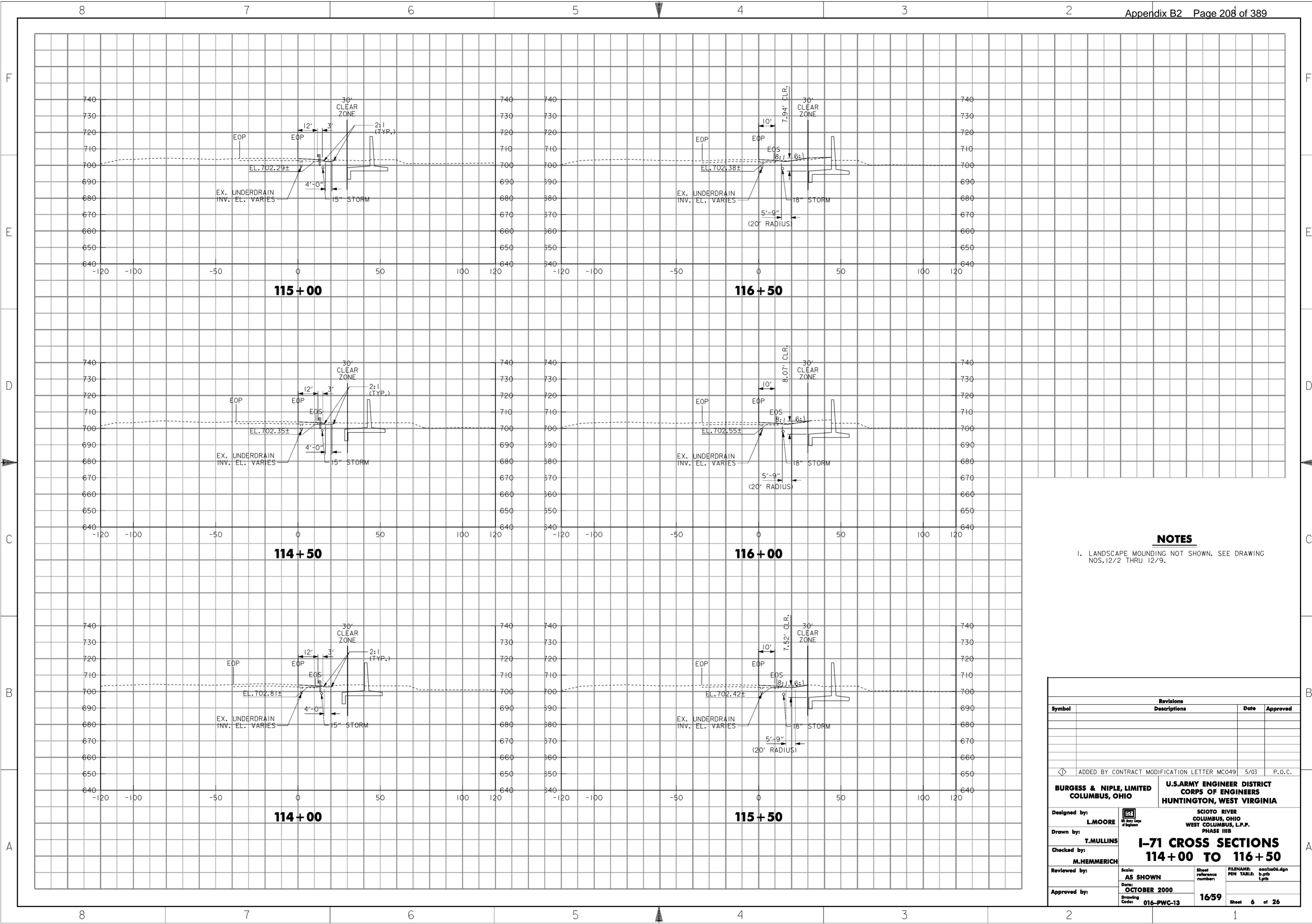
Revisions			
Symbol	Descriptions	Date	Approved
◀ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA	
Designed by: <b>L. MOORE</b>	<div style="text-align: center;"> <b>SCIO TO RIVER</b>  <b>COLUMBUS, OHIO</b>  <b>WEST COLUMBUS, L.P.P.</b>  <b>PHASE III B</b> </div> <div style="text-align: center;"> <b>I-71 CROSS SECTIONS</b>  <b>108+00 TO 110+50</b> </div>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>M. HEMMERICH</b>			
Reviewed by: <b>AS SHOWN</b>			
Approved by: <b>OCTOBER 2000</b>			
Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/57</b>	FILENAME: aao2a04.dgn	PEN TABLE: p.tbl l.plt
Drawing Code: <b>016-PWC-13</b>	<b>16/57</b>	Sheet <b>4</b> of <b>26</b>	



**NOTES**

- 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
Ⓓ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>L. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>111+00 TO 113+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/58</b>	FILENAME: PEN TABLE: <b>aa012a05.dgn</b> <b>0.tbl</b> <b>1.plt</b>
Reviewed by: _____	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>5</b> of <b>26</b>
Approved by: _____			

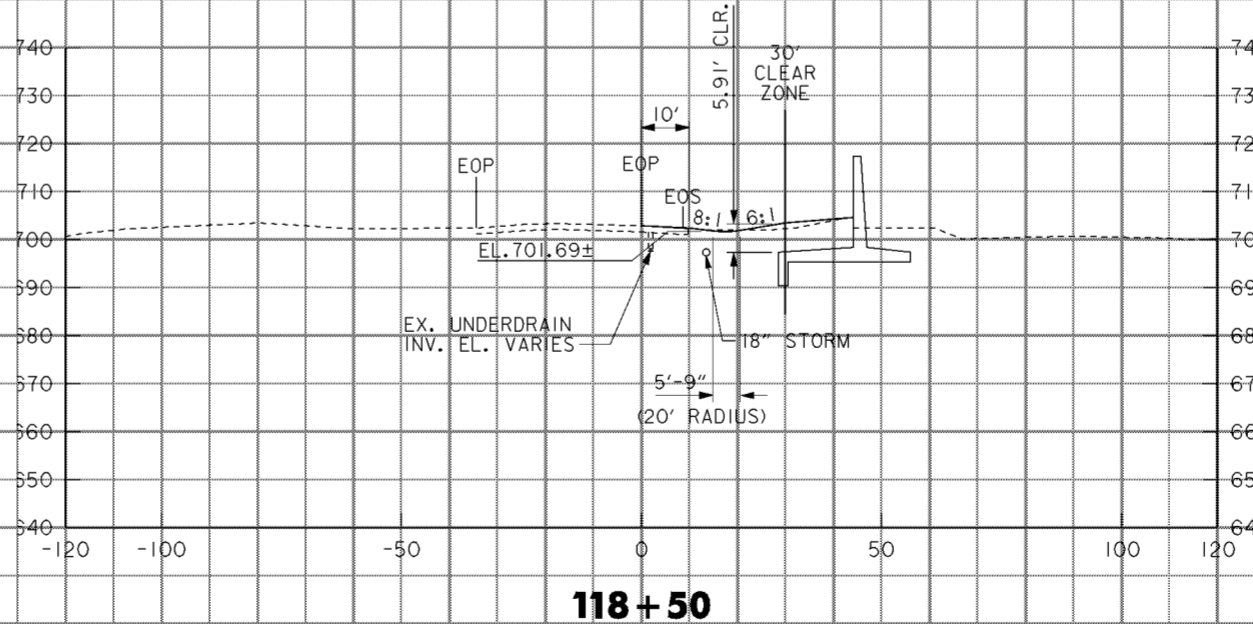
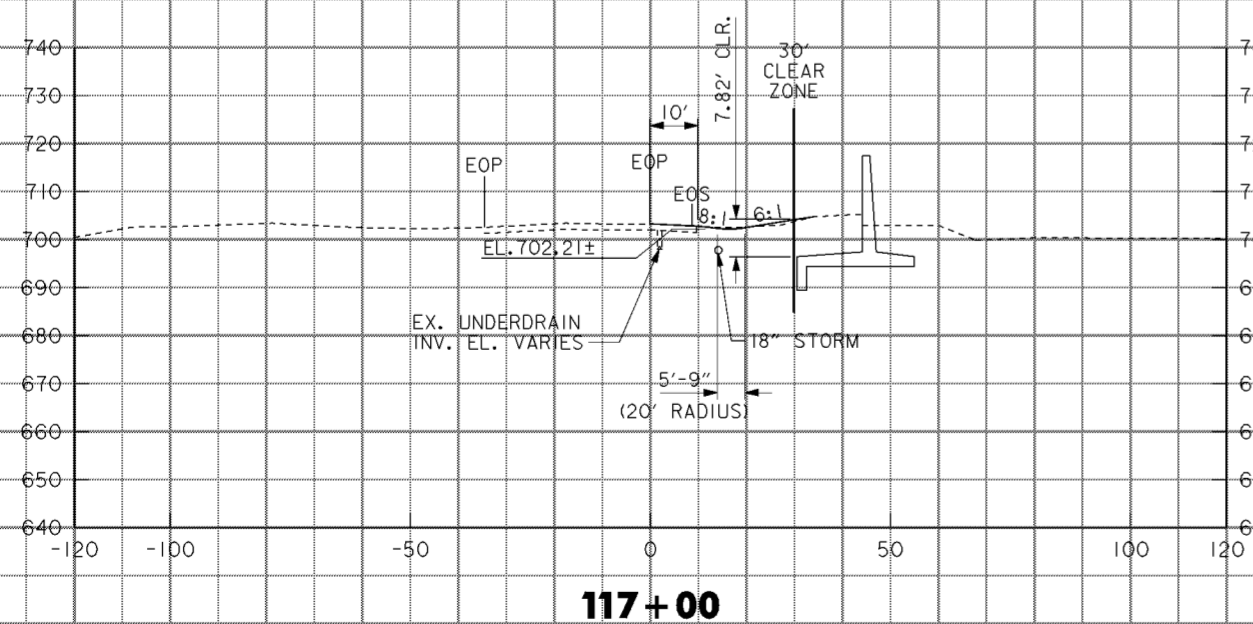
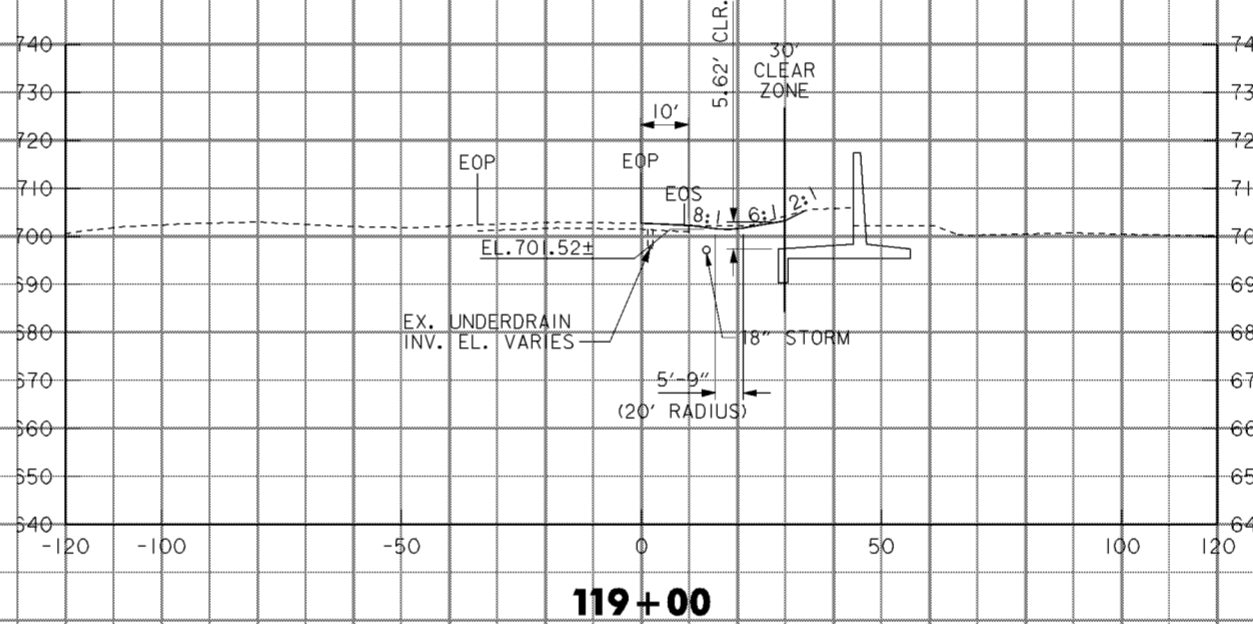
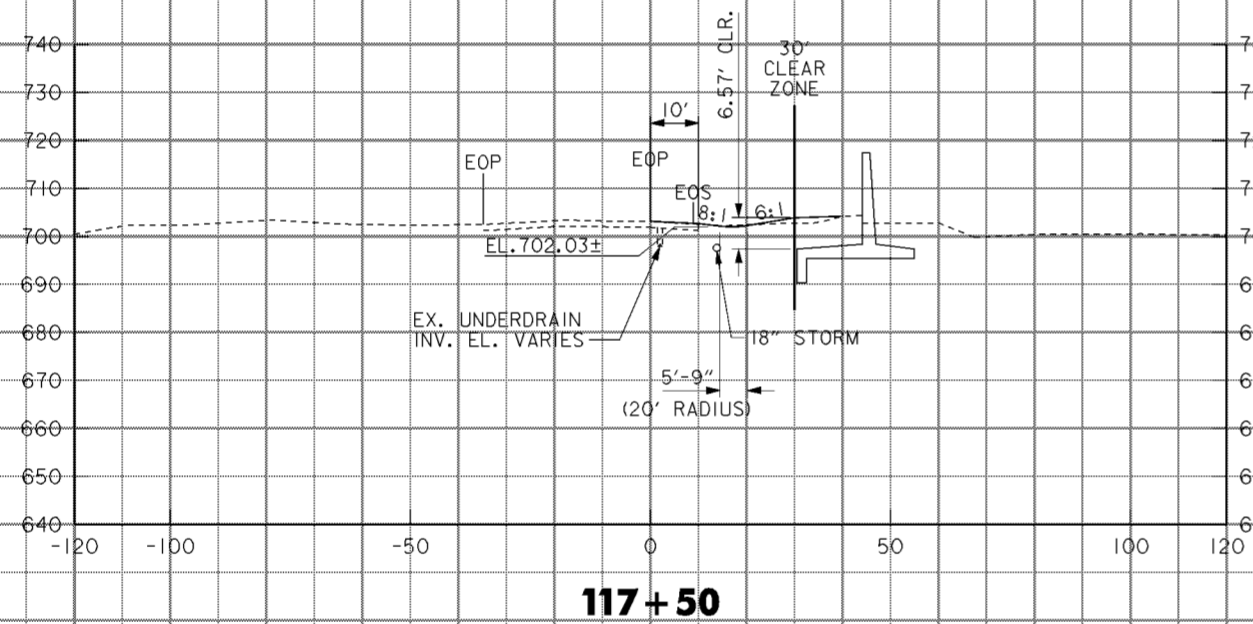
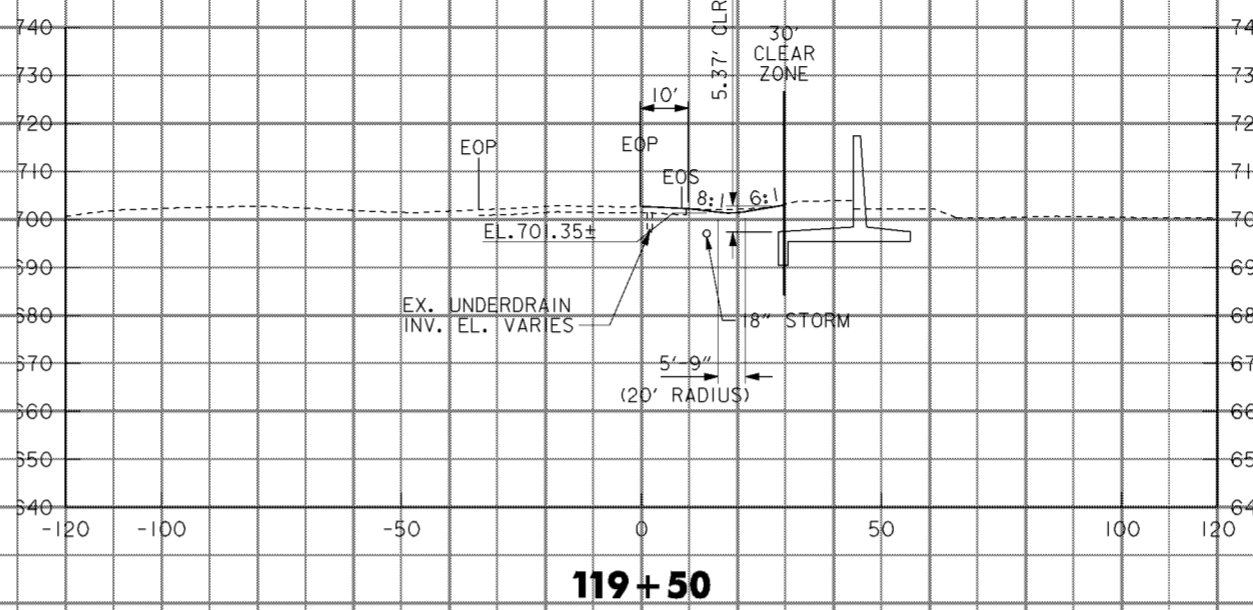
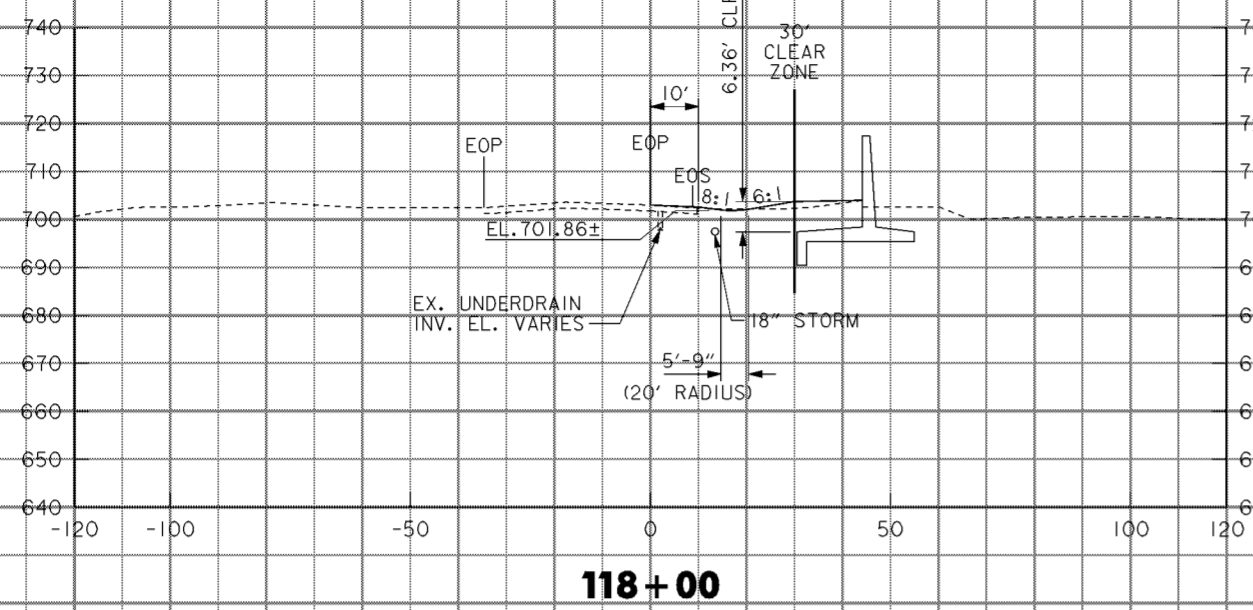


**NOTES**

1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>L. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>114+00 TO 116+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/59</b>	FILENAME: PEN TABLE: aao12a06.dgn b.tbl 1.plt
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>6</b> of <b>26</b>
Approved by:	WORK AS CONSTRUCTED		





**NOTES**

1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions				
Symbol	Descriptions	Date	Approved	
◇ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.				
BURGESS & NIPL, LIMITED COLUMBUS, OHIO		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: <b>L. MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>		<b>I-71 CROSS SECTIONS 117+00 TO 119+50</b>		
Checked by: <b>M. HEMMERICH</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/60</b>	FILENAME: PEN TABLE: <b>aa02a07.dgn b.tbl l.tbl</b>
Reviewed by:		Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 7 of 26
Approved by:				

**WORK AS CONSTRUCTED**

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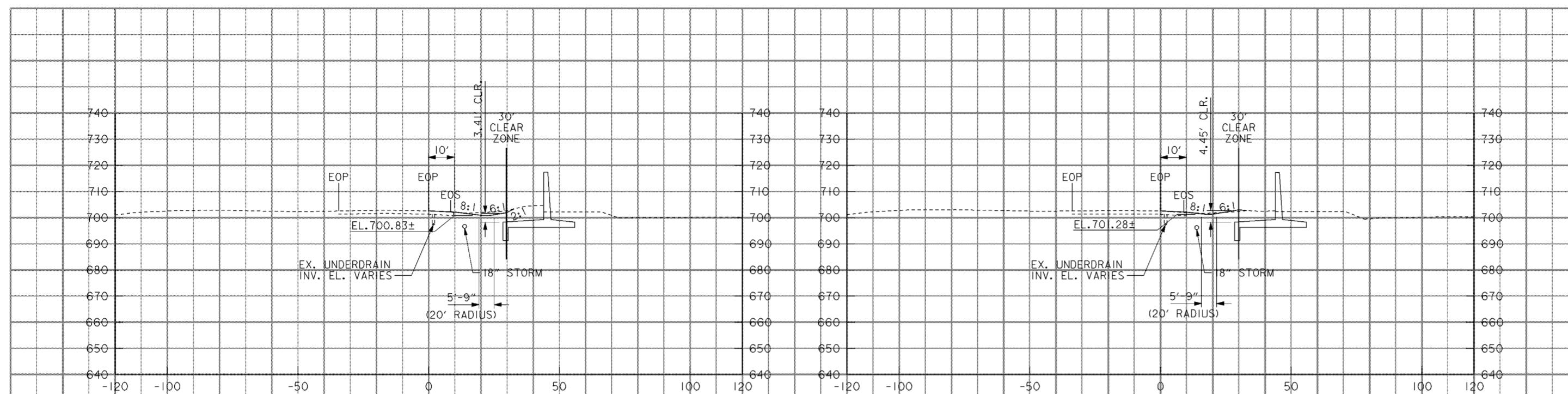
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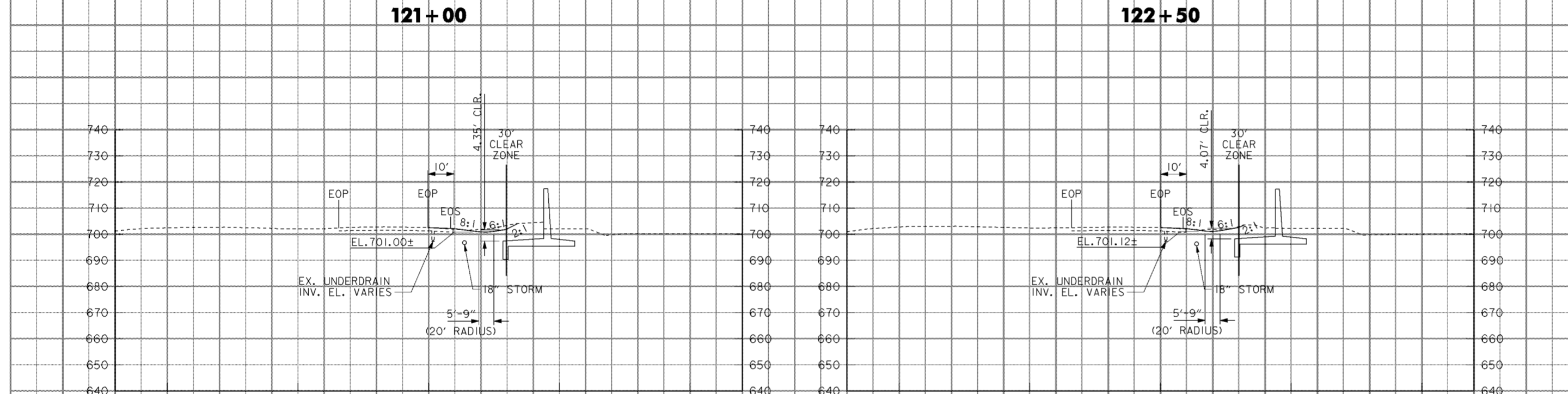
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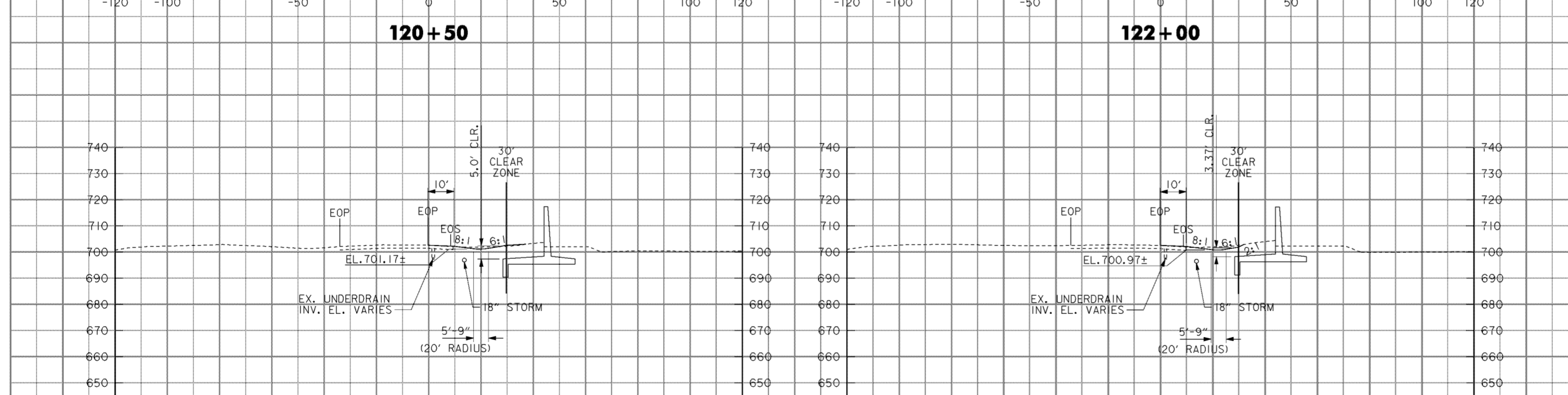
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**121+00**



**122+50**



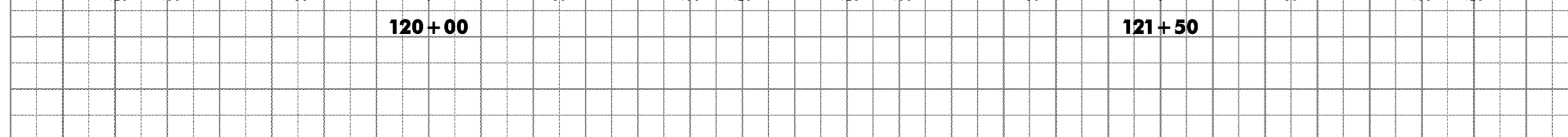
**120+50**



**122+00**



**120+00**



**121+50**

**NOTES**

- LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◊ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>L. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>120+00 TO 122+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>	Sheet reference numbers: <b>16/61</b>	FILENAME: PEN TABLE: aao12x08.dgn b.tbl l.plt
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>8</b> of <b>26</b>
Approved by:			

**WORK AS CONSTRUCTED**

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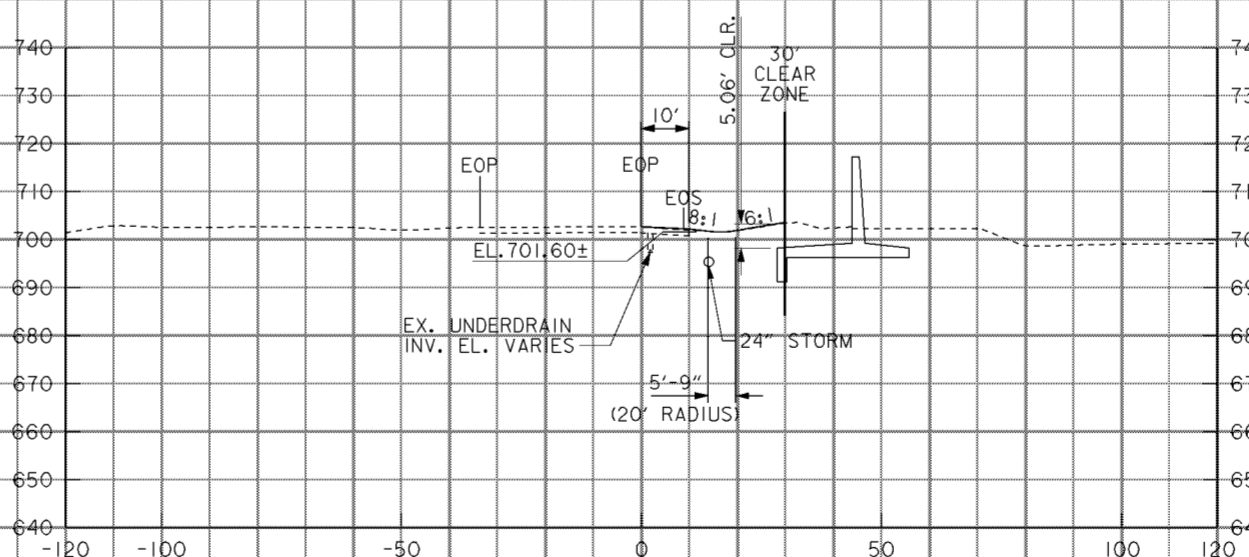
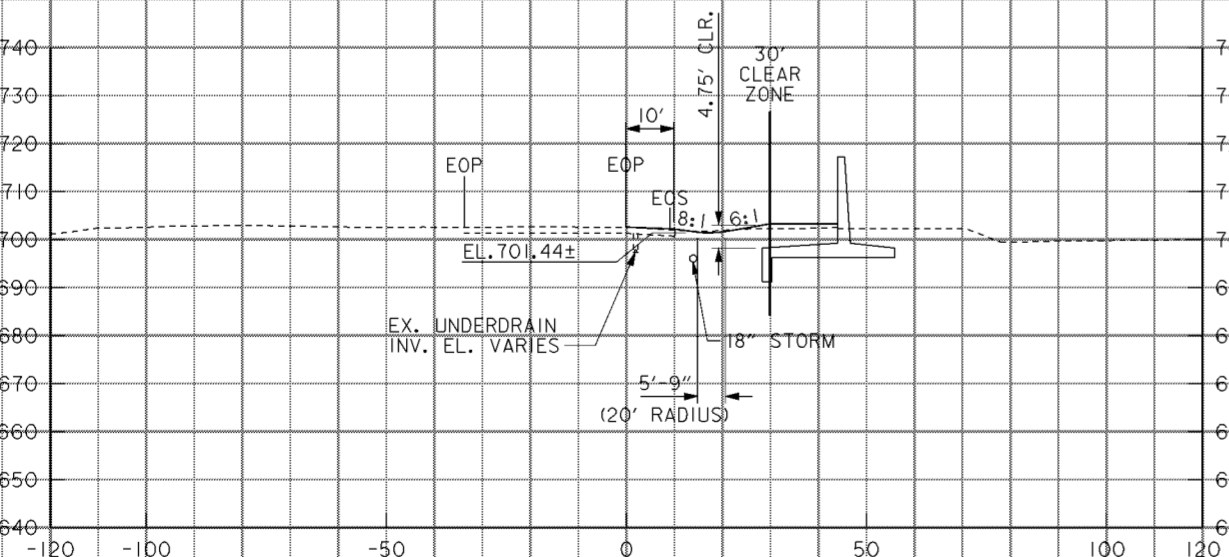
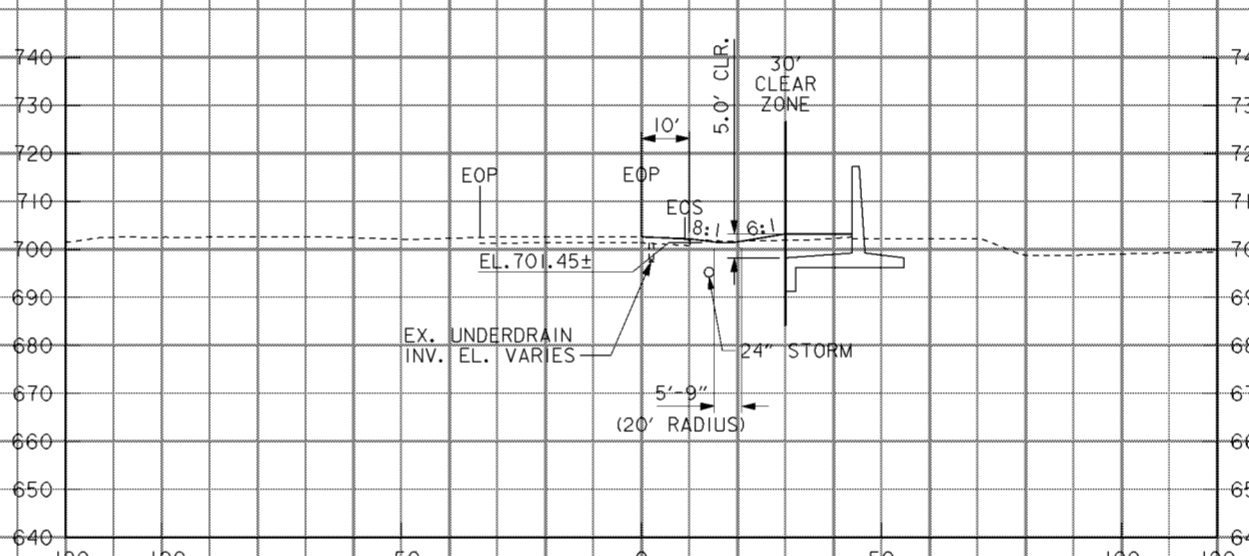
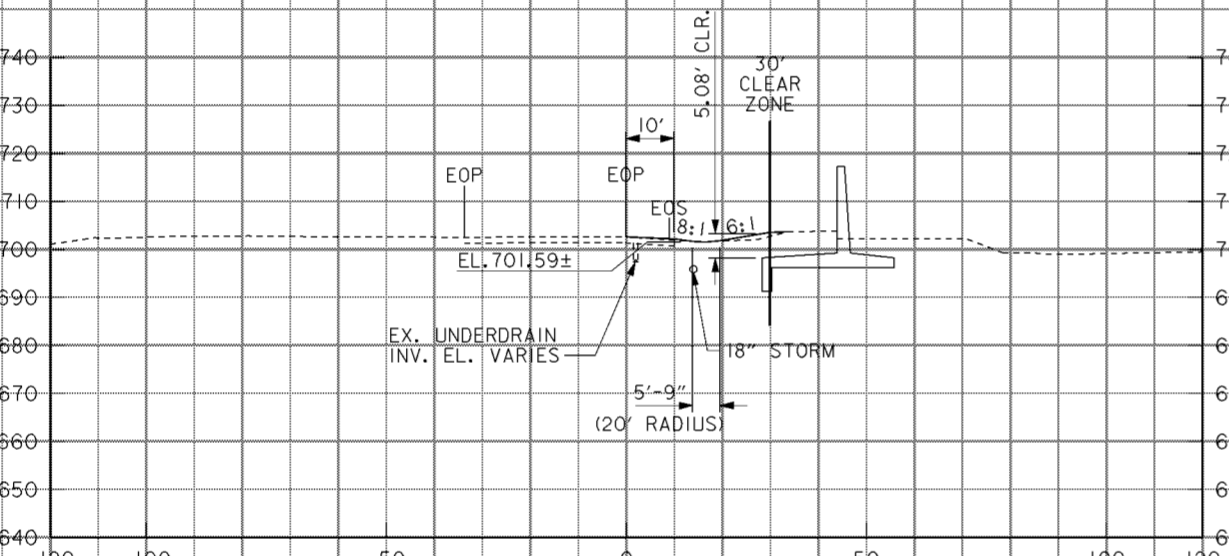
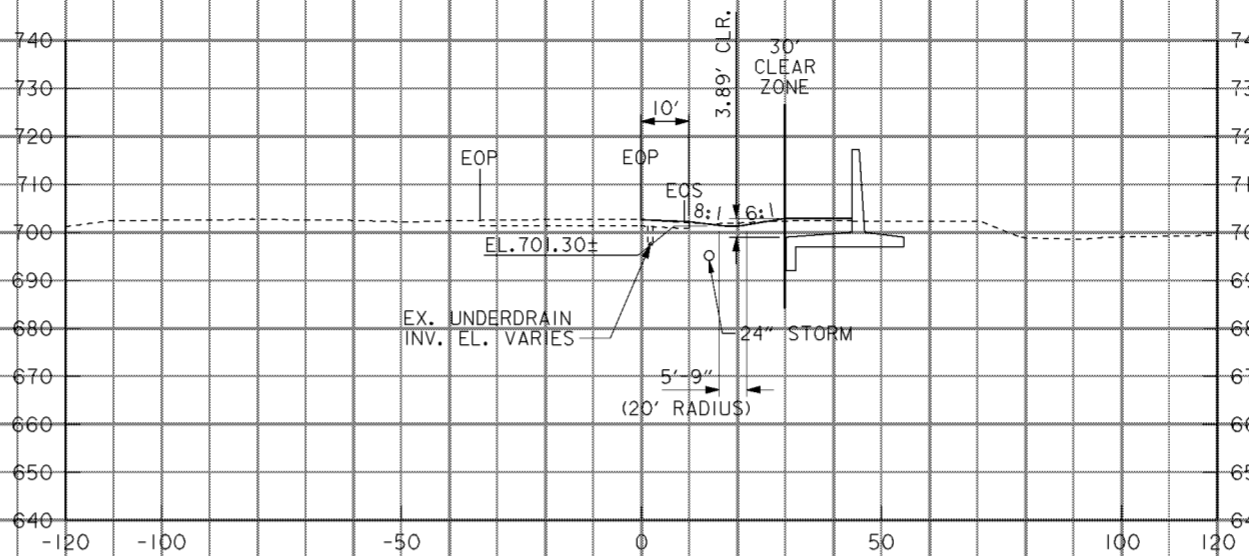
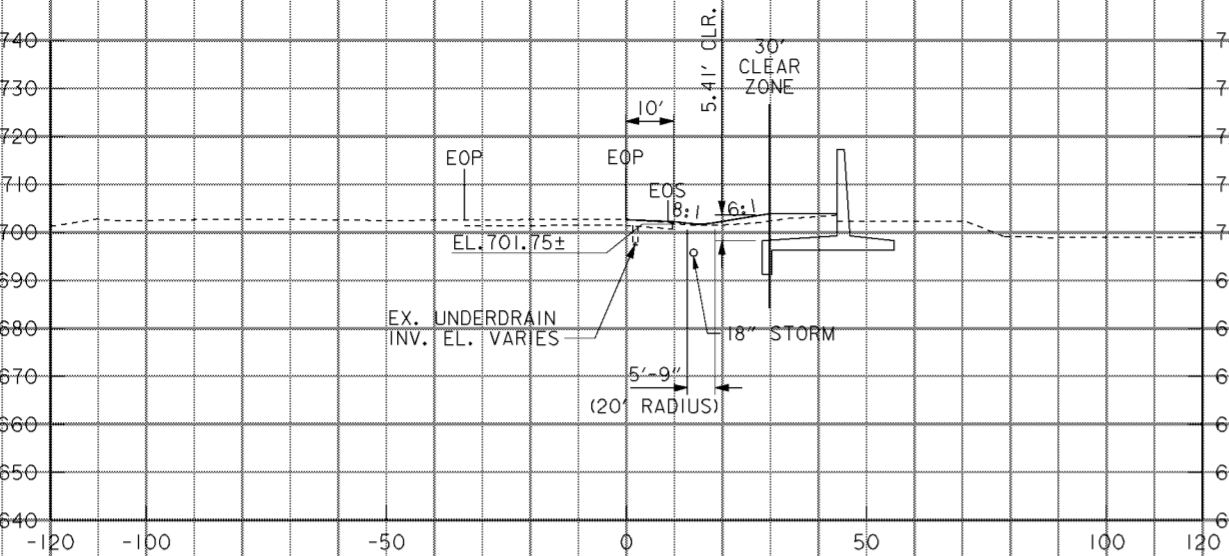
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**NOTES**

1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
⚡ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>L. MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>		<b>I-71 CROSS SECTIONS</b> <b>123+00 TO 125+50</b>	
Checked by: <b>M. HEMMERICH</b>		Scale: <b>AS SHOWN</b>	Sheet reference numbers: <b>16/62</b>
Reviewed by: (Signature)	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 9 of 26
Approved by: (Signature)	WORK AS CONSTRUCTED		

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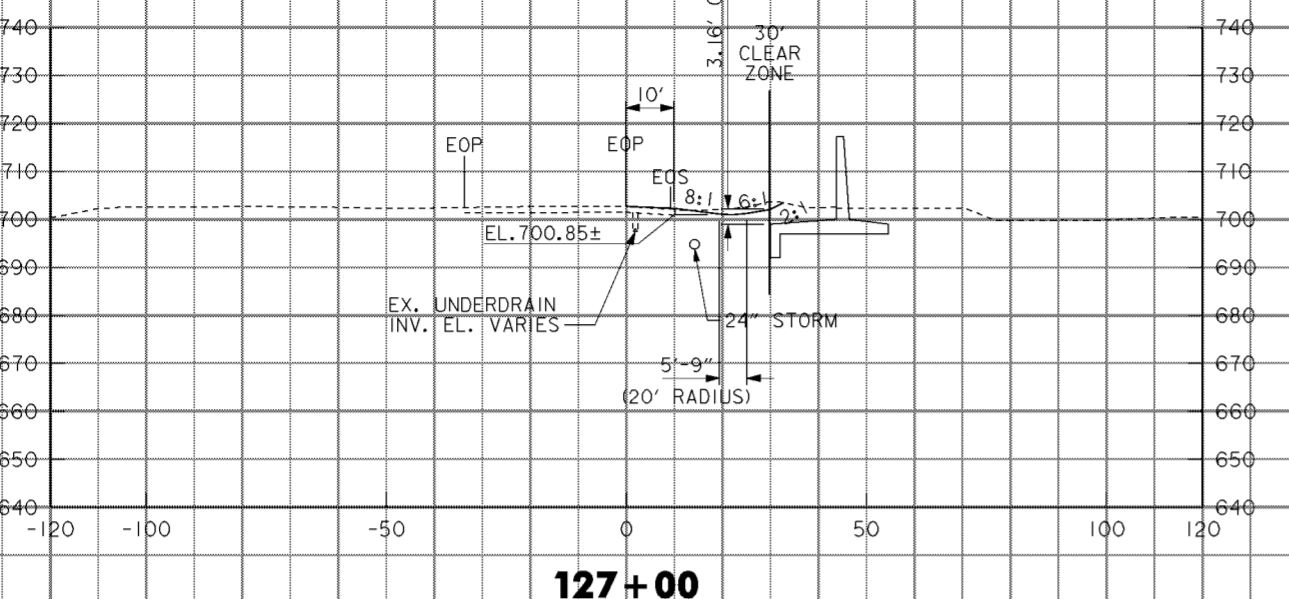
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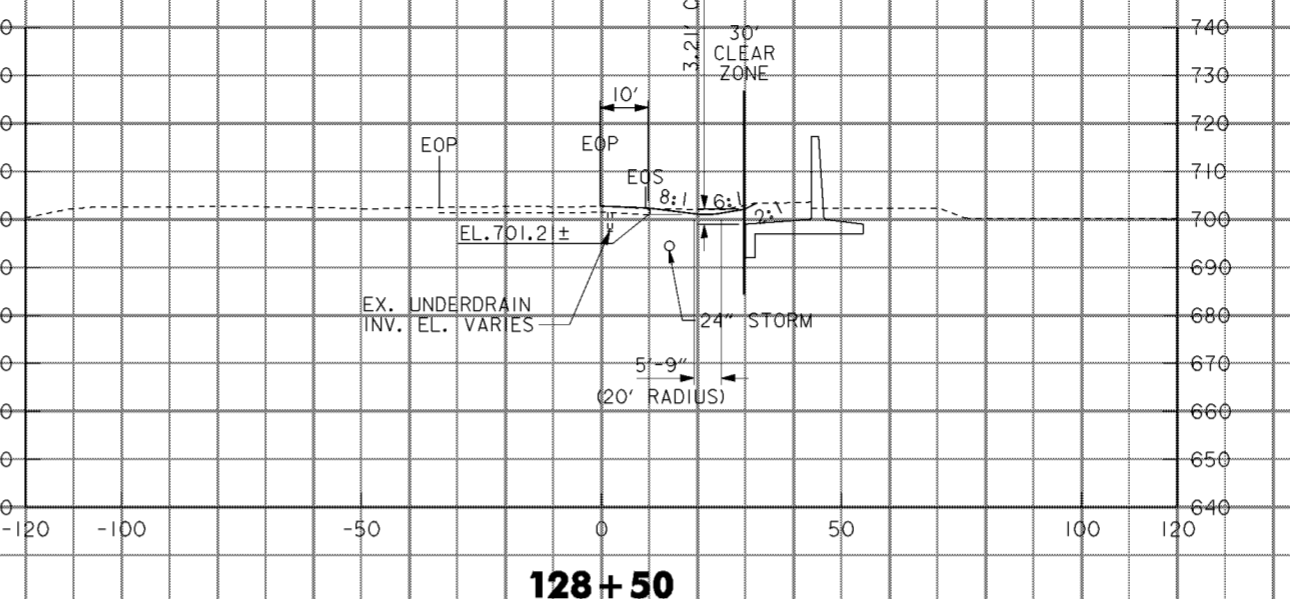
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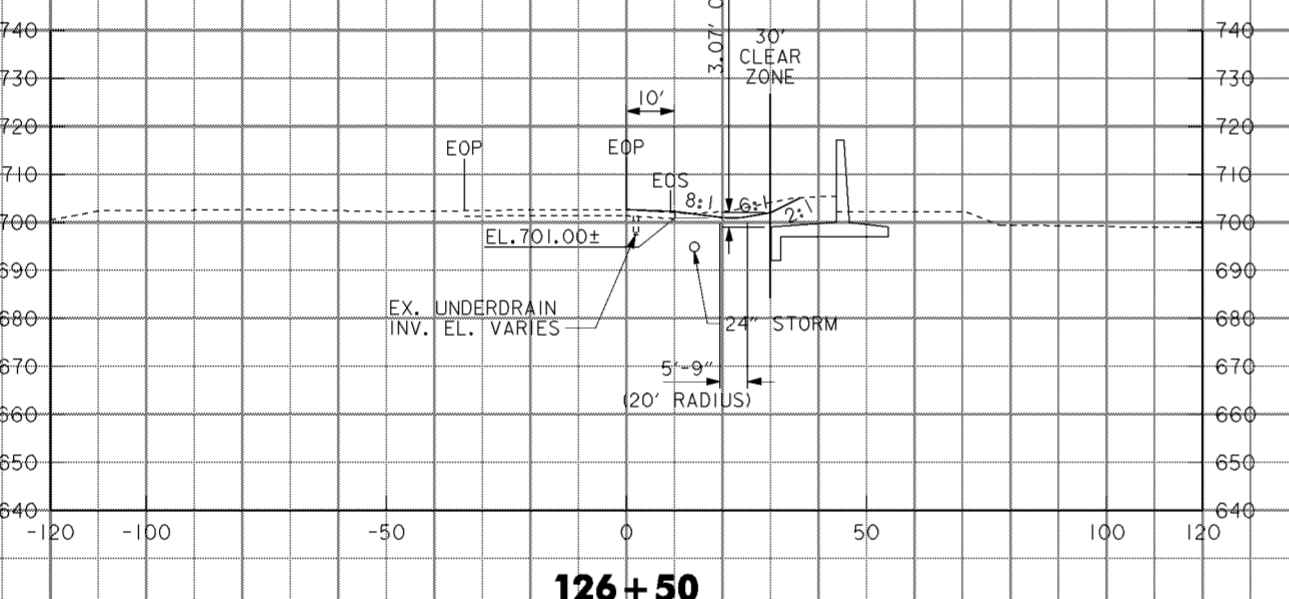
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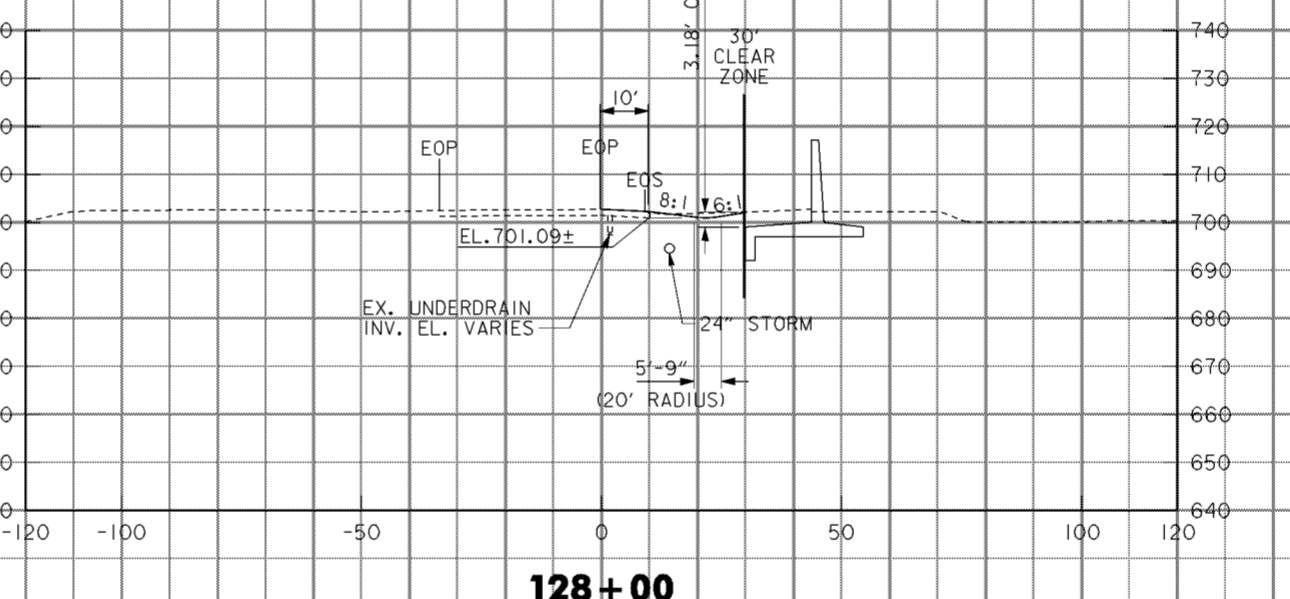
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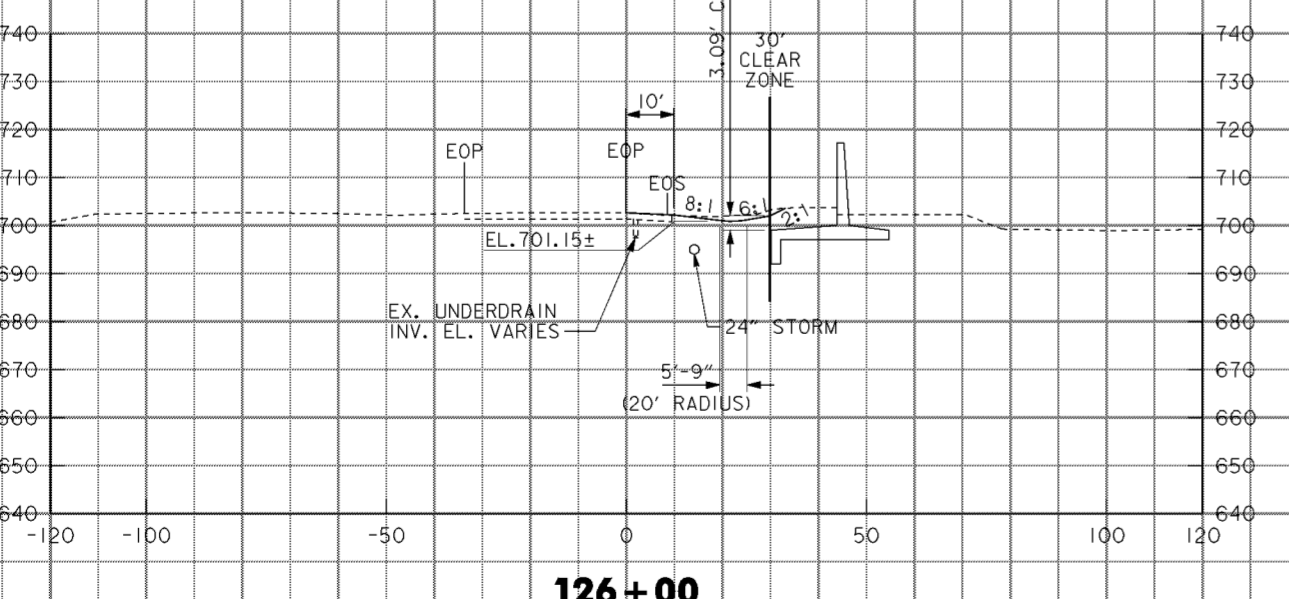
128+50



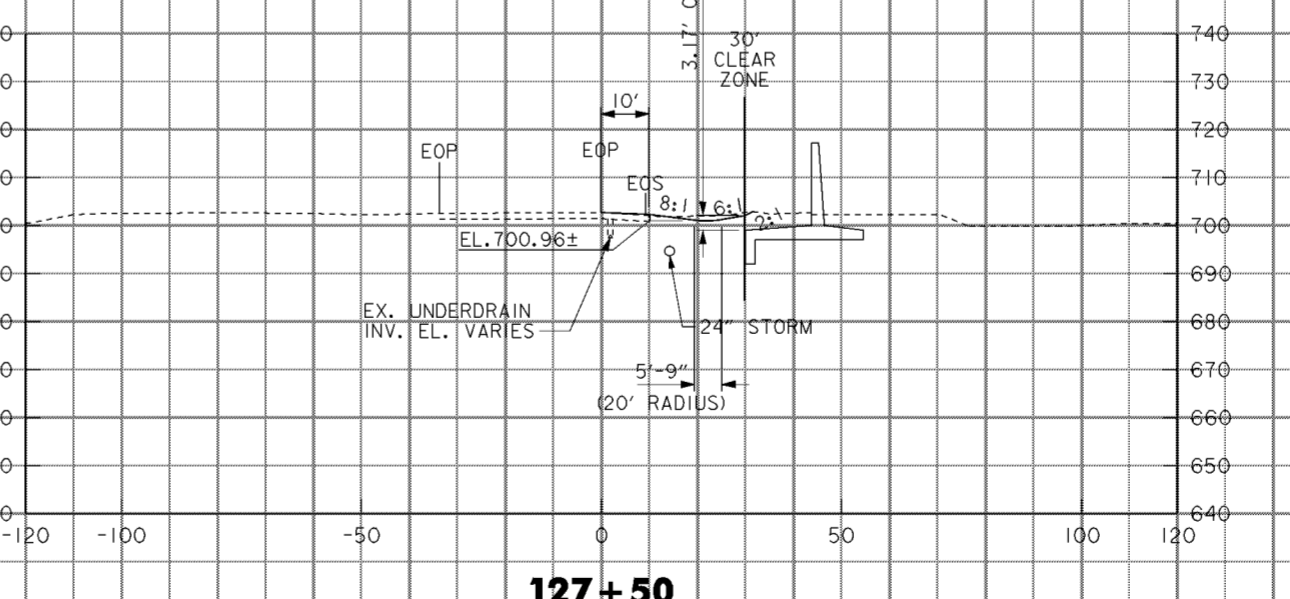
126+50



128+00



126+00



127+50

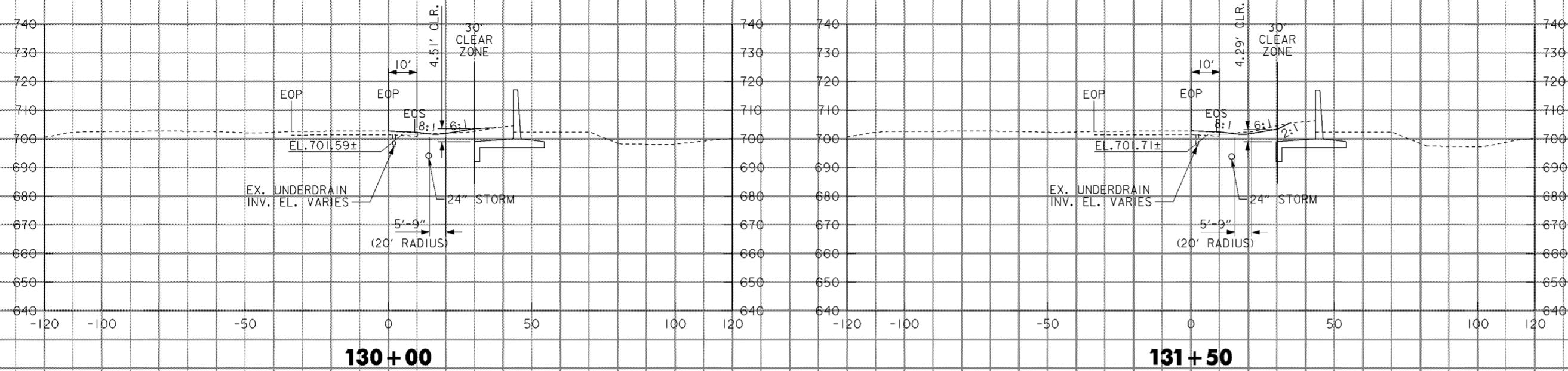
**NOTES**

- 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

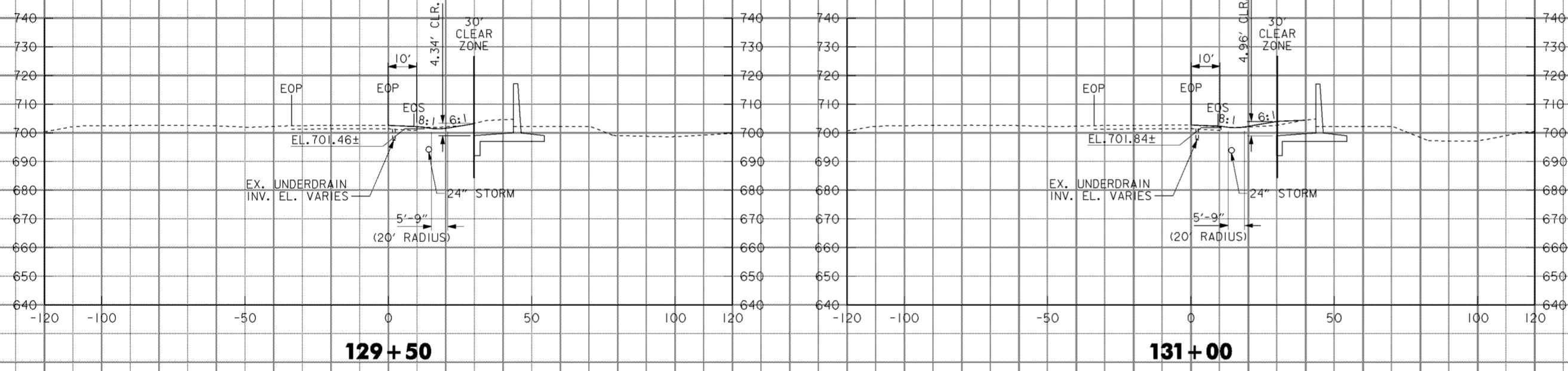
ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>L. MOORE</b>	<b>I-71 CROSS SECTIONS</b> <b>126+00 TO 128+50</b>		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>M. HEMMERICH</b>			
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference numbers:	FILENAME: aao12x10.dgn PEN TABLE: b.tbl 1.plt
Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	<b>16/63</b>	Sheet 10 of 26



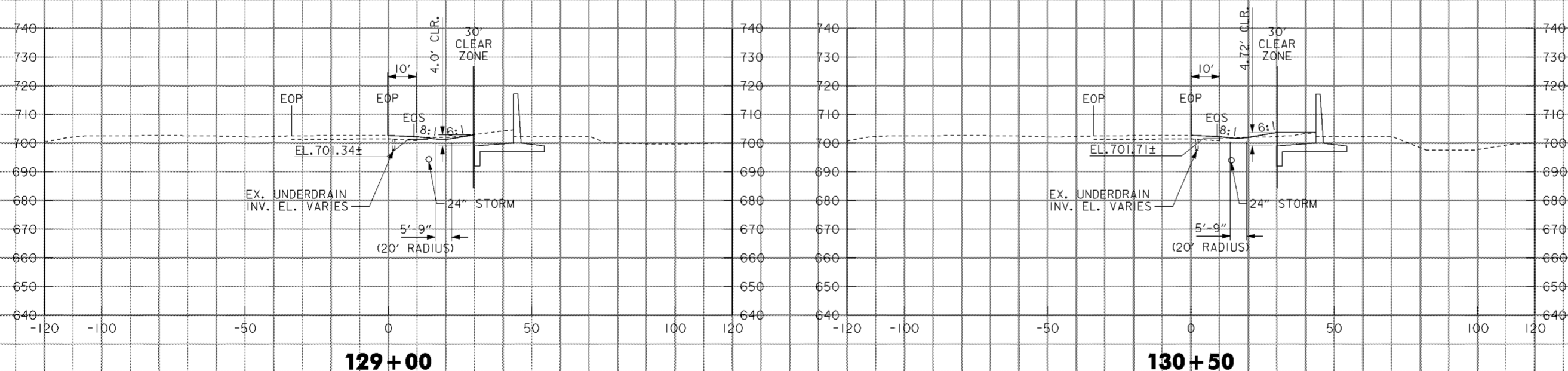
130+00

131+50



129+50

131+00



129+00

130+50

**NOTES**

1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>L. MOORE</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>129+00 TO 131+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>16/64</b>	FILENAME: PEN TABLE: aao2a11.dgn b.tbl 1.plt
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>11</b> of <b>26</b>
Approved by:			

**WORK AS CONSTRUCTED**

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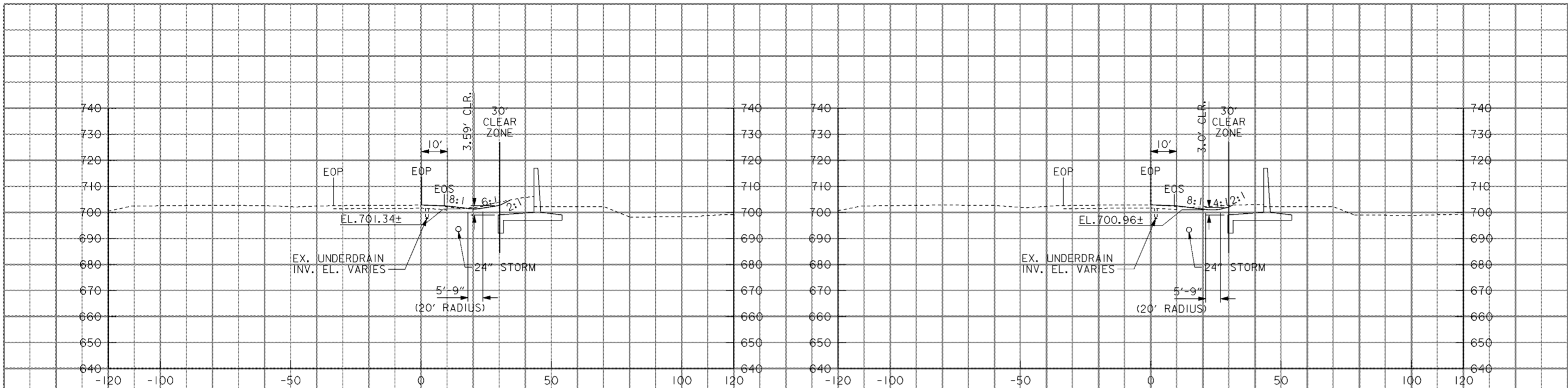
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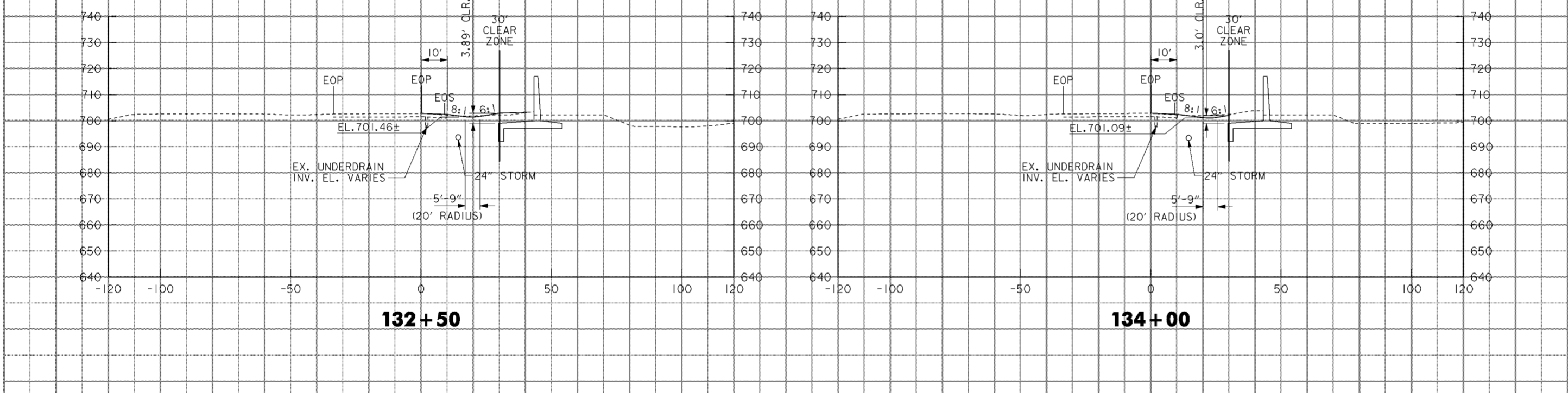
B

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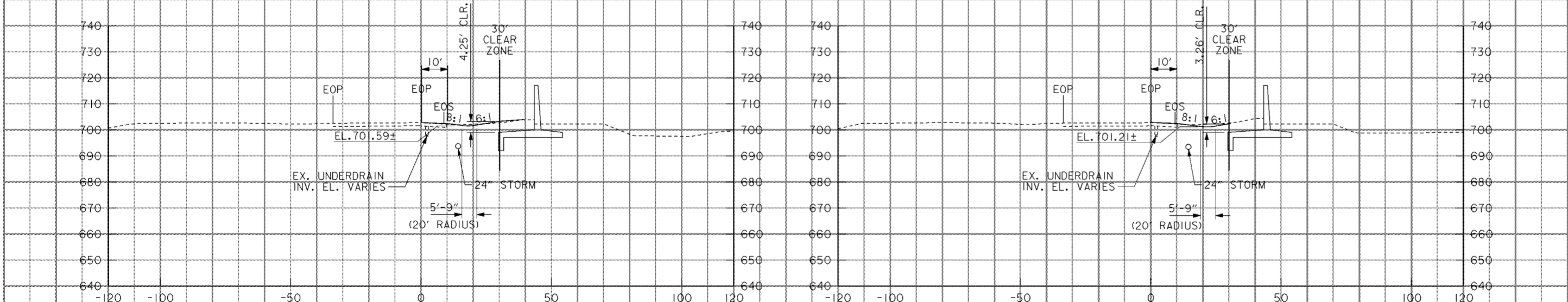
**133+00**

**134+50**



**132+50**

**134+00**



**132+00**

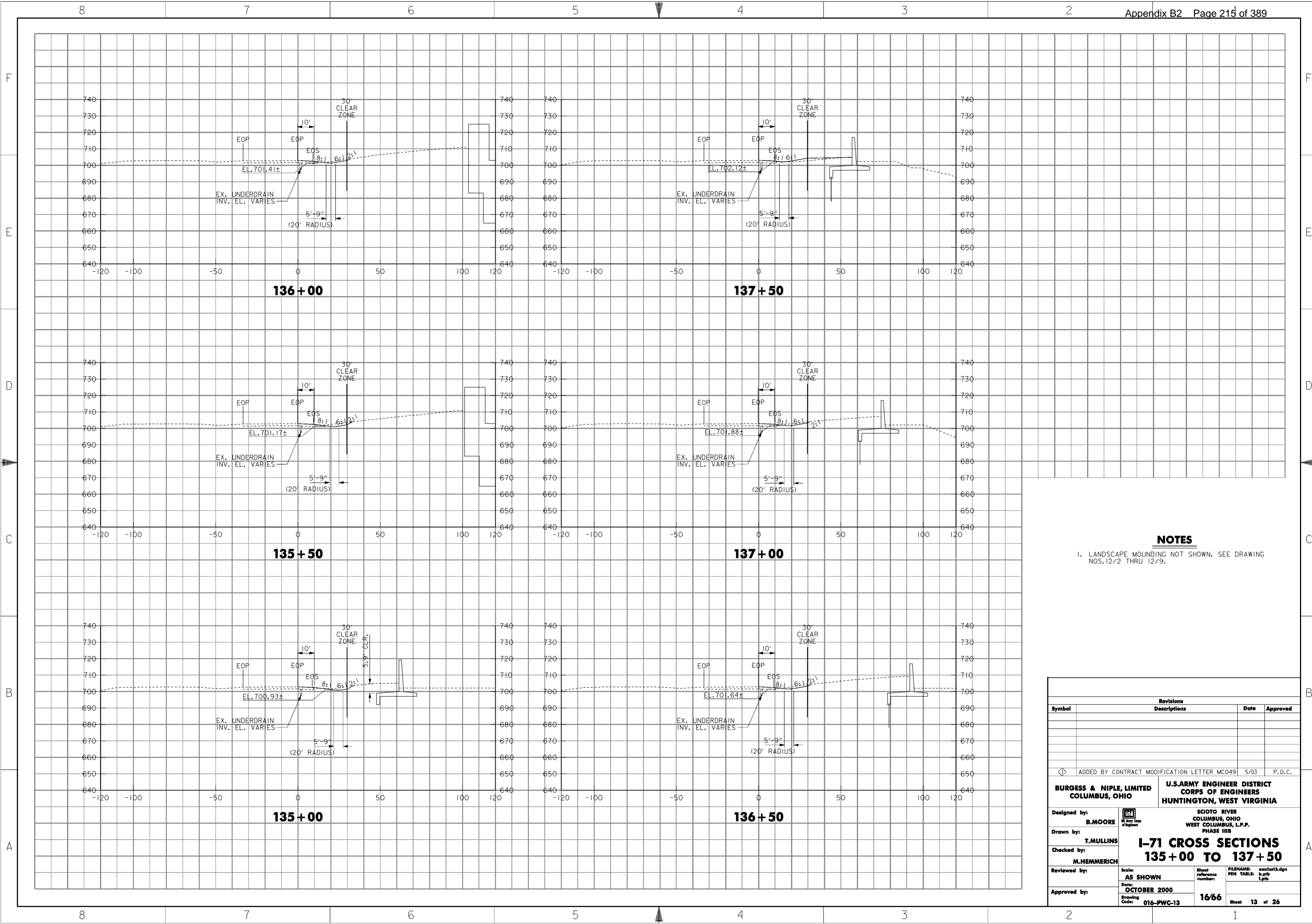
**133+50**

**NOTES**

- 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◊ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA	
Designed by: <b>L. MOORE</b>	<b>SCIOTO RIVER</b> COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>132+00 TO 134+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>	Sheet reference numbers: <b>16/65</b>	FILENAME: PEN TABLE: aao1ax12.dgn b.tbl c.plt
Reviewed by: (blank)	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	
Approved by: (blank)	Sheet 12 of 26		

**WORK AS CONSTRUCTED**

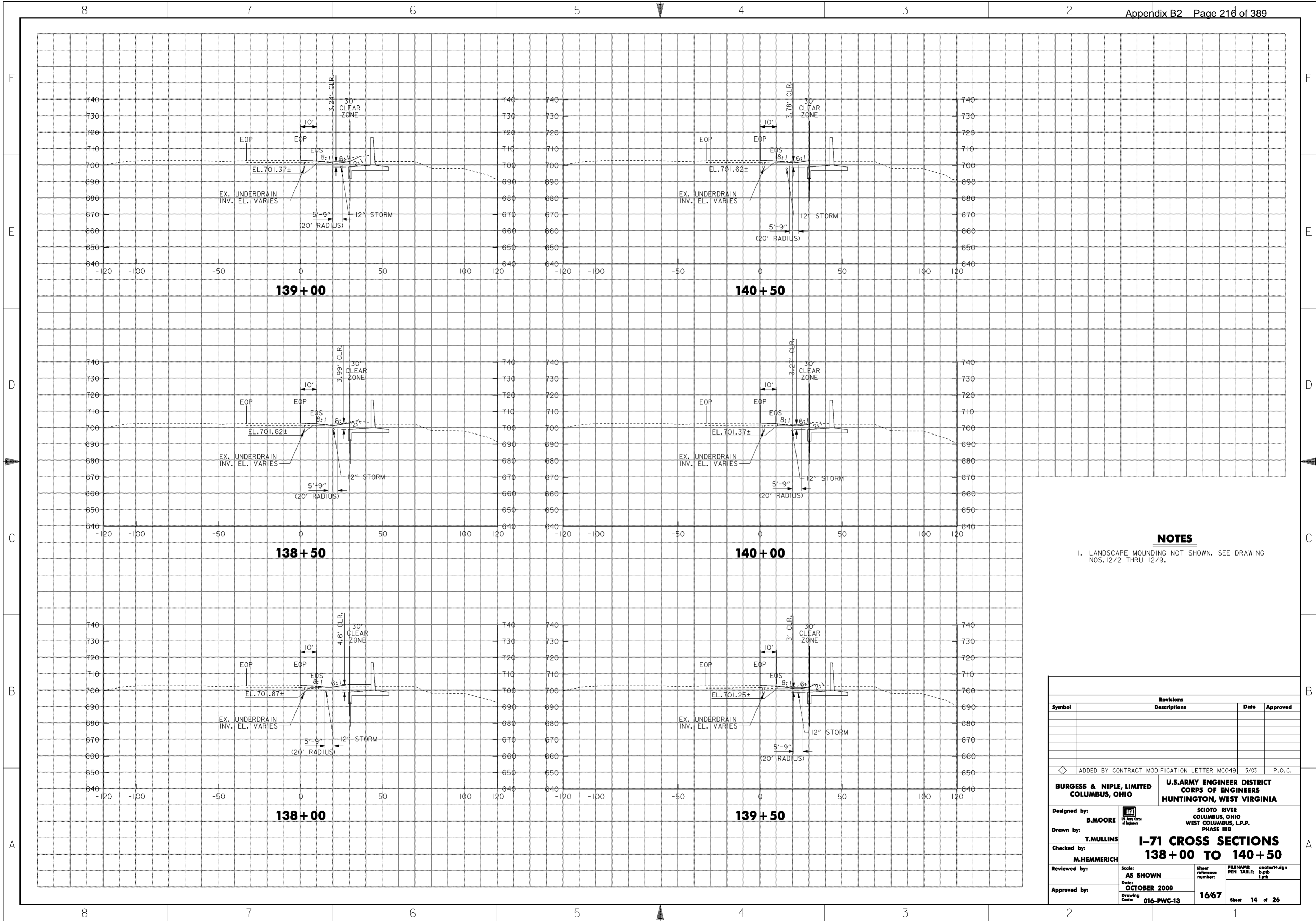


**NOTES**

1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions		Date	Approved
Symbol	Descriptions		
<p>◇ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.</p>			
<p><b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO</p>		<p><b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</p>	
<p>Designed by: <b>B. MOORE</b></p>		<p>SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p>	
<p>Drawn by: <b>T. MULLINS</b></p>		<p><b>I-71 CROSS SECTIONS</b> <b>135 + 00 TO 137 + 50</b></p>	
<p>Checked by: <b>M. HEMMERICH</b></p>		<p>Scale: <b>AS SHOWN</b></p>	<p>Sheet reference number: <b>16/66</b></p>
<p>Reviewed by:</p>	<p>Date: <b>OCTOBER 2000</b></p>	<p>Drawing Code: <b>016-PWC-13</b></p>	<p>Sheet 13 of 26</p>
<p>Approved by:</p>			

**WORK AS CONSTRUCTED**



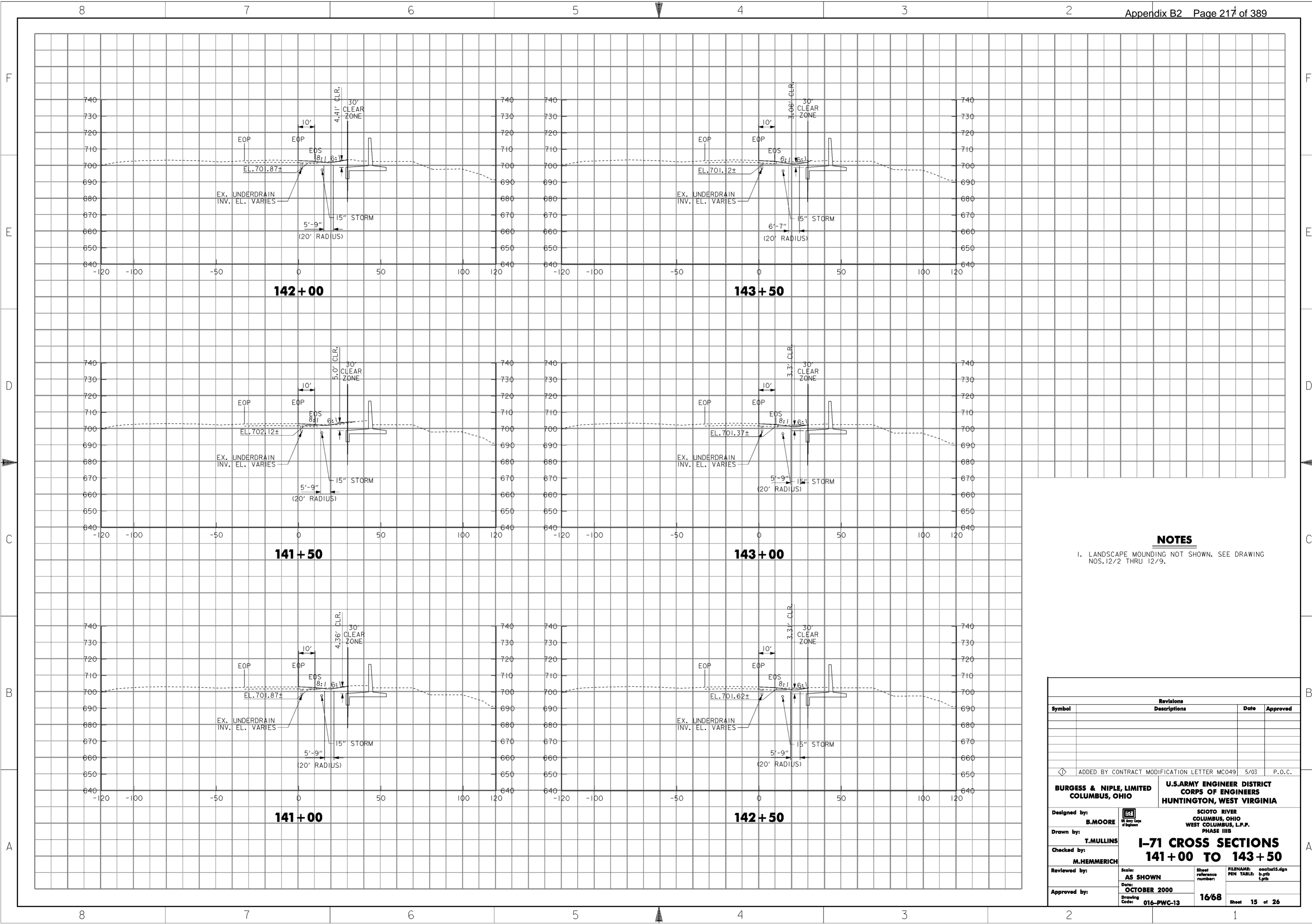
**NOTES**

- 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>138+00 TO 140+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>	Sheet reference numbers: <b>16/67</b>	FILENAME: PEN TABLE: aao2a14.dgn b.tbl l.plt
Reviewed by: <b>M. HEMMERICH</b>	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	
Approved by:	Sheet 14 of 26		

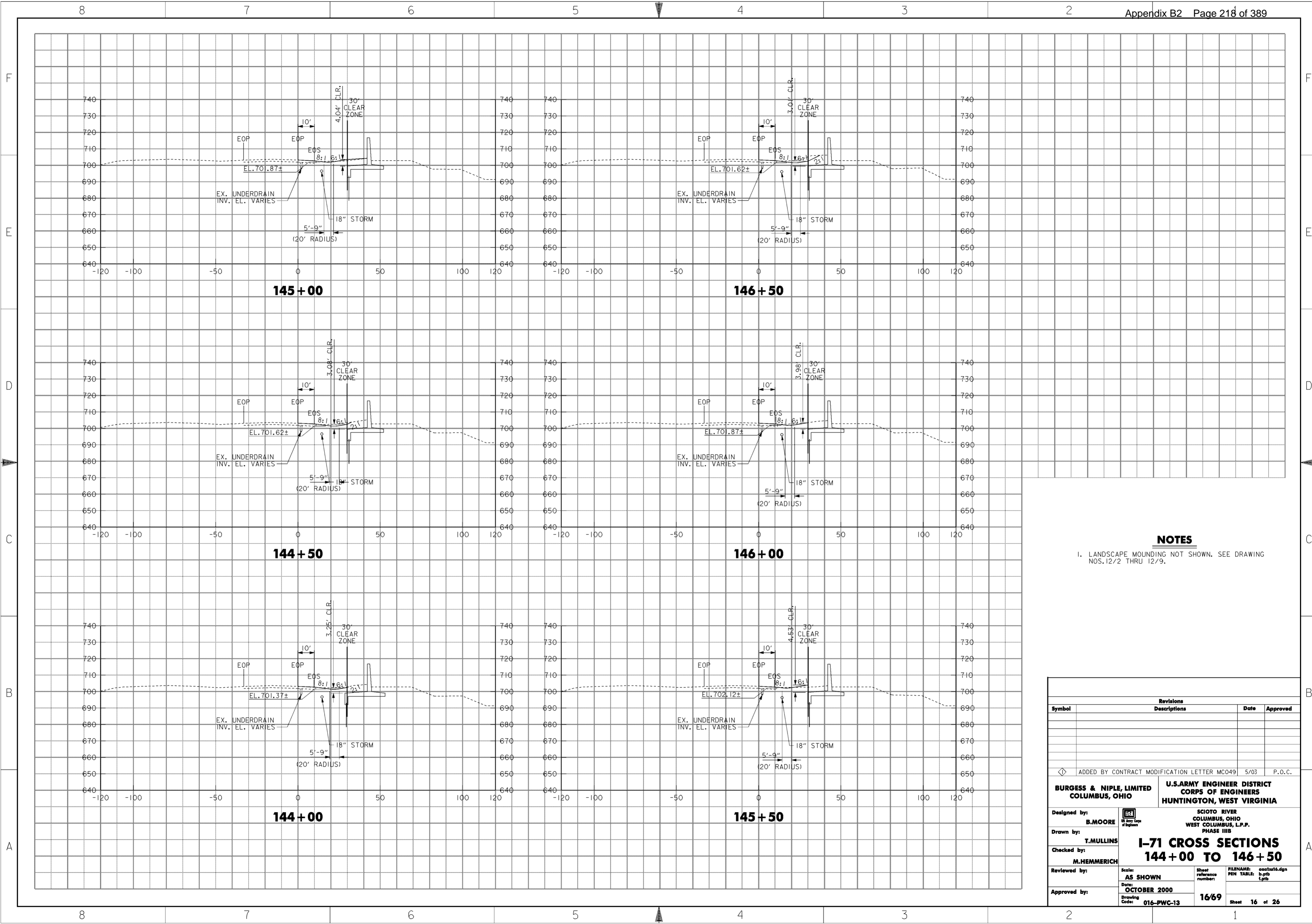
**WORK AS CONSTRUCTED**





**NOTES**  
 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B. MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>M. HEMMERICH</b>	<b>I-71 CROSS SECTIONS</b> <b>141+00 TO 143+50</b>		
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number:	FILENAME: aao1a15.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	PEN TABLE: b.tbl l.tbl
		<b>16/68</b>	Sheet 15 of 26



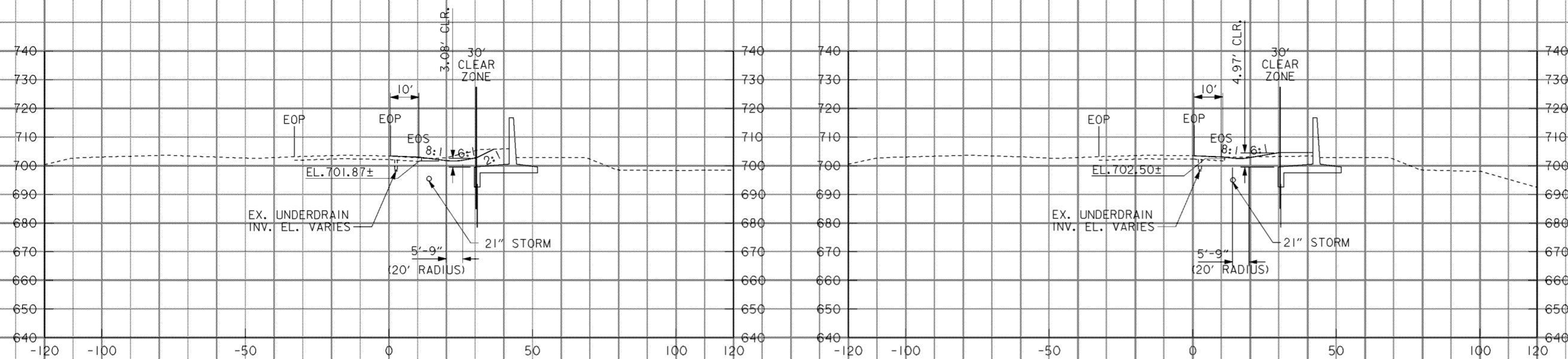
**NOTES**

1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◊ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B. MOORE</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB	
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>144+00 TO 146+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: AS SHOWN	Sheet reference number: <b>16/69</b>	FILENAME: PEN TABLE: d.pfb l.pfb
Reviewed by: _____	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 16 of 26
Approved by: _____	<b>WORK AS CONSTRUCTED</b>		

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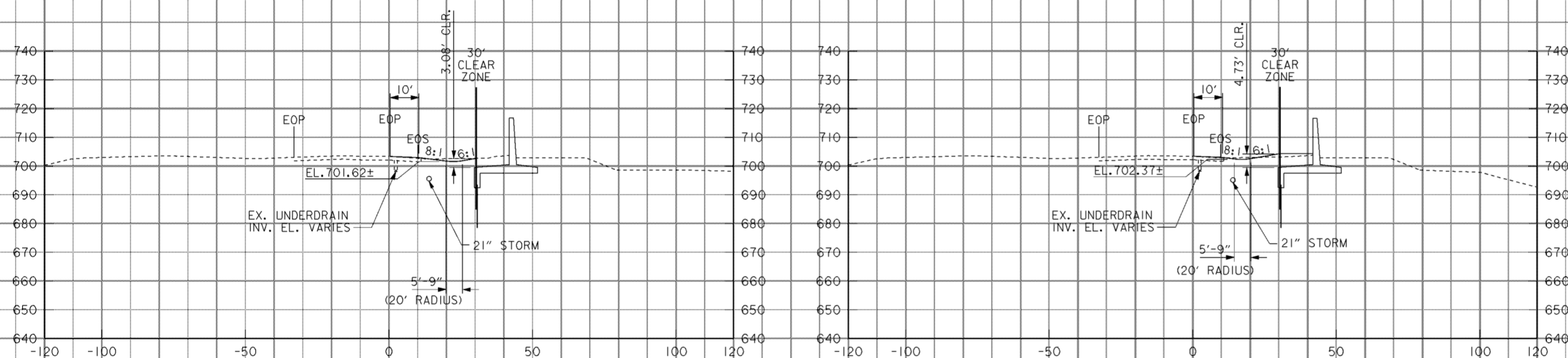


148+00

149+50

D

D



147+50

149+00

C

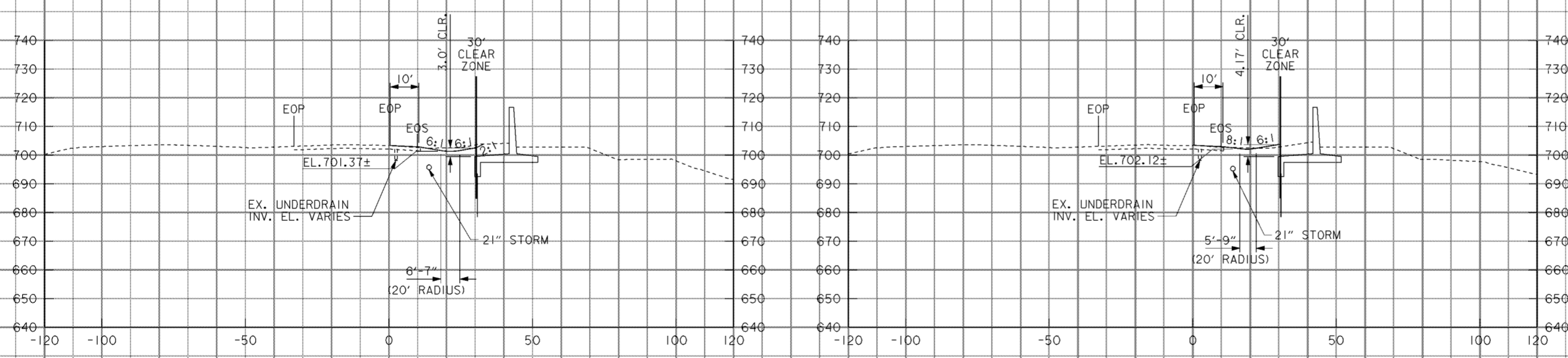
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**NOTES**

1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

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147+00

148+50

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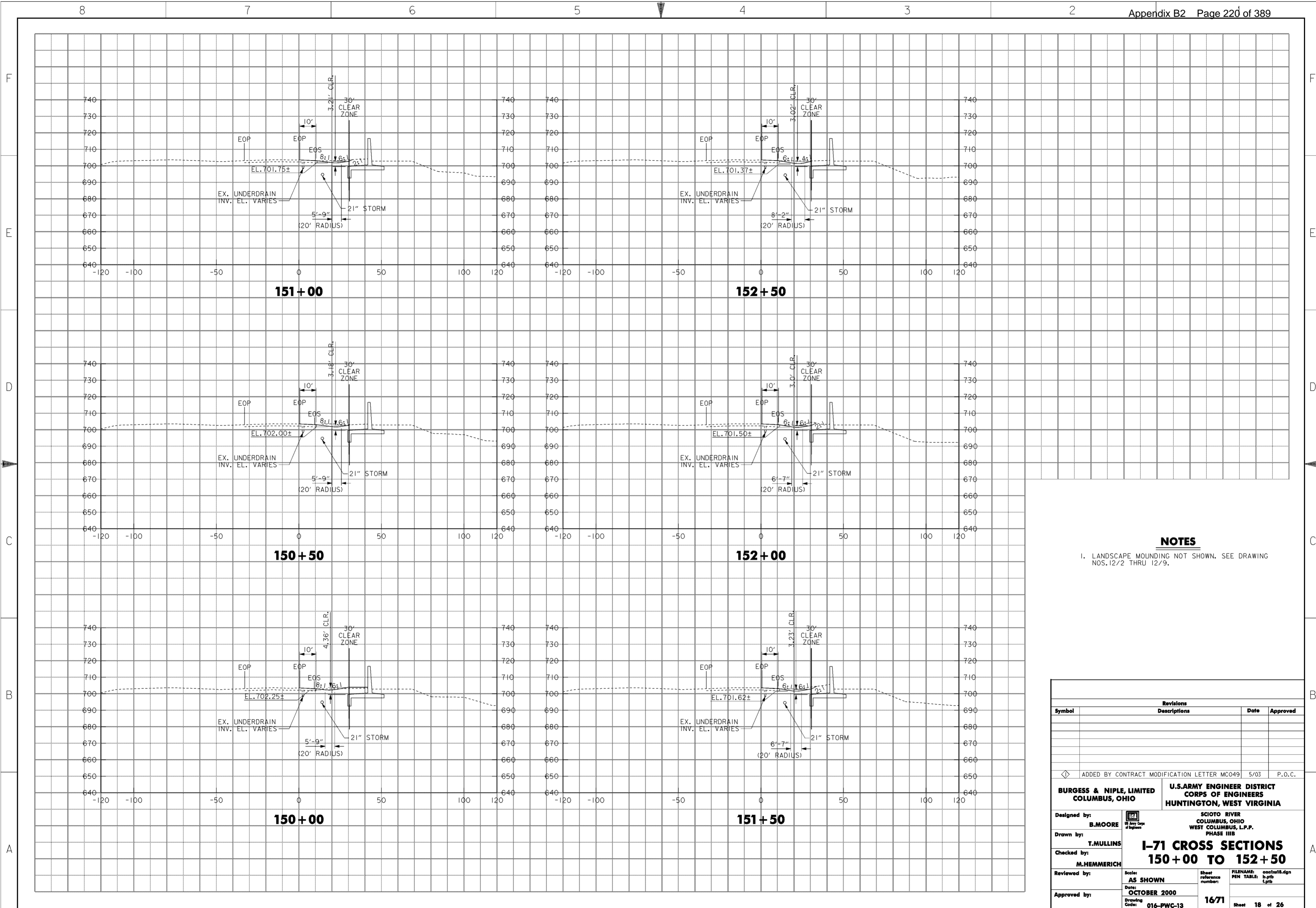
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Symbol	Revisions Descriptions	Date	Approved

◇ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
Designed by: <b>B. MOORE</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> 147+00 TO 149+50		
Checked by: <b>M. HEMMERICH</b>			
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference numbers:	FILENAME: aao02s17.dgn PEN TABLE: b.tbl L.tbl
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	1670 Sheet 17 of 26

**WORK AS CONSTRUCTED**



**NOTES**

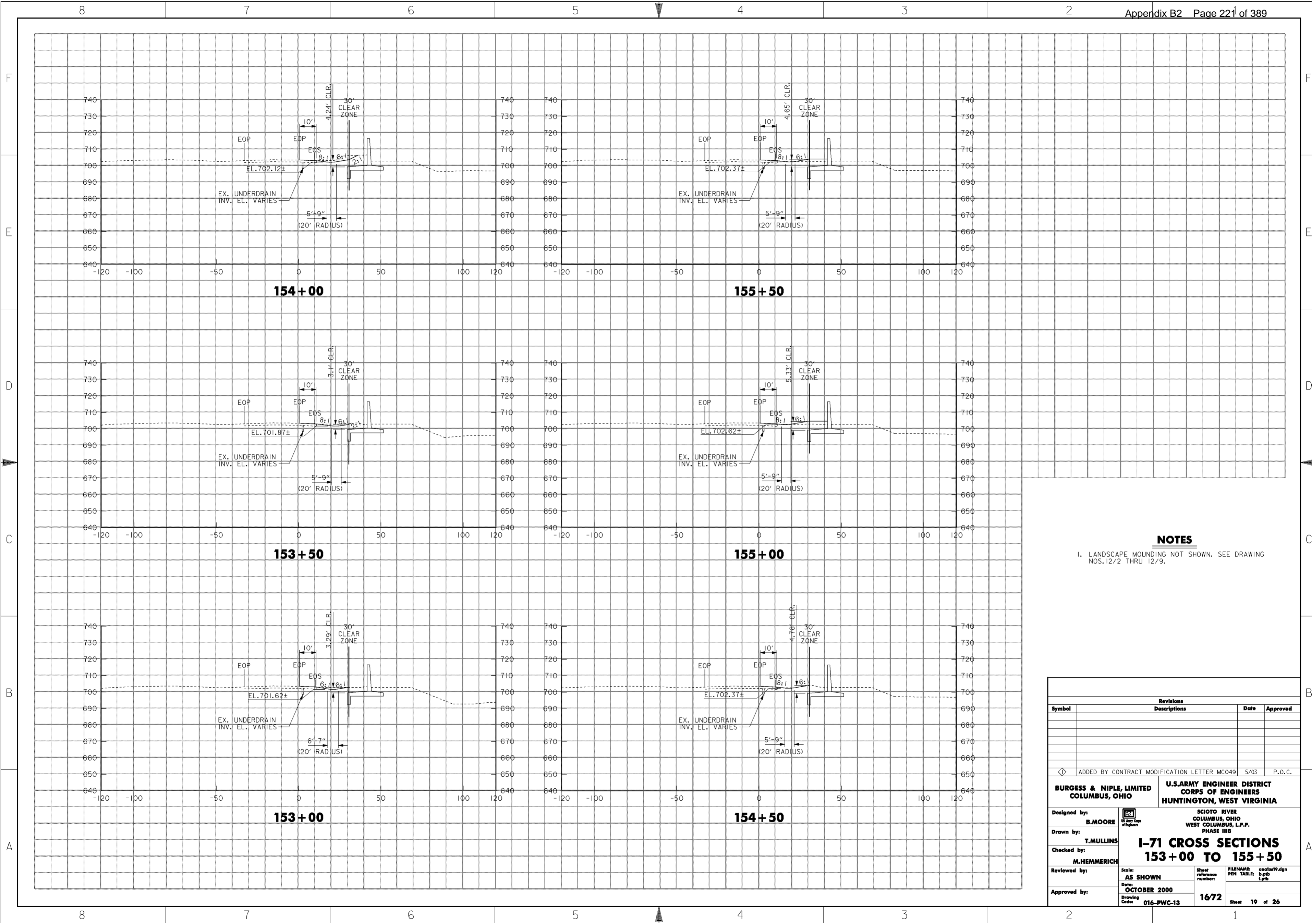
1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved

ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>I-71 CROSS SECTIONS</b> 150+00 TO 152+50	
		Designed by: <b>B. MOORE</b>	Drawn by: <b>T. MULLINS</b>
		Checked by: <b>M. HEMMERICH</b>	Reviewed by: AS SHOWN Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Approved by:	Sheet reference number: <b>16/71</b>	FILENAME: PEN TABLE: aao1a18.dgn b.ptb 1.ptb	Sheet 18 of 26

**WORK AS CONSTRUCTED**

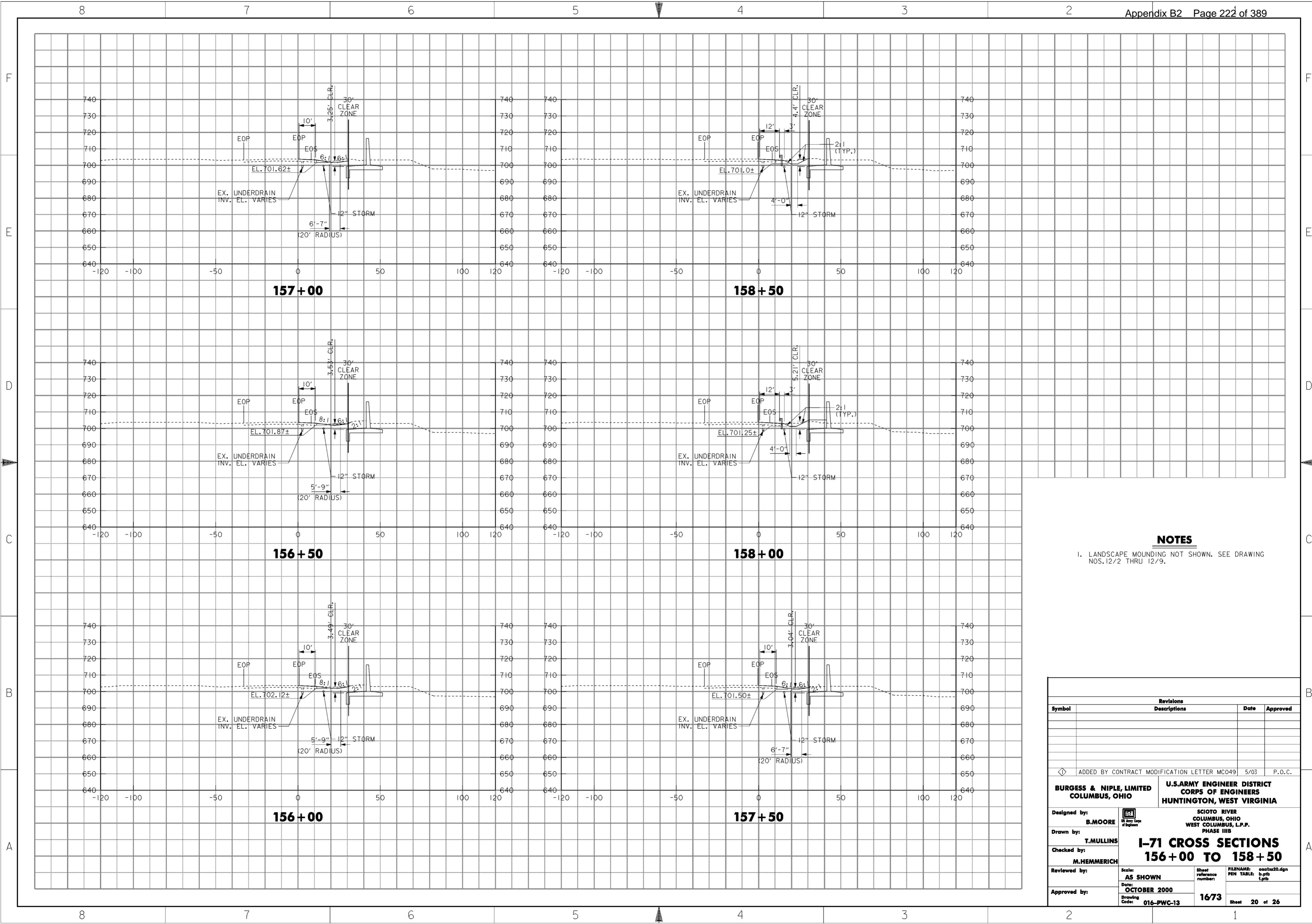


**NOTES**

- 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◇	ADDED BY CONTRACT MODIFICATION LETTER MC049	5/03	P.O.C.
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	<b>B. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by:	<b>T. MULLINS</b>		
Checked by:	<b>M. HEMMERICH</b>	<b>I-71 CROSS SECTIONS</b> <b>153+00 TO 155+50</b>	
Reviewed by:			
Approved by:		Scale:	AS SHOWN
		Date:	OCTOBER 2000
		Drawing Code:	016-PWC-13
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			l.plt
			Sheet 19 of 26

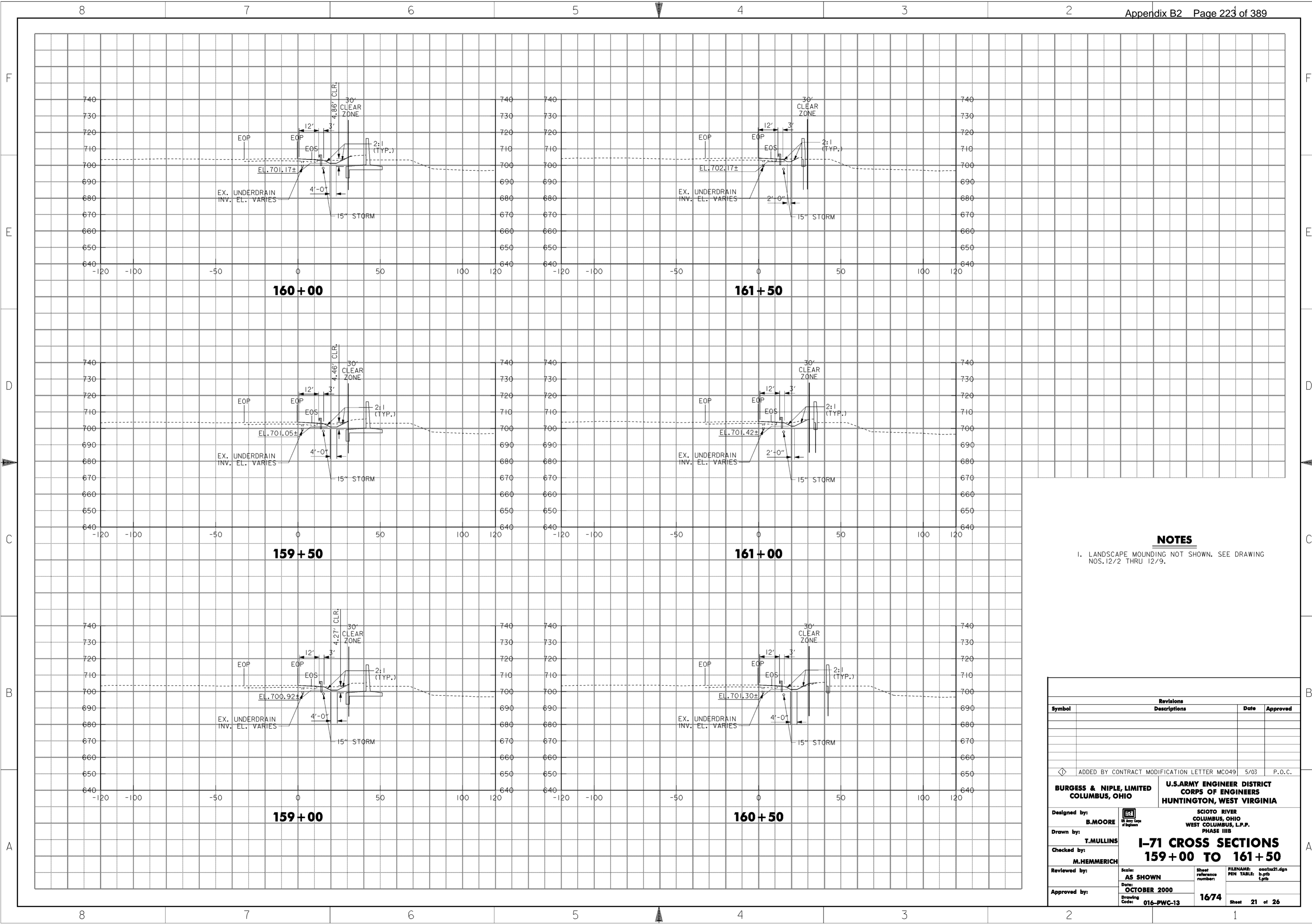
**WORK AS CONSTRUCTED**



**NOTES**

- 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

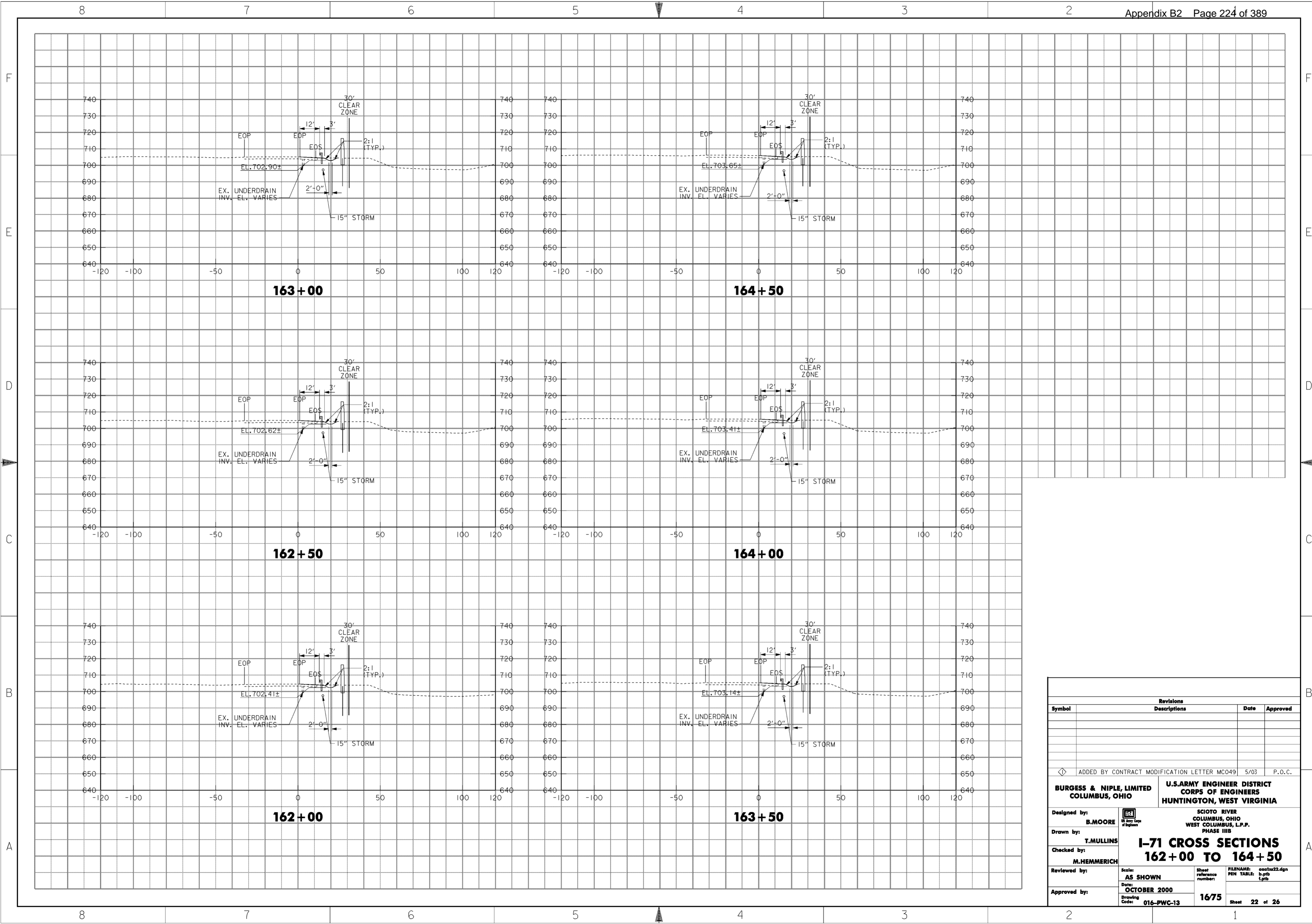
Revisions			
Symbol	Descriptions	Date	Approved
<> ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>156+00 TO 158+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>1673</b>	FILENAME: PEN TABLE: aao1x20.dgn b.tbl l.plt
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>20</b> of <b>26</b>
Approved by:			



**NOTES**

- 1. LANDSCAPE MOUNDING NOT SHOWN. SEE DRAWING NOS. 12/2 THRU 12/9.

Revisions			
Symbol	Descriptions	Date	Approved
◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>M. HEMMERICH</b>	<b>I-71 CROSS SECTIONS</b> <b>159+00 TO 161+50</b>		
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number:	FILENAME: PEN TABLE: aao1a21.dgn b.tbl 1.plt
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>21</b> of <b>26</b>



Revisions			
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◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>M. HEMMERICH</b>	<b>I-71 CROSS SECTIONS</b> <b>162+00 TO 164+50</b>		
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>1675</b>	FILENAME: aao1a22.dgn PEN TABLE: p.tbl l.plt
	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>22</b> of <b>26</b>

WORK AS CONSTRUCTED



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C

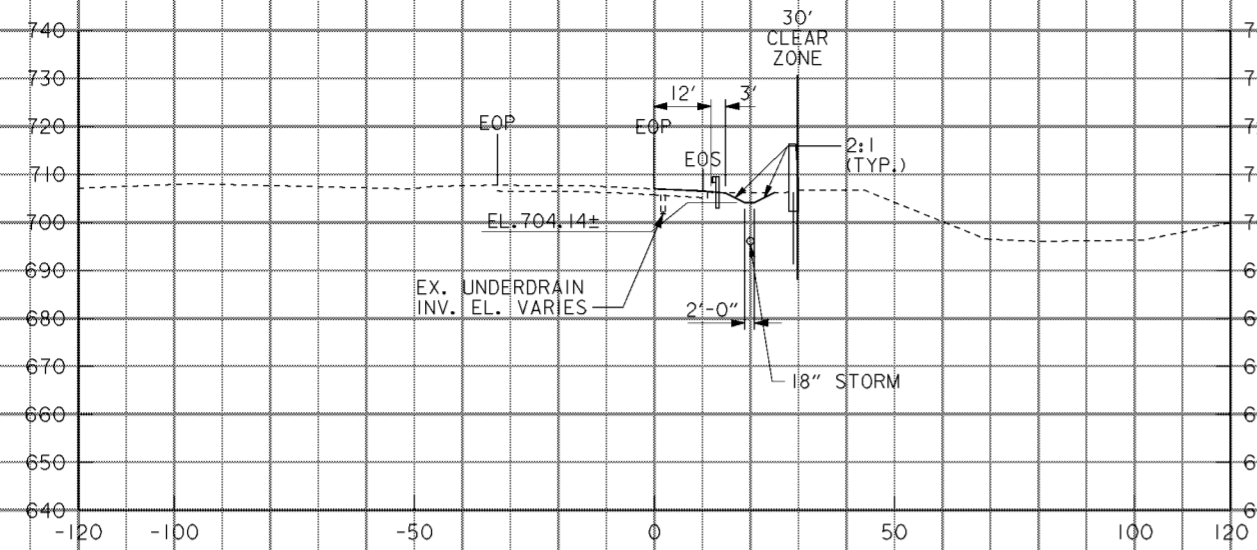
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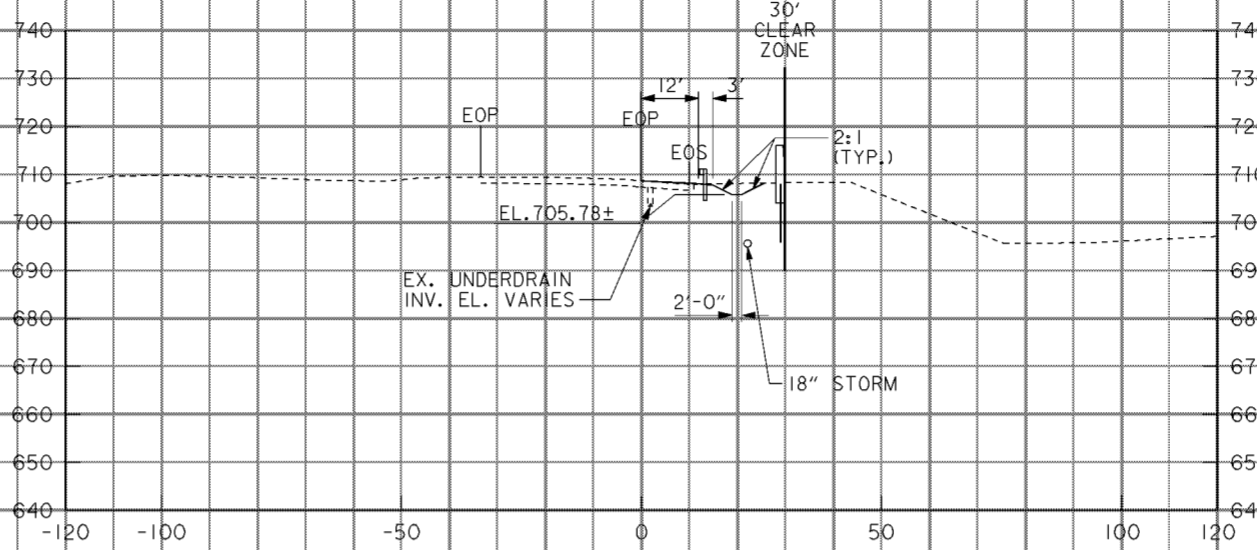
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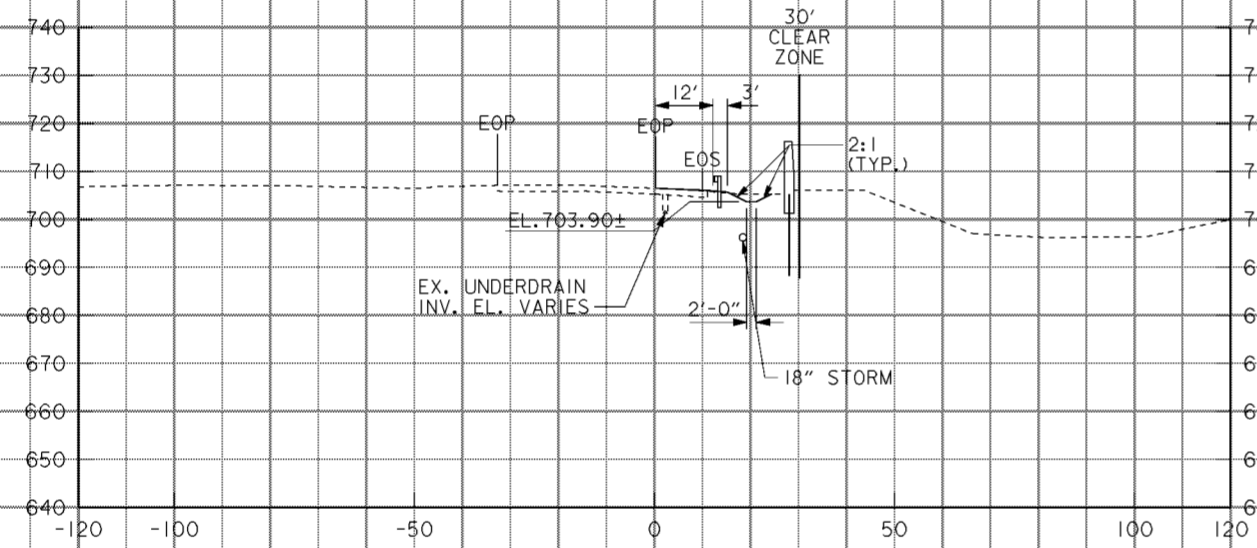
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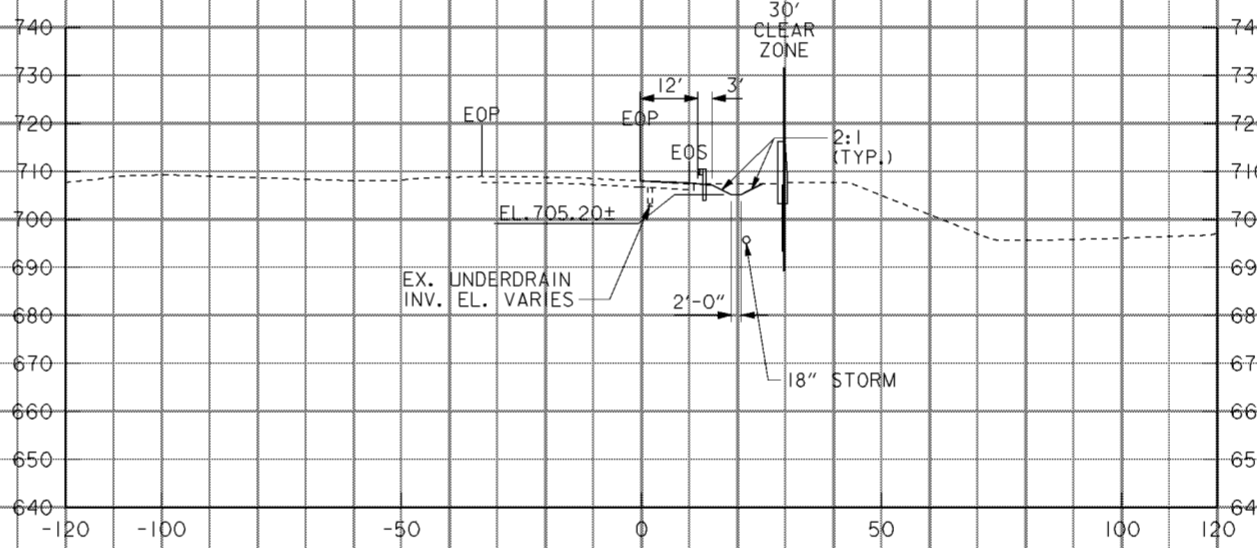
166+00



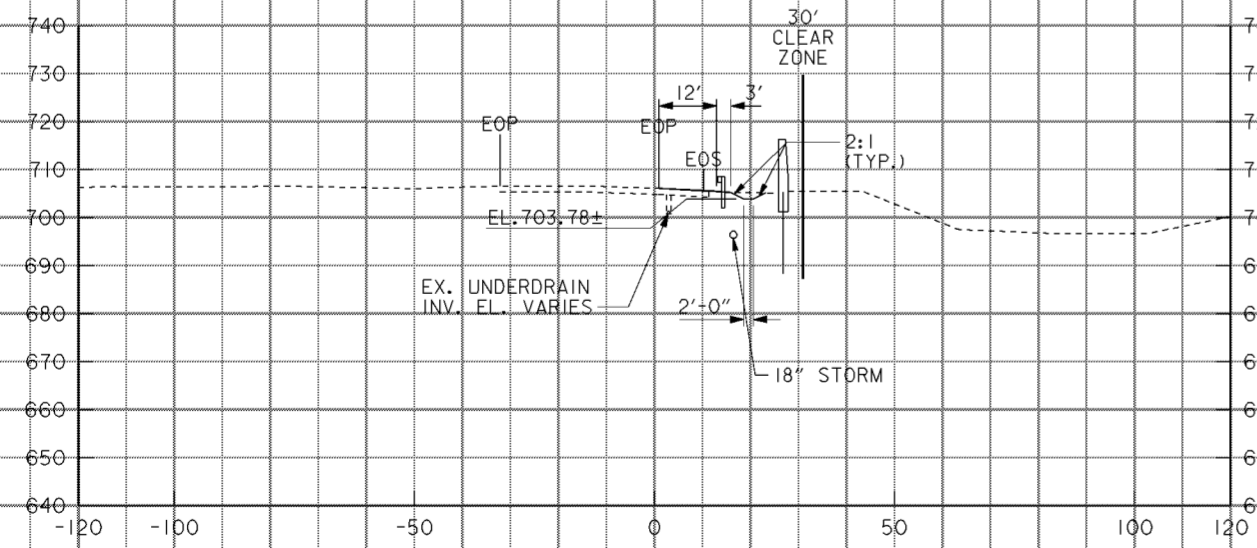
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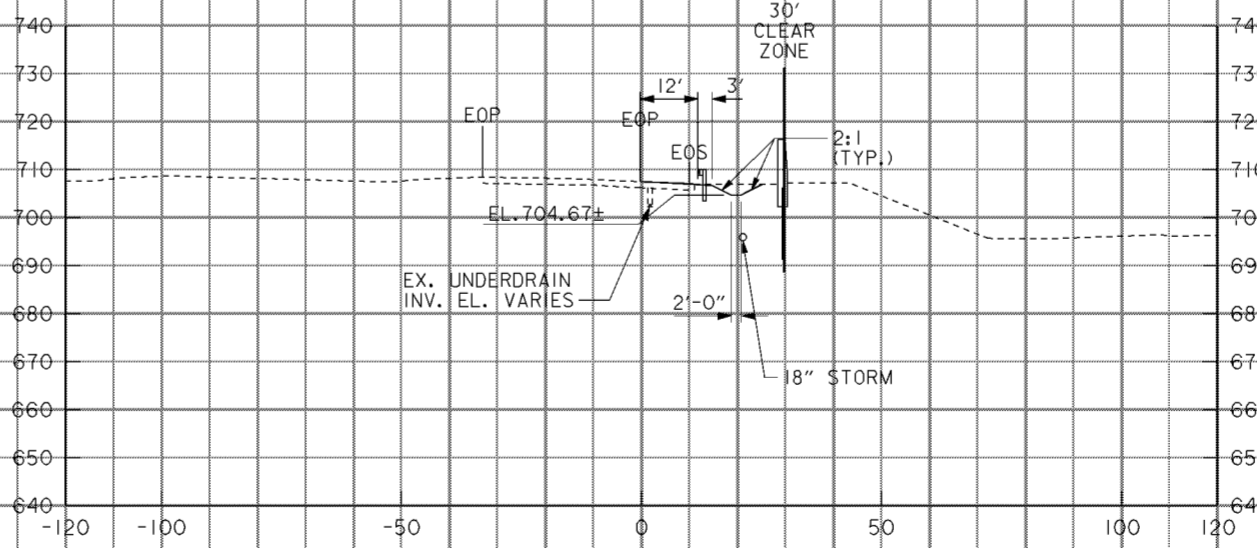
165+50



167+00



165+00



166+50

Revisions			
Symbol	Descriptions	Date	Approved
<p>ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.</p>			
<p><b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO</p>		<p><b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA</p>	
<p>Designed by: <b>B. MOORE</b></p>	<p>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B</p>		
<p>Drawn by: <b>T. MULLINS</b></p>	<p><b>I-71 CROSS SECTIONS</b> <b>165+00 TO 167+50</b></p>		
<p>Checked by: <b>M. HEMMERICH</b></p>	<p>Scale: <b>AS SHOWN</b></p>	<p>Sheet reference number: <b>1676</b></p>	<p>FILENAME: aao1a23.dgn PEN TABLE: b.plt l.plt</p>
<p>Reviewed by:</p>	<p>Date: <b>OCTOBER 2000</b></p>	<p>Sheet 23 of 26</p>	
<p>Approved by:</p>	<p>Drawing Code: <b>016-PWC-13</b></p>	<p>1676</p>	

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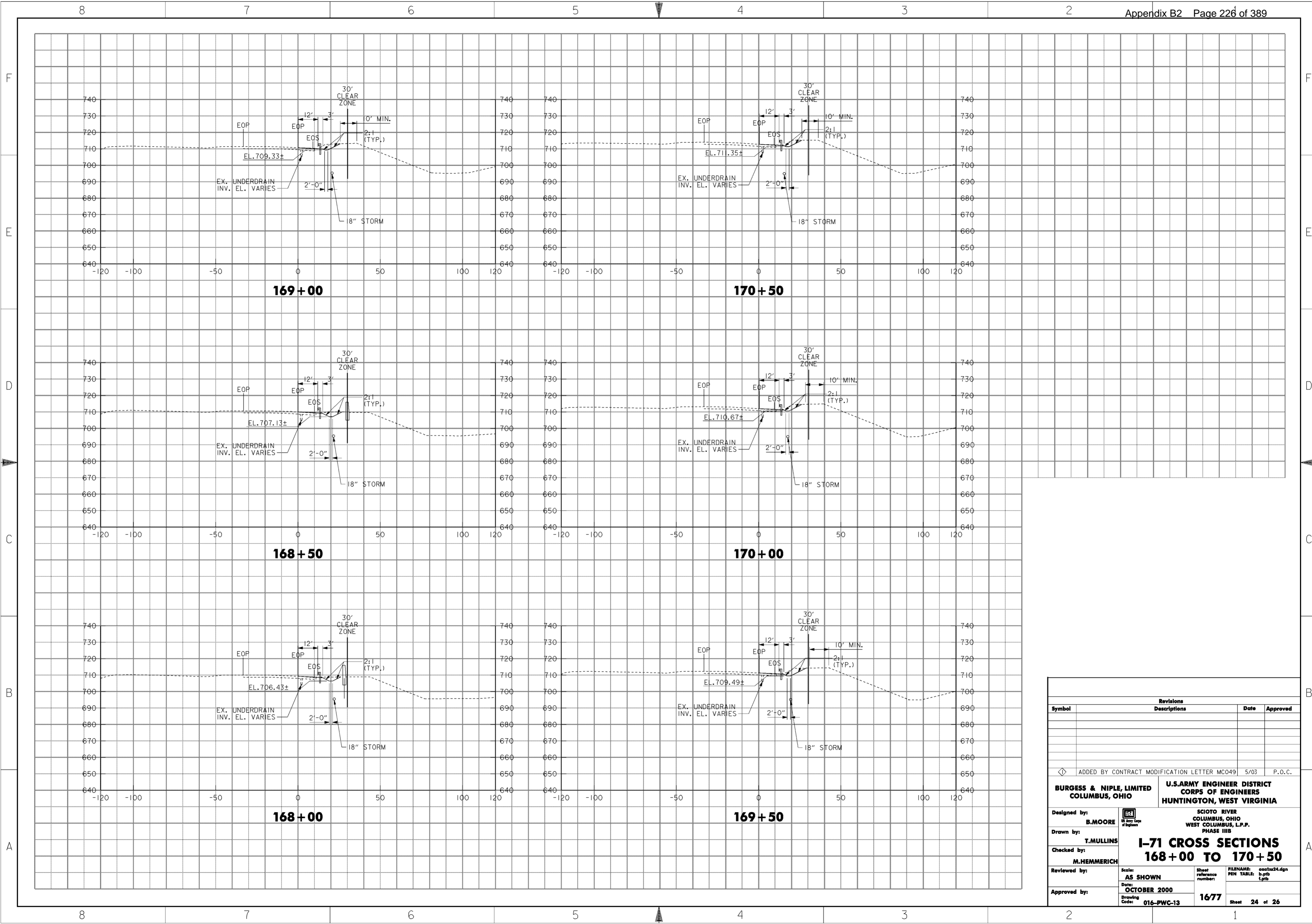
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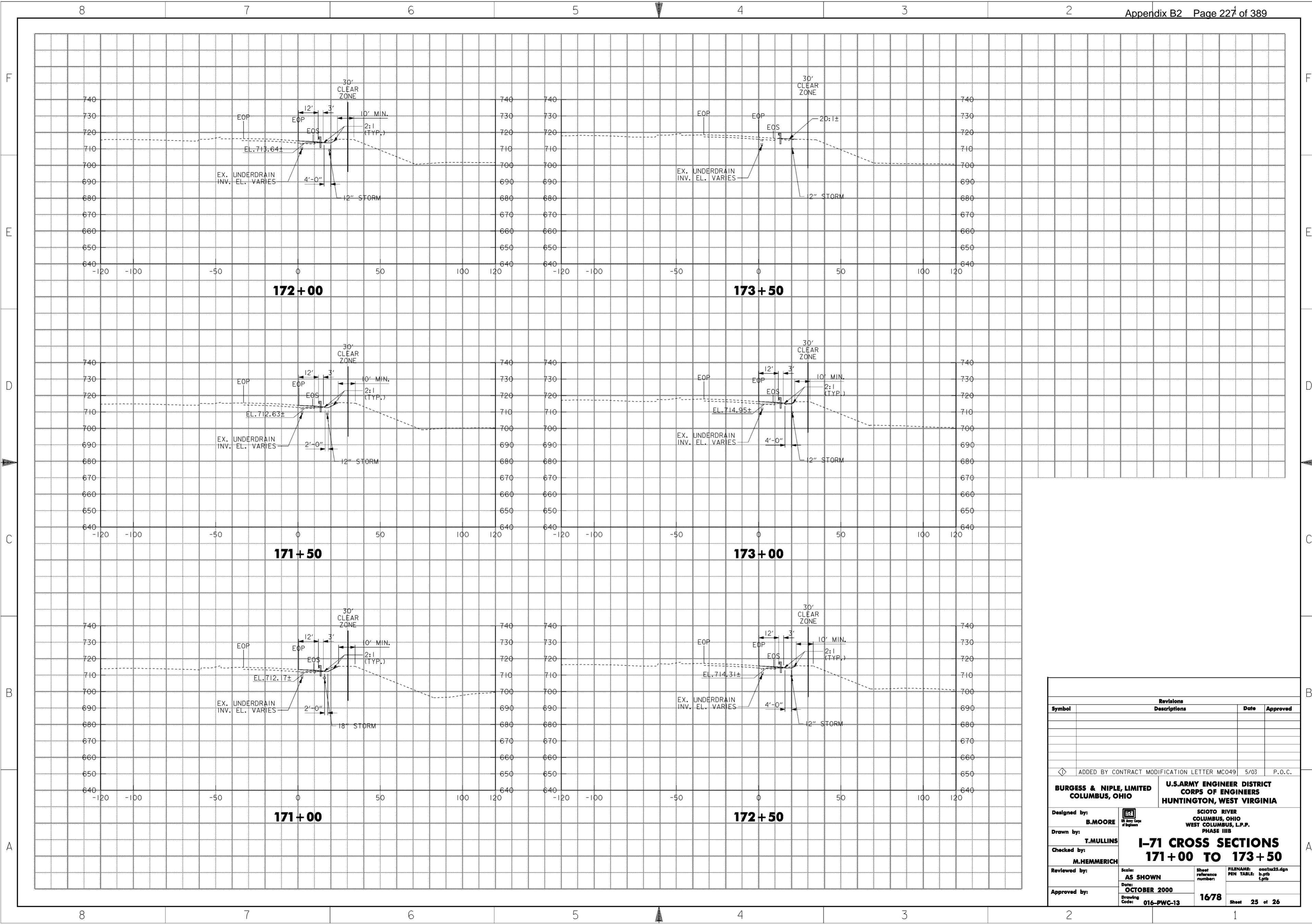
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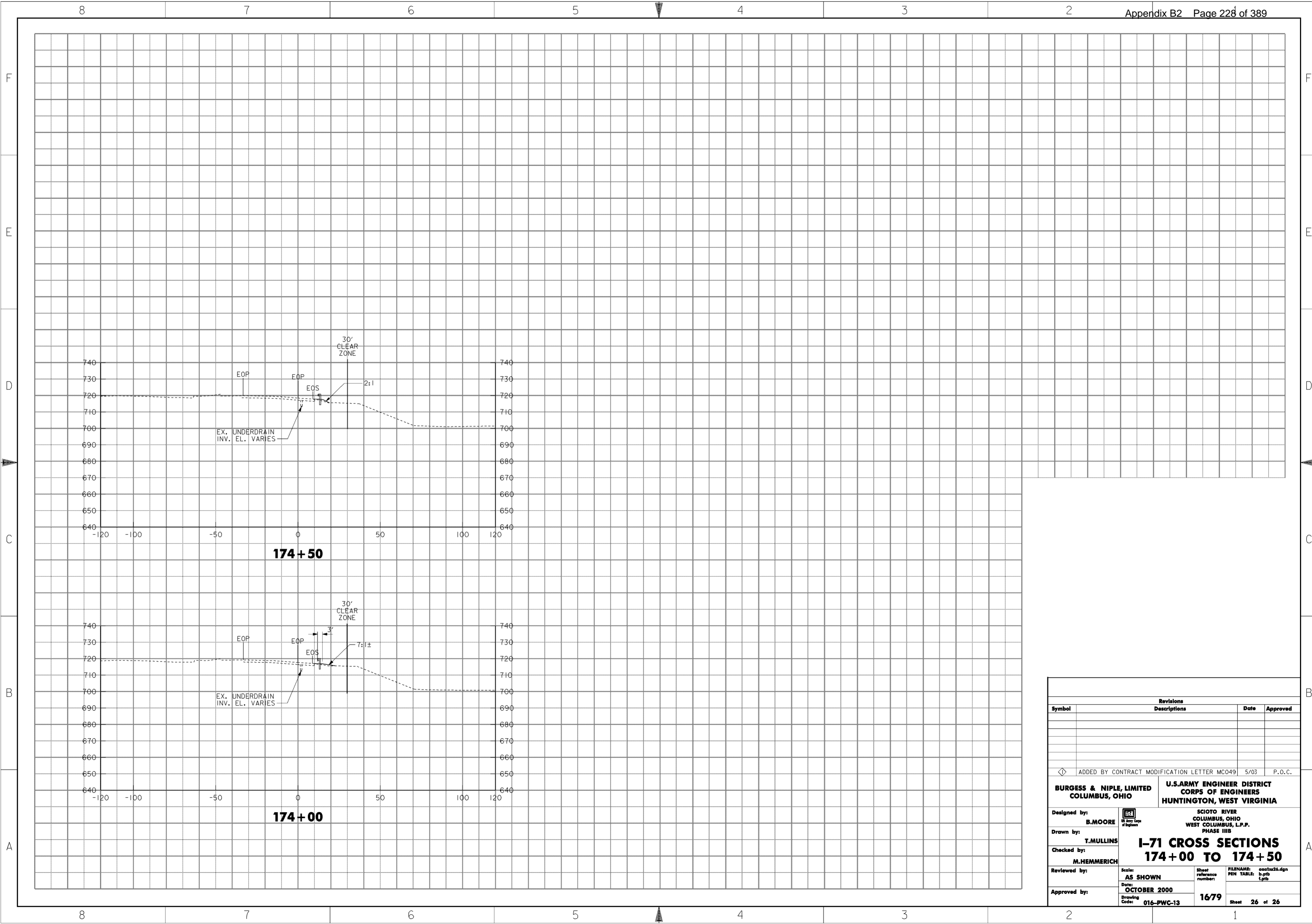
Revisions			
Symbol	Descriptions	Date	Approved
◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>	<b>I-71 CROSS SECTIONS</b> <b>168+00 TO 170+50</b>		
Checked by: <b>M. HEMMERICH</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>1677</b>	FILENAME: aao1a24.dgn PEN TABLE: b.tbl l.plt
Reviewed by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>24</b> of <b>26</b>
Approved by:			


WORK AS CONSTRUCTED

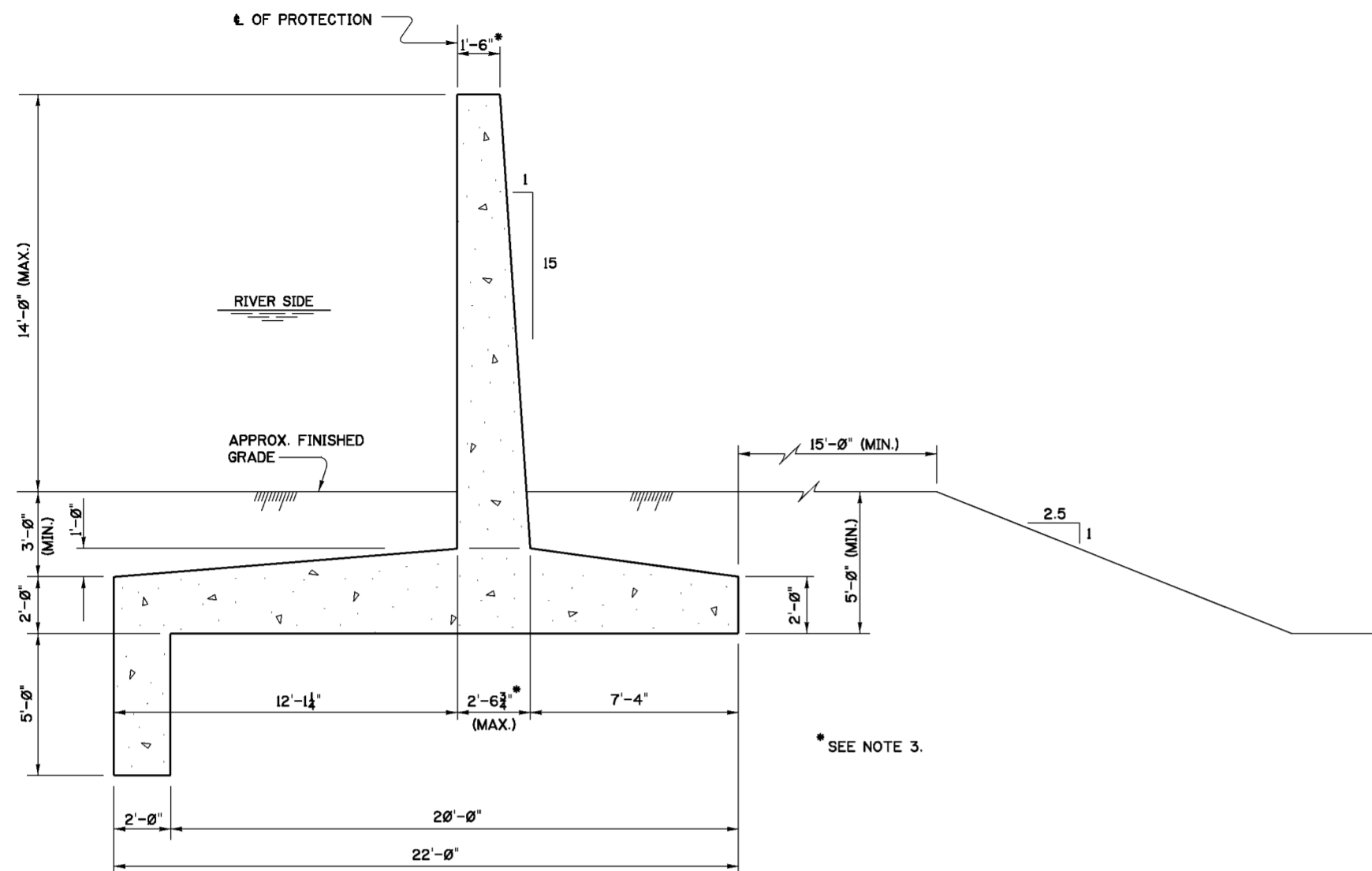


Revisions			
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◁ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B. MOORE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>M. HEMMERICH</b>	<b>I-71 CROSS SECTIONS</b> <b>171+00 TO 173+50</b>		
Reviewed by:			
Approved by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>1678</b>	FILENAME: PEN TABLE: aao1a25.dgn b.tbl l.plt
	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>25</b> of <b>26</b>

WORK AS CONSTRUCTED

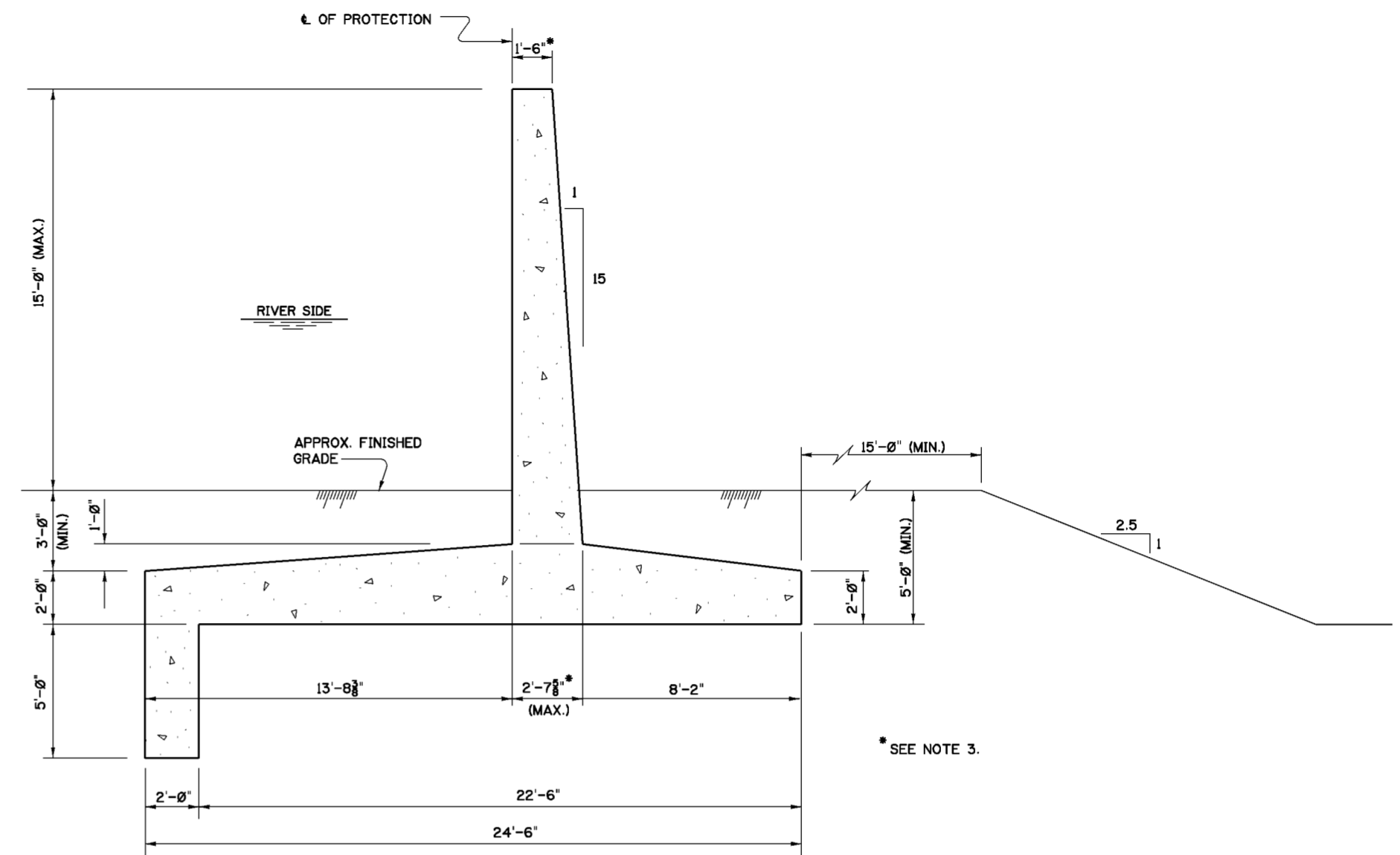


Revisions			
Symbol	Descriptions	Date	Approved
◀ ADDED BY CONTRACT MODIFICATION LETTER MC049 5/03 P.O.C.			
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B.MOORE</b>	 M. HEMMERICH Professional Engineer No. 15747 State of Ohio	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T.MULLINS</b>		<b>I-71 CROSS SECTIONS</b> <b>174+00 TO 174+50</b>	
Checked by: <b>M.HEMMERICH</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>1679</b>
Reviewed by: (blank)	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>26</b> of <b>26</b>
Approved by: (blank)	WORK AS CONSTRUCTED		



**14 FT. FLATBASE WALL 14-T**

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



**15 FT. FLATBASE WALL 15-T**

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

**STRUCTURAL GENERAL NOTES**

1. PROVIDE 1" CHAMFER ON ALL EXPOSED EDGES OR CORNERS, UNLESS OTHERWISE SHOWN.
2. UNLESS OTHERWISE SHOWN OR DIRECTED, BAR BENDING DETAILS SHALL CONFORM TO THE REQUIREMENT OF THE AMERICAN CONCRETE INSTITUTE.
3. CONCRETE COVER FOR REINFORCING BARS SHALL BE 3", UNLESS OTHERWISE SHOWN.
4. REINFORCING STEEL MAY BE SPLICED IN PLACES OTHER THAN SHOWN FOR CONSTRUCTION PURPOSES, SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER.
5. ABBREVIATIONS:  
 B. - BOTTOM  
 T. - TOP  
 E. F. - EACH FACE  
 N. F. - NEAR FACE  
 F. F. - FAR FACE  
 C. J. - CONSTRUCTION JOINT  
 CONTR. J.T. - CONTRACTION JOINT  
 CL. - CLEARANCE  
 (E) - EPOXY-COATED BARS  
 SYMM. - SYMMETRICAL
6. CUT AND HOOK HORIZONTAL AND VERTICAL BARS AT OPENINGS.
7. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
8. ALL SPLICES SHALL BE CLASS B, OBTAINED BY MULTIPLYING DEVELOPMENT LENGTH BY A FACTOR OF 1.3, UNLESS OTHERWISE SHOWN. MECHANICAL SPLICES MAY BE USED IN ACCORDANCE WITH ACI 318-95, SECTION 12.14.
9. DEVELOPMENT LENGTHS AND LAP SPLICES, UNLESS OTHERWISE SHOWN OR DIRECTED SHALL BE AS FOLLOWS:

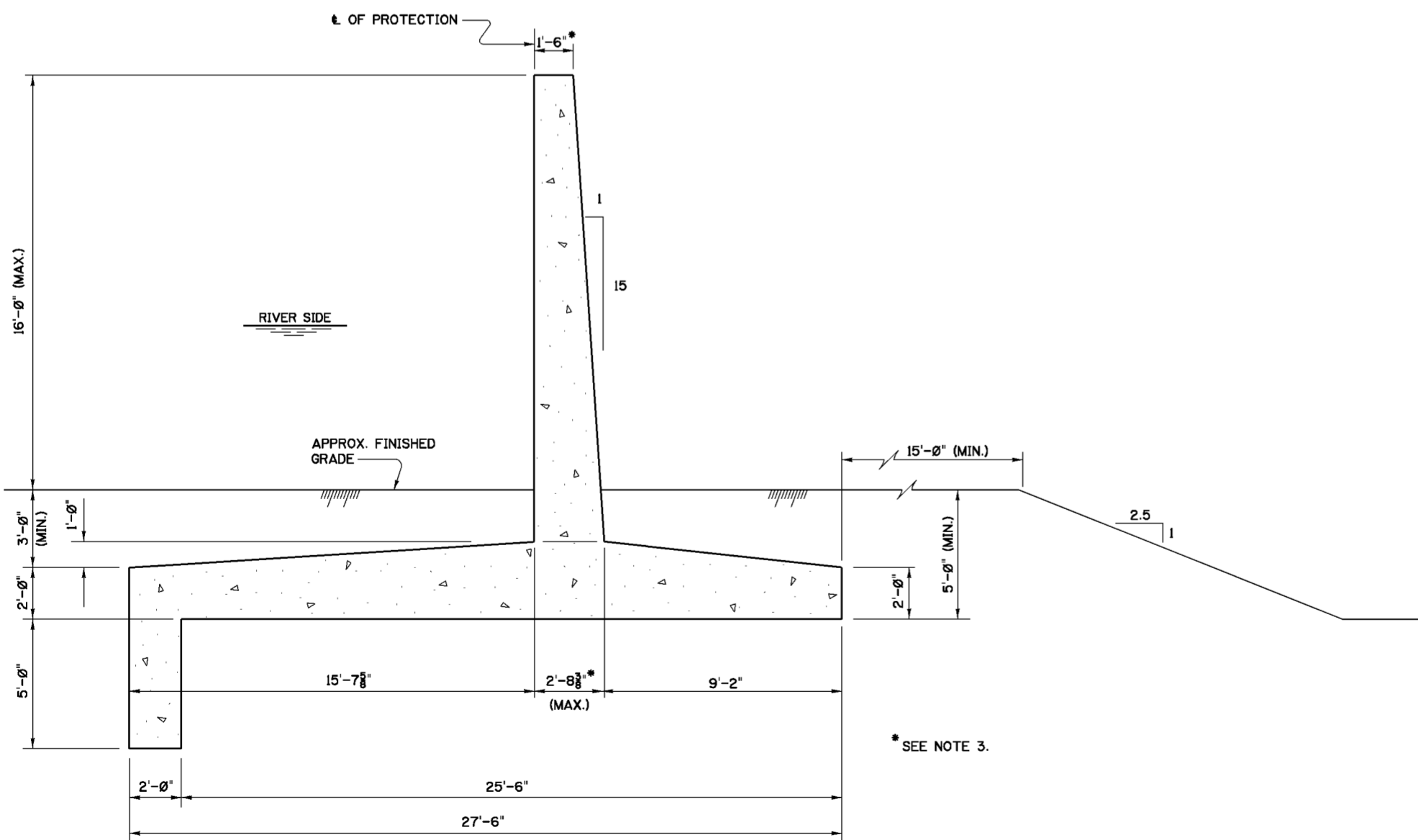
BAR SIZE	DEVELOPMENT LENGTH INCHES *	
	TOP BARS	OTHERS
3	16	12
4	21	16
5	27	21
6	32	25
7	37	29
8	45	35
9	57	44
10	72	56
11	89	68

\* PLUS CLEARANCE

10. BASIC DEVELOPMENT OF SILL TOP REINFORCEMENT SHALL BE INCREASED AS PER ACI 318 FOR EPOXY-COATED BARS.
11. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 3,000 P.S.I. AT 28 DAYS, UNLESS OTHERWISE NOTED.
12. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE D1.1 OR D1.2.
13. THE SIZE OF ALL UNDIMENSIONED FILLET WELDS SHALL BE 1/4".
14. UNLESS OTHERWISE NOTED, ALL ITEMS DESIGNATED AS CORROSION RESISTING STEEL OR C.R.S. SHALL BE STAINLESS STEEL.

**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR REINFORCEMENT DETAILS SEE DWG. 20.1/5.
3. WALL STEM MASONRY STRUCTURAL DIMENSIONS EXCLUDE CAP DETAILS AND FRACTURED FIN SURFACE TREATMENT, SEE DWG. 20.1/13.
4. FOR FINISHED GRADE ELEVATIONS, SEE PLAN AND PROFILE DRAWINGS.
5. FOR METHOD OF PASSING UTILITY PIPES THROUGH WALLS, SEE DWG. 15.5/3.



**16 FT. FLATBASE WALL 16-T**

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

Revisions			
Symbol	Descriptions	Date	Approved

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

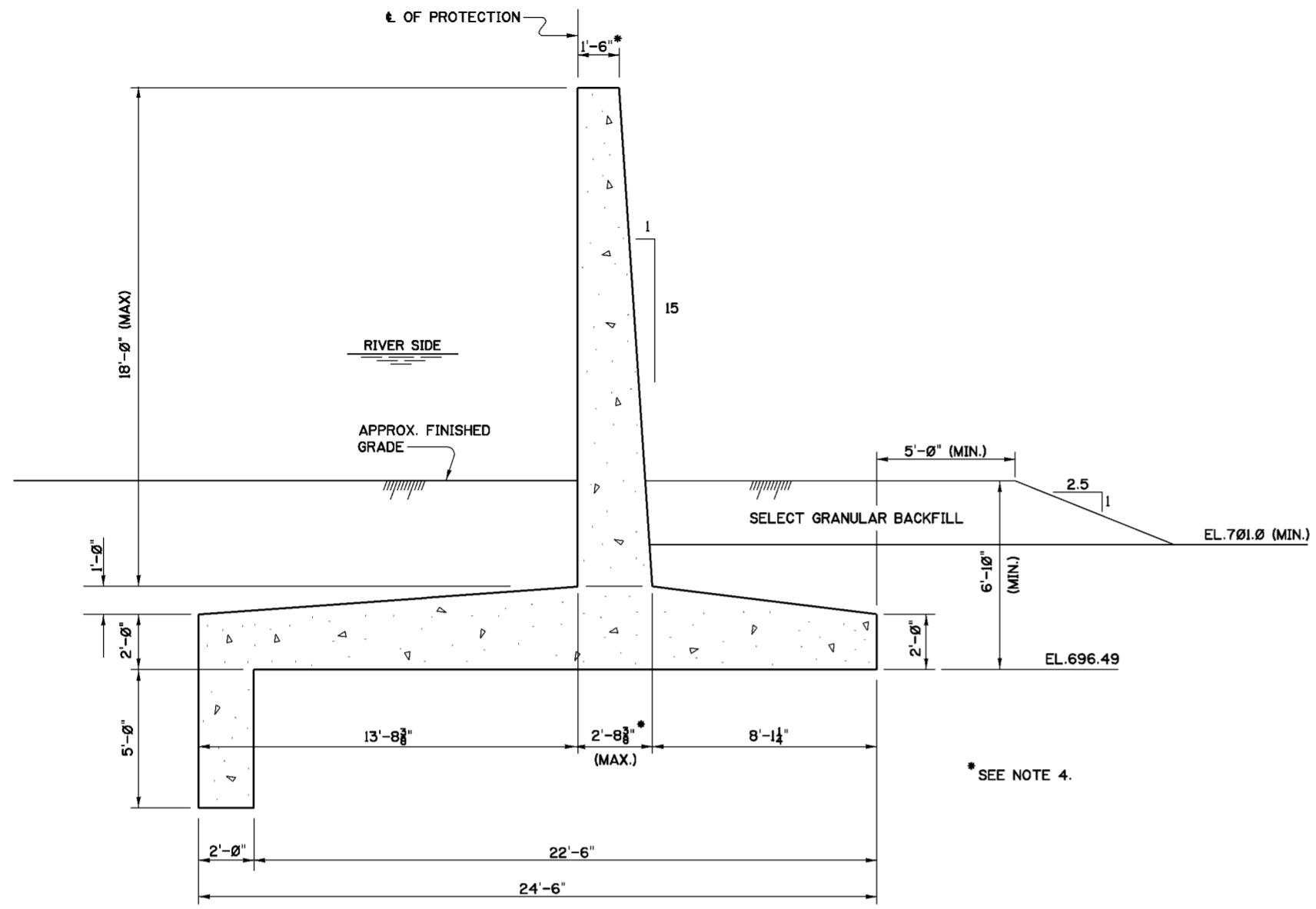
Designed by: M.B.S.  
 Drawn by: M.B.S. B.W.D.  
 Checked by: M.B.S.  
 Reviewed by: M.B.S.  
 Approved by: M.B.S.

SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

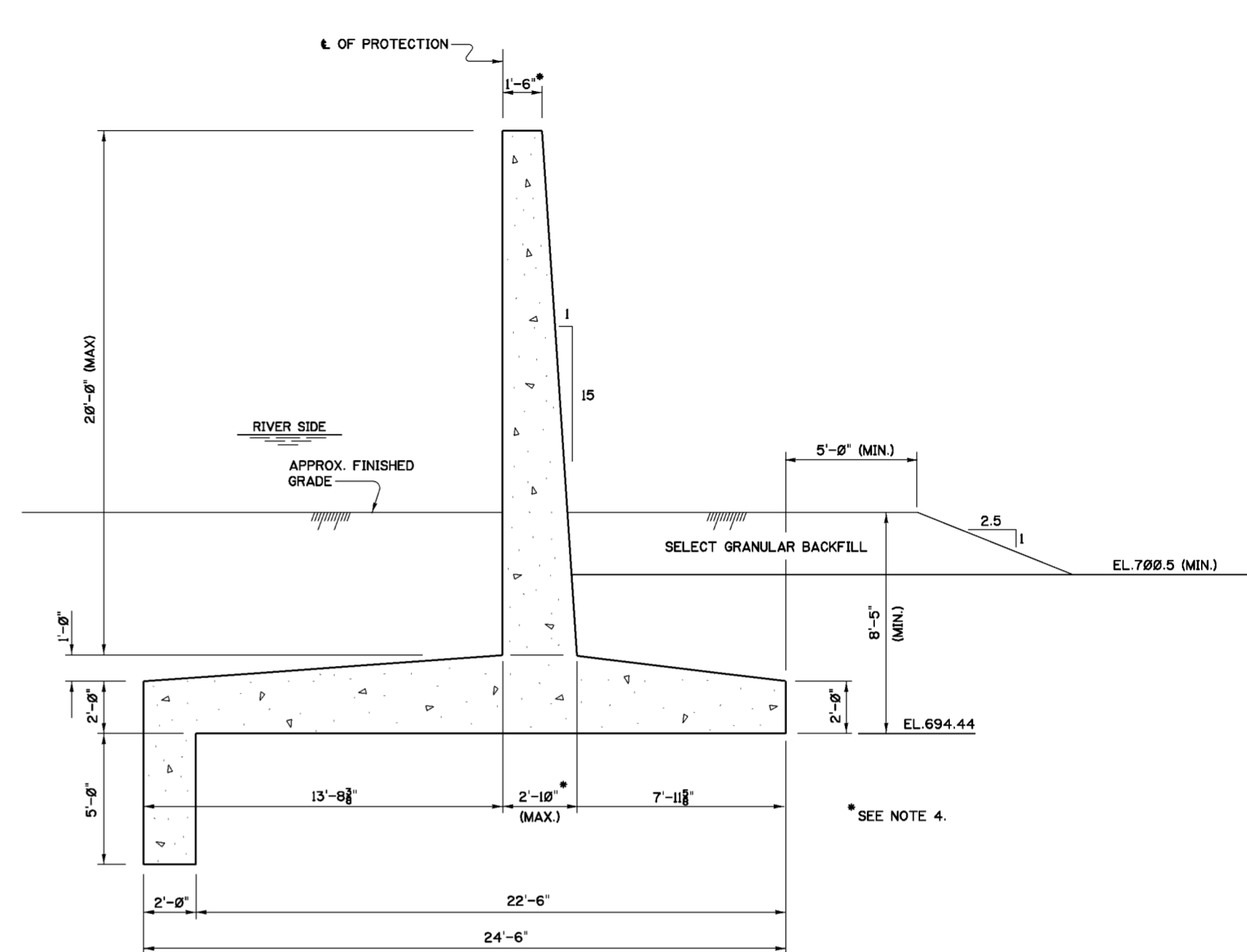
**TYPICAL FLATBASE WALLS  
MASONRY SECTIONS**

Scale: AS SHOWN  
 Date: MARCH 2000  
 Drawing Code: O16-PWC-13

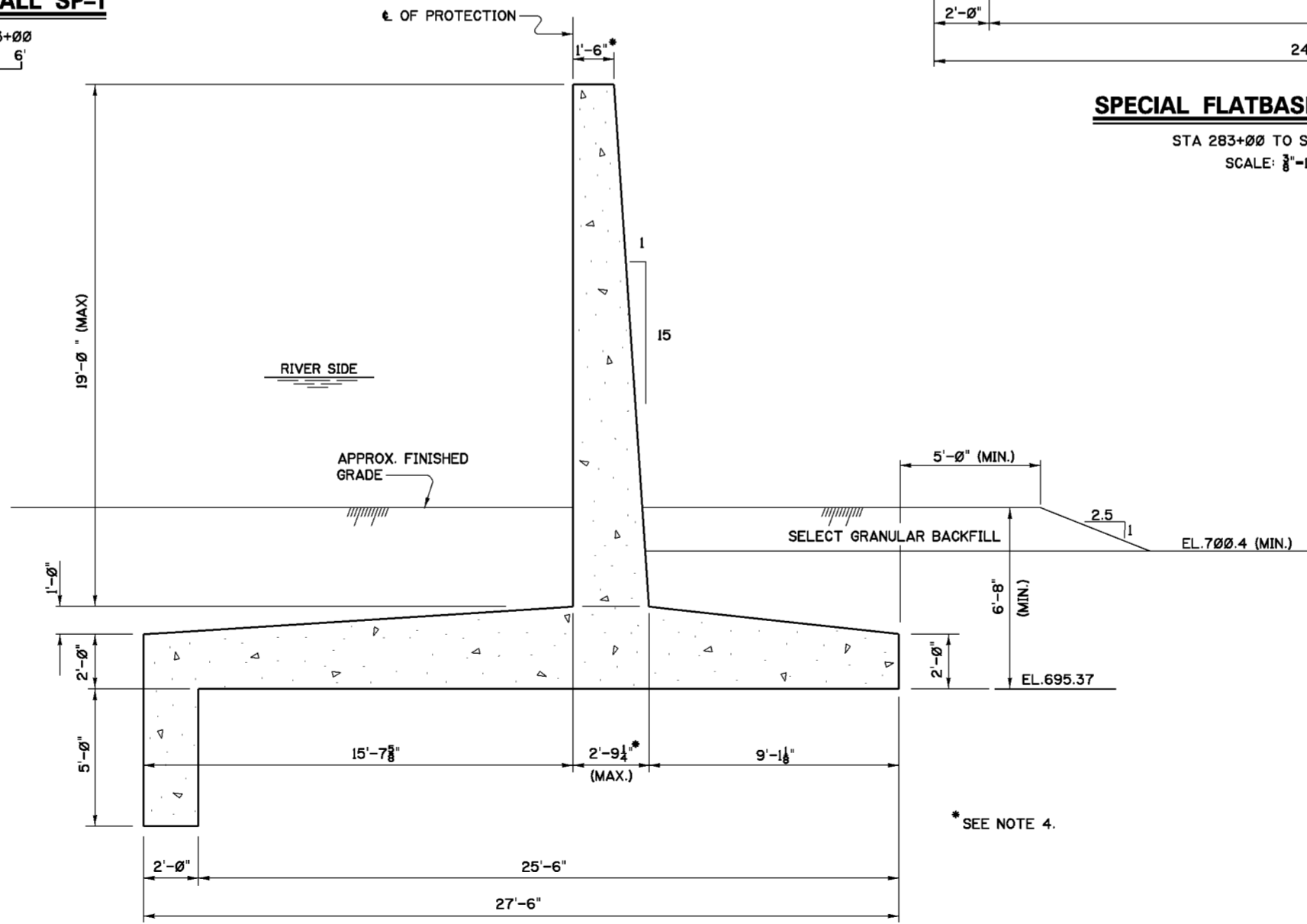
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**SPECIAL FLATBASE WALL SP-1**  
 STA 282+20 TO STA 283+00  
 SCALE: 3/8"=1'-0"



**SPECIAL FLATBASE WALL SP-2**  
 STA 283+00 TO STA 284+60  
 SCALE: 3/8"=1'-0"



**SPECIAL FLATBASE WALL SP-3**  
 STA 284+60 TO STA 288+40  
 SCALE: 3/8"=1'-0"

**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DRAWING 20.1/1.
3. FOR REINFORCEMENT DETAILS SEE DWG. 20.1/6.
4. WALL STEM MASONRY STRUCTURAL DIMENSIONS EXCLUDE CAP DETAILS AND FRACTURED FIN SURFACE TREATMENT, SEE DWG. 20.1/13.
5. FOR FINISHED GRADE ELEVATIONS SEE PLAN AND PROFILE DRAWINGS.
6. FOR METHOD OF PASSING UTILITY PIPES THROUGH WALLS, SEE DWG. 15.5/3.

Revisions			
Symbol	Descriptions	Date	Approved

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

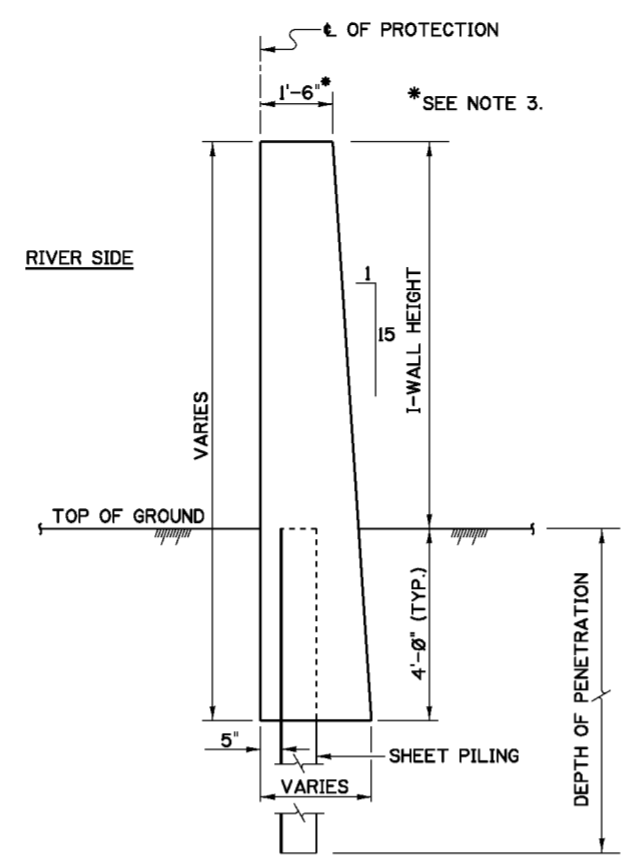
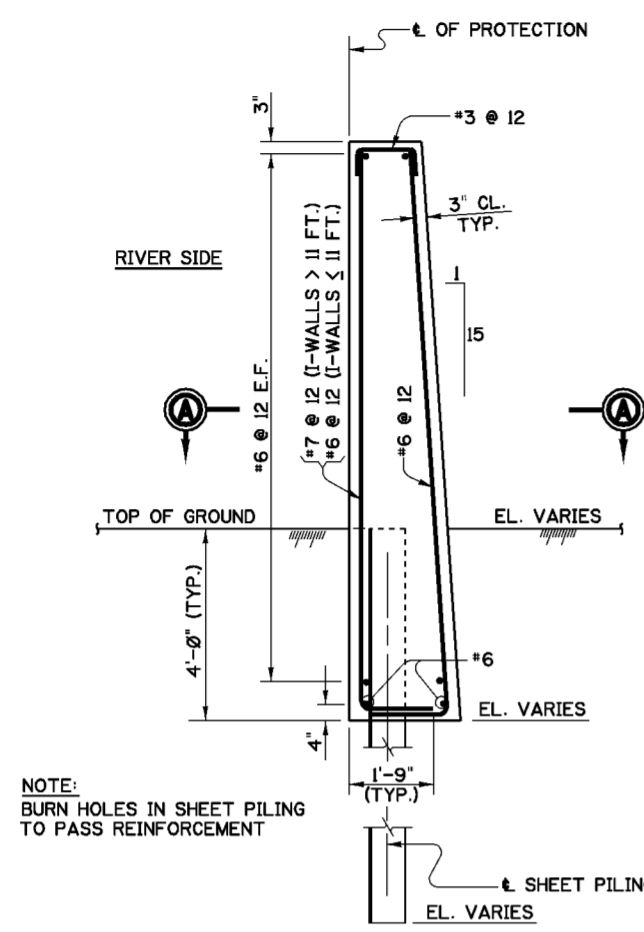
Designed by: M.B.S. SCOTO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS L.P.P.  
 PHASE III B

Drawn by: B.W.D. **SPECIAL FLATBASE WALLS  
 MASONRY SECTIONS**

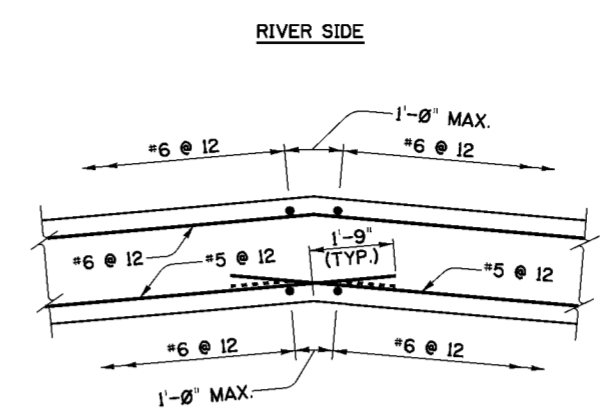
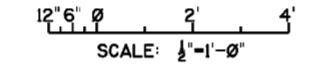
Checked by: M.B.S.

Reviewed by: Scale: AS SHOWN Sheet reference number: FILENAME: 20L2.dgn  
 Date: MARCH 2000 PEN TABLE:

Approved by: Drawing Code: O16-PWC-13 20.1/2 Sheet of



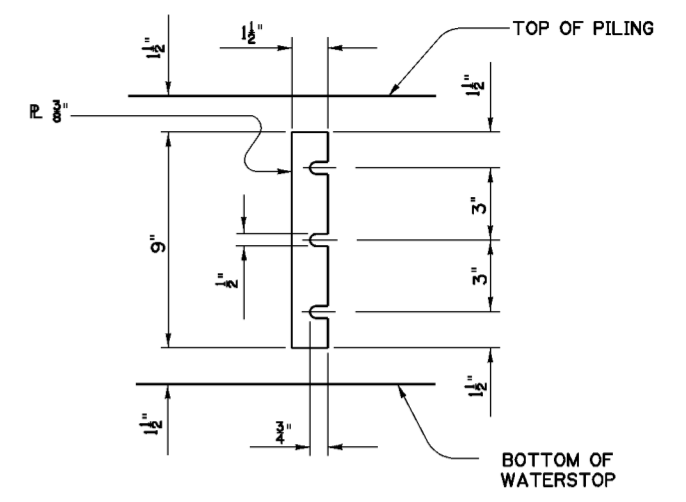
**TYPICAL I-WALL SECTIONS**



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

**TYPICAL CORNER MONOLITH**

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

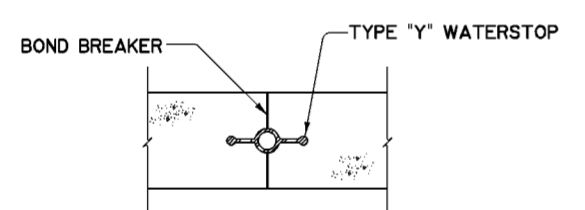


**CLAMP BAR**

SCALE: 6"=1'-0"

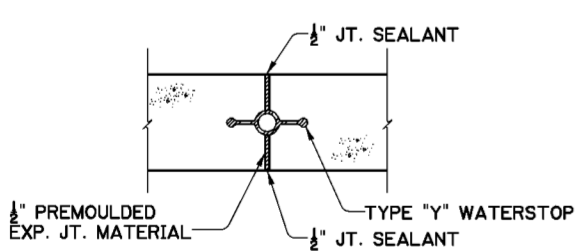
**DESIGN PILE SECTIONS AND DEPTHS OF PENETRATION**

I-WALL HEIGHT (ft.)	DESIGN DEPTH OF PENETRATION (ft.)	PILE SECTION
6.0	9.0	CZ128
7.0	10.0	CZ128
8.0	11.5	CZ128
9.0	13.5	CZ128
10.0	14.5	CZ128
11.0	16.0	CZ128
12.0	16.0	CZ128
13.0	17.0	CZ148
13.0 (ADJACENT TO T-WALL)	17.0	CZ148 W/ 6" x 1/2" PLATES



**TYPICAL TYPE "A" JOINT SECTION A-A**

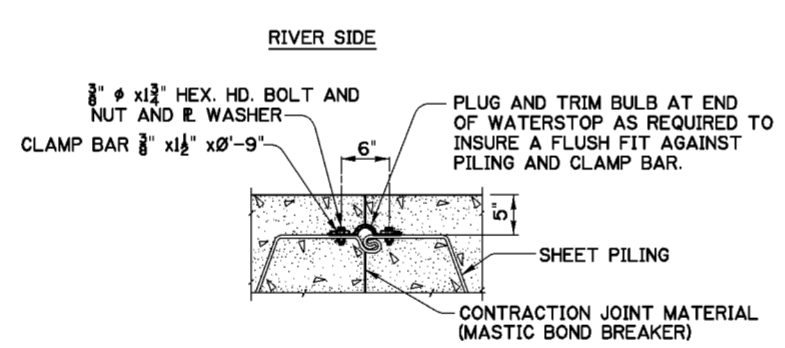
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**TYPICAL TYPE "B" JOINT SECTION A-A**

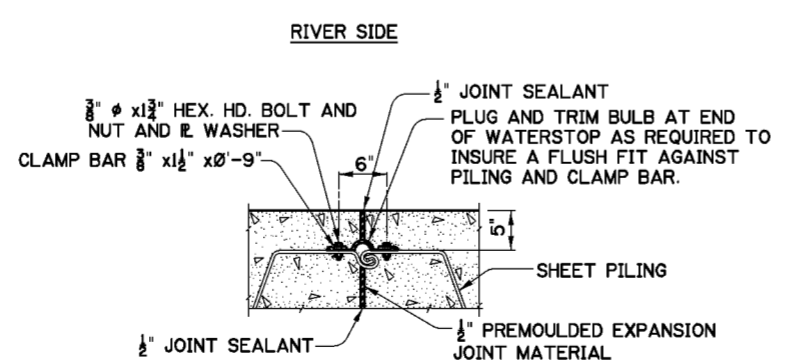
SCALE: 1"=1'-0"

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



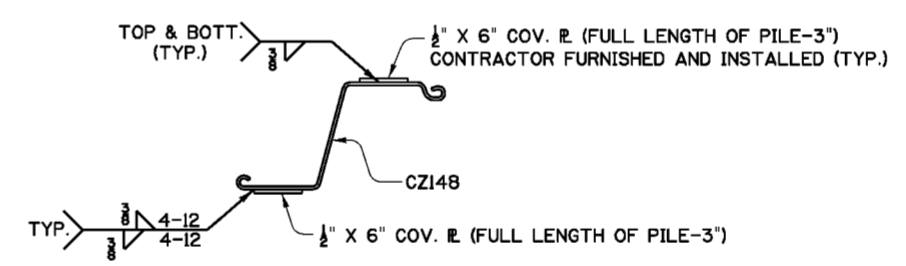
**SECTION B-B TYPE "A" MONOLITH JOINT**

SCALE: 1"=1'-0"



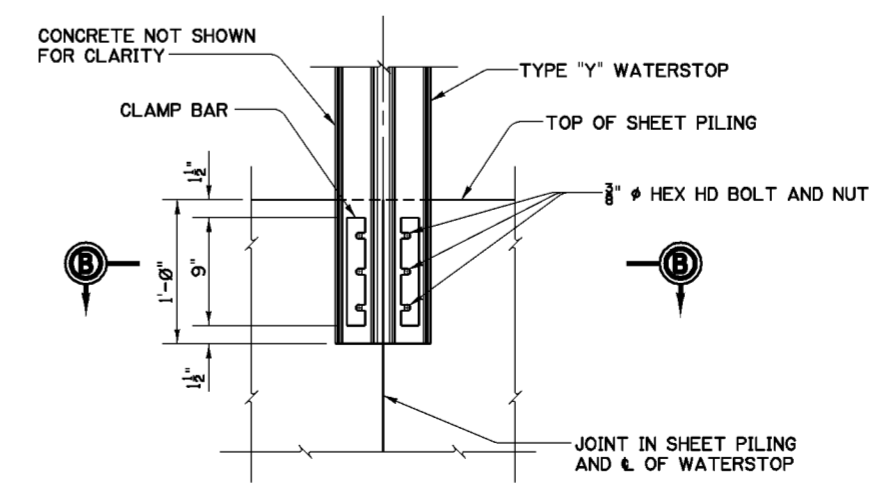
**SECTION B-B TYPE "B" MONOLITH JOINT**

SCALE: 1"=1'-0"



**PILING IN I-WALL MONOLITHS ADJACENT TO T-WALLS**

SCALE: 1"=1'-0"



**PILING-TO-WATERSTOP CONNECTION**

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

**NOTES**

- FOR GENERAL NOTES SEE DRAWING 0/4.
- FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.1/1.
- WALL STEM MASONRY STRUCTURAL DIMENSIONS EXCLUDE CAP DETAILS AND FRACTURED FIN SURFACE TREATMENT, SEE DWG. 20.1/13.
- FOR WATERSTOP DETAILS, SEE DWG. 20.1/4
- CENTER LINES OF MONOLITH JOINTS SHALL COINCIDE WITH CENTER LINES OF SHEET PILING INTERLOCKS.

Symbol	Revisions Descriptions	Date	Approved

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

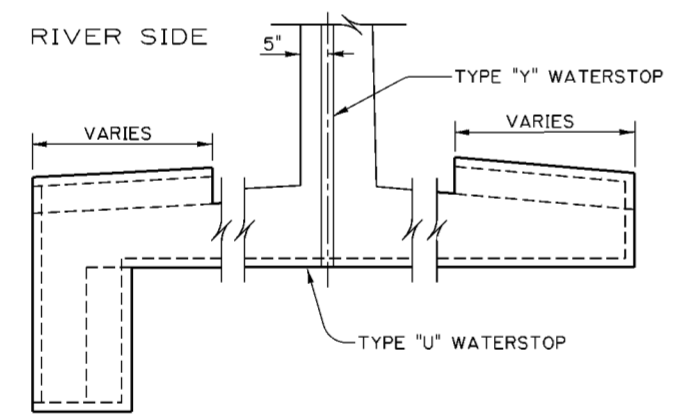
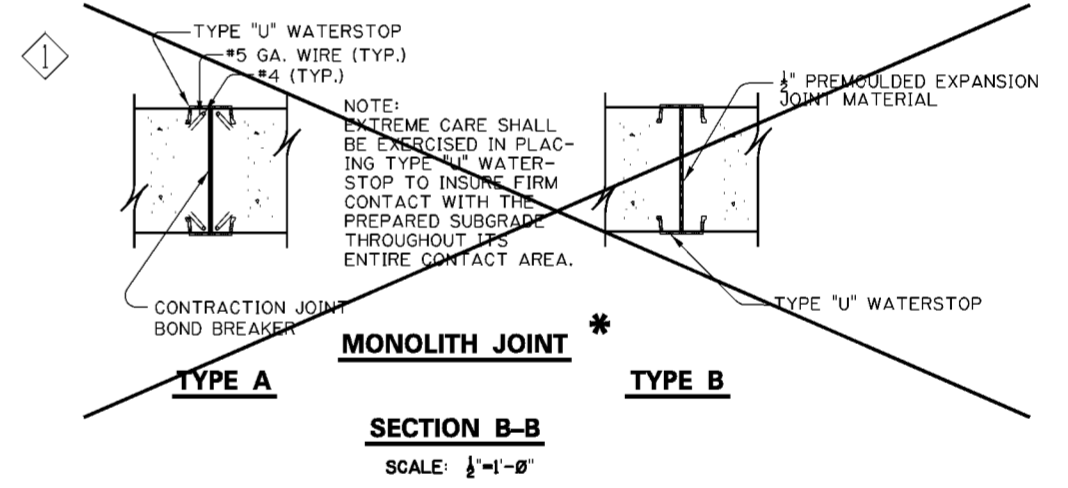
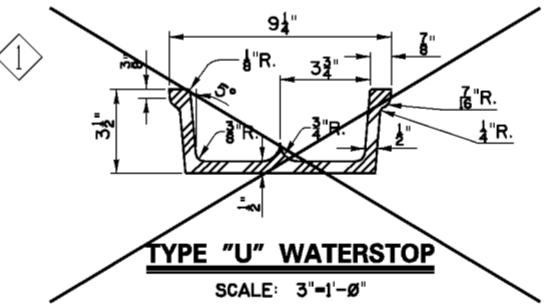
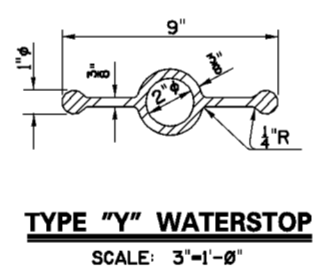
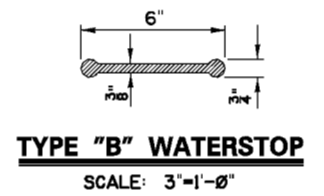
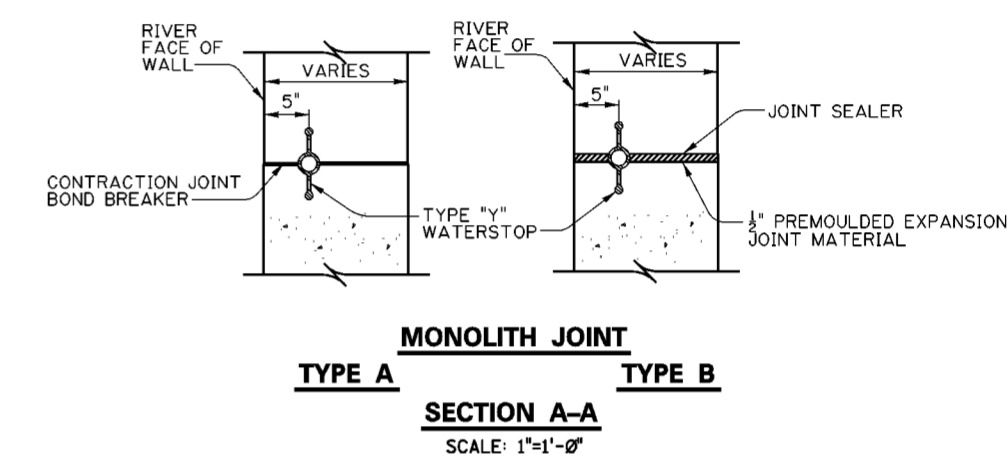
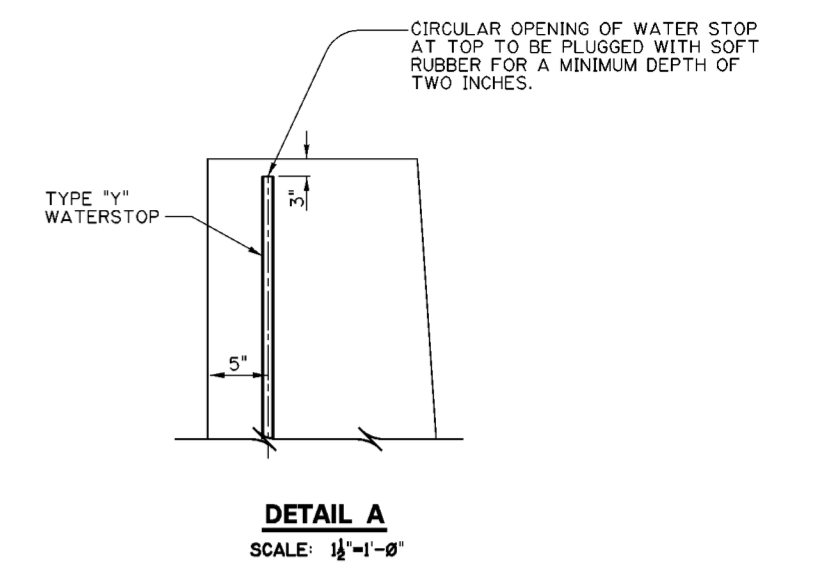
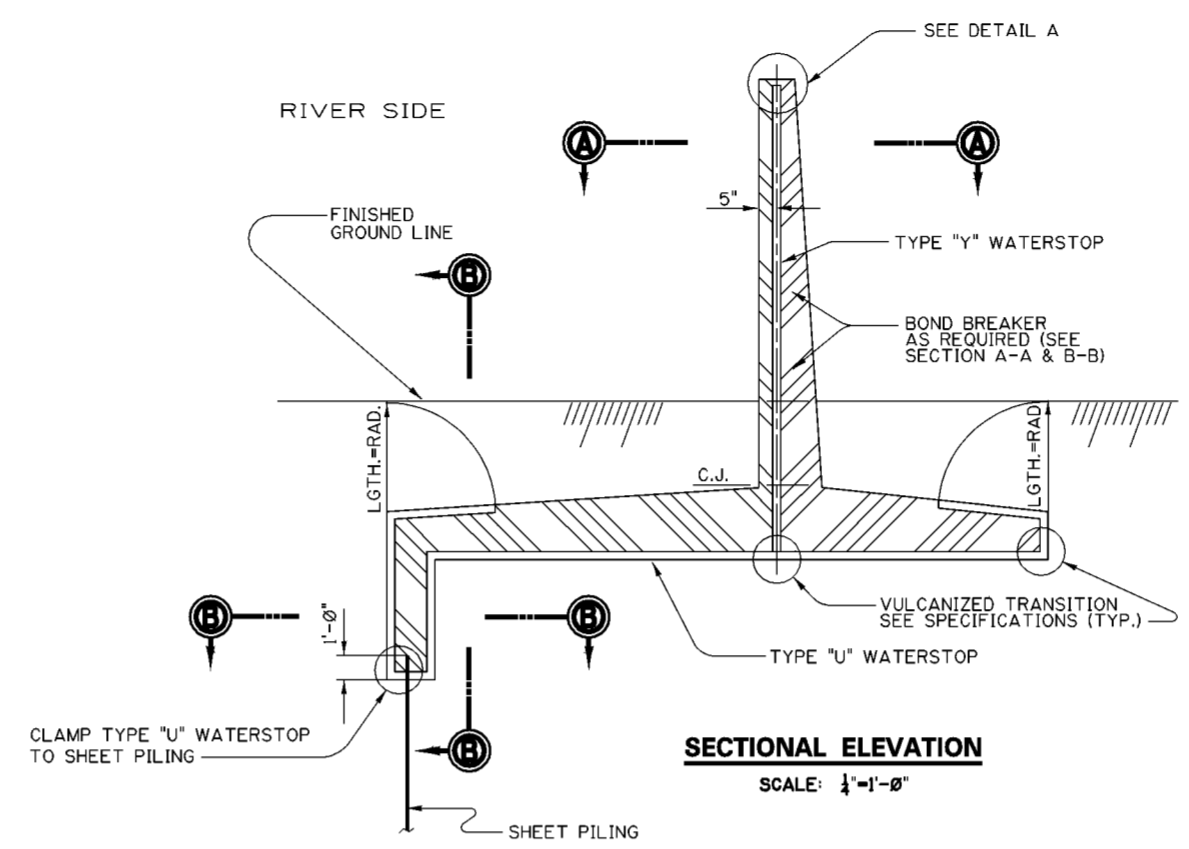
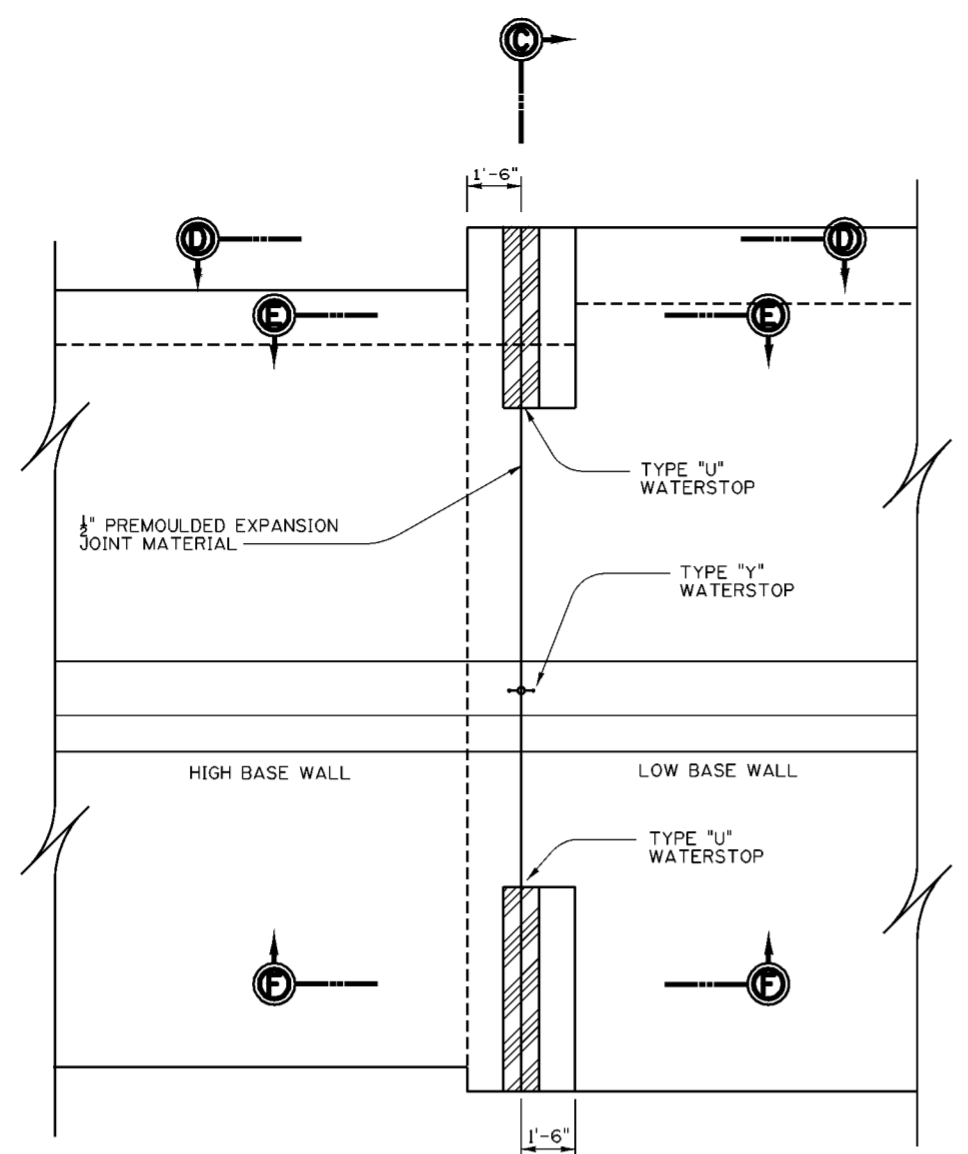
Designed by: D.A.K. M.D.R.      SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B

Drawn by: N.B.M.      **TYPICAL I-WALL DETAILS AND REINFORCEMENT**

Checked by: D.A.K. B.W.D.

Reviewed by: AS SHOWN      Date: MARCH 2000      Sheet reference number: 20.1/3      FILENAME: 20L3.dgn      PEN TABLE:

Approved by:      Drawing Code: O16-PWC-13      20.1/3      Sheet of

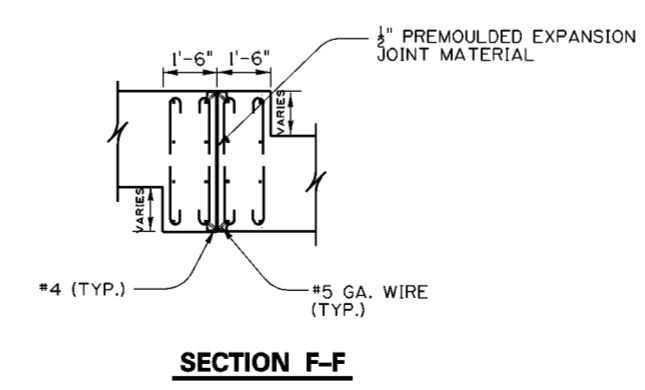
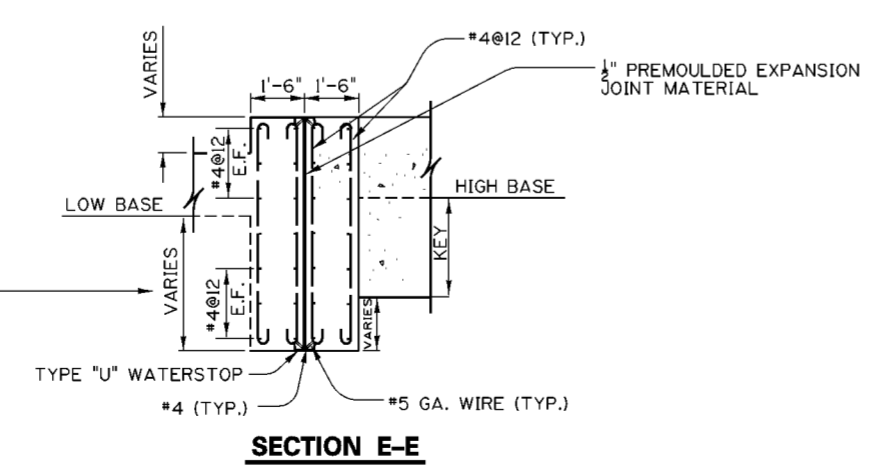
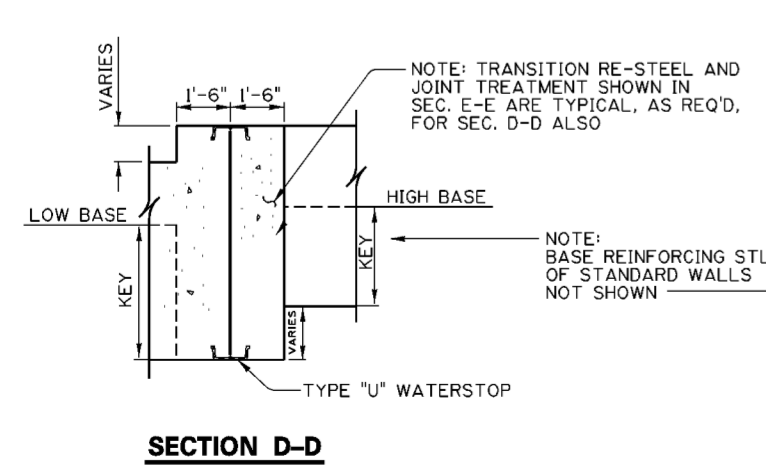


NOTE: OPENINGS IN TOP OF ALL TYPE "Y" WATERSTOPS AND WHERE WATERSTOPS ARE CLAMPED TO SHEET PILING SHALL BE PLUGGED WITH SOFT RUBBER FOR A 2" MIN. DEPTH

\* NOTE: TYPE "U" WATERSTOP WAS DELETED IN LIEU OF TYPE "Y".

**NOTES:**

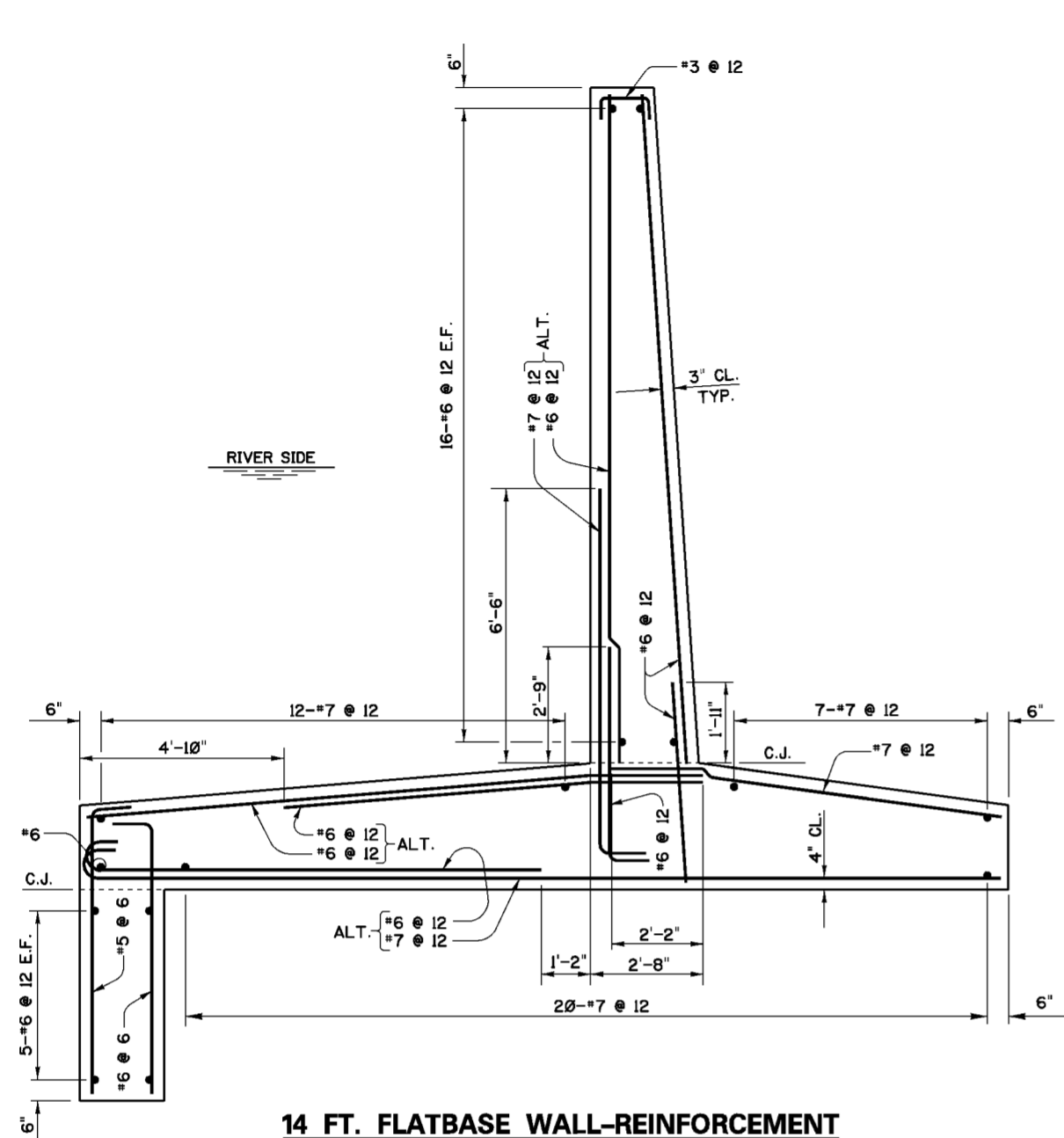
- FOR GENERAL NOTES SEE DWG. 0/4.
- FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.1/1.



**TRANSITIONS AT CHANGES IN WALL HEIGHT**  
SCALE: 3/8"=1'-0"

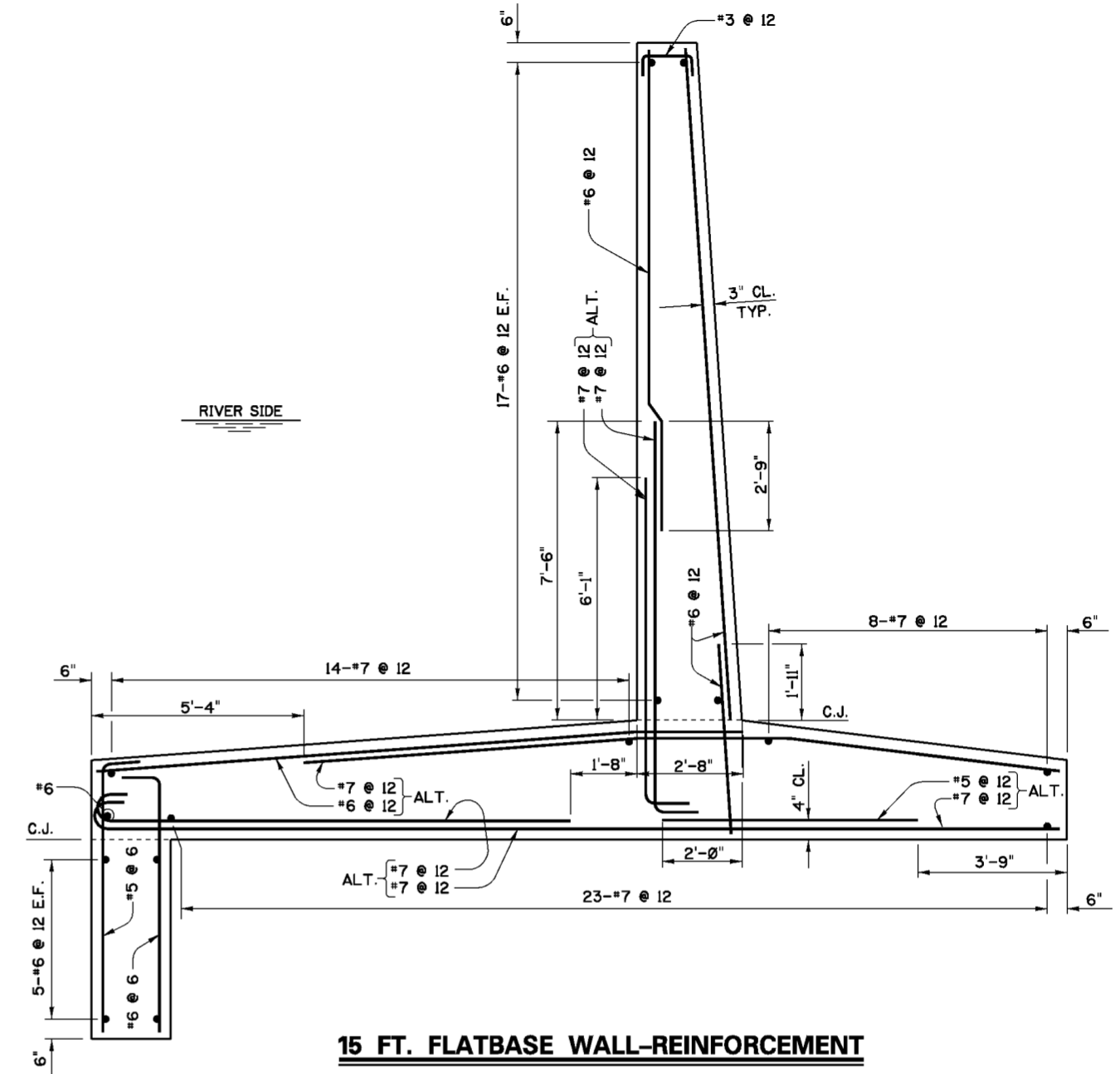
Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
U.S. ARMY ENGINEER DISTRICT CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	B.W.D. M.B.S.	<b>TYPICAL WALL DETAILS WITH WATERSTOP</b> SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB	
Drawn by:	N.B.M.		
Checked by:	B.W.D.		
Reviewed by:	AS SHOWN		
Approved by:	MARCH 2000		
Scale: AS SHOWN Date: MARCH 2000 Drawing Code: O16-PWC-13		Sheet reference number: 20.1/4	FILENAME: a0201.4.dgn PEN TABLE: Sheet of





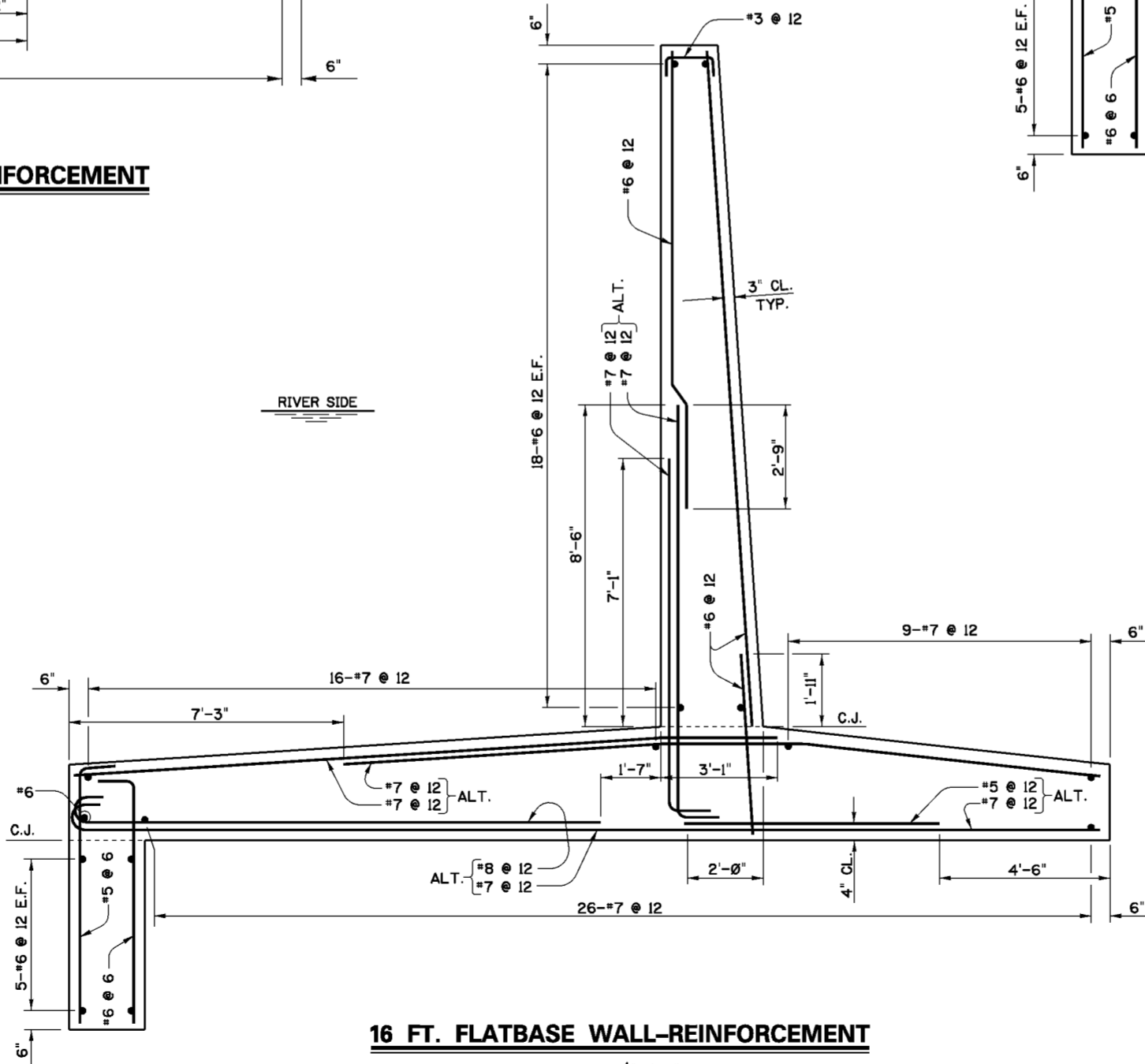
**14 FT. FLATBASE WALL-REINFORCEMENT**

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



**15 FT. FLATBASE WALL-REINFORCEMENT**

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



**16 FT. FLATBASE WALL-REINFORCEMENT**

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

**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DIMENSIONS SEE DWG. 20.1/1.
4. THE CLEAR COVER OF THE WALL STEM REINFORCEMENT EXCLUDES FRACTURED FIN SURFACE TREATMENT.

Revisions			
Symbol	Descriptions	Date	Approved

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

Designed by: M.B.S. SCIOTO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

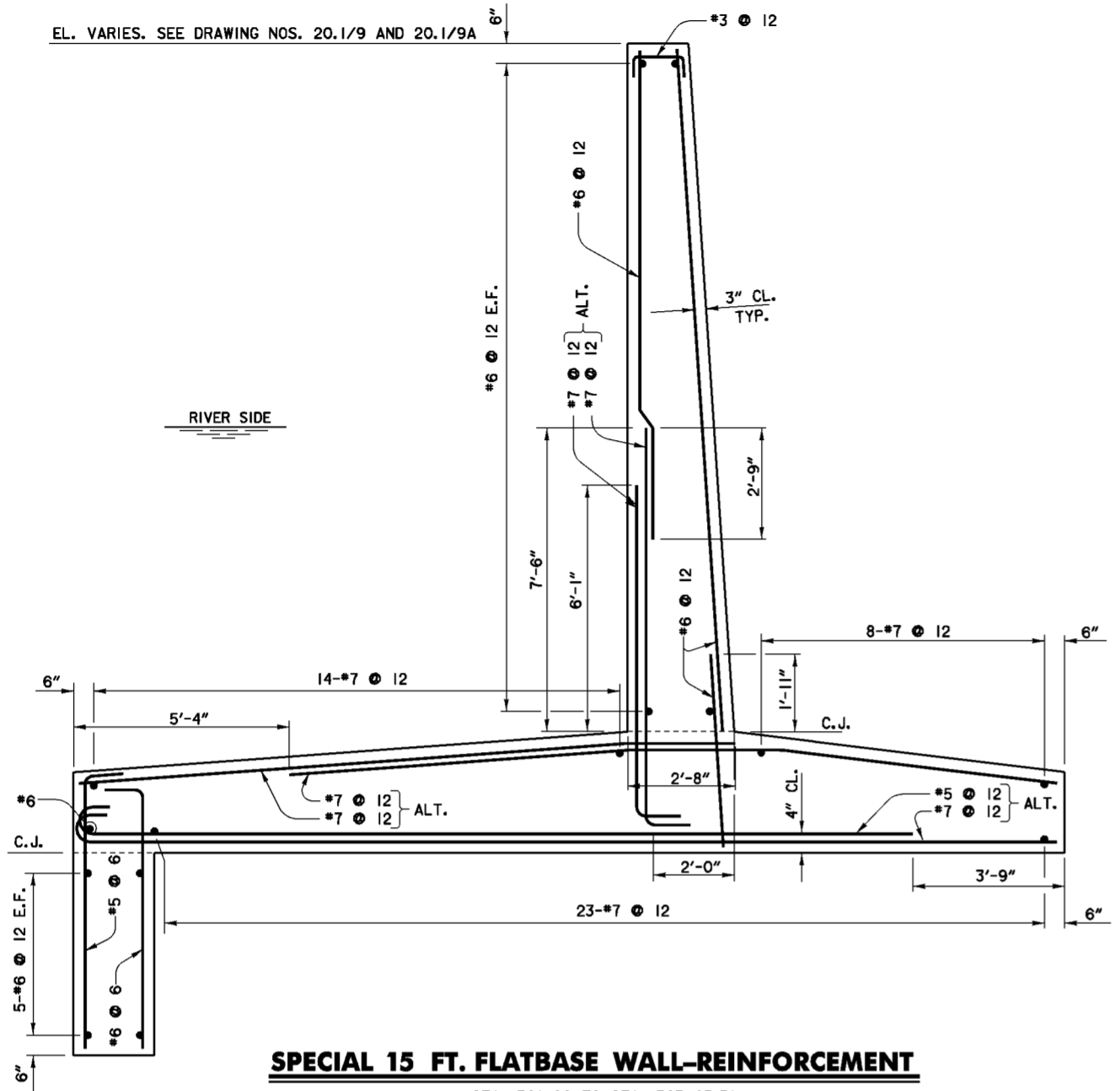
Drawn by: M.B.S. B.W.D. **TYPICAL FLATBASE WALLS  
REINFORCEMENT**

Checked by: M.B.S.

Reviewed by: AS SHOWN  
Date: MARCH 2000  
Drawing Code: O16-PWC-13

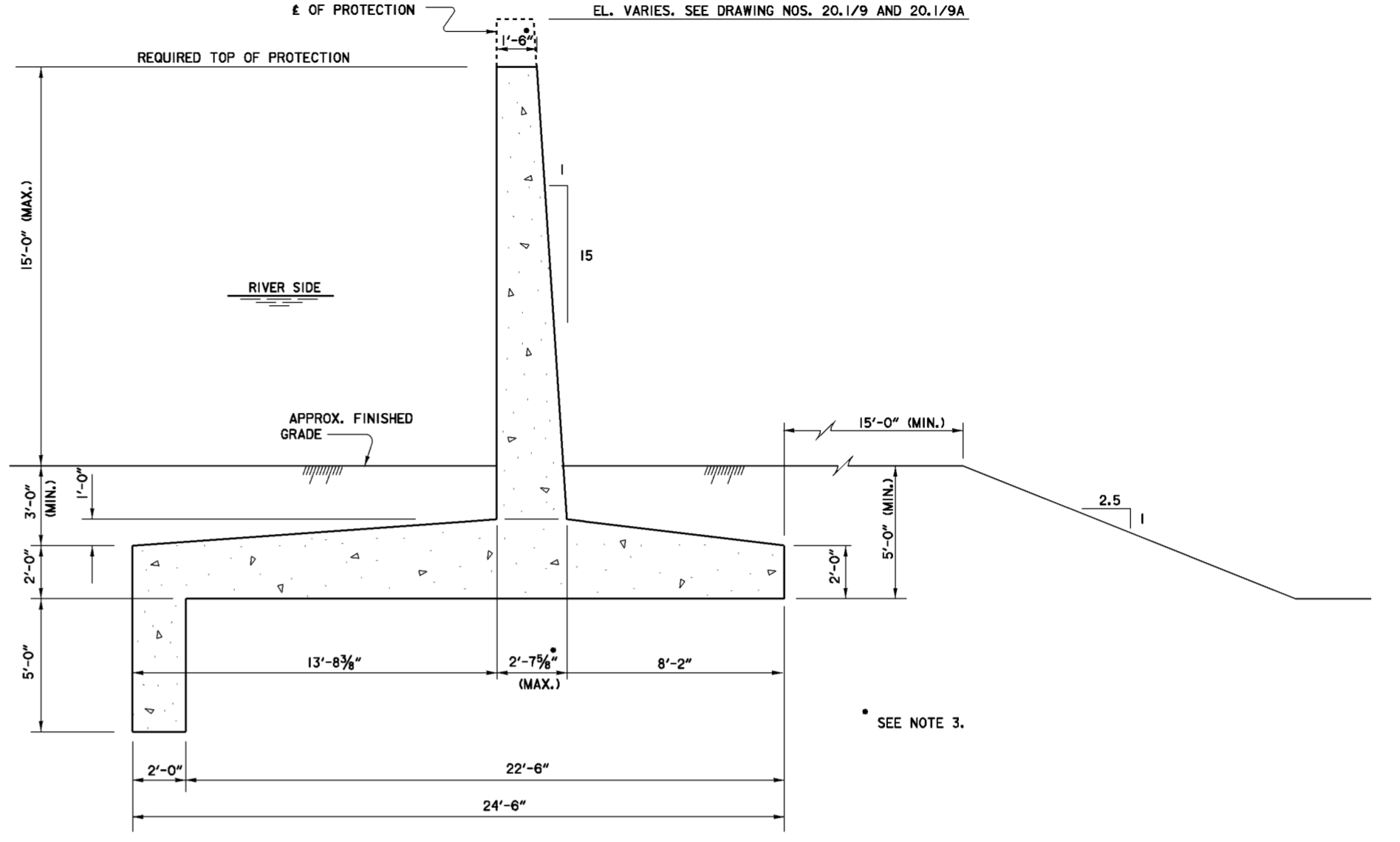
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FILENAME: 20L5.dgn  
PEN TABLE:

Approved by: \_\_\_\_\_  
Sheet of \_\_\_\_\_



**SPECIAL 15 FT. FLATBASE WALL-REINFORCEMENT**

STA. 301+80 TO STA. 303+03.51  
 STA. 303+75.18 TO STA. A 305+40  
 SCALE: 1/2"=1'-0"



**SPECIAL 15 FT. FLATBASE WALL 15-T**

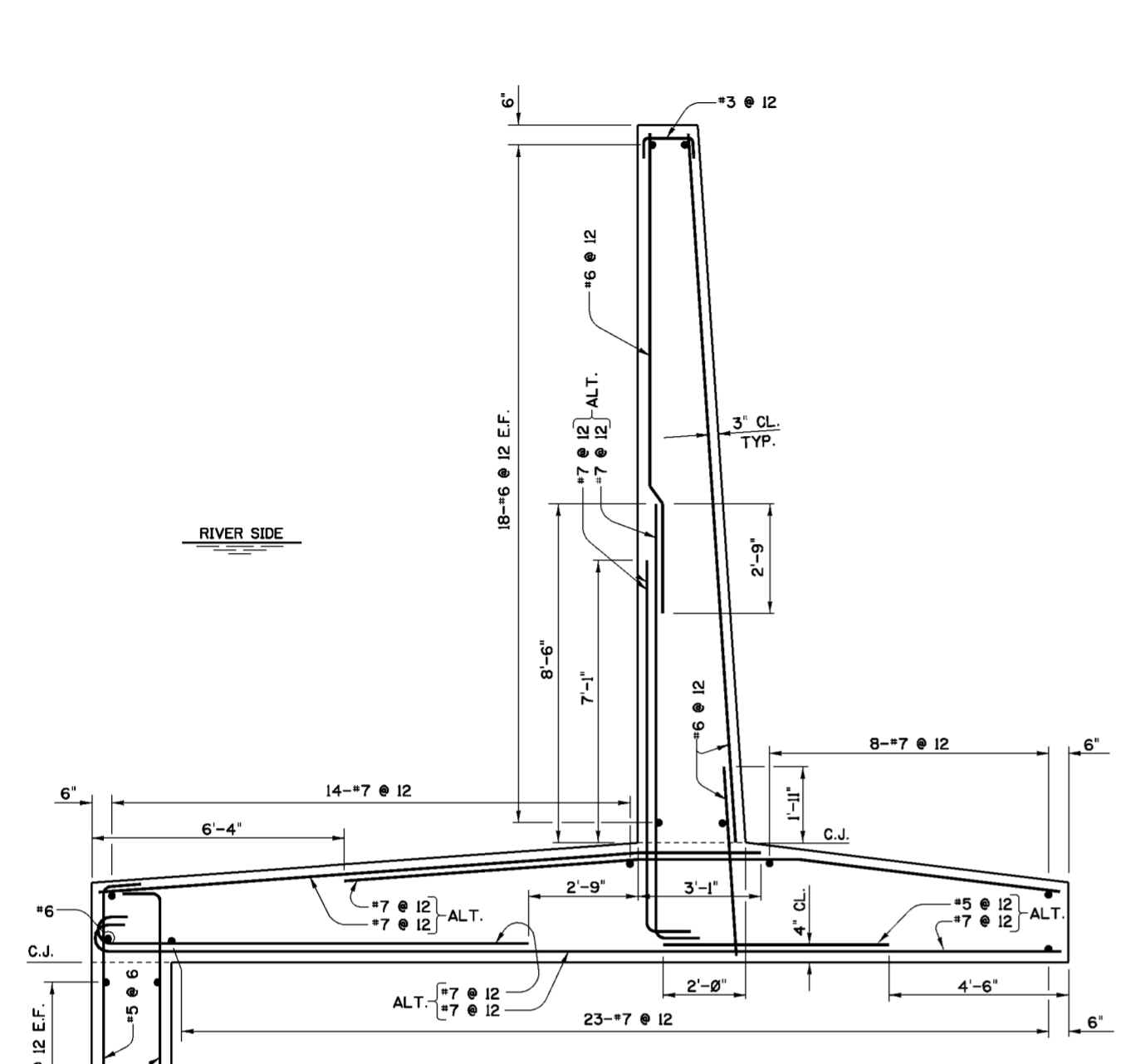
SCALE: 3/8"=1'-0"

SEE NOTE 3.

**NOTES**

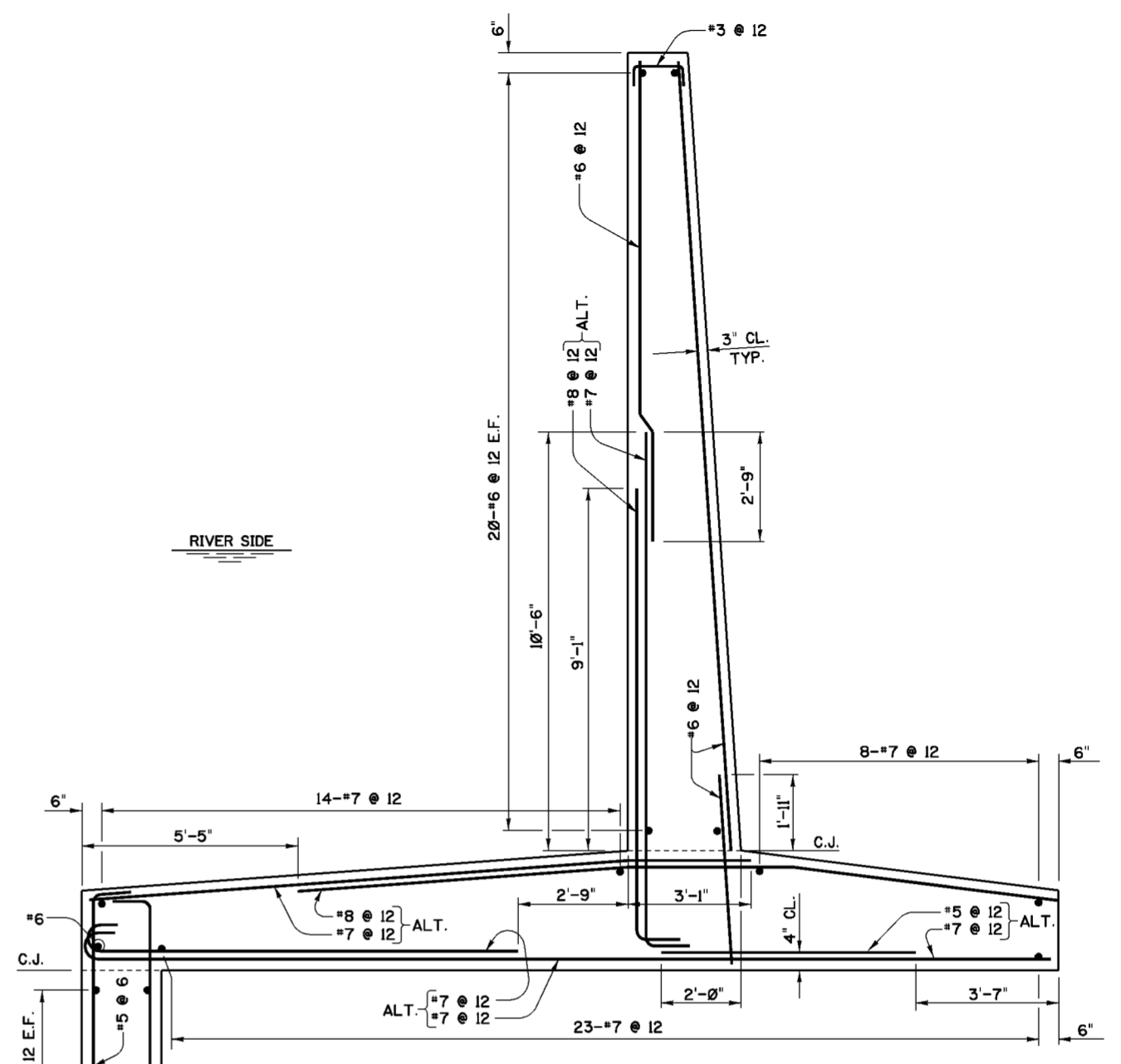
1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DIMENSIONS SEE DWG. 20.1/1.
4. THE CLEAR COVER OF THE WALL STEM REINFORCEMENT EXCLUDES FRACTURED FIN SURFACE TREATMENT.

Revisions			
Symbol	Descriptions	Date	Approved
ADDED BY CONTRACT MODIFICATION LETTER MCO02 6/01 P.O.C.			
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	L.E.L.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIB <b>TYPICAL FLATBASE WALLS                      REINFORCEMENT</b>	
Drawn by:	T.L.M.		
Checked by:	C.E.M.		
Reviewed by:			
Approved by:		Scale: AS SHOWN	Sheet Reference number:
		Date: MARCH 2000	FILENAME: 201_5a.dgn
		Drawing Code: 016-PWC-13	20.1/5A
		PEN TABLE:	
		Sheet of	



**SPECIAL FLATBASE WALL SP 1  
REINFORCEMENT**

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

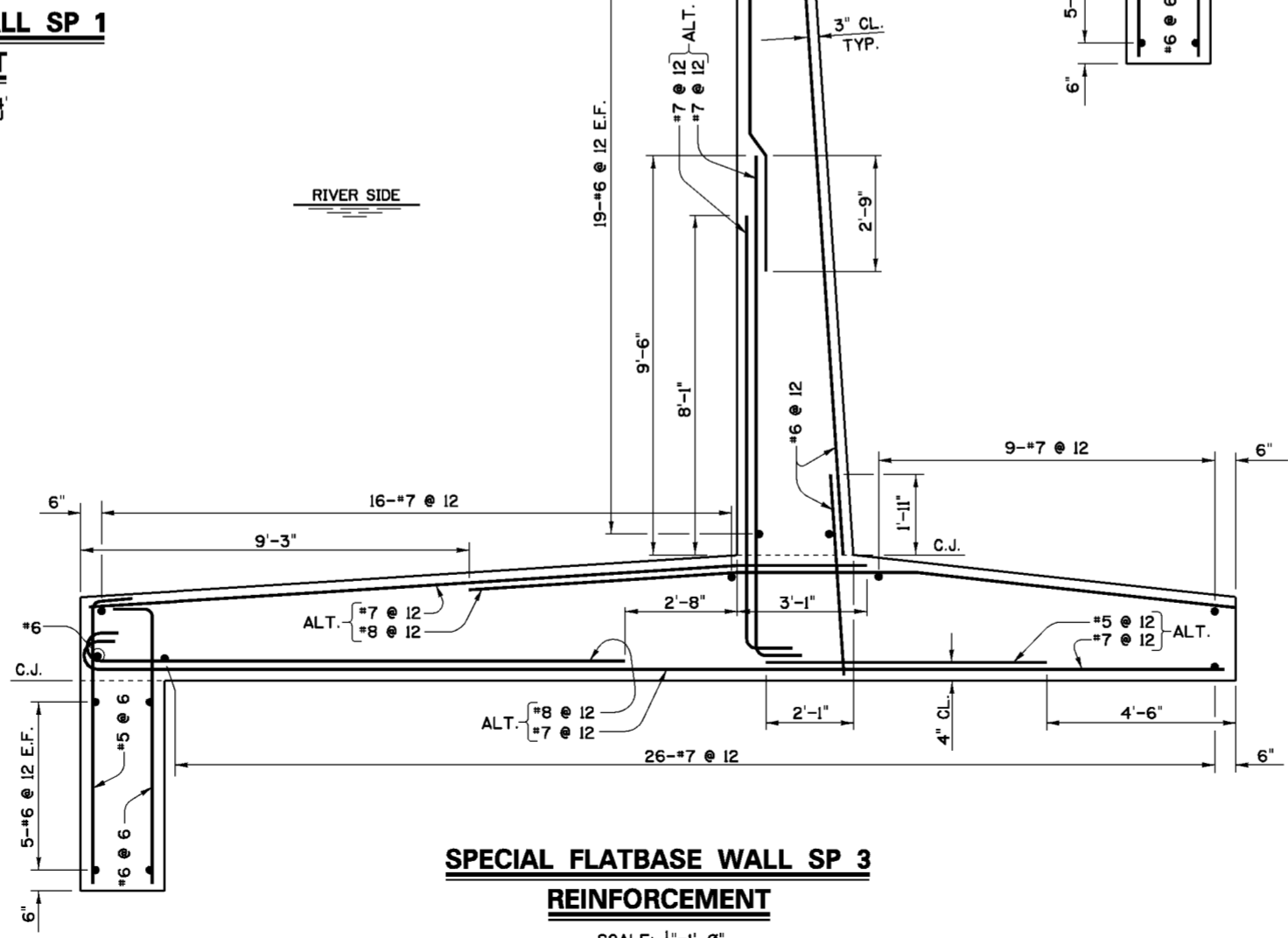


**SPECIAL FLATBASE WALL SP 2  
REINFORCEMENT**

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

**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DIMENSIONS SEE DWG. 20.1/2.
4. THE CLEAR COVER OF THE WALL STEM REINFORCEMENT EXCLUDES FRACTURED FIN SURFACE TREATMENT.



**SPECIAL FLATBASE WALL SP 3  
REINFORCEMENT**

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

Revisions			
Symbol	Descriptions	Date	Approved

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

Designed by: M.B.S. SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

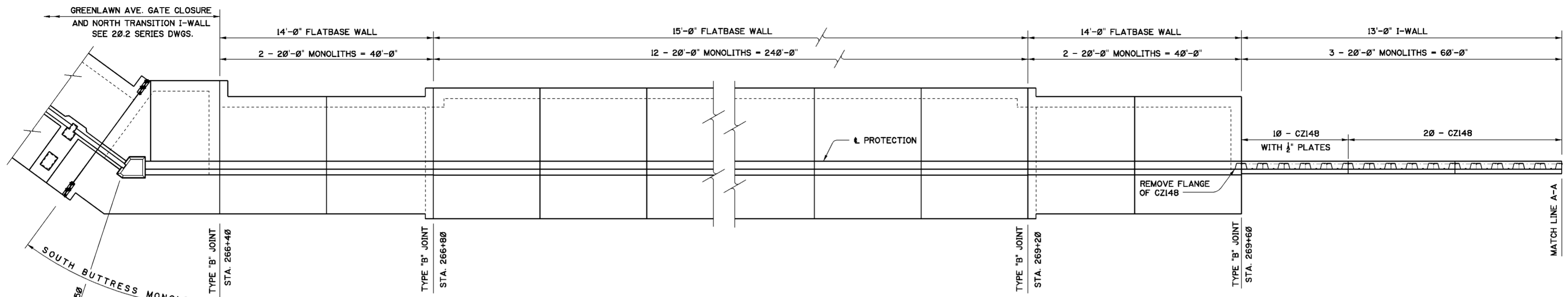
Drawn by: M.B.S. B.W.D. **SPECIAL FLATBASE WALLS  
REINFORCEMENT**

Checked by: M.B.S.

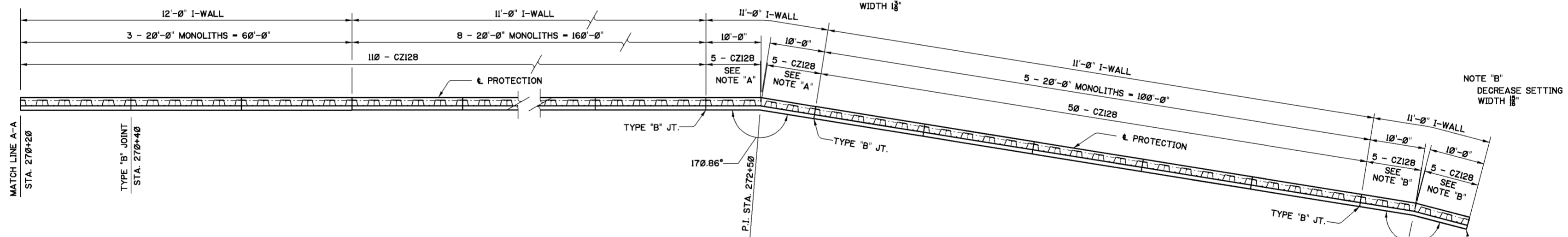
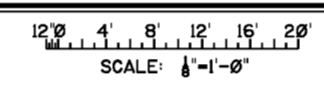
Reviewed by: AS SHOWN  
Date: MARCH 2000  
Drawing Code: O16-PWC-13

Sheet reference number: 20.1/6  
FILENAME: 20L6.dgn  
PEN TABLE:

Approved by: \_\_\_\_\_  
Sheet \_\_\_\_\_ of \_\_\_\_\_



**PLAN - STA. 266+40 TO STA. 270+20**



**PLAN - STA. 270+20 TO STA. 273+80**



TYPE "B" JOINT STATIONS							
266+40	274+80	283+80	294+20	304+40	314+80	324+00	332+40
266+80	275+80	284+60	295+00	305+20	315+60	324+80	333+20
267+60	275+80	285+40	295+80	306+00	316+40	325+60	334+00
268+40	276+60	286+20	296+60	306+80	317+20	326+40	334+80
269+20	277+40	287+00	297+40	307+60	318+00	327+20	335+60
269+60	278+20	287+80	298+20	308+40	318+80	327+80	335+80
270+40	279+00	288+40	299+00	309+20	319+60	328+00	
271+20	279+80	289+20	299+80	310+00	320+40	328+80	
272+00	280+60	290+00	300+60	310+80	320+90	329+00	
272+40	281+20	290+80	301+40	311+60	321+00	329+80	
272+60	281+40	291+60	302+20	312+40	321+60	330+60	
273+60	282+20	292+60	302+79.18	313+20	322+40	331+40	
273+80	283+00	293+40	303+50.85	314+00	323+20	332+20	

NOTE: ALL OTHER JOINTS SHOWN BUT NOT SPECIFIED IN THE ABOVE TABLE SHALL BE TYPE "A" JOINTS. SEE DWGS 20.1/3 AND 20.1/4 FOR DETAILS.

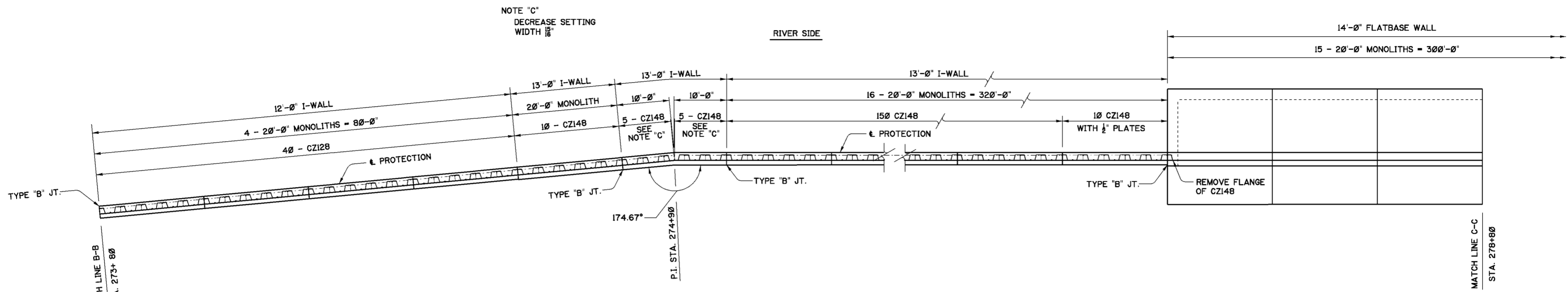
**NOTES**

- FOR GENERAL NOTES SEE DWG. 0/4.
- FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
- INCREASE OR DECREASE SHEET PILE SETTING WIDTHS AS NECESSARY TO MAINTAIN INTERLOCKS ON CENTERLINE OF MONOLITH JOINTS.
- FOR TOP OF PROTECTION ELEVATIONS AND BOTTOM OF SHEET PILE ELEVATIONS SEE 16 SERIES DRAWINGS.
- FOR DEPTHS OF PILE PENETRATION CORRESPONDING TO I-WALL HEIGHTS SEE TABLE ON DWG. 20.1/3
- STATIONS AT THE INTERSECTION POINTS (P.I.'s) ARE SHOWN ALONG THE  $\epsilon$  OF PROTECTION.

Revisions			
Symbol	Descriptions	Date	Approved

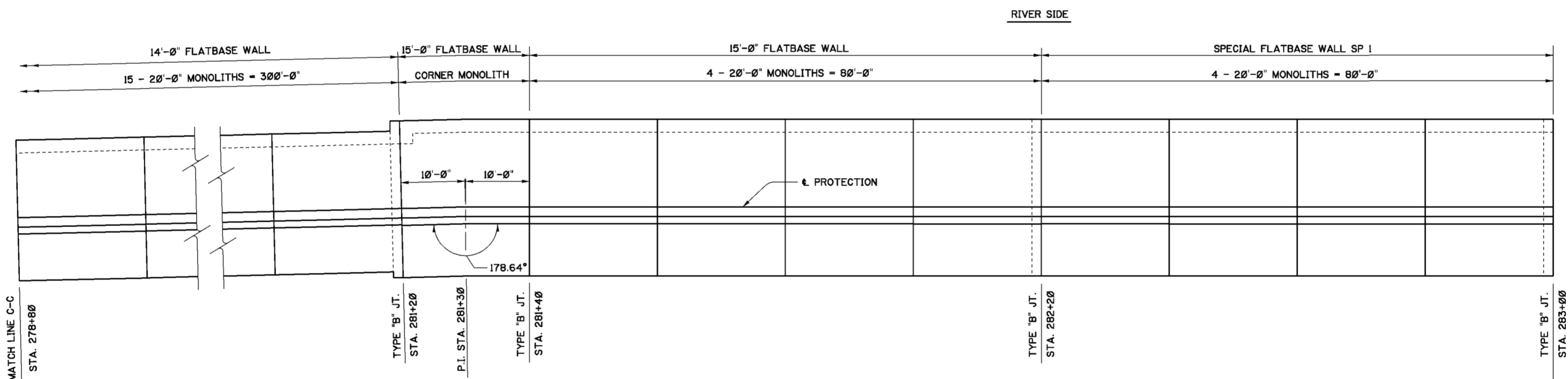
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
HUNTINGTON, WEST VIRGINIA

Designed by: M.B.S. B.W.D.		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B
Drawn by: B.W.D.		
Checked by: M.B.S.		
Reviewed by:	Scale: AS SHOWN	Sheet reference number: 20.1/7
Approved by:	Date: MARCH 2000	FILENAME: PEN TABLE: 20L7.dgn
	Drawing Code: O16-PWC-13	Sheet of



**PLAN - STA. 273+80 TO STA. 278+80**

12' 0" 4' 8' 12' 16' 20'  
SCALE: 1/8"=1'-0"



**PLAN - STA. 278+80 TO STA. 283+00**

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

**NOTES**

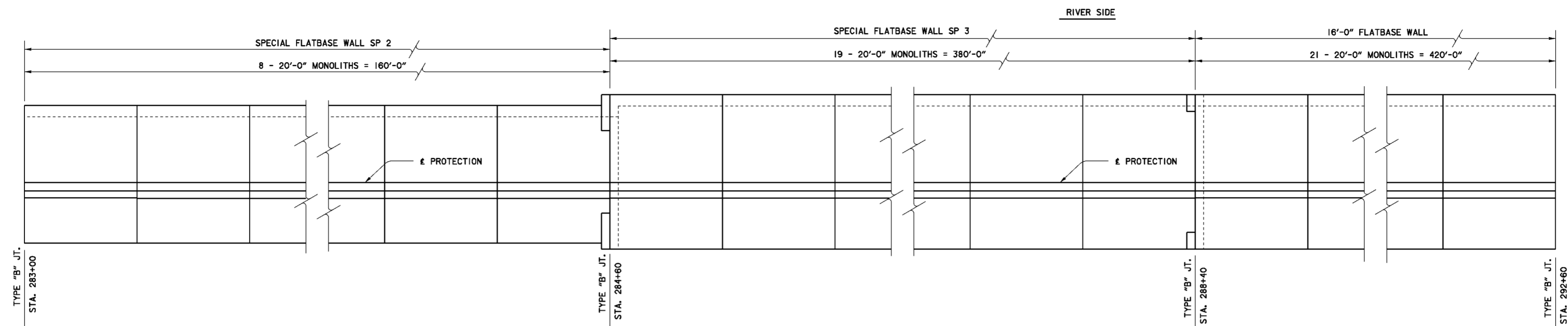
1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. INCREASE OR DECREASE SHEET PILE SETTING WIDTHS AS NECESSARY TO MAINTAIN INTERLOCKS ON CENTERLINE OF MONOLITH JOINTS.
4. FOR TOP OF PROTECTION ELEVATIONS AND BOTTOM OF SHEET PILE ELEVATIONS SEE 16 SERIES DRAWINGS.
5. FOR DEPTHS OF PILE PENETRATION CORRESPONDING TO I-WALL HEIGHTS SEE TABLE ON DWG. 20.1/3
6. STATIONS AT THE INTERSECTION POINTS (P.I.'s) ARE SHOWN ALONG THE & OF PROTECTION.

Revisions			
Symbol	Descriptions	Date	Approved

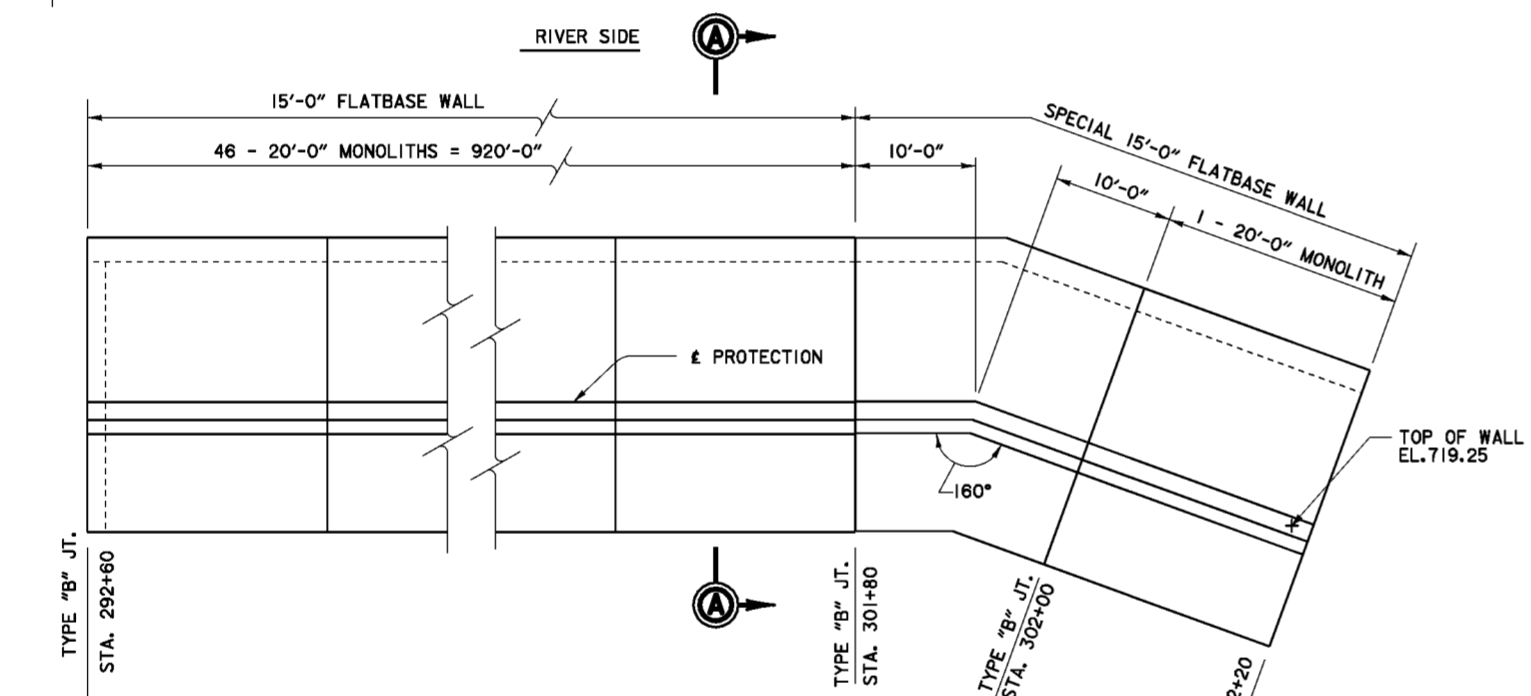
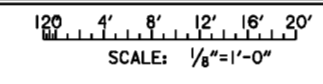
  

U.S. ARMY ENGINEER DISTRICT CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S. B.W.D.	 M.B.S. B.W.D. Professional Engineer No. 10000 State of Ohio	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B <b>FLOODWALL AND CUTOFF WALL PLAN (SHEET 2)</b>	
Drawn by: B.W.D.		Scale: AS SHOWN	Sheet reference number: 20.1/8
Checked by: M.B.S.	Date: MARCH 2000	FILENAME: 20L.B.dgn	PEN TABLE:
Reviewed by:	Drawing Code: O16-PWC-13	Sheet of	
Approved by:			

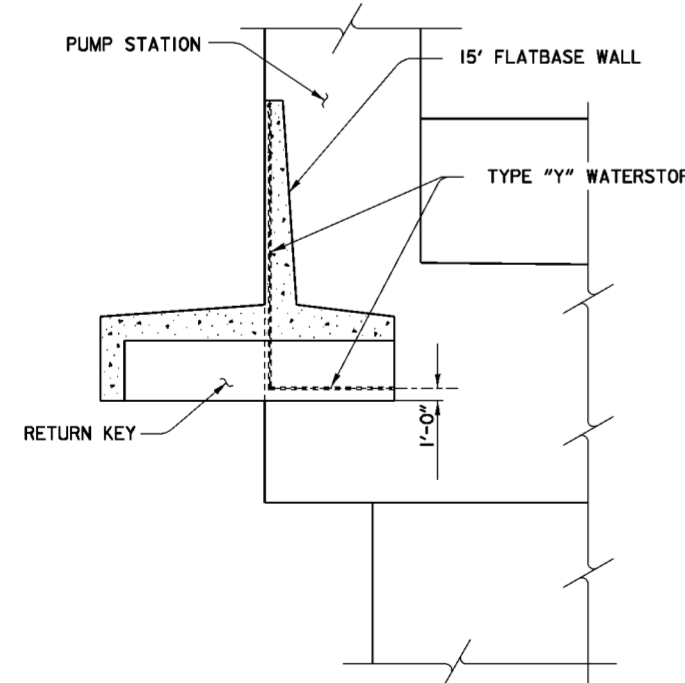
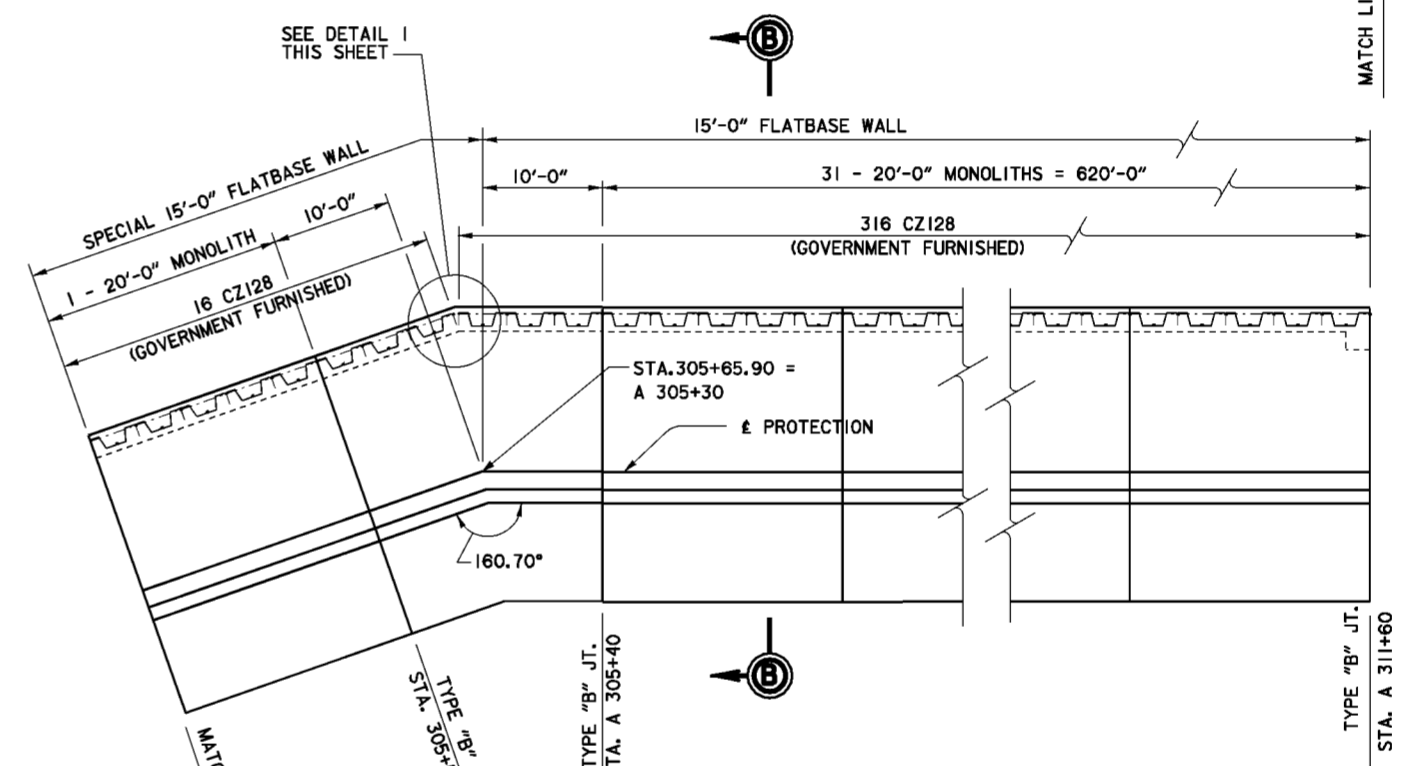
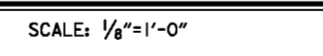
WORK AS CONSTRUCTED



**PLAN - STA. 283+00 TO STA. 292+60**

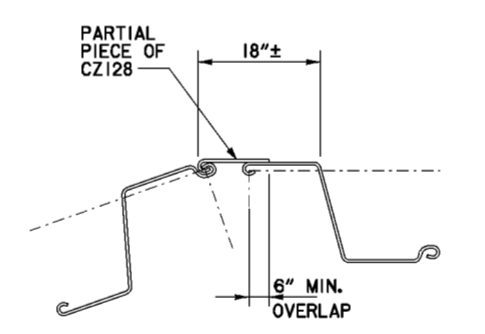


**PLAN - STA. 292+60 TO STA. A 311+60**



**SECTION A-A (AS SHOWN)  
SECTION B-B (OPP. HAND)**

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



NOTE: FABRICATED SECTION TO BE CONSTRUCTED USING BOLTED CONNECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

**DETAIL 1**

SCALE: NONE

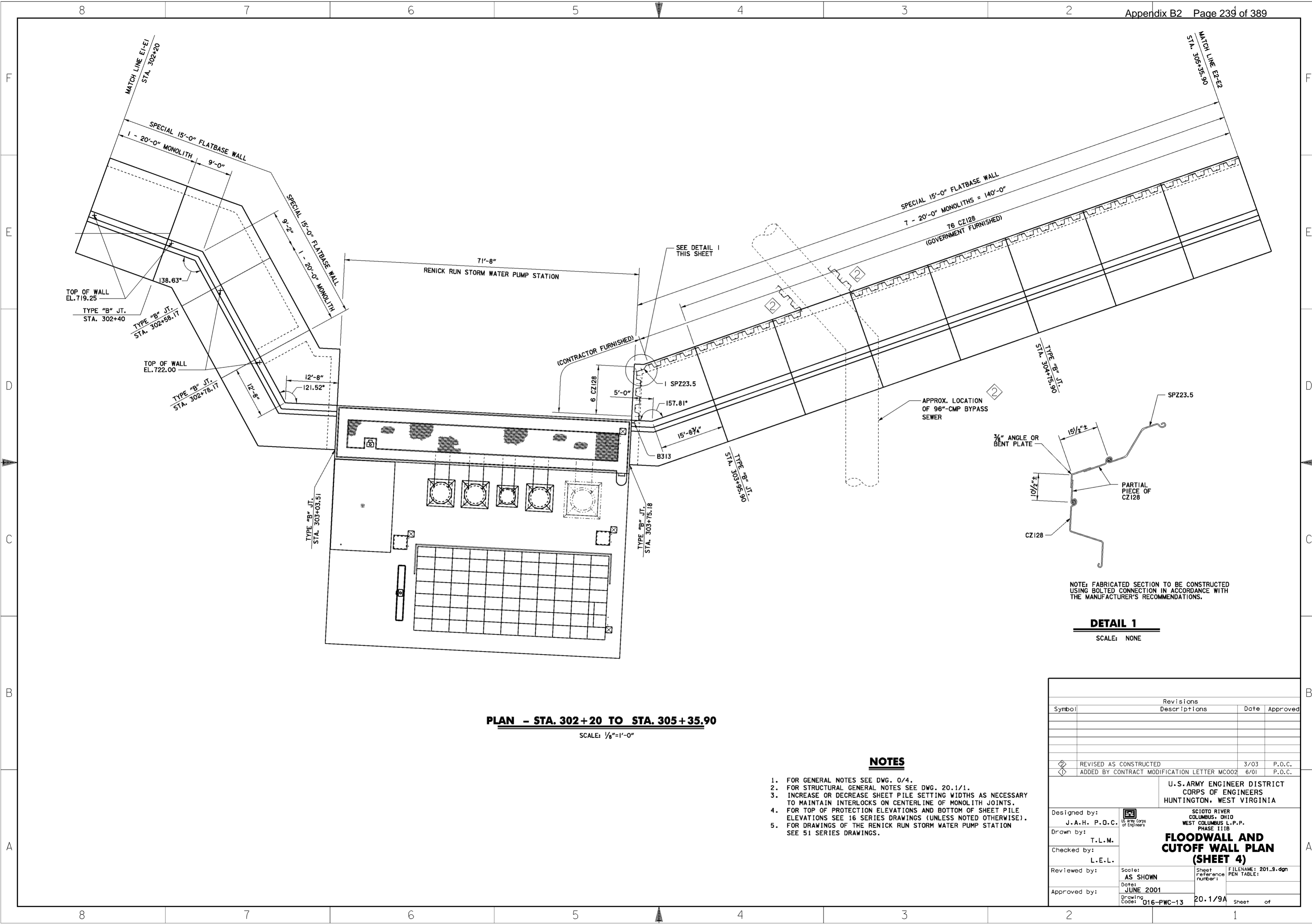
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. INCREASE OR DECREASE SHEET PILE SETTING WIDTHS AS NECESSARY TO MAINTAIN INTERLOCKS ON CENTERLINE OF MONOLITH JOINTS.
4. FOR TOP OF PROTECTION ELEVATIONS AND BOTTOM OF SHEET PILE ELEVATIONS SEE 16 SERIES DRAWINGS.
5. FOR DRAWINGS OF THE RENICK RUN STORM WATER PUMP STATION SEE 51 SERIES DRAWINGS.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REV. BY CONTRACT MODIFICATION LETTER MCO02	6/01	P.O.C.

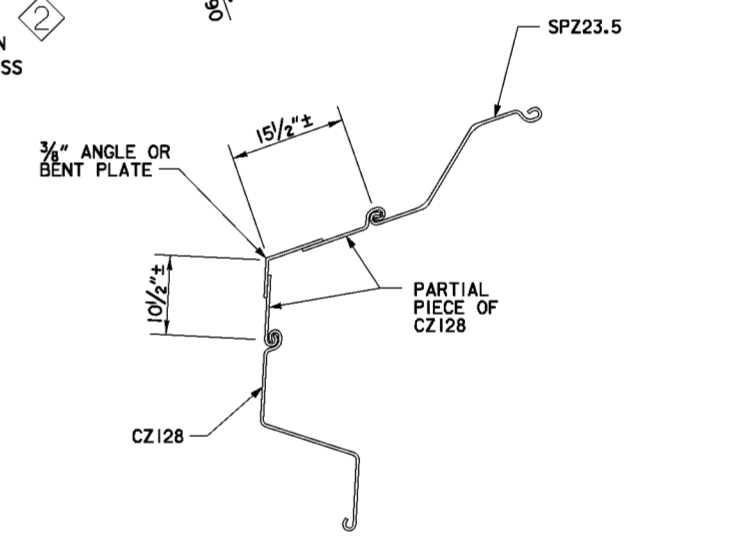
Designed by: <b>M.B.S. B.W.D.</b>		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Drawn by: <b>B.W.D.</b>		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE 111B	
Checked by: <b>M.B.S.</b>		<b>FLOODWALL AND CUTOFF WALL PLAN (SHEET 3)</b>	
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet Reference number:	FILENAME: 201.S.dgn PEN TABLE:
Approved by:	Date: <b>MARCH 2000</b>	Drawing Code: <b>D16-PWC-13</b>	20.1/9 Sheet of



**PLAN - STA. 302+20 TO STA. 305+35.90**  
 SCALE: 1/8"=1'-0"

**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. INCREASE OR DECREASE SHEET PILE SETTING WIDTHS AS NECESSARY TO MAINTAIN INTERLOCKS ON CENTERLINE OF MONOLITH JOINTS.
4. FOR TOP OF PROTECTION ELEVATIONS AND BOTTOM OF SHEET PILE ELEVATIONS SEE 16 SERIES DRAWINGS (UNLESS NOTED OTHERWISE).
5. FOR DRAWINGS OF THE RENICK RUN STORM WATER PUMP STATION SEE 51 SERIES DRAWINGS.



NOTE: FABRICATED SECTION TO BE CONSTRUCTED USING BOLTED CONNECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

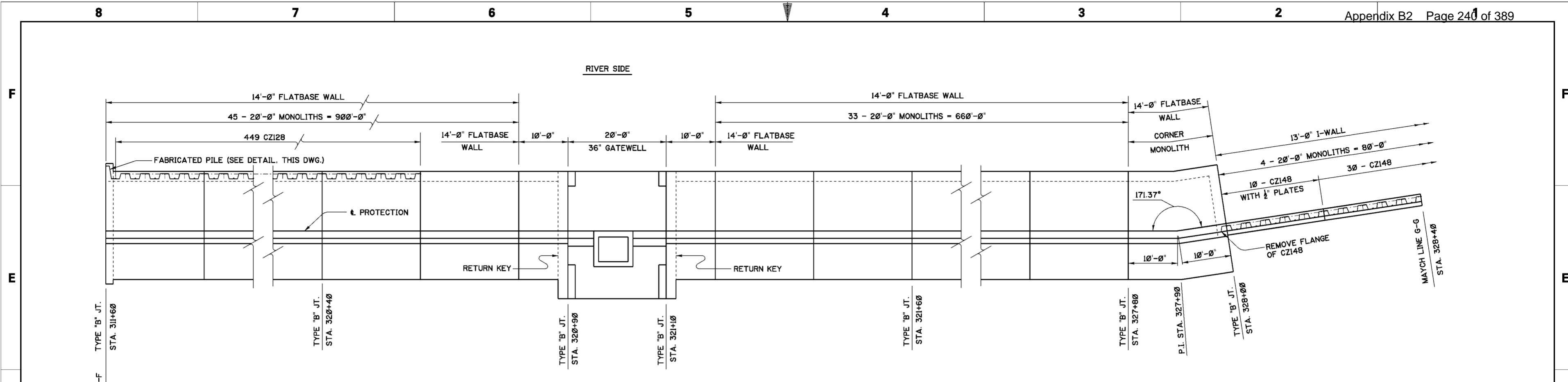
**DETAIL 1**  
 SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/03	P.O.C.
◇	ADDED BY CONTRACT MODIFICATION LETTER MCO02	6/01	P.O.C.

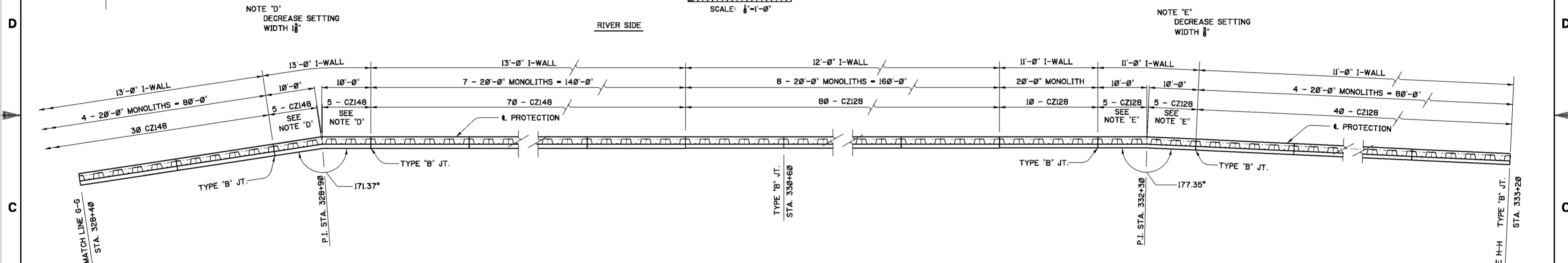
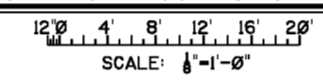
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	J.A.H. P.O.C.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE 111B <b>FLOODWALL AND                  CUTOFF WALL PLAN                  (SHEET 4)</b>	
Drawn by:	T.L.M.		
Checked by:	L.E.L.		
Reviewed by:			
Approved by:		Scale: AS SHOWN	Sheet Reference number:
		Date: JUNE 2001	FILENAME: 201.S.dgn
		Drawing Code: 016-PWC-13	PEN TABLE:
		20.1/9A	Sheet of

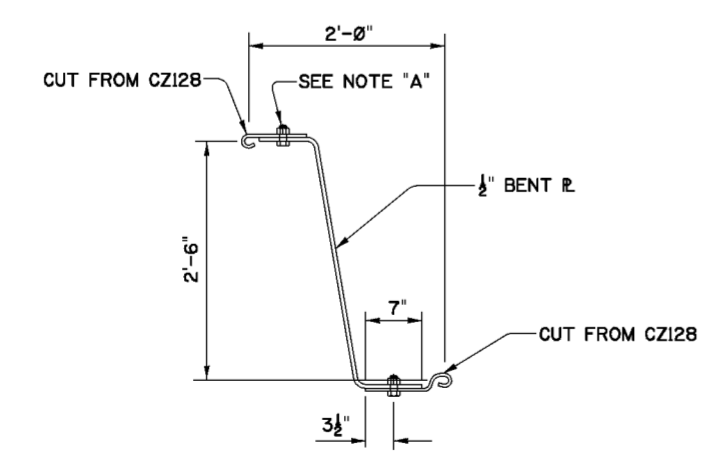
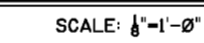
**WORK AS CONSTRUCTED**



**PLAN - STA. 311+60 TO STA. 328+40**



**PLAN - STA. 328+40 TO STA. 333+20**



**FABRICATED PILE**

NOTE "A"  
 7/8" DIA. BOLTS, ASTM A325 @ 6" C. TO C. THROUGHOUT LENGTH AND AT 3" C. TO C. FOR 2'-0" AT EACH END; OR AS RECOMMENDED BY PILING MANUFACTURER.

**NOTES**

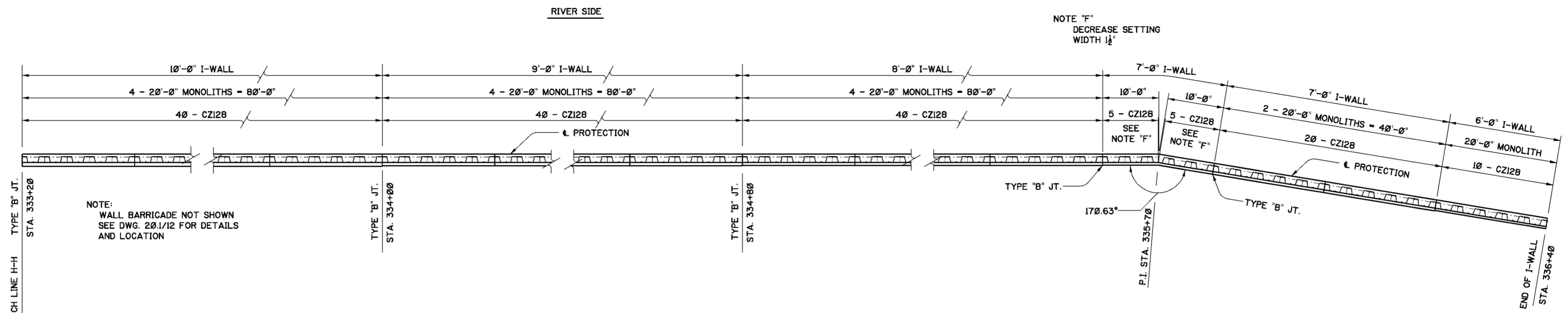
1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. INCREASE OR DECREASE SHEET PILE SETTING WIDTHS AS NECESSARY TO MAINTAIN INTERLOCKS ON CENTERLINE OF MONOLITH JOINTS.
4. FOR TOP OF PROTECTION ELEVATIONS AND BOTTOM OF SHEET PILE ELEVATIONS SEE 16 SERIES DRAWINGS.
5. FOR DETAILS OF THE 36" GATEWELL SEE DWG. 20.3/3.
6. FOR DEPTHS OF PILE PENETRATION CORRESPONDING TO I-WALL HEIGHTS SEE TABLE ON DWG. 20.1/3
7. STATIONS AT THE INTERSECTION POINTS (P.I.'s) ARE SHOWN ALONG THE & OF PROTECTION.

Revisions			
Symbol	Descriptions	Date	Approved

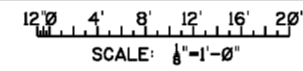
U.S. ARMY ENGINEER DISTRICT COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III	
Designed by: M.B.S. B.W.D.	Drawn by: B.W.D.	Checked by: M.B.S.	Reviewed by: AS SHOWN
Approved by:	Date: MARCH 2000	Drawing Code: O16-PWC-13	Sheet reference number: 20.1/10
FILENAME: 20L10.dgn		PEN TABLE:	
Sheet		of	





NOTE:  
WALL BARRICADE NOT SHOWN  
SEE DWG. 20.1/12 FOR DETAILS  
AND LOCATION

**PLAN - STA. 333+20 TO STA. 336+40**



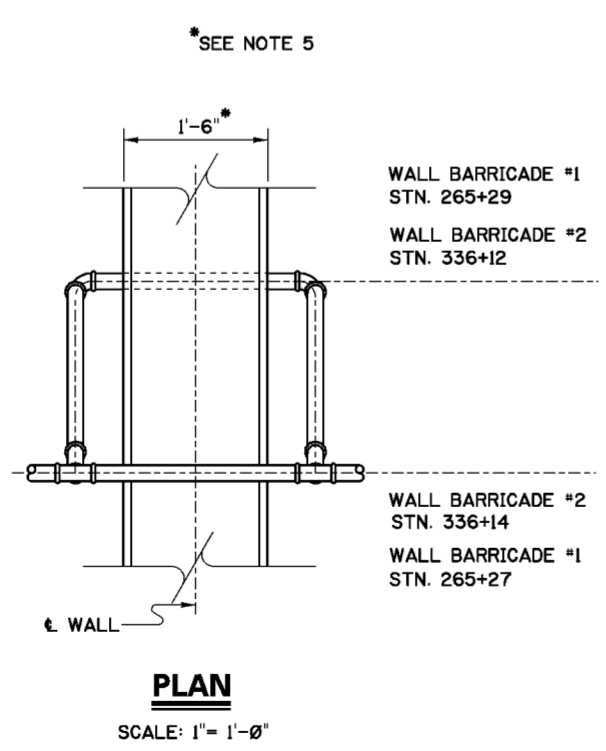
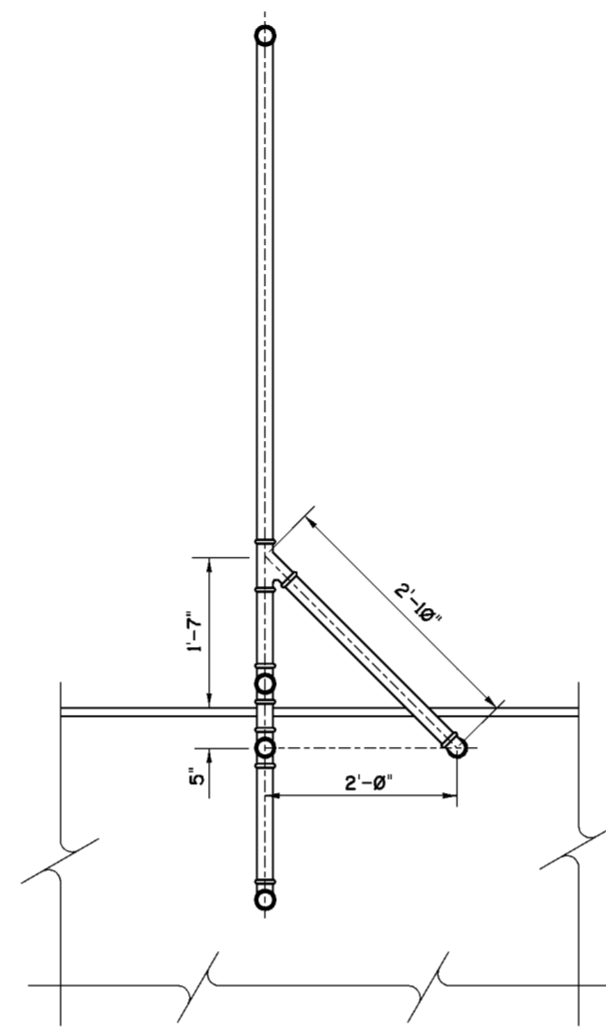
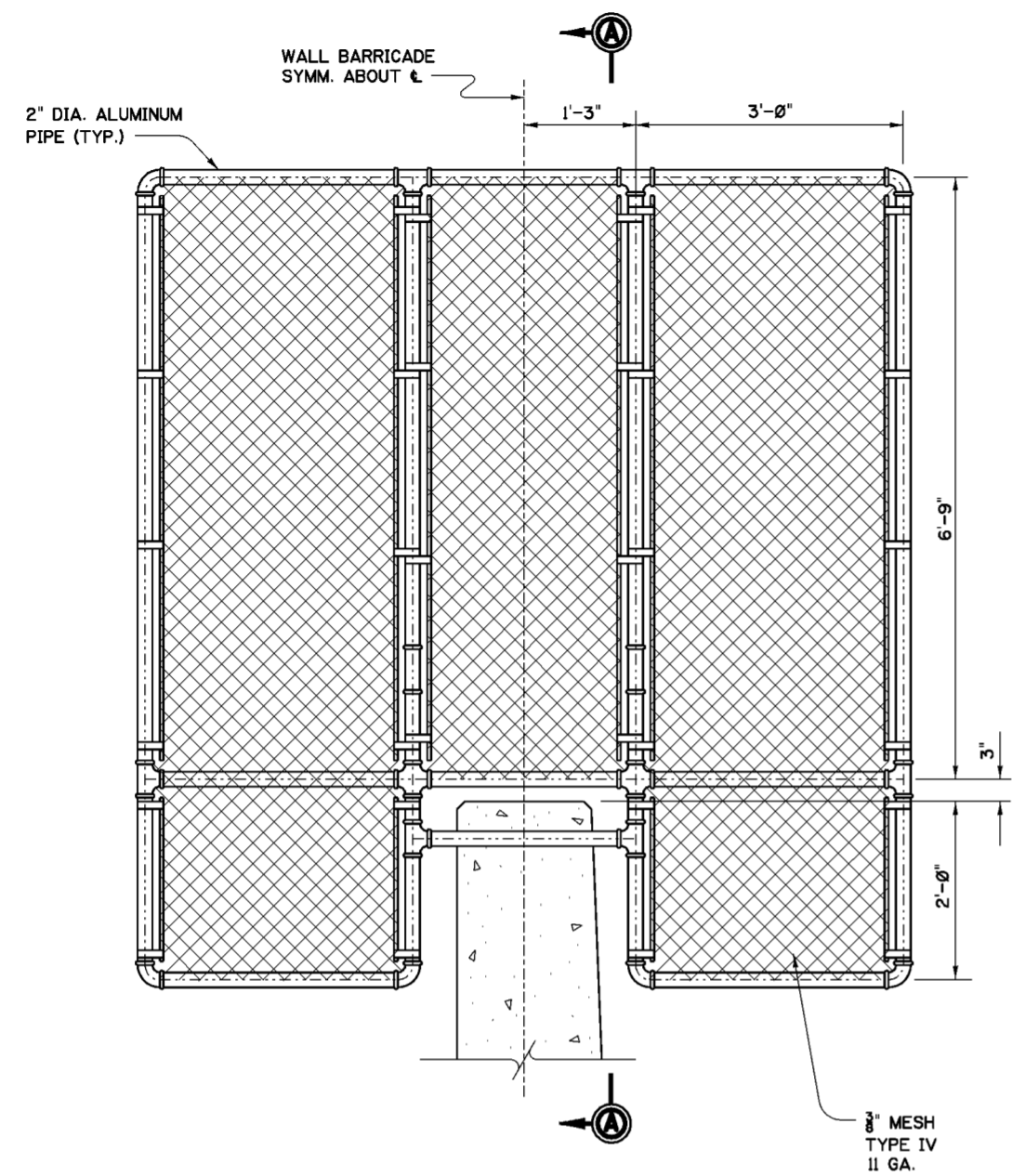
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. INCREASE OR DECREASE SHEET PILE SETTING WIDTHS AS NECESSARY TO MAINTAIN INTERLOCKS ON CENTERLINE OF MONOLITH JOINTS.
4. FOR TOP OF PROTECTION ELEVATIONS AND BOTTOM OF SHEET PILE ELEVATIONS SEE 16 SERIES DRAWINGS.
5. FOR DEPTHS OF PILE PENETRATION CORRESPONDING TO I-WALL HEIGHTS SEE TABLE ON DWG. 20.1/3
6. STATIONS AT THE INTERSECTION POINTS (P.I.'s) ARE SHOWN ALONG THE CL OF PROTECTION.

Revisions			
Symbol	Descriptions	Date	Approved


U.S. ARMY ENGINEER DISTRICT CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S. B.W.D.		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	
Drawn by: B.W.D.		<b>FLOODWALL AND                  CUTOFF WALL PLAN                  (SHEET 5)</b>	
Checked by: M.B.S.	Reviewed by: AS SHOWN	Date: MARCH 2000	FILENAME: 20L11.dgn
Approved by:	Scale: AS SHOWN	Drawing Code: O16-PWC-13	Sheet reference number: 20.1/11
PEN TABLE:			Sheet of

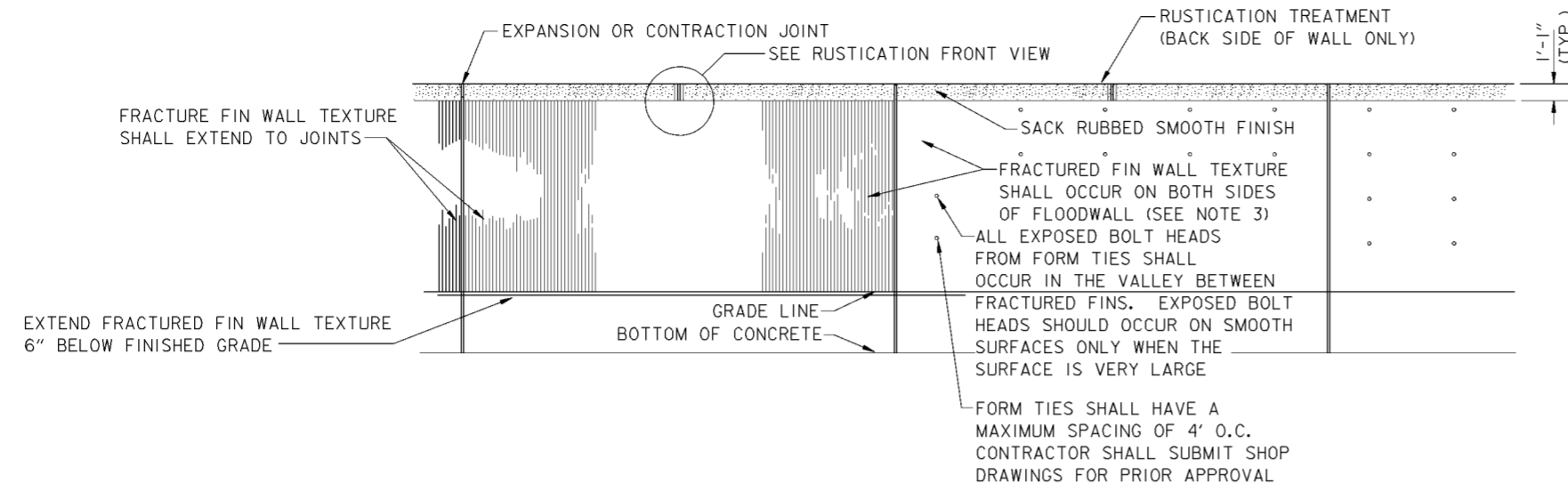


- NOTES**
1. FOR GENERAL NOTES SEE DWG. 0/4.
  2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
  3. ALL MATERIAL ON THIS DRAWING SHALL BE ALUMINUM ALLOY 6061-T6 UNLESS OTHERWISE NOTED.
  4. ALL ALUMINUM SURFACES WHICH COME IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH A HEAVY COAT OF BITUMINOUS PAINT.
  5. WALL STEM MASONRY DIMENSIONS EXCLUDE CAP DETAILS AND FRACTURED FIN SURFACE TREATMENT, SEE DWG. 20.1/13.

Revisions			
Symbol	Descriptions	Date	Approved

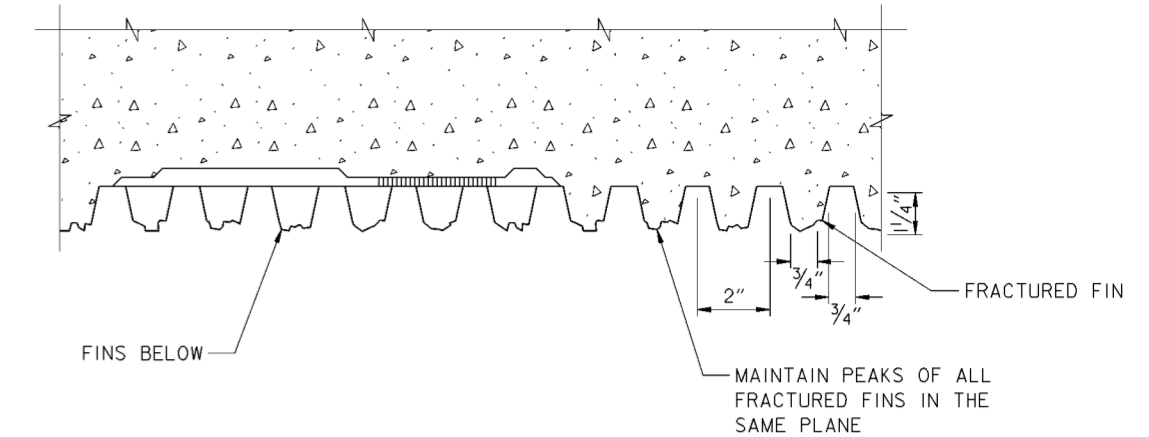
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: B.W.D.	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>WALL BARRICADES</b>	Scale: AS SHOWN	Sheet reference number: 20.1/12
Drawn by: B.W.D.		Date: MARCH 2000	FILENAME: PEN TABLE: 20L12.dgn
Checked by: M.B.S.		Drawing Code: O16-PWC-13	Sheet of
Reviewed by:		Approved by:	

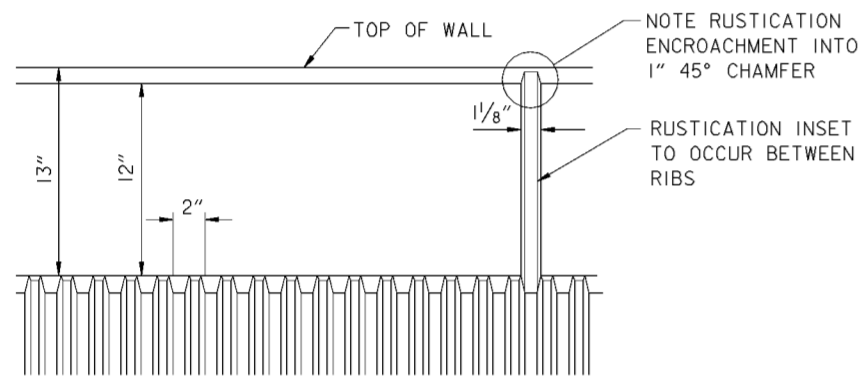


**TYPICAL WALL TEXTURE AND GRAPHICS**

SCALE: NONE

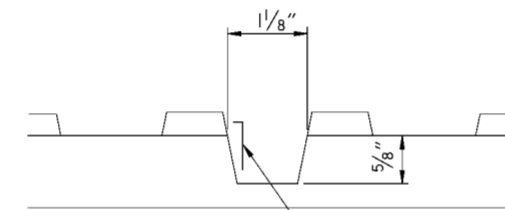


**TYPICAL FRACTURED FIN WALL TEXTURE**



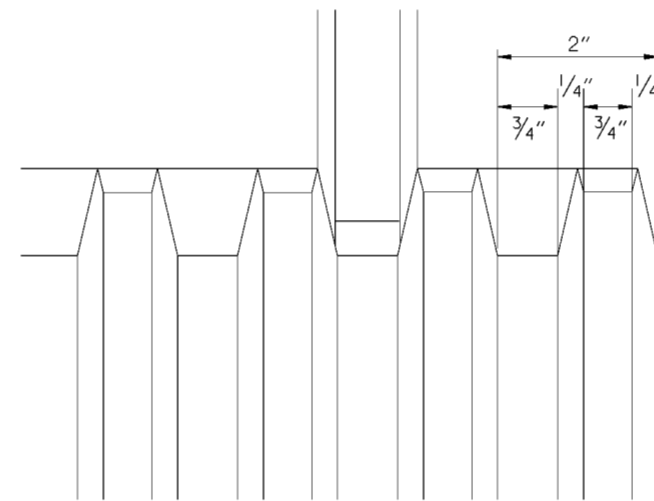
**RUSTICATION TREATMENT-FRONT VIEW**

SCALE: NONE



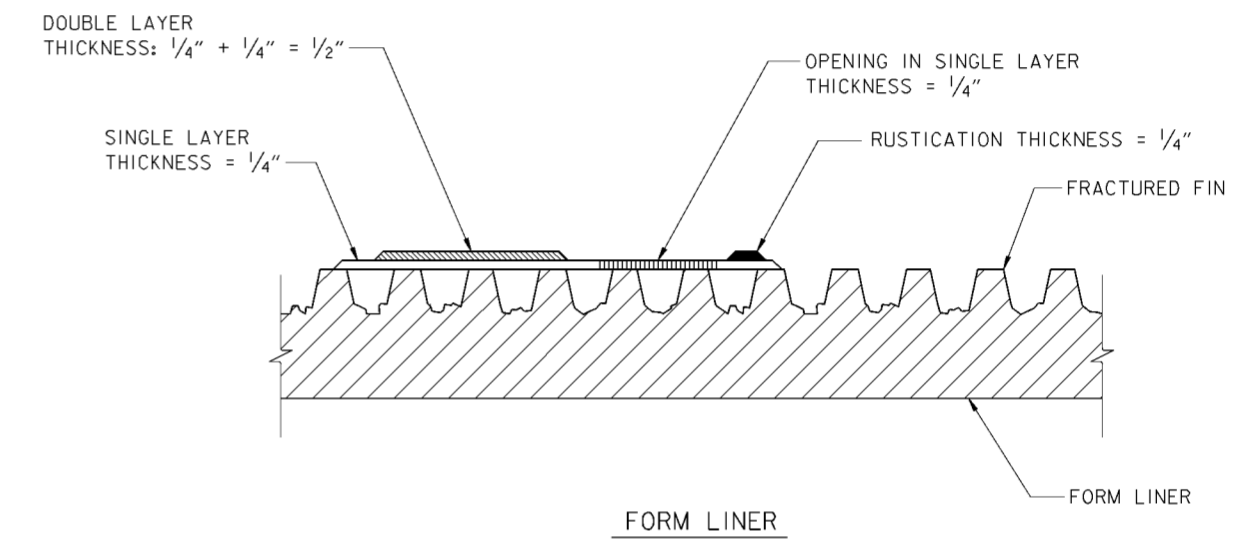
**RUSTICATION TREATMENT-TOP VIEW**

SCALE: NONE



**FIN/CAP JUNCTION DETAIL**

SCALE: NONE



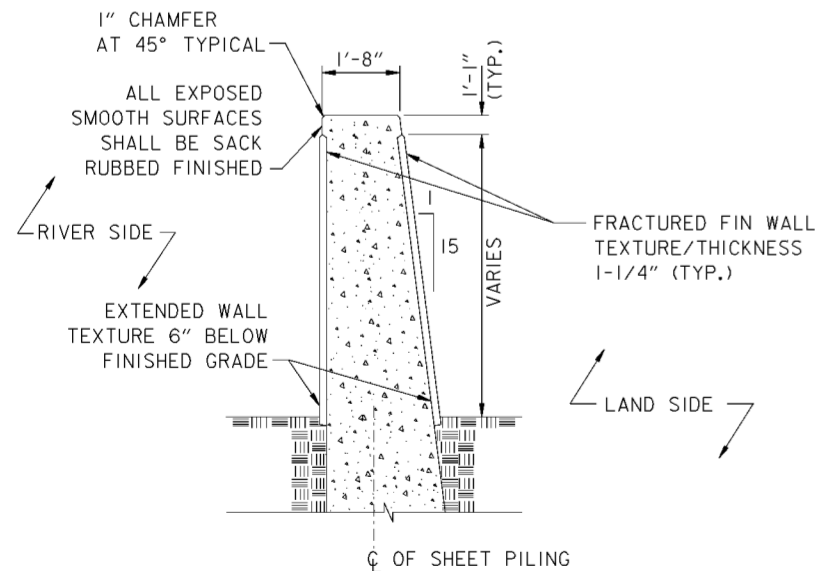
**TYPICAL FRACTURED FIN WALL TEXTURE/FORM LINER**

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

12" 0 2' 4' 6"

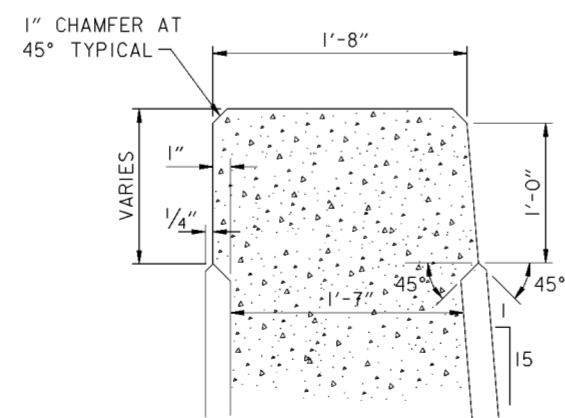
**NOTES**

1. WALL TEXTURE SHALL NOT ENCRROACH ON CONCRETE COVER OF REINFORCEMENT.
2. RUSTICATION TREATMENTS SHOULD OCCUR AT THE CENTER POINTS OF EVERY WALL MONOLITH. WHERE CORNERS ARE MORE THAN 16'-1/2' FROM A TYPE "A" JOINT, THEN A RUSTICATION TREATMENT SHOULD OCCUR. IF A CORNER IS LESS THAN 16'-1/2' FROM A TYPE "A" JOINT, THEN A RUSTICATION IS NOT NEEDED.
2. WALL GRAPHICS AS SHOWN ON DRAWING NOS. 12/16 THRU 12/48 SHALL OCCUR ON THE RIVER SIDE OF WALL.



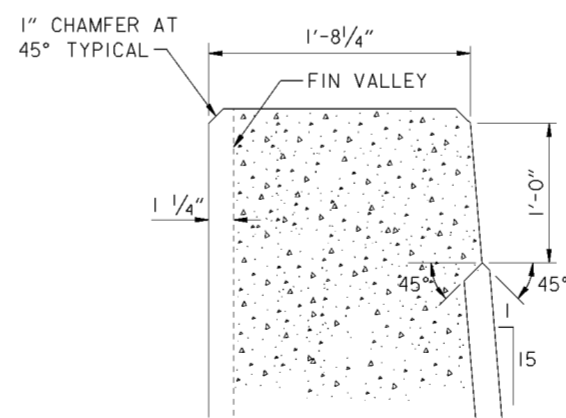
**TYPICAL FLOODWALL SECTION**

SCALE: NONE



**TYPICAL CAP DETAIL**

SCALE: NONE



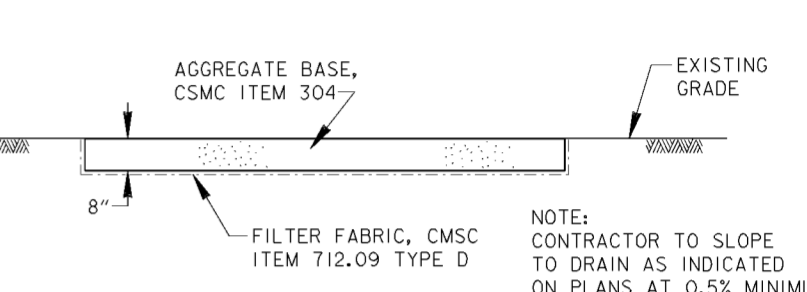
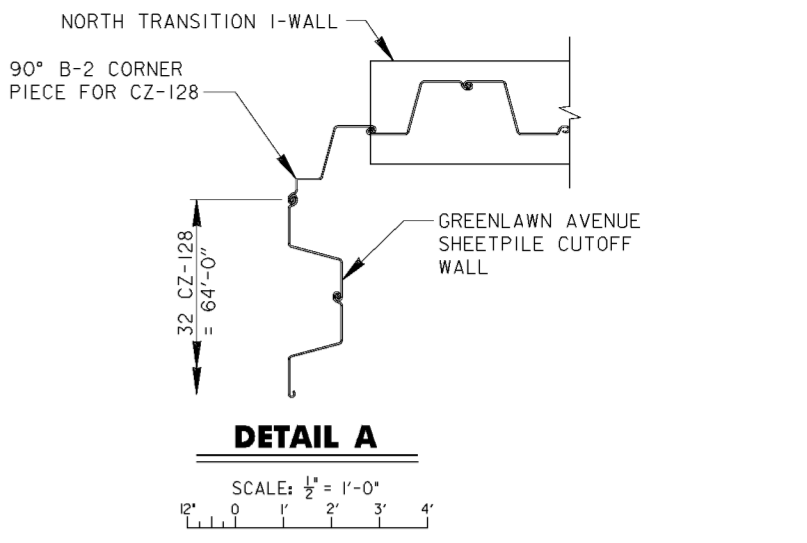
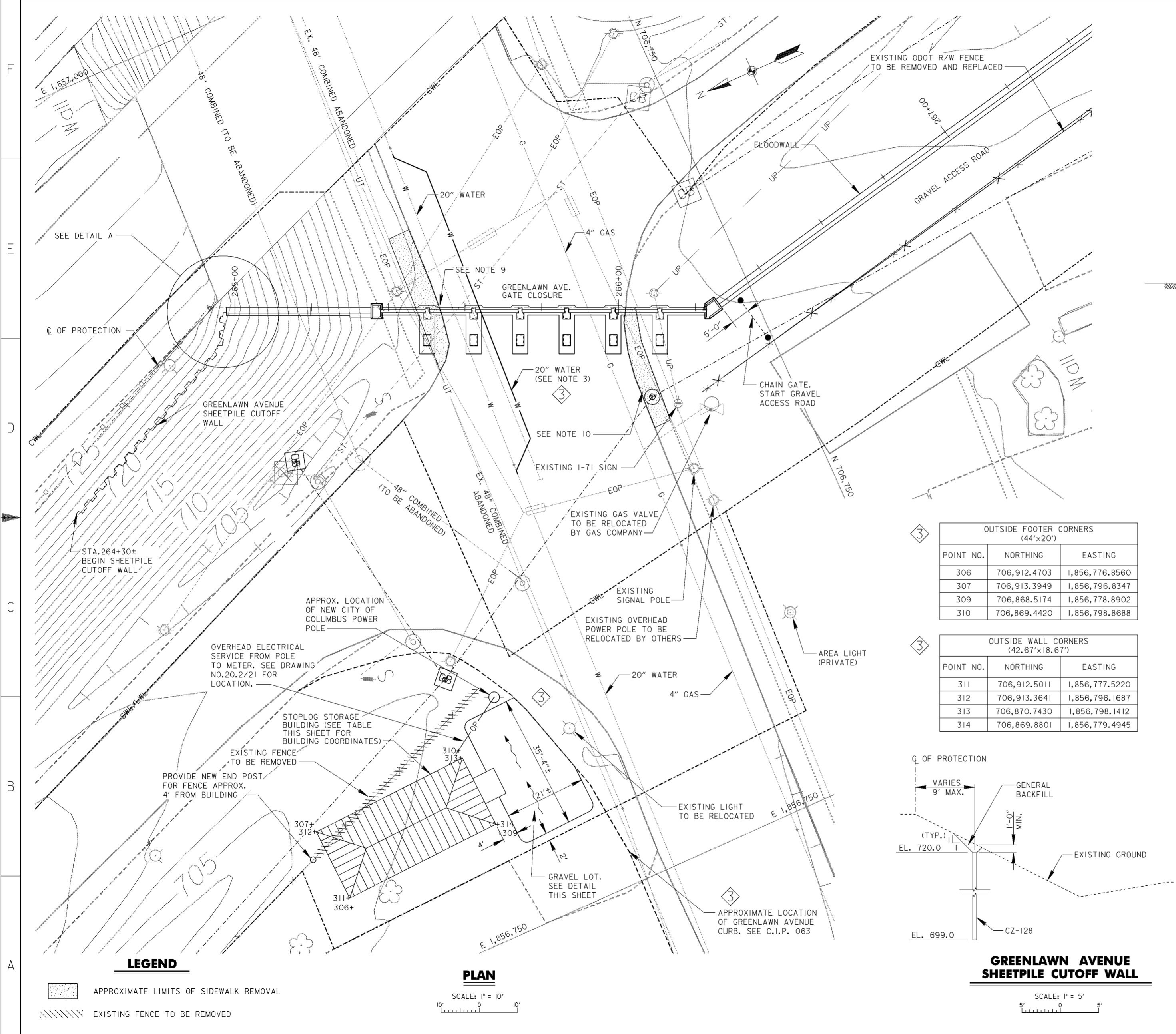
**TYPICAL CAP DETAIL W/ FRACTURED FIN TO TOP OF WALL**

SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>COE</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
		Drawn by: <b>A.PUMMELL</b>	
Checked by: <b>P.CONROY</b>	Reviewed by: <b>AS SHOWN</b>	Sheet reference number: <b>20.1/13</b>	FILENAME: 00wid01.dgn PIN TABLE:
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>1</b> of <b>1</b>



**GENERAL NOTES**

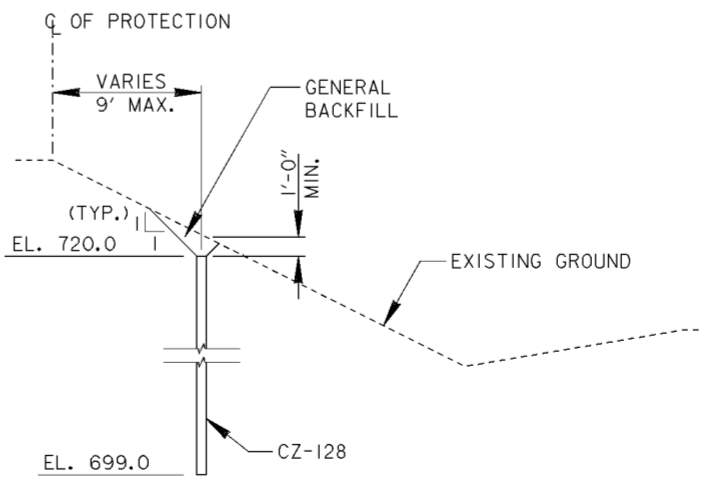
- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS.6/1 THRU 6/4.
- FOR NORTHERN DRAINAGE SEE DRAWING NOS.15.1/1 THRU 15/1.8.
- FOR 20\"/>

3

OUTSIDE FOOTER CORNERS (44'x20')		
POINT NO.	NORTHING	EASTING
306	706,912.4703	1,856,776.8560
307	706,913.3949	1,856,796.8347
309	706,868.5174	1,856,778.8902
310	706,869.4420	1,856,798.8688

3

OUTSIDE WALL CORNERS (42.67'x18.67')		
POINT NO.	NORTHING	EASTING
311	706,912.5011	1,856,777.5220
312	706,913.3641	1,856,796.1687
313	706,870.7430	1,856,798.1412
314	706,869.8801	1,856,779.4945



**GREENLAWN AVENUE SHEETPILE CUTOFF WALL**

SCALE: 1" = 5'

**LEGEND**

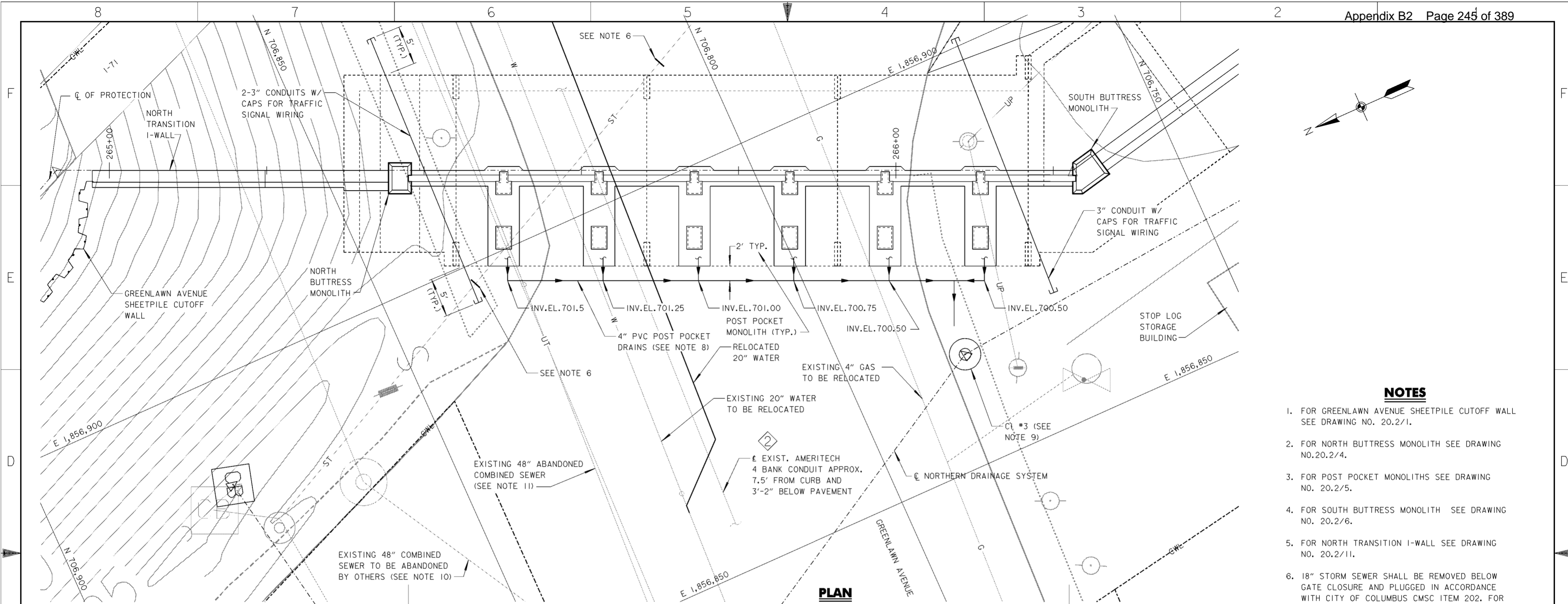
- APPROXIMATE LIMITS OF SIDEWALK REMOVAL
- EXISTING FENCE TO BE REMOVED

**PLAN**

SCALE: 1" = 10'

Symbol	Revisions Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.
◊	REV. IN ACCORDANCE WITH MOD. NO. P00008	9/18/01	P.O.C.
◊	REV. IN ACCORDANCE WITH AMENDMENT NO. 0008	2/02/01	P.O.C.

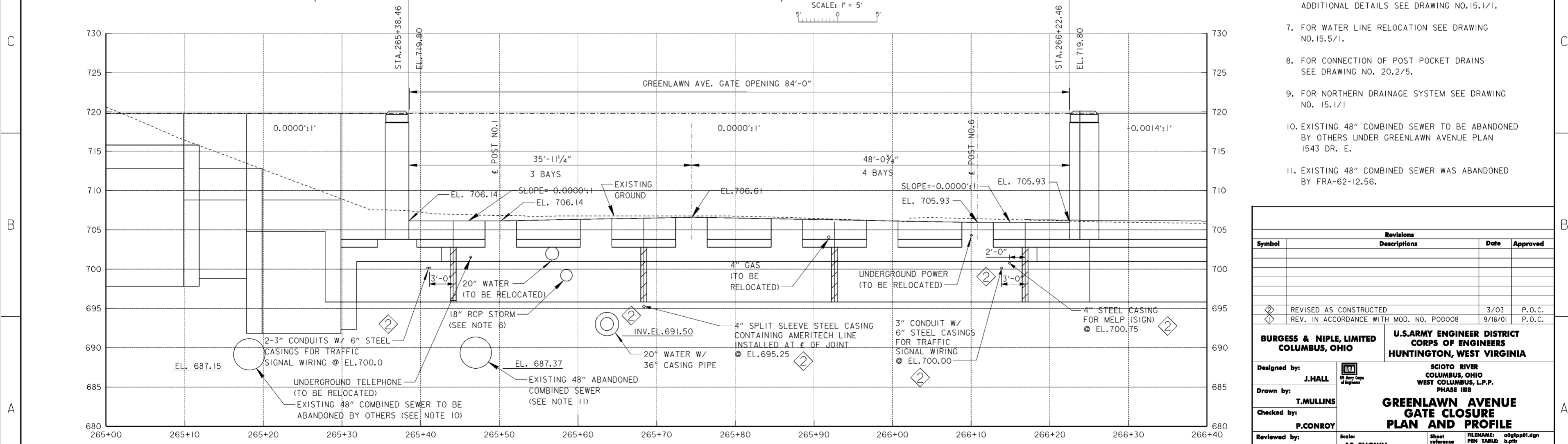
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J. HALL</b>		<b>SCIO TO RIVER</b> COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T. MULLINS</b>			
Checked by: <b>P. CONROY</b>		<b>GREENLAWN AVENUE</b> GATE CLOSURE SITE PLAN	
Reviewed by:			
Approved by:		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>20.21</b>
		Date: <b>OCTOBER 2000</b>	FILENAME: a0g1p101.dgn
		Drawing Code: <b>016-PWC-13</b>	PIN TABLE: s.pfb L.pfb
			Sheet <b>1</b> of <b>1</b>



**PLAN**  
SCALE: 1" = 5'

**NOTES**

1. FOR GREENLAWN AVENUE SHEETPILE CUTOFF WALL SEE DRAWING NO. 20.2/1.
2. FOR NORTH BUTTRESS MONOLITH SEE DRAWING NO.20.2/4.
3. FOR POST POCKET MONOLITHS SEE DRAWING NO. 20.2/5.
4. FOR SOUTH BUTTRESS MONOLITH SEE DRAWING NO. 20.2/6.
5. FOR NORTH TRANSITION I-WALL SEE DRAWING NO. 20.2/11.
6. 18" STORM SEWER SHALL BE REMOVED BELOW GATE CLOSURE AND PLUGGED IN ACCORDANCE WITH CITY OF COLUMBUS CMSC ITEM 202. FOR ADDITIONAL DETAILS SEE DRAWING NO.15.1/1.
7. FOR WATER LINE RELOCATION SEE DRAWING NO.15.5/1.
8. FOR CONNECTION OF POST POCKET DRAINS SEE DRAWING NO. 20.2/5.
9. FOR NORTHERN DRAINAGE SYSTEM SEE DRAWING NO. 15.1/1
10. EXISTING 48" COMBINED SEWER TO BE ABANDONED BY OTHERS UNDER GREENLAWN AVENUE PLAN 1543 DR. E.
11. EXISTING 48" COMBINED SEWER WAS ABANDONED BY FRA-62-12.56.

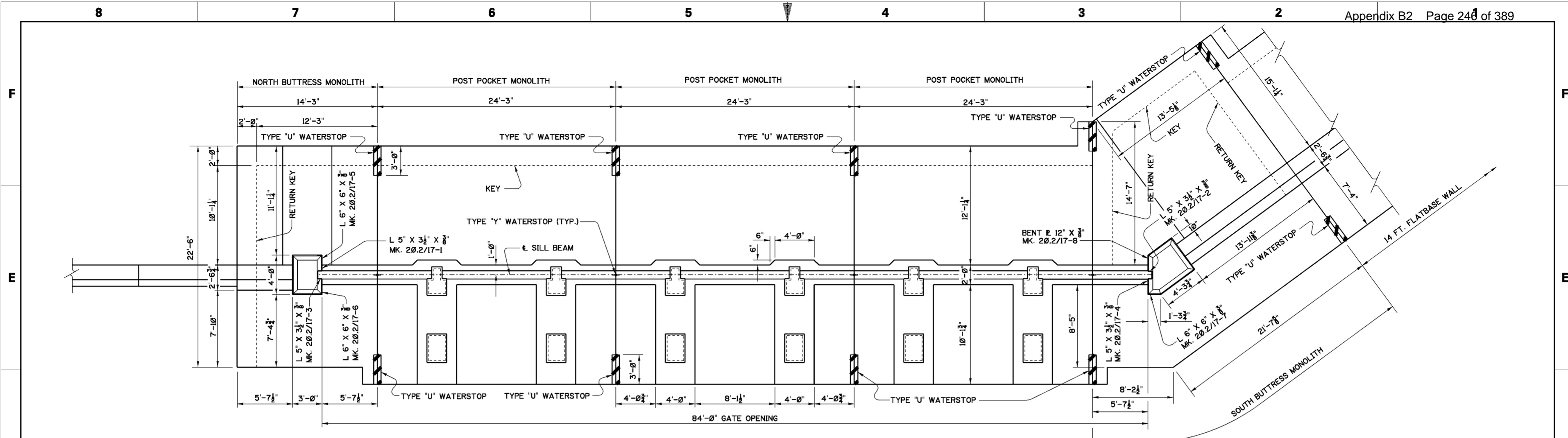


**PROFILE**  
SCALE IN FEET

Revisions			
Symbol	Descriptions	Date	Approved
⊠	REVISED AS CONSTRUCTED	3/03	P.O.C.
⊠	REV. IN ACCORDANCE WITH MOD. NO. P00008	9/18/01	P.O.C.

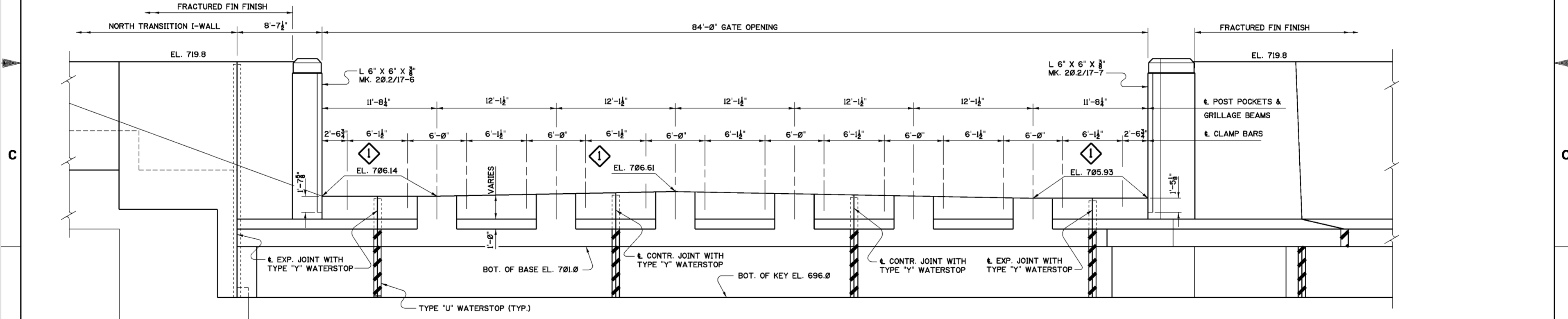
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO Designed by: <b>J.HALL</b> Drawn by: <b>T.MULLINS</b> Checked by: <b>P.CONROY</b> Reviewed by:	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>GREENLAWN AVENUE</b> <b>GATE CLOSURE</b> <b>PLAN AND PROFILE</b>	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>20.22</b> FILENAME: PEN TABLE: a0g1pp01.dgn b.pfb c.tbl



NOTE:  
WALL BARRICADE NOT SHOWN.  
FOR LOCATION SEE DWG. 20.1/12

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



**LANDSIDE ELEVATION**  
SCALE: 1/4"=1'-0"

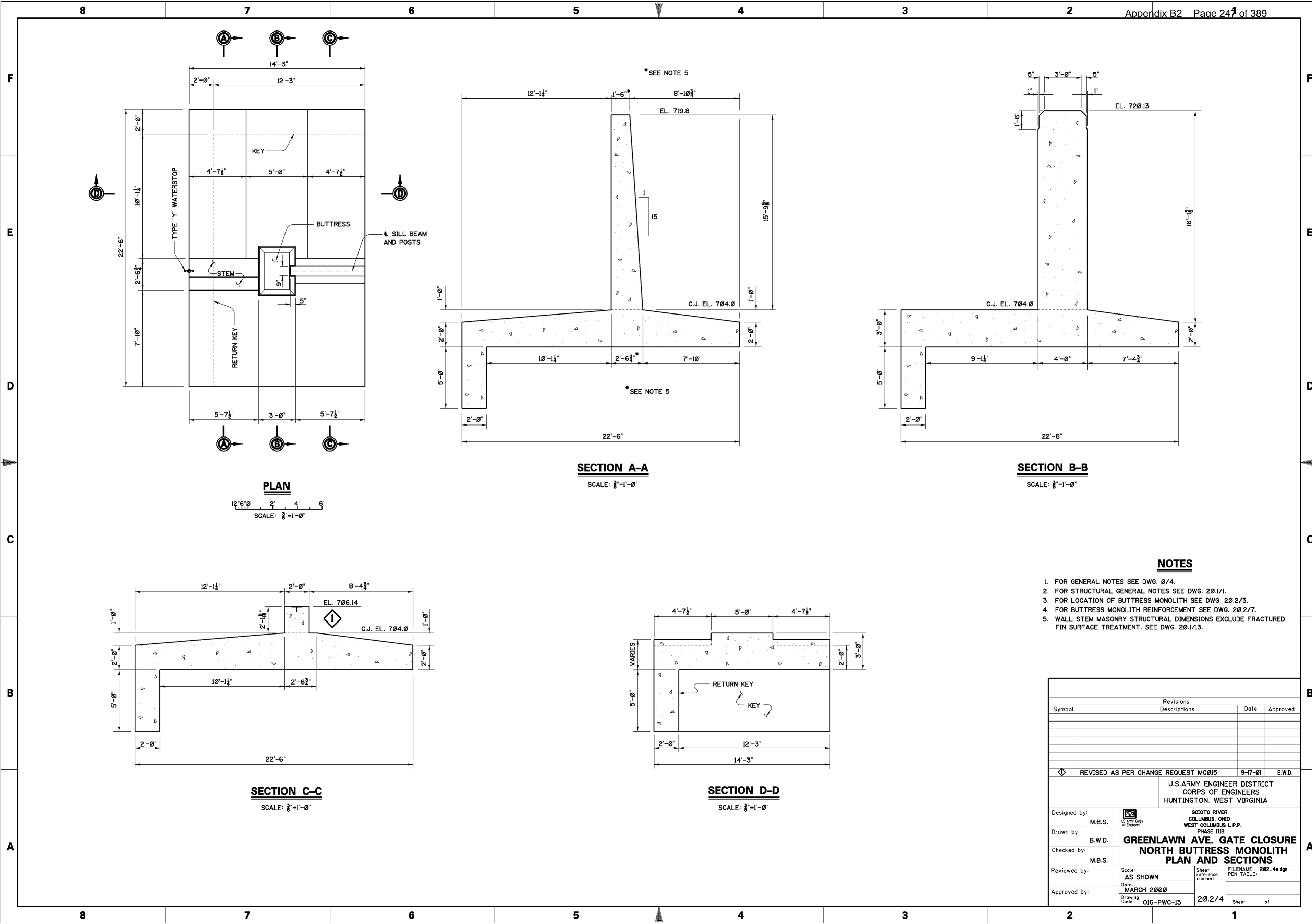
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR NORTH BUTTRESS MONOLITH DETAILS AND REINFORCEMENT SEE DWGS. 20.2/4 AND 20.2/7.
4. FOR POST POCKET MONOLITHS DETAILS AND REINFORCEMENT SEE DWGS. 20.2/5 AND 20.2/8.
5. FOR SOUTH BUTTRESS MONOLITH DETAILS AND REINFORCEMENT SEE DWGS. 20.2/6, 20.2/9, AND 20.2/10.
6. FOR TYP. WATERSTOP DETAILS AND SHEET PILING CONNECTION SEE DWGS. 20.1/3 AND 20.1/4.
7. FOR SILL BEAM DETAILS SEE DWGS. 20.2/12 AND 20.2/13.
8. FOR NORTH TRANSITION I-WALL SEE DWG. 20.2/11.
9. WALL STEM MASONRY STRUCTURAL DIMENSIONS EXCLUDE FRACTURED FIN SURFACE TREATMENT, SEE DWG 20.1/13.
10. FOR METHOD OF PASSING UTILITY PIPES THROUGH GATE SILL SEE DWG. 15.5/3.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS PER CHANGE REQUEST MC015	9-17-01	B.W.D.

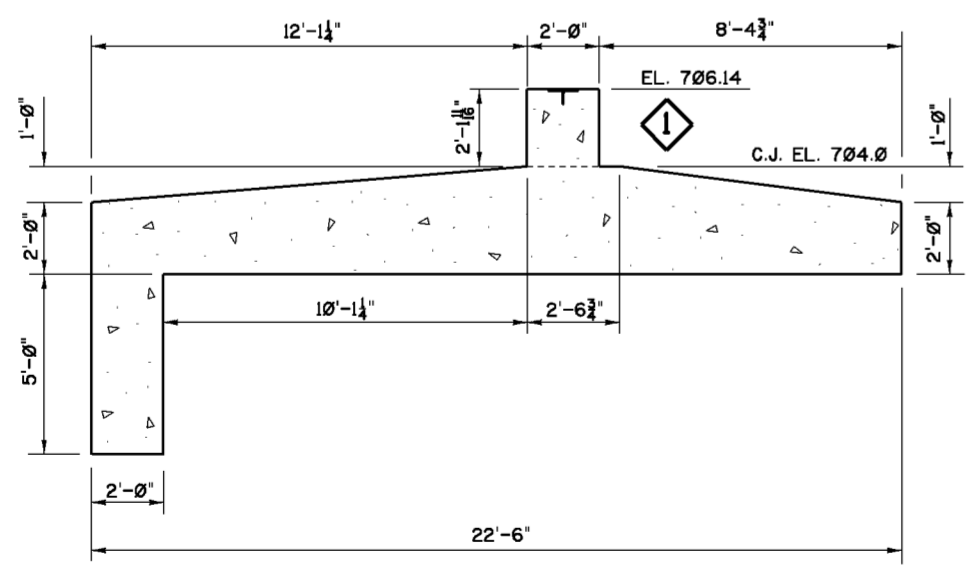
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>GREENLAWN AVE. GATE CLOSURE</b> <b>PLAN AND ELEVATION</b>	
Drawn by:	M.B.S. B.W.D.		
Checked by:	M.B.S.		
Reviewed by:			
Approved by:			
Scale:	AS SHOWN	Sheet reference number:	20.2/3
Date:	MARCH 2000	FILENAME:	202_3a.dgn
Drawing Code:	O16-PWC-13	PEN TABLE:	



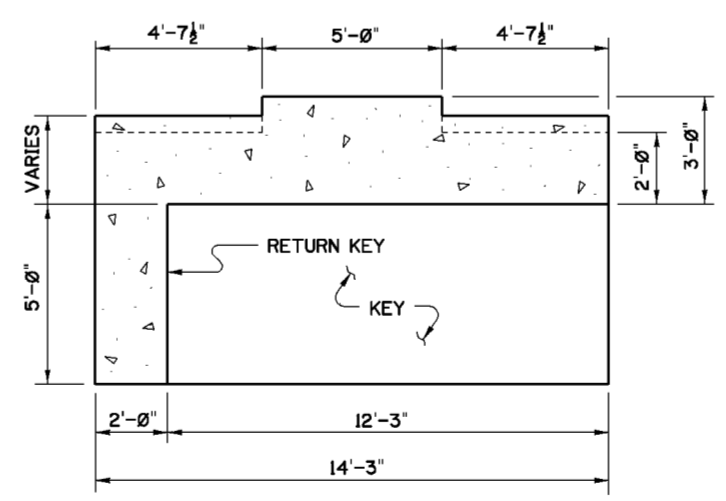
**PLAN**  
SCALE: 3/8"=1'-0"

**SECTION A-A**  
SCALE: 3/8"=1'-0"

**SECTION B-B**  
SCALE: 3/8"=1'-0"



**SECTION C-C**  
SCALE: 3/8"=1'-0"



**SECTION D-D**  
SCALE: 3/8"=1'-0"

**NOTES**

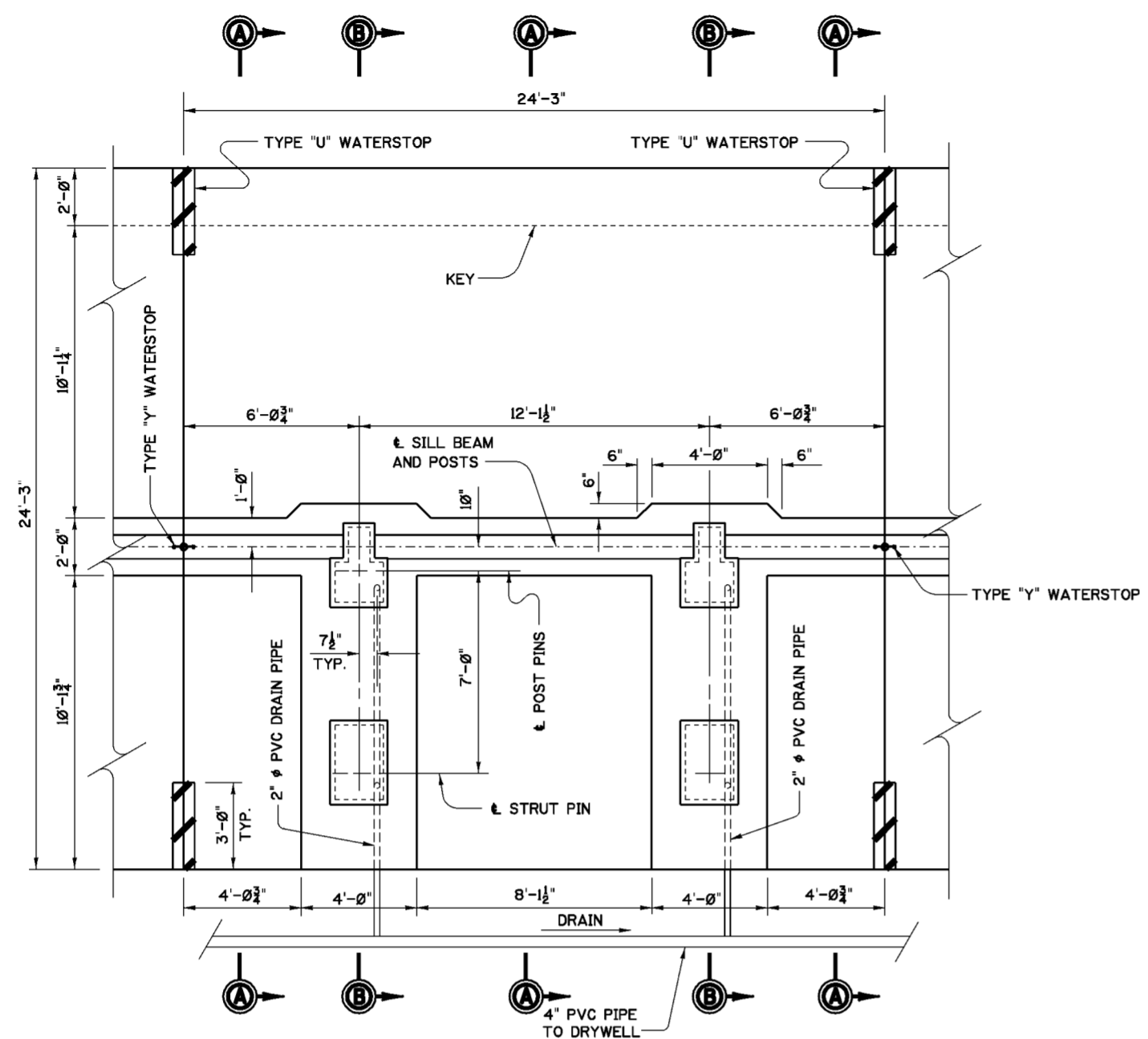
1. FOR GENERAL NOTES SEE DWG. 20/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20/1/1.
3. FOR LOCATION OF BUTTRESS MONOLITH SEE DWG. 20/2/3.
4. FOR BUTTRESS MONOLITH REINFORCEMENT SEE DWG. 20/2/7.
5. WALL STEM MASONRY STRUCTURAL DIMENSIONS EXCLUDE FRACTURED FIN SURFACE TREATMENT, SEE DWG. 20/1/13.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS PER CHANGE REQUEST MC015	9-17-01	B.W.D.

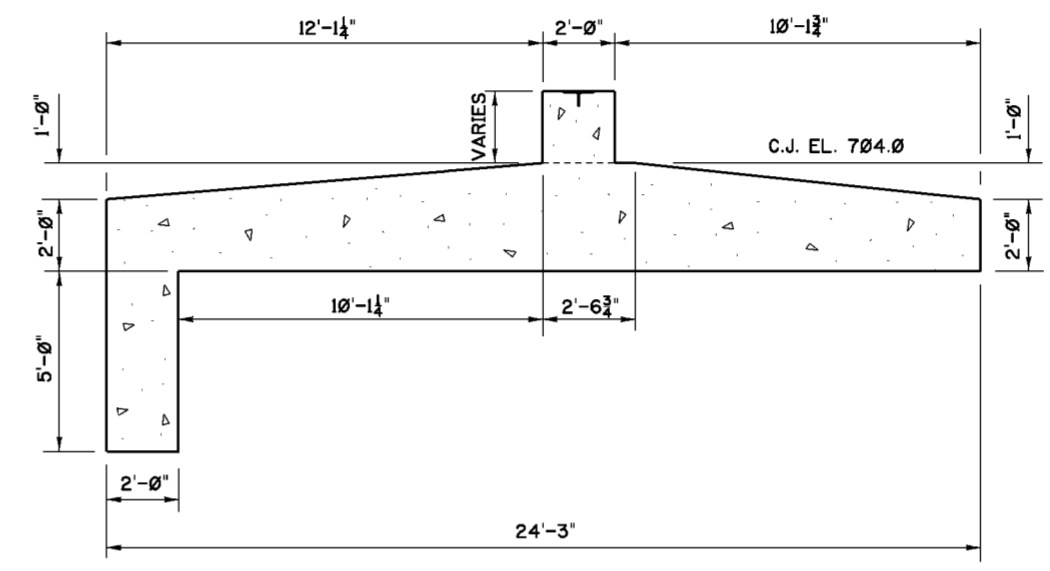
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>GREENLAWN AVE. GATE CLOSURE NORTH BUTTRESS MONOLITH PLAN AND SECTIONS</b>	FILENAME: 202_4a.dgn PEN TABLE:
Drawn by:	B.W.D.		
Checked by:	M.B.S.		
Reviewed by:	AS SHOWN		
Approved by:	MARCH 2000		
Scale: AS SHOWN		Sheet reference number: 202/4	Sheet of
Drawing Code: O16-PWC-13			

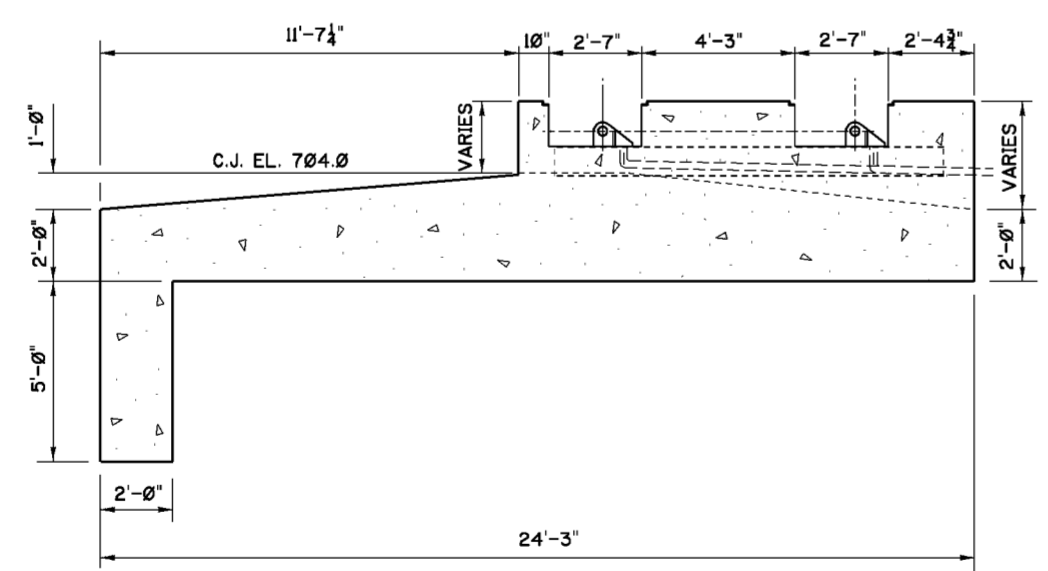
WORK AS CONSTRUCTED



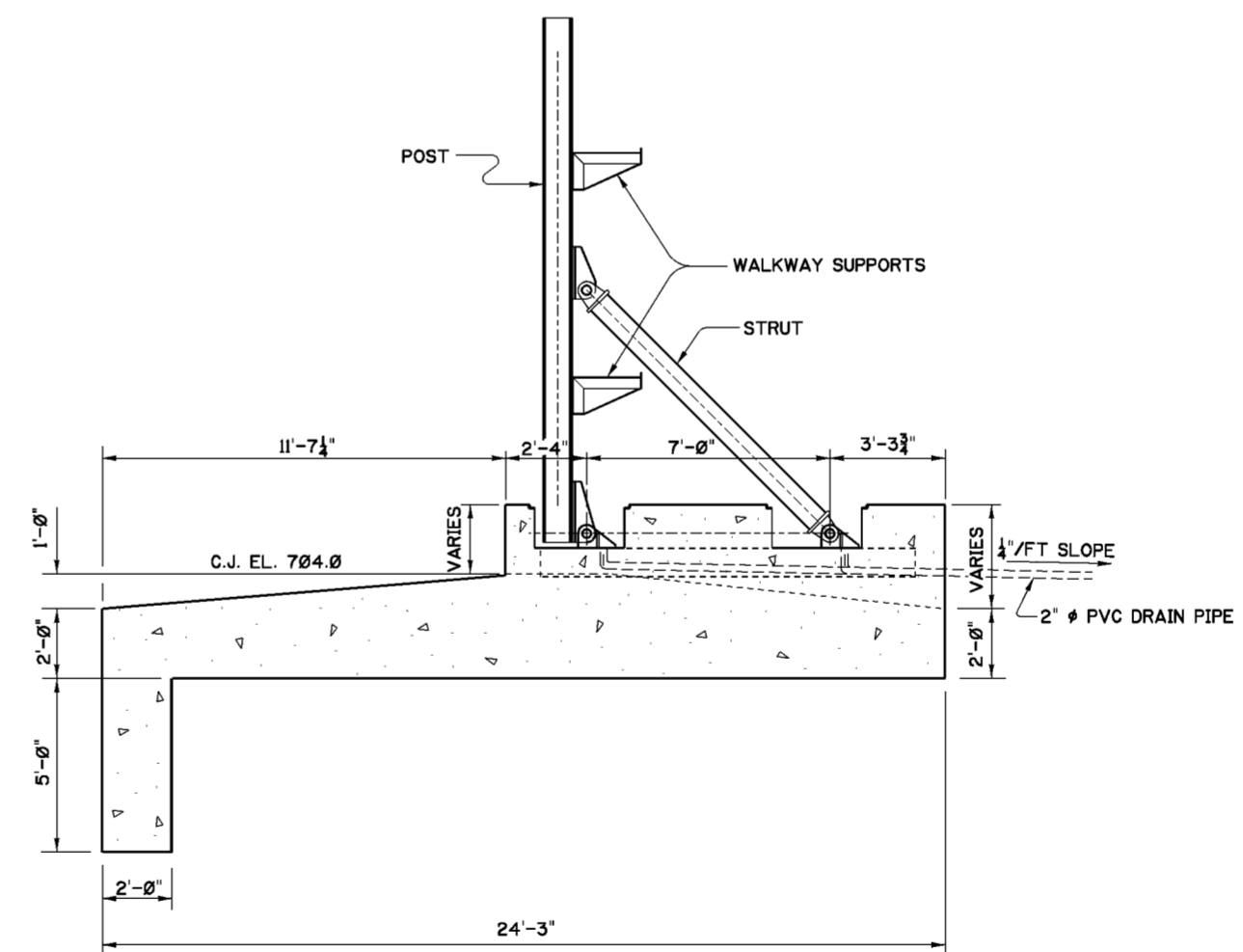
**PLAN**  
SCALE: 3/8"=1'-0"



**SECTION A-A**  
SCALE: 3/8"=1'-0"



**GATE OPEN**  
**SECTION B-B**  
SCALE: 3/8"=1'-0"




**GATE CLOSED**  
**SECTION B-B**  
SCALE: 3/8"=1'-0"

**NOTES**

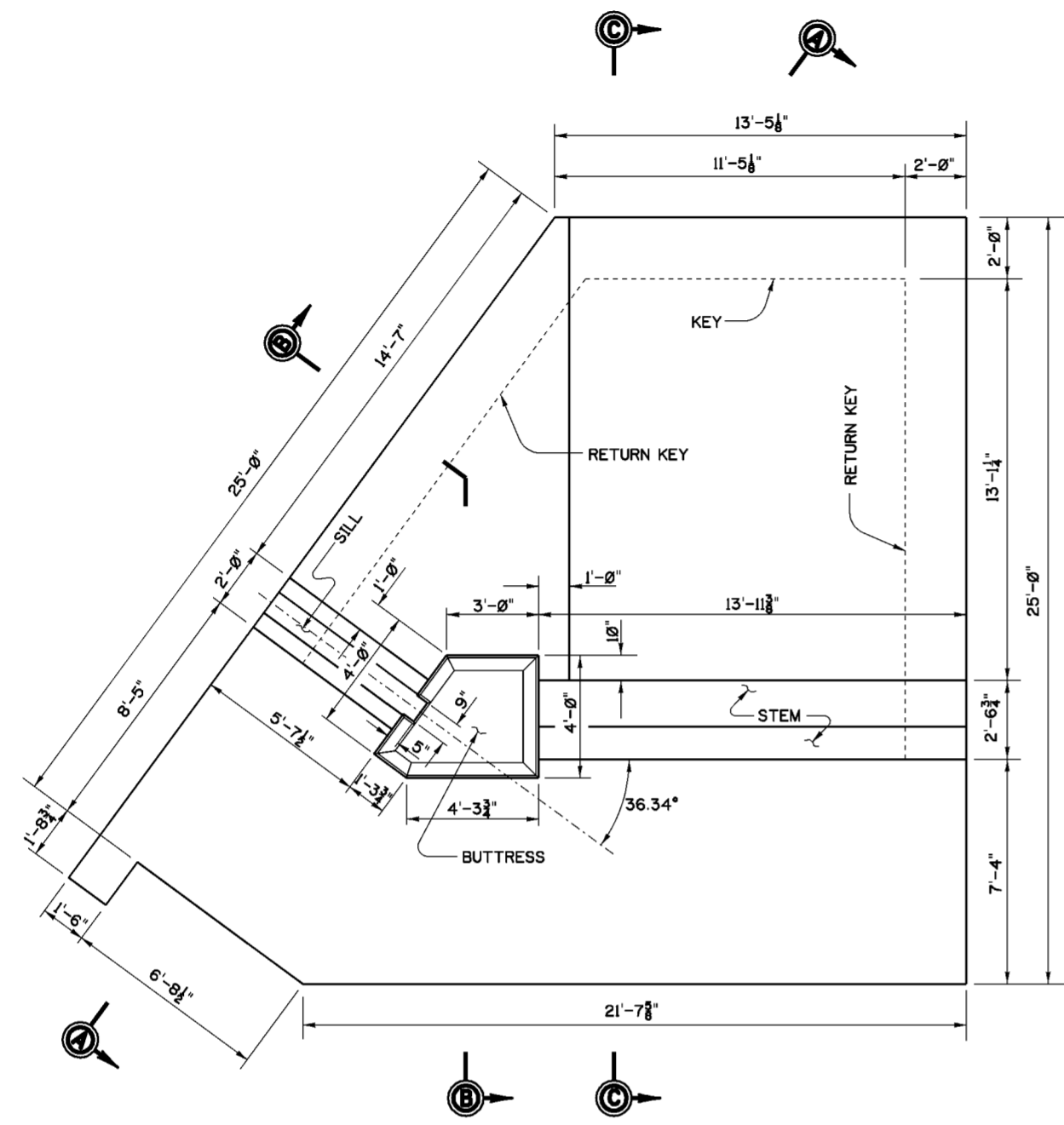
1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR LOCATION OF POST POCKET MONOLITHS SEE DWG. 20.2/3.
4. FOR POST POCKET MONOLITH REINFORCEMENT SEE DWG. 20.2/8.

Revisions			
Symbol	Descriptions	Date	Approved

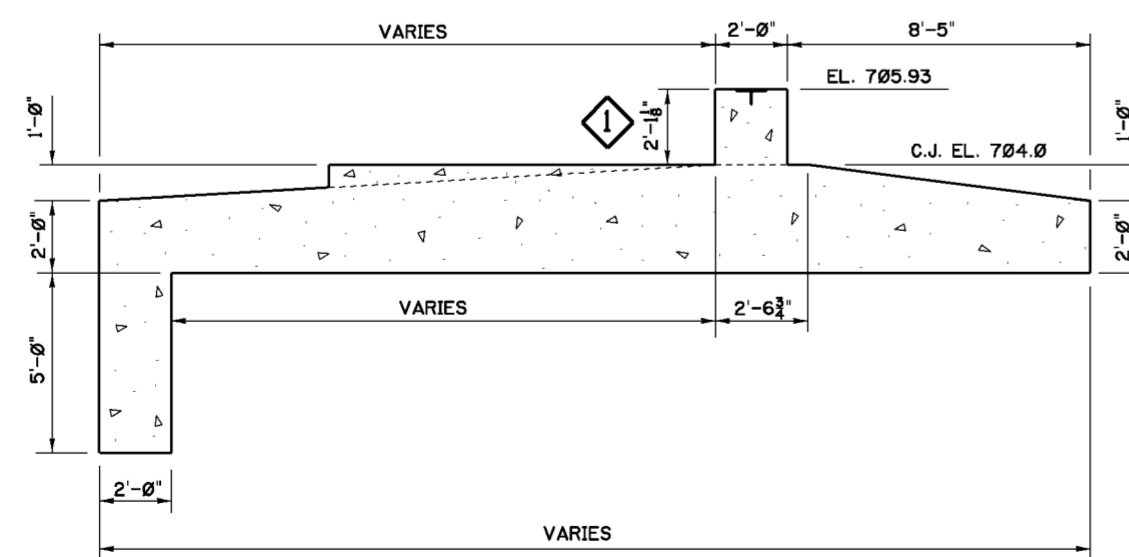
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>GREENLAWN AVE. GATE CLOSURE POST POCKET MONOLITH PLAN AND SECTIONS</b>	FILENAME: 202_5.dgn PEN TABLE:
Drawn by:	B.W.D.		
Checked by:	M.B.S.		
Reviewed by:	AS SHOWN		
Approved by:	MARCH 2000		
Drawing Code: O16-PWC-13		Sheet reference number: 20.2/5	Sheet of

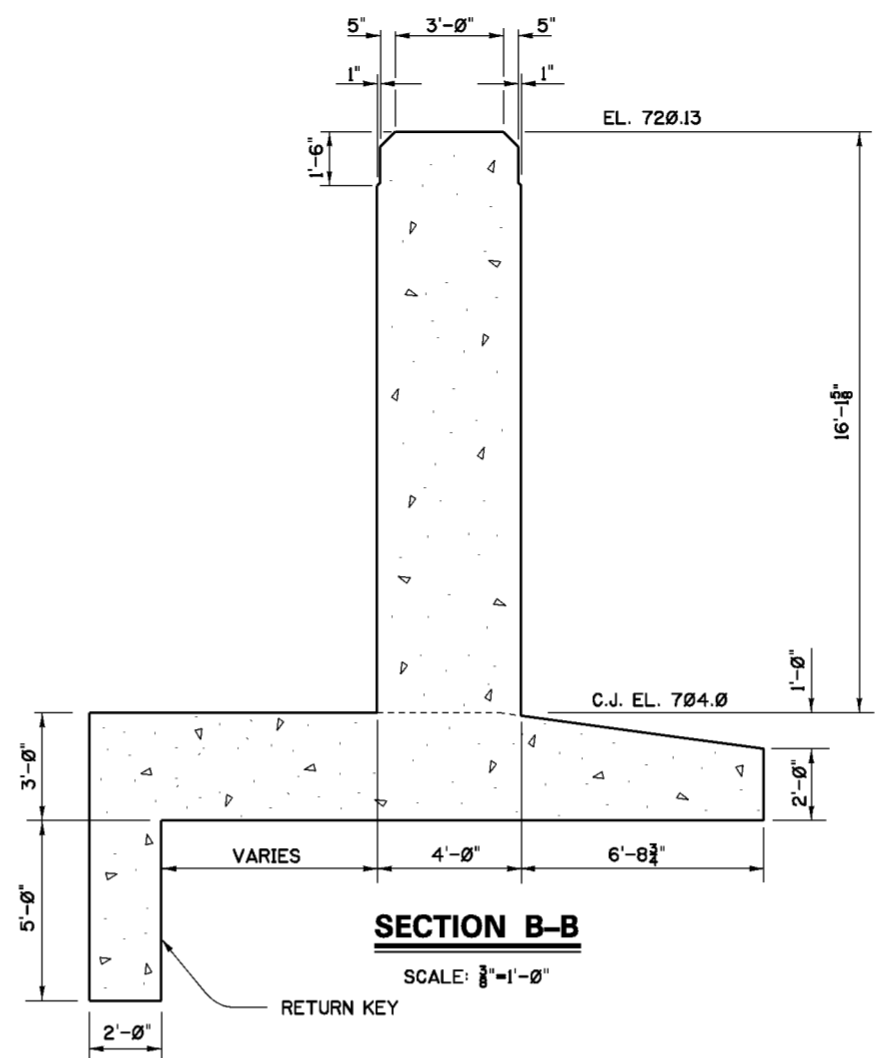




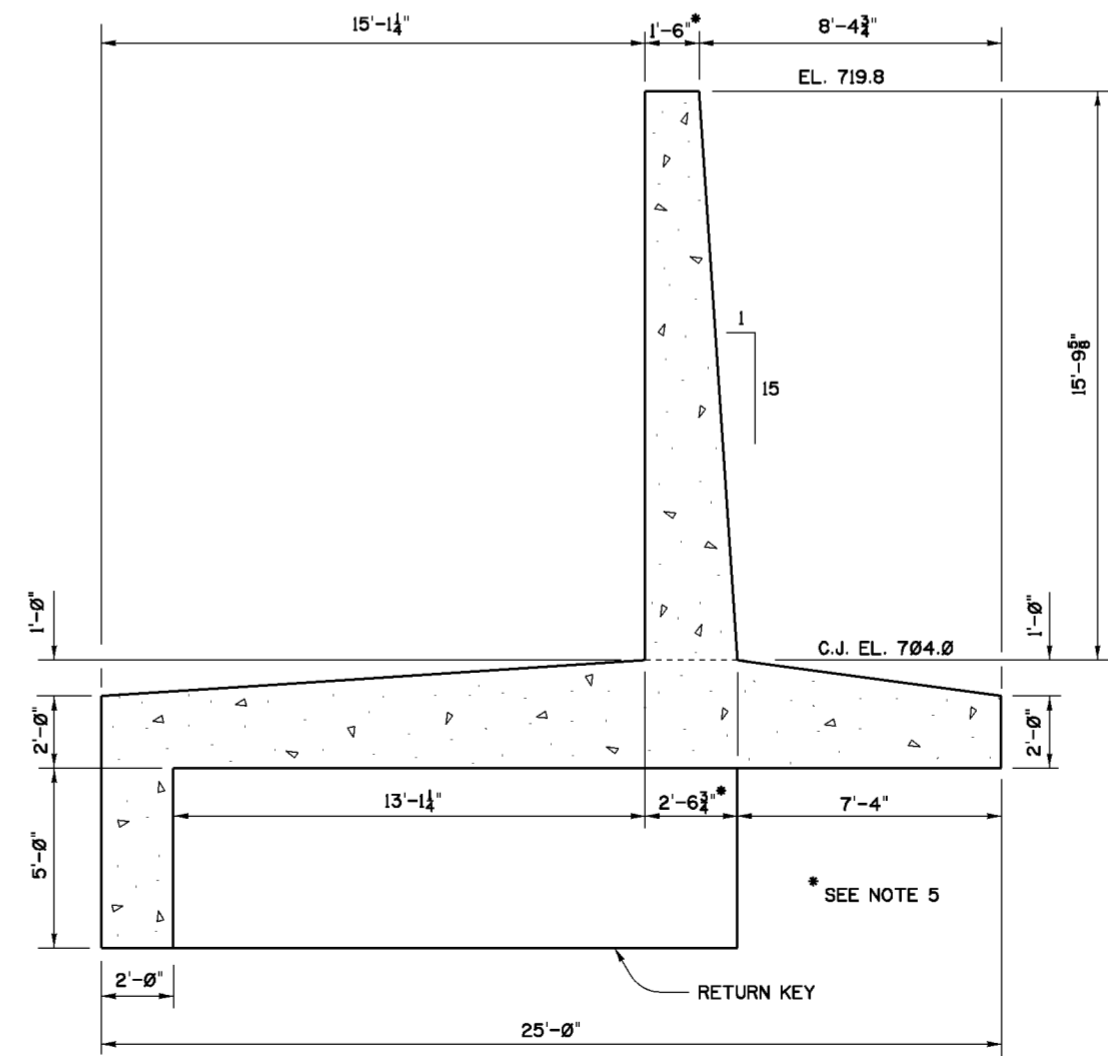
**PLAN**  
SCALE: 3/8"=1'-0"



**SECTION A-A**  
SCALE: 3/8"=1'-0"



**SECTION B-B**  
SCALE: 3/8"=1'-0"



**SECTION C-C**  
SCALE: 3/8"=1'-0"

**NOTES**

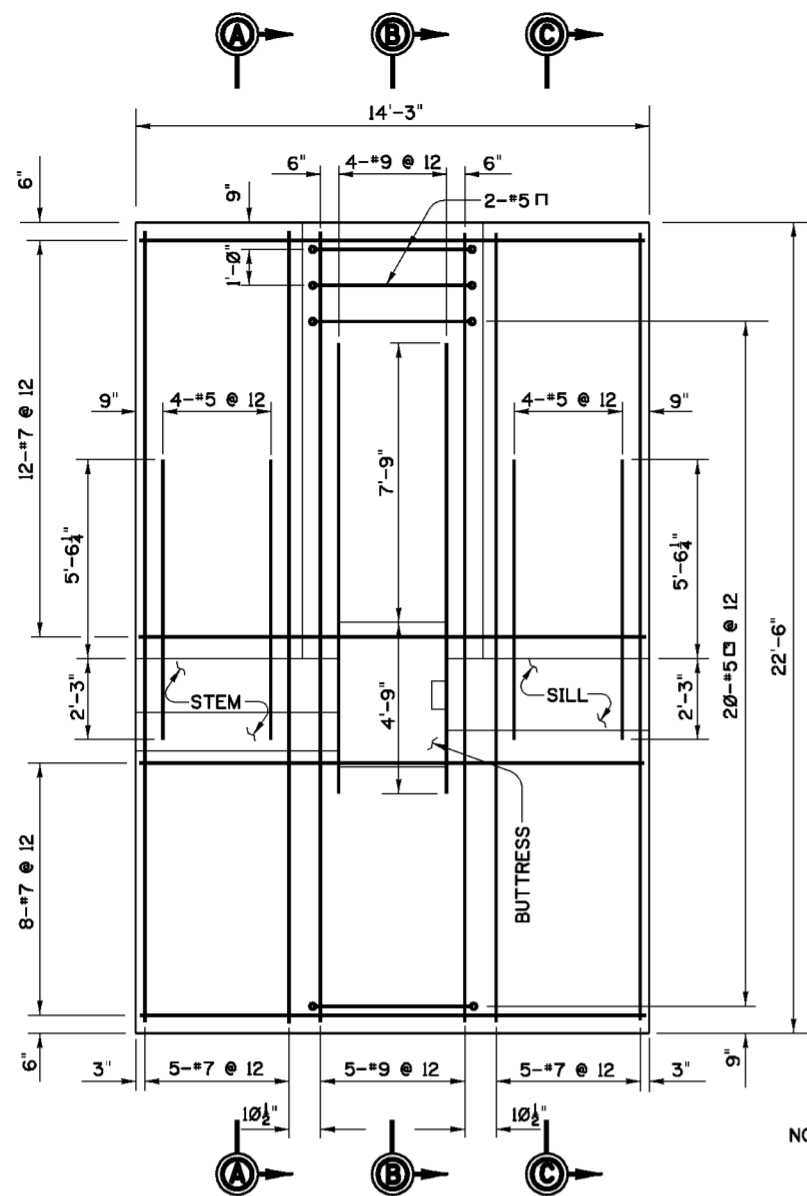
1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR LOCATION OF BUTTRESS MONOLITH SEE DWG. 20.2/3.
4. FOR BUTTRESS MONOLITH REINFORCEMENT SEE DWGS. 20.2/9 AND 20.2/10.
5. WALL STEM MASONRY STRUCTURAL DIMENSIONS EXCLUDE FRACTURED FIN SURFACE TREATMENT, SEE DWG. 20.1/13.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS PER CHANGE REQUEST MC015	9-17-01	B.W.D.

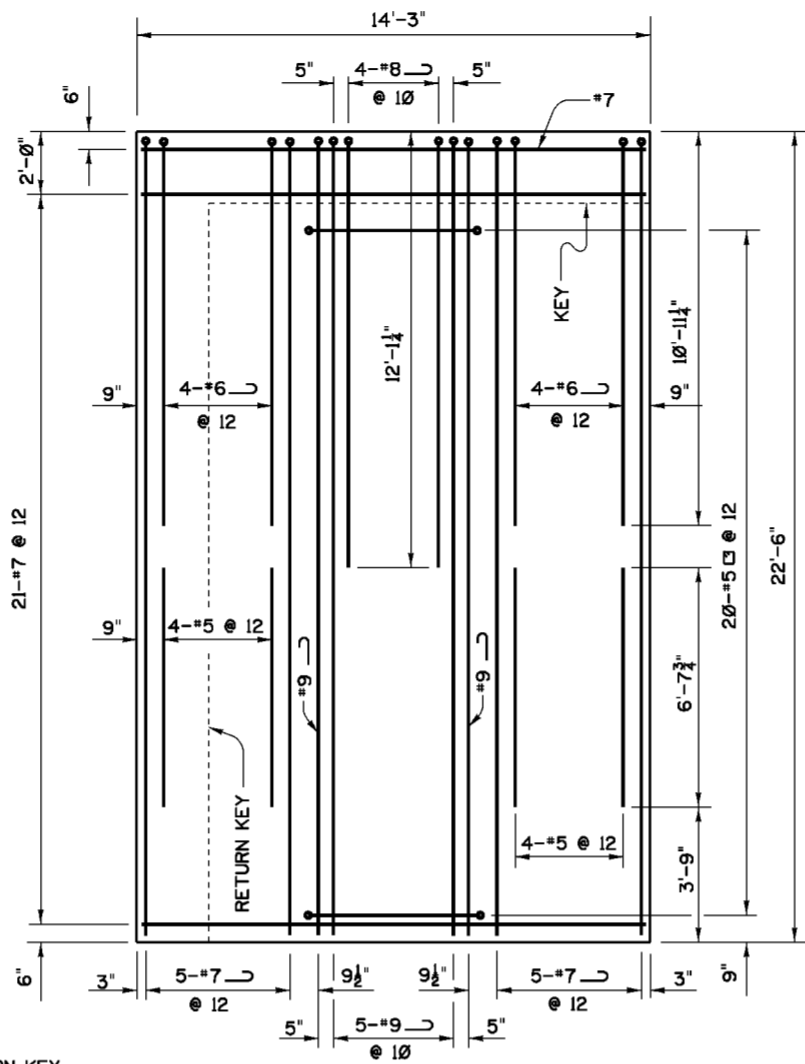
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
HUNTINGTON, WEST VIRGINIA

Designed by:	M.B.S.	
Drawn by:	B.W.D.	
Checked by:	M.B.S.	
Reviewed by:		
Approved by:		

Scale:	AS SHOWN	Sheet reference number:	FILENAME: 202_6a.dgn
Date:	MARCH 2000		PEN TABLE:
Drawing Code:	O16-PWC-13	20.2/6	Sheet of



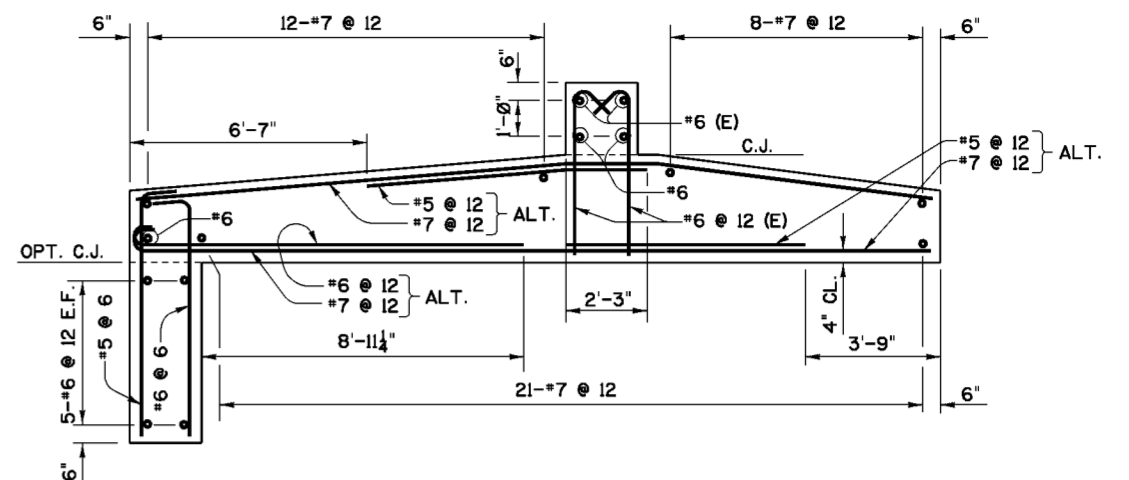
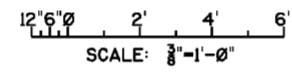
TOP REINFORCEMENT



BOTTOM REINFORCEMENT

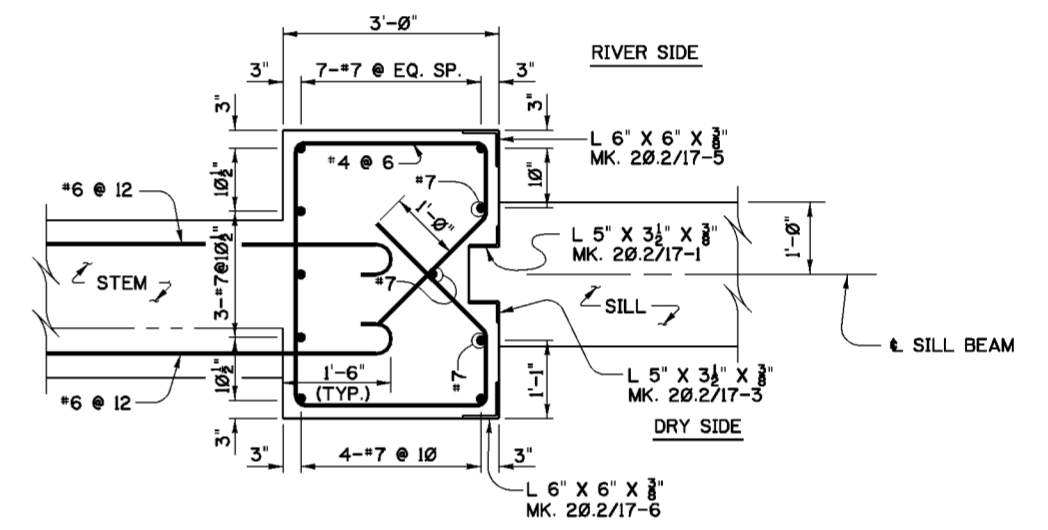
NOTE:  
KEY AND RETURN KEY  
REINFORCEMENT NOT SHOWN

PLAN - BASE REINFORCEMENT



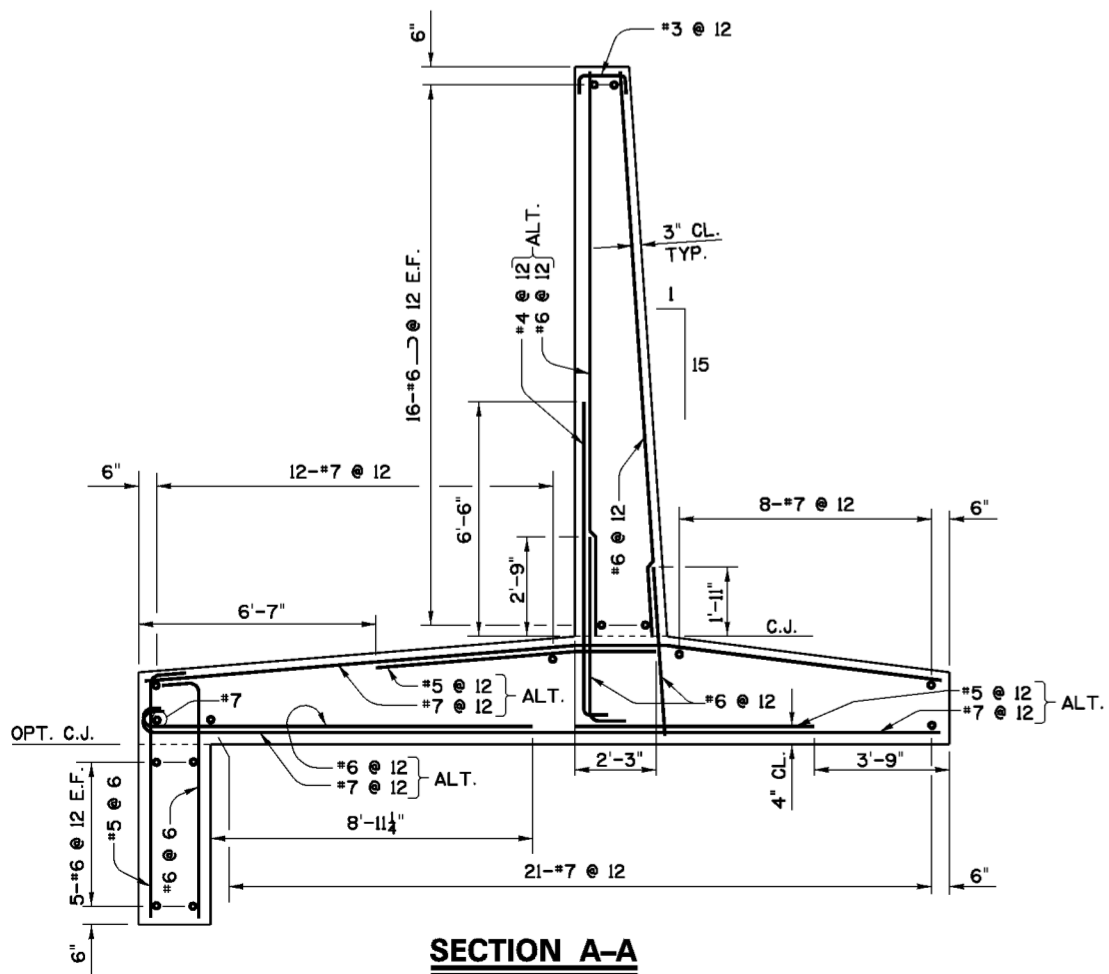
SECTION C-C

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



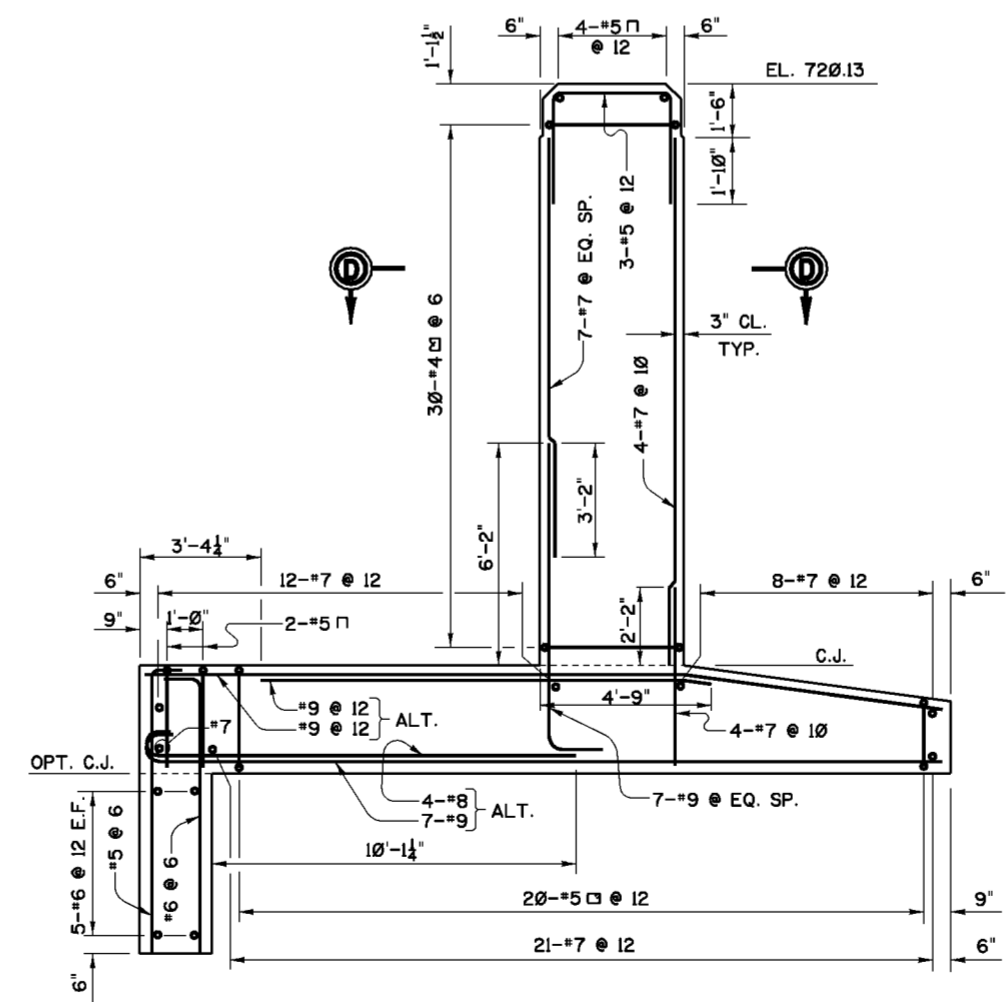
SECTION D-D

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



SECTION A-A

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



SECTION B-B

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

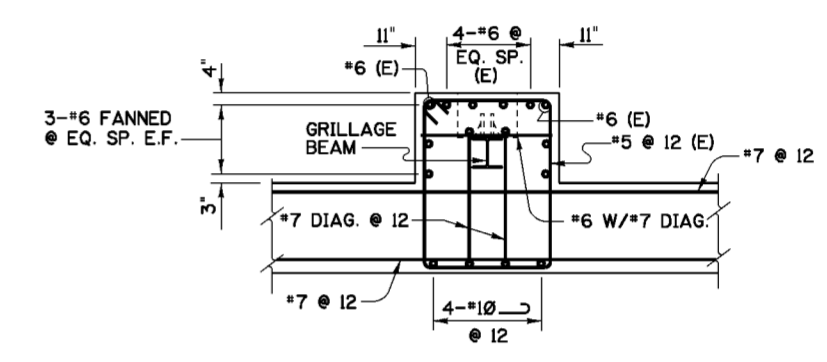
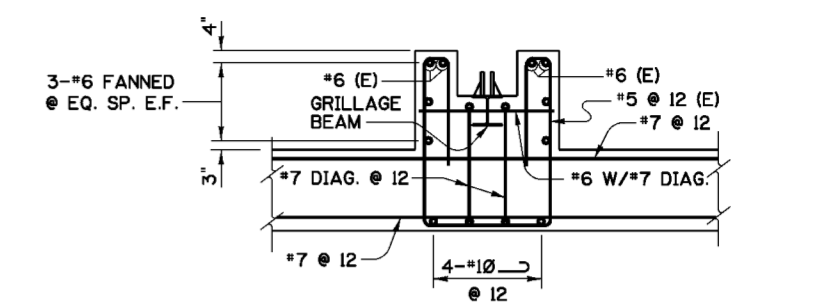
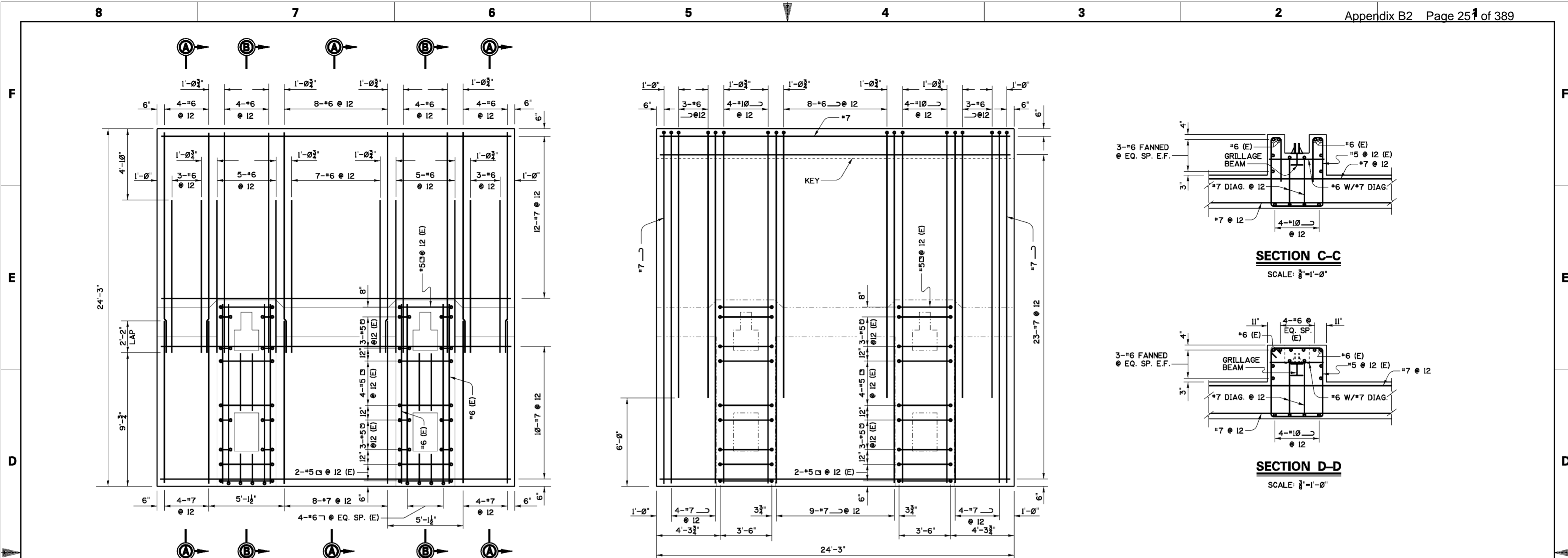
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DIMENSIONS SEE DWG. 20.2/4.
4. RETURN KEY REINFORCEMENT SAME AS KEY REINFORCEMENT.

Revisions			
Symbol	Descriptions	Date	Approved

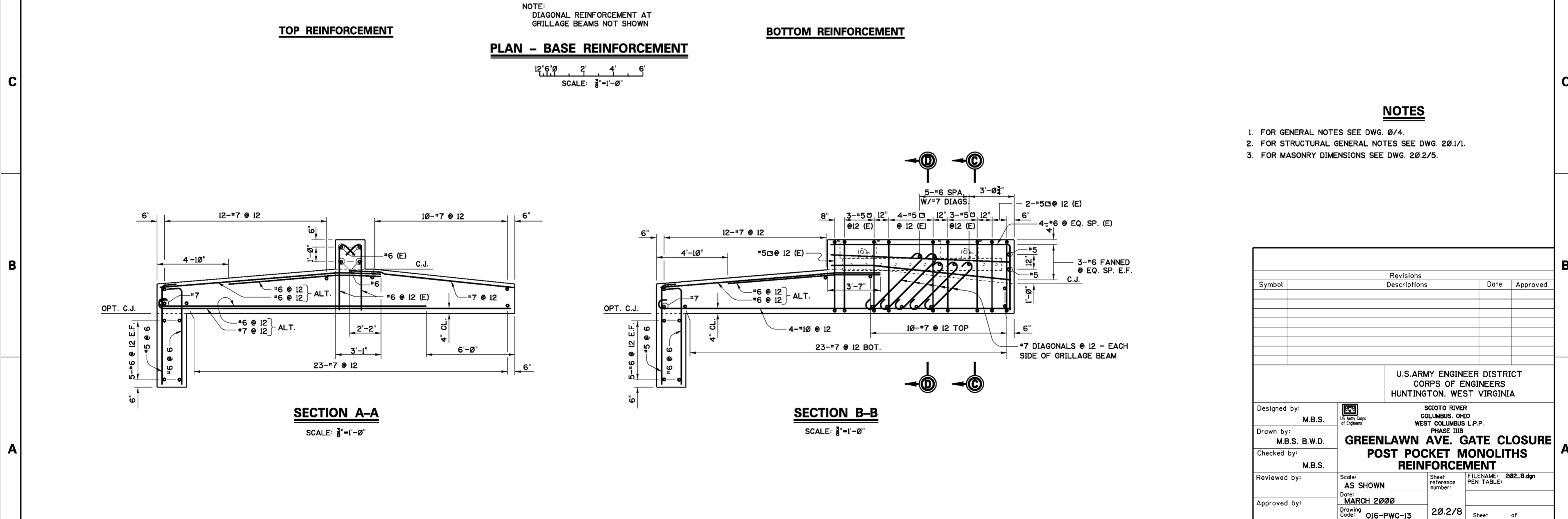
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	Drawn by: M.B.S. B.W.D.	Checked by: M.B.S.	Reviewed by: AS SHOWN
SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B		<b>GREENLAWN AVE. GATE CLOSURE                  NORTH BUTTRESS MONOLITH                  REINFORCEMENT</b>	
Approved by:	Date: MARCH 2000	Sheet reference number: 20.2/7	FILENAME: PEN TABLE: 20.2.7.dgn
Drawing Code: O16-PWC-13		20.2/7	Sheet of



**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DIMENSIONS SEE DWG. 20.2/5.

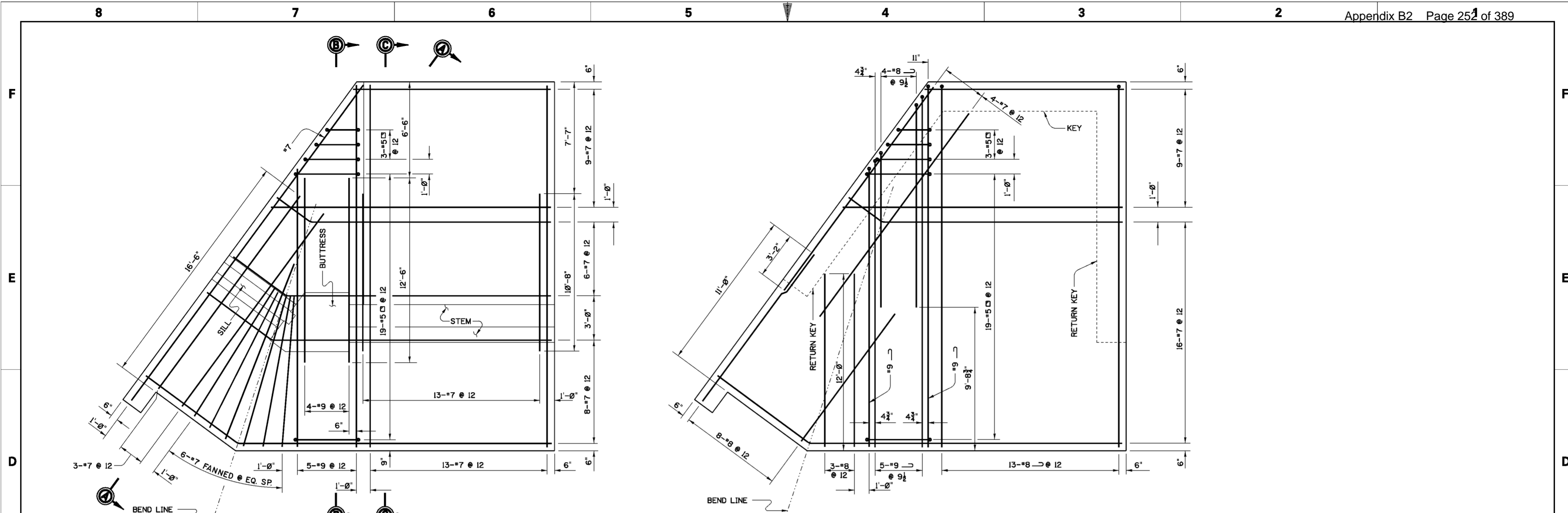


Revisions			
Symbol	Descriptions	Date	Approved

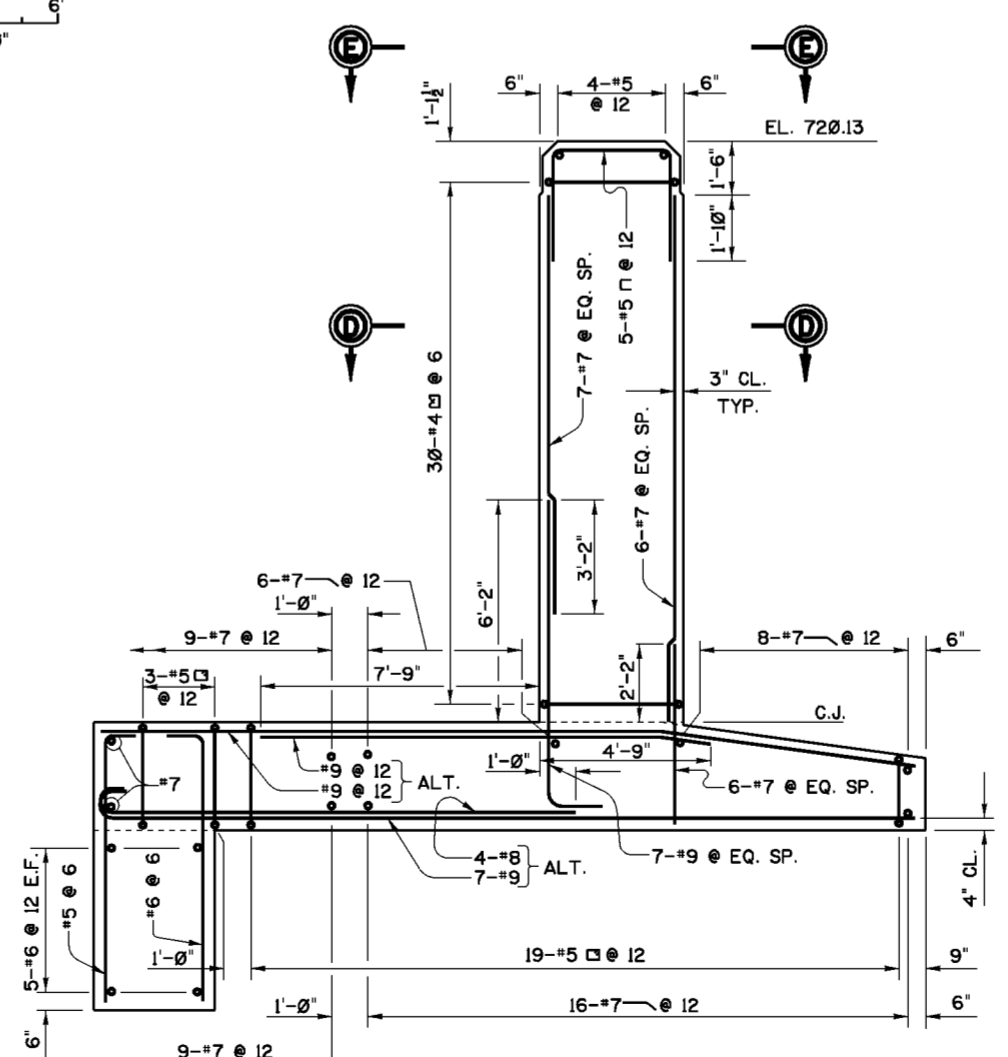
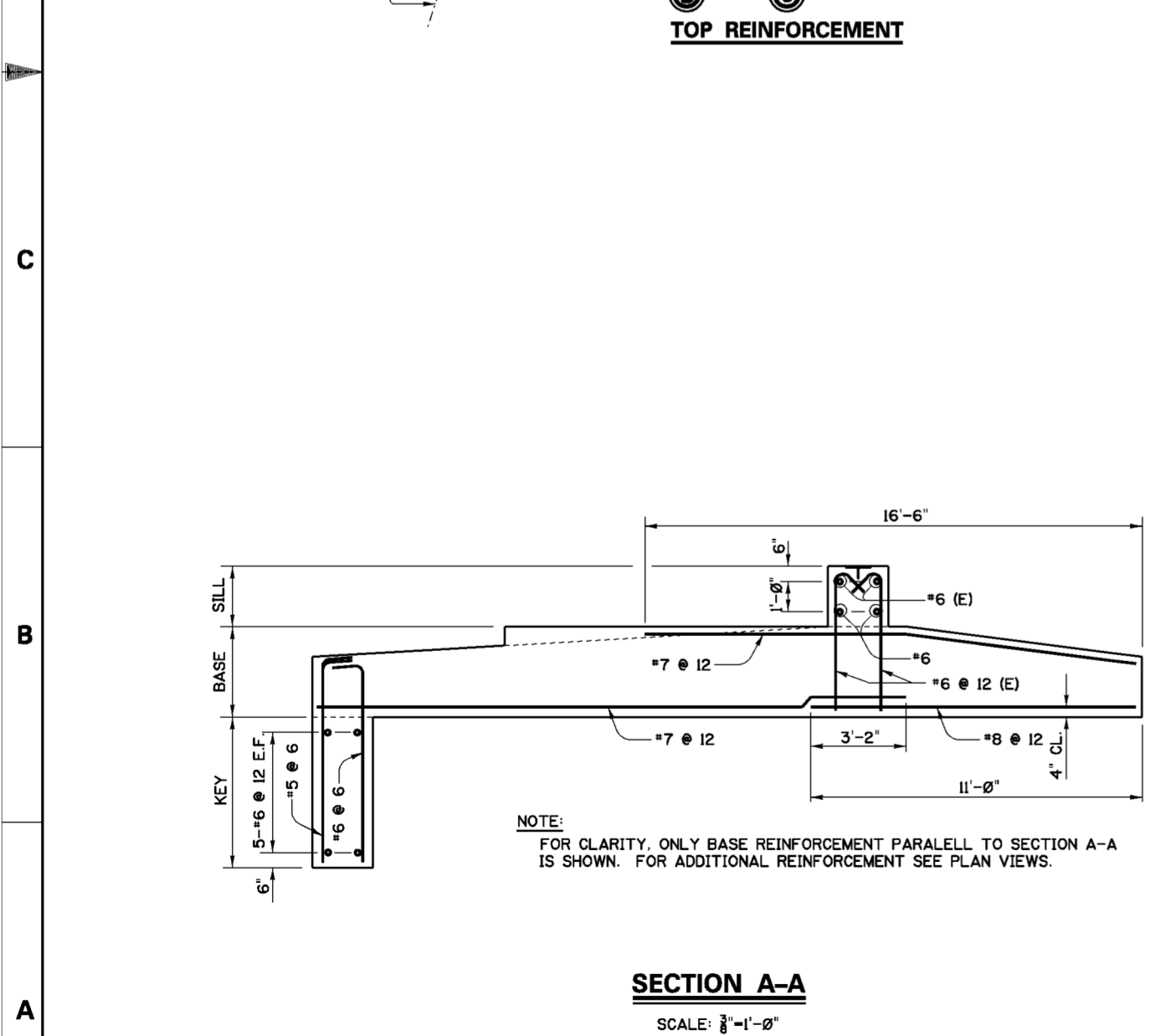
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III <b>GREENLAWN AVE. GATE CLOSURE POST POCKET MONOLITHS REINFORCEMENT</b>	
Drawn by:	M.B.S. B.W.D.		
Checked by:	M.B.S.		
Reviewed by:	AS SHOWN		
Approved by:	MARCH 2000		
Scale:		Sheet reference number:	FILENAME: 202.8.dgn
Drawing Code:		20.2/8	PEN TABLE:
016-PWC-13		20.2/8	Sheet of

WORK AS CONSTRUCTED



**PLAN - BASE REINFORCEMENT**

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




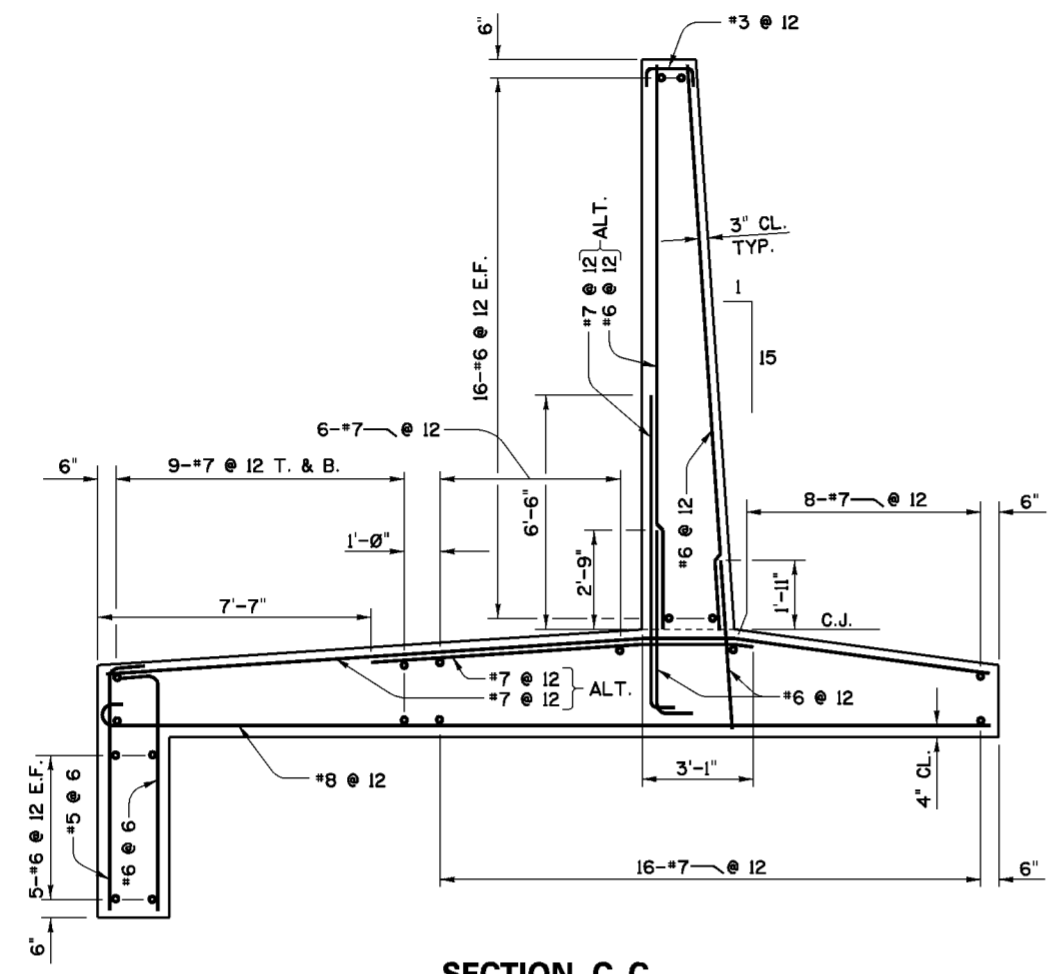
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 20.1/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DIMENSIONS SEE DWG. 20.2/4.
4. RETURN KEY REINFORCEMENT SAME AS KEY REINFORCEMENT.
5. FOR SECTIONS C-C, D-D, AND VIEW E-E SEE DWG. 20.2/10.

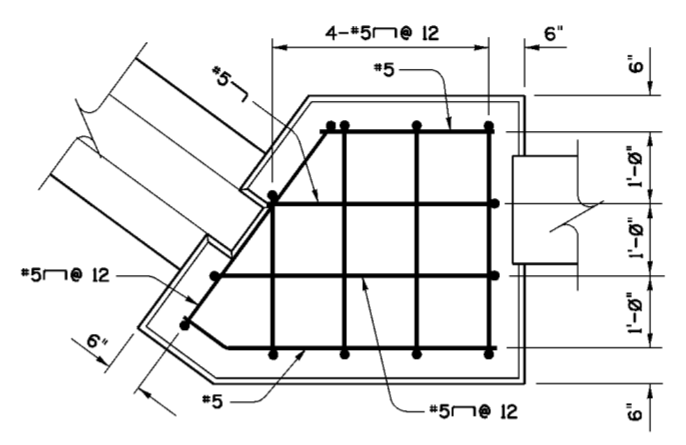
Revisions			
Symbol	Descriptions	Date	Approved

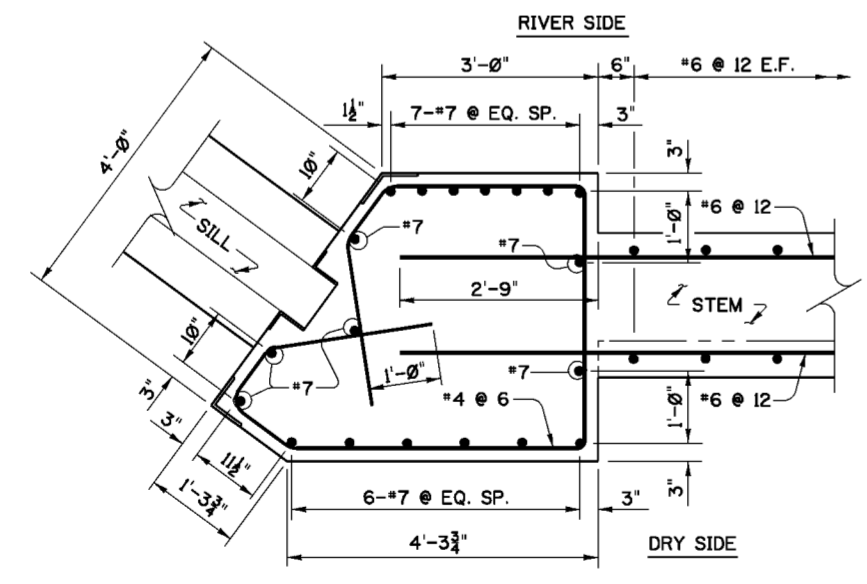
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	Checked by: M.B.S.	Reviewed by:
Drawn by: B.W.D.			
Approved by:	Scale: AS SHOWN	Sheet reference number: 20.2/9	FILENAME: 20.2_9.dgn
	Date: MARCH 2000		PEN TABLE:
	Drawing Code: O16-PWC-13	20.2/9	Sheet of



**SECTION C-C**  
SCALE: 3/8"=1'-0"



**VIEW E-E**  
SCALE: 3/8"=1'-0"




**SECTION D-D**  
SCALE: 3/8"=1'-0"

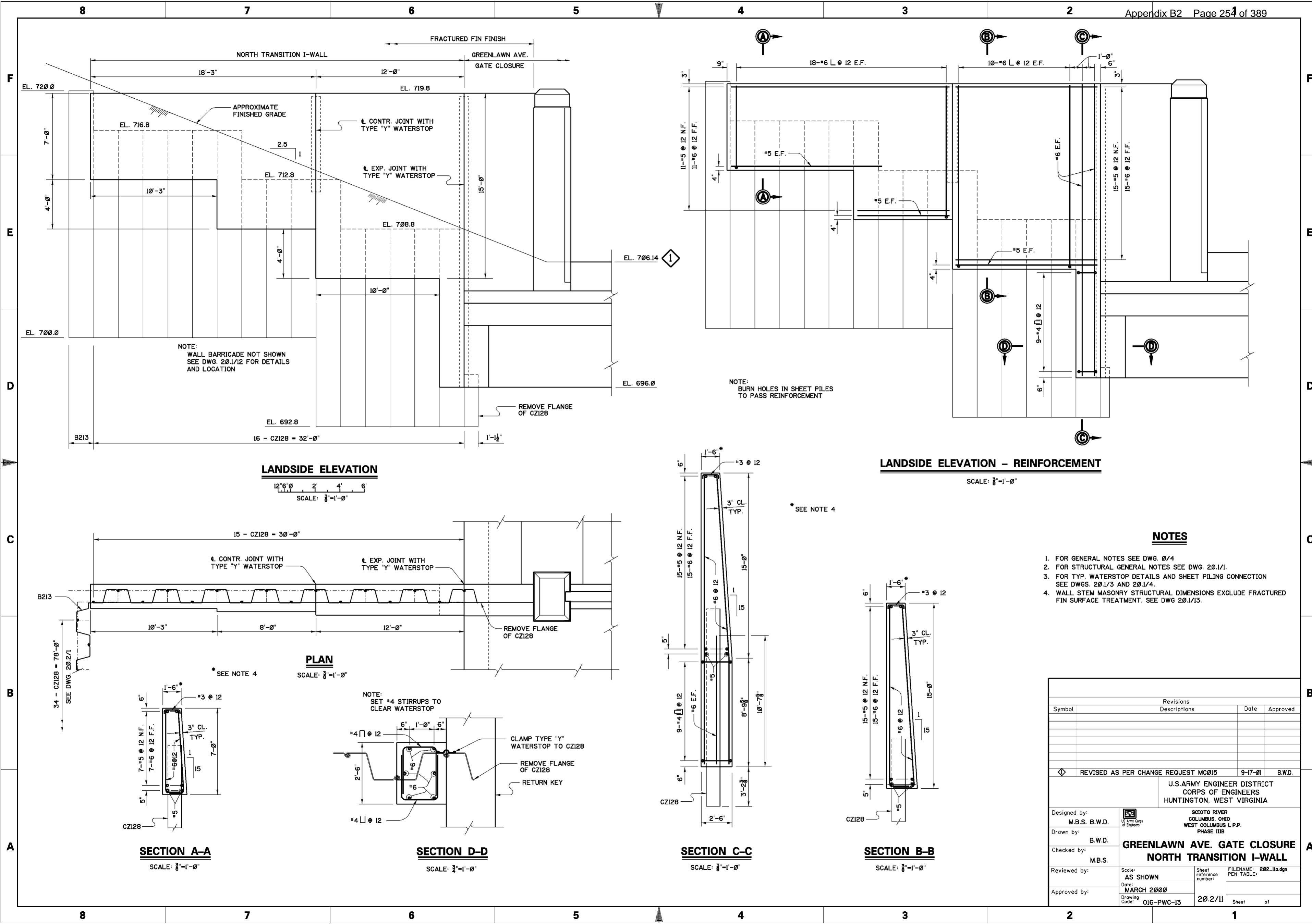
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 20.1/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DIMENSIONS SEE DWG. 20.2/6.
4. FOR LOCATIONS OF SECTIONS C-C, D-D, AND VIEW E-E SEE DWG. 20.2/9.

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>GREENLAWN AVE. GATE CLOSURE                  SOUTH BUTTRESS MONOLITH                  REINFORCEMENT (SHEET 2 OF 2)</b>	FILENAME: 202_10.dgn	
Drawn by: M.B.S. B.W.D.		Scale: AS SHOWN	Sheet reference number:
Checked by: M.B.S.		Date: MARCH 2000	PEN TABLE:
Reviewed by:		Drawing Code: O16-PWC-13	202.2/10
Approved by:			Sheet of



- NOTES**
1. FOR GENERAL NOTES SEE DWG. 20.1/4
  2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
  3. FOR TYP. WATERSTOP DETAILS AND SHEET PILING CONNECTION SEE DWGS. 20.1/3 AND 20.1/4.
  4. WALL STEM MASONRY STRUCTURAL DIMENSIONS EXCLUDE FRACTURED FIN SURFACE TREATMENT, SEE DWG 20.1/13.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS PER CHANGE REQUEST MC015	9-17-01	B.W.D.

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

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

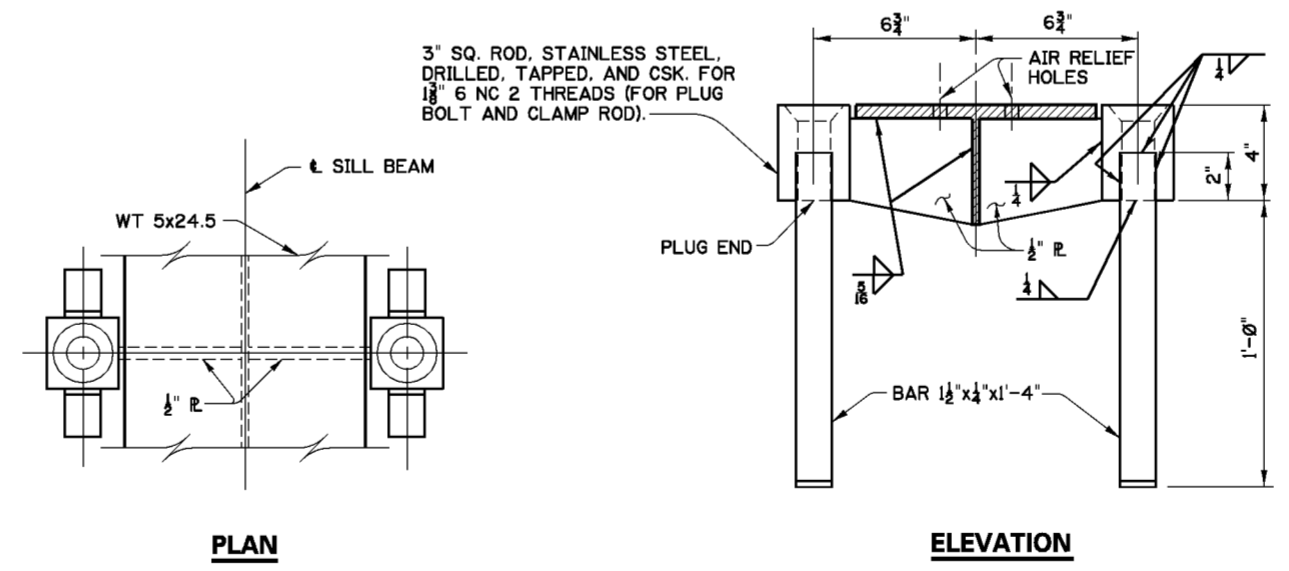
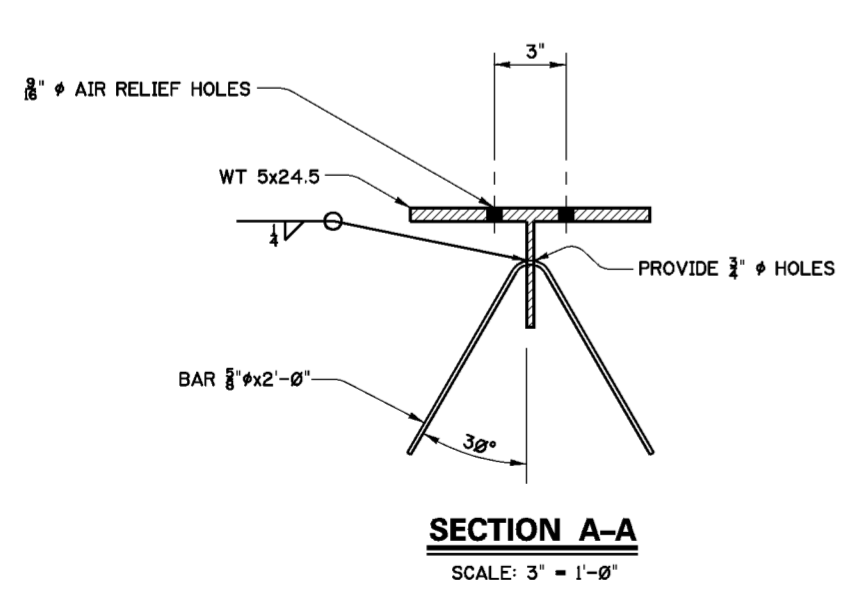
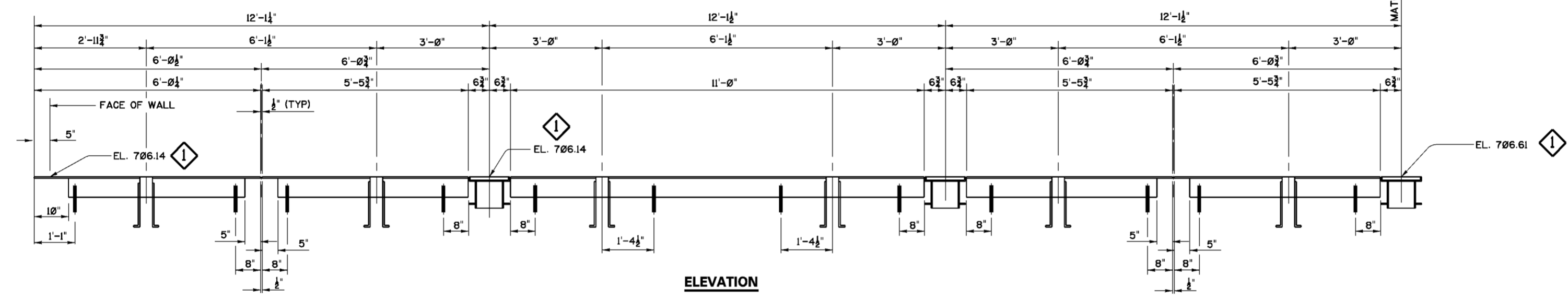
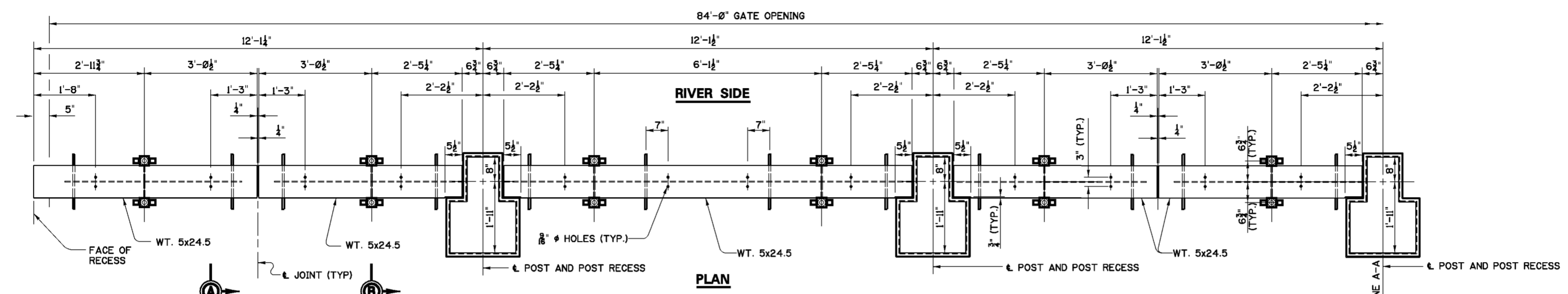
**GREENLAWN AVE. GATE CLOSURE  
NORTH TRANSITION I-WALL**

Designed by: M.B.S. B.W.D.  
Drawn by: B.W.D.  
Checked by: M.B.S.  
Reviewed by:  
Approved by:

Scale: AS SHOWN  
Date: MARCH 2000  
Drawing Code: O16-PWC-13

Sheet reference number: 20.2/11  
FILENAME: 202\_11a.dgn  
PEN TABLE:  
Sheet of

WORK AS CONSTRUCTED



**NOTES**

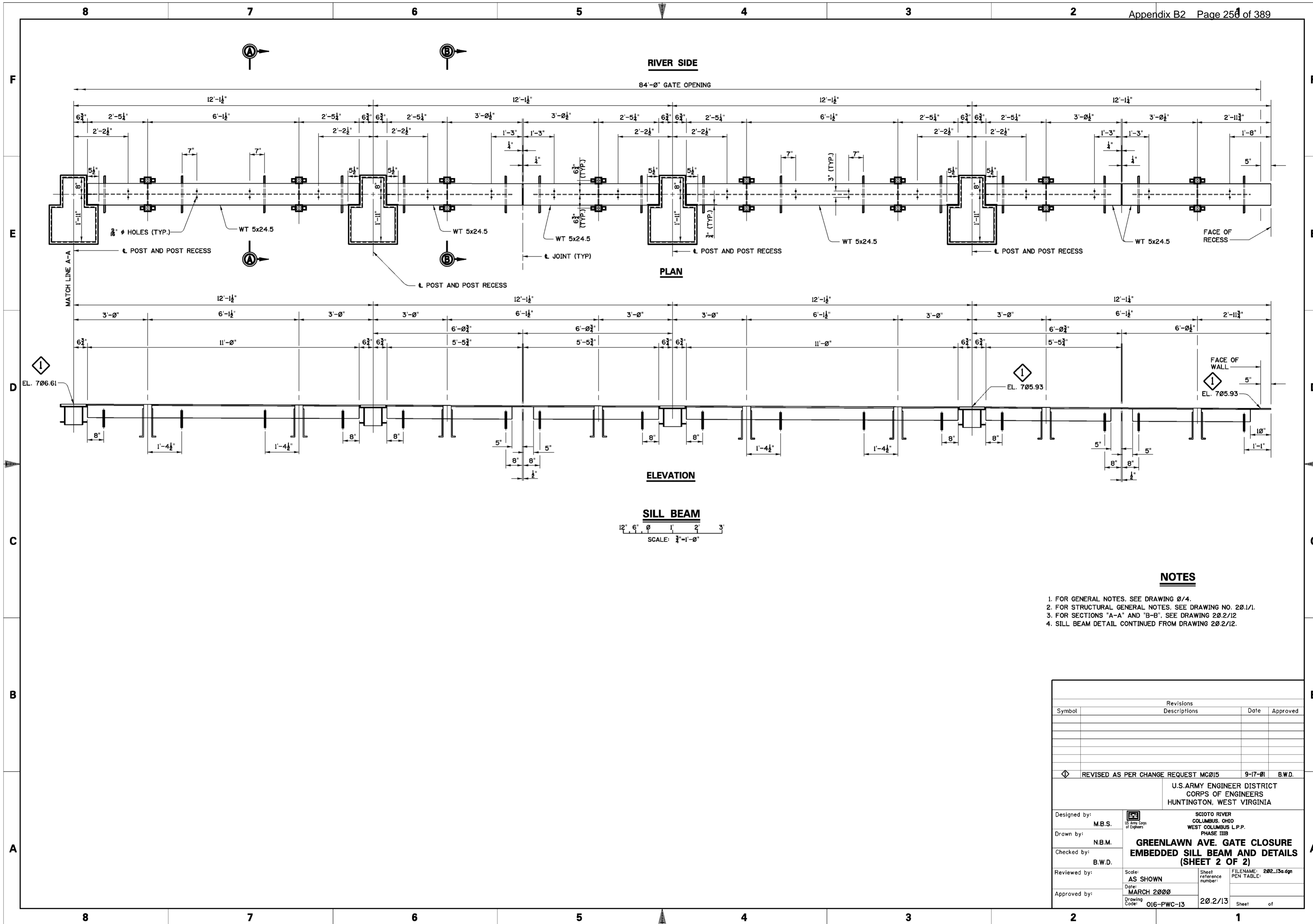
1. FOR GENERAL NOTES, SEE DRAWING 20/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DRAWING 20/1/1.
3. SILL BEAM DETAILS CONTINUED ON DRAWING 20/2/1/3.
4. CORROSION RESISTANT FILLER METAL SHALL BE USED FOR ALL WELDING TO CORROSION RESISTING STEEL.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS PER CHANGE REQUEST MC015	9-17-01	B.W.D.

U.S. ARMY ENGINEER DISTRICT CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B <b>GREENLAWN AVE. GATE CLOSURE                  EMBEDDED SILL BEAM AND DETAILS                  (SHEET 1 OF 2)</b>	
Drawn by:	N.B.M.		
Checked by:	B.W.D.		
Reviewed by:			
Approved by:			
Scale:	AS SHOWN	Sheet reference number:	FILENAME: 202_12a.dgn
Date:	MARCH 2000		PEN TABLE:
Drawing Code:	O16-PWC-13	202.2/12	Sheet of

WORK AS CONSTRUCTED



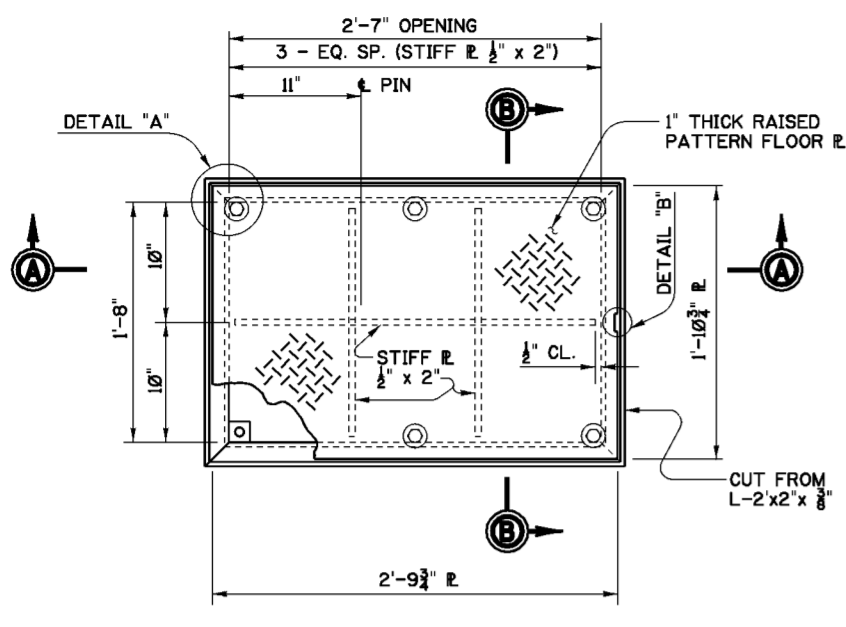
Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS PER CHANGE REQUEST MC015	9-17-01	B.W.D.

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B <b>GREENLAWN AVE. GATE CLOSURE EMBEDDED SILL BEAM AND DETAILS (SHEET 2 OF 2)</b>	Reviewed by:	Scale: AS SHOWN
Drawn by: N.B.M.		Date: MARCH 2000	Sheet reference number: 20.2/13
Checked by: B.W.D.		FILENAME: 202_13a.dgn	PEN TABLE:
Approved by:		Drawing Code: O16-PWC-13	Sheet of

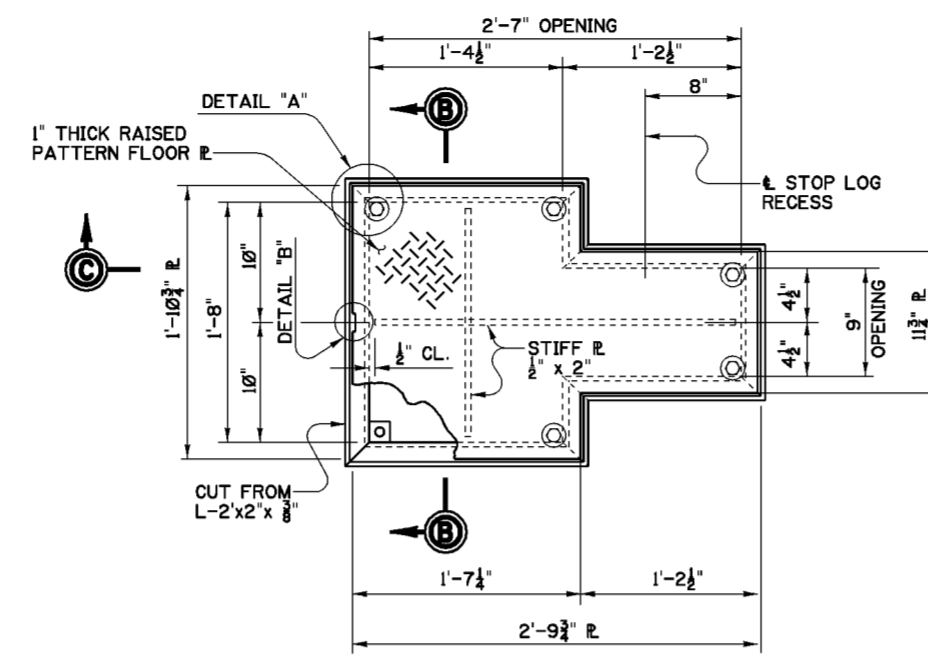
WORK AS CONSTRUCTED





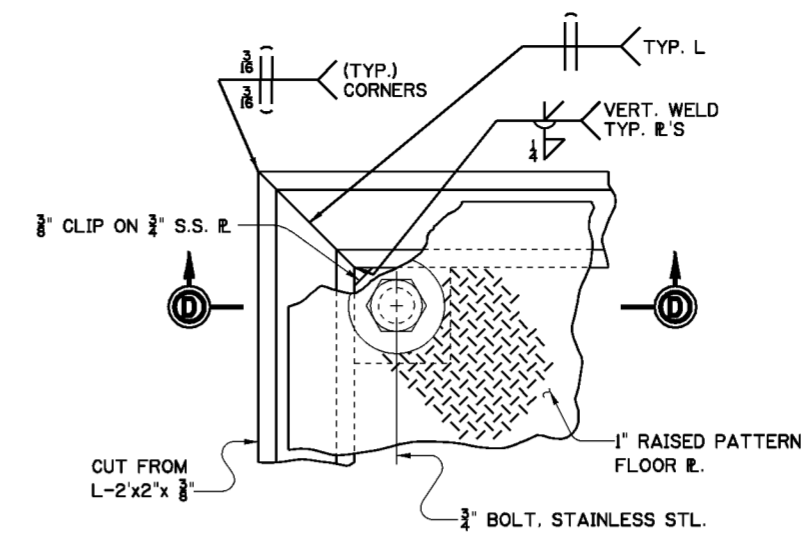
**STRUT RECESS FRAME AND COVER**

MK. 20.2/14-1 MAKE 6  
12" 9" 6" 3" Ø  
SCALE: 1 1/2"=1'-0"



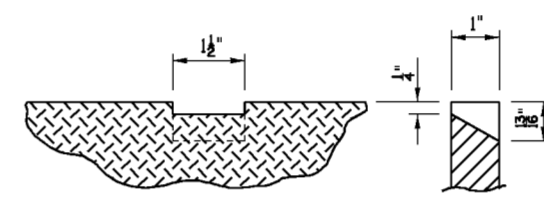
**POST RECESS FRAME AND COVER**

MK. 20.2/14-2 MAKE 6  
SCALE: 1 1/2"=1'-0"



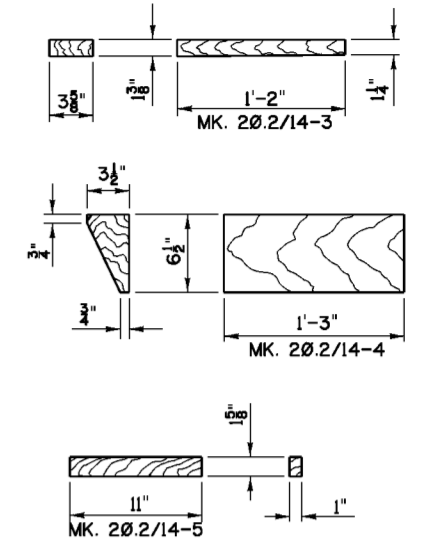
**DETAIL "A"**

SCALE: 6"=1'-0"



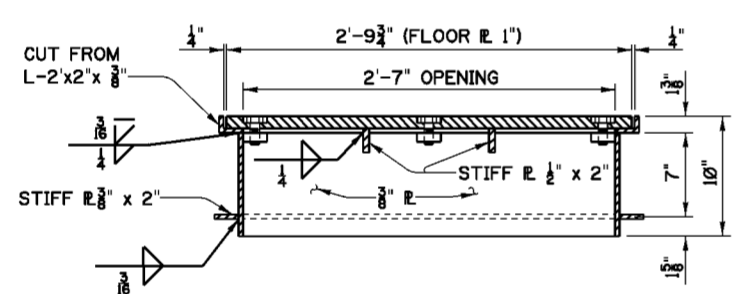
**DETAIL "B"**

SCALE: 6"=1'-0"



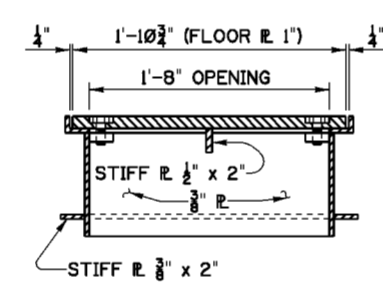
**OAK FILLER BLOCKS**

MK. 20.2/14-3 MAKE 12  
MK. 20.2/14-4 MAKE 24  
MK. 20.2/14-5 MAKE 12  
SCALE: 1 1/2"=1'-0"



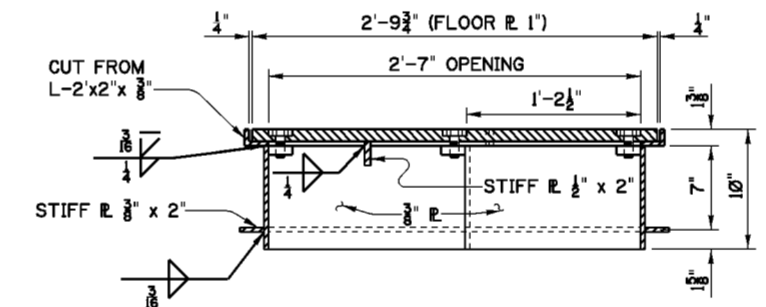
**SECTION A-A**

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



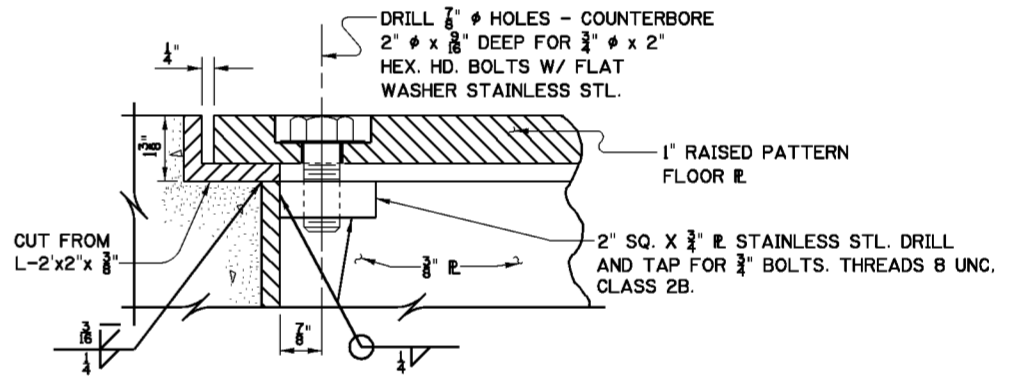
**SECTION B-B**

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



**SECTION C-C**

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

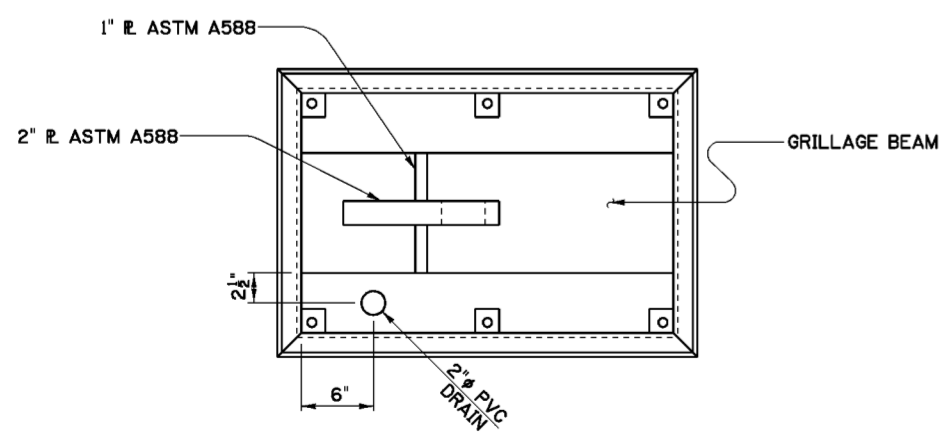


**SECTION D-D**

SCALE: 6"=1'-0"

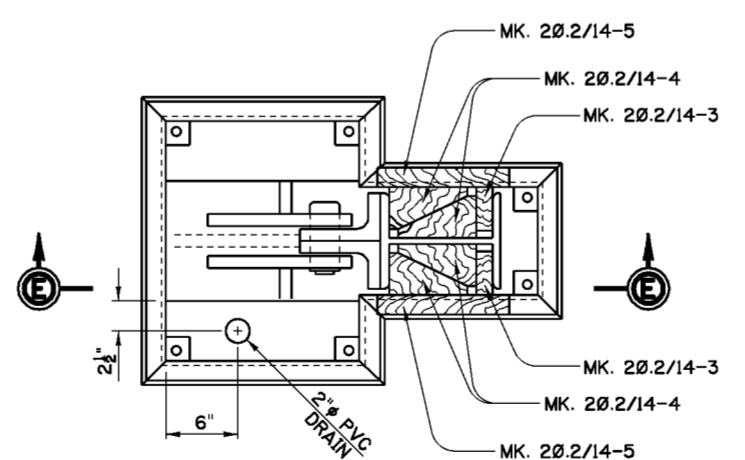
**NOTES**

- FOR GENERAL NOTES SEE DWG. 0/4.
- FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.1/1.
- ALL MATERIALS SHALL BE STRUCTURAL STEEL ASTM A36 UNLESS OTHERWISE NOTED.
- CORROSION RESISTING FILLER METAL SHALL BE USED FOR ALL WELDING TO CORROSION RESISTING STEEL.
- ALL OAK BLOCKING TO BE TREATED WITH CHROMATED COPPER ARSENATE (CCA) AS IN AWPA STANDARD P5. FIELD CUTS ON BLOCKS SHALL BE RESEALED USING COPPER NAPHTHENATE IN ACCORDANCE WITH AWPA STANDARD M4.



**PLAN OF STRUT RECESS**

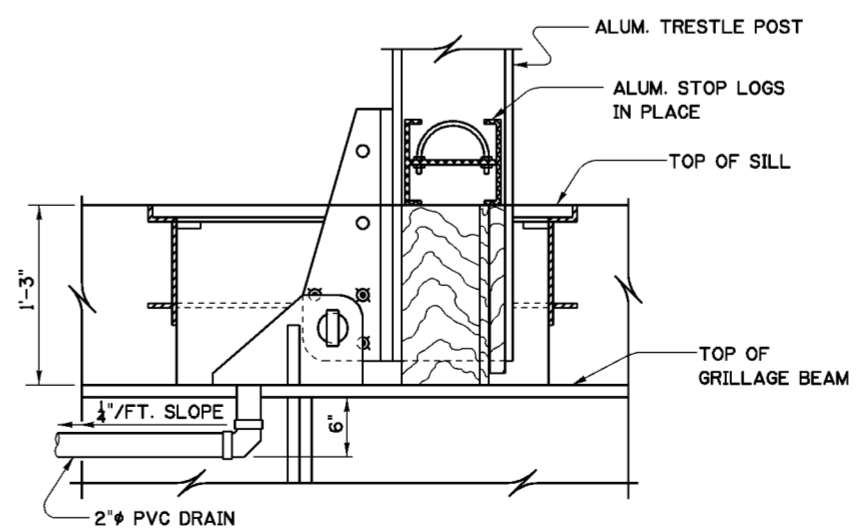
SCALE: 1 1/2"=1'-0"



**PLAN OF POST RECESS**

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

**DETAILS OF FILLER BLOCKS FOR SEALING POST RECESSES**



**SECTION E-E**

Revisions			
Symbol	Descriptions	Date	Approved

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

Designed by: M.B.S. SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB

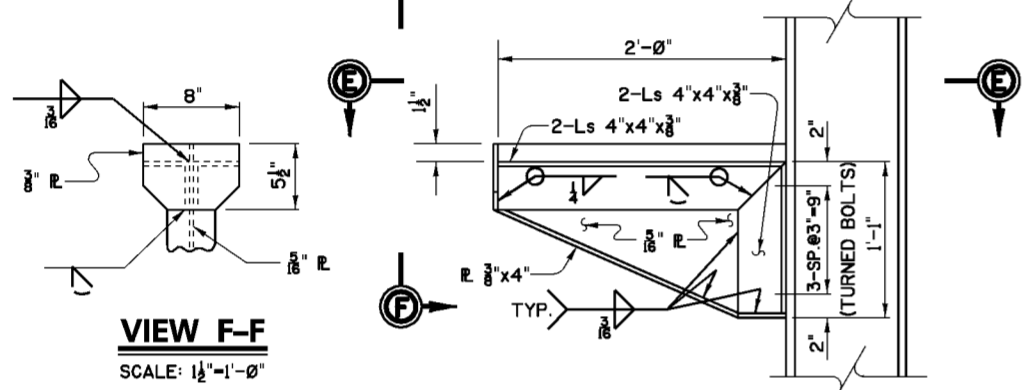
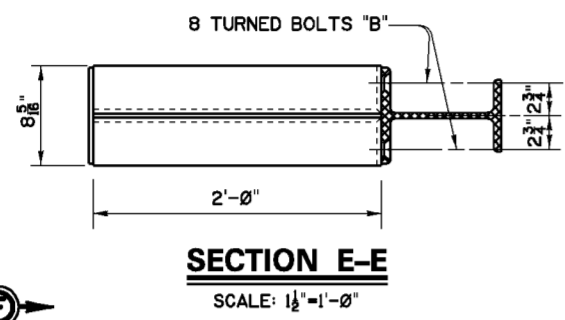
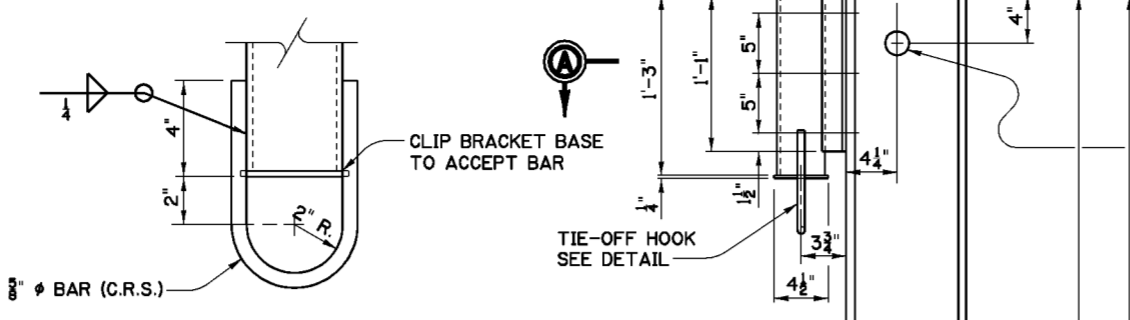
Drawn by: N.B.M. **GREENLAWN AVE. GATE CLOSURE EMBEDDED POCKETS AND COVERS**

Checked by: B.W.D.

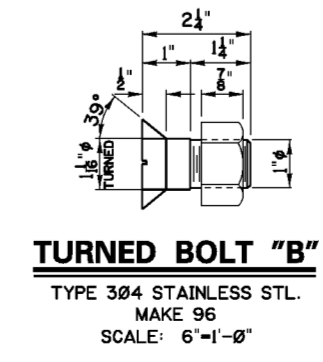
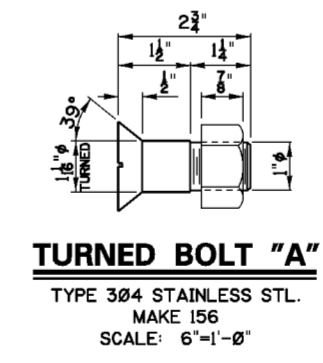
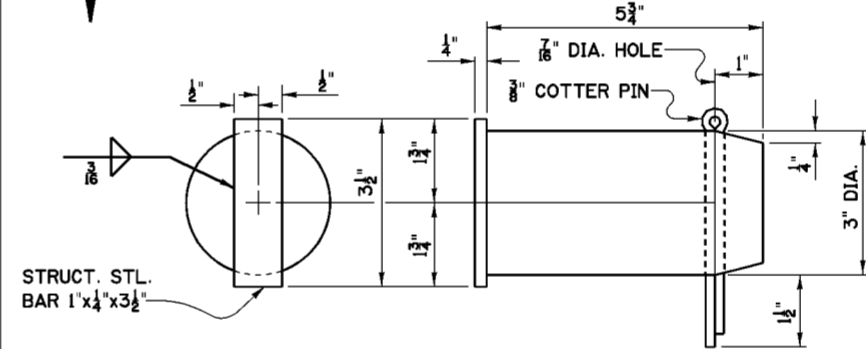
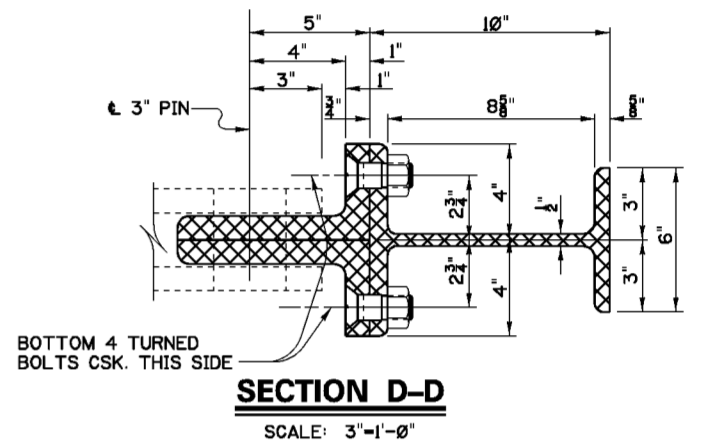
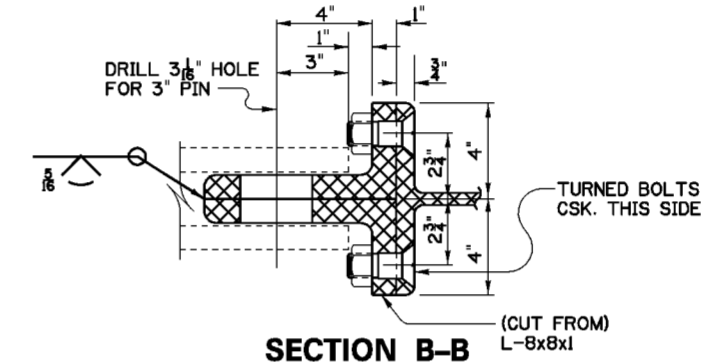
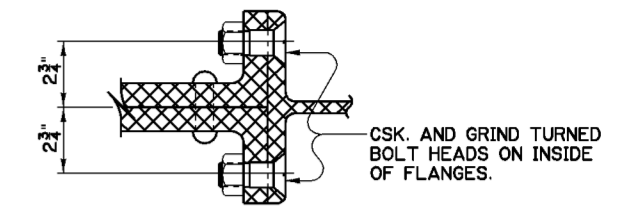
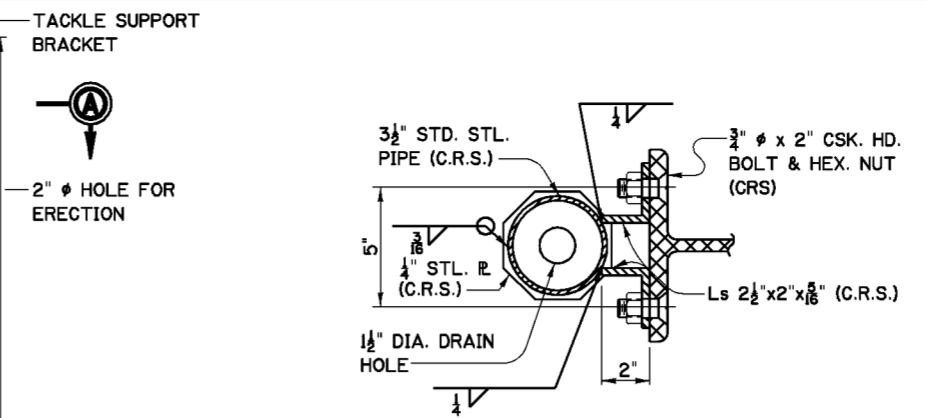
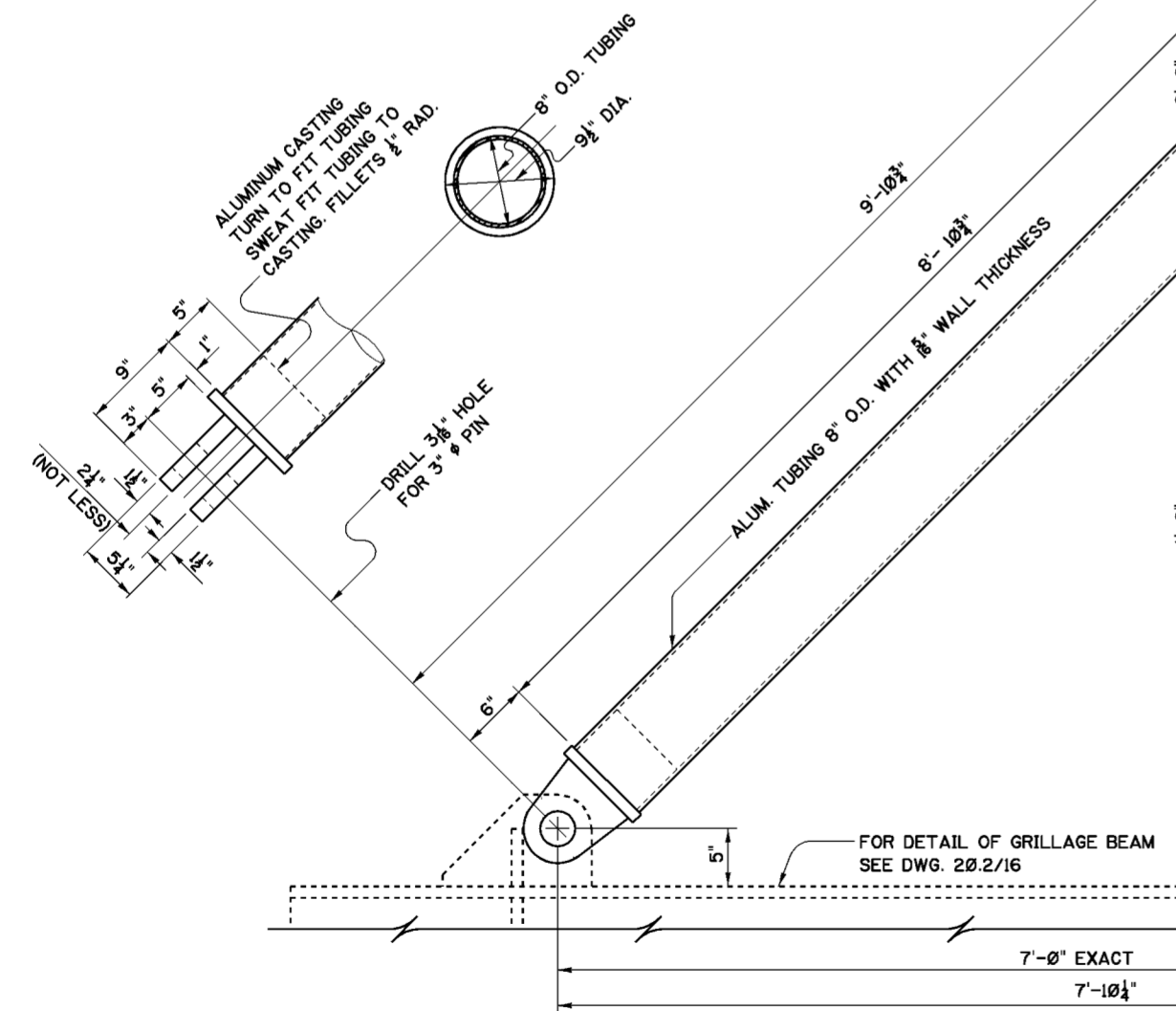
Reviewed by: AS SHOWN  
Date: MARCH 2000  
Drawing Code: O16-PWC-13

Sheet reference number: 20.2/14  
FILENAME: 20.2\_14.dgn  
PEN TABLE:  
Sheet of

**WALKWAY PLANKS**  
 PROVIDE 12-3" X 11 1/2" X 12'-1" LONG PLANKS AND 4-3" X 11 1/2" X 11'-8" LONG PLANKS. 2-3" X 11 1/2" X 11'-8" PLANKS WERE CUT TO 11'-7 1/2" TO FIT NORTH END OF GATE (WILL BE MARKED FOR INSTALLATION PURPOSES). PLANKS SHALL BE 12 GAUGE STRUCTURAL STEEL, CATALOG NO. 53012 AS MANUFACTURED BY GRIP-STRUT METALS OR EQUAL. PLANKS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. PROVIDE 4 FASTENERS PER PANEL AS RECOMMENDED BY THE PLANK MANUFACTURER.



**WALKWAY SUPPORT BRACKET**  
 SCALE: 1 1/2"-1'-0"



**NOTES**

- FOR GENERAL NOTES SEE DWG. 0/4.
- FOR STRUCTURAL GENERAL NOTES SEE DRAWING NO. 20.1/1.
- ALL MATERIAL ON THIS DRAWING SHALL BE ALUMINUM ALLOY 6061-T6 UNLESS OTHERWISE NOTED OR SPECIFIED. ALL ALUMINUM SHAPES AND PLATES SHALL CONFORM TO ASTM DESIGNATION B 221 AND B 209, RESPECTIVELY.
- ALUMINUM CASTINGS SHALL CONFORM TO ASTM B 26, ALLOY 295.0-T62.
- ALL ALUMINUM RIVETS SHALL CONFORM TO ASTM B 316 ALLOY 2117-T4.
- ALL GROOVE WELDS SHALL BE FULL PENETRATION WELDS UNLESS OTHERWISE NOTED.
- GOVERNMENT FURNISHED SPECIAL SHAPES FOR TRETTLE POSTS INCLUDES MATERIAL ONLY. ALL FABRICATION SHALL BE ACCOMPLISHED BY THE CONTRACTOR.
- CORROSION RESISTING FILLER METAL SHALL BE USED FOR ALL WELDING TO CORROSION RESISTING STEEL.

Symbol	Revisions Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

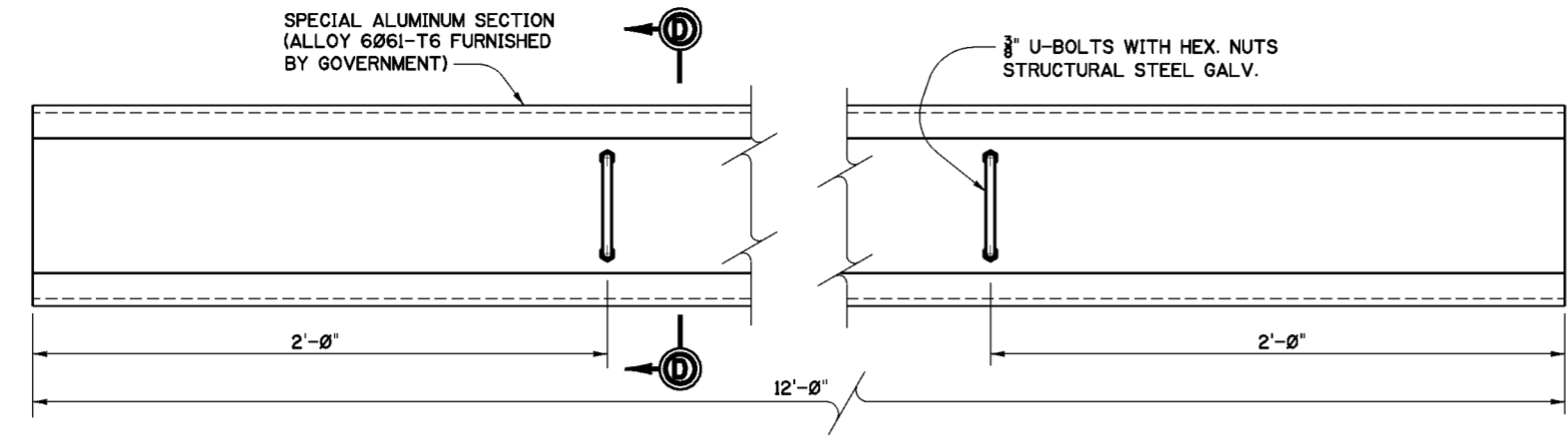
U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 HUNTINGTON, WEST VIRGINIA

SCIO TO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS L.P.P.  
 PHASE III B

**GREENLAWN AVE. GATE CLOSURE  
 TRETTLE ASSEMBLY**

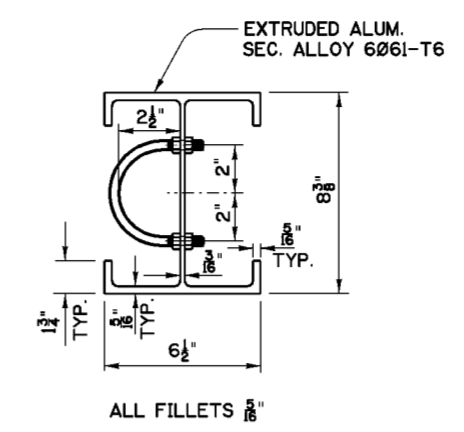
Designed by: M.B.S. B.W.D.  
 Drawn by: B.W.D. N.B.M.  
 Checked by: M.B.S.  
 Reviewed by: AS SHOWN  
 Date: MARCH 2000  
 Drawing Code: O16-PWC-13

FILENAME: a0202.15.dgn  
 PEN TABLE:  
 20.2/15  
 Sheet of



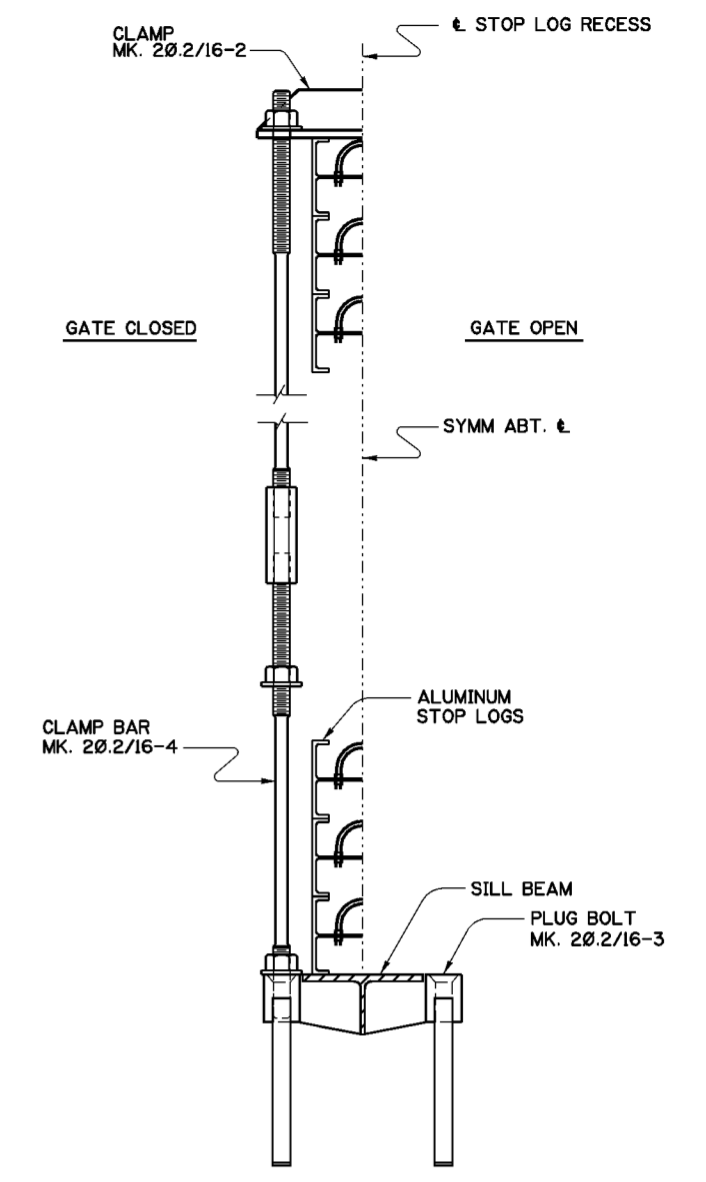
**ALUMINUM STOP LOGS**

MAKE 182  
SCALE: 3" = 1'-0"



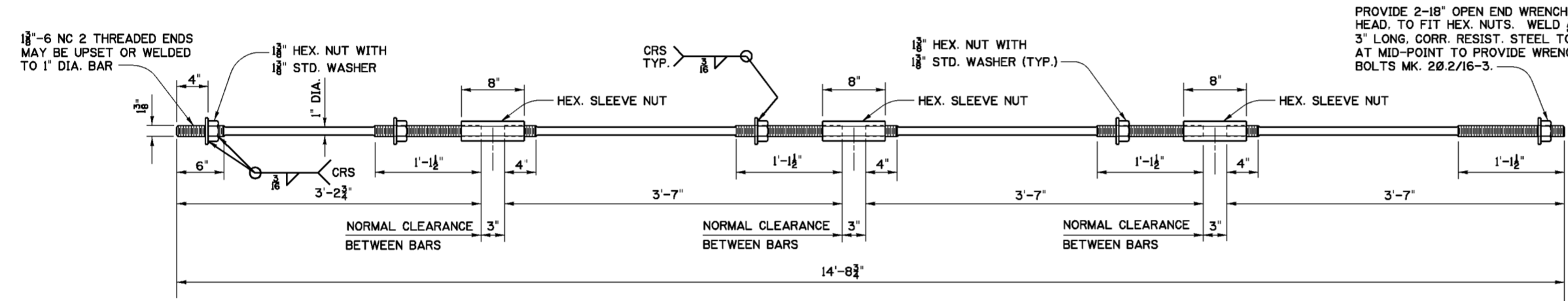
**SECTION D-D**

SCALE: 3" = 1'-0"



**STOP LOG ASSEMBLY**

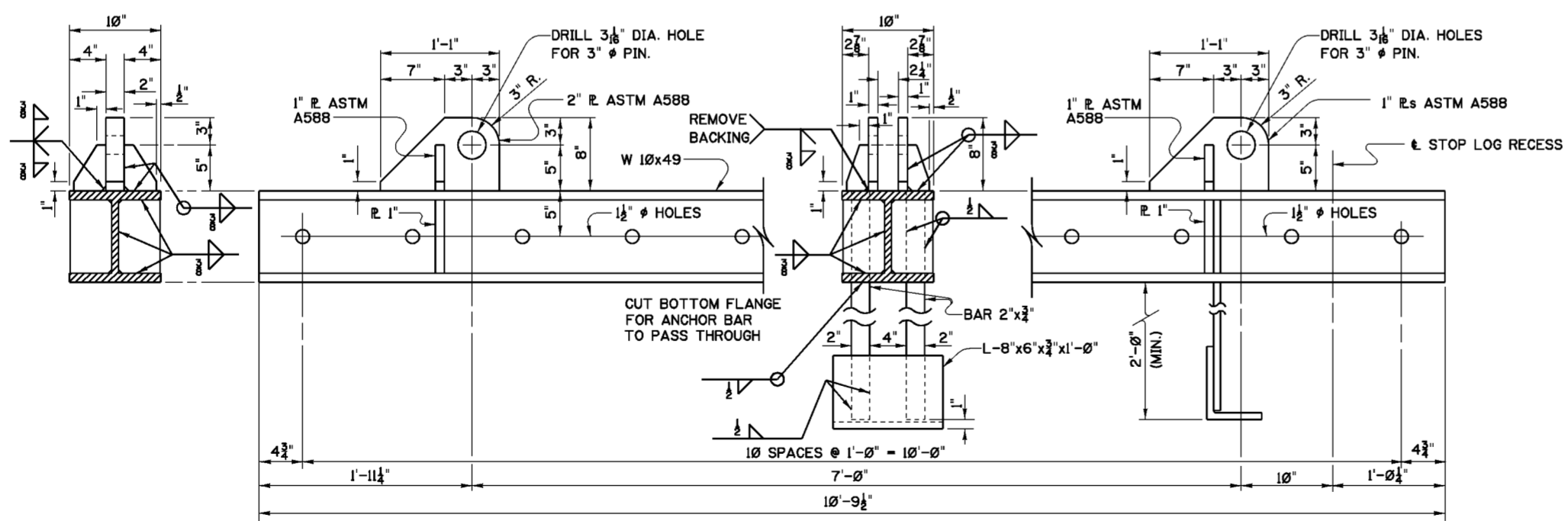
SCALE: 1 1/2" = 1'-0"



**CLAMP BAR ASSEMBLY**

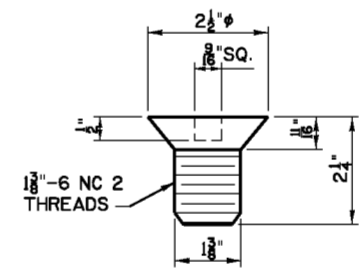
ASTM A276 300 SERIES  
MK 20.2/16-4 MAKE 28  
SCALE: 1 1/2" = 1'-0"

NOTE:  
PROVIDE 12 ADDITIONAL SPARE HEX. NUTS AND WASHERS FOR CLAMP BAR ASSEMBLY



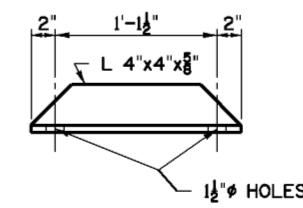
**GRILLAGE BEAM**

MARK 20.2/16-1 MAKE 6  
12" 9" 6" 3" 0"  
SCALE: 1 1/2" = 1'-0"



**PLUG BOLT**

CORROSION RESISTING STEEL  
MK.20.2/16-3 MAKE 28  
SCALE: 6" = 1'-0"



**CLAMP**

CORROSION RESISTING STEEL  
MK.20.2/16-2 MAKE 14  
SCALE: 1 1/2" = 1'-0"

**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. ALL MATERIALS SHALL BE STRUCTURAL STEEL ASTM A36 UNLESS OTHERWISE NOTED.
4. CORROSION RESISTING FILLER METAL SHALL BE USED FOR ALL WELDING TO CORROSION RESISTING STEEL.

Revisions			
Symbol	Descriptions	Date	Approved

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

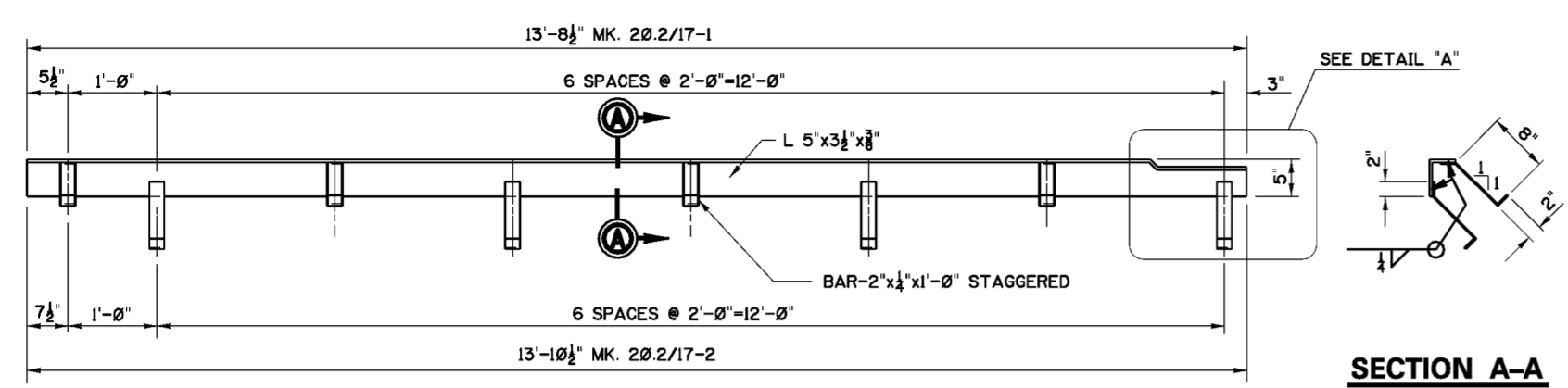
SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

**GREENLAWN AVE. GATE CLOSURE  
GRILLAGE BEAM AND  
MISCELLANEOUS METALS**

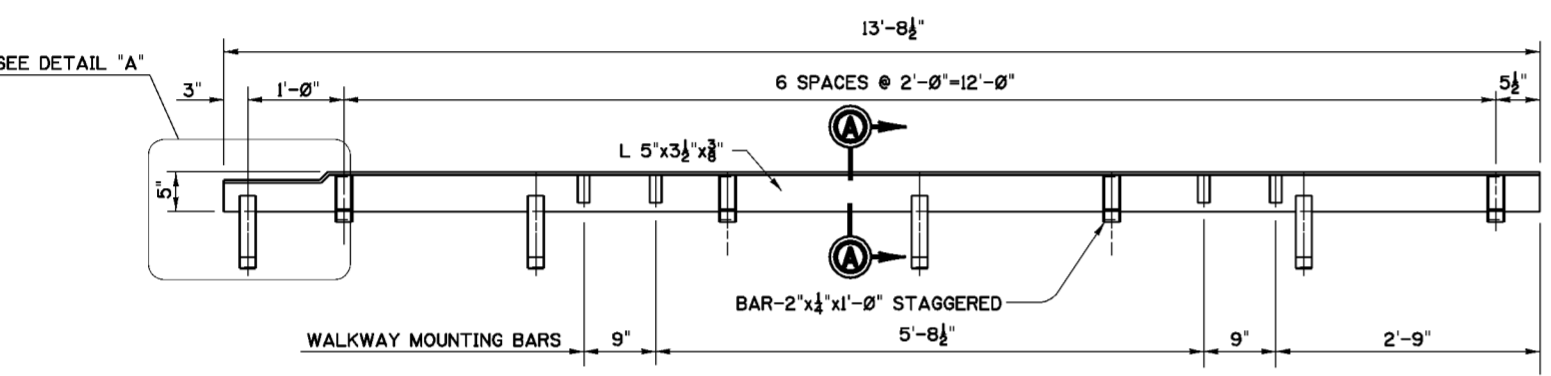
Designed by: M.B.S. B.W.D.  
Drawn by: B.W.D.  
Checked by: M.B.S.  
Reviewed by: AS SHOWN  
Date: MARCH 2000  
Approved by: O16-PWC-13

Scale: AS SHOWN  
Date: MARCH 2000  
Drawing Code: O16-PWC-13

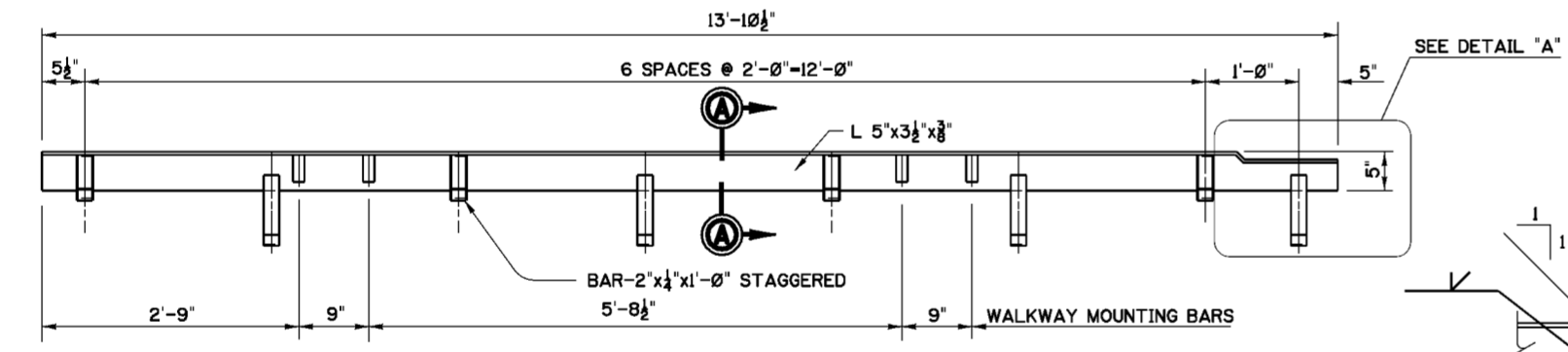
Sheet reference number: 20.2/16  
FILENAME: 20.2\_16.dgn  
PEN TABLE:



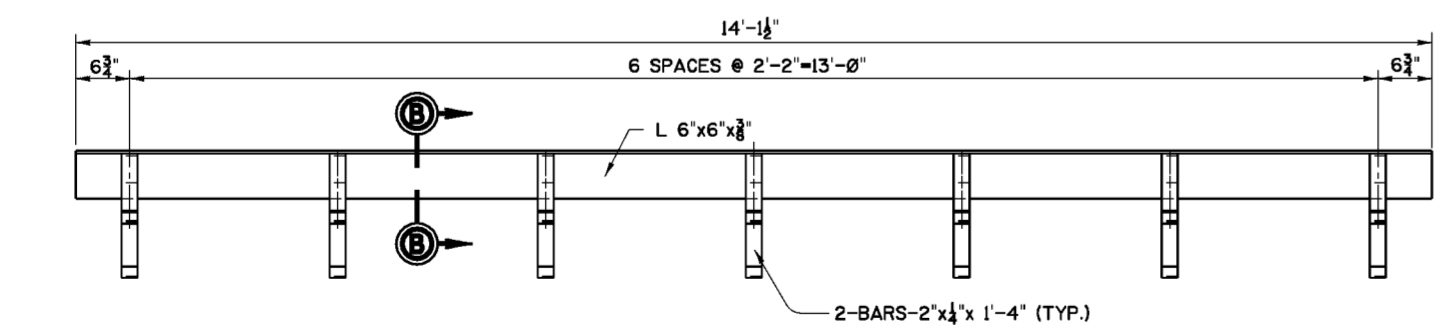
**STOP LOG RECESS ANGLE**  
 MK. 20.2/17-1 MAKE 1 AS SHOWN  
 MK. 20.2/17-2 MAKE 1 OPP. HAND  
 SCALE: 1" = 1'-0"



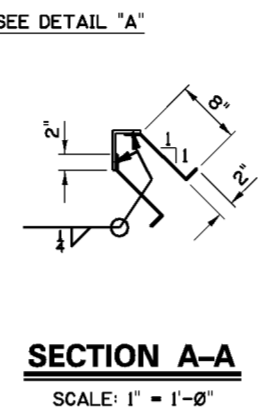
**STOP LOG RECESS ANGLE**  
 MK. 20.2/17-3 MAKE 1  
 SCALE: 1" = 1'-0"



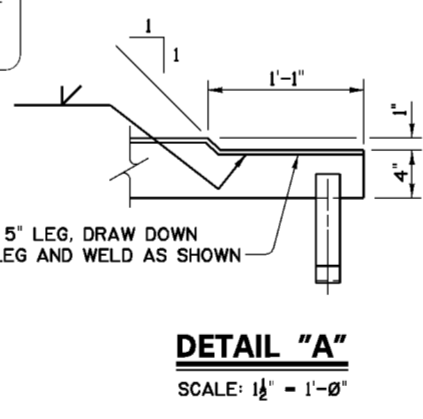
**STOP LOG RECESS ANGLE**  
 MK. 20.2/17-4 MAKE 1  
 SCALE: 1" = 1'-0"



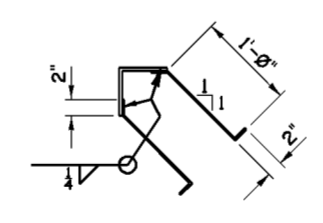
**CORNER PROTECTION ANGLE**  
 MK. 20.2/17-5 MAKE 1  
 SCALE: 1" = 1'-0"



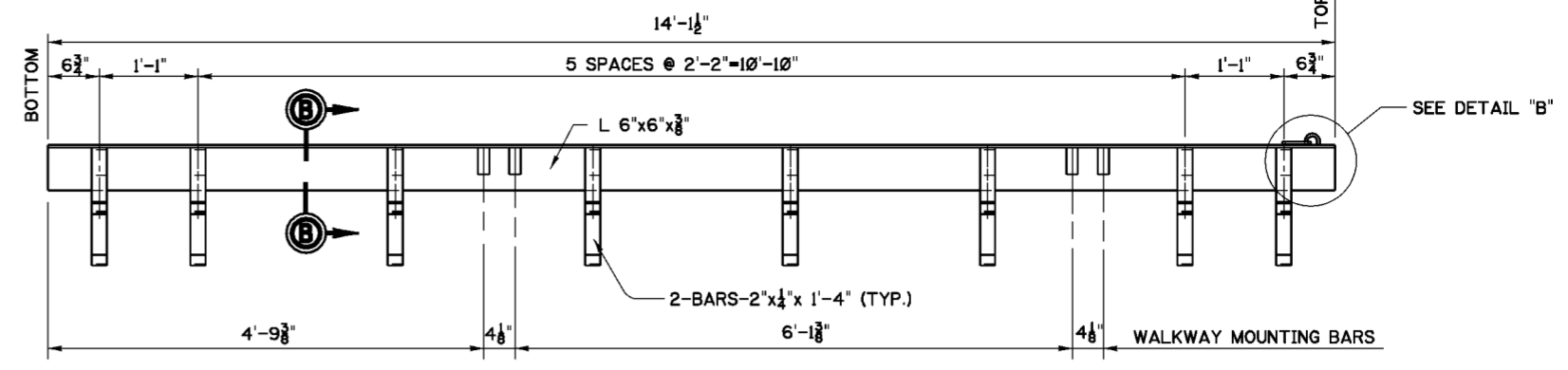
**SECTION A-A**  
 SCALE: 1" = 1'-0"



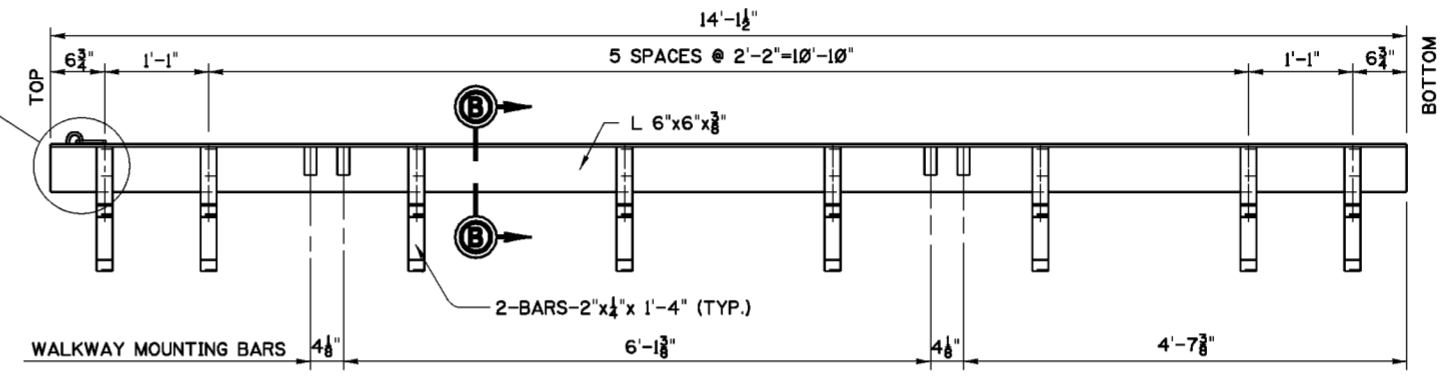
**DETAIL "A"**  
 SCALE: 1/2" = 1'-0"



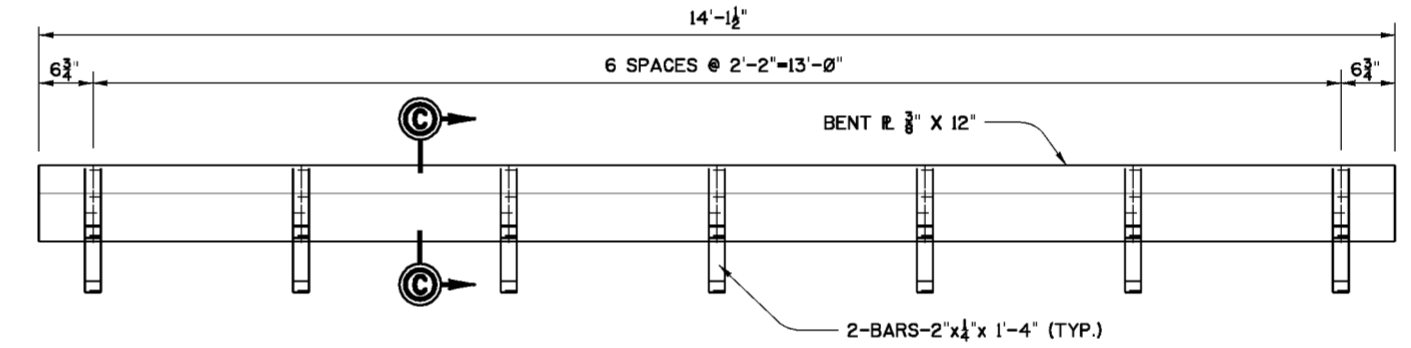
**SECTION B-B**  
 SCALE: 1" = 1'-0"



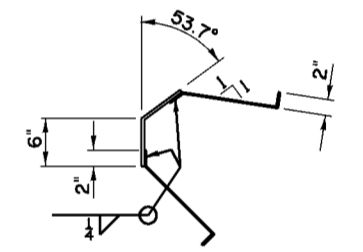
**CORNER PROTECTION ANGLE**  
 MK. 20.2/17-6 MAKE 1  
 SCALE: 1" = 1'-0"



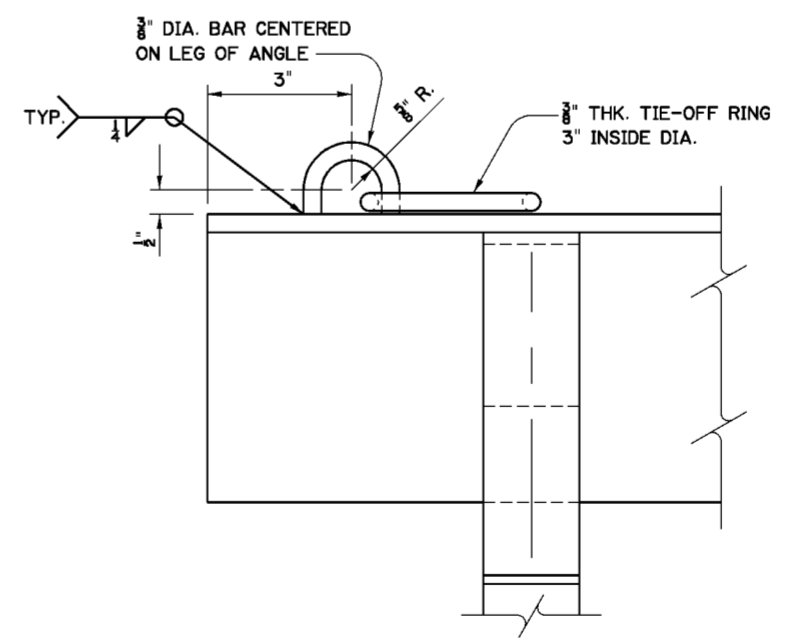
**CORNER PROTECTION ANGLE**  
 MK. 20.2/17-7 MAKE 1  
 SCALE: 1" = 1'-0"



**CORNER PROTECTION PLATE**  
 MK. 20.2/17-8 MAKE 1  
 SCALE: 1" = 1'-0"



**SECTION C-C**  
 SCALE: 1" = 1'-0"



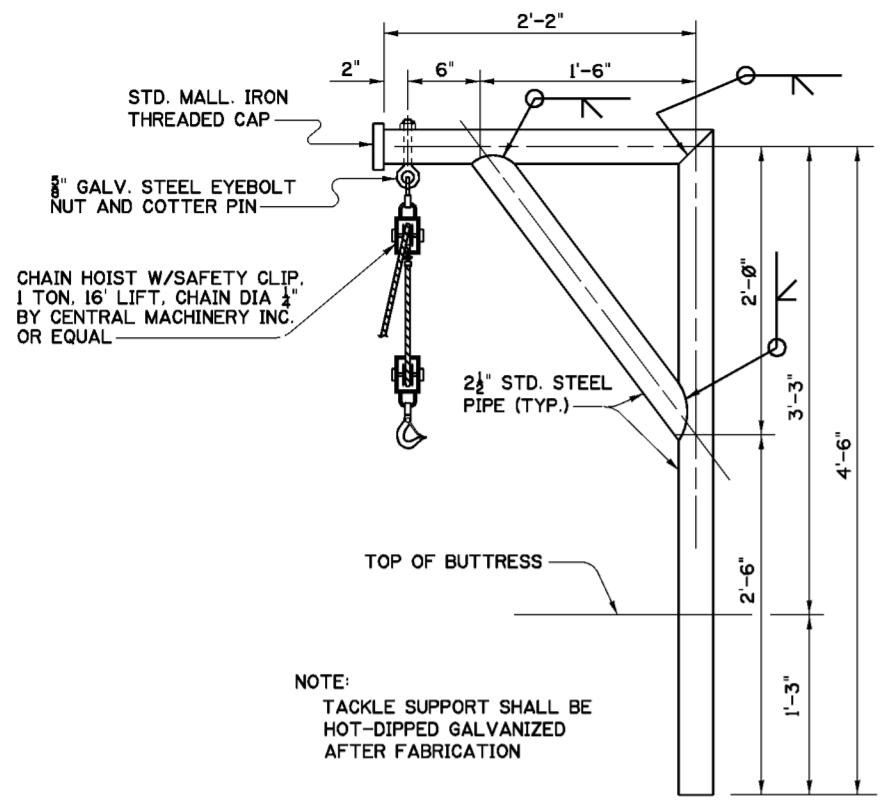
**DETAIL "B"**  
 SCALE: 6" = 1'-0"

- NOTES**
1. FOR GENERAL NOTES SEE DWG. 0/4.
  2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
  3. RECESS AND CORNER PROTECTION ANGLES SHALL BE STRUCTURAL STEEL, ASTM A36
  4. FOR DETAILS OF WALKWAY MOUNTING BARS SEE DWG. 20.2/18.

Revisions			
Symbol	Descriptions	Date	Approved

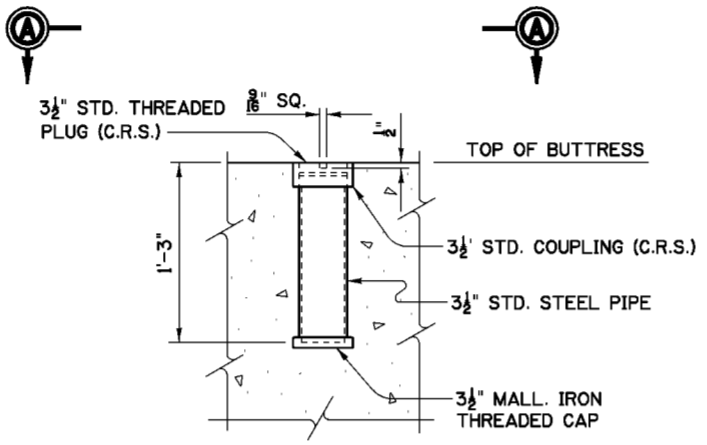
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S. B.W.D.		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	
Drawn by: B.W.D.		<b>GREENLAWN AVE. GATE CLOSURE                  RECESS ANGLES AND                  CORNER PROTECTION</b>	
Checked by: M.B.S.	Scale: AS SHOWN	Sheet reference number: 20.2/17	FILENAME: PEN TABLE: 20.2/17.dgn
Reviewed by:	Date: MARCH 2000	Drawing Code: O16-PWC-13	Sheet of

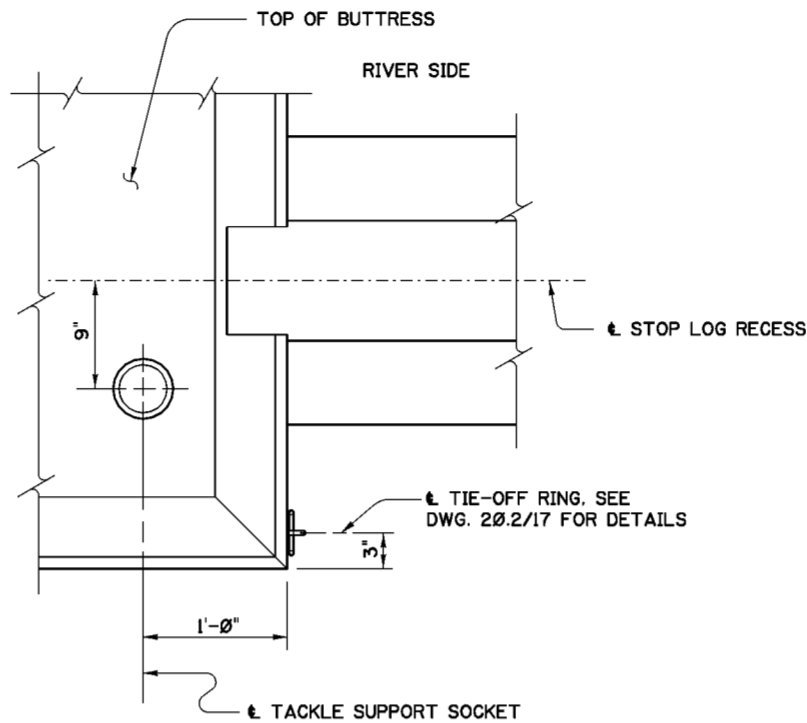


NOTE:  
TACKLE SUPPORT SHALL BE  
HOT-DIPPED GALVANIZED  
AFTER FABRICATION

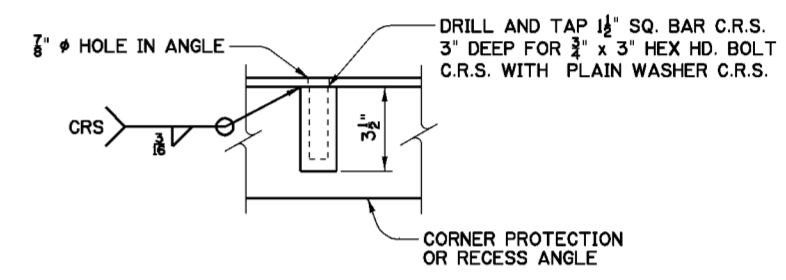
**TACKLE SUPPORT**  
MARK 202/18-1 MAKE 2  
SCALE: 1 1/2"=1'-0"



**TACKLE SUPPORT SOCKET**  
MARK 202/18-2 MAKE 2  
SCALE: 1 1/2"=1'-0"

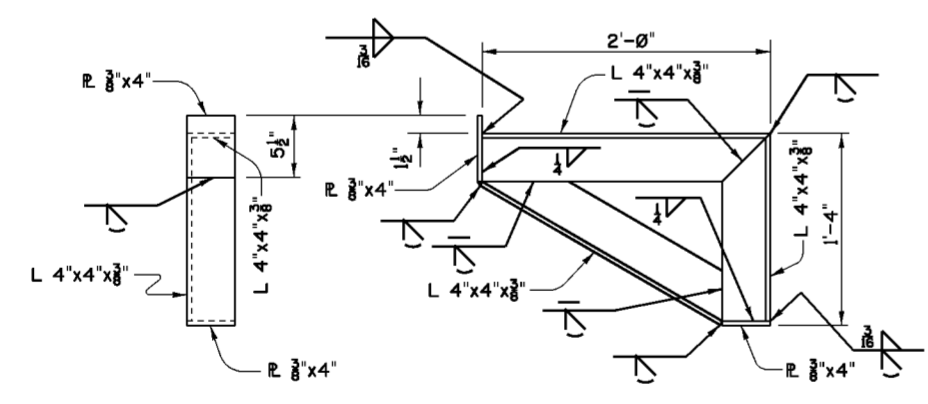


**VIEW A-A**  
NORTH BUTTRESS SHOWN  
SOUTH BUTTRESS OPP. HAND  
SCALE: 1 1/2"=1'-0"

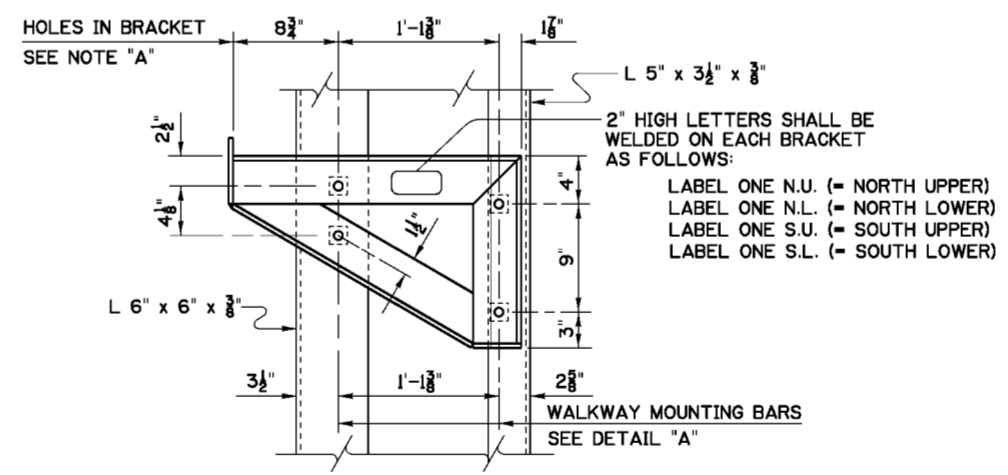


**DETAIL "A"**  
SCALE: 3"=1'-0"

NOTE "A"  
AFTER BUTTRESS CONSTRUCTION, EACH BRACKET  
SHALL BE MATED TO IT'S DESIGNATED LOCATION.  
DRILL 7/8" DIA. HOLES IN FIELD FOR 3/4" C.R.S. BOLTS  
AFTER INSURING PROPER ALIGNMENT. REMOVE  
BRACKETS AND THREAD BOLTS INTO WALKWAY MOUNTING BARS.



**BRACKET DETAILS**



**BRACKET INSTALLATION**

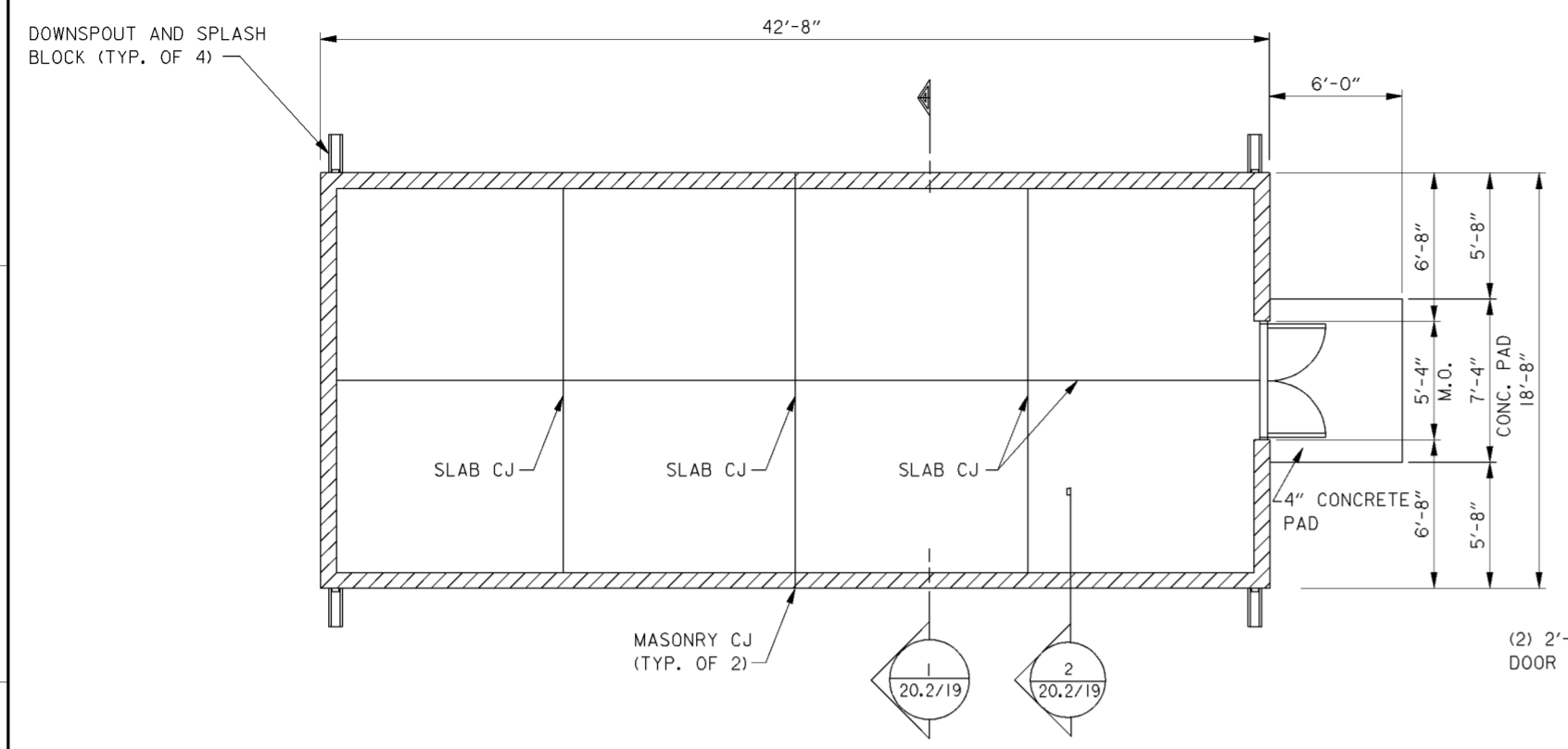
**BUTTRESS MOUNTED  
WALKWAY SUPPORT BRACKET**  
NORTH BUTTRESS AS SHOWN - MAKE 2  
SOUTH BUTTRESS OPP. HAND - MAKE 2  
SCALE: 1 1/2"=1'-0"

**NOTES**

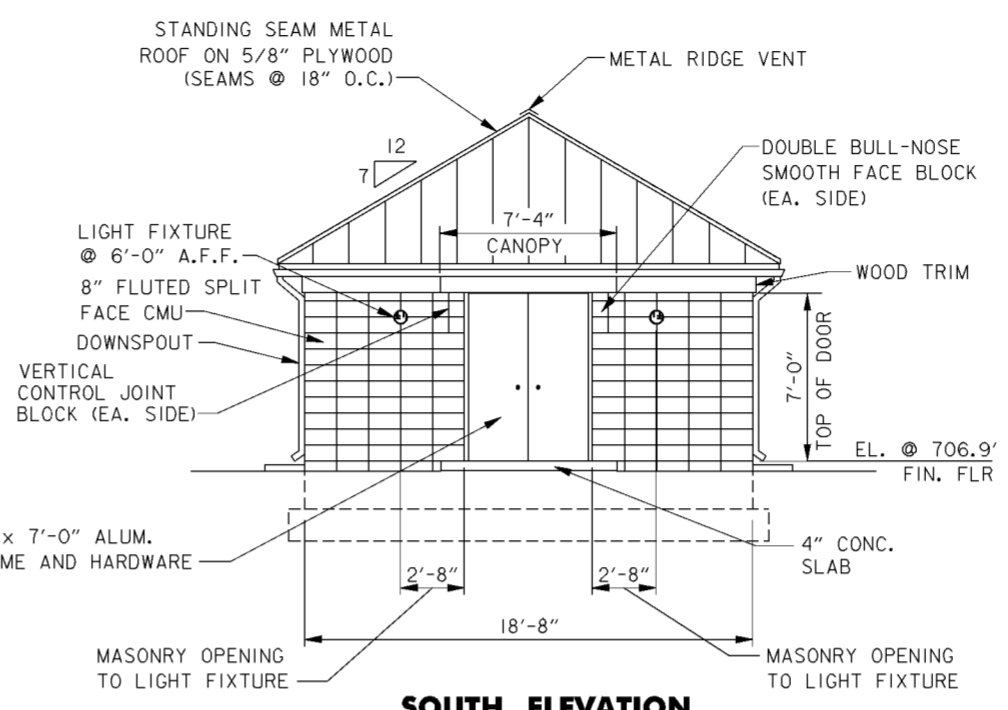
1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. WALKWAY SUPPORT BRACKETS SHALL BE ALUMINUM ALLOY 6061-T6. ALL ALUMINUM SHAPES AND PLATES SHALL CONFORM TO ASTM DESIGNATION B 221 AND B 209, RESPECTIVELY.
4. CORROSION RESISTING FILLER METAL SHALL BE USED FOR ALL WELDING TO CORROSION RESISTING STEEL.

Revisions			
Symbol	Descriptions	Date	Approved

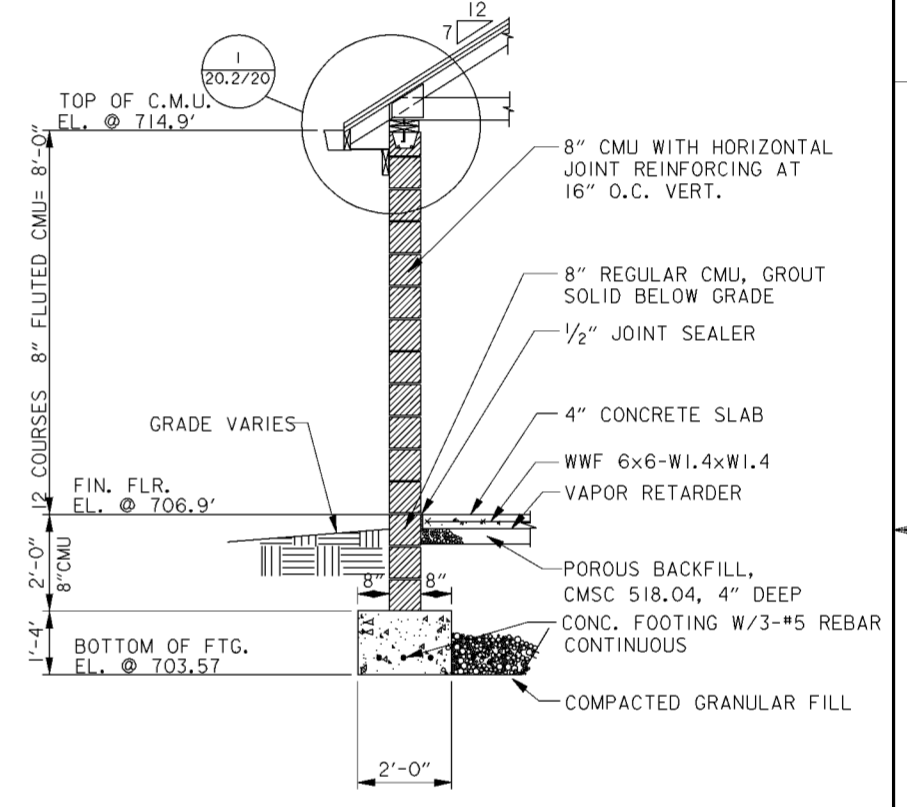
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S. B.W.D.	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB		
Drawn by: B.W.D.		<b>GREENLAWN AVE. GATE CLOSURE MISCELLANEOUS METALS</b>	
Checked by: M.B.S.			
Reviewed by:	Scale: AS SHOWN	Sheet reference number:	FILENAME: PEN TABLE: 202_18.dgn
Approved by:	Date: MARCH 2000	20.2/18	Sheet of
	Drawing Code: O16-PWC-13		



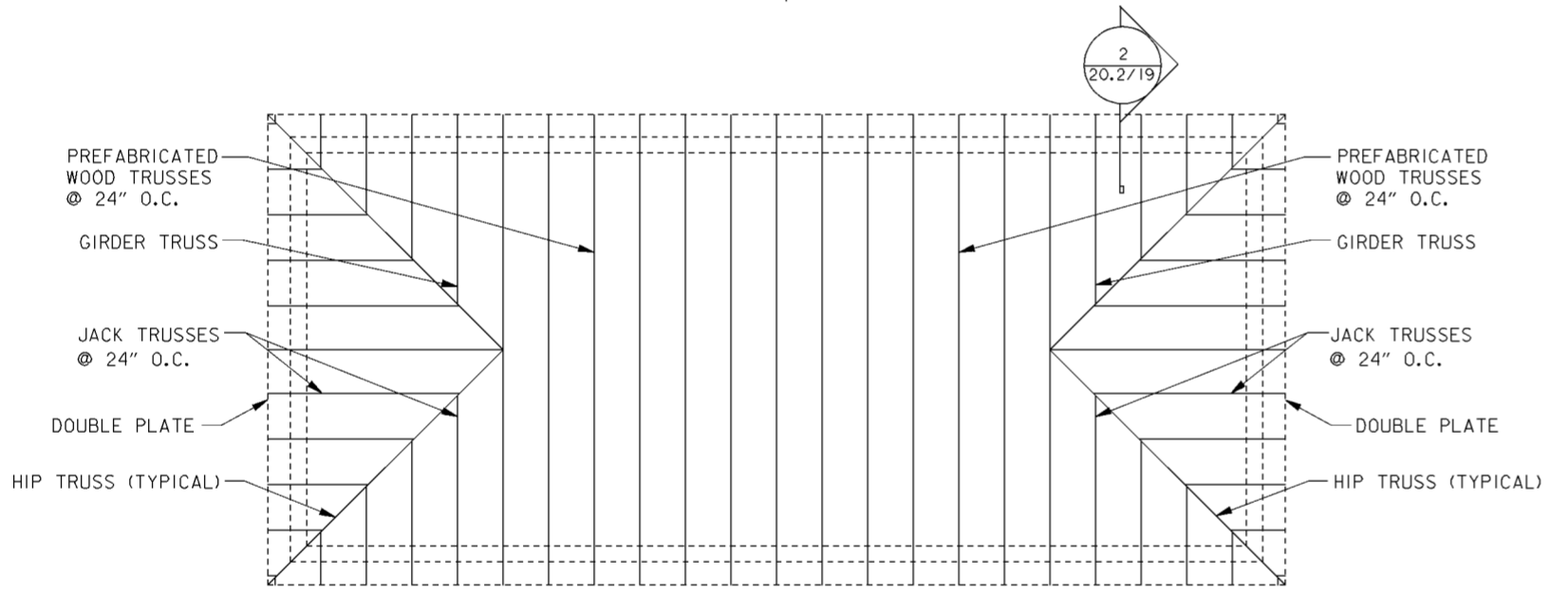
**BUILDING PLAN**  
 SCALE: 1/4" = 1'-0"



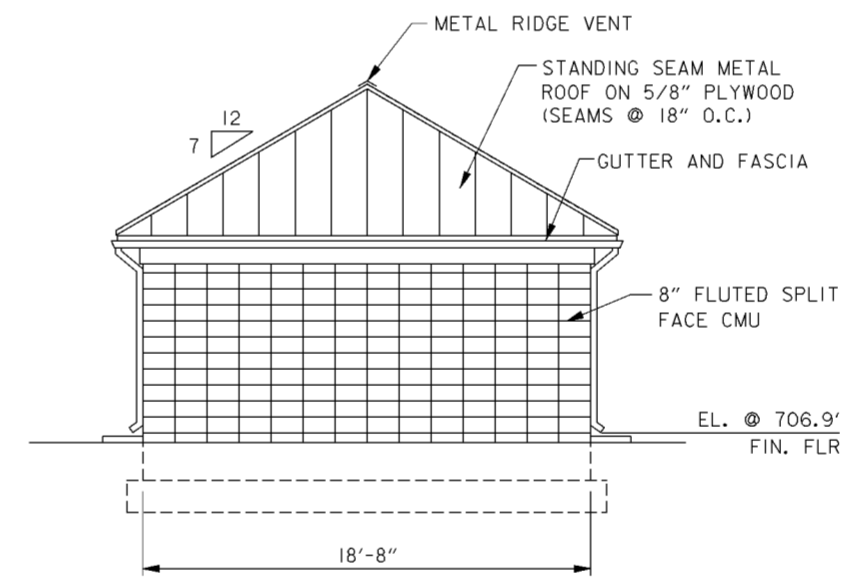
**SOUTH ELEVATION**  
 SCALE: 1/4" = 1'-0"



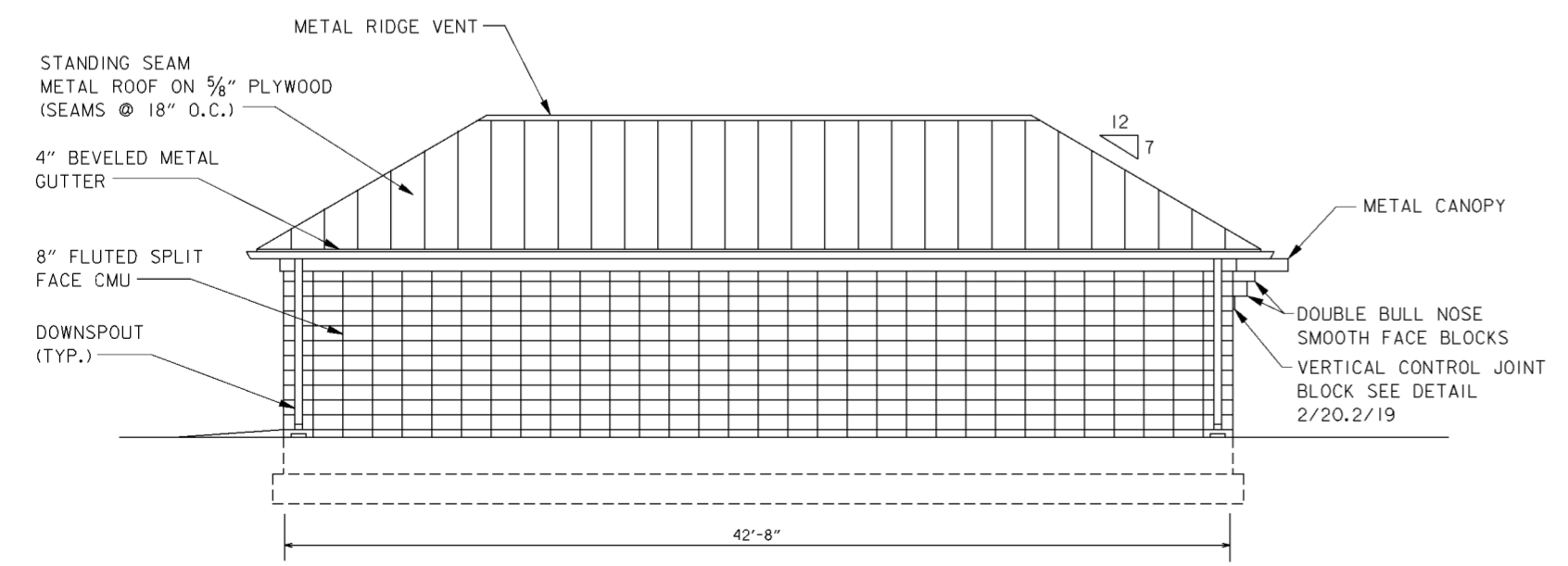
**TYPICAL WALL SECTION**  
 SCALE: 1/2" = 1'-0"



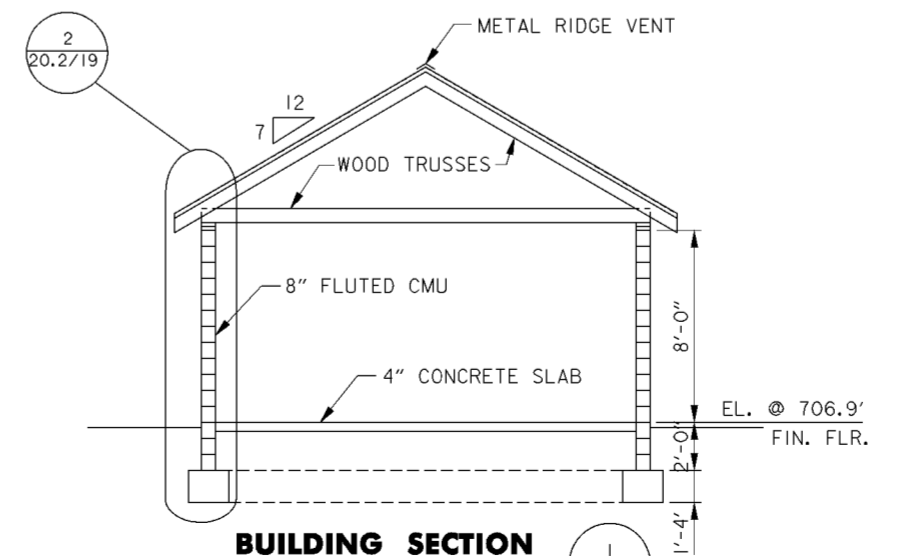
**ROOF FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"



**NORTH ELEVATION**  
 SCALE: 1/4" = 1'-0"



**WEST ELEVATION**  
 SCALE: 1/4" = 1'-0"

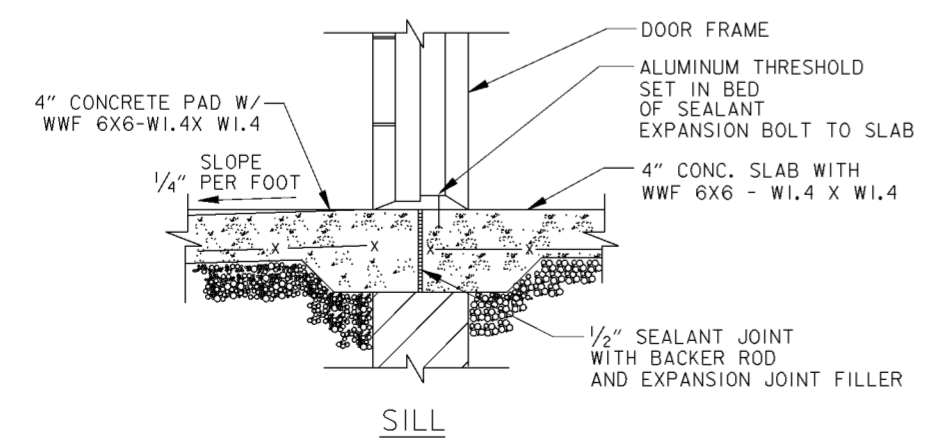
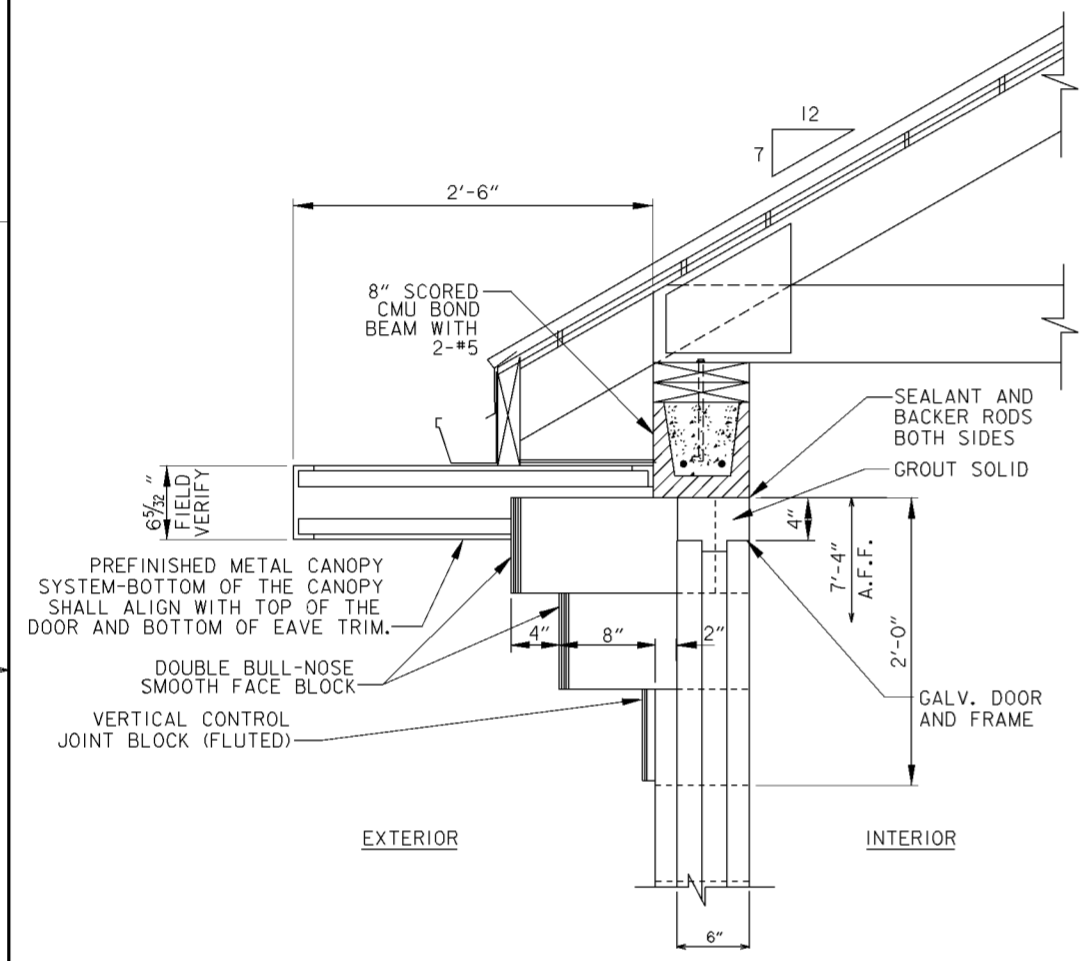
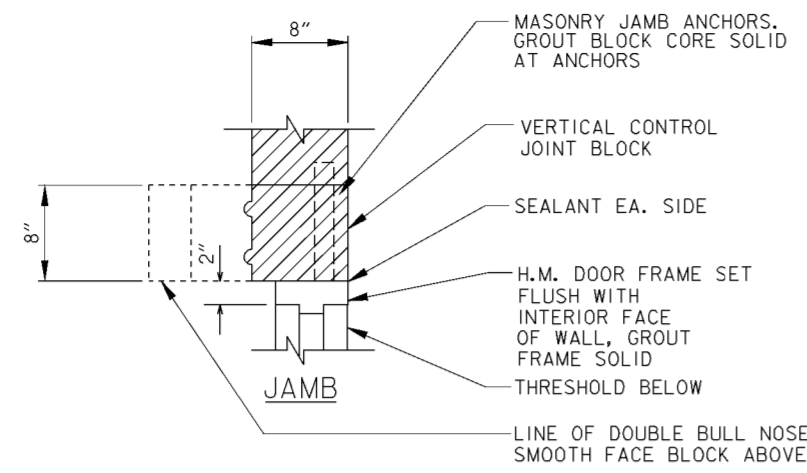


**BUILDING SECTION**  
 SCALE: 1/4" = 1'-0"

Revisions			
Symbol	Descriptions	Date	Approved

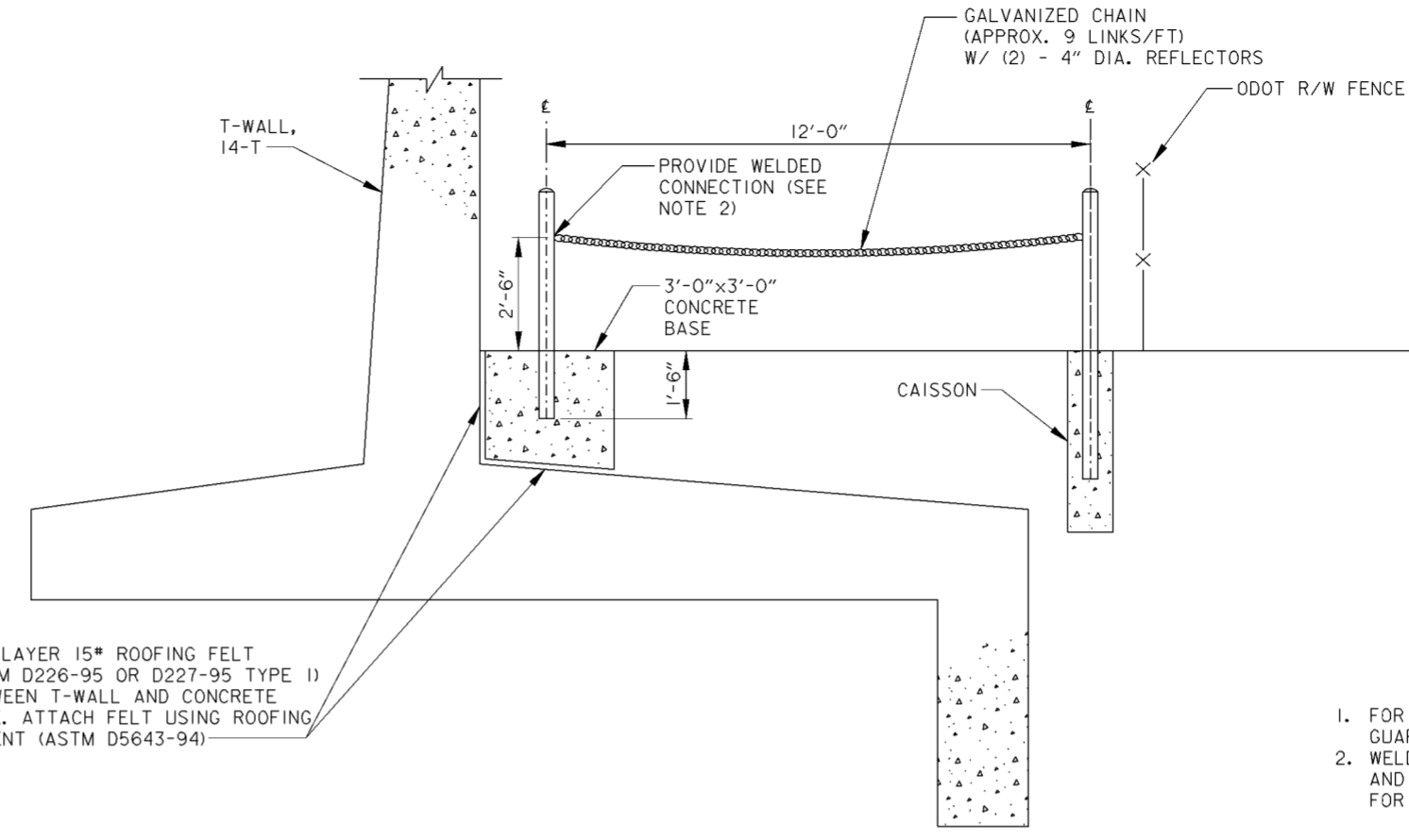
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>STOP LOG</b> <b>STORAGE BUILDING</b>	
Designed by: <b>S.CHAPIN</b>	Drawn by: <b>T.MULLINS</b>	Checked by: <b>R.ROMAN</b>	Reviewed by: <b>AS SHOWN</b>
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>20.2/19</b>
FILENAME: 00b1d101.dgn		PEN TABLE:	
Sheet 1 of 1		20.2/19	



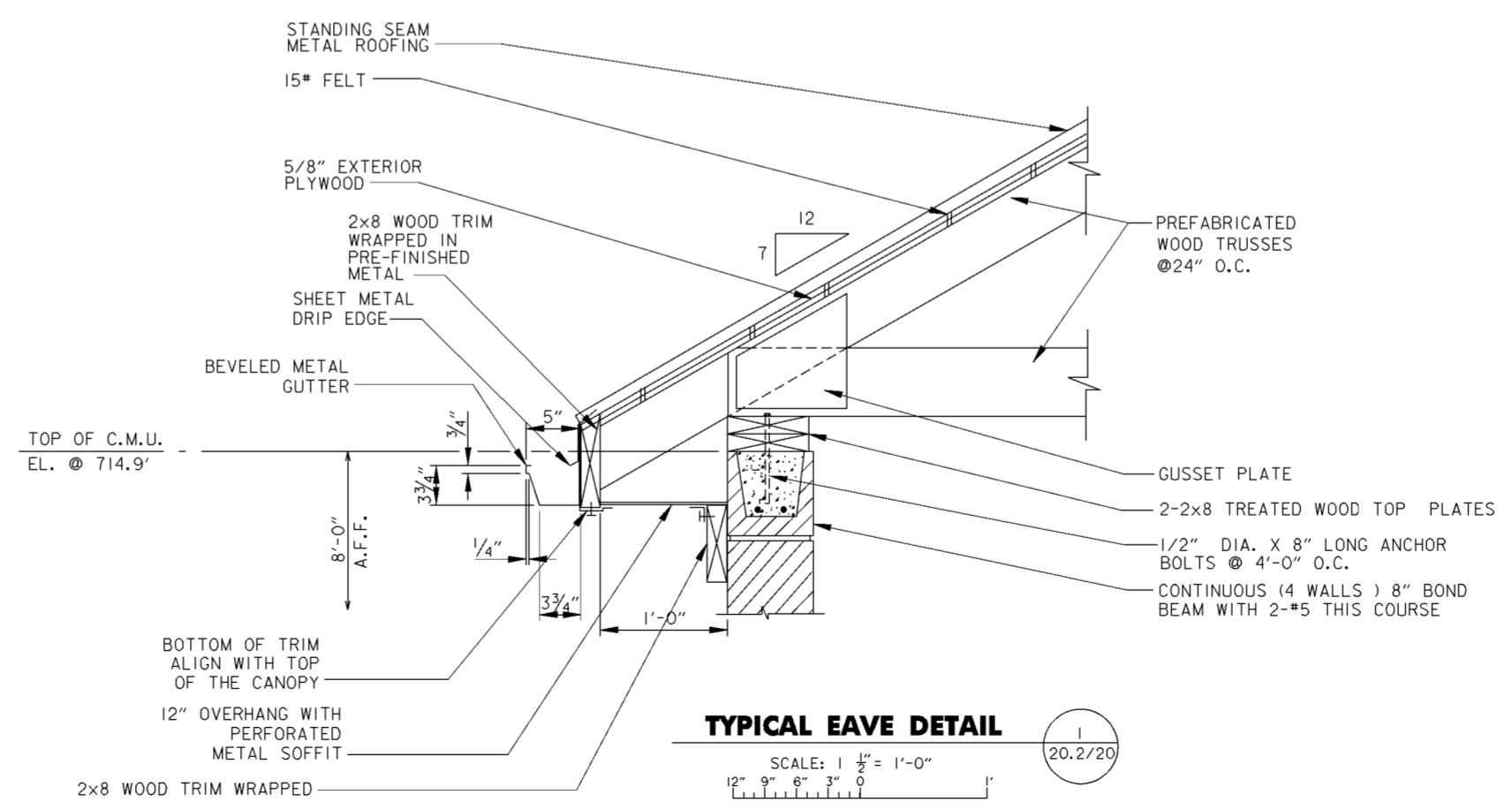
**DOOR DETAILS** 2  
 20.2/20  
 SCALE: 1/2" = 1'-0"  
 12" 9" 6" 3" 0"

ONE LAYER 15# ROOFING FELT (ASTM D226-95 OR D227-95 TYPE I) BETWEEN T-WALL AND CONCRETE BASE. ATTACH FELT USING ROOFING CEMENT (ASTM D5643-94)



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

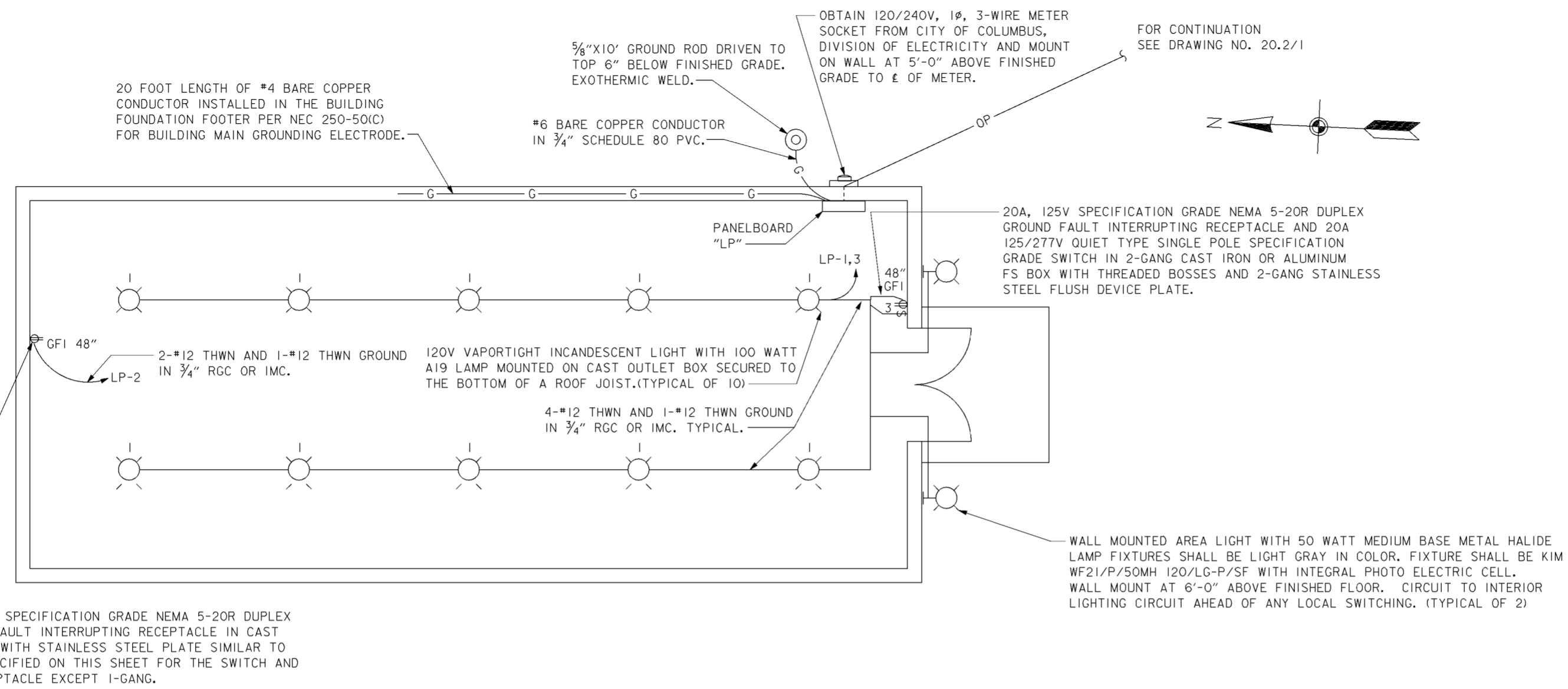
- NOTES**
- FOR POSTS AND CAISSON DETAIL SEE GUARD POST DETAIL ON DRAWING NO.51.1/1.
  - WELD CHAIN TO ONE POST CONNECTION AND PROVIDE LOCKABLE ATTACHMENT FOR OTHER CONNECTION.



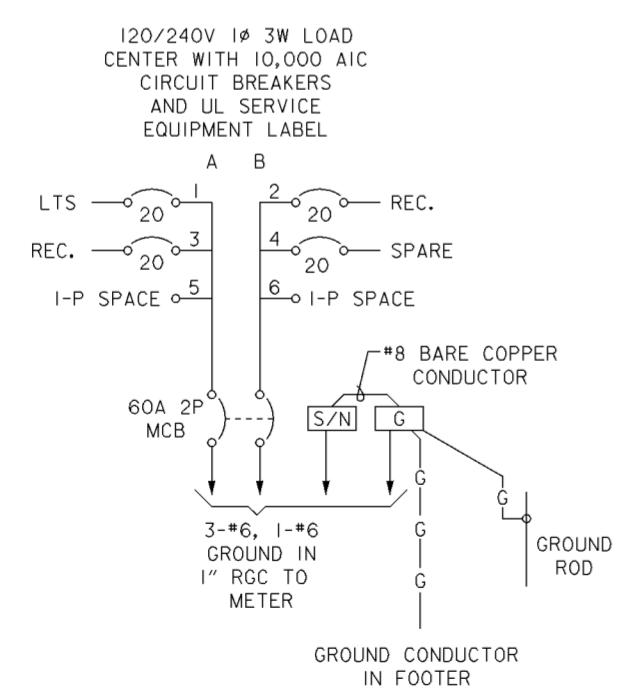
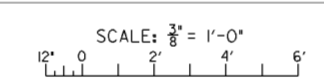
**TYPICAL EAVE DETAIL** 1  
 20.2/20  
 SCALE: 1/2" = 1'-0"  
 12" 9" 6" 3" 0"

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>STOP LOG STORAGE BLDG. DETAILS</b>	
Designed by: <b>S.CHAPIN</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>20.2/20</b>
Drawn by: <b>T.MULLINS</b>		Date: <b>OCTOBER 2000</b>	FILENAME: 00b1d02.dgn
Checked by: <b>R.ROMAN</b>	Reviewed by: <b>AS SHOWN</b>	Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 1



**BUILDING ELECTRICAL PLAN**



**PANELBOARD "LP"**

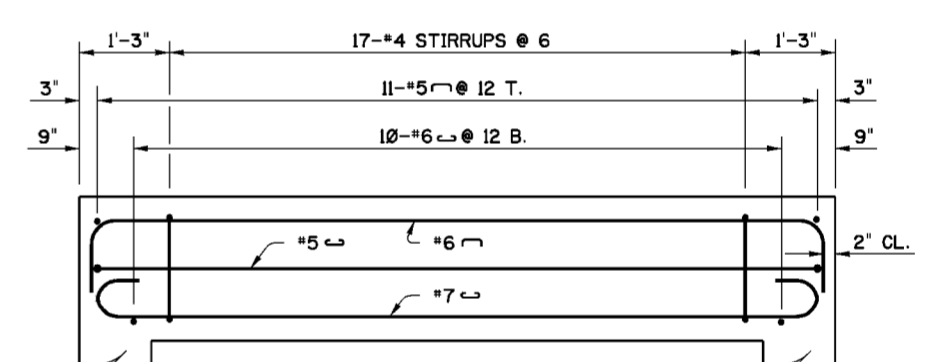
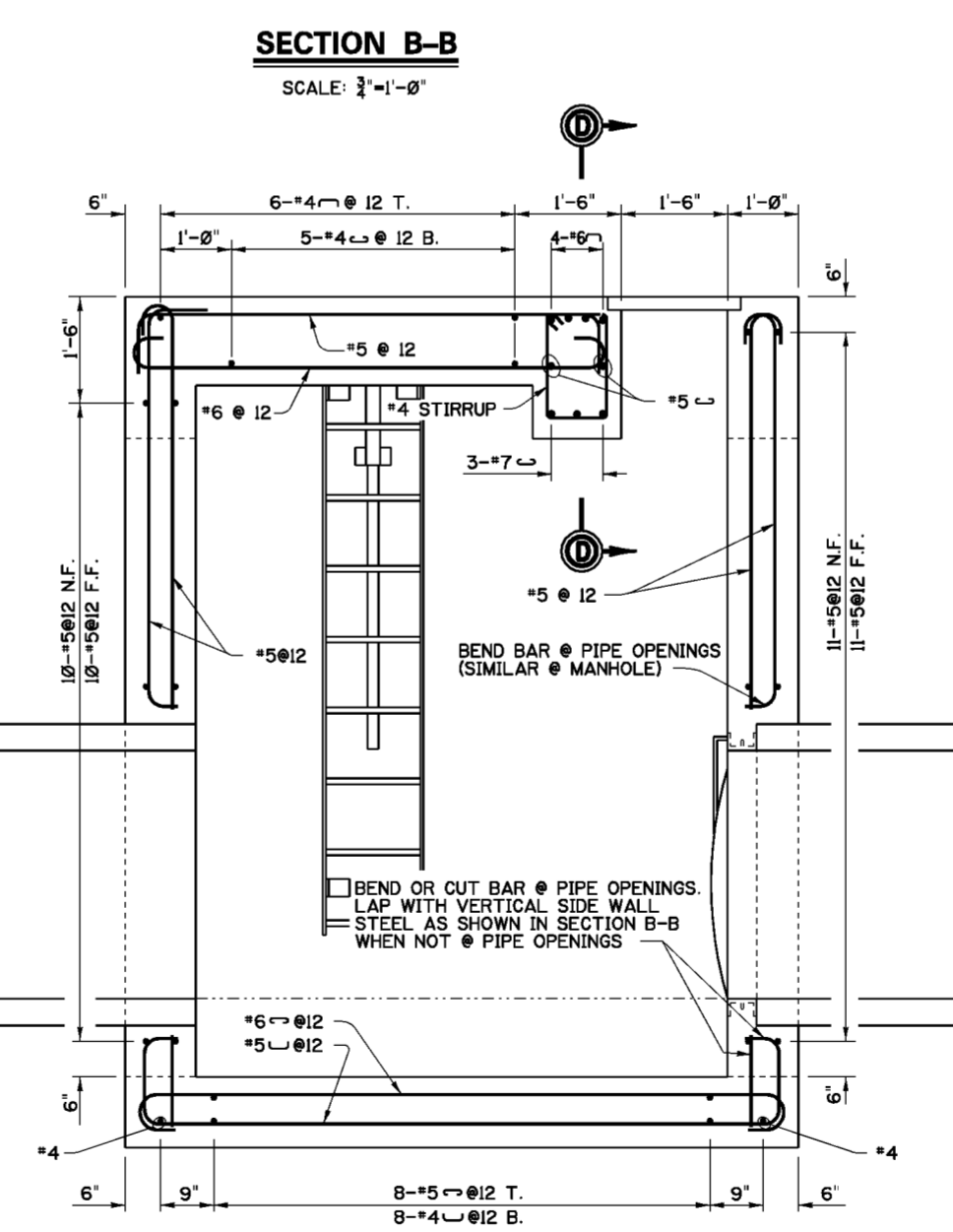
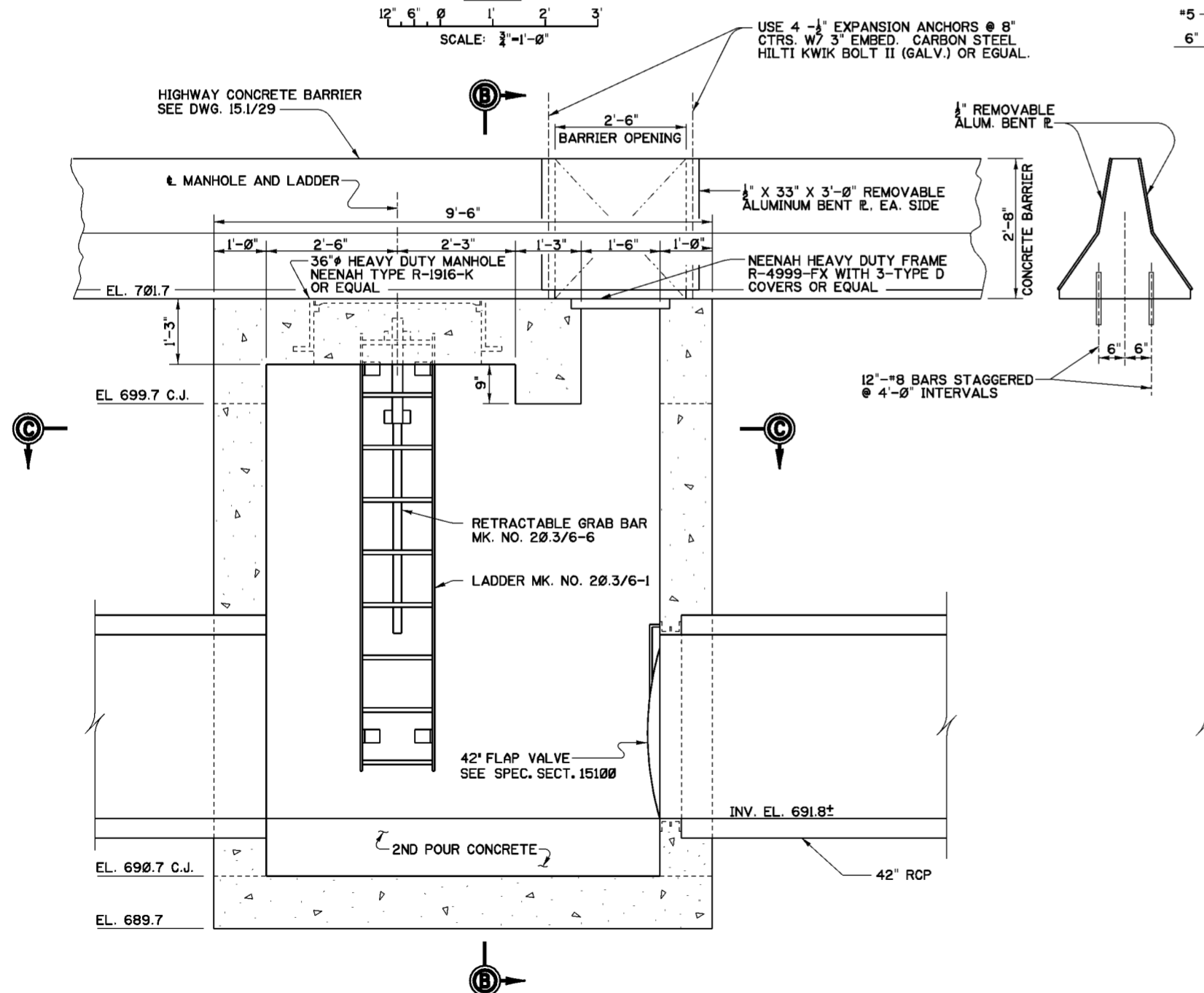
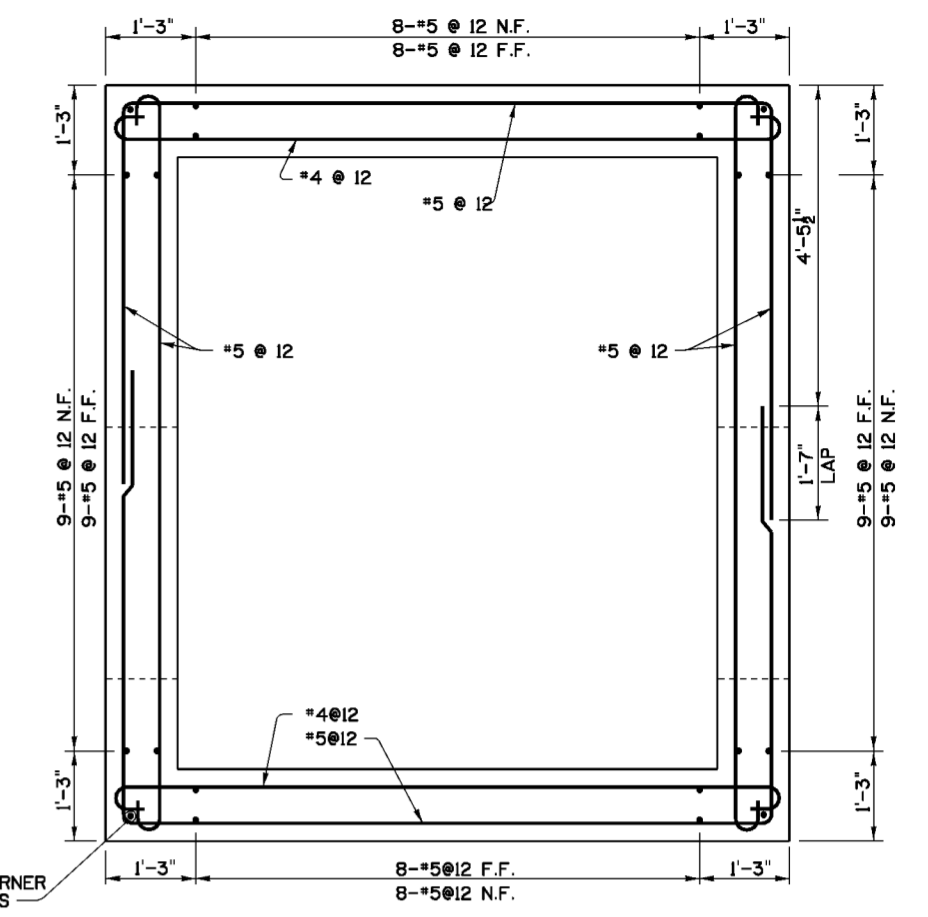
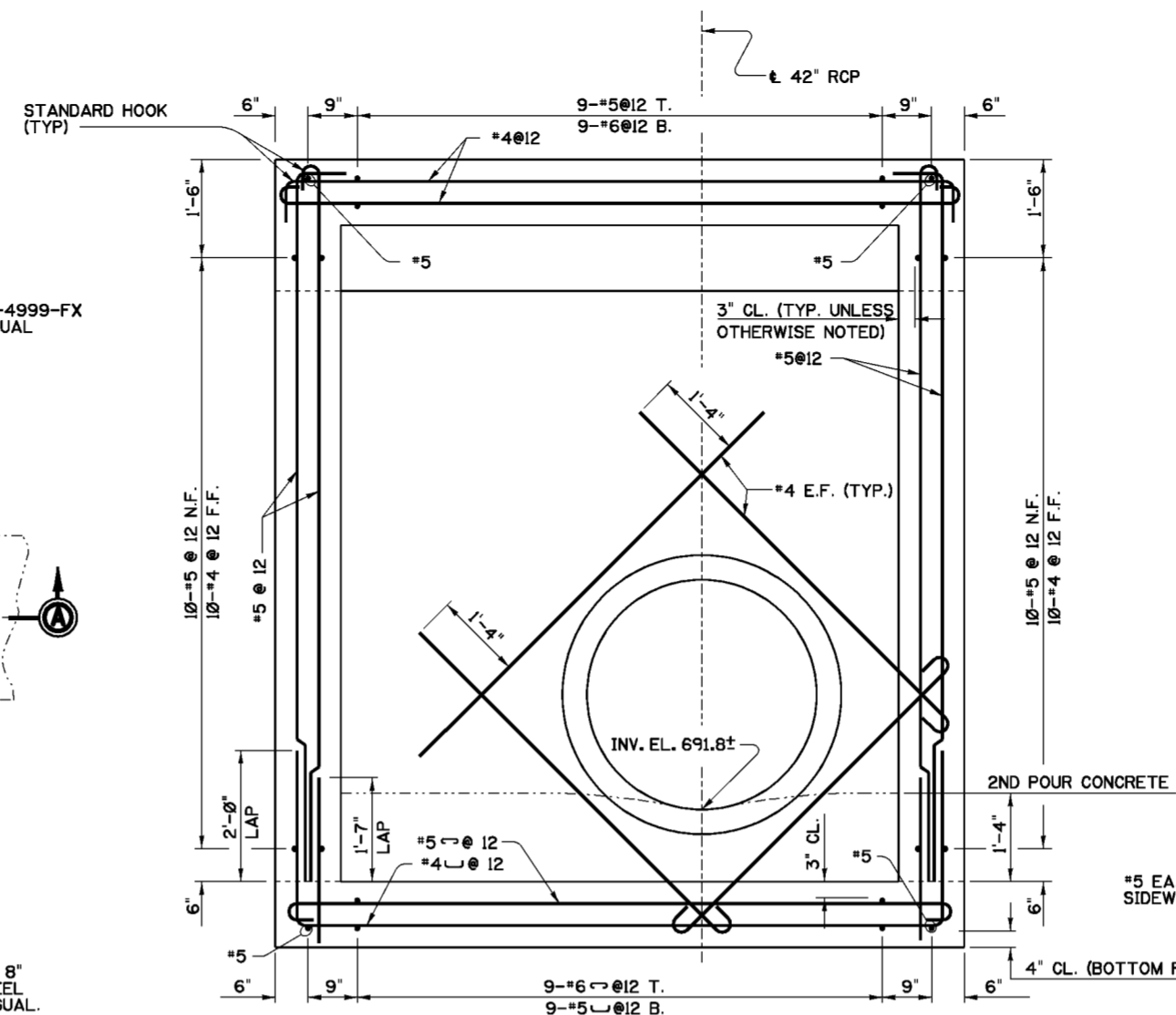
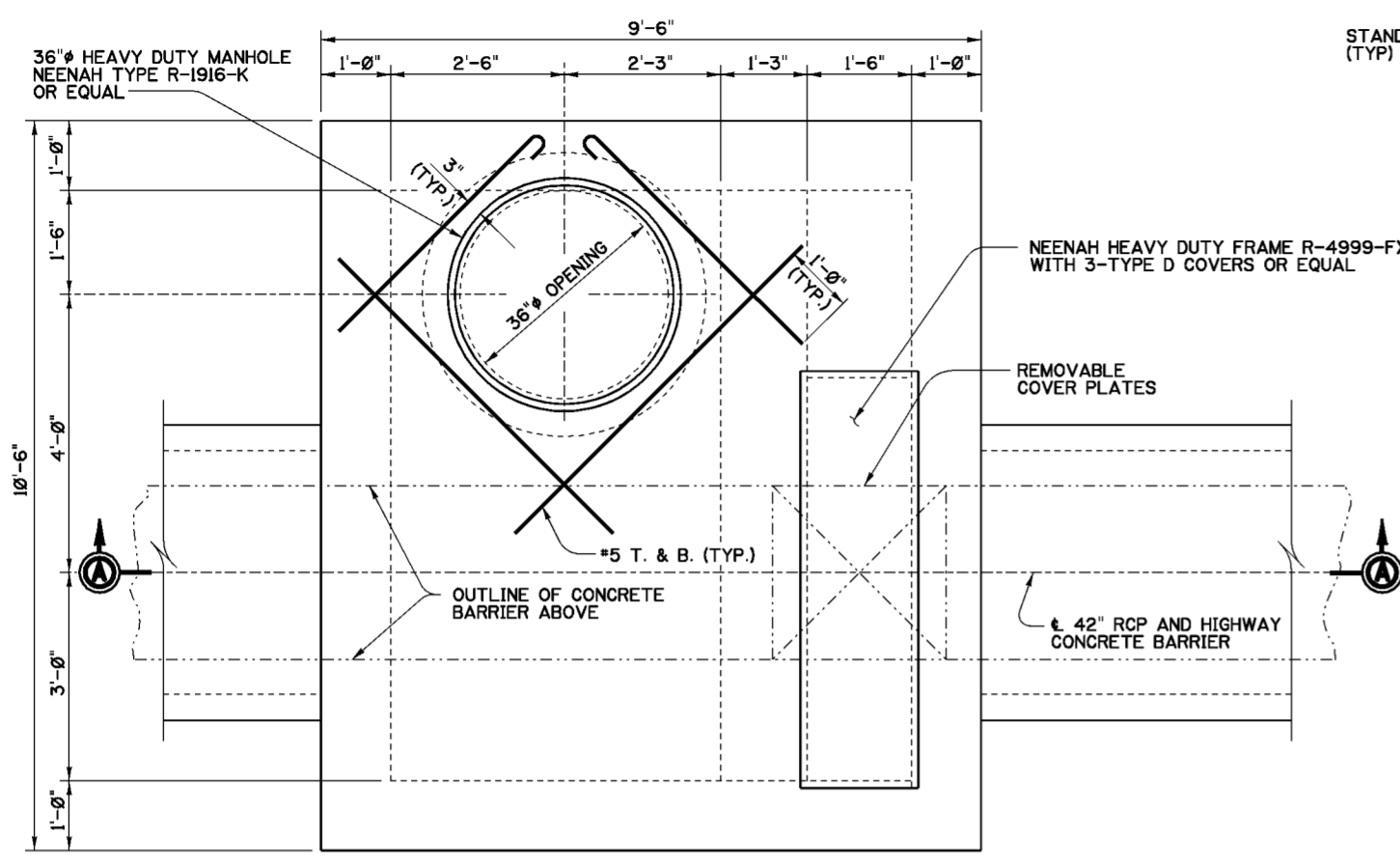
SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S.ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>S.NOWAK</b>		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T.FAHERTY</b>		<b>STOP LOG STORAGE</b> <b>BUILDING - ELECTRICAL</b>	
Checked by: <b>R.OMAN</b>	Reviewed by:	Scale:	Sheet reference number:
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	FILENAME: PEN TABLE: 00b1ep02.dgn
		Date: <b>20.2/21</b>	Sheet 1 of 1



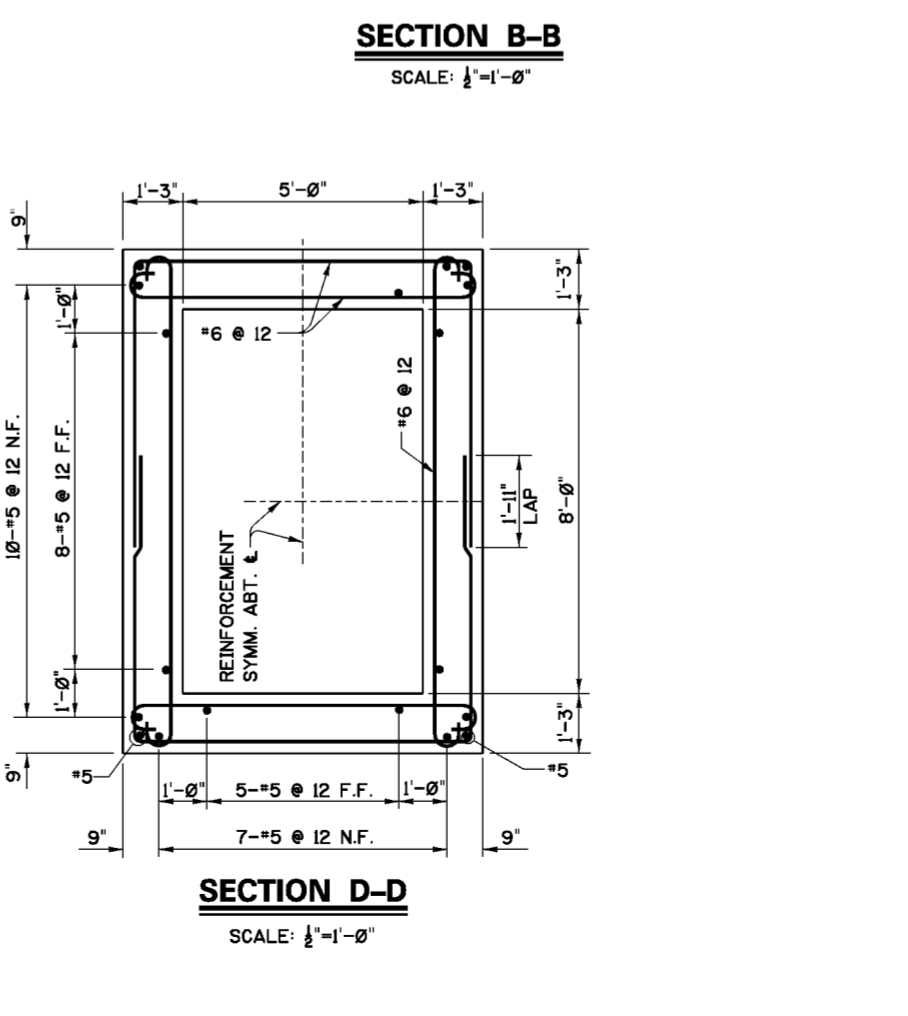
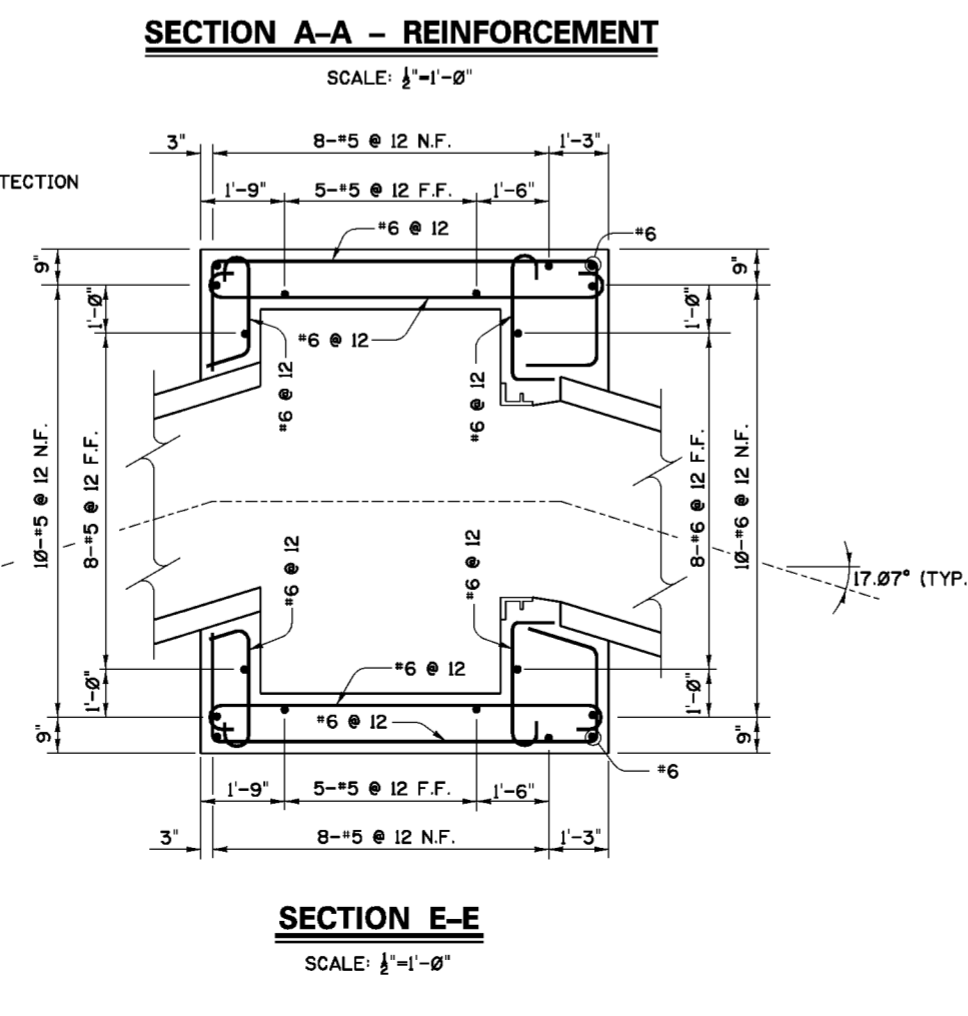
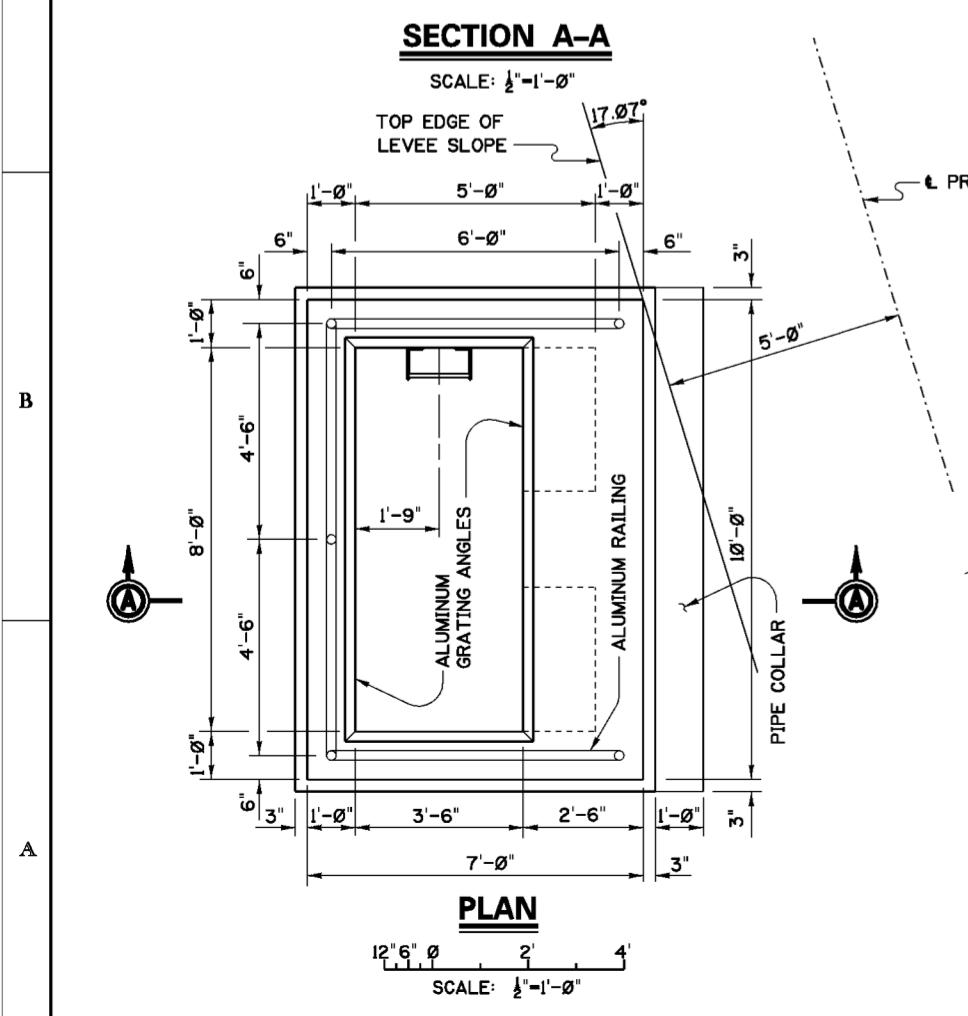
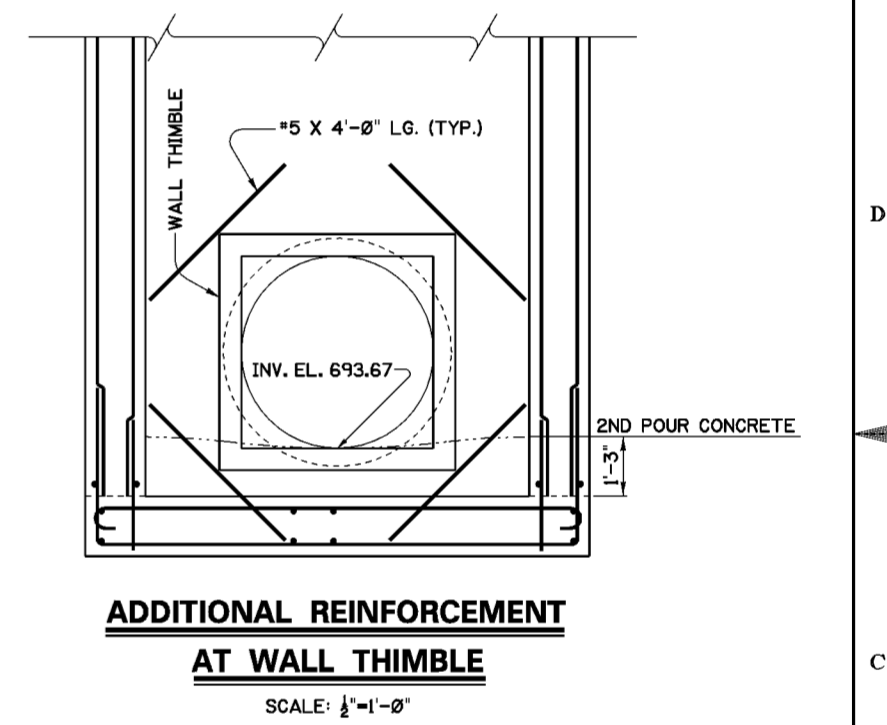
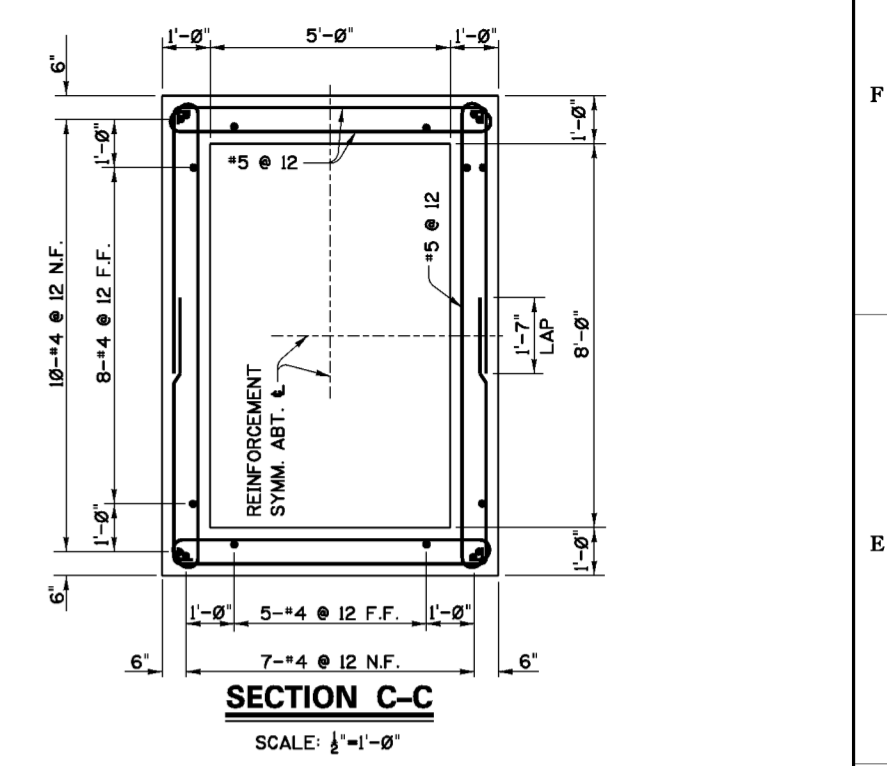
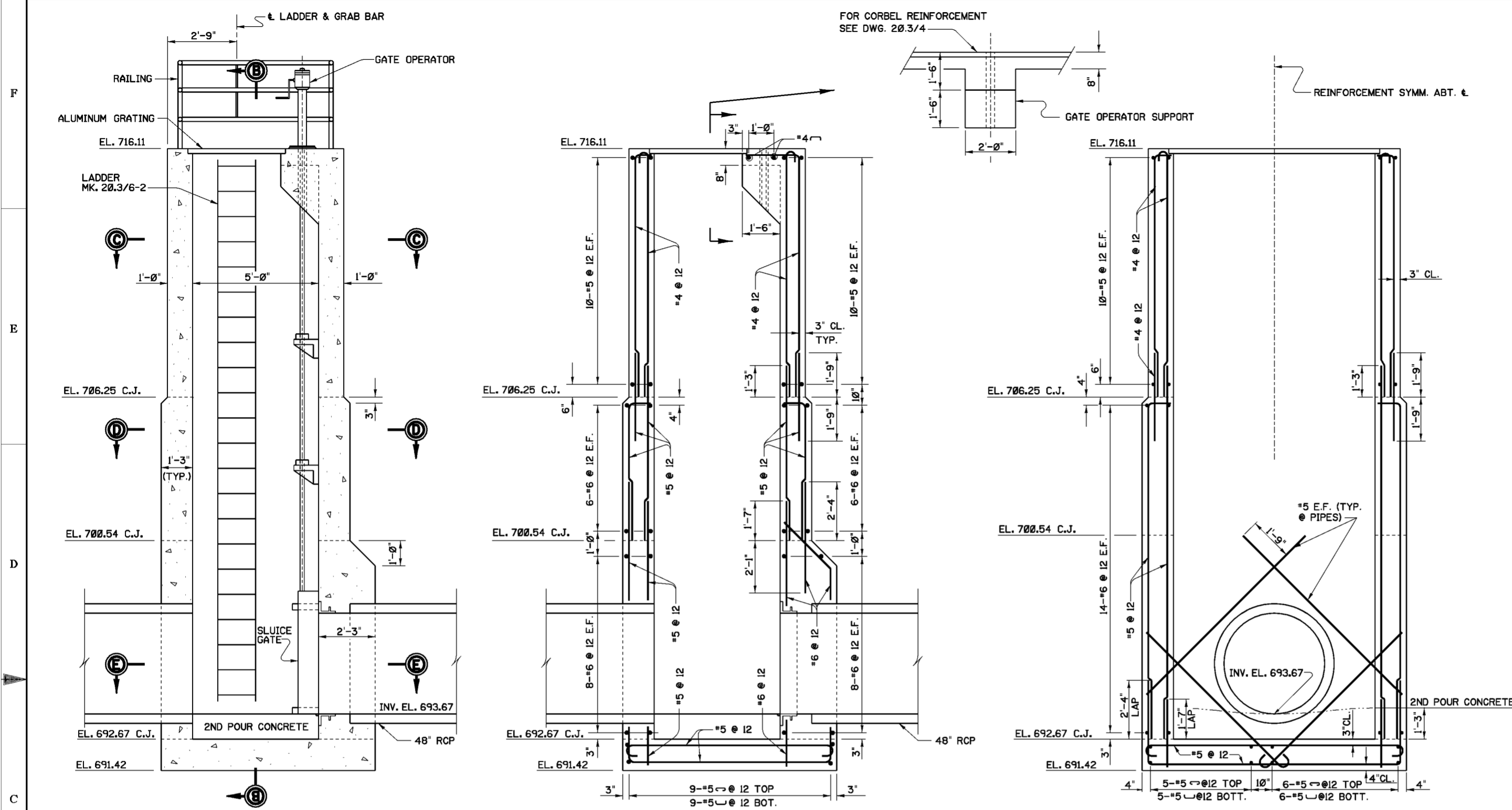


- NOTES**
- FOR GENERAL NOTES SEE DWG. 0/4.
  - FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
  - PROVIDE SECOND POUR CONCRETE OVER BASE AS SHOWN.
  - FOR LADDER AND RETRACTABLE GRAB BAR, SEE DWG. 20.3/6.

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: R.S.R.	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>42" FLAP GATE CHAMBER MASONRY &amp; REINFORCEMENT DETAILS</b>	Sheet reference number: AS SHOWN	FILENAME: 20.3.1.dgn
Drawn by: R.S.R.		Date: MARCH 2000	PEN TABLE:
Checked by: D.A.K. M.B.S.	Reviewed by:	Drawing Code: O16-PWC-13	20.3/1
Approved by:			Sheet of

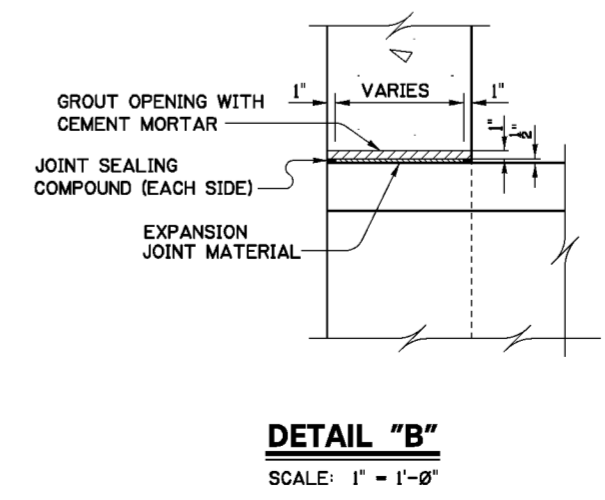
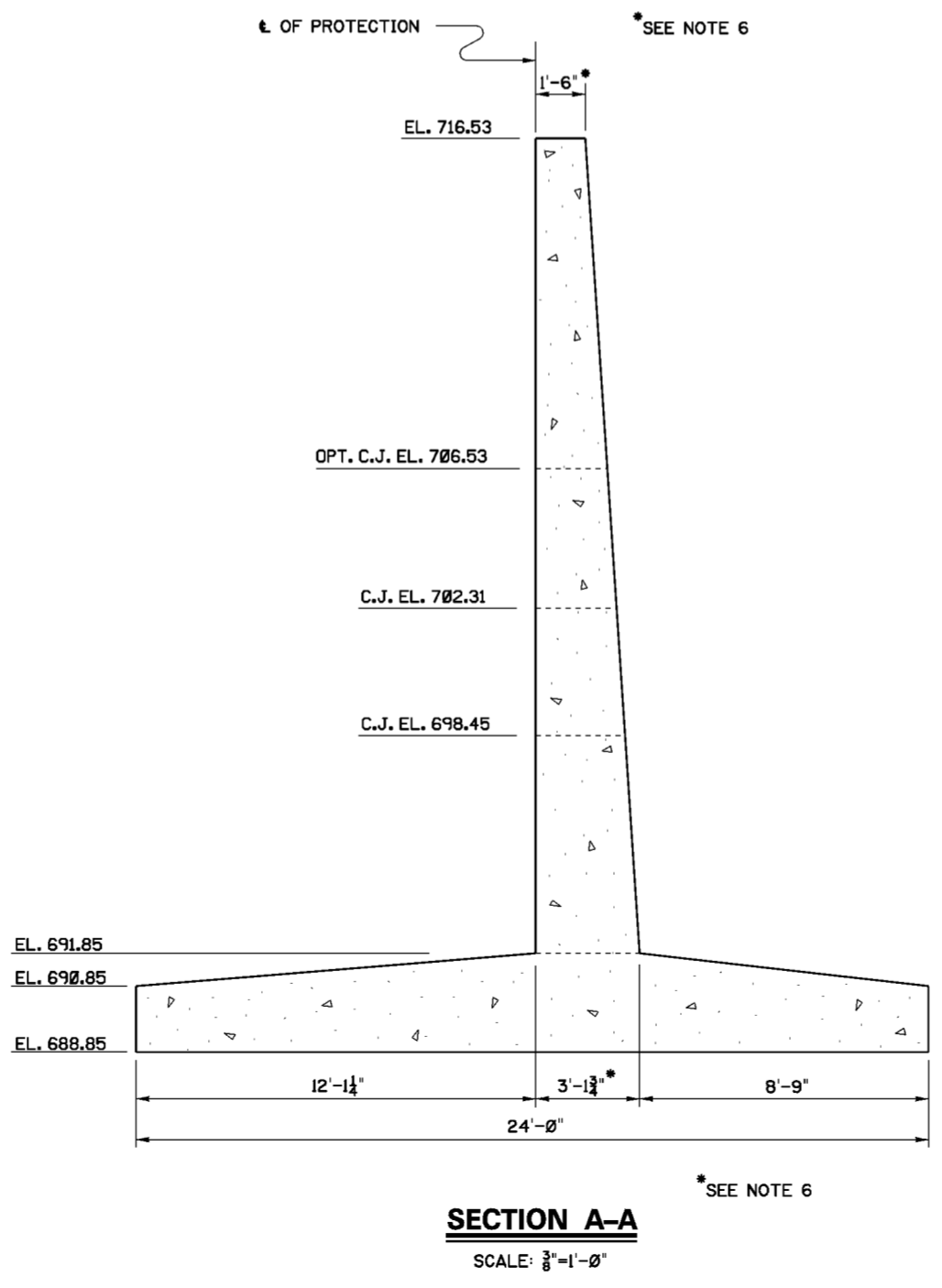
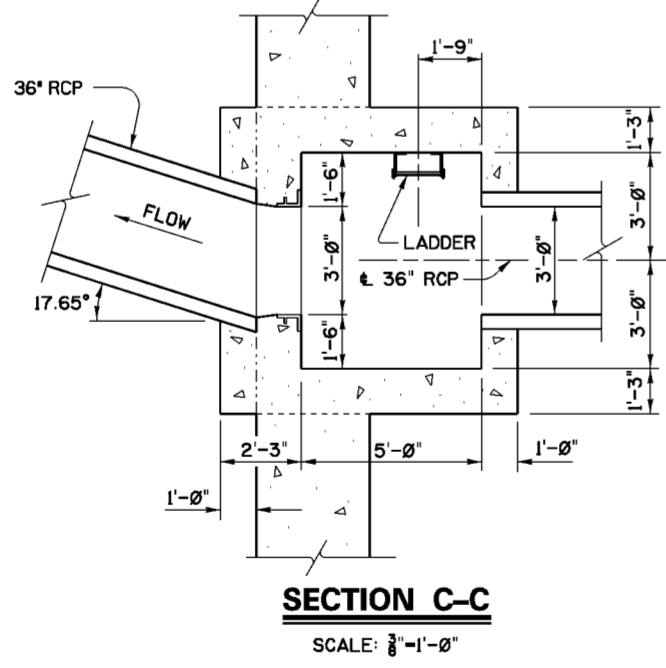
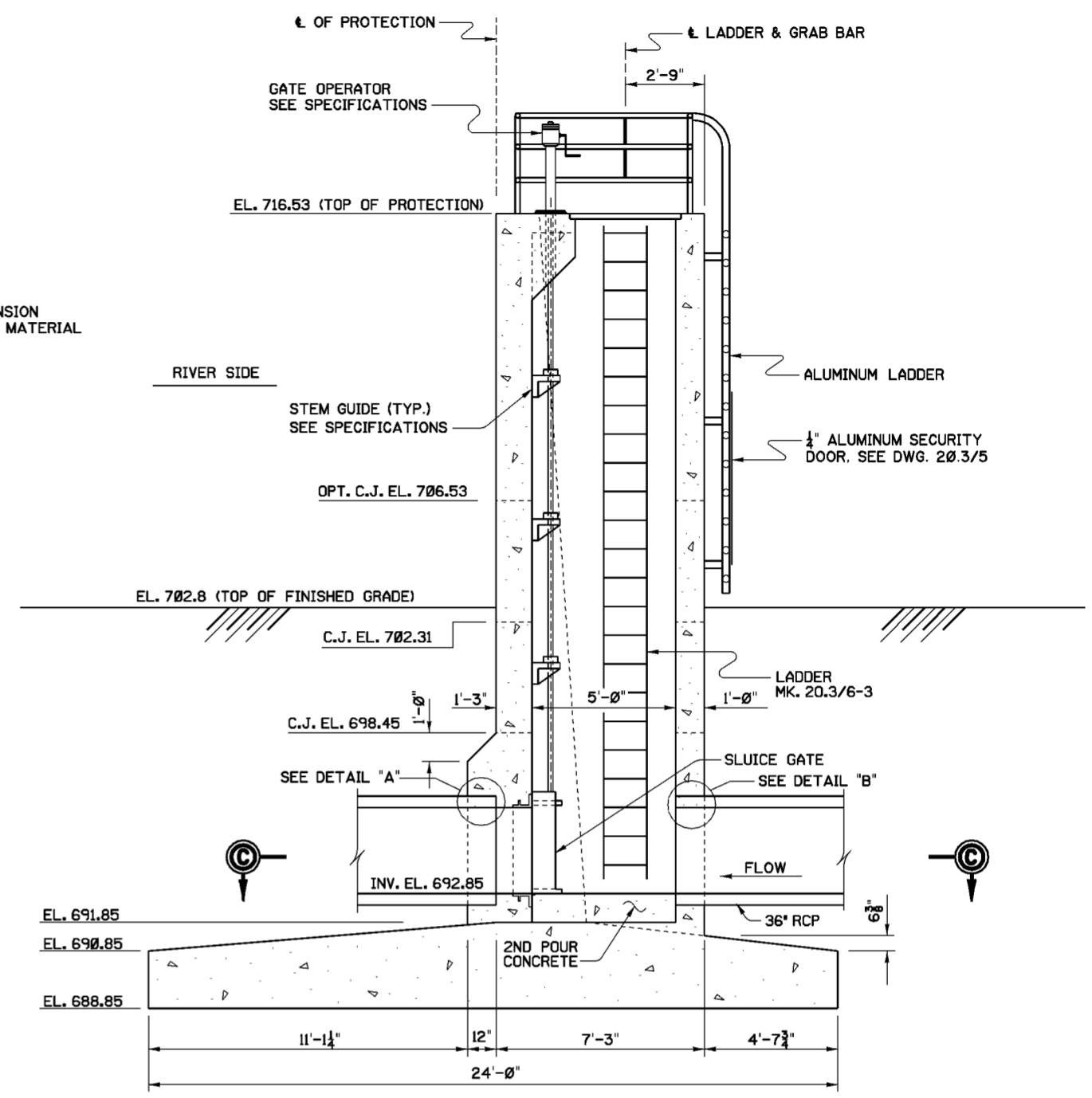
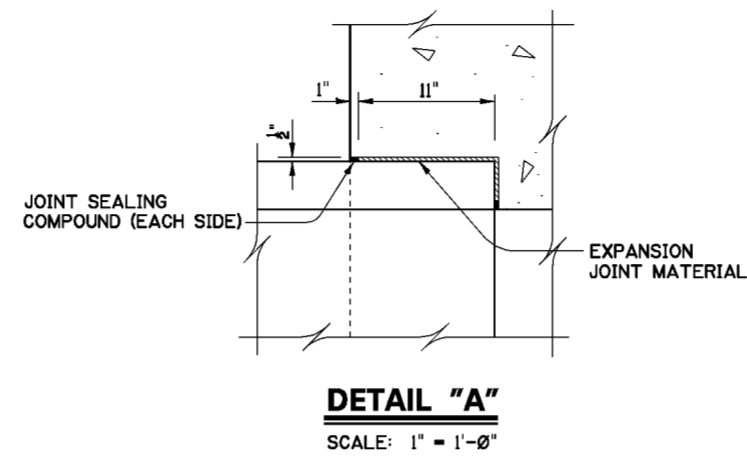
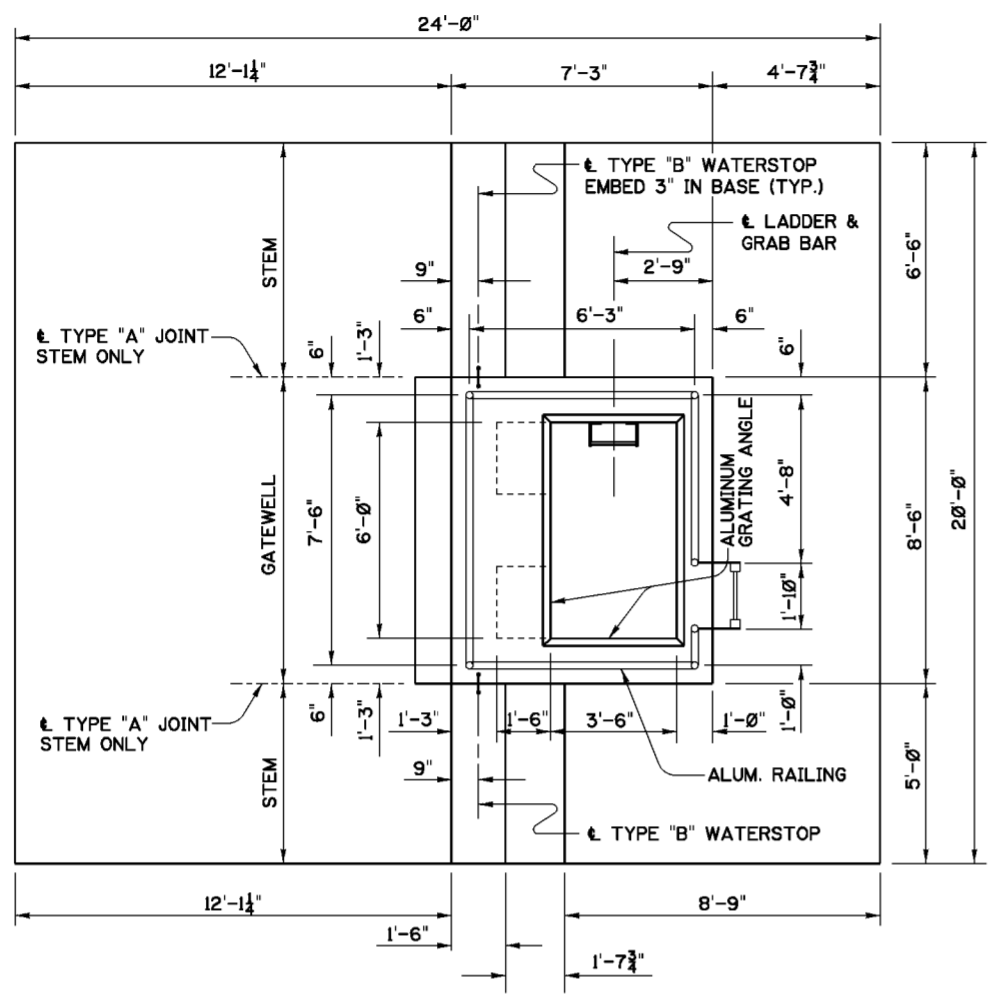


- NOTES**
1. FOR GENERAL NOTES SEE DWG. 20/4.
  2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20/1.1.
  3. PROVIDE SECOND POUR CONCRETE OVER BASE AS SHOWN.
  4. FOR GRATING DETAILS SEE DWG. 20/3.5.
  5. FOR LADDER AND RAILING DETAILS SEE DWG. 20/3/6.

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: D.A.M.	 SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III <b>48" SLUICE GATE CHAMBER MASONRY &amp; REINFORCEMENT DETAILS</b>	Checked by: D.A.K. M.B.S.	Reviewed by:
Drawn by: M.B.S. B.W.D.		Scale: AS SHOWN	Sheet reference number:
Approved by:		Date: MARCH 2000	FILENAME: 203_2.dgn
		Drawing Code: O16-PWC-13	PEN TABLE:
			203/2

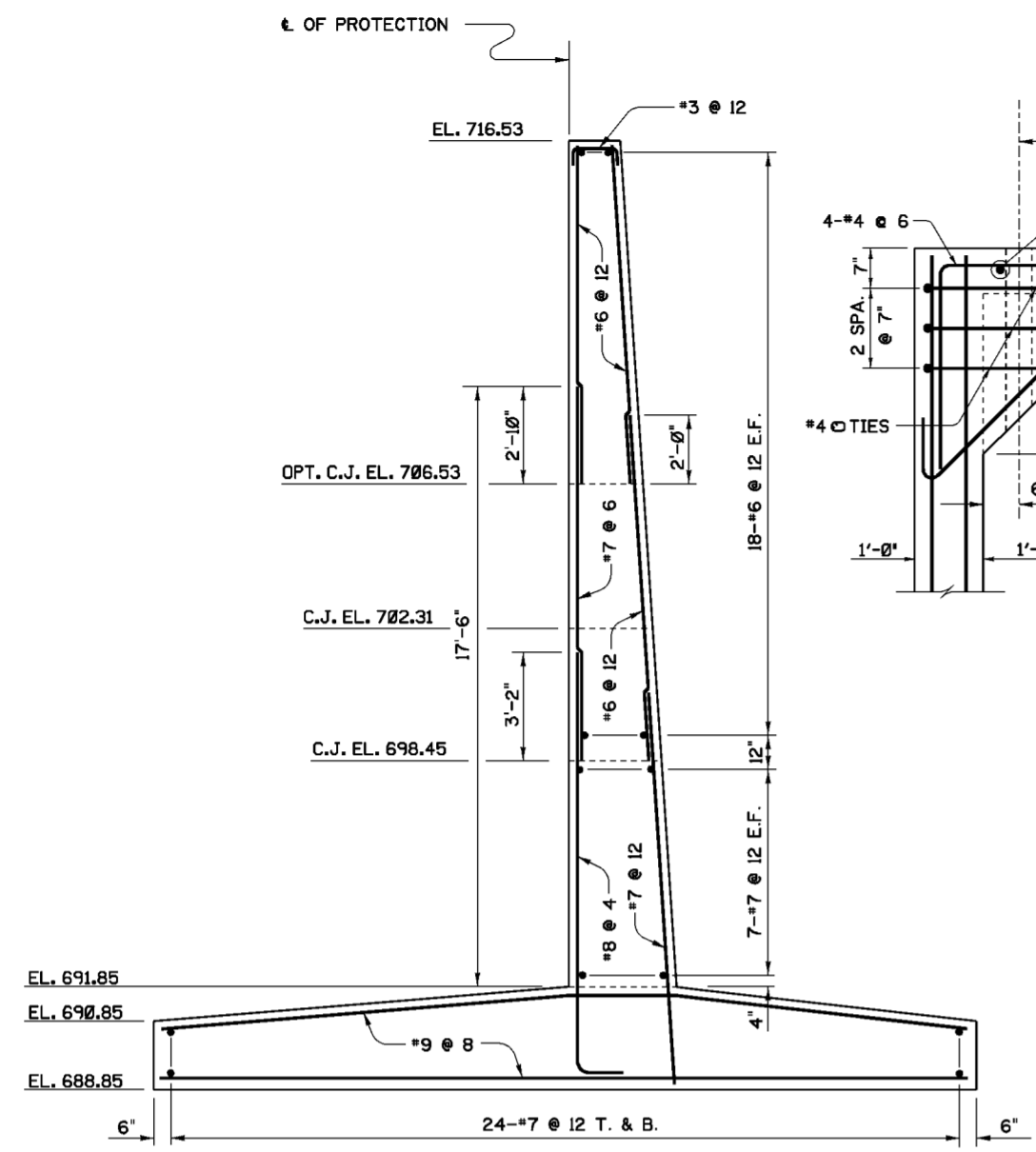


- NOTES**
- FOR GENERAL NOTES SEE DWG. 20.1/4.
  - FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
  - SECOND POUR CONCRETE SHALL BE SIMILAR TO THAT SHOWN ON SECTION B-B, DWG. 20.3/2.
  - FOR ALUMINUM LADDER AND GRATING DETAILS SEE DWG. 20.3/5.
  - FOR LADDER AND RAILING DETAILS SEE DWG. 20.3/6.
  - WALL STEM MASONRY STRUCTURAL DIMENSIONS EXCLUDE FRACTURED FIN SURFACE TREATMENT. SEE DWG. 20.1/13.
  - FOR TYPE "B" WATERSTOP SEE DWG. 20.1/4.

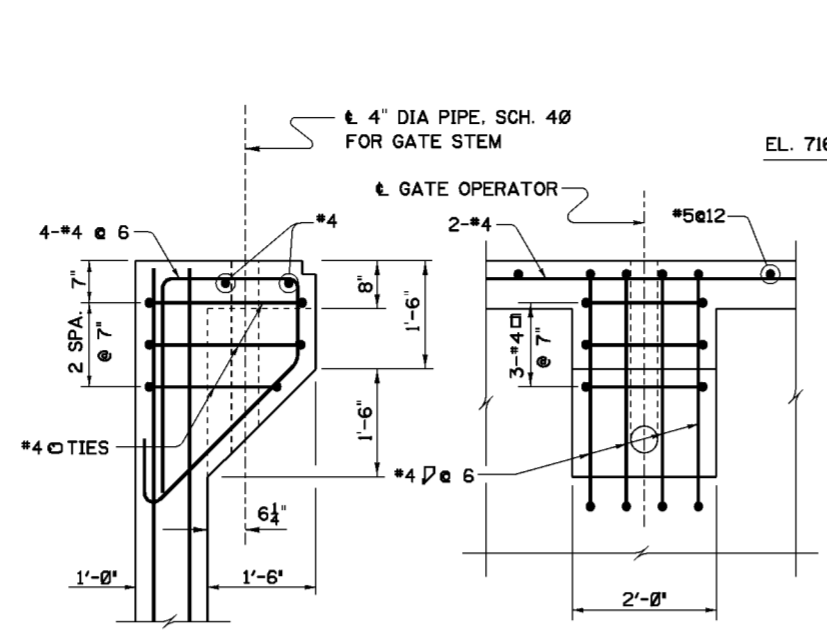
Revisions			
Symbol	Descriptions	Date	Approved

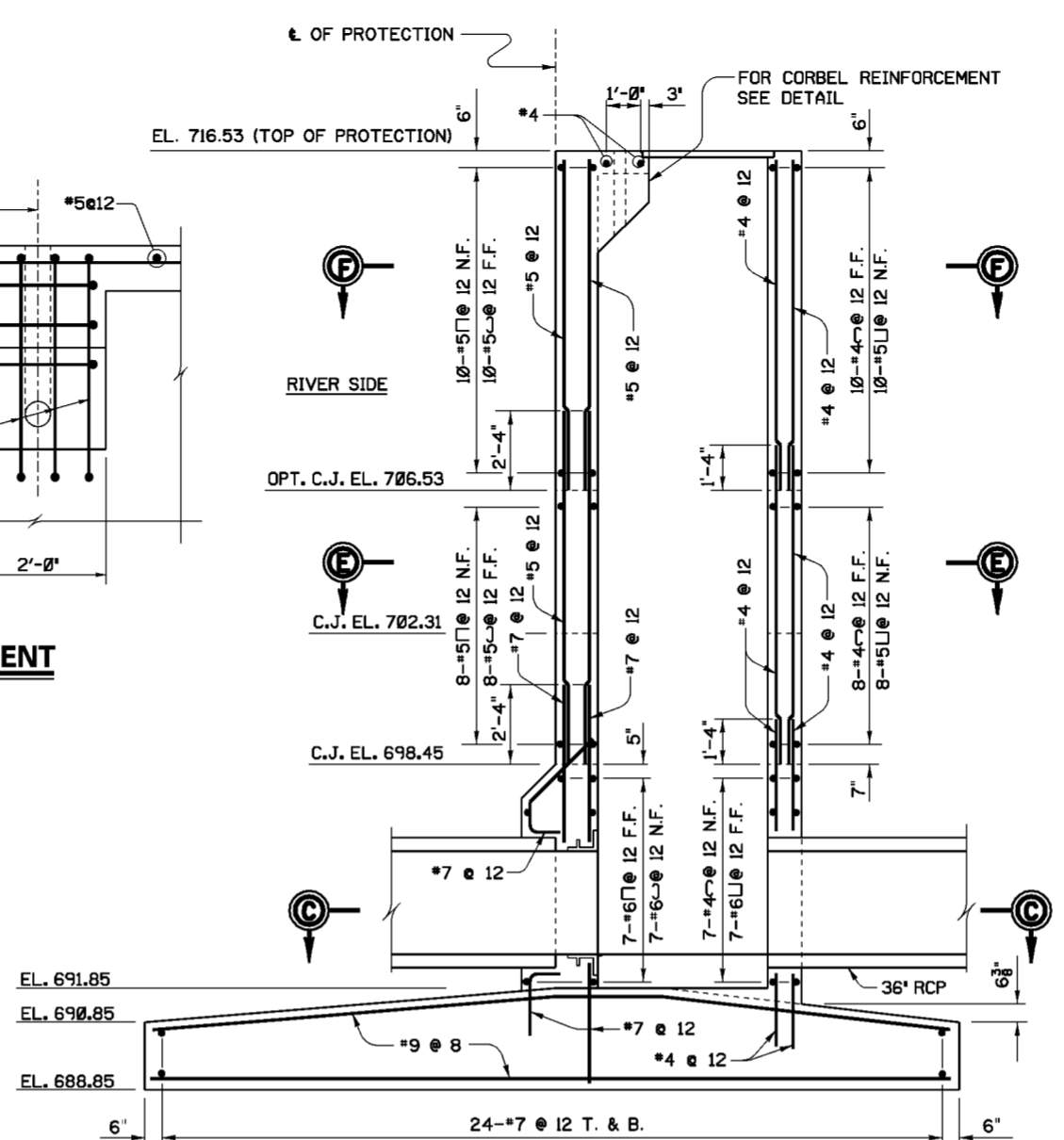
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB	
Designed by: S.A.W.	Drawn by: M.B.S. B.W.D.	Checked by: M.P.R. S.A.W.	Reviewed by: AS SHOWN
Approved by:	Date: MARCH 2000	Drawing Code: O16-PWC-13	Sheet reference number: 20.3/3
<b>36" SLUICE GATE CHAMBER MASONRY DETAILS</b>		FILENAME: 203_3.dgn	PEN TABLE: Sheet of



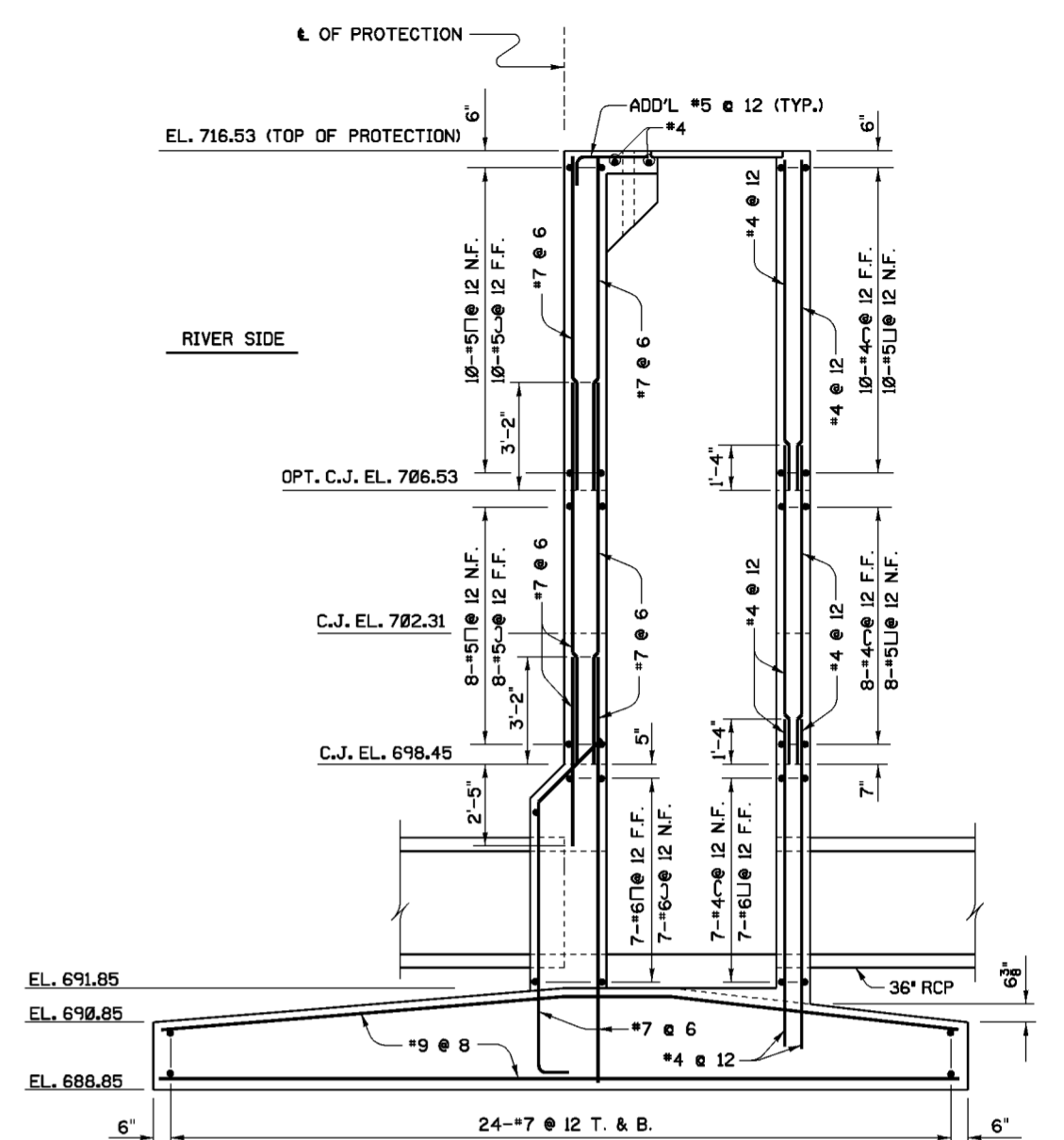
**SECTION A-A - REINFORCEMENT**  
SCALE: 3/8"=1'-0"



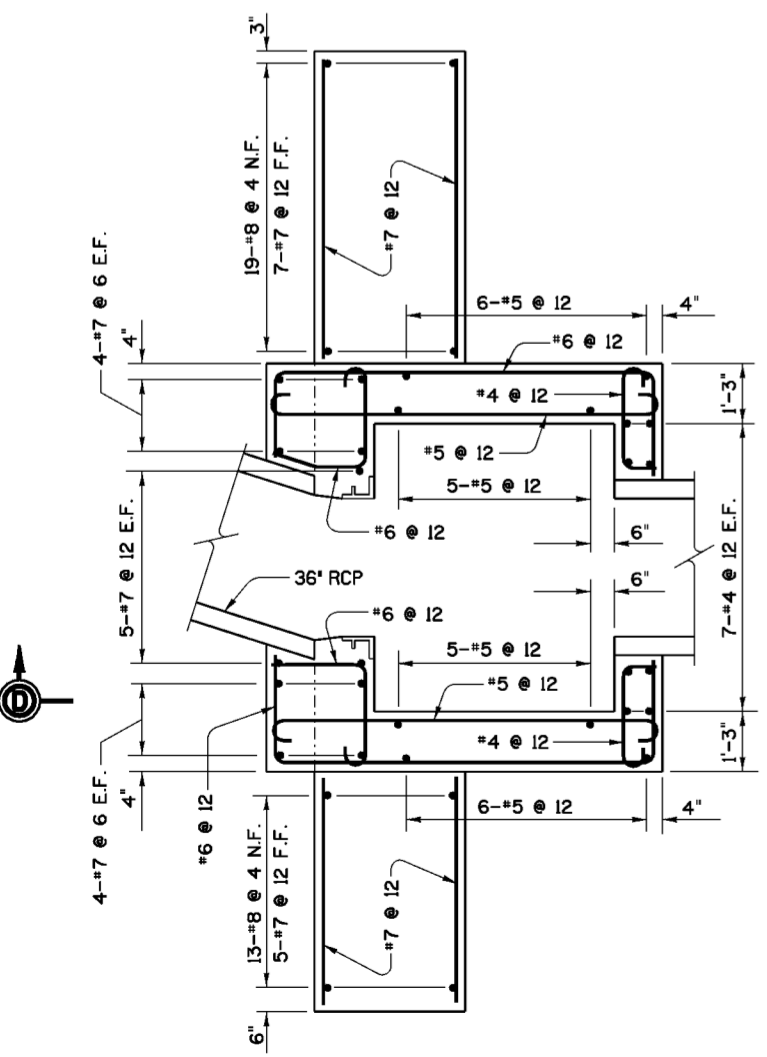
**CORBEL REINFORCEMENT**  
SCALE: 3/8"=1'-0"



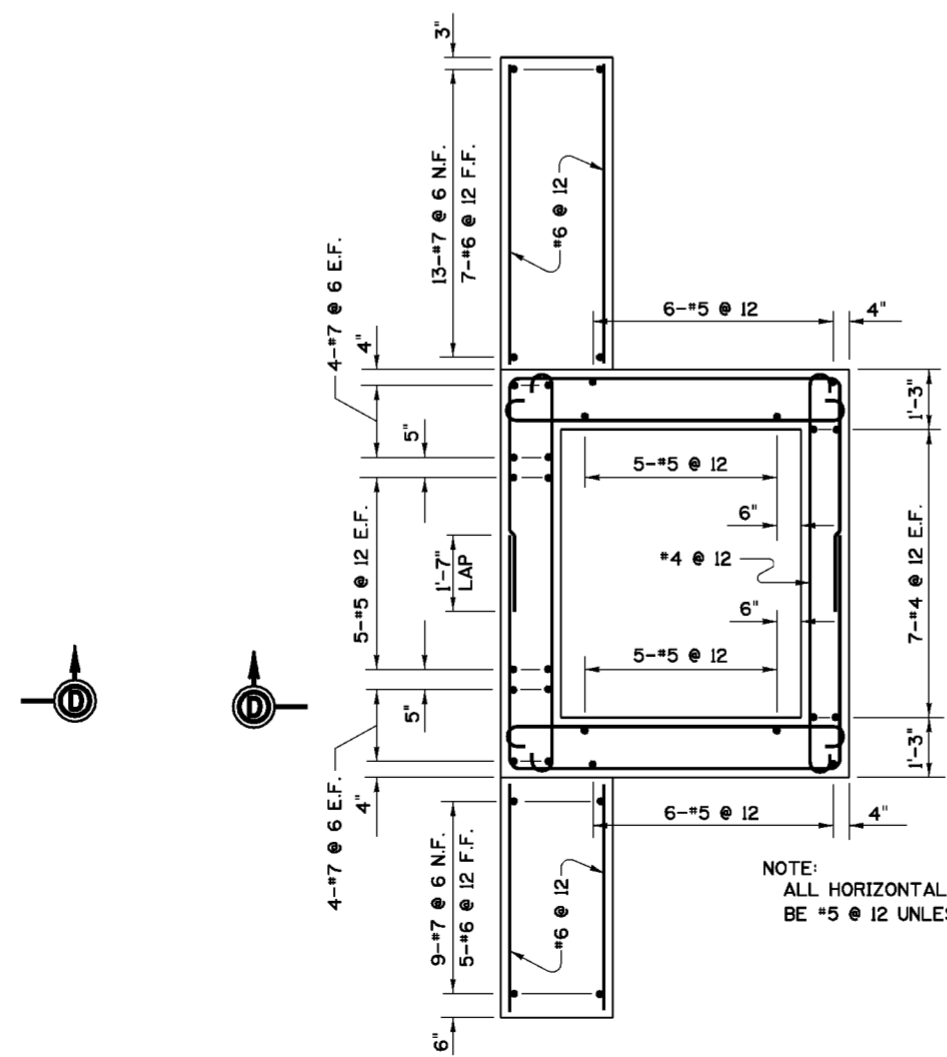
**SECTION B-B - REINFORCEMENT**  
SCALE: 3/8"=1'-0"



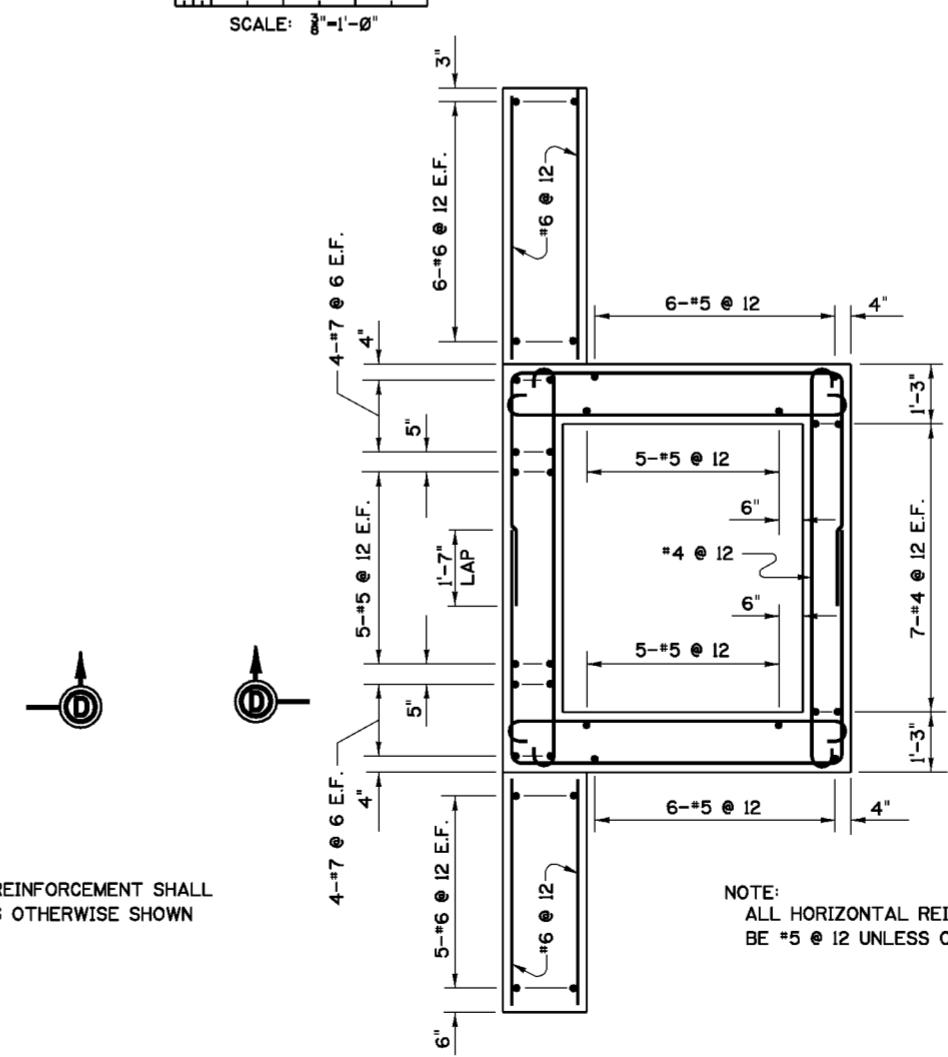
**SECTION D-D**  
SCALE: 3/8"=1'-0"



**SECTION C-C**  
SCALE: 1/2"=1'-0"



**SECTION E-E**  
SCALE: 1/2"=1'-0"



**SECTION F-F**  
SCALE: 1/2"=1'-0"

NOTE:  
ALL HORIZONTAL REINFORCEMENT SHALL  
BE #5 @ 12 UNLESS OTHERWISE SHOWN

NOTE:  
ALL HORIZONTAL REINFORCEMENT SHALL  
BE #5 @ 12 UNLESS OTHERWISE SHOWN

**NOTES**

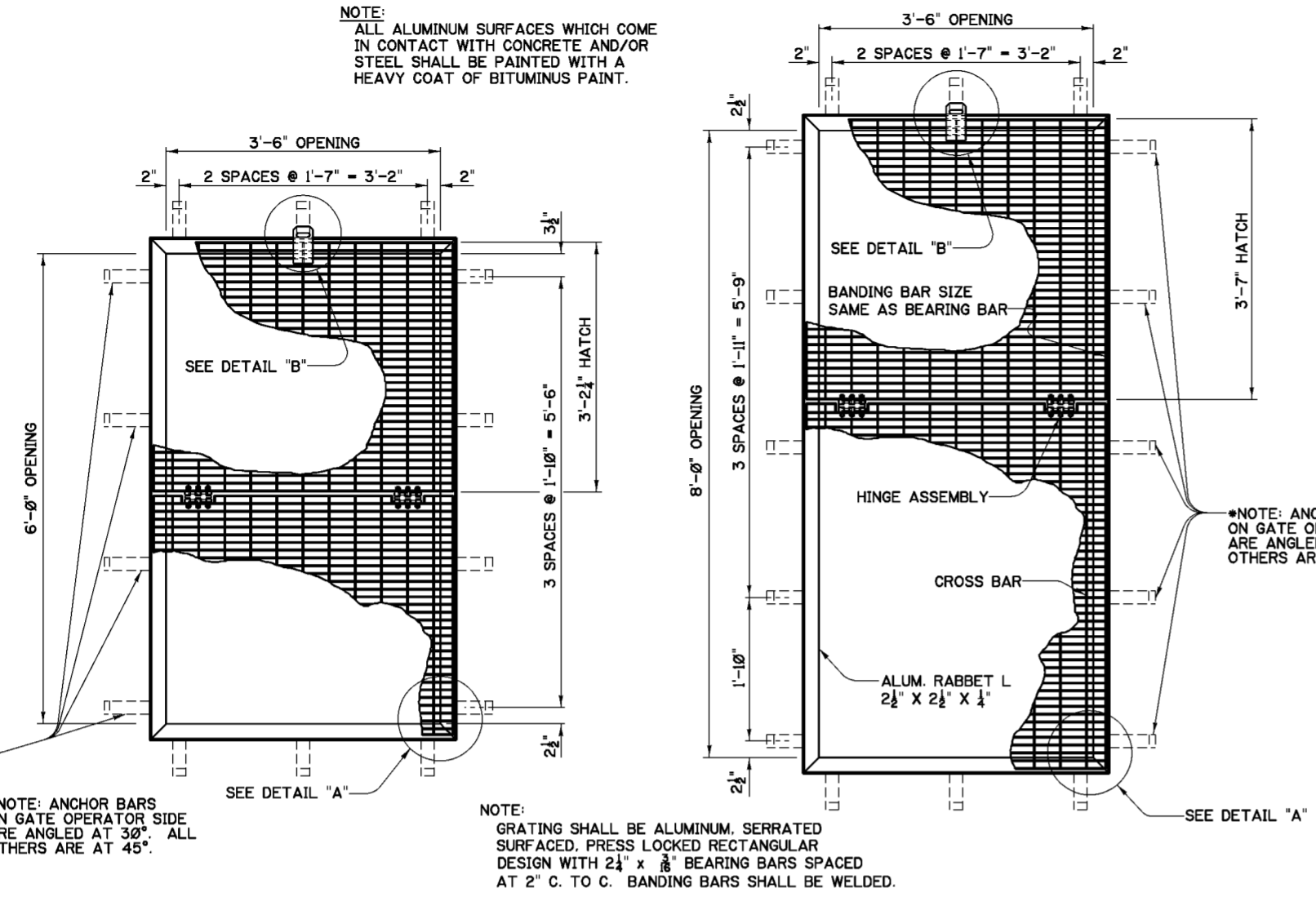
1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR LOCATION OF SECTIONS A-A AND B-B SEE DWG. 20.3/3.
4. REINFORCEMENT AROUND PIPE OPENINGS AND WALL THIMBLE SIMILAR TO THAT SHOWN ON DWG. 20.3/2.
5. WALL STEM MASONRY STRUCTURAL DIMENSIONS EXCLUDE FRACTURED FIN SURFACE TREATMENT. SEE DWG. 20.1/13.

Revisions			
Symbol	Descriptions	Date	Approved

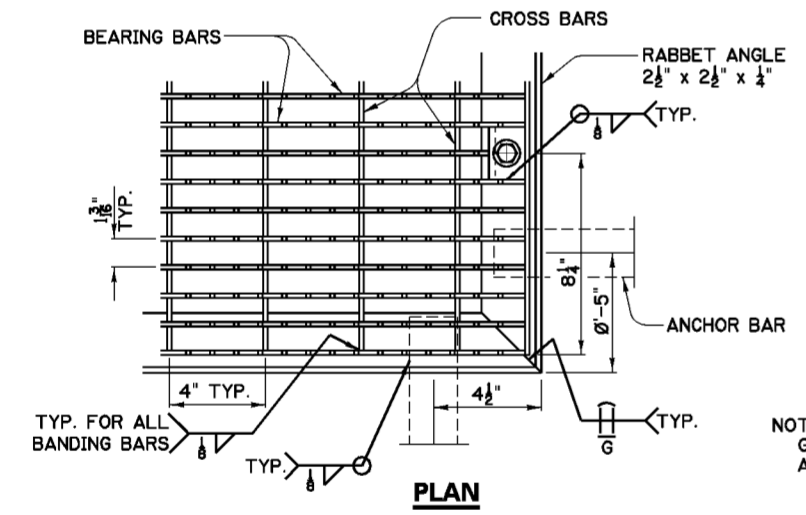
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: S.A.W.	 SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	<b>36" SLUICE GATE CHAMBER REINFORCEMENT DETAILS</b>	
Drawn by: M.B.S. B.W.D.		Scale: AS SHOWN	Sheet reference number: 20.3/4
Checked by: M.P.R. M.B.S.		Date: MARCH 2000	FILENAME: 203_4.dgn
Reviewed by:		Drawing Code: O16-PWC-13	SHEET TABLE: PEN TABLE:
Approved by:			

NOTE:  
ALL ALUMINUM SURFACES WHICH COME IN CONTACT WITH CONCRETE AND/OR STEEL SHALL BE PAINTED WITH A HEAVY COAT OF BITUMINUS PAINT.

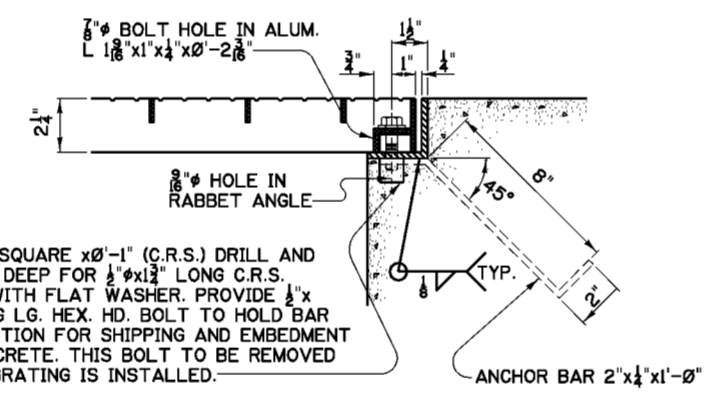


**GRATING AT 36" GATE CHAMBER**  
SCALE: 1" = 1'-0"

**GRATING AT 48" GATE CHAMBER**  
SCALE: 1" = 1'-0"

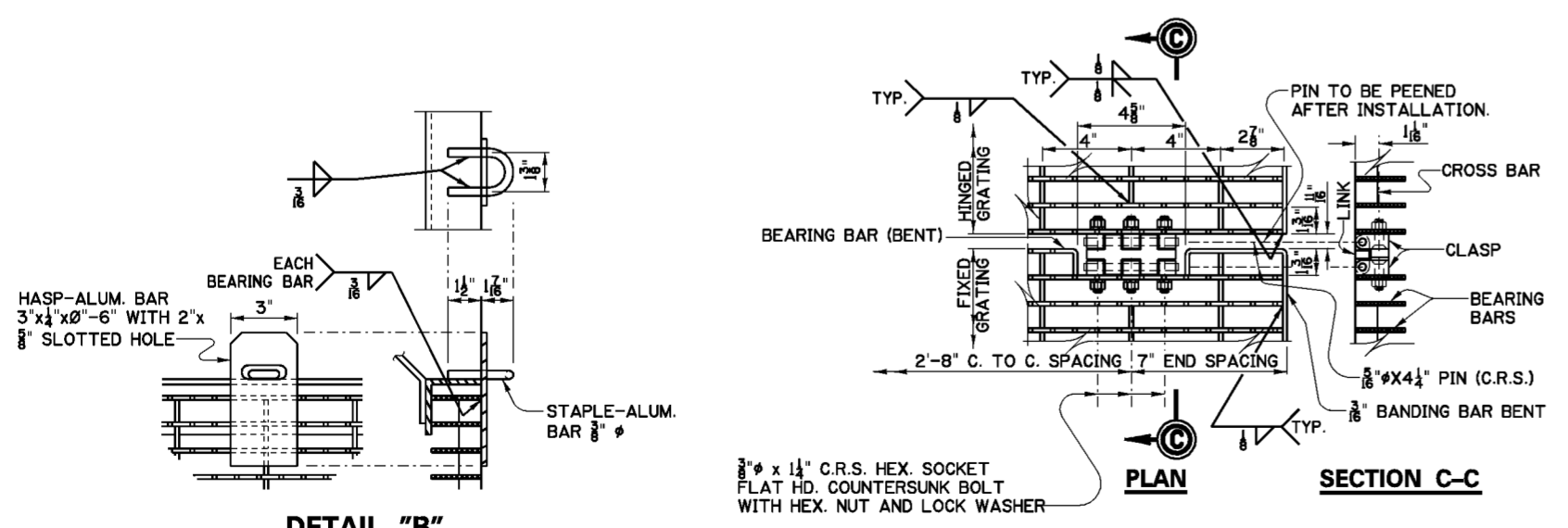


PLAN



SECTION

**DETAIL "A" - GRATING AND RABBET ANGLE (TYP.)**  
SCALE: 3" = 1'-0"

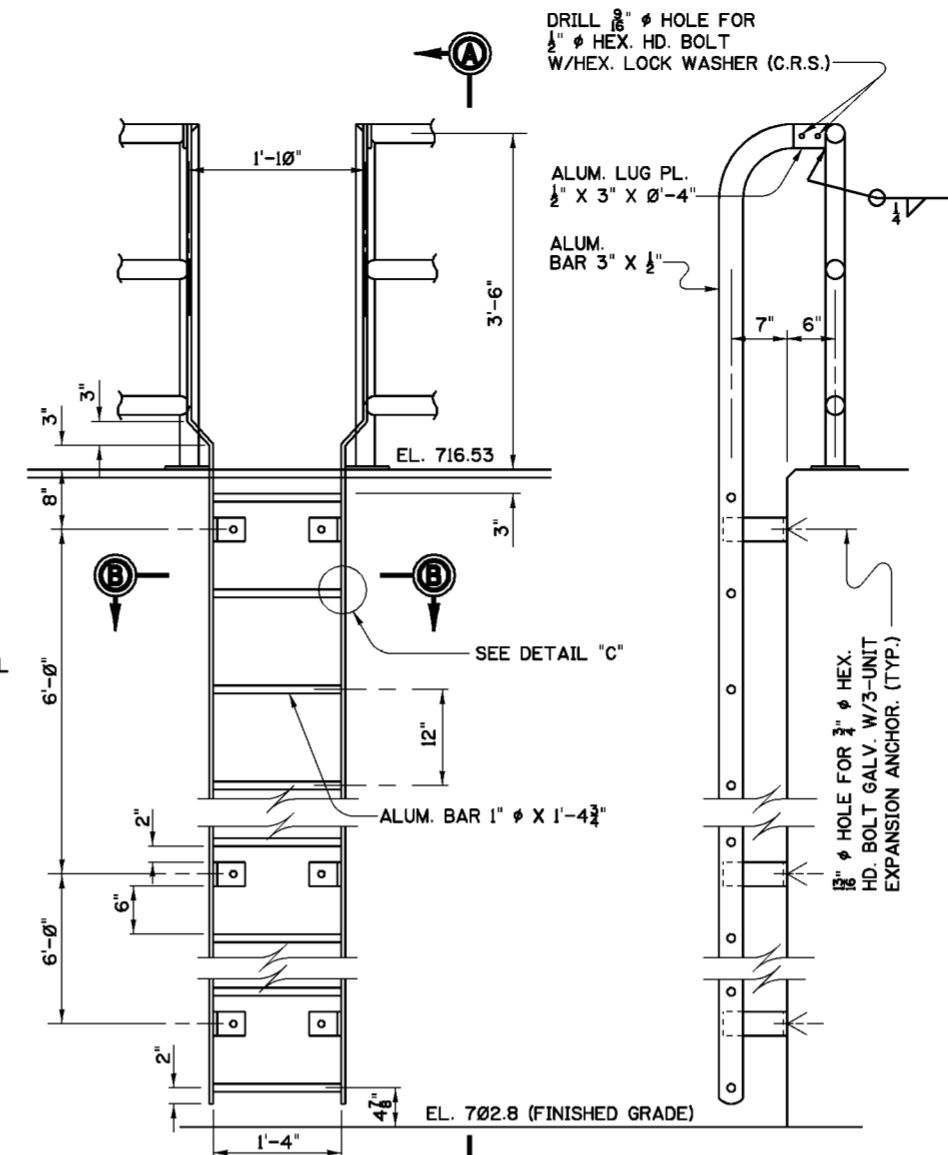


PLAN

SECTION C-C

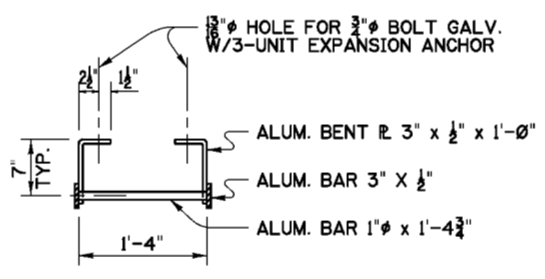
**HINGE ASSEMBLY AND GRATING DETAILS**  
SCALE: 3" = 1'-0"

**DETAIL "B"**  
SCALE: 3" = 1'-0"

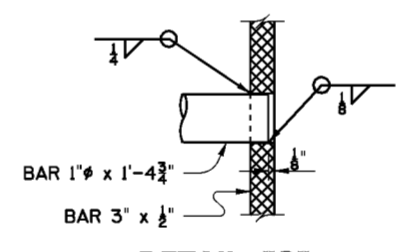


**LADDER OUTSIDE 36" GATE CHAMBER**  
SCALE: 1" = 1'-0"

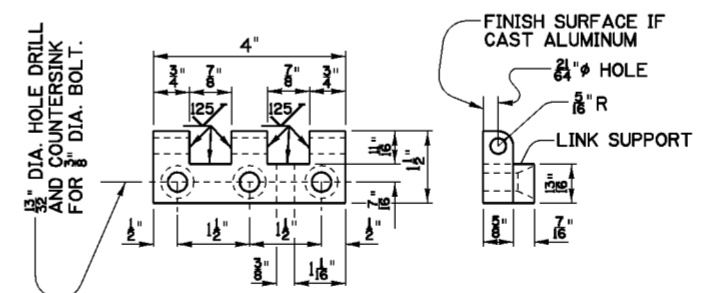
**ELEVATION A-A**  
SCALE: 1" = 1'-0"



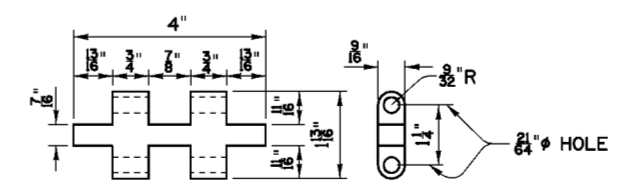
**SECTION B-B**  
SCALE: 1" = 1'-0"



**DETAIL "C"**  
SCALE: 6" = 1'-0"



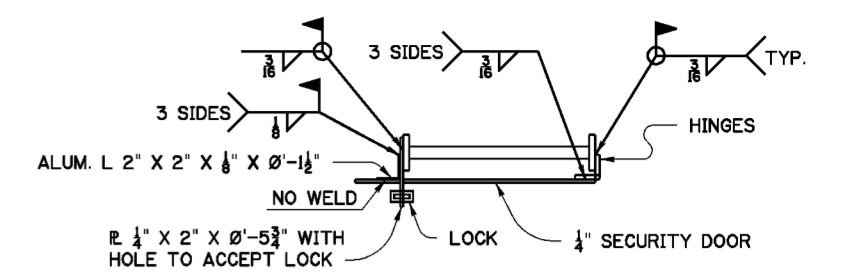
CLASP



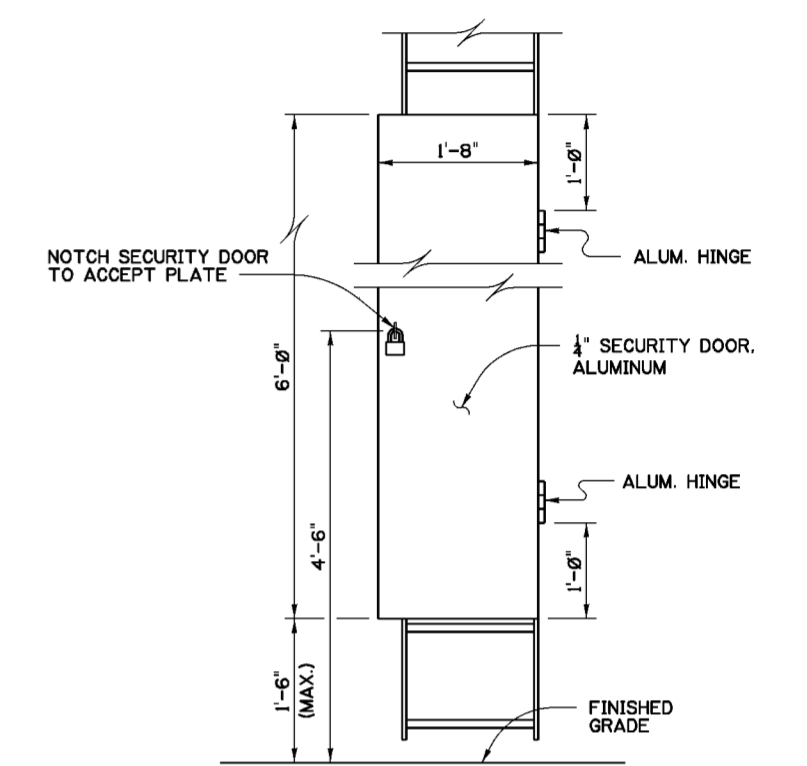
LINK

NOTE:  
HINGES MAY BE FABRICATED FROM ALUM. BARS 6061-T6 OR FROM CAST ALUM. ALCOA 195-76 OR EQUAL.

**HINGE DETAILS**  
SCALE: 6" = 1'-0"



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



**ELEVATION**  
SCALE: 1" = 1'-0"

**SECURITY DOOR DETAIL**

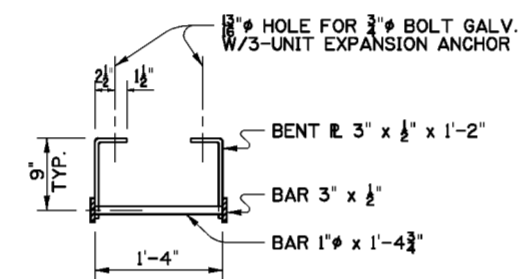
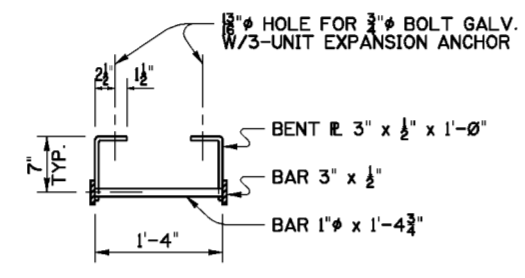
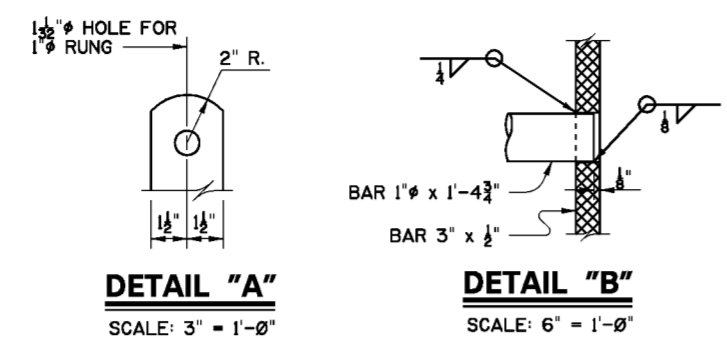
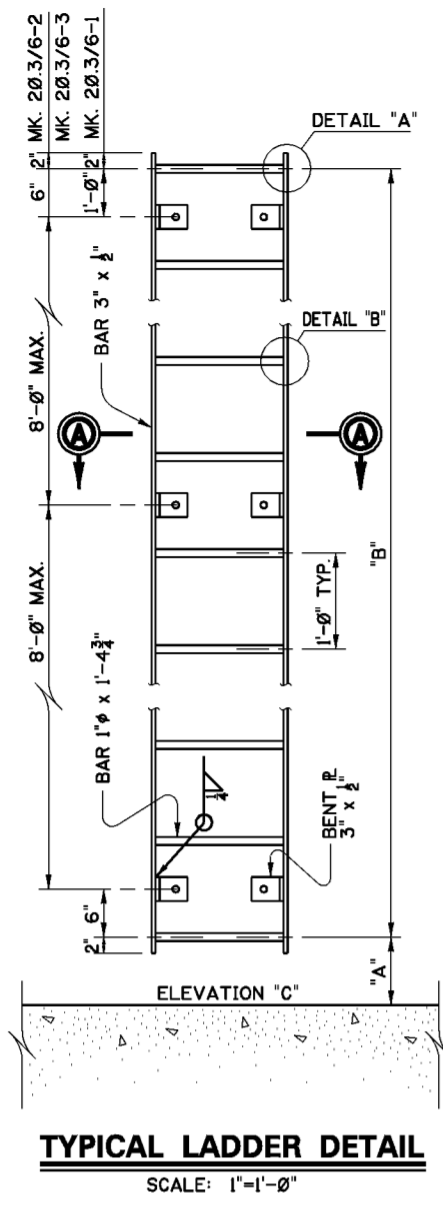
**NOTES**

- FOR GENERAL NOTES SEE DWG. 0/4.
- FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
- ALL MATERIAL ON THIS DRAWING SHALL BE ALUMINUM ALLOY 6061-T6 UNLESS OTHERWISE NOTED.
- FOR 48" AND 36" SLUICE GATE CHAMBER DWGS. SEE 20.3/2 AND 20.3/3 RESPECTIVELY.
- PADLOCKS FOR 36" GATE CHAMBER SHALL BE KEYPED ALIKE.
- ALUMINUM HINGES FOR SECURITY DOOR SHALL BE 4" X 4" BLANK SURFACE TYPE WITH NON-REMOVABLE PINS.

Revisions			
Symbol	Descriptions	Date	Approved

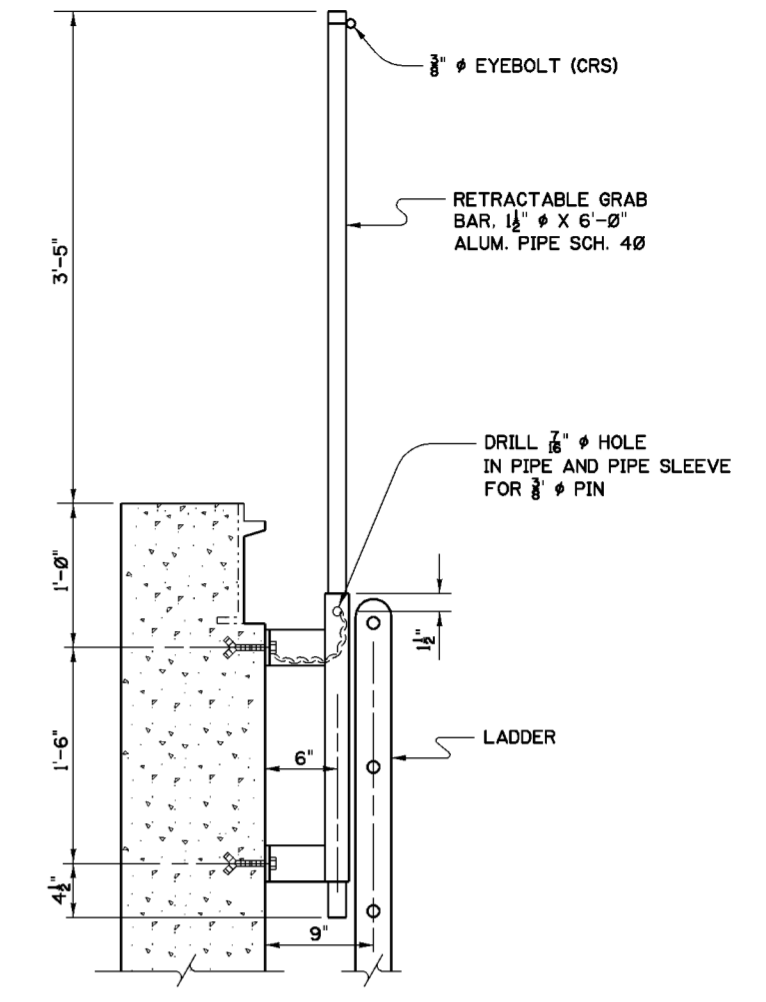
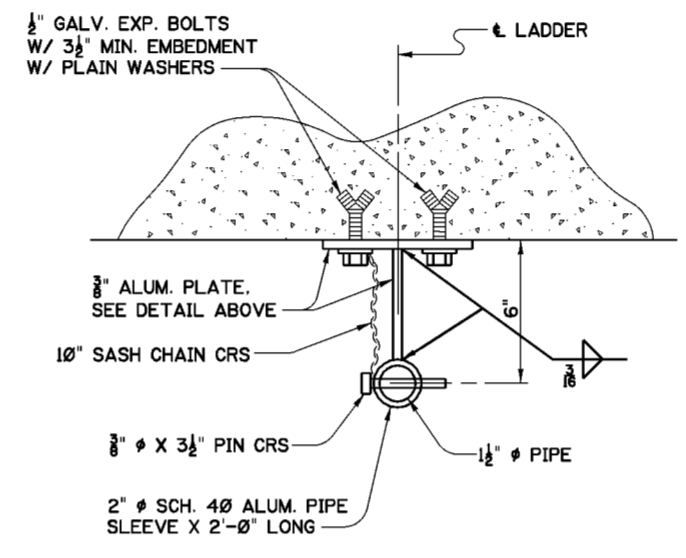
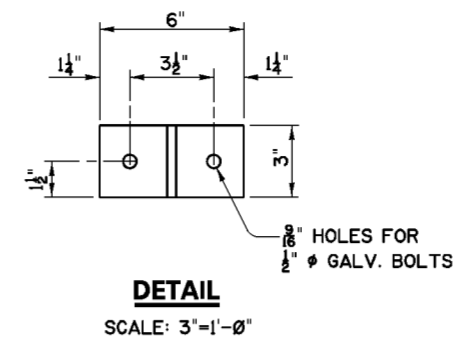
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	B.W.D.	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B  <b>GATE CHAMBERS LADDER &amp; GRATING DETAILS</b>	
Drawn by:	N.B.M. B.W.D.		
Checked by:	B.W.D. M.B.S.		
Reviewed by:			
Approved by:		Scale: AS SHOWN	Sheet reference number: 20.3/5
		Date: MARCH 2000	FILENAME: PEN TABLE: 203_5.dgn
		Drawing Code: O16-PWC-13	20.3/5 Sheet of



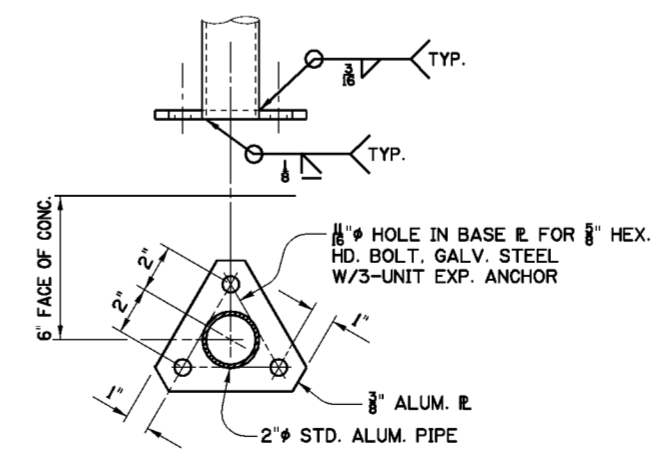
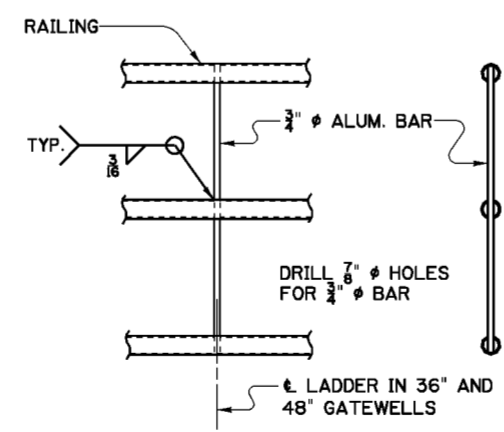
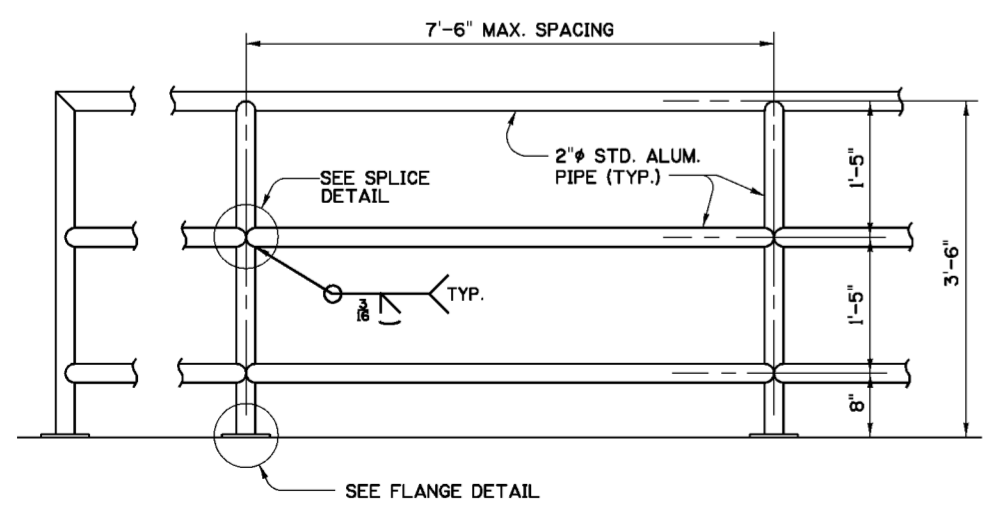
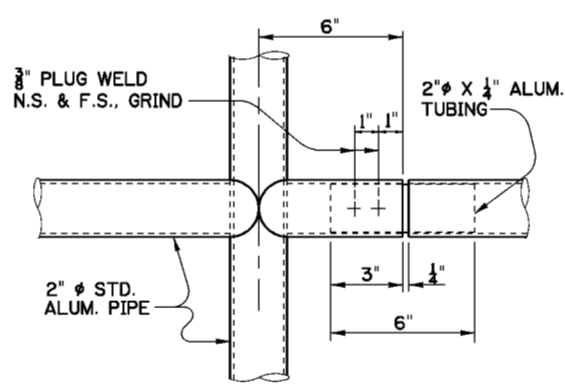
LADDER DIMENSIONS & ELEVATIONS

MK. NO.'S	"A"	"B"	EL. "C"
20.3/6-1	10'	8'-0"	692.03
20.3/6-2	8'	21'-0"	693.92
20.3/6-3	11'	22'-0"	692.85



**RETRACTABLE GRAB BAR**  
MARK 20.3/6-6 MAKE 1

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



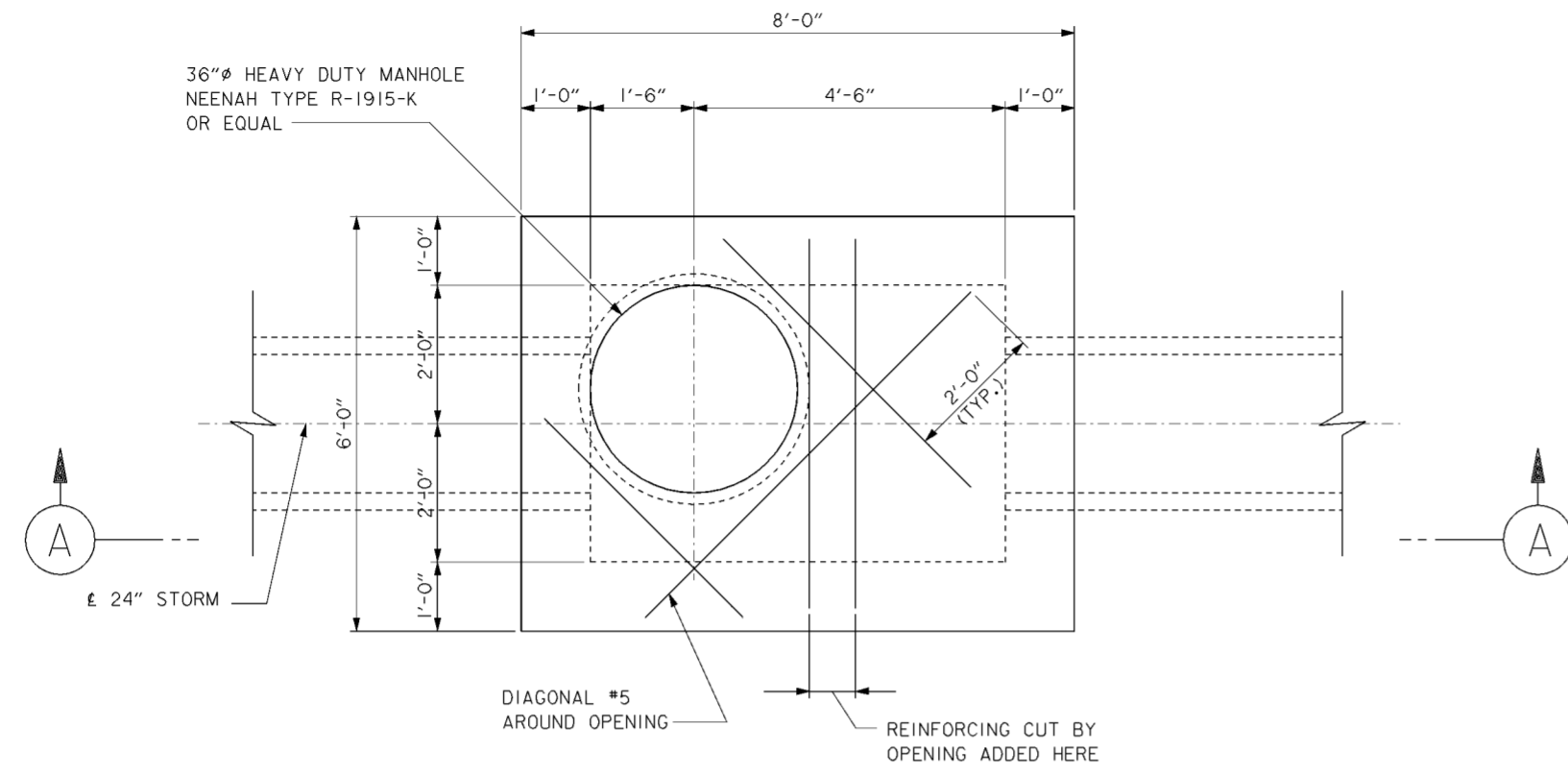
**NOTES**

- FOR GENERAL NOTES SEE DWG. 0/4.
- FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
- ALL MATERIAL ON THIS DWG. SHALL BE STRUCTURAL STEEL, ASTM A36, UNLESS OTHERWISE NOTED. LADDERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- EXPANSION BOLTS SHALL BE GALVANIZED STEEL WITH 6" MIN. EMBEDMENT "KWICK BOLT II" BY HILTI OR EQUAL.
- EYE BOLT SHALL BE 3/8" SHANK DIA. SHOULDER EYE BOLT TYPE 316 STAINLESS STEEL.
- ALL ALUMINUM SURFACES WHICH COME IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH A HEAVY COAT OF BITUMINOUS PAINT.

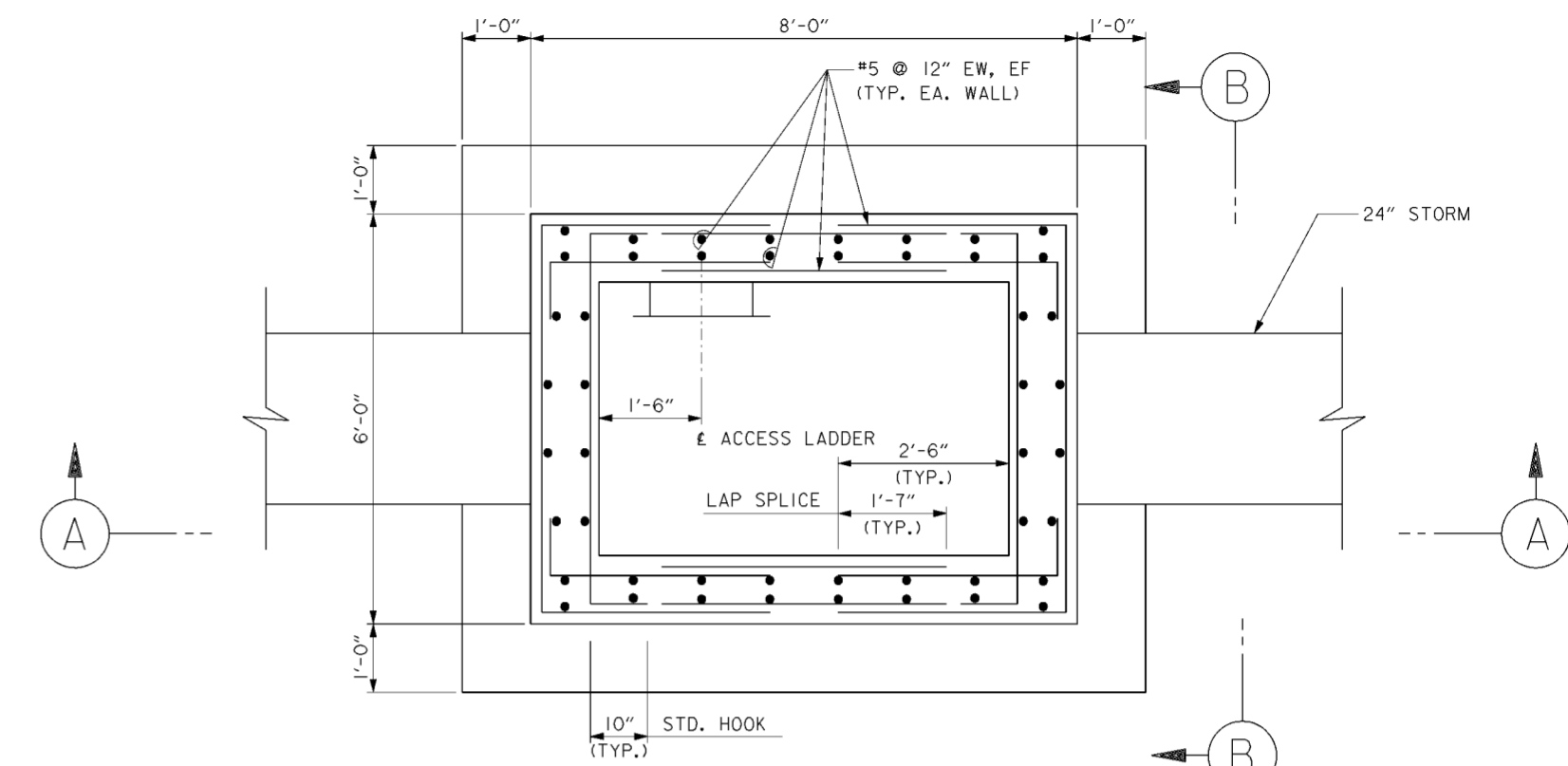
Revisions			
Symbol	Descriptions	Date	Approved

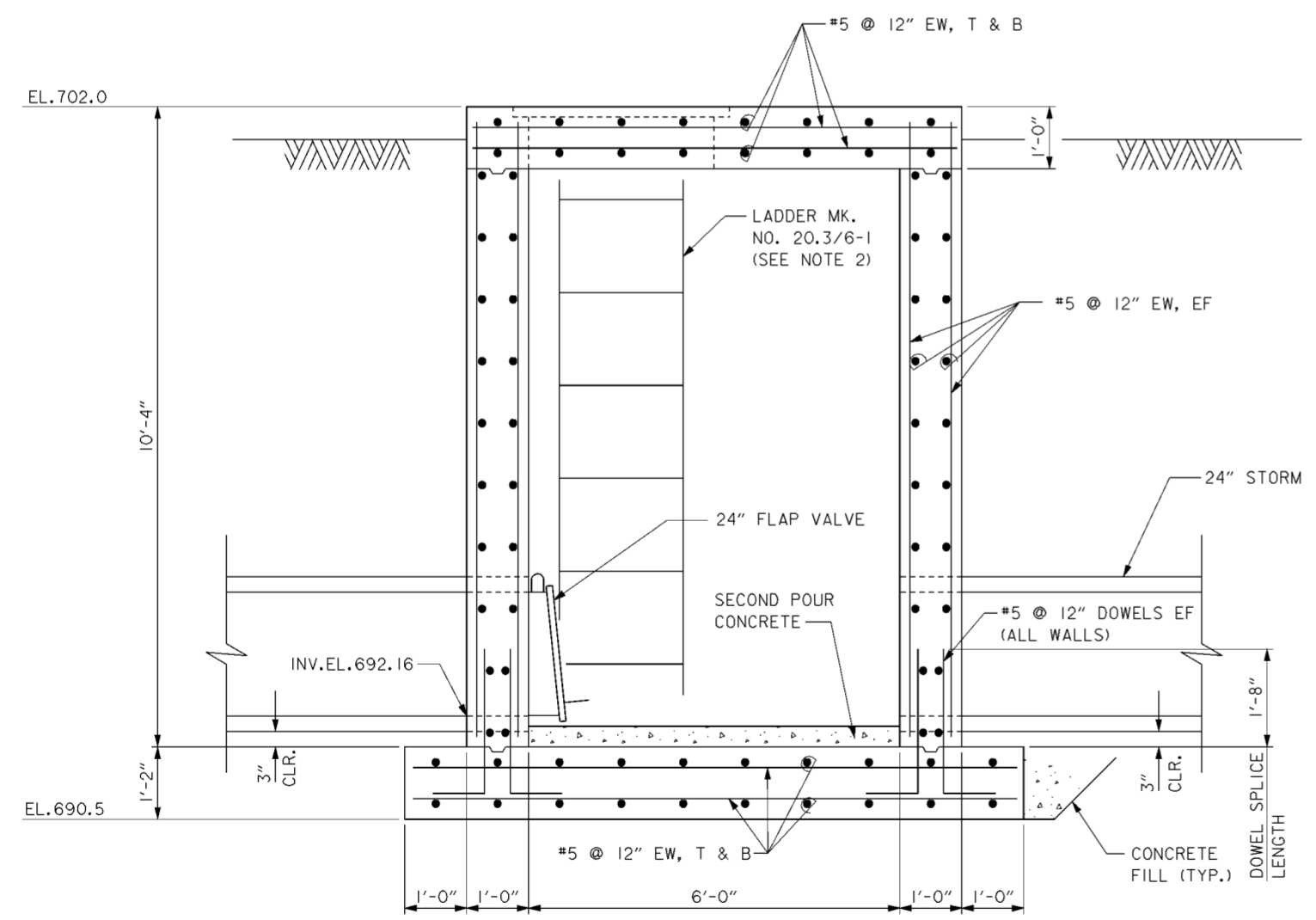
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	B.W.D.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB  <b>GATE CHAMBERS LADDERS AND RAILING DETAILS</b>	
Drawn by:	B.W.D.		
Checked by:	M.B.S.		
Reviewed by:	AS SHOWN		
Approved by:	MARCH 2000		
Scale:	O16-PWC-13	Sheet reference number:	20.3/6
Date:		FILENAME:	20.3_6.dgn
Drawing Code:		PEN TABLE:	



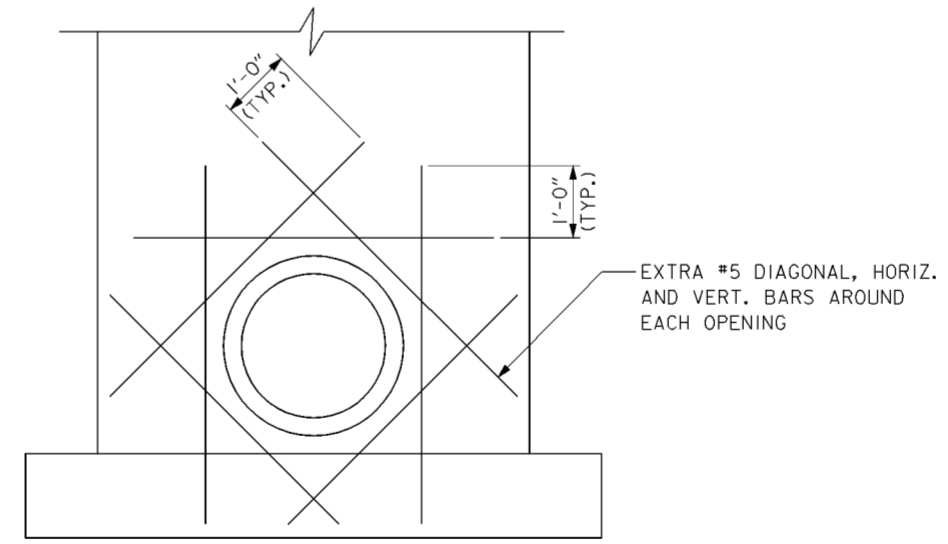
**UPPER PLAN**  
SCALE: 3/4" = 1'-0"  
12" 6" 0 1' 2"



**PLAN AT EL.700**  
SCALE: 3/4" = 1'-0"  
12" 6" 0 1' 2"



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



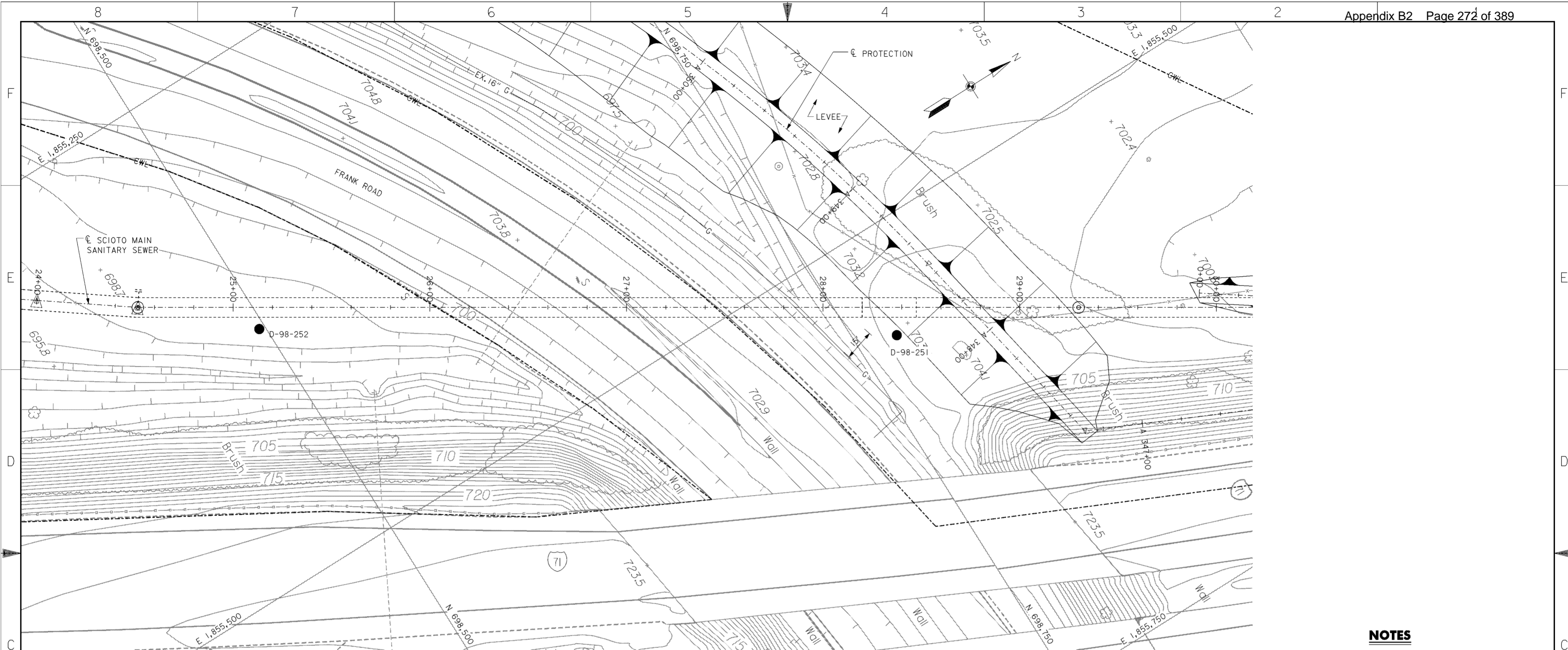
**SECTION B-B**  
SCALE: 3/4" = 1'-0"  
12" 6" 0 1' 2"

**NOTES**

1. FOR LADDER DETAILS SEE DRAWING NO.20.3/6.
2. LADDER DETAILS ARE SIMILAR TO THOSE ON DRAWING NO.20.3/6 EXCEPT EL. "C" IN TABLE SHALL BE MODIFIED TO 692.16.

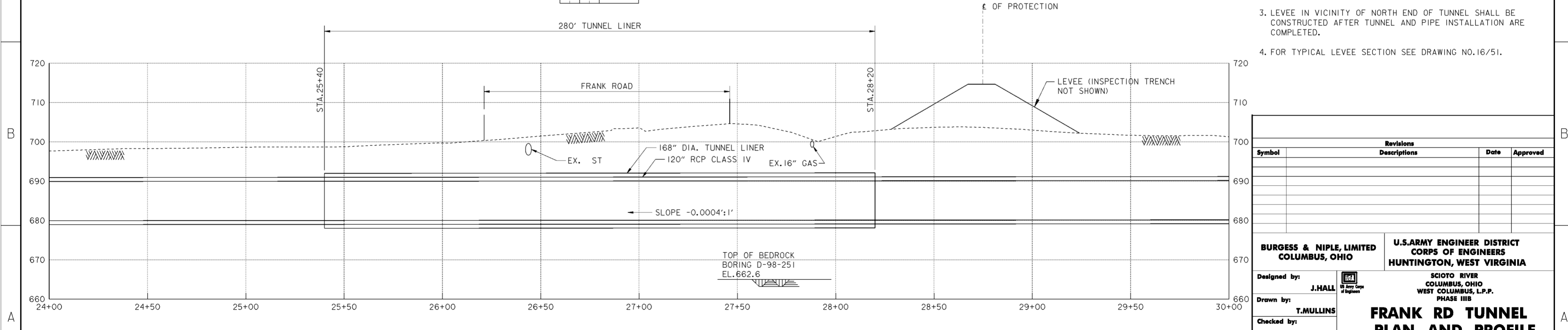
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>T.MARSH</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T.MULLINS</b>	<b>24" FLAP GATE</b> <b>CHAMBER DETAILS</b>
Checked by: <b>P.CONROY</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>20.37</b>
	FILENAME: PEN TABLE: 006ps01.dgn
	Sheet <b>1</b> of <b>1</b>



**PLAN**

SCALE: 1" = 20'



**PROFILE**

**NOTES**

1. FOR TUNNEL LINER, SEE DRAWING NO. 20.3/9.
2. FOR SOIL BORING LOCATIONS, LOGS AND GEOLOGIC PROFILES SEE DRAWING NOS. 10/1 THRU 10/20.
3. LEVEE IN VICINITY OF NORTH END OF TUNNEL SHALL BE CONSTRUCTED AFTER TUNNEL AND PIPE INSTALLATION ARE COMPLETED.
4. FOR TYPICAL LEVEE SECTION SEE DRAWING NO.16/51.

Revisions			
Symbol	Descriptions	Date	Approved

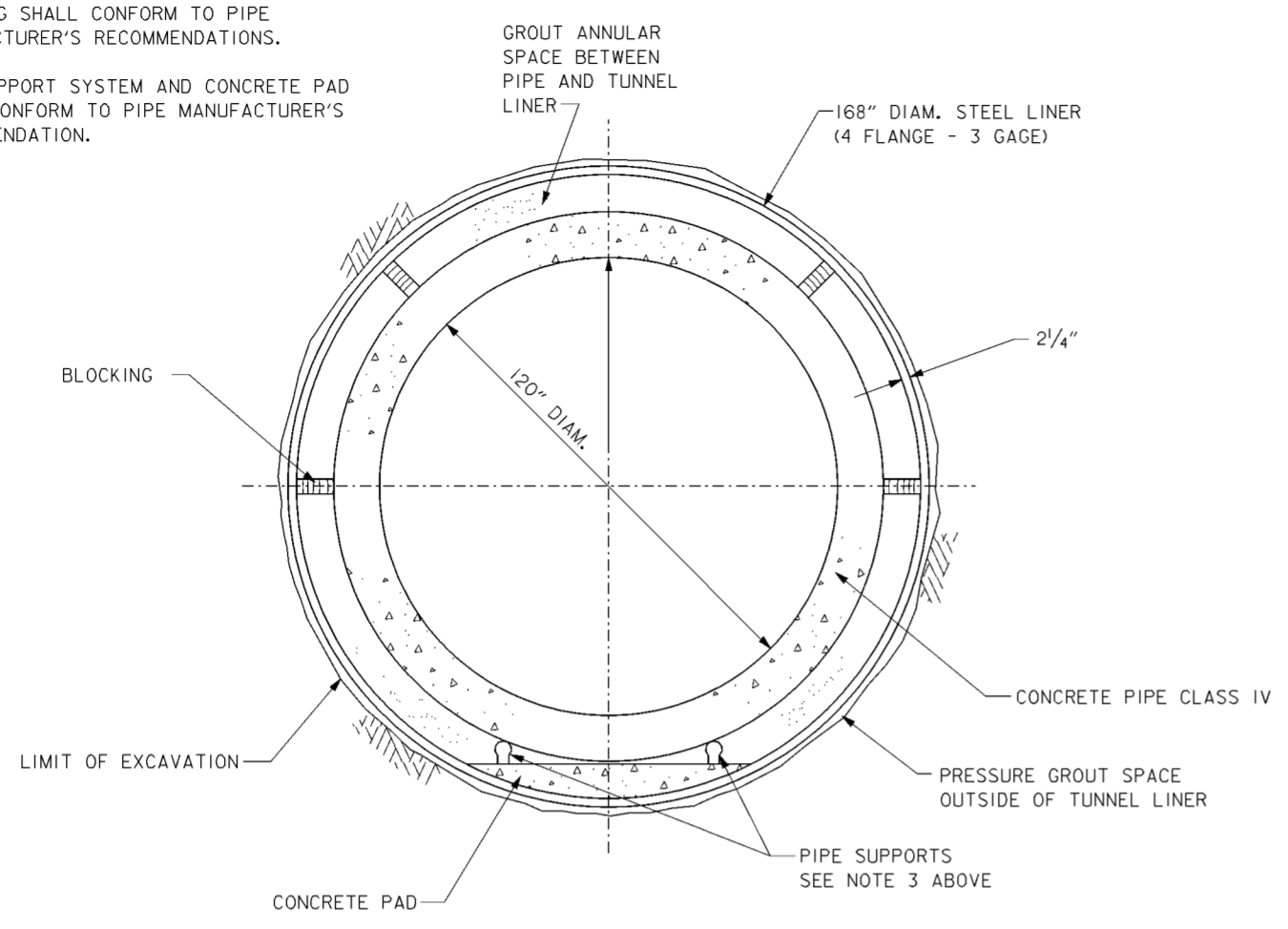
  

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>FRANK RD TUNNEL</b> <b>PLAN AND PROFILE</b>	
Designed by: <b>J. HALL</b>	Drawn by: <b>T. MULLINS</b>	Checked by: <b>V. AMATO</b>	Reviewed by: AS SHOWN Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Approved by:		Sheet reference number: <b>20.3/8</b>	FILENAME: 00rpp01.dgn PEN TABLE: Sheet <b>1</b> of <b>1</b>

**WORK AS CONSTRUCTED**

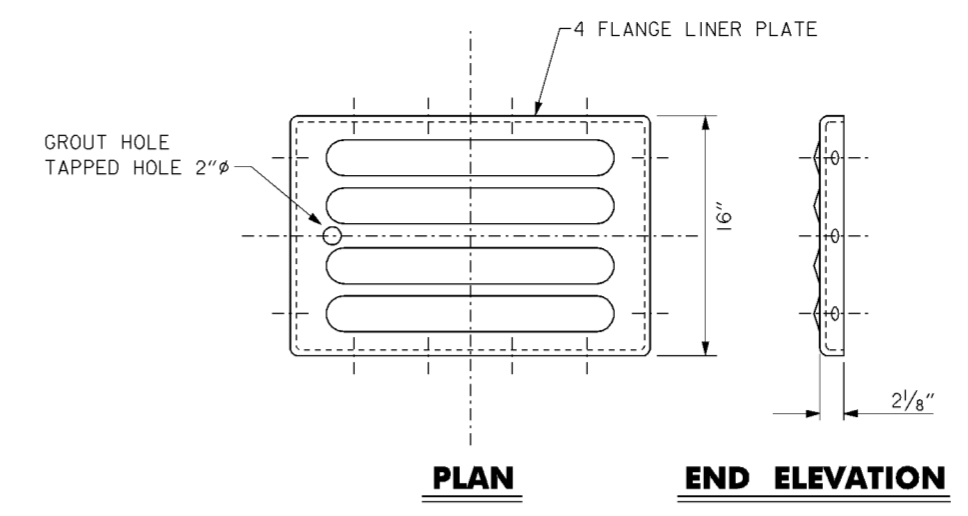


- NOTES: 1. PROVIDE BLOCKING AND PIPE SUPPORTS TO MAINTAIN PIPE POSITION/ALIGNMENT DURING JACKING AND GROUTING.
2. BLOCKING SHALL CONFORM TO PIPE MANUFACTURER'S RECOMMENDATIONS.
3. PIPE SUPPORT SYSTEM AND CONCRETE PAD SHALL CONFORM TO PIPE MANUFACTURER'S RECOMMENDATION.

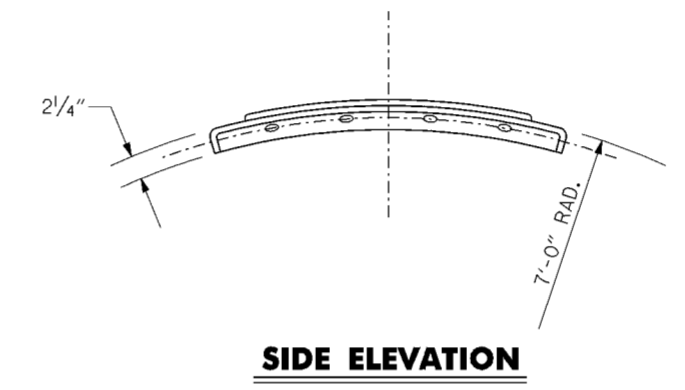


**TYPICAL TUNNEL SECTION**

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



**PLAN**      **END ELEVATION**



**SIDE ELEVATION**

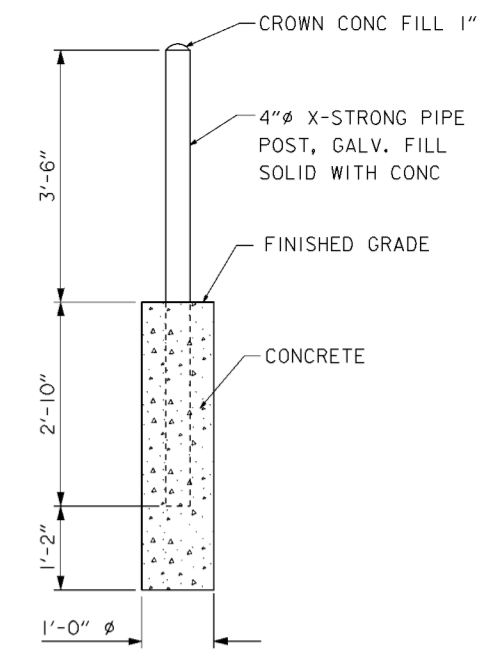
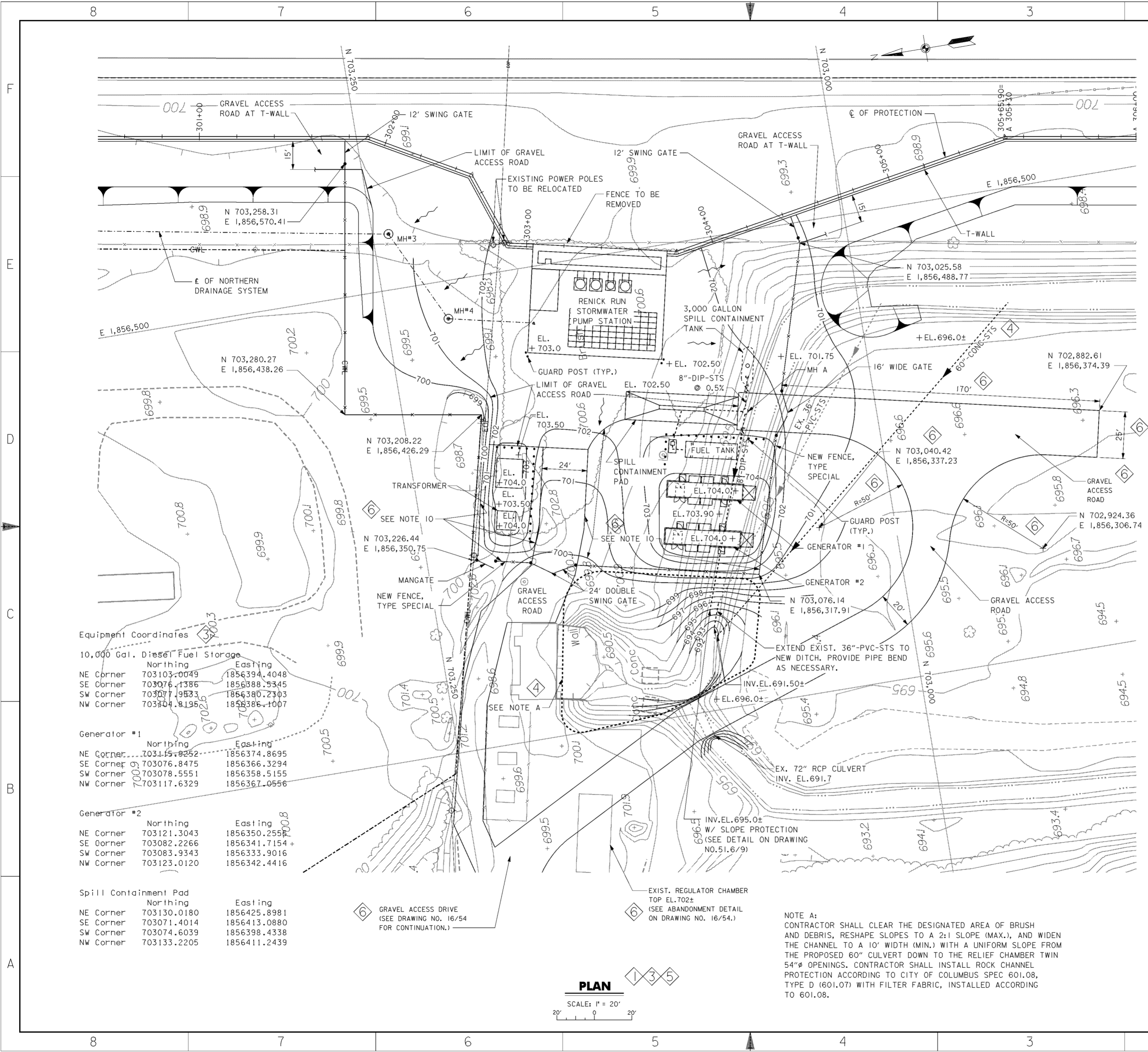
**TUNNEL LINER DETAILS AND NOTES**

**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: 81,000 POUNDS/ft.
- BOLTS:** ASTM A 307, GRADE A
- NUTS:** ASTM A 307, GRADE A
- DIMENSIONS:**
- THICKNESS:** 3 GAGE MINIMUM
- DEPTH:** 2 1/4 INCHES (SIDES)  
 2 1/8 INCHES (ENDS)
- WIDTH:** 16 INCHES
- BOLTS:** (SIDES 4) 5/8" ø  
 (ENDS 3) 3/6" ø
- SECTION PROPERTIES**
- EFFECTIVE AREA:** 1.7976 in<sup>2</sup>/ft
- RADIUS OF GYRATION:** =0.4725 in/ft
- MOMENT OF INERTIA:** =1.4363 in<sup>4</sup>/ft
- GROUT HOLES:**  
 2" DIA. TAPPED WITH PLUG

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>C. FITZSIMONS/J. HALL</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>A. PUMMELL</b>	<b>FRANK ROAD TUNNEL</b> <b>DETAILS</b>
Checked by: <b>L. LINZELL/V. AMATO</b>	Reviewed by: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
Scale: <b>AS SHOWN</b>	Sheet reference number: <b>20.39</b>
FILENAME: PEN TABLE: 00mtd01.dgn	Sheet <b>1</b> of <b>1</b>



**MANHOLE SCHEDULE**

MARK	TC ELEV	INLET/OUTLET SIZE	DIRECTION	INV.
MH-A	702.40	8"	W	698.50
		8"	E	698.50
		8"	N	699.40

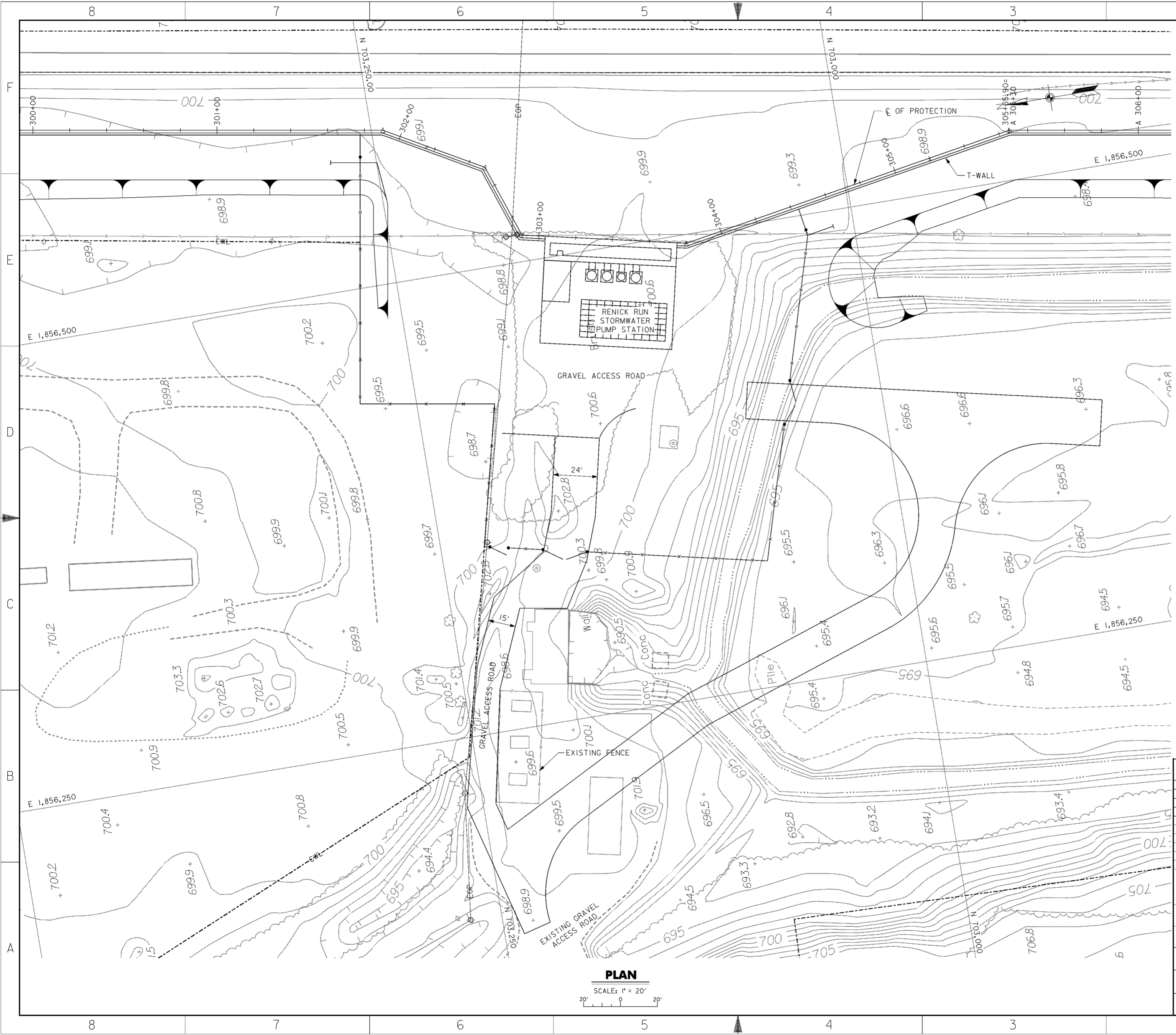
**NOTES**

- FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
- FOR RIGHT OF WAY SEE DRAWING NOS. 6/6 THRU 6/9.
- FOR PUMP STATION GRAVEL ACCESS ROAD AND ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 51.1/2.
- FOR GRAVEL ACCESS ROAD AT T-WALL SEE DRAWING NO. 16/50.
- FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
- FOR LOCATION OF EXISTING SANITARY AND STORM SEWERS SEE DRAWING NO. 15.3/1.
- BACKFILL AND GRADING. CONTRACTOR SHALL REMOVE EXISTING FILL MATERIALS WITHIN AND AROUND THE DRAINAGE DITCH AND INSTALL SUITABLE BACKFILL IN ACCORDANCE WITH CMSC ITEM 203.08 AND COMPACTED IN ACCORDANCE WITH CMSC 203.12.
- FOR GRAVEL ACCESS ROAD DETAILS SEE DRAWING NO. 16/54.
- FOR SPILL CONTAINMENT PAD AND TANK DETAILS SEE DRAWING NO. 51.6/9.
- CONTRACTOR SHALL RAISE THE RENICK RUN GENERATOR, TRANSFORMER, AND SWITCHGEAR PADS AS SHOWN INCLUDING ALL EXISTING ELECTRICAL CONDUITS.
- PLACE 6" OF AASHTO #57 CRUSHED STONE OVER COMPACTED SUBGRADE IN ACCORDANCE WITH ODOT ITEM 203, AROUND TRANSFORMERS, GENERATOR PADS AND FUEL TANK.

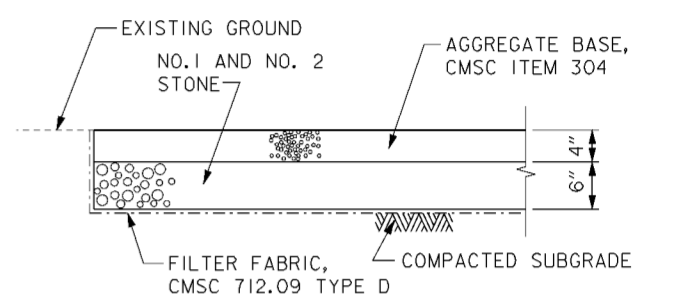
Symbol	Revisions Descriptions	Date	Approved
Ⓢ	REV. BY CONTRACT MODIFICATION LETTER MC088	8/04	B.W.T.
Ⓢ	REV. BY CONTRACT MODIFICATION LETTER MC069	3/04	P.O.C.
Ⓢ	REV. BY CONTRACT MODIFICATION LETTER MC060	9/03	P.O.C.
Ⓢ	REV. BY CONTRACT MODIFICATION LETTER MC050	5/03	P.O.C.
Ⓢ	REVISED AS CONSTRUCTED	3/03	P.O.C.
Ⓢ	REV. BY CONTRACT MODIFICATION LETTER MC002	6/01	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B.TORNES</b>	Drawn by: <b>T.MULLINS</b>	<b>SCIOTO RIVER</b> <b>COLUMBUS, OHIO</b> <b>WEST COLUMBUS, L.P.P.</b> <b>PHASE III</b> <b>PUMP STATION</b> <b>SITE PLAN</b>	
Checked by: <b>P.CONROY</b>	Reviewed by:		
Approved by:	Scale: <b>AS SHOWN</b>		
	Date: <b>OCTOBER 2000</b>		
	Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>51.1/1</b>	FILENAME: c0p1p101.dgn
			PIN TABLE:
			Sheet 1 of 1

**NOTE A:**  
CONTRACTOR SHALL CLEAR THE DESIGNATED AREA OF BRUSH AND DEBRIS, RESHAPE SLOPES TO A 2:1 SLOPE (MAX.), AND WIDEN THE CHANNEL TO A 10' WIDTH (MIN.) WITH A UNIFORM SLOPE FROM THE PROPOSED 60" CULVERT DOWN TO THE RELIEF CHAMBER TWIN 54" Ø OPENINGS. CONTRACTOR SHALL INSTALL ROCK CHANNEL PROTECTION ACCORDING TO CITY OF COLUMBUS SPEC 601.08, TYPE D (601.07) WITH FILTER FABRIC, INSTALLED ACCORDING TO 601.08.



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



**PUMP STATION - GRAVEL ACCESS ROAD TYPICAL SECTION**

SCALE: 1" = 1'

**LEGEND**

— EOP — EXISTING OVERHEAD POWER

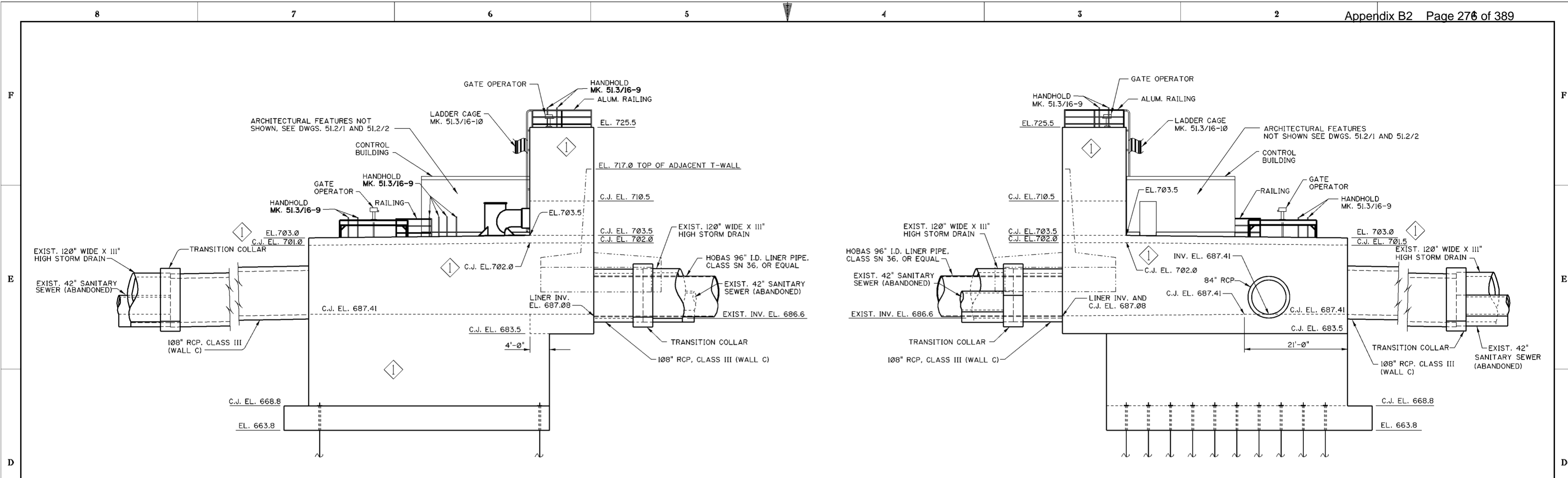
**NOTES**

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4
2. FOR RIGHT-OF-WAY SEE DRAWING NOS. 6/6 THRU 6/9.
3. FOR PUMP STATION SITE PLAN SEE DRAWING NO. 51.1/1.
4. FOR SCIOTO MAIN SANITARY SEWER SEE DRAWING NOS. 15.2/4 THRU 15.2/10.
5. FOR LOCATION OF EXISTING SANITARY AND STORM SEWERS SEE DRAWING NO. 15.3/1.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA	
Designed by:	J. HALL	<b>SCIOTO RIVER</b> COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>PUMP STATION</b> <b>ACCESS ROAD</b>	
Drawn by:	T. MULLINS		
Checked by:	P. CONROY		
Reviewed by:	AS SHOWN		
Approved by:	OCTOBER 2000		
Drawing Code:	016-PWC-13	Sheet reference number:	51.12
FILENAME: aap1p102.dgn		PIN TABLE:	
Sheet 1 of 1		Sheet 1 of 1	

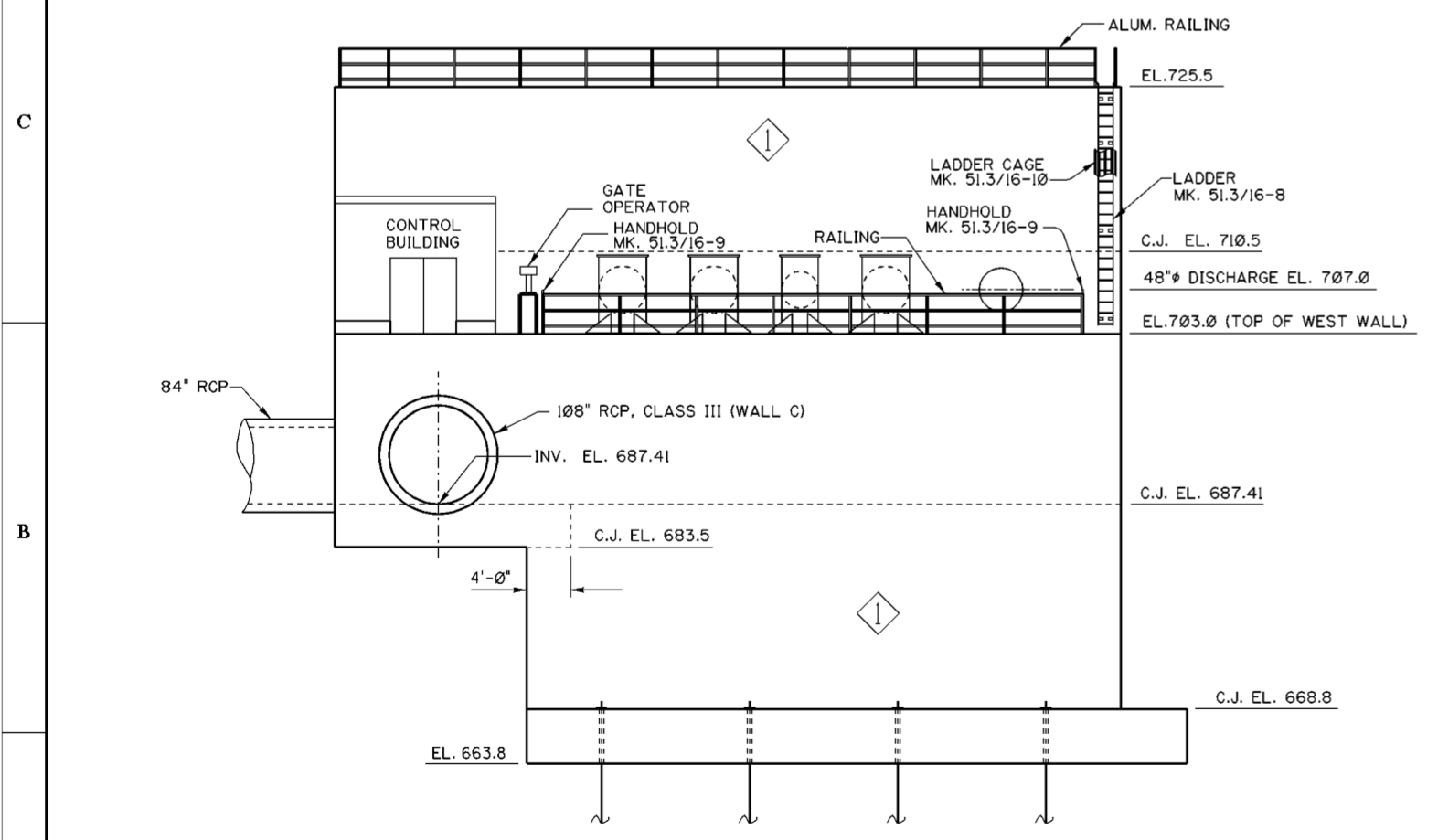
**WORK AS CONSTRUCTED**



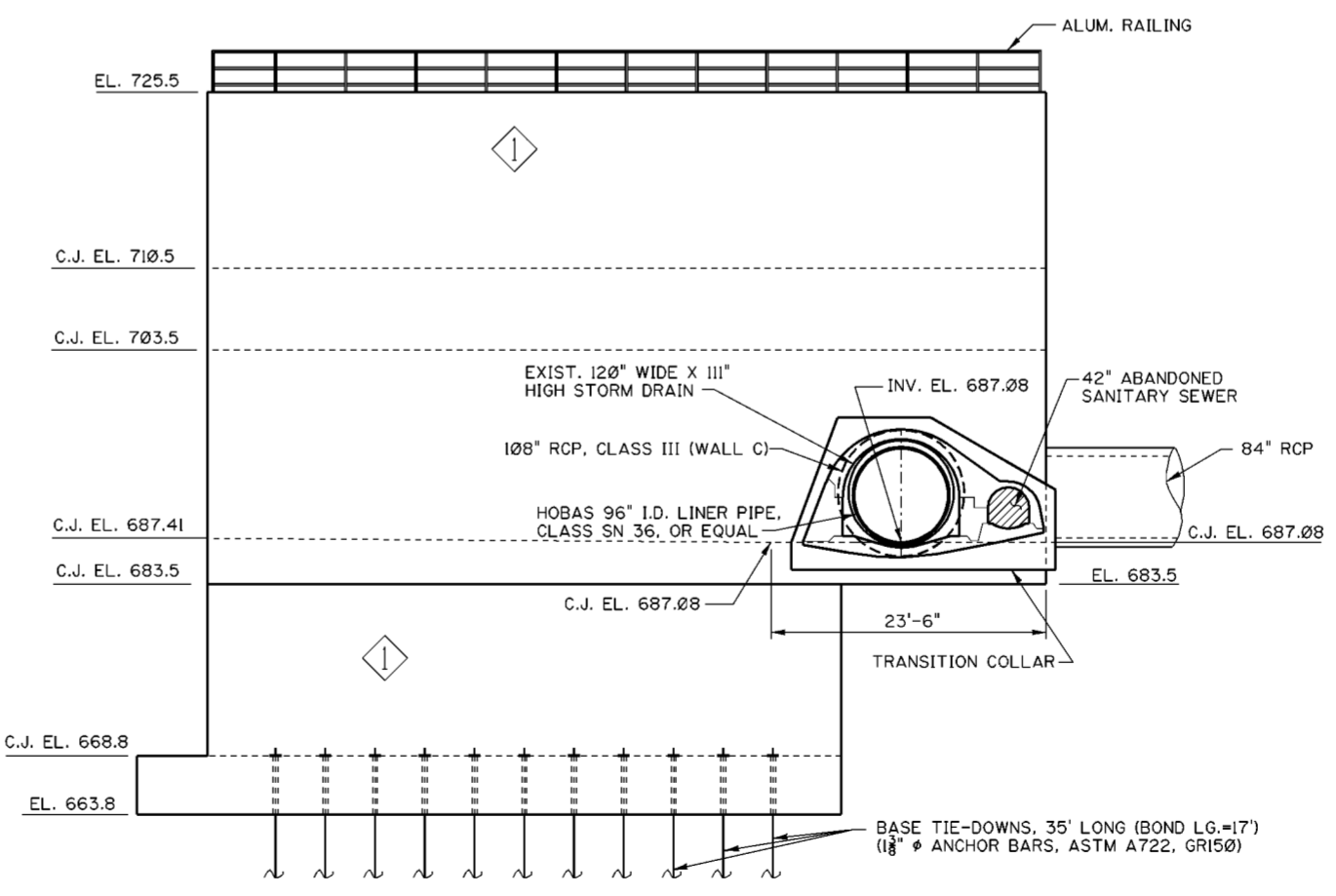
**SOUTH ELEVATION**

12' 0" 4' 8' 12' 16' 20'  
SCALE: 1/8"=1'-0"

**NORTH ELEVATION**



**WEST ELEVATION**



**EAST ELEVATION**

**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20/1/1.
3. FOR REINFORCEMENT SEE DWGS. 51.3/1 THRU 51.3/10.
4. FOR CONTROL BUILDING ARCHITECTURAL DETAILS AND LAYOUT, SEE DWGS. 51.2/1 AND 51.2/2.
5. FOR GRATING DETAILS SEE DWG. 51.3/15.
6. FOR LADDER AND RAILING DETAILS SEE DWG. 51.3/16.
7. FOR SPACING AND DETAILS OF BASE TIE-DOWN ANCHORS, SEE DWG. 51.3/1.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

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

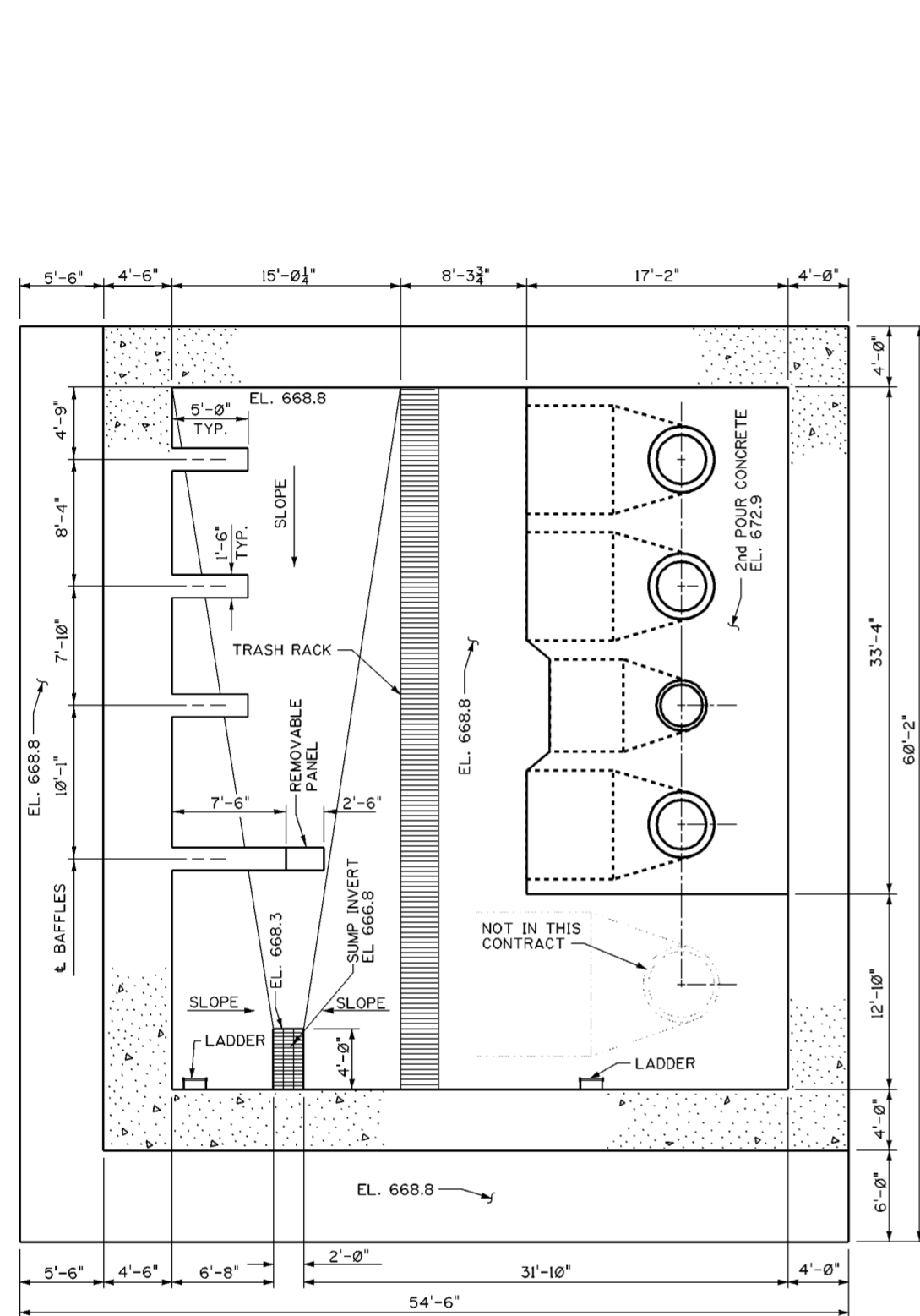
Designed by: M.B.S.  
Drawn by: L.E.W.  
Checked by: M.B.S.  
Reviewed by:  
Approved by:

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

**PUMP STATION  
ELEVATIONS**

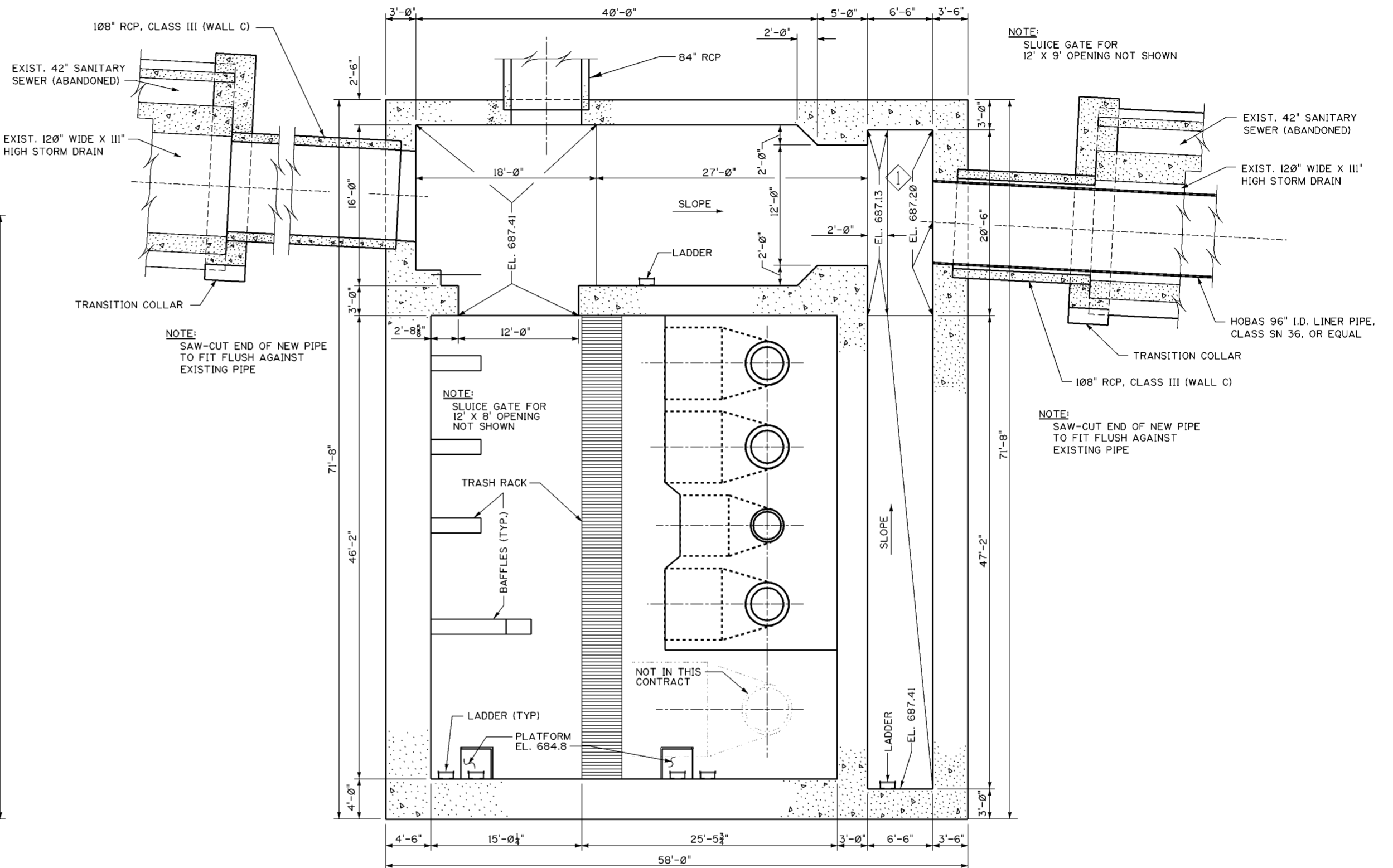
Scale: AS SHOWN  
Date: MARCH 2000  
Drawing Code: O16-PWC-13

Sheet reference number: 51.1/3  
FILENAME: a0951L3.dgn  
PEN TABLE:  
Sheet of



**PLAN AT ELEV. 683.0**

12' 0" 2' 4' 6' 8' 10' 12' 14'  
SCALE: 1/8"=1'-0"



**PLAN AT ELEV. 691.0**

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

**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1.
3. FOR REINFORCEMENT SEE DWGS. 51.3/1 THRU 51.3/10
4. FOR LADDER AND RAILING DETAILS SEE SHEET 51.3/16.
5. CONCRETE OF EXIST. 120" X 111" STORM DRAIN SHALL BE GROUND SMOOTH WHERE IT COMES IN CONTACT WITH NEW 108" RCP.
6. AFTER PLACING TRANSITION COLLAR (DWG 51.3/6), JOINT BETWEEN EXIST. STORM DRAIN AND 108" RCP SHALL BE PRESSURE GROUTED FROM INSIDE WITH SIKAFIX HH MANUFACTURED BY SIKA OR EQUAL. GROUTING SHALL BE PER THE MANUFACTURER'S INSTRUCTIONS.
7. FOR BAFFLE DETAILS SEE DWG. 51.3/17.

NOTE:  
SLUICE GATE FOR  
12' X 9' OPENING NOT SHOWN

NOTE:  
SAW-CUT END OF NEW PIPE  
TO FIT FLUSH AGAINST  
EXISTING PIPE

NOTE:  
SLUICE GATE FOR  
12' X 8' OPENING  
NOT SHOWN

NOTE:  
SAW-CUT END OF NEW PIPE  
TO FIT FLUSH AGAINST  
EXISTING PIPE

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

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

Designed by: M.B.S.  
Drawn by: L.E.W.  
Checked by: M.B.S.  
Reviewed by: AS SHOWN  
Approved by: MARCH 2000

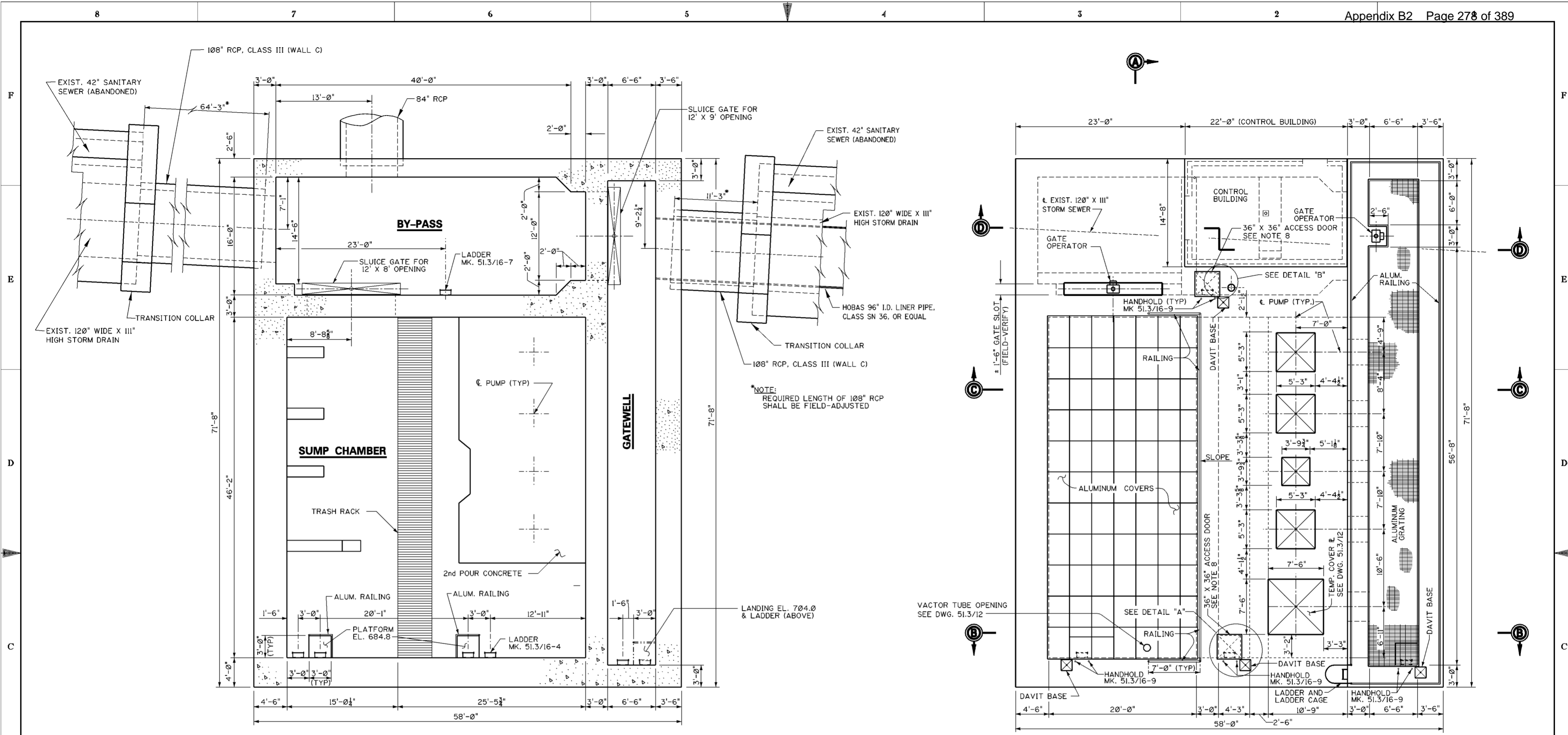
**SCIOTO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE IIIB**

**PUMP STATION PLANS  
(SHEET 1 OF 2)**

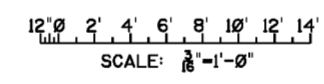
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PEN TABLE:

Sheet of

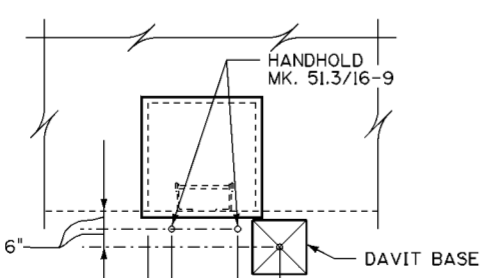


**PLAN AT ELEV. 698.0**

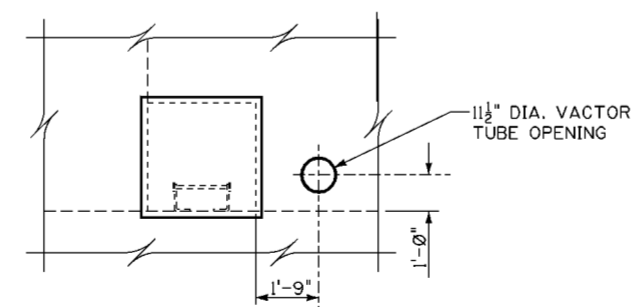


**PLAN AT ELEV. 725.5**

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



**DETAIL "A"**  
SCALE: 3/8"=1'-0"



**DETAIL "B"**  
SCALE: 3/8"=1'-0"

NOTE: POSITION OF HANDHOLDS AND DAVIT BASE AT SOUTH-WEST CORNER OF PUMP STATION IS OPPOSITE HAND OF THAT SHOWN IN DETAIL "A"

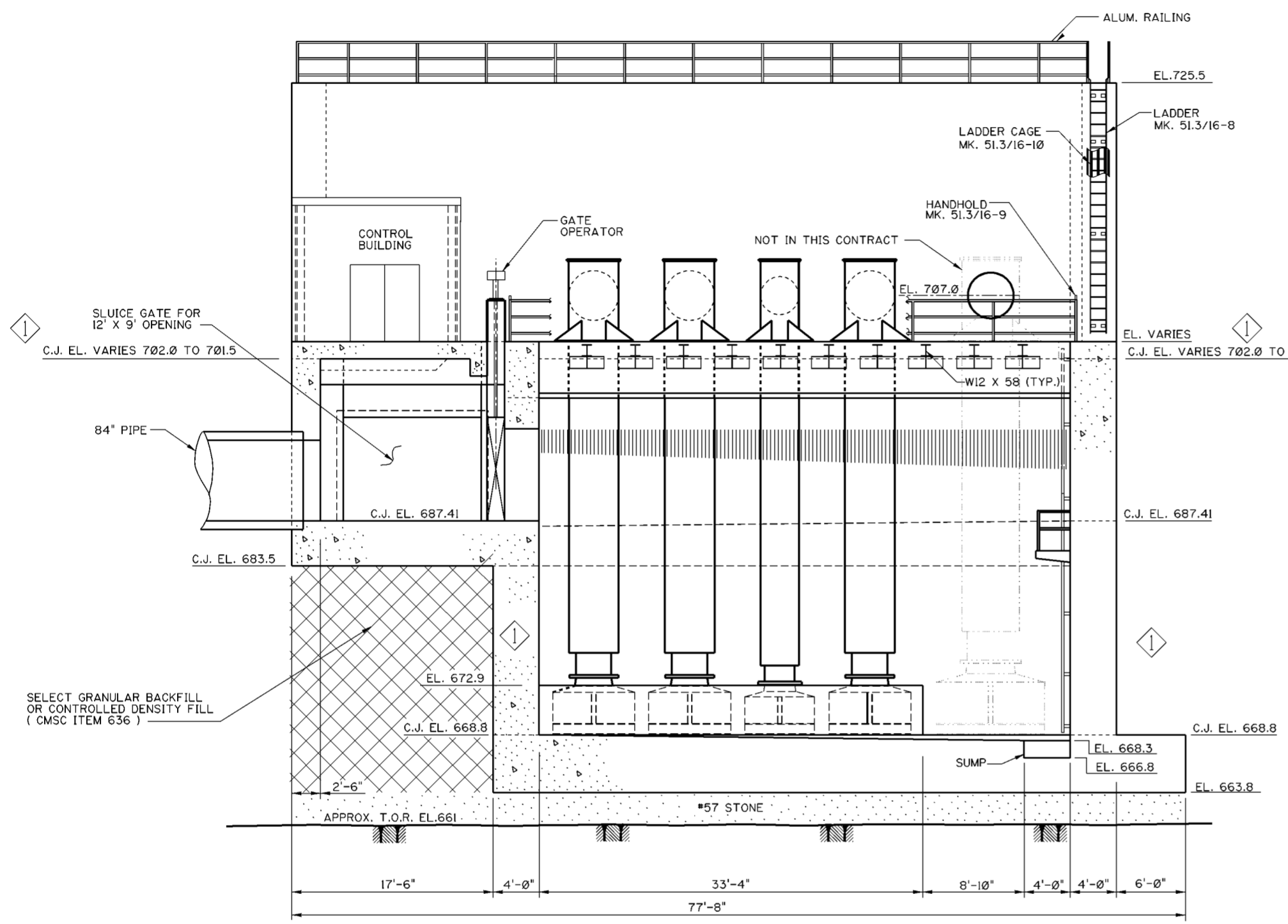
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1.
3. FOR REINFORCEMENT SEE DWG. 51.3/1 THRU 51.3/10.
4. FOR SECTIONS A-A & B-B, SEE DWG. 51.1/6 AND FOR SECTIONS C-C & D-D, SEE DWG. 51.6/7
5. FOR CONTROL BUILDING ARCHITECTURAL DETAILS AND LAYOUT, SEE DWGS. 51.2/1 AND 51.2/2 .
6. FOR GRATING DETAILS SEE DWG. 51.3/15.
7. FOR LADDER AND RAILING DETAILS SEE DWG. 51.3/16.
8. ACCESS DOORS AND FRAMES SHALL BE ALUMINUM, TYPE J H-20, AS MANUFACTURED BY BILCO COMPANY OR EQUAL. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
9. FOR TRANSITION COLLAR DETAILS SEE DWG. 51.3/6.

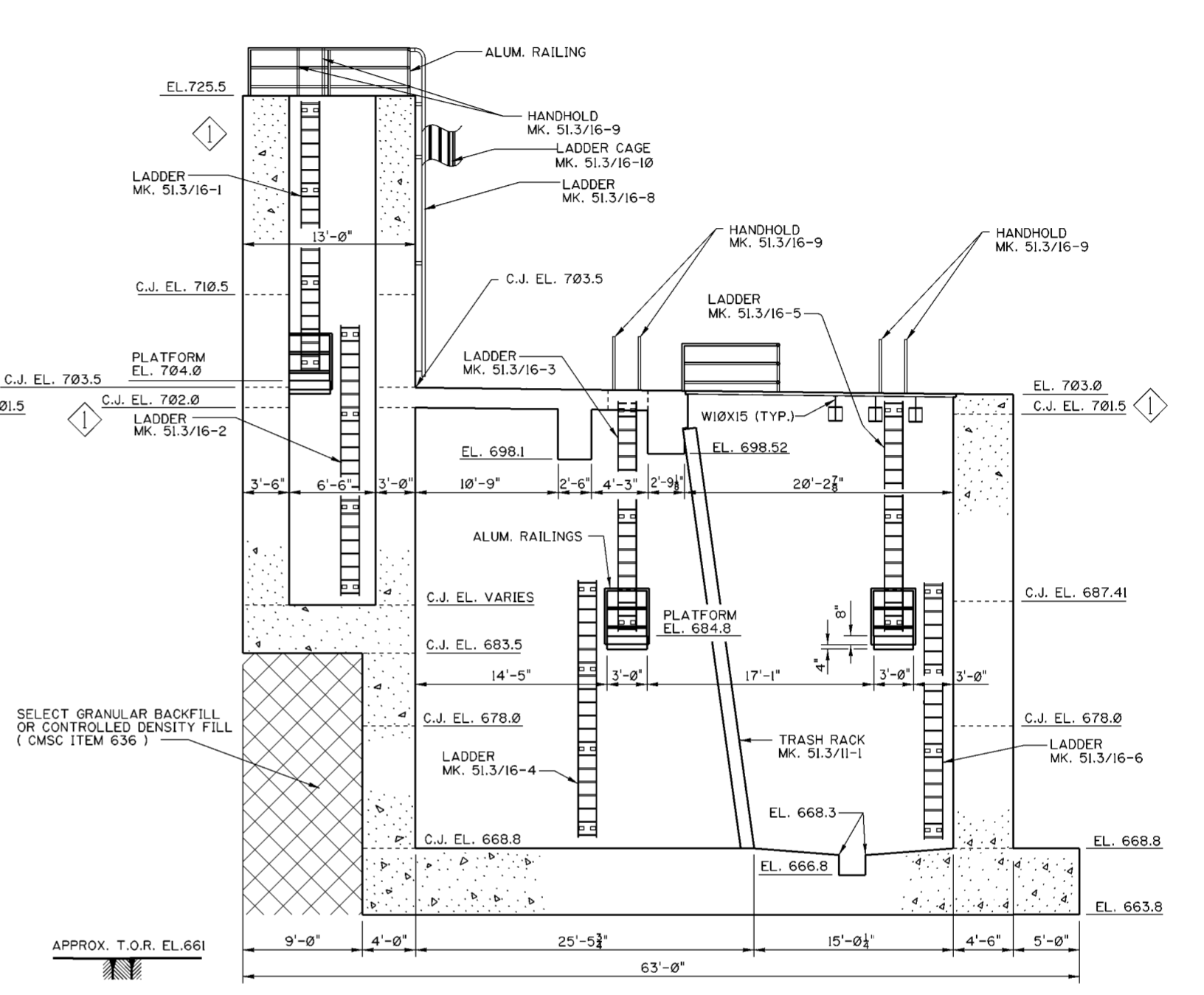
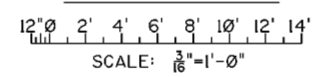
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	Drawn by: L.E.W.	Checked by: M.B.S.	Reviewed by: AS SHOWN
SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B		<b>PUMP STATION PLANS</b> <b>(SHEET 2 OF 2)</b>	
Approved by:	Date: MARCH 2000	Sheet reference number: 51.1/5	FILENAME: PEN TABLE: 51L_5.dgn
Drawing Code: O16-PWC-13		51.1/5	Sheet of



**SECTION A-A**



**SECTION B-B**

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

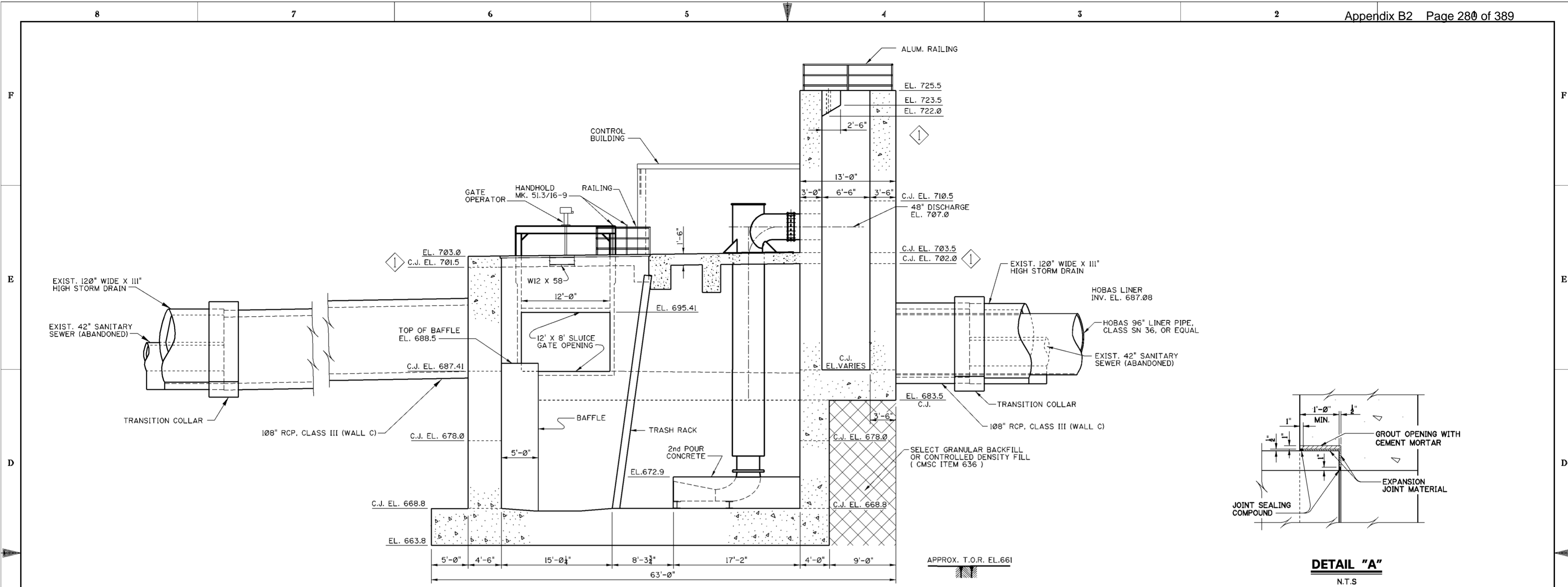
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1.
3. FOR REINFORCEMENT SEE DWG. 51.3/1 THRU 51.3/10.
4. FOR LOCATIONS OF SECTIONS A-A AND B-B, SEE DWG. 51.1/5.
5. FOR CONTROL BUILDING ARCHITECTURAL DETAILS AND LAYOUT, SEE DWGS. 51.2/1 AND 51.2/2.
6. FOR PUMP STATION PLANS SEE DWG. 51.1/4 AND 51.1/5.
7. FOR LADDER AND RAILING DETAILS SEE DWG. 51.3/16.
8. FOR TRASH RACK DETAILS SEE DWG. 51.3/11.

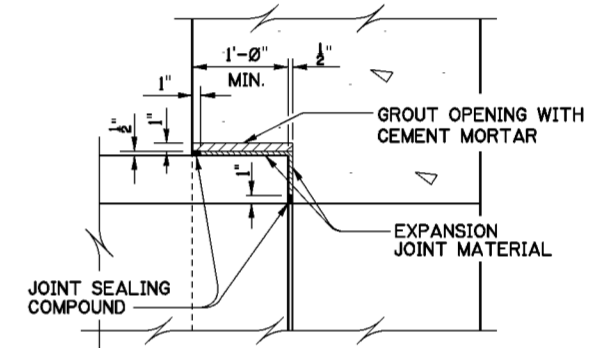
Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

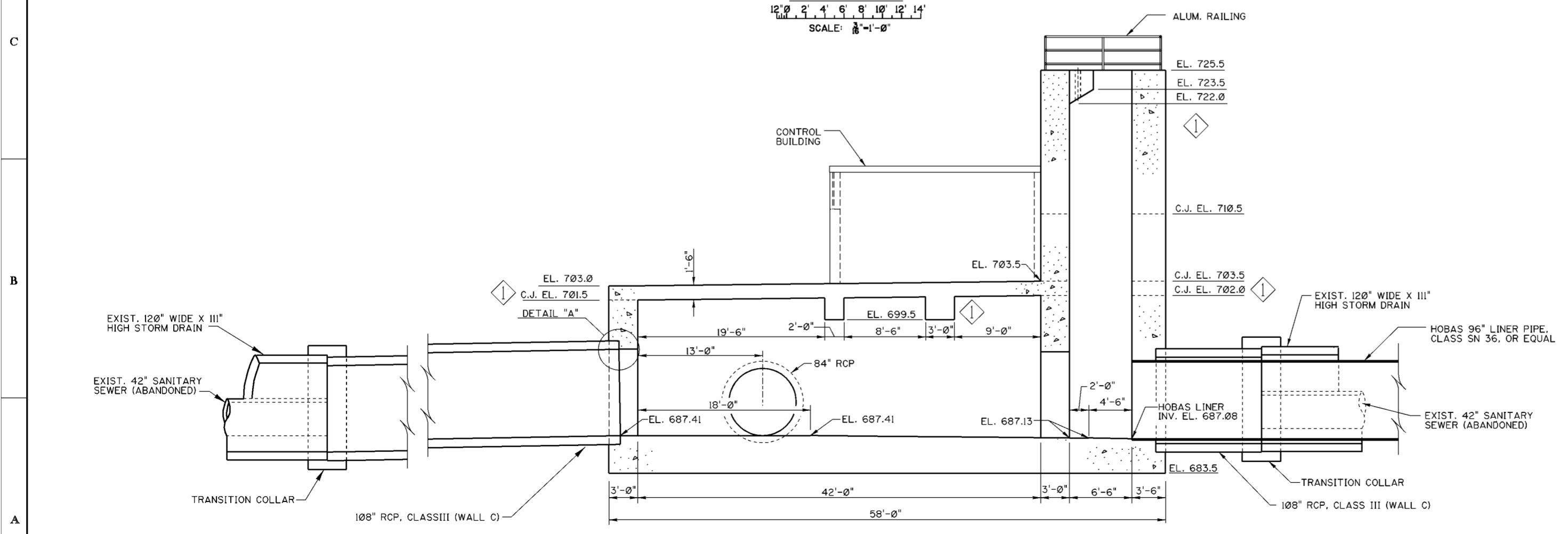
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.		<b>PUMP STATION SECTIONAL ELEVATIONS (SHEET 1 OF 2)</b>
Drawn by:	L.E.W.		
Checked by:	M.B.S.		
Reviewed by:		Scale: AS SHOWN	Sheet reference number:
Approved by:		Date: MARCH 2000	FILENAME: PEN TABLE: a0951L6.dgn
	Drawing Code: 016-PWC-13	51.1/6	Sheet of



**SECTION C-C**  
 SCALE: 1/8" = 1'-0"



**DETAIL "A"**  
 N.T.S.



**SECTION D-D**  
 SCALE: 1/8" = 1'-0"

**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1.
3. FOR REINFORCEMENT SEE DWG. 51.3/1 THRU 51.3/10.
4. FOR LOCATIONS OF SECTIONS C-C AND D-D, SEE DWG. 51.1/5.
5. FOR CONTROL BUILDING ARCHITECTURAL DETAILS AND LAYOUT, SEE DWGS. 51.2/1 AND 51.2/2.
6. FOR PUMP STATION PLANS SEE DWG. 51.1/4 AND 51.1/5.
7. FOR LADDER AND RAILING DETAILS SEE DWG. 51.3/16.
8. FOR TRASH RACK DETAILS SEE DWG. 51.3/11.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

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

Designed by: M.B.S.  
 Drawn by: L.E.W.  
 Checked by: M.B.S.  
 Reviewed by: \_\_\_\_\_  
 Approved by: \_\_\_\_\_

**SCIO TO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS L.P.P.  
 PHASE III  
 PUMP STATION  
 SECTIONAL ELEVATIONS  
 (SHEET 2 OF 2)**

Scale: AS SHOWN  
 Date: MARCH 2000  
 Drawing Code: O16-PWC-13

Sheet reference number: 51.1/7  
 FILENAME: a051L7.DGN  
 PEN TABLE:  
 Sheet of \_\_\_\_\_

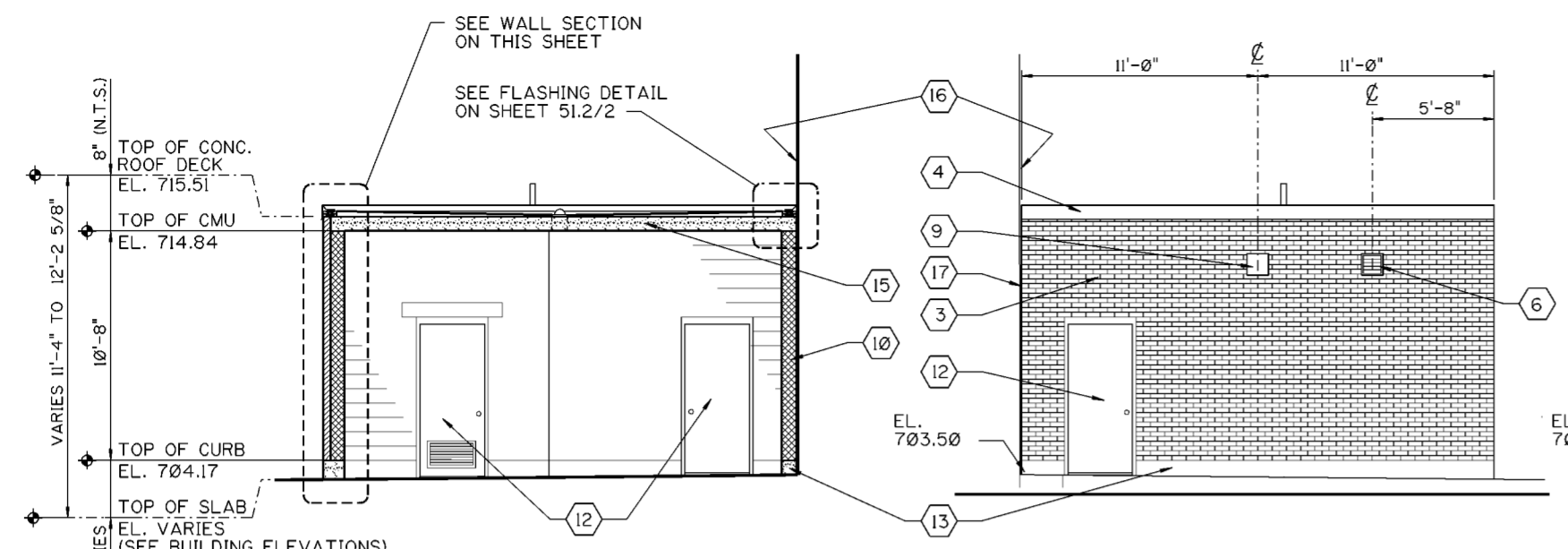


**CODED NOTES**

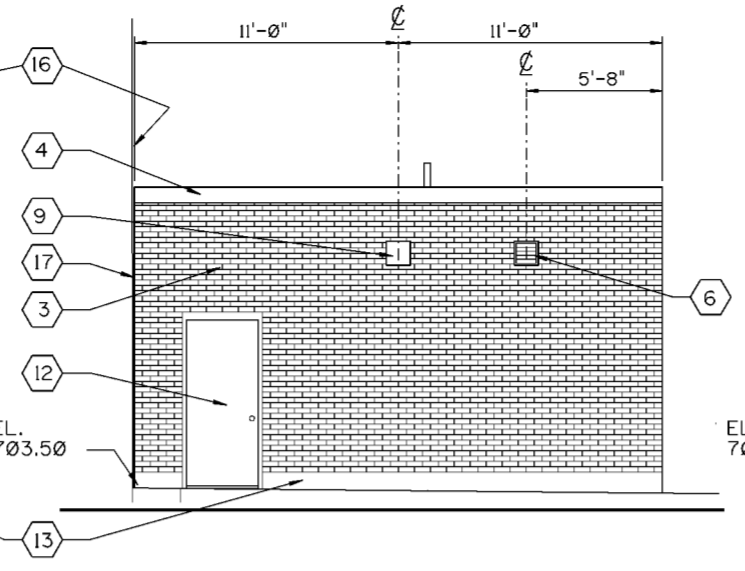
- 1 VENT THRU ROOF - SEE DETAIL ON SHEET 51.2/2
- 2 4" ROOF DRAIN - SEE DETAIL ON SHEET 51.2/2
- 3 BRICK: BELDEN 470-479 DARK (IRONSPOT) COLOR INDICATED IS FOR IDENTIFICATION PURPOSES ONLY AND IS NOT INTENDED TO LIMIT SELECTION OF A SIMILAR COLOR FROM ANOTHER MANUFACTURER.
- 4 STAINLESS STEEL GRAVEL STOP/FASCIA
- 5 EPDM ROOFING SYSTEM ON TAPERED ROOF INSULATION ROOF SLOPE - 1/4" PER FOOT
- 6 WALL LOUVER - SEE MECHANICAL DRAWINGS FOR SIZE.
- 7 10 LB. UL LISTED MULTI-PURPOSE FIRE EXTINGUISHER WITH WALL BRACKET
- 8 8" X 8" BLOCK VENT - LOCATE AS SHOWN SEE MECHANICAL SHEET 51.4/1.
- 9 LIGHT FIXTURE - TOP MOUNTED AT 9'-8" ABOVE CONCRETE CURB
- 10 8" REINFORCED CMU - SEE STRUCTURAL DRAWING 51.3/10
- 11 PLAQUE - TOP MOUNTED @ 5'-3" ABOVE CONCRETE CURB
- 12 STEEL DOOR AND FRAME - SEE DOOR SCHEDULE ON SHEET 51.2/2
- 13 CONCRETE CURB - TYP. @ ALL INTERIOR AND EXTERIOR WALLS - SEE STRUCTURAL DRAWING 51.3/10
- 14 METAL FLASHING - SEE DETAIL ON SHEET 50.2/2
- 15 8" CONCRETE SLAB - SEE STRUCTURAL DRAWING 51.3/10
- 16 FACE OF OUT FALL WALL
- 17 BACKER ROD AND SEALANT (TYP. @ NORTH AND SOUTH ELEVATIONS)
- 18 REGLET CAST INTO OUT FALL WALL

**GENERAL NOTES**

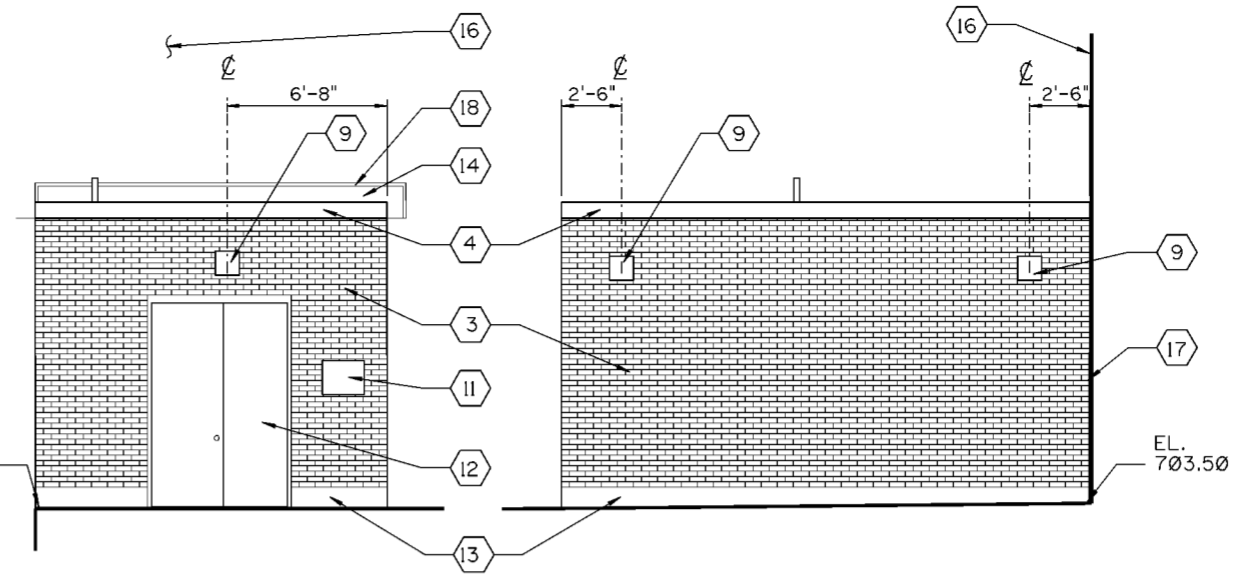
1. ALL DIMENSIONS ARE TO FACE OF MASONRY.
2. PAINT ALL INTERIOR EXPOSED MASONRY WALLS.
3. INSTALL VINYL COMPOSITION FLOOR TILE AND 4" VINYL COVE BASE IN TOILET ROOM.
4. APPLY SEALING AND CURING COMPOUND TO CONCRETE FLOOR IN CONTROL ROOM.
5. APPLY ANTI-GRAFFITI COATING TO FACE BRICK.
6. SEE STRUCTURAL DWG. 51.3/10 FOR REINFORCING IN CONCRETE CURB, MASONRY WALLS AND CONCRETE ROOF DECK.
7. SEE SHEET 51.2/2 FOR DOOR SCHEDULE AND DETAILS



**BUILDING SECTION A-A**  
SCALE: 1/4" = 1'-0"

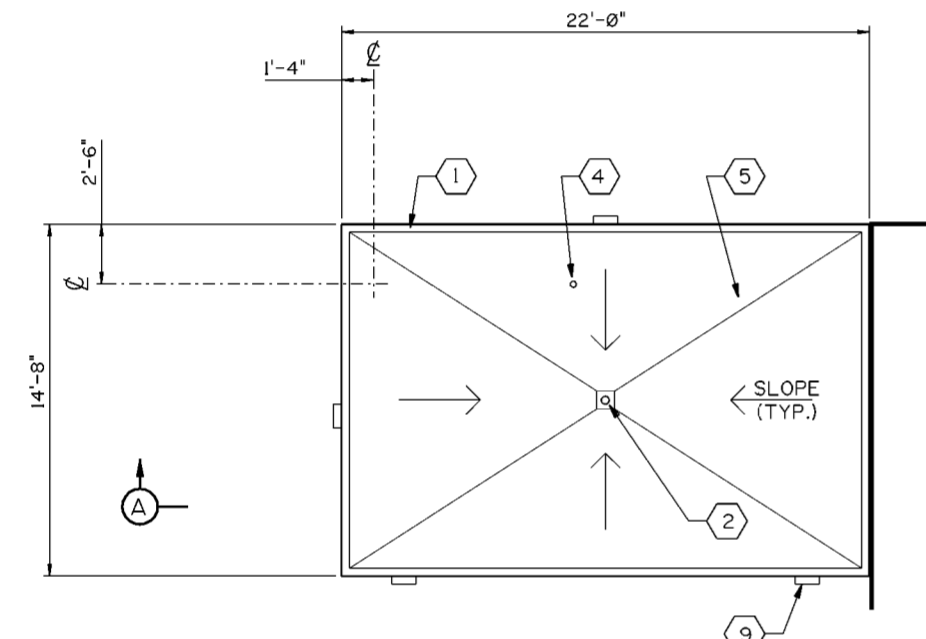


**NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"

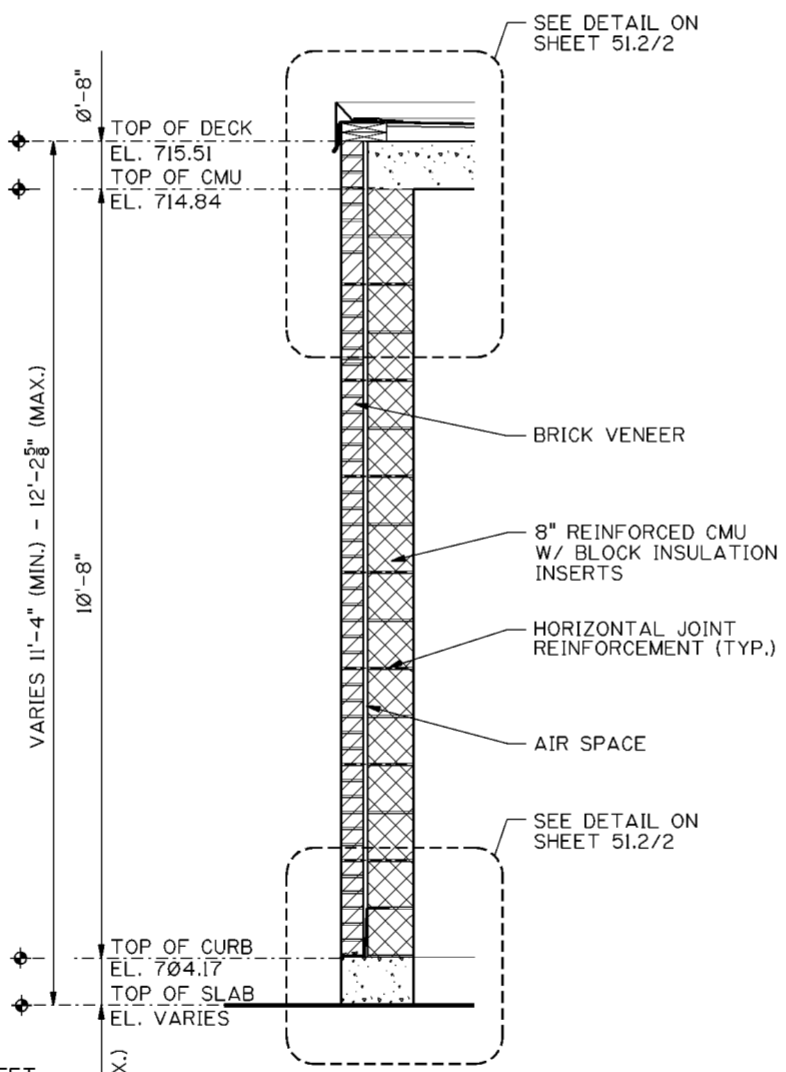


**WEST ELEVATION**  
SCALE: 1/4" = 1'-0"

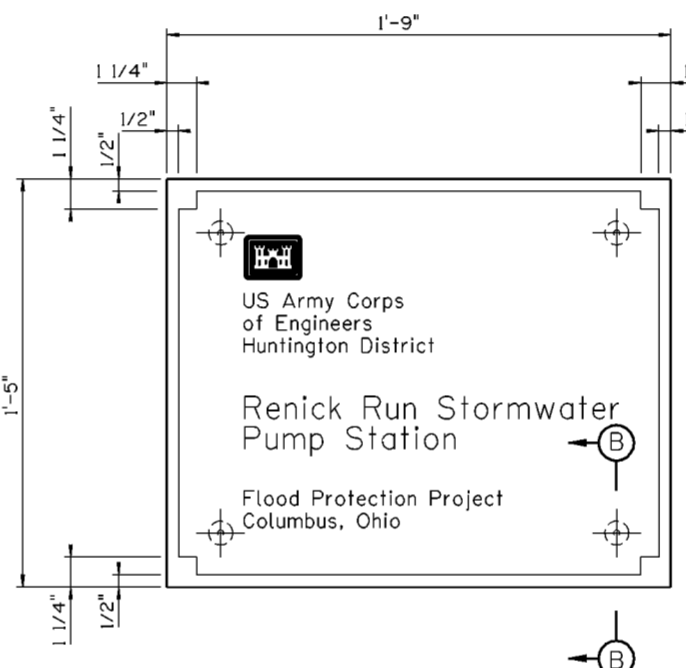
**SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"



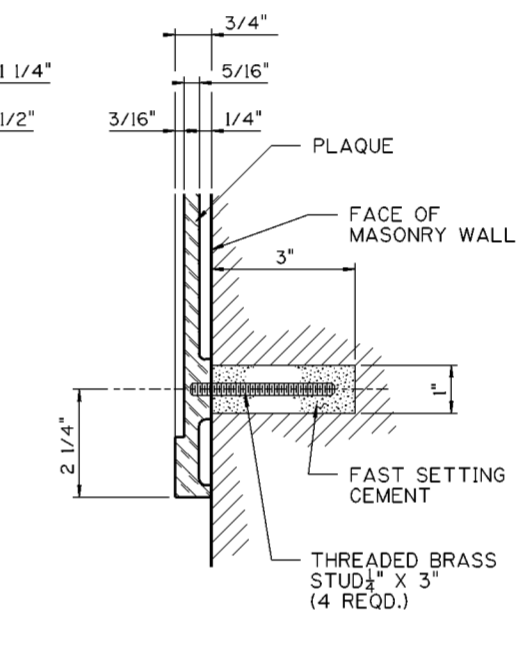
**ROOF PLAN**  
SCALE: 1/4" = 1'-0"



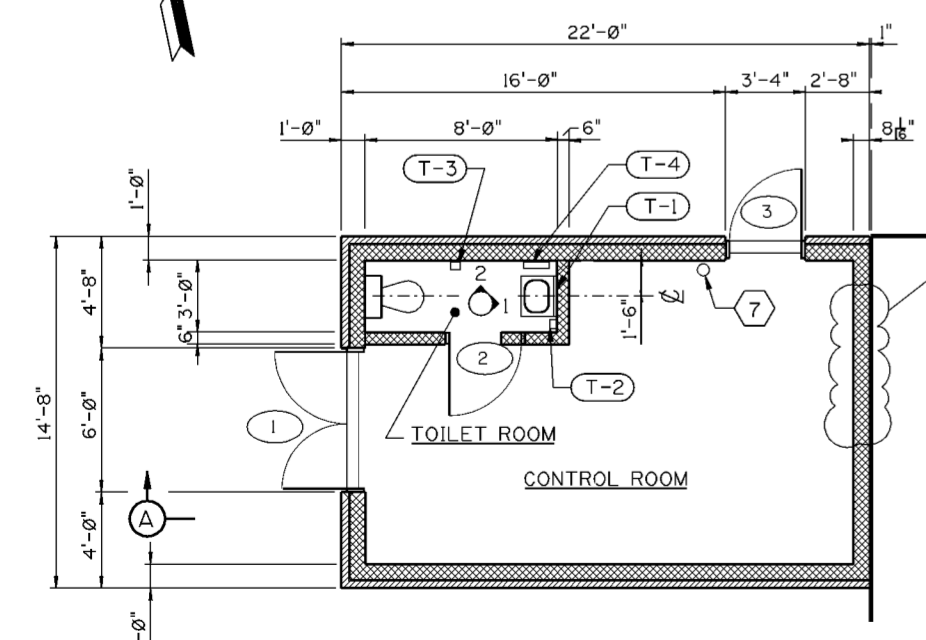
**1 WALL SECTION**  
51.2/1 SCALE: 1/4" = 1'-0"



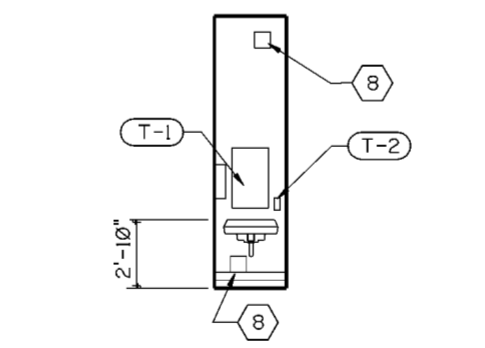
**PLAQUE ELEVATION**  
SCALE: 3/4" = 1'-0"



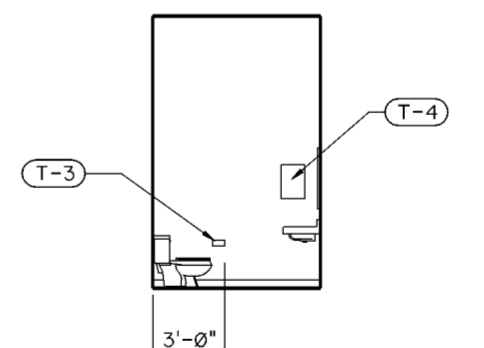
**PLAQUE MOUNTING DETAIL B-B**  
SCALE: 6" = 1'-0"



**CONTROL BUILDING FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**INTERIOR ELEVATION '1'**  
SCALE: 1/4" = 1'-0"



**INTERIOR ELEVATION '2'**  
SCALE: 1/4" = 1'-0"

**TOILET ACCESSORY SCHEDULE**

MARK	IDENTIFYING ABBREVIATION	DESCRIPTION	MOUNTING HEIGHT	REMARKS
T-1	MG	18"x30" MIRROR	40" A.F.F.	TO BOTTOM OF UNIT
T-2	SD	SOAP DISPENSER	40" A.F.F.	TO BOTTOM OF UNIT
T-3	TTD	TOILET TISSUE DISPENSER	24" A.F.F.	TO CENTERLINE OF UNIT
T-4	PTD	PAPER TOWEL DISPENSER	40" A.F.F.	TO BOTTOM OF UNIT

Symbol	Revisions Descriptions	Date	Approved

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

Designed by: S.D.O. **SCIOTO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE IIIB**

Drawn by: S.D.O.

Checked by: S.D.O.

Reviewed by: S.D.O.

Approved by: **AS SHOWN**  
Date: **MARCH 2000**  
Drawing Code: **O16-PWC-13**

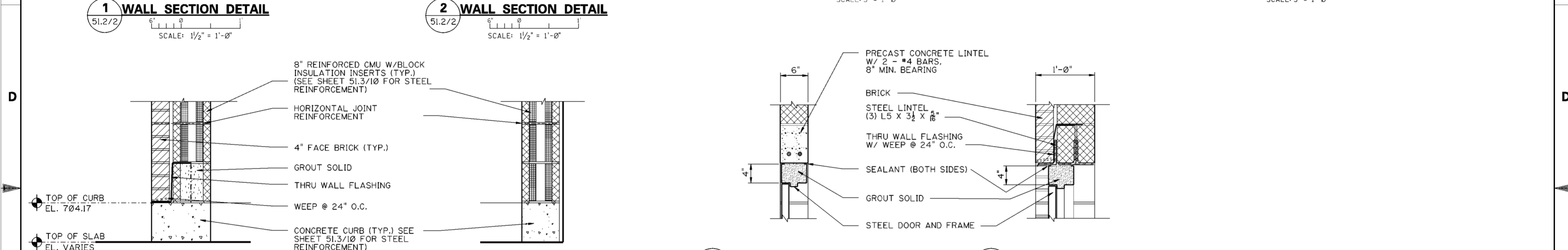
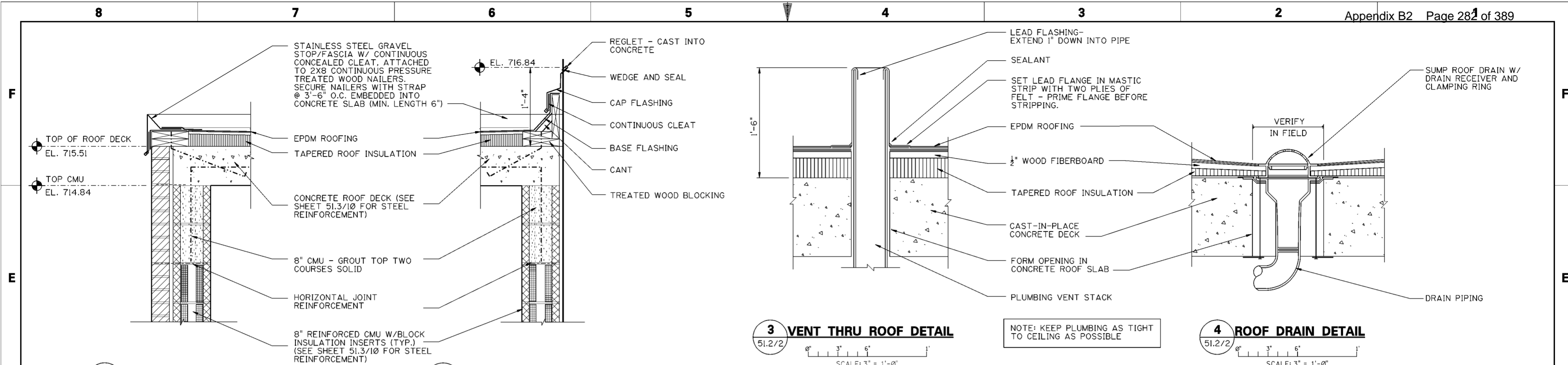
**PUMP STATION  
CONTROL BUILDING**

Scale: **AS SHOWN**

Sheet reference number: **51.2/1**

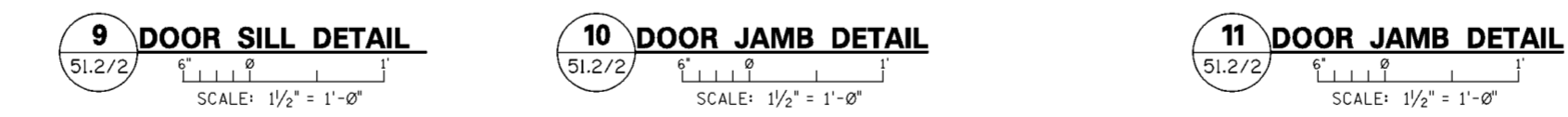
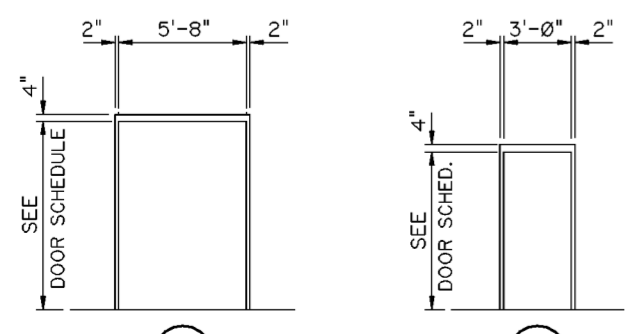
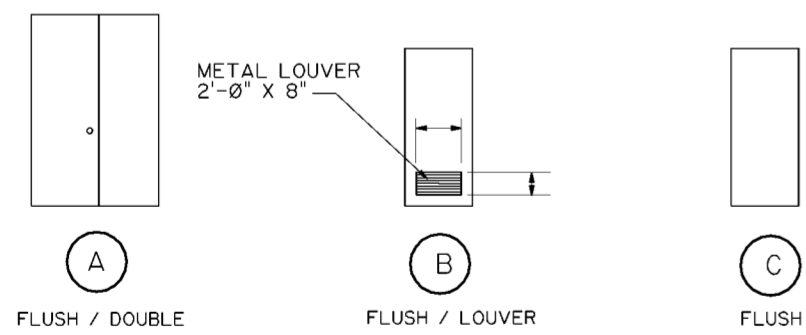
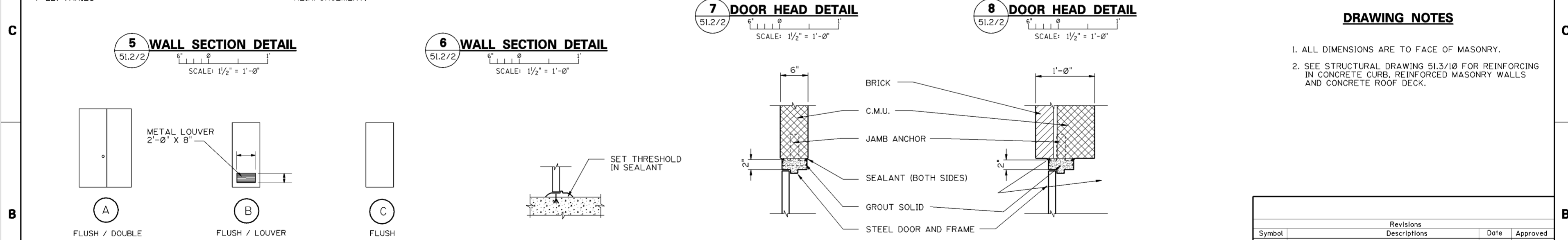
FILENAME: **512.1.dgn**  
PEN TABLE:

Sheet of



**DRAWING NOTES**

- ALL DIMENSIONS ARE TO FACE OF MASONRY.
- SEE STRUCTURAL DRAWING 51.3/10 FOR REINFORCING IN CONCRETE CURB, REINFORCED MASONRY WALLS AND CONCRETE ROOF DECK.



MARK	DOOR						FRAME						LABEL	HDWR. GROUP	REMARKS
	W	H	T	MAT'L.	FINISH	TYPE	MAT'L.	FINISH	TYPE	HEAD	JAMB	SILL			
1	(1) 3'-0" (1) 2'-8"	8'-6 5/8"	1-3/4"	STEEL	PAINT	A	STEEL	PAINT	1	8	11	3	-	1	INSULATED
2	3'-0"	7'-1 3/4"	1-3/4"	STEEL	PAINT	B	STEEL	PAINT	2	7	10	-	-	2	PROVIDE LOUVER
3	3'-0"	7'-0"	1-3/4"	STEEL	PAINT	C	STEEL	PAINT	2	7	10	3	-	3	INSULATED

NOTES:  
 1. VERIFY DOOR AND FRAME HEIGHTS IN FIELD. DOOR HEIGHTS MAY VARY DUE TO SLOPING FLOOR.

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT  
 COLUMBUS, OHIO  
 WEST COLUMBUS L.P.P.  
 PHASE III

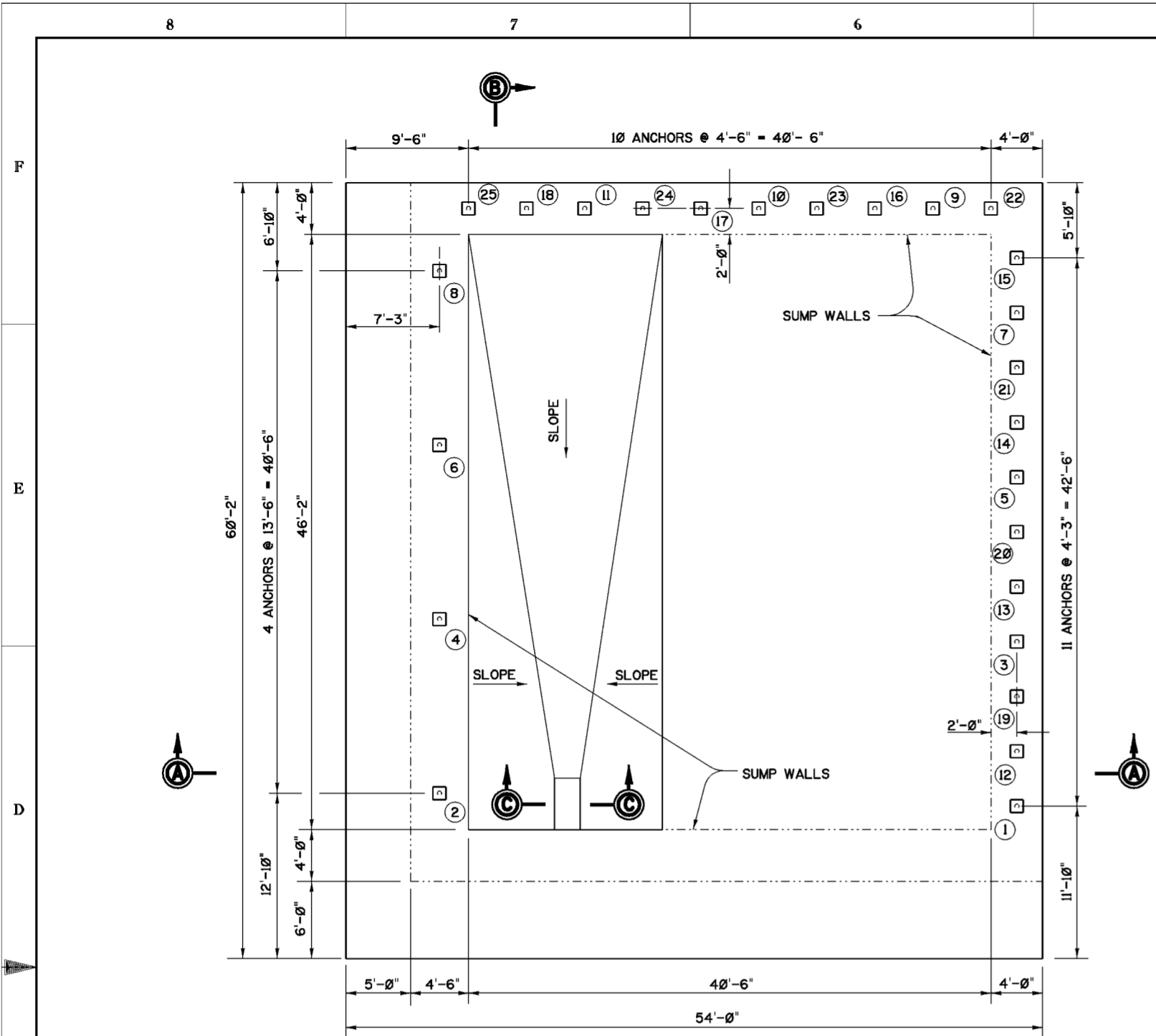
**PUMP STATION  
 CONTROL BUILDING  
 SECTION AND DETAILS**

Designed by: S.D.O.  
 Drawn by: S.D.O.  
 Checked by: S.D.O.  
 Reviewed by: S.D.O.  
 Approved by: S.D.O.

Scale: AS SHOWN  
 Date: MARCH 2000  
 Drawing Code: O16-PWC-13

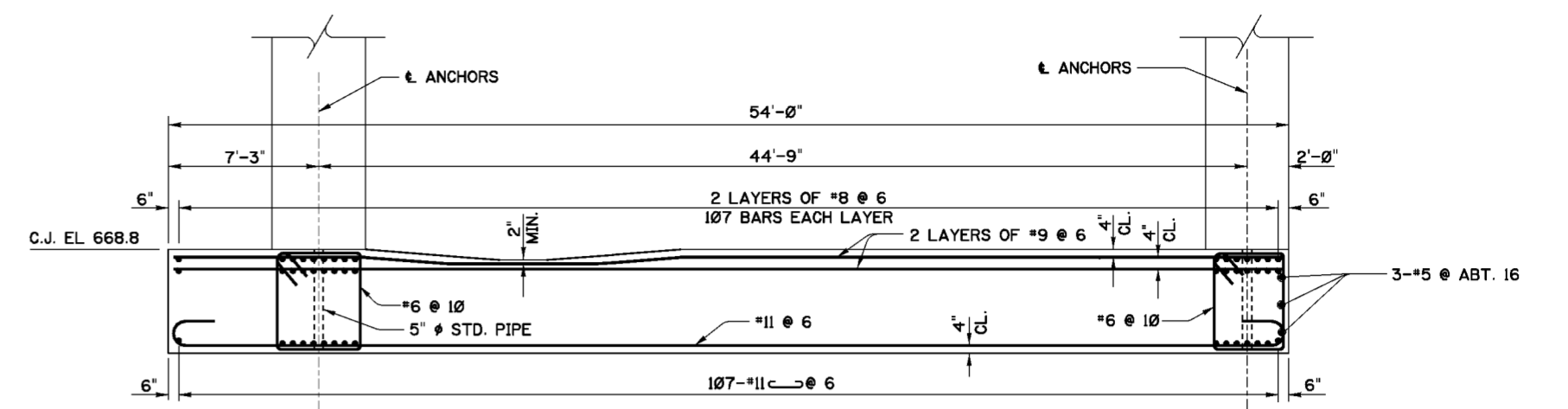
SCOTO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS L.P.P.  
 PHASE III

Sheet reference number: 51.2/2  
 FILENAME: 51.2.dgn  
 PEN TABLE:  
 Sheet of



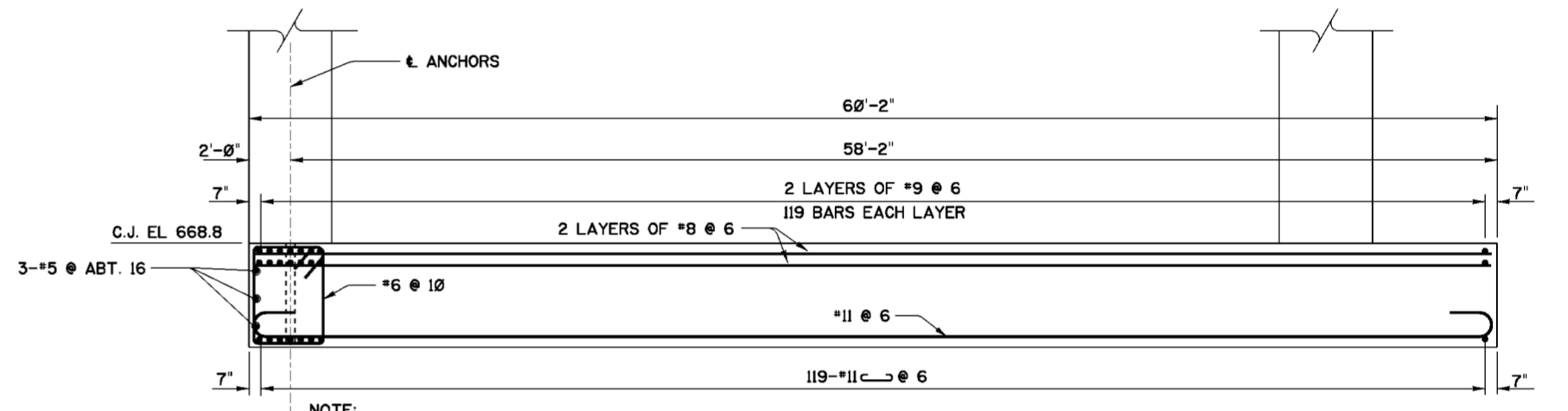
**ANCHOR LAYOUT PLAN**

SCALE:  $\frac{1}{8}$ "=1'-0"



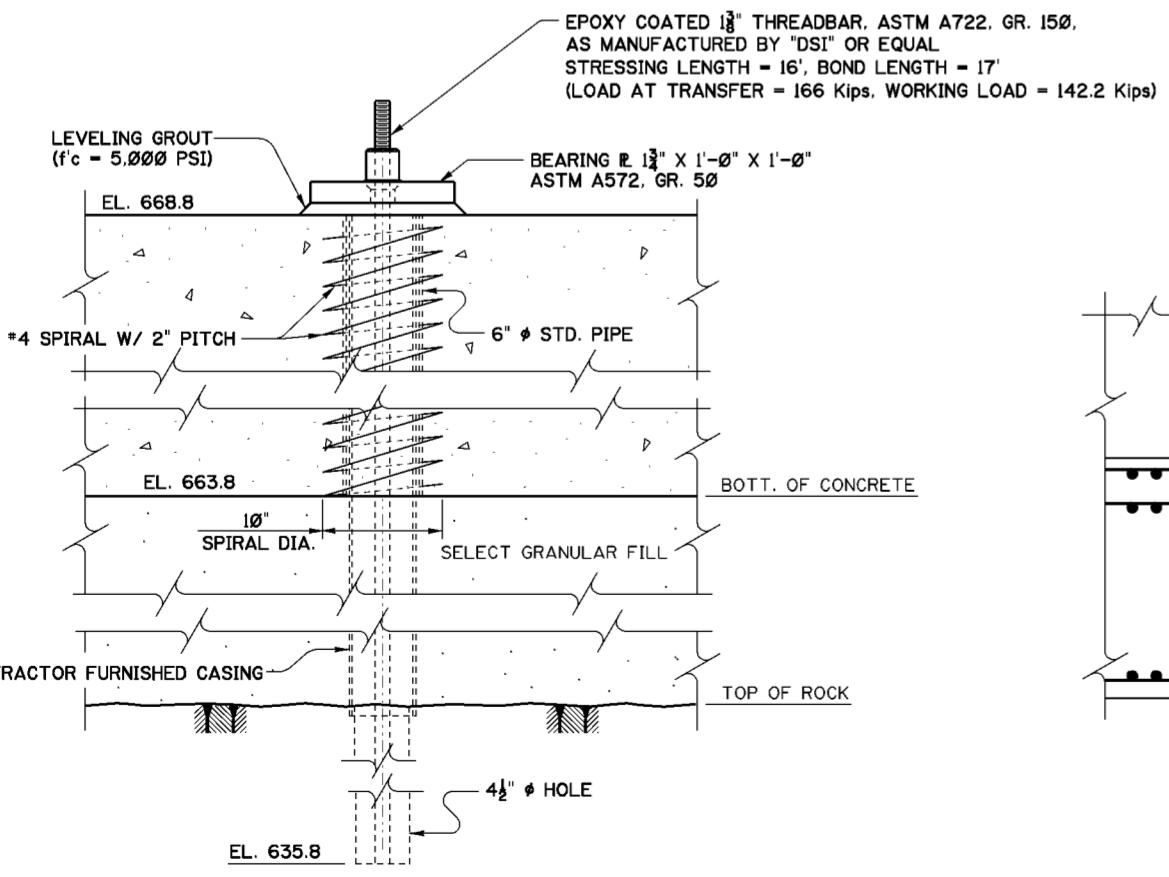
**SECTION A-A**

SCALE:  $\frac{1}{4}$ "=1'-0"



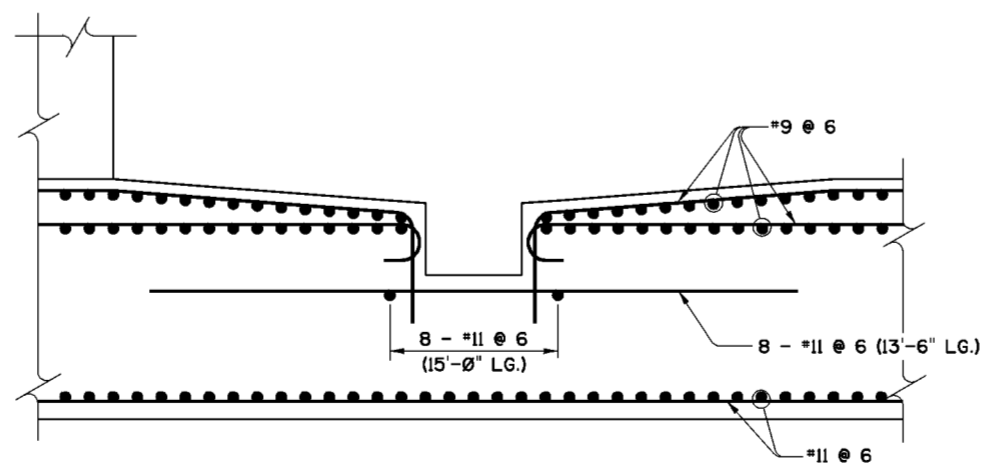
**SECTION B-B**

SCALE:  $\frac{1}{4}$ "=1'-0"



**ANCHOR DETAILS**

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



**SECTION C-C**

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

**INSTALLATION OF ANCHOR BARS**

1. INSTALL CASINGS TO ROCK THRU PIPES EMBEDDED IN BASE SLAB AND DRILL  $4\frac{1}{2}$ "  $\phi$  HOLES IN ROCK TO REQUIRED DEPTH.
2. PRE-GROUT AND RE-DRILL ANCHOR HOLES AS REQUIRED. SEE SPECS.
3. INSTALL ANCHOR BARS PER MANUFACTURER'S RECOMMENDATIONS AND PLACE LEVELING GROUT AND BEARING PLATES.
4. GROUT BOND LENGTHS AND LET THE GROUT SET UNTIL IT REACHES 90% OF ITS ULTIMATE STRENGTH.
5. STRESS ALL ANCHOR BARS TO 20 KIPS PRIOR TO COMMENCING THE FINAL STRESSING PROCEDURE, AS REQUIRED IN SPECIFICATIONS.
6. AFTER COMPLETION OF STRESSING OPERATION, FULLY GROUT STRESSING LENGTH OF EACH ANCHOR BAR.

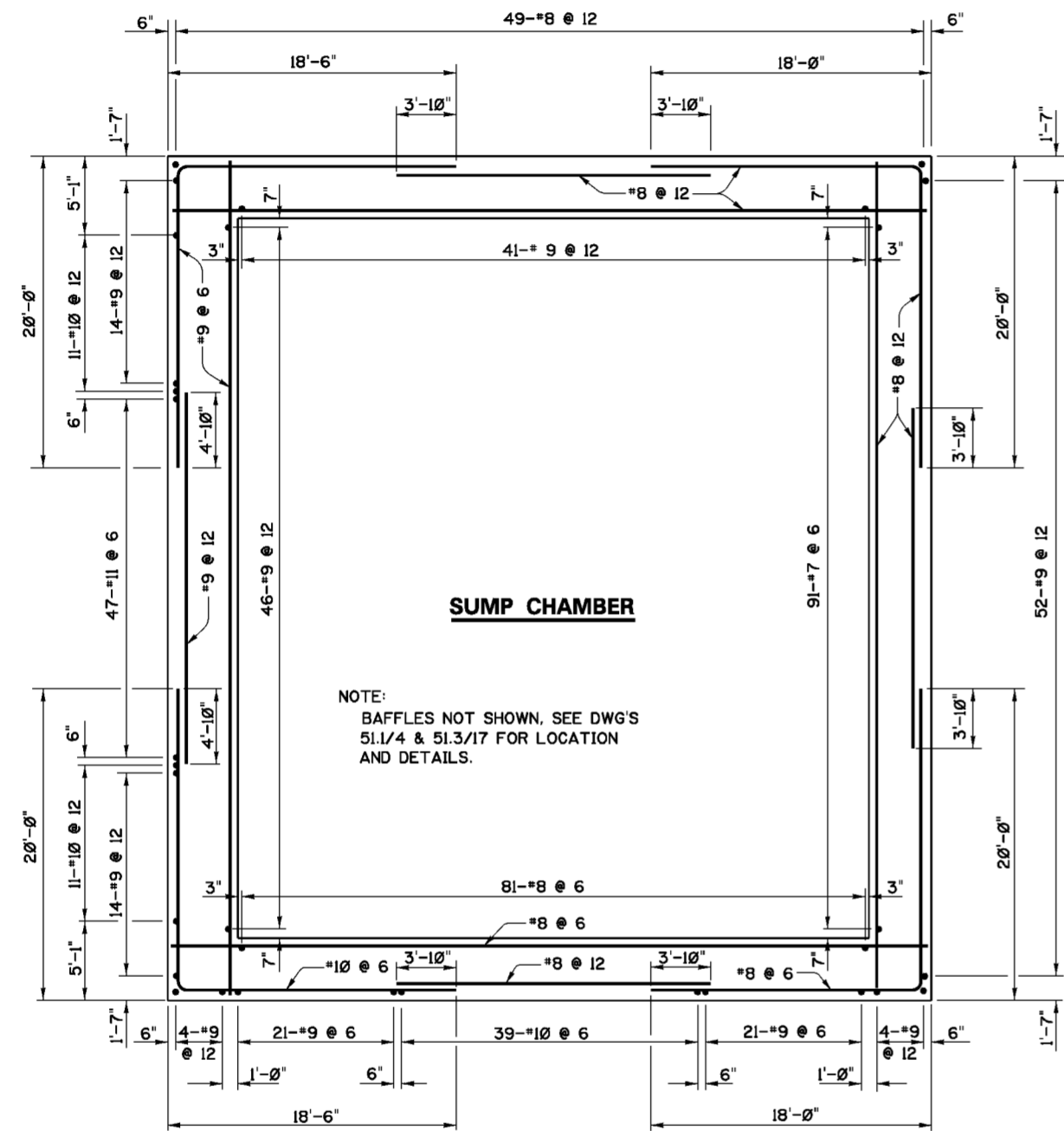
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DETAILS SEE DWGS. 51.1/3 THRU 51.1/7.
4. ① ② ③, .... INDICATE ANCHOR BAR STRESSING SEQUENCE.
5. ANCHOR BARS SHALL BE INSTALLED CONCENTRICALLY IN HOLES BY MEANS OF CENTRALIZERS.

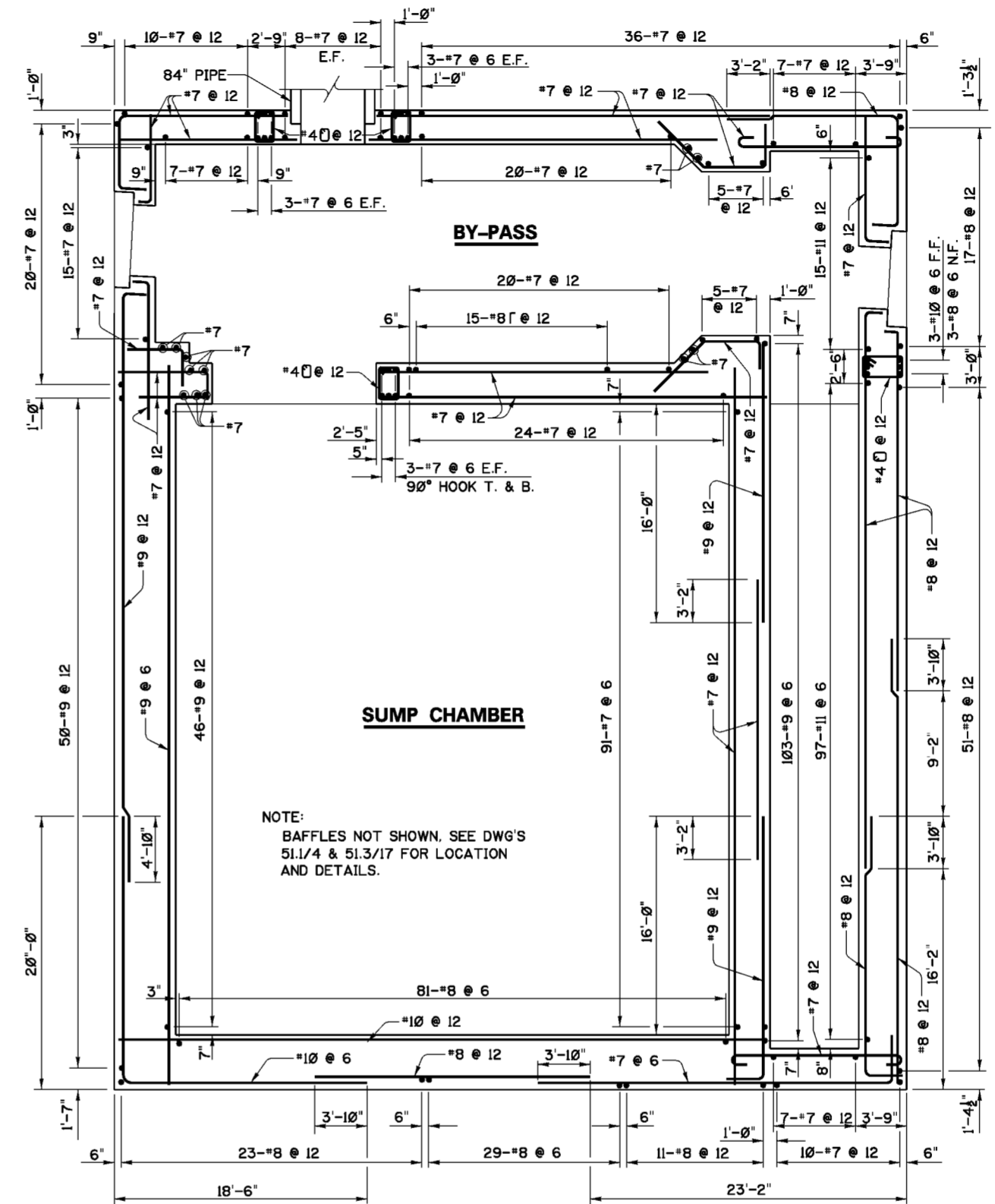
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	Drawn by: M.B.S. B.W.D.	Checked by: M.B.S.	Reviewed by: AS SHOWN
Approved by:	Date: MARCH 2000	Drawing Code: O16-PWC-13	Sheet reference number: 51.3/1
SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B			FILENAME: PEN TABLE: 513_1.dgn
<b>PUMP STATION                  BASE REINFORCEMENT                  AND ANCHORS</b>			Sheet of



**PLAN - EL. 669.0**  
 SCALE: 3/8"=1'-0"



**PLAN - EL. 687.5**  
 SCALE: 3/8"=1'-0"

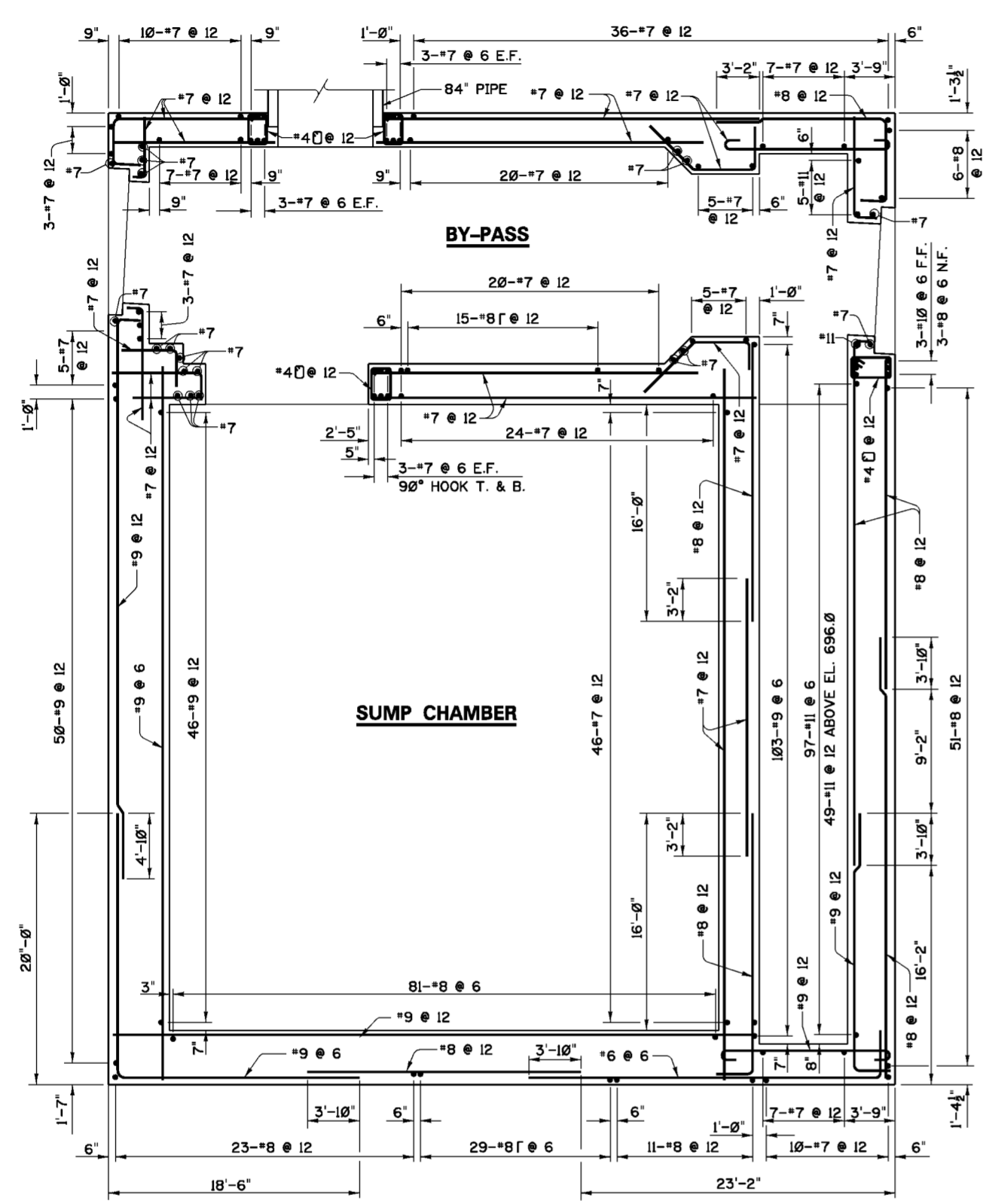
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DETAILS SEE DWGS. 51.1/3 THRU 51.1/7.
4. CONCRETE COVER FOR REINFORCING BARS SHALL BE 4", UNLESS OTHERWISE SHOWN.

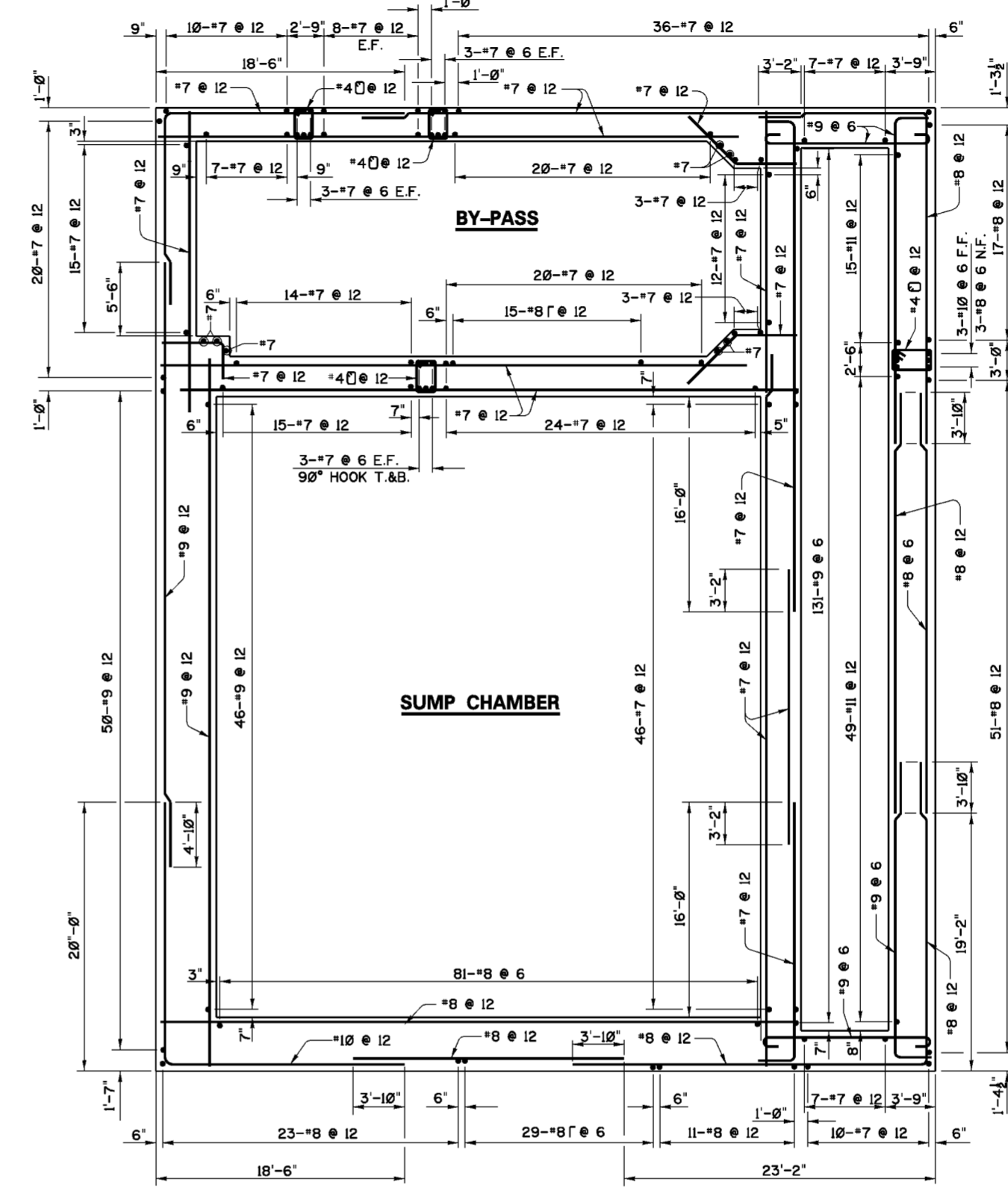
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III <b>PUMP STATION                  REINFORCEMENT                  PLANS AT EL. 669.0 &amp; 687.5</b>	FILENAME: 513_2.dgn PEN TABLE:
Drawn by:	M.B.S. B.W.D.		
Checked by:	M.B.S.		
Reviewed by:	AS SHOWN		
Approved by:	MARCH 2000		
Drawing Code:	O16-PWC-13	Sheet reference number:	51.3/2
		Sheet	of



**PLAN - EL. 692.0**  
 12' 0" 2' 4' 6' 8' 10' 12' 14'  
 SCALE: 3/8"=1'-0"



**PLAN - EL. 698.0**  
 SCALE: 3/8"=1'-0"

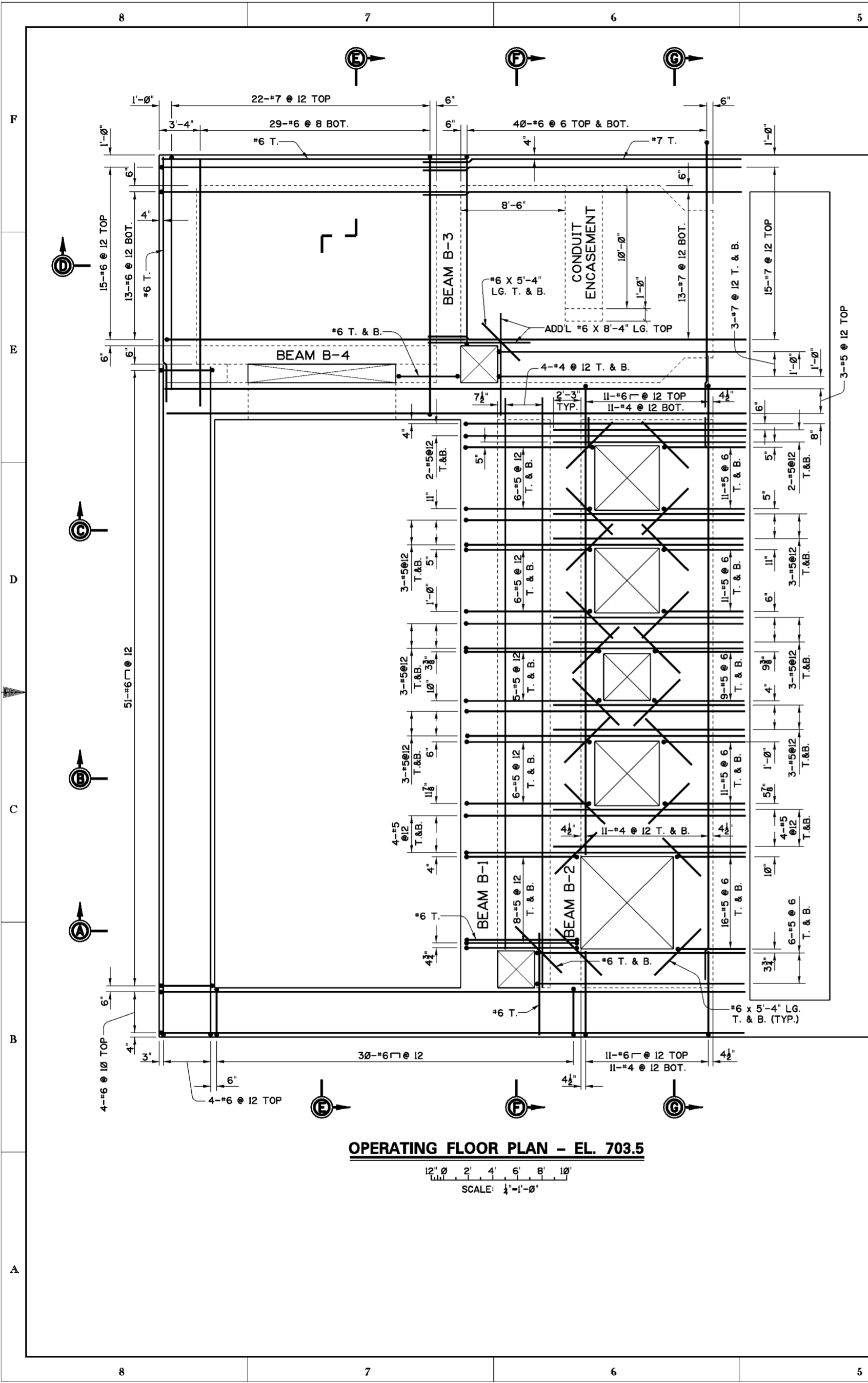
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DETAILS SEE DWGS. 51.1/3 THRU 51.1/7.
4. CONCRETE COVER FOR REINFORCING BARS SHALL BE 4", UNLESS OTHERWISE SHOWN.

Revisions			
Symbol	Descriptions	Date	Approved

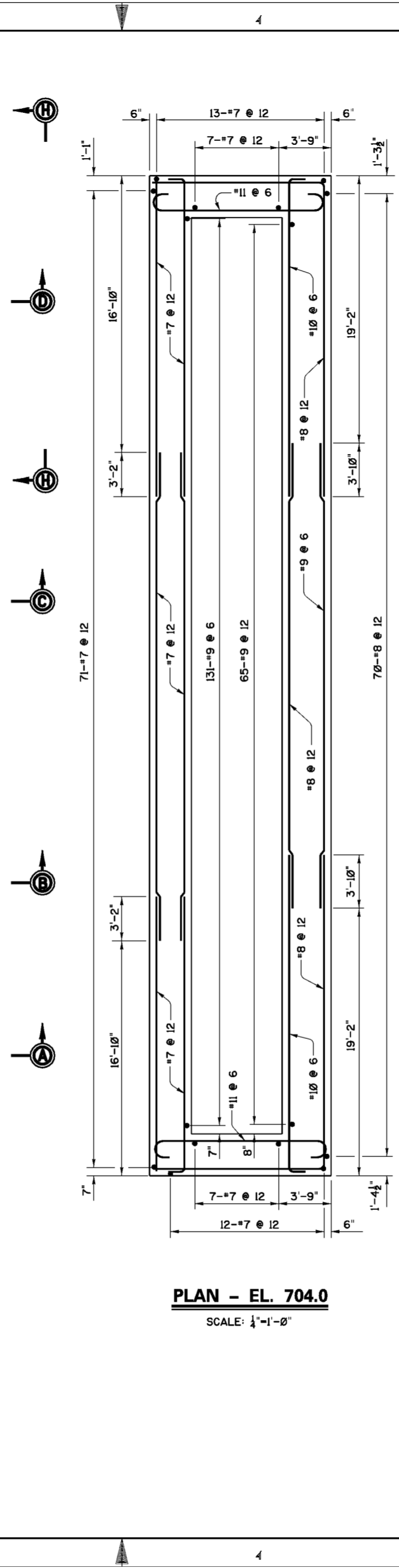
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III <b>PUMP STATION                  REINFORCEMENT                  PLANS AT EL. 692.0 &amp; 698.0</b>	
Drawn by:	M.B.S. B.W.D.		
Checked by:	M.B.S.		
Reviewed by:	AS SHOWN		
Approved by:	MARCH 2000		
Scale:		Sheet reference number:	FILENAME: 513_3.dgn
Drawing Code:		51.3/3	PEN TABLE:
016-PWC-13		Sheet	of



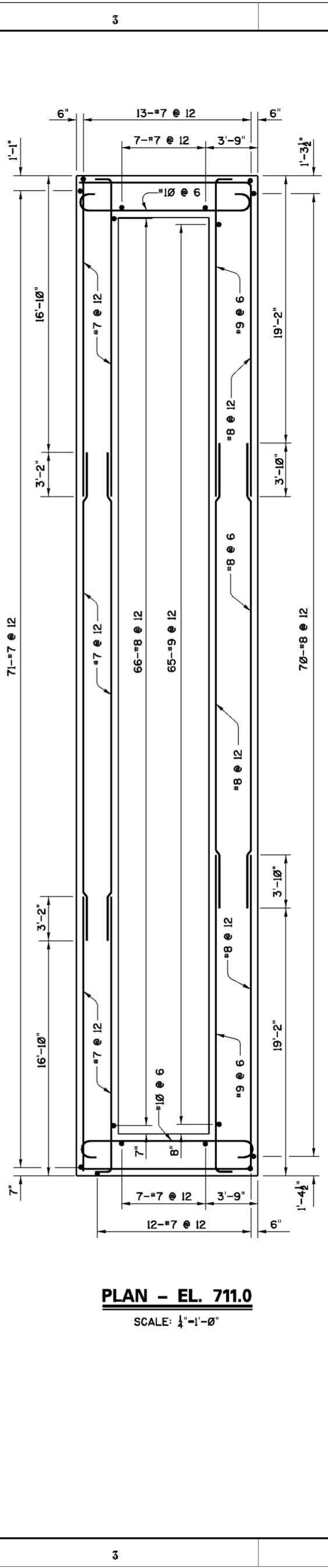
**OPERATING FLOOR PLAN - EL. 703.5**

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



**PLAN - EL. 704.0**

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



**PLAN - EL. 711.0**

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

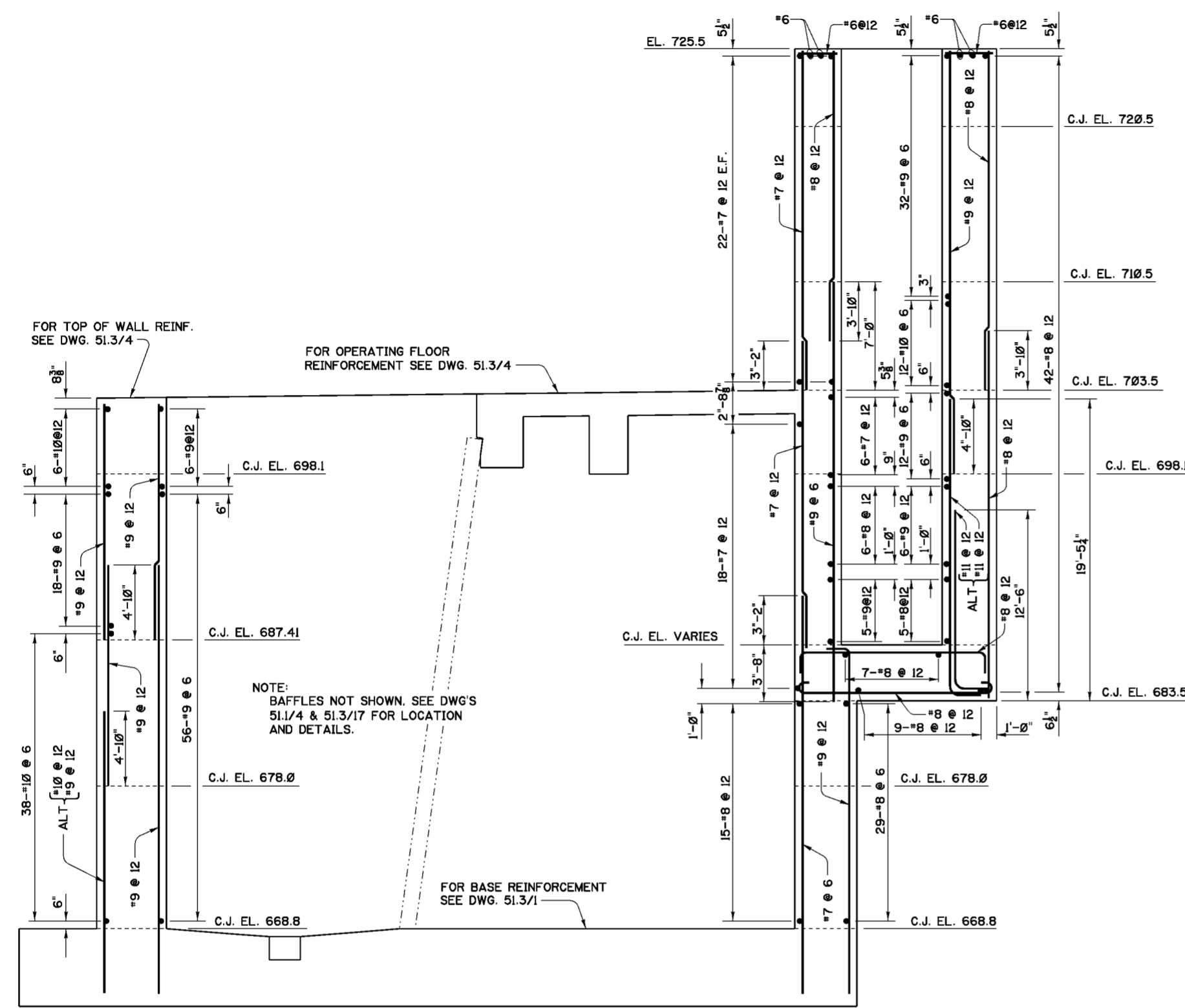
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DETAILS SEE DWGS. 51.1/3 THRU 51.1/7.
4. FOR SECTIONS AND VIEW H-H SEE DWGS. 51.3/5 THRU 51.3/8.
5. FOR BEAM REINFORCEMENT AND DETAILS SEE DWG. 51.3/9.
6. CONCRETE COVER FOR REINFORCING BARS SHALL BE 4", UNLESS OTHERWISE SHOWN.

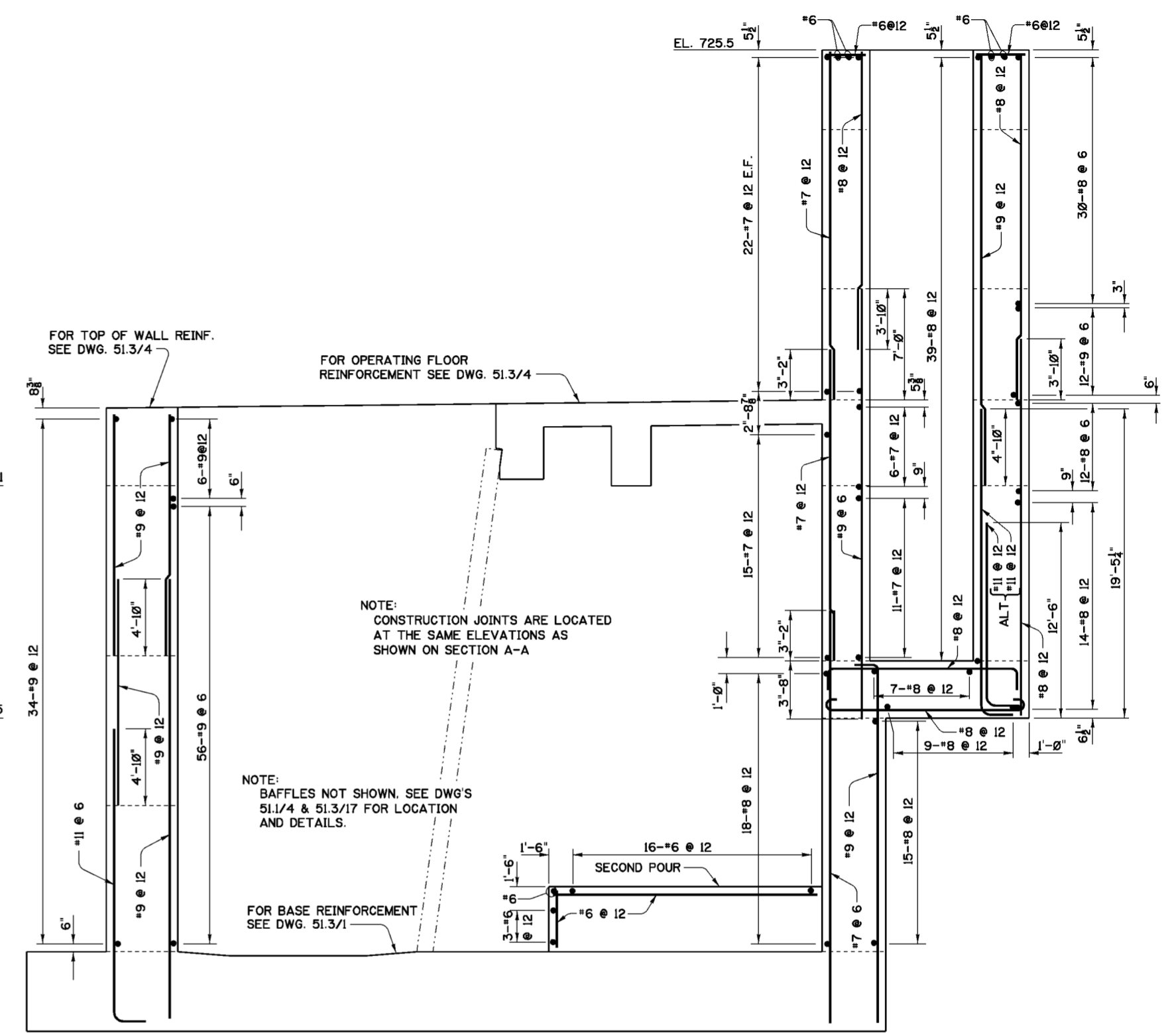
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B
Drawn by:	B.W.D.		
Checked by:	M.B.S.	<b>PUMP STATION REINFORCEMENT PLANS AT EL. 703.5, 704.0 &amp; 711.0</b>	
Reviewed by:	AS SHOWN	Scale:	Sheet reference number:
Approved by:	MARCH 2000	Date:	FILENAME: 513_4.dgn
	O16-PWC-13	Drawing Code:	PEN TABLE:
			51.3/4
			Sheet of



**SECTION A-A**  
SCALE: 1/4"=1'-0"



**SECTION B-B**  
SCALE: 1/4"=1'-0"

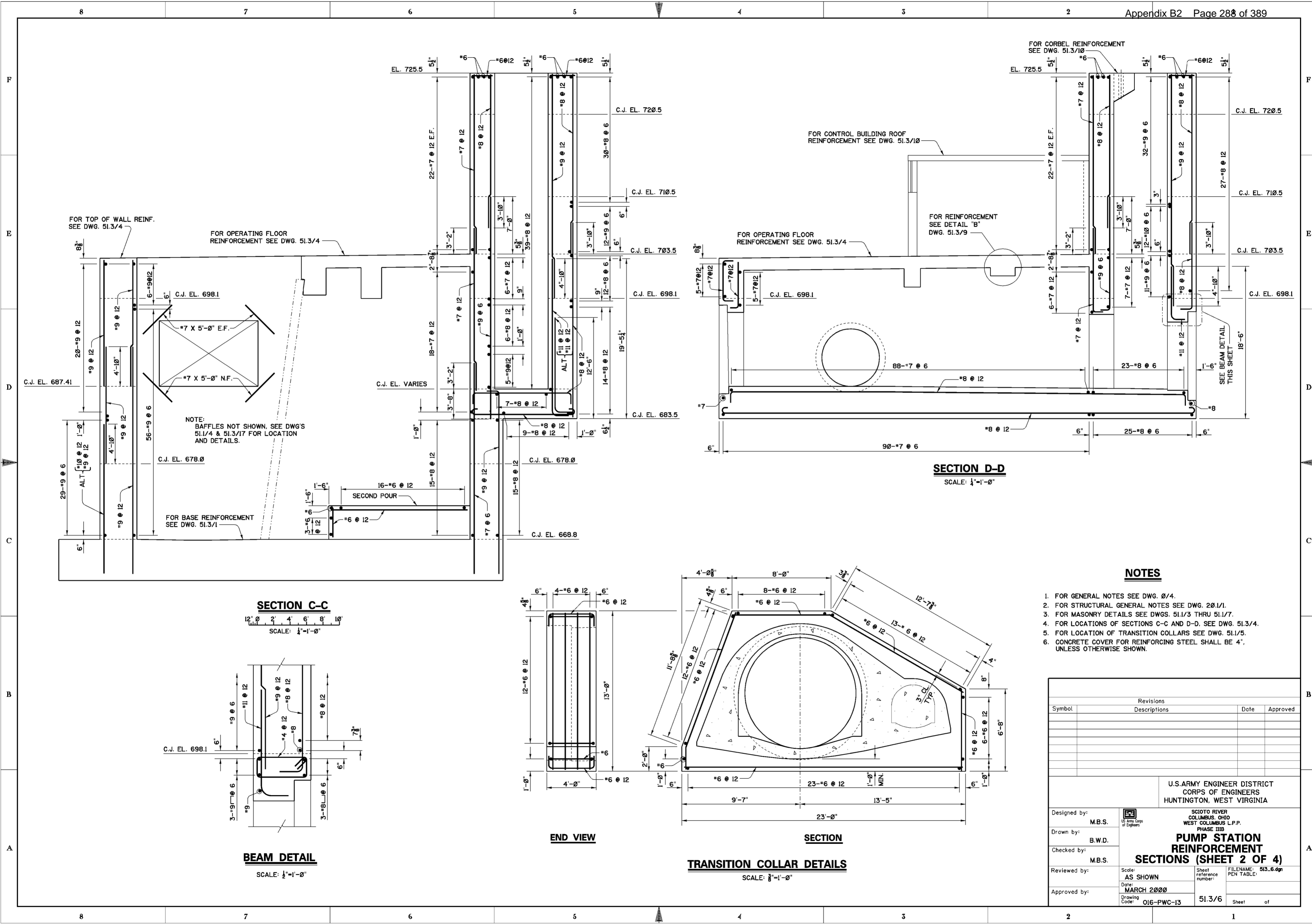
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DETAILS SEE DWGS. 51.1/3 THRU 51.1/7.
4. FOR LOCATIONS OF SECTIONS A-A AND B-B. SEE DWG. 51.3/4.
5. CONCRETE COVER FOR REINFORCING BARS SHALL BE 4", UNLESS OTHERWISE SHOWN.

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B
Drawn by:	B.W.D.		
Checked by:	M.B.S.	<b>PUMP STATION REINFORCEMENT SECTIONS (SHEET 1 OF 4)</b>	
Reviewed by:	AS SHOWN	Scale:	Sheet reference number:
Approved by:	MARCH 2000	Date:	FILENAME: 513_5.dgn PEN TABLE:
	Drawing Code: O16-PWC-13	51.3/5	Sheet of



**SECTION D-D**  
SCALE: 1/4"=1'-0"

**SECTION C-C**  
SCALE: 1/4"=1'-0"

**BEAM DETAIL**  
SCALE: 1/2"=1'-0"

**END VIEW**

**SECTION**  
**TRANSITION COLLAR DETAILS**  
SCALE: 3/8"=1'-0"

**NOTES**

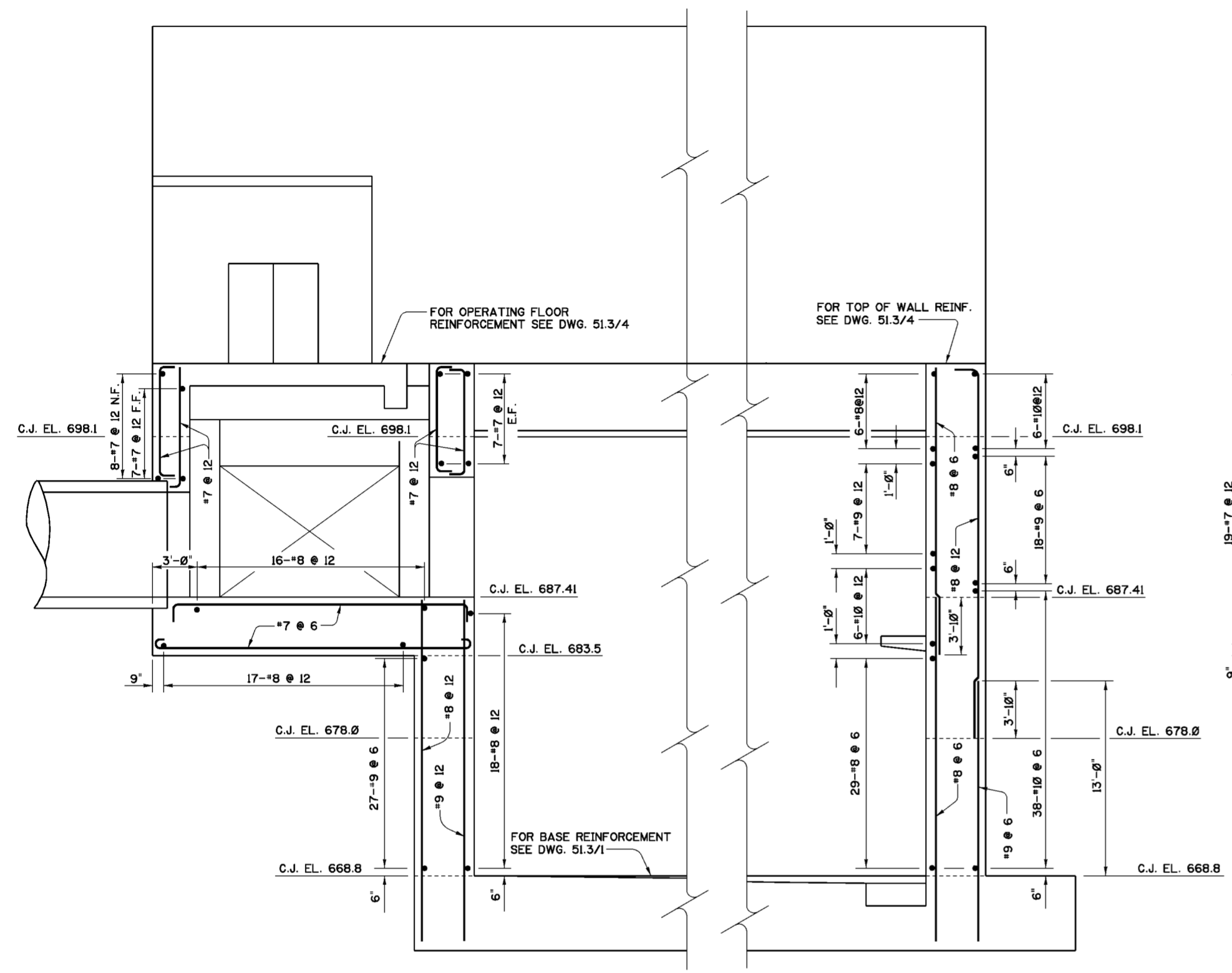
1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20/1/1.
3. FOR MASONRY DETAILS SEE DWGS. 51.1/3 THRU 51.1/7.
4. FOR LOCATIONS OF SECTIONS C-C AND D-D. SEE DWG. 51.3/4.
5. FOR LOCATION OF TRANSITION COLLARS SEE DWG. 51.1/5.
6. CONCRETE COVER FOR REINFORCING STEEL SHALL BE 4", UNLESS OTHERWISE SHOWN.

Revisions			
Symbol	Descriptions	Date	Approved

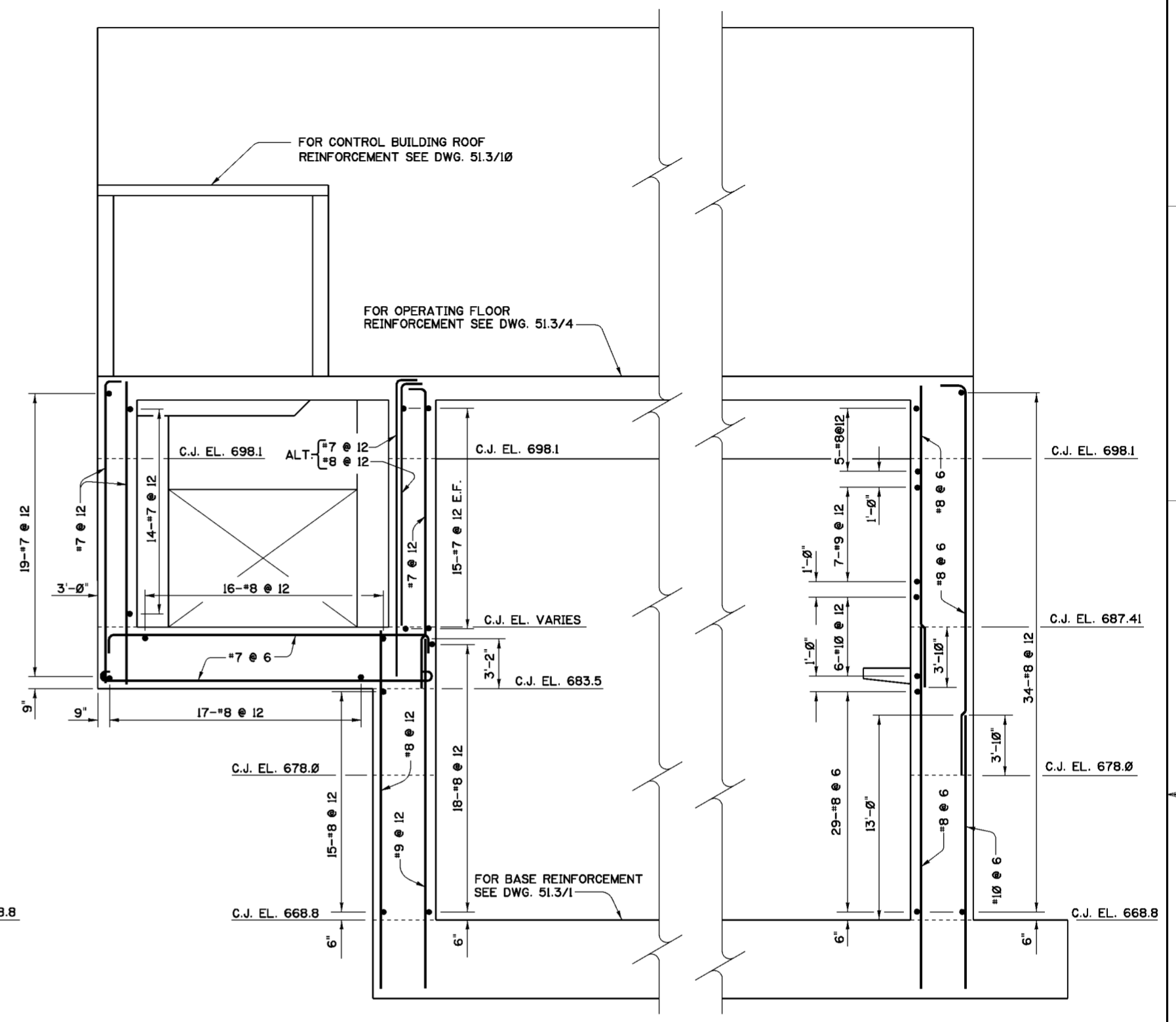
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB	FILENAME: 513_6.dgn PEN TABLE:	
Drawn by: B.W.D.	<b>PUMP STATION                  REINFORCEMENT                  SECTIONS (SHEET 2 OF 4)</b>		
Checked by: M.B.S.	Scale: AS SHOWN	Sheet reference number: 51.3/6	Sheet of
Reviewed by:	Date: MARCH 2000	Drawing Code: O16-PWC-13	
Approved by:	51.3/6		





**SECTION E-E**  
SCALE: 1/4"=1'-0"



**SECTION F-F**  
SCALE: 1/4"=1'-0"

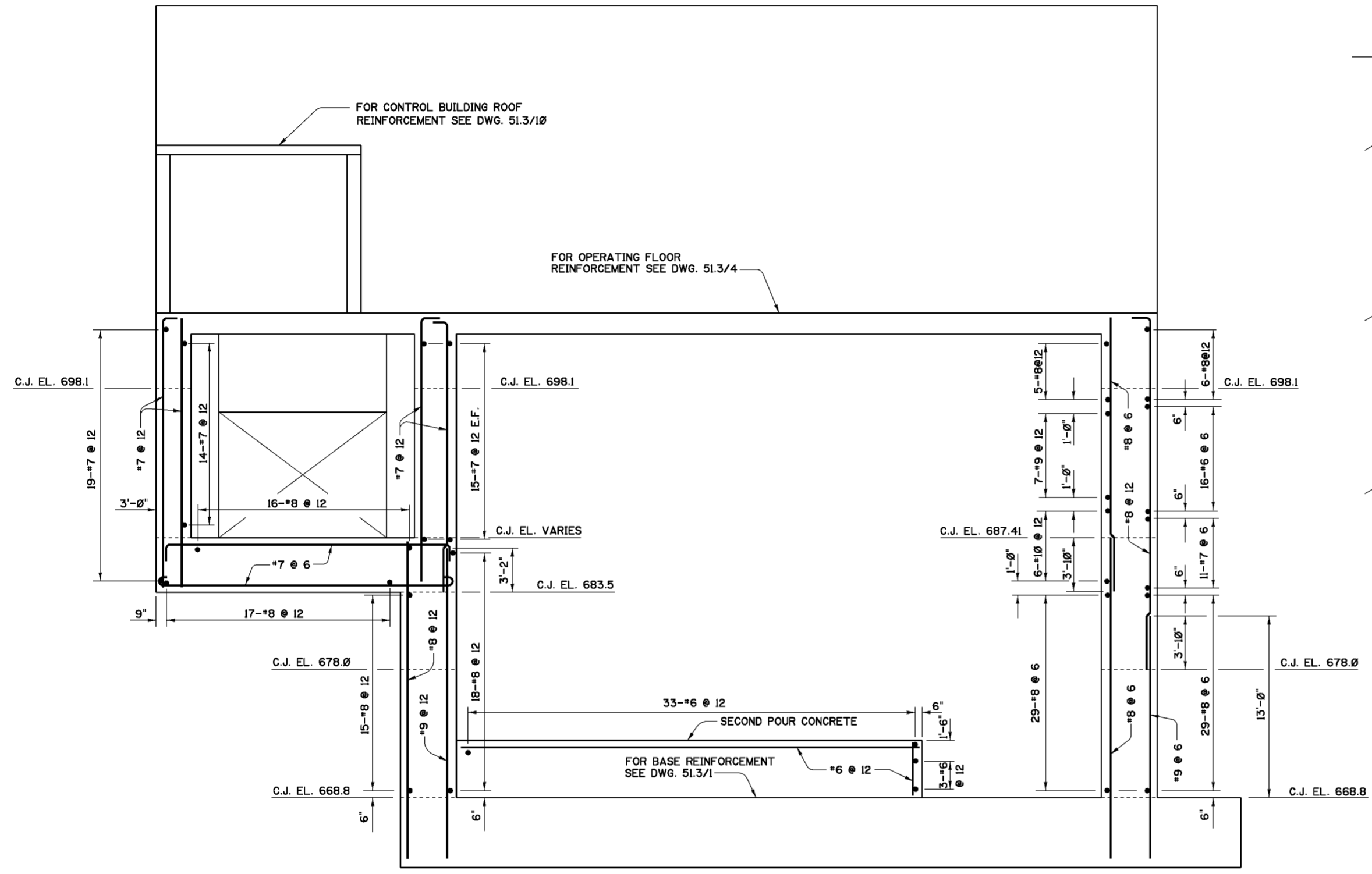
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
3. FOR MASONRY DETAILS SEE DWGS. 51.1/3 THRU 51.1/7.
4. FOR LOCATIONS OF SECTIONS E-E AND F-F, SEE DWG. 51.3/4.
5. CONCRETE COVER FOR REINFORCING BARS SHALL BE 4", UNLESS OTHERWISE SHOWN.

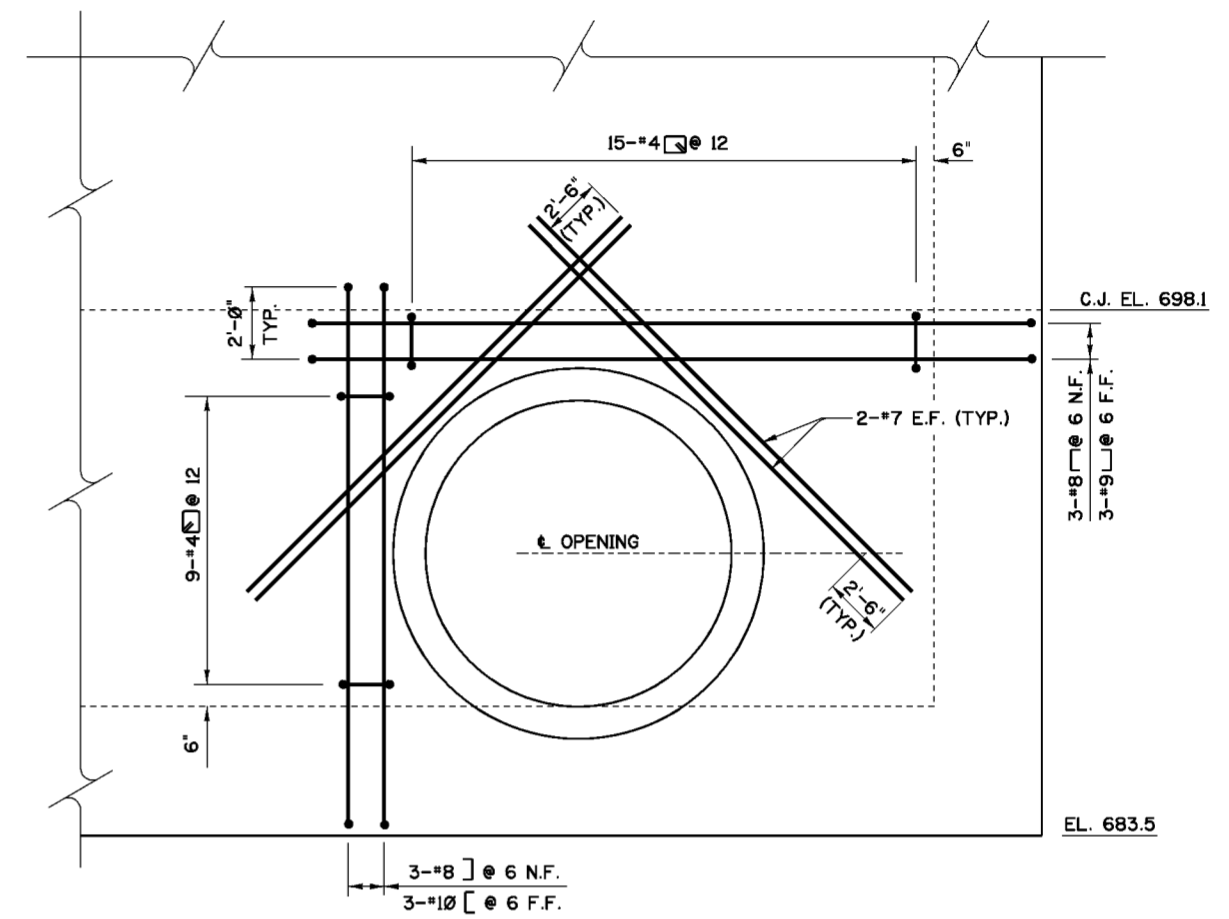
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB	<b>PUMP STATION                  REINFORCEMENT                  SECTIONS (SHEET 3 OF 4)</b>	
Drawn by: B.W.D.			
Checked by: M.B.S.	Reviewed by:	Scale: AS SHOWN	Sheet reference number:
Approved by:	Date: MARCH 2000	FILENAME: 513_7.dgn	PEN TABLE:
Drawing Code: O16-PWC-13	51.3/7	Sheet	of



**SECTION G-G**  
 SCALE: 1/4"=1'-0"



**VIEW H-H**  
 SCALE: 3/8"=1'-0"

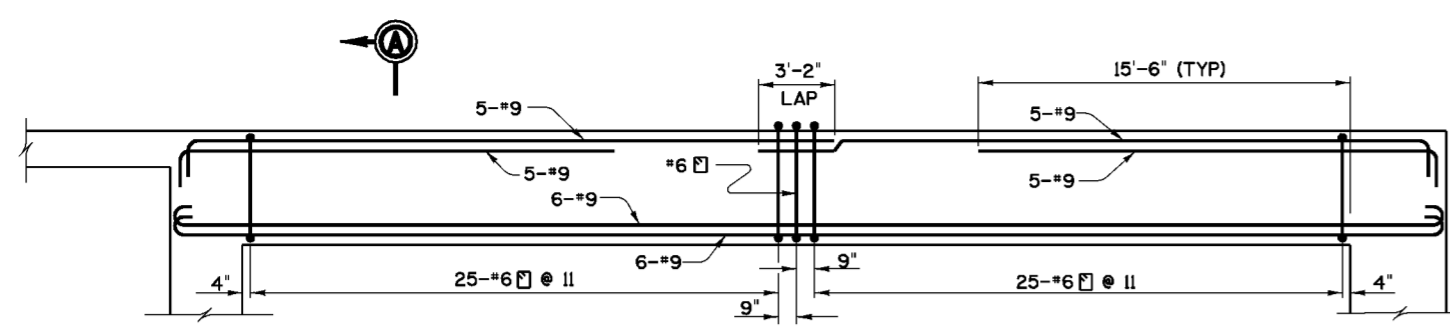
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20/1/1.
3. FOR MASONRY DETAILS SEE DWGS. 51.1/3 THRU 51.1/7.
4. FOR LOCATIONS OF SECTION G-G AND VIEW H-H, SEE DWG. 51.3/4.
5. CONCRETE COVER FOR REINFORCING BARS SHALL BE 4", UNLESS OTHERWISE SHOWN.

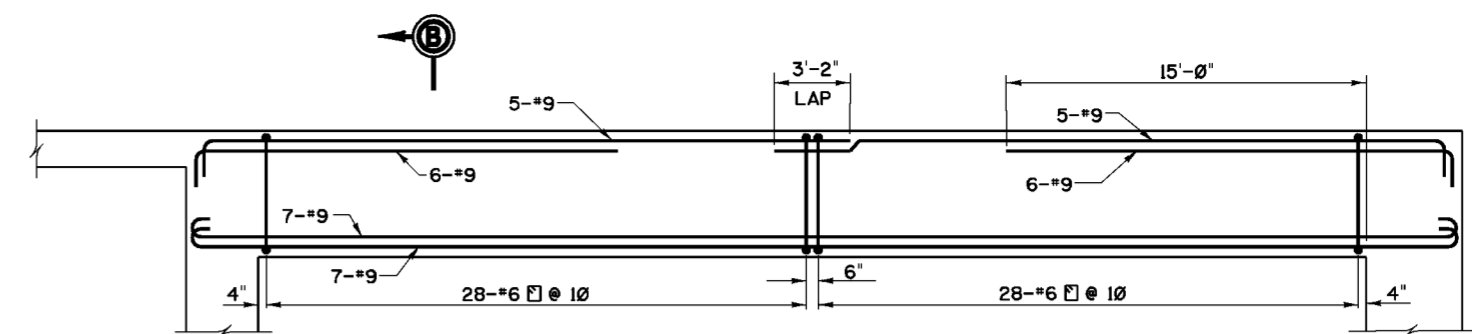
Revisions			
Symbol	Descriptions	Date	Approved

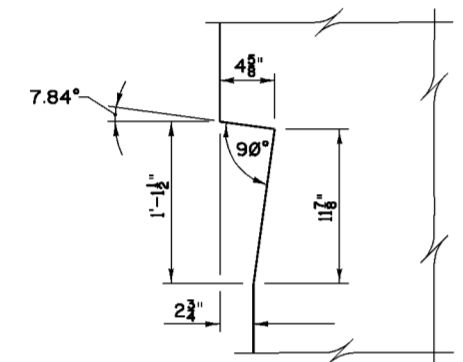
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III <b>PUMP STATION REINFORCEMENT SECTIONS (SHEET 4 OF 4)</b>	Reviewed by: AS SHOWN	Sheet reference number: 51.3/8
Drawn by: B.W.D.		Date: MARCH 2000	FILENAME: PEN TABLE: 513_8.dgn
Checked by: M.B.S.		Approved by:	Drawing Code: O16-PWC-13



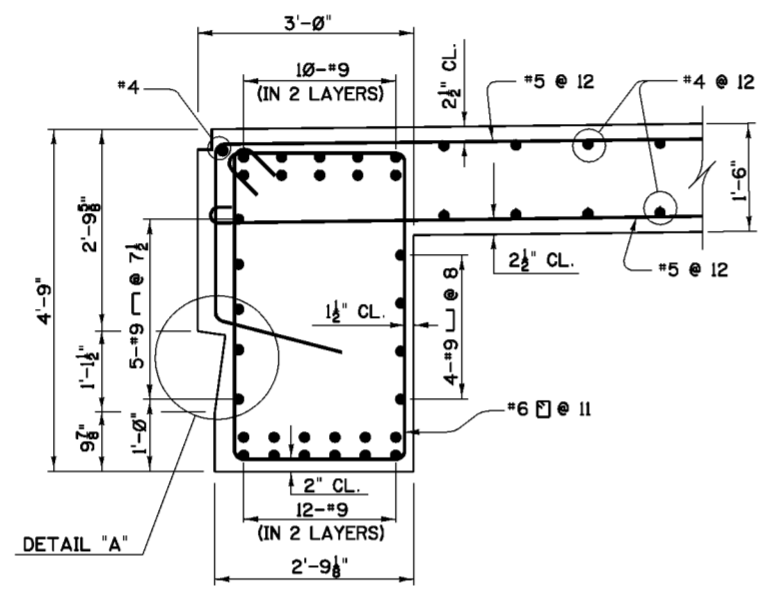
**BEAM B-1**  
SCALE: 1/4" = 1'-0"



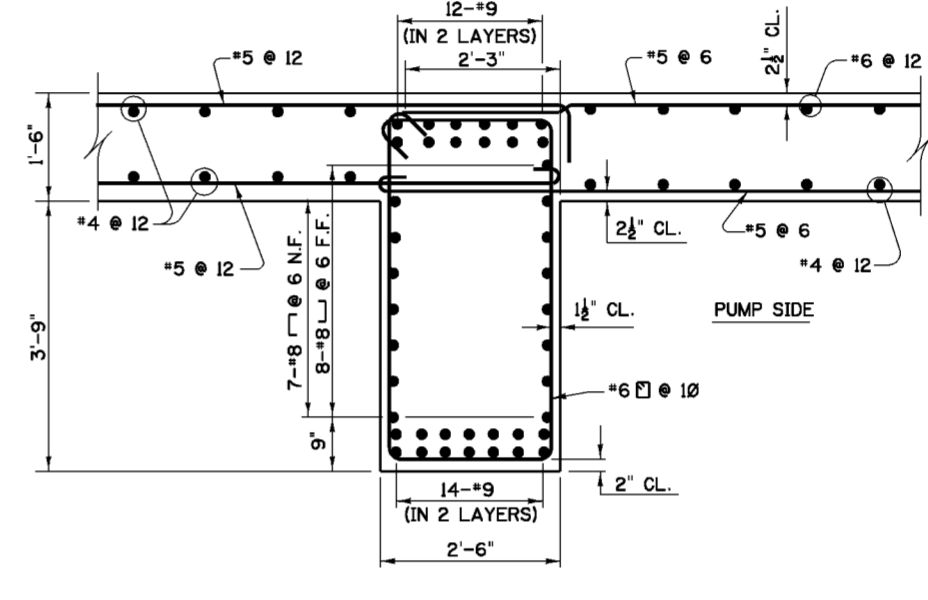
**BEAM B-2**  
SCALE: 1/4" = 1'-0"



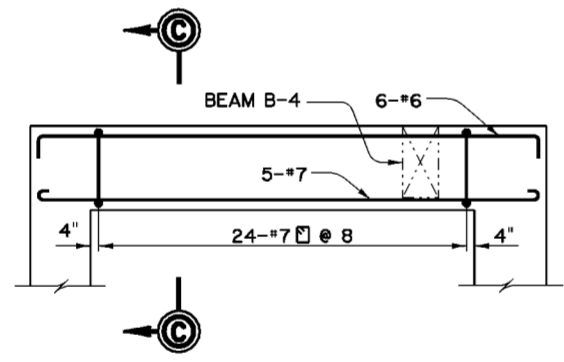
**DETAIL "A"**  
SCALE: 1/2" = 1'-0"



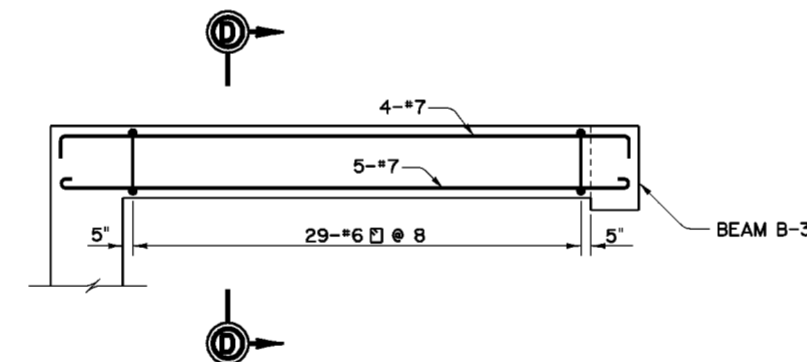
**SECTION A-A**  
SCALE: 3/4" = 1'-0"



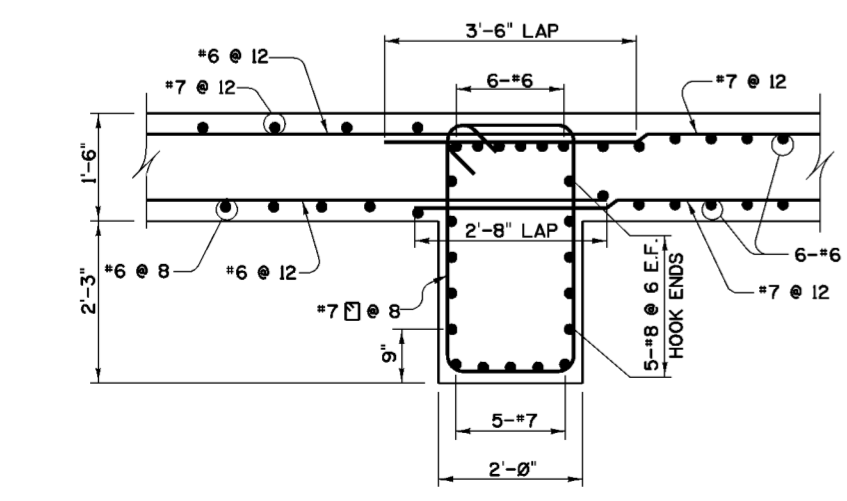
**SECTION B-B**  
SCALE: 3/4" = 1'-0"



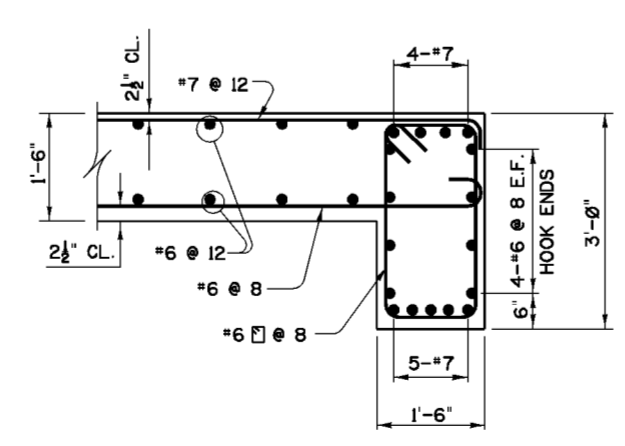
**BEAM B-3**  
SCALE: 1/4" = 1'-0"



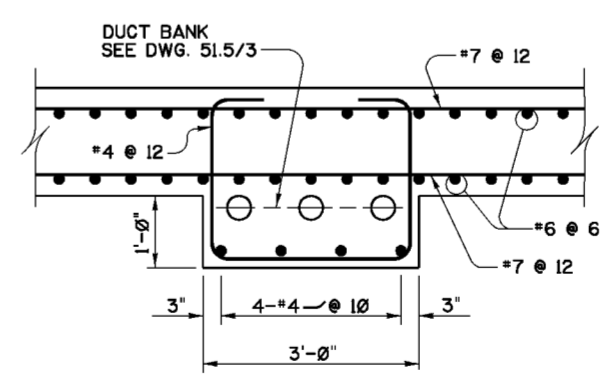
**BEAM B-4**  
SCALE: 1/4" = 1'-0"



**SECTION C-C**  
SCALE: 3/4" = 1'-0"



**SECTION D-D**  
SCALE: 3/4" = 1'-0"



**DETAIL "B"**  
SCALE: 3/4" = 1'-0"

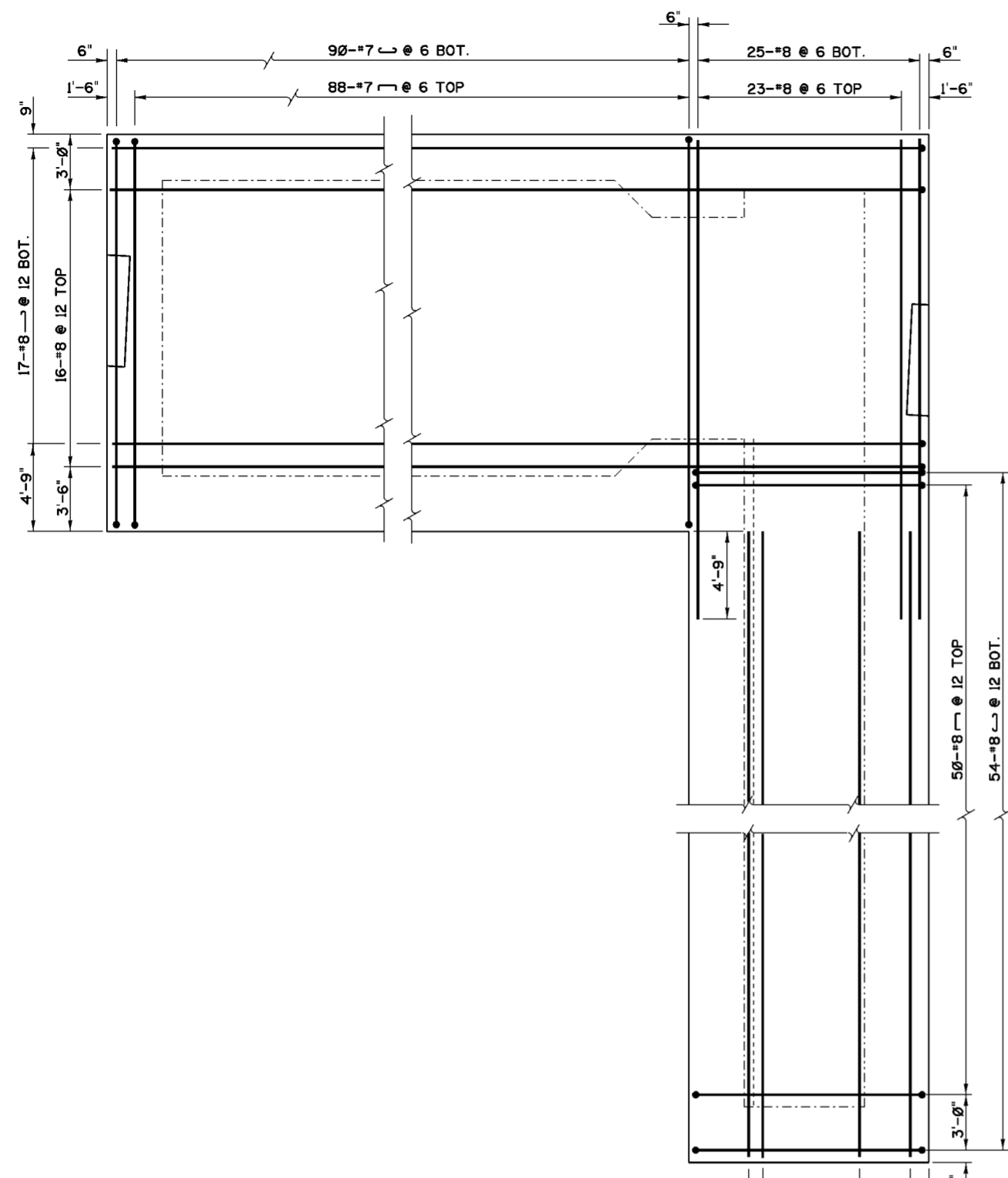
**NOTES**

- FOR GENERAL NOTES SEE DWG. 0/4.
- FOR STRUCTURAL GENERAL NOTES SEE DWG. 20.1/1.
- FOR LOCATION OF BEAMS SEE DWG. 51.3/4.
- FOR LOCATION OF DETAIL "B" SEE DWG. 51.3/6.
- CONCRETE COVER FOR BEAM REINFORCEMENT SHALL BE AS FOLLOWS:  
 BOTTOM & TOP OF CLOSED STIRRUPS . . . . . 2"  
 VERTICAL LEGS OF CLOSED STIRRUPS . . . . . 1 1/2"
- CLEAR DISTANCE BETWEEN 2 PARALLEL LAYERS OF REINFORCEMENT IN THE SAME FACE OF BEAM SHALL BE 2".

Revisions			
Symbol	Descriptions	Date	Approved

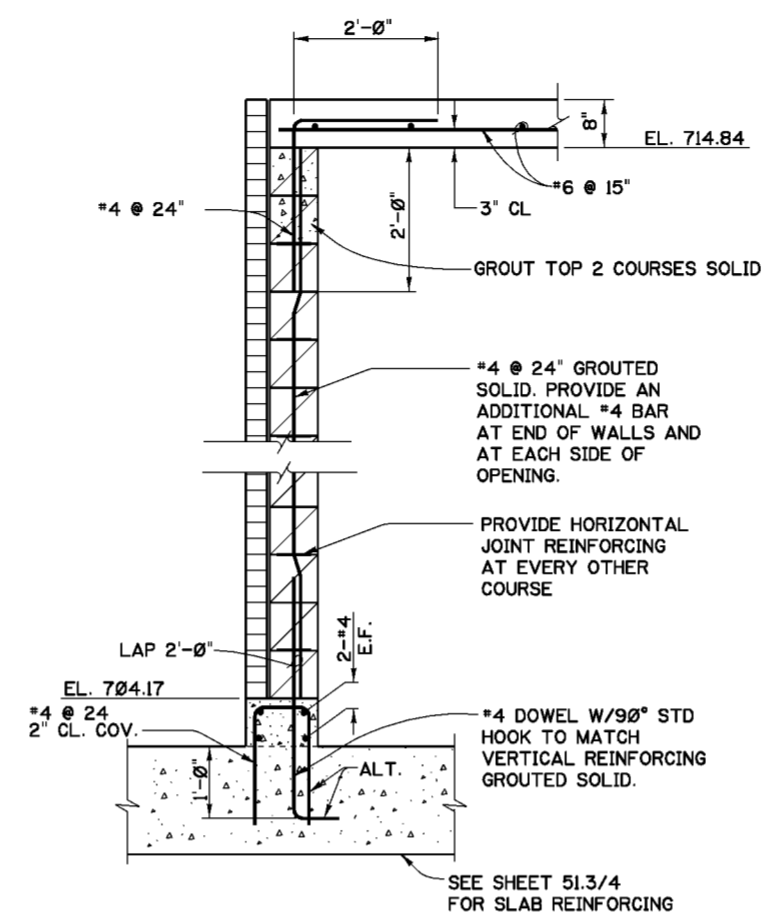
  

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA				
Designed by: M.B.S.	SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III <b>PUMP STATION REINFORCEMENT-OPER. FLOOR BEAMS B-1 THRU B-4</b>	Reviewed by:	FILENAME: 513_9.dgn	
Drawn by: M.B.S.		Checked by:	PEN TABLE:	
Reviewed by:		Scale: AS SHOWN	Sheet reference number:	51.3/9
Approved by:		Date: MARCH 2000	Drawing Code:	O16-PWC-13



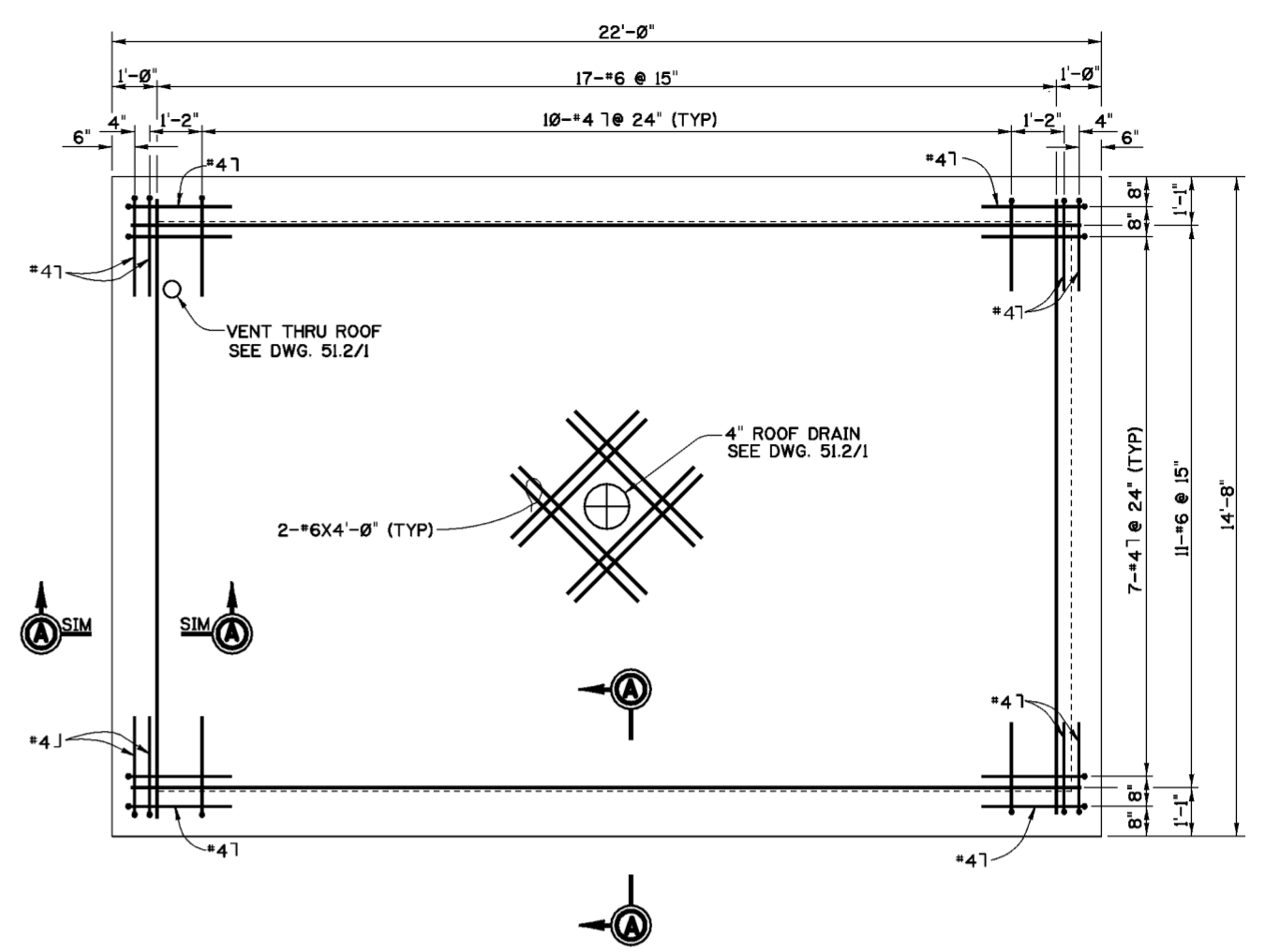
**PLAN - SLAB AT EL. 687.6**

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



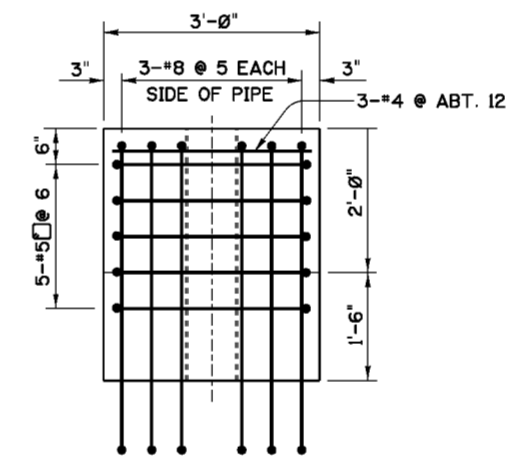
**SECTION A-A**

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

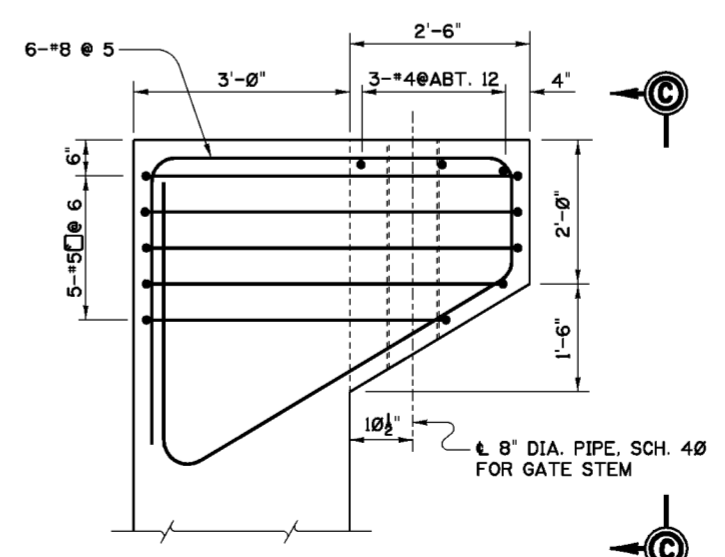


**CONTROL BUILDING - ROOF PLAN**

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

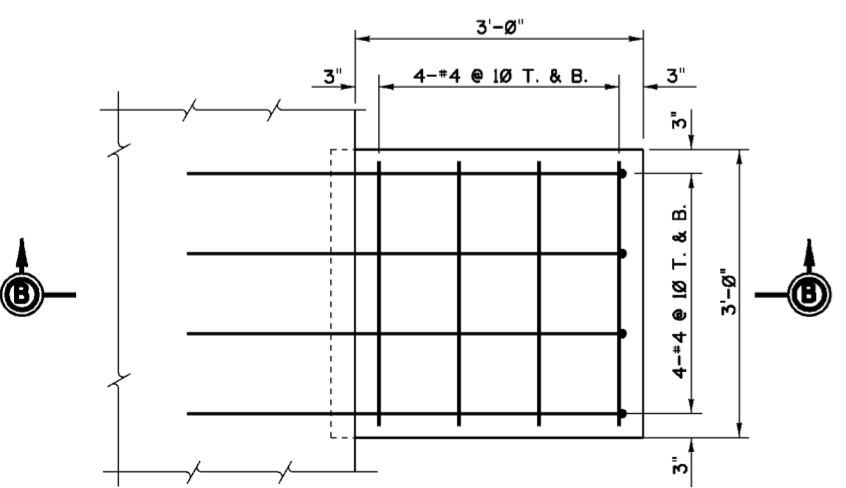


**VIEW C-C**



**SECTION CORBEL REINFORCEMENT**

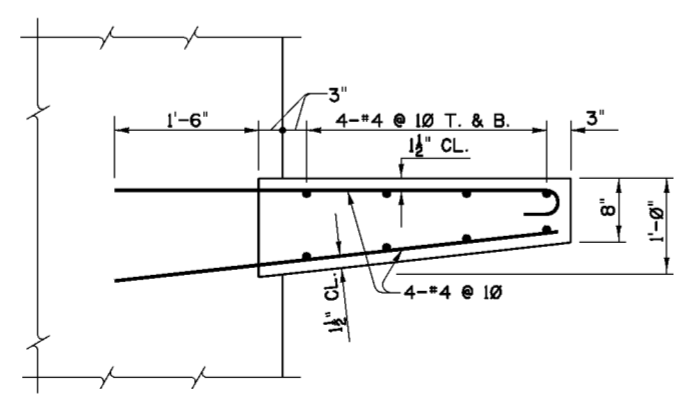
SCALE: 3/4"=1'-0"



**PLAN**

**TYPICAL LADDER PLATFORM**

SCALE: 1"=1'-0"



**SECTION B-B**

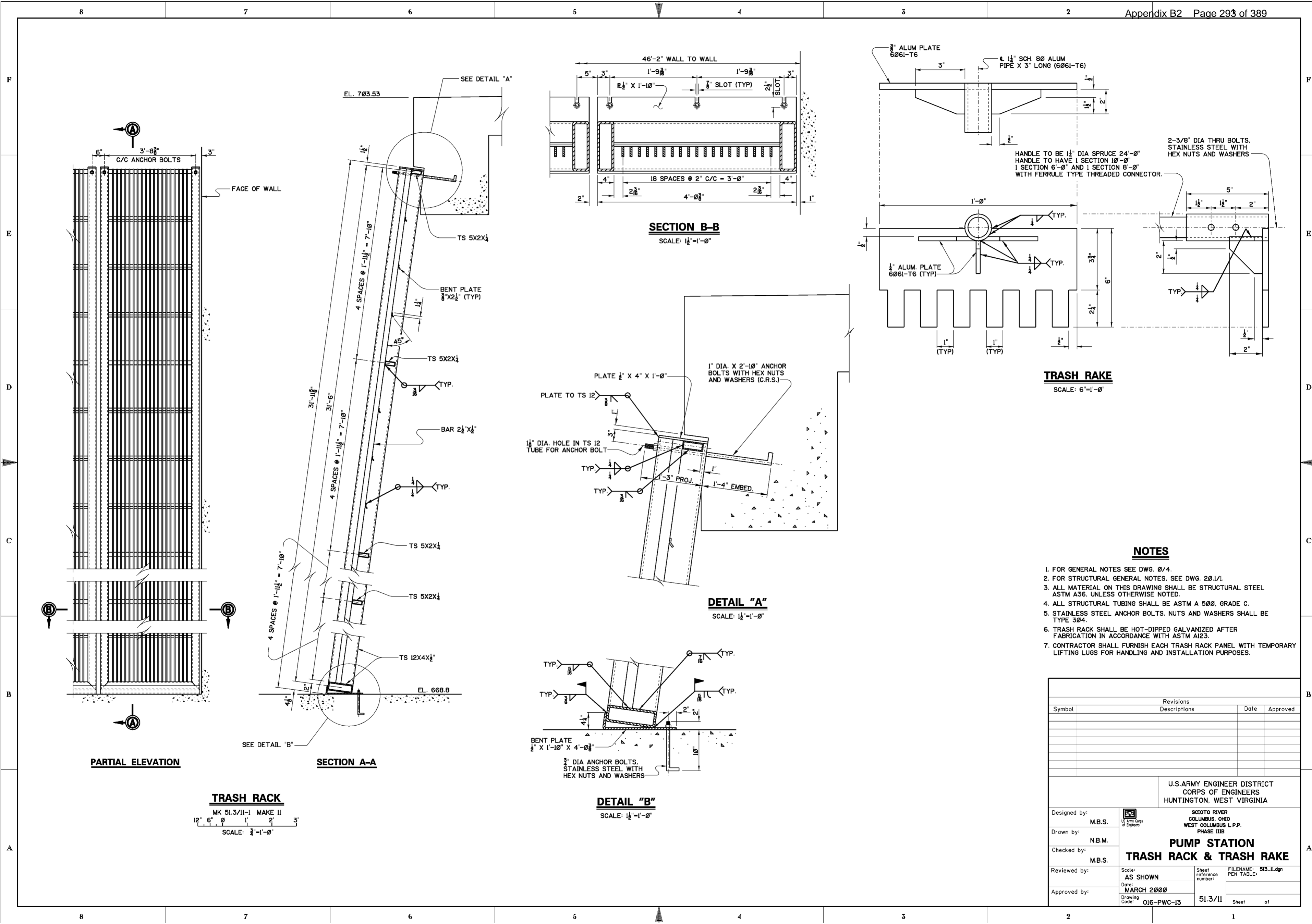
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20/1/1.
3. FOR MASONRY DETAILS SEE DWGS. 51.1/3 THRU 51.1/7.
4. FOR CONTROL BUILDING ARCHITECTURAL DETAILS, SEE DWGS. 51.2/1 AND 51.2/2.
5. CONCRETE COVER FOR REINFORCING BARS SHALL BE 4", UNLESS OTHERWISE SHOWN.

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	M.B.S.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>PUMP STATION                  REINF. - SLAB AT EL. 687.6                  &amp; MISCELLANEOUS DETAILS</b>	
Drawn by:	M.B.S.		
Checked by:	M.B.S.		
Reviewed by:	AS SHOWN		
Approved by:	MARCH 2000		
Scale:	AS SHOWN	Sheet reference number:	51.3/10
Drawing Code:	O16-PWC-13	FILENAME:	513.10.dgn
		PEN TABLE:	
		Sheet	of



**PARTIAL ELEVATION**

**TRASH RACK**  
MK 51.3/11-1 MAKE II  
12' 6" 0' 1' 2' 3'  
SCALE: 3/4"=1'-0"

**SECTION A-A**

**SECTION B-B**  
SCALE: 1/2"=1'-0"

**DETAIL "A"**  
SCALE: 1/2"=1'-0"

**DETAIL "B"**  
SCALE: 1/2"=1'-0"

**TRASH RAKE**  
SCALE: 6"=1'-0"

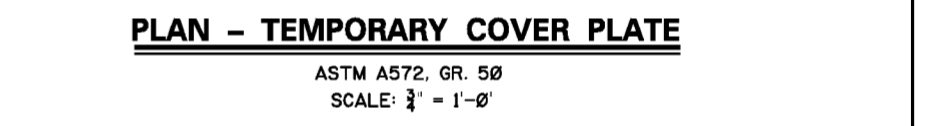
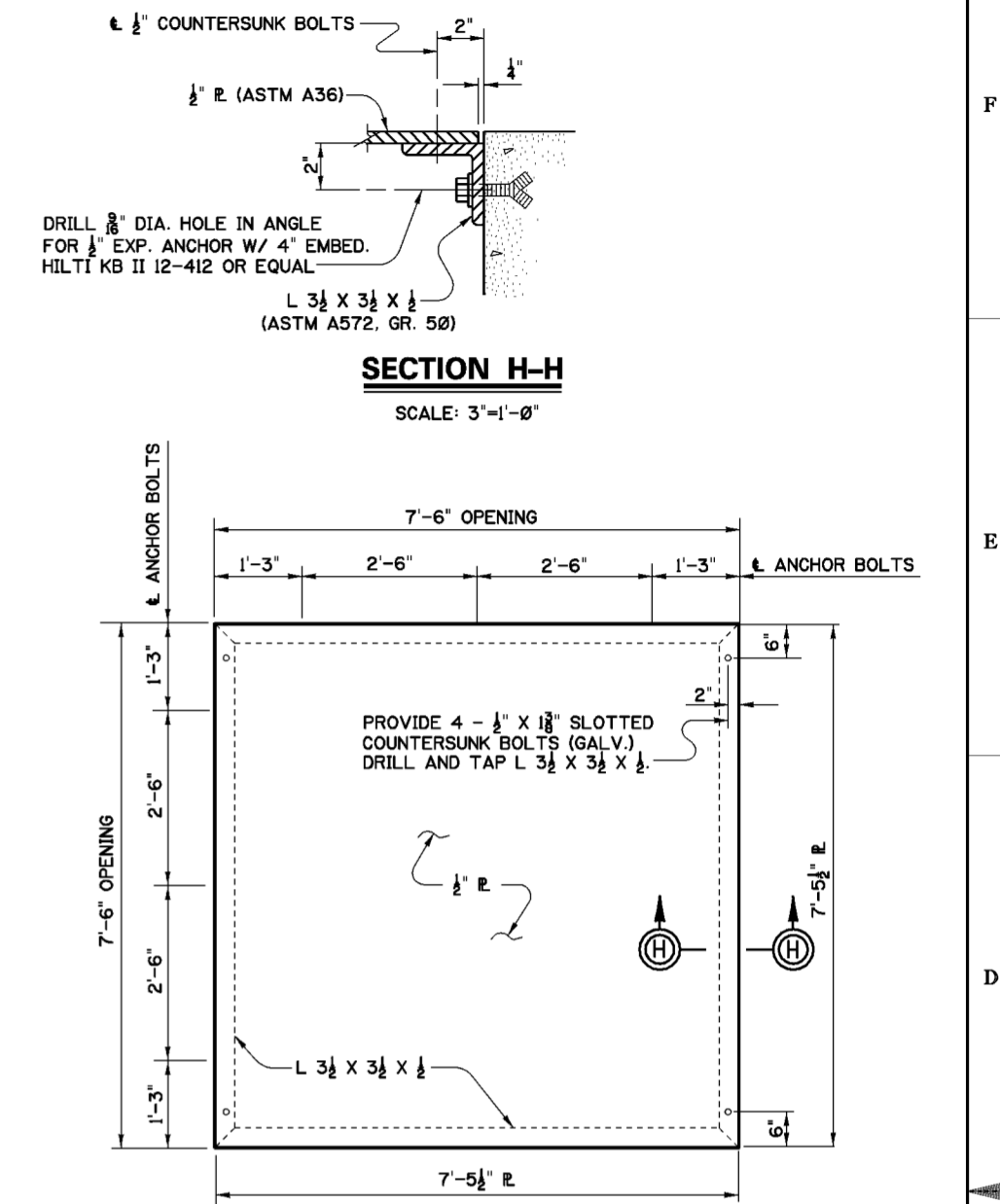
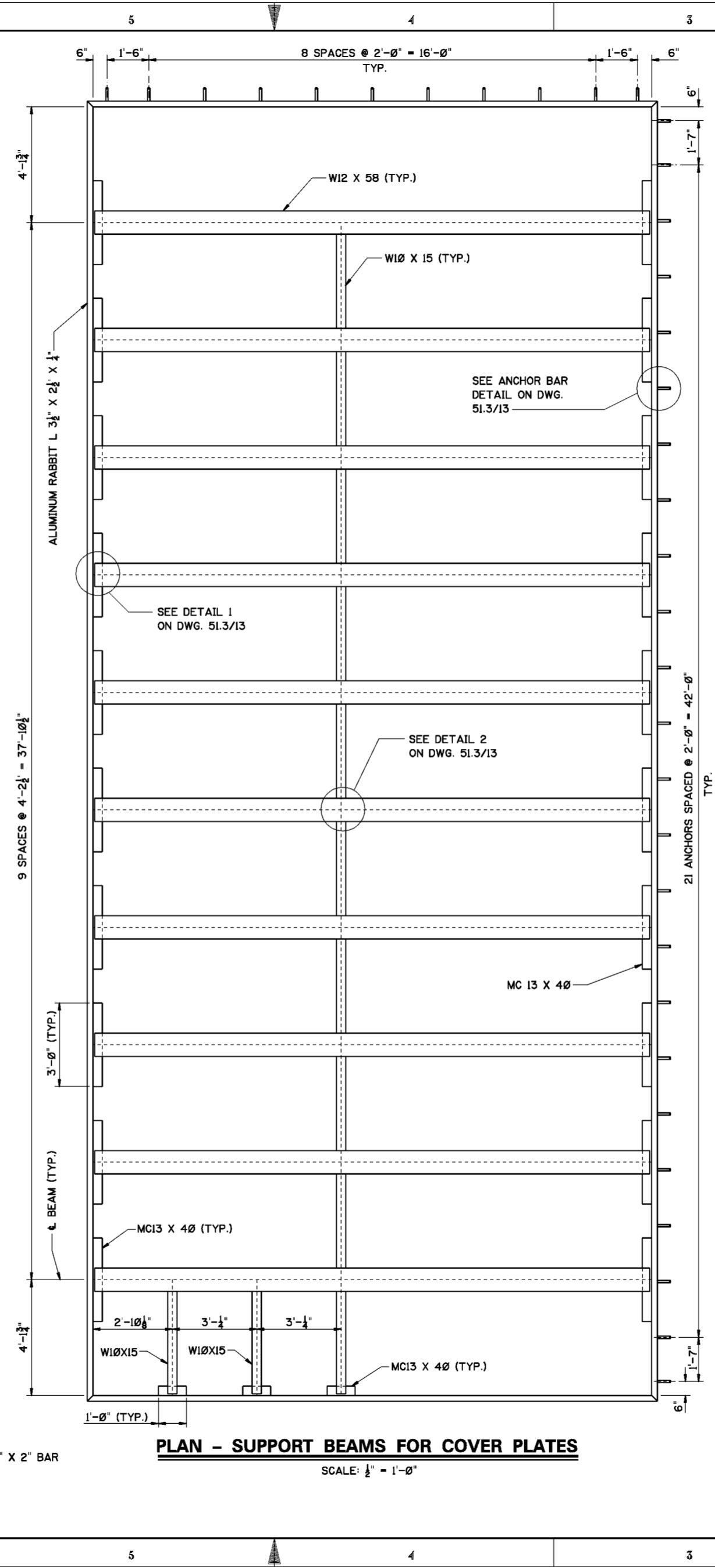
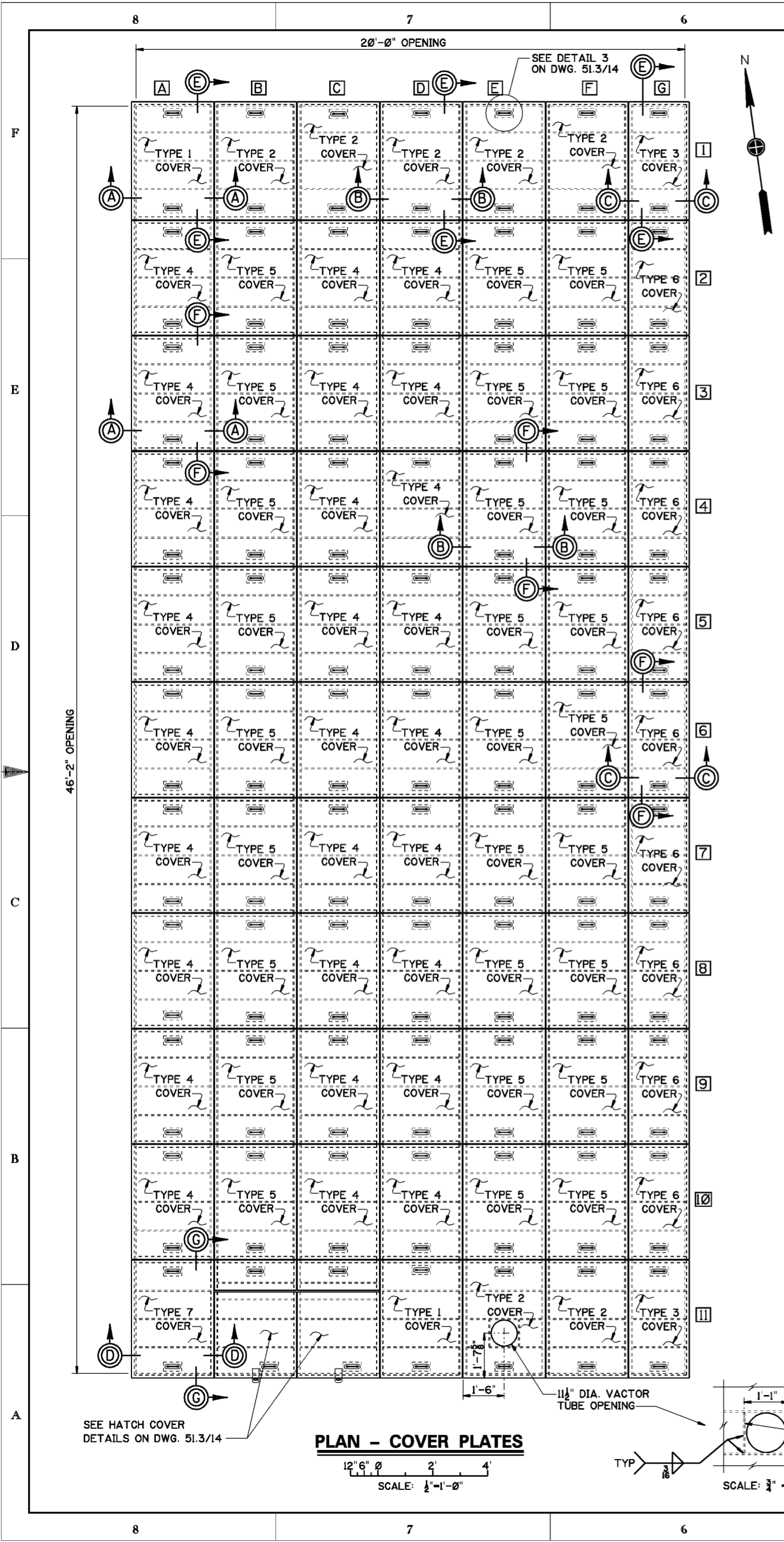
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1.
3. ALL MATERIAL ON THIS DRAWING SHALL BE STRUCTURAL STEEL ASTM A36, UNLESS OTHERWISE NOTED.
4. ALL STRUCTURAL TUBING SHALL BE ASTM A 500, GRADE C.
5. STAINLESS STEEL ANCHOR BOLTS, NUTS AND WASHERS SHALL BE TYPE 304.
6. TRASH RACK SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
7. CONTRACTOR SHALL FURNISH EACH TRASH RACK PANEL WITH TEMPORARY LIFTING LUGS FOR HANDLING AND INSTALLATION PURPOSES.

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA				
Designed by:	M.B.S.	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B <b>PUMP STATION                  TRASH RACK &amp; TRASH RAKE</b>		
Drawn by:	N.B.M.			
Checked by:	M.B.S.			
Reviewed by:				
Approved by:		Scale: AS SHOWN	Sheet reference number: 51.3/11	FILENAME: 513.11.dgn PEN TABLE:
		Date: MARCH 2000		
		Drawing Code: O16-PWC-13		

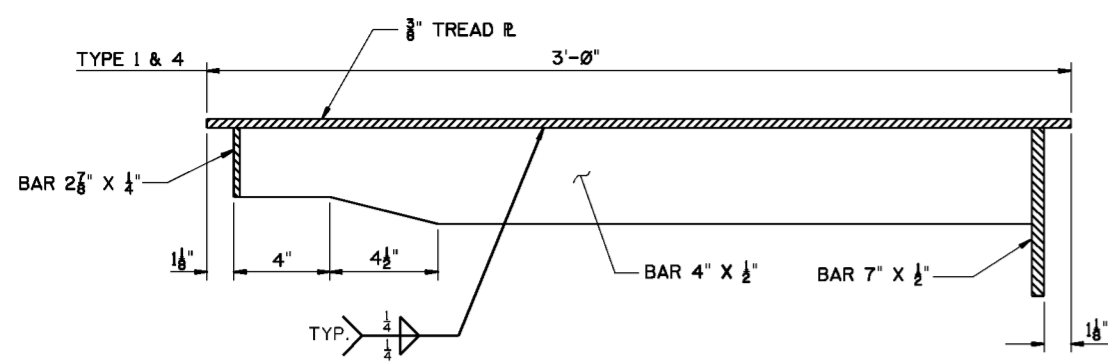


- NOTES**
1. FOR GENERAL NOTES SEE DWG. 0/4.
  2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1
  3. FOR COVER PLATE AND SUPPORT BEAM DETAILS, SEE DWG. 51.3/13.
  4. FOR HATCH COVER DETAILS, SEE DWG. 51.3/14.
  5. ALL SUPPORT BEAMS AND CHANNELS SHALL BE STRUCTURAL STEEL, ASTM A572, GR. 50.
  6. ALL COVER PLATES AND HATCH COVERS SHALL BE ALUMINUM 6061-T6.
  7. ALUMINUM THAT COMES IN CONTACT WITH STEEL AND/OR CONCRETE SHALL RECEIVE A HEAVY COAT OF BITUMINOUS PAINT.
  8. EACH COVER PLATE SHALL BE PERMANENTLY LABELED [A1], [A2], [A3], ETC., AND INSTALLED AS INDICATED ON PLAN. LABELS SHALL BE PLACED ON LONGITUDINAL STIFFENERS OF COVER PLATES.
  9. FOR LOCATION OF TEMPORARY COVER PLATE SEE DWG. 51.1/5.

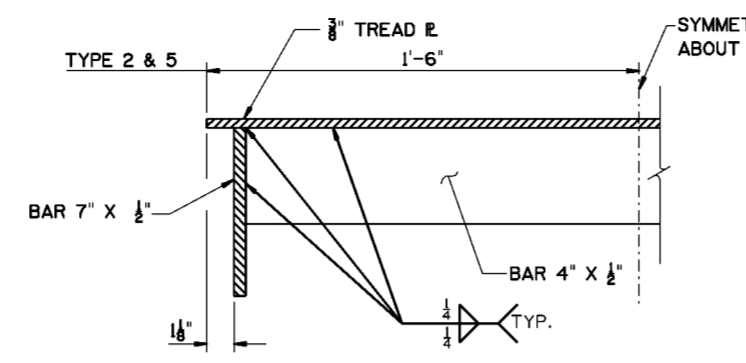
Revisions			
Symbol	Descriptions	Date	Approved

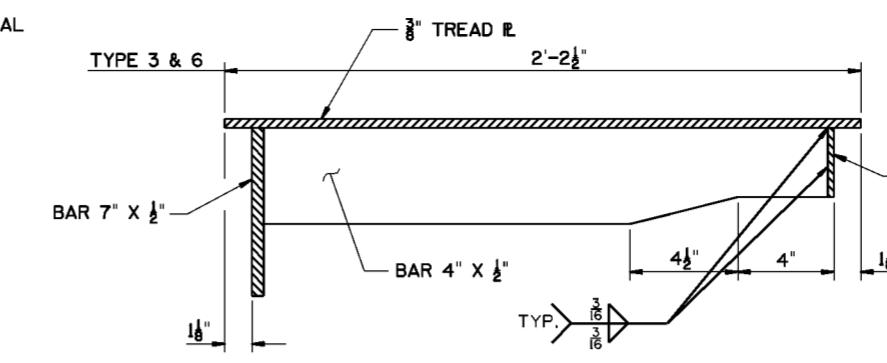
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S.	 M.B.S. 10 Army Corps of Engineers	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	
Drawn by: J.C.C. B.W.D.		<b>PUMP STATION COVER PLATES - PLAN</b>	
Checked by: M.B.S.	Scale: AS SHOWN	Sheet reference number: 51.3/12	FILENAME: 513_12.dgn
Reviewed by:	Date: MARCH 2000	PEN TABLE:	
Approved by:	Drawing Code: O16-PWC-13	51.3/12	Sheet of



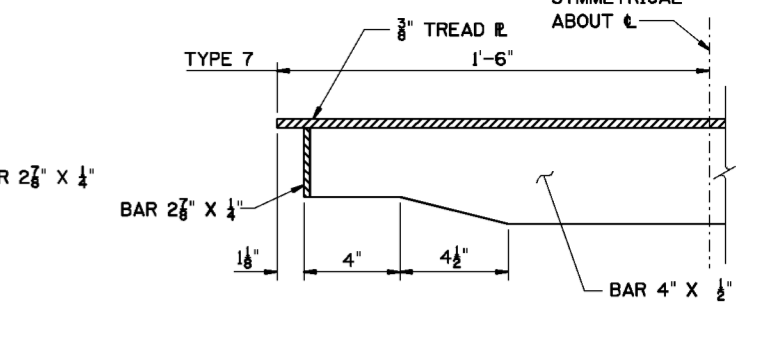
**SECTION A-A**



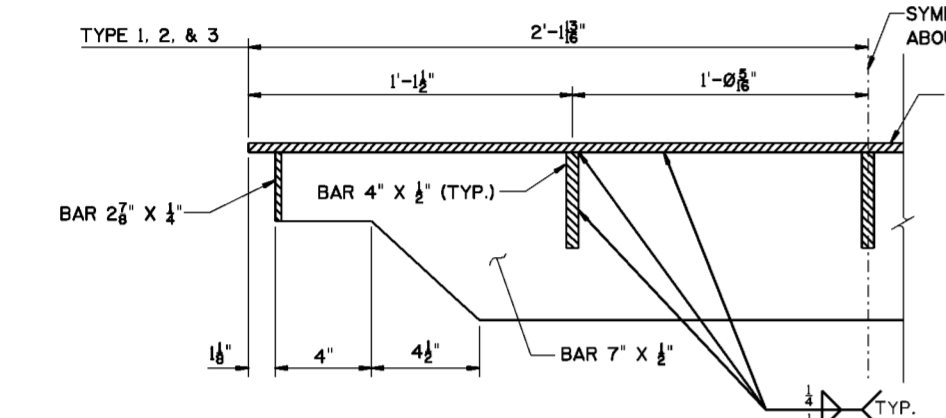
**SECTION B-B**



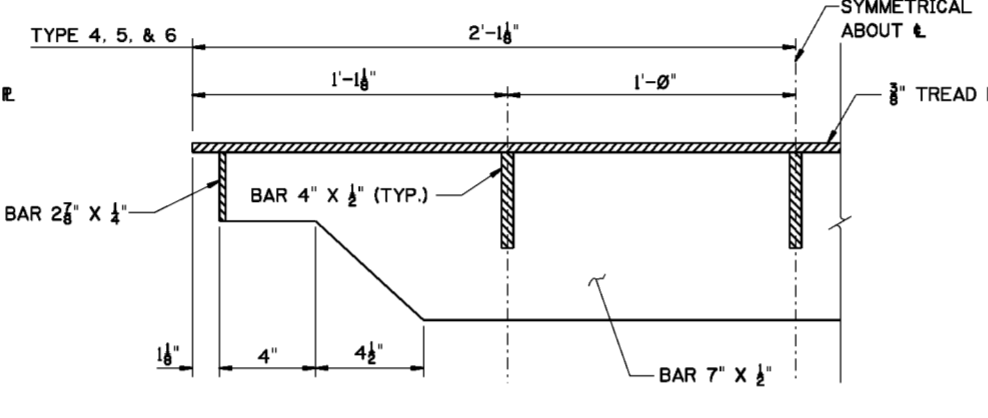
**SECTION C-C**



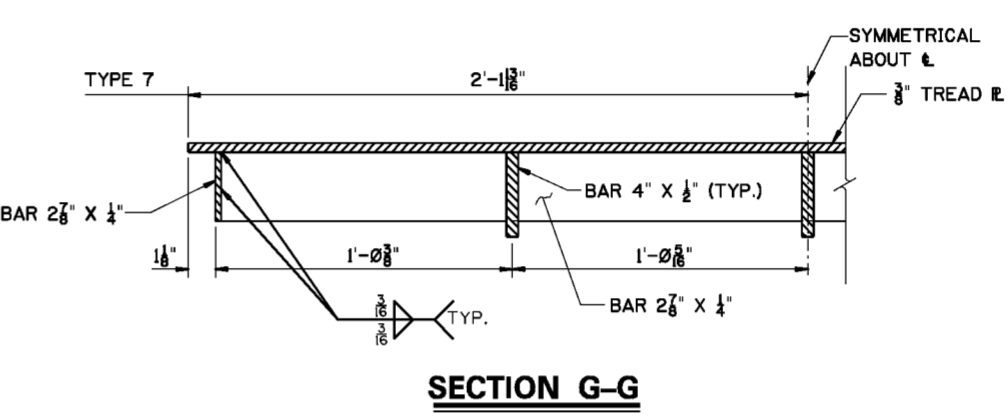
**SECTION D-D**



**SECTION E-E**



**SECTION F-F**

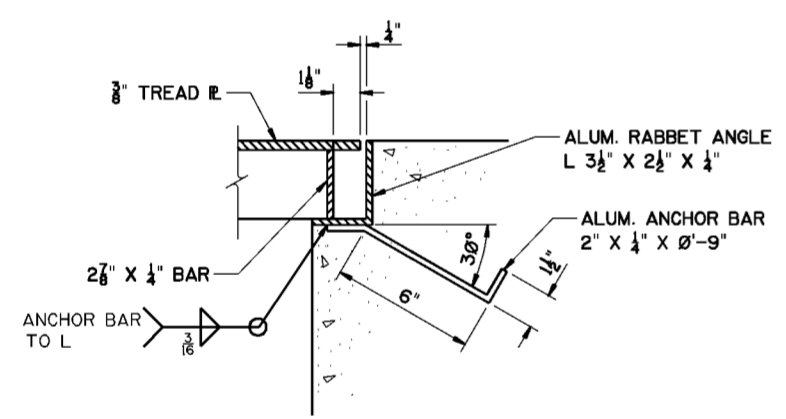


**SECTION G-G**

**COVER PLATES**

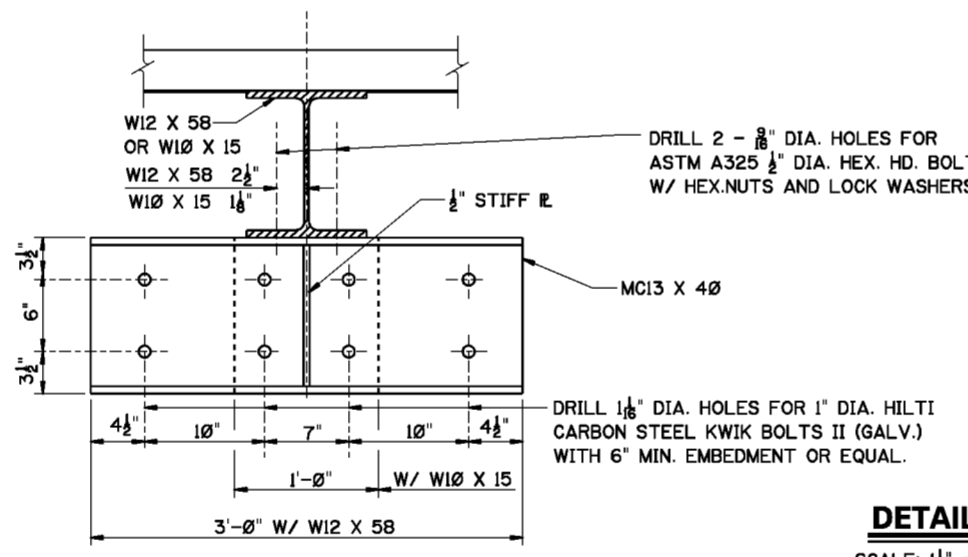
TYPE 1	MAKE 2	TYPE 5	MAKE 27
TYPE 2	MAKE 7	TYPE 6	MAKE 9
TYPE 3	MAKE 2	TYPE 7	MAKE 1
TYPE 4	MAKE 27		

SCALE: 3" = 1'-0"



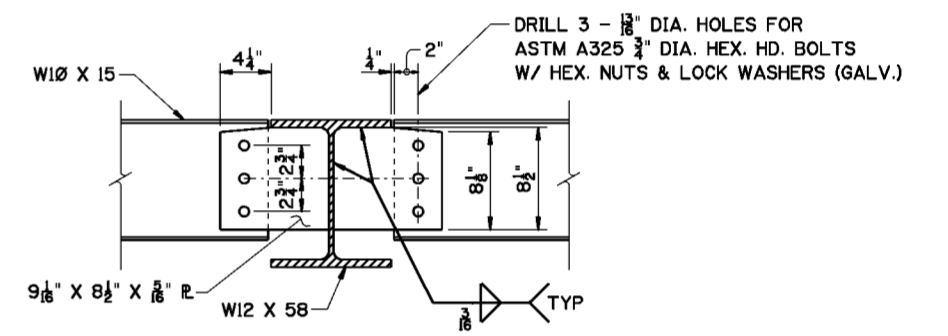
**ANCHOR BAR DETAIL**

SCALE: 3" = 1'-0"



**DETAIL 1**

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

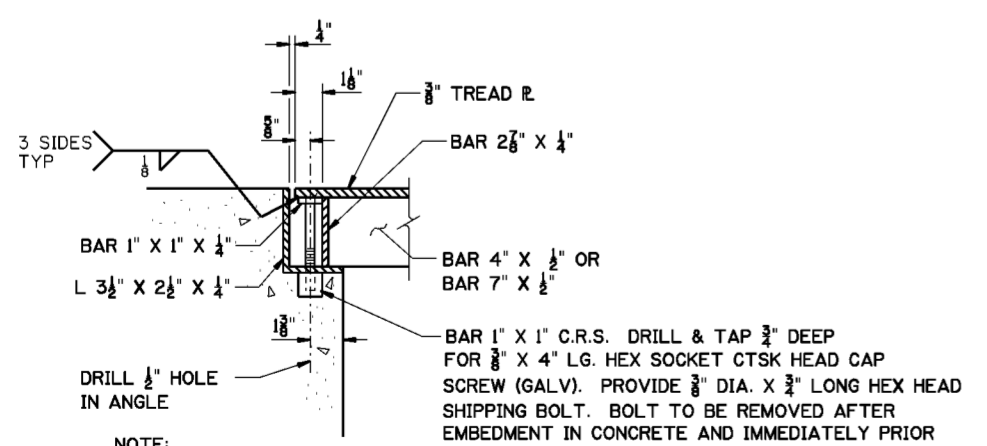


**DETAIL 2**

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

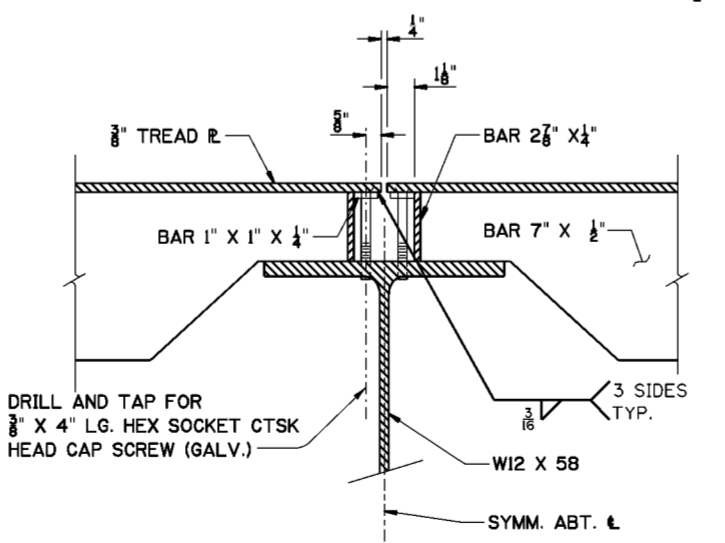
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1
3. FOR MATERIAL REQUIREMENTS, SEE DWG. 51.3/12.
4. FOR LOCATION OF DETAILS 1 AND 2, SEE DWG. 51.3/12.
5. APPLY ANTI-SIEZE COMPOUND TO THE 3/8" X 4" LG. HEX SOCKET CTSK. HEAD CAP SCREWS PRIOR TO INSTALLATION.



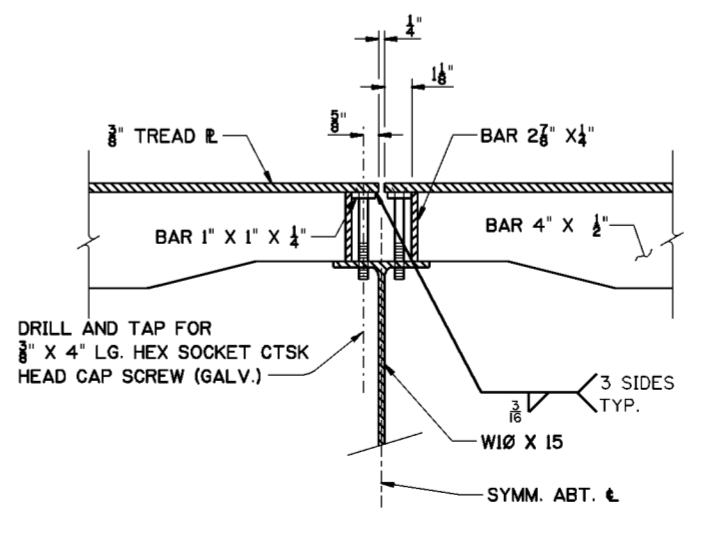
**FASTENER DETAILS**

SCALE: 3" = 1'-0"



**FASTENER DETAILS**

SCALE: 3" = 1'-0"



**FASTENER DETAILS**

SCALE: 3" = 1'-0"

Revisions			
Symbol	Descriptions	Date	Approved

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

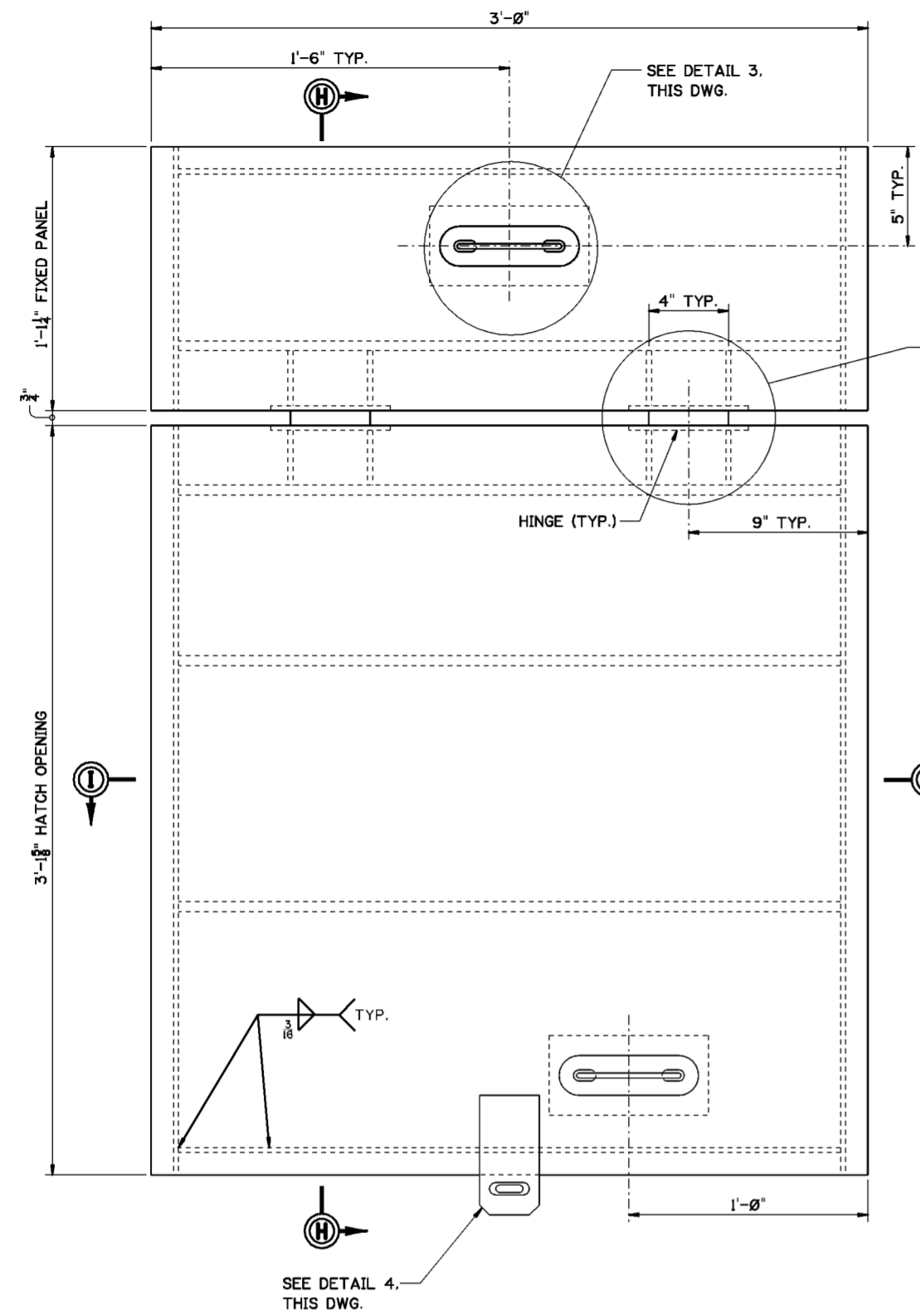
Designed by: M.B.S.  
Drawn by: J.C.C.  
Checked by: M.B.S.  
Reviewed by: M.B.S.  
Approved by: M.B.S.

SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

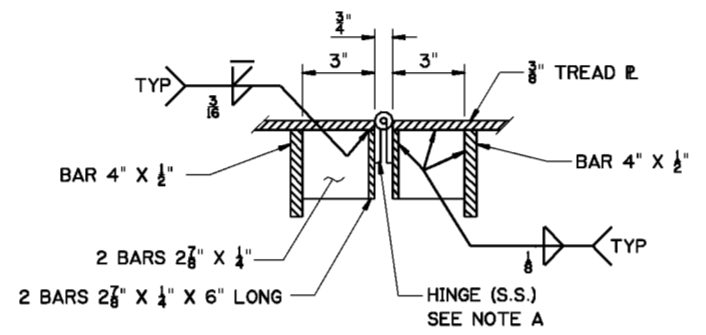
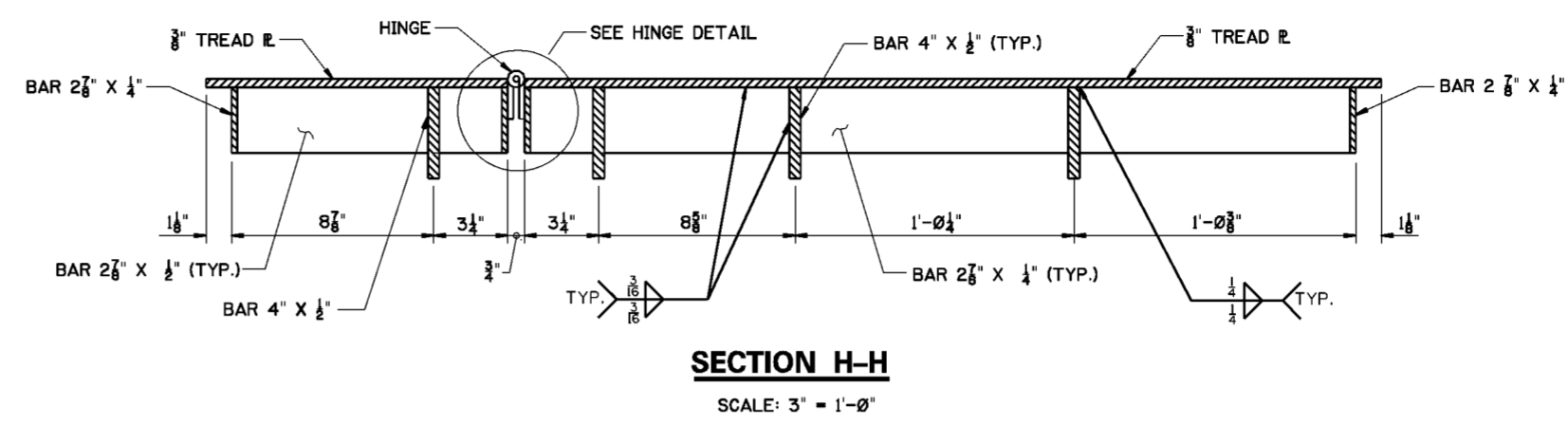
**PUMP STATION  
COVER PLATES - SECTIONS  
AND DETAILS**

Scale: AS SHOWN  
Date: MARCH 2000  
Drawing Code: O16-PWC-13

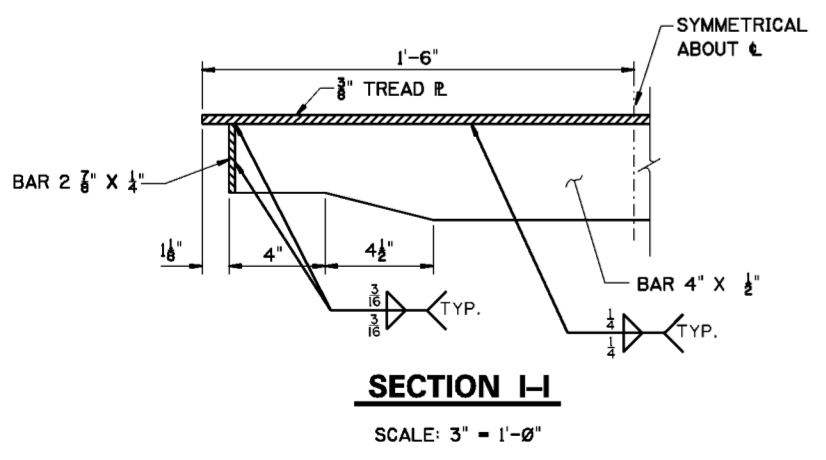
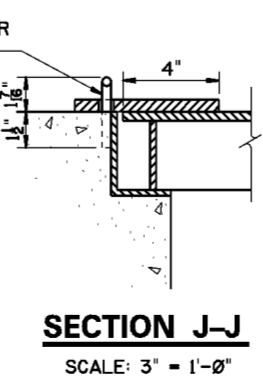
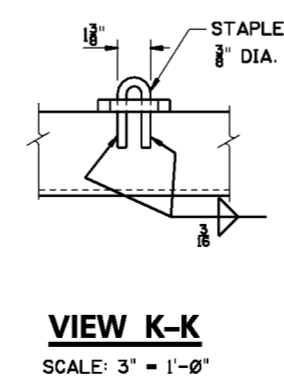
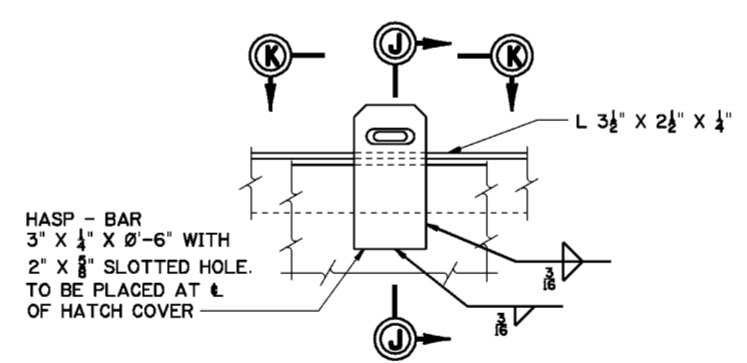
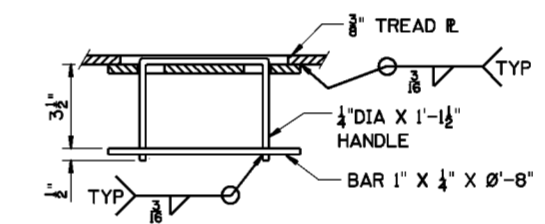
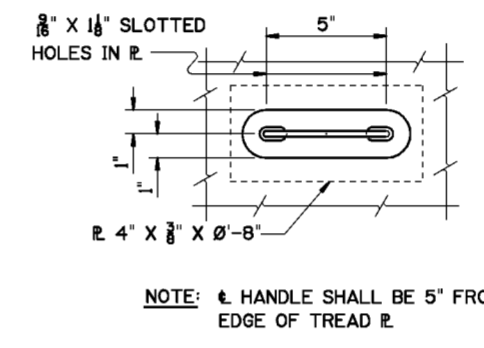
Sheet reference number: 51.3/13  
FILENAME: 513\_13.dgn  
PEN TABLE:  
Sheet of



**HATCH COVER**  
MAKE 2  
SCALE: 3" = 1'-0"



**NOTE A**  
HINGE 4" X 4" S.S. SURFACE HINGE WITH 3-3/8" S.S. CTSK HEX SOCKET HEAD BOLTS EACH SIDE W/HEX NUT S.S. & LOCK WASHER S.S. (TYP)



**NOTES**

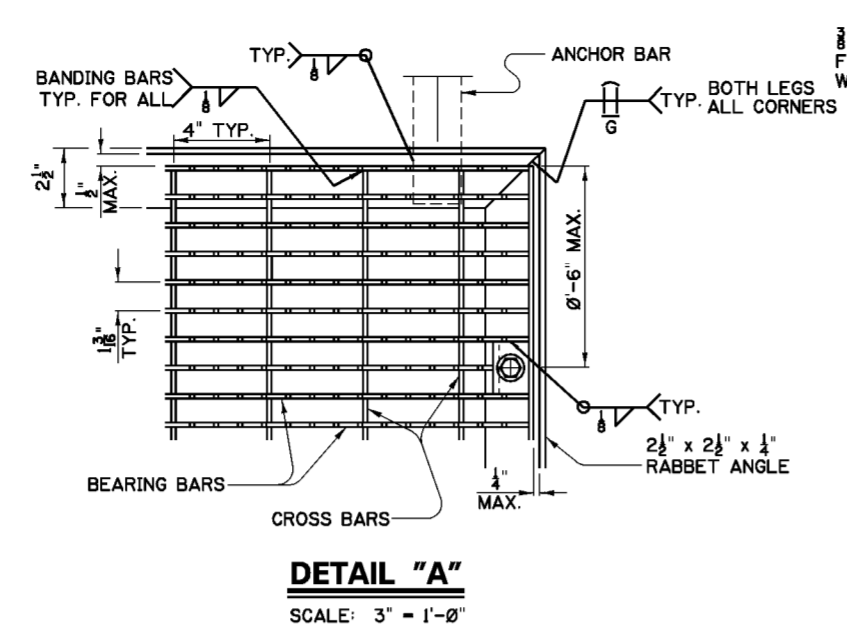
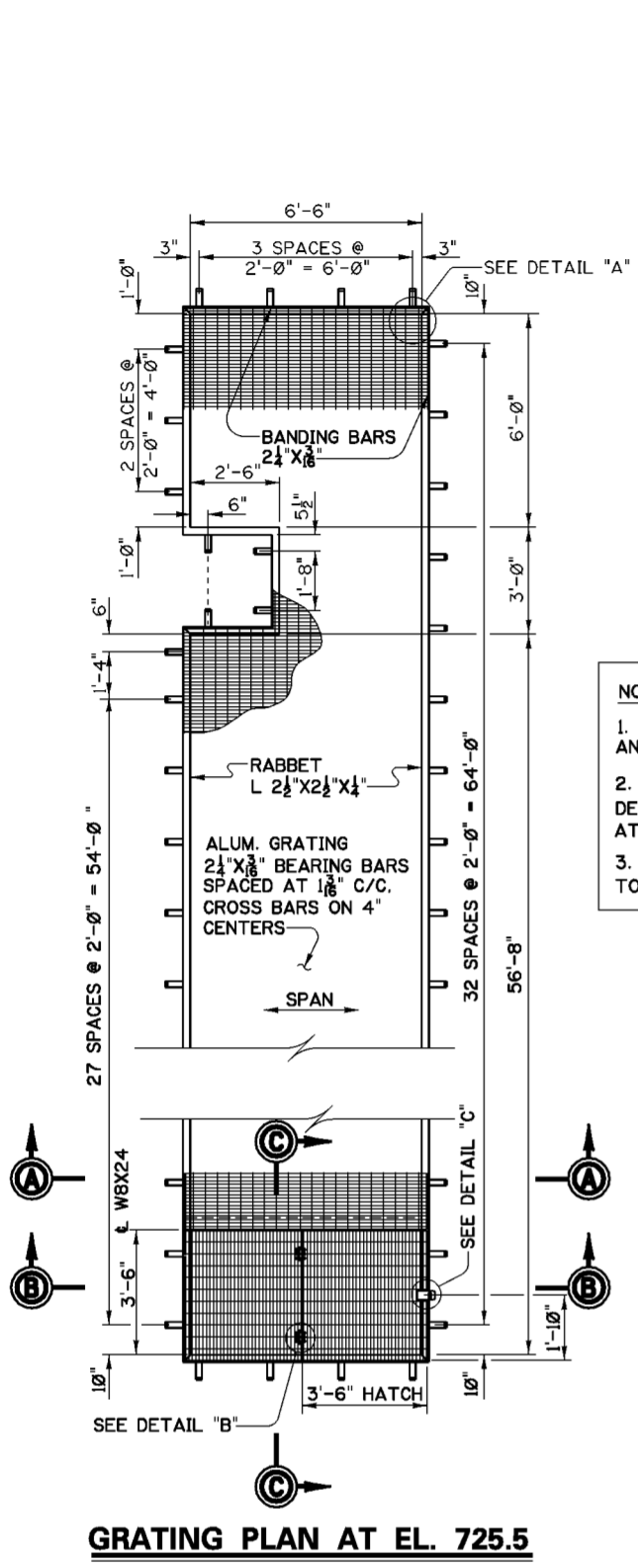
1. FOR GENERAL NOTES, SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1
3. FOR MATERIAL REQUIREMENTS SEE, DWG. 51.3/12.
4. FOR LOCATION OF HATCH COVERS, SEE DWG. 51.3/12
5. PADLOCKS FOR HATCH COVERS SHALL BE KEYED ALIKE.

Revisions			
Symbol	Descriptions	Date	Approved

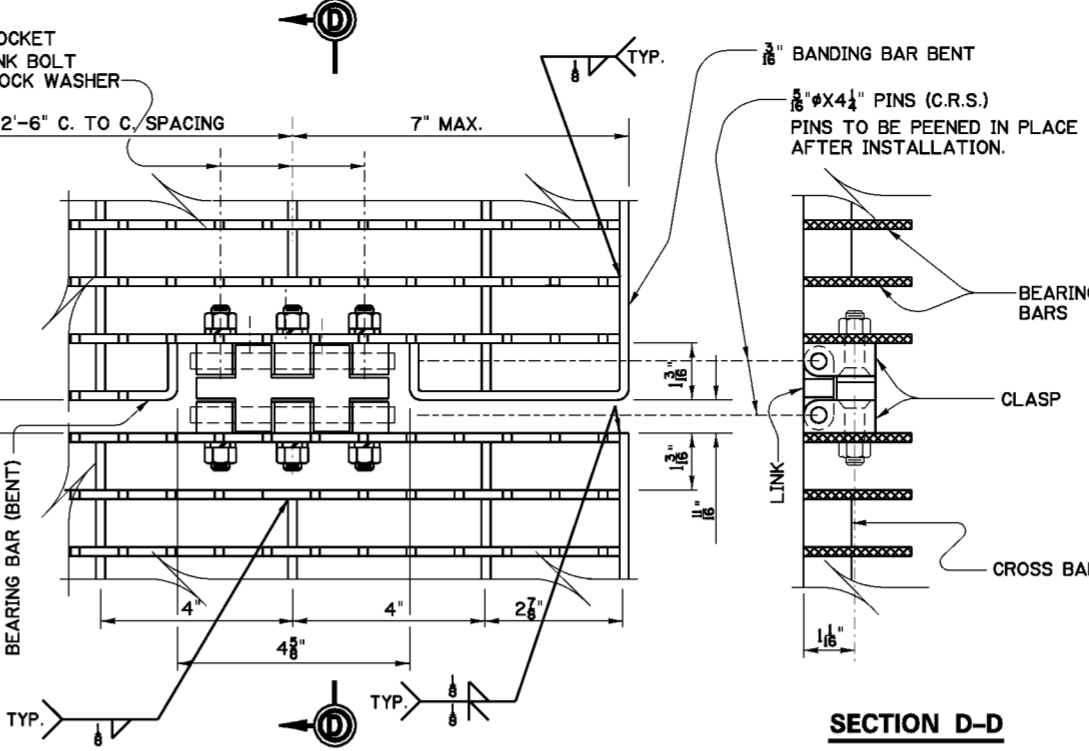
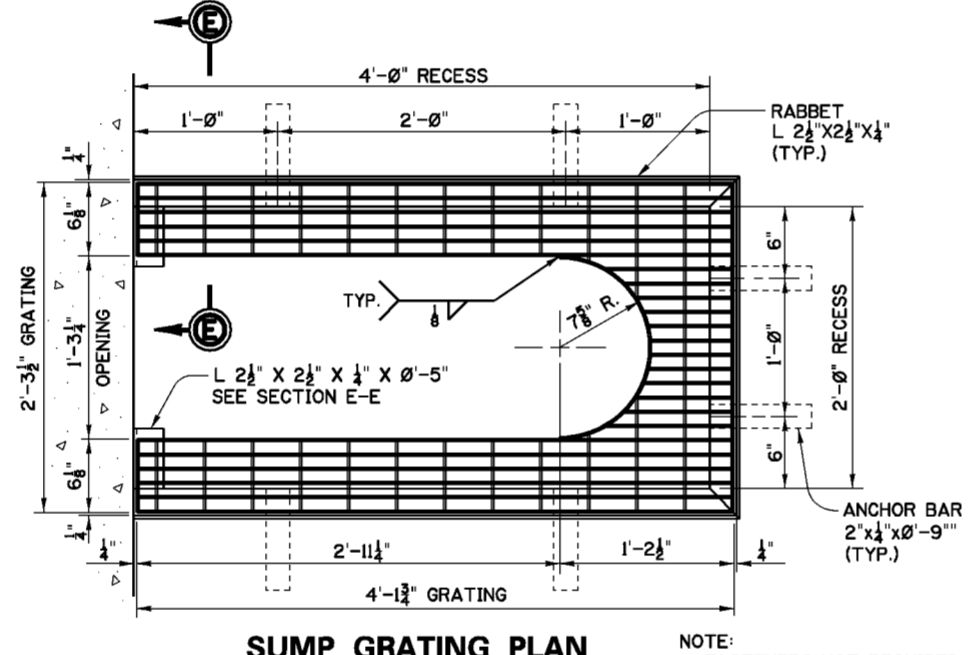
U.S. ARMY ENGINEER DISTRICT COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III			
Designed by: M.B.S.	<b>PUMP STATION HATCH COVER - SECTIONS AND DETAILS</b>	Scale: AS SHOWN	Sheet reference number:
Drawn by: J.C.C.		Date: MARCH 2000	FILENAME: PEN TABLE: 513_14.dgn
Checked by: M.B.S.	Reviewed by:	Drawing Code: O16-PWC-13	51.3/14 Sheet of



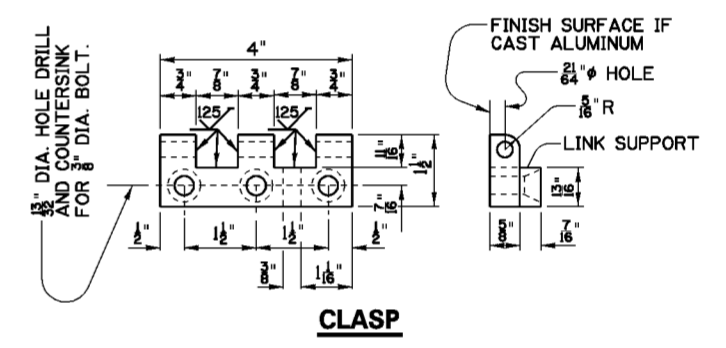
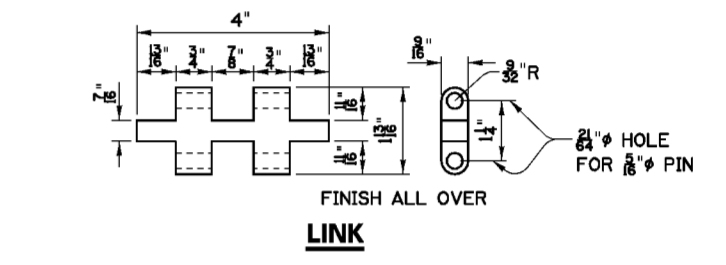
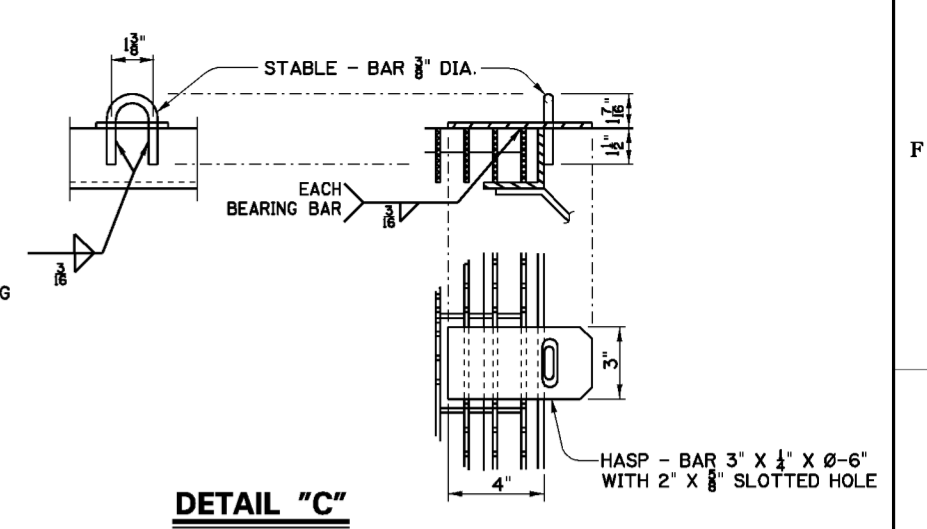
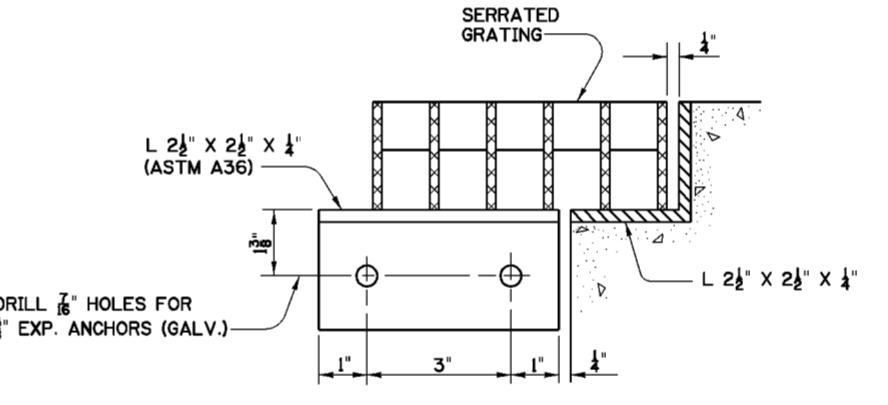


**NOTE:**

- ALL ALUMINUM SURFACES WHICH COME IN CONTACT WITH CONCRETE AND/OR STEEL SHALL BE PAINTED WITH A HEAVY COAT OF BITUMINOUS PAINT.
- GRATING SHALL BE ALUMINUM, SERRATED SURFACED, PRESS LOCK RECTANGULAR DESIGN WITH 2 1/4" X 3/8" BEARING BAR SPACED AT 1 3/8" C/C AND 1" CROSS BARS SPACED AT 4" C/C. BANDING BARS SHALL BE WELDED.
- PROVIDE A TOTAL OF 4 FASTENERS FOR PANEL WIDTHS OF 2'-0" OR LESS AND A TOTAL OF 6 FASTENERS FOR PANEL WIDTHS GREATER THAN 2'-0".

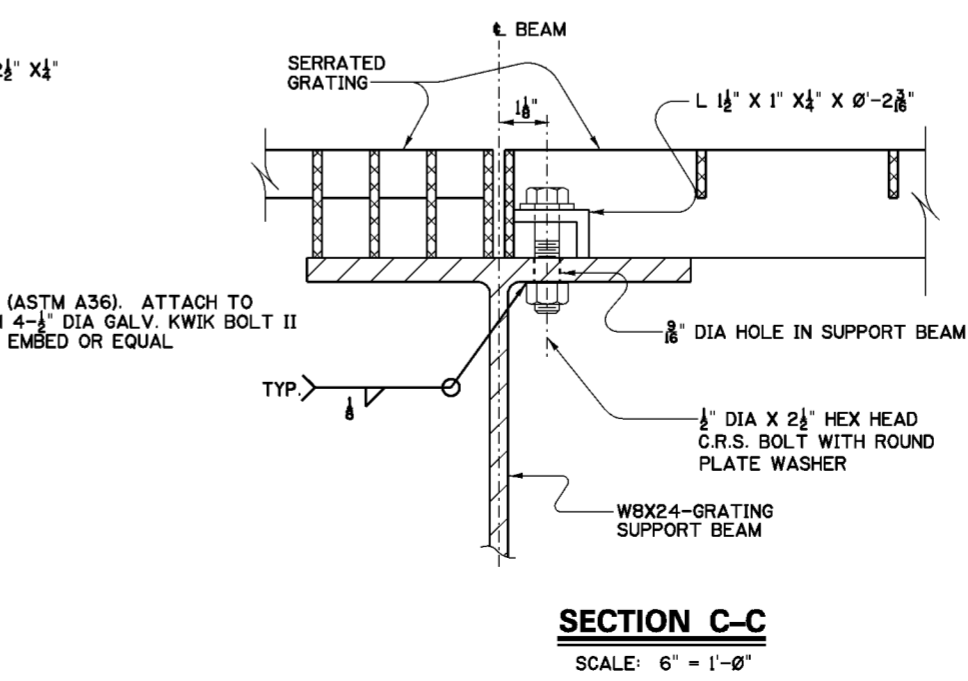
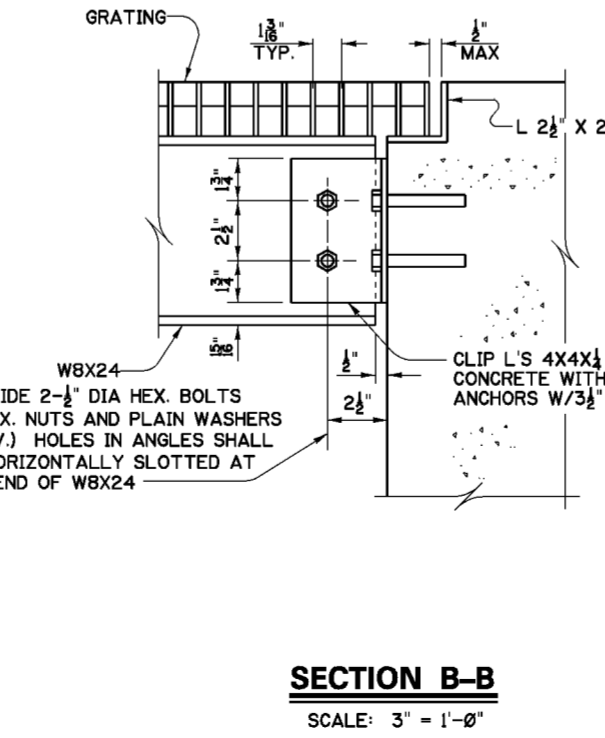
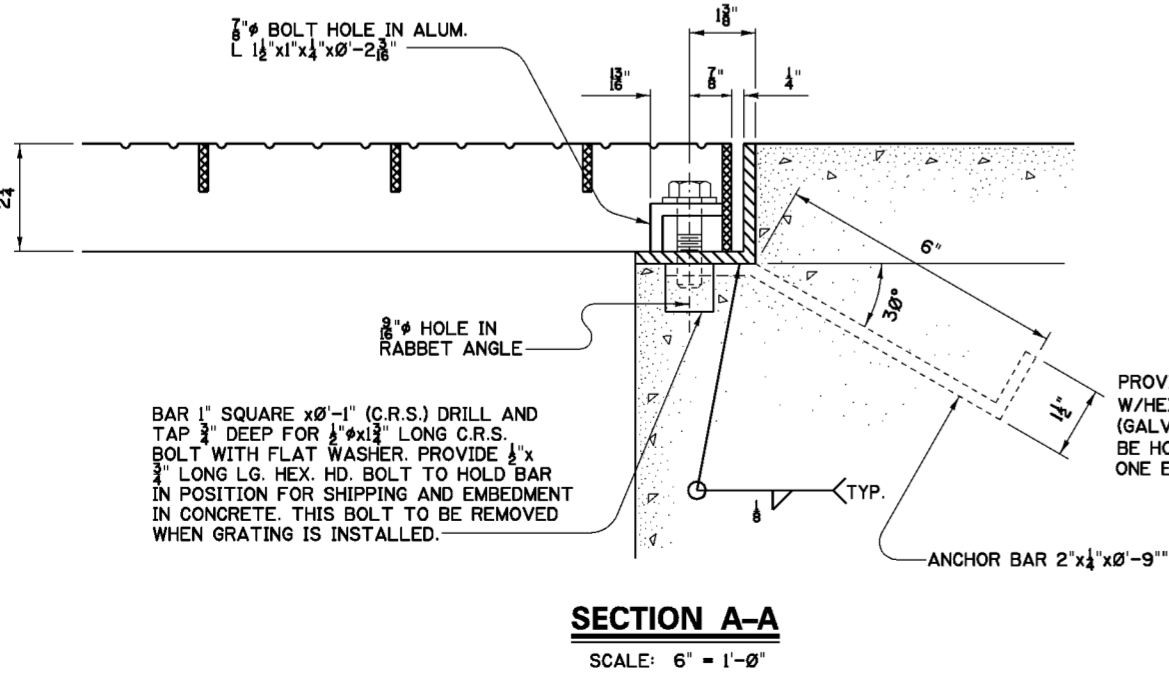


**DETAIL "B" - HINGE ASSEMBLY**  
SCALE: 6" = 1'-0"



**NOTE:**  
HINGES MAY BE FABRICATED FROM ALUM. BARS 6061-T6 OR FROM CAST ALUM. ALCOA 195-76 OR EQUAL.

**HINGE DETAILS**  
SCALE: 6" = 1'-0"

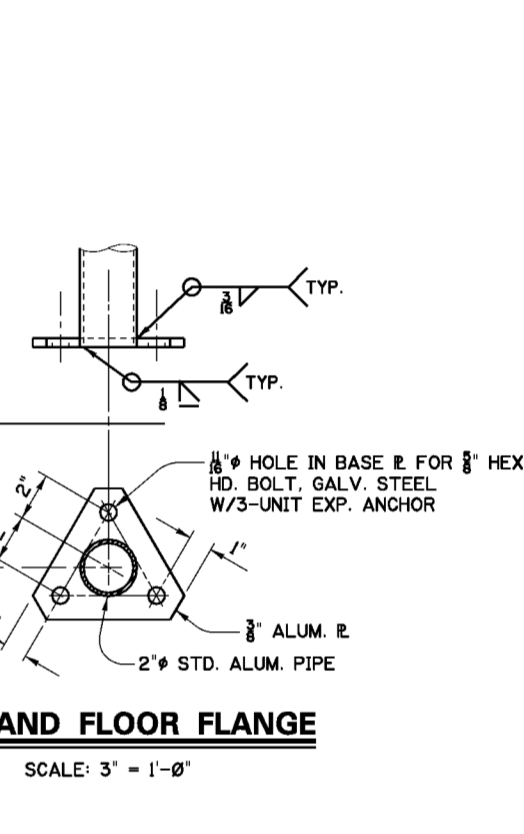
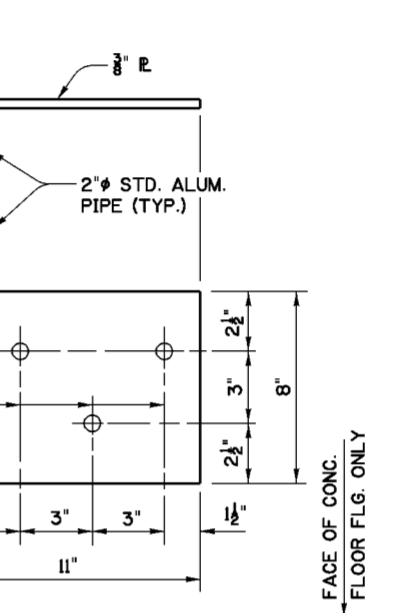
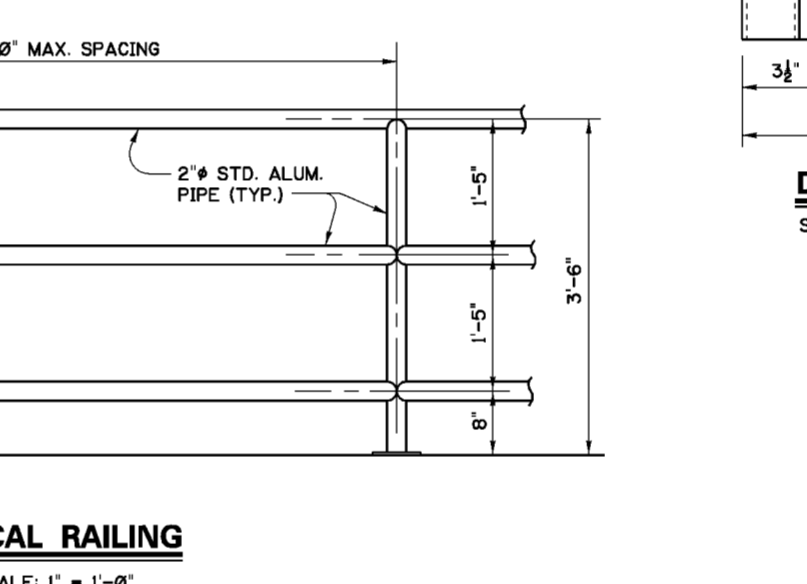
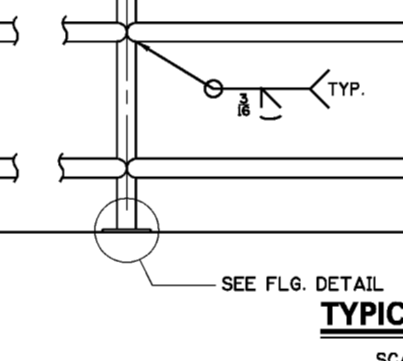
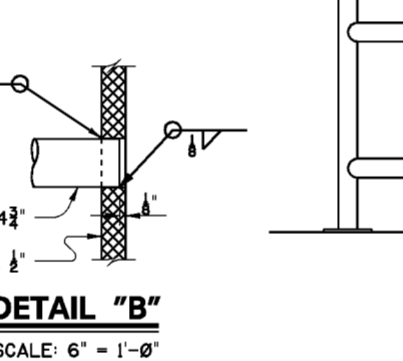
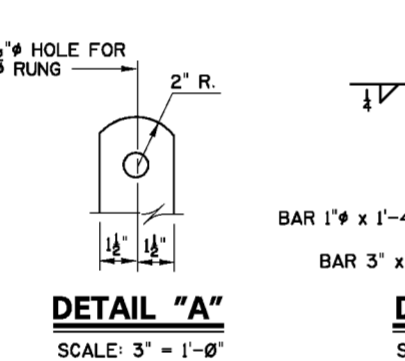
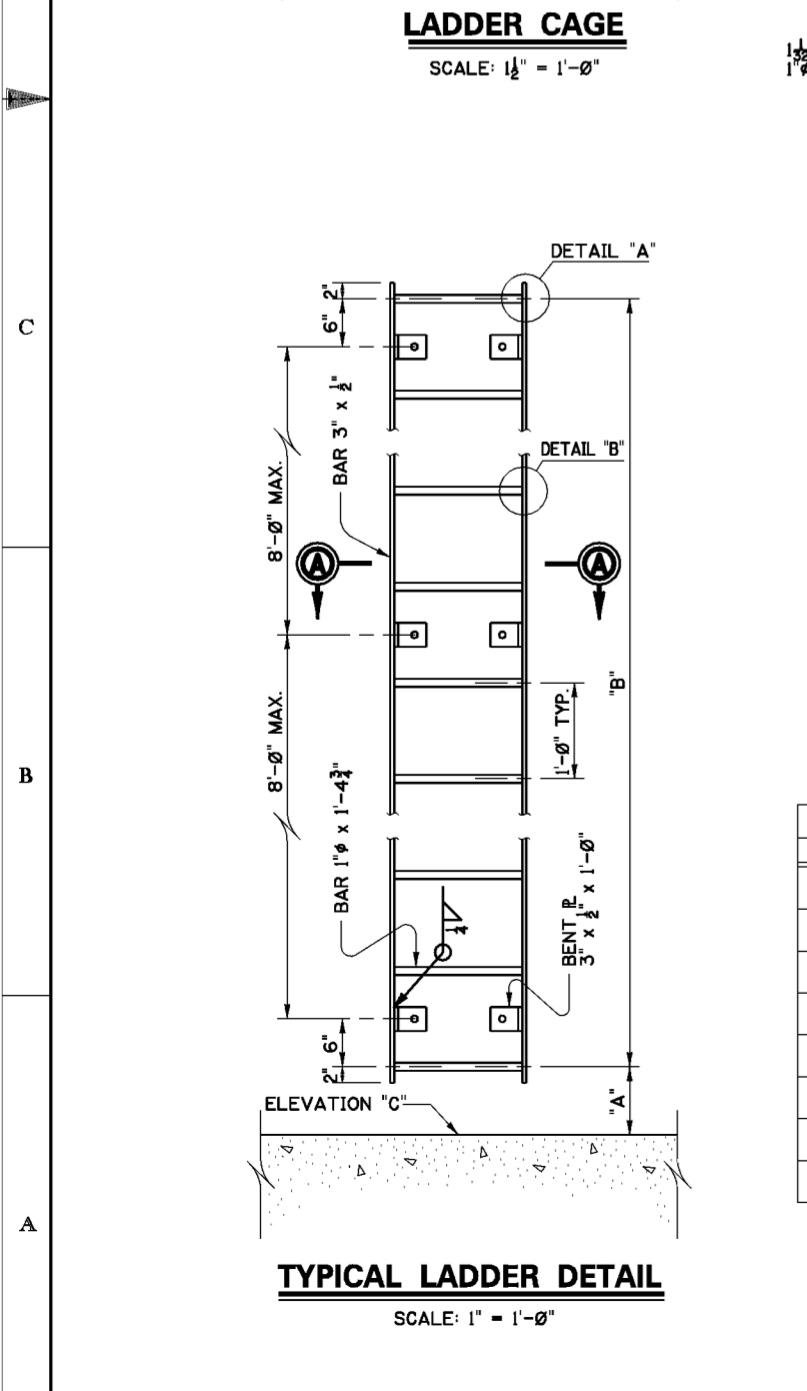
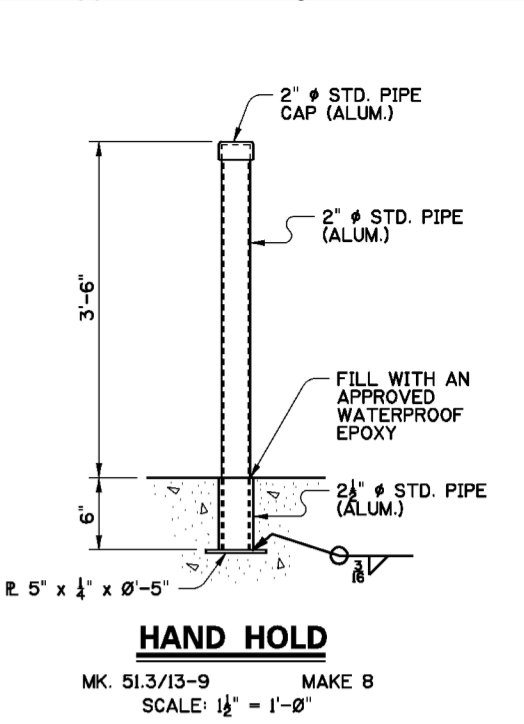
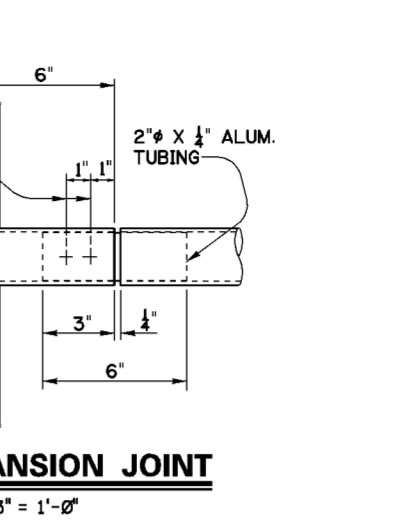
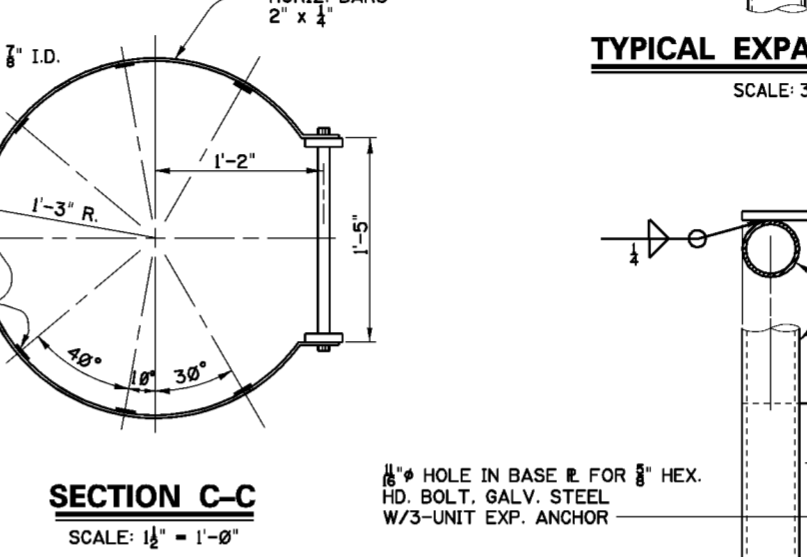
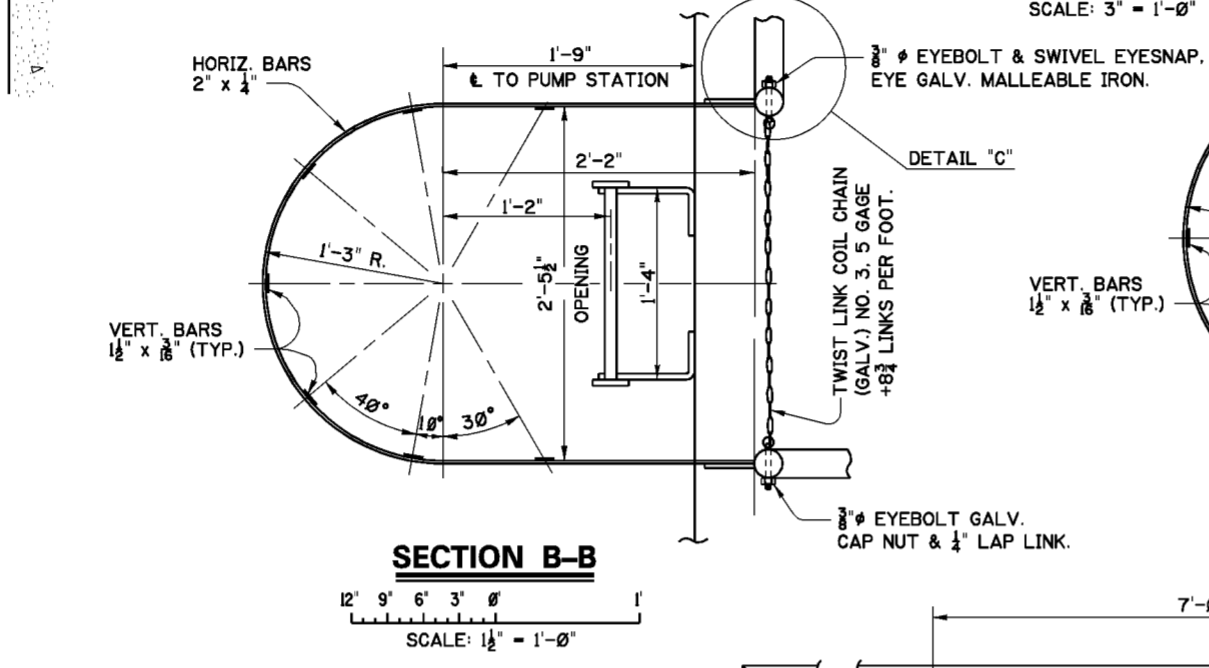
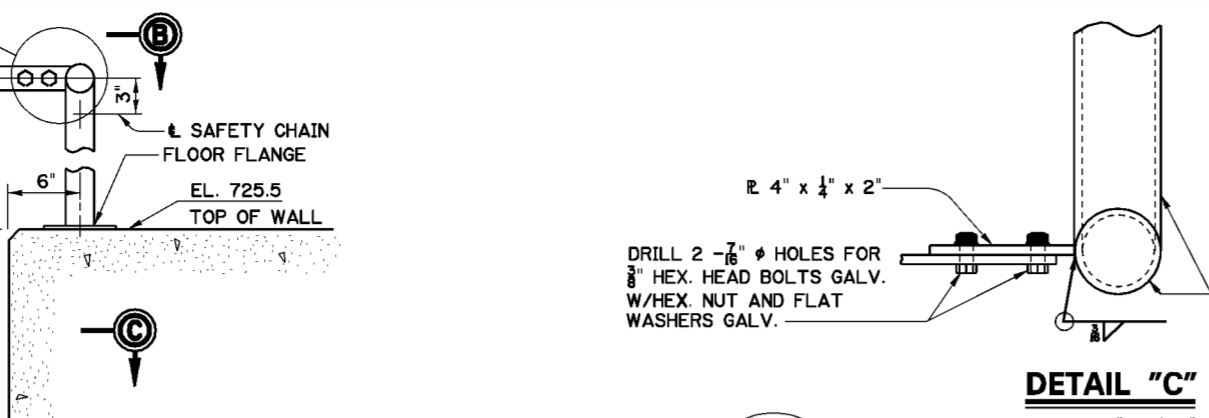
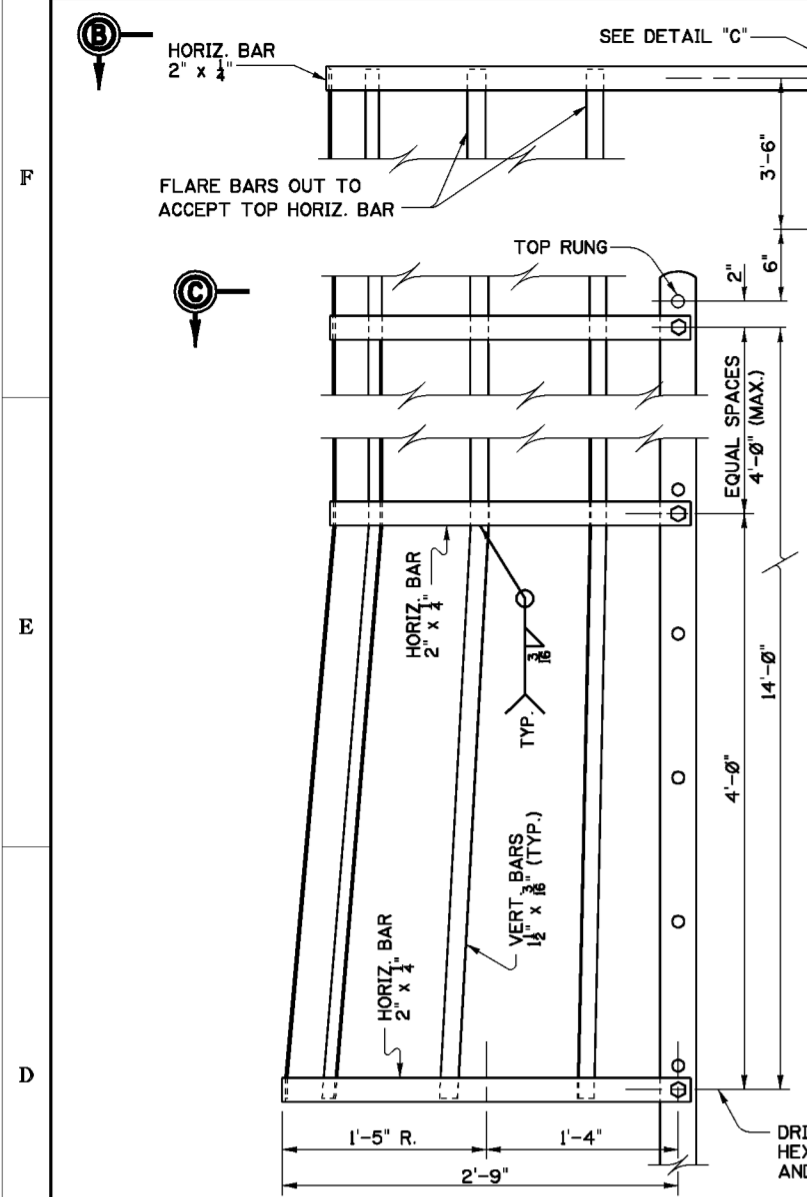


- NOTES**
- FOR GENERAL NOTES SEE DWG. 0/4.
  - FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1.
  - FOR GRATING LOCATION SEE DWG. 51.1/5.
  - FOR SUMP GRATING LOCATION SEE DWG. 51.1/4.
  - ALL MATERIAL ON THIS DWG. SHALL BE ALUMINUM ALLOY 6061-T6 UNLESS OTHERWISE NOTED.

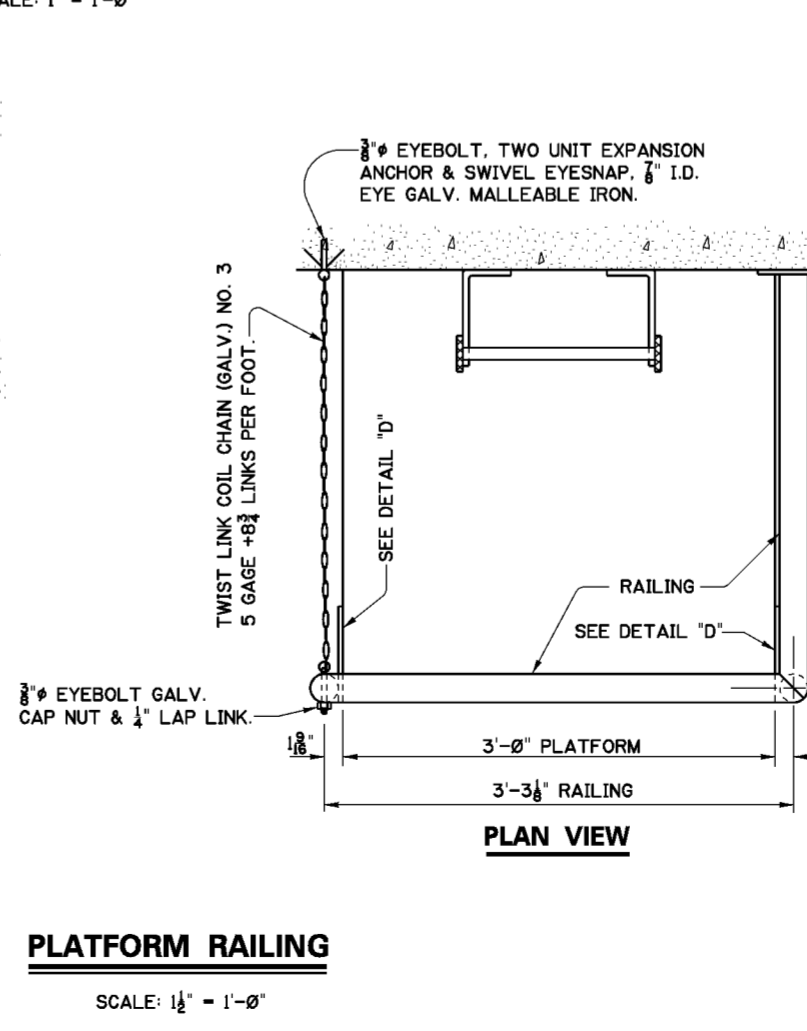
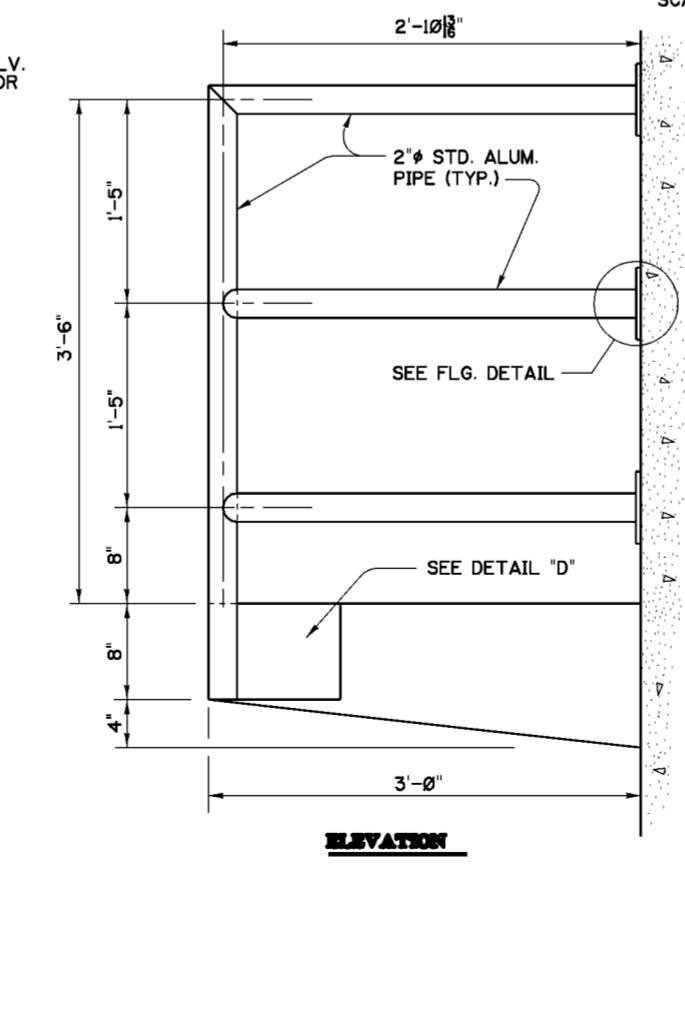
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPUS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	
Designed by: M.B.S.	Drawn by: N.B.M. B.W.D.	<b>PUMP STATION                  GRATING &amp; HINGE DETAILS</b>	
Checked by: B.W.D. M.B.S.	Reviewed by:	Scale: AS SHOWN	Sheet reference number: 51.3/15
Approved by:	Date: MARCH 2000	Drawing Code: O16-PWC-13	FILENAME: PEN TABLE: 51.3_15.dgn Sheet of



LADDER DIMENSIONS & ELEVATIONS			
MK. NO. S	"A"	"B"	EL. "C"
51.3/16-1	12"	20'-0"	704.0
51.3/16-2	12"	20'-0"	687.41
51.3/16-3	9"	17'-0"	684.8
51.3/16-4	12"	19'-0"	668.8
51.3/16-5	9"	17'-0"	684.8
51.3/16-6	11"	19'-0"	668.69
51.3/16-7	6"	15'-0"	687.37
51.3/16-8	6"	21'-0"	703.5



- NOTES**
- FOR GENERAL NOTES SEE DWG. 0/4.
  - FOR STRUCTURAL GENERAL NOTES SEE DWG. 20/1/1.
  - ALL MATERIAL ON THIS DWG. SHALL BE ALUMINUM ALLOY 6061-T6 UNLESS OTHERWISE NOTED.
  - FOR LOCATION OF LADDERS, CAGE, AND RAILING SEE DWGS. 51.1/3 THRU 51.1/6.
  - EXPANSION JOINTS IN RAILING SHALL BE SPACED AT 28'-0" MAXIMUM.

Revisions			
Symbol	Descriptions	Date	Approved

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

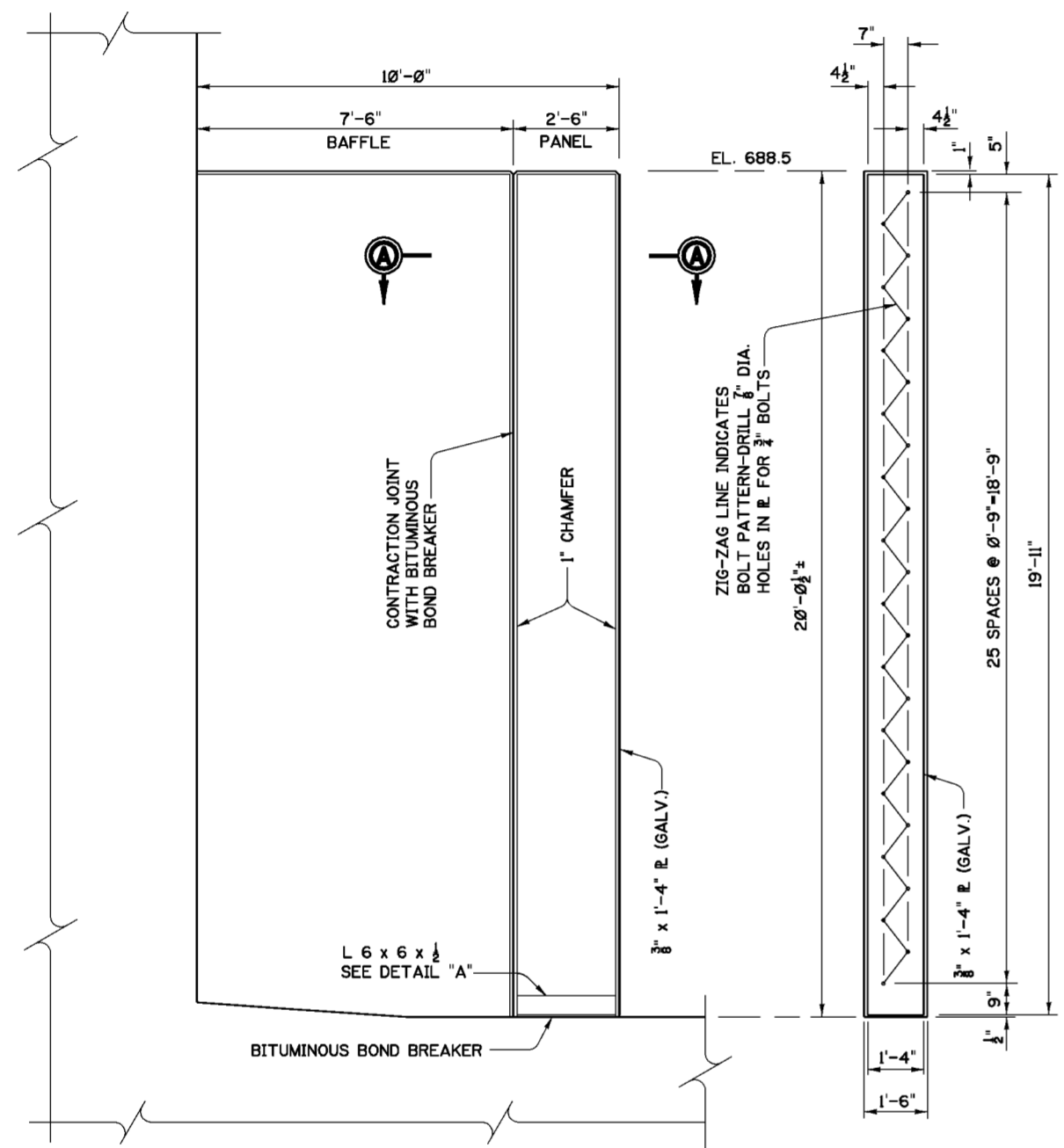
Designed by: B.W.D.  
Drawn by: W.D.W.  
Checked by: B.W.D.  
Reviewed by: B.W.D.  
Approved by: B.W.D.

SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

**PUMP STATION  
HANDRAILS, LADDERS,  
& LADDER CAGE**

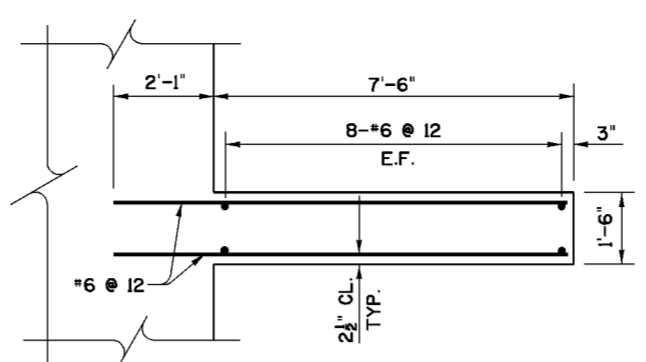
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Drawing Code: O16-PWC-13

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Sheet of



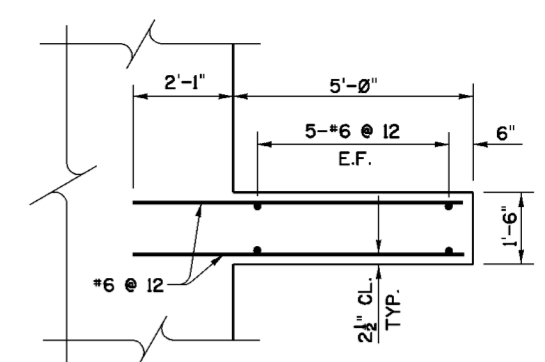
**10'-0" BAFFLE**

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



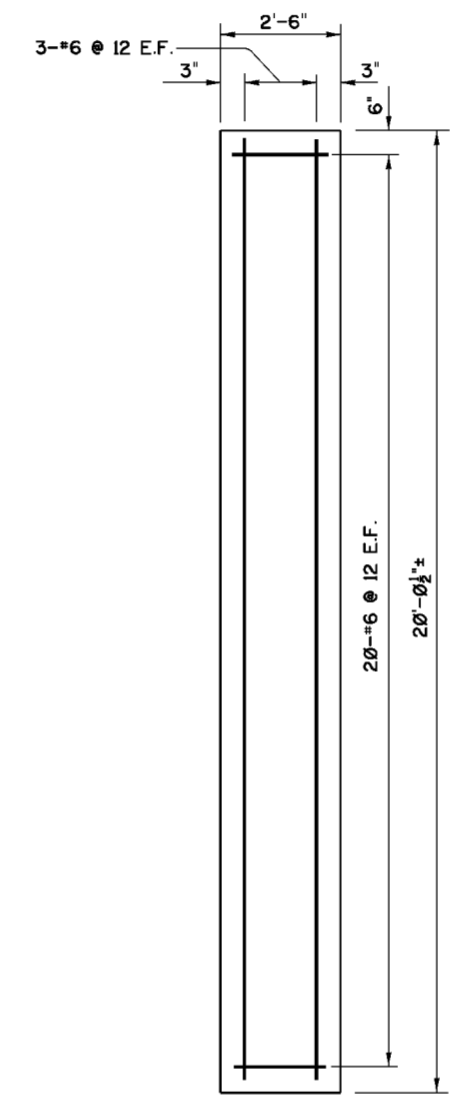
**7'-6" BAFFLE**

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



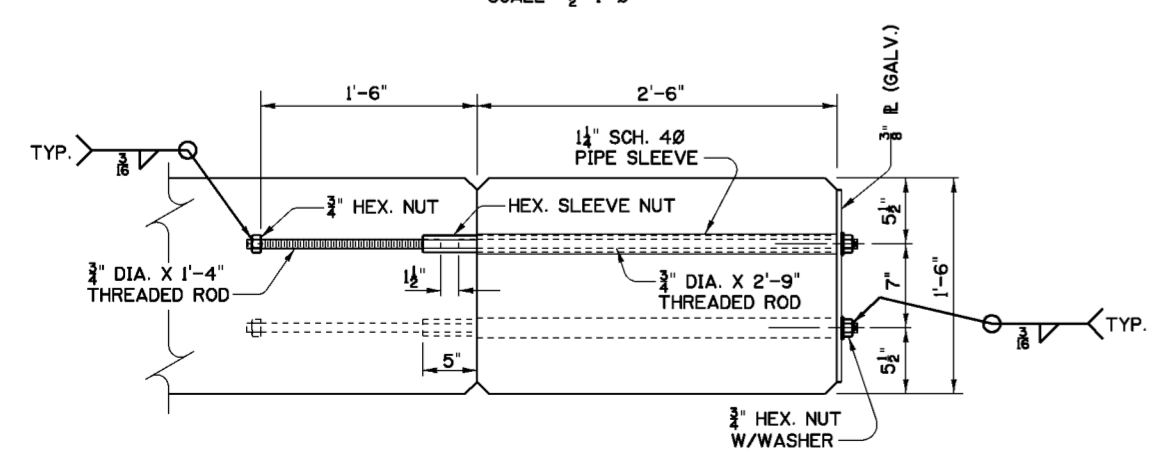
**5'-0" BAFFLE**

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



**2'-6" PANEL**

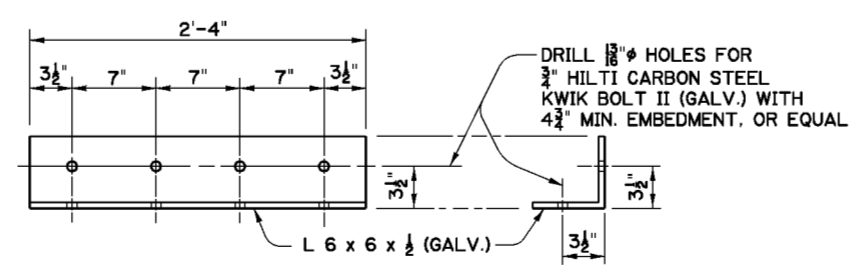
(REMOVABLE)  
SCALE: 1/2"=1'-0"



**SECTION A-A**

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

NOTE:  
CENTER THREADED ROD  
IN PIPE SLEEVE



**DETAIL "A"**

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

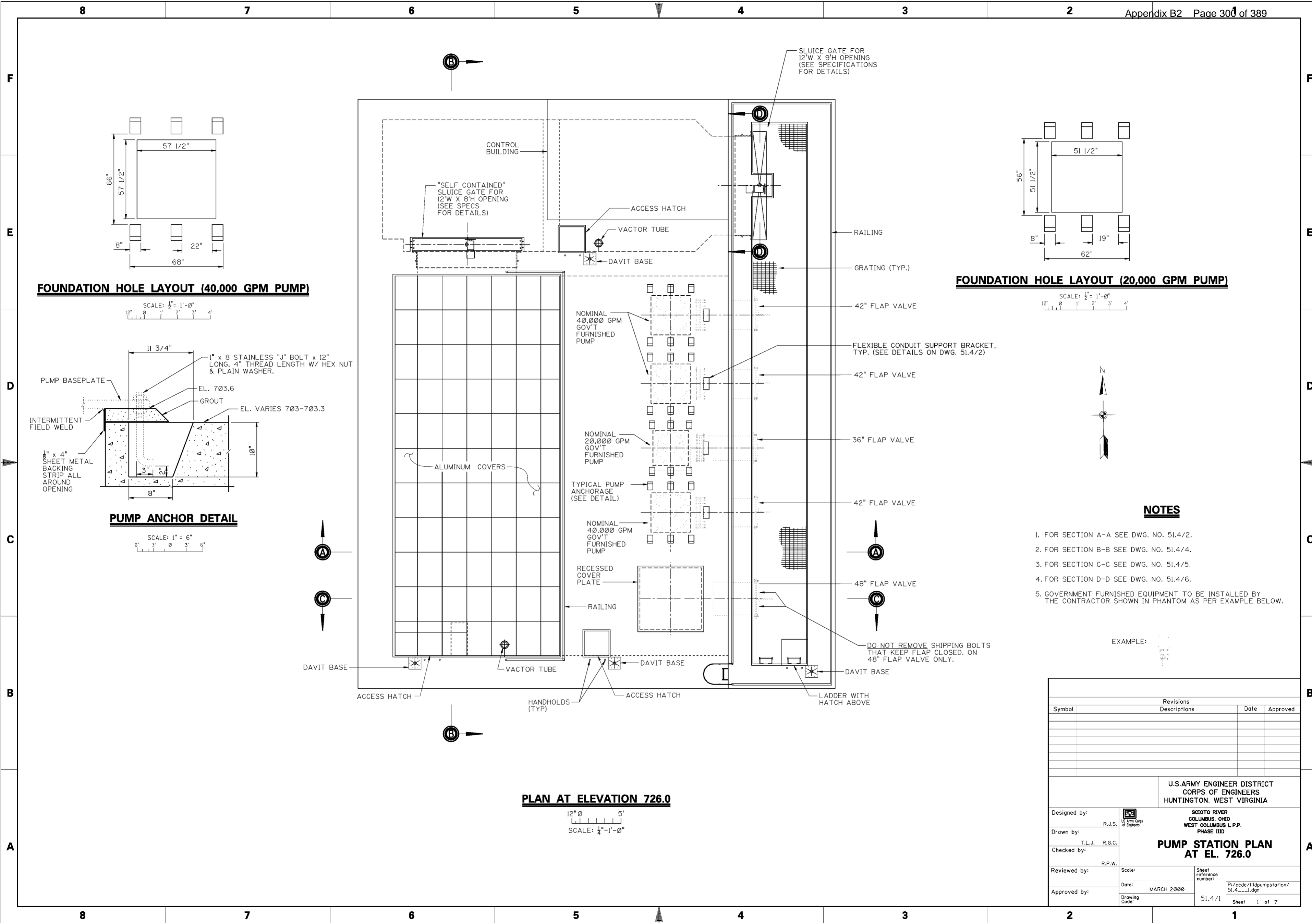
**NOTES**

1. FOR GENERAL NOTES SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES SEE DWG. 20/1/1.
3. FOR LOCATION OF BAFFLES SEE DWG. 51/1/4.
4. CHAMFERS NOT SHOWN ON REINFORCEMENT DETAILS.
5. HEX. NUTS, WASHERS, HEX. SLEEVE NUTS, AND THREADED RODS SHALL BE GALVANIZED.

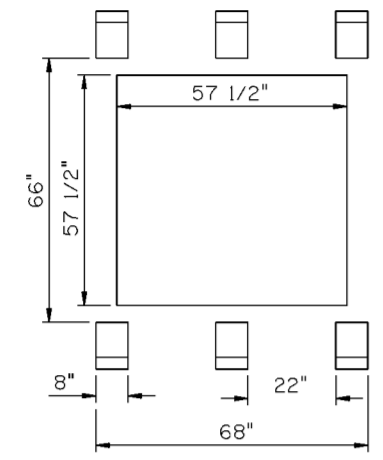
Revisions			
Symbol	Descriptions	Date	Approved

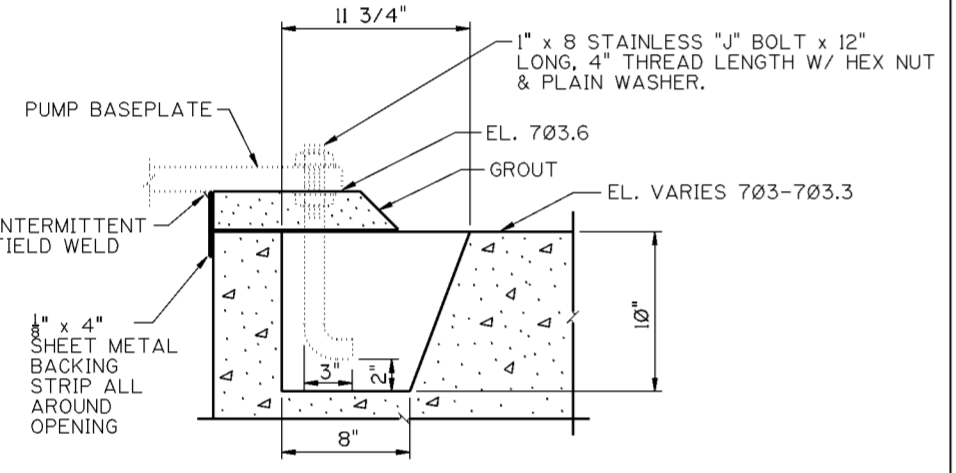
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: M.B.S. B.W.D.		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III	
Drawn by: B.W.D.		<b>PUMP STATION BAFFLE DETAILS AND REINFORCEMENT</b>	
Checked by: M.B.S.	Scale: AS SHOWN	Sheet reference number: 51.3/17	FILENAME: PEN TABLE: 513.17.dgn
Reviewed by:	Date: MARCH 2000	Drawing Code: O16-PWC-13	Sheet of
Approved by:			



**FOUNDATION HOLE LAYOUT (40,000 GPM PUMP)**



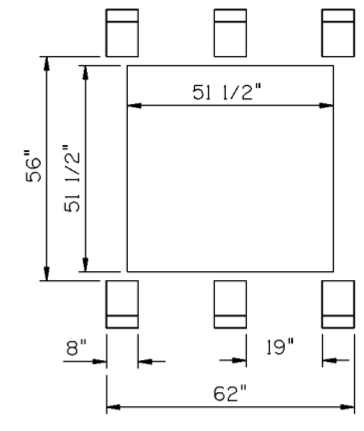
SCALE: 1/2" = 1'-0"  
 12" 0' 1' 2' 3' 4'



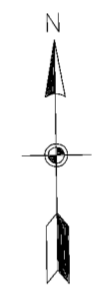
**PUMP ANCHOR DETAIL**

SCALE: 1" = 6"  
 6" 3" 0' 3" 6"

**FOUNDATION HOLE LAYOUT (20,000 GPM PUMP)**



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



**NOTES**

1. FOR SECTION A-A SEE DWG. NO. 51.4/2.
2. FOR SECTION B-B SEE DWG. NO. 51.4/4.
3. FOR SECTION C-C SEE DWG. NO. 51.4/5.
4. FOR SECTION D-D SEE DWG. NO. 51.4/6.
5. GOVERNMENT FURNISHED EQUIPMENT TO BE INSTALLED BY THE CONTRACTOR SHOWN IN PHANTOM AS PER EXAMPLE BELOW.

EXAMPLE:

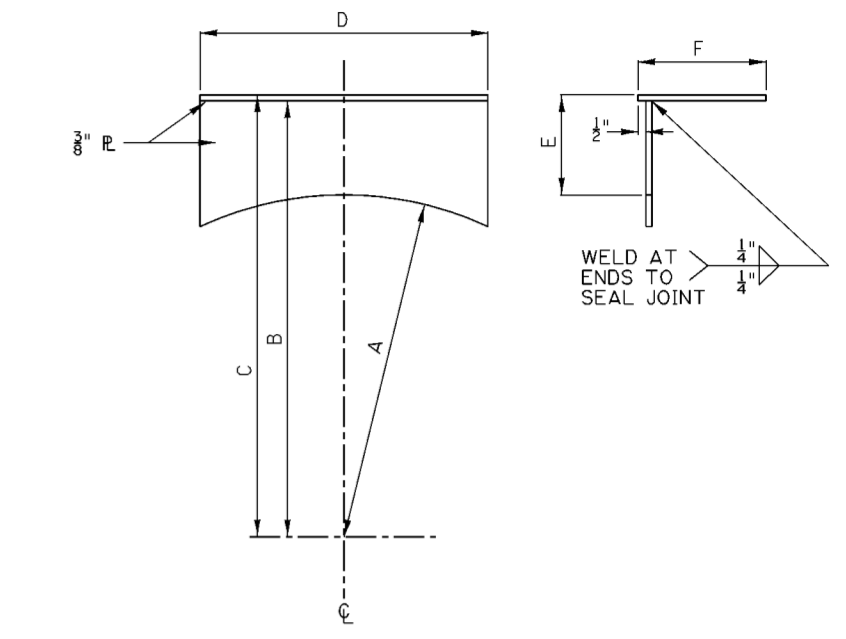
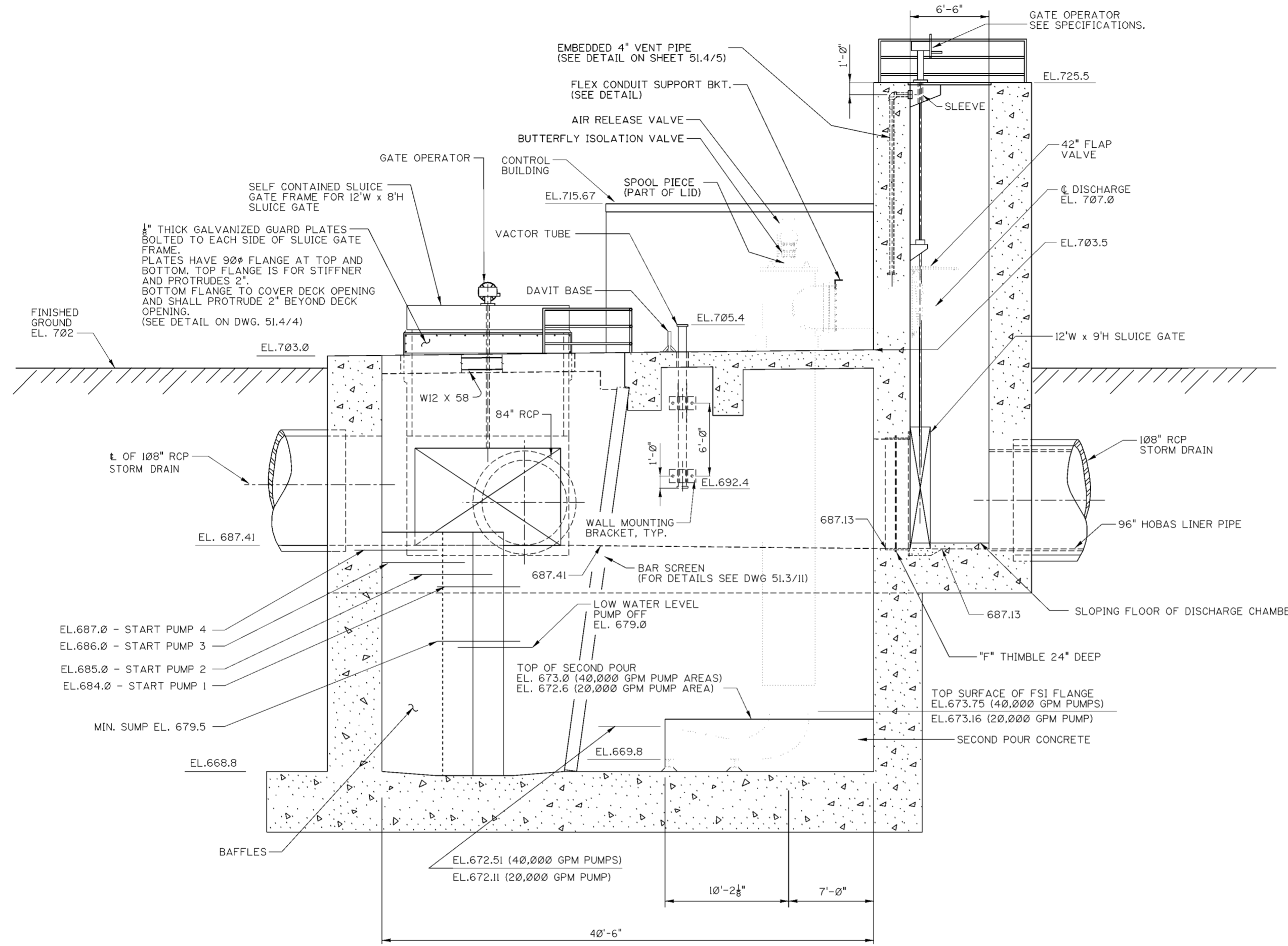
**PLAN AT ELEVATION 726.0**

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

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: R.J.S.	Drawn by: T.L.W. R.G.C.	Checked by: R.P.W.	Reviewed by: Date: MARCH 2000 Drawing Code: 51.4/1
SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III		<b>PUMP STATION PLAN                  AT EL. 726.0</b>	
Sheet reference number: 51.4/1		P:\ecde\lilidumpstation\51.4_...l.dgn Sheet 1 of 7	



**FLEXIBLE CONDUIT SUPPORT BRACKET**

SCALE 2" = 1'-0"

ITEM	QTY.	A	B	C	D	E	F
FCS 36	1	18 3/8"	27 7/8"	27 1/4"	18"	9 3/8"	8"
FCS 42	3	21 3/8"	27 7/8"	27 1/4"	18"	6 3/8"	8"

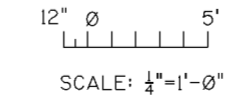
- \*BREAK ALL SHARP EDGES AND CORNERS.
- \*CLEAN AND PAINT W/2 COATS SYSTEM NO. 1 PAINT PER SPECS.
- \*BRACKETS WILL BE DRILLED IN THE FIELD TO MOUNT ON 3 OR MORE FLEXIBLE COUPLING BOLTS TO PROVIDE FLEXIBLE CONDUIT SUPPORT.
- \*CONTRACTOR TO FURNISH AND INSTALL A 1 HOLE CONDUIT CLAMP FOR EACH 3 1/2\"/>

**NOTES**

1. FOR LOCATION OF SECTION A-A SEE DWG. NO. 51.4/1.
2. FOR FSI MOUNTING DETAIL SEE DWG. NO. 51.4/6.
3. FOR 4\"/>

EXAMPLE:

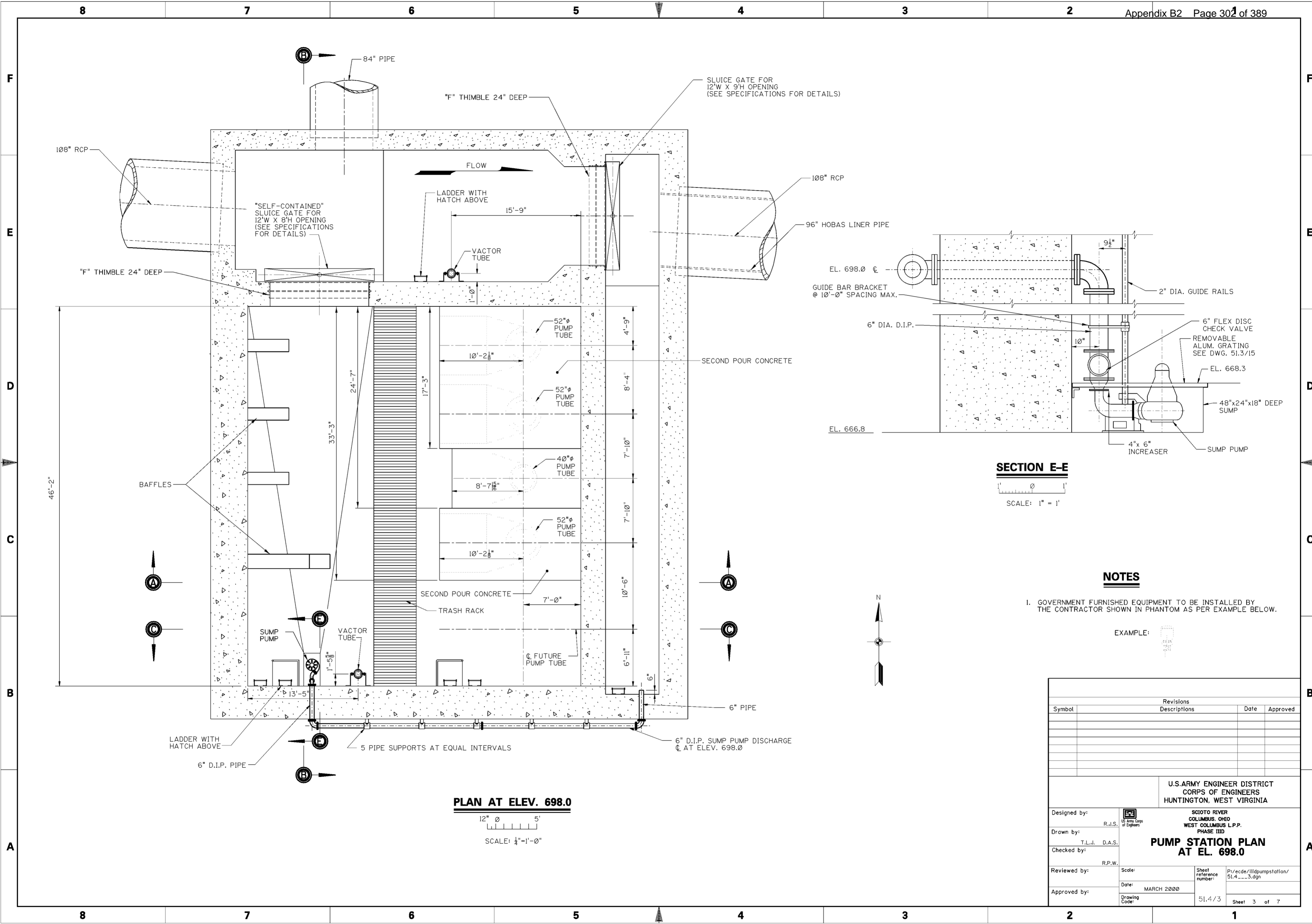
**SECTION "A-A"**



Revisions			
Symbol	Descriptions	Date	Approved

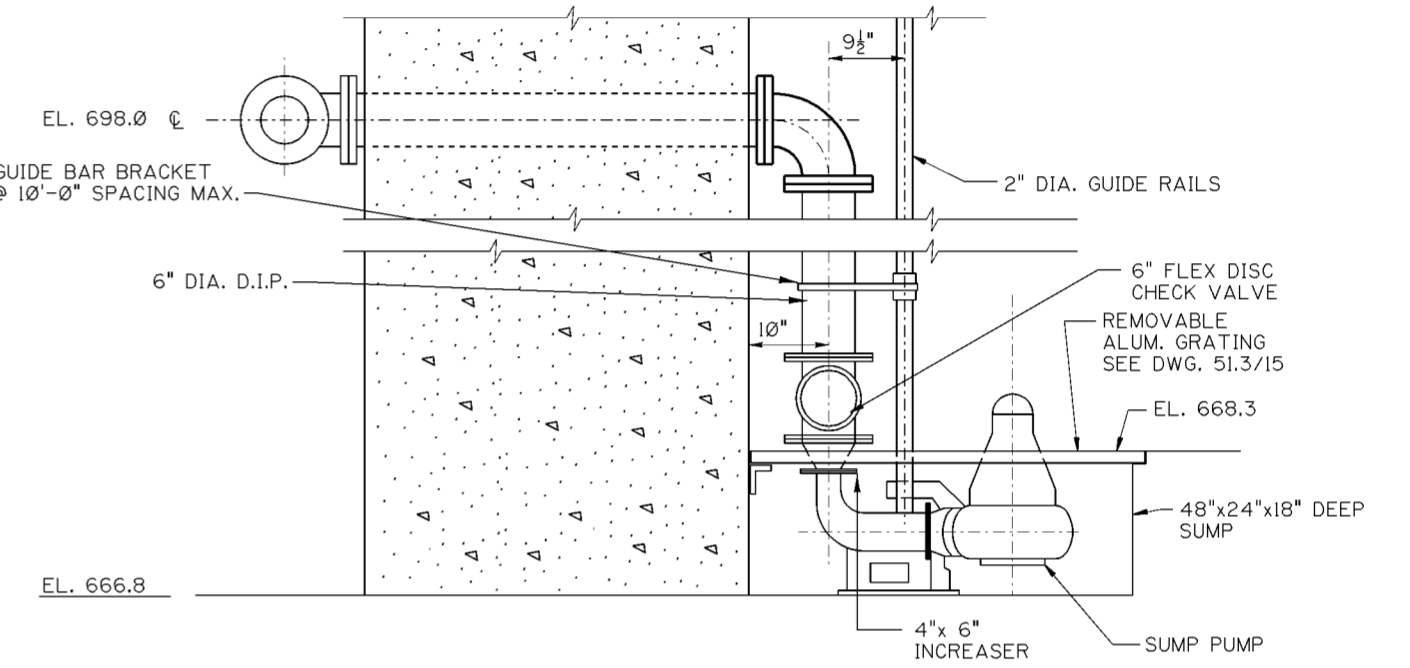
**U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
HUNTINGTON, WEST VIRGINIA**

Designed by: R.J.S.		<b>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III</b>			
Drawn by: T.L.W. D.A.S.					
Checked by:	R.P.W.	<b>PUMP STATION SECTIONS</b>			
Reviewed by:	Scale:			Sheet reference number:	P:/ecde/111d/pumpstation/51.4...2.dgn
Approved by:	Date: MARCH 2000			Drawing Code: 51.4/2	Sheet 2 of 7



**PLAN AT ELEV. 698.0**

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



**SECTION E-E**

SCALE: 1" = 1'

**NOTES**

1. GOVERNMENT FURNISHED EQUIPMENT TO BE INSTALLED BY THE CONTRACTOR SHOWN IN PHANTOM AS PER EXAMPLE BELOW.

EXAMPLE:

Revisions			
Symbol	Descriptions	Date	Approved

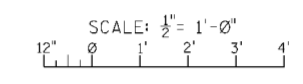
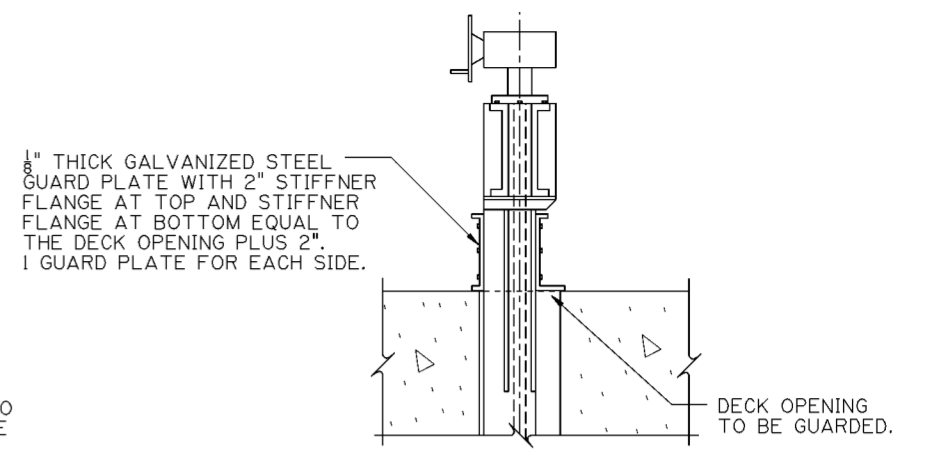
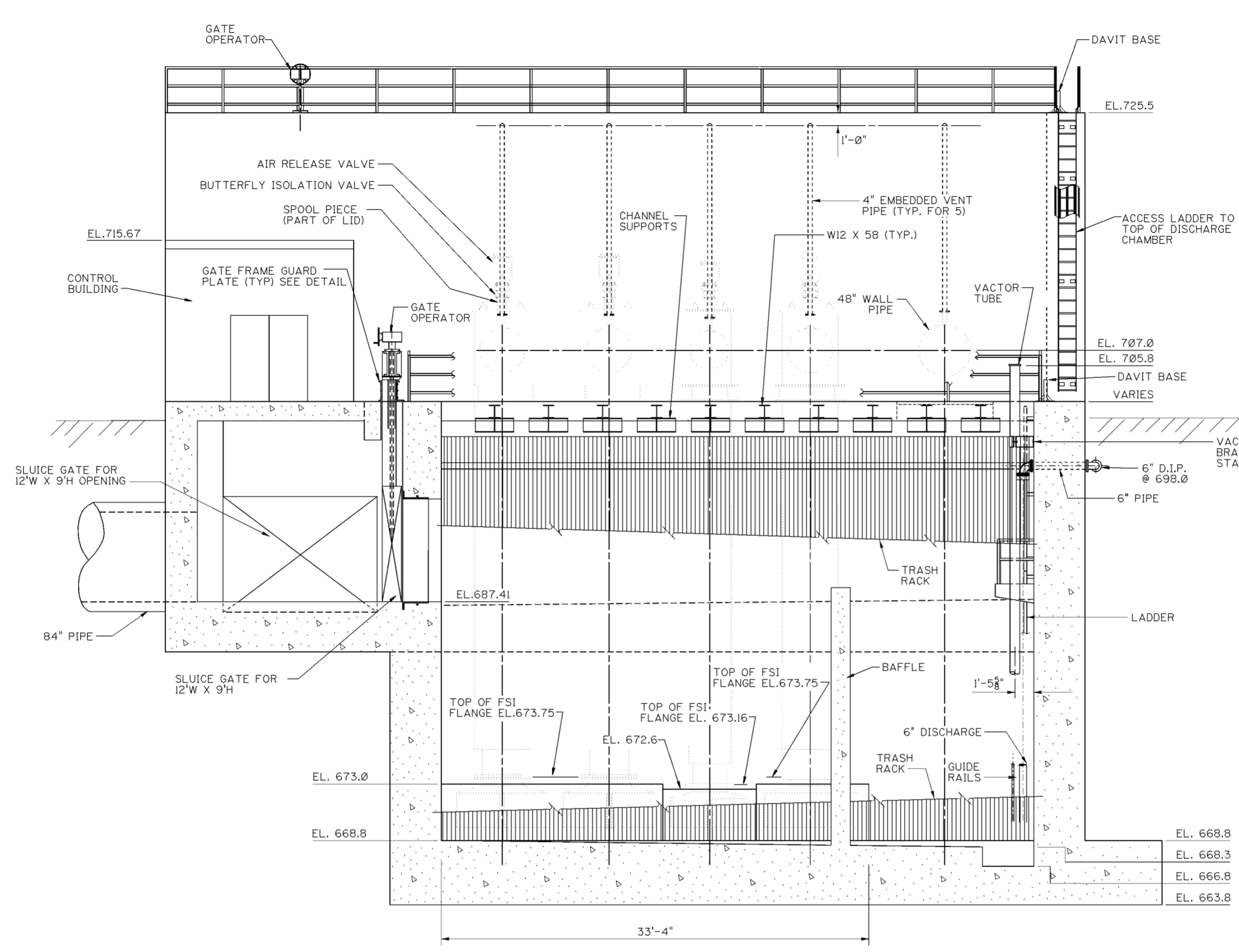
U.S. ARMY ENGINEER DISTRICT  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III

**PUMP STATION PLAN  
AT EL. 698.0**

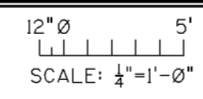
Designed by: R.J.S.		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III
Drawn by: T.L.W. D.A.S.		
Checked by: R.P.W.	Scale:	Sheet reference number:
Reviewed by:	Date: MARCH 2000	P:\ecdc\111dpumpstation\51.4...3.dgn
Approved by:	Drawing Code:	51.4/3

Sheet 3 of 7

**WORK AS CONSTRUCTED**



**SECTION "B-B"**



**NOTES**

1. FOR LOCATION OF SECTION B-B SEE DWGS. 51.4/1 AND 51.4/3.
2. GOVERNMENT FURNISHED EQUIPMENT TO BE INSTALLED BY THE CONTRACTOR SHOWN IN PHANTOM AS PER EXAMPLE BELOW.

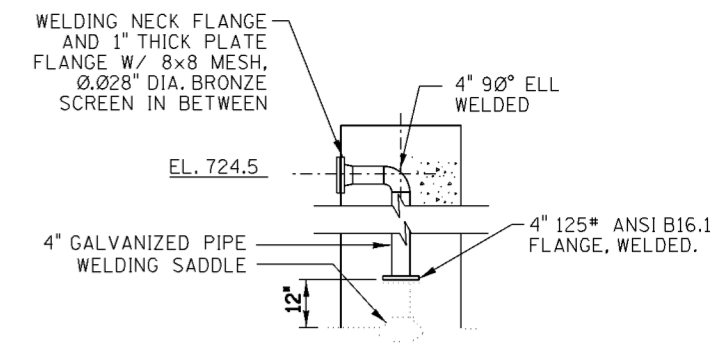
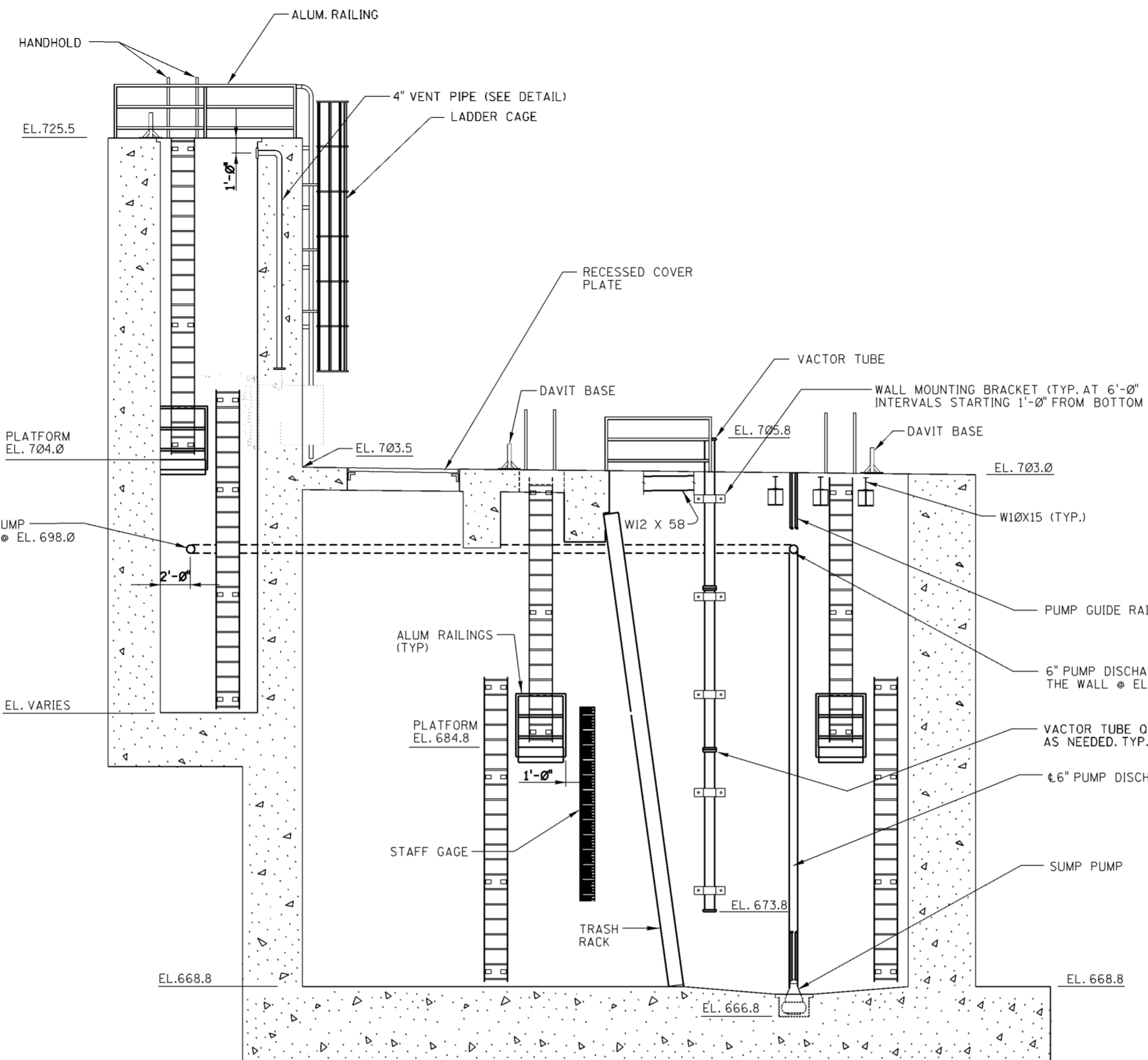
EXAMPLE:



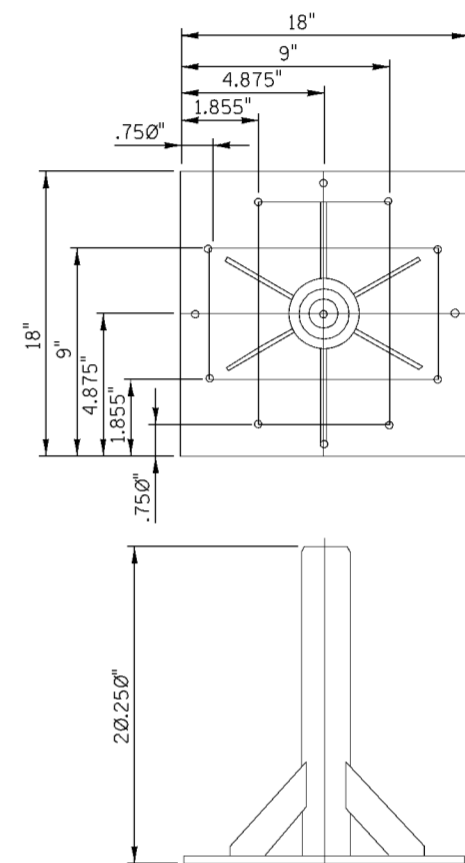
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: R.J.S.	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III	<b>PUMP STATION SECTIONS</b>	
Drawn by: T.L.J. R.G.C.			
Checked by: R.P.W.	Scale:	Sheet reference number:	P:/ecdc/iiidumpstation/ 51.4...4.dgn
Reviewed by:	Date: MARCH 2000	51.4/4	
Approved by:	Drawing Code:	Sheet 4 of 7	



**VENT PIPE DETAIL**  
SCALE: 1/2"=1'-0"

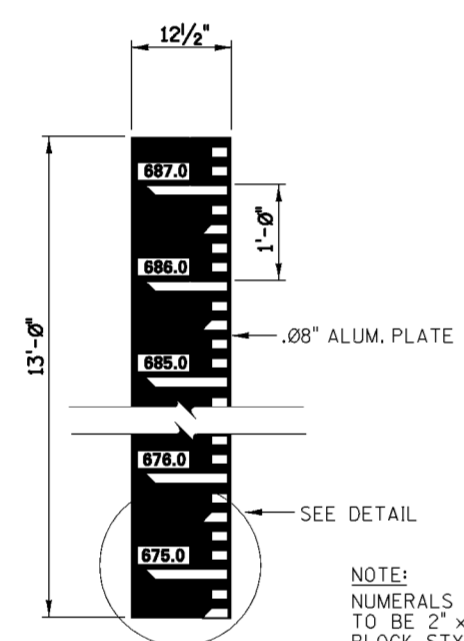


**DAVIT BASE DETAIL**  
SCALE: 2"=1'-0"

**NOTE:**

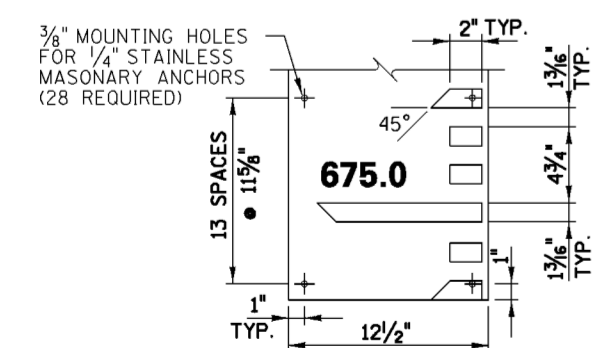
1. FOR LOCATION OF SECTION C-C SEE DWG 51.4/1 AND 51.4/3.
2. GOVERNMENT FURNISHED EQUIPMENT TO BE INSTALLED BY THE CONTRACTOR SHOWN IN PHANTOM AS PER EXAMPLE BELOW.

EXAMPLE:



**STAFF GAGE**  
SCALE: 1"=1'-0"

NOTE: NUMERALS ARE TO BE 2" x 3/2" BLOCK STYLE LETTERING.



**STAFF GAGE DETAIL**  
SCALE: 2"=1'-0"

**SECTION "C-C"**  
SCALE: 1/4"=1'-0"

Revisions			
Symbol	Descriptions	Date	Approved

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

Designed by: R.J.S. SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III

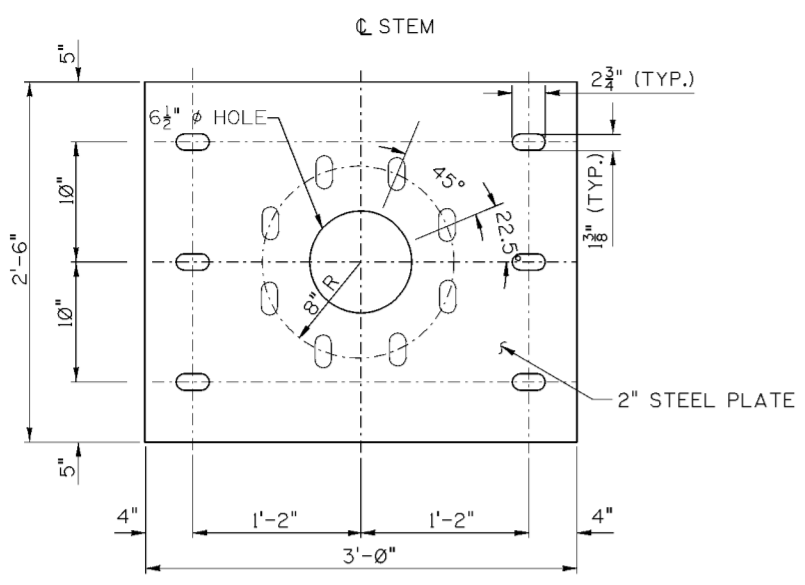
Drawn by: T.L.J. **PUMP STATION SECTIONS**

Checked by: R.P.W.

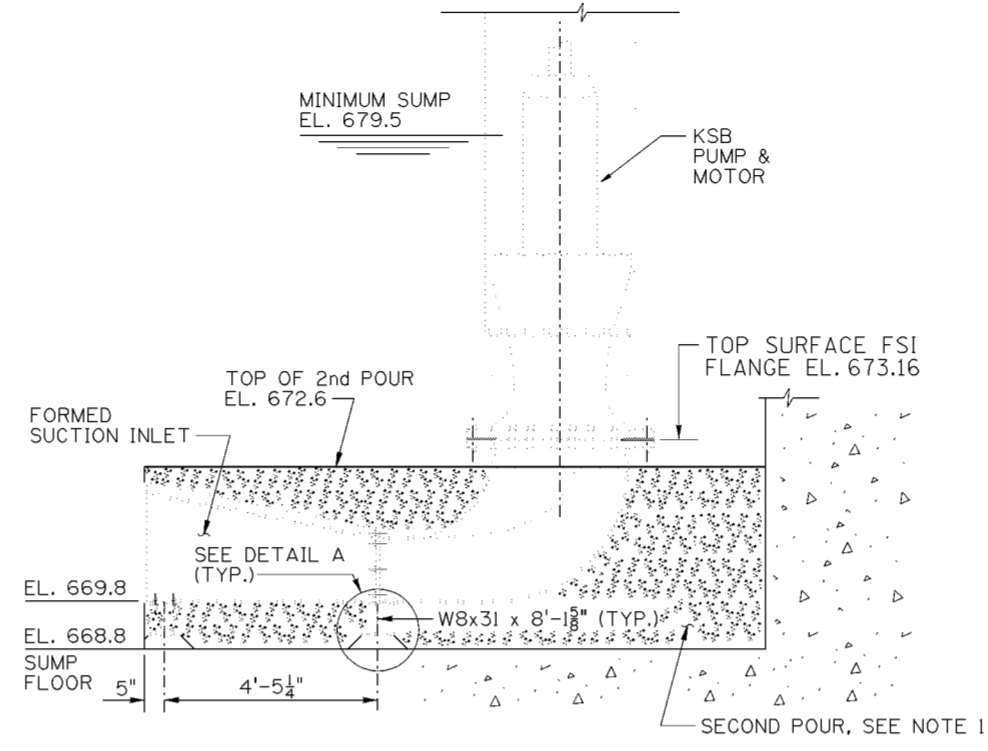
Reviewed by: Scale: Sheet reference number: P:\ecde\i11d\pumpstation\51.4...5.dgn

Approved by: Date: MARCH 2000 Drawing Code: 51.4/5 Sheet 5 of 7

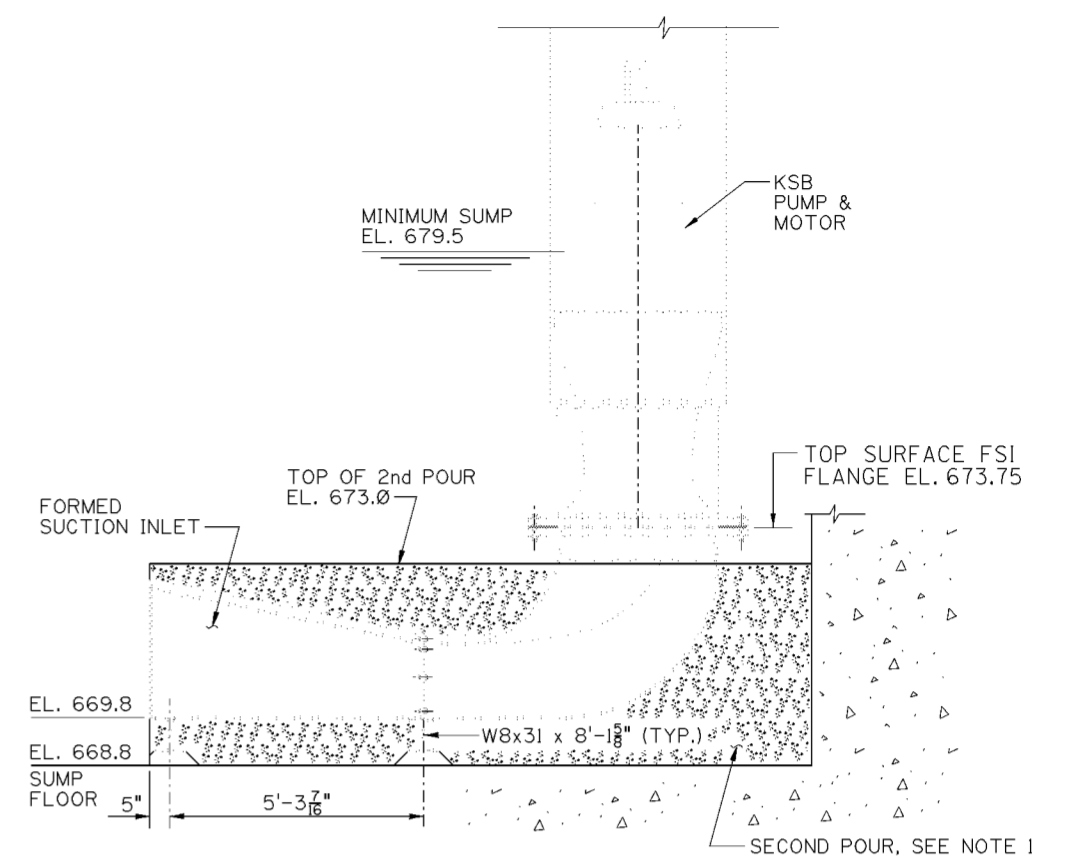




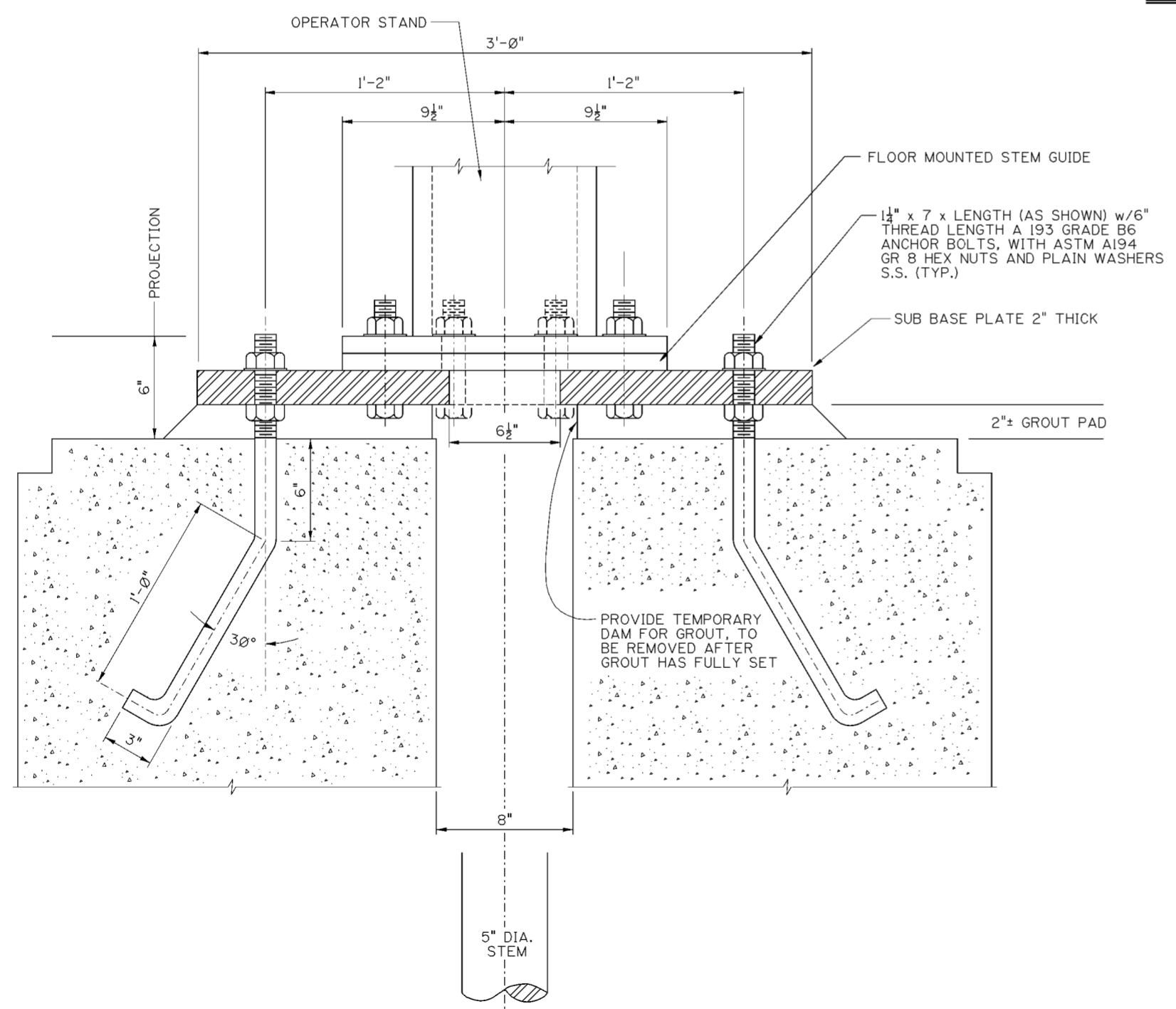
**SUB-BASE PLATE PLAN**  
SCALE: 1/2" = 1'-0"



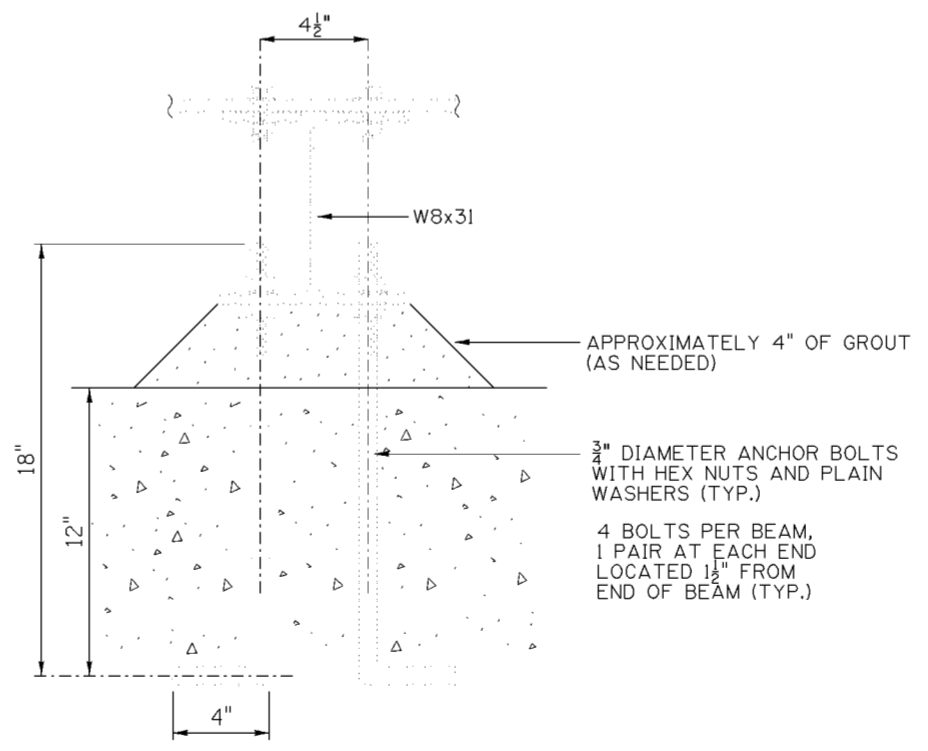
**FSI ELEVATION - 20,000 GPM PUMP**  
SCALE: 1/2" = 1'-0"



**FSI ELEVATION - 40,000 GPM PUMP**  
SCALE: 1/2" = 1'-0"



**SECTION "D-D"**  
SCALE: 3" = 1'-0"



**DETAIL A**  
SCALE: 3" = 1'-0"

**NOTES**

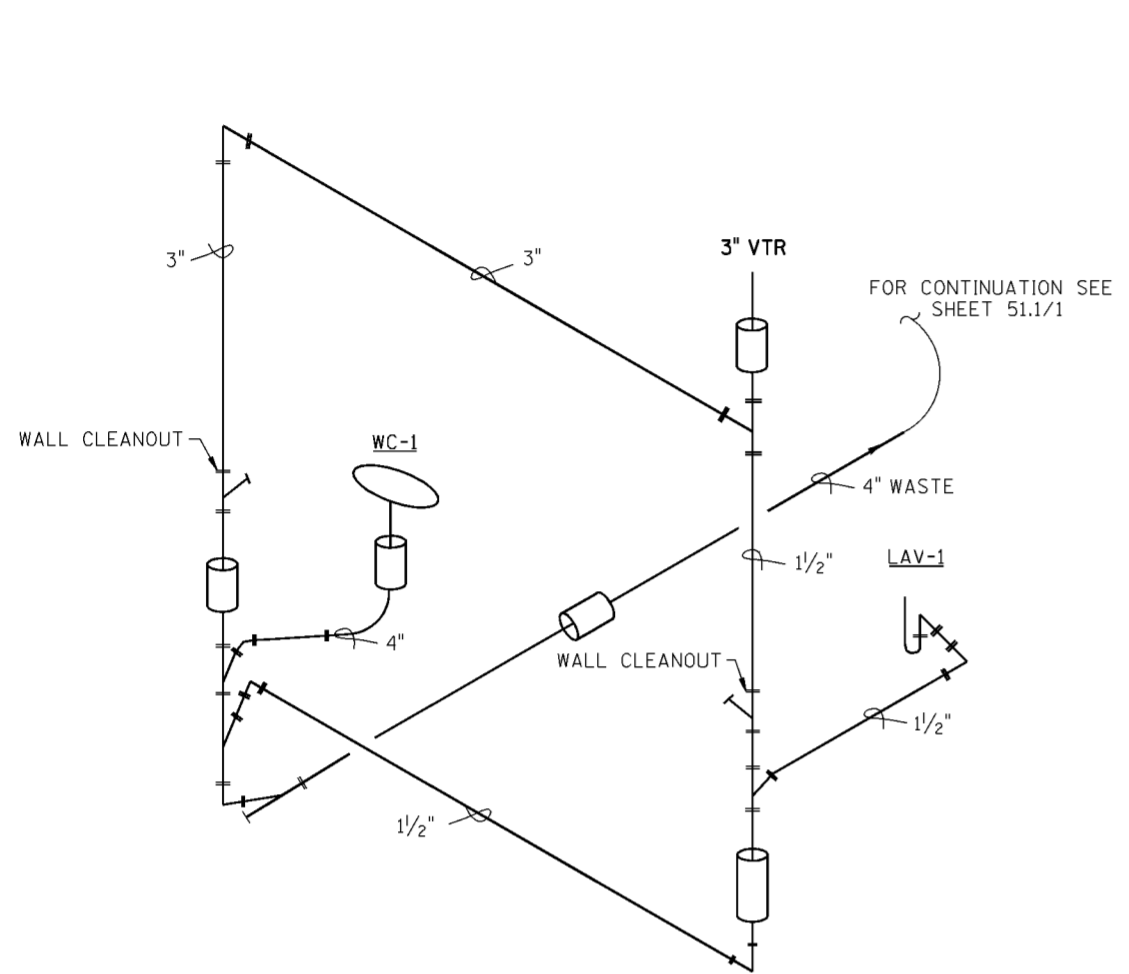
- TEMPORARY INTERNAL BLOCKING WITHIN THE FSI'S SHALL BE USED AS NECESSARY DURING SECOND POUR CONCRETE PLACEMENT TO PREVENT DISTORTION OR DEFLECTION OF THE FSI. BLOCKING TO BE REMOVED AFTER SECOND POUR CONCRETE IS FULLY SET.
- GOVERNMENT FURNISHED EQUIPMENT TO BE INSTALLED BY CONTRACTOR SHOWN IN PHANTOM AS PER EXAMPLE BELOW.

EXAMPLE:

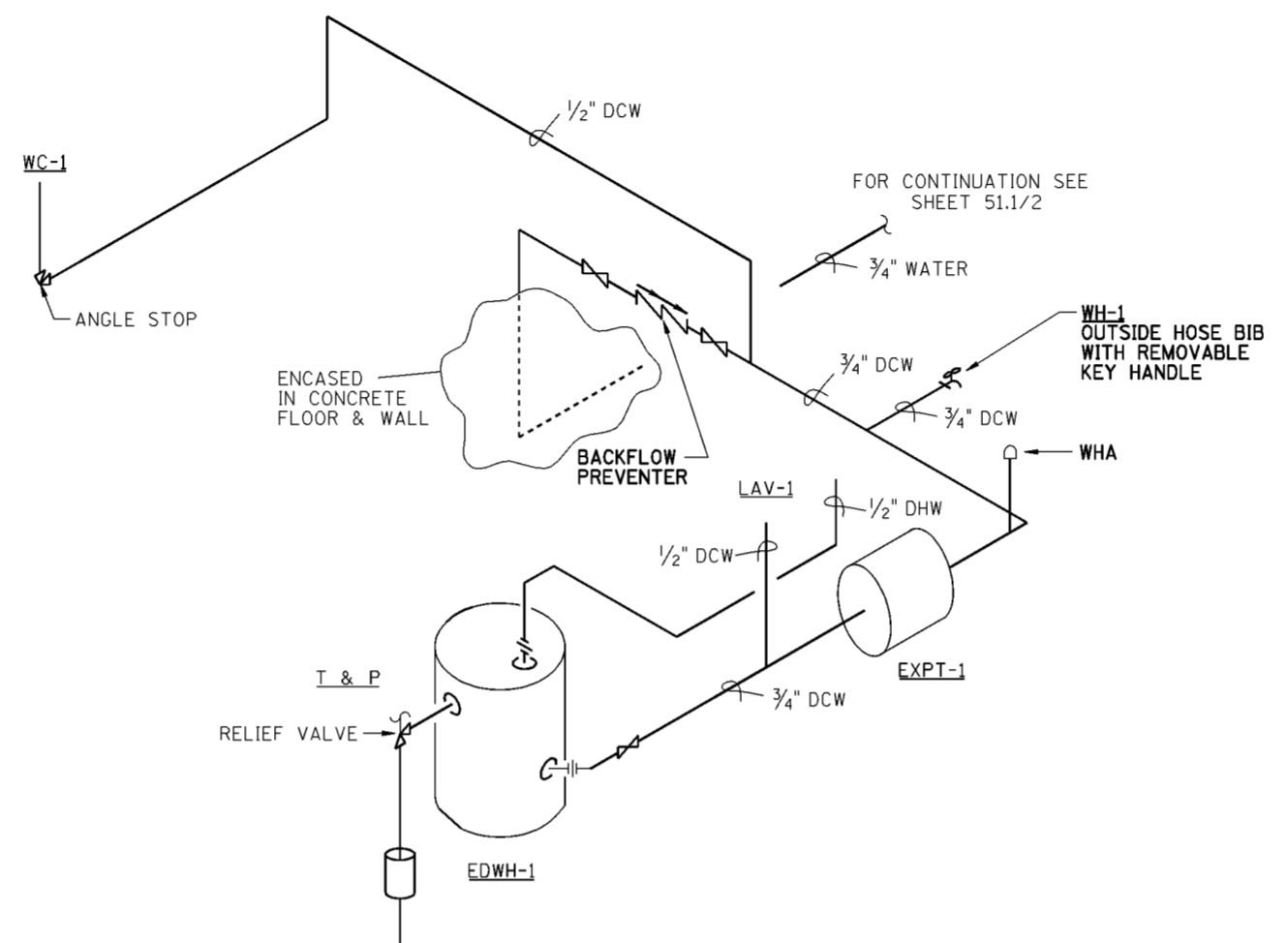
Revisions			
Symbol	Descriptions	Date	Approved

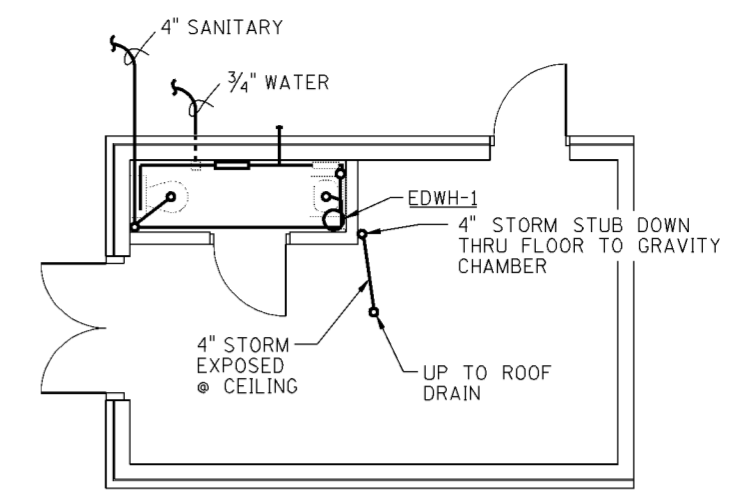
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA					
Designed by:	R.J.S.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III <b>PUMP STATION MISCELLANEOUS DETAILS</b>			
Drawn by:	T.L.J.				
Checked by:	R.P.W.				
Reviewed by:	Scale:			Sheet reference number:	P:/ecde/111d/pumpstation/51.4_...6.dgn
Approved by:	Date:			51.4/6	Sheet 6 of 7



**STACK DIAGRAM**  
NOT TO SCALE

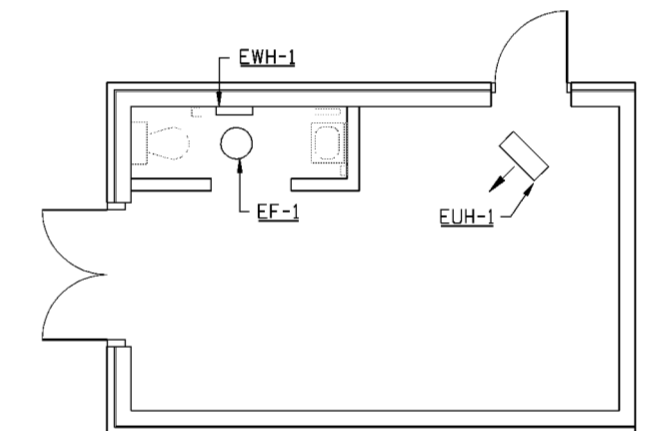


**H & C RISER DIAGRAM**  
NOT TO SCALE



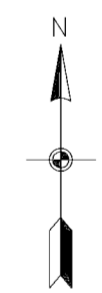
**CONTROL BUILDING PLUMBING PLAN**

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



**CONTROL BUILDING HEATING & VENTILATING PLAN**

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



EQUIPMENT SCHEDULE					
MARK	DESCRIPTION	MODEL	CAPACITY	VOLTAGE	REMARKS
EUH-1	ELECTRIC UNIT HEATER IN CONTROL ROOM	CHROMALOX MODEL LUH-20-43 OR EQUAL •	20 KW 68,500 BTU/HR	208v/60Hz/3ph	FURNISH WITH WR-80 THERMOSTAT. MOUNT FROM CEILING.
EWH-1	ELECTRIC WALL HEATER IN TOILET ROOM	CHROMALOX MODEL LH-2405 OR EQUAL •	1.5 KW 5100 BTU/HR	120v/60Hz/1ph	FURNISH WITH RTC-90 THERMOSTAT. MOUNT ON WALL, 36" ABOVE FLOOR.
EF-1	TOILET EXHAUST FAN	PENN ZEPHYR MODEL Z-6 OR EQUAL •	90 CFM @ 0.125" S.P.	120v/60Hz/1ph	FURNISH WITH WC-10 WALL CAP
EDWH-1	ELECTRIC DOMESTIC WATER HEATER IN TOILET ROOM	RUUD ENERGY MISER POINT-OF-USE TYPE MODEL PEP6-1 OR EQUAL •	6 GALLON TANK 2000 WATTS	120v/60Hz/1ph	HEATER SHALL BE U.L. LISTED & MEET ASHRAE 90 ENERGY REQUIREMENTS.
EXPT-1	EXPANSION TANK 2.0 GAL. IN LINE THERMAL EXPANSION ABSORBER	AMTROL INC'S MODEL ST-6 WARWICK, RI OR EQUAL •			WHITE PREFERABLE

PLUMBING FIXTURES				
MARK	DESCRIPTION	MODEL	COLOR	ACCESSORIES
LAV-1	LAVATORY, WALL HUNG BOWL SIZE: 14 1/4" WIDE x 10 3/4" x 6" DEEP	AMERICAN STANDARD DECLYN 0321.075 OR EQUAL •	WHITE	WITH SINGLE LEVER FAUCET CONCEALED ARM SUPPORT BRACKETS CUTOFFS ON SUPPLY LINES, POP-UP DRAIN AND P-TRAP.
WC-1	WATER CLOSET, TANK TYPE FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET, VITREOUS CHINA, HANDICAPPED.	AMERICAN STANDARD WATER SAVER CADET 2108.408 18" RIM HEIGHT OR EQUAL •	WHITE	WITH OPEN FRONT SEAT, NO COVER.
WH-1	WALL HYDRANT FOR USE W/GARDEN HOSE			FROST PROOF WITH INTEGRAL VACUUM-BREAKER BACKFLOW PREVENTER AND DETACHABLE KEY HANDLE.

• OTHER MANUFACTURERS' PRODUCTS PROVIDING EQUIVALENT PERFORMANCE WILL BE CONSIDERED.

**NOTES:**

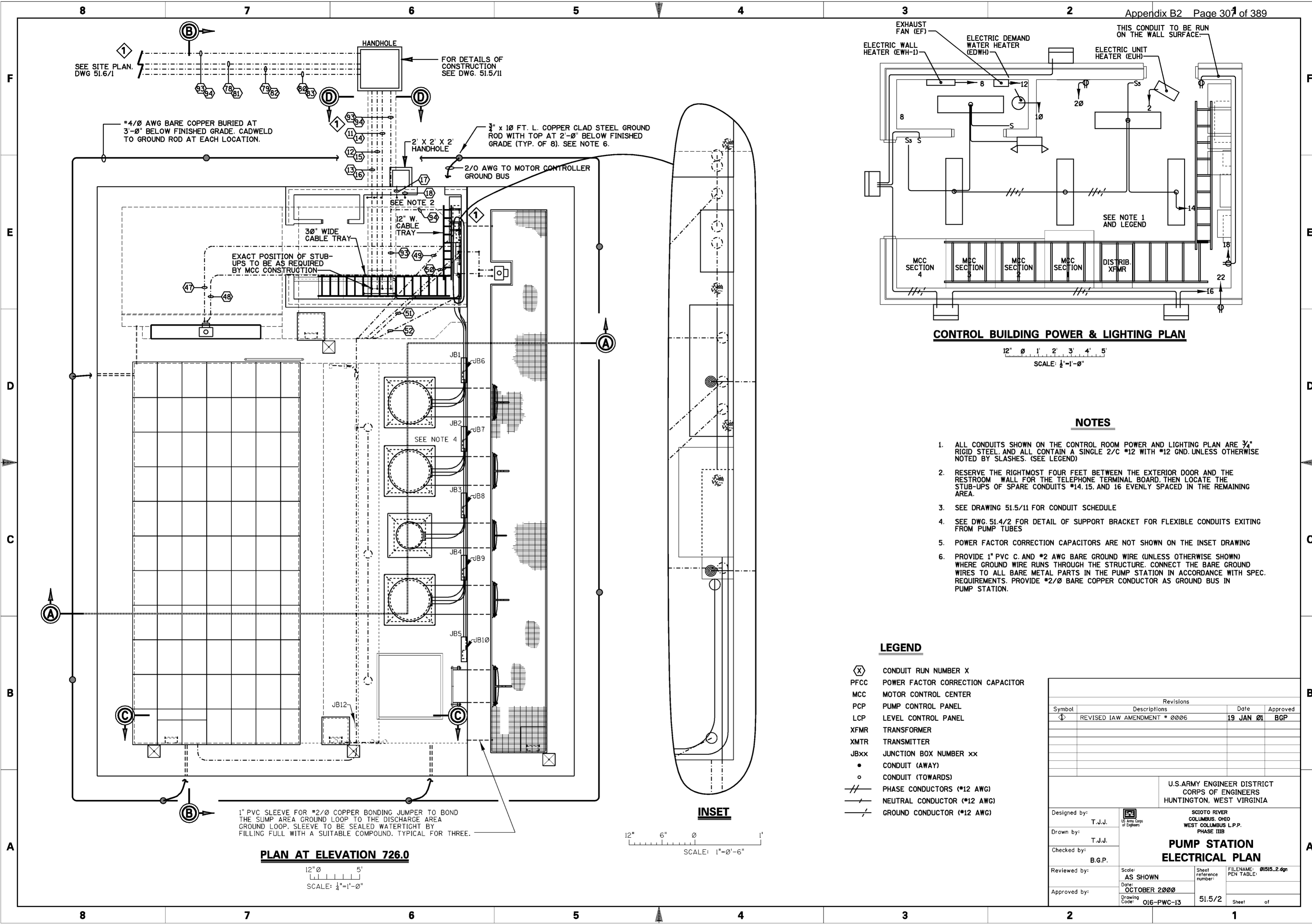
1. SURFACE MOUNT DOMESTIC HOT & COLD WATER LINES.
2. SURFACE MOUNT 1/2" & 3" VERTICAL VENT STACKS & 4" STORM LINE.

Revisions			
Symbol	Descriptions	Date	Approved

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

Designed by: R.J.S.	<p><b>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III</b></p> <p><b>PUMP STATION HEATING, VENTILATION &amp; PLUMBING</b></p>	Sheet reference number:
Drawn by: T.L.J.		51.4/7
Checked by: R.P.W.		PI/ecde/111dpumpstation/51.4...7.dgn
Reviewed by:		Scale:
Approved by:		Date: MARCH 2000

Sheet 7 of 7

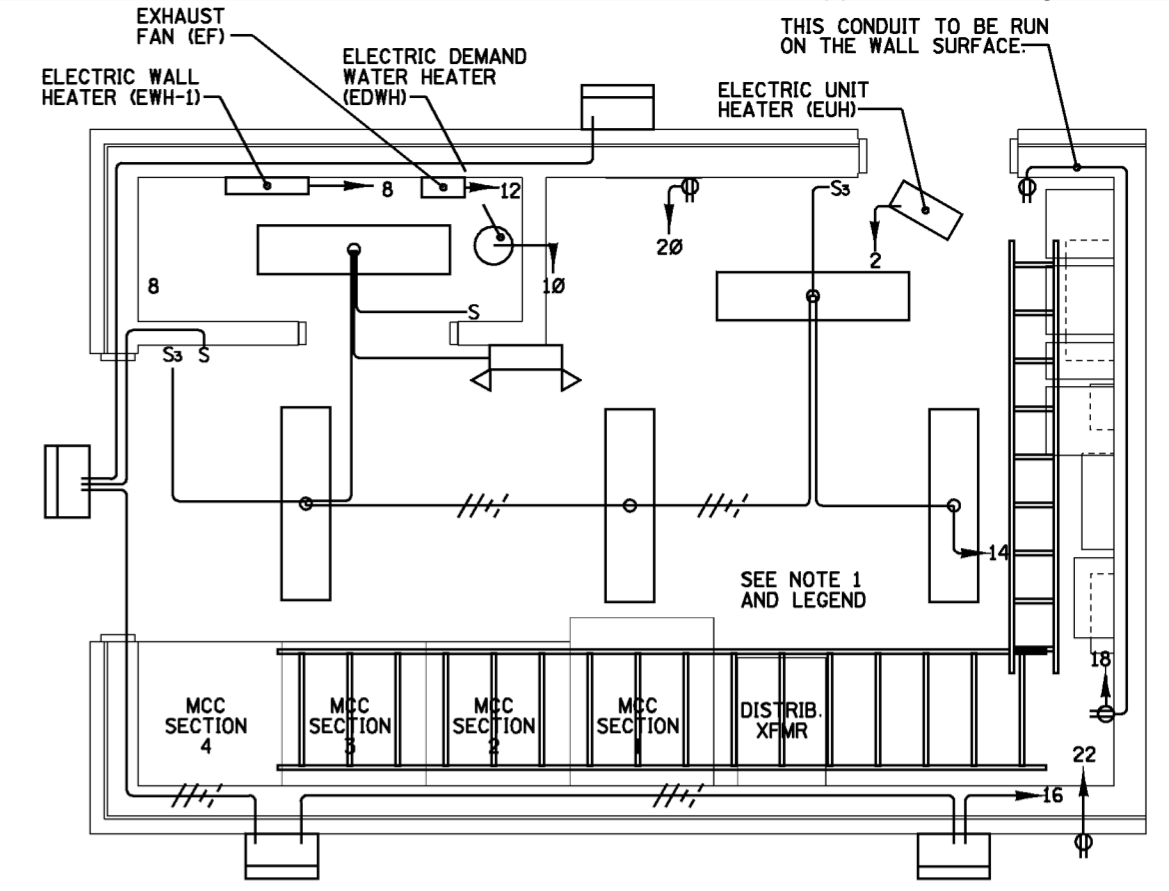


**PLAN AT ELEVATION 726.0**

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

**INSET**

12" 6" 0 1"  
SCALE: 1"=0'-6"



**CONTROL BUILDING POWER & LIGHTING PLAN**

12" 0 1 2 3 4 5"  
SCALE: 1/2"=1'-0"

**NOTES**

1. ALL CONDUITS SHOWN ON THE CONTROL ROOM POWER AND LIGHTING PLAN ARE 3/4" RIGID STEEL, AND ALL CONTAIN A SINGLE 2/C #12 WITH #12 GND. UNLESS OTHERWISE NOTED BY SLASHES. (SEE LEGEND)
2. RESERVE THE RIGHTMOST FOUR FEET BETWEEN THE EXTERIOR DOOR AND THE RESTROOM WALL FOR THE TELEPHONE TERMINAL BOARD, THEN LOCATE THE STUB-UPS OF SPARE CONDUITS #14, 15, AND 16 EVENLY SPACED IN THE REMAINING AREA.
3. SEE DRAWING 51.5/11 FOR CONDUIT SCHEDULE
4. SEE DWG. 51.4/2 FOR DETAIL OF SUPPORT BRACKET FOR FLEXIBLE CONDUITS EXITING FROM PUMP TUBES
5. POWER FACTOR CORRECTION CAPACITORS ARE NOT SHOWN ON THE INSET DRAWING
6. PROVIDE 1" PVC C. AND #2 AWG BARE GROUND WIRE (UNLESS OTHERWISE SHOWN) WHERE GROUND WIRE RUNS THROUGH THE STRUCTURE. CONNECT THE BARE GROUND WIRES TO ALL BARE METAL PARTS IN THE PUMP STATION IN ACCORDANCE WITH SPEC. REQUIREMENTS. PROVIDE #2/0 BARE COPPER CONDUCTOR AS GROUND BUS IN PUMP STATION.

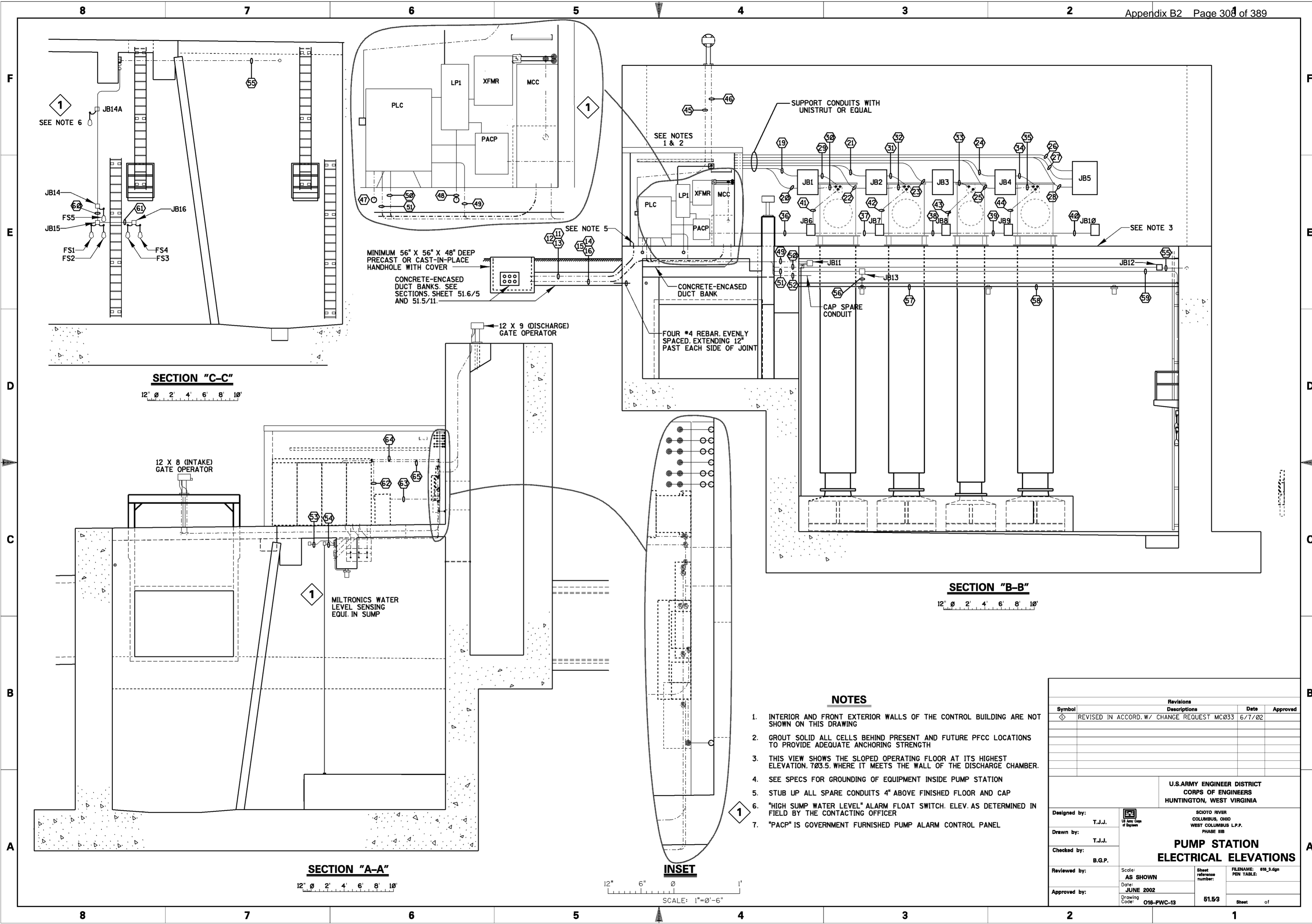
**LEGEND**

- (X) CONDUIT RUN NUMBER X
- PFCC POWER FACTOR CORRECTION CAPACITOR
- MCC MOTOR CONTROL CENTER
- PCP PUMP CONTROL PANEL
- LCP LEVEL CONTROL PANEL
- XFMR TRANSFORMER
- XMTR TRANSMITTER
- JBxx JUNCTION BOX NUMBER xx
- CONDUIT (AWAY)
- CONDUIT (TOWARDS)
- // PHASE CONDUCTORS (#12 AWG)
- / NEUTRAL CONDUCTOR (#12 AWG)
- / GROUND CONDUCTOR (#12 AWG)

Revisions			
Symbol	Descriptions	Date	Approved
↕	REVISED LAW AMENDMENT # 0006	19 JAN 01	BGP

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB	
Designed by:	T.J.J.	<b>PUMP STATION                  ELECTRICAL PLAN</b>	
Drawn by:	T.J.J.		
Checked by:	B.G.P.		
Reviewed by:	AS SHOWN		
Approved by:	OCTOBER 2000		
		Sheet reference number: 51.5/2	FILENAME: 01515_2.dgn PEN TABLE: Sheet of

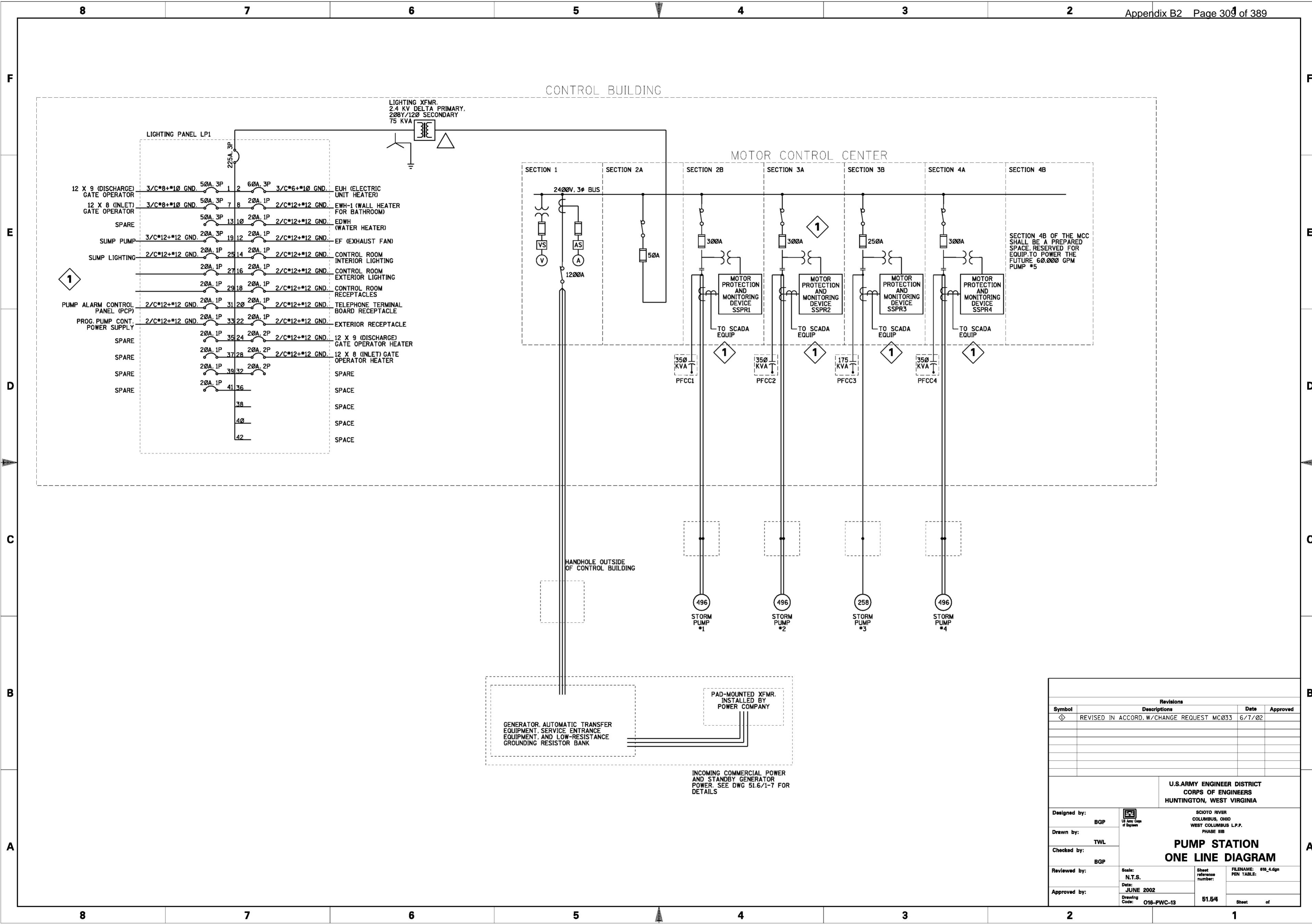


- NOTES**
1. INTERIOR AND FRONT EXTERIOR WALLS OF THE CONTROL BUILDING ARE NOT SHOWN ON THIS DRAWING
  2. GROUT SOLID ALL CELLS BEHIND PRESENT AND FUTURE PFCC LOCATIONS TO PROVIDE ADEQUATE ANCHORING STRENGTH
  3. THIS VIEW SHOWS THE SLOPED OPERATING FLOOR AT ITS HIGHEST ELEVATION, 7.03.5, WHERE IT MEETS THE WALL OF THE DISCHARGE CHAMBER.
  4. SEE SPECS FOR GROUNDING OF EQUIPMENT INSIDE PUMP STATION
  5. STUB UP ALL SPARE CONDUITS 4" ABOVE FINISHED FLOOR AND CAP
  6. "HIGH SUMP WATER LEVEL" ALARM FLOAT SWITCH. ELEV. AS DETERMINED IN FIELD BY THE CONTACTING OFFICER
  7. "PACP" IS GOVERNMENT FURNISHED PUMP ALARM CONTROL PANEL

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED IN ACCORD. W/ CHANGE REQUEST MC033	6/7/02	

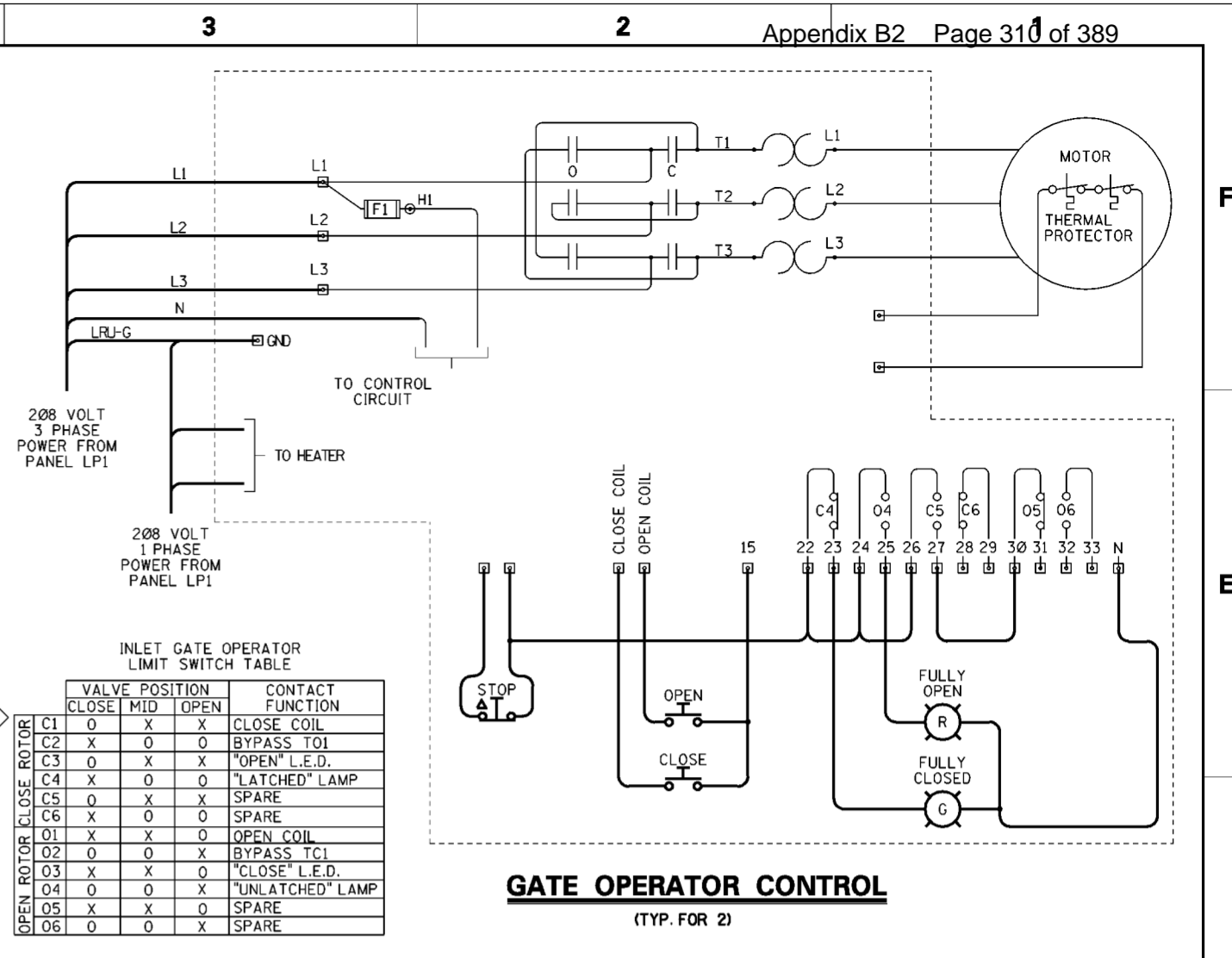
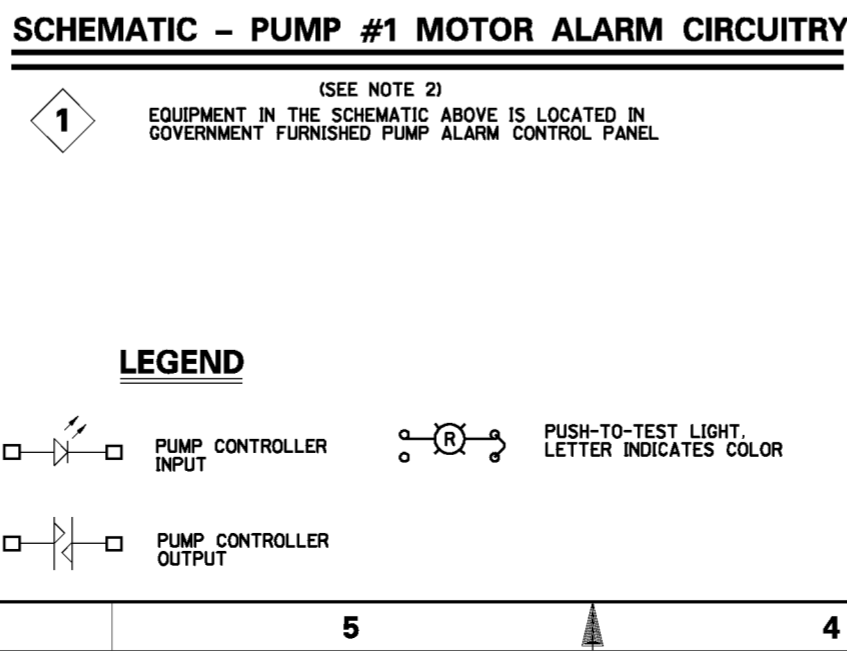
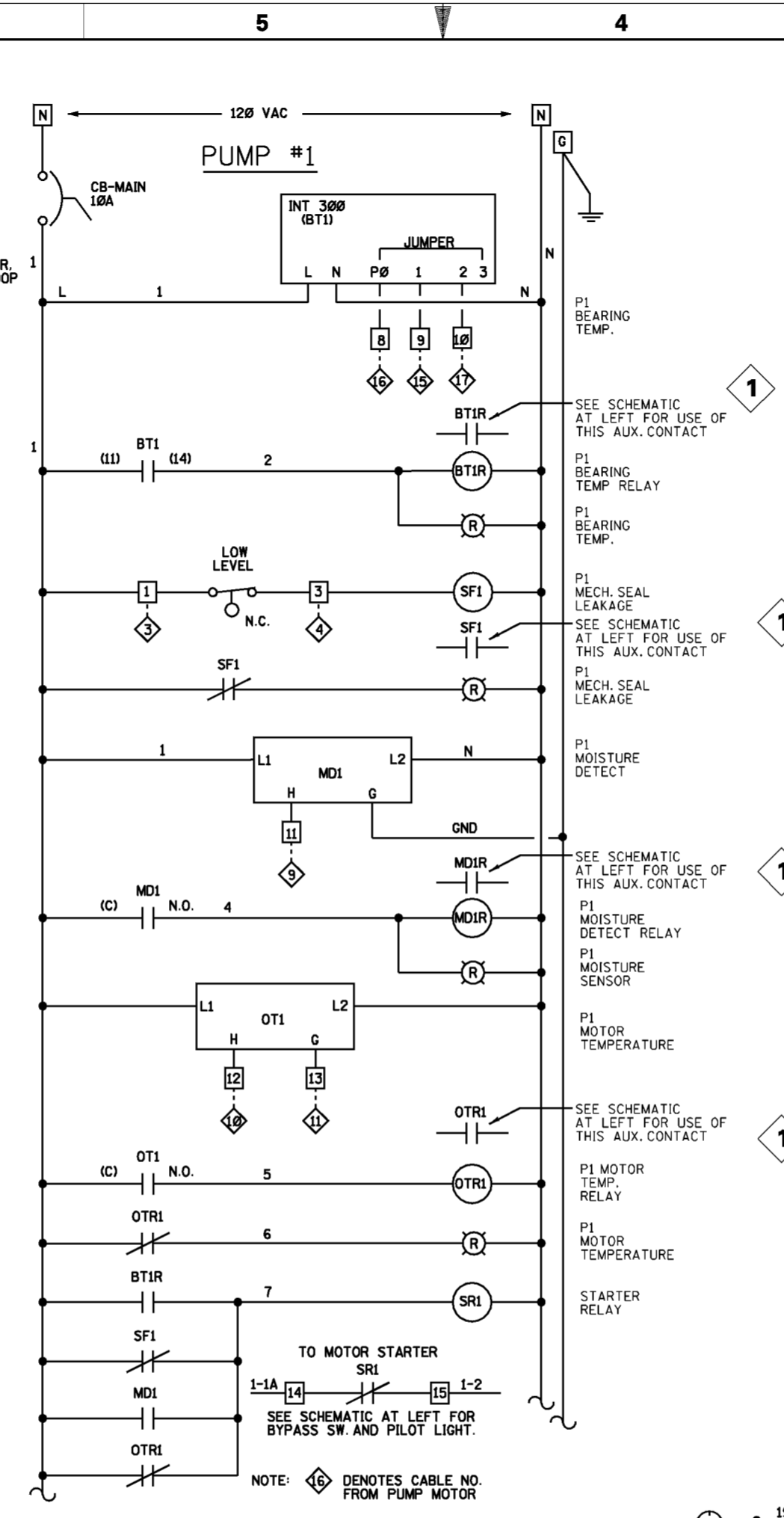
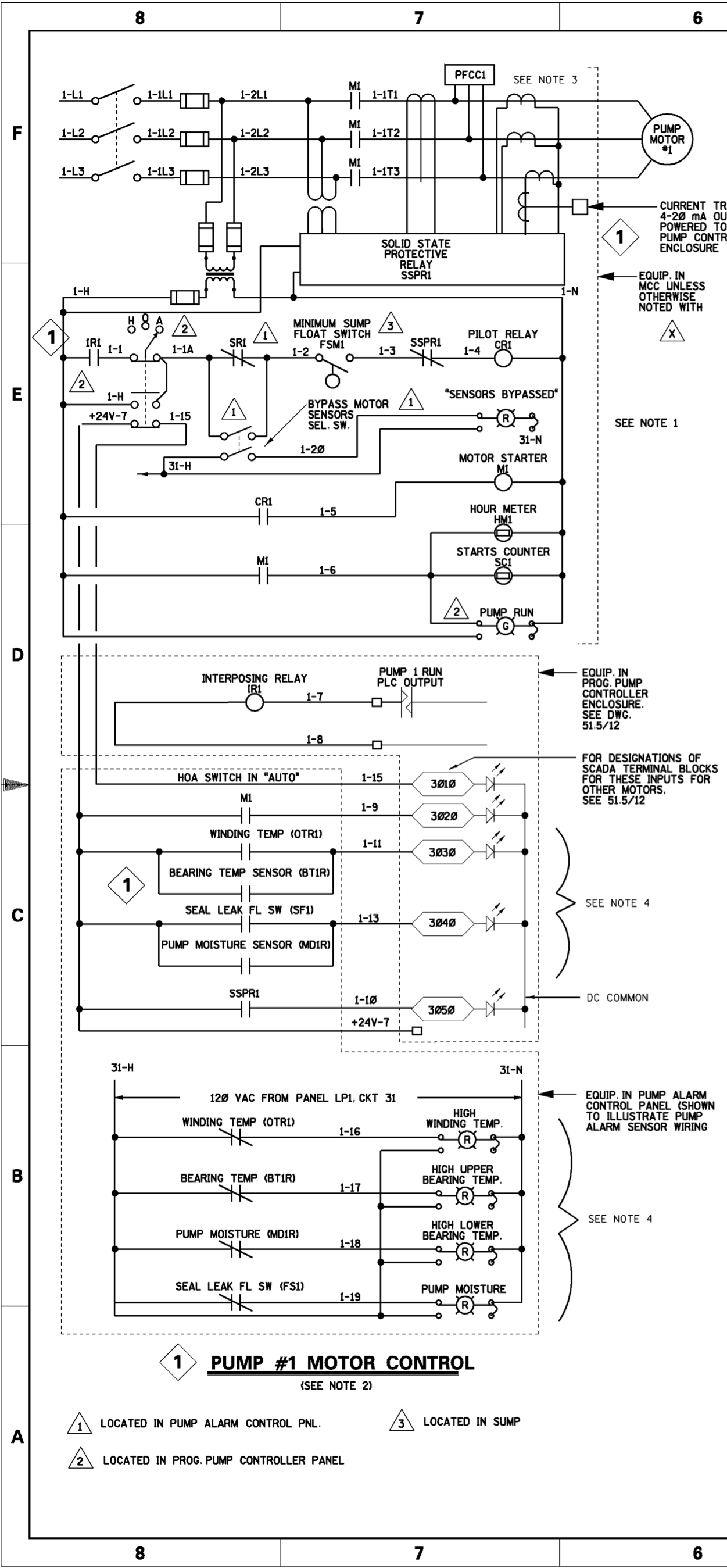
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: T.J.J.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	<b>PUMP STATION                  ELECTRICAL ELEVATIONS</b>	
Drawn by: T.J.J.		Scale: AS SHOWN	Sheet reference number: 51.53
Checked by: B.G.P.		Date: JUNE 2002	FILENAME: 016_3.dgn PEN TABLE:
Reviewed by: B.G.P.		Drawing Code: 016-PWC-13	Sheet of
Approved by:	Date:	Drawing Code:	Sheet of



Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED IN ACCORD. W/CHANGE REQUEST MC033	6/7/02	

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	BGP	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIB  <b>PUMP STATION                  ONE LINE DIAGRAM</b>	
Drawn by:	TWL		
Checked by:	BGP		
Reviewed by:			
Approved by:		Scale: N.T.S.	Sheet reference number: 51.54
		Date: JUNE 2002	FILENAME: 016_4.dgn PEN TABLE:
		Drawing Code: O16-PWC-13	Sheet of



- NOTES**
- THIS SCHEMATIC ASSUMES THAT THE MAIN PUMP MOTOR CONTACTORS USE AN A.C. COIL. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL ITEMS NECESSARY FOR THE PARTICULAR MODEL OF CONTACTOR PROVIDED, SUCH AS RECTIFIERS FOR D.C. COIL CONTACTORS.
  - SCHEMATICS FOR CONTROL OF PUMP MOTORS #2, #3, AND #4 ARE IDENTICAL EXCEPT THAT THE CONDUCTOR PREFIXES ARE 2, 3, AND 4 RESPECTIVELY, AS ARE THE DEVICE SUFFIXES. FOR EXAMPLE, THE SOLID STATE PROTECTIVE RELAY FOR PUMP #3 IS SSPR3.
  - THE CURRENT TRANSFORMERS FOR OVERLOAD PROTECTION ARE TO BE LOCATED DOWNSTREAM OF THE CAPACITOR TAPS AS SHOWN SO AS TO NOT BE AFFECTED BY CAPACITOR CURRENT. THE CURRENT TRANSFORMER FOR GROUND FAULT PROTECTION IS TO BE LOCATED UPSTREAM OF THE CAPACITOR TAPS SO AS TO PROVIDE GROUND FAULT PROTECTION TO THE CAPACITOR CIRCUIT.
  - EACH PUMP MOTOR CONTAINS FOUR SENSORS WHICH ARE CONNECTED TO FOUR RELAYS IN THE PUMP CONTROL PANEL (PCP). EACH RELAY HAS TWO OUTPUT CONTACTS, AND THE WIRING FOR THESE CONTACTS IS SHOWN ON THIS DRAWING.
  - ALL CONTROL WIRING SHALL BE #14 AWG UNLESS OTHERWISE NOTED
  - THIS DWG DOES NOT SHOW ALL PROGRAMMABLE PUMP CONTROLLER I/O. SEE OTHER 51.5 SERIES DWGS, PARTICULARLY 51.5/12, FOR OTHER I/O.
  - THE TERMS "PLC & PROGRAMMABLE PUMP CONTROLLER" ARE USED INTERCHANGEABLY.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED IN ACCORD. W/ CHANGE REQUEST MC033	6/7/02	

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

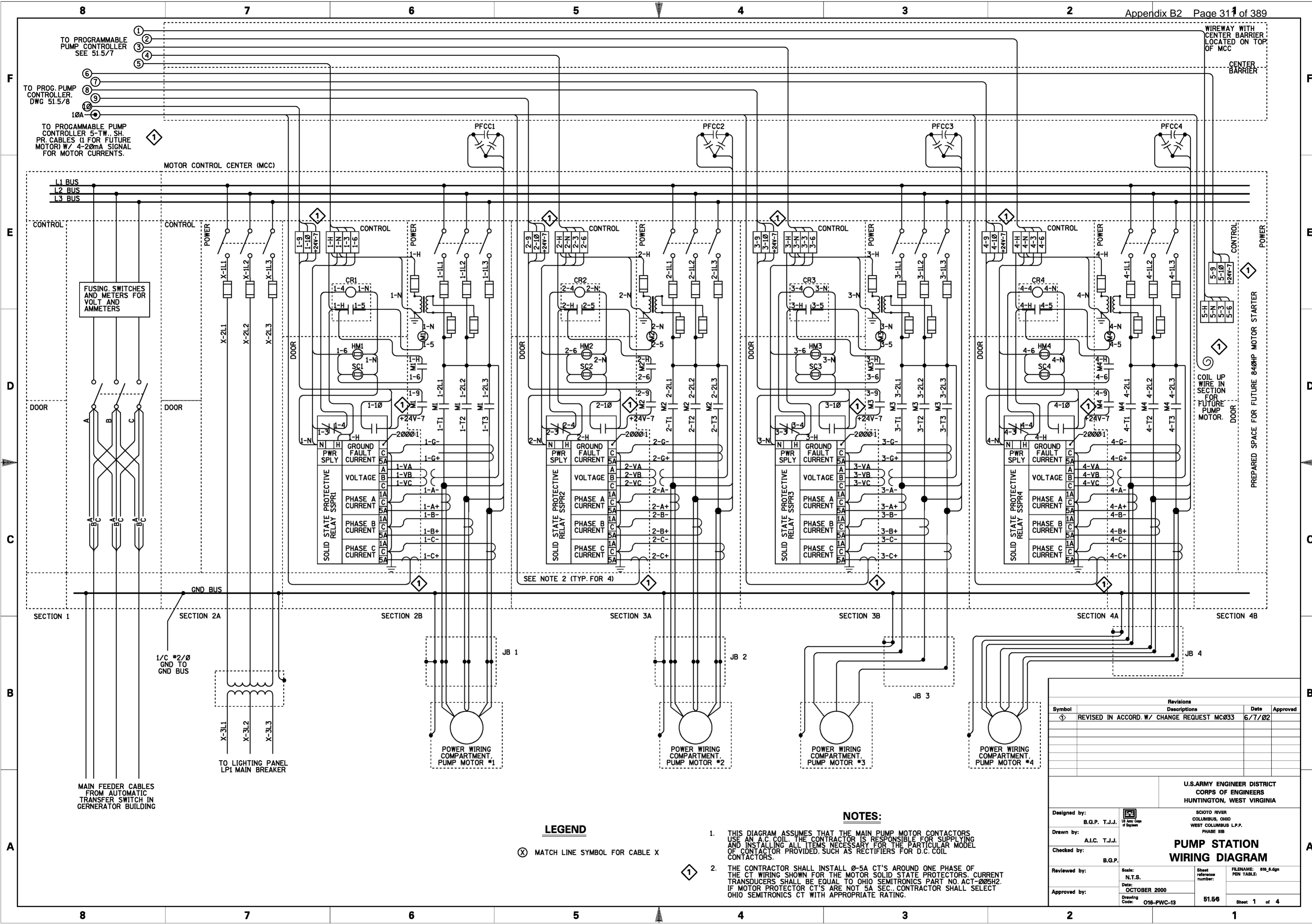
DESIGNED BY: BGP  
DRAWN BY: TWL  
CHECKED BY: BGP  
REVIEWED BY:  
APPROVED BY:

SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

**PUMP STATION SCHEMATICS**

Scale: NONE  
Date: OCTOBER 2000  
Drawing Code: 016-PWC-13

Sheet reference number: 51.56  
FILENAME: 016\_5.dgn  
PEN TABLE:  
Sheet of



**LEGEND**

⊗ MATCH LINE SYMBOL FOR CABLE X

**NOTES:**

- THIS DIAGRAM ASSUMES THAT THE MAIN PUMP MOTOR CONTACTORS USE AN A.C. COIL. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL ITEMS NECESSARY FOR THE PARTICULAR MODEL OF CONTACTOR PROVIDED, SUCH AS RECTIFIERS FOR D.C. COIL CONTACTORS.
- THE CONTRACTOR SHALL INSTALL 0-5A CT'S AROUND ONE PHASE OF THE CT WIRING SHOWN FOR THE MOTOR SOLID STATE PROTECTORS. CURRENT TRANSDUCEERS SHALL BE EQUAL TO OHIO SEMITRONICS PART NO. ACT-005H2. IF MOTOR PROTECTOR CT'S ARE NOT 5A SEC. CONTRACTOR SHALL SELECT OHIO SEMITRONICS CT WITH APPROPRIATE RATING.

Symbol	Revisions Descriptions	Date	Approved
⊕	REVISED IN ACCORD. W/ CHANGE REQUEST MC033	6/7/02	

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

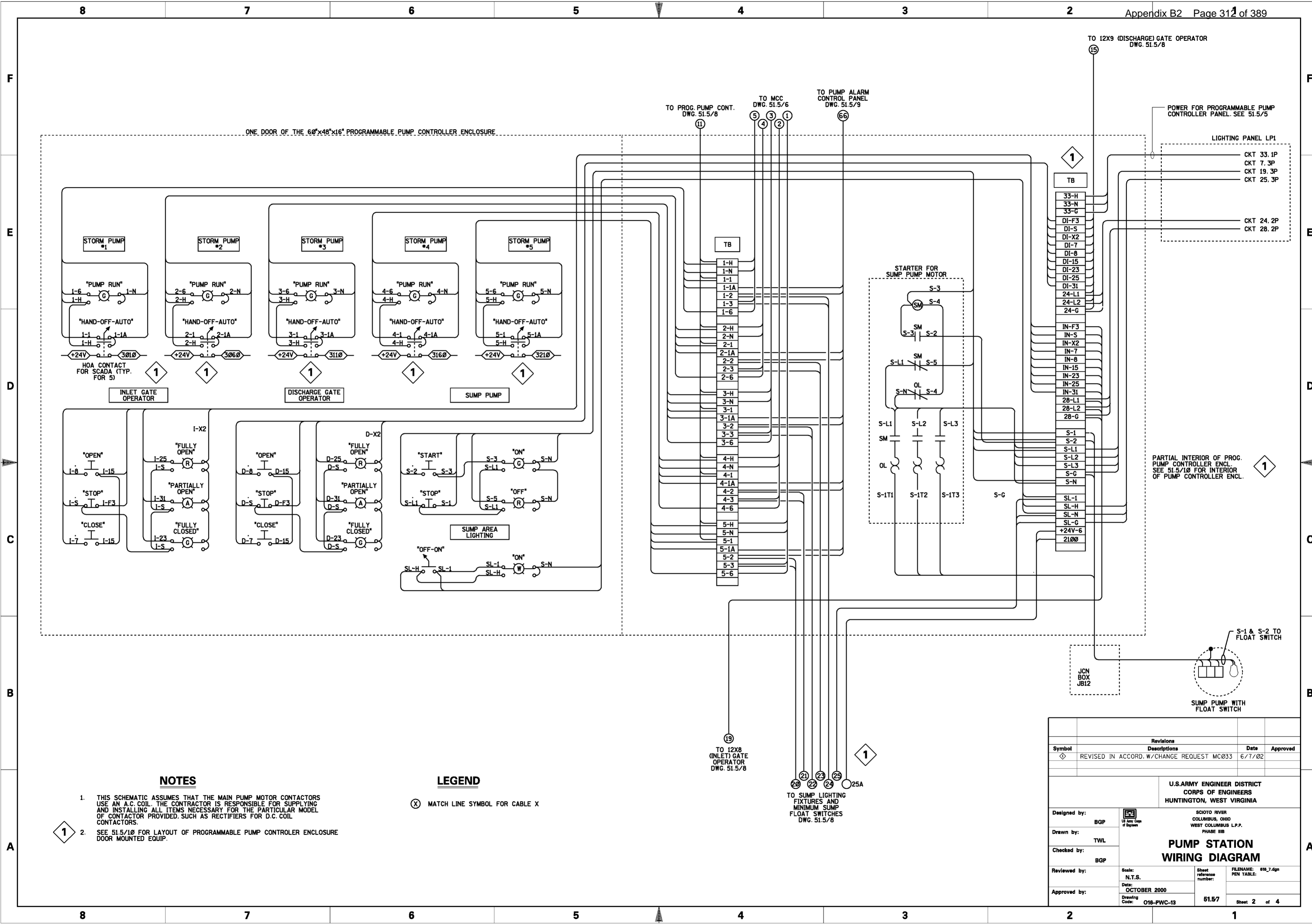
SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

**PUMP STATION WIRING DIAGRAM**

Designed by: B.G.P. T.J.J.  
Drawn by: A.I.C. T.J.J.  
Checked by: B.G.P.  
Reviewed by: N.T.S.  
Approved by: N.T.S.

Scale: N.T.S.  
Date: OCTOBER 2000  
Drawing Code: 016-PWC-13

Sheet reference number: 51.56  
FILENAME: 016\_6.dgn  
PEN TABLE:  
Sheet 1 of 4



**NOTES**

1. THIS SCHEMATIC ASSUMES THAT THE MAIN PUMP MOTOR CONTACTORS USE AN A.C. COIL. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL ITEMS NECESSARY FOR THE PARTICULAR MODEL OF CONTACTOR PROVIDED, SUCH AS RECTIFIERS FOR D.C. COIL CONTACTORS.
2. SEE 51.5/10 FOR LAYOUT OF PROGRAMMABLE PUMP CONTROLLER ENCLOSURE DOOR MOUNTED EQUIP.

**LEGEND**

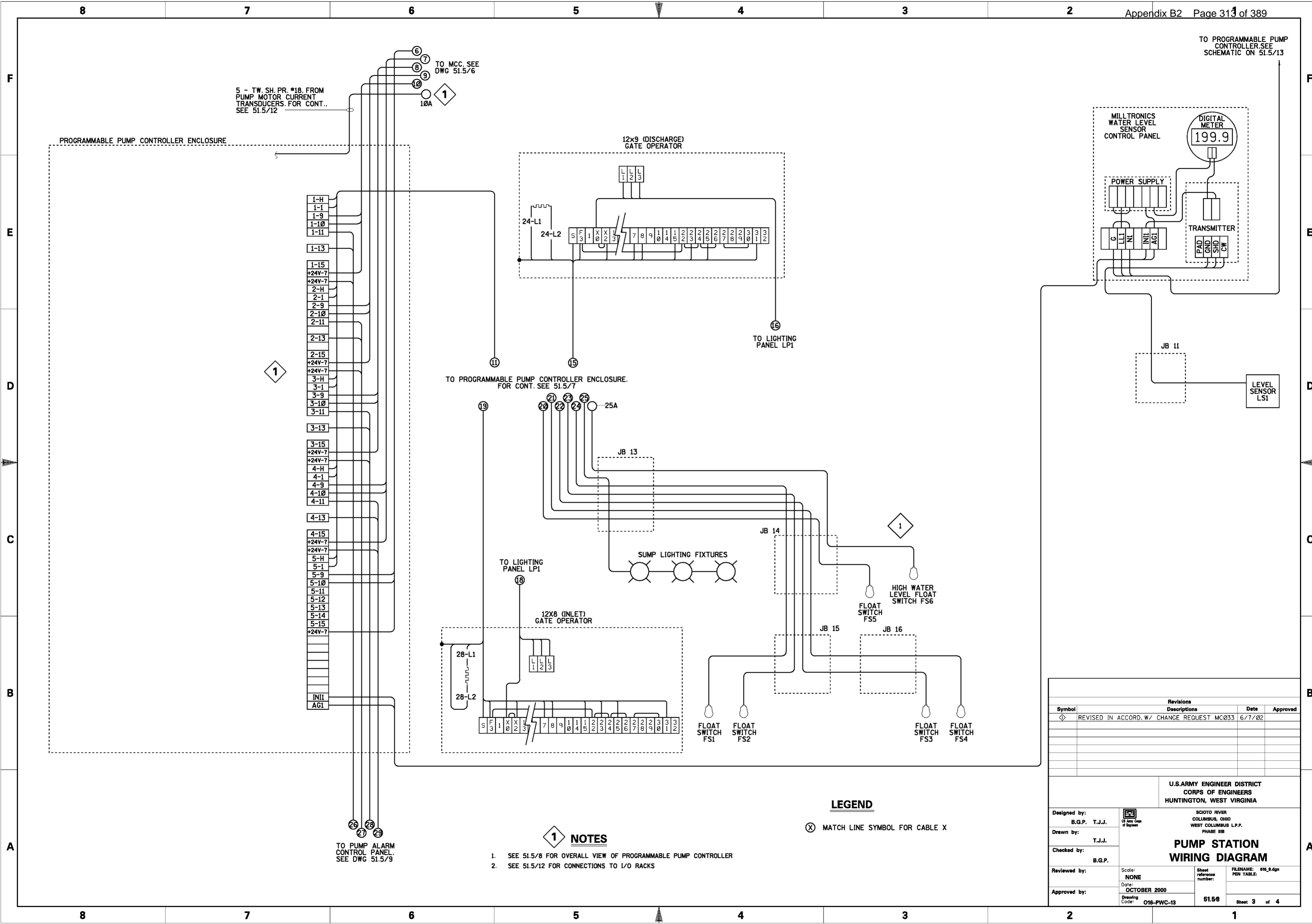
(X) MATCH LINE SYMBOL FOR CABLE X

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED IN ACCORD. W/CHANGE REQUEST MC033	6/7/02	

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: BGP	Drawn by: TWL	Checked by: BGP	Reviewed by: N.T.S. Date: OCTOBER 2000
SCIO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B		<b>PUMP STATION                  WIRING DIAGRAM</b>	
Approved by:	Scale: N.T.S. Date: OCTOBER 2000 Drawing Code: 016-PWC-13	Sheet reference number: 51.57	FILENAME: 016_7.dgn PEN TABLE:





5 - TW. SH. PR. #18, FROM PUMP MOTOR CURRENT TRANSDUCERS. FOR CONT. SEE 51.5/12

TO MCC. SEE DWG 51.5/6

TO PROGRAMMABLE PUMP CONTROLLER. SEE SCHEMATIC ON 51.5/13

1

TO PROGRAMMABLE PUMP CONTROLLER ENCLOSURE. FOR CONT. SEE 51.5/7

**1 NOTES**

- SEE 51.5/8 FOR OVERALL VIEW OF PROGRAMMABLE PUMP CONTROLLER
- SEE 51.5/12 FOR CONNECTIONS TO I/O RACKS

**LEGEND**

⊗ MATCH LINE SYMBOL FOR CABLE X

Revisions			
Symbol	Descriptions	Date	Approved
⊕	REVISED IN ACCORD. W/ CHANGE REQUEST MC033	6/7/02	

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

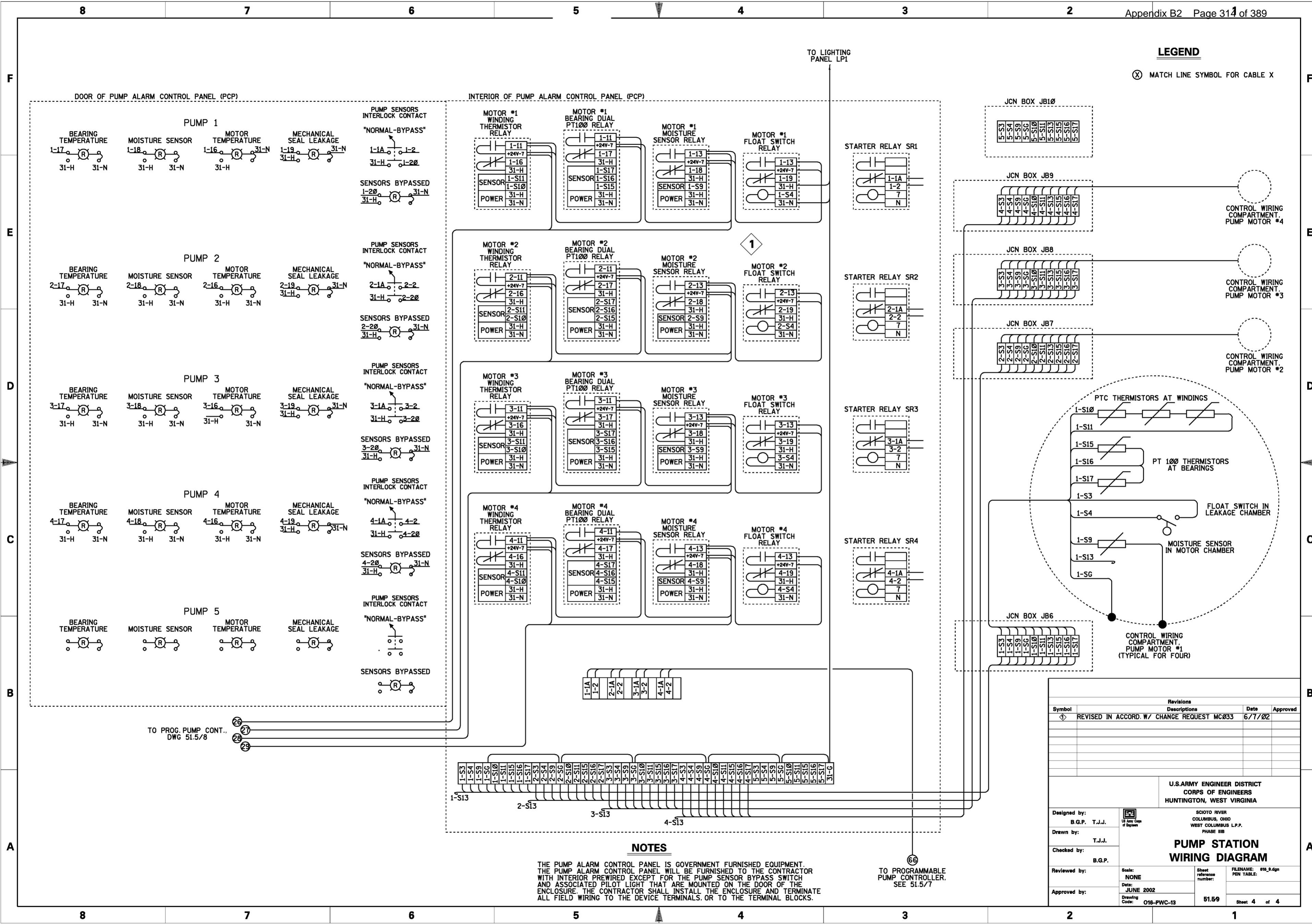
**SCOTO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B**

**PUMP STATION  
WIRING DIAGRAM**

Designed by: B.G.P. T.J.J.		Scale: NONE	Sheet reference number: 51.58	FILENAME: 016_p.dgn
Drawn by: T.J.J.		Date: OCTOBER 2000	PEN TABLE:	
Checked by: B.G.P.		Drawing Code: 016-PWC-13		Sheet 3 of 4
Reviewed by:				
Approved by:				

**LEGEND**

⊗ MATCH LINE SYMBOL FOR CABLE X



F  
E  
D  
C  
B  
A

F  
E  
D  
C  
B  
A

**NOTES**

THE PUMP ALARM CONTROL PANEL IS GOVERNMENT FURNISHED EQUIPMENT. THE PUMP ALARM CONTROL PANEL WILL BE FURNISHED TO THE CONTRACTOR WITH INTERIOR PREWIRED EXCEPT FOR THE PUMP SENSOR BYPASS SWITCH AND ASSOCIATED PILOT LIGHT THAT ARE MOUNTED ON THE DOOR OF THE ENCLOSURE. THE CONTRACTOR SHALL INSTALL THE ENCLOSURE AND TERMINATE ALL FIELD WIRING TO THE DEVICE TERMINALS, OR TO THE TERMINAL BLOCKS.

TO PROGRAMMABLE PUMP CONTROLLER. SEE 51.5/7

Symbol	Revisions Descriptions	Date	Approved
⊕	REVISED IN ACCORD. W/ CHANGE REQUEST MC033	6/7/02	

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

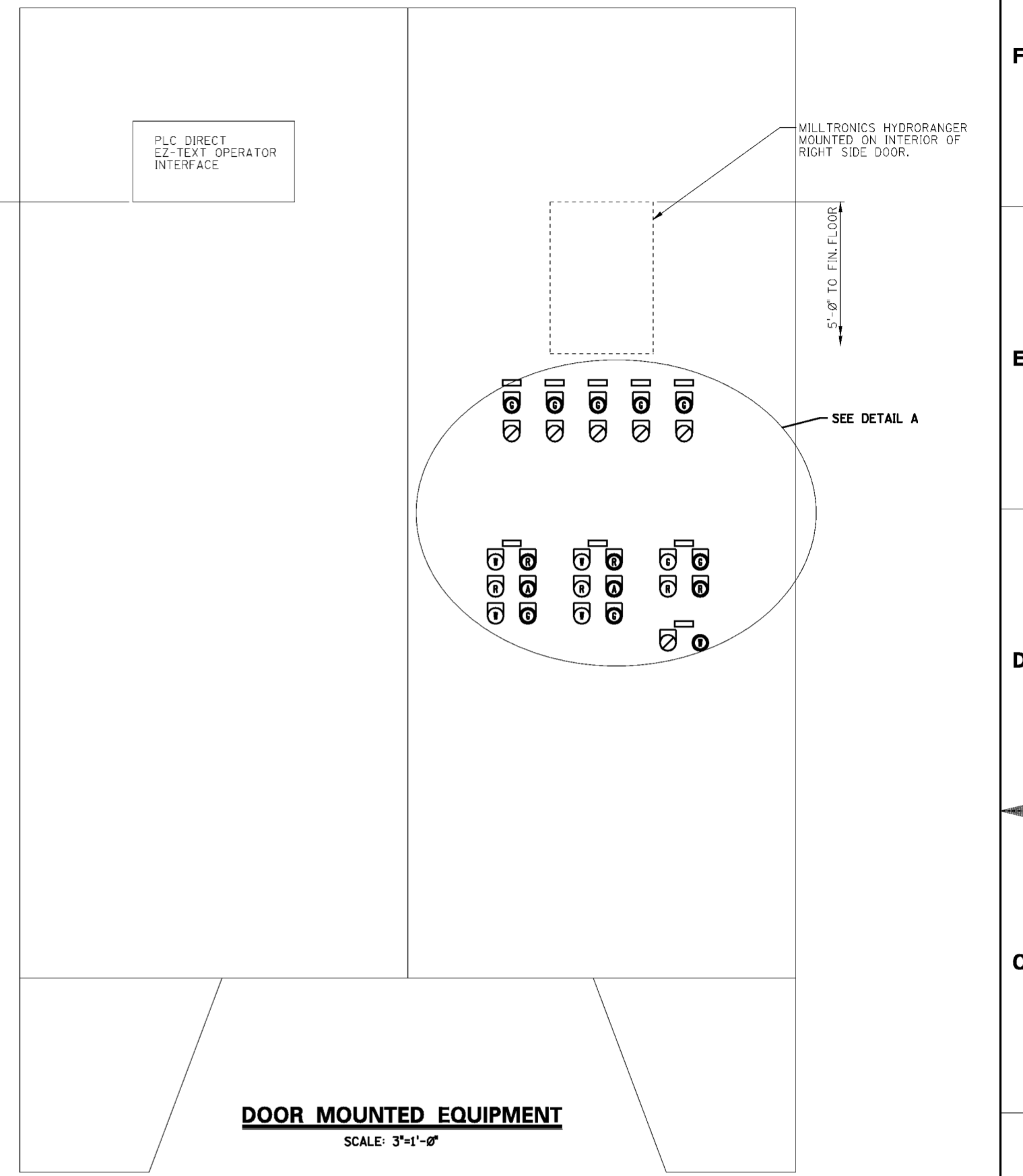
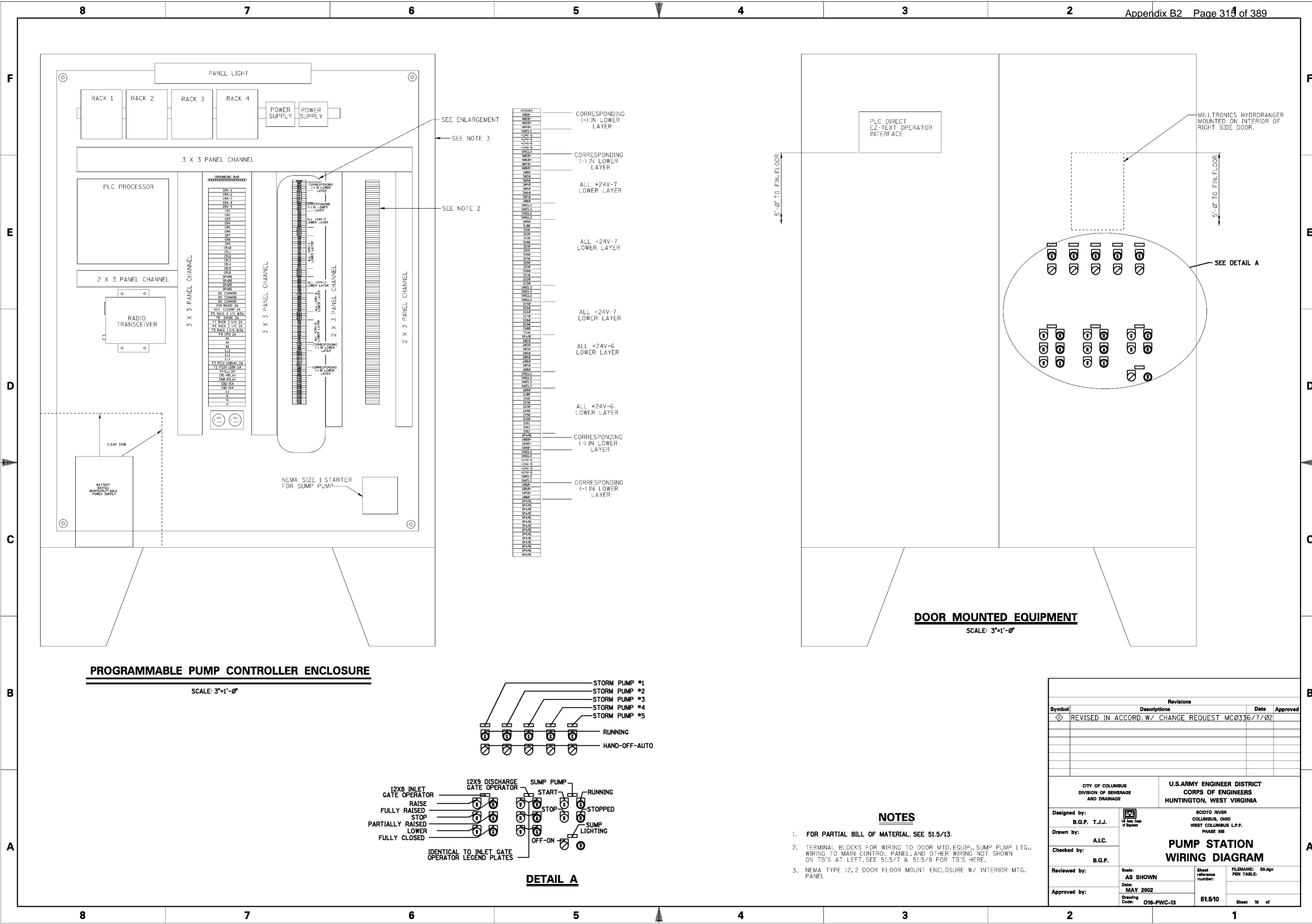
SCIO TO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

**PUMP STATION WIRING DIAGRAM**

Designed by: B.G.P. T.J.J.  
Drawn by: T.J.J.  
Checked by: B.G.P.  
Reviewed by:  
Approved by:

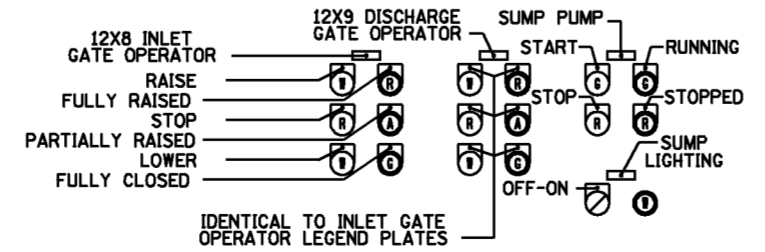
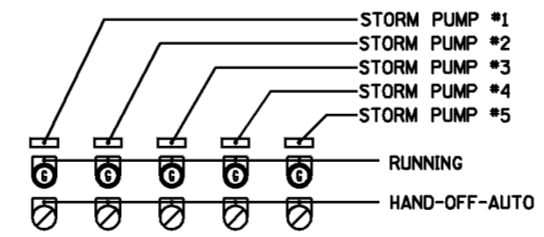
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Date: JUNE 2002  
Drawing Code: 016-PWC-13

Sheet reference number: 51.59  
FILENAME: 016\_0.dgn  
PEN TABLE:  
Sheet 4 of 4



**PROGRAMMABLE PUMP CONTROLLER ENCLOSURE**  
SCALE: 3"=1'-0"

**DOOR MOUNTED EQUIPMENT**  
SCALE: 3"=1'-0"



**DETAIL A**

**NOTES**

- FOR PARTIAL BILL OF MATERIAL, SEE 51.5/13.
- TERMINAL BLOCKS FOR WIRING TO DOOR MTD. EQUIP., SUMP PUMP LTG., WIRING TO MAIN CONTROL PANEL, AND OTHER WIRING NOT SHOWN ON TB'S AT LEFT, SEE 51.5/7 & 51.5/8 FOR TB'S HERE.
- NEMA TYPE 12.2 DOOR FLOOR MOUNT ENCLOSURE W/ INTERIOR MTG. PANEL.

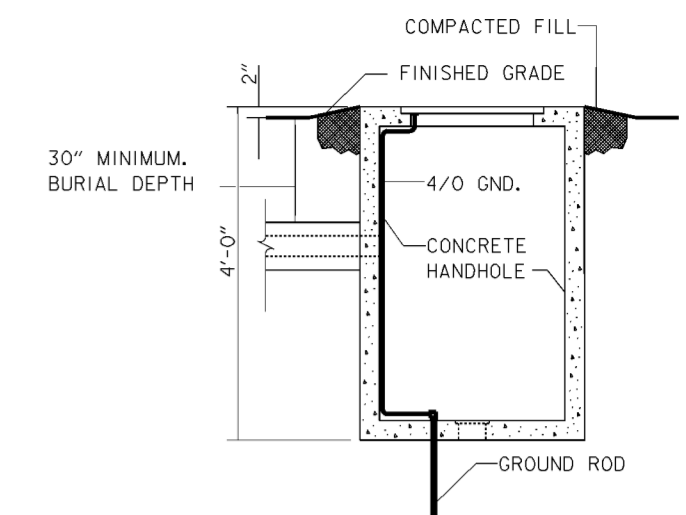
Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED IN ACCORD. W/ CHANGE REQUEST MC0336/7/02		

CITY OF COLUMBUS DIVISION OF SEWERAGE AND DRAINAGE		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: B.G.P. T.J.J.	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	Scale: AS SHOWN	FILENAME: E6.dgn PEN TABLE:
Drawn by: A.I.C.			
Checked by: B.G.P.	Date: MAY 2002	Sheet reference number: 51.5/10	Sheet 10 of
Reviewed by:			
Approved by:	Drawing Code: O16-PWC-13		

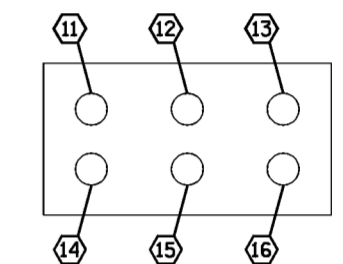
**CONDUIT SCHEDULE**

CONDUIT #	FROM	TO	CONDUIT SPEC	CABLES PER CONDUIT	COMMENTS
1	NOT USED				
2	NOT USED				
3	NOT USED				
4	NOT USED				
78	GENERATOR ENCLOSURE	HANDHOLE			
79	GENERATOR ENCLOSURE	HANDHOLE			
80	GENERATOR ENCLOSURE	HANDHOLE			
81	GENERATOR ENCLOSURE	HANDHOLE			
82	GENERATOR ENCLOSURE	HANDHOLE			
83	GENERATOR ENCLOSURE	HANDHOLE			
11	HANDHOLE	N. SIDE OF CTRL BLDG	4" RGS	NONE	
12	HANDHOLE	N. SIDE OF CTRL BLDG	4" RGS	NONE	
13	HANDHOLE	N. SIDE OF CTRL BLDG	4" RGS	NONE	
14	HANDHOLE	MCC SECTION 1	4" RGS	3 - *500 KCMIL + *2/0 GND	5 KV CABLE
15	HANDHOLE	MCC SECTION 1	4" RGS	3 - *500 KCMIL + *2/0 GND	5 KV CABLE
16	HANDHOLE	MCC SECTION 1	4" RGS	3 - *500 KCMIL + *2/0 GND	5 KV CABLE
17	2' X 2' HANDHOLE N. OF CTRL BLDG	N. SIDE OF CTRL BLDG	2" RGS	NONE	
18	2' X 2' HANDHOLE N. OF CTRL BLDG	N. SIDE OF CTRL BLDG	2" RGS	NONE	
19	CTRL RM WALL	JUNCTION BOX JB1	2" RGS	3/C *2 W/ *6 GND	5 KV CABLE
20	CTRL RM WALL	JUNCTION BOX JB1	2" RGS	3/C *2 W/ *6 GND	5 KV CABLE
21	CTRL RM WALL	JUNCTION BOX JB2	2" RGS	3/C *2 W/ *6 GND	5 KV CABLE
22	CTRL RM WALL	JUNCTION BOX JB2	2" RGS	3/C *2 W/ *6 GND	5 KV CABLE
23	CTRL RM WALL	JUNCTION BOX JB3	2" RGS	3/C *2 W/ *6 GND	5 KV CABLE
24	CTRL RM WALL	JUNCTION BOX JB4	2" RGS	3/C *2 W/ *6 GND	5 KV CABLE
25	CTRL RM WALL	JUNCTION BOX JB4	2" RGS	3/C *2 W/ *6 GND	5 KV CABLE
26	CTRL RM WALL	JUNCTION BOX JB5	2" RGS	NONE	
27	CTRL RM WALL	JUNCTION BOX JB5	2" RGS	NONE	
28	CTRL RM WALL	JUNCTION BOX JB5	2" RGS	NONE	
29	JUNCTION BOX JB1	PUMP 1	3.5" FLEX. METALLIC	3/C 25mm2 W/ 3 25/3 mm2 GND	CABLE SUPPLIED BY KSB
30	JUNCTION BOX JB1	PUMP 1	3.5" FLEX. METALLIC	3/C 25mm2 W/ 3 25/3 mm2 GND	CABLE SUPPLIED BY KSB
31	JUNCTION BOX JB2	PUMP 2	3.5" FLEX. METALLIC	3/C 25mm2 W/ 3 25/3 mm2 GND	CABLE SUPPLIED BY KSB
32	JUNCTION BOX JB2	PUMP 2	3.5" FLEX. METALLIC	3/C 25mm2 W/ 3 25/3 mm2 GND	CABLE SUPPLIED BY KSB
33	JUNCTION BOX JB3	PUMP 3	3.5" FLEX. METALLIC	3/C 25mm2 W/ 3 25/3 mm2 GND	CABLE SUPPLIED BY KSB
34	JUNCTION BOX JB4	PUMP 4	3.5" FLEX. METALLIC	3/C 25mm2 W/ 3 25/3 mm2 GND	CABLE SUPPLIED BY KSB
35	JUNCTION BOX JB4	PUMP 4	3.5" FLEX. METALLIC	3/C 25mm2 W/ 3 25/3 mm2 GND	CABLE SUPPLIED BY KSB
36	PUMP CONTROL PANEL (PCP)	JUNCTION BOX JB6	2" RGS	4 10/C *14	
37	JUNCTION BOX JB6	JUNCTION BOX JB7	2" RGS	3 10/C *14	
38	JUNCTION BOX JB7	JUNCTION BOX JB8	2" RGS	2 10/C *14	
39	JUNCTION BOX JB8	JUNCTION BOX JB9	2" RGS	1 10/C *14	
40	JUNCTION BOX JB9	JUNCTION BOX JB10	2" RGS	NONE	
41	JUNCTION BOX JB6	PUMP 1	1" FLEX. METALLIC	10/C 1.5mm2	CABLE SUPPLIED BY KSB
42	JUNCTION BOX JB7	PUMP 2	1" FLEX. METALLIC	10/C 1.5mm2	CABLE SUPPLIED BY KSB
43	JUNCTION BOX JB8	PUMP 3	1" FLEX. METALLIC	10/C 1.5mm2	CABLE SUPPLIED BY KSB
44	JUNCTION BOX JB9	PUMP 4	1" FLEX. METALLIC	10/C 1.5mm2	CABLE SUPPLIED BY KSB
45	MAIN CONTROL PANEL (MCP)	12 X 9 GATE OPERATOR	1" RGS	12/C *12	
46	LIGHTING PANEL (LP1)	12 X 9 GATE OPERATOR	1" RGS	3/C *8 W/ *10 GND.	
47	MAIN CONTROL PANEL (MCP)	12 X 8 GATE OPERATOR	1" RGS	12/C *12	
48	LIGHTING PANEL (LP1)	12 X 8 GATE OPERATOR	1" RGS	3/C *8 W/ *10 GND.	
49	LEVEL CTRL PANELS (LCP1 & LCP2)	JUNCTION BOX JB11	2" RGS	2 RF COAX CABLES	FOR LEVEL TRANSMITTERS
50	MAIN CONTROL PANEL (MCP)	JUNCTION BOX JB12	2" RGS	6/C *12	FOR SUMP PUMP
51	MAIN CONTROL PANEL (MCP)	JUNCTION BOX JB13	2" RGS	2/C *12 W/ *12 GND. + 5 - 2/C*12	FOR SUMP LIGHTING & FLOAT SWITCHES
52	STUP-UP, S.E. CORNER CTRL BLDG	N. WALL OF SUMP AREA	2" RGS	NONE	SPARE CONDUIT
53	JUNCTION BOX JB11	MAIN LEVEL XMTR LT1	3/4" RGS	RF COAX CABLE	
54	JUNCTION BOX JB11	BACKUP LEVEL XMTR LT2	3/4" RGS	RF COAX CABLE	
55	JUNCTION BOX JB12	WALL ABOVE SUMP PUMP	2" RGS	6/C *12	
56	JUNCTION BOX JB13	SUMP LIGHT FIXTURE	3/4" RGS	2/C *12 W/ *12 GND	
57	SUMP LIGHT FIXTURE	SUMP LIGHT FIXTURE	3/4" RGS	2/C *12 W/ *12 GND	
58	SUMP LIGHT FIXTURE	SUMP LIGHT FIXTURE	3/4" RGS	2/C *12 W/ *12 GND	
59	JUNCTION BOX JB13	JUNCTION BOX JB14	2" RGS	5 - 2/C*12	
60	JUNCTION BOX JB14	JUNCTION BOX JB15	2" RGS	4 - 2/C*12	
61	JUNCTION BOX JB15	JUNCTION BOX JB16	1" RGS	2 - 2/C*12	
62	MCC SECTION 2A	LIGHTING XFMR	1" RGS	3/C*8 W/ *8 GND.	5 KV CABLE
63	LIGHTING XFMR	LIGHTING PANEL (LP1)	3" RGS	4 - *4/0 + *4 GND.	
64	PLC	WIREWAY ABOVE MCC	2" RGS	5 - 3/C *12	
65	MAIN CTRL PANEL (MCP)	WIREWAY ABOVE MCC	2" RGS	5 - 4/C *12	
66	MAIN CTRL PANEL (MCP)	PUMP ALARM CTRL PNL	1" RGS	10/C *14	BYPASS SW. - PUMP SENSOR INTERLOCK

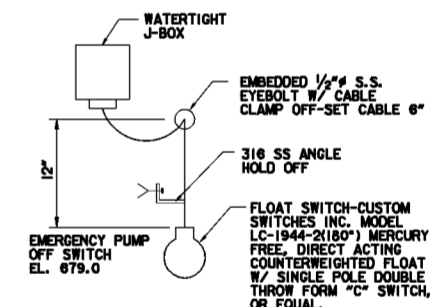
SEE DWG. 51.6/5 FOR CONDUIT SIZE, CABLING INFORMATION AND COMMENTS



**HANDHOLE SECTION DETAIL**  
NOT TO SCALE  
SEE DWG 51.5/2. FOR LOCATION OF HANDHOLE



**SECTION D-D**  
SCALE: 1/2" = 1' - 0"  
NOTE THAT HORIZONTAL SPACING OF CONDUITS IS 12"

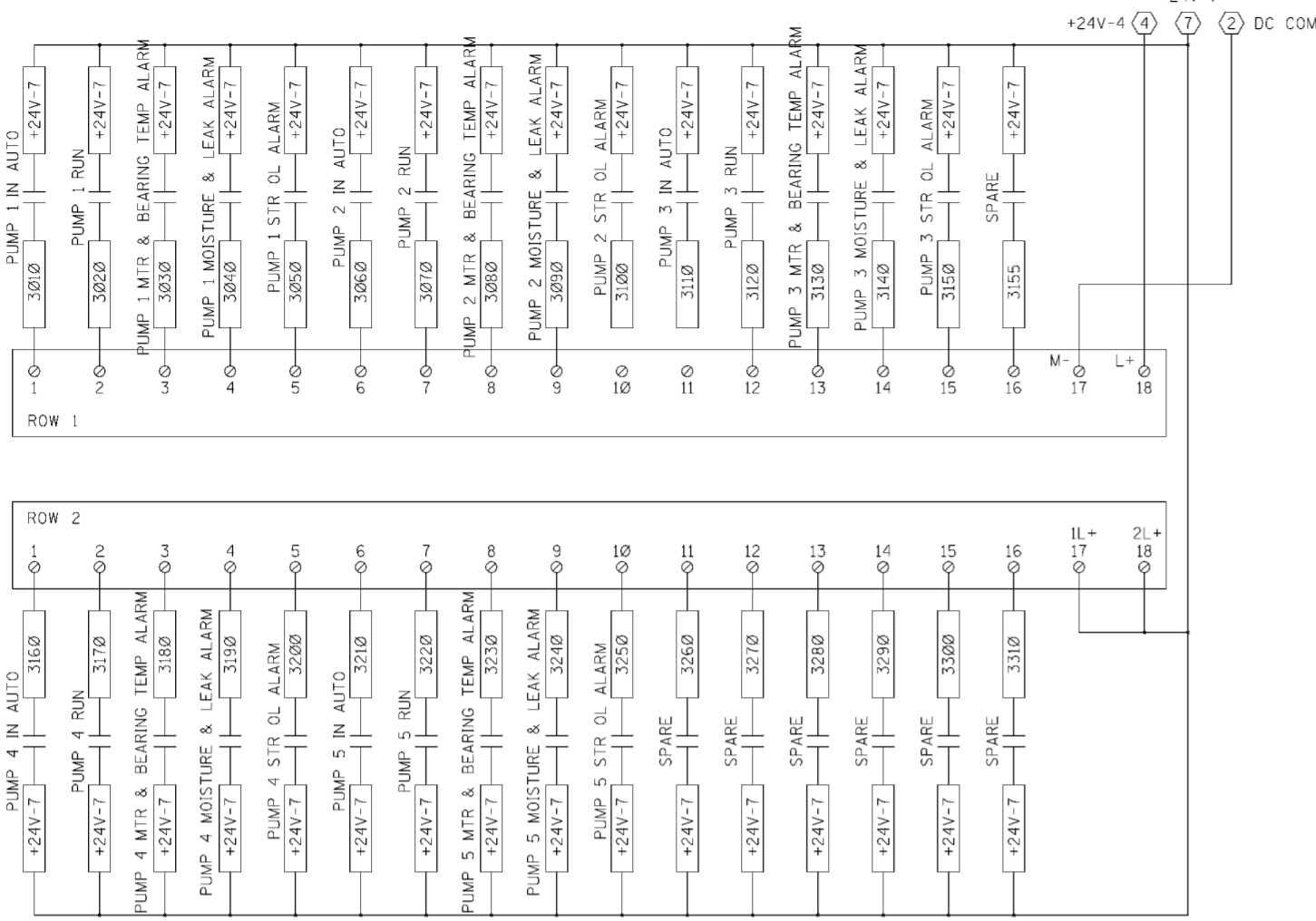


**FLOAT SWITCH DETAIL**  
NO SCALE

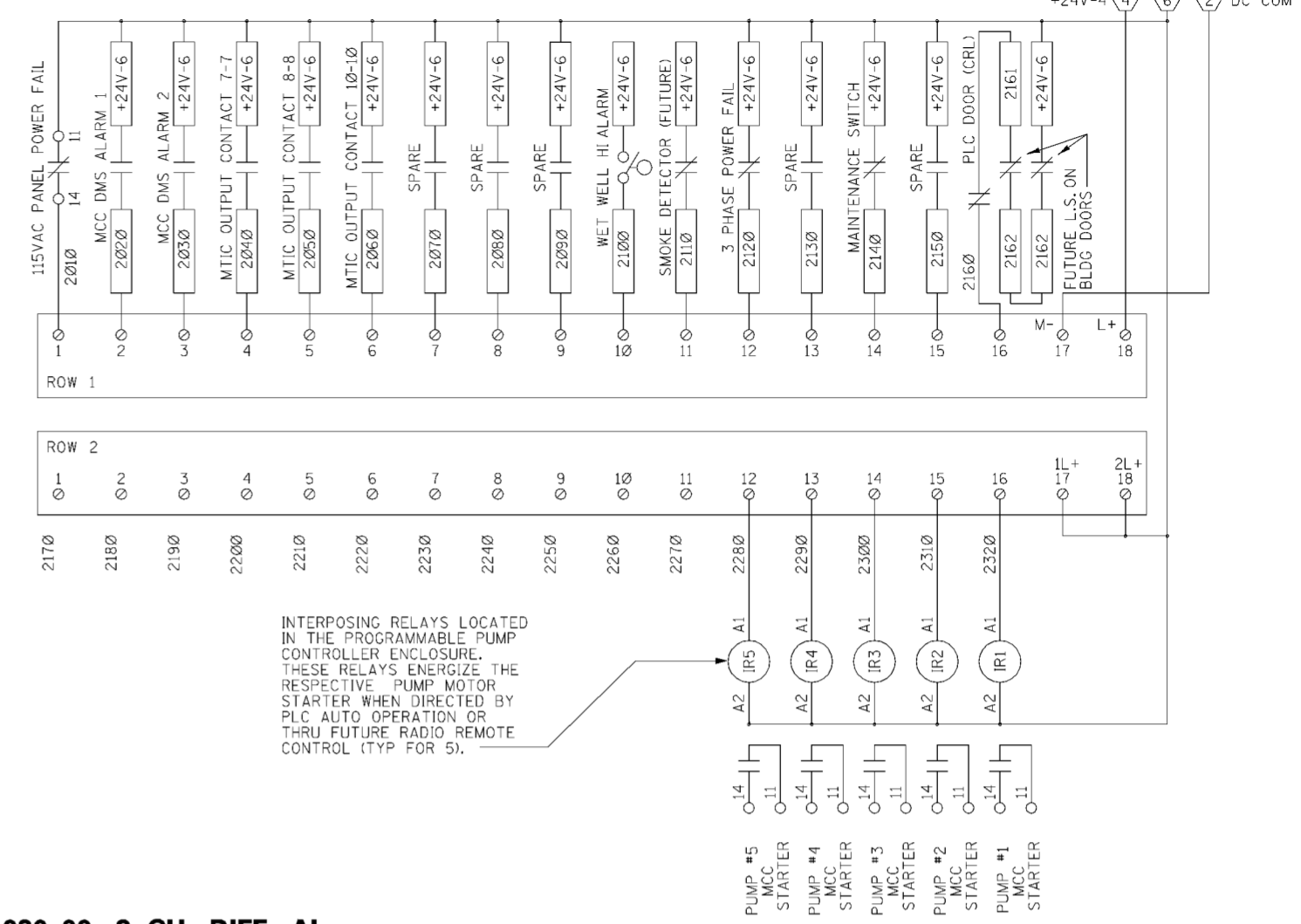
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	T.J.J.	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	<b>PUMP STATION CONDUIT SCHEDULE &amp; DETAILS</b>
Drawn by:	T.J.J.		
Checked by:	B.G.P.	Scale: NONE	Sheet reference number: 51.5/11
Reviewed by:		Date: OCTOBER 2000	FILENAME: 515.11.dgn PEN TABLE:
Approved by:		Drawing Code: O16-PWC-13	Sheet of

**RACK 3, 170-ADI-350-00, 32 DIGITAL INPUT**

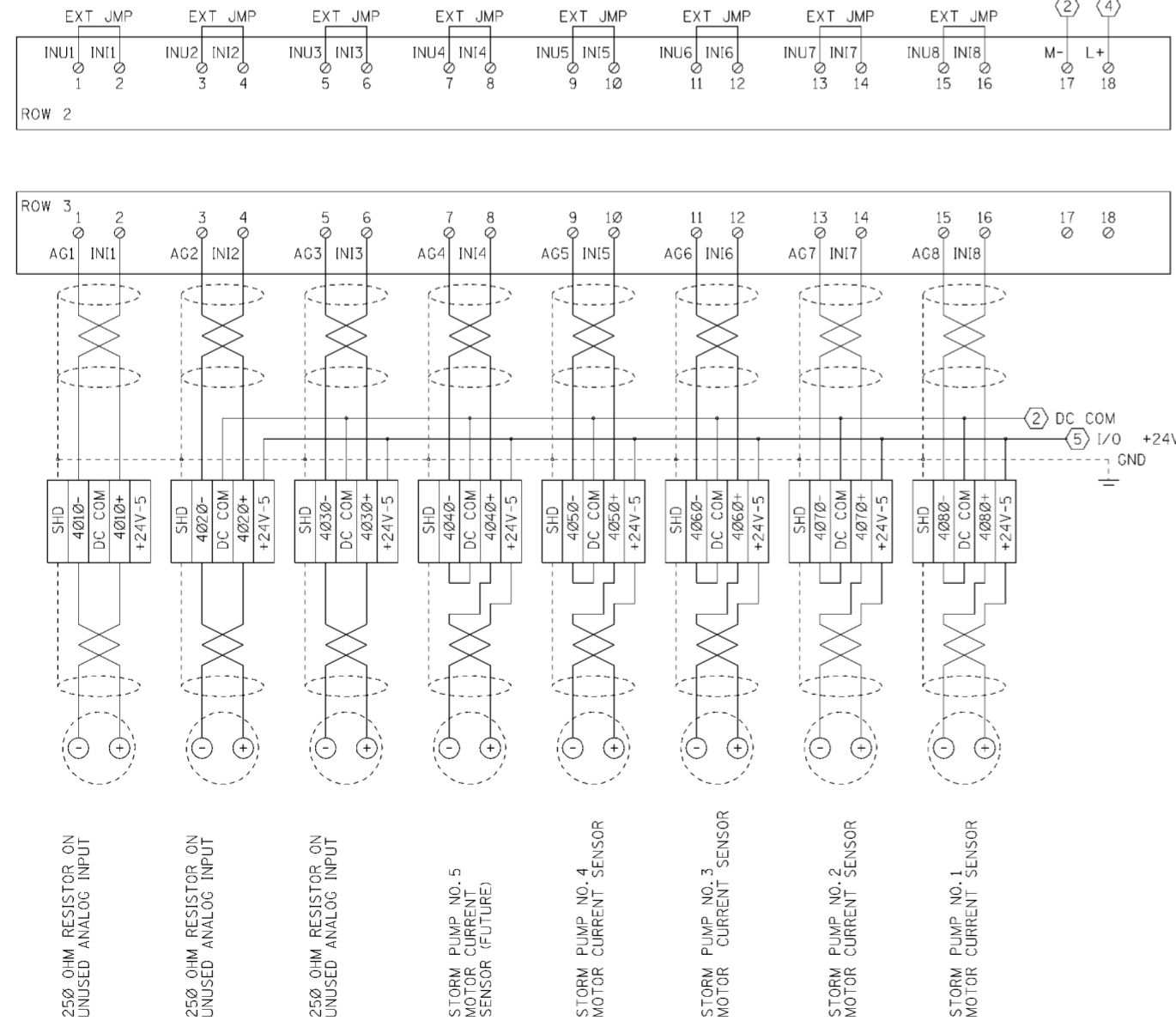


**RACK 2, 170-ADI-350-10, 16 DI/16 DO**

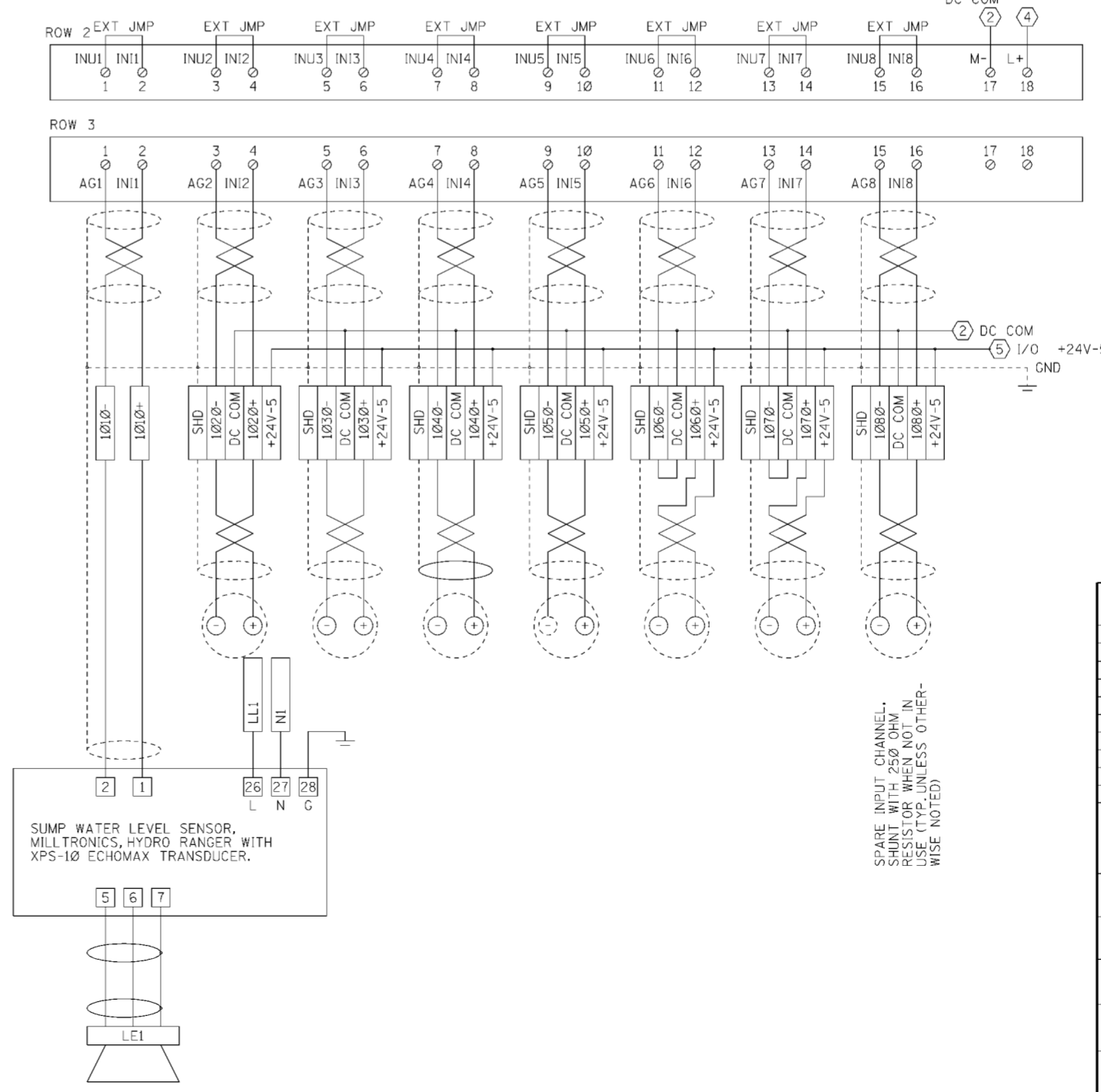


INTERPOSING RELAYS LOCATED IN THE PROGRAMMABLE PUMP CONTROLLER ENCLOSURE. THESE RELAYS ENERGIZE THE RESPECTIVE PUMP MOTOR STARTER WHEN DIRECTED BY PLC AUTO OPERATION OR THRU FUTURE RADIO REMOTE CONTROL (TYP FOR 5).

**RACK 4, 170-AAI-030-00, 8 CH. DIFF. AI**



**RACK 1, 170-AAI-030-00, 8 CH. DIFF. AI**



**NOTES**

1. FOR LOCATION OF I/O RACKS, SEE 51.5/10

Revisions			
Symbol	Descriptions	Date	Approved
◇	NEW DWG., IN ACCORD. W/CHANGE REQUEST MC033	6/7/02	

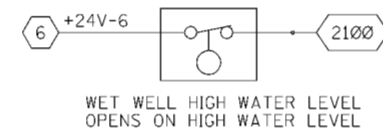
CITY OF COLUMBUS DIVISION OF SEWERAGE AND DRAINAGE		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	BGP	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	
Drawn by:	TWL	<b>PUMP STATION PUMP CONTROLLER I/O</b>	
Checked by:	BGP	Scale:	None
Reviewed by:		Date:	JUNE 2002
Approved by:		Drawing Code:	O16-PWC-13
		Sheet reference number:	51.5/12
		FILENAME:	016_12.dgn
		PEN TABLE:	
		Sheet	of

**PARTIAL BILL OF MATERIAL FOR PROGRAMMABLE PUMP CONTROLLER**

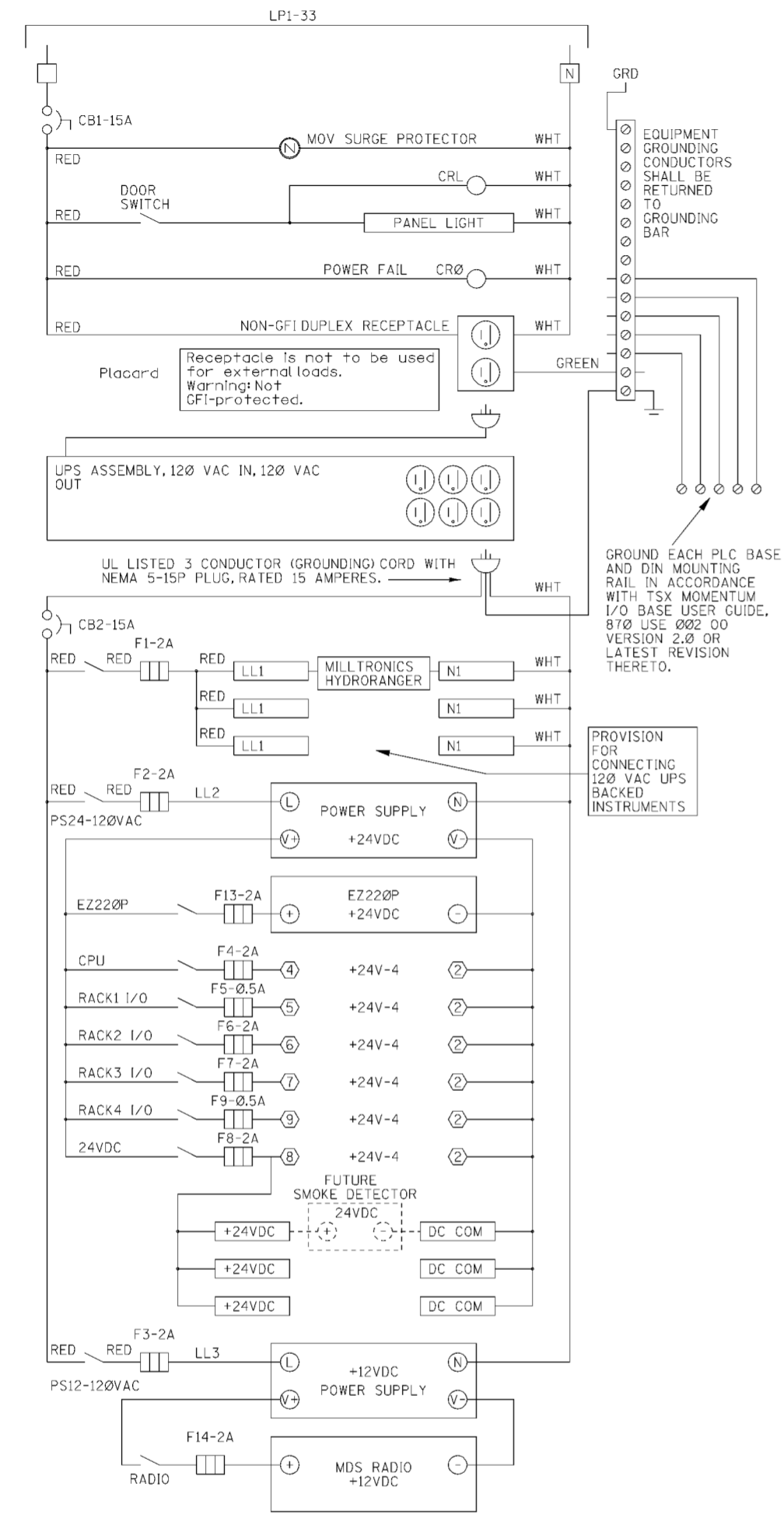
ITEM	MFG	PART NO.	DESCRIPTION	QTY
01a	MODICON	171-CCS-760-00	Momentum CPU (IEC) 256K, RS232, INTERBUS-S I/O BUS	1
01b	MODICON	172-JNN-210-32	Momentum OPTION ADAPTOR RS232: REALTIME CLOCK, BATTERY	A/R
01c	MODICON	170-AAI-030-00	Momentum: 8 CHANNEL DIFFERENTIAL ANALOG INPUTS	2
01d	MODICON	170-ADM-350-10	Momentum: DIGITAL I/O BASE: 16PT IN 16PT OUT 24VDC	A/R
01e	MODICON	170-ADI-350-00	Momentum: 32 pt Digital Input (24vdc) card	1
01f	MODICON	170-INT-110-00	Momentum: INTERBUS-S COMMUNICATION ADAPTOR	A/R
01g	MODICON	170-MCI-007-00	Momentum: INTERBUS-S ADAPTOR CABLE	A/R
01h	MODICON	170-XTS-001-00	Momentum: SCREW TERMINAL (UP TO 12 GA WIRE)	A/R
02a	PLC-DIRECT	EZ220P	EZ Text operator interface	1
3	OMRON	S82K-05024	DC Power Supply: Din Rail Mounted, 24 VDC@2.1 Amps	A/R
4	OMRON	S82K-03012	DC Power Supply: Din Rail Mounted, 12 VDC@2.5 Amps	A/R
05a	HOFFMAN	A-LF16M18	18" Panel Light with Integral Switch	1
05b	HOFFMAN	ALFSD	Remote Door Switch	1
6	ALTEK INDUSTRIES	1GU15	Altech circuit breakers (15 amp)	A/R
07a	ALLEN BRADLEY	1492-H6	Terminal Block - Fuse Disconnect	A/R
07b	ALLEN BRADLEY	1492-HM1	Terminal Block - Single Density	A/R
07c	ALLEN BRADLEY	1492-NM36	Terminal Block - Single Density End Barrier	A/R
07d	ALLEN BRADLEY	1492-HM2	Terminal Block - Double Density	A/R
07e	ALLEN BRADLEY	1492-NM36	Terminal Block - Single Density End Barrier	A/R
07f	ALLEN BRADLEY	1492-CAM1	Terminal Block - Single Density, High Current	A/R
07g	ALLEN BRADLEY	1492-NM16	Terminal Block - Single Density, High Current End Barrier	A/R
07h	ALLEN BRADLEY	199-DR1	Din Rail	A/R
8	ILSCO	D-167	Ground Busbar	1
9	TRIPP LITE	BC 600 Pro	UPS System	1
10a	RED DOT	BWF-B-5	Receptacle Box - 2" x 4"	1
10b	HUBBELL, INC	CR15	Receptacle - Duplex Outlet	1
10c	HUBBELL, INC	S8	Receptacle Cover	1
11a	MDS (MICROWAVE DATA SYSTEMS)	MDS-9710a OR MDS-9810a	RADIO REMOTE, 950 MHZ, MAS OR SPREAD SPECTRUM (GOVERNMENT FURNISHED - CITY OF COLUMBUS FOR INSTALL BY CONTRACTOR)	1
11c	PolyPhaser	IS-B50LNC2	Radio Surge Protector, Bulk Head connect, N Female	A/R
12	C&K	Y10013-2V203N0	Key switches SP 45° Index, Nickel, Tubular Tumbler, SS face, Solder lug	1
17a	PANDUIT	E2X3LG6	Panduit Wire Raceway - 2" x 3"	A/R
17b	PANDUIT	C2LG6	Panduit Wire Raceway Cover - 2" (Gray)	A/R
18	PHOENIX CONTACT	29.66.19.7	120VAC PLC-RSC-120UL/21	A/R
19	PHOENIX CONTACT	29.66.17.1	24VDC PLC-RSC 24VDC/21	A/R
20	DIGIKEY	P7229-ND	MOV SURGE ABSORBERS	A/R
29g	OHIO SEMITRONICS	ACT-005E2	0-5A loop powered, 4-20 mA Output	5
H1	HOFFMAN	A/R	NEMA 12/13, Single Door Enclosure	1
H2	HOFFMAN	A/R	Panel, Steel, White	1

- RELAY COIL, STRETCHED TO CONTAIN DESIGNATION
- RELAY COIL
- DIN RAIL MOUNTED CIRCUIT BREAKER WITH LABEL DESIGNATION AND RATED AMPERAGE
- DIN RAIL MOUNTED FUSED DISCONNECTOR WITH LABEL DESIGNATION AND FUSE AMPERAGE
- RELAY CONTACT WITH DEVICE TERMINAL DESIGNATION
- UL LISTED 3 CONDUCTOR (GROUNDING) CORD WITH NEMA 5-15P PLUG, RATED 15 AMPERES.
- TERMINAL STRIP BLOCK ON DIN RAIL AND LABEL NOTE THAT MOST TERMINAL BLOCKS ARE MULTI-LAYERED, LABEL APPLIES TO TOP MOST LAYER, LOWER LAYERS ARE TO BE WIRED TO ASSOCIATED 24 VDC SUPPLY OR ASSOCIATED SIGNAL PAIR.
- TERMINAL ON DIN RAIL WITH IDENTIFICATION TO BE APPLIED TO LABEL STRIP

**LEGEND**



**SCHEMATIC - FLOAT FOR SUMP HIGH WATER LEVEL**



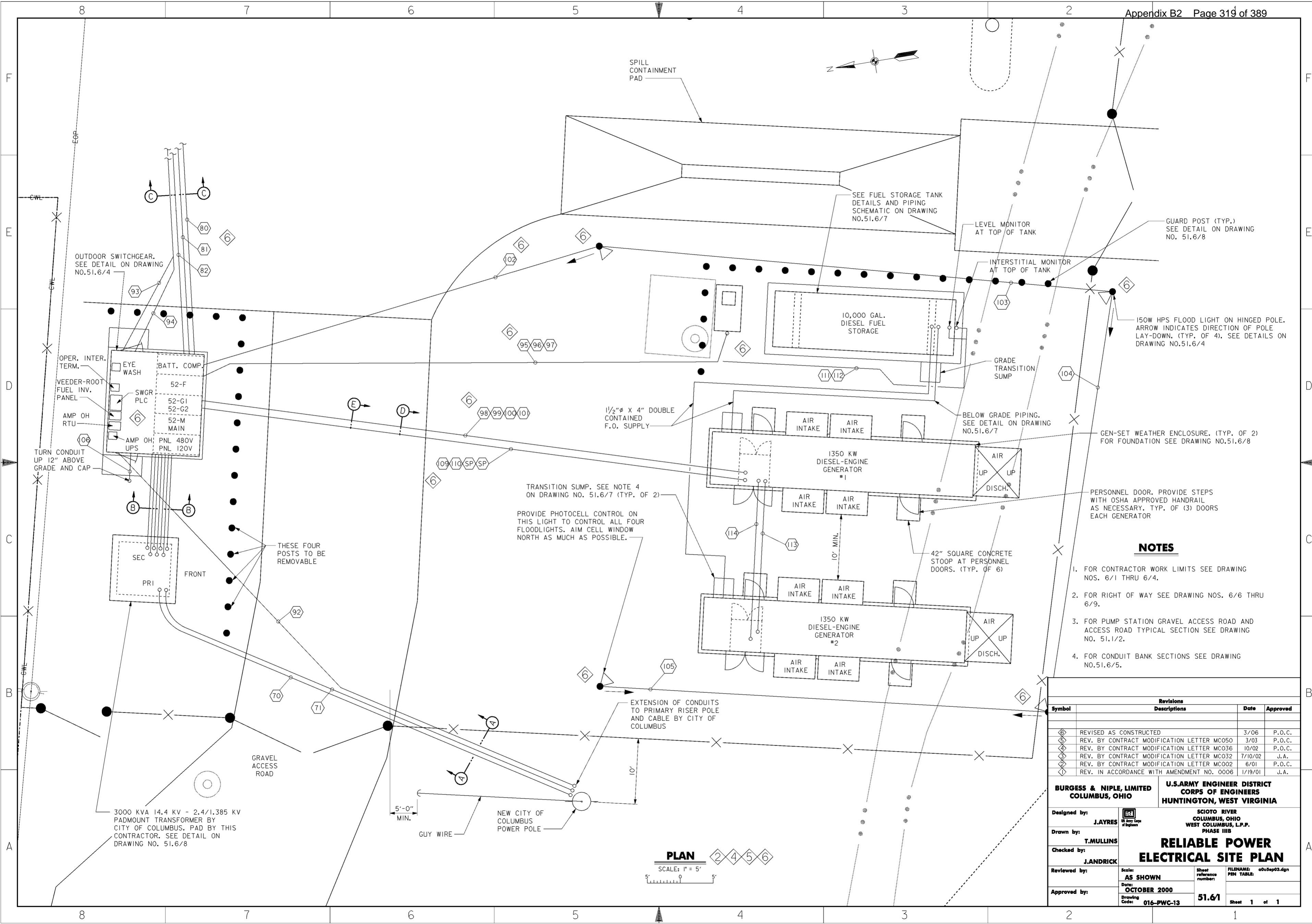
**SCHEMATIC - PROGRAMMABLE PUMP CONTROLLER AND RELATED EQUIPMENT**

**NOTES**

1. WIRING LABELS SHALL BE MACHINE PRINTED, SHRINK ON, WITH PROTECTIVE CLEAR COVERING.
2. PROVIDE DEVICE LABELS AS NOTED ON DRAWING.
3. PROVIDE BELDEN 8719 (600 V, 2 COND, #16 GAGE, SHIELDED, #18 DRAIN) FROM MCC TO SCADA PANEL. INSULATE SHIELDS AT MCC. GROUND AT SCADA PANEL.

Revisions			
Symbol	Descriptions	Date	Approved
◇	NEW DWG. IN ACCORD. W/ CHANGE REQUEST MC033	6/7/02	

CITY OF COLUMBUS DIVISION OF SEWERAGE AND DRAINAGE		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: BGP		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III B	
Drawn by: TWL		<b>PUMP STATION PUMP CONTROLLER DETAILS</b>	
Checked by: BGP	Reviewed by:	Scale: NONE	Sheet reference number: 51.5/13
Approved by:	Date: MAY 2002	FILENAME: E1.dgn	PEN TABLE:
Drawing Code: 016-PWC-13		Sheet	of



- SEE FUEL STORAGE TANK DETAILS AND PIPING SCHEMATIC ON DRAWING NO. 51.6/7
- LEVEL MONITOR AT TOP OF TANK
- GUARD POST (TYP.) SEE DETAIL ON DRAWING NO. 51.6/8
- INTERSTITIAL MONITOR AT TOP OF TANK
- 150W HPS FLOOD LIGHT ON HINGED POLE. ARROW INDICATES DIRECTION OF POLE LAY-DOWN. (TYP. OF 4). SEE DETAILS ON DRAWING NO. 51.6/4
- GRADE TRANSITION SUMP
- BELOW GRADE PIPING. SEE DETAIL ON DRAWING NO. 51.6/7
- GEN-SET WEATHER ENCLOSURE. (TYP. OF 2) FOR FOUNDATION SEE DRAWING NO. 51.6/8
- PERSONNEL DOOR. PROVIDE STEPS WITH OSHA APPROVED HANDRAIL AS NECESSARY. TYP. OF (3) DOORS EACH GENERATOR

**NOTES**

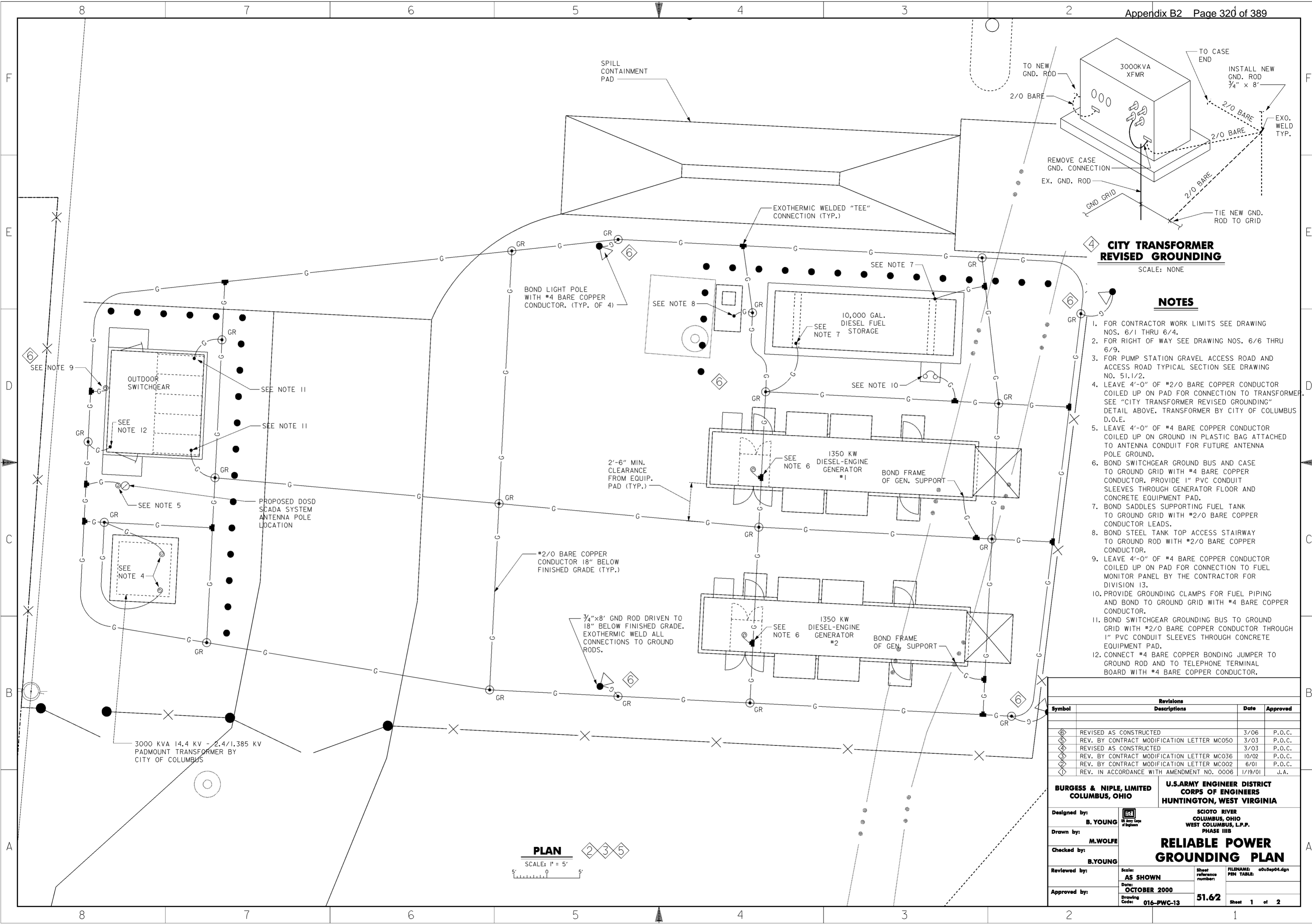
1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
2. FOR RIGHT OF WAY SEE DRAWING NOS. 6/6 THRU 6/9.
3. FOR PUMP STATION GRAVEL ACCESS ROAD AND ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 51.1/2.
4. FOR CONDUIT BANK SECTIONS SEE DRAWING NO. 51.6/5.

Symbol	Revisions Descriptions	Date	Approved
⊠	REVISED AS CONSTRUCTED	3/06	P.O.C.
⊡	REV. BY CONTRACT MODIFICATION LETTER MC050	3/03	P.O.C.
⊢	REV. BY CONTRACT MODIFICATION LETTER MC036	10/02	P.O.C.
⊣	REV. BY CONTRACT MODIFICATION LETTER MC032	7/10/02	J.A.
⊤	REV. BY CONTRACT MODIFICATION LETTER MC002	6/01	P.O.C.
⊥	REV. IN ACCORDANCE WITH AMENDMENT NO. 0006	1/19/01	J.A.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA	
Designed by:	J. AYRES	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by:	T. MULLINS		
Checked by:	J. ANDRICK	<b>RELIABLE POWER</b> <b>ELECTRICAL SITE PLAN</b>	
Reviewed by:	AS SHOWN		
Approved by:	OCTOBER 2000	Sheet reference number:	51.6/1
Drawing Code: 016-PWC-13		FILENAME:	o0Sep03.dgn
		PIN TABLE:	
		Sheet	1 of 1

**PLAN**  
SCALE: 1" = 5'

**WORK AS CONSTRUCTED**



**CITY TRANSFORMER REVISED GROUNDING**  
SCALE: NONE

**NOTES**

1. FOR CONTRACTOR WORK LIMITS SEE DRAWING NOS. 6/1 THRU 6/4.
2. FOR RIGHT OF WAY SEE DRAWING NOS. 6/6 THRU 6/9.
3. FOR PUMP STATION GRAVEL ACCESS ROAD AND ACCESS ROAD TYPICAL SECTION SEE DRAWING NO. 51.1/2.
4. LEAVE 4'-0" OF #2/0 BARE COPPER CONDUCTOR COILED UP ON PAD FOR CONNECTION TO TRANSFORMER. SEE "CITY TRANSFORMER REVISED GROUNDING" DETAIL ABOVE. TRANSFORMER BY CITY OF COLUMBUS D.O.E.
5. LEAVE 4'-0" OF #4 BARE COPPER CONDUCTOR COILED UP ON GROUND IN PLASTIC BAG ATTACHED TO ANTENNA CONDUIT FOR FUTURE ANTENNA POLE GROUND.
6. BOND SWITCHGEAR GROUND BUS AND CASE TO GROUND GRID WITH #4 BARE COPPER CONDUCTOR. PROVIDE 1" PVC CONDUIT SLEEVES THROUGH GENERATOR FLOOR AND CONCRETE EQUIPMENT PAD.
7. BOND SADDLES SUPPORTING FUEL TANK TO GROUND GRID WITH #2/0 BARE COPPER CONDUCTOR LEADS.
8. BOND STEEL TANK TOP ACCESS STAIRWAY TO GROUND ROD WITH #2/0 BARE COPPER CONDUCTOR.
9. LEAVE 4'-0" OF #4 BARE COPPER CONDUCTOR COILED UP ON PAD FOR CONNECTION TO FUEL MONITOR PANEL BY THE CONTRACTOR FOR DIVISION 13.
10. PROVIDE GROUNDING CLAMPS FOR FUEL PIPING AND BOND TO GROUND GRID WITH #4 BARE COPPER CONDUCTOR.
11. BOND SWITCHGEAR GROUNDING BUS TO GROUND GRID WITH #2/0 BARE COPPER CONDUCTOR THROUGH 1" PVC CONDUIT SLEEVES THROUGH CONCRETE EQUIPMENT PAD.
12. CONNECT #4 BARE COPPER BONDING JUMPER TO GROUND ROD AND TO TELEPHONE TERMINAL BOARD WITH #4 BARE COPPER CONDUCTOR.

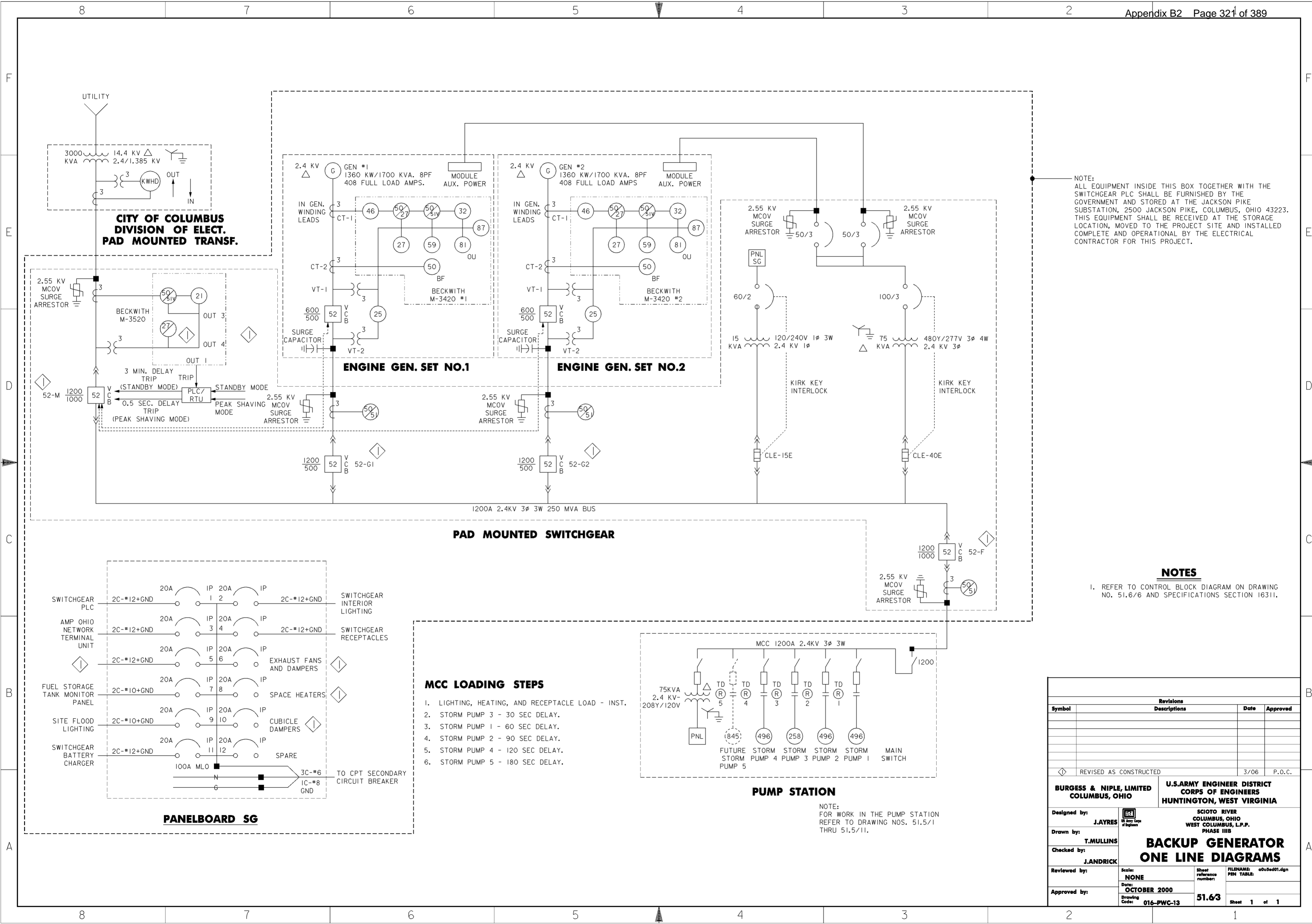
Symbol	Revisions Descriptions	Date	Approved
⊕	REVISED AS CONSTRUCTED	3/06	P.O.C.
⊕	REV. BY CONTRACT MODIFICATION LETTER MC050	3/03	P.O.C.
⊕	REVISED AS CONSTRUCTED	3/03	P.O.C.
⊕	REV. BY CONTRACT MODIFICATION LETTER MC036	10/02	P.O.C.
⊕	REV. BY CONTRACT MODIFICATION LETTER MC002	6/01	P.O.C.
⊕	REV. IN ACCORDANCE WITH AMENDMENT NO. 0006	1/19/01	J.A.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B. YOUNG</b>		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>M. WOLFE</b>		<b>RELIABLE POWER</b> <b>GROUNDING PLAN</b>	
Checked by: <b>B. YOUNG</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>51.62</b>
Reviewed by:		Date: <b>OCTOBER 2000</b>	FILENAME: a0uSep04.dgn
Approved by:		Drawing Code: <b>016-PWC-13</b>	Sheet 1 of 2

**PLAN**  
SCALE: 1" = 5'  
5' 0' 5'

**WORK AS CONSTRUCTED**





NOTE:  
ALL EQUIPMENT INSIDE THIS BOX TOGETHER WITH THE SWITCHGEAR PLC SHALL BE FURNISHED BY THE GOVERNMENT AND STORED AT THE JACKSON PIKE SUBSTATION, 2500 JACKSON PIKE, COLUMBUS, OHIO 43223. THIS EQUIPMENT SHALL BE RECEIVED AT THE STORAGE LOCATION, MOVED TO THE PROJECT SITE AND INSTALLED COMPLETE AND OPERATIONAL BY THE ELECTRICAL CONTRACTOR FOR THIS PROJECT.

**NOTES**

- REFER TO CONTROL BLOCK DIAGRAM ON DRAWING NO. 51.6/6 AND SPECIFICATIONS SECTION 16311.

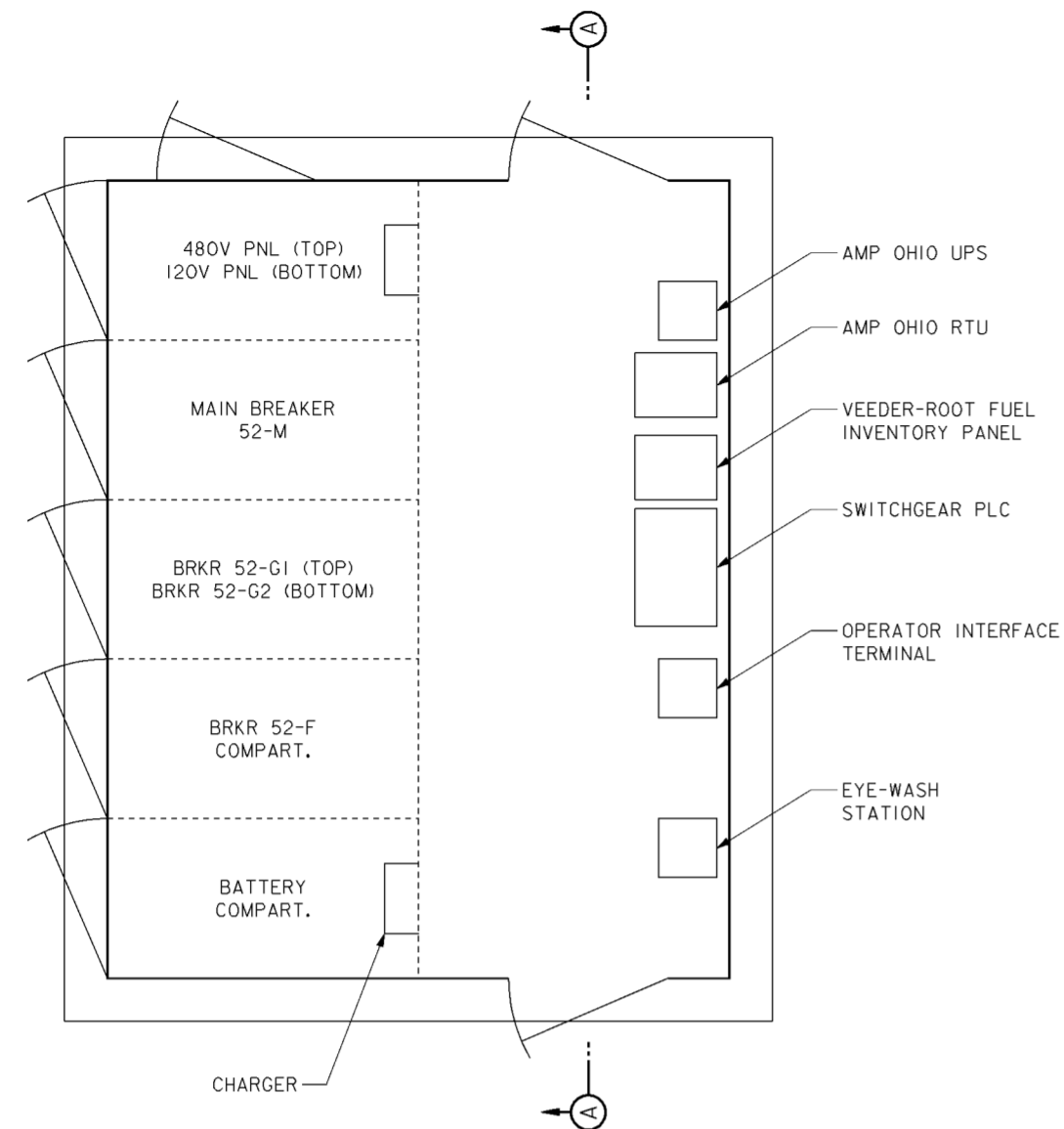
**MCC LOADING STEPS**

- LIGHTING, HEATING, AND RECEPTACLE LOAD - INST.
- STORM PUMP 3 - 30 SEC DELAY.
- STORM PUMP 1 - 60 SEC DELAY.
- STORM PUMP 2 - 90 SEC DELAY.
- STORM PUMP 4 - 120 SEC DELAY.
- STORM PUMP 5 - 180 SEC DELAY.

**PUMP STATION**

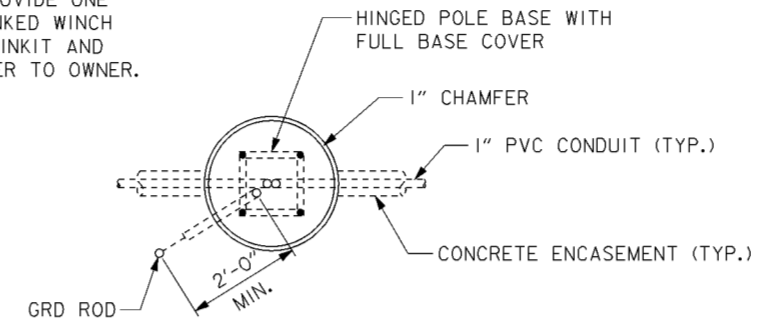
NOTE:  
FOR WORK IN THE PUMP STATION REFER TO DRAWING NOS. 51.5/1 THRU 51.5/11.

Revisions			
Symbol	Descriptions	Date	Approved
REVISAS AS CONSTRUCTED		3/06	P.O.C.
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	J.AYRES	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by:	T.MULLINS	<b>BACKUP GENERATOR</b> <b>ONE LINE DIAGRAMS</b>	
Checked by:	J.ANDRICK	Scale:	NONE
Reviewed by:		Date:	OCTOBER 2000
Approved by:		Drawing Code:	016-PWC-13
		Sheet reference number:	51.6/3
		FILENAME:	a00sed01.dgn
		PIN TABLE:	
		Sheet	1 of 1

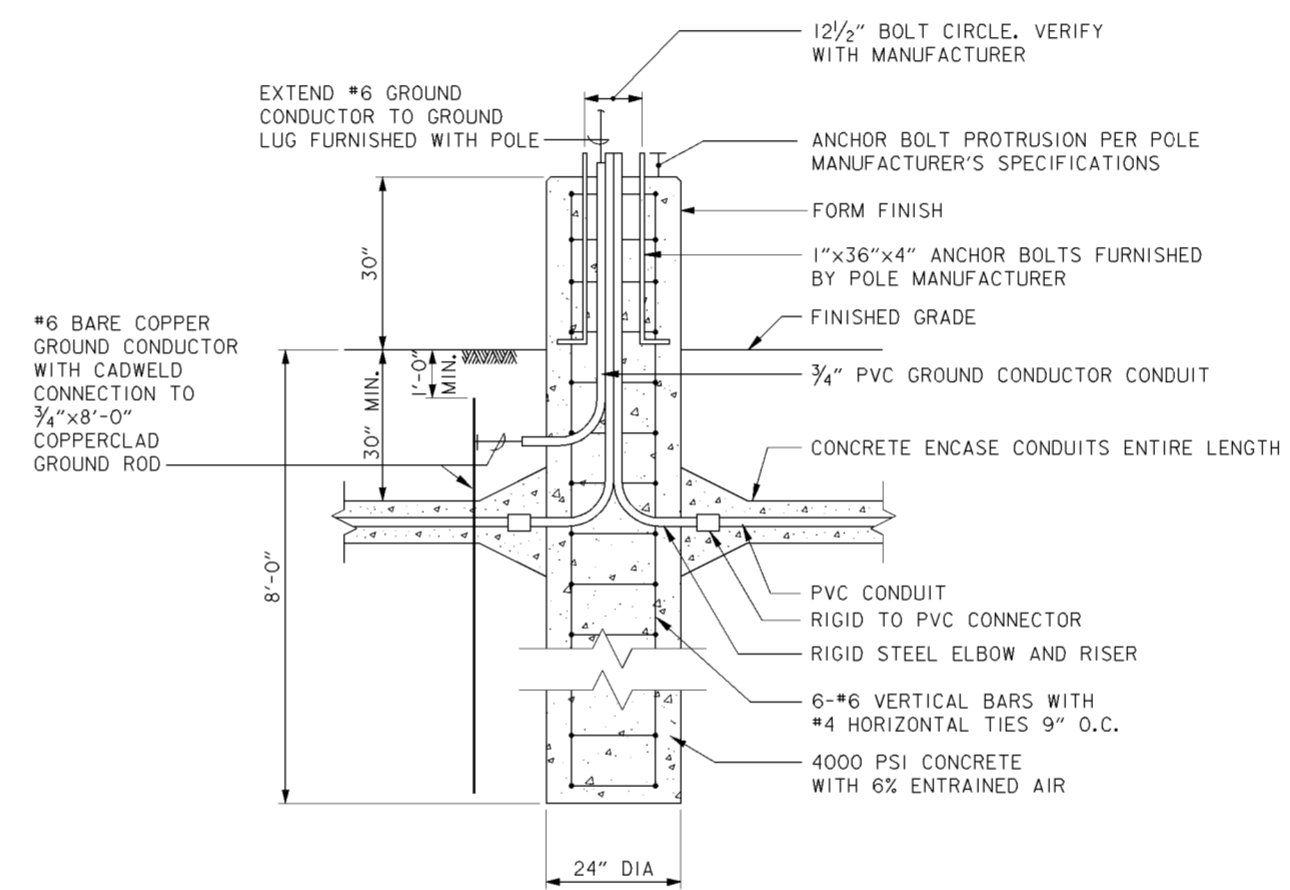


**OUTDOOR SWITCHGEAR PLAN**  
SCALE: NONE

NOTE: PROVIDE ONE HANDCRANKED WINCH WITH CHAINKIT AND TURN OVER TO OWNER.



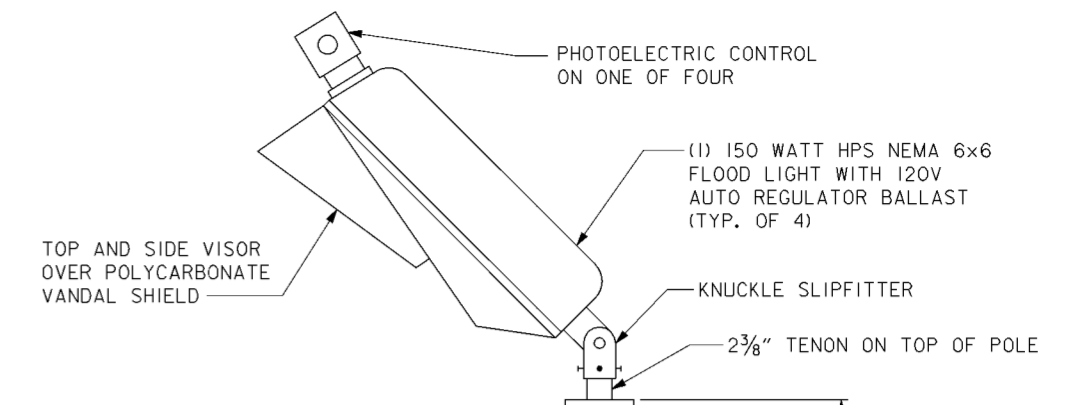
**FOUNDATION PLAN**



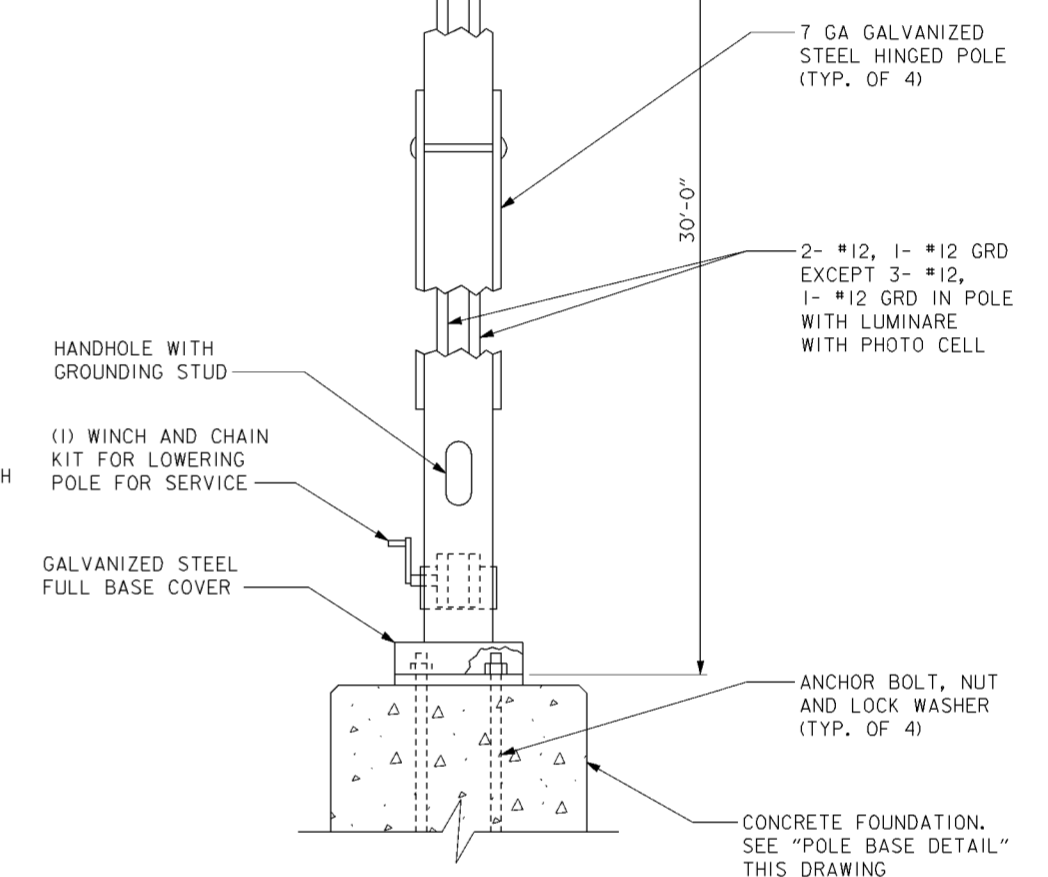
**FOUNDATION ELEVATION**

**POLE BASE DETAIL**

SCALE: NONE

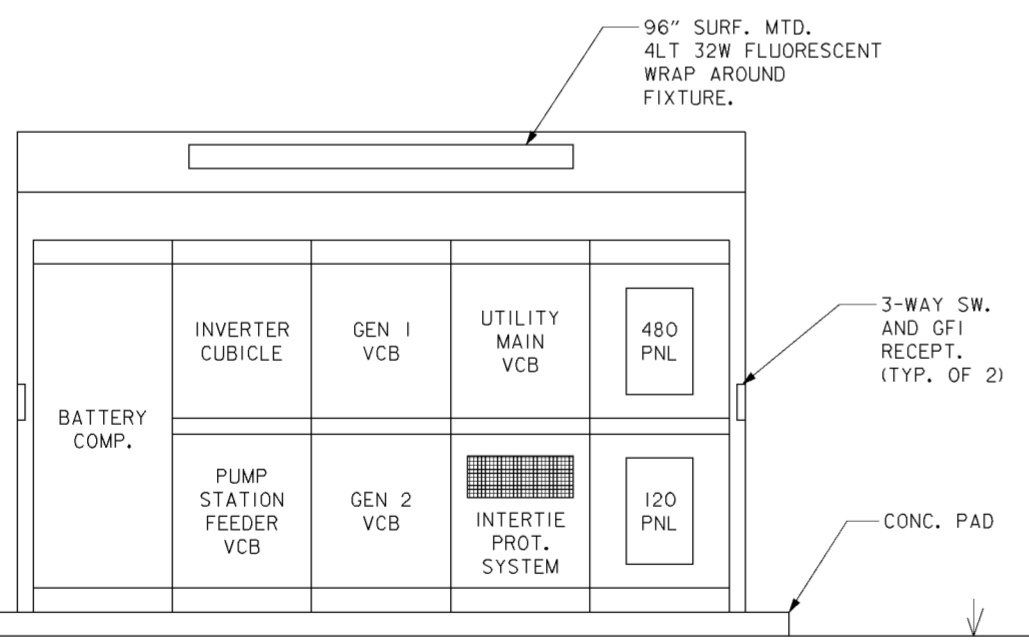


NOTE: MAXIMUM EFFECTIVE PROJ. AREA OF LUMINARE WITH VISOR AND VANDAL SHIELD 8.3 SQ. FT.



**ELEVATION OF SIGHT LIGHTING POLE**

SCALE: NONE



**SECTION A-A**

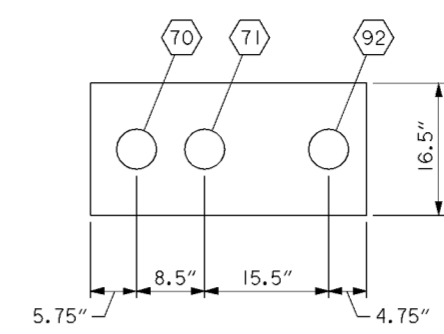
SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/06	P.O.C.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0006	1/19/01	J.A.

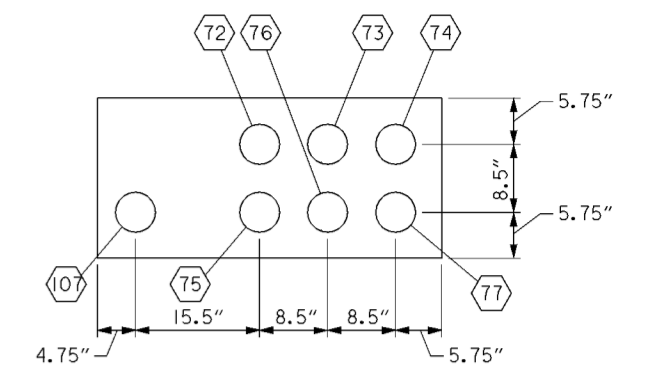
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>J.AYRES</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B  <b>SWITCHGEAR MISC.</b> <b>ELECTRICAL DETAILS</b>	
Drawn by: <b>T.MULLINS</b>		
Checked by: <b>J.ANDRICK</b>		
Reviewed by:		
Approved by:	Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>51.6/4</b> FILENAME: <b>o05ed03.dgn</b> PEN TABLE: Sheet <b>1</b> of <b>1</b>

**CONDUIT SCHEDULE**

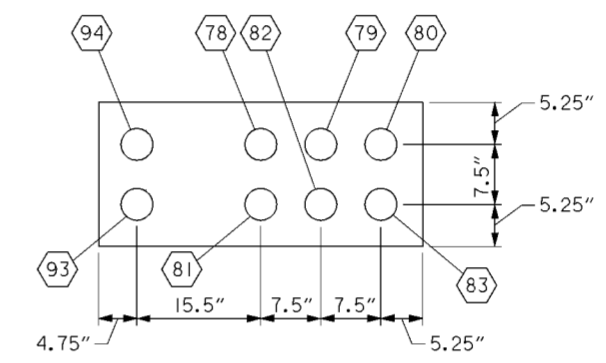
CONDUIT NO.	FROM	TO	CONDUIT SPEC	CABLES PER CONDUIT	COMMENTS
70	PADMOUNT TRANSFORMER	5' BEYOND FENCE	5" PVC	PROVIDED BY CITY OF COLUMBUS	PRIMARY FEEDER
71	PADMOUNT TRANSFORMER	5' BEYOND FENCE	5" PVC		SPARE CONDUIT
72	PADMOUNT TRANSFORMER	UTILITY MAIN CB	4" PVC	NONE	SPARE CONDUIT
73	PADMOUNT TRANSFORMER	UTILITY MAIN CB	4" PVC	NONE	SPARE CONDUIT
74	PADMOUNT TRANSFORMER	UTILITY MAIN CB	4" PVC	NONE	SPARE CONDUIT
75	PADMOUNT TRANSFORMER	UTILITY MAIN CB	4" PVC	3-500KCMIL 5KV+1-#2 5KV NEUTRAL	2.4Y/1.385KV SERVICE ENTRANCE
76	PADMOUNT TRANSFORMER	UTILITY MAIN CB	4" PVC	3-500KCMIL 5KV+1-#2 5KV NEUTRAL	
77	PADMOUNT TRANSFORMER	UTILITY MAIN CB	4" PVC	3-500KCMIL 5KV+1-#2 5KV NEUTRAL	
78	PLANT FEEDER CB	PUMP STATION P.B.	4" PVC	NONE	SPARE CONDUIT
79	PLANT FEEDER CB	PUMP STATION P.B.	4" PVC	NONE	SPARE CONDUIT
80	PLANT FEEDER CB	PUMP STATION P.B.	4" PVC	NONE	SPARE CONDUIT
81	PLANT FEEDER CB	PUMP STATION P.B.	4" PVC	3-500KCMIL 5KV+2/0 GND	2.4KV PUMP STATION FEEDER
82	PLANT FEEDER CB	PUMP STATION P.B.	4" PVC	3-500KCMIL 5KV+2/0 GND	
83	PLANT FEEDER CB	PUMP STATION P.B.	4" PVC	3-500KCMIL 5KV+2/0 GND	
84	OUTDOOR SWITCHGEAR	GEN #2 OUTPUT VCB	4" PVC	NONE	SPARE CONDUIT
85	OUTDOOR SWITCHGEAR	GEN #2 OUTPUT VCB	4" PVC	NONE	SPARE CONDUIT
86	OUTDOOR SWITCHGEAR	GEN #2 OUTPUT VCB	4" PVC	3-350KCMIL 5KV+#2 GND	2.4KV FEEDER FROM GEN #2 TO OUTDOOR SWITCHGEAR CB
87	OUTDOOR SWITCHGEAR	GEN #2 OUTPUT VCB	4" PVC	3-350KCMIL 5KV+#2 GND	
88	OUTDOOR SWITCHGEAR	GEN #1 OUTPUT VCB	4" PVC	NONE	SPARE CONDUIT
89	OUTDOOR SWITCHGEAR	GEN #1 OUTPUT VCB	4" PVC	NONE	SPARE CONDUIT
90	OUTDOOR SWITCHGEAR	GEN #1 OUTPUT VCB	4" PVC	3-350KCMIL 5KV+#2 GND	2.4KV FEEDER FROM GEN #1 TO OUTDOOR SWITCHGEAR CB
91	OUTDOOR SWITCHGEAR	GEN #1 OUTPUT VCB	4" PVC	3-350KCMIL 5KV+#2 GND	
92	5' BEYOND FENCE	TEL. TERM. BD	2" PVC	BY OTHERS	TELEPHONE SERVICE CONDUIT
93	PUMP STA. MCC	DOSD RTU	2" PVC	BY OTHERS	TELEMETRY CABLES FOR DOSD SCADA
94	PUMP STA. PUMP CONTROL PLC	SWITCHGEAR PLC	1" PVC	16-#14	DI & DO BETWEEN PLC'S
95	FUEL TANK MONITOR PANEL	SWITCHGEAR PLC	1" PVC	4-#14	DI 24 HR. FUEL REMAINING
96	FUEL TANK MONITOR PANEL	AMP OHIO NTU	1" PVC	2- PR #18 TWISTED SHIELDED	FUEL REMAINING IN STORAGE TANK
97	FUEL TANK MONITOR PANEL	PANELBOARD SG	1" PVC	2-#10, 1-#10 GND	120V POWER TO MONITOR PNL.
98	AMP OHIO NTU	GENERATOR #2	2" PVC	2- PR #18 TWISTED SHIELDED	RS485 TO CCM & GPP
99	AMP OHIO NTU	GENERATOR #1	2" PVC	2- PR #18 TWISTED SHIELDED	RS485 TO CCM & GPP
100	SWITCHGEAR PLC	GENERATOR #2	2" PVC	20-#14	DI & DO TO CCM & GPP
101	SWITCHGEAR PLC	GENERATOR #1	2" PVC	20-#14	DI & DO TO CCM & GPP
102	PANELBOARD SG	N.E. FLOODLIGHT	1" PVC	2-#10, 1-#10 GND	SITE LIGHTING CIRCUIT
103	N.E. FLOODLIGHT	S.E. FLOODLIGHT	1" PVC	2-#10, 1-#10 GND	SITE LIGHTING CIRCUIT
104	S.E. FLOODLIGHT	S.W. FLOODLIGHT	1" PVC	2-#10, 1-#10 GND	SITE LIGHTING CIRCUIT
105	S.W. FLOODLIGHT	N.W. FLOODLIGHT	1" PVC	2-#10, 1-#10 GND	SITE LIGHTING CIRCUIT
106	DOSD RTU	ANT. POLE LOC.	2" PVC	BY OTHERS	ANT. CABLE FOR DOSD SCADA
107	PADMOUNT TRANSFORMER	AMP OHIO NTU	2" PVC	6-#14, 2- PR #18 TWISTED SH'LD'D	KYZ, KVARH, KWH PULSES & O-IMA ANALOG KW, KVAR
108	PADMOUNT TRANSFORMER PAD	GROUND ROD	1" PVC	#2/0 BARE COPPER CABLE	TRANSFORMER GROUND
109	OUTDOOR SWITCHGEAR	GEN. #1 AUX. POWER	2" PVC	4-#4, 1-#8 GND	480Y/277V AUXILIARY POWER
110	OUTDOOR SWITCHGEAR	GEN. #2 AUX. POWER	2" PVC	4-#4, 1-#8 GND	480Y/277V AUXILIARY POWER
111	FUEL TANK MONITOR PNL	INTERSTITIAL MONITOR	1" PVC	2- PR #18 TWISTED SHIELDED	FUEL STORAGE TANK LEAK DETECTION PROBE
112	FUEL TANK MONITOR PNL	LEVEL MONITOR	1" PVC	2- PR #18 TWISTED SHIELDED	FUEL LEVEL PROBE
113	GEN. #1 CONTROL PANEL	GEN. #2 CONTROL PNL	1" PVC	4-#14	CROSS CURRENT CONTROL
114	GEN. #1 CONTROL PANEL	GEN. #2 CONTROL PNL	1" PVC	2- PR #18 TWISTED SHIELDED	LOADSHARING CONTROL



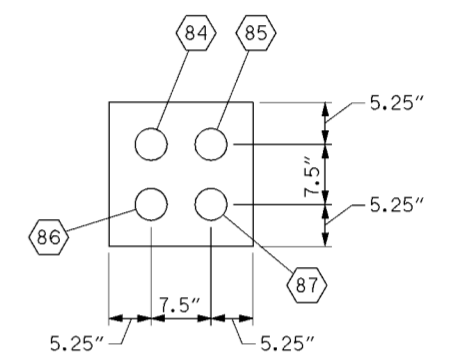
**SECTION A**



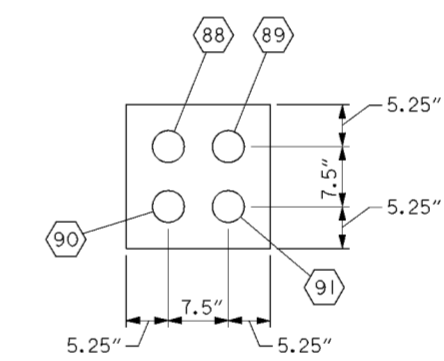
**SECTION B**



**SECTION C**



**SECTION D**

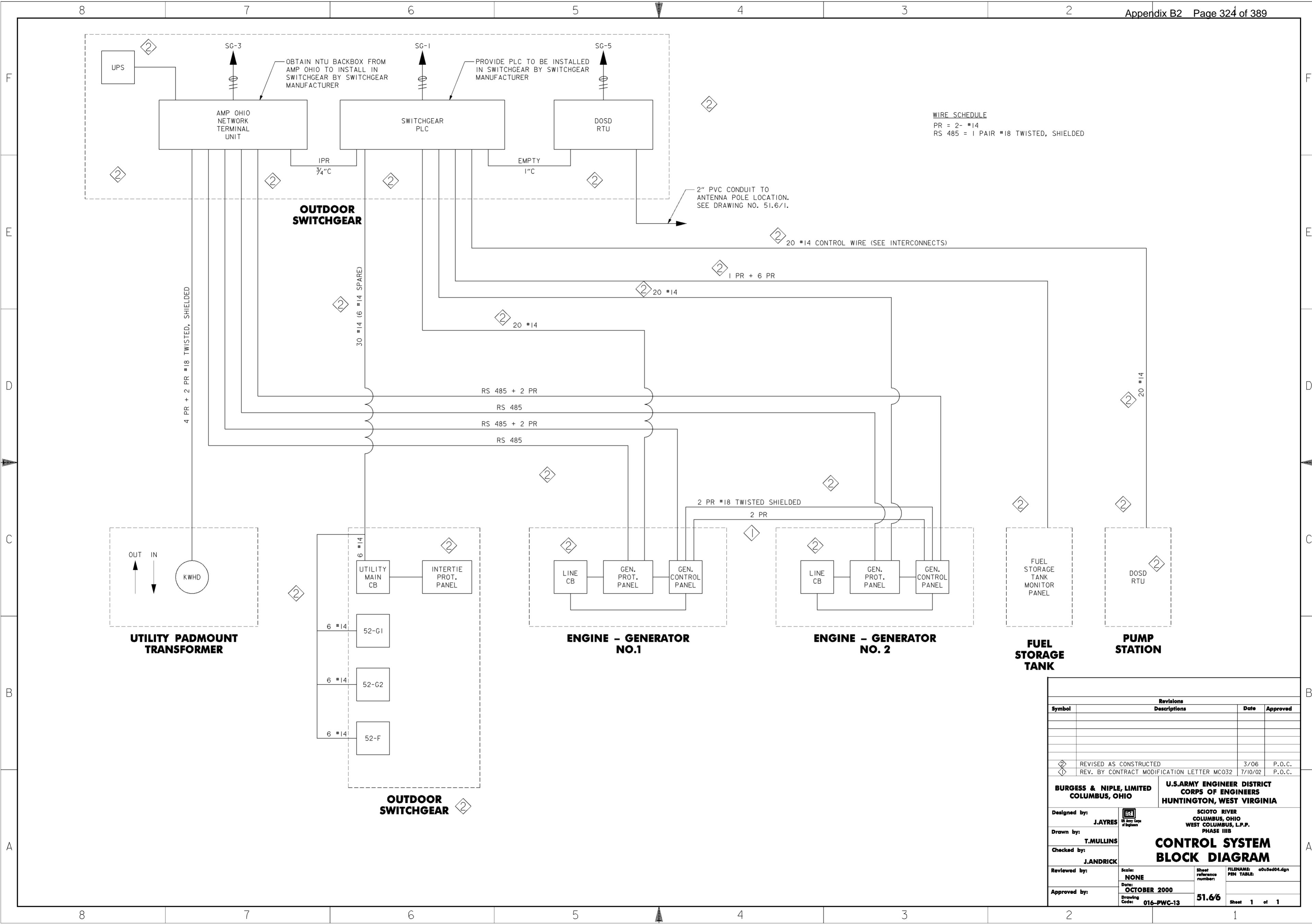


**SECTION E**

1  
2  
2

Revisions			
Symbol	Descriptions	Date	Approved
◇	REV. BY CONTRACT MODIFICATION LETTER MC032	7/10/02	J.A.
◇	REV. IN ACCORDANCE WITH AMENDMENT NO. 0006	1/19/01	J.A.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>J.AYRES</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>A.PUMMELL</b>	<b>RELIABLE POWER</b> <b>CONDUIT SCHEDULE</b>
Checked by: <b>J.ANDRICK</b>	Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Reviewed by:	Sheet reference number: <b>51.65</b> FILENAME: <b>bbu9ma01.dgn</b> PIN TABLE:
Approved by:	Sheet <b>1</b> of <b>1</b>



Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/06	P.O.C.
◇	REV. BY CONTRACT MODIFICATION LETTER MCO32	7/10/02	P.O.C.

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Designed by: <b>J.AYRES</b>	<h3>CONTROL SYSTEM BLOCK DIAGRAM</h3>	
Drawn by: <b>T.MULLINS</b>		
Checked by: <b>J.ANDRICK</b>		
Reviewed by: Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b> Approved by:		
Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>51.6/6</b>	FILENAME: a00sed04.dgn PEN TABLE: Sheet <b>1</b> of <b>1</b>

VALVE SPECIFICATION SUMMARY

TAG#	QTY.	SIZE	RATING	TYPE	MATERIAL	ENDS	SERVICE
V1	1*	1 1/2"	800#	GATE	CARBON STL.	SOCKET WELD	FUEL OIL SUPPLY
V2	1*	1 1/2"	800#	GATE	CARBON STL.	SOCKET WELD	FUEL OIL SUPPLY
V3	1*	3/4"	800#	GATE	CARBON STL.	SOCKET WELD	DRAIN/PRIME
V4	1*	3/4"	800#	GATE	CARBON STL.	SOCKET WELD	DRAIN/PRIME
V5	1*	3"	-	CHECK VALVE	IRON	THREADED	FUEL OIL FILL
V6	1*	3"	-	BALL VALVE	IRON	THREADED	FUEL OIL FILL

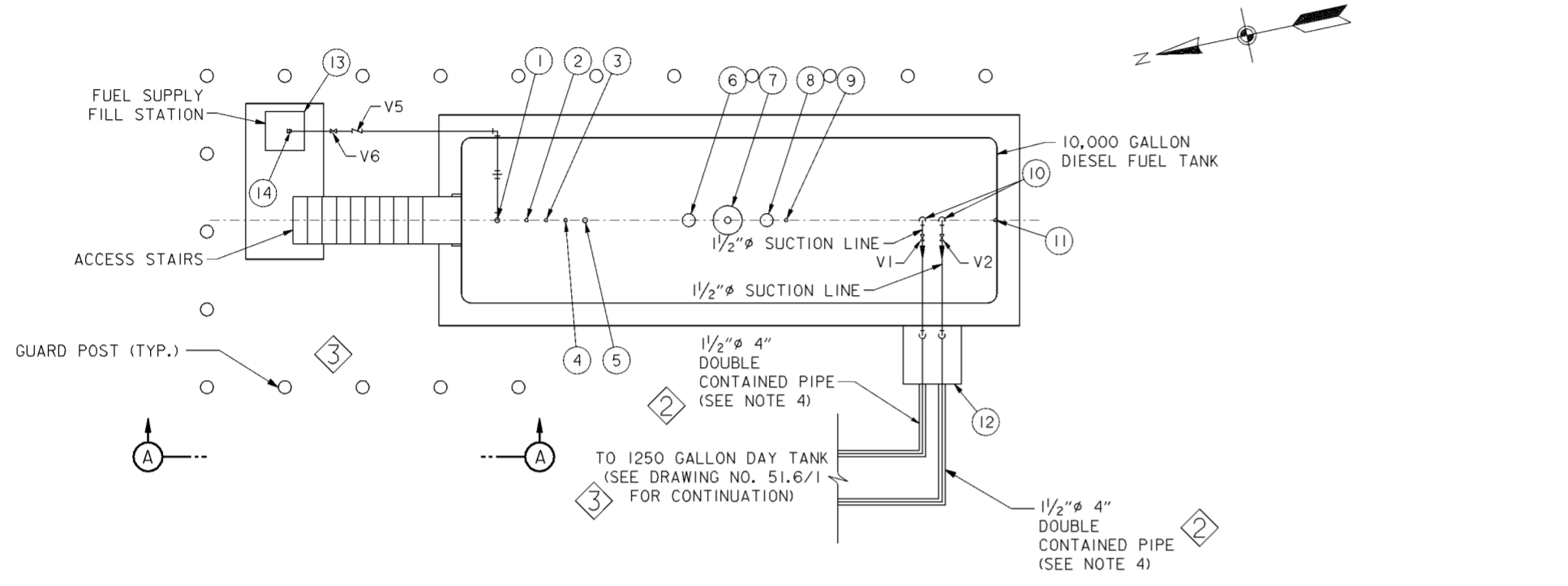
\* QTY. IS PER TANK ONLY.

TANK CONNECTION SUMMARY

TAG#	SIZE	QTY.	DESCRIPTION	CONNECTIONS
1	4"	1	FUEL FILL & 3" OVERFILL VALVE/DROP TUBE	NPT
2	2"	1	LEVEL GAUGE WITH LOCAL ALARM	NPT
3	2"	1	HI/LO LEVEL SWITCH	NPT
4	2"	1	LEVEL TRANSMITTER	NPT
5	3"	1	PRIMARY TANK ATMOS. VENT	NPT
6	8"	1	PRIMARY TANK EMERGENCY VENT	NPT
7	18"	1	MANWAY	NPT
8	8"	1	INTERSTITIAL SPACE EMERGENCY VENT	NPT
9	2"	1	INTERSTITIAL SPACE ATMOS. VENT	NPT
10	4"	2	FUEL SUCTION WITH ANTI-SIPHON VALVE	NPT
11	2"	1	LEAK MONITOR AND TUBE (CAPPED)	NPT
12	3'X3'X3'	3	BELOW GRADE POLYETHYLENE TRANSITION SUMP	NPT
13	-	1	GROUND LEVEL SPILL CONTAINMENT	-
14	3"	1	QUICK CONNECT WITH DUST CAP	NPT

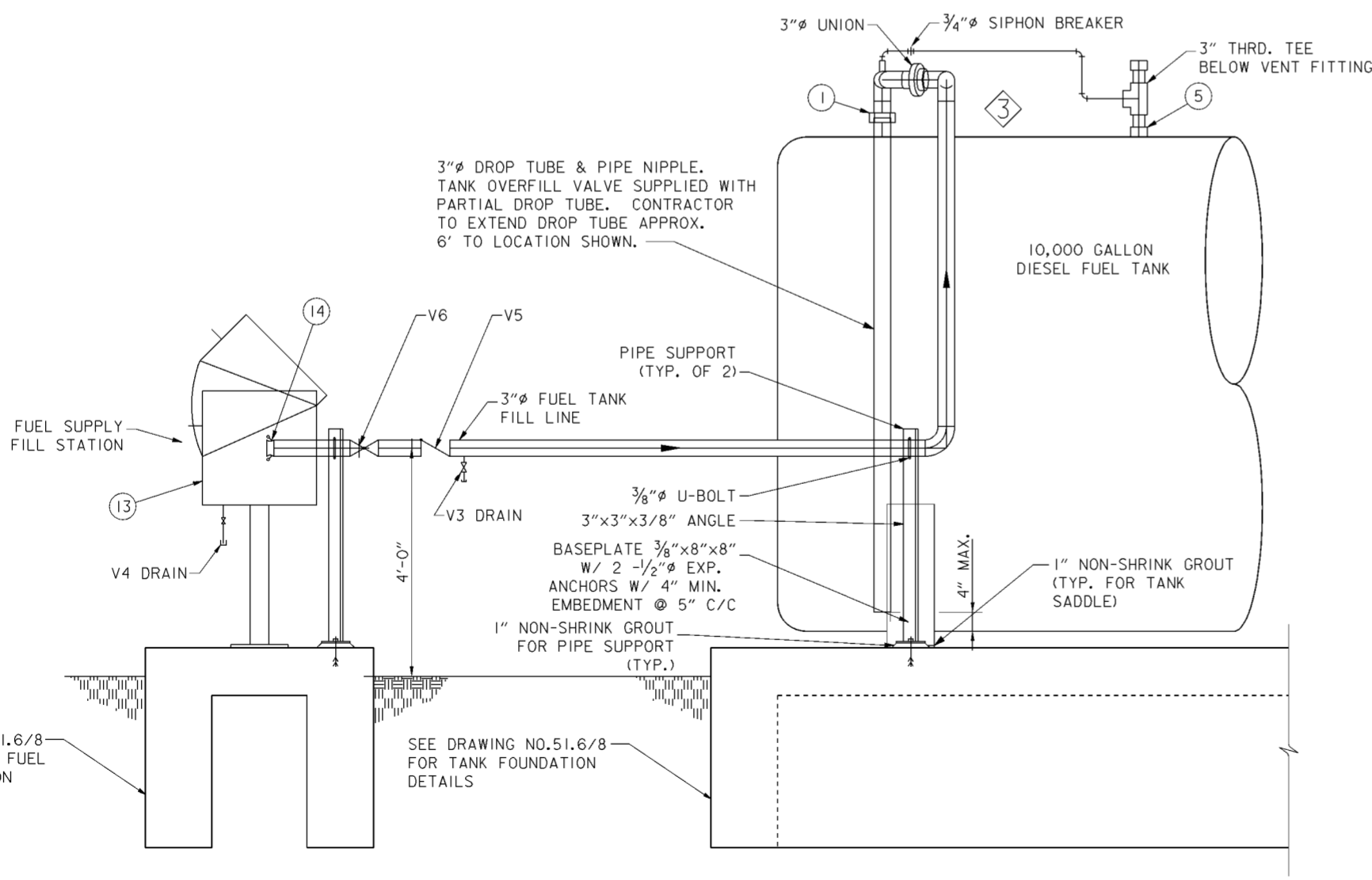
NOTES

- SEE SPECIFICATION I6263 FOR GENERATOR SPECIFICATIONS.
- SEE SPECIFICATION I3202 FOR FUEL STORAGE SYSTEM SPECIFICATIONS.
- NOT ALL ACCESSORIES, FITTINGS, VALVES, ETC. ARE SHOWN. USE SPECIFICATIONS IN ADDITION TO DRAWING.
- PIPING FROM TRANSITION SUMP AT GENERATORS TO DAY TANK INSIDE GENERATOR SHALL BE CHANGED TO DOUBLE CONTAINED PIPE.



TANK PLAN VIEW

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

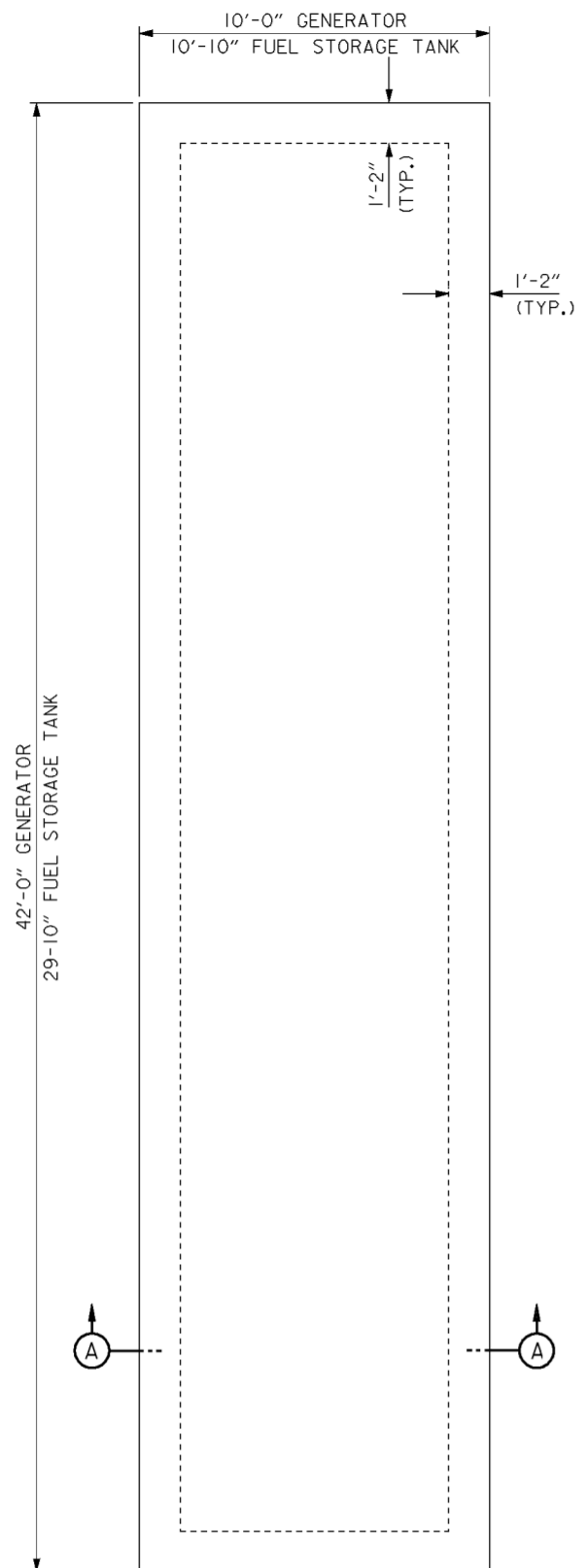


SECTION A-A

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

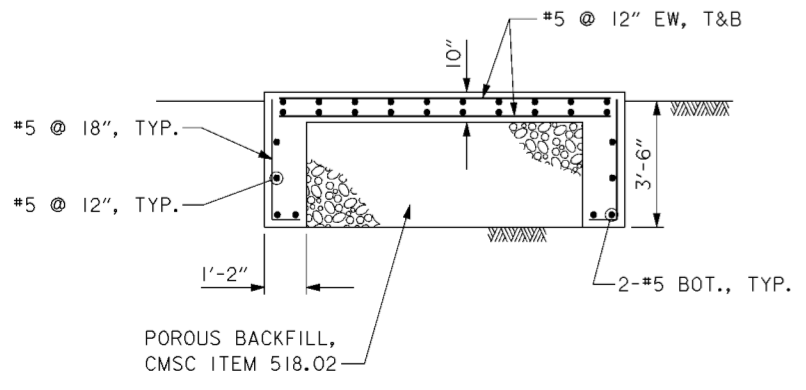
Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/06	P.O.C.
◊	REV. BY CONTRACT MODIFICATION LETTER MC050	5/03	P.O.C.
◊	REV. IN ACCORDANCE WITH AMENDMENT NO. 0003	12/22/00	P.O.C.

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>D. MOORE</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>A. PUMMELL</b>	<b>FUEL STORAGE TANK &amp; PIPING DETAILS</b>
Checked by: <b>P. CONROY</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
	Sheet reference number: <b>51.6/7</b>
	FILENAME: <b>o0rps01.dgn</b>
	Sheet <b>1</b> of <b>1</b>



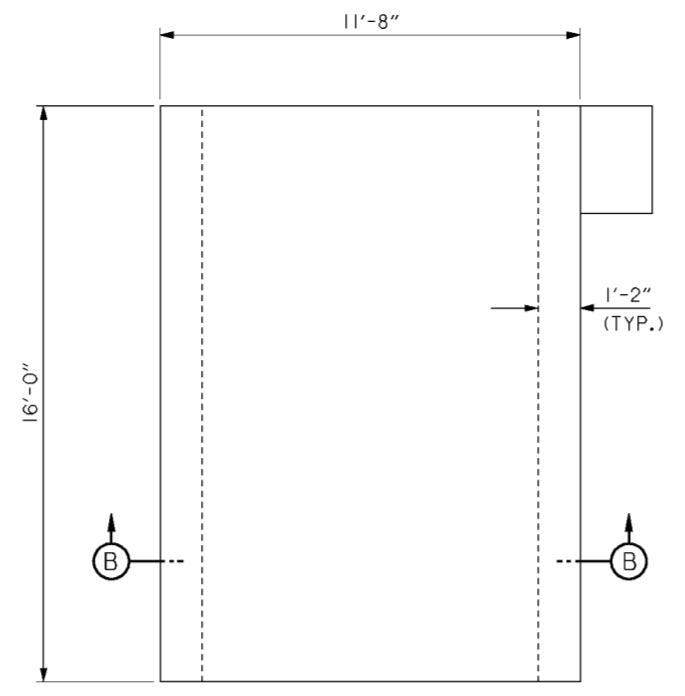
**GENERATOR/FUEL STORAGE TANK FOUNDATION PLAN**

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



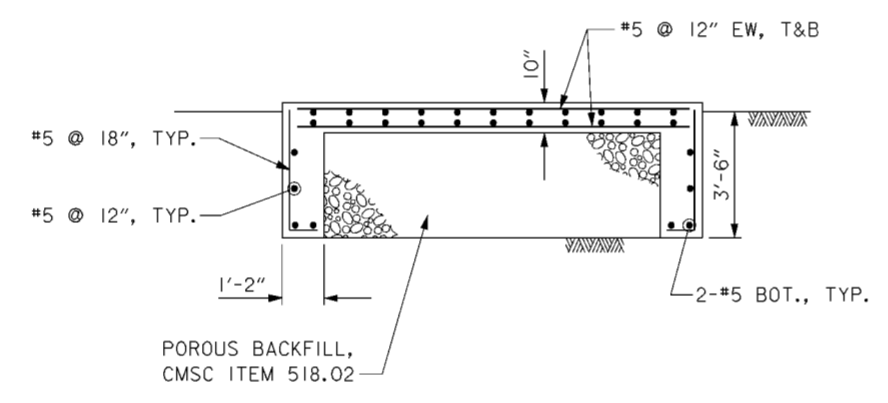
**SECTION A-A**

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



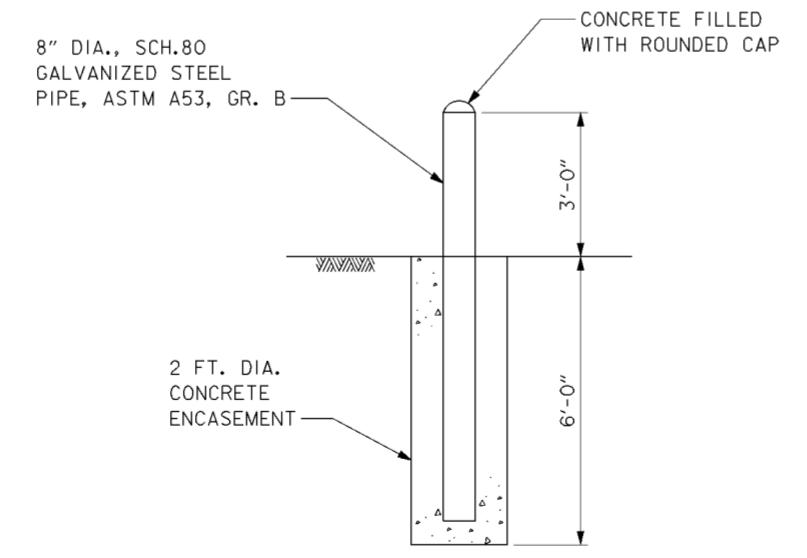
**SWITCHGEAR FOUNDATION PLAN**

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



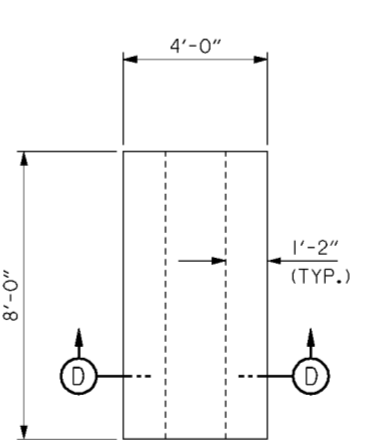
**SECTION B-B**

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



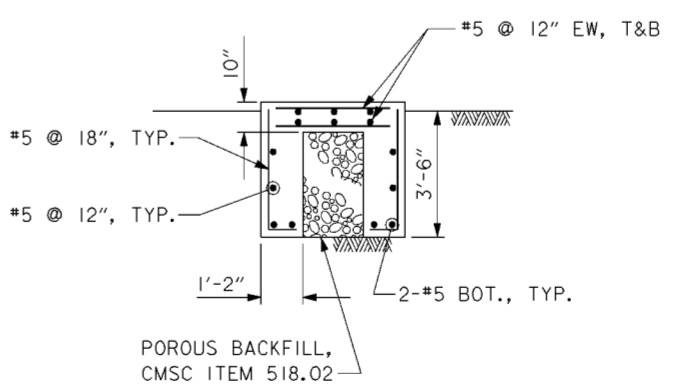
**GUARD POST DETAIL**

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



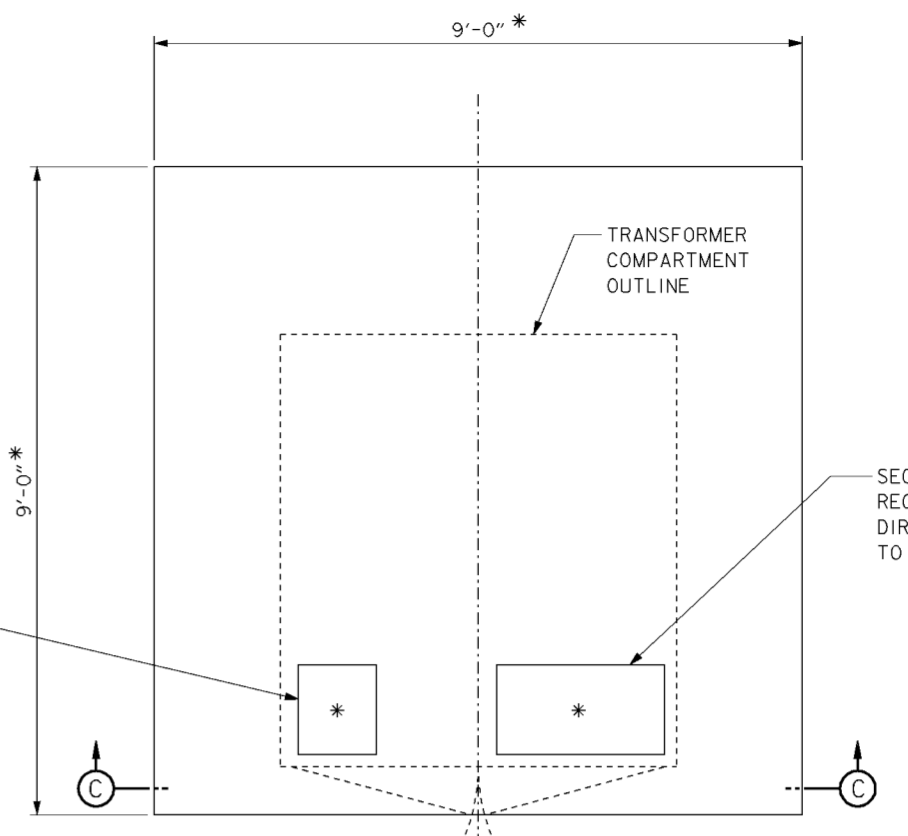
**FILL STATION FUEL SUPPLY FOUNDATION PLAN**

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



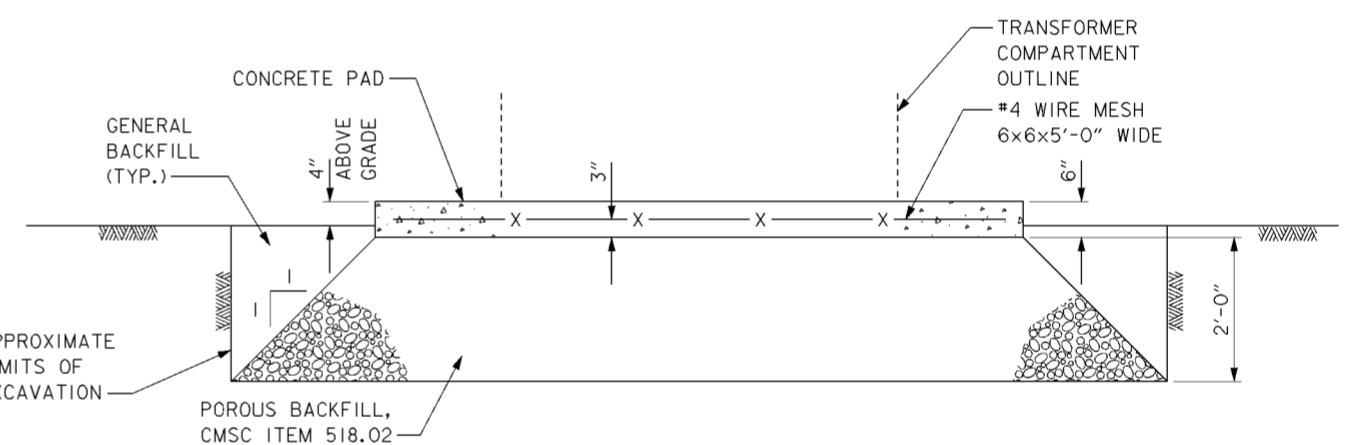
**SECTION D-D**

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



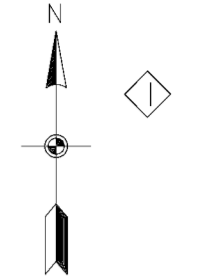
**TRANSFORMER PAD PLAN**

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



**SECTION C-C**

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



SECONDARY DUCT AS REQUIRED. MAY GO ANY DIRECTION AS REQUIRED TO SWITCHGEAR

PRIMARY DUCT AS REQUIRED. MAY GO ANY DIRECTION AS REQUIRED TO TERMINAL POLE

\* CONTRACTOR SHALL VERIFY DIMENSIONS AND OPENING LOCATIONS WITH TRANSFORMER SUPPLIER.

**NOTE**

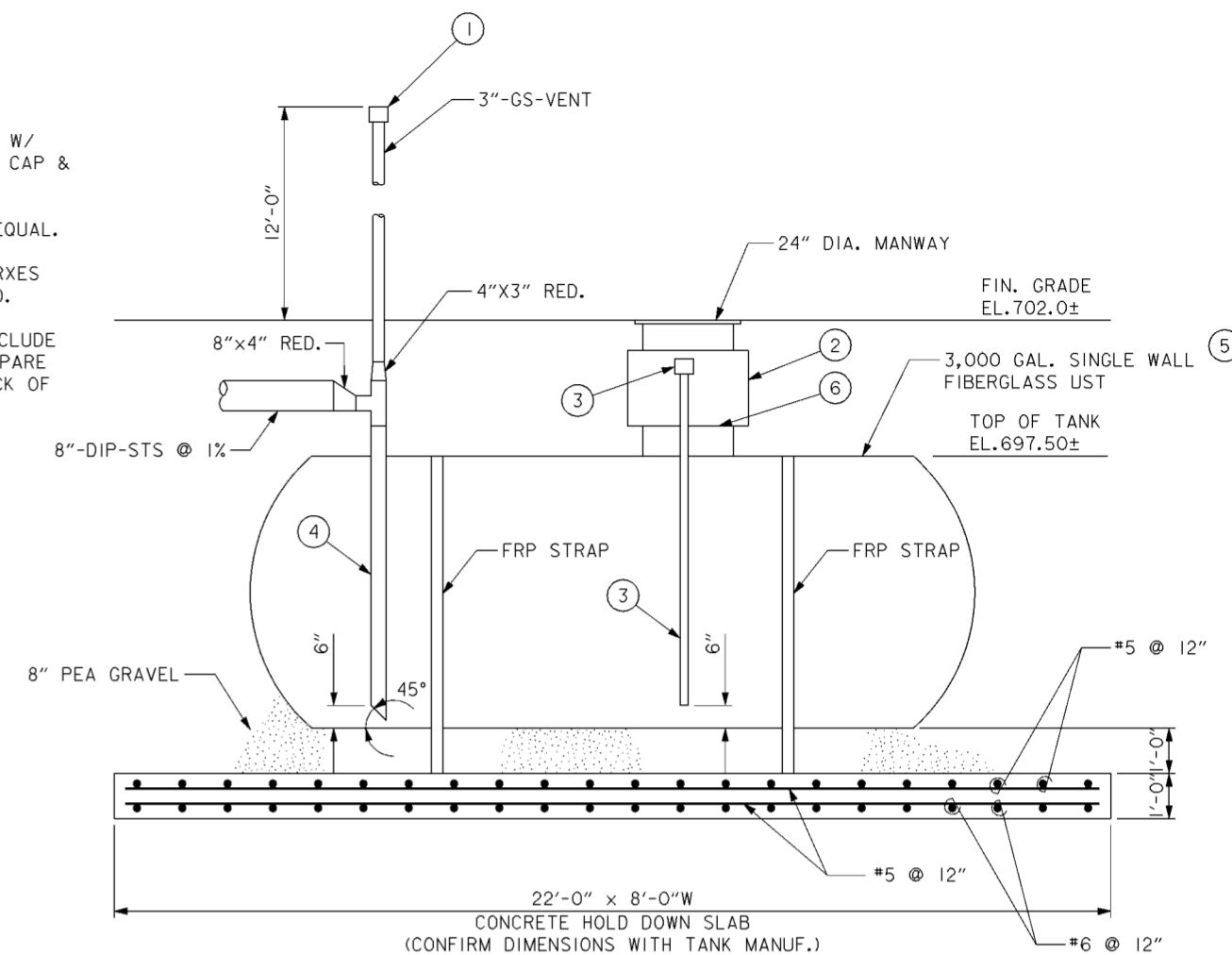
1. CONCRETE FOUNDATION DIMENSIONS AND OPENING LOCATIONS FOR ALL EQUIPMENT SHALL BE VERIFIED WITH SHOP DRAWINGS PRIOR TO PLACEMENT OF CONCRETE.

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/06	P.O.C.
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	J. HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by:	T. MULLINS	<b>RELIABLE POWER</b> <b>FOUNDATION PLANS</b>	
Checked by:	C. GALANT	Scale:	AS SHOWN
Reviewed by:		Date:	OCTOBER 2000
Approved by:		Drawing Code:	016-PWC-13
Sheet reference number:	51.6/8	FILENAME:	c0rpp101.dgn
		Sheet 1 of 1	

**WORK AS CONSTRUCTED**

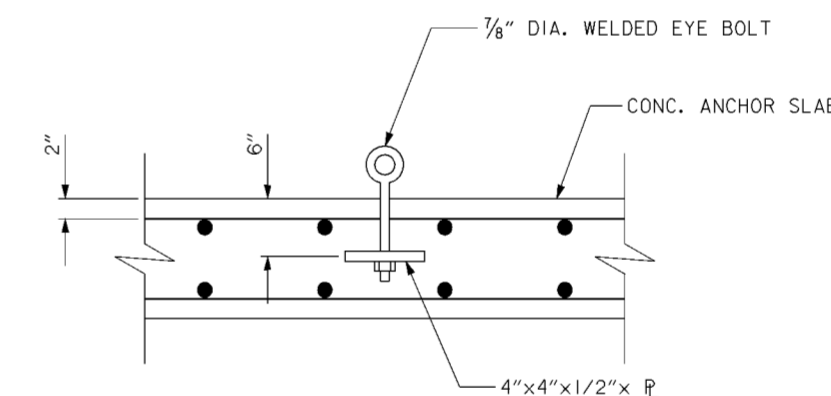
**TANK NOTES**

- ① VENT CAP - OPW 23-0033 OR EQUAL.
- ② 24"x24" MANHOLE BOX, W/ COVER
- ③ 2" ALUMINUM DROP PIPE FOR OIL REMOVAL W/ FILL CAP AND ADAPTOR (OPW 634-TT-7085 CAP & OPW 633-T-8076 ADAPTOR, OR EQUAL)
- ④ ALUMINUM FILL TUBE, OPW 61T-7266, OR EQUAL.
- ⑤ 3,000 GALLON FRP, SINGLE WALL UST, XERXES MODEL T-5, OR EQUAL (SEE NOTE 4 BELOW).
- ⑥ 22" DIA. MANWAY W/ COVER. COVER TO INCLUDE 2" OPENING FOR OIL REMOVAL TUBE AND SPARE 2" DIA. FITTING & PLUG FOR MANUAL CHECK OF LIQUID DEPTH.



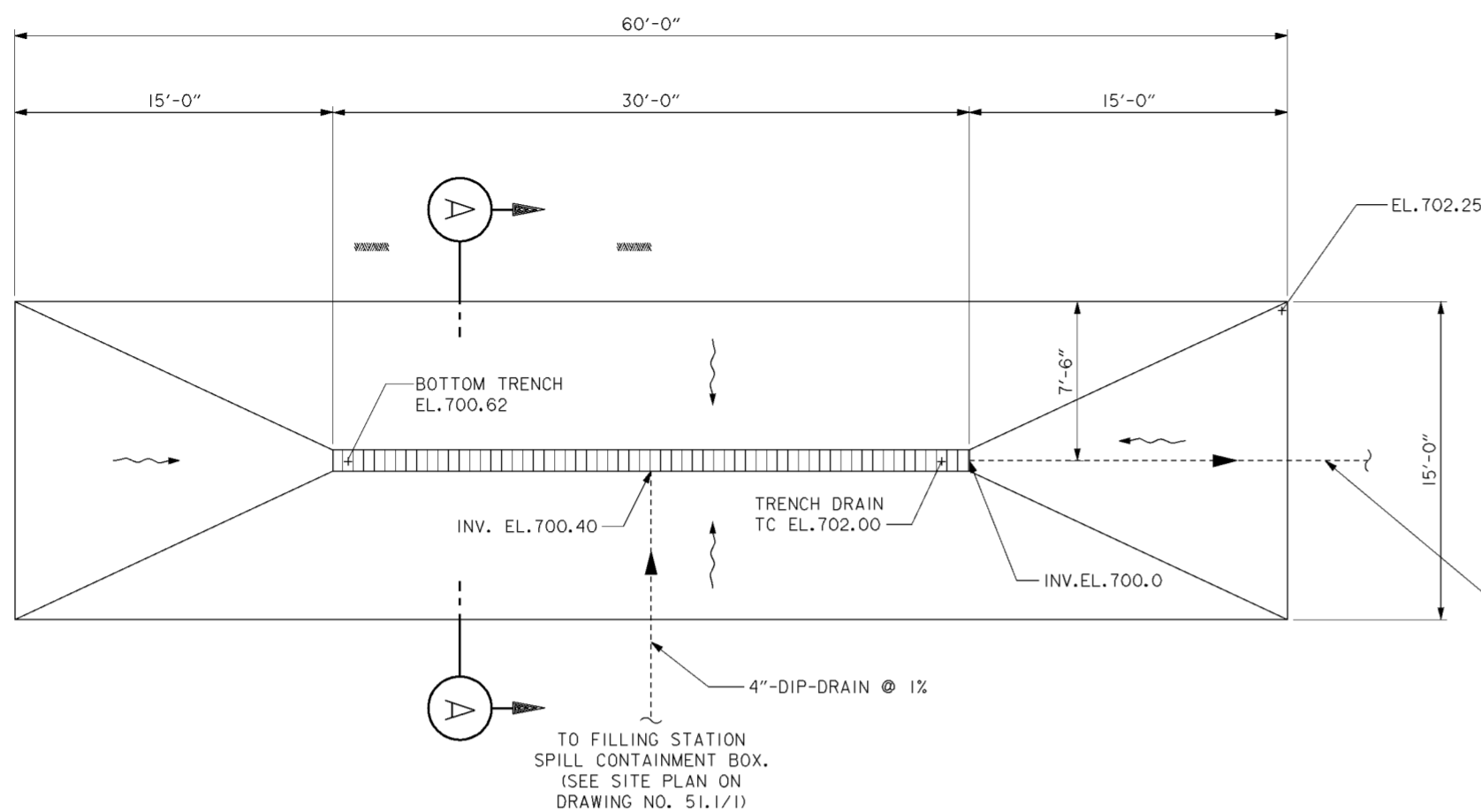
**3,000 SPILL CONTAINMENT TANK**

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



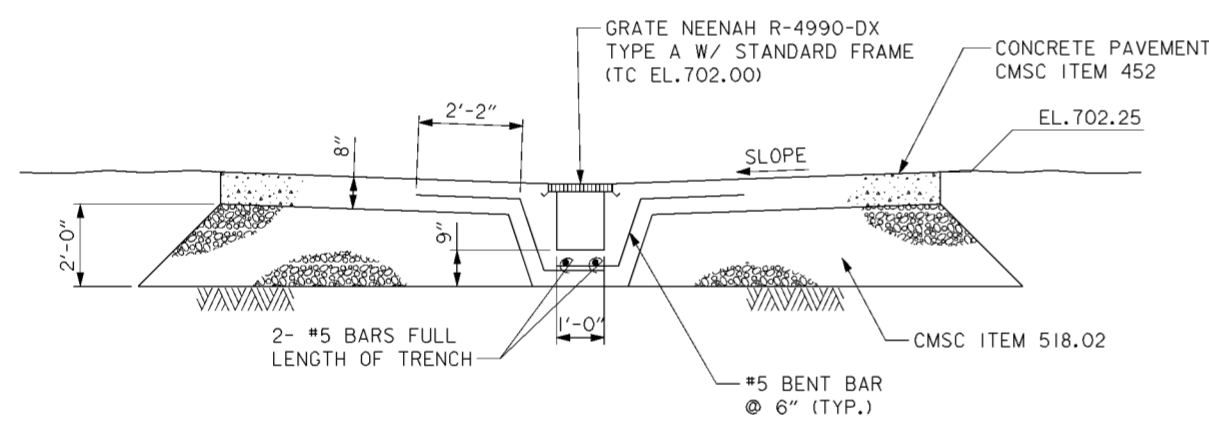
**TYPICAL ANCHOR BOLT DETAIL**

SCALE: NONE



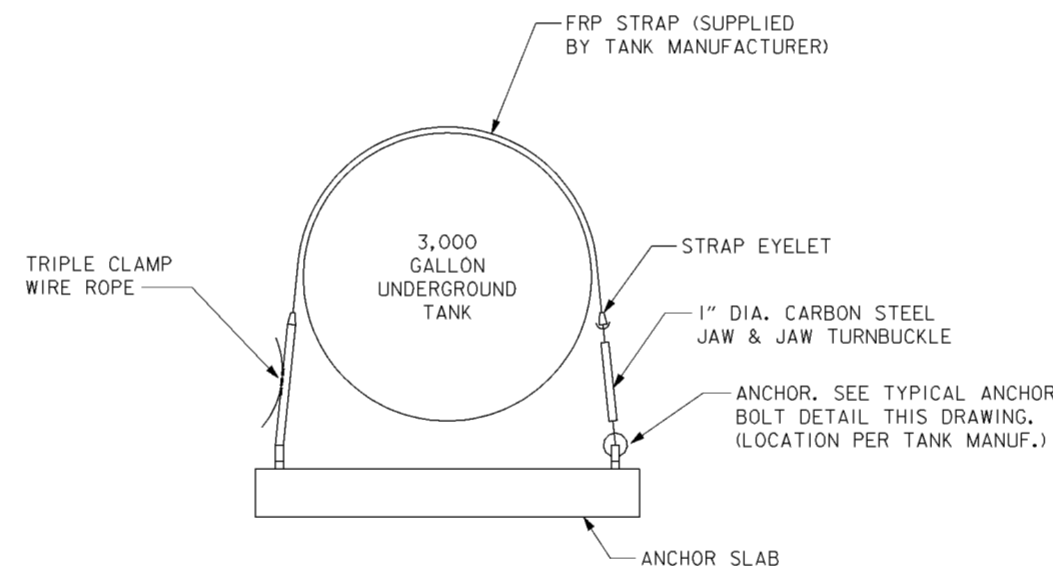
**SPILL CONTAINMENT PAD PLAN**

SCALE: 1/4" = 1'-0"  
 0 1 2 3 4 5



**SECTION A-A**

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

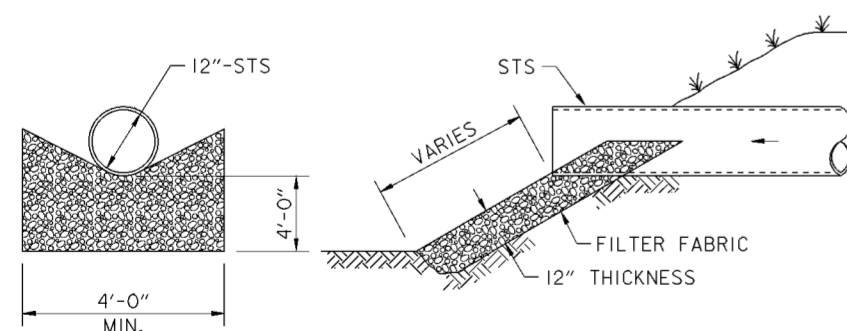


**TYPICAL ANCHORING DETAIL**

SCALE: NONE

**NOTES**

- 1. STORM SEWERS
  - A. DUCTILE IRON PIPE (DIP) CONFORM TO CMSC ITEMS 801.03 AND 901.
  - B. POLYVINYL CHLORIDE (PVC) CONFORM TO CMSC ITEMS 720.06 AND 901.
- 2. MANHOLES MANHOLES SHALL BE PROVIDED AS SHOWN IN ACCORDANCE WITH CMSC ITEM 604.
- 3. VALVES. THE TWO ISOLATION VALVES SHALL BE CONSTRUCTED OF IRON BODY, BRONZE MOUNTED, ECCENTRIC, PLUG TYPE SUITABLE FOR BURIED SERVICE. OPERATORS SHALL BE HANDWHEEL TYPE WITH AN EXTENSION STEM AND IRON FLOOR STAND MOUNTED AS RECOMMENDED BY THE MANUFACTURER. OPERATOR SHALL REQUIRE A MAXIMUM OF 40 POUNDS FORCE TO OPEN OR CLOSE THE VALVE.
- 4. SPILL CONTAINMENT TANK. THE SPILL CONTAINMENT TANK SHALL BE A SINGLE WALL, 3,000 GALLON FIBERGLASS UST, COMPLETE IN ACCORDANCE WITH THE OHIO UST REGULATIONS. ALL METALLIC ITEMS ASSOCIATED WITH ANCHORING THE TANK SHALL BE CATHODICALLY PROTECTED. ACCESSORIES SHALL INCLUDE LIFTING LUGS, ANCHOR STRAPS, VENT, MANWAY, OVERFILL PROTECTION EQUIPMENT, LIQUID REMOVAL PIPE FOR CONNECTION TO HOSE PROVIDED BY THE WASTE HAULER AS NOTED ON THE DETAIL OF THIS SHEET. TANK SHALL BE XERXES MODEL T-5, OR EQUAL.



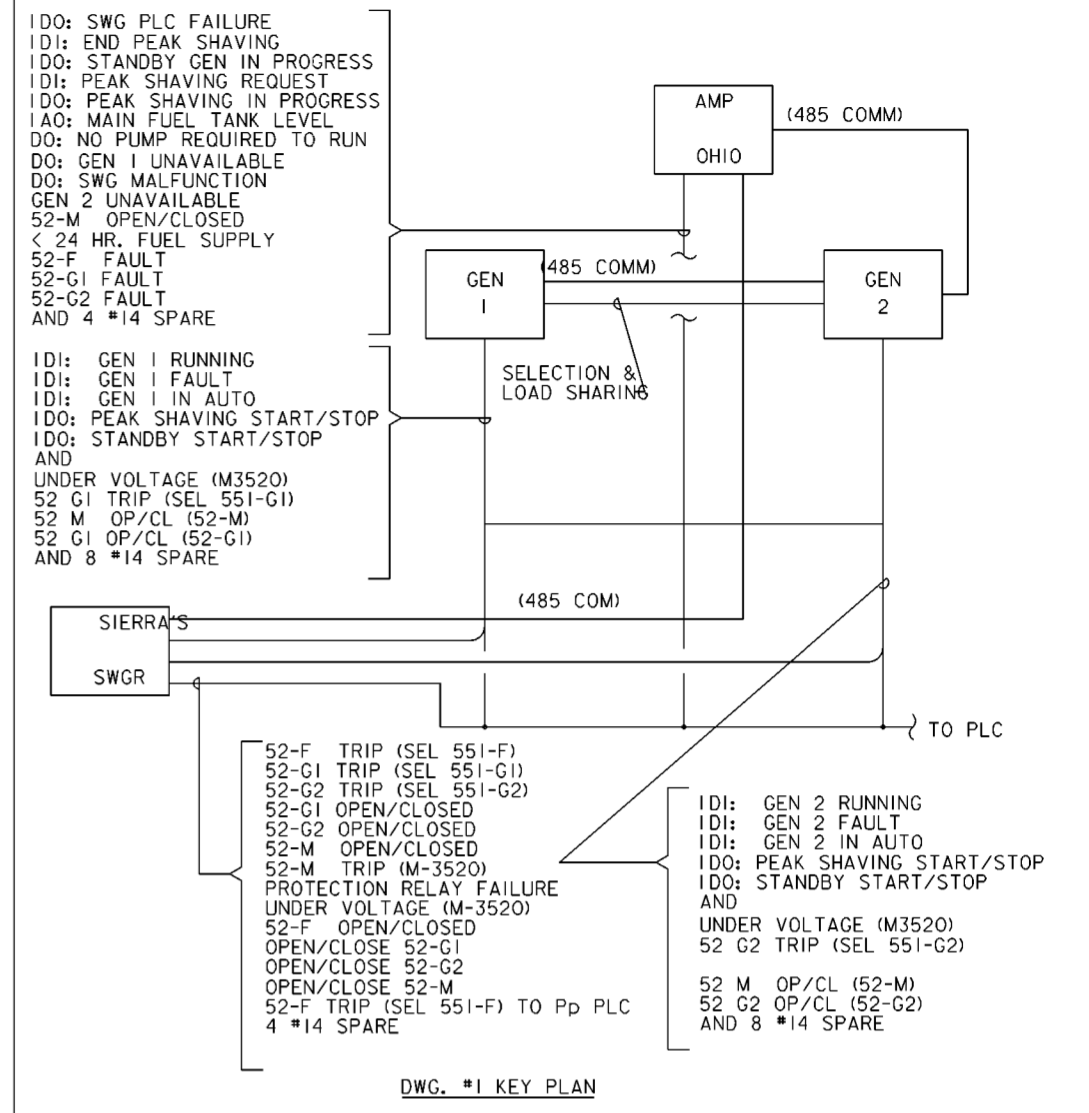
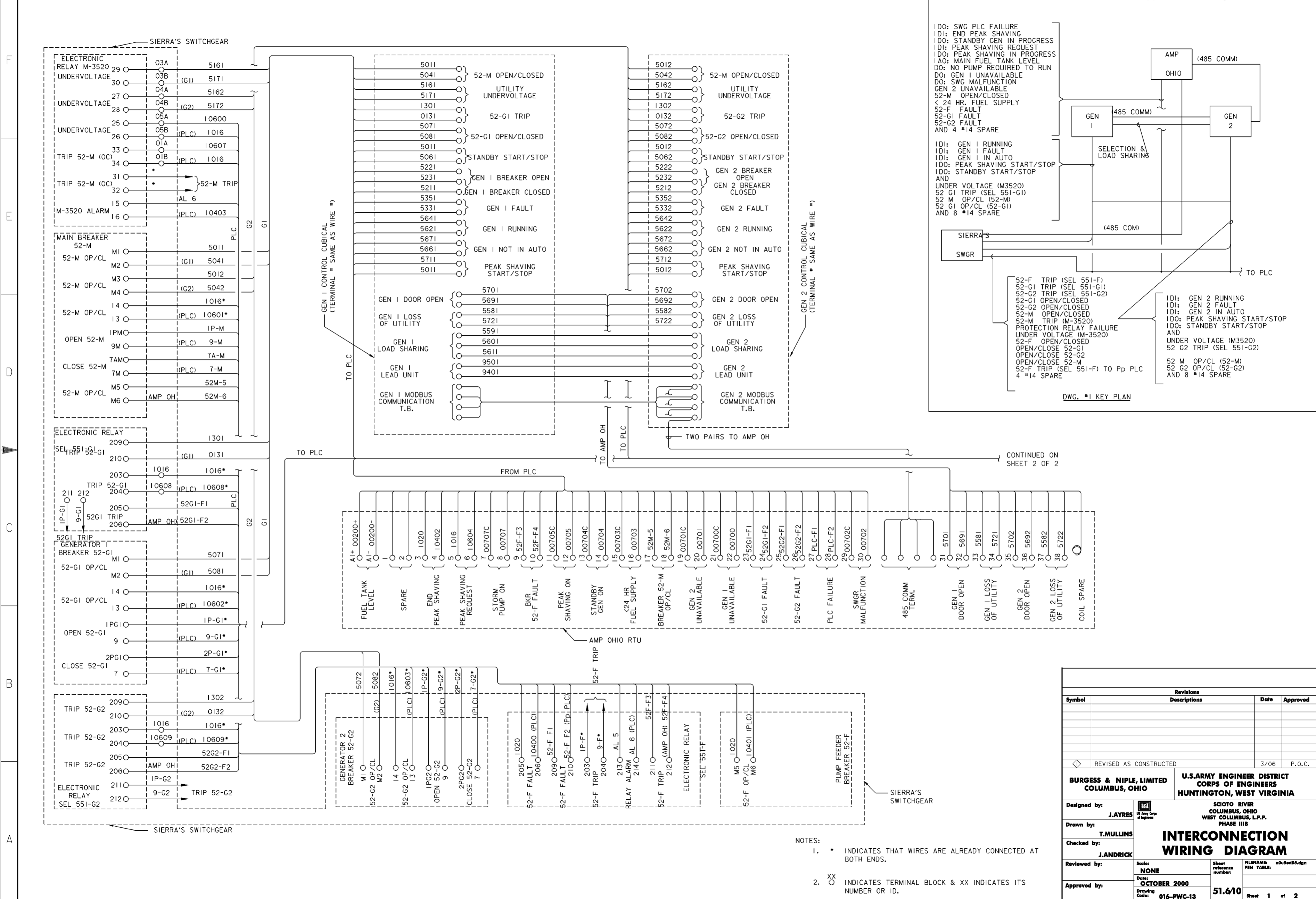
**SLOPE PROTECTION DETAIL**

SCALE: NONE

NOTE: SLOPE PROTECTION SHALL CONSIST OF CRUSHED LIMESTONE WITH A FILTER FABRIC BED MEETING THE REQUIREMENTS OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) SPECIFICATION ITEM 601.08, TYPE D

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>B.TORNES</b>		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>T.MULLINS</b>		<b>RELIABLE POWER</b> <b>SPILL CONTAINMENT</b>	
Checked by: <b>P.CONROY</b>		Scale: <b>AS SHOWN</b>	Sheet reference number: <b>51.69</b>
Reviewed by:		Date: <b>OCTOBER 2000</b>	FILENAME: 006d01.dgn
Approved by:		Drawing Code: <b>016-PWC-13</b>	PIN TABLE: Sheet <b>1</b> of <b>1</b>



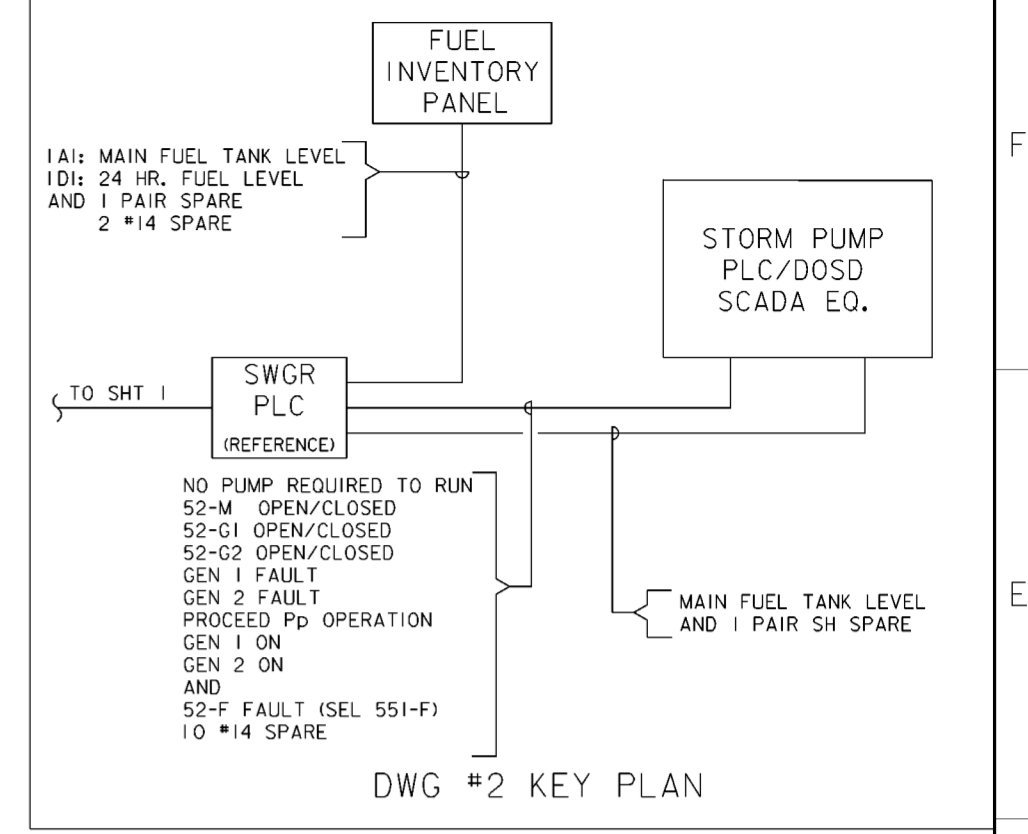
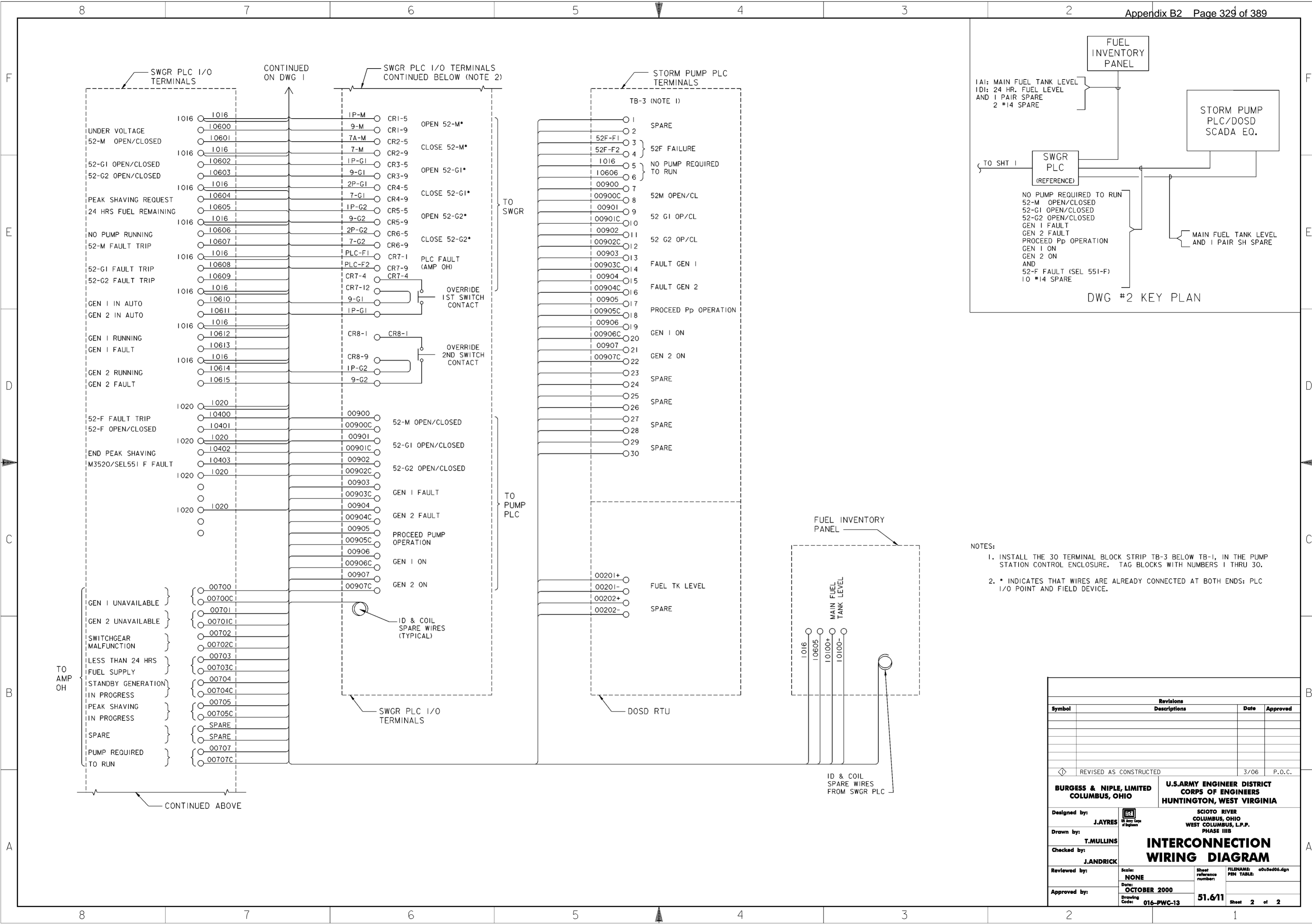
CONTINUED ON SHEET 2 OF 2

- NOTES:
- \* INDICATES THAT WIRES ARE ALREADY CONNECTED AT BOTH ENDS.
  - XX INDICATES TERMINAL BLOCK & XX INDICATES ITS NUMBER OR ID.

Revisions			
Symbol	Descriptions	Date	Approved
◇	REVISED AS CONSTRUCTED	3/06	P.O.C.

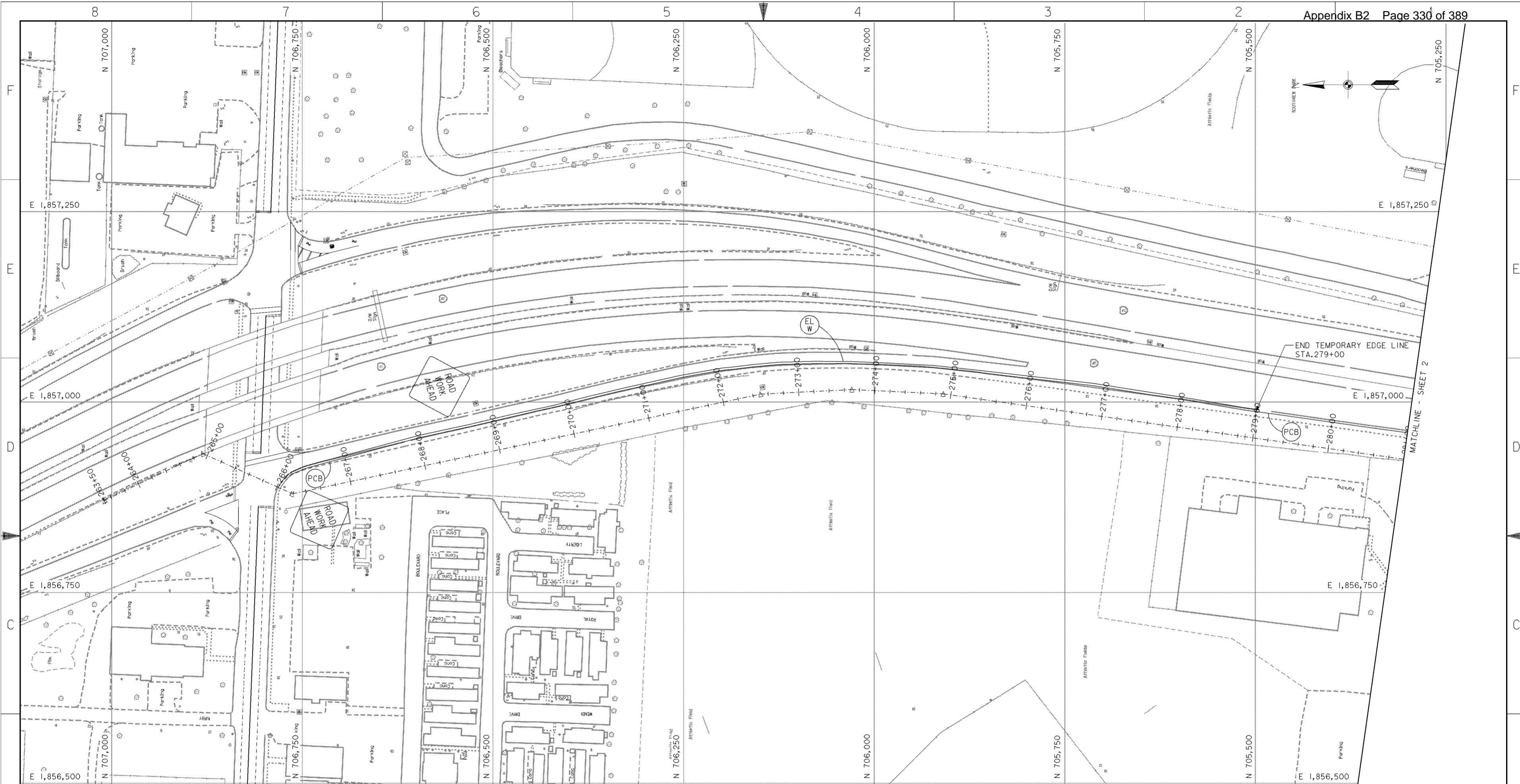
<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>J.AYRES</b> Drawn by: <b>T.MULLINS</b> Checked by: <b>J.ANDRICK</b> Reviewed by: _____ Approved by: _____	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>INTERCONNECTION WIRING DIAGRAM</b> Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Sheet reference number: <b>51.6/10</b> FILENAME: <b>o03ed05.dgn</b> Sheet <b>1</b> of <b>2</b>	





- NOTES:
- 1. INSTALL THE 30 TERMINAL BLOCK STRIP TB-3 BELOW TB-1, IN THE PUMP STATION CONTROL ENCLOSURE. TAG BLOCKS WITH NUMBERS 1 THRU 30.
  - 2. \* INDICATES THAT WIRES ARE ALREADY CONNECTED AT BOTH ENDS: PLC I/O POINT AND FIELD DEVICE.

Revisions			
Symbol	Descriptions	Date	Approved
REVISAS AS CONSTRUCTED		3/06	P.O.C.
<b>BURGESS &amp; NIPL, LIMITED COLUMBUS, OHIO</b>		<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>	
Designed by:	J.AYRES	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB	
Drawn by:	T.MULLINS	<b>INTERCONNECTION WIRING DIAGRAM</b>	
Checked by:	J.ANDRICK	Scale:	None
Reviewed by:		Date:	OCTOBER 2000
Approved by:		Drawing Code:	016-PWC-13
		Sheet reference number:	51.6/11
		FILENAME:	c005ed06.dgn
		PIN TABLE:	
		Sheet 2 of 2	



**NOTES**

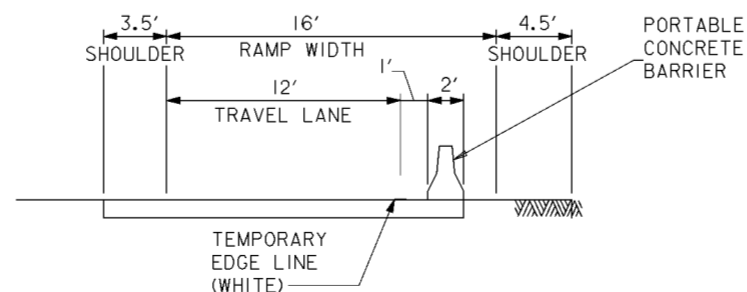
1. MAINTENANCE OF TRAFFIC  
TRAFFIC SHALL BE MAINTAINED PER THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE ODOT SPECIFICATIONS, AS WELL AS THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". THE 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).

**LEGEND**

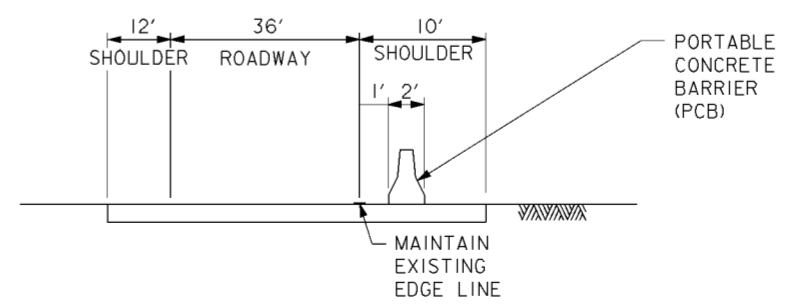
- (PCB) PORTABLE CONCRETE BARRIER
- (EL W) TEMPORARY EDGE LINE, WHITE

**PLAN**

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



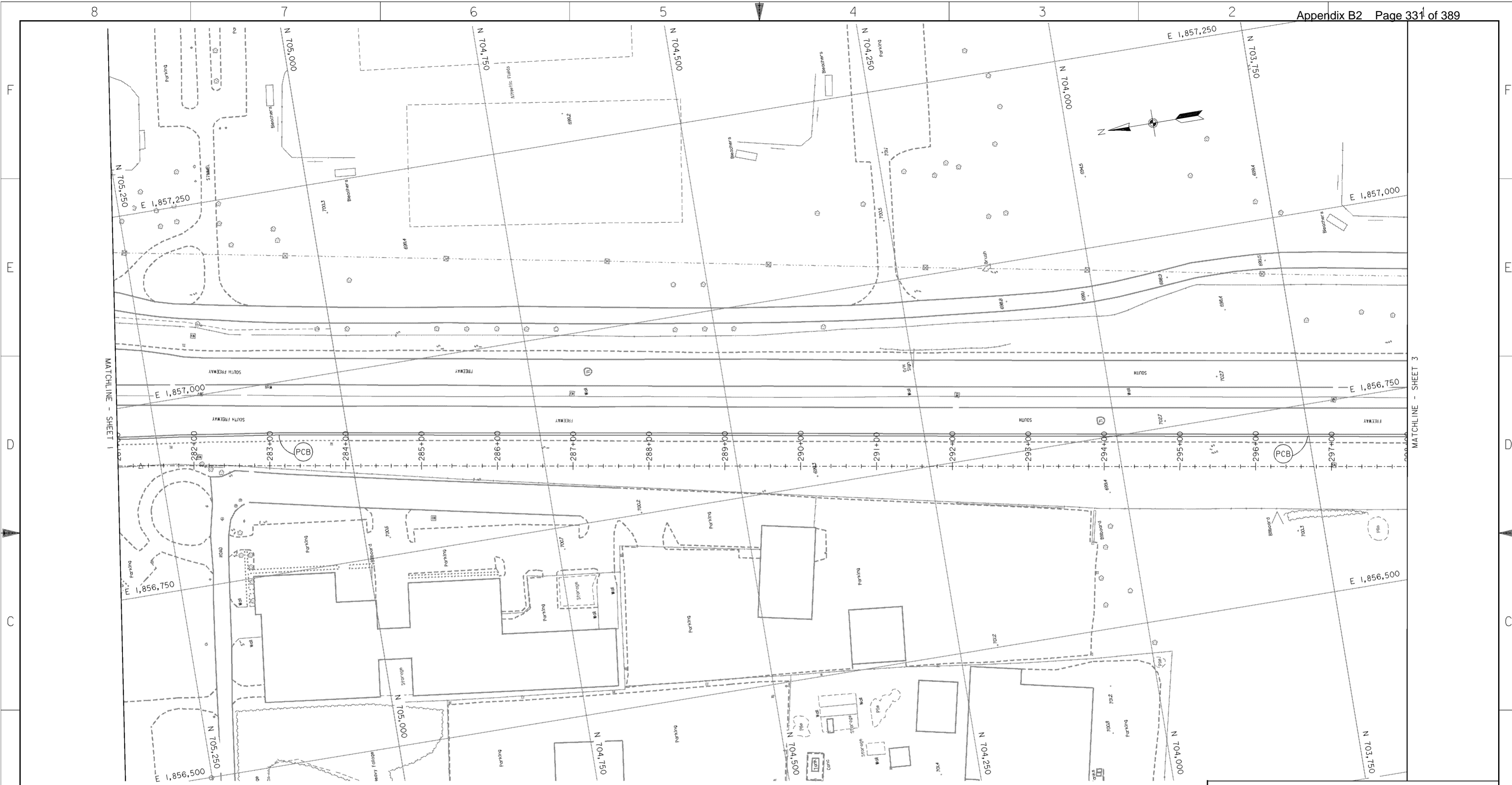
**STATION 267+00 TO 279+00**  
SCALE: NONE



**STATION 279+00 TO 281+00**  
SCALE: NONE

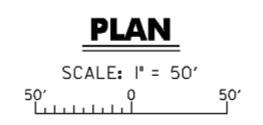
Symbol	Revisions Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by:	R.KILL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>I-71 TRAFFIC CONTROL PLAN (1 OF 5)</b>	
Drawn by:	R.KILL		
Checked by:	M.LOVE		
Reviewed by:	AS SHOWN		
Approved by:	OCTOBER 2000		
Drawing Code:	016-PWC-13	Sheet reference number:	92/1
FILENAME: 00h1p101.dgn		Sheet 1 of 5	

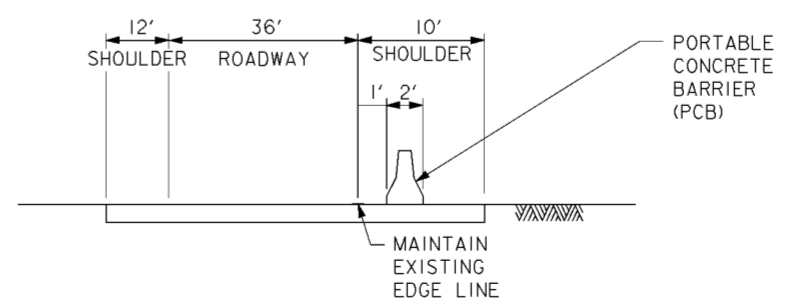


**NOTES**

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).

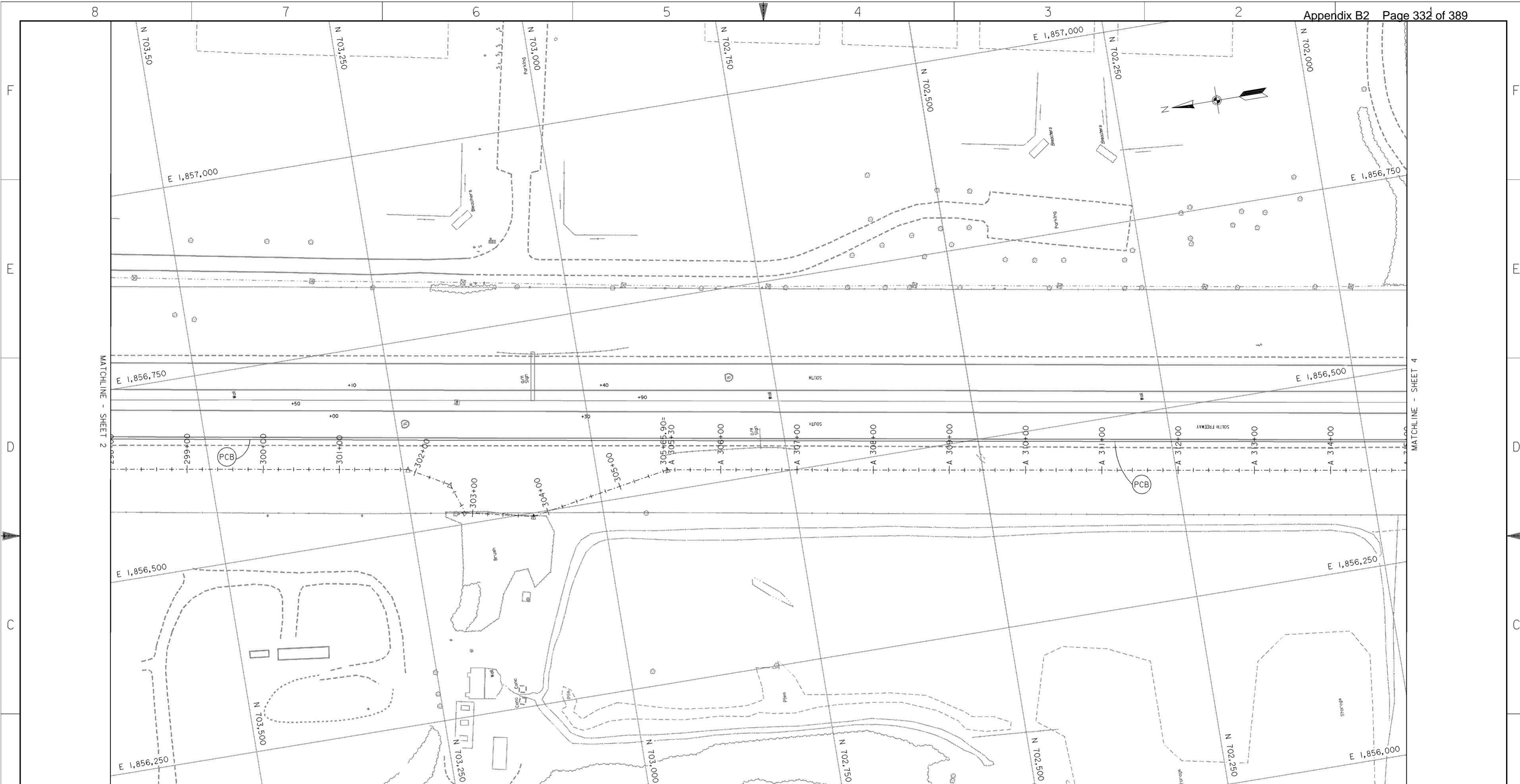


**STATION 281+00 TO 298+00**  
SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO  Designed by: <b>R.KILL</b> Drawn by: <b>R.KILL</b> Checked by: <b>M.LOVE</b> Reviewed by: <b>AS SHOWN</b> Approved by: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA  SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III  <b>I-71 TRAFFIC CONTROL PLAN (2 OF 5)</b>	Sheet reference number: <b>922</b>	FILENAME: 00h1p102.dgn PEN TABLE: Sheet <b>2</b> of <b>5</b>
		Scale: <b>AS SHOWN</b>	Date: <b>OCTOBER 2000</b>



**NOTES**

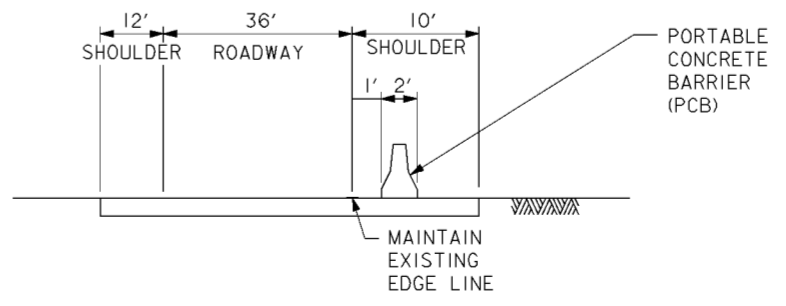
1. MAINTENANCE OF TRAFFIC  
TRAFFIC SHALL BE MAINTAINED PER THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE ODOT SPECIFICATIONS, AS WELL AS THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". THE 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).

**PLAN**

SCALE: 1" = 50'

**LEGEND**

PCB PORTABLE CONCRETE BARRIER



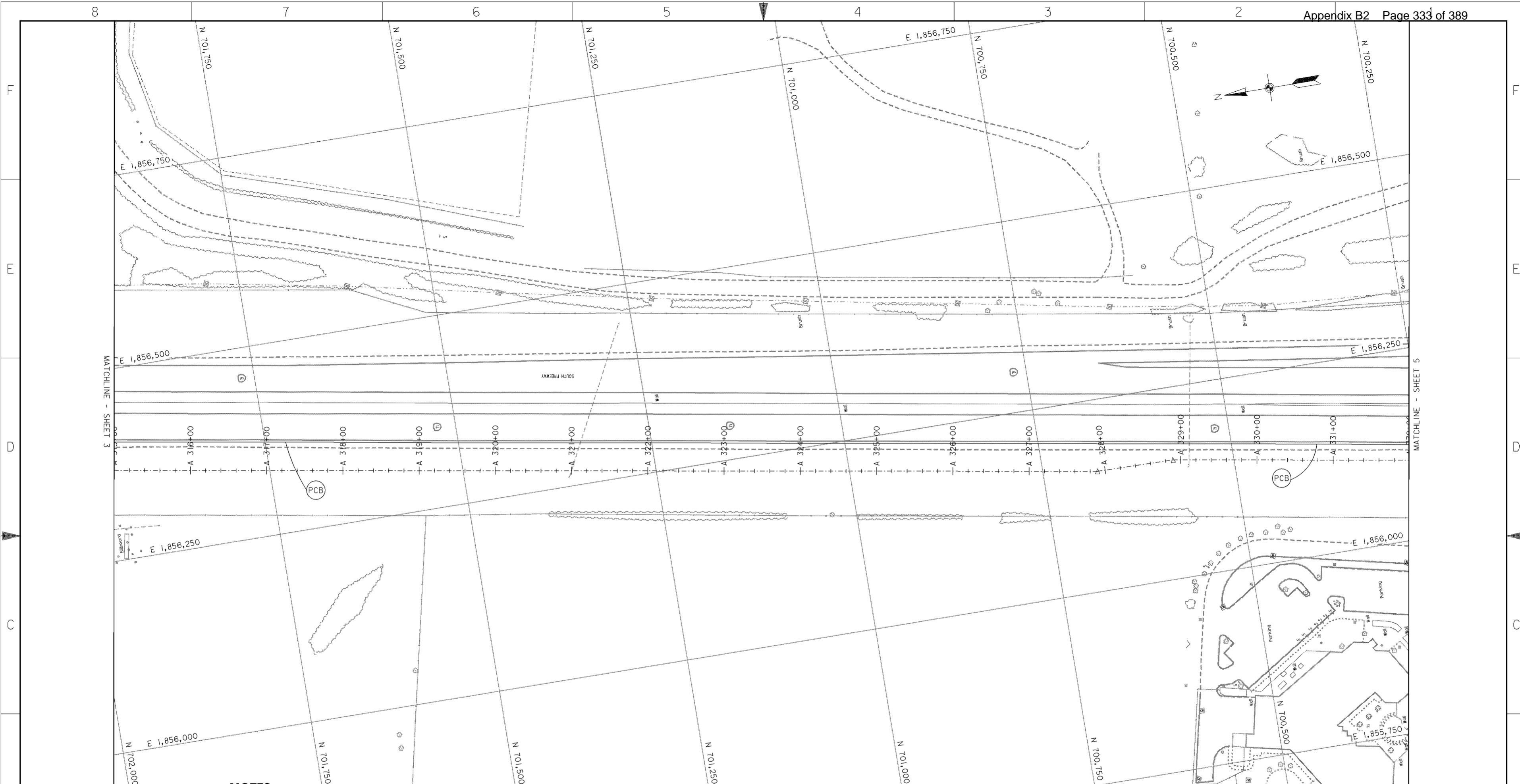
**STATION 298+00 TO 315+00**

SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved

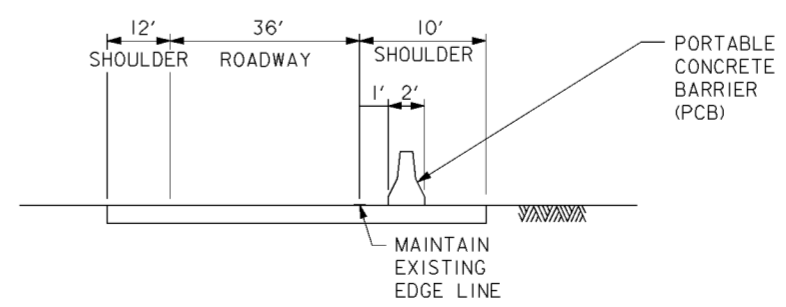
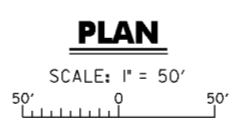
  

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Designed by: R.KILL	<p style="text-align: center;"><b>I-71 TRAFFIC CONTROL PLAN (3 OF 5)</b></p>
Drawn by: R.KILL	
Checked by: M.LOVE	
Reviewed by: AS SHOWN	
Approved by: DATE: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>92/3</b>
FILENAME: 00h1p03.dgn PEN TABLE: Sheet 3 of 5	



**NOTES**

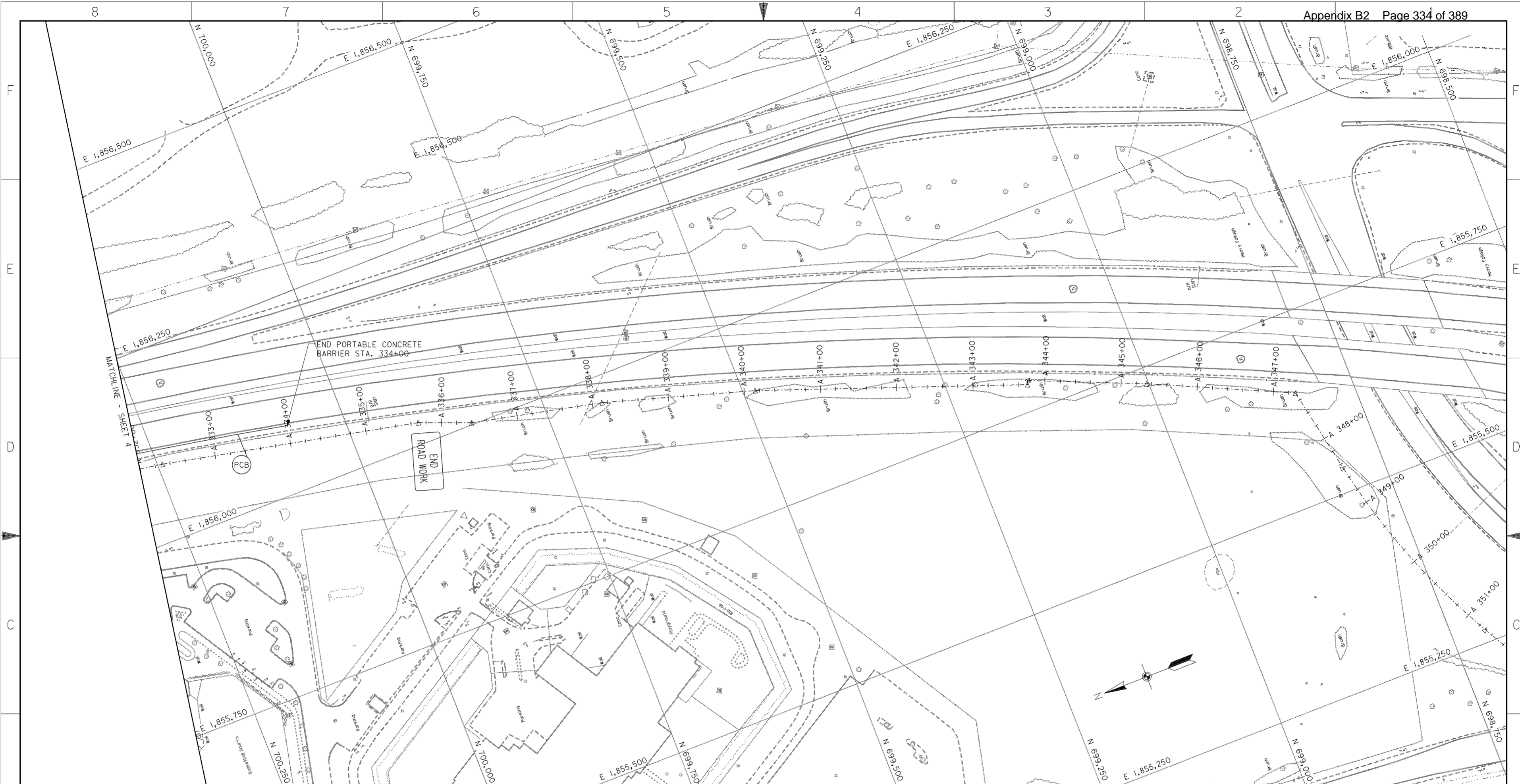
1. MAINTENANCE OF TRAFFIC  
TRAFFIC SHALL BE MAINTAINED PER THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE ODOT SPECIFICATIONS, AS WELL AS THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". THE 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).



**STATION 315+00 TO 332+00**  
SCALE: NONE

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>R.KILL</b>		SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>R.KILL</b>		<b>I-71 TRAFFIC CONTROL PLAN (4 OF 5)</b>	
Checked by: <b>M.LOVE</b>	Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>92/4</b>
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	FILENAME: 00h1p04.dgn PIN TABLE: Sheet 4 of 5



**NOTES**

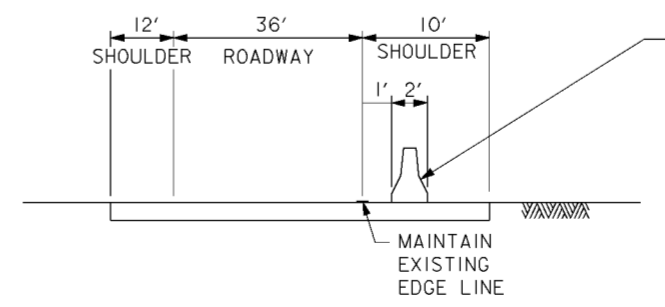
1. MAINTENANCE OF TRAFFIC  
TRAFFIC SHALL BE MAINTAINED PER THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE ODOT SPECIFICATIONS, AS WELL AS THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". THE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

**PLAN**

SCALE: 1" = 50'

**LEGEND**

(PCB) PORTABLE CONCRETE BARRIER



**STATION 332+00 TO 334+00**

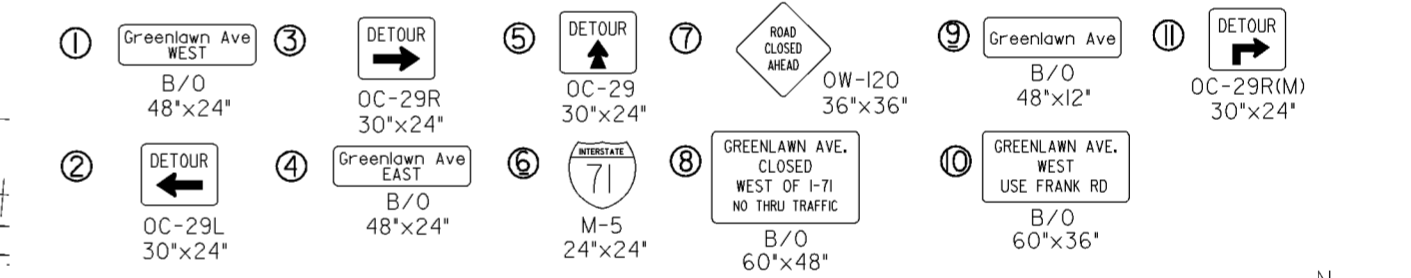
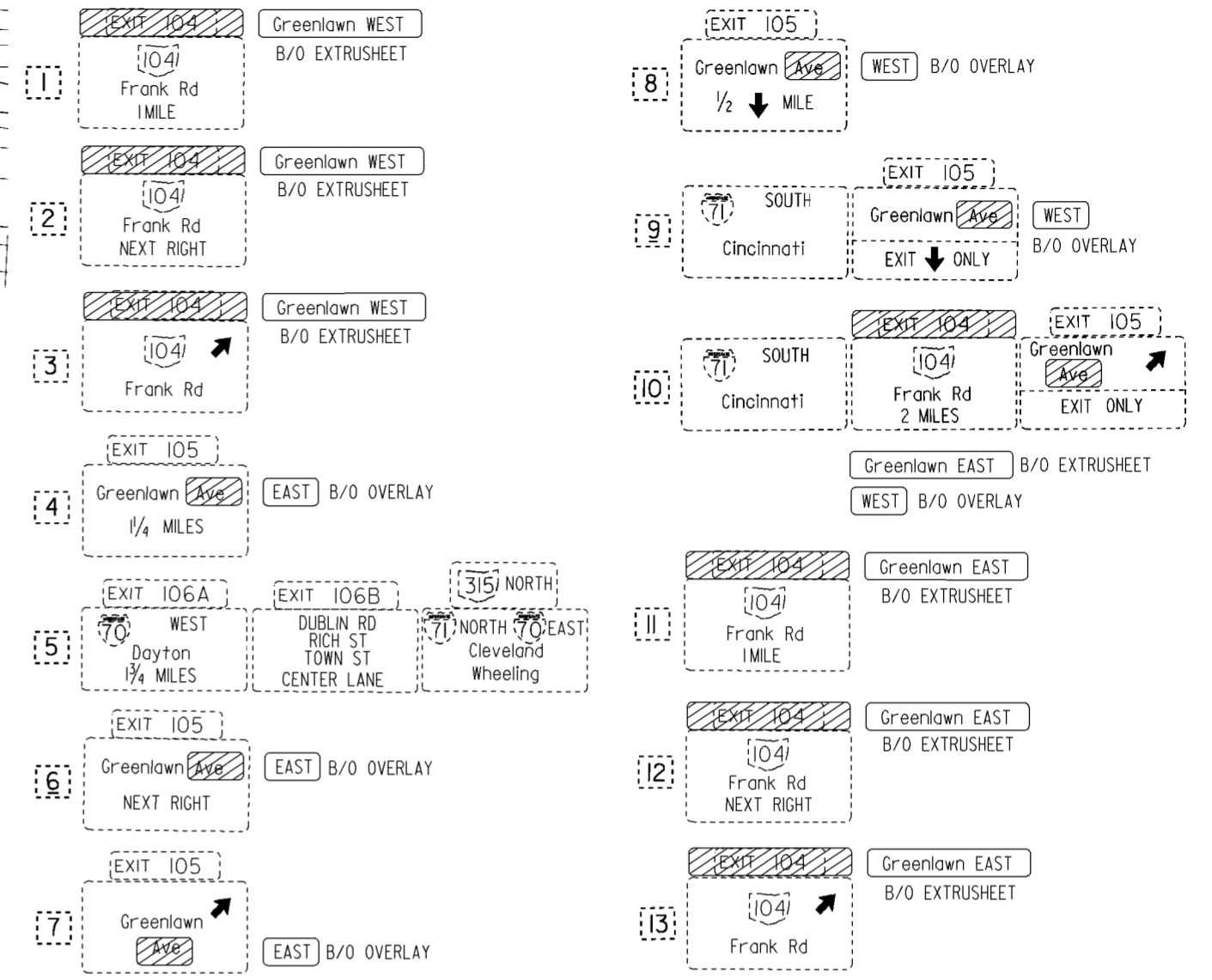
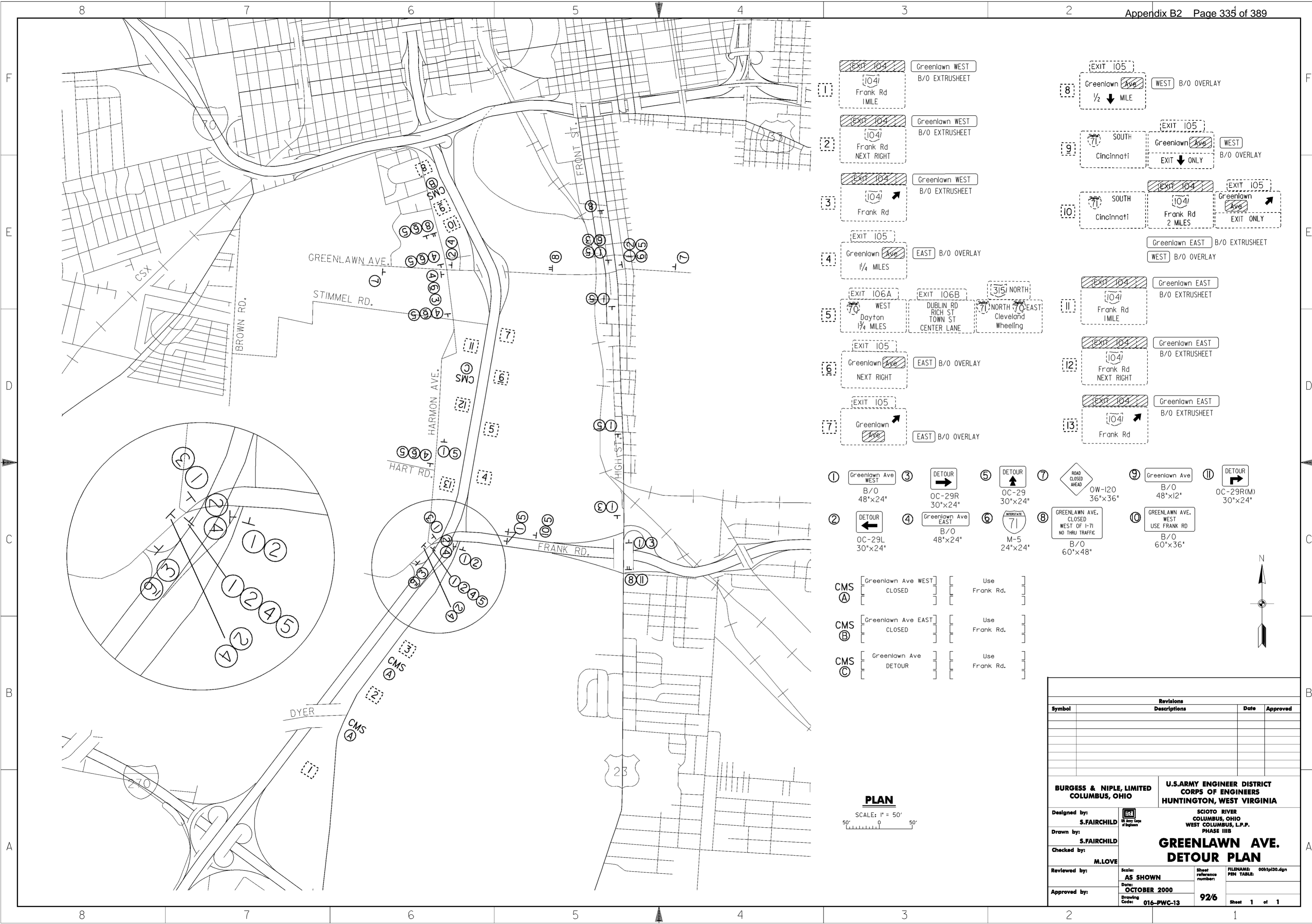
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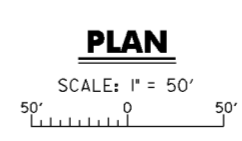
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLÉ, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
		<b>I-71 TRAFFIC CONTROL PLAN (5 OF 5)</b>	
Designed by: R.KILL	Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>92/5</b>	FILENAME: 00h1p10.dgn PIN TABLE:
Drawn by: R.KILL			
Checked by: M.LOVE			
Reviewed by:			
Approved by:			



CMS A	[Greenlawn Ave WEST CLOSED]	[Use Frank Rd.]
CMS B	[Greenlawn Ave EAST CLOSED]	[Use Frank Rd.]
CMS C	[Greenlawn Ave DETOUR]	[Use Frank Rd.]



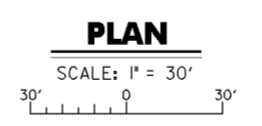
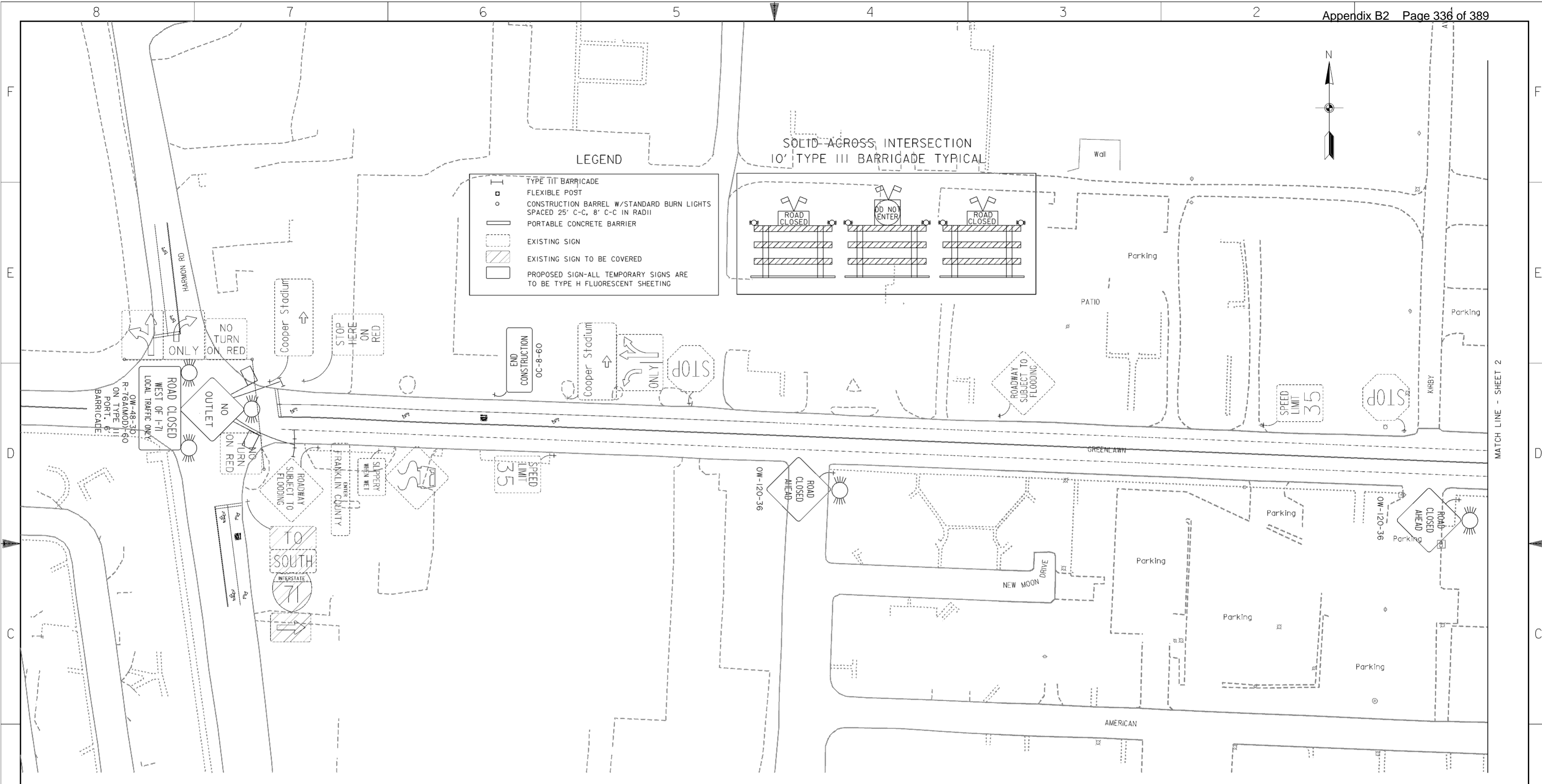
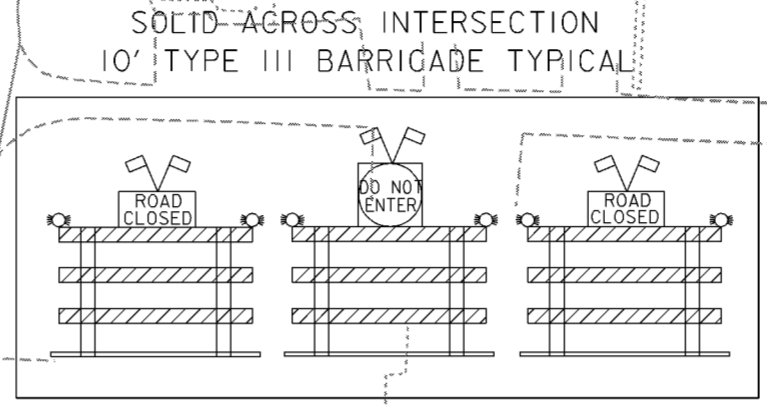
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>S. FAIRCHILD</b>	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>S. FAIRCHILD</b>	<b>GREENLAWN AVE.</b> <b>DETOUR PLAN</b>
Checked by: <b>M. LOVE</b>	Scale: <b>AS SHOWN</b>
Reviewed by:	Date: <b>OCTOBER 2000</b>
Approved by:	Drawing Code: <b>016-PWC-13</b>
Sheet reference number: <b>92/6</b>	FILENAME: PIN TABLE: 00h1p130.dgn
Sheet 1 of 1	

**LEGEND**

- TYPE III BARRICADE
- FLEXIBLE POST
- CONSTRUCTION BARREL W/STANDARD BURN LIGHTS SPACED 25' C-C, 8' C-C IN RADII
- PORTABLE CONCRETE BARRIER
- EXISTING SIGN
- EXISTING SIGN TO BE COVERED
- PROPOSED SIGN-ALL TEMPORARY SIGNS ARE TO BE TYPE H FLUORESCENT SHEETING



Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>S. FAIRCHILD</b>	
Drawn by: <b>S. FAIRCHILD</b>	
Checked by: <b>M. LOVE</b>	<p align="center"><b>GREENLAWN AVE.</b> <b>TRAFFIC CONTROL PLAN</b></p>
Reviewed by:	
Approved by:	
Scale: <b>AS SHOWN</b>	Sheet reference number: <b>92/7</b>
Date: <b>OCTOBER 2000</b>	FILENAME: PIN TABLE: 00h1p131.dgn
Drawing Code: <b>016-PWC-13</b>	Sheet <b>1</b> of <b>3</b>

**WORK AS CONSTRUCTED**



MATCH LINE - SHEET 3



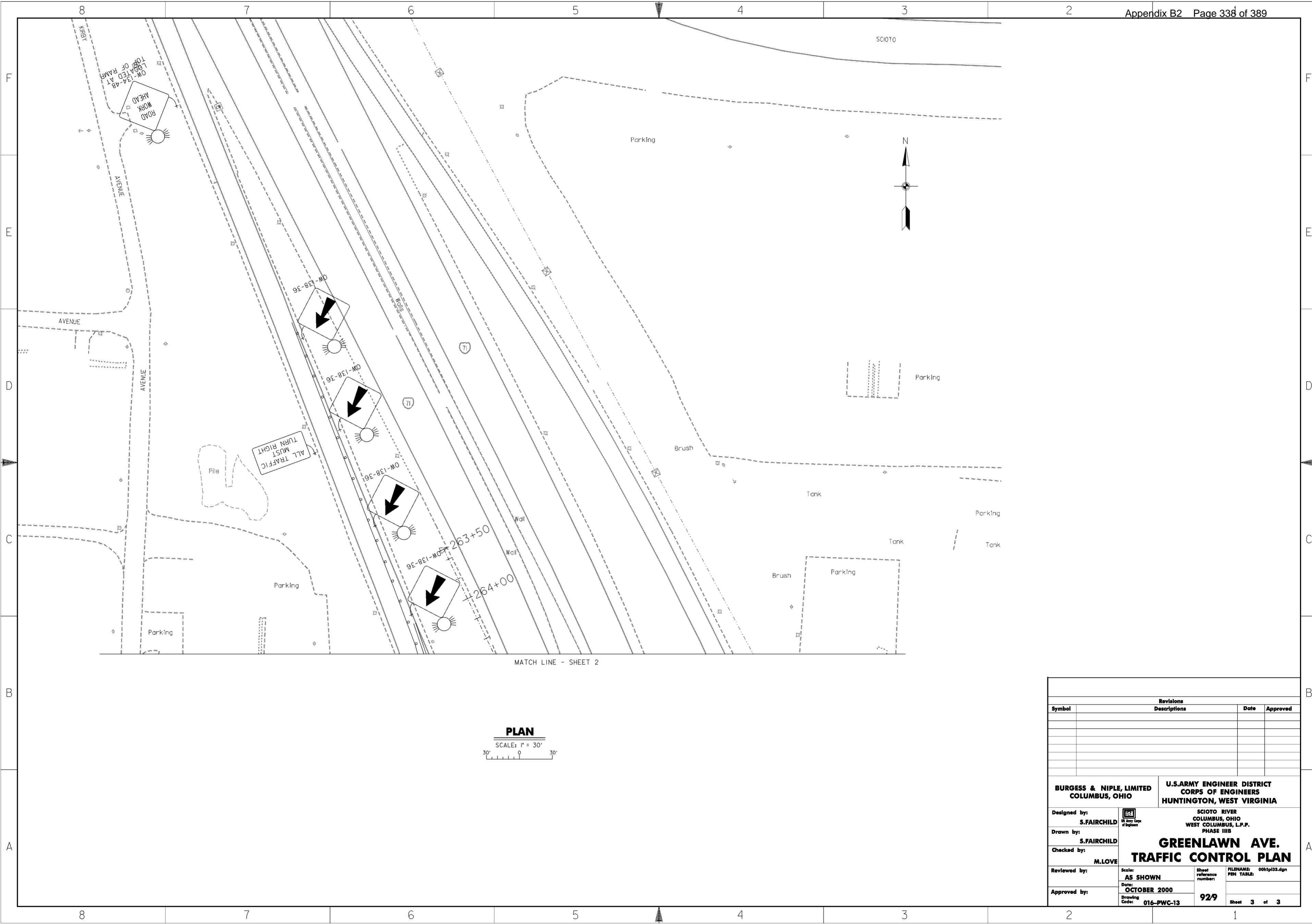
**PLAN**  
SCALE: 1" = 30'

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
	Designed by: <b>S. FAIRCHILD</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by: <b>S. FAIRCHILD</b>	<b>GREENLAWN AVE.</b> <b>TRAFFIC CONTROL PLAN</b>		
Checked by: <b>M. LOVE</b>			
Reviewed by:	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>92/8</b>	FILENAME: PIN TABLE: 00h1p132.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>2</b> of <b>3</b>

**WORK AS CONSTRUCTED**



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

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>S. FAIRCHILD</b>	<b>GREENLAWN AVE.</b> <b>TRAFFIC CONTROL PLAN</b>		
Drawn by: <b>S. FAIRCHILD</b>			
Checked by: <b>M. LOVE</b>			
Reviewed by: <b>AS SHOWN</b>	Scale: <b>AS SHOWN</b>	Sheet reference number: <b>92/9</b>	FILENAME: PEN TABLE: 00h1p133.dgn
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>3</b> of <b>3</b>

**WORK AS CONSTRUCTED**

## MAINTENANCE OF TRAFFIC NOTES

1. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS (CURRENT EDITION). COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223.
  2. CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TEMPORARY TRAFFIC CONTROLS ARE IN PLACE AND APPROVED BY THE CONSTRUCTION INSPECTION DIVISION.
  3. THE TRAFFIC ENGINEERING AND PARKING DIVISION CONSTRUCTION COORDINATOR (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.
  4. A MAINTENANCE OF TRAFFIC CONTROL PLAN (MTCP) SHALL BE SUBMITTED TO THE TRAFFIC ENGINEERING AND PARKING DIVISION CONSTRUCTION COORDINATOR (645-6269) AT THE PRE-CONSTRUCTION MEETING OR A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK. COPIES OF THE APPROVED MTCP SHALL BE GIVEN TO THE PROJECT ENGINEER AND KEPT ON THE PROJECT SITE ALONG WITH THE CITY STREET CLOSURE PERMIT.
  5. 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.
  6. A FLASHING ARROW PANEL (48"x96" - TYPE "C") SHALL BE USED IN LANE CLOSURES IN ACCORDANCE WITH THE OHIO MANUAL.
  7. ALL TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.
  8. ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
  9. THE TRAFFIC ENGINEERING AND PARKING DIVISION SHALL LOCATE AND MARK ALL UNDERGROUND TRAFFIC CONTROL CONDUIT/CABLES. THE DIVISION SYSTEMS ENGINEER SHALL BE NOTIFIED (645-7790) AT LEAST FORTY-EIGHT (48) HOURS, NOT INCLUDING SATURDAY AND SUNDAY, SIX (6) WEEKS FOR SIGNAL REVISIONS AND/OR POLE RELOCATIONS PRIOR TO THE BEGINNING OF ANY WORK WITHIN 400 FEET OF THE SIGNALIZED INTERSECTIONS OF GREENLAWN AVENUE AND THE I-71 NORTHBOUND AND SOUTHBOUND OFF RAMP OR WITHIN ANY POSTED AREA WHERE THE DIVISION HAS UNDERGROUND CONDUIT/CABLE.
  10. NO EXCAVATION SHALL BE MADE WITHIN FIVE (5) FEET OF ANY POLE THAT SUPPORTS TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARM OR SIGNAL SPAN. EXCAVATION WITHIN EIGHT (8) FEET, BUT MORE THAN FIVE (5) FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY, ETC.). THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING AND PARKING DIVISION SYSTEMS ENGINEER (645-7790) AT LEAST FORTY-EIGHT (48) HOURS, NOT INCLUDING SATURDAY AND SUNDAY, PRIOR TO THE BEGINNING OF SUCH EXCAVATION, SO THAT THE DIVISION MAY INSTALL SUCH SUPPORTS AT THE CONTRACTOR'S EXPENSE.
  11. WHEN A TRAFFIC SIGNAL DETECTOR OR THE DETECTOR LEAD-IN CABLE GETS CUT OR DAMAGED, THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEERING AND PARKING DIVISION SYSTEMS ENGINEER AT (614) 645-7790 BETWEEN 8:00 A.M. AND 4:30 P.M., MONDAY THROUGH FRIDAY. AT OTHER TIMES OR IF THE SYSTEMS ENGINEER CANNOT BE REACHED, CONTACT THE TRAFFIC ENGINEERING AND PARKING MAINTENANCE SHOP AT (614) 645-7393, LEAVING A MESSAGE ON THE ANSWERING MACHINE IF NECESSARY.
  12. THE ROADWAY SHALL NOT BE OPENED TO TRAFFIC UNTIL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS, APPROVED BY THE ENGINEER, ARE INSTALLED. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.
  13. ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS SHALL BE MAINTAINED THROUGHOUT THIS PROJECT BY THE CONTRACTOR. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED AND IMPROPERLY PLACED SIGNS.
  14. ANY WORK DONE BY THE TRAFFIC ENGINEERING AND PARKING DIVISION, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
  15. A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICER PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR FOLLOWING TASKS.  
 -FOR LANE CLOSURES : DURING INITIAL SET-UP PERIOD, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.  
 -DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.  
 -DURING CONSTRUCTION ACTIVITY FOR TIE-IN TO EXISTING SANITARY SEWER ON HARMON AVENUE.
- LAW ENFORCEMENT OFFICERS (LEOS) WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE PER HOUR, IF THE CONTRACTOR WISHES TO UTILIZE LEDS FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED FOR THE TASK ABOVE, THEY MAY DO SO AT THEIR OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS SHALL BE INCLUDED UNDER PAYMENT FOR MAINTANENCE TRAFFIC.
16. CLASS II TEMPORARY STRIPING (ABBREVIATED) SHALL BE AS PER ITEM 614 - WORK ZONE PAVEMENT MARKING AND SHALL BE PLACED WITHIN ONE (1) FOOT LONGITUDINAL TOLERANCE OF THE PERMANENT STRIPE(S). ALL TEMPORARY STRIPING NOT TO WITHIN ONE (1) FOOT TOLERANCE SHALL BE REMOVED AND REPLACED IN THE PROPER LOCATION BY THE CONTRACTOR. CLASS II TEMPORARY STRIPING (ABBREVIATED) SHALL CONSIST OF TWO (2) FOOT LONG STRIPES, OF THE APPROPRIATE COLOR, SPACED A MAXIMUM OF FORTY (40) FEET APART.
  17. GREENLAWN AVENUE SHALL NOT BE CLOSED TO THROUGH TRAFFIC LONGER THAN SIX WEEKS. GREENLAWN AVENUE SHALL BE OPENED TO TRAFFIC BETWEEN MAY 1ST AND SEPTEMBER 15.

**MAINTAINING TRAFFIC ON GREENLAWN AVENUE**

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 42 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC ON GREENLAWN AVENUE MAY BE DETOURED AS SHOWN ON DRAWING NO. 92/8. ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC BETWEEN MAY 1ST AND SEPTEMBER 15.

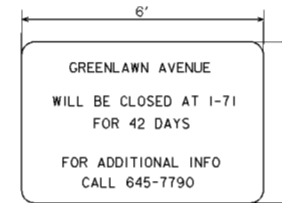
NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMP AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP.

NOTICE OF CLOSURE SIGN (OC-60A, MODIFIED)  
 THIS SIGN SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGN SHALL BE ERECTED AT THE POINT OF CLOSURE (BOTH DIRECTIONS) ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THE SIGN SHALL BE LOCATED SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ONE CHANGEABLE MESSAGE SIGN (CMS) SHALL BE PLACED ON EACH I-71 EXIT RAMP TO GREENLAWN AVENUE. THE CMS ON THE NORTHBOUND EXIT RAMP SHALL READ THE FOLLOWING:

[WB GREENLAWN AVE]	[FOR ADDITIONAL INFO]
[ WILL BE CLOSED ]	[ CALL 645-7790 ]
[ BEGINNING XXX ]	[ ]

THE CMS ON THE SOUTHBOUND EXIT RAMP SHALL READ THE FOLLOWING:

[EB GREENLAWN AVE]	[FOR ADDITIONAL INFO]
[ WILL BE CLOSED ]	[ CALL 645-7790 ]
[ BEGINNING XXX ]	[ ]



ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

**BARRIER REFLECTORS AND/OR OBJECT MARKERS**

BARRIER REFLECTORS AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO THE APPROPRIATE PROPOSAL NOTE AND ITEM 626 EXCEPT THAT THE SPACING SHALL BE 25 FEET. AN ESTIMATED QUANTITY OF 300 EACH OF ITEM 614 BARRIER REFLECTOR, TYPE B, HAS BEEN PROVIDED.

**ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES**

THE FOLLOWING ITEMS ARE TO BE USED WHEN IT HAS BEEN DETERMINED BY THE CONTRACTING OFFICER THAT ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES NOT SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS ARE REQUIRED.

DRUMS, BARRICADES OR SIGNS AND PAVEMENT MARKINGS FURNISHED WILL BE IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL.

SIGNS FURNISHED UNDER THIS ITEM SHALL INCLUDE SUPPORT AND MOUNTING HARDWARE.

PAVEMENT MARKINGS FURNISHED UNDER THIS ITEM SHALL INCLUDE INSTALLATION AND REMOVAL OF BOTH TEMPORARY AND PERMANENT.

THE FOLLOWING QUANTITIES FOR THESE ITEMS HAVE BEEN INCLUDED IN THE BID ITEM MAINTAINED TRAFFIC DIRECTED BY THE CONTRACTING OFFICER.

614	50	EACH	TEMPORARY 42" CONES WITH FOUR (4) REFLECTIVE STRIPES
614	50	EACH	TEMPORARY DRUMS
SPEC.	25	EACH	REBOUNDABLE TUBULAR 48" PYLON
614	18	S.F.	SIGNS, TEMPORARY FLAT SHEET, TYPE H
614	50	EACH	STEADY BURN TYPE "C" LIGHTS
614	3	EACH	TYPE III BARRICADE (10' LONG)

**COORDINATION WITH THE COLUMBUS PAVING THE WAY PROGRAM (PTWP)**

THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON A WEEKLY BASIS. WHEN DETOURS ARE PLANNED, THE NOTIFICATION SHALL BE AT THE PRECONSTRUCTION MEETING OR THIRTY (30) DAYS IN ADVANCE ONCE CONSTRUCTION HAS BEGUN. LANE AND RAMP CLOSURES FOR MORE THAN TWO (2) WEEKS SHALL BE REPORTED AT LEAST TEN (10) WORKING DAYS IN ADVANCE. LANE AND RAMP CLOSURES OF LESS THAN TWO (2) WEEKS DURATION AND MORE THAN TWO (2) DAYS SHALL BE REPORTED AT LEAST THREE (3) WORKING DAYS IN ADVANCE. FOR SHORT-TERM LANE OR RAMP CLOSURES (TWO (2) DAYS OR LESS), NOTIFICATION SHALL BE MADE AT LEAST ONE (1) WORKING DAY IN ADVANCE.

INFORMATION SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT TRAFFIC AT PRESENT AND IN THE NEXT THIRTY (30) DAYS. THE REPORT SHALL BE OF A FORMAT APPROVED BY THE CONTRACTING OFFICER. THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL WHO WILL BE RESPONSIBLE TO PREPARE THIS REPORT AT THE PRECONSTRUCTION MEETING.

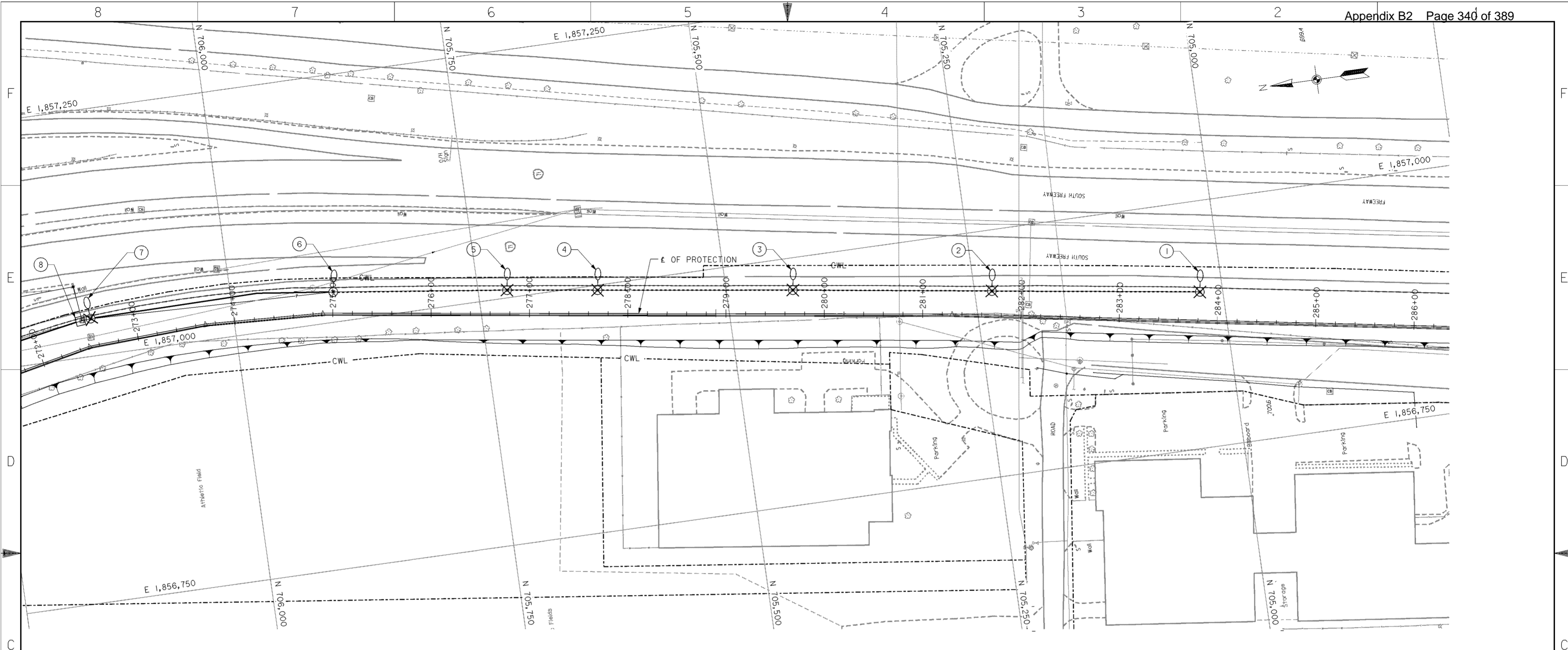
ANY UNFORSEEN IMPACTS TO TRAFFIC SHALL BE REPORTED TO THE CONTRACTING OFFICER AS SOON AS POSSIBLE.

THE CONTRACTING OFFICER SHALL PROVIDE THIS INFORMATION TO THE PTWP PROGRAM. ALL CONSTRUCTION ACTIVITIES THAT INTERFERE WITH TRAFFIC SHALL BE PROVIDED TO THE PROGRAM COORDINATOR AT (614) 645-3970, OR THE PROGRAM INFORMATION OFFICER AT (614) 645-6016 OR BY FAX AT (614) 645-5844.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S.ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA		
Designed by: <b>S.FAIRCHILD</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB  <b>MAINTENANCE OF TRAFFIC NOTES</b>		
Drawn by: <b>S.FAIRCHILD</b>			
Checked by: <b>M.LOVE</b>			
Reviewed by: NONE			
Approved by:	Scale: NONE	Sheet reference number: 92/10	FILENAME: 00h1mr01.dgn
Drawing Code: 016-PWC-13	Date: OCTOBER 2000	PIN TABLE: 92/10	Sheet 1 of 1



**PLAN**  
SCALE: 1" = 40'

**EXISTING LIGHT POLE LOCATION AND DESCRIPTION SCHEDULE**

Station	Offset	Description
STA.283+81	28.74' LEFT	700-III-AT15B41.7
STA.281+70	24.28' LEFT	700-III-AT15B41.7
STA.279+68	24.03' LEFT	700-III-AT15B41.7
STA.277+69	23.68' LEFT	700-III-AT15B41.7
STA.276+77	23.59' LEFT	700-III-AT15B41.7
STA.275+00	21.48' LEFT	700-III-AT15B41.7 REMOVE EXISTING CONNECTOR KITS AND CIRCUIT CONDUCTORS TO LIGHT POLE AT STA.276+77. CLEAN CONDUIT AND PLUG TEMPORARILY UNTIL NEW CONDUCTORS ARE PULLED IN.
STA.272+56	27.33' LEFT	400-II-AT12B34.2 POLE TO BE REINSTALLED AT SAME LOCATION ON NEW FOUNDATION.
STA.272+47	15' LEFT	CORRUGATED STEEL PULLBOX. REMOVE EXISTING CIRCUIT CONDUCTORS TO LIGHT POLE AT STA.272+57

**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

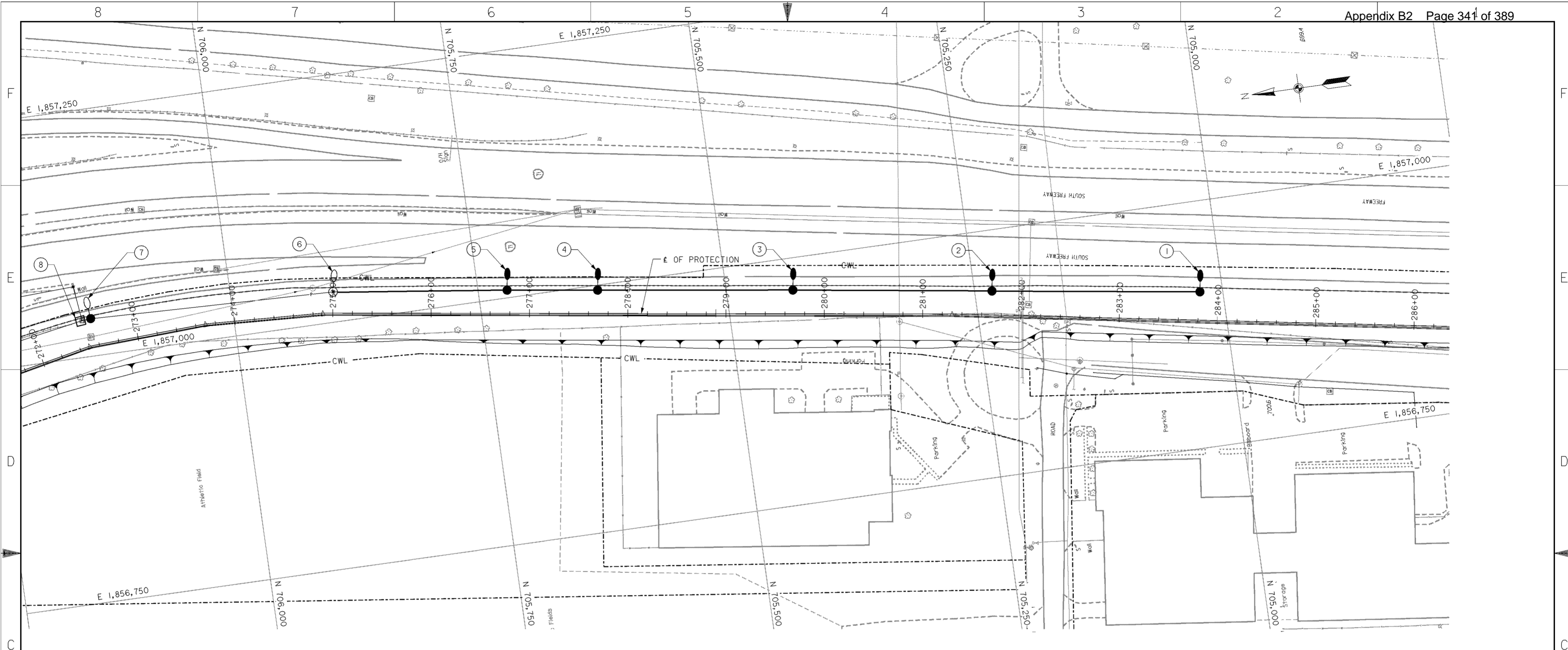
**NOTES**

- REFER TO SPECIFICATION SECTION 16528.3.16 FOR MAINTENANCE OF EXISTING LIGHTING DURING CONSTRUCTION.
- SEE LIGHT POLE DESIGN NUMBER DESIGNATIONS ON DRAWING NO. 93/3 .

Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO Designed by: <b>R.TACKETT</b> Drawn by: <b>T.MULLINS</b> Checked by: Reviewed by: Approved by:	U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>ROADWAY LIGHTING                  REMOVAL</b> Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	FILENAME: <b>o0u9ep01.dgn</b> PEN TABLE: Sheet reference number: <b>93/1</b> Sheet <b>1</b> of <b>1</b>
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**WORK AS CONSTRUCTED**



**PLAN**  
SCALE: 1" = 40'

**PROPOSED LIGHT POLE LOCATION AND DESCRIPTION SCHEDULE**

Station	Offset	Description
① STA.283+81	25.74' LEFT	400-III-AT18B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS. CIRCUIT A POLE 11.
② STA.281+70	21.28' LEFT	400-III-AT18B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS. CIRCUIT A POLE 10.
③ STA.279+68	21.03' LEFT	400-III-AT18B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS. CIRCUIT A POLE 9.
④ STA.277+69	20.63' LEFT	400-III-AT18B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS. CIRCUIT A POLE 8.
⑤ STA.276+77	20.59' LEFT	400-III-AT18B41.7 WITH TYPE II AND TYPE III CONNECTOR KITS. CIRCUIT A POLE 7.
⑥ STA.275+00	21.48' LEFT	INSTALL NEW CIRCUIT CONDUCTORS FROM LIGHT POLE AT STA.276+77. RECONNECT EXISTING POLE AND BRACKET CABLES AND EXISTING CIRCUIT CONDUCTORS FROM POLE AT STA.272+57 WITH TYPE II AND TYPE III CONNECTOR KITS.
⑦ STA.272+56	27.33' LEFT	REINSTALL EXISTING POLE ON NEW FOUNDATION AT SAME LOCATION. PROVIDE NEW CIRCUIT CONDUCTORS TO PULLBOX AT STA.272+47. RECONNECT EXISTING POLE AND BRACKET CABLES AND EXISTING CIRCUIT CONDUCTORS FROM LIGHT POLE AT STA.275+00 WITH TYPE II AND TYPE III CONNECTOR KITS. CIRCUIT A POLES.
⑧ STA.272+47	9' LEFT	CONNECT NEW CABLE FROM LIGHT POLE AT STA.272+57 TO EXISTING CABLES WITH TWO CABLE SPLICING KITS.

**LEGEND**

- EXISTING LIGHT POLE AND FOUNDATION TO BE RECONNECTED
- PROPOSED LIGHT POLE AND FOUNDATION. SEE DETAILS ON DRAWING NOS. 93/3 THRU 93/6
- EXISTING LIGHT POLE AND NEW FOUNDATION. SEE DETAILS ON DRAWING NO. 93/6
- 1/2" DUCT-CABLE WITH TWO NO.4 AWG 5000 VOLT CABLES IN 24" DEEP TRENCH. SEE DETAIL ON DRAWING NO. 93/6
- CONTRACTOR WORK LIMITS
- EXISTING PULL BOX TO BE RECONNECTED

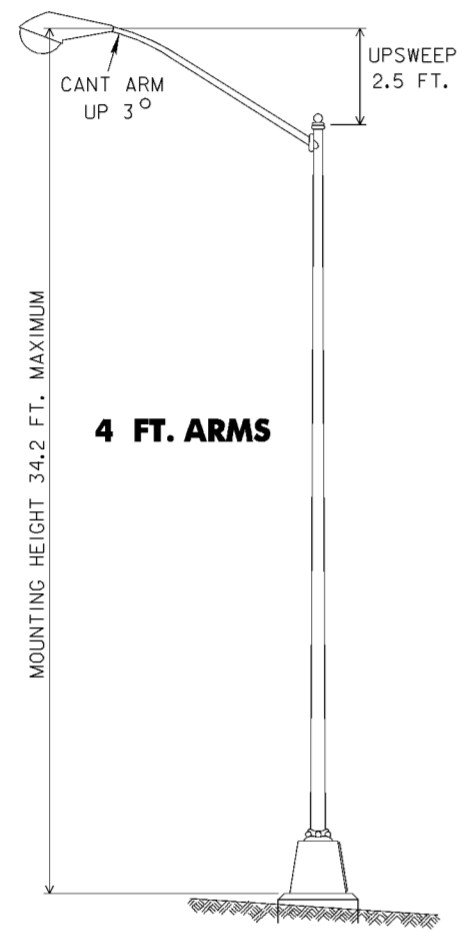
**NOTES**

1. SEE LIGHT POLE DESIGNATIONS ON DRAWING NO. 93/3.

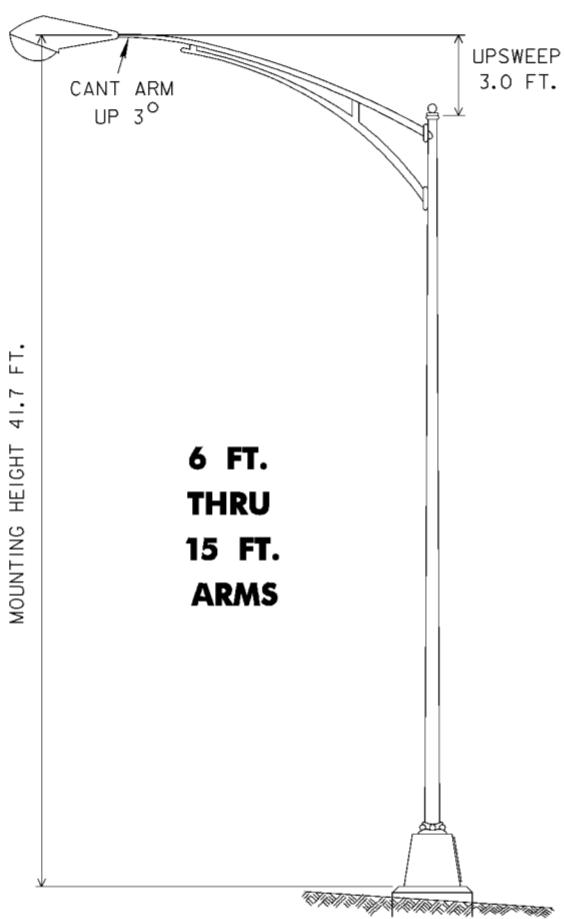
Revisions			
Symbol	Descriptions	Date	Approved
◊	REVISED AS CONSTRUCTED	3/03	P.O.C.

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO Designed by: <b>R.TACKETT</b> Drawn by: <b>T.MULLINS</b> Checked by: Reviewed by: Approved by:	<b>U.S.ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B <b>ROADWAY LIGHTING REPLACEMENT</b> Scale: <b>AS SHOWN</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>	FILENAME: a0u9ep02.dgn Sheet reference number: <b>93/2</b> Sheet <b>1</b> of <b>1</b>
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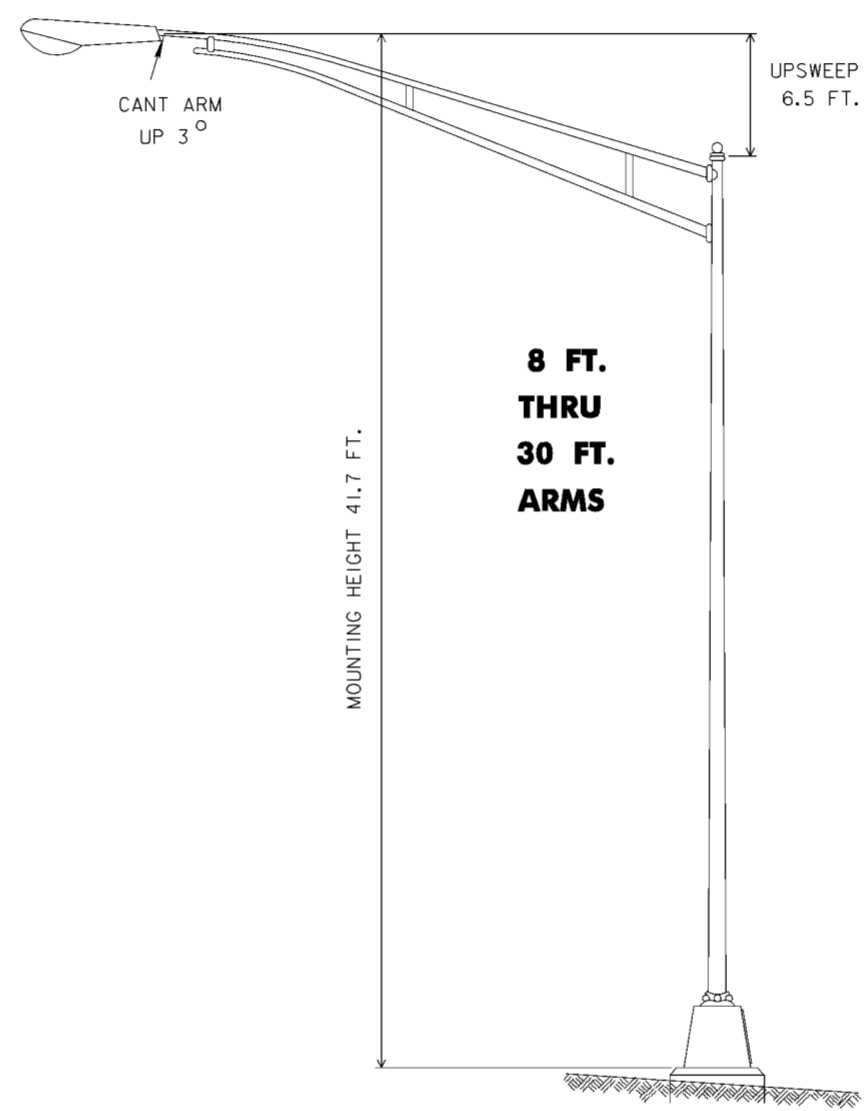
**WORK AS CONSTRUCTED**



**STYLE I**



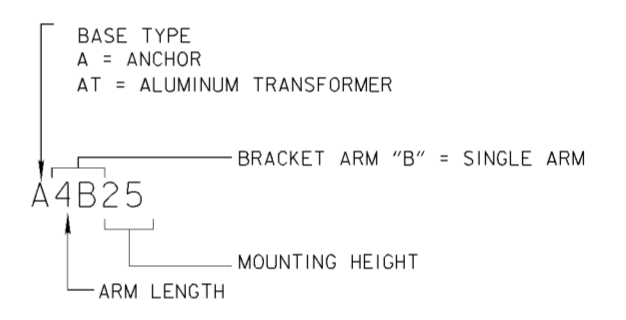
**STYLE II**



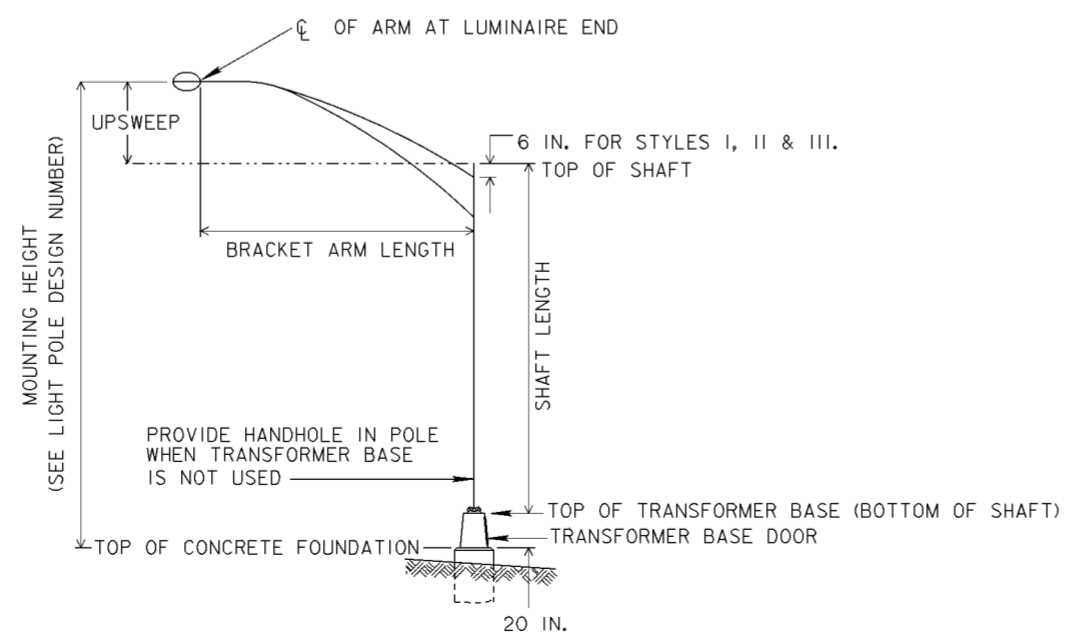
**STYLE III**

**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.



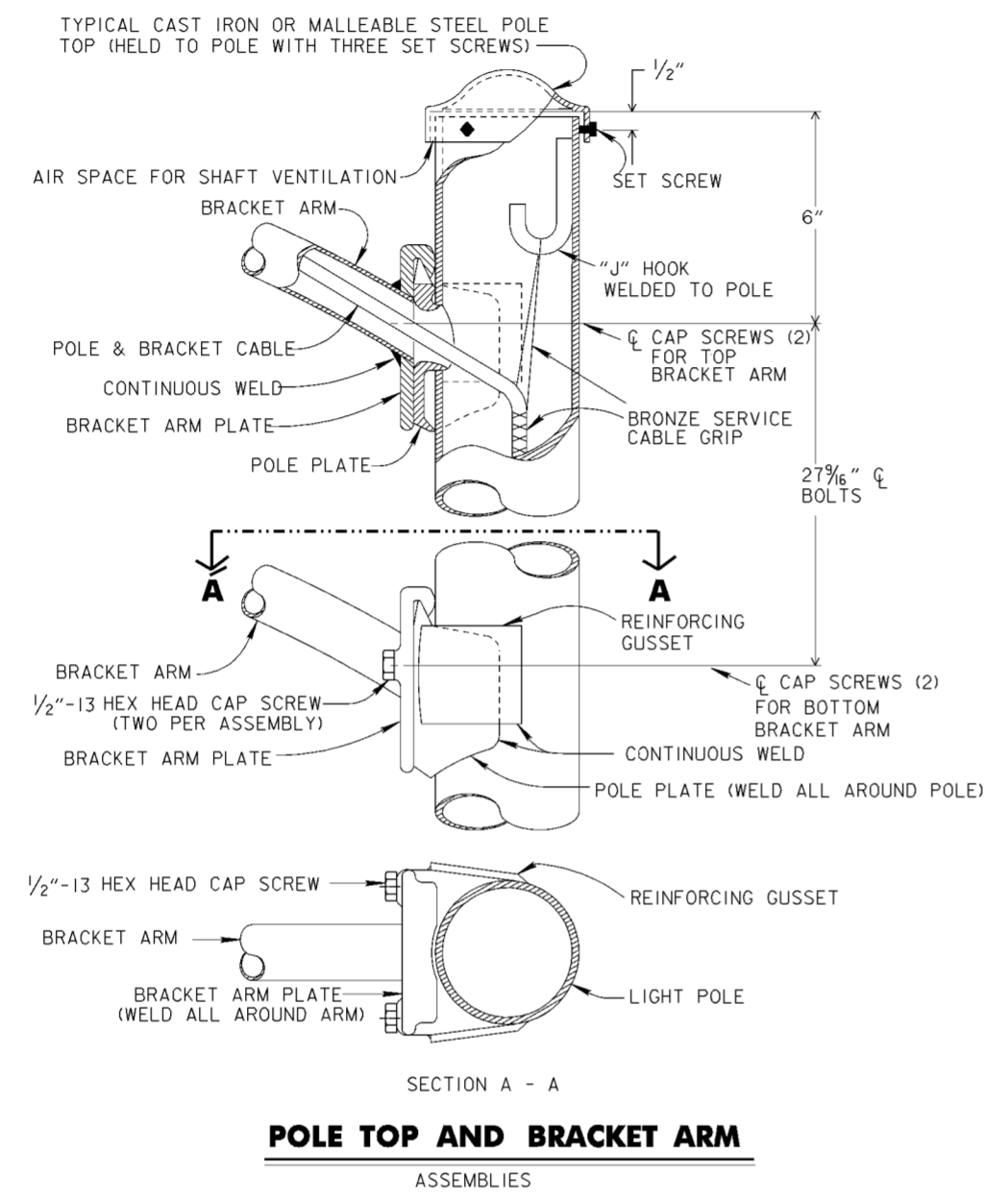
MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM TOP OF FOUNDATION TO THE CENTER OF THE BRACKET ARM AT THE LUMINAIRE END.



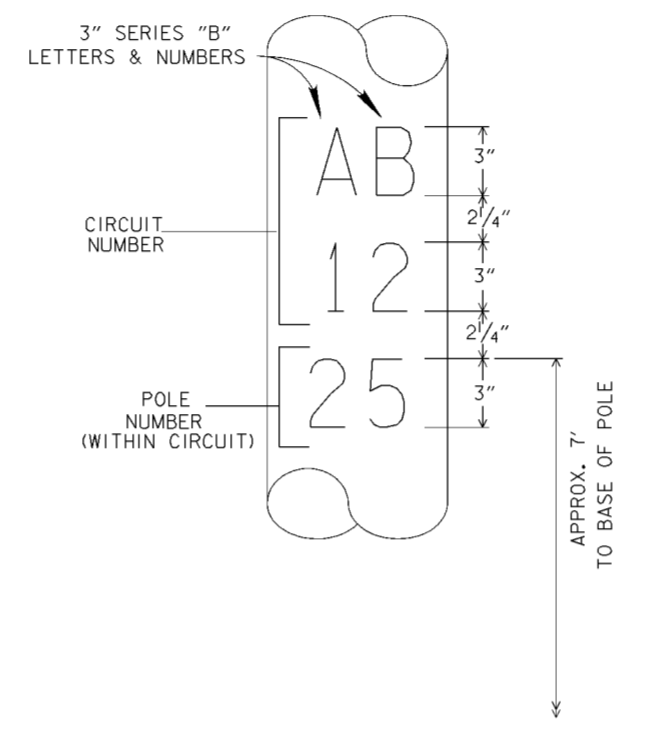
**POLE COMPONENTS**

Revisions			
Symbol	Descriptions	Date	Approved

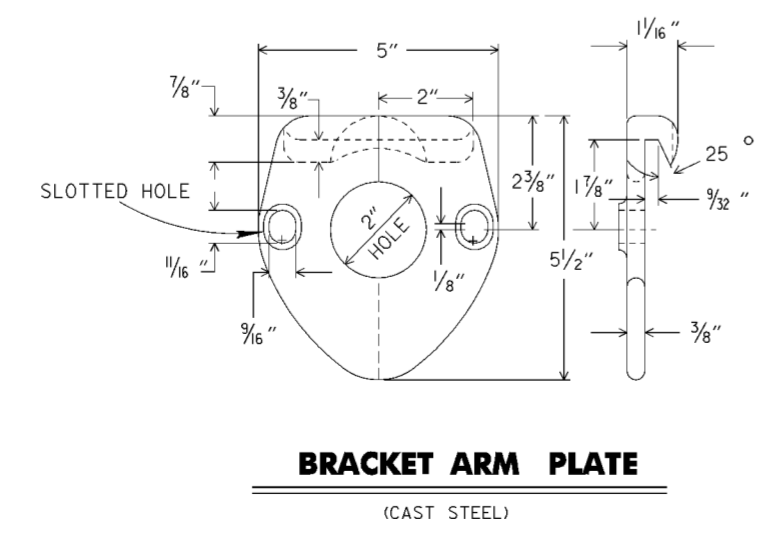
<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	Designed by: <b>R.TACKETT</b>	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
		Drawn by: <b>T.FAHERTY</b>	
Checked by: <b>R.TACKETT</b>	<b>ROADWAY LIGHTING</b> <b>DETAILS (1 OF 5)</b>		FILENAME: 00usdi07.dgn
Reviewed by: <b>NONE</b>			Scale: <b>NONE</b>
Approved by:	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	PEN TABLE: Sheet <b>1</b> of <b>5</b>



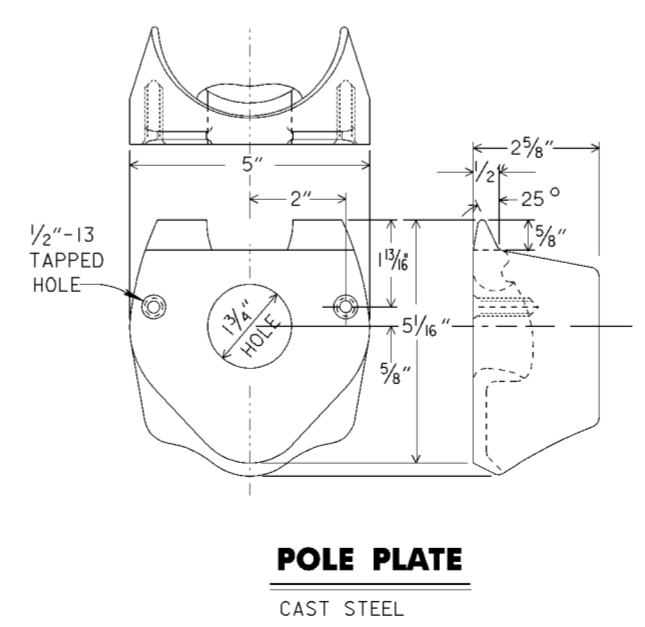
**POLE TOP AND BRACKET ARM ASSEMBLIES**



**LIGHT POLE LABELS FOR CIRCUIT IDENTIFICATION**  
(SEE NOTE 3)



**BRACKET ARM PLATE**  
(CAST STEEL)



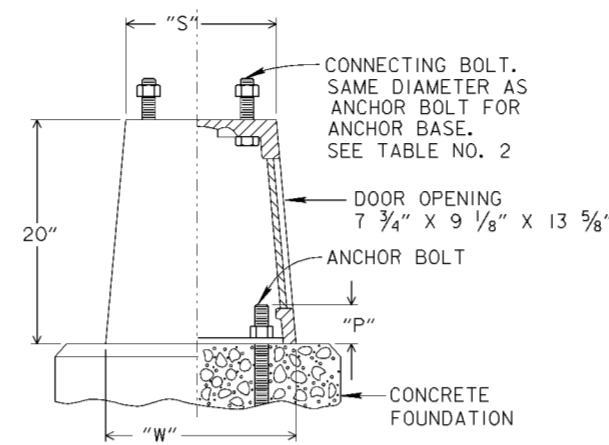
**POLE PLATE**  
CAST STEEL

**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.

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPL, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>R.TACKETT</b>	SCOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B
Drawn by: <b>T.FAHERTY</b>	<b>ROADWAY LIGHTING</b> <b>DETAILS (2 OF 5)</b>
Checked by: <b>R.TACKETT</b>	Scale: <b>NONE</b> Date: <b>OCTOBER 2000</b> Drawing Code: <b>016-PWC-13</b>
Reviewed by:	Sheet reference number: <b>93/4</b> FILENAME: 00usdi02.dgn PEN TABLE:
Approved by:	Sheet <b>2</b> of <b>5</b>



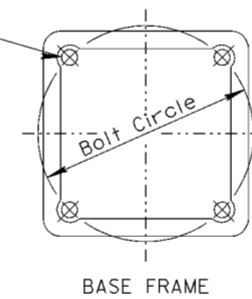
**NOTES**

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" ∅ X 40 3/4"
7"			
7.5"			
8"			
8.5"			
9"			
9.5"	1/4" ∅ X 48"	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

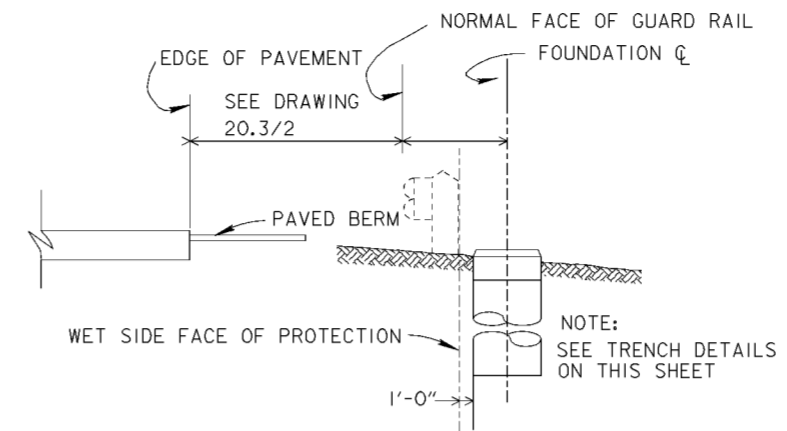
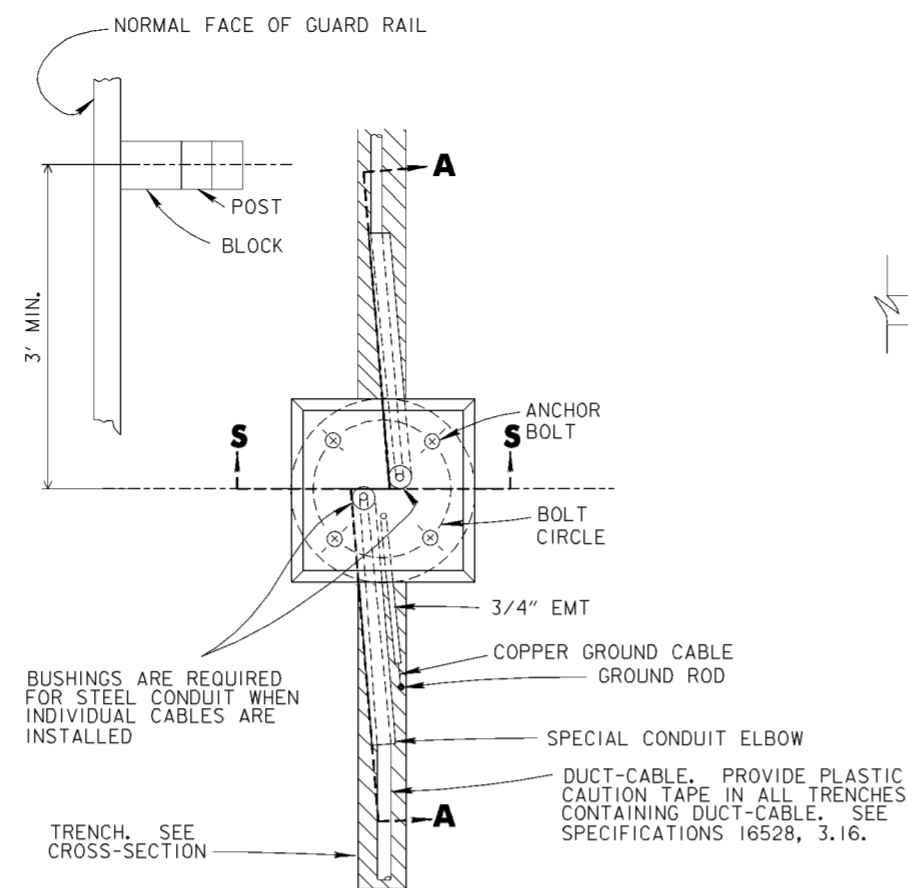
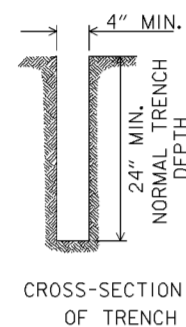


**CAST ALUMINUM TRANSFORMER BASES**

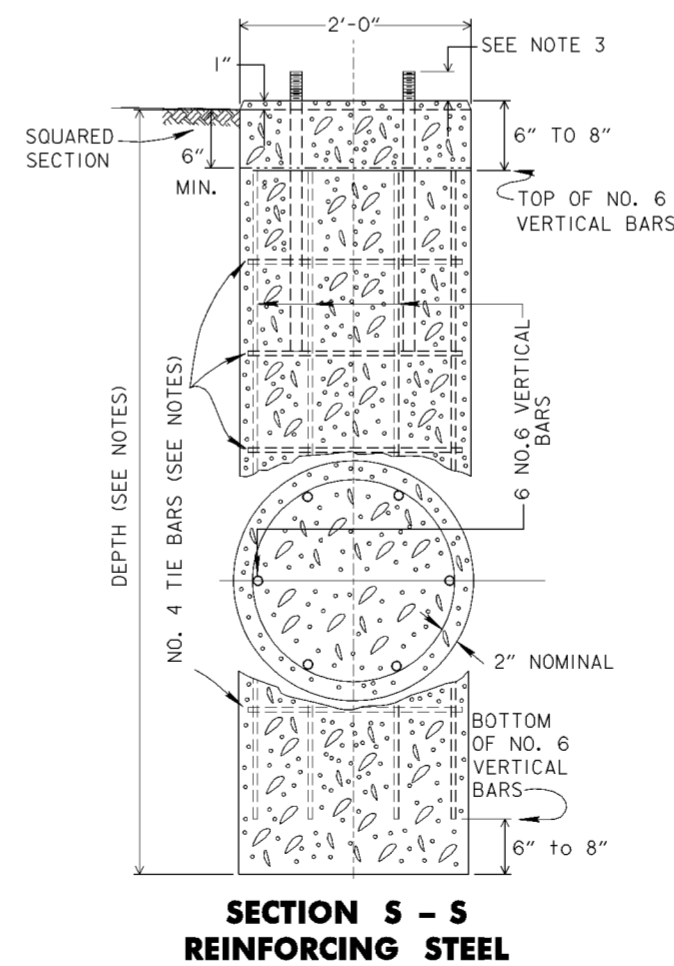
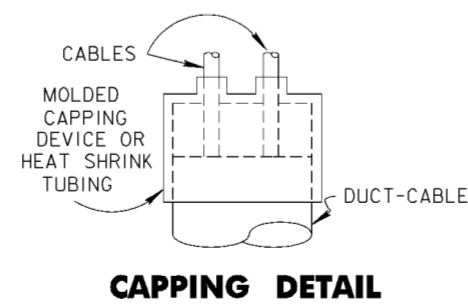
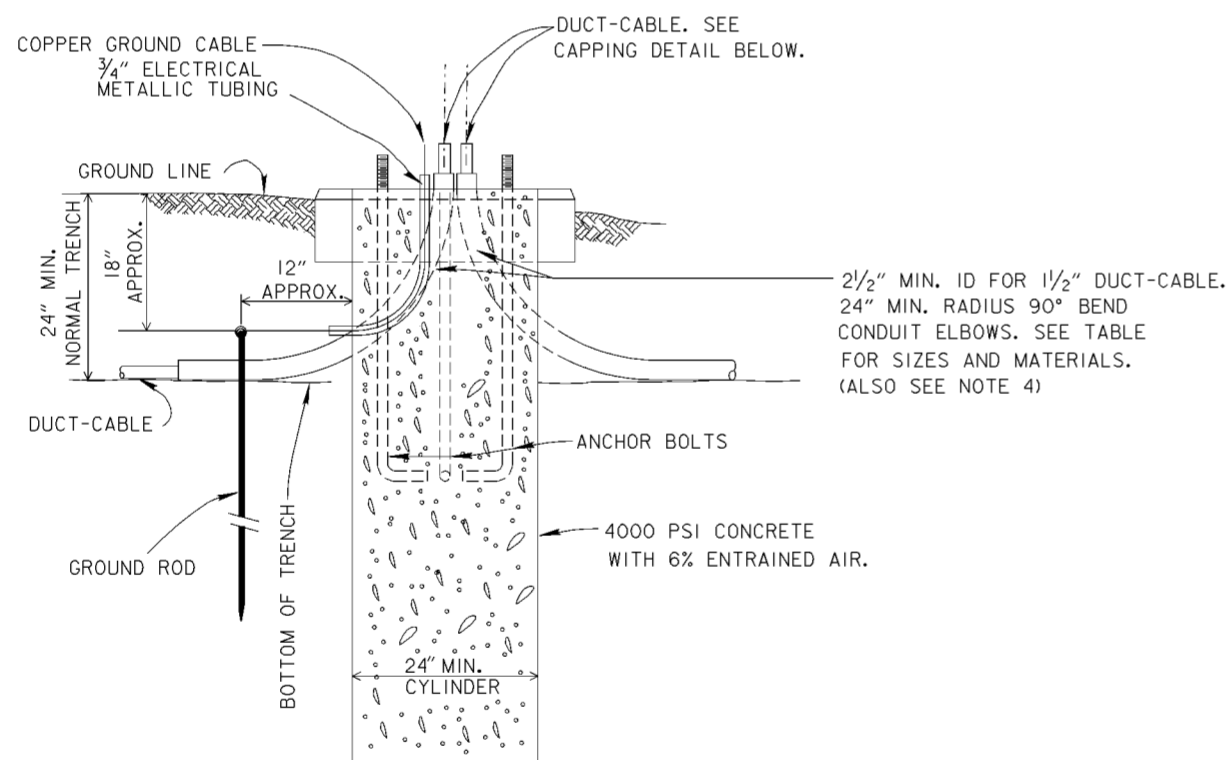
Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO	<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA
Designed by: <b>R.TACKETT</b>	 <b>SCIOTO RIVER</b> <b>COLUMBUS, OHIO</b> <b>WEST COLUMBUS, L.P.P.</b> <b>PHASE III B</b>
Drawn by: <b>T.FAHERTY</b>	
Checked by: <b>R.TACKETT</b>	
Reviewed by:	
Approved by:	<b>ROADWAY LIGHTING</b> <b>DETAILS (3 OF 5)</b>
Scale: <b>NONE</b>	Sheet reference number: <b>93/5</b>
Date: <b>OCTOBER 2000</b>	FILENAME: PEN TABLE: 00usd103.dgn
Drawing Code: <b>016-PWC-13</b>	Sheet <b>3</b> of <b>5</b>





- 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.



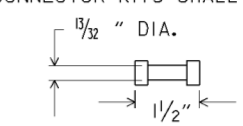
R=BENDING RADIUS S=STRAIGHT SECTION Y=R+S	SPECIAL CONDUIT ELBOWS 90° BENDS					
	2", 2 1/2" & 3" RGC			3" PVC		
	R	S	Y	R	S	Y
	24"	11"	35"	24"	8"	32"
	30"	11"	41"			
	36"	11"	47"	36"	2"	38"
	42"	12"	54"			
	48"	12"	60"			

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> <b>CORPS OF ENGINEERS</b> HUNTINGTON, WEST VIRGINIA	
Designed by: <b>R.TACKETT</b>		<b>ROADWAY LIGHTING</b> <b>DETAILS (4 OF 5)</b>	
Drawn by: <b>T.FAHERTY</b>			
Checked by: <b>R.TACKETT</b>			
Reviewed by:			
Approved by:	Scale: <b>NONE</b>	Sheet reference number: <b>93/6</b>	FILENAME: PIN TABLE: <b>00usdi04.dgn</b>
	Date: <b>OCTOBER 2000</b>		
	Drawing Code: <b>016-PWC-13</b>		Sheet <b>4</b> of <b>5</b>

**NOTES**

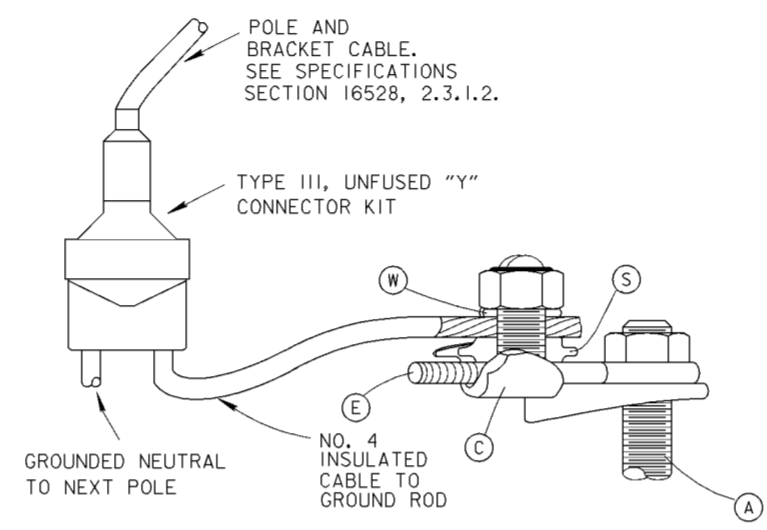
1. PROVIDE SUFFICIENT SLACK IN ALL CABLES TO PERMIT BRINGING KITS OUTSIDE OF POLE BASE THROUGH HANDHOLE OF ANCHOR BASE POLES OR DOOR IN TRANSFORMER BASE POLES.
2. FUSES FOR CONNECTOR KITS SHALL BE AS FOLLOWS:



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

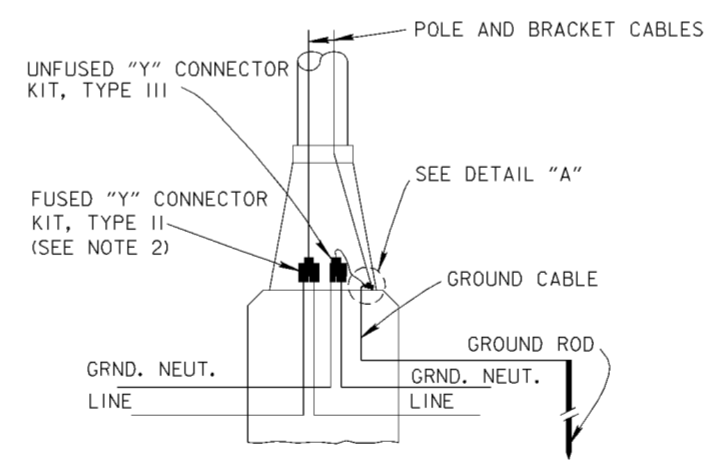
FUSES RATED 600 VOLTS AND 10 AMPERES, MINIMUM SHALL BE USED UNLESS OTHERWISE SPECIFIED.

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**

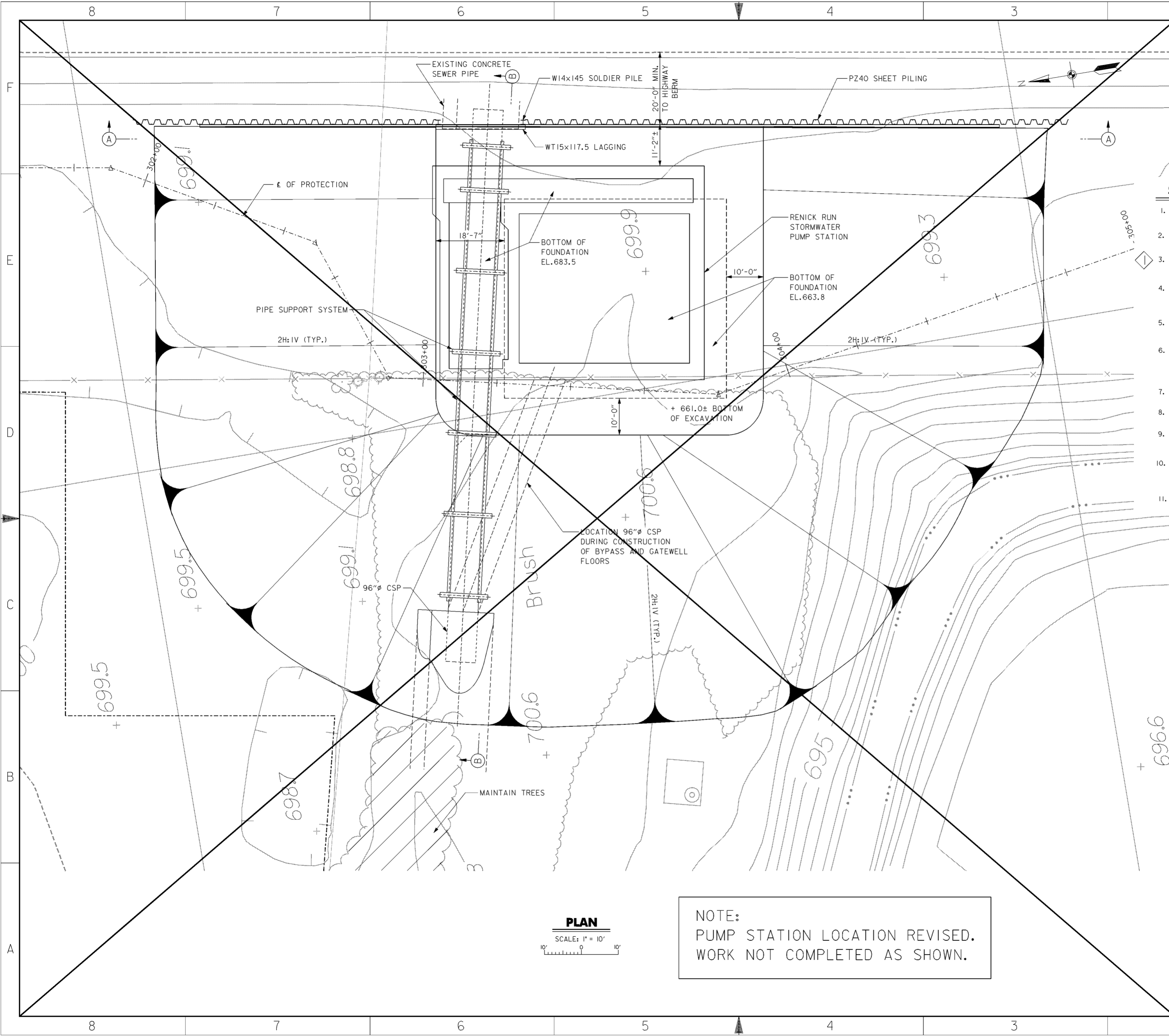
**LEGEND OF ITEMS COMMON TO DETAIL "A"**

- (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

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
Designed by: <b>R.TACKETT</b>		<b>ROADWAY LIGHTING</b> <b>DETAILS (5 OF 5)</b>	
Drawn by: <b>T.FAHERTY</b>			
Checked by: <b>R.TACKETT</b>			
Reviewed by:			
Approved by:	Scale: <b>NONE</b>	Sheet reference number: <b>93/7</b>	FILENAME: PIN TABLE: 00usdi05.dgn
	Date: <b>OCTOBER 2000</b>	Drawing Code: <b>016-PWC-13</b>	Sheet <b>5</b> of <b>5</b>



**DIVERSION PIPE SUGGESTED CONSTRUCTION SEQUENCE**

1. EXCAVATE TO EL. 690.0± AND REMOVE TOP HALF OF EXISTING 120" X 111" CONCRETE STORM SEWER.
2. WITH STEEL BANDS INSTALLED, PLACE 96"Ø CORRUGATED STEEL PIPE INSIDE THE BOTTOM PORTION OF EXISTING STORM SEWER.
3. DRILL 30"Ø HOLES AND INSTALL HP 14x117 PILES FOR PIPE SUPPORT SYSTEM BY GROUTING THE PILES INTO ROCK. HP 14x117 SHALL BE PLACED TO MISS SUMP WALL CONSTRUCTION.
4. AFTER PILE GROUT HAS CURED, INSTALL HP 14x117 PIPE SUPPORT BEAMS ACROSS THE PILES, HP 10x57 PIPE SUPPORT STRINGERS BETWEEN THE PIPE SUPPORT BEAMS, AND THREADED BAR HANGER ASSEMBLIES.
5. ADJUST PIPE ELEVATION WITH TURNBUCKLES AS REQUIRED AND REMOVE BOTTOM HALF OF EXISTING 120"x111" STORM SEWER. CONTINUE EXCAVATION TO ROCK.
6. PLACE SELECT GRANULAR FILL, CONSTRUCT SUMP BASE AND PART OF SUMP WALLS. CONCRETE SHALL BE PLACED IN THE SOUTH SUMP WALL AND THE WEST SUMP WALL TO ELEVATION 687.41. CONCRETE SHALL BE PLACED IN THE NORTH SUMP WALL AND THE EAST SUMP WALL TO ELEVATION 683.5.
7. BACKFILL AROUND THE SUMP CHAMBER TO TOPS OF THE CONSTRUCTED SUMP WALLS.
8. MOVE DIVERSION PIPE TO THE SUMP CHAMBER TO FACILITATE PUMPING OF STORM RUNOFF DURING CONSTRUCTION OF BYPASS AND GATEWELL.
9. REMOVE DIVERSION PIPE SUPPORT SYSTEM AND CONSTRUCT BYPASS AND GATEWELL TO C.J. ELEVATION 698.1. PROVIDE TEMPORARY BULKHEADS FOR THE 84" RCP AND 12' X 8' SLUICE GATE OPENINGS.
10. CONNECT GATEWELL TO EXISTING STORM SEWER BY INSTALLING 108" RCP AS SHOWN ON DWG. 51.1/7. REMOVE DIVERSION PIPE AND INSTALL PERMANENT 108" RCP FROM EXISTING STORM SEWER TO PUMP STATION BYPASS. CONTINUE CONSTRUCTION OF PUMP STATION.
11. CARE OF WATER AND DIVERSION PLAN SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF DIVERSION PIPE.

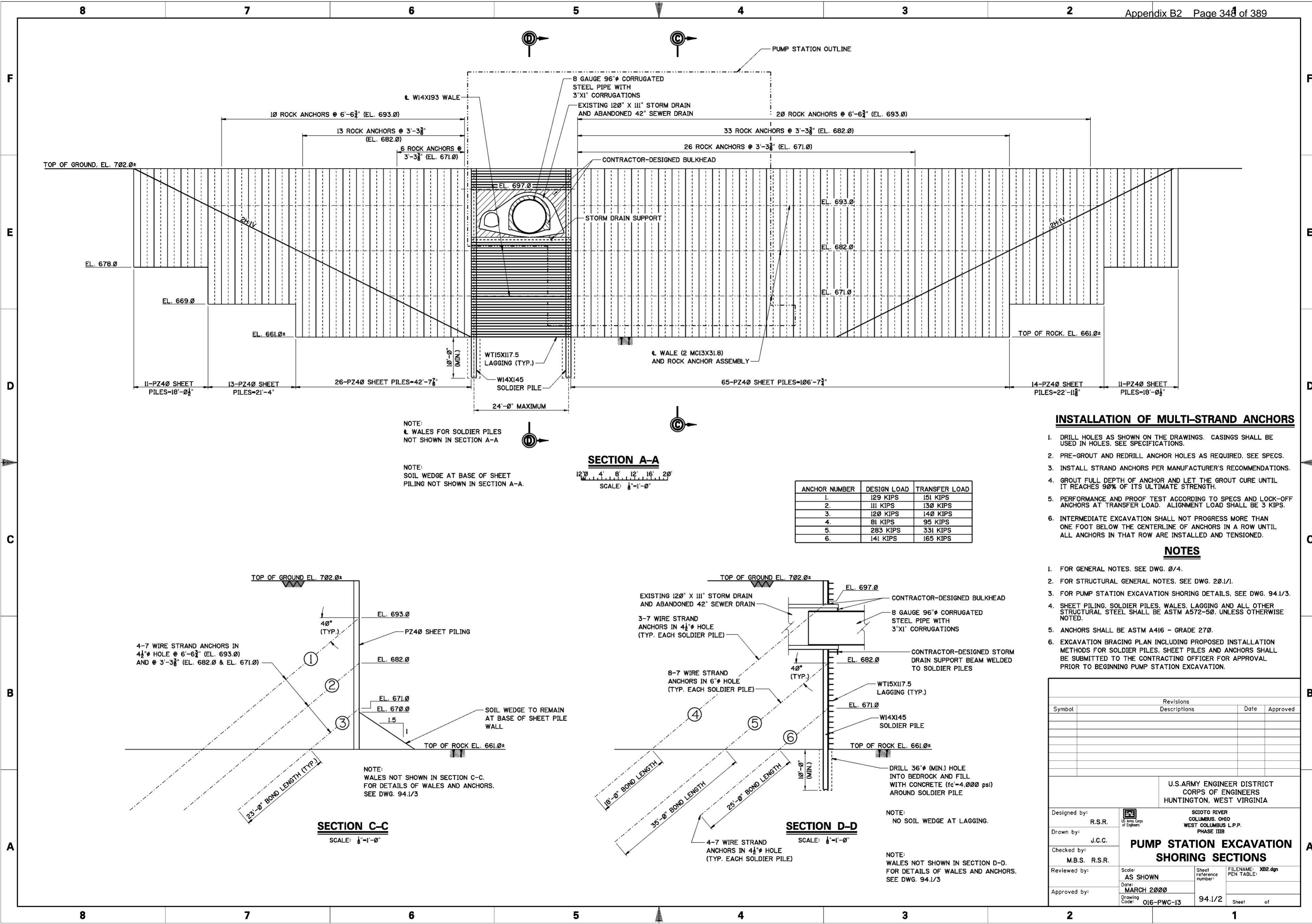
**NOTES**

1. FOR SECTIONS A-A AND B-B, SEE DRAWING NOS. 94.1/2 AND 94.1/4.
2. EXISTING 78" SCIOTO MAIN AND 48" WEST SIDE RELIEF SEWERS NOT SHOWN. SEE DRAWING NO. 15.3/1 FOR ABANDONMENT AND REMOVAL OF THESE SEWERS.

**PLAN**  
SCALE: 1" = 10'

NOTE:  
PUMP STATION LOCATION REVISED.  
WORK NOT COMPLETED AS SHOWN.

Revisions			
Symbol	Descriptions	Date	Approved
◊ REV. IN ACCORDANCE WITH AMENDMENT NO. 0008 2/02/01 P.O.C.			
<b>BURGESS &amp; NIPLE, LIMITED COLUMBUS, OHIO</b>		<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>	
Designed by:	J. HALL	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Drawn by:	T. MULLINS		
Checked by:	P. CONROY	<b>PUMP STATION SHORING AND STORM DRAIN DIVERSION PLAN</b>	
Reviewed by:			
Approved by:		Scale:	AS SHOWN
		Date:	OCTOBER 2000
		Drawing Code:	016-PWC-13
		Sheet reference number:	94.1/1
		FILENAME:	01exp101.dgn
		PIN TABLE:	
		Sheet	1 of 1



NOTE:  
 WALE FOR SOLDIER PILES  
 NOT SHOWN IN SECTION A-A

NOTE:  
 SOIL WEDGE AT BASE OF SHEET  
 PILING NOT SHOWN IN SECTION A-A.

**SECTION A-A**  
 SCALE: 1/8"=1'-0"

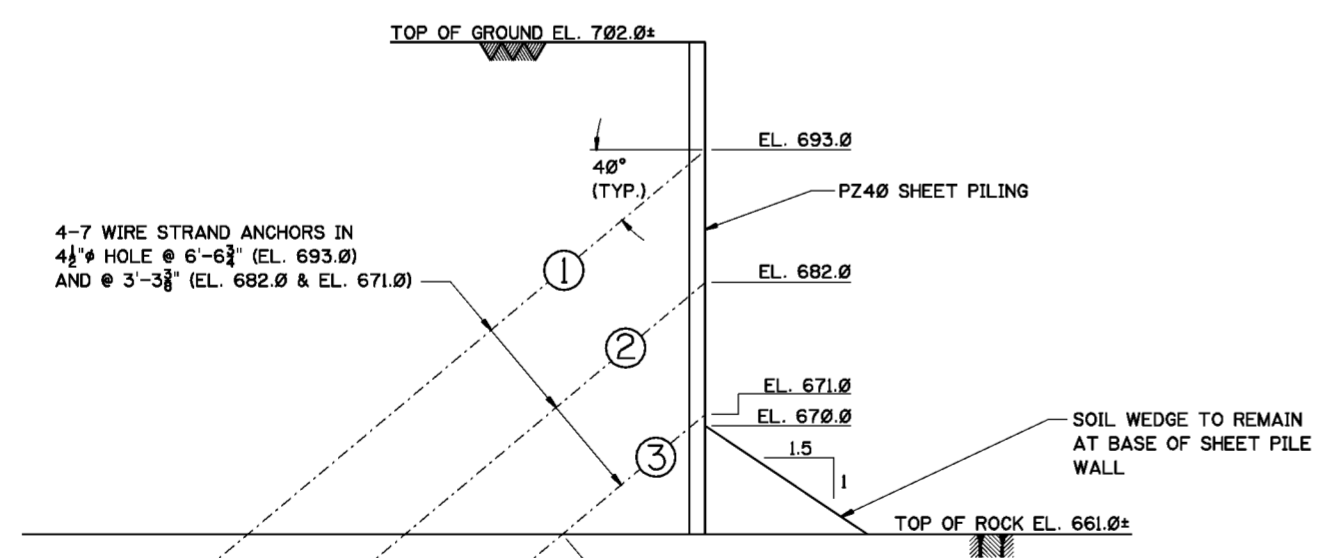
ANCHOR NUMBER	DESIGN LOAD	TRANSFER LOAD
1.	129 KIPS	151 KIPS
2.	111 KIPS	130 KIPS
3.	120 KIPS	140 KIPS
4.	81 KIPS	95 KIPS
5.	283 KIPS	331 KIPS
6.	141 KIPS	165 KIPS

**INSTALLATION OF MULTI-STRAND ANCHORS**

1. DRILL HOLES AS SHOWN ON THE DRAWINGS. CASINGS SHALL BE USED IN HOLES. SEE SPECIFICATIONS.
2. PRE-GROUT AND REDRILL ANCHOR HOLES AS REQUIRED. SEE SPECS.
3. INSTALL STRAND ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.
4. GROUT FULL DEPTH OF ANCHOR AND LET THE GROUT CURE UNTIL IT REACHES 90% OF ITS ULTIMATE STRENGTH.
5. PERFORMANCE AND PROOF TEST ACCORDING TO SPECS AND LOCK-OFF ANCHORS AT TRANSFER LOAD. ALIGNMENT LOAD SHALL BE 3 KIPS.
6. INTERMEDIATE EXCAVATION SHALL NOT PROGRESS MORE THAN ONE FOOT BELOW THE CENTERLINE OF ANCHORS IN A ROW UNTIL ALL ANCHORS IN THAT ROW ARE INSTALLED AND TENSIONED.

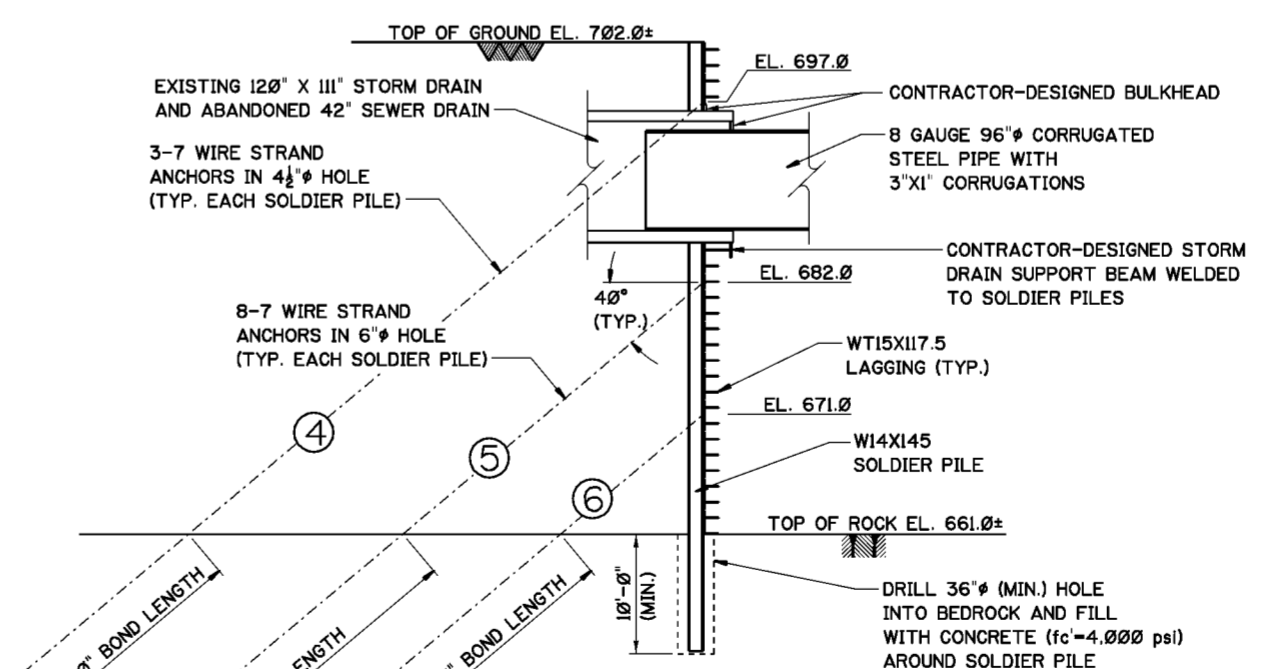
**NOTES**

1. FOR GENERAL NOTES, SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1.
3. FOR PUMP STATION EXCAVATION SHORING DETAILS, SEE DWG. 94.1/3.
4. SHEET PILING, SOLDIER PILES, WALES, LAGGING AND ALL OTHER STRUCTURAL STEEL SHALL BE ASTM A572-50, UNLESS OTHERWISE NOTED.
5. ANCHORS SHALL BE ASTM A416 - GRADE 270.
6. EXCAVATION BRACING PLAN INCLUDING PROPOSED INSTALLATION METHODS FOR SOLDIER PILES, SHEET PILES AND ANCHORS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL PRIOR TO BEGINNING PUMP STATION EXCAVATION.



**SECTION C-C**  
 SCALE: 1/8"=1'-0"

NOTE:  
 WALES NOT SHOWN IN SECTION C-C.  
 FOR DETAILS OF WALES AND ANCHORS,  
 SEE DWG. 94.1/3



**SECTION D-D**  
 SCALE: 1/8"=1'-0"

NOTE:  
 NO SOIL WEDGE AT LAGGING.

NOTE:  
 WALES NOT SHOWN IN SECTION D-D.  
 FOR DETAILS OF WALES AND ANCHORS,  
 SEE DWG. 94.1/3

Revisions			
Symbol	Descriptions	Date	Approved

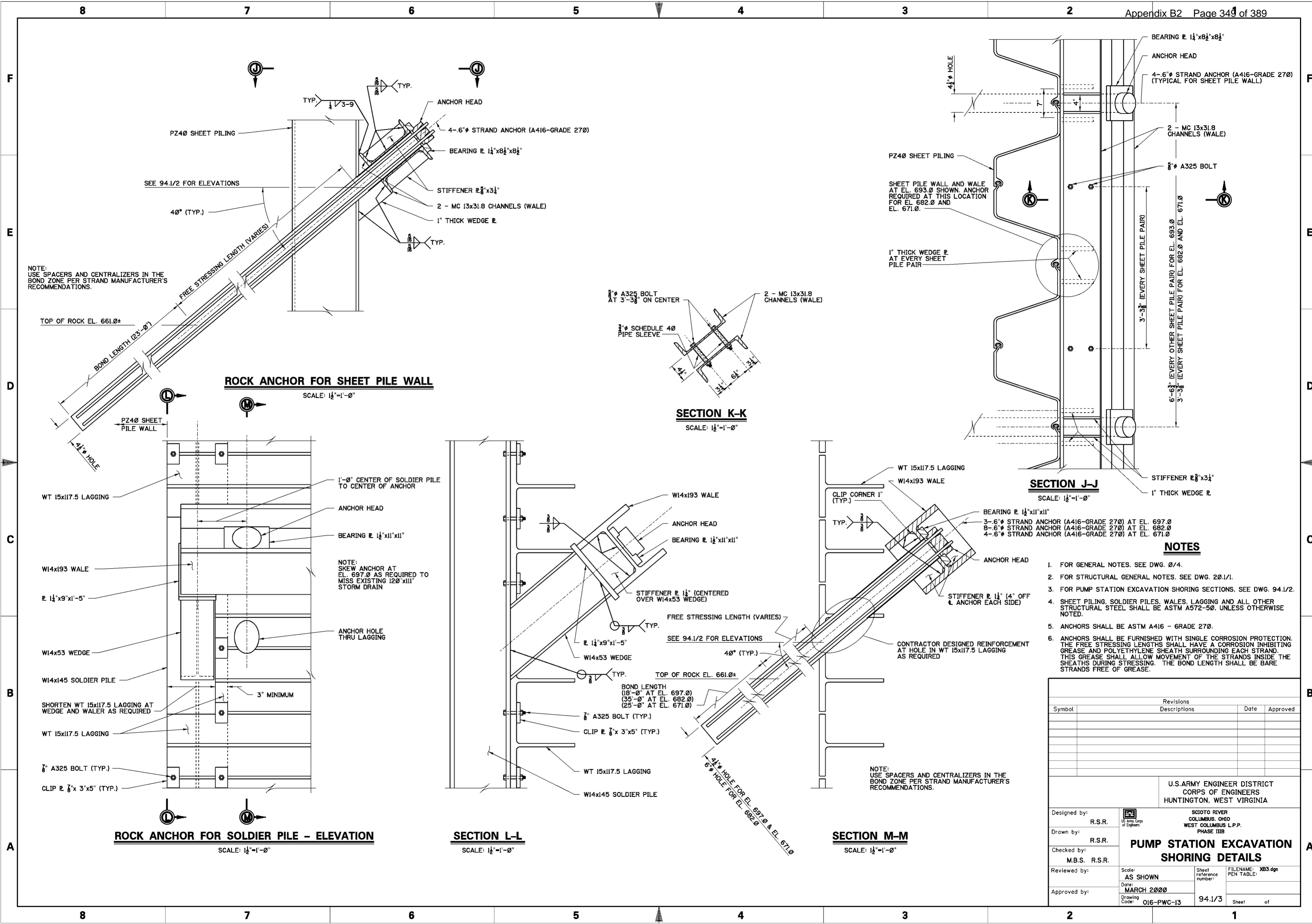
U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 HUNTINGTON, WEST VIRGINIA

Designed by: R.S.R.  
 Drawn by: J.C.C.  
 Checked by: M.B.S. R.S.R.  
 Reviewed by: AS SHOWN  
 Date: MARCH 2000  
 Drawing Code: O16-PWC-13

SCOTIO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS L.P.P.  
 PHASE IIIB

**PUMP STATION EXCAVATION  
 SHORING SECTIONS**

Sheet reference number: 94.1/2  
 FILENAME: XB2.dgn  
 PEN TABLE:  
 Sheet of



NOTE: USE SPACERS AND CENTRALIZERS IN THE BOND ZONE PER STRAND MANUFACTURER'S RECOMMENDATIONS.

**ROCK ANCHOR FOR SHEET PILE WALL**

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

**SECTION K-K**

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

**SECTION J-J**

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

**ROCK ANCHOR FOR SOLDIER PILE - ELEVATION**

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

**SECTION L-L**

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

**SECTION M-M**

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

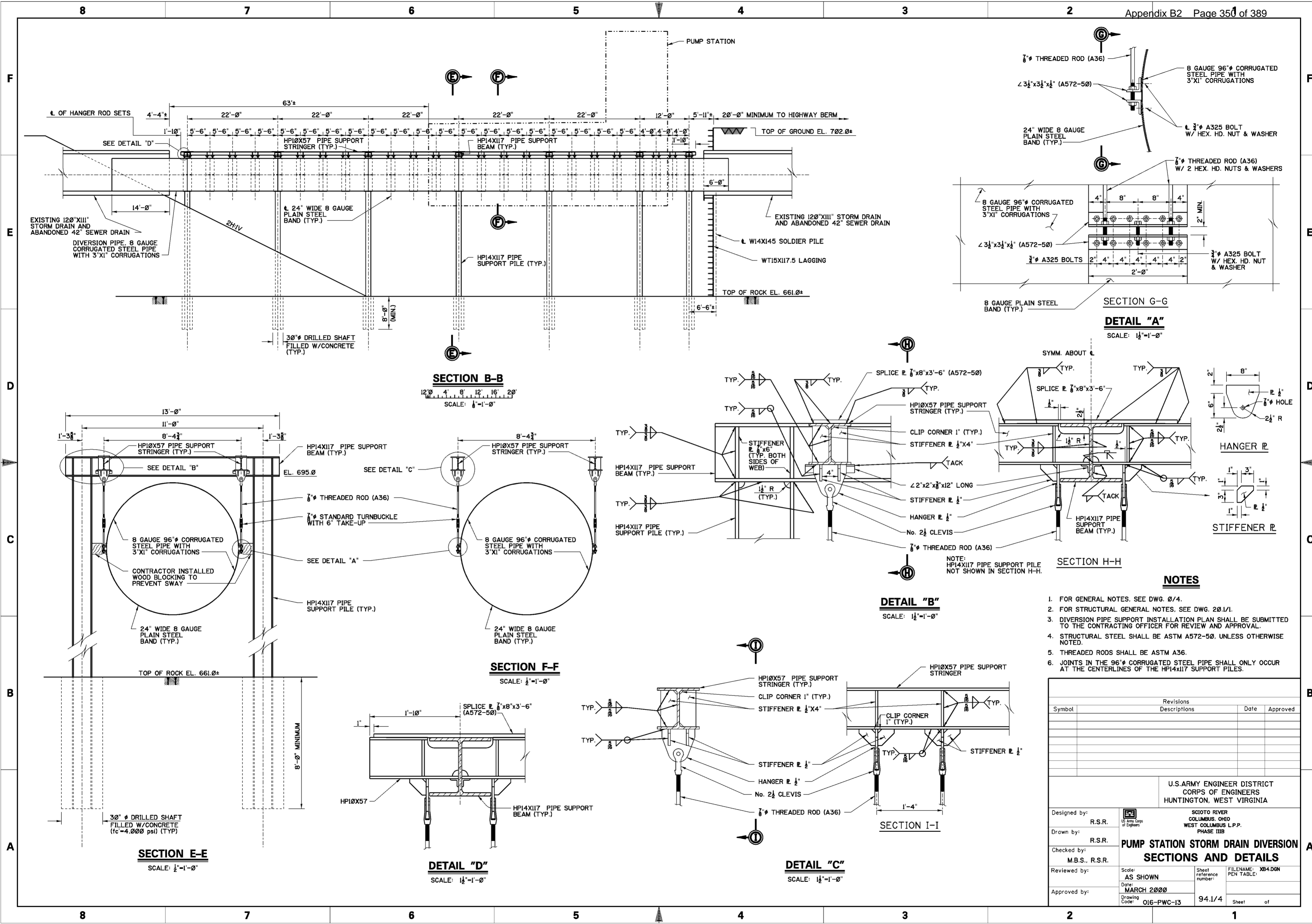
**NOTES**

1. FOR GENERAL NOTES. SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES. SEE DWG. 20.1/1.
3. FOR PUMP STATION EXCAVATION SHORING SECTIONS. SEE DWG. 94.1/2.
4. SHEET PILING, SOLDIER PILES, WALES, LAGGING AND ALL OTHER STRUCTURAL STEEL SHALL BE ASTM A572-50, UNLESS OTHERWISE NOTED.
5. ANCHORS SHALL BE ASTM A416 - GRADE 270.
6. ANCHORS SHALL BE FURNISHED WITH SINGLE CORROSION PROTECTION. THE FREE STRESSING LENGTHS SHALL HAVE A CORROSION INHIBITING GREASE AND POLYETHYLENE SHEATH SURROUNDING EACH STRAND. THIS GREASE SHALL ALLOW MOVEMENT OF THE STRANDS INSIDE THE SHEATHS DURING STRESSING. THE BOND LENGTH SHALL BE BARE STRANDS FREE OF GREASE.

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by:	R.S.R.	SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>PUMP STATION EXCAVATION                  SHORING DETAILS</b>	
Drawn by:	R.S.R.		
Checked by:	M.B.S. R.S.R.		
Reviewed by:	AS SHOWN		
Approved by:	MARCH 2000		
Scale:	AS SHOWN	Sheet reference number:	94.1/3
Drawing Code:	O16-PWC-13	FILENAME:	XB3.dgn
		PEN TABLE:	
		Sheet	of



**SECTION B-B**  
SCALE: 1/2"=1'-0"

**SECTION E-E**  
SCALE: 1/2"=1'-0"

**SECTION F-F**  
SCALE: 1/2"=1'-0"

**DETAIL "D"**  
SCALE: 1/2"=1'-0"

**DETAIL "B"**  
SCALE: 1/2"=1'-0"

**DETAIL "C"**  
SCALE: 1/2"=1'-0"

**DETAIL "A"**  
SCALE: 1/2"=1'-0"

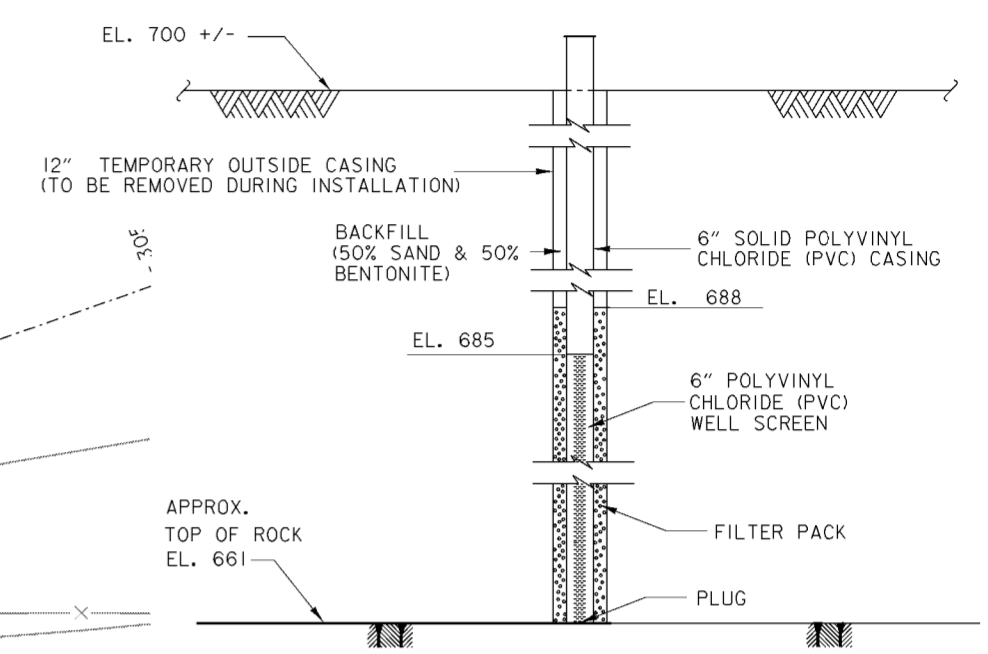
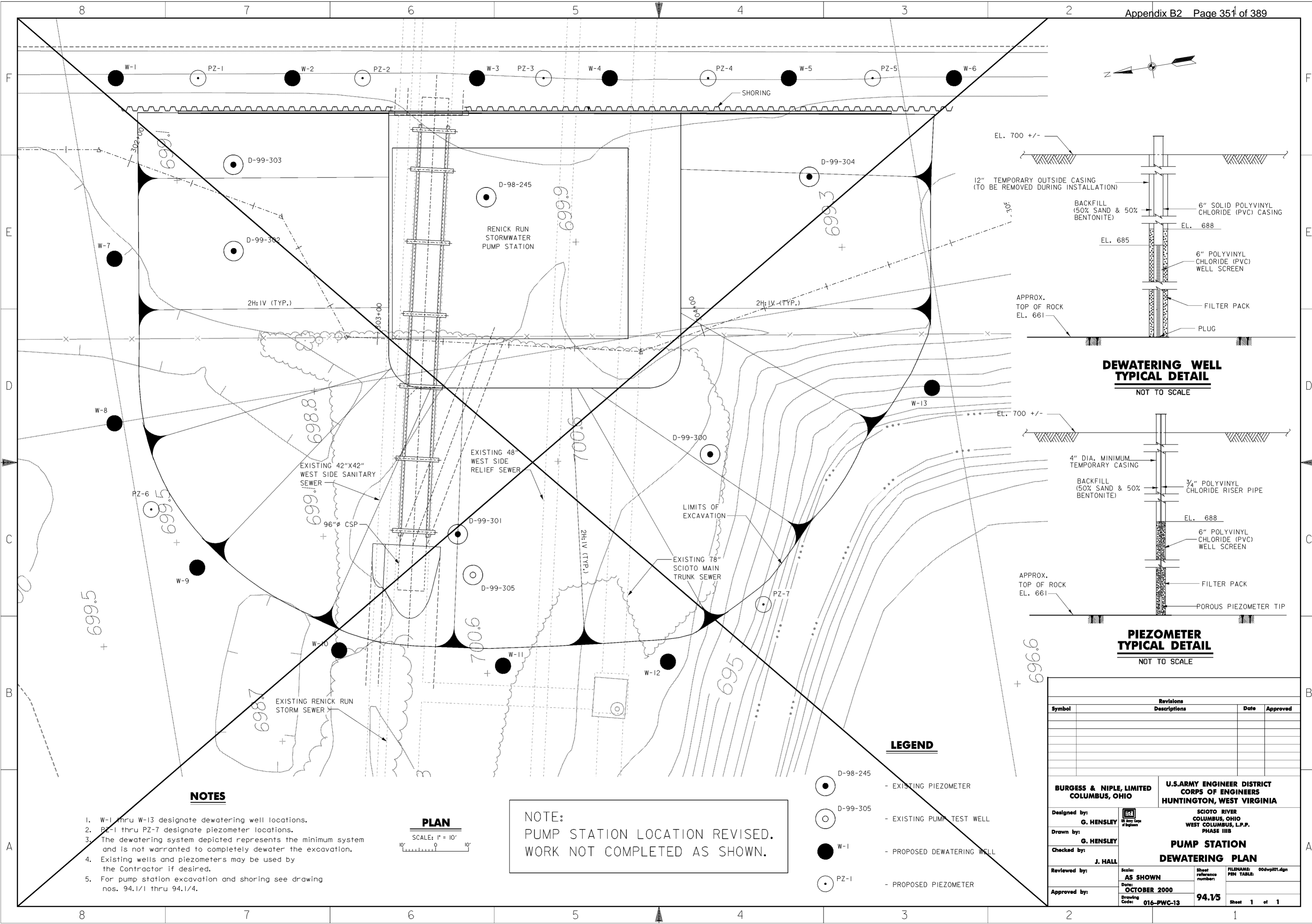
**NOTES**

1. FOR GENERAL NOTES, SEE DWG. 0/4.
2. FOR STRUCTURAL GENERAL NOTES, SEE DWG. 20.1/1.
3. DIVERSION PIPE SUPPORT INSTALLATION PLAN SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL.
4. STRUCTURAL STEEL SHALL BE ASTM A572-50, UNLESS OTHERWISE NOTED.
5. THREADED RODS SHALL BE ASTM A36.
6. JOINTS IN THE 96" CORRUGATED STEEL PIPE SHALL ONLY OCCUR AT THE CENTERLINES OF THE HPI4X17 SUPPORT PILES.

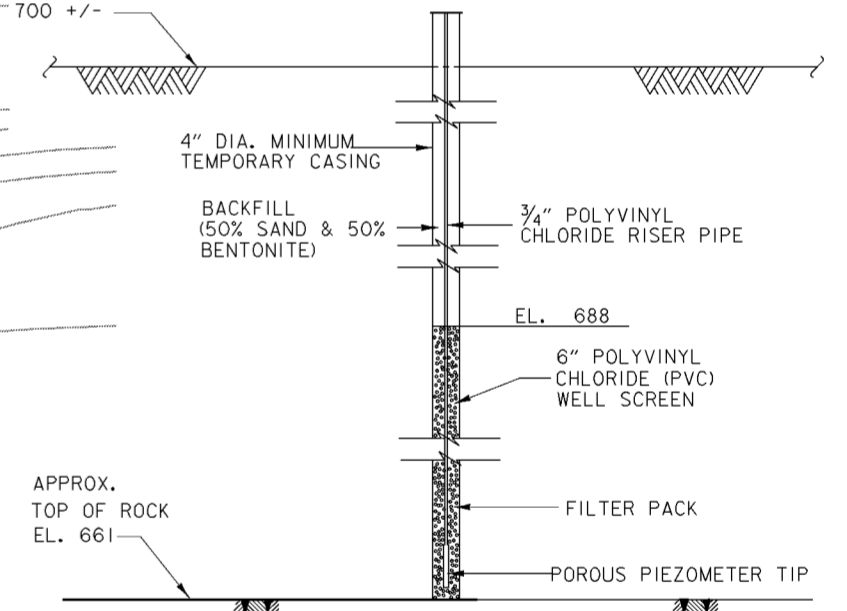
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: R.S.R.	 SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB	<b>PUMP STATION STORM DRAIN DIVERSION SECTIONS AND DETAILS</b>	
Drawn by: R.S.R.		Scale: AS SHOWN	Sheet reference number: 94.1/4
Checked by: M.B.S., R.S.R.		Date: MARCH 2000	FILENAME: PEN TABLE: XB4.DGN
Reviewed by:		Drawing Code: O16-PWC-13	Sheet of
Approved by:			



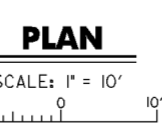
**DEWATERING WELL TYPICAL DETAIL**  
NOT TO SCALE



**PIEZOMETER TYPICAL DETAIL**  
NOT TO SCALE

**NOTES**

1. W-1 thru W-13 designate dewatering well locations.
2. PZ-1 thru PZ-7 designate piezometer locations.
3. The dewatering system depicted represents the minimum system and is not warranted to completely dewater the excavation.
4. Existing wells and piezometers may be used by the Contractor if desired.
5. For pump station excavation and shoring see drawing nos. 94.1/1 thru 94.1/4.



NOTE:  
PUMP STATION LOCATION REVISED.  
WORK NOT COMPLETED AS SHOWN.

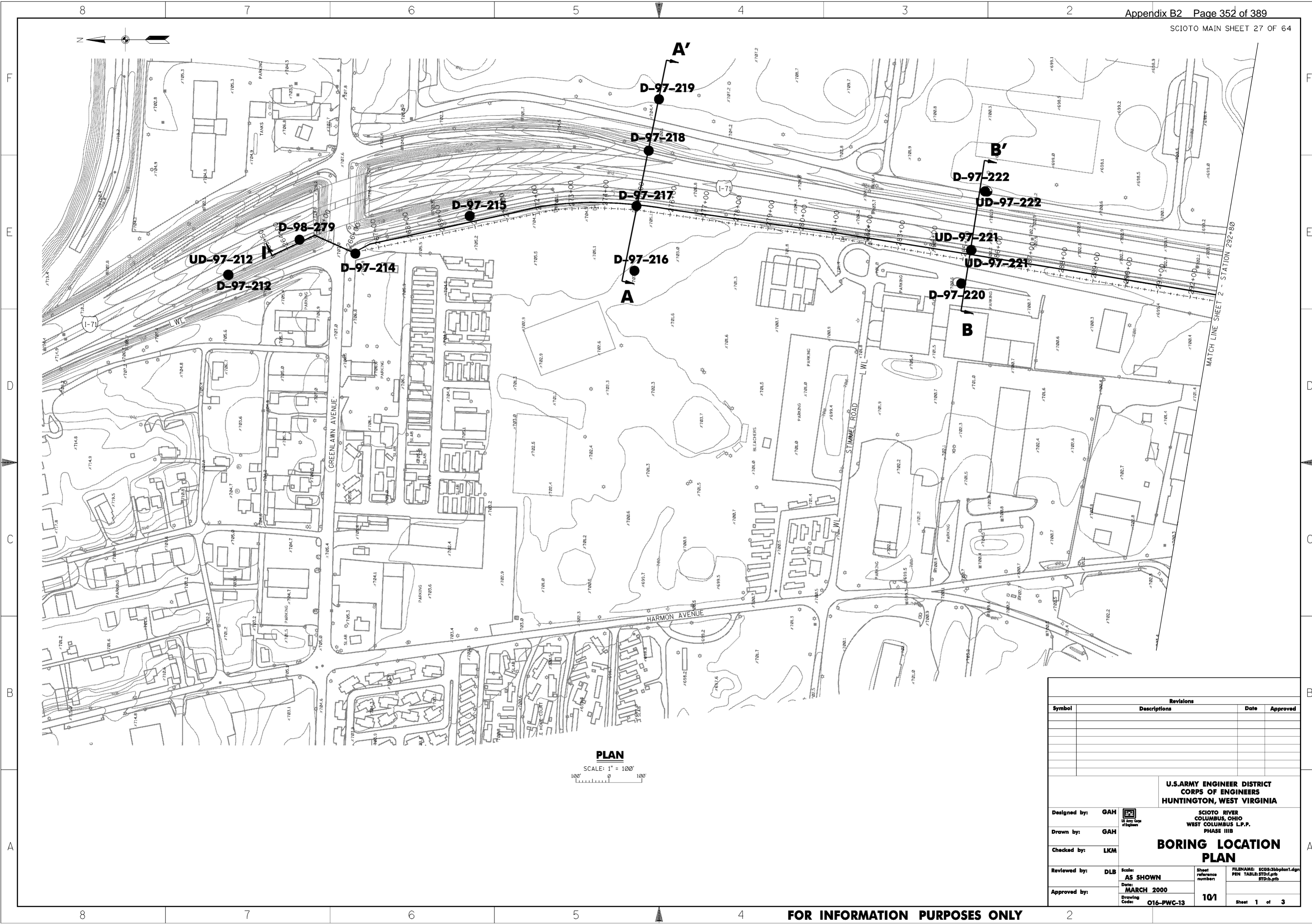
**LEGEND**

- D-98-245 - EXISTING PIEZOMETER
- D-99-305 - EXISTING PUMP TEST WELL
- W-1 - PROPOSED DEWATERING WELL
- PZ-1 - PROPOSED PIEZOMETER

Revisions			
Symbol	Descriptions	Date	Approved

<b>BURGESS &amp; NIPLE, LIMITED</b> COLUMBUS, OHIO		<b>U.S. ARMY ENGINEER DISTRICT</b> CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA	
		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B	
Designed by: <b>G. HENSLEY</b>	Drawn by: <b>G. HENSLEY</b>	Checked by: <b>J. HALL</b>	
Reviewed by:	Scale: <b>AS SHOWN</b>		
Approved by:	Date: <b>OCTOBER 2000</b>		
Drawing Code: <b>016-PWC-13</b>	Sheet reference number: <b>94.15</b>	FILENAME: 00dwp101.dgn	PEN TABLE: Sheet 1 of 1



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

Revisions			
Symbol	Descriptions	Date	Approved

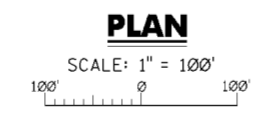
  

<b>U.S. ARMY ENGINEER DISTRICT                  CORPS OF ENGINEERS                  HUNTINGTON, WEST VIRGINIA</b>			
<b>SCIOTO RIVER                  COLUMBUS, OHIO                  WEST COLUMBUS L.P.P.                  PHASE IIIB</b>			
<b>BORING LOCATION                  PLAN</b>			
Designed by: GAH Drawn by: GAH Checked by: LKM Reviewed by: DLB Approved by:	Scale: AS SHOWN Date: MARCH 2000 Drawing Code: O16-PWC-13	Sheet reference number: 101	FILENAME: ECG93bbplan1.dgn PEN TABLE: STD1.plt STD1b.plt Sheet 1 of 3

FOR INFORMATION PURPOSES ONLY

WORK AS CONSTRUCTED





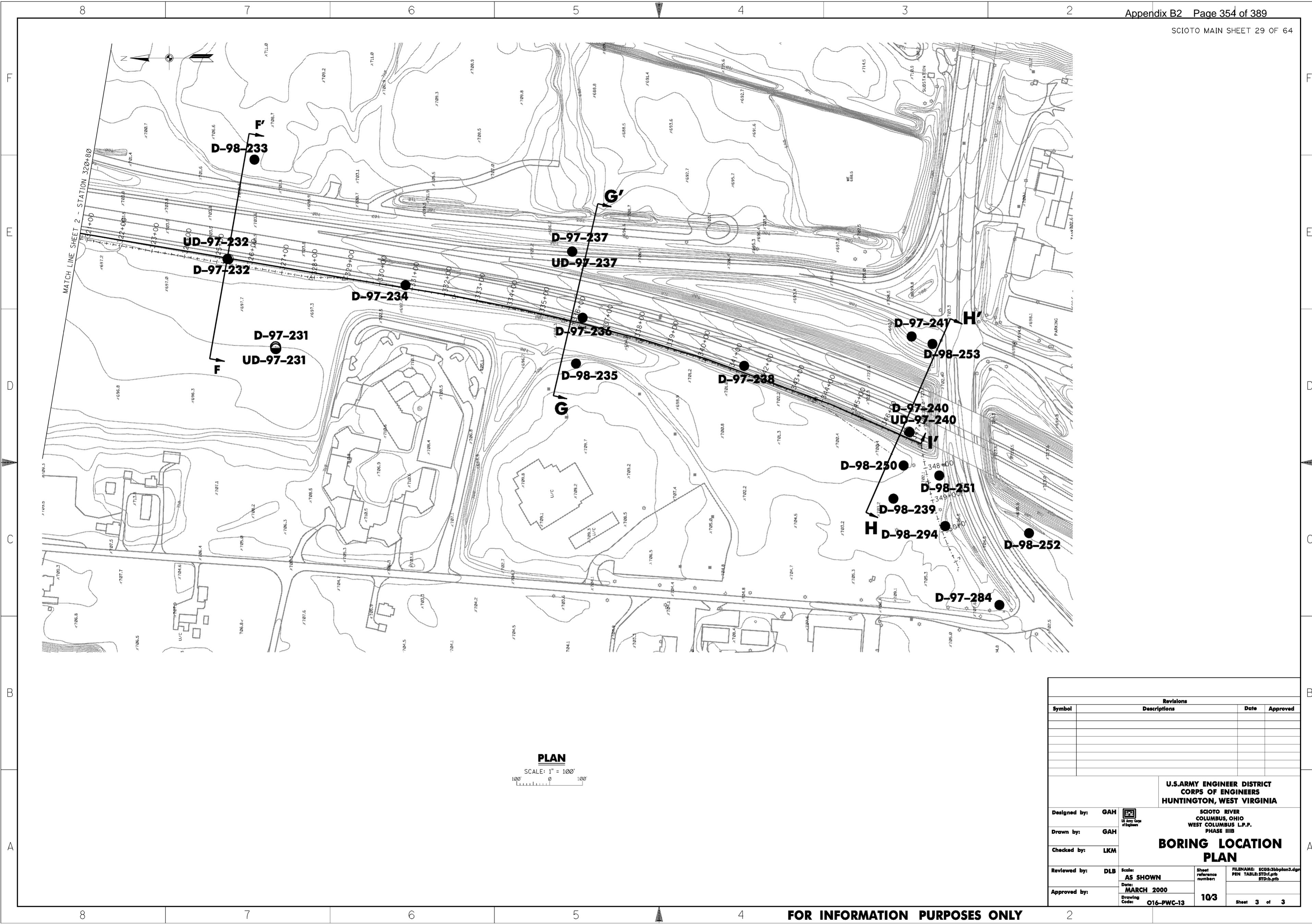
Revisions			
Symbol	Descriptions	Date	Approved

<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>			
Designed by: <b>GAH</b> Drawn by: <b>GAH</b> Checked by: <b>LKM</b> Reviewed by: <b>DLB</b> Approved by:	 SCIO TO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>BORING LOCATION PLAN</b>	Scale: <b>AS SHOWN</b> Date: <b>MARCH 2000</b> Drawing Code: <b>O16-PWC-13</b>	Sheet reference number: <b>10/2</b> FILENAME: ECG03bbplan2.dwg PEN TABLE: STD1.pfb STD1b.pfb Sheet <b>2</b> of <b>3</b>

FOR INFORMATION PURPOSES ONLY

WORK AS CONSTRUCTED



Revisions			
Symbol	Descriptions	Date	Approved

<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>			
SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB			
<b>BORING LOCATION PLAN</b>			
Designed by: GAH Drawn by: GAH Checked by: LKM Reviewed by: DLB Approved by:	Scale: AS SHOWN Date: MARCH 2000 Drawing Code: O16-PWC-13	Sheet reference number: 10/3	FILENAME: EC09:3bbplan3.dgn PEN TABLE: STD1.plt STD1b.plt Sheet 3 of 3

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

**FOR INFORMATION PURPOSES ONLY**

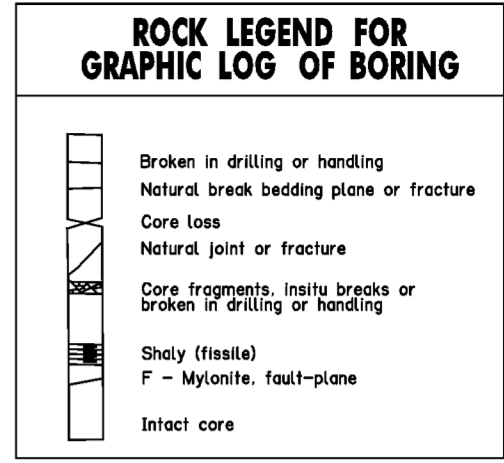
**WORK AS CONSTRUCTED**

UNIFIED SOIL CLASSIFICATION

Including Identification and Description

Table with columns: MAJOR DIVISIONS, GROUP SYMBOLS, TYPICAL NAMES, FIELD IDENTIFICATION PROCEDURES, INFORMATION REQUIRED FOR DESCRIBING SOILS, LABORATORY CLASSIFICATION CRITERIA. Includes plasticity chart and text: 'Use grain-size curve in identifying the fractions as given under field conditions.'

ROCK LEGEND FOR GRAPHIC LOG OF BORING. Table with columns: NAME, ABBREVIATION. Lists: SANDSTONE (SS), CONGLOMERATE (CONG), SHALE (SH), SILTSTONE (SLS), CLAYSTONE (CLS), LIMESTONE (LS), COAL (C), INDURATED CLAY (ICL), DOLOMITE (DO), ORTHOQUARTZITE (OO), CONCRETE (CON).



GRAPHIC LOG OF BORING

Graphic log of boring for PROJECT BUFFALO CREEK DAM, PHASE 2. Includes: Core Size 4-Inch, Sampler 2" Split Spoon, Date Started 24 AUG 98, HOLE NO. D-98-52, Completed 28 AUG 98, Location coordinates, Plasticity Chart, and detailed log table with columns for ELEVATION, SYMBOL, R.S.E., DESCRIPTION OF MATERIALS, REMARKS OR TEST RESULTS, and various test parameters like W.C., L.L., P.L., and Gradation.

(1) Boundary classifications: Soils possessing characteristics of two groups are designated by combinations of group symbols. For example GW-GC, well-graded gravel-sand mixture with clay binder (2) All sieve sizes on this chart are U.S. standard. FIELD IDENTIFICATION PROCEDURES FOR FINE-GRAINED SOILS OR FRACTIONS. These procedures are to be performed on the minus No. 40 sieve size particles, approximately 1/64 in. for field classification purposes.

ABBREVIATIONS. Table listing various soil and geological terms and their abbreviations. Includes: angle, alternate(ly), amt., ang., approx., argillaceous, aren., asp., b., ba., bd., bdr., bfr., bk., bky., bkn., bl., bot., bou., bre., br., c., carb., cav., cbl., ch., cl., clay(ey), clob., cle., cont(ed)(ing), comp., con., conc., cong., cont., cr., crm., cst., cem., dc., di., dia., diag., dis., diss., dk., dn., dnp., ext., elem.

NUMBER AND TYPE OF EXPLORATIONS. Table with columns: CODE, YEAR, HOLE NO., DESIGNATION. Includes: C - 98 - 52 (Core hole in bedrock), D - 98 - 31 (Disturbed sample boring), UD - 98 - 31 (Undisturbed sample boring), A - 98 - 25 (Auger hole, hand or power auger, 2" to 24" diameter), TP - 98 - 15 (Test Pit in overburden), TT - 98 - 6 - 135 (Test Trench in overburden), UD - 98 - 39 (Undisturbed sample boring with Piezometer).

Adopted by the Corps of Engineers and Bureau of Reclamation, January 1952. DILATANCY (reaction to shaking). After removing particles larger than No. 40 sieve size, prepare a pat of moist soil with a volume of about one-half cubic inch. Add enough water if necessary to make the soil soft but not sticky.

Revisions table, U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA, GEOLOGY AND SOILS LEGEND, and project details: Designed by: LRR, Drawn by: DKJ, Checked by: GAH, Reviewed by: HSB, DLB, Approved by: MARCH 2000, Drawing Code: O16-PWC-13, Scale: 10/4, Sheet 1 of 1.





CORE SIZE VERTICAL PROJECT WEST COLUMBUS, PHASE IIIB SAMPLER 2" SPLITSPOON  
BATTER DIRECTION PROJECT WEST COLUMBUS, PHASE IIIB DROP 30"  
DATE 7 OCT 97 HOLE NO. D-97-226A  
STARTED 7 OCT 97  
COMPLETED 7 OCT 97

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS
700.0	SM		SILTY SAND (SM), dk. br., non pl., dry, f.g. to c.g. sand w/ occ. gravel, gross, bad odor	WCL 18.9 L 18.9 PL 18.9 PL 18.9 PL 18.9
697.0	GC		CLAYEY SANDY GRAVEL (GC), dk. br., dmp., f.g. to c.g. sand and gravel	WCL 15.5 L 15.5 PL 15.5 PL 15.5 PL 15.5
692.2	SC		GRAVELLY CLAYEY SAND (SC), dk. br., dmp., f.g. to c.g. sand and gravel	WCL 9.4 L 9.4 PL 9.4 PL 9.4 PL 9.4
690.0	SM		SILTY SANDY GRAVEL (SM), lt. gr., non pl., f.g. to c.g. sand and gravel	WCL 16.6 L 16.6 PL 16.6 PL 16.6 PL 16.6
689.7	NS		NO SAMPLE	
			HOLE ABANDONED MOVED TO D-97-226 (HIT CONCRETE SEWER LINE)	

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE NX VERTICAL PROJECT WEST COLUMBUS, PHASE IIIB SAMPLER 2" SPLITSPOON  
BATTER DIRECTION PROJECT WEST COLUMBUS, PHASE IIIB DROP 30"  
DATE 7 OCT 97 HOLE NO. D-97-226  
STARTED 7 OCT 97  
COMPLETED 9 OCT 97

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS
698.0	SC		SILTY CLAYEY SAND (SC), br., pl., dry, c.g. to f.g. sand w/ rts.	WCL 17.0 L 17.0 PL 17.0 PL 17.0 PL 17.0
695.6	CL		SANDY CLAY (CL), br., pl., dmp., w/ occ. f.g. gravel	WCL 18.3 L 18.3 PL 18.3 PL 18.3 PL 18.3
690.1	GC		CLAYEY SANDY GRAVEL (GC), lt. br., dmp., ve. sil. pl. @ EL. 692.8 - 692.5	WCL 12.0 L 12.0 PL 12.0 PL 12.0 PL 12.0
688.0	GP		CLAYEY SANDY GRAVEL (GP), br., wet, c.g. to f.g. ang. and rou. gravel	WCL 6.0 L 6.0 PL 6.0 PL 6.0 PL 6.0
687.4	GC		CLAYEY SAND (SP-SC), br., wet, c.g. to f.g. sand	WCL 12.9 L 12.9 PL 12.9 PL 12.9 PL 12.9
686.5	SC		CLAYEY SAND (SC), br., wet, m.g. to f.g. sand	WCL 6.4 L 6.4 PL 6.4 PL 6.4 PL 6.4
683.5	GC		CLAYEY SANDY GRAVEL (GC), gr., wet, c.g. to f.g. ang. gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
677.5	GP		GRAVEL (GP), gr., wet, c.g. to f.g. gravel w/ some silty sand	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
675.8	GP		CLAYEY SANDY GRAVEL (GP-GC), gr., wet, c.g. to f.g. gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
674.2	GP		GRAVELLY SANDY CLAY (CL), gr., pl., wet	WCL 23.7 L 23.7 PL 23.7 PL 23.7 PL 23.7
669.4	GC		SANDY CLAYEY GRAVEL (GC), gr., pl., wet	WCL 20.8 L 20.8 PL 20.8 PL 20.8 PL 20.8
668.2	GC		CLAYEY SAND (SC), gr., pl., wet, c.g. to f.g. sand w/ some gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
667.5	GC		CLAYEY SANDY GRAVEL (GC), gr., wet, ang. gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
661.9	LS		LIMESTONE: brownish gray, fine textured, moderately hard, laminated with numerous scattered chert nodules ranging in size from 0.05" - 0.1". Broken planes spaced at 0.2" - 1.9".	WCL 54 L 54 PL 54 PL 54 PL 54
656.8	LS		High angle, near vertical, open fractures, planar, and smooth from 660.8 - 660.6, 659.1 - 658.3.	WCL 91 L 91 PL 91 PL 91 PL 91
			POINT OF REFUSAL Cored cobbles with 15" loss from 664.7 - 662.2. Lost water 660.3 - 660.1	
			Probable top of rock at 662.2.	
			ROD LOSS	

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 2 SHEETS

CORE SIZE VERTICAL PROJECT WEST COLUMBUS, PHASE IIIB  
BATTER DIRECTION PROJECT WEST COLUMBUS, PHASE IIIB  
DATE 30 SEP 97 HOLE NO. D-97-226  
STARTED 30 SEP 97  
COMPLETED 1 OCT 97

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS
650.0	LS		LIMESTONE continued... spaced at 0.1"-1.2, occasional stylolites.	
			Vuggy plane break at 650.4.	
			BOTTOM OF HOLE	

\* ROCK STRUCTURAL ELEMENTS SHEET 2 OF 2 SHEETS

CORE SIZE VERTICAL PROJECT WEST COLUMBUS, PHASE IIIB SAMPLER 2" SPLITSPOON  
BATTER DIRECTION PROJECT WEST COLUMBUS, PHASE IIIB DROP 30"  
DATE 30 SEP 97 HOLE NO. D-97-227  
STARTED 30 SEP 97  
COMPLETED 1 OCT 97

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS
698.5	SC		GRAVELLY CLAYEY SAND (SC), br., pl., dmp. w/ rts.	WCL 12.2 L 12.2 PL 12.2 PL 12.2 PL 12.2
695.5	GC		SANDY CLAYEY GRAVEL (GC), br., pl., dmp., c.g. to f.g. gravel	WCL 15.3 L 15.3 PL 15.3 PL 15.3 PL 15.3
689.5	GC		CLAYEY SANDY GRAVEL (GC), br., wet, c.g. to f.g. gravel	WCL 12.9 L 12.9 PL 12.9 PL 12.9 PL 12.9
688.0	NS		NO SAMPLE - NO RECOVERY	
679.4	GC		CLAYEY SANDY GRAVEL (GC), br., wet, c.g. to f.g. gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
674.0	GP		GRAVELLY SANDY CLAY (CL), gr., pl., wet	WCL 7.0 L 7.0 PL 7.0 PL 7.0 PL 7.0
673.0	SM		GRAVELLY SILTY SAND (SM), gr.	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
672.5	GC		CLAYEY SANDY GRAVEL (GC), gr.	WCL 12 L 12 PL 12 PL 12 PL 12
670.0	SM		GRAVELLY SILTY SAND (SM), dk. gr.	WCL 49 L 49 PL 49 PL 49 PL 49
			BOTTOM OF HOLE	

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE VERTICAL PROJECT WEST COLUMBUS, PHASE IIIB SAMPLER 2" SPLITSPOON  
BATTER DIRECTION PROJECT WEST COLUMBUS, PHASE IIIB DROP 30"  
DATE 1 OCT 97 HOLE NO. D-97-228  
STARTED 1 OCT 97  
COMPLETED 1 OCT 97

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS
697.3	CL		SILTY SANDY CLAY (CL), br., pl., dry w/ occ. f.g. gravel and rts. (topsoil)	WCL 20.8 L 20.8 PL 20.8 PL 20.8 PL 20.8
696.3	SC		CLAYEY SAND (SC), gr., br., sil. pl., dry, c.g. to f.g. sand w/ occ. ro. and brick frags.	WCL 21.4 L 21.4 PL 21.4 PL 21.4 PL 21.4
688.9	GC		SILTY SANDY CLAY (CL), gr., br., pl., dmp. to mst.	WCL 21.4 L 21.4 PL 21.4 PL 21.4 PL 21.4
688.3	SC		SILTY CLAYEY SAND (SC), gr., pl., mst. w/ occ. f.g. gravel @ EL. 688.3 - 688.3	WCL 21.4 L 21.4 PL 21.4 PL 21.4 PL 21.4
685.3	GC		CLAYEY SANDY GRAVEL (GC), gr., ve. sil. pl., wet, c.g. to f.g. gravel	WCL 21.4 L 21.4 PL 21.4 PL 21.4 PL 21.4
			CLAYEY SANDY GRAVEL (GP-GC), gr., wet, c.g. to f.g. gravel w/ wood frags. EL. 685.3 - 682.3	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
671.8	GP		GRAVELLY SANDY CLAY (CL), gr., pl., wet	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
668.8	SC		GRAVELLY CLAYEY SAND (SC), gr., wet, c.g. to f.g. sand	WCL 23 L 23 PL 23 PL 23 PL 23
668.2	GC		CLAYEY SANDY GRAVEL (GP-GC), gr., wet, c.g. to f.g. gravel	WCL 23 L 23 PL 23 PL 23 PL 23
667.3	SC		CLAYEY SAND (SP-SC), gr., wet, c.g. to f.g. sand w/ occ. gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
			BOTTOM OF HOLE	

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE VERTICAL PROJECT WEST COLUMBUS, PHASE IIIB SAMPLER 2" SPLITSPOON  
BATTER DIRECTION PROJECT WEST COLUMBUS, PHASE IIIB DROP 30"  
DATE 2 OCT 97 HOLE NO. D-97-229  
STARTED 2 OCT 97  
COMPLETED 2 OCT 97

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS
700.0	SM		SILTY SAND (SM), br., non pl., c.g. to f.g. sand w/ rts. and occ. f.g. gravel	WCL 18.8 L 18.8 PL 18.8 PL 18.8 PL 18.8
699.8	CL		GRAVELLY SANDY CLAY (CL), br., pl., dry, c.g. to f.g. sand, c.g. to f.g. gravel w/ rts. and wood frags.	WCL 21.9 L 21.9 PL 21.9 PL 21.9 PL 21.9
697.8	CH		SANDY CLAY (CH), dk. br., pl., dmp., c.g. to f.g. sand w/ occ. c.g. to f.g. gravel	WCL 19.3 L 19.3 PL 19.3 PL 19.3 PL 19.3
696.3	CH		GRAVELLY SANDY CLAY (CH), dk. br., pl., dmp., c.g. to f.g. sand, c.g. to f.g. gravel	WCL 22.7 L 22.7 PL 22.7 PL 22.7 PL 22.7
694.5	CL		SILTY CLAY (CL), dk. br., pl., dmp.	WCL 28.4 L 28.4 PL 28.4 PL 28.4 PL 28.4
692.9	CL		SILTY SANDY CLAY (CL), dk. br., pl., dmp., f.g. sand	WCL 48.1 L 48.1 PL 48.1 PL 48.1 PL 48.1
689.9	SC		CLAYEY SAND (SC), br., pl., dmp., m.g. to f.g. sand sil. pl. @ EL. 690.7 - 689.9	WCL 17.2 L 17.2 PL 17.2 PL 17.2 PL 17.2
688.8	SP		CLAYEY SAND (SP-SC), br., ve. sil. pl., mst. m.g. to f.g. sand	WCL 21.2 L 21.2 PL 21.2 PL 21.2 PL 21.2
686.3	SC		CLAYEY SAND (SC), br., ve. sil. pl., mst. to wet, c.g. to f.g. sand w/ occ. f.g. gravel	WCL 16.8 L 16.8 PL 16.8 PL 16.8 PL 16.8
680.7	GC		CLAYEY SANDY GRAVEL (GC), br., wet, c.g. to f.g. sand, ang. and rou. gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
672.3	GP		GRAVELLY SANDY CLAY (CL), gr., pl., wet, c.g. to f.g. gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
671.9	GP		GRAVELLY SANDY CLAY (CL), gr., pl., wet, c.g. to f.g. gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
671.5	SM		SILTY SANDY CLAY (CL), gr., pl., wet	WCL 28.1 L 28.1 PL 28.1 PL 28.1 PL 28.1
666.3	GC		CLAYEY SANDY GRAVEL (GP-GC), br., wet, c.g. to f.g. gravel w/ occ. gravel @ EL. 667.8 - 664.8	WCL 37.8 L 37.8 PL 37.8 PL 37.8 PL 37.8
659.7	GP		CLAYEY SANDY GRAVEL (GP-GC), gr., wet, c.g. to f.g. gravel	WCL 59 L 59 PL 59 PL 59 PL 59
654.3	SM		GRAVELLY SILTY SAND (SM), gr., wet, c.g. to f.g. sand	WCL 14 L 14 PL 14 PL 14 PL 14
			BOTTOM OF HOLE	

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE NX VERTICAL PROJECT WEST COLUMBUS, PHASE IIIB SAMPLER 5" FIXED PISTON  
BATTER DIRECTION PROJECT WEST COLUMBUS, PHASE IIIB DROP HAMMER PUSHED  
DATE 21 OCT 97 HOLE NO. UD-97-229  
STARTED 21 OCT 97  
COMPLETED 21 OCT 97

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS
702.3	NS		DRILLING W/O SAMPLING	
699.3	NS		LEAN CLAY (CL), br., m. ht. pl., dry, hard, m. pl. w/ trace c.g. to f.g. sand	WCL 48 L 48 PL 48 PL 48 PL 48
698.4	CH		FAT CLAY (CH), dk. gr., br., ht. pl., mst., firm, m. toughness w/ trace c.g. to f.g. sand, sil. ang. odor	WCL 23 L 23 PL 23 PL 23 PL 23
697.0	NS		NO SAMPLE	
689.0	NS		DRILLING W/O SAMPLING	
689.0	CL		LEAN CLAY (CL), dk. br., m. pl., mst., firm, m. toughness w/ trace m.g. to f.g. sand	WCL 37 L 37 PL 37 PL 37 PL 37
692.3	CL		LEAN CLAY (CL), dk. br., m. pl., mst., firm, m. toughness w/ trace m.g. to f.g. sand @ EL. 692.84 - 692.34	WCL 35 L 35 PL 35 PL 35 PL 35
691.0	NS		NO SAMPLE	
			DRILLING W/O SAMPLING	
668.8	NS		DRILLING W/O SAMPLING	
667.1	CL		LEAN CLAY (CL), lt. and dk. gr., mol., m. pl., mst., ve. soft to soft, low toughness, low dry strength	WCL 24 L 24 PL 24 PL 24 PL 24
666.3	NS		NO SAMPLE	
			BOTTOM OF HOLE	

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE VERTICAL PROJECT WEST COLUMBUS, PHASE IIIB SAMPLER 2" SPLITSPOON  
BATTER DIRECTION PROJECT WEST COLUMBUS, PHASE IIIB DROP 30"  
DATE 30 SEP 97 HOLE NO. D-97-230  
STARTED 30 SEP 97  
COMPLETED 30 SEP 97

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS
696.5	ML		CLAYEY SILT (ML), bk. pl. w/ trace sand, rts., org. mat., strong odor	WCL 26.4 L 26.4 PL 26.4 PL 26.4 PL 26.4
691.7	CL		SILTY CLAY (CL), bk. pl., dmp. w/ trace sand @ EL. 695.8 - 693.5	WCL 25.6 L 25.6 PL 25.6 PL 25.6 PL 25.6
689.0	CL		SANDY CLAY (CL), br., pl., dmp. to mst.	WCL 20.8 L 20.8 PL 20.8 PL 20.8 PL 20.8
685.0	SC		CLAYEY SAND (SC), br., sil. pl., mst. to wet, c.g. to f.g. sand	WCL 24.3 L 24.3 PL 24.3 PL 24.3 PL 24.3
685.0	GM		SILTY SANDY GRAVEL (GM), br., non pl., wet, c.g. to f.g. rou. gravel	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
678.5	NS		broken ro. frags. @ EL. 683.0 - 678.5	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
677.0	NS		NO SAMPLE - NO RECOVERY	
676.0	GM		SILTY SANDY GRAVEL (GM), br., non pl., wet, c.g. to f.g. rou. gravel w/ broken ro. frags.	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
675.5	CL		SILTY CLAY (CL), br., pl., mst. gr. @ EL. 676.1 - 675.5	WCL F.W. L F.W. PL F.W. PL F.W. PL F.W.
674.0	SM		SILTY SAND (SM), gr., non pl., wet, f.g. sand	WCL 14 L 14 PL 14 PL 14 PL 14
671.8	CL		CLAY (CL), gr., pl., mst.	WCL 36.3 L 36.3 PL 36.3 PL 36.3 PL 36.3
669.5	CL		SILTY CLAY (CL), gr., pl., mst.	WCL 18.3 L 18.3 PL 18.3 PL 18.3 PL 18.3
666.5			BOTTOM OF HOLE	

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE VERTICAL PROJECT WEST COLUMBUS, PHASE IIIB SAMPLER 5" FIXED PISTON  
BATTER DIRECTION PROJECT WEST COLUMBUS, PHASE IIIB DROP HAMMER PUSHED  
DATE 22 OCT 97 HOLE NO. UD-97-230  
STARTED 22 OCT 97  
COMPLETED 22 OCT 97

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS
696.5	NS		DRILLING W/O SAMPLING	
695.0	NS		DRILLING W/O SAMPLING	
692.7	CH		FAT CLAY (CH), br. gr., ht. pl., dry, firm (brittle), m. toughness	WCL 60 L 60 PL 60 PL 60 PL 60
692.5	NS		NO SAMPLE	
			DRILLING W/O SAMPLING	
671.5	CL		LEAN CLAY (CL), lt. and dk. gr., mol., m. pl., mst., soft, low to m. toughness w/ trace f.g. sand, sil. org. odor	WCL 37 L 37 PL 37 PL 37 PL 37
669.2	NS		NO SAMPLE	
668.0	NS		LEAN CLAY (CL), gr. (with a few br. zones), m. pl., mst., soft to ve. soft @ EL. 668.29 - 667.79, m. toughness	WCL 36 L 36 PL 36 PL 36 PL 36
667.1	NS		NO SAMPLE	
666.5	NS		NO SAMPLE	
			BOTTOM OF HOLE	

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

Revisions

Symbol	Descriptions	Date	Approved

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

Designed by: GAH  
Drawn by: LRR  
Checked by: GAH  
Reviewed by: HSB  
Approved by: DLB

SCALE: AS SHOWN  
DATE: MARCH 2000  
DRAWING CODE: 016-PWC-13

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

**GRAPHIC LOGS  
OF BORINGS**

FILENAME: EC06logs.dgn  
PEN TABLE: STD.tbl  
STD.tbl

Sheet 3 of 8

**PROJECT WEST COLUMBUS, PHASE III B**  
**HOLE NO. D-97-231**

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS										
				W	C	L	L	P	L	PL	PL			
695.8														
692.3	CL		SILTY SANDY CLAY (CL) dk. br., pl., dmp., f. sand occ. gravel and rts. (topsoil) @ EL. 695.8 to 693.6	21.0										
689.8	CL		SANDY SILTY CLAY (CL) gr. br., pl., dmp., f. sand	25.0										
686.2			SILTY SANDY CLAY (CL) gr. br., pl., dmp., f. sand	23.9	33.7	18.1								
685.8			SANDY SILTY CLAY (CL) gr., pl., mst., c. sand	25.4										
681.7	GP-GM		SANDY SANDY GRAVEL (GP-GM), gr., wet, c. to f. rou. gravel	F.W.						57	33	10		
679.3	CL-ML		SANDY SILTY CLAY (CL-ML), gr., low pl., dmp., f. sand w/occ. gravel	15.2	21.2	16.9								
676.3	CL		GRAVELLY SANDY CLAY (CL) gr., pl., dmp., c. to f. sand											
671.4	GC-GM		CLAYEY SILTY GRAVEL (GC-GM), gr., sil. pl., dmp., c. to f. gravel	17.3	12.7									
670.3	GC		CLAYEY SANDY GRAVEL (GC), gr., sil. pl., wet, c. to f. gravel											
667.3	GC-GM		CLAYEY SILTY GRAVEL (GC-GM), gr., sil. pl., mst., c. to f. gravel	16.3	11.9									
665.8	GC		CLAYEY SANDY GRAVEL (GC), gr., sil. pl., mst., c. to f. gravel											
BOTTOM OF HOLE														

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

**PROJECT WEST COLUMBUS, PHASE III B**  
**HOLE NO. UD-97-231**

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS										
				W	C	L	L	P	L	PL	PL			
695.8														
692.3	NS		DRILLING W/O SAMPLING											
689.8	CH		FAT CLAY (CH), ll. and dk. gr. mol. with br., hl. pl., mst., firm, m. toughness w/ trace f.g. sand, some manganese	4.7	21						0	5	95	
689.8	NS		NO SAMPLE											
689.8	CL		LEAN CLAY (CL), br. and gr. mol., m. pl., mst., firm, m. toughness w/ trace f.g. sand	3.6	21						0	10	90	
687.3	NS		NO SAMPLE											
680.3	NS		DRILLING W/O SAMPLING											
678.2	CL-ML		SILTY SAND (CL-ML), gr. and br., low pl., moist, soft to firm, low toughness, no dry strength, f.g. sand	20	16						0	60	40	
677.8	NS		NO SAMPLE											
BOTTOM OF HOLE														

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

**PROJECT WEST COLUMBUS, PHASE III B**  
**HOLE NO. D-97-232**

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS										
				W	C	L	L	P	L	PL	PL			
701.8	CL		SANDY CLAY (CL), bk., pl., dry-dmp., w/rts. and org. mat.	13.9										
701.8	CH		SANDY CLAY (CH), bk., hl. pl., dry-dmp., w/occ. ro. frags.	28.0										
693.7	SM		SILTY SAND (SM), br., nonpl., dmp., c.-f.g. sand, w/occ. rou. gravel	25.9						15	56	29		
688.1	CL		SILTY CLAY (CL), br., pl., dmp.	23.9										
687.8	CL		CLAYEY SANDY GRAVEL (GC), br., sil. pl., mst., c.-f.g. gravel	13.3						41	48	19		
676.1	GC		ve. sil. pl. and wet @ EL. 682.1-676.1											
674.9	GP		GRAVEL (GP), w/tr. clayey sand											
670.2	GM		SANDY SANDY GRAVEL (GM), br., nonpl., wet, c.-f.g. gravel							47	39	14		
668.6	SM		CLAYEY SILTY SAND (SM), gr., low pl., wet, w/occ. f.g. gravel	21.8	13.7									
662.2	SM		SILTY SAND (SM), gr., nonpl., wet, f.g. sand, w/occ. f.g. gravel							14	50	36		
655.5	GM		SANDY SANDY GRAVEL (GM), gr., nonpl., wet, c.-f.g. gravel											
653.6	GP		GRAVEL (GP), broken, w/silty sand, wet											
651.9	NS		SANDSTONE, cored 3" long cobble w/gravel											
651.4	GM		SANDY SANDY GRAVEL (GM), cored											
BOTTOM OF HOLE														

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 2 SHEETS

**PROJECT WEST COLUMBUS, PHASE III B**  
**HOLE NO. D-97-232**

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS										
				W	C	L	L	P	L	PL	PL			
691.6	GM		SILTY SANDY GRAVEL (GM), gr., wet, c. to f. gravel											
647.0	NS		DRILLING W/O SAMPLING (ROLLERBIT)											
642.9	NS		DRILLING W/O SAMPLING (ROLLERBIT)											
641.5	CL		Cored siltstone cobble; well rounded, no matrix recovered							36				
638.1	SLS		CLAYSTONE: Gray, soft, fissile, severely broken with cumulative 0.5 loss.							53				
627.7	LS		LIMESTONE: brownish gray, silty, moderately hard, fine textured, occasional pyrite nodules and chert throughout. Plane breaks spaced at 0.1'-0.7'. Vertical fractures, irregular and smooth, slight calcite coating from 641.3-640.9 and 640.3-640.2. LIMESTONE: gray, moderately hard, medium textured, numerous chert layers scattered throughout. Plane breaks spaced at 0.1'-0.7'. High angle, insipient, calcite-healed fractures at 636.4-636.3 and 634.2-635.0.							75				
BOTTOM OF HOLE														

\* ROCK STRUCTURAL ELEMENTS SHEET 2 OF 2 SHEETS

**PROJECT WEST COLUMBUS, PHASE III B**  
**HOLE NO. UD-97-232**

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS										
				W	C	L	L	P	L	PL	PL			
701.7														
699.7	NS		DRILLING W/O SAMPLING											
696.2	CH		FAT CLAY (CH), dk. br.gr., hl. pl., mst., firm to hard, m. toughness w/ trace c.g. to f.g. sand, f.g. gravel	2.6	23						5	10	85	
696.2	NS		NO SAMPLE											
BOTTOM OF HOLE														

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

**PROJECT WEST COLUMBUS, PHASE III B**  
**HOLE NO. D-98-233**

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS										
				W	C	L	L	P	L	PL	PL			
718.7	SC-SM		SILTY CLAYEY GRAVELLY SAND (SC-SM), br., v. low pl., c.-f. sand, c.-f. subang.-md. gravel	5.1										
707.7	CL		SANDY SILTY GRAVELLY CLAY (CL), br., low pl., mst., f. subang.-md. gravel, c.-f. sand	11.7										
704.5	GM		SANDY SANDY GRAVEL (GM), br., nonpl., mst., w/ wood, concrete, cinders, & brick frags.	7.4										
700.2	CL		SANDY ORGANIC CLAY (CL), br., med. pl., mst., c.-f. sand, w/c.-f. org. gravel	22.4	33	21								
698.7	CL		CLAYEY SAND (SC), bk., low pl., mst., pred. cinders.	15.3						23	32	45		
696.2			BOTTOM OF HOLE											

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

**PROJECT WEST COLUMBUS, PHASE III B**  
**HOLE NO. D-97-234**

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS										
				W	C	L	L	P	L	PL	PL			
704.4	SC		SANDY CLAY (CL), bk., m. pl., c.-f. sand, w/ gravel, w/ roots	23.3										
701.4	SC		GRAVELLY CLAYEY SAND (SC), gr., low pl., dmp., c.-f.g. sand, c.-f.g. rou. gravel	10.2						23	32	45		
698.4	CL		SANDY GRAVELLY CLAY (CL), gr., m. pl., dmp., c.-f.g. sand, c.-f.g. rou.-ang. gravel	21.0										
698.3	SC		CLAYEY SAND (SC), gr., low pl., dmp., c.-f.g. sand	11.3										
695.4	CH		SANDY SILTY FAT CLAY (CH), bk., hl. pl., dmp., f.g. sand	21.8	55.5	24.0								
692.0	CL		SANDY SILTY CLAY (CL), bk., m. pl., dmp., f.g. sand	27.7	25.1									
689.4	CL		SILTY CLAY (CL), br., m. pl., dmp., w/tr. f.g. sand	23.0	38.5	20.0								
BOTTOM OF HOLE														

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

**PROJECT WEST COLUMBUS, PHASE III B**  
**HOLE NO. D-98-235**

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS										
				W	C	L	L	P	L	PL	PL			
705.8	OL		ORGANIC SILTY CLAY (OL), bk., low pl., mst., w/f. sand, grass, rts.	22.2										
720.3	CL		SANDY CLAY (CL), br., m. pl., mst., c.-f. sand, f. subang. gravel w/roots	11.1										
698.3	SC-SM		SILTY CLAYEY GRAVELLY SAND (SC-SM), bk., nonpl., mst., c.-f. sand, c.-f. ang.-subang. gravel	7.2						22	58	20		
696.8	GP		SANDY GRAVEL (GP), ll. br., nonpl., mst., c. ang. gravel, c.-f. sand w/silt	2.6										
695.3	NS		NO RECOVERY											
692.3	CL		SILTY CLAY (CL), dk. br., low pl., mst., f.-m. sand, c. ang. gravel, w/grass and rts.	13.3										
690.8	OL		ORGANIC SANDY SILTY CLAY (OL), dk. br., ll. pl., mst., f. sand w/shell frags.	21.7	28	16								
683.3	ML		SANDY SILT (ML), gr., l. pl., dmp.-wet., c.-f. ang.-subang. gravel, c.-f. sand	25.2	29	18								
680.3	SW		SAND (SW), gr.-bk., nonpl., wet, c.-f. sand w/silt and F.W.	25.4	28	17								
674.3	SW-SM		SILTY SAND (SW-SM), gr., ve. l. pl., wet, c.-f. sand	23.1						0	88	12		
672.8	SW		SAND (SW), gr.-bk., nonpl., wet., c. sand w/silt and F.W.											
BOTTOM OF HOLE														

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

**PROJECT WEST COLUMBUS, PHASE III B**  
**HOLE NO. D-97-236**

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS										
				W	C	L	L	P	L	PL	PL			
709.9	NS		NO SAMPLE - ASPHALT											
705.4	SC		GRAVELLY CLAYEY SAND (SC), br., ve. low pl., dmp., c.g. to f. g. ang. to rou. gravel, c.g. to f.g. sand	13.8							30	35	35	
702.4	GM		SILTY SANDY GRAVEL (GM), br., non pl., dmp., f.g. to c. g. ang. to rou. gravel, c.g. to f.g. sand w/rts.	8.7										
BOTTOM OF HOLE														

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

Symbol	Descriptions	Date	Approved

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

SCIOTO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

**GRAPHIC LOGS  
OF BORINGS**

Designed by: GAH  
Drawn by: LRR  
Checked by: GAH  
Reviewed by: HSB  
Approved by: DLB

Date: MARCH 2000  
Drawing Code: 016-PWC-13

Scale: AS SHOWN  
Sheet reference number: 10/8  
FILENAME: E06810gn.dgn  
PEN TABLE: STD-I.tbl  
STD-I.tbl

Sheet 4 of 8

CORE SIZE: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
BATTER: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DIRECTION: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DATE: 20 NOV 97  
STARTED: 20 NOV 97  
COMPLETED: 20 NOV 97  
HOLE NO. D-97-237  
SAMPLER: 2" SPLITSPOON  
DROP: 30"  
HAMMER: 140#  
COORDINATES: N 698885.0  
E 1856235.5

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS									
				WC	LL	PL	PL	PL	PL	PL	PL		
706.9	CL		GRAVELLY SANDY CLAY (CL), dk. br., low pl., dmp., f.g. ang. to rou. gravel, c.g. to f.g. sand, w/rts.	26.3	27.0	17.0							
705.3	CL		SANDY CLAYEY GRAVEL (GC), br., low pl., dmp. c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand.	11.3									
703.8	GC												
702.3	SC		GRAVELLY CLAYEY SAND (SC), br., low pl., dmp., c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand.	9.3									
			GRAVELLY CLAYEY SAND (SC), br., low pl., dmp., c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand.										
			BOTTOM OF HOLE										

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
BATTER: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DIRECTION: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DATE: 21 NOV 97  
STARTED: 21 NOV 97  
COMPLETED: 21 NOV 97  
HOLE NO. UD-97-237  
SAMPLER: 5" SPLITSPOON  
DROP: 30"  
HAMMER: PUSHED  
COORDINATES: N 698885.15  
E 1856235.08

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS									
				WC	LL	PL	PL	PL	PL	PL	PL		
704.7	NS		DRILLING W/O SAMPLING										
703.6	CL		GRAVELLY SANDY LEAN CLAY (CL), br., low pl., mst., firm, m. toughness, low dry strength, c.g. to f.g. sand, c.g. to f.g., subang. to subrou. gravel.										
			BOTTOM OF HOLE										

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
BATTER: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DIRECTION: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DATE: 19 NOV 97  
STARTED: 19 NOV 97  
COMPLETED: 19 NOV 97  
HOLE NO. D-97-238  
SAMPLER: 2" SPLITSPOON  
DROP: 30"  
HAMMER: 140#  
COORDINATES: N 699362.56  
E 1855887.49

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS									
				WC	LL	PL	PL	PL	PL	PL	PL		
717.2	NS		DRILLING W/O SAMPLING (ASPHALT)										
715.7	NS		DRILLING W/O SAMPLING (ASPHALT)										
712.7			GRAVELLY SANDY CLAY (CL), br., m. pl., dmp., f.g. ang. to rou. gravel, c.g. to f.g. sand w/rts.	14.3									
709.7	CL		SANDY CLAY (CL), br., m. pl., dmp., c.g. to f.g. sand, w/occ. coal frags, and f.g. ang. to rou. gravel.	15.2	32.0	15.0							
707.7			GRAVELLY SANDY CLAY (CL), br., m. pl., dmp., f.g. ang. to rou. gravel, c.g. to f.g. sand.	17.4									
707.3			GRAVELLY SANDY CLAY (CL), br., m. pl., dmp., c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand w/rts. and occ. coal frags.	7.7									
705.2	GM		SANDY SILTY GRAVEL (GM), br., non pl., dmp., c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand w/rts. and occ. clay lumps.	9.2									
702.2	CL		SILTY SANDY CLAY (CL), dk. br., m. hi. pl., dmp., c.g. to f.g. sand, w/occ. f.g. ang. to rou. gravel.	14.3	44.0	18.0							
699.2	GM		SILTY SANDY GRAVEL (GM), H, gr. m. pl., dry, c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand br. @ EL 699.2-696.2	4.8									
696.2			BOTTOM OF HOLE										

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
BATTER: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DIRECTION: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DATE: 8 JUL 98  
STARTED: 8 JUL 98  
COMPLETED: 8 JUL 98  
HOLE NO. D-98-239  
SAMPLER: 2" SPLITSPOON  
DROP: 30"  
HAMMER: 140#  
COORDINATES: N 698909.1  
E 1855483.7

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS									
				WC	LL	PL	PL	PL	PL	PL	PL		
703.6			SANDY GRAVELLY CLAY (CL), br. m. pl., mst., c-f, subang-subrou gravel, c-f, sand, sil. organic.	15.8	39	26							
			- wet @ EL 699.1										
			- mst., w/roots @ EL 697.6										
693.1			CLAYEY SANDY GRAVEL (GC), H, br.-gr, nonpl., mst., c. subang-subrou gravel, c-f, sand	8.3									
			- F.W. @ EL 681.1										
675.1	SC		GRAVELLY CLAYEY SAND (SC), br.-gr, nonpl., wet, c-f, ang-subrou gravel, c-f, sand	13.9									
669.1	SC-SM		SILTY CLAYEY GRAVELLY SAND (SC-SM), br., nonpl., wet, c-f, subang-subrou gravel										
666.1	NS		NO RECOVERY										
664.6	NS		NO RECOVERY										
662.9	CL		GRAVELLY SANDY CLAY (CL), gr. m. pl., wet, c-f, sand, c-f, subang-subrou gravel	11.0	28	16							
			BOTTOM OF HOLE										

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 2 SHEETS

CORE SIZE: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
BATTER: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DIRECTION: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DATE: 20 NOV 97  
STARTED: 20 NOV 97  
COMPLETED: 20 NOV 97  
HOLE NO. D-97-240  
SAMPLER: 2" SPLITSPOON  
DROP: 30"  
HAMMER: 140#  
COORDINATES: N 698859.70  
E 1855685.78

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS									
				WC	LL	PL	PL	PL	PL	PL	PL		
722.5	NS		DRILLING W/O SAMPLING (ASPHALT)										
719.9	GM		SILTY SANDY GRAVEL (GM), br., non pl., dry, c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand	15.0									
718.0			SANDY CLAY (CL), dk. br., m. hi. pl., dmp., c.g. to f.g. sand, w/occ. f.g. ang. to rou. gravel	28.8	47.0	19.0							
715.4	CL		dk. m. pl., @ EL 718.0-715.4	30.8									
713.7			SILTY SANDY CLAY (CL), br., m. pl., dmp., c.g. to f.g. sand, w/occ. f.g. ang. to rou. gravel	13.7									
712.0	GM		SANDY SILTY GRAVEL (GM), br., non pl., dmp., c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand	10.7									
709.2	SM		SILTY GRAVELLY SAND (SM), br., non pl., dmp., c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand	10.0									
707.5			GRAVELLY SANDY CLAY (CL), br., low pl., dmp., c.g. to f.g. ang. to rou. gravel, c.g. to f.g. sand	16.7	29.0	16.0							
704.5				14.6									
701.5	CL		dk. br. @ EL 704.5-701.5	18.8	25.5	15.0							
698.5			SANDY CLAY (CL), dk. br., low pl., dmp., c.g. to f.g. sand, w/occ. f.g. ang. to rou. gravel	17.7									
696.8			m. pl. and rou. gravel @ EL 698.5-696.8	19.1									
695.5	ML		SANDY CLAYEY SILT (ML), br., low pl., dmp., c.g. to f.g. sand, w/occ. c.g. to f.g. rou. gravel	22.1									
			BOTTOM OF HOLE										

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
BATTER: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DIRECTION: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DATE: 26 NOV 97  
STARTED: 26 NOV 97  
COMPLETED: 26 NOV 97  
HOLE NO. UD-97-240  
SAMPLER: 5" FIXED PISTON  
DROP: 30"  
HAMMER: PUSHED  
COORDINATES: N 698861.69  
E 1855687.40

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS									
				WC	LL	PL	PL	PL	PL	PL	PL		
722.5	NS		DRILLING W/O SAMPLING										
719.5	NS		SANDY GRAVELLY LEAN CLAY (CL), H, to dk. br., low pl., mst., firm, low toughness, low dry strength, c.g. to f.g. gravel, c.g. to f.g. sand										
718.5	CL												
718.0	CH		FAT CLAY (CH), dk. gr. br., hi. pl., mst., firm to hard w/ trace c.g. to f.g. sand	6.0	25	0	10	90					
717.0	CH		NO SAMPLE										
			DRILLING W/O SAMPLING										
710.0	NS		DRILLING W/O SAMPLING										
709.1	CL		GRAVELLY LEAN CLAY (CL), br., m. pl., dry to mst., ve. hard, m. toughness, f.g. ang. gravel w/ trace c.g. to f.g. sand	4.0	17	15	10	75					
707.4	NS		DRILLING W/O SAMPLING										
706.6	CL		GRAVELLY SANDY LEAN CLAY (CL), br. and gr., low pl., dry to mst., firm, low toughness, f.g. gravel, c.g. to f.g. sand										
			DRILLING W/O SAMPLING										
701.0	NS		DRILLING W/O SAMPLING										
698.7	CH		SANDY FAT CLAY (CH), gr. br., hi. pl., dry to mst., firm to hard, c.g. to f.g. sand w/ trace f.g. gravel	5.7	23	10	25	65					
			BOTTOM OF HOLE										

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
BATTER: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DIRECTION: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DATE: 20 NOV 97  
STARTED: 20 NOV 97  
COMPLETED: 20 NOV 97  
HOLE NO. D-97-241  
SAMPLER: 2" SPLITSPOON  
DROP: 30"  
HAMMER: PUSHED  
COORDINATES: N 698853.77  
E 1855976.81

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS									
				WC	LL	PL	PL	PL	PL	PL	PL		
701.0			DRILLING W/O SAMPLING										
698.0	CL		SANDY CLAY (CL), br., m. pl., dmp., c.g. to f.g. sand, w/rts. and occ. f.g. ang. to rou. gravel	19.8	34.0	20.0							
697.1			SILTY CLAY (CL), br., m. pl., dmp.	28.0									
695.0	ML		SANDY CLAYEY SILT (ML), br., low pl., dmp. to mst., f.g. sand	19.9									
692.8	ML		CLAYEY SILT (ML), br., low pl., dmp. to mst., w/ trace of c.g. to f.g. sand	28.4									
690.5	CH		SANDY CLAY (CH), dk. br., hi. pl., dmp., f.g. sand, w/rust and coal frags.	39.4	61.0	23.0							
689.5	CL		SILTY CLAY (CL), gr. br., m. pl., dmp., w/ coal frags.	37.0									
689.0			SANDY CLAY (CL), gr. br., m. pl., dmp., c.g. to f.g. sand	23.7									
			BOTTOM OF HOLE										

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

CORE SIZE: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
BATTER: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DIRECTION: VERTICAL PROJECT WEST COLUMBUS, PHASE III B  
DATE: 6 AUG 98  
STARTED: 6 AUG 98  
COMPLETED: 6 AUG 98  
HOLE NO. D-98-242  
SAMPLER: 2" SPLITSPOON  
DROP: 30"  
HAMMER: 140#  
COORDINATES: N 703201.2  
E 185535.3

ELEVATION (FEET) MSL	SYMBOL	RSE #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS									
				WC	LL	PL	PL	PL	PL	PL	PL		
698.9			ORGANIC CLAY (OL), dk. br., m. hi. pl., dry, highly organic, w/c-f, sand and roots	19.2	45	25							
692.9			SANDY CLAY (CL), br., m. pl., mst., c-f, sand	17.4	28	16							
691.1	CL												
688.4	SM		SILTY SAND (SM), br., l. pl., mst., c-f, sand	20.7									
686.9	CL		SANDY CLAY (CL), br., m. pl., wet, c-f, sand, w/c-f, and gravel	13.5									
			SANDY CLAY (CL), br., m. pl., wet, c-f, sand, w/c-f, and gravel	12.1									
			SILTY SANDY GRAVEL (GM), br., nonpl., wet, c-f, subang. gravel, c-f, sand, w/F.W.										
668.9			SANDY GRAVELLY CLAY (CL), gr. l. pl., wet, c-f, sand, c-f, ang-subrou. gravel	8.5	23	15							
665.9	GM		SILTY SANDY GRAVEL (GM), gr., nonpl., wet, c-f, ang-subrou. gravel, c-f, sand										
664.9	GM												
			BOTTOM OF HOLE										

\* ROCK STRUCTURAL ELEMENTS SHEET 1 OF 1 SHEETS

Revisions			
Symbol	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 III B  
**GRAPHIC LOGS OF BORINGS**  
 Designed by: GAH  
 Drawn by: LRR  
 Checked by: GAH  
 Reviewed by: HSB  
 Approved by: DLB  
 Date: MARCH 2000  
 Drawing Code: 016-PWC-13  
 Sheet reference number: 10/9  
 FILENAME: E:\CS\logs.dgn  
 PEN TABLE: STD-I.tbl  
 STD-II.tbl  
 Sheet 5 of 8





CORE SIZE BATTER VERTICAL PROJECT WEST COLUMBUS, PHASE III B DIRECTION DATE 9 SEP 98 STARTED 15 SEP 98 COMPLETED			PROJECT WEST COLUMBUS, PHASE III B HOLE NO. D-98-251			SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140# COORDINATES: N 638769.8 E 185554.0												
ELEVATION (FEET) MSL	SYMBOL	REMARKS OR TEST RESULTS	W	C	L	P	L	P	L	P	L	P	L	P	L	P	L	P
703.6	CL	GRAVELLY SANDY CLAY (CL), dk. br., low pl., dmp., c.-f. subang., subou. gravel, w/org.	6.6															
700.6	CL	CLAY (CL), dk. br., low pl., dmp., w/c.-f. sand, silty clay.	14.8	27	19													
699.1	CL	SANDY CLAY (CL), dk. br., ve. low pl., dmp., c.-f. sand, w/f. ang-subang. gravel.	15.9															
697.6	GC-GM	SANDY SILTY CLAYEY GRAVEL (GC-GM), lt. br., ve. low pl., dmp., c.-f. ang-subang. gravel, c.-f. sand.	6.7															
694.6	GM	SILTY SANDY GRAVEL (GM), lt. br., non pl., dmp. c.-f. subang-subou. gravel, c.-f. sand.	3.6	42	37	21												
690.1	GM	CLAY (CL), br., low pl., dmp., w/c.-f. sand & c.-f. subang-subou. gravel.	10.4	27	19													
688.6	CL	SILTY GRAVELLY SAND (SM), br., nonpl., dmp., c.-f. sand, c.-f. ang-subang. gravel, w/clayey silt.	10.0															
687.6	SM	- 2" silt lenses @ El. 688.6-687.1 - mst. @ 687.1	7.1	23	61	16												
687.0	SM	- mst. @ 687.1	6.8															
678.1	SP-SM	SILTY GRAVELLY SAND (SP-SM), br., nonpl., w/f. gravel & F.W.	12.9	39	39	98												
676.6	SP-SM	SILTY GRAVELLY SAND (SP-SM), br., nonpl., c.-f. sand, w/c.-f. subang-subou. gravel & F.W.	17.4	29	17													
673.6	CL	CLAY (CL), gr., m. pl., wet, w/c.-f. sand	17.4	29	17													
670.6	ML	SANDY SILT (ML), gr., nonpl., wet, c.-f. sand																
664.6	SW	SAND (SW), gr., non pl., lg. to c. g. sand, w/clay																
662.6	LS	LIMESTONE: Gray, moderately hard, silty, fine textured, occasional chert and fossils, breaks spaced at 0.1' to 0.8'. Overcored 662.6-662.1 Broken zone 661.6 - 661.4	0. L 0.4															
654.1		BOTTOM OF HOLE																

CORE SIZE BATTER VERTICAL PROJECT WEST COLUMBUS, PHASE III B DIRECTION DATE 21 SEP 98 STARTED 23 SEP 98 COMPLETED			PROJECT WEST COLUMBUS, PHASE III B HOLE NO. D-98-252			SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140# COORDINATES: N 638496.9 E 1855378.9												
ELEVATION (FEET) MSL	SYMBOL	REMARKS OR TEST RESULTS	W	C	L	P	L	P	L	P	L	P	L	P	L	P	L	P
653.6	LS	LIMESTONE: Light gray, moderately hard, medium texture, occasional siltstones, veins, and fossils, bedding breaks spaced at 0.2' to 1.0'. Open bedding planes at 651.2, 648.6, 648.2, 647.6 fracture at 647.6 breaks spaced at 0.3' from 647.2 to 645.3	75															
642.6		BOTTOM OF HOLE																

CORE SIZE BATTER VERTICAL PROJECT WEST COLUMBUS, PHASE III B DIRECTION DATE 21 SEP 98 STARTED 23 SEP 98 COMPLETED			PROJECT WEST COLUMBUS, PHASE III B HOLE NO. D-98-252			SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140# COORDINATES: N 638496.9 E 1855378.9												
ELEVATION (FEET) MSL	SYMBOL	REMARKS OR TEST RESULTS	W	C	L	P	L	P	L	P	L	P	L	P	L	P	L	P
698.4	CL	ORGANIC CLAY (CL), bk., low pl., mst.-dmp., w/c.-f. sand, rts. & grass	23.6															
695.2	CH	CLAY (CH), br., h. pl., dmp., w/c.-f. sand	29.2	25	52	24												
693.5	CL	GRAVELLY CLAY (CL), br., low pl., mst., ang-subang. gravel, w/c.-f. sand, silty org.	18.2															
688.6	GM	SILTY SANDY GRAVEL (GM), br., nonpl., mst., ang-subang. gravel, c.-f. sand - silt & f. sand lenses @ El. 692.4	9.9	61	22	17												
682.5	SC	CLAYEY SAND (SC), br., low pl., dmp., c.-f. sand, w/ang-subang. gravel	8.5	13	41	46												
680.9	SM	SILTY GRAVELLY SAND (SM), br., nonpl., mst.-dmp., c.-f. sand, ang-subang. gravel	4.7	21	66	13												
679.9	CL	GRAVELLY SANDY CLAY (CL), gr., low pl., mst., c.-f. sand & ang-subang. gravel	8.8	19	13	13												
674.8	SM	SILTY SAND (SM), br., nonpl., mst., c.-f. sand, w/ang-subang. gravel	9.7	19	13	13												
674.4	GP	SANDY GRAVEL (GP), br., nonpl., ang-subang. gravel, c.-f. sand, w/F.W.																
673.8	SM	SILTY GRAVELLY SAND (SM), br., nonpl., c.-f. sand, ang-subang. gravel, w/F.W.																
664.9	SM	SILTY GRAVELLY SAND (SM), br., nonpl., c.-f. sand, ang-subang. gravel, w/F.W.																
663.6	ML	SILT (ML), gr., nonpl., w/c.-f. sand & F.W.																
648.4	SM	GRAVELLY SILTY SAND (SM), br., nonpl., c.-f. sand, ang-subang. gravel, w/F.W.																

CORE SIZE BATTER VERTICAL PROJECT WEST COLUMBUS, PHASE III B DIRECTION DATE 17 SEP 98 STARTED 17 SEP 98 COMPLETED			PROJECT WEST COLUMBUS, PHASE III B HOLE NO. D-98-253			SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140# COORDINATES: N 638790.5 E 1855954.1												
ELEVATION (FEET) MSL	SYMBOL	REMARKS OR TEST RESULTS	W	C	L	P	L	P	L	P	L	P	L	P	L	P	L	P
702.4	CL	ORGANIC CLAY (CL), br., m. pl., mst., w/c.-f. sand & rts.	9.3															
698.9	CL	SANDY CLAY (CL), br., m. pl., dmp., c.-f. sand, w/ang-gravel & rts.	12.1															
695.6	ML	SANDY SILT (ML), br., nonpl., dmp., c.-f. sand	18.2	NP	NP													
693.9	CL	CLAY (CL), gr., med-h. pl., dmp., silty org., w/c.-f. sand	37.3	49	25													
684.4	CH	CLAY (CH), gr., h. pl., wet, w/f. sand & shell frags. - dmp., w/sand seam @ El. 688.0 - w/vcc. wood frags. @ El. 687.4-684.4	41.7	46.8	57	22												
684.4	GP-GM	SILTY SANDY GRAVEL (GP-GM), br., nonpl., mst.-dmp., ang-subang. gravel, c.-f. sand - F.W. @ El. 681.4	6.1															
673.9	SM	SILTY GRAVELLY SAND (SM), br., nonpl., c.-f. sand, ang-subang. gravel, w/F.W.																
672.1	SM	SILTY GRAVELLY SAND (SM), br., nonpl., c.-f. sand, ang-subang. gravel, w/F.W.																
669.9	CL	SANDY CLAY (CL), gr., med. pl., mst., c.-f. sand, w/ang-subang. gravel																
667.9	ML	SILT (ML), gr., nonpl., w/f. sand & F.W.		NP	NP													
665.2	ML	SANDY SILT (ML), gr., nonpl., c.-f. sand, w/F.W.																
664.4	GM	SILTY SANDY GRAVEL (GM), gr., nonpl., ang-subang. gravel, c.-f. sand, w/F.W.																
654.1		BOTTOM OF HOLE																

CORE SIZE BATTER VERTICAL PROJECT WEST COLUMBUS, PHASE III B DIRECTION DATE 28 SEP 98 STARTED 29 SEP 98 COMPLETED			PROJECT WEST COLUMBUS, PHASE III B HOLE NO. D-98-254			SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140# COORDINATES: N 703212.2 E 1856112.5												
ELEVATION (FEET) MSL	SYMBOL	REMARKS OR TEST RESULTS	W	C	L	P	L	P	L	P	L	P	L	P	L	P	L	P
699.2	OL	ORGANIC CLAY (OL), dk. br., m. h. pl., dmp., w/c.-f. sand, rts. & grass	16.6															
691.1	GM	SILTY SANDY GRAVEL (GM), br., nonpl., wet, ang-subang. gravel, c.-f. sand	9.4	39	28	98												
685.0	SM	SILTY GRAVELLY SAND (SM), br., nonpl., c.-f. sand, ang-subang. gravel, w/F.W.																
681.2	GP-GM	SILTY SANDY GRAVEL (GP-GM), gr., nonpl., ang-subang. gravel, c.-f. sand, w/F.W.																
672.5	ML	SANDY SILT (ML), gr., low pl., dmp., c.-f. sand	16.9	19	15													
667.7		BOTTOM OF HOLE																

CORE SIZE BATTER VERTICAL PROJECT WEST COLUMBUS, PHASE III B DIRECTION DATE 1-31-98 STARTED 1-31-98 COMPLETED			PROJECT WEST COLUMBUS, PHASE III B HOLE NO. D-98-279			SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140# COORDINATES: N 706527.0 E 1856218.8												
ELEVATION (FEET) MSL	SYMBOL	REMARKS OR TEST RESULTS	W	C	L	P	L	P	L	P	L	P	L	P	L	P	L	P
724.8	NS	DRILLING W/O SAMPLING, 6" asphalt & 12" base																
723.1	NS	SILTY SAND (SM), br., to gr., non pl., dmp.																
719.8	GC	SANDY CLAYEY GRAVEL (GC), gr. br., sil. pl., dmp., w/silt	25	65	25	33												
716.8	NS	SAMPLED - NO RECOVERY																
715.3	CL	SILTY CLAY (CL), dk. gr., to bk., sil. pl., dmp., org. spot, occ. wood frags.	18															
710.8	GM	SILTY SANDY GRAVEL (GM), gr. br., non pl., dry, c.g. to f.g.	8	58	27	15												
707.8	GM	SANDY SILTY GRAVEL (GM), med. gr. and br., non pl., to sil. pl., dmp. w/clay, inc. org., 16.5-18.5	17	44	23	33												
704.8	GC	SANDY CLAYEY GRAVEL (GC), gr., non pl., dmp.	16															
702.5	CL	SANDY GRAVELLY CLAY (CL), dk. gr., sil. pl., dmp., w/f. sand	17															
700.3	CL	GRAVELLY SAND (SW), gr. to br., non pl., dmp., ang-sub. burnt wo. frags.	22															
698.8	CH	CLAYEY SILT (CL), dk. gr., sil. pl., dmp., ang-sub. burnt wo. frags.	26	56	24													
694.3	CL	SILTY CLAY (CL), dk. to lt. br., sil. pl., dmp., to mst.	25	49	20													
690.8	SM	GRAVELLY SILTY SAND (SM), br. to bk., non pl., dmp. to mst., lg. to c.g., w/ clay	16	11	31	98												
688.3	GM	SILTY SANDY GRAVEL (GM), gr. to br., non pl., dmp. to wet, c.g. to f.g.	16															

CORE SIZE BATTER VERTICAL PROJECT WEST COLUMBUS, PHASE III B DIRECTION DATE 18 DEC 97 STARTED 18 DEC 97 COMPLETED			PROJECT WEST COLUMBUS, PHASE III B HOLE NO. D-97-284			SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140# COORDINATES: N 638586.9 E 1855160.5												
ELEVATION (FEET) MSL	SYMBOL	REMARKS OR TEST RESULTS	W	C	L	P	L	P	L	P	L	P	L	P	L	P	L	P
705.5	CL	SANDY CLAY (CL), br., m. pl., dmp., c.-f.g. SAND, f.g. GRAVEL, silty org., w/rts.	10.0															
697.5	SP	GRAVELLY SAND (SP), lt. br., nonpl., dmp., c.-f.g. SAND, c.-f.g. rou-subang. GRAVEL, w/SILT.																
696.0	NS	NO RECOVERY - Large rock.																
690.0	GM	SILTY SANDY GRAVEL (GM), lt. br., nonpl., dmp., c.-f.g. rou-subang. GRAVEL, c.-f.g. SAND	5.5	48	40	12												

CORE SIZE BATTER VERTICAL DIRECTION DATE 10-14-99 STARTED 10-14-99 COMPLETED 10-14-99		PROJECT WEST COLUMBUS, PHASE IIIB		SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140" COORDINATES: N 783275.7 E 1856461.0	
HOLE NO. D-99-300		HOLE NO. D-99-300		HOLE NO. D-99-300	
ELEVATION (FEET) MSL	SYMBOL	R.S.E. #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS	
699.5	NS		DRILLING W/O SAMPLING		
695.5	CL		CLAY (CL), br., ve. l. pl., mst., w/ f.g. sand & brick frags.		8 11-2
694.0	NS		DRILLING W/O SAMPLING		
690.5	GM		SILTY GRAVEL (GM), br., nonpl., damp, f.g. rou. gravel, w/ c-m.g. sand		9 15-19
689.0	NS		DRILLING W/O SAMPLING		
685.5	GM		SILTY SANDY GRAVEL (GM), br., nonpl., w/c-1-g. subang-subrou. gravel, c-1-g. sand		44 21-41
684.0	NS		DRILLING W/O SAMPLING		
680.5	SW		GRAVELLY SAND (SW), gr., nonpl., c-1-g. sand, c-1-g. rou. gravel, w/ SH, LS, & igneous frags. & FW		9 20-21
679.0	NS		DRILLING W/O SAMPLING		
675.5	SW		GRAVELLY SAND (SW), gr., nonpl., c-1-g. sand, f.g. gravel, w/ LS frag. & FW		58/5
674.0	NS		DRILLING W/O SAMPLING		
670.5	CL		CLAY (CL), gr., ve. l. pl., mst., w/ c-m.g. sand		10 21-42
669.0	NS		DRILLING W/O SAMPLING		
665.5	CL		CLAY (CL), gr., ve. l. pl., mst., w/ ro. frags.		45 58/4
664.0	NS		DRILLING W/O SAMPLING		
663.0	NS		DRILLING W/O SAMPLING		
			BOTTOM OF HOLE		

SHEET 1 OF 1 SHEETS

CORE SIZE BATTER VERTICAL DIRECTION DATE 10-14-99 STARTED 10-15-99 COMPLETED 10-15-99		PROJECT WEST COLUMBUS, PHASE IIIB		SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140" COORDINATES: N 783288.4 E 1856449.6	
HOLE NO. D-99-301		HOLE NO. D-99-301		HOLE NO. D-99-301	
ELEVATION (FEET) MSL	SYMBOL	R.S.E. #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS	
781.0	NS		DRILLING W/O SAMPLING		
697.0	ML		SILT (ML), br., nonpl., dry, w/ m.g. sand		5 5-7
695.0	ML		SILT (ML), br., nonpl., dry, w/ m.g. sand		4 4-4
692.0	NS		DRILLING W/O SAMPLING		
690.5	SM		SILTY SAND (SM), br., nonpl., dry, f.g. sand		0 53 47 3 5-5
689.0	NS		DRILLING W/O SAMPLING		
687.0	ML		SANDY SILT (ML), br., nonpl., f.g. sand, w/ FW		4 46 47 11 11-11
685.5	NS		DRILLING W/O SAMPLING		
682.0	SP-SM		SILTY SAND (SP-SM), gr., nonpl., f.g. sand, w/ FW		0 90 10 1-1 1-1
680.5	NS		DRILLING W/O SAMPLING		
677.0	SM		GRAVELLY SILTY SAND (SM), gr., nonpl., c-1-g. sand, f.g. gravel, w/ FW		22 62 16 5 7-7
675.5	NS		DRILLING W/O SAMPLING		
672.0	GP		SANDY GRAVEL (GP), nonpl., gr., c-1-g. gravel, c-1-g. sand, w/ FW		54 45 1 7 8-13
670.5	NS		DRILLING W/O SAMPLING		
667.0	-		BENTONITE GROUT		11 11-11
665.5	NS		DRILLING W/O SAMPLING		
665.0	NS		DRILLING W/O SAMPLING		
			BOTTOM OF HOLE		

SHEET 1 OF 1 SHEETS

CORE SIZE BATTER VERTICAL DIRECTION DATE 10-18-99 STARTED 10-18-99 COMPLETED 10-18-99		PROJECT WEST COLUMBUS, PHASE IIIB		SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140" COORDINATES: N 783288.4 E 1856545.7	
HOLE NO. D-99-302		HOLE NO. D-99-302		HOLE NO. D-99-302	
ELEVATION (FEET) MSL	SYMBOL	R.S.E. #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS	
699.3	NS		DRILLING W/O SAMPLING		
695.5	ML		SILT (ML), br., nonpl., dry, w/ m.-f.g. sand & rts.		4 4-4
694.0	ML		SILT (ML), br., nonpl., dry, w/ f.g. sand		4 4-5
692.0	NS		DRILLING W/O SAMPLING		
690.5	GM		SILTY GRAVEL (GM), br., nonpl., dry, f.g. gravel, w/ LS frags.		18 21-21
689.0	NS		DRILLING W/O SAMPLING		
685.5	GW		GRAVEL (GW), gr., nonpl., f.-c.g. ang-subang. gravel, w/ cl. & FW		22 43-33
684.0	NS		DRILLING W/O SAMPLING		
680.5	GW		SANDY GRAVEL (GW), gr., nonpl., f.-c.g. sand, c-1-g. ang-subang. gravel, w/ FW		11 11-58/4
678.0	NS		DRILLING W/O SAMPLING		
675.5	GW		SANDY GRAVEL (GW), gr., nonpl., f.-c.g. sand, c-1-g. subrou-subang. gravel, w/ FW		18 32-35
674.0	CL		CLAY (CL), gr., ve. l. pl., dry, w/ c.g. sand		19 58/4
670.5	NS		DRILLING W/O SAMPLING		
667.0	CL		CLAY (CL), gr., ve. l. pl., mst., w/ m.g. sand		18 18-24
668.8	NS		DRILLING W/O SAMPLING		
667.3	SM		SILTY GRAVELLY SAND (SM), gr., nonpl., f.-c.g. sand, f. gravel, w/ FW		26 58/4
665.8	NS		DRILLING W/O SAMPLING		
665.3	NS		DRILLING W/O SAMPLING		
665.0	NS		SAMPLED - NO RECOVERY		58/1
663.0	-		BOTTOM OF HOLE		

SHEET 1 OF 1 SHEETS

CORE SIZE BATTER VERTICAL DIRECTION DATE 10-18-99 STARTED 10-18-99 COMPLETED 10-18-99		PROJECT WEST COLUMBUS, PHASE IIIB		SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140" COORDINATES: N 783284.2 E 1856571.6	
HOLE NO. D-99-303		HOLE NO. D-99-303		HOLE NO. D-99-303	
ELEVATION (FEET) MSL	SYMBOL	R.S.E. #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS	
699.5	NS		DRILLING W/O SAMPLING		
695.5	ML		SILT (ML), br., nonpl., dry, w/ f.g. sand		4 4-5
694.0	ML		SILT (ML), br., nonpl., dry, w/ f.g. sand		4 4-5
692.0	NS		DRILLING W/O SAMPLING		
690.5	GM		SILTY SANDY GRAVEL (GM), br., nonpl., dry, c-1-g. sand, c-1-g. subang-subrou. gravel		24 18-24
689.0	NS		DRILLING W/O SAMPLING		
685.5	GM		SILTY SANDY GRAVEL (GM), br., nonpl., c-1-g. sand, c-1-g. gravel, w/ fr. clay & org. odor		18 26-23
684.0	NS		DRILLING W/O SAMPLING		
680.5	NS		DRILLING W/O SAMPLING		
679.0	GW		SANDY GRAVEL (GW), gr., nonpl., c-1-g. sand, c-1-g. subrou. gravel, w/ FW		4 14-27
677.0	NS		DRILLING W/O SAMPLING		
675.5	GW		SANDY GRAVEL (GW), gr., nonpl., c-m.g. sand, c-1-g. subang-subrou. gravel, w/ FW		19 58/4
674.0	NS		DRILLING W/O SAMPLING		
670.5	NS		DRILLING W/O SAMPLING		
669.0	SM		SILTY SAND (SM), gr., nonpl., c-m.g. sand, w/ gravel & FW		58/5
667.9	NS		DRILLING W/O SAMPLING		
			BOTTOM OF HOLE		

SHEET 1 OF 1 SHEETS

CORE SIZE BATTER VERTICAL DIRECTION DATE 10-19-99 STARTED 10-19-99 COMPLETED 10-19-99		PROJECT WEST COLUMBUS, PHASE IIIB		SAMPLER 2" SPLITSPOON DROP 30" HAMMER 140" COORDINATES: N 783232.1 E 1856539.3	
HOLE NO. D-99-304		HOLE NO. D-99-304		HOLE NO. D-99-304	
ELEVATION (FEET) MSL	SYMBOL	R.S.E. #	DESCRIPTION OF MATERIALS	REMARKS OR TEST RESULTS	
782.1	NS		DRILLING W/O SAMPLING		
697.1	ML		SILT (ML), br., nonpl., dry, w/ f.g. sand		5 7-10
696.6	NS		DRILLING W/O SAMPLING		
692.1	GM		SILTY SANDY GRAVEL (GM), br., nonpl., dry, c-1-g. sand, c-1-g. subang-subrou. gravel		21 18-26
690.6	NS		DRILLING W/O SAMPLING		
687.1	SM		SILTY GRAVELLY SAND (SM), br., nonpl., mst., c-1-g. sand, c-1-g. gravel, w/ fr. clay & org. odor		21 21-16
685.6	NS		DRILLING W/O SAMPLING		
682.1	GW		SANDY GRAVEL (GW), gr., nonpl., c-1-g. sand, c-1-g. rou-ang. gravel, w/ FW		6 15-42
680.6	NS		DRILLING W/O SAMPLING		
677.1	GW		SANDY GRAVEL (GW), gr., nonpl., c-1-g. sand, c-1-g. rou-ang. gravel, w/ FW		8 58/5
676.6	NS		DRILLING W/O SAMPLING		
672.1	NS		DRILLING W/O SAMPLING		
670.6	CL		CLAY (CL), gr., l. pl., dmp., w/ c-m.g. sand		11 23-58/4
669.9	NS		DRILLING W/O SAMPLING		
			BOTTOM OF HOLE		

SHEET 1 OF 1 SHEETS

Revisions			
Symbol	Descriptions	Date	Approved

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

Designed by: GAH  
 Drawn by: LRR  
 Checked by: GAH  
 Reviewed by: AS SHOWN  
 Approved by: DLB

**SCIOTO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE IIIB**

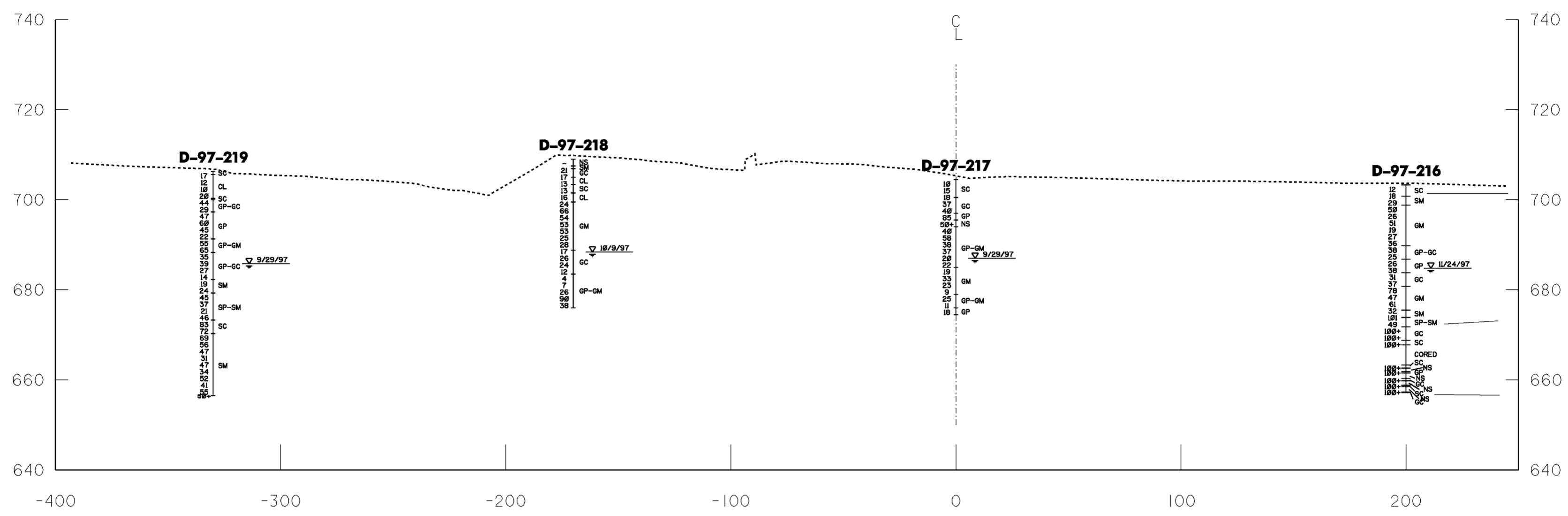
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OF BORINGS**

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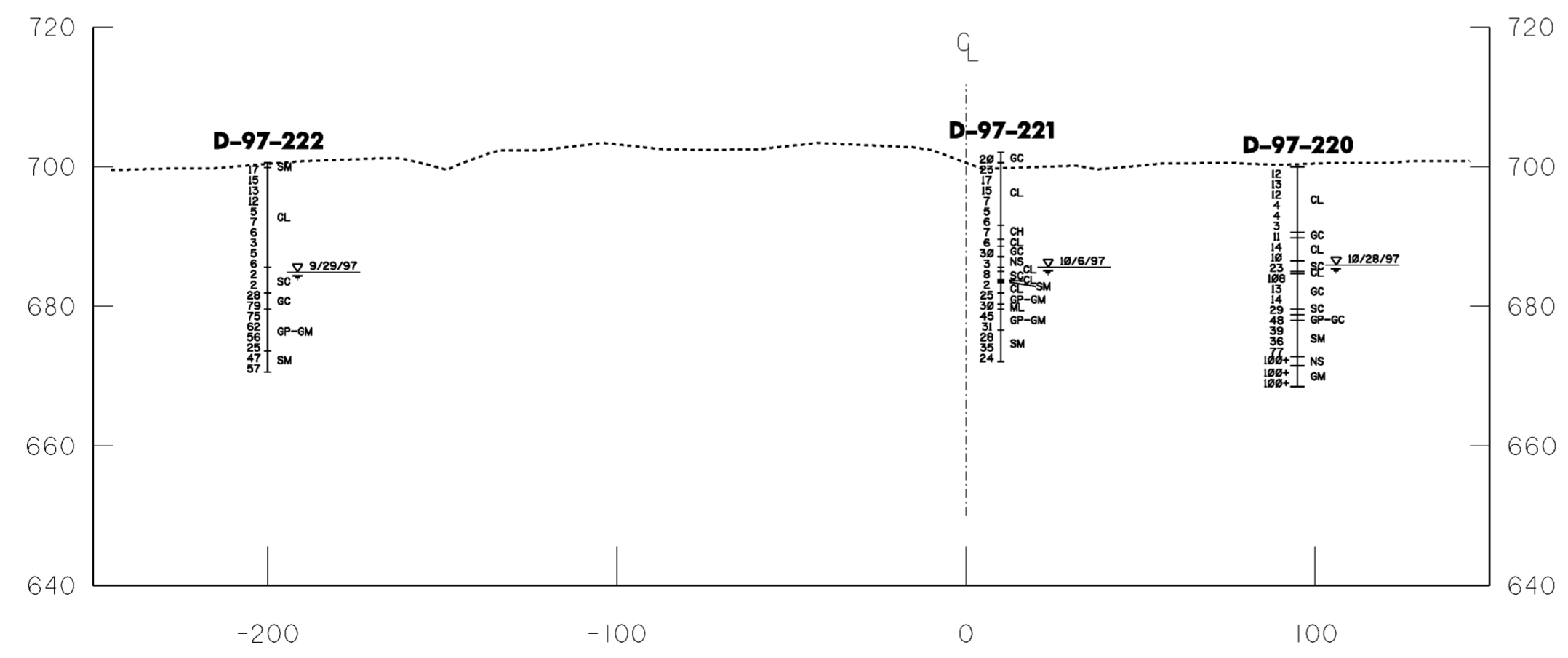
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 Sheet reference number: 10/12  
 Date: MARCH 2000  
 Sheet 8 of 8

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**SECTION A-A'**  
**STATION 275+00**



**SECTION B-B'**  
**STATION 285+00**

**LEGEND**

**D-97-220**

Boring Number: 12, 13, 12, 4, 4, 3, 11, 14, 10, 23

N-Value (Blows/foot): 12, 13, 12, 4, 4, 3, 11, 14, 10, 23

Unified Soils Classification Symbol: CL, GC, SC, GP, GM, NS, SM, CH

Water Level in Boring and Date Encountered: 10/28/97

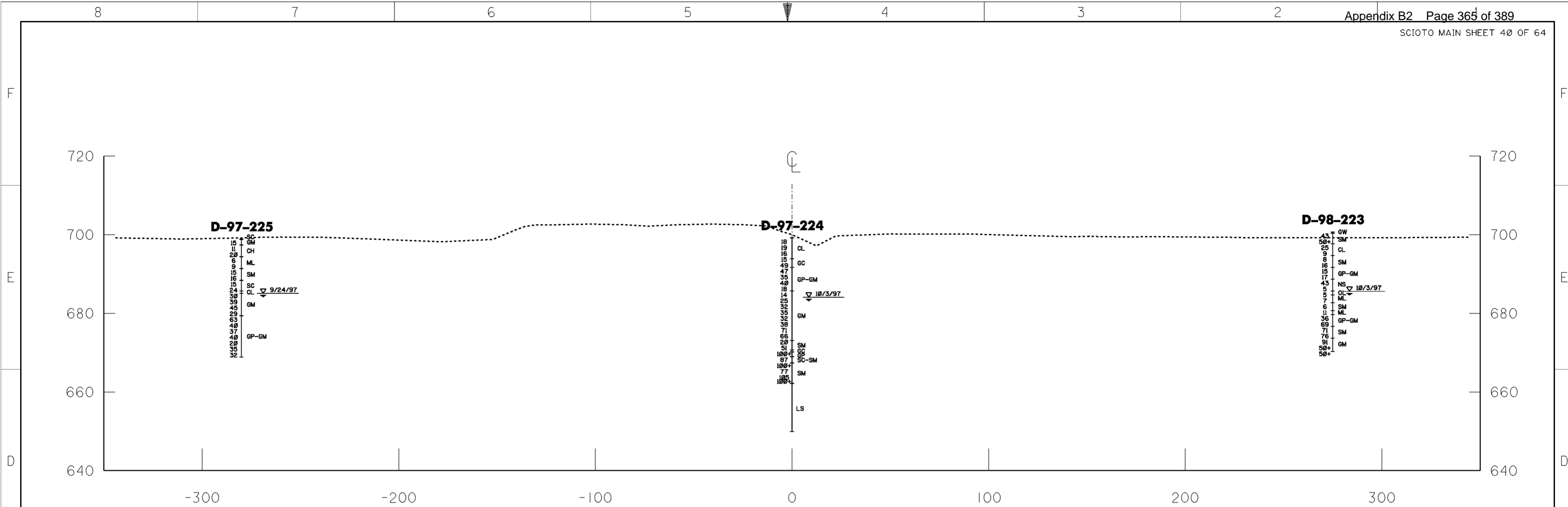
Revisions			
Symbol	Descriptions	Date	Approved

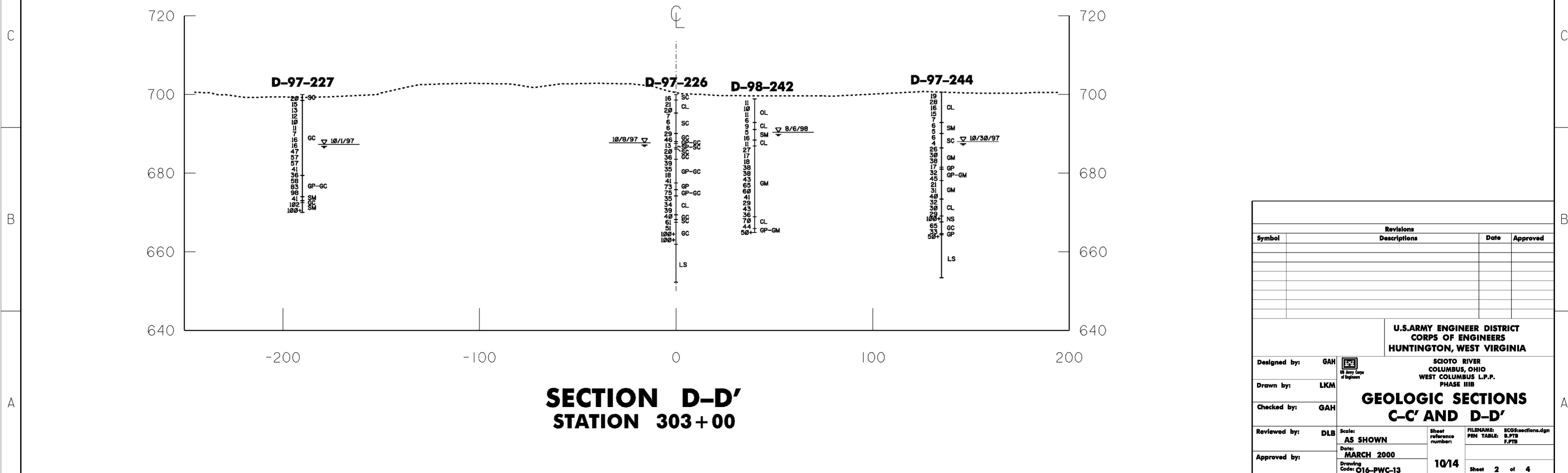
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Drawn by: LKM	Date: MARCH 2000	Sheet 1 of 4	
Checked by: GAH	Drawing Code: 016-PWC-13		
Reviewed by: DLB	<b>GEOLGIC SECTIONS A-A' AND B-B'</b>		
Approved by:			

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**SECTION C-C'**  
**STATION 296+00**



**SECTION D-D'**  
**STATION 303+00**

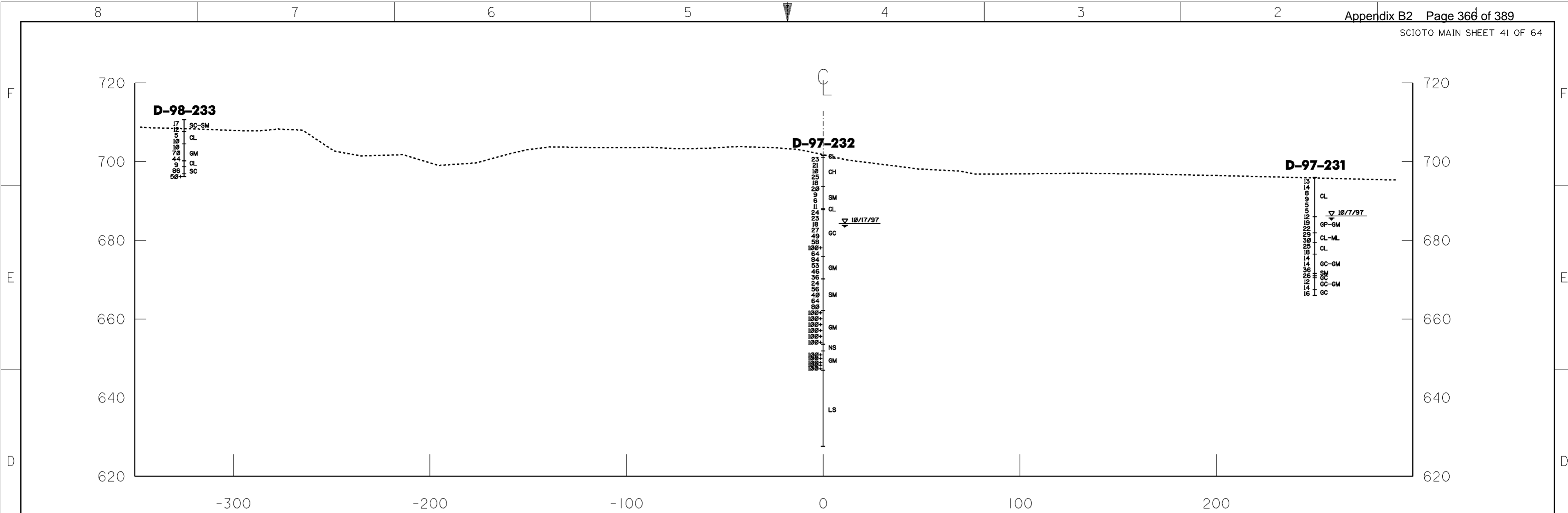
Revisions			
Symbol	Descriptions	Date	Approved

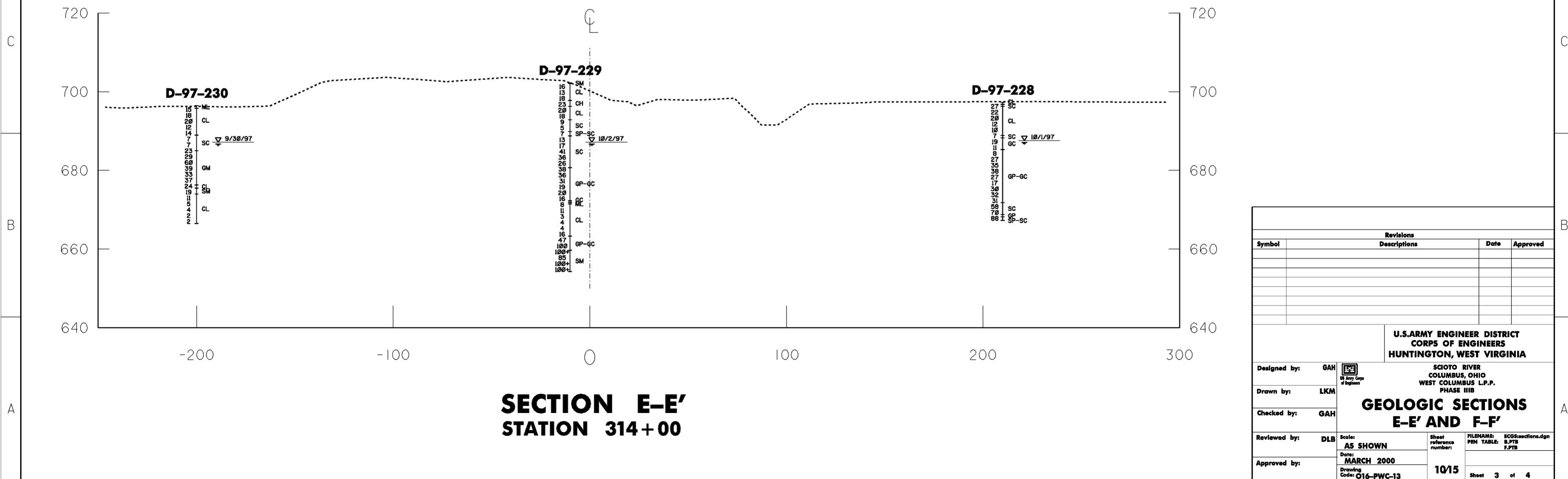
<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>			
Designed by:	GAH	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>GEOLGIC SECTIONS C-C' AND D-D'</b>	
Drawn by:	LKM		
Checked by:	GAH		
Reviewed by:	DLB		
Approved by:	AS SHOWN	Scale:	AS SHOWN
	MARCH 2000	Date:	MARCH 2000
	016-PWC-13	Drawing Code:	016-PWC-13
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			F.PTB
		Sheet	2 of 4

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**SECTION F-F'**  
**STATION 325 + 50**



**SECTION E-E'**  
**STATION 314 + 00**

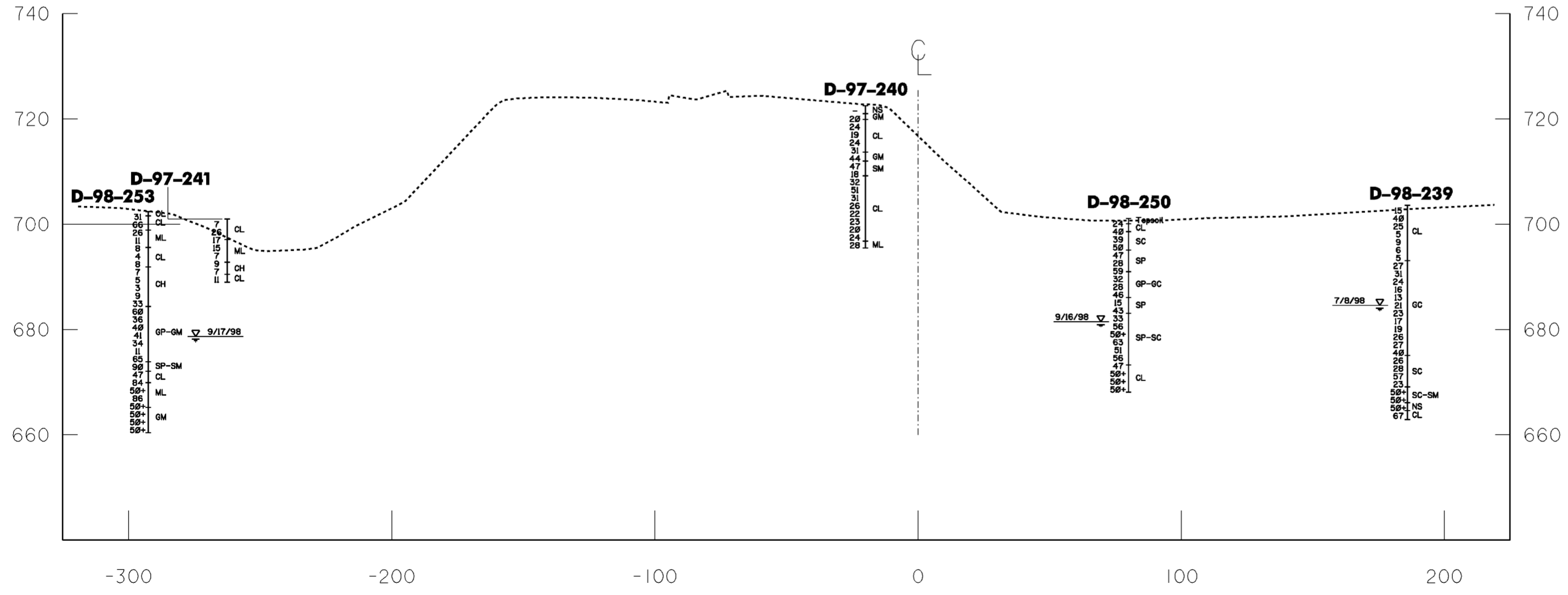
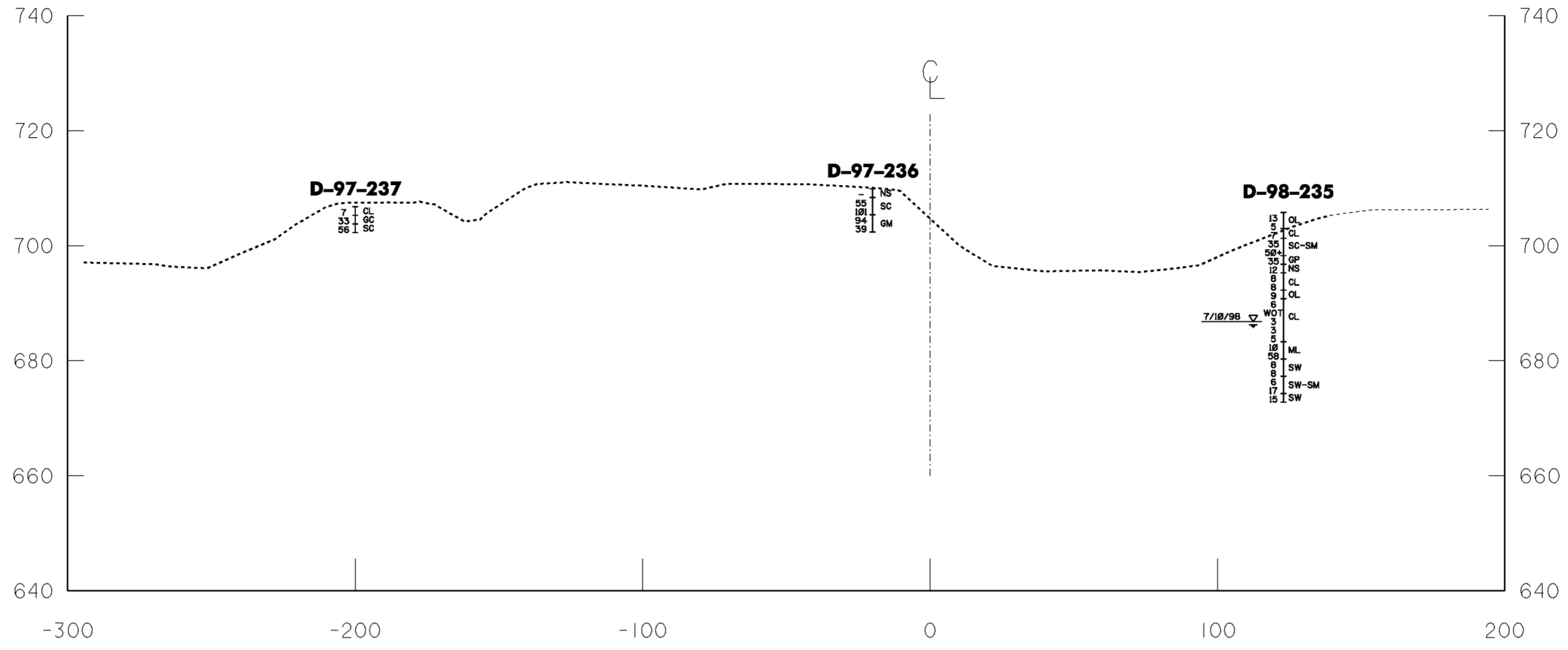
Revisions			
Symbol	Descriptions	Date	Approved

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Designed by:	GAH	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB <b>GEOLOGIC SECTIONS E-E' AND F-F'</b>	
Drawn by:	LKM		
Checked by:	GAH		
Reviewed by:	DLB		
Approved by:			
Scale:	AS SHOWN	Sheet reference number:	1015
Date:	MARCH 2000	FILENAME:	ECOSsections.dgn
Drawing Code:	016-PWC-13	PIN TABLE:	S.PTB F.PTB
		Sheet	3 of 4

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Revisions			
Symbol	Descriptions	Date	Approved

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

SCIOTO RIVER  
COLUMBUS, OHIO  
WEST COLUMBUS L.P.P.  
PHASE III B

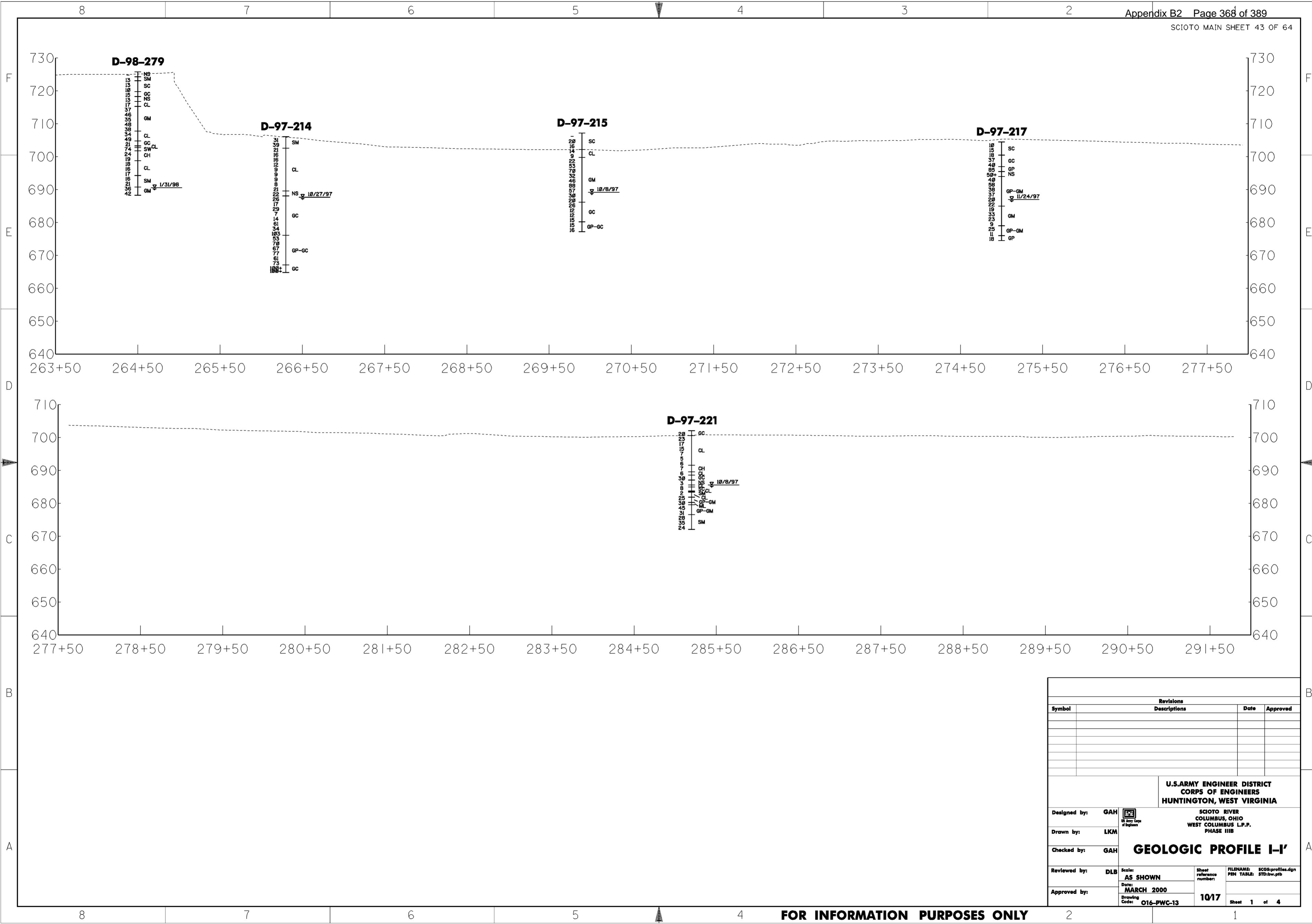
**GEOLOGIC SECTIONS  
G-G' AND H-H'**

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Drawn by: LKM		Date: MARCH 2000		
Checked by: GAH		Drawing Code: O16-PWC-13		
Reviewed by: DLB				
Approved by:				

Sheet 4 of 4

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Revisions			
Symbol	Descriptions	Date	Approved

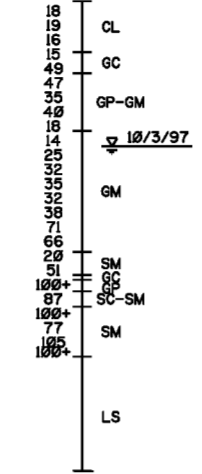
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB	
		<b>GEOLOGIC PROFILE I-I'</b>	
Designed by:	GAH	Scale: <b>AS SHOWN</b>	FILENAME: ECG:profiles.dgn PEN TABLE: STD:bw.ptb
Drawn by:	LKM		
Checked by:	GAH	Date:	MARCH 2000
Reviewed by:	DLB	Drawing Code:	O16-PWC-13
Approved by:		Sheet reference number:	1017
		Sheet 1 of 4	

FOR INFORMATION PURPOSES ONLY

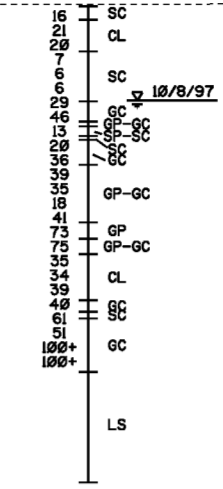
WORK AS CONSTRUCTED



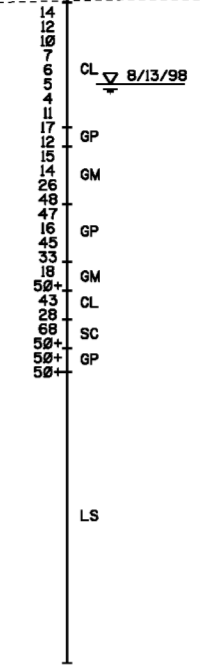
**D-97-224**



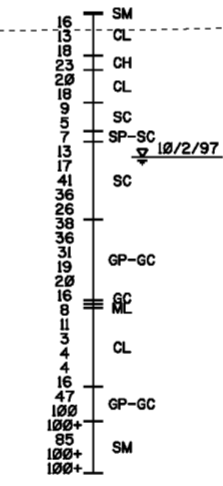
**D-97-226**



**D-98-245**



**D-97-229**



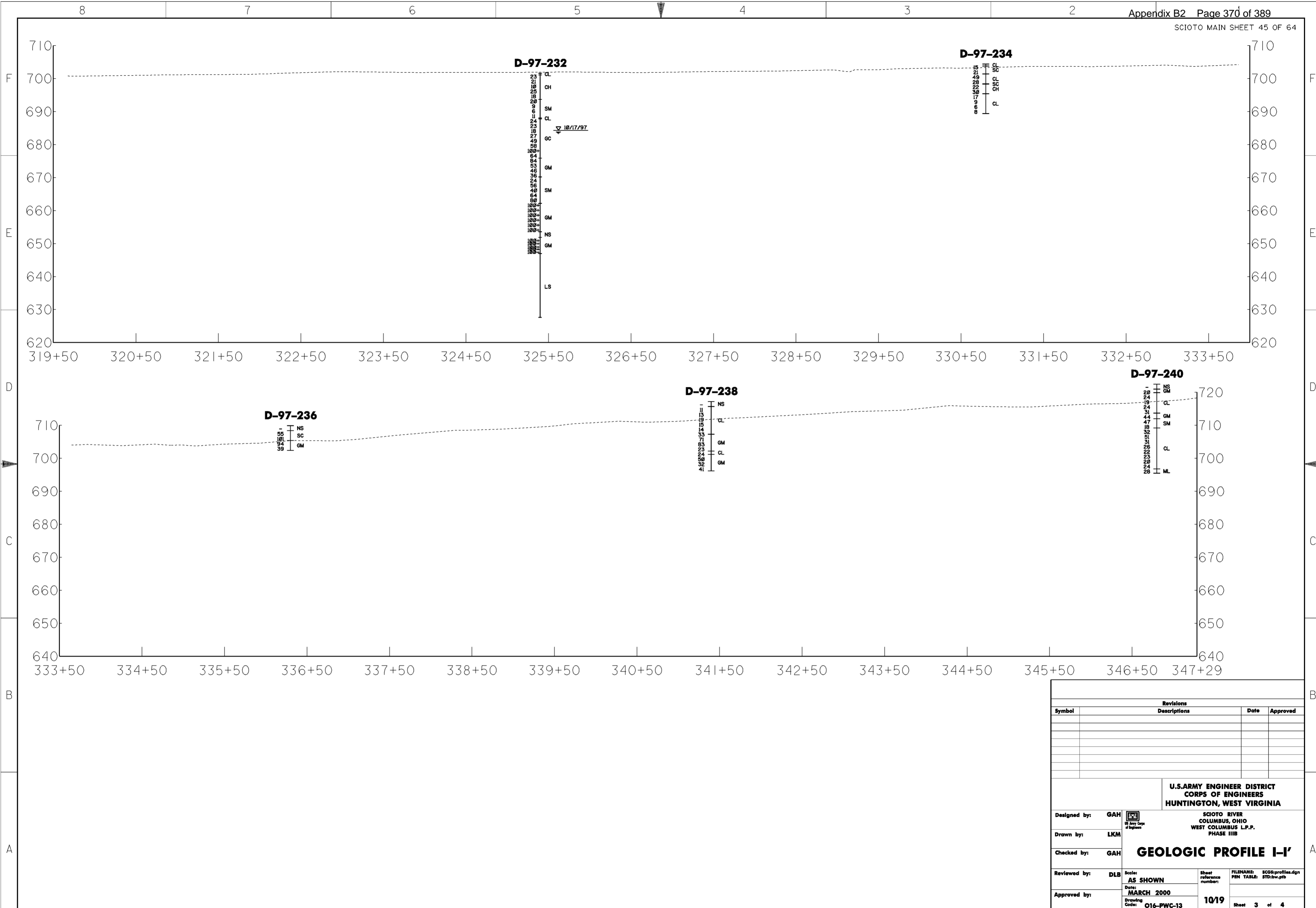
Revisions			
Symbol	Descriptions	Date	Approved

<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>			
Designed by: GAH		<b>SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE III-B</b>	
Drawn by: LKM		<b>GEOLOGIC PROFILE I-I'</b>	
Checked by: GAH			
Reviewed by: DLB	Scale: AS SHOWN	Sheet reference number: 10/18	FILENAME: ECG:profiles.dgn PIN TABLE: STD:bw.ptb
Approved by:	Date: MARCH 2000	Drawing Code: O16-PWC-13	Sheet 2 of 4

FOR INFORMATION PURPOSES ONLY

WORK AS CONSTRUCTED



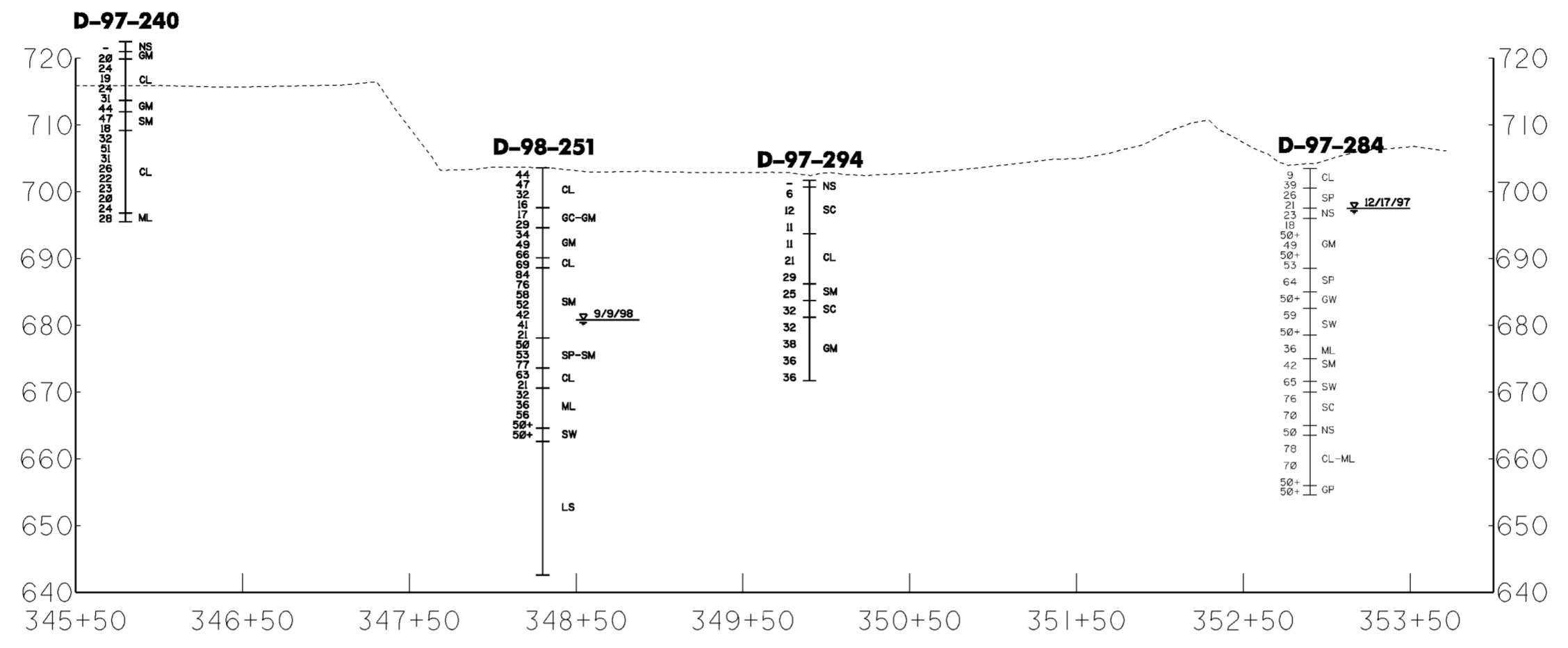
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB	
		<b>GEOLOGIC PROFILE I-I'</b>	
Designed by: GAH		Scale: AS SHOWN	Sheet reference number: 1019
Drawn by: LKM		Date: MARCH 2000	FILENAME: ECG:profiles.dgn PIN TABLE: STD:bw.ptb
Checked by: GAH		Drawing Code: O16-PWC-13	Sheet 3 of 4
Reviewed by: DLB			
Approved by:			

FOR INFORMATION PURPOSES ONLY

WORK AS CONSTRUCTED



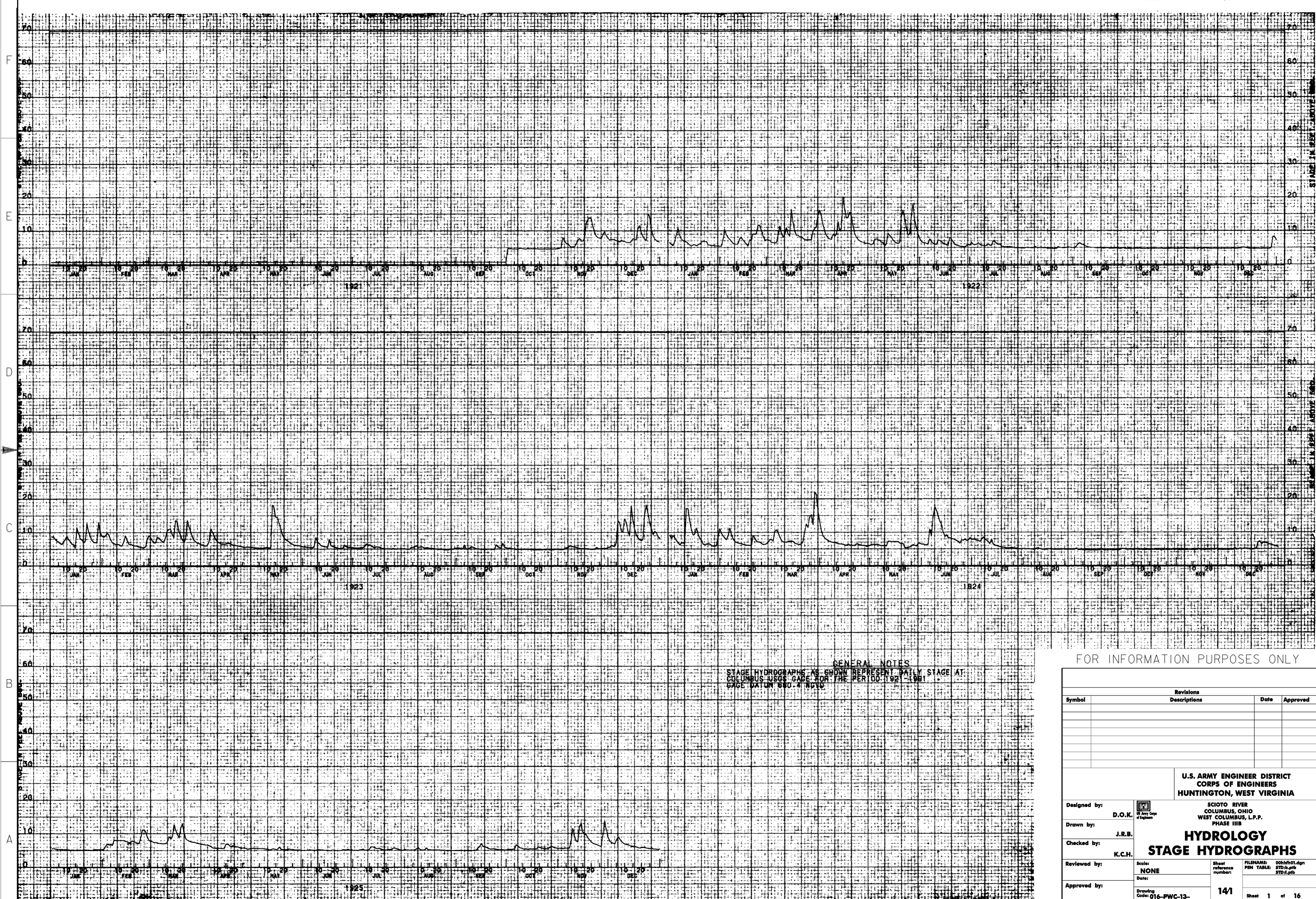
Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS L.P.P. PHASE IIIB	
Designed by: GAH	Drawn by: LKM	<b>GEOLOGIC PROFILE I-I'</b>	
Checked by: GAH	Reviewed by: DLB	Scale: AS SHOWN Date: MARCH 2000 Drawing Code: O16-PWC-13	Sheet reference number: 10/20 FILENAME: ECG:profiles.dgn PEN TABLE: STD:bw.plt Sheet 4 of 4

FOR INFORMATION PURPOSES ONLY

WORK AS CONSTRUCTED



GENERAL NOTES  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1921-1981  
 GAGE DATUM 890.4 NGVD

FOR INFORMATION PURPOSES ONLY

Symbol	Revisions		Date	Approved
	Descriptions			

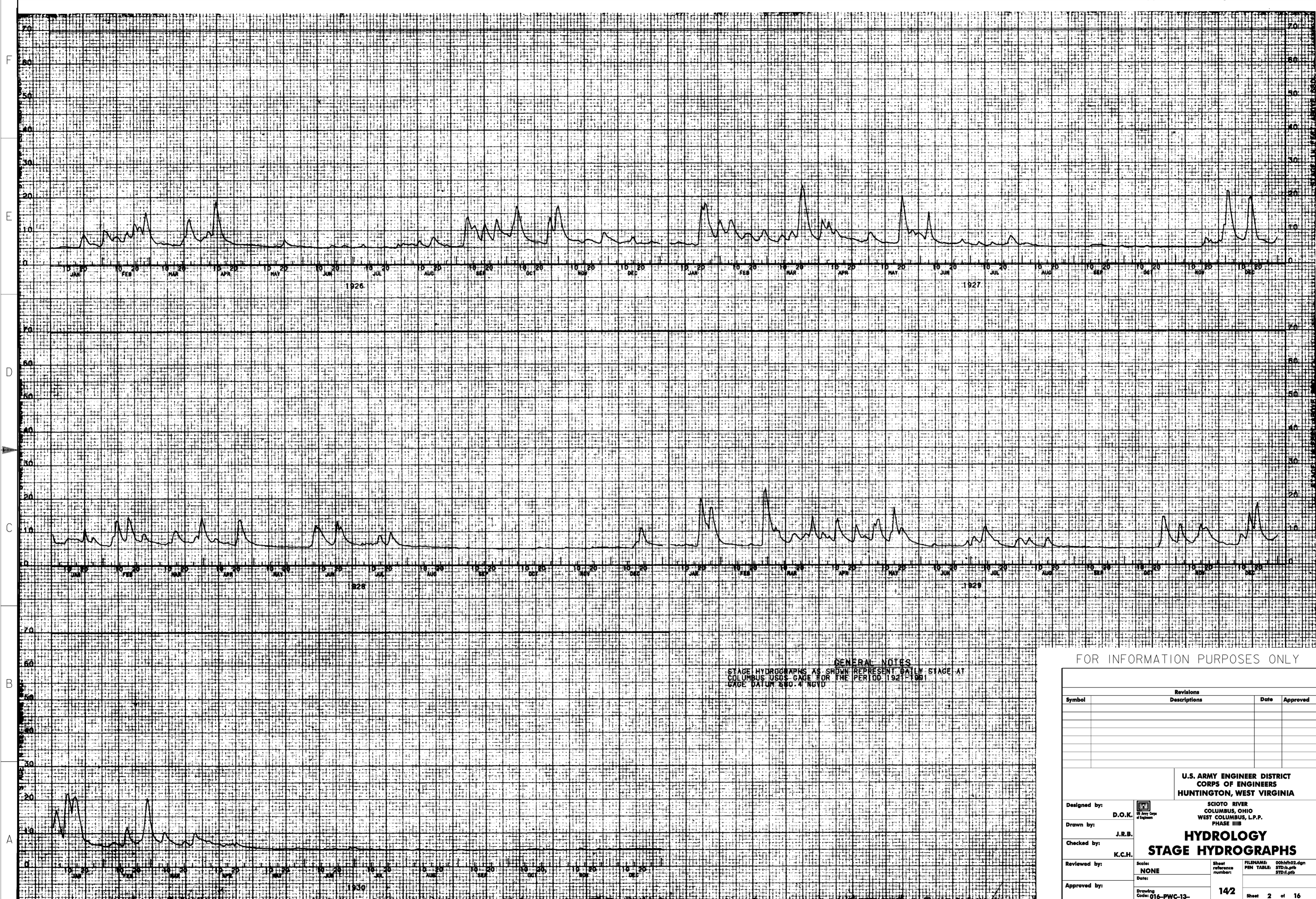
U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 HUNTINGTON, WEST VIRGINIA

SCIO TO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS, L.P.P.  
 PHASE III B

**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:   
 Drawing Code: 016-PWC-13-

Sheet reference number: 141  
 FILENAME: 00hsh01.dgn  
 PEN TABLE: STD.b.ptb  
 STD.d.ptb  
 Sheet 1 of 16



**GENERAL NOTES**  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991  
 GAGE DATUM 870.4 NGVD

FOR INFORMATION PURPOSES ONLY

Symbol	Revisions		Date	Approved
	Descriptions			

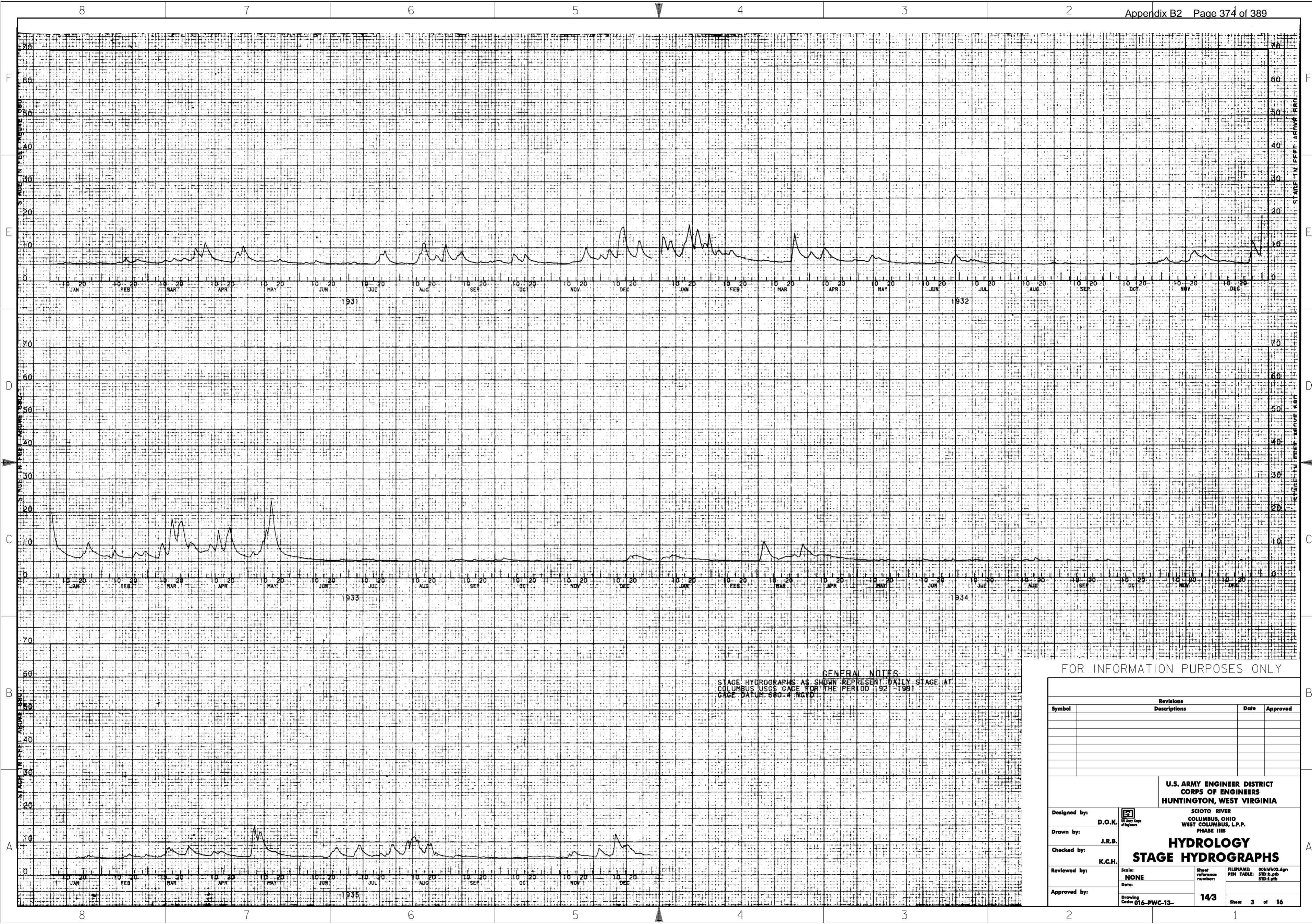
**U.S. ARMY ENGINEER DISTRICT**  
**CORPS OF ENGINEERS**  
**HUNTINGTON, WEST VIRGINIA**

SCIO TO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS, L.P.P.  
 PHASE III B

**HYDROLOGY**  
**STAGE HYDROGRAPHS**

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

Sheet reference number: **142**  
 FILENAME: 00hth02.dgn  
 PEN TABLE: STD.b.plt  
 STD.d.plt  
 Sheet 2 of 16



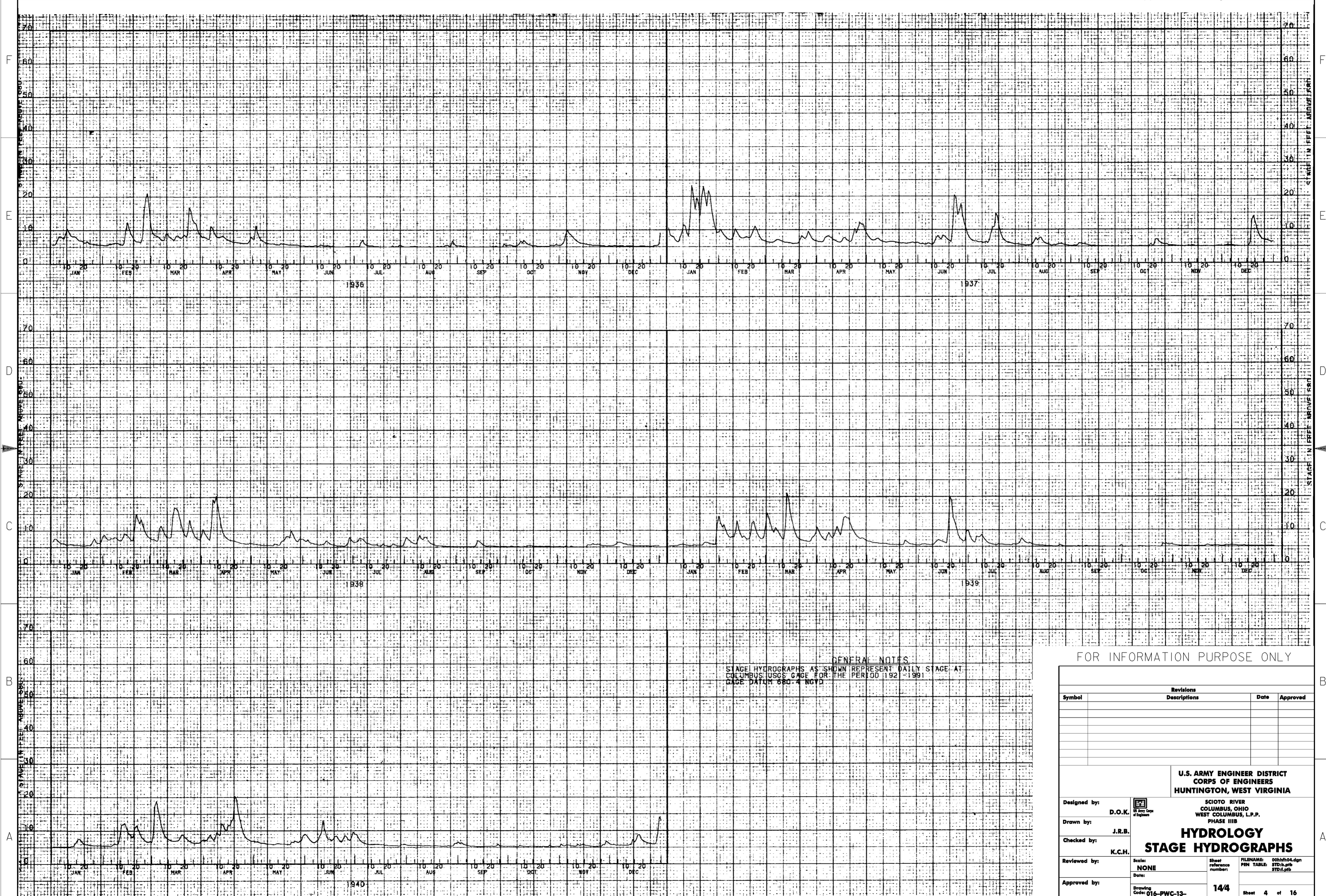
**GENERAL NOTES**  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991  
 GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Symbol	Revisions		Date	Approved
	Descriptions			

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB	
Designed by: D.O.K.	Drawn by: J.R.B.	<b>HYDROLOGY</b> <b>STAGE HYDROGRAPHS</b>	
Checked by: K.C.H.	Reviewed by:		
Approved by:	Scale: NONE		
Drawing Code: 016-PWC-13-	Sheet reference number: 143		
FILENAME: 00hsh03.dgn PEN TABLE: STD.b.ptb STD.d.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 580.4 NGVD

FOR INFORMATION PURPOSE ONLY

Revisions			
Symbol	Descriptions	Date	Approved

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

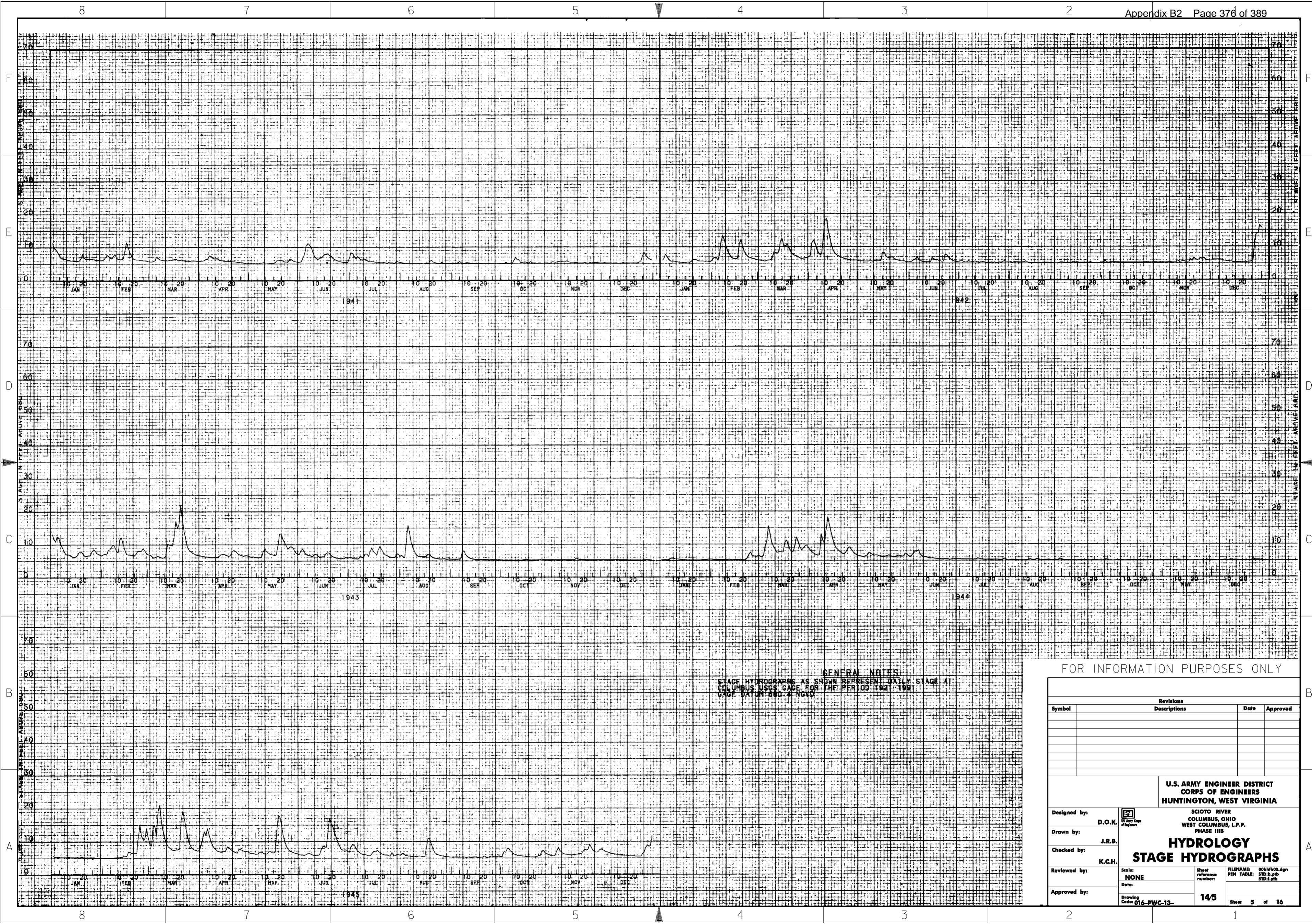
**U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 HUNTINGTON, WEST VIRGINIA**

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

**HYDROLOGY  
 STAGE HYDROGRAPHS**

Scale: **NONE**  
 Date:

Sheet reference number: **14/4**  
 FILENAME: 00hsh04.dgn  
 PEN TABLE: STD-b.tbl  
 STD-d.tbl  
 Sheet 4 of 16



**GENERAL NOTES**  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1941-1941  
 GAGE DATUM 890.4 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 III B

**HYDROLOGY**  
**STAGE HYDROGRAPHS**

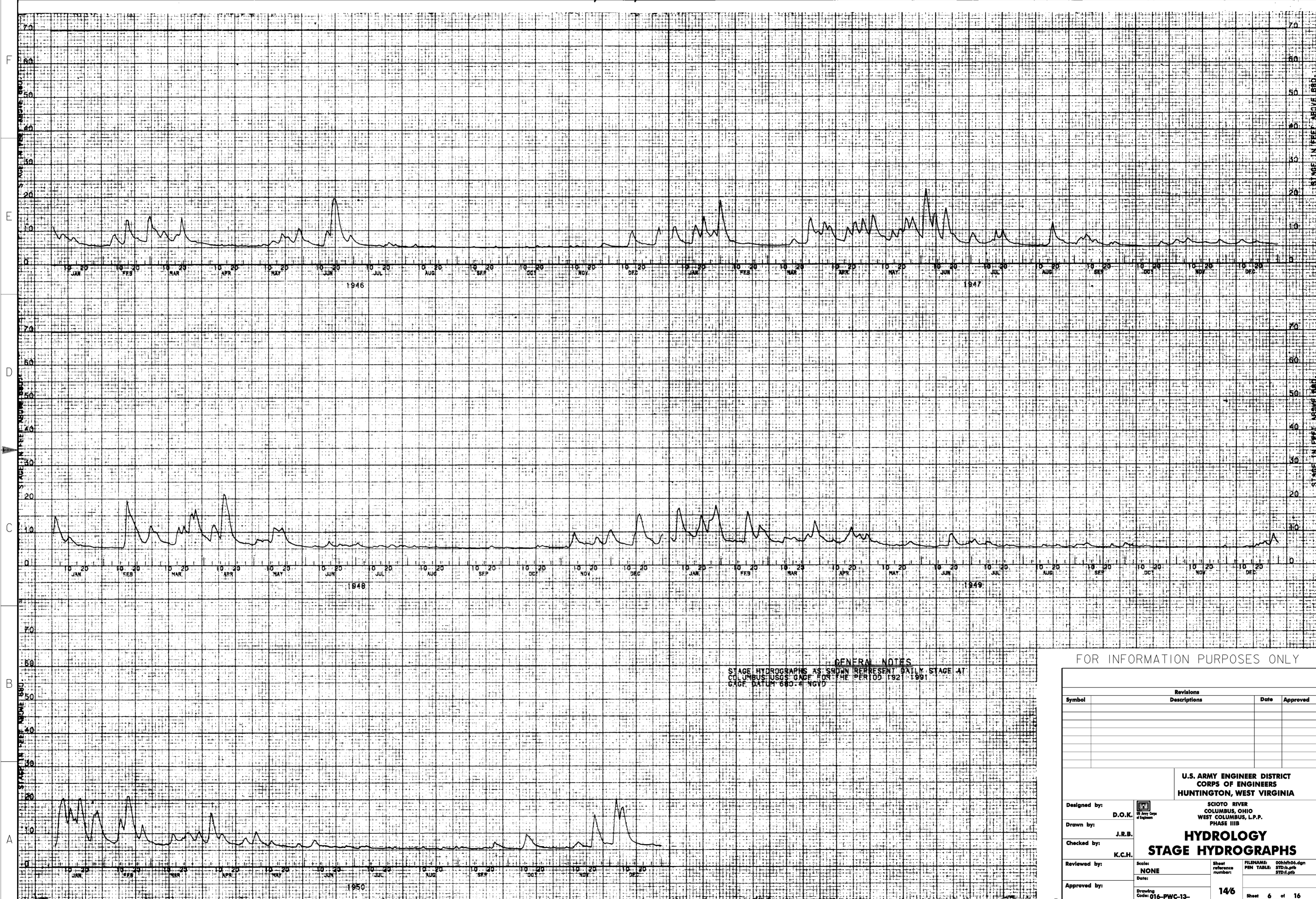
Designed by: **D.O.K.**  
 Drawn by: **J.R.B.**  
 Checked by: **K.C.H.**  
 Reviewed by: **NONE**  
 Approved by:

Scale: **NONE**  
 Date:

Drawing Code: **016-PWC-13-**

Sheet reference number: **14/5**  
 FILENAME: 00hth05.dgn  
 PEN TABLE: STD.b.plt  
 STD.d.plt  
 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			

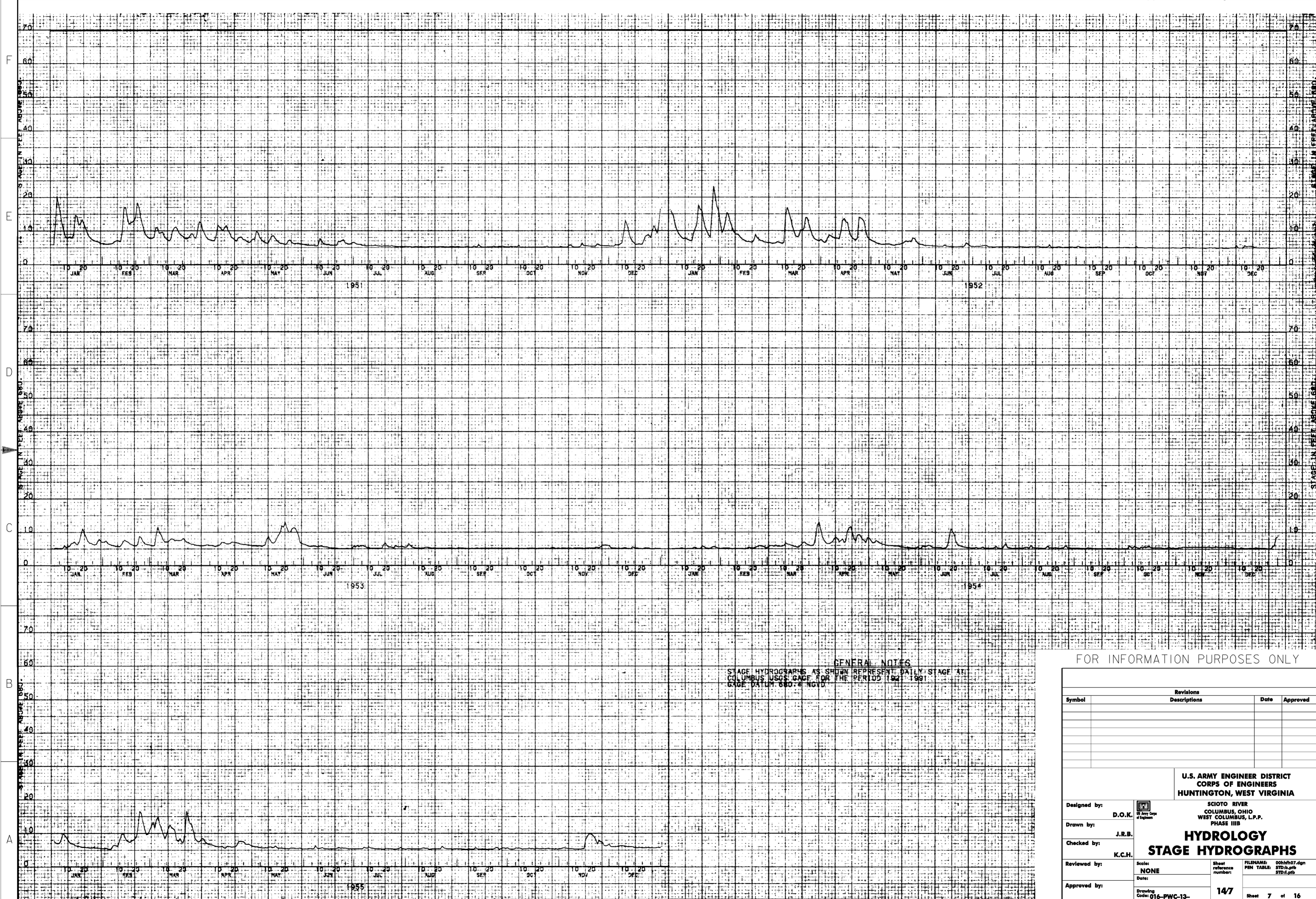
U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 HUNTINGTON, WEST VIRGINIA

SCIO TO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS, L.P.P.  
 PHASE III B

**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:   
 Drawing Code: 016-PWC-13

Sheet reference number: 146  
 FILENAME: 00h1fh06.dgn  
 PEN TABLE: STD.b.jp  
 STD.d.jp  
 Sheet 6 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

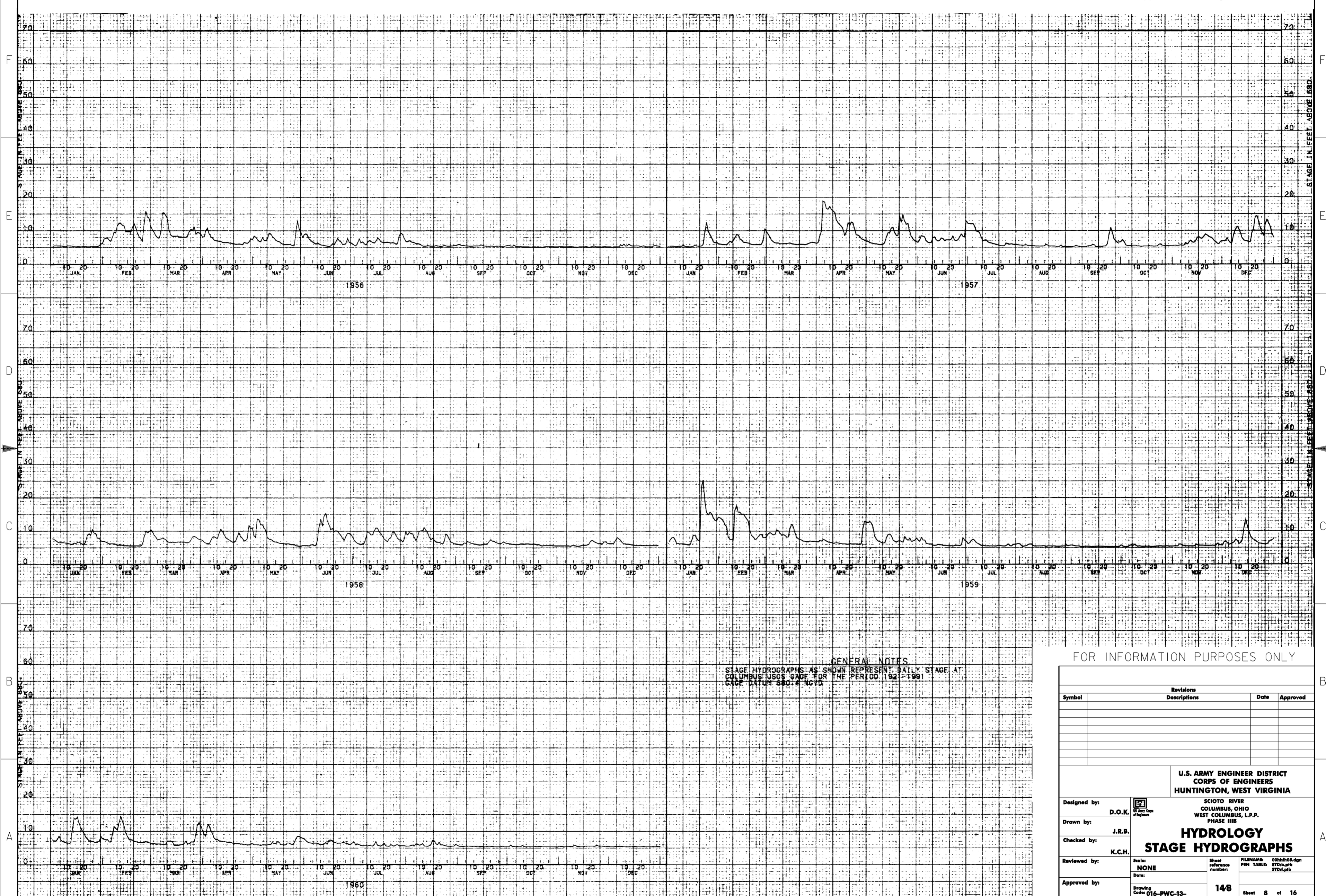
FOR INFORMATION PURPOSES ONLY

Symbol	Revisions		Date	Approved
	Descriptions			

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

**U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 HUNTINGTON, WEST VIRGINIA**  
 SCIOTO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS, L.P.P.  
 PHASE III B  
**HYDROLOGY  
 STAGE HYDROGRAPHS**

Drawing Code: **016-PWC-13-**  
 Sheet reference number: **147**  
 FILENAME: 00h1h07.dgn  
 PEN TABLE: STD-b.tbl  
 STD-d.tbl  
 Sheet **7** of **16**



**GENERAL NOTES**  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991  
 GAGE DATUM 580:4 NGVD

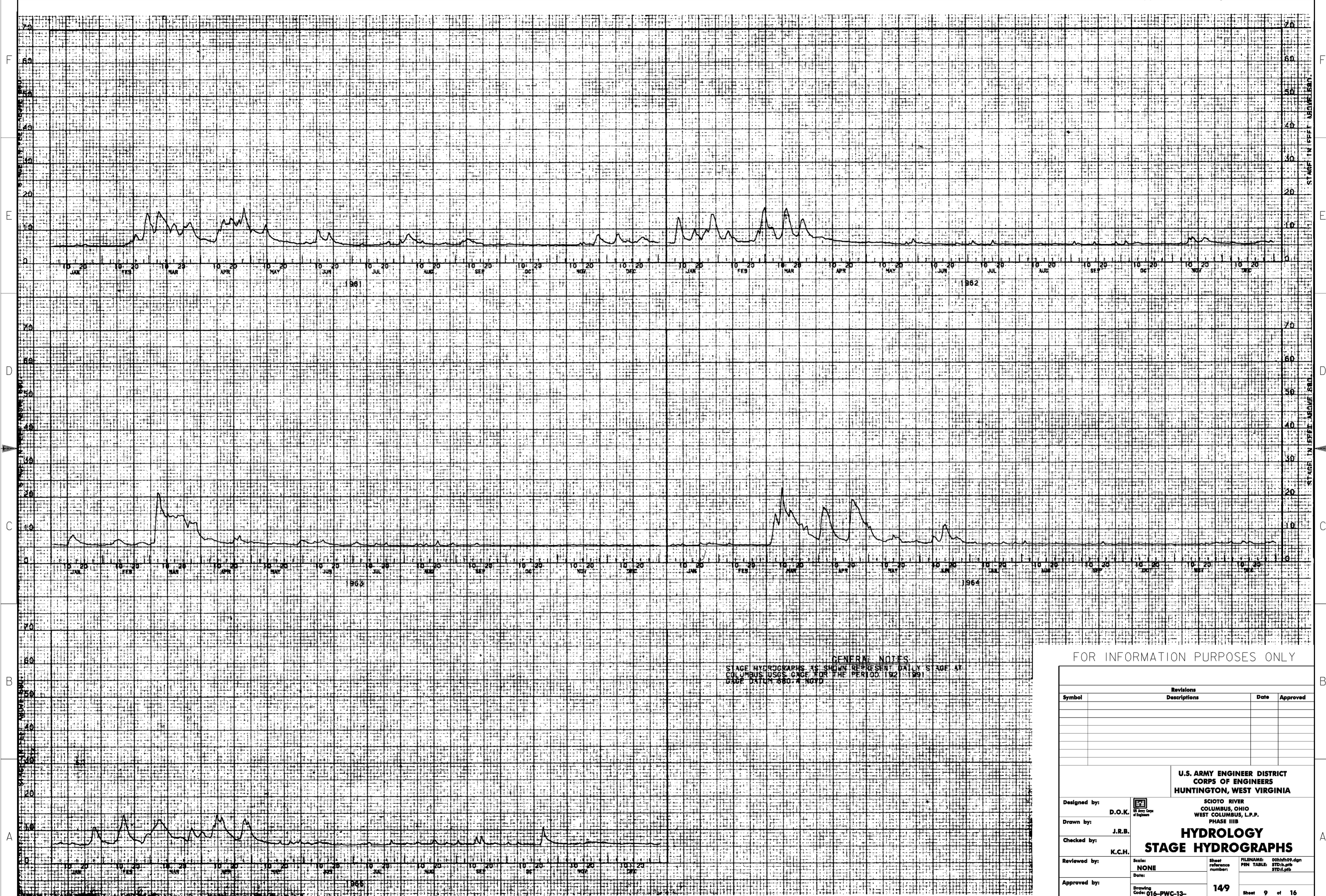
FOR INFORMATION PURPOSES ONLY

Symbol	Revisions		Date	Approved
	Descriptions			

**U.S. ARMY ENGINEER DISTRICT**  
**CORPS OF ENGINEERS**  
**HUNTINGTON, WEST VIRGINIA**  
 SCIOTO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS, L.P.P.  
 PHASE III  
**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:   
 Drawing Code: 016-PWC-13-

FILENAME: 00hsh08.dgn  
 PEN TABLE: STD.b.ptb  
 STD.d.ptb  
 Sheet reference number: 148  
 Sheet 8 of 16



GENERAL NOTES  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1961-1991  
 GAGE DATUM 660.4 NOVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

Designed by: D.O.K.  
 Drawn by: J.R.B.  
 Checked by: K.C.H.  
 Reviewed by:   
 Approved by:   
 Scale: NONE  
 Date:   
 Drawing Code: 016-PWC-13-

U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 HUNTINGTON, WEST VIRGINIA  
 SCIOTO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS, L.P.P.  
 PHASE III B  
**HYDROLOGY**  
**STAGE HYDROGRAPHS**

FILENAME: 00hsh09.dgn  
 PEN TABLE: STD.b.pdf  
 STD.d.pdf  
 Sheet reference number: 149  
 Sheet 9 of 16



**GENERAL NOTES**  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991  
 GAGE DATUM 680.4 NGVD.

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

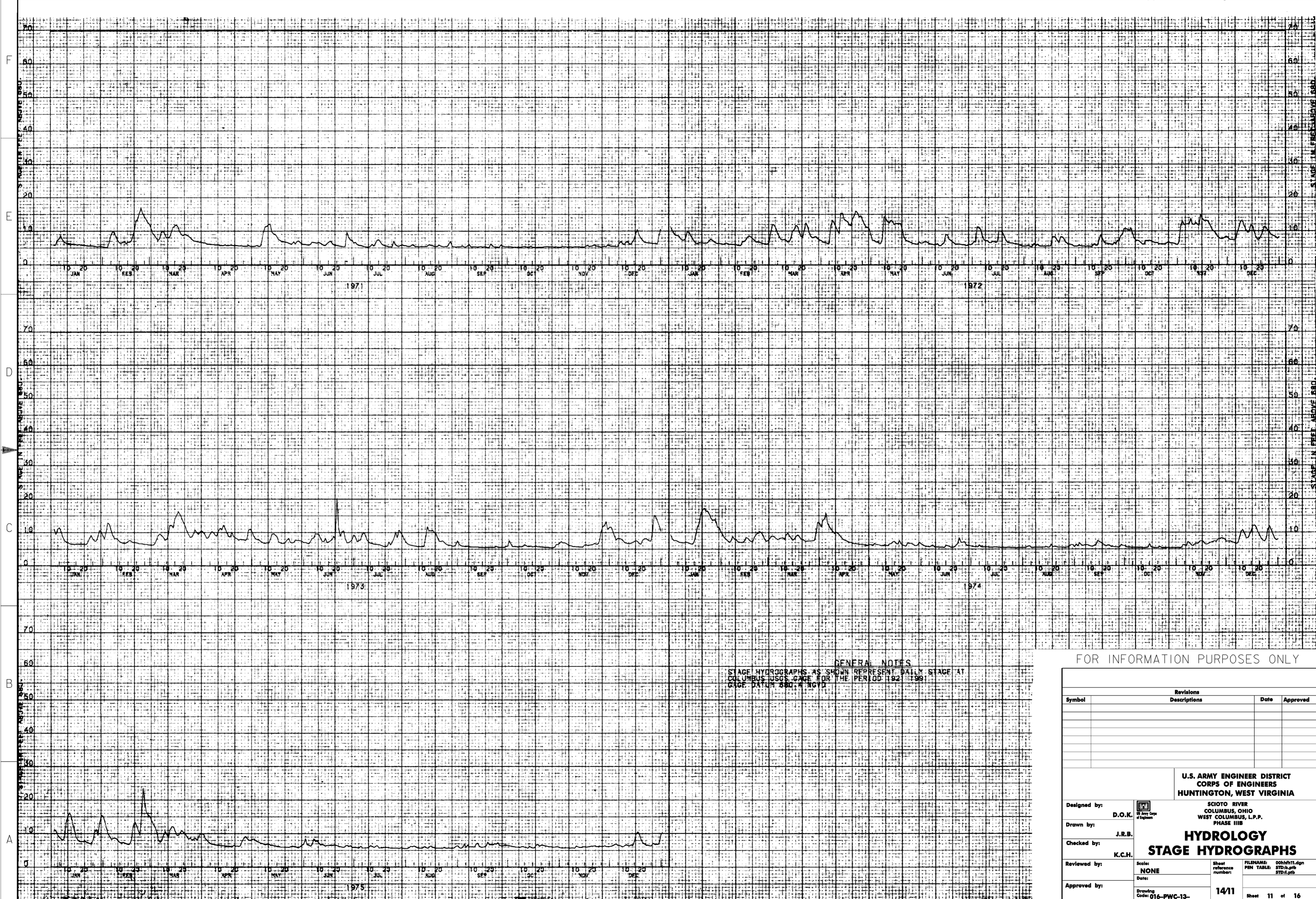
Designed by: **D.O.K.**  
 Drawn by: **J.R.B.**  
 Checked by: **K.C.H.**  
 Reviewed by: **Scale: NONE**  
 Approved by: **Date:**

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

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

**HYDROLOGY  
 STAGE HYDROGRAPHS**

Drawing Code: **016-PWC-13-14/10**  
 Sheet **10** of **16**



**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		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 IIB

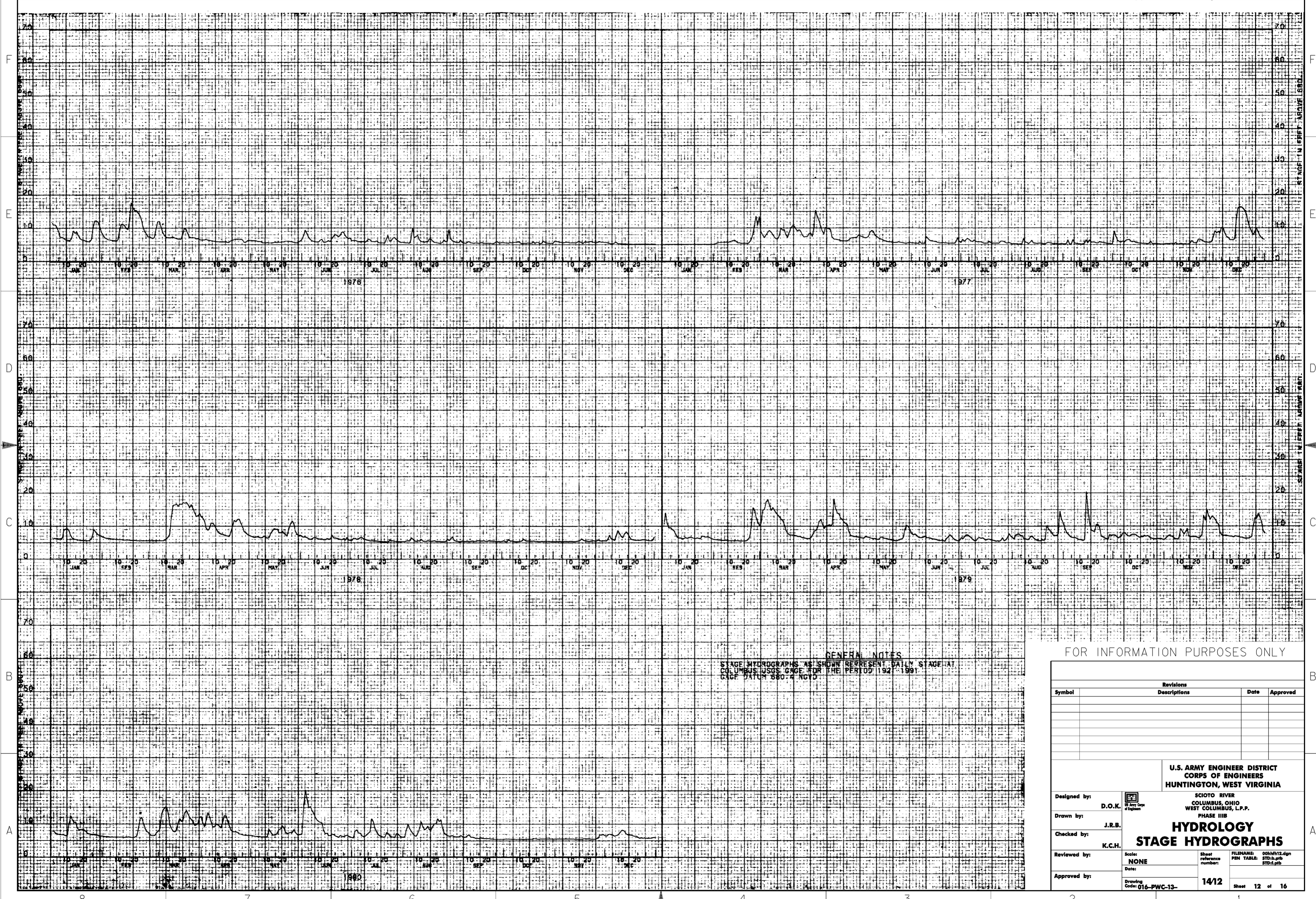
**HYDROLOGY**  
**STAGE HYDROGRAPHS**

Designed by: D.O.K.  
 Drawn by: J.R.B.  
 Checked by: K.C.H.  
 Reviewed by:   
 Approved by:

Scale: NONE  
 Date:

Sheet reference number: 14/11  
 FILENAME: 00h1h11.dgn  
 PEN TABLE: STD.b.plt  
 STD.d.plt

Drawing Code: 016-PWC-13-  
 Sheet 11 of 16



**GENERAL NOTES**  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1927-1991.  
 GAGE DATUM 580.4 NGVD

FOR INFORMATION PURPOSES ONLY

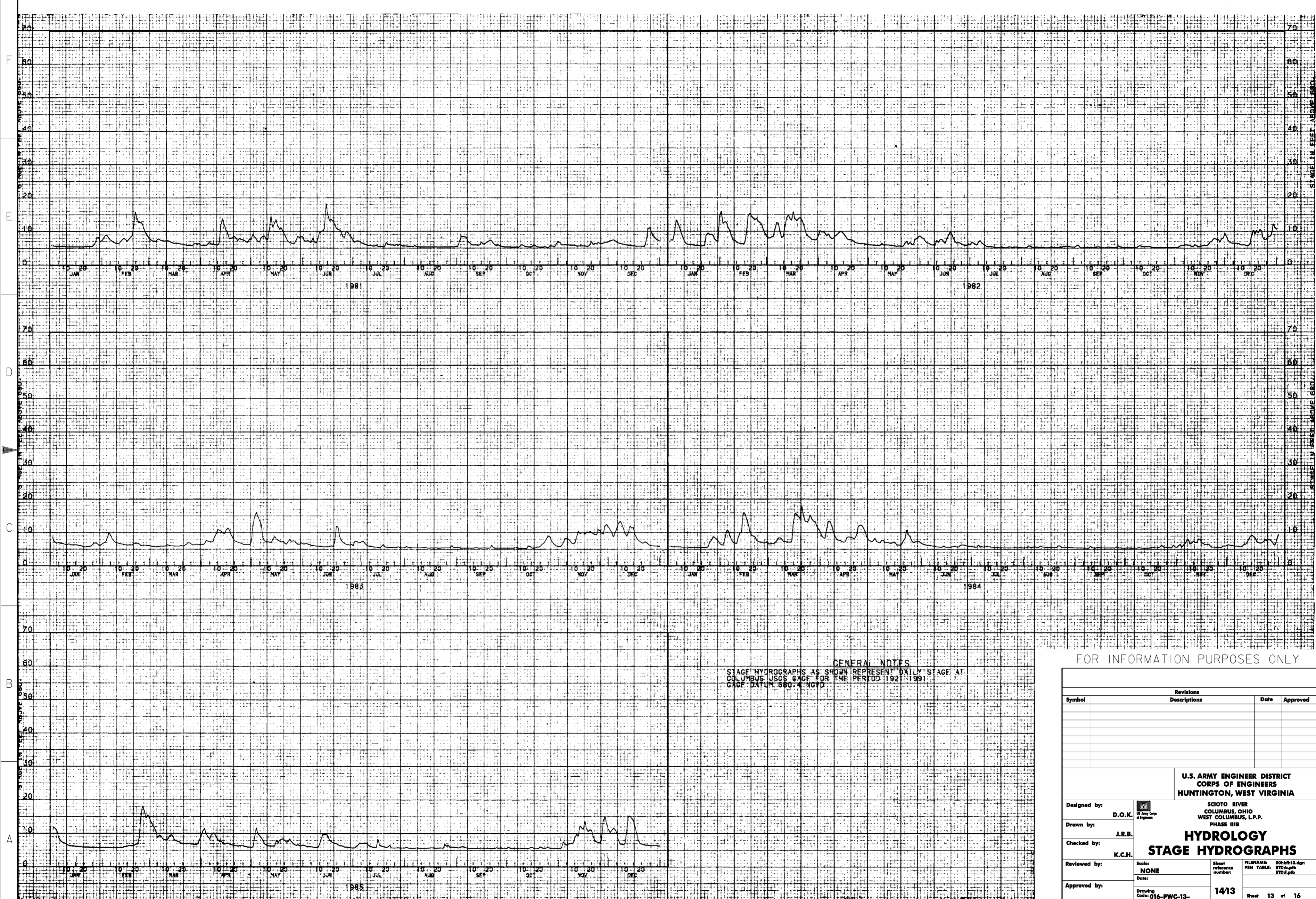
Revisions			
Symbol	Descriptions	Date	Approved

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

SCIO TO RIVER  
 COLUMBUS, OHIO  
 WEST COLUMBUS, L.P.P.  
 PHASE III B  
**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:   
 Drawing Code: 016-PWC-13-

FILENAME: 00h1h12.dgn  
 PEN TABLE: STD.b.ptb  
 STD.d.ptb  
 Sheet reference number: 14/12  
 Sheet 12 of 16



**GENERAL NOTES**  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1921-1991  
 GAGE DATUM 680.4 NGVD

FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III	
Designed by: D.O.K.	FILENAME: 00h1h13.dgn PEN TABLE: STD-b.tbl STD-d.tbl	SHEET REFERENCE NUMBER: 14/13 SHEET 13 of 16	
Drawn by: J.R.B.			
Checked by: K.C.H.			
Reviewed by: NONE			
Approved by: Date:	Drawing Code: 016-PWC-13-	14/13	





**GENERAL NOTES**  
 STAGE HYDROGRAPHS AS SHOWN REPRESENT DAILY STAGE AT  
 COLUMBUS USGS GAGE FOR THE PERIOD 1927-1991  
 GAGE DATUM 660.4 NGVD

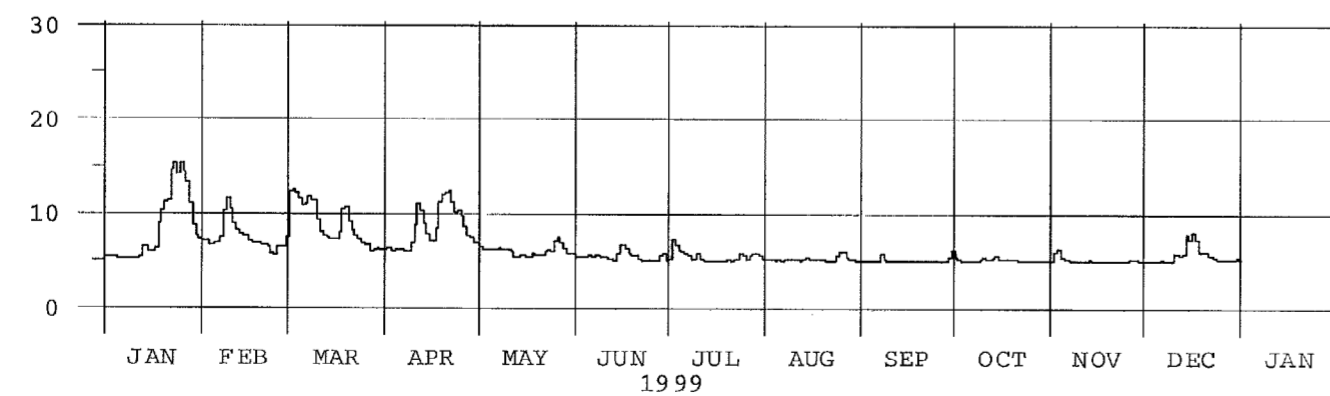
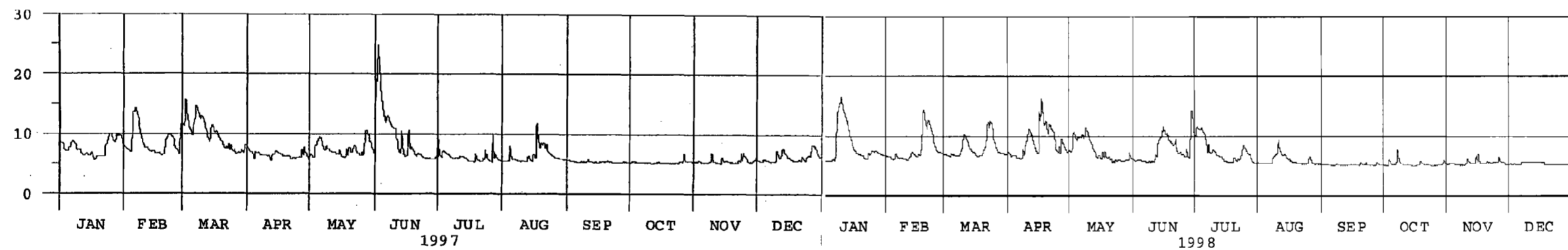
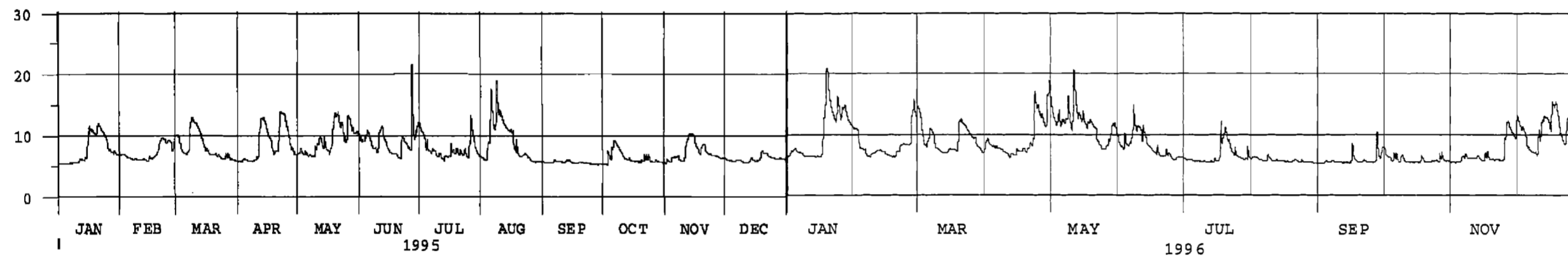
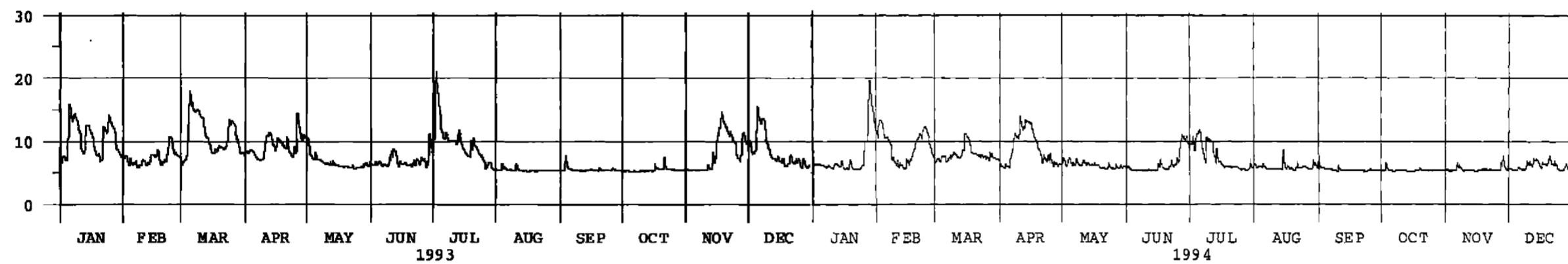
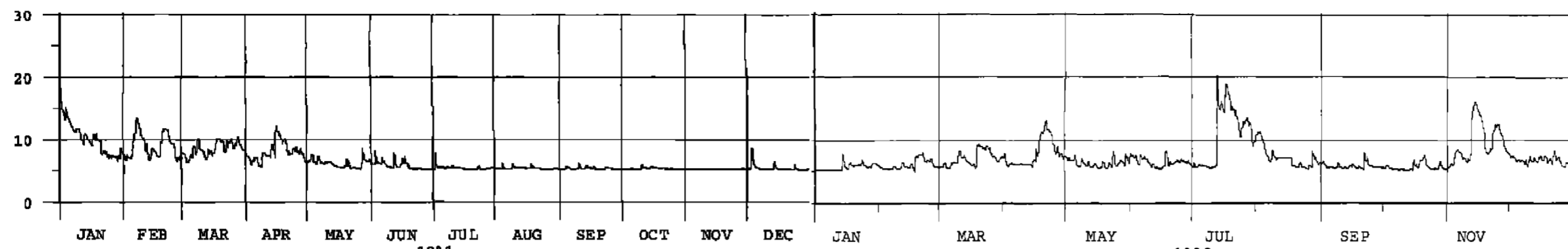
FOR INFORMATION PURPOSES ONLY

Symbol	Revisions		Date	Approved
	Descriptions			

<b>U.S. ARMY ENGINEER DISTRICT          CORPS OF ENGINEERS          HUNTINGTON, WEST VIRGINIA</b>				
Designed by: <b>D.O.K.</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE III B		
Drawn by: <b>J.R.B.</b>		<b>HYDROLOGY          STAGE HYDROGRAPHS</b>		
Checked by: <b>K.C.H.</b>		Scale: <b>NONE</b>	Sheet reference number: <b>14/14</b>	FILENAME: 00hsh14.dgn PEN TABLE: STD.b.ptb STD.d.ptb
Reviewed by: <b>K.C.H.</b>		Date: <b>NONE</b>	Drawing Code: <b>016-PWC-13-</b>	
Approved by:	Date:	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 1921-1999 GAGE DATUM 680.4 NGVD.  
 PLOTS OBTAINED FROM SCANNED IMAGES OF CELRH-EC-WW SATELLITE DATA W/VERTICAL SCALE RANGE 0-100.

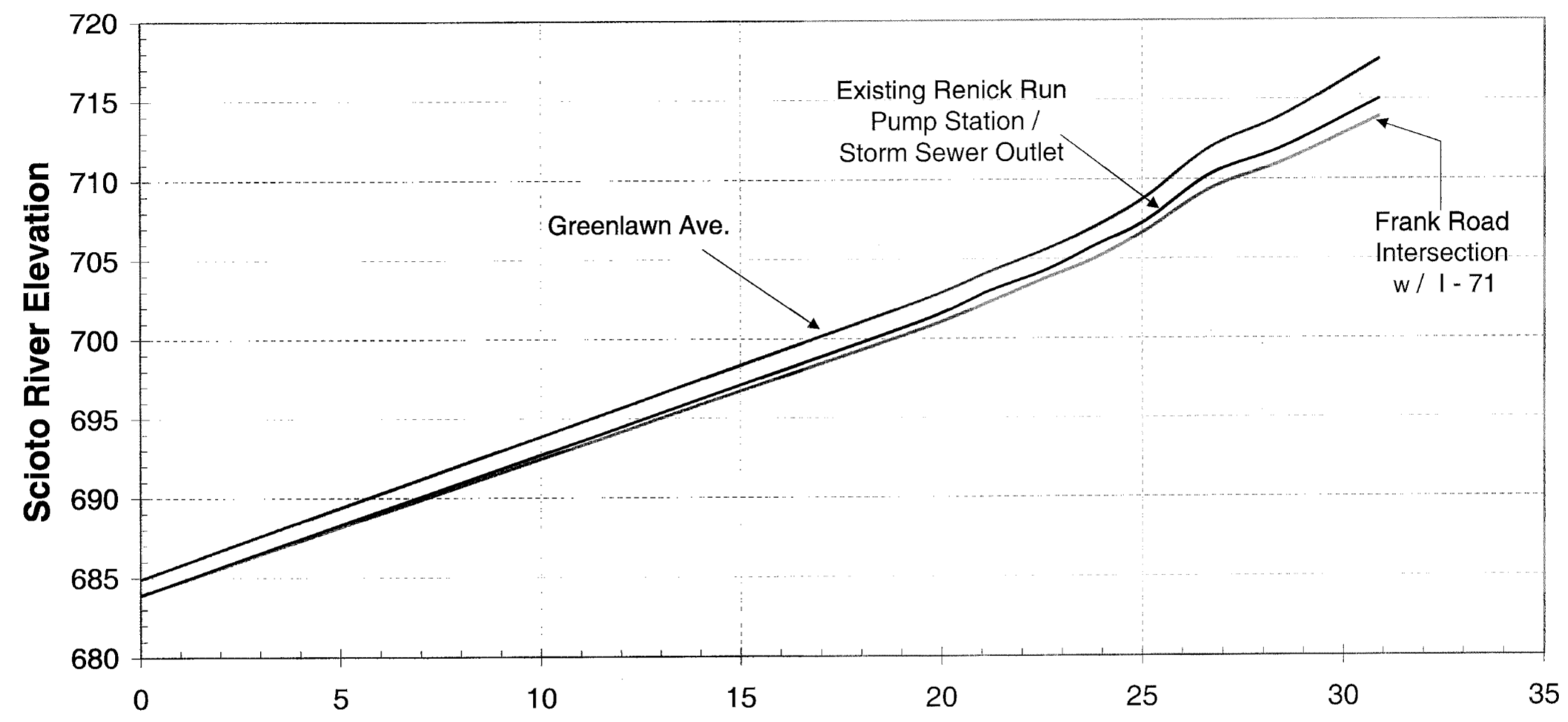
FOR INFORMATION PURPOSES ONLY

Revisions			
Symbol	Descriptions	Date	Approved

<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>			
Designed by:	V.L.P.	SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB <b>HYDROLOGY STAGE HYDROGRAPHS</b>	
Drawn by:	J.R.B.		
Checked by:	K.C.H.		
Reviewed by:			
Approved by:			
Scale:	NONE	Sheet reference number:	1415
Date:		FILENAME:	00h1h15.dgn
Drawing Code:	016-PWC-13-	STD:	b.plt
		STD:	l.plt
			Sheet 15 of 16

for Phase IIIB



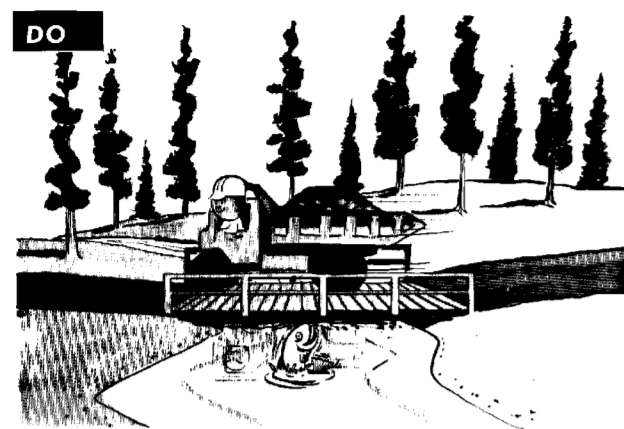
**CORRELATION CURVE**

FOR INFORMATION PURPOSES ONLY

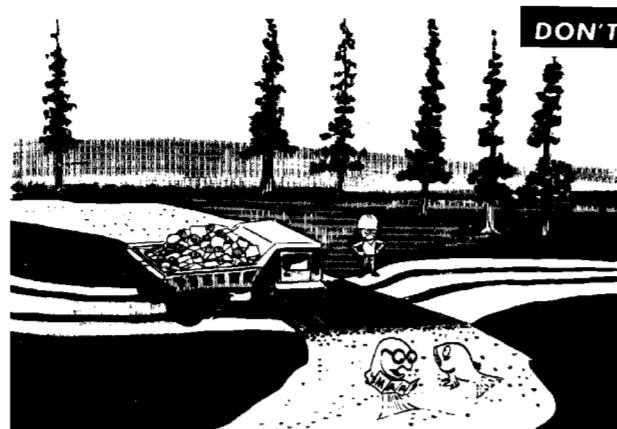
Revisions			
Symbol	Descriptions	Date	Approved

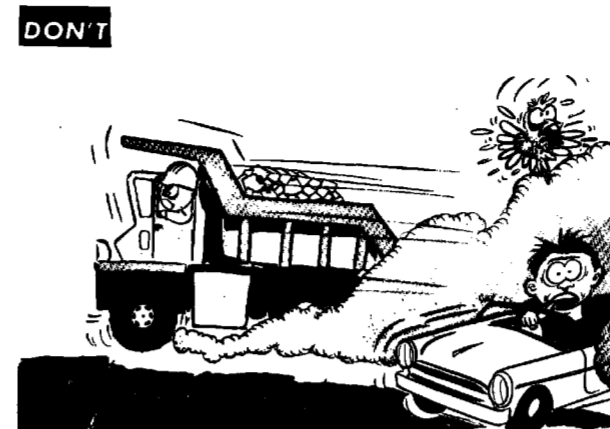
<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>			
Designed by: <b>K.C.H.</b>		SCIOTO RIVER COLUMBUS, OHIO WEST COLUMBUS, L.P.P. PHASE IIIB	
Drawn by: <b>JOE SALVINO</b>		<b>HYDROLOGY CORRELATION CURVE</b>	
Checked by: <b>JIM ASHWORTH</b>	Scale: <b>NONE</b>	Sheet reference number: <b>14/16</b>	FILENAME: 00hshf16.dgn PIN TABLE: STD-b.plt STD-d.plt
Reviewed by: <b>KEN HALSTEAD</b>	Date:	Drawing Code: <b>016-PWC-13-</b>	Sheet <b>16</b> of <b>16</b>
Approved by:	Date:	Drawing Code:	Sheet



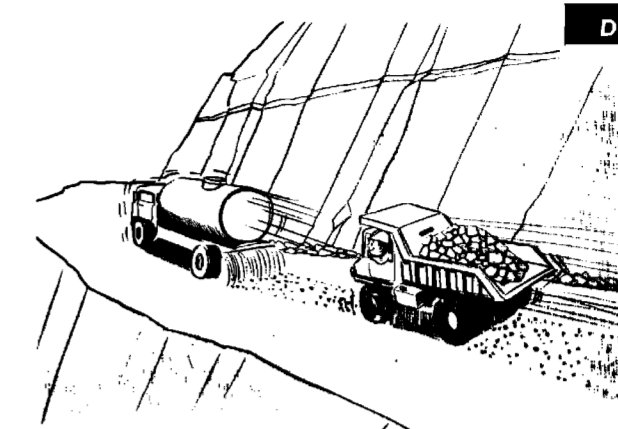
**EPM No. 20.**—Where frequent stream crossings are necessary, temporary culverts or bridges shall be provided.



**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.



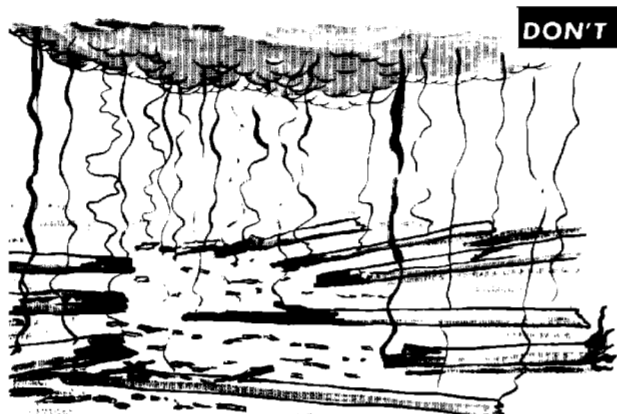
**EPM No. 22.**—The Contractor shall maintain all excavations, embankments, stockpiles, roads, plant sites, waste areas, borrow areas, and all other work areas within or without the project boundaries free from dust which would cause a hazard or nuisance to others.



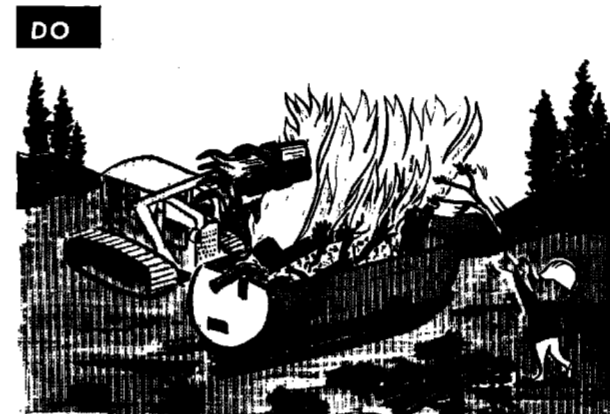
**EPM No. 23.**—Approved temporary methods of stabilization consisting of sprinkling, chemical treatment, light bituminous treatment or equal methods shall be provided to control dust.



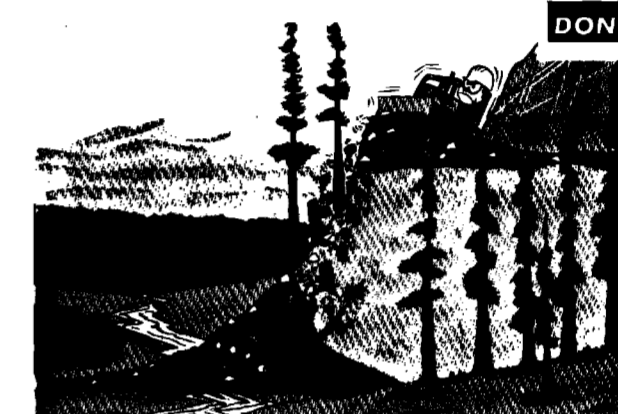
**EPM No. 24.**—Except as restricted by the Fire Control Officer, burning shall assure continuous, rapid and complete combustion. To meet this requirement, burning piles shall be kept under constant attendance by heavy equipment and operators who shall stack or push in burning piles from the edges, or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



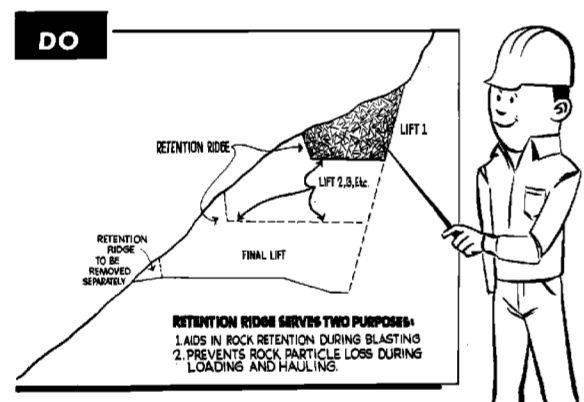
**EPM No. 25.**—Burn piles and individual pieces of burned material shall not be allowed to smolder.



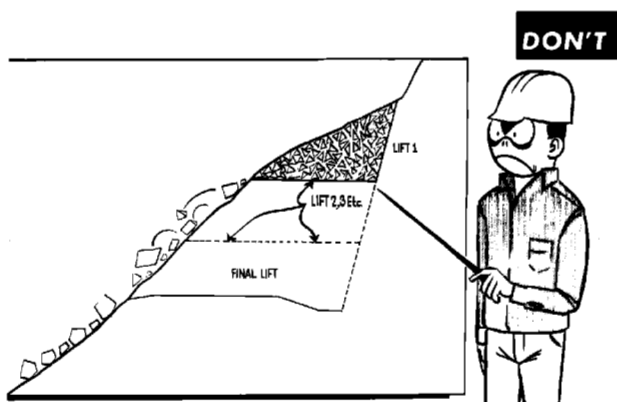
**EPM No. 26.**—High heat burning shall be done in burning boxes, portable incinerators, open pits or trenches.



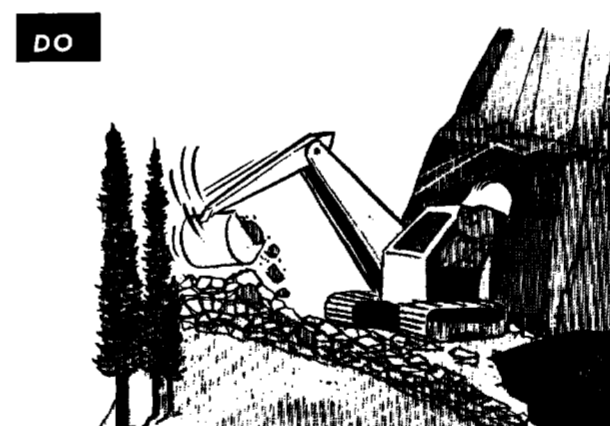
**EPM No. 27.**—Waste materials shall not be dumped on slopes.



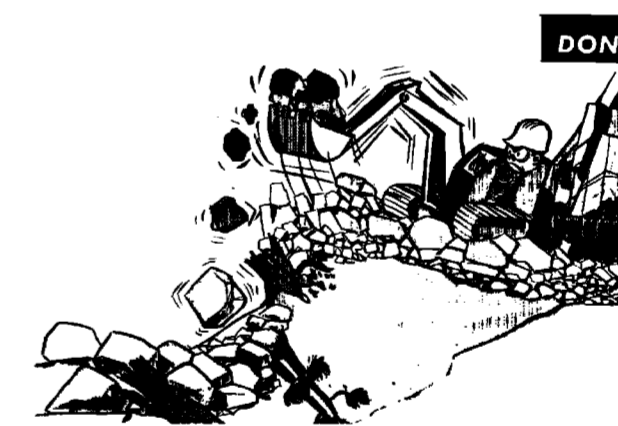
**EPM No. 28.**—The pattern of drilling and the depth, size and loading of holes along the outer edge of banded cuts shall be such as to provide retention ridges of rock to act as a restraint against loss of material down the slope.



**EPM No. 28.**—The pattern of drilling and the depth, size and loading of holes along the outer edge of banded cuts shall be such as to provide retention ridges of rock to act as a restraint against loss of material down the slope. (See DO for proper procedure.)



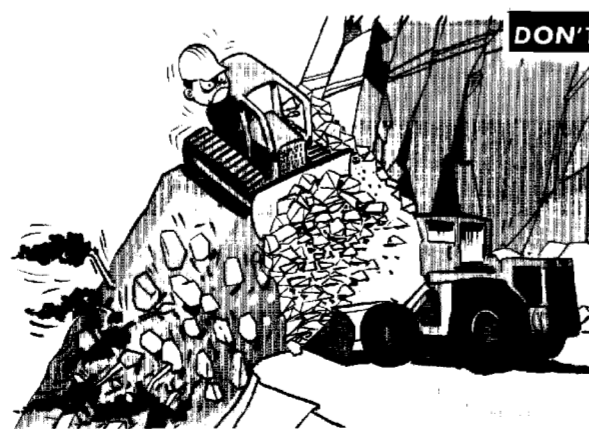
**EPM No. 29.**—Excavation of blasted material shall be conducted in such a manner that operation of excavation equipment does not contribute to loss of material down the slope.



**EPM No. 29.**—Excavation of blasted material shall be conducted in such a manner that operation of excavation equipment does not contribute to loss of material down the slope. (See DO for proper procedure.)



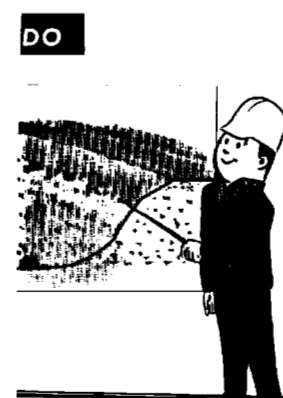
**EPM No. 30.**—Full U-blades shall be used on dozers excavating on slopes.



**EPM No. 30.**—Full U-blades shall be used on dozers excavating on slopes. (See DO for proper procedure.)



**EPM No. 31.**—In other than solid rock, the tops of excavated slopes shall be rounded off as shown on the contract drawings.




**EPM No. 32.**—Loose rocks, cobbles and boulders falling outside the finished slopes shall be removed where operations for removal of such material will not deface the landscape.

FOR INFORMATION ONLY

Revisions			
Symbol	Descriptions	Date	Approved

<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA</b>			
Designed by:	 <b>ENVIRONMENTAL PROTECTION MEASURES</b>	Scale: <b>NONE</b>	Sheet reference number:
Drawn by:		Date:	00evsd01.dgn
Checked by:		Drawing Code: <b>Z2-107/1</b>	Sheet <b>1</b> of <b>2</b>
Reviewed by:			
Approved by:			



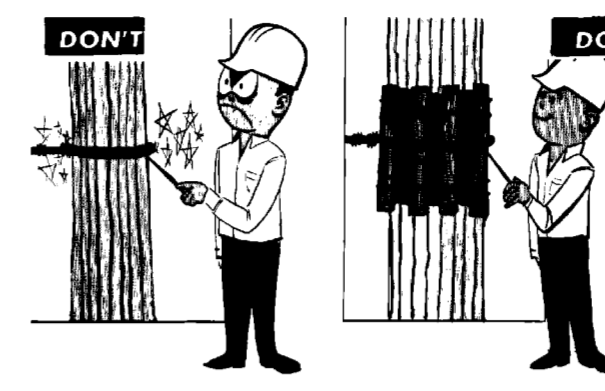
**EPM No. 1.**—The Contractor shall conduct frequent on the job training courses, not less than monthly, for the purpose of emphasizing the environmental protection requirements of the contract. He shall emphasize that prevention of damage to the environment is the primary goal and that restoration should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



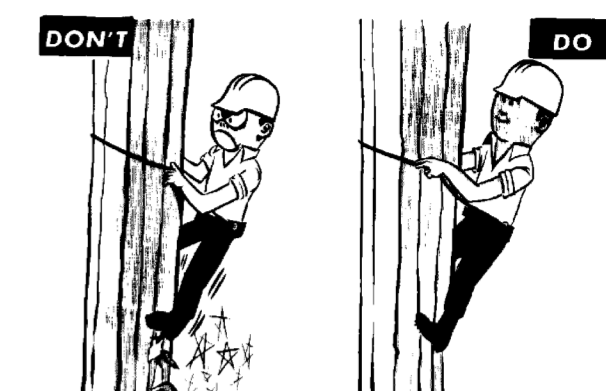
**EPM No. 2.**—Rock faces and other interesting geologic features, including natural boat landings, which will be exposed by drawdown of the reservoir shall be preserved.



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



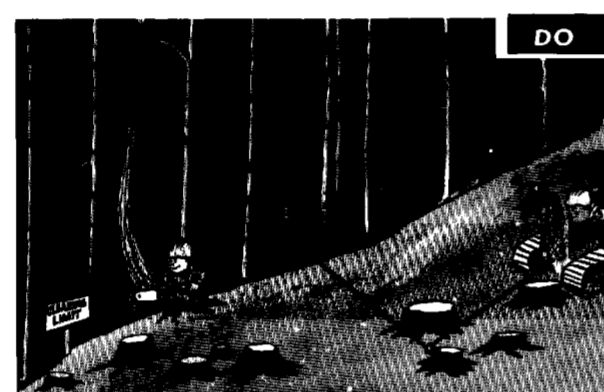
**EPM No. 4.**—Except in areas to be cleared, no ropes, cables or guys shall be fastened to or attached to trees unless specifically authorized by the Contracting Officer. Where such anchorage is permitted, the trunk shall first be wrapped with not less than 4 layers of burlap or equivalent padding over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



**EPM No. 5.**—Where tree climbing is necessary, the use of climbing spurs will not be permitted.



**EPM No. 6.**—During clearing operations, trees and debris shall not be allowed to fall outside the clearing limits where such fall would damage or injure trees and shrubs which are to remain and where operations for removal of fallen materials will damage or injure trees and shrubs which are to remain.



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



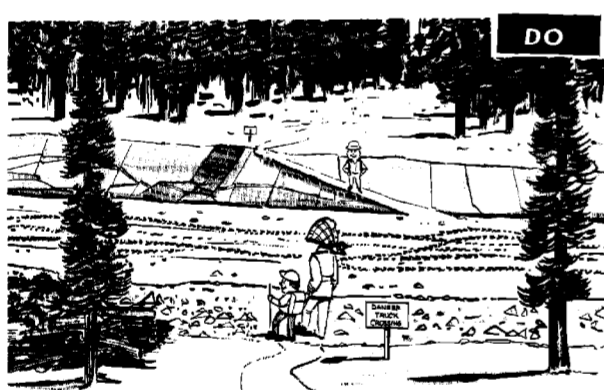
**EPM No. 8.**—All trimming or pruning shall be done with saws or pruning shears. Tree trimming with axes will not be permitted.



**EPM No. 9.**—All treated wounds and specified pruning cuts shall be painted with an approved tree pruning compound of a color approximately matching the color of the bark.



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



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



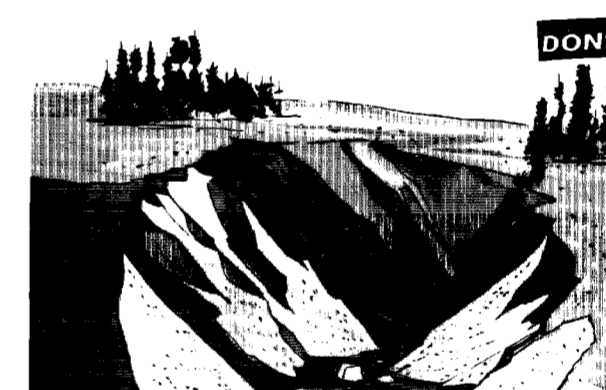
**EPM No. 12.**—When work is completed, whether on Government-owned lands or on private lands, all camp, storage and other contractor's buildings shall be removed, and the sites restored to a neat and presentable condition appropriate to the landscape, unless otherwise specified.



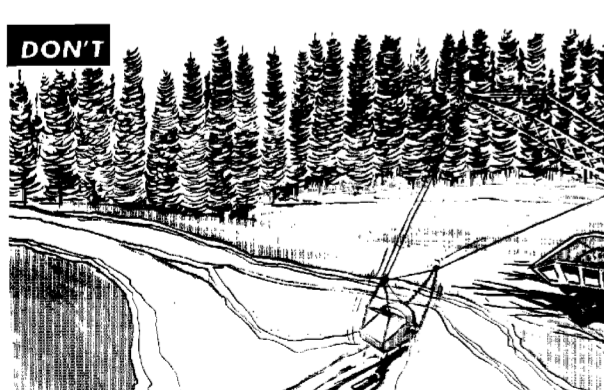
**EPM No. 13.**—The contractor shall erect log barriers in specified locations to prevent excavated material from escaping down the slope. The log barriers shall be placed at the edge of the cleared area or in other locations up the slope as approved by the Contracting Officer.



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



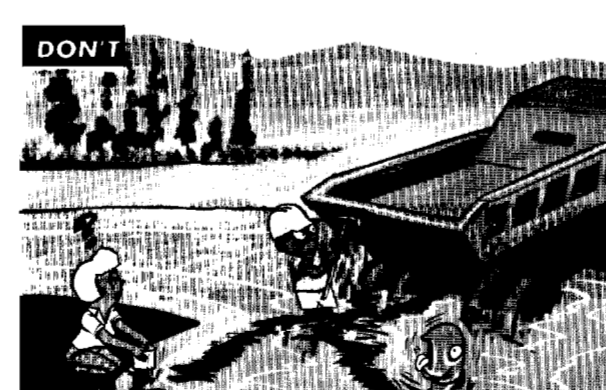
**EPM No. 15.**—Slopes of the borrow site shall be graded and dressed to blend with the adjacent terrain.



**EPM No. 16.**—Borrow areas shall not be located in or adjacent to live streams.



**EPM No. 17.**—At all times of the year, special measures shall be taken to prevent chemical, fuel, oils, greases, vituminous 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.

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Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS HUNTINGTON, WEST VIRGINIA			
Designed by: Drawn by: Checked by: Reviewed by: Approved by:	Scale: NONE Date: Drawing Code: Z2-107/2	Sheet reference number: 00evsd02.dgn Sheet 2 of 2	ENVIRONMENTAL PROTECTION MEASURES