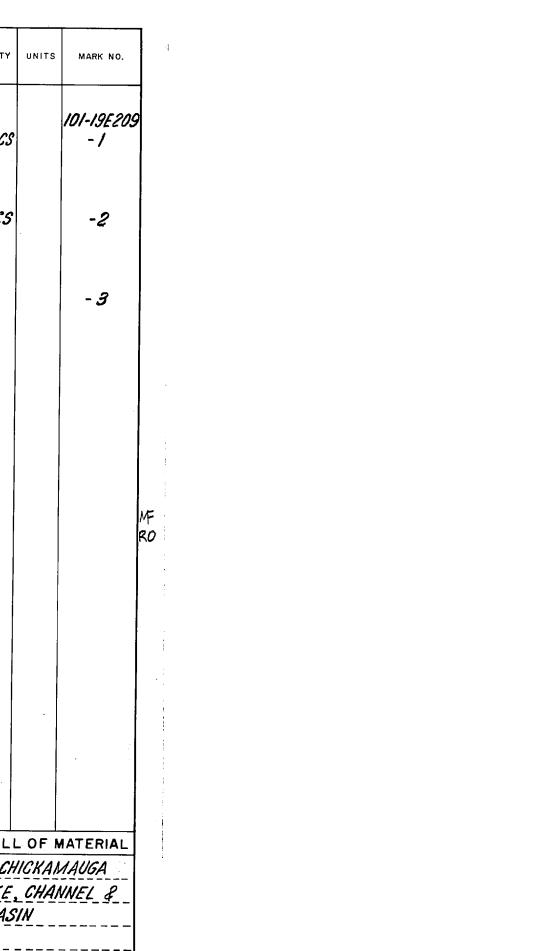
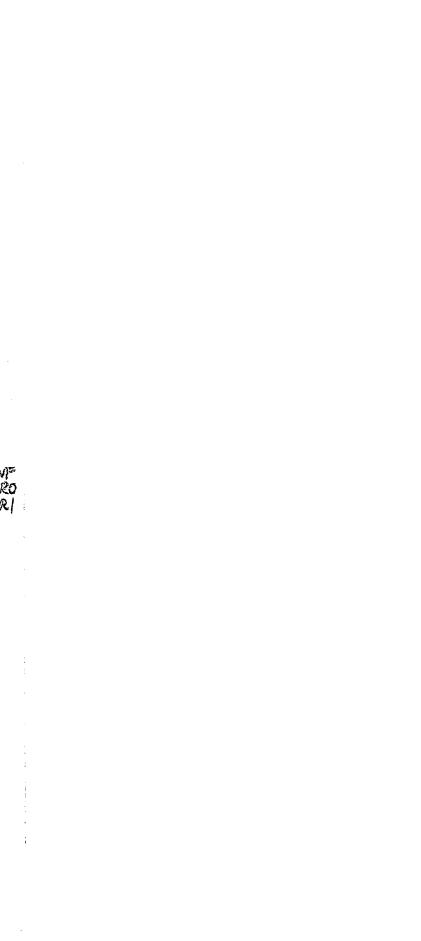
CONTRACT REFERENCE OR REQUISITION NO.	ITEM	CLASSIFI CATION	TENNESSEE VALLEY AUTHORITY - DIVISION OF ENGINEERING	QUANTITY	UNITS	MARK NO.
C			48"D PRECAST CONCRETE PIPE, ASTM C76-722 CLASS I, 4'-0" LONG WITH COMPRESSION TYPE RUBBER GASKETS, ASTM C443-722	173 PCS		101-19E209 - 1
C			DUCTILE IRON MANHOLE STEPS, NEENAH R-1982-J AS MFD BY NEENAH FOUNDARY CO., NEENAH, WISCONSIN, OR EQUAL	, 46 PCS		-2
C			CAST IRON MANHOLE FRAME & COVER, NEENAH R-1794-V, AS MFD BY NEENAH FOUNDARY CO NEENAH, WISCONSIN, OR EQUAL	2		- 3
					-	
			NOTE: ALL QUANTITIES ARE NET			
DED-11-75)			<u>CIVIL</u> PROJECT S CREEK DETENT	OUTH CH	IICKAN CHAI	
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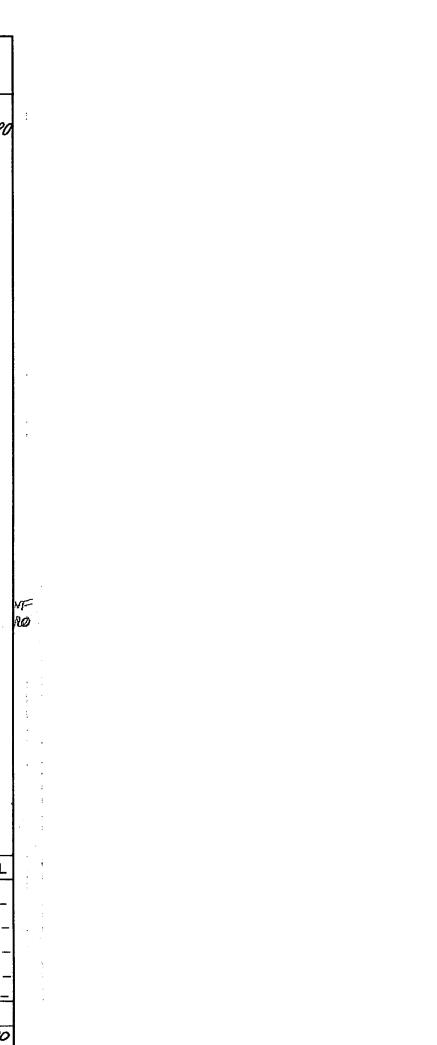


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BY NEEMAH FOUNDARY CO, NEEMAH, WISCONSIN, OR EQUAL       I       I       I         C       #36" D PRECAST CONCRETE PIPE, ASTM C76-729 CLASS III, 4'.0" LONG WITH COMPRESSION TYPE RUBBER GASKETS, ASTM C443-729       B5 PCS       -2         C       #24" D PRECAST CONCRETE PIPE, ASTM C43-729 CLASS III, 4'.0" LONG WITH COMPRESSION TYPE RUBBER GASKETS, ASTM C443-729       30 PCS       -3         C       CAST IRON GRATING, NEENAH R-4891-A, AS MED BY NEENAH FOUNDARY CO., NEENAH, WISCONSIN, OR EQUAL       2       -4         C       DUCTILE IRON MANHOLE STEPS, NEENAH R-1982-J, AS MED BY NEENAH FOUNDARY CO., NEENAH, WISCONSIN, OR EQUAL       24 PCS       -5         WITH CONSCRETE PIPE REQUIRED WILL BE REDUCED.       NOTE : ALL QUANTITIES ARE NET       DILL OF MATERIAL PROJECT SOUTH CHICKAMAUGA CREEK-LEVES, CHAMMEL & DETENTION BASIN         V       1-7.25-78       JUM JUM       JUM JUM       INW       -5         V       7-25-78       JUM JUM       INW       -7       -5         V       T-25-78       JUM JUM       INW       -7       -7         V       T-25-78       JUM JUM       INW       -7       -7         V       T-25-78       JUM JUM       INW       -7       -7         V       T-25-78       JUM JUM       INW       -7       -7       7         V       T-		REFERENCE OR REQUISITION			DESCRIPTION	QUANTITY	UNITS	MARK NO.	
C CLASS III, 4'-0' LONG WITH COMPRESSION TYPE RUBBER GASKETS, ASTM C443-722 (85 PCS) -2 C *24" D PRECAST CONCRETE PIPE, ASTM C76-723 CLASS III, 4'-0" LONG WITH COMPRESSION TYPE RUBBER GASKETS, ASTM C443-722 30 PCS -3 C CAST IRON GRATING, NEENAH R-4891-4, AS MFD BY NEENAH FOUNDARY CO., NEENAH R-4891-4, AS MFD BY NEENAH FOUNDARY CO., NEENAH R-1891-4, AS MFD BY NEENAH FOUNDARY CO., NEENAH R-1891-4, AS MFD BY NEENAH FOUNDARY CO., NEENAH R-1991-4, AS MFD BY NEENAH FOUNDARY CO., NEENAH R-1992-J, AS MFD BY NEENAH FOUNDARY CO. NEENAH, WISCONSIN, OR EQUAL 24 PCS -5 * IF STEEL PIPE IS USED FOR TUNNELING UNDER EXISTING ROADS, QUANTITIES OF CONCRETE PIPE REQUIRED WILL BE REDUCED. NOTE : ALL QUANTITIES ARE NET / 7-125-78 JUM JUM LWN SCON CHEE POWERT SOUTH CHICKAMAUGA CREEK-LEYEE, CHANNEL & DETENTION BASIN 2 -4 DETENTION BASIN 2 -4 DETENTION BASIN C 2 -4 DETENTION BASIN		С			BY NEENAH FOUNDARY CO., NEENAH, WISCONSIN,	1		,	
CLASS III, 4'0" LONG WITH COMPRESSION TYPE RUBBER GASKETS, ASTM CAA3 - 723 30 PCS -3 C CAST IRON GRATING, NEENAH R-4891-A, AS MFD BY NEENAH FOUNDARY CO., NEENAH, WISCONSIN, OR EQUAL C DUCTILE IRON MANHOLE STEPS, NEENAH R-1982-J, AS MFD BY NEENAH FOUNDARY CO. NEENAH, WISCONSIN, OR EQUAL 24 PCS -5 * IF STEEL PIPE IS USED FOR TUNNELING UNDER EXISTING ROADS, QUANTITIES OF CONCRETE PIPE REQUIRED WILL BE REDUCED. NOTE : ALL QUANTITIES ARE NET CIVILBILL OF MATERIAL PROJECT SOUTH CHICKAMAUGA CREEK-LEVEE, CHANNEL & DETENTION BASIN / 255-78 JUM JWW JWW WWW SCS CONCRETE PIPE CONC PIPE 2 7-18-78 JUM WWW CLS		C			CLASS III, 4-0"LONG WITH COMPRESSION		)	-2	1
C DUCTILE IRON MANHOLE STEPS, NEENAH, WISCONSIN, OR EQUAL C DUCTILE IRON MANHOLE STEPS, NEENAH R-1982-J, AS MFD BY NEENAH FOUNDARY CD, NEENAH, WISCONSIN, OR EQUAL 24 PCS -5 ***********************************		С			CLASS III, 4'-O" LONG WITH COMPRESSION			-3	
R-1982-J, AS MFD BY NEENAH FOUNDARY CO NEENAH, WISCONSIN, OR EQUAL * IF STEEL PIPE IS USED FOR TUNNELING UNDER EXISTING ROADS, QUANTITIES OF CONCRETE PIPE REQUIRED WILL BE REDUCED. NOTE : ALL QUANTITIES ARE NET <u>CIVIL</u>		С			BY NEENAH FOUNDARY CO., NEENAH, WISCONSIN,			-4	
Image: State of the state		С			R-1982-J, AS MFD BY NEENAH FOUNDARY CO			-5	
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Image: Second state of the					UNDER EXISTING ROADS, QUANTITIES OF CONCRETE PIPE REQUIRED WILL BE				
Image: Second construction       Image: Second construction         Image: Second construction       Image: Second co				 					
CREEK-LEYEE, CHANNEL & DETENTION BASIN 1 7-25-78 JLM JWW JWW ELS 1 REVISED QUANTITY OF 36"D CONC PIPE 0 7-18-78 JLM HAM HAM JWW ELS KNOXVILLE, TENN DATE 7-18-78				,		<u> </u>			
REVISED QUANTITY OF 36"D CONC PIPE         DWG NO. 101-19E212-182           0         7-18-78 JLM HAM HAM JWAF ELS         KNOXVILLE, TENN DATE 7-18-78	D-11-75)				CREEK-L	EYEE,	CHAN		
(-18-18 ULITI HAITI HAITI JULIT ELS		1	1100			107	575-7		
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	TVA		NO.	1	────┼─────┼───┼──┼┼──┼┼──┼┼─── <b>┟</b> ───┼┼──┼┼──				



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0		12-27	-78 JLM	HAM	HAM	JWW						KNOXVILLE,	TENN DATE	12-	
REV ECN	NO.	DAT				ENGR		SUBM	RECM	APPD		SH / OF /	81 C 1	01-191	BM220 R



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															AMAUGA ION NO. 1
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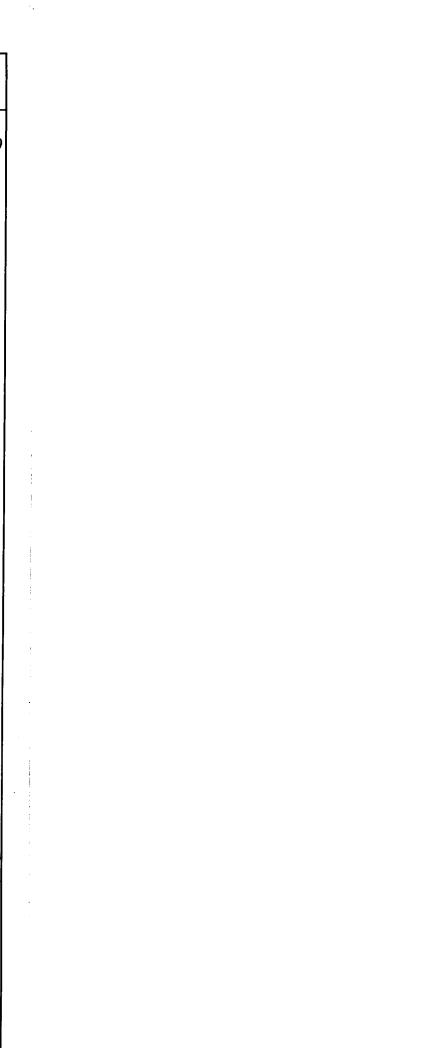
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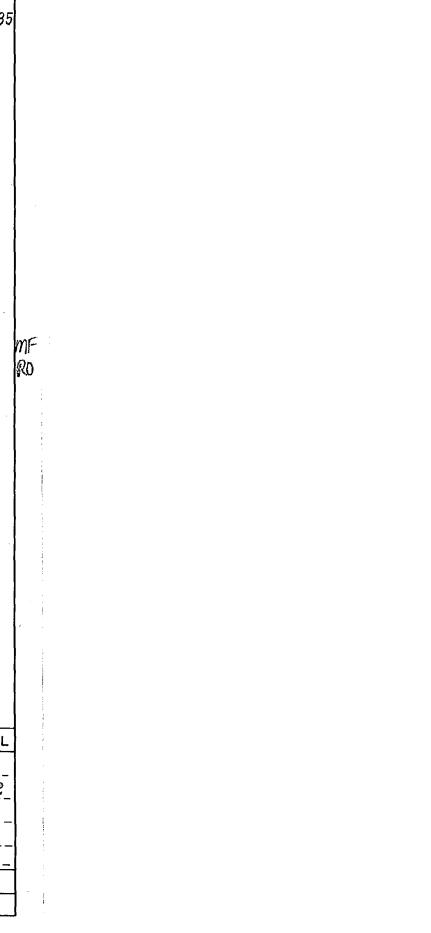
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REFERENCE OR REQUISITION NO.	ITEM	CLASSIFH CATION			DESC	CRIPTION	N					QUANTITY	UNITS	MARK NO.
C			CAST IR BY NEED SIN, OR	NAH FU	UNDAA	EENA RY GO	AH A O., N	7-48 EEN	825, IAH,	AS N WISC	NFD CON-	1		101-19E23 - 1
С			15"D PH 723, CL 10N TYH	ASS I	T, 4' O	" LO.	NG	WITI	Н СС	MPR	PESS	T PCS		-2
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										PROJEC	т <u>50</u> К-Р	OUTH C	HICKA G STA	MAUGA
0		3-31-		IAM HAM	•					PROJEC <u> <u> <u> </u> <u> </u></u></u>	T <u>SU</u> K-PI K-DI	OUTH C UMPIN	HICKA IG STA G 30-1	MAUGA TION NO.

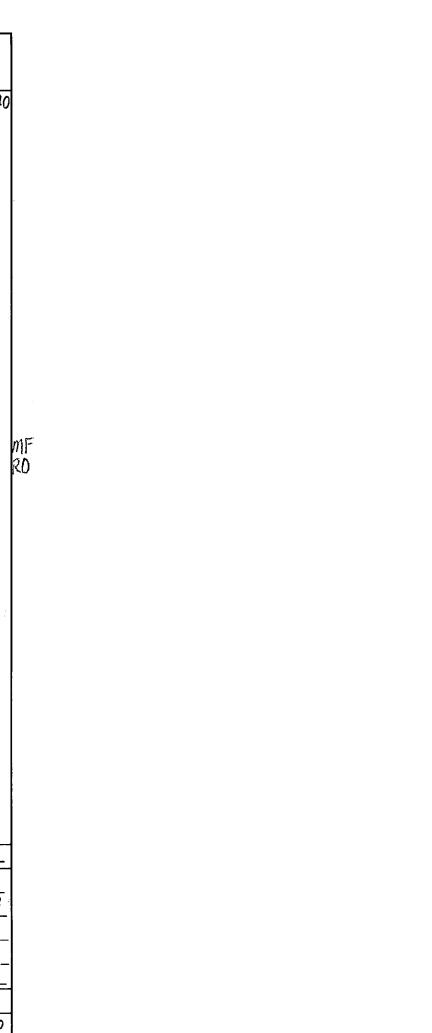
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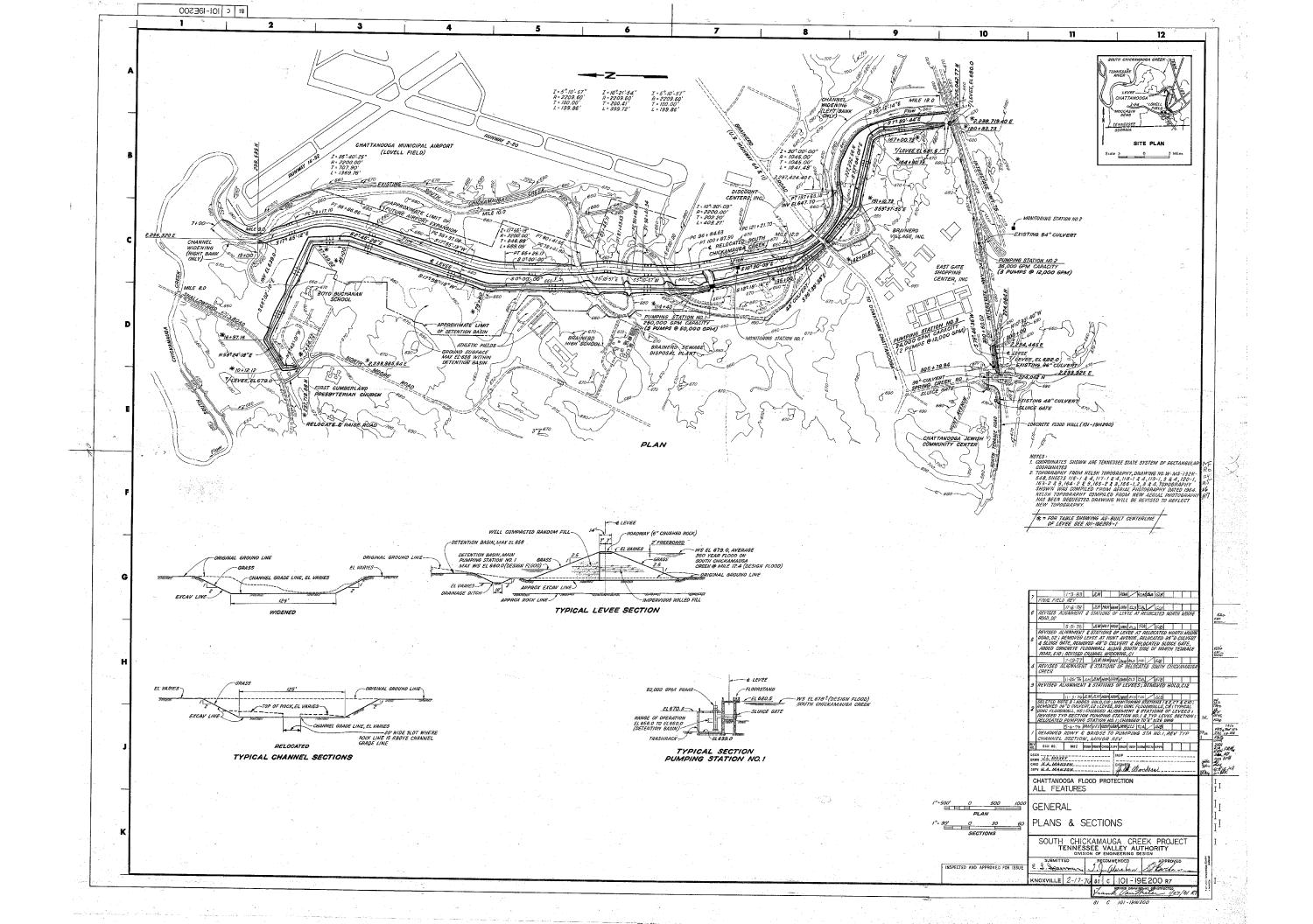


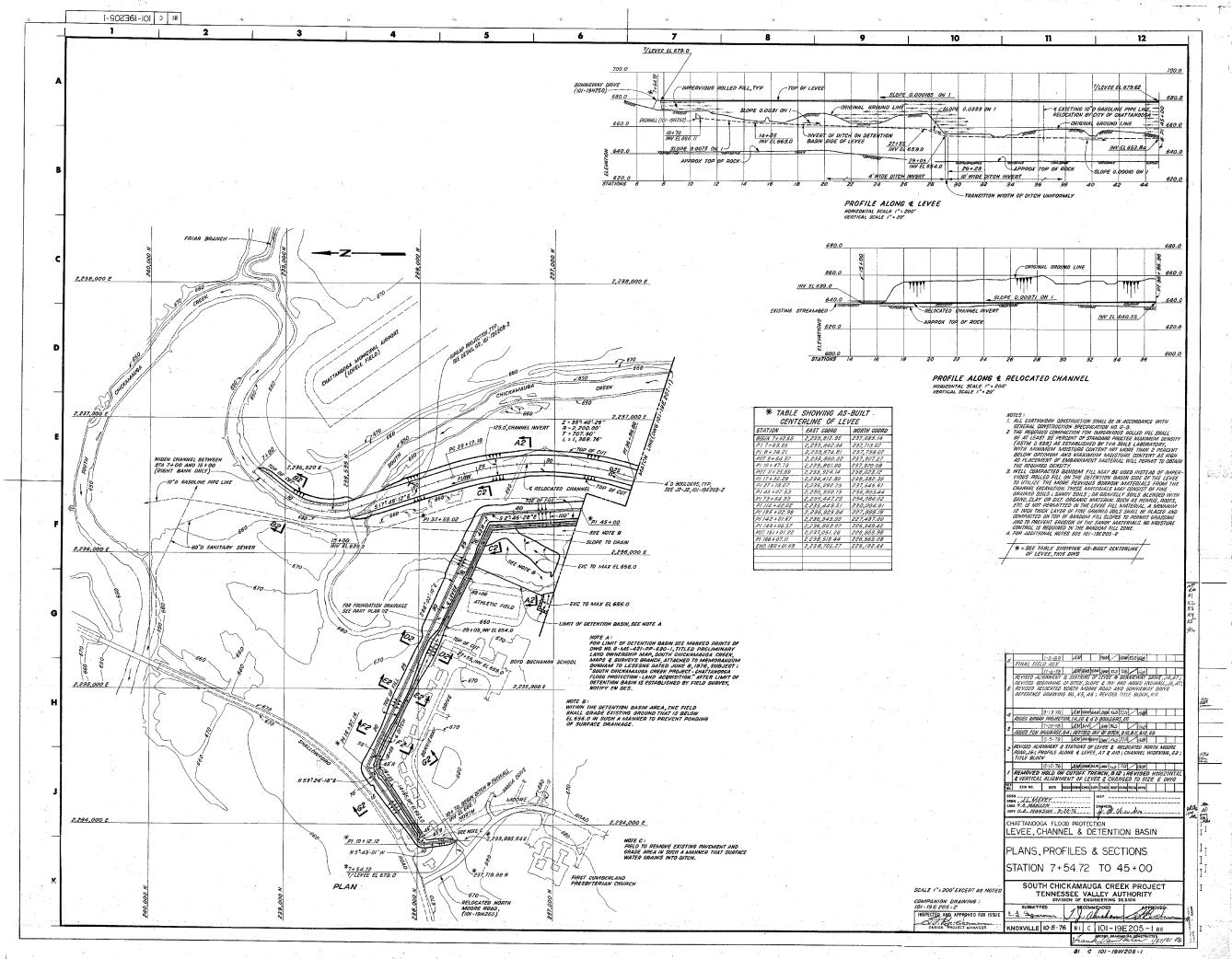
0000000		<b></b> _	TENNESSEE VALLEY AUTHORITY - DIVISION OF ENGINEERING	DESIGN	<del>،</del>	· · · · · · · · · · · · · · · · · · ·
CONTRACT REFERENCE OR REQUISITION NO.	ITEM	CLASSIF CATION	DESCRIPTION	QUANTITY	UNITS	MARK NO.
С			Cast iron manhole steps, Neenah R-1982-J, as mfd by Neenah Foundry Co., Neenah, Wisconsin, or equal	17 pcs		101-19/E=235 - 1
с			4"D std wt black steel pipe, 9" long	6 pcs		-2
С			54"D precast concrete pipe, ASTM C76-72a, Class III,4'-0" long with compression type rubber gaskets, ASTM C443-72a	6 pcs		-3
С	!		54" D precast concrete pipe adapter section 21" long (see 101-19E235-5, detail G5). Strength to conform to ASTM C76-72a, Class III	1		-4
С			Type Ⅲ PVC seals	1200	lf	
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х.	1					
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	N		Note: All quantities are net			
			PROJECT S	BIL		MATERIAL
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				-19E23	5-1 77	
0		6-1-				-1-77
REV ECN	NO.	DAT				1235 RO

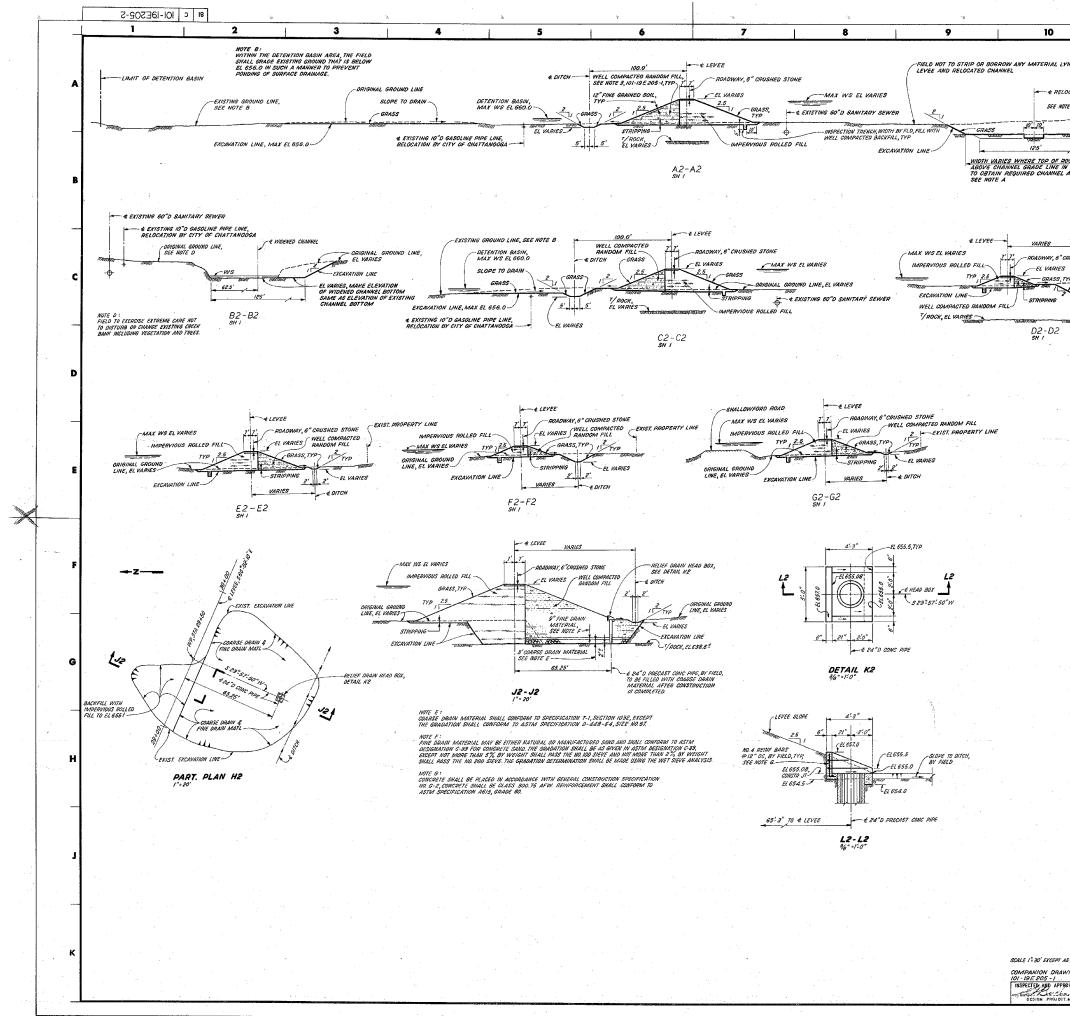


CONTRACT REFERENCE OR REQUISITION NO.	ITEM	CLASSIFH CATION				DESCR	IPTION				QUANTITY	UNITS	MARK NO.	
С					•					J, as mfd n, or equal	17 pcs	<u> </u>	101-19.E. 24( -1	ō
C			4"D std	wt bla	ack ste	el pip	be, 9'	' Ion	3		4 pcs		-2	
C			36"D pr Ⅲ,4'-0 gaskets,	" long	with co	mpre	ession			72 <b>a,</b> Class Ibber	12 pcs		-3	
С			36"D pre (see 101- to ASTI	19 E 24	10-4)	detail	G4).	. Str	sect ength	ion 21" long to conform	1		-4	
С			Туре П	PVC	seals						900	lf		
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<u>r</u>		·	<u>ı</u>				·		<b>_</b>	DWG NO. 10	1-19E 24	0-17	HRU4	-
0		6-1-	77   V.F.V	I RBR H	AM JWW	ELS				KNOXVILLE,	TENN	6-	1-77	



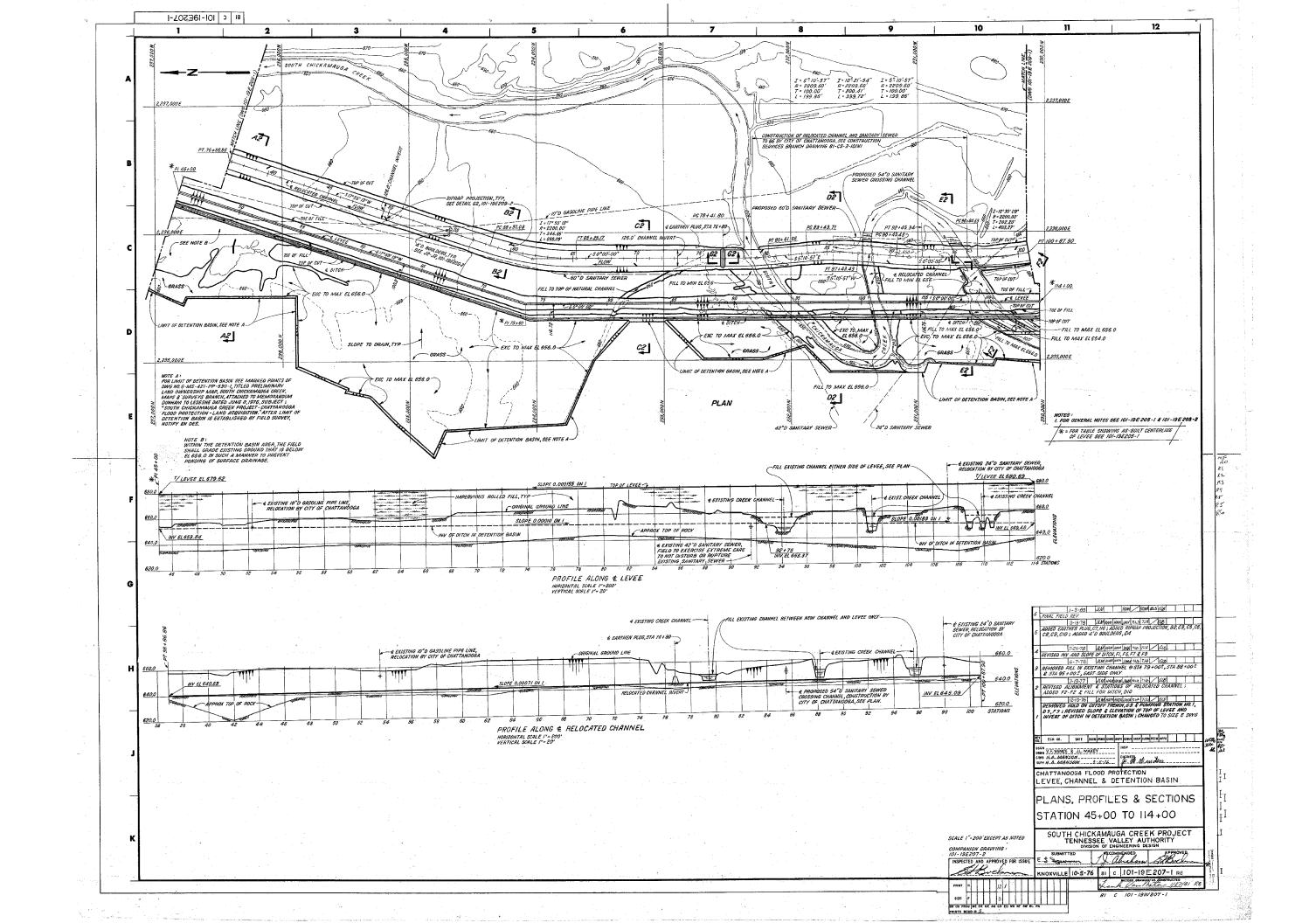


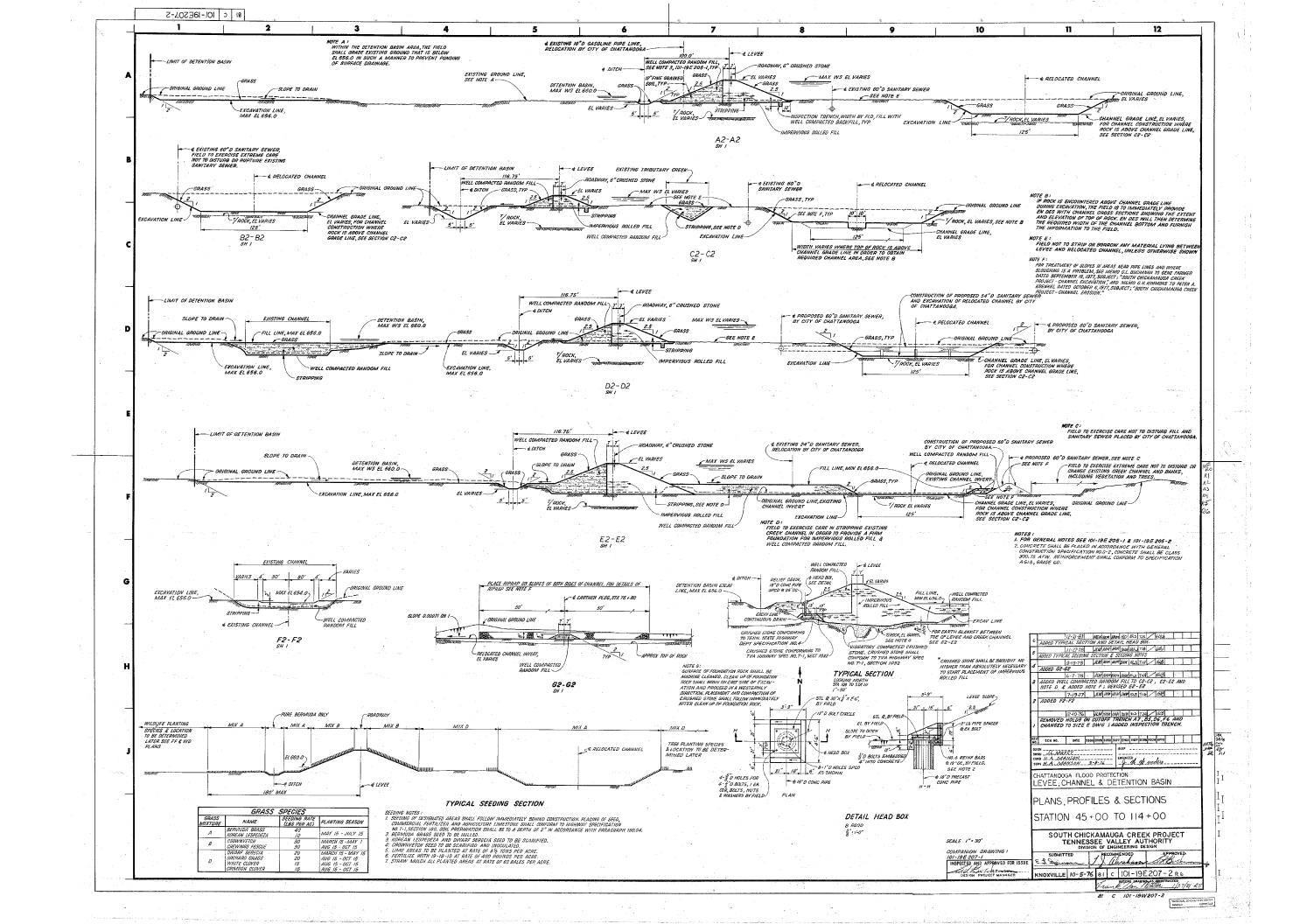


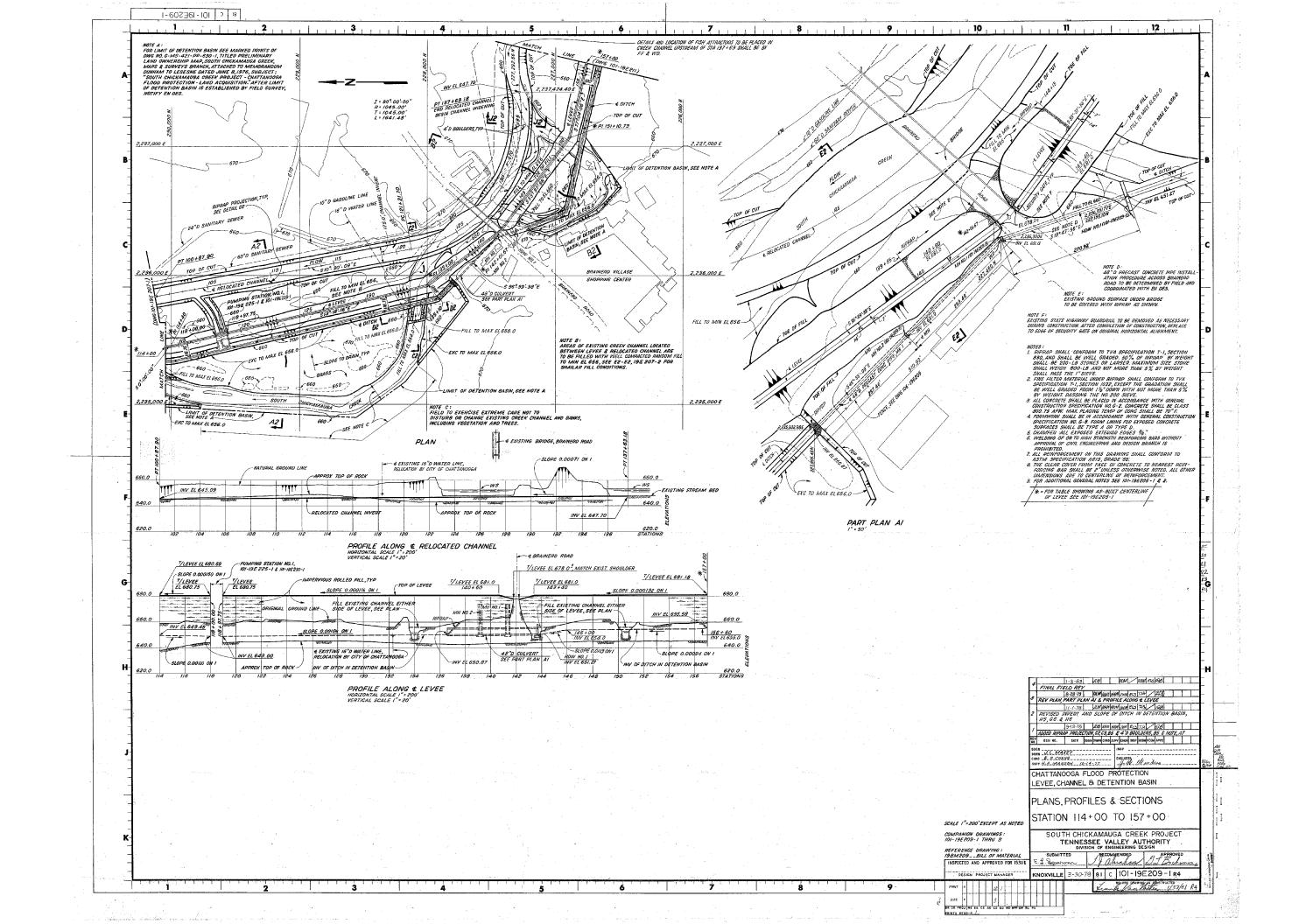


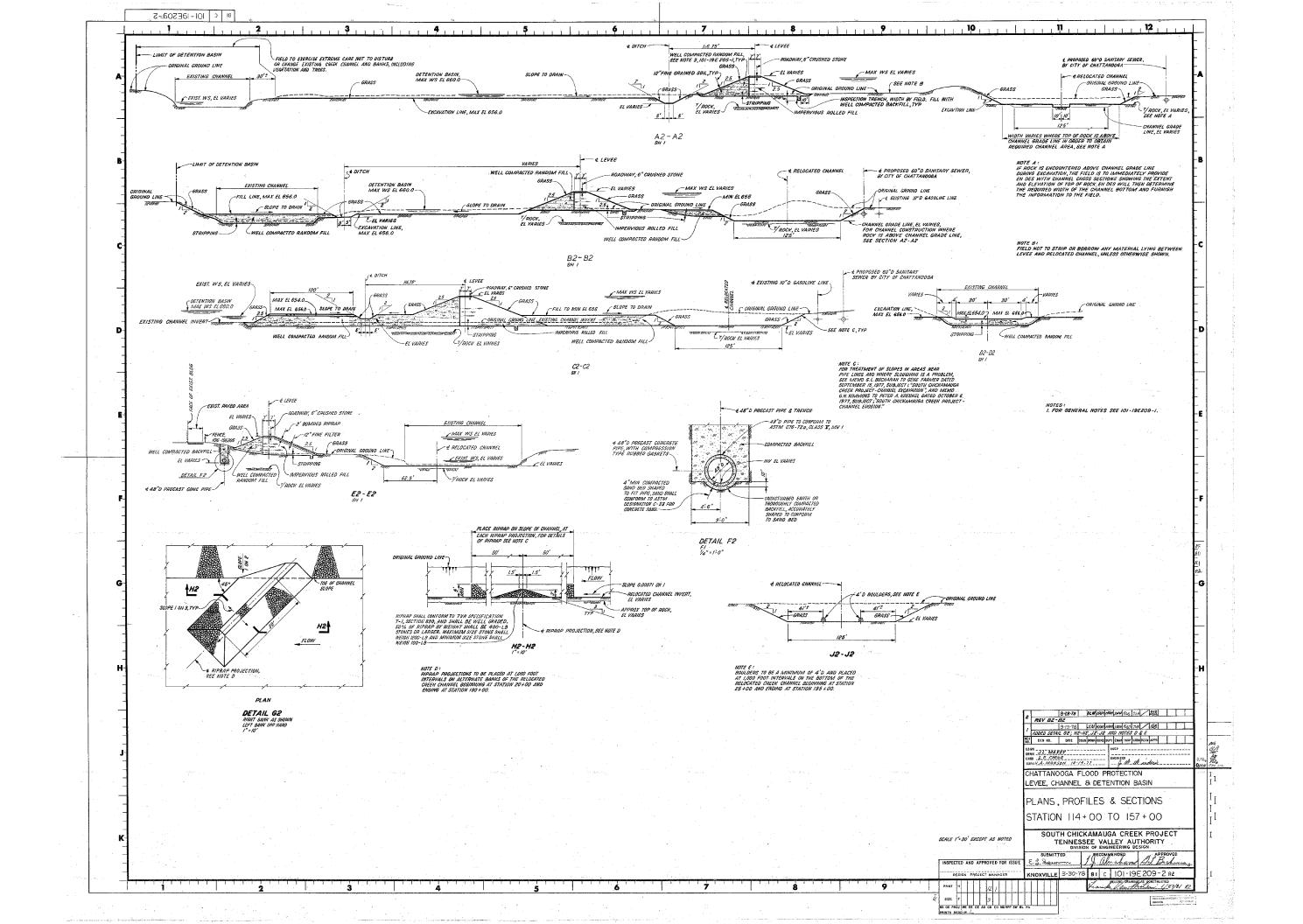
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	ORIGINAL GROUND LINE, EL VARIES		
GRASS	TROCK, EL VARIES, SEE NOTE A		
	CHANNEL GRADE LINE, EL VARIES		
NOCK IS	NOTE A: IF ROCK IS ENCOUNTERED ABOVE CHANNEL		
AREA,	IF ROCK IS ENCOUNTERED ABOVE CHANNEL GRADE LINE DURING EXCANATION, THE FIELD IS TO IMMEDIATELY PROVIDE EN DES WITH CHANNEL CROSS SECTIONS SHOWING THE		
	EN DES WILL THEN DETERMINE THE RE-	,	
	QUIRED WIDTH OF THE CHANNEL BOTTOM AND FURNISH THE INFORMATION TO THE FIELD.		
S			
CRUSHED STONE	ORIGINAL GROUND LINE,		
	EXIST. FENCE & PROPERTY LINE		
	DARKING AREA	-	1
	L VARIES		
2' 2'			
n===r  -	ich		
	NOTE C:		
	FOR TREATMENT OF SLOPES IN AREAS NEAR PIPE LINES AND WHERE SLOUGHING IS A PROBLEM, SEE MEMO G.L. BUCHANAN TO GENE FARMER		
	SLOUGHINNE IS A PROBLEM, SEE MEMO G.L. BUCHANAN TO GENE FARMER DATED SEPTEMBER IS, 1977, SUBJECT, 'SOUTH CHICKAMMAUGA COREH PROJECT-CHANNEL EKCANTON', 'AND MEMO G.H. KIMMANIS TO PETER A. KRENNEL DATED OCTOBER 6. 1977, SUBJECT; 'SOUTH CHICKAMAUGA		
	CREEN PROJECT - CHANNEL FRASION"		
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	NOTES : I. RELOCATION OF ALL UTILITIES INCLUOING ONES NOT SHOWN SHALL BE BY CITY OF CHATTANOOGA. MODIFICATION OF ANY UTILITIES DATENNE UNDER THE ENGREGANCE BE BY CITY OF CHATTANOOGA		
	DE BY GIT OF OMMETANGUES INMOMETAING OF ANY DETTING PASSING UNDER THE LEVEE SHALL BE BY CITY OF CHATTANOOGA IN ACCORDANCE WITH TYA REQUIREMENTS. 2. CONSTRUCTION OF CRUSHED STOME RAQUMAY SHALL BE IN ACCORDANCE WITH HIGHWAY SPECIFICATION NO T-1, SECTION 210.		
. 4	2. CONSTRUCTION OF CRUSHED STONE ROADWAY SHALL BE IN ACCORDANCE WITH HIGHWAY SPECIFICATION NO.T-1, BECTION 210. CRUSHED STONE SHALL CONFORM TO HIGHWAY SPECIFICATION		
	NO. T-1, SECTION 1032. 3. FOR SEEDING OF GRASS IN DESIGNATED AREAS SEE TYPICAL SEEDING		
· · ·	SECTION, 101-19E207-2. 4. FOR ADDITIONAL NOTES SEE 101-19E205-1		
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1 .	· · · · · · · · · · · · · · · · · · ·		<u>.</u>
	5 11-27-78 JLb upon dam Juan scholart (34)		
	4 REVISED TITLE BLOCK, KII	140	6252 5.8.
	3 ADDED PART. PLAN H2, UZ-J2, DETAIL K2, L2-L2 AND NOTES E,F & G	1	
	5-5-78 UM HAM HAM UNV less 7.14 See		
	2 REVISED B2-B2, ADDED NOTE C & NOTE D & REVISED TITLE BLOCK	1	
	1210-76 VIMIMMAM JAW 23 77A GLB		
	REV ECN NO. DATE DSGN ORWN CHKD SUPV ENGR HISP SUBMIRECH APPR		
	DSGN INSP INSP CNRD [C.R.D. [C.A.MARCEY INSP CNRD [C.A.MARCES [C.A.MARCES CNRD [C.A.MARCES [C.A.MARCES] CNRD [C.A.MARCES [C.A.MARCES [C.A.MARCES ]CNRD [C.A.MARCES [C.A.MARCES [C.A.MARCES ]CNRD [C.A.MARCES [C.		
	SUP HA MANSEN 9-80-26 - + At 16 in des	-WCOg 15.44- 546	10
	CHATTANOOGA FLOOD PROTECTION		I filte I
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	PLANS, PROFILES & SECTIONS		$\stackrel{\uparrow 1}{I}$ .
	STATION 7+54.72 TO 45+00	Ľ	II
	SOUTH CHICKAMAUGA CREEK PROJECT	1	1
IS NOTED		1	
WING : IOVED FOR ISSUE	SUBMITTED RECOMMENDED APPROVED	1	1 a
MANAGER	KNOXVILLE 10-5-76 81 C 101-19E 205-2 R5	*	I
	Frank Van hiller 1/27/81 R3		
	81 C 101 - 19W205 - 2 TECHNECKLI METROVAL		
	Levendad Distances provinces	103000775	a i se a se a Se a se a se a se









(FOR FIELD INFORMATION ONLY)

MADE J.L. MAXEY

CHKO HAM

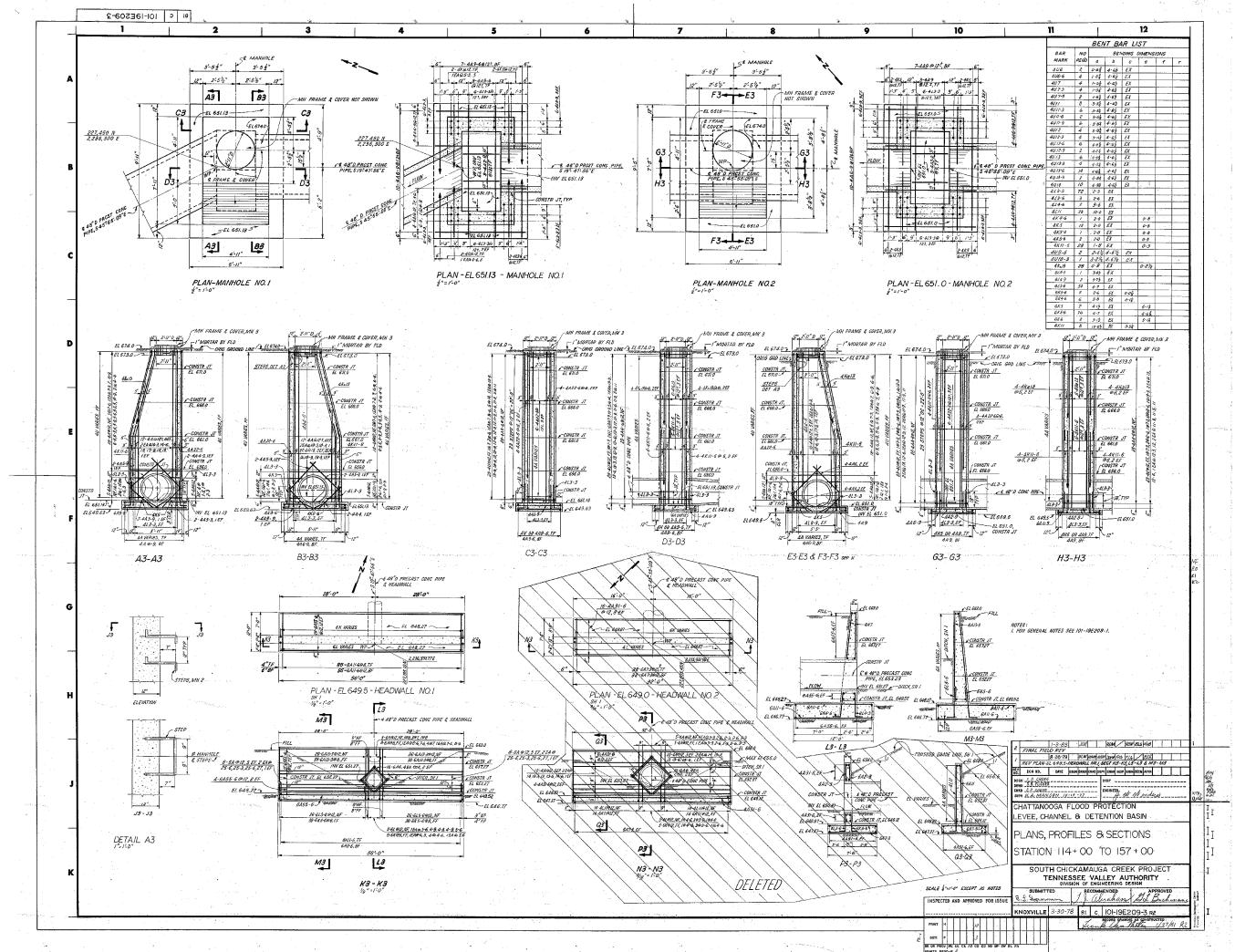
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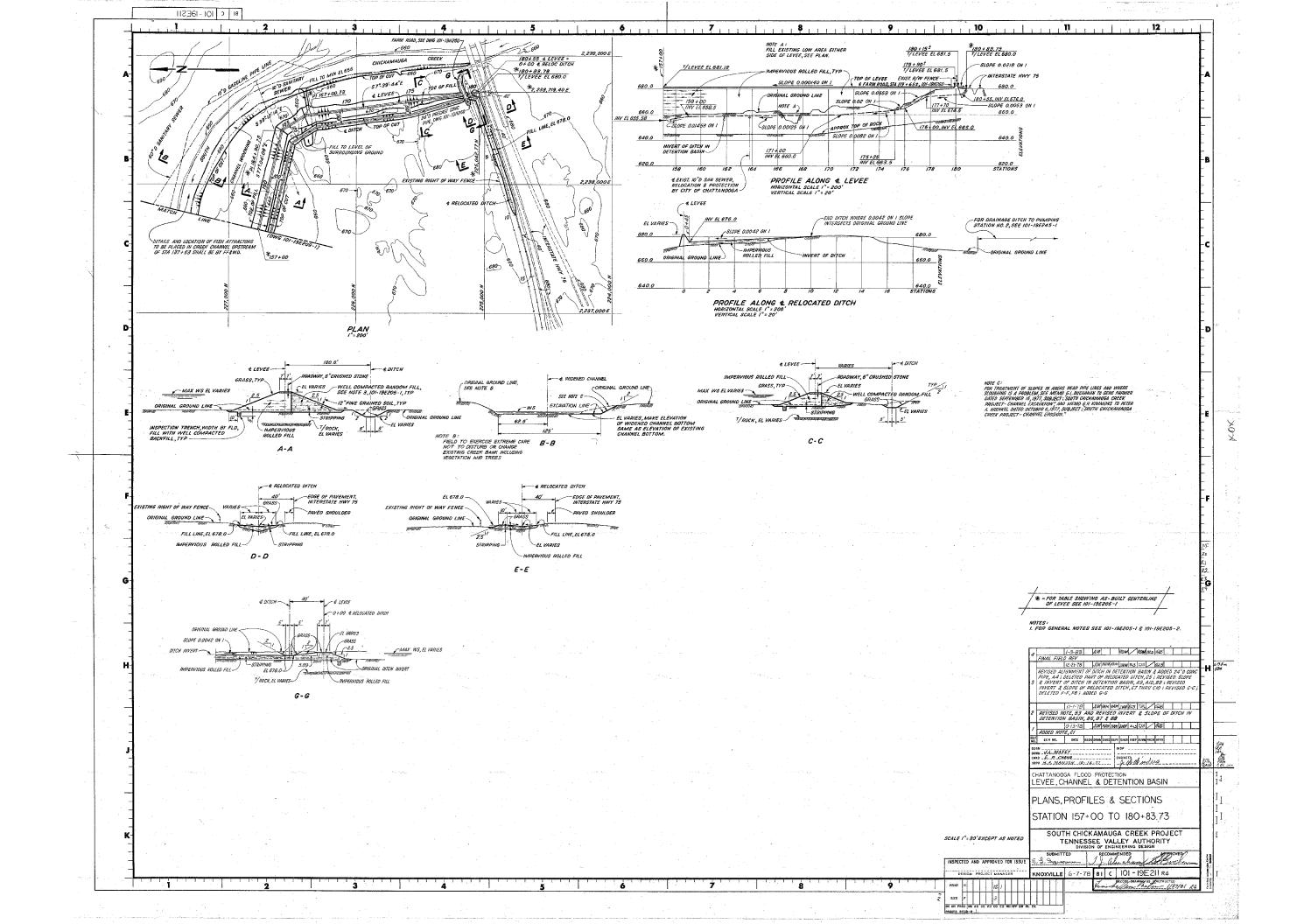
FOR DWG. NO. <u>101-19E209-3 RO</u> SHEET NO <u>1</u> OF <u>1</u> PROJECT <u>SOUTH CHICKAMAUGA CREEK</u> BUILDWG <u>MANHOLES & HEADWALLS</u>

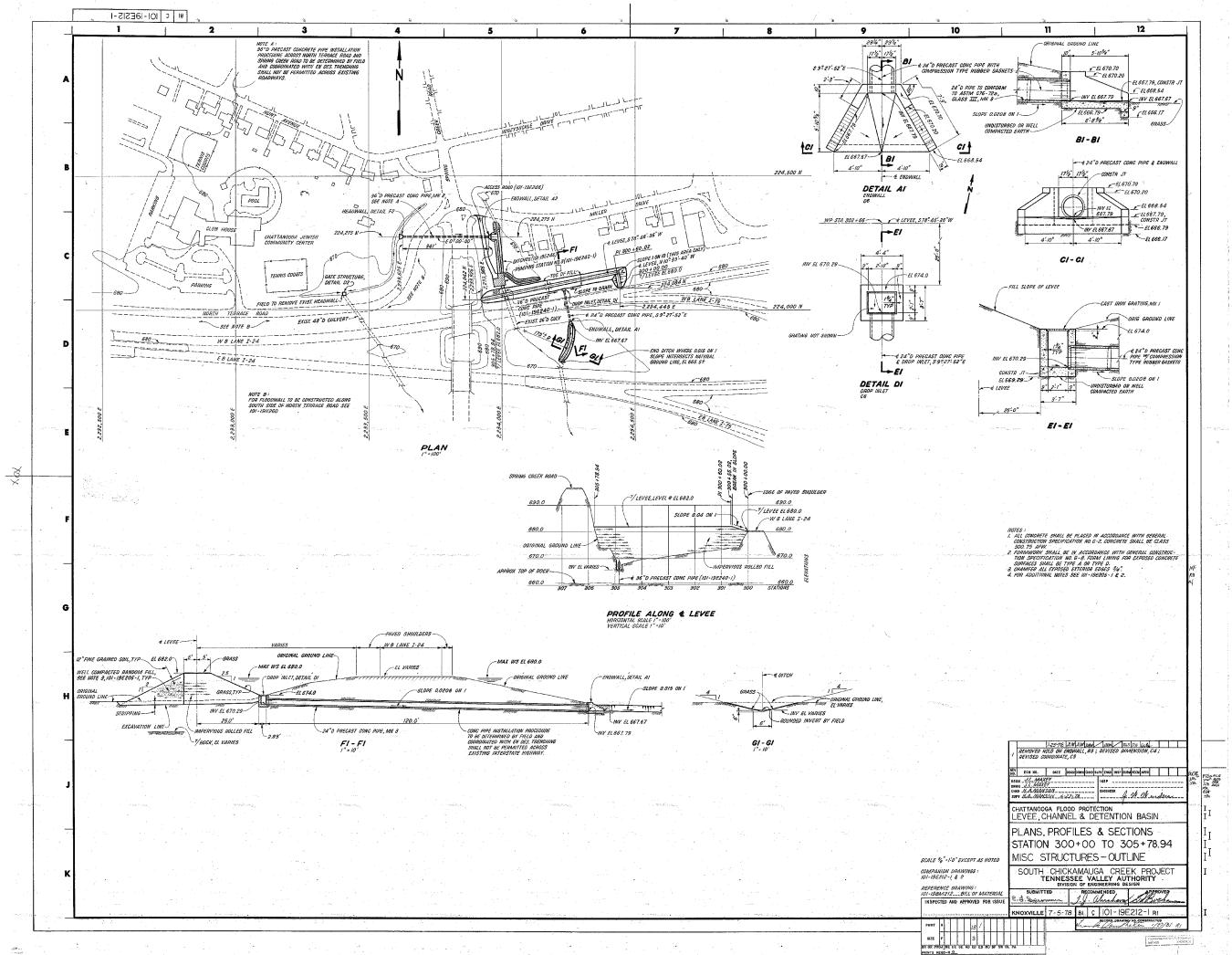
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			4	18-9	2		4	5-3	5
			4	18-6	2		4	5	4
6	55-6	42	4	18-3	6		4	4-9	7
6	27	4	4	18	8		4	4-6	96
6	25-6	8	4	17-9	2		4	4	6
6	25-3	4	4	17-3	2	¥	4	3-9	4
6	13-3	128	4	14-6	6		4	3-3	5
6	11-6	60	. 4	14-3	2		4	3	1
6	8-6	2	4	14	4		4	2-9	7
6	8	2	4	13-6	4		4	2-6	4
6	7-6	2	4	13-3	4		4	2-3	2
6	7-3	79	4	13	6		4	1-9	2
6	7	7	4	9-6	10		4	1-6	13
6	6	32	4	9	10		4	1-3	1
6	3-3	2	4	7-6	10		4	1	8
6	2-6	2	4	7-3	8				
6	2-3	/	4	7	3				
			4	6-9	34				
			4	6-6	3				
4	31-6	26	4	6-3	3				
4	22-6	28	4	6	7				
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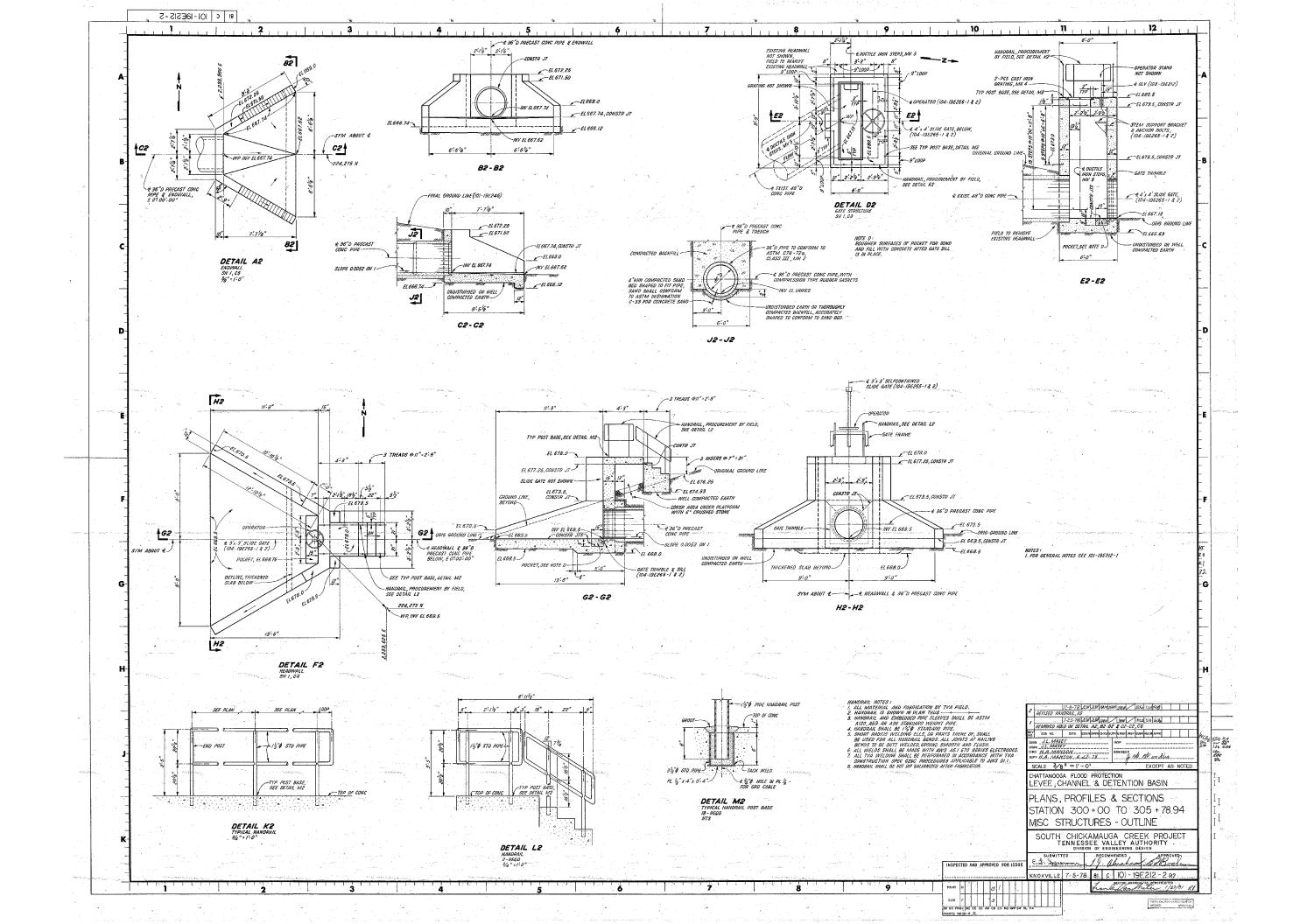
TVA 10590 (DED-6-75)

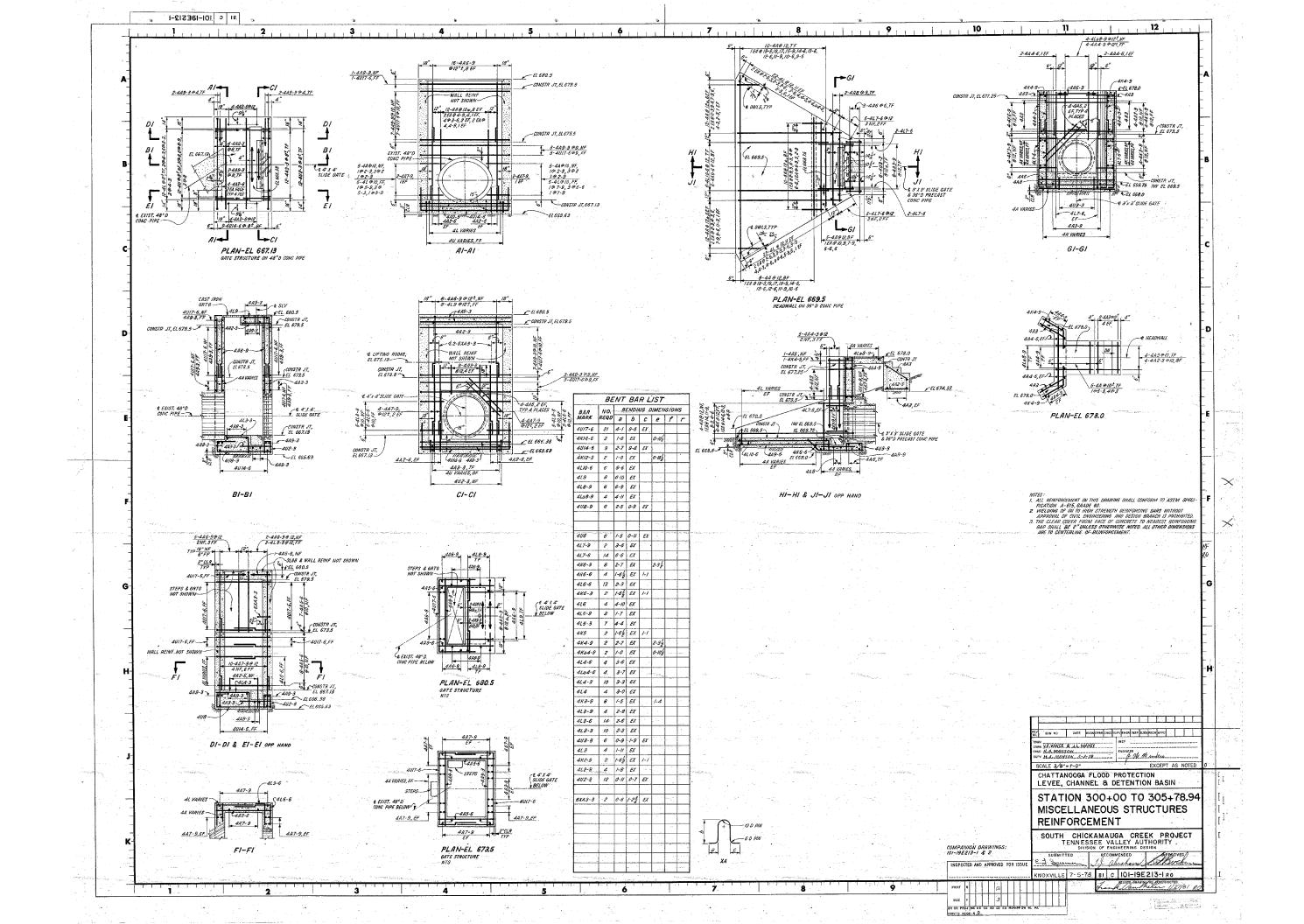
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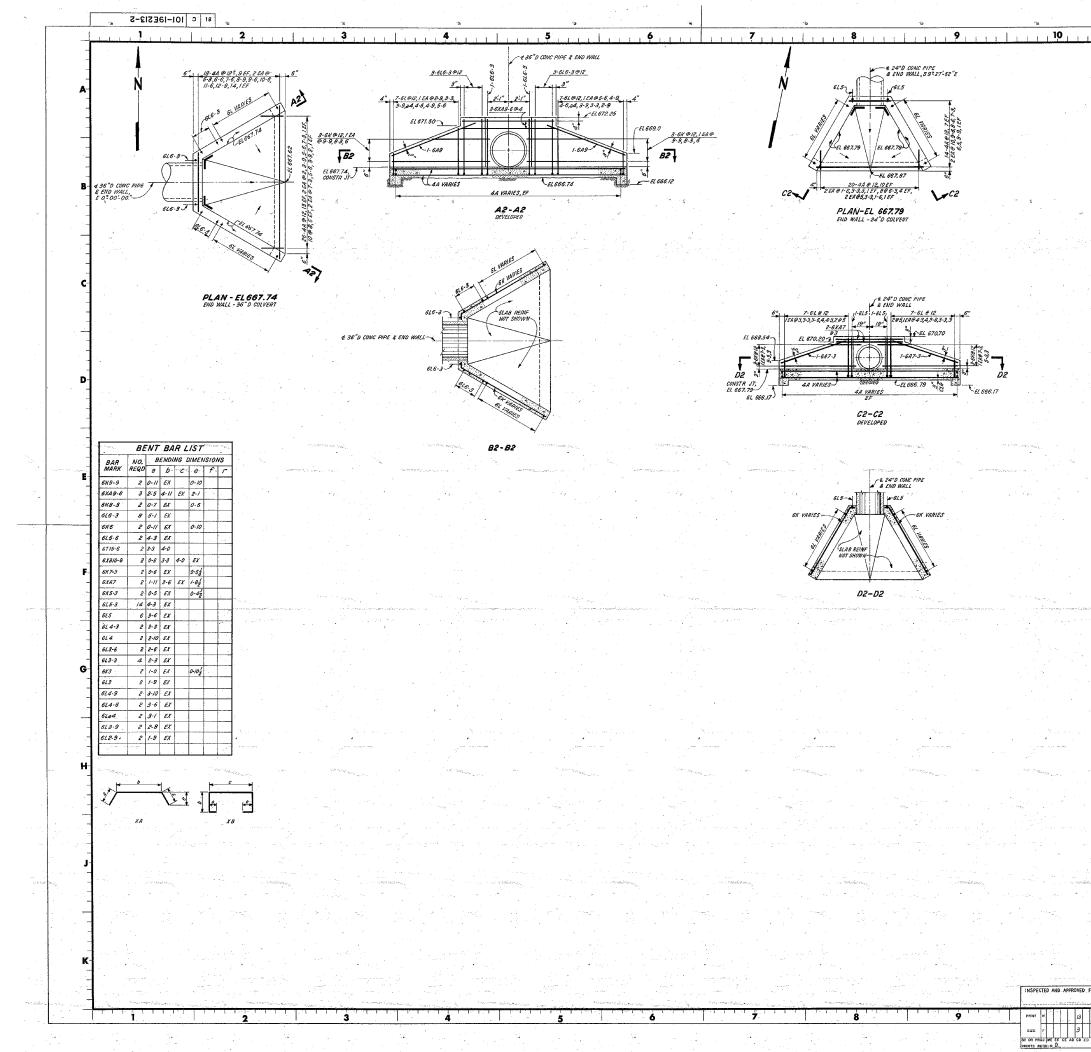


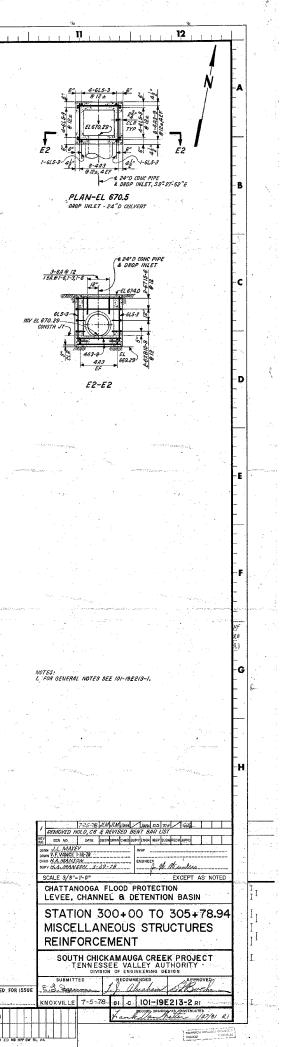












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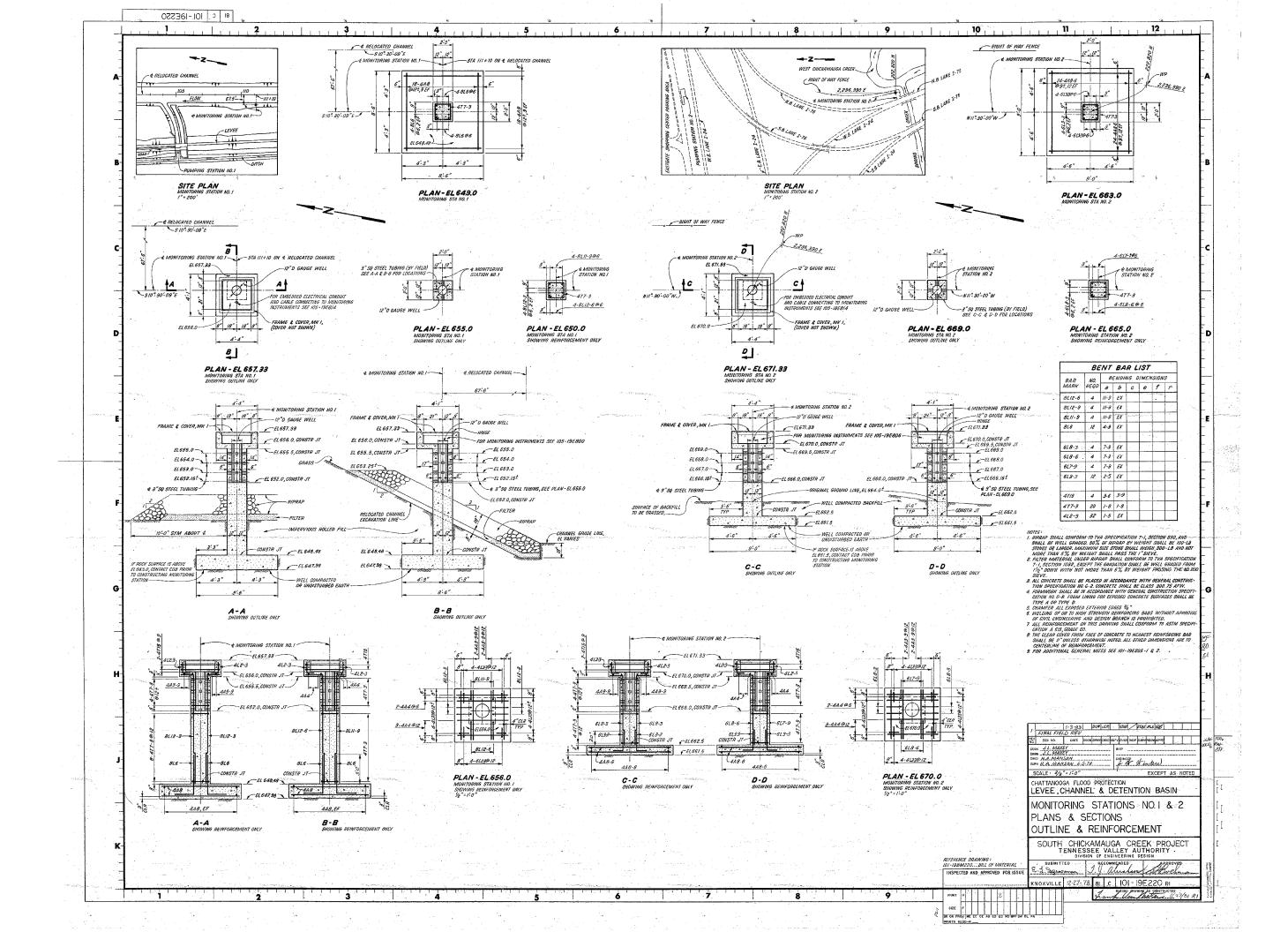
(FOR FIELD INFORMATION ONLY)

MADE J.L. MAXEY CHKD: HAM 4-26-78 RO 11 JWW 7-20-78 RI DATE <u>4-14-78</u>

FOR DWG. NO. 101-19E213-2 (RI) SHEET NO \_\_\_\_\_ OF \_\_\_\_ PROJECT SOUTH CHICKAMAUGA CREEK BUILDING MISCELLANEOUS STRUCTURES

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TVA 10590 (DED-6-75)



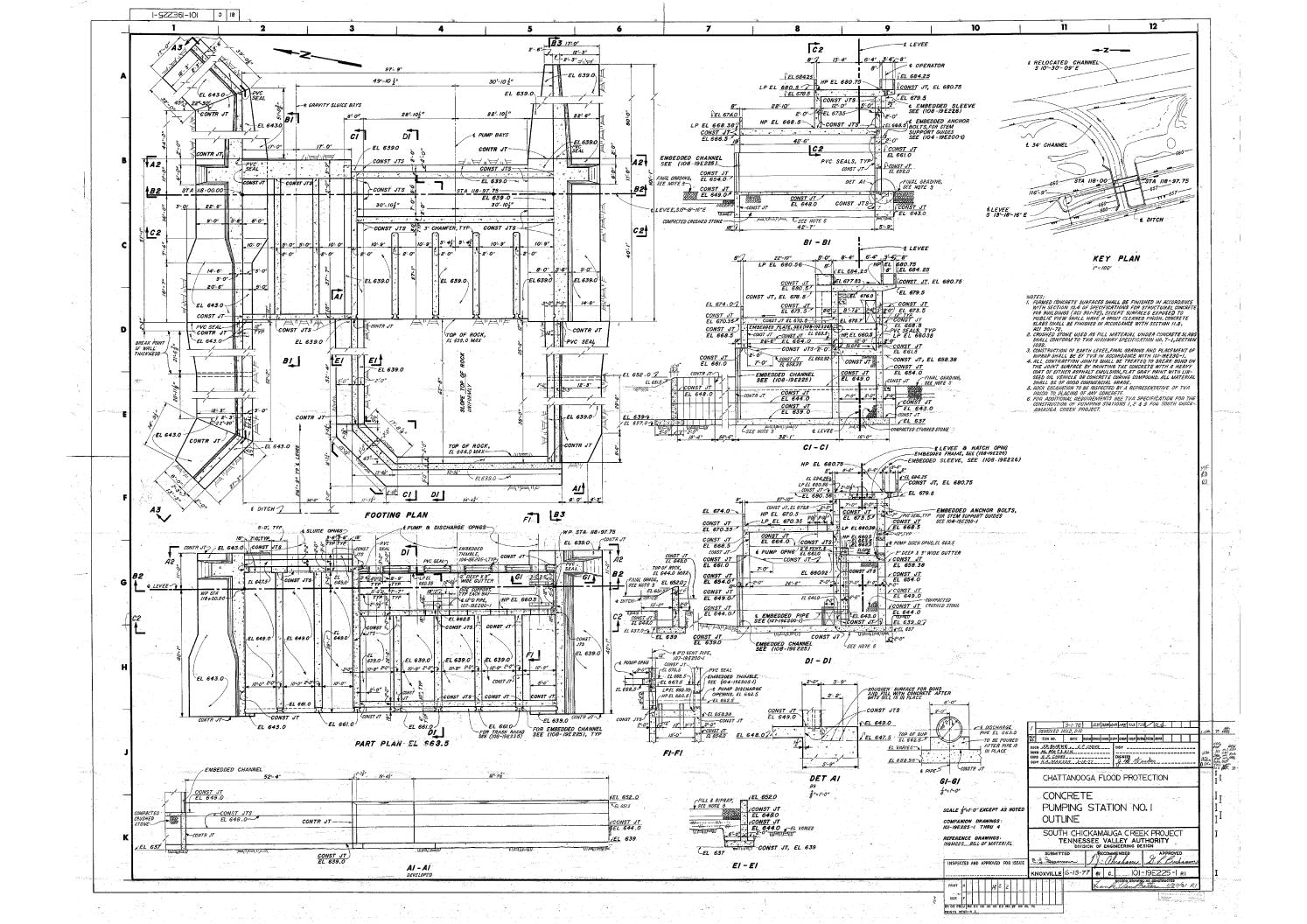
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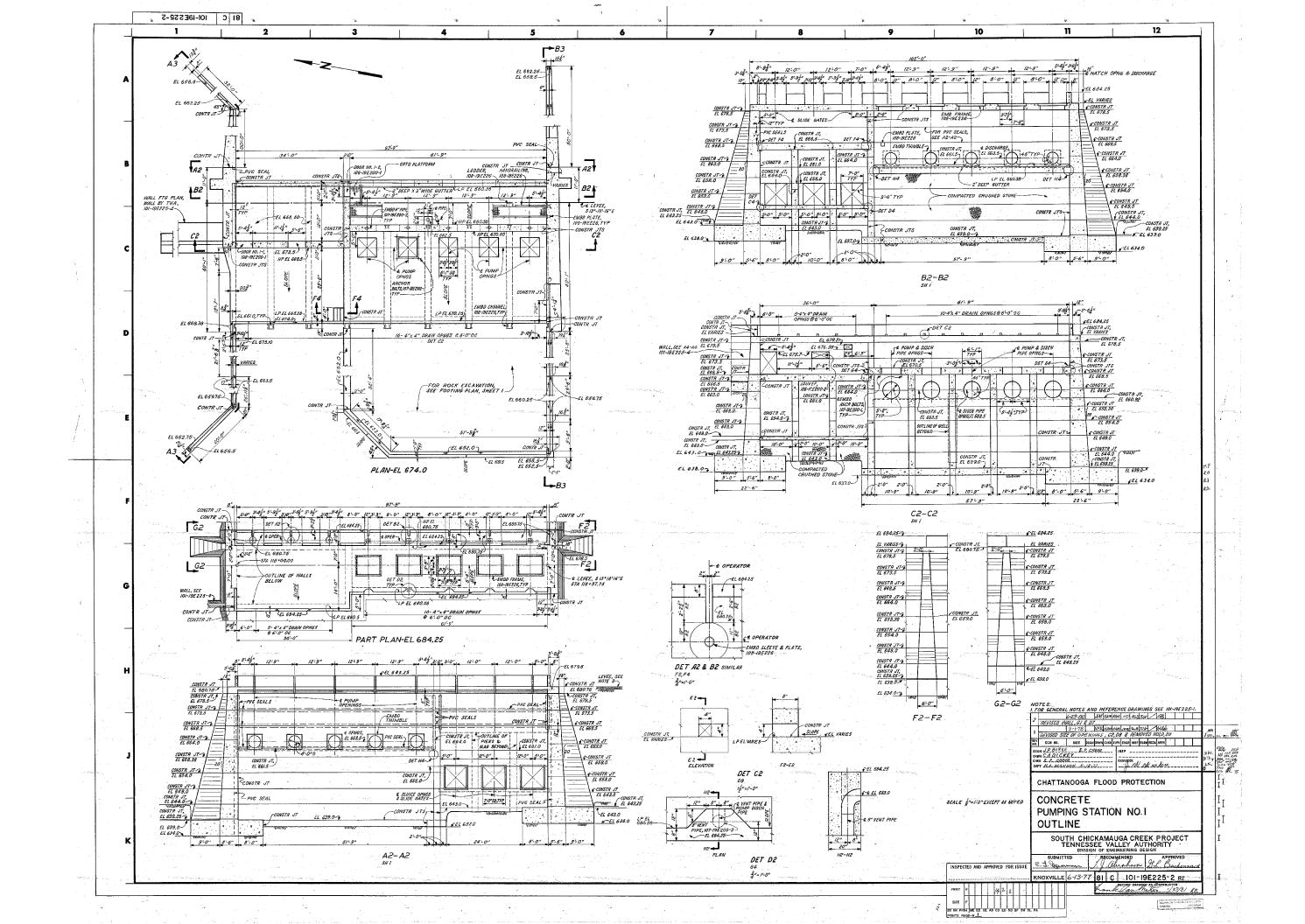
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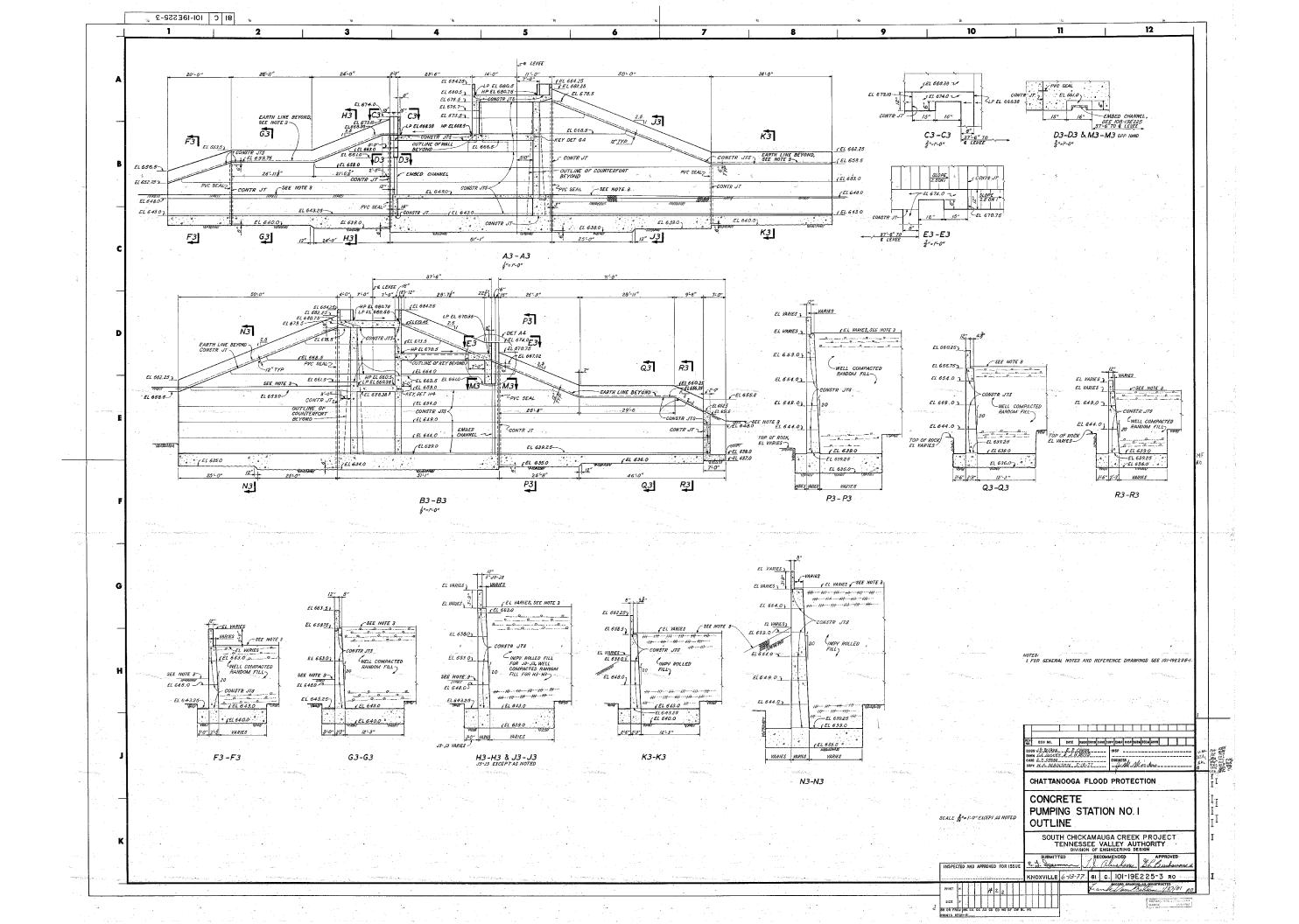
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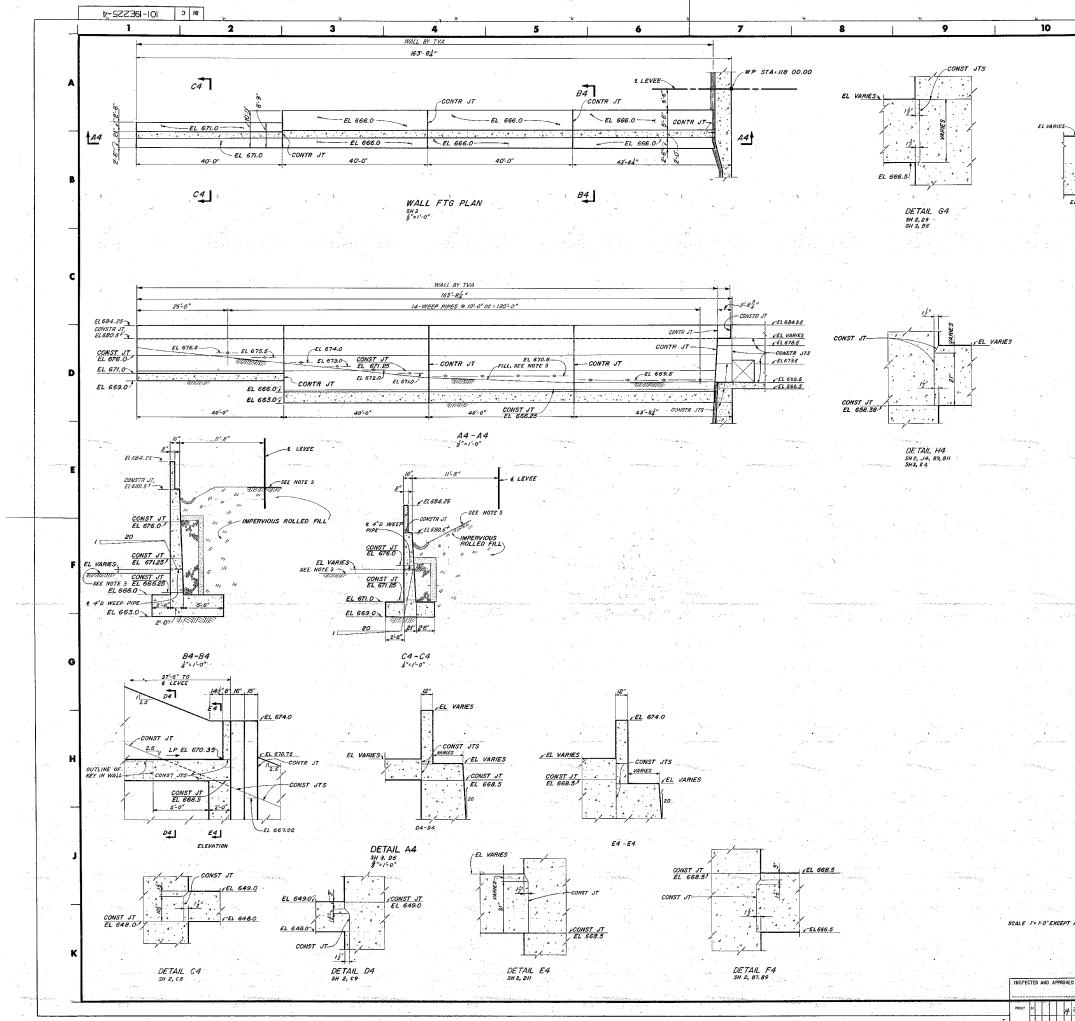
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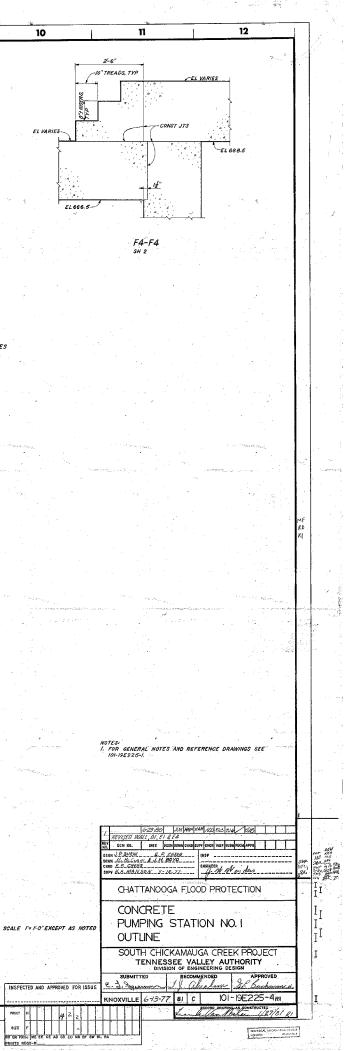
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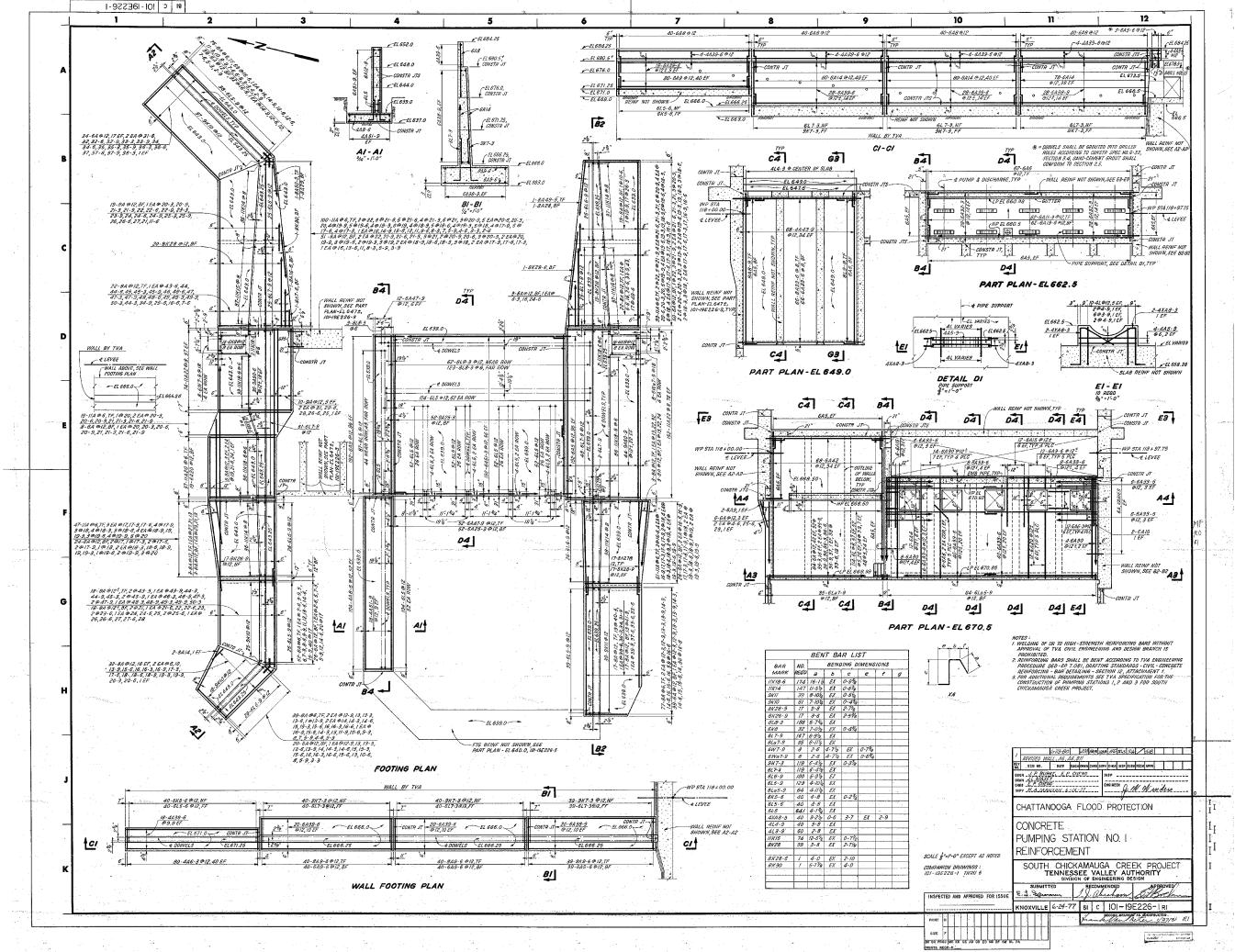


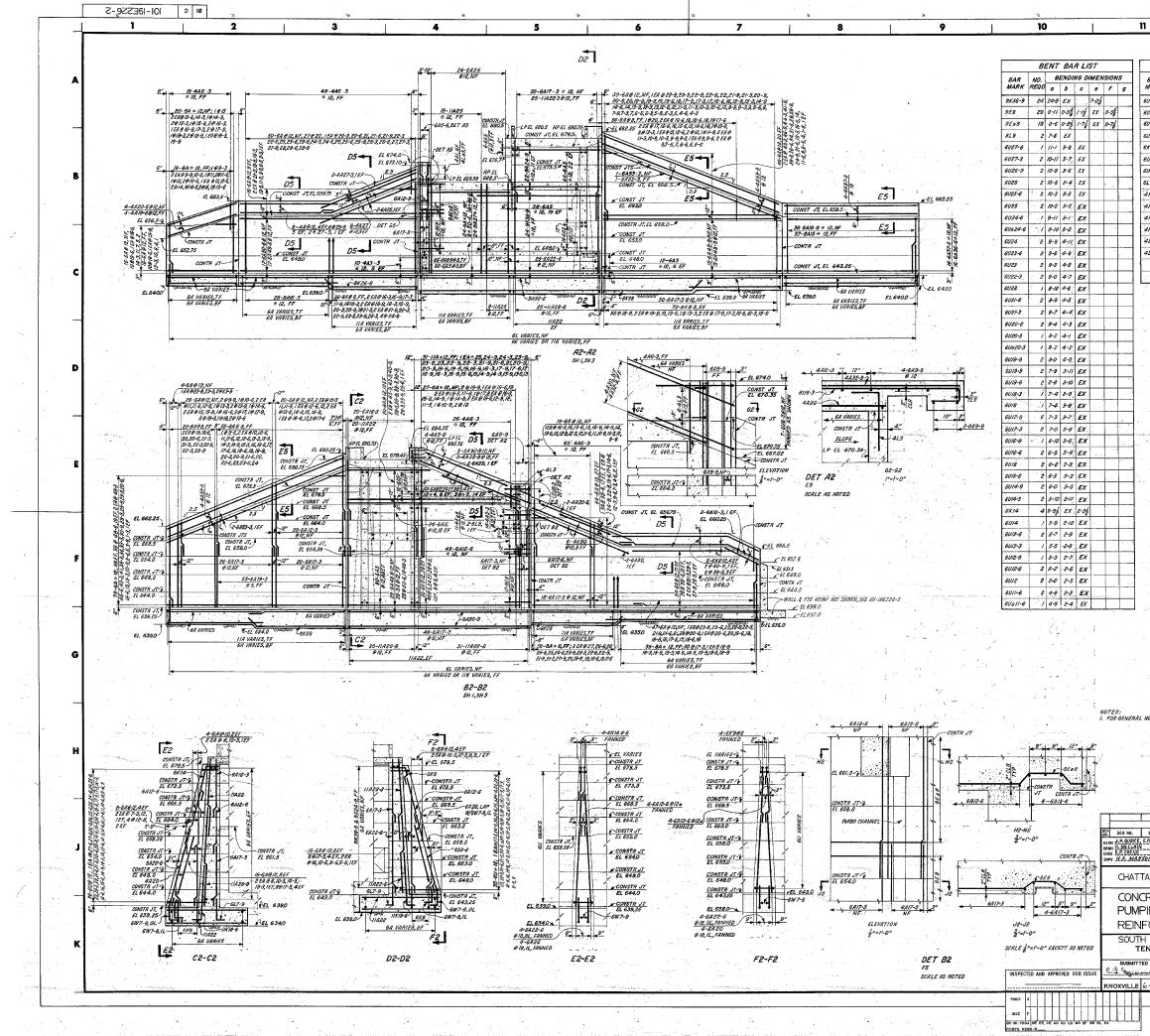




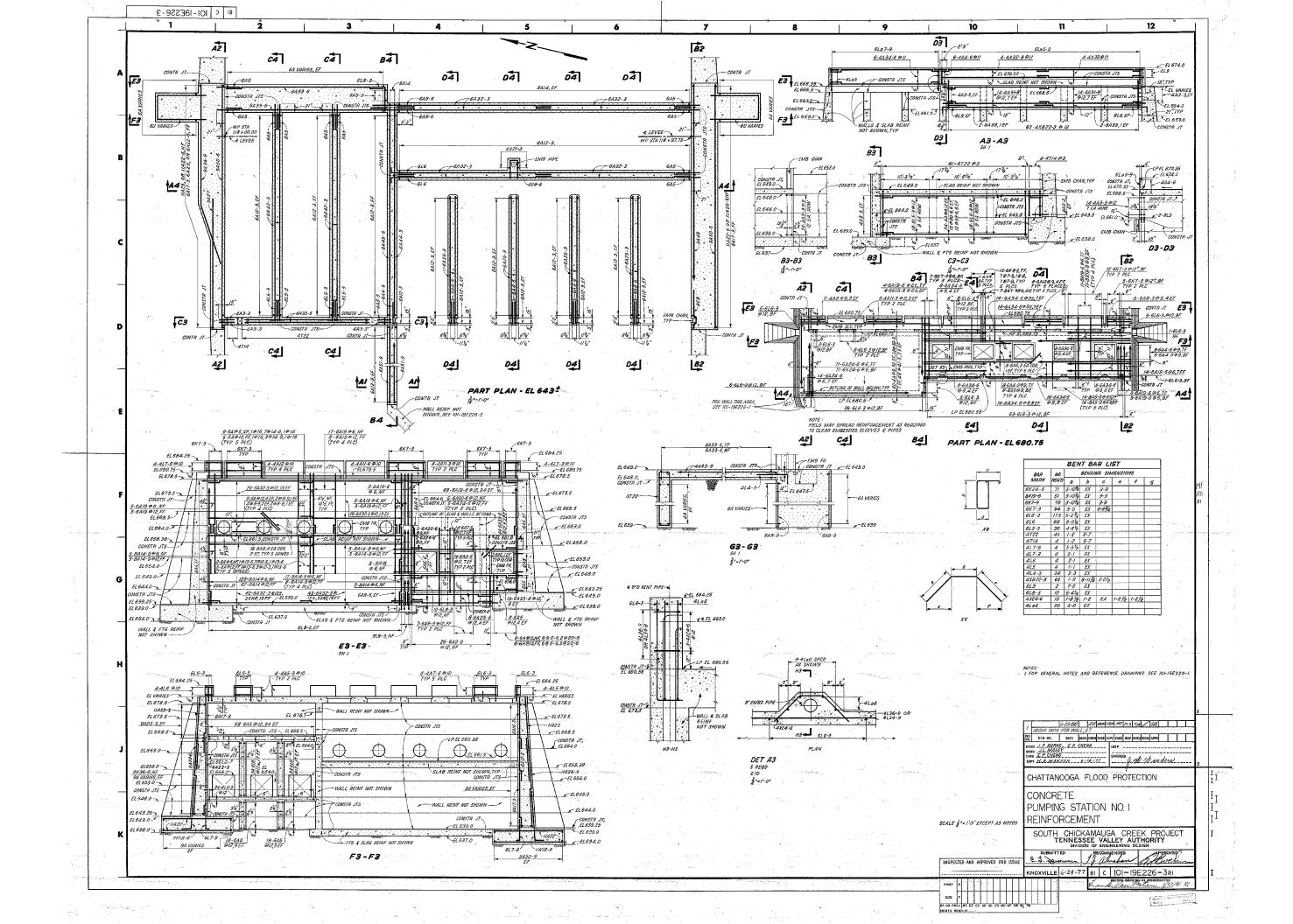


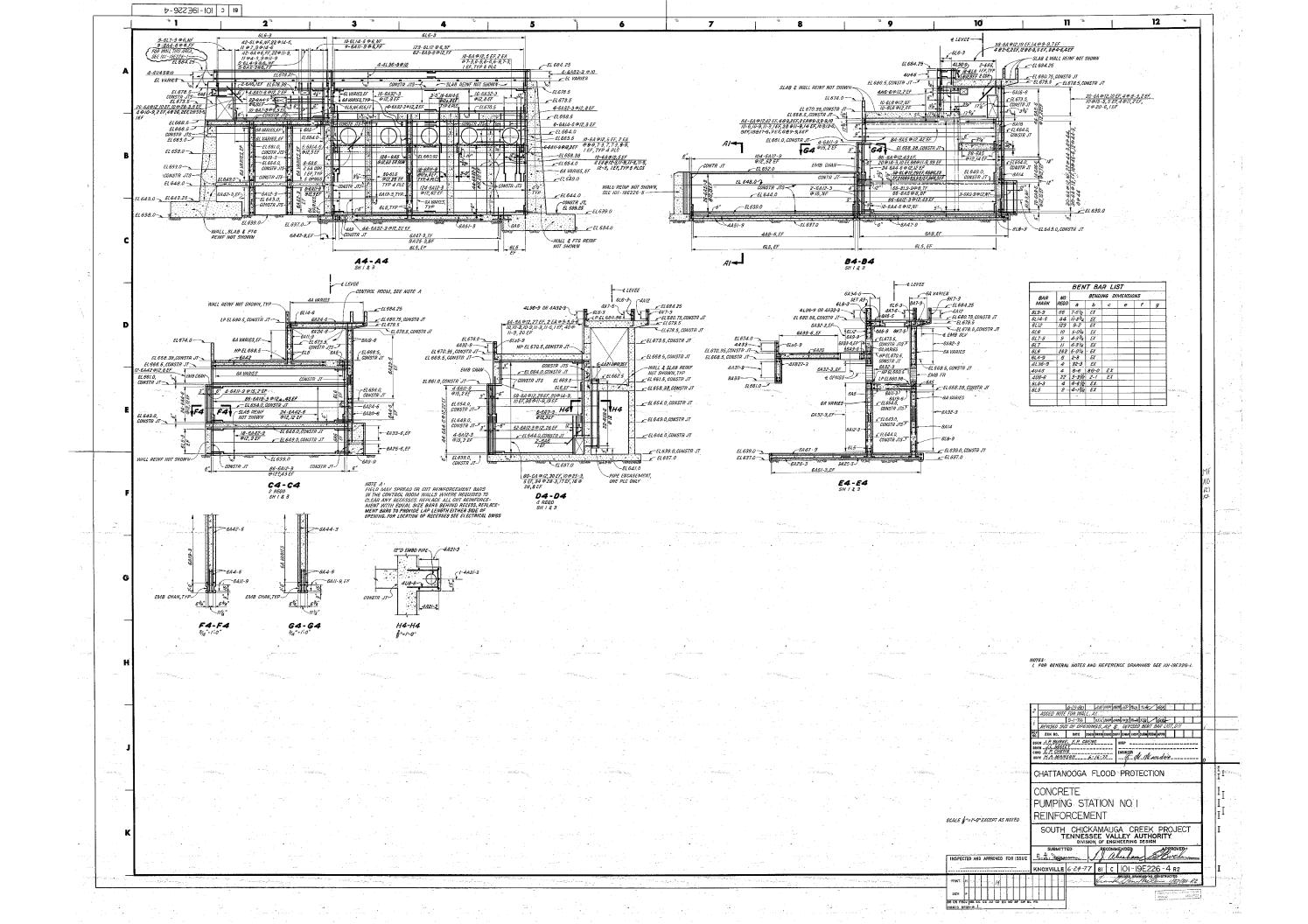


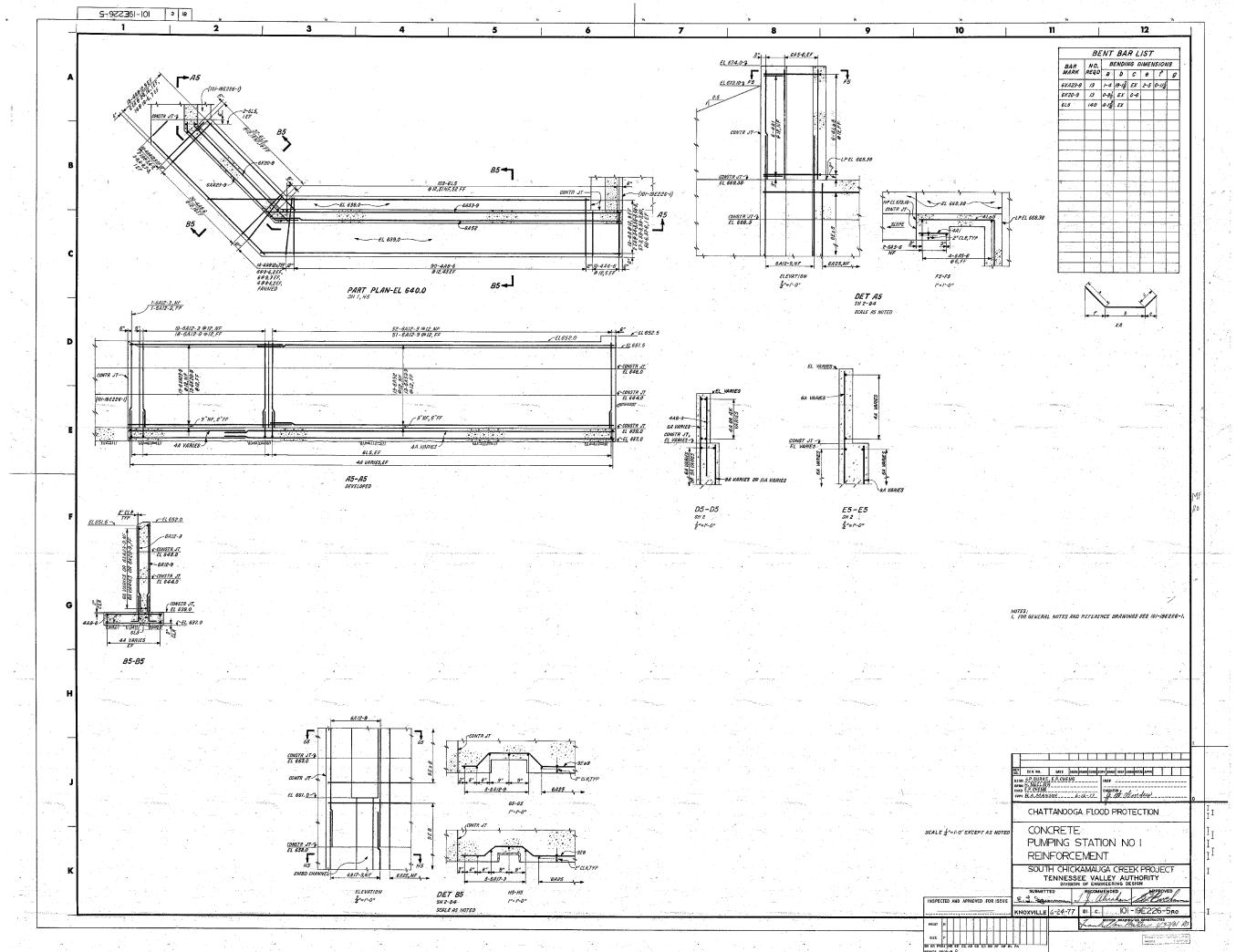


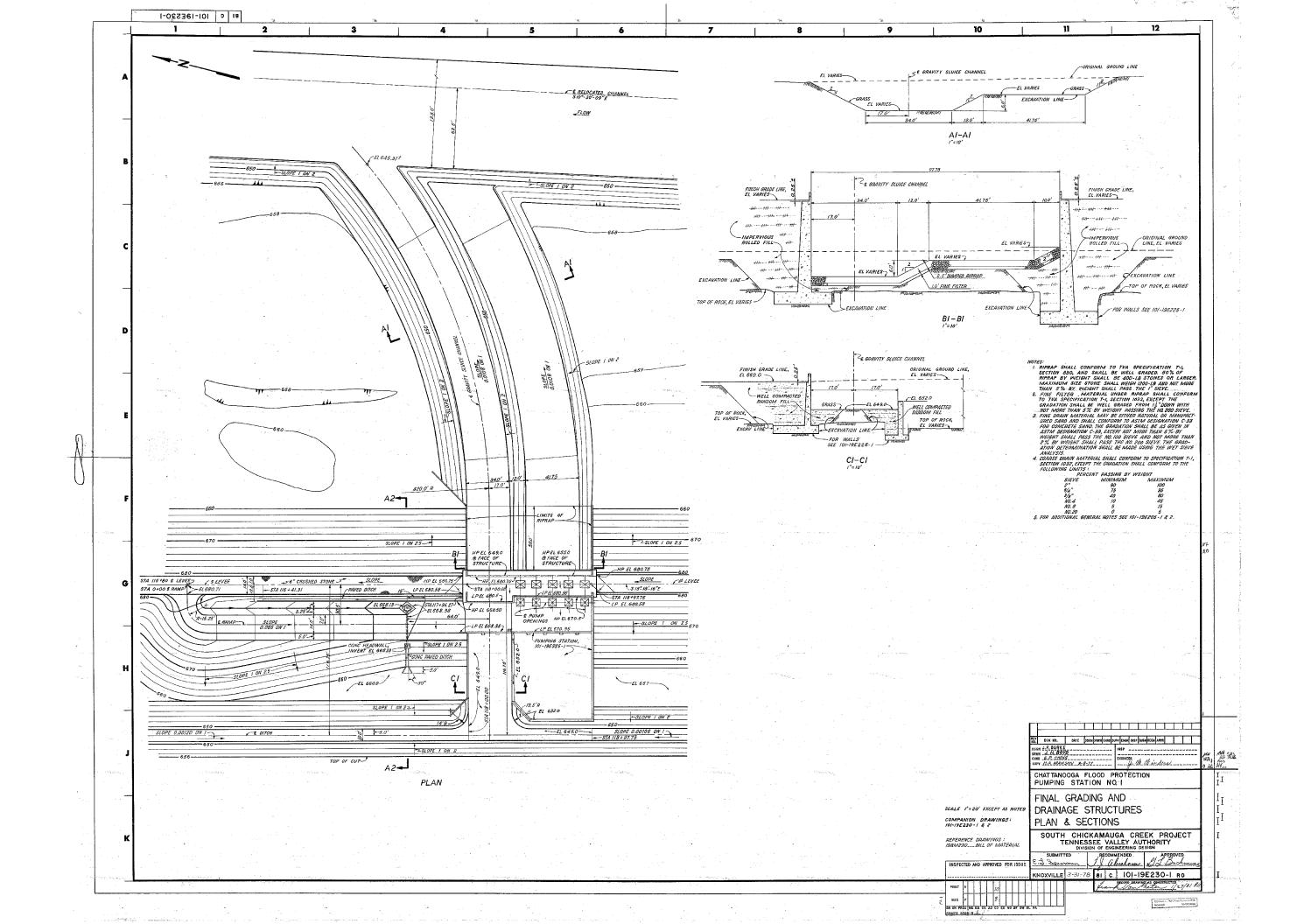


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(FOR FIELD INFORMATION ONLY)

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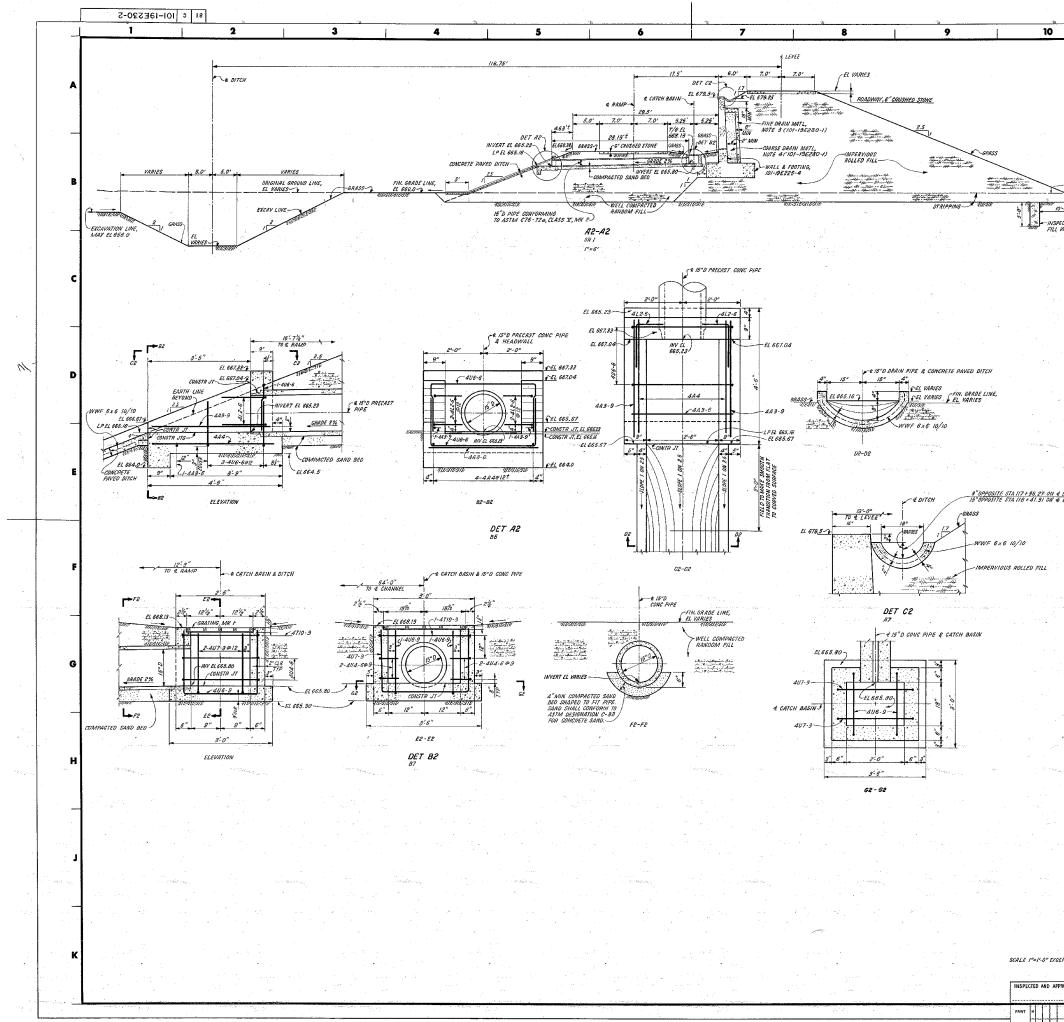
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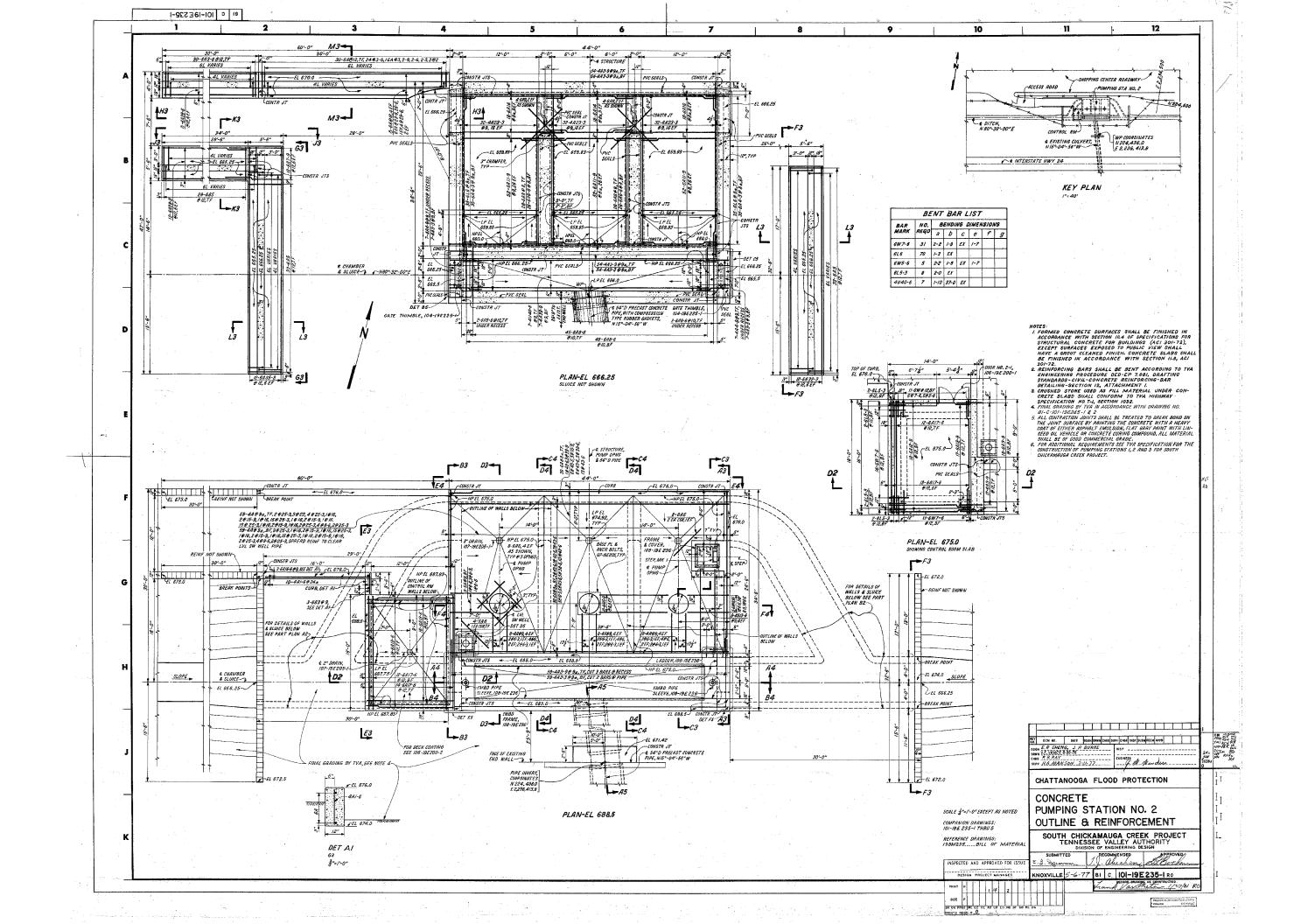
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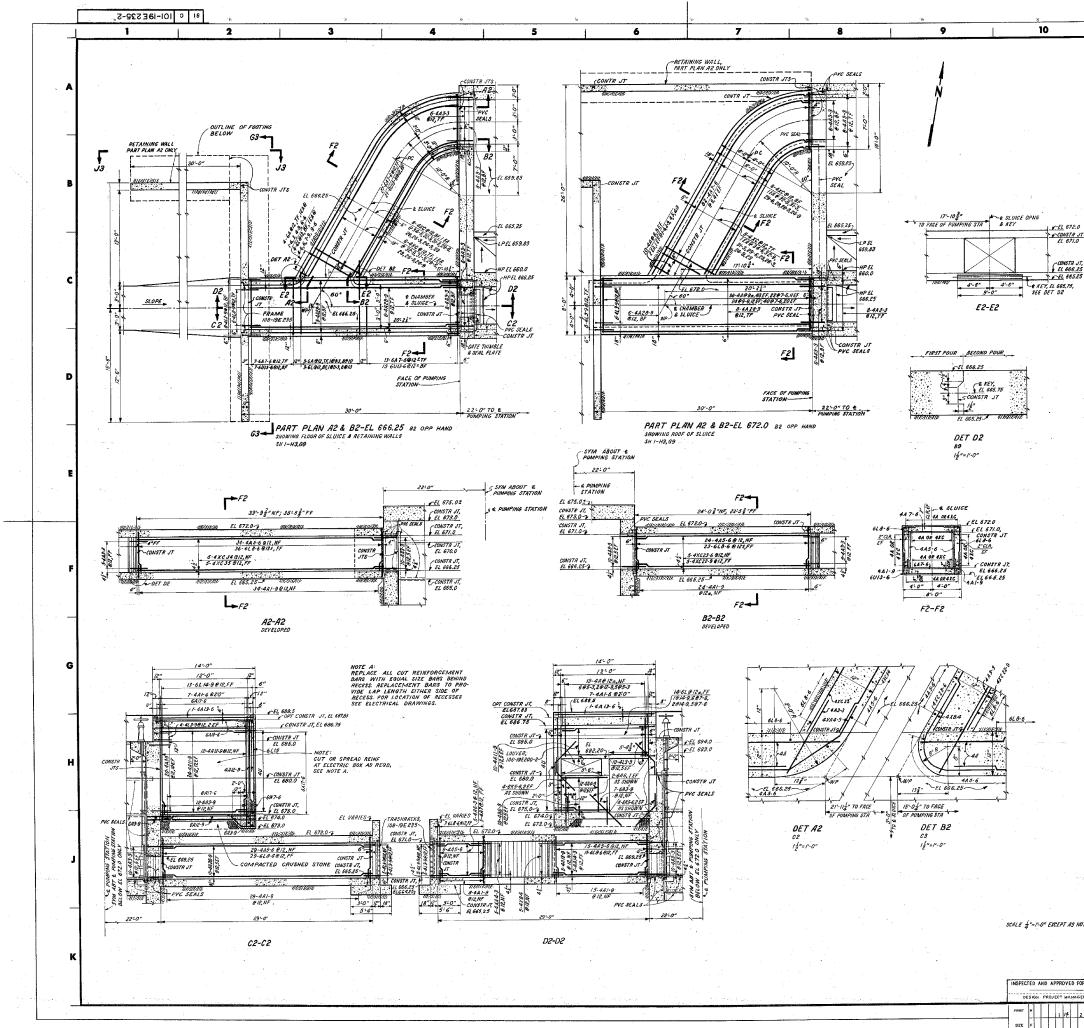
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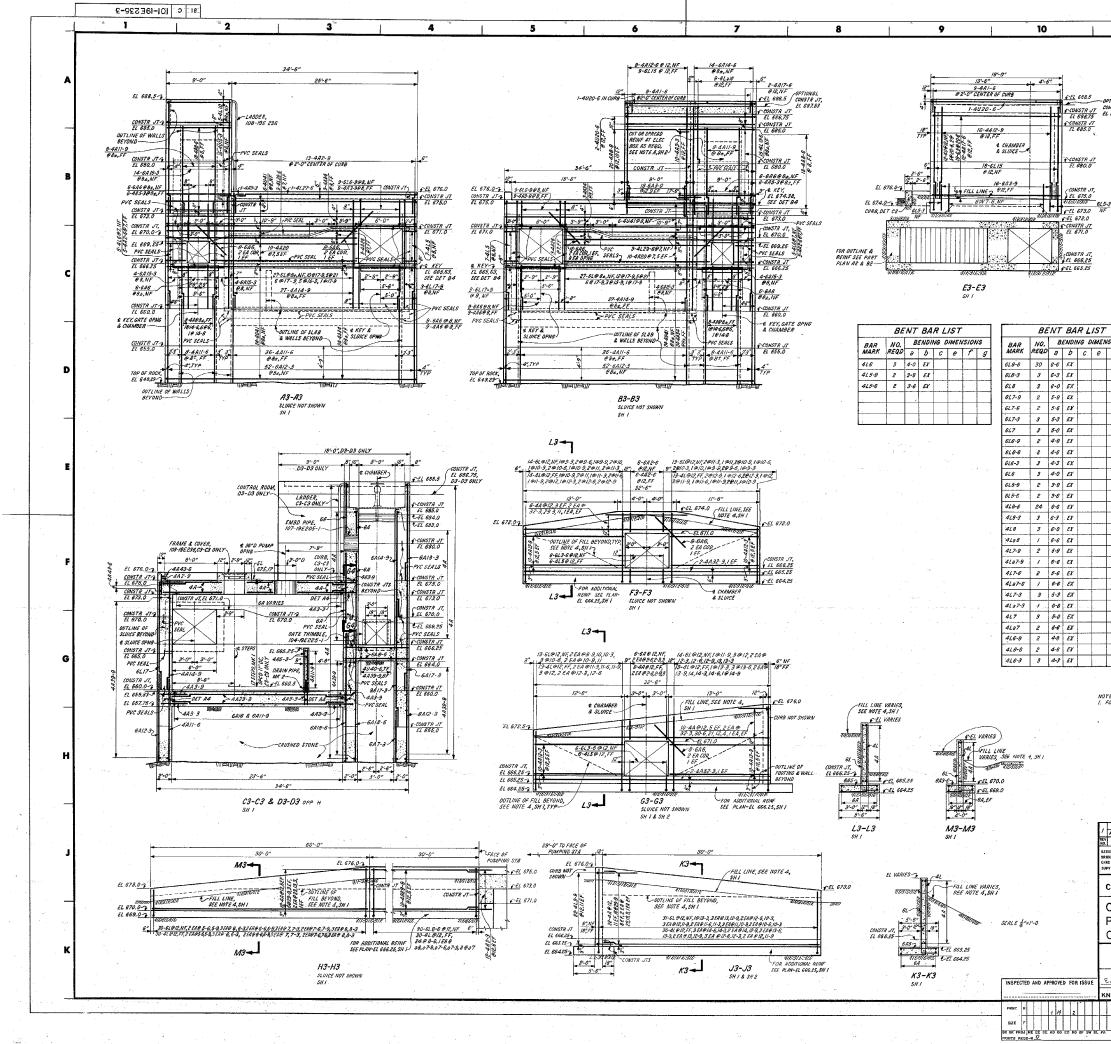
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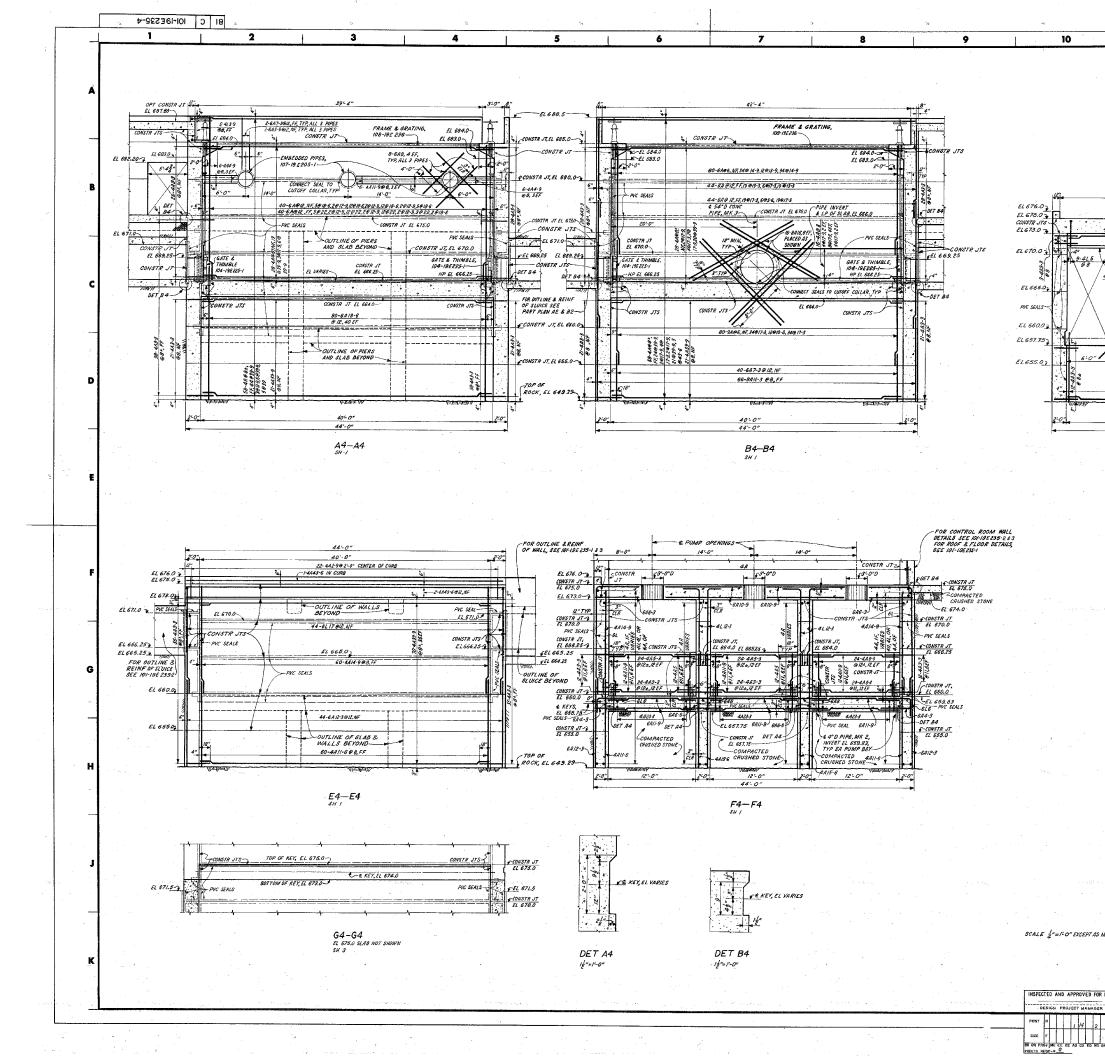
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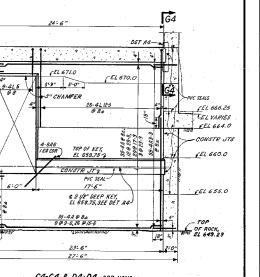


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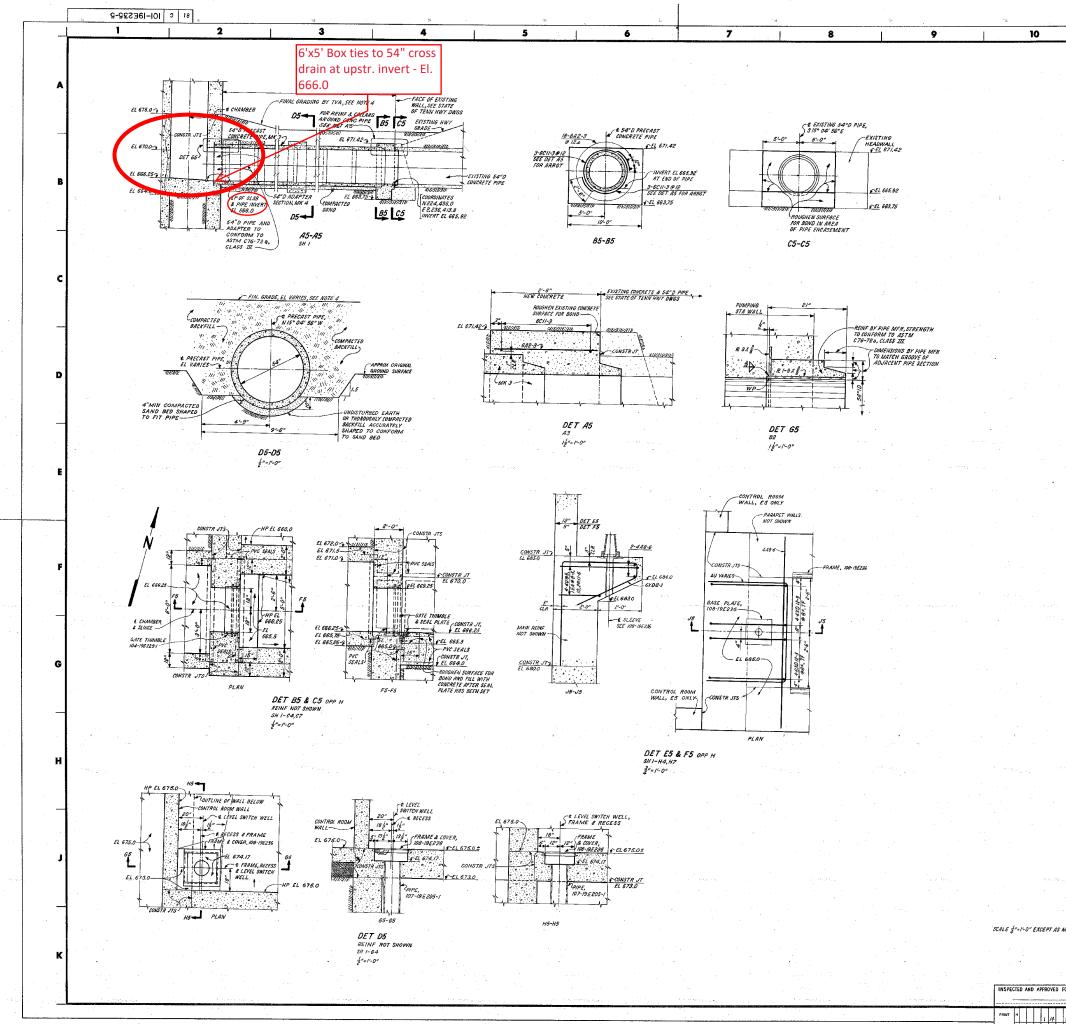
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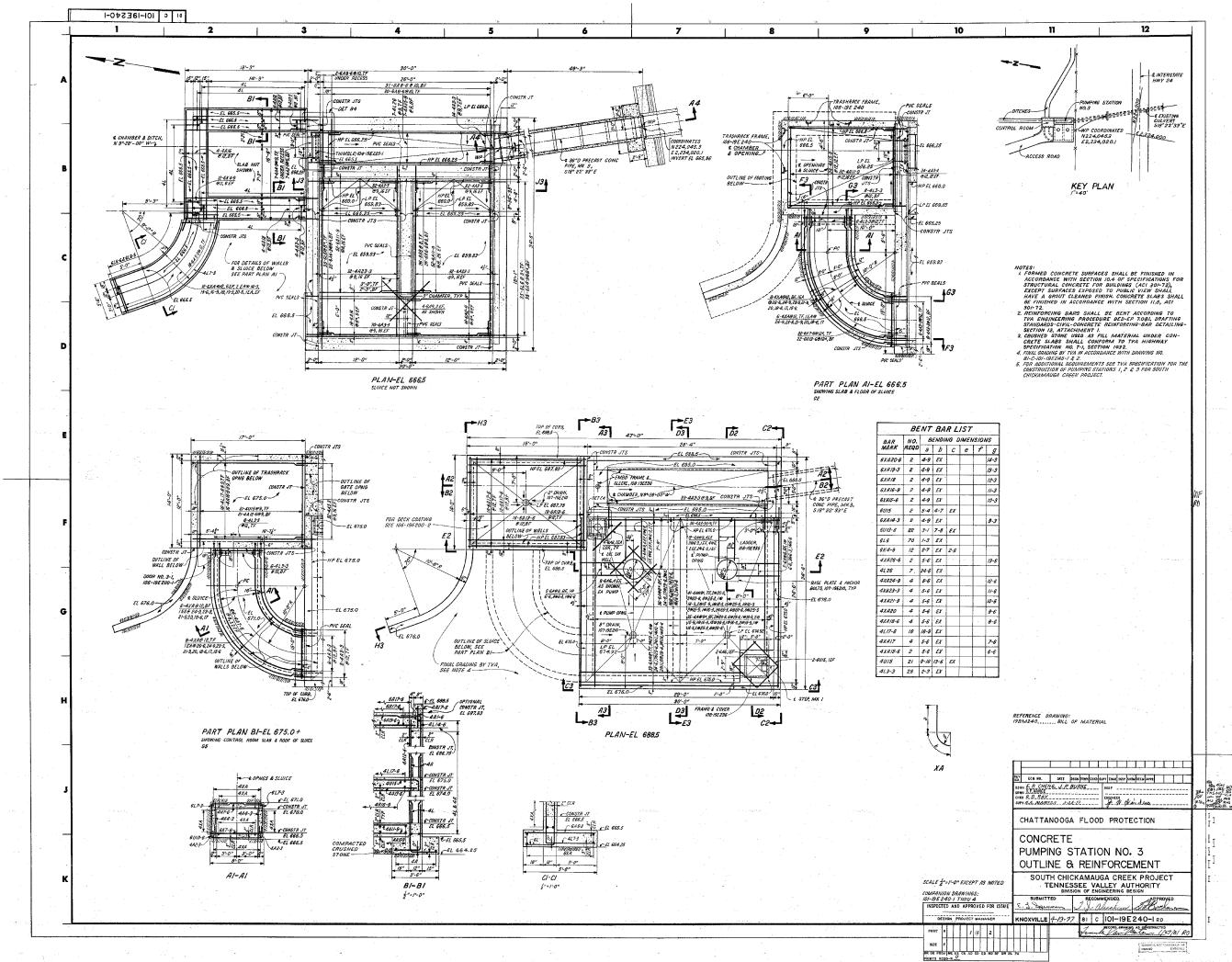
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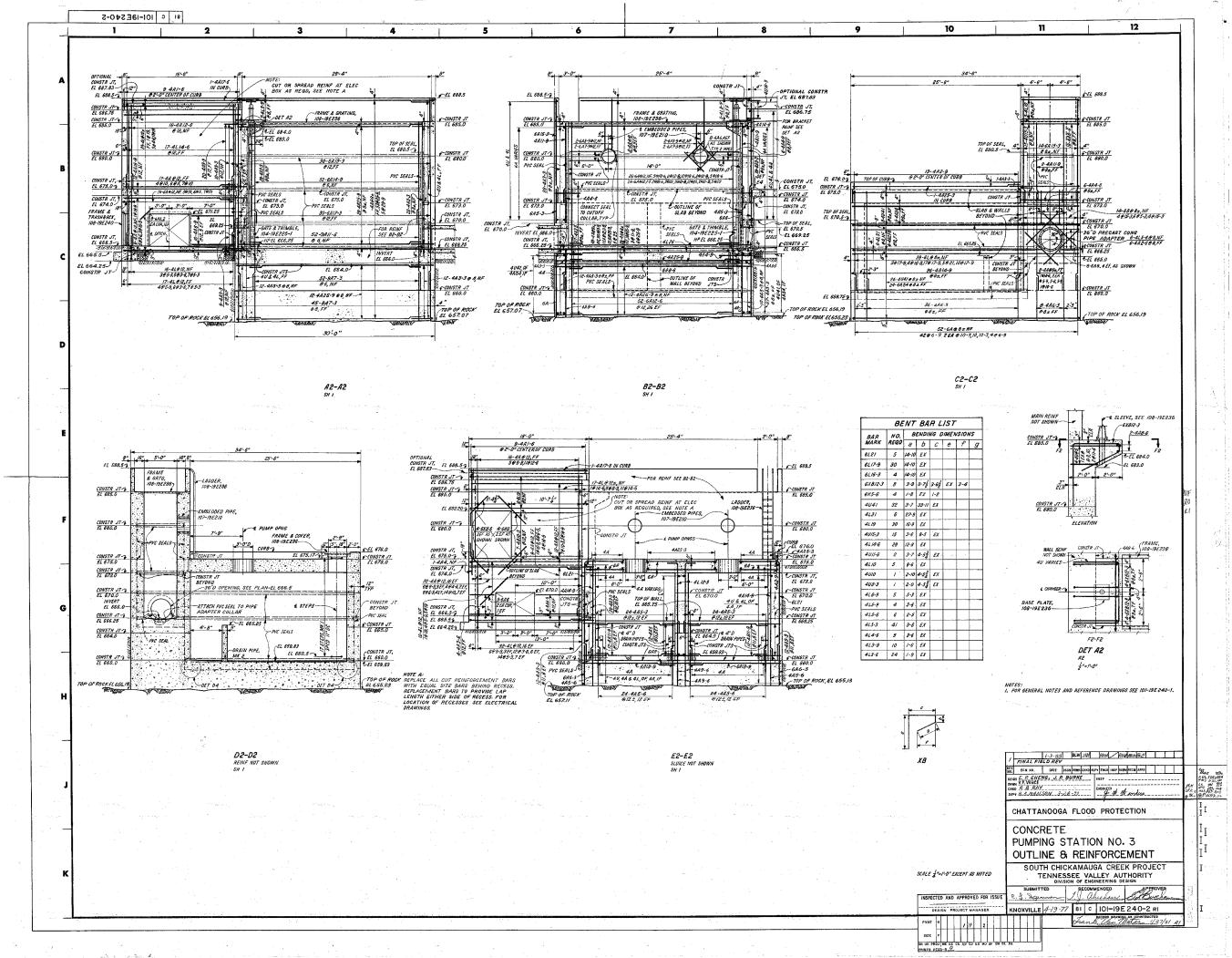
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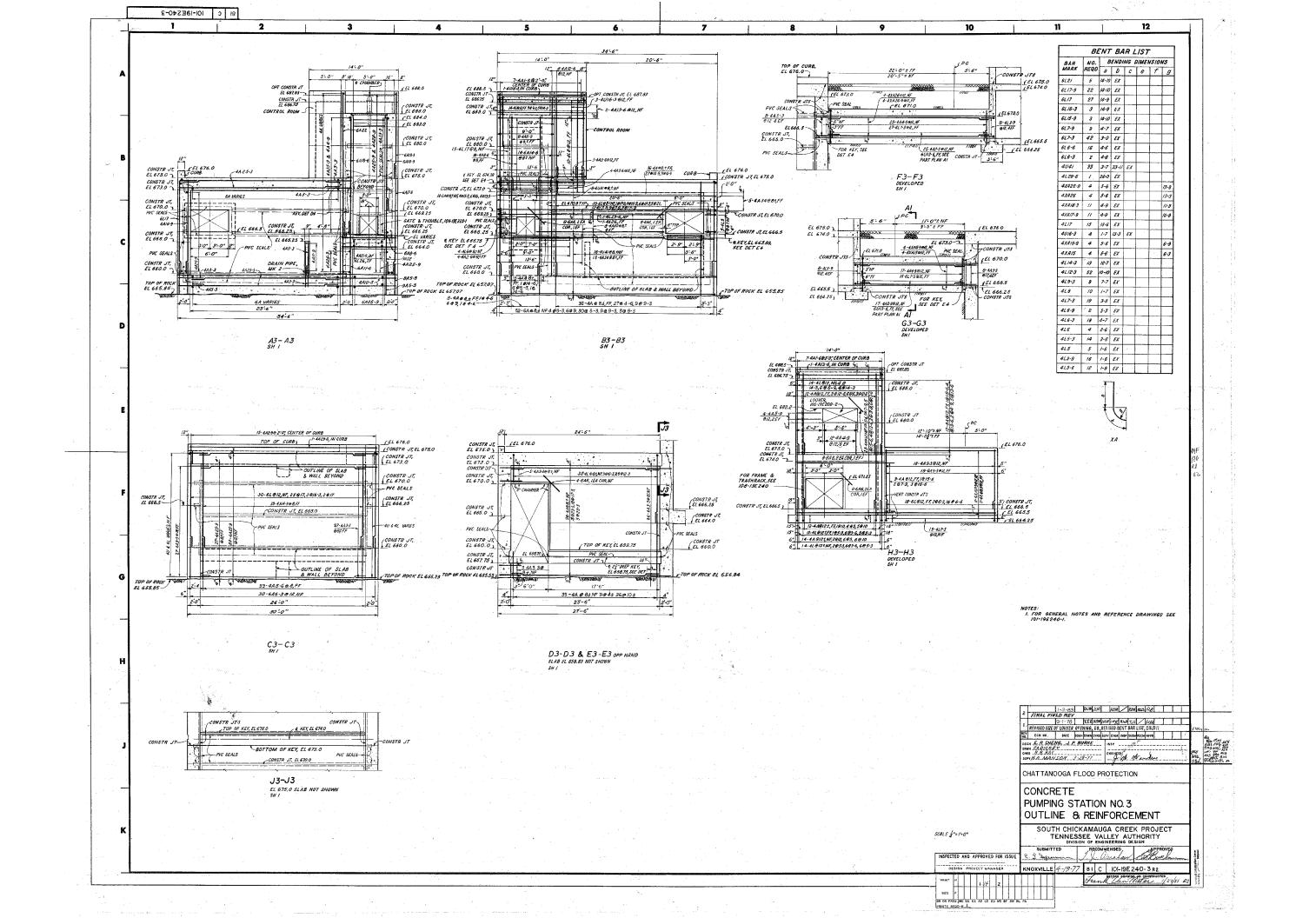
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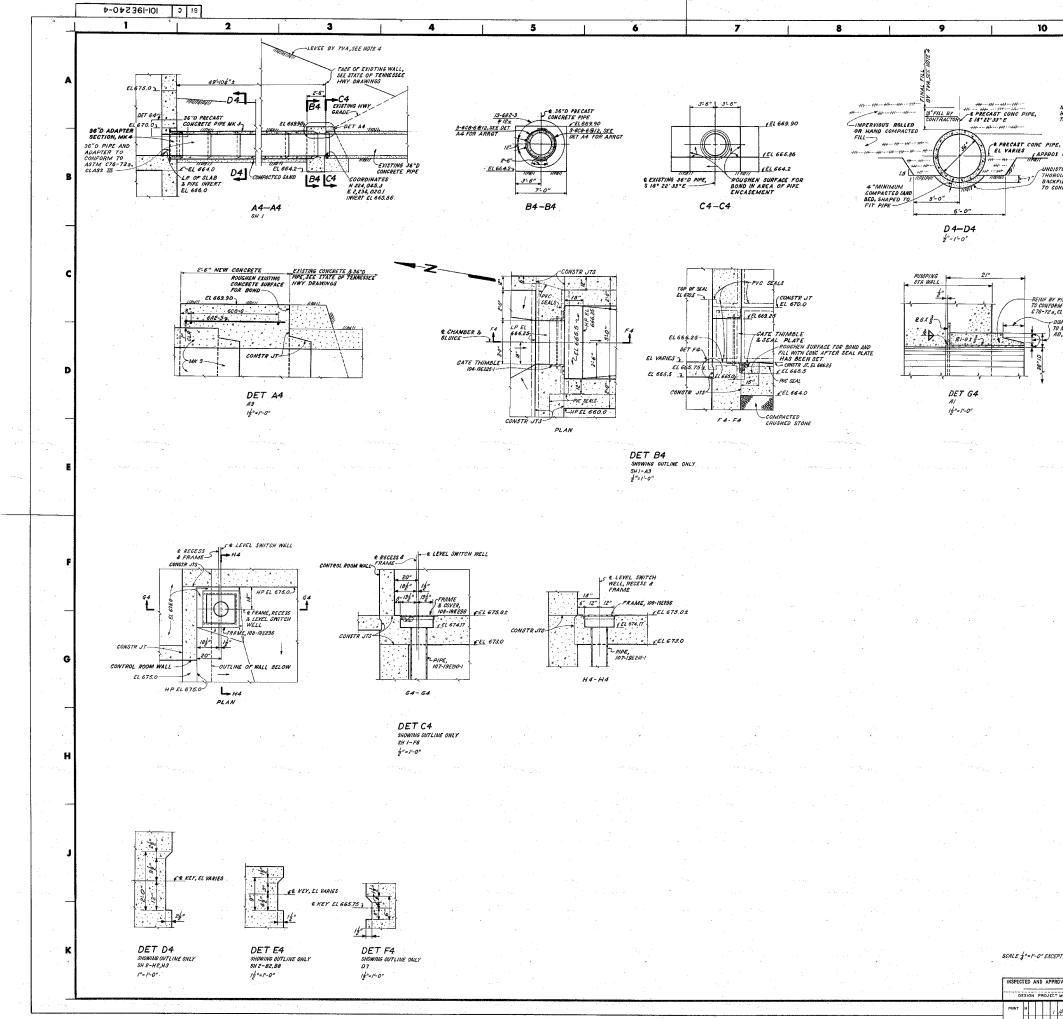
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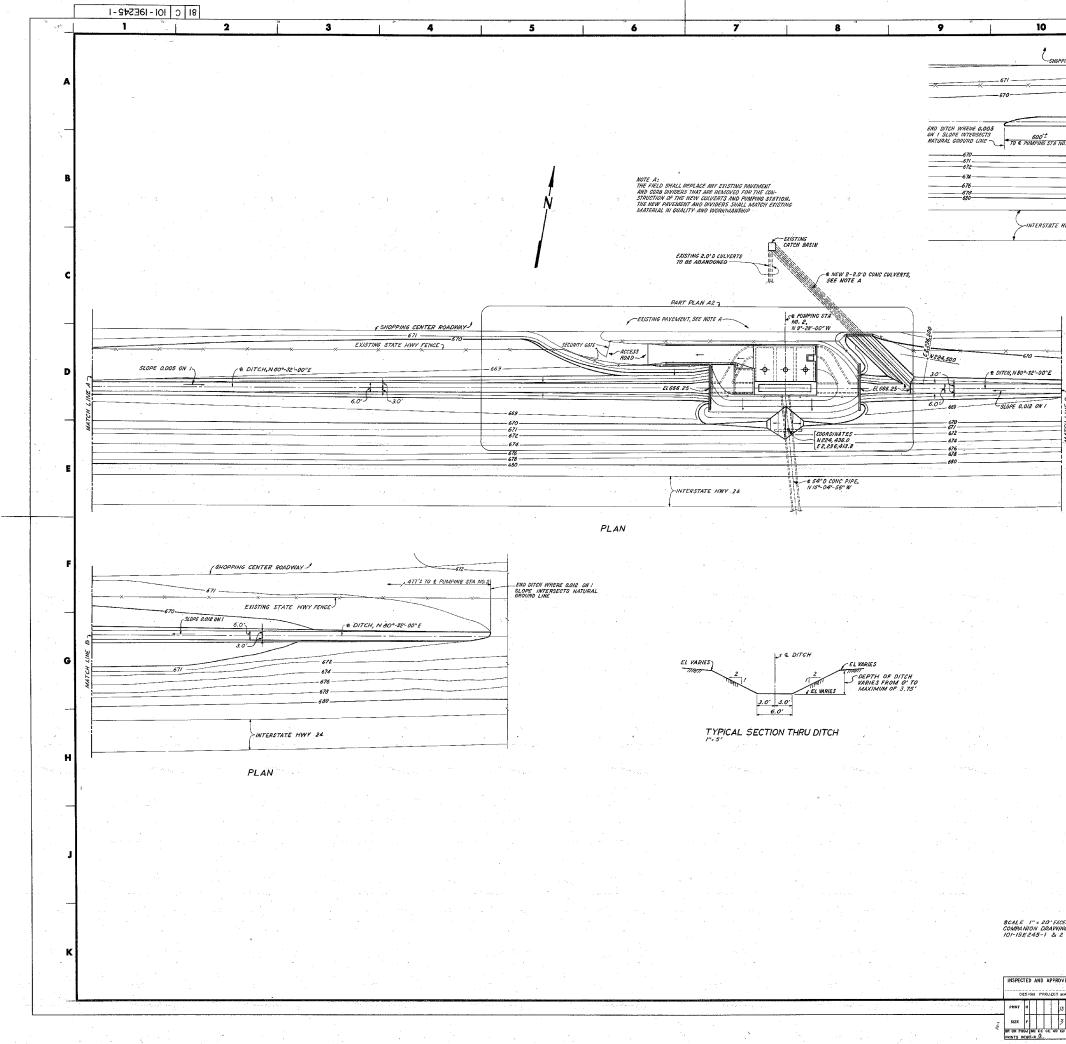
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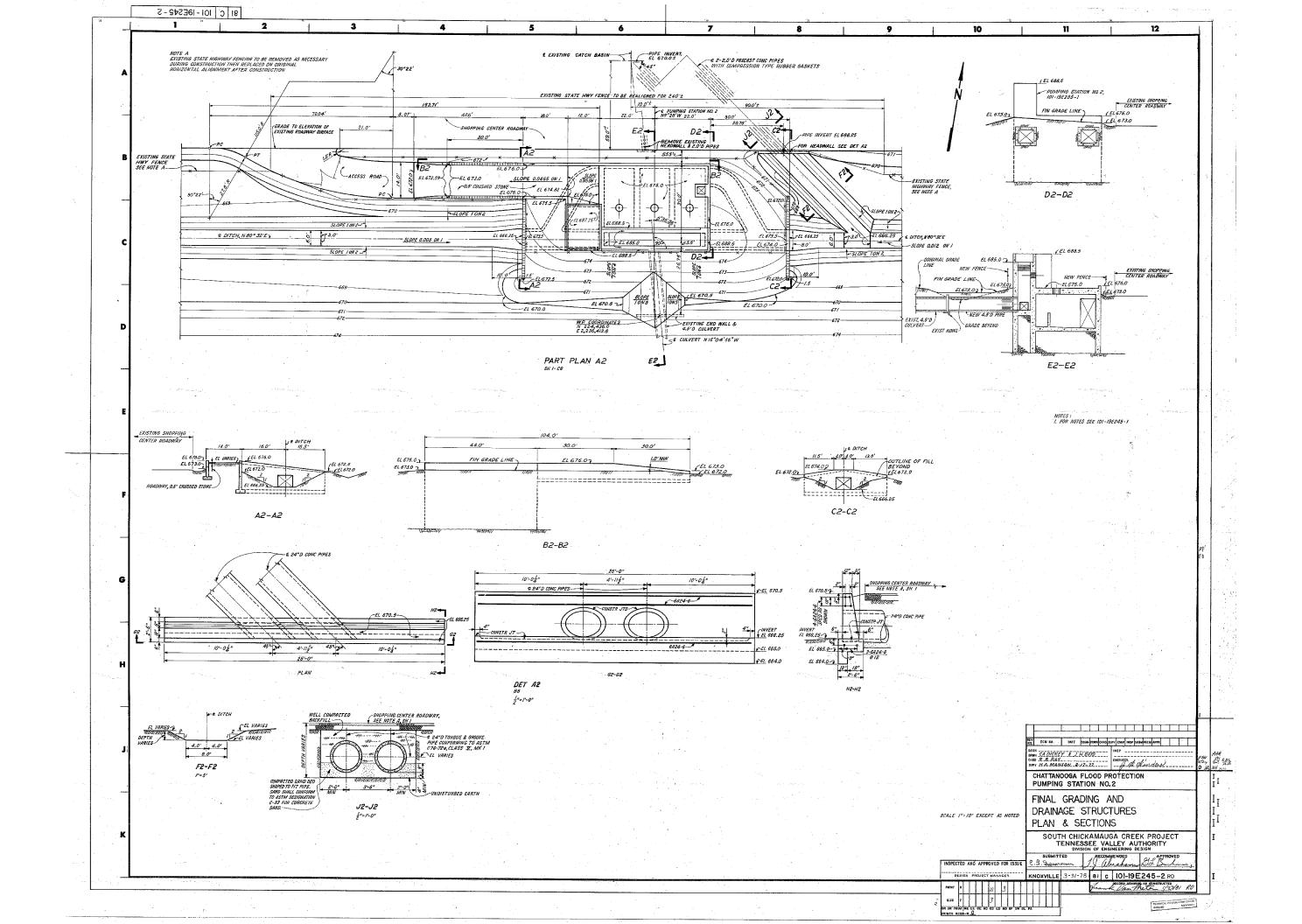


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серт A5 ЮТЕО №55: 2	CHAT TANOC PUMPING FINAL DRAINAG PLAN	MARIA SECTIO	AND CTURES	duus			
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## STRAIGHT REINFORCEMENT BAR LIST

## (FOR FIELD INFORMATION ONLY)

MADE _	J.L. M	AXEY			FOR	DWG. NO.	101-19	E24	5-122 RO
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DATE	J.L. M CHKD; H fur 3- 10-31-7	7			PROJ	ест <u><i>.</i></u>	CHICKA	MAUG	A CREEK
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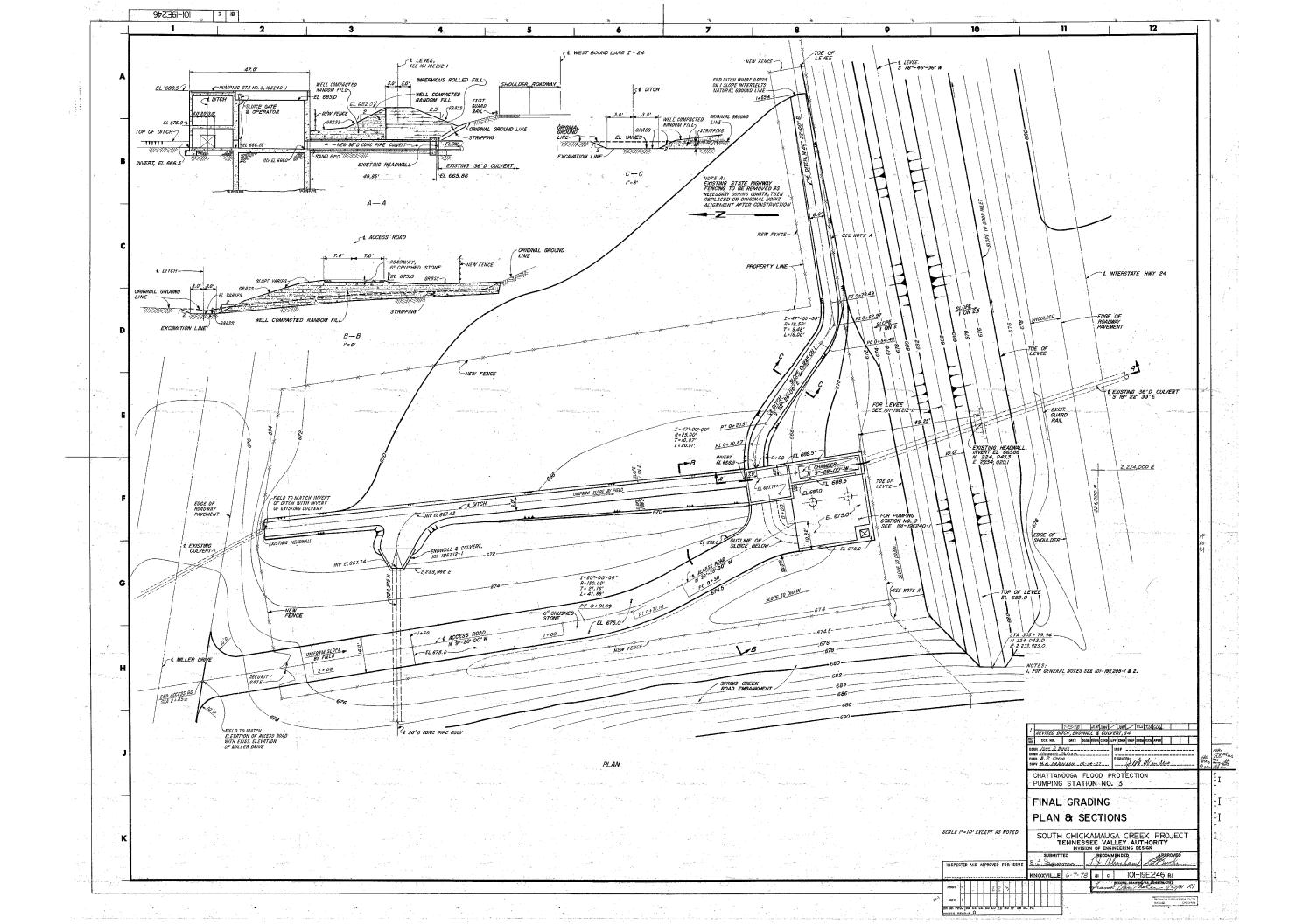
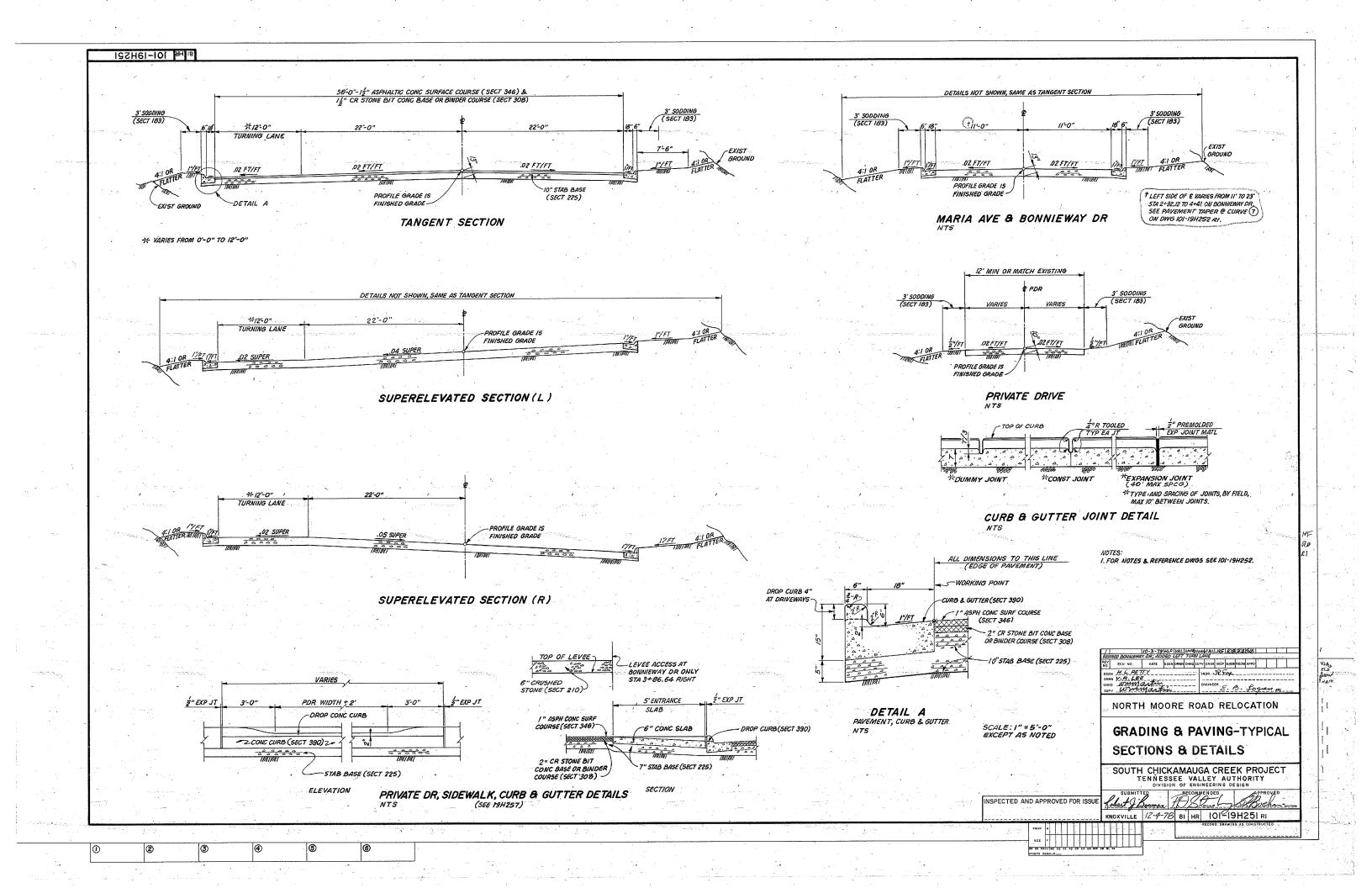
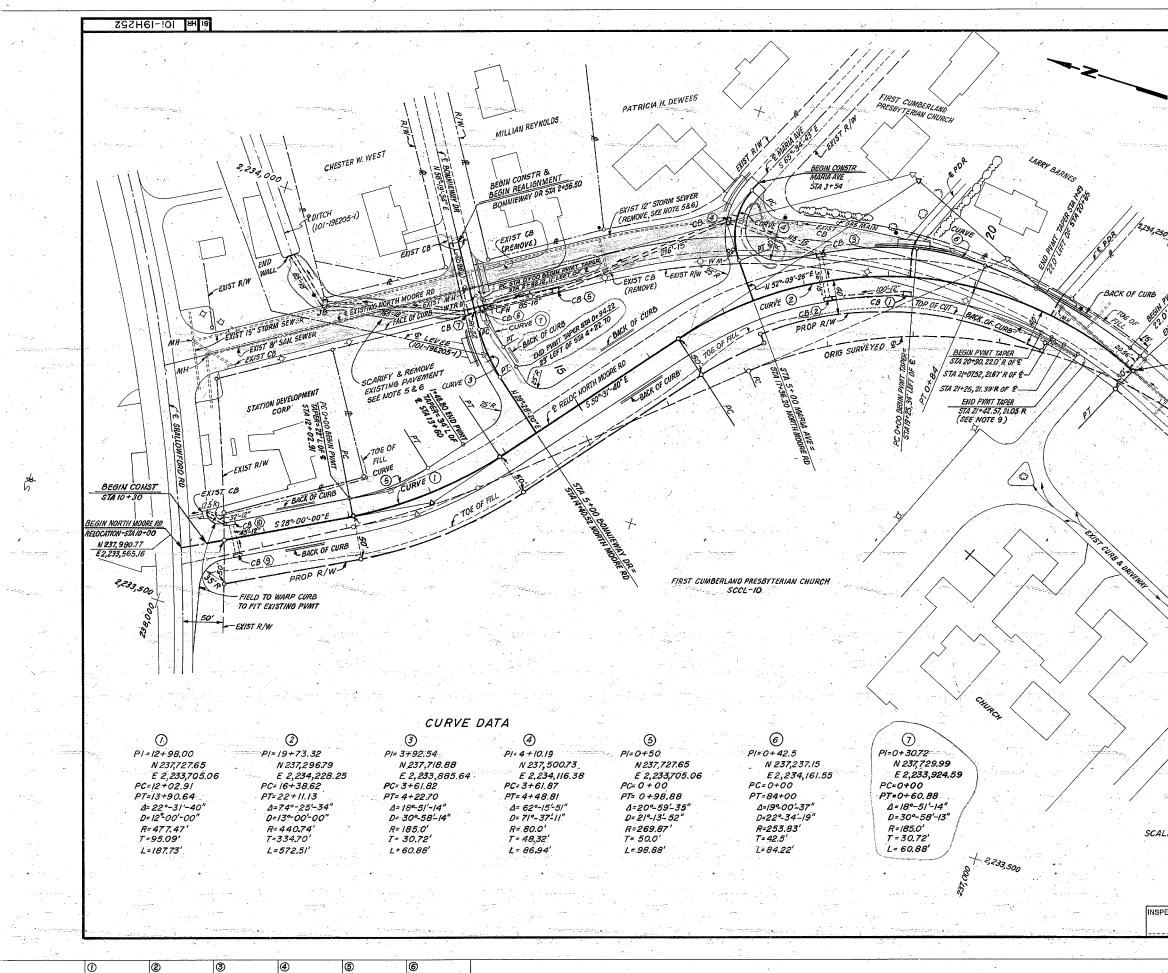


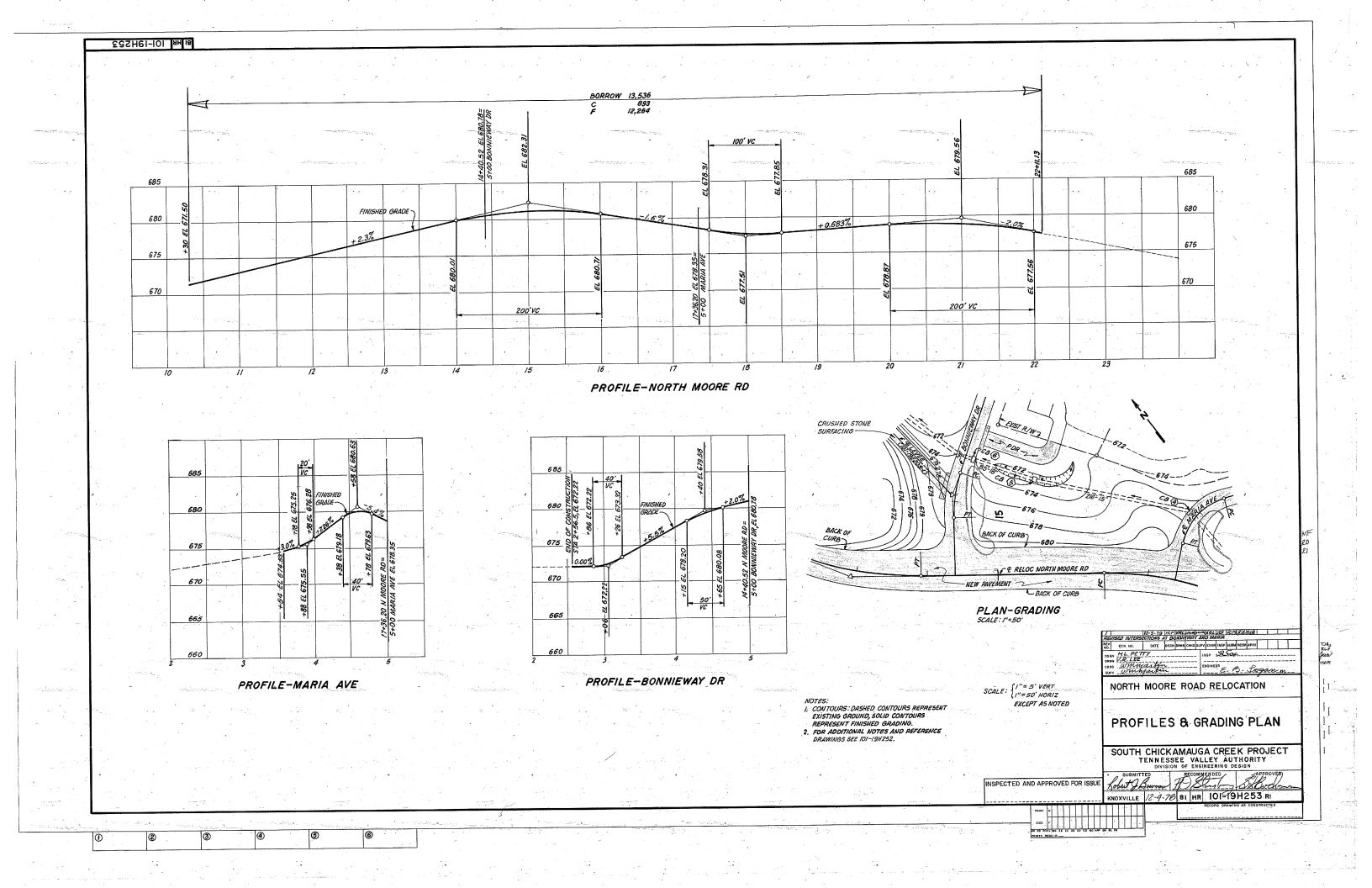
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Image: Section of the sectio					18+20 R N. MC	DORE RD (2)	CB	<u> </u>						· · · · · · · · · · · · · · · · · · ·					LOCATION	en en el de la composition de la compos La composition de la c	DESCRIP	'TION		
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ITEM 00         800         820         830         3272*R BONNEW (DC)         CB         CB <th< td=""><td></td><td>GRASSI</td><td></td><td></td><td></td><td></td><td></td><td></td><td>22</td><td>,<b>i</b></td><td></td><td></td><td></td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td></td><td></td></th<>		GRASSI							22	, <b>i</b>				5								3		
Image: Control in the contro	· · · ·		182 183		3+37.97 R BOI	NNIEWAY DR	СВ						1.2					EX	T.N. MOORE F		AL OF EXIS	ST. CURB		
BONKEWN         E40         FEAD OF DITCH         MORE ALL         Control									(165					105	*					& GUTT	TER	<u> </u>	2000'	
IDE30-22-11158     IRED     IRED OF DITCH     W/Y     IDE0     0.90     20       B:40-7740     IS,27     DO-00 R M MORE R.D. @     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0			1		INW CORNER (	W. WEST HE	(JB)		Car	n (2.00)	1 (130)	( Leiner		20				22	+11.13					
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TOTAL         IDESDL N MODER ER         OR         SZ         IDESCL N MODER ER         OR         SZ         IDESCL N MODER ER         OR         IDESCL N MODER ER         IDESCL N MODER ERAD INFORMATION INFOR					10+60 R N MO	ORE RD	СВ		and the second second				- ton		and the second s		- and the second se		1770			1		day.
TOTAL         18,052         19,052         19,052         19,052         19,052         19,052         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10		I0+30-22+11.13R8L	7170					45'		-				15					<u> </u>					
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3+3737 B GONNEWAY DR (7)         263         387         (337)         (5,08)         10         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1					EXIST CB SHAL	LLOWFORD RD		<u> </u>	sa si				t w the product			1. 1944 1. 1944 1. 1945				e e e e e e e e e e e e e e e e e e e				
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3+3/3/H BUNNEWAR DR (2)         3+3/3/H BUNNEWAR DR (2)         253         387         (33)         (5,06         150         860         8         410           Image: Constraint of the second								86,				a fair an	Same and the second	.40			and a second sec			na in an	· .		~ '	
TRAFFIC SIGNS         DROP CURB ENTRANCE           4:40 R BONNIEWAY         STOP SIGN(RI-1)*         EACH         4         IDCATION         955         IDCATION						ONNIEWAY DR		003 30	- 677			(000)						- <u></u>						
LO CATION         DESCRIPTION         UNIT         QUANTITY         ITEM NO.         398         Image: Concentration of the second of		No. Contraction of the second						200 30	337	10.06	100	000	8	410		<u></u>		1		10-10-00 miles		++	na ing ng kangana Tang	
4+40 R BONNIEWAY         STOP SIGN (RI-1)         EACH         4         DOCATION         PVT DRVE         SOORC WUTH, FT         SO, YOS.         Colored         Colo					<del></del>	the set	DROP CL	IRB ENTRA	NCE						a an				÷		· · · · · · · · ·			 2
Iz+50 L N MOORE ROAD         Signal AH (W3-3)         EACH         I         IgH 23 N MOORE ROAD         Igh         Iz5         Igh         Igh<	State of the second sec				тү		ITEM NO.		395	· · · · · · · · · · · · · · · · · · ·		-				a y c							·	
Iz+50 L N MOORE ROAD         Signal AH (W3-3)         EACH         I         IgH 23 N MOORE ROAD         Igh         Iz5         Igh         Igh<							LOCATION	PVTD	RIVE SIDE WAL	ĸ		n a Ministration Anna anna anna anna anna anna anna ann		<u>***</u>	La fonda tanangan An An An Angelan An Angelan Angelan		****	······································	n na			1/0-3-70	HLD VAL MERT	841 10
IB+OOL N MOORE ROAD       RIGHT LAME MUST       20-95L N MOORE ROAD       I8'       I3.5       III       IIII       IIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			SIGNAL AH (W3-31	EACH							1										REVIS	SED SURFACING, C	DSGN DRWN CHROIS	UPY EN
In 10°00 L IN MOORE ROAD       RIGHT LARE MUST       3*8654R BUNNIEWAY DRIVE       14       115       Image: Control of the second secon		15+00 L N MOORE ROAD				11111111111111111111111111111111111111										i <del>nin lanna</del>	100 and			<u>enterineni) zeuz (</u>	DSGN _	H.L. PETTY	<u> </u>	INSF
In POOL EIN MOURE ROAD       RIGHT LARE MUST       3+86,54K BUNNIEWAT URIVE       14       11.5       14       11.5       14       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5       11.5				EACH I		2+98L	BONNIEWAY	DRIVE I4	5 11.5			- Second				<u></u>			*	2	CHKD	ummartin		ENGI
Image: Second		18+00 L N MOORE ROAD			· · · · · · · · · · · · · · · · · · ·						1													
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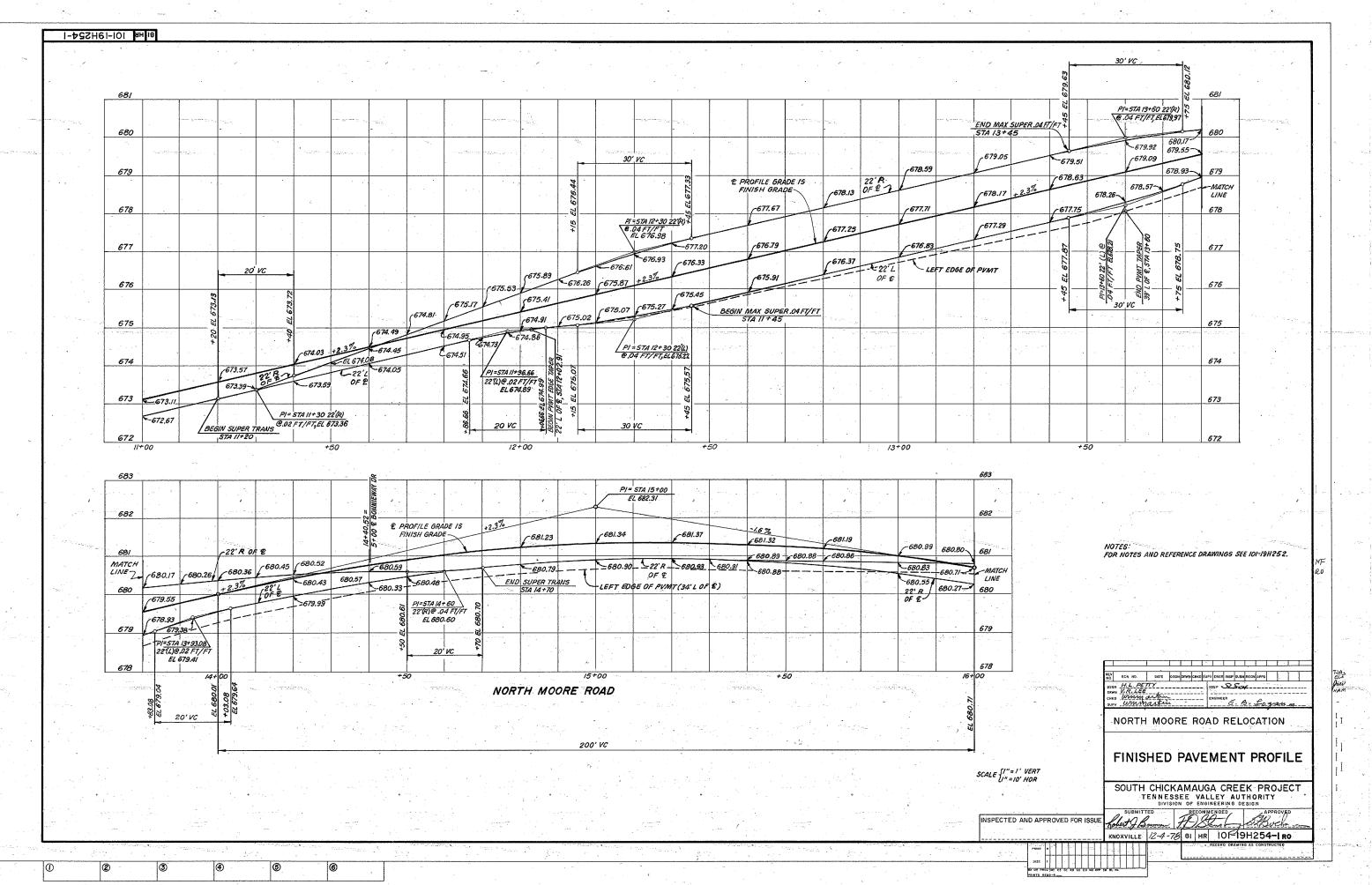
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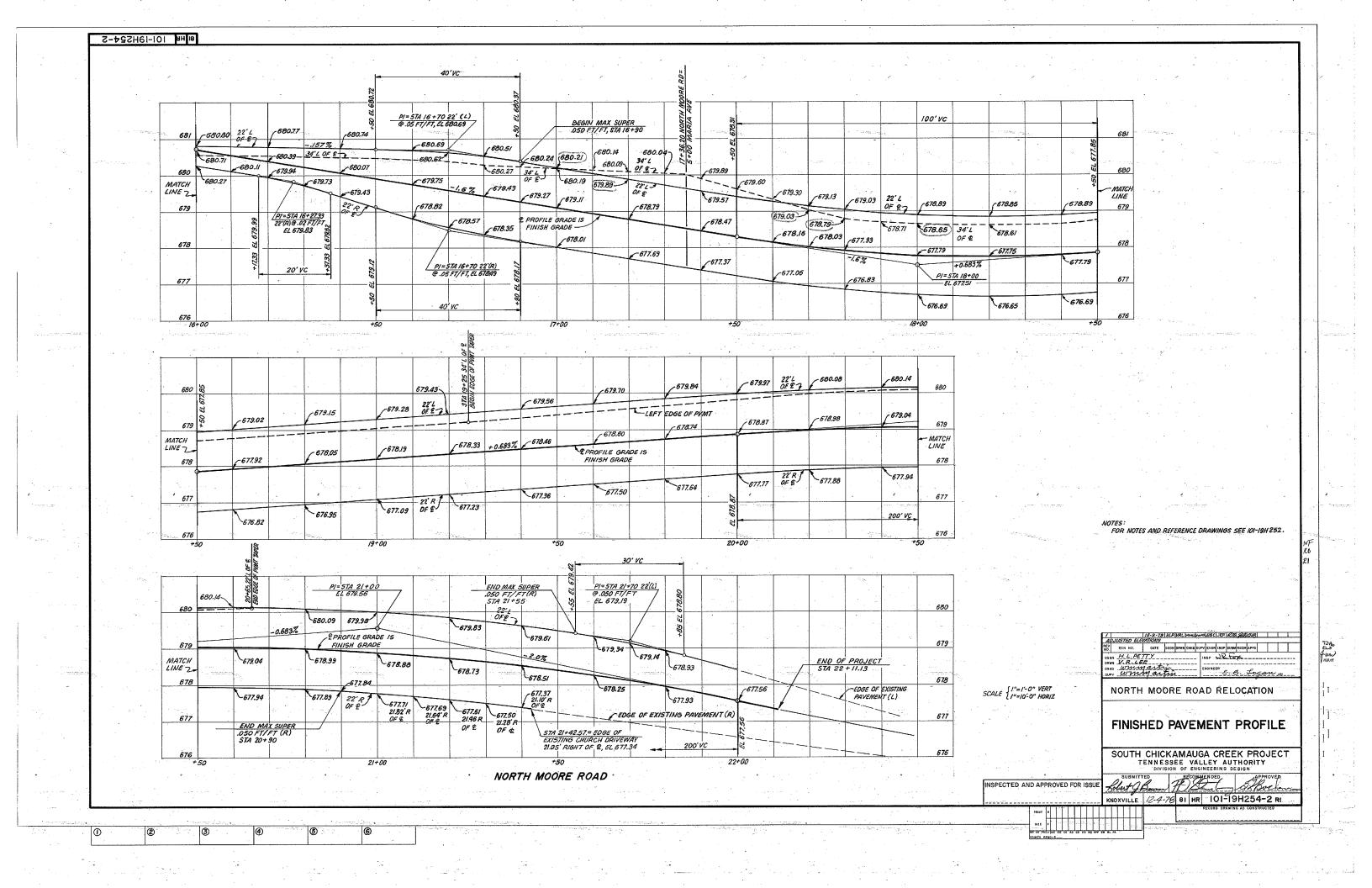


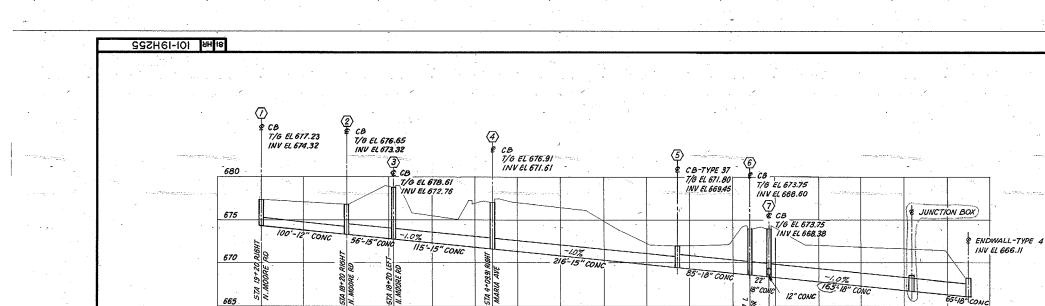
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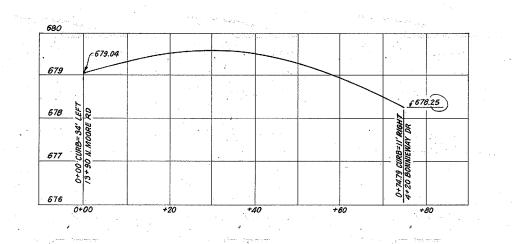


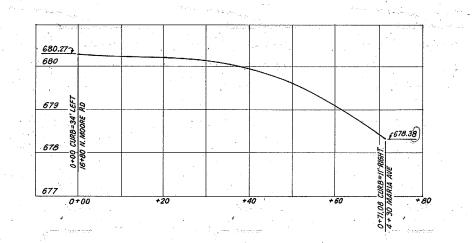


## DRAINAGE PROFILE SCALE: {VERT: 1"= 5' HORIZ: 1"=50'

12" CONC

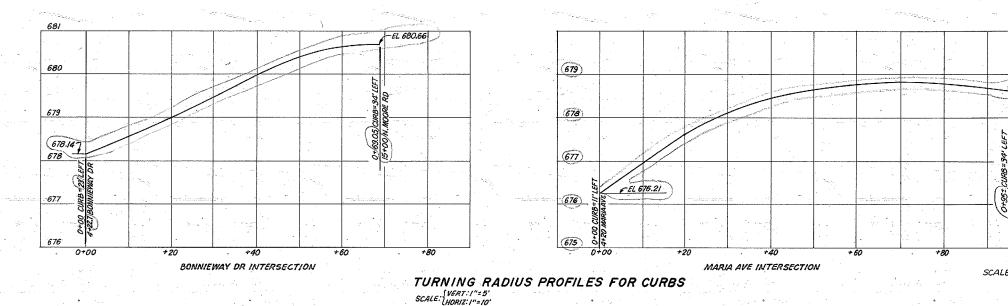
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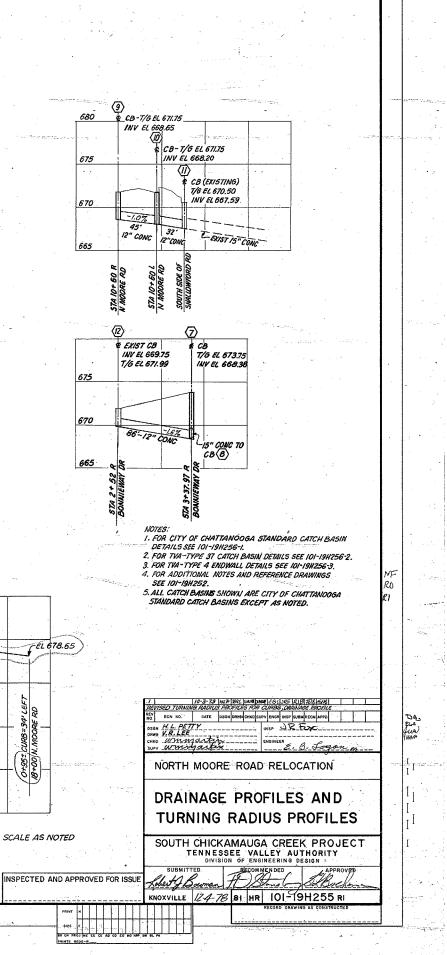


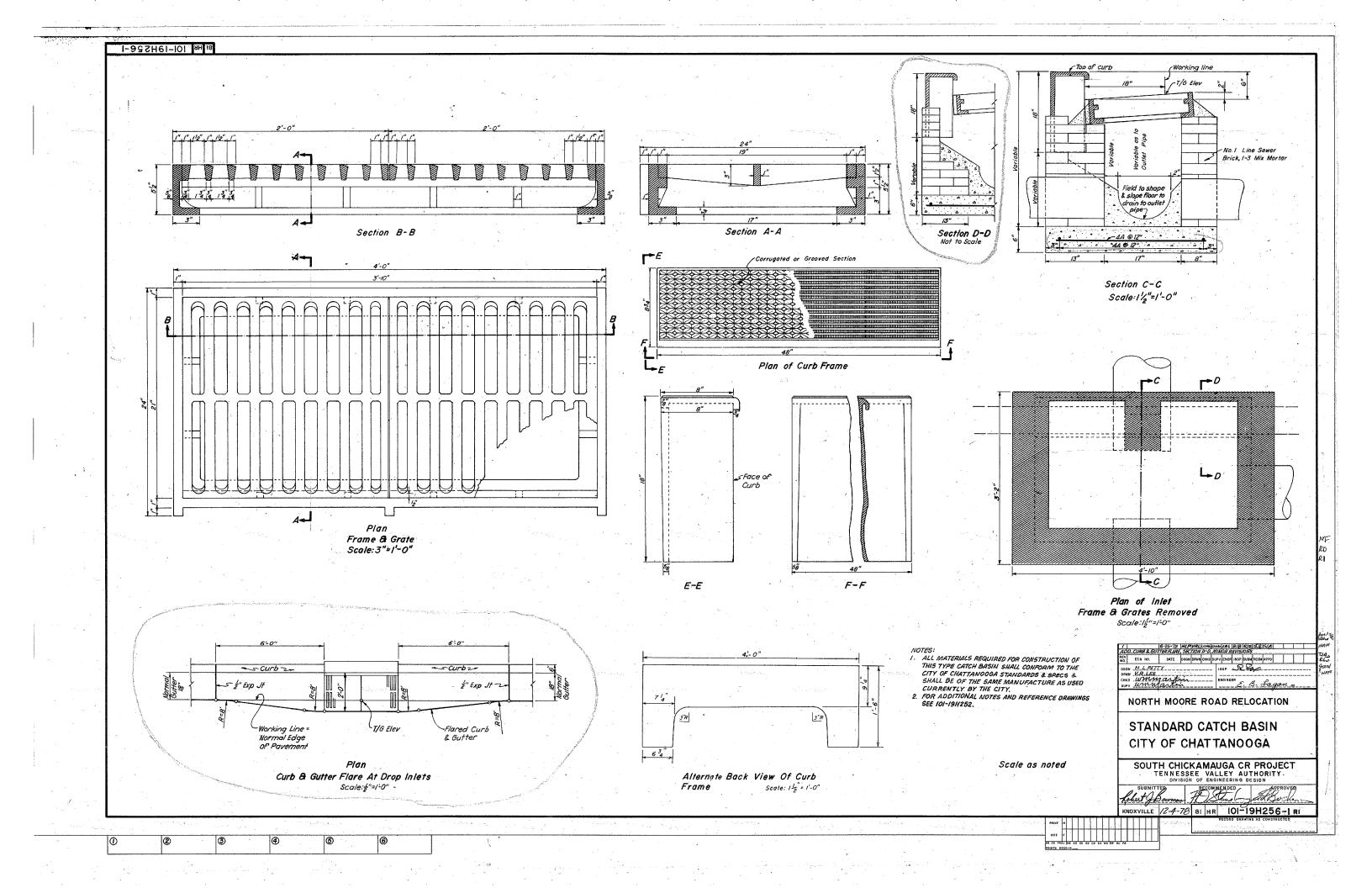
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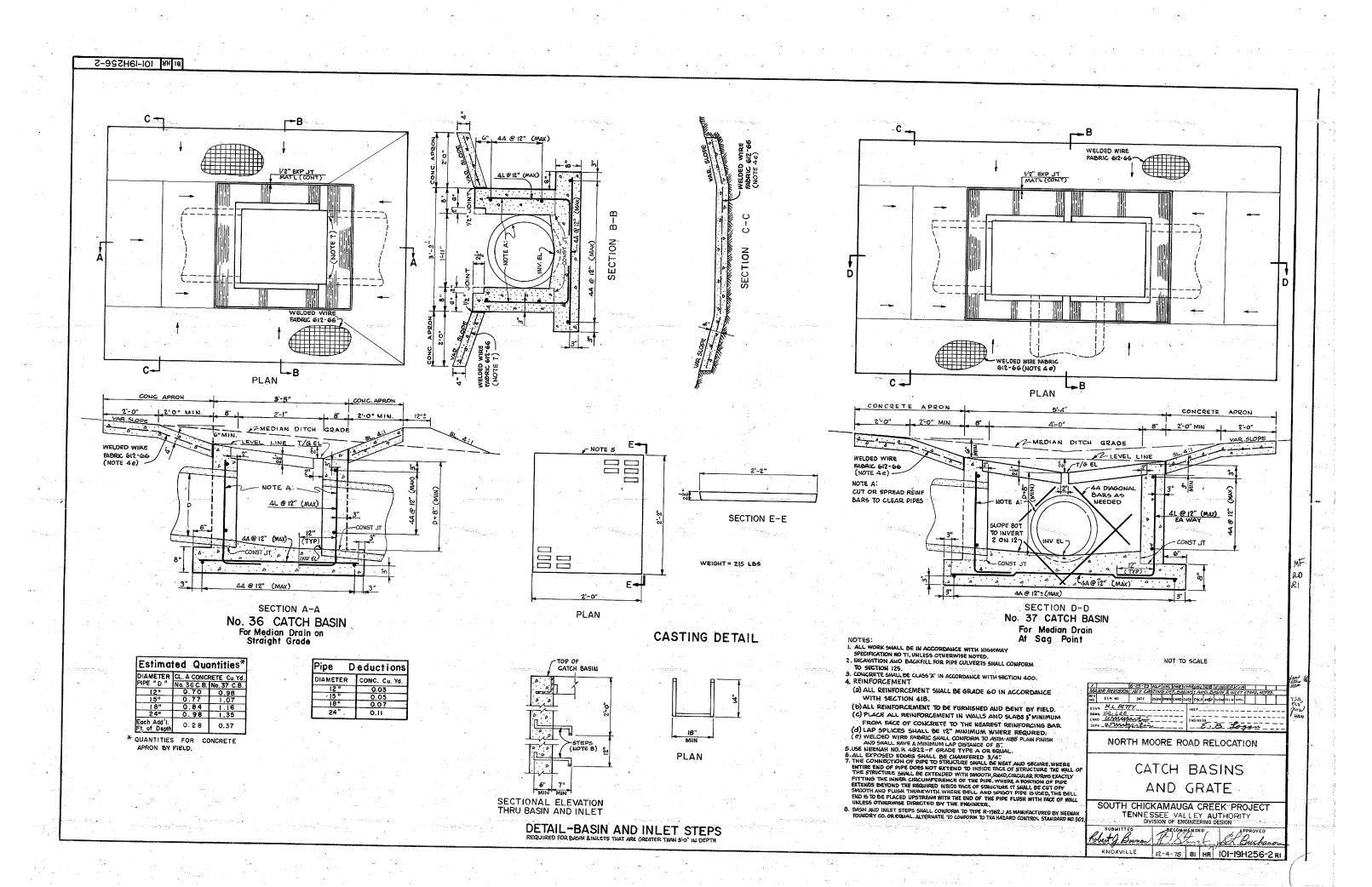
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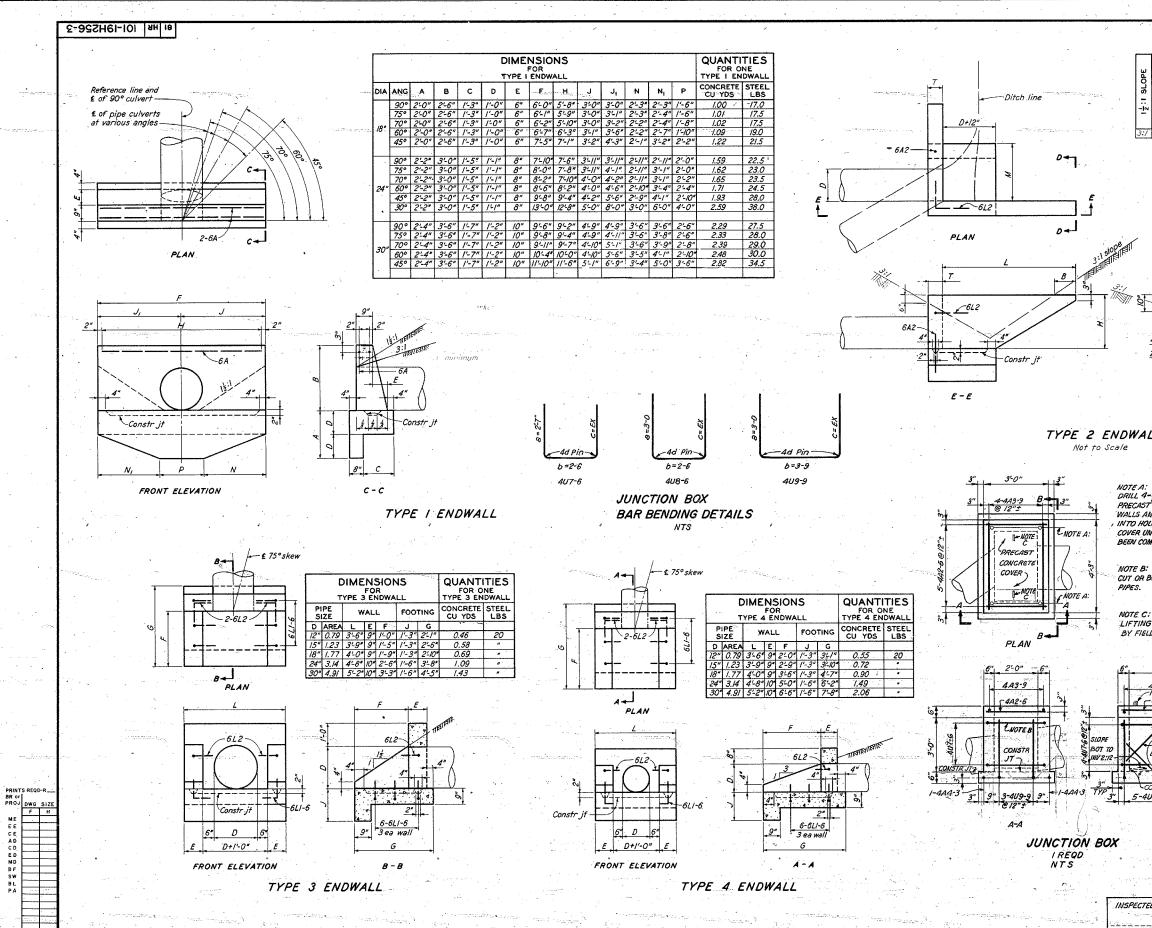
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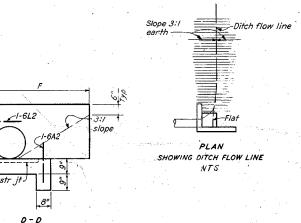






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OPE			QUANTITIES FOR ONE TYPE 2 ENDWALL						
SLC	D	H F				м	в	CONCRETE CU YDS	STEEL LBS
-1~	18"	2'-6"	4'-6"	6'-3"	0:8"	2'-8"	1'-0"	0.9/	None
-	. 24"	3'-0"	7'-0"	6'-6"	0'-9"	4'-5"	1'-3"	1.57	6
	30"	3'-6"	10:0"	7'-0"	0'-10"	6'-8"	1'-9"	2.58	6
3:1	30"	3'-6"	71'-0"	13'-3"	0'-10"	6'-8"	1'-9"	3.05	6



NOTE A:  $-\frac{5}{8}$ " D HOLES THRU DRILL 4- $\frac{5}{8}$ " D HOLES THRU PRECAST COVER AND INTO WALLS AND PLACE #4 REINF , INTO HOLES TO STABLIZE COVER UNTIL BACKFILL HAS BEEN COMPLETED, BY FIELD.

NOTE B: CUT OR BEND BARS TO CLEAR PIPES.

NOTE C: LIFTING COVER HOOKS BY FIELD.

4A2-6

·4A3-9

NOTES:

SPECIFICATIONS: Construction of these structures to be in accordance with Highway Specification -No. TI. EXCANATION, FOUNDATION, AND BACKFLL: Section 125. CONCRETE: Section 400, Class B concrete, type II portland cement. REINFORCING STEEL: Section 418.

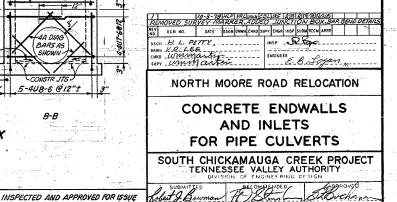
REINFORCING STEEL: Section 418. CHAMFER: All exposed edges shall be chamfered <sup>2</sup>/<sub>8</sub>". ENDWALL TYPES: Types 3 and 4 may be used for pipes skewed from 75° to 90°. Use dimensions and quantities given for 90° pipes. For all other skews use walls of type I and 2 only. CONNECTION TO PIPE: The connection of pipe to endwalls shall be neet and secure. Where entire end of pipe does not extend to front face of endwall, the barrel of the culvert shall be extended with smooth, rigid, circular forms exactly fitting the inner circumference

CONNECTION TO PIPE: The connection of pipe to endwalls shall be neat and secure. Where entire end of pipe does not extend to front face of endwall, the barrel of the culvert shall be extended with smooth, rigid, circular forms exactly fitting the inner circumference of the pipe. Where a portion of pipe extends beyond the required front face of endwall, it shall be cut off smooth and flush therewith. Where bell and spigot pipe is used, the bell end is to be placed upstream with the end of the pipe flush with face of wall, unless otherwise directed by the Engineer.

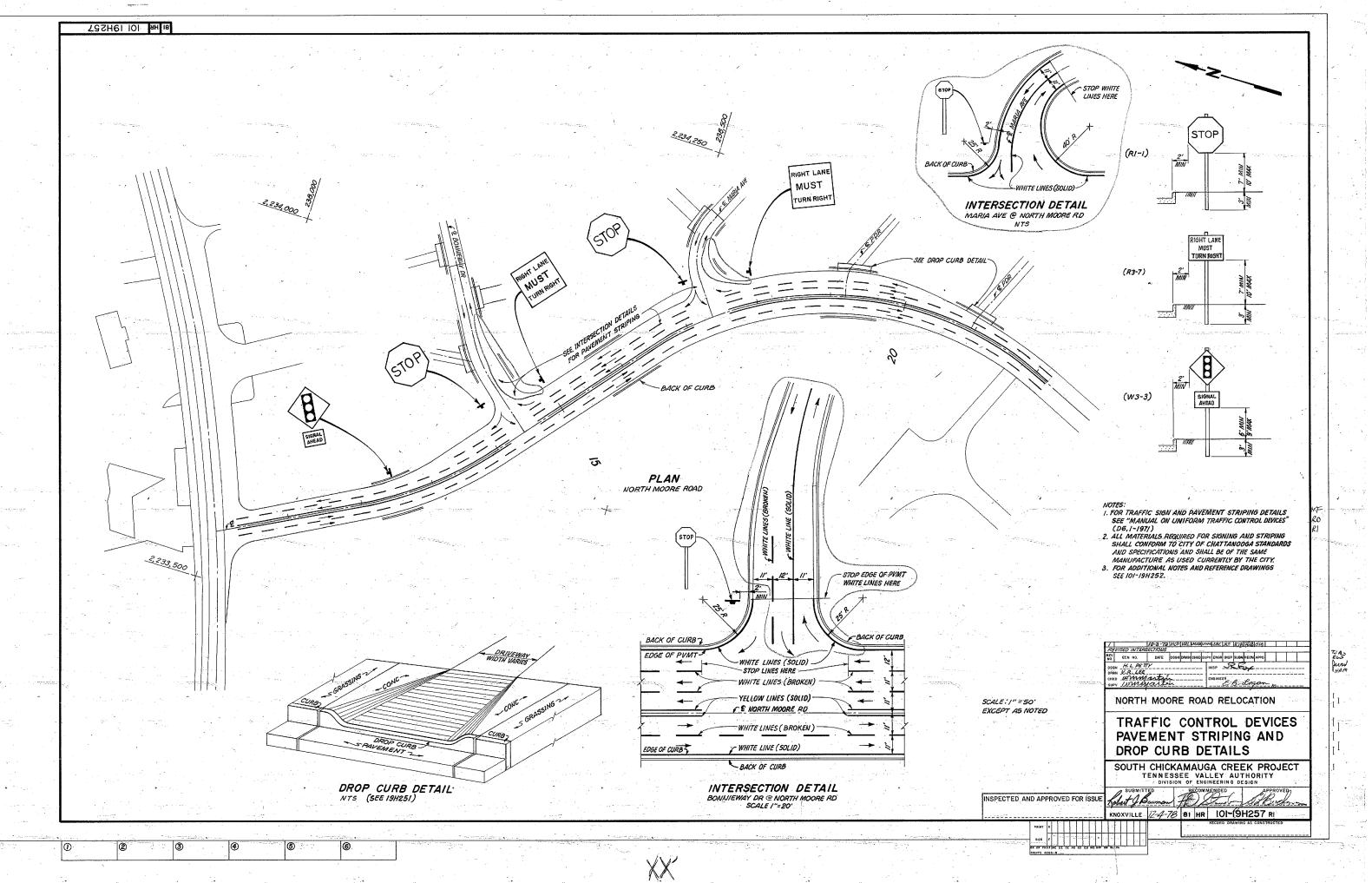
Where bell and spigot pipe is used, the bell end is to be placed upstream with the end of the pipe flush with face of wall, unless otherwise directed by the Engineer. ENDWALL IN ROCK: Where solid rock is encountered the apron and cut-off wall shall be omifted and the endwall otherwise modified as required. Provide adequate construction keyways between concrete and the rock fans. For additional notes & reference dwgs see 101-19H252.

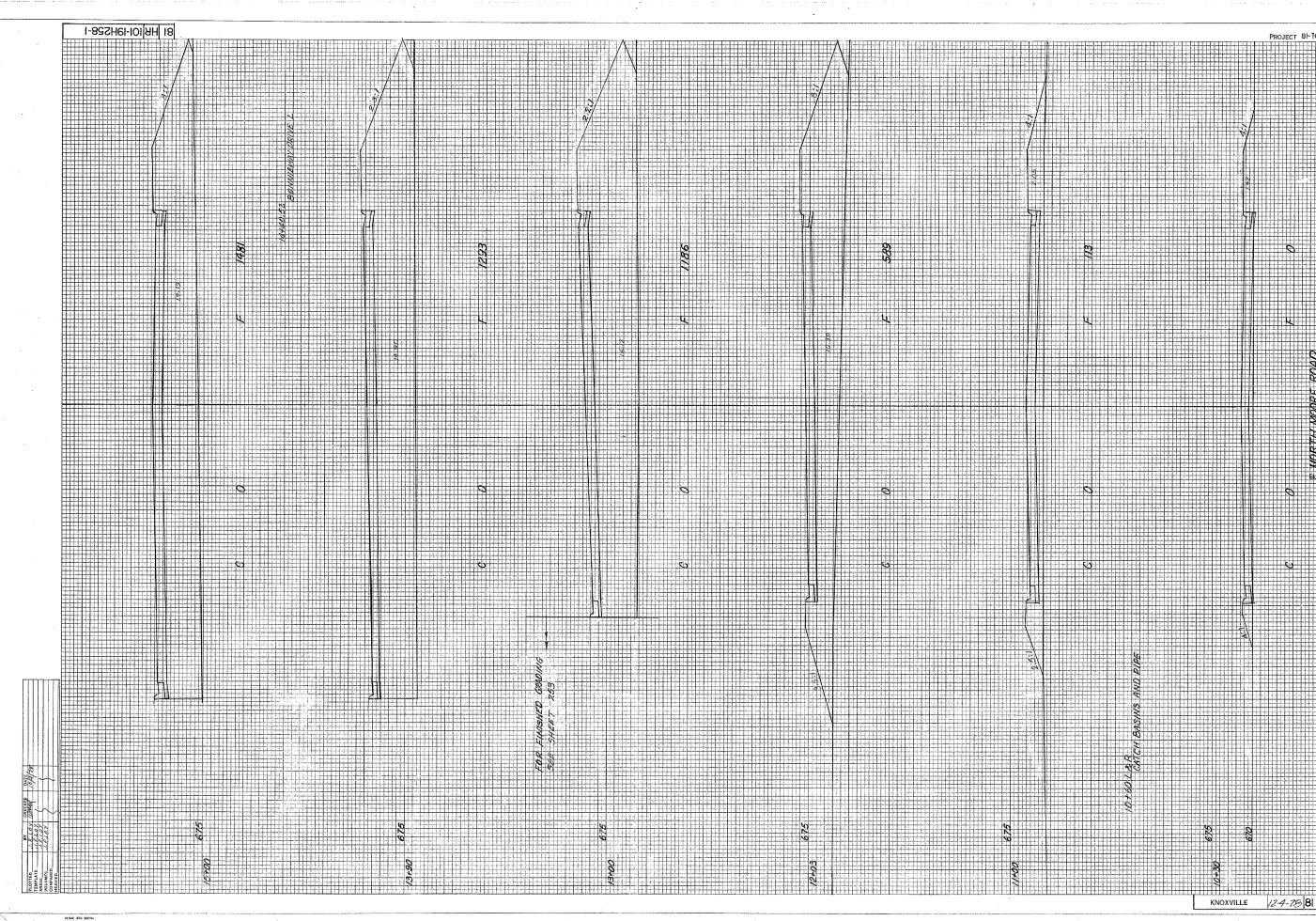
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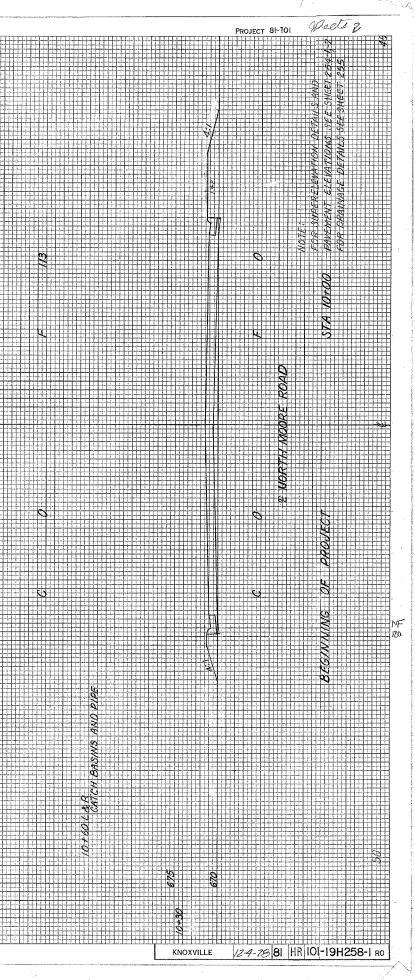
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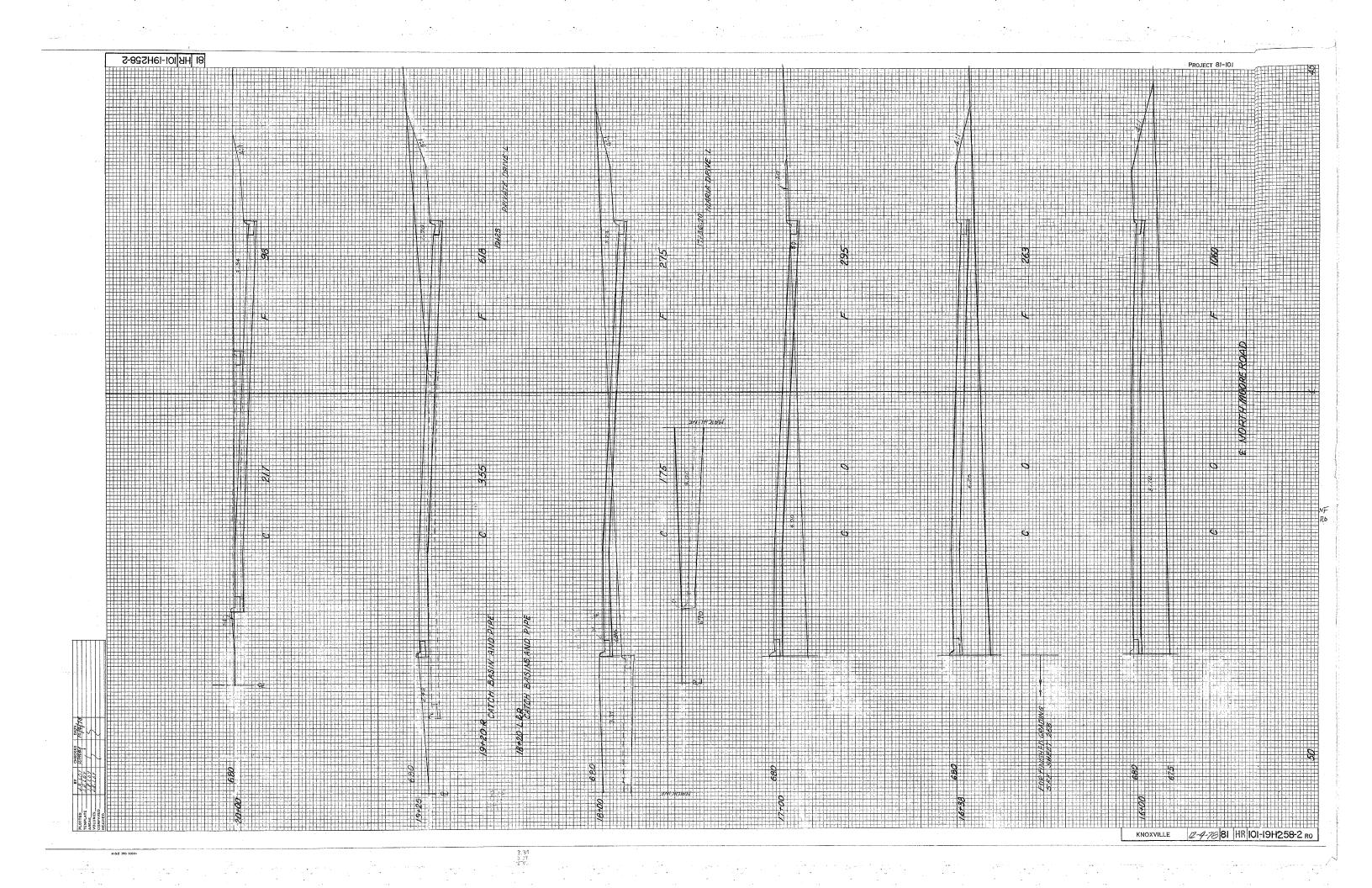


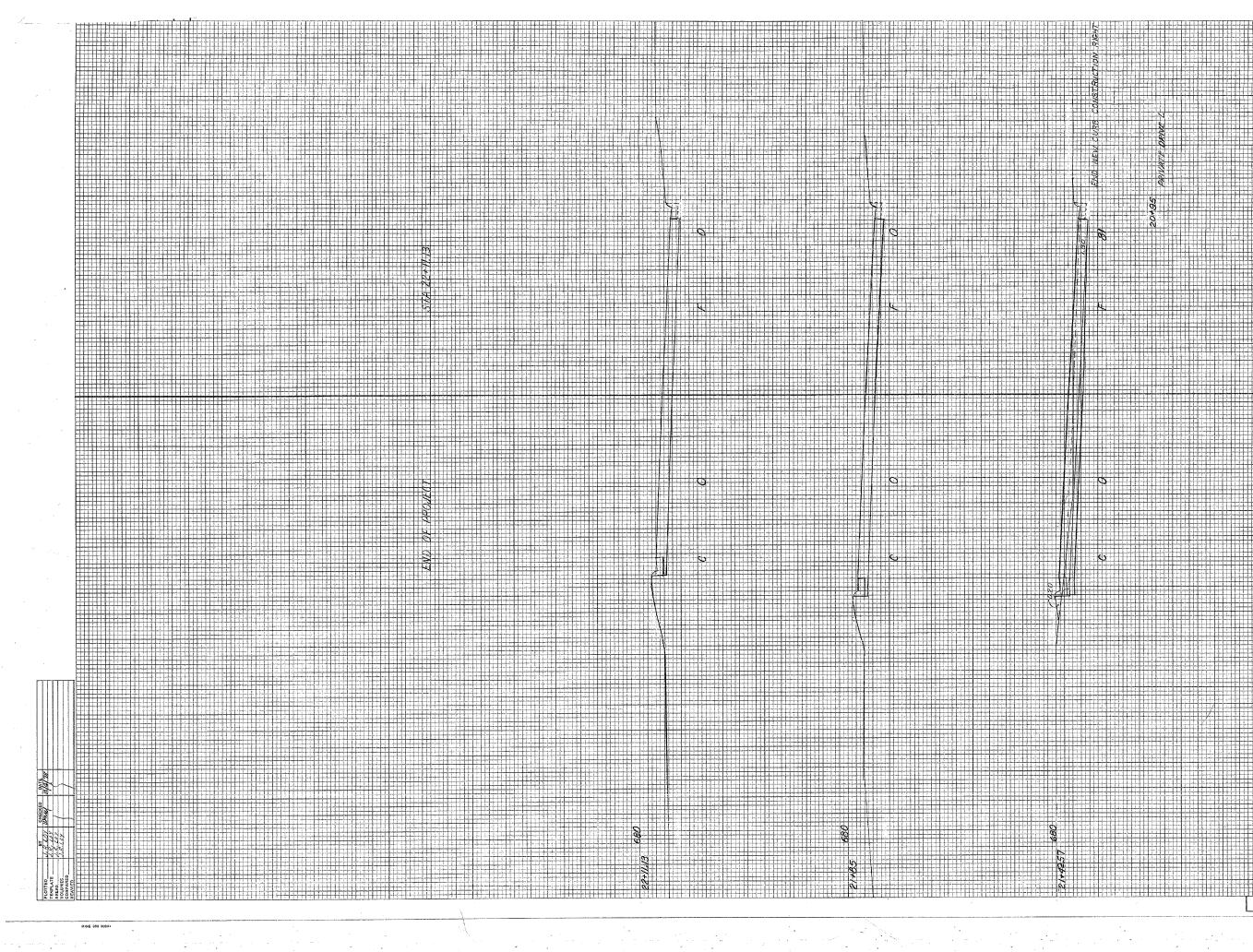
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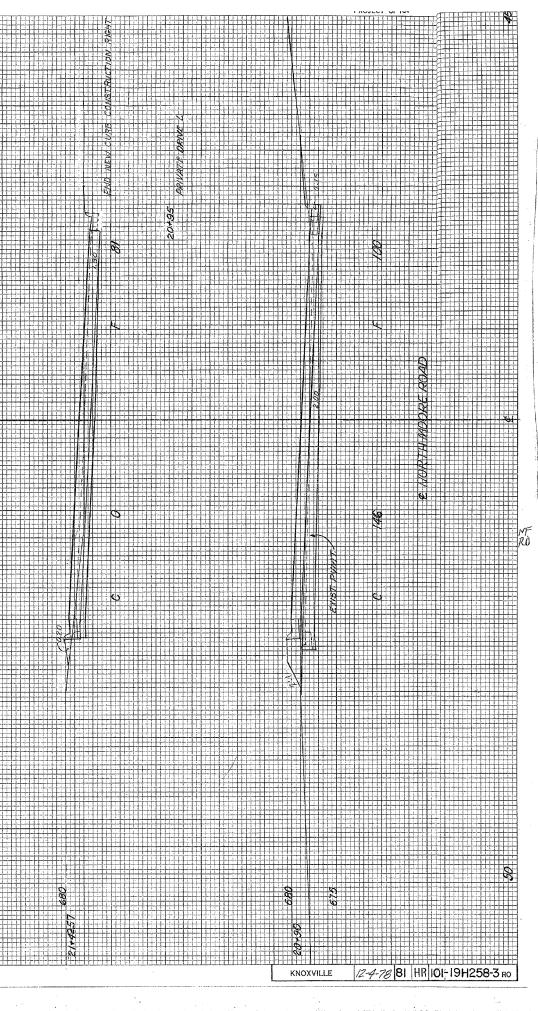


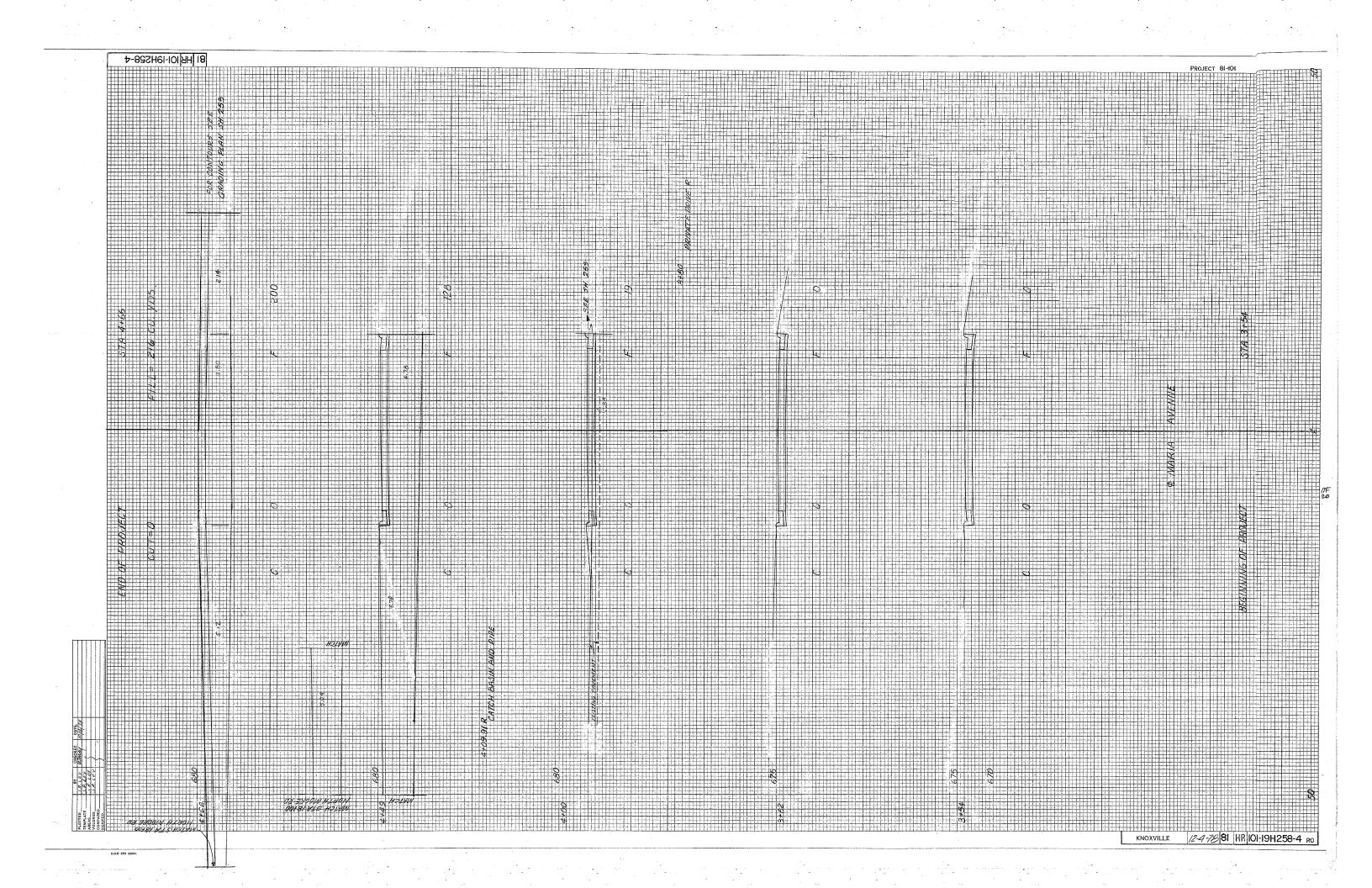


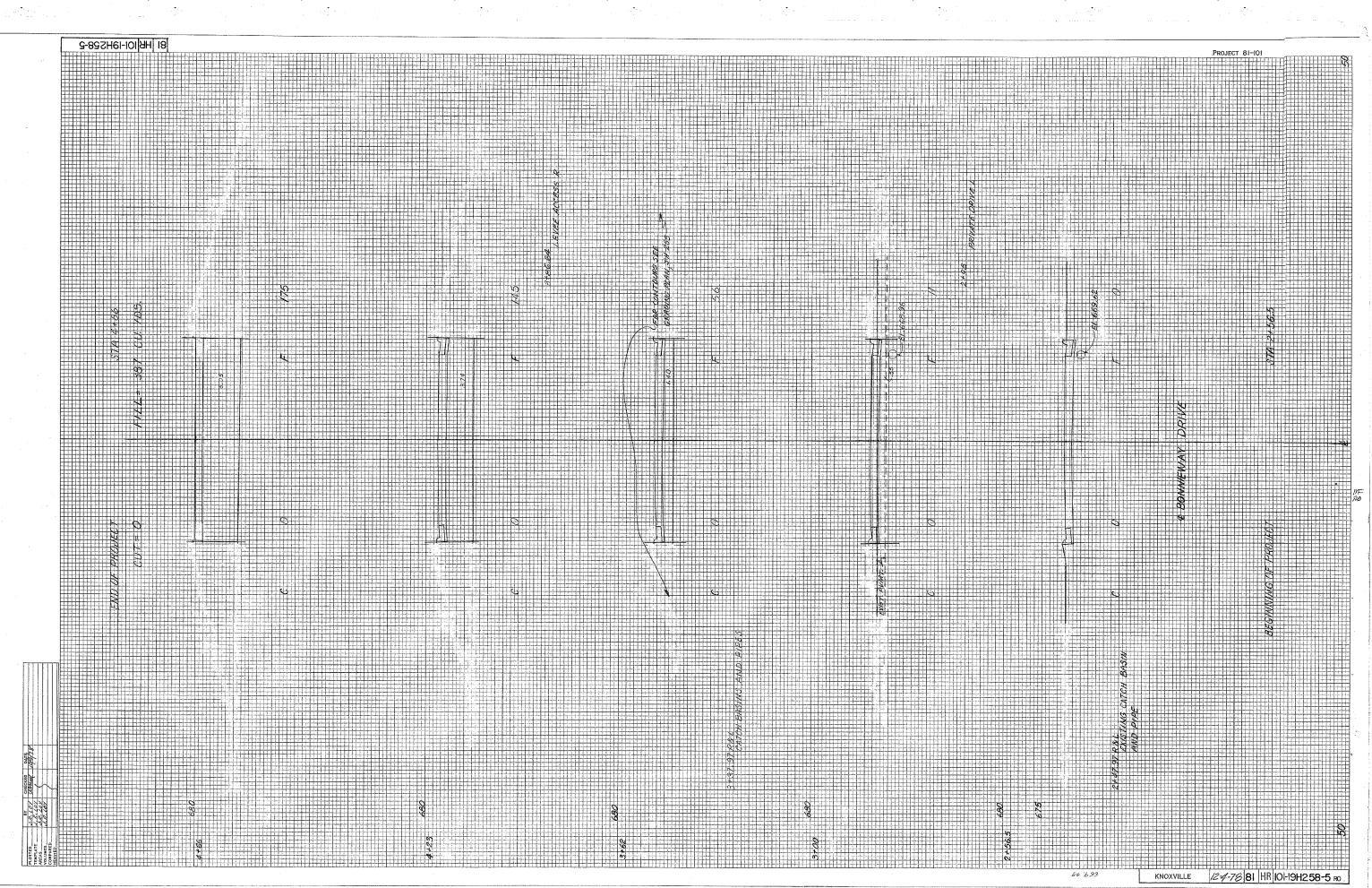


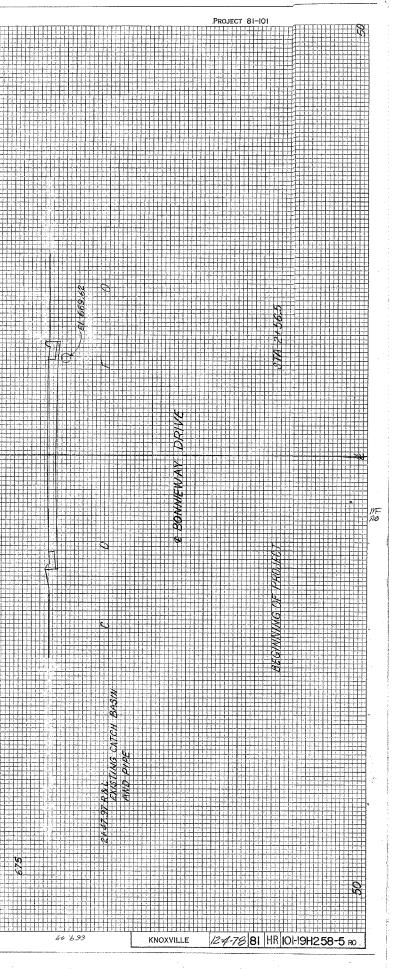


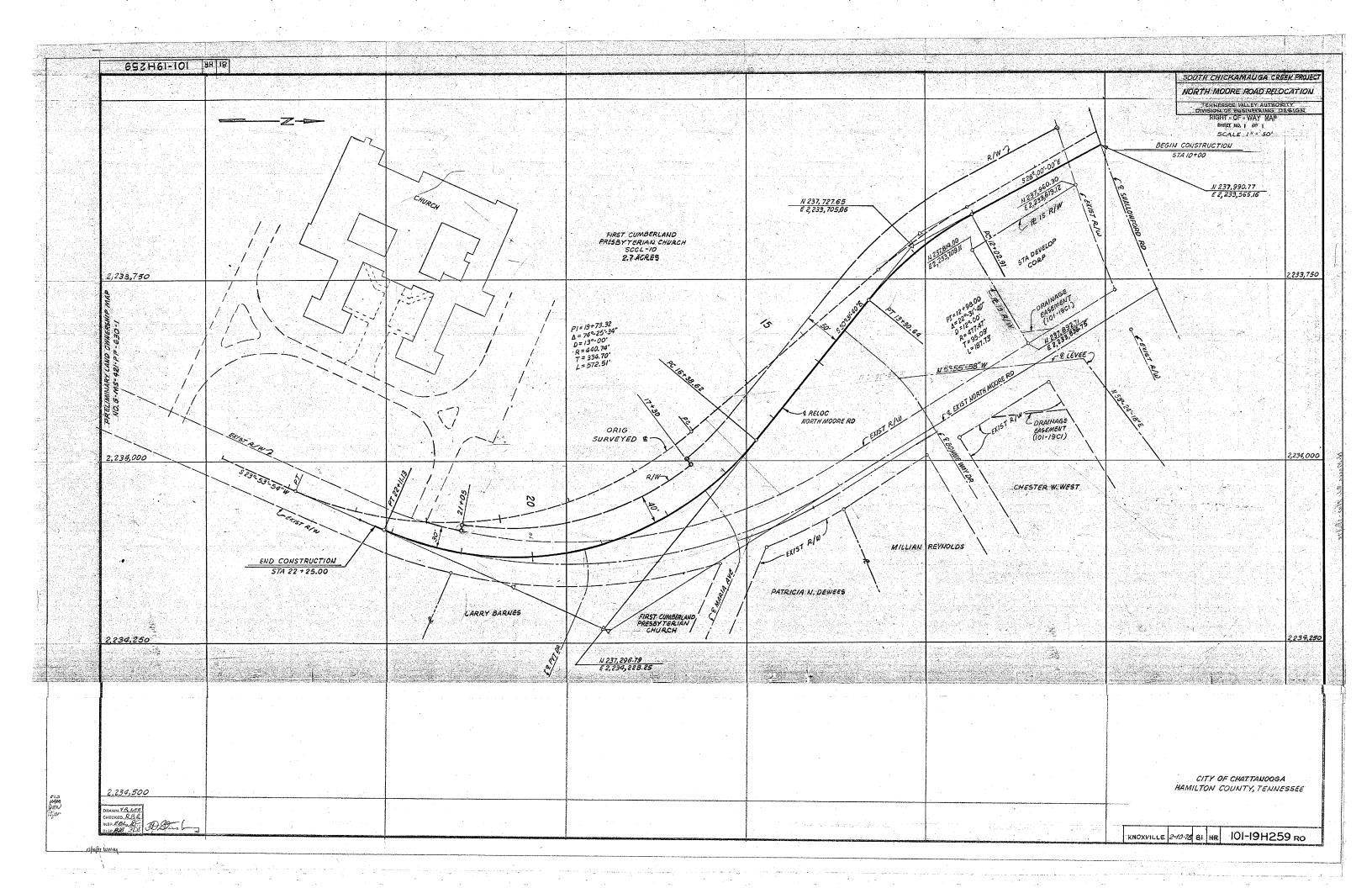


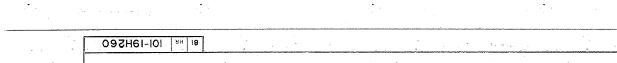


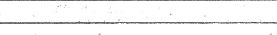


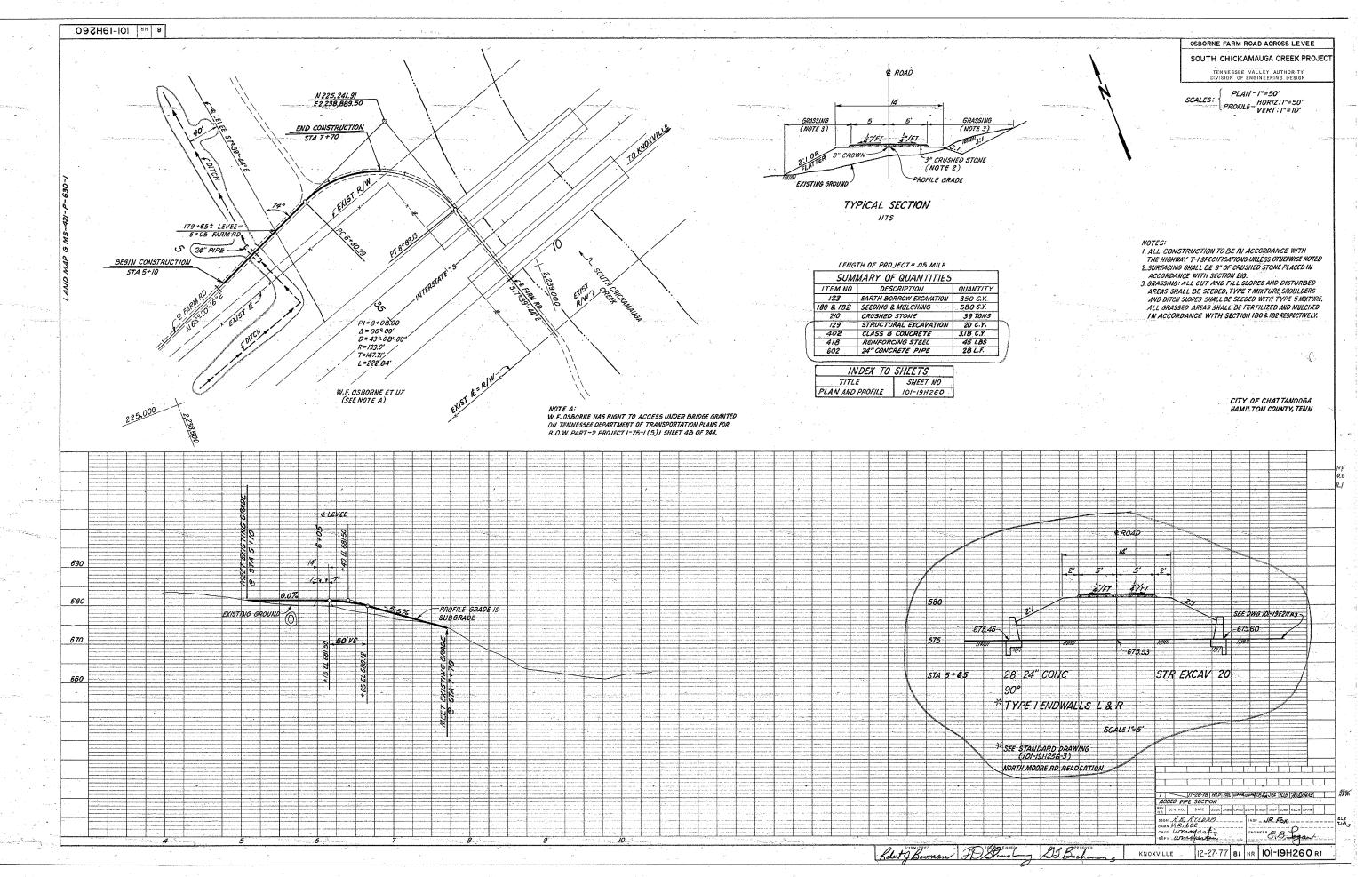




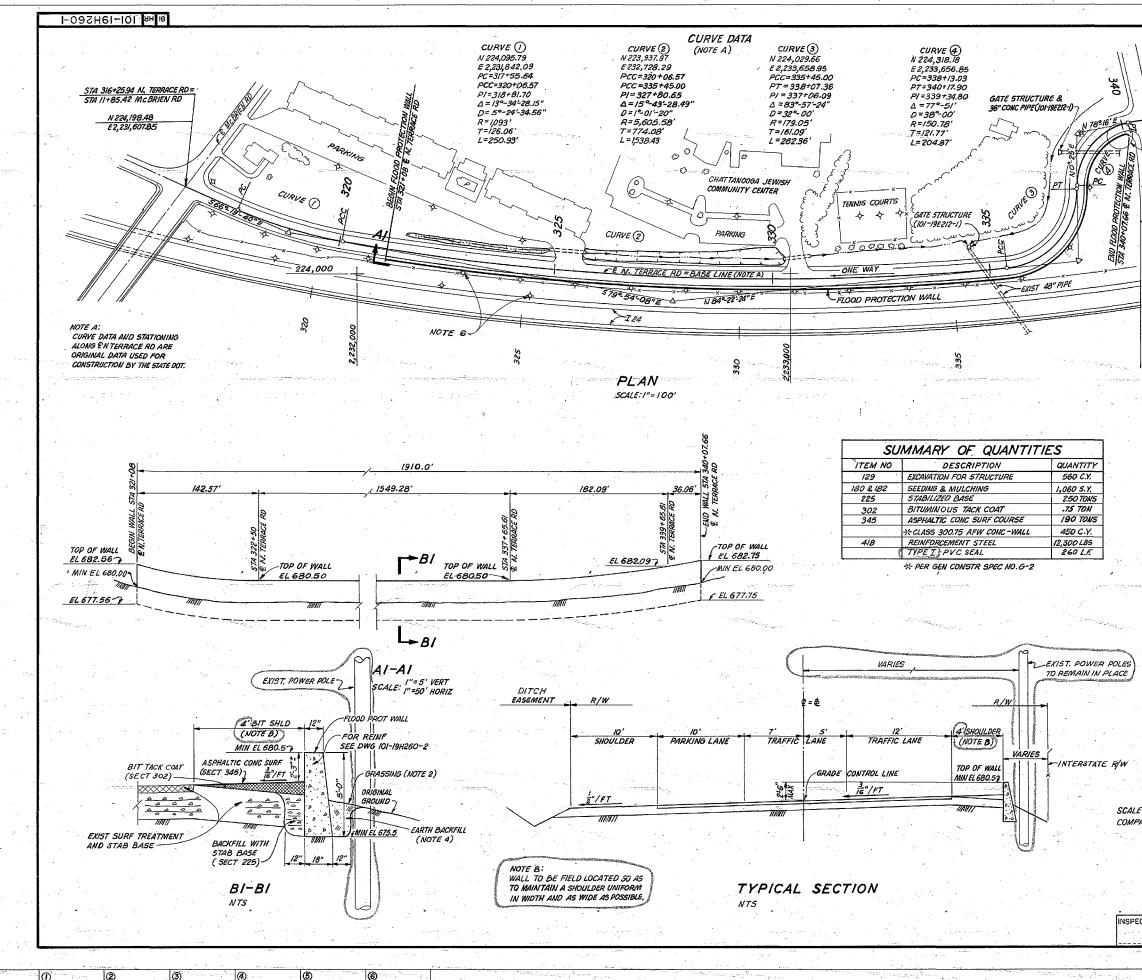




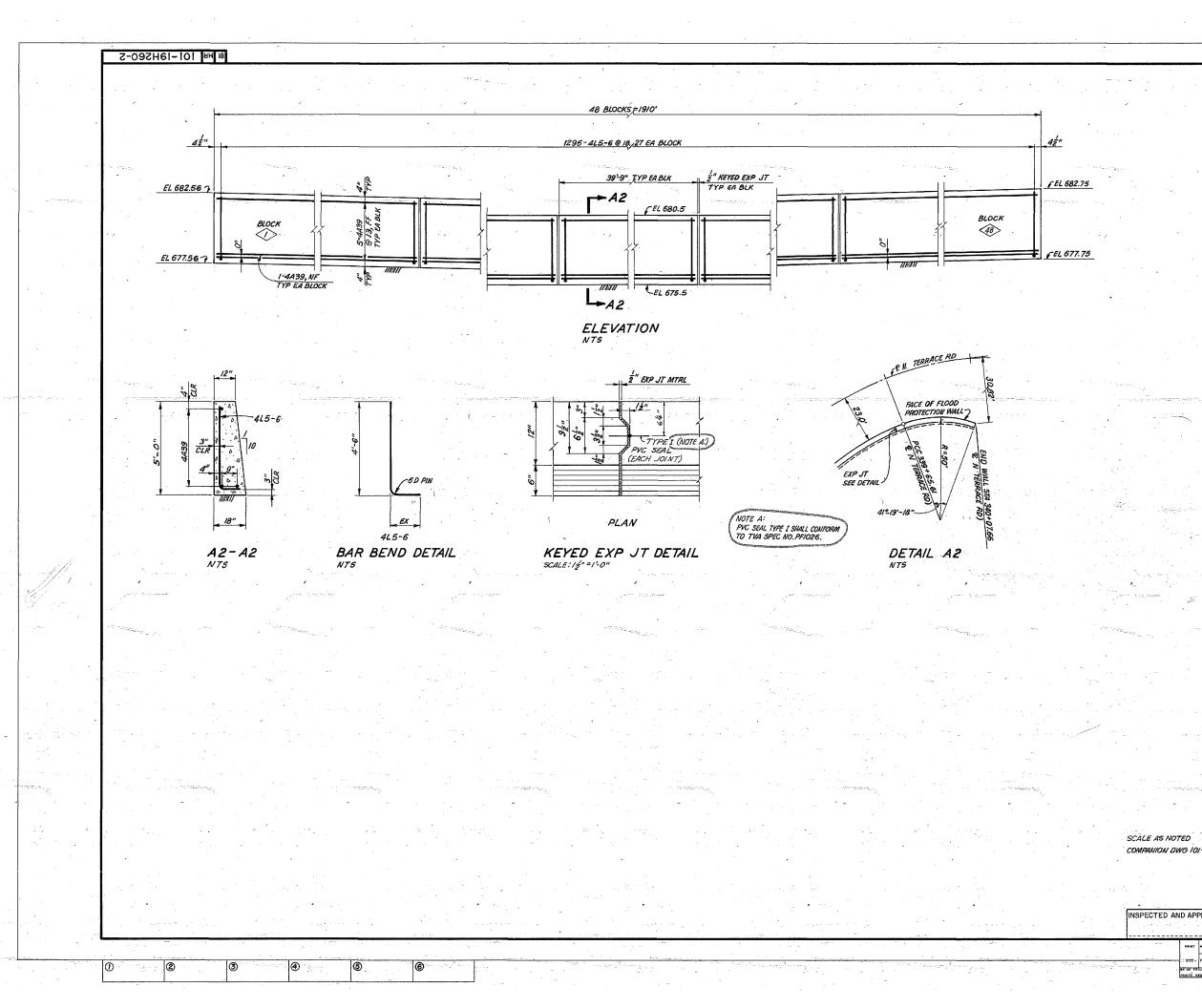








STA 340+72.32 N. TERRACE RD = STA 39+03.28 SPRING CR RD N 224,354.01 E 2,333,829.36 DETAIL A2 NOTES 1. SPECIFICATIONS: ALL WORK SHALL BE IN ACCORDANCE WITH THE T-I HIGHWAY SPECIFICATIONS, EXCEPT AS NOTED. NOTED: 2. GRASSING: ALL DISTURBED AREAS SHALL BE SEEDED WITH TYPE 6a MIXTURE (SPRING SEEDING), TYPE 7a MIXTURE (SUMMER SEEDING), OR TYPE 8 MIXTURE (FALL SEEDING), SEEDING AND FERTILIZING AND MULCHING SHALL BE IN ACCORDANCE WITH SECTION 180. AND 182, RESPECTIVELY, OF T-1 SPECS. - SCORE PROTE WALL X IF CONSTRUCT TO X LEGTS, - SCORE PROTE WALL X IF CONSTRUCT TO X LEGTS, - WIND ALL ALL X IF CONSTRUCT TO X IF CONTAIN - SCORE ALL X IF CONSTRUCTING TO X IF CONTAIN - SCORE ALL X IF CONSTRUCTING TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X IF CONTAINS TO X IF CONTAINS - SCORE ALL X IF CONTAINS TO X EARTH BACKFILL: EARTH BACKFILL SHALL BE PLACED AND THOROUGHLY COMPACTED PER SECTION 120. SURFACING: STABILIZED BASE SHALL BE PLACED IN ACCORDANCE WITH SECTION 225, ASPHALTIC CONCRETE SURFACE COURSE PER SECTION 345, AND BIT TACK GOAT PER SECTION. 302 OF THE T-1 SPECS. UTILITY POLES: THOSE UTILITY POLES (\$) THAT CONFLICT WITH THE CONSTRUCTION OF THE FLOOD PROTECTION WALL SHALL BE RELOCATED BY OTHERS. 7 | 4-12-73 promiliar | M2.P Kunnelerz | ~ [RIB1076.162.18] RE113550. WALL LOCATION Rev Jun in REV ECN NO. DATE DSGN DRWN CH PV ENGR INSP SUBM ISGH T.H. Ragers, Ja. HANN I.R. LEE HAND T.M. - WMMartin UPV WMMartin NSP JEF Willy spa NEER EB. Jasu NORTH TERRACE ROAD SCALE AS NOTED FLOOD PROTECTION WALL COMPANION DWG: 101-19H260-2 PLAN AND SECTIONS SOUTH CHICKAMAUGA CREEK PROJECT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN INSPECTED AND APPROVED FOR ISSUE R Bourrasse F KNOXVILLE 8-10-78 81 HR 101-19H260-18 10 3



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- NOTES:
   GENERAL NOTES: FOR GENERAL NOTES SEE DRAWING 101-19H260-1.
   CONCRETE: CONCRETE SHALL BE PLACED IN ACCORDANCE WITH THE GENERAL CONSTRUCTION SPECS NO. G-2. CONCRETE SHALL BE CLASS 300.75 AFW. ALL EXPOSED CORNERS SHALL BE CLAMPERED 3/4 INCHES.
   REINFORCEMENT: BARS SHALL CONFORM TO LATEST ASTM SPECS FOR HIGH STRENGTH BARS, DESIGNATION A615-60. ALL DIMENSIONS RELATIVE TO REINFORCED STEEL ARE TO CENTER OF BARS, EXCEPT WHERE OTHER. WISE NOTED.
   FORNWORK: ALL FORMWORK SHALL BE IN ACCORDANCE WITH THE GENERAL CONSTRUCTION SPECIFICATION NO. G-8. BOTH SIDES OF THE FLOOD PROTECTION WALL SHALL RECEIVE A SMOOTH FORM FINISH AS DEFINED IN SECT 1.4.

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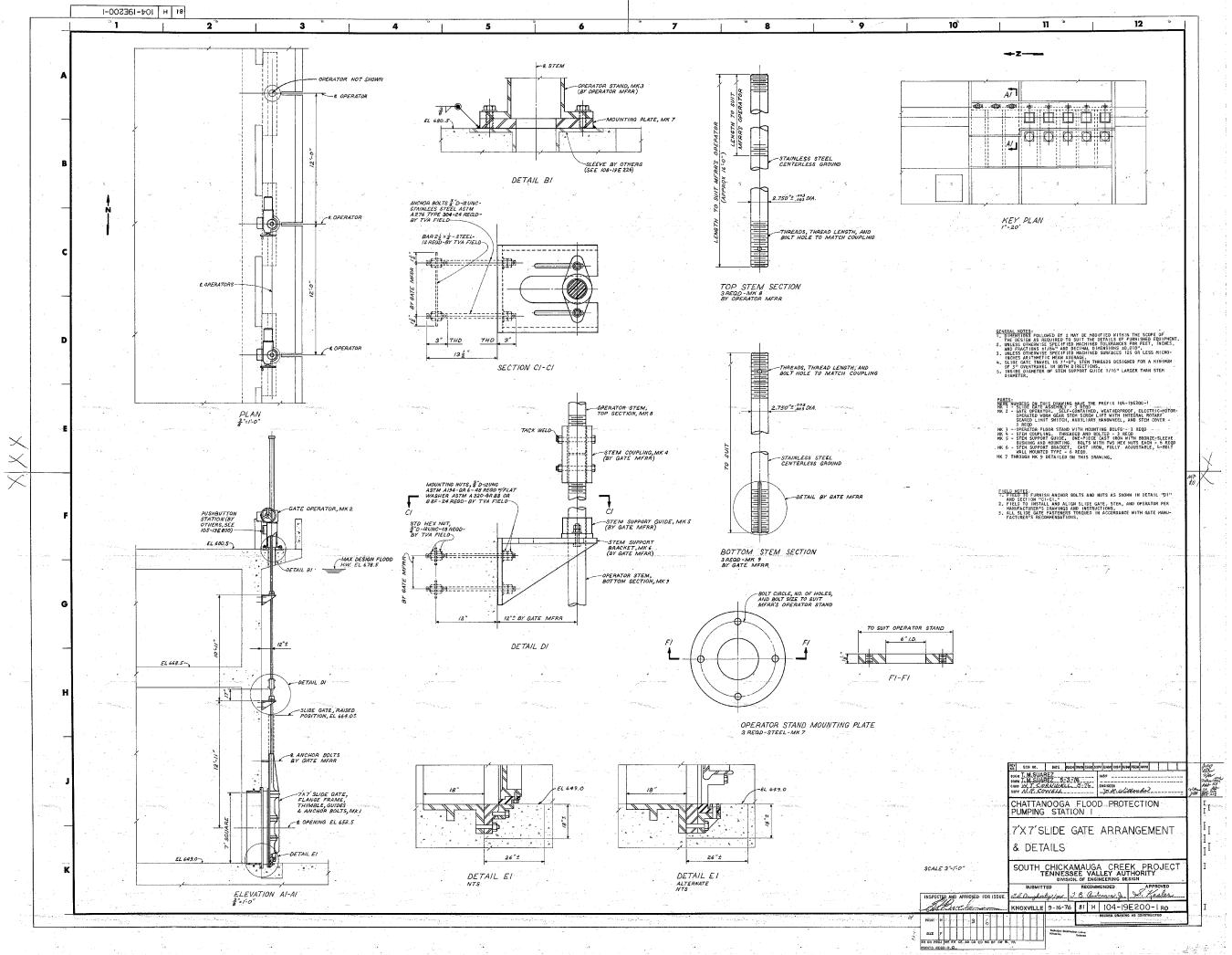
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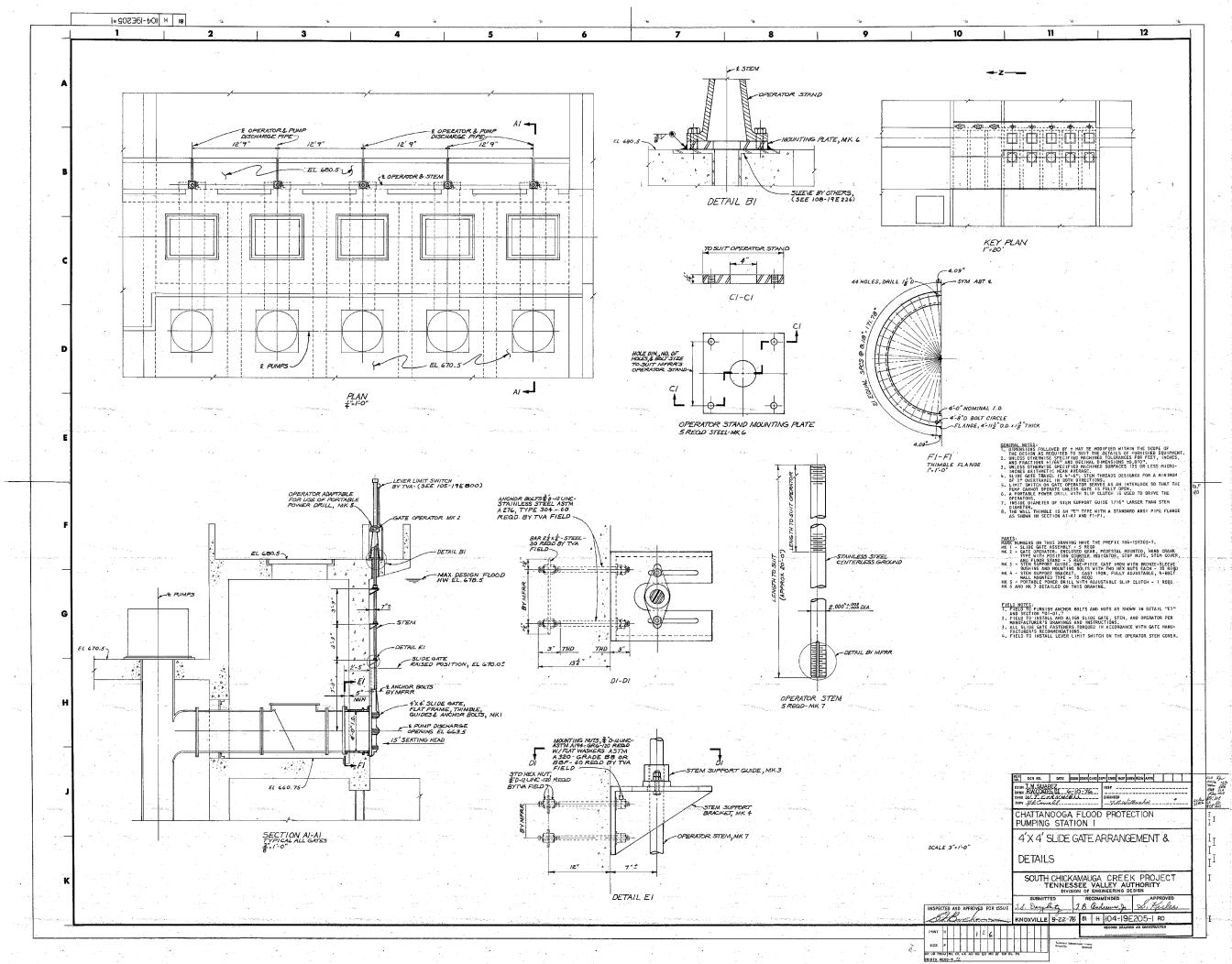
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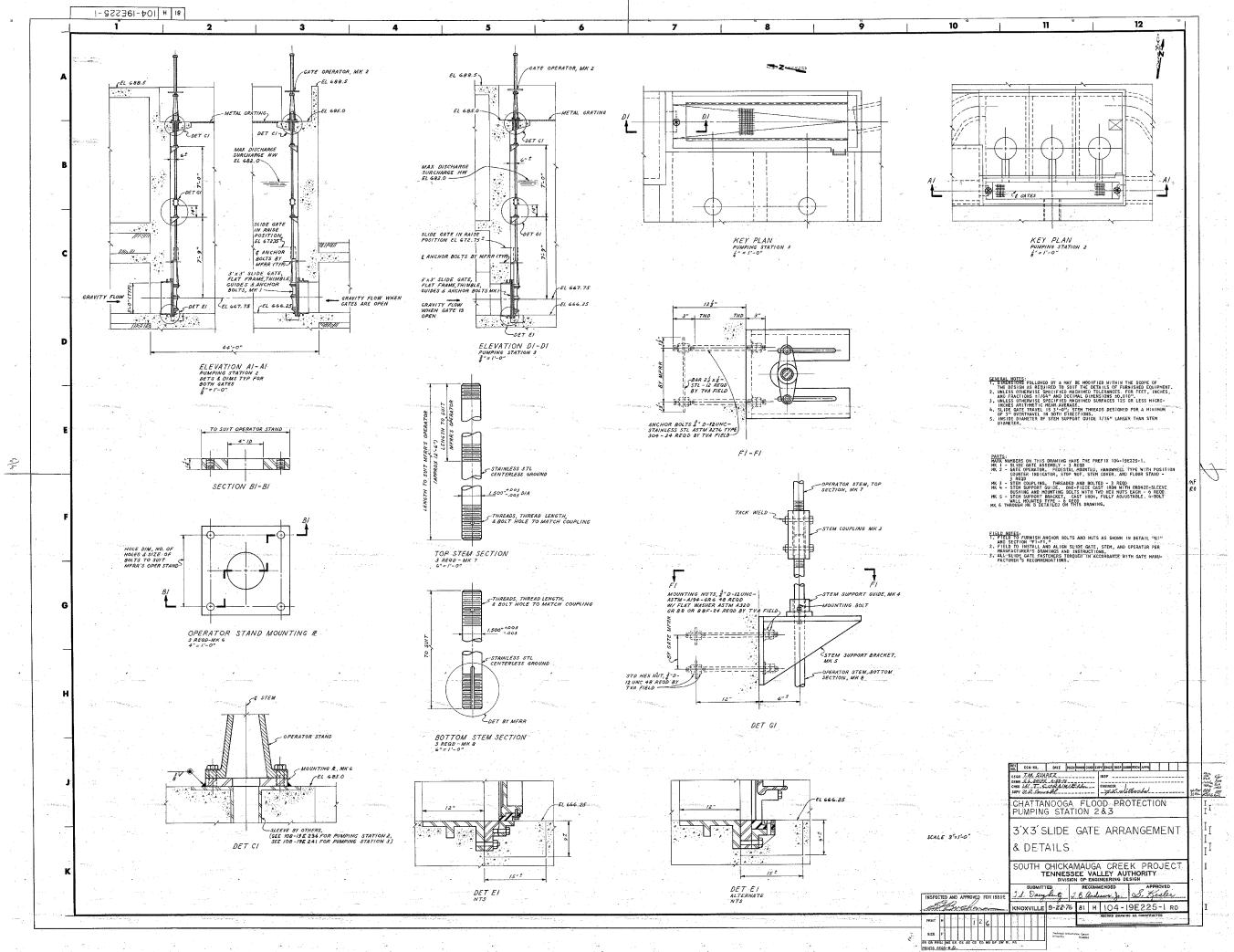
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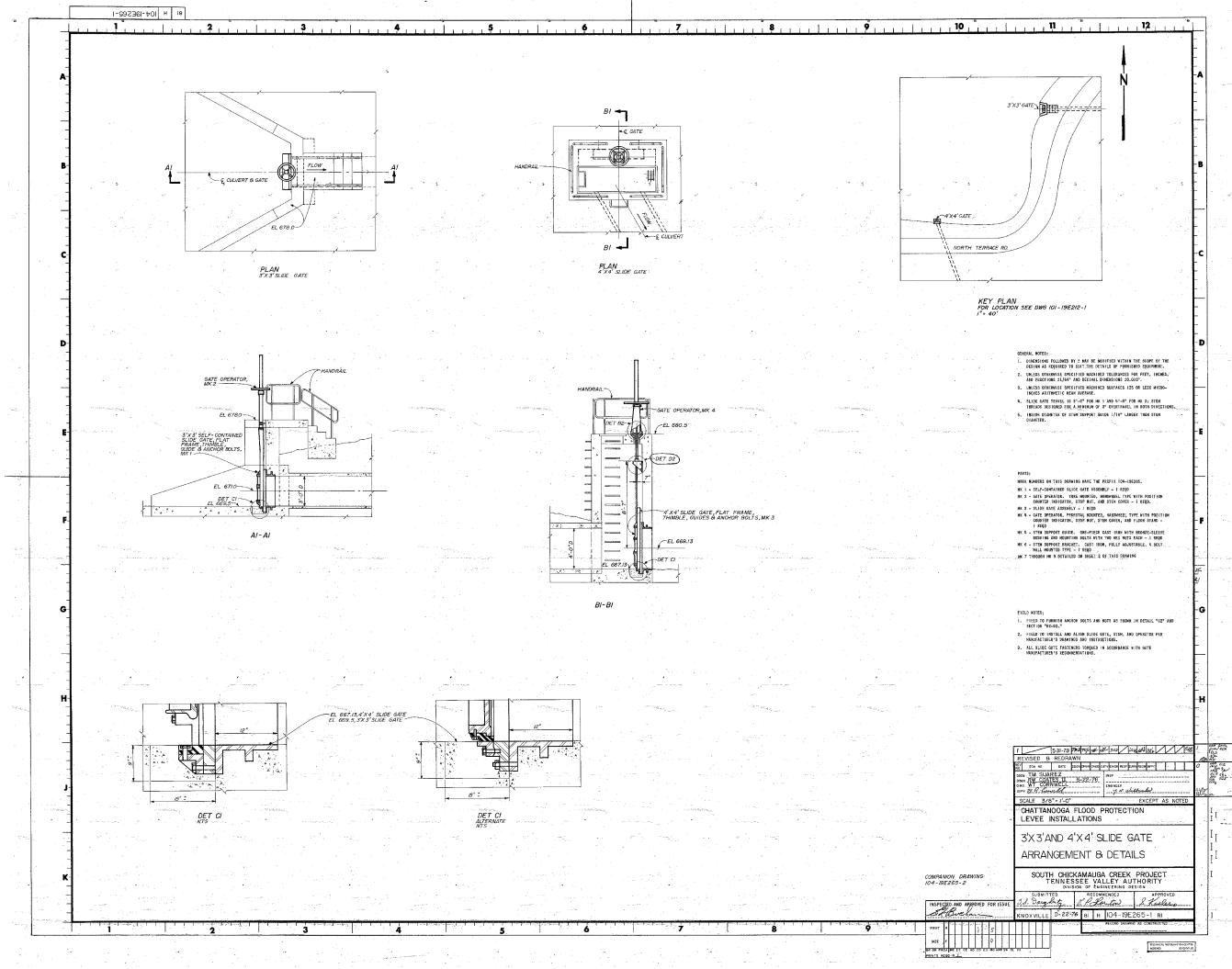
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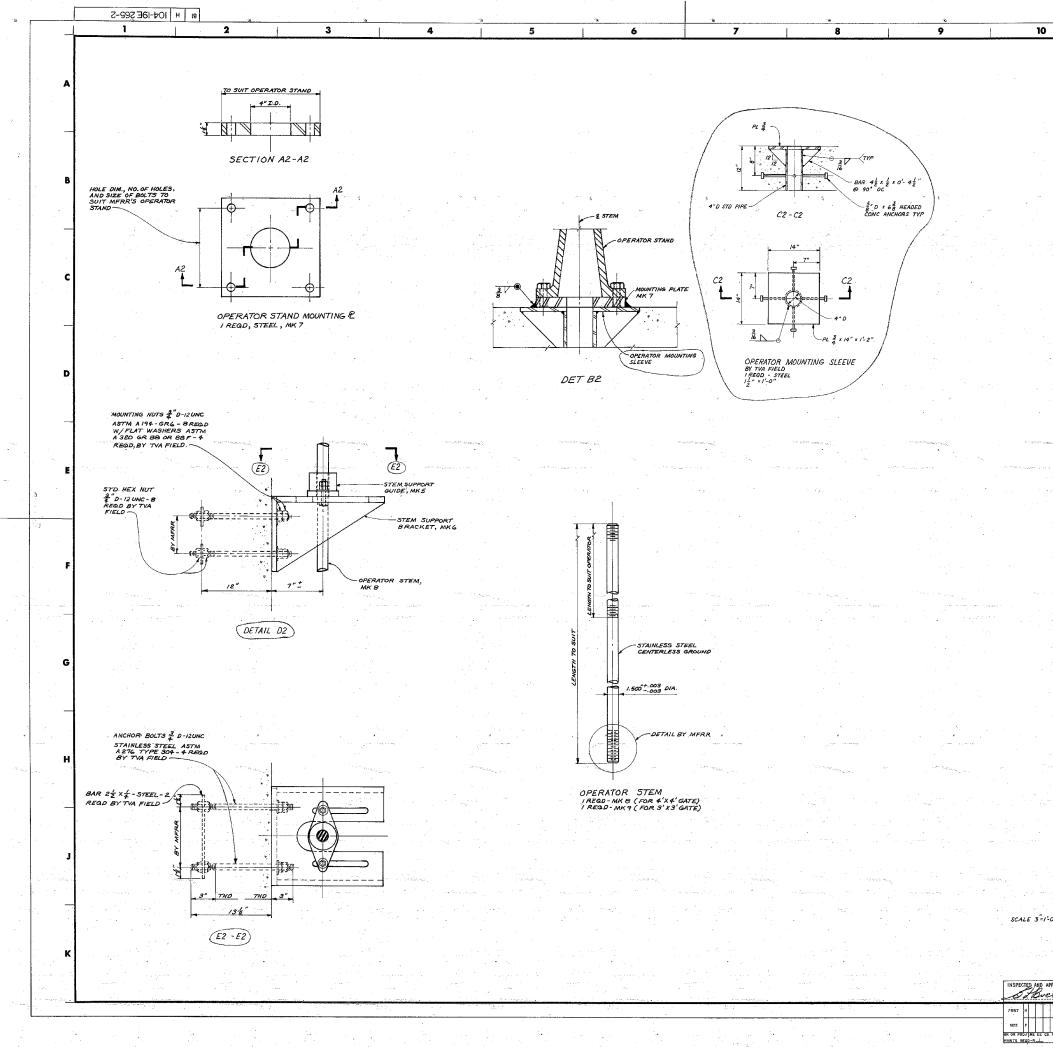
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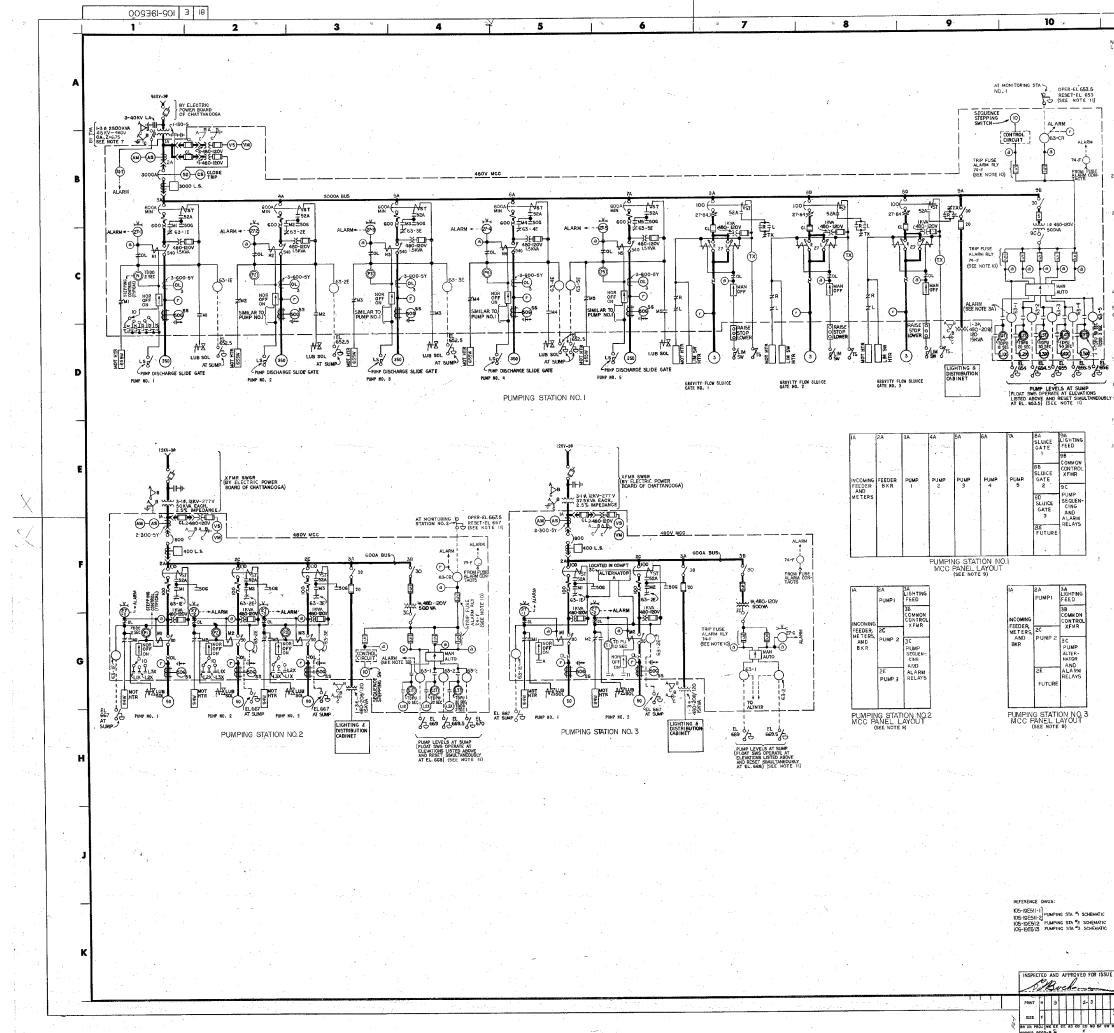








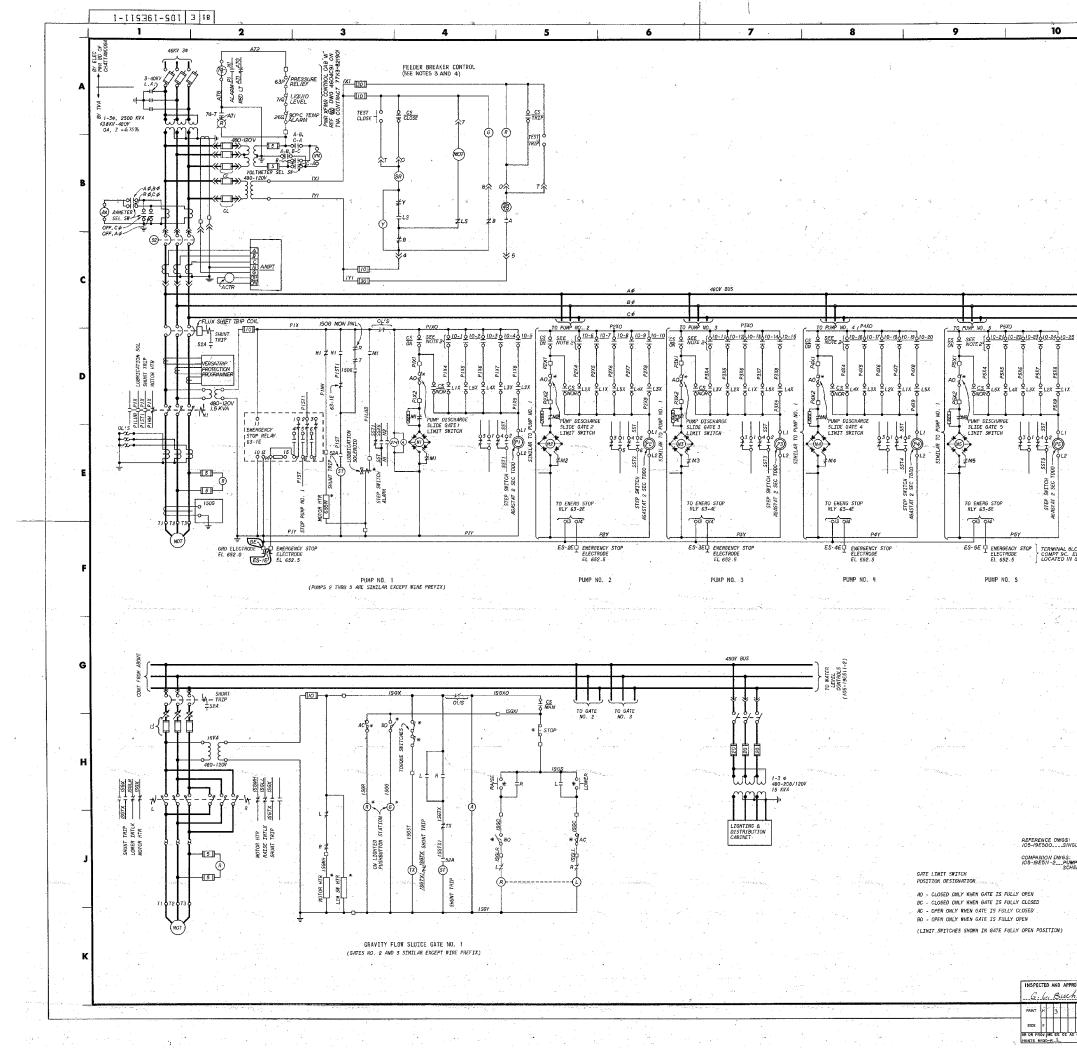
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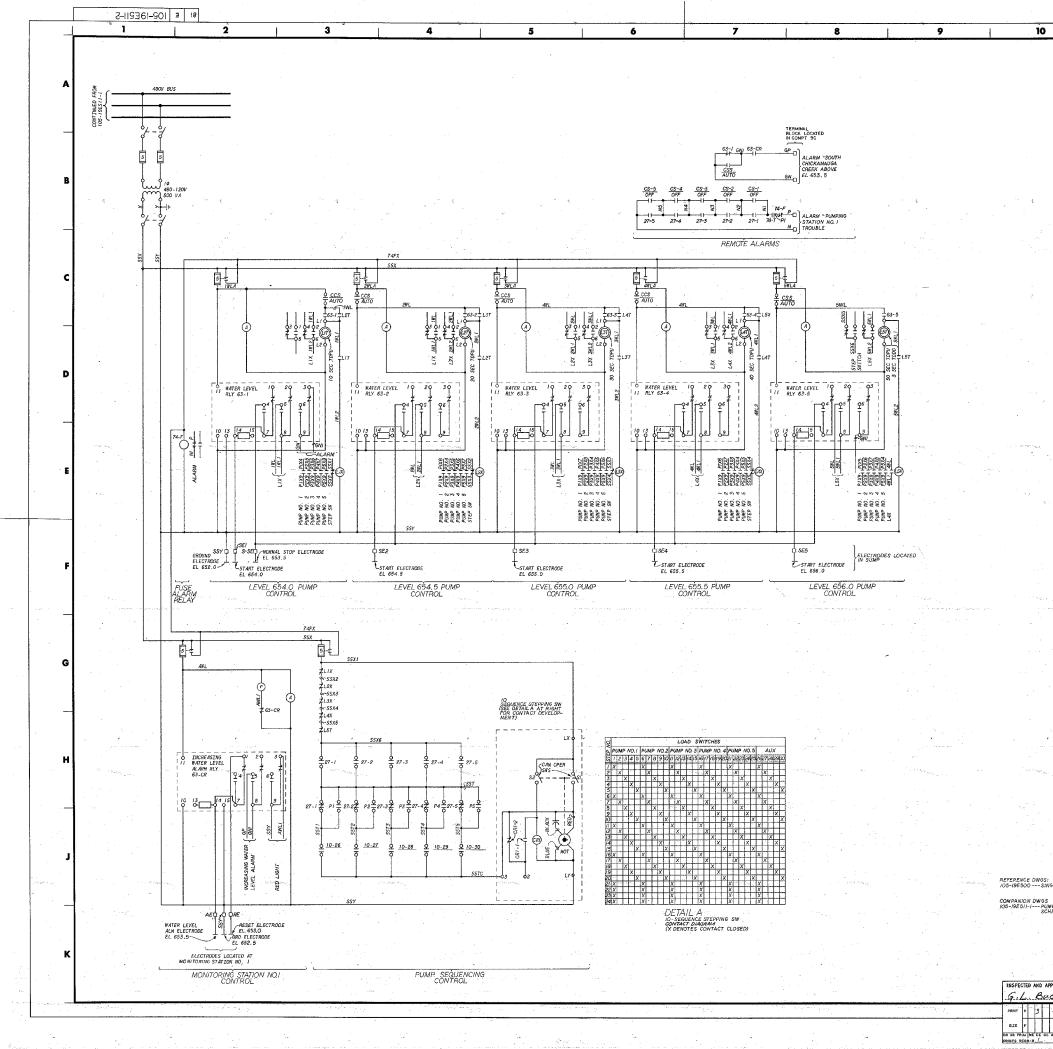
12 11 NOTES: L WHEN THE COMMON PUMP CONTROL SWITCH ELMPS ANT THAT ANHYNG STATION VILL BEDTARTED WITH RISING WATE LEFEL AS HEADBED BY LEVEL SENDORS LOCATED IA THE SWHE AT EACH STATION - OLE STARDE FOR EACH PUMP. AT STATION NO. 1, THESE SENDORS ARE ST TO DEWAIT AT EL GSY INHOUSE EL 655 AT 0.5' INCER-HENTS. AT STATION NO. 2, THE SENSORS ARE SET TO DEWAIT AT EL 659, 659.5, AND STO. AT PMPING STATION NO. 3, THE SENSORS ARE SET TO DEFUNT AT EL 650 AND EL GOS. ALL PUMPE IN OTHERATION AT STATIONS 1, 2, AND S WILL SHIT OF SHULTANEONLY AT EL GSS, EL 668, AND ETTOPING STATION FOR STATION FOR STATION TO PERION AT STATIONS 1, 2, AND S WILL SHIT OF SHULTANEONLY AT EL GSS, EL 668, AND ETTOPING STATION SHULL ALTERNATION COMMING SUCH THAT THE SENSORS OFEN-TATION STILL LALTERNAT THE PUMPES SUCH THAT THE SENSORS OFEN-STATIONS WILL ALTERNATION SUCH PUMPING SUCH THE HEADS SUCH TO ASC BETTHER STATION ANT THE PUMPING SUCH THAT THE SENSORS OFEN-THE PRECEDING DUMPING SYLLP AREATT THE DEVALY OF ID SEC BETTHER STATION ANT THE PUMPING SUCH THAT THE SENSORS OFEN-STATIONS WILL ALTERNATI SUCH PUMPING SUCH THAT THE SENSORS OFEN STATIONS WILL ALTERNATION SUCH PUMPING SUCH THAT THE SENSORS ARE STATIONS DIA THE PRECEDING DUMPING SYLLP AREATT THE DEVALY OF ID SEC BETTHER STATION ANT THE PUMPING SUCH THAT THE SENSORS ARE STATIONS DIA THE PRECEDING DUMPING SYLLP AREATT THE DEVALY OF ID SEC BETTHER STATION ANT THE PUMPING SUCH THAT THE SENSORS OFEN ON THE PRECERSING PARAMENT OVELS. SUPFICIENT THE DELAY OF I SERVICES STATING NO. 1, THE PUMPS ARE LECETATIONALLY INTERCORED TA AT STATION NO. 1, THE PUMPS ARE LECETATIONALLY INTERCORED TO OPERATING AT THE INDIVIDUAL PUMPS CARGE SALE OPERATING AT LEGS2,5667 AND 667 RESPECTIVELY, A BACKUP LEVEL SWITCH WILL TRUE THE INDIVIDUAL PUMP BREAKER. ALARM † 74-F 🖒 PUMP DECARCH. WHEN MONITORNE STATIONS KOJ OR NO.2 SENSE CREEK LEVEL ABOVE EL663.50R EL667.5 RESPECTIVELY, THE APPROPRIATE GRANTY FLOW SLUICE GATES ARE TO BE CLOSED AND THE AFFECTED PUMPINS STATIONS REACED IN AUTOMATIC CONTROL THROUGH THE COMMON CONTROL SWITCH LOCATED AT **SEXA** THROUGH THE EACH STATIO REMOTE ALARMS ARE GROUPED AS FOLLOWS . A. CREEK LEVEL ABOVE ELGEGE BY SENSORS AT MONITORING S OR SUMP LEVEL AT PUMPING STATION NO. I ABOVE EL 654 EL AT POMPING STATION NO. TABUYE ELSOF NUM PUMP CONTROL SWITCH IN MANUAL POSITION. MOVE EL6625 BY SENSORS AT MONITORING STATION NO.2 EL AT PUMPING STATION NO.2 ABOVE EL 669 WITH ABNORMAL C DETECTED B' TRANSFORM FOR ALL CIRCUITS TRANS' UC TRUTING MY DEVICE 27 [THERMAL OVERLOAD THROUT, CONTROL TRANSFORMER FUSE BLOWN, OFEN BREAKER OR LOSS OF VOLTAGE FOR ALL PLAYS) OR BLOWN TURE IN THE PLAYS REQUERING CONTROL ORGUTS ADDITIONALLY STATION<sup>7</sup> (ARNORMAL INCLUDES THE MAIN TRANSFORMER JAMINS FOR HANGE THROUTEN LUDIO LEVEL, AND DISCONNECT SWITCHES ON THE AUXILIARY BOARD ARE HEAVY DUTY TYPE FARTED SOOV AND CARABLE OF INTERPRITING NOT LESS THAN 18 TIMES THEIR RATED CURRENT. L 480V FUSES TO BE TIME DELAY CLASS J ALL 480V FUSES TO BE TIME DELAY CLASS J. ALL BREAKEDS ARE 3-POLE RATED GOOV INTERRUPTING RATING: A. AT STATION #1 DRAWGUT - 58,000A NMS STM AT 480V - STATUSTIC - 50,000A NMS STM AT 480V - STATUSTIC - 50,000A NMS STM AT 480V DRAWGUT - 38 400A THE STM AT 480V MOLEC GARGETS IS TO BE ROVIDED WITH A NOLDAD TAR THE TRANSFORMER IS TO BE ROVIDED WITH A NOLDAD TAR THE TRANSFORMER IS TO BE ROVIDED WITH A NOLDAD TAR FORMER LET AND FE INTERFORM TO ATTION OF FORCE ATING MUST-NOT BE INCREASED B THE ADDITION OF FORCED \_ **%** OOLING. PRIMARY GROUND CURRENT. VENDOR TO ESTABLISH FRONT VIEW AND COMPARTMENT ASSIGNMENTS PASED ON PHYSICAL REQUIREMENTS. THE A LEMON TO CANADAN THE REQUIREMENTS. THE PANELS DO NOT HAVE TO BE FLUSH MOUNTED. TURES AME RATED AT 5 AMENES AND ARE SIGNAL ACTUATING TYPE, RATED AT 125 VAC SUSS TYPE FNA, OR EQUAL. HEES FUSES ARE USED IN CONJUNCTION WITH SIGNAL FUSE ELOCK, 4 POLE, BUSS TYPE 3839 OR EQUAL, FLOAT SWITCHES SHOWN ARE SYMDOLIC OF THE FUNCTIO PERFORMED AND DO NOT NECESSARILY REPRESENT EQUIPME STALLED. UREMENTS, THE PANELS 2 7-10-73 TTE JT 66 TTE Rad MA MALAN HAM AN QUEL ELS 1-31-77 TJLWSS HE 201441 PS2 DW 154 1 1 568 20 Elso Con This ECN NO. DATE BSG S SHARPE raded HKO T. J. LIPTAL UPV BL. BOGGS CHATTANOOGA FLOOD PROTECTION PUMPING STATION NOS. 1,2,3 WIRING DIAGRAMS AC AUXILIARY POWER SINGLE LINE SOUTH CHICKAMAUGA CREEK PROJECT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN Robert 7 Heurt R. H. Herndon and E. Hall KNOXVILLE 8-18-76 81 E 105- 19E500 R2 
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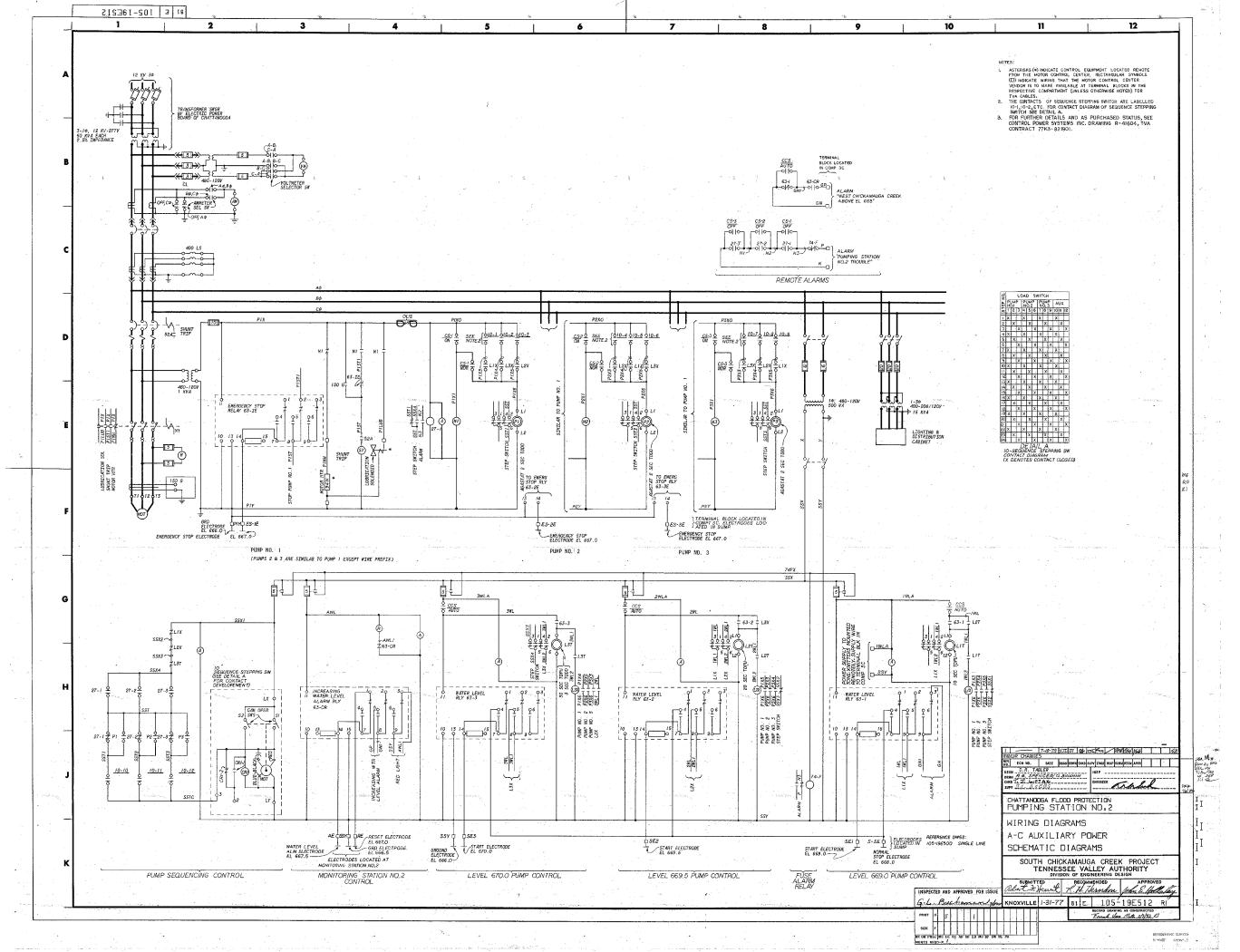
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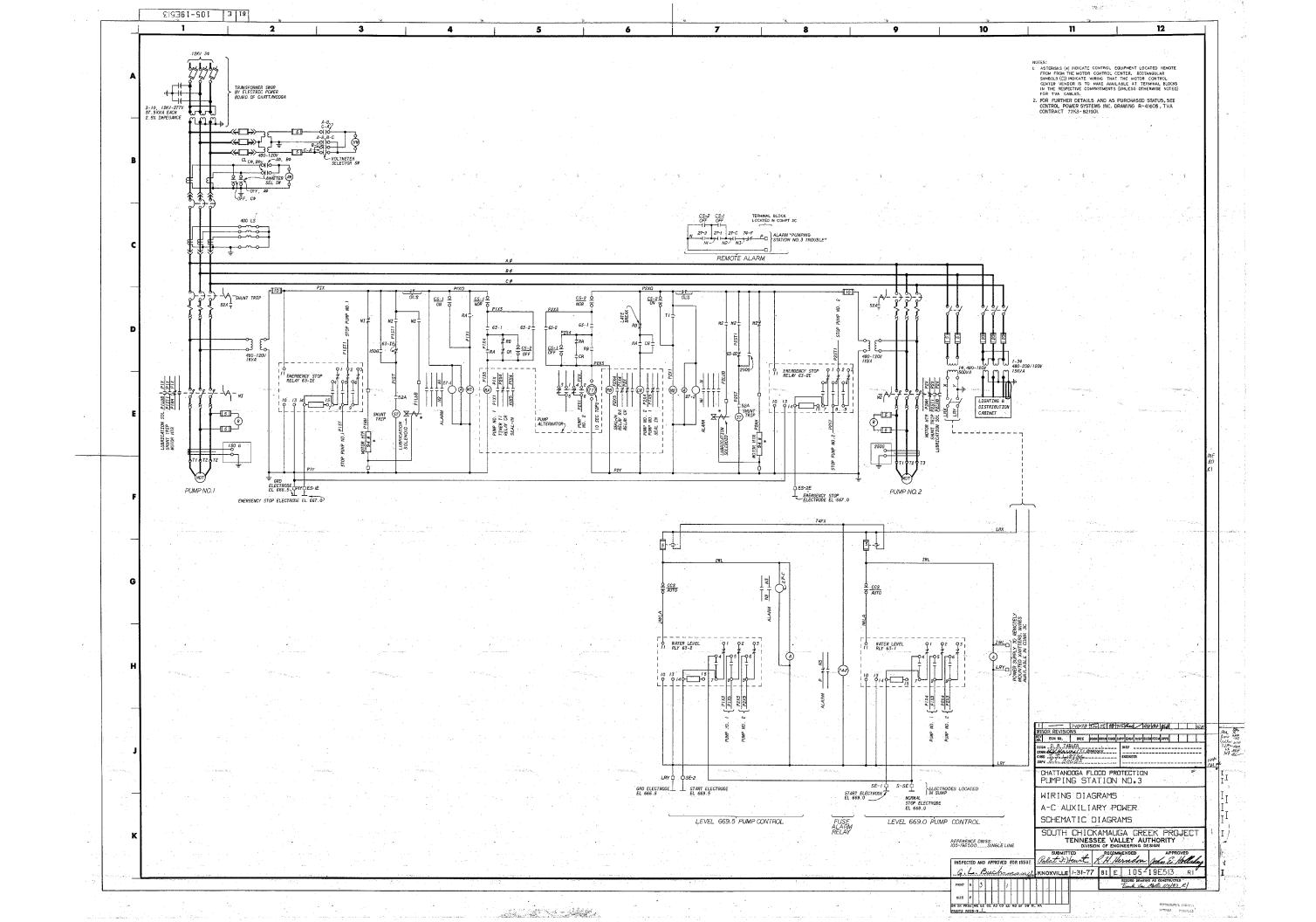


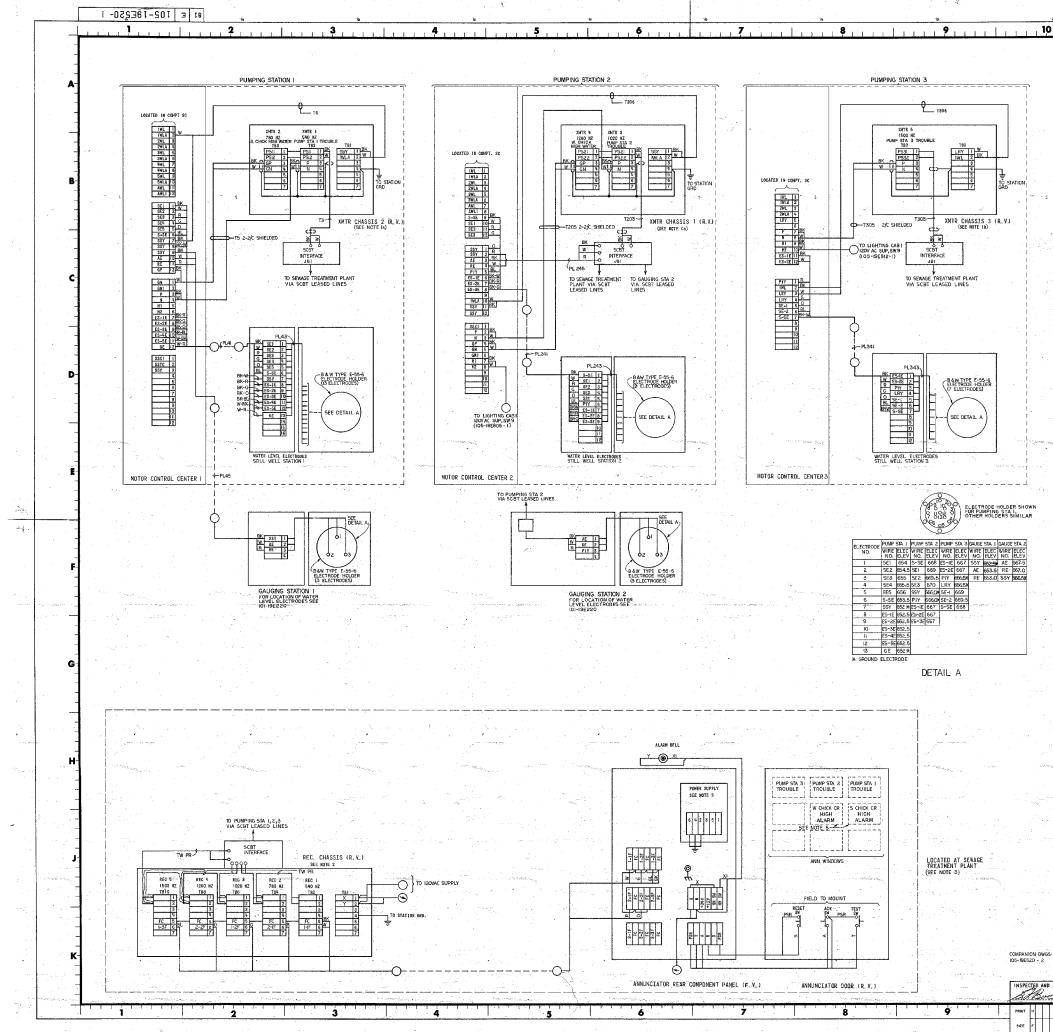
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	NOTES 1. ASTERISKS (#) INDICATE CONTROL EQUIPMENT LOCATED REMOTE FROM THE MOTOR CONTROL CENTER, RECTANGULAR SYMBOLS (C)		
	FROM THE MOTOR CONTROL CENTER, RECTANGULAR SYMBOLS (D) INDICATE WIRING THAT THE MOTOR CONTROL CENTER VENDOR IS TO MAKE AVAILABLE AT TERMINAL BLOCKS IN THE RESPECTIVE COMPARTMENTS (UNLESS OTHERWISE NOTED) FOR TVA CABLES.		
	<ol> <li>THE CONTACTS OF SEQUENCE STEPPING SWITCH ARE LABELLED 10-1, 10-2 ETC. FOR CONTACT DIAGRAM OF SEQUENCE STEPPING</li> </ol>		
	SWITCH SEE DETAIL A ON DWG IOS-IDESII-2. 3. 'O' INDICATES CONTACT MADE ONLY IN THE "OPERATING" POSITION OF THE BREAKER. 4. 'T' INDICATES CONTACT MADE ONLY IN THE "TEST" POSITION OF		
	<ol> <li>T'INDICATES CONTACT MADE ONLY IN THE TEST POSITION OF THE BREAKER</li> <li>FOR FURTHER DETAILS AND AS PURCHASED STATUS, SEE CONTROL POWER SYSTEMS INC. DRAWING R-51999, TVA CONTROL 77K3-821010</li> </ol>		
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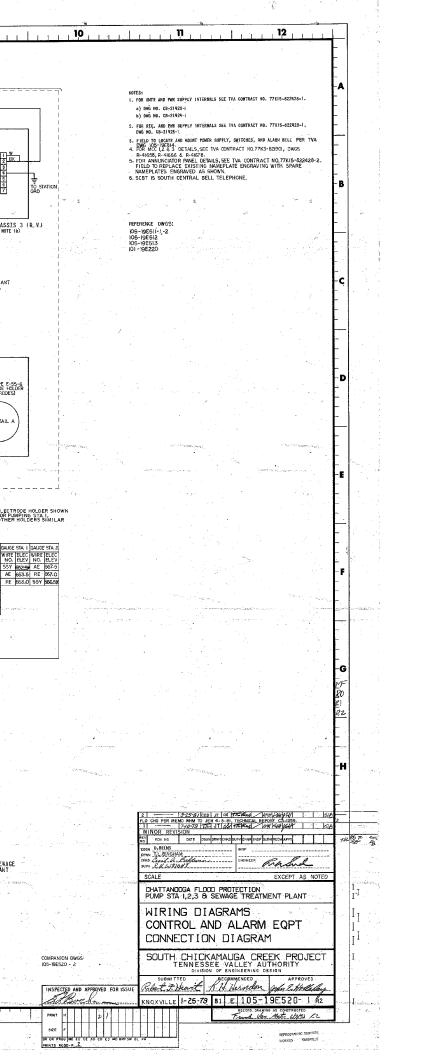


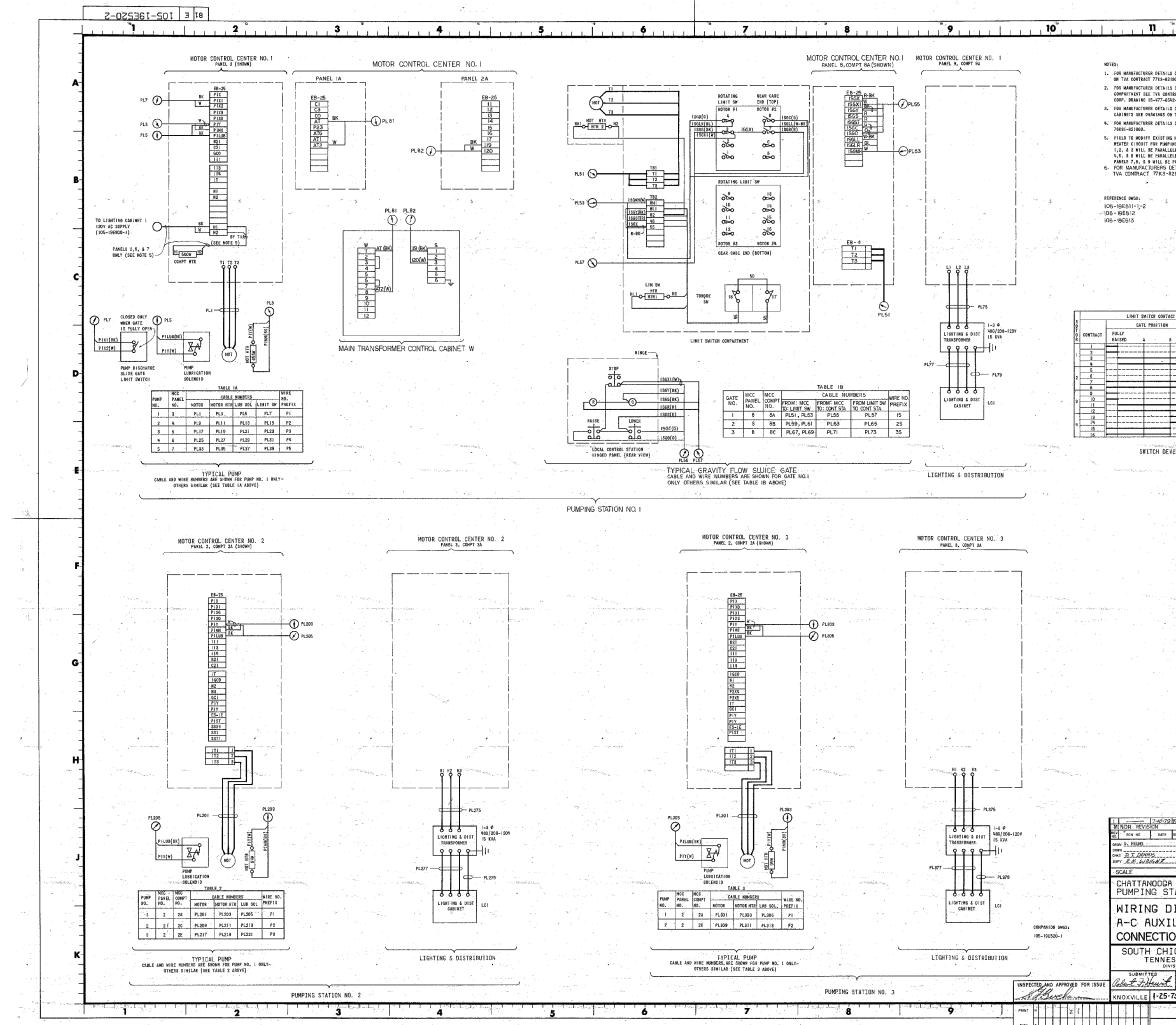
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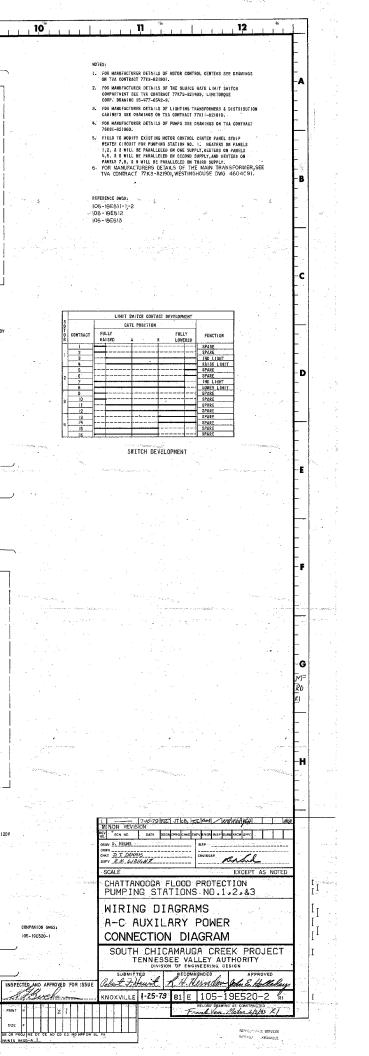


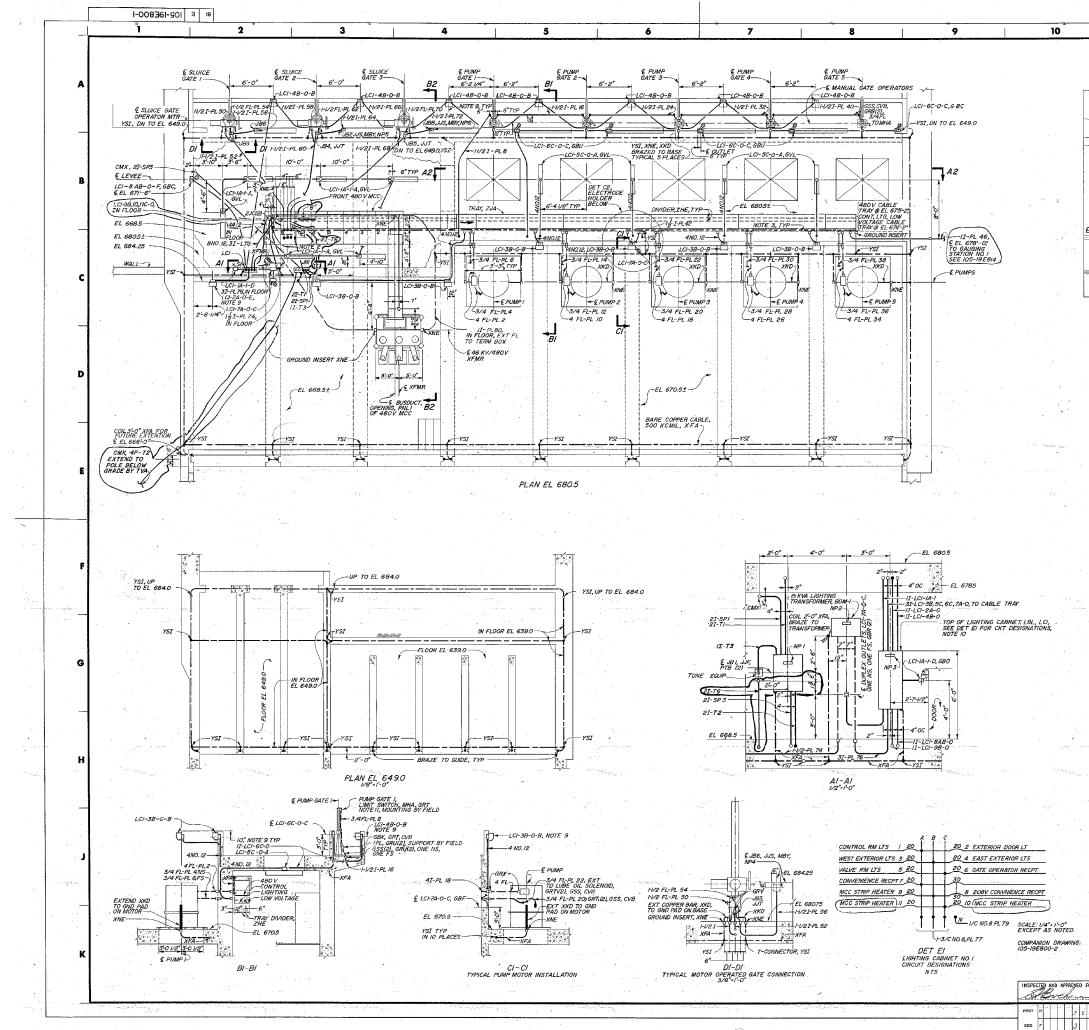




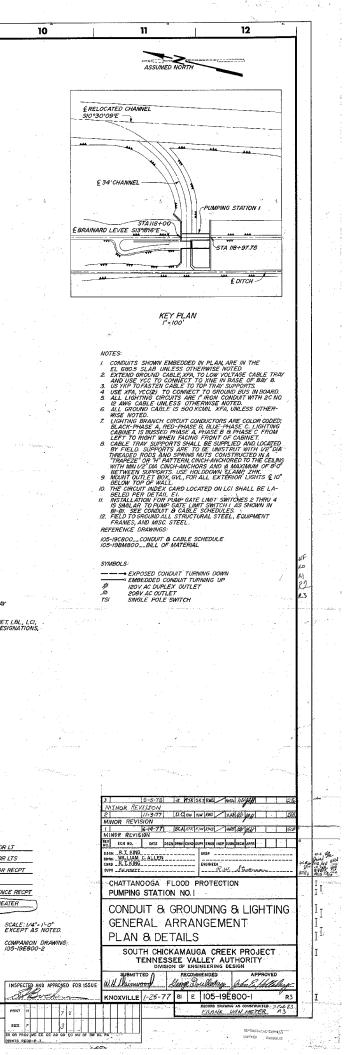


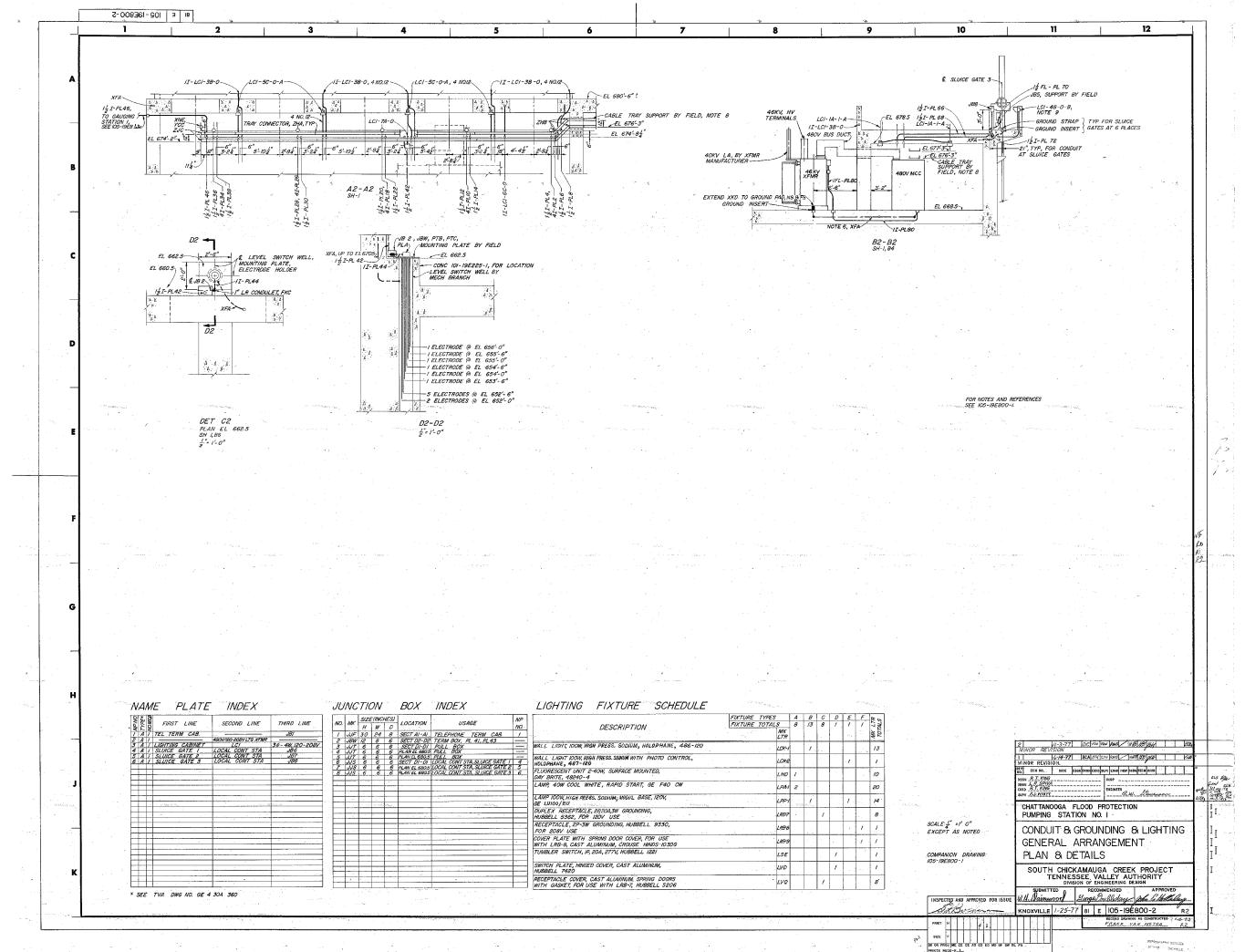




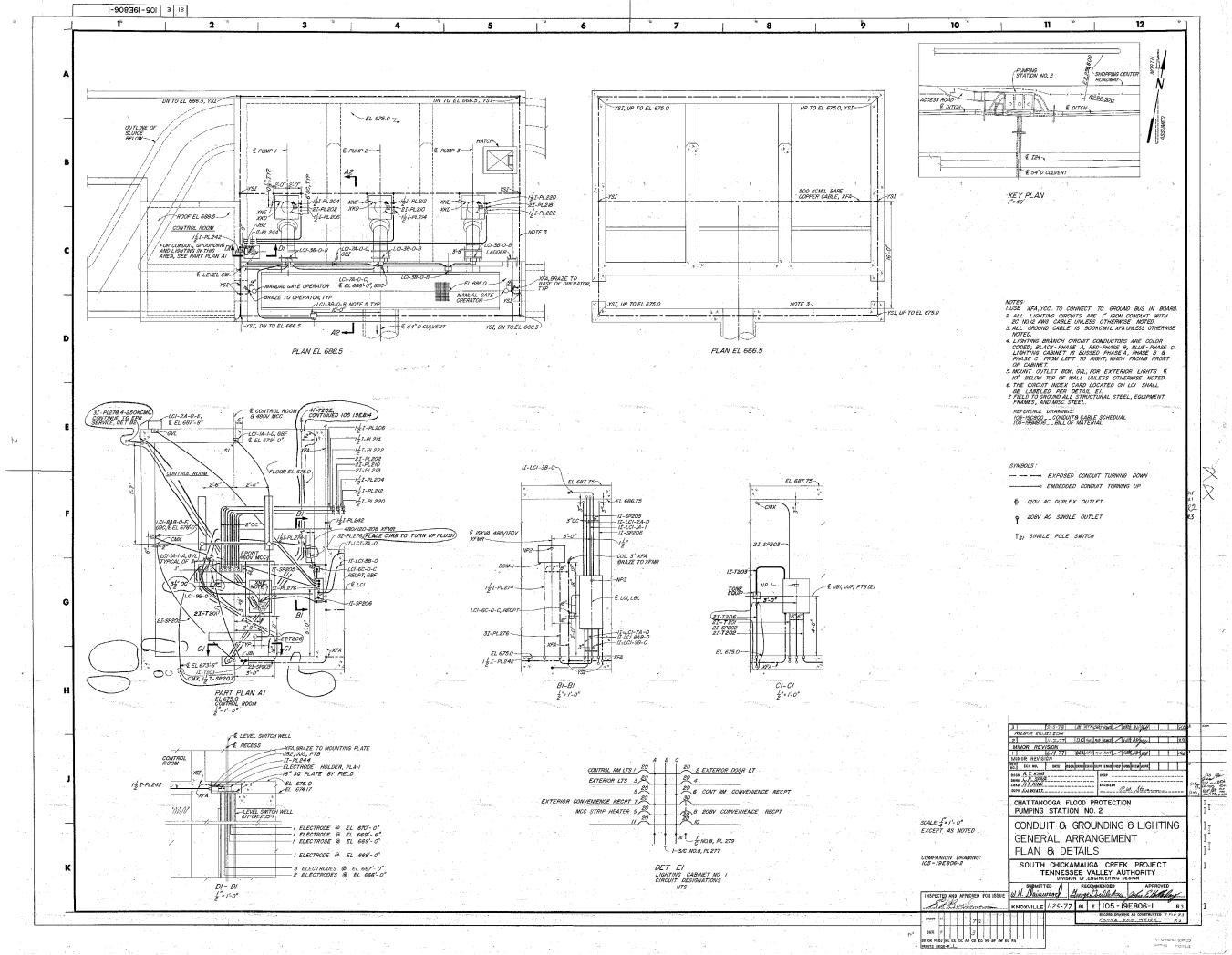


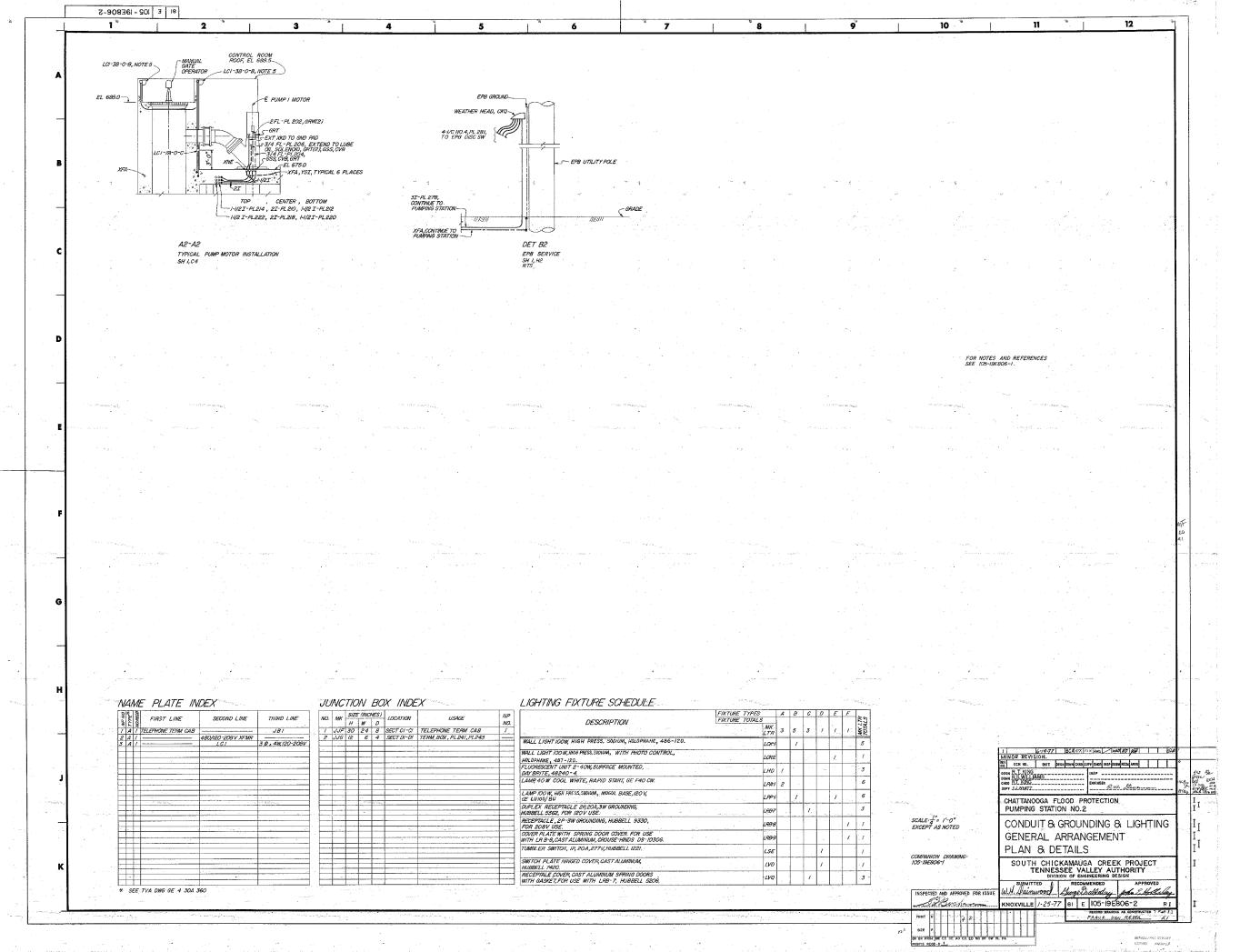
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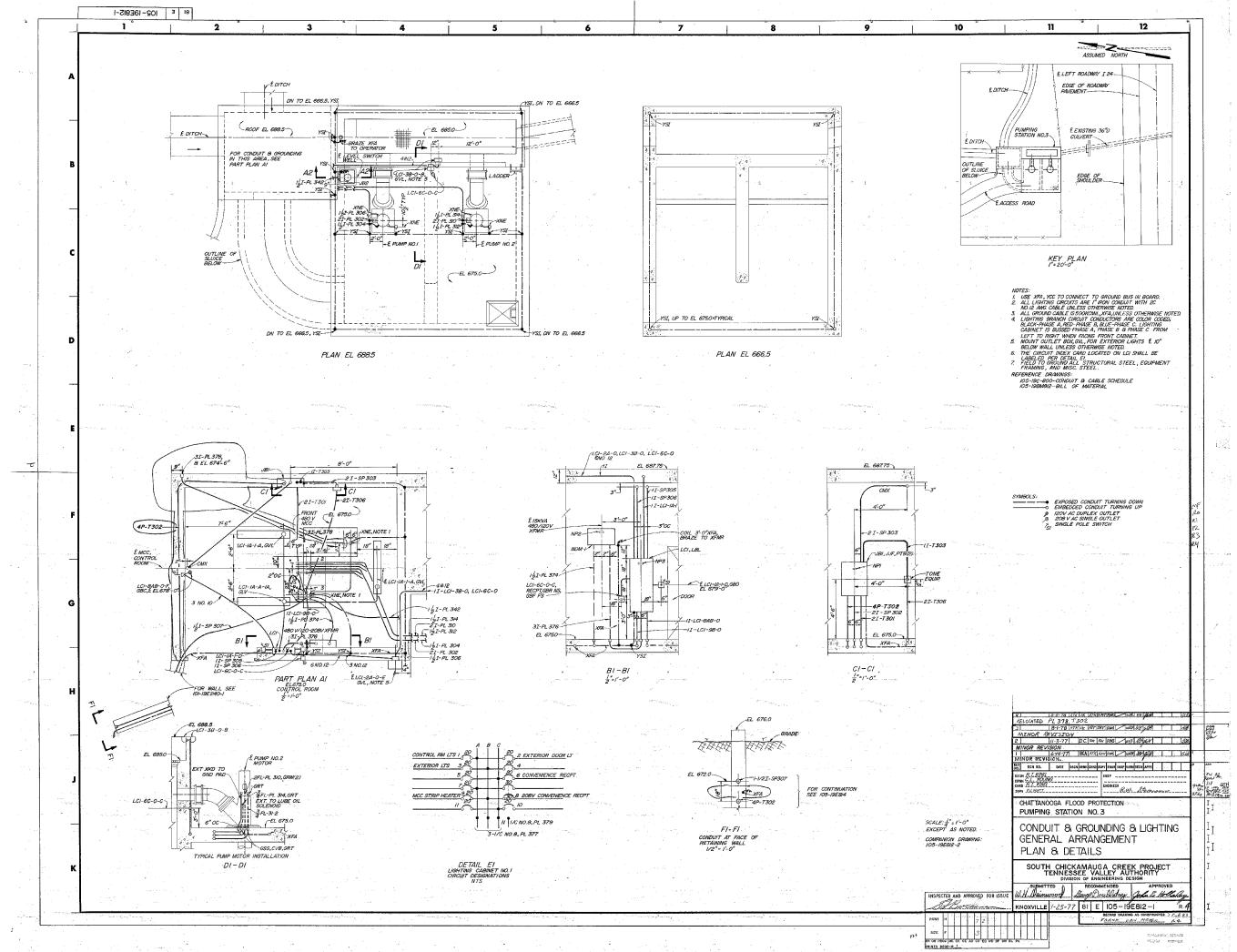


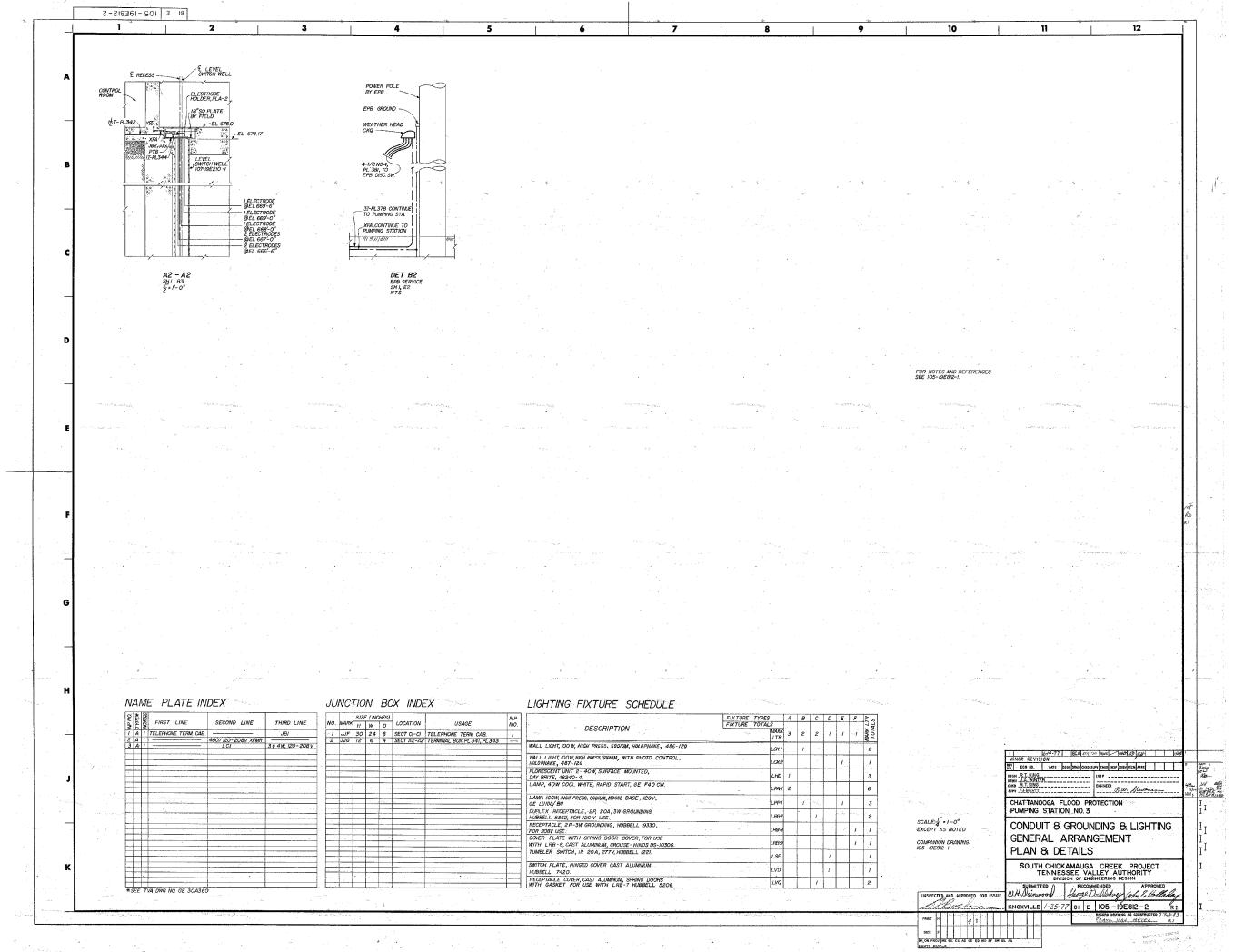


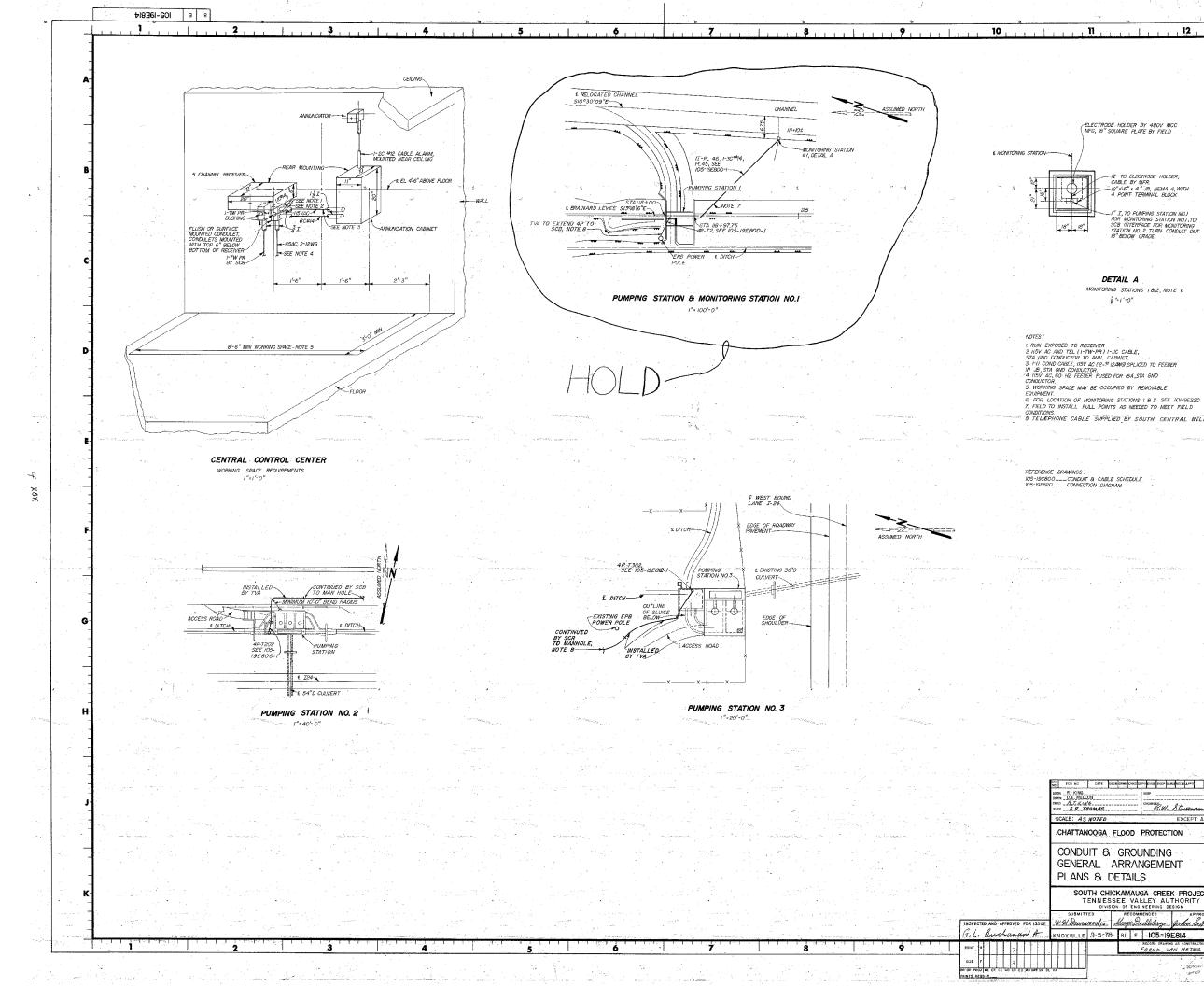
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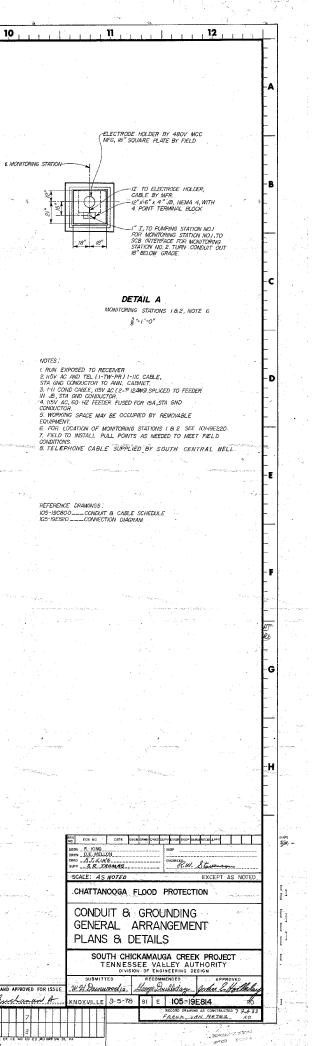


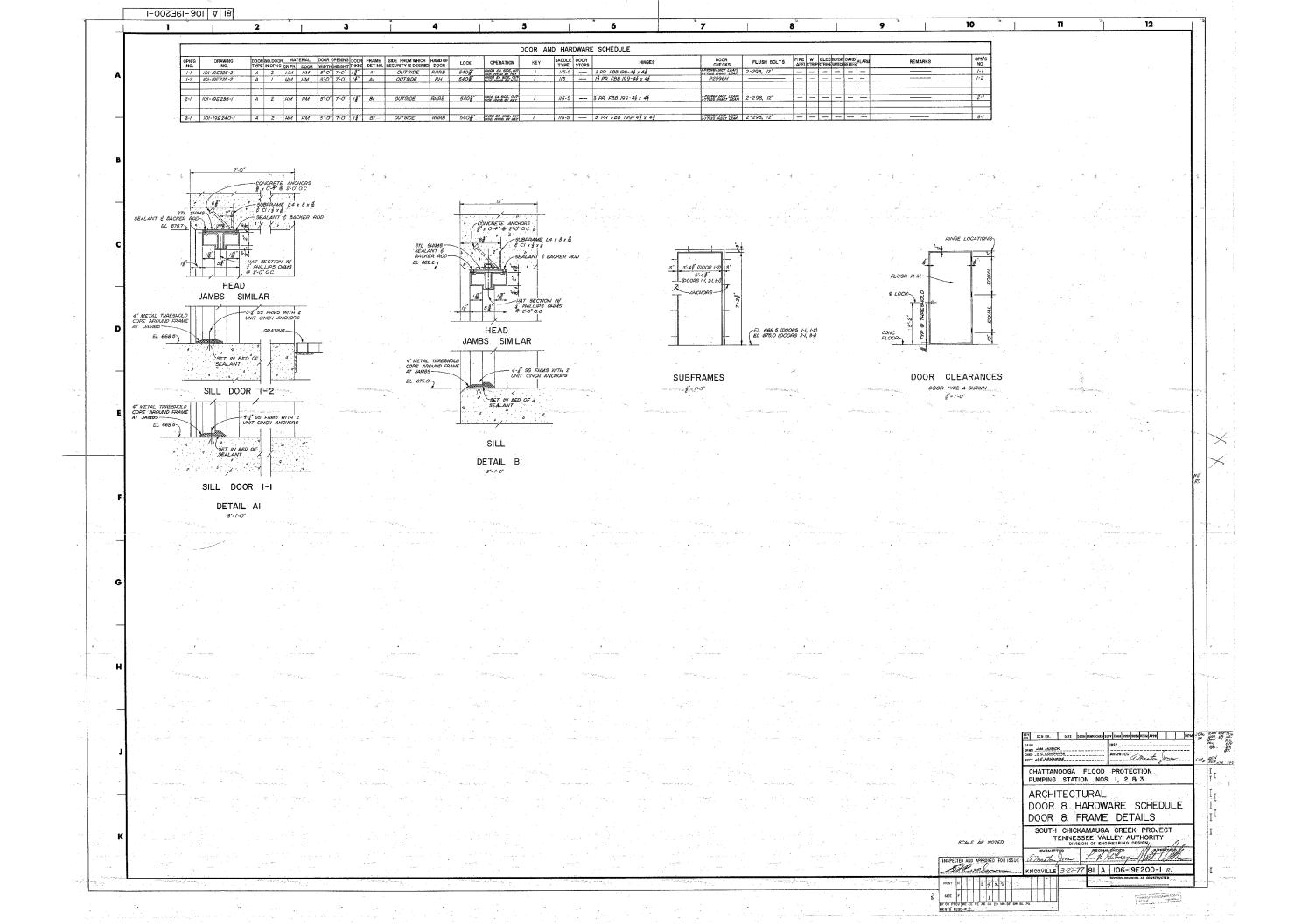


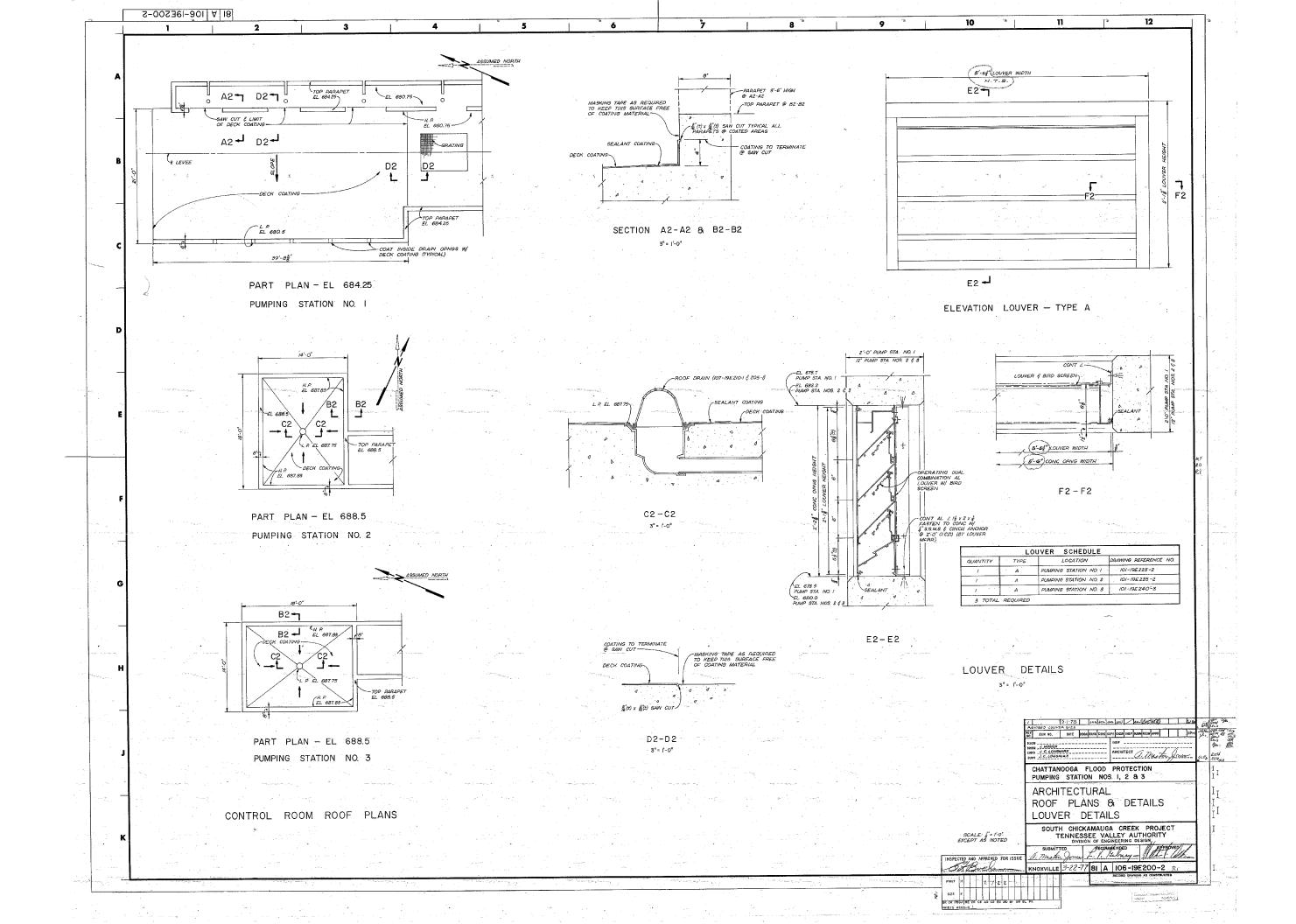


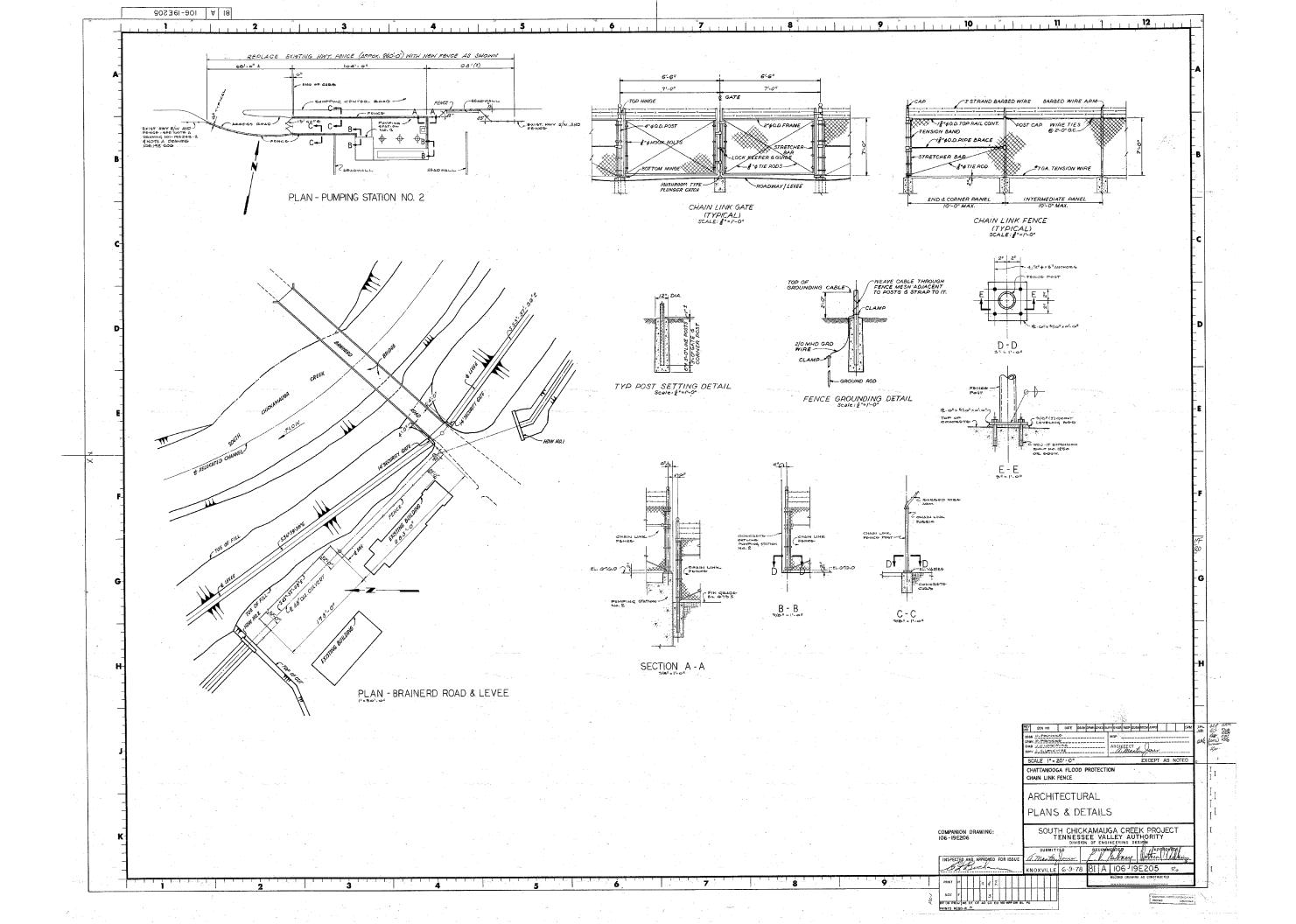


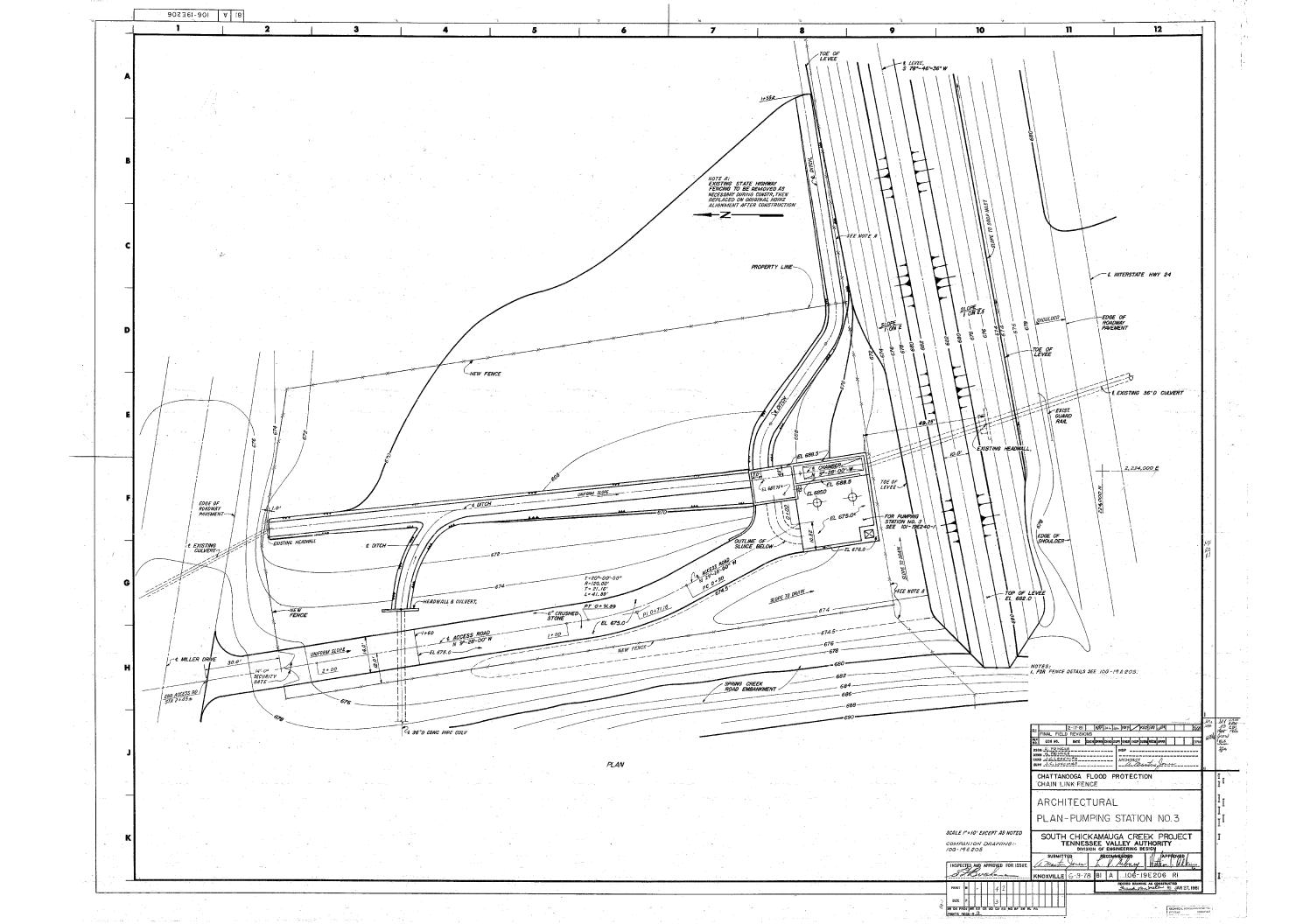


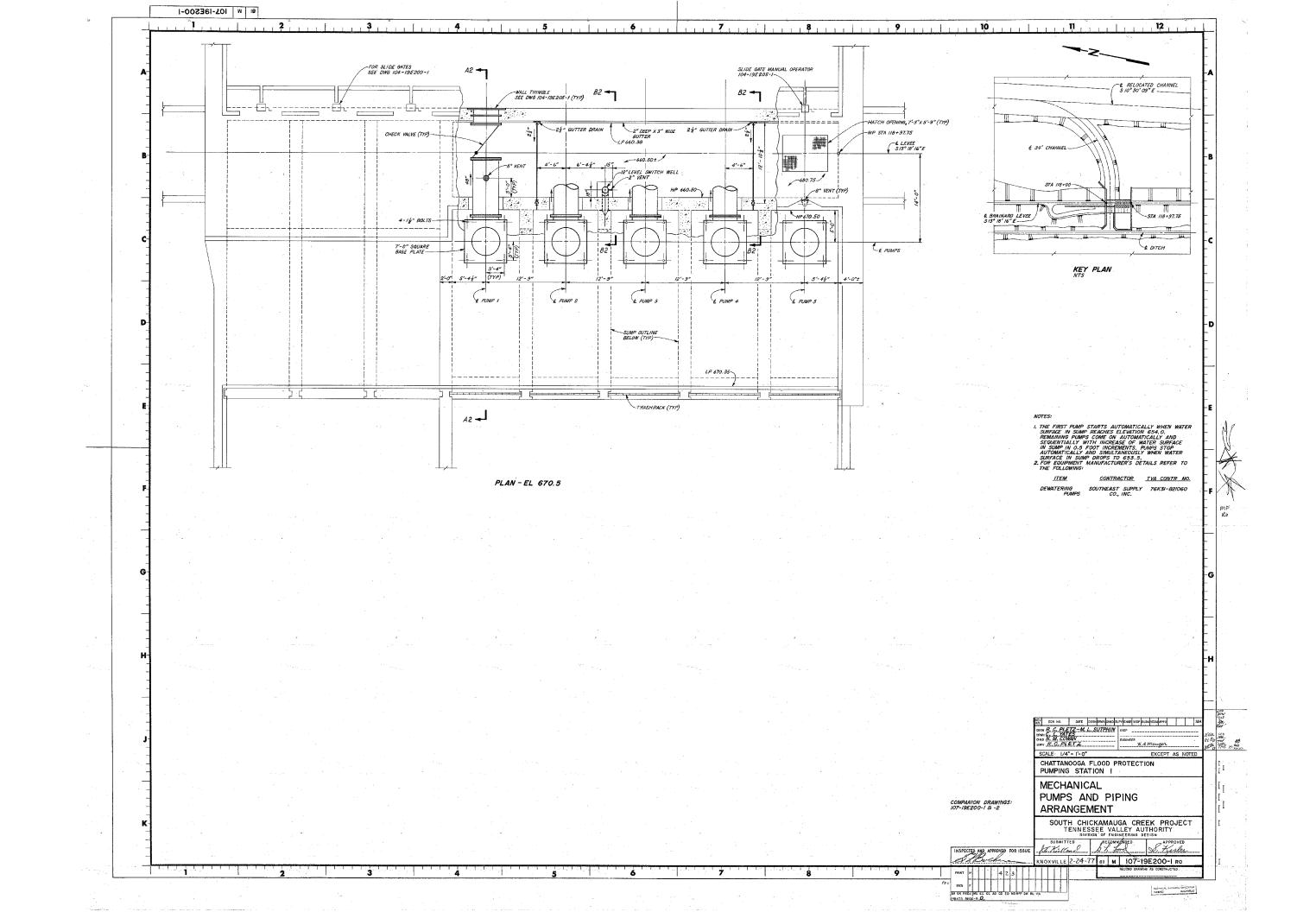


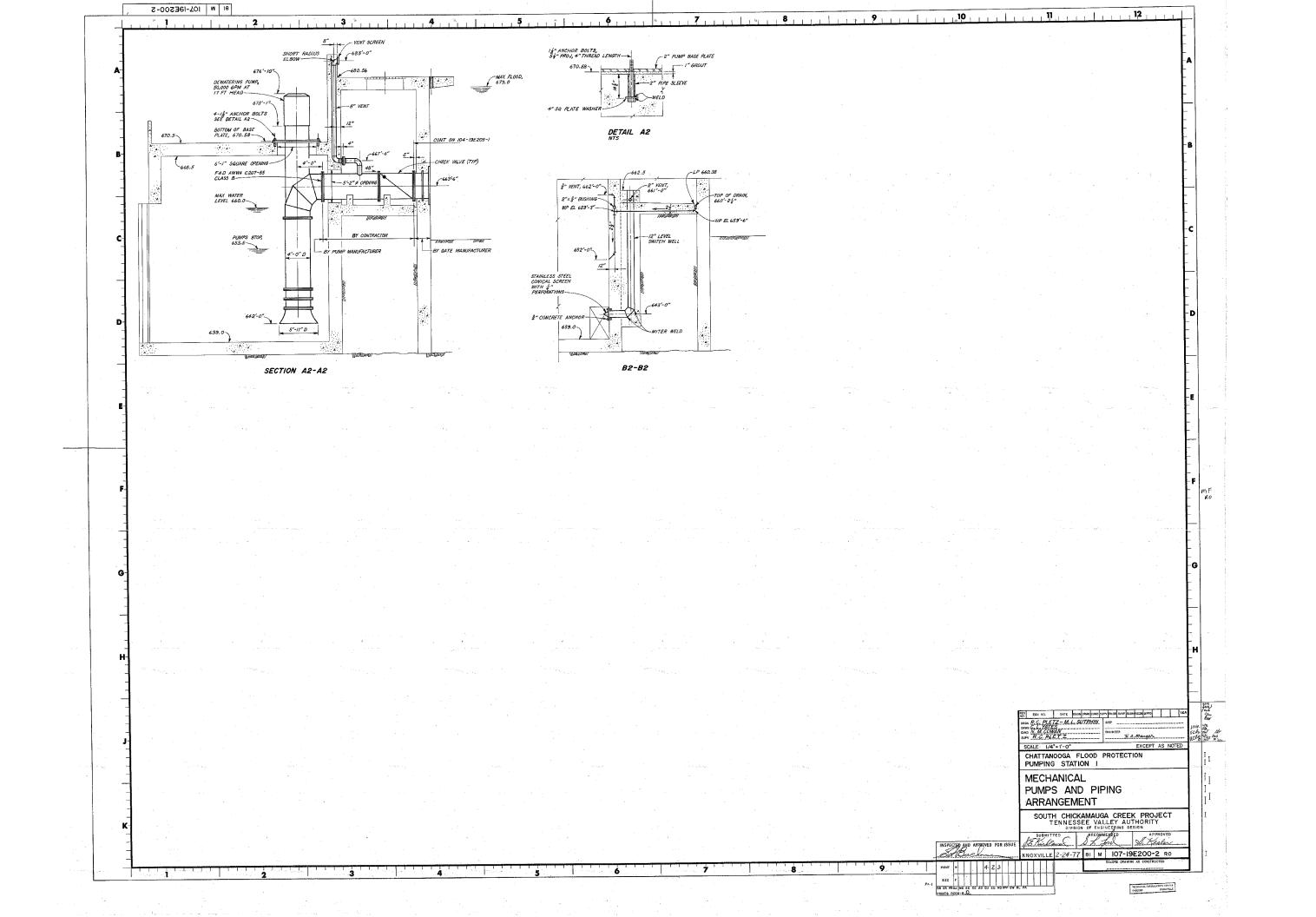


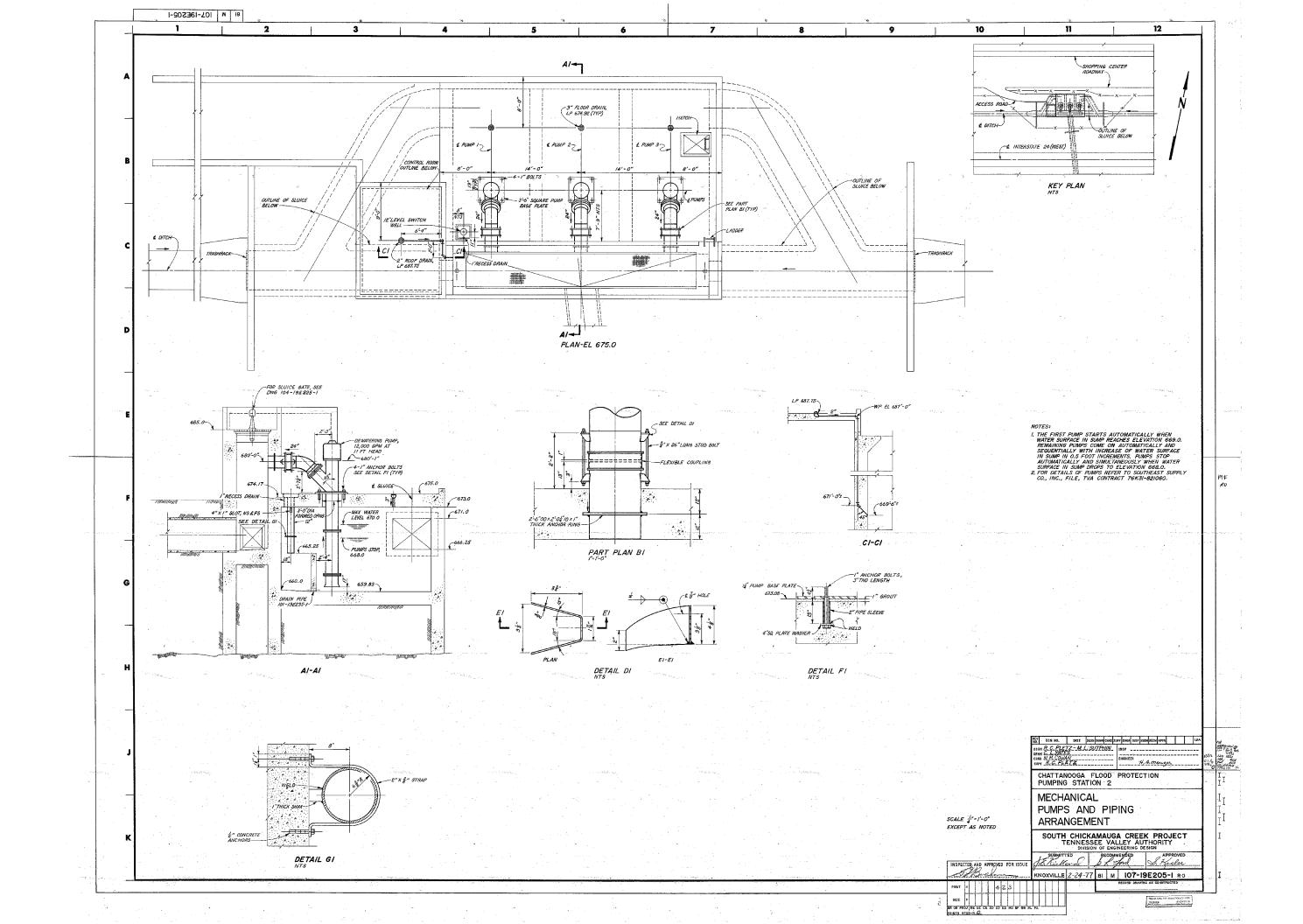


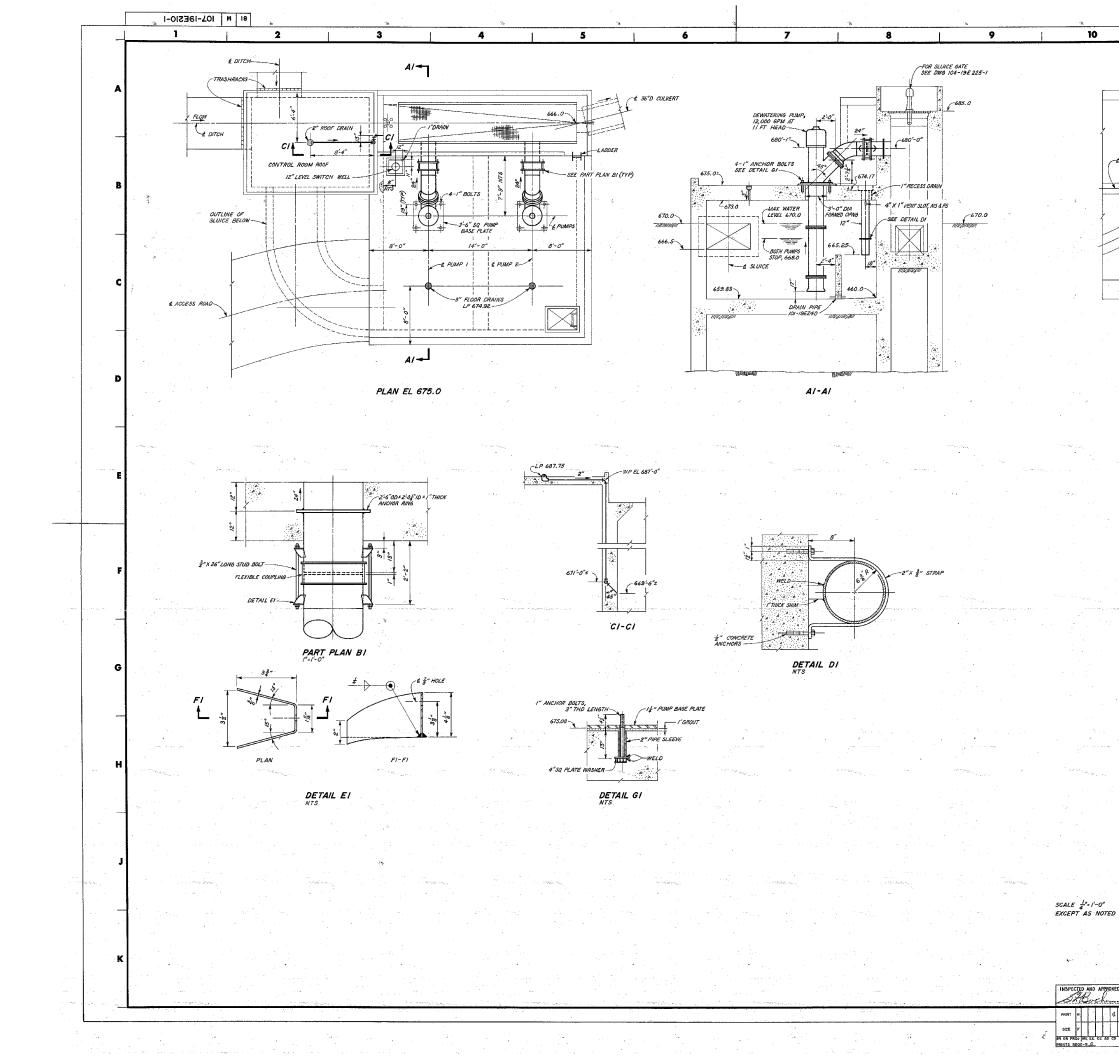


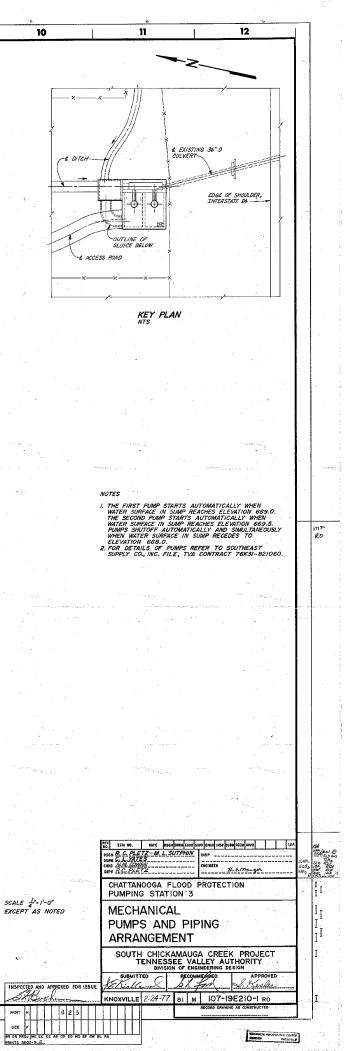


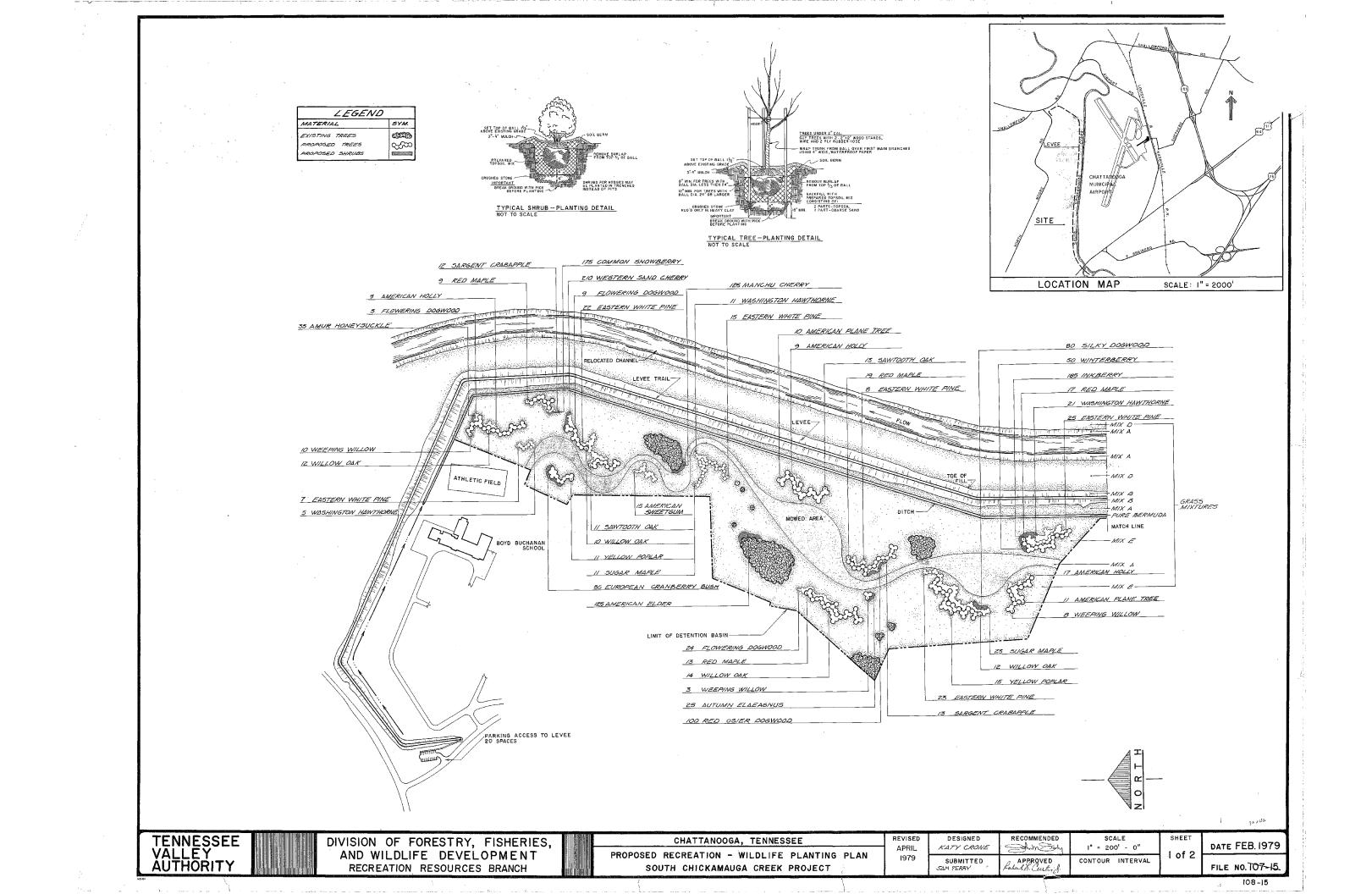


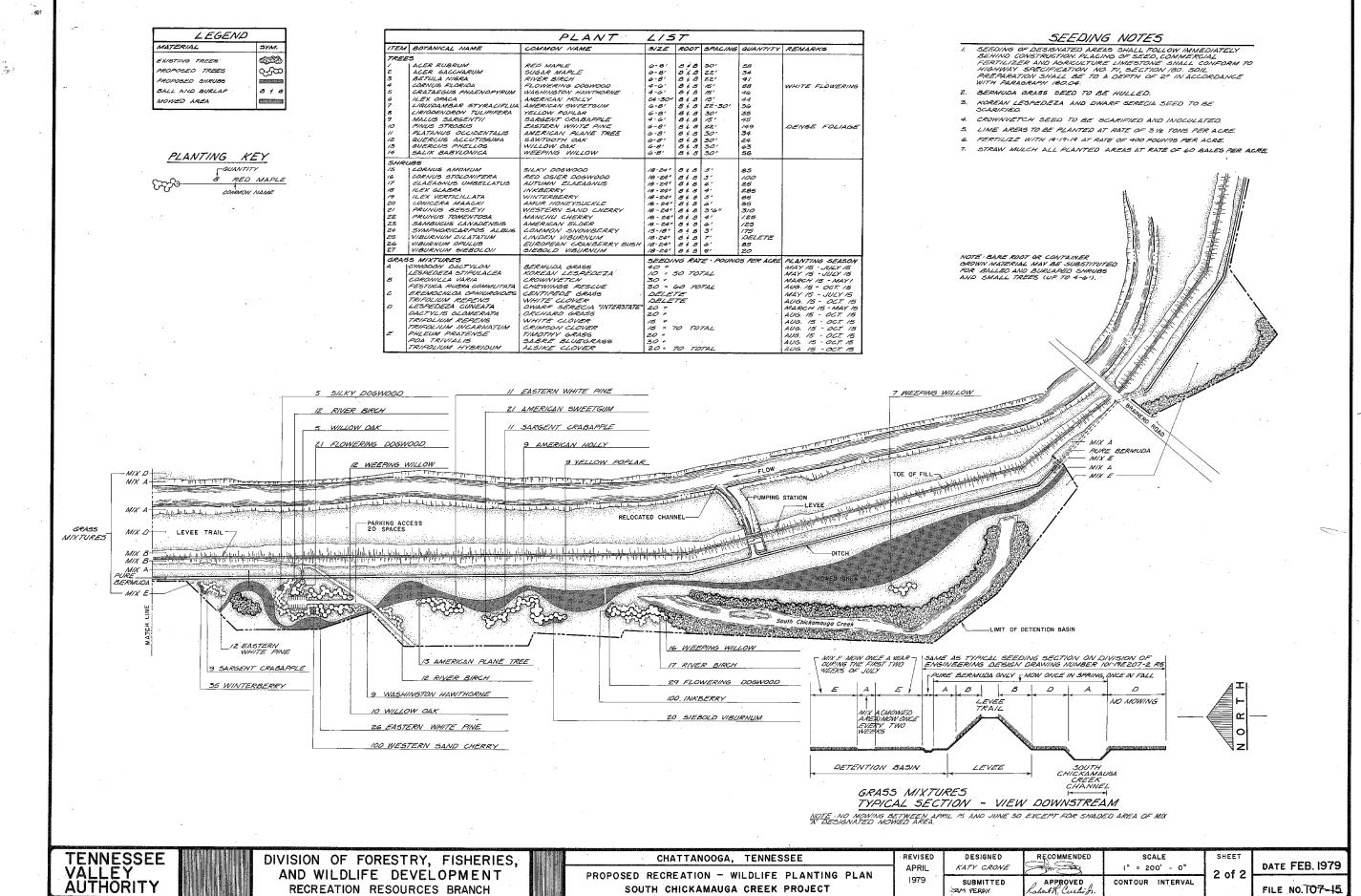












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