Project Correspondence

1724

RESOURCE MANAGEMENT ROUTING SHEET

Application Number: 4-069-0357A-ERP Date : 11/20/98

Date Received: 11/19/98 Appl. Received: 8/17/98

Date Issued: / / Related Permit: _____

Mail Type: PENDING APPL. CORR. F.O.R.:

Project Name: LEGENDS

Name	Job Title	Office
CHOU FANG	PROFESSIONAL ENGINEER	ORL
BARBARA PRYNOSKI	ENVIRONMENTAL SPECIALIST	ORL

GENERAL COUNSEL:

___ _____

___ _____

Comments:

SIGNED AND SEALED PLANS AND CALCS

Copied and Routed By: LO on 11/20/98
MAIL ROUTED FROM: ORL PROCESSED BY: SA

PAC

FARNER BARLEY AND ASSOCIATES, INC

ENGINEERS ▲ SURVEYORS ▲ PLANNERS

COMPANY:	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT	DATE: 11/18/98	JOB #- 961504.001
ADDRESS:	VIA PICK UP BY JOAN BUDZINSKI	ATTN:	CHOU FANG, PH.D., P.E.
CITY/ST:	618 E. SOUTH STREET ORLANDO, FL 32801	RE:	LEGENDS

WE ARE SENDING YOU ☒ ATTACHED ☐ UNDER SEPARATE COVER VIA _____ THE FOLLOWING:

☐ PLANS	☐ LETTER	☐ SHOP DRAWINGS	☐ PRINTS
☐ SPECIFICATIONS	☐ DRAWINGS	☐ REPORT	☐ CHANGE ORDER
☐ MAPS\PHOTOS	☐ BIDS	☐ INFORMATION	☐ PERMIT APPLICATION
☒ OTHER _____			

NO.	COPIES	DATE	DESCRIPTION
1	4		LEGENDS PHASE AND BASIN CORRELATION IMPERVIOUS AREA AND PERVIOUS AREA
			(SIGNED, SEALED, & DATED)
2	4		CURVE NUMBER MAP (SIGNED, SEALED, & DATED) - FOR THE PERMIT
3	2		CURVE NUMBER MAP (SIGNED, SEALED, & DATED) - FOR YOUR USE

THESE ARE BEING TRANSMITTED AS INDICATED BELOW:

☒ AS REQUESTED	☒ FOR YOUR USE	☐ FOR REVIEW AND COMMENT
☐ FOR APPROVAL	☐ PER DISCUSSION	☐ RETURNED AFTER LOAN
☐ OTHER _____		

RECEIVED
NOV 19 1998
PDS
ORLANDO
SJR WMD

COMMENTS: SHOULD YOU HAVE ANY QUESTIONS, PLEASE FEEL FREE TO CONTACT OUR OFFICE.

4-069-0357 A-ERP

CC: FILE

SIGNED: _____

DUANE K. BOOTH, P.E.

350 North Sinclair Avenue Tavares, Florida 32778 Ph: 352-343-8481 Fax: 352-343-8495 E-Mail: fba-eng@cde.com

LEGENDS
PHASE AND BASIN CORRELATION
IMPERVIOUS AREA (AC.)

	PHASES										
BASIN	1	2	3	4	5	6	7	8	9	10	TOTAL
1	1.18		0.26								1.44
2A	2.33										2.33
2B	3.53									1.39	4.92
2C*	1.12										1.12
3	5.53								3.66		9.19
4	2.98										2.98
6											0
7	1.18				.054					5.23	6.95
8		0.67									0.67
9**		1.07									1.07
10			2.01	1.30							3.31
11			1.40	1.15							2.55
12		3.11	0.38								3.49
14		1.34									1.34
15	3.18	0.10									3.28
16					4.87						4.87
18					5.92						5.92
19					2.31	.04					2.35
20		0.57	1.06	0.08		.04					1.75
21			0.43	6.48			0.38				7.29
22				0.04		0.43	1.76				2.23
23		0.84			1.99	6.90	0.10	0.35			10.18
24						0.27	8.02	5.11			13.40
TOTAL	21.03	7.70	5.54	9.05	15.63	7.78	10.16	5.46	3.66	6.62	92.63

* DOES NOT INCLUDE 1.37 AC. FOR WET POND
** DOES NOT INCLUDE 1.72 AC. FOR WET POND (IRRIGATION)

C:\WP60\KINGSRID\LEGENDS\IMPERV.COR

LEGENDS
PHASE AND BASIN CORRELATION
PERVIOUS AREA (AC.)

	PHASES										
BASIN	1	2	3	4	5	6	7	8	9	10	TOTAL
1	1.61		0.13								1.74
2A	2.89										2.89
2B	3.21									0.21	3.42
2C	1.68										1.68
3	5.30								.65		5.95
4	4.54										4.54
6											0
7	1.73				0.67					1.21	3.61
8		1.12									1.12
9		1.23									1.23
10			2.09	1.92							4.01
11			2.90	1.65							4.55
12		2.69	0.47								3.16
14		1.96									1.96
15	4.78	0.20									4.98
16					6.83						6.83
18					7.87						7.87
19					5.09	0.16					5.25
20		0.73	1.34	0.12		0.40					2.59
21			0.52	9.90			0.72				11.14
22				0.11		1.27	1.94				3.32
23		2.15			2.40	6.90	0.20	0.65			12.31
24						0.43	12.83	8.29			21.55
TOTAL	25.74	10.08	7.45	13.70	22.86	9.16	15.69	8.95	0.65	1.42	115.70

C:\WP60\KINGSRID\LEGENDS\PERV.COR

RESOURCE MANAGEMENT ROUTING SHEET

Application Number: 4-069-0357A-ERP Date : 11/ 6/98

Date Received: 11/ 5/98 Appl. Received: 8/17/98

Date Issued: / / Related Permit: _____

Mail Type: PENDING APPL. CORR. F.O.R.:

Project Name: LEGENDS

Name	Job Title	Office
CHOU FANG	PROFESSIONAL ENGINEER	ORL
BARBARA PRYNOSKI	ENVIRONMENTAL SPECIALIST	ORL

GENERAL COUNSEL:

___ _____

___ _____

Comments:

REVISED PLANS AND CALCS

Copied and Routed By: SA on 11-6-98

MAIL ROUTED FROM: ORL PROCESSED BY: SA

FARNER BARLEY
AND ASSOCIATES, INC
ENGINEERS ▲ SURVEYORS ▲ PLANNERS

COMPANY:	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT	DATE: 11/4/98	JOB #- 961504.001
ADDRESS:	VIA FEDERAL EXPRESS	ATTN:	CHOU FANG, PH.D., P.E.
CITY/ST:	618 E. SOUTH STREET ORLANDO, FL 32801	RE:	LEGENDS – Individual

WE ARE SENDING YOU ☒ ATTACHED ☐ UNDER SEPARATE COVER VIA _____ THE FOLLOWING:

☐ PLANS ☐ LETTER ☐ SHOP DRAWINGS ☐ PRINTS
☐ SPECIFICATIONS ☐ DRAWINGS ☐ REPORT ☐ CHANGE ORDER
☐ MAPS\PHOTOS ☐ BIDS ☐ INFORMATION ☐ PERMIT APPLICATION
☒ OTHER _____

RECEIVED
NOV 05 1998
4-095 9-0357A-ERP
PDS
ORLANDO
SJR WMD

NO.	COPIES	DATE	DESCRIPTION
1	4		CURVE NUMBER CALCULATIONS
2	4		PHASING PLAN WITH CURVE NUMBERS

THESE ARE BEING TRANSMITTED AS INDICATED BELOW:

☐ AS REQUESTED ☒ FOR YOUR USE ☐ FOR REVIEW AND COMMENT
☐ FOR APPROVAL ☐ PER DISCUSSION ☐ RETURNED AFTER LOAN
☐ OTHER _____

COMMENTS: SHOULD YOU HAVE ANY QUESTIONS, PLEASE FEEL FREE TO CONTACT OUR OFFICE.

CC: FILE

SIGNED: _____
DUANE K. BOOTH, P.E.

350 North Sinclair Avenue Tavares, Florida 32778 Ph: 352-343-8481 Fax: 352-343-8495 E-Mail: fba-eng@cde.com

LEGENDS – CURVE NUMBER CALCULATIONS

BY PHASE NUMBER

PHASE	TOTAL AREA	AREA PERVIOUS	AREA IMPERVIOUS	CN
I	46.77	32.33 x 39	14.44 x 98	57
II	17.78	10.43 x 39	7.35x98	63
III	12.99	7.03x 39	5.96x98	66
IV	22.75	13.71 x 39	9.04x98	63
V	38.49	22.20 x39	16.29x98	64
VI	16.94	9.94 x39	7.00x98	63
VII	25.85	15.87x 39	9.98x98	62
VIII	14.41	8.83 x39	5.58x98	62
IX *	4.31	0.65 x39	3.66 x98	89
X *	8.04	1.20 x39	6.84x98	89

* BASED ON 85% IMPERVIOUS (MAX.) – CITY OF CLERMONT CODE

Chou Fang
11/02/98 01:59 PM

To: Gloria Lewis/SJRWMD@SJRW
cc: Shirlee Arrowood/SJRWMD@SJRWMD, Lori Dowdy/SJRWMD@SJRWMD, Shannon Barican/SJRWMD@SJRWMD, Quenteria Johnson/SJRWMD@SJRWMD, Patrick Frost/SJRWMD@SJRWMD, Elizabeth Thomas/SJRWMD@SJRWMD, David Dewey/SJRWMD@SJRWMD, LancE Hart/SJRWMD@SJRWMD, Joan Budzynski/SJRWMD@SJRWMD, Barbara Prynoski/SJRWMD@SJRWMD, Ann Freeman/SJRWMD@SJRW
Subject: Addition to December Agenda
Legends; Application 4-069-0357A-ERP

Please add the subject project to the December board agenda.

Project Name:	**Legends**
App Number:	**4-069-0357A-ERP**
Proposed Action:	**Approval**
Objectors:	**None known.**
Reviewers:	**C.Fang / B.Prynoski**
Receiving Waterbody:	**Land-locked Basins**
State Submerged Lands:	**No**

Final Action must be taken by **Jan. 1999** Board Meeting.
Comments:

RESOURCE MANAGEMENT ROUTING SHEET

Application Number: 4-069-0357A-ERP Date : 10/29/98

Date Received: 10/28/98 Appl. Received: 8/17/98

Date Issued: / / Related Permit: _____

Mail Type: PENDING APPL. CORR. F.O.R.: P

Project Name: LEGENDS

Name	Job Title	Office
CHOU FANG	PROFESSIONAL ENGINEER	ORL
BARBARA PRYNOSKI	ENVIRONMENTAL SPECIALIST	ORL

GENERAL COUNSEL:

___ _____

___ _____

Comments:

SIGNED AND SEALED PLANS, CALCS, PAGE 4 OF APPLICAITON

Copied and Routed By: Sa on 10-29-98
MAIL ROUTED FROM: ORL PROCESSED BY: SA

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 1 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
200	11173				0	0
		13102	1	13102		
201	15030				13102	0.30
		17178	1	17178		
202	19325				30280	0.70
		21666	1	21666		
203	24007				51946	1.19
		26722	1	26722		
204	29436				78668	1.81
		32301	1	32301		
205	35165			TOP	110969	2.54

RECEIVED
OCT 28 1998
4-095-0357A-ERP
PDS
ORLANDO
SJR WMD

FDOT

STATE OF FLORIDA
REGISTERED
OCT 20 1998

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 2-A DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
192	8544				0	0
		9695	1	9695		
193	10846				9695	0.22
		11687	1	11687		
194	12528				21,382	0.49
		13600	1	13600		
195	14671				34982	0.80
		15793	1	15793		
196	16915				50775	1.17
		18087	1	18087		
197	19259				68862	1.58
		20481	1	20481		
198	21703				89343	2.05

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 2-B DATE: 6/9/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
182	53642				0	0
		57217	1	57217		
183	60792				57217	1.31
		64918	1	64918		
184	68043				121635	2.79
		71719	1	71719		
185	75394				193354	4.44

POND VOLUME

PROJECT: LEGENDS PROJECT NO.: _____

DESCRIPTION: POND 2-C DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
157	39152				0	0
		40826	1	40826		
158	42499				40826	1.86
		43999	1	43999		
159	45884				84825	1.95
		47597	1	47597		
160	49309				132422	3.04
		51040	1	51040		
161	52770				183462	4.21
		54519	1	54519		
162	56267				237981	5.46
		58037	1	58037		
163	59806				296018	6.80
		63367	1	63367		
164	66928				359385	8.25
		70528	1	70528		
165	74127				429913	9.87
		83481	1	83481		
166	92834				513394	11.79
		102883	1	102883		
167	112932				616277	14.15

POND VOLUME

PROJECT: LEGENDS PROJECT NO.: 961504.001

DESCRIPTION: POND B3 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
165	25902				0	0
		27865	1	27865		
166	29827				27865	0.64
		31877	1	31877		
167	33926				59742	1.37
		36117	1	36117		
168	38307				95859	2.20
		40649	1	40649		
169	42990				136508	3.13
		45486	1	45486		
170	47981				181994	4.18
		50682	1	50682		
171	53382				232676	5.34
		56183	1	56183		
172	58983				288.859	6.63
		61913	1	61913		
173	64842				350772	8.05
		72140	1	72140		
174	79437				422912	9.70
		83000	1	83000		
175	86562				505912	11.61

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND B4 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
177	31738				0	0
		34,301	1.	SAME		
178	36864				34,301	0.79
		39,586	1	–		
179	42308				73,887	1.70
		45,157	1	–		
180	48005				119,044	2.73
		50,810	1	–		
181	53614				169,854	3.90
		56,487	1	–		
182	59360				226,341	5.20
		64,839	1	–		
183	70317				291,180	6.68
		79,602	1	–		
184	88888				370,782	8.51
		103,330	1	–		
185	117772				474,112	10.88

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 6 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
203	56366				0	0
		58821	1	58821		
204	61276				58821	1.35

POND VOLUME

PROJECT: _____ PROJECT NO.: _____

DESCRIPTION: POND B7 DATE: 6/15/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
149	2420				0	0
		3706	1	3706		
150	4992				3706	0.09
		14625	5	73125		
155	24257				76831	1.76
		35293	5	176465		
160	46329				253296	5.81
		59950	5	299750		
165	73571				553046	12.69
		114642	5	573210		
170	155713				1126256	25.84
1:1						

POND VOLUME

PROJECT: _____ PROJECT NO.: _____

DESCRIPTION: POND B8 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC FT.)
235	12733				0	0
		14889	1	SAME		
236	17045				14889	0.34
		19142	1	—		
237	21240				34031	0.78
		25801	1	—		
238	30362				59832	1.37
		41140	1	—		
239	51919				100972	2.31
		79155	1	—		
240	106391				180127	4.13

POND VOLUME

PROJECT: LEGENDS PROJECT NO.: 961504.001

DESCRIPTION: POND 9 DATE: 10/25/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
228	25078				0	0
		27,705	1	27,705		
229	30331				27,705	0.64
		33,119	1	33,119		
230	35906				60,824	1.40
		38,860	1	38,860		
231	41813				99,684	2.29
		44,893	1	44,893		
232	47972				144,577	3.32
		51,165	1	51,165		
233	54357				195,742	4.49
		57,663	1	57,663		
234	60969				253,405	5.82
		64,388	1	64,388		
235	67806				317,793	7.30
		71,339	1	71,339		
236	74870				389,132	8.93
		78,516	1	78,516		
237	82160				467,648	10.74
		85,919	1	85,919		
238	89676				553,567	12.71
		93,548	1	93,548		
239	97419				647,115	14.86
		119,597	1	119,597		
240	141774				766,712	17.60

POND VOLUME

PROJECT: _____ PROJECT NO.: _____

DESCRIPTION: POND B10 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
210	4032				0	0
		5903	1	SAME		
211	7773				5903	0.14
		11937	1	-		
212	16102				17840	0.41
		23419	1	-		
213	30736				41259	0.95
		39078	1	-		
214	47421				80337	1.84
		51337	1	-		
215	55253				131674	3.02
		58371	1	-		
216	61490				190045	4.36
		64627	1	-		
217	67885				254732	5.85
		71553	1	-		
218	75221				326285	7.49
		79733	1	-		
219	84246			TOP	406.018	9.32

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 11 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
214	22373				0	0
		24102	1	24102		
215	25831				24102	0.55
		27611	1	27611		
216	29390				51713	1.19
		31220	1	31220		
217	33049				82933	1.90
		34929	1	34929		
218	36809				117862	2.71

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 12 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
205	1802				0	0
		2409	1	2409		
206	3016				2409	0.06
		3674	1	3674		
207	4331				6083	0.14
		5039	1	5039		
208	5746				11122	0.26
		6504	1	6504		
209	7262				17626	0.40
		8071	1	8071		
210	8879				25697	0.59
		9738	1	9738		
211	10596				35435	0.81
		11505	1	11505		
212	12413				46940	1.08
		13372	1	13372		
213	14331				60312	1.38
		17728	1	17728		
214	21124				78040	1.79
		22945	1	22945		
215	24766				100985	2.32
		26638	1	26638		
216	28509				127623	2.93

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 14 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
234	11799				0	0
		12824	1	12824		
235	13849				12824	0.29
		14925	1	14925		
236	16000				27749	0.64
		17126	1	17126		
237	18251				44875	1.03
		19427	1	19427		
238	20603				64302	1.48

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 15 DATE: 6/4/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
194	15942				0	0
		17946	1	17946		
195	19950				17946	0.41
		23370	1	23370		
196	26789				41316	0.95
		29642	1	29642		
197	32495				70958	1.63
		35545	1	35545		
198	38594				106503	2.45
		42623	1	42623		
199	46652				149126	3.42
		50246	1	50246		
200	53840				199372	4.58
		57543	1	57543		
201	61245				256915	5.90

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 16 DATE: 6/5/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
163	45249				0	0
		48054	1	48054		
164	50863				48054	1.10
		57312	1	57312		
165	63760				105,366	2.42
		66953	1	66953		
166	70145				172319	3.96
		78197	1	78197		
167	86249				250516	5.75
		90372	1	90372		
168	94494				340888	7.83
		98949	1	98949		
169	103404				439837	10.10

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 18 DATE: 6/5/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
165	59929				0	0
		59394	1	59394		
166	63859				59394	1.36
		69261	1	69261		
167	74662				128655	2.95
		80347	1	80347		
168	86031				209002	4.80
		94221	1	94221		
169	102410				303223	6.96
		110120	1	110120		
170	117830				413343	9.49
		131007	1	131007		
171	144184				544350	12.50

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 19 DATE: 6/5/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
178	31630				0	0
		33200	1	33200		
179	34770				33200	0.76
		36391	1	36391		
180	38011				69591	1.60
		39682	1	39682		
181	41352				109273	2.51
		43073	1	43073		
182	44794				152346	3.50
		46566	1	46566		
183	48337				198912	4.57

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND B20 DATE: 6/5/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC FT)
191	17861				0	0
		19642	1	—		
192	21422				19642	0.45
		24350	1	—		
193	27278				43992	1.01
		30768	1	—		
194	34259				74760	1.72
		37906	1	—		
195	41553				112666	2.59
		45946	1	—		
196	50338				158612	3.64

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND B21 DATE: 6/5/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU FT)	STORAGE (AC FT)
190	21423				77260	1.77
		28198	1	—		
191	34973				105458	2.42
		41763	1	—		
192	48552				147224	3.38
		54703	1	—		
193	59854				201424	4.62
		65684	1	—		
194	71514				267108	6.13
		76521	1	—		
195	81528				343629	7.89
		87328	1	—		
196	93128				430957	9.89

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND B22 DATE: 6/5/98

ELLVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU FT.)	STORAGE (AC FT.)
169	11428				0	0
		13081	1	13081		
170	14734				13081	0.30
		16508	1	16508		
171	18283				29589	0.68
		20144	1	20144		
172	22005				49733	1.14
		24959	1	24959		
173	27913				74692	1.72
		31610	1	31610		
174	35306				106302	2.44
		43367	1	43367		
175	51427				149669	3.44
		60148	1	60148		
176	68868				209814	4.82

POND VOLUME

PROJECT: LEGENDS PROJECT NO.:

DESCRIPTION: POND 23 DATE: 6/5/98

ELEVATION	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU. FT.)	STORAGE (AC. FT.)
134	10719				0	0
		12550	1	12550		
135	14385				12550	0.29
		16540	1	16540		
136	18695				29090	0.67
		20851	1	20851		
137	23006				49941	1.15
		25162	1	25162		
138	27317				75103	1.72
		29472	1	29472		
139	31627				104575	2.40
		33783	1	33783		
140	35938				138358	3.18
		38968	1	38968		
141	41998				177326	4.07
		45029	1	45029		
142	48059				222355	5.10
		51090	1	51090		
143	54120				273445	6.28
		57150	1	57150		
144	60180				330595	7.59
		63211	1	63211		
145	66241				393806	9.04
		70096	1	70096		
146	73950				463902	10.65
		77805	1	77805		
147	81660				541707	12.44
		93224	3	279672		
150	104788				821379	18.86

POND VOLUME

PROJECT: Legends PROJECT NO.:

DESCRIPTION: Pond B24 DATE: 6/28/93

ELEV	AREA (AC)	AREA (SQ. FT.)	AVERAGE AREA (SQ. FT.)	DELTA HEIGTH (FEET)	DELTA VOLUME (CU. FT.)	STORAGE (CU FT)	STORAGE (AC FT.)
112	1.90	82,911				0	0
			87,218	1	SAME		
113	2.10	91,524				87,218	2.00
			96,612	1	—		
114	2.33	101,700				183,830	4.22
			112,197	1	—		
115	2.82	122,694				296,027	6.80
			126,783	1	—		
116	3.00	130,872				422,810	9.71
			141,663	1	—		
117	3.50	152,453				564,473	12.96
			163,107	1	—		
118	3.99	173,761				727,580	16.70
			180,812	1	—		
119	4.31	187,863				908,392	20.85

FARNER BARLEY AND ASSOCIATES, INC
ENGINEERS ▲ SURVEYORS ▲ PLANNERS

COMPANY:	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT	DATE: 10/29/98	JOB #- 961504.001
ADDRESS:	~~VIA FEDERAL EXPRESS~~ Hand delivery	ATTN:	CHOU FANG, PH.D., P.E.
	618 E. SOUTH STREET	RE:	LEGENDS-INDIVIDUAL
CITY/ST:	ORLANDO, FL 32801		

WE ARE SENDING YOU ☒ ATTACHED ☐ UNDER SEPARATE COVER VIA ______ THE FOLLOWING:

☐ PLANS ☐ LETTER ☐ SHOP DRAWINGS ☐ PRINTS
☐ SPECIFICATIONS ☐ DRAWINGS ☐ REPORT ☐ CHANGE ORDER
☐ MAPS\PHOTOS ☐ BIDS ☐ INFORMATION ☐ PERMIT APPLICATION
☒ OTHER ______

NO.	COPIES	DATE	DESCRIPTION
1	5		PRINTS OF CURVE NUMBER MAP LEGENDS (SIGNED, SEALED, & DATED 10/29/98)
2	1		STAGE-STORAGE CALCULATIONS (SIGNED, SEALED, & DATED 10/29/98)
3	1		SIGNED PAGE 4 OF SJRWMD APPLICATION BY CLIENT

RECEIVED OCT 28 1998 PDS ORLANDO SJRWMD.
4-069-D35TH-AP

THESE ARE BEING TRANSMITTED AS INDICATED BELOW:

☐ AS REQUESTED ☒ FOR YOUR USE ☐ FOR REVIEW AND COMMENT
☐ FOR APPROVAL ☐ PER DISCUSSION ☐ RETURNED AFTER LOAN
☐ OTHER ______

COMMENTS: SHOULD YOU HAVE ANY QUESTIONS, PLEASE FEEL FREE TO CONTACT OUR OFFICE.

CC: FILE

SIGNED: [signature]
DUANE K. BOOTH, P.E.

350 North Sinclair Avenue Tavares, Florida 32778 Ph: 352-343-8481 Fax: 352-343-8495 E-Mail: fba-eng@cde.com

By signing and submitting this application form, I am applying, or I am applying on behalf of the applicant, for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familier with the information contained in this application, and represent that such information is true complete and accurate. I understand this is an application and not a permit, and work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto, does not relieve me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of my corporation, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S., and 18 U.S.C. Section 1001.

ROBERT AHRENS
Typed/Printed Name of Applicant (If no Agent is used) or Agent (If one is so authorized below)

10/27/98
Signature of Applicant/Agent *Date*

VICE PRESIDENT
(Corporate Title if applicable)

RECEIVED
OCT 28 1998
PDS
ORLANDO
SJRWMD

AN AGENT MAY SIGN ABOVE ONLY IF, THE APPLICANT COMPLETES THE FOLLOWING:

I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I designate and authorize the above-listed agent to bind me, or my corporation, to perform any requirement which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S., and 18 U.S.C. Section 1001.

Typed/Printed Name of Applicant *Signature of Applicant* *Date*

(Corporate Title if applicable)

Please note: The applicant's original signature (not a copy) is required above.

PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:

I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.

KEENE M. GERBER
Typed/Printed Name *Signature* *Date*

OWNER,
Corporate Title if applicable)

RESOURCE MANAGEMENT ROUTING SHEET

Application Number: 4-069-0357A-ERP Date : 10/22/98

Date Received: 10/22/98 Appl. Received: 8/17/98

Date Issued: / / Related Permit: _____

Mail Type: RAI RESPONSE F.O.R.: P

Project Name: LEGENDS

* Name	Job Title	Office *
CHOU FANG	PROFESSIONAL ENGINEER	ORL
BARBARA PRYNOSKI	ENVIRONMENTAL SPECIALIST	ORL

GENERAL COUNSEL:

___ _____

___ _____

Comments:

REVISED ~~PLANS~~ Calcs

Copied and Routed By: Sa on 10-22-98
MAIL ROUTED FROM: ORL PROCESSED BY: SA

FARNER BARLEY AND ASSOCIATES, INC.
ENGINEERS ▲ SURVEYORS ▲ PLANNERS

VIA FAX AND FEDERAL EXPRESS
October 21, 1998

Chou Fang, Ph.D., P.E.
Department of Resource Management
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
618 E. South Street
Orlando, FL 32801

RE: LEGENDS - INDIVIDUAL (FBA #961504.001), APPLICATION NUMBER #4-069-0357A-ERP

Dear Mr. Fang:

The following comments and enclosed calculations are in response to our phone conversation Monday, October 19, 1998, in regards to the above referenced project.

1. Please find the attached calculations for Pond #9 which show routing and ponds analysis of two 25 year-96 hour storm events. Storm 1 is routed with infiltration above the liner only at elevation 238 in which the peak stage is 238.65 and the stage at 14 days after the storm is 238.34. Since the pond does not naturally recover within 14 days, a second storm is analyzed with starting water elevation at 238.34 (stage at 14 days). The peak stage of the second storm is 238.86 which is still within the stormwater pond with 1.12 feet freeboard.

During a follow-up conversation with Karl Krichbaum and yourself Tuesday, October 20, 1998, you stated that you also needed response to questions 6, 7, & 8 of the request for additional information Legends Phase I Application Number 4-069-0357AM-ERP. Response to comments 6, 7, & 8 are as follows:

6. Pond #9 is a lined pond designed intentionally to hold water. Even though the pond bottom is 228 and the seasonal high ground water table is estimated at 236, the liner of the pond is designed to elevation 238 therefore, there are no effects of ground water into or out of the pond.

7. For design and calculations see item #1 above. Design was considered for 2 storms since recovery is not achieved within 14 days. Estimated ground water at pond #9 is 236 which is used in calculations enclosed.

8. A Consumptive Use Permit has been obtained for this project which includes using Pond #9 and the collected stormwater for irrigation. The pond as shown is consistent with the permit. Copy of permit attached for your use. When reclaimed water is available from the City of Clermont, the pond as designed will not need to be modified as it meets the requirements of the City of Clermont, SJRWMD Consumptive Use Permit and FDEP guidelines for reuse systems.

Should you have any questions, please feel free to contact our office.

Sincerely,
FARNER BARLEY & ASSOCIATES, INC.

Duane K. Booth, P.E.

DKB:am

C:\WP60\KINGSRID\LEGENDS\GOLF.CRS\STJOHNS\INDIV.SUB\RESPONSE.RAI

350 North Sinclair Avenue ▲ Tavares, Florida 32778 ▲ (352) 343-8481
▲ FAX (352) 343-8495 ▲

I. Job Information

Pond #9 Storm 1

Job Name: POND9
Engineer: KK
Date: 10/20/98

II. Input Data

Equivalent Pond Length, [L] (ft):	410.00
Equivalent Pond Width, [W] (ft):	380.00
Base Of Aquifer Elevation, [B] (ft above datum):	236.00
Water Table Elevation, [WT] (ft above datum):	236.10
Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day)	19.00
Fillable Porosity of Aquifer, [n] (%):	30.00
Is there a ditch parallel to the pond length axis?:	No
Is there a ditch parallel to the pond width axis?:	No
Include unsaturated vertical infiltration?:	Yes
Unsaturated vertical infiltration rate, (ft/day):	9.50
Maximum area for unsaturated infiltration, (sq ft):	141775
Groundwater mound intersects pond bottom?:	Yes

III. Input Data - Discharge Structures

Weir (or Orifice) #1 is Inactive

Weir (or Orifice) #2 is Inactive

Weir (or Orifice) #3 is Inactive

IV. Input Data - Stage vs Area Data

Stage (ft datum)	Area (ft^2)
238.000	89676.0
239.000	97419.0
240.000	141775.0

POND5 - Version 2.26
Copyright 1995

Written By Devo Seereeram, Ph.D., P.E.
And Robert D. Casper

Licensed Solely For Use By:
Farner, Barley & Associates, Inc.

VII. Results - Summary

Elapsed Time (hrs)	Inflow Rate (cfs)	Stage Elevation (ft datum)	Infiltration Rate (cfs)	Overflow Discharge Rate (cfs)	Flow Type
0.00	0.00000	236.10	0.000000	0.000000	N.A.
1.00	0.00000	236.10	0.000000	0.000000	U
2.00	0.00000	236.10	0.000000	0.000000	U
3.00	0.00000	236.10	0.000000	0.000000	U
4.00	0.00000	236.10	0.000000	0.000000	U
5.00	0.00000	236.10	0.000000	0.000000	U
6.00	0.00000	236.10	0.000000	0.000000	U
7.00	0.00000	236.10	0.000000	0.000000	U
8.00	0.00000	236.10	0.000000	0.000000	U
9.00	0.00000	236.10	0.000000	0.000000	U
10.00	0.00000	236.10	0.000000	0.000000	U
11.00	0.00000	236.10	0.000000	0.000000	U
12.00	0.00000	236.10	0.000000	0.000000	U
13.00	0.00000	236.10	0.000000	0.000000	U
14.00	0.00000	236.10	0.000000	0.000000	U
15.00	0.00000	236.10	0.000000	0.000000	U
16.00	0.00000	236.10	0.000000	0.000000	U
17.00	0.00000	236.10	0.000000	0.000000	U
18.00	0.00000	236.10	0.000000	0.000000	U
19.00	0.00000	236.10	0.000000	0.000000	U
20.00	0.00000	236.10	0.000000	0.000000	U
21.00	0.00000	236.10	0.000000	0.000000	U
22.00	0.00000	236.10	0.000000	0.000000	U
23.00	0.00000	236.10	0.000000	0.000000	U
24.00	0.00000	236.10	0.000000	0.000000	U
25.00	0.00000	236.10	0.000000	0.000000	U
26.00	0.00000	236.10	0.000000	0.000000	U
27.00	0.00000	236.10	0.000000	0.000000	U
28.00	0.00000	236.10	0.000000	0.000000	U
29.00	0.00000	236.10	0.000000	0.000000	U
30.00	0.00000	236.10	0.000000	0.000000	U
31.00	0.00000	236.10	0.000000	0.000000	U
32.00	0.00000	236.10	0.000000	0.000000	U

POND5 - Version 2.26
Copyright 1995

Written By Devo Seereeram, Ph.D., P.E.
And Robert D. Casper

Licensed Solely For Use By:
Farner, Barley & Associates, Inc.

VII. Results - Summary

Elapsed Time (hrs)	Inflow Rate (cfs)	Stage Elevation (ft datum)	Infiltration Rate (cfs)	Overflow Discharge Rate (cfs)	Flow Type
33.00	0.00000	236.10	0.000000	0.000000	U
34.00	0.00000	236.10	0.001205	0.000000	U
35.00	0.00482	236.10	0.005962	0.000000	U
36.00	0.01421	236.10	0.014172	0.000000	U
37.00	0.02345	236.10	0.023382	0.000000	U
38.00	0.03242	236.10	0.032362	0.000000	U
39.00	0.04116	236.11	0.041240	0.000000	U
40.00	0.05022	236.11	0.050410	0.000000	U
41.00	0.06004	236.12	0.059730	0.000000	U
42.00	0.06862	236.12	0.068560	0.000000	U
43.00	0.07696	236.13	0.076662	0.000000	U
44.00	0.08411	236.13	0.083745	0.000000	U
45.00	0.08980	236.14	0.090172	0.000000	U
46.00	0.09698	236.15	0.096937	0.000000	U
47.00	0.10399	236.16	0.107190	0.000000	U
48.00	0.12380	236.17	0.127910	0.000000	U
49.00	0.16005	236.18	0.156493	0.000000	U
50.00	0.18207	236.19	0.185015	0.000000	U
51.00	0.21587	236.21	0.215782	0.000000	U
52.00	0.24932	236.23	0.255205	0.000000	U
53.00	0.30631	236.26	0.304350	0.000000	U
54.00	0.35546	236.28	0.364012	0.000000	U
55.00	0.43882	236.32	0.446567	0.000000	U
56.00	0.55317	236.36	0.578758	0.000000	U
57.00	0.76987	236.41	0.785058	0.000000	U
58.00	1.04732	236.49	1.230970	0.000000	U
59.00	2.05937	236.62	5.706776	0.000000	U
60.00	20.83158	238.06	9.887222	0.000000	U/P
61.00	3.44749	238.15	6.328944	0.000000	U/P
62.00	1.99899	238.15	1.514554	0.000000	U/S
63.00	1.43672	238.21	0.254460	0.000000	S
64.00	1.25387	238.25	0.207319	0.000000	S
65.00	0.88022	238.29	0.180956	0.000000	S

PONDS - Version 2.26
Copyright 1995

Written By Devo Seereeram, Ph.D., P.E.
And Robert D. Casper

Licensed Solely For Use By:
Farner, Barley & Associates, Inc.

VII. Results - Summary

Elapsed Time (hrs)	Inflow Rate (cfs)	Stage Elevation (ft datum)	Infiltration Rate (cfs)	Overflow Discharge Rate (cfs)	Flow Type
66.00	0.87989	238.31	0.164630	0.000000	S
67.00	0.88414	238.34	0.153815	0.000000	S
68.00	0.78763	238.37	0.145101	0.000000	S
69.00	0.59608	238.39	0.137371	0.000000	S
70.00	0.59525	238.41	0.131240	0.000000	S
71.00	0.59651	238.43	0.126373	0.000000	S
72.00	0.50235	238.44	0.121286	0.000000	S
73.00	0.31377	238.45	0.115975	0.000000	S
74.00	0.31189	238.46	0.111279	0.000000	S
75.00	0.31231	238.47	0.107650	0.000000	S
76.00	0.31359	238.48	0.104637	0.000000	S
77.00	0.31573	238.49	0.102037	0.000000	S
78.00	0.31618	238.49	0.099594	0.000000	S
79.00	0.31663	238.50	0.097491	0.000000	S
80.00	0.31619	238.51	0.095926	0.000000	S
81.00	0.31494	238.52	0.094139	0.000000	S
82.00	0.31533	238.53	0.092578	0.000000	S
83.00	0.31574	238.54	0.091235	0.000000	S
84.00	0.31615	238.55	0.089895	0.000000	S
85.00	0.31657	238.55	0.088951	0.000000	S
86.00	0.31697	238.56	0.087797	0.000000	S
87.00	0.31737	238.57	0.086848	0.000000	S
88.00	0.31862	238.58	0.086137	0.000000	S
89.00	0.32074	238.59	0.085246	0.000000	S
90.00	0.32116	238.60	0.084310	0.000000	S
91.00	0.32154	238.61	0.083506	0.000000	S
92.00	0.32105	238.62	0.083249	0.000000	S
93.00	0.31973	238.63	0.082978	0.000000	S
94.00	0.32008	238.63	0.082142	0.000000	S
95.00	0.32046	238.64	0.081287	0.000000	S
96.00	0.21385	238.65	0.080771	0.000000	S
432.00	0.00000	238.34	-----	-----	N.A.

ELEVATION AT 14 DAYS

POND$ - Version 2.26
Copyright 1995

Written By Devo Seereeram, Ph.D., P.E.
And Robert D. Casper

Licensed Solely For Use By:
Farner, Barley & Associates, Inc.

VIII. Summary - Cumulative Volumes, Peaks Rates, and Peak Stage

Inflow

Peak Inflow Rate, (cfs):	20.83
Time, (hrs):	60.00
Cumulative Inflow Volume, (ft^3):	177475

Stage

Peak Stage, (ft datum):	238.65
Time, (hrs):	96.00

Overflow Discharge

Peak Discharge Rate, (cfs):	0.00
Time, (hrs):	0.00
Cumulative weir discharge volume, (ft^3):	0

Infiltration Rate

Peak Infiltration Rate, (cfs):	9.8872
Time, (hrs):	60.00
Cumulative Infiltration Volume, (ft^3):	146656

POND # 9 STORM 2

PONDS - Version 2.26
Copyright 1995

Written By Devo Seereeram, Ph.D., P.E.
And Robert D. Casper

Licensed Solely For Use By:
Farner, Barley & Associates, Inc.

Retention Pond Recovery Analysis - Inflow Hydrograph

I. Job Information

Job Name: POND9
Engineer: KK
Date: 10/20/98

II. Input Data

Equivalent Pond Length, [L] (ft):	410.00
Equivalent Pond Width, [W] (ft):	380.00
Base Of Aquifer Elevation, [B] (ft above datum):	236.00
Water Table Elevation, [WT] (ft above datum):	236.10
Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day)	19.00
Fillable Porosity of Aquifer, [n] (%):	30.00
Is there a ditch parallel to the pond length axis?:	No
Is there a ditch parallel to the pond width axis?:	No
Include unsaturated vertical infiltration?:	Yes
Unsaturated vertical infiltration rate, (ft/day):	9.50
Maximum area for unsaturated infiltration, (sq ft):	141775
Groundwater mound intersects pond bottom?:	Yes

III. Input Data - Discharge Structures

Weir (or Orifice) #1 is Inactive

Weir (or Orifice) #2 is Inactive

Weir (or Orifice) #3 is Inactive

IV. Input Data - Stage vs Area Data

Stage (ft datum)	Area (ft^2)
238.340	92309.0
239.000	97419.0
240.000	141775.0

PONDS - Version 2.26
Copyright 1995

Written By Devo Seereeram, Ph.D., P.E.
And Robert D. Casper

Licensed Solely For Use By:
Farner, Barley & Associates, Inc.

VIII. Summary - Cumulative Volumes, Peaks Rates, and Peak Stage

Inflow

Peak Inflow Rate, (cfs):	20.83
Time, (hrs):	60.00
Cumulative Inflow Volume, (ft^3):	177475

Stage

Peak Stage, (ft datum):	238.86
Time, (hrs):	96.00

FINAL PEAK STAGE

Overflow Discharge

Peak Discharge Rate, (cfs):	0.00
Time, (hrs):	0.00
Cumulative weir discharge volume, (ft^3):	0

Infiltration Rate

Peak Infiltration Rate, (cfs):	10.1712
Time, (hrs):	60.00
Cumulative Infiltration Volume, (ft^3):	128843

RESOURCE MANAGEMENT ROUTING SHEET

Application Number: 4-069-0357A-ERP Date : 9/28/98

Date Received: 9/28/98 Appl. Received: 8/17/98

Date Issued: / / Related Permit: _____

Mail Type: RAI RESPONSE F.O.R.:

Project Name: LEGENDS

Name	Job Title	Office
CHOU FANG	PROFESSIONAL ENGINEER	ORL
BARBARA PRYNOSKI	ENVIRONMENTAL SPECIALIST	ORL

GENERAL COUNSEL:

___ _____

___ _____

Comments:

REC'D RAI RESPONSE LETTER, 5 SETS OF CALCS & PLANS.

Copied and Routed By: GC on 9/29/98
MAIL ROUTED FROM: ORL PROCESSED BY: GC

FARNER BARLEY AND ASSOCIATES, INC.
ENGINEERS ▲ SURVEYORS ▲ PLANNERS

VIA CERTIFIED MAIL
September 25, 1998

Chou Fang, Ph.D., P.E.
Department of Resource Management
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
618 E. South Street
Orlando, FL 32801

RE: LEGENDS - INDIVIDUAL (FBA #961504.001)

Dear Mr. Fang:

The following is in response to your letter dated September 14, 1998:

1. **The proposed project as shown in section A of the application, includes golf course, mass grading, and construction of a surfacewater treatment and attenuation system. However, the plans show roadways and lots. Please clarify what is proposed in this application. If the roadways and lots are not proposed, omit any indication of roadways and lots from the plans and submit revised plans. If the roadways and lots are included, submit detailed construction plans of roadways and lots. [40C-4.301(1)(a) and (b)]**

   The lots and roadways were shown for conceptual purposes only. They were omitted from plans.

2. **If this application includes construction of lots, please submit the homeowners association documents for review. Please note that the project owner is not typically an acceptable operation and maintenance entity. Please submit draft Articles of Incorporation and Restrictive Deeds and Covenants, which establish the Association, enumerate its duties, affirmatively assign authority and responsibility for the operation or maintenance of the stormwater management system and provide a method for sufficient assessment to cover costs of maintaining and operating the permitted system. Include or incorporate the enclosed recommended language, or language with equivalent effect, for draft Articles of Incorporation and Restrictive Deeds and Covenants in the appropriate places. The documents will be reviewed by the District's staff and you will be notified if additional information is required. [40C-4.301(1)(j), 40C-42.027(2)(a)(b),1.,2.,3.,4.,5.,6.,7.,8., F.A.C.]**

   The lots and roadways were omitted from plans.

3. **Please provide an Integrated Pesticide Management Plan. For information on how to prepare such a plan, please call Ms. Cammie Dewey at 407/897-4314. [40C-4.301(1)(e), F.A.C.]**

   A Management Plan was submitted with the Consumptive Use Permit and approved. Copy enclosed for your use (found in rear of Stormwater Calculations).

350 North Sinclair Avenue ▲ Tavares, Florida 32778 ▲ (352) 343-8481
▲ FAX (352) 343-8495 ▲

4. **Please revise off-site drainage basins to include the areas which drain to Basins B7 and B16 from the south of the proposed project site. Submit revised plan sheet 2 and drainage calculations as necessary. [40C-4.301(1)(a), (b), (c), and (e), F.A.C.]**

   The existing subdivision "Vista's" lying adjacent to southern property line has been designed with type "B" lots butted against property. These lots were constructed with rear yard swales thereby intercepting all run-off on to the drainage basins in question.

5. **In the Developed Basin Summary and Curve Number Calculation, the total drainage basin area of B22 is shown as 16.56 acres. However, in the CN curve number calculations, the total area is 14.35 acres. Please review the drainage area of basin B22 for consistency. Submit revised tables and calculations as applicable. [40C-4.301(1)(a) and (b), F.A.C.]**

   Revised as noted.

6. **Please provide stage-storage calculations for all the proposed retention ponds. Submit calculations. [40C-4.301(1)(a), (b), and (e), F.A.C.]**

   Stage-Storage calculations were included under "ICPR Input Data". Revisions to applicable basins have been added.

7. **On plan sheet 9, the top of the liner is at 238 feet but the normal water elevation in Pond 9 is 236 feet. Please demonstrate determination of the normal water elevation in Pond 9. [40C-4.301(1)(a), (b), and (e), F.A.C.]**

   Pond 9 is used for irrigation as previously discussed in pre-application meeting. Water in excess of elevation 236 shall be distributed throughout site via irrigation pump station. When pond elevation drops below 236, an on-site well or future re-use from City shall augment Pond 9 up to elevation 236; therefore, a normal water level of 236 shall be maintained.

8. **Most of the side slopes of the ponds shown in the table on plan sheet 9 are not in conformance with 40C-42.025(3)(a), F.A.C. which requires that normally dry ponds designed to impound more than two feet of water or permanently wet ponds shall be fenced or otherwise restricted from public access, or shall contain side slopes that are no steeper than 4:1 (horizontal:vertical) out to depth of two feet below the control elevation. Please revise the side slopes. Submit revised plans and calculations as necessary. [40C.42.025(3)(a), F.A.C.]**

   Revised all ponds to 4:1 maximum slope.

9. **The ICPR Node Max Conditions table shows the max stage of Node 15 is 198.07. However, the time series shows the stage is 198.19 at 96.064 hour when the stage is still rising. Similar situations are found on Nodes 20, 24, 3, 6, 7, 8, and 9. Please check the calculations for accuracy on the peak stage. Submit revised peak stage calculations. [40C-4.301(1)(a) and (b), F.A.C.]**

   See revised calculations.

10. **Please submit recovery calculations for Ponds 2C and 9 where liners are proposed to retain stormwater for irrigation use. The recovery shall be calculated for pollution abatement volume and the total runoff volume for the 25-year/96-hour storm events. [40C-4.301(1)(a), (b), and (e), F.A.C.]**

    Recovery calculations for Pond 2C are provided in calculations. Pond 9 is used for irrigation. Recovery of Pond 9 shall be facilitated by irrigating golf course, lots and common area via irrigation pump station.

11. **Please demonstrate that the sink holes on the proposed project site do not have a direct connection to the Floridan Aquifer. Be aware that if the sink holes have connection to the aquifer, the runoff shall receive water quality treatment in the uplands prior to discharge to the sink holes. [40C-4.301(1)(e), F.A.C.]**

    From the Geotechnical Report titled "Lake Louisa Club" dated November 22, 1996, several deep borings were performed to investigate the potential for sinkhole activity and connection to the aquifer. In the evaluation section, the report states limestone was not found within any of the borings to 150 feet deep, the sand within the borings had relatively high SPT values, and the presence of low permeable soils (sand clay & clay) indicate the presence of a semi-eroded Hawthorn Formation above the limestone, that will provide confinement between the water table aquifer and the underlying limestone aquifer. This report was submitted with original application.

12. **Please check the total basin area for Basins 3 and 7. The areas shown in the runoff worksheet are inconsistent with those used in the water quality treatment volume calculations. Submit revised tables, calculations, and plans as necessary. [40C-4.301(1)(a), (b), and (e), F.A.C.]**

    Revised calculations.

Should you have any questions, please feel free to contact our office.

Sincerely,
FARNER, BARLEY & ASSOCIATES, INC.

Duane K. Booth, P.E.

DKB:am

C:\WP60\KINGSRID\LEGENDS\GOLF.CRS\STJOHNS\INDIV.SUB\RAI1.LTR

RESOURCE MANAGEMENT ROUTING SHEET

Application Number: 4-069-0357A-ERP Date : 9/16/98

Date Received: 9/14/98 Appl. Received: 8/17/98

Date Issued: / / Related Permit: _____

Mail Type: RAI LETTER F.O.R.:

Project Name: LEGENDS

Name	Job Title	Office
CHOU FANG	PROFESSIONAL ENGINEER	ORL
BARBARA PRYNOSKI	ENVIRONMENTAL SPECIALIST	ORL

GENERAL COUNSEL:

___ _____

___ _____

Comments:

Copied and Routed By: CD on 9/16/98

MAIL ROUTED FROM: ORL PROCESSED BY: CD

4-069-0357A-ERP C. Fang

SENDER: Legends

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you
- Attach this form to the front of the mailpiece, or on the back if space does not permit
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Mr. Duane K. Booth, P.E.
Farner, Barley & Associates, Inc.
350 N. Sinclair
Tavares, FL 32

ENTERED 9/17/98

4a. Article Number
Z 597 593 913

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
9-15-98

5. Received By: *(Print Name)*
C. Jacobs

6. Signature: *(Addressee or Agent)*
X C. Jacobs

8. Addressee's Address *(Only if requested and fee is paid)*

PS Form **3811**, December 1994 102595-98-B-0229 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

Z 597 593 913

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail *(See reverse)*

Sent to Mr. Duane K. Booth, P.E	
Street & Number 350 N. Sinclair Ave.	
Post Office, State, & ZIP Code Tavares, FL 32778	
Postage	$ .32
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$ [illegible]
Postmark or Date	DOWNTOWN SEP 14 1998 USPS

PS Form **3800**, April 1995

4-069-0357A-ERP

3. Please provide an Integrated Pesticide Management Plan. For information on how to prepare such a plan, please call Ms. Cammie Dewey at 407/897-4314. [40C-4.301(1)(e), F.A.C.]

4. Please revise off-site drainage basins to include the areas which drain to Basins B7 and B16 from the south of the proposed project site. Submit revised plan sheet 2 and drainage calculations as necessary. [40C-4.301(1)(a), (b), (c), and (e), F.A.C.]

5. In the Developed Basin Summary and Curve Number Calculation, the total drainage basin area of B22 is shown as 16.56 acres. However, in the CN curve number calculations, the total area is 14.35 acres. Please review the drainage area of basin B22 for consistency. Submit revised tables and calculations as applicable. [40C-4.301(1)(a) and (b), F.A.C.]

6. Please provide stage-storage calculations for all the proposed retention ponds. Submit calculations. [40C-4.301(1)(a), (b), and (e), F.A.C.]

7. On plan sheet 9, the top of the liner is at 238 feet but the normal water elevation in Pond 9 is 236 feet. Please demonstrate determination of the normal water elevation in Pond 9. [40C-4.301(1)(a), (b), and (e), F.A.C.]

8. Most of the side slopes of the ponds shown in the table on plan sheet 9 are not in conformance with 40C-42.025(3)(a), F.A.C which requires that normally dry ponds designed to impound more than two feet of water or permanently wet ponds shall be fenced or otherwise restricted from public access, or shall contain side slopes that are no steeper than 4:1 (horizontal:vertical) out to depth of two feet below the control elevation. Please revise the side slopes. Submit revised plans and calculations as necessary. [40C-42.025(3)(a), F.A.C.]

9. The ICPR Node Max Conditions table shows the max stage of Node 15 is 198.07. However, the time series shows the stage is 198.19 at 96.064 hour when the stage is still rising. Similar situations are found on Nodes 20, 24, 3, 6, 7, 8, and 9. Please check the calculations for accuracy on the peak stage. Submit revised peak stage calculations. [40C-4.301(1)(a) and (b), F.A.C.]

10. Please submit recovery calculations for Ponds 2C and 9 where liners are proposed to retain stormwater for irrigation use. The recovery shall be calculated for pollution abatement volume and the total runoff volume for the 25-year/96-hour storm events. [40C-4.301(1)(a), (b), and (e), F.A.C.]

11. Please demonstrate that the sink holes on the proposed project site do not have a direct connection to the Floridan Aquifer. Be aware that if the sink holes have connection to the aquifer, the runoff shall receive water quality treatment in the uplands prior to discharge to the sink holes. [40C-4.301(1)(e), F.A.C.]

12. Please check the total basin area for Basins 3 and 7. The areas shown in the runoff worksheet are inconsistent with those used in the water quality treatment volume calculations. Submit revised tables, calculations, and plans as necessary. [40C-4.301(1)(a), (b), and (e), F.A.C.]

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904-329-4500 SUNCOM 904-860-4500
TDD 904-329-4450 TDD SUNCOM 860-4450
FAX (Executive) 329-4125 (Legal) 329-4485 (Permitting) 329-4315 (Administration/Finance) 329-4508
(Planning and Acquisition) 329-4848

SERVICE CENTERS

618 E. South Street
Orlando, Florida 32801
407-897-4300
TDD 407-897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904-730-6270
TDD 904-448-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407-984-4940
TDD 407-722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407-752-3100
TDD 407-752-3102

September 14, 1998

CERTIFIED NO. Z 597 593 931

Mr. Duane K. Booth, P.E.
Farner, Barley & Associates, Inc.
350 North Sinclair Avenue
Tavares, FL 32778

ENTERED
ERD 9-16-98

Re: Legends, Application Number 4-069-0357A-ERP
(Please reference the above number on any submittal)

Dear Mr. Booth:

The St. Johns River Water Management District is in receipt of your Individual Environmental Resource Permit application. Upon preliminary review of the proposed project, the following technical information is required to sufficiently review the possible impacts the project may have on the surrounding area. This information is being requested pursuant to the authority vested in the St. Johns River Water Management District under subsection 373.413(2), Florida Statutes, and sections 40C-4.101 and 40C-4.301, Florida Administrative Code.

In order to expedite the review of your application, please use the application number referenced above on all correspondence, and submit five (5) copies of all requested information unless otherwise indicated by a specific information request.

1. The proposed project as shown in section A of the application, includes golf course, mass grading, and construction of a surfacewater treatment and attenuation system. However, the plans show roadways and lots. Please clarify what is proposed in this application. If the roadways and lots are not proposed, omit any indication of roadways and lots from the plans and submit revised plans. If the roadways and lots are included, submit detailed construction plans of roadways and lots. [40C-4.301(1)(a) and (b)]

2. If this application includes construction of lots, please submit the homeowners association documents for review. Please note that the project owner is not typically an acceptable operation and maintenance entity. Please submit draft Articles of Incorporation and Restrictive Deeds and Covenants, which establish the Association, enumerate its duties, affirmatively assign authority and responsibility for the operation or maintenance of the stormwater management system and provide a method for sufficient assessment to cover costs of maintaining and operating the permitted system. Include or incorporate the enclosed recommended language, or language with equivalent effect, for draft Articles of Incorporation and Restrictive Deeds and Covenants in the appropriate places. The documents will be reviewed by the District's staff and you will be notified if additional information is required. [40C-4.301(1)(j), 40C-42.027(2)(a)(b),1.,2.,3.,4.,5.,6.,7.,8., F.A.C.]

If the applicant wishes to dispute the necessity for any information requested on an application form or in a letter requesting additional information, he or she may pursuant to section 373.4141, Florida Statutes, request that District staff process the application without the requested information. If the applicant is then unsatisfied with the District's decision regarding issuance or denial of the application, the applicant may request a section 120.569, Florida Statutes, hearing pursuant to Chapter 28-106 and section 40C-1.1007, F.A.C.

Please be advised, pursuant to subsection 40C-1.1008, F.A.C., the applicant shall have 90 days from receipt of a request for additional information regarding a permit or license application undergoing review by the District to submit that information to the District. If an applicant requires more than 90 days in which to complete an application, the applicant may notify the District in writing of the circumstances and for good cause shown, the application shall be held in active status for additional periods commensurate with the good cause shown. Any application which has not been completed by the applicant within the given time period following a request for additional information by the District shall be recommended for denial at the next regularly scheduled Board meeting. Denial of an application due to failure to submit requested additional information shall be a denial without prejudice to the applicant's right to file a new application.

In addition, no construction shall begin on the proposed project until a permit is issued by the St. Johns River Water Management District. This is pursuant to subsection 40C-4.041(1), F.A.C., which states in relevant part, "unless expressly exempt an individual or general environmental resource permit must be obtained from the District under Chapter 40C-4, 40C-40, 40C-42, 40C-44, or 40C-400, F.A.C. prior to the construction, alteration, operation, maintenance, removal or abandonment of any dam, impoundment, reservoir, appurtenant work or works...."

If you have any questions, please do not hesitate to call me at 407/897-4332.

Sincerely,

Chou Fang

Chou Fang, Ph.D., P.E., Professional Engineer
Department of Resource Management

CF:mb

cc: PDS/RAIL, Joan B. Budzynski, Elizabeth Thomas, Cammie Dewey

Mr. Keene M. Gerber
13100 W. Colonial Drive
Winter Garden, FL 34787