STATE	PROJECT NUMBER	SHEET No.	TOTAL SHEETS
GA.	EDF-017-3 (39)	116	194

REINFORCING STEEL - BARRELS

BARREL DESIGN NO. 1
FOR 1.5 TO 12.0' DEPTH OF FILL OVER BARREL INCLUDING PAVING

	Clear Span	Clear Height	A Bars Size	A Bars Number	A Bars Length	A Bars Space	G Bars Size	G Bars Number	G Bars Length	G Bars Space	H Bars Size	H Bars Number	H Bars Length	H Bars Space	B Bars Size	B Bars Number	B Bars Length	B Bars Space	C ½"φ Number	C ½"φ Length	C ½"φ Space	D ½"φ Number	D ½"φ Length	D ½"φ Space
DOUBLE	7'	4'	¾"φ	2 X (L IN INCHES ÷ SPACING) + 2 BARS	16·2	15"	⅞"φ	2 X (L IN INCHES ÷ SPACING)	16·5	15"	⅞"φ	SAME AS A BARS	5·0	15"	½"φ	3 X (L IN INCHES ÷ SPACING) + 3 BARS	5·2	12"	32	½ AT L IN FT + 5·6 + 2·0 FOR EACH LAP; ½ AT L IN FT + 5·7 + 2·0 FOR EACH LAP	12"	12	½ AT L IN FT + 4·6 + 2·0 FOR EACH LAP; ½ AT L IN FT + 1·8 + 2·0 FOR EACH LAP	12"
		5'			16·2	15"			16·5	15"			5·0	15"			6·2	12"	32		12"	15		12"
		6'			16·2	15"			16·5	15"			5·0	15"	⅝"φ		7·2	12"	32		12"	18		12"
		7'			16·2	15"			16·5	15"			5·0	15"			8·3	10"	32		12"	21		12"
	8'	4'	⅝"φ		18·2	13"	⅞"φ		18·6	13"	⅞"φ		5·6	13"	½"φ		5·4	12"	36		12"	12		12"
		5'			18·2	13"			18·6	13"			5·6	13"			6·4	12"	36		12"	15		12"
		6'			18·2	13"			18·6	13"			5·6	13"	⅝"φ		7·4	12"	36		12"	18		12"
		7'			18·2	13"			18·6	13"			5·6	13"			8·4	10"	36		12"	21		12"
		8'			18·8	13"			19·0	13"			5·6	13"	¾"φ		9·5	12"	36		12"	24		12"
	9'	4'	⅝"φ		20·2	12"	⅞"φ		20·6	12"	⅞"φ		6·0	12"	½"φ		5·6	12"	40		12"	12	⅔ AT L IN FT + 4·6 + 2·0 FOR EACH LAP; ⅓ AT L IN FT + 1·8 + 2·0 FOR EACH LAP	12"
		5'			20·2	12"			20·6	12"			6·0	12"			6·6	12"	40		12"	15		12"
		6'			20·2	12"			20·6	12"			6·0	12"	⅝"φ		7·6	12"	40		12"	18		12"
		7'			20·2	12"			20·6	12"			6·0	12"			8·6	10"	40		12"	21		12"
		8'			20·8	12"			21·0	12"			6·0	12"	¾"φ		9·7	12"	40		12"	24		12"
		9'			20·8	12"			21·0	12"			6·0	12"			10·7	10"	40		12"	27		12"
		10'			20·8	12"			21·0	12"			6·0	12"			11·7	10"	40		12"	30		12"
TRIPLE	7'	4'	¾"φ	2 X (L IN INCHES ÷ SPACING) + 2 BARS	24·0	15"	⅞"φ	2 X (L IN INCHES ÷ SPACING)	24·6	15"	⅞"φ	SAME AS A BARS	13·0	15"	½"φ	4 X (L IN INCHES ÷ SPACING) + 4 BARS	5·2	12"	48	½ AT L IN FT + 5·6 + 2·0 FOR EACH LAP; ½ AT L IN FT + 5·7 + 2·0 FOR EACH LAP	12"	16	½ AT L IN FT + 4·6 + 2·0 FOR EACH LAP; ½ AT L IN FT + 1·8 + 2·0 FOR EACH LAP	12"
		5'			24·0	15"			24·6	15"			13·0	15"			6·2	12"	48		12"	20		12"
		6'			24·0	15"			24·6	15"			13·0	15"	⅝"φ		7·2	12"	48		12"	24		12"
		7'			24·0	15"			24·7	15"			13·0	15"			8·3	10"	48		12"	28		12"
	8'	4'	⅝"φ		27·0	13"	⅞"φ		27·7	13"	⅞"φ		14·6	13"	½"φ		5·4	12"	54		12"	16		12"
		5'			27·0	13"			27·7	13"			14·6	13"			6·4	12"	54		12"	20		12"
		6'			27·0	13"			27·7	13"			14·6	13"	⅝"φ		7·4	12"	54		12"	24		12"
		7'			27·0	13"			27·7	13"			14·6	13"			8·4	10"	54		12"	28		12"
		8'			27·8	13"			28·4	13"			14·6	13"	¾"φ		9·5	12"	54		12"	32		12"
	9'	4'	⅝"φ		30·0	12"	⅞"φ ②		30·7	12"	⅞"φ ②		16·0	12"	½"φ		5·6	12"	60		12"	16		12"
		5'			30·0	12"			30·7	12"			16·0	12"			6·6	12"	60		12"	20		12"
		6'			30·0	12"			30·7	12"			16·0	12"	⅝"φ		7·6	12"	60		12"	24		12"
		7'			30·0	12"			30·7	12"			16·0	12"			8·6	10"	60		12"	28		12"
		8'			30·8	12"			31·4	12"			16·0	12"	¾"φ		9·7	12"	60		12"	32		12"
		9'			30·8	12"			31·4	12"			16·0	12"			10·7	10"	60		12"	36		12"
		10'			30·8	12"			31·4	12"			16·0	12"			11·7	10"	60		12"	40		12"

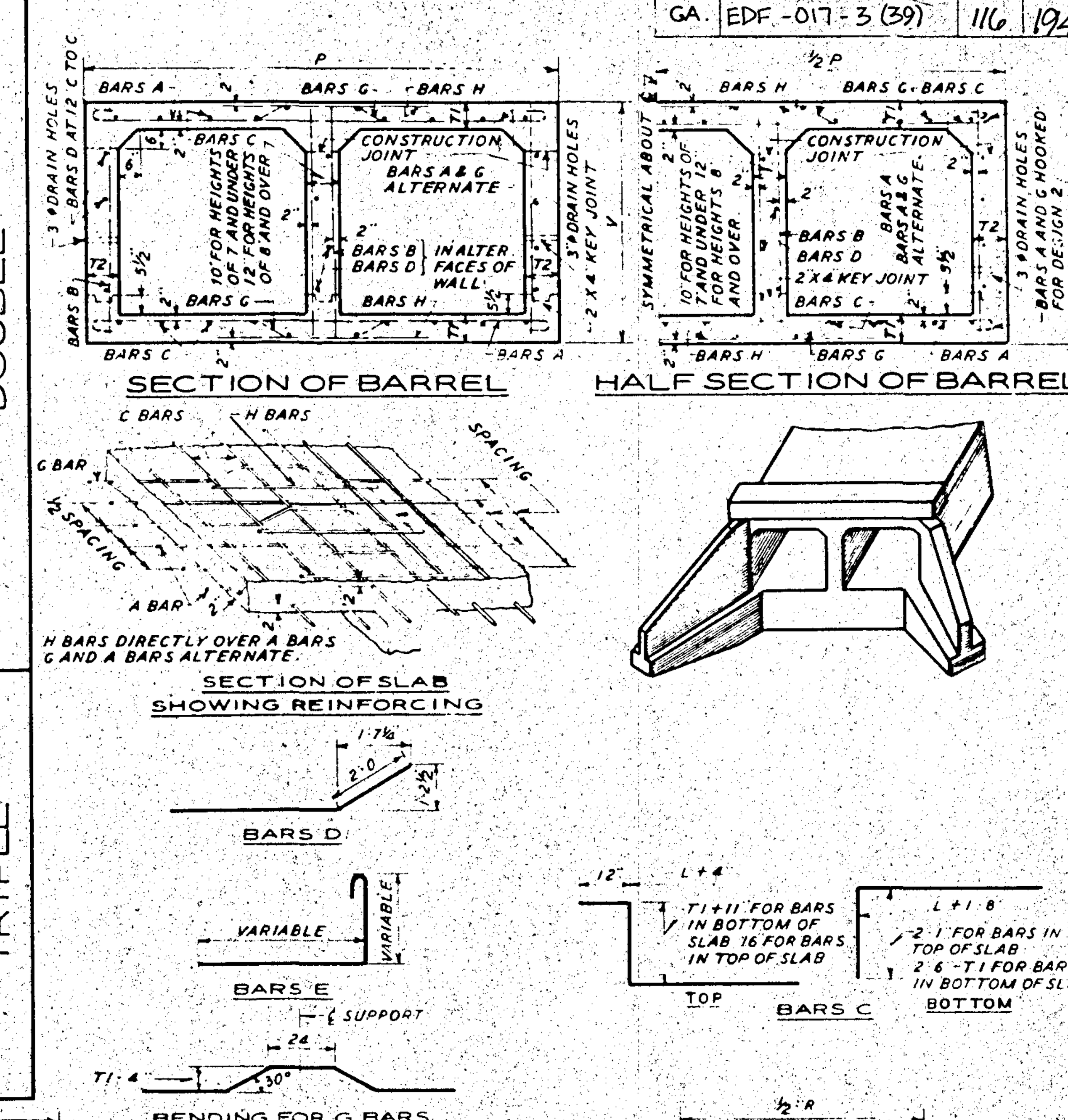
BARREL DESIGN NO. 2
FOR 12.1' TO 20.0' DEPTH OF FILL

	Clear Span	Clear Height	A Bars Size	A Bars Number	A Bars Length	A Bars Space	G Bars Size	G Bars Number	G Bars Length	G Bars Space	H Bars Size	H Bars Number	H Bars Length	H Bars Space	B Length	C Length	D ½"φ Number	D ½"φ Length	D ½"φ Space
DOUBLE	7'	4'	⅝"φ	2 X (L IN INCHES ÷ SPACING) + 2 BARS	17·10	13"	¾"φ	2 X (L IN INCHES ÷ SPACING)	18·3	13"	1"φ	SAME AS A BARS	5·0	13"	5·6 (NUMBER, SIZE AND SPACING SAME AS DESIGN 1)	½ AT L IN FT + 5·10 + 2·0 FOR EACH LAP; ½ AT L IN FT + 5·6 + 2·0 FOR EACH LAP (NUMBER, SIZE AND SPACING SAME AS DESIGN 1)	12	½ AT L IN FT + 4·6 + 2·0 FOR EACH LAP; ½ AT L IN FT + 1·8 + 2·0 FOR EACH LAP	12
		5'			18·2	12"			18·7	12			5·0	12"	6·6		15		12
		6'			18·2	12			18·7	12			5·0	12"	7·6		18		12
		7'			18·6	12			18·11	12"			5·0	12"	8·7		21		12
	8'	4'	⅝"φ		19·10	13"	⅞"φ		20·3	13"	1"φ		5·6	13"	5·8		12		12
		5'			20·2	12"			20·8	12"			5·6	12"	6·9		15		12
		6'			20·2	12			20·8	12			5·6	12"	7·9		18		12
		7'			20·6	12"			21·0	12"			5·6	12"	8·9		21		12
		8'			20·8	11"			21·2	11			5·6	11"	9·9		24		12
	9'	4'	⅝"φ		22·2	11"	⅞"φ		22·9	11"	1"φ		6·0	11"	5·11		12	⅔ AT L IN FT + 4·6 + 2·0 FOR EACH LAP; ⅓ AT L IN FT + 1·8 + 2·0 FOR EACH LAP	12
		5'			22·6	11"			23·1	11"			6·0	11"	6·11		15		12
		6'			22·6	11"			23·1	11"			6·0	11"	7·11		18		12
		7'			22·10	10"			23·5	10"			6·0	10"	9·0		21		12
		8'			23·0	10"			23·7	10			6·0	10"	10·0		24		12
		9'			23·2	10"			23·9	10			6·0	10	11·0		27		12
		10'			23·6	10"			24·1	10"			6·0	10"	12·1		30		12
TRIPLE	7'	4'	⅝"φ	2 X (L IN INCHES ÷ SPACING) + 2 BARS	25·8	13"	¾"φ	2 X (L IN INCHES ÷ SPACING)	26·6	13	1"φ	SAME AS A BARS	13·0	13	5·6 (NUMBER, SIZE AND SPACING SAME AS DESIGN 1)	½ AT L IN FT + 5·10 + 2·0 FOR EACH LAP; ½ AT L IN FT + 5·6 + 2·0 FOR EACH LAP (NUMBER, SIZE AND SPACING SAME AS DESIGN 1)	16	½ AT L IN FT + 4·6 + 2·0 FOR EACH LAP; ½ AT L IN FT + 1·8 + 2·0 FOR EACH LAP	12
		5'			26·0	12"			26·10	12"			13·0	12	6·6		20		12
		6'			26·0	12"			26·10	12"			13·0	12	7·6		24		12
		7'			26·4	12"			27·3	12			13·0	12"	8·7		28		12
	8'	4'	⅝"φ		28·8	13"	⅞"φ		29·7	13	1"φ		14·6	13"	5·8		16		12
		5'			29·0	12"			29·11	12"			14·6	12	6·9		20		12"
		6'			29·0	12"			29·11	12"			14·6	12	7·9		24		12
		7'			29·4	12"			30·3	12"			14·6	12	8·9		28		12
		8'			29·8	11"			30·7	11			14·6	11	9·9		32		12
	9'	4'	⅝"φ		32·0	11"	⅞"φ		33·0	11"	1"φ		16·0	11"	5·11		16		12
		5'			32·4	11"			33·4	11			16·0	11"	6·11		20		12
		6'			32·4	11"			33·4	11"			16·0	11"	7·11		24		12
		7'			32·8	10"			33·9	10			16·0	10"	9·0		28		12
		8'			33·0	10			34·1	10"			16·0	10"	10·0		32		12
		9'			33·2	10"			34·3	10			16·0	10	11·0		36		12
		10'			33·6	10"			34·7	10"			16·0	10"	12·1		40		12

DIMENSIONS AND QUANTITIES

	Clear Span	Clear Height	Barrel Design No. 1 T1	T2	V	P	Barrel Design No. 2 T1	T2	V	P	Reinforcing Steel Lbs. per Lin. Ft. of Barrel Design No. 1	Design No. 2	Wingwalls and Parapets Total Lbs	Concrete Cu. Yds. per Lin. Ft. of Barrel Design No. 1	Design No. 2	Wingwalls & Parapets Total Cu. Yds. Des. No. 1	Des. No. 2
DOUBLE	7'	4'	9	10	5·6	16·6	11"	10"	5·10	16·6	155.8	157.1	599	1,306	1,509	15.46	15.58
		5'	9"	10	6·6	16·6	11"	12"	6·10	16·10	160.1	172.0	731	1,398	1,686	18.04	18.26
		6'	9	10	7·6	16·6	11	12"	7·10	16·10	172.7	185.0	856	1,491	1,791	20.82	21.07
		7'	9½	10	8·7	16·6	11½	14	8·11	17·2	183.6	197.9	1019	1,634	2,058	23.96	24.44
	8'	4'	10	10	5·8	18·6	12"	10	6·0	18·6	175.9	193.2	628	1,531	1,759	16.30	16.42
		5'	10"	10"	6·8	18·6	12½	12	7·1	18·10	180.3	211.4	762	1,623	1,996	18.90	19.23
		6'	10"	10	7·8	18·6	12½	12	8·1	18·10	193.1	224.7	886	1,716	2,101	21.70	22.07
		7'	10	10	8·8	18·6	12½	14	9·1	19·2	203.8	237.7	1052	1,809	2,318	24.82	25.43
		8'	10½	12	9·9	19·0	12½	14	10·1	19·4	220.5	268.4	2698	2,139	2,498	29.77	30.38
	9'	4'	11"	10	5·10	20·6	13½	10	6·3	20·6	204.2	243.2	682	1,781	2,097	17.47	17.81
		5'	11	10	6·10	20·6	13½	12	7·3	20·10	208.6	249.8	798	1,873	2,279	20.13	20.59
		6'	11	10	7·10	20·6	13½	12	8·3	20·10	221.6	263.3	948	1,966	2,384	23.00	23.50
		7'	11	10	8·10	20·6	14"	14"	9·4	21·2	232.4	294.5	1093	2,059	2,669	26.14	26.99
		8'	11½	12	9·11	21·0	14"	14	10·4	21·4	249.5	309.7	2806	2,398	2,850	31.17	32.02
		9'	11½	12	10·11	21·0	14"	15	11·4	21·6	265.9	327.7	3239	2,509	3,043	35.00	36.15
		10'	11½	12	11·11	21·0	14½	17	12·5	21·10	273.7	338.6	3812	2,620	3,393	40.23	42.24
TRIPLE	7'	4'	9	10"	5·6	24·4	11"	10"	5·10	24·4	247.8	255.7	681	1,873	2,174	18.40	18.52
		5'	9	10"	6·6	24·4	11"	12	6·10	24·8	253.5	278.4	813	1,997	2,382	21.04	21.25
		6'	9	10	7·6	24·4	11"	12	7·10	24·8	270.3	295.7	938	2,120	2,517	23.87	24.12
		7'	9½	10	8·7	24·4	11½	14"	8·11	25·0	284.9	312.3	1101	2,319	2,840	27.08	27.56
	8'	4'	10	10"	5·8	27·4	12	10"	6·0	27·4	283.6	312.6	720	2,209	2,546	19.57	19.70
		5'	10	10	6·8	27·4	12½	12"	7·1	27·8	289.4	340.1	854	2,332	2,842	22.24	23.09
		6'	10	10"	7·8	27·4	12½	12"	8·1	27·8	306.4	357.7	978	2,456	2,977	25.10	25.50
		7'	10	10"	8·8	27·4	12½	14	9·1	28·0	320.7	374.4	1144	2,579	3,225	28.29	28.92
		8'	10½	12"	9·9	28·0	12½	14	10·1	28·4	343.0	421.2	2792	3,028	3,498	33.46	34.09
	9'	4'	11"	10"	5·10	30·4	13½	10"	6·3	30·4	331.0	395.4	784	2,581	3,049	21.10	21.53
		5'	11"	10"	6·10	30·4	13½	12	7·3	30·8	336.7	403.5	901	2,705	3,262	23.81	24.37
		6'	11"	10"	7·10	30·4	13½	12"	8·3	30·8	[illegible]	421.8	1051	2,828	3,398	26.75	27.34
		7'	11"	10"	8·10	30·4	14"	14"	9·4	31·0	358.4	468.0	1196	2,952	3,744	29.95	30.92
		8'	11½	12"	9·11	31·0	14"	14"	10·4	31·4	391.5	489.1	2910	3,414	4,019	35.20	36.18
		9'	11½	12"	10·11	31·0	14"	15	11·4	31·6	413.3	512.7	3344	3,562	4,250	39.10	40.37
		10'	11½	12"	11·11	31·0	14½	17	12·5	31·10	[illegible]	526.3	3916	3,710	4,667	44.41	46.57

②



WINGWALLS AND PARAPETS

DIMENSIONS

	Clear Span	Clear Height	Design No. 1 H	Design No. 1 W1	Design No. 2 H	Design No. 2 W1	W2	M	R Double	R Triple	X	Size
DOUBLES AND TRIPLES	7'	4'	5·3	3·1½	5·5	3·3½	2·1½	9·0	17·0	24·10	0	⅝"φ
		5'	6·3	3·8½	6·5	3·10½	2·6½	10·6	17·4	25·2	0	⅝"φ
		6'	7·3	4·4	7·5	4·6	2·11	12·0	17·4	25·2	0	⅝"φ
		7'	8·3½	4·11½	8·5½	5·1½	3·4	13·6	17·8	25·6	0	⅝"φ
	8'	4'	5·4	3·0½	5·6	3·2½	2·3½	9·0	19·0	27·10	0	⅝"φ
		5'	6·4	3·7½	6·6½	3·10	2·8½	10·6	19·4	28·2	0	⅝"φ
		6'	7·4	4·3	7·6½	4·5½	3·1	12·0	19·4	28·2	0	⅝"φ
		7'	8·4	4·10	8·6½	5·0½	3·6	13·6	19·8	28·6	0	⅝"φ
		8'	9·4½	5·5½	9·6½	5·7½	3·11	15·0	19·10	28·10	1·0	⅞"φ
	9'	4'	5·5	3·2	5·7½	3·4½	2·3	9·6	21·0	30·10	0	⅝"φ
		5'	6·5	3·9	6·7½	3·11½	2·8	11·0	21·4	31·2	0	⅝"φ
		6'	7·5	4·4	7·7½	4·6½	3·1	12·6	21·4	31·2	0	⅝"φ
		7'	8·5	4·11½	8·8	5·2½	3·5½	14·0	21·8	31·6	0	⅝"φ
		8'	9·5½	5·7	9·8	5·9½	3·10½	15·6	21·10	31·10	1·0	⅞"φ
		9'	10·5½	6·0	10·8	6·2½	4·5½	16·6	22·0	32·0	1·6	⅞"φ
		10'	11·5½	6·7	11·8½	6·9	4·10½	18·0	22·4	32·4	2·0	⅞"φ

REINFORCING STEEL FOR 4 WINGWALLS & 2 PARAPETS

"E" BARS AT 12" C. TO C.

Clear Span	Clear Height											
7'	4'	NUMBER	8	8	8	8	8					
		LENGTH	7·7	6·10	6·2	5·6	4·10					
	5'	NUMBER	8	8	8	8	8	8				
		LENGTH	8·7	7·10	7·2	6·5	5·6	5·0				
	6'	NUMBER	8	8	8	8	8	8	4			
		LENGTH	9·7	8·10	8·1	7·5	6·8	6·0	5·7			
	7'	NUMBER	8	8	8	8	8	8	8	4		
		LENGTH	10·7	9·10	9·1	8·5	7·8	6·11	6·3	5·10		
8'	4'	NUMBER	8	8	8	8	8					
		LENGTH	7·8	7·0	6·3	5·8	5·0					
	5'	NUMBER	8	8	8	8	8	8				
		LENGTH	8·8	7·11	7·3	6·7	5·11	5·2				
	6'	NUMBER	8	8	8	8	8	8	4			
		LENGTH	9·8	8·11	8·3	7·6	6·10	6·1	5·9			
	7'	NUMBER	8	8	8	8	8	8	8	4		
		LENGTH	10·8	9·11	9·3	8·6	7·10	7·1	6·4	6·0		
	8'	NUMBER	8	8	8	8	8	8	8	8		
		LENGTH	12·10	11·11	11·0	10·2	9·4	8·5	7·7	6·8		
9'	4'	NUMBER	8	8	8	8	8	4				
		LENGTH	7·9	7·1	6·5	5·9	5·1	4·9				
	5'	NUMBER	8	8	8	8	8	8				
		LENGTH	8·9	8·1	7·4	6·8	6·0	5·4				
	6'	NUMBER	8	8	8	8	8	8	8			
		LENGTH	9·9	9·0	8·4	7·8	7·0	6·4	5·7			
	7'	NUMBER	8	8	8	8	8	8	8	4		
		LENGTH	10·9	10·0	9·4	8·8	7·11	7·3	6·6	6·2		
	8'	NUMBER	8	8	8	8	8	8	8	8	4	
		LENGTH	12·11	12·0	11·2	10·4	9·6	8·7	7·9	6·11	6·5	
	9'	NUMBER	8	8	8	8	8	8	8	8	8	
		LENGTH	14·4	13·4	12·5	11·6	10·8	9·10	8·10	7·11	7·0	
	10'	NUMBER	8	8	8	8	8	8	8	8	8	8
		LENGTH	15·10	14·10	13·11	12·11	12·0	11·1	10·1	9·3	8·3	7·4

F BARS ½"φ AT 12" C. TO C.

Clear Span	Clear Height								
7'	4'	NUMBER	20	4	4	4			
		LENGTH	9·8	7·7	4·8	1·9			
	5'	NUMBER	20	4	4	4	4		
		LENGTH	11·2	10·4	7·5	4·7	1·9		
	6'	NUMBER	24	4	4	4	4		
		LENGTH	12·8	10·1	7·4	4·7	1·9		
	7'	NUMBER	24	4	4	4	4	4	
		LENGTH	14·2	12·9	10·0	7·3	4·6	1·9	
8'	4'	NUMBER	20	4	4	4			
		LENGTH	9·8	8·0	5·0	2·0			
	5'	NUMBER	20	4	4	4	4		
		LENGTH	11·2	10·9	7·10	4·11	2·0		
	6'	NUMBER	24	4	4	4	4		
		LENGTH	12·8	10·6	7·8	4·10	2·0		
	7'	NUMBER	24	4	4	4	4	4	
		LENGTH	14·2	13·2	10·4	7·7	4·9	2·0	
	8'	NUMBER	28	4	4	4	4	4	
		LENGTH	15·8	13·1	10·4	7·6	4·10	2·0	
9'	4'	NUMBER	20	4	4	4			
		LENGTH	10·2	8·4	5·4	2·4			
	5'	NUMBER	20	4	4	4	4		
		LENGTH	11·8	11·2	8·2	5·3	2·3		
	6'	NUMBER	24	4	4	4	4		
		LENGTH	13·2	10·11	8·1	5·2	2·3		
	7'	NUMBER	24	4	4	4	4	4	
		LENGTH	14·8	13·7	10·8	7·11	5·1	2·3	
	8'	NUMBER	28	4	4	4	4	4	
		LENGTH	16·2	13·5	10·4	7·10	5·1	2·3	
	9'	NUMBER	28	4	4	4	4	4	4
		LENGTH	17·2	16·0	13·4	10·6	7·9	5·0	2·3
	10'	NUMBER	32	4	4	4	4	4	4
		LENGTH	18·11	16·3	13·5	10·9	7·11	5·2	2·6

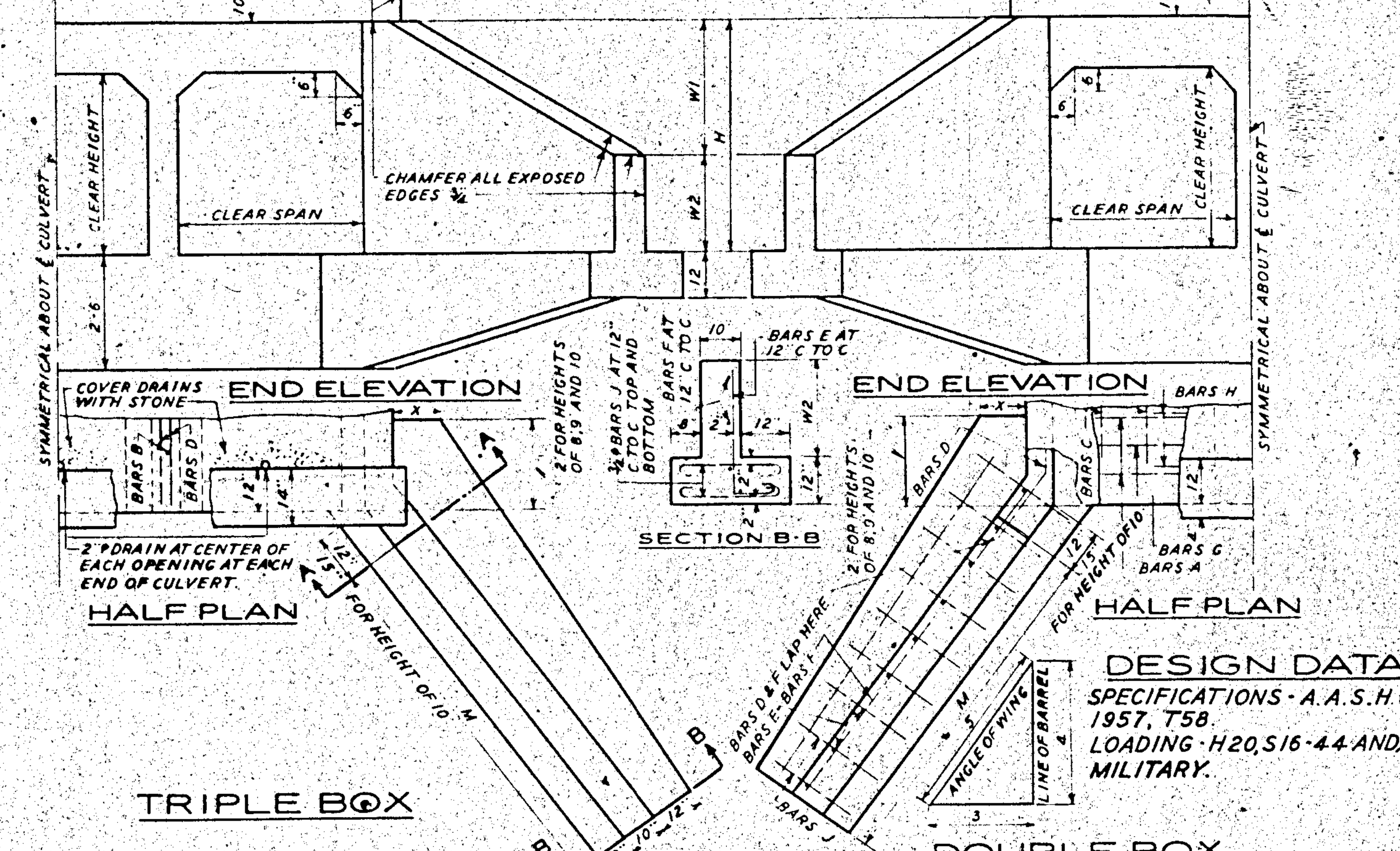
"J" BARS ¾"φ AT 12" C. TO C. IN TOP AND BOTTOM

Clear Span	Clear Height								
8'	8'	NUMBER	24	24	24	24	32		
		LENGTH	4·10	4·7	4·4	4·1	3·10		
9'	8'	NUMBER	24	24	24	28	28		
		LENGTH	4·10	4·7	4·4	4·1	3·10		
	9'	NUMBER	16	24	16	24	24	40	
		LENGTH	5·4	5·1	4·10	4·7	4·4	3·10	
	10'	NUMBER	24	32	16	16	16	16	40
		LENGTH	5·7	5·4	5·1	4·10	4·7	4·4	3·10

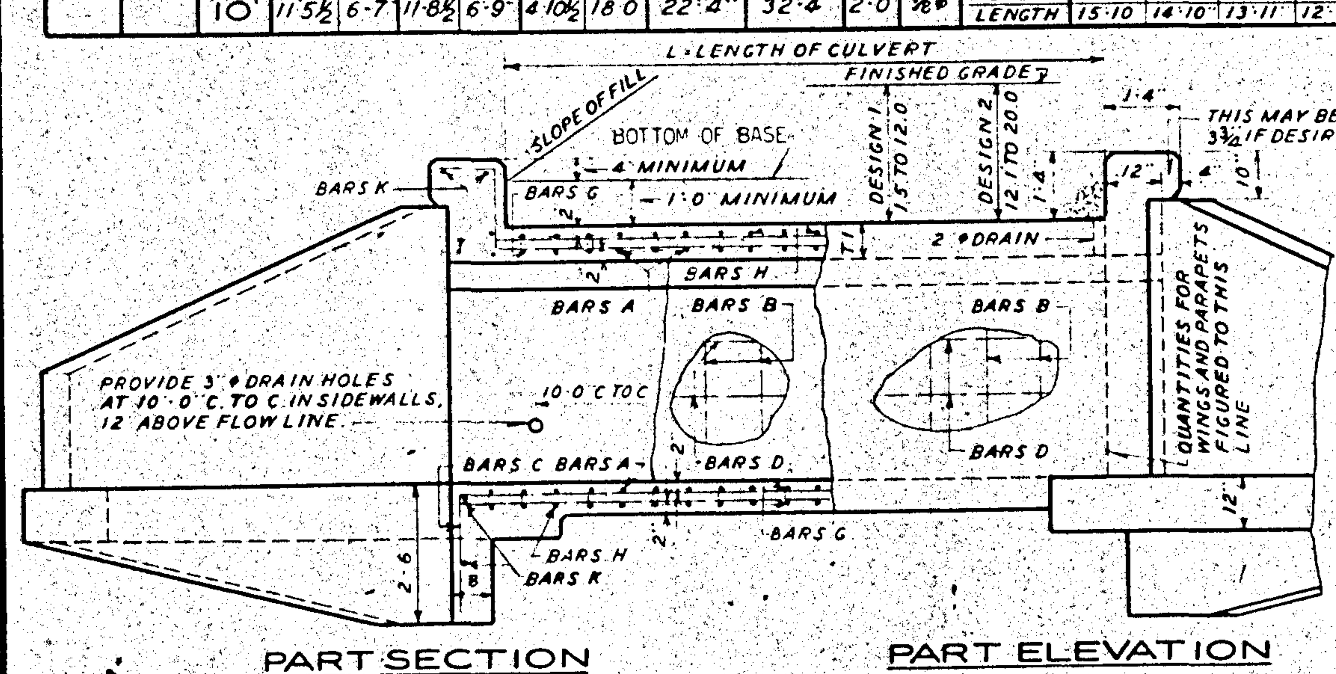
(No J bars for the other sizes.)

K ⅝"φ

Clear Span	Clear Height	Double Number	Double Length	Triple Number	Triple Length
7'	4'	10	16·8	10	24·6
	5'	10	17·0	10	24·10
	6'	10	17·0	10	24·10
	7'	10	17·4	10	25·2
8'	4'	10	18·8	10	27·6
	5'	10	19·0	10	27·10
	6'	10	19·0	10	27·10
	7'	10	19·4	10	28·2
	8'	10	19·6	10	28·6
9'	4'	10	20·8	10	30·6
	5'	10	21·0	10	30·10
	6'	10	21·0	10	30·10
	7'	10	21·4	10	31·2
	8'	10	21·6	10	31·6
	9'	10	21·8	10	31·8
	10'	10	22·0	10	32·0



DESIGN DATA
SPECIFICATIONS - A.A.S.H.O. 1957, T58.
LOADING - H20, S16-44 AND/OR MILITARY.



GENERAL NOTES

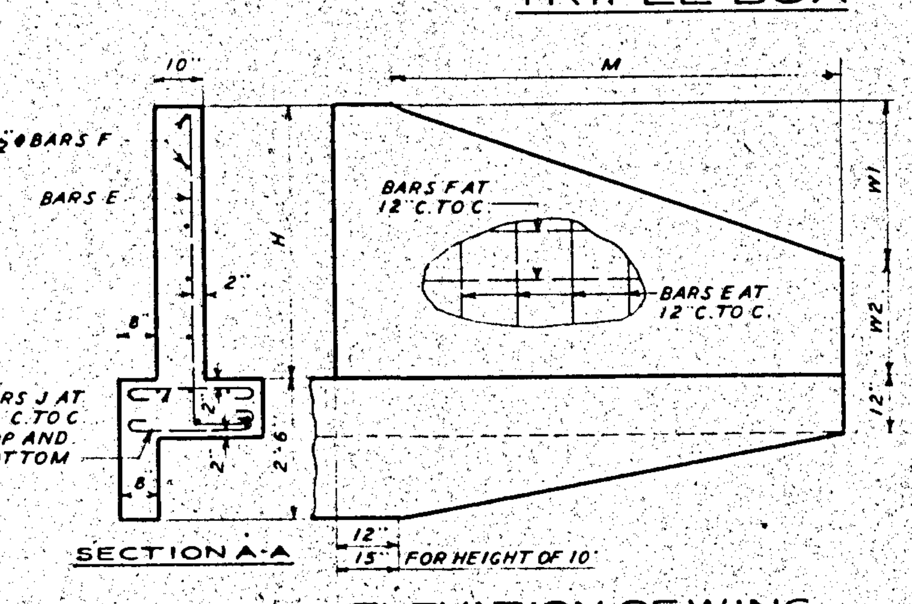
CHAMFER ALL EXPOSED EDGES 3/4"

APRON WALLS MAY BE OMITTED IF ENGINEER APPROVES. ENGINEER MAY ALSO REQUIRE BOTTOM SLAB TO EXTEND TO END OF WINGS AND APRON PLACED AT THIS POINT.

QUANTITIES FOR STEEL SHOWN ON THIS SHEET COMPUTED CONSIDERING ALL A, B, C, D, G AND H BARS AS PART OF BARREL QUANTITIES. STEEL PER LINEAL FOOT IS AN AVERAGE VALUE FOR A CULVERT OF 40' LENGTH ALLOWING ONE LAP IN LONGITUDINAL BARS.

SIZE OF CULVERT - IN DESIGNATING SIZES OF CULVERTS STATE CLEAR SPAN FIRST, I.E., A 9'x4' CULVERT HAS A 9' CLEAR SPAN AND A 4' CLEAR HEIGHT.

COVER - CULVERT TO HAVE MINIMUM OF 1.0' BELOW BOTTOM OF BASE OR CONCRETE PAVEMENT.



DATE	REVISIONS	BY
4-22-69	QUANTITIES	G.H.S.-A.J.H.
6-5-69	BARS G & H TRIP. 9' - DES. 1	E.E.L.

STATE HIGHWAY DEPARTMENT OF GEORGIA
BRIDGE DEPARTMENT

STANDARD REINFORCED CONCRETE BOX CULVERTS DOUBLE 7' X 4' TO TRIPLE 9' X 10'
FOR DEPTHS OF FILL UP TO 20 FEET

NO SCALE | DECEMBER 1959

DESIGNED R.B.D.
REDRAWN H.L.K.
TRACED H.L.K.
CHECKED O.P.G. Jr.

SUBMITTED [signature] BRIDGE ENGINEER
APPROVED [signature] STATE HIGHWAY ENGINEER

NUMBER 2326

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