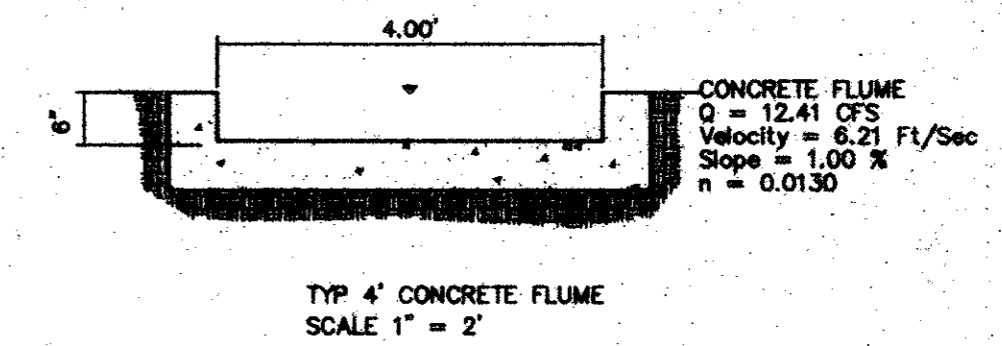


AREA	ACRES	C	Tc	I(100)	Q(100)
A	11.5	0.90	1.1	8.8	50.6
B	0.3	0.90	1.1	10.5	3.2
C	0.3	0.90	1.67	10.5	3.2
D	0.27	0.90	1.1	10.5	2.55
E	0.27	0.90	1.1	10.5	2.55
F	0.27	0.90	1.1	10.5	2.55
G	0.34	0.90	1.6	10.5	3.21
H	0.50	0.90	2.00	10.5	4.72
I	0.1	0.90	0.9	10.5	0.95
J	0.50	0.90	2.00	10.5	4.72
K	0.1	0.90	0.9	10.5	0.95
L	3.4	0.90	4.16	10.5	35.7
M	3.0	0.90	4.42	10.5	31.5



GRATE INLET FLOW CALCULATION

$$Q = 4.86 A y^{3/2}$$

WHERE:
 Q = FLOW INTO INLET(CFS)
 A = AREA OF OPENING IN GRATES(SQ.FT.)
 Y = DEPTH OF WATER ABOVE INLET(FT.)
 2-4"x4" INLETS FOR AREA'S L AND M 3"x3" INLETS
 $35.7 = 4.86 \times 5.94 y^{3/2}$ $4.72 = 4.86 \times 5.94 y^{3/2}$
 $y = 0.34'$ $y = 0.16'$

CURB INLET FLOW CALCULATION

$$Q = 3.0 n L y^{3/2}$$

WHERE:
 Q = FLOW INTO INLET(CFS)
 A = AREA OF OPENING IN GRATES(SQ.FT.)
 Y = DEPTH OF WATER ABOVE INLET(FT.)
 2-4"x4" INLETS FOR AREA'S L AND M
 $3.0 \times 14 \times 0.5^{3/2}$
 $Q = 14.85$ CFS
 THE REMAINING DISCHARGE FROM ADDISON ROAD WILL
 FLOW OVER THE TOP OF THE CURB INTO THE DETENTION POND.