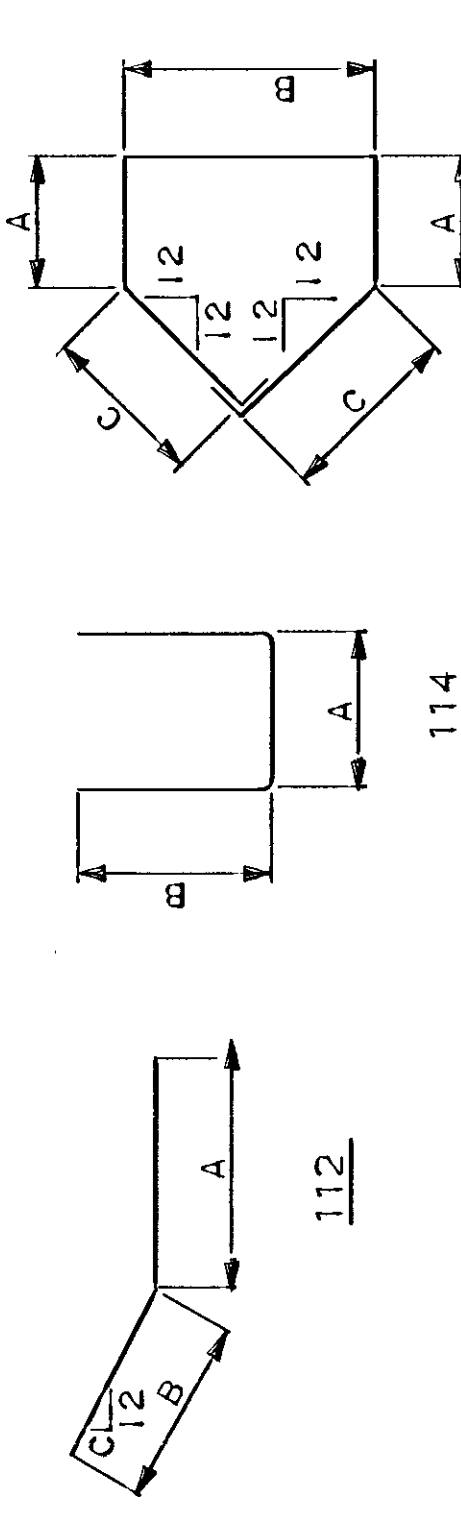


BAR LIST FOR TWO ABUTMENTS

BAR NO.	LENGTH	DIMENSIONS				LOCATION	
		A	B	C	D		
A601E	36	32'-3"	STR			HORIZ	
A602E	36	34'-9"	STR			HORIZ	
A503E	16	33'-5"	STR			HORIZ	
A504E	120	13'-6"	114	2'-6"	5'-6"	VERT	
A505E	32	7'-6"	114	2'-6"	2'-6"	VERT	
A406E	124	4'-3 1/2"	114	0'-3 1/2"	2'-0"	VERT	
A507E	32	4'-6"	114	2'-6"	1'-0"	PILE TIE	
A408E	116	2'-0"	STR			SLAB DOWEL	
A410E	4 SER	4'-3"	STR			VERT WW-W	
	OF 11	10'-4"	STR			VERT WW-W	
A411E	10	10'-4"	STR			VERT WW-W	
A512E	2	14'-3"	112	13'-0"	1'-3"	4 3/8	HORIZ WW-W
A613E	2	15'-0"	112	13'-0"	2'-0"	4 3/8	HORIZ WW-W
A614E	2	6'-1"	112	4'-10"	1'-3"	12	HORIZ WW-W
A615E	2	5'-10"	STR				HORIZ WW-W
A516E	2	8'-11"	112	7'-8"	1'-3"	12	HORIZ WW-W
A617E	2	8'-7"	STR				HORIZ WW-W
A518E	2	11'-9"	112	10'-5"	1'-3"	12	HORIZ WW-W
A619E	2	11'-4"	STR				HORIZ WW-W
A520E	10	12'-9"	112	11'-6"	1'-3"	12	HORIZ WW-W
A621E	10	11'-6"	STR				HORIZ WW-W
A522E	2	7'-9"	112	6'-6"	1'-3"	12	HORIZ WW-W
A623E	2	6'-6"	STR				HORIZ WW-W
A624E	4	11'-6"	112	10'-3"	1'-3"	2 7/8	HORIZ WW-W
A425E	8	6'-7"	210	0'-8"	1'-10"	1'-4"	HORIZ
A526E	2	8'-0"	112	6'-9"	1'-3"	12	HORIZ WW-E
A530E	2	6'-11"	112	5'-8"	1'-3"	4 3/8	HORIZ WW-E
A631E	2	7'-8"	112	5'-8"	2'-0"	4 3/8	HORIZ WW-E
A532E	2	6'-10"	112	5'-7"	1'-3"	12	HORIZ WW-E
A633E	2	5'-7"	STR				HORIZ WW-E
A534E	8	8'-1"	112	6'-10"	1'-3"	12	HORIZ WW-E
A635E	10	6'-8"	STR				HORIZ WW-E
A636E	4	6'-8"	112	5'-5"	1'-3"	2 7/8	HORIZ WW-E
A437E	10	7'-5"	STR				VERT WW-E
A438E	4 SER	4'-4"	STR				VERT WW-E
	OF 6	7'-3"	STR				VERT
A539E	28	9'-0"	114	2'-6"	3'-3"		VERT
A540E	28	10'-6"	114	2'-6"	4'-0"		VERT
A541E	32	12'-2"	114	2'-6"	4'-10"		VERT

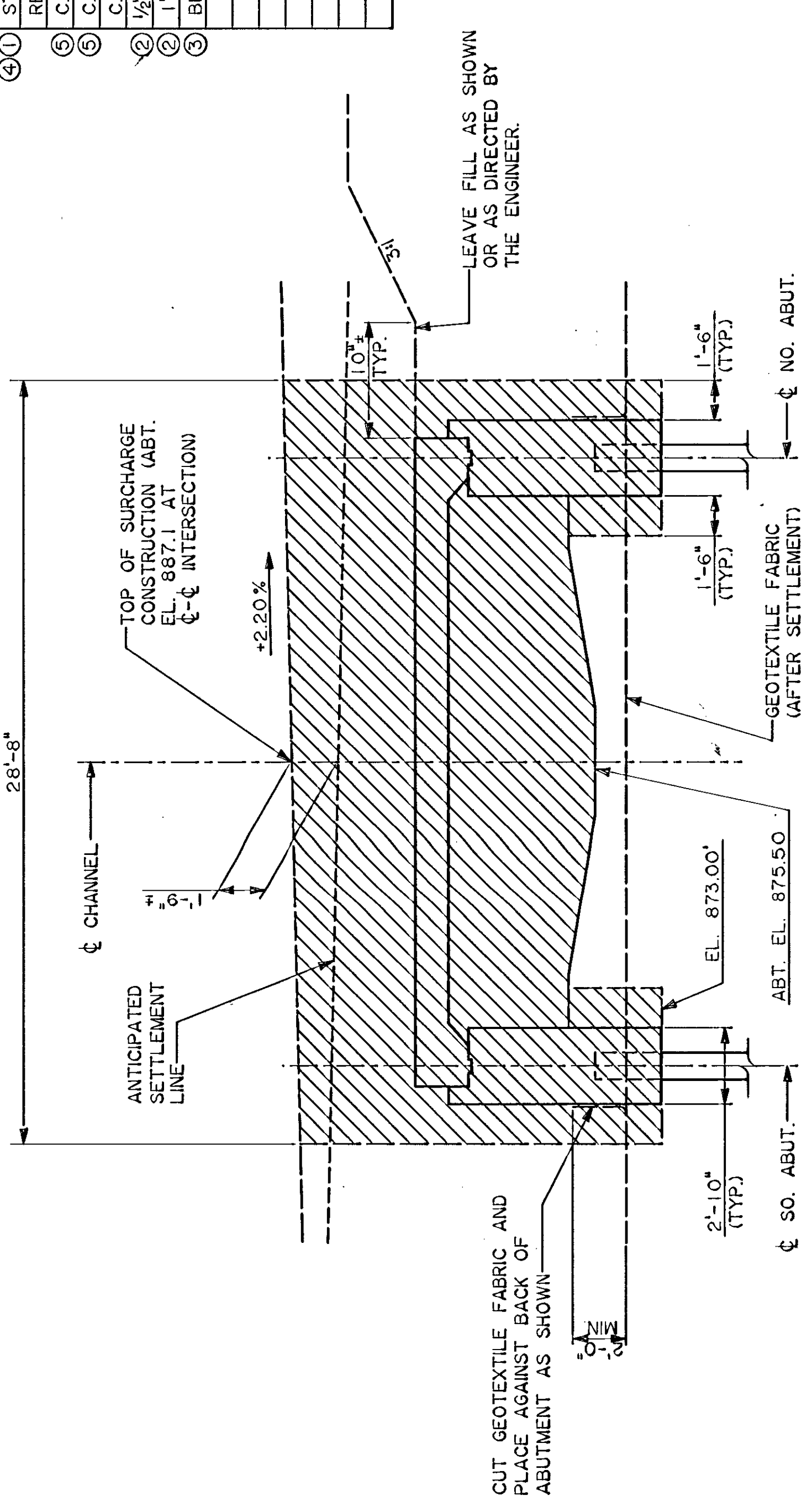


210

SUMMARY OF QUANTITIES FOR TWO ABUTMENTS

ITEM	QUANTITY	UNIT	CUM. YD.
STRUCTURE CONCRETE (3Y43)	112	LUMP SUM	
STRUCTURE EXCAVATION	1	LUMP SUM	
REINFORCEMENT BARS (EPOXY COATED)	9130	POUNDS	
C.I.P. CONCRETE PILING DELIVERED, 12"	980	LIN. FT.	
C.I.P. CONCRETE PILING DRIVEN, 12"	980	LIN. FT.	
C.I.P. CONCRETE TEST PILES, 80' LONG, 12"	2	EACH	
1/2" BIT. FELT (SEE SCHEDULE ON SH. 7)	---	---	
1" CORK (SEE SCHEDULE ON SH. 7)	---	---	
BENCH MARK DISK	1	EACH	

- ① SEE SPECIAL PROVISIONS.
- ② TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.
- ③ CITY WILL FURNISH DISK. PAYMENT FOR PLACING TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS. SEE STD. PLATE NO. 9301 FOR PLACING DISK IN CONCRETE.
- ④ STRUCTURE EXCAVATION VOLUME IS APPROXIMATELY 1000 CU. YDS. AND INCLUDES REMOVAL OF SURCHARGE MATERIAL IN CHANNEL AND REPOSITIONING OF GEOTEXTILE MATERIAL UNDER SURCHARGE. SEE DETAIL ON THIS SHEET.
- ⑤ DOES NOT INCLUDE TEST PILES.



STRUCTURE EXCAVATION-PROFILE ELEVATION

NOTE: THE ESTIMATED QUANTITY FOR "LUMP SUM" STRUCTURE EXCAVATION IS BASED ON THE CROSSHATCHED AREA SHOWN. SEE SHEET 11 FOR TYPICAL TRANSVERSE SECTION SHOWING SURCHARGE PLACEMENT. UPPER LIMITS ARE BASED ON PLAN CROSS-SECTIONS FOR ORIGINAL PLACEMENT BEFORE SETTLEMENT.

COMPUTED PILE LOADS - TONS/PILE

DEAD LOAD	41.4
LIVE LOAD	11.5
DESIGN LOAD	52.9

A.A.S.H.T.O. 3.22 GROUP I LOADING

- PILE NOTES:
- ④ ALL CAST-IN-PLACE CONCRETE PILES TO HAVE A NOMINAL DIAMETER OF 12".
 - ⑤ 1 CAST-IN-PLACE CONCRETE TEST PILE EST. LENGTH 80 FT. LONG REQ'D PER ABUTMENT.
 - ⑥ 7 CAST-IN-PLACE CONCRETE PILES EST. LENGTH 70 FT. REQ'D PER ABUTMENT.
 - ⑦ 8 CAST-IN-PLACE CONCRETE PILES REQ'D PER ABUTMENT. FOR PILE SPLICE DETAILS SEE DETAIL B201.

REVISED 4-25-89

Designed by **TKDA**
 TOLTZ, KING, DUVAL, ANDERSON AND ASSOCIATES, INC.
 SAINT PAUL, MINNESOTA

TITLE: **ABUTMENT BAR LIST AND SUMMARY OF QUANTITIES**

DES: **JLB** DATE: **JES.** APPROVED: _____
 CHK: **ROC.** DATE: **ROC.**

Sheet No. **5** of **12** Sheets Bridge No. **02551**