

SPAN		5'										6'														
HEIGHT		4'					5'					6'					7'									
CONC.	MAX. FILL OVER TOP	11	26	35	46	11	25	35	46	10	18	25	36	9	17	25	36	45	9	17	25	36	45			
	TOP SLAB T ₁	7 1/2	8	9 1/2	10 1/2	7 1/2	8	9 1/2	10 1/2	8 1/2	9 1/2	10 1/2	9 1/2	11	12 1/2	14	15 1/2	11	12 1/2	14	15 1/2	11	12 1/2			
	BOTTOM SLAB T ₂	6	8	10	10 1/2	6	8	10	10 1/2	6 1/2	8	9 1/2	7 1/2	6	10	11 1/2	7 1/2	10 1/2	11 1/2	7 1/2	10 1/2	11 1/2	7 1/2			
	SIDEWALLS T ₃	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
REINFORCING STEEL	"A"																									
	SIZE: BAR #	5	5	6	6	5	5	6	6	5	5	6	5	5	6	5	5	6	7	5	5	6	7			
	SPACING	4	4	5	4 1/2	4	4	5	4 1/2	4	4	5	4	4	5	4 1/2	4	4	5	3 1/2	5	4	5			
	LENGTH	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-11	7-11			
	"B" DIST. BARS	TOP SLAB-NO.OF	7	3	3	3	7	3	3	3	7	4	4	7	4	4	7	4	4	7	4	4	7	4		
	BOT. SLAB-NO.OF	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
QUANTITIES	"E" BARS																									
	SPACING	18	17	13	11	18	12	8 1/2	6 1/2	18	18	17	13	11 1/2	8 1/2	17	10 1/2	7 1/2	6	5	12	7 1/2	7			
	SPACERS NUMBER	14										16										18				
QUANTITIES	CONCRETE: CY PER LIN. FT.	40	44	51	54	43	48	55	57	47	50	58	62	54	60	66	71	78	89	61	70	78	88			
	REINF. LBS. PER LIN. FT.	61	60	68	75	63	65	77	87	69	67	74	70	70	80	91	73	78	92	112	127	81	90			
HYDRAULICS	AREA A	20					25					24					30					36				
	HYDRAULIC RADIUS R	1.11					1.25					1.20					1.36					1.50				
	NEUTRAL SLOPE %	.67					.73					.59					.62					.66				
	HEAD FACTOR K	.39					.34					.358					.303					.271				
	ENTRANCE CAPACITY Q ₁₀	123					172					148					207					272				
	DESIGN DISCHARGE Q ₁₀₀	203					284					244					341					448				

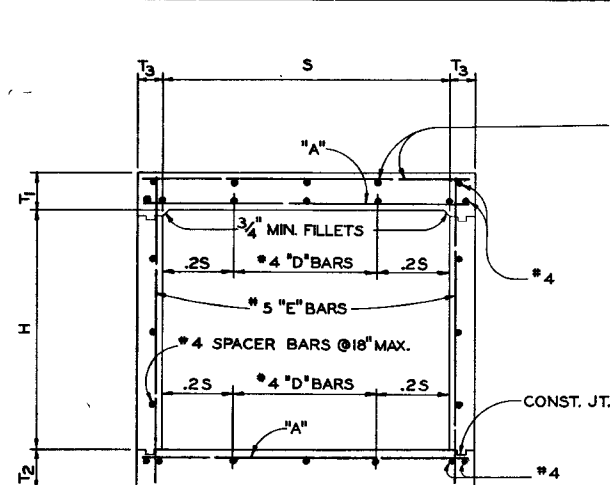
NOTE:

FOR BOXES OF HEIGHT LESS THAN THAT SHOWN IN TABLE, USE NEXT GREATER TABLE HEIGHT SLABS, WALL DIMENSIONS AND REINFORCING STEEL, AND MAKE NECESSARY CHANGES IN BAR LENGTHS, NUMBER OF SPACERS AND QUANTITIES.

SPAN		7'			8'			10'			12'		
HEIGHT		4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'
CONC.	MAX. FILL OVER TOP	16	26	35	46	55	66	77	88	99	110	121	132
	TOP SLAB	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2	13 1/2	14 1/2	15 1/2	16 1/2	17 1/2	18 1/2
	BOTTOM SLAB	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2	13 1/2	14 1/2	15 1/2	16 1/2	17 1/2	18 1/2
REINFORCING STEEL	SIZE: BAR #	5	5	5	5	5	5	5	5	5	5	5	5
	SPACING	9	7	9	7	9	7	9	7	9	7	9	7
	LENGTH	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8
QUANTITIES	TOP SLAB-NO. OF	7	3	3	3	3	3	3	3	3	3	3	3
	BOT. SLAB-NO. OF	3	3	3	3	3	3	3	3	3	3	3	3
	SPACERS	18	17	13	11	18	12	8 1/2	6 1/2	18	18	17	13
HYDRAULICS	CONCRETE: CY PER LIN. FT.	51	60	68	75	82	89	96	103	110	117	124	131
	REINF. LBS. PER LIN. FT.	114	138	143	168	175	190	204	219	233	248	262	277
	AREA	28	35	42	49	56	63	70	77	84	91	98	105
HYDRAULICS	HYDRAULIC RADIUS R	1.27	1.46	1.62	1.75	1.87	2.00	2.13	2.26	2.39	2.52	2.65	2.78
	NEUTRAL SLOPE %	0.54	0.57	0.61	0.64	0.67	0.70	0.73	0.76	0.79	0.82	0.85	0.88
	HEAD FACTOR K	0.332	0.281	0.247	0.224	0.206	0.189	0.173	0.157	0.141	0.125	0.109	0.093
HYDRAULICS	ENTRANCE CAPACITY Q ₁₀	173	241	317	400	497	597	698	796	894	991	1088	1185
	DESIGN DISCHARGE Q ₁₀₀	285	398	523	659	807	967	1139	1314	1491	1670	1851	2034

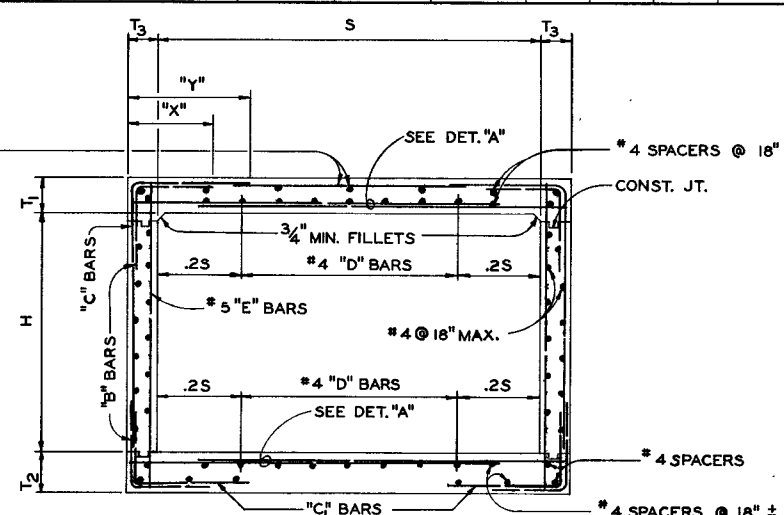
FED. ROAD DIV. NO.	STATE	PROJECT NO.	COUNTY	CONTROL SECTION	STATE ROUTE	SHEET NO.	TOTAL SHEETS
7	NEVADA						

NOTE: FOR GENERAL NOTES SEE SHEET I.

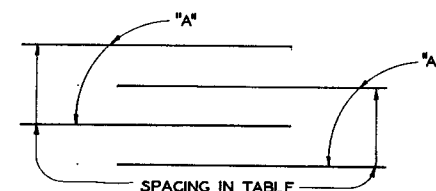


59343

TYPICAL SECTION 5' AND 6' SPANS



TYPICAL SECTION 7' THRU 12' SPANS



DETAIL "A"

107 V 3834

STATE OF NEVADA
DEPARTMENT OF HIGHWAYS

109

STANDARD SINGLE BOX CULVERTS

(66)

APPROVED BY: *Robert T. B...*