

3.08.00 Environmental Data

1) Purpose

As per requirements in LDC Sections 3.08.00 and questions in the CU Checklist

2) Preparation Of Environmental Data

Qualifications of Environmental Consultant

Environmental Data. The following shall be submitted where applicable to evaluate projects.

Collier Environmental Consultants Inc.
3880 Estey Ave
Naples, Florida 34104

Marco A. Espinar- Biologist

A) Wetlands

i) Identify on Current Aerial / the location of all Collier County / SFWMD Jurisdictional wetlands according to the Florida Land Use Cover and Forms Classification System FLUCFCS

A FLUCFCS map and vegetation inventory has been included. The dominant forest type on this project site consists of (411) Slash Pine Upland and (624) Slash pine, cypress, cabbage palm. The site primarily has a canopy of Slash pine, ear leaf acacia, and Melaleuca. The midstory is scattered with some cypress, cabbage palms and myrsine. The parcel is approximately half upland and half wetlands. Approximately, half of this parcel may be Jurisdictional wetlands.

B) Listed Species and Bald Eagle Nests and Nest Protection Zones

i) Provide Survey

Wildlife Listed Species Study
(LDC10.02.3.A.2.m)

A brief examination of the parcel found no listed vertebrates on site. The parcel is located in the urban area and bordered by Rattlesnake Hammock road to the north. The site does provided some functional habitat for wildlife. A listed species study was conducted and attached.

ii) Provide Listed Plants identified in LDC Section 3.04.03

See Attached Vegetation List / FLUCCS Code Map

iii) Wildlife Management Plans in accordance with LDC Section 3.04.00

See Attached Listed Species Study, Black bear and fox squirrel wildlife management plans may be required.

C) Native Vegetation Preservation

i) For Sites or Portions of Sites Cleared of Native Vegetation or in Agricultural Use:

Not Applicable

ii) Identify on a current aerial the acreage, location and community types of all upland and wetland habitats on the project site....

Location Maps / Aerials

(LDC10.02.3.A.2.m)

Aerials and location maps have been provided.

The entire parcel consists of approximately 11.48 acres. However, a small portion of this parcel was used as access to the neighboring bus facility. The site now consists of approximately 10.66 acres. This project is for an expansion of the current School Bus Facility. The neighboring parcel to the west is an existing School Bus Facility. County growth requires an expansion of this current facility.

The parcel is on Rattlesnake Hammock Road in Section 22, Township 50, Range 26; in Collier County, Florida. The dominant forest type on this project site consists of (411) Pine Upland and (624) Slash pine, cypress, cabbage palm. The site primarily has a canopy of Slash pin, ear leaf acacia, and Melaleuca. The midstory is scattered with some cypress, cabbage palms and myrsine. The parcel is approximately half upland and half wetlands.

See Attached Location Maps, Vegetation Maps / FLUCCS Maps

Native Vegetation Calculation

(LDC3.05.07.A.)

3.05.07 Preservation Standards

The entire site consists of approximately 11.48 acres. The site had a small portion already developed as part of the existing terminals access road. The balance is approximately 10.66 acres. The parcel is required to preserve 15 % and /or approximately 1.60 acres 1.72 acres has been proposed. This preserve has been placed towards the south end

adding to adjacent preserves.

Clearly identify the location of all preserves:

The preserve area has been identified on the CU plan.

Soil Ground Water Sampling

Natural Site

LOCATION



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LOCATION

- Selected Custom Parcels
- Streets MapWise
- County Boundaries
- Parcel Outlines



0 680 1360 2040 ft



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0 170 340 510 ft



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**FLUCCS MAP
VEGETATION INVENTORY**

FLUCCS CODE AND VEGETATION INVENTORY

FLUCCS CODE	(Description)		
Common Name	Scientific Name	Indicator	Status

411	Slash pine	Upland	
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This habitat would be considered upland. This area does have similar species as the wetland area however; the difference is the density of Slash pine and the presence of palmetto as ground cover. Both will have similar species such as cabbage palms, sawgrass, ear leaf acacia and Melaleuca.

Slash Pine	<i>Pinus elliotti</i>	FACW	Cp,D
Cypress	<i>Taxodium spp.</i>	OBL	Cp,M,C
Cabbage Palm	<i>Sabal palmetto</i>	FAC	M,C
Laurel oak	<i>Quercus laurifolia</i>	FACW	Cp,M,O
Palmetto	<i>Serona repens</i>	FACU	G,C
Melaleuca	<i>Melaleuca quinquenervia</i>	Exotic	M,C
Java plum	<i>Syzygium cumini</i>	Exotic	Cp,O
ear leaf acacia	<i>Acacia auriculiformis</i>	Exotic	Cp,C
carrotwood	<i>Cupaniopsis anacardioides</i>	Exotic	M,C
American Beautybush	<i>Callicarpa americana</i>	FACU-	G,O
Myrsine	<i>Myrsine floridana</i>	FAC	M,O
Broom sedge	<i>Andropogon virginicus</i>	FAC-	G,C
Blue Maidencane	<i>Amphicarpum muhlenbergianum</i>	FACW	G,C
Beak rush	<i>Rhynchospora microcarpa</i>	FACW+	G,C
Knotgrass	<i>Setaria geniculata</i>	FAC	G,C
Brazilian pepper	<i>Schinus terebinthifolius</i>	Exotic	M,O
Wax myrtle	<i>Myrcia cerifera</i>	FAC+	M,O
Caesar weed	<i>Urena lobata</i>	FACU	G,C
Poison ivy	<i>Toxicodendron radicans</i>	FAC	G,O
Smilax	<i>Smilax spp.</i>	FAC	G,C
Whitehead broom	<i>Spermacoce verticillata</i>	UPL	G,C
mat lippa	<i>Phyla nodiflora</i>	FACW	G,O
Chocolate weed	<i>Melochia corchorifolia</i>	FAC	G,O
Guineagrass	<i>Panicum maximum</i>	FAC-	C,O
umbrella sedge	<i>Cyperus ligularis</i>	FACW	G,O
snowberry	<i>Chiococca parvifolia</i>	UPL	G,O
Love vine	<i>Cassytha filiformis</i>	FAC-	G,O

624	Cypress / Pine/ Cabbage palm	Wetland
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This area may be considered jurisdictional wetlands. This area is vegetated with Slash pines, cypress and cabbage palms. The area is also vegetated with Melaleuca. The entire

site has Melaleuca in varying densities. The average is approximately 50 % or greater. Some areas are in the 75 –90 % range of Melaleuca densities. In addition, the area also has ear leaf acacia as another dominant exotic species. The ground cover consists of sawgrass, gulfdune paspalum and swamp fern.

Cypress	<i>Taxodium spp.</i>	OBL	Cp,C
Cabbage Palm	<i>Sabal palmetto</i>	FAC	M,C
Melaleuca	<i>Melaleuca quinquenervia</i>	Exotic	M,C
Ear leaf acacia	<i>Acacia auriculiformis</i>	Exotic	M,C
Brazilian pepper	<i>Schinus terebinthifolius</i>	Exotic	M,O
sawgrass	<i>Cladium jamaicense</i>	OBL	G,C
Swamp fern	<i>Blechnum serrulatum</i>	FACW+	G,C
Grape vine	<i>Vitis rotundifolia</i>	FAC	G,O
Poison ivy	<i>Toxicodendron radicans</i>	FAC	G,O
Smilax	<i>Smilax spp.</i>	FAC	G,O
pennywort	<i>Hydrocotyle spp.</i>	FACW	G,C
beakrush	<i>Rhynchospora microcarpa</i>	FACW+	G,C
Yellow-eyed grass	<i>Xyris elliottii</i>	OBL	G,C
laurel oak	<i>Quercus laurifolia</i>	FACW	M,C
wax myrtle	<i>Myrica cerifera</i>	FAC+	M,C
salt bush	<i>Baccharis glomerulifolia</i>	FAC	M,O
Broom sedge	<i>Andropogon virginicus</i>	FAC-	G,C
Gulfdune paspalum	<i>Paspalum monostachyum</i>	OBL	G,C

Wild Pines

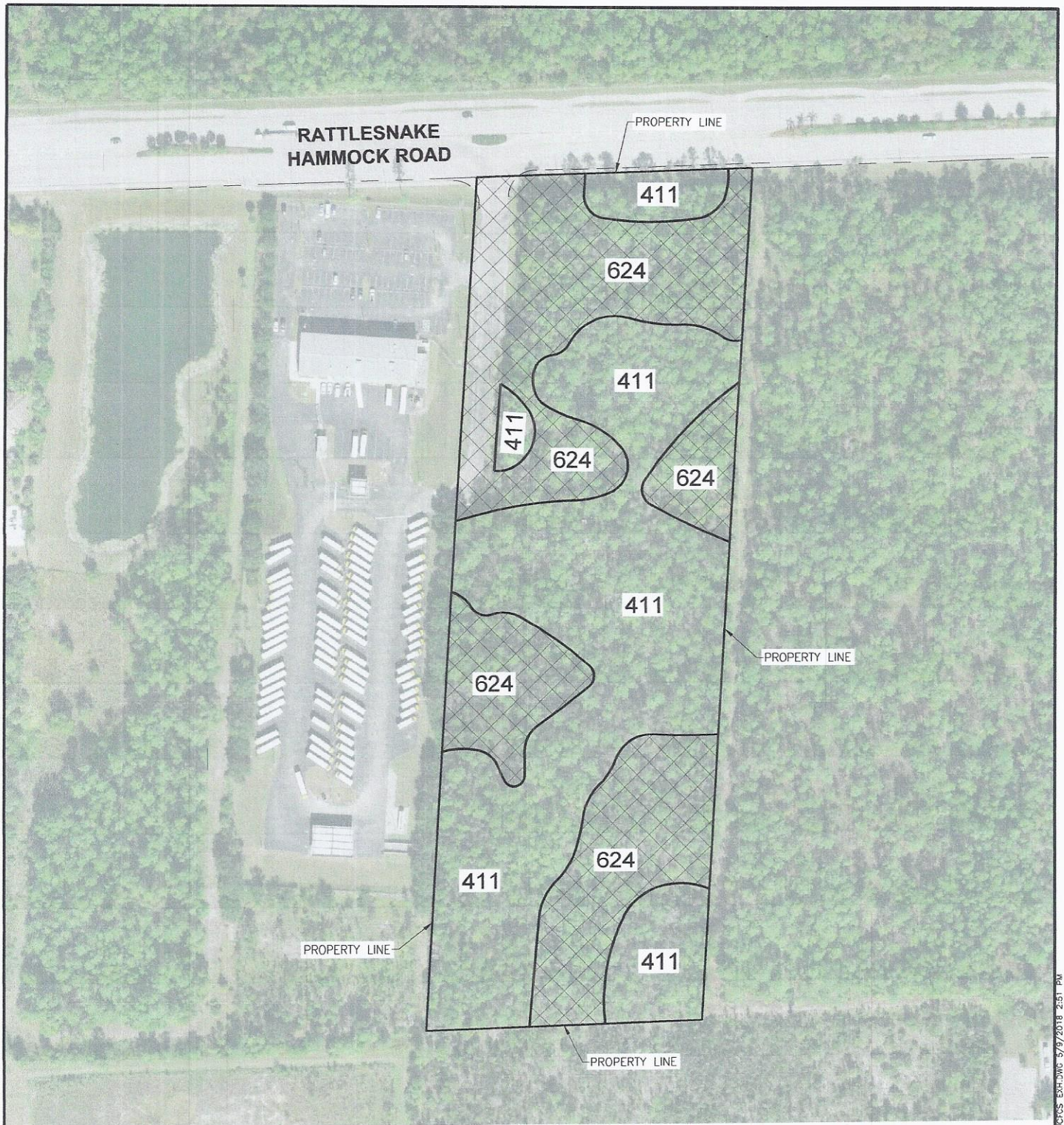
Stiff - leaved	<i>Tillandsia fasciculata</i>	FDA/C
Recurved	<i>T. balbisiana</i>	FDA/T
wired-leaved	<i>T. setacea</i>	FDA/T

ABBREVIATIONS – Canopy (Cp), Midstory (M), Ground Cover (G)
Dominant (D), Common (C), Occasional (O)

INDICATOR STATUS - Obligate (OBL), Facultative wet plants (FACW),
Facultative plants (FAC), Upland (UPL)

EXOTICS PEST PLANT LEVELS

E1 = exotic plant levels 0 – 25 % coverage
E2 = exotic plant levels 25 – 50 % coverage
E3 = exotic plant levels 50 – 75 % coverage
E4 = exotic plant levels 75 – 90 % coverage



FLUCFCS LEGEND

CODE	DESCRIPTION	ACRES
411 (UPLAND)	PINE FLATWOODS	6.13
624	PINE, CYPRESS, CABBAGE PALM E3 (50-70% EXOTICS)	5.35
	WETLANDS	



0 20' 40'
SCALE: 1" = 40'

RATTLESNAKE HAMMOCK ROAD BUS DEPOT FLUCFCS EXHIBIT



Civil Engineers • Land Surveyors
Planners • Landscape Architects
www.GradyMinor.com

SOILS

COLLIER COUNTY SOIL LEGEND
REVISED 1/90 H. YAMATAKI

HYDRIC

H	2	HOLOPAW FS, LIMESTONE SUBSTRATUM
H	3	MALABAR FS.
H	4	CHOBEE, LIMESTONE SUBSTRATUM AND DANIA MUCKS DEPRESSIONAL
H	6	RIVIERA, LIMESTONE SUBSTRATUM-COPELAND FS
	7	IMMOKALEE FS
	8	MYAKKA FS
	10	OLDSMAR FS, LIMESTONE SUBSTRATUM
	11	HALLANDALE FS
H	14	PINEDA FS, LIMESTONE SUBSTRATUM
	15	POMELLO FS
	16	OLDSMAR FS
H	17	BASINGER FS
H	18	RIVIERA FS, LIMESTONE SUBSTRATUM
	20	FT. DRUM AND MALABAR HIGH FS
	21	BOCA FS
H	22	CHOBEE, WINDER AND GATOR SOILS, DEPRESSIONAL
H	23	HOLOPAW AND OKEELANTA SOILS DEPRESSIONAL
H	25	BOCA, RIVIERA, LIMESTONE SUBSTRATUM AND COPELAND FS DEPRESSIONAL
H	27	HOLOPAW FS
H	28	PINEDA AND RIVIERA FS
	29	WABASSO FS
H	31	HILOLO LIMESTONE SUBSTRATUM, JUPITER AND MARGATE SOILS
	32	URBAN LAND
	33	URBAN LAND HOLOPAW BASINGER COMPLEX
	34	URBAN LAND IMMOKALEE OLDSMAR LIMESTONE SUBSTRATUM COMPLEX
	35	URBAN LAND AQUENTS COMPLEX ORGANIC SUBSTRATUM
	36	UDORTHENTS SHAPED
	37	TUSCAWILLA FS
	38	URBAN LAND MATLACHA LIMESTONE SUBSTRATUM BOCA COMPLEX
	39	SATELLITE FS
H	40	DURBIN AND WULFERT MUCKS
	41	URBAN LAND SATELLITE COMPLEX
	42	CANAVERAL BEACHES ASSOCIATION
H	43	WINDER, RIVIERA, LIMESTONE SUBSTRATUM AND CHOBEE SOILS DEPRESSIONAL
	45	PAOLA FS (1-8 percent slopes)
H	48	PENNSUCCO SOIL (marl prairie)
H	49	HALLANDALE AND BOCA FS (slough)
H	50	OCHOPEE FSL, PRAIRIE (marl)
H	51	OCHOPEE FSL
H	52	KESSON MUCK FREQUENTLY FLOODED
H	53	ESTERO AND PECKISH SOILS FREQUENTLY FLOODED
H	54	JUPITER BOCA COMPLEX
H	56	BASINGER FS, OCCASIONALLY FLOODED

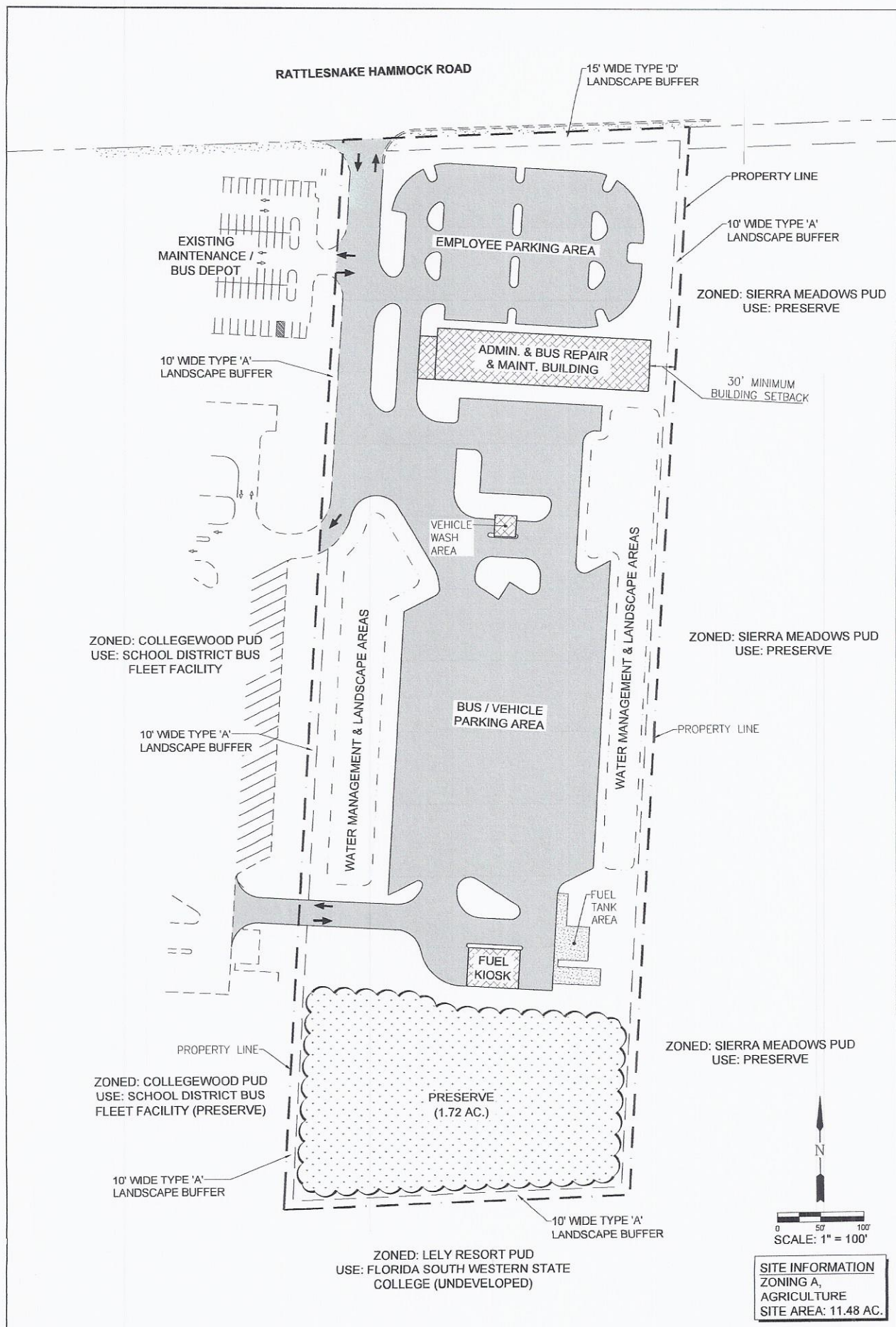
SOILS

- Selected Custom Parcels
- Streets MapWise
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- Parcel Outlines
- Soils Boundaries



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SITE PLAN



LEGEND		GradyMinor		RATTLESNAKE HAMMOCK ROAD		SCALE: 1" = 100'							
PARKING TABLE		 GradyMinor		G. Grady Minor and Associates, P.A. 3000 Via Del Rey Bonita Springs, Florida 34134		JOB CODE SP937							
		Civil Engineers • Land Surveyors • Planners • Landscape Architects				DATE: JULY, 2018							
		Ced. of Sales 12-0000151 Ced. of Sales 12-0000151		Business C.O. 0000055		FILE NAME: CEPSS-CU PLAN							
		Bonita Springs: 239.947.1144 www.GradyMinor.com		Fort Myers: 239.690.4300		SHEET 1 OF 1							
<table border="1"><thead><tr><th>TYPE</th><th>TOTAL SPACES</th></tr></thead><tbody><tr><td>AUTO PARKING (8x18)</td><td>127</td></tr><tr><td>BUS PARKING (12x40)</td><td>100</td></tr></tbody></table>		TYPE	TOTAL SPACES	AUTO PARKING (8x18)	127	BUS PARKING (12x40)	100						
TYPE	TOTAL SPACES												
AUTO PARKING (8x18)	127												
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LISTED SPECIES SURVEY

I **Introduction / Purpose**

This report is an account of a brief Listed Species survey recently performed on a tract of land called the Collier County School Bus Depot. The total site is approximately 10.66 acres in size. This survey and report is based on fieldwork performed during April 2018. Required to meet county review requirements, its purpose is to identify and describe key habitats and report any listed species using the site that would be at risk due to possible future development actions on the site.

II **Site Description**

The site consists of approximately 10.66 acres. This examination is for an expansion of the current Bus Depot. The neighboring parcel to the west is an existing School Bus Terminal. County growth necessitates an expansion of the current facility. This parcel is on Rattlesnake Hammock Road in Section 22, Township 50, Range 26; in Collier County, Florida.

The dominant forest types on this project site consist of a canopy of Slash pine, ear leaf acacia, and Melaleuca. The midstory is scattered with some cypress, cabbage palms and myrsine.

This project site consists of approximately 10.66 acres. The following is how the acreage figures breakdown. The total acreage was approximately 11.48 acres. A previously permitted access roadway impacted approximately 0.82 acres.

411 - Slash pine	6.13 acres
624 - Slash pine, cypress, Cabbage palm and Melaleuca	5.35 acres (includes roadway)

III **Listed Species Survey**

The required survey for a Listed Species Survey calls for a survey covering 100 % of the site, at prescribed transect distances per site acreage. Such a survey was attempted in April 20, 2018. Established transects were oriented north - south and east - west and superimposed on an aerial map of the site. These transects were ground - located and walked by compass bearing. Early morning (0730 - 1000), mid-day (1100 - 1500) and late-day (1500 - 1800) time periods were chosen to survey these transects. All possible species of plants and animals listed by state and federal agencies were noted. Concurrently, notes for FLUCCS mapping purposes were kept. Dense exotics at times prevent complete transects. Stationary observations were also utilized.

IV **Results & Discussions**

Listed Flora

A few listed plant species have been found. A few different Tillandsia spp. were found. None are considered rare. They are listed by the state of Florida primarily due to their commercial value.

See FLUCCS Plant List

Listed Fauna

See Wildlife Species Observed

Key Species Discussion

Big Cypress Fox Squirrels

Big Cypress Fox Squirrels are known to use similar habitat found onsite. Observations were keyed to searching for signs or calls of these animals, such as leaf nests in canopy trees or the distinctive chattering of territorial squirrels and /or chewed pine cones. No individuals were observed during this study.

Florida Black Bear

One individual was observed during this survey. Black bears are known to inhabit the general area. This mammal does have a large home range and is known to inhabit Golden Gate Estates and the surrounding areas. A Bear Management Plan will be provided.

Conclusions

Focused searches were conducted over four days. Transects were walked on straight compass bearings along a grid spaced at approximately 20 yards apart for the entire parcel. Other transects were primarily meandering transects through areas of prime habitat. All transects were walked at varying times from post-dawn & mid-day to pre-sunset hours.

Southern Biomes, Inc conducted two previous surveys on 12/20/2005 and again on 6/16/2006. None were found during both these surveys.

This parcel is bordered by Rattlesnake Hammock road along its northern border. To the west is the current Collier county School Bus Depot. The site does have suitable habitat for numerous vertebrates.

This brief assessment was conducted on April 2018. During this survey there was a lot of high noise and human disturbance at times. To the west is the existing school bus terminal. As such buses started moving very early. The main vertebrates encountered were birds traversing the subject parcel. One black bear was spotted towards the very

south end on the neighboring property.

Our survey also found a few *Tillandsia's* on site.

Threatened, Endangered and Species of Special Concern

<u>Species</u>	<u>Present</u>	<u>Absent</u>
Black bear	x	
Florida panther		x
Everglades mink		x
Big Cypress Fox squirrel	suspected	x
Indigo snake		x
American alligator		x
Gopher tortoise		x
Gopher Frog		x
Southeastern American kestrel		x
Red-Cockaded woodpecker		x
Florida Scrub Jay		x
Wood stork		x
Snail kite		x
Bald eagle		x
Limpkin		x
osprey		x
White ibis		x
Tricolored heron		x
snowy egret		x
Reddish egret		x
Little blue heron		x



LOCATION

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0 170 340 510 ft

FLUCCS CODE AND VEGETATION INVENTORY

FLUCCS CODE	(Description)		
Common Name	Scientific Name	Indicator	Status

411	Slash pine	Upland	
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This habitat would be considered upland. This area does have similar species as the wetland area however; the difference is the density of Slash pine and the presence of palmetto as ground cover. Both will have similar species such as cabbage palms, sawgrass, ear leaf acacia and Melaleuca.

Slash Pine	<i>Pinus elliotti</i>	FACW	Cp,D
Cypress	<i>Taxodium spp.</i>	OBL	Cp,M,C
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Palmetto	<i>Serona repens</i>	FACU	G,C
Melaleuca	<i>Melaleuca quinquenervia</i>	Exotic	M,C
Java plum	<i>Syzygium cumini</i>	Exotic	Cp,O
ear leaf acacia	<i>Acacia auriculiformis</i>	Exotic	Cp,C
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Love vine	<i>Cassytha filiformis</i>	FAC-	G,O

624	Cypress / Pine/ Cabbage palm	Wetland
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This area may be considered jurisdictional wetlands. This area is vegetated with Slash pines, cypress and cabbage palms. The area is also vegetated with Melaleuca. The entire

site has Melaleuca in varying densities. The average is approximately 50 % or greater. Some areas are in the 75 –90 % range of Melaleuca densities. In addition, the area also has ear leaf acacia as another dominant exotic species. The ground cover consists of sawgrass, gulfdune paspalum and swamp fern.

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Gulfdune paspalum	<i>Paspalum monostachyum</i>	OBL	G,C

Wild Pines

Stiff - leaved	<i>Tillandsia fasciculata</i>	FDA/C
Recurved	<i>T. balbisiana</i>	FDA/T
wired-leaved	<i>T. setacea</i>	FDA/T

ABBREVIATIONS – Canopy (Cp), Midstory (M), Ground Cover (G)
Dominant (D), Common (C), Occasional (O)

INDICATOR STATUS - Obligate (OBL), Facultative wet plants (FACW),
Facultative plants (FAC), Upland (UPL)

EXOTICS PEST PLANT LEVELS

E1 = exotic plant levels 0 – 25 % coverage
E2 = exotic plant levels 25 – 50 % coverage
E3 = exotic plant levels 50 – 75 % coverage
E4 = exotic plant levels 75 – 90 % coverage

WILDLIFE SPECIES OBSERVED

<u>Common Name</u>	<u>Species</u>	<u>Status</u>
Amphibian & Reptiles:		
Brown anole	<u>Anolis sagrei</u>	
Black racer	<u>Columber constrictor</u>	
Birds:		
Dove- mourning	<u>Zenaida macroura</u>	
mockingbird	<u>Mimus polyglottos</u>	
Vulture, turkey	<u>Cathartes aura</u>	
Vulture, Black	<u>Coragyps atratus</u>	
Pileated woodpecker	<u>Dryocopus pileatus</u>	
Northern flicker	<u>Colaptes auratus</u>	
Flycatcher, great crested	<u>Myiarchus crinitus</u>	
Pine warbler	<u>Dendroica pinus</u>	
Crow, american	<u>Corvus brachyrhynchos</u>	
Common grackle	<u>Quiscalus quiscula</u>	
Bluejay	<u>Cyanocitta cristata</u>	
Carolina wren	<u>Thryothorus ludovicianus</u>	
Gray catbird	<u>Dumetella carolinensis</u>	
Cardinal	<u>Richmondia cardinalis</u>	
Mammals:		
Virginia opossum	<u>Didelphis virginiana</u>	
Raccoon	<u>Procyon lotor</u>	
Nine-banded armadillo	<u>Dasypus novemcinctu</u>	
Bobcat	<u>Felis rufus</u>	
Black bear	<u>Ursus americanus</u>	