January 24, 2025 Project No. 31405228.001

Cindy Mulkey, Program Administrator
Siting Coordination Office
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 5500
Tallahassee, Florida 32399

Email: Cindy.mulkey@dep.state.fl.us

RE: Shady Hills Energy Center, LLC
Shady Hills Combined Cycle Facility, Pasco County
Amendment to Certified Site Boundary and Stormwater Management Plan
Conditions of Certification PA 18-59

Dear Ms. Mulkey:

Shady Hills Energy Center, LLC (SHEC) respectfully submits this Post-certification Modification for the Site Certification Application (SCA) for the Shady Hills Combined Cycle Facility (SHCCF) Expansion Project. The SCA was originally certified on December 3, 2018.

The SHCCF Project is owned by SHEC. The SHCCF Project site is adjacent to the Shady Hills Generating Station (SHGS) to the west, the Seminole EMCC Facility site which is owned and operated by Seminole Electric Cooperative, Inc. (Seminole) to the east, vacant/wooded lands to the north and PODS Moving & Storage to the south (See Figure 1).

The SHEC Expansion Project includes the addition of a reclaimed water storage tank and pad, an oil storage shed and pad, water pumps associated with the reclaimed water tank and pad, and access pathways to provide ingress/egress to the proposed pads and equipment. An existing SW Pond located at the Seminole EMCC Facility will provide water quality treatment for runoff from the proposed access paths, reclaimed water tank pad, oil storage shed pad, and the pad associated with the reclaimed water tank pumps. Runoff will follow existing grade and sheet flow in the SW Pond.

This proposed amendment includes a request to 1) make minor changes to the SHCCF Certified Site boundary to add land for the reclaimed water storage tank and associated 88’ diameter pad, and a 32’ x 32’ waste oil storage shed, equipment and access pathway, and 2) incorporation of the Seminole EMCC Environmental Resource Permit (ERP) #51-0360052-001-EI into the SHCCF stormwater management system.

WSP USA Inc.
5411 SkyCenter Drive, Suite 650, Tampa, Florida 33607 T: +1 813 287 1717 F: +1 813 287-1716

SHCCF Certified Site Boundary – Minor Change

SHEC requests minor changes to the SHCCF Certified boundary as a result of the transfer of property between Seminole and SHEC. The minor changes to the SHCCF Certified boundary do not affect any of the SHCCF energy generation equipment or its ability to comply with the conditions of certification. The changes include the transfer of 0.92 acres from Seminole to SHEC. This area is being transferred to SHEC for the addition of the reclaimed water storage tank and pad, an oil storage shed and pad and water pumps associated with the reclaimed water tank and pad (Attachment 1 - Figures 2 and 3).

The total boundary change for SHCCF is a net addition of 0.92 acres (Attachment 1 - Figures 3 and 4). A copy of the warranty deed which documents the property transfer is provided in Attachment 1 – Figure 5.

SHCCF Stormwater Management Plan

The SHEC Expansion Project includes the addition of a reclaimed water storage tank and pad, an oil storage shed and pad, water pumps associated with the reclaimed water tank and pad, and access pathways to provide ingress/egress to the proposed pads and equipment. An existing SW Pond located at the Seminole EMCC Facility will provide water quality treatment for runoff from the proposed access paths, reclaimed water tank pad, oil storage shed pad, and the pad associated with the reclaimed water tank pumps. Runoff will follow existing grade and sheet flow in the SW Pond. The management and treatment of the proposed additions and associated additional impervious area have been incorporated into the Seminole EMCC Environmental Resource Permit (ERP) #51-0360052-002 (See Attachment 1). The Memorandum of Understanding which authorizes the use of the Seminole EMCC SW Pond is provided as Attachment 2.

SHEC appreciates your review and consideration of the proposed amendments. If you have any questions regarding this SCA amendment, please contact me at 727-403-2202.

Sincerely,

WSP USA Inc.

Manitia Moultrie

Project Director

MM/edk

Enclosures:

Attachment 1 – Property Transfer
- Figure 1 – SHCCF 2023 Certified Site
- Figure 2 – SHCCF Certified (DEPICTS PROPERTY TRANSFER)
- Figure 3 - SHCCF Certified Site (PROPOSED REVISION)
- Figure 4 – SHCCF Expansion Site Plan (PROPOSED REVISION)
- Exhibit 1 – SHCCF Survey, May 2023
- Exhibit 2 – SECI-SHEC Warranty Deed

Attachment 2 – SECI EMCC ERP #51-0360052-002 EM
Exhibit 1 – SECI EMCC ERP #51-0360052
Exhibit 2 - SECI-SHEC Memorandum of Understanding

ATTACHMENT 1

Property Transfer

Figure 1 – SHCCF 2023 Certified Site

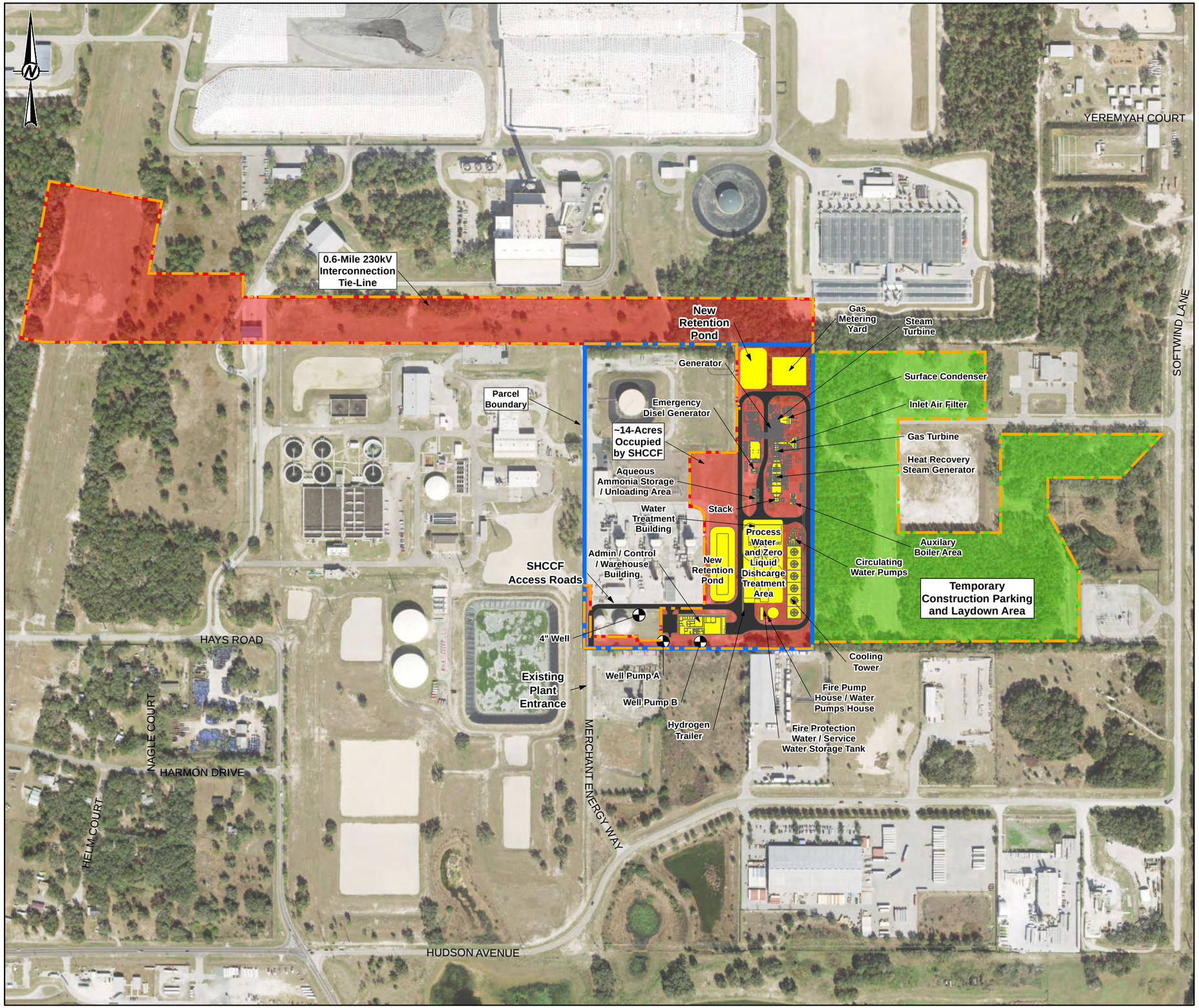
Figure 2 – SHCCF Certified (DEPICTS PROPERTY TRANSFER)

Figure 3 – SHCCF Certified Site (PROPOSED REVISION)

Figure 4 – SHCCF Expansion Site Plan (PROPOSED REVISION)

Exhibit 1 – SHCCF Survey

Exhibit 2 - Warranty Deed



LEGEND

- Existing Well Locations (Approximate) (Not Being Certified)
- SHCCF Layout
- SHCCF Major Components
- SHCCF Access Roads
- 30-Acre SHPC Parcel Boundary
- Temporary Construction Parking and Laydown Area (Not Being Certified)
- **Area to be Certified**
  - ~14-Acres Occupied by SHCCF
  - 0.6-Mile 230kV Interconnection Tie-Line
- **SHCCF Project**
  - ~14-Acres Occupied by SHCCF (To be Certified)
  - 0.6-Mile 230kV Interconnection Tie-Line (To be Certified)
  - Temporary Construction Parking and Laydown Area (Not Being Certified)

0 212.5 425 850

Feet

NOTE(S)

NOT INCLUDED IN SHCCF CERTIFIED SITE:
ONSITE NATURAL GAS METERING STATION OWNED BY FLORIDA GAS TRANSMISSION
THREE (3) ONSITE GROUNDWATER WELLS OWNED BY SHADY HILLS GENERATING STATION

REFERENCE(S)

EXISTING FACILITY FENCELINE, CERTIFIED SITE, SHCCF PROJECT, WSP USA INC., 2023.
PARCEL BOUNDARY, PASCO COUNTY, 2023.
SHCCF MAJOR COMPONENTS, POWER ENGINEERS, 2023.

SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY

CLIENT
SHADY HILLS ENERGY CENTER, LLC

PROJECT
SHADY HILLS COMBINED CYCLE FACILITY (SHCCF)
POST CERTIFICATION AMENDMENT

TITLE
SHCCF CERTIFIED SITE (2023 AMENDED)

CONSULTANT

YYYY-MM-DD	2024-05-03
DESIGNED	NRL
PREPARED	GFD
REVIEWED	MM
APPROVED	MM

PROJECT NO.	CONTROL	REV.	FIGURE
31405228.001	C007	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

1 in

0

G:\PROJECTS\GE_Energy_Systems\Shady_Hills\99_PROJECTS\1779520_Permit_Support\M_SCA_RAI\02_PRODUCTION\1779520_M003_ProjectSitePlan.mxd

LEGEND

- Certified Site Boundary
- Project Parcel Boundary

Land Conveyance

- SECI to SHEC Parcel

0 212.5 425 850

Feet

REFERENCE(S)

CERTIFIED SITE, WSP USA INC., 2023.
PARCEL BOUNDARY, PASCO COUNTY, 2024.
LAND CONVEYANCE, SURVTECH SOLUTIONS, INC., 2024.

SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY

CLIENT
SHADY HILLS ENERGY CENTER, LLC

PROJECT
SHADY HILLS COMBINED CYCLE FACILITY (SHCCF)
POST CERTIFICATION AMENDMENT

TITLE
SHCCF CERTIFIED (DEPICTS PROPERTY TRANSFER)

CONSULTANT

YYYY-MM-DD	2023-05-03
DESIGNED	NRL
PREPARED	GFD
REVIEWED	MM
APPROVED	MM

PROJECT NO.	CONTROL	REV.	FIGURE
31405228.001	C008	0	2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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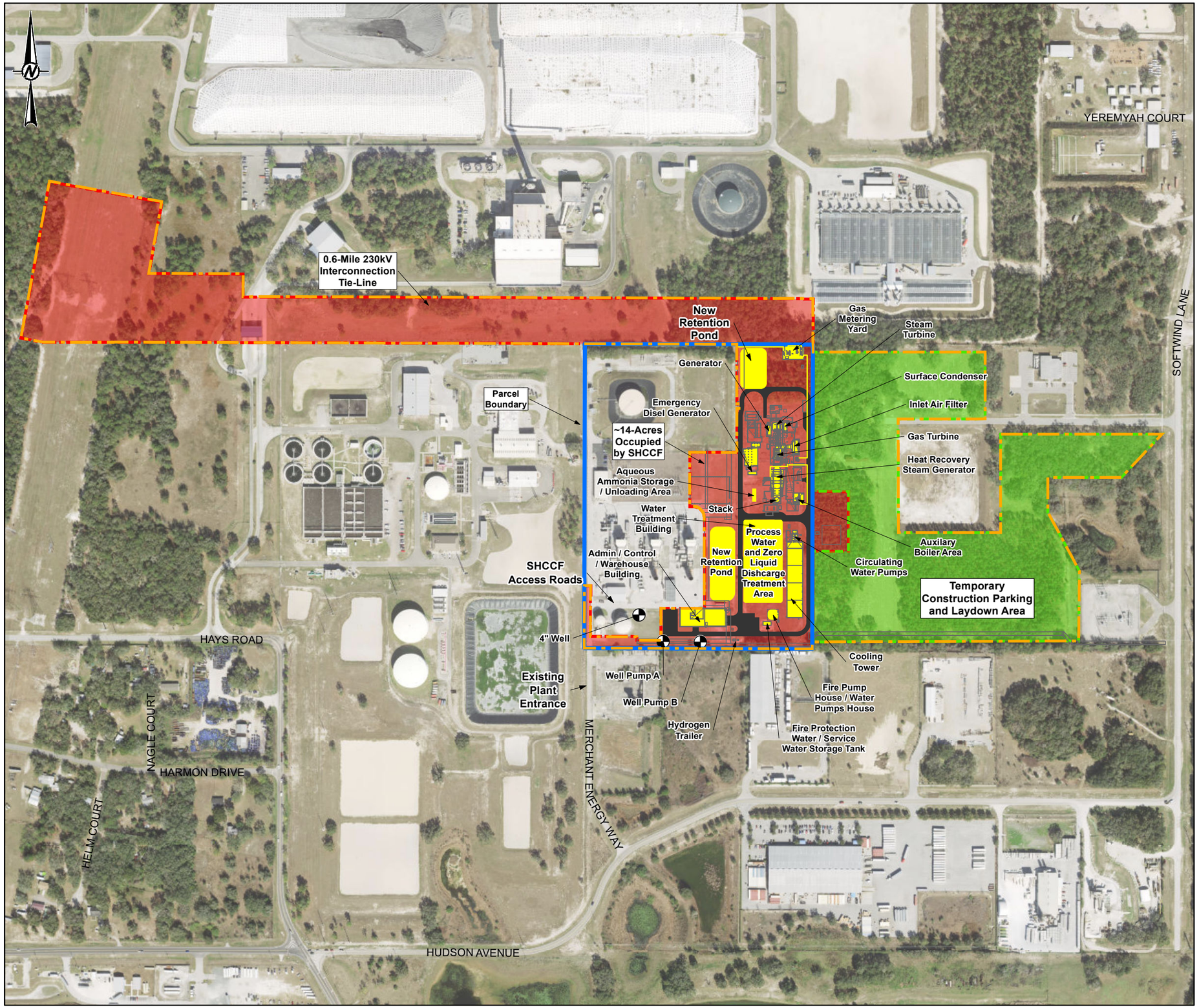

LEGEND

- Existing Well Locations (Approximate) (Not Being Certified)
- SHCCF Layout
- SHCCF Major Components
- SHCCF Access Roads
- 30-Acre SHPC Parcel Boundary
- Temporary Construction Parking and Laydown Area (Not Being Certified)
- **Area to be Certified**
  - ~14-Acres Occupied by SHCCF (includes the additional 0.925 acres)
  - 0.6-Mile 230kV Interconnection Tie-Line
- **SHCCF Project**
  - ~14-Acres Occupied by SHCCF (To be Certified)
  - 0.6-Mile 230kV Interconnection Tie-Line (To be Certified)
  - Temporary Construction Parking and Laydown Area (Not Being Certified)

0 212.5 425 850

Feet

NOTE(S)

NOT INCLUDED IN SHCCF CERTIFIED SITE:
ONSITE NATURAL GAS METERING STATION OWNED BY FLORIDA GAS TRANSMISSION
THREE (3) ONSITE GROUNDWATER WELLS OWNED BY SHADY HILLS GENERATING STATION

REFERENCE(S)

EXISTING FACILITY FENCELINE, CERTIFIED SITE, SHCCF PROJECT, WSP USA INC., 2024
PARCEL BOUNDARY, PASCO COUNTY, 2023.
SHCCF MAJOR COMPONENTS, POWER ENGINEERS, 2024.

SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY

CLIENT
SHADY HILLS ENERGY CENTER, LLC

PROJECT
SHADY HILLS COMBINED CYCLE FACILITY (SHCCF)
POST CERTIFICATION AMENDMENT

TITLE
SHCCF CERTIFIED SITE (PROPOSED REVISION)

CONSULTANT
wsp

YYYY-MM-DD	2024-05-03
DESIGNED	NRL
PREPARED	GFD
REVIEWED	MM
APPROVED	MM

PROJECT NO.	CONTROL	REV.	FIGURE
31405228.001	C009	0	3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 1in

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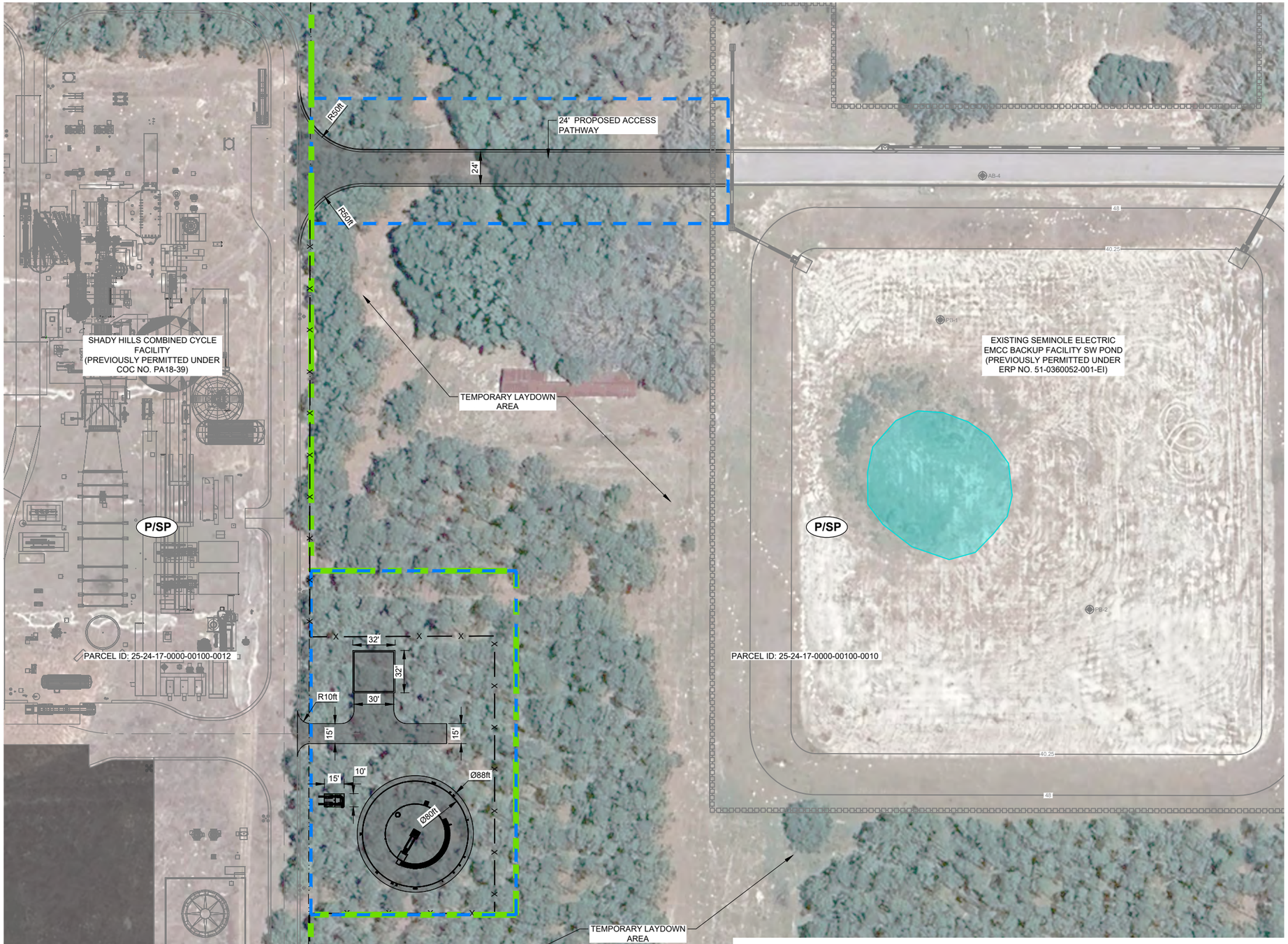

PROJECT COMPONENTS COVERAGE TABLE		
DESCRIPTION	**SQ. FT.**	**ACREAGE**
EXISTING IMPERVIOUS AREA (EMCC PROJECT)	110,206	2.53
PROPOSED ACCESS PATHWAYS	13,503	0.31
PROPOSED RECLAIMED WATER TANK PAD	6098.40	0.14
PROPOSED OIL STORAGE BUILDING AND PUMP PAD	1306.80	0.03
TOTAL IMPERVIOUS AREA	130,680	3.00
PROJECT BOUNDARY	70,567	1.62
PROPERTY BOUNDARY	648,608	14.89

SHADY HILLS ENERGY CENTER, LLC.
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

OWNER
SHADY HILLS ENERGY CENTER, LLC.

0 40 80
1" = 80' FEET

FUTURE LAND USE

P/SP PUBLIC/SEMIPUBLIC

THE PROJECT LIES WITHIN FLOOD ZONE X (AREA OF MINIMAL FLOOD HAZARD) AND FLOOD ZONE A (1% ANNUAL FLOOD CHANCE) AS IDENTIFIED ON FEMA PANEL No. 12101C0206F, EFFECTIVE DATE: 09/26/2014.

LEGEND

- PROJECT BOUNDARY
- PROPERTY BOUNDARY
- EXISTING FEATURES
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED ACCESS PATHWAYS/FOUNDATION PADS
- FLOODPLAIN - ZONE A

ISSUED FOR PERMITTING

NOTE(S)

1. AERIAL IMAGERY COURTESY OF GOOGLE EARTH DATED 06/30/2023.
2. BOUNDARY SURVEY DATA TAKEN FROM SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS, DATED 02/07/2024.

SEAL

CLIENT
SHADY HILLS ENERGY CENTER, LLC.

CONSULTANT
wsp

YYYY-MM-DD	2024-05-03
DESIGNED	MC/EWT
PREPARED	RS
REVIEWED	MC/BTH
APPROVED	BTH

PROJECT
SHADY HILLS COMBINED CYCLE FACILITY (SHCCF)
POST CERTIFICATION AMENDMENT

TITLE
SHCCF EXPANSION PROJECT SITE PLAN

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	C010	0	4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 1in

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Sketch & Description
SHEC Property & Reclaimed Tank
Shady Hills Combined Cycle Facility
Section 25, Township 24 South, Range 17 East
Pasco County, Florida

Legal Description: As Written by SurvTech Solutions

A parcel of land lying and being in the Northwest 1/4 of the Southeast 1/4 of Section 25, Township 24 South, Range 17 East, Pasco County, Florida, being more particularly described as follows:

COMMENCE at a point marking the Southwest corner of the Northwest 1/4 of the Southeast 1/4 of Section 25, Township 24 South, Range 17 East, Pasco County, Florida, thence coincident with the South boundary of the Northwest 1/4 of the Southeast 1/4 of said Section 25, S 89°48'05" E a distance of 227.82 feet to the POINT OF BEGINNING; thence departing said South boundary N 00°12'46" E a distance of 35.00 feet; thence S 89°48'05" E a distance of 104.85 feet; thence N 00°12'46" E a distance of 138.91 feet; thence S 89°47'14" E a distance of 185.94 feet; thence N 00°12'46" E a distance of 393.49 feet to a point coincident with a tangent curve concave to the Southwest, said curve having a radius of 50.00 feet, a delta angle of 90°00'00" and being subtended by a chord bearing N 44°47'14" W for a distance of 70.71 feet; thence coincident with the arc of said curve a distance of 78.54 feet; thence N 89°47'14" W a distance of 14.51 feet; thence N 00°25'38" E a distance of 233.93 feet; thence S 89°47'14" E a distance of 204.07 feet to a point coincident with the West boundary of the West 1/2 of the Northeast 1/4 of the Northwest 1/4 of the Southeast 1/4 of said Section 25; thence coincident with said West boundary, N 00°03'22" E a distance of 468.97 feet to a point coincident with the North boundary of the Northwest 1/4 of the Southeast 1/4 of said Section 25; thence departing said West boundary coincident with said North Boundary, S 89°47'14" E a distance of 330.16 feet to a point marking the Northeast corner of the West 1/2 of the Northeast 1/4 of the Northwest 1/4 of the Southeast 1/4 of said Section 25; thence departing said North boundary, coincident with the East boundary of the West 1/2 of the Northeast 1/4 of the Northwest 1/4 of the Southeast 1/4 of said Section 25, S 00°02'10" W a distance of 636.48 feet; thence departing said East boundary, S 89°57'50" E a distance of 155.00 feet; thence S 00°02'10" W a distance of 260.00 feet; thence N 89°57'50" W a distance of 155.00 feet to a point coincident with the East boundary of the West 1/2 of the Southeast 1/4 of the Northwest 1/4 of the Southeast 1/4 of said Section 25; thence coincident with said East boundary, S 00°02'10" W a distance of 423.66 feet to a point marking the Southeast corner of the West 1/2 of the Southeast 1/4 of the Northwest 1/4 of the Southeast 1/4 of said Section 25; thence departing said East boundary coincident with the South boundary of the Northwest 1/4 of the Southeast 1/4 of said Section 25, N 89°48'05" W a distance of 764.18 feet to the POINT OF BEGINNING.

Containing an area of 648,543.66 square feet, 14.889 acres, more or less.

SURVEY NOTES:

1.) Paper copies of this survey are not valid without the original signature and raised seal of a Florida Licensed Surveyor and Mapper. Digital copies are not valid without the digital signature of a Florida Licensed Surveyor and Mapper.
2.) The bearing structure for this survey is based on a Florida West State Plane grid bearing of S 89°48'05" E for the South Boundary of the NW 1/4 of the SE 1/4 of Section 25-24S-17E.
3.) THIS IS NOT A BOUNDARY SURVEY.

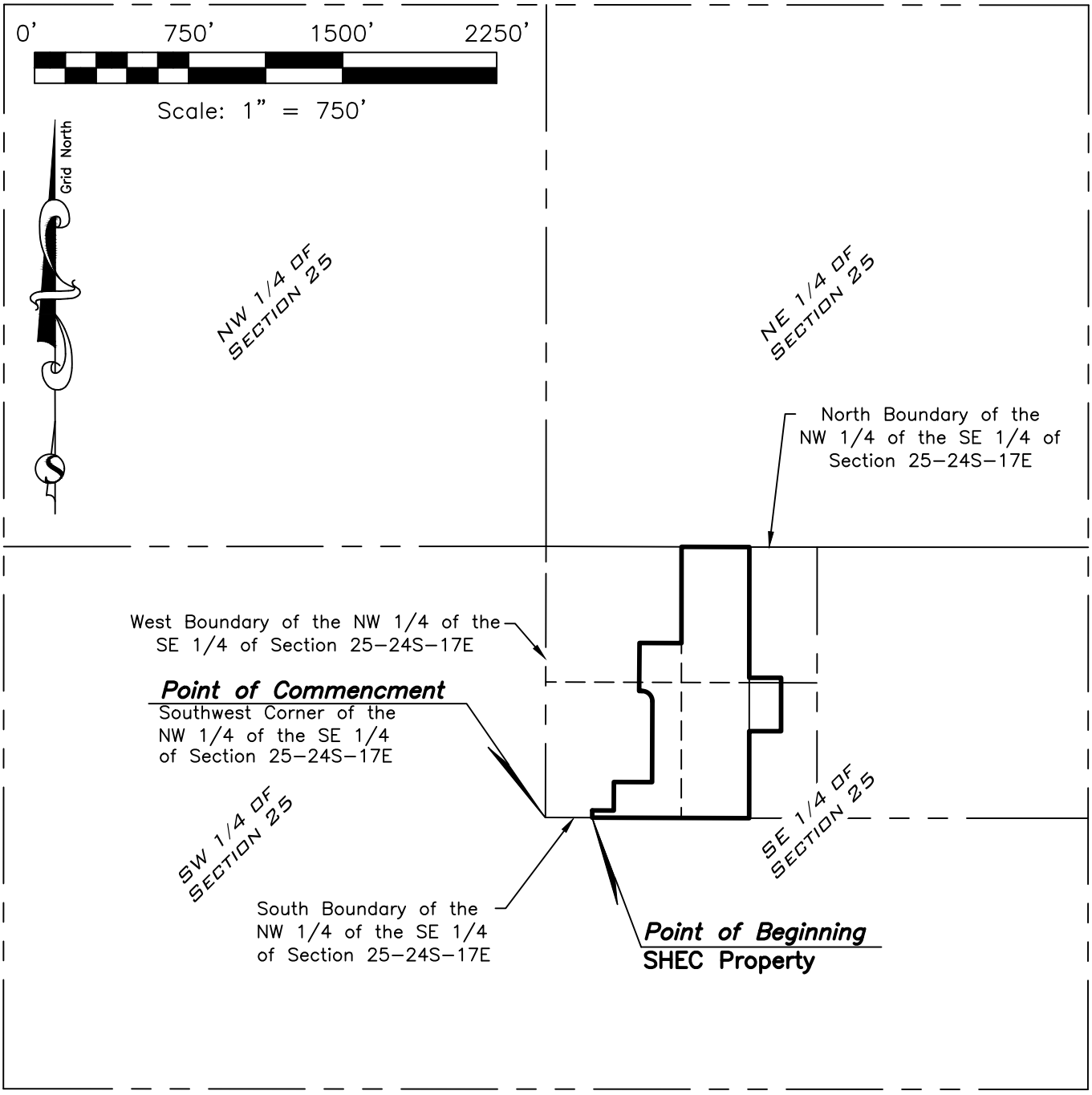
Stacy L. Brown P.S.M. No. 6516
SurvTech Solutions, Inc. LB No. 7340

Drafted By: M. Rook	*Approved By: S. Brown*	*Last Field Date: N/A*	*Project No.: 231578*	*Drawing Name: 231578 ESMT 13*
Date Drafted: 10/26/23	*Date Approved: 10/27/23*	*Field Book/Page: N/A*	*Ref. No.: 230268*	*Revision Date: 02/07/24*

SURVEYING TODAY WITH TOMORROW'S TECHNOLOGY

SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS
10220 U.S. Highway 92 East, Tampa, FL 33610
phone: (813)-621-4929, fax: (813)-621-7194, Licensed Business #7340
email: sbrown@survtechsolutions.com http://www.survtechsolutions.com

Sketch & Description
SHEC Property & Reclaimed Tank
Shady Hills Combined Cycle Facility
Section 25, Township 24 South, Range 17 East
Pasco County, Florida

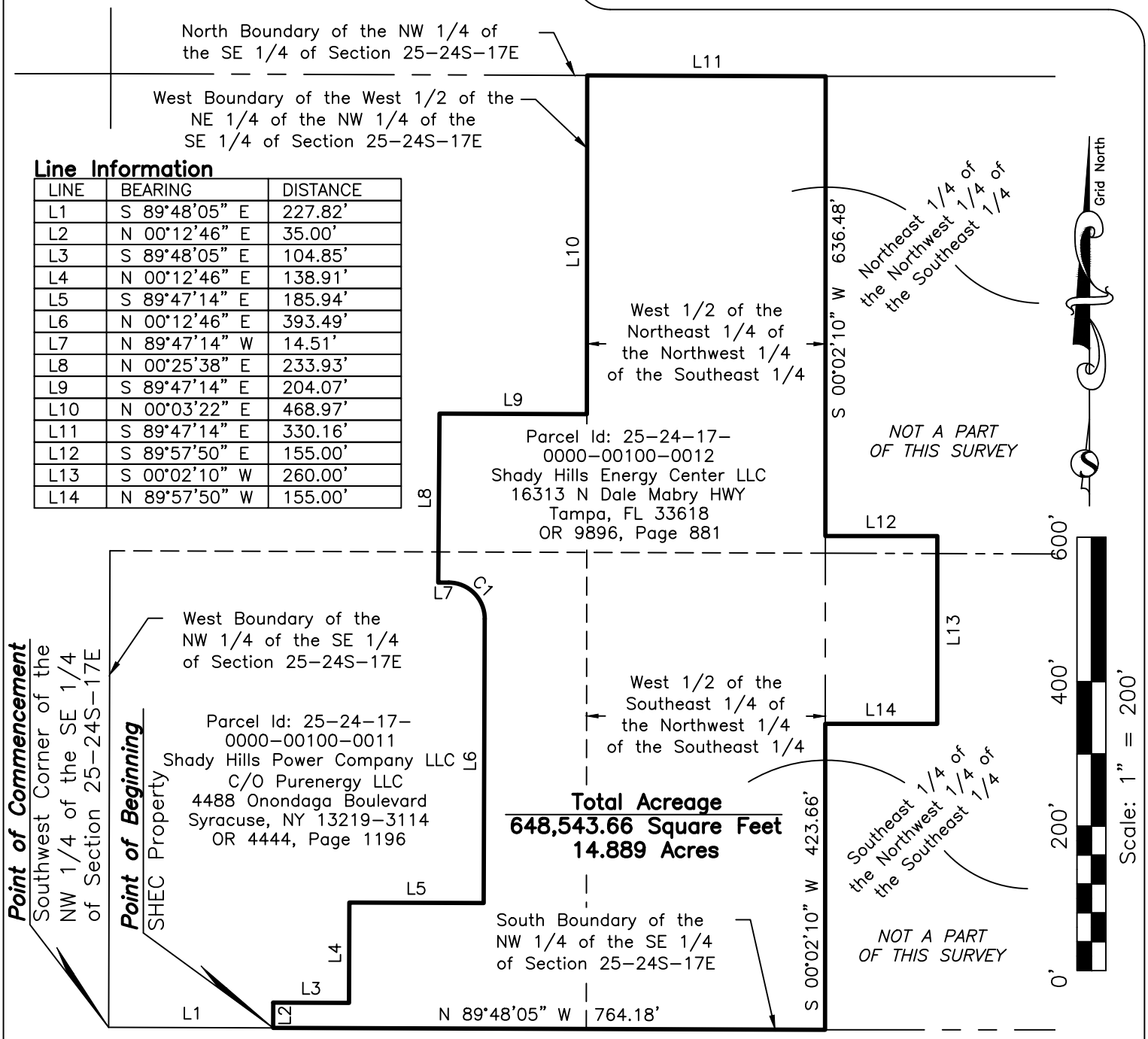


THIS IS NOT A FIELD SURVEY

PROJECT NO.: 231578
REF. No.: 230268
LAST FIELD DATE: N/A

SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS
10220 U.S. Highway 92 East, Tampa, FL 33610
phone: (813)–621–4929, fax: (813)–621–7194, Licensed Business #7340
email: sbrown@survtechsolutions.com http://www.survtechsolutions.com

Sketch & Description
SHEC Property & Reclaimed Tank
Shady Hills Combined Cycle Facility
Section 25, Township 24 South, Range 17 East
Pasco County, Florida



Line Information

LINE	BEARING	DISTANCE
L1	S 89°48'05" E	227.82'
L2	N 00°12'46" E	35.00'
L3	S 89°48'05" E	104.85'
L4	N 00°12'46" E	138.91'
L5	S 89°47'14" E	185.94'
L6	N 00°12'46" E	393.49'
L7	N 89°47'14" W	14.51'
L8	N 00°25'38" E	233.93'
L9	S 89°47'14" E	204.07'
L10	N 00°03'22" E	468.97'
L11	S 89°47'14" E	330.16'
L12	S 89°57'50" E	155.00'
L13	S 00°02'10" W	260.00'
L14	N 89°57'50" W	155.00'

Curve Information

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH	DELTA ANGLE	TANGENT
C1	50.00'	78.54'	N 44°47'14" W	70.71'	90°00'00"	50.00'

THIS IS NOT A FIELD SURVEY

PROJECT NO.: 231578
REF. No.: 230268
LAST FIELD DATE: N/A

SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS
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phone: (813)-621-4929, fax: (813)-621-7194, Licensed Business #7340
email: sbrown@survtechsolutions.com http://www.survtechsolutions.com

Sketch & Description
Reclaimed Water Tank Parcel
SECI to SHEC
Section 25, Township 24 South, Range 17 East
Pasco County, Florida

Reclaimed Water Tank Parcel: As Written by SurvTech Solutions

A parcel of land lying and being in the Northwest 1/4 of the Southeast 1/4 of Section 25, Township 24 South, Range 17 East, Pasco County, Florida, being more particularly described as follows:

COMMENCE at a point marking the Southwest corner of the Northwest 1/4 of the Southeast 1/4 of Section 25, Township 24 South, Range 17 East, Pasco County, Florida; thence coincident with the South boundary of the Northwest 1/4 of the Southeast 1/4 of said Section 25, S 89°48'05" E a distance 992.00 feet to a point coincident with the West boundary of the lands described in Official Records Book 9650, Page 1858 of the Public Records of Pasco County, Florida; thence departing said South boundary, coincident with said West boundary, N 00°02'10" E a distance of 423.66 feet to the POINT OF BEGINNING; thence continue coincident with said West boundary, N 00°02'10" E a distance of 260.00 feet; thence departing said West boundary, S 89°57'50" E a distance of 155.00 feet; thence S 00°02'10" W a distance of 260.00 feet; thence N 89°57'50" W a distance of 155.00 feet to the POINT OF BEGINNING.

Containing an area of 40,300.00 square feet, 0.925 acres, more or less.

SURVEY NOTES:

1.) Paper copies of this survey are not valid without the original signature and raised seal of a Florida Licensed Surveyor and Mapper. Digital copies are not valid without the digital signature of a Florida Licensed Surveyor and Mapper.
2.) The bearing structure for this survey is based on a Florida West State Plane grid bearing of S 89°48'05" E for the South Boundary of the NW 1/4 of the SE 1/4 of Section 25–24S–17E.
3.) THIS IS NOT A BOUNDARY SURVEY.

Stacy L. Brown P.S.M. No. 6516
SurvTech Solutions, Inc. LB No. 7340

Drafted By: M. Rook	*Approved By: S. Brown*	*Last Field Date: N/A*	*Project No.: 231578*	*Drawing Name: 231578 ESMT 16*
Date Drafted: 12/15/23	*Date Approved: 12/21/23*	*Field Book/Page: N/A*	*Ref. No.: 230268*	*Revision Date: 1/11/24*

SURVEYING TODAY WITH TOMORROW'S TECHNOLOGY

SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS
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phone: (813)–621–4929, fax: (813)–621–7194, Licensed Business #7340
email: sbrown@survtechsolutions.com http://www.survtechsolutions.com

Sketch & Description
Reclaimed Water Tank Parcel
SECI to SHEC
Section 25, Township 24 South, Range 17 East
Pasco County, Florida

Line Information

LINE	BEARING	DISTANCE
L1	N 00°02'10" E	260.00'
L2	S 89°57'50" E	155.00'
L3	S 00°02'10" W	260.00'
L4	N 89°57'50" W	155.00'

West Boundary of the lands Described in OR Book 9896, Page 881

West Boundary of the NW 1/4 of the SE 1/4 of Section 25–24S–17E

West Boundary of the Lands Described in OR book 9650, Page 1858

Grid North

Scale: 1" = 200'

0' 200' 400' 600'

Parcel Id: 25–24–17–0000–00100–0012
Shady Hills Energy Center LLC
16313 N Dale Mabry HWY
Tampa, FL 33618
OR 9896, Page 881

Parcel Id: 25–24–17–0000–00100–0011
Shady Hills Power Company LLC
C/O Purenergy LLC
4488 Onondaga Boulevard
Syracuse, NY 13219–3114
OR 4444, Page 1196

Reclaimed Water Tank Parcel
Total Acreage
40,300.00 Square Feet
0.925 Acres

L1 L2 L3 L4

Point of Commencement
Southwest Corner of the NW 1/4 of the SE 1/4 of Section 25–24S–17E

Point of Beginning
Reclaimed Water Tank Parcel

N 00°02'10" E 423.66'

Parcel Id: 25–24–17–0000–00100–0010
Seminole Electric Cooperative INC
16313 N Dale Mabry HWY
Tampa, FL 33618
OR Book 9650, Page 1858

South Boundary of NW 1/4 of the SE 1/4 of Section 25–24S–17E

S 89°48'05" E 992.00' (Bearing Basis)

Parcel Id: 25–24–17–0000–00100–0060
Ewell Industries INC C/O Cemex Property Tax Dept
PO Box 2883
West Palm Beach, FL 33402

Parcel Id: 25–24–17–0020–00000–0110
Suncoast Lots 579 LLC
Attn: Tax Dept
PO BOX 757
Carthage, MO 64836

Parcel Id: 25–24–17–0020–00000–0100
Stonecapp, LLC
1180 Ponce de Leon Blvd
STE 801A
Clearwater, FL 33756–1031

Parcel Id: 25–24–17–0020–00000–0080
Rebar Properties–Pasco II LLC
PO BOX 247
Seffner, FL 33583–0247

THIS IS NOT A FIELD SURVEY

PROJECT NO.: 231578
REF. No.: 230268
LAST FIELD DATE: N/A

SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS
10220 U.S. Highway 92 East, Tampa, FL 33610
phone: (813)–621–4929, fax: (813)–621–7194, Licensed Business #7340
email: sbrown@survtechsolutions.com http://www.survtechsolutions.com

THIS INSTRUMENT WAS PREPARED BY:

David Ferrentino, Esq.
Seminole Electric Cooperative, Inc.
16313 N. Dale Mabry Highway
Tampa, Florida 33618

Parcel ID Number: 25-24-17-0000-00100-0010

SPECIAL WARRANTY DEED

THIS INDENTURE, made this 2nd day of July, 2024, between Seminole Electric Cooperative, Inc., a Florida generation and transmission cooperative corporation, whose address is 16313 N. Dale Mabry Highway, Tampa, Florida 33618 ("Grantor"), and Shady Hills Energy Center, LLC, a Delaware limited liability company, whose address is 16313 N. Dale Mabry Highway, Tampa, Florida 33618 ("Grantee"):

WITNESSETH THAT:

Grantor, for and in consideration of the sum of Ten and No/100 U.S. Dollars ($10.00), lawful money of the United States of America, to it in hand paid by the Grantee, and for other good and valuable consideration, the receipt of which is hereby acknowledged, has granted, bargained, sold, alienated, remised, released, conveyed and confirmed and by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee and its successors and assignees forever, the following parcel of land, situate, lying and being in the County of Pasco ("County"), State of Florida, and more particularly described as follows:

SEE **EXHIBIT A** ATTACHED HERETO AND MADE A PART HEREOF (the "Land").

SUBJECT TO AND TOGETHER WITH, HOWEVER, THE FOLLOWING:

1. Real property taxes and assessments for the year 2024 and for subsequent years.

2. Zoning and other regulatory laws and ordinances affecting the Land.

3. Easements, reservations, restrictions, rights of way, and other matters of record to the extent valid and subsisting and burdening the Land, if any, without re-imposing the same.

TOGETHER with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in any way appertaining.

TO HAVE AND TO HOLD the same, unto the said Grantee, its successors and assigns, in fee simple forever.

AND the Grantor hereby covenants with said Grantee that it is lawfully seized of the Land hereby conveyed in fee simple; that it has good right and lawful authority to sell and convey said Land; that it hereby specially warrants the title to said Land and will defend the same against the lawful claims of any persons claiming by, through or under the said Grantor but against no others.

[TEXT AND SIGNATURES FOLLOW]

IN WITNESS WHEREOF, Grantor has caused these presents to be signed in its name by its proper officers, and its corporate seal to be affixed, the day and year first above written.

Seminole Electric Cooperative, Inc., a Florida generation and transmission cooperative corporation

WITNESSES:

Print Name: Charles Wobbena
Address: 16313 N. Dale Mabry Hwy
Tampa, Fl 33618

Print Name: SHAYLA MCNEILL
Address: 16313 N Dale Mabry
Tampa, Fl 33618

By: _____
Print Name: Lisa D. Johnson
Title: CEO & General Manager
Address: 16313 N Dale Mabry
Tampa, Fl 33618

STATE OF Florida

COUNTY OF Hillsborough

The foregoing Special Warranty Deed was acknowledged before me by means of (✓) physical presence or ( ) online notarization this 2nd day of July, 2024, by Lisa Johnson, as CEO + GM of Seminole Electric Cooperative, Inc., a Delaware limited liability company, for and on behalf of the company, who (✓) is personally known to me, or ( ) produced _____ as identification.

SHERRIE MATTHEWS NOTARY PUBLIC MY COMMISSION EXPIRES 6-5-2027 STATE OF FLORIDA COMMISSION NUMBER HH 373685

_____
Signature of Notary Public
Sherrie L Matthews
Printed Name of Notary Public

EXHIBIT A
LEGAL DESCRIPTION OF LAND

Sketch & Description
Reclaimed Water Tank Parcel
SECI to SHEC
Section 25, Township 24 South, Range 17 East
Pasco County, Florida

Reclaimed Water Tank Parcel: As Written by SurvTech Solutions

A parcel of land lying and being in the Northwest 1/4 of the Southeast 1/4 of Section 25, Township 24 South, Range 17 East, Pasco County, Florida, being more particularly described as follows:

COMMENCE at a point marking the Southwest corner of the Northwest 1/4 of the Southeast 1/4 of Section 25, Township 24 South, Range 17 East, Pasco County, Florida; thence coincident with the South boundary of the Northwest 1/4 of the Southeast 1/4 of said Section 25, S 89°48'05" E a distance 992.00 feet to a point coincident with the West boundary of the lands described in Official Records Book 9650, Page 1858 of the Public Records of Pasco County, Florida; thence departing said South boundary, coincident with said West boundary, N 00°02'10" E a distance of 423.66 feet to the POINT OF BEGINNING; thence continue coincident with said West boundary, N 00°02'10" E a distance of 260.00 feet; thence departing said West boundary, S 89°57'50" E a distance of 155.00 feet; thence S 00°02'10" W a distance of 260.00 feet; thence N 89°57'50" W a distance of 155.00 feet to the POINT OF BEGINNING.

Containing an area of 40,300.00 square feet, 0.925 acres, more or less.

SURVEY NOTES:

1.) Paper copies of this survey are not valid without the original signature and raised seal of a Florida Licensed Surveyor and Mapper. Digital copies are not valid without the digital signature of a Florida Licensed Surveyor and Mapper.
2.) The bearing structure for this survey is based on a Florida West State Plane grid bearing of S 89°48'05" E for the South Boundary of the NW 1/4 of the SE 1/4 of Section 25-24S-17E.
3.) THIS IS NOT A BOUNDARY SURVEY.

Stacy L. Brown P.S.M. No. 6516
SurvTech Solutions, Inc. LB No. 7340

Drafted By: M. Rook	*Approved By: S. Brown*	*Last Field Date: N/A*	*Project No.: 231578*	*Drawing Name: 231578 ESMT 16*
Date Drafted: 12/15/23	*Date Approved: 12/21/23*	*Field Book/Page: N/A*	*Ref. No.: 230268*	*Revision Date: 1/11/24*

SURVEYING TODAY WITH TOMORROW'S TECHNOLOGY

SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS
10220 U.S. Highway 92 East, Tampa, FL 33610
phone: (813)-621-4929, fax: (813)-621-7194, Licensed Business #7340
email: sbrown@survtechsolutions.com http://www.survtechsolutions.com

Sketch & Description
Reclaimed Water Tank Parcel
SECI to SHEC
Section 25, Township 24 South, Range 17 East
Pasco County, Florida

Line Information

LINE	BEARING	DISTANCE
L1	N 00°02'10" E	260.00'
L2	S 89°57'50" E	155.00'
L3	S 00°02'10" W	260.00'
L4	N 89°57'50" W	155.00'

West Boundary of the lands Described in OR Book 9896, Page 881

West Boundary of the NW 1/4 of the SE 1/4 of Section 25-24S-17E

West Boundary of the Lands Described in OR book 9650, Page 1858

Parcel Id: 25-24-17-0000-00100-0011
Shady Hills Power Company LLC
C/O Purenergy LLC
4488 Onondaga Boulevard
Syracuse, NY 13219-3114
OR 4444, Page 1196

Parcel Id: 25-24-17-0000-00100-0012
Shady Hills Energy Center LLC
16313 N Dale Mabry HWY
Tampa, FL 33618
OR 9896, Page 881

Reclaimed Water Tank Parcel
Total Acreage
40,300.00 Square Feet
0.925 Acres

L1, L2, L3, L4

Point of Commencement
Southwest Corner of the NW 1/4 of the SE 1/4 of Section 25-24S-17E

Point of Beginning
Reclaimed Water Tank Parcel

N 00°02'10" E 423.66'

Parcel Id: 25-24-17-0000-00100-0010
Seminole Electric Cooperative INC
16313 N Dale Mabry HWY
Tampa, FL 33618
OR Book 9650, Page 1858

South Boundary of NW 1/4 of the SE 1/4 of Section 25-24S-17E

S 89°48'05" E 992.00' (Bearing Basis)

Parcel Id: 25-24-17-0000-00100-0060
Ewell Industries INC C/O
Cemex Property Tax Dept
PO Box 2883
West Palm Beach, FL 33402

Parcel Id: 25-24-17-0020-00000-0110
Suncoast Lots 579 LLC
Attn: Tax Dept
PO BOX 757
Carthage, MO 64836

Parcel Id: 25-24-17-0020-00000-0100
Stonecapp, LLC
1180 Ponce de Leon Blvd
STE 801A
Clearwater, FL 33756-1031

Parcel Id: 25-24-17-0020-00000-0080
Rebar Properties-Pasco II LLC
PO BOX 247
Seffner, FL 33583-0247

THIS IS NOT A FIELD SURVEY

PROJECT NO.: 231578
REF. No.: 230268
LAST FIELD DATE: N/A

SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS
10220 U.S. Highway 92 East, Tampa, FL 33610
phone: (813)-621-4929, fax: (813)-621-7194, Licensed Business #7340
email: sbrown@survtechsolutions.com http://www.survtechsolutions.com

ATTACHMENT 2

SHEC Expansion Project

Exhibit 1 – SECI EMCC ERP #51-0360052

Exhibit 2 - SECI-SHEC Memorandum of Understanding

Memorandum of Understanding

This Memorandum of Understanding ("MOU") is entered into by and between **SEMINOLE ELECTRIC COOPERATIVE, INC.**, a Florida generation and transmission cooperative corporation ("SECI"), and **SHADY HILLS ENERGY CENTER, LLC**, a Delaware limited liability company ("SHEC") (collectively the "Parties").

1. SECI is the owner in fee simple of certain real property situated in the Count of Pasco, State of Florida and identified as Parcel ID No. 17, 25-24-17-0000-00100-00 (the "Seminole Property").

2. SHEC is the owner in fee simple of that certain approximately 13.956-acre tract immediately adjacent to the Seminole Property and identified as Parcel ID No. 25-24-17-0000-00100-0012, upon which SHEC is constructing a natural gas-fired electric power generation facility (the "SHEC Facility").

3. In order to facilitate construction and operation of the SHEC Facility, SHEC desires to use an existing stormwater retention basin on the Seminole Property (the "Stormwater Retention Basin") to retain stormwater runoff from a certain portion of the SHEC Facility (the "Reclaimed Tank Area"). SECI supports SHEC's use of the Stormwater Retention Basin in order to comply with the requirements of the Florida Department of Environmental Protection concerning stormwater management.

4. In order to effectuate this arrangement, SECI will provide SHEC with an easement for use of the Stormwater Retention Basin. The Parties agree that they will work in good faith to prepare the necessary documentation with the expectation that the documentation will be completed and executed by August 31, 2024.

SEMINOLE ELECTRIC COOPERATIVE, INC.,
a Florida generation and transmission cooperative corporation

By: _____
Name: JO FULLER
Title: VP & CFO

SHADY HILLS ENERGY CENTER, LLC,
a Delaware limited liability company

By: _____
Name: _____
Title: _____

FLORIDA DEPARTMENT OF Environmental Protection

Southwest District
13051 North Telecom Parkway #101
Temple Terrace, Florida 33637-0926

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Alexis A. Lambert
Secretary

January 6, 2025

Seminole Electric Cooperative, Inc.
% David Ferrentino
16313 Dale Mabry Highway
Tampa, Florida 34618
dferrentino@seminole-electric.com

File No.: 51-0360052-002-EM, Pasco County

Dear David Ferrentino:

Your request to modify permit number 51-0360052-001 has been reviewed by Department staff. The modifications include extending the expiration date of the permit's construction phase from March 1, 2023, to February 1, 2027, adding a reclaimed water storage tank and pad with water pumps, an oil storage shed and pad, and an access pathway extension east of the Shady Hills Energy Center, with no proposed changes to the existing stormwater management system. The proposed activities are located within the landward extent of Buckhorn Creek, a Class III Florida Waterbody. The above changes are not expected to adversely affect water quality and will not be contrary to the public interest provided the following activity description and permit specific conditions are amended/added (~~strikethroughs~~ are deletions and underlines are additions) to the permit as issued:

PROJECT DESCRIPTION

The permittee is authorized to construct an EMCC backup facility and entry road from Softwind Lane within a currently vacant, 43.4-acre site. The proposed facility consists of an Emergency Operations Center (EOC) office and 0.26-acre stormwater pond (EOC pond), an undeveloped area designated for a future electrical substation, and an adjacent, 4.21-acre stormwater pond (SW pond). Additional authorization includes constructing a reclaimed water storage tank and pad with water pumps, an oil storage shed and pad, and an access pathway extension east of the Shady Hills Energy Center. ~~Three~~ Two future development areas within the site are proposed for inclusion in subsequent permit modifications.

Site development related to the proposed facility includes an approximate 10-acre project footprint with 2.26 acres of impervious area for the EOC office, pole barn, potable water meter, asphalt roadway, parking area, and concrete sidewalks. The reclaimed water storage tank and pad with water pumps, oil storage shed and pad, and access pathway add an additional 0.48 acres of

impervious area, bringing the total site to 3.01 acres of impervious area, which is supported by the current stormwater management system based on the provided calculations. The proposed roadway and parking areas will be graded towards various storm inlets for conveyance. Throughout the site, overland and shallow concentrated flow will transport runoff to structures and underground pipes which ultimately discharge to the EOC and SW ponds.

The proposed site is in a closed basin in the Pithlachascotee River/Bear Creek Watershed; therefore, both stormwater ponds were designed to provide discharge rate attenuation and water quality treatment for the 100-year, 24-hour design storm event. The ponds are designed to treat runoff from the first one-half inch of rainfall, with the total treatment volume available again within 72 hours. Previous studies identified a small, 0.40-acre wetland within the project area that will be incorporated into the proposed SW pond. Future site development outside the project limits will incorporate another small wetland into a 3.05-acre stormwater pond.

Other than minor isolated wetland impacts associated with stormwater pond construction, a majority of site development will occur outside of the 100-year floodplain. No net loss or other adverse impacts to the floodplain are proposed or authorized. Authorized activities are depicted on the attached exhibits.

SPECIFIC CONDITIONS

1. Submittals required herein (e.g., progress reports, as-built drawings, etc.) shall include the permittee's name and permit number 51-0360052-001-EI and 51-0360052-002-EM, and shall be directed by e-mail to SW_ERP@dep.state.fl.us with a subject line of "Compliance: permit number 51-0360052-001-EI and 51-0360052-002-EM", or by mail to:

   Department of Environmental Protection
   Southwest District
   ATTN: ERP Compliance Assurance
   13051 North Telecom Parkway, Suite 101
   Temple Terrace, FL 33637-0926

SPECIFIC CONDITIONS - PRIOR TO ANY CONSTRUCTION

6. Best management practices for erosion control shall be implemented prior to construction commencement and shall always be maintained during construction to prevent siltation and turbid discharges exceeding State water quality standards (>29 NTU's above background), pursuant to Rule 62-302, F.A.C. Methods may include, but are not limited to, the use of staked hay bales, staked filter cloth, sodding, seeding, staged construction and the Installation of turbidity screens around the immediate project site. Erosion control methods shall be implemented as detailed and depicted in Sheet(s) C-2, C-10, C-17, 7 and 8 of the attached permit drawings.

SPECIFIC CONDITIONS- CONSTRUCTION COMPLETION

20. The permittee shall submit one set of signed, dated and sealed as-built drawings to the Department via email at SW_ERP@dep.state.fl.us for review and approval within 30 days of completion of construction. (Please contact the Department for files that are too large to email for alternative means of submitting electronically.) The as-built drawings shall be based on the Department permitted construction drawings and any pertinent specific conditions, which should be revised to reflect changes made during construction. Both the original design and constructed elevations must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. Surveyed dimensions and elevations required shall be verified and signed, dated and sealed by a Florida registered professional. *As-builts shall be submitted to the Department regardless of whether deviations are present or not. In addition, the permittee shall submit the "As-Built Certification and Request for Conversion to Operation Phase" form (Ch. 62-330.310(1), F.A.C.); as required in General Condition #6.*

The following information shall be verified on the as-built drawings from the engineering drawings signed and sealed by Christopher E. Weddle, P.E., #35446, on February 27, 2018:

Plan View/ Cross Section Name	Drawing Number
Grading Plan	C-5 – C-7
Utility and Drainage Plan	C-8, C-9
Roadway-Drainage Cross Sections	C-13

The following information shall be verified on the as-built drawings from the engineering drawings signed and sealed by George W. Corning, P.E., #79293 on November 5, 2024.

Plan View/ Cross Section Name	Drawing Number
Site Plan	Sheet 3
Post Development Drainage Plan	Sheet 5
Grading Plan	Sheet 6
Erosion Control Plan	Sheet 7
Erosion Control Details	Sheet 8
Access Pathway Details and Sections	Sheet 9

Since the proposed modification with the above permit conditions is not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as requested. By copy of this letter and the attached drawings, we are notifying all necessary parties of the modification(s).

This letter of approval does not alter the , remaining Specific Conditions, General Conditions of the permit. This letter and accompanying drawings must be attached to the original permit.

RIGHTS OF AFFECTED PARTIES

This permit modification are hereby granted. This action is final and effective on the date filed with the Clerk of the Department unless a sufficient petition for an administrative hearing is timely filed under sections 120.569 and 120.57 of the Florida Statutes as provided below. If a sufficient petition for an administrative hearing is timely filed, this action automatically becomes only proposed agency action on the application, subject to the result of the administrative review process. Therefore, on the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department.

Mediation is not available.

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Under rule 62-110.106(4) of the Florida Administrative Code, a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon. If a request is filed late, the Department may still grant it upon a motion by the requesting party showing that the failure to file a request for an extension of time before the deadline was the result of excusable neglect.

If a timely and sufficient petition for an administrative hearing is filed, other persons whose substantial interests will be affected by the outcome of the administrative process have the right to petition to intervene in the proceeding. Intervention will be permitted only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

In accordance with rule 62-110.106(3), Florida Administrative Code, petitions for an administrative hearing by the applicant must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within 14 days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition for an administrative hearing within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
(c) A statement of when and how the petitioner received notice of the agency decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

Under sections 120.569(2)(c) and (d) of the Florida Statutes, a petition for administrative hearing must be dismissed by the agency if the petition does not substantially comply with the above requirements or is untimely filed.

This permit modification constitutes an order of the Department. Subject to the provisions of paragraph 120.68(7)(a) of the Florida Statutes, which may require a remand for an administrative hearing, the applicant has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the order is filed with the Clerk of the Department. The applicant, or any party within the meaning of section 373.114(1)(a) or 373.4275 of the Florida Statutes, may also seek appellate review of the order before the Land and Water Adjudicatory Commission under section 373.114(1) or 373.4275 of the Florida Statutes. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when the order is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Stefaney Pover
Engineering Specialist III
Permitting and Waste Cleanup Program
Southwest District

Copies furnished to:
ERP Permitting, Southwest District, SW_ERP@FloridaDEP.gov
Amy Nornin, Southwest District, Amy.Nornin@FloridaDEP.gov
Blake Holcomb, WSP USA Inc., blake.holcomb@wsp.com

Attachments:
1. Project Drawings, 9 pages
2. Environmental Resource Permit No. 51-0360052-001-EI (original permit), 44 pages

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit modification, including all copies, were mailed before the close of business on January 6, 2025, to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, under 120.52(7) of the Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk

January 6, 2025
Date

SHADY HILLS ENERGY CENTER EXPANSION

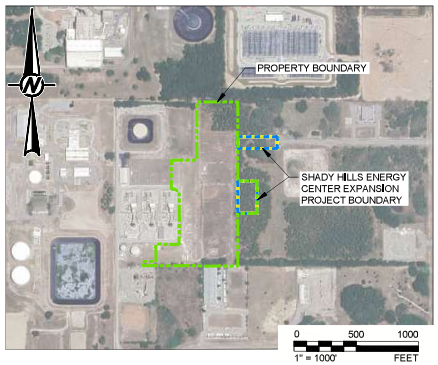
IN

PART OF SECTION 25, TOWNSHIP 24 SOUTH,
RANGE 17 EAST

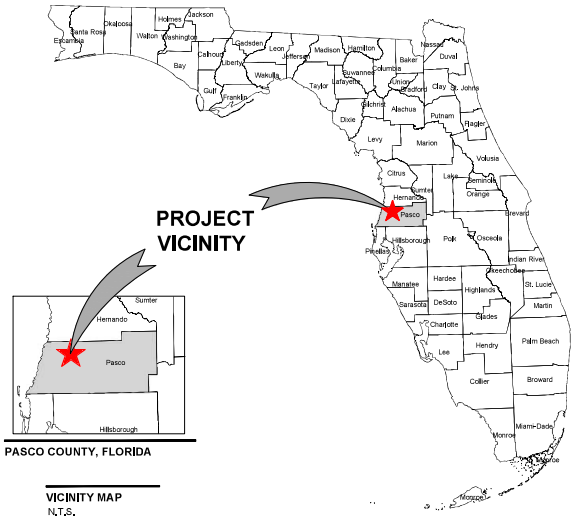
PASCO COUNTY, FLORIDA

PREPARED FOR

SHADY HILLS ENERGY CENTER, LLC.



LOCATION MAP
AERIAL IMAGE TAKEN FROM GOOGLE EARTH.



PASCO COUNTY, FLORIDA

VICINITY MAP
N.T.S.

INDEX TO SHEETS		
SHEET NUMBER	SHEET TITLE	REV.
1	COVER SHEET	0
2	GENERAL NOTES	0
3	SITE PLAN	1
4	PRE-DEVELOPMENT DRAINAGE PLAN	0
5	POST-DEVELOPMENT DRAINAGE PLAN	0
6	GRADING PLAN	0
7	EROSION CONTROL PLAN	1
8	EROSION CONTROL DETAILS	0
9	ACCESS PATHWAY DETAILS AND SECTIONS	0

ISSUED FOR PERMITTING

REV.	DATE	DESC	DESIGNED	PREPARED	REVIEWED	APPROVED
0	2024-05-02	ISSUED FOR PERMITTING	MC/EWT	RS	MC/BTH	GC
1	2024-11-05	ADDRESS RAI COMMENTS	MC/EWT	RS	MC/BTH	GC

CALL before you dig.
811 or 1-800-432-4770
or visit
www.callsunshine.com
811

DATUM:
ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
NAVD88 = NGVD29 - 0.850 FT.

PERMITTING CONSULTANT
WSP USA INC.
c/o GREG CORNING, PE
5411 SkyCenter Drive, Suite 650
Tampa, FL 33607
314-920-8359
Greg_Corning@WSP.com

SEAL
Digitally signed by Gregory W. Corning
Date: 2024.11.05 10:36:57 -05'00'

CLIENT
SHADY HILLS ENERGY CENTER, LLC.

CONSULTANT
wsp

YYYY-MM-DD	2024-05-02
DESIGNED	MC/EWT
PREPARED	RS
REVIEWED	MC/BTH
APPROVED	GC

PROJECT
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

TITLE
COVER SHEET

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	31405228.001-A001	0	1

Path: \\corp.pbwan.net\US\Centre\Data\USAX100\drafting\Projects\FPL\Seminole\RE_PROJECT\31405228.001_Seminole Water Tank and Shed Part\02_PRODUCTION\DWGS\ | File Name: 31405228.001-A001.dwg | Last Edited By: us6780803 Date: 2024-11-05 Time: 9:01:43 AM | Printed By: USBL7006803 Date: 2024-11-05 Time: 9:02:59 AM
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

GENERAL NOTES

MISCELLANEOUS

1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES, THE ENGINEERS, AND THE ARCHITECT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
2. ALL SPECIFICATIONS AND DOCUMENTS REFEREED TO IN THESE PLANS SHALL BE OF THE LATEST REVISION.
3. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF ALL THE UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.

SAFETY

1. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
2. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA.
3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH AND SAFETY PROGRAM REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES, SUB CONTRACTORS, AND SUB CONTRACTORS EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. THE CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OSHA OR OCCUPATIONAL REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS.
4. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTIONS STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
5. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
7. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED AS REQUIRED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.

SITE PLAN AND COORDINATE CONTROL

1. SITE PLAN PREPARED BY WSP USA INC. BASED ON CONCEPTUAL LAYOUT FURNISHED BY THE CLIENT.
2. BOUNDARY SURVEY PREPARED BY: SURVTECH SOLUTIONS, INC, DATED 02/07/2024.
3. ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY. ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT HIS OWN EXPENSE.
5. ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NAVD88 - NGVD29 - 0.850 FT.
6. THE CONTRACTORS SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
7. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A REGISTERED LAND SURVEYOR. THE "AS-BUILT" INFORMATION SHALL BE FURNISHED TO THE ENGINEER IN A LEGIBLE FORMAT MARKED ON FULL SIZE PRINTS OF THE APPROPRIATE PLAN SHEETS. THE ENGINEER MUST BE ABLE TO COMPILE THIS INFORMATION ONTO THE ORIGINAL PLAN DOCUMENTS FOR SUBMITTAL TO THE APPROPRIATE AGENCIES FOR FINAL APPROVALS.

PAVING AND GRADING

1. ALL DELETERIOUS SUBSURFACE MATERIAL, (I.E. MUCK, PEAT, BURIED DEBRIS), IS TO EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR THE OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY OWNER. EXCAVATED AREAS TO BE BACKFILLED WITH APPROPRIATE MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FORM THE SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACES.
3. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOIL REPOST.
4. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES UNLESS OTHERWISE NOTED ON PLANS. FINISHED GRADES OR CONTOURS IN SODDED AREAS REPRESENT FINISH GRADES AFTER PLACEMENT OF SOD.
5. THE CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
6. CONTRACTOR IS TO PROVIDE EROSION CONTROL AND SEDIMENT BARRIERS, TO PREVENT SILTATION OF ADJACENT PROPERTIES, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
7. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. THE CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER.

DRAINAGE

1. THE CONTRACTOR SHALL MAINTAIN AND PROTECT THE STORM DRAINAGE SYSTEM FROM MUD, DIRT, DEBRIS, ETC., UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSED.

EROSION/TURBIDITY CONTROL

1. EXCEPT AS NECESSARY FOR CONSTRUCTION, EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN A POSITION CLOSE ENOUGH THERETO TO BE WASHED AWAY BY HIGH WATER OR RUNOFF.
2. THE CONTRACTOR SHALL SCHEDULE OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICAL. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER, AND GRADING OPERATIONS SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT.
3. THE CONTRACTOR AND/OR THE OWNER'S REPRESENTATIVE SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.

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CLIENT
SHADY HILLS ENERGY CENTER, LLC.

CONSULTANT
wsp

YYYY-MM-DD	2024-05-02
DESIGNED	MC/EWT
PREPARED	RS
REVIEWED	MC/BTH
APPROVED	GC

PROJECT
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

TITLE
GENERAL NOTES

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	31405228.001-A002	0	2

Path: \\corp.pbwan.net\US\Central Data\USAX100\drafting\Projects\FPL\Seminole\Civil_PROJECTS\31405228.001_Seminole Water Tank and Shed Part\02_PRODUCTION\DWGS\ | File Name: 31405228.001-A002.dwg | Last Edited By: us6776803 Date: 2024-11-05 Time:9:01:08 AM | Printed By: USBL706803 Date: 2024-11-05 Time:9:03:23 AM
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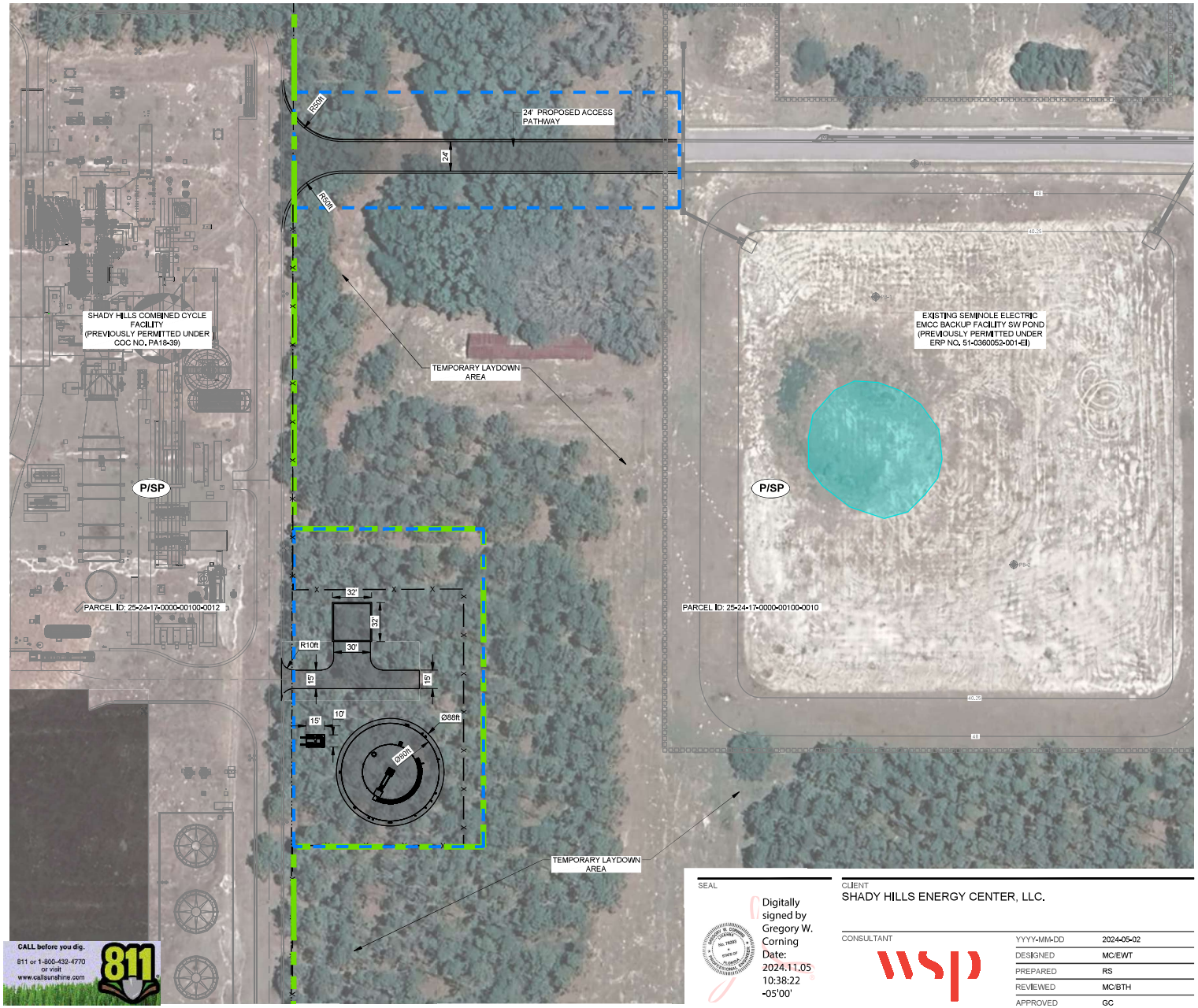

PROJECT COMPONENTS COVERAGE TABLE		
DESCRIPTION	**SQ. FT.**	**ACREAGE**
EXISTING IMPERVIOUS AREA (EMCC PROJECT)	110,206	2.53
PROPOSED ACCESS PATHWAYS	13,503	0.31
PROPOSED RECLAIMED WATER TANK PAD	6098.40	0.14
PROPOSED OIL STORAGE BUILDING AND PUMP PAD	1306.80	0.03
TOTAL IMPERVIOUS AREA	130,680	3.01
PROJECT BOUNDARY	70,567	1.62
PROPERTY BOUNDARY	648,608	14.89

SHADY HILLS ENERGY CENTER, LLC.
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

OWNER
SHADY HILLS ENERGY CENTER, LLC.

0 40 80
1" = 80' FEET

FUTURE LAND USE
P/SP PUBLIC/SEMIPUBLIC

THE PROJECT LIES WITHIN FLOOD ZONE X (AREA OF MINIMAL FLOOD HAZARD) AND FLOOD ZONE A (1% ANNUAL FLOOD CHANCE) AS IDENTIFIED ON FEMA PANEL No. 12101C0206F, EFFECTIVE DATE: 09/26/2014.

LEGEND
- PROJECT BOUNDARY
- PROPERTY BOUNDARY
- EXISTING FEATURES
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED ACCESS PATHWAYS/FOUNDATION PADS
- FLOODPLAIN - ZONE A

ISSUED FOR PERMITTING

NOTE(S)
1. AERIAL IMAGERY COURTESY OF GOOGLE EARTH DATED 06/30/2023.
2. BOUNDARY SURVEY DATA TAKEN FROM SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS, DATED 02/07/2024.

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CLIENT
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CONSULTANT
wsp

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DESIGNED	MC/EWT
PREPARED	RS
REVIEWED	MC/BTH
APPROVED	GC

PROJECT
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

TITLE
SITE PLAN

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	31405228.001-A003	1	3

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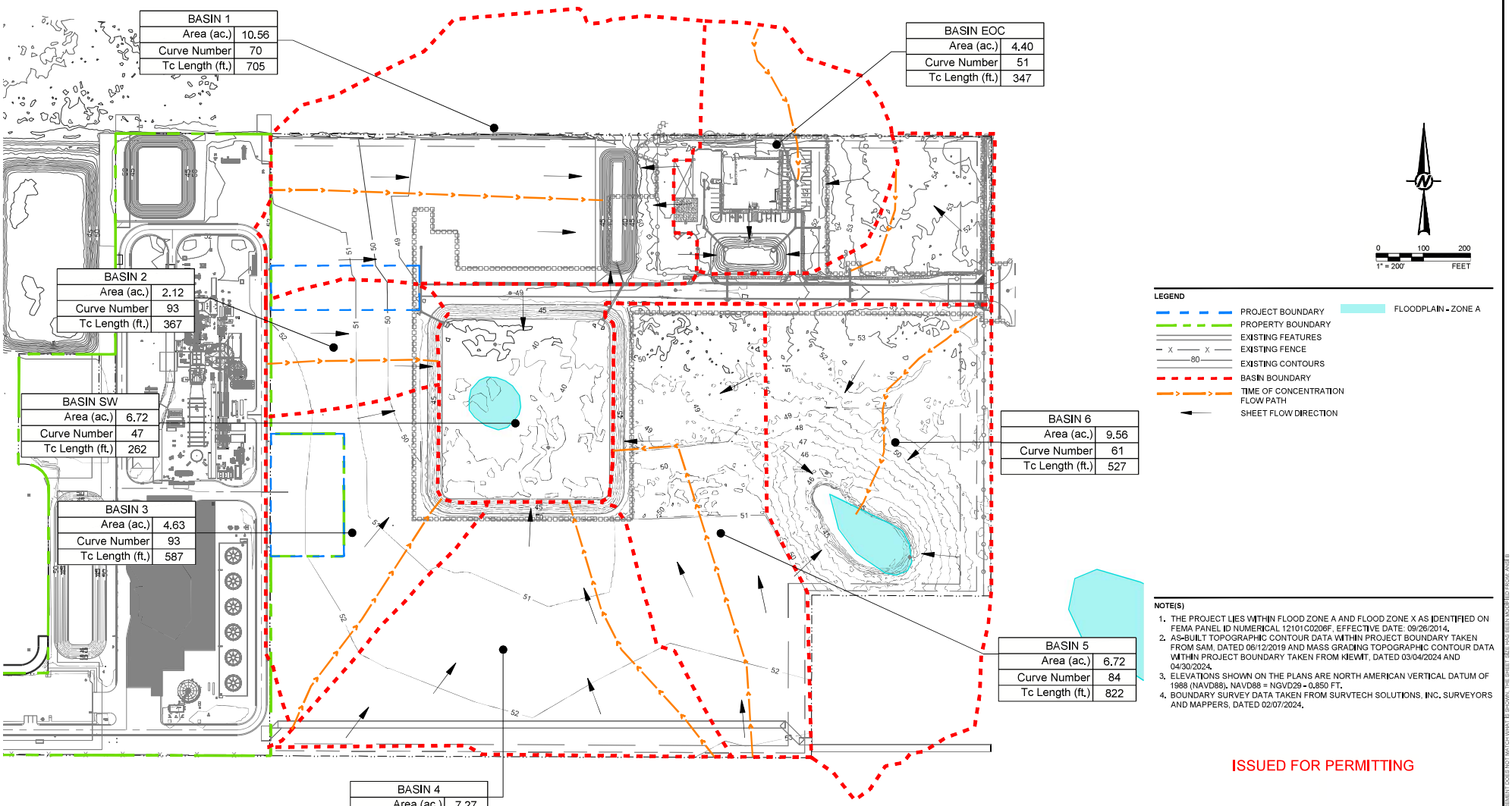

NOTE(S)

1. THE PROJECT LIES WITHIN FLOOD ZONE A AND FLOOD ZONE X AS IDENTIFIED ON FEMA PANEL ID NUMERICAL 12101C0206F, EFFECTIVE DATE: 09/26/2014.
2. AS-BUILT TOPOGRAPHIC CONTOUR DATA WITHIN PROJECT BOUNDARY TAKEN FROM SAM, DATED 06/12/2019 AND MASS GRADING TOPOGRAPHIC CONTOUR DATA WITHIN PROJECT BOUNDARY TAKEN FROM KIEWIT, DATED 03/04/2024 AND 04/30/2024.
3. ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NAVD88 = NGVD29 - 0.850 FT.
4. BOUNDARY SURVEY DATA TAKEN FROM SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS, DATED 02/07/2024.

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REVIEWED	MC/BTH
APPROVED	GC

PROJECT
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

TITLE
PRE-DEVELOPMENT DRAINAGE PLAN

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	31405228.001-A004	0	4

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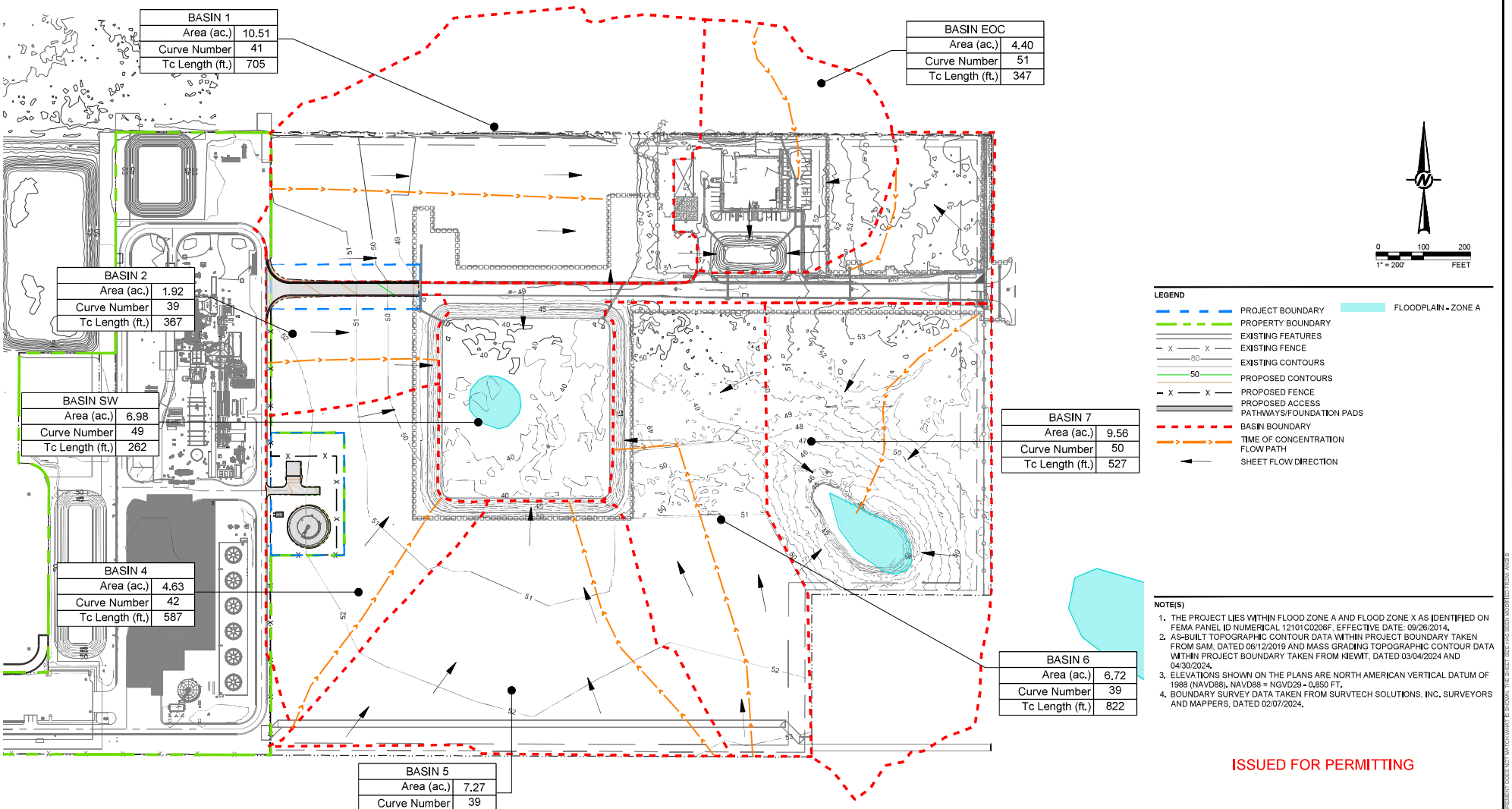

LEGEND

- PROJECT BOUNDARY
- PROPERTY BOUNDARY
- EXISTING FEATURES
- EXISTING FENCE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED FENCE
- PROPOSED ACCESS PATHWAYS/FOUNDATION PADS
- BASIN BOUNDARY
- TIME OF CONCENTRATION FLOW PATH
- SHEET FLOW DIRECTION
- FLOODPLAIN - ZONE A

NOTE(S)

1. THE PROJECT LIES WITHIN FLOOD ZONE A AND FLOOD ZONE X AS IDENTIFIED ON FEMA PANEL ID NUMERICAL 12101C0206F, EFFECTIVE DATE: 09/26/2014.
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4. BOUNDARY SURVEY DATA TAKEN FROM SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS, DATED 02/07/2024.

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CONSULTANT
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PREPARED	RS
REVIEWED	MC/BTH
APPROVED	GC

PROJECT
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

TITLE
POST-DEVELOPMENT DRAINAGE PLAN

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	31405228.001-A005	0	5

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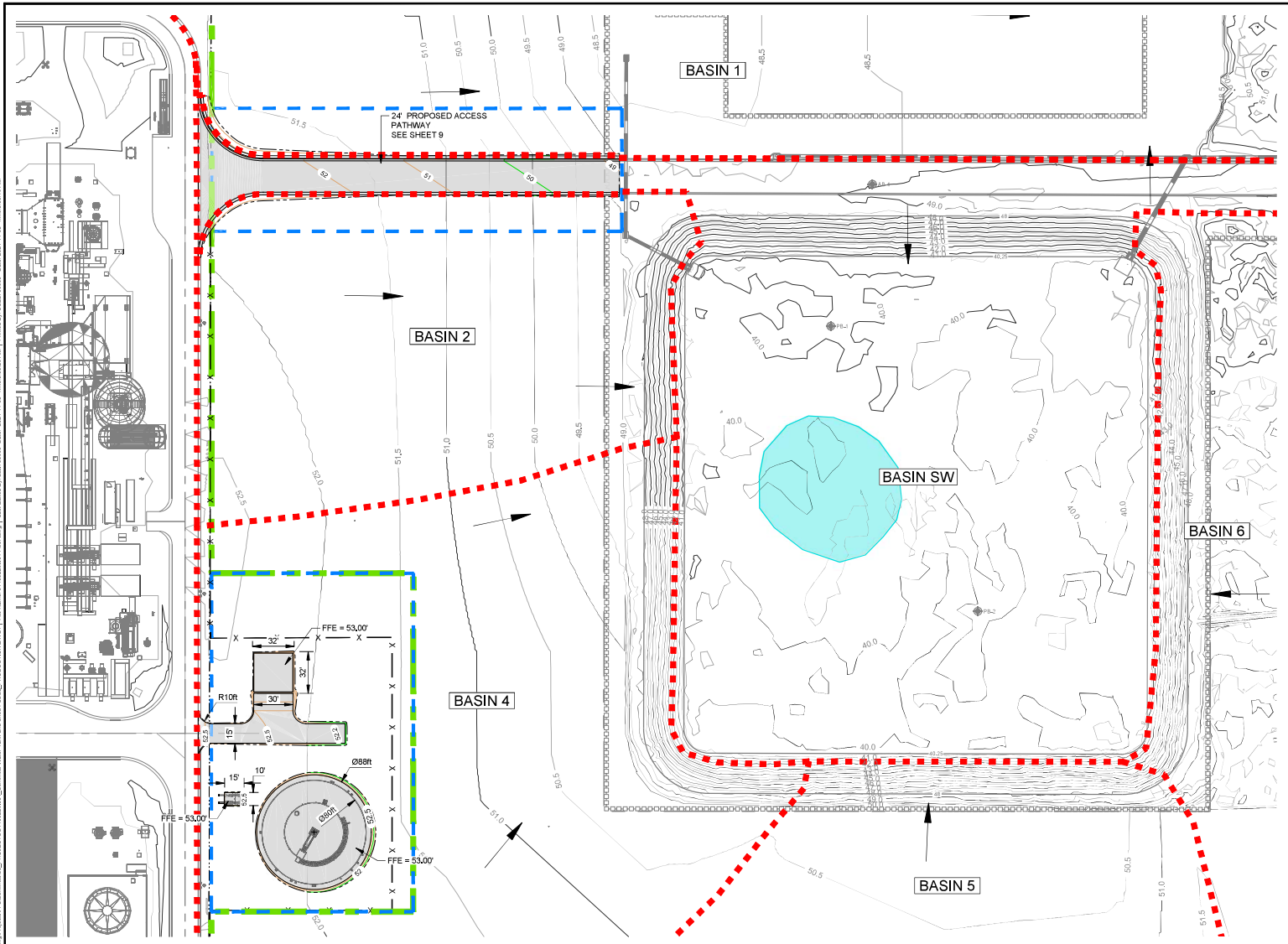

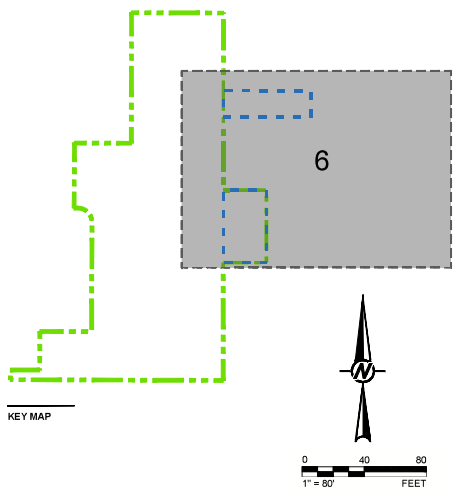

LEGEND

- PROJECT BOUNDARY
- PROPERTY BOUNDARY
- EXISTING FEATURES
- EXISTING FENCE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED FENCE
- PROPOSED ACCESS PATHWAYS/FOUNDATION PADS
- BASIN BOUNDARY
- TIME OF CONCENTRATION FLOW PATH
- SHEET FLOW DIRECTION
- FLOODPLAIN - ZONE A
- BASIN 2 BASIN IDENTIFICATION

NOTE(S)

1. THE PROJECT LIES WITHIN FLOOD ZONE A AND FLOOD ZONE X AS IDENTIFIED ON FEMA PANEL ID NUMERICAL 12101C0206F, EFFECTIVE DATE: 09/26/2014.
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CONSULTANT
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PREPARED	RS
REVIEWED	MC/BTH
APPROVED	GC

ISSUED FOR PERMITTING

PROJECT
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

TITLE
GRADING PLAN

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	31405228.001-A007	0	6

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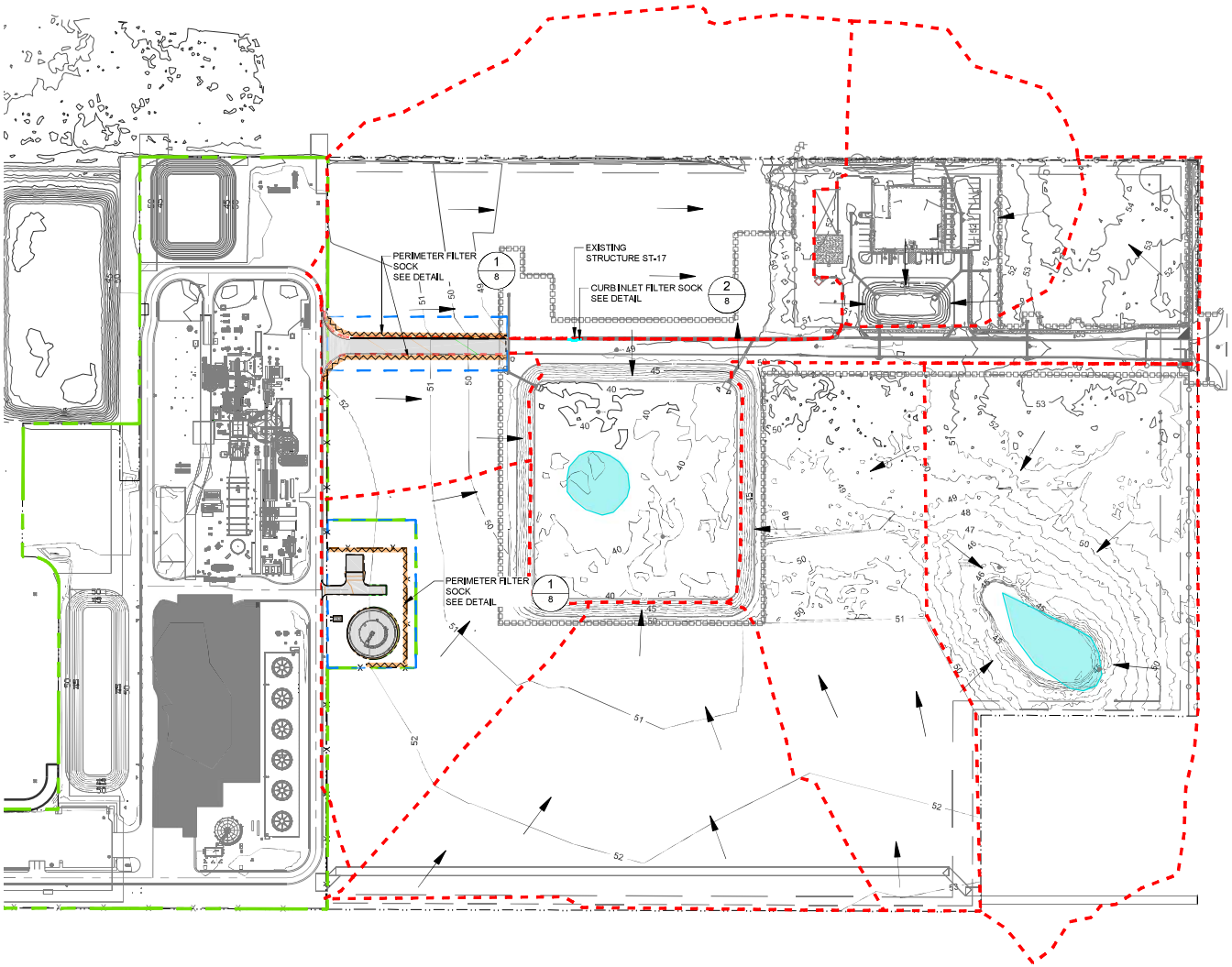

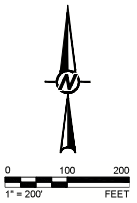

LEGEND

- PROJECT BOUNDARY
- PROPERTY BOUNDARY
- EXISTING FEATURES
- EXISTING FENCE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED FENCE
- PROPOSED ACCESS PATHWAYS/FOUNDATION PADS
- BASIN BOUNDARY
- TIME OF CONCENTRATION FLOW PATH
- SHEET FLOW DIRECTION
- PERIMETER FILTER SOCK
- CURB INLET FILTER SOCK
- FLOODPLAIN - ZONE A

NOTE(S)

1. THE PROJECT LIES WITHIN FLOOD ZONE A AND FLOOD ZONE X AS IDENTIFIED ON FEMA PANEL ID NUMERICAL 12101C0206F, EFFECTIVE DATE: 09/26/2014.
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CONSULTANT
wsp

YYYY-MM-DD	2024-05-02
DESIGNED	MC/EWT
PREPARED	RS
REVIEWED	MC/BTH
APPROVED	GC

PROJECT
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

TITLE
EROSION CONTROL PLAN

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	31405228.001-A008	1	7

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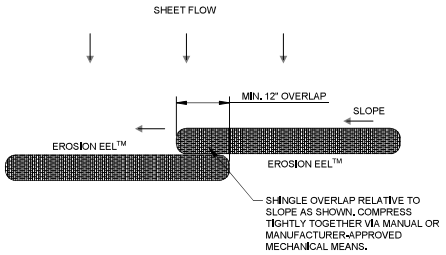
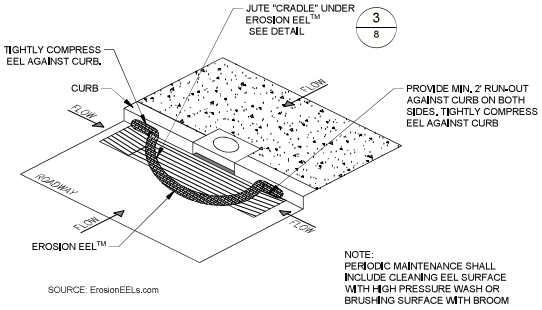


SCALE NTS 1/8 PERIMETER FILTER SOCK DETAIL



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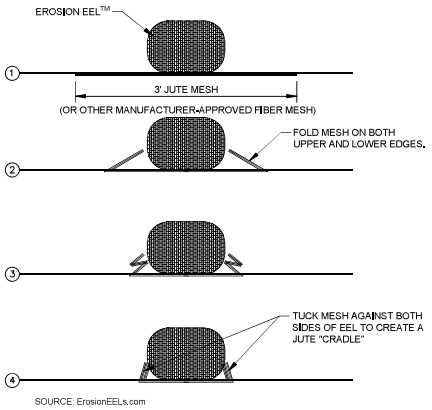

SCALE NTS 3/8 FIBER MESH CRADLE DETAIL

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CONSULTANT
wsp

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DESIGNED	MC/EWT
PREPARED	RS
REVIEWED	MC/BTH
APPROVED	GC

PROJECT
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

TITLE
EROSION CONTROL DETAILS

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	31405228.001-A009	0	8

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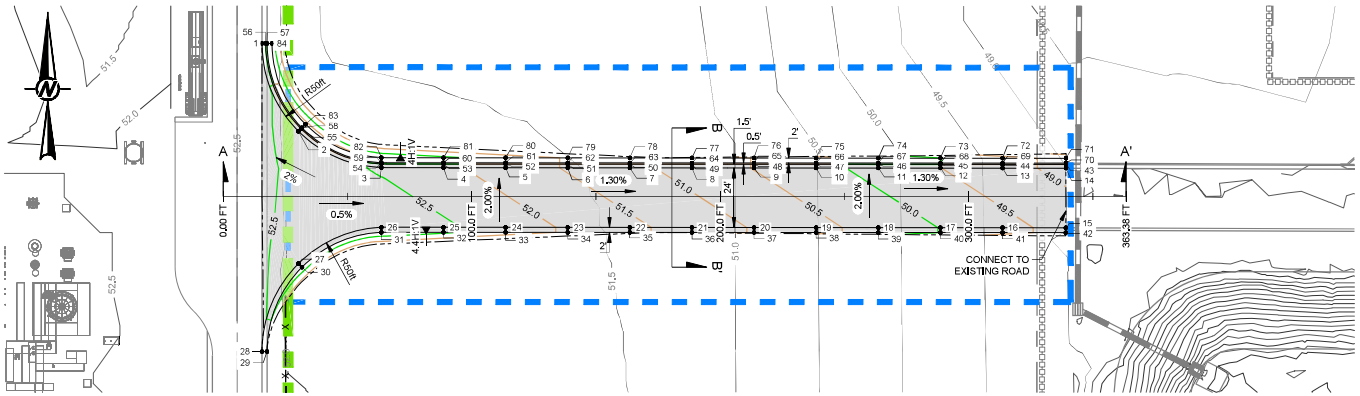

PROPOSED ACCESS PATHWAY

0 25 50
1" = 50' FEET

CONTROL POINTS

POINT	NORTHING	EASTING	ELEV.
1	1466732.91	477258.17	52.30
2	1466697.57	477272.80	52.74
3	1466682.95	477306.19	52.43
4	1466682.89	477331.19	52.11
5	1466682.87	477356.19	51.78
6	1466682.87	477381.19	51.46
7	1466682.84	477406.19	51.13
8	1466682.84	477431.19	50.81
9	1466682.81	477456.19	50.48
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13	1466682.74	477556.19	49.18
14	1466682.72	477581.73	48.85
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16	1466658.74	477556.19	49.66
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38	1466656.83	477481.19	50.64
39	1466656.78	477506.19	50.31
40	1466656.78	477531.19	49.99
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43	1466684.22	477581.73	48.85
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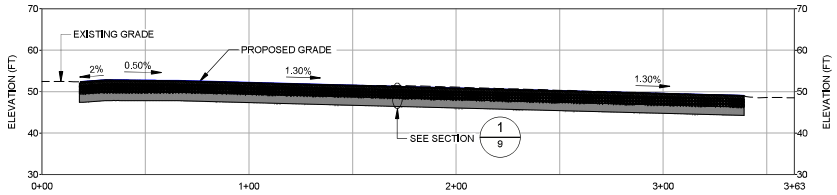
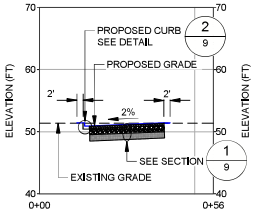


SCALE Custom VERT. SCALE 1" = 30' (A/9) CROSS SECTION A-A'



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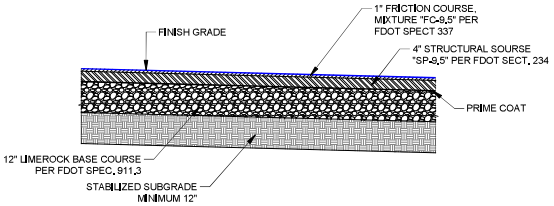
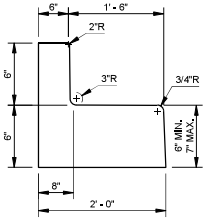


SCALE NTS (1/9) STANDARD ASPHALT PAVEMENT SECTION



SCALE NTS (2/9) TYPE F CURB - LOW SIDE CURB

ISSUED FOR PERMITTING

0 10 20
1" = 20' FEET
0 15 30
1" = 30' FEET
0 20 40
1" = 40' FEET
0 30 60
1" = 60' FEET

SEAL
Digitally signed by Gregory W. Corning
Date: 2024.11.05 10:40:29 -05'00'

CLIENT
SHADY HILLS ENERGY CENTER, LLC.

CONSULTANT
wsp

YYYY-MM-DD	2024-05-02
DESIGNED	MC/EWT
PREPARED	RS
REVIEWED	MC/BTH
APPROVED	GC

PROJECT
SHADY HILLS ENERGY CENTER EXPANSION
PASCO COUNTY, FLORIDA

TITLE
ACCESS PATHWAY DETAILS AND SECTIONS

PROJECT NO.	CONTROL	REV.	SHEET
31405228.001	31405228.001-A00	0	9

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Path: \\corp.pbwan.net\US\Centre\Data\USAX100\drafting\Projects\FPL\Seminole\PW_PROJECT\S31405228.001_Seminole Water Tank and Shed Part\02_PRODUCTION\DWGS\ | File Name: 31405228.001-A010.dwg | Last Edited By: us6f780803 Date: 2024-11-05 Time:8:59:57 AM | Printed By: USBL700603 Date: 2024-11-05 Time:8:44:51 AM

Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway, Suite 101
Temple Terrace, FL 33637-0926

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

March 1, 2018

Seminole Electric Cooperative, Inc.
c/o Michael Ward
16313 North Dale Mabry Highway
Tampa, FL, 33618-1427
mward2@seminole-electric.com

Dear Mr. Ward:

Enclosed is the Environmental Resource Permit, DEP Project No. 51-0360052-001-EI, issued pursuant to Part IV of Chapter 373, Florida Statutes, and Title 62, Florida Administrative Code.

Appeal rights for you and for any affected third party are described in the text of the permit along with conditions that must be met when authorized activities are undertaken.

You, as the applicant, are responsible for all aspects of permit compliance. You should therefore review this permit document carefully to ensure compliance with the general conditions and specific conditions contained herein.

Please be aware of permit General Condition number 4, which states, "At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice"."

If you have any questions about this document, please contact me at veronica.l.robinson@dep.state.fl.us or (813) 470-5748.

Thank you for your participation in the permit process and in managing the natural resources of the State of Florida.

Sincerely,

Veronica Robinson, P.E., CFM, PMP
Professional Engineer I
Permitting and Waste Cleanup Program

cc: Christopher Weddle, P.E., Aurora Civil Engineering, Inc., chris@auroracivil.com
Michael Knight, P.E., Aurora Civil Engineering, Inc., michael@auroracivil.com

Enclosure: Environmental Resource Permit with Attachments (43 pages)

Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway, Suite 101
Temple Terrace, FL 33637-0926

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

Permittee/Authorized Entity:
Seminole Electric Cooperative, Inc.
c/o Michael Ward
16313 North Dale Mabry Highway
Tampa, FL, 33618-1427

Seminole Electric – EMCC Backup Facility

Authorized Agent:
Aurora Civil Engineering, Inc.
c/o Christopher Weddle
610 E Morgan Street
Brandon, FL, 33510-4607

Individual Environmental Resource Permit

State-owned Submerged Lands Authorization – Not Applicable

U.S. Army Corps of Engineers Authorization – Not Approved

Permit No.: 51-0360052-001-EI

Permit Issuance Date: March 1, 2018
Permit Construction Phase Expiration Date: March 1, 2023

Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway, Suite 101
Temple Terrace, FL 33637-0926

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

Environmental Resource Permit

Permittee: Seminole Electric Cooperative, Inc.
Permit No: 51-0360052-001-EI

PROJECT LOCATION
The activities authorized by this permit are located at 14425 Softwind Lane, Spring Hill, Florida, 34610-8046, in Section 25, Township 24, Range 17 in Pasco County, at latitude 28° 22' 4.7"/ longitude -82° 33' 39.7".

PROJECT DESCRIPTION
The permittee is authorized to construct an EMCC backup facility and entry road from Softwind Lane within a currently vacant, 43.4-acre site. The proposed facility consists of an Emergency Operations Center (EOC) office and 0.26-acre stormwater pond (EOC pond), an undeveloped area designated for a future electrical substation, and an adjacent, 4.21-acre stormwater pond (SW pond). Three future development areas within the site are proposed for inclusion in subsequent permit modifications.

Site development related to the proposed facility includes an approximate 10-acre project footprint with 2.26 acres of impervious area for the EOC office, pole barn, potable water meter, asphalt roadway, parking area, and concrete sidewalks. The proposed roadway and parking areas will be graded towards various storm inlets for conveyance. Throughout the site, overland and shallow concentrated flow will transport runoff to structures and underground pipes which ultimately discharge to the EOC and SW ponds.

The proposed site is in a closed basin in the Pithlachascotee River/Bear Creek Watershed; therefore, both stormwater ponds were designed to provide discharge rate attenuation and water quality treatment for the 100-year, 24-hour design storm event. The ponds are designed to treat runoff from the first one-half inch of rainfall, with the total treatment volume available again within 72 hours. Previous studies identified a small, 0.40-acre wetland within the project area that will be incorporated into the proposed SW pond. Future site development outside the project limits will incorporate another small wetland into a 3.05-acre stormwater pond.

Other than minor isolated wetland impacts associated with stormwater pond construction, a majority of site development will occur outside of the 100-year floodplain. No net loss or other adverse impacts to the floodplain are proposed or authorized. Authorized activities are depicted on the attached exhibits.

AUTHORIZATIONS

Seminole Electric – EMCC Backup Facility

Environmental Resource Permit

The Department has determined that the activity qualifies for an Environmental Resource Permit. Therefore, the Environmental Resource Permit is hereby granted, pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Chapter 62-330, Florida Administrative Code (F.A.C.).

Federal Authorization

This permit does not include federal authorization or imply the presence or limits of Waters of the United States (WOTUS) on the subject property. Activities that may impact WOTUS shall require a separate permit from the Corps. It is recommended that you contact your local Corps office to determine whether your project site contains WOTUS and/or if a Department of the Army permit is needed. A map of local Corps offices and the federal application form (ENG 4345) are available online at the Jacksonville District Regulatory Division website.

Authority for review - an agreement with the USACOE entitled "Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection, or Duly Authorized Designee, State Programmatic General Permit", Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Coastal Zone Management

Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

Water Quality Certification

This permit also constitutes a water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. 1341

Other Authorizations

You are advised that authorizations or permits for this activity may be required by other federal, state, regional, or local entities including but not limited to local governments or municipalities. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

The activity described may be conducted only in accordance with the terms, conditions and attachments contained in this document. Issuance and granting of the permit and authorizations herein do not infer, nor guarantee, nor imply that future permits, authorizations, or modifications will be granted by the Department.

PERMIT CONDITIONS

The activities described must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to beginning the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings herein. If you are using a contractor, the contractor also should read and understand these conditions and drawings prior to beginning any activity. Failure to comply with these conditions, including any mitigation requirements, shall be grounds for the Department to revoke the permit and authorization and to take appropriate enforcement action. Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit, as described.

SPECIFIC CONDITIONS

1. Submittals required herein (e.g., progress reports, as-built drawings, etc.) shall include the permittee's name and permit number 51-0360052-001-EI and shall be directed by e-mail to SW_ERP@dep.state.fl.us with a subject line of "Compliance: permit number 51-0360052-001-EI", or by mail to:

   Department of Environmental Protection
   Southwest District
   ATTN: ERP Compliance Assurance
   13051 North Telecom Parkway, Suite 101
   Temple Terrace, FL 33637-0926

2. The structure/work authorized by this permit shall not be placed/conducted on any property, other than that owned by the permittee, without the prior written approval of that property owner.

3. In the event the permittee files for bankruptcy prior to completion of work permitted and required by this permit, the permittee must notify the Department within 30 days of filing. The notification shall identify the bankruptcy court and case number and shall include a copy of the bankruptcy petition.

SPECIFIC CONDITIONS - PRIOR TO ANY CONSTRUCTION

4. To mitigate potential impacts to state archaeological and historical properties, the permittee shall follow pre-construction recommendations provided in the attached document from the Florida Department of State Division of Historical Resources.

5. To mitigate potential impacts to state-listed species habitats, the permittee shall follow pre-construction recommendations provided in the attached document from the Florida Fish and Wildlife Conservation Commission (FWC).

6. Best management practices for erosion control shall be implemented prior to construction commencement and shall always be maintained during construction to prevent siltation and turbid discharges exceeding State water quality standards (>29 NTU's above background), pursuant to Rule 62-302, F.A.C. Methods may include, but are not limited to, the use of staked hay bales, staked filter cloth, sodding, seeding, staged construction and the installation of turbidity screens around the immediate project site. Erosion control methods shall be implemented as detailed and depicted in Sheet(s) C-2, C-10 and C-17 of the attached permit drawings.

SPECIFIC CONDITIONS – CONSTRUCTION ACTIVITIES

7. Wetland areas or waterbodies that are outside the specific limits of construction authorized by this permit, must be protected from erosion, sedimentation, siltation, scouring, excess turbidity, and/or dewatering. There shall be no discharge in violation of the water quality standards in Chapter 62-302, F.A.C. Turbidity/erosion controls shall be installed prior to clearing, excavation or placement of fill material, shall be maintained until construction is completed, disturbed areas are stabilized, and turbidity levels have fallen to less than 29 NTU's above background. The turbidity and erosion control devices shall be removed within 14 days once these conditions are met.

8. Areas of exposed soils shall be isolated from wetlands or other surface waters to prevent erosion and deposition of these soils into wetlands or other surface waters during construction and operation of permitted activities.

9. Grass seed, or sod shall be installed and maintained on exposed slopes and disturbed soil areas within 48 hours of completing final grade, and at other times as necessary, to prevent erosion, sedimentation or turbid discharges into waters of the state and/or adjacent wetlands. A vegetative cover that stabilizes and prevents erosion of the fill material shall be established within 60 days of sodding or seeding. Turbidity barriers/erosion control devices shall be removed upon establishment of a substantial vegetative cover.

10. The permittee shall be responsible for ensuring erosion control devices/procedures are inspected and maintained daily during all phases of construction authorized by this permit until areas disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.

11. Staked filter cloth shall be positioned at the edge of the permitted fill slopes adjacent to wetlands to prevent turbid run-off and erosion.

12. A floating turbidity apron/curtain shall be installed around the waterward boundary of the construction area prior to construction and shall remain in place until construction is complete and turbidity levels within the work area have returned to background levels.

13. Floating turbidity curtains with weighted skirts shall be placed per the Erosion & Sediment Control Notes (Sheet C-2) prior to the initiation of work authorized by this permit. The screens shall be maintained and remain in place for the duration of the construction to ensure turbidity levels outside the construction area do not violate state water quality standards (>29 NTU's over background). The permittee shall be responsible for inspecting and maintaining turbidity control devices so turbidity does not exceed state water quality standards outside of the turbidity screens.

14. The following measures shall be taken immediately by the permittee when turbidity levels within waters of the State surrounding the project site violate state water quality standards:

    a. Immediately cease work contributing to the water quality violation.

b. Stabilize exposed soils contributing to the violation. Modify the work procedures responsible for the violation, install additional turbidity containment devices and repair non-functioning turbidity containment devices.

c. Notify the Department within 24 hours of the time the violation is first detected.

15. Excavation of the retention/detention pond(s) is limited to the permitted design specifications as depicted on Sheets C-1 to C-14 of the attached permit drawings. If limestone bedrock is encountered during construction, the permittee shall notify the Department immediately and shall cease construction in the affected area. The permittee shall submit a design revision to the Department for review and approval that will demonstrate compliance with Rule 5.4.1.b. of the Applicant's Handbook, Volume II prior to proceeding with construction. The authorized surface water management system shall be completed prior to or simultaneously with associated upland development.

16. This permit does not authorize the installation of water, sewer, cable or utility lines within wetlands or waterbodies.

17. The wetland buffer boundaries, as shown on Sheet C-1 of the approved construction drawings, shall be clearly flagged or otherwise delineated on site prior to initial clearing or grading activities. The delineation shall endure throughout the construction period and be readily discernible to construction and Department personnel.

18. Unauthorized impacts to wetlands as a result of the authorized construction shall be reported to the Department within 24 hours.

19. Storage or stockpiling of tools and materials (i.e., lumber, pilings, debris) within wetlands or other surface waters is prohibited.

SPECIFIC CONDITIONS- CONSTRUCTION COMPLETION

20. The permittee shall submit one set of signed, dated and sealed as-built drawings to the Department via email at SW_ERP@dep.state.fl.us for review and approval within 30 days of completion of construction. (Please contact the Department for files that are too large to email for alternative means of submitting electronically.) The as-built drawings shall be based on the Department permitted construction drawings and any pertinent specific conditions, which should be revised to reflect changes made during construction. Both the original design and constructed elevations must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. Surveyed dimensions and elevations required shall be verified and signed, dated and sealed by a Florida registered professional. *As-builts shall be submitted to the Department regardless of whether deviations are present or not. In addition, the permittee shall submit the "As-Built Certification and Request for Conversion to Operation Phase" form (Ch. 62-330.310(1), F.A.C.); as required in General Condition #6.*

The following information shall be verified on the as-built drawings from the engineering drawings signed and sealed by Christopher E. Weddle, P.E., #35446, on February 27, 2018:

Plan View/Cross Section Name	Drawing Number(s)
Grading Plan	C-5 – C-7
Utility and Drainage Plan	C-8, C-9
Roadway-Drainage Cross Sections	C-13

SPECIFIC CONDITIONS – OPERATION AND MAINTENANCE ACTIVITIES

21. The retention ponds are intended to become dry within 72 hours after a rainfall event. A system that is regularly wet shall not be considered in compliance with this permit and possible modifications to the system may be required.

22. The SWMS conveyance pipes shall be maintained free of blockage and the pond must be kept free of obstructions or blockage by sediment. Any scouring or erosion at these locations must be repaired.

23. All ditches and swales from the point at which they receive runoff from the project area and through their entire downstream length shall be well maintained and stabilized to ensure that they are not subject to erosion.

24. The permitted SWMS shall only be used for controlling surface water runoff from the site and shall not be used to dispose of or store any solid/liquid waste or products generated or used during operation or construction of the facility.

25. The permittee shall notify the Department of any sinkhole development in the SWMS within 24 hours after discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the Department within 30 days of discovery.

26. The operation and maintenance entity shall provide for the inspection of the permitted project after conversion of the permit to the operation and maintenance phase. For systems utilizing retention or wet detention, the inspections shall be performed five (5) years after operation is authorized and every five (5) years thereafter.

    The operation and maintenance entity must maintain a record of each inspection, including the date of inspection, the name and contact information of the inspector, whether the system was functioning as designed and permitted, and make such record available upon request of the District.

    Within 30 days of any failure of a stormwater management system or deviation from the permit, an inspection report shall be submitted using Form 62-330.311(1), "Operation and Maintenance Inspection Certification" describing the remedial actions taken to resolve the failure or deviation.

GENERAL CONDITIONS FOR INDIVIDUAL PERMITS

The following general conditions are binding on all individual permits issued under chapter 62-330, F.A.C., except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate project-specific conditions.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007)*, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," [October 1, 2013], which is incorporated by reference in paragraph 62-330.350(1)(d), F.A.C., indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.

5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex – "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
b. For all other activities – "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

7. If the final operation and maintenance entity is a third party:

a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any

easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

b. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:

a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
b. Convey to the permittee or create in the permittee any interest in real property;
c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

12. The permittee shall notify the Agency in writing:

a. Immediately if any previously submitted information is discovered to be inaccurate; and
b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of

State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately, and notification shall be provided in accordance with Section 872.05, F.S.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing
A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rule 28-106.201, F.A.C., a petition for an administrative hearing must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, any email address, any facsimile number, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of publication of the notice or 21 days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this action is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Pamala Vazquez
Program Administrator
Permitting and Waste Cleanup Program
Southwest District

Attachments:
Project Drawings and Design Specs. (18 pages)
Florida Fish and Wildlife Conservation Commission Review Comments (3 pages)
Florida State Historic Preservation Office Review Comments (1 page)
Construction Commencement Notice/Form 62-330.350(1) (1 page)
Operation and Maintenance Inspection Certification 62-330.311(1) (2 pages)
As-built Certification and Request for Conversion to Operational Phase/ Form 62-330.310(1) (2 pages)
Request for Transfer to the Perpetual Operation Entity/Form 62-330.310(2) (1 page)
Request to Transfer Permit/Form 62-330.340(1) (2 pages)

Copies furnished to:
Christopher Weddle, P.E., Aurora Civil Engineering, Inc., chris@auroracivil.com
Michael Knight, P.E., Aurora Civil Engineering, Inc., michael@auroracivil.com

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this permit, including all copies, were mailed before the close of business on March 1, 2018, to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, under 120.52(7) of the
Florida Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged.

Clerk March 1, 2018
Date

PSP / CONSTRUCTION PLANS FOR

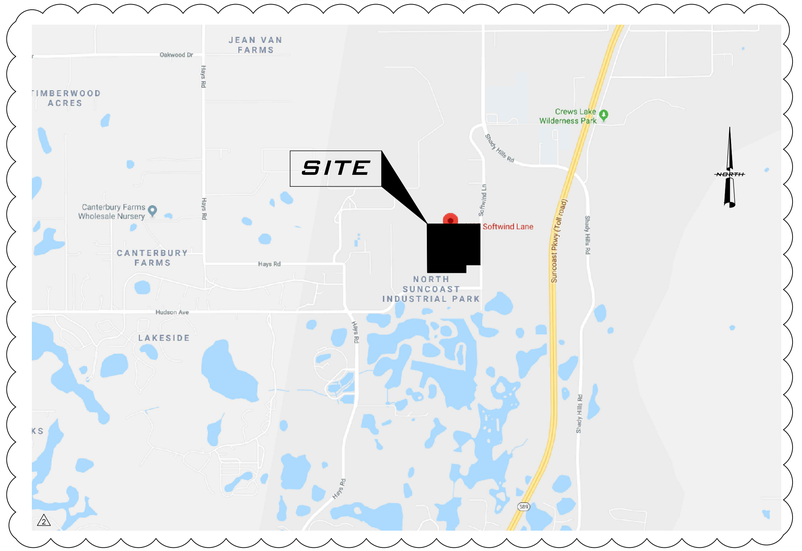
SEMINOLE ELECTRIC COOPERATIVE INC.
EMCC BACK-UP FACILITY

14425 SOFTWIND LANE, SPRING HILL
PASCO COUNTY, FLORIDA 34610

INDEX OF DRAWINGS

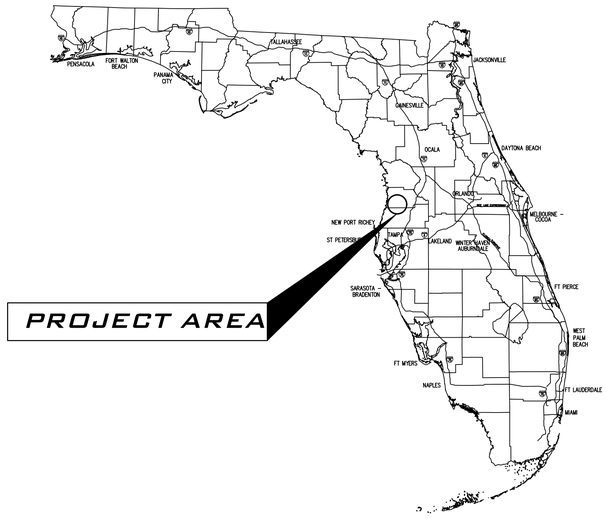
DRAWING TITLE	SHEET NO.	LATEST DATE
COVER SHEET		
GENERAL SITE PLAN	C-1	2/27/2018
CONSTRUCTION NOTES AND TESTING SCHEDULE	C-2	2/27/2018
HORIZONTAL CONTROL PLAN	C-3, C-4	2/27/2018
GRADING PLAN	C-5, C-6, C-7	2/27/2018
UTILITY PLAN	C-8, C-9	2/27/2018
MISCELLANEOUS DETAILS	C-10	2/27/2018
PASCO COUNTY DETAILS	C-11, C-12	2/9/2018
ROADWAY & DRAINAGE CROSS SECTIONS	C-13	2/27/2018
MASTER DRAINAGE PLAN	C-14	1/29/18
PUMP STATION PLAN & DETAILS	C-15	12/21/17
SIGN/MARKING PLAN	C-16	2/27/2018
STORMWATER POLLUTION PREVENTION PLAN	C-17	2/27/2018

VICINITY MAP



SECTION 25 TOWNSHIP 24S RANGE 17E

LOCATION MAP



FIRM PANEL No. 12101C-0206
FLOOD ZONE: X, A BASE FLOOD EL: N/A

Parcel ID: 25-24-17-0000-00100-0010

Address: 14425 Softwind Lane
Spring Hill, FL 34610

Pasco County ID#: PSP 18-026

Pasco County Utilities: PCU# 18-103.24

FDEP ERP: APP: 51-0360052-001 / PERMIT: xxxxxxxx.xxx

LEGAL DESCRIPTION (PROVIDED BY CLIENT):
THE SOUTH 1/2 OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 24 SOUTH, RANGE 17 EAST, PASCO COUNTY, FLORIDA; AND THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4; AND THE NORTH 1/2 OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 24 SOUTH. RANGE 17 EAST, PASCO COUNTY FLORIDA;

LESS AND EXCEPT: THE EASTERLY 120 FEET (MORE OR LESS) AS CONVEYED AND MORE PARTICULARLY DESCRIBED IN FEE SIMPLE DEED RECORDED IN OFFICIAL RECORDS BOOK 51, PAGE 448; QUIT CLAIM DEEDS RECORDED IN OFFICIAL RECORDS BOOK 3696, PAGES 981 AND 982; WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 3704, PAGE 288; RESOLUTION NO. 97-233 RECORDED IN OFFICIAL RECORDS BOOK 3742, PAGE 1765; COUNTY DEED RECORDED IN OFFICIAL RECORDS BOOK 4249, PAGE 1547; TRANSFER AGREEMENT RECORDED IN OFFICIAL RECORDS BOOK 8698, PAGE 3509; AND QUIT CLAIM DEED RECORDED IN OFFICIAL RECORDS BOOK 9051, PAGE 2807, ALL IN THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA; ALSO

LESS AND EXCEPT:
A PORTION OF THE NORTH 1/2 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 24 SOUTH, RANGE 17 EAST, PASCO COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE NORTHEAST CORNER OF LOT 2, NORTH INDUSTRIAL PARK AS SHOWN ON THE PLAT RECORDED IN PLAT BOOK 58, PAGES 1 THROUGH 4, PUBLIC RECORDS OF PASCO COUNTY, FLORIDA, FOR A POINT OF BEGINNING; THENCE ALONG THE NORTH BOUNDARY LINE OF SAID NORTH SUNCOAST INDUSTRIAL PARK, THE SAME BEING THE SOUTH BOUNDARY LINE OF THE NORTH 1/2 OF THE SOUTHEAST 1/4 OF SAID SECTION 25, NORTH 89°47'22"WEST, A DISTANCE OF 380.00 FEET; THENCE PARALLEL TO THE WEST RIGHT-OF-WAY LINE OF SOFTWIND LANE AS SHOWN ON THE RIGHT-OF-WAY MAP FOR STATE ROAD 589, FLORIDA DEPARTMENT OF TRANSPORTATION SECTION NO. 97140-2303, DATED JULY 22, 1996, NORTH 00°04'31" EAST, A DISTANCE OF 345.00 FEET; THENCE PARALLEL TO SAID SOUTH BOUNDARY LINE, SOUTH 89° 47' 22" EAST, A DISTANCE OF 380.00 FEET TO SAID WEST RIGHT-OF-WAY LINE OF SOFTWIND LANE; THENCE ALONG SAID RIGHT-OF-WAY LINE, SOUTH 00°04'31" WEST, A DISTANCE OF 345.00 FEET TO THE POINT OF BEGINNING; ALSO

LESS AND EXCEPT:
THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4; AND THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4; AND THE WEST 1/2 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4; AND THE WEST 1/2 OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4, ALL LYING AND BEING IN SECTION 25, TOWNSHIP 24 SOUTH, RANGE 17 EAST, PASCO COUNTY, FLORIDA.

DEVELOPER: SEMINOLE ELECTRIC COOPERATIVE, INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618
PH: (813) 739-1237
MWARD2@SEMINOLE-ELECTRIC.COM

ENGINEER: AURORA CIVIL ENGINEERING, INC.
610 E. MORGAN STREET
BRANDON, FL 33510
PH: (813) 643-9907
CHRIS@AURORACIVIL.COM

OWNER: SEMINOLE ELECTRIC COOPERATIVE, INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618
PH: (813) 739-1237
MWARD2@SEMINOLE-ELECTRIC.COM

SURVEYOR: ROBERTSON & ASSOCIATES SURVEYING, INC
123 FLAGSHIP DRIVE
LUTZ, FL 33549
PH: (813) 388-2484
CFOGELSONGER@TAMPABAY.RR.COM

Feb 27, 2018
~~Feb 09, 2018~~
~~Jan 29, 2018~~
~~Dec 21, 2017~~

PREPARED BY

AURORA
CIVIL ENGINEERING, INC
610 E. Morgan Street Brandon, FL 33510 (813)643-9907

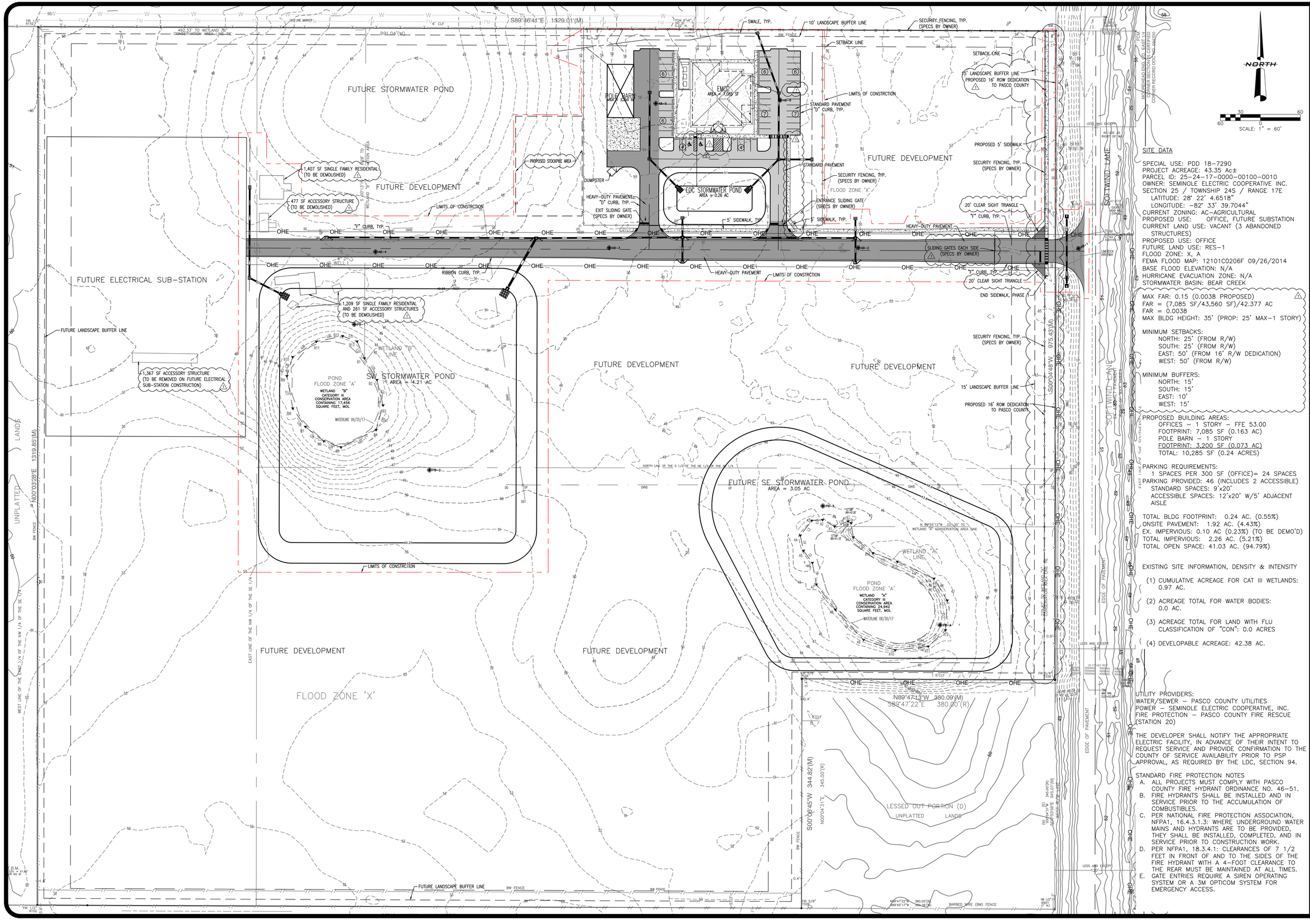
PREPARED FOR

SEMINOLE ELECTRIC COOPERATIVE, INC.
16313 N. DALE MABRY HWY.
TAMPA, FLORIDA 33618

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY

AURORA
CIVIL ENGINEERING, INC
610 E. Morgan Street Brandon, FL 33510 (813)643-9907

PROJECT 17-172


S89°46'41"E 1529.01'(M)
991.04'(M)
492.33' TO WETLAND 'B' CONSERVATION AREA LINE
FUTURE STORMWATER POND
POLE BARN
EMCC
AREA = 7,085 SF
SWALE, TYP.
10' LANDSCAPE BUFFER LINE
SECURITY FENCING, TYP. (SPECS BY OWNER)
SETBACK LINE
LIMITS OF CONSTRCTION
STANDARD PAVEMENT
"D" CURB, TYP.
FUTURE DEVELOPMENT
PROPOSED STOCKPILE AREA
1,407 SF SINGLE FAMILY RESIDENTIAL (TO BE DEMOLISHED)
477 SF ACCESSORY STRUCTURE (TO BE DEMOLISHED)
DUMPSTER
HEAVY-DUTY PAVEMENT, "D" CURB, TYP.
EXIT SLIDING GATE (SPECS BY OWNER)
EOC STORMWATER POND
AREA = 0.26 AC
FLOOD ZONE 'X'
ENTRANCE SLIDING GATE (SPECS BY OWNER)
5' SIDEWALK, TYP.
7" CURB, TYP.
RIBBON CURB, TYP.
HEAVY-DUTY PAVEMENT
SLIDING GATES EACH SIDE (SPECS BY OWNER)
20' CLEAR SIGHT TRIANGLE
END SIDEWALK, PHASE 1
PROPOSED 5' SIDEWALK
15' LANDSCAPE BUFFER LINE
PROPOSED 16' ROW DEDICATION TO PASCO COUNTY
MOCKINGBIRD LANE
SOFTWIND LANE
FUTURE ELECTRICAL SUB-STATION
FUTURE LANDSCAPE BUFFER LINE
1,367 SF ACCESSORY STRUCTURE (TO BE REMOVED ON FUTURE ELECTRICAL SUB-STATION CONSTRUCTION)
1,209 SF SINGLE FAMILY RESIDENTIAL AND 261 SF ACCESSORY STRUCTURES (TO BE DEMOLISHED)
WETLAND "B" LINE
SW STORMWATER POND
AREA = 4.21 AC
POND FLOOD ZONE 'A'
WETLAND "B" CATEGORY III CONSERVATION AREA CONTAINING 17,456 SQUARE FEET, MOL
WATERLINE 09/25/17
FUTURE SE STORMWATER POND
AREA = 3.05 AC
WETLAND "A" LINE
POND FLOOD ZONE 'A'
WETLAND "A" CATEGORY III CONSERVATION AREA CONTAINING 24,942 SQUARE FEET, MOL
WATERLINE 08/30/17
N 39°55'12"W 337.35' TO WETLAND 'A' CONSERVATION AREA LINE
232.67' TO WETLAND 'A' CONSERVATION AREA LINE
N89°47'13"W 380.09'(M)
S89°47'22"E 380.00'(R)
S00°06'45"W 344.82'(M)
345.00'(R)
N00°04'31"E
LESSED OUT PORTION (D)
UNPLATTED LANDS
FUTURE DEVELOPMENT
FLOOD ZONE 'X'
UNPLATTED LANDS
N00°03'28"E 1319.85'(M)
WEST LINE OF THE SW 1/4 OF THE NW 1/4 OF THE SE 1/4
EAST LINE OF THE NW 1/4 OF THE SE 1/4
NORTH LINE OF THE S 1/2 OF THE NE 1/4 OF THE SE 1/4
S00°04'48"W 975.43'(M)
EDGE OF PAVEMENT
BARBED WIRE (BW) FENCE
LESS AND EXCEPT
FUTURE LANDSCAPE BUFFER LINE
N89°47'22"W 380.00'(R)
S89°45'17"W 380.36'(M)
FIR 1/2" 0.15'S
FIR 5/8" 0.5'W
FIR 1/2" 0.4'N
FIR 5/8" 0.3'E
FIR 1/2" 0.4'S
FIR 1/2" 0.5'S
FIR 5/8" 0.4'N
FIR 1/2" 0.3'N
FIR 1/2" 0.3'S
FIR 1/2" 0.4'N
FIR 1/2" 0.4

I. MISCELLANEOUS

A. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES, THE ENGINEER, AND THE ARCHITECT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.

B. ALL SPECIFICATIONS AND DOCUMENTS REFEREED TO IN THESE PLANS SHALL BE OF THE LATEST REVISION.

C. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.

D. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVALS. FAILURE TO OBTAIN APPROVALS BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

E. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.

F. THE WATER, SANITARY SEWER, AND STORM DRAINAGE FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF CITY OF TAMPA AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE REQUIRED PERMITS TO PERFORM WORK IN THE PUBLIC RIGHTS-OF-WAYS.

G. IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDING TO THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE SITE UTILITIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF ALL THE UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.

H. ALL MECHANICAL EQUIPMENT SHALL BE SCREENED FROM VIEW, WHEN POSSIBLE.

II. SAFETY

A. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE THE SAFETY OF HIS PERSONNEL.

B. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED TO AND APPROVED BY PASCO COUNTY PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.

C. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA.

D. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH AND SAFETY PROGRAM REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES, SUB CONTRACTORS, AND SUB CONTRACTOR EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. THE CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OSHA OR OCCUPATIONAL REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS.

THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST AS BASIC REQUIREMENTS.

E. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P. ⚠

F. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.

G. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.

H. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

I. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE ONE AT (800)-432-4770.

J. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.

K. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED AS REQUIRED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.

III. SITE PLAN AND COORDINATE CONTROL

A. ARCHITECTURAL BUILDING PLANS PREPARED BY: FLEISCHMAN GARCIA

B. SITE PLAN PREPARED BY AURORA CIVIL ENGINEERING, INC BASED ON CONCEPTUAL LAYOUT FURNISHED BY THE CLIENT.

C. STRUCTURAL AND MECHANICAL PLANS PREPARED BY: FLEISCHMAN GARCIA

D. ELECTRICAL PLANS PREPARED BY: TBD

E. LANDSCAPE PLANS PREPARED BY: ANDERSON LESNIAK LIMITED, INC.

F. BOUNDARY SURVEY PREPARED BY: ROBERTSON & ASSOCIATES SURVEYING INC.

H. ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY. ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.

I. MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT HIS OWN EXPENSE.

J. REFER TO DATUM REFERENCE ON THE GRADING SHEETS. ⚠

K. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.

N. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A REGISTERED LAND SURVEYOR. THE "AS-BUILT" INFORMATION SHALL BE FURNISHED TO THE ENGINEER IN A LEGIBLE FORMAT MARKED ON FULL SIZE PRINTS OF THE APPROPRIATE PLAN SHEETS. THE ENGINEER MUST BE ABLE TO COMPILE THIS INFORMATION ONTO THE ORIGINAL PLAN DOCUMENTS FOR SUBMITTAL TO THE APPROPRIATE AGENCIES FOR FINAL APPROVALS.

THE "AS-BUILT" INFORMATION SHALL CLEARLY AND ACCURATELY REPRESENT ALL CONSTRUCTED ITEMS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1. ELEVATIONS OF ALL STORM SEWER AND SANITARY SEWER STRUCTURE BOTTOMS, TOPS, AND INVERTS.

2. FIELD MEASURED LENGTHS OF PIPES FOR ALL INSTALLED UTILITIES, CONDUITS, SLEEVES, ETC.

3. LOCATIONS OF ALL STRUCTURES, PIPES, CONDUITS, SLEEVES, ETC.

4. CALCULATED SLOPE OF ALL SANITARY SEWER AND STORM SEWER LINES.

5. HORIZONTAL AND VERTICAL CONTROL OF ALL WATER MAIN FITTINGS AND APPURTENANCES, AND HORIZONTAL AND VERTICAL CONTROL OF THE TOPS OF WATER MAINS AT ALL CROSSINGS, AND A MINIMUM OF EVERY 200 LINEAL FEET OF PIPE.

6. HORIZONTAL AND VERTICAL CONTROL OF ALL TOP OF BANKS, TOE OF SLOPES, ALL GRADE BREAKS, BUILDINGS, PONDS, DITCHES, LITTORAL ZONES, ETC.

7. HORIZONTAL AND VERTICAL CONTROL ELEVATIONS OF ALL ELEMENTS OF SANITARY SEWER LIFT STATIONS INCLUDING TOP AND BOTTOM SLABS, INVERTS, ELEVATIONS AT WHICH THE FLOAT SWITCHES ENGAGE, ALL VALVES AND ASSOCIATED APPURTENANCES.

NO ENGINEER'S CERTIFICATE CAN BE SUBMITTED TO OBTAIN A CERTIFICATE OF OCCUPANCY UNTIL THE "AS-BUILT" INFORMATION IS RECEIVED, REVIEWED, AND APPROVED BY THE ENGINEER AND THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL ALLOW THE ENGINEER A MINIMUM OF FOUR WEEKS UPON RECEIPT TO COMPLETE THE REVIEW OF THE "AS-BUILT" INFORMATION AND COMPILE THE NECESSARY DRAWINGS FOR SUBMITTAL TO THE APPROPRIATE AGENCIES.

M. ALL DIMENSIONS SHOWN ON THE PLANS ARE TO FACE OF BUILDING, FACE OF CURBING, OR CENTERLINES OF STRUCTURES, UNLESS OTHERWISE NOTED ON THE PLANS.

IV. CLEARING / DEMOLITION

A. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED ON THE CONSTRUCTION AND LANDSCAPE PLANS SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES AS WELL AS DETAILS AND NOTES PROVIDED IN THIS PLAN SET. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM CITY OF TAMPA.

B. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. COPIES OF THE SOILS REPORT ARE AVAILABLE THROUGH THE OWNER. QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS DESCRIBED IN THE SOILS REPORT ARE TO BE DIRECTED TO THE SOILS TESTING COMPANY.

C. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIALS IMMEDIATELY FOLLOWING CONSTRUCTION.

D. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS, OR AS DIRECTED BY THE OWNER.

5. PAVING AND GRADING

A. ALL DELETERIOUS SUBSURFACE MATERIAL, (I.E. MUCK, PEAT, BURIED DEBRIS), IS TO EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR THE OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY OWNER. EXCAVATED AREAS TO BE BACKFILLED WITH APPROPRIATE MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.

C. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOIL REPORT.

D. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES UNLESS OTHERWISE NOTED ON PLANS. FINISHED GRADES OR CONTOURS IN SODDED AREAS REPRESENT FINISH GRADES AFTER PLACEMENT OF SOD.

E. THE CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

F. CURBING WILL BE PLACED AT THE EDGE OF ALL PAVEMENT, WHERE SHOWN ON THE PLANS.

G. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. CURBING AND GUTTERS CALLED FOR IN THESE PLANS. REFER TO DETAILS IN THESE PLANS FOR MODIFIED CURB DETAILS.

H. CONTRACTOR TO PROVIDE 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS, (BUILDINGS, OTHER PLACED CONCRETE, ETC...).

I. ALL PAVEMENT MARKINGS WITHIN RIGH-OF-WAY SHALL BE MADE WITH PERMANENT THERMOS=PLASTIC AND SHALL CONFORM TO F.D.O.T. STADARD INDEX NO. 17346, SHEETS 1-7. PARKING TALL STRIPING TO BE 4" WIDE PAINTED STRIPES. ON-SITE STRIPING COLORS AS SHOWN ON THESE PLANS.

J. CONTRACTOR IS TO PROVIDE EROSION CONTROL AND SEDIMENT BARRIERS, (HAY BALES AND/OR SILTATION CURTAIN), TO PREVENT SILTATION OF ADJACENT PROPERTIES, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.

K. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREAS USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.

L. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. THE CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER.

M. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE SOILS TESTING. TESTS WILL BE REQUIRED PURSUANT WITH THE TESTING SCHEDULE LOCATED ON TABLE SC-1 ON THIS SHEET. UPON COMPLETION OF THE WORK, THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

N. A QUALIFIED TESTING LABORATORY SELECTED BY THE OWNER SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL TESTING.

O. MIXING IN PLACE OF SOIL CEMENT WILL NOT BE ALLOWED.

VI. DRAINAGE

A. STANDARD INDEXES REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS".

B. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III, (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON PLANS.

C. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO THE CENTER OF DRAINAGE STRUCTURES WITH THE EXCEPTION OF MITERED AND FLARED END SECTIONS WHICH ARE NOT INCLUDED IN LENGTHS, THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SUBMITTED FOR BID.

D. ALL DRAINAGE STRUCTURE GRATES AND COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.

E. ALL STORM DRAINAGE PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CITY OF TAMPA 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS.

F. THE CONTRACTOR SHALL MAINTAIN AND PROTECT THE STORM DRAINAGE SYSTEM FROM MUD, DIRT, DEBRIS, ETC., UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.

VII. SANITARY SEWER

A. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED.

ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.

B. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM THE JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

C. ALL SANITARY SEWER MAINS, LATERALS, AND FORCE MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.

D. ALL ON SITE PVC GRAVITY SANITARY SEWER PIPE SHALL BE MADE OF MATERIAL HAVING A CELL CLASSIFICATION OF 12454 B, 12454 C, OR 13354 B AS DEFINED IN ASTM-1784 AND CONFORM TO THE REQUIREMENTS OF SDR 26. ELASTOMERIC GASKET JOINTS SHALL BE UTILIZED.

E. ALL ON SITE DUCTILE IRON PIPE SHALL BE CLASS 52 AND SHALL RECEIVE INTERIOR AND EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8, OR A 21.51.

F. POINTS OF CONNECTION FOR THE SANITARY SEWER LINES ARE TO BE COORDINATED WITH THE BUILDING PLUMBING PLANS. SANITARY SEWER CONNECTION LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE.

G. ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE STANDARDS AND SPECIFICATIONS FOR PASCO COUNTY.

H. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW SANITARY SEWER LINES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES NEAR THE POINT OF CONNECTION AND NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITH DESIGN INFORMATION SHOWN IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CITY OF TAMPA AT LEAST 48 HOURS IN ADVANCE OF SCHEDULED WORK.

I. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VIDEO AND VISUAL INSPECTION BY THE OWNER'S ENGINEER AND PASCO COUNTY PRIOR TO PLACEMENT OF BASE AND PAVING AND AGAIN PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS.

J. THE CONTRACTOR SHALL PERFORM AT HIS OWN EXPENSE AN INFILTRATION OR EXFILTRATION TEST, A TELEVISION INSPECTION, AND A MANDREL (GO, NO GO) TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE ENGINEER'S REQUIREMENTS AND THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION OF TESTING AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

VIII. WATER DISTRIBUTION

A. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED.

ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.

B. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM THE JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

C. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.

D. ALL WATER SYSTEM WORK SHALL CONFORM WITH PASCO COUNTY STANDARDS AND SPECIFICATIONS.

E. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER ARE TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.

F. ALL ON SITE PVC WATER MAINS 4 INCHES THROUGH 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C-900 AND SHALL BE CLASS 150 DR 18. ALL ON SITE PVC WATER MAINS 2 INCHES TO 3 INCHES SHALL BE CLASS 1120 AND MEET REQUIREMENTS OF SDR 21 IN ACCORDANCE WITH ASTM D-2241.

G. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARD A21.51, MINIMUM CLASS 50. JOINTS FOR DUCTILE IRON PIPE SHALL BE MECHANICAL OR PUSH-ON JOINTS. PIPE SHALL HAVE AN EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A21.51. PIPE INTERIOR SHALL HAVE A CEMENT MORTAR LINING WITH AN ASPHALTIC SEAL COAT CONFORMING TO AWWA /ANSI C104/A21.4. THE WEIGHT AND CLASS DESIGNATION SHALL BE PAINTED IN WHITE ON THE EXTERIOR SURFACE OF ALL PIPES AND FITTINGS. MANUFACTURER'S CODE OR SERIAL NUMBER SHALL BE PROVIDED ON THE BELL OF EACH PIPE JOINT.

H. ALL DUCTILE FITTINGS SHALL BE MECHANICAL JOINT WITH A MINIMUM PRESSURE RATING OF 250 PSI AND SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA A21.10/C110. ALL FITTINGS SHALL BE COATED AND LINED AS SPECIFIED ABOVE FOR DUCTILE IRON PIPE.

I. THE CONTRACTOR IS TO INSTALL TEMPORARY BLOWOFFS AT THE END OF WATER SERVICE LATERALS TO BUILDINGS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION.

J. THRUST BLOCKING SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS AS SHOWN ON DETAILS. ALL JOINTS SHALL BE RESTRAINT JOINT FITTINGS.

K. POINTS OF CONNECTION OF THE EXTERNAL WATER LINES ARE TO COINCIDE WITH THE BUILDING PLUMBING AS SHOWN ON THE BUILDING PLUMBING PLANS. CONNECTION LOCATIONS SHOWN ARE APPROXIMATE.

L. FIRE LINES TO BUILDINGS WITH FIRE SPRINKLER SYSTEMS SHALL BE INSTALLED BY A CONTRACTOR DULY LICENSED BY THE STATE FIRE MARSHAL'S OFFICE. THE CONTRACTOR SHALL VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION.

M. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY INSPECTED AND ACCEPTED BY THE OWNER'S ENGINEER AND CITY OF TAMPA UTILITY DEPARTMENT SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER AND CITY OF TAMPA INSPECTORS 72 HOURS IN ADVANCE OF PERFORMING TESTS.

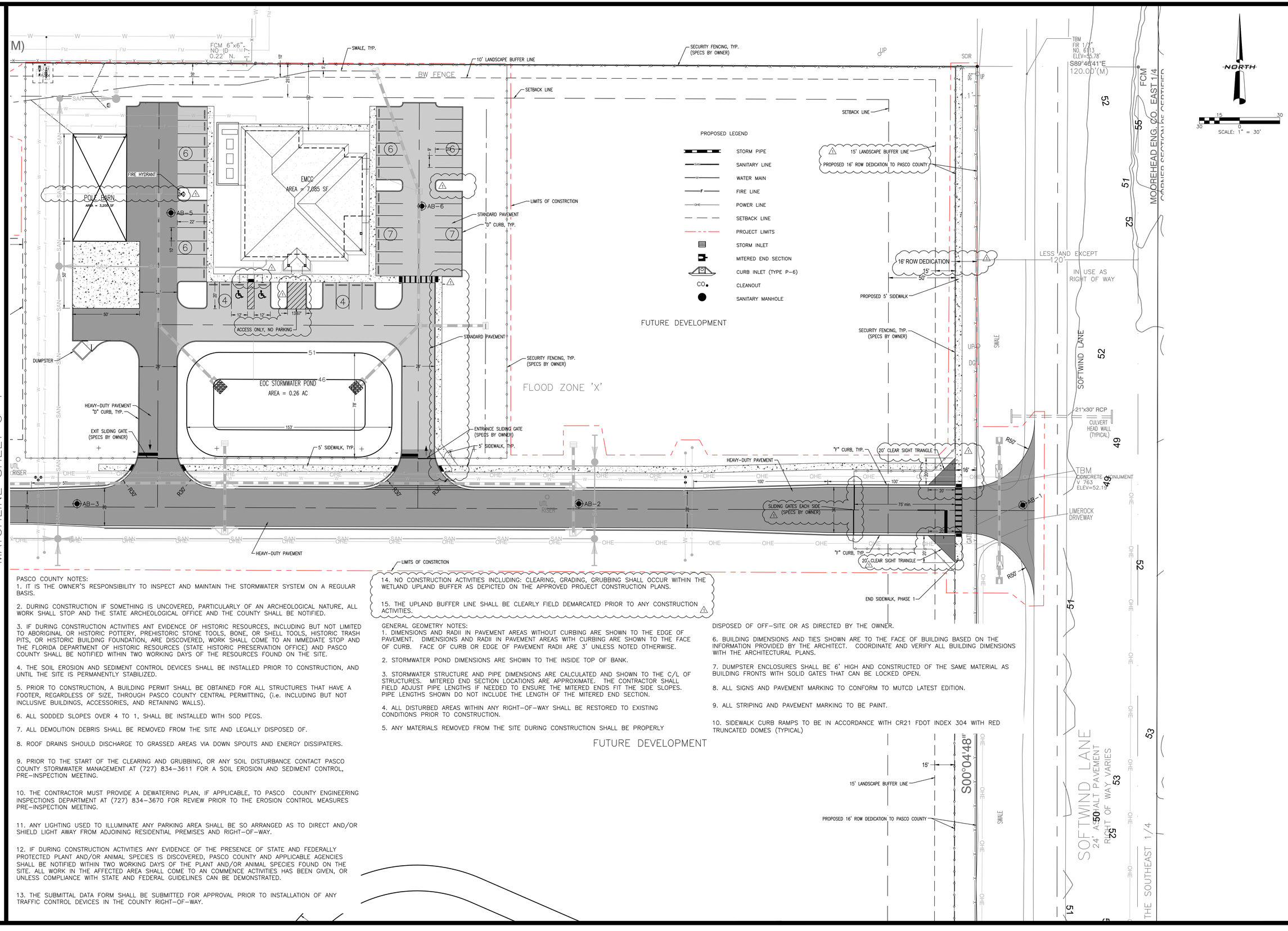
N. THE CONTRACTOR SHALL CONTRACT WITH A QUALIFIED LABORATORY TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO THE OWNER'S ENGINEER.

O. WATER MAIN SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE BURIED OVER THE WATER MAIN.

IX. EROSION/TURBIDITY CONTROL

A. THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.

B. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHALL BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORMWATER RUNOFF FROM BEING DISCHARGED INTO WETLAND OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES AND OTHER EROSION/TURBIDITY C



MATCHLINE SHEET C-4

PASCO COUNTY NOTES:

1. IT IS THE OWNER'S RESPONSIBILITY TO INSPECT AND MAINTAIN THE STORMWATER SYSTEM ON A REGULAR BASIS.

2. DURING CONSTRUCTION IF SOMETHING IS UNCOVERED, PARTICULARLY OF AN ARCHEOLOGICAL NATURE, ALL WORK SHALL STOP AND THE STATE ARCHEOLOGICAL OFFICE AND THE COUNTY SHALL BE NOTIFIED.

3. IF DURING CONSTRUCTION ACTIVITIES ANT EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE TOOLS, BONE, OR SHELL TOOLS, HISTORIC TRASH PITS, OR HISTORIC BUILDING FOUNDATION, ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC PRESERVATION OFFICE) AND PASCO COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES FOUND ON THE SITE.

4. THE SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, AND UNTIL THE SITE IS PERMANENTLY STABILIZED.

5. PRIOR TO CONSTRUCTION, A BUILDING PERMIT SHALL BE OBTAINED FOR ALL STRUCTURES THAT HAVE A FOOTER, REGARDLESS OF SIZE, THROUGH PASCO COUNTY CENTRAL PERMITTING, (i.e. INCLUDING BUT NOT INCLUSIVE BUILDINGS, ACCESSORIES, AND RETAINING WALLS).

6. ALL SODDED SLOPES OVER 4 TO 1, SHALL BE INSTALLED WITH SOD PEGS.

7. ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.

8. ROOF DRAINS SHOULD DISCHARGE TO GRASSED AREAS VIA DOWN SPOUTS AND ENERGY DISSIPATERS.

9. PRIOR TO THE START OF THE CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE CONTACT PASCO COUNTY STORMWATER MANAGEMENT AT (727) 834-3611 FOR A SOIL EROSION AND SEDIMENT CONTROL, PRE-INSPECTION MEETING.

10. THE CONTRACTOR MUST PROVIDE A DEWATERING PLAN, IF APPLICABLE, TO PASCO COUNTY ENGINEERING INSPECTIONS DEPARTMENT AT (727) 834-3670 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.

11. ANY LIGHTING USED TO ILLUMINATE ANY PARKING AREA SHALL BE SO ARRANGED AS TO DIRECT AND/OR SHIELD LIGHT AWAY FROM ADJOINING RESIDENTIAL PREMISES AND RIGHT-OF-WAY.

12. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE AND FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, PASCO COUNTY AND APPLICABLE AGENCIES SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE. ALL WORK IN THE AFFECTED AREA SHALL COME TO AN COMMENCE ACTIVITIES HAS BEEN GIVEN, OR UNLESS COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.

13. THE SUBMITTAL DATA FORM SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION OF ANY TRAFFIC CONTROL DEVICES IN THE COUNTY RIGHT-OF-WAY.

14. NO CONSTRUCTION ACTIVITIES INCLUDING: CLEARING, GRADING, GRUBBING SHALL OCCUR WITHIN THE WETLAND UPLAND BUFFER AS DEPICTED ON THE APPROVED PROJECT CONSTRUCTION PLANS.

15. THE UPLAND BUFFER LINE SHALL BE CLEARLY FIELD DEMARCATED PRIOR TO ANY CONSTRUCTION ACTIVITIES.

GENERAL GEOMETRY NOTES:

1. DIMENSIONS AND RADII IN PAVEMENT AREAS WITHOUT CURBING ARE SHOWN TO THE EDGE OF PAVEMENT. DIMENSIONS AND RADII IN PAVEMENT AREAS WITH CURBING ARE SHOWN TO THE FACE OF CURB. FACE OF CURB OR EDGE OF PAVEMENT RADII ARE 3' UNLESS NOTED OTHERWISE.

2. STORMWATER POND DIMENSIONS ARE SHOWN TO THE INSIDE TOP OF BANK.

3. STORMWATER STRUCTURE AND PIPE DIMENSIONS ARE CALCULATED AND SHOWN TO THE C/L OF STRUCTURES. MITERED END SECTION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD ADJUST PIPE LENGTHS IF NEEDED TO ENSURE THE MITERED ENDS FIT THE SIDE SLOPES. PIPE LENGTHS SHOWN DO NOT INCLUDE THE LENGTH OF THE MITERED END SECTION.

4. ALL DISTURBED AREAS WITHIN ANY RIGHT-OF-WAY SHALL BE RESTORED TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

5. ANY MATERIALS REMOVED FROM THE SITE DURING CONSTRUCTION SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE OWNER.

6. BUILDING DIMENSIONS AND TIES SHOWN ARE TO THE FACE OF BUILDING BASED ON THE INFORMATION PROVIDED BY THE ARCHITECT. COORDINATE AND VERIFY ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL PLANS.

7. DUMPSTER ENCLOSURES SHALL BE 6' HIGH AND CONSTRUCTED OF THE SAME MATERIAL AS BUILDING FRONTS WITH SOLID GATES THAT CAN BE LOCKED OPEN.

8. ALL SIGNS AND PAVEMENT MARKING TO CONFORM TO MUTCD LATEST EDITION.

9. ALL STRIPING AND PAVEMENT MARKING TO BE PAINT.

10. SIDEWALK CURB RAMPS TO BE IN ACCORDANCE WITH CR21 FDOT INDEX 304 WITH RED TRUNCATED DOMES (TYPICAL)

FUTURE DEVELOPMENT

REVISIONS

NO.	BY	DATE	DESCRIPTION
1	TDG	2-27-2018	ADDRESS, PASCO COUNTY COMMENTS

DESIGNED BY: MICHAEL KNIGHT
DRAWN BY: MICHAEL KNIGHT
CHECKED BY: CHRIS WEDDLE
APPROVED BY: ---
DATE: 12-21-2017
JOB NO.: 17-172

HORIZONTAL CONTROL PLAN

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY

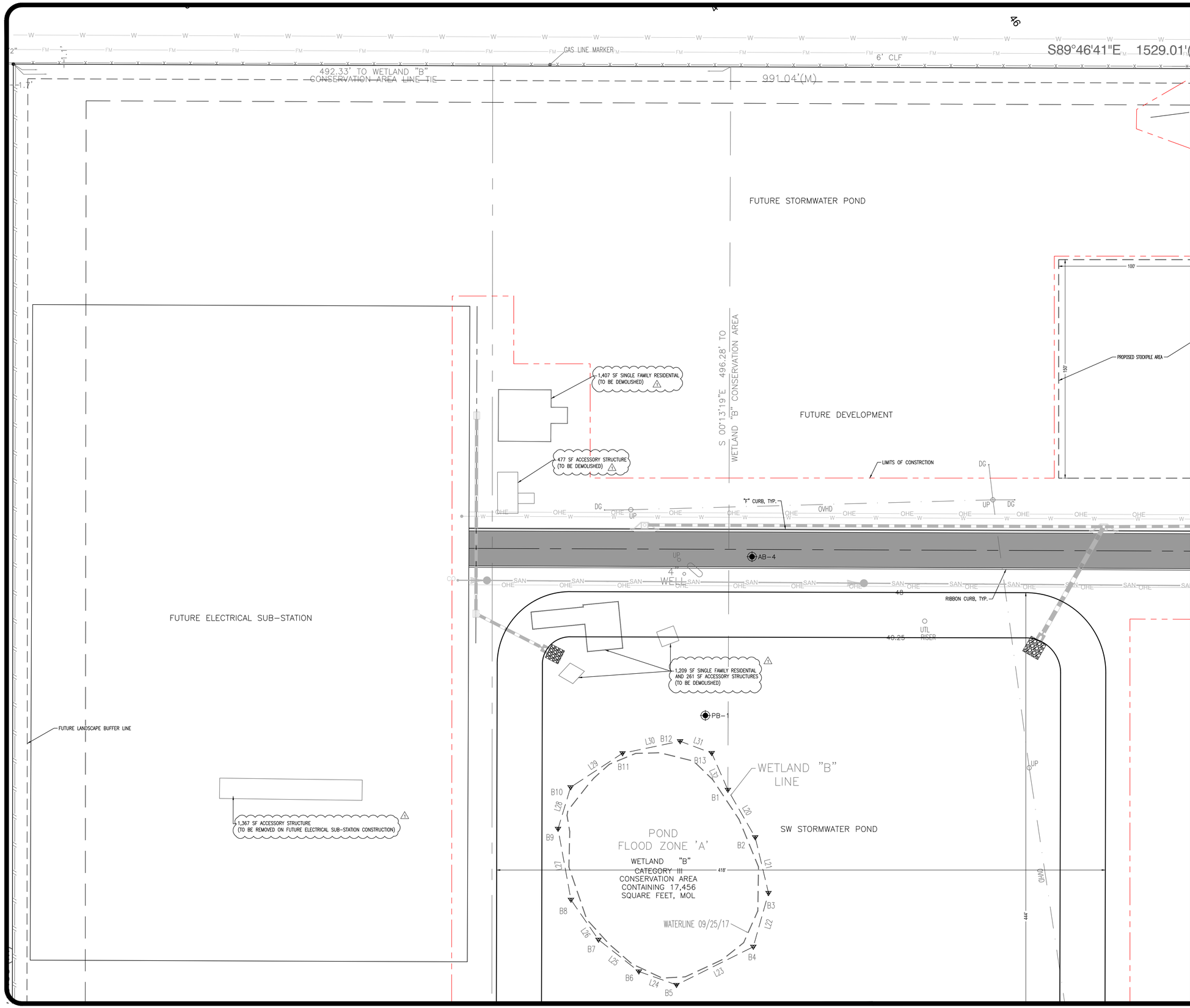
SEMINOLE ELECTRIC COOPERATIVE INC.
1633 N. DALE MABRY HWY
TAMPA, FL 33618

AURORA CIVIL ENGINEERING, INC
610 E. Morgan Street Brandon, FL 33510 (813)643-9907
CERTIFICATE OF AUTHORIZATION No. 00008909

This item has been electronically signed and sealed by Christopher F. Nietzsche, PE on 2/27/2018 using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CHRISTOPHER F. NIETZSCHE, P.E.
FLORIDA REGISTRATION NO. 68184

C-3



REVISIONS	NO.	BY	DATE	DESCRIPTION
5				
4				
3				
2	1	TDG	2-27-2018	ADDRESSED PASCO COUNTY COMMENTS

DESIGNED BY: MICHAEL KNIGHT
DRAWN BY: MICHAEL KNIGHT
CHECKED BY: CHRIS WEDDLE
APPROVED BY: ---
DATE: 12-21-2017
JOB NO. 17-172

HORIZONTAL CONTROL PLAN

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY

SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

AURORA CIVIL ENGINEERING, INC
610 E. Morgan Street Brandon, FL 33510 (813)843-9907

This item has been electronically signed and sealed by Christopher E. Weddle, PE on 2/27/2018 using a Digital Signature.

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STATE OF FLORIDA
CHRISTOPHER E. WEDDLE, P.E.
LICENSE NO. 0059909
CERTIFICATE OF AUTHORIZATION NO. 00003909

C-4

GENERAL GRADING NOTES:
1. PAVEMENT SPOT GRADES SHOWN ARE FINISH PAVEMENT GRADES AT THE FACE OF CURB. TOP OF STANDARD CURBING IN THESE AREAS IS 0.5 FEET ABOVE THE EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.

2. SPOT GRADES AND CONTOURS SHOWN IN GRASSED AND LANDSCAPED AREAS REPRESENT FINAL PROPOSED GRADES AFTER PLACEMENT OF SODDING AND/OR BEDDING MATERIALS.

3. IN AREAS WHERE THE TOP OF CURB OR SIDEWALK VARY FROM THE TYPICAL SECTIONS, THE TOP OF CURB OR SIDEWALK ARE LABELED AS "TC" OR "S/W".

4. DISABLED PARKING SPACES AND ADJACENT ACCESS AISLES ARE DESIGNED TO HAVE 2% OR FLATTER CROSS SLOPES IN ALL DIRECTIONS. PROPOSED PAVEMENT GRADES ARE SHOWN AT ALL CORNERS OF DISABLED SPACES AND ADJACENT ACCESS AISLES.

5. SIDEWALK/CURB RAMPS SHALL BE CONSTRUCTED PER FDOT INDEX #304, LATEST EDITION).

6. WHERE PROPOSED SIDEWALKS ARE FLUSH WITH PAVEMENT, CONSTRUCT 3 LF HEIGHT TRANSITIONS TO MATCH TOP OF CURB TO SIDEWALK/PAVEMENT GRADES, UNLESS NOTED OTHERWISE.

7. SIDEWALK CROSS SLOPES CANNOT EXCEED 2% AND LONGITUDINAL SLOPE CANNOT EXCEED 5% FOR THE ACCESSIBLE ROUTE.

NORTH
SCALE: 1" = 20'

PROPOSED LEGEND
- STORM PIPE
- SANITARY LINE
- WATER MAIN
- FIRE LINE
- POWER LINE
- SETBACK LINE
- PROJECT LIMITS
- EROSION CONTROL
- STORM INLET
- MITERED END SECTION
- CURB INLET (TYPE P-6)
- CLEANOUT
- SANITARY MANHOLE
- 00.00 / 00.00 PROPOSED ELEVATION
- 0.00% PROPOSED SLOPE

GAS LINE MARKER
6' CLF
S89°46'41"E 1529.01'(M)
991.04'(M)
S 00°13'19"E 496.28' TO WETLAND "B" CONSERVATION AREA
POTENTIALLY OCCUPIED BURROW
DIVERSION SWALE, TYP.
1,407 SF SINGLE FAMILY RESIDENTIAL (TO BE DEMOLISHED) 1
136 LF 24" RCP @ 0.19%
477 SF ACCESSORY STRUCTURE (TO BE DEMOLISHED) 2
FUTURE DEVELOPMENT
CEDAR TREE LINE
LIMITS OF CONSTRCTION
"F" CURB, TYP.
315 LF 18" RCP @ 0.33%
220 LF 30" RCP @ 0.34%
88 LF 36" RCP @ 0.34%
100 LF 15" RCP @ 0.30%
RIBBON CURB, TYP.
PROPOSED STOCKPILE AREA
POLE BARN
DUMPSTER
EXIT SLIDING GATE 10' (SPECS BY OWNER)
AB-1
AB-2
AB-3
AB-4
ST-1
ST-2
ST-3
ST-4
ST-5
ST-6
ST-7
ST-8
ST-9
ST-10
ST-11
ST-12
ST-13
ST-14
ST-15
ST-16
ST-17
ST-18

MATCHLINE SHEET C-7

MATCHLINE SHEET C-6

NO DEVELOPMENT WITHOUT ERP PERMIT MODIFICATION

VERTICAL DATUM CONVERSION:
SURVEY VERTICAL DATUM SHOWN IS BASED ON NAVD88 BENCHMARK V763, ELEVATION 52.19

NGVD 1929 = (NAVD 88 + 0.83')
NAVD88 ELEVATION 52.19 = NGVD29 ELEVATION 53.02
CONVERSION CALCULATED UTILIZING VERTCON (VERSION 2.0)

NO.	BY	DATE	DESCRIPTION
1	MHK	1-29-2018	ADDRESS FDOT ERP INITIAL COMMENTS
2	MHK	2-27-2018	ADDRESS PASCO COUNTY COMMENTS

DRAWN BY: MICHAEL KNIGHT
DATE: 12-21-2017
JOB NO. 17-172
DESIGNED BY: MICHAEL KNIGHT
APPROVED BY: ---
CHECKED BY: CHRIS WEDDLE

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY
SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

GRADING PLAN

AURORA CIVIL ENGINEERING, INC
810 E. Morgan Street Brandon, FL 33510 (813)643-9907

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CHRISTOPHER E. REDDY, P.E.
FLORIDA REGISTRATION NO. 0052469
CERTIFICATE OF AUTHORIZATION No. 0052809

C-5

MATCHLINE SHEET C-5

MATCHLINE SHEET C-7

NO DEVELOPMENT WITHOUT ERP PERMIT MODIFICATION

VERTICAL DATUM CONVERSION:
SURVEY VERTICAL DATUM SHOWN IS BASED ON NAVD88
BENCHMARK V763, ELEVATION 52.19

NGVD 1929 = (NAVD 88 + 0.83')
NAVD88 ELEVATION 52.19 = NGVD29 ELEVATION 53.02
CONVERSION CALCULATED UTILIZING VERTCON (VERSION 2.0)

NORTH

SCALE: 1" = 20'

PROPOSED LEGEND

- STORM PIPE
- SANITARY LINE
- WATER MAIN
- FIRE LINE
- POWER LINE
- SETBACK LINE
- PROJECT LIMITS
- EROSION CONTROL
- STORM INLET
- MITERED END SECTION
- CURB INLET (TYPE P-6)
- CLEANOUT
- SANITARY MANHOLE
- PROPOSED ELEVATION
- PROPOSED SLOPE

FUTURE DEVELOPMENT

FLOOD ZONE 'X'

EMCC
AREA = 7,085 SF
EL 53.00

EOC STORMWATER POND
AREA = 0.26 AC
TOB≤51.0
DHW(100)=49.61
BOTTOM=46.0

BW FENCE

10' LANDSCAPE BUFFER LINE

15' LANDSCAPE BUFFER LINE

SECURITY FENCING, TYP. (SPECS BY OWNER)

ENTRANCE SLIDING GATE (SPECS BY OWNER)

5' SIDEWALK, TYP.

ACCESS ONLY, NO PARKING

HEAVY-DUTY PAVEMENT

LIMITS OF CONSTRUCTION

SLIDING GATES EACH SIDE (SPECS BY OWNER)

20' CLEAR SIGHT TRIANGLE

"F" CURB, TYP.

95 LF 18" RCP @ 0.25%
100 LF 18" RCP @ 0.25%
50 LF 15" RCP @ 0.25%
60 LF 18" RCP @ 0.25%
66 LF 24" RCP @ 0.16%
29 LF 24" RCP @ 1.02%
104 LF 36" RCP @ 0.19%
260 LF 30" RCP @ 0.77%
49.70 24" RCP @ 0.41%
36 LF 15" RCP @ 0.36%
36 LF 15" RCP @ 0.42%

AB-1 AB-2 AB-3 AB-4 AB-5 AB-6

ST-1 ST-2 ST-3 ST-4 ST-5 ST-8 ST-9 ST-10 ST-11 ST-14 ST-15 ST-16 ST-21 ST-22

8'x8' (MIN) RIP-RAP, SEE DETAIL SHEET

17+00 18+00 19+00 20+00 21+00 22+00

NO.	BY	DATE	DESCRIPTION
1	MHS	1-29-2018	ADDRESSED PASCO COUNTY COMMENTS
2	TG	2-27-2018	ADDRESSED TDEP ERP INITIAL COMMENTS
3	-	-	-
4	-	-	-
5	-	-	-

DRAWN BY: MICHAEL KNIGHT
DATE: 12-21-2017
DESIGNED BY: MICHAEL KNIGHT
JOB NO. 17-172
CHECKED BY: CHRIS WEDDLE
APPROVED BY: --- ---

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY

SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

GRADING PLAN

AURORA
CIVIL ENGINEERING, INC
810 E. Morgan Street Brandon, FL 33510 (813)643-9907

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CHRISTOPHER F. WEDDLE, P.E.
LICENSE NUMBER 66544
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION No. 30008909

C-6

MATCHLINE SHEET C-5

POND
FLOOD ZONE 'A'

WETLAND "B"
CATEGORY III
CONSERVATION AREA
CONTAINING 17,456
SQUARE FEET, MOL

WETLAND "B" LINE

SW STORMWATER POND
AREA = 4.21 AC
TOB=48.0
DHW(100)=47.02
BOTTOM=40.25

56 LF 30" RCP @ 2.70%

DIVERSION SWALE, TYP.

10'x10' (MIN) RIP-RAP, SEE DETAIL SHEET

12'x12' (MIN) RIP-RAP, SEE DETAIL SHEET

1,209 SF SINGLE FAMILY RESIDENTIAL AND 261 SF ACCESSORY STRUCTURES (TO BE DEMOLISHED)

PB-1

PB-2

WATERLINE 09/25/17

SHW MARKER EL. = 40.20'

SHW MARKER EL. = 40.25'

POTENTIALLY OCCUPIED BURROW

NO DEVELOPMENT WITHOUT ERP PERMIT MODIFICATION

LIMITS OF CONSTRCTION

PLANTED PINE TREE LINE

OAK TREES

VERTICAL DATUM CONVERSION:
SURVEY VERTICAL DATUM SHOWN IS BASED ON NAVD88
BENCHMARK V763, ELEVATION 52.19

NGVD 1929 = (NAVD 88 + 0.83')
NAVD88 ELEVATION 52.19 = NGVD29 ELEVATION 53.02
CONVERSION CALCULATED UTILIZING VERTCON (VERSION 2.0)

PROPOSED LEGEND

- STORM PIPE
- SANITARY LINE
- WATER MAIN
- FIRE LINE
- POWER LINE
- SETBACK LINE
- PROJECT LIMITS
- EROSION CONTROL
- STORM INLET
- MITERED END SECTION
- CURB INLET (TYPE P-6)
- CLEANOUT
- SANITARY MANHOLE
- PROPOSED ELEVATION
- PROPOSED SLOPE

NORTH

SCALE: 1" = 20'

NO.	BY	DATE	DESCRIPTION
1	MHK	1-29-2018	ADDRESSED PASCO COUNTY COMMENTS
2	MHK	2-27-2018	ADDRESSED TDEP ERP INITIAL COMMENTS

DESIGNED BY: MICHAEL KNIGHT
DRAWN BY: MICHAEL KNIGHT
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GRADING PLAN

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CHRISTOPHER E. REDDY, P.E.
LICENSE NO. 0070440
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION No. 00026909

C-7

Wastewater pump station start–up test whether County–owned or privately owned must be scheduled ten (10) business days in advance by the contractor or his representatives by contacting Genny Sikes, Engineering Records Technician at (813) 235–6189. The Pasco County Utilities inspector and Operation and Sewer Maintenance staff must be present as part of the Florida Department of Environmental Protection (FDEP) Certification/Clearance process.

Contractor shall apply for taps and jumper meters as applicable. Requests should be sent to Genny Sikes, gsikes@pascocountyfl.net.

NOTE:
In consideration of Pasco County's agreement to provide potable water and/or reclaimed water to the subject property, Developer/Owner, and its successors and assigns, agree to the following:

A. In the event of Production Failure or Shortfall by Tampa Bay Water, as set forth in section 3.19 of the Interlocal Agreement creating Tampa Bay Water, Developer/Owner shall transfer to Pasco County any and all water use permits or water use rights the Developer/Owner may have to use or consume surface or ground water within Pasco County.
B. Prior Developer/owner selling water or water use permits or water sue rights, Developer/Owner shall notify Pasco County, and Pasco County shall have a right of first refusal to purchase such water or water use permits or water use rights.

PROPOSED LEGEND

- STORM PIPE
- SANITARY LINE
- WATER MAIN
- FIRE LINE
- POWER LINE
- SETBACK LINE
- PROJECT LIMITS
- EROSION CONTROL
- STORM INLET
- MITERED END SECTION
- CURB INLET (TYPE P–6)
- CLEANOUT
- SANITARY MANHOLE

12" PVC WATER LINE PER PASCO COUNTY UTILITY ATLAS
12" PVC FORCE MAIN PER PASCO COUNTY UTILITY ATLAS
12"x2" TAPPING SLEEVE, 2" MJ/FL GATE VALVE W/ BOX. TAP TO BE PERFORMED BY PASCO COUNTY PERSONNEL
±32 LF 2" PVC FORCE MAIN
FCM 6"x6" NO ID 0.22' N.
S89°46'41"E 1529.01'(M)
991.04'(M)
GAS LINE MARKER
6' CLF
AND "B" A LINE TIE
SEE WATER SERVICES DETAIL SHEET C–9
±50 LF ~ 1" "BLUE" PE WATER SERVICE
±2 LF 8" PVC @0.4%
MASTER LIFT STATION
±165 LF ~ 2" SDR21 PVC WATER LINE
MASTER FIRE & WATER METER ASSEMBLIES
8"x6" TEE
±125 LF ~ 6" C900 DR14 PVC FIRE LINE
4"x2"x2" WALL–MOUNTED FDC, SEE FIRE PROTECTION PLANS
±300 LF ~ 4" C900 DR14 PVC WATER LINE
±295 LF ~ 8" C900 DR14 PVC FIRE LINE
FIRE HYDRANT
POLE BARN AREA = 3,200 SF
125 LF 8" PVC @0.4%
±103 LF ~ 6" C900 DR14 PVC FIRE LINE
100 LF 15" RCP @ 0.30%
AB–5
PROPOSED STOCKPILE AREA
203 LF 8" PVC @0.4%
DUMPSTER
ACCESS ONLY, NO PARKING
HEAVY–DUTY PAVEMENT "D" CURB, TYP.
EXIT SLIDING GATE (SPECS BY OWNER)
60 LF 18" RCP @ 0.25%
EOC STORMWATER AREA = 0.26 AC
8'x8' (MIN) RIP–RAP, SEE DETAIL SHEET
±483 LF ~ 8" C900 DR14 PVC FIRE LINE
±483 LF ~ 4" C900 DR14 PVC WATER LINE
24 LF 24" RCP @ 0.41%
36 LF 15" RCP @ 0.36%
HEAVY–DUTY PAVEMENT
FUTURE STORMWATER POND
FUTURE DEVELOPMENT
S 00°13'19"E 496.28' TO WETLAND "B" CONSERVATION AREA
DIVERSION SWALE, TYP.
1,407 SF SINGLE FAMILY RESIDENTIAL (TO BE DEMOLISHED)
136 LF 24" RCP @ 0.19%
477 SF ACCESSORY STRUCTURE (TO BE DEMOLISHED)
LIMITS OF CONSTRCTION
"F" CURB, TYP.
±520 LF ~ 2" SDR21 PVC WATER LINE
2" BLOW–OFF ASSEMBLY, TYP.
315 LF 18" RCP @ 0.33%
220 LF 30" RCP @ 0.34%
AB–4
AB–3
±60 LF ~ 4" C900 DR14 PVC WATER LINE
±60 LF ~ 8" C900 DR14 PVC FIRE LINE
80 LF 36" RCP @ 0.34%
20 LF 8" PVC @0.4% & PLUG
259 LF 8" PVC @0.4%
RIBBON CURB, TYP.
260 LF 8" PVC @0.4%
2" BLOW–OFF ASSEMBLY, TYP.
20 LF 8" PVC @0.4% & PLUG
56 LF 30" RCP @ 2.70%
DIVERSION SWALE, TYP.
10'x10' (MIN) RIP–RAP, SEE DETAIL SHEET
1,209 SF SINGLE FAMILY RESIDENTIAL AND 261 SF ACCESSORY STRUCTURES (TO BE DEMOLISHED)
12'x12' (MIN) RIP–RAP, SEE DETAIL SHEET
48.25
UTL RISER
PB–1
WETLAND "B" LINE
POND FLOOD ZONE 'A'
WETLAND "B" CATEGORY III CONSERVATION AREA CONTAINING 17,456 SQUARE FEET, MOL
SW STORMWATER POND
AREA = 4.21 AC
WATERLINE 09/25/17
MATCHLINE SHEET C–9

Contractor's Responsibilities regarding wet taps two inches and larger shall be as follows:

- 2" Only This excavated trench must be dry or the trench will require rock and a pump to be in place. The minimum distance from the face of the valve to the wall of the trench is to be six feet. The County will tapping the tapping saddle, corporation stop, stainless steel nipple, and iron body valve.
- 3" and Larger The contractor will supply a tapping saddle being epoxy coated, a tapping valve with mechanical joint and the equipment to provide, and conduct a pressure test. County personnel will witness the pressure test which must be at 150 psi for duration of thirty minutes.
- The contractor is responsible for the excavation before any County personnel will enter an excavated area. If the trench is four feet in depth or deeper, it will require a trench box or sloping, and a ladder according to Occupational Safety and Health Administration (OSHA) standards.
- The tapping valve will require a blocking device made of suitable material or device. This blocking device or material will be placed under the valve and remain in place until the tap machine is removed and the tap is completed.
- Note: If the contractor has not fulfilled his responsibilities, as stated above, prior to the arrival of Pasco County Utilities Operations and Maintenance tapping crew, there will be an additional charge of $96.00. If you have any questions regarding this information, contact Nelson D. Holt, Maintenance Supervisor, Utilities Services Branch, at (813) 235 6189, or e–mail nholt@pascocountyfl.net.

FUTURE DEVELOPMENT

SPECIFIC PASCO COUNTY NOTES:

Fire hydrants shall be flow–tested and color–coded based on flow results. Results shall be submitted to Pasco County Fire Rescue and Pasco County Utilities.

"All utility system–design materials and workmanship shall comply with Standards for Design and Construction of Water, Wastewater, and Reclaimed Water Facilities Specifications," latest edition.

Connections into an existing County–owned system shall be via wet tap. Wet taps shall be performed exclusively by the Utilities Services Branch at the developer's expense. Excavation, backfill, and surface restoration shall be the contractor's responsibility. Material for wet taps larger than two inches shall be provided and installed by the project contractor

The Utilities Services Branch shall not own or maintain on–site waterlines, sewer lines, or facilities, unless otherwise approved by the Utilities Services Branch

STORM STRUCTURES

ST–6
TYPE C INLET
GRATE EL 50.79
INV EL 46.7 (15")S

ST–7
TYPE C INLET
GRATE EL 50.79
INV EL 46.4 (15")N
INV EL 46.2 (18")SE

ST–8
MES (4:1)
INV EL 46.0 (18")

ST–11
TYPE P–6 INLET
EOP EL 49.36
INV EL 43.3 (30")E
INV EL 43.8 (24")N
INV EL 44.5 (15")S
INV EL 43.3 (30")W

ST–12
TYPE P–6 INLET
EOP EL 48.53
INV EL 42.5 (30")E
INV EL 43.0 (18")W
INV EL 40.5 (36")SW

ST–13
MES (4:1)
INV EL 40.25 (36")

ST–15
EOC POND CS
TOP EL 49.50
INV EL 43.9 (24")S

ST–16
TYPE P–6 INLET
EOP EL 49.36
INV EL 44.7 (15")N

ST–17
TYPE P–5 INLET
EOP EL 48.26
INV EL 44.1 (18")E

ST–18
TYPE D INLET
GRATE EL 48.50
INV EL 42.7 (24")S

ST–19
TYPE D INLET
GRATE EL 48.50
INV EL 42.5 (24")N
INV EL 42.0 (30")SE

ST–20
MES (4:1)
INV EL 40.5 (30")

SANITARY STRUCTURES

S–1
4" C.O.
TOP EL 51.0
INV EL 47.3 (4")E

S–2
4' MH
RIM EL 51.60
INV EL 46.9 (4")W
INV EL 46.6 (8")E

S–3
4' MH
RIM EL 49.72
INV EL 45.55 (8")W
INV EL 45.45 (8")E

S–4
4' MH
RIM EL 49.95
INV EL 44.40 (8")W
INV EL 42.50 (8")E
INV EL 42.50 (8")S
INV EL 42.40 (8")N

S–5
4' MH
RIM EL 52.10
INV EL 41.59 (8")S
INV EL 41.92 (4")E
INV EL 41.49 (8")N

S–6
4' MH
RIM EL 52.0
INV EL 40.99 (8")S
INV EL 40.89 (8")E

S–7
4" CO
TOP EL 52.7
INV EL 45.1 (4")W

NORTH
SCALE: 1" = 30'

PASCO COUNTY UTILITIES DATA SHEET FOR SIZING WATER METERS
Customer: Seminole Electric Cooperative, Inc.
Type of Occupancy: Office
Property Identification No. 25-24-17-0000-00100-0010

Fixture	Fixture Value at 35 psi	x	No. of Fixtures	=	Fixture Value
Bathtub	8	x		=	
Bedpan washer	10	x		=	
Combination Sink & Tray	3	x		=	
Dental Unit	1	x		=	
Dental Lavatory	2	x		=	
Drinking Fountain - Cooler	1	x	2	=	2
Drinking Fountain - Public	2	x		=	
Kitchen Sink - 1/2" connection	3	x	2	=	6
- 3/4" connection	7	x		=	
Lavatory - 3/8" connection	2	x		=	
- 1/2" connection	4	x		=	
Laundry Tray - 1/2" connection	3	x		=	
- 3/4" connection	7	x		=	
Shower head (shower only)	4	x	1	=	4
Service Sink - 1/2" connection	3	x	1	=	3
- 3/4" connection	7	x		=	
Urinal - Pedestal Flush Valve	10	x		=	
- Wall Flush Valve	10	x	1	=	10
- Trough (2 ft. Unit)	2	x		=	
Wash Sink (each set of faucets)	4	x	7	=	28
Water Closet - Flush Valve	10	x	6	=	60
- Tank Type	3	x		=	
Dishwasher - 1/2" connection	5	x		=	
- 3/4" connection	10	x		=	
- 1" connection	25	x		=	
Washing Machine - 1/2" connection	5	x		=	
- 3/4" connection	10	x		=	
- 1" connection	25	x		=	
Hose connection - 1/2"	6	x		=	
- 3/4"	10	x		=	
Hose (50 ft.) - 1/2"	6	x		=	
- 3/4"	9	x		=	
- 1"	12	x		=	
Combined Fixture Value Total				=	133
Customer Peak demand from Curves				=	gpm
Enter Line Pressure and Pressure Factor					
Customer Peak demand from Curves X Pressure factor				=	gpm

Page 3 of 7 Pages

CALL 48 HOURS BEFORE YOU DIG
It's the Law!
1–800–432–4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PCU# 18–103.24

NO.	BY	DATE	DESCRIPTION
5			
4			
3			
2	MHS	2-6-2018	ADDRESSED INTNL UTILITY COMMENTS
1	MHS	2-27-2018	ADDRESSED PASCO COUNTY COMMENTS

DESIGNED BY: MICHAEL KNIGHT
DRAWN BY: MICHAEL KNIGHT
CHECKED BY: CHRIS WEDDLE
APPROVED BY: ---
DATE: 12-21-2017
JOB NO.: 17-172

UTILITY AND DRAINAGE PLAN

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY
SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

AUTOIRA ENGINEERING INC
CIVIL ENGINEERING
610 E. Morgan Street Brandon, FL 33510 (813)643-9907

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CHRISTOPHER E. WEDDLE, P.E.
No. 54647
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION No. 0000809

C–8

MATCHLINE SHEET C-8

SWALE, TYP.

10' LANDSCAPE BUFFER LINE

SECURITY FENCING, TYP. (SPECS BY OWNER)

BW FENCE

SETBACK LINE

MCC

ST-1

ST-2

AB-6

LIMITS OF CONSTRCTION

STANDARD PAVEMENT

"D" CURB, TYP.

ST-3

ST-5

STANDARD PAVEMENT

51

ST-4

POND

46

SECURITY FENCING, TYP. (SPECS BY OWNER)

FLOOD ZONE 'X'

5' SIDEWALK, TYP.

ENTRANCE SLIDING GATE (SPECS BY OWNER)

5' SIDEWALK, TYP.

20 LF 8" PVC @0.4% & PLUG

ST-10

ST-9

2" BLOW-OFF ASSEMBLY, TYP.

±20 LF ~ 4" C900 DR14 PVC WATER LINE
±20 LF ~ 8" C900 DR14 PVC FIRE LINE
HEAVY-DUTY PAVEMENT

"F" CURB, TYP.

20' CLEAR SIGHT TRIANGLE

57 LF 8" PVC @0.4%

±60 LF ~ 4" C900 DR14 PVC WATER LINE
±60 LF ~ 8" C900 DR14 PVC FIRE LINE
SLIDING GATES EACH SIDE (SPECS BY OWNER)

AB-2

AB-1

18+00 19+00 20+00 21+00 22+00 23+00

SAN OHE W F

400 LF 8" PVC @0.4%

ST-14

20 LF 8" PVC @0.4% & PLUG

2" BLOW-OFF ASSEMBLY, TYP.

LIMITS OF CONSTRCTION

SETBACK LINE

15' LANDSCAPE BUFFER LINE

PROPOSED 16' ROW DEDICATION TO PASCO COUNTY

PROPOSED 5' SIDEWALK

SECURITY FENCING, TYP. (SPECS BY OWNER)

FUTURE DEVELOPMENT

END SIDEWALK, PHASE 1

SECURITY FENCING, TYP. (SPECS BY OWNER)

15' LANDSCAPE BUFFER LINE

PROPOSED 16' ROW DEDICATION TO PASCO COUNTY

NORTH

SCALE: 1" = 30'

UP

SCIR

TBM FIR 1/2" NO. 6113 ELEV=55.78'

S89°46'41"E 120.00'(M)

FCM

MOOREHEAD ENG. CO. EAST 1/4

LESS AND EXCEPT 20'

IN USE AS RIGHT OF WAY

SOFTWIND LANE

SWALE

DCIR

ST-22

21"x30" RCP CULVERT HEAD WALL (TYPICAL)

TBM CONCRETE MONUMENT V 763 ELEV=52.19'

LIMEROCK DRIVEWAY

ST-21

S00°04'48"W 975.43'(M)

SOFTWIND LANE
24' ASPHALT PAVEMENT
RIGHT OF WAY VARIES

SOUTHEAST 1/4

SANITARY STRUCTURES

S-8
MH
RIM EL 50.43
INV EL 44.53 (8")N
INV EL 44.43 (8")S

S-9
MH
RIM EL 52.05
INV EL 44.20 (8")N
INV EL 44.20 (8")S
INV EL 44.10 (8")W

STORM STRUCTURES

ST-1
TYPE C INLET
GRATE EL 50.25
INV EL 47.1 (18")S

ST-2
TYPE C INLET
GRATE EL 51.15
INV EL 46.9 (18")N
INV EL 46.9 (18")S

ST-3
TYPE C INLET
GRATE EL 51.15
INV EL 46.6 (18")N
INV EL 46.9 (15")E
INV EL 46.1 (24")SW

ST-4
MES (4:1)
INV EL 46.0 (24")

ST-5
TYPE C INLET
GRATE EL 51.30
INV EL 46.9 (15")W

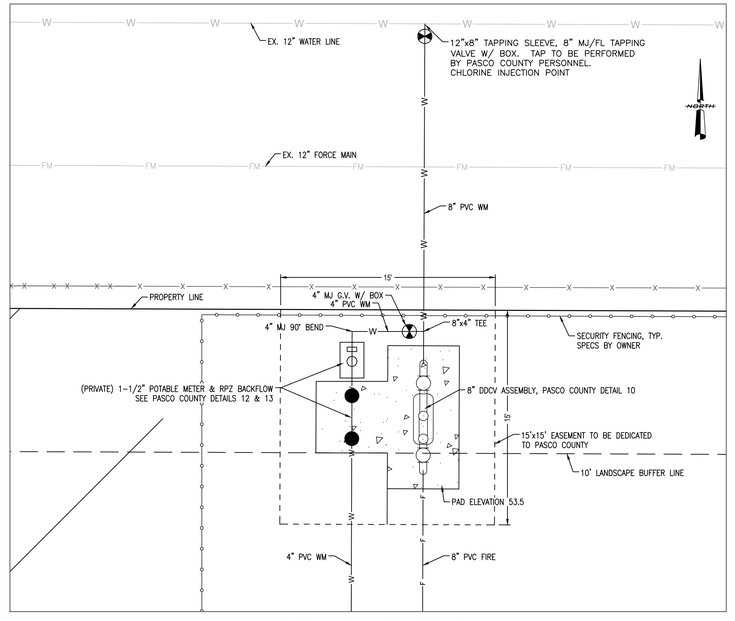
ST-9
TYPE D INLET
GRATE EL 52.00
INV EL 46.1 (24")S

ST-10
TYPE P-6 INLET
EOP EL 51.31
INV EL 45.8 (24")N
INV EL 46.5 (15")S
INV EL 45.3 (30")W

ST-14
TYPE P-6 INLET
EOP EL 51.31
INV EL 46.7 (15")N

ST-21
MES (4:1)
INV EL 48.6 (36")

ST-22
MES (4:1)
INV EL 48.4 (36")



WATER SERVICES DETAIL

1"=5'

PROPOSED LEGEND

- STORM PIPE
- SANITARY LINE
- WATER MAIN
- FIRE LINE
- POWER LINE
- SETBACK LINE
- PROJECT LIMITS
- EROSION CONTROL
- STORM INLET
- MITERED END SECTION
- CURB INLET (TYPE P-6)
- CLEANOUT
- SANITARY MANHOLE

CALL 48 HOURS BEFORE YOU DIG
It's the Law!
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NO.	BY	DATE	DESCRIPTION
1	MRE	2-27-2018	ADDRESS PASCO COUNTY COMMENTS
2	MRE	2-5-2018	ADDRESS INITIAL UTILITY COMMENTS
3	-	-	-
4	-	-	-
5	-	-	-

DESIGN BY: MICHAEL KNIGHT
DRAWN BY: MICHAEL KNIGHT
CHECKED BY: CHRIS WEDDLE
APPROVED BY: ---
DATE: 12-21-2017
JOB NO. 17-172

UTILITY PLAN

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY

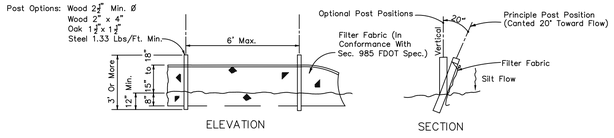
SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

AURORA CIVIL ENGINEERING, INC
810 E. Morgan Street Brandon, FL 33510 (813)643-9907

This item has been electronically signed and sealed by CHRISTOPHER F. NEUSSLE, PE on 2/27/2018 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

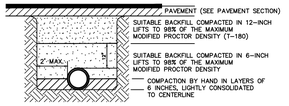
CHRISTOPHER F. NEUSSLE, P.E.
FLORIDA REGISTRATION No. 0065809
CERTIFICATE OF AUTHORIZATION No. 29004809

C-9



TYPE III SILT FENCE

FDOT INDEX No. 102



NOTES:

1. TYPE 2 TRENCH IS DEFINED AS A FLAT-BOTTOM TRENCH. BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE.
2. THIS STANDARD SHALL BE UTILIZED IN THE ABSENCE OF SPECIFIC STANDARDS.
3. SUITABLE BACKFILL SHALL BE DEFINED AS MATERIAL FREE FROM CINDERS, ASHES, REFUSE, ORGANIC MATTER, BOULDERS, ROCKS OR STONES, OR OTHER MATERIAL THAT IN THE OPINION OF THE ENGINEER IS UNSUITABLE.

TYPICAL TRENCHING, BEDDING AND BACKFILL DETAIL FOR PAVED AREAS

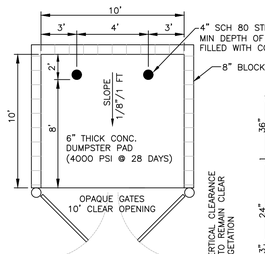
N.T.S.

NOTES:

1. TYPE 2 TRENCH IS DEFINED AS A FLAT-BOTTOM TRENCH. BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE.
2. THIS STANDARD SHALL BE UTILIZED IN THE ABSENCE OF SPECIFIC STANDARDS.
3. SUITABLE BACKFILL SHALL BE DEFINED AS MATERIAL FREE FROM CINDERS, ASHES, REFUSE, ORGANIC MATTER, BOULDERS, ROCKS OR STONES, OR OTHER MATERIAL THAT IN THE OPINION OF THE ENGINEER IS UNSUITABLE.

TYPICAL TRENCHING, BEDDING AND BACKFILL DETAIL FOR NON-PAVED AREAS

N.T.S.



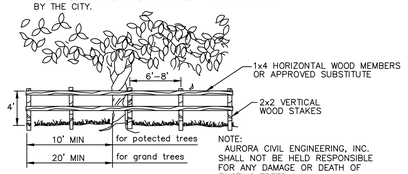
DUMPSTER ENCLOSURE DETAILS

NOTES:

1. ALL MATERIALS USED FOR DUMPSTER ENCLOSURES SHALL BE APPROVED BY THE CITY OF TAMPA.
2. THE SITE SHALL COMPLY WITH CHAPTER 26 – SOLID WASTE.
3. THE DUMPSTER ENCLOSURE SHALL BE A MINIMUM OF 6' IN HEIGHT AND CONSTRUCTED WITH MATERIALS COMPATIBLE WITH THE WALLS OF THE MAIN BUILDING. THE MINIMUM INTERIOR DIMENSIONS SHALL BE 10'x10' WITH A MINIMUM 10' WIDE OPENING CLEAR FROM ANY OBSTRUCTIONS, INCLUDING GATE HARDWARE.
4. GATES SHALL BE CONSTRUCTED OF SOLID/OPAQUE MATERIALS, AND HAVE LOCKING PINS TO HOLD OPEN DURING SERVICE.
5. CONCRETE SLAB AND WALL REINFORCEMENT TO BE DESIGNED BY A STRUCTURAL ENGINEER. SEE ARCHITECTURAL PLANS.
6. ANY EXISTING OVERHEAD LINES SHALL BE RAISED, IF REQUIRED, TO PROVIDE A MINIMUM OF 21' VERTICAL CLEARANCE ABOVE THE DUMPSTER AND SERVICE VEHICLE.

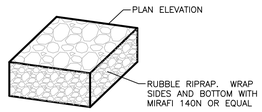
DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIP LINE OF A TREE TO BE REMAINED ON SITE UNLESS OTHERWISE APPROVED BY THE CITY.

ALL BARRIERS SHALL BE INSPECTED AND APPROVED BY THE CITY OF TAMPA PRIOR TO ANY CLEARING ACTIVITY AND SHALL REMAIN IN PLACE UNTIL LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETE.



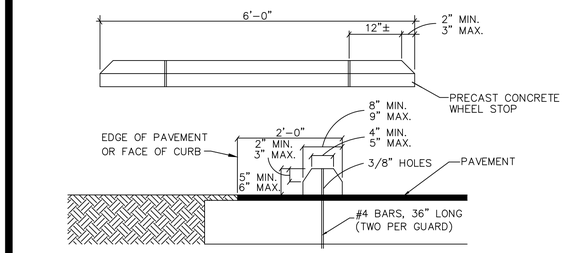
TREE BARRICADE DETAIL

NOT TO SCALE



TYPICAL RIPRAP DETAIL

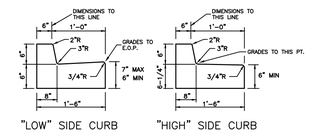
NTS



NOTE: WHEEL STOPS TO BE PROVIDED WHERE SHOWN ON THE PLANS.

CONCRETE WHEEL STOP DETAIL

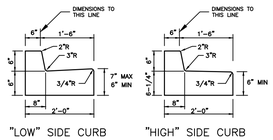
N.T.S



MODIFIED TYPE 'F' CURB

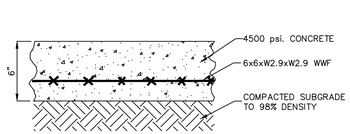
N.T.S.

NOTE: ALL ON-SITE PAVEMENT TO HAVE ADJACENT CURBING UNLESS NOTED OTHERWISE. ALTERNATE CURBING MAY BE USED AT THE OWNERS DISCRETION. DIMENSIONS AND RADII ON THE PLANS ARE TO THE CURB FACE AS SHOWN ABOVE.

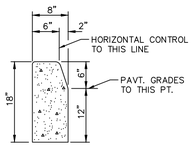


TYPE 'F' CURB

N.T.S.

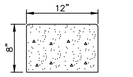


TYPICAL 6" CONCRETE PAVEMENT



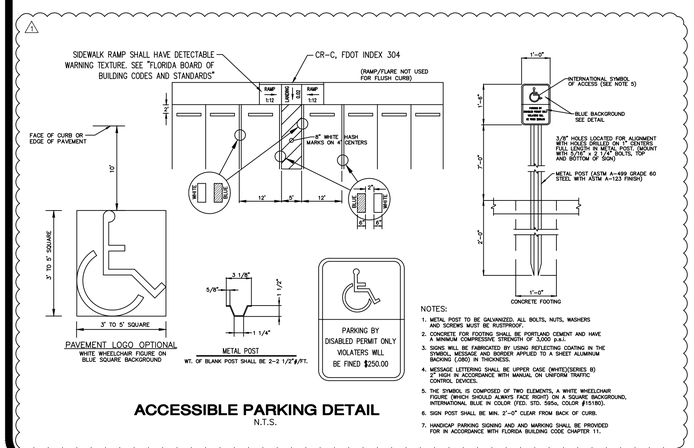
TYPE "D" CURB

F.D.O.T. INDEX #300



RIBBON CURB

F.D.O.T. INDEX #300

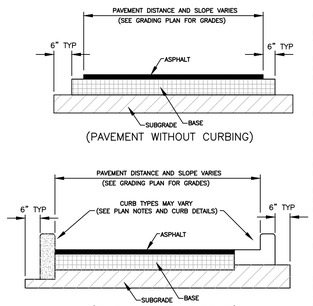


ACCESSIBLE PARKING DETAIL

N.T.S.

NOTES:

1. METAL POST TO BE GALVANIZED, ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE RUSTPROOF.
2. CONCRETE FOR FOOTING SHALL BE PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 p.s.i.
3. SIGNS WILL BE FABRICATED BY USING REFLECTIVE COATING IN THE SYMBOL, MESSAGE AND BORDER APPLIED TO A SHEET ALUMINUM BACKING (.080) IN THICKNESS.
4. MESSAGE LETTERING SHALL BE UPPER CASE (WHITE)(SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
5. THE SYMBOL IS COMPOSED OF TWO ELEMENTS: A WHITE WHEELCHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (TED. STD. 595a, COLOR #15180).
6. SIGN POST SHALL BE MIN. 2'-0" CLEAR FROM BACK OF CURB.
7. HANDICAP PARKING SIGNING AND AND MARKING SHALL BE PROVIDED FOR IN ACCORDANCE WITH FLORIDA BUILDING CODE CHAPTER 11.



PARKING AND LIGHT USE AREAS
ASPHALT: 1-1/2" FDOT TYPE S-1 OR S-3 ASPHALTIC CONCRETE. MINIMUM MARSHALL STABILITY OF 1500 LBS. COMPACTED TO AT LEAST 95% OF ITS LABORATORY DENSITY.

BASE: 6" CRUSHED CONCRETE BASE, MIN LBR 100, COMPACTED TO AT LEAST 98% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).

SUBGRADE: 12" STABILIZED SUBGRADE, LBR 40 MINIMUM, COMPACTED TO AT LEAST 98% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).

TRUCK AND HEAVY USE AREAS
ASPHALT: 2" FDOT TYPE S-1 OR S-3 ASPHALTIC CONCRETE. MINIMUM MARSHALL STABILITY OF 1500 LBS. COMPACTED TO AT LEAST 95% OF ITS LABORATORY DENSITY.

BASE: 8" CRUSHED CONCRETE BASE, MIN LBR 100, COMPACTED TO AT LEAST 98% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).

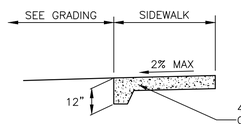
SUBGRADE: 12" STABILIZED SUBGRADE, LBR 40 MINIMUM, COMPACTED TO AT LEAST 98% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).

NOTE:
FINAL PAVEMENT SECTIONS AND CURBING SELECTED BY OWNER/CONTRACTOR. SECTIONS TO BE VERIFIED BY OWNERS GEOTECHNICAL ENGINEER.

TYPICAL PAVEMENT SECTIONS

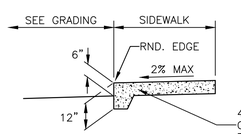
N.T.S.

(REFER ALSO TO GEOTECHNICAL REPORT)



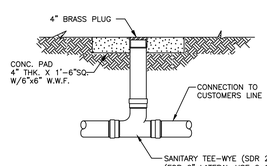
SIDEWALK SECTION – FLUSH

NTS



SIDEWALK SECTION – 6" CURB

NTS



TYPICAL ON-SITE CLEAN-OUT DETAIL

NO.	BY	DATE	DESCRIPTION
1	TCG	2-27-2018	ADDRESSES, PASCO COUNTY COMMENTS

DESIGNED BY: MICHAEL KNIGHT
DRAWN BY: MICHAEL KNIGHT
CHECKED BY: CHRIS WEDDLE
APPROVED BY: ---
DATE: 12-21-2017
JOB NO. 17-172

MISCELLANUOUS DETAILS

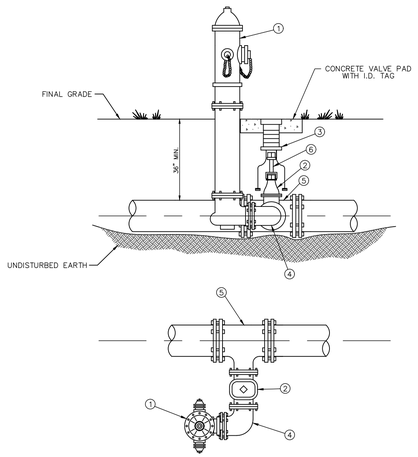
SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY
SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

AURORA
CIVIL ENGINEERING, INC
610 E. Morgan Street Brandon, FL 33510 (813)643-9907

This item has been electronically signed and sealed by CHRISTOPHER F. REISDORF, P.E. on 2/27/2018 using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CHRISTOPHER F. REISDORF, P.E.
FLORIDA REGISTRATION NO. 70043909
CERTIFICATE OF AUTHORIZATION NO. 30009

C-10



MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	HYDRANT, FIRE (5 1/4" VALVE MIN.), PAINTED YELLOW
2	1	6" VALVE, GATE, MJ RESILIENT WEDGE
3	1	BOX, VALVE SLIP TYPE
4	1	6" BEND, ANCHORING, D.I.
5	1	TEE, ANCHORING, MJ
6	×	VALVE EXTENSION ROD, AS NECESSARY (3' MAX. BELOW GRADE)

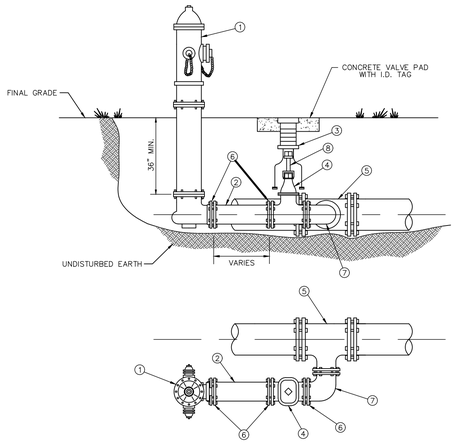
CREATED 02/24/03
REVISED

FIRE HYDRANT
PARALLEL TO THE MAIN

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL 22



MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	HYDRANT, FIRE (5 1/4" VALVE MIN.), PAINTED YELLOW
2	×	6" PIPE, P.V.C. (DR-18)
3	1	BOX, VALVE SLIP TYPE
4	1	6" VALVE, GATE, M.J. RESILIENT WEDGE
5	1	TEE, ANCHORING, M.J.
6	×	6" RESTRAINER GLAND (MEGALUG)
7	1	BEND, ANCHORING, D.I.
8	×	VALVE EXTENSION ROD, AS NECESSARY (3' MAX. BELOW GRADE)

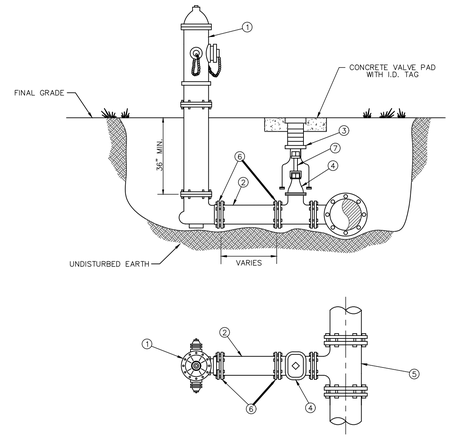
CREATED 02/24/03
REVISED

FIRE HYDRANT
PARALLEL TO THE MAIN

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL 23



MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	HYDRANT, FIRE (5 1/4" VALVE MIN.), PAINTED YELLOW
2	×	6" PIPE, P.V.C. (DR-18)
3	1	BOX, VALVE SLIP TYPE
4	1	6" VALVE, GATE, M.J. RESILIENT WEDGE
5	1	TEE, ANCHORING, M.J.
6	×	6" RESTRAINER GLAND (MEGALUG)
7	×	VALVE EXTENSION ROD, AS NECESSARY (3' MAX. BELOW GRADE)

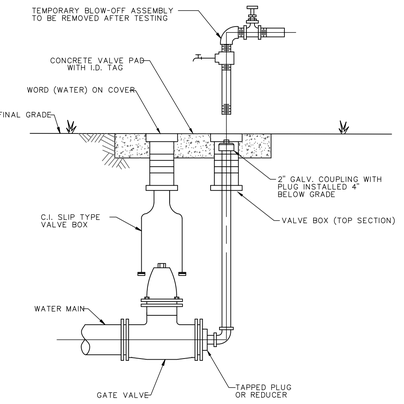
CREATED 02/24/03
REVISED

FIRE HYDRANT
PERPENDICULAR TO THE MAIN

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL 24



NOTES:
- MECHANICAL JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED IN JOINT RESTRAINT TABLE (DETAIL 46)
- VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NUT IS A MAXIMUM OF 3' BELOW GRADE.

CREATED 02/24/03
REVISED

PERMANENT
BLOW-OFF DETAIL

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL 28

PIPE RESTRAINT LENGTHS IN FEET
COMMON FITTINGS

WATER MAINS - TEST PRESSURE 150 PSI						
		FITTING TYPE				
		11-1/4°	22-1/2°	45°	90°	DEAD END
PIPE SIZE	4"	2'	4'	8'	20'	45'
	6"	3'	6'	12'	28'	63'
	8"	4'	7'	15'	36'	82'
	10"	4'	9'	18'	43'	98'
	12"	5'	10'	21'	50'	116'
	16"	6'	13'	26'	63'	148'
	20"	7'	15'	31'	76'	179'
	24"	9'	17'	36'	87'	208'

FORCE MAINS - TEST PRESSURE 100 PSI						
		FITTING TYPE				
		11-1/4°	22-1/2°	45°	90°	DEAD END
PIPE SIZE	4"	1'	3'	6'	13'	30'
	6"	2'	4'	8'	19'	42'
	8"	2'	5'	10'	24'	55'
	10"	3'	6'	12'	29'	66'
	12"	3'	7'	14'	34'	77'
	16"	4'	8'	18'	42'	99'
	20"	5'	10'	21'	50'	119'
	24"	6'	11'	24'	58'	139'

RESTRAINT LENGTHS ARE MEASURED FROM THE CENTER LINE OF THE FITTING ALONG THE PIPE IN BOTH DIRECTIONS (EXCEPT DEAD ENDS).

CREATED 02/24/03
REVISED

RESTRAINED JOINT TABLE
COMMON FITTINGS

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL 28

PIPE RESTRAINT LENGTHS IN FEET
TEES (BRANCH SIDE)

WATER MAINS - TEST PRESSURE 150 PSI									
		BRANCH SIZE							
		3"	4"	6"	8"	10"	12"	16"	20"	24"
RUN SIZE	3"	6'	14'	30'	—	—	—	—	—	—
	4"	2'	11'	28'	44'	—	—	—	—	—
	6"	1'	2'	22'	40'	52'	—	—	—	—
	8"	1'	1'	16'	35'	48'	62'	—	—	—
	10"	1'	1'	10'	30'	44'	58'	83'	—	—
	12"	1'	1'	3'	25'	40'	55'	80'	103'	—
	16"	1'	1'	1'	14'	31'	48'	75'	98'	119'
	20"	1'	1'	1'	2'	22'	40'	69'	94'	116'
	24"	1'	1'	1'	1'	11'	31'	63'	89'	111'

RESTRAINT LENGTHS ARE MEASURED FROM THE CENTER LINE OF THE TEE ALONG THE BRANCH FOR THE DISTANCE INDICATED. A MINIMUM OF 5 FEET OF RESTRAINED PIPE MUST BE INSTALLED ON BOTH RUNS OF THE TEE. MEGALUG TYPE RESTRAINERS ARE REQUIRED ON ALL JOINTS.

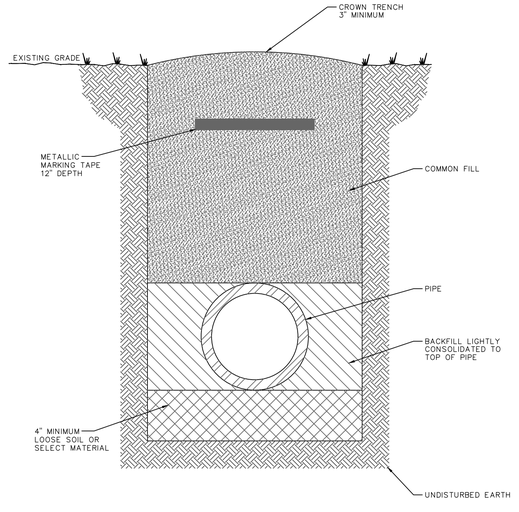
CREATED 02/24/03
REVISED

RESTRAINED JOINT TABLE
TEES (BRANCH SIDE)

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL 29



NOTES: -LOOSE SOIL OR SELECT MATERIAL IS NATIVE SOIL EXCAVATED FROM THE TRENCH FREE OF ROCKS AND FOREIGN MATERIAL.
-COMMON FILL TO BE PLACED AND COMPACTED IN 12" LAYERS. ROLLING EQUIPMENT SHALL NOT BE USED FOR COMPACTION UNTIL A MINIMUM OF 18" OF COMMON FILL HAS BEEN PLACED AND COMPACTED OVER THE PIPE. THREE FEET OF FILL SHALL BE PLACED BEFORE A HYDROHAMMER MAY BE USED FOR COMPACTION.

NTS

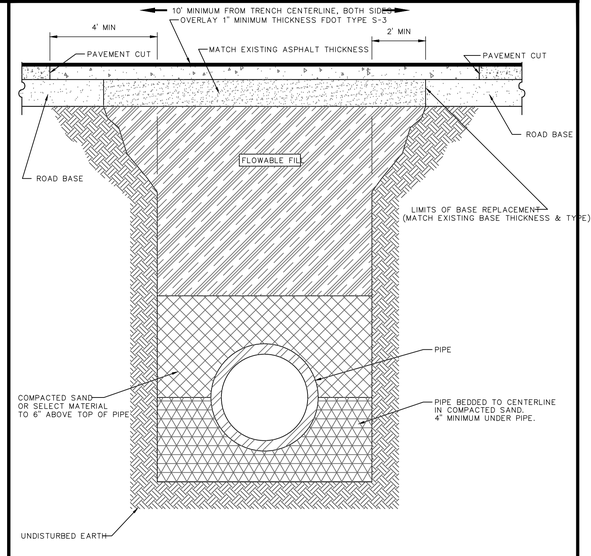
CREATED 02/24/03
REVISED

PIPE LAYING CONDITIONS
STANDARD UNPAVED AREAS

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL 32



NOTE: -SELECT MATERIAL IS NATIVE SOIL EXCAVATED FROM THE TRENCH FREE OF ROCKS AND FOREIGN MATERIAL.
-COMPACTION TO TOP OF PILE IS TO BE APPROXIMATELY 90% STANDARD PROCTOR, AASHTO T-99.
-EXISTING CONCRETE/ASPHALT PAVEMENT SURFACE AND BASE TO BE CUT SQUARE WITH CONCRETE SAW.

NTS

CREATED 03/06/03
REVISED

PIPE LAYING CONDITIONS
FLOWABLE FILL BACKFILL
STANDARD EXISTING PAVED AREAS & ROADWAYS

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL 33

REVISIONS					
NO.	BY	DATE	DRAWN BY: MICHAEL KNIGHT	DATE: 12-21-17	
1	MHK	2/9/2018	ADDRESS, INTAL, UTILITY COMMONS		
2			DESCRIPTION		
3			DESIGNED BY: MICHAEL KNIGHT	APPROVED BY: CHRIS WEDDLE	JOB NO. 17-172
4			CHECKED BY: CHRIS WEDDLE		
5					

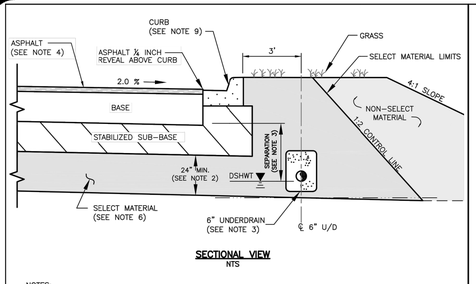
PASCO COUNTY DETAILS

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY
SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

AURORA
CIVIL ENGINEERING, INC
810 E. Morgan Street Brandon, FL 33510 (813)643-9907

This item has been electronically signed and sealed by Christopher E. Reddin, PE on 2/27/2018 using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CHRISTOPHER E. REDDIN, P.E.
FLORIDA REGISTRATION No. 0065809
CERTIFICATE OF AUTHORIZATION No. 0006809



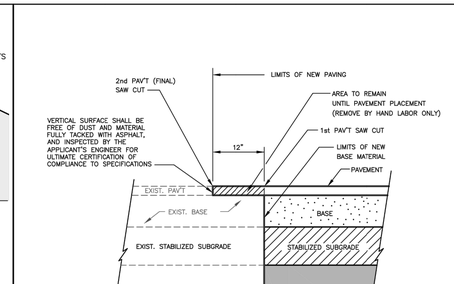
SECTIONAL VIEW
NTS

NOTES:

1. THE MINIMUM VERTICAL SEPARATION BETWEEN THE DESIGN SEASONAL HIGH WATER TABLE (DSHWT) AND THE BOTTOM OF THE BASE AT THE LOWEST EDGE OF PAVEMENT SHALL BE AS FOLLOWS:
   A. LIMEROCK BASE 24 INCH
   B. SOIL CEMENT BASE 12 INCH
   C. CRUSHED CONCRETE BASE (IF APPROVED) 12 INCH
   D. ASPHALT BASE COURSE (ABC) 12 INCH
2. A MINIMUM TWO (2) FEET OF SELECT MATERIAL CONSISTING OF A–1, A–3 OR A–2–4 WITH A MAXIMUM 15% PASSING THE #200 SIEVE BELOW THE STABILIZED SUB–BASE.
3. IF THE VERTICAL SEPARATION BETWEEN DSHWT AND BOTTOM OF BASE IS LESS THAN 2 FEET, UNDERDRAINS SHALL BE CONSTRUCTED ALONG BOTH SIDES OF THE ROAD. IF 2–3 FEET, UNDERDRAINS SHALL BE CONSTRUCTED ALONG ONE SIDE. THE INVERT OF A SIX (6) INCH UNDERDRAIN SHALL BE TWO (2) FEET MINIMUM BELOW THE BOTTOM OF THE BASE.
4. TYPE 2 THRU TYPE 5 ROADWAYS SHALL CONTAIN A MINIMUM OF 1.5 INCH OF SP ASPHALTIC CONCRETE. COLLECTOR ROADWAYS SHALL HAVE A MINIMUM OF THREE (3) INCHES OF SP ASPHALTIC CONCRETE. TYPE 1 ROADWAYS MAY BE COMPLETED IN STAGES, INITIALLY 2.25 INCHES OF SP 12.5 (S–1) ASPHALT COURSE WITH REQUIRED PAVEMENT MARKINGS AND 0.75 INCHES OF SP 9.5 (S–3) COURSE INSTALLED WITH ANY THERMOPLASTIC STRIPES, PRIOR TO RELEASE OF THE ASSURANCE FOR MAINTENANCE.
5. THE ROAD DESIGN DRAWINGS SHALL CONTAIN SOIL BORING LOCATIONS WITH EXISTING SOIL DATA, OBSERVED WATER LEVEL AND DSHWT SURFACE. UNDERDRAIN OUTFALL POND DATA AND PROXIMATE WETLAND HYDRO PERIOD ELEVATIONS SHALL ALSO BE IDENTIFIED.
6. SELECT MATERIAL SHALL BE PLACED PER FDOT INDEX DRAWINGS 500 & 505.
7. THE REQUIRED MINIMUM STRUCTURAL NUMBER (SN) SHALL BE:
   2.34 MIN. TYPE 2 ROADWAY
   3.50 MIN. TYPE 1 ROADWAYS
   3.70 MIN. COUNTY COLLECTOR
   4.00 MIN. COUNTY ARTERIAL
8. SOIL CEMENT BASE SHALL NOT BE CONSTRUCTED OVER STABILIZED SUBGRADE EXCEEDING LBR 20. THE COUNTY ASSIGNED LAYER COEFFICIENT FOR A MAXIMUM 12 INCH DEPTH, LBR 20 SHALL BE 0.04 PER INCH.
9. CURB DESIGN IS SITE SPECIFIC AND SHALL BE IDENTIFIED ON PLANS.

NOTE:
NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER.
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES	ROADWAY DESIGN CRITERIA	Sheet No. 1 of 1
DESIGN STANDARDS	APPROVED BY JCW / BCC APPROVAL / REVISED	Index No. 100



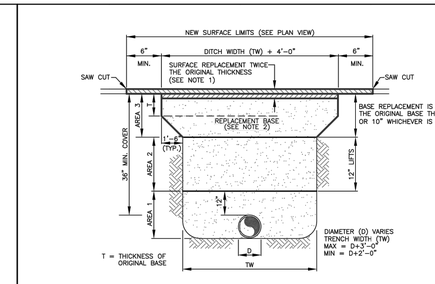
SECTIONAL VIEW
NTS

NOTES:

1. THE DEVELOPER'S ENGINEER SHALL INVESTIGATE THE EXISTING PAVEMENT LAYER TYPES AND DEPTHS BY RESEARCHING "RECORD/AS–BUILT DRAWINGS" AND/OR PERFORM GEOTECHNICAL BORINGS.
2. THE NEW PAVEMENT SHALL PROVIDE THE MINIMUM STRUCTURAL NUMBER AS FOLLOWS: TYPE 2 – 2.34, TYPE 1 – 3.50, COLLECTOR 3.70, ARTERIAL 4.00.

NOTE:
NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER.
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES	PAVEMENT TIE-IN SAW CUT DETAIL	Sheet No. 1 of 1
DESIGN STANDARDS	APPROVED BY JCW / BCC APPROVAL / REVISED	Index No. 101



NOTES

1. REPLACEMENT ASPHALT SHALL BE TWICE THE ORIGINAL PAVEMENT THICKNESS WITH A MINIMUM OF TWO (2) INCHES AND SHALL BE SP 12.5 OR TYPE S–3 ASPHALT, AND FC–3 IF REQUIRED.
2. REPLACEMENT BASE SHALL BE NEW MATERIAL NOT REUSED FROM EXCAVATION. ACCEPTABLE BASE ALTERNATIVE SHALL BE TYPE ABC OR BETTER ASPHALT PLACED AT A TOTAL THICKNESS OF SIX (6) INCHES.
3. AREA 1 – BACKFILL SHALL BE PLACED IN SIX (6) INCH LIFT WITH EACH LIFT COMPACTED TO **98% OF ASTM FM5–521** USING MECHANICAL TAMPERS.
4. AREA 2 – BACKFILL SHALL BE PLACED IN TWELVE (12) INCH LIFTS WITH EACH LIFT COMPACTED TO **98% OF FM5–521** USING APPROPRIATE COMPACTING EQUIPMENT.
5. AREA 3 – LIMEROCK (LBR 100) BASE SHALL BE CONSTRUCTED IN LIFTS NOT GREATER THAN SIX (6) INCHES COMPACTED THICKNESS, AND HAVE A DENSITY EQUAL TO **98% OF FM5–521.**
6. FLOWABLE FILL MAY BE PLACED ABOVE AREA 1 UP TO THE BOTTOM OF THE RESTORED BASE. MIX DESIGN SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS SECTION 121. IF FLOWABLE FILL IS USED FOR TRENCH BACKFILL, THE AMOUNT OF COVER ABOVE TOP OF PIPE TO AREA 2 MAY BE REDUCED TO 6 INCHES.

Tests shall be submitted to Pasco County Engineering Inspections verifying open cut restoration is per general notes before release of permit or gurantee, if applicable. Material and thickness verification shall be required. All testing shall be Pasco County Services Department Testing Specifications for Construction of Roads, Storm Drainage and Utilities; October 2006.

NOTE:
NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER.
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES	OPEN CUT RESTORATION	Sheet No. 1 of 1
DESIGN STANDARDS	APPROVED BY JCW / BCC APPROVAL / REVISED	Index No. 102

PASCO COUNTY CRUSHED CONCRETE BASE SPECIFICATIONS

THE WORK SPECIFIED UNDER THIS SECTION CONSISTS OF THE CONSTRUCTION OF ROADWAY BASE UTILIZING CRUSHED CONCRETE (RECLAIMED CONCRETE AGGREGATE BASE MATERIAL) ON A PREPARED STABILIZED SUBGRADE OF LBR 40 WITH A DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY AS DETERMINED BY FM 1-T 180. METHOD D, IN CONFORMITY WITH THE LINES, GRADES NOTES AND TYPICAL CROSS SECTIONS SHOWN IN THE PLANS, AND AS DIRECTED BY THE COUNTY ENGINEER.

THE CONSTRUCTION OF CRUSHED CONCRETE BASE SHALL CONFORM TO THE REQUIREMENTS OF THIS SECTION, OR, IN LIEU THEREOF, SUCH REQUIREMENTS AS MAY BE ESTABLISHED BY THE COUNTY ENGINEER DURING CONSTRUCTION. THE COUNTY ENGINEER SHALL HAVE FULL AUTHORITY TO MODIFY THE PROVISIONS OF THIS SECTION AS DEEMED NECESSARY, IN HIS OPINION, TO MEET FIELD CONDITIONS AND REQUIREMENTS.

MATERIALS

CRUSHED CONCRETE MUST BE PRODUCED FROM A SOURCE APPROVED BY FLORIDA DEPARTMENT OF TRANSPORTATION OR THE COUNTY ENGINEER. THE SUPPLIER SHALL HAVE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) PERMIT REQUIREMENTS SECTION 62-701.730 OR BE QUALIFIED AS A CLEAN DEBRIS SOURCE UNDER DEP RULES. THE RECLAIMED CONCRETE AGGREGATE BASE SHALL CONSIST OF CRUSHED CONCRETE MATERIAL DERIVED FROM THE CRUSHING OF HARD PORTLAND CEMENT CONCRETE.

COMPOSITION

BASE MATERIAL SHALL CONFORM TO THE FOLLOWING **GRADATION REQUIREMENTS**:

SIEVE SIZE	PERCENT BY WEIGHT PASSING
2 INCH	100
1/4 INCH	65 to 95
3/8 INCH	40 to 85
No. 4	25 to 65
No. 10	20 to 50
No. 50	5 to 25
No. 200	0 to 10

BASE MATERIAL SHALL CONFORM TO THE FOLLOWING **PLASTICITY REQUIREMENTS**:

CRUSHED CONCRETE BASE SHALL NOT CONTAIN PLASTIC SOILS SUCH THAT THE No. 40 SIEVE MATERIAL SHALL BE NON-PLASTIC.

LIQUID LIMIT (AS DETERMINED BY AASHTO T80) (LESS THAN 25) PER MATERIAL TYPE

THE FINISHED IN-PLACE CRUSHED CONCRETE BASE **LIMEROCK BEARING RATIO** SHALL HAVE A MINIMUM (LBR) OF 150.

CRUSHED CONCRETE BASE SHALL BE FREE OF ALL MATERIALS THAT FALL UNDER THE CATEGORY OF SOLID WASTE OR HAZARD MATERIALS AS DEFINED BY THE STATE OR LOCAL JURISDICTION AND SHALL MEET ALL DEP PERMIT REQUIREMENTS WHICH PERTAIN TO CONSTRUCTION, DEMOLITION AND RECYCLING OF THESE MATERIALS. CRUSHED CONCRETE BASE SHALL BE ASBESTOS FREE. THE FOLLOWING LIMITS SHALL NOT BE EXCEEDED:

- BITUMINOUS CONCRETE.....1% BY WEIGHT
- BRICKS.....1% BY WEIGHT
- WOOD AND OTHER ORGANIC SUBSTANCES.....0.5% BY WEIGHT
- HEAVY METALS (EXCEPT LEAD).....0.1% BY WEIGHT
- LEAD.....5 PARTS PER MILLION
- REINFORCED STEEL AND WELDED WIRE FABRIC.....0.1% BY WEIGHT
- PLASTER AND GYPSUM BOARD.....0.1% BY WEIGHT

THE MATERIAL FOR CRUSHED CONCRETE BASE SHALL CONSIST ONLY OF CRUSHED CONCRETE PAVEMENT AND SUCH ADDITIVE MATERIAL AS MAY BE APPROVED BY THE COUNTY ENGINEER FOR THE PURPOSE OF FACILITATING CONSTRUCTION AND ACHIEVING THE DESIRED CHARACTERISTICS OF THE FINISHED IN-PLACED PRODUCT. APPROVAL FROM THE COUNTY ENGINEER IS REQUIRED BEFORE PLACING MATERIAL FROM MORE THAN ONE SOURCE. ONCE APPROVED, A CHANGE IN THE SOURCE OF BASE MATERIAL SHALL REQUIRE ADDITIONAL ACCEPTANCE TESTING. THE MATERIAL SHALL NOT CONTAIN LUMPS, BALLS OR POCKETS OF SAND OR CLAY MATERIAL IN SIZE OR QUANTITY SUFFICIENT TO BE DETRIMENTAL TO THE PROPER BONDING, FINISHING, STRENGTH OF THE CONCRETE BASE. EXISTING BASE IS TO BE REMOVED TO CONSTRUCT THE NEW BASE.

INSPECTION

SUBGRADE AND BASE INSPECTIONS SHALL BE CONDUCTED BY THE ENGINEER OF RECORD AND THE COUNTY INSPECTOR PRIOR TO SURFACE COURSE CONSTRUCTION.

NOTE:
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ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES	CRUSHED - CONCRETE BASE SPECIFICATIONS	Sheet No. 1 of 2
DESIGN STANDARDS	APPROVED BY JCW / BCC APPROVAL / REVISED	Index No. 104

EQUIPMENT, PLACEMENT AND SPREADING OF MATERIAL

USE MECHANICAL ROCK SPREADERS, EQUIPPED WITH A DEVICE THAT STRIKES OFF THE ROCK UNIFORMLY TO LAYING THICKNESS AND CAPABLE OF PRODUCING EVEN DISTRIBUTION. FOR ROADWAY WIDTHS OF 20 FEET OR LESS, CROSSOVERS, INTERSECTIONS, RAMP AREAS OR WHERE THE USE OF A MECHANICAL SPREADER IS NOT PRACTICABLE; THE CONTRACTOR MAY SPREAD THE CRUSHED CONCRETE BASE USING BULLDOZERS OR BLADE GRADERS.

TRANSPORT CRUSHED CONCRETE TO THE POINT OF USE, OVER THE BASE PREVIOUSLY PLACED, AND DUMP IT ON THE END OF THE PRECEDING SPREAD. HAULING ON SUBGRADE TO DUMP CRUSHED CONCRETE BASE WILL BE PERMITTED ONLY WHEN, IN THE ENGINEER'S OPINION, THESE OPERATIONS WILL NOT BE DETRIMENTAL TO THE BASE AND SUBGRADE.

CRUSHED CONCRETE SHALL BE SPREAD UNIFORMLY WITHOUT SEGREGATION OF FINE OR COURSE MATERIALS. SEGREGATED AREAS SHALL BE REPLACED WITH PROPERLY GRADED CRUSHED CONCRETE AFTER REMOVAL.

THE MINIMUM THICKNESS OF THE CRUSHED CONCRETE BASE SHALL BE INDICATED ON THE PLANS. WHEN THE SPECIFIED COMPACTED THICKNESS OF THE CRUSHED CONCRETE BASE IS **GREATER THAN SIX INCHES, CONSTRUCT THE BASE IN MULTIPLE COURSES OF EQUAL THICKNESS. INDIVIDUAL COURSES SHALL NOT BE LESS THAN THREE INCHES.** PLACE CRUSHED CONCRETE MATERIAL TO ENSURE THE TOTAL THICKNESS SINGLE SOURCE INTEGRITY AT ANY STATION LOCATION OF THE BASE.

COMPACTING, FINISHING AND TESTING REQUIREMENTS

AFTER SPREADING IS COMPLETED THE CRUSHED CONCRETE SHALL BE UNIFORMLY COMPACTED, WITH WATER BEING ADDED AS REQUIRED TO A **DENSITY OF NOT LESS THAN ONE HUNDRED PERCENT (100%) OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.** DURING FINAL COMPACTION OPERATIONS, IF THE BLADING OF ANY AREAS IS NECESSARY TO OBTAIN THE TRUE GRADE AND CROSS SECTION, FREE OF SCABS AND LAMINATIONS, THE COMPACTING OPERATIONS FOR SUCH AREAS SHALL BE COMPLETED PRIOR TO THE PERFORMANCE OF DENSITY TESTS ON THE FINISHED BASE.

MULTIPLE COURSE BASE: CLEAN THE FIRST COURSE OF FOREIGN MATERIAL, THEN BLADE AND BRING IT TO A SURFACE CROSS-SECTION APPROXIMATELY PARALLEL TO THE FINISHED BASE. BEFORE SPREADING ANY MATERIAL FOR THE UPPER COURSES, **OBTAIN DENSITY TESTS FOR THE LOWER COURSES** TO DETERMINE THAT THE REQUIRED COMPACTION (NOT LESS THAN ONE HUNDRED PERCENT (100%) OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180) HAS BEEN OBTAINED. AFTER SPREADING THE CRUSHED CONCRETE FOR THE TOP COURSE, FINISH AND SHAPE IT'S SURFACE TO PRODUCE THE REQUIRED GRADE AND CROSS-SECTION, FREE OF SCABS AND LAMINATIONS, AFTER COMPACTION.

THE MINIMUM DENSITY THAT WILL BE ACCEPTED AT ANY LOCATION OUTSIDE THE TRAVELED ROADWAY (SUCH AS INTERSECTIONS, CROSSOVERS, TURNOUTS, ETC.) SHALL BE 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

TESTING OF BASE COURSE

THE MINIMUM **FREQUENCY** OF SAMPLING AND TESTING OF CRUSHED CONCRETE MATERIAL, LAB DENSITY, FIELD DENSITY AND THICKNESS SHALL ADHERE TO THE FREQUENCY OF TESTING FOR LIMEROCK BASE IN THE MOST CURRENT EDITION OF **"PASCO COUNTY ENGINEERING SERVICES DEPARTMENT TESTING SPECIFICATIONS FOR CONSTRUCTION OF ROADS, STORM DRAINAGE AND UTILITIES".** ONE PLANT MIX DESIGN, ONE PLANT GRADATION TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (AASHTO T-27) (FM1-T027) INCLUDING A PLASTICITY INDEX (FM-T090) (AASHTO T-90) FROM THE APPROVED SOURCE SHALL BE SUBMITTED AT ONE PER DAY OR CHANGE OF MATERIAL, ONE ROADWAY FIELD TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C-136) SHALL BE SUBMITTED PER 500 FEET OF ROAD PER DAY PER MIX DESIGN; MINIMUM ONE PER ROAD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING PERFORMED IN CONNECTION WITH CONSTRUCTION OF THE BASE.

CORRECTION OF DEFECTS

ALL SEGREGATED AREAS OF FINE OR COURSE CRUSHED CONCRETE SHALL BE REMOVED AND REPLACED WITH PROPERLY GRADED RECLAIMED CONCRETE AGGREGATE BASE MATERIAL. ALL DEFECTS IN MATERIALS AND CONSTRUCTION SHALL BE CORRECTED BY THE CONTRACTOR, AT HIS EXPENSE, AND TO THE SATISFACTION OF THE COUNTY ENGINEER.

PRIMING AND MAINTENANCE

APPLY THE PRIME COAT ONLY WHEN THE BASE MEETS THE SPECIFIED DENSITY REQUIREMENTS AND WHEN THE MOISTURE CONTENT. AT THE TIME OF PRIMING, ENSURE THAT THE BASE IS FIRM, UNYIELDING AND IN SUCH CONDITION THAT NO UNDUE DISTORTION WILL OCCUR. MAINTAIN THE TRUE CROWN AND TEMPLATE, WITH NO RUTTING OR DISTORTION, WHILE APPLYING THE SURFACE COURSE.

EMBANKMENT MATERIAL UNDER CONCRETE PAVEMENT SHALL BE PER FDOT INDEX No. 505.

PASCO COUNTY TESTING SPECIFICATIONS ON CRUSHED CONCRETE BASE

TESTS FOR BASE THICKNESS, AND DENSITY SHALL BE LOCATED NO MORE THAN THREE HUNDRED (300) FEET APART AND SHALL BE STAGGERED TO THE LEFT, RIGHT, AND ON THE CENTERLINE OF ROADWAY. THERE SHALL BE NO LESS THAN ONE (1) TEST PER STREET. BEARING VALUE, GRADATION AND FIELD TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C-136) SHALL BE NO MORE THAN FIVE HUNDRED (500) FEET.

EXAMPLE: A SEVEN HUNDRED FEET ROAD WOULD REQUIRE TWO FIELD LBR AND GRADATION TESTS, THREE FIELD DENSITY AND THICKNESS TESTS ALONG WITH THE APPROPRIATE LAB TESTING.

NOTE:
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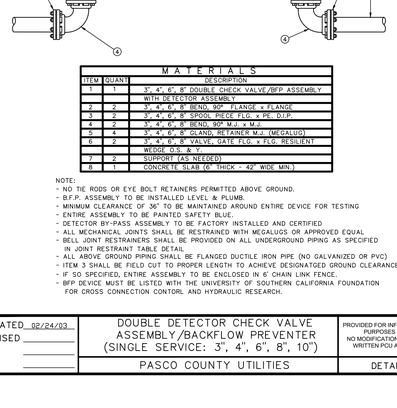
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

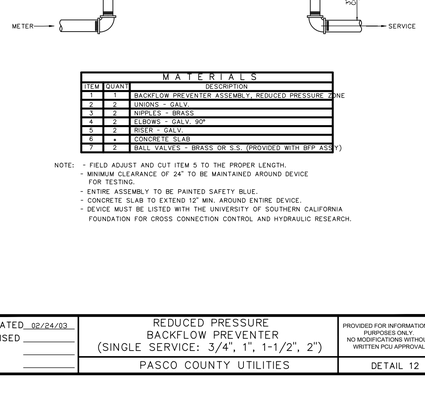
PASCO COUNTY ENGINEERING SERVICES	CRUSHED - CONCRETE BASE SPECIFICATIONS	Sheet No. 2 of 2
DESIGN STANDARDS	APPROVED BY JCW / BCC APPROVAL / REVISED	Index No. 104



MATERIALS		
ITEM	QUANT	DESCRIPTION
1	1	3", 4", 6", 8" DOUBLE CHECK VALVE/BFP ASSEMBLY WITH DETECTOR ASSEMBLY
2	2	3", 4", 6", 8" BEND, 90° FLANGE x FLANGE
3	2	3", 4", 6", 8" SPOOL PIECE FLG. x PE. D.I.P.
4	2	3", 4", 6", 8" BEND, 90° M.J. x M.J.
5	4	3", 4", 6", 8" GLAND, RETAINER M.J. (MEGALUG)
6	2	3", 4", 6", 8" VALVE, GATE FLG. x FLG. RESILIENT WEDGE O.S. & Y
7	2	SUPPORT (AS NEEDED)
8	1	CONCRETE SLAB (6" THICK x 42" WIDE MIN.)

NOTE:
- NO TIE RODS OR EYE BOLT RETAINERS PERMITTED ABOVE GROUND.
- B.F.P. ASSEMBLY TO BE INSTALLED LEVEL & PLUMB.
- MINIMUM CLEARANCE OF 36" TO BE MAINTAINED AROUND ENTIRE DEVICE FOR TESTING
- ENTIRE ASSEMBLY TO BE PAINTED SAFETY BLUE.
- DETECTOR BY-PASS ASSEMBLY TO BE FACTORY INSTALLED AND CERTIFIED
- ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUGS OR APPROVED EQUAL
- BELL JOINT RESTRAINERS SHALL BE PROVIDED ON ALL UNDERGROUND PIPING AS SPECIFIED IN JOINT RESTRAINT TABLE DETAIL
- ALL ABOVE GROUND PIPING SHALL BE FLANGED DUCTILE IRON PIPE (NO GALVANIZED OR PVC)
- ITEM 3 SHALL BE FIELD CUT TO PROPER LENGTH TO ACHIEVE DESIGNATGED GROUND CLEARANCE
- IF SO SPECIFIED, ENTIRE ASSEMBLY TO BE ENCLOSED IN 6' CHAIN LINK FENCE.
- BFP DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTORL AND HYDRAULIC RESEARCH.

CREATED 02/24/03 / REVISED	DOUBLE DETECTOR CHECK VALVE ASSEMBLY/BACKFLOW PREVENTER (SINGLE SERVICE: 3", 4", 6", 8", 10")	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL 10

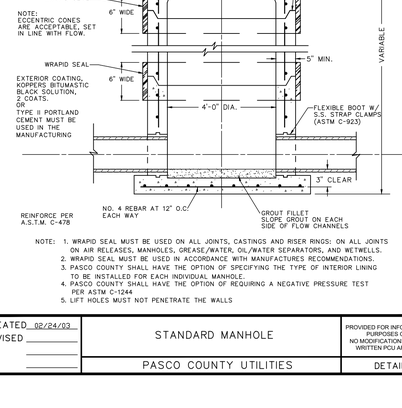


MATERIALS		
ITEM	QUANT	DESCRIPTION
1	1	BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	2	UNIONS - GALV.
3	2	NIPPLES - BRASS
4	2	ELBOWS - GALV. 90°
5	2	RISER - GALV.
6	*	CONCRETE SLAB
7	2	BALL VALVES - BRASS OR S.S. (PROVIDED WITH BFP ASSY)

NOTE: - FIELD ADJUST AND CUT ITEM 5 TO THE PROPER LENGTH.
- MINIMUM CLEARANCE OF 24" TO BE MAINTAINED AROUND DEVICE FOR TESTING.
- ENTIRE ASSEMBLY TO BE PAINTED SAFETY BLUE.
- CONCRETE SLAB TO EXTEND 12" MIN. AROUND ENTIRE DEVICE.
- DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.

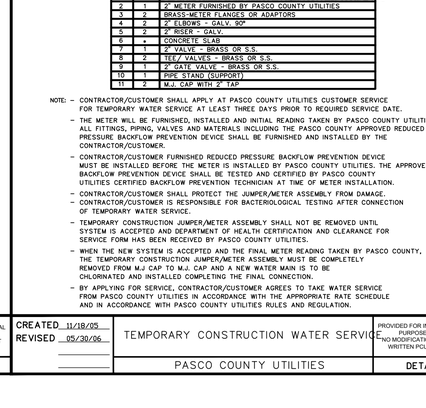
CREATED 02/24/03 / REVISED	REDUCED PRESSURE BACKFLOW PREVENTER (SINGLE SERVICE: 3/4", 1", 1-1/2", 2")	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL 12

NOTE:
PRECAST CONCRETE
SHALL ATTAIN A MINIMUM
COMPRESSIVE STRENGTH
OF 4,000 p.s.i. AT 28 DAYS.



NOTE: 1. WRAPID SEAL MUST BE USED ON ALL JOINTS, CASTINGS AND RISER RINGS: ON ALL JOINTS ON AIR RELEASES, MANHOLES, GREASE/WATER, OIL/WATER SEPARATORS, AND WETWELLS.
2. WRAPID SEAL MUST BE USED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.
3. PASCO COUNTY SHALL HAVE THE OPTION OF SPECIFYING THE TYPE OF INTERIOR LINING TO BE INSTALLED FOR EACH INDIVIDUAL MANHOLE.
4. PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING A NEGATIVE PRESSURE TEST PER ASTM C-1244
5. LIFT HOLES MUST NOT PENETRATE THE WALLS

CREATED 02/24/03 / REVISED	STANDARD MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL 41



MATERIALS		
ITEM	QUANT	DESCRIPTION
1	1	2" BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	1	2" METER FURNISHED BY PASCO COUNTY UTILITIES
3	2	BRASS-METER FLANGES OR ADAPTORS
4	2	2" ELBOWS - GALV. 90°
5	2	2" RISER - GALV.
6	*	CONCRETE SLAB
7	1	2" VALVE - BRASS OR S.S.
8	2	TEE/ VALVES - BRASS OR S.S.
9	1	2" GATE VALVE - BRASS OR S.S.
10	1	PIPE STAND (SUPPORT)
11	2	M.J. CAP WITH 2" TAP

NOTE: – CONTRACTOR/CUSTOMER SHALL APPLY AT PASCO COUNTY UTILITIES CUSTOMER SERVICE FOR TEMPORARY WATER SERVICE AT LEAST THREE DAYS PRIOR TO REQUIRED SERVICE DATE.
– THE METER WILL BE FURNISHED, INSTALLED AND INITIAL READING TAKEN BY PASCO COUNTY UTILITIES. ALL FITTINGS, PIPING, VALVES AND MATERIALS INCLUDING THE PASCO COUNTY APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR/CUSTOMER.
– CONTRACTOR/CUSTOMER FURNISHED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE MUST BE INSTALLED BEFORE THE METER IS INSTALLED BY PASCO COUNTY UTILITIES. THE APPROVED BACKFLOW PREVENTION DEVICE SHALL BE TESTED AND CERTIFIED BY PASCO COUNTY UTILITIES CERTIFIED BACKFLOW PREVENTION TECHNICIAN AT TIME OF METER INSTALLATION.
– CONTRACTOR/CUSTOMER SHALL PROTECT THE JUMPER/METER ASSEMBLY FROM DAMAGE.
– CONTRACTOR/CUSTOMER IS RESPONSIBLE FOR BACTERIOLOGICAL TESTING AFTER CONNECTION OF TEMPORARY WATER SERVICE.
– TEMPORARY CONSTRUCTION JUMPER/METER ASSEMBLY SHALL NOT BE REMOVED UNTIL SYSTEM IS ACCEPTED AND DEPARTMENT OF HEALTH CERTIFICATION AND CLEARANCE FOR SERVICE FORM HAS BEEN RECEIVED BY PASCO COUNTY UTILITIES.
– WHEN THE NEW SYSTEM IS ACCEPTED AND THE FINAL METER READING TAKEN BY PASCO COUNTY, THE TEMPORARY CONSTRUCTION JUMPER/METER ASSEMBLY MUST BE COMPLETELY REMOVED FROM M.J CAP TO M.J. CAP AND A NEW WATER MAIN IS TO BE CHLORINATED AND INSTALLED COMPLETING THE FINAL CONNECTION.
– BY APPLYING FOR SERVICE, CONTRACTOR/CUSTOMER AGREES TO TAKE WATER SERVICE FROM PASCO COUNTY UTILITIES IN ACCORDANCE WITH THE APPROPRIATE RATE SCHEDULE AND IN ACCORDANCE WITH PASCO COUNTY UTILITIES RULES AND REGULATION.

CREATED 11/18/05 / REVISED 05/30/06	TEMPORARY CONSTRUCTION WATER SERVICE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL 01

NO.	BY	DATE	DESCRIPTION
5	MHK	2/5/2018	ADDRESSED, NITAL, UTILITY COMMENTS
4			
3			
2			
1			

DRAWN BY: MICHAEL KNIGHT
DATE: 2/5/2018
APPROVED BY: CHRIS WEDDLE
JOB NO.: 17-172
DESIGNED BY: MICHAEL KNIGHT
DRAWN BY: MICHAEL KNIGHT
CHECKED BY: CHRIS WEDDLE

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY

SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

PASCO COUNTY DETAILS

AUTORA ENGINEERING, INC.
CIVIL ENGINEERING
610 E. Morgan Street Brandon, FL 33510 (813)643-9907

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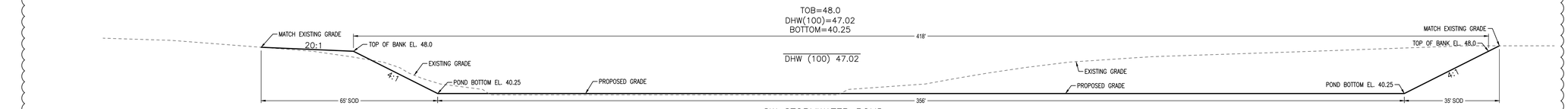
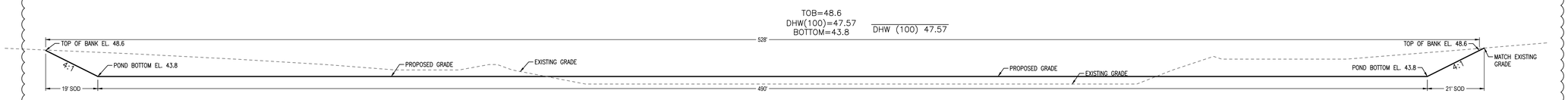
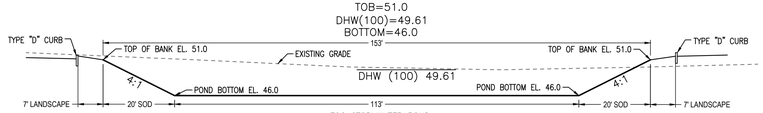
C



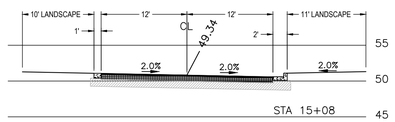
SW STORMWATER POND
AREA = 4.21 AC.
1"=20' (H)
1"=10' (V)



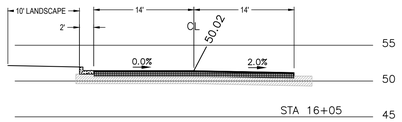
FUTURE SE STORMWATER POND
AREA = 3.05 AC.
1"=20' (H)
1"=10' (V)



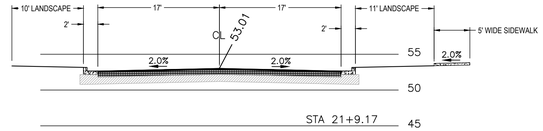
EOC STORMWATER POND
AREA = 0.26 AC.
1"=20' (H)
1"=10' (V)



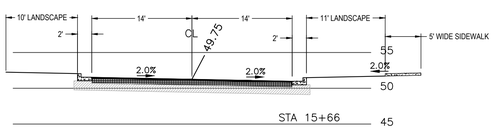
SECTION "A–A"
SCALE: 1"= 10' HORZ
1"= 10' VERT



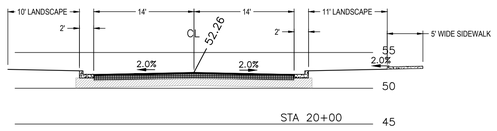
SECTION "C–C"
SCALE: 1"= 10' HORZ
1"= 10' VERT



SECTION "E–E"
SCALE: 1"= 10' HORZ
1"= 10' VERT



SECTION "B–B"
SCALE: 1"= 10' HORZ
1"= 10' VERT



SECTION "D–D"
SCALE: 1"= 10' HORZ
1"= 10' VERT

CALL 48 HOURS
BEFORE YOU DIG
It's the Law!
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NO.	BY	DATE	DESCRIPTION
1	TDG	2-27-2018	ADDRESS PASCO COUNTY COMMENTS

DRAWN BY: MICHAEL KNIGHT
DATE: 12-21-17
APPROVED BY: CHRIS WEDDLE
JOB NO. 17-172
DESIGNED BY: MICHAEL KNIGHT
CHECKED BY: CHRIS WEDDLE

ROADWAY-DRAINAGE CROSS SECTIONS

SEMINOLE ELECTRIC COOP
EMCC BACK-UP fACILITY
SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

AURORA CIVIL ENGINEERING, INC
610 E. Morgan Street Brandon, FL 33510 (813)643-9907

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STATE OF FLORIDA
CHRISTOPHER F. REITZELL, P.E.
LICENSE NO. 0060909
CERTIFICATE OF AUTHORIZATION NO. 0000909

C-13

Basin Post
Area: 9.4 acres
CN: 85.0
Tc: 20 min

FUTURE POND

STOCKPILE

EOC POND

SW STORMWATER POND

Basin Post
Area: 13.4 acres
CN: 85.0
Tc: 20 min

FUTURE SE STORMWATER POND

Basin Post
Area: 32.5 acres
CN: 85.0
Tc: 20 min

FLOOD ZONE "A"

UNPLATTED

LESSEE OUT PORTION (D)
UNPLATTED LANDS

N89°45'22"W 1148.19'(M)

NORTH

SCALE: 1" = 100'

LEGEND

- MASTER DRAINAGE BASIN LINE
- NO DEVELOPMENT WITHOUT ERP PERMIT MODIFICATION
- PROJECT LIMITS
- STORM PIPE
- POWER LINE
- SETBACK LINE
- EROSION CONTROL

NO.	BY	DATE	DESCRIPTION
1	MHK	1-29-18	ADDRESSED FDEP, ERP, INITIAL COMMENTS

DESIGNED BY: MICHAEL KNIGHT
DRAWN BY: MICHAEL KNIGHT
CHECKED BY: CHRIS WEDDLE
APPROVED BY: ---
DATE: 12-21-17
JOB NO. 17-172

MASTER DRAINAGE PLAN

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY

SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

AURORA CIVIL ENGINEERING, INC
610 E. Morgan Street Brandon, FL 33510 (813)643-9907

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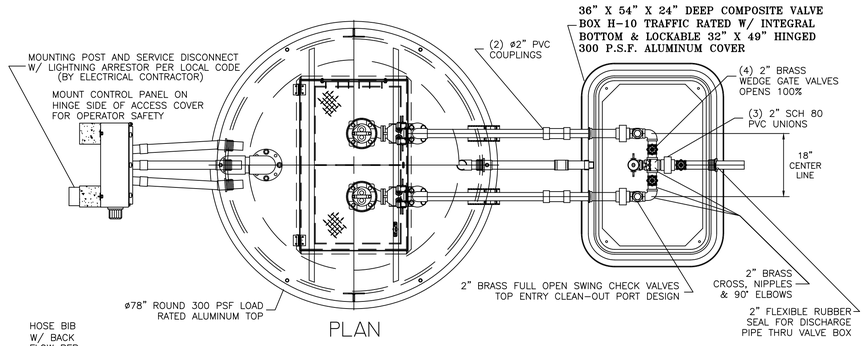
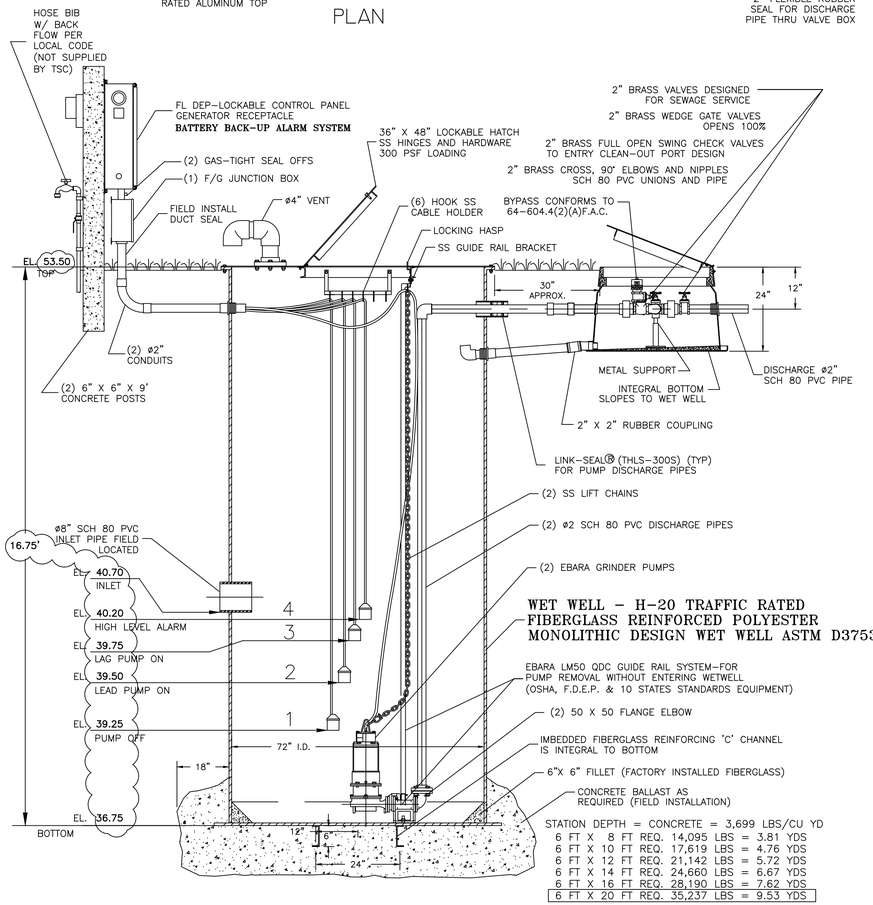
CHRISTOPHER E. WEDDLE, P.E.
LICENSE NUMBER 68344
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION NO. 00008809



PLAN

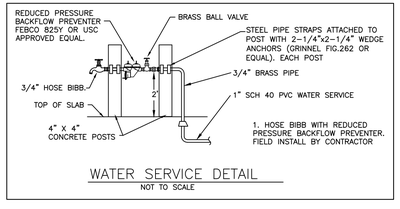


STATION DEPTH = CONCRETE = 3,699 LBS/CU YD

6 FT X	8 FT	REQ. 14,095 LBS	= 3.81 YDS
6 FT X	10 FT	REQ. 17,619 LBS	= 4.76 YDS
6 FT X	12 FT	REQ. 21,142 LBS	= 5.72 YDS
6 FT X	14 FT	REQ. 24,660 LBS	= 6.67 YDS
6 FT X	16 FT	REQ. 28,190 LBS	= 7.62 YDS
6 FT X	20 FT	REQ. 35,237 LBS	= 9.53 YDS

SECTION

72' DUPLEX GRINDER STATION - 2" PIPING WITH SLIDE RAIL SYSTEM, V.B., F.D.E.P. PANEL + B.B.U. TSC PRE-FAB PUMP SOLUTIONS ©



WATER SERVICE DETAIL
NOT TO SCALE

NOTE:
AN UNOBSTRUCTED SIGN MADE OF DURABLE WEATHER RESISTANT MATERIAL SHALL BE POSTED AT A LOCATION VISIBLE TO THE PUBLIC. THE SIGN SHALL HAVE MINIMUM 2" HIGH LETTERS AND WILL INCLUDE A TELEPHONE NUMBER FOR A POINT OF CONTACT IN CASE OF EMERGENCY.

COORDINATE EMERGENCY CONTACT INFORMATION WITH OWNER

1. HOSE BIBB WITH REDUCED PRESSURE BACKFLOW PREVENTER FIELD INSTALL BY CONTRACTOR

MODEL
TSC2-72.1 BBU R9.dwg©

JOB: _____

QS: _____

GENERAL NOTES

FURNISH AND INSTALL EBARA SUBMERSIBLE PUMPS:

DESIGN CONDITION:

MODEL	32 DGFU ~~OR 50 DGFU~~	2, ~~3 OR 5~~	HP
GPM	25	25	FT/TDH
VOLTAGE	208/230	SINGLE OR THREE	PHASE
DISCHARGE	2"	97 mm	IMPELLER

SEWAGE GRINDER PUMP: 1. RATED FOR TWENTY (20) STARTS PER HOUR.

2. AIR FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS F INSULATION.

3. DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE) LOCATED OUT OF THE PUMPAGE, IN A SEPARATE OIL FILLED CHAMBER.

4. HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 60,000 HOURS, UPPER BEARING - SINGLE ROW AND LOWER BEARINGS - DOUBLE ROW TYPE.

5. PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.

6. SINGLE PHASE MOTORS SHALL BE DUAL WOUND, CAPACITOR START-RUN AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260). THREE PHASE MOTORS SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

FIBERGLASS WET WELL: SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 & H-20 SPECIFICATIONS SHALL BE REQUIRED AS MINIMUM.

ALUMINUM HATCH: TSC MODEL-78R (78") ROUND WITH 36" X 48" LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT WITH HOLD OPEN SAFETY ARM, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

VALVE BOX: FIBERGLASS COMPOSITE (H-10 TRAFFIC RATED) WITH INTEGRAL BOTTOM. (FOR 1 1/4" AND 2" DISCHARGE PIPING SXS HEADER SYSTEM) SHALL BE 36" X 54" X 24" WITH 32" X 49" LIMITED ACCESS LID

ACCESSORIES: #304 S/S - GUIDE RAILS, UPPER GUIDE RAIL BRACKETS, CABLE HOLDER, ANCHOR BOLTS AND PUMP LIFTING CHAINS.

VALVES : SHALL BE SEWAGE SERVICE DESIGN BRASS SWING CHECK VALVES WITH TOP ENTRY CLEAN-OUT PORT AND BRASS WEDGE GATE VALVES OPEN 100%.

PIPING: 2" SCHEDULE 80 PVC.

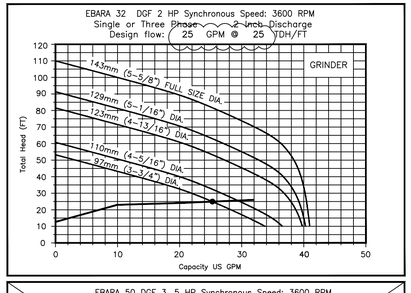
FLOAT SWITCHES: UL LISTED SJ ELECTRO MODEL (SJ 30 SWENO).

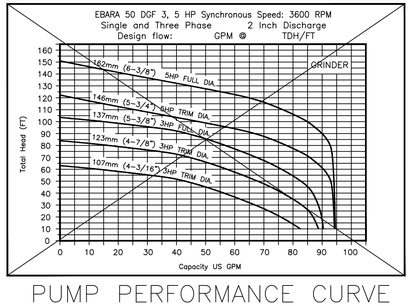
PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, JUNCTION BOX, FLOAT SWITCHES, ALUMINUM HATCH AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, SLIDE RAIL ASSEMBLIES AND DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION.

THE MANUFACTURER OF PRE-FAB PUMP SOLUTIONS©:
TECHNICAL SALES CORPORATION, 4621 N. HALE AVE TAMPA, FL 33614 (813)876-9256

EBARA Submersible Pump





PUMP PERFORMANCE CURVE

CONTROL PANEL -SHALL CONFORM TO FL DEP 64-604.42(A)

CONTROL PANEL SHALL BE TSC MODEL # 38-D IN NEMA 4X FIBERGLASS ENCLOSURE. THE PANEL SHALL MEET STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), ENVIRONMENTAL PROTECTION COMMISSION (EPC) AND LOCAL CODE REQUIREMENTS GOVERNING PRIVATE LIFT STATIONS.

FLOAT SWITCHES AND CONTROL SYSTEM SHALL BE UL LISTED AND INTRINSICALLY SAFE. ALL COMPONENTS SHALL BE UL LISTED.

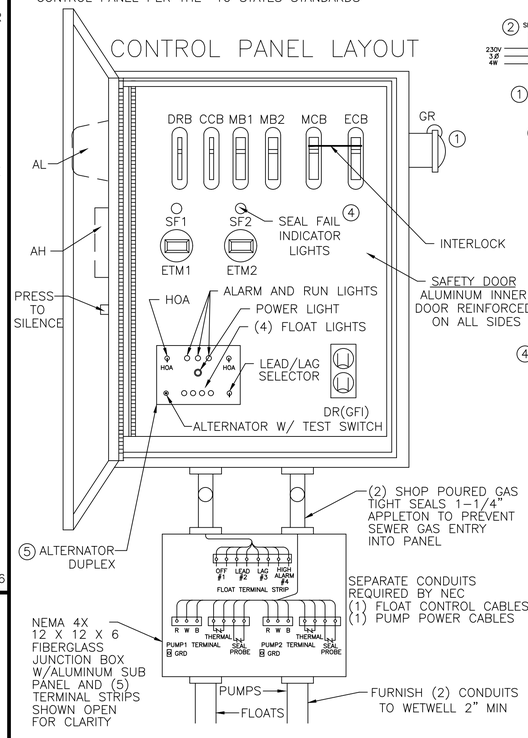
A JUNCTION BOX IS REQUIRED, WITH SHOP POURED SEALS BETWEEN BOX AND CONTROL PANEL TO PREVENT SEWER GAS ENTRY INTO CONTROL PANEL.

ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECT WITH LIGHTNING ARRESTOR MOUNTED PER LOCAL CODES.

THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.

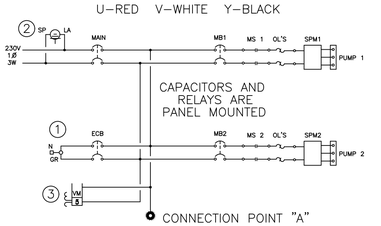
BATTERY BACK-UP ALARM SYSTEM TO BE INCORPORATED INTO CONTROL PANEL PER THE "10 STATES STANDARDS"

CONTROL PANEL LAYOUT



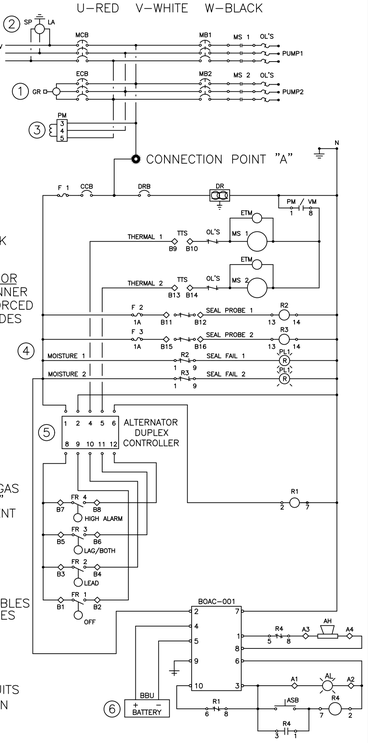
SINGLE PHASE WIRING DIAGRAM

U-RED V-WHITE Y-BLACK



THREE PHASE WIRING DIAGRAM

U-RED V-WHITE W-BLACK



LEGEND

	AH	ALARM HORN
	AL	ALARM LIGHT
	ASB	ALARM SILENCE BUTTON
(5)	ATS	ALTERNATOR W/TEST SWITCH
(6)	BBU	BATTERY (BACK-UP UNIT)
	CCB	CONTROL CIRCUIT BREAKER
	DR	DUPLEX RECEPTACLE
	DRB	DUPLEX RECEPTACLE BREAKER
	ECB	EMERGENCY CIRCUIT BREAKER
	ETM	ELAPSED TIME METER
	F	FUSE
	FL	FLASHER
	FS	FLOAT SWITCH (REGULATOR)
(1)	GR	GENERATOR RECEPTACLE
	GRD	GROUND
	HOA	HAND-OFF-AUTOMATIC SELECTOR
	LA	LIGHTNING ARRESTOR
	MB	MOTOR BREAKER
	MCB	MAIN CIRCUIT BREAKER
	MS	MOTOR STARTER
	N	NEUTRAL
	OL'S	OVERLOAD HEATERS
(3)	PM	PHASE MONITOR
	PTS	PUMP TERMINAL STRIP
	R	RELAY
	RC	RUN CAPACITOR
	RD	DISCHARGE RESISTOR
	RL	PUMP RUN INDICATORS
	RTS	REGULATOR TERMINAL STRIP
	SC	START CAPACITOR
(4)	SF	SEAL FAIL (SHAFT)
	SR	START RELAY
(2)	SP	SURGE PROTECTOR
	TTS	THERMAL TERMINAL STRIP

PANEL WIRING DIAGRAM

PANELS SHALL CONFORM TO FLORIDA DEP 64-604.400

(1) GENERATOR RECEPTACLE FOR EMERGENCY POWER CONNECTION WITH INTERLOCK

(2) SURGE PROTECTION AND LIGHTNING PROTECTION ON ALL INCOMING LEGS

(3) PHASE PROTECTION SHALL BE PROVIDED

(4) SHAFT SEAL FAIL DETECTION

(5) ALTERNATOR W/TEST SWITCH

(6) BATTERY BACK-UP UNIT

PANEL MANUFACTURER SHALL BE A "UL" LISTED SHOP.

TSC DUPLEX GRINDER PUMP STATION
FIBERGLASS WET WELL

TECHNICAL SALES CORPORATION
TSC PRE-FAB PUMP SOLUTIONS©
WATERWORKS & WASTEWATER SPECIALTIES
Representing Innovative Manufacturers
MODEL TSCE2-72.1 BBU©
4621 N. HALE AVENUE PH (813)876-9256
TAMPA, FL 33614 FAX (813)874-1194
EMAIL: Sales@TSCTampa.com
Rev-9 SCALE: N.T.S.

NO.	BY	DATE	DESCRIPTION
5			
4			
3			
2			
1			

REVISIONS

DRAWN BY: MICHAEL KNIGHT DATE: 12-21-17
APPROVED BY: CHRIS WEDDLE JOB NO.: 17-172

LIFT STATION PLAN

SEMINOLE ELECTRIC COOP EMCC BACK-UP FACILITY

SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

AURORA CIVIL ENGINEERING, INC
810 E. Morgan Street Brandon, FL 33510 (813)643-9907

This item has been electronically signed and sealed by CHRISTOPHER E. NICOLAS, P.E. on 2/27/2018 using a Digital Signature.
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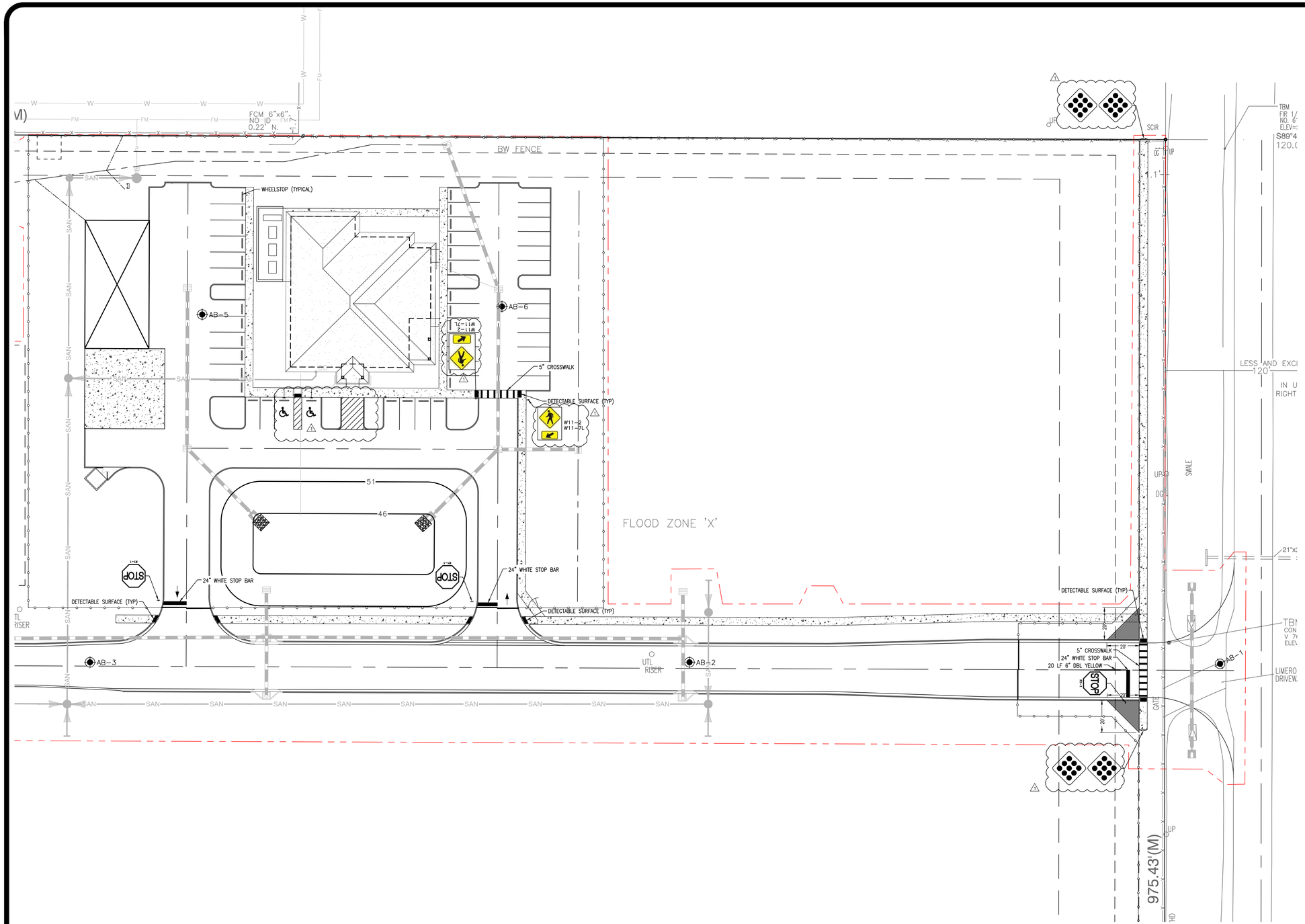
CHRISTOPHER E. NICOLAS, P.E.
FLORIDA REGISTRATION No. 56548
CERTIFICATE OF AUTHORIZATION No. 26008309

C-15



NORTH

SCALE: 1" = 30'

CALL 48 HOURS BEFORE YOU DIG

It's the Law!

1-800-432-4770

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SIGNING / MARKING NOTES:

1. STRIPING AND PAINTED MARKINGS ARE NOT SHOWN TO SCALE. REFER TO FDOT INDEX 17346 FOR SPECIAL MARKING AREAS FOR DIMENSIONS. ALL SIGN AND PAVEMENT MARKING TO CONFORM TO MUTCD LATEST EDITION.
2. ALL STRIPING AND PAVEMENT MARKING TO BE PAINT.
3. STOP BARS TO BE 24" WIDE PAINTED.
4. PARKING SPACE STRIPING TO BE 6" WIDE. WHITE PAINTED.
5. LANE LINE STRIPING TO BE 6" WIDE. COLOR AS NOTED.
6. SIDEWALK CURB RAMPS TO BE IN ACCORDANCE WITH CR21 FDOT INDEX 304 WITH RED TRUNCATED DOMES (TYPICAL).
7. STOP SIGNS TO BE PER MUTCD R1-1.

TYPICAL SIGNAGE

R1-1 STOP SIGN
30"x30" WHITE LETTERS ON RED BACKGROUND (TYP.), POST MOUNTED

W11-2 SIGN, 24"x24" BLACK SYMBOLS ON YELLOW BACKGROUND (TYP)

W11-7L

CASE II RED REFLECTOR SIGNS PER FDOT INDEX 17349
18"x18", (9) RED REFLECTIVE BUTTONS ON RED REFLECTIVE BACKGROUND

NO.	BY	DATE	DESCRIPTION
1	TDG	2-26-2018	ADDRESSED PASCO COUNTY COMMENTS

DRAWN BY: MICHAEL KNIGHT
DATE: 12-21-17
JOB NO.: 17-172
APPROVED BY: CHRIS WEDDLE
CHECKED BY: CHRIS WEDDLE

SIGN/MARKING PLAN

SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY

SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

AURORA CIVIL ENGINEERING, INC
610 E. Morgan Street Brandon, FL 33510 (813)843-3907

This item has been electronically signed and sealed by CHRISTOPHER F. NEUSELL, P.E. on 2/27/2018 using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CHRISTOPHER F. NEUSELL, P.E.
FLORIDA REGISTRATION NO. 0056969
CERTIFICATE OF AUTHORIZATION NO. 30008909

SITE DESCRIPTION

This Stormwater Pollution Prevention Plan (SWPPP) is for the construction of a 1-story office facility. Construction activities to include clearing, grubbing, excavation, fill, construction of parking areas, building, utility and stormwater system.

The EMCC Backup facility will be located at 14425 Softwind Lane, Section 25, Township 24, Range 17 in Pasco County, FL.

Latitude: 28.22.04.1 Longitude: 82.33.12.9

Owner: Seminole Electric Cooperative, Inc
16313 North Dale Mabry Hwy.
Tampa, FL 33618
Phone: (813) 739-1237
Attn: Michael Ward

Civil Engineer: Aurora Civil Engineering, Inc.
610 East Morgan Street
Brandon, FL 33510
Phone: (813) 643-9907
Fax: (813) 643-9917
Attn: Chris Weddle, P.E.

Construction Plans: SEMINOLE ELECTRIC COOP – EMCC BACK-UP FACILITY

FDEP Permit: APP: 51-0360052-001; Permit: "TBD" ⚠1

General Contractor: (TBD)

SEQUENCE OF CONSTRUCTION EVENTS:

1. Install staked silt fence and other erosion control features as indicated on construction plans.
2. Clear & grub for ponds to be used as sedimentation basins, (if applicable).
3. Excavate pond for sediment traps for site runoff, (if applicable).
4. Construct perimeter diversion swales to route runoff to ponds as required, (if applicable).
5. Continue clearing & grubbing of remainder of site.
6. Fill building site to grade & begin building construction.
7. Excavate remainder of ponds. Stabilize pond banks with sod or seed and mulch per plans, (if applicable).
8. Fill remainder of site & install stormwater piping system and storm piping system silt controls.
9. Construct underground utility system and parking lot base, curbing & paving.
10. Final grading and landscaping/sod installation.
11. Clean stormwater system and remove sediments from pond as required.
12. Once all site areas stabilized, remove erosion protection devices.

NAME OF RECEIVING WATERS:

Bear Creek (Pasco County)

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES:

Denude only portions of the site expected to be graded or altered within 14 days. In no case denude more than one half the site area at a time.

Temporary Stabilization – Denuded areas, soil stockpiles and other areas of the site where construction activity temporarily ceases for at least 21 days will be stabilized with temporary seed and mulch no later than 14 days after the last construction activity in that area. Hydromulch using locally recommended application for quick germinating ground cover. As an alternative, manually apply rye grain at the rate of 150 pounds per acre (or other quick germinating ground cover at recommended rate for area) along with10-10-10 fertilizer at rate recommended by manufacturer and apply 3,000 pounds per acre of straw (or other fibrous mulch) secured by crimping. Reapply as required until vegetative cover established.

Wind Erosion Stabilization – Manage fugitive dust from bare areas and areas of active construction by applying water spray to saturate surface soils. Apply water spray on a daily basis or as needed to maintain minimal dust transport. Monitor fugitive dust on a continuous basis and use additional measures as required to control off-site transport of unacceptable levels of dust. Stabilize area to be paved by spreading base material.

Permanent Stabilization – Permanently stabilize all disturbed areas with pavement, landscaping & mulch, sod, seed & mulch, etc. per plans. Maintain as required.

STRUCTURAL PRACTICES:

Prior to disturbing the site, install staked silt fence barriers and other erosion control measures per plans. Excavate portions of ponds to use as sediment basins and construct diversion swales to route site runoff into sediment basins. Inspect all aspects of the system per the inspection plan and maintain as required. Install additional erosion control measures such as staked hay or straw bales, double row of silt fence, etc. at locations of excessive erosion. Install sediment traps such as geotextile fabric with clean rock cover at sediment pond outfall locations if turbid discharge is noted.

STORM WATER MANAGEMENT:

The permanent storm water system will include curbed and paved parking areas with storm inlets. An underground stormwater piping system will convey stormwater to the ponds. Sediments accumulated in the stormwater system and ponds during construction will be removed prior to completion of the project. All pervious areas of the site disturbed during construction will be revegetated with a permanent vegetative cover.

OTHER CONTROLS

WASTE MANAGEMENT:

Collect and contain all waste materials in a controlled area in accordance with applicable regulations. All trash and construction debris to be removed from site and properly disposed. No construction debris to be buried on-site. The General Contractor for the site is responsible for assuring that all personnel are instructed regarding the correct procedures for waste disposal and will be responsible for implementing these procedures.

HAZARDOUS WASTE:

Local and state environmental agencies will be notified if any hazardous materials or waste are encountered on the site. Hazardous waste/materials will be identified, removed from the site and properly disposed per applicable regulations. Hazardous materials/waste generated and/or stored on-site will be handled, stored, transported and disposed per applicable regulations. The General Contractor for the site is responsible for assuring that all personnel are instructed regarding the correct procedures for hazardous waste/materials and will be responsible for implementing these procedures.

SANITARY WASTE:

Portable toilet units will be utilized to collect sanitary waste. Waste from portable toilet units to be collected and disposed by licensed sanitary waste hauler in accordance with applicable regulations.

OFF-SITE VEHICLE TRACKING:

Stabilized construction entrances will be constructed to minimize off-site vehicle tracking. Paved streets used for haul routes will be cleaned as needed to remove excess mud, dirt and rock tracked from the site. Dump trucks hauling material from and to the site to be covered with a tarpaulin at all times.

TIMING OF CONTROLS/MEASURES:

The Sequence of Construction (see above) will be followed as practicable.

CERTIFICATION OF COMPLIANCE

This Storm Water Pollution Prevention Plan reflects applicable Federal, State and local regulations for stormwater management and erosion and sediment control.

MAINTENANCE/INSPECTION PROCEDURES

EROSION & SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

* Less than one half of the site will be denuded at one time.
* All control measures will be inspected at least once each week and following any storm event of 0.5 inches or greater.
* All measures will be maintained in good working order and; if repair is necessary, will be initiated within 24 hours of the report.
* Built up sediment will be removed from silt fences when it has reached one-third the height of the fence.
* Silt fence will be inspected for depth of sediment, tears, secure attachment to posts and firm embedment of posts in the ground.
* Sediment basin(s) will be inspected for depth of sediment and built up sediment will be removed when it reaches ten percent of the design capacity and at the end of the job.
* Other erosion control devices installed and diversion swales will be inspected and any needed repairs made within 24 hours of the report.
* Temporary and permanent seed & mulch/sod areas will be inspected for bare spots, washouts and healthy growth. Repairs and reseeding to be initiated within 24 hours of the report.
* A maintenance inspection report will be made after each inspection. A copy of the report to be completed by the inspector is attached. Reports to be kept in a bound notebook at the project site office.
* The General Contractor for the site will assign the Site Superintendent to be responsible for inspections, maintenance and repair activities. The Site Superintendent is authorized to assign responsibility for inspections and maintenance and repair activities to a designated representative(s). General Contractor to advise Owner and Engineer of the names of the Site Superintendent and designated representative(s) and provide 24 hour contact information for same. General Contractor to provide training for Site Superintendent and designated representative(s) to assure they are aware of the inspection and maintenance practices required by this SWPPP.

NON-STORM WATER DISCHARGES:

It is expected that the following non-stormwater discharges will occur from the site during the construction period:

* Water from water line flushing(s).
* Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
* Uncontaminated groundwater from dewatering operations.

INVENTORY FOR POLLUTION PREVENTION PLAN:

The following materials and substances may be present on the site during construction:

* Concrete
* Detergents
* Paints (enamel & latex)
* Metal Studs
* Tar
* Fertilizers
* Petroleum Based Products and Fuels
* Cleaning Solvents
* Wood (including pressure treated)
* Masonry Block
* Roofing Shingles
* Chlorine (for disinfection of water lines)
* Asphalt
* Glass
* Stone

GOOD HOUSEKEEPING:

The following good housekeeping practices will be followed at the site during the construction of the project:

* An effort will be made to store only enough product required to do the job
* All materials stored onsite will be stored in a neat, orderly manner in appropriate containers and, if possible, under a roof or other enclosure.
* Products will be kept in their original containers with the original manufacturer's labels.
* Substances will not be mixed with one another unless recommended by the manufacturer.
* Whenever possible, all of a product will be used up before disposing of the container.
* Manufacturer's recommendation for proper use and disposal will be followed.
* The Site Superintendent will inspect daily to endure proper use and disposal of materials onsite.

These practices are use to reduce the risks associated with hazardous materials:

* Products will be kept in their original containers unless they are not re-sealable.
* Original labels and material safety data will be retained since they contain important product information.
* If surplus product must be disposed of, manufacturer's as well as local, State and Federal recommended methods for proper handling, transport and disposal will be followed.
* Prior to handling hazardous materials, personnel will receive all required training and wear appropriate personal protective equipment.

PRODUCT SPECIFIC PRACTICES:

Petroleum Products – All on-site vehicles and mobile equipment will be monitored for leaks and receive regular preventive maintenance to reduce the chance for leakage. Petroleum products will be stored in appropriately labeled approved containers. Any asphalt substances used on-site will be applied according to the manufacturer's recommendations.

Fertilizers – Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, the fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

Paints – All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged into the storm water system but will be properly disposed of according to

Concrete Trucks – The Site Superintendent will designate an area for concrete trucks to wash out or discharge surplus concrete. A containment berm will be installed around this area to prevent runoff to the remainder of the site. Hard debris will be properly disposed off-site upon completion of the project.

SPILL CONTROL PRACTICES:

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

* Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
* Material and equipment necessary for spill cleanup will be kept in the material storage area on-site. Equipment and materials will include at a minimum; brooms, dust pans, mops, rags, cloves, goggles, kitty litter, sand sawdust and plastic and metal trash containers specifically designated for this purpose.
* All spills will be cleaned up immediately after discovery.
* The spill area will be kept well ventilated and personnel will wear appropriate protective clothing & equipment to prevent injury from contact with hazardous substances.
* Spills of toxic or hazardous material will be reported to the appropriate local and State government agency, regardless of the size of the spill.
* Should a spill occur, the spill prevention plan will be adjusted to include measures to prevent the same type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures implemented will also be included.
* The Site Superintendent will be the spill prevention and cleanup coordinator. The Site Superintendent may designate other site personnel who will receive spill prevention and cleanup training. These individuals may be assigned responsibility for a specific phase of prevention and cleanup. The names and 24 hour contact information for the spill personnel will be posted in the material storage area and in the office trailer on-site.

NOTICE OF TERMINATION:

A Notice of Termination will be submitted to the Florida Department of Environmental Protection after the construction has been completed and the site has undergone final stabilization.

POLLUTION PREVENTION PLAN CERTIFICATION BY OWNER:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

OWNER

NAME

TITLE

SIGNATURE

DATE

CONTRACTORS CERTIFICATION:

I certify under penalty of law that I understand the terms and conditions of the generic National Pollutant Discharge Elimination System (NPDES) permit issued pursuant to Section 403.0885, F.S. that authorizes storm water discharges associated with industrial activity from the construction site identified as part of this certification.

INDIVIDUAL RESPONSIBLE
COMPANY
RESPONSIBILITY
NAME:

General Contractor
TITLE:

SIGNATURE:

DATE:

NAME:

Site Contractor
TITLE:

SIGNATURE:

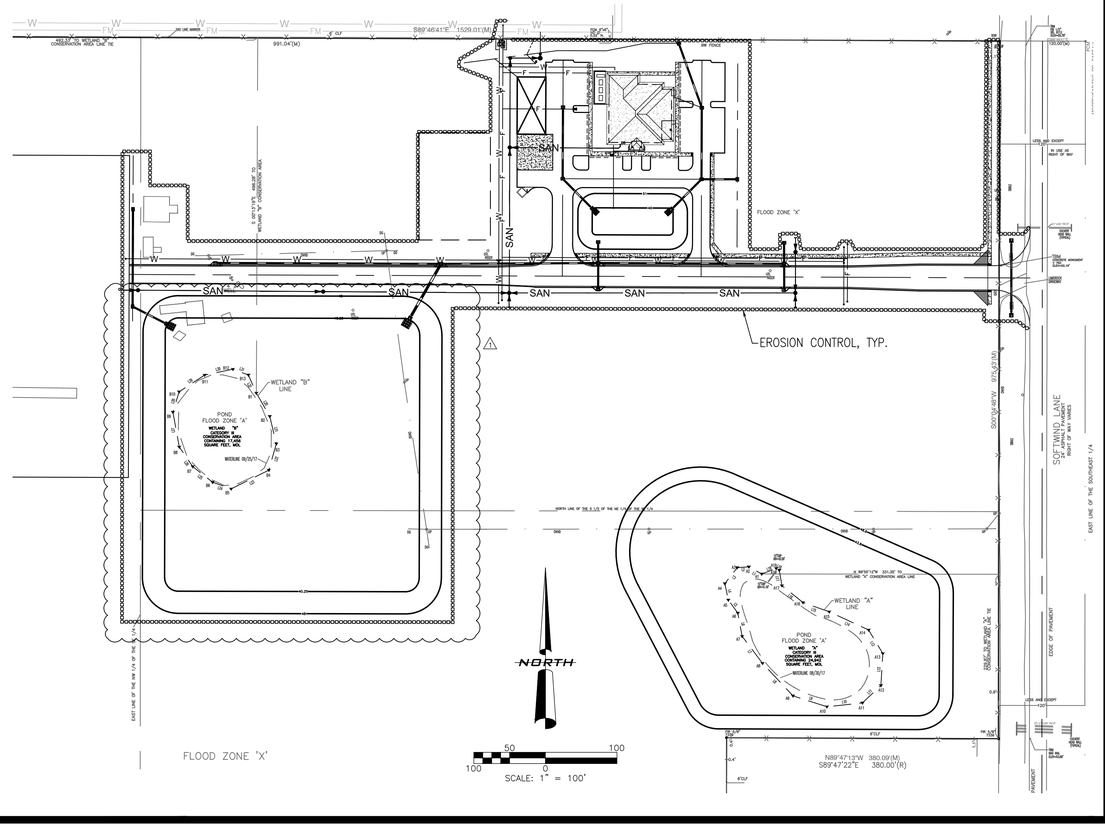
DATE:

NAME:

TITLE:

SIGNATURE:

DATE:



SEMINOLE ELECTRIC COOP
EMCC BACK-UP FACILITY
SEMINOLE ELECTRIC COOPERATIVE INC.
16313 N. DALE MABRY HWY
TAMPA, FL 33618

STORMWATER POLLUTION PREVENTION PLAN

AURORA CIVIL ENGINEERING, INC
810 E. Morgan Street Brandon, FL 33510 (813)643-9907

This item has been electronically signed and sealed by CHRISTOPHER E. WEDDLE, PE on 2/27/2018 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CHRISTOPHER E. WEDDLE, P.E.
FLORIDA REGISTRATION No. 56008909
CERTIFICATE OF AUTHORIZATION No. 30008309

NO.	BY	DATE	DESCRIPTION
1	TDG	2-26-2018	ADDRESSED PASCO COUNTY COMMENTS

DESIGNED BY: MICHAEL KNIGHT
DRAWN BY: MICHAEL KNIGHT
CHECKED BY: CHRIS WEDDLE
APPROVED BY: CHRIS WEDDLE
DATE: 12-21-17
JOB NO.: 17-172

C-17

FLORIDA DEPARTMENT of STATE

RICK SCOTT
Governor

KEN DETZNER
Secretary of State

Florida Department of Environmental Protection
Southwest District – Permitting & Waste Cleanup
13105 N. Telecom Parkway
Temple Terrace, Florida 33637

February 8, 2018

Re: DHR No.: 2018-0289 / Received by DHR: January 11, 2018
Application #: 51-0360052-001 / Applicant: Seminole Electric Inc.
Project: Seminole Electric – Construct EMCC Backup Facility Substation
14425 Softwind Lane, Spring Hill, Pasco County, Florida

To Whom It May Concern:

Our office reviewed the referenced project in accordance with Chapters 267.061 and 373.414, *Florida Statutes*, and implementing state regulations, for possible effects on historic properties listed, or eligible for listing, in the *National Register of Historic Places*, or otherwise of historical, architectural or archaeological value.

A review of the Florida Master Site File indicates that the project area has not been surveyed for archaeological and historical properties. Since conditions in the area are favorable for the presence of these kinds of resources, we recommend that the project area be subjected to a professional cultural resources assessment survey. The resultant survey report should conform to the provisions of Chapter 1A-46, *Florida Administrative Code*, and a hard, color copy should be sent to our office upon completion. The report will help us complete the review process and provide comments or recommendations to the permitting agency in a timely fashion.

The Division of Historical Resources cannot endorse specific archaeological or historic preservation consultants. However, the American Cultural Resources Association maintains a listing of professional consultants at www.acra-crm.org, and the Register of Professional Archaeologists maintains a membership directory at www.rpanet.org. The Division encourages checking references and recent work history.

For any questions concerning our comments, please contact Robin Jackson, Historic Preservationist, Compliance and Review at 850.245.6496, or by electronic mail at robin.jackson@dos.myflorida.com.

Sincerely,

Jasun Aldridge
For

Timothy A. Parsons, Ph.D., RPA
Director, Division of Historical Resources and
State Historic Preservation Officer

Florida Fish and Wildlife Conservation Commission

Commissioners
Bo Rivard
Chairman
Panama City

Robert A. Spottswood
Vice Chairman
Key West

Richard Hanas
Oviedo

Gary Nicklaus
Jupiter

Sonya Rood
St. Augustine

Michael W. Sole
Tequesta

Office of the Executive Director
Eric Sutton
Executive Director

Thomas H. Eason, Ph.D.
Assistant Executive Director

Jennifer Fitzwater
Chief of Staff

850-487-3796
850-921-5786 FAX

Managing fish and wildlife resources for their long-term well-being and the benefit of people.

620 South Meridian Street
Tallahassee, Florida
32399-1600
Voice: 850-488-4676

Hearing/speech-impaired:
800-955-8771 (T)
800 955-8770 (V)

MyFWC.com

February 7, 2018

Chris Stahl
Florida State Clearinghouse Coordinator
Florida Department of Environmental Protection
3900 Commonwealth Blvd., M.S. 47
Tallahassee, FL 32399-3000
Chris.Stahl@dep.state.fl.us

RE: U.S. Department of Agriculture, Rural Utilities Service, Seminole Electric Cooperative, Inc. (SECI), Construction of a Back-up Control Center (BUCC) in Spring Hill, Pasco County, Florida, SAI #FL201801238241C

Dear Mr. Stahl:

Florida Fish and Wildlife Conservation Commission (FWC) staff has reviewed the above-referenced project and provides the following comments and recommendations for your consideration in accordance with Chapter 379, Florida Statutes (F.S.).

Project Description

SECI proposes to construct a BUCC to act as a long-term back-up facility for system operations and electric grid control for the SECI system and function as a business continuity center on an approximately 43-acre project site located at 14425 Softwind Lane, north of Hudson Avenue, and west of Softwind Lane. Approximately 10 acres of the project site will be developed for the BUCC and the site plan overlay shows potential future uses of the project site including Stormwater ponds and an electrical substation. The site contains approximately 18.08 acres of live oak, 12.43 acres of coniferous plantations, 11.11 acres of improved pastures, one fixed single-family unit, and two wetland systems described as sinkholes.

Potentially Affected Resources

On behalf of SECI, Golder Associates, Inc., has requested an environmental review by FWC staff for the proposed project. This early coordination request was for investigating any perceived potential impacts to state- or federally listed fish and wildlife species which may occur as a result of the project. This also served to identify potential avoidance and minimization measures that could ensure that the project does not adversely impact listed species in Pasco County.

Golder's preliminary review of the project indicated that the project area is located within the U.S. Fish and Wildlife Service (USFWS) Consultation Area for the Florida scrub-jay (*Aphelocoma coerulescens*, Federally Threatened [FT]) and within several wood stork (*Mycteria americana*, FT), Core Foraging Areas (CFAs). Several burrows of the gopher tortoise (*Gopherus polyphemus*, State Threatened [ST]) were observed within the project area and the short-tailed snake (*Stilosoma extenuatum*, ST), southeastern American kestrel (*Falco sparverius paulus*, ST), and two wading bird rookeries have been documented within one mile of the project. The applicant states that it intends to comply with the USFWS-approved *Standard Protection Measures for the Eastern Indigo Snake* (*Drymarchon corais couperi*, FT) (updated August 12, 2013).

In addition to the above information provided, FWC staff conducted a geographic information system (GIS) analysis of the project site. Based on this GIS analysis, the project site contains, is located near, within, or adjacent to:

- Potential habitat for sate- and federally listed species:
  - Florida pine snake (*Pituophis melanoleucus mugitus*, ST)

Comments and Recommendations

Gopher Tortoise

Due to the documented presence of gopher tortoises on site, we recommend that the applicant refer to the FWC's Gopher Tortoise Permitting Guidelines (Revised January 2017) (http://www.myfwc.com/license/wildlife/gopher-tortoise-permits/) for survey methodology and permitting guidance. Survey methodologies require a burrow survey covering a minimum of 15 percent of potential gopher tortoise habitat to be impacted by development activities including staging areas (refer to Appendix 4 in the Gopher Tortoise Permitting Guidelines for additional information). Specifically, the permitting guidelines include methods for avoiding impacts (such as preservation of occupied habitat) as well as options and state requirements for minimizing, mitigating, and permitting potential impacts of the proposed activities. Any commensal species observed during burrow excavation should be handled in accordance to Appendix 9 of the Gopher Tortoise Permitting Guidelines. If you have any questions regarding gopher tortoise permitting, please contact Kelly O'Connor by phone at (863) 648-3200 or at Kelly.OConnor@MyFWC.com.

Florida Pine Snake

Florida pine snakes have historically and recently occurred in this area, and suitable habitat may also occur onsite. Florida pine snakes are naturally secretive and adapted to digging and can spend up to 80 percent of their time in underground refuges like stump holes, gopher tortoise burrows, and the burrows of pocket gophers, nine-banded armadillos, and mice. Florida pine snakes are active from March through October but show the greatest activity in May, June, July, and October when they move more frequently and travel farther distances. Florida pine snakes are sensitive to habitat fragmentation and often negatively impacted by roadways. Additional information can be found in the Florida pine snake Species Action Plan on the FWC website at http://www.myfwc.com/wildlifehabitats/imperiled/species-action-plans/ and recommended conservation practices may be found in the draft Florida Pine Snake Guidelines (http://myfwc.com/media/4369542/8B-FloridaPineSnakeGuidelines.pdf). If a Florida pine snake is observed during the project, work activities should cease and the snake should be allowed to leave on its own accord. It would also contribute to FWC's research efforts if sightings could be reported to the staff member at the close of this letter and by email to Imperiled@MyFWC.com, preferably with a photograph and GPS coordinates.

Short-tailed Snake

Short-tailed snakes have historically occurred in the project area and suitable habitat may also occur onsite. Lands surrounding the Suncoast Parkway may also provide corridors for movement of this species. The short-tailed snake is endemic to Florida, only found from the Suwannee River south to Highlands County, primarily inhabiting areas with well-drained soils such as longleaf pine/xeric oak sandhills. Alterations to dry, sandy uplands on this project may impact the short-tailed snake. Short-tailed snake observations are rare since they are naturally secretive and adapted to digging and living underground much like the Florida pine snake. Additional information can be found in the *Short-tailed Snake Biological Status Review* on the FWC website at http://myfwc.com/media/2273397/Short-tailed-Snake-BSR.pdf. If a short-tailed snake is

observed during your project, work activities should cease and the snake must be allowed to leave on its own accord. It would also contribute to FWC's research efforts if sightings could be reported to the staff member at the close of this letter and by email to Imperiled@MyFWC.com, preferably with a photograph and GPS coordinates.

Southeastern American Kestrel

Suitable habitat for southeastern American kestrels may also be found within the proposed project area. FWC staff recommends that the applicant conduct kestrel surveys during their nesting season (April to August) within suitable habitat areas. Surveys from May to July are ideal to avoid confusion with the migratory subspecies of American kestrel (*Falco sparverius*). Survey guidelines, reporting criteria, and habitat needs for the southeastern American kestrel can be found within the FWCG at the following website: http://fwcg.myfwc.com/docs/American_Kestrel_Technical_Report.pdf. Recommended conservation actions may be found in *A Species Action Plan for the Southeastern America Kestrel* (http://myfwc.com/media/2738858/Southeastern-American-Kestrel-Species-Action-Plan-Final-Draft.pdf). If surveys encounter active nest cavities, we recommend avoiding project activities within 150 meters (492 feet) of the nest tree during the breeding season (mid-March to mid-June). If nesting is discovered after construction has begun or if maintaining the recommended buffer is not possible, we recommend that the applicant contact FWC staff identified below to discuss potential permitting needs. In areas of suitable kestrel habitat, we recommend retaining snags whenever possible.

We appreciate the opportunity to review the proposed project and look forward to working with the applicant throughout the permitting process. If you need any further assistance, please do not hesitate to contact our office by email at FWCConservationPlanningServices@MyFWC.com. If you have specific technical questions, please contact Christine Raininger at (561) 882-5811 or by email at Christine.Raininger@MyFWC.com.

Sincerely,

Fritz Wettstein

Fritz Wettstein
Land Use Planning Program Administrator
Office of Conservation Planning Services

fw/cr
ENV 1-3-2
Seminole Electric EMCC Backup Facility_35320_020718

cc: Veronica Robinson, FDEP, Veronica.L.Robinson@floridadep.gov
Michael Ward, MWard2@seminole-electric.com
Michael Lee, Seminole Electric Cooperative, Inc., MLee@seminole-electric.com
Christopher Weddle, Aurora Civil Engineering, Chris@auroracivil.com
Adam Zions, Golder Associates Inc., Adam_Zions@golder.com

CONSTRUCTION COMMENCEMENT NOTICE

Instructions: In accordance with Chapter 62-330.350(1)(d), F.A.C., complete and submit this form at least 48 hours prior to commencement of activity authorized by permit.

Permit No. _____ Application No. _____

Project Name _____ Phase _____

Construction of the system authorized by the above referenced Environmental Resource Permit and Application, is expected to commence on _____ , 20 _____ and will have an estimated completion date of _____ , 20 _____

PLEASE NOTE: If the actual construction commencement date is not known within 30 days of issuance of the permit, District staff should be so notified in writing. As soon as a construction commencement date is known, the permittee shall submit a completed construction commencement notice form.

Permittee's or Authorized Agent's Signature _____ Company _____

Print Name _____ Title _____ Date _____

E-mail _____ Phone Number _____

Reset Form Save & Print

OPERATION AND MAINTENANCE INSPECTION CERTIFICATION

Instructions: Submit this form to the Agency within 30 days of completion of the inspection after any failure of a stormwater management system or deviation from the permit. This form may also be used to document inspections required under Section 12.4 of Applicant's Handbook Volume I, however submittal to the Agency is not required unless requested by the Agency.

Permit No.: _____ Application No.: _____ Date Issued: _____

Identification or Name of Stormwater Management System: _____

Phase of Stormwater Management System (if applicable): _____

Inspection Date: _____

Inspection results: (check all that apply)

☐ The undersigned hereby certifies that the works or activities are functioning in substantial conformance with the permit. This certification is based upon on-site observation of the system conducted by me or my designee under my direct supervision and my review of as-built plans.

☐ The following maintenance was conducted since the last inspection (attach additional pages if needed):

_____

☐ The undersigned hereby certifies that I or my designee under my direct supervision has inspected this surface water management system and the system does not appear to be functioning in substantial conformance with the permit. I am aware that maintenance or alteration is required to bring the system into substantial compliance with the terms and conditions of the permit. As appropriate, I have informed the owner of the following:

(a) The system does not appear to be functioning properly;
(b) That maintenance or repair is required to bring the system into compliance; and
(c) If maintenance or repair measures are not adequate to bring the system into compliance, the system may have to be replaced or an alternative design constructed subsequent to approval by the agency below.

The following components of the system do not appear to be functioning properly (attach additional pages if needed):

_____

Any components of the constructed system that are not in substantial conformance with the permitted system shall require a written request to modify the permit in accordance with the provisions of Rule 62-330.315, F.A.C. If such modification request is not approved by the agency below, the components of the system that are not in conformance with the permit are subject to enforcement action under Sections 373.119, .129, .136, and .430, F.S.

Name of Inspector: _____ Florida Registration Number: _____

Company Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Fax: _____ Email: _____

_____ _____

Signature of Inspector Date

Report Reviewed by Permittee:

Name of Permittee: _____

_____ _____

Signature of Permittee Date

_____

Title (if any)

AS-BUILT CERTIFICATION AND REQUEST FOR CONVERSION TO OPERATION PHASE

Instructions: Complete and submit this page within 30 days of completion of the permitted activities, as required by the permit conditions. **Any components of the permitted activities that are not in substantial conformance with the permit must be corrected or a modification of the permit will be required in accordance with Rule 62-330.315, Florida Administrative Code (F.A.C.).** The operation phase of the permit is effective when the construction certification for the entire permit/application is approved by the Agency. If the final operation and maintenance entity is not the permittee, the permittee shall operate the system, works or other activities temporarily until such time as the transfer to the operation entity is finalized (use Form 62-330.310(2)).

Permit No.:	Application No(s).	Permittee:
Project Name:		Phase (if applicable):

I HEREBY CERTIFY THAT (please choose accurately and check only one box):

☐ I hereby notify the Agency of the completion of construction of all the components of the system, works or other activities for the above referenced project and certify that it has been constructed in substantial conformance with the plans specifications and conditions permitted by the Agency. Any minor deviations will not prevent the system from functioning in compliance with the requirements of Chapter 62-330, F.A.C. Attached is documentary evidence of satisfaction of any outstanding permit conditions, other than long term monitoring and inspection requirements.

☐ At the time of final inspection, the works or activities were NOT completed in substantial conformance with the plans and specifications permitted by the Agency. (The registered professional shall describe the substantial deviation(s) in writing, and provide confirming depiction on the as-built drawings and information.)

If there were substantial deviations, plans must be submitted clearly labeled as “as-built” or “record” drawings reflecting the substantial deviations. If there are no substantial deviations, do not submit “as built” drawings.

For activities that require certification by a registered professional:

By:

Signature | Print Name | Fla. Lic. or Reg. No

! AFFIX SEAL ! | Company Name

Company Address | Date

For activities that do not require certification by a registered professional:

By:

Signature | Print Name

Company Name

Company Address | Date

DRAWINGS AND INFORMATION CHECKLIST

Following is a list of information that is to be verified and/or submitted by the Registered Professional or Permittee:

1. All surveyed dimensions and elevations shall be certified by a registered Surveyor or Mapper under Chapter 472, F.S.

2. The registered professional's certification shall be based upon on-site observation of construction (scheduled and conducted by the registered professional of record or by a project representative under direct supervision) and review of as-built drawings, with field measurements and verification as needed, for the purpose of determining if the work was completed in accordance with original permitted construction plans, specifications and conditions.

3. If submitted, the as-built drawings are to be based on the permitted construction drawings revised to reflect any substantial deviations made during construction. Both the original design and constructed condition must be clearly shown. The plans need to be clearly labeled as "as-built" or "record" drawings that clearly highlight (such as through "red lines" or "clouds") any substantial deviations made during construction. As required by law, all surveyed dimensions and elevations required shall be verified and signed, dated and sealed by an appropriate registered professional. The following information, at a minimum, shall be verified on the as-built drawings, and supplemental documents if needed:

    a. Discharge structures - Locations, dimensions and elevations of all, including weirs, orifices, gates, pumps, pipes, and oil and grease skimmers;
    b. Detention/Retention Area(s) – Identification number, size in acres, side slopes (h:v), dimensions, elevations, contours or cross-sections of all, sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems,
    c. Side bank and underdrain filters, or exfiltration trenches - locations, dimensions and elevations of all, including clean-outs, pipes, connections to control structures and points of discharge to receiving waters;
    d. System grading - dimensions, elevations, contours, final grades or cross-sections to determine contributing drainage areas, flow directions and conveyance of runoff to the system discharge point(s);
    e. Conveyance - dimensions, elevations, contours, final grades or cross-sections of systems utilized to divert off-site runoff around or through the new system;
    f. Benchmark(s) - location and description (minimum of one per major water control structure);
    g. Datum- All elevations should be referenced to a vertical datum clearly identified on the plans, preferably the same datum used in the permit plans.

4. Wetland mitigation or restoration areas - Show the plan view of all areas, depicting a spatial distribution of plantings conducted by zone (if plantings are required by permit), with a list showing all species planted in each zone, numbers of each species, sizes, date(s) planted and identification of source of material; also provide the dimensions, elevations, contours and representative cross-sections depicting the construction.

5. Any additional information or outstanding submittals required by permit conditions or to document permit compliance, other than long-term monitoring or inspection requirements.

REQUEST FOR TRANSFER OF ENVIRONMENTAL RESOURCE PERMIT TO THE PERPETUAL OPERATION ENTITY

Instructions: Complete this form to transfer to the permit to the operation and maintenance entity. This form can be completed concurrently with, or within 30 days of approval of the As-Built Certification and Request for Conversion to Operation Phase (Form 62-330.310(1)). Please include all documentation required under Section 12.2.1(b) of Applicant's Handbook Volume 1. (see checklist below). **Failure to submit the appropriate final documents will result in the permittee remaining liable for operation and maintenance of the permitted activities.**

Permit No.:	Application No(s).
Project Name:	Phase (if applicable):

A. REQUEST TO TRANSFER: The permittee requests that the permit be transferred to the legal entity responsible for operation and maintenance (O&M).

By: _____

Signature of Permittee	Name and Title
Company	Company Address
Phone	City, State, Zip

B. AGREEMENT FOR SYSTEM OPERATION AND MAINTENANCE RESPONSIBILITY: The below-named legal entity agrees to operate and maintain the works or activities in compliance with all permit conditions and provisions of Chapter 62-330, Florida Administrative Code (F.A.C.) and Applicant's Handbook Volumes I and II in perpetuity. Authorization for any proposed modification to the permitted activities shall be applied for and obtained prior to conducting such modification.

By: _____

Signature of Representative of O&M Entity	Name of Entity for O&M
Name and Title	Address
Email Address	City, State, Zip
Phone	Date

Enclosed are the following documents, as applicable:

☐ Copy of recorded transfer of title to the operating entity for the common areas on which the stormwater management system is located (unless dedicated by plat)
☐ Copy of all recorded plats
☐ Copy of recorded declaration of covenants and restrictions, amendments, and associated exhibits
☐ Copy of filed articles of incorporation and documentary evidence of active corporate status with the Department of State, Division of Corporations (for corporations)
☐ A completed, signed, and notarized affidavit attesting that the operating entity meets the requirements of Section 12.3 of Environmental Resource Permit Applicant's Handbook Volume I.(Note- this is optional, but aids in processing of this request)

REQUEST TO TRANSFER PERMIT

Instructions: Submit this form to the Agency within 30 days after any transfer of ownership or control of the real property where the permitted activity is located.

Note: Use of this form is not required when a valid permit is in the operation and maintenance phase. In such case, the owner must notify the Agency in writing within 30 days of a change in ownership or control of the entire real property, project, or activity covered by the permit. The notification may be letter, e-mail, or using this form, sent to the office that issued the permit. A processing fee is not required for this notice. The permit shall automatically transfer to the new owner or person in control, except in cases of abandonment, revocation, or modification of a permit as provided in Sections 373.426 and 373.429, F.S. (2012). If a permittee fails to provide written notice to the Agency within 30 days of the change in ownership or control, or if the change does not include the entire real property or activity covered by the permit, then the transfer must be requested using this form.

Permit No.: _____ Application No(s).: _____ Date Issued: _____

Identification or Name of Surface Water Management System: _____

Phase of Surface Water Management System (if applicable): _____

PART 1: PROPOSED PERMIT HOLDER

The undersigned hereby notifies the Agency that I have acquired ownership or control of the land on which the permitted system is located through the sale or other legal transfer of the land. By signing below, I hereby certify that I have sufficient real property interest or control in the land in accordance with subsection 4.2.3 (d) of Applicant's Handbook Volume I; attached is a copy of my title, easement, or other demonstration of ownership or control in the land, including any revised plats, as recorded in the Public Records. I request that the permit be modified to reflect that I agree to be the new permittee. By so doing, I acknowledge that I have examined the permit terms, conditions, and drawings, and agree to accept all rights and obligations as permittee, including agreeing to be liable for compliance with all of the permit terms and conditions, and to be liable for any corrective actions required as a result of any violations of the permit after approval of this modification by the Permitting Agency. Also attached are copies of any recorded restrictive covenants, articles of incorporation, and certificate of incorporation that may have been changed as a result of my assuming ownership or control of the lands. As necessary, I agree to furnish the Agency with demonstration that I have the ability to provide for the operation and maintenance of the system for the duration of the permit in accordance with subsection 12.3 of Applicant's Handbook Volume I.

Name of Proposed Permit Holder: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone: _____ Fax: _____ E-mail: _____

Signature of Proposed Permittee _____ Date _____

Title (if any) _____

PART 2: RESPONSIBLE REGISTERED PROFESSIONAL

Name of Registered Professional who will be responsible for system inspections and reporting as required by Chapter 62-330, F.A.C. (if applicable): _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone: _____ Fax: _____ E-mail: _____

Enclosures:
☐ Copy of recorded transfer of title for surface water management system
☐ Copy of plat(s)
☐ Copy of recorded restrictive covenants, articles of incorporation, and certificate of incorporation
☐ Other _____