

APPENDIX B - TABLES

TABLE 1- DRAINAGE AREA SUMMARY
 TRIBUTARY TO BRADDOCK RUN

Area	Acreage	Existing CN	Ultimate CN	t_c (hrs.)
1.	15.05	79.4	81.9	0.09
2.	8.04	78.0	82.0	0.15
3.	37.05	75.0	79.7	0.23
4.	31.69	74.3	78.5	0.30
5.	33.40	72.2	78.3	0.32
6.	20.41	71.0	76.6	0.08
7.	36.42	73.6	77.8	0.21
8.	65.21	74.1	77.6	0.30
9.	18.75	80.5	85.1	0.31
Total Acreage	267.85			
Weighted CN		74.6	78.9	

TABLE 2-TRIBUTARY TO BRADDOCK RUN

Structure No.	Location	Description	From Surveys	From Field Reconnaissance
	<u>Main Stream</u>			
1	Oaklawn Avenue	36" RCP	X	
2	Station 12+10	36" RCP	X	
3	U.S. Route 40	48" RCP	X	
4	Station 31+90	18" RCP		X
	<u>Tributary No. 1</u>			
5	Station 0+00 to Parkside Blvd.	Culvert Stream 18" RCP		X
	<u>Tributary No. 2</u>			
6	Station 0+70	18" CMP		X
7	Weires Avenue to Harold Street	12" CMP		X
	<u>Tributary No. 4</u>			
8	Weires Avenue	24" RCP		X

TABLE 3

TRIBUTARY TO BRADDOCK RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₁₀₀	WSEL ₁₀₀
30.0	174	852.9	467	853.5	832	854.0	244	853.1	565	853.7	946	854.2	946	854.2
31.0		859.4		860.2		860.7		859.6		860.3		860.8		860.8
31.1		865.1		865.2		865.6		865.0		865.2		865.7		865.7
33.1		872.3		872.8		873.2		872.4		872.9		873.2		873.2
33.2		873.2		874.6		875.7		873.6		875.1		876.0		876.0
33.3		879.0		879.2		879.6		879.0		879.3		879.7		879.7
33.4		879.5		880.3		880.9		879.7		880.5		881.0		881.0
33.5		882.3		882.9		883.3		882.4		883.0		883.3		883.3
34.1	185	882.7	468	883.4	821	883.9	253	882.9	563	883.6	931	884.1	931	884.1
34.2		883.8		884.6		885.1		884.1		884.7		885.2		885.2
36.0		885.0		886.5		887.3		885.6		886.8		887.5		887.5
36.1		895.0		897.4		898.7		896.0		897.9		898.9		898.9
37.0	117	903.4	282	904.1	476	904.6	161	903.8	338	904.3	543	904.7	543	904.7
38.0	87	919.6	210	920.0	360	920.4	113	919.7	249	920.1	405	920.5	405	920.5
38.1		928.8		929.3		929.6		928.9		929.3		929.7		929.7

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TRIBUTARY TO BRADDOCK RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet	
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀		Q ₁₀₀
37.1	21	953.0	60	953.6	110	953.8	21	953.0	60	953.6	110	953.8
37.2		969.6		970.1		970.3		969.6		970.1		970.3
38.2	29	958.7	63	959.0	103	959.3	33	958.7	69	959.0	110	959.3
38.3		978.6		978.9		979.2		978.6		979.0		979.2
38.4	37	958.3	86	958.6	142	958.8	37	958.3	86	958.6	154	958.9
38.5		978.8		979.1		979.3		978.8		979.1		979.4
38.6	58	958.0	148	958.3	259	958.5	58	958.0	148	958.3	295	958.6
38.7		983.8		984.2		984.4		983.8		984.2		984.5

TRIBUTARY TO BRADDOCK RUN
 TABLE 4 - FLOOD DAMAGE ESTIMATES EXISTING CONDITIONS

* ITEMIZED LOSSES	* 2-YEAR STORM * EXISTING CONDITONS	* 10-YEAR STORM * EXISTING CONDITIIONS	* 100-YEAR STORM * EXISTING CONDITIONS
* PRIVATE LOSSES			
* -STRUCTURES	* \$ 13,624	* \$ 16,456	* \$ 25,439
* -CONTENTS	* 4,871	* 5,943	* 17,519
* -EXTERIOR PROPERTIES	* 2,600	* 5,500	* 12,750
* -VEHICLES	* 3,000	* 6,000	* 12,000
* TOTAL PRIVATE LOSSES	* \$ 24,095	* \$ 33,899	* \$ 67,708
* PUBLIC LOSSES			
* -EMERGENCY POLICE SERVICES	* \$ 435	* \$ 435	* \$ 870
* -CITY CLEAN-UP SERVICES	* 944	* 944	* 2208
* -UTILITIES REPAIR SERVICES	* 300	* 300	* 600
* TOTAL PUBLIC LOSSES	* \$ 1,679	* \$ 1,679	* \$ 3,678
* ABSTRACT LOSSES			
* -LOST WAGES	* \$ 960	* \$ 1,320	* \$ 3,600
* -EXTRA MILEAGE COST	* 0	* 0	* 0
* TOTAL ABSTRACT LOSSES	* \$ 960	* \$ 1,320	* \$ 3,600
* TOTAL OF ALL LOSSES	* \$ 26,734	* \$ 36,898	* \$ 74,986
* AVERAGE ANNUAL DAMAGES = .45(2-YEAR TOTAL)+.245(10-YEAR TOTAL)+.055(100-YEAR TOTAL)= \$ 25,195			
* PRESENT VALUE OF THE AVERAGE ANNUAL DAMAGES(TAKEN FOR 30 YEARS AT AN INTEREST RATE OF 8%)= \$ 283,635			

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TRIBUTARY TO BRADDOCK RUN
TABLE 5- FLOOD DAMAGE ESTIMATES ULTIMATE CONDITIONS

* ITEMIZED LOSSES	* 2-YEAR STORM * ULTIMATE CONDITIONS	* 10-YEAR STORM * ULTIMATE CONDITIONS	* 100-YEAR STORM * ULTIMATE CONDITIONS	*
* PRIVATE LOSSES	*	*	*	*
* -STRUCTURES	* \$ 14,889	* \$ 20,277	* \$ 32,339	*
* -CONTENTS	* 5,231	* 9,143	* 27,919	*
* -EXTERIOR PROPERTIES	* 2,600	* 5,500	* 12,750	*
* -VEHICLES	* 3,000	* 6,000	* 12,000	*
* TOTAL PRIVATE LOSSES	* \$ 25,720	* \$ 40,920	* \$ 85,008	*
* PUBLIC LOSSES	*	*	*	*
* -EMERGENCY POLICE SERVICES	* \$ 435	* \$ 435	* \$ 870	*
* -CITY CLEAN-UP SERVICES	* 944	* 944	* 2208	*
* -UTILITIES REPAIR SERVICES	* 300	* 300	* 600	*
* TOTAL PUBLIC LOSSES	* \$ 1,679	* \$ 1,679	* \$ 3,678	*
* ABSTRACT LOSSES	*	*	*	*
* -LOST WAGES	* \$ 960	* \$ 1,320	* \$ 3,600	*
* -EXTRA MILEAGE COST	* 0	* 0	* 0	*
* TOTAL ABSTRACT LOSSES	* \$ 960	* \$ 1,320	* \$ 3,600	*
* TOTAL OF ALL LOSSES	* \$ 28,359	* \$ 43,919	* \$ 92,286	*
* AVERAGE ANNUAL DAMAGES = .45(2-YEAR TOTAL)+.245(10-YEAR TOTAL)+.055(100-YEAR TOTAL)=	*	*	* \$ 28,597	*
* PRESENT VALUE OF THE AVERAGE ANNUAL DAMAGES (TAKEN FOR 30 YEARS AT AN INTEREST RATE OF 8%)=	*	*	* \$ 321,944	*

Table 6. FLOOD MANAGEMENT ALTERNATIVES

TRIBUTARY TO BRADDOCK RUN WATERSHED

House ID Code	Base-ment	100-Year Flood Elevation in Relationship to 1st Floor Elevation	100-Year Flood Depth Around Foundation or Basement Equal To or Greater Than One Foot	ALTERNATIVES				Comments
				Flood Proof	Flood Insur.	Purchase Candidate	Structural Improvements	
A B C	X X X	0 -3.5 -5.5	- - -	X X	X X	X	Replace Oaklawn Ave. culvert with two 60" RCP's for the 2-year storm (\$106,000). Not economically justified.	
D		-						FF above flood elevation
E E-3	X	0 -4.0	-	X	X X		Replace Route 40 culvert with two 48" RCP's for the 2-year storm (\$90,000). Not economically justified.	
F G H I J K L M N O P Q R S		- - - - - - - - - - - - -						FF above flood elevation Out of flood zone Out of flood zone Out of flood zone Out of flood zone Out of flood zone Out of flood zone Out of flood zone Out of flood zone Out of flood zone Out of flood zone Out of flood zone
D-1 D-2 D-3		- 1.0 -			X			FF above flood elevation FF above flood elevation
E-2		-						Out of flood zone
F-1 F-2 F-3	X X X	- -1.5 -	- - -	X	X			Basement above flood elevation Basement above flood elevation
F-4 G-1 H-1	X	-2.5 - -	-	X	X			FF above flood elevation FF above flood elevation
Tributary No. 1 at Parkside Boulevard		Overland flow in residential areas and down roads					Stormwater management pond (\$20,000). Not economically justified.	