TABLE I NOTE:

Welded wire reinforcement areas provided in Table I represent the largest reinforecement areas for each precast culvert span "S" and the corresponding vertical rise "R" for fill height of 2 feet to less than 10 feet.

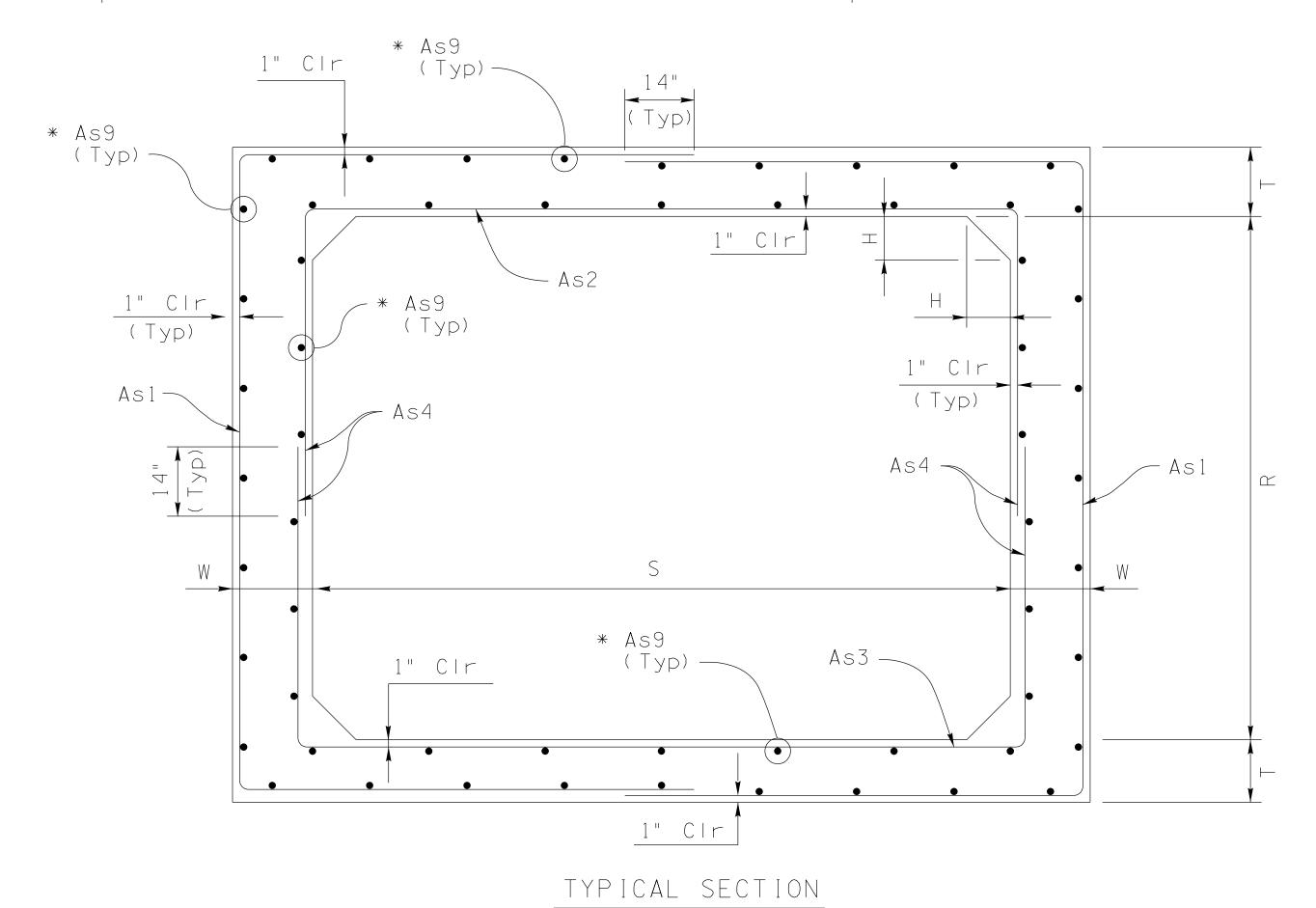
TABLE II NOTE:

Welded wire reinforcement areas provided in Table II represent the largest reinforecement areas for each precast culvert span "S" and the corresponding vertical rise "R" for fill height of 10 feet to no more than 20 feet.

TABLE NO. I												
2' TO LESS THAN 10' FILL HEIGHT												
		Slab "T"	Walls "W"	Haunch	Welded Wire Reinforcement							
Span	Rise "R"				Circumferential Areas							
" S"					Square inch / Foot							
				**	A _{s1}	A _{s2}	A_{s3}	A _{s4}				
6	3'	7"	7"	. 7"	0.21	0.24	0.19	0.17				
	4'	7"	7"		0.19	0.27	0.21	0.17				
	5'	7"	7"		0.17	0.30	0.24	0.17				
	6'	7"	7"		0.17	0.32	0.26	0.17				
8'	3'	8"	8"	8 =	0.35	0.29	0.28	0.19				
	4'	8"	8"		0.31	0.34	0.32	0.19				
	5'	8"	8"		0.28	0.37	0.35	0.19				
	6'	8"	8"		0.25	0.40	0.38	0.19				
	7'	8"	8"		0.23	0.43	0.41	0.19				
	8'	8"	8"		0.21	0.45	0.44	0.19				
	3'	10"	10"	10"	0.42	0.31	0.27	0.24				
	4'	10"	10"		0.38	0.35	0.30	0.24				
	5'	10"	10"		0.35	0.39	0.34	0.24				
1.01	6'	10"	10"		0.32	0.42	0.37	0.24				
10'	7'	10"	10"		0.30	0.45	0.40	0.24				
	8'	10"	10"		0.27	0.47	0.43	0.24				
	9'	10"	10"		0.26	0.50	0.46	0.24				
	10'	10"	10"		0.25	0.52	0.48	0.24				
12'	8'	12"	12"	12"	0.33	0.49	0.42	0.29				
	9'	12"	12"		0.30	0.51	0.45	0.29				
	10'	12"	12"		0.29	0.54	0.48	0.29				
	11'	12"	12"		0.29	0.56	0.51	0.29				
	12'	12"	12"		0.29	0.59	0.53	0.29				
•			<u> </u>	•		° _	.l °					

TABLE NO. II												
10' TO NO MORE THAN 20' FILL HEIGHT												
					Welded Wire Reinforcement Circumferential Areas							
				Haunch	Square inch / Foot							
" S"	" R"	" T"	" W"	" H"	340	Jare III	CII / F()				
				**	A _{s1}	A _{s2}	A _{s3}	A _{s4}				
	3'	7"	7"	7"	0.28	0.31	0.31	0.17				
6'	4'	7"	7"		0.24	0.34	0.35	0.17				
	5'	7"	7"		0.20	0.37	0.38	0.17				
	6'	7"	7"		0.18	0.38	0.39	0.17				
	3'	8"	8"	8"	0.51	0.43	0.44	0.19				
8'	4'	8"	8"		0.44	0.48	0.49	0.19				
	5'	8"	8"		0.39	0.52	0.54	0.19				
	6'	8"	8"		0.36	0.55	0.57	0.19				
	7'	8"	8"		0.33	0.57	0.60	0.19				
	8'	8"	8"		0.31	0.59	0.62	0.19				
	3'	10"	10"	10"	0.68	0.48	0.49	0.24				
	4'	10"	10"		0.61	0.54	0.55	0.24				
10'	5'	10"	10"		0.55	0.59	0.61	0.24				
	6'	10"	10"		0.50	0.63	0.65	0.24				
	7'	10"	10"		0.46	0.67	0.69	0.24				
	8'	10"	10"		0.43	0.69	0.72	0.24				
	9'	10"	10"		0.40	0.71	0.75	0.24				
	10'	10"	10"		0.38	0.73	0.77	0.24				
12'	8'	12"	12"	12"	0.57	0.78	0.81	0.29				
	9'	12"	12"		0.53	0.81	0.85	0.29				
	10'	12"	12"		0.51	0.84	0.88	0.29				
	11'	12"	12"		0.48	0.84	0.91	0.29				
	12'	12"	12"		0.46	0.87	0.93	0.29				

** In lieu of performing a special design, for the specific case where the actual haunch dimensions are larger than the standard dimensions and vertical and horizontal haunch dimensions are equal, the As1 steel area shall be increased by 1 percent for every 5 percent increase in the haunch dimension over that specified in Tables I and II.



GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 8th Edition 2017.

Precast reinforced concrete box culverts sections shown conform to ASTM C1577-20.

Sections shown in tables 1 and 2 were designed for combined earth, dead load, and HL-93 live load without Lane Load as permitted by the AASHTO LRFD Bridge Design Specifications, using either the design Truck or the design Tandem and taking the controlling case.

All Concrete shall be Class "S" (f'c = 5,000 psi).

All reinforcing steel shall consist of welded wire reinforcement conforming to ASTM A1064/A1064M (AASHTO M 336).

Circumferential reinforcement area shown in Tables I and II are based solely on the use of welded wire reinforcement with 4 inch spacing of the circumferential wires.

Longitudinal distribution reinforcement A_{s9} is based on a D4.0 welded wire reinforcement with a 8" center to center spacing, and a minimum cross-sectional area of 0.03 in $^{2}/_{1}$ ft.

All circumferential reinforcing steel shall have a 1 inch clear cover unless noted otherwise.

Compact backfill for footing and wall base minimum 100 percent of ASTM D698 maximum dry density.

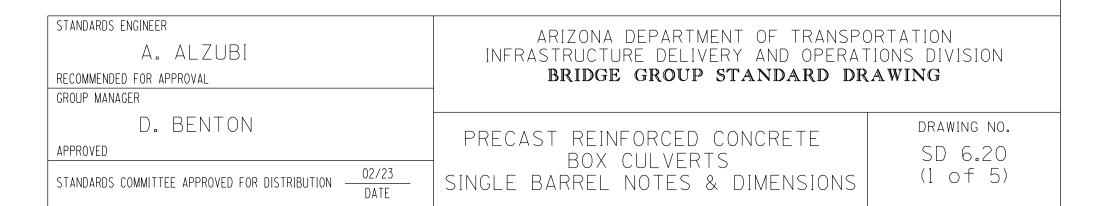
See Project Plans for wall layout, top of footing and finished grade elevations, footing step and wall joint locations. Construction Joints shall match the locations of weakened plane joints.

Shop Drawings shall be provided for Precast box culverts showing dimensions and details of each box section type, joint ends, seals, lifting devices, full layout plan, box section numbering, and placement sequence.

See Special Provisions for additional requirements for leveling course material, installation, structural excavation and structure backfill.

Pay item measure of linear foot of precast concrete culvert shall be along the central axis of the culvert per barrel, and shall include the length of joints and connections.

Dimensions shall not be scaled from drawings.



* See General Notes for As9 spacing