

### HYDRAULIC SUMMARY

LAKE/BASIN	PEAK FLOW (CFS)	MAX STORAGE (AC-FT)	MAX WATER SURFACE ELEV (FEET)
A	4.23	0.214	448.90
B	4.50	0.218	448.63
C	21.67	0.507	448.39
D	31.57	1.520	448.06
E	31.97	0.272	447.40
F	3.43	0.422	446.31
G	37.11	1.406	446.33

MAXIMUM OUTFLOW FROM SITE = 37.11 CFS  
 MAXIMUM ALLOWABLE 10 YEAR OUTFLOW = 45 CFS  
 TOTAL STORMWATER STORAGE NEEDED PER THIS ANALYSIS = 4.56 AC-FT  
 TOTAL STORMWATER STORAGE AVAILABLE IN BASINS = 6.65 AC-FT  
 TOTAL STORMWATER STORAGE REQUIRED PER ORDINANCE = 3.42 AC-FT

\* Note Elevations Denote I.E. Smaller  
 Pipe Placed Between 48" Lowhead  
 Sections I.E. Of 48" Lowhead Sections  
 Noted in Remarks Column.

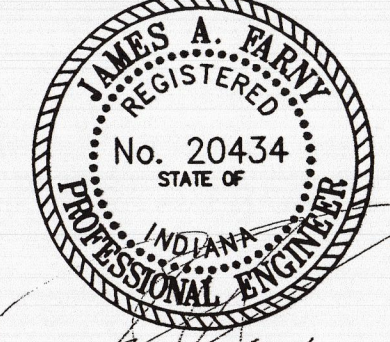
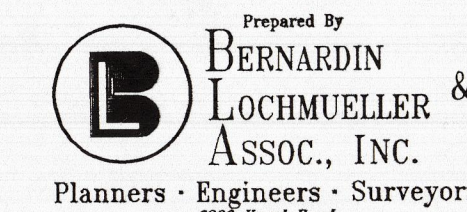
### STORM SEWER STRUCTURE DATA TABLE

Str. No.	Str. Type	Northing	Eastng	Upstrm. E	Dwnstrm. E	*Pipe Length	Pipe Size	Remarks
100	Manhole	10019.247719	10477.940810	448.92	447.00	95'	18"	Rim 453.25 (RCP Only)
101	E-7 Area Drain	10051.537002	10670.284023	448.00	447.00	32'	12"	Rim 451.00
102	12" End Sect.	10088.225206	10643.405021	447.00	(-)	(-)	12"	
103	E-7 Area Drain	10040.84808	10361.3448	447.25	447.00	28'	12"	Rim 449.75
104	12" End Sect.	10068.320008	10374.800623	447.00	(-)	(-)	12"	
105	48" Lowhead	10122.203557	10540.692524	(-)	(-)	(-)	(-)	Lowhead I.E. 445.80
106	48" Lowhead	10130.203143	10540.802204	(-)	(-)	(-)	(-)	Lowhead I.E. 445.80
107	J-10 Inlet	10130.282431	10535.805985	447.86	447.00	1'	12"	Gutter 450.66
108	48" Lowhead	10123.435822	10478.697782	447.00	447.00	56'	18"	Lowhead I.E. 445.80 (RCP Only)
109	48" Lowhead	10131.454735	10478.823903	(-)	(-)	(-)	(-)	Lowhead I.E. 445.80
110	J-10 Inlet	10131.174900	10481.804545	447.86	447.00	1'	12"	Gutter 450.66
111	J-10 Inlet	10329.116768	10487.809613	448.50	448.05	90'	12"	Rim 449.09 (RCP Only)
112	C-10 Inlet	10327.114671	10529.201462	446.05	446.00	19'	12"	Gutter 448.27
113	48" Lowhead	10330.079453	10581.344066	445.00	445.00	36'	18"	Lowhead I.E. 444.30 (RCP Only)
114	48" Lowhead	10329.971543	10589.343352	444.50	444.50	36'	30"	Lowhead I.E. 444.30 (RCP Only)
115	48" Lowhead	10370.127303	10570.011479	(-)	(-)	(-)	(-)	Lowhead I.E. 444.30
116	J-10 Inlet	10367.397191	10525.541416	446.05	446.00	33'	12"	Gutter 448.27
117	48" Lowhead	10370.259745	10582.012565	(-)	(-)	(-)	(-)	Lowhead I.E. 444.30
118	E-7 Area Drain	10379.193984	10709.702226	447.75	447.40	16'	12"	Rim 451.00
119	J-10 Inlet	10365.677275	10767.002298	447.40	447.25	26'	15"	Gutter 449.90 (RCP Only)
120	J-10 Inlet	10334.681315	10766.545637	447.25	447.00	18'	15"	Gutter 449.90
121	15" End Sect.	10323.382786	10756.134855	447.00	(-)	(-)	15"	
122	E-7 Area Drain	10375.106471	11034.575383	449.00	448.90	16'	12"	Rim 450.50
123	J-10 Inlet	10359.798251	11028.973349	448.90	448.70	28'	15"	Gutter 451.72 (RCP Only)
124	J-10 Inlet	10350.901591	11026.325689	448.70	448.60	16'	15"	Gutter 451.72
125	15" End Sect.	10359.520982	11016.059097	448.00	(-)	(-)	15"	
126	15" End Sect.	10410.257120	11359.982576	453.50	450.50	120'	15"	(RCP Only)
128	Manhole	10298.394239	11360.193272	450.00	449.90	16'	36"	Rim 456.30
129	36" End Sect.	10299.305337	11344.219873	449.90	(-)	(-)	36"	
130	48" Lowhead	10784.952047	10479.215434	444.50	444.50	37'	30"	Lowhead I.E. 444.30 (RCP Only)
131	48" Lowhead	10796.953133	10479.583592	445.00	445.00	37'	18"	Lowhead I.E. 444.30 (RCP Only)
132	J-10 Inlet	10707.707761	10474.339460	446.25	446.05	20'	12"	Gutter 448.57
133	48" Lowhead	10795.946595	10433.303555	(-)	(-)	(-)	(-)	Lowhead I.E. 444.30
134	48" Lowhead	10757.647310	10432.933445	(-)	(-)	(-)	(-)	Lowhead I.E. 444.30
135	C-10 Inlet	10699.857367	10394.195422	445.85	445.50	32'	12"	Gutter 448.35
136	J-10 Inlet	10649.423734	10393.657331	446.10	445.85	38'	12"	Gutter 448.35 (RCP Only)
137	J-10 Inlet	10646.917901	10129.437553	445.00	444.00	39'	12"	Gutter 448.80
138	48" Lowhead	10845.364258	10172.065255	(-)	(-)	(-)	(-)	Lowhead I.E. 442.80
139	48" Lowhead	10845.247949	10180.064541	444.00	444.00	44'	18"	Lowhead I.E. 442.80 (RCP Only)
140	J-10 Inlet	10895.392718	10130.064023	445.00	444.00	39'	12"	Gutter 448.80
141	48" Lowhead	10898.389545	10173.365312	(-)	(-)	(-)	(-)	Lowhead I.E. 442.80
142	48" Lowhead	10898.282630	10181.965598	(-)	(-)	(-)	(-)	Lowhead I.E. 442.80
143A	Area Drain	0982.659210	0526.817989	445.66	445.30	179'	18"	Rim 448.50
143B	18" End Sect.	0882.581817	10515.902927	445.00	(-)	(-)	(-)	
144	J-10 Inlet	0990.768918	10521.027305	445.76	445.66	11'	15"	Gutter 448.36 (RCP Only)
145	C-10 Inlet	1024.240398	10521.299505	445.95	445.76	31'	15"	Gutter 448.36 (RCP Only)
146	E-7 Area Drain	1101.026214	10526.299829	445.00	444.10	24'	12"	Rim 447.50
147	J-10 Inlet	11053.085521	10488.159998	446.40	446.10	42'	12"	Gutter 448.73
148	J-10 Inlet	11053.215038	10442.987043	446.80	446.40	40'	12"	Gutter 448.73 (RCP Only)
149	J-10 Inlet	11018.467129	10786.017723	447.00	446.80	28'	12"	Gutter 449.91 (RCP Only)
150	J-10 Inlet	0989.470471	10785.569985	446.80	446.75	10'	12"	Gutter 449.91
151	E-7 Area Drain	0978.971584	10785.420843	446.75	445.72	255'	18"	Rim 450.50
152	E-7 Area Drain	1009.486309	10997.778733	447.75	446.75	213'	15"	Rim 451.00 (RCP Only)
153	E-7 Area Drain	1291.491793	10468.234629	443.50	441.00	20'	15"	Rim 447.25
154	15" End Sect.	11310.150174	10473.198640	441.00	(-)	(-)	(-)	10 SYD Rip/Bap @ Outlet
157	Outlet Control	0883.0216	10199.8358	438.00	437.90	45'	30"	Rim 445.25 (HDPE)
158	42" End Sect.	11308.8719	10198.9476	438.00	(-)	(-)	(-)	30 SYD Rip/Bap @ Outlet
159	Area Drain	10034.8477	10088.7703	448.30	448.00	50'	12"	Rim 450.55
160	J-10 Inlet	10023.0317	10136.4441	448.00	447.25	228'	12"	Gutter 451.90
161	J-10 Inlet	10023.3941	10359.3638	450.00	447.25	18'	12"	Gutter 453.05

STRUCTURE NOS. 162-165 SHOWN ON SHEET NO. 11

# FINAL DRAINAGE PLAN

FOR  
**CASTLE CREEK SUBDIVISION**  
 VANDERBURGH COUNTY, INDIANA



PROJECT NO.: 197-0181-APD  
 DATE: 1/2/01

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