

February 16, 2024

Ms. Cindy Mulkey
Siting Coordination Office
2600 Blair Stone Road, MS 3500
Tallahassee, FL 32399-2400

Re: Site Certification Amendment Request for Water Sharing Project for
Gainesville Regional Utilities Deerhaven Generating Station PA74-04J

Dear Ms. Mulkey,

Gainesville Regional Utilities (GRU) is proposing the construction of a pumping and piping system to share water burdens of both the Deerhaven (DH) and Deerhaven Renewables (DHR) generating facilities. These facilities are adjacent to each other with no interceding property. To facilitate this project we are requesting an amendment to the Site Certification for the Deerhaven Generating Station.

Project Description

As both facilities exist today, the water systems operate separately with no interconnections. The purpose of this project is to allow for exchange of process water between the two generating facilities, while still maintaining the Zero Liquid Discharge status for the overall combined site.

For cooling tower makeup, treated ground water from the DH Process Plant cold lime softening system will be supplied to the DHR cooling tower water system. This will provide an alternate source of cooling tower water supply with reduced scaling properties. Reduced scaling properties allow for increased cycles of concentration thereby reducing blowdown and chemical additive utilization. Additionally, water-cooled components experience reduced fouling and operate more efficiently, reducing the costs and environmental impacts associated with power production.

The process water reuse systems will be interconnected so that either site may treat process water and provide re-use water to the other. This provides flexibility when either plant is in a forced or maintenance outage to have a means to treat process water and allow for more efficient use of the containment systems. By interconnecting the systems, the available surge capacity is increased even though no additional containment ponds are being constructed. Since these ponds also receive storm water, the available capacity is impacted by the amount of rainfall. Having this flexibility reduces risk associated with extreme weather events. It also allows for optimization of brine concentrator processing capacity at both facilities meaning containment levels can be reduced faster by maximizing both system's throughput. A system may be taken out of service when water processing demand is low. Temporarily shutting down these systems when not needed for production will reduce chemical additive utilization, wear & tear on the equipment, and reduce resource consumption required to run the systems.

Project NotesConstruction:**Please see included design construction prints and layout.**

Primary work will be the construction of a pumping header whose source water is the Cooling Tower Makeup Tank discharge piping. This tie-in will be underground and constructed with CS pipe. The discharge of the pump header will be 10" HDPE pipe. This pipe (CTMW) will travel to the DH property line with the DHR (at the DHR south gate). Please see simplified project overview drawing (included with this mailing) for piping pathway.

The project calls for a maximum of 900 feet of 10" HDPE pipe underground on the DH site. The pathway for underground HDPE pipe will be horizontally drilled. The total path length of the CTMW will be 4000 ft maximum from pumps to the DHR South Gate. Above surface piping will be supported by sinusoidal sleeper foundations sized to the pipe diameter.

The construction of the pipe which will deliver DH surface impoundment water to the DHR plant (PPW) will have 6" HDPE piping supported by sinusoidal sleeper foundations. This pipe will travel a maximum of 620 ft underground along the same path as CTMW (from DHR South Gate to existing pipe ASW 37 (PVC) tie-in). The source water for this system will be ASW 37 which delivers process reuse water to the DH cold lime softening system. Total length of the PWW will be a maximum of 2000 feet from the ASW 37 tie-in (just south of the Deerhaven Used Process Water Impoundment System) to the DHR South Gate. Above surface piping will be supported by sinusoidal sleeper foundations sized to the pipe diameter.

There will be a 'wye' off the PWW line (starting inside the DHR property) which will be source water for transporting Used Process Water from DHR to the DH Used Process Water Impoundments via the Landfill Underdrain Canal pumping system. This line will be 6" HDPE and tie-in to the existing pump header at the Landfill Underdrain Canal pumping system. Existing underground piping will carry the DHR Used Process Water to the DH impoundment system. This line will be a maximum of 100 ft with no underground passage.

Environmental and Local Impacts:

GRU certifies that the following are true and verifiable:

Gopher Tortoise Habitat Impacts -The area where piping and support structures will be constructed has been thoroughly inspected and found to have no gopher tortoise burrows or tortoises.

Stormwater Impacts - Construction will have no impact on stormwater runoff, collection, conveyances or impoundments. No dewatering of any ponds or conveyances is required for construction.

Water Usage/Discharge Impacts - No liquid discharges as of result of construction or operation are anticipated. The new construction will maintain zero liquid discharge for each facility and the interconnecting piping. No additional ground water will be required as a result of new system operation.

Roadways Impacts - No impacts on federal, state or county roadways are anticipated as a result of construction or operation.

Business Impacts - No impacts on local business by construction or operation are anticipated.

Fish and Wildlife Impacts - No impacts on fisheries or land habitats are anticipated as a result of construction and operation.

Local Authority - No environmental impacts are anticipated by the construction or operation of the new system. No impacts to local citizenry, business, watersheds or greenspaces are anticipated.

If you have any questions or require additional information you reach me at (352) 538-7143, (352)-393-1299, and embryrg@gru.com. GRU appreciates your consideration of this request and look forward to your response.

Sincerely,



Regina Embry
Principal Engineer



HDPE PIPING INSTALLATION

WATER SHARE DEERHAVEN RENEWABLE ENERGY PLANT AND DEERHAVEN GENERATION PLANT GAINESVILLE, FLORIDA



VICINITY MAP
SCALE: 1"=2,000'

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- G-003 OVERALL SITE LAYOUT

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- C-102 PLAN AND PROFILE
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- C-201 CTMW TO RAW WATER TANK PLAN AND SECTION
- C-202 WASTEWATER TANK PLAN AND SECTION
- C-203 WASTEWATER TANK PUMP STATION DETAILS
- C-204 ASH CANAL PUMP STATION DETAILS
- C-300 SPECIFICATIONS AND DETAILS
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- S-101 STRUCTURAL PEDESTAL SUPPORT DETAIL
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Electrical

- E-100 ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS
- E-101 ELECTRICAL DH CTMW PUMP STATION PLAN
- E-102 ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULE
- E-103 ELECTRICAL DETAILS
- E-104 ELECTRICAL DETAILS

Contacts:

OWNER:
ALLISON GRIFFIN
ENGINEER IV
MAJOR MAINTENANCE GROUP
GAINESVILLE REGIONAL UTILITIES
MAIL: PO BOX 147117
GAINESVILLE FL 32614
MAIL CODE 518
DELIVERY: 10001 NW 13 STREET,
GAINESVILLE, FL 32653
OFFICE: (352) 393-6178
CELL: (321) 591-0991
email: griffinaw@gro.com

ENGINEER:
DEWBERRY
REINARDO MALAVE P.E.
800 NORTH MAGNOLIA AVENUE
SUITE 1000
ORLANDO, FL 32803
PH: (321) 354-9656
rmalave@dewberry.com

SUBMITTAL	
☐ PRELIMINARY	
☐ APPROVAL	
☒ RECORD	
☐ CONSTRUCTION	
☐ REVISION	
☐ RECORD	
SET NUMBER	

SIGNATURE BLOCK	
DH OPS	
DH OPS	
LAB	
ELECTRICAL PLANT ENG	
MECHANICAL PLANT ENG	
ENV DESPT	
DOP	
DPAS	



Dewberry Engineers Inc.
One Dewberry Center
Suite 1000
Orlando, FL 32803
407.403.1100

WATER SHARE
DEERHAVEN RENEWABLE ENERGY PLANT
DEERHAVEN GENERATION PLANT
GAINESVILLE, FLORIDA
32653



REVISION

SCALE
0' 2000' 4000'
SCALE: 1" = 2000'

REVISIONS	
NO.	DESCRIPTION
1	CTMW # 10 10' RESIZE
2	ON SITE COMMENTS
3	FINAL REVIEW

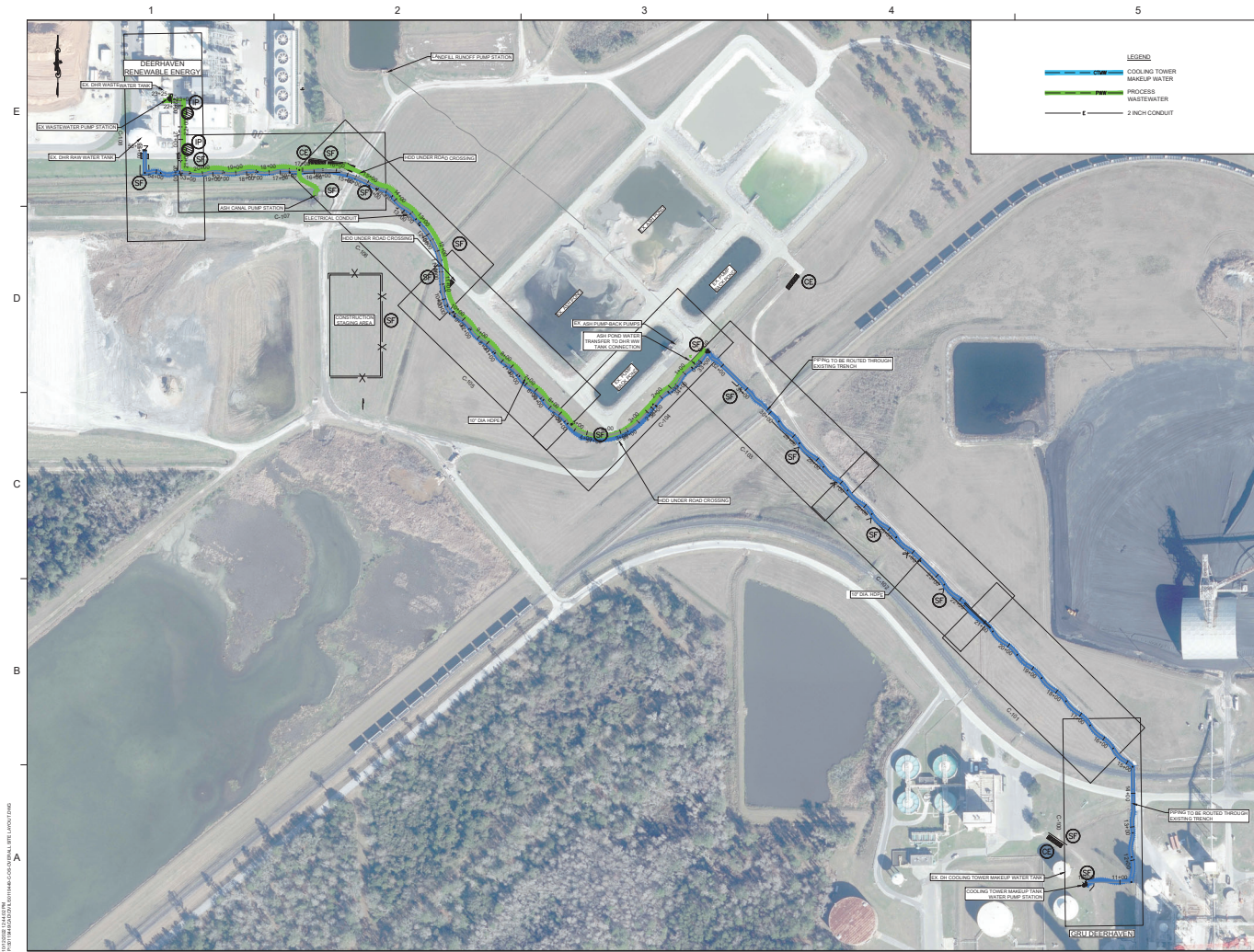
DRAWN BY: TMSB
APPROVED BY: JMM
CHECKED BY: JMM
DATE: OCTOBER 21, 2022

COVER SHEET

PROJECT NO. 5811040

G-001

SHEET NO.



Dewberry Engineers Inc.
10000 N. 15th Avenue
Suite 100
Gainesville, FL 32609
813.351.1100

**WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
OVERALL SITE LAYOUT**
32853

SEAL
I hereby certify that
I am a duly Licensed Professional Engineer in the State of Florida.
My Florida License No. is 15000-0000.
My expiration date is 12/31/2025.
My signature is on file with the State of Florida.
10/20/2022

REVISIONS

NO.	DESCRIPTION	DATE
1	FINAL REVIEW	10/21/2022
2	CLIENT COMMENTS	10/21/2022
3	CLIENT COMMENTS	10/21/2022
4	CLIENT COMMENTS	10/21/2022
5	CLIENT COMMENTS	10/21/2022
6	CLIENT COMMENTS	10/21/2022
7	CLIENT COMMENTS	10/21/2022
8	CLIENT COMMENTS	10/21/2022
9	CLIENT COMMENTS	10/21/2022
10	CLIENT COMMENTS	10/21/2022

SCALE
1" = 100'

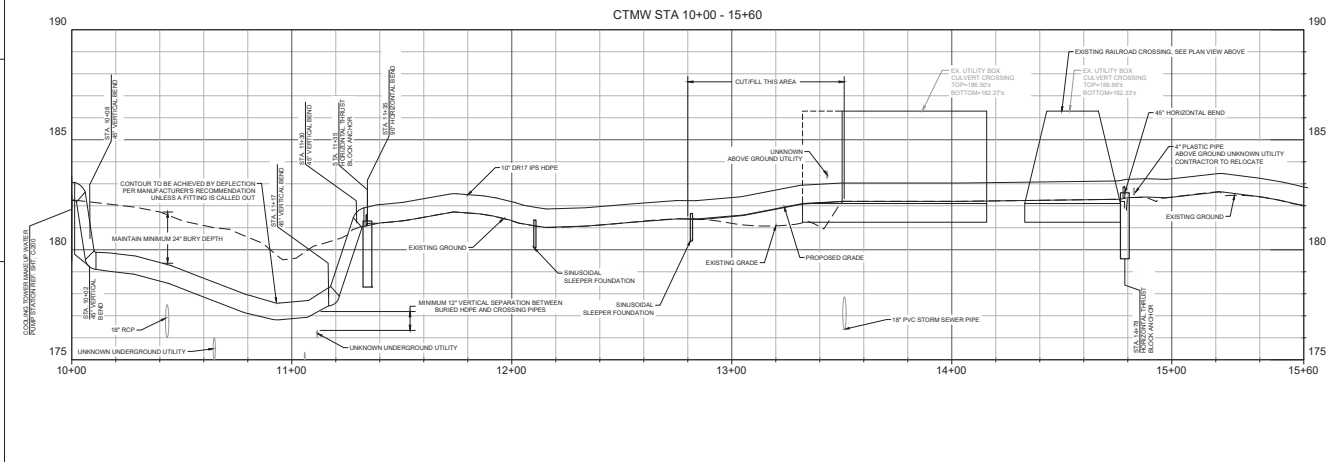
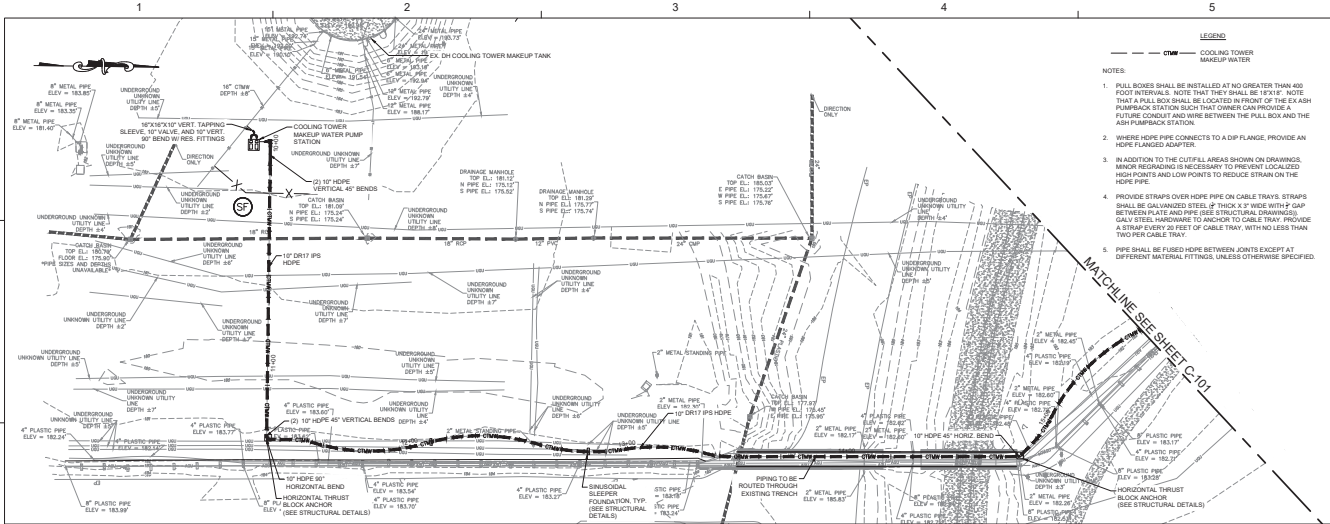
TITLE
OVERALL SITE LAYOUT

PROJECT NO. 8110648

G-003

SHEET NO.

10/20/2022 10:44:29 AM
PROJECT: WASHINGTON STATE WATER TREATMENT PLANT



Dewberry Engineers Inc.

10001 NW 13TH ST.
GAINESVILLE, FLORIDA 32653

WATER SHARE
DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
10001 NW 13TH ST.
GAINESVILLE, FLORIDA 32653



REVISION

SCALE:
HORIZ: 1"=20'
VERT: 1"=2'

NO.	DESCRIPTION	DATE
1	FINAL REVIEW	8/11/21
2	CONTRACT COMMENTS	7/1/21
3	CTMW #1 TO 12" RUMBLEBOX	6/2/21

DRAWN BY: TBC

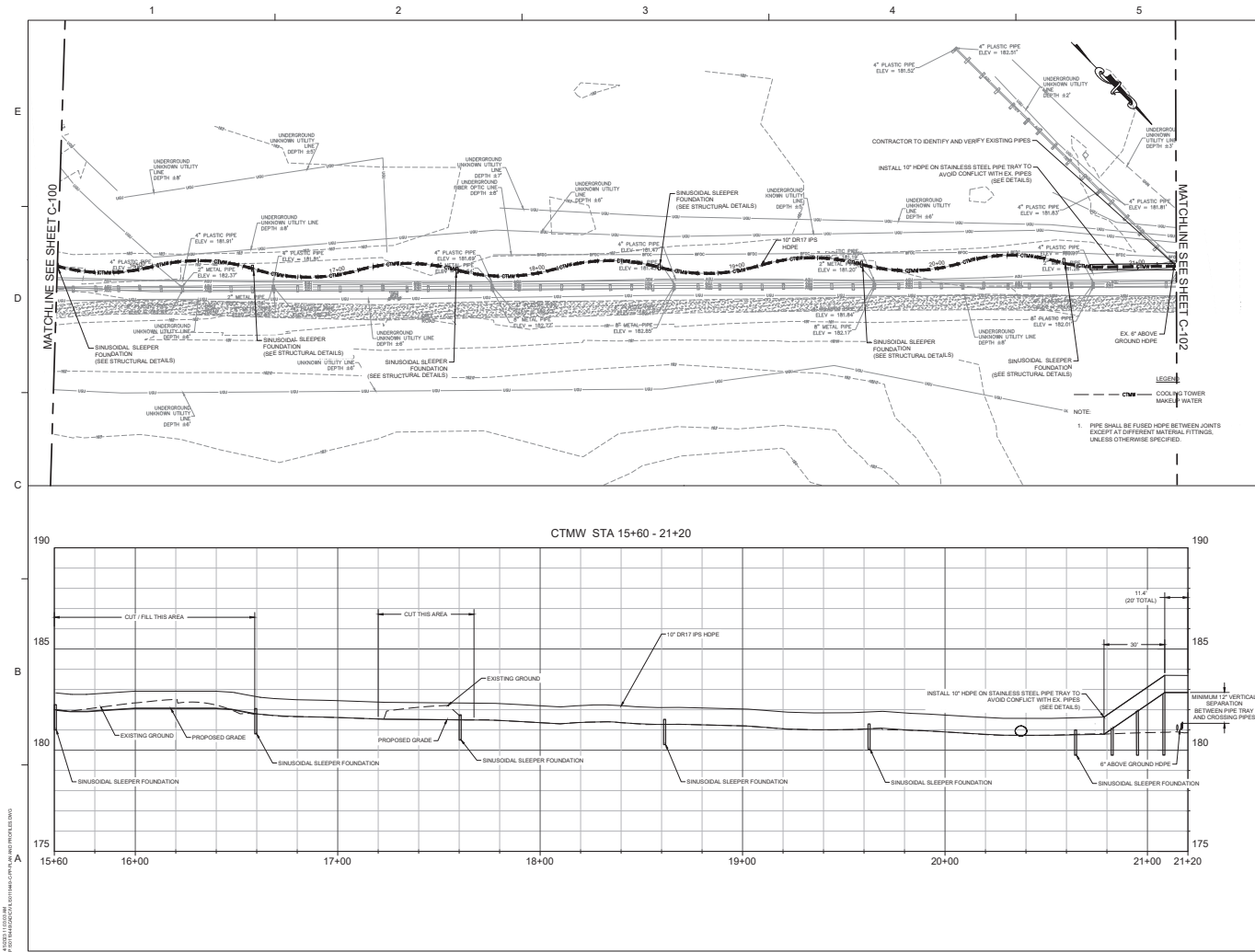
CHECKED BY: JLM

DATE: OCTOBER 21, 2022

TITLE: PLAN AND PROFILE

PROJECT NO.: 8910648

SHEET NO.: C-100



Dewberry Engineers Inc.
2000 NW 13th St.
Gainesville, FL 32653
817.261.1100

**WATER SHARE DEERHAVEN
WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
10001 NW 13TH ST.
GAINESVILLE, FLORIDA 32653**

SEAL

REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA
NO. 12500
EXPIRATION DATE 12/31/2024

REVISIONS

NO.	DESCRIPTION	DATE
1	CTMW # 10 TO 12' ABOVE GROUND	08/03/22
2	ON SITE COMMENTS	7/15/22
3	FINAL REVIEW	8/11/22

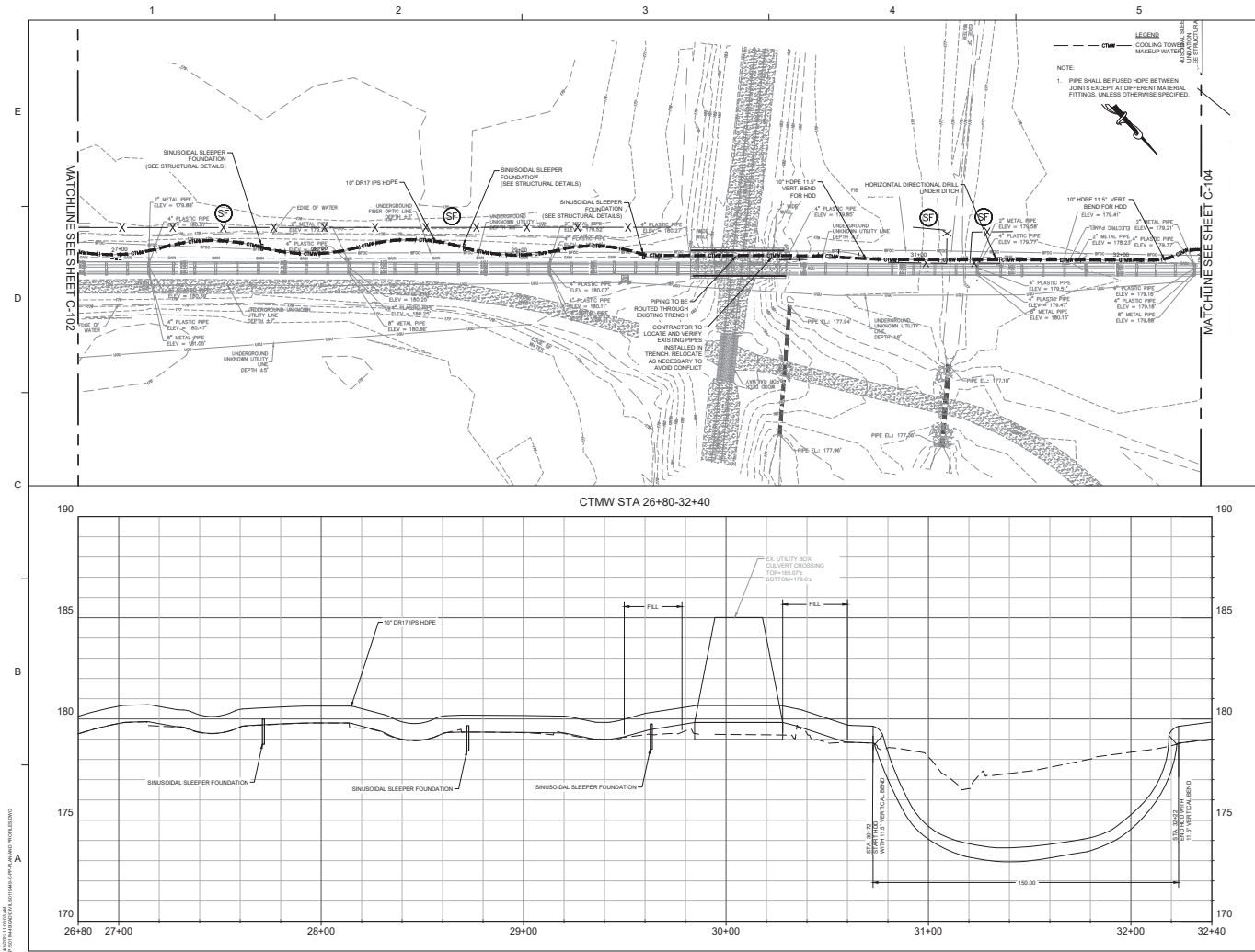
SCALE

1" = 20'
HORIZ. 1" = 50'

PLAN AND PROFILE

PROJECT NO. 8910648

SHEET NO.



Dewberry
Dewberry Engineers Inc.
2000 N. W. 13th St.
Gainesville, FL 32605
813.351.1000
www.dewberry.com

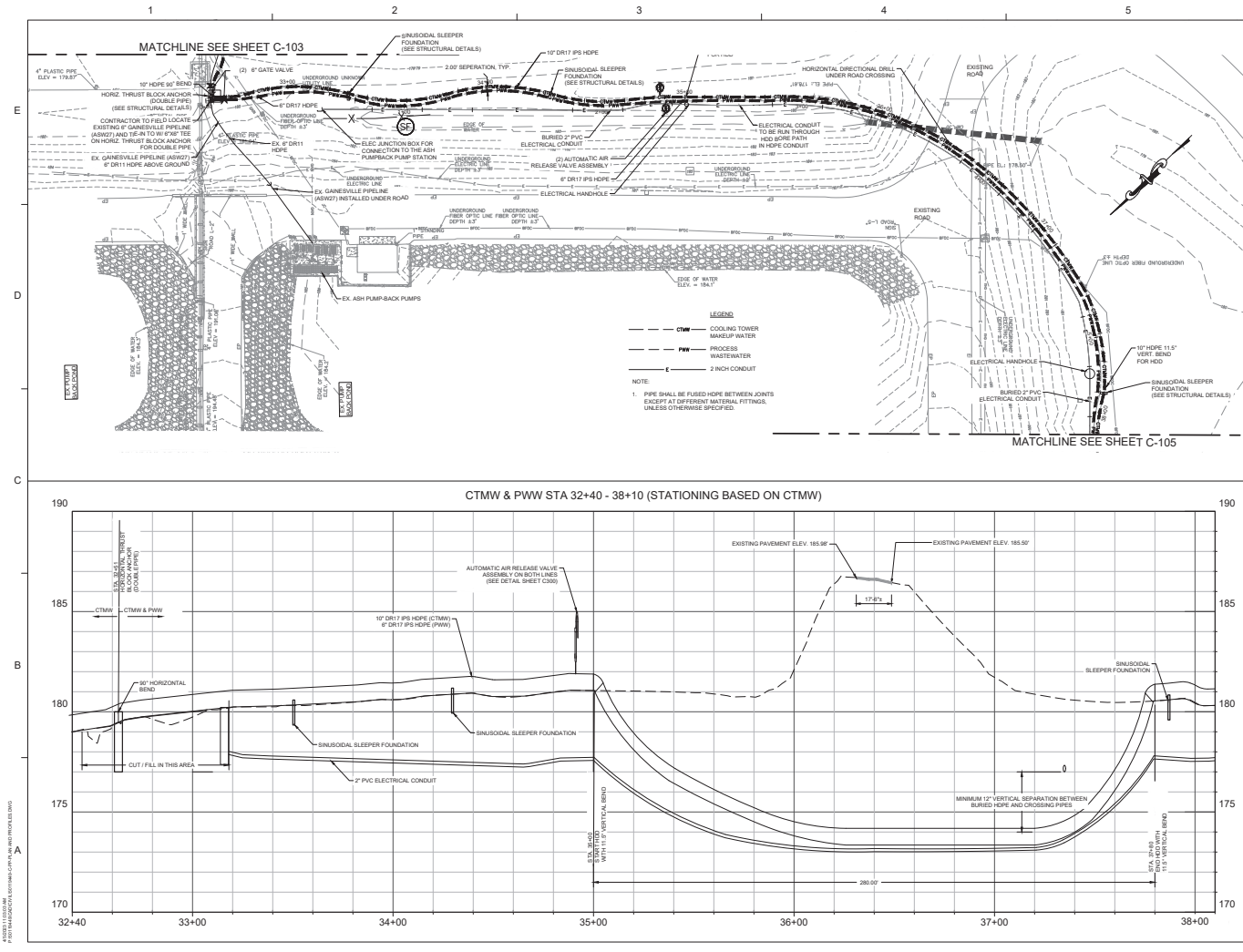
**WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
10001 NW 13TH ST.
GAINESVILLE, FLORIDA 32653**

PLAN
SCALE: 1" = 20'
HORIZ. 1" = 20'
VERT. 1" = 20'

REVISIONS

NO.	DESCRIPTION	DATE
1	FINAL REVIEW	8/11/2021
2	CONTRACT COMMENTS	7/1/2022
3	CTMW # 10 TO 10' RESIZE	6/20/22

PLAN
DRAWN BY: TBC
APPROVED BY: JLM
CHECKED BY: JLM
DATE: OCTOBER 21, 2022
TITLE: PLAN AND PROFILE
PROJECT NO.: 58110440
C-103
SHEET NO.



Dewberry Engineers Inc.
1000 NW 13th St.
Gainesville, FL 32653

**WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT**
10001 NW 13TH ST.
GAINESVILLE, FLORIDA 32653

REAL

REVISION

NO.	DESCRIPTION	DATE
1	CTMW & PWW TO 10' RESERVE	8/2/22
2	ON SITE COMMENTS	7/2/23
3	FINAL REVIEW	8/1/23

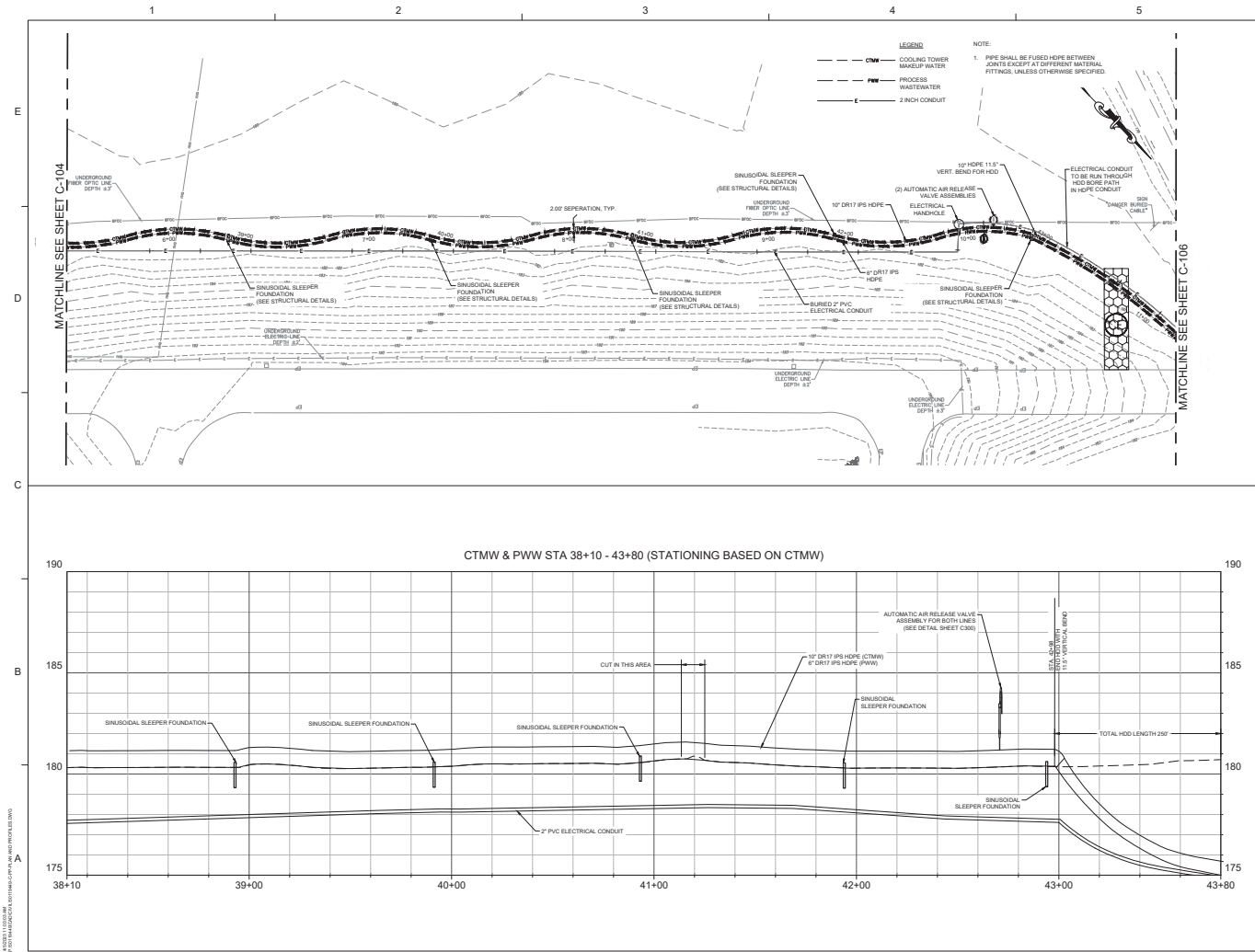
DRAWN BY: TJB/C
APPROVED BY: JRM
CHECKED BY: JRM
DATE: OCTOBER 21, 2022

TITLE: **PLAN AND PROFILE**

PROJECT NO.: 8910648

C-104

SHEET NO.



Dewberry Engineers Inc.
2000 N. Highway 100
Suite 100
Gainesville, FL 32601
817.261.1100

WATER SHARE
WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
10001 NW 13TH ST.
GAINESVILLE, FLORIDA 32653

SEAL

REVISION

NO.	DESCRIPTION	DATE
1	CTMW & PWW	10/21/2022

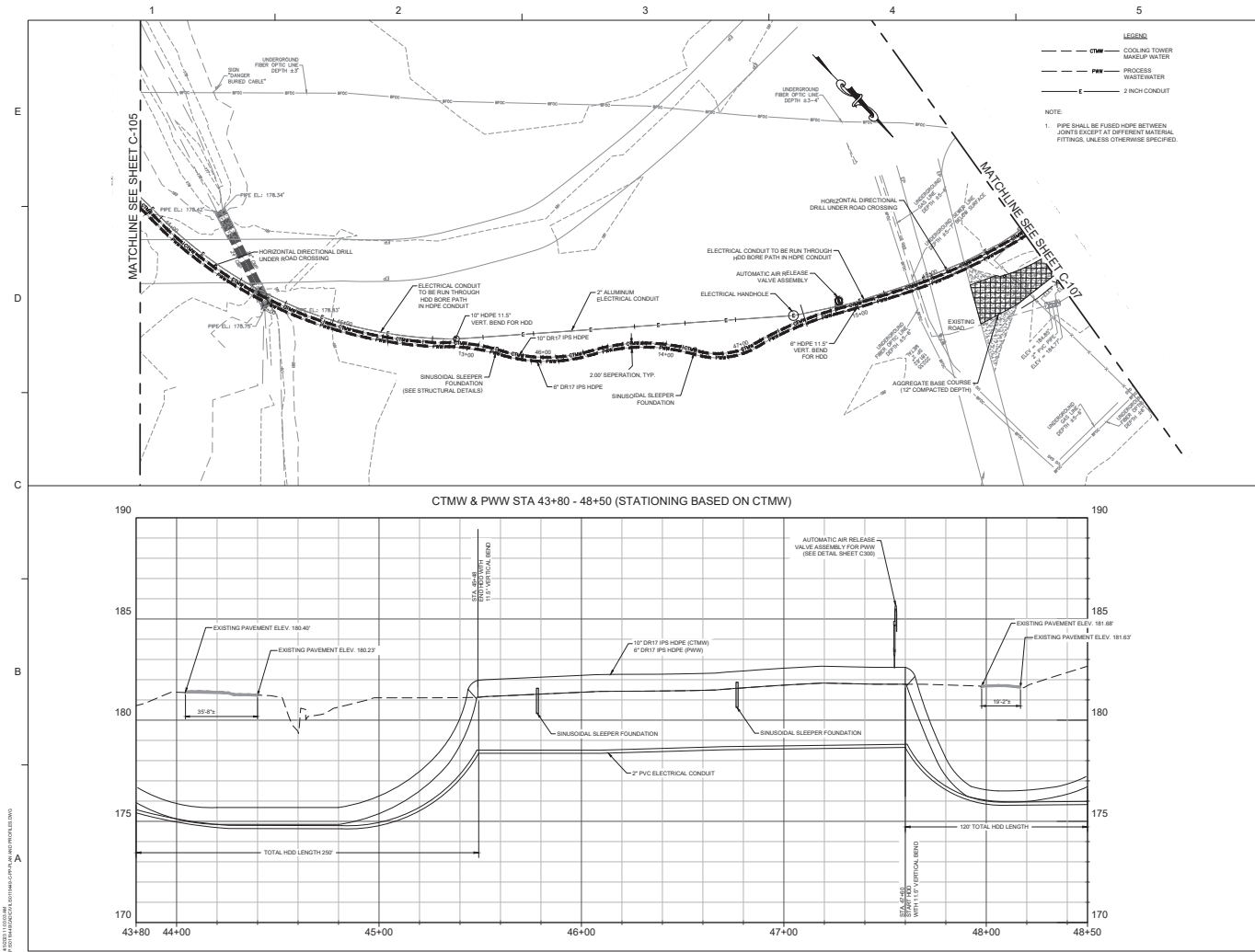
SCALE

VERTICAL: 1" = 20'
HORIZONTAL: 1" = 50'

REVISIONS

NO.	DESCRIPTION	DATE
1	CTMW & PWW	10/21/2022

DRAWN BY: TSMC
APPROVED BY: JSM
CHECKED BY: JSM
DATE: OCTOBER 21, 2022
TITLE: PLAN AND PROFILE
PROJECT NO.: 8810648
SHEET NO.: C-105



Dewberry Engineers Inc.
1000 NW 13th St.
Gainesville, FL 32653
817.433.1100

WATER SHARE
WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
10001 NW 13TH ST.
GAINESVILLE, FLORIDA 32653

SEAL

RET PLAN

SCALE

REVISIONS

NO.	DESCRIPTION	DATE
1	CTMW & PWW	10/21/2022
2	CTMW & PWW	10/21/2022
3	FINAL REVIEW	10/21/2022

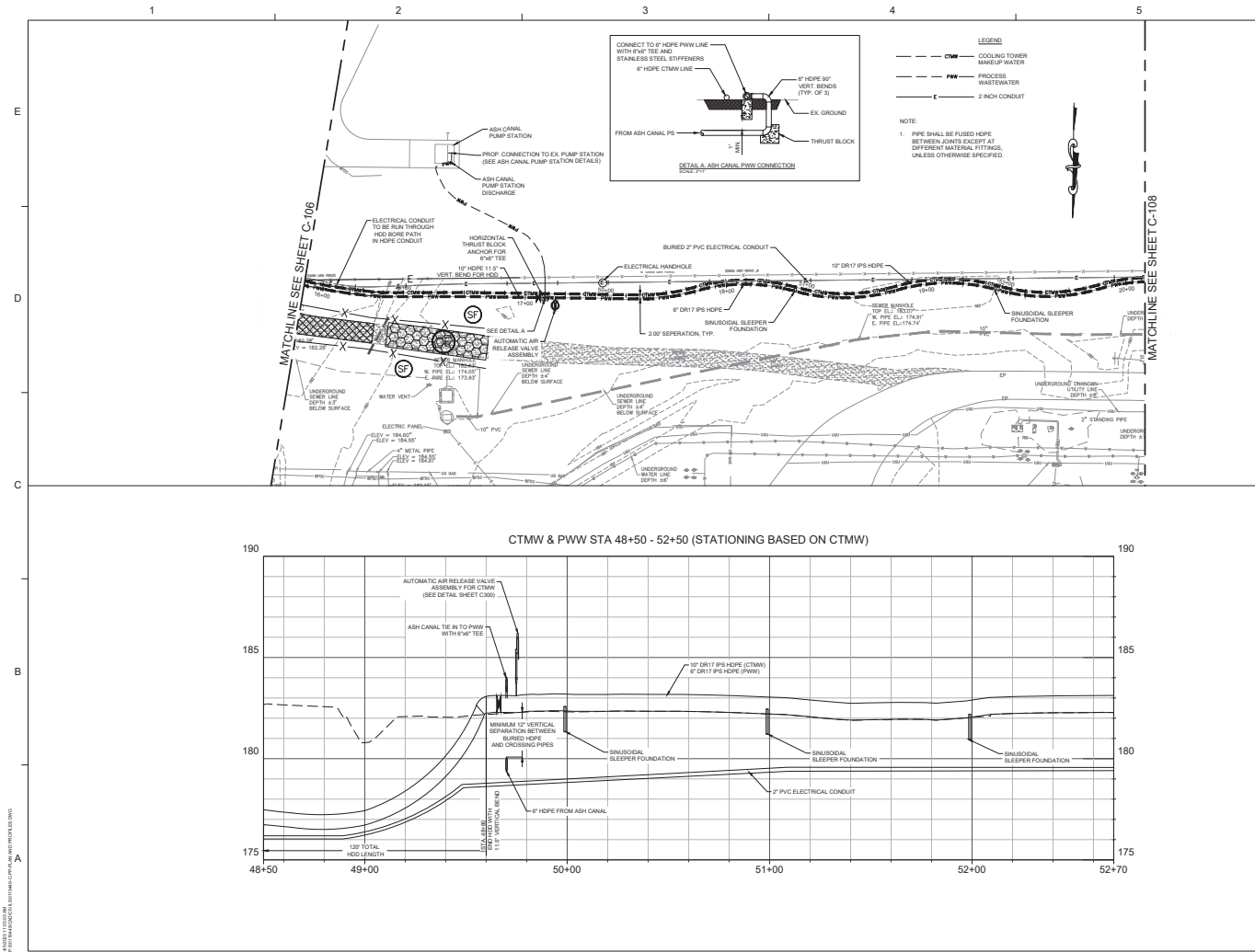
DRAWN BY: TSSC
APPROVED BY: JRM
CHECKED BY: JRM
DATE: OCTOBER 21, 2022

TITLE
PLAN AND PROFILE

PROJECT NO. 58110440

C-106

SHEET NO.



Dowberry Engineers Inc.
2000 NW 13th St.
Gainesville, FL 32603
Phone: 352.333.1100
Fax: 352.333.1101
www.dowberry.com

WATER SHARE
WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
10001 NW 13TH ST.
GAINESVILLE, FLORIDA 32653

SEAL

REV. PLAN

SCALE

1" = 20'

1" = 20'

1" = 20'

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	08/11/22
2	REVISED PER COMMENTS	09/01/22
3	FINAL REVIEW	09/15/22

DRAWN BY: TSC

CHECKED BY: JMW

DATE: OCTOBER 21, 2022

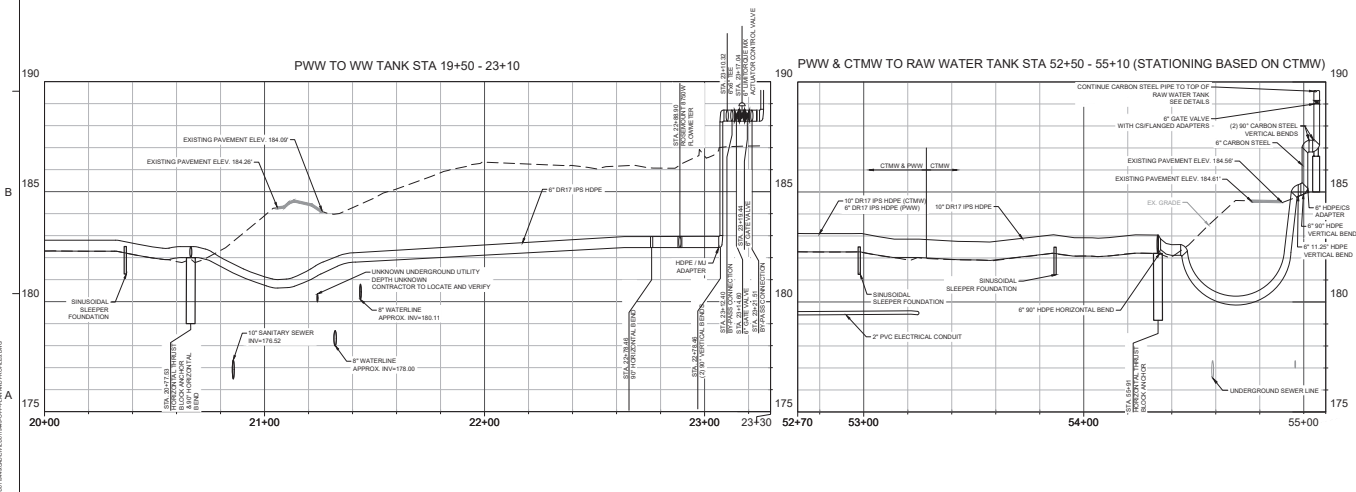
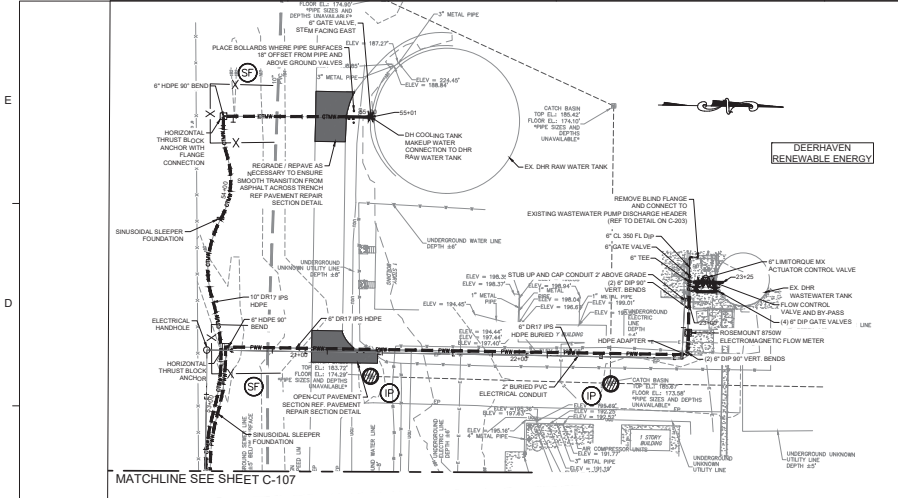
TITLE: **PLAN AND PROFILE**

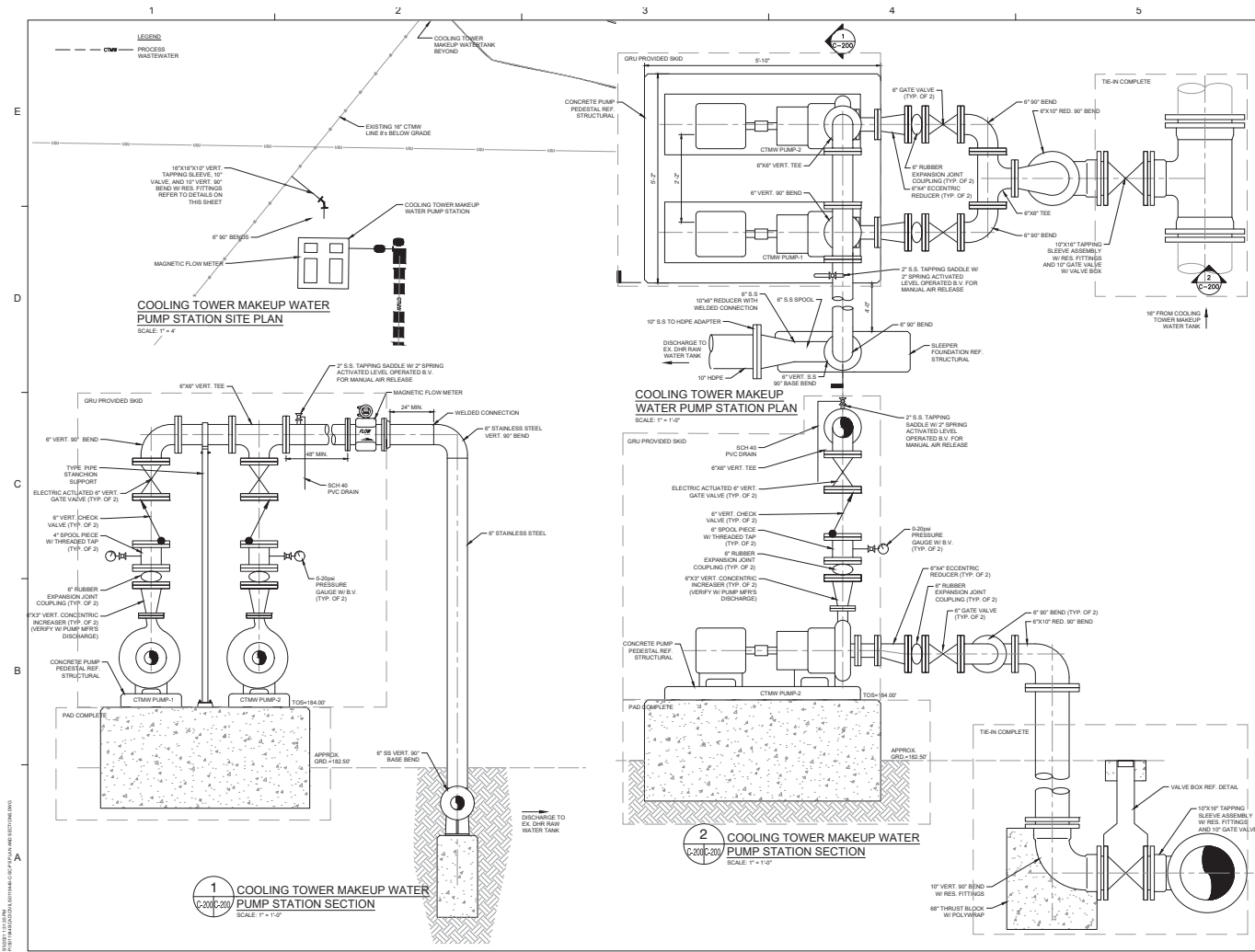
PROJECT NO.: 58110440

C-107

SHEET NO.

1 2 3 4 5





Dewberry Engineers Inc.
800 N. Highway 100
Suite 100
Gainesville, FL 32601
817.261.1000

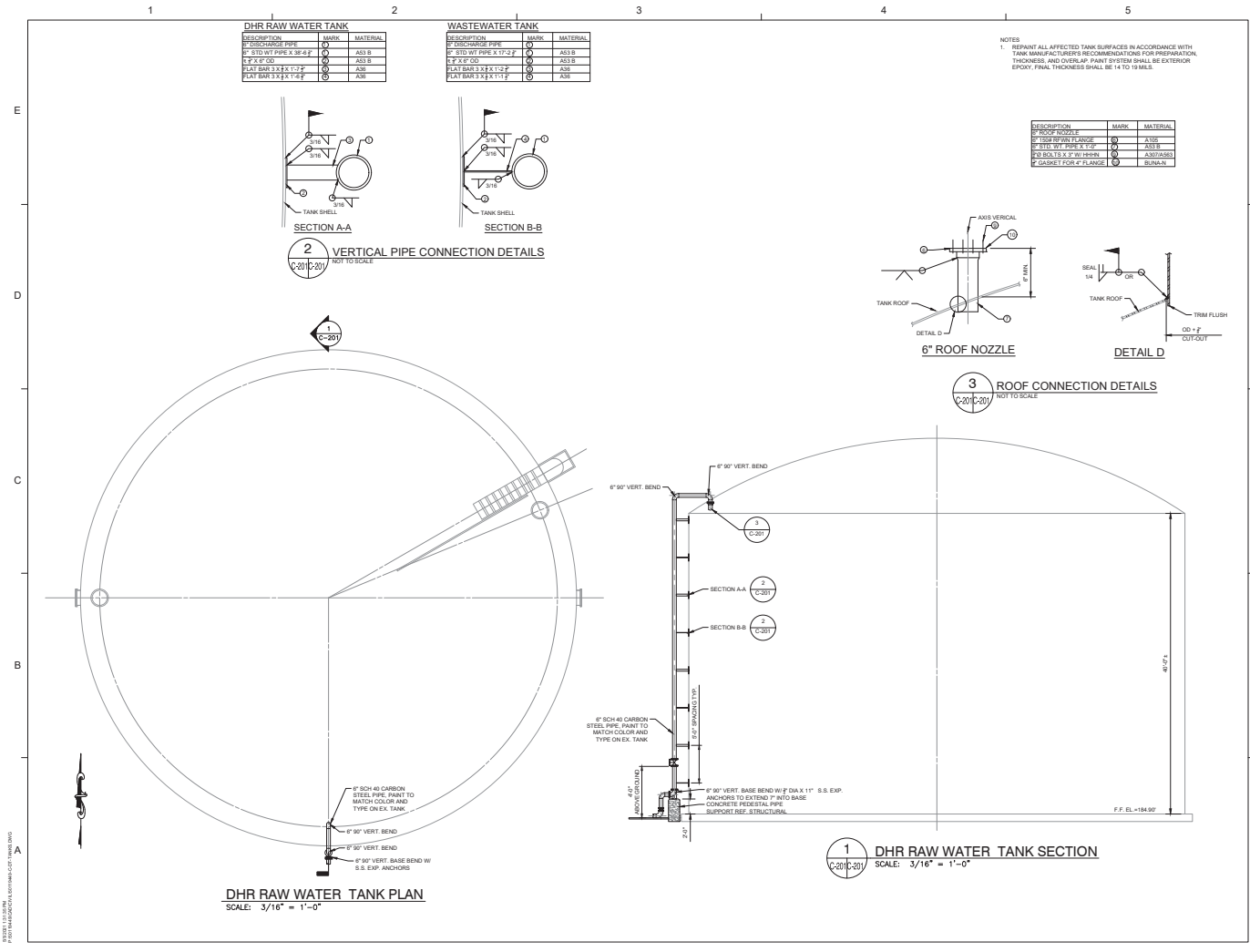
WATER SHARE
WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
GAINESVILLE, FLORIDA
32653

REVISIONS

NO.	DESCRIPTION	DATE
1	FINAL REVIEW	8/1/2021
2	CLIENT COMMENTS	7/1/2021
3	CTMW # 1 TO 12 RESIZES	6/22/21

APPROVED BY **TYPE**
CHECKED BY
DATE
TITLE **COOLING TOWER MAKEUP WATER PUMP STATION DETAILS**
PROJECT NO. **SSI 10448**

C-200



Dowberry

Dowberry Engineers Inc.
1000 N. Highway 100
Suite 100
Gainesville, FL 32601
817.261.1100

**WATER SHARE DEERHAVEN
WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
DEERHAVEN, FLORIDA
32653**

SEAL

REVISIONS

NO.	DESCRIPTION	DATE
1	FINAL REVIEW	8/1/2021
2	FINAL REVIEW	7/1/2021
3	FINAL REVIEW	6/1/2021

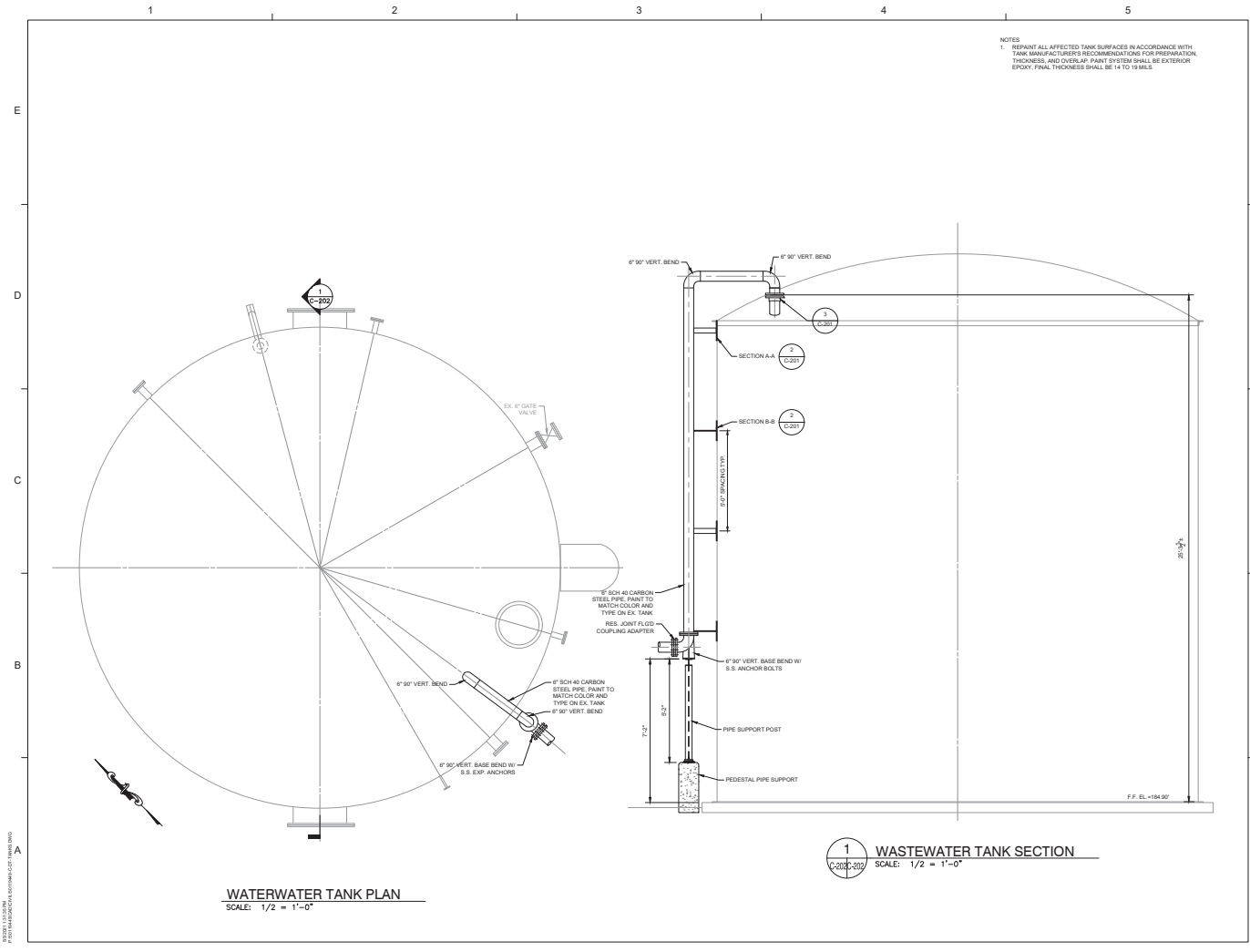
DRAWN BY JMC
APPROVED BY JMC
CHECKED BY JMC
DATE OCTOBER 21, 2022

TITLE CTMW TO RAW WATER TANK PLAN AND SECTION

PROJECT NO. 5910648

C-201

SHEET NO.



NOTES
1. REPAINT ALL AFFECTED TANK SURFACES IN ACCORDANCE WITH TANK MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, THICKNESS, AND OVERLAP. PAINT SYSTEM SHALL BE EXTERIOR EPOXY. PAINT THICKNESS SHALL BE 14 TO 19 MILS.

Dowberry Engineers Inc.
1000 N. Highway 100
Suite 100
Ocala, FL 32665
407.463.1100

**WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
WASTEWATER TANK PLAN AND
SECTION**
GAINESVILLE, FLORIDA
32653

SEAL

REV. PLAN

SCALE

SCALE: 1/2" = 1'-0"

REVISIONS

NO.	DESCRIPTION	DATE
1	FINAL REVIEW	8/1/2021
2	CLIENT COMMENTS	7/1/2021
3	CLIENT #1 TO 10' RESIZE	6/20/21

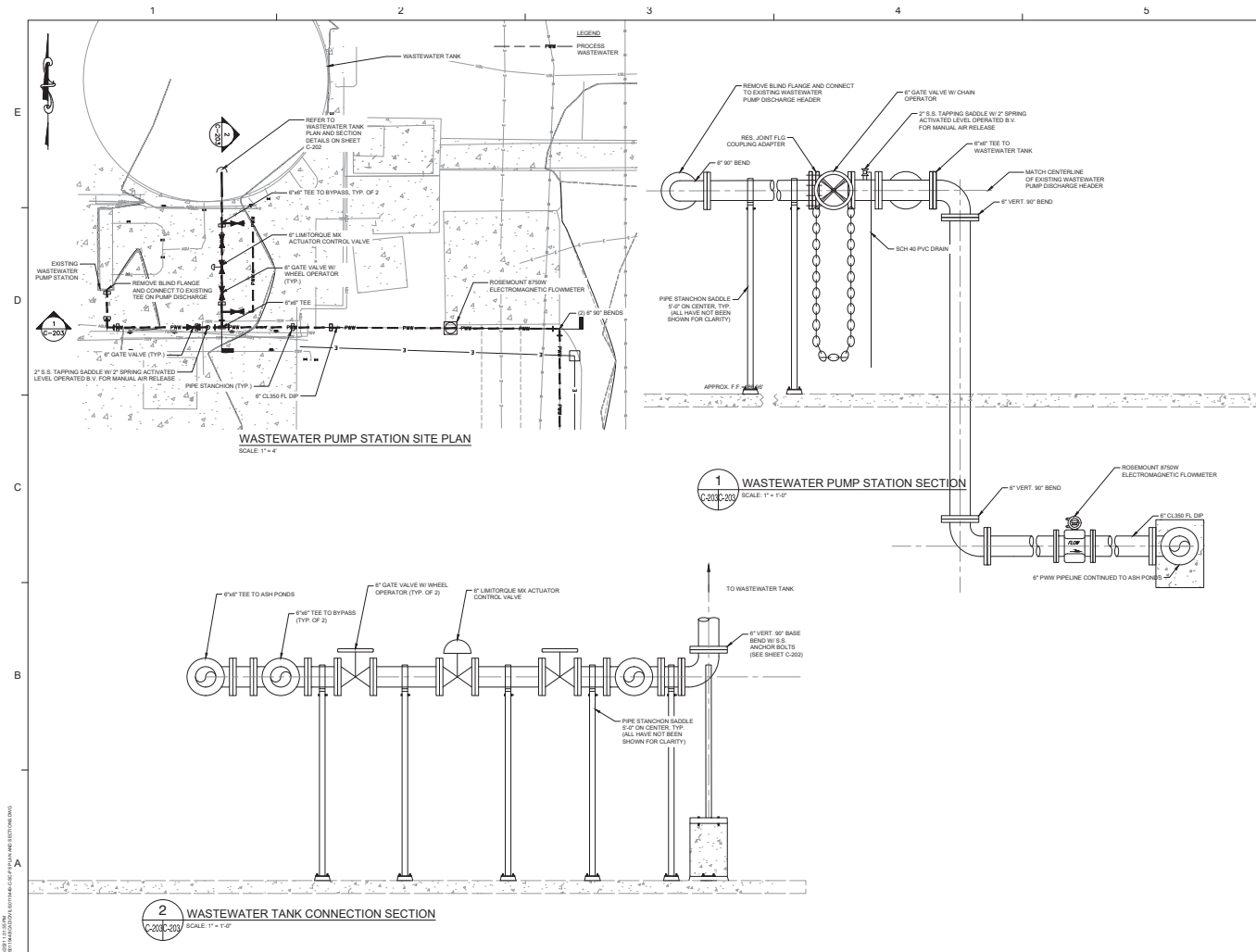
DRAWN BY: JMC
APPROVED BY: JMM
CHECKED BY: JMM
DATE: OCTOBER 21, 2022

TITLE: **WASTEWATER
TANK PLAN AND
SECTION**

PROJECT NO.: 59110449

C-202

SHEET NO.



KEY PLAN

SCALE _____

SCALE: 1" = 1'-0"

SCALE: 1" = 4'

REVISIONS		
NO.	DESCRIPTION	DATE
3	FINAL REVIEW	8/1/17
2	CLIENT COMMENTS	7/7/17
1	CTMW 6" TO 10" RESIZE	4/18/17

DRAWN BY _____ M

APPROVED BY _____

CHECKED BY _____ JJ

DATE OCTOBER 21, 2001

TITLE _____

WASTEWATER

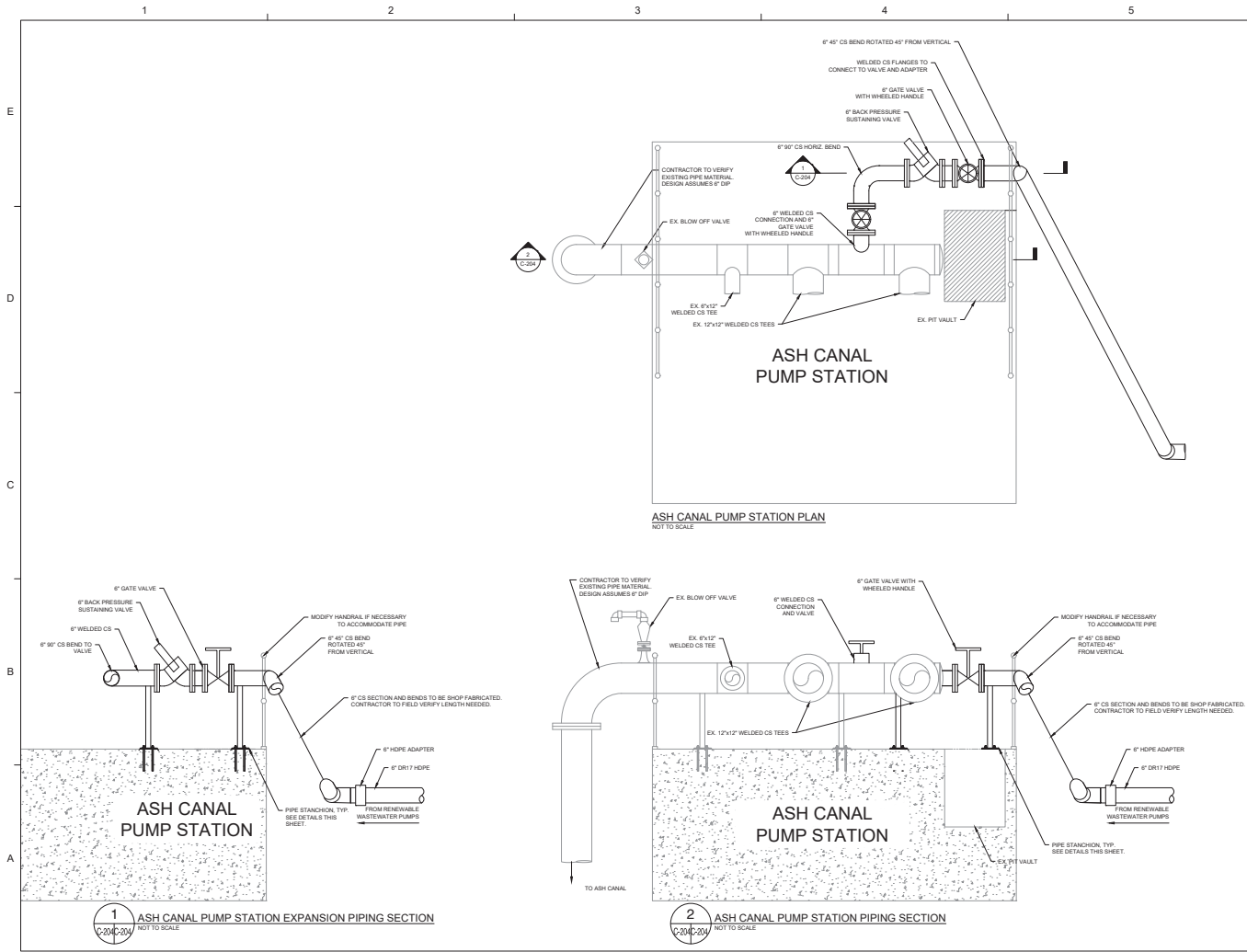
TANK PLUMP

STATION DETAIL

STATION DETAIL

C-203

SHEET NO.



Dewberry Engineers Inc.
2000 N. Highway 100
Suite 100
Ocala, FL 32665
407.463.1100

WATER SHARE
WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
DEERHAVEN, FLORIDA
32853

SEAL

RET PLAN

SCALE

AS NOTED

REVISIONS

NO.	DESCRIPTION	DATE
1	FINAL REVIEW	8/11/21
2	CLIENT COMMENTS	9/1/21
3	CLIENT COMMENTS	9/1/21
4	CLIENT COMMENTS	9/1/21
5	CLIENT COMMENTS	9/1/21
6	CLIENT COMMENTS	9/1/21
7	CLIENT COMMENTS	9/1/21
8	CLIENT COMMENTS	9/1/21
9	CLIENT COMMENTS	9/1/21
10	CLIENT COMMENTS	9/1/21

DRAWN BY: TSSC

APPROVED BY: JE

CHECKED BY: BH

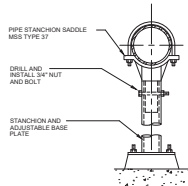
DATE: OCTOBER 21, 2022

TITLE: ASH CANAL PUMP STATION DETAILS

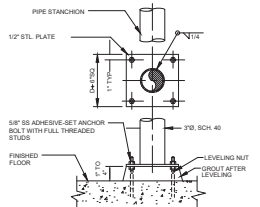
PROJECT NO.: 5910448

C-204

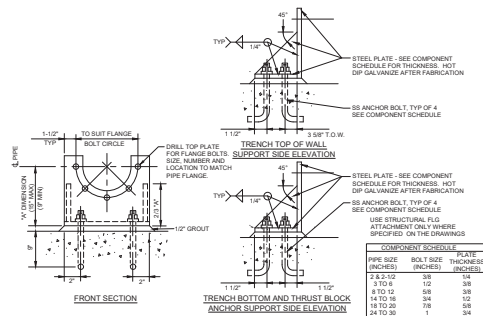
SHEET NO.



PIPE STANCHION SADDLE DETAIL
NOT TO SCALE
4\"/>



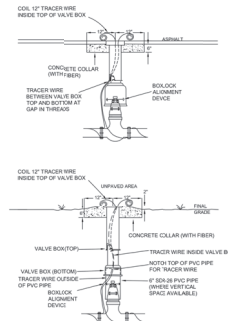
PIPE STANCHION FLOOR ATTACHMENT DETAIL
NOT TO SCALE



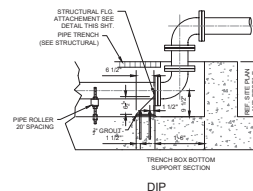
STRUCTURAL FLG. ATTACHMENT DETAIL
NOT TO SCALE

NOTE: FOR EXISTING CONCRETE, NEW PRECAST CONCRETE OR NEW CONCRETE MASONRY UNITS, USE SURFACE MOUNT CHANNEL, UNISTRUT P-1000, SUPER STRUT A-1200, ELCON 800 OR EQUAL. FOR ALL POURED-IN-PLACE CONCRETE PLACE UNDER THIS CONTRACT, USE EMBEDDED CONCRETE INSERT CHANNEL, UNISTRUT P-3200 SERIES WITH END CAPS, OR EQUAL, AND DELETE THE SURFACE MOUNT ANCHOR BOLTS.

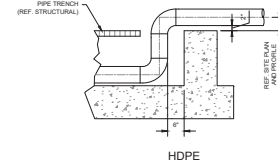
COMPONENT SCHEDULE			
PIPE SIZE (INCHES)	BOLT SIZE (INCHES)	PLATE THICKNESS (INCHES)	
2 & 3 TO 5	3/8	1/4	
5 TO 8	1/2	3/8	
8 TO 12	5/8	3/8	
14 TO 18	3/4	1/2	
18 TO 24	7/8	5/8	
24 TO 36	1	3/4	



VALVE BOX DETAIL FROM GAINESVILLE REGIONAL UTILITIES STANDARD DETAILS, DETAIL WW-4.3
NOT TO SCALE

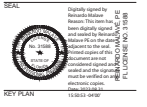


PIPE ATTACHMENT - TYPE B PIPE TRENCH DETAIL
NOT TO SCALE



Dewberry Engineers Inc.
2000 N. University Avenue
Suite 100
Gainesville, FL 32601
817.401.1100

WATER SHARE
WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
GAINESVILLE, FLORIDA
32653



SCALE: AS NOTED

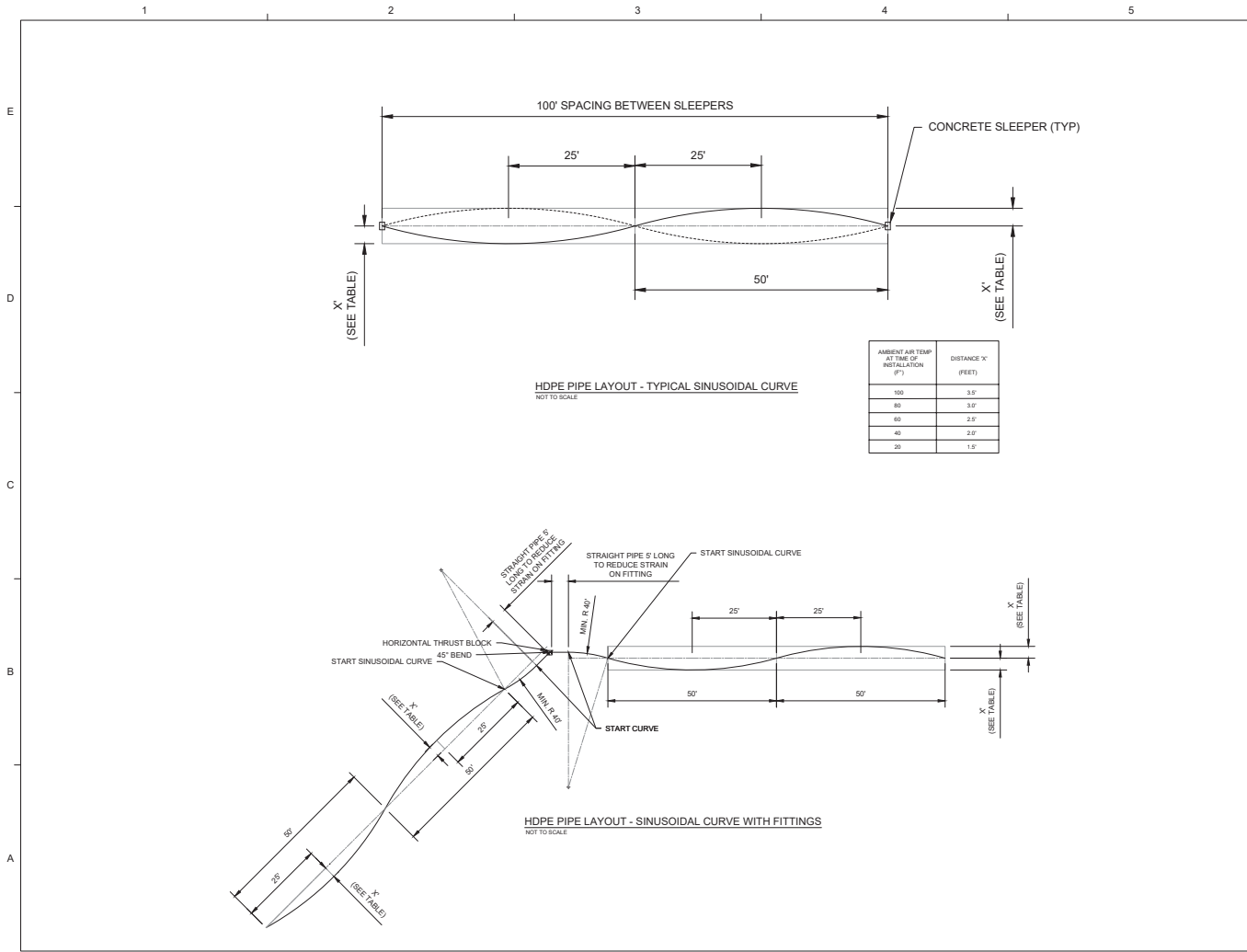
REVISIONS		
3	FINAL REVIEW	8/11/23
2	CLIENT COMMENTS	7/7/23
1	CTMW 6" TO 12" RESIZE	4/8/23
NO.	DESCRIPTION	DATE

DRAWN BY: JMC
APPROVED BY: JMM
CHECKED BY: JMM
DATE: OCTOBER 21, 2022
TITLE: DETAILS

PROJECT NO.: 59110440

C-301

SHEET NO.



Dowberry Engineers Inc.
2000 N. Highway 100
Suite 100
Ocala, FL 32665
352.237.1100

**WATER SHARE DEERHAVEN
RENEWABLE ENERGY PLANT AND
DEERHAVEN GENERATION PLANT
DEERHAVEN, FLORIDA
32853**

SEAL

David J. Smith
Professional Engineer
State of Florida
License No. 12508

REV PLAN

SCALE

AS NOTED

REVISIONS

NO.	DESCRIPTION	DATE
1	FINAL REVIEW	8/11/21
2	CLIENT COMMENTS	7/15/21
3	CLIENT COMMENTS	7/15/21
4	CLIENT COMMENTS	7/15/21
5	CLIENT COMMENTS	7/15/21
6	CLIENT COMMENTS	7/15/21
7	CLIENT COMMENTS	7/15/21
8	CLIENT COMMENTS	7/15/21
9	CLIENT COMMENTS	7/15/21
10	CLIENT COMMENTS	7/15/21

DRAWN BY: TNSC
APPROVED BY: JSM
CHECKED BY: JSM
DATE: OCTOBER 21, 2022
TITLE: DETAILS

PROJECT NO.: 8110448

C-302

SHEET NO.