VICINITY MAP:

LOCATION MAP:

SCALE: N. T. S.	DESIGNED: JAA DRAWN BY: EEF CHECKED BY: JAA DATE: 11-30-2005	ENVIRONMENTAL RESTORATION CONSULTANTS, INC.	CLIENT: Bruce Gora, Trustee	SIX MILE CYPRESS PARKWAY 8.4 Ac PARCEL LEE COUNTY, FLORIDA SECTION 17 TOWNSHIP 45 S., RANGE 25 E.	DATE REVISIONS
CAD FILE: Gora - USACOE & SFWMD.dwg		P.O. BOX 110994 NAPLES, FL 34108 Telephone: 239.992.0086 Cell: 239.287.2206 EMAIL: ERCINC@comcastnet			
XREF: USACOE & SFWMD Maps			43 BARKLEY CIRCLE FORT MYERS, FL 33901	LOCATION MAP	
SHEET 1 of 9	JEFFREY A. ADAIR				

C:\Documents and Settings\Administrator\My Documents\Bruce Gora-8.4 ac\Corps\Corps 3rd RAI & Response (10-07)\Corps RAI Revisions(10-04-07).dwg, 10/5/2007 10:03:20 AM

SOILS LEGEND:

TOTAL SITE = 8.26 Ac.

26 - Pineda Fine Sand - Hydric [7.80 Ac.]
39- Isles Fine Sand, Depressional- Hydric [0.46 Ac.]

SOILS TYPE DIVISION

SITE BOUNDARY

Aerial from Lee Property Appraisser - 2005

N W E S

0 100 200 300

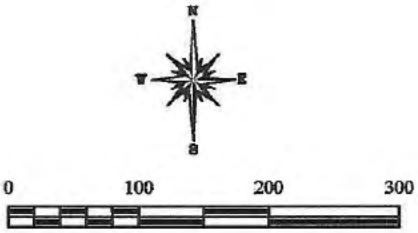
SCALE: 1":150'	DESIGN BY: TAA DRAWN BY: PEP CHECKED BY: TAA DATE: 11-20-2006	ENVIRONMENTAL RESTORATION CONSULTANTS, INC.	P.O. BOX 110994, NAPLES, FL 34108 Telephone: 239 992-0086 Cell: 239 287-2006 EMAIL: ERCINC@comcast.net	CLIENT: Bruce Gora, Trustee	SIX MILE CYPRESS PARKWAY 8.4 Ac PARCEL LEE COUNTY, FLORIDA SECTION 17 TOWNSHIP 45 S., RANGE 25 E.
CAD FILE: Gora - USACOE & SFWMD.dwg					DATE REVISIONS
DWG NO: USACOE & SFWMD Maps				43 BARKLEY CIRCLE FORT MYERS, FL 33901	SFWMD JD Line & Ex. FLUCCS MAP
SHEET 2 OF 9	JEFFREY A. ADAIR				

C:\Documents and Settings\Administrator\My Documents\Bruce Gora-8.4 ac\Corps\Corps 3rd RAI & Response (10-07)\Corps PN Revisions(10-04-07).dwg, 10/4/2007 9:27:59 PM

FLUCCS LEGEND:

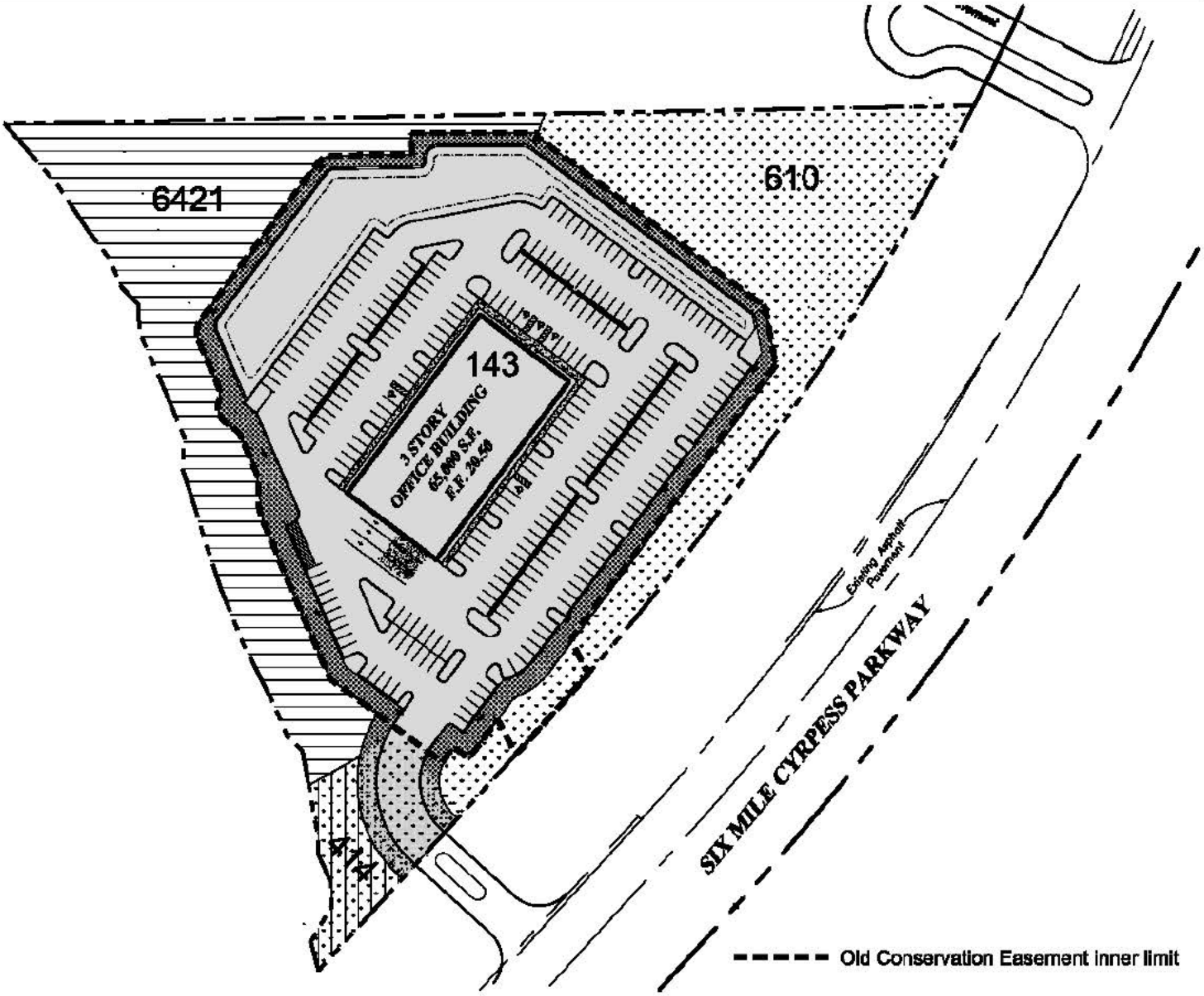
414(H)/619	PINE - MESIC OAK (HYDRIC) / EXOTIC WETLAND HARDWOODS (0.37 Ac.)
610/619	WETLAND HARDWOOD FORESTS / EXOTIC WETLAND HARDWOODS (1.06 Ac.)
619	EXOTIC WETLAND HARDWOODS (4.29 Ac.)
610	WETLAND HARDWOOD FORESTS (2.52 Ac.)
411	PINE FLATWOODS (0.02 Ac.)

TOTAL SITE AREA = 8.26 Ac.



SCALE: 1":150'	DESIGN BY: JAA DRAWN BY: FRF CHECKED BY: JAA DATE: 11-30-2005	ENVIRONMENTAL RESTORATION CONSULTANTS, INC.	P.O. BOX 110994 NAPLES, FL 34108 Telephone: 239.992.0086 Cell: 239.287.2006 EMAIL: ERCINC@comcast.net	CLIENT: Bruce Gora, Trustee 43 BARKLEY CIRCLE FORT MYERS, FL 33901	SIX MILE CYPRESS PARKWAY 8.4 Ac PARCEL LEE COUNTY, FLORIDA SECTION 17 TOWNSHIP 45 S., RANGE 25 E. SFWMD JD Line & Ex. FLUCCS MAP
CAD FILE: Gora - USACOE & SFWMD.dwg DWG NO: USACOE & SFWMD Maps SHEET: 3 OF 9	JEFFREY A. ADAIR				DATE REVISIONS:

C:\Documents and Settings\Administrator\My Documents\Bruce Gora-8.4 ac\Corps\Corps 3rd RAI & Response (10-07)\Corps PN Revisions(10-04-07).dwg, 10/4/2007 9:27:41 PM

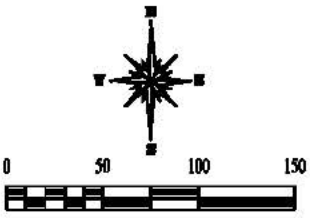


PROPOSED FLUCCS MAP

FLUCCS LEGEND:

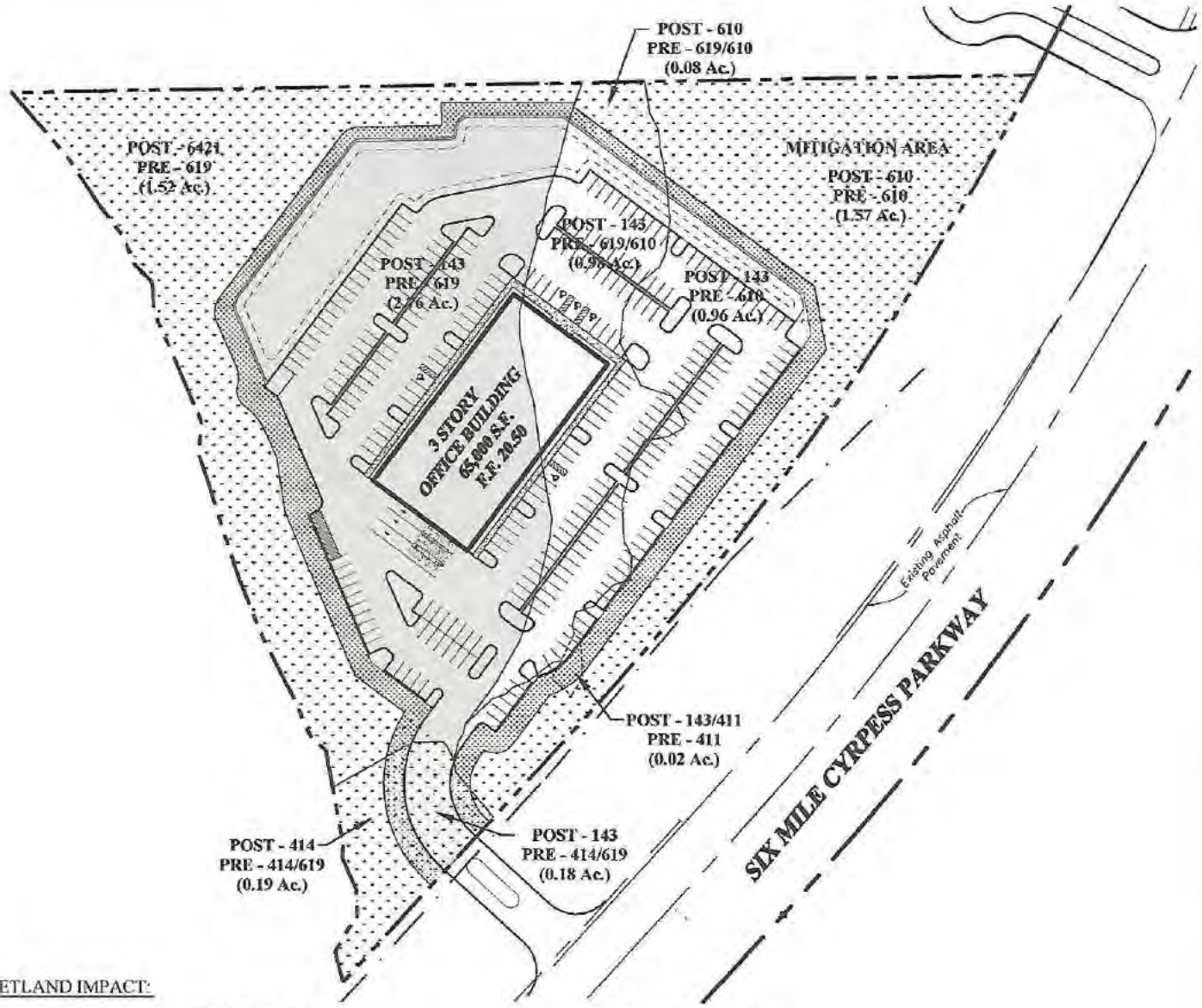
- 610 - WETLAND HARDWOOD FORESTS - (1.65 Ac.)
- 414 - PINE - MESIC OAK - (0.19 Ac.)
- 6421 -CORDGRASS - (1.53 Ac.)
- 143 - PROFESSIONAL SERVICES (4.88 Ac.)

TOTAL SITE AREA - (8.25 Ac.)



SCALE: 1" = 150'

SCALE: 1" = 150'	DESIGN BY: JAA DRAWN BY: JMP CHECKED BY: JAA DATE: 11-18-2005	ENVIRONMENTAL RESTORATION CONSULTANTS, INC.	P.O. BOX 110594, NAPLES, FL 34108 Telephone: 239.992.0080 Cell: 239.287.2704 EMAIL: ERCINC@comcast.net	CLIENT: Bruce Gora, Trustee 43 BARKLEY CIRCLE FORT MYERS, FL 33901	SIX MILE CYPRESS PARKWAY 8.26 Ac PARCEL LEE COUNTY, FLORIDA SECTION 17 TOWNSHIP 45 S., RANGE 25 E. PROPOSED FLUCCS MAP	DATE / REVISION / REMARKS For SFWMD permit mod. application
CAD FILE: Bruce Gora 2nd Response.dwg DWG NO: Proposed FLUCCS MAP SHEET: 4 OF 9	JEFFREY A. ADAIR					



WETLAND IMPACT:

TOTAL WETLAND FILL IMPACT = 30,300 c.y. [4.74 Ac.]

WETLAND FILL IMPACT

Code	Area	Volume
619/610	0.98 Ac.	6,350 c.y.
619	2.76 Ac.	17,880 c.y.
610	0.96 Ac.	6,320 c.y.
414/619	0.18 Ac.	1,400 c.y.
TOTAL =	**4.88 Ac.**	**31,950 c.y**

MITIGATION AREAS
(CONSERVATION EASEMENT)

Code	Area	
610	1.65	Ac. - Hardwood Mitigation (0.08 Ac. 619/610 + 1.57 Ac. 610)
6421	1.53	Ac. - Sand Cordgrass Mitigation
414	0.19	Ac. - Pine-Mesic Oak Mitigation
TOTAL =	**3.37**	**Ac.**

LEGEND:
EXISTING FLUCCS DIVISION LINE
POST - 143 — POST DEVELOPMENT FLUCCS CODE
PRE - 414/619 — PRE DEVELOPMENT FLUCCS CODE

STRUCTURAL BUFFER
(incl. in fill impact acreage and fill volume)

411	0.69	Ac.	N/A

UPLAND IMPACT:

UPLAND IMPACT

Code	Area		Volume
411	0.02	Ac.	N/A

143 411
No Impact

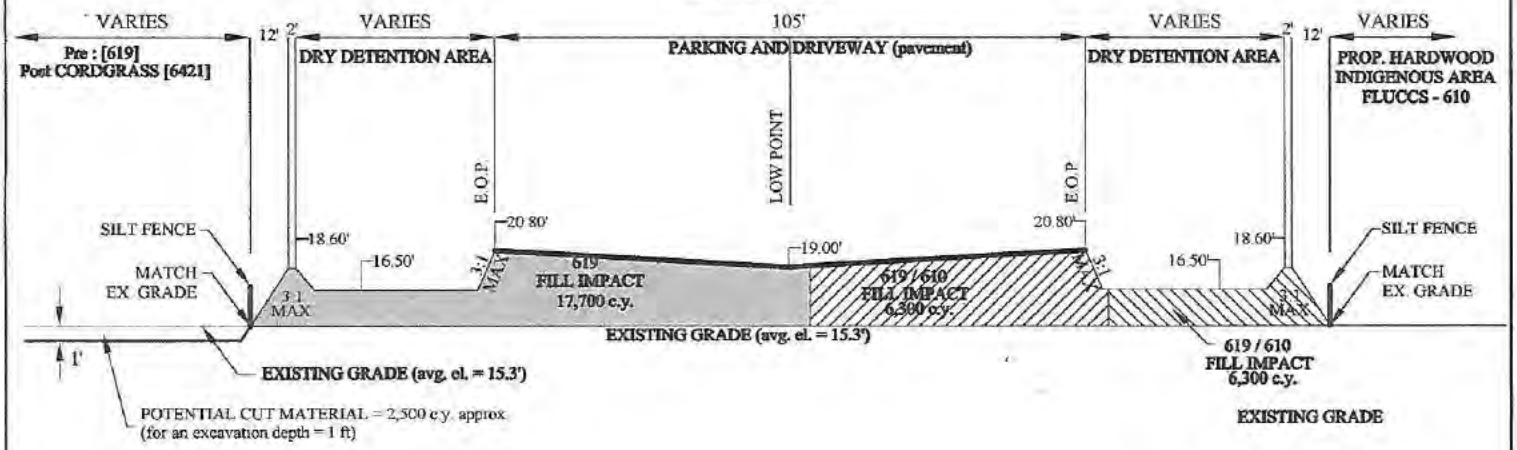
N W E S

0 50 100 150

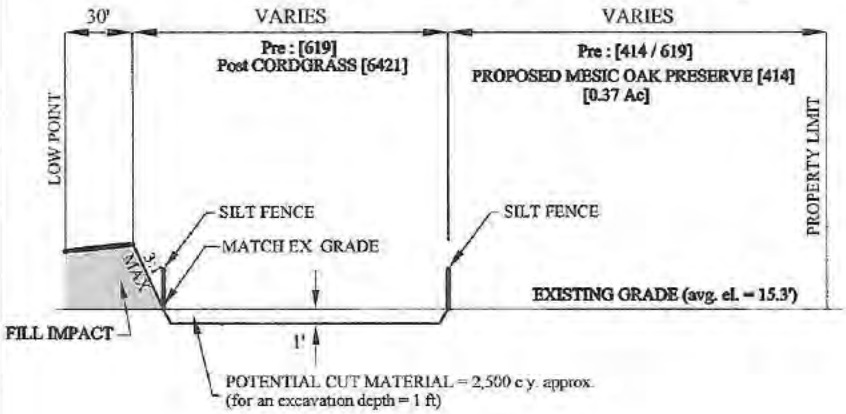
SCALE: 1" = 150'

SCALE 1" = 150'	DESIGNED BY: JAA DRAWN BY: KRE CHECKED BY: JAA DATE: 11-13-2008	P.O. BOX 110994, NAPLES, FL 34103 Telephone: 239.592.0086 Cell: 239.287.2706 EMAIL: ERCINC@comcast.net	CLIENT: Bruce Gora, Trustee 43 BARKLEY CIRCLE FORT MYERS, FL 33901	SIX MILE CYPRESS PARKWAY 8.26 Ac PARCEL LEE COUNTY, FLORIDA SECTION 17 TOWNSHIP 45 S., RANGE 25 E.	DATE / REVISIONS 12/12/08 For SFWMD permit application
FILE: Bruce Gora 2nd Response.dwg					
DRAWING: Impact Plan					
SHEET 5 OF 9	JEFFREY A. ADAIR			IMPACT PLAN	

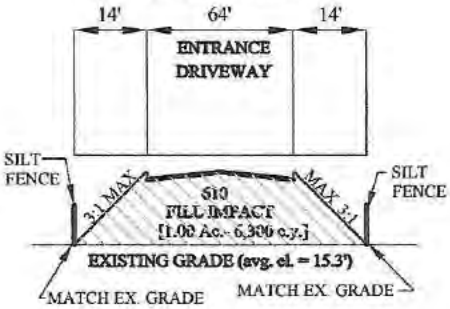
SECTION A-A



SECTION B-B



SECTION C-C



LEGEND:

619/610 Fill Impact

619 Fill Impact

610 Fill Impact

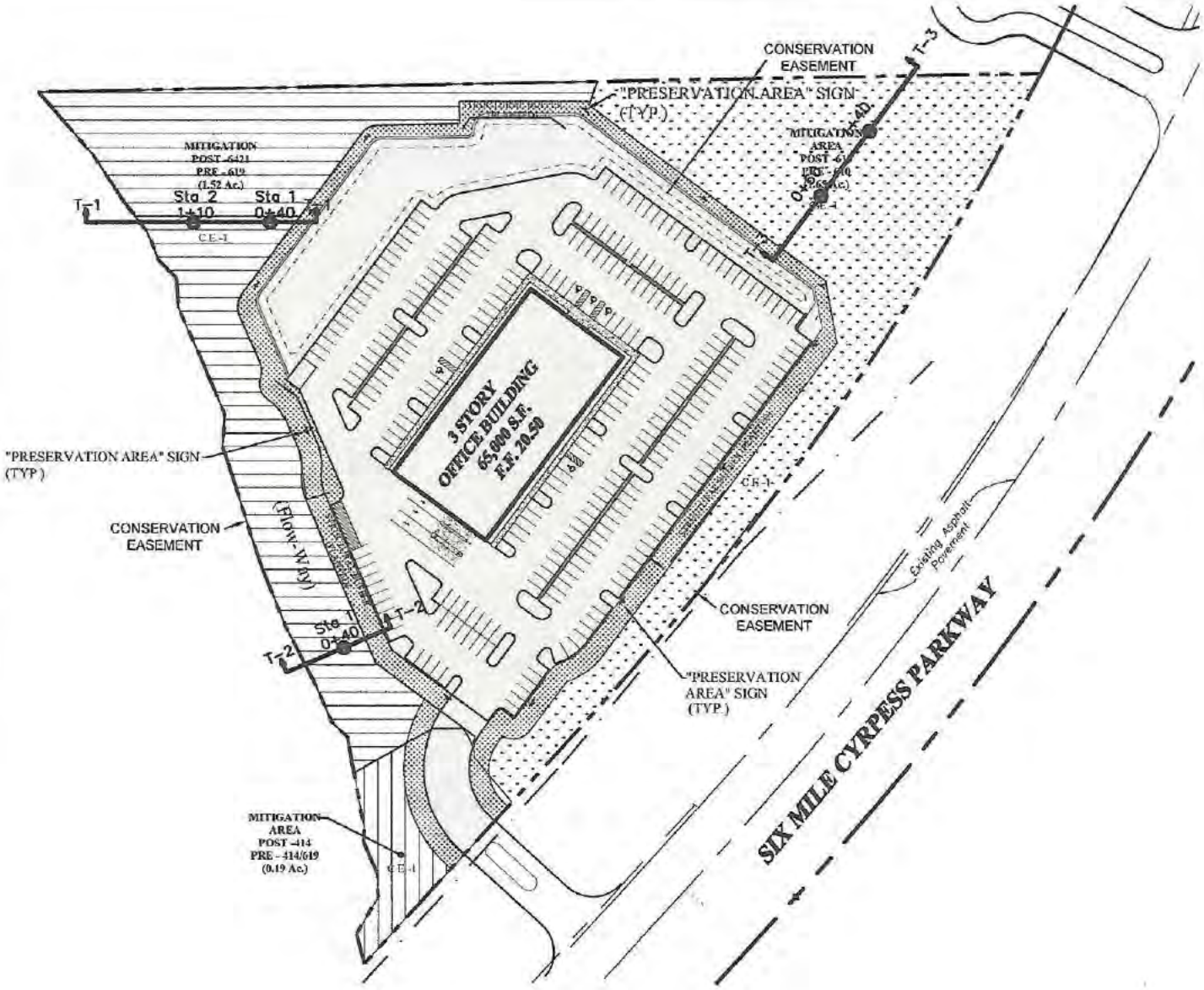
Post - 143 PROPOSED FLUCCS CODE (see Map 4 of 8)

Pre - 414 / 619 EXISTING FLUCCS CODE (see Map 3 of 8)

MITIGATION CALCULATIONS
S.F.W.M.D. IMPACT / MITIGATION TABLE (2008)

EXISTING FLUCCS	EXISTING UMAM	TOTAL AC.	IMPACT AC.	F.L.	POST FLUCCS	POST UMAM	POST AC.	ADJ. DELTA	F.G. (ON-SITE)	F.G. (BANK)	C.E. NUMBER
610	0.60	2.53	0.96	0.58	610	0.83	1.57	0.143	0.225		C.E. - 1
619/610	0.47	1.06	0.98	0.46	610	0.80	0.08	0.206	0.016		C.E. - 1
414/619	0.10	0.37	0.18	0.02	414	0.83	0.19	0.350	0.067		C.E. - 1
619	0.30	4.29	2.76	0.83	6421	0.83	1.53	0.330	0.505		C.E. - 1
					610	1.00				1.08	
TOTALS		8.25	4.88	1.89			3.37		0.813	1.08	

SCALE: N.T.S.	DESIGNED: JAA DRAWN BY: EAP CHECKED BY: JAA DATE: 11-10-2009	P.O. BOX 110994, NAPLES, FL 34108 Telephone: 239.992.0086 Cell: 239.287.2706 EMAIL: ERCINC@comcast.net	CLIENT: Bruce Gora, Trustee 43 BARKLEY CIRCLE FORT MYERS, FL 33901	SIX MILE CYPRESS PARKWAY 8.4 Ac PARCEL LEE COUNTY, FLORIDA SECTION 17 TOWNSHIP 45 S., RANGE 25 E.	DATE: 12/03/09 REVISIONS: For SFWMD permit mod. application
CAD FILE: Gora - USACOE & SFWMD.dwg					
DWG NO: USACOE & SFWMD Maps					
SHEET: 6 of 9	JEFFREY A. ADAIR			IMPACT CROSS SECTIONS	



610 - WETLAND HARDWOOD FORESTS - 1.65 Ac

414 - PINE - MESIC OAK - 0.19 Ac.

6421 -CORDGRASS - 1.53 Ac

TOTAL PROPOSED PRESERVE AREA - 3.37 Ac.

414 - STRUCTURAL BUFFERS-PLANTED - 0.69 AC
(Acreage incl. in Development area)

DEVELOPMENT AREA (CODE 143) - 4.19 Ac.

TOTAL SITE AREA = 8.25 Ac.

Sta. 2 - MONITORING STATION AND PHOTO LOCATION

"PRESERVATION AREA" SIGN

PERMANENT FENCE

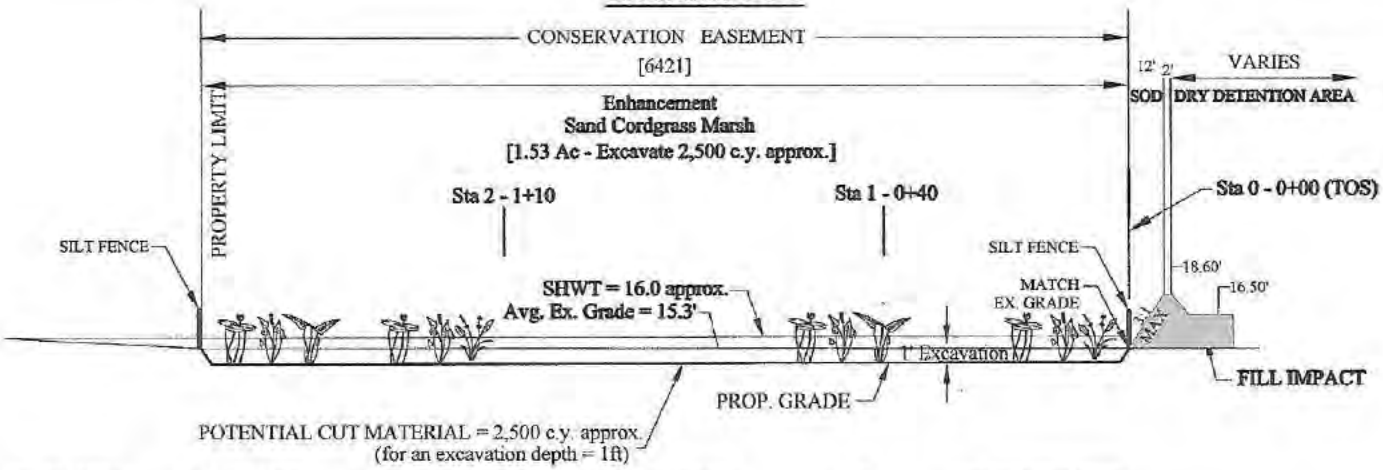
N
W E
S

0 50 100 150

SCALE: 1" = 150'

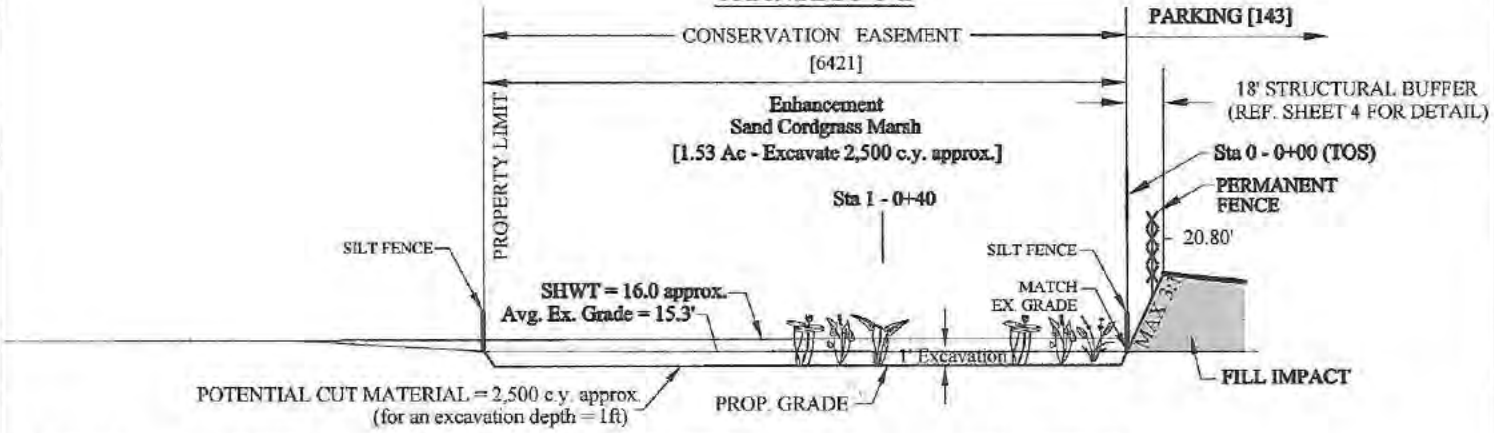
SCALE 1" = 150'	DESIGNED: MA	P.O. BOX 110994, NAPLES, FL 34108 Telephone: 239.992.0086 Cell: 239.287.2706 EMAIL: ERCINC@comcast.net	CLIENT: Bruce Gora, Trustee	SIX MILE CYPRESS PARKWAY 8.26 Ac PARCEL	DATE 12/05/08 REVISIONS: for SFWMD permit mod. application
CAD FILE: Bruce Gora 2nd Responsibility	DRAWN BY: HR			LEE COUNTY, FLORIDA	
DWG NO. Mitigation Plan	CHECKED BY: MA		43 BARKLEY CIRCLE FORT MYERS, FL 33901	SECTION 17 TOWNSHIP 45 S., RANGE 25 E.	
SHEET 7 of 9	DATE: 11-30-2005			MITIGATION PLAN	
	JEFFREY A. ADAIR				

TRANSECT T-1



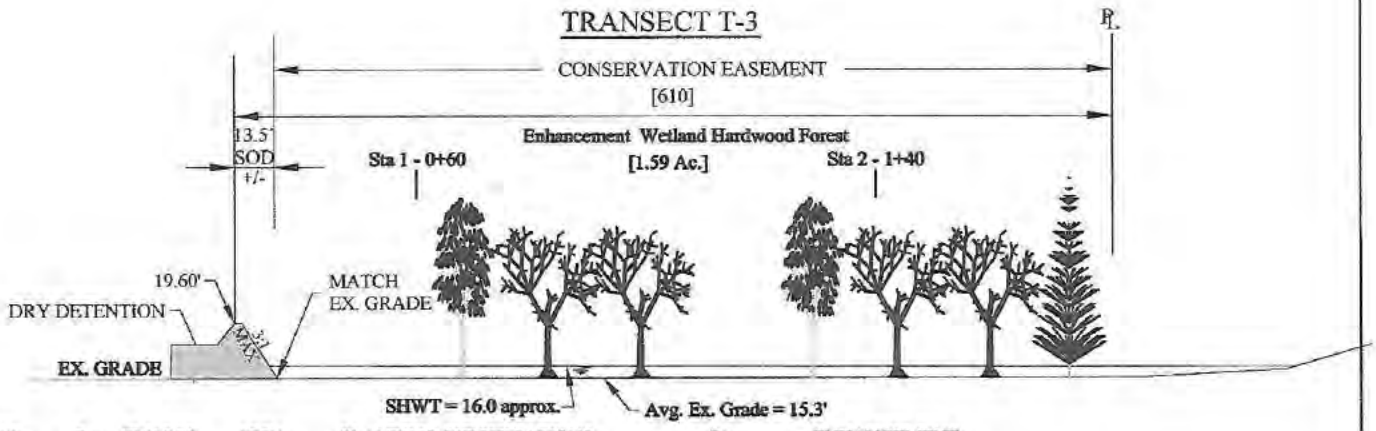
Ex.FLUCCS	Prop. FLUCCS	AREA	PLANTING SPECIFICATIONS	Qty.	ENHANCEMENT
619	6421	1.53 Ac.	Spartina bakeri liner/BR, 12"-18" ht., 3' o.c.	7,405	Exotic Eradication; Hydrological (excavation); Planting; Conservation Easement (C.E.-1)

TRANSECT T-2



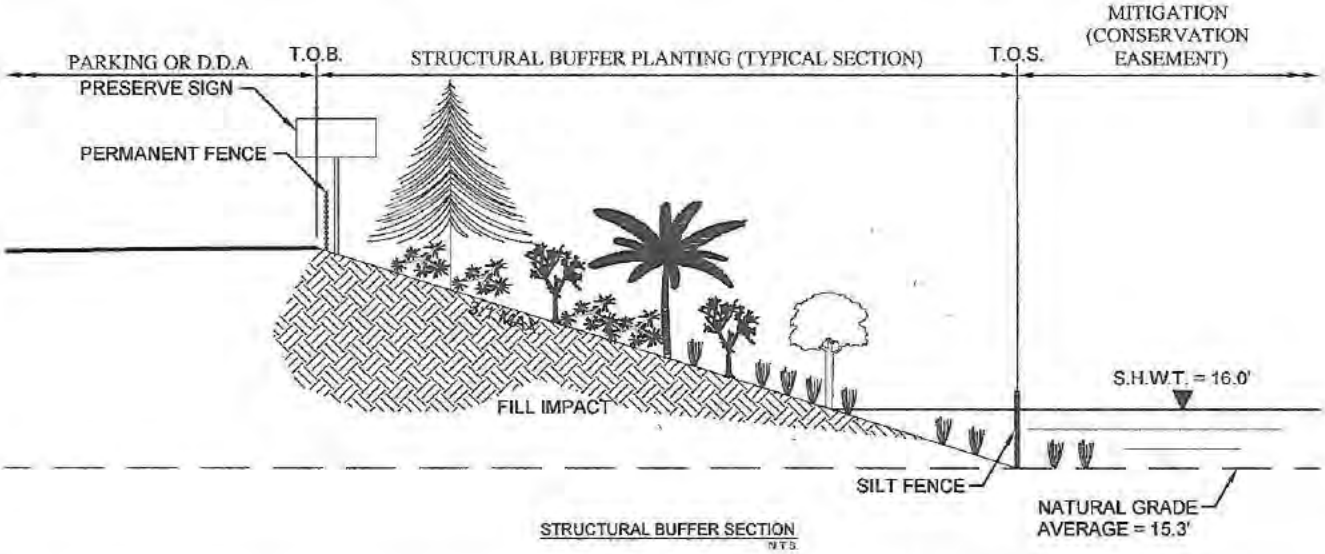
Ex.FLUCCS	Prop. FLUCCS	AREA	PLANTING SPECIFICATIONS	Qty.	ENHANCEMENT
619	6421	1.53 Ac.	Spartina bakeri liner/BR, 12"-18" ht., 3' o.c.	7,405	Exotic Eradication; Hydrological (excavation); Planting; Conservation Easement (C.E.-1)

TRANSECT T-3



Ex.FLUCCS	Prop. FLUCCS	AREA	PLANTING SPECIFICATIONS	Qty.	ENHANCEMENT
610	610	1.57 Ac.	N/A	N/A	Exotic Eradication; Conservation Easement (C.E.-1)
619/610	610	0.08 Ac.	N/A	N/A	Exotic Eradication; Conservation Easement (C.E.-1)

SCALE: N.T.S.	DESIGNED: JAA DRAWN BY: PRF CHECKED BY: JAA DATE: 11-10-08	P.O. BOX 110994, NAPLES, FL 34108 Telephone: 239.992.0086 Cell: 239.287.2706 EMAIL: BRCINC@comcast.net	CLIENT: Bruce Gora, Trustee 43 BARKLEY CIRCLE FORT MYERS, FL 33901	SIX MILE CYPRESS PARKWAY 8.4 Ac PARCEL LEE COUNTY, FLORIDA SECTION 17 TOWNSHIP 45 S., RANGE 25 E. MITIGATION CROSS SECTIONS	DATE / REVISIONS 1 12/03/08 For SFWMD permit mod. application
FILENAME: Gora - USACOE & SFWMD.dwg LAYOUT: USACOE & SFWMD Maps SHEET: 8 of 9	JEFFREY A. ADAIR				



STRUCTURAL BUFFER SECTION
NTS

STRUCTURAL BUFFER PLANTING PLAN - TYPICAL
414 PINE-MESIC OAK (0.69 Ac.)

COMMON NAME (SCI. NAME)	QTY.	SPECIFICATIONS
COCOPLUM (CHRYSOBOLAMIS ICACI)	391	1 GAL., ± 18" HT., FULL, 3' O.C.
WAX MYRTLE (MYRICA CERIFERA)	391	1 GAL., ± 18" HT., FULL, 3' O.C.
WILD COFFEE (PSYCHOTRIA NERVOSA)	391	1 GAL., ± 18" HT., FULL, 3' O.C.
GALLBERRY (ILEX GLABRA)	391	1 GAL., ± 18" HT., FULL, 3' O.C.
BEAUTYBERRY (CALLICARPA AMERICNA) *	N/A	1 GAL., ± 18" HT., FULL, 3' O.C.
SLASH PINE (PINUS ELLIOTTII)	42	B.B./7 gal., 6' ht.., FULL, 12' O.C.
CABBAGE PALM (SABAL PALMETTO)	42	6' C.T., 12' O.C.
LAUREL OAK (QUERCUS LAURIFOLIA)	42	3 GAL., 4' HT., FULL, 12' O.C.
DAHOON HOLLY (ILEX CASSINE)	42	3 GAL., 4' HT., FULL, 12' O.C.
MYRSINE (MYRSINE GUIANENSIS)	42	3 GAL., 4' HT., FULL, 12' O.C.
RED BAY (PERSEA BORBONIA) *	N/A	3 GAL., 4' HT., FULL, 12' O.C.
SAND CORDGRASS (SPARTINA BAKERI)	1,565	1 GAL., 12" - 18" ht., FULL, 3' O.C.

Note: * Alternate species acceptable as substitution or in conjunction with other plants.

PRESERVE BOUNDARY SIGN

PRESERVE BOUNDARY LINE

NO ALTERATIONS PERMITTED TO VEGETATION OR WATER

ENVIRONMENTALLY SENSITIVE AREA

Note: Sign to be constructed of materials accepted by FDOT

SCALE: N.T.S.	DESIGN BY: JAA DRAWN BY: JAA CHECKED BY: JAA DATE: 10-10-2005	P.O. BOX 110994, NAPLES, FL 34108 Telephone: 239.592.0086 Cell: 239.287.2706 EMAIL: ERCINC@comcast.net	CLIENT: Bruce Gora, Trustee 43 BARKLEY CIRCLE FORT MYERS, FL 33901	SIX MILE CYPRESS PARKWAY 8.4 Ac PARCEL LEE COUNTY, FLORIDA SECTION 17 TOWNSHIP 45 S., RANGE 25 E.	DATE / REVISIONS 1 12/02/06 For SFWMD permit mod. application 2 3 4 5 6
FILE NAME: Gora - USACOE & SFWMD.dwg DRAWING: USACOE & SFWMD.dgn SHEET: 9 of 9	JEFFREY A. ADAIR			STRUCTURAL BUFFER X-SECTION	