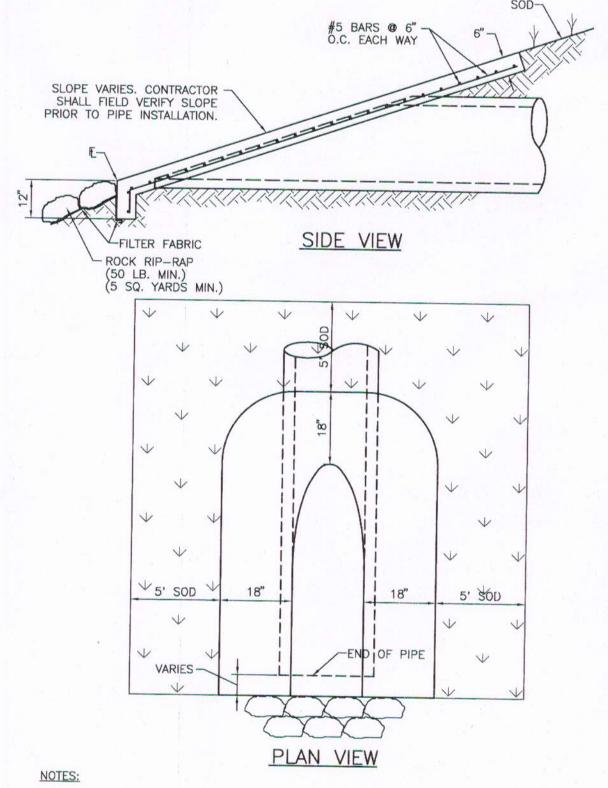


TYPICAL WCr-SM TO EXISTING DITCH
SPOIL REMOVAL DETAIL
SECTION R-R



1. CONCRETE SHALL BE 3000 P.S.I. @ 28 DAYS

2. CHAMFER ALL EXPOSED EDGES 3/4".

3. RIP-RAP SHALL BE SUPPLIED AND CONSTRUCTED AS DEFINED IN THE F.D.O.T. SPECIFICATIONS SEC. 530, "RIP-RAP", SPECIFICALLY SEC. 530-3.1 OR SEC. 530-3.3 "CONSTRUCTION METHODS" 5 SY. RIP-RAP AND FILTER CLOTH TO BE INCLUDED IN THE UNIT PRICE OF THE MITERED END SECTION. IF ADDITIONAL RIP-RAP (> 5 SY.) IS REQUIRED AND DIRECTED, IT SHALL BE PAID FOR ON A PER YARD BASIS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

4. FILTER FABRIC SHALL BE SUPPLIED AND CONSTRUCTED AS DEFINED IN THE F.D.O.T. SPECIFICATIONS SEC. 514, PLASTIC FILTER FABRIC, SPECIFICALLY SEC. 514-3.4 RIPRAP, INCLUDED IN UNIT COST OF MITERED END SECTION.

MITERED END SECTION

					ACTIVITY	INITIALS/EMP. NO.	DATE
					DESIGNED BY:		
					DRAWN BY:	ATO/89520	06/23/11
					CHECKED BY:		
AREV NO.	REVISION				CONTRACT ADMIN. BY:		
A115-1 1403	NEVISION -	STAC	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:		

WilsonMiller S Stantec 1777 Tamiami Trail, Suite 206, Port Charlotte, Florida 33948 800.643.4336 • 941.255.0655 • F941.255.1755

Certificate of Authorization #43 • FL Lic. # LC-C000170 • stantec.com WilsonMiller, Inc. became a wholly-owned subsidiary of Stantec Consulting Services Inc. on July 23, 2010 CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS PROJECT:

JUNE 2011 ORIZONTAL SCALE: AS SHOWN VERTICAL SCALE: AS SHOWN PERICO PRESERVE RESTORATION SEC: TWP: RGE: 22 26.27 34S 16E

CONSTRUCTION DETAILS

Lichard R. QUINCE SELLERS, P.E. FLORIDA LIGENSE NO. 49374 INDEX NUMBER: D-215500132-010

GRATE -#4 REBARS @ 11" O.C. EW

NOTES 1. INLET SHALL HAVE 3" DIA. HOLE AT THE BOTTOM OF THE BOX CLEAR OF THE PIPE CONSTRUCTION, TO BE PLUGGED WHEN CONCRETE INVERT

FORMED. 2. U.S.F. GRATE NO. 6606 (STEEL)

3. FRAME & GRATE SHALL BE OF STEEL CONSTRUCTION COATED WITH 2 APPLICATIONS OF BLACK ENAMEL, 4.0 MILS DRY FILM THICKNESS EACH COAT, 8 MILS TOTAL. COATING SHALL MEET OR EXCEED FDOT SPECIFICATION 971-8. CONTRACTOR SHALL APPLY ONE FIELD COAT TO ANY BARE AREAS AS DETERMINED BY ENGINEER.

4. 3/4" CHAMFER ALL EXPOSED EDGES. 5. 3000 PSI CONCRETE @ 28 DAYS SHALL BE USED THROUGHOUT.

6. POURED CONCRETE INVERT AFTER INLET & PIPE PLACED IN GROUND, 3000 PSI @ 28 DAYS.

7. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET WITH DEFORMATIONS CONFORMING TO ASTM A-615-76A. ALL STEEL SHALL BE 2" CLEAR UNLESS OTHERWISE NOTED.

> PRINTED NOV 1 1 2011

> > Stantec

F.D.O.T. TYPE "C" INLET

215500132 320

SITE ID A B* S1 ±2.5 ±0.8 S2 ±4.5 ±0.8

S3 ±4.1 ±0.9

S4 ±4.4 ±1.0 S5 ±4.1 ±1.0 S6 ±3.6 ±0.3

S7 ±4.2 ±1.0

EXISTING TOE OF BERM

TOE OF BERM

CENTERLINE OF

EXISTING MANGROVE DITCH

SECTION VIEW

PLAN VIEW

TYPICAL SPOIL BERM REMOVAL DETAIL

TOE OF BERM

TOE OF BERM

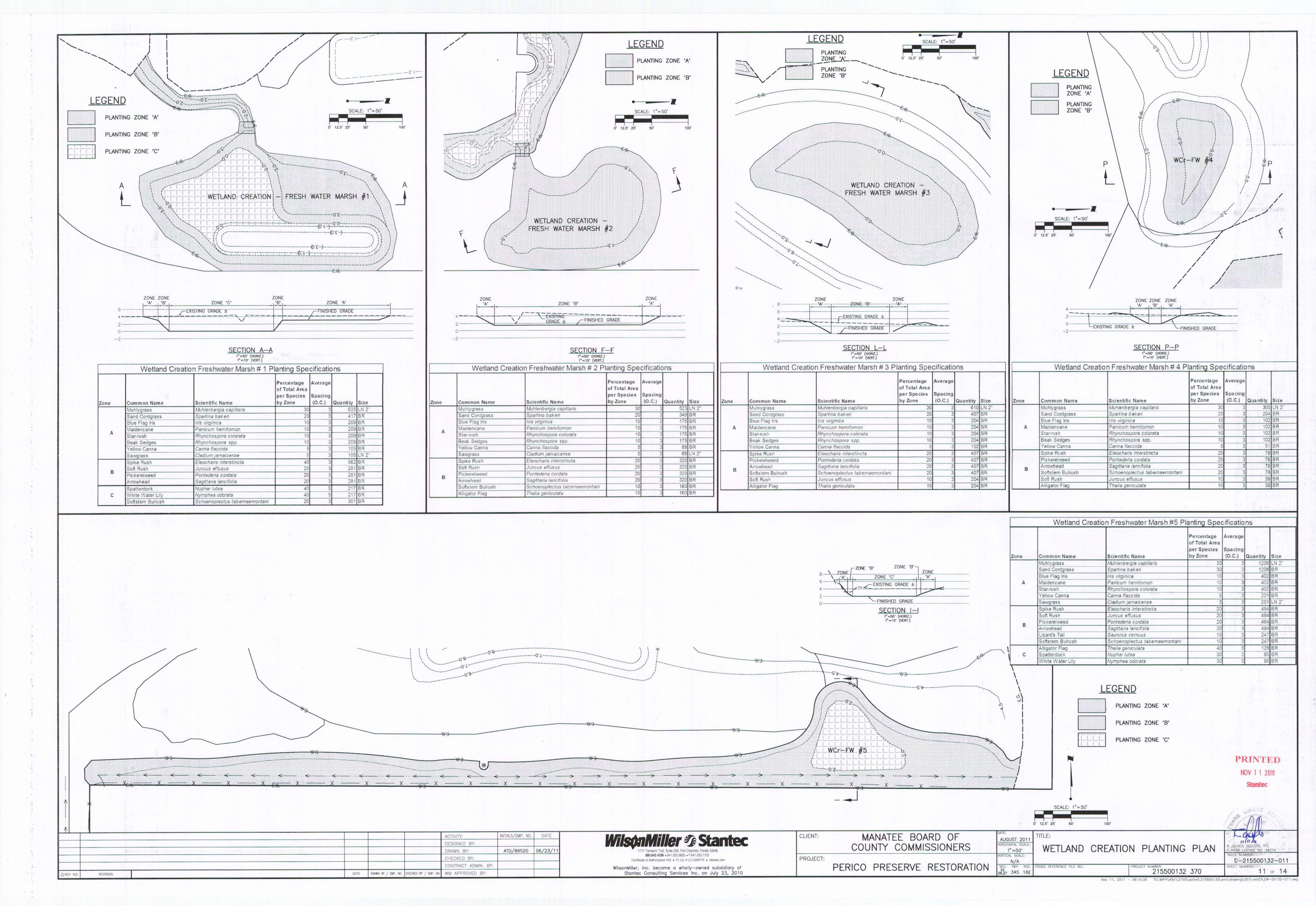
EXISTING TOP OF BERM

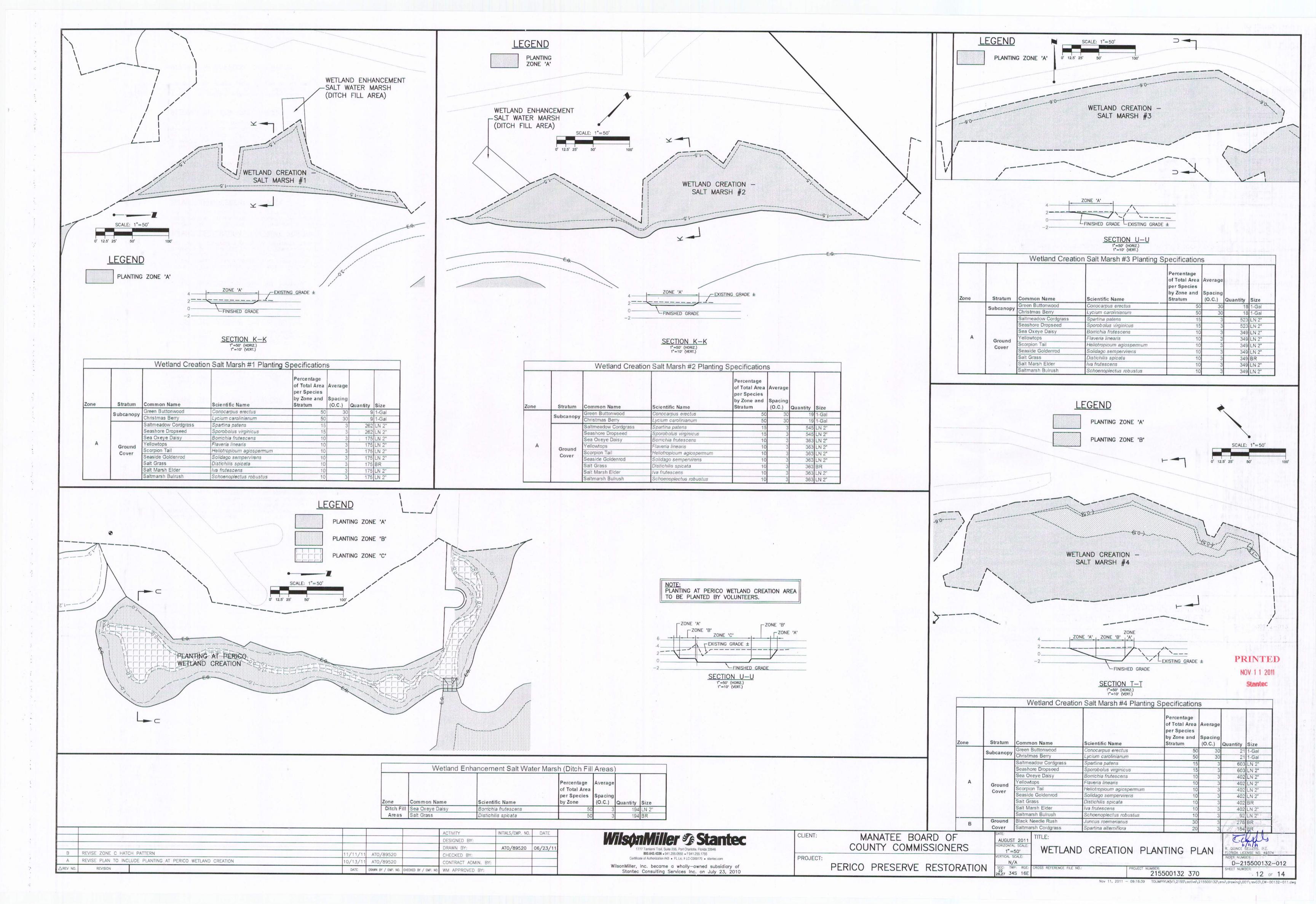
- TURBIDITY BARRIER

NOTES: * ADJACENT EXISTING WETLAND APPROXIMATE NATURAL GROUND ELEVATION.

LOCATION FOR SPOIL REMOVAL SITE TO BE FIELD LOCATED BY PROJECT ECOLOGIST.

ELEVATIONS SHOWN IN TABLE ARE APPROXIMATE AND WILL NEED TO BE FIELD VERIFIED.





PERICO PRESERVE RESTORATION WORK AREA DESCRIPTIONS

SPOIL MAINTENANCE (WITHIN EXISTING WETLAND)

THIS WORK AREA IS COMPOSED OF AGRICULTURAL AND MOSQUITO DITCHES AND THEIR ASSOCIATED SPOIL MOUNDS THAT OCCUR WITHIN THE EXISTING ONSITE WETLAND HABITAT. NUISANCE AND EXOTIC SPECIES SUCH AS AUSTRALIAN PINE TREES (Casuarina spp.), BRAZILIAN PEPPER TREES (Schinus terebinthifolius), CARROTWOOD (Cupaniopsis anacardiodes), AND SILK OAK (Grevillea robusta) WERE TREATED WITH HERBICIDES USING A BASAL BARK APPLICATION IN 2010. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC SPECIES. EARTH MOVING PROPOSED IN THIS AREA CONSISTS OF SPOIL CUT THROUGH AREAS S1-S7 (SHEET 10).

EXISTING WETLAND (INCLUDES PORTIONS OF PERICO BAYOU)

THIS WORK AREA IS DOMINATED BY MANGROVE SWAMP WITH SOME AREAS OF SALT MARSH AND SHALLOW OPEN WATERS ASSOCIATED WITH PERICO BAYOU. WORK PROPOSED WITHIN THE EXISTING WETLAND CONSISTS OF SPOIL MAINTENANCE (DESCRIBED ABOVE), SALT MARSH ENHANCEMENT (DESCRIBED BELOW), SALT MARSH RESTORATION (DESCRIBED BELOW), AND THE RIM DITCH SPOIL REMOVAL AREAS R1-R4 (SHEET 10).

TEMPORARY WETLAND IMPACTS WILL OCCUR DURING THE CONSTRUCTION OF SPOIL CUT THROUGH AREAS S1-S7 (SHEET 10). THE EXACT LOCATION OF CUTS WILL BE FIELD DETERMINED BY THE PROJECT ECOLOGIST TO MINIMIZE IMPACTS TO THE EXTENT POSSIBLE. DESTRUCTION OF EXISTING VEGETATION WILL BE MINIMIZED TO THE EXTENT POSSIBLE AND ANY DISTURBED SOIL WILL BE RETURNED TO EXISTING GRADE. TEMPORARY IMPACT AREAS WILL BE REPLANTED WITH APPROPRIATE VEGETATION AS DETERMINED NECESSARY BY THE PROJECT ECOLOGIST. ALL TEMPORARY WETLAND IMPACTS WILL BE SUPERVISED BY THE PROJECT ECOLOGIST.

WETLAND ENHANCEMENT-SALT MARSH

THIS WORK AREA IS COMPRISED OF TWO PORTIONS OF EXISTING HIGH MARSH. THE FIRST PORTION OF EXISTING SALT MARSH TO BE ENHANCED IS LOCATED WITHIN THE MANGROVE SWAMP (SHEET 5) AND CONTAINS SCATTERED AUSTRALIAN PINE TREES THAT WERE TREATED WITH HERBICIDE IN 2010. THIS AREA WILL UNDERGO MAINTENANCE TARGETING NUISANCE AND EXOTIC VEGETATION. NO EARTHMOVING OR USE OF HEAVY EQUIPMENT IS PROPOSED IN THIS AREA.

THE SECOND PORTION OF SALT MARSH TO BE ENHANCED IS LOCATED ADJACENT TO THE NORTHERN EXTENT OF THE EXISTING CONTIGUOUS UPLAND (SHEETS 6 AND 7). THE MAJORITY OF THIS AREA IS AN EXISTING FARM ROAD WHERE PAST ACTIVITIES HAVE RUTTED AND COMPACTED THE SOIL. THIS AREA WILL UNDERGO MINOR RE—GRADING/SMOOTHING TO REMOVE RUTS FOLLOWED BY VEGETATIVE MAINTENANCE. RE—VEGETATION WILL BE ACCOMPLISHED BY NATURAL RECRUITMENT OF DESIRABLE WETLAND SPECIES. CROSSING WITH HEAVY EQUIPMENT WILL BE NECESSARY TO FACILITATE THE CREATION OF SALT MARSH # 3 AND SALT MARSH # 4 (SHEETS 6 AND 7). MINOR TEMPORARY WETLAND IMPACTS ASSOCIATED WITH CROSSING POINTS WILL BE FIELD LOCATED BY THE PROJECT ECOLOGIST IN AREAS OF LOW QUALITY VEGETATION AND CONTRACTOR WILL RE—GRADE/SMOOTH CROSSING POINTS POST CONSTRUCTION. CROSSING POINTS WILL BE REPLANTED WITH APPROPRIATE VEGETATION AS DETERMINED NECESSARY BY THE PROJECT ECOLOGIST.

WETLAND RESTORATION-SALT MARSH

THIS AREA CONSISTS OF TWO DITCHES AND ASSOCIATED SPOIL LOCATED WITHIN THE EXISTING HIGH MARSH HABITAT ON THE WEST SIDE OF THE EXISTING CONTIGUOUS UPLAND AREA (SHEET 6). WORK IN THIS AREA CONSISTS OF FILLING THE EXISTING DITCHES THAT GO THROUGH THE SALT MARSH USING THE ADJACENT SPOIL FOR FILL TO MATCH THE GRADE OF THE ADJACENT SALT MARSH. AREAS OF SOIL DISTURBANCE WILL BE REPLANTED. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

WETLAND CREATION-SALT MARSH

THIS AREA IS CURRENTLY DOMINATED BY OPEN PASTURE AND WILL BE CONVERTED TO FOUR SALT MARSH WETLANDS. SALT MARSHES 1 AND 2 (SHEET 6), TO BE LOCATED ALONG THE WEST EXTENT OF THE EXISTING CONTIGUOUS UPLAND AREA, ARE DOMINATED BY OPEN PASTURE. SALT MARSH 3 AND 4 (SHEETS 6 AND 7), TO BE LOCATED ALONG THE NORTH EXTENT OF THE EXISTING CONTIGUOUS UPLAND AREA, ARE DOMINATED BY AUSTRALIAN PINE STUMPS WHICH WILL BE REMOVED FROM THE SITE. THE SALT MARSH CREATION AREAS WILL BE EXCAVATED AND PLANTED WITH APPROPRIATE VEGETATION AND WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

WETLAND CREATION-FRESH WATER MARSH

THIS WORK AREA IS CURRENTLY DOMINATED BY RELATIVELY OPEN PASTURE AND CONSISTS OF FIVE UPLAND AREAS THAT WILL BE CONVERTED TO FRESH WATER MARSH. THESE AREAS WILL BE EXCAVATED AND PLANTED WITH FRESH WATER MARSH VEGETATION. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

UPLAND ENHANCEMENT-HAMMOCK

THIS AREA IS CURRENTLY DOMINATED BY DESIRABLE VEGETATION. NO EARTHWORK IS PROPOSED. NUISANCE AND EXOTIC SPECIES SUCH AS AUSTRALIAN PINE TREES, BRAZILIAN PEPPER TREES, CARROTWOOD, AND STRAWBERRY GUAVA (Psidium cattleianum) WERE TREATED WITH HERBICIDES USING A BASAL BARK APPLICATION IN 2010. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

UPLAND RESTORATION-VEGETATIVE SCREEN

THIS AREA IS CURRENTLY DOMINATED BY RELATIVELY OPEN PASTURE AND WILL BE SEEDED WITH NATIVE GROUND COVER SPECIES WHERE FEASIBLE AS DETERMINED BY THE PROJECT ECOLOGIST, FOLLOWED BY PLANTING OF NURSERY GROWN MATERIAL. TREE SIZE AND PLANTING DENSITY IN THIS AREA IS HIGHER THAN OTHER AREAS WITH THE GOAL OF CREATING A VISUAL BUFFER BETWEEN PERICO PRESERVE AND THE ADJACENT RESIDENTIAL DEVELOPMENT. THIS AREA CONTAINS NUMEROUS SMALL CABBAGE PALMS (Sabal palmetto) AND OTHER DESIRABLE TREES WHICH ARE TO REMAIN. THE ONLY GRADING PROPOSED IN THIS AREA IS THE FILLING OF OTHER SURFACE WATERS. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

UPLAND RESTORATION-MARITIME HAMMOCK

THIS AREA IS CURRENTLY DOMINATED BY OPEN PASTURE. IT WILL BE SEEDED WITH NATIVE GROUND COVER SPECIES WHERE FEASIBLE AS DETERMINED BY THE PROJECT ECOLOGIST, FOLLOWED BY PLANTING OF NURSERY GROWN MATERIAL. THE ONLY GRADING PROPOSED IN THIS AREA IS THE FILLING OF OTHER SURFACE WATERS. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

UPLAND RESTORATION-COASTAL STRAND HAMMOCK

THIS AREA IS CURRENTLY DOMINATED BY OPEN PASTURE. IT WILL BE SEEDED WITH NATIVE GROUND COVER SPECIES WHERE FEASIBLE AS DETERMINED BY THE PROJECT ECOLOGIST, FOLLOWED BY PLANTING OF NURSERY GROWN MATERIAL. THE ONLY GRADING PROPOSED IN THIS AREA IS THE FILLING OF OTHER SURFACE WATERS. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

UPLAND RESTORATION-FLATWOODS/SALT MARSH TRANSITION

THIS AREA IS CURRENTLY DOMINATED BY OPEN PASTURE. IT WILL BE SEEDED WITH NATIVE GROUND COVER SPECIES FOLLOWED BY PLANTING OF NURSERY GROWN MATERIAL. THE ONLY GRADING PROPOSED IN THIS AREA IS THE FILLING OF OTHER SURFACE WATERS. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

UPLAND RESTORATION-FLATWOODS

THIS AREA IS CURRENTLY DOMINATED BY OPEN PASTURE. IT WILL BE SEEDED WITH NATIVE GROUND COVER SPECIES FOLLOWED BY PLANTING OF NURSERY GROWN MATERIAL. SOME OF THIS AREA WILL BE RE-GRADED TO INCREASE ELEVATIONS INCLUDING FILLING OF OTHER SURFACE WATERS. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

UPLAND RESTORATION-SCRUB

THIS AREA IS CURRENTLY DOMINATED BY OPEN PASTURE. IT WILL BE SEEDED WITH NATIVE GROUND COVER SPECIES FOLLOWED BY PLANTING OF NURSERY GROWN MATERIAL. ALL OF THIS AREA WILL BE RE-GRADED TO INCREASE ELEVATIONS INCLUDING FILLING OF OTHER SURFACE WATERS. THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC VEGETATION.

STAGING AREA

REVISION

THIS AREA IS CURRENTLY DOMINATED BY OPEN PASTURE. SOME OF THIS AREA WILL BE RE-GRADED TO CREATE A DRAINAGE BREAK AND A DRAINAGE SWALE (SHEET 5). THE DRAINAGE SWALE SHALL BE SODDED WITH SEASHORE PASPALUM (Paspalum vaginatum). OTHER SURFACE WATERS WITHIN THIS AREA WILL BE FILLED AND PIPED TO MAINTAIN CONVEYANCE OF STORM WATER (SHEET 5). A CONSTRUCTION ENTRANCE WILL BE INSTALLED IN THIS AREA (SHEET 14). THIS AREA WILL BE MAINTAINED BY TARGETING NUISANCE AND EXOTIC TREES AND SHRUBS ONLY. EXISTING GROUND COVER IS TO REMAIN. PRIMARY SPECIES TO BE REMOVED IN THIS AREA ARE INDIAN ROSEWOOD (Dalbergia sissoo) AND INDIAN LAUREL (Ficus microcarpa) WHICH ARE CONCENTRATED ON THE SOUTHERNMOST PORTION OF THIS WORK AREA.

UPLAND RESTORATION PLANTING TABLES

	Upland Restor	ation Vegetative Scree	en Planting Spec	ificatio	ns	·
Stratum	Common Name	Scientific Name	Percentage of Total Area per Species by Stratum	Average Spacing (O.C.)		Size
Ground	Wet Flatwoods Seed Mix	Numerous species	100	NΔ	42	Lbs. Seed
Cover	Florida Privet	Forestiera segregata	40			1-Gal
Shrubs	Wax Myrtle	Myrica cerifera	30			1-Gal
Omuba	Mariberry	Ardisia escallonioides	30	~~~~~		1-Gal
Trees	Live Oak	Quercus virginiana	100	25	196	7-Gal

Stratum	Upland Resto	Scientific Name	Percentage of Total Area per Species by Stratum	Average Spacing (O.C.)	Quantity	Charles and the latest and the lates
	Wet Flatwoods Seed Mix	Numerous species	100	NA		Lbs. Seed
	Elloitt's Lovegrass	Eragrostis elliottii	20	Control to the Control of the Contro		LN-4"
	Purple Lovegrass	Eragrostis spectabilis	20			LN-4"
	Leavenworth's Tickseed	Coreopsis laevenworthii	15			LN-4"
	Blanket Flower	Gaillardia pulchella	5	7.5		LN-4"
	West Coast Dune Sunflower	Helianthus debilis subsp. vestitus	5	7.5		LN-4"
Ground	Slender Gayfeather	Liatris gracilis	5	7.5	368	LN-4"
	Gopher Apple	Lincia michauxii	5	7.5		LN-4"
Cover	Spotted Beebalm	Monarda punctata	5	7.5	368	LN-4"
	Blackeyed Susan	Rudbeckia hirta	5	7.5	368	LN-4"
	Shiny Blueberry	Vaccinium myrsinites	5	7.5	368	LN-4"
	Florida Coontie	Zamia pumila	5	7.5	368	LN-4"
	Lopsided Indian Grass	Sorghastrum secundum	2	7.5	147	LN-4"
	Forked Bluecuris	Trichostema dichotomum	2	7.5	147	LN-4"
	Button Snakeroot	Eryngium yuccafolium	1	7.5	74	LN-4"
	Saw Palmetto	Serenoa repens	40	20	413	3-Gai
	Fetterbush	Lyonia lucida	20	20	207	1-Gal
	Galberry	llex opaca	15	20	155	1-Gal
Shrubs	Tar Flower	Bejaria racemosa	10	20	104	1-Gal
	Coral Bean	Erythrina herbacea	10	20	104	1-Gal
	Florida Privet	Forestiera segregata	4	20		1-Gal
	Longleaf pine	Pinus palustris	30	40	78	3-Gal
Trees	South Florida Slash Pine	Pinus elliottii var. densa	70	40	181	3-Gal

Stratum	Common Name	Scientific Name	Percentage of Total Area per Species by Stratum	Average Spacing (O.C.)		Size
	Wet Flatwoods Seed Mix	Numerous species	100	NA	34.4	Lbs. Seed
	Sand Cordgrass	Spartina bakeri	30	7.5	533	LN-4"
Ground	Muhlygrass	Muhlenbergia capillaris	30	7.5	533	LN-4"
Cover	Seaside Goldenrod	Solidago sempervirens	20	7.5	355	LN-4"
	Scorpion Tail	Heliotropioum agiospermum	10	7,5	178	LN-4"
	Fakahatchee grass	Tripsacum dactyloides	10	7.5	178	LN-4"
Trees	Cabbage Palm	Sabal palmetto	100	20	250	3-Gal/Tran

Stratum	Common Name	Scientific Name	Percentage of Total Area per Species by Stratum	Average Spacing (O.C.)		Size
	Wet Flatwoods Seed Mix	Numerous species	100	NA	11.7	Lbs. Seed
	Tampa Verbena	Glandularia tampensis	30	7.5	182	LN-4"
Ground	Seaside Goldenrod	Solidago sempervirens	30	7.5	182	LN-4"
Cover	Scorpion Tail	Heliotropioum agiospermum	20	7.5	121	LN-4"
	Blanket Flower	Gaillardia pulchella	10	7.5	61	LN-4"
	West Coast Dune Sunflower	Helianthus debilis subsp. vestitus	10	7.5	61	LN-4"
	Jamaica Caper	Capparis jamaicensis	10	20	. 9	1-Gal
	White Stopper	Eugenia axillaris	10	20	9	1-Gal
	Spanish Stopper	Eugenia foetidea	10	20	9	1-Gal
	Florida Privet	Forestiera segregata	- 10	20	9	1-Gal
	Tough Bumelia	Sideroxylon tenax	10	20	9	1-Gal
Shrubs	Necklace Pod	Sophora tomentosa var. truncata	10	20	9	1-Gal
	Spanish Bayonet	Yucca aloifolia	10	20	9	1-Gal
	Hercules Club	Zanthoxylum clava-herculis	10	20	9	1-Gal
	Wild Lime	Zanthoxylum fagara	10	20	9	1-Gal
	Florida Mayten	Maytenus phyllanthoides	5	20	5	1-Gal
	Catclaw Blackbeard	Pithecellobium unguis-cati	5	20	- 5	1-Gal
	Gumbo Limbo	Bursera simaruba	30	40	7	3-Gal
	Wild Banyan	Ficus citrifolia	30	40	7	3-Gal
Trees	Jamaica Caper	Capparis jamaicensis	20	40	5	3-Gal
	Seagrape	Coccoloba uvifera	10	40	3	3-Gal
	Cabbage Palm	Sabal palmetto	. 10	40	3	3-Gal

tratum	Common Name	Scientific Name	Percentage of Total Area per Species by Stratum	Average Spacing (O.C.)	Quantity	Size
	Wet Flatwoods Seed Mix	Numerous species	100	NA	56.7	Lbs. Seed
	Muhlygrass	Muhlenbergia capillaris	30	7.5	879	LN-4"
Ground Cover	Leavenworth's Tickseed	Coreopsis laevenworthii	20	7.5	586	LN-4"
	Elloitt's Lovegrass	Eragrostis elliottii	20	7.5	586	LN-4"
	Purple Lovegrass	Eragrostis spectabilis	20	7.5	586	LN-4"
	Blanket Flower	Gaillardia pulchella	5	7.5	147	LN-4"
	West Coast Dune Sunflower	Helianthus debilis subsp. vestitus	5	7.5	147	LN-4"
	Beauty Berry	Callicarpa americana	30	20	124	1-Gal
	Firebush	Hamelia patens	15	20	62	1-Gal
	Myrsine	Myrsine cubana	15	20	62	1-Gal
	Marlberry	Ardisia escallonioides	10	20	42	1-Gal
	Snowberry	Chiococca alba	10	20	42	1-Gal
	Florida Privet	Forestiera segregata	5	20	21	1-Gal
	Upland Cotton	Gossypium hirsutum	5	20	21	1-Gal
	Wild Coffee	Psychotria nervosa	5	20	21	1-Gal
	Wild Lime	Zanthoxylum fagara	5	20	21	1-Gal
***************************************	Live Oak	Quercus virginiana .	60	40	62	3-Gal
	Pignut Hickory	Carya glabra	10	40	11	3-Gal
Trees	Southern Red Cedar	Juniperus virginiana	10	40	2013/01/11	3-Gal
	Red Bay	Persea barbonia	10	40	7 3 7 8 1 1 1	3-Gal
*	Laurel Oak	Quercus laurifolia	10	40	11	3-Gal

	Upland Resto	ration Scrub Area #1 F	lanting Specifi	cations		
tratum	Common Name	Scientific Name	Percentage of Total Area per Species by Stratum	Average Spacing (O.C.)	Quantity	Size
······································	Avon Park Upland Seed Mix	Numerous species	100	NA	44.7	Lbs. Seed
Ground	Wiregrass	Aristida stricta	40	7.5	924	LN-2"
	Prickly Pear	Opuntia humifusa	20	7.5	462	LN-4"
	Narrowleaf Silkgrass	Pityopsis graminifolia	20	7.5	462	LN-4"
Cover	Shiny Blueberry	Vaccinium myrsinites	10	7.5	231	LN-4"
	Dwarf Live Oak	Quercus minima	5	7.5	116	1 Gal"
	Forked Bluecuris	Trichostema dichotomum	5	7.5	116	LN-4"
***************************************	Saw Palmetto	Serenoa repens	40	30	58	3-Gal
	Chapman Oak	Quercus chapmanii	20	30	29	1-Gal
Shrubs	Myrtle Oak	Quercus myrtifolia	20	30	29	1-Gal
	Tar Flower	Bejaria racemosa	10	30	15	1-Gal
	Coral Bean	Erythrina herbacea	10	30	15	1-Gal
-	Sand Live Oak	Quercus geminata	70	40	57	3-Gal
Trees	Longleaf pine	Pinus palustris	30	40	25	3-Gal

	Upland Resto	ration Scrub Area # 2 F	Planting Specif	ications	3	
Stratum	Common Name	Scientific Name	Percentage of Total Area per Species by Stratum	Average Spacing (O.C.)	Aug 1	Size
	Avon Park Upland Seed Mix	Numerous species	100	NA	9.15	Lbs. Seed
	Wiregrass	Aristida stricta	40	7.5	189	LN-2"
Cround	Prickly Pear	Opuntia humifusa	20	7.5	95	LN-4"
Ground	Narrowleaf Silkgrass	Pityopsis graminifolia	20	7.5	95	LN-4"
Cover	Shiny Blueberry	Vaccinium myrsinites	10	7.5	48	LN-4"
	Dwarf Live Oak	Quercus minima	5	7.5	24	1 Gal"
	Forked Bluecurls	Trichostema dichotomum	5	7.5	24	LN-4"
	Saw Palmetto	Serenoa repens	40	30	12	3-Gal
	Chapman Oak	Quercus chapmanii	20	30	6	1-Gal
Shrubs	Myrtle Oak	Quercus myrtifolia	20	30	6	1-Gal
	Tar Flower	Bejaria racemosa	10	30	3	1-Gal
	Coral Bean	Erythrina herbacea	10	30	3	1-Gal
T	Sand Pine	Pinus clausa	70	20	47	3-Gal
Trees	Sand Live Oak	Quercus geminata	30	40	5	3-Gal

NOV 1 1 2011

DATE DRAWN BY / EMP. NO. CHECKED BY / EMP. NO. WM APPROVED BY:

VilsonViller Stante

1777 Tamiami Trail, Suite 206, Port Charlotte, Florida 33948

800.643.4336 • 941.255.0655 • F 941.255.1755

INITIALS/EMP. NO. DATE

Certificate of Authorization #43 • FL Lic. # LC-C000170 • stantec.com

WilsonMiller, Inc. became a wholly—owned subsidiary of
Stantec Consulting Services Inc. on July 23, 2010

CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS

PROJECT:

COUNTY COMMISSIONERS

AUGUST 201
HORIZONTAL SCALE
1"=50'
VERTICAL SCALE:
N/A

PERICO PRESERVE RESTORATION
SEC: TWP: RC
22

PROJECT SPECIFICATIONS/UPLAND RESTORATION PLANTING TABLES

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R. QUINCE SELLERS, P.E.
FLORIDA LICENSE NO: 49374
NDEX. NUMBER:
D-215500132-013
SHEET NUMBER:
13 OF 14

