



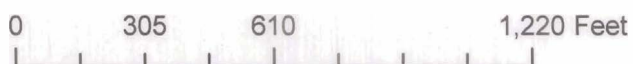
United States Department of Agriculture
Farm Service Agency

Twin Falls FSA Office

3 Earthen Ponds
30' x 50'



Farm #3921
Tract 31692



May 05, 2009

COORDINATE 1 : CULVERTS

Free Outlet

With Water Surface at Inlet Same Elevation as Top of Pipe, and Outlet Submerged.

Values are in Cubic Feet per Second

DIAMETER OF PIPE, IN INCHES

Slope in
Per cent

8	10	12	15	18	21	24	27	30	36	42	48	54	60	66	72	78	84
0.2	0.4	0.6	1.0	2.0	3.1	4.7	6.8	12	20	25	36	47	67	85	110	130	150
0.3	0.5	0.8	1.3	2.4	3.9	5.9	8.3	15	25	37	53	72	97	120	150	190	230
0.4	0.5	0.9	1.5	2.8	4.4	6.8	9.5	17	28	42	62	83	110	140	180	220	270
0.5	0.6	1.0	1.7	3.0	4.9	7.5	10.	19	31	46	68	90	120	150	190	240	290
0.6	0.6	1.1	1.9	3.3	5.4	8.1	11.	21	33	50	72	97	130	160	210	250	300
0.8	0.8	1.2	2.1	3.7	6.1	9.0	13.	23	37	55	77	100	140	180	220	270	320
1.0	0.8	1.4	2.3	4.0	6.5	9.6	14	24	39	57	80	110	140	180	230	280	330
1.2	0.8	1.5	2.4	4.3	6.8	10.	14	25	40	59	82	110	150	190	230	280	330
1.4	0.9	1.6	2.5	4.4	7.0	10	15	25	40	59	83	110	150	190	230	280	330
1.6	0.9	1.6	2.6	4.5	7.1	10	15	26	40	59	83	110	150	190	230	280	330
1.8	0.9	1.6	2.6	4.6	7.1	11	15	26	40	59	83	110	150	190	230	280	330
2.0	0.9	1.6	2.6	4.6	7.1	11	15	26	40	59	83	110	150	190	230	280	330
2.2	0.9	1.6	2.6	4.6	7.1	11	15	26	40	59	83	110	150	190	230	280	330
2.4	0.9	1.6	2.6	4.6	7.1	11	15	26	40	59	83	110	150	190	230	280	330

Note: The values in bold face type indicate discharge at the approximate "critical slope," beyond which the discharge remains constant for any given size culvert.

The total of heavy lines horizontal beginning at the left and reading upward and to the right approximate velocities of 2, 4, 6, 8 and 10 feet per second.

Culvert Across River Road 28" WATER TO CONVEY 5 CFS. + 66 TCS AND 100 TCS.
WITH A 1% Slope (which is very minimal) AND 28" 7.07 CFS.
Culvert it would handle approximately 30 CFS. More than enough.