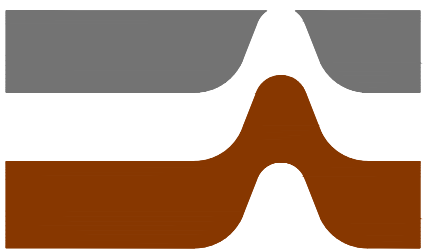


CONSTRUCTION DRAWINGS FOR CLOSURE OF OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT PHOSPHOGYPSUM STACK SYSTEM MANATEE COUNTY, FLORIDA

FOR
DONICA RECEIVERSHIP SERVICES, LLC
301 W. PLATT ST., #A 410 TAMPA, FL 33606

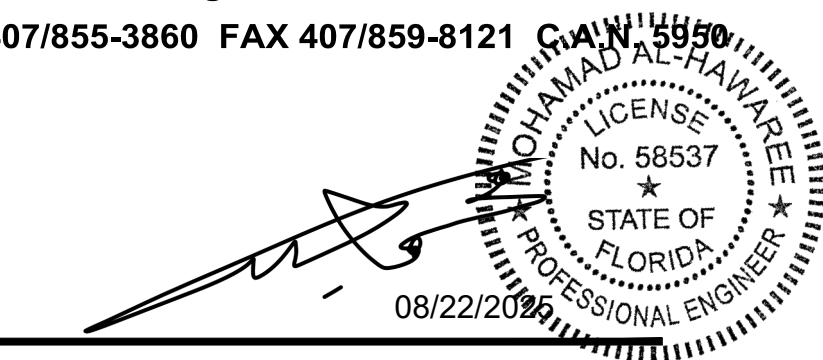
AUGUST 2025



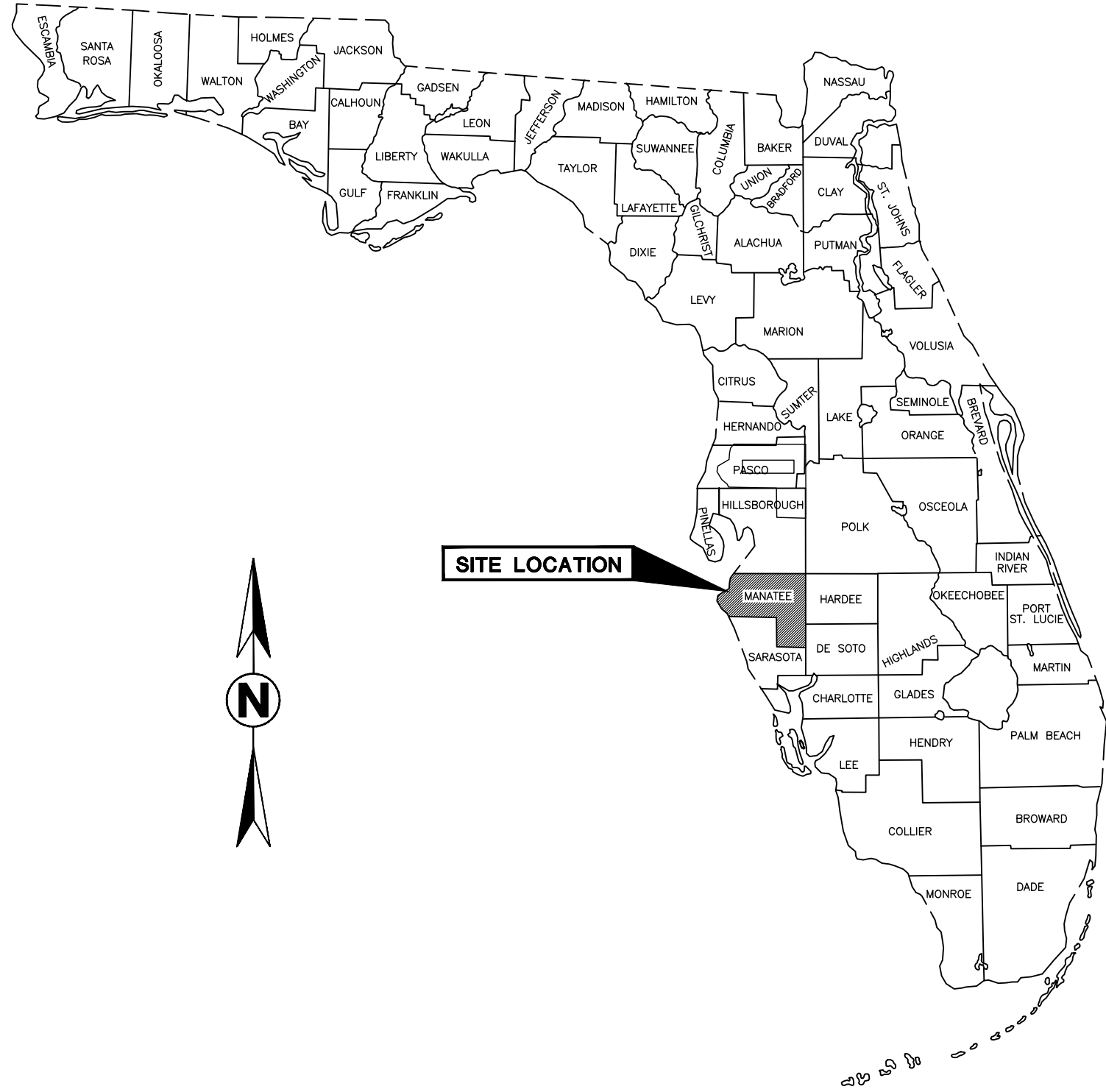
Prepared By
Ardaman & Associates, Inc.
Orlando, Florida

8008 S. Orange Ave., Orlando, FL 32809
TEL 407/855-3860 FAX 407/859-8121 C.W. 5550

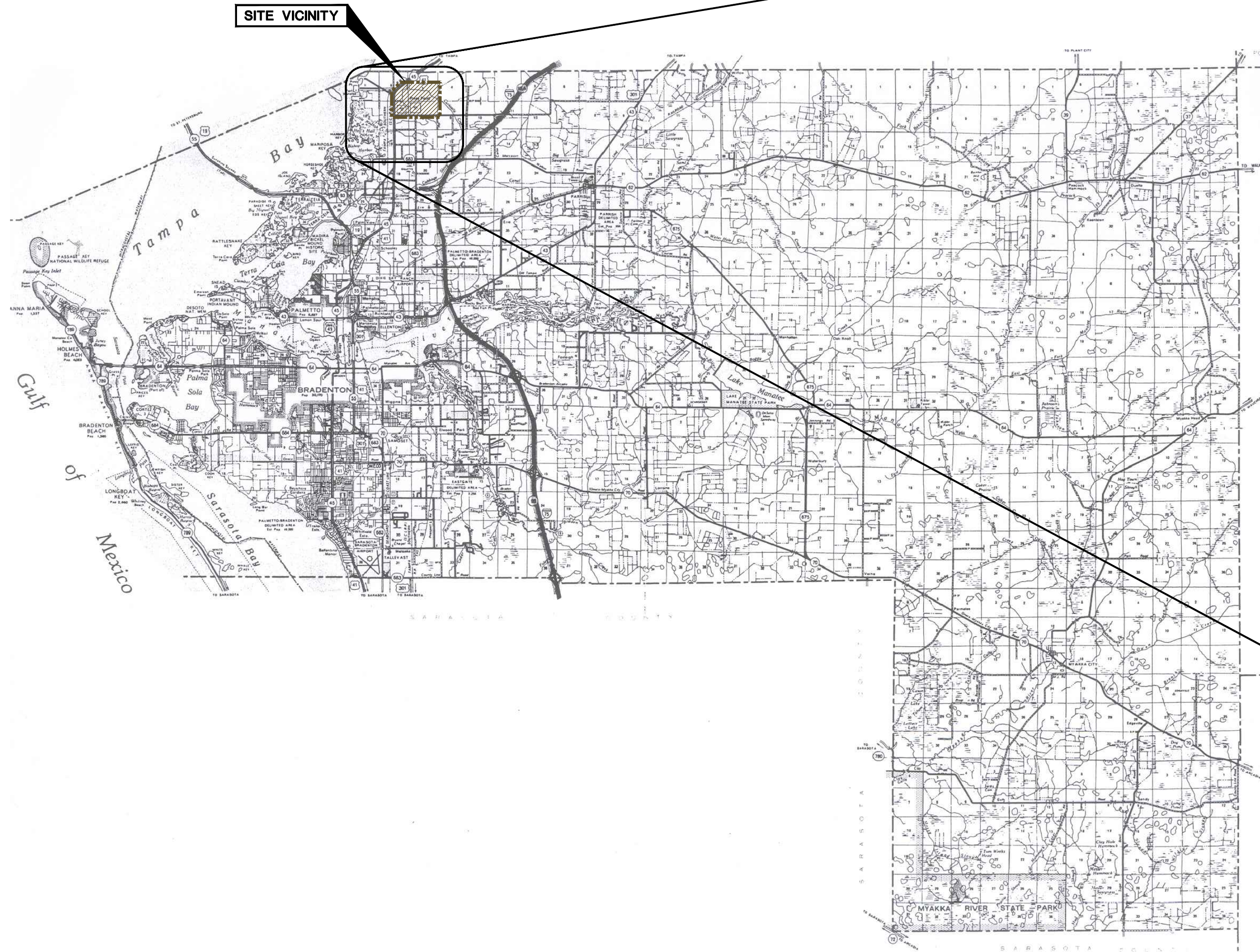
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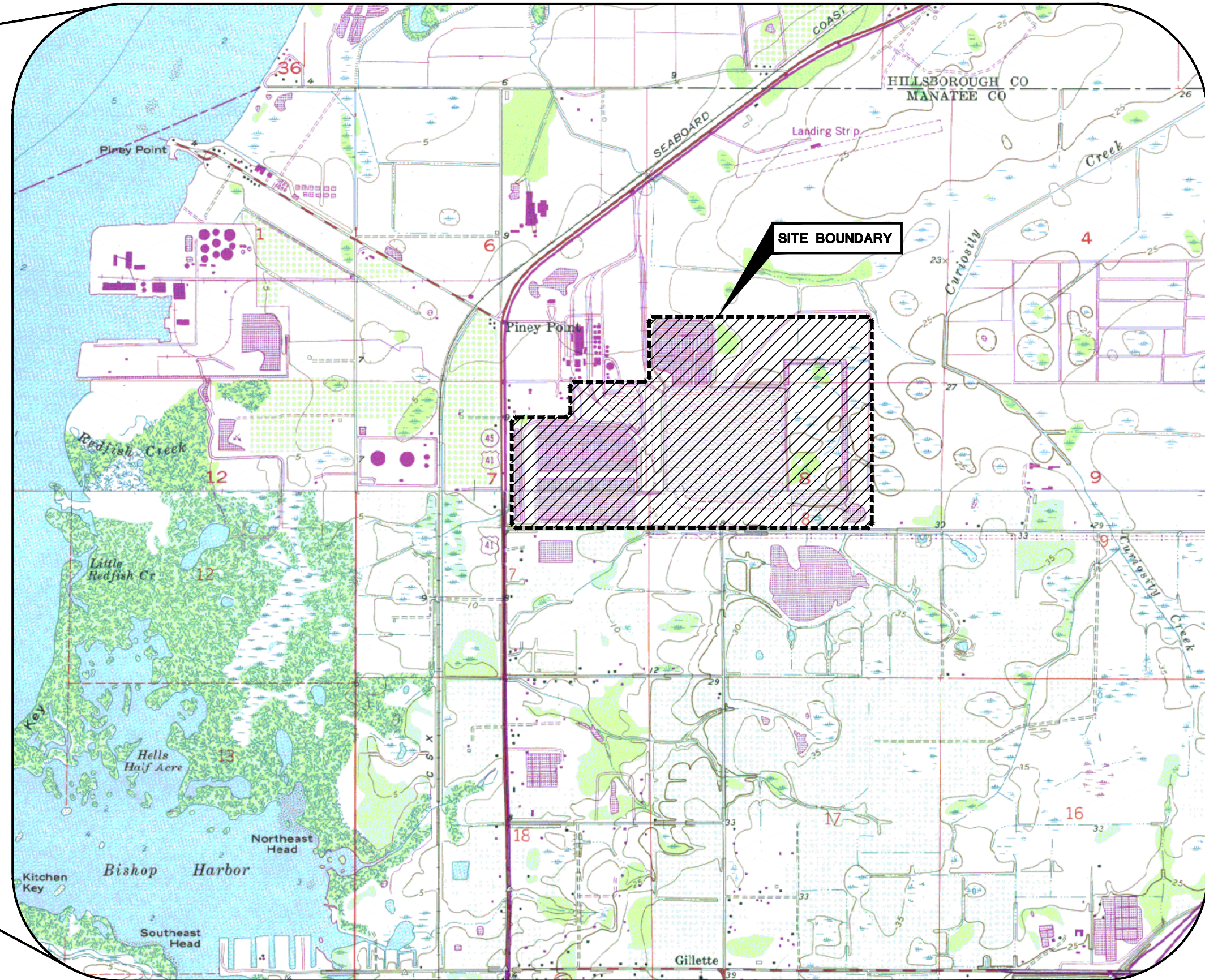
MOHAMAD AL-HAWAREE, P.E.
Florida License No. 58537



FLORIDA STATE MAP
NOT TO SCALE



MANATEE COUNTY MAP
SCALE: 1" = 20,000'



TOWNSHIP 33 SOUTH
RANGE 18 EAST
OBTAINED FROM U.S.G.S. QUADRANGLE MAPS:
COCKROACH BAY, FLORIDA (PHOTOREVISED 1981)
PALMETTO, FLORIDA (PHOTOREVISED 1987)

SITE VICINITY MAP
SCALE: 1" = 2000'

INDEX OF DRAWINGS

Sheet Number	Sheet Title
1	COVER SHEET
2	INDEX OF DRAWINGS AND PROJECT LOCATION MAPS
3	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
4	AERIAL PHOTOGRAPH OF PINEY POINT FACILITY
5	TOPOGRAPHIC SURVEY OF PINEY POINT FACILITY
6	ACCESS ROAD AND STAGING AREAS MAP
7	GYP SUM BORROW AREA PLAN
8	DEMOLITION PLAN
9	ALIGNMENT PLAN
10	SAND COVER PLAN
11	GEOTEXTILE TUBES SEEPAGE COLLECTION DRAIN PLAN
12	GYP SUM COVER PLAN
13	GAS VENT SYSTEM PLAN
14	LINER LAYOUT PLAN
15	SOIL COVER AND FINAL GRADING PLAN
16	CROSS SECTIONS C AND D
17	CROSS SECTIONS E AND F
18	CROSS SECTION G
19	CROSS SECTION H
20	CROSS SECTION I
21	CROSS SECTION J
22	SWALE PROFILE
23	GEOTEXTILE TUBES SEEPAGE COLLECTION DRAIN DETAILS
24	TYPICAL LINER DETAILS
25	GAS VENT DETAILS

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0	08/22/25	ISSUED FOR CONSTRUCTION	RR	DESIGNED BY: CAB 05/13/25
P2	06/25/25	ISSUED FOR BID	RR	DRAWN BY: AFH 05/13/25
P1	06/18/25	ISSUED FOR CLIENT REVIEW (100% SUBMITTAL)	RR	FILE NO.: 21-13-0031C

Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
8008 S. Orange Ave., Orlando, FL 32809
TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950

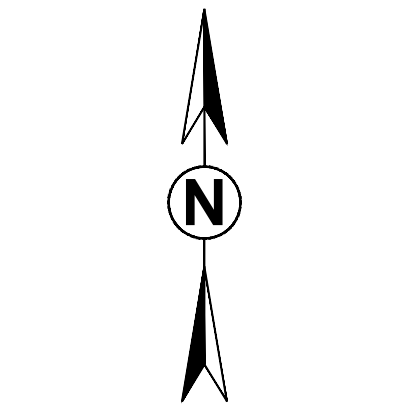
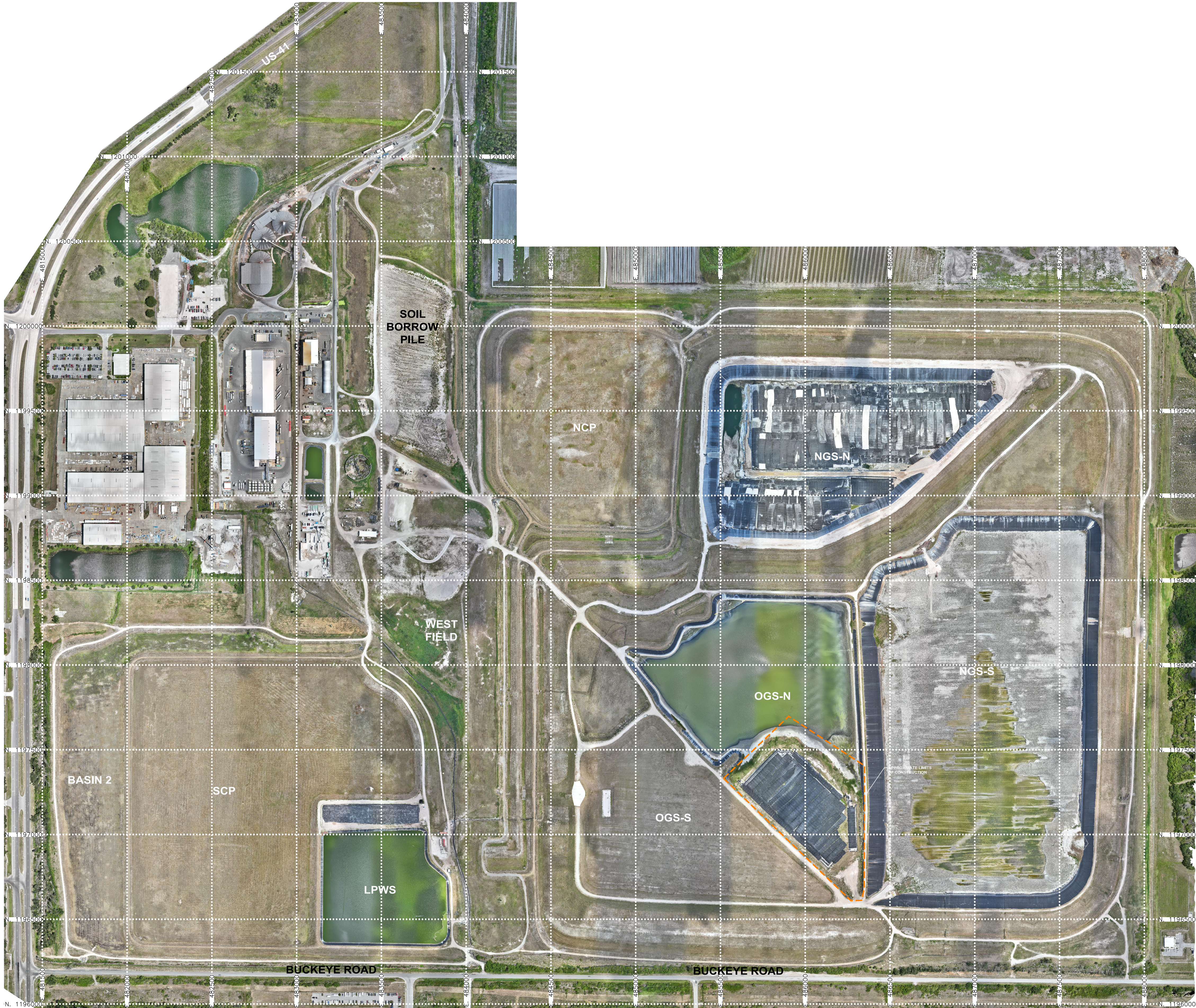
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TAMPA, FL 33606

CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

INDEX OF DRAWINGS AND
PROJECT LOCATION MAPS

DRAWING NO.

2



0 300 600
SCALE: 1" = 300'

AERIAL PHOTOGRAPH FROM
ARDAMAN AND ASSOCIATES, INC.
DATE OF PHOTOGRAPH:
MAY 28, 2025

LEGEND
APPROXIMATE LIMITS
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			APPR'D	APPROVED BY:	M. AL-HAWAREE	



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Geotechnical, Environmental and Materials Consultants
8008 S. Orange Ave., Orlando, FL 32809
TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950

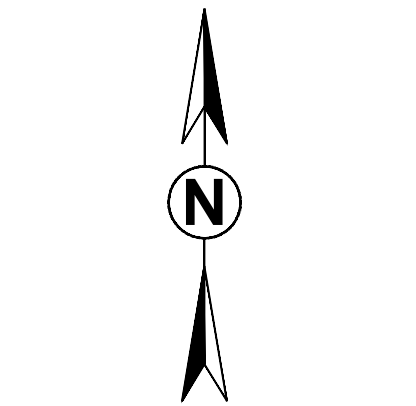
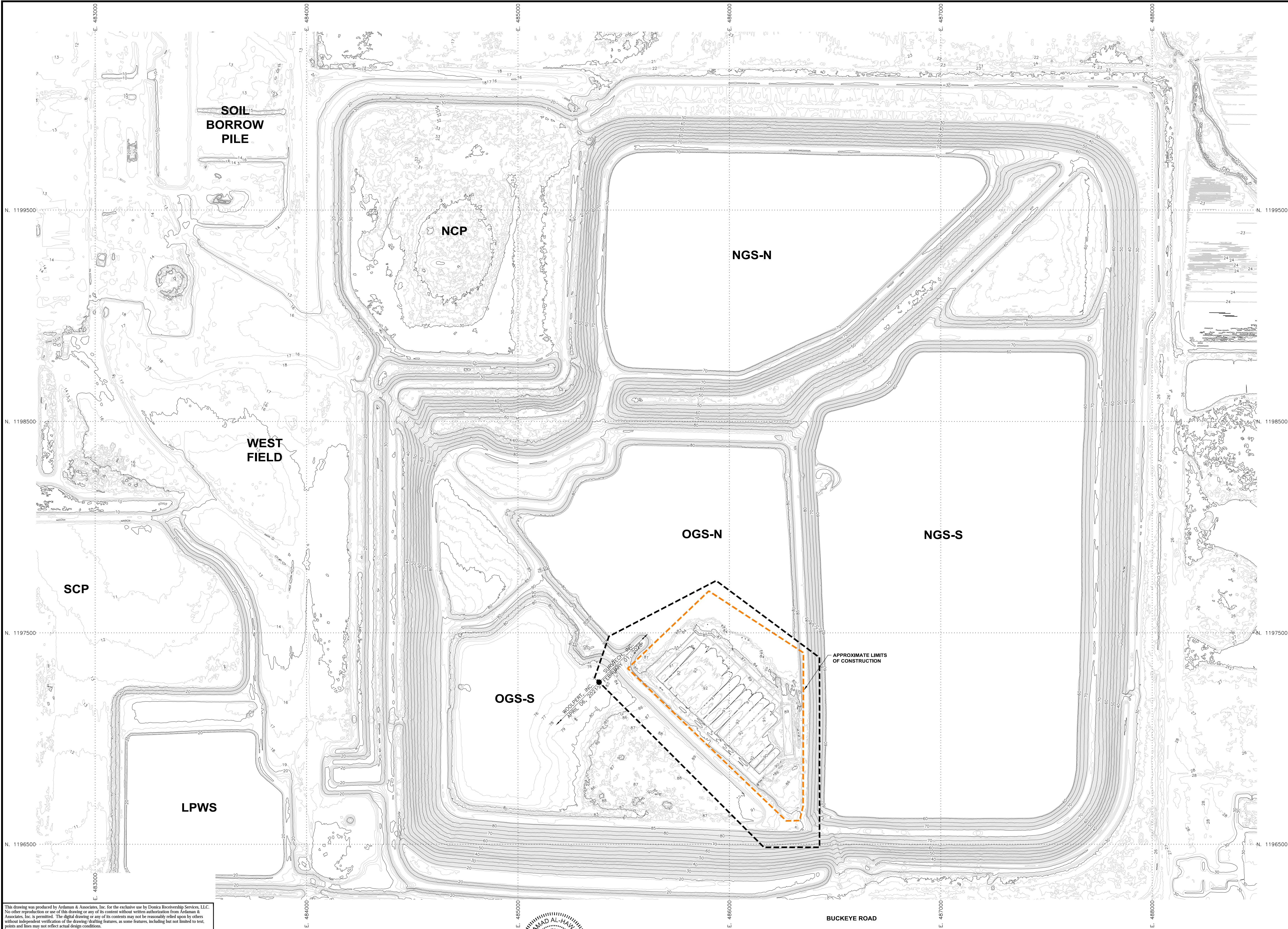
DONICA RECEIVERSHIP SERVICES, LLC
301 W. PLATT ST., #A 410
TAMPA, FL 33606

CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

**AERIAL PHOTOGRAPH OF PINEY
POINT FACILITY**

DRAWING NO.

4



0 200 400
SCALE: 1" = 200'

TOPOGRAPHY BASED ON LIDAR SURVEY
BY WOOLPERT, INC.

DATED APRIL 06, 2021
VERTICAL DATUM NGVD29

CONTOUR INTERVAL: 1'

TOPOGRAPHY BASED ON LIDAR SURVEY
BY SURVTECH, INC.

DATED FEBRUARY 01, 2025
VERTICAL DATUM NGVD29

CONTOUR INTERVAL: 1'

LEGEND

APPROXIMATE LIMITS
OF CONSTRUCTION

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APPROVED BY: M. AL-HAWAREE		

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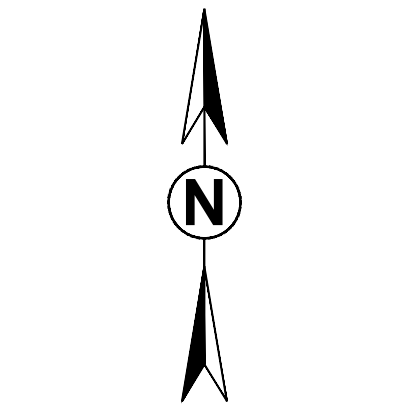
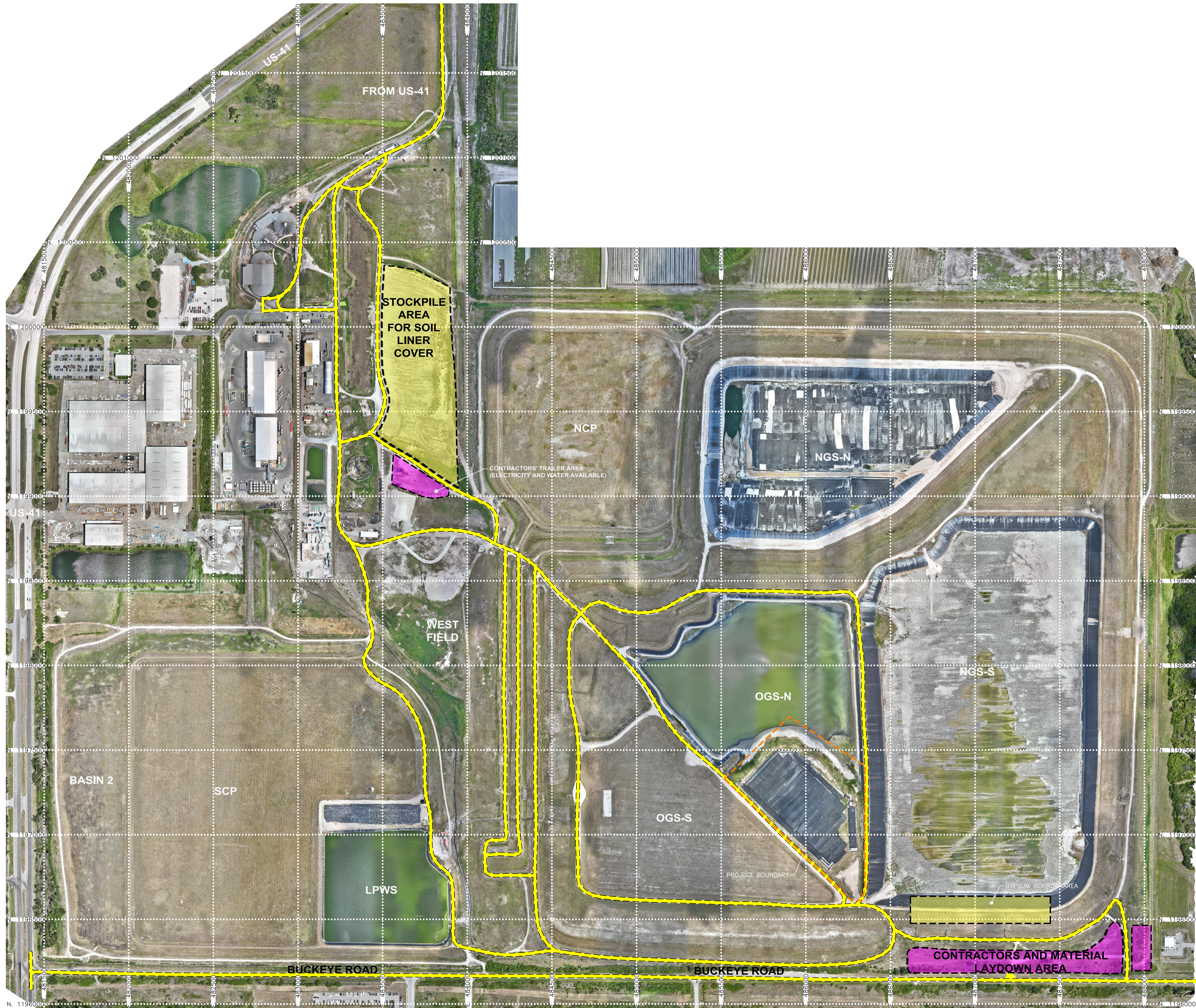
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TAMPA, FL 33606

CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

**TOPOGRAPHIC SURVEY OF PINEY
POINT FACILITY**

DRAWING NO.

5



0 300 600
SCALE: 1" = 300'

AERIAL PHOTOGRAPH FROM
ARDAMAN AND ASSOCIATES, INC.
DATE OF PHOTOGRAPH:
MAY 28, 2025

LEGEND

- CONTRACTOR ACCESS
- APPROXIMATE LIMITS OF CONSTRUCTION
- CONTRACTOR'S ACCESS POINTS, LAYDOWN AREAS, TRAILER AREAS AND NON-POTABLE WATER SOURCE
- SOIL/GYPSUM BORROW AREAS

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			APPROVED BY:	M. AL-HAWAREE		

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8008 S. Orange Ave., Orlando, FL 32809
TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950

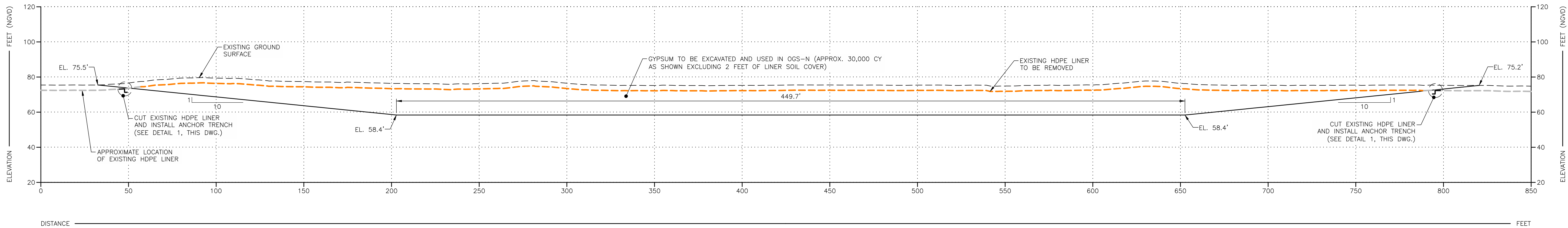
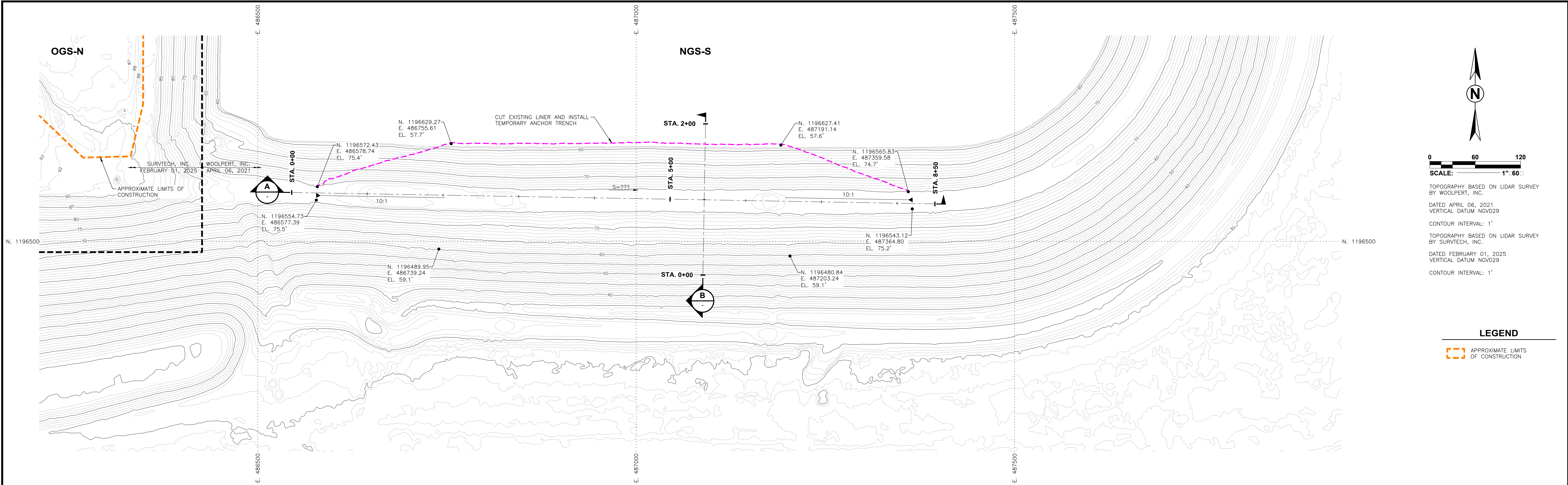
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TAMPA, FL 33606

CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

**ACCESS ROAD AND STAGING
AREAS MAP**

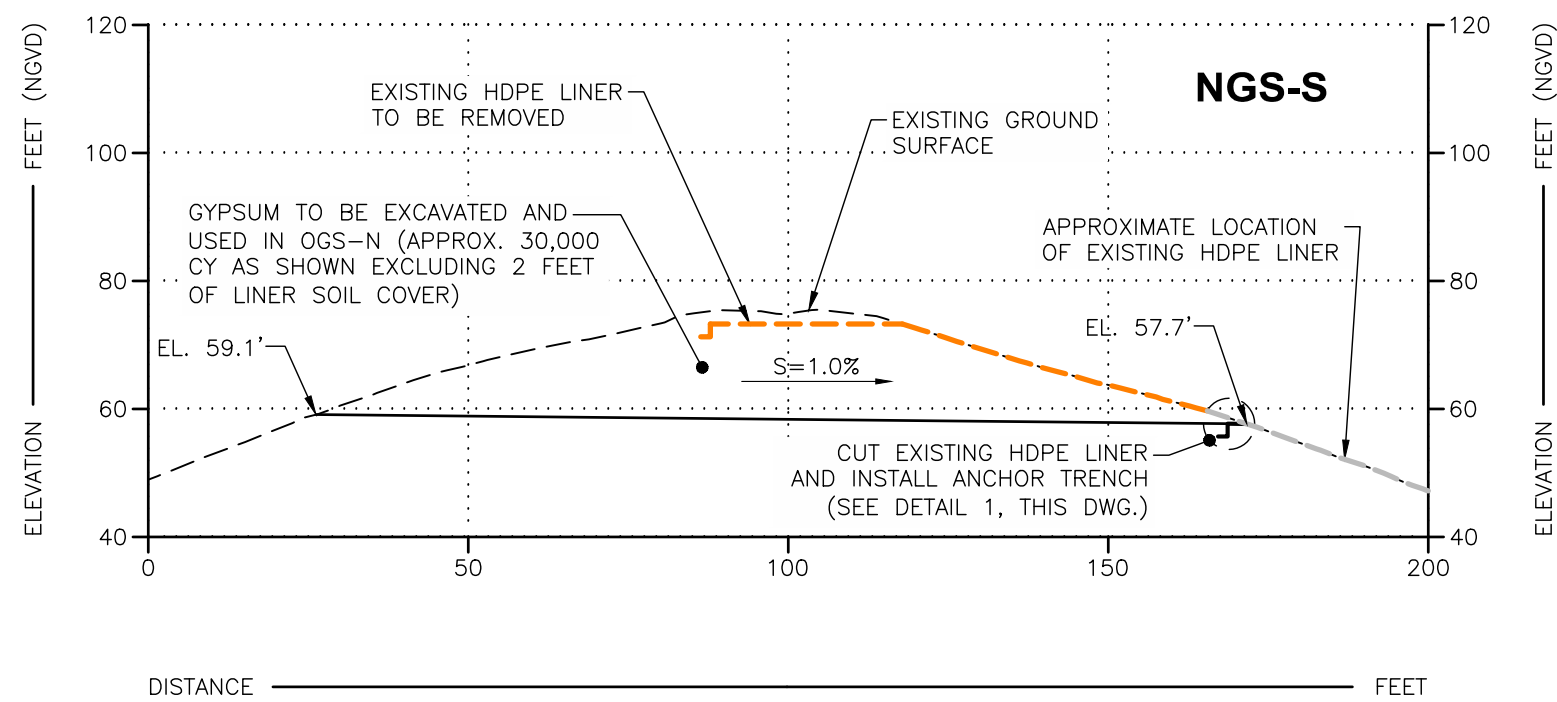
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6



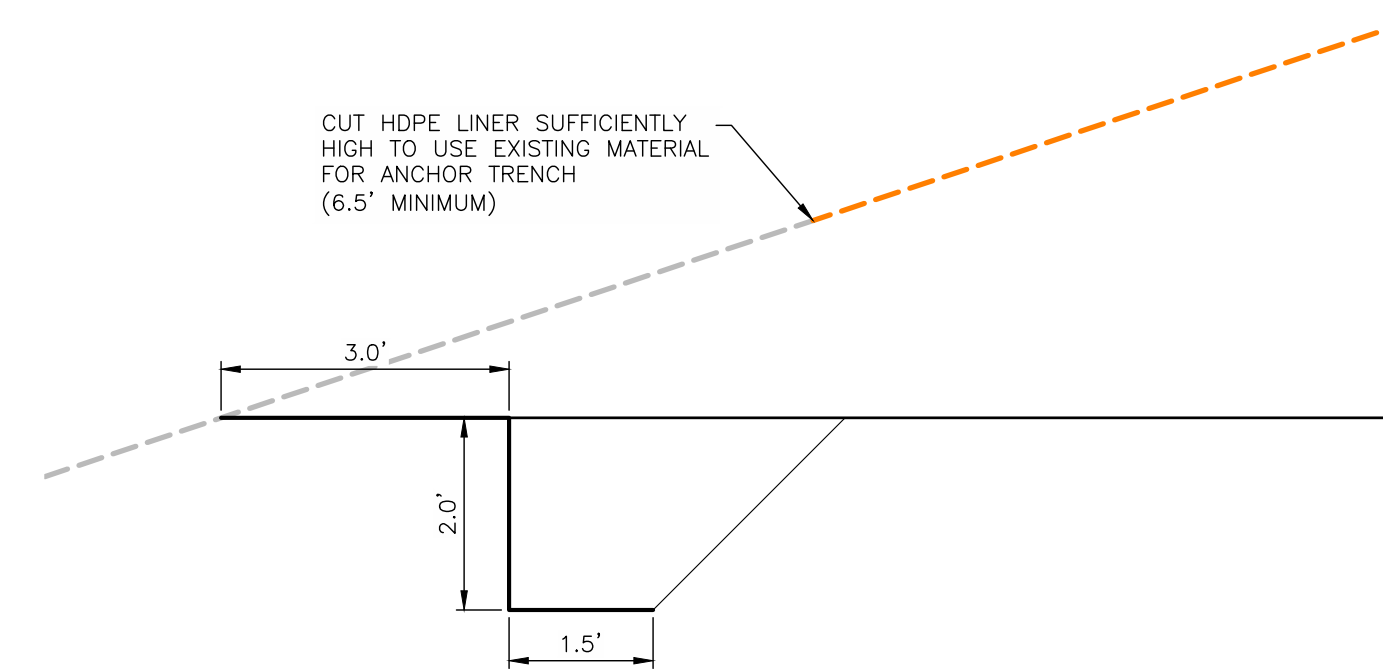
A DESCRIPTION

SCALE: 1" = 30'



B DESCRIPTION

SCALE: 1" = 30'



1 ANCHOR TRENCH DETAIL

SCALE: 1" = 2'

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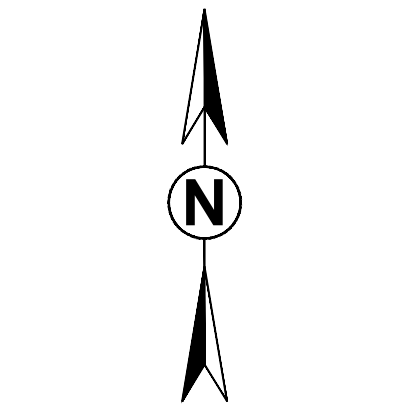
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TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950

DONICA RECEIVERSHIP SERVICES, LLC
301 W. PLATT ST., #A 410
TAMPA, FL 33606

**CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM**
MANATEE COUNTY, FLORIDA

GYPSUM BORROW AREA PLAN

DRAWING NO.



0 100 200
SCALE: 1" = 100'

AERIAL PHOTOGRAPH FROM
ARDAMAN AND ASSOCIATES, INC.
DATE OF PHOTOGRAPH:
MAY 28, 2025

LEGEND

- APPROXIMATE LIMITS OF CONSTRUCTION
- LOCATION OF ITEMS TO BE REMOVED

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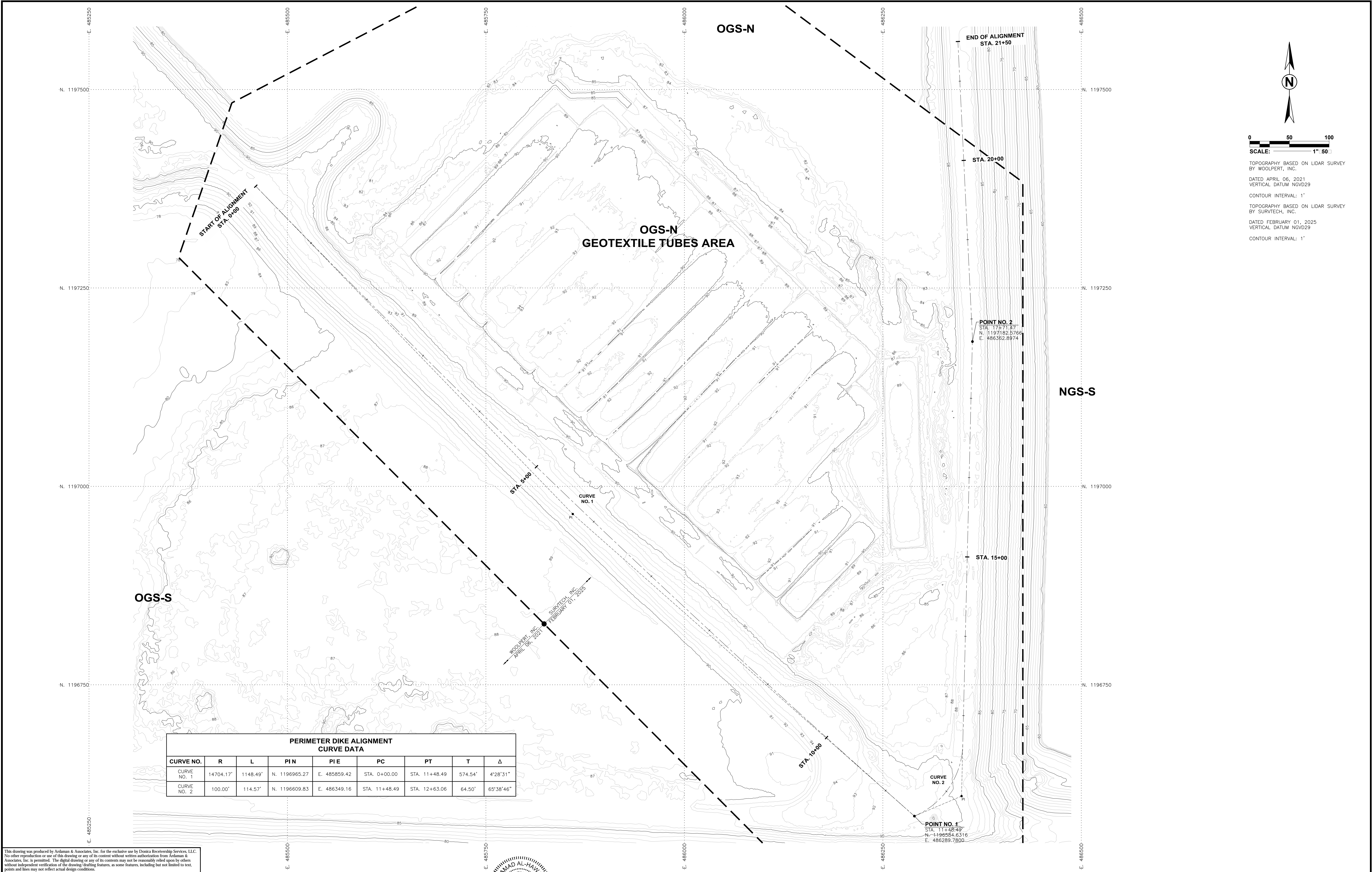
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8008 S. Orange Ave., Orlando, FL 32809
TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950

DONICA RECEIVERSHIP SERVICES, LLC
301 W. PLATT ST., #A 410
TAMPA, FL 33606

CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

DEMOLITION PLAN

DRAWING NO. 



PERIMETER DIKE ALIGNMENT CURVE DATA								
CURVE NO.	R	L	PIN	PIE	PC	PT	T	Δ
CURVE NO. 1	14704.17'	1148.49'	N. 1196965.27	E. 485859.42	STA. 0+00.00	STA. 11+48.49	574.54'	4°28'31"
CURVE NO. 2	100.00'	114.57'	N. 1196609.83	E. 486349.16	STA. 11+48.49	STA. 12+63.06	64.50'	65°38'46"

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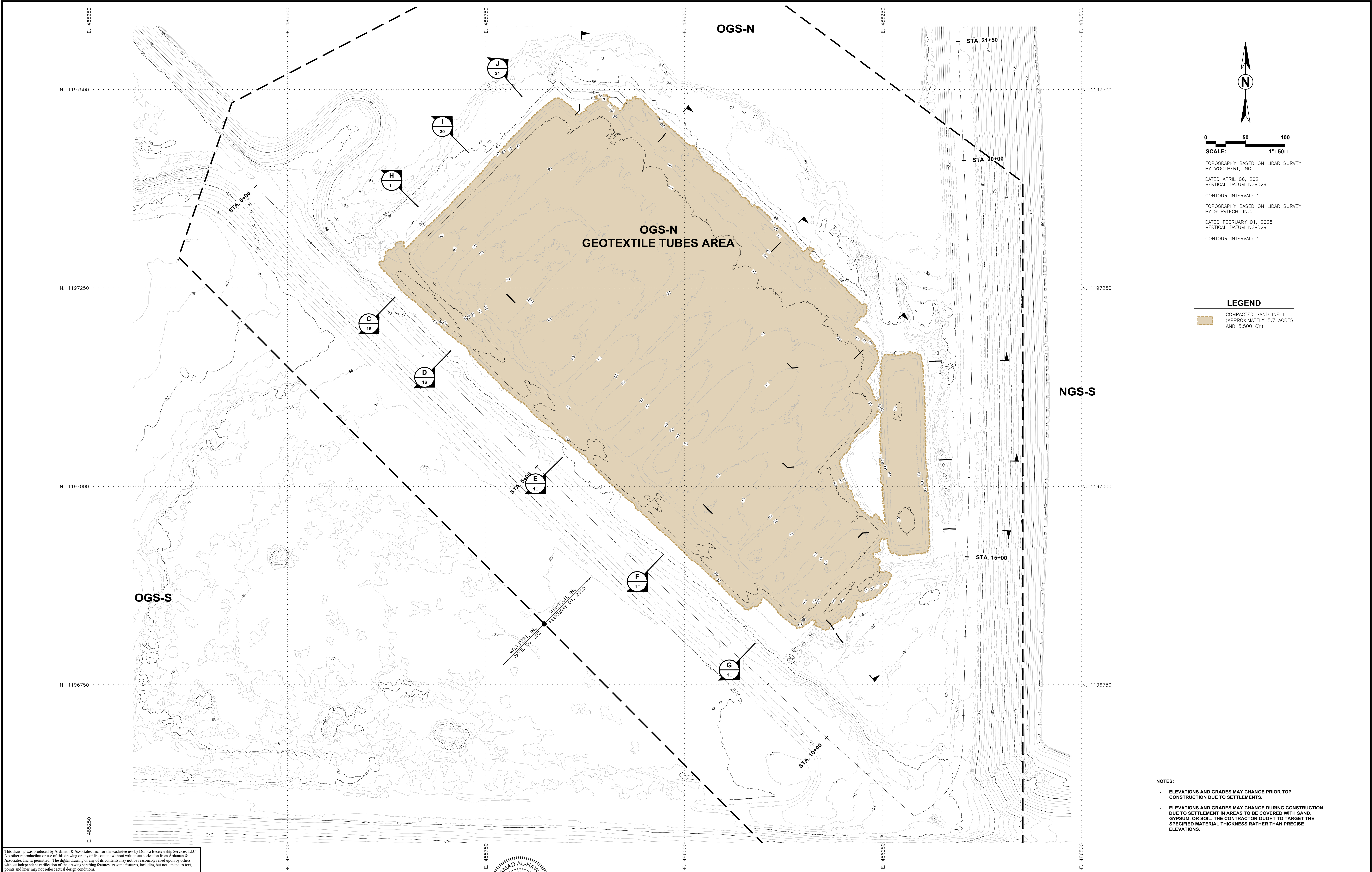
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TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950

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TAMPA, FL 33606

CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

ALIGNMENT PLAN

DRAWING NO. 



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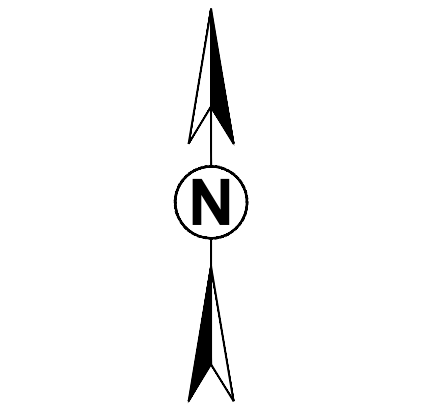
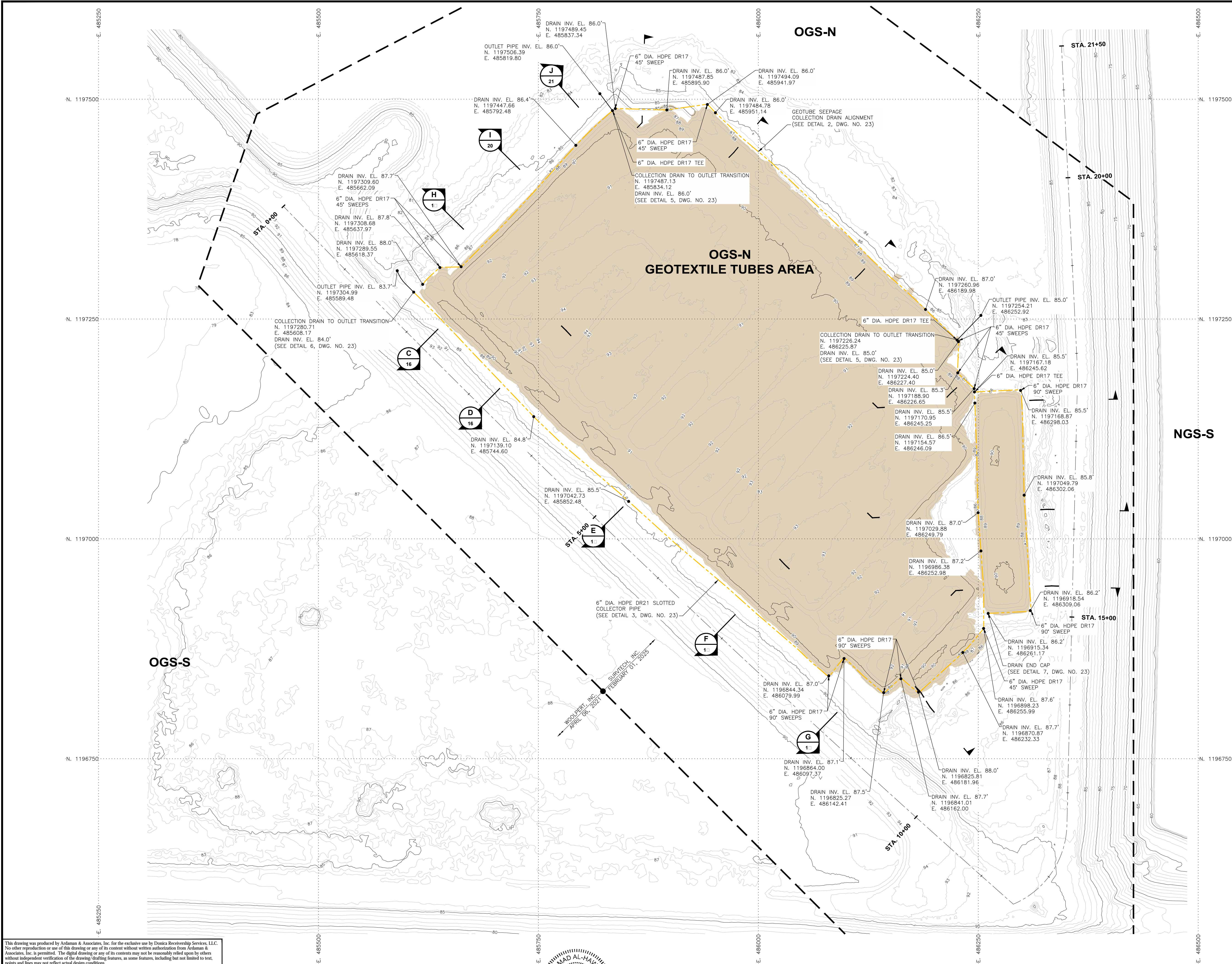
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**CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM**
MANATEE COUNTY, FLORIDA

SAND COVER PLAN

DRAWING NO.

10



TOPOGRAPHY BASED ON LIDAR SURVEY
BY WOOLPERT, INC.
DATED APRIL 06, 2021
VERTICAL DATUM NGVD29
CONTOUR INTERVAL: 1'
TOPOGRAPHY BASED ON LIDAR SURVEY
BY SURVITECH, INC.
DATED FEBRUARY 01, 2025
VERTICAL DATUM NGVD29
CONTOUR INTERVAL: 1'

LEGEND

- PRELIMINARY Q OF GEOTUBE SEEPAGE
- COLLECTION DRAIN SEGMENTS
- (APPROXIMATE LENGTH = 2380' LF)

- NOTES:
- ELEVATIONS AND GRADES MAY CHANGE PRIOR TOP CONSTRUCTION DUE TO SETTLEMENTS.
 - ELEVATIONS AND GRADES MAY CHANGE DURING CONSTRUCTION DUE TO SETTLEMENT IN AREAS TO BE COVERED WITH SAND, GYPSUM, OR SOIL. THE CONTRACTOR OUGHT TO TARGET THE SPECIFIED MATERIAL THICKNESS RATHER THAN PRECISE ELEVATIONS.

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DRAWN BY	AFH	05/13/25	REVIEWED BY	RR	05/13/25
FILE NO.	21-13-0031C				
APPR'D	APPROVED BY: M. AL-HAWAREE				



Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
8008 S. Orange Ave., Orlando, FL 32809
TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950

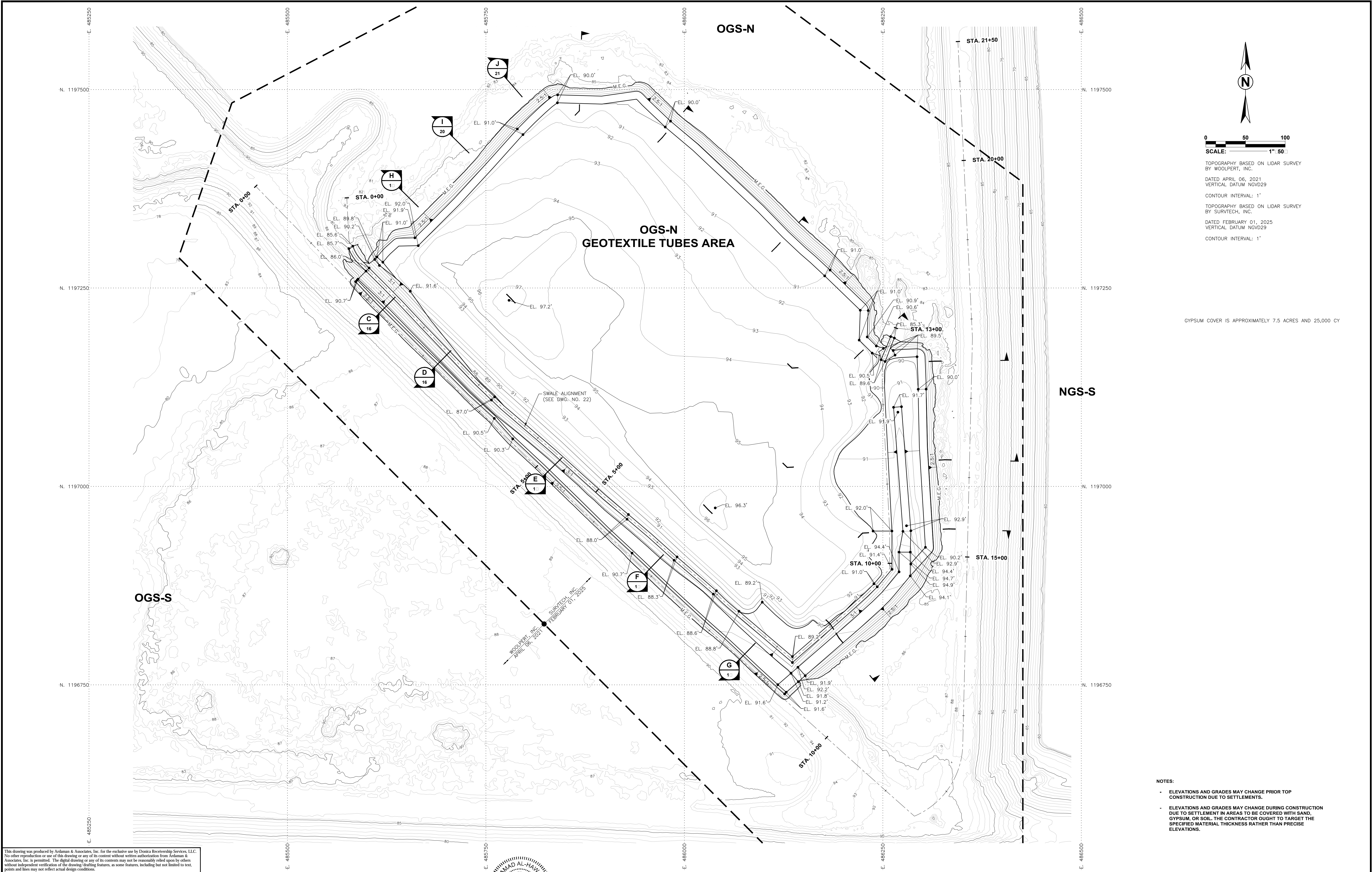
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TAMPA, FL 33606

CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

GEOTEXTILE TUBES SEEPAGE
COLLECTION DRAIN PLAN

DRAWING NO.

11



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Muhammad Al-Hawaree, State of Florida, Professional Engineer, License No. 58537.

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8008 S. Orange Ave., Orlando, FL 32809
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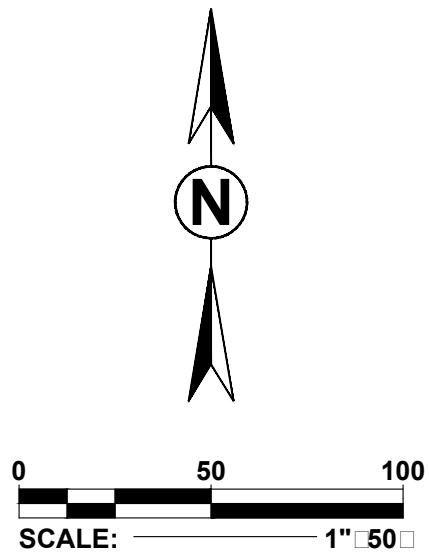
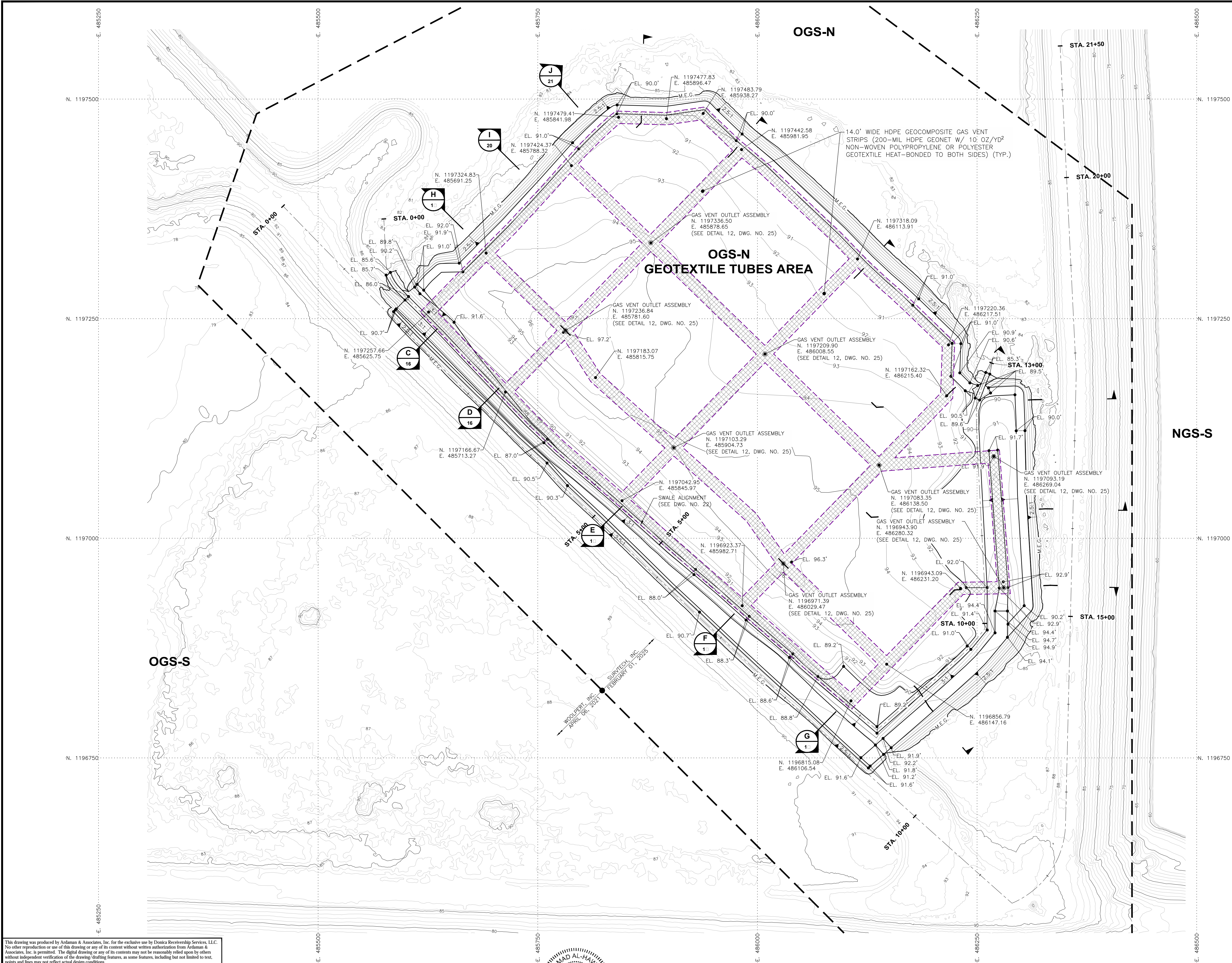
DONICA RECEIVERSHIP SERVICES, LLC
301 W. PLATT ST., #A 410
TAMPA, FL 33606

**CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM**
MANATEE COUNTY, FLORIDA

GYPSUM COVER PLAN

DRAWING NO.

12



TOPOGRAPHY BASED ON LIDAR SURVEY
BY WOOLPERT, INC.

DATED APRIL 06, 2021
VERTICAL DATUM NGVD29

CONTOUR INTERVAL: 1'

TOPOGRAPHY BASED ON LIDAR SURVEY
BY SURVITECH, INC.

DATED FEBRUARY 01, 2025
VERTICAL DATUM NGVD29

CONTOUR INTERVAL: 1'

- LEGEND**
- 14.0' WIDE HDPE GEOCOMPOSITE GAS VENT STRIPS (200-MIL HDPE GEONET W/ 10 OZ/YD² NON-WOVEN POLYPROPYLENE OR POLYESTER GEOTEXTILE HEAT-BONDED TO BOTH SIDES) (APPROXIMATE LENGTH = 3615 LF)
 - GAS VENT OUTLET ASSEMBLY (TYP.)

- NOTES:**
- ELEVATIONS AND GRADES MAY CHANGE PRIOR TOP CONSTRUCTION DUE TO SETTLEMENTS.
 - ELEVATIONS AND GRADES MAY CHANGE DURING CONSTRUCTION DUE TO SETTLEMENT IN AREAS TO BE COVERED WITH SAND, GYPSUM, OR SOIL. THE CONTRACTOR OUGHT TO TARGET THE SPECIFIED MATERIAL THICKNESS RATHER THAN PRECISE ELEVATIONS.

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Mohamad Al-Hawaree, State of Florida, Professional Engineer, License No. 58537.

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P2	06/25/25	ISSUED FOR BID
P1	06/18/25	ISSUED FOR CLIENT REVIEW (100% SUBMITTAL)

NAME	DATE	DATE
DESIGNED BY	CAB	05/13/25
DRAWN BY	AFH	05/13/25
FILE NO.	21-13-0031C	
APPROVED BY:	M. AL-HAWAREE	

Ardaman & Associates, Inc.
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DONICA RECEIVERSHIP SERVICES, LLC
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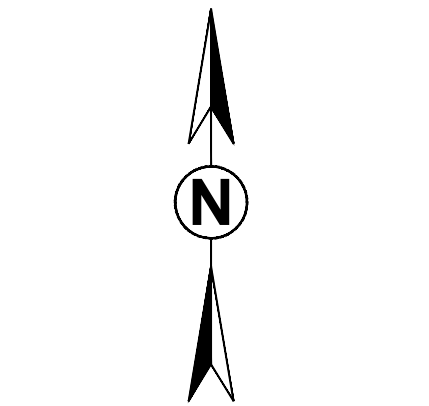
CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM

MANATEE COUNTY, FLORIDA

GAS VENT SYSTEM PLAN

DRAWING NO.

13



TOPOGRAPHY BASED ON LIDAR SURVEY
BY WOOLPERT, INC.
DATED APRIL 06, 2021
VERTICAL DATUM NGVD29
CONTOUR INTERVAL: 1'
TOPOGRAPHY BASED ON LIDAR SURVEY
BY SURVTECH, INC.
DATED FEBRUARY 01, 2025
VERTICAL DATUM NGVD29
CONTOUR INTERVAL: 1'

- LEGEND**
- 60-MIL TEXTURED HDPE LINER
(APPROXIMATE AREA = 6.6 ACRES)
 - LINER EDGE PROTECTION
(APPROXIMATE AREA = 1,465 LF)

- NOTES:**
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CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

LINER LAYOUT PLAN

DRAWING NO.

14



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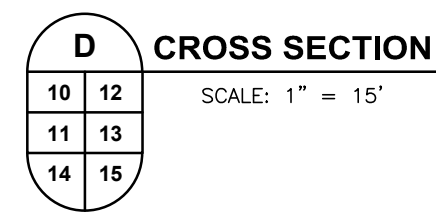
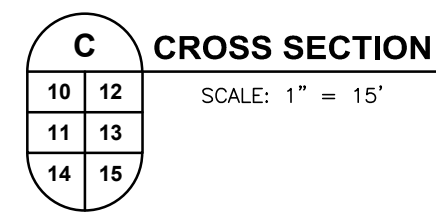
**CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM**
MANATEE COUNTY, FLORIDA

**SOIL COVER AND
FINAL GRADING PLAN**

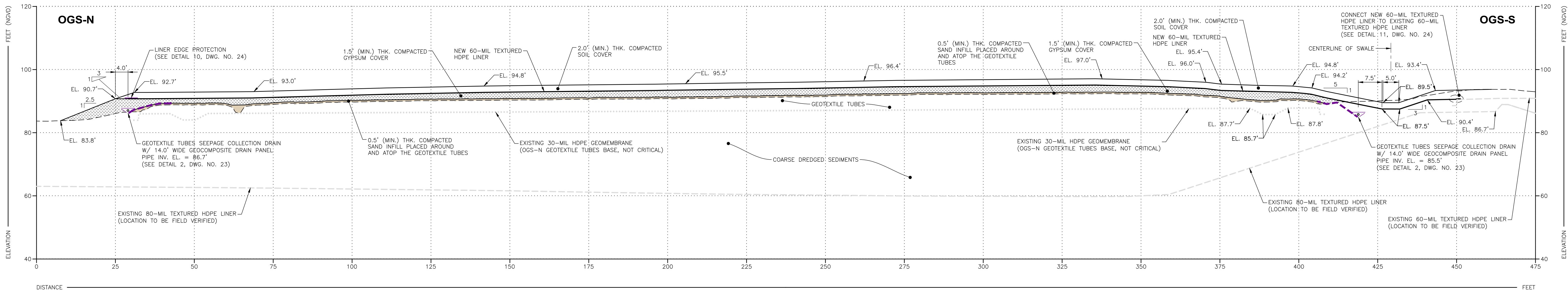
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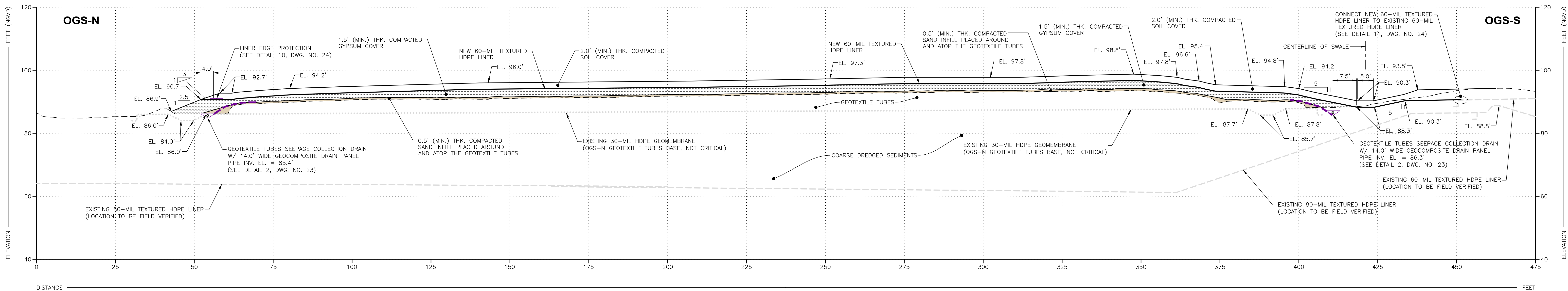
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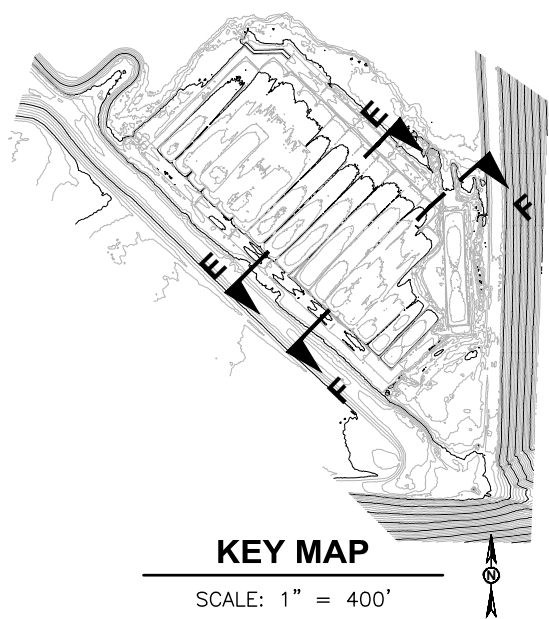
- 16



E CROSS SECTION
SCALE: 1" = 15'



F CROSS SECTION
SCALE: 1" = 15'



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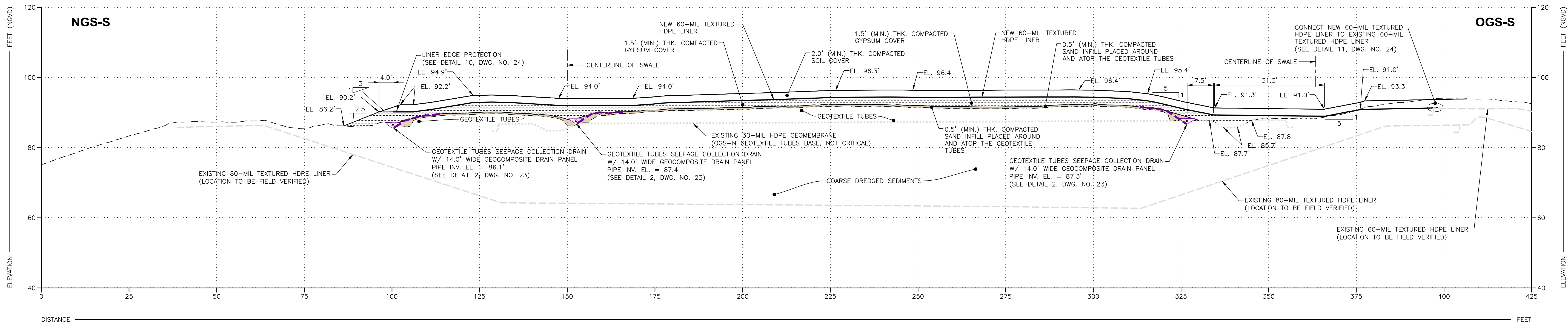
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CONSTRUCTION DRAWINGS FOR CLOSURE OF
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PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

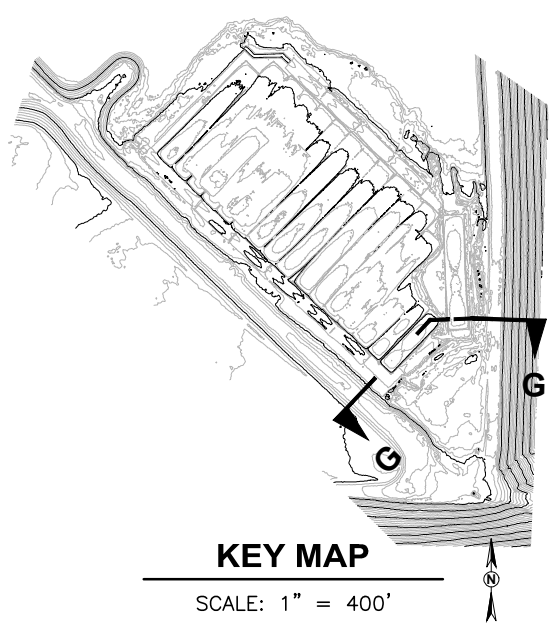
CROSS SECTIONS E AND F

DRAWING NO.

17



G CROSS SECTION
SCALE: 1" = 15'



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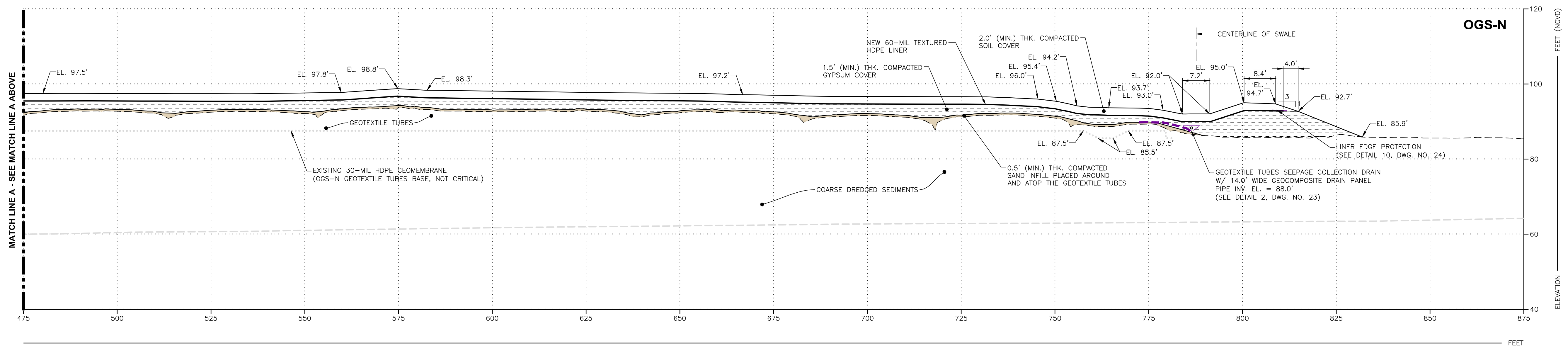
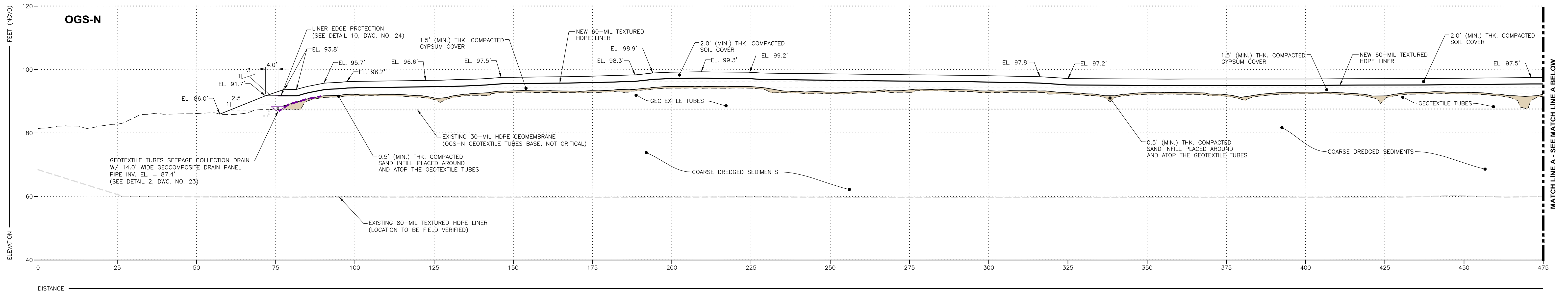
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TAMPA, FL 33606

CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

CROSS SECTION G

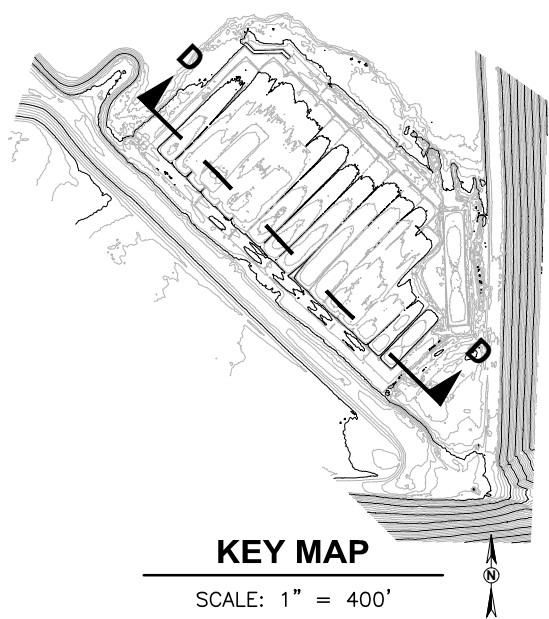
DRAWING NO.

18



H CROSS SECTION

SCALE: 1" = 15'



- NOTES:**
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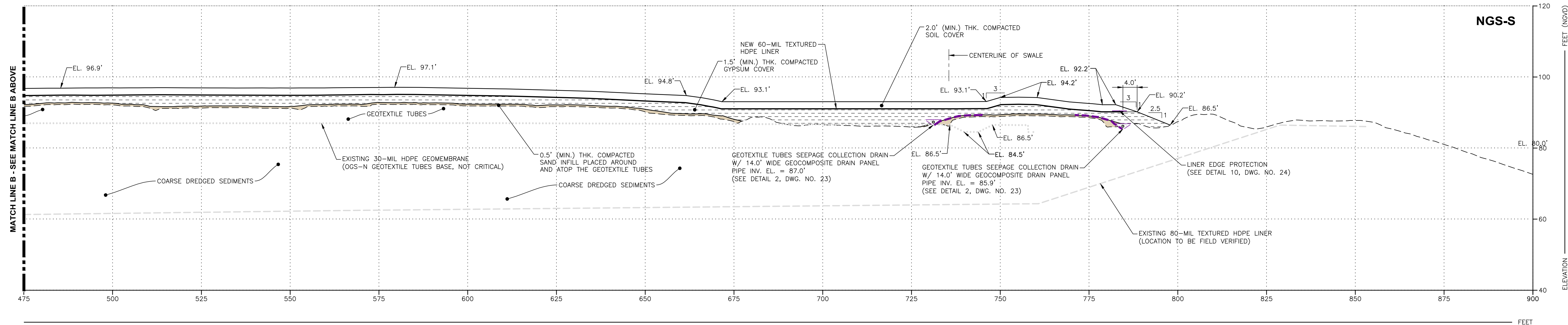
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CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

CROSS SECTION H

DRAWING NO.

19

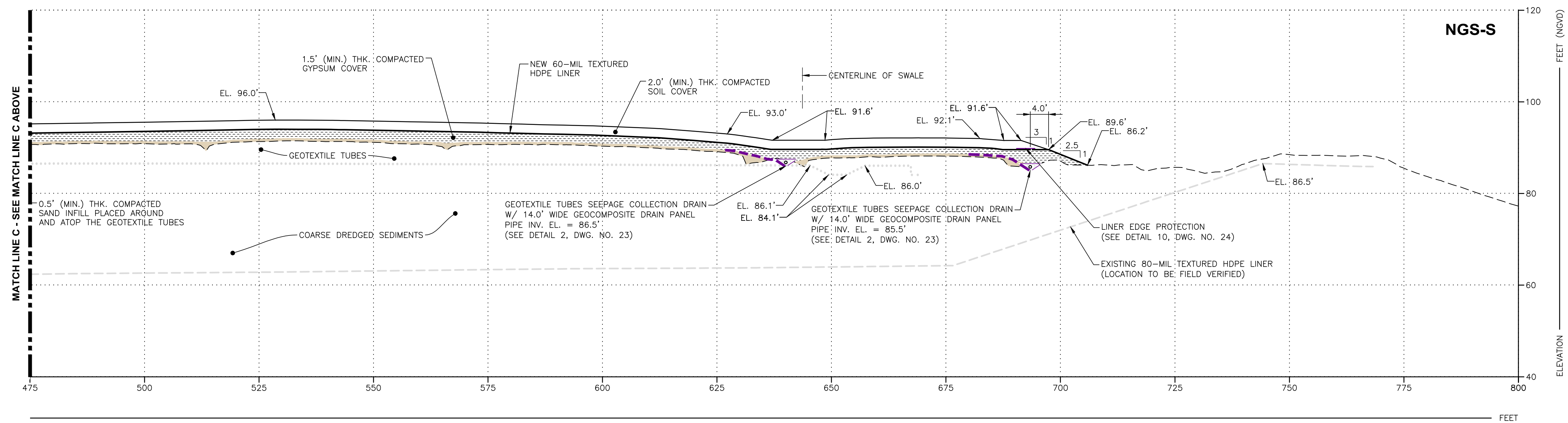
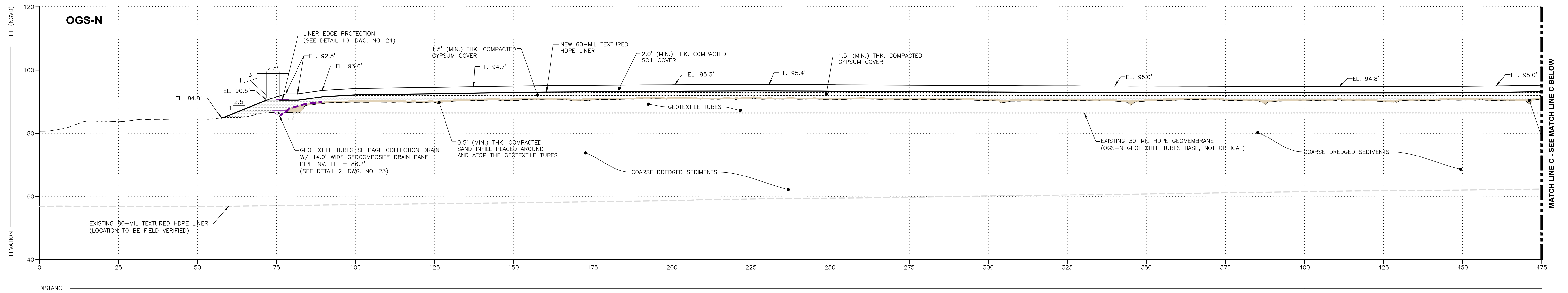


KEY MAP

SCALE: 1" = 400'

- NOTES:
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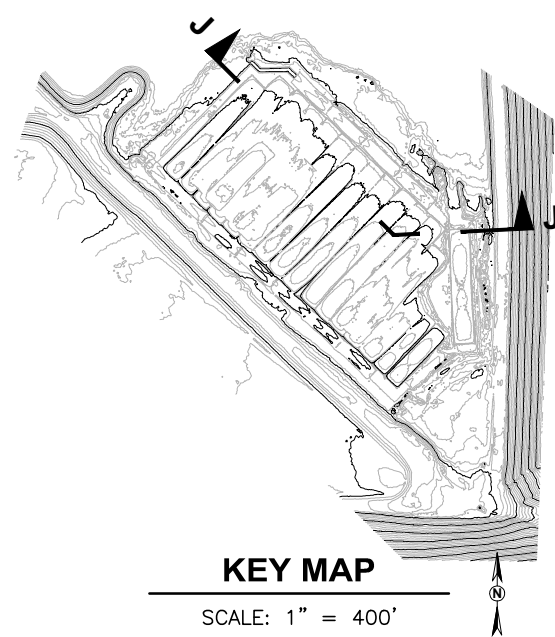
20



J CROSS SECTION

SCALE: 1" = 15'

10 12
11 13
14 15



- NOTES:
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FILE NO.:	21-13-0031C	APPROVED BY: M. AL-HAWAREE	PROFESSIONAL ENGINEER

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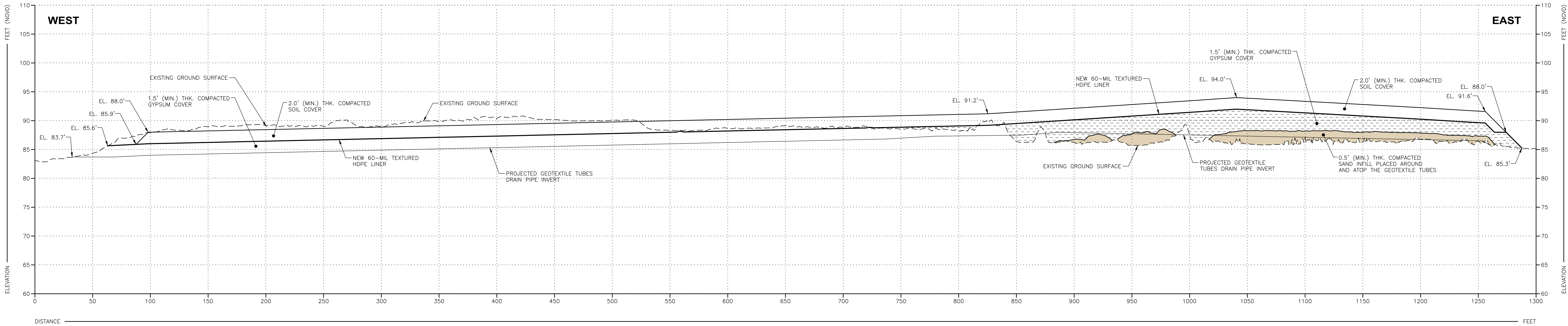
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PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

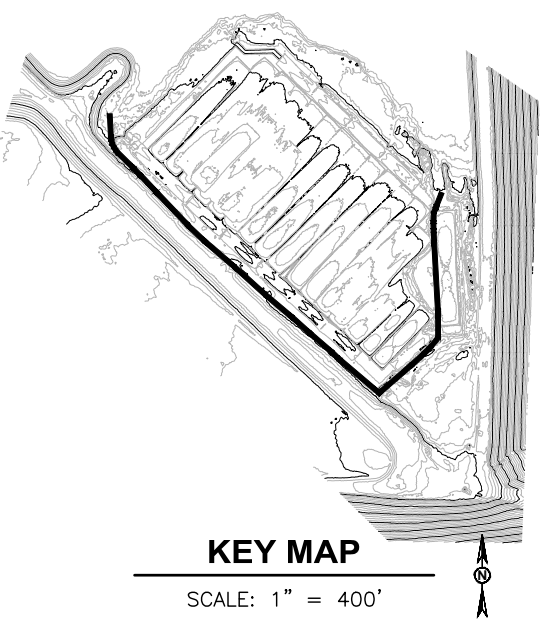
CROSS SECTION J

DRAWING NO.

21



SWALE PROFILE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 8'



- NOTES:
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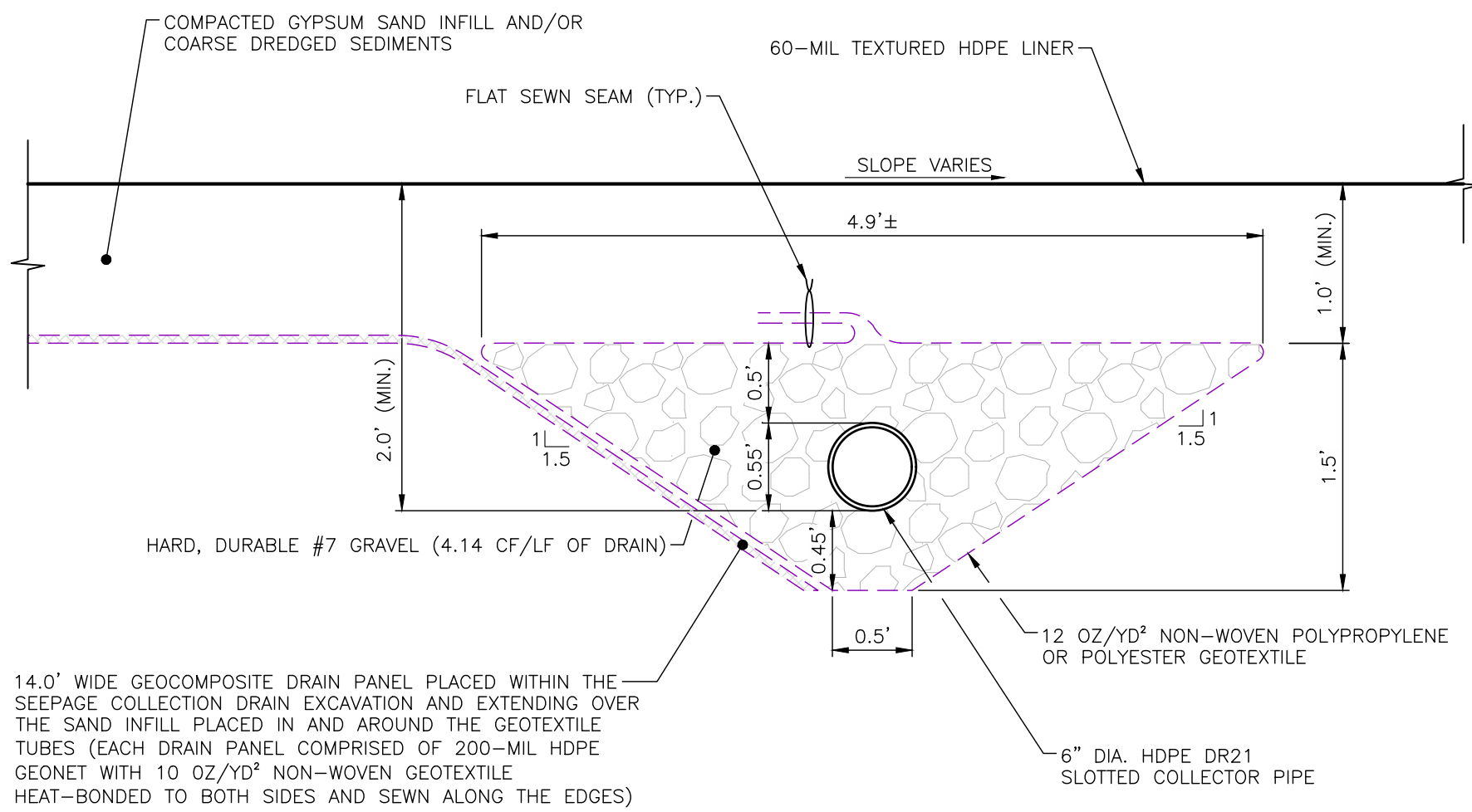
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MANATEE COUNTY, FLORIDA

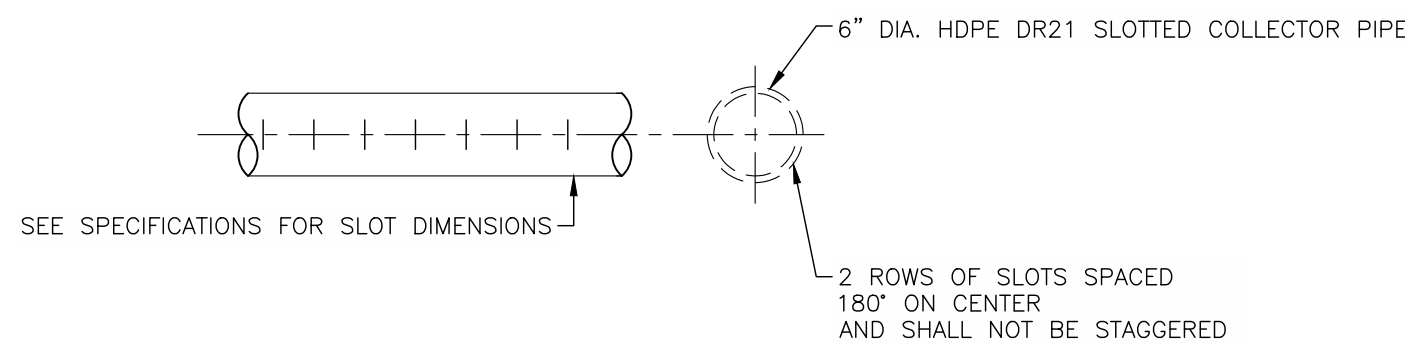
SWALE PROFILE

DRAWING NO.

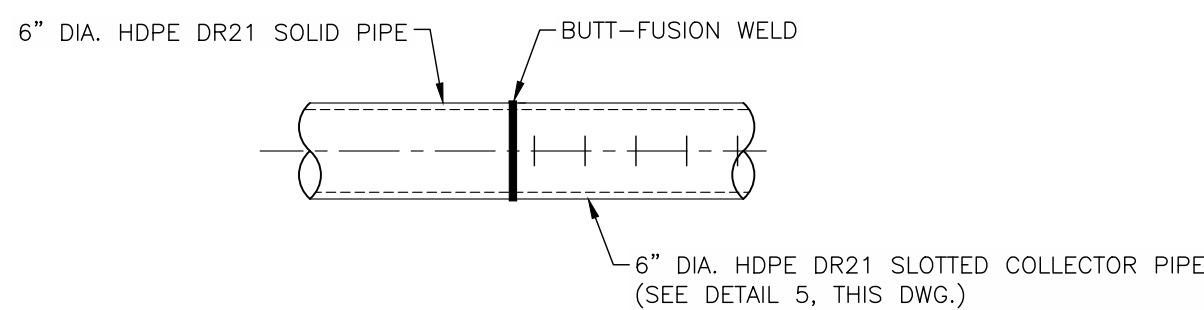
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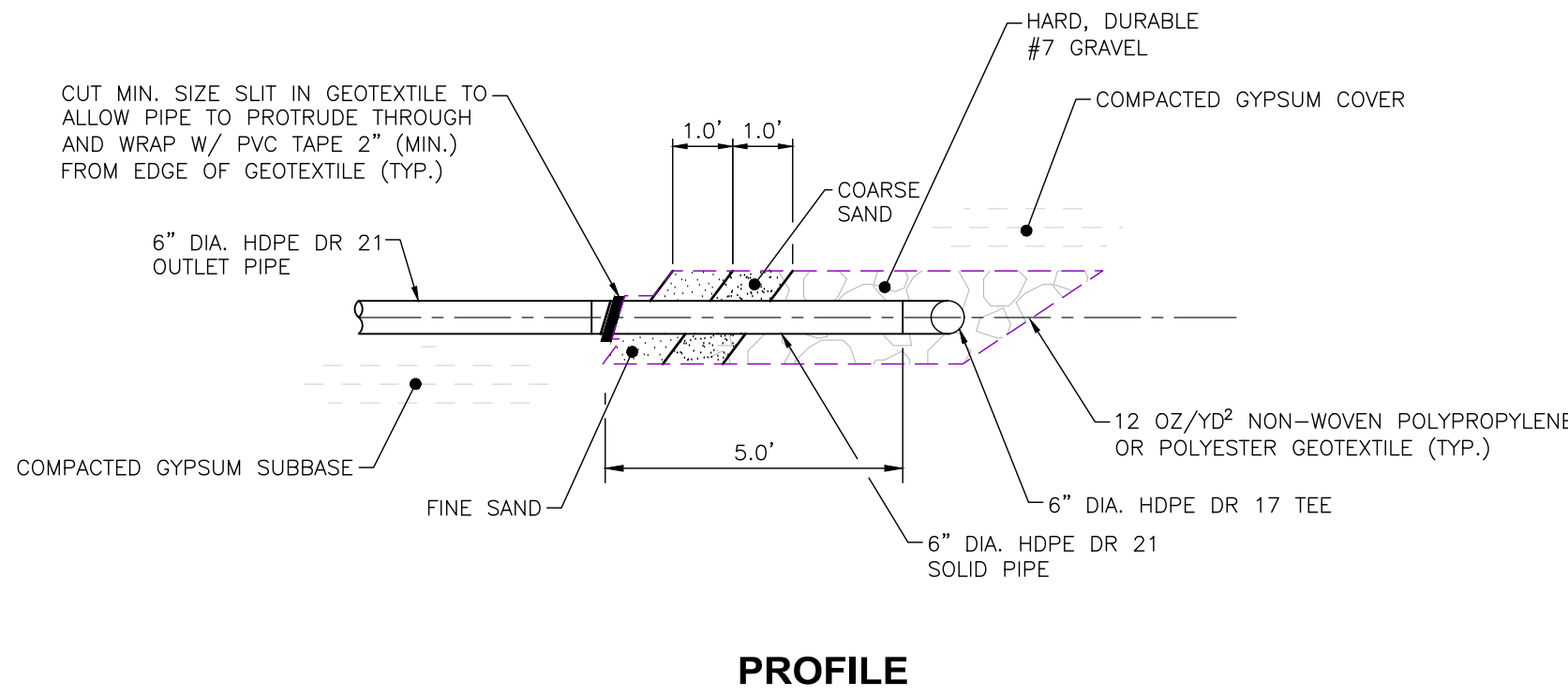
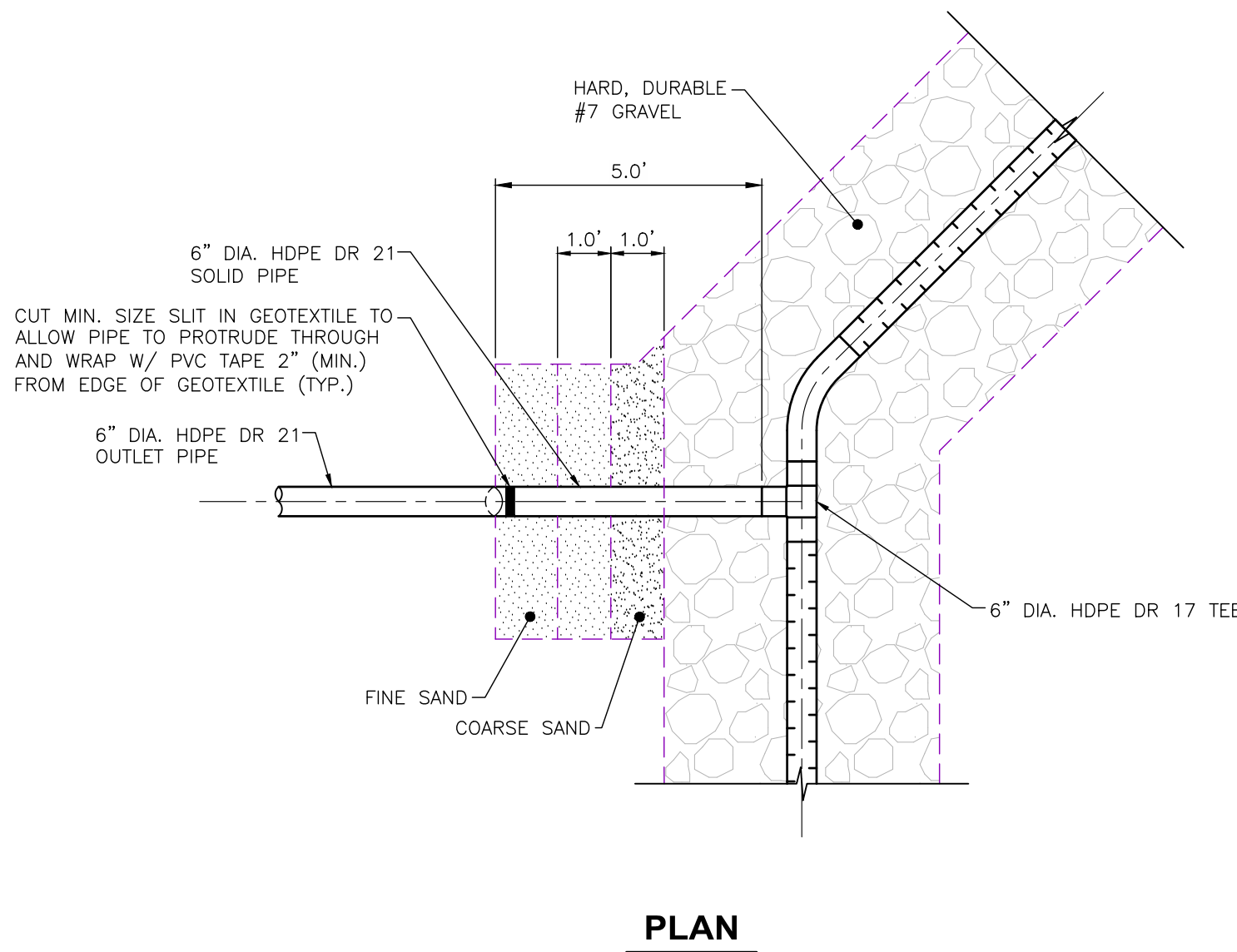
2
TYP.
GEOTEXTILE TUBES SEEPAGE COLLECTION DRAIN DETAIL
SCALE: 1" = 1'



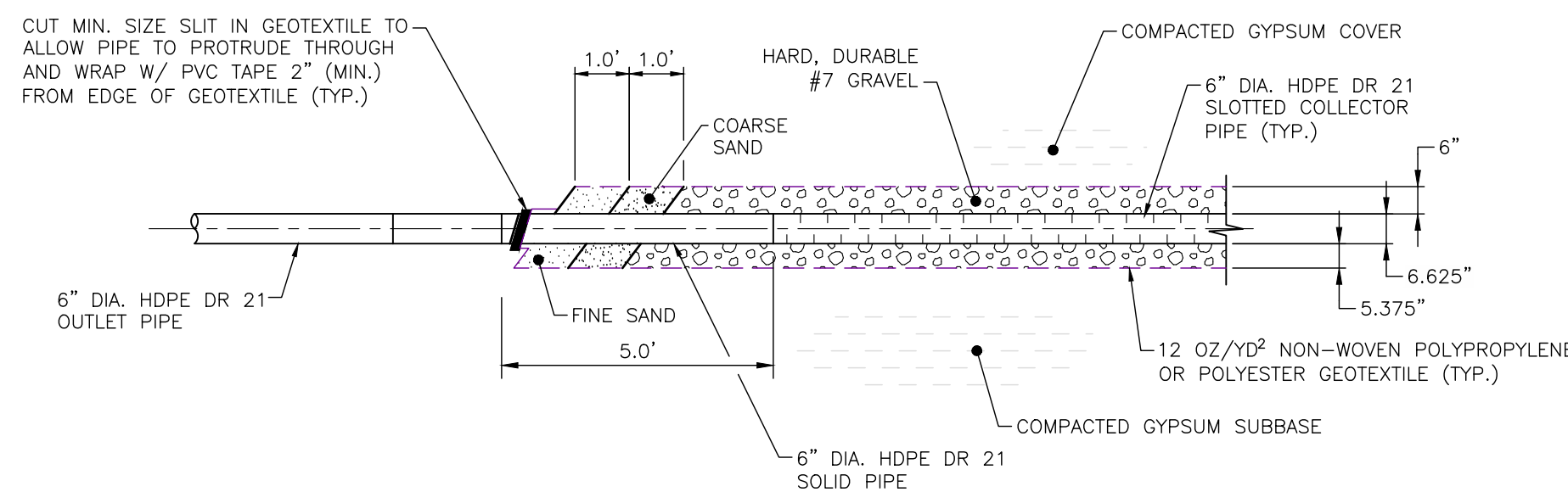
3
-
HDPE SLOTTED COLLECTOR PIPE DETAIL
SCALE: 1" = 1'



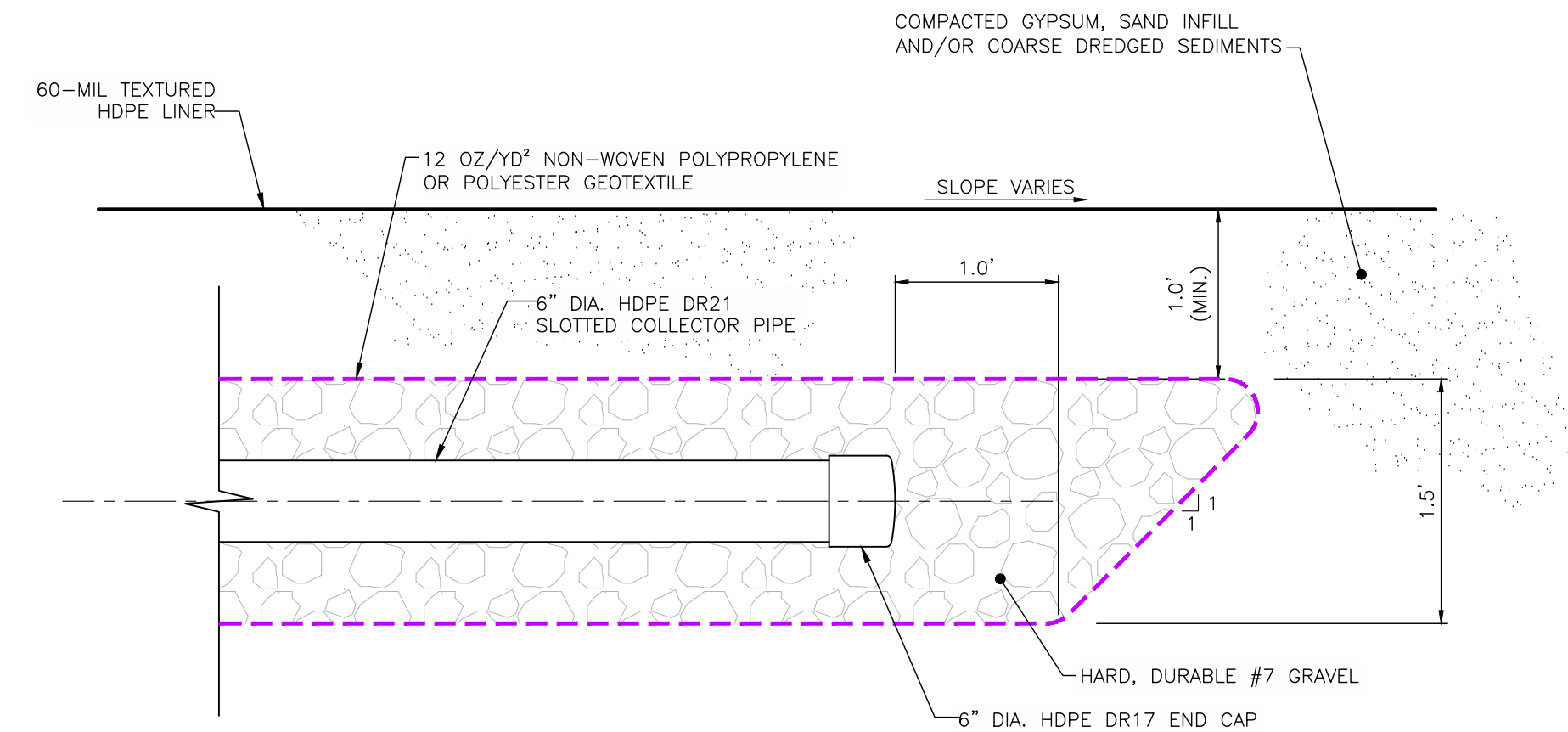
4
-
HDPE SOLID PIPE TO HDPE SLOTTED COLLECTOR PIPE CONNECTION DETAIL
SCALE: 1" = 1'



5
TYP.
COLLECTION DRAIN TO OUTLET TRANSITION DETAIL AT NORTHWEST AND NORTHEAST CORNER
SCALE: 1" = 3'



6
TYP.
COLLECTION DRAIN TO OUTLET TRANSITION DETAIL AT SOUTHWEST CORNER
SCALE: 1" = 3'



7
-
DETAIL AT BEGINNING OF GEOTEXTILE TUBES SEEPAGE COLLECTION DRAIN SEGMENTS
SCALE: 1" = 1'

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APPROVED BY: M. AL-HAWAREE		

Ardaman & Associates, Inc.
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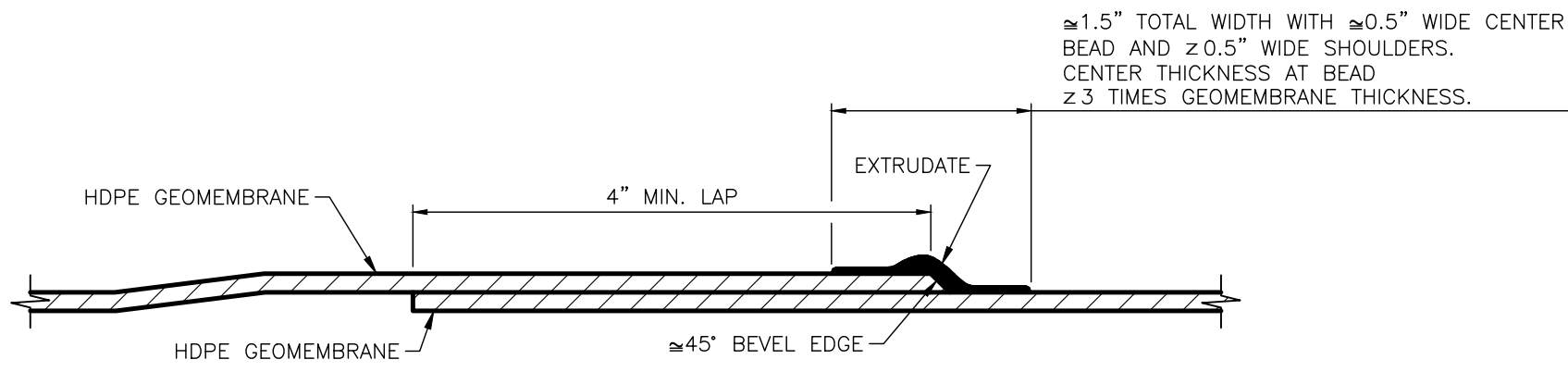
DONICA RECEIVERSHIP SERVICES, LLC
301 W. PLATT ST., #A 410
TAMPA, FL 33606

CONSTRUCTION DRAWINGS FOR CLOSURE OF
OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT
PHOSPHOGYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

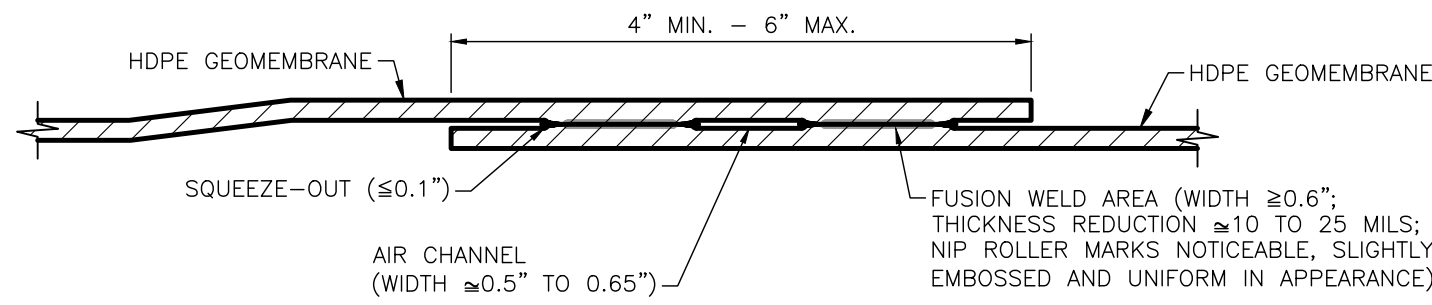
GEOTEXTILE TUBES SEEPAGE COLLECTION DRAIN DETAILS

DRAWING NO.

23



TYPICAL EXTRUSION FILLET WELD

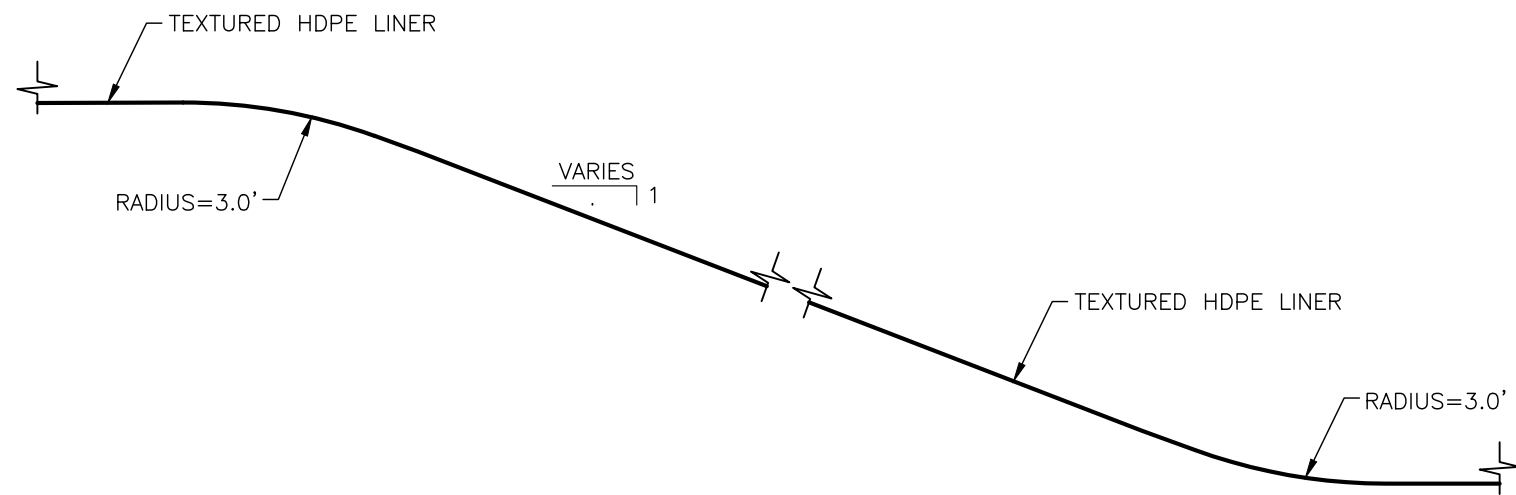


TYPICAL DOUBLE-WEDGE FUSION WELD

8 FUSION AND EXTRUSION WELD DETAILS

TYP.

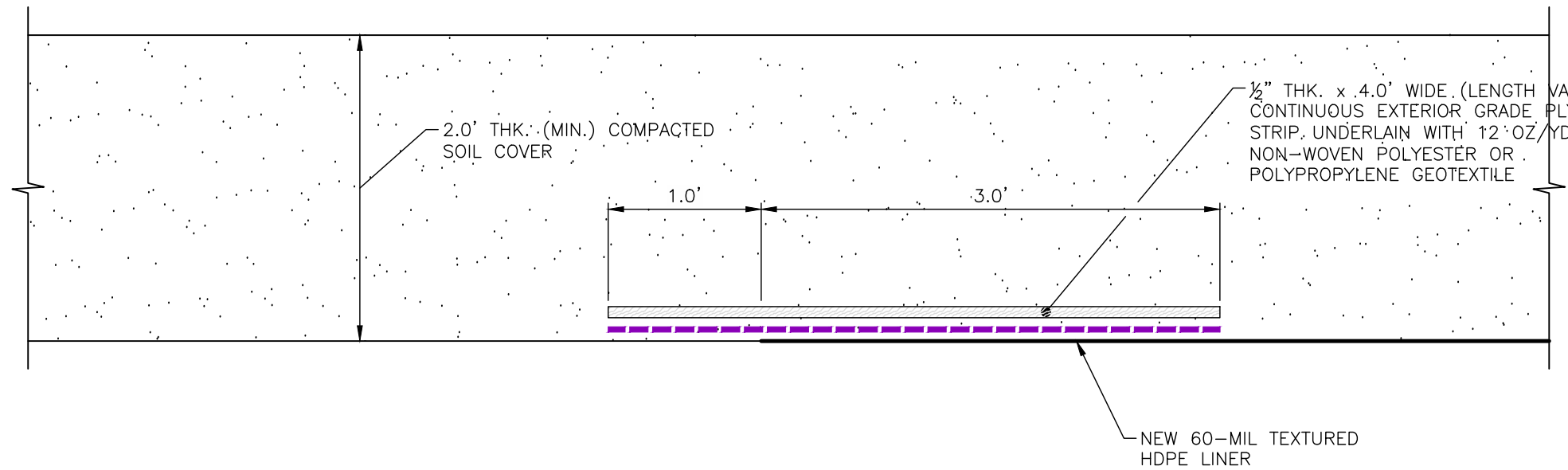
NOT TO SCALE



9 SEQUENCING FOR LINER TIE-IN TO EXISTING OGS-S LINER

TYP.

NOT TO SCALE



10 LINER EDGE PROTECTION DETAILS ALONG OPEN EDGES OF GEOTEXTILE TUBES AREA

TYP.

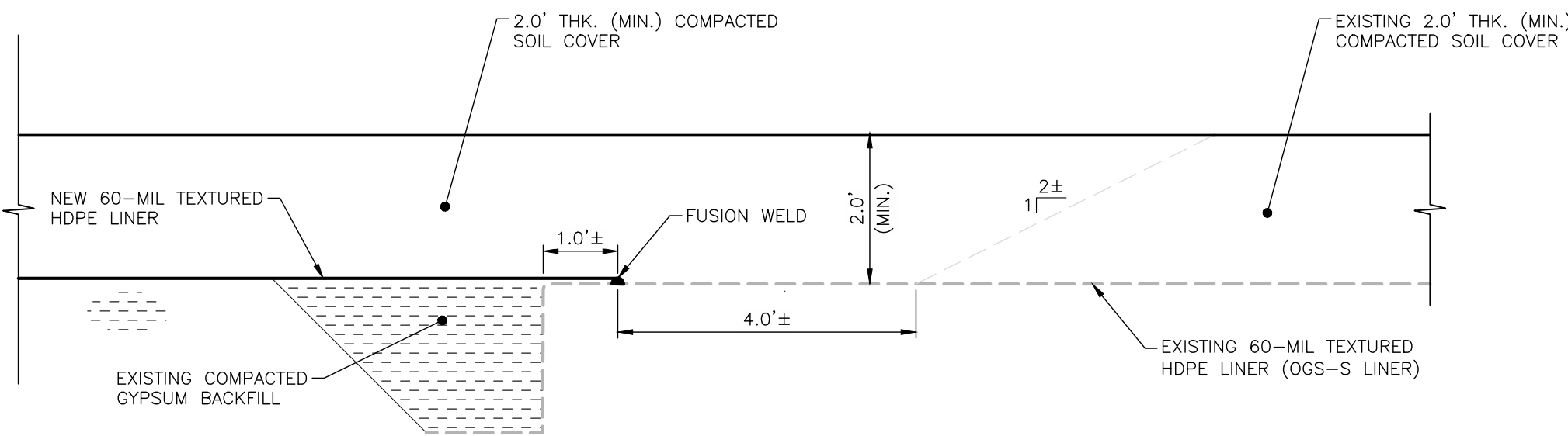
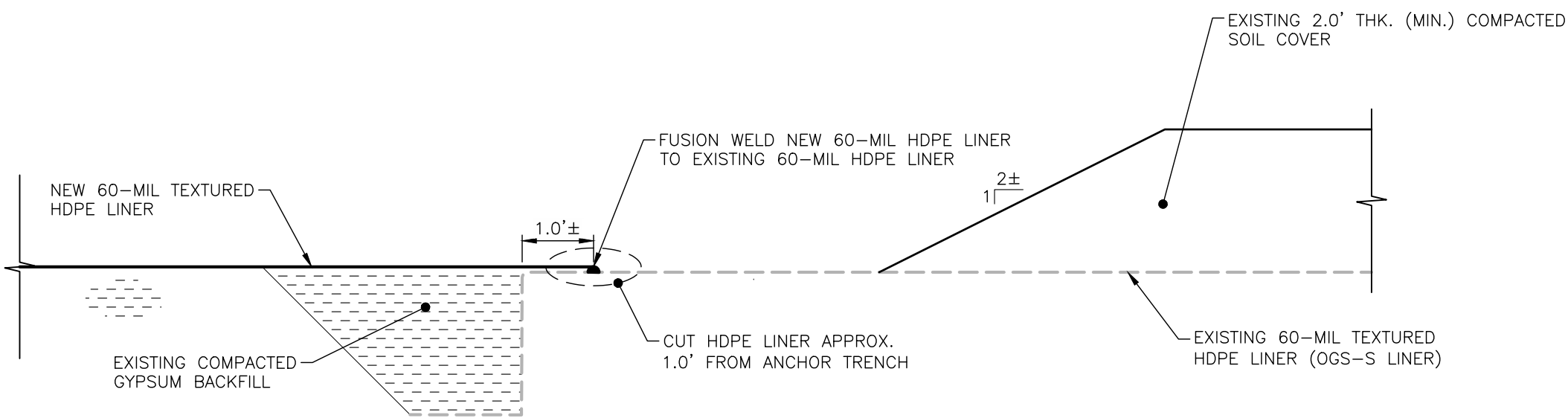
SCALE: 1" = 1'

STEP 1

- REMOVE SOIL COVER FROM EXISTING OGS-S LINER EDGE TO EXPOSE ANCHOR TRENCH AND 3 TO 4 FEET OF LINER RUNOUT.
- CUT EXISTING LINER APPROXIMATELY 1.0 FOOT FROM THE ANCHOR TRENCH.
- THOROUGHLY CLEAN THE EXISTING HDPE LINER EDGE PRIOR TO FUSION WELDING TO THE NEW 60-MIL TEXTURED HDPE LINER.

STEP 2

- PLACE A 2.0' THK. (MIN.) LAYER OF COMPACTED SOIL COVER OVER THE LINER CONNECTION.



11 SEQUENCING FOR LINER TIE-IN TO EXISTING OGS-S LINER

TYP.

SCALE: 1" = 1'

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Mohamad Al-Hawaree, State of Florida, Professional Engineer, License No. 58537.

This item has been digitally signed and sealed by Mohamad Al-Hawaree on the date adjacent to the signature.

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REVISION	DATE	DESCRIPTION
0	08/22/25	ISSUED FOR CONSTRUCTION
P2	06/25/25	ISSUED FOR BID
P1	06/18/25	ISSUED FOR CLIENT REVIEW (100% SUBMITTAL)

NAME	DATE	DATE
DESIGNED BY	CAB	05/13/25
DRAWN BY	AFH	05/13/25
FILE NO.	21-13-0031C	
APPROVED BY	M. AL-HAWAREE	

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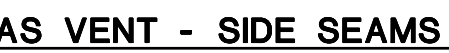
TYPICAL LINER DETAILS

DRAWING NO.

24



SCALE: 1" = 2'



14 GEOCOMPOSITE GAS VENT SEAM DETAILS

NOT TO SCALE

25