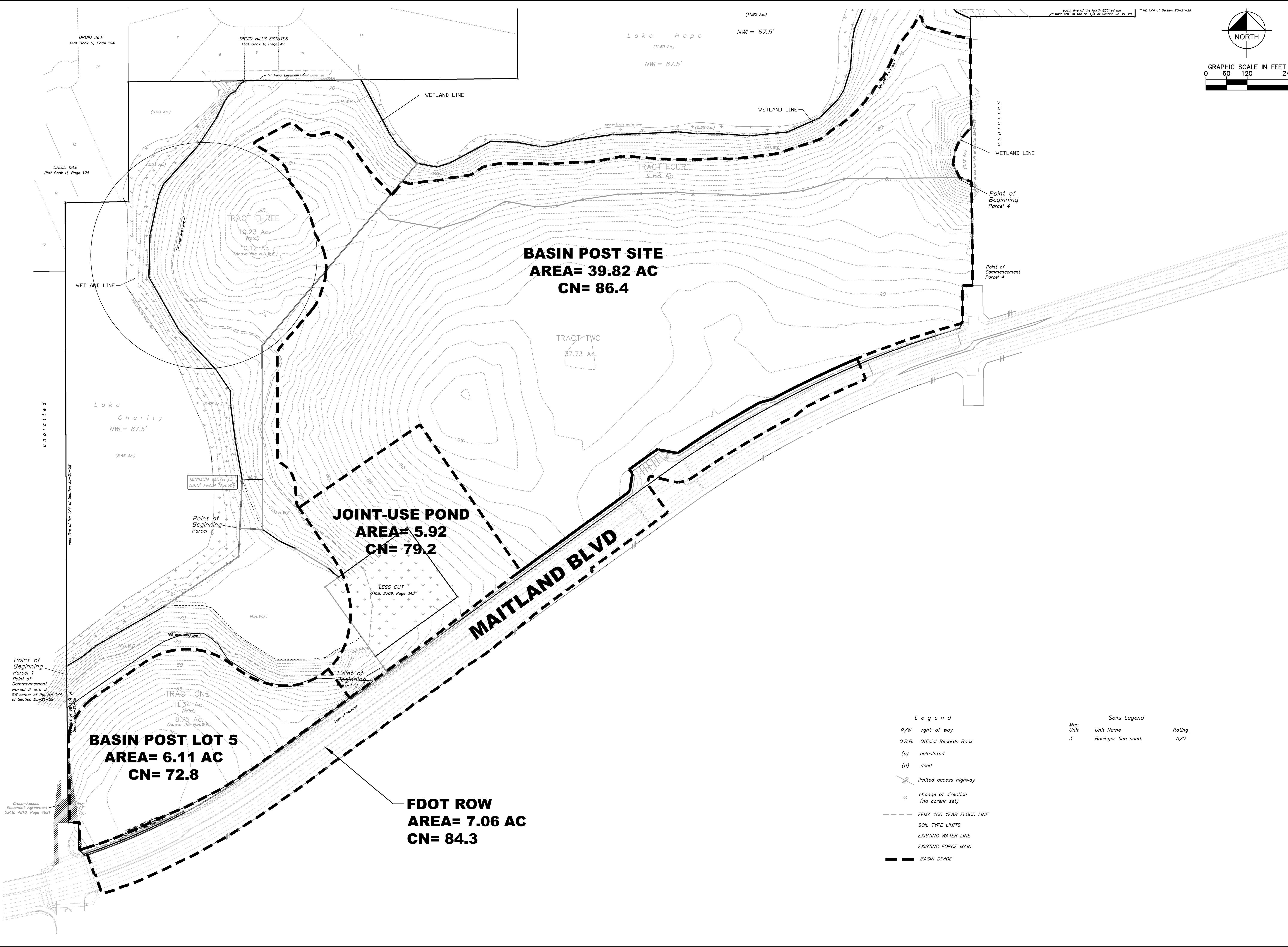


Plotted By: Ramasubramanian, Derek - Sheet Set: KHA - Layout: Layout 1 - March 23, 2016 - 02:07:26 PM - K:\VOP\CD\045183005-MCH-Master Development\SOCS\CADD\EXHIBITS\2016-03-23-KHA-Basin Post.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Review of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



MAITLAND CONCOURSE NORTH	CITY OF MAITLAND	FLORIDA	POST-DEVELOPMENT BASIN MAP EXHIBIT				LICENSED PROFESSIONAL		KHA PROJECT 1491830002		DATE 3/23/2016		SCALE AS SHOWN DESIGNED BY BAL		DRAWN BY BAL		CHECKED BY JAM		DATE:		REVISIONS		BY	
			BASIN MAP EXHIBIT																					
			BASIN MAP EXHIBIT																					

CURVE NUMBER WORKSHEET
POST-DEVELOPMENT COMPOSITE BASIN

Basin Area = 58.91 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
14.06	A	Cover > 75%	39	548.3
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
1.80	A,B,C,D	Pond NWL	100	180.0
43.05	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	4218.9

WEIGHTED CURVE NUMBER = 84.0

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

POST-DEVELOPMENT SITE BASIN

Basin Area = 39.82 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
7.88	A	Cover 50% to 75%	49	0.0
	A	Cover > 75%	39	307.3
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
0.56	A,B,C,D	Water	100	56.0
31.38	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	3075.2

WEIGHTED CURVE NUMBER = 86.4

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET
POST-DEVELOPMENT FDOT POND & LOT 3 BASIN

Basin Area = 5.92 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
1.93	A	Cover 50% to 75%	49	0.0
	A	Cover > 75%	39	75.3
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
1.24	A,B,C,D	Water	100	124.0
2.75	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	269.5

WEIGHTED CURVE NUMBER = 79.2

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET
POST-DEVELOPMENT FDOT ROW BASIN

Basin Area = 7.06 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
1.64	A	Cover 50% to 75%	49	0.0
	A	Cover > 75%	39	64.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
5.42	A,B,C,D	Water	100	0.0
	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	531.2
			WEIGHTED CURVE NUMBER =	84.3

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

POST-DEVELOPMENT LOT 5 BASIN

Basin Area = 6.11 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
2.61	A	Cover > 75%	39	101.8
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
		Water	100	0.0
3.50	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	343.0
			WEIGHTED CURVE NUMBER =	72.8

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

POND
REQUIRED TREATMENT VOLUME & STAGE/STORAGE
ON-LINE WET/DRY DETENTION (COMBINED)

Littoral Zone Provided?

NO

Discharge Directly to Class I, II, III or OFW?

NO

Basin Area = 58.91 acres

Impervious Area = 43.05 acres

1" of runoff over site = $[(\text{Basin Area})(1")]/12" = 4.91$ acre-ft.

OR

2.5" of runoff from imp. area = $[(\text{Imp Area})(2.5")]/12" = 8.97$ acre-ft.

TOTAL REQUIRED TREATMENT VOLUME =	8.969	acre-ft.
	390,679	CF
Required Treatment Volume at Elevation =	70.95	ft

Provided Treatment Volume =	8.970	acre-ft.
	390,733	CF
Provided Treatment Volume at Elevation =	70.95	ft

	Elevation (FT)	Feet	Area (SF)	Area (AC)	Avg. Area (SF)	Volume (CF)	Volume Sum (CF)	Volume Sum (Ac-Ft)
TOB	80	13.5	233,782	5.367		226,987	1,932,647	44.37
					226,987			
	79	12.5	220,192	5.055		213,472	1,705,660	39.16
					213,472			
	78	11.5	206,751	4.746		199,140	1,492,189	34.26
					199,140			
	77	10.5	191,528	4.397		184,308	1,293,049	29.68
					184,308			
	76	9.5	177,087	4.065		169,997	1,108,742	25.45
					169,997			
	75	8.5	162,907	3.740		156,079	938,745	21.55
					156,079			
	74	7.5	149,251	3.426		142,583	782,666	17.97
					142,583			
	73	6.5	135,914	3.120		128,463	640,083	14.69
					128,463			
	72	5.5	121,011	2.778		115,602	511,621	11.75
					115,602			
	71	4.5	110,193	2.530		105,274	396,019	9.09
					105,274			
NWL	70	3.5	100,354	2.304		95,659	290,745	6.67
					95,659			
	69	2.5	90,963	2.088		84,845	195,087	4.48
					84,845			
	68	1.5	78,726	1.807		75,233	110,242	2.53
					75,233			
	67	0.5	71,740	1.647		35,009	35,009	0.80
					70,019			
	66.5	0	68,297	1.568		0	0	0.00
					66,651			
	66	-0.5	65,005	1.492		33,326	33,326	0.77
					61,752			
	65	-1.5	58,498	1.343		61,752	95,077	2.18
					55,348			
	64	-2.5	52,198	1.198		55,348	150,425	3.45
					49,157			
	63	-3.5	46,115	1.059		49,157	199,582	4.58
					43,185			
	62	-4.5	40,255	0.924		43,185	242,767	5.57
					37,433			
BOTTOM	61	-5.5	34,611	0.795		37,433	280,200	6.43
					31,894			
	60	-6.5	29,177	0.670		31,894	312,094	7.16
					22,596			
	59	-7.5	16,015	0.368		22,596	334,690	7.68
					14,223			
	58	-8.5	12,430	0.285		14,223	348,912	8.01
					12,602			
	57	-9.5	12,774	0.293		12,602	361,514	8.30
					11,516			
	56	-10.5	10,257	0.235		11,516	373,030	8.56
					9,175			
	55	-11.5	8,093	0.186		9,175	382,205	8.77

POND
FDOT WET POND STAGE/STORAGE
ON-LINE WET DETENTION

	Elevation (FT)	Feet	Area (SF)	Area (AC)	Avg. Area (SF)	Volume (CF)	Volume Sum (CF)	Volume Sum (Ac-Ft)
TOB	80	13.5	109,291	2.509		107,166	1,004,901	23.07
					107,166			
	79	12.5	105,040	2.411		102,876	897,735	20.61
					102,876			
	78	11.5	100,712	2.312		97,546	794,859	18.25
					97,546			
	77	10.5	94,379	2.167		91,490	697,314	16.01
					91,490			
	76	9.5	88,600	2.034		85,775	605,824	13.91
					85,775			
	75	8.5	82,950	1.904		80,190	520,049	11.94
					80,190			
	74	7.5	77,430	1.778		74,736	439,859	10.10
					74,736			
	73	6.5	72,041	1.654		68,237	365,124	8.38
					68,237			
	72	5.5	64,433	1.479		62,496	296,887	6.82
					62,496			
	71	4.5	60,559	1.390		58,649	234,391	5.38
					58,649			
NWL	70	3.5	56,738	1.303		54,854	175,742	4.03
					54,854			
	69	2.5	52,970	1.216		51,114	120,888	2.78
					51,114			
	68	1.5	49,257	1.131		47,428	69,775	1.60
					47,428			
	67	0.5	45,598	1.047		22,347	22,347	0.51
					44,694			
	66.5	0	43,790	1.005		0	0	0.00
					42,893			
	66	-0.5	41,995	0.964		21,446	21,446	0.49
					40,222			
	65	-1.5	38,448	0.883		40,222	61,668	1.42
					36,698			
	64	-2.5	34,948	0.802		36,698	98,366	2.26
					33,234			
	63	-3.5	31,519	0.724		33,234	131,599	3.02
					29,841			
	62	-4.5	28,162	0.647		29,841	161,440	3.71
					26,518			
BOTTOM	61	-5.5	24,874	0.571		26,518	187,958	4.31
					23,265			
	60	-6.5	21,656	0.497		23,265	211,223	4.85
					20,082			
	59	-7.5	18,507	0.425		20,082	231,304	5.31
					16,972			
	58	-8.5	15,437	0.354		16,972	248,276	5.70
					13,989			
	57	-9.5	12,541	0.288		13,989	262,265	6.02
					11,551			
	56	-10.5	10,560	0.242		11,551	273,816	6.29
					9,698			
	55	-11.5	8,835	0.203		9,698	283,513	6.51

POND
PARK POND STAGE/STORAGE
ON-LINE WET DETENTION

	Elevation (FT)	Feet	Area (SF)	Area (AC)	Avg. Area (SF)	Volume (CF)	Volume Sum (CF)	Volume Sum (Ac-Ft)
TOB	80	13.5	88,748	2.037		85,863	723,711	16.61
					85,863			
	79	12.5	82,977	1.905		80,155	637,849	14.64
					80,155			
	78	11.5	77,332	1.775		74,571	557,694	12.80
					74,571			
	77	10.5	71,809	1.649		69,111	483,124	11.09
					69,111			
	76	9.5	66,413	1.525		63,773	414,013	9.50
					63,773			
	75	8.5	61,132	1.403		58,561	350,240	8.04
					58,561			
	74	7.5	55,989	1.285		53,486	291,680	6.70
					53,486			
	73	6.5	50,983	1.170		48,550	238,194	5.47
					48,550			
	72	5.5	46,117	1.059		43,696	189,644	4.35
					43,696			
	71	4.5	41,275	0.948		39,178	145,948	3.35
					39,178			
NWL	70	3.5	37,080	0.851		35,054	106,770	2.45
					35,054			
	69	2.5	33,028	0.758		31,249	71,716	1.65
					31,249			
	68	1.5	29,469	0.677		27,806	40,468	0.93
					27,806			
	67	0.5	26,142	0.600		12,662	12,662	0.29
					25,325			
	66.5	0	24,507	0.563		0	0	0.00
					23,759			
	66	-0.5	23,010	0.528		11,879	11,879	0.27
					21,530			
	65	-1.5	20,050	0.460		21,530	33,409	0.77
					18,650			
	64	-2.5	17,250	0.396		18,650	52,059	1.20
					15,923			
	63	-3.5	14,596	0.335		15,923	67,982	1.56
					13,345			
	62	-4.5	12,093	0.278		13,345	81,327	1.87
					10,915			
BOTTOM	61	-5.5	9,737	0.224		10,915	92,242	2.12
					8,629			
	60	-6.5	7,521	0.173		8,629	100,871	2.32
					6,488			
	59	-7.5	5,455	0.125		6,488	107,359	2.46
					4,525			
	58	-8.5	3,595	0.083		4,525	111,884	2.57

POND
LOT 5 DRY-POND STAGE/STORAGE
ON-LINE DRY DETENTION

	Elevation (FT)	Feet	Area (SF)	Area (AC)	Avg. Area (SF)	Volume (CF)	Volume Sum (CF)	Volume Sum (Ac-Ft)
TOB	80	11	35,743	0.821		33,959	201,553	4.63
					33,959			
	79	10	32,175	0.739		30,441	167,594	3.85
					30,441			
	78	9	28,707	0.659		27,024	137,153	3.15
					27,024			
	77	8	25,340	0.582		23,707	110,130	2.53
					23,707			
	76	7	22,074	0.507		20,450	86,423	1.98
					20,450			
	75	6	18,825	0.432		17,329	65,973	1.51
					17,329			
	74	5	15,832	0.363		14,361	48,645	1.12
					14,361			
	73	4	12,890	0.296		11,676	34,284	0.79
					11,676			
NWL	72	3	10,461	0.240		9,410	22,608	0.52
					9,410			
	71	2	8,359	0.192		7,448	13,198	0.30
					7,448			
	70	1	6,536	0.150		5,751	5,751	0.13
					5,751			
	69	0	4,965	0.114		0	0	0.00

MCN - Nodal Diagram

Nodes

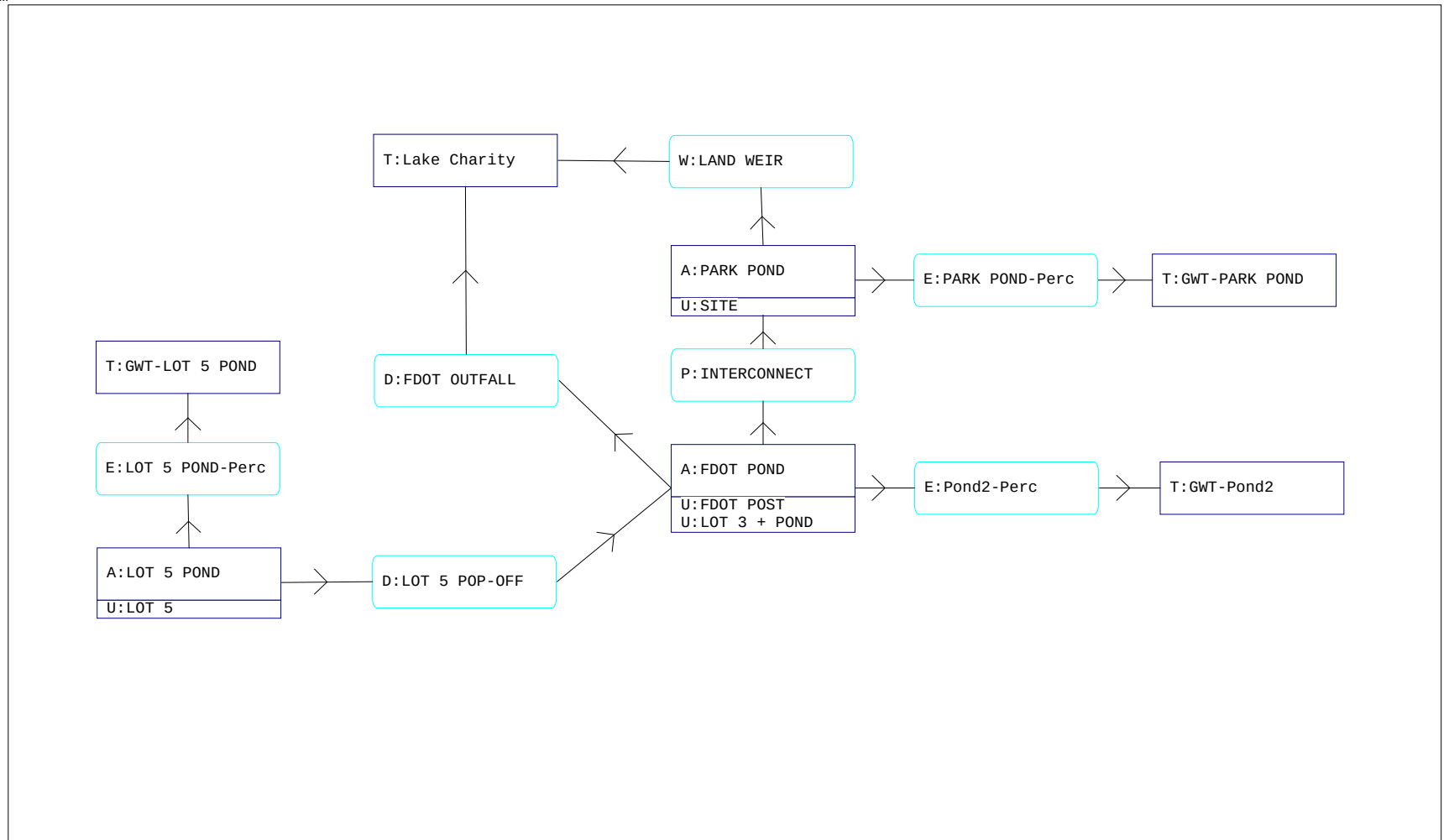
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins

O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links

P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



=====
Basins
=====

Name: FDOT POST Node: FDOT POND Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh323 Peaking Factor: 323.0
Rainfall File: Sjrwm96 Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 20.00
Area(ac): 7.060 Time Shift(hrs): 0.00
Curve Number: 84.30 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: LOT 3 + POND Node: FDOT POND Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh323 Peaking Factor: 323.0
Rainfall File: Sjrwm96 Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 5.920 Time Shift(hrs): 0.00
Curve Number: 79.20 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: LOT 5 Node: LOT 5 POND Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh323 Peaking Factor: 323.0
Rainfall File: Sjrwm96 Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 6.110 Time Shift(hrs): 0.00
Curve Number: 72.80 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: SITE Node: PARK POND Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh323 Peaking Factor: 323.0
Rainfall File: Sjrwm96 Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 39.820 Time Shift(hrs): 0.00
Curve Number: 86.40 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

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Nodes
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Name: FDOT POND Base Flow(cfs): 0.000 Init Stage(ft): 66.500
Group: BASE Warn Stage(ft): 79.000
Type: Stage/Area

Stage(ft)	Area(ac)
66.500	1.0050
67.000	1.0470
68.000	1.1310
69.000	1.2160
70.000	1.3030
71.000	1.3900
72.000	1.4790
73.000	1.6540
74.000	1.7780
75.000	1.9040
76.000	2.0340
77.000	2.1670
78.000	2.3120
79.000	2.4110
80.000	2.5090

Name: GWT-LOT 5 POND Base Flow(cfs): 0.000 Init Stage(ft): 66.500
Group: BASE Warn Stage(ft): 67.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	66.500
999.00	66.500

Name: GWT-PARK POND	Base Flow(cfs): 0.000	Init Stage(ft): 66.500
Group: BASE		Warn Stage(ft): 67.500
Type: Time/Stage		

Time(hrs)	Stage(ft)
0.00	66.500
999.00	66.500

Name: GWT-Pond2	Base Flow(cfs): 0.000	Init Stage(ft): 66.500
Group: BASE		Warn Stage(ft): 67.500
Type: Time/Stage		

Time(hrs)	Stage(ft)
0.00	66.500
999.00	66.500

Name: Lake Charity	Base Flow(cfs): 0.000	Init Stage(ft): 66.500
Group: BASE		Warn Stage(ft): 73.000
Type: Time/Stage		

Time(hrs)	Stage(ft)
0.00	66.500
48.00	69.000
60.00	70.000
96.00	72.000
120.00	72.200

Name: LOT 5 POND	Base Flow(cfs): 0.000	Init Stage(ft): 69.000
Group: BASE		Warn Stage(ft): 79.000
Type: Stage/Area		

Stage(ft)	Area(ac)
69.000	0.1140
70.000	0.1500
71.000	0.1920
72.000	0.2400
73.000	0.2960
74.000	0.3630
75.000	0.4320
76.000	0.5070
77.000	0.5820
78.000	0.6590
79.000	0.7390
80.000	0.8210

Name: PARK POND	Base Flow(cfs): 0.000	Init Stage(ft): 66.500
Group: BASE		Warn Stage(ft): 79.000
Type: Stage/Area		

Stage(ft)	Area(ac)
66.500	0.5630
67.000	0.6000
68.000	0.6770
69.000	0.7580
70.000	0.8510
71.000	0.9480
72.000	1.0590
73.000	1.1700
74.000	1.2850
75.000	1.4030
76.000	1.5250
77.000	1.6490

78.000	1.7750
79.000	1.9050
80.000	2.0370

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==== Pipes =====

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Name: INTERCONNECT	From Node: FDOT POND	Length(ft): 1034.00
Group: BASE	To Node: PARK POND	Count: 1
UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Circular	Circular	Solution Algorithm: Most Restrictive
Span(in): 54.00	54.00	Flow: Both
Rise(in): 54.00	54.00	Entrance Loss Coef: 0.50
Invert(ft): 58.000	58.000	Exit Loss Coef: 1.00
Manning's N: 0.013000	0.013000	Bend Loss Coef: 0.00
Top Clip(in): 0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Bot Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
		Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

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==== Drop Structures =====

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Name: FDOT OUTFALL	From Node: FDOT POND	Length(ft): 111.00
Group: BASE	To Node: Lake Charity	Count: 1
UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Circular	Circular	Solution Algorithm: Most Restrictive
Span(in): 24.00	24.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.000
Invert(ft): 62.590	61.000	Exit Loss Coef: 1.000
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 1 for Drop Structure FDOT OUTFALL ***

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Horizontal	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Rectangular	Orifice Disc Coef: 0.600	
Span(in): 37.00	Invert(ft): 78.200	
Rise(in): 49.00	Control Elev(ft): 78.200	

Name: LOT 5 POP-OFF	From Node: LOT 5 POND	Length(ft): 349.00
Group: BASE	To Node: FDOT POND	Count: 1
UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Circular	Circular	Solution Algorithm: Most Restrictive
Span(in): 24.00	24.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.500
Invert(ft): 67.680	58.000	Exit Loss Coef: 1.000
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 2 for Drop Structure LOT 5 POP-OFF ***

Count: 1	Bottom Clip(in): 0.000	TABLE
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Type: Horizontal
Flow: Both
Geometry: Rectangular
Span(in): 37.00
Rise(in): 49.00
Top Clip(in): 0.000
Weir Disc Coef: 3.200
Orifice Disc Coef: 0.600
Invert(ft): 73.000
Control Elev(ft): 73.000

*** Weir 2 of 2 for Drop Structure LOT 5 POP-OFF ***

Count: 1
Type: Vertical: Mavis
Flow: Both
Geometry: Rectangular
Span(in): 30.00
Rise(in): 8.00
Bottom Clip(in): 0.000
Top Clip(in): 0.000
Weir Disc Coef: 3.200
Orifice Disc Coef: 0.600
Invert(ft): 72.330
Control Elev(ft): 72.330

TABLE

=====

Name: LAND WEIR
Group: BASE
Flow: Both
Type: Vertical: Mavis
From Node: PARK POND
To Node: Lake Charity
Count: 1
Geometry: Trapezoidal

Bottom Width(ft): 60.00
Left Side Slope(h/v): 5.00
Right Side Slope(h/v): 5.00
Invert(ft): 79.000
Control Elevation(ft): 79.000
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000
Top Clip(ft): 0.000
Weir Discharge Coef: 3.200
Orifice Discharge Coef: 0.600

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Name: LOT 5 POND-Perc
Group: BASE
From Node: LOT 5 POND
To Node: GWT-LOT 5 POND
Flow: None
Count: 1

Surface Area Option: Use 1st Point in Stage/Area Table
Vertical Flow Termination: Horizontal Flow Algorithm
Aquifer Base Elev(ft): 50.000
Water Table Elev(ft): 66.500
*****0.000
Horiz Conductivity(ft/day): 27.000
Vert Conductivity(ft/day): 18.000
Effective Porosity(dec): 0.250
Suction Head(in): 4.000
Layer Thickness(ft): 2.500
Perimeter 1(ft): 897.000
Perimeter 2(ft): 1211.000
Perimeter 3(ft): 3777.000
Distance 1 to 2(ft): 50.000
Distance 2 to 3(ft): 450.000
Num Cells 1 to 2: 10
Num Cells 2 to 3: 45

Name: PARK POND-Perc
Group: BASE
From Node: PARK POND
To Node: GWT-PARK POND
Flow: None
Count: 1

Surface Area Option: Use 1st Point in Stage/Area Table
Vertical Flow Termination: Horizontal Flow Algorithm
Aquifer Base Elev(ft): 50.000
Water Table Elev(ft): 66.500
*****0.000
Horiz Conductivity(ft/day): 28.000
Vert Conductivity(ft/day): 3.330
Effective Porosity(dec): 0.250
Suction Head(in): 4.000
Layer Thickness(ft): 0.000
Perimeter 1(ft): 1500.000
Perimeter 2(ft): 1814.000
Perimeter 3(ft): 3999.000
Distance 1 to 2(ft): 50.000
Distance 2 to 3(ft): 450.000
Num Cells 1 to 2: 10
Num Cells 2 to 3: 45

Name: Pond2-Perc
Group: BASE
From Node: FDOT POND
To Node: GWT-Pond2
Flow: None
Count: 1

Surface Area Option: Use 1st Point in Stage/Area Table
Vertical Flow Termination: Horizontal Flow Algorithm
Aquifer Base Elev(ft): 50.000
Water Table Elev(ft): 66.500
*****0.000
Perimeter 1(ft): 1462.000
Perimeter 2(ft): 1751.000
Perimeter 3(ft): 3829.000

Horiz Conductivity(ft/day): 27.000	Distance 1 to 2(ft): 50.000
Vert Conductivity(ft/day): 3.330	Distance 2 to 3(ft): 450.000
Effective Porosity(dec): 0.250	Num Cells 1 to 2: 10
Suction Head(in): 4.000	Num Cells 2 to 3: 45
Layer Thickness(ft): 0.000	

==== Hydrology Simulations =====

Name: 03-24POST
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\03-24POST.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Fdot-24
Rainfall Amount(in): 5.50

Time(hrs)	Print Inc(min)
24.000	5.00

Name: 100YR-24HR
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\100YR-24HR.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 11.40

Time(hrs)	Print Inc(min)
8.000	30.00
14.000	15.00
24.000	30.00

Name: 10YR-24HR
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\10YR-24HR.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 6.80

Time(hrs)	Print Inc(min)
8.000	30.00
14.000	15.00
24.000	30.00

Name: 25-96POST
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\25-96POST.R32

Override Defaults: Yes
Storm Duration(hrs): 96.00
Rainfall File: Sjrwm96
Rainfall Amount(in): 11.20

Time(hrs)	Print Inc(min)
360.000	5.00

Name: 25YR-24HR
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\25YR-24HR.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Orange
Rainfall Amount(in): 8.50

Time(hrs)	Print Inc(min)
10.000	30.00
14.000	10.00
24.000	30.00

==== Routing Simulations =====

Name: 03-24POST Hydrology Sim: 03-24POST
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\03-24POST.I32

Execute: No	Restart: No	Patch: No
Alternative: No		
Max Delta Z(ft): 1.00		Delta Z Factor: 0.00500
Time Step Optimizer: 10.000		
Start Time(hrs): 0.000		End Time(hrs): 28.00
Min Calc Time(sec): 0.5000	Max Calc Time(sec): 60.0000	
Boundary Stages:	Boundary Flows:	

Time(hrs)	Print Inc(min)
-----	-----
999.000	15.000

Group	Run
-----	-----
BASE	Yes

Name: 100YR-24HR	Hydrology Sim: 100YR-24HR
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\100YR-24HR.I32	

Execute: Yes	Restart: No	Patch: No
Alternative: No		
Max Delta Z(ft): 1.00		Delta Z Factor: 0.00500
Time Step Optimizer: 10.000		
Start Time(hrs): 0.000		End Time(hrs): 24.00
Min Calc Time(sec): 0.5000	Max Calc Time(sec): 60.0000	
Boundary Stages:	Boundary Flows:	

Time(hrs)	Print Inc(min)
-----	-----
8.000	30.000
14.000	10.000
24.000	30.000

Group	Run
-----	-----
BASE	Yes

Name: 10YR-24HR	Hydrology Sim: 10YR-24HR
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\10YR-24HR.I32	

Execute: Yes	Restart: No	Patch: No
Alternative: No		
Max Delta Z(ft): 1.00		Delta Z Factor: 0.00500
Time Step Optimizer: 10.000		
Start Time(hrs): 0.000		End Time(hrs): 24.00
Min Calc Time(sec): 0.5000	Max Calc Time(sec): 60.0000	
Boundary Stages:	Boundary Flows:	

Time(hrs)	Print Inc(min)
-----	-----
8.000	30.000
14.000	10.000
24.000	30.000

Group	Run
-----	-----
BASE	Yes

Name: 25-96POST	Hydrology Sim: 25-96POST
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\25-96POST.I32	

Execute: Yes	Restart: No	Patch: No
Alternative: No		
Max Delta Z(ft): 1.00		Delta Z Factor: 0.00500
Time Step Optimizer: 10.000		
Start Time(hrs): 0.000		End Time(hrs): 100.00
Min Calc Time(sec): 0.5000	Max Calc Time(sec): 60.0000	
Boundary Stages:	Boundary Flows:	

Time(hrs)	Print Inc(min)
-----	-----

```

-----
999.000      15.000
Group        Run
-----
BASE         Yes
  
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Name: 25YR-24HR      Hydrology Sim: 25YR-24HR
Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\25YR-24HR.I32

Execute: Yes      Restart: No      Patch: No
Alternative: No

Max Delta Z(ft): 1.00      Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000      End Time(hrs): 360.00
Min Calc Time(sec): 1.0000      Max Calc Time(sec): 60.0000
Boundary Stages:      Boundary Flows:
  
```

```

Time(hrs)      Print Inc(min)
-----
10.000      30.000
14.000      10.000
24.000      30.000
60.000      60.000
360.000     60.000

Group        Run
-----
BASE         Yes
  
```