PELICAN GOLF CLUB | RECONSTRUCTION PLAN
Project Narrative

January 12, 2017
Revised March 27, 2017

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Table of Contents

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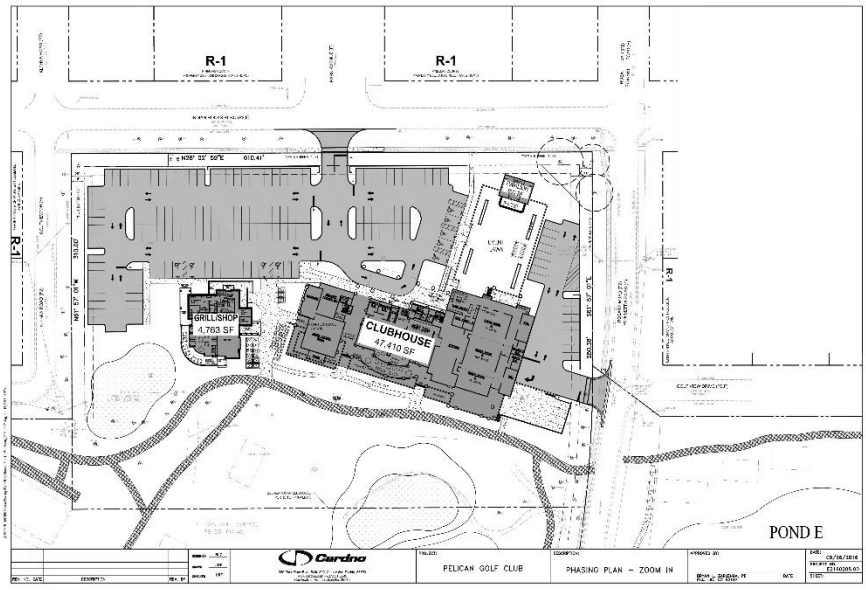
PROJECT DESCRIPTION

The Pelican Golf Club is a redevelopment plan for the Belleview Biltmore Golf Club. The applicant intends to purchase the property from the Town of Belleair and make several site improvements relating to the buildings, landscaping, and the golf course. The applicant is seeking Preliminary Development Plan (PDP) approval; the applicant will seek construction plan and building permit approval as subsequent approvals. The PDP is intended to identify the project programming, preliminary design and general construction methods before seeking more detailed project approvals and individual permits. The project includes two distinct redevelopment areas, the clubhouse area and the golf course.

Clubhouse Redevelopment

The existing clubhouse will be demolished and the area will be completely redeveloped with a new primary building ("Main Clubhouse"), two accessory buildings ("Grill Room/Golf Shop" and "Pavilion"), a surface parking lot, outdoor gathering areas, and landscaping enhancements. The Main Clubhouse will generally include the golf course administration offices, locker rooms, lounge and restaurant area, leisure areas, fitness area, and meeting space. The Grill Room/Golf Shop will include a small grill area and golf shop. The Pavilion will house restrooms and changing areas associated with the Event Lawn. Further details related to the floor plans, layouts, and elevations of the buildings can be found later in this section or in the architecture sheets of the plan submittal.

The proposed surface parking area will provide 175 spaces (including some parking under the Main Clubhouse) and a customer drop-off/loading area will allow access to the main entry of Clubhouse. Additionally, golf cart storage will be located under the Main Clubhouse. All of the mature trees on perimeter of clubhouse parcel will be retained and new landscaping material will be installed between the existing trees to create a refreshed landscaping plan and to satisfy the vegetative buffer requirements of the Town Code (refer to the Landscape Plans in the plan submittal). A wall/wrought iron fence combination with a continuous hedge as shown on the Site Plan in the plan submittal will surround the parking area to screen the view of the parking lot from the surrounding neighborhoods.



Proposed clubhouse site plan (refer to plan submittal for enlarged version)

Golf Course Redevelopment

The intent for the golf course redevelopment is to create a completely revitalized golf experience. The original designer of the golf course, Donald Ross, was a famous designer that worked on many highly regarded courses throughout his career. Many of the principles applied by Ross during the original construction such as strategic bunkering, dramatic green contours, wide corridors to promote playability, and interesting green surrounds will be incorporated into the work. The wide corridors mentioned above are a fundamental criteria for achieving the desired strategy and playability. Golfers tend to spray shots across a wide dispersion so “wider” golf holes are more playable than more narrow golf holes. Wider golf holes also help set up strategy by creating a “reward” (an easier route to the hole) for being on the “proper” side of the hole; so a wider golf hole will help to exaggerate the reward. The site conditions today have considerably more vegetation and mature trees than the era of the original construction and in fact, many trees on the edges of golf holes have become overgrown. Recapturing some of the original corridor widths is an important part of the golf course redevelopment and this will help reintroduce the spirit of the original playability and strategy created by Ross.

From a technical standpoint, it is the intent to completely reconstruct all features to meet or exceed modern golf construction standards. This includes the replacement of all infrastructure such as drainage, irrigation, golf features (greens, tees, and bunkers), grass, and cart paths. Further, the proposed lakes have all been redesigned to best accommodate storm events. Most of the golf holes will be rebuilt exactly in place; the minor adjustments that have been proposed will allow the golf course to better accommodate advances in modern golf equipment.

The applicant is sensitive to preserving the vegetation and existing buffer along the project boundaries and adjacent to residential properties. Where perimeter vegetation currently exists between the homes and the golf course, the vegetation will remain undisturbed. In areas that currently have no vegetation between homes and the golf course, trees and shrubs will be added to satisfy the vegetative buffer requirements of the Town Code (refer to the Landscape Plans in the plan submittal). Many of the mature, Florida native trees within the golf course will also be retained. New understory vegetation will be added in some areas between holes to create another layer of texture and color underneath the taller trees.

Other miscellaneous details include: the existing golf cart crossings over Poinsettia Road will remain and restroom structures will be improved using the same architectural themes of the new clubhouse.

Proposed golf course redevelopment area (refer to plan submittal for more detailed golf plans)

PROPOSED BUILDINGS

The Pelican Golf Club redevelopment plan includes three buildings as part of the clubhouse area and two restroom buildings as part of the golf course. All buildings include complementary architecture and construction materials. Elevations, layouts, and floor plans can be found in the architecture sheets in the plan submittal.

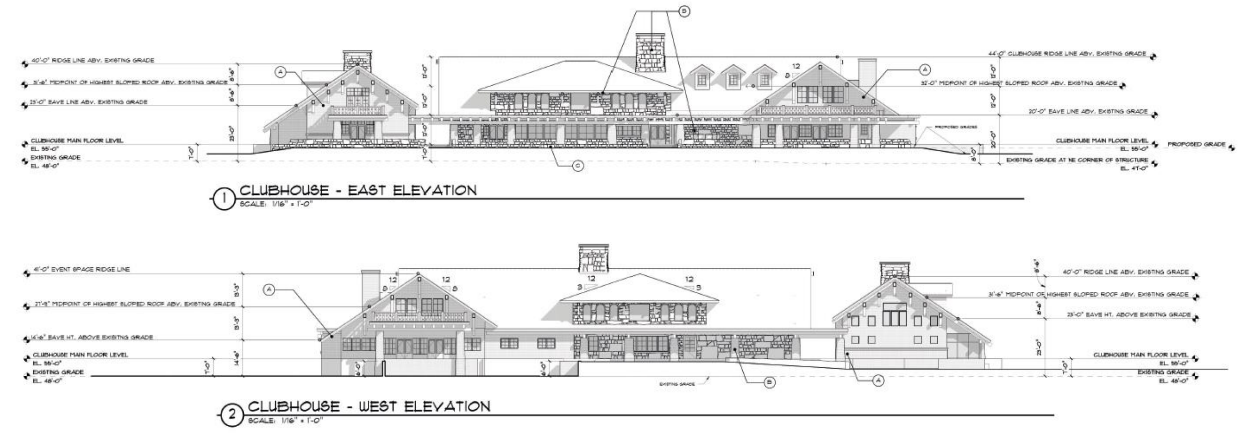
Clubhouse Buildings

The clubhouse portion of the project includes three separate buildings; (i) the Main Clubhouse building, (ii) the Grill Room/Golf shop, and (iii) the Pavilion. These buildings are clustered at the project entry and accessible from the main customer parking lot and via interconnected pedestrian pathways.

Main Clubhouse Building

The Main Clubhouse building is designed with classic Florida vernacular architecture in terms of roof form, porches, breezeways, and window detail. The materials include a mix of white-wash brick, stone with mortar, concrete shingles, and wood accents. Refer to the architecture sheets in the plan submittal for specifics on floor plans of each building.

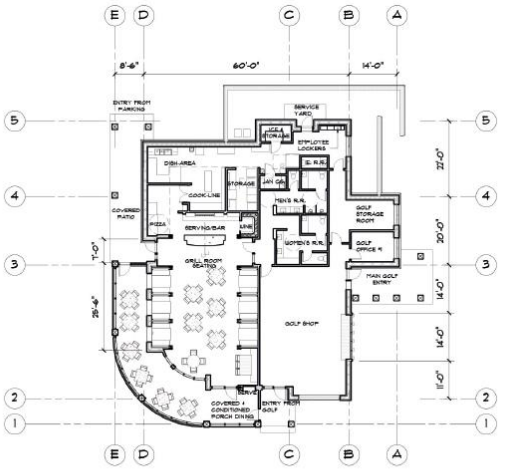
The Main Clubhouse is designed as a three level building consisting of a basement and two stories above grade; the dimension to the midpoint of the highest sloped roof of this structure is 32'. The main floor includes the primary reception areas, board room, locker rooms, event space, and kitchen/dining area; also several gathering areas are planned on the porches, breezeways and patios. The second level includes administrative offices and a fitness area. The lower level includes mechanical areas, operational functions, vehicle parking and golf cart storage. The Main Clubhouse building is intended to enhance the experience for the golf course patrons and accommodate administrative functions. The clubhouse also has meeting space to host periodic, private events by invitation only.

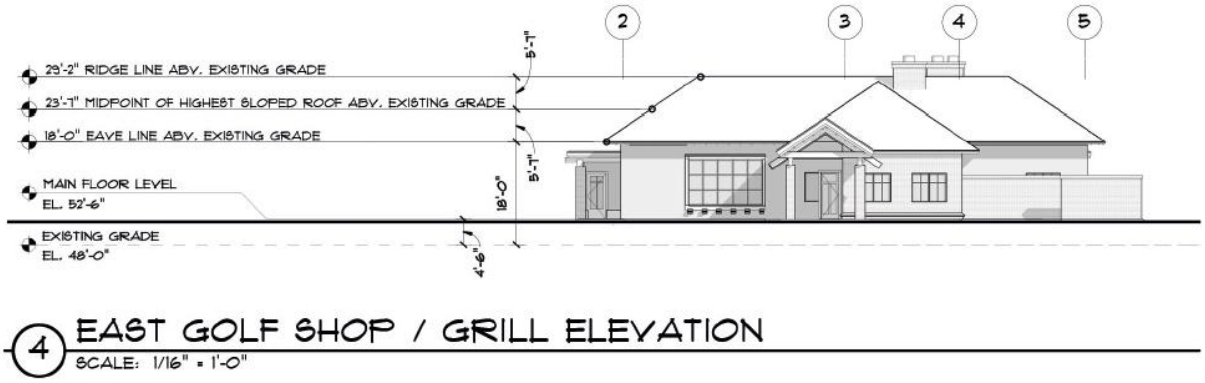


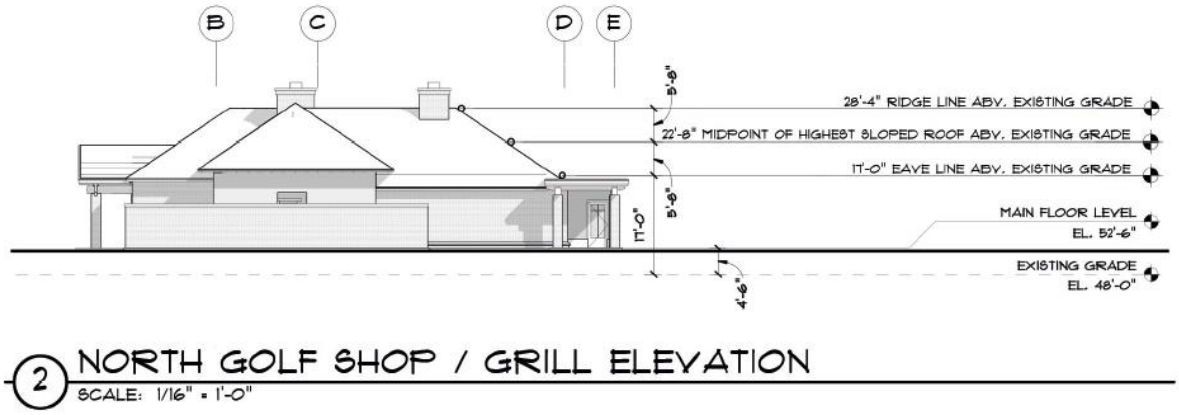
Example elevations and precedent imagery for Main Clubhouse (refer to architecture sheets in plan submittal for all elevations and full size plans)

Grill Room/Golf Shop

The second building includes a restaurant/grill and a golf shop. The golf shop will serve as the main check-in point for golfers and will sell goods and services that are intended to cater to golf course patrons. The restaurant/grill room is a small, full service eatery that is intended to serve golf patrons with relatively quick food options. The grill room includes an inside dining area and outside porch setting. The building will complement the clubhouse in terms of architectural style and construction materials. The dimension to the midpoint of the highest sloped roof of this structure is 23'7".



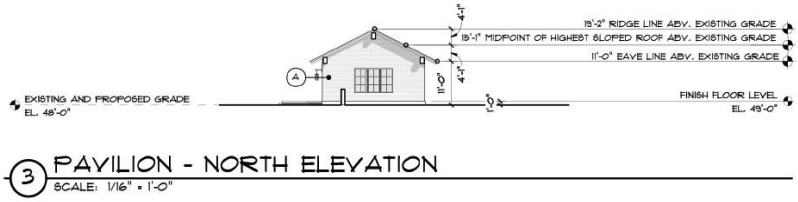


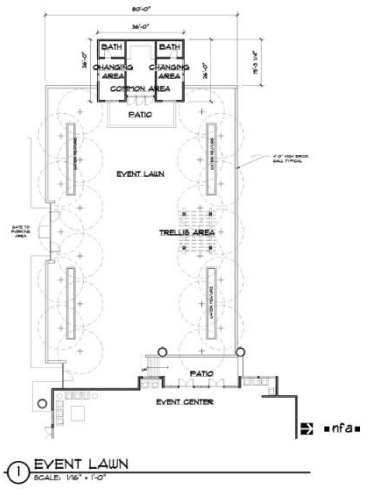


Floor plan and example elevations for Grill Room / Golf Shop (refer to architecture sheets in plan submittal for all elevations and full size plans)

Pavilion

The small Pavilion is located close to the Main Clubhouse and is part of an Event Lawn. The Pavilion includes a small lounge area for changing rooms and restrooms. The Pavilion is designed to architecturally complement the other buildings in the club house portion of the project in terms of style and construction materials. The dimension to the midpoint of the highest sloped roof of this structure is 15’1”.

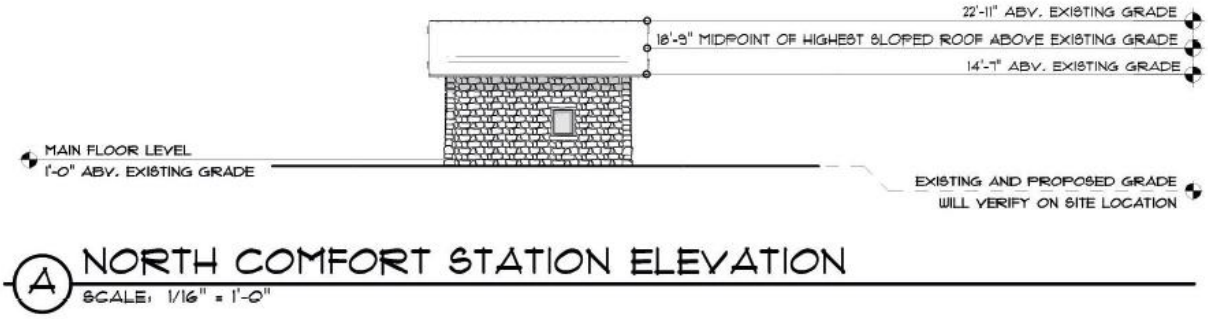




Example elevation and floor plan for Pavilion (refer to architecture sheets in plan submittal for all elevations and full size plans)

Golf Course Buildings

The golf course will include two (2) restroom (comfort station) buildings. One restroom building will be placed on each side of Poinsettia Road. These buildings are intended to provide convenience to golf course patrons while playing the holes. The restroom buildings are designed to complement the architectural style and form of the main clubhouse buildings; similar materials are echoed through the project. The dimension to the midpoint of the highest sloped roof of these structures is 18’9”.



Example elevation for restroom buildings (refer to architecture sheets in plan submittal for all elevations and full size plans)

Signage at Entry

Signage is planned to include the same architectural and material themes found on the proposed buildings. Signs will comply with Town of Belleair standards and will be designed and permitted as part of the construction plan / building permit phases of the project. The applicant will commit to signage designs that incorporate the same quality of materials, colors, and styles as proposed on the project buildings.

Wall and Fence Around Parking Lot

A wall and fence combination is proposed around the parking lot. The materials for the proposed wall will be solid brick with a white-wash finish to match the clubhouse, while the fence will be made out of wrought iron. Outside of the combination wall/fence, new landscaping will be installed to achieve the 15' wide Type-A or Type-B landscape buffer (depending on type of frontage road) requirements defined by Town Code. The intent is that this combination of wall, fence, and landscaping will create a visually pleasing entry feature. The wall will also, in conjunction with the landscape buffer, create a screen for the parking lot from the surrounding neighborhood. The height of the proposed wall will conform to the height standards outlined in the Town code. The location of the proposed wall is 15 feet from the property line and is driven by the need to maximize the area available for the parking lot. This proposed wall location is inside the designated “no structure” setback area which is stipulated as 25 feet. Thus, the applicant is requesting a variance to Section 74-287(e) prohibiting the placement of a wall in the front yard setback area and the primary front yard setback area of corner parcels. Refer to Variance Request #1 at the end of this document for the formal request.

Off Street Loading Zones

The proposed clubhouse has been designed to include one service entrance for the receiving of shipments, unloading of delivery vehicles, etc. This is a standard procedure for golf club operations. The proposed Loading Zone will be accessed by the alternate entry off of Poinsettia Road to minimize potential disruption to everyday customers of the site. In addition, delivery times will be closely coordinated by staff and the access to the service entrance will be closely monitored such that there are no conflicts with other neighborhood traffic. Thus, the applicant is requesting a variance for a reduction in the number of off-street loading zones required per Section 74-173 of the Town Code. Refer to Variance Request #2 at the end of this document for the formal request.

Summary

The following table summarizes some details of the proposed buildings. All other information related to conceptual building architecture can be found on the architecture sheets of the plan submittal.

Building	Area	Midpoint of Highest Sloped Roof
Primary Clubhouse Building	**46,914 -sf**	**32'**
Main Floor	*20,185 -sf*	
Second Floor	*7,074 -sf*	
Lower Level	*19,655 -sf*	
Grill Room / Golf Shop	**5,257 –sf**	**23'7"**
Pavilion (Sitting Lounge)	**844-sf**	**15'1"**
Course Restrooms	**876-sf**	**18'9"**
Restroom 1	*438-sf*	
Restroom 2	*438-sf*	
Total Building Area	**53,891-sf**	
Proposed Floor Area Ratio (FAR)	**0.010**	

PARKING

SUMMARY

The Pelican Golf Club redevelopment plan includes new parking facilities at the clubhouse portion of the project. The proposed plan includes 175 parking spaces provided in a surface parking lot and under the Main Clubhouse. The main parking lot has 145 spaces (including 9 ADA spaces), the side lot has 20 spaces, and an additional 10 spaces are located under the Main Clubhouse. A strict interpretation of the parking requirements in Section 74-172 of the Town code suggests a total of 392 parking spaces are needed (see table below for calculation). Thus the applicant is seeking a variance to reduce the amount of parking required. Refer to Variance Request #3 at the end of this document for the formal request. The following components of this section explain why the parking requirements stipulated in the code should not be applied literally to this project and why 175 spaces will be sufficient based on:

- the intent of on-site uses and their peak hours of operation
- a study of parking comparables at other similar golf course facilities
- the ability to utilize the body of the practice range for overflow parking as needed during occasional special events (another possible 236 spaces)

Parking	Use	Standard	Number/Size	Required
Sec. 74-172(a)16.	Golf Course	6 per hole	18 holes	108
Sec. 74-172(a)15.	Driving Range	1 space per tee	5 tees	5
Sec. 74-172(a)9.	Main Restaurant at Clubhouse*	1 per 75 sf up to 6000 GFA then 1 per 55 sf over 6000 GFA	6,352 sf	86
Sec. 74-172(a)9.	Grill Room at Golf Shop*	1 per 75 sf up to 6000 GFA then 1 per 55 sf over 6000 GFA	2,464 sf	45
Sec. 74-172(a)19.	Fitness Center	1 per 150 sf GFA	3,257 sf	22
Sec. 74-172(a)20.	Public Assembly / Conference Facility (non fixed seats)	1 per 35 sf GFA	4,091 sf	117
Sec. 74-172('e)[1]	Special Parking (ADA)	§316.1955 F.S	401-500	9
			Total	**392**

*Requirement calculated based on 8,816 sf TOTAL of restaurant

Gross Square Footage per Revised Architectural Plans

Restaurants (areas in sf)				
Main Building	Lower Level	*Kitchen and Prep Area*	1,043	
	Main Level	*Lounge + Bar*	1,288	
		Open Dining	1,602	
		Kitchen	2,419	6,352
Grill Room at Golf Shop		*Dining (In and Out)*	1,572	
		Service Bar	227	
		Kitchen	665	2,464
			8,816	
Other (areas in sf)				
		Event Space (assembly)	4,091	
	Upper Level	*Fitness Center*	3,257	

Onsite Uses and Peak Hours of Operations

The proposed buildings, and the corresponding uses in the proposed buildings such as grill room, restaurant, fitness center, driving range and pro shop, primarily exist to support the golf course operations. The proposed uses for the buildings are not typical “stand alone” uses; in fact, most of the proposed uses will be used by golfers on property who may visit the golf course, driving range, pro shop, grill room, and fitness center during one visit. Section 74-172 of the Town code only provides for “stand alone” uses, but there should be a mechanism to allow for the sharing of parking between several uses on one property.

Further, some brief details about how the various uses will be operated:

- Golf course tee times are expected to be 10 minute to 12 minute intervals; thus it is programmed that only 1 group will be on a hole at a time (corresponding to 4 cars / hole)
- The restaurant in the main clubhouse will be closed during lunch hours; thus, peak time at the restaurant (evening / night) will predominantly correspond with the golf course being closed.
- The main use for the grill room will be to serve food to golfers already on site to play golf; it is not intended that this space will be marketed as a separate destination. Also, it is expected that the Grill will operate from 8 AM to 4 PM and thus will not provide dinner service.
- The pro shop will act as the main point of check-in and check-out for golfers who are already on site to play golf and thus additional spaces are also not needed solely for the pro shop.
- The driving range will primarily support golfers and it will not be marketed to attract golfers only interested in practicing
- The intent for the meeting space is that it will be operated as a convertible type space that could be divided into 3 small rooms, 2 slightly larger rooms or 1 large room. It will be used for various types and sizes of meetings or parties held by professional associations, private functions, family events, etc. that are by invitation only. These events will happen on an irregular schedule and are not expected to occur on a daily basis. At peak times, the applicant is prepared to provide overflow parking as necessary on the body of the driving range.

The following table depicts how it is expected that each element will be used during an average day.

	Employee Parking	Golf Course and Golf Shop	Driving Range	Grill Room at Golf Shop	Fitness Center	Restaurant and Lounge	Clubhouse Meeting Rooms	Projected Number of Spaces Used	Projected Number of Spaces Available (not Including 9 ADA)
6 AM - 7 AM	20	10	0	0	22	0	0	**52**	**114**
7 AM - 8 AM	20	30	0	5	22	0	0	**77**	**89**
8 AM - 9 AM	20	45	3	5	22	0	0	**95**	**71**
9 AM - 10 AM	20	72	3	5	22	0	0	**122**	**44**
10 AM - 11 AM	20	72	5	5	12	0	0	**114**	**52**
11 AM - 12 PM	20	72	5	5	12	0	0	**114**	**52**
12 PM - 1 PM	20	72	5	10	12	0	0	**119**	**47**
1 PM - 2 PM	20	72	5	10	12	0	0	**119**	**47**
2 PM - 3 PM	20	72	5	5	7	0	0	**109**	**57**
3 PM - 4 PM	20	50	5	5	7	0	0	**87**	**79**
4 PM - 5 PM	20	20	5	0	22	0	0	**67**	**99**
5 PM - 6 PM	20	15	0	0	22	40	0	**97**	**69**
6 PM - 7 PM	20	10	0	0	10	86	0	**126**	**40**
7 PM - 8 PM	20	5	0	0	3	86	0	**114**	**52**
8 PM - 9 PM	20	0	0	0	2	86	0	**108**	**58**
9 PM - 10 PM	20	0	0	0	2	50	0	**72**	**94**

Assumptions

1. 166 Total Parking Spaces (Not Including 9 ADA Spaces)
2. Peak Golf Course Use is 9 AM - 3 PM; Golf Course Parking Peaks at 4 Cars / Hole = 72 Total Spaces
3. Driving Range Hours of Operation are 8 AM - 5 PM with Peak Between 10 AM - 5 PM; Parking Peaks at 5 Spaces per Town Code
4. Golf Shop Hours of Operation area 8 AM - 6 PM and ONLY Used by Golfers
5. Grill Room at Golf Shop Hours of Operation are 8 AM - 4 PM and ONLY Used by Golfers Except for Small Group of Lunch Customers from 12 PM - 2 PM (10 Cars)
6. Fitness Center Hours of Operation are 6 AM - 10 PM with Peak Uses from 6 AM - 10 AM and 4 PM - 6 PM; Fitness Center Parking Peaks at 22 Spaces per Town Code
7. Restaurant and Lounge Hours of Operation are 5 PM - 10 PM with Peak Use from 6 PM - 9 PM; Parking Peaks at 86 Spaces per Town Code

Since the meeting rooms will not be programmed to be used every day, no parking was assigned to this use in the table above. But the table demonstrates that, between the hours of 9 AM – 5 PM, there is an adequate surplus of parking spaces available that will accommodate the occasional special events that will occur in the meeting rooms.

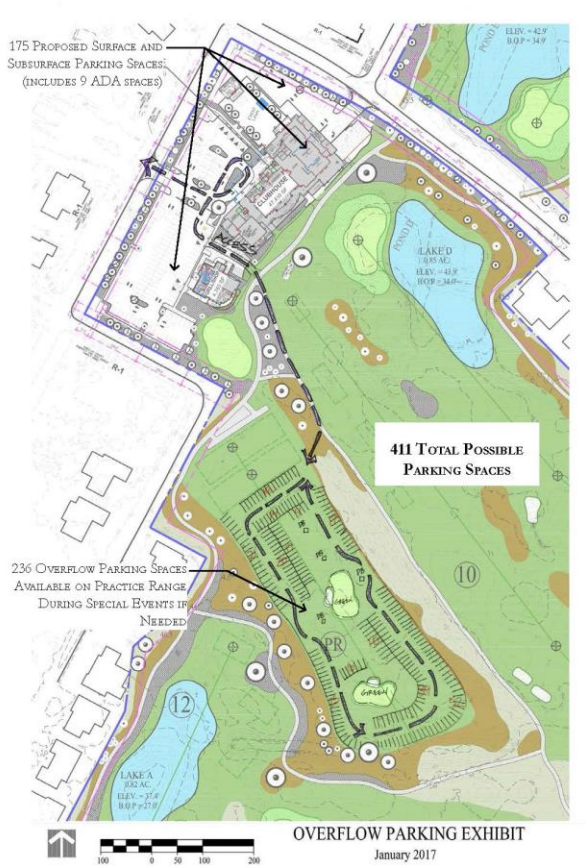
Comparables of Parking at Other Golf Courses

Literal interpretation of the provisions of this Code would treat each proposed use on the property as "stand alone" uses and would require 392 parking spaces. This amount of parking would be a tremendous outlier in the world of operating golf courses. To create a "real world" baseline for how other golf courses in the area operate, several local golf clubs were analyzed. These numbers are also consistent with national standards where 18 hole golf courses routinely operate at less than 200 parking spaces. As shown in the table depicted below, the 175 parking spaces proposed at Pelican Golf Club would be more than the average parking available at several local golf courses.

Golf Course	Number of Holes	Estimated Number of Spaces
Bellair Country Club	36	250
Olde Memorial Golf Club	18	197
Westchase Golf Club	18	194
Avila Golf and Country Club	18	140
Cheval Golf and Athletic Club	18	128
TPC Tampa Bay	18	214
Average Per 18 Holes		**143**

Overflow Parking During Occasional Special Events

During extreme special events, the applicant has agreed to use the body of the practice range as a designated area for overflow parking if necessary. See below for a diagram showing 236 available overflow parking spaces. It is the intent that this overflow area will only be accessed by valet staff specifically trained in how the area should be used with regard to access and traffic flow. Also, as shown on the diagram, the overflow spaces have been carefully laid out to remain in higher areas and avoid elements such as possible low wet areas, greens, bunkers, etc. Further, if the overflow parking area is being used for car parking, the practice range will be closed to users and no golf cart traffic will be allowed in the area to eliminate potential conflicts between golf carts and cars.



Conclusion

It has been demonstrated that the hours of peak demand for parking associated with the different uses do not normally overlap and would not require 392 spaces on site as stipulated by the Town code. It has also been demonstrated that 175 parking spaces would be sufficient based on a comparable study of available parking at other golf clubs with similar programming in the area. Further, the applicant has identified an area for overflow parking that might be needed during occasional special events. Thus, the applicant's request for a reduction in the number of parking spaces required per the Town Code should be granted allowing for 175 on-site spaces. Refer to Variance Request #3 at the end of this document for the formal request.

LANDSCAPING

Summary

The applicant intends to preserve all vegetation along the project boundaries and adjacent to residential properties. Within the golf course property, trees have been proposed to be removed to allow for necessary construction activities. Removal of trees in some areas and cleaning up (pruning, removal of dead wood, etc.) of the remaining trees will create the foundation for the additional landscaping to be planted as shown on the Landscape Plans. The end result of the Landscaping Plan, both along the edges and within the golf course, is to have large trees and understory trees accented with pockets of colorful shrub-type plantings.

Within the property, the trees that are proposed to be removed are associated with various construction activities such as: grading for the new lake system, grading to improve drainage, removing of several open ditches (by adding pipe and grading), adjustments that will allow the new holes to better accommodate modern equipment, building of the new clubhouse, and a general widening of the most narrow of the existing golf corridors to create a more playable golf experience. It is the intent that all cleared trees will be chipped on site and reused on site as mulch. It is also important to note again that none of the perimeter trees between golf course and existing residences are proposed for removal.

The construction improvements associated with drainage and the new lake system are a critical part of the proposed work as the golf course currently has many areas that lack surface drainage, lack drainage pipe, or utilize open ditches that are unsightly and a hazard for golfers. Insufficient drainage can also cause tremendous daily challenges for the golf maintenance team and compromise their ability to maintain healthy turf.

The information shown on the Landscaping Plans in the plan submittal includes:

- detailed list of all trees identified for removal
- indication of which of the trees to be removed require mitigation as identified by the Town
- list of type, size, quantity, and species of material to be replanted
- location of material to be replanted

As outlined in the following “Details” section, the amount of proposed replanting does not meet the amount of proposed replanting suggested by the Town code. Thus, the applicant is requesting a variance to the replanting requirements stipulated in the Town code. Further information in support of the variance request can be found in this Landscaping section, while the specifics for the variance request can be found in Variance Request #4 at the end of this document.

With regard to buffer application, it is the intent that this project will be screened by vegetation as much as possible from adjacent roads and residences.

At the clubhouse area, Type-A and Type-B buffer requirements will be met as depicted on the plans. In addition, a continuous hedge and a combination wall of brick and wrought iron will be planted to surround the parking area to screen the view from the surrounding neighborhoods. Most of the internal landscaping that is located around the existing clubhouse building and within the existing parking areas will be removed; new landscaping will be placed around the new buildings, within courtyards, and within the new parking areas. The large trees on the edges of the clubhouse parcel will remain and they will be enhanced with understory plantings.

Regarding landscape buffer application on the golf course perimeter, the Type-A buffer or Type-B buffer will be met at critical interfaces where the golf course is currently exposed (little to no existing vegetation) to surrounding roads and houses, such as:

- Along Golf View Drive and Poinsettia Road
- Behind #1 Green and Behind #2 Green, for example

In areas along the remainder of the golf course perimeter where a buffer of mature trees and shrubs already exist, it is the intent that the existing vegetation will remain as is. Although there is very definitely an existing buffer of mature vegetation in these areas, they may not technically conform to the buffer requirements listed in the Town code. Thus, the applicant is requesting a variance to the buffer required along the perimeter of the golf course in areas where mature vegetation already exists. Refer to Variance Request #5 at the end of this document for the formal request.

Details of Tree Removal and Replanting

The tree survey performed for the entire site including the golf course area and clubhouse area counted 2,340 trees. The total number of trees proposed to be removed is 863 trees which corresponds to 13,248". This would still leave 1,477 mature trees on property. The table below provides an overview of some of the trees proposed to be removed. Thus, of the 863 trees proposed to be removed, 558 trees (65%) fall into the categories listed in the table below. A detailed list of the 863 trees (13,248") proposed to be removed was sent to the Town and the Town (Ricky Allison) has designated that 5,281" must be mitigated. This list, along with the designations, can be found on the Tree Removal Plans in the plan submittal.

	Number of Trees
Trees to be Removed Between Golf Holes and Adjacent Housing	0
Trees to be Removed to Accommodate Lake Expansion	170
Trees to be Removed to Accommodate Filling of Ditch Between Hole 10 Tees and 17 Green	97
Trees to be Removed to Accommodate New Hole 11 Green Location	118
Oleander Trees (hedge) to be Removed to Accommodate Creation of "Wider" Practice Range	105
Trees to be Removed that are Crape Myrtle, Bottle Brush, or Camphor; Considered to be Category 1 Invasive Species in Florida	68
	558

The Landscape Plan demonstrates that 400 trees and 10,500 shrubs will be replanted throughout the golf course and clubhouse area. The 400 trees to be planted adds up to 2,239.5" of trees. The following table shows a breakdown of type and size of the 400 trees to be planted. The 10,500 shrubs will be planted over a 3.9 acre area. The exact locations of the trees and shrubs are shown on the Landscape Plans in the plan submittal.

Type of Tree	Common Name	Caliper	Number of Trees	Inches
Quercus virginiana	Live Oak	18"+	20	360.00
		9"-10"	29	275.50
		6"	81	486.00
		Subtotal	**130**	
Acer Rubrem- Florida Flame (Improved Fall Color)	Red Maple	3"	50	150.00
		Subtotal	**50**	
Pinus Ellioti "Densa"	Densa Pine	6"	64	384.00
		4"	66	264.00
		Subtotal	**130**	
Magnolia grandiflora	Southern Magnolia	6"	30	180.00
		Subtotal	**30**	
Holly (Dahoon / Eagleston)	Holly	3"	20	60.00
		Subtotal	**20**	
Bottle Brush		2"	20	40.00
		Subtotal	**20**	
Crape Myrtle		2"	20	40.00
		Subtotal	**20**	
		TOTAL	**400**	**2,239.50**

The scope of the proposed replanting also includes installation of underground irrigation for watering of the planted materials, staking of trees / plants as necessary for support, and mulching of the landscaped areas.

Conclusion

The size and scale of this approximately 135 acre property make a strict application of the replanting requirements in the code challenging. Even after the removal of the proposed 863 trees, there will be 1,477 mature trees remaining. Then, an additional 400 trees and 10,500 shrubs will be replanted. From a big picture perspective, the end result will still be a large green space (the golf course) containing a large amount of mature trees and vegetation.

The applicant has also committed a significant amount of resources to the irrigating, planting, and mulching of the items shown on the Landscaping Plan. Additional requirements imposed on landscaping could put an undue financial burden on the project.

Further, a major intent of the golf course redevelopment is to recapture the playability and strategy elements found in the original Donald Ross design. The fundamental drivers of these elements are width and play space. There has been almost 100 years of tree growth (with minimal removal through the years as seen from periodic aerial photos) on the site since original construction and thus some tree removal is necessary to reestablish corridors more like the original corridors.

Given the scale of this property, the significant resources associated with the proposed Landscaping Plan as is, and the intent to recapture some of the original corridor widths in the manner of Ross, the applicant requests a variance to the tree replacement conditions stipulated in Section 74-383(b)(1), Section 74-383(b)(2), and Section 74-383(b)(3) allowing the project to proceed with the tree removal and replanting detailed above and indicated on the plans. See Variance Request #4 for the formal request.

Regarding the perimeter landscape buffer requirements, the Landscape Plans demonstrate that the Type-A buffer or Type-B buffer will be achieved around the perimeter of the Clubhouse parcel and areas of the

golf course perimeter that are currently exposed to surrounding elements (such as along Golf View Drive, Poinsettia Road, behind #1 green, and behind #2 green to name a few). The remainder of the golf course perimeter has large trees and shrubs which already effectively serve the purpose of creating a buffer. Further, as pointed out by the Town in previous correspondence, it may not be “practical or feasible” to create the required buffer around the entire perimeter of the golf course. For these reasons, the applicant requests a variance to the buffer requirements set forth in Section 74-232(b) and to allow the project to proceed with the tree replanting detailed in the landscape plans. See Variance Request #5 for the formal request.

STORMWATER SUMMARY

Existing Condition

The Pelican Golf Club is located on the upper limit of the Belleair Creek / Rattlesnake Creek basin. Stormwater runoff generally sheet flows from south to north to the existing depressed areas within the golf course and eventually discharges to the existing ponds and ditches.

There are seven existing ponds within the project limits; four of them are located south of Poinsettia Road and the other three are on the north side. The four existing ponds that are located south of the Poinsettia Road are interconnected by an open conveyance system; which discharges to the north via a closed conveyance system across the Poinsettia Road (between the residential properties).

Proposed Condition

The proposed stormwater facilities including collection, conveyance and storage facilities mimics the existing condition. There are seven proposed ponds which are located in the same general locations as what exists.

The stormwater runoff from the proposed club house and the parking area will be collected and conveyed to Pond D for treatment and attenuation. The hydrology and hydraulic for existing and proposed conditions are modeled in ICPR to ensure the proposed project would not have any adverse impact on the adjacent properties.

Southwest Florida Water Management District criteria is used to analyze the hydrology and hydraulics for the existing and proposed conditions. The project site is located with an open drainage basin. Therefore, the 25-year storm event proposed construction flow rate will be equal to or less than the existing condition.

The following drainage criteria and assumptions were used in the development of the drainage design:

- Curve Number Calculation:
  - Based on SCS “Urban Hydrology for Small Watersheds”
  - (TR-55) Table 2.2a.
- Pipe Materials:
  - Pipe material is optional however, the maximum Manning’s “N” Coefficient of the pipe is 0.012
- Minimum Time of Concentration, Tc=10 minutes.

The stormwater analyses are included in Appendix A.

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) for Pinellas County and Incorporated Areas Panel 12103C0116H show that the project area is above the 100-year flood elevation. Therefore the proposed project will have no floodplain impact. The plan sheets include detailed design relating to stormwater management.

CULTURAL AND WELLHEAD SUMMARY

The project includes a cultural resource and wellhead analysis. This analysis is displayed on separate plan sheets. The project is expected to have no impact on these existing features in and around the projects.

Cultural Resources

There are several Florida Master Site File of Historical Resources and Locally Designated Resources within a 1,000-ft buffer from the project. These historic features/structures are depicted on the Locally Designated Resources sheet; all are located within the surrounding neighborhoods. The proposed uses, structures, and site modifications are expected to have no negative impacts on these resources.

Wellhead Protection

There are several wells within a 1,000-ft buffer from the project. These wells are depicted on the Wellhead Protect Area plan sheets. The project is not expected to negatively impact any existing wells located on adjacent properties. The site includes an existing and replacement well located within the golf course portion of the project.

The existing well we be abandoned in accordance with all applicable SWFWMD regulations. The proposed replacement well will replace the existing deep well and will be constructed into the Floridian aquifer, same as the existing well. The replacement well will be located within 300 ft. of the existing well and located centrally and internally within the Pelican Golf Club boundary. There will be no direct connection to the surficial aquifer or water table. Also, a revised reclaimed water agreement is being negotiated which will allow the Town to supply two hundred ninety thousand (290,000) gallons of reclaimed water per day to the Pelican Golf Club or more to the extent larger quantities are available. Further analysis and design detail will be provided as part of the construction plan/building permit phase of the project.

FORMAL VARIANCE REQUESTS

Please refer to the letter at end of this section authorizing the applicant to submit variance requests. Also, the fees associated with all variance requests will be delivered separately to the Town.

TOWN OF BELLEAIR
901 Ponce de Leon Blvd.
Belleair, Florida 33756-1096
Phone: (727) 588-3769 ext. 215
Fax: (727) 588-3768

DATE January 10, 2017

To the Town Commission of the Town of Belleair, Florida

1. The undersigned, Dan Doyle, owner of Lot* ____ Block* ____, Subdivision* Refer to Legal Description on the attached Boundary Survey prepared by FDC dated 11.23.16, property Commission of the Town of Belleair for a variance on the above-described property.

2. The property is presently zoned Golf Course.

3. The present land use on the property is Recreation / Open Space.

4. The decision involves Article IV Section 74-287(e) of the Belleair Land Development Code.

5. The Commissions power arises under Article V, Section 66.253 of the Belleair Land Development Code.

6. The Relief prayed by the applicant is: Request permission to construct a combination wall and fence 15 feet from property line.

7. The Justification for the request is (requests for the variances must demonstrate the practical difficulty or unnecessary hardship which justifies the variance): The applicant would like to create a wall (outside of required landscaping buffer) that acts as visually attractive entry feature and still maximizes the space available for a parking lot. Refer to Variance Request #1 for further details.

8. Attached is a non-refundable fee to defray expenses incurred by the Town of Belleair in processing this application (** Note: All costs incurred by the Town of Belleair, above and beyond the variance application fee, will be the responsibility of the applicant regardless of approval or denial of the request**)

9. I am aware that this request will be voided should I or my representative fail to appear at the public hearings scheduled to consider this request.

10. I am aware that any variance that may be granted will automatically expire twelve months after approval by the Town Commission unless a building permit id produced from the Town with respect to the improvements contemplated by this application for variance within said twelve month period unless the construction of said improvements is promptly commenced pursuant to the building permit and diligently pursued to completion thereafter.

FEE: $300.00

Paid: ____

Dan Doyle, Jr.
Owner
c/o Tom Nash; PO Box 1669; Clearwater, FL 33756
Address
727-441-8966
Telephone Number

Section 28, Township 29 South, Range 15 East,
Town of Belleair, County of Pinellas, State of Florida

SURVEYOR'S REPORT

MAP OF BOUNDARY SURVEY:

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER. (SEE SHEET INDEX IN TITLE BLOCK)

LEGAL DESCRIPTION:
(SEE DATA SOURCES 2)

PARCEL IV - PELICAN GOLF COURSE PROPERTY

ALL OF PELICAN GOLF COURSE, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, EXCEPT THE PORTIONS THEREOF DESCRIBED AS FOLLOWS:

EXCEPTION 1: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 550.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 80.0 FEET; THENCE SOUTH 04 DEG. 44'21" WEST, 128.16 FEET; THENCE NORTH 64 DEG. 42'17" WEST, 125.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 120.0 FEET TO THE POINT OF BEGINNING.

EXCEPTION 2: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 410.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 125.0 FEET; THENCE SOUTH 45 DEG. 51'05" WEST, 128.16 FEET; THENCE NORTH 64 DEG. 42'17" WEST, 80.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE 120.0 FEET TO THE POINT OF BEGINNING.

EXCEPTION 3: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 310.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 125.0 FEET; THENCE SOUTH 25 DEG. 17'45" WEST, 100.0 FEET; THENCE NORTH 64 DEG. 42'17" WEST 125.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 100.0 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH THOSE CERTAIN RIGHTS, DUTIES AND OBLIGATIONS SET FORTH IN MEMORANDUM OF AGREEMENT BETWEEN POSITIVE COMPANY AND TOWN OF BELLEAIR RECORDED IN OR BOOK 6536, PAGE 1095, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA.

ACCURACY:

1. THE ACCURACY STANDARD USED FOR THIS SURVEY, AS CLASSIFIED IN THE STANDARDS OF PRACTICE (5J-17 FAC), IS "COMMERCIAL/HIGH RISK". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1 FOOT IN 10,000 FEET.

2. HORIZONTAL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.

3. THE PRIMARY HORIZONTAL CONTROL POINT POSITIONS FOR THIS SURVEY WERE ESTABLISHED FROM A MINIMUM OF TWO (2) KNOWN NATIONAL GEODETIC SURVEY (NGS) CONTROL POINTS USING REAL TIME KINEMATIC SESSIONS. THE MAXIMUM POSITIONAL UNCERTAINTY OF THE PHYSICAL PRIMARY CONTROL POINTS IS COMPUTED TO BE 0.038 FEET (9.753 MILLIMETERS) USING ALGEBRAIC SUM MEAN OF THE PROCESSED POSITIONS.

DATA SOURCES:

1. BEARINGS ARE STATE PLANE AND BASED UPON THE EAST RIGHT-OF-WAY LINE OF GOLF VIEW DRIVE BEING ASSUMED AS N28°02'59"E AND IS SHOWN ON THE MAP OF SURVEY.

2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A COMMITMENT FOR TITLE INSURANCE PREPARED BY LAWYERS TITLE INSURANCE CORPORATION, ORDER NUMBER 1042925 - REVISION 13, CUSTOMER REFERENCE NUMBER 40225443FC/28987/NCS, EFFECTIVE DATE: FEBRUARY 14, 2007 AT 8:00 A.M. THE LEGAL DESCRIPTION SHOWN HEREON IS AS IT APPEARS AS PARCEL VI IN SAID COMMITMENT. A NEW TITLE COMMITMENT WAS NOT PROVIDED FOR REVISION 5. THE ZONING AND SETBACKS WERE NOT UPDATED FOR REVISION 5.

3. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A SURVEY TITLED "BOUNDARY SURVEY PELICAN GOLF COURSE" PREPARED BY GIPPEL; MASTELLER AND KRAVET, ENGINEERING, PLANNING, SURVEYING, FILE NUMBER 6960, DATED APRIL 12, 1990, LAST REVISION DATE APRIL 25, 1990.

4. VARONA STREET LYING SOUTH OF OSCEOLA ROAD AS SHOWN ON THE PLAT OF BELLEAIR ESTATES, PLAT BOOK 18, PAGES 52 THROUGH 57, INCLUSIVE, WAS VACATED BY AN UNRECORDED CERTIFICATE OF A RESOLUTION PASSED BY BOARD OF COMMISSIONERS OF THE TOWN OF BELLEAIR, DATED SEPTEMBER 21, 1955. (THIS INFORMATION WAS SUPPLIED BY THE PINELLAS COUNTY PROPERTY APPRAISERS OFFICE.)

LIMITATIONS:

1. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR/CERTIFIED TO WILLBE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.

2. THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS AFFECTING THIS PROPERTY THAT MAY OR MAY NOT BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

3. LAST DATE OF ORIGINAL FIELD WORK WAS COMPLETED ON 3-19-1997 AND IS CONTAINED IN FIELD BOOK 248, PAGES 56 THRU 61, FIELD BOOK 255, PAGES 57 THRU 70 AND FIELD BOOK 300, PAGES 67 THRU 72; FIELD WORK FOR REVISION 4 WAS COMPLETED ON 3-29-2007 AND IS CONTAINED IN FIELD BOOK 1322, PAGES 7 THRU 10. FIELD WORK FOR REVISION 5 WAS COMPLETED ON 11-23-2016 AND IS CONTAINED IN FIELD BOOK 1835, PAGES 5 THRU 18, AND FIELD BOOK 1836, PAGES 5 AND 6.

4. PRINTED DIMENSIONS SHOWN ON THE SURVEY SUPERSEDE SCALED DIMENSIONS. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.

5. CALCULATED (C) GEOMETRY SHOWN HEREON WAS CALCULATED USING FIELD LOCATED POINTS AND CERTAIN PUBLISHED DATA (SEE DATA SOURCES).

6. SHOWN ANYWHERE ON THIS SURVEY, THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF A PROFESSIONAL OPINION, BASED UPON THE SURVEYOR'S BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT THUS CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY.

7. SUBSURFACE FOUNDATIONS AND COMMON WALLS, ALONG WITH THEIR LOCATIONS HAVE NOT BEEN DETERMINED.

8. IRRIGATION EQUIPMENT AND/OR THEIR APPURTENANCES HAVE NOT BEEN LOCATED UNLESS OTHERWISE SHOWN ON MAP OF SURVEY.

9. THE LOCATIONS OF THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WERE PERFORMED BY A FIELD SURVEY AND ONLY LOCATED AS SHOWN ON THE MAP OF SURVEY. ONLY THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WHICH WERE VISIBLE FROM GROUND LEVEL TO THE SURVEYOR ON THE ACTUAL DAY OF THE FIELD SURVEY WERE LOCATED AND MAPPED. NO EXCAVATIONS OR SUBSURFACE WORK EFFORTS OF ANY KIND WERE PERFORMED BY THE SURVEYOR TO VERIFY THE EXISTENCE OF ANY UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.

10. HORIZONTAL DIMENSIONS FROM BOUNDARY LINES TO LOCATED ITEMS WHICH USE SYMBOLS (SEE SYMBOL LEGEND) ARE MEASURED TO THEIR CENTER.

11. NO MAPPING OF INTERIOR FEATURES WAS PERFORMED. ONLY THE VISIBLE IMPROVEMENTS WHICH ARE NEAR OR CROSSOVER THE SUBJECT PROPERTY BOUNDARY LINES WERE MAPPED AND SHOWN ON THE MAP OF SURVEY.

12. NO INFORMATION ON ADJOINING PROPERTY OWNERS WAS SUPPLIED TO THE SURVEYOR.

13. SUBJECT PROPERTY LIES WITHIN FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN, PER FLOOD INSURANCE RATE MAP, MAP NUMBER 12103C0116H, MAP REVISED MAY 17, 2005.

LIMITATIONS:(CONTINUED)

14. THE SUBJECT PROPERTY IS ZONED GOLF COURSE (GC) ACCORDING TO THE TOWN OF BELLEAIR OFFICIAL ZONING MAP, PREPARED BY THE OFFICE OF THE PINELLAS COUNTY PROPERTY APPRAISER, DATE PRINTED OCTOBER 16, 2003. THE CODE OF ORDINANCES FOR THE TOWN OF BELLEAIR, FLORIDA, PASSED AND ADOPTED ON APRIL 19, 1994 LIST THE SETBACKS AS FOLLOWS:

LOT MINIMUMS
AREA = --
WIDTH = NONE
DEPTH = NONE
DENSITY MAXIMUM DWELLING UNITS PER ACRE = NONE

MINIMUM YARD SETBACKS
FRONT = 25 FEET
SIDE = 25 FEET
REAR = 25 FEET
MAXIMUM HEIGHT = 32 FEET
FLOOD ZONE'S = 36
MINIMUM LIVING AREA PER UNIT = N/A
FLOOR AREA RATIO = TOWN COMMISSION APPROVAL

BOUNDARY INCONSISTENCIES:

ANY ANGULAR AND/OR DIMENSIONAL DISCREPANCIES BETWEEN THE LEGAL DESCRIPTION(S) AND THE FIELD LOCATED OCCUPATION BOUNDARY CORNERS, AND BOUNDARY CORNERS WITH MULTIPLE BOUNDARY MONUMENTS ALONG WITH THEIR CORRESPONDING QUADRANT DIRECTIONAL MISSES, ARE SHOWN ON THE MAP OF SURVEY.

APPARENT PHYSICAL USE:

1. THE SUBJECT PROPERTY (PARCEL IV) IS APPARENTLY BEING USED AS A GOLF COURSE.

EASEMENTS/RIGHTS-OF-WAY:

1. SEE DATA SOURCES 2.

2. SEE LIMITATIONS 2.

THE FOLLOWING ARE ITEMS AFFECTING THIS SUBJECT PROPERTY (PARCEL IV) PER SCHEDULE B SECTION II OF THE TITLE COMMITMENT REFERENCED IN DATA SOURCES 2: (THE NUMBERS SHOWN AS (#) CORRESPOND WITH SAID COMMITMENT)

3. (1) Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment. (NOT A SURVEY MATTER)

4. (2) Taxes and assessments for the year 2007 and subsequent years. (NOT A SURVEY MATTER)

5. (3) Rights of parties in possession, other than the record owner. (NOT A SURVEY MATTER)

6. (4) Any lien, or right to a lien, for services, labor, or materials heretofore or hereafter furnished, imposed by law and not shown by the Public Records. (NOT A SURVEY MATTER)

7. (5) A 10 foot drainage and utility easement along the North boundary of the Plat of Pelican Golf Course recorded in Plat Book 53, Page 45 and 46. (As to Parcel IV). (SHOWN ON MAP OF SURVEY)

8. (6) Agreement recorded in Official Records Book 266, Page 126. (As to Parcel IV). (NOT A SURVEY MATTER)

9. (14) Revocable License Agreement recorded in Official Records Book 5836, Page 919. (As to Parcel IV). (SHOWN ON MAP OF SURVEY AS (D5))

10. (15) Grant of Easement in favor of Town of Belleair, a municipal corporation, as set forth in instrument recorded in Official Records Book 6464, Page 916. (As to Parcel IV) (PERMANENT DRAINAGE EASEMENT (P13) SHOWN AS (D1) AND PERMANENT DRAINAGE EASEMENT (P14) SHOWN AS (D2) ON MAP OF SURVEY. THE TEMPORARY CONSTRUCTION EASEMENTS ARE NOT SHOWN AS THE RECORD DOCUMENT STATES THAT THE TEMPORARY CONSTRUCTION EASEMENTS ARE VALID UNTIL COMPLETION AND ACCEPTANCE OF THE CONSTRUCTION PROJECT OR UNTIL SEPTEMBER 31, 1985, WHICHEVER DATE SHALL FIRST OCCUR.)

11. (10) Agreement by and between Pasteje Corporation and the Town of Belleair, as evidenced by the Memorandum of Agreement recorded in Official Records Book 6536, Page 1095. (As to Parcel IV). (NOT A SURVEY MATTER)

12. (19) Municipal Drainage Easement in favor of the Town of Belleair, Florida, a municipal corporation, as set forth in instrument recorded in Official Records Book 6601, Page 1095. (As to Parcel IV). (GOLF VIEW DRIVE DRAINAGE AREA SHOWN AS (D3) AND POINSETTIA/CYPRESS DRAINAGE AREA SHOWN AS (D4) ON MAP OF SURVEY)

13. (22) Distribution Easement in favor of Florida Power Corporation, a Florida corporation, as set forth in instrument recorded in Official Records Book 7516, Page 1107. (As to Parcel IV). (DESCRIBED AS "that ten foot wide strip of land lying ten feet on each side of the centerline of Grantee's facilities", A NON-PLOTTABLE BLANKET TYPE EASEMENT LYING WITHIN THE ENTIRE SUBJECT PROPERTY)

14. (24) Amended and Restated Easement Agreement by and between MIDD USA, Inc., a Florida corporation and Town of Belleair, a Florida municipal corporation recorded in Official Records Book 9616, Page 1279 (as to Parcel IV). (SHOWN AS (D6) ON MAP OF SURVEY)

15. (26) Corporate Membership Agreement recorded in Official Record Book 12688, Page 2234. (As to Parcel IV). (NOT A SURVEY MATTER)

16. (29) Terms and conditions of all agreements and franchises pertaining to the cost, installation, operation and maintenance of any gaps, water and/or sewer facilities. (As to all parcels). (NOT A SURVEY MATTER)

17. (31) Rights of tenant(s) in possession, if any, under lease(s) not recorded in the Public Records. (NOT A SURVEY MATTER)

18. (39) matters shown on the boundary survey dated March 19, 1907, prepared by Florida Design Consultants, Inc., Project No. 166-01 (As to Parcel IV only). (SEE MAP OF SURVEY)

PROJECT DATUM :

HORIZONTAL:

COORDINATES (IN U.S. SURVEY FEET) ARE BASED ON NATIONAL GEODETIC SURVEY (NGS), STATE PLANE COORDINATES, FLORIDA WEST ZONE, NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT

CONTROL STATIONS UTILIZED:

(1) A FOUND 12" DIAMETER CONCRETE MONUMENT WITH SURVEY DISK STAMPED "BAUDER P", DESIGNATED BY NGS AS "BAUDER P". PID = AG0329 (NORTHING = 1,310,161.29, EASTING = 339,278.06).

(2) A FOUND 12" DIAMETER CONCRETE MONUMENT WITH SURVEY DISK STAMPED "HALL R", DESIGNATED BY NGS AS "HALL R". PID = AG0368 (NORTHING = 1,310,839.47, EASTING = 336,574.59). BOTH PUBLISHED BY THE NATIONAL GEODETIC SURVEY WEB SITE: (http://www.ngs.noaa.gov)

PREPARED FOR:

CARDNO

CERTIFIED TO:

CARDNO
ALLIED/BELLEVIEW, INC.
LAWYERS TITLE INSURANCE CORPORATION
BH & WBC, LLC
URBANA CAPITAL MANAGEMENT, INC.
INTERNODI BANK
LEGG MASON REAL ESTATE INVESTORS, INC. - CRE X, LLC

SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE:

JARED T. PATENAUDE
STATE OF FLORIDA PROFESSIONAL
SURVEYOR AND MAPPER
LICENSE NUMBER LS 6971

DOCUMENT LEGEND

(P1) = Plat Book 53, pg 45
(P2) = Plat Book 18, pg 52
(P3) = Plat Book 53, pg 3
(P4) = Plat Book 2, pg 82
(P5) = Plat Book 40, pg 6
(D1) = OR 6464, PG 915 (P13)
(D2) = OR 6464, PG 916 (P14)
(D3) = OR 6622, PG 891 (GULFVIEW DRAINAGE AREA)
(D4) = OR 6622, PG 881 (POINSETTIA/CYPRESS DRAINAGE AREA)
(D5) = OR 5836, PG 919
(D6) = OR 9616, PG 1279
POB1 = PB 53, PG 45
POB2 = Exception 1
POB3 = Exception 2
POB4 = Exception 3

LINETYPE LEGEND

= Boundary Line
= Center Line
= Easement Line
= Edge of Water
= Jurisdictional Line
= Right-Of-Way Line
= Section Line
= Top Bank or Top of Berm
= Toe of Slope or Grade Break

SYMBOLS LEGEND

= Aerial Target
= Bench Mark
= Cable TV Paint Stripe
= Cable TV Box
= Communications Manhole
= Concrete Light Pole
= Concrete Post
= Concrete Utility Pole
= Drainage Manhole
= Electric Box
= Electric Manhole
= FPC Paint Stripe
= FPC Pedestal
= Fire Hydrant
= Flag Pole
= Gas Line Marker
= Gas Filler Cap
= Gas Valve
= Gas Meter Box
= Gas Line Paint Stripe
= Grate Inlet
= GTE Manhole
= GTE Pedestal
= GTE Marker
= Guy Wire
= Light Pole
= Mail Box
= Metal Post
= Monitoring Well
= Parking Meter
= Reclaimed Water Paint Stripe
= Reclaimed Water Box
= Reclaimed Water Valve
= Sanitary Sewer Manhole
= Sanitary Cleanout
= Sanitary Sewer Paint Stripe
= Section Corner
= Siamese Connection
= Sign
= Sprinkler Control Box
= Sprinkler Head
= Storm Water Paint Stripe
= Traffic Signal Box
= Traffic Signal Pole
= Water Line Paint Stripe
= Water Meter
= Water Valve
= Wood Utility Pole
= Wood Light Pole
= Wood Post
= Point of Elevation
= Calculated Dimension from Structure to Boundary / Right-of-Way Line

ABBREVIATIONS LEGEND

AC = Acres
A/C = Air Conditioner
ADW = Asphalt Driveway
AOS = Advance Drainage Systems
ASPH = Asphalt
B/C = Back of Curb
BCCM = Board of County Commissioners Minutes Book
BFPD = Back Flow Prevention Device
BLDG = Building
BNDY = Boundary
BWF = Barb Wire Fence
(C) = Calculated Data
C/C = Covered Concrete
CCCL = Coastal Construction Control Line
CCR = Certified Corner Record
CDW = Concrete Driveway
CI = Curb Inlet
℄ = Center Line
CLF = Chain Link Fence
CM = Concrete Monument
CMP = Corrugated Metal Pipe
CO = Clean out
CONC = Concrete
COR = Corner
CPB = Concrete Plat Book
C/S = Concrete Slab
C/T = Curb Tie
DB = Deed Book
DCVA = Double Check Valve Assembly
DNR = Department of Natural Resources
DEPT = Department
DIA = Diameter
DIP = Ductile Iron Pipe
DMH = Drainage Manhole
D/W = Driveway
E = East
ECMP = Elliptical Corrugated Metal Pipe
EL = Elevation
EOW = Edge of Water
E/P = Edge of Pavement
ERCP = Elliptical Reinforced Concrete Pipe
ESMT = Easement
(F) = Field Data
FAC = Florida Administrative Code
FCM = Found Concrete Monument
FDOT = Florida Department of Transportation
FH = Fire Hydrant
FIR = Found Iron Rod and Cap
FN = Found Nail
FND = Found
FN&D = Found Nail and Disk
FFE = Finished Floor Elevation
FN&TT = Found Nail and Tin Tab
FOP = Found Open End Iron Pipe
FPB = Florida Power Corporation Box
FPC = Florida Power Corporation
FPP = Found Pinched Iron Pipe
FRRS = Found Railroad Spike
FT = Feet
F/T = Fence Tie
FXC = Found X-cut
G/A = Guy Wire Anchor
GE = Grate Elevation
GI = Grate Inlet
GV = Gas Valve
IE = Invert Elevation
INV = Invert
LB = Corporate Certification Number
LP = Light Pole
LS = Licensed Surveyor
MAS = Masonry
MES = Mitered End Section
MH = Manhole
MHW = Mean High Water
MOL = More or Less
N = North
N/C = No Cap
N/F = Not Found
NAD = North American Datum
NAVD = North American Vertical Datum
NGS = National Geodetic Survey
NGVD = National Geodetic Vertical Datum
NKA = Now Known As
NP = Normal Pool Elevation
(NR) = Non Radial
O/A = Overall
OHW = Overhead Wire
OR = Official Record Book
(PA) = Property Appraisers Map Data
PB = Plat Book
PC = Point of Curvature
PCED = Pasco County Engineering Department
PCP = Permanent Control Point
PG(S) = Pages
PI = Point of Intersection
PID = Permanent Identification Number
℄ = Property Line
PLS = Professional Land Surveyor
POB = Point of Beginning
POC = Point of Commencement
POL = Point on Line
PRM = Permanent Reference Monument
PSM = Professional Surveyor and Mapper
PT = Point of Tangency \ Point
PVC = Polyvinyl Chloride Pipe
(R) = Recorded Data
RCP = Reinforced Concrete Pipe
RLS = Registered Land Surveyor
RNG = Range
R/W = Right of Way
S = South
SCM = Set Concrete Monument, 4"x4", PRM LB 6707
SCM(W) = Set Concrete Monument, 4"x4", FDC LB 6707 WITNESS PT
SEC = Section
SHW = Seasonal High Water Elevation
SIR = Set 5/8"Iron Rod and Cap FDC LB 6707
SIR(T) = Set 5/8"Iron Rod and Cap, FDC LB 6707 TRAV PT
SIR(W) = Set 5/8"Iron Rod and Cap, FDC LB 6707 WITNESS PT
SMH = Sanitary Manhole
SN&D = Set Nail and Disk
SN&D(T) = Set Nail and Disk, FDC LB 6707 TRAV PT
SN&D(W) = Set Nail and Disk, FDC LB 6707 WITNESS PT
SQ = Square
SR = State Road
STY = Story
S/W = Sidewalk
TBM = Temporary Benchmark
TOB = Top of Bank
TRAV = Traverse
(TYP) = Typical
TWP = Township
U/P = Utility Pole
VCP = Vitrified Clay Pipe
W = West
W/ = With
WF = Wood Fence
WF = Wire Fence
WM = Water Meter
WPP = Wood Utility Pole
W/T = Wall Tie
WV = Water Valve
xx° = Degrees
xx' = Minutes (Bearings)
xx" = Seconds (Bearing)
xx' = Feet (Distances)

LAST DATE OF FIELD WORK REVISION 5: 11-23-16
LAST DATE OF FIELD WORK REVISION 4: 3-29-07
THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER

DRAWN: SAA/BDH
CHECKED:
QUALITY CONTROL:

FLORIDA DESIGN CONSULTANTS, INC.
THINK IT. ACHIEVE IT.
3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34655
PHONE: (352) 232-1047 WWW.FLDESIGN.COM L.B. NO. 6707

SUBJECT:
PELICAN GOLF COURSE
(NKA BELLEVIEW BILTMORE GOLF AND COUNTRY CLUB)
PARCEL IV

SHEET DESCRIPTION:
BOUNDARY SURVEY

NO.	DATE	REVISIONS	BY	QUALITY CONTROL
5	12/5/16	UPDATE BOUNDARY SURVEY	CWF	JTP
4	4/5/07	UPDATE BOUNDARY SURVEY	JST	JDK
3	4/5/97	ADD DATA SOURCE 6, ADD TO CERTIFICATION (NO FIELD WORK)	SKA	
2	4/7/97	REVISE DATA SOURCE NOTES 2, 5, LINETYPES (NO FIELD WORK)	SKA	
1	3/28/97	REVISE LIMITATION NOTE 2, EASEMENT NOTE 8 (NO FIELD WORK)	SKA	

SHEET INDEX:
1. SURVEYOR'S REPORT AND LEGENDS
2-4. BOUNDARY DETAIL
5-15. MAP OF SURVEY

ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED.

JOB NUMBER: 2005-0002 FPN: 264
PROJECT DATA BASE: 166-01
FIELD BOOK NUMBER & PAGES: 248/56-61, 255/57-70, 300/67-72, 1322/7-10, 1835/5-18, 1836/5-6
LAST DATE OF ORIGINAL FIELD WORK: 3-19-1997
SCALE: NONE

SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

JARED T. PATENAUDE
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER PSM 6971
STATE OF FLORIDA

SHEET 1 OF 15

VARIANCE REQUEST #1: Request for Variance to Location of Fence and Fence Walls, pursuant to Section 74-287(e) of Town Code.

JUSTIFICATIONS (per Section 66-253(b)(1) of Town Code):

1. Special conditions and circumstances exist which are peculiar to the land, structure or buildings involved.

The applicant would like to create an aesthetic wall feature that would act as an entry statement for the golf course clubhouse. The wall structure would be a combination of solid brick and wrought iron as depicted in the plan. The intent is that the proposed wall and landscaping (15' of vegetative buffer as required by Town Code) will create visual and physical separation between the parking lot and surrounding neighborhood. To maximize the size of the parking lot, it is necessary to push the wall toward the outer perimeter of the clubhouse parcel as much as possible. Thus, the proposed wall location is on the edge of the 15 foot landscape buffer (from property line) and is inside the designated "no structure" setback area which is stipulated as 25 feet from property line.

2. The special conditions and circumstances do not result from actions of the applicant.

The need for the proposed wall location is a function of trying to maximize the size of the parking lot which has been driven by the applicant's attempt to meet the Town's parking code.

3. Literal interpretation of the provisions of this Code would work unnecessary and undue hardship on the applicant.

Literal interpretation of the provisions of this Code would reduce the amount of parking spaces on the site and/or reduce the amount of space available for the greenspace (golf course).

4. The variance, if granted, is the minimum variance that will make possible the reasonable use of the land, structure or building.

The variance requested is the absolute minimum needed in order to create a functional and aesthetically pleasing entry sequence for the proposed project.

5. A grant of variance will be in harmony with the general intent and purpose of this Code, and that such variance will not be injurious to the zoning district involved or otherwise detrimental to the public interest.

The intent of the code is to allow reasonable and appropriate development with the Town and the granting of this variance will not be injurious to the zoning district or otherwise detrimental to the public interest. The end result of this wall will be an aesthetically pleasing wall and landscaping combination.

6. A grant of variance will not result in any land use not specifically provided for in the schedule of district regulations (section 74-82 of this Code) for the zoning district in which the property is located.

The granting of this variance will not result in any adverse land use.

Please refer to the letter at end of this section authorizing the applicant to submit variance requests.

TOWN OF BELLEAIR
901 Ponce de Leon Blvd.
Belleair, Florida 33756-1096
Phone: (727) 588-3769 ext. 215
Fax: (727) 588-3768

DATE January 10, 2017

To the Town Commission of the Town of Belleair, Florida

1. The undersigned, Dan Doyle, Jr., owner of Lot* ____ Block* ____, Subdivision* Refer to Legal Description on the attached Boundary Survey prepared by FDC dated 11.23.16, property Commission of the Town of Belleair for a variance on the above-described property.

2. The property is presently zoned Golf Course.

3. The present land use on the property is Recreation / Open Space.

4. The decision involves Article III Section 74-173(3) of the Belleair Land Development Code.

5. The Commissions power arises under Article V, Section 66.253 of the Belleair Land Development Code.

6. The Relief prayed by the applicant is: Permission to decrease the number of loading spaces provided to 1.

7. The Justification for the request is (requests for the variances must demonstrate the practical difficulty or unnecessary hardship which justifies the variance): The applicant provides an adequate amount of loading space for the uses on the site that have the need. Any additional loading spaces would decrease the parking area. Refer to Variance Request #2 for further details.

8. Attached is a non-refundable fee to defray expenses incurred by the Town of Belleair in processing this application (** Note: All costs incurred by the Town of Belleair, above and beyond the variance application fee, will be the responsibility of the applicant regardless of approval or denial of the request**)

9. I am aware that this request will be voided should I or my representative fail to appear at the public hearings scheduled to consider this request.

10. I am aware that any variance that may be granted will automatically expire twelve months after approval by the Town Commission unless a building permit id produced from the Town with respect to the improvements contemplated by this application for variance within said twelve month period unless the construction of said improvements is promptly commenced pursuant to the building permit and diligently pursued to completion thereafter.

FEE: $300.00

Paid: ____

Dan Doyle, Jr.
Owner
c/o Tom Nash; PO Box 1669; Clearwater, FL 33756
Address
727-441-8966
Telephone Number

Section 28, Township 29 South, Range 15 East,
Town of Belleair, County of Pinellas, State of Florida

SURVEYOR'S REPORT

MAP OF BOUNDARY SURVEY:

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER. (SEE SHEET INDEX IN TITLE BLOCK)

LEGAL DESCRIPTION:
(SEE DATA SOURCES 2)

PARCEL IV - PELICAN GOLF COURSE PROPERTY

ALL OF PELICAN GOLF COURSE, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, EXCEPT THE PORTIONS THEREOF DESCRIBED AS FOLLOWS:

EXCEPTION 1: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 550.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 80.0 FEET; THENCE SOUTH 04 DEG. 44'21" WEST, 128.16 FEET; THENCE NORTH 64 DEG. 42'17" WEST, 125.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 120.0 FEET TO THE POINT OF BEGINNING.

EXCEPTION 2: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 410.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 125.0 FEET; THENCE SOUTH 45 DEG. 51'09" WEST, 128.16 FEET; THENCE NORTH 64 DEG. 42'17" WEST, 60.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE 120.0 FEET TO THE POINT OF BEGINNING.

EXCEPTION 3: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 310.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 125.0 FEET; THENCE SOUTH 25 DEG. 17'45" WEST, 100.0 FEET; THENCE NORTH 64 DEG. 42'17" WEST 125.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 100.0 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH THOSE CERTAIN RIGHTS, DUTIES AND OBLIGATIONS SET FORTH IN MEMORANDUM OF AGREEMENT BETWEEN POSITIVE COMPANY AND TOWN OF BELLEAIR RECORDED IN OR BOOK 6536, PAGE 1095, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA.

ACCURACY:

1. THE ACCURACY STANDARD USED FOR THIS SURVEY, AS CLASSIFIED IN THE STANDARDS OF PRACTICE (5J-17 FAC), IS "COMMERCIAL/HIGH RISK". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1 FOOT IN 10,000 FEET.

2. HORIZONTAL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.

3. THE PRIMARY HORIZONTAL CONTROL POINT POSITIONS FOR THIS SURVEY WERE ESTABLISHED FROM A MINIMUM OF TWO (2) KNOWN NATIONAL GEODETIC SURVEY (NGS) CONTROL POINTS USING REAL TIME KINEMATIC SESSIONS. THE MAXIMUM POSITIONAL UNCERTAINTY OF THE PHYSICAL PRIMARY CONTROL POINTS IS COMPUTED TO BE 0.038 FEET (9.753 MILLIMETERS) USING ALGEBRAIC SUM MEAN OF THE PROCESSED POSITIONS.

DATA SOURCES:

1. BEARINGS ARE STATE PLANE AND BASED UPON THE EAST RIGHT-OF-WAY LINE OF GOLF VIEW DRIVE BEING ASSUMED AS N28°02'59"E AND IS SHOWN ON THE MAP OF SURVEY.

2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A COMMITMENT FOR TITLE INSURANCE PREPARED BY LAWYERS TITLE INSURANCE CORPORATION, ORDER NUMBER 1042925 - REVISION 13, CUSTOMER REFERENCE NUMBER 40225443FC/28987/NCS, EFFECTIVE DATE: FEBRUARY 14, 2007 AT 8:00 A.M. THE LEGAL DESCRIPTION SHOWN HEREON IS AS IT APPEARS AS PARCEL VI IN SAID COMMITMENT. A NEW TITLE COMMITMENT WAS NOT PROVIDED FOR REVISION 5. THE ZONING AND SETBACKS WERE NOT UPDATED FOR REVISION 5.

3. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A SURVEY TITLED "BOUNDARY SURVEY PELICAN GOLF COURSE" PREPARED BY GIPPEL, MASTELLER AND KRAVET, ENGINEERING, PLANNING, SURVEYING, FILE NUMBER 6960, DATED APRIL 12, 1990, LAST REVISION DATE APRIL 25, 1990.

4. VARONA STREET LYING SOUTH OF OSCEOLA ROAD AS SHOWN ON THE PLAT OF BELLEAIR ESTATES, PLAT BOOK 18, PAGES 52 THROUGH 57, INCLUSIVE, WAS VACATED BY AN UNRECORDED CERTIFICATE OF A RESOLUTION PASSED BY BOARD OF COMMISSIONERS OF THE TOWN OF BELLEAIR, DATED SEPTEMBER 21, 1955. (THIS INFORMATION WAS SUPPLIED BY THE PINELLAS COUNTY PROPERTY APPRAISERS OFFICE.)

LIMITATIONS:

1. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR/CERTIFIED TO WILLBE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.

2. THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS AFFECTING THIS PROPERTY THAT MAY OR MAY NOT BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

3. LAST DATE OF ORIGINAL FIELD WORK WAS COMPLETED ON 3-19-1997 AND IS CONTAINED IN FIELD BOOK 248, PAGES 56 THRU 61, FIELD BOOK 255, PAGES 57 THRU 70 AND FIELD BOOK 300, PAGES 67 THRU 72; FIELD WORK FOR REVISION 4 WAS COMPLETED ON 3-29-2007 AND IS CONTAINED IN FIELD BOOK 1322, PAGES 7 THRU 10. FIELD WORK FOR REVISION 5 WAS COMPLETED ON 11-23-2016 AND IS CONTAINED IN FIELD BOOK 1835, PAGES 5 THRU 18, AND FIELD BOOK 1836, PAGES 5 AND 6.

4. PRINTED DIMENSIONS SHOWN ON THE SURVEY SUPERSEDE SCALED DIMENSIONS. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.

5. CALCULATED (C) GEOMETRY SHOWN HEREON WAS CALCULATED USING FIELD LOCATED POINTS AND CERTAIN PUBLISHED DATA (SEE DATA SOURCES).

6. SHOWN ANYWHERE ON THIS SURVEY, THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF A PROFESSIONAL OPINION, BASED UPON THE SURVEYOR'S BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT THUS CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY.

7. SUBSURFACE FOUNDATIONS AND COMMON WALLS, ALONG WITH THEIR LOCATIONS HAVE NOT BEEN DETERMINED.

8. IRRIGATION EQUIPMENT AND/OR THEIR APPURTENANCES HAVE NOT BEEN LOCATED UNLESS OTHERWISE SHOWN ON MAP OF SURVEY.

9. THE LOCATIONS OF THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WERE PERFORMED BY A FIELD SURVEY AND ONLY LOCATED AS SHOWN ON THE MAP OF SURVEY. ONLY THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WHICH WERE VISIBLE FROM GROUND LEVEL TO THE SURVEYOR ON THE ACTUAL DAY OF THE FIELD SURVEY WERE LOCATED AND MAPPED. NO EXCAVATIONS OR SUBSURFACE WORK EFFORTS OF ANY KIND WERE PERFORMED BY THE SURVEYOR TO VERIFY THE EXISTENCE OF ANY UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.

10. HORIZONTAL DIMENSIONS FROM BOUNDARY LINES TO LOCATED ITEMS WHICH USE SYMBOLS (SEE SYMBOL LEGEND) ARE MEASURED TO THEIR CENTER.

11. NO MAPPING OF INTERIOR FEATURES WAS PERFORMED. ONLY THE VISIBLE IMPROVEMENTS WHICH ARE NEAR OR CROSSOVER THE SUBJECT PROPERTY BOUNDARY LINES WERE MAPPED AND SHOWN ON THE MAP OF SURVEY.

12. NO INFORMATION ON ADJOINING PROPERTY OWNERS WAS SUPPLIED TO THE SURVEYOR.

13. SUBJECT PROPERTY LIES WITHIN FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN, PER FLOOD INSURANCE RATE MAP, MAP NUMBER 12103C0116H, MAP REVISED MAY 17, 2005.

LIMITATIONS:(CONTINUED)

14. THE SUBJECT PROPERTY IS ZONED GOLF COURSE (GC) ACCORDING TO THE TOWN OF BELLEAIR OFFICIAL ZONING MAP, PREPARED BY THE OFFICE OF THE PINELLAS COUNTY PROPERTY APPRAISER, DATE PRINTED OCTOBER 16, 2003. THE CODE OF ORDINANCES FOR THE TOWN OF BELLEAIR, FLORIDA, PASSED AND ADOPTED ON APRIL 19, 1994 LIST THE SETBACKS AS FOLLOWS:

LOT MINIMUMS
AREA = --
WIDTH = NONE
DEPTH = NONE
DENSITY MAXIMUM DWELLING UNITS PER ACRE = NONE

MINIMUM YARD SETBACKS
FRONT = 25 FEET
SIDE = 25 FEET
REAR = 25 FEET
MAXIMUM HEIGHT = 32 FEET
FLOOD ZONE'S = 36
MINIMUM LIVING AREA PER UNIT = N/A
FLOOR AREA RATIO = TOWN COMMISSION APPROVAL

BOUNDARY INCONSISTENCIES:

ANY ANGULAR AND/OR DIMENSIONAL DISCREPANCIES BETWEEN THE LEGAL DESCRIPTION(S) AND THE FIELD LOCATED OCCUPATION BOUNDARY CORNERS, AND BOUNDARY CORNERS WITH MULTIPLE BOUNDARY MONUMENTS ALONG WITH THEIR CORRESPONDING QUADRANT DIRECTIONAL MISSES, ARE SHOWN ON THE MAP OF SURVEY.

APPARENT PHYSICAL USE:

1. THE SUBJECT PROPERTY (PARCEL IV) IS APPARENTLY BEING USED AS A GOLF COURSE.

EASEMENTS/RIGHTS-OF-WAY:

1. SEE DATA SOURCES 2.

2. SEE LIMITATIONS 2.

THE FOLLOWING ARE ITEMS AFFECTING THIS SUBJECT PROPERTY (PARCEL IV) PER SCHEDULE B SECTION II OF THE TITLE COMMITMENT REFERENCED IN DATA SOURCES 2: (THE NUMBERS SHOWN AS (#) CORRESPOND WITH SAID COMMITMENT)

3. (1) Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment. [NOT A SURVEY MATTER]

4. (2) Taxes and assessments for the year 2007 and subsequent years. [NOT A SURVEY MATTER]

5. (3) Rights of parties in possession, other than the record owner. [NOT A SURVEY MATTER]

6. (4). Any lien, or right to a lien, for services, labor, or materials heretofore or hereafter furnished, imposed by law and not shown by the Public Records. [NOT A SURVEY MATTER]

7. (5) A 10 foot drainage and utility easement along the North boundary of the Plat of Pelican Golf Course recorded in Plat Book 53, Page 45 and 46. (As to Parcel IV). [SHOWN ON MAP OF SURVEY]

8. (6) Agreement recorded in Official Records Book 266, Page 126. (As to Parcel IV). [NOT A SURVEY MATTER]

9. (14) Revocable License Agreement recorded in Official Records Book 5836, Page 919. (As to Parcel IV). [SHOWN ON MAP OF SURVEY AS (D5)]

10. (15) Grant of Easement in favor of Town of Belleair, a municipal corporation, as set forth in instrument recorded in Official Records Book 6464, Page 916. (As to Parcel IV) [PERMANENT DRAINAGE EASEMENT (P13) SHOWN AS (D1) AND PERMANENT DRAINAGE EASEMENT (P14) SHOWN AS (D2) ON MAP OF SURVEY. THE TEMPORARY CONSTRUCTION EASEMENTS ARE NOT SHOWN AS THE RECORD DOCUMENT STATES THAT THE TEMPORARY CONSTRUCTION EASEMENTS ARE VALID UNTIL COMPLETION AND ACCEPTANCE OF THE CONSTRUCTION PROJECT OR UNTIL SEPTEMBER 31, 1985, WHICHEVER DATE SHALL FIRST OCCUR.]

11. (10) Agreement by and between Postage Corporation and the Town of Belleair, as evidenced by the Memorandum of Agreement recorded in Official Records Book 6536, Page 1095. (As to Parcel IV) [NOT A SURVEY MATTER]

12. (19) Municipal Drainage Easement in favor of the Town of Belleair, Florida, a municipal corporation, as set forth in instrument recorded in Official Records Book 6464, Page 909. (As to Parcel IV). [GOLF VIEW DRIVE DRAINAGE AREA SHOWN AS (D3) AND POINSETTIA/CYPRESS DRAINAGE AREA SHOWN AS (D4) ON MAP OF SURVEY]

13. (22) Distribution Easement in favor of Florida Power Corporation, a Florida corporation, as set forth in instrument recorded in Official Records Book 7516, Page 1107. (As to Parcel IV). [DESCRIBED AS "that ten foot wide strip of land lying ten feet on each side of the centerline of Crontea's facilities", A NON-PLOTTABLE BLANKET TYPE EASEMENT LYING WITHIN THE ENTIRE SUBJECT PROPERTY]

14. (24) Amended and Restated Easement Agreement by and between MIDD USA, Inc., a Florida corporation and Town of Belleair, a Florida municipal corporation recorded in Official Records Book 9616, Page 1279 (as to Parcel IV). [SHOWN AS (D6) ON MAP OF SURVEY]

15. (26) Corporate Membership Agreement recorded in Official Record Book 12688, Page 2234. (As to Parcel IV). [NOT A SURVEY MATTER]

16. (29) Terms and conditions of all agreements and franchises pertaining to the cost, installation, operation and maintenance of any gaps, water and/or sewer facilities. (As to all parcels). [NOT A SURVEY MATTER]

17. (31) Rights of tenant(s) in possession, if any, under lease(s) not recorded in the Public Records. [NOT A SURVEY MATTER]

18. (39) matters shown on the boundary survey dated March 19, 1907, prepared by Florida Design Consultants, Inc., Project No. 166-01 (As to Parcel IV only). (SEE MAP OF SURVEY)

PROJECT DATUM :

HORIZONTAL:

COORDINATES (IN U.S. SURVEY FEET) ARE BASED ON NATIONAL GEODETIC SURVEY (NGS), STATE PLANE COORDINATES, FLORIDA WEST ZONE, NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT

CONTROL STATIONS UTILIZED:

(1) A FOUND 12" DIAMETER CONCRETE MONUMENT WITH SURVEY DISK STAMPED "BAUDER P", DESIGNATED BY NGS AS "BAUDER P". PID = AD3329 (NORTHING = 1,310,161.29, EASTING = 339,278.06).

(2) A FOUND 12" DIAMETER CONCRETE MONUMENT WITH SURVEY DISK STAMPED "HALL R", DESIGNATED BY NGS AS "HALL R". PID = AD0368 (NORTHING = 1,310,839.47, EASTING = 336,574.59). BOTH PUBLISHED BY THE NATIONAL GEODETIC SURVEY WEB SITE: (http://www.ngs.noaa.gov)

PREPARED FOR:

CARDNO

CERTIFIED TO:

CARDNO
ALLIED/BELLEVIEW, INC.
LAWYERS TITLE INSURANCE CORPORATION
BH & WBC, LLC
URDANG CAPITAL MANAGEMENT, INC.
INTERNODI BANK
LEGG MASON REAL ESTATE INVESTORS, INC. - CRE X, LLC

SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE:

JARED T. PATENAUDE
STATE OF FLORIDA PROFESSIONAL
SURVEYOR AND MAPPER
LICENSE NUMBER LS 6971

DOCUMENT LEGEND

(P1) = Plat Book 53, pg 45
(P2) = Plat Book 18, pg 52
(P3) = Plat Book 53, pg 3
(P4) = Plat Book 2, pg 82
(P5) = Plat Book 40, pg 6
(D1) = OR 6464, PG 915 (P13)
(D2) = OR 6464, PG 916 (P14)
(D3) = OR 6622, PG 891 (GULFVIEW DRAINAGE AREA)
(D4) = OR 6622, PG 881 (POINSETTIA/CYPRESS DRAINAGE AREA)
(D5) = OR 5836, PG 919
(D6) = OR 9616, PG 1279
POB1 = P.O.B. 53, PG 45
POB2 = Exception 1
POB3 = Exception 2
POB4 = Exception 3

SYMBOLS LEGEND

= Aerial Target
= Bench Mark
= Cable TV Point Stripe
= Cable TV Box
= Communications Manhole
= Concrete Light Pole
= Concrete Post
= Concrete Utility Pole
= Drainage Manhole
= Electric Box
= Electric Manhole
= FPC Point Stripe
= FPC Pedestal
= Fire Hydrant
= Flag Pole
= Gas Line Marker
= Gas Filler Cap
= Gas Valve
= Gas Meter Box
= Gas Line Point Stripe
= Grate Inlet
= GTE Manhole
= GTE Pedestal
= GTE Marker
= Guy Wire
= Light Pole
= Mail Box
= Metal Post
= Monitoring Well
= Parking Meter
= Reclaimed Water Point Stripe
= Reclaimed Water Box
= Reclaimed Water Valve
= Sanitary Sewer Manhole
= Sanitary Cleanout
= Sanitary Sewer Point Stripe
= Section Corner
= Siamese Connection
= Sign
= Sprinkler Control Box
= Sprinkler Head
= Storm Water Point Stripe
= Traffic Signal Box
= Traffic Signal Pole
= Water Line Point Stripe
= Water Meter
= Water Valve
= Wood Utility Pole
= Wood Light Pole
= Wood Post
= Point of Elevation
= Calculated Dimension from Structure to Boundary / Right-of-Way Line

LINETYPE LEGEND

= Boundary Line
= Center Line
= Easement Line
= Edge of Water
= Jurisdictional Line
= Right-Of-Way Line
= Section Line
= Top Bank or Top of Berm
= Toe of Slope or Grade Break

ABBREVIATIONS LEGEND

AC = Acres
A/C = Air Conditioner
ADW = Asphalt Driveway
ADS = Advance Drainage Systems
ASPH = Asphalt
B/C = Back of Curb
BCCM = Board of County Commissioners Minutes Book
BFPD = Back Flow Prevention Device
BLDG = Building
BNDY = Boundary
BWF = Barb Wire Fence
(C) = Calculated Data
C/C = Covered Concrete
CCCL = Coastal Construction Control Line
CCR = Certified Corner Record
CDW = Concrete Driveway
CI = Curb Inlet
℄ = Center Line
CLF = Chain Link Fence
CM = Concrete Monument
CMP = Corrugated Metal Pipe
CO = Clean out
CONC = Concrete
COR = Corner
CPB = Concrete Plat Book
C/S = Concrete Slab
C/T = Curb Tie
DB = Deed Book
DCVA = Double Check Valve Assembly
DNR = Department of Natural Resources
DEPT = Department
DIA = Diameter
DIP = Ductile Iron Pipe
DMH = Drainage Manhole
D/W = Driveway
E = East
ECMP = Elliptical Corrugated Metal Pipe
EL = Elevation
EOW = Edge of Water
E/P = Edge of Pavement
ERCP = Elliptical Reinforced Concrete Pipe
ESMT = Easement
(F) = Field Data
FAC = Florida Administrative Code
FCM = Found Concrete Monument
FDOT = Florida Department of Transportation
FH = Fire Hydrant
FIR = Found Iron Rod and Cap
FN = Found Nail
FND = Found
FN&D = Found Nail and Disk
FFE = Finished Floor Elevation
FN&TT = Found Nail and Tin Tab
FOP = Found Open End Iron Pipe
FPB = Florida Power Corporation Box
FPC = Florida Power Corporation
FPP = Found Pinched Iron Pipe
FRRS = Found Railroad Spike
FT = Feet
F/T = Fence Tie
FXC = Found X-cut
G/A = Guy Wire Anchor
GE = Grate Elevation
GI = Grate Inlet
GV = Gas Valve
IE = Invert Elevation
INV = Invert
LB = Corporate Certification Number
LP = Light Pole
LS = Licensed Surveyor
MAS = Masonry
MES = Mitered End Section
MH = Manhole
MHW = Mean High Water
MOL = More or Less
N = North
N/C = No Cap
N/F = Not Found
NAD = North American Datum
NAVD = North American Vertical Datum
NGS = National Geodetic Survey
NGVD = National Geodetic Vertical Datum
NKA = Now Known As
NP = Normal Pool Elevation
(NR) = Non Radial
O/A = Overall
OHW = Overhead Wire
OR = Official Record Book
(PA) = Property Appraisers Map Data
PB = Plat Book
PC = Point of Curvature
PCED = Pasco County Engineering Department
PCP = Permanent Control Point
PG(S) = Pages
PI = Point of Intersection
PID = Permanent Identification Number
℄ = Property Line
PLS = Professional Land Surveyor
POB = Point of Beginning
POC = Point of Commencement
POL = Point on Line
PRM = Permanent Reference Monument
PSM = Professional Surveyor and Mapper
PT = Point of Tangency \ Point
PVC = Polyvinyl Chloride Pipe
(R) = Recorded Data
RCP = Reinforced Concrete Pipe
RLS = Registered Land Surveyor
RNG = Range
R/W = Right of Way
S = South
SCM = Set Concrete Monument, 4"x4", PRM LB 6707
SCM(W) = Set Concrete Monument, 4"x4", FDC LB 6707 WITNESS PT
SEC = Section
SHW = Seasonal High Water Elevation
SIR = Set 5/8"Iron Rod and Cap FDC LB 6707
SIR(T) = Set 5/8"Iron Rod and Cap, FDC LB 6707 TRAV PT
SIR(W) = Set 5/8"Iron Rod and Cap, FDC LB 6707 WITNESS PT
SMH = Sanitary Manhole
SN&D = Set Nail and Disk
SN&D(T) = Set Nail and Disk, FDC LB 6707 TRAV PT
SN&D(W) = Set Nail and Disk, FDC LB 6707 WITNESS PT
SQ = Square
SR = State Road
STY = Story
S/W = Sidewalk
TBM = Temporary Benchmark
TOB = Top of Bank
TRAV = Traverse
(TYP) = Typical
TWP = Township
U/P = Utility Pole
VCP = Vitrified Clay Pipe
W = West
W/ = With
WF = Wood Fence
WF = Wire Fence
WM = Water Meter
WPP = Wood Utility Pole
W/T = Wall Tie
WV = Water Valve
xx° = Degrees
xx' = Minutes (Bearings)
xx" = Seconds (Bearing)
xx' = Feet (Distances)

LAST DATE OF FIELD WORK REVISION 5: 11-23-16
LAST DATE OF FIELD WORK REVISION 4: 3-29-07
THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER

DRAWN: SAS/BDH
CHECKED:
QUALITY CONTROL:

FLORIDA DESIGN CONSULTANTS, INC.
THINK IT. ACHIEVE IT.
3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34655
PHONE: (352) 232-1047 WWW.FLDESIGN.COM L.B. NO. 6707

SUBJECT:
PELICAN GOLF COURSE
(NKA BELLEVIEW BILTMORE GOLF AND COUNTRY CLUB)
PARCEL IV

SHEET DESCRIPTION:
BOUNDARY SURVEY

NO.	DATE	REVISIONS	BY	QUALITY CONTROL
5	12/5/16	UPDATE BOUNDARY SURVEY	CWF	JTP
4	4/5/07	UPDATE BOUNDARY SURVEY	JST	JDK
3	4/5/97	ADD DATA SOURCE 6, ADD TO CERTIFICATION (NO FIELD WORK)	SKA	
2	4/7/97	REVISE DATA SOURCE NOTES 2, 5, LINETYPES (NO FIELD WORK)	SKA	
1	3/28/97	REVISE LIMITATION NOTE 2, EASEMENT NOTE 8 (NO FIELD WORK)	SKA	

SHEET INDEX:
1. SURVEYOR'S REPORT AND LEGENDS
2-4. BOUNDARY DETAIL
5-15. MAP OF SURVEY

ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED.

JOB NUMBER: 2005-0002 FPN: 264
PROJECT DATA BASE: 166-01
FIELD BOOK NUMBER & PAGES: 248/56-61, 255/57-70, 300/67-72, 1835/5-18, 1836/5-6
LAST DATE OF ORIGINAL FIELD WORK: 3-19-1997
SCALE: NONE

SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

JARED T. PATENAUDE
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER PSM 6971
STATE OF FLORIDA

SHEET 1 OF 15

VARIANCE REQUEST #2: Request for Variance a reduction in the number of off-street loading zones required per Section 74-173 of the Town Code.

JUSTIFICATIONS (per Section 66-253(b)(1) of Town Code):

1. Special conditions and circumstances exist which are peculiar to the land, structure or buildings involved.

Strict application of the code would suggest that 52,180 SF (approximate total gross floor area of Main Clubhouse plus Grill Room) would generate the need for six loading zones per 74-173(b)(3). Of that total area, the Restaurant at the Clubhouse (6,352 SF) and the Grill Room at the Golf Shop (2,464 SF) are the main uses that will be requiring loading space. Further, the one proposed loading zone has been purposefully located at the side entry from Poinsettia Road to minimize possible disruption to everyday customers in the main parking lot.

2. The special conditions and circumstances do not result from actions of the applicant.

The proposed uses for the new project will change slightly from the existing uses; namely, a fitness center and additional meeting rooms have been added. Neither of these two uses are associated with consistently cumbersome loading zone requirements. The existing uses include a golf course with pro shop, restaurant and meeting space and the site is currently served adequately by 1 loading zone.

3. Literal interpretation of the provisions of this Code would work unnecessary and undue hardship on the applicant.

Literal interpretation of the provisions of the Code would require six loading zones based on the total square footage of the buildings on site. If six loading zones were to be used, there would be a decrease in the number of on-site parking stalls that could be provided and there would be an inordinate amount of space for this type of project dedicated to loading zones.

4. The variance, if granted, is the minimum variance that will make possible the reasonable use of the land, structure or building.

This request is the minimum variance and will provide adequate loading access for the site. On occasion when there is an event that would require more than one delivery truck at a time, staff will coordinate deliveries to eliminate potential conflicts in the side parking lot.

5. A grant of variance will be in harmony with the general intent and purpose of this Code, and that such variance will not be injurious to the zoning district involved or otherwise detrimental to the public interest.

The granting of this variance will not be injurious to the GC, Golf Course zoning district or otherwise detrimental to the public interest. In fact, by only having 1 loading zone, the number of trucks going in and out of the surrounding residential area will be reduced thus serving the public interest.

6. A grant of variance will not result in any land use not specifically provided for in the schedule of district regulations (section 74-82 of this Code) for the zoning district in which the property is located.

Granting this variance will not result in any land use not specifically provided for with the GC, Golf Course District as stated in Section 74-82 of the Town Code. A loading zone is a necessary facility for this use and is a permitted use in the district.

Please refer to the letter at end of this section authorizing the applicant to submit variance requests.

TOWN OF BELLEAIR
901 Ponce de Leon Blvd.
Belleair, Florida 33756-1096
Phone: (727) 588-3769 ext. 215
Fax: (727) 588-3768

DATE January 10, 2017

To the Town Commission of the Town of Belleair, Florida

1. The undersigned, Dan Doyle, Jr., owner of Lot* ____ Block ____, Subdivision* Refer to Legal Description on Boundary Survey prepared by FDC dated 11.23.16, property Commission of the Town of Belleair for a variance on the above-described property.

2. The property is presently zoned Golf Course.

3. The present land use on the property is Recreation / Open Space.

4. The decision involves Article III Section 74-172(g) of the Belleair Land Development Code.

5. The Commissions power arises under Article V, Section 66.253 of the Belleair Land Development Code.

6. The Relief prayed by the applicant is: Request permission for reduction for mixed or joint use of parking spaces.

7. The Justification for the request is (requests for the variances must demonstrate the practical difficulty or unnecessary hardship which justifies the variance): The proposed uses in the proposed buildings that comprise the clubhouse are not "stand alone" uses. Refer to the expected peak parking hours data included in the Project Narrative and Variance Request #3 for more information.

8. Attached is a non-refundable fee to defray expenses incurred by the Town of Belleair in processing this application (** Note: All costs incurred by the Town of Belleair, above and beyond the variance application fee, will be the responsibility of the applicant regardless of approval or denial of the request**)

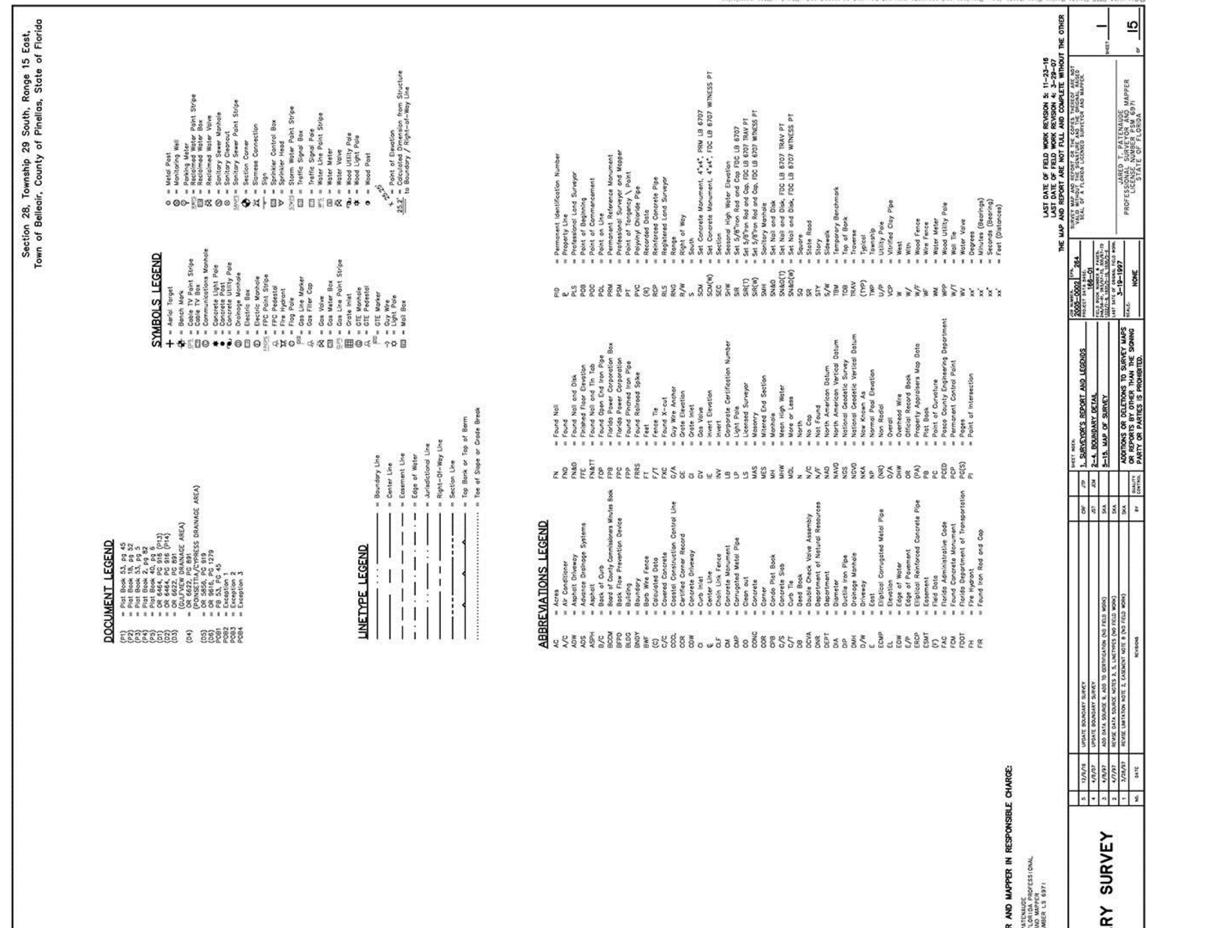
9. I am aware that this request will be voided should I or my representative fail to appear at the public hearings scheduled to consider this request.

10. I am aware that any variance that may be granted will automatically expire twelve months after approval by the Town Commission unless a building permit id produced from the Town with respect to the improvements contemplated by this application for variance within said twelve month period unless the construction of said improvements is promptly commenced pursuant to the building permit and diligently pursued to completion thereafter.

FEE: $300.00

Paid: ____

Dan Doyle, Jr.
Owner
c/o Tom Nash; PO Box 1669; Clearwater, FL 33756
Address
727-441-8966
Telephone Number


SURVEYOR'S REPORT
MAP OF BOUNDARY SURVEY
Section 28, Township 29 South, Range 15 East,
Town of Belleair, County of Pinellas, State of Florida
DOCUMENT LEGEND
LINETYPE LEGEND
ABBREVIATIONS LEGEND
SYMBOLS LEGEND
FLORIDA DESIGN CONSULTANTS, INC.
PELICAN GOLF COURSE
(NKA BELLEVIEW BILTMORE GOLF AND COUNTRY CLUB)
PARCEL IV
BOUNDARY SURVEY
15

VARIANCE REQUEST #3: Request for Reduction for Mixed or Joint Use of Parking Spaces, pursuant to Section 74-172(g) of Town Code.

JUSTIFICATIONS (per Section 66-253(b)(1) of Town Code):

1. Special conditions and circumstances exist which are peculiar to the land, structure or buildings involved.

Most of the proposed uses for this project such as golf course, driving range, grill room, pro shop, restaurant, and fitness center, exist to support the golf course operations. The proposed uses for the buildings are not typical "stand alone" uses; in fact, most of the proposed uses will be shared via golfers on property who may use the golf course, grill room, fitness center, and pro shop during one visit. Application of Section 74-172 of the Town code only provides for "stand alone" uses, but there should be a mechanism to allow for the sharing of parking between several uses on one property. The "Expected Parking" table shows the peak times of operations and the corresponding parking needs to demonstrate the overlapping users.

2. The special conditions and circumstances do not result from actions of the applicant.

The proposed uses for the new project will change slightly from the existing use; namely a fitness center and additional meeting rooms have been added. The existing uses include a golf course with pro shop, restaurant and meeting space. The existing parking lot contains 140 parking spaces and 2 ADA spaces and adequately serves the current uses.

3. Literal interpretation of the provisions of this Code would work unnecessary and undue hardship on the applicant.

Literal interpretation of the provisions of this Code would create an unnecessary and undue hardship on the applicant because the size of the clubhouse parcel and the desire to preserve green space make the required parking impossible to accomplish. Literal interpretation of the provisions of this Code treating each proposed use on the property as "stand alone" uses unnecessarily triggers a requirement of 392 parking spaces. This amount of parking would be a tremendous outlier in the world of operating golf courses and is inconsistent with the parking code requirements of other communities with golf course developments. Other comparable 18 hole golf courses in the same region routinely operate at less than 200 parking spaces as demonstrated in the table that lists several local golf courses.

4. The variance, if granted, is the minimum variance that will make possible the reasonable use of the land, structure or building.

Every possible alternative to maximize parking on the site has been considered. The applicant has also agreed to use the body of the Practice Range as a designated area for overflow parking during extreme special events. So all parking needs for operation, even during special events, will be accommodated on site. The variance requested is the absolute minimum needed in order to complete the development.

5. A grant of variance will be in harmony with the general intent and purpose of this Code, and that such variance will not be injurious to the zoning district involved or otherwise detrimental to the public interest.

The intent of the code is to allow reasonable and appropriate development with the Town and the granting of this variance will not be injurious to the zoning district or otherwise detrimental to the public interest.

6. A grant of variance will not result in any land use not specifically provided for in the schedule of district regulations (section 74-82 of this Code) for the zoning district in which the property is located.

The granting of this variance will not result in any adverse land use.

Please refer to the letter at end of this section authorizing the applicant to submit variance requests.

TOWN OF BELLEAIR
901 Ponce de Leon Blvd.
Belleair, Florida 33756-1096
Phone: (727) 588-3769 ext. 215
Fax: (727) 588-3768

DATE January 10,2017

To the Town Commission of the Town of Belleair, Florida

1. The undersigned, Dan Doyle, Jr., owner of Lot* ____ Block* ____, Subdivision "Refer to Legal Description on the attached Boundary Survey prepared by FDC dated 11.23.16", property Commission of the Town of Belleair for a variance on the above-described property.

2. The property is presently zoned Golf Course.

3. The present land use on the property is Recreation / Open Space.

4. The decision involves Article VI Section 74-383(b) of the Belleair Land Development Code.

5. The Commissions power arises under Article V, Section 66.253 of the Belleair Land Development Code.

6. The Relief prayed by the applicant is: Request for permission to replant trees as described in Project Narrative and as shown on Landscape Plans. Refer to Variance Request #4 for further details.

7. The Justification for the request is (requests for the variances must demonstrate the practical difficulty or unnecessary hardship which justifies the variance): Literal interpretation of the provisions of this Code would require the applicant to plant 5,281" worth of trees (amount of trees to be mitigated as designated by the Town). This could correspond to more than 1,000 trees to be replanted which would not be feasible.

8. Attached is a non-refundable fee to defray expenses incurred by the Town of Belleair in processing this application (** Note: All costs incurred by the Town of Belleair, above and beyond the variance application fee, will be the responsibility of the applicant regardless of approval or denial of the request**)

9. I am aware that this request will be voided should I or my representative fail to appear at the public hearings scheduled to consider this request.

10. I am aware that any variance that may be granted will automatically expire twelve months after approval by the Town Commission unless a building permit id produced from the Town with respect to the improvements contemplated by this application for variance within said twelve month period unless the construction of said improvements is promptly commenced pursuant to the building permit and diligently pursued to completion thereafter.

FEE: $300.00

Paid: _____

Dan Doyle, Jr.
Owner
c/o Tom Nash; PO Box 1669; Clearwater, FL 33756
Address
727-441-8966
Telephone Number

Section 28, Township 29 South, Range 15 East,
Town of Belleair, County of Pinellas, State of Florida

SURVEYOR'S REPORT

MAP OF BOUNDARY SURVEY:

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER. (SEE SHEET INDEX IN TITLE BLOCK)

LEGAL DESCRIPTION:
(SEE DATA SOURCES 2)

PARCEL IV - PELICAN GOLF COURSE PROPERTY

ALL OF PELICAN GOLF COURSE, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, EXCEPT THE PORTIONS THEREOF DESCRIBED AS FOLLOWS:

EXCEPTION 1: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 550.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 80.0 FEET; THENCE SOUTH 04 DEG. 44'21" WEST, 128.16 FEET; THENCE NORTH 64 DEG. 42'17" WEST, 125.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 120.0 FEET TO THE POINT OF BEGINNING.

EXCEPTION 2: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 410.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 125.0 FEET; THENCE SOUTH 45 DEG. 51'05" WEST, 128.16 FEET; THENCE NORTH 64 DEG. 42'17" WEST, 80.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE 120.0 FEET TO THE POINT OF BEGINNING.

EXCEPTION 3: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 310.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 125.0 FEET; THENCE SOUTH 25 DEG. 17'45" WEST, 100.0 FEET; THENCE NORTH 64 DEG. 42'17" WEST 125.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 100.0 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH THOSE CERTAIN RIGHTS, DUTIES AND OBLIGATIONS SET FORTH IN MEMORANDUM OF AGREEMENT BETWEEN POSITIVE COMPANY AND TOWN OF BELLEAIR RECORDED IN OR BOOK 6536, PAGE 1095, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA.

ACCURACY:

1. THE ACCURACY STANDARD USED FOR THIS SURVEY, AS CLASSIFIED IN THE STANDARDS OF PRACTICE (5J-17 FAC), IS "COMMERCIAL/HIGH RISK". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1 FOOT IN 10,000 FEET.

2. HORIZONTAL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.

3. THE PRIMARY HORIZONTAL CONTROL POINT POSITIONS FOR THIS SURVEY WERE ESTABLISHED FROM A MINIMUM OF TWO (2) KNOWN NATIONAL GEODETIC SURVEY (NGS) CONTROL POINTS USING REAL TIME KINEMATIC SESSIONS. THE MAXIMUM POSITIONAL UNCERTAINTY OF THE PHYSICAL PRIMARY CONTROL POINTS IS COMPUTED TO BE 0.038 FEET (9.753 MILLIMETERS) USING ALGEBRAIC SUM MEAN OF THE PROCESSED POSITIONS.

DATA SOURCES:

1. BEARINGS ARE STATE PLANE AND BASED UPON THE EAST RIGHT-OF-WAY LINE OF GOLF VIEW DRIVE BEING ASSUMED AS N28°02'59"E AND IS SHOWN ON THE MAP OF SURVEY.

2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A COMMITMENT FOR TITLE INSURANCE PREPARED BY LAWYERS TITLE INSURANCE CORPORATION, ORDER NUMBER 1042925 - REVISION 13, CUSTOMER REFERENCE NUMBER 40225443FC/28987/NCS, EFFECTIVE DATE: FEBRUARY 14, 2007 AT 8:00 A.M. THE LEGAL DESCRIPTION SHOWN HEREON IS AS IT APPEARS AS PARCEL VI IN SAID COMMITMENT. A NEW TITLE COMMITMENT WAS NOT PROVIDED FOR REVISION 5. THE ZONING AND SETBACKS WERE NOT UPDATED FOR REVISION 5.

3. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A SURVEY TITLED "BOUNDARY SURVEY PELICAN GOLF COURSE" PREPARED BY GIPPEL, MASTELLER AND KRAVET, ENGINEERING, PLANNING, SURVEYING, FILE NUMBER 6960, DATED APRIL 12, 1990, LAST REVISION DATE APRIL 25, 1990.

4. VARONA STREET LYING SOUTH OF OSCEOLA ROAD AS SHOWN ON THE PLAT OF BELLEAIR ESTATES, PLAT BOOK 18, PAGES 52 THROUGH 57, INCLUSIVE, WAS VACATED BY AN UNRECORDED CERTIFICATE OF A RESOLUTION PASSED BY BOARD OF COMMISSIONERS OF THE TOWN OF BELLEAIR, DATED SEPTEMBER 21, 1955. (THIS INFORMATION WAS PROVIDED BY THE PINELLAS COUNTY PROPERTY APPRAISERS OFFICE.)

LIMITATIONS:

1. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR/CERTIFIED TO WILLBE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.

2. THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS AFFECTING THIS PROPERTY THAT MAY OR MAY NOT BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

3. LAST DATE OF ORIGINAL FIELD WORK WAS COMPLETED ON 3-19-1997 AND IS CONTAINED IN FIELD BOOK 248, PAGES 56 THRU 61, FIELD BOOK 255, PAGES 57 THRU 70 AND FIELD BOOK 300, PAGES 67 THRU 72; FIELD WORK FOR REVISION 4 WAS COMPLETED ON 3-29-2007 AND IS CONTAINED IN FIELD BOOK 1322, PAGES 7 THRU 10. FIELD WORK FOR REVISION 5 WAS COMPLETED ON 11-23-2016 AND IS CONTAINED IN FIELD BOOK 1835, PAGES 5 THRU 18, AND FIELD BOOK 1836, PAGES 5 AND 6.

4. PRINTED DIMENSIONS SHOWN ON THE SURVEY SUPERSEDE SCALED DIMENSIONS. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.

5. CALCULATED (C) GEOMETRY SHOWN HEREON WAS CALCULATED USING FIELD LOCATED POINTS AND CERTAIN PUBLISHED DATA (SEE DATA SOURCES).

6. SHOWN ANYWHERE ON THIS SURVEY, THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF A PROFESSIONAL OPINION. BASED UPON THE SURVEYOR'S BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT THUS CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY.

7. SUBSURFACE FOUNDATIONS AND COMMON WALLS, ALONG WITH THEIR LOCATIONS HAVE NOT BEEN DETERMINED.

8. IRRIGATION EQUIPMENT AND/OR THEIR APPURTENANCES HAVE NOT BEEN LOCATED UNLESS OTHERWISE SHOWN ON MAP OF SURVEY.

9. THE LOCATIONS OF THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WERE PERFORMED BY A FIELD SURVEY AND ONLY LOCATED AS SHOWN ON THE MAP OF SURVEY. ONLY THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WHICH WERE VISIBLE FROM GROUND LEVEL TO THE SURVEYOR ON THE ACTUAL DAY OF THE FIELD SURVEY WERE LOCATED AND MAPPED. NO EXCAVATIONS OR SUBSURFACE WORK EFFORTS OF ANY KIND WERE PERFORMED BY THE SURVEYOR TO VERIFY THE EXISTENCE OF ANY UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.

10. HORIZONTAL DIMENSIONS FROM BOUNDARY LINES TO LOCATED ITEMS WHICH USE SYMBOLS (SEE SYMBOL LEGEND) ARE MEASURED TO THEIR CENTER.

11. NO MAPPING OF INTERIOR FEATURES WAS PERFORMED. ONLY THE VISIBLE IMPROVEMENTS WHICH ARE NEAR OR CROSSOVER THE SUBJECT PROPERTY BOUNDARY LINES WERE MAPPED AND SHOWN ON THE MAP OF SURVEY.

12. NO INFORMATION ON ADJOINING PROPERTY OWNERS WAS SUPPLIED TO THE SURVEYOR.

13. SUBJECT PROPERTY LIES WITHIN FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN, PER FLOOD INSURANCE RATE MAP, MAP NUMBER 12103C0116H, MAP REVISED MAY 17, 2005.

LIMITATIONS:(CONTINUED)

14. THE SUBJECT PROPERTY IS ZONED GOLF COURSE (GC) ACCORDING TO THE TOWN OF BELLEAIR OFFICIAL ZONING MAP, PREPARED BY THE OFFICE OF THE PINELLAS COUNTY PROPERTY APPRAISER, DATE PRINTED OCTOBER 18, 2005. THE CODE OF ORDINANCES FOR THE TOWN OF BELLEAIR, FLORIDA, PASSED AND ADOPTED ON APRIL 19, 1994 LIST THE SETBACKS AS FOLLOWS:

LOT MINIMUMS
AREA = --
WIDTH = NONE
DEPTH = NONE
DENSITY MAXIMUM DWELLING UNITS PER ACRE = NONE

MINIMUM YARD SETBACKS
FRONT = 25 FEET
SIDE = 25 FEET
REAR = 25 FEET
MAXIMUM HEIGHT = 32 FEET
FLOOD ZONE'S = 36
MINIMUM LIVING AREA PER UNIT = N/A
FLOOR AREA RATIO = TOWN COMMISSION APPROVAL

BOUNDARY INCONSISTENCIES:

ANY ANGULAR AND/OR DIMENSIONAL DISCREPANCIES BETWEEN THE LEGAL DESCRIPTION(S) AND THE FIELD LOCATED OCCUPATION BOUNDARY CORNERS AND BOUNDARY CORNERS WITH MULTIPLE BOUNDARY MONUMENTS ALONG WITH THEIR CORRESPONDING QUADRANT DIRECTIONAL MISSES, ARE SHOWN ON THE MAP OF SURVEY.

APPARENT PHYSICAL USE:

1. THE SUBJECT PROPERTY (PARCEL IV) IS APPARENTLY BEING USED AS A GOLF COURSE.

EASEMENTS/RIGHTS-OF-WAY:

1. SEE DATA SOURCES 2.

2. SEE LIMITATIONS 2.

THE FOLLOWING ARE ITEMS AFFECTING THIS SUBJECT PROPERTY (PARCEL IV) PER SCHEDULE B SECTION II OF THE TITLE COMMITMENT REFERENCED IN DATA SOURCES 2: (THE NUMBERS SHOWN AS (#) CORRESPOND WITH SAID COMMITMENT)

3. (1) Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment. (NOT A SURVEY MATTER)

4. (2) Taxes and assessments for the year 2007 and subsequent years. (NOT A SURVEY MATTER)

5. (3) Rights of parties in possession, other than the record owner. (NOT A SURVEY MATTER)

6. (4) Any lien, or right to a lien, for services, labor, or materials heretofore or hereafter furnished, imposed by law and not shown by the Public Records. (NOT A SURVEY MATTER)

7. (5) A 10 foot drainage and utility easement along the North boundary of the Plat of Pelican Golf Course recorded in Plat Book 53, Page 45 and 46. (As to Parcel IV). (SHOWN ON MAP OF SURVEY)

8. (6) Agreement recorded in Official Records Book 266, Page 126. (As to Parcel IV). (NOT A SURVEY MATTER)

9. (14) Revocable License Agreement recorded in Official Records Book 5836, Page 919. (As to Parcel IV). (SHOWN ON MAP OF SURVEY AS (D5))

10. (15) Grant of Easement in favor of Town of Belleair, a municipal corporation, as set forth in instrument recorded in Official Records Book 6464, Page 916. (As to Parcel IV) (PERMANENT DRAINAGE EASEMENT (P13) SHOWN AS (D1) AND PERMANENT DRAINAGE EASEMENT (P14) SHOWN AS (D2) ON MAP OF SURVEY. THE TEMPORARY CONSTRUCTION EASEMENTS ARE NOT SHOWN AS THE RECORD DOCUMENT STATES THAT THE TEMPORARY CONSTRUCTION EASEMENTS ARE VALID UNTIL COMPLETION AND ACCEPTANCE OF THE CONSTRUCTION PROJECT OR UNTIL SEPTEMBER 31, 1985, WHICHEVER DATE SHALL FIRST OCCUR.)

11. (10) Agreement by and between Pasteje Corporation and the Town of Belleair, as evidenced by the Memorandum of Agreement recorded in Official Records Book 6536, Page 1095. (As to Parcel IV). (NOT A SURVEY MATTER)

12. (19) Municipal Drainage Easement in favor of the Town of Belleair, Florida, a municipal corporation, as set forth in instrument recorded in Official Records Book 6464, Page 909. (As to Parcel IV). (GOLF VIEW DRIVE DRAINAGE AREA SHOWN AS (D3) AND POINSETTIA/CYPRESS DRAINAGE AREA SHOWN AS (D4) ON MAP OF SURVEY)

13. (22) Distribution Easement in favor of Florida Power Corporation, a Florida corporation, as set forth in instrument recorded in Official Records Book 7516, Page 1107. (As to Parcel IV). (DESCRIBED AS "that ten foot wide strip of land lying ten feet on each side of the centerline of Crantea's facilities", A NON-PLOTTABLE BLANKET TYPE EASEMENT LYING WITHIN THE ENTIRE SUBJECT PROPERTY)

14. (24) Amended and Restated Easement Agreement by and between MIDD USA, Inc., a Florida corporation and Town of Belleair, a Florida municipal corporation recorded in Official Records Book 9616, Page 1279 (as to Parcel IV). (SHOWN AS (D6) ON MAP OF SURVEY)

15. (26) Corporate Membership Agreement recorded in Official Record Book 12688, Page 2234. (As to Parcel IV). (NOT A SURVEY MATTER)

16. (29) Terms and conditions of all agreements and franchises pertaining to the cost, installation, operation and maintenance of any gaps, water and/or sewer facilities. (As to all parcels). (NOT A SURVEY MATTER)

17. (31) Rights of tenant(s) in possession, if any, under lease(s) not recorded in the Public Records. (NOT A SURVEY MATTER)

18. (39) matters shown on the boundary survey dated March 19, 1907, prepared by Florida Design Consultants, Inc., Project No. 166-01 (As to Parcel IV only). (SEE MAP OF SURVEY)

PROJECT DATUM :

HORIZONTAL:

COORDINATES (IN U.S. SURVEY FEET) ARE BASED ON NATIONAL GEODETIC SURVEY (NGS), STATE PLANE COORDINATES, FLORIDA WEST ZONE, NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT

CONTROL STATIONS UTILIZED:

(1) A FOUND 12" DIAMETER CONCRETE MONUMENT WITH SURVEY DISK STAMPED "BAUDER P", DESIGNATED BY NGS AS "BAUDER P". PID = AG0329 (NORTHING = 1,310,161.29, EASTING = 339,278.06).

(2) A FOUND 12" DIAMETER CONCRETE MONUMENT WITH SURVEY DISK STAMPED "HALL R", DESIGNATED BY NGS AS "HALL R". PID = AG0368 (NORTHING = 1,310,839.47, EASTING = 336,574.59). BOTH PUBLISHED BY THE NATIONAL GEODETIC SURVEY WEB SITE: (http://www.ngs.noaa.gov)

PREPARED FOR:

CARDNO

CERTIFIED TO:

CARDNO
ALLIED/BELLEVIEW, INC.
LAWYERS TITLE INSURANCE CORPORATION
BH & WAC, LLC
URBANA CAPITAL MANAGEMENT, INC.
INTERUDI BANK
LEGG MASON REAL ESTATE INVESTORS, INC. - CRE X, LLC

SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE:

JARED T. PATENAUDE
STATE OF FLORIDA PROFESSIONAL
SURVEYOR AND MAPPER
LICENSE NUMBER LS 6971

DOCUMENT LEGEND

(P1) = Plat Book 53, pg 45
(P2) = Plat Book 18, pg 52
(P3) = Plat Book 53, pg 3
(P4) = Plat Book 2, pg 82
(P5) = Plat Book 40, pg 6
(D1) = OR 6464, PG 915 (P13)
(D2) = OR 6464, PG 916 (P14)
(D3) = OR 6622, PG 891 (GULFVIEW DRAINAGE AREA)
(D4) = OR 6622, PG 881 (POINSETTIA/CYPRESS DRAINAGE AREA)
(D5) = OR 5836, PG 919
(D6) = OR 9616, PG 1279
POB1 = PB 53, PG 45
POB2 = Exception 1
POB3 = Exception 2
POB4 = Exception 3

SYMBOLS LEGEND

= Aerial Target
= Bench Mark
= Cable TV Point Stripe
= Cable TV Box
= Communications Manhole
= Concrete Light Pole
= Concrete Post
= Concrete Utility Pole
= Drainage Manhole
= Electric Box
= Electric Manhole
= FPC Point Stripe
= FPC Pedestal
= Fire Hydrant
= Flag Pole
= Gas Line Marker
= Gas Filler Cap
= Gas Valve
= Gas Meter Box
= Gas Line Point Stripe
= Grate Inlet
= GTE Manhole
= GTE Pedestal
= GTE Marker
= Guy Wire
= Light Pole
= Mail Box
= Metal Post
= Monitoring Well
= Parking Meter
= Reclaimed Water Point Stripe
= Reclaimed Water Box
= Reclaimed Water Valve
= Sanitary Sewer Manhole
= Sanitary Cleanout
= Sanitary Sewer Point Stripe
= Section Corner
= Siamese Connection
= Sign
= Sprinkler Control Box
= Sprinkler Head
= Storm Water Point Stripe
= Traffic Signal Box
= Traffic Signal Pole
= Water Line Point Stripe
= Water Meter
= Water Valve
= Wood Utility Pole
= Wood Light Pole
= Wood Post
= Point of Elevation
= Calculated Dimension from Structure to Boundary / Right-of-Way Line

LINETYPE LEGEND

= Boundary Line
= Center Line
= Easement Line
= Edge of Water
= Jurisdictional Line
= Right-Of-Way Line
= Section Line
= Top Bank or Top of Berm
= Toe of Slope or Grade Break

ABBREVIATIONS LEGEND

AC = Acres
A/C = Air Conditioner
ADW = Asphalt Driveway
ADS = Advance Drainage Systems
ASPH = Asphalt
B/C = Back of Curb
BCCM = Board of County Commissioners Minutes Book
BFPD = Back Flow Prevention Device
BLDG = Building
BNDY = Boundary
BWF = Barb Wire Fence
(C) = Calculated Data
C/C = Covered Concrete
CCCL = Coastal Construction Control Line
CCR = Certified Corner Record
CDW = Concrete Driveway
CI = Curb Inlet
℄ = Center Line
CLF = Chain Link Fence
CM = Concrete Monument
CMP = Corrugated Metal Pipe
CO = Clean out
CONC = Concrete
COR = Corner
CPB = Concrete Plat Book
C/S = Concrete Slab
C/T = Curb Tie
DB = Deed Book
DCVA = Double Check Valve Assembly
DNR = Department of Natural Resources
DEPT = Department
DIA = Diameter
DIP = Ductile Iron Pipe
DMH = Drainage Manhole
D/W = Driveway
E = East
ECMP = Elliptical Corrugated Metal Pipe
EL = Elevation
EOW = Edge of Water
E/P = Edge of Pavement
ERCP = Elliptical Reinforced Concrete Pipe
ESMT = Easement
(F) = Field Data
FAC = Florida Administrative Code
FCM = Found Concrete Monument
FDOT = Florida Department of Transportation
FH = Fire Hydrant
FIR = Found Iron Rod and Cap
FN = Found Nail
FND = Found
FN&D = Found Nail and Disk
FFE = Finished Floor Elevation
FN&TT = Found Nail and Tin Tab
FOP = Found Open End Iron Pipe
FPB = Florida Power Corporation Box
FPC = Florida Power Corporation
FPP = Found Pinched Iron Pipe
FRRS = Found Railroad Spike
FT = Feet
F/T = Fence Tie
FXC = Found X-cut
G/A = Guy Wire Anchor
GE = Grate Elevation
GI = Grate Inlet
GV = Gas Valve
IE = Invert Elevation
INV = Invert
LB = Corporate Certification Number
LP = Light Pole
LS = Licensed Surveyor
MAS = Masonry
MES = Mitered End Section
MH = Manhole
MHW = Mean High Water
MOL = More or Less
N = North
N/C = No Cap
N/F = Not Found
NAD = North American Datum
NAVD = North American Vertical Datum
NGS = National Geodetic Survey
NGVD = National Geodetic Vertical Datum
NKA = Now Known As
NP = Normal Pool Elevation
(NR) = Non Radial
O/A = Overall
OHW = Overhead Wire
OR = Official Record Book
(PA) = Property Appraisers Map Data
PB = Plat Book
PC = Point of Curvature
PCED = Pasco County Engineering Department
PCP = Permanent Control Point
PG(S) = Pages
PI = Point of Intersection
PID = Permanent Identification Number
℄ = Property Line
PLS = Professional Land Surveyor
POB = Point of Beginning
POC = Point of Commencement
POL = Point on Line
PRM = Permanent Reference Monument
PSM = Professional Surveyor and Mapper
PT = Point of Tangency \ Point
PVC = Polyvinyl Chloride Pipe
(R) = Recorded Data
RCP = Reinforced Concrete Pipe
RLS = Registered Land Surveyor
RNG = Range
R/W = Right of Way
S = South
SCM = Set Concrete Monument, 4"x4", PRM LB 6707
SCM(W) = Set Concrete Monument, 4"x4", FDC LB 6707 WITNESS PT
SEC = Section
SHW = Seasonal High Water Elevation
SIR = Set 5/8"Iron Rod and Cap FDC LB 6707
SIR(T) = Set 5/8"Iron Rod and Cap, FDC LB 6707 TRAV PT
SIR(W) = Set 5/8"Iron Rod and Cap, FDC LB 6707 WITNESS PT
SMH = Sanitary Manhole
SN&D = Set Nail and Disk
SN&D(T) = Set Nail and Disk, FDC LB 6707 TRAV PT
SN&D(W) = Set Nail and Disk, FDC LB 6707 WITNESS PT
SQ = Square
SR = State Road
STY = Story
S/W = Sidewalk
TBM = Temporary Benchmark
TOB = Top of Bank
TRAV = Traverse
(TYP) = Typical
TWP = Township
U/P = Utility Pole
VCP = Vitrified Clay Pipe
W = West
W/ = With
WDF = Wood Fence
WF = Wire Fence
WM = Water Meter
WPP = Wood Utility Pole
W/T = Wall Tie
WV = Water Valve
xx° = Degrees
xx' = Minutes (Bearings)
xx" = Seconds (Bearing)
xx' = Feet (Distances)

LAST DATE OF FIELD WORK REVISION 5: 11-23-16
LAST DATE OF FIELD WORK REVISION 4: 3-29-07
THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER

DRAWN: SAA/BDH
CHECKED:
QUALITY CONTROL:

FLORIDA DESIGN CONSULTANTS, INC.
THINK IT. ACHIEVE IT.
3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34655
PHONE: (352) 232-1047 WWW.FLDESIGN.COM L.B. NO. 6707

SUBJECT:
PELICAN GOLF COURSE
(NKA BELLEVIEW BILTMORE GOLF AND COUNTRY CLUB)
PARCEL IV

SHEET DESCRIPTION:
BOUNDARY SURVEY

NO.	DATE	REVISIONS	BY	QUALITY CONTROL
5	12/5/16	UPDATE BOUNDARY SURVEY	CWF	JTP
4	4/5/07	UPDATE BOUNDARY SURVEY	JST	JDK
3	4/5/97	ADD DATA SOURCE 6, ADD TO CERTIFICATION (NO FIELD WORK)	SKA	
2	4/7/97	REVISE DATA SOURCE NOTES 2, 5, LINETYPES (NO FIELD WORK)	SKA	
1	3/28/97	REVISE LIMITATION NOTE 2, EASEMENT NOTE 8 (NO FIELD WORK)	SKA	

SHEET INDEX:
1. SURVEYOR'S REPORT AND LEGENDS
2-4. BOUNDARY DETAIL
5-15. MAP OF SURVEY

ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED.

JOB NUMBER: 2005-0002 FPN: 264
PROJECT DATA BASE: 166-01
FIELD BOOK NUMBER & PAGES: 248/56-61, 255/57-70, 300/67-72, 1322/7-10, 1835/5-18, 1836/5-6
LAST DATE OF ORIGINAL FIELD WORK: 3-19-1997
SCALE: NONE

SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

JARED T. PATENAUDE
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER PSM 6971
STATE OF FLORIDA

SHEET 1 OF 15

VARIANCE REQUEST #4: Request for Variance to Tree Replacement pursuant to Section 74-383(b)(1), Section 74-383(b)(2), and Section 74-383(b)(3)

JUSTIFICATIONS (per Section 66-253(b)(1) of Town Code):

1. Special conditions and circumstances exist which are peculiar to the land, structure or buildings involved.

The Town code governing tree replacement is difficult to apply literally to a project of this scale: a 135 acre golf course. The original Donald Ross design made use of a relatively wide-open site where there was plenty of width or play space for golfers. Decades of minimal tree removal (documented by aerial photos through the years) have caused the present condition of the golf course to become overgrown throughout the interior of the property. Also, there are significant issues with failing infrastructure on the site such as drainage and lake storage. Fixing these issues require clearing of trees in some areas and regrading. Finally, the intent of the Landscape Plans demonstrates that, even with the proposed tree clearing, the applicant has committed significant resources to creating an end result of large specimen trees accented by pockets of colorful shrub-type plantings on the "inside" of the property and a buffer of mature trees along the perimeter of the property.

2. The special conditions and circumstances do not result from actions of the applicant.

The applicant is taking over a golf course that has several elements of deferred maintenance including the overgrown condition of the trees and drainage challenges. The applicant is committed to the enhancement of the beauty of the golf course in general as depicted by the replanting shown on the Landscape Plans.

3. Literal interpretation of the provisions of this Code would work unnecessary and undue hardship on the applicant.

Literal interpretation of the provisions of this Code would require the applicant to plant 5,281" worth of trees (amount of trees to be mitigated as designated by the Town). This could correspond to more than 1,000 trees to be replanted which would not be financially feasible.

4. The variance, if granted, is the minimum variance that will make possible the reasonable use of the land, structure or building.

The proposed removal of trees is necessary to improve the overall presentation of the golf course (reduce the "overgrown" feel and fix drainage / infrastructure issues). The applicant has committed substantial resources to the execution of a thorough Landscape Plan that will further enhance the beauty of the golf course as a greenspace.

5. A grant of variance will be in harmony with the general intent and purpose of this Code, and that such variance will not be injurious to the zoning district involved or otherwise detrimental to the public interest.

The intent of the code is to allow reasonable and appropriate development with the Town and the granting of this variance will not be injurious to the zoning district or otherwise detrimental to the public interest.

6. A grant of variance will not result in any land use not specifically provided for in the schedule of district regulations (section 74-82 of this Code) for the zoning district in which the property is located.

The granting of this variance will not result in any adverse land use.

Please refer to the letter at end of this section authorizing the applicant to submit variance requests.

TOWN OF BELLEAIR
901 Ponce de Leon Blvd.
Belleair, Florida 33756-1096
Phone: (727) 588-3769 ext. 215
Fax: (727) 588-3768

DATE January 10, 2017

To the Town Commission of the Town of Belleair, Florida

1. The undersigned, Dan Doyle, Jr., owner of Lot* ____ Block ____, Subdivision* *Refer to Legal Description on Boundary Survey prepared by FDC dated 11.23.16, property Commission of the Town of Belleair for a variance on the above-described property.

2. The property is presently zoned Golf Course.

3. The present land use on the property is Recreation / Open Space.

4. The decision involves Article III Section 74-232(b) of the Belleair Land Development Code.

5. The Commissions power arises under Article V, Section 66.253 of the Belleair Land Development Code.

6. The Relief prayed by the applicant is: Request to utilize existing vegetation as the required buffer along the perimeter of the golf course. In areas along the perimeter that do not have existing vegetation, the required buffer will be achieved as shown on the Landscape Plans.

7. The Justification for the request is (requests for the variances must demonstrate the practical difficulty or unnecessary hardship which justifies the variance): The intent of the Type-A buffer is already achieved utilizing the existing vegetation. In addition, the ground disturbance activity required to plant new trees in the areas of existing trees may cause harm to the health of the existing trees.

8. Attached is a non-refundable fee to defray expenses incurred by the Town of Belleair in processing this application (** Note: All costs incurred by the Town of Belleair, above and beyond the variance application fee, will be the responsibility of the applicant regardless of approval or denial of the request**)

9. I am aware that this request will be voided should I or my representative fail to appear at the public hearings scheduled to consider this request.

10. I am aware that any variance that may be granted will automatically expire twelve months after approval by the Town Commission unless a building permit id produced from the Town with respect to the improvements contemplated by this application for variance within said twelve month period unless the construction of said improvements is promptly commenced pursuant to the building permit and diligently pursued to completion thereafter.

FEE: $300.00

Paid: ____

Dan Doyle, Jr.
Owner
c/o Tom Nash; PO Box 1669; Clearwater, FL 33756
Address
727-441-8966
Telephone Number

Section 28, Township 29 South, Range 15 East,
Town of Belleair, County of Pinellas, State of Florida

SURVEYOR'S REPORT

MAP OF BOUNDARY SURVEY:

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER. (SEE SHEET INDEX IN TITLE BLOCK)

LEGAL DESCRIPTION:
(SEE DATA SOURCES 2)

PARCEL IV - PELICAN GOLF COURSE PROPERTY

ALL OF PELICAN GOLF COURSE, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, EXCEPT THE PORTIONS THEREOF DESCRIBED AS FOLLOWS:

EXCEPTION 1: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 550.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 80.0 FEET; THENCE SOUTH 04 DEG. 44'21" WEST, 128.16 FEET; THENCE NORTH 64 DEG. 42'17" WEST, 125.0 FEET; THENCE NORTH 25 DEG. 17' 45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 120.0 FEET TO THE POINT OF BEGINNING.

EXCEPTION 2: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 410.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 125.0 FEET; THENCE SOUTH 45 DEG. 51'05" WEST, 128.16 FEET; THENCE NORTH 64 DEG. 42'17" WEST, 80.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE 120.0 FEET TO THE POINT OF BEGINNING.

EXCEPTION 3: THAT PART OF THE PELICAN GOLF COURSE, AS RECORDED IN PLAT BOOK 53, PAGES 45 AND 46, OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHEAST CORNER OF ALTHEA ROAD AND GOLF VIEW DRIVE, AS SHOWN ON SAID PLAT OF PELICAN GOLF COURSE, RUN THENCE SOUTH 25 DEG. 17'45" WEST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 310.0 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 64 DEG. 42'17" EAST, 125.0 FEET; THENCE SOUTH 25 DEG. 17'45" WEST, 100.0 FEET; THENCE NORTH 64 DEG. 42'17" WEST 125.0 FEET; THENCE NORTH 25 DEG. 17'45" EAST, ALONG THE EASTERLY RIGHT OF WAY LINE OF GOLF VIEW DRIVE, 100.0 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH THOSE CERTAIN RIGHTS, DUTIES AND OBLIGATIONS SET FORTH IN MEMORANDUM OF AGREEMENT BETWEEN POSITIVE COMPANY AND TOWN OF BELLEAIR RECORDED IN OR BOOK 6536, PAGE 1095, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA.

ACCURACY:

1. THE ACCURACY STANDARD USED FOR THIS SURVEY, AS CLASSIFIED IN THE STANDARDS OF PRACTICE (5J-17 FAC), IS "COMMERCIAL/HIGH RISK". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1 FOOT IN 10,000 FEET.

2. HORIZONTAL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.

3. THE PRIMARY HORIZONTAL CONTROL POINT POSITIONS FOR THIS SURVEY WERE ESTABLISHED FROM A MINIMUM OF TWO (2) KNOWN NATIONAL GEODETIC SURVEY (NGS) CONTROL POINTS USING REAL TIME KINEMATIC SESSIONS. THE MAXIMUM POSITIONAL UNCERTAINTY OF THE PHYSICAL PRIMARY CONTROL POINTS IS COMPUTED TO BE 0.038 FEET (9.753 MILLIMETERS) USING ALGEBRAIC SUM MEAN OF THE PROCESSED POSITIONS.

DATA SOURCES:

1. BEARINGS ARE STATE PLANE AND BASED UPON THE EAST RIGHT-OF-WAY LINE OF GOLF VIEW DRIVE BEING ASSUMED AS N28°02'59"E AND IS SHOWN ON THE MAP OF SURVEY.

2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A COMMITMENT FOR TITLE INSURANCE PREPARED BY LAWYERS TITLE INSURANCE CORPORATION, ORDER NUMBER 1042925 - REVISION 13, CUSTOMER REFERENCE NUMBER 4022544370/28987/NCS, EFFECTIVE DATE: FEBRUARY 14, 2007 AT 8:00 A.M. THE LEGAL DESCRIPTION SHOWN HEREON IS AS IT APPEARS AS PARCEL VI IN SAID COMMITMENT. A NEW TITLE COMMITMENT WAS NOT PROVIDED FOR REVISION 5. THE ZONING AND SETBACKS WERE NOT UPDATED FOR REVISION 5.

3. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A SURVEY TITLED "BOUNDARY SURVEY PELICAN GOLF COURSE" PREPARED BY GIPPEL, MASTELLER AND KRAVET, ENGINEERING, PLANNING, SURVEYING, FILE NUMBER 6960, DATED APRIL 12, 1990, LAST REVISION DATE APRIL 25, 1990.

4. VARONA STREET LYING SOUTH OF OSCEOLA ROAD AS SHOWN ON THE PLAT OF BELLEAIR ESTATES, PLAT BOOK 18, PAGES 52 THROUGH 57, INCLUSIVE, WAS VACATED BY AN UNRECORDED CERTIFICATE OF A RESOLUTION PASSED BY BOARD OF COMMISSIONERS OF THE TOWN OF BELLEAIR, DATED SEPTEMBER 21, 1955. (THIS INFORMATION WAS SUPPLIED BY THE PINELLAS COUNTY PROPERTY APPRAISERS OFFICE.)

LIMITATIONS:

1. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR/CERTIFIED TO WILLBE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.

2. THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS AFFECTING THIS PROPERTY THAT MAY OR MAY NOT BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

3. LAST DATE OF ORIGINAL FIELD WORK WAS COMPLETED ON 3-19-1997 AND IS CONTAINED IN FIELD BOOK 248, PAGES 56 THRU 61, FIELD BOOK 255, PAGES 57 THRU 70 AND FIELD BOOK 300, PAGES 67 THRU 72; FIELD WORK FOR REVISION 4 WAS COMPLETED ON 3-29-2007 AND IS CONTAINED IN FIELD BOOK 1322, PAGES 7 THRU 10. FIELD WORK FOR REVISION 5 WAS COMPLETED ON 11-23-2016 AND IS CONTAINED IN FIELD BOOK 1835, PAGES 5 THRU 18, AND FIELD BOOK 1836, PAGES 5 AND 6.

4. PRINTED DIMENSIONS SHOWN ON THE SURVEY SUPERSEDE SCALED DIMENSIONS. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.

5. CALCULATED (C) GEOMETRY SHOWN HEREON WAS CALCULATED USING FIELD LOCATED POINTS AND CERTAIN PUBLISHED DATA (SEE DATA SOURCES).

6. SHOWN ANYWHERE ON THIS SURVEY, THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF A PROFESSIONAL OPINION, BASED UPON THE SURVEYOR'S BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT THUS CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY.

7. SUBSURFACE FOUNDATIONS AND COMMON WALLS, ALONG WITH THEIR LOCATIONS HAVE NOT BEEN DETERMINED.

8. IRRIGATION EQUIPMENT AND/OR THEIR APPURTENANCES HAVE NOT BEEN LOCATED UNLESS OTHERWISE SHOWN ON MAP OF SURVEY.

9. THE LOCATIONS OF THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WERE PERFORMED BY A FIELD SURVEY AND ONLY LOCATED AS SHOWN ON THE MAP OF SURVEY. ONLY THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WHICH WERE VISIBLE FROM GROUND LEVEL TO THE SURVEYOR ON THE ACTUAL DAY OF THE FIELD SURVEY WERE LOCATED AND MAPPED. NO EXCAVATIONS OR SUBSURFACE WORK EFFORTS OF ANY KIND WERE PERFORMED BY THE SURVEYOR TO VERIFY THE EXISTENCE OF ANY UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.

10. HORIZONTAL DIMENSIONS FROM BOUNDARY LINES TO LOCATED ITEMS WHICH USE SYMBOLS (SEE SYMBOL LEGEND) ARE MEASURED TO THEIR CENTER.

11. NO MAPPING OF INTERIOR FEATURES WAS PERFORMED. ONLY THE VISIBLE IMPROVEMENTS WHICH ARE NEAR OR CROSSOVER THE SUBJECT PROPERTY BOUNDARY LINES WERE MAPPED AND SHOWN ON THE MAP OF SURVEY.

12. NO INFORMATION ON ADJOINING PROPERTY OWNERS WAS SUPPLIED TO THE SURVEYOR.

13. SUBJECT PROPERTY LIES WITHIN FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN, PER FLOOD INSURANCE RATE MAP, MAP NUMBER 12103C0116H, MAP REVISED MAY 17, 2005.

LIMITATIONS:(CONTINUED)

14. THE SUBJECT PROPERTY IS ZONED GOLF COURSE (GC) ACCORDING TO THE TOWN OF BELLEAIR OFFICIAL ZONING MAP, PREPARED BY THE OFFICE OF THE PINELLAS COUNTY PROPERTY APPRAISER, DATE PRINTED OCTOBER 18, 2005. THE CODE OF ORDINANCES FOR THE TOWN OF BELLEAIR, FLORIDA, PASSED AND ADOPTED ON APRIL 19, 1994 LIST THE SETBACKS AS FOLLOWS:

LOT MINIMUMS
AREA = --
WIDTH = NONE
DEPTH = NONE
DENSITY MAXIMUM DWELLING UNITS PER ACRE = NONE

MINIMUM YARD SETBACKS
FRONT = 25 FEET
SIDE = 25 FEET
REAR = 25 FEET
MAXIMUM HEIGHT = 32 FEET
FLOOD ZONE'S = 'A'
MINIMUM LIVING AREA PER UNIT = N/A
FLOOR AREA RATIO = TOWN COMMISSION APPROVAL

BOUNDARY INCONSISTENCIES:

ANY ANGULAR AND/OR DIMENSIONAL DISCREPANCIES BETWEEN THE LEGAL DESCRIPTION(S) AND THE FIELD LOCATED OCCUPATION BOUNDARY CORNERS, AND BOUNDARY CORNERS WITH MULTIPLE BOUNDARY MONUMENTS ALONG WITH THEIR CORRESPONDING QUADRANT DIRECTIONAL MISSES, ARE SHOWN ON THE MAP OF SURVEY.

APPARENT PHYSICAL USE:

1. THE SUBJECT PROPERTY (PARCEL IV) IS APPARENTLY BEING USED AS A GOLF COURSE.

EASEMENTS/RIGHTS-OF-WAY:

1. SEE DATA SOURCES 2.

2. SEE LIMITATIONS 2.

THE FOLLOWING ARE ITEMS AFFECTING THIS SUBJECT PROPERTY (PARCEL IV) PER SCHEDULE B SECTION II OF THE TITLE COMMITMENT REFERENCED IN DATA SOURCES 2: (THE NUMBERS SHOWN AS (#) CORRESPOND WITH SAID COMMITMENT)

3. (1) Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment. (NOT A SURVEY MATTER)

4. (2) Taxes and assessments for the year 2007 and subsequent years. (NOT A SURVEY MATTER)

5. (3) Rights of parties in possession, other than the record owner. (NOT A SURVEY MATTER)

6. (4). Any lien, or right to a lien, for services, labor, or materials heretofore or hereafter furnished, imposed by law and not shown by the Public Records. (NOT A SURVEY MATTER)

7. (5) A 10 foot drainage and utility easement along the North boundary of the Plat of Pelican Golf Course recorded in Plat Book 53, Page 45 and 46. (As to Parcel IV). (SHOWN ON MAP OF SURVEY)

8. (6) Agreement recorded in Official Records Book 266, Page 126. (As to Parcel IV). (NOT A SURVEY MATTER)

9. (14) Revocable License Agreement recorded in Official Records Book 5836, Page 919. (As to Parcel IV). (SHOWN ON MAP OF SURVEY AS (05))

10. (15) Grant of Easement in favor of Town of Belleair, a municipal corporation, as set forth in instrument recorded in Official Records Book 6464, Page 916. (As to Parcel IV) (PERMANENT DRAINAGE EASEMENT (P13) SHOWN AS (01) AND PERMANENT DRAINAGE EASEMENT (P14) SHOWN AS (02) ON MAP OF SURVEY. THE TEMPORARY CONSTRUCTION EASEMENTS ARE NOT SHOWN AS THE RECORD DOCUMENT STATES THAT THE TEMPORARY CONSTRUCTION EASEMENTS ARE VALID UNTIL COMPLETION AND ACCEPTANCE OF THE CONSTRUCTION PROJECT OR UNTIL SEPTEMBER 31, 1985, WHICHEVER DATE SHALL FIRST OCCUR.)

11. (10) Agreement by and between Peshaps Corporation and the Town of Belleair, as evidenced by the Memorandum of Agreement recorded in Official Records Book 6536, Page 1095. (As to Parcel IV). (NOT A SURVEY MATTER)

12. (19) Municipal Drainage Easement in favor of the Town of Belleair, Florida, a municipal corporation, as set forth in instrument recorded in Official Records Book 6464, Page 1095. (As to Parcel IV). (GOLF VIEW DRIVE DRAINAGE AREA SHOWN AS (03) AND POINSETTIA/CYPRESS DRAINAGE AREA SHOWN AS (04) ON MAP OF SURVEY)

13. (22) Distribution Easement in favor of Florida Power Corporation, a Florida corporation, as set forth in instrument recorded in Official Records Book 7516, Page 1107. (As to Parcel IV). (DESCRIBED AS "that ten foot wide strip of land lying ten feet on each side of the centerline of Grantee's facilities", A NON-PLOTTABLE BLANKET TYPE EASEMENT LYING WITHIN THE ENTIRE SUBJECT PROPERTY)

14. (24) Amended and Restated Easement Agreement by and between MIDD USA, Inc., a Florida corporation and Town of Belleair, a Florida municipal corporation recorded in Official Records Book 9616, Page 1279 (as to Parcel IV). (SHOWN AS (06) ON MAP OF SURVEY)

15. (26) Corporate Membership Agreement recorded in Official Record Book 12688, Page 2234. (As to Parcel IV). (NOT A SURVEY MATTER)

16. (29) Terms and conditions of all agreements and franchises pertaining to the cost, installation, operation and maintenance of any gaps, water and/or sewer facilities. (As to all parcels). (NOT A SURVEY MATTER)

17. (31) Rights of tenant(s) in possession, if any, under lease(s) not recorded in the Public Records. (NOT A SURVEY MATTER)

18. (39) matters shown on the boundary survey dated March 19, 1907, prepared by Florida Design Consultants, Inc., Project No. 166-01 (As to Parcel IV only). (SEE MAP OF SURVEY)

PROJECT DATUM :

HORIZONTAL:

COORDINATES (IN U.S. SURVEY FEET) ARE BASED ON NATIONAL GEODETIC SURVEY (NGS), STATE PLANE COORDINATES, FLORIDA WEST ZONE, NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT

CONTROL STATIONS UTILIZED:

(1) A FOUND 12" DIAMETER CONCRETE MONUMENT WITH SURVEY DISK STAMPED "BAUDER P", DESIGNATED BY NGS AS "BAUDER P". PID = AD3329 (NORTHING = 1,310,161.29, EASTING = 339,278.06).

(2) A FOUND 12" DIAMETER CONCRETE MONUMENT WITH SURVEY DISK STAMPED "HALL R", DESIGNATED BY NGS AS "HALL R". PID = AD0368 (NORTHING = 1,310,839.47, EASTING = 336,574.59). BOTH PUBLISHED BY THE NATIONAL GEODETIC SURVEY WEB SITE: (http://www.ngs.noaa.gov)

PREPARED FOR:

CARDNO

CERTIFIED TO:

CARDNO
ALLIED/BELLEVIEW, INC.
LAWYERS TITLE INSURANCE CORPORATION
BH & WAC, LLC
URDANG CAPITAL MANAGEMENT, INC.
INTERUDI BANK
LEGG MASON REAL ESTATE INVESTORS, INC. - CRE X, LLC

SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE:

JARED T. PATENAUDE
STATE OF FLORIDA PROFESSIONAL
SURVEYOR AND MAPPER
LICENSE NUMBER LS 6971

DOCUMENT LEGEND

(P1) = Plat Book 53, pg 45
(P2) = Plat Book 18, pg 52
(P3) = Plat Book 53, pg 5
(P4) = Plat Book 2, pg 82
(P5) = Plat Book 40, pg 6
(D1) = OR 6464, PG 916 (P13)
(D2) = OR 6464, PG 916 (P14)
(D3) = OR 6622, PG 891 (GULFVIEW DRAINAGE AREA)
(D4) = OR 6622, PG 881 (POINSETTIA/CYPRESS DRAINAGE AREA)
(D5) = OR 5856, PG 919
(D6) = OR 9616, PG 1279
POB1 = PB 53, PG 45
POB2 = Exception 1
POB3 = Exception 2
POB4 = Exception 3

LINETYPE LEGEND

= Boundary Line
= Center Line
= Easement Line
= Edge of Water
= Jurisdictional Line
= Right-Of-Way Line
= Section Line
= Top Bank or Top of Berm
= Toe of Slope or Grade Break

SYMBOLS LEGEND

= Aerial Target
= Bench Mark
CTV = Cable TV Point Stripe
= Cable TV Box
= Communications Manhole
= Concrete Light Pole
= Concrete Post
= Concrete Utility Pole
= Drainage Manhole
= Electric Box
= Electric Manhole
FPCS = FPC Point Stripe
= FPC Pedestal
= Fire Hydrant
= Flag Pole
= Gas Line Marker
= Gas Filler Cap
= Gas Valve
= Gas Meter Box
GPS = Gas Line Point Stripe
= Grate Inlet
= GTE Manhole
= GTE Pedestal
= GTE Marker
= Guy Wire
= Light Pole
= Mail Box
= Metal Post
= Monitoring Well
= Parking Meter
RWPS = Reclaimed Water Point Stripe
= Reclaimed Water Box
= Reclaimed Water Valve
= Sanitary Sewer Manhole
= Sanitary Cleanout
SWPS = Sanitary Sewer Point Stripe
= Section Corner
= Siamese Connection
= Sign
= Sprinkler Control Box
= Sprinkler Head
STMPS = Storm Water Point Stripe
= Traffic Signal Box
= Traffic Signal Pole
WPS = Water Line Point Stripe
= Water Meter
= Water Valve
= Wood Utility Pole
= Wood Light Pole
= Wood Post
= Point of Elevation
25.5' = Calculated Dimension from Structure to Boundary / Right-of-Way Line

ABBREVIATIONS LEGEND

AC = Acres
A/C = Air Conditioner
ADW = Asphalt Driveway
ADS = Advance Drainage Systems
ASPH = Asphalt
B/C = Back of Curb
BCCM = Board of County Commissioners Minutes Book
BFPD = Back Flow Prevention Device
BLDG = Building
BNDY = Boundary
BWF = Barb Wire Fence
(C) = Calculated Data
C/C = Covered Concrete
CCCL = Coastal Construction Control Line
CCR = Certified Corner Record
CDW = Concrete Driveway
CI = Curb Inlet
℄ = Center Line
CLF = Chain Link Fence
CM = Concrete Monument
CMP = Corrugated Metal Pipe
CO = Clean out
CONC = Concrete
COR = Corner
CPB = Concrete Plat Book
C/S = Concrete Slab
C/T = Curb Tie
DB = Deed Book
DCVA = Double Check Valve Assembly
DNR = Department of Natural Resources
DEPT = Department
DIA = Diameter
DIP = Ductile Iron Pipe
DMH = Drainage Manhole
D/W = Driveway
E = East
ECMP = Elliptical Corrugated Metal Pipe
EL = Elevation
EOW = Edge of Water
E/P = Edge of Pavement
ERCP = Elliptical Reinforced Concrete Pipe
ESMT = Easement
(F) = Field Data
FAC = Florida Administrative Code
FCM = Found Concrete Monument
FDOT = Florida Department of Transportation
FH = Fire Hydrant
FIR = Found Iron Rod and Cap
FN = Found Nail
FND = Found
FN&D = Found Nail and Disk
FFE = Finished Floor Elevation
FN&TT = Found Nail and Tin Tab
FOP = Found Open End Iron Pipe
FPB = Florida Power Corporation Box
FPC = Florida Power Corporation
FPP = Found Pinched Iron Pipe
FRRS = Found Railroad Spike
FT = Feet
F/T = Fence Tie
FXC = Found X-cut
G/A = Guy Wire Anchor
GE = Grate Elevation
GI = Grate Inlet
GV = Gas Valve
IE = Invert Elevation
INV = Invert
LB = Corporate Certification Number
LP = Light Pole
LS = Licensed Surveyor
MAS = Masonry
MES = Mitered End Section
MH = Manhole
MHW = Mean High Water
MOL = More or Less
N = North
N/C = No Cap
N/F = Not Found
NAD = North American Datum
NAVD = North American Vertical Datum
NCS = National Geodetic Survey
NGVD = National Geodetic Vertical Datum
NKA = Now Known As
NP = Normal Pool Elevation
(NR) = Non Radial
O/A = Overall
OHW = Overhead Wire
OR = Official Record Book
(PA) = Property Appraisers Map Data
PB = Plat Book
PC = Point of Curvature
PCED = Pasco County Engineering Department
PCP = Permanent Control Point
PG(S) = Pages
PI = Point of Intersection
PID = Permanent Identification Number
℄ = Property Line
PLS = Professional Land Surveyor
POB = Point of Beginning
POC = Point of Commencement
POL = Point on Line
PRM = Permanent Reference Monument
PSM = Professional Surveyor and Mapper
PT = Point of Tangency \ Point
PVC = Polyvinyl Chloride Pipe
(R) = Recorded Data
RCP = Reinforced Concrete Pipe
RLS = Registered Land Surveyor
RNG = Range
R/W = Right of Way
S = South
SCM = Set Concrete Monument, 4"x4", PRM LB 6707
SCM(W) = Set Concrete Monument, 4"x4", FDC LB 6707 WITNESS PT
SEC = Section
SHW = Seasonal High Water Elevation
SIR = Set 5/8"Iron Rod and Cap FDC LB 6707
SIR(T) = Set 5/8"Iron Rod and Cap, FDC LB 6707 TRAV PT
SIR(W) = Set 5/8"Iron Rod and Cap, FDC LB 6707 WITNESS PT
SMH = Sanitary Manhole
SN&D = Set Nail and Disk
SN&D(T) = Set Nail and Disk, FDC LB 6707 TRAV PT
SN&D(W) = Set Nail and Disk, FDC LB 6707 WITNESS PT
SQ = Square
SR = State Road
STY = Story
S/W = Sidewalk
TBM = Temporary Benchmark
TOB = Top of Bank
TRAV = Traverse
(TYP) = Typical
TWP = Township
U/P = Utility Pole
VCP = Vitrified Clay Pipe
W = West
W/ = With
WF = Wood Fence
WF = Wire Fence
WM = Water Meter
WPP = Wood Utility Pole
W/T = Wall Tie
WV = Water Valve
xx° = Degrees
xx' = Minutes (Bearings)
xx" = Seconds (Bearing)
xx' = Feet (Distances)

LAST DATE OF FIELD WORK REVISION 5: 11-23-16
LAST DATE OF FIELD WORK REVISION 4: 3-29-07
THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER

DRAWN: SAA/BDH
CHECKED:
QUALITY CONTROL:

FLORIDA DESIGN CONSULTANTS, INC.
THINK IT. ACHIEVE IT.
3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34655
PHONE: (352) 232-1047 WWW.FLDESIGN.COM L.B. NO. 6707

SUBJECT:
PELICAN GOLF COURSE
(NKA BELLEVIEW BILTMORE GOLF AND COUNTRY CLUB)
PARCEL IV

SHEET DESCRIPTION:
BOUNDARY SURVEY

NO.	DATE	REVISIONS	BY	QUALITY CONTROL
5	12/5/16	UPDATE BOUNDARY SURVEY	CWF	JTP
4	4/5/07	UPDATE BOUNDARY SURVEY	JST	JDK
3	4/5/97	ADD DATA SOURCE 6, ADD TO CERTIFICATION (NO FIELD WORK)	SKA	
2	4/7/97	REVISE DATA SOURCE NOTES 2, 5, LINETYPES (NO FIELD WORK)	SKA	
1	3/28/97	REVISE LIMITATION NOTE 2, EASEMENT NOTE 8 (NO FIELD WORK)	SKA	

SHEET INDEX:
1. SURVEYOR'S REPORT AND LEGENDS
2-4. BOUNDARY DETAIL
5-15. MAP OF SURVEY

ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED.

JOB NUMBER: 2005-0002 FPN: 264
PROJECT DATA BASE: 166-01
FIELD BOOK NUMBER & PAGES: 248/56-61, 255/57-70, 300/67-72, 1322/7-10, 1835/5-18, 1836/5-6
LAST DATE OF ORIGINAL FIELD WORK: 3-19-1997
SCALE: NONE

SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

JARED T. PATENAUDE
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER PSM 6971
STATE OF FLORIDA

SHEET 1 OF 15

VARIANCE REQUEST #5: Request for Variance to Required Landscaping in Buffer Zone of Golf Course, pursuant to Section 74-232(b)(4) of Town Code.

JUSTIFICATIONS (per Section 66-253(b)(1) of Town Code):

1. Special conditions and circumstances exist which are peculiar to the land, structure or buildings involved.

Around the Clubhouse parcel, the applicant has agreed to meet the standard required by the Type-A and or Type-B buffer. In areas of the golf course perimeter where there is little to no existing vegetation, the applicant has also agreed to meet the standard required by the Type-A and Type-B buffer. The variance request specifically pertains to the remaining golf course perimeter where existing groves of mature vegetation already exist. These large trees and shrubs already effectively meet the intent of the buffer requirements.

2. The special conditions and circumstances do not result from actions of the applicant.

The special condition is that there is already mature vegetation in place along most of the golf course perimeter that achieves the intent of the buffer requirements. The applicant intends to leave all trees and vegetation on the perimeter of the golf course. In fact, generally the intent of the Landscaping Plan is to create a visual and physical buffer between the golf course and surrounding uses.

3. Literal interpretation of the provisions of this Code would work unnecessary and undue hardship on the applicant.

Literal interpretation of the provisions of this Code would require the applicant to attempt to plant trees in the many areas along the golf course perimeter that already have large trees. This type of ground disturbance activity in groves of mature trees could jeopardize the health of the existing trees. There would also be survivability concerns for any new, smaller trees planted in the canopies of the mature groves of trees as competition for sunlight would be a challenge.

4. The variance, if granted, is the minimum variance that will make possible the reasonable use of the land, structure or building.

The Landscape Plans demonstrate that the applicant is meeting the intent of the landscape buffer on all perimeters of the property.

5. A grant of variance will be in harmony with the general intent and purpose of this Code, and that such variance will not be injurious to the zoning district involved or otherwise detrimental to the public interest.

The intent of the code is to allow reasonable and appropriate development with the Town and the granting of this variance will not be injurious to the zoning district or otherwise detrimental to the public interest.

6. A grant of variance will not result in any land use not specifically provided for in the schedule of district regulations (section 74-82 of this Code) for the zoning district in which the property is located.

The granting of this variance will not result in any adverse land use.

Letter of Authorization

MACFARLANE FERGUSON & MCMULLEN

ATTORNEYS AND COUNSELORS AT LAW

ONE TAMPA CITY CENTER, SUITE 2000
201 NORTH FRANKLIN STREET
P.O. BOX 1531 (ZIP 33601)
TAMPA, FLORIDA 33602
(813) 273-4200 FAX (813) 273-4396

www.mfmlegal.com
EMAIL: info@mfmlegal.com

625 COURT STREET
P.O. BOX 1669 (ZIP 33757)
CLEARWATER, FLORIDA 33756
(727) 441-8966 FAX (727) 442-8470

IN REPLY REFER TO:

Clearwater

July 19, 2016

ATTN: Micah Maxwell
Town of Belleair
901 Ponce de Leon Boulevard
Belleair, FL 33756

RE: Tow of Belleair sale of 1501 Indian Rocks Road to Pelican Golf LLC and Clubhouse Property (the "Property")

Dear Micah:

This letter is being sent to you in my capacity as counsel for Pelican Golf LLC as the purchaser of the above-referenced Property.

As you know pursuant to Purchaser's proposed development plans, a development application is scheduled to be filed next month. This is a unique situation since the applicant does not yet own the property. Therefore please allow this letter to serve as a formal request to your office and the Town Commission that Pelican Golf LLC be authorized to file the development application as the contract vendee, on behalf of the Town of Belleair, as the owner and contract vendor.

Thank you for your cooperation in this regard

Sincerely yours,

Thomas C. Nash, II

TCN:koh

Hydrology & Hydraulics

ICPR Model

EXISTING CONDITION

EXISTING DRAINAGE BASIN DATA

PROJECT NAME: Pelican Golf Club

PROJECT NUMBER:

COUNTY: Pinellas

Date: December 2, 2016

LAND COVER	CN
PAVEMENT	98
GRASS	39
WATER	100

CN Values from FDOT Hydrology Handbook (Table T-7)

BASIN	AREA (AC)			TOTAL AREA (AC)	WEIGHTED CN
	PAVED	WATER	GRASS		
Ex_B_BBGP	2.20	1.00	6.39	*9.59*	58.9

J:\E2160\E2160208.00\doc\calcs\[Basin.xls]pondvol

==========
==== Basins ====
==========

Name: Ex_B-A Node: Ex_Pond-A Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 20.00
Area(ac): 12.790 Time Shift(hrs): 0.00
Curve Number: 42.10 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B-B Node: Ex_Pond-B Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 18.00
Area(ac): 38.880 Time Shift(hrs): 0.00
Curve Number: 43.20 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B-G Node: Ex_Pond-G Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 22.00
Area(ac): 30.600 Time Shift(hrs): 0.00
Curve Number: 44.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B-H Node: Ex_Pond-E Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 15.00
Area(ac): 12.200 Time Shift(hrs): 0.00
Curve Number: 45.10 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B_BBGP Node: Ex_Pond-D Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 16.00
Area(ac): 9.590 Time Shift(hrs): 0.00
Curve Number: 58.90 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B_BeFor Node: Ex_N-12 Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00

Rainfall Amount(in): 0.000 Time of Conc(min): 27.00
Area(ac): 26.100 Time Shift(hrs): 0.00
Curve Number: 60.40 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B_GVDN Node: Ex_N-17 Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 3.020 Time Shift(hrs): 0.00
Curve Number: 61.60 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B_GVDS Node: Ex_N-1 Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 22.00
Area(ac): 22.540 Time Shift(hrs): 0.00
Curve Number: 61.30 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B_HiRd Node: Ex_N-15 Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 16.00
Area(ac): 4.400 Time Shift(hrs): 0.00
Curve Number: 62.70 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B_K Node: E_Outfall_Ditch Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 12.00
Area(ac): 2.310 Time Shift(hrs): 0.00
Curve Number: 41.90 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B_Maint Node: Ex_Pond-F Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 20.00
Area(ac): 24.700 Time Shift(hrs): 0.00
Curve Number: 40.90 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B_PoRd Node: Ex_N-10 Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 15.00
Area(ac): 7.040 Time Shift(hrs): 0.00
Curve Number: 65.40 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ex_B_PrRange Node: Ex_Pond-C Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 21.00
Area(ac): 24.170 Time Shift(hrs): 0.00
Curve Number: 40.20 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ==========
==========

Name: E_Outfall_Ditch Base Flow(cfs): 0.000 Init Stage(ft): 35.080
Group: BASE Warn Stage(ft): 42.000
Type: Stage/Area

Initial Stage = FL of the outfall pipe

Stage(ft)	Area(ac)
35.000	0.0200
36.000	0.0600
37.000	0.0800
38.000	0.1100
39.000	0.1500
40.000	0.2000
41.000	0.2700
42.000	0.4400

Name: Ex-N-5 Base Flow(cfs): 0.000 Init Stage(ft): 38.020
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Stage(ft)	Area(ac)
35.500	0.0010
37.000	0.0060
38.000	0.0500
39.000	0.0800
40.000	0.1100
41.000	0.1500
42.000	0.2700
43.000	0.7400

Name: Ex_N-1 Base Flow(cfs): 0.000 Init Stage(ft): 38.550
Group: BASE Warn Stage(ft): 46.000
Type: Stage/Area

Stage(ft)	Area(ac)
38.550	0.0010
45.000	3.7200
46.000	12.6700

Name: Ex_N-10 Base Flow(cfs): 0.000 Init Stage(ft): 38.020
Group: BASE Warn Stage(ft): 44.000
Type: Stage/Area

Initial Stage = Initial Stage of Downstream Pond

Stage(ft)	Area(ac)
37.580	0.0010
42.620	0.0010
43.000	0.2100
44.000	1.0700

Name: Ex_N-11 Base Flow(cfs): 0.000 Init Stage(ft): 38.020
Group: BASE Warn Stage(ft): 42.000
Type: Stage/Area

Initial Stage = Initial Stage of Downstream Pond

Stage(ft)	Area(ac)
35.700	0.0010
37.000	0.0500
38.000	0.1100
39.000	0.1500
40.000	0.2000
41.000	0.4000
42.000	0.7000

Name: Ex_N-12 Base Flow(cfs): 0.000 Init Stage(ft): 39.430
Group: BASE Warn Stage(ft): 46.000
Type: Stage/Area

Stage(ft)	Area(ac)
39.430	0.0010
42.900	0.0010
43.000	0.1200
44.000	0.6200
45.000	1.3600
46.000	2.7100

Name: Ex_N-13 Base Flow(cfs): 0.000 Init Stage(ft): 38.020
Group: BASE Warn Stage(ft): 42.000
Type: Stage/Area

Initial Stage = Initial Stage of Downstream Pond

Stage(ft)	Area(ac)
36.000	0.0090
37.000	0.0500
38.000	0.1200
39.000	0.2000
40.000	0.3000
41.000	0.3500
42.000	0.4600

Name: Ex_N-15 Base Flow(cfs): 0.000 Init Stage(ft): 39.490
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Stage(ft)	Area(ac)
39.490	0.0010
42.000	0.2200

43.000	0.6500

Name: Ex_N-16 Base Flow(cfs): 0.000 Init Stage(ft): 37.850
Group: BASE Warn Stage(ft): 42.000
Type: Stage/Area

Initial Stage = Pipe Invert

Stage(ft)	Area(ac)
36.000	0.0200
37.000	0.0800
38.000	0.1600
39.000	0.2100
40.000	0.2600
41.000	0.3300
42.000	0.7000

Name: Ex_N-17 Base Flow(cfs): 0.000 Init Stage(ft): 44.870
Group: BASE Warn Stage(ft): 47.000
Type: Stage/Area

Initial Stage = Pipe Invert

Stage(ft)	Area(ac)
44.800	0.0010
46.000	0.0010
47.000	0.7500

Name: Ex_N-19 Base Flow(cfs): 0.000 Init Stage(ft): 39.460
Group: BASE Warn Stage(ft): 45.000
Type: Stage/Area

Stage(ft)	Area(ac)
39.460	0.0010
43.020	0.0010
44.000	0.0100
45.000	0.0500

Name: Ex_N-21 Base Flow(cfs): 0.000 Init Stage(ft): 37.850
Group: BASE Warn Stage(ft): 42.000
Type: Stage/Area

Initial Stage = Higher Elevation of the Initial Stage of Downstream Pond, Lowest Weir or Pipe Invert

Stage(ft)	Area(ac)
36.000	0.0030
37.000	0.0250
38.000	0.0340
39.000	0.0400
40.000	0.0500
41.000	0.0750
42.000	0.1250

Name: Ex_N-3 Base Flow(cfs): 0.000 Init Stage(ft): 38.650
Group: BASE Warn Stage(ft): 45.000
Type: Stage/Area

Stage(ft)	Area(ac)
38.650	0.0010
39.000	0.0700
40.000	0.1300

41.000	0.1700
42.000	0.2100
43.000	0.2900
44.000	0.5500
45.000	1.2300

Name: Ex_N-7 Base Flow(cfs): 0.000 Init Stage(ft): 38.660
Group: BASE Warn Stage(ft): 44.000
Type: Stage/Area

Stage(ft)	Area(ac)
38.660	0.0010
43.000	0.0500
44.000	0.1600
44.500	0.2600

Name: Ex_N-9 Base Flow(cfs): 0.000 Init Stage(ft): 38.020
Group: BASE Warn Stage(ft): 42.610
Type: Stage/Area

Initial Stage = Initial Stage of Downstream Pond

Stage(ft)	Area(ac)
37.400	0.0010
42.610	0.0010

Name: Ex_Outfall Base Flow(cfs): 0.000 Init Stage(ft): 36.210
Group: BASE Warn Stage(ft): 36.210
Type: Time/Stage

Stage = Crown elevation of the outfall pipe (approximatly 870' @ 34.09 NGVD = 33.021 NAVD)

Time(hrs)	Stage(ft)
0.00	36.210
999.00	36.210

Name: Ex_Pond-A Base Flow(cfs): 0.000 Init Stage(ft): 39.610
Group: BASE Warn Stage(ft): 45.000
Type: Stage/Area

Initial stage = outfall pipe invert

Stage(ft)	Area(ac)
35.000	0.0700
36.000	0.1800
37.000	0.2700
38.000	0.3900
39.000	0.5400
40.000	0.6600
41.000	0.7400
42.000	0.8300
43.000	1.0700
44.000	1.6600
45.000	2.2700

Name: Ex_Pond-B Base Flow(cfs): 0.000 Init Stage(ft): 38.860
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Initial Stage = Lowest Weir Elevation

Stage(ft)	Area(ac)
37.000	0.2000

38.000	0.9300
39.000	2.3500
40.000	2.7000
41.000	3.0200
42.000	4.0000
43.000	7.9600

Name: Ex_Pond-C Base Flow(cfs): 0.000 Init Stage(ft): 38.020
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Initial Stage = Higher Elevation of the Initial Stage of Downstream Pond or Lowest Weir

Stage(ft)	Area(ac)
36.000	0.0100
37.000	0.0800
38.000	0.3400
39.000	0.4800
40.000	0.6100
41.000	0.9100
42.000	1.6800
43.000	2.4200

Name: Ex_Pond-D Base Flow(cfs): 0.000 Init Stage(ft): 44.220
Group: BASE Warn Stage(ft): 45.500
Type: Stage/Area

Outfall pipe elevation

Stage(ft)	Area(ac)
38.000	0.2100
39.000	0.2600
40.000	0.3200
41.000	0.4500
42.000	0.7000
43.000	0.9000
44.000	1.1000
45.000	1.5300
45.500	2.1000

Name: Ex_Pond-E Base Flow(cfs): 0.000 Init Stage(ft): 42.970
Group: BASE Warn Stage(ft): 45.000
Type: Stage/Area

Initial Stage = Existing Outfall Pipe Invert Elevation

Stage(ft)	Area(ac)
38.000	0.0100
39.000	0.1100
40.000	0.3000
41.000	0.6000
42.000	0.8200
43.000	1.1600
44.000	1.4400
45.000	2.1000

Name: Ex_Pond-F Base Flow(cfs): 0.000 Init Stage(ft): 37.620
Group: BASE Warn Stage(ft): 42.000
Type: Stage/Area

Initial Stage = Water surface elevation of the pond which is control by the lip/weir at the upstream of the pipe

Stage(ft)	Area(ac)
35.000	0.0100
36.000	0.1900
37.000	0.3600
38.000	0.6000

39.000	0.6600
40.000	0.7500
41.000	0.9800
42.000	1.2000

Name: Ex_Pond-G Base Flow(cfs): 0.000 Init Stage(ft): 38.020
Group: BASE Warn Stage(ft): 42.000
Type: Stage/Area

Stage(ft)	Area(ac)
28.000	0.0300
29.000	0.2200
30.000	0.6300
31.000	0.8900
32.000	1.1400
33.000	1.3100
34.000	1.4900
35.000	1.7000
36.000	1.9300
37.000	2.1700
38.000	2.3000
39.000	2.5000
40.000	3.1000
41.000	3.8300
42.000	4.4400

Cross Sections

Name: wier_lake_g Group: BASE
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	42.000	0.020000
9.930	41.000	0.020000
67.250	40.000	0.020000
69.950	39.000	0.020000
70.770	38.020	0.020000
89.070	38.020	0.012000
90.160	39.000	0.020000
92.450	40.000	0.020000
135.730	41.000	0.020000
186.600	42.000	0.020000

Pipes

Name: Ex_P-1 From Node: Ex_N-1 Length(ft): 157.00
Group: BASE To Node: Ex_Pond-A Count: 1
Friction Equation: Automatic

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Solution Algorithm:	Most Restrictive
Span(in):	36.00	36.00	Flow:	Both
Rise(in):	36.00	36.00	Entrance Loss Coef:	0.00
Invert(ft):	38.550	38.060	Exit Loss Coef:	1.00
Manning's N:	0.012000	0.012000	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

RCP

Name:	Ex_P-10	From Node:	Ex_N-11	Length(ft): 21.00
Group:	BASE	To Node:	Ex_Pond-G	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Horz Ellipse	Horz Ellipse		Flow: Both
Span(in):	72.00	72.00		Entrance Loss Coef: 0.00
Rise(in):	44.00	44.00		Exit Loss Coef: 1.00
Invert(ft):	35.700	35.600		Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000		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		Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

ECMP

Name:	Ex_P-12	From Node:	Ex_Pond-E	Length(ft): 465.00
Group:	BASE	To Node:	Ex_N-19	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular		Flow: Both
Span(in):	24.00	24.00		Entrance Loss Coef: 0.00
Rise(in):	24.00	24.00		Exit Loss Coef: 1.00
Invert(ft):	42.970	39.460		Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000		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		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

CPP

Name:	Ex_P-13	From Node:	Ex_N-19	Length(ft): 627.00
Group:	BASE	To Node:	Ex_Pond-F	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular		Flow: Both
Span(in):	24.00	24.00		Entrance Loss Coef: 0.00
Rise(in):	24.00	24.00		Exit Loss Coef: 1.00
Invert(ft):	39.460	37.930		Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000		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		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

CPP

Name:	Ex_P-14	From Node:	Ex_N-16	Length(ft): 41.00
Group:	BASE	To Node:	Ex_Pond-F	Count: 1

			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	48.00	48.00	Entrance Loss Coef:	0.00
Rise(in):	48.00	48.00	Exit Loss Coef:	1.00
Invert(ft):	37.850	37.780	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	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	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

CPP

Name:	Ex_P-15	From Node:	Ex_Pond-F	Length(ft): 185.00
Group:	BASE	To Node:	E_Outfall_Ditch	Count: 1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	48.00	48.00	Entrance Loss Coef:	0.00
Rise(in):	48.00	48.00	Exit Loss Coef:	1.00
Invert(ft):	36.260	35.340	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	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	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

CMP

Name:	Ex_P-16	From Node:	Ex_N-17	Length(ft): 202.00
Group:	BASE	To Node:	Ex_Pond-E	Count: 1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	18.00	18.00	Entrance Loss Coef:	0.00
Rise(in):	18.00	18.00	Exit Loss Coef:	1.00
Invert(ft):	44.870	43.160	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	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	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

CPP

Name:	Ex_P-17	From Node:	Ex_N-12	Length(ft): 450.00
Group:	BASE	To Node:	Ex_N-13	Count: 1
			Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular	Flow:	Both
Span(in):	36.00	36.00	Entrance Loss Coef:	0.00
Rise(in):	36.00	36.00	Exit Loss Coef:	1.00
Invert(ft):	39.430	37.880	Bend Loss Coef:	0.00

Manning's N:	0.012000	0.012000	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	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

RCP

Name:	Ex_P-18	From Node: Ex_N-13	Length(ft): 21.00
Group:	BASE	To Node: Ex_Pond-G	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	48.00	48.00	Entrance Loss Coef: 0.00
Rise(in):	48.00	48.00	Exit Loss Coef: 1.00
Invert(ft):	36.690	36.300	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

VERIFY PIPE SIZE

Name:	Ex_P-19	From Node: Ex_N-15	Length(ft): 181.00
Group:	BASE	To Node: Ex_N-16	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	15.00	15.00	Entrance Loss Coef: 0.00
Rise(in):	15.00	15.00	Exit Loss Coef: 1.00
Invert(ft):	39.490	38.410	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

PVC

Name:	Ex_P-22	From Node: E_Outfall_Ditch	Length(ft): 870.00
Group:	BASE	To Node: Ex_Outfall	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	36.00	36.00	Entrance Loss Coef: 0.00
Rise(in):	36.00	36.00	Exit Loss Coef: 1.00
Invert(ft):	35.080	33.330	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

Name:	Ex_P-3	From Node:	Ex_N-3	Length(ft): 544.00
Group:	BASE	To Node:	Ex-N-5	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular		Flow: Both
Span(in):	24.00	24.00		Entrance Loss Coef: 0.00
Rise(in):	24.00	24.00		Exit Loss Coef: 1.00
Invert(ft):	38.650	35.500		Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000		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		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

CPP

Name:	Ex_P-6	From Node:	Ex_N-7	Length(ft): 25.00
Group:	BASE	To Node:	Ex_Pond-C	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular		Flow: Both
Span(in):	12.00	15.00		Entrance Loss Coef: 0.00
Rise(in):	12.00	15.00		Exit Loss Coef: 1.00
Invert(ft):	38.660	38.660		Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000		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		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

PVC
CHANGE OF SIZE

Name:	Ex_P-7	From Node:	Ex-N-5	Length(ft): 21.00
Group:	BASE	To Node:	Ex_Pond-C	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular		Flow: Both
Span(in):	48.00	48.00		Entrance Loss Coef: 0.00
Rise(in):	48.00	48.00		Exit Loss Coef: 1.00
Invert(ft):	36.550	35.790		Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000		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		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

CMP

Name:	Ex_P-8B	From Node:	Ex_N-9	Length(ft):	32.00
Group:	BASE	To Node:	Ex_N-10	Count:	1
				Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm:	Most Restrictive
Geometry:	Horz Ellipse	Horz Ellipse		Flow:	Both
Span(in):	68.00	68.00		Entrance Loss Coef:	0.00
Rise(in):	43.00	43.00		Exit Loss Coef:	1.00
Invert(ft):	37.400	37.800		Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000		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		Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

ERCP

Name:	Ex_P-9	From Node:	Ex_N-10	Length(ft):	161.00
Group:	BASE	To Node:	Ex_N-11	Count:	1
				Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm:	Most Restrictive
Geometry:	Horz Ellipse	Horz Ellipse		Flow:	Both
Span(in):	68.00	68.00		Entrance Loss Coef:	0.00
Rise(in):	43.00	43.00		Exit Loss Coef:	1.00
Invert(ft):	37.580	37.020		Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000		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		Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

ERCP

Name:	Ex_P2	From Node:	Ex_Pond-A	Length(ft):	79.00
Group:	BASE	To Node:	Ex_N-3	Count:	1
				Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm:	Most Restrictive
Geometry:	Circular	Circular		Flow:	Both
Span(in):	24.00	24.00		Entrance Loss Coef:	0.00
Rise(in):	24.00	24.00		Exit Loss Coef:	1.00
Invert(ft):	39.610	39.270		Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000		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		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

CPP - Corrugated Polyethylene Pipe

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==== Drop Structures ==========
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```
         Name: Ex_DS-11            From Node: Ex_N-21           Length(ft): 21.00
        Group: BASE                  To Node: Ex_N-16                Count: 1

               UPSTREAM       DOWNSTREAM               Friction Equation: Automatic
     Geometry: Circular       Circular                Solution Algorithm: Most Restrictive
     Span(in): 48.00          48.00                                 Flow: Both
     Rise(in): 48.00          48.00                   Entrance Loss Coef: 0.000
   Invert(ft): 37.120         36.870                      Exit Loss Coef: 1.000
  Manning's N: 0.012000       0.012000                  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 5 for Drop Structure Ex_DS-11 ***
                                                                                TABLE
                  Count: 1                      Bottom Clip(in): 0.000
                   Type: Horizontal                Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular          Orifice Disc Coef: 0.600

               Span(in): 51.60                       Invert(ft): 41.700
               Rise(in): 39.60                 Control Elev(ft): 41.700

*** Weir 2 of 5 for Drop Structure Ex_DS-11 ***
                                                                                TABLE
                  Count: 1                      Bottom Clip(in): 0.000
                   Type: Vertical: Mavis           Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular          Orifice Disc Coef: 0.600

               Span(in): 25.20                       Invert(ft): 40.800
               Rise(in): 9.28                  Control Elev(ft): 40.800

*** Weir 3 of 5 for Drop Structure Ex_DS-11 ***
                                                                                TABLE
                  Count: 1                      Bottom Clip(in): 0.000
                   Type: Vertical: Mavis           Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular          Orifice Disc Coef: 0.600

               Span(in): 37.20                       Invert(ft): 40.550
               Rise(in): 12.30                 Control Elev(ft): 40.550

*** Weir 4 of 5 for Drop Structure Ex_DS-11 ***
                                                                                TABLE
                  Count: 1                      Bottom Clip(in): 0.000
                   Type: Vertical: Mavis           Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular          Orifice Disc Coef: 0.600

               Span(in): 25.20                       Invert(ft): 40.730
               Rise(in): 10.12                 Control Elev(ft): 40.730

*** Weir 5 of 5 for Drop Structure Ex_DS-11 ***
                                                                                TABLE
                  Count: 1                      Bottom Clip(in): 0.000
                   Type: Vertical: Mavis           Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular          Orifice Disc Coef: 0.600

               Span(in): 7.20                        Invert(ft): 36.850
               Rise(in): 44.40                 Control Elev(ft): 36.850


--------------------------------------------------------------------------------------------------
         Name: Ex_DS-4             From Node: Ex_Pond-B         Length(ft): 31.00
        Group: BASE                  To Node: Ex-N-5                 Count: 1
```

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Friction Equation:	Automatic
Span(in):	18.00	18.00	Solution Algorithm:	Most Restrictive
Rise(in):	18.00	18.00	Flow:	Both
Invert(ft):	38.590	38.550	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
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
			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 5 for Drop Structure Ex_DS-4 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	48.00	Invert(ft):	41.730
Rise(in):	36.00	Control Elev(ft):	41.730

*** Weir 2 of 5 for Drop Structure Ex_DS-4 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	15.60	Invert(ft):	40.900
Rise(in):	7.96	Control Elev(ft):	40.900

*** Weir 3 of 5 for Drop Structure Ex_DS-4 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	15.60	Invert(ft):	40.960
Rise(in):	7.24	Control Elev(ft):	40.960

*** Weir 4 of 5 for Drop Structure Ex_DS-4 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	26.40	Invert(ft):	40.790
Rise(in):	9.28	Control Elev(ft):	40.790

*** Weir 5 of 5 for Drop Structure Ex_DS-4 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	4.80	Invert(ft):	38.860
Rise(in):	22.80	Control Elev(ft):	38.860

Name:	Ex_DS-5	From Node:	Ex_Pond-D	Length(ft):	26.00
Group:	BASE	To Node:	Ex_N-7	Count:	1

	UPSTREAM	DOWNSTREAM		
Geometry:	Horz Ellipse	Horz Ellipse	Friction Equation:	Automatic
			Solution Algorithm:	Most Restrictive

Span(in):	30.00	30.00	Flow: Both
Rise(in):	19.00	19.00	Entrance Loss Coef: 0.000
Invert(ft):	44.220	43.240	Exit Loss Coef: 1.000
Manning's N:	0.012000	0.012000	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:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

*** Weir 1 of 2 for Drop Structure Ex_DS-5 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	42.00	Invert(ft):	44.700
Rise(in):	60.00	Control Elev(ft):	44.700

*** Weir 2 of 2 for Drop Structure Ex_DS-5 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	2.00	Invert(ft):	44.080
Rise(in):	2.00	Control Elev(ft):	44.080

Name:	Ex_DS-8A	From Node: Ex_Pond-C	Length(ft): 171.00
Group:	BASE	To Node: Ex_N-9	Count: 1

	UPSTREAM	DOWNSTREAM		
Geometry:	Horz Ellipse	Horz Ellipse	Friction Equation:	Automatic
Span(in):	68.00	68.00	Solution Algorithm:	Most Restrictive
Rise(in):	43.00	43.00	Flow:	Both
Invert(ft):	37.400	37.610	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
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
			Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

*** Weir 1 of 5 for Drop Structure Ex_DS-8A ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	96.00	Invert(ft):	41.720
Rise(in):	48.00	Control Elev(ft):	41.720

*** Weir 2 of 5 for Drop Structure Ex_DS-8A ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	22.80	Invert(ft):	40.550

Rise(in): 12.00 Control Elev(ft): 40.550

*** Weir 3 of 5 for Drop Structure Ex_DS-8A ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 60.00 Invert(ft): 40.450
Rise(in): 13.24 Control Elev(ft): 40.450

*** Weir 4 of 5 for Drop Structure Ex_DS-8A ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 4.80 Invert(ft): 37.400
Rise(in): 37.20 Control Elev(ft): 37.400

*** Weir 5 of 5 for Drop Structure Ex_DS-8A ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 24.00 Invert(ft): 40.600
Rise(in): 11.44 Control Elev(ft): 40.600

==========
==== Weirs ==========
==========

Name: Ex_W-1 From Node: Ex_Pond-G
Group: BASE To Node: Ex_N-21
Flow: Both Count: 1
Type: Vertical: Mavis Geometry: Irregular

XSec: wier_lake_g
Invert(ft): 38.020
Control Elevation(ft): 38.020
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

Name: Ex_W-10 From Node: Ex_N-11
Group: BASE To Node: Ex_Pond-G
Flow: Both Count: 1
Type: Vertical: Mavis Geometry: Trapezoidal

Bottom Width(ft): 34.65
Left Side Slope(h/v): 22.64
Right Side Slope(h/v): 14.16
Invert(ft): 40.200
Control Elevation(ft): 42.000
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

```
         Name: Ex_W-14             From Node: Ex_N-16
        Group: BASE                  To Node: Ex_Pond-F
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Trapezoidal

            Bottom Width(ft): 4.80
      Left Side Slope(h/v): 40.75
     Right Side Slope(h/v): 39.75
                Invert(ft): 41.800
     Control Elevation(ft): 42.000
    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



--------------------------------------------------------------------------------------------------
         Name: Ex_W-15             From Node: Ex_Pond-F
        Group: BASE                  To Node: E_Outfall_Ditch
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Trapezoidal

            Bottom Width(ft): 29.20
      Left Side Slope(h/v): 26.36
     Right Side Slope(h/v): 97.96
                Invert(ft): 40.400
     Control Elevation(ft): 42.000
    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



--------------------------------------------------------------------------------------------------
         Name: Ex_W-18             From Node: Ex_N-13
        Group: BASE                  To Node: Ex_Pond-G
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Trapezoidal

            Bottom Width(ft): 13.45
      Left Side Slope(h/v): 20.88
     Right Side Slope(h/v): 23.88
                Invert(ft): 41.200
     Control Elevation(ft): 42.000
    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



--------------------------------------------------------------------------------------------------
         Name: Ex_W-5              From Node: Ex_Pond-D
        Group: BASE                  To Node: Ex_N-7
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Trapezoidal

            Bottom Width(ft): 8.00
      Left Side Slope(h/v): 50.00
     Right Side Slope(h/v): 80.00
                Invert(ft): 45.200
     Control Elevation(ft): 45.500
    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

Name: Ex_W-6 From Node: Ex_N-7
Group: BASE To Node: Ex_Pond-C
Flow: Both Count: 1
Type: Vertical: Mavis Geometry: Trapezoidal

Bottom Width(ft): 7.00
Left Side Slope(h/v): 120.00
Right Side Slope(h/v): 45.00
Invert(ft): 44.100
Control Elevation(ft): 44.500
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

Name: Ex_W-7 From Node: Ex-N-5
Group: BASE To Node: Ex_Pond-C
Flow: Both Count: 1
Type: Vertical: Mavis Geometry: Trapezoidal

Bottom Width(ft): 31.20
Left Side Slope(h/v): 100.00
Right Side Slope(h/v): 35.00
Invert(ft): 41.400
Control Elevation(ft): 43.000
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

==========
==== Hydrology Simulations ==========
==========

Name: Ex_WM_100Y_24H
Filename: J:\E2160\E2160208.00\modeling\icpr\EXISTING\Ex_WM_100Y_24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 12.00

Time(hrs)	Print Inc(min)
36.000	5.00

Name: Ex_WM_25Y_24H
Filename: J:\E2160\E2160208.00\modeling\icpr\EXISTING\Ex_WM_25Y_24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 9.00

Time(hrs)	Print Inc(min)
36.000	5.00

==========
==== Routing Simulations ==========

==========

Name: Ex_WM_100Y_24H Hydrology Sim: Ex_WM_100Y_24H
Filename: J:\E2160\E2160208.00\modeling\icpr\EXISTING\Ex_WM_100Y_24H.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)
999.000	15.000

Group	Run
BASE	Yes

Name: Ex_WM_25Y_24H Hydrology Sim: Ex_WM_25Y_24H
Filename: J:\E2160\E2160208.00\modeling\icpr\EXISTING\Ex_WM_25Y_24H.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)
999.000	15.000

Group	Run
BASE	Yes

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
E_Outfall_Ditch	BASE	Ex_WM_25Y_24H	13.50	37.59	42.00	0.0035	5634	13.39	27.21	13.49	27.14
Ex-N-5	BASE	Ex_WM_25Y_24H	18.85	41.32	43.00	0.0016	8213	21.36	8.32	21.35	8.49
Ex_N-1	BASE	Ex_WM_25Y_24H	15.18	41.94	46.00	0.0061	85285	12.17	46.07	12.23	13.67
Ex_N-10	BASE	Ex_WM_25Y_24H	16.19	41.22	44.00	0.0145	167	12.08	22.51	14.76	27.93
Ex_N-11	BASE	Ex_WM_25Y_24H	16.19	41.15	42.00	0.0032	19413	14.76	27.93	12.09	14.06
Ex_N-12	BASE	Ex_WM_25Y_24H	12.44	43.35	46.00	-0.0114	12951	12.25	46.71	12.44	43.80
Ex_N-13	BASE	Ex_WM_25Y_24H	16.17	41.15	42.00	0.0025	16148	12.44	43.80	12.48	37.70
Ex_N-15	BASE	Ex_WM_25Y_24H	12.59	41.85	43.00	0.0028	9040	12.08	10.96	12.59	6.80
Ex_N-16	BASE	Ex_WM_25Y_24H	16.20	39.92	42.00	0.0011	11269	16.04	19.46	16.20	19.45
Ex_N-17	BASE	Ex_WM_25Y_24H	12.31	46.43	47.00	0.0050	13977	12.08	8.90	12.31	6.56
Ex_N-19	BASE	Ex_WM_25Y_24H	13.41	40.56	45.00	0.0008	1180	13.34	4.93	13.41	4.93
Ex_N-21	BASE	Ex_WM_25Y_24H	16.20	41.14	42.00	0.0014	3566	16.15	18.62	16.20	18.62
Ex_N-3	BASE	Ex_WM_25Y_24H	15.60	41.79	45.00	0.0009	8810	12.96	11.82	13.96	7.38
Ex_N-7	BASE	Ex_WM_25Y_24H	15.68	41.34	44.00	0.0011	1361	13.25	5.47	13.52	5.38
Ex_N-9	BASE	Ex_WM_25Y_24H	16.19	41.19	42.61	0.0158	127	21.18	13.08	21.18	12.84
Ex_Outfall	BASE	Ex_WM_25Y_24H	0.00	36.21	36.21	0.0000	651	13.49	27.14	0.00	0.00
Ex_Pond-A	BASE	Ex_WM_25Y_24H	15.25	41.93	45.00	0.0016	35883	12.25	23.91	12.96	11.82
Ex_Pond-B	BASE	Ex_WM_25Y_24H	20.68	41.39	43.00	0.0007	148234	12.25	35.74	24.00	3.27
Ex_Pond-C	BASE	Ex_WM_25Y_24H	18.82	41.31	43.00	0.0016	50025	12.42	18.75	21.18	13.08
Ex_Pond-D	BASE	Ex_WM_25Y_24H	13.25	45.21	45.50	0.0009	77007	12.08	21.03	13.25	5.47
Ex_Pond-E	BASE	Ex_WM_25Y_24H	13.37	44.06	45.00	0.0009	65044	12.17	20.44	13.34	4.93
Ex_Pond-F	BASE	Ex_WM_25Y_24H	13.41	38.39	42.00	-0.0030	28219	12.89	27.99	13.40	26.68
Ex_Pond-G	BASE	Ex_WM_25Y_24H	16.20	41.15	42.00	0.0014	170697	12.22	76.16	16.15	18.62

PROPOSED CONDITION

PROPOSED DRAINAGE BASIN DATA

PROJECT NAME: Pelican Golf Club

FPID: 0

COUNTY: Pinellas

Date: December 2, 2016

LAND COVER	CN
PAVEMENT	98
GRASS	39
WATER	100

CN Values from FDOT Hydrology Handbook (Table T-7)

BASIN	AREA (AC)			TOTAL AREA (AC)	WEIGHTED CN (Area to Pond)
	PAVED	WATER	GRASS		
Pr_B_POND-D	2.70	0.86	3.84	*7.40*	68

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Cardno
Shaping the Future

TREATMENT VOLUME CALCULATION

PROJECT NAME: Pelican Golf Club

FPID: 0

COUNTY: Pinellas

Date: December 2, 2016

BASIN	Treatment Facility	PAVEMENT AREA (AC)		TOTAL BASIN AREA (AC)	TREATMENT VOLUME (AC-FT)	
		EXISTING	PROPOSED		BASED ON 1" RUNOFF FROM PAVED AREA	REQUIRED IN AC-FT
Pr_B_POND-D	Pond D	2.20	2.70	7.40	0.23	0.23

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POND STAGE VOLUME

PROJECT NAME: Pelican Golf Club

FPID: 0

COUNTY: Pinellas

Date: December 2, 2016

POND	AT SHW / POND BOTTOM / INITIAL STAGE		ABOVE THE WEIR		WEIR ELEVATION (ft)	AREA (AC)	ACTUAL QUALITY VOLUME (AC-FT)
	ELEVATION	AREA (AC)	ELEVATION	AREA (AC)			
Pond D	43.50	0.85	45.00	0.98	43.78	0.87	0.24

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ORIFICE CALCULATIONS

PROJECT NAME: Pelican Golf Club

FPID: 0

COUNTY: Pinellas

Date: December 2, 2016

Time (hr)	60
Cd	0.6
2g	64.4

POND	ELEVATION (ft)		POND SURFACE AREA (AC)			ORIFICE	
	WEIR	ORIFICE	AT WEIR	AT ORFICE	AVERAGE	AREA (SF)	DIAMETER (IN)
Pond D	43.78	43.50	0.87	0.85	0.86	0.0079	1.20

==========
==== Basins ====
==========

Name: PR_B_BeFor Node: PR_N_BeFor Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 27.00
Area(ac): 26.100 Time Shift(hrs): 0.00
Curve Number: 60.40 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_GVDN Node: Pr_N-GVDN Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 3.140 Time Shift(hrs): 0.00
Curve Number: 60.70 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_GVDS Node: PR_N_GVDS Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 22.00
Area(ac): 22.690 Time Shift(hrs): 0.00
Curve Number: 61.30 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_HiRd Node: Pr_N_HiRd Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 16.00
Area(ac): 4.400 Time Shift(hrs): 0.00
Curve Number: 62.70 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_MAIN Node: PR_N_MAIN Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 8.310 Time Shift(hrs): 0.00
Curve Number: 46.50 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_Pond-A Node: Pond-A Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 18.00

Area(ac): 10.940 Time Shift(hrs): 0.00
Curve Number: 43.50 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_Pond-B Node: Pond-B Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 13.00
Area(ac): 8.690 Time Shift(hrs): 0.00
Curve Number: 48.80 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_Pond-C Node: Pond-C Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 39.00
Area(ac): 57.360 Time Shift(hrs): 0.00
Curve Number: 40.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_Pond-D Node: Pond-D Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 13.00
Area(ac): 7.400 Time Shift(hrs): 0.00
Curve Number: 68.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_Pond-E Node: Pond-E Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 6.380 Time Shift(hrs): 0.00
Curve Number: 54.40 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_Pond-F Node: Pond-F Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 22.00
Area(ac): 22.740 Time Shift(hrs): 0.00
Curve Number: 42.10 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_Pond-G Node: Pond-G Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0

Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 25.00
Area(ac): 32.220 Time Shift(hrs): 0.00
Curve Number: 43.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: PR_B_PoRd Node: PR_N_PoRd Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 15.00
Area(ac): 7.950 Time Shift(hrs): 0.00
Curve Number: 62.30 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ==========
==========

Name: DN_A Base Flow(cfs): 0.000 Init Stage(ft): 39.000
Group: BASE Warn Stage(ft): 44.000
Type: Stage/Area

Stage(ft)	Area(ac)
39.000	0.0010
44.000	0.0010

Name: DN_A2 Base Flow(cfs): 0.000 Init Stage(ft): 35.000
Group: BASE Warn Stage(ft): 44.000
Type: Stage/Area

Stage(ft)	Area(ac)
35.000	0.0010
44.000	0.0010

Name: DN_BeFor Base Flow(cfs): 0.000 Init Stage(ft): 35.000
Group: BASE Warn Stage(ft): 45.000
Type: Stage/Area

Stage(ft)	Area(ac)
35.000	0.0010
45.000	0.0010

Name: DN_C Base Flow(cfs): 0.000 Init Stage(ft): 35.000
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Stage(ft)	Area(ac)
30.000	0.0010
45.000	0.0010

Name: DN_D Base Flow(cfs): 0.000 Init Stage(ft): 35.000
Group: BASE Warn Stage(ft): 46.000
Type: Stage/Area

Stage(ft)	Area(ac)
30.000	0.0010
46.000	0.0010

Name: DN_E Base Flow(cfs): 0.000 Init Stage(ft): 35.000
Group: BASE Warn Stage(ft): 44.000
Type: Stage/Area

Stage(ft)	Area(ac)
35.000	0.0010
45.000	0.0010

Name: DN_G Base Flow(cfs): 0.000 Init Stage(ft): 35.000
Group: BASE Warn Stage(ft): 42.000
Type: Stage/Area

Stage(ft)	Area(ac)
30.000	0.0010
45.000	0.0010

Name: Pond-A Base Flow(cfs): 0.000 Init Stage(ft): 39.000
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Stage(ft)	Area(ac)
27.000	0.2100
40.000	1.0400
41.000	1.1600
42.000	1.3000
43.000	1.6200

Name: Pond-B Base Flow(cfs): 0.000 Init Stage(ft): 38.000
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Stage(ft)	Area(ac)
28.000	0.7500
40.000	1.9200
41.000	2.1200
42.000	2.2900

Name: Pond-C Base Flow(cfs): 0.000 Init Stage(ft): 38.000
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Stage(ft)	Area(ac)
27.000	0.5200
40.000	1.5400
41.000	1.6600
42.000	1.9100

Name: Pond-D Base Flow(cfs): 0.000 Init Stage(ft): 43.850
Group: BASE Warn Stage(ft): 47.000
Type: Stage/Area

Stage(ft)	Area(ac)
34.000	0.2300
45.000	0.9800
46.000	1.0900

Name: Pond-E Base Flow(cfs): 0.000 Init Stage(ft): 42.900
Group: BASE Warn Stage(ft): 46.000
Type: Stage/Area

Stage(ft)	Area(ac)
35.000	0.8700
45.000	1.9400
46.000	2.1000

Name: Pond-F Base Flow(cfs): 0.000 Init Stage(ft): 37.620
Group: BASE Warn Stage(ft): 42.000
Type: Stage/Area

Stage(ft)	Area(ac)
29.000	0.5600
40.000	1.4400

Name: Pond-G Base Flow(cfs): 0.000 Init Stage(ft): 38.000
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Stage(ft)	Area(ac)
30.000	1.5800
37.000	2.3800
37.001	2.4500
38.000	2.6400
39.000	2.8000
40.000	2.9600
41.000	3.4200
42.000	4.0400

Name: Pr_N-GVDN Base Flow(cfs): 0.000 Init Stage(ft): 44.870
Group: BASE Warn Stage(ft): 47.000
Type: Stage/Area

Stage(ft)	Area(ac)
44.800	0.0010
46.000	0.0010
47.000	0.7500

Name: PR_N_BeFor Base Flow(cfs): 0.000 Init Stage(ft): 39.430
Group: BASE Warn Stage(ft): 46.000
Type: Stage/Area

Stage(ft)	Area(ac)

39.430	0.0010
42.900	0.0010
43.000	0.1200
44.000	0.6200
45.000	1.3600
46.000	2.7100

Name: PR_N_GVDS Base Flow(cfs): 0.000 Init Stage(ft): 38.550
Group: BASE Warn Stage(ft): 46.000
Type: Stage/Area

Stage(ft)	Area(ac)
38.550	0.0010
45.000	3.7200
46.000	12.6700

Name: Pr_N_HiRd Base Flow(cfs): 0.000 Init Stage(ft): 39.490
Group: BASE Warn Stage(ft): 43.000
Type: Stage/Area

Stage(ft)	Area(ac)
39.490	0.0010
42.000	0.2200
43.000	0.6500

Name: PR_N_MAIN Base Flow(cfs): 0.000 Init Stage(ft): 35.080
Group: BASE Warn Stage(ft): 41.000
Type: Stage/Area

Stage(ft)	Area(ac)
35.000	0.0010
41.000	0.0010

Name: PR_N_PoRd Base Flow(cfs): 0.000 Init Stage(ft): 38.000
Group: BASE Warn Stage(ft): 44.000
Type: Stage/Area

Stage(ft)	Area(ac)
37.580	0.0010
42.620	0.0010
43.000	0.2100
44.000	1.0700

Name: Pr_Outfall Base Flow(cfs): 0.000 Init Stage(ft): 36.330
Group: BASE Warn Stage(ft): 36.330
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	36.330
999.00	36.330

==== Pipes ====

Name:	Outfall_Pipe	From Node: PR_N_MAIN	Length(ft): 870.00
Group:	BASE	To Node: Pr_Outfall	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	36.00	36.00	Entrance Loss Coef: 0.00
Rise(in):	36.00	36.00	Exit Loss Coef: 1.00
Invert(ft):	35.080	33.330	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

Name:	R-Pond-A	From Node: Pond-A	Length(ft): 275.00
Group:	BASE	To Node: DN_A	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	30.00	30.00	Entrance Loss Coef: 0.00
Rise(in):	30.00	30.00	Exit Loss Coef: 1.00
Invert(ft):	36.000	39.000	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

Name:	R-Pond-A_2	From Node: DN_A	Length(ft): 787.00
Group:	BASE	To Node: DN_A2	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	36.00	36.00	Entrance Loss Coef: 0.00
Rise(in):	36.00	36.00	Exit Loss Coef: 1.00
Invert(ft):	39.000	35.000	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

Name:	R-Pond-ABC	From Node: DN_A2	Length(ft): 105.00
Group:	BASE	To Node: Pond-C	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	42.00	42.00	Entrance Loss Coef: 0.00
Rise(in):	42.00	42.00	Exit Loss Coef: 1.00

Invert(ft):	35.000	34.000	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	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	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

Name:	R_BeFor	From Node:	PR_N_BeFor	Length(ft): 206.00
Group:	BASE	To Node:	DN_BeFor	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular		Flow: Both
Span(in):	36.00	36.00	Entrance Loss Coef:	0.00
Rise(in):	36.00	36.00	Exit Loss Coef:	1.00
Invert(ft):	39.430	38.490	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	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	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

Name:	R_BeFor2	From Node:	DN_BeFor	Length(ft): 680.00
Group:	BASE	To Node:	DN_G	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Horz Ellipse	Horz Ellipse		Flow: Both
Span(in):	53.00	53.00	Entrance Loss Coef:	0.00
Rise(in):	34.00	34.00	Exit Loss Coef:	1.00
Invert(ft):	37.000	35.000	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	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	Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Name:	R_CDG	From Node:	DN_G	Length(ft): 166.00
Group:	BASE	To Node:	Pond-G	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Horz Ellipse	Horz Ellipse		Flow: Both
Span(in):	68.00	68.00	Entrance Loss Coef:	0.00
Rise(in):	43.00	43.00	Exit Loss Coef:	1.00
Invert(ft):	35.000	34.000	Bend Loss Coef:	0.00
Manning's N:	0.012000	0.012000	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	Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Name:	R_GVDN	From Node:	Pr_N-GVDN	Length(ft): 226.00
Group:	BASE	To Node:	Pond-E	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular		Flow: Both
Span(in):	18.00	18.00		Entrance Loss Coef: 0.00
Rise(in):	18.00	18.00		Exit Loss Coef: 1.00
Invert(ft):	44.870	40.000		Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000		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		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

Name:	R_GVDS	From Node:	PR_N_GVDS	Length(ft): 218.00
Group:	BASE	To Node:	Pond-A	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular		Flow: Both
Span(in):	36.00	36.00		Entrance Loss Coef: 0.00
Rise(in):	36.00	36.00		Exit Loss Coef: 1.00
Invert(ft):	38.550	35.000		Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000		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		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

Name:	R_HiRd	From Node:	Pr_N_HiRd	Length(ft): 181.00
Group:	BASE	To Node:	Pond-G	Count: 1
				Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular		Flow: Both
Span(in):	15.00	15.00		Entrance Loss Coef: 0.00
Rise(in):	15.00	15.00		Exit Loss Coef: 1.00
Invert(ft):	39.490	38.410		Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000		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		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

Name:	R_Pond-B	From Node: Pond-B	Length(ft): 692.00
Group:	BASE	To Node: DN_A2	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	36.00	36.00	Entrance Loss Coef: 0.00
Rise(in):	36.00	36.00	Exit Loss Coef: 1.00
Invert(ft):	36.000	35.000	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

Name:	R_Pond-C	From Node: Pond-C	Length(ft): 132.00
Group:	BASE	To Node: DN_C	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	42.00	42.00	Entrance Loss Coef: 0.00
Rise(in):	42.00	42.00	Exit Loss Coef: 1.00
Invert(ft):	36.000	35.700	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

Name:	R_Pond-D	From Node: Pond-D	Length(ft): 33.00
Group:	BASE	To Node: DN_D	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both
Span(in):	24.00	24.00	Entrance Loss Coef: 0.00
Rise(in):	24.00	24.00	Exit Loss Coef: 1.00
Invert(ft):	41.000	40.500	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

Name:	R_Pond-E	From Node: Pond-E	Length(ft): 179.00
Group:	BASE	To Node: DN_E	Count: 1
			Friction Equation: Automatic
	UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry:	Circular	Circular	Flow: Both

Span(in):	24.00	24.00	Entrance Loss Coef: 0.00
Rise(in):	24.00	24.00	Exit Loss Coef: 1.00
Invert(ft):	39.500	39.000	Bend Loss Coef: 0.00
Manning's N:	0.012000	0.012000	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	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

Name: R_PoRd From Node: PR_N_PoRd Length(ft): 430.00
Group: BASE To Node: DN_G Count: 1
Friction Equation: Automatic

	UPSTREAM	DOWNSTREAM	
Geometry:	Horz Ellipse	Horz Ellipse	Solution Algorithm: Most Restrictive
Span(in):	68.00	68.00	Flow: Both
Rise(in):	43.00	43.00	Entrance Loss Coef: 0.00
Invert(ft):	37.580	36.000	Exit Loss Coef: 1.00
Manning's N:	0.012000	0.012000	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:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

==========
==== Drop Structures ==========
==========

Name: CS_Pond-C From Node: DN_C Length(ft): 203.00
Group: BASE To Node: PR_N_PoRd Count: 1

	UPSTREAM	DOWNSTREAM	
Geometry:	Horz Ellipse	Horz Ellipse	Friction Equation: Automatic
Span(in):	68.00	68.00	Solution Algorithm: Most Restrictive
Rise(in):	43.00	43.00	Flow: Both
Invert(ft):	37.400	37.800	Entrance Loss Coef: 0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef: 1.000
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
			Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Square edge with headwall

*** Weir 1 of 1 for Drop Structure CS_Pond-C ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	36.00	Invert(ft):	38.000
Rise(in):	36.00	Control Elev(ft):	38.000

```
        Name: CS_Pond-D          From Node: DN_D              Length(ft): 566.00
       Group: BASE                 To Node: DN_C                   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): 39.000        37.400                       Exit Loss Coef: 1.000
 Manning's N: 0.012000       0.012000                   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 CS_Pond-D ***
                                                                                TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Vertical: Mavis           Top Clip(in): 0.000
                  Flow: Both                   Weir Disc Coef: 3.200
              Geometry: Circular              Orifice Disc Coef: 0.600

              Span(in): 1.20                        Invert(ft): 43.500
              Rise(in): 1.20                  Control Elev(ft): 43.500

*** Weir 2 of 2 for Drop Structure CS_Pond-D ***
                                                                                TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Vertical: Mavis           Top Clip(in): 0.000
                  Flow: Both                   Weir Disc Coef: 3.200
              Geometry: Rectangular           Orifice Disc Coef: 0.600

              Span(in): 18.00                       Invert(ft): 43.780
              Rise(in): 18.00                 Control Elev(ft): 43.780


-------------------------------------------------------------------------------------------------------
        Name: CS_Pond-E          From Node: DN_E              Length(ft): 1050.00
       Group: BASE                 To Node: Pond-F                 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): 39.960        34.000                       Exit Loss Coef: 1.000
 Manning's N: 0.012000       0.012000                   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 CS_Pond-E ***
                                                                                TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Vertical: Mavis           Top Clip(in): 0.000
                  Flow: Both                   Weir Disc Coef: 3.200
              Geometry: Rectangular           Orifice Disc Coef: 0.600

              Span(in): 6.00                        Invert(ft): 42.900
              Rise(in): 12.00                 Control Elev(ft): 42.900


-------------------------------------------------------------------------------------------------------
        Name: CS_Pond-F          From Node: Pond-F            Length(ft): 203.00
       Group: BASE                 To Node: PR_N_MAIN              Count: 1
```

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Friction Equation:	Automatic
Span(in):	48.00	48.00	Solution Algorithm:	Most Restrictive
Rise(in):	48.00	48.00	Flow:	Both
Invert(ft):	33.500	33.000	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
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
			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 CS_Pond-F ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	18.00	Invert(ft):	37.620
Rise(in):	9999.00	Control Elev(ft):	37.620

*** Weir 2 of 2 for Drop Structure CS_Pond-F ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	72.00	Invert(ft):	40.500
Rise(in):	9999.00	Control Elev(ft):	40.500

Name:	CS_Pond-G	From Node: Pond-G	Length(ft): 23.00
Group:	BASE	To Node: Pond-F	Count: 1

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Friction Equation:	Automatic
Span(in):	60.00	60.00	Solution Algorithm:	Most Restrictive
Rise(in):	38.00	38.00	Flow:	Both
Invert(ft):	34.700	34.400	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
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
			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 CS_Pond-G ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	180.00	Invert(ft):	38.000
Rise(in):	36.00	Control Elev(ft):	38.000

==========
==== Hydrology Simulations ==========
==========

Name: Pr_WM_100Y_24H

Filename: J:\E2160\E2160208.00\modeling\icpr\PROPOSED\Pr_WM_100Y_24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 12.00

Time(hrs)	Print Inc(min)
36.000	5.00

Name: Pr_WM_25Y_24H
Filename: J:\E2160\E2160208.00\modeling\icpr\PROPOSED\Pr_WM_25Y_24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 9.00

Time(hrs)	Print Inc(min)
36.000	5.00

==========

Routing Simulations

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Name: Pr_WM_100Y_24H Hydrology Sim: Pr_WM_100Y_24H
Filename: J:\E2160\E2160208.00\modeling\icpr\PROPOSED\Pr_WM_100Y_24H.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)
999.000	15.000

Group	Run
BASE	Yes

Name: Pr_WM_25Y_24 Hydrology Sim: Pr_WM_25Y_24H
Filename: J:\E2160\E2160208.00\modeling\icpr\PROPOSED\Pr_WM_25Y_24.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)
999.000	15.000

Group	Run
BASE	Yes

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
DN_A	BASE	Pr_WM_25Y_24	17.32	41.06	44.00	0.0018	1149	13.61	12.55	13.63	12.39
DN_A2	BASE	Pr_WM_25Y_24	17.74	41.01	44.00	0.0174	492	0.02	18.64	21.28	6.65
DN_BeFor	BASE	Pr_WM_25Y_24	17.71	40.77	45.00	0.0049	463	12.36	45.69	12.39	45.62
DN_C	BASE	Pr_WM_25Y_24	17.59	40.97	43.00	0.0301	125	0.01	20.71	17.40	13.66
DN_D	BASE	Pr_WM_25Y_24	12.90	45.07	46.00	0.0802	115	0.00	19.45	12.90	7.07
DN_E	BASE	Pr_WM_25Y_24	16.15	43.87	44.00	0.0825	122	0.02	21.09	16.15	1.53
DN_G	BASE	Pr_WM_25Y_24	17.83	40.76	42.00	0.0192	462	12.39	56.33	12.17	54.24
Pond-A	BASE	Pr_WM_25Y_24	14.01	41.27	43.00	0.0023	52308	12.56	33.88	13.61	12.55
Pond-B	BASE	Pr_WM_25Y_24	17.79	41.01	43.00	0.0010	92483	12.08	13.61	0.02	18.64
Pond-C	BASE	Pr_WM_25Y_24	17.71	41.00	43.00	0.0020	72339	12.50	18.08	0.01	20.71
Pond-D	BASE	Pr_WM_25Y_24	12.90	45.18	47.00	0.0014	43533	12.08	23.71	0.00	19.45
Pond-E	BASE	Pr_WM_25Y_24	16.15	43.88	46.00	0.0009	79428	12.08	20.78	0.02	21.09
Pond-F	BASE	Pr_WM_25Y_24	17.87	40.62	42.00	0.0028	64884	12.34	47.43	17.92	25.50
Pond-G	BASE	Pr_WM_25Y_24	17.84	40.72	43.00	0.0017	143422	12.25	84.09	12.35	29.36
Pr_N-GVDN	BASE	Pr_WM_25Y_24	12.32	46.43	47.00	-0.0045	14050	12.08	9.00	12.31	6.63
PR_N_BeFor	BASE	Pr_WM_25Y_24	12.36	43.10	46.00	-0.0050	7392	12.25	46.70	12.36	45.69
PR_N_GVDS	BASE	Pr_WM_25Y_24	13.79	41.34	46.00	0.0019	70278	12.17	46.37	12.57	25.75
Pr_N_HiRd	BASE	Pr_WM_25Y_24	12.59	41.85	43.00	0.0018	9040	12.08	10.96	12.78	6.93
PR_N_MAIN	BASE	Pr_WM_25Y_24	17.59	37.62	41.00	0.0031	833	17.58	26.34	17.59	26.34
PR_N_PoRd	BASE	Pr_WM_25Y_24	17.71	40.78	44.00	0.0047	741	17.40	14.91	17.71	16.43
Pr_Outfall	BASE	Pr_WM_25Y_24	0.00	36.33	36.33	0.0000	324	17.59	26.34	0.00	0.00

SWFWMD
Pre Application Notes

THIS FORM IS INTENDED TO FACILITATE AND GUIDE THE DIALOGUE DURING A PRE-APPLICATION MEETING BY PROVIDING A PARTIAL "PROMPT LIST" OF DISCUSSION SUBJECTS. IT IS NOT A LIST OF REQUIREMENTS FOR SUBMITTAL BY THE APPLICANT.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
RESOURCE REGULATION DIVISION
PRE-APPLICATION MEETING NOTES

FILE NUMBER:

PA 403673

Date:	8/30/2016		
Time:	10:00		
Project Name:	Pelican Golf Club		
District Engineer:	Rob McDaniel		
District ES:	Joe Andress		
Attendees:	Hamid Faraji hamid.faraji@cardno.com; Tim Neldner timothy.neldner@cardno.com (Cardno)		
County:	Pinellas	**Sec/Twp/Rge:**	28/29/15
Total Land Acreage:	136 acres	**Project Acreage:**	Approx 136 acres

Prior On-Site/Off-Site Permit Activity:

- 44001562.002 for Belleview Biltmore Golf Course rehabilitation. This permit expired in 2006 and was not transferred to operations.

Project Overview:

- Reconfiguring the golf course, with reshaped/resized wet detention stormwater ponds. Some additional impervious area will be constructed as part of the new clubhouse and parking area.

Environmental Discussion: (Wetlands On-Site, Wetlands on Adjacent Properties, Delineation, T&E species, Easements, Drawdown Issues, Setbacks, Justification, Elimination/Reduction, Permanent/Temporary Impacts, Secondary and Cumulative Impacts, Mitigation Options, SHWL, Upland Habitats, Site Visit, etc.)

- Provide the limits of jurisdictional wetlands which should be top-of-bank of the upland cut ponds and drainage ditches
- Wetland mitigation should not be required as the proposed impacts are to existing upland cut drainage ditches and re-configuration of upland-cut predominantly open water ponds.

Site Information Discussion: (SHW Levels, Floodplain, Tailwater Conditions, Adjacent Off-Site Contributing Sources, Receiving Waterbody, etc.)

- WBIDs need to be independently verified by the consultant - WBID 1614 – Rattlesnake Creek
- Listed as impaired for dissolved oxygen (nutrients) and fecal coliform.
- Any wells on site should be identified and their future use/abandonment must be designated. Water use permits will need to be modified.

Water Quantity Discussions: (Basin Description, Storm Event, Pre/Post Volume, Pre/Post Discharge, etc.)

- Demonstrate that discharges from proposed project area will not cause an adverse impact for a 25-year, 24-hour storm event.
- Demonstrate that site will not impede the conveyance of contributing off-site flows.
- Demonstrate that the project will not increase flood stages up- or down-stream of the project area(s).
- Please be aware that if there is credible historical evidence of past flooding or the physical capacity of the downstream conveyance or receiving waters indicates that the conditions for issuance will not be met without consideration of storm events of different frequency or duration, applicants shall be required to provide additional analyses using storm events of different duration or frequency than the 25-year 24-hour storm event, or to adjust the volume, rate or timing of discharges. [Section 3.0 Applicant's Handbook Volume II]

Water Quality Discussions: (Type of Treatment, Technical Characteristics, Non-presumptive Alternatives, etc.)

- Provide water quality treatment for entire project area and all contributing off-site flows.
- The project discharges to an impaired water body, must provide a net environmental improvement.
- Regarding the new clubhouse and parking area: Applicant must demonstrate a net improvement for the parameters of concern by performing a pre/post pollutant loading analysis based on existing land use and the proposed land use.
- Will acknowledge compensatory treatment to offset pollutant loads associated with portions of the project area that cannot be physically treated.

Sovereign Lands Discussion: (Determining Location, Correct Form of Authorization, Content of Application, Assessment of Fees, Coordination with FDEP)

- N/A

Operation and Maintenance/Legal Information: (Ownership or Perpetual Control, O&M Entity, O&M Instructions, Homeowner Association Documents, Coastal Zone requirements, etc.)

- The permit must be issued to the property owner(s).
- Provide proof of ownership in the form of a deed or contract for sale.
- Provide appropriate O&M instructions.
- Provide detailed construction surface water management plan.

Application Type and Fee Required:

- SWERP Individual, new permit (not a modification) – Sections A, C, and E of the ERP Application.
- Between 100 and 640 acres of project area or between 10 and 50 acres of wetland or surface water impacts - $3,105.75
- Consult the fee schedule for different thresholds.

Other: (Future Pre-Application Meetings, Fast Track, Submittal Date, Construction Start Date, Required District Permits – WUP, WOD, Well Construction, etc.)

- In accordance with Section 5.5.2.3 of the Applicant's Handbook Volume I (A.H.V.I), upon receipt by the District of an application for an individual permit to construct or alter a dam, impoundment, reservoir, or appurtenant work, a notice of receipt of the application must be published in a newspaper having general circulation (meeting the requirements of Section 50.031, F.S.) within the affected area in accordance with Sections 373.116, F.S., 373.118(3), 373.146, and 373.413(3), F.S. Please provide documentation that such noticing has been accomplished. Note that the published notices of receipt for an ERP can be in accordance with the language provided in Rule 40D-1.603(10), F.A.C., and receipt of an affidavit establishing proof of this publication will be considered a completeness item of this ERP Application.

  40D-1.603(12) – "Applicants required to publish a notice of receipt of application must provide to the District a publisher's affidavit establishing proof of publication pursuant to Sections 50.041and 50.051, F.S., before the application will be considered complete and the applicable timeframe for taking agency action on the application will commence."

- Provide a copy of the legal description (of all applicable parcels within the project area) in one of the following forms:
  a. Deed with complete Legal Description attachment.
  b. Plat.
  c. Boundary survey of the property(ies) with a sketch.

- The plans and drainage report submitted electronically must include the appropriate information required under Rule 61G15-23.005(3)(d), F.A.C. The following text is acceptable to the Florida Board of Professional Engineers (FBPE) to meet this requirement and must appear where the signature would normally appear:

  [Licensee] State of Florida, Professional Engineer, License No. X
  This item has been electronically signed and sealed by [Licensee, PE] on [DATE] using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies

- Federal Supplemental Application Form - to be used with the Joint Application form under SWERP 2 (SWERP 2 has not been approved yet). This form will not be incorporated into rule but will be added to the electronic application. The Corps has requested that we begin using this form now to help them gather the information they need to process their permits. This should be provided during any pre-application meeting that proposed work in, on or over wetlands or surface waters.

Hamid Faraji

From: Rob McDaniel <Rob.McDaniel@swfwmd.state.fl.us>
Sent: Wednesday, August 31, 2016 8:11 AM
To: Hamid Faraji
Cc: Tim Neldner
Subject: RE: Pre-application meeting Pelican Golf Club

Hamid,
Treatment will be required for the clubhouse area that is being modified, not the entire 136 acres. Please be sure to maintain any treatment function that is occurring for the clubhouse and parking in the existing conditions and account for any additional areas that will be modified. We are not sure that presumptive criteria will be sufficient; this will need to be demonstrated through the use of pollutant loading calculations.
Thanks,
Rob

From: Hamid Faraji [mailto:Hamid.Faraji@cardno.com]
Sent: Tuesday, August 30, 2016 12:52 PM
To: Rob McDaniel <Rob.McDaniel@swfwmd.state.fl.us>
Cc: Tim Neldner <Timothy.Neldner@cardno.com>
Subject: RE: Pre-application meeting Pelican Golf Club

Hi Rob,
Regarding the first item under the Water Quality Discussion:
It is my understanding to provide treatment (presumptive criteria) for the increased impervious area at club house only, not for the entire 136 ac. Please confirm.

Thanks.

Hamid Faraji PE
TRANSPORTATION DRAINAGE MANAGER
ENGINEERING & ENVIRONMENTAL SERVICES DIVISION
CARDNO

Office (+1) 727-531-3505 Direct (+1) 727-431-1596 Mobile (+1) 727-423-6296
Address 380 Park Place Blvd, Suite 300, Clearwater, FL 33759
Email hamid.faraji@cardno.com Web www.cardno.com

From: Rob McDaniel [mailto:Rob.McDaniel@swfwmd.state.fl.us]
Sent: Tuesday, August 30, 2016 11:39 AM
To: Hamid Faraji <Hamid.Faraji@cardno.com>; Tim Neldner <Timothy.Neldner@cardno.com>
Subject: Pre-application meeting Pelican Golf Club

Rob McDaniel, P.E.
Sr. Professional Engineer
Environmental Resource Permit Bureau
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813-985-7481 or 800-836-0797 ext. 2039
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