

APPROVED PLAN AS PERMITTED BY BUREAU OF BEACHES AND COASTAL SYSTEMS FLORIDA DEPT OF ENVIRONMENTAL PROTECTION

APPROVED CONSTRUCTION AND ANY OTHER AUTHORIZED ACTIVITIES MUST COMPLY WITH ALL CONDITIONS OF THE PERMIT. CONSTRUCTION AND ACTIVITIES ARE STRICTLY LIMITED TO THOSE BOTH SHOWN ON THE APPROVED PLANS AND LISTED IN THE PROJECT DESCRIPTION. THIS PERMIT IS ISSUED PURSUANT TO CH. 161, F.S., AND OTHER PERMITS MAY BE REQUIRED.

REVIEWED *27* / *27 APR 11* DATE / *PB-991* PERMIT NO.

RECEIVED
MAY 20 2010
BUREAU OF BEACHES & COASTAL SYSTEMS



PROJECT LOCATION

SPANISH RIVER BOULEVARD

PROJECT LIMITS



VIEW CORRIDOR 1

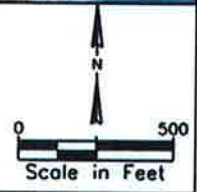
VIEW CORRIDOR 2

VIEW CORRIDOR 3

VIEW CORRIDOR 4

NOTE: AERIAL IMAGE DATE AUGUST 2009

PB-991

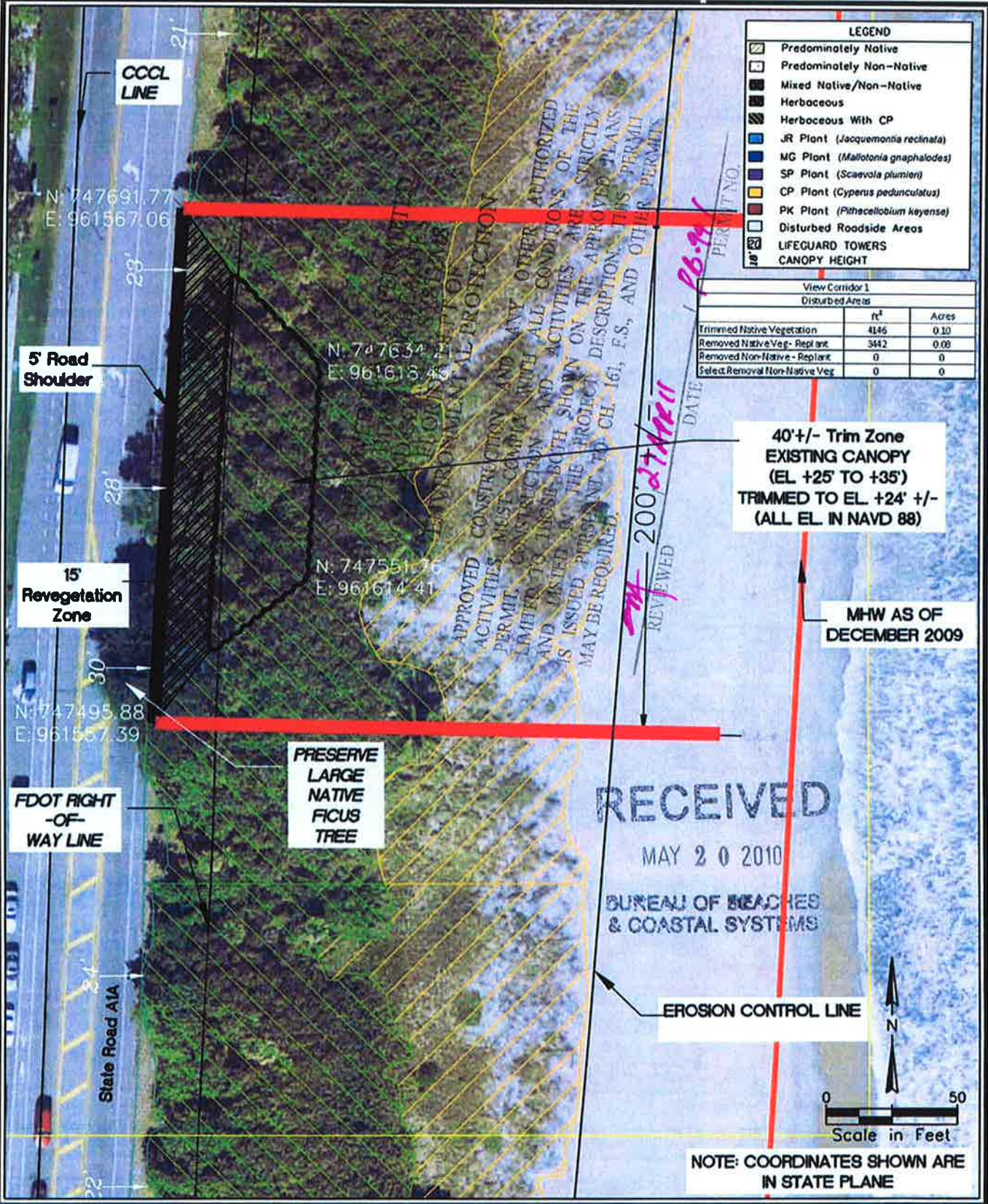


ATM
APPLIED TECHNOLOGY & MANAGEMENT
400 S. Australian Ave., Suite 300
West Palm Beach, FL 33401
Certificate of Authorization #4689

City of Boca Raton, FL
Spanish River Park
Dune Vegetation Management Plan
Project Location

JOB NUMBER: 09-2080
ISSUE DATE: 05-06-2010
Sheet Number 1 of 6

John C. Duchock
John C. Duchock
Professional Engineer
Florida License Number 60457



ATM
APPLIED TECHNOLOGY & MANAGEMENT
ATM

400 S. Australian Ave., Suite 300
West Palm Beach, FL 33401
Certificate of Authorization #4669

City of Boca Raton, FL
Spanish River Park

Dune Vegetation Management Plan
View Corridor 1

JOB NUMBER: 09-2080

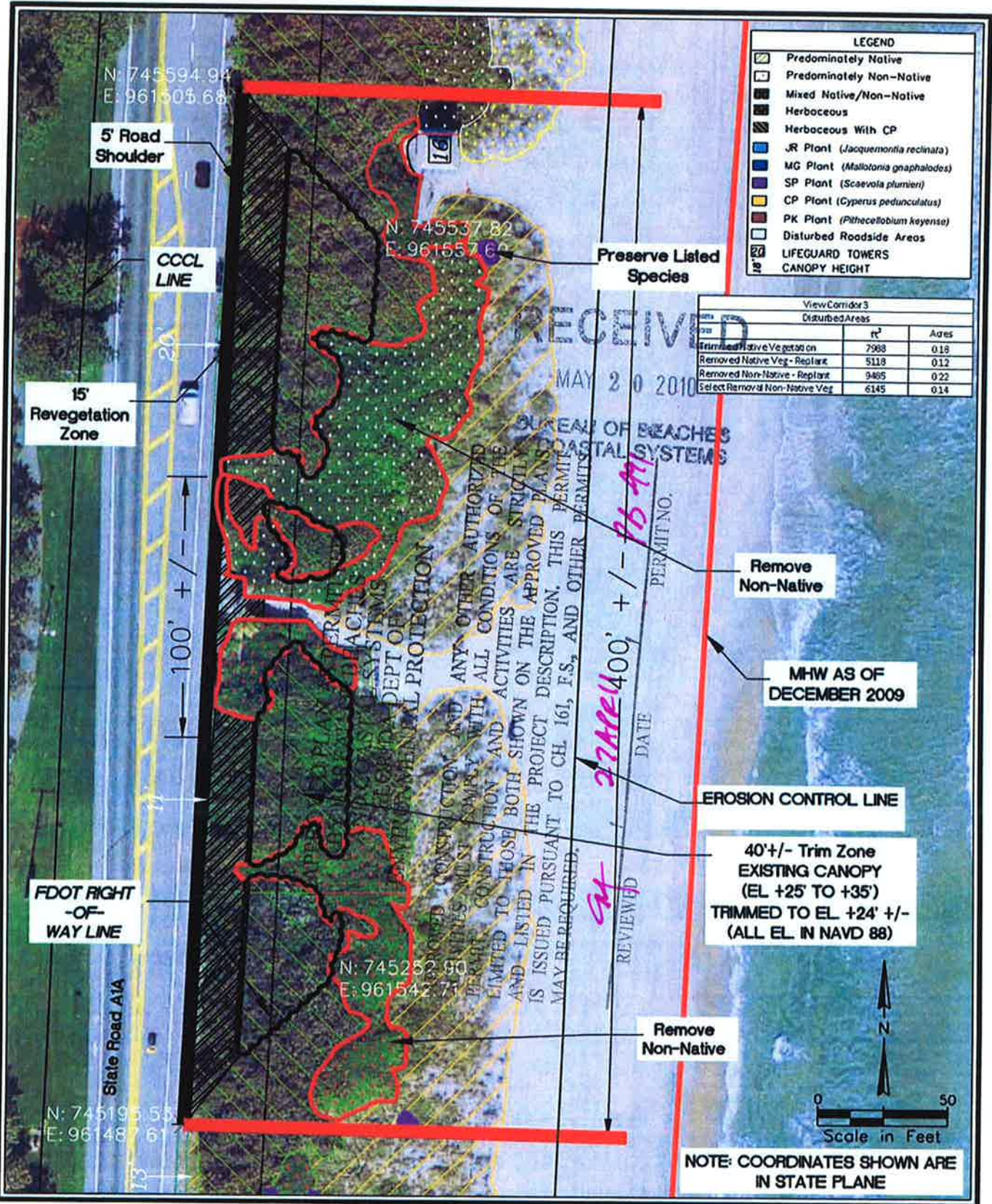
ISSUE DATE: 05-06-2010

Sheet Number 2 of 6

John C. Duchock

John C. Duchock
Professional Engineer
Florida License Number 60457

PB-991



ATM
APPLIED TECHNOLOGY & MANAGEMENT

400 S. Australian Ave., Suite 300
West Palm Beach, FL 33401
Certificate of Authorization #4669

City of Boca Raton, FL
Spanish River Park

Dune Vegetation Management Plan
View Corridor 3

JOB NUMBER: 09-2080

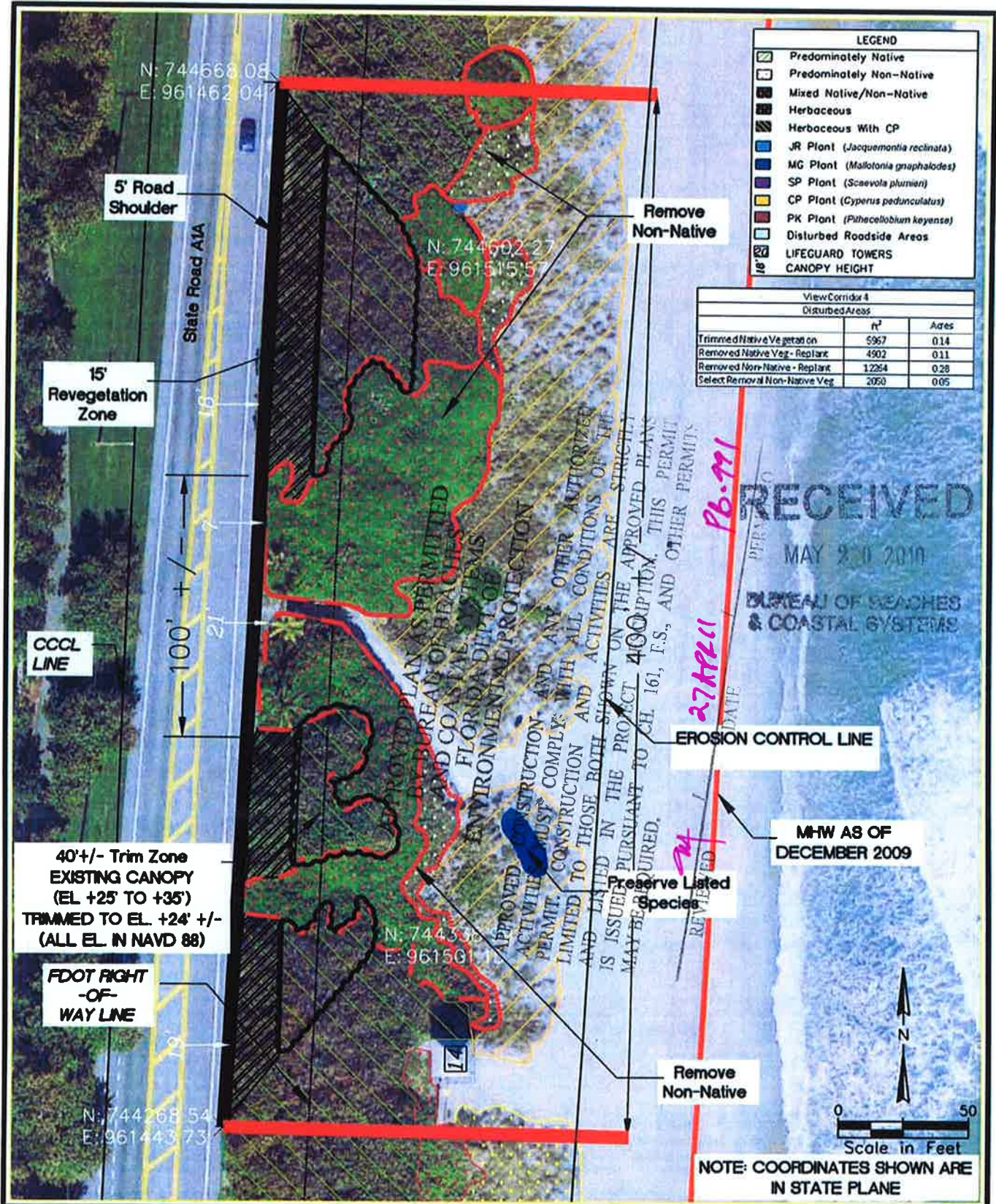
ISSUE DATE: 05-06-2010

Sheet Number 4 of 6

[Signature]

John C. Duchock
Professional Engineer
Florida License Number 80457

PB-991



LEGEND

- Predominately Native
- Predominately Non-Native
- Mixed Native/Non-Native
- Herbaceous
- Herbaceous With CP
- JR Plant (*Jacquerontia reclinata*)
- MG Plant (*Mallotia gnaphalodes*)
- SP Plant (*Scaevola plumieri*)
- CP Plant (*Cyperus pedunculatus*)
- PK Plant (*Pithecolobium keyense*)
- Disturbed Roadside Areas
- LIFEGUARD TOWERS
- CANOPY HEIGHT

**View Corridor 4
Disturbed Areas**

	ft ²	Acres
Trimmed Native Vegetation	5967	0.14
Removed Native Veg - Replant	4902	0.11
Removed Non-Native - Replant	12264	0.28
Select Removal Non-Native Veg	2060	0.05

RECEIVED
MAY 9 2010
BUREAU OF BEACHES & COASTAL SYSTEMS

APPROVED CONSTRUCTION AND ANY OTHER AUTHORIZED
 PERMIT CONSTRUCTION WITH ALL CONDITIONS OF THE
 PERMIT LIMITED TO THOSE BOTH SHOWN ON THE APPROVED PLANS
 AND LISTED IN THE PROJECT DESCRIPTION. THIS PERMIT
 IS ISSUED PURSUANT TO CH. 161, F.S., AND OTHER PERMITS
 MAY BE REQUIRED.

**40'+/- Trim Zone
EXISTING CANOPY
(EL +25' to +35')
TRIMMED TO EL. +24' +/-
(ALL EL. IN NAVD 88)**

**FDOT RIGHT
-OF-
WAY LINE**

EROSION CONTROL LINE

**MHW AS OF
DECEMBER 2009**

**Preserve Listed
Species**

**Remove
Non-Native**

**NOTE: COORDINATES SHOWN ARE
IN STATE PLANE**

ATM
APPLIED TECHNOLOGY & MANAGEMENT

400 S. Australian Ave., Suite 300
West Palm Beach, FL 33401
Certificate of Authorization #4669

City of Boca Raton, FL
Spanish River Park

**Dune Vegetation Management Plan
View Corridor 4**

JOB NUMBER: 09-2080

ISSUE DATE: 05-09-2010

Sheet Number 5 of 8

John C. Duchock

John C. Duchock
Professional Engineer
Florida License Number 60457

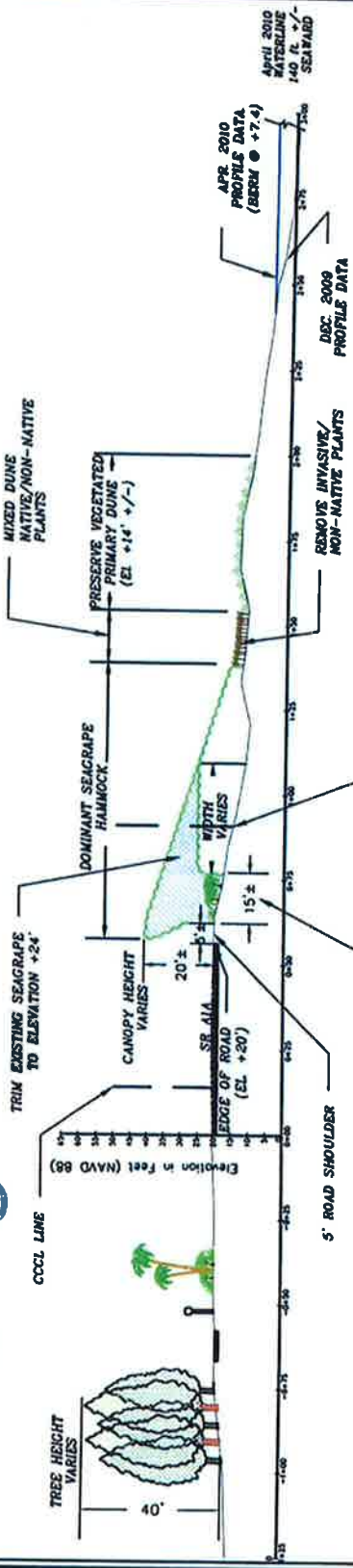
PB-991

RECEIVED

MAY 20 2010

BUREAU OF BEACHES & COASTAL SYSTEMS

TYPICAL DUNE PROFILE (LOOKING NORTH)



APPROVED PLAN AS PERMITTED BY BUREAU OF BEACHES AND COASTAL SYSTEMS FLORIDA DEPT OF ENVIRONMENTAL PROTECTION

APPROVED CONSTRUCTION AND ANY OTHER AUTHORIZED ACTIVITIES MUST COMPLY WITH ALL CONDITIONS OF THE PERMIT. CONSTRUCTION AND ACTIVITIES ARE STRICTLY LIMITED TO THOSE BOTH SHOWN ON THE APPROVED PLAN AND LISTED IN THE PROJECT DESCRIPTION. THIS PERMIT IS ISSUED PURSUANT TO CH 161, F.S., AND OTHER PERMIT MAY BE REQUIRED.

NOTES: NON-NATIVE PLANTS WITHIN DUNE SYSTEM TO BE REMOVED AND REPLACED WITH NATIVE DUNE SPECIES. THREATENED/ENDANGERED PLANTS TO BE PROTECTED/PRESERVED AND LISTED IN THE PROJECT DESCRIPTION. REFER TO PROPOSED PLANT SPECIES LIST. DATES OF SURVEYS: DECEMBER 09, 2009 SHOWN IN BLACK APRIL 22, 2010 SHOWN IN BLUE

REVIEWED / DATE / PERMIT NO.
 cmf / 87 APR 11 / PB-991

PB-991



City of Boca Raton, FL
Spanish River Park
Dune Vegetation Management Plan
Typical Profile

JOB NUMBER: 09-2080
ISSUE DATE: 05-06-2010
Sheet Number 6 of 6

John C. Duchock
John C. Duchock
Professional Engineer
Florida License Number 60457

FEB 01 2011

BUREAU OF BEACHES AND COASTAL SYSTEMS

CERTIFICATE OF AUTHORIZATION NO. 1337
KEITH and SCHMARS, P.A.
FLORIDA'S LOCAL FIRM



6500 NORTH ANDREWS AVE., FT. LAUDERDALE, FL 33309 • TEL.: (954) 776-1616

Applied Technology & Management, Inc.
400 South Australian Ave., Suite 300
Fort Lauderdale, Florida 33301
(954) 558-2041
Certificate of Authorization #4009

SPANISH RIVER PARK
DUNE PLANTING PLAN
VIEW CORRIDOR 2
CITY OF BOCA RATON, FLORIDA

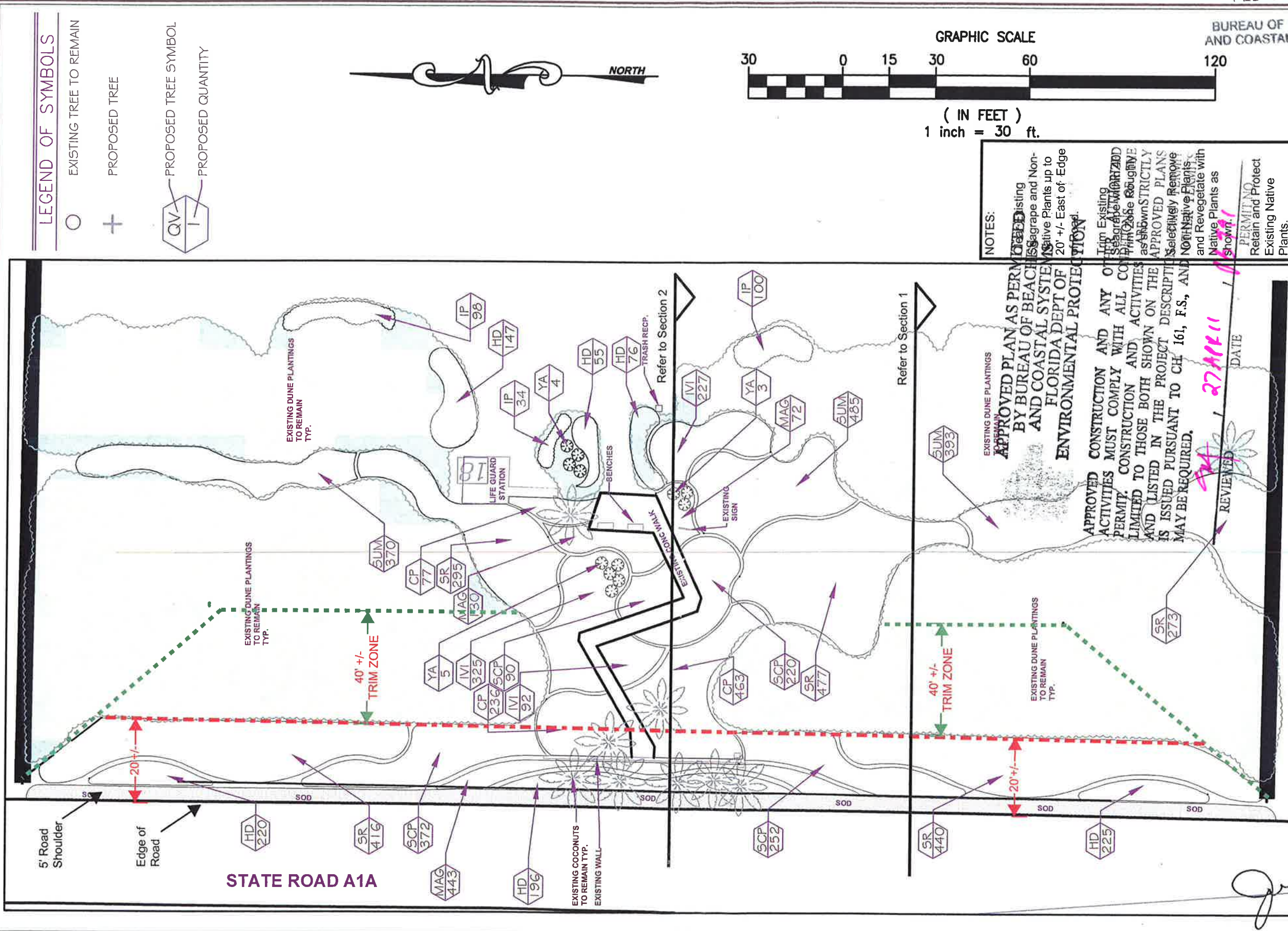
DESIGNED BY	DATE	APPROVED BY	DATE
DRAWN BY	DATE	CHECKED BY	DATE
SCALE	1"=30'	DATE	

REV.	DATE	BY	REVISIONS

DRAWING NUMBER
L-1
OF 3
SHEET

Dune Planting Plan Produced by Keith & Schmars, P.A.
Plans are representative only for permitting purposes and not intended for construction.

John W. ...
FL # 60457



NOTES:

APPROVED PLAN AS PERMITTED BY BUREAU OF BEACHES AND COASTAL SYSTEMS, FLORIDA DEPT OF ENVIRONMENTAL PROTECTION.

APPROVED CONSTRUCTION AND ANY OTHER ACTIVITIES MUST COMPLY WITH ALL CONDITIONS OF THE PERMIT. CONSTRUCTION AND ACTIVITIES LIMITED TO THOSE BOTH SHOWN ON THE PLAN AND LISTED IN THE PROJECT DESCRIPTION IS ISSUED PURSUANT TO CH 161, F.S., AND MAY BE REQUIRED.

Trim Existing Non-Native Plants up to 20' +/- East of Edge of Road.

Trim Existing Non-Native Plants as Shown on Approved Plans.

Native Plants as Shown on Approved Plans.

PERMIT NO. 1337

Retain and Protect Existing Native Plants.

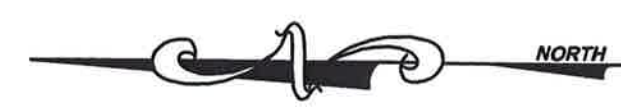
LEGEND OF SYMBOLS

○ EXISTING TREE TO REMAIN

+ PROPOSED TREE

QV PROPOSED TREE SYMBOL

I PROPOSED QUANTITY



(IN FEET)
1 inch = 30 ft.

PB991

RECEIVED

FEB 01 2011

BUREAU OF BEACHES AND COASTAL SYSTEMS

CERTIFICATE OF AUTHORIZATION NO. 187
KEITH and SCHNARS, P.A.
FLORIDA'S LOCAL FIRM
 6500 NORTH ANDREWS AVE., FT. LAUDERDALE, FL 33309 • TEL.: (954) 776-1610



KEY	DESCRIPTION	COMMON NAME	MINIMUM INSTALLED SIZE SPECIFICATIONS	CONTRACTOR REQUIRED PRUNING	OC SPACING (IN)	UNIT	ORIG.
SOD	PERFORMANCE TURF	PASPALUM NOTATUM (BAHIA)				SY	220
						LS	
CP	CROTON PUNCTATUS	BEACH CROTON	1G 8IN HT X 12IN SPR	NATURAL	18 IN OC	EA	776
HD	HELIANTHUS DEBILIS	DUNE SUNFLOWER	1 G 8IN HT X 12IN SPR	NATURAL	18 IN OC	EA	919
IP	IPOMOEA PES-CAPRAE	RAILROAD VINE	1 G 8 IN HT X 12 IN SPR	NATURAL	18 IN OC	EA	232
IVI	IVA IMBRICATA	BEACH ELDER	1 G 16 IN HT X 12 IN SPR	NATURAL	18 IN OC	EA	644
MAG	MALLOTONIA GNAPHALODES	SEA LAVENDER	1 G 10 IN HT X 10 IN SPR	NATURAL	18 IN OC	EA	645
SCP	SCAEVOLA PLUMIERI	INKBERRY	1 G 10 IN HT X 12 IN SPR	NATURAL	18 IN OC	EA	934
SR	SERENOA REPENS	SAW PALMETTO	3 G 16 IN HT X 16 IN SPR	NATURAL	24 IN OC	EA	1,901
SUM	SURIANA MARITIMA	BAY CEDAR	3 G 18 IN HT X 18 IN SPR	NATURAL	18 IN OC	EA	1,248
YA	YUCCA ALOIFOLIA	SPANISH BAYONET	7 G 36 IN HT X 20 IN SPR	NATURAL	18 IN OC	EA	12

APPROVED PLAN IS LIMITED BY BUREAU OF BEACHES AND COASTAL SYSTEMS
 FLORIDA DEPT OF ENVIRONMENTAL PROTECTION

APPROVED CONSTRUCTION AND ANY OTHER AUTHORIZED ACTIVITIES MUST COMPLY WITH ALL CONDITIONS OF THE PERMIT. CONSTRUCTION AND ACTIVITIES ARE STRICTLY LIMITED TO THOSE BOTH SHOWN ON THE APPROVED PLANS AND LISTED IN THE PROJECT DESCRIPTION. THIS PERMIT IS ISSUED PURSUANT TO CH. 161, F.S., AND OTHER PERMITS MAY BE REQUIRED.

QA REVIEWED 27 APR 11 DATE 16-991 PERMIT NO.

Dune Planting Plan Produced by Keith & Schnars, P.A.
 Plans are representative only for permitting purposes and not intended for construction.

APPLIED TECHNOLOGY & MANAGEMENT, INC.
 400 South Australian Ave., Suite 300
 West Palm Beach, Florida 33411
 (561) 840-0000
 Certificate of Authorization #4809

SPANISH RIVER PARK
 CITY OF BOCA RATON, FLORIDA

PLANT LIST

DRAWING NUMBER
 L-2
 SHEET 2 OF 3

John
 PL # 60457

PB991

KEY	DESCRIPTION	COMMON NAME	MINIMUM INSTALLED SIZE SPECIFICATIONS	CONTRACTOR REQUIRED PRUNING	OC SPACING (IN)	UNIT	ORIG.
SOD	PERFORMANCE TURF	PASPALUM NOTATUM (BAHIA)				SY	220
CP	CROTON PUNCTATUS	BEACH CROTON	1G 8IN HT X 12IN SPR	NATURAL	18 IN OC	EA	776
HD	HELIANTHUS DEBILIS	DUNE SUNFLOWER	1G 8IN HT X 12IN SPR	NATURAL	18 IN OC	EA	919
IP	IPOMOEA PES-CAPRAE	RAILROAD VINE	1G 8 IN HT X 12 IN SPR	NATURAL	18 IN OC	EA	232
IV	IVA IMBRICATA	BEACH ELDER	1G 16 IN HT X 12 IN SPR	NATURAL	18 IN OC	EA	644
MAG	MALLOTOMA GNAPHALODES	SEA LAVENDER	1G 10 IN HT X 10 IN SPR	NATURAL	18 IN OC	EA	645
SCP	SCAEVOLA PLUMIERI	INKBERRY	1G 10 IN HT X 12 IN SPR	NATURAL	18 IN OC	EA	934
SR	SERENOA REPENS	SAW PALMETTO	3G 16 IN HT X 16 IN SPR	NATURAL	24 IN OC	EA	1,901
SUM	SURIANA MARITIMA	BAY CEDAR	3G 18 IN HT X 18 IN SPR	NATURAL	18 IN OC	EA	1,248
YA	YUCCA ALOIFOLIA	SPANISH BAYONET	7G 36 IN HT X 20 IN SPR	NATURAL	SHOWN	EA	12

APPROVED PLAN AS PERMITTED
 BY BUREAU OF BEACHES
 AND COASTAL SYSTEMS
 FLORIDA DEPT OF
 ENVIRONMENTAL PROTECTION

APPROVED CONSTRUCTION AND ANY OTHER AUTHORIZED ACTIVITIES MUST COMPLY WITH ALL CONDITIONS OF THE PERMIT. CONSTRUCTION AND ACTIVITIES ARE STRICTLY LIMITED TO THOSE BOTH SHOWN ON THE APPROVED PLANS AND LISTED IN THE PROJECT DESCRIPTION. THIS PERMIT IS ISSUED PURSUANT TO CH. 161, F.S., AND OTHER PERMITS MAY BE REQUIRED.

REVIEWED cm / 27Apr / 1899 DATE PERMIT NO.