

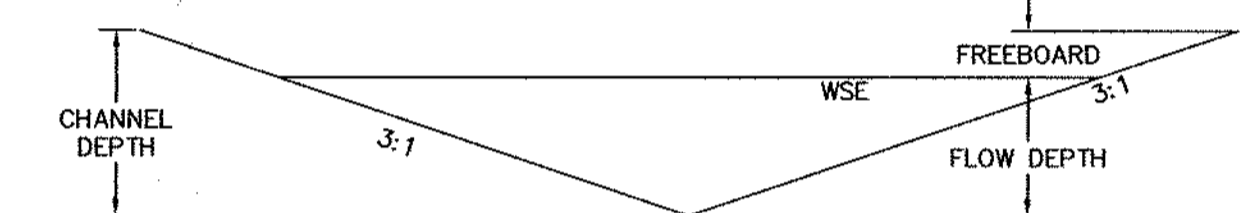
100-Year Storm Runoff (Interim)

Basin	Design Point	Area (Acres)	Tc (Min.)	100 Intensity (In./hr.)	100 Comp. C	100 Q (cfs)
A	1	33.37	11.68	6.62	0.25	55.2
A-1	1	9.08	10.82	6.84	0.25	15.5
C	3	13.09	10.68	6.88	0.25	22.5
F	6	14.25	11.13	6.76	0.25	24.1
G	7	1.73	9.95	7.09	0.25	3.1
O	15	12.36	10.57	6.91	0.25	21.4
O-1	15	7.70	10.77	6.86	0.25	13.2
Q	17	4.51	10.04	7.06	0.25	8.0
R	18	11.17	10.68	6.88	0.25	19.2

Routed Flows

A, A-1	21	42.45	18.27	5.34	0.25	56.6
O, O-1	22	20.06	17.54	5.45	0.25	27.3

TYPICAL SECTION: DRAINAGE SWALE NTS

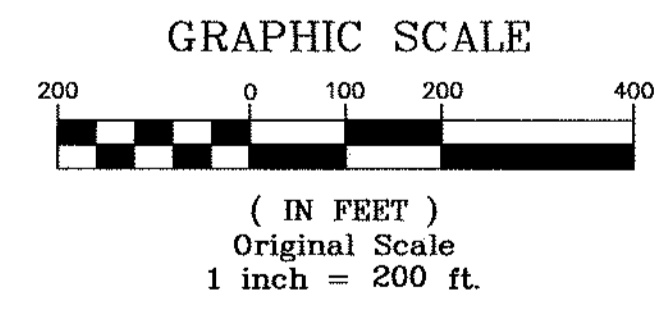


Swale Section	Q(100) cfs	Slope %	Channel Depth ft	Channel Capacity cfs	Flow Depth ft	Freeboard ft
A	15.5	1.63	2.00	73.5	1.12	0.88
B	55.2	1.92	3.33	311.1	1.74	1.59
C	22.5	0.79	2.00	51.1	1.47	0.53
D	13.2	2.88	2.00	97.6	0.95	1.05
E	21.4	1.92	2.00	79.8	1.22	0.78
F	24.1	1.08	2.00	59.8	1.42	0.58
G	19.2	2.96	2.00	99.0	1.08	0.92

Assumptions: n = 0.030

LEGEND

- SUB-BASIN BOUNDARY
- EXISTING CONTOUR
- PROPOSED STORM DRAIN PIPE
- PROPOSED INLET
- PROPOSED MANHOLE
- △ DESIGN POINT
- SUB BASIN DESIGNATION
- SUB BASIN "C" COEFFICIENTS
- SUB BASIN AREA (ACRES)
- FLOW DIRECTION



NOTES:
 1. SEE EXISTING DRAINAGE BASIN MAP FOR EXISTING DRAINAGE CONDITIONS.
 2. SEE PROPOSED DRAINAGE BASIN MAP FOR PROPOSED DRAINAGE CONDITIONS.
 3. FOR ULTIMATE INTERSECTION DRAINAGE DETAILS, SEE PROPOSED DRAINAGE BASIN MAP.



INTERIM DRAINAGE BASIN MAP

SCALE: HORIZONTAL _____ VERTICAL _____	REVISIONS: NO. DESCRIPTION DATE	ENGINEER: Matrix Design Group, Inc. 2925 Professional Place, Suite 202 Colorado Springs, CO 80904 Phone 719-575-0100 Fax 719-575-0208	PROJECT <u>BRIARGATE CROSSING WEST</u>
			CITY PROJECT NO. _____
BENCHMARK: _____	DESIGNED BY: <u>AMH</u> DATE: <u>JULY, 2003</u>	DRAWN BY: <u>AMH</u> DATE: <u>JULY, 2003</u>	DRAINAGE BASIN <u>PINE CREEK DRAINAGE BASIN</u>
	CHECKED BY: <u>JCM</u> DATE: <u>JULY, 2003</u>		JOB NO. <u>03.104.013</u> SHEET <u>1</u> OF <u>1</u>