

received 6/26

CONCEPTUAL PLANS FOR CALUSA GREEN CHARLOTTE COUNTY FLORIDA

OWNERSHIP:
THE PROPERTY SHOWN HEREON AND SUBMITTED FOR DEVELOPMENT IS OWNED BY CALUSA GROWERS LC
PO BOX 8188
MELROSE PARK, IL 60161

CHARACTER AND INTENDED USE:
PROPOSED IS A CLASS 1 SOLID WASTE DISPOSAL FACILITY ALONG WITH A C&D WASTE SITE. ALSO PROPOSED IS A RECYCLING OPERATION INCLUDING: COMPOSTING, ENERGY RECOVERY, LEACHATE REMOVAL, RECYCLING SORTING, ETC.

ZONING:
AC-AGRICULTURE

EXISTING LAND USE:
AGRICULTURE - CODE # 6600 - ORCHARDS GROVES, CITRUS, ETC.

FLOOD PLAIN AREA DESIGNATION:
FLOOD ZONES A & X AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP NUMBER 12015C - 0150F, REVISED MAY 5, 2003.

SURROUNDING LAND USE:
AGRICULTURAL NORTH, SOUTH, EAST AND WEST OF PROPERTY

SURVEY AND ELEVATIONS:
GIS DATA BASED ON STATEPLANE FLORIDA WEST NAD83
VERTICLE DATUM - NAVD 88

PROPOSED LAND USE:	AC. / PERCENTAGE OF TOTAL AREA
TOTAL PROPERTY AREA	661.0 ACRES
TOTAL PD BOUNDARY AREA	553.9 ACRES 100%
STORMWATER MANAGEMENT FACILITIES	107.7 ACRES 19.4%
OPEN SPACE (NOT INCLUDING STORM WATER PONDS)	118.1 ACRES 21.3%
TOTAL IMPERVIOUS AREA	27.7 ACRES 5.0%
TOTAL CLASS 1 FOOTPRINT	189.0 ACRES 34.2%
TOTAL C&D FOOTPRINT	30.0 ACRES 5.4%
FUTURE EXPANSION AREA	26.4 ACRES 4.7%
UNDEVELOPED AREA	55.0 ACRES 10.0%
OPEN SPACE PRESERVATION (MIN.)	27.7 ACRES 5.0%

PARKING REQUIREMENTS:
OFF-STREET PARKING, AREA REQUIREMENTS ARE AS INDICATED WITHIN THIS PLAN SET AND SHALL MEET THE MINIMUM REQUIREMENTS OF THE CHARLOTTE COUNTY ZONING REGULATIONS IN EFFECT AT THE TIME OF THE PERMIT APPROVAL.

REQUIRED:
1000 S.F. OFFICE = 200 S.F./SPACE = 5 SPACES
400 S.F. GATEHOUSE
3200 S.F. MAINTENANCE POLE BARN

22 LANDFILL EMPLOYEES = 22 SPACES

PROPOSED:
REGULAR SPACES 28
HANDICAP SPACES 2
TOTAL SPACES 30

PROPOSED EASEMENTS:
PROPOSED EASEMENTS FOR ACCESS, DRAINAGE, WATER, SEWER, AND UTILITIES ARE AS SHOWN ON THESE PLANS AND ARE SUBJECT TO THE RULES AND REGULATIONS OF THE RESPECTIVE JURISDICTIONAL AGENCY AT THE TIME OF SUBMISSION.

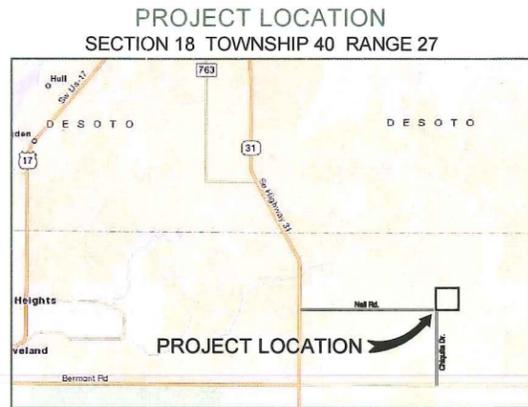
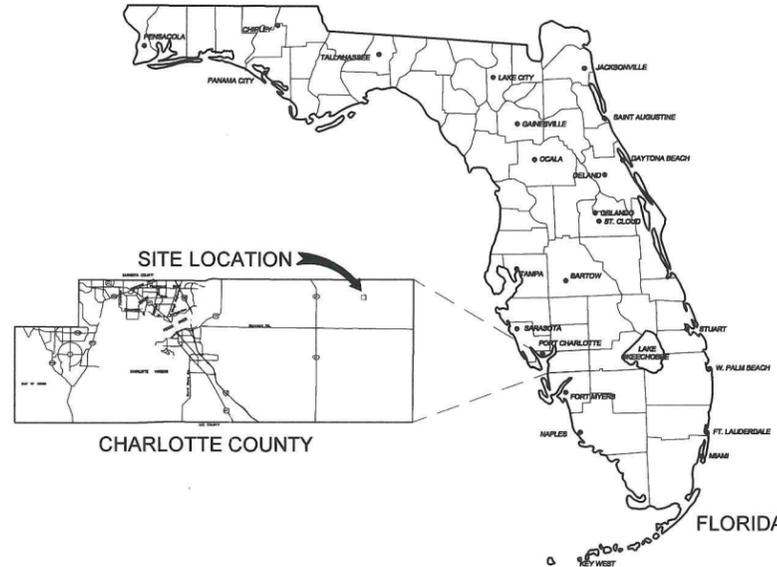
WATER AND SEWER:
WATER PURVEYOR: OWNER
SEWER PURVEYOR: OWNER

STORMWATER MANAGEMENT SYSTEM:
THE STORMWATER MANAGEMENT SYSTEM SHALL BE DESIGNED TO SATISFY ALL CHARLOTTE COUNTY STORMWATER REGULATIONS. THE STORMWATER MANAGEMENT FACILITIES SHALL BE PRIVATELY MAINTAINED.

SITE SIGNAGE:
SIGNAGE SHALL BE CONSISTENT IN TERMS OF DESIGN, HEIGHT, COLOR AND GENERAL MATERIALS. SIGNAGE PLANS SHALL MEET APPLICABLE REQUIREMENTS AS SET FORTH BY THE CHARLOTTE COUNTY ZONING REGULATIONS AND THE CHARLOTTE COUNTY LAND DEVELOPMENT REGULATIONS IN EFFECT AT THE TIME OF PERMIT APPROVAL.

GENERAL NOTES:

- THIS PROJECT MUST COMPLY WITH CHAPTER 3-5, ARTICLE IV, CLEARING, FILLING AND SOIL CONSERVATION REQUIREMENTS OF THE COUNTY CODE. BEST USE MANAGEMENT PLANS MUST BE DOCUMENTED ON FINAL SITE PLANS AND UTILIZED DURING ALL LAND CLEARING AND DEVELOPMENT ACTIVITIES.
- ALL NATIVE TREES THAT ARE TO BE PRESERVED OR REMOVED MUST BE IN ACCORDANCE WITH CHAPTER 3-2 ARTICLE IX, TREE REQUIREMENTS, OF THE COUNTY CODE. TREE REMOVAL AUTHORIZATION, TREE PRESERVATION, AND A MEMORANDUM OF EXEMPTION OF FEES PERMITS ARE REQUIRED PRIOR TO ANY LAND CLEARING ACTIVITY OR THE ISSUANCE OF BUILDING PERMITS.
- THE PROJECT MUST COMPLY WITH CHAPTER 3-5, ARTICLE XVI, OPEN SPACE/HABITAT RESERVATION TRUST REQUIREMENTS OF THE COUNTY CODE.
- ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH O.S.H.A. SAFETY STANDARDS, INCLUDING O.S.H.A. TRENCH SAFETY STANDARDS.
- ALL BRAZILIAN PEPPER, MELALEUCA, AUSTRALIAN PINES AND DOWNY ROSE MYRTLE MUST BE REMOVED FROM THE ENTIRE PROJECT AREA SITE IN ACCORDANCE WITH SECTION 3-5-397 OF THE LANDSCAPE REQUIREMENTS.



INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
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GENERAL INFORMATION SHEETS

-	COVER SHEET
G-01	ZONING MAP / AERIAL
G-02	EXISTING CONDITIONS
G-03	ACCESS MANAGEMENT PLAN

LANDFILL PLANS

C-01	SITE DEVELOPMENT PLAN
C-02	OPERATIONS AREA PLAN
C-03	PHASING PLAN FOOTPRINT
C-04	STORMWATER MANAGEMENT PLAN
C-05	SITE CROSS SECTIONS
C-06	SITE CROSS SECTIONS
C-07	ACCESS ROAD PLAN AND DETAILS
C-08	EROSION CONTROL DETAILS (BMP)
C-09	EROSION CONTROL PLAN

LANDSCAPE PLANS

LS-01	LANDSCAPE PLAN
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ENGINEER:

GARY W. BAYNE, P.E.
SOUTHWEST ENGINEERING & DESIGN
660 CHARLOTTE ST. SUITE 8
PUNTA GORDA, FLORIDA 33950
TEL: 941.637-1149
EMAIL: gbayne@sedfl.com

SURVEYOR:

BANKS ENGINEERING
12653 SW COUNTY ROAD 769
SUITE B
LAKE SUZY, FLORIDA 34269
TEL: 941.625.1165

ENVIRONMENTAL:

IVA
4050 ROCK CREEK DRIVE
PORT CHARLOTTE, FLORIDA
33948
TEL: 941. 457.6272

PLANS PREPARED FOR:

CALUSA GREEN, LLC
1801 SHREVE STREET, SUITE 112
PUNTA GORDA, FL 33950

PLANS PREPARED BY:



660 CHARLOTTE STREET, SUITE 8
PUNTA GORDA, FLORIDA 33950

PHONE: (941)637-9655
FAX: (941)637-1149

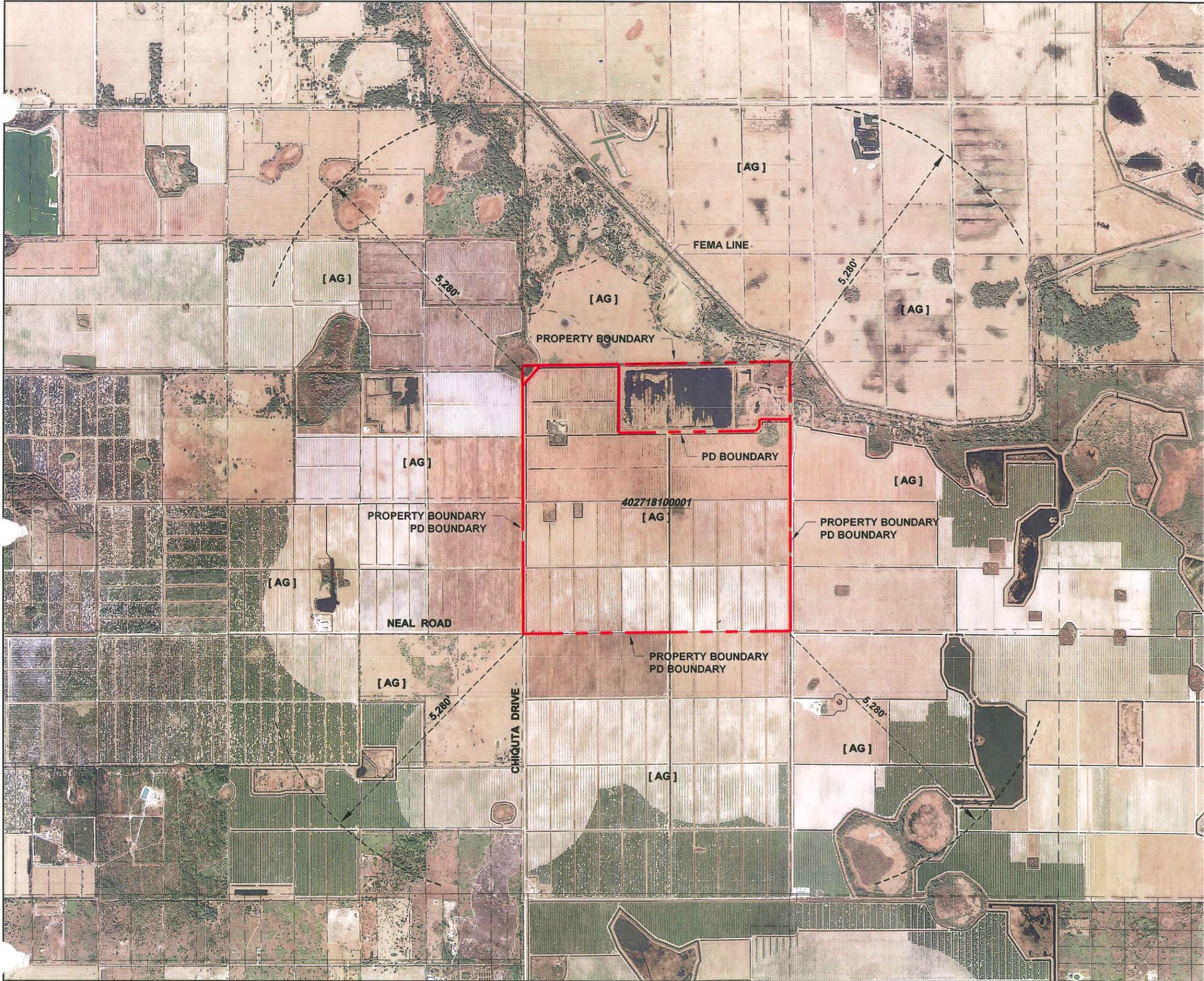
CERTIFICATE OF AUTHORIZATION No.26551

PROJECT NO. 10-00109
JUNE, 2012

Gary W. Bayne
GARY W. BAYNE, P.E.
FLORIDA P.E. NO. 67474
6-25-12

6-25-12
DATE

P:\10-0109 Calusa Landfill\Design\cadd\plan Set\G-00_cover.dwg, 6/25/2012 11:44:59 AM, mcoen



11x17 SCALE: 1" = 4000'
24x36 SCALE: 1" = 2000'

ZONING LEGEND

[AG] AGRICULTURE

P:\10-0109 Calusa Landfill\Design\cadd\plan_SettG-01_zoning map - aerial.dwg, 6/25/2012 1:54:31 PM, mcoen

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 Certificate of Authorization No. 26551

REV.	DATE	BY	CK'D	DESCRIPTION

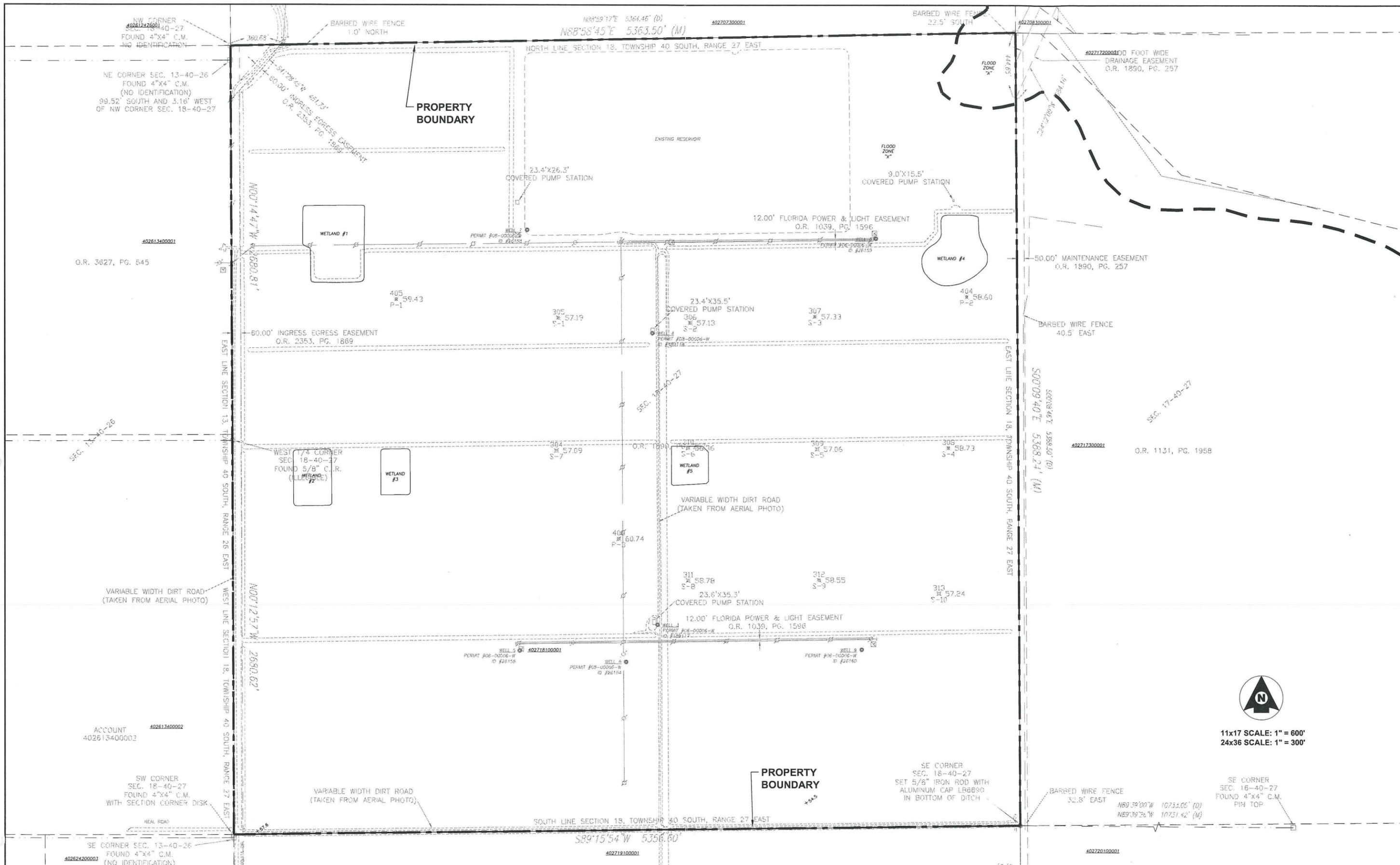
Project No.:	10-0109
Proj. Manager:	K H R
Proj. Designer:	G W B
Drawn By:	M P C / D G
Checked By:	E P L
Approved By:	G W B

**CALUSA GREEN
 ZONING MAP / AERIAL**
 SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST
 PUNTA GORDA
 FLORIDA

Gary W. Bayne
 GARY W. BAYNE, P.E.
 FLORIDA REG No. 62474

DATE:	JUNE, 2012	SCALE:	AS SHOWN
SHEET	G-01		
PROJECT No.:	10-0109		

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11x17 SCALE: 1" = 600'
24x36 SCALE: 1" = 300'

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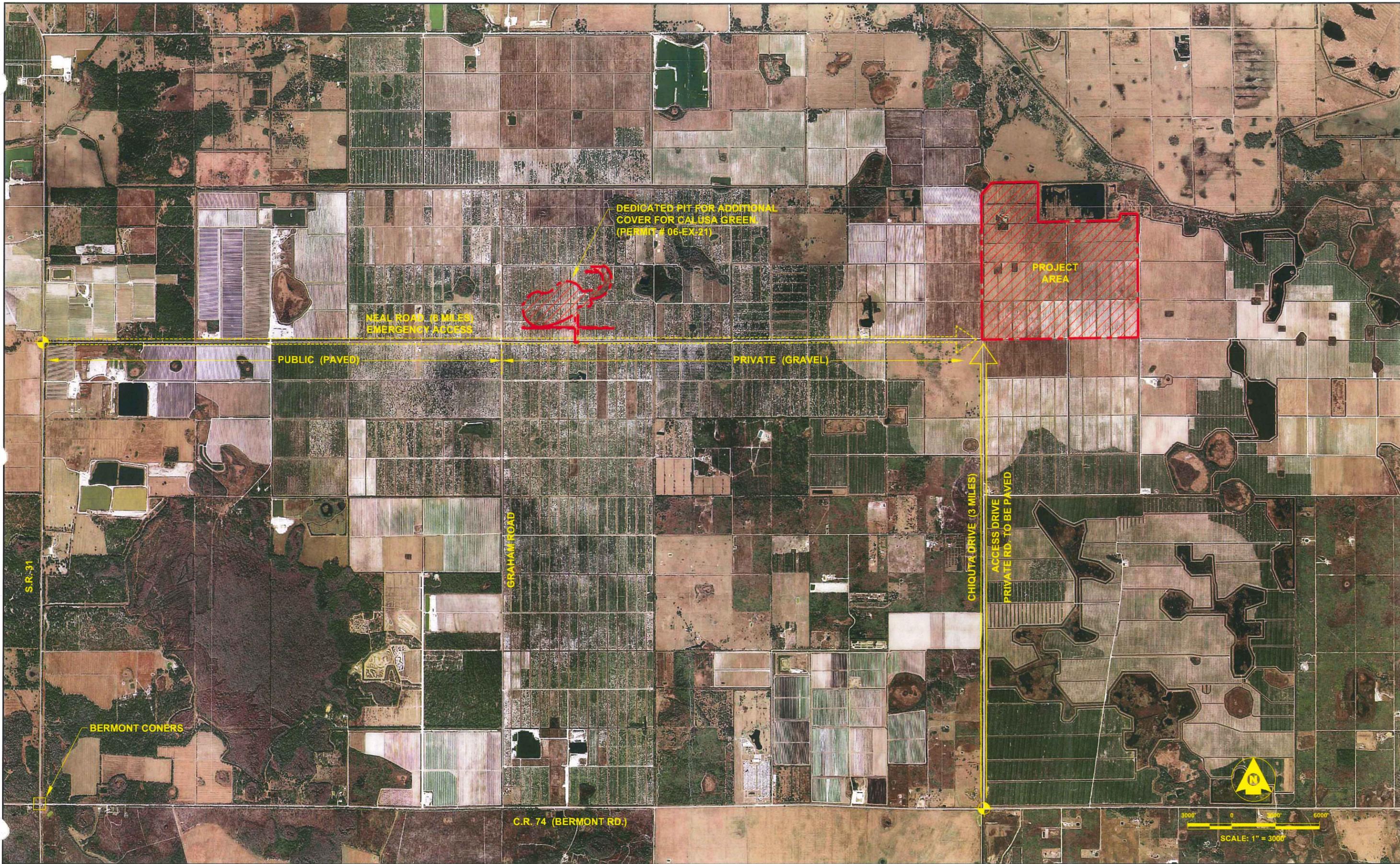
PUNTA GORDA

**CALUSA GREEN
EXISTING CONDITIONS**

SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST
FLORIDA

Gary W. Bayne
6-25-12
GARY W. BAYNE, P.E.
FLORIDA REG No. 62474

DATE: JUNE, 2012	SCALE: AS SHOWN
SHEET: G-02	PROJECT No.: 10-0109



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Proj. Designer:	G W B
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**CALUSA GREEN
ACCESS MANAGEMENT PLAN**

PUNTA GORDA SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST FLORIDA

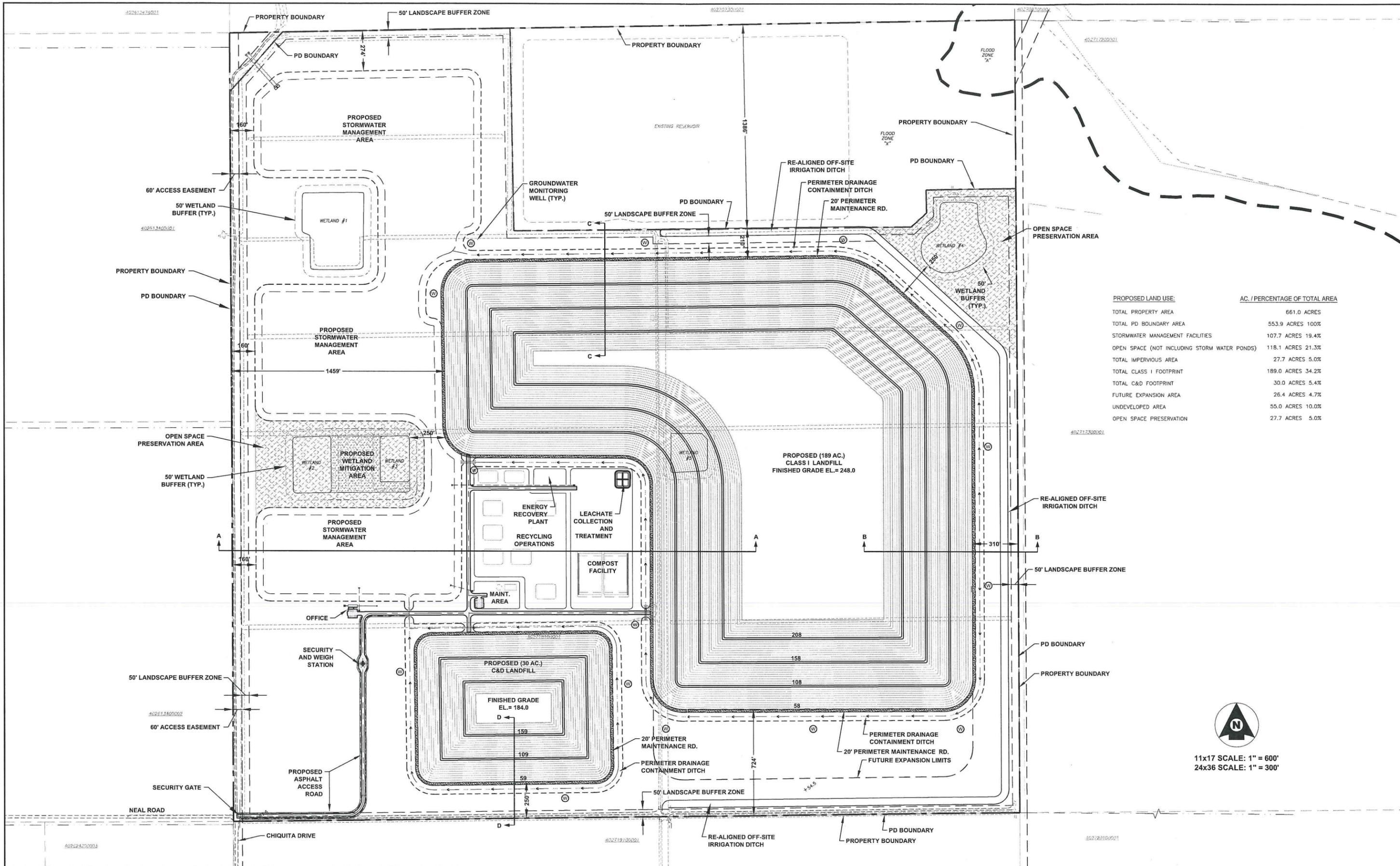
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SHEET **G-03**

PROJECT No.: **10-0109**

GARY W. BAYNE, P.E.
FLORIDA REG No. 62474

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PROPOSED LAND USE:	AC. / PERCENTAGE OF TOTAL AREA
TOTAL PROPERTY AREA	661.0 ACRES
TOTAL PD BOUNDARY AREA	553.9 ACRES 100%
STORMWATER MANAGEMENT FACILITIES	107.7 ACRES 19.4%
OPEN SPACE (NOT INCLUDING STORM WATER PONDS)	118.1 ACRES 21.3%
TOTAL IMPERVIOUS AREA	27.7 ACRES 5.0%
TOTAL CLASS I FOOTPRINT	189.0 ACRES 34.2%
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11x17 SCALE: 1" = 600'
24x36 SCALE: 1" = 300'

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 Drawn By: M P C / D G
 Checked By: E P L
 Approved By: G W B

PUNTA GORDA

CALUSA GREEN SITE DEVELOPMENT PLAN

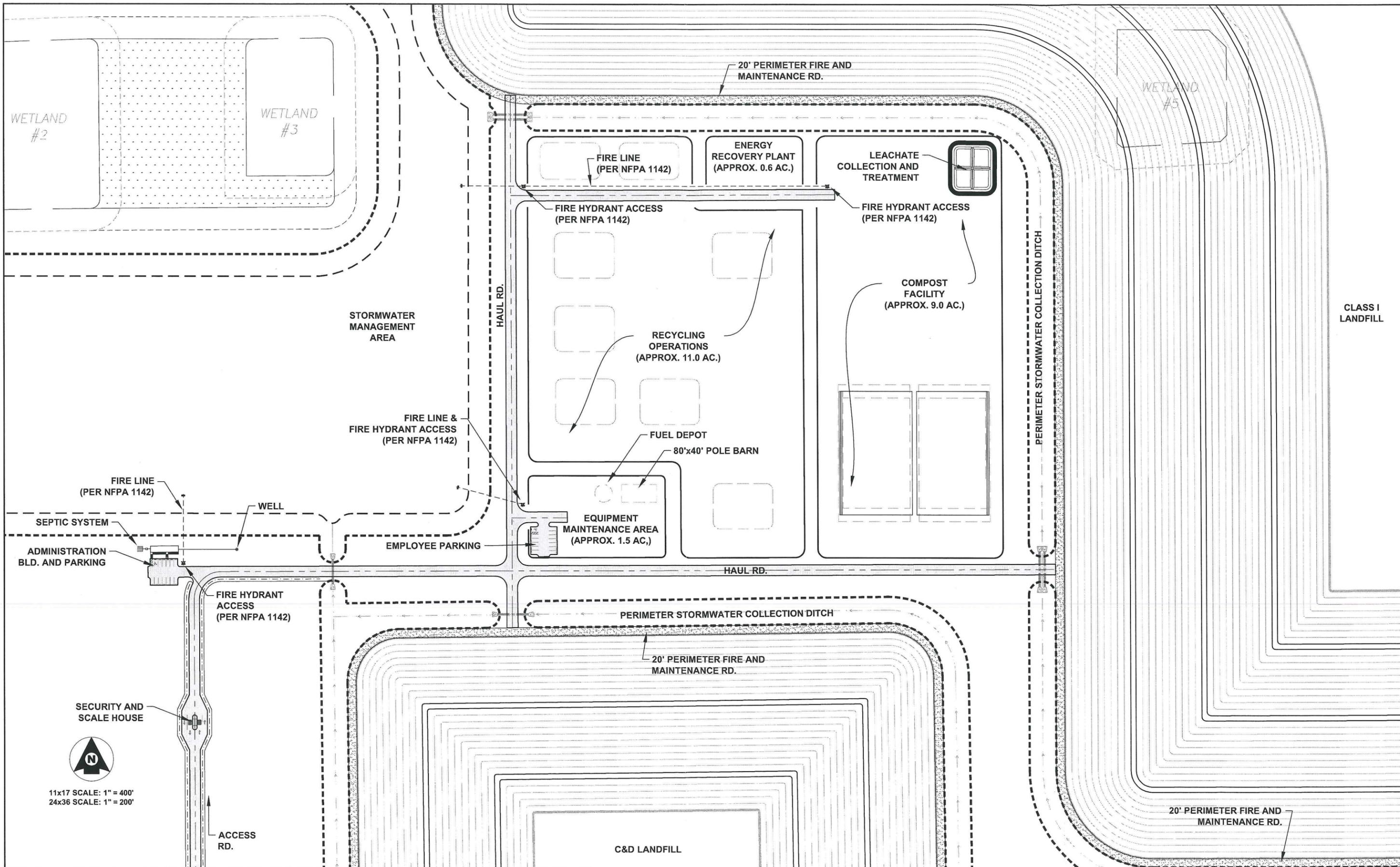
SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST

FLORIDA

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DATE:	JUNE, 2012	SCALE:	AS SHOWN
SHEET	C-01	PROJECT No.:	10-0109

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11x17 SCALE: 1" = 400'
24x36 SCALE: 1" = 200'



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PUNTA GORDA

CALUSA GREEN OPERATIONS AREA PLAN

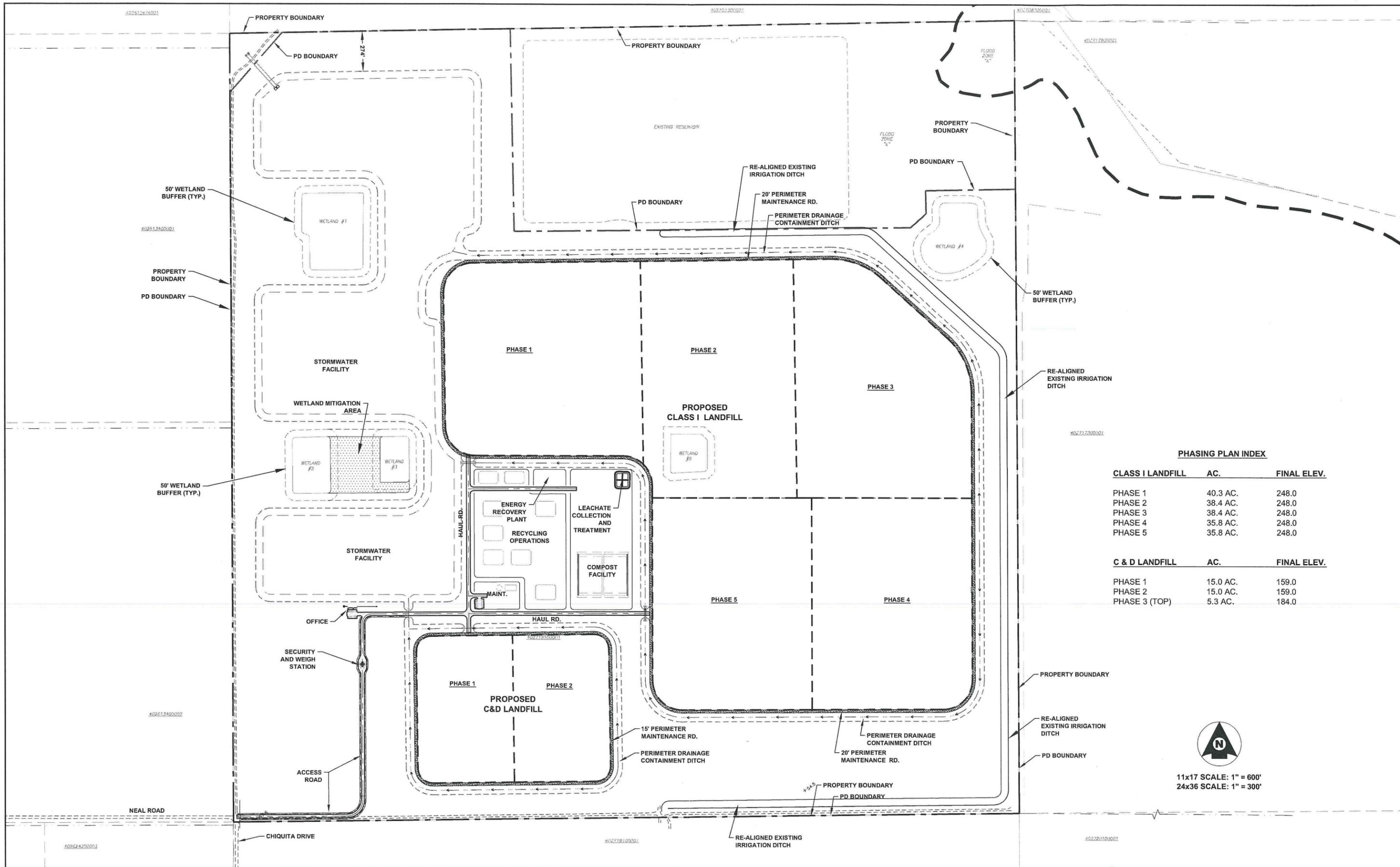
SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST

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PHASING PLAN INDEX

CLASS I LANDFILL	AC.	FINAL ELEV.
PHASE 1	40.3 AC.	248.0
PHASE 2	38.4 AC.	248.0
PHASE 3	38.4 AC.	248.0
PHASE 4	35.8 AC.	248.0
PHASE 5	35.8 AC.	248.0

C & D LANDFILL	AC.	FINAL ELEV.
PHASE 1	15.0 AC.	159.0
PHASE 2	15.0 AC.	159.0
PHASE 3 (TOP)	5.3 AC.	184.0



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24x36 SCALE: 1" = 300'

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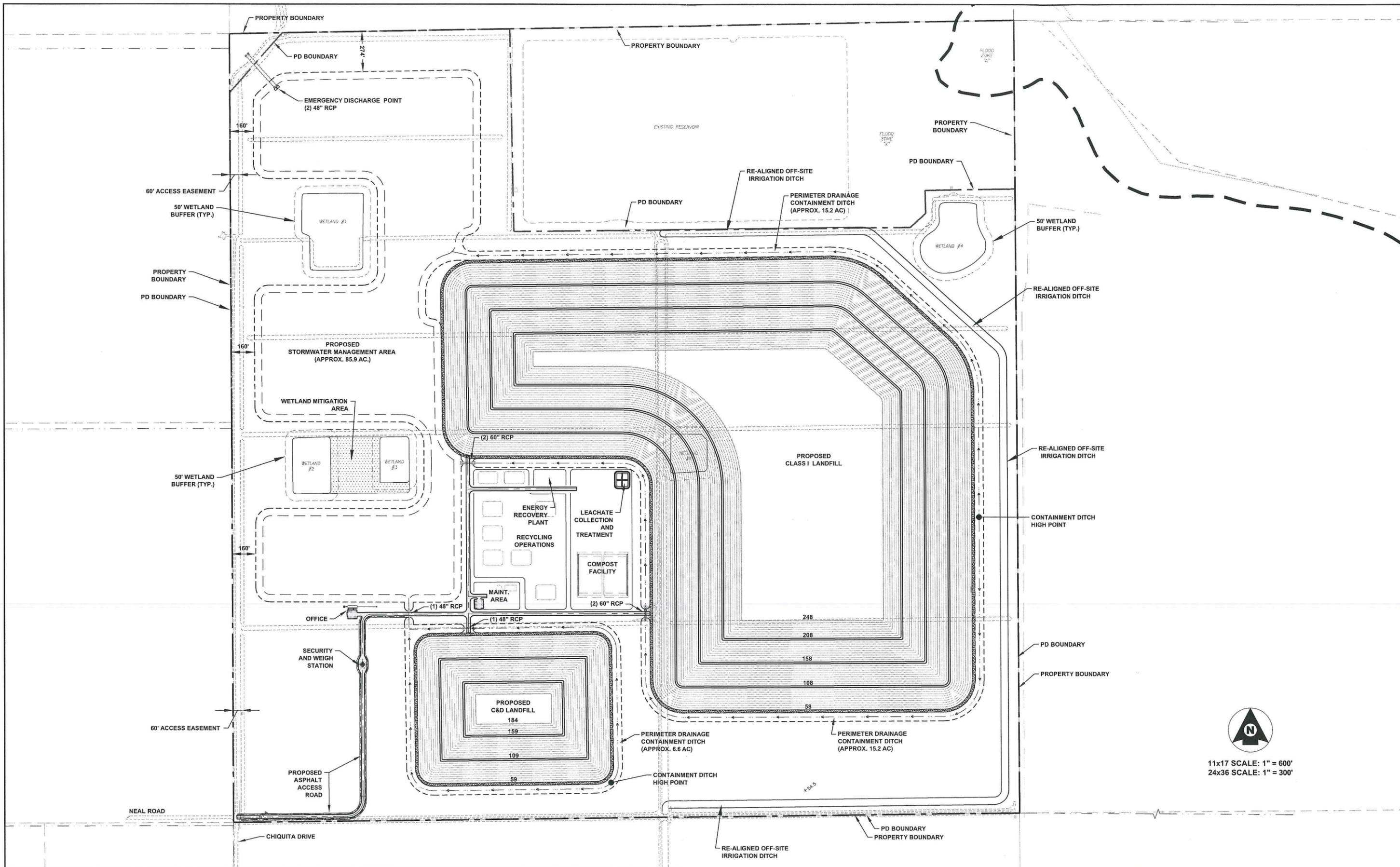
**CALUSA GREEN
PHASING PLAN FOOT PRINT**

SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST
FLORIDA

DATE: JUNE, 2012 SCALE: AS SHOWN
SHEET: **C-03**
PROJECT No.: 10-0109

Gary W. Bayne
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FLORIDA REG No. 62474

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11x17 SCALE: 1" = 600'
24x36 SCALE: 1" = 300'

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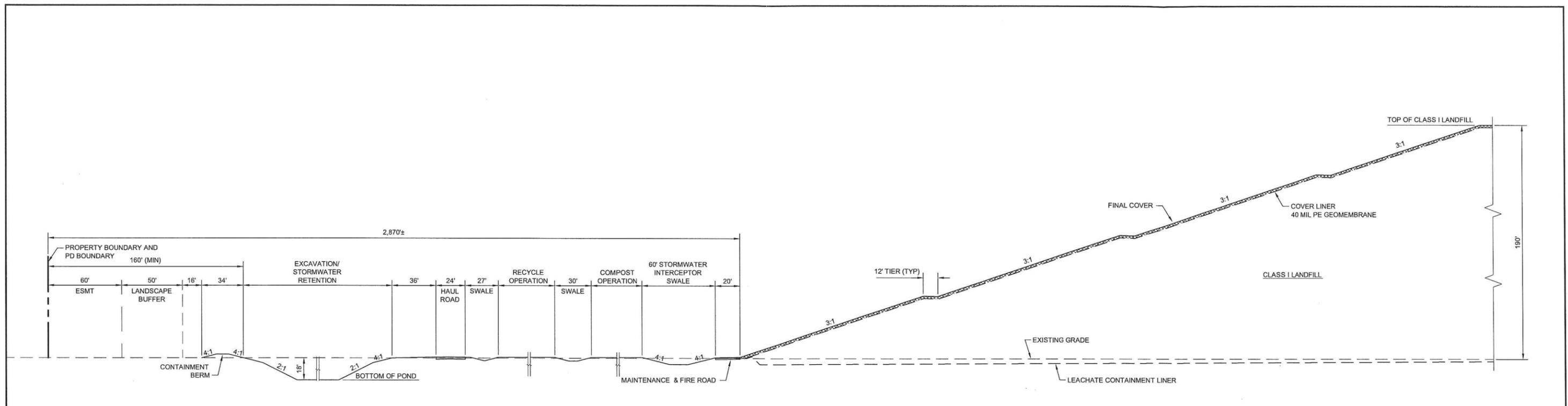
**CALUSA GREEN
STORM WATER MANAGEMENT PLAN**

PUNTA GORDA SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST FLORIDA

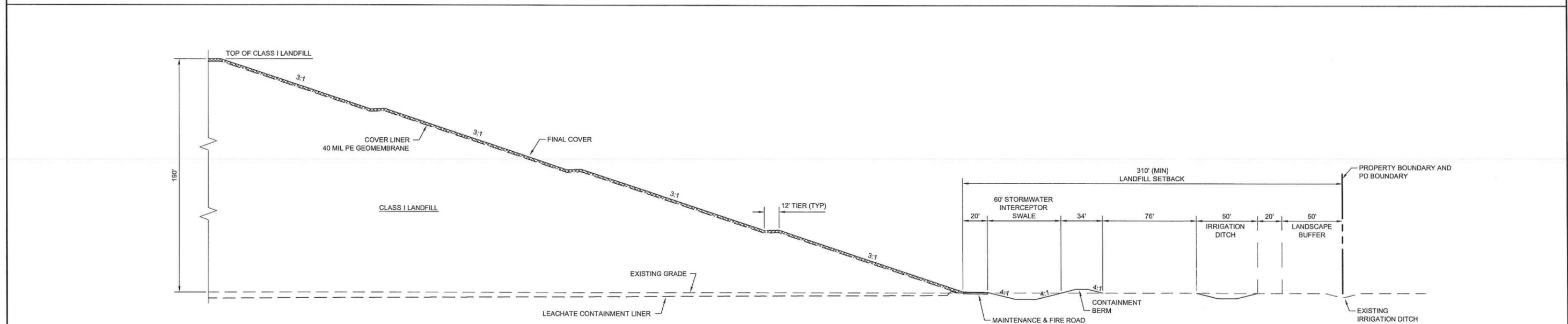
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DATE: JUNE, 2012	SCALE: AS SHOWN
SHEET: C-04	PROJECT No.: 10-0109

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SECTION A-A
SCALE: 1"=80'



SECTION B-B
SCALE: 1"=80'

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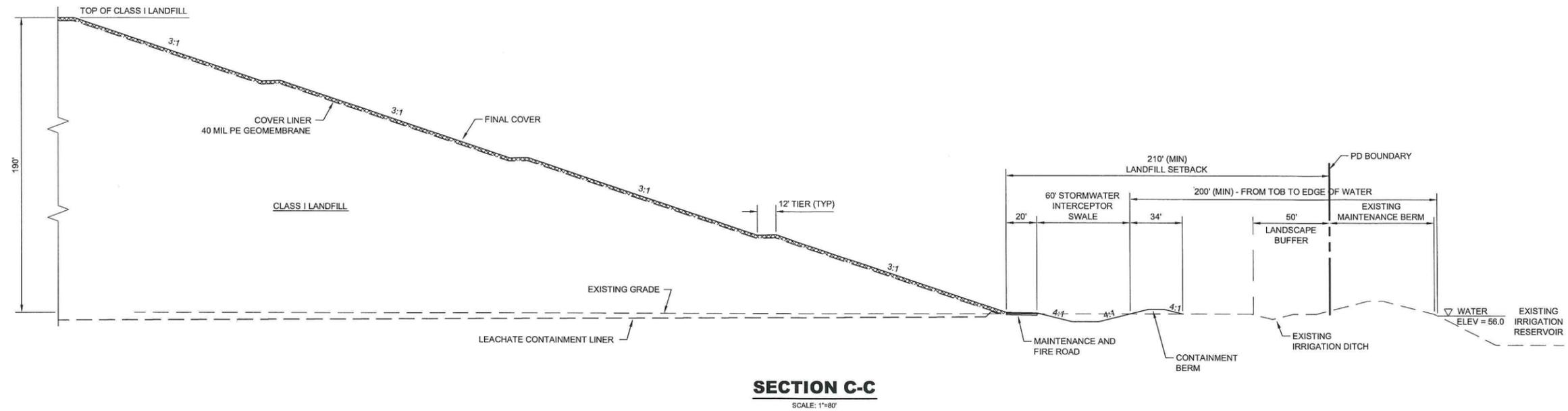
PUNTA GORDA

**CALUSA GREEN
CROSS SECTIONS**

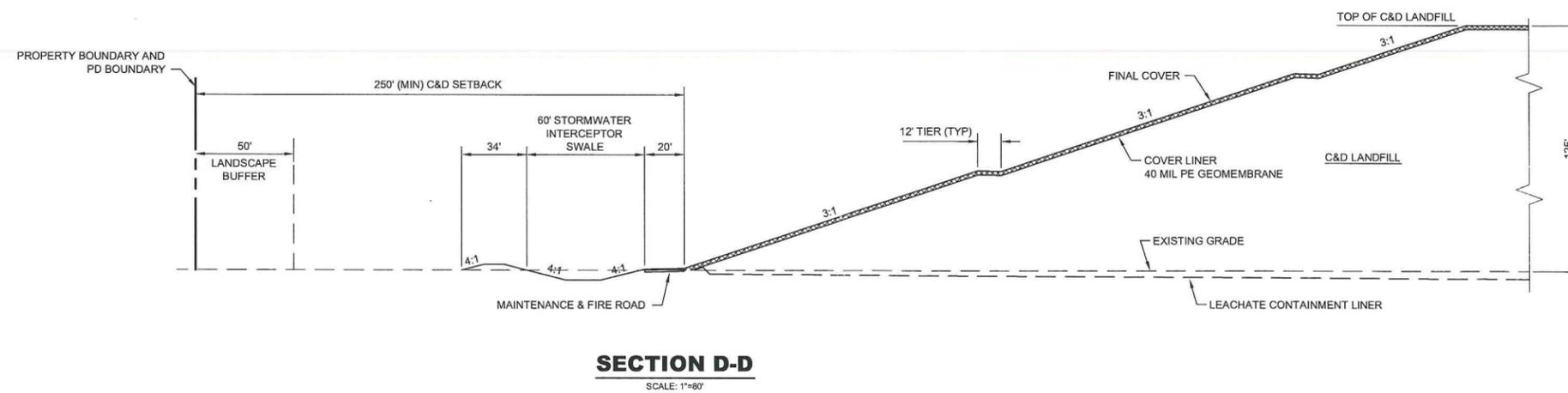
SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST
FLORIDA

Gary W. Bayne
6-25-12
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DATE:	JUNE, 2012	SCALE:	AS NOTED
SHEET	C-05		
PROJECT No.:	10-0109		



SECTION C-C
SCALE: 1"=80'



SECTION D-D
SCALE: 1"=80'

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PUNTA GORDA

**CALUSA GREEN
CROSS SECTIONS**

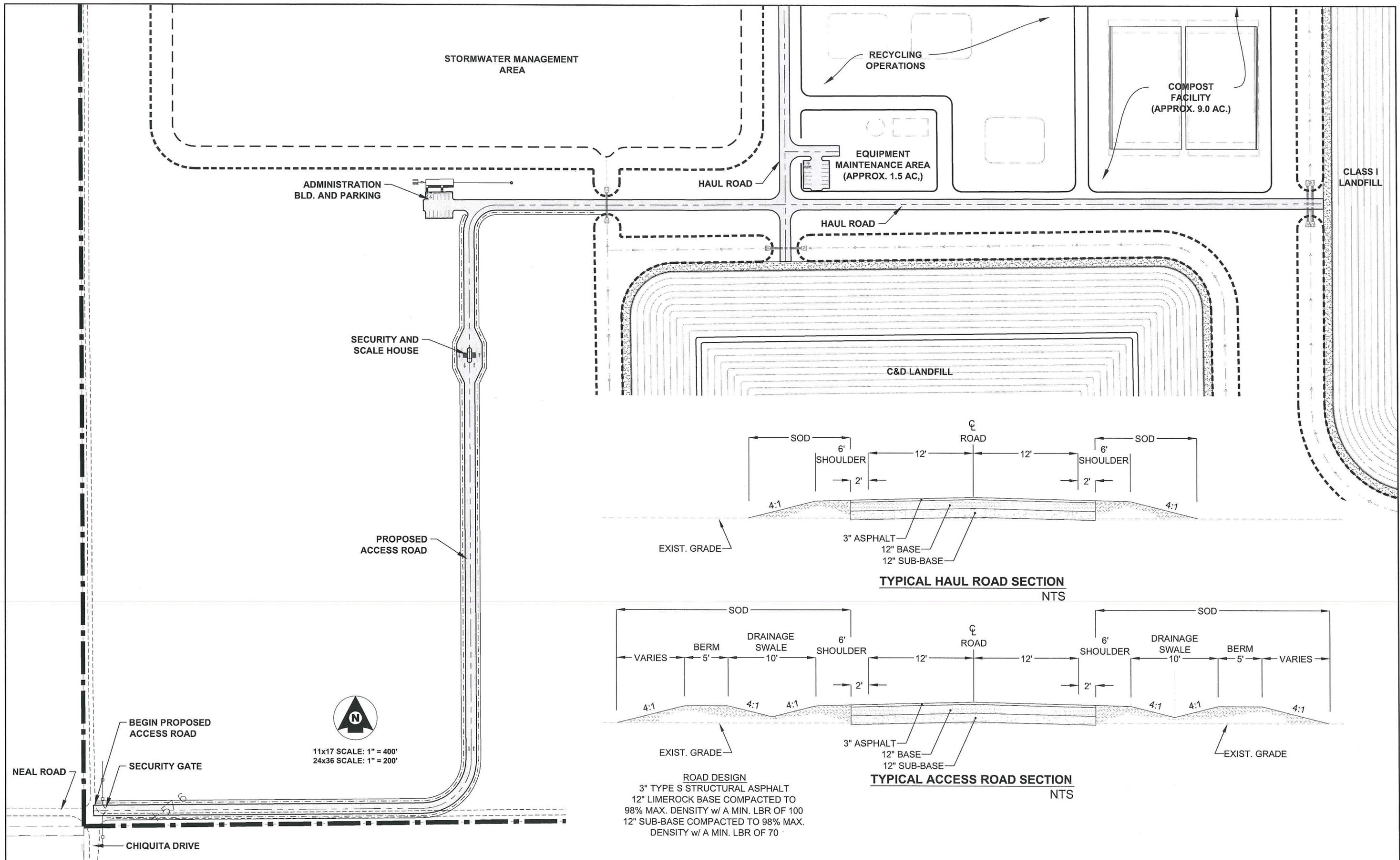
SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST

FLORIDA

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6/25/12
GARY W. BAYNE, P.E.
FLORIDA REG No. 62474

DATE: JUNE, 2012	SCALE: AS NOTED
SHEET C-06	PROJECT No.: 10-0109

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**CALUSA GREEN
ACCESS ROAD PLAN AND SECTION**

SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST
PUNTA GORDA, FLORIDA

DATE: JUNE, 2012 SCALE: AS SHOWN
SHEET: C-07
PROJECT No.: 10-0109

GARY W. BAYNE, P.E.
FLORIDA REG No. 62474

EROSION CONTROL NOTES

1. GENERAL

- a) THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND SERVICES NEEDED TO INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES. THESE MEASURES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND ALL APPLICABLE STATE AND LOCAL REQUIREMENTS.
- b) EROSION AND SEDIMENT CONTROL BMPs IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP) OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFFSITE STORMWATER CONVEYANCES, OR OFFSITE RECEIVING WATERS. BMPs SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF-SITE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. [THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]
- c) OFF-SITE SURFACE WATER DISCHARGES WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTUS) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO WATER RESOURCES WITHIN 24 HOURS OF THE OCCURRENCE (PH: 941.861.5000; FAX: 941.861.0986). THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.
- d) THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONTROLLED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(C)1, F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
- e) FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO WATER RESOURCES (PH: 941.861.5000; FAX: 941.861.0986). SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.

2. WETLAND PROTECTION

- a) IN AREAS OF CONSTRUCTION ADJACENT TO WETLANDS, THE FOLLOWING SHALL BE PERFORMED:
 - c) THE ACTUAL WETLAND AND REQUIRED BUFFERS, AS SHOWN ON THE PLANS, MUST BE ESTABLISHED AND ROPED OFF PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY ADJACENT TO SAID AREAS.
 - b) PRIOR TO THE PLACEMENT OF ANY FILL MATERIAL ADJACENT TO WETLANDS OR BUFFER AREAS, A SILTATION BARRIER SHALL BE CONSTRUCTED.
 - c) NO RIM DITCHING OF THE WETLANDS SHALL BE PERFORMED. WATER LEVELS IN THE WETLANDS SHALL BE MAINTAINED ACCORDING TO LEVELS EXISTING PRIOR TO SITE DISTURBANCE.
 - d) IN AREAS OF WETLANDS IN WHICH WORK IS TO BE PERFORMED, SUCH AREAS MUST BE CLEARLY STAKED AND ROPED OFF. ALONG SUCH LIMITS, A SILTATION BARRIER MUST BE CONSTRUCTED.
 - e) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF BARRIERS. BARRIERS SHALL REMAIN IN PLACE UNTIL ALL AREAS ARE STABILIZED.
 - f) THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY UPON DISTURBANCE OF WETLAND AREAS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ALL PROTECTED AREAS.
 - g) AREAS WHERE IMPACTS WILL BE PERFORMED SHALL BE STRIPPED OF EXISTING MATERIAL AND STOCKPILED FOR USE IN THE RE-CREATION OF THE DISTURBED AREAS OR IN LITTORAL ZONES.

3. EARTH MOVING ACTIVITIES

- a) THE CONTRACTOR SHALL EXERCISE CARE TO PRESERVE THE NATURAL LANDSCAPE AND SHALL PLAN CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY UNNECESSARY DESTRUCTION, SCARRING, OR DEFACTING OF THE NATURAL SURROUNDINGS. EXCEPT WHERE CLEARING IS REQUIRED FOR PERMANENT WORK, FOR APPROVED CONSTRUCTION ROADS, OR FOR EXCAVATION OPERATIONS, ALL TREES, NATIVE SHRUBBERY AND VEGETATION SHALL BE PRESERVED AND SHALL BE PROTECTED FROM DAMAGE WHICH MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS AND EQUIPMENT.
- b) THE FIRST STAGE OF THE EARTH MOVING ACTIVITY SHALL BE CONFINED TO THE EXCAVATION OF THE STORMWATER FACILITY.
- c) TOPSOIL SHOULD BE TAKEN FROM THE CONSTRUCTION AREAS AND SHOULD BE STOCKPILED FOR REUSE IN FINISHED GRADING. STOCKPILES SHOULD BE PLACED SO AS NOT TO ADD ANY ADDITIONAL SEDIMENT TO THE CONSTRUCTION.
- d) GRADED AREAS ARE TO BE SODDED WITHIN THIRTY (30) DAYS FOLLOWING EARTH MOVING PROCEDURES.
- e) TEMPORARY DIVERSION BERMS AND/OR BARRIERS SHALL BE REMOVED ONLY AFTER THE CONSTRUCTION OF THOSE AREAS DIRECTED TO THE BERMS AND/OR BARRIERS HAVE BEEN COMPLETED.
- f) THE SILT COLLECTION PONDS SHOULD BE REMOVED AND/OR REGRADED FOR PERMANENT USE, AS THE FINAL GRADING AND SODDING OVERLAP THE AREA USED BY SAME.

4. FILLS

- a) LAND TO BE CUT OR FILLED SHOULD BE CLEARED OF TREES, STUMPS, ROOTS, BRUSH, BOULDERS, SOD AND DEBRIS.
- b) FILL AREAS SHOULD BE SCARIFIED, KEYED AND DRAINED.
- c) FILL MATERIAL SHOULD BE FREE OF SOD, ROOTS, OR OTHER DECOMPOSABLE MATERIAL.
- d) THE PLACING AND SPREADING OF FILL MATERIAL SHOULD BE STARTED AT THE LOWEST POINT.
- e) GENERALLY, A 6:1 SLOPE SHOULD BE USED UNLESS SPECIFIC ENGINEERING DATA SHOWS A STEEPER SLOPE IS STABLE. SLOPES OF 4:1 OR FLATTER ARE DESIRABLE FOR EROSION CONTROL AND MAINTENANCE.
- f) FILLS SHOULD BE SODDED IMMEDIATELY UPON COMPLETION OF EARTH PLACEMENT.
- g) WATER MANAGEMENT SYSTEMS SHOULD BE PROVIDED TO PREVENT WATER CONCENTRATION AND FLOODING THE FACE OF THE SLOPE. KEEP SURFACE WATER OFF THE FACE OF THE SLOPE.

5. CUTS

- a) DIVERSIONS SHOULD BE CONSTRUCTED AT TOP OF THE SLOPES PRIOR TO CUTTING OPERATIONS TO CONVEY WATER FROM FACE OF SLOPE.
- b) STEEPNESS OF CUTS WILL DEPEND ON SOIL TYPE AND DESIGN; HOWEVER, CUT SLOPES OF 4:1 OR FLATTER ARE DESIRABLE FOR EROSION CONTROL AND STABILITY.
- c) CUT SLOPES SHOULD BE SODDED IMMEDIATELY AFTER REMOVAL OF EARTH.

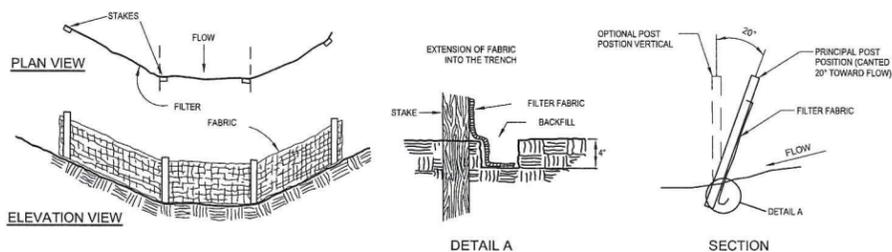
6. TEMPORARY SEDIMENT BASIN AND PERMANENT STORMWATER BASINS

- a) SITE PREPARATION: AREAS UNDER THE EMBANKMENT AND ANY STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIALS. IN ORDER TO FACILITATE CLEAN-OUT AND RESTORATION, THE POOL AREA (MEASURED AT THE TOP OF THE SPILLWAY) WILL BE CLEARED OF ALL BRUSH AND TREES.
- b) CUT-OFF TRENCH: A CUT-OFF TRENCH WHEN POND DEPTHS ARE IN EXCESS OF THREE FEET, SHALL BE EXCAVATED ALONG THE CENTERLINE OF EARTH FILL EMBANKMENTS. THE MINIMUM DEPTH SHALL BE TWO FEET. THE CUT-OFF TRENCH SHALL EXTEND UP BOTH ABUTMENTS TO THE RISER CREST ELEVATION. THE MINIMUM BOTTOM DEPTH SHALL BE FOUR FEET, BUT WIDE ENOUGH TO PERMIT OPERATION OF EXCAVATION AND COMPACTION EQUIPMENT. THE SIDE SLOPES SHALL BE NO STEEPER THAN 1:1. COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR THE EMBANKMENT. THE TRENCH SHALL BE DEWATERED DURING THE BACKFILLING-COMPACTION OPERATIONS.
- c) EMBANKMENT: THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED BORROW AREAS. IT SHALL BE CLEAN SOIL FREE OF ROOTS, WOODY VEGETATIONS, OVER-SIZED STONES, ROCKS OR OTHER OBJECTIONABLE MATERIAL. AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIAL SHALL BE PLACED IN SIX TO EIGHT INCHES THICK CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL. COMPACTION SHALL BE OBTAINED BY ROUTING HAULING EQUIPMENT OVER THE FILL SO THAT THE ENTIRE SURFACE OF EACH LAYER OF THE FILL IS TRAVERSED BY AT LEAST ONE WHEEL OF TREAD TRUCK OF THE EQUIPMENT OR BY THE USE OF A COMPACTOR. THE EMBANKMENT SHALL BE CONSTRUCTED TO AN ELEVATION OF 10% HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLEMENT IF COMPACTION IS OBTAINED WITH HAULING EQUIPMENT. IF COMPACTORS ARE USED FOR COMPACTION, THE OVERBUILD MAY BE REDUCED TO NOT LESS THAN 5%.

- d) PIPE SPILLWAYS: THE RISER SHALL BE SECURELY ATTACHED TO THE BARREL OF THE OUTFALL PIPE. THE BARREL AND RISER SHALL BE PLACED ON A FIRM, SMOOTH SOIL FOUNDATION. THE CONNECTION BETWEEN THE RISER AND RISER BASE SHALL BE WATERTIGHT. THE FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE PLACED IN FOUR INCH LAYERS AND COMPACTED UNDER THE SHOULDERS AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
- e) EROSION POLLUTION CONTROL: CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT SHALL BE COMPLIED WITH.

7. MAINTENANCE

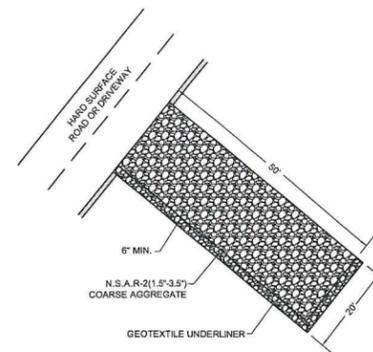
- a) REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORK DAY.
- b) SEDIMENT SHALL BE REMOVED FROM SUMP AREAS. THE SEDIMENT SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT ERODE FROM THE SITE. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT OR IN OR ADJACENT TO A STREAM OR FLOOD PLAIN.
- c) AFTER CONSTRUCTION IS COMPLETED AND AREAS ARE SODDED, MAINTENANCE IS LIMITED TO VISUAL INSPECTIONS ON A ROUTINE BASIS. ANY DAMAGE TO THE BERM SHALL BE REPAIRED AT ONCE AND RE-SODDED. IF THE LEVEL OF WATER IS BEING MAINTAINED OVER THE EXPECTED DRAW DOWN TIME, THE OUTFALL SYSTEM SHALL BE CLEANED AND REPAIRED.



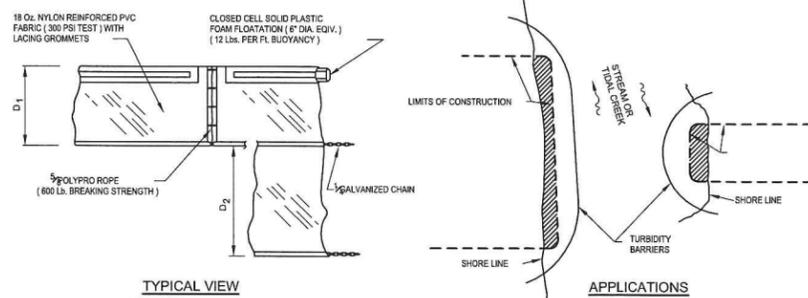
STAKED SILT BARRIER

(DURING CONSTRUCTION ONLY)

- 1. FILTER BARRIERS MUST BE INSTALLED, AS INDICATED HEREIN, PRIOR TO CONSTRUCTION.
- 2. FILTER BARRIERS SHALL NOT BE INSTALLED IN ANY CONFIGURATION THAT BLOCKS THE THROAT OF ANY STORMWATER INLET.
- 3. INSPECTIONS AND REPAIRS TO BARRIERS SHALL BE MADE DAILY.
- 4. FILTER BARRIERS SHALL BE REMOVED UNTIL APPROVED BY ENGINEER.



SOIL TRACKING CONTROL DETAIL

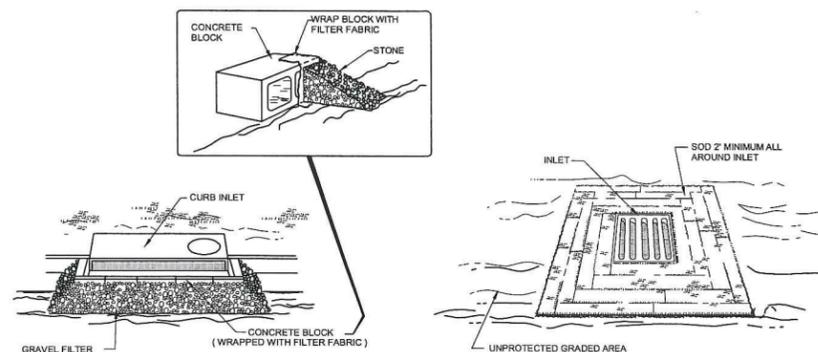


TYPICAL VIEW

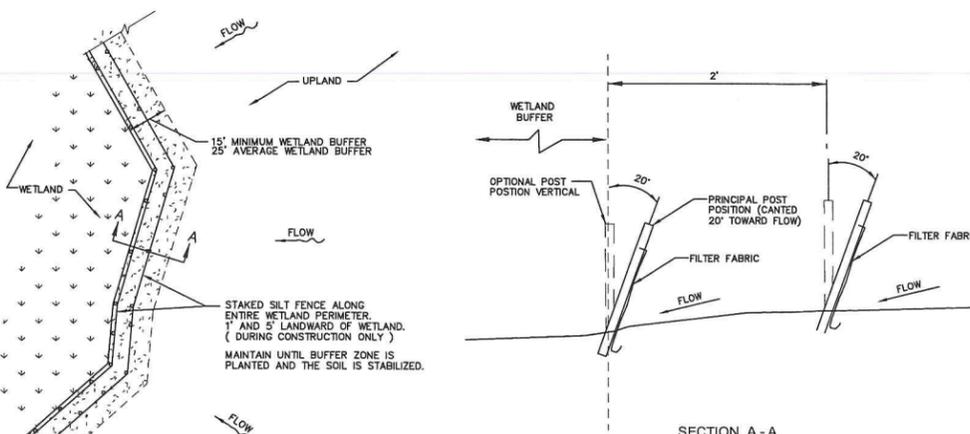
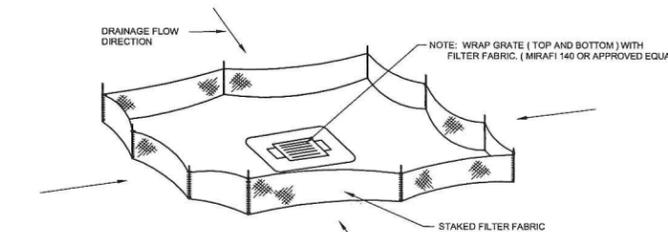
NOTES:

- 1. D = 9" STANDARD (SINGLE PANEL FOR DEPTH 9' OR LESS), D = 5" STANDARD (ADDITIONAL PANEL FOR DEPTHS > 9'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.
- 2. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH WHEN ADJACENT TO CONSTRUCTION ACTIVITIES.
- 3. NUMBER AND SPACING OF ANCHORS DEPENDENT ON WATER VELOCITIES.
- 4. BARRIERS TO REMAIN IN PLACE UNTIL APPROVED FOR REMOVAL BY ENGINEER.

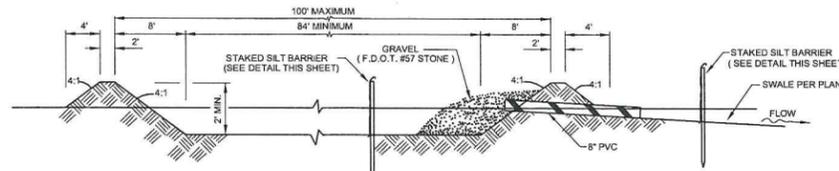
FLOATING TURBIDITY BARRIER



PROTECTION OF INLETS



WETLAND PROTECTION



SILTATION POND DETAILS

(REQUIRED DURING DEWATERING FOR SUMP EXCAVATION ONLY)

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 Certificate of Authorization No. 26551

REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	10-0109
Proj. Manager:	K H R
Proj. Designer:	G W B
Drawn By:	M P C / D G
Checked By:	E P L
Approved By:	G W B

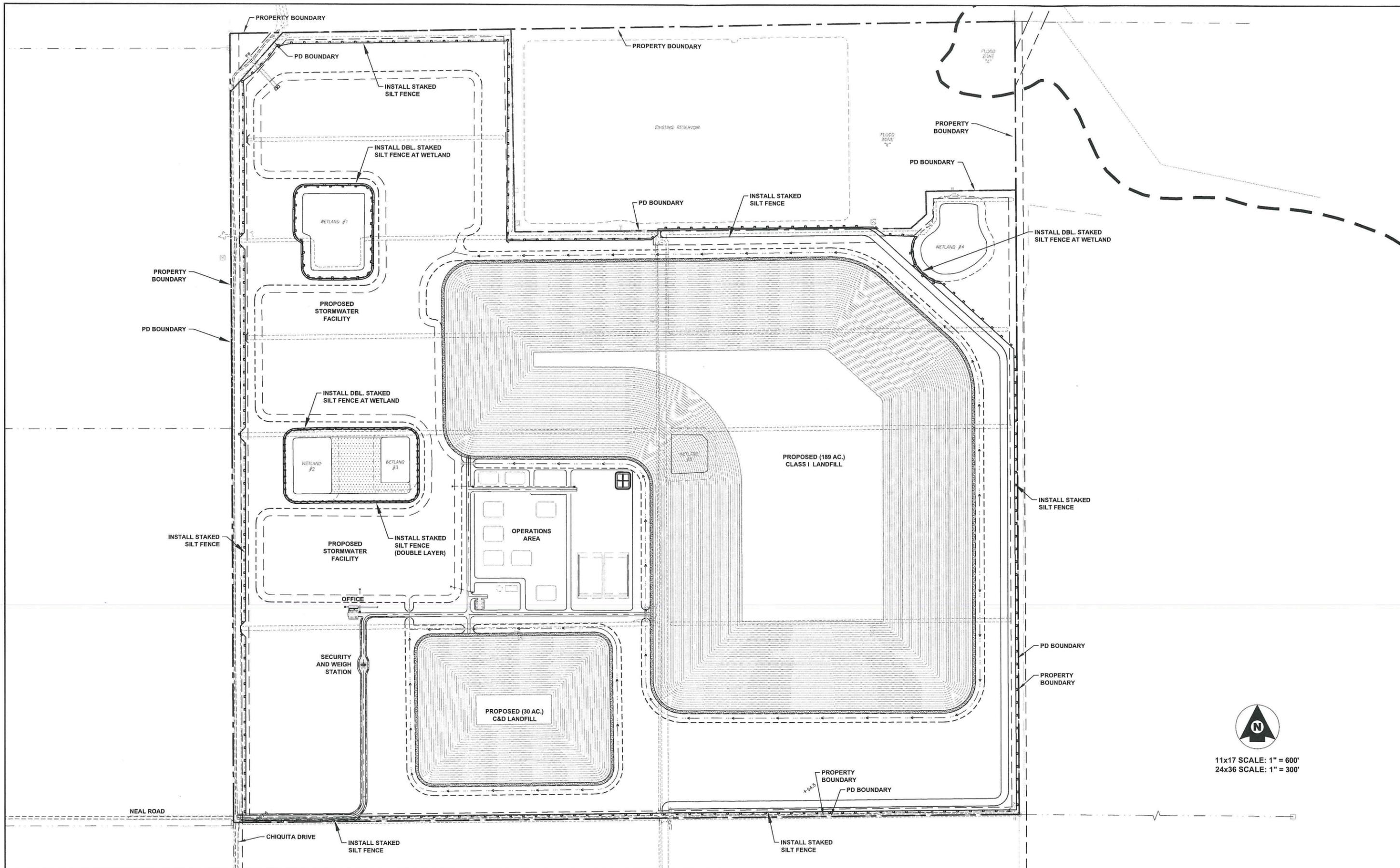
CALUSA GREEN
EROSION CONTROL DETAILS (BMP)

PUNTA GORDA SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST FLORIDA

Gary W. Bayne
GARY W. BAYNE, P.E.
 FLORIDA REG No. 62474

DATE:	JUNE, 2012	SCALE:	NTS
SHEET	C-08	PROJECT No.:	10-0109

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11x17 SCALE: 1" = 600'
24x36 SCALE: 1" = 300'



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PUNTA GORDA

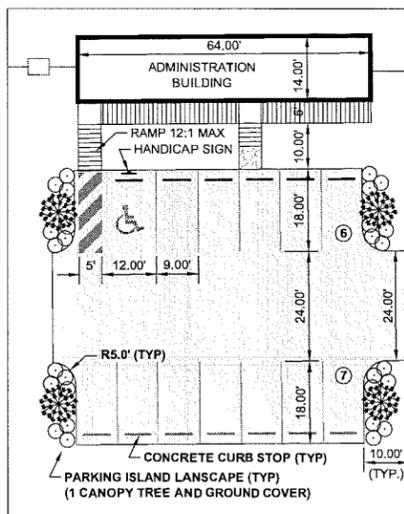
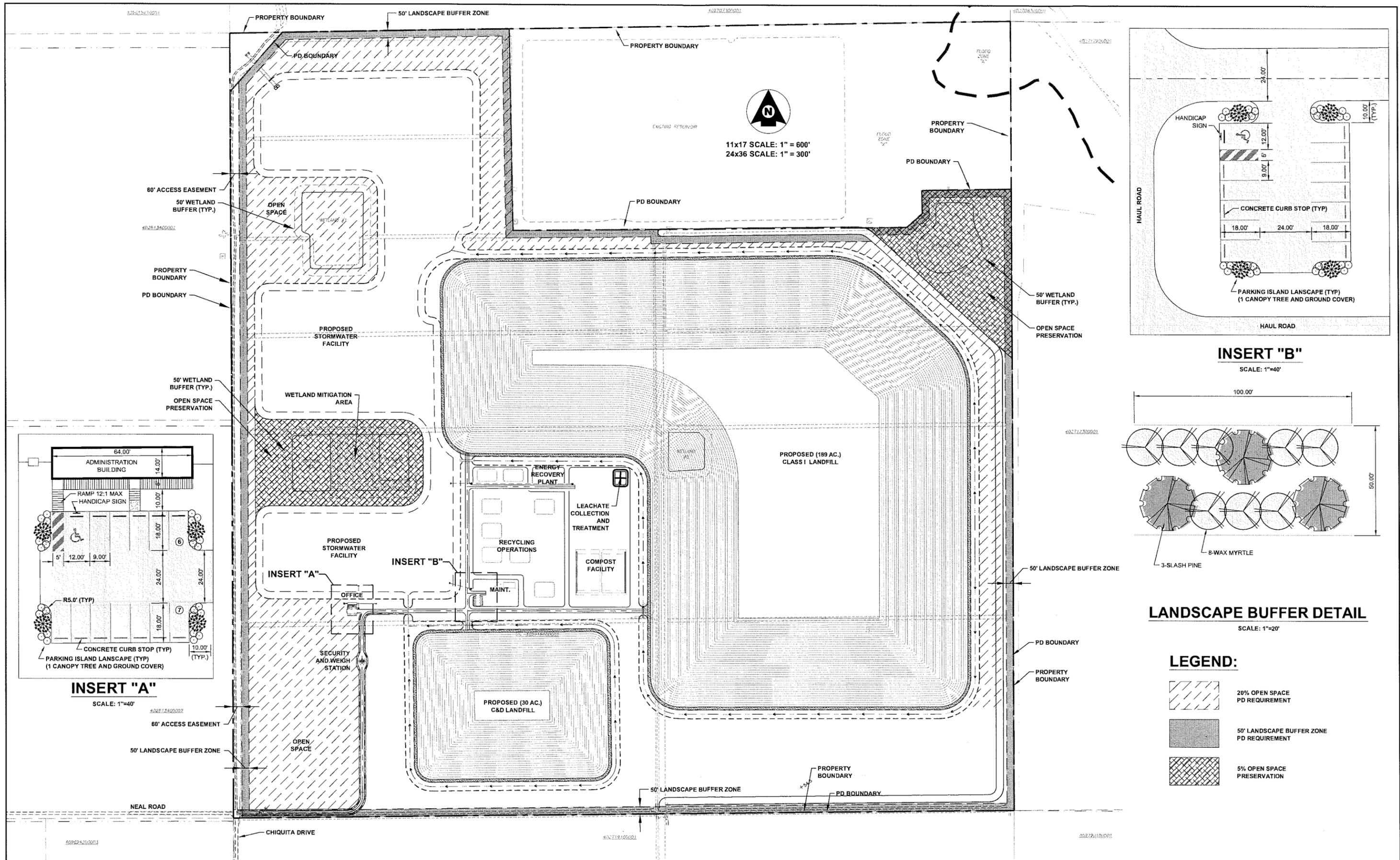
CALUSA GREEN EROSION CONTROL PLAN

SECTION 18, TOWNSHIP 40 SOUTH, RANGE 27 EAST

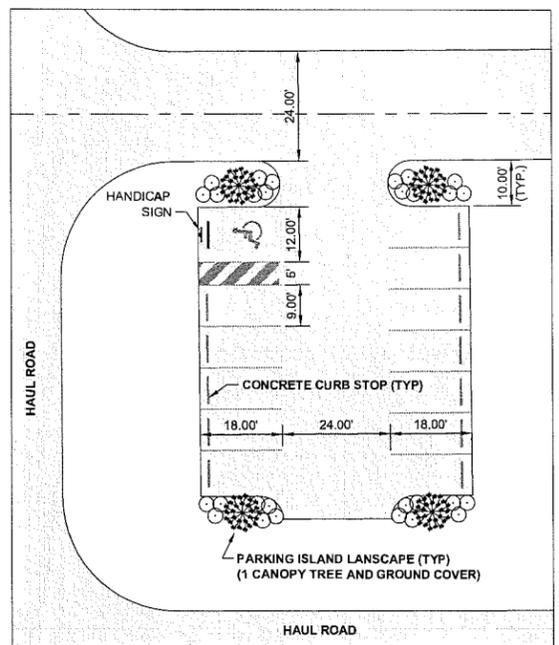
FLORIDA

Gary W. Bayne
6/25/12
GARY W. BAYNE, P.E.
FLORIDA REG No. 62474

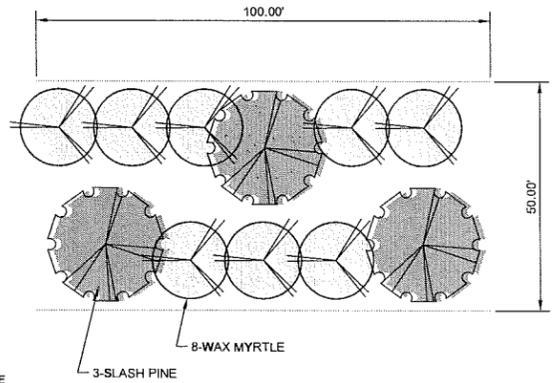
DATE:	JUNE, 2012	SCALE:	AS SHOWN
SHEET	C-09		
PROJECT No.:	10-0109		



INSERT "A"
SCALE: 1"=40'



INSERT "B"
SCALE: 1"=40'



LANDSCAPE BUFFER DETAIL
SCALE: 1"=20'

- LEGEND:**
-  20% OPEN SPACE PD REQUIREMENT
 -  50' LANDSCAPE BUFFER ZONE PD REQUIREMENT
 -  5% OPEN SPACE PRESERVATION

REV.	DATE	BY	CK'D	DESCRIPTION

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