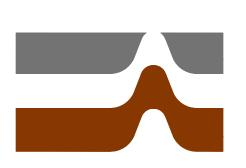
CONSTRUCTION DRAWINGS FOR CLOSURE OF OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT PHOSPHOGYPSUM STACK SYSTEM MANATEE COUNTY, FLORIDA

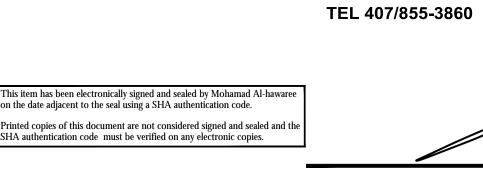
FOR DONICA RECEIVERSHIP SERVICES, LLC 301 W. PLATT ST., #A 410 TAMPA, FL 33606

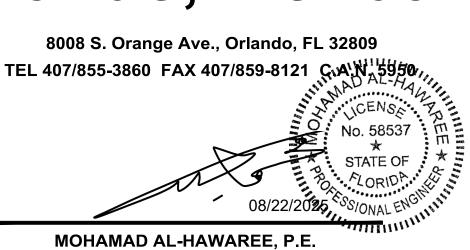
AUGUST 2025

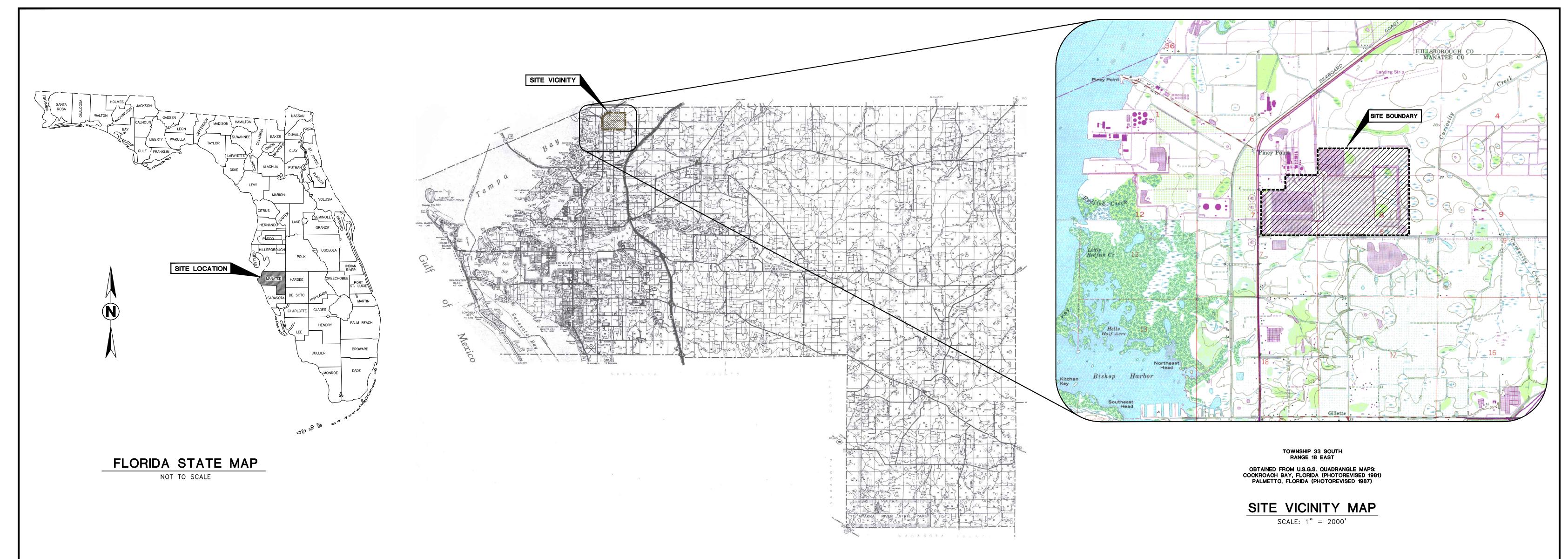


Prepared By Ardaman & Associates, Inc. Orlando, Florida

Florida License No. 58537







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

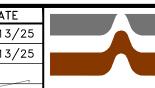
INDEX OF DRAWINGS Sheet Sheet Title Number COVER SHEET INDEX OF DRAWINGS AND PROJECT LOCATION MAPS GENERAL NOTES, ABBREVIATIONS AND SYMBOLS AERIAL PHOTOGRAPH OF PINEY POINT FACILITY TOPOGRAPHIC SURVEY OF PINEY POINT FACILITY ACCESS ROAD AND STAGING AREAS MAP GYPSUM BORROW AREA PLAN **DEMOLITION PLAN** ALIGNMENT PLAN SAND COVER PLAN GEOTEXTILE TUBES SEEPAGE COLLECTION DRAIN PLAN GYPSUM COVER PLAN GAS VENT SYSTEM PLAN LINER LAYOUT PLAN SOIL COVER AND FINAL GRADING PLAN CROSS SECTIONS C AND D CROSS SECTIONS E AND F CROSS SECTION G CROSS SECTION H 20 CROSS SECTION I CROSS SECTION J 22 SWALE PROFILE GEOTEXTILE TUBES SEEPAGE COLLECTION DRAIN DETAILS TYPICAL LINER DETAILS GAS VENT DETAILS 25

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

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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

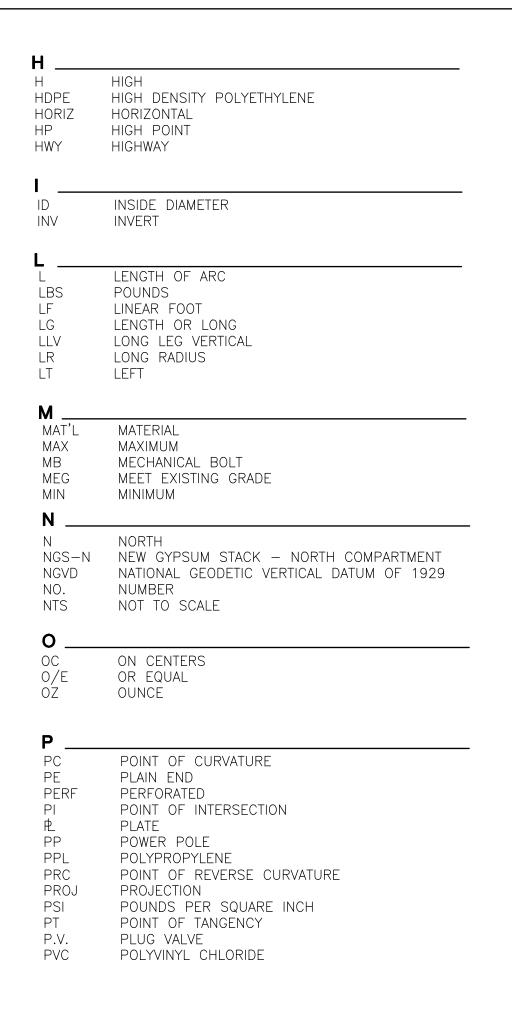
DONICA RECEIVERSHIP SERVICES, LLC 301 W. PLATT ST., #A 410 TAMPA, FL 33606 CONSTRUCTION DRAWINGS FOR CLOSURE OF OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT PHOSPHOGYPSUM STACK SYSTEM

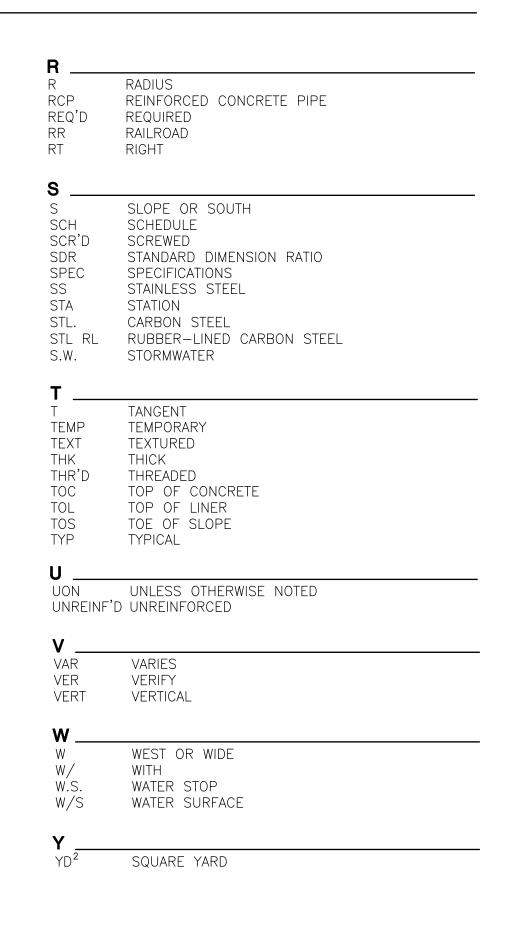
MANATEE COUNTY, FLORIDA

INDEX OF DRAWINGS AND PROJECT LOCATION MAPS

ABBREVIATIONS

ANCHOR ANCHOR BOLT ACI AMERICAN CONCRETE INSTITUTE ADAPTER ADAPT AR'D AROUND AMERICAN SOCIETY FOR TESTING AND MATERIALS BOTTOM BUTTERFLY VALVE BF.V. BLIND FLANGE BALL VALVE CENTERLINE CLR CLEAR CONC CONCRETE CONNECTION CONT CONTINUATION OR CONTINUOUS COR CORNER CORR CORRUGATED COUNTY ROAD DIAMETER DISCH DISCHARGE DWG DRAWING CURVE ANGLE EAST EACH ECC ECCENTRIC ELEVATION (feet, NGVD) ELBOW EACH WAY EXISTING EXP EXPANSION EXTENSION FABRICATED FINISH GRADE FINISH FLG FLANGE FLG'D FLANGED FOOT GALVANIZED GRADE





GENERAL NOTES

- 1. THE CONTRACTOR SHALL CAREFULLY EXAMINE AND INSPECT THE CONSTRUCTION SITE AND ITS SURROUNDING AREAS PRIOR TO BID SUBMITTAL TO FAMILIARIZE HIMSELF WITH THE LATEST SITE CONDITIONS AND TO INDEPENDENTLY VERIFY THE EFFORTS THAT WILL BE REQUIRED TO COMPLETE THE PROPOSED CONSTRUCTION.
- 2. THE CONTRACTOR SHALL INDEPENDENTLY VERIFY CONSTRUCTION MATERIAL QUANTITIES BASED ON THE LATEST SITE CONDITIONS, THE PROVIDED TOPOGRAPHIC SURVEY, ANY ADDITIONAL TOPOGRAPHIC SURVEYS PERFORMED BY THE CONTRACTOR FOR VERIFICATION, AND THE CONSTRUCTION DRAWINGS.
- 3. THE EXISTING AND DESIGN ELEVATIONS ON ALL DRAWINGS ARE BASED ON A 1-FOOT INTERVAL TOPOGRAPHIC CONTOUR MAP CREATED FROM A LIDAR SURVEY PERFORMED ON FEBRUARY 01, 2025 BY SURVTECH, INC. THE CONTRACTOR SHALL REALIZE THAT SETTLEMENT. SHRINKAGE AND EXCAVATION MAY HAVE OCCURRED SINCE THE SURVEY WAS PERFORMED AND, THEREFORE, SHALL INDEPENDENTLY VERIFY THE LATEST TOPOGRAPHIC CONDITIONS PRIOR TO BID SUBMITTAL AND PRIOR TO CONSTRUCTION.
- 4. THE WATER ELEVATIONS SHOWN ON THE DRAWINGS ARE VALID ONLY FOR THE DATES OF THE SURVEYS. WATER LEVELS ARE EXPECTED TO VARY WITH RAINFALL AND INFILTRATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND WATER TRANSFER FROM THE CONSTRUCTION AREA TO ONSITE LOCATIONS DESIGNATED BY THE OWNER, AS NECESSARY, TO KEEP THE CONSTRUCTION AREA DEWATERED AND WELL-DRAINED UNTIL CONSTRUCTION HAS BEEN COMPLETED.
- 5. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE RECEIVER, OTHER CONTRACTORS AND SUBCONTRACTORS THAT ARE PERFORMING TASKS AT OR NEAR THE CONSTRUCTION SITE.
- 6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD-VERIFY BENCHMARK LOCATIONS AND ELEVATIONS TO CONFIRM THAT THE TOPOGRAPHIC MAP ELEVATIONS ARE CONSISTENT WITH THE CONTRACTOR'S SURVEYED BENCHMARK ELEVATIONS.

- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EARTHWORK OPERATIONS, INCLUDING ANY REQUIRED DEWATERING ACTIVITIES, TO ACHIEVE THE DESIGN GRADE FOR PLACEMENT OF THE LINER SYSTEM BY THE LINER INSTALLER, AND TO ACHIEVE THE FINAL DESIGN GRADE AFTER PLACEMENT OF THE LINER COVER SOILS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMELY REPAIR OR REPLACEMENT OF STRUCTURES, EQUIPMENT, UTILITIES, PIPELINES, EXISTING LINER, OR ANY FACILITIES AND/OR OTHER ON-GOING OR COMPLETED CONSTRUCTION ITEM DAMAGED BY THE CONTRACTOR AND/OR THEIR SUBCONTRACTOR'S OPERATIONS AND/OR PERSONNEL.
- 9. THE CONTRACTOR SHALL CLEAN-UP THE WORK SITE AS MAY BE NEEDED AT THE END OF EACH WORK DAY AND AT THE END OF THE PROJECT TO MAINTAIN THE SITE IN A CLEAN AND SAFE CONDITION.

DRAWING SYMBOLS

- SECTION IDENTIFICATION LETTER

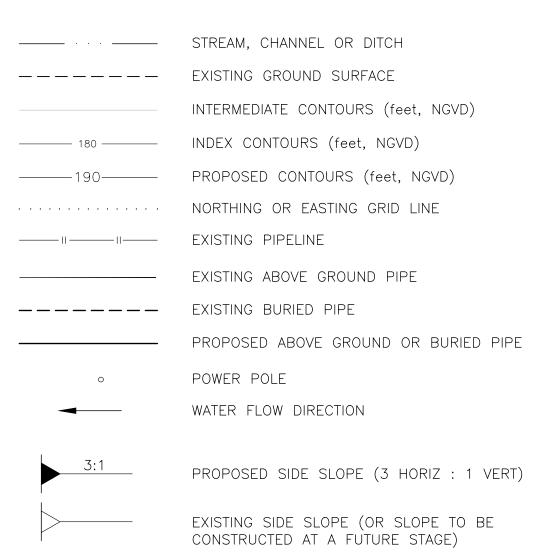
-DRAWING WHERE SECTION IS SHOWN



- DRAWING WHERE SECTION WAS TAKEN



LEGEND



SYMBOLS

EXISTING 30-MIL HDPE GEOMEMBRANE EXISTING 60-MIL OR 80-MIL TEXTURED HDPE LINER GEONET/GEOTEXTILE COMPOSITE FILTER FABRIC (GEOTEXTILE)

> OTHER SYMBOLS AS NOTED ON THE DRAWINGS

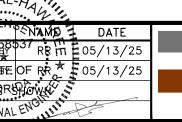
EXISTING OR PROPOSED

GROUND SURFACE

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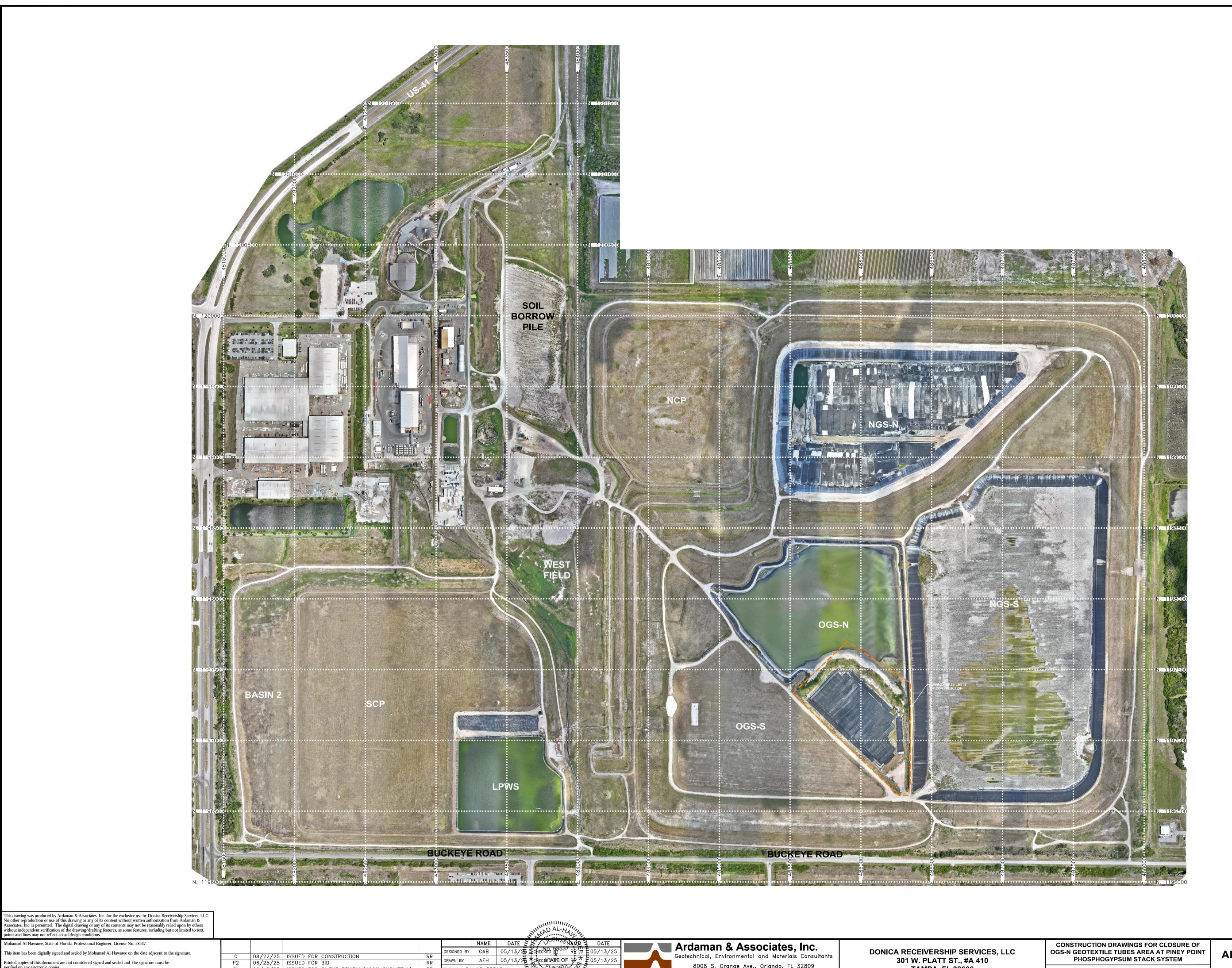
Iohamad Al-Hawaree, State of Florida, Professional Engineer, License No. 58537. This item has been digitally signed and sealed by Mohamad Al-Hawaree on the date adjacent to the signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NAME DATE SO NAME DATE DESIGNED BY CAB 05/13/25 SCHECKED BY 37 08/22/25 ISSUED FOR CONSTRUCTION AFH 05/13/25 ★CRECKETABLE OF RR ★ 505/13/25 DRAWN BY 06/25/25 ISSUED FOR BID 06/18/25 ISSUED FOR CLIENT REVIEW (100% SUBMITTAL) RR FILE NO.: 21-13-0031C REVISION DATE APPR'D APPROVED BY: M. AL-HAWAR



08/22/2025





DRAWING NO.

AERIAL PHOTOGRAPH FROM ARDAMAN AND ASSOCIATES, INC.

LEGEND

APPROXIMATE LIMITS
OF CONSTRUCTION

DATE OF PHOTOGRAPH: MAY 28, 2025

08/22/25 ISSUED FOR CONSTRUCTION 06/25/25 ISSUED FOR BID

06/18/25 ISSUED FOR CLIENT REVIEW (100% SUBMITTAL) RR

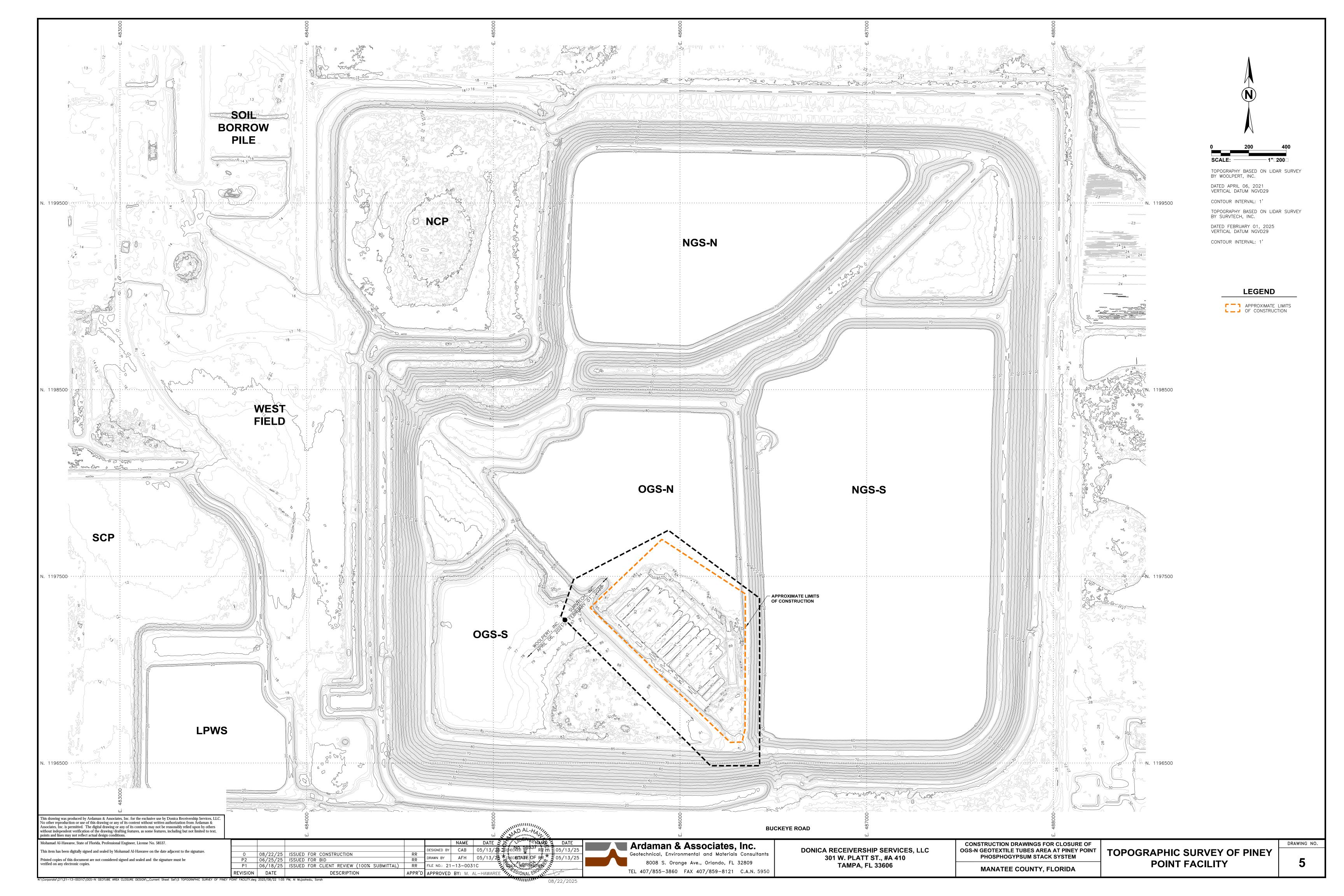
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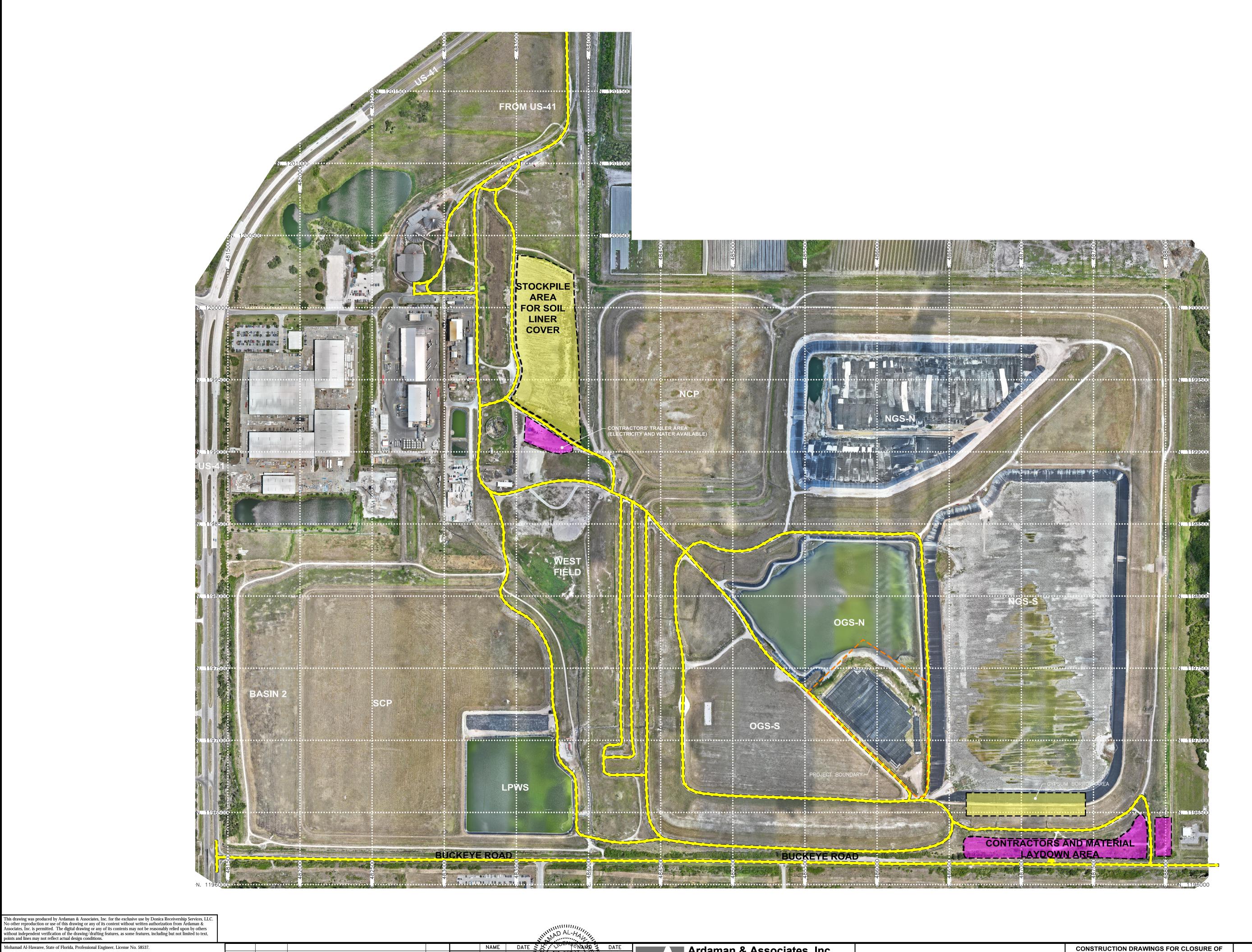
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STOREGRETABLE OF RR \$ 05/13/25

FILE NO.: 21-13-0031C

APPR'D APPROVED BY: M. AL-HAWARE





DRAWING NO. ACCESS ROAD AND STAGING 6 **AREAS MAP**

AERIAL PHOTOGRAPH FROM ARDAMAN AND ASSOCIATES, INC.

LEGEND

CONTRACTOR ACCESS

APPROXIMATE LIMITS
OF CONSTRUCTION

CONTRACTOR'S ACCESS
POINTS, LAYDOWN AREAS,
TRAILER AREAS AND
NON-POTABLE WATER SOURCE

SOIL/GYPSUM BORROW AREAS

DATE OF PHOTOGRAPH: MAY 28, 2025

08/22/25 ISSUED FOR CONSTRUCTION

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

06/25/25 ISSUED FOR BID

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

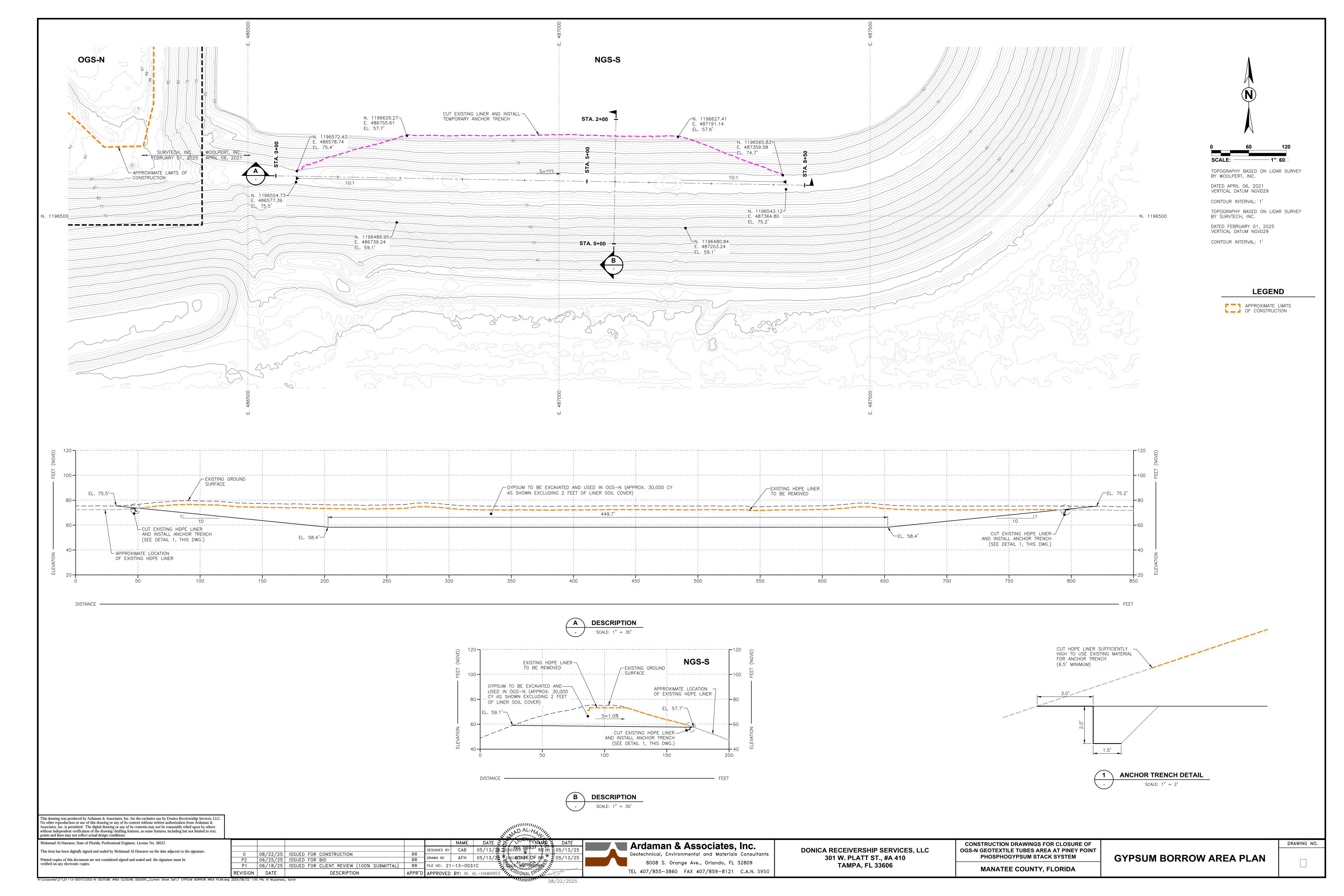
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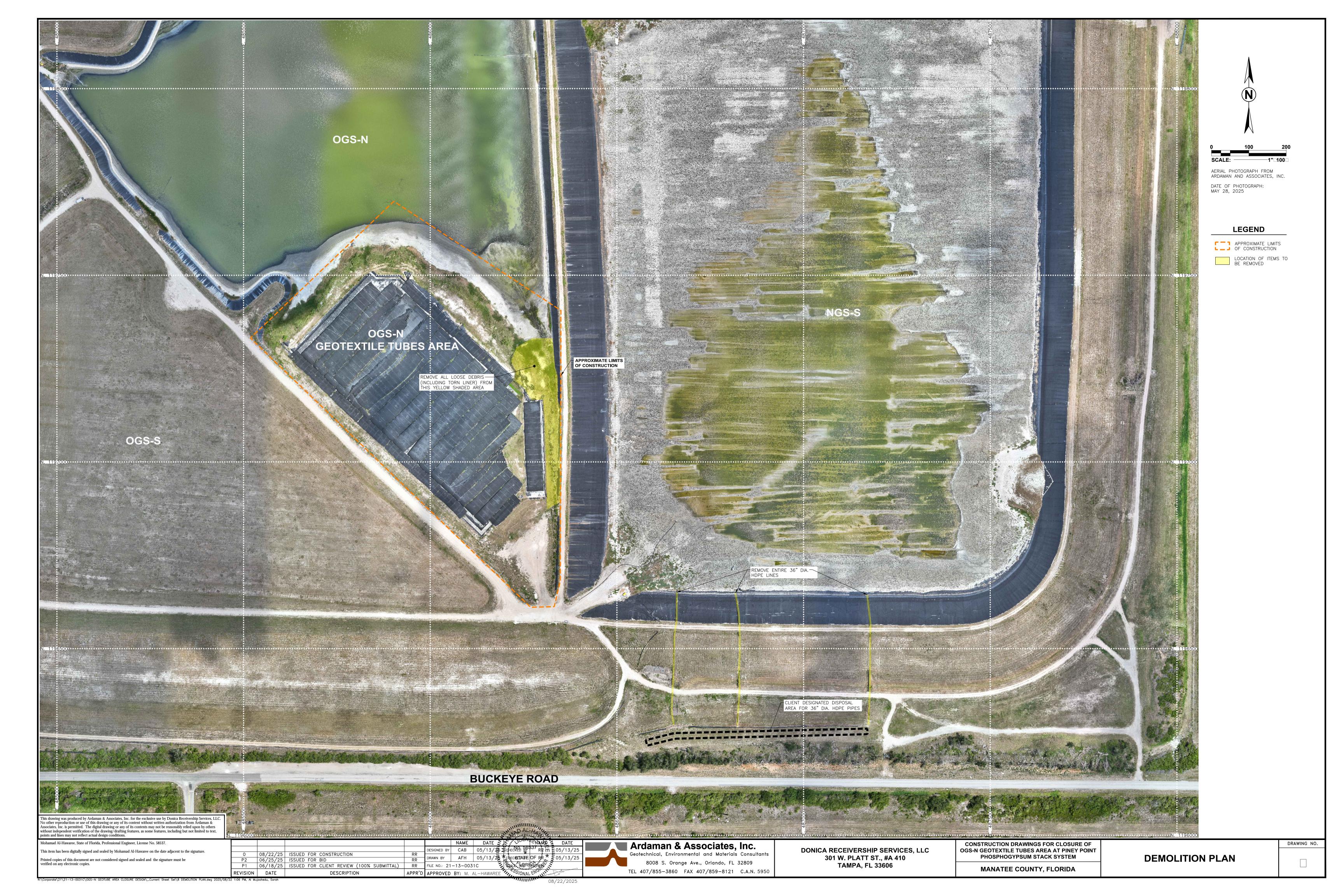
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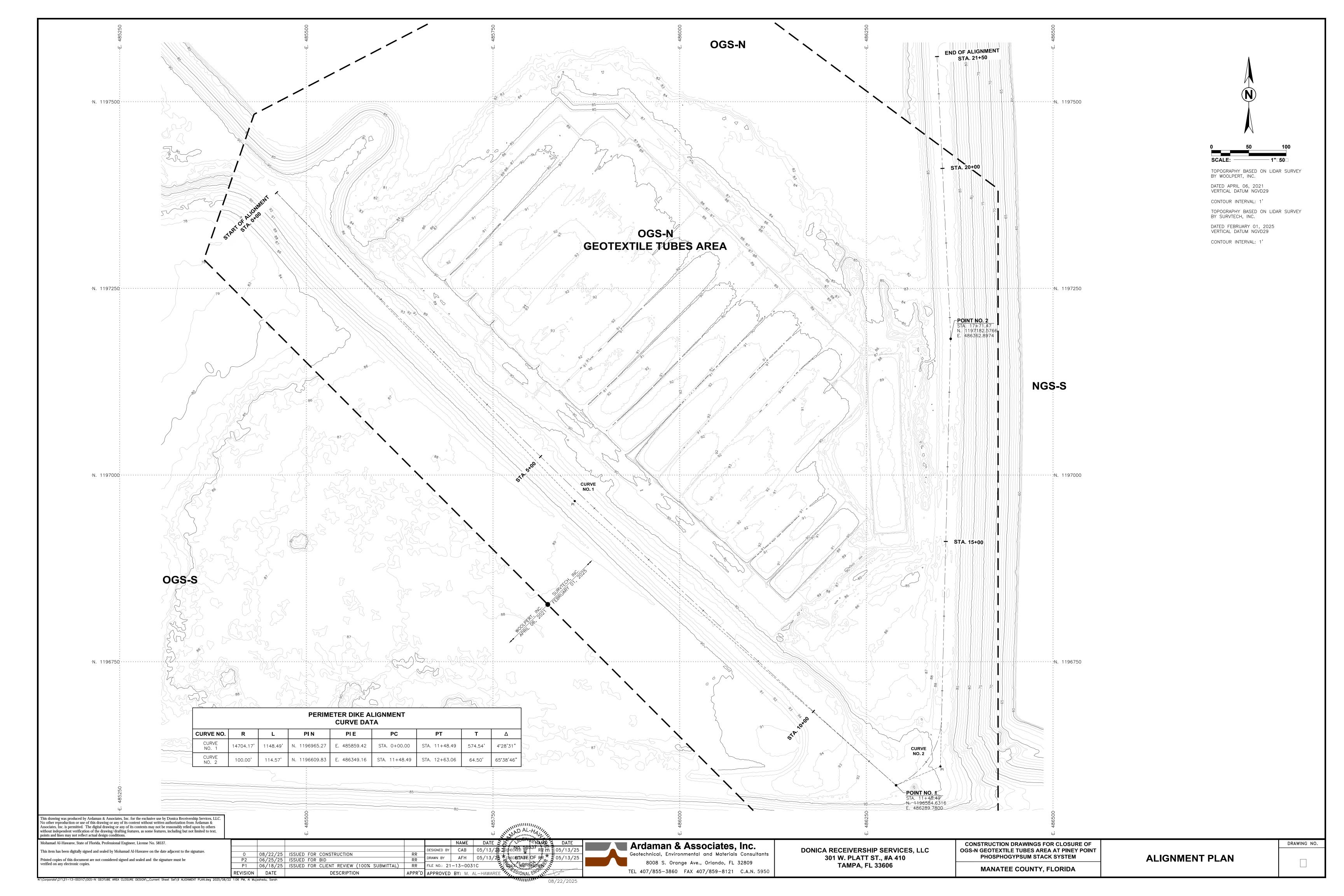
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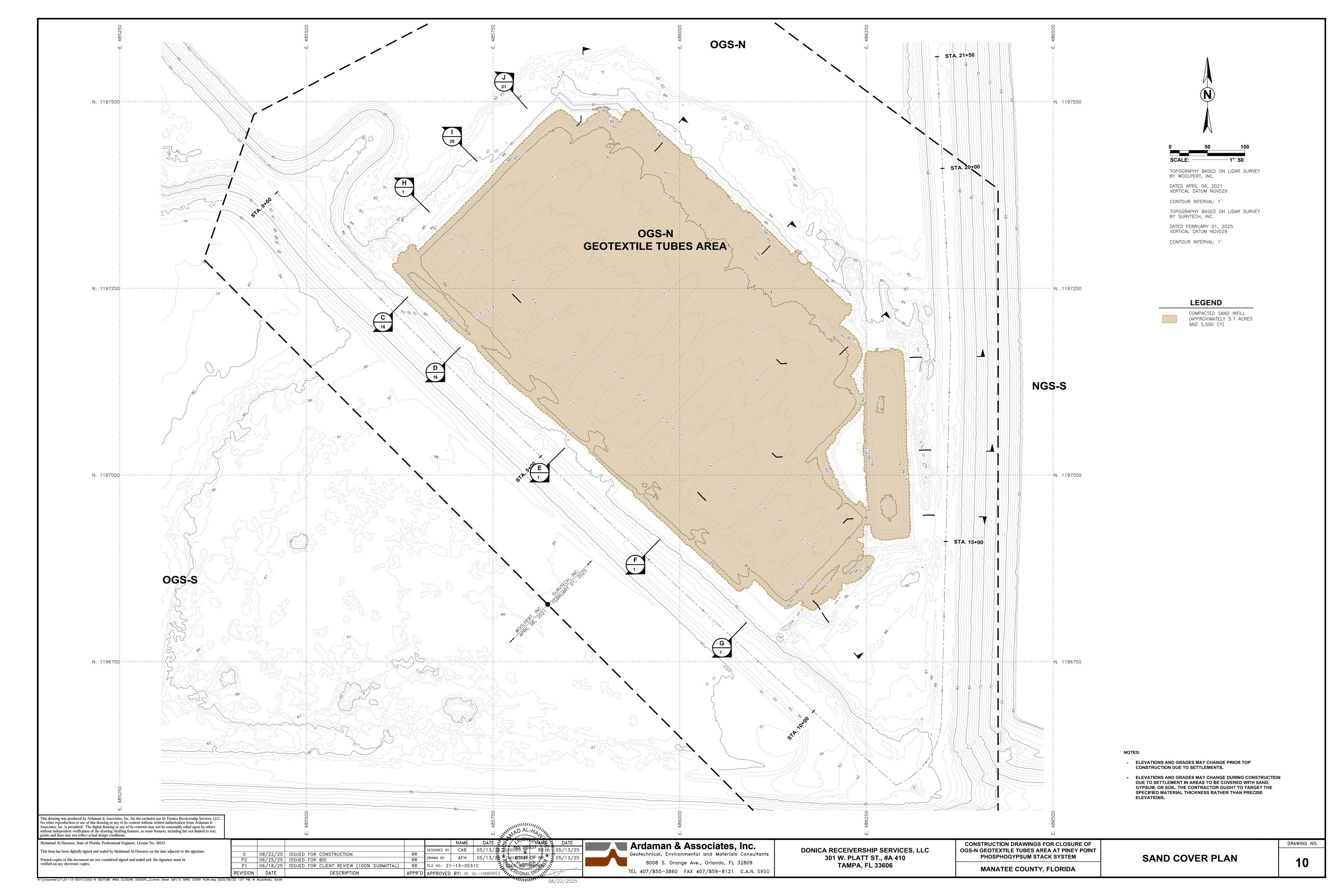
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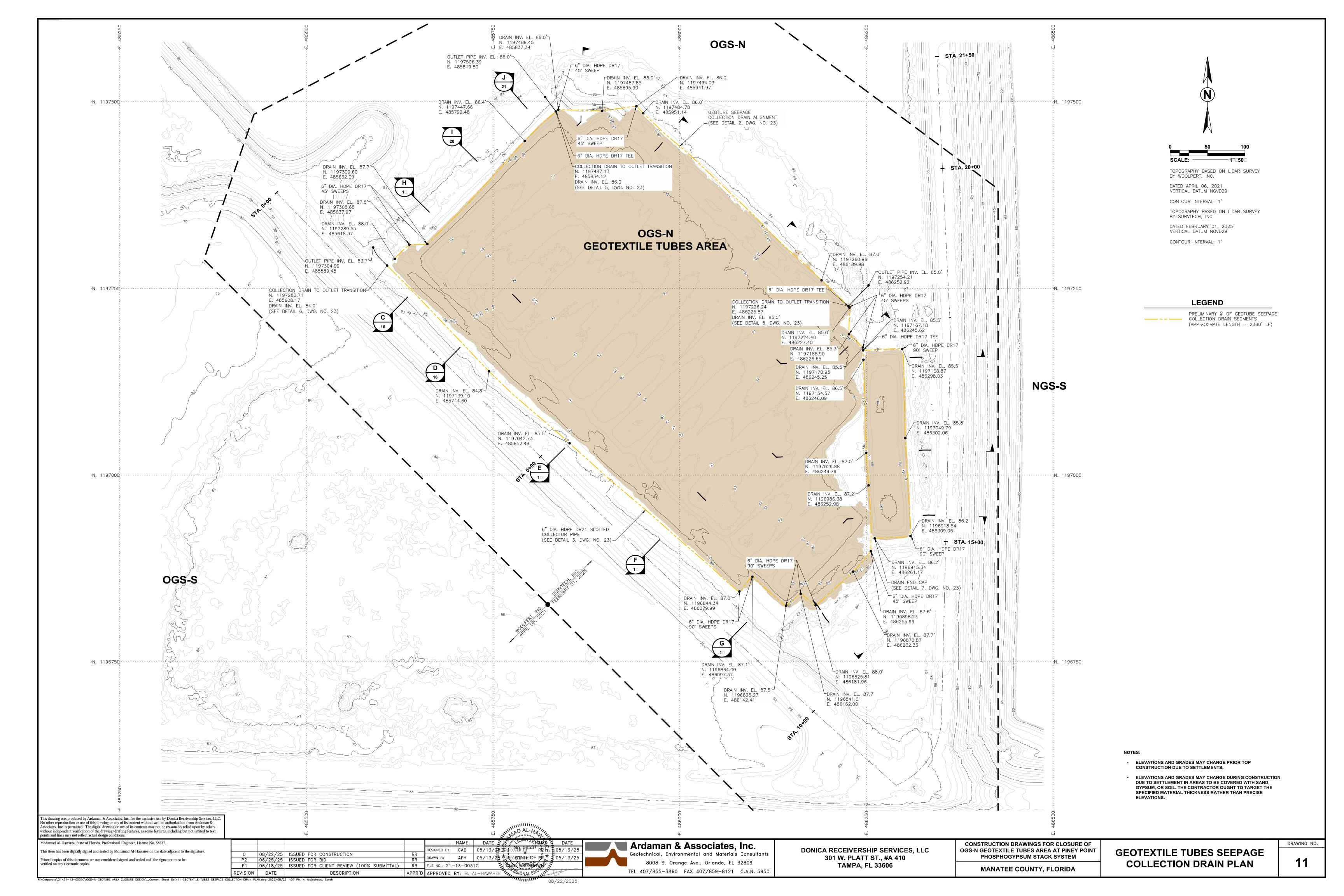
APPR'D APPROVED BY: M. AL—HAWARE

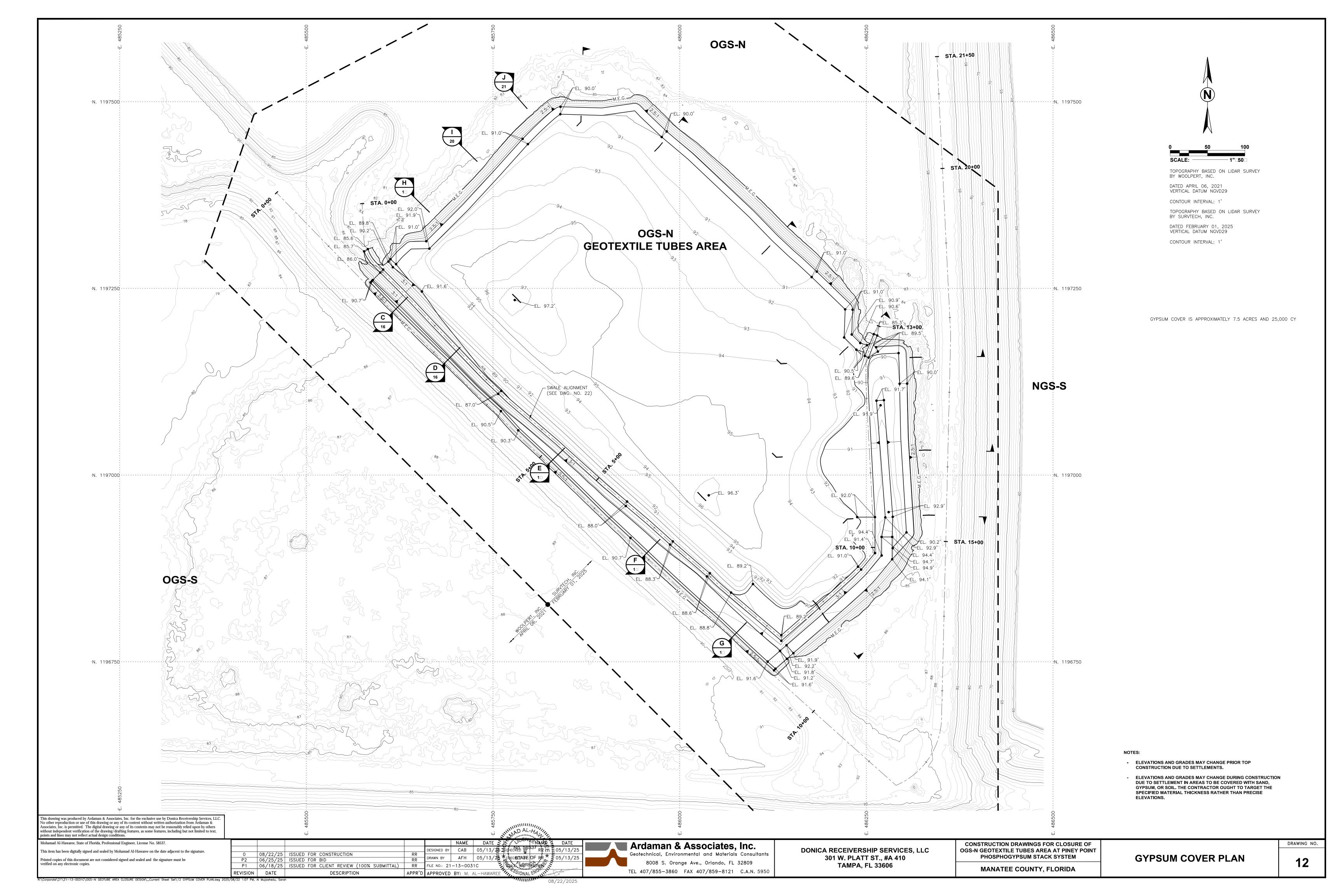


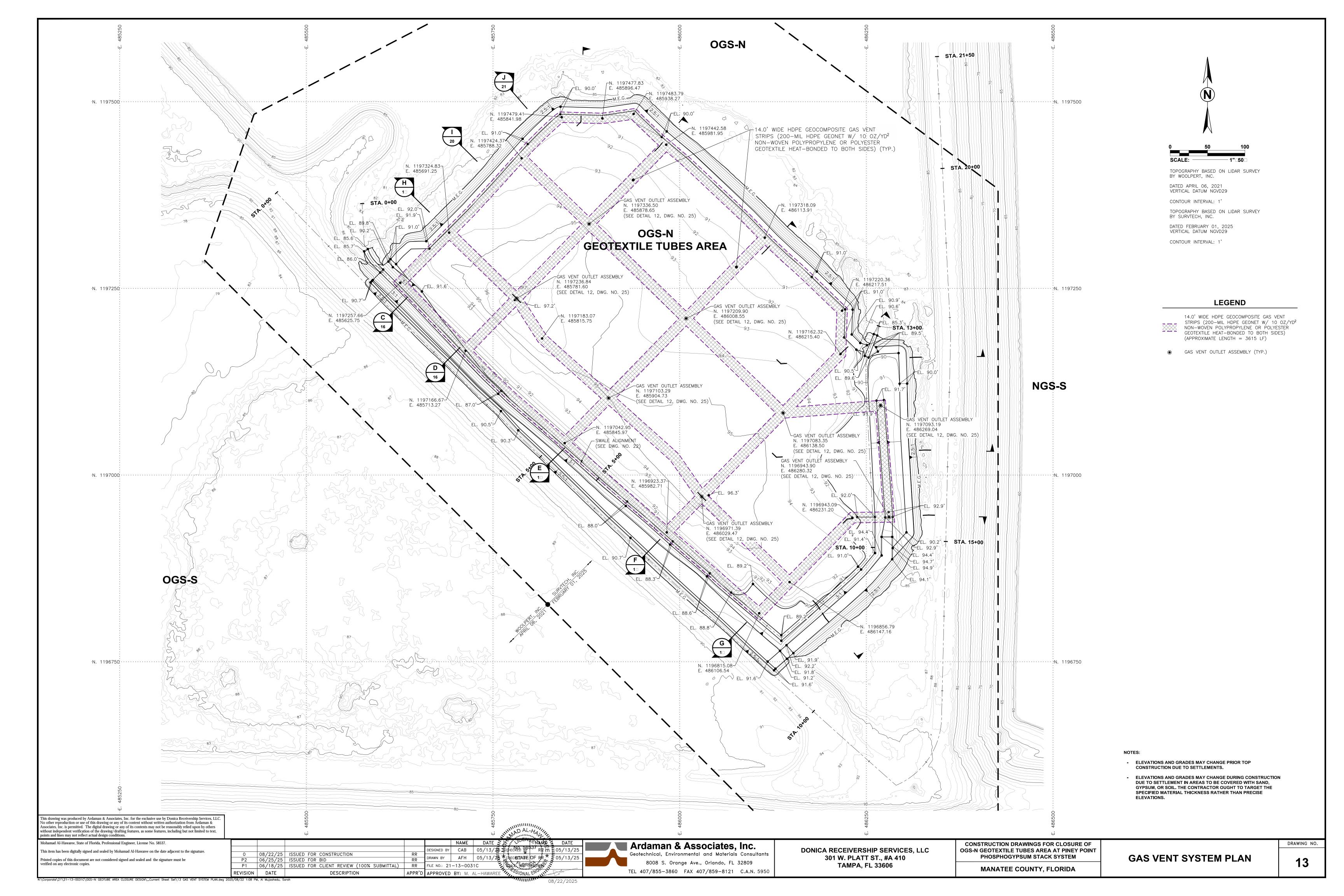


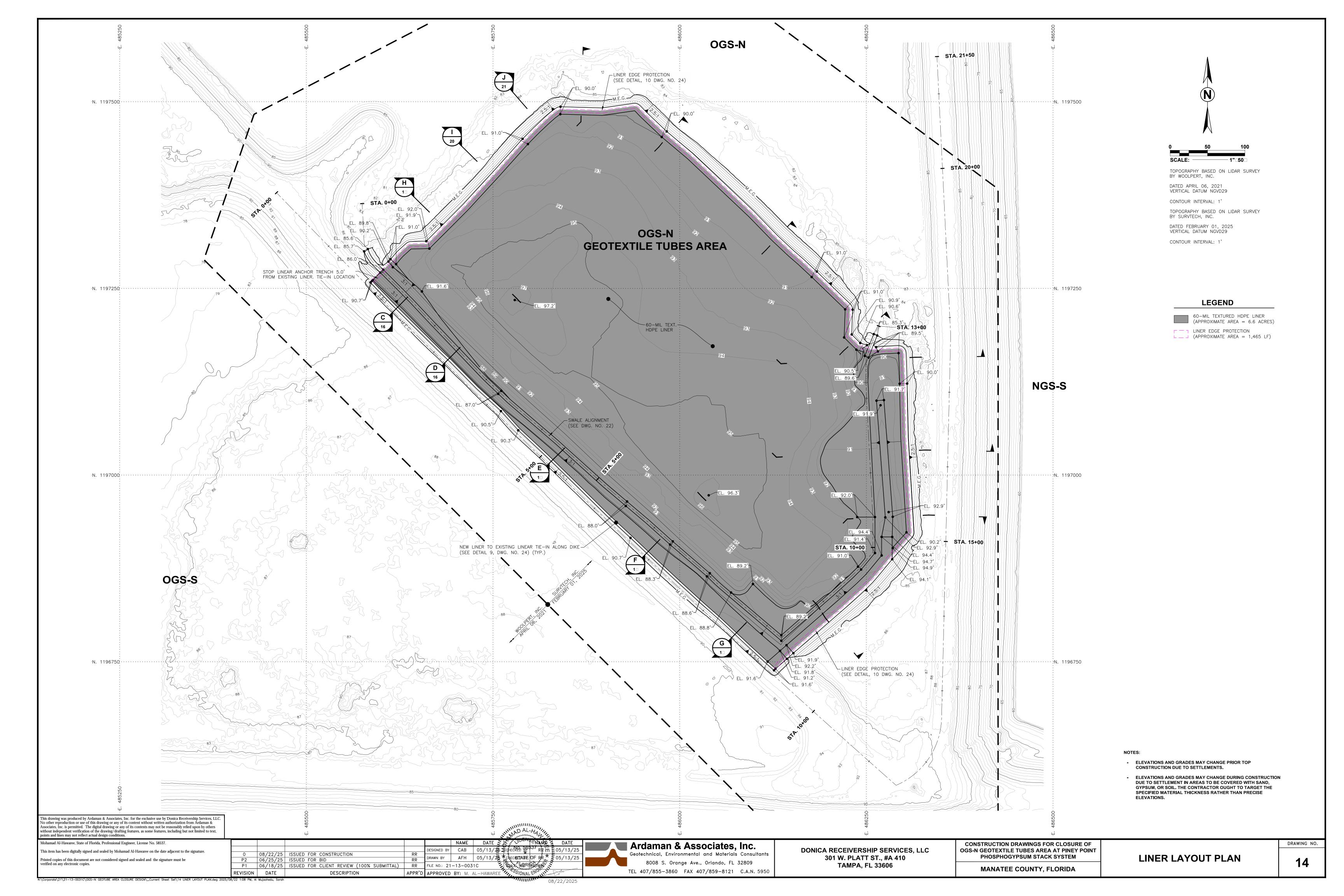


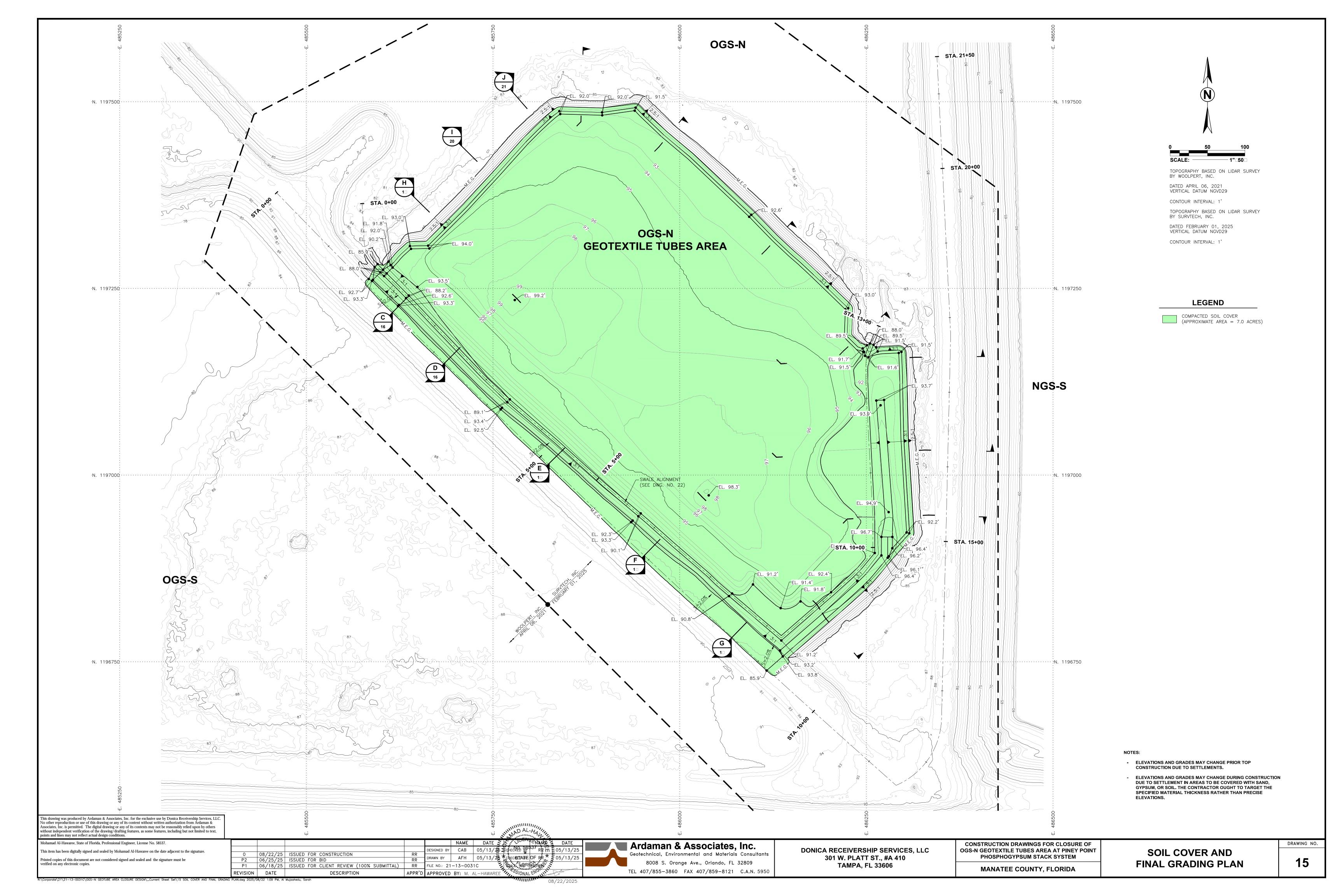


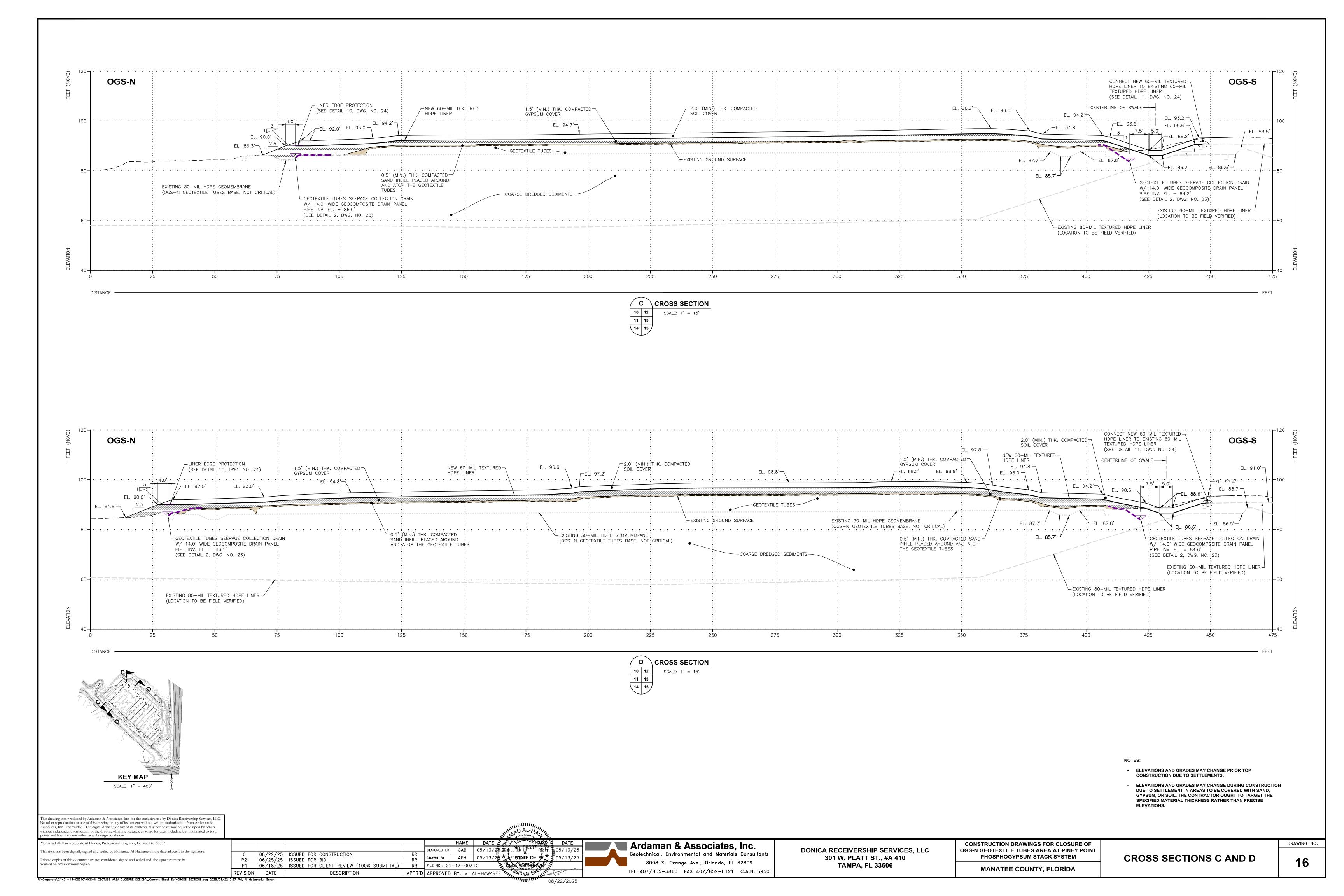


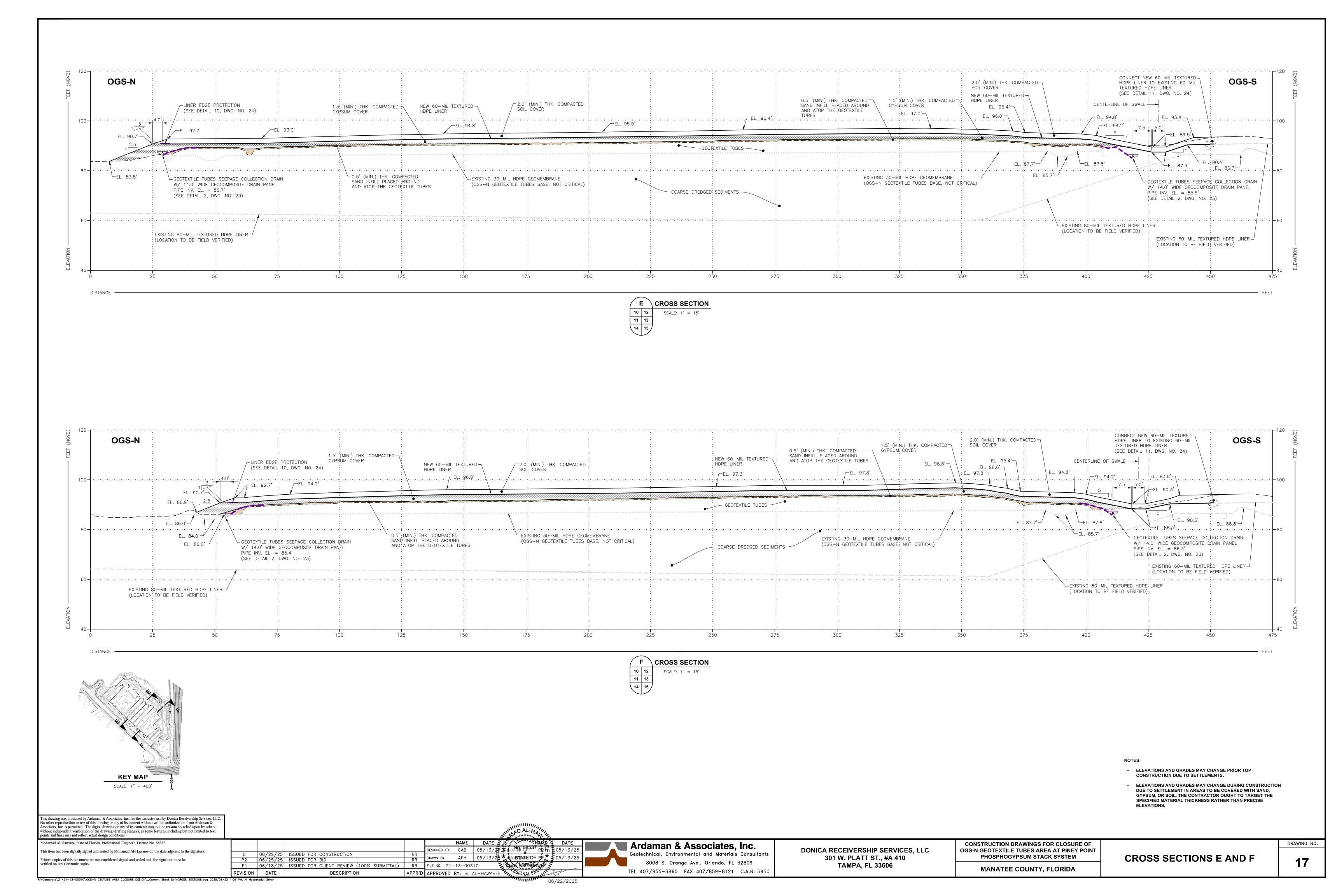


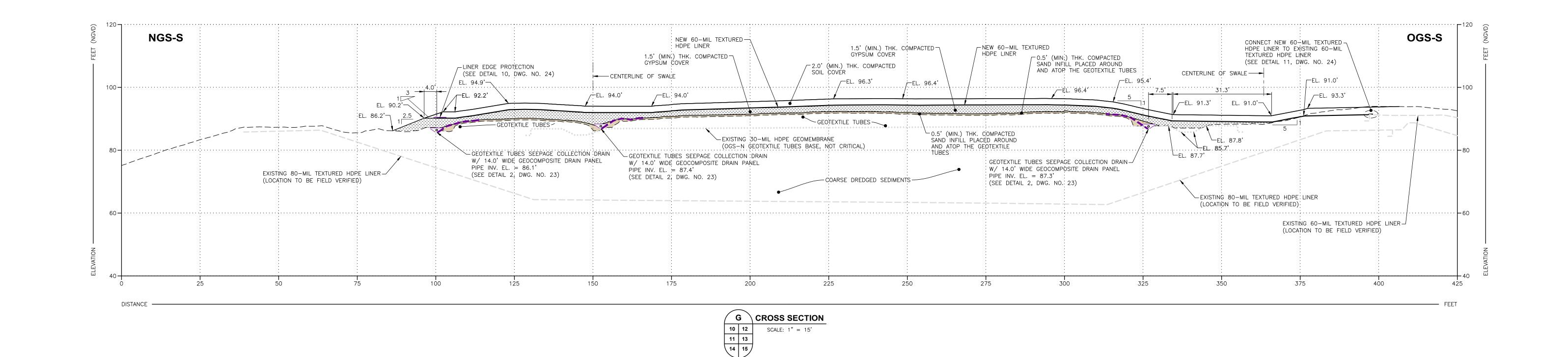


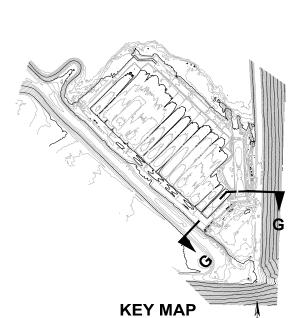












- ELEVATIONS AND GRADES MAY CHANGE PRIOR TOP CONSTRUCTION DUE TO SETTLEMENTS.
- ELEVATIONS AND GRADES MAY CHANGE DURING CONSTRUCTION DUE TO SETTLEMENT IN AREAS TO BE COVERED WITH SAND, GYPSUM, OR SOIL. THE CONTRACTOR OUGHT TO TARGET THE SPECIFIED MATERIAL THICKNESS RATHER THAN PRECISE **ELEVATIONS.**

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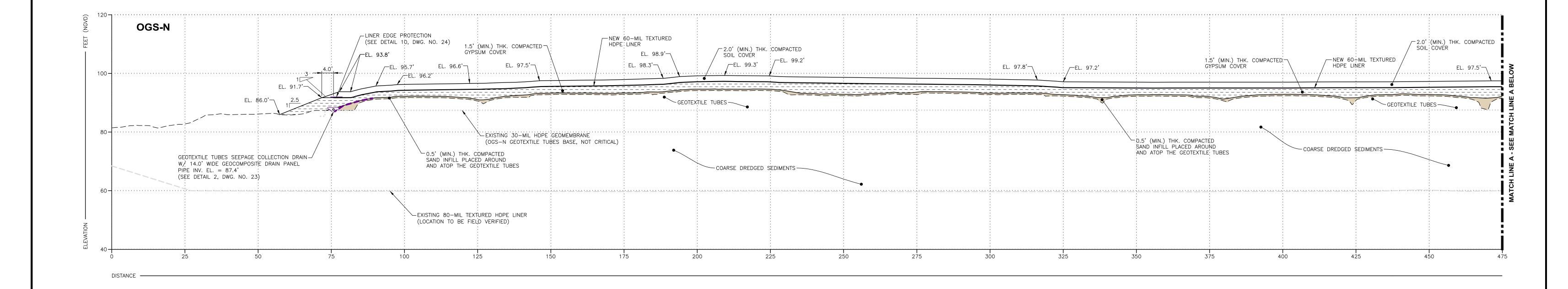
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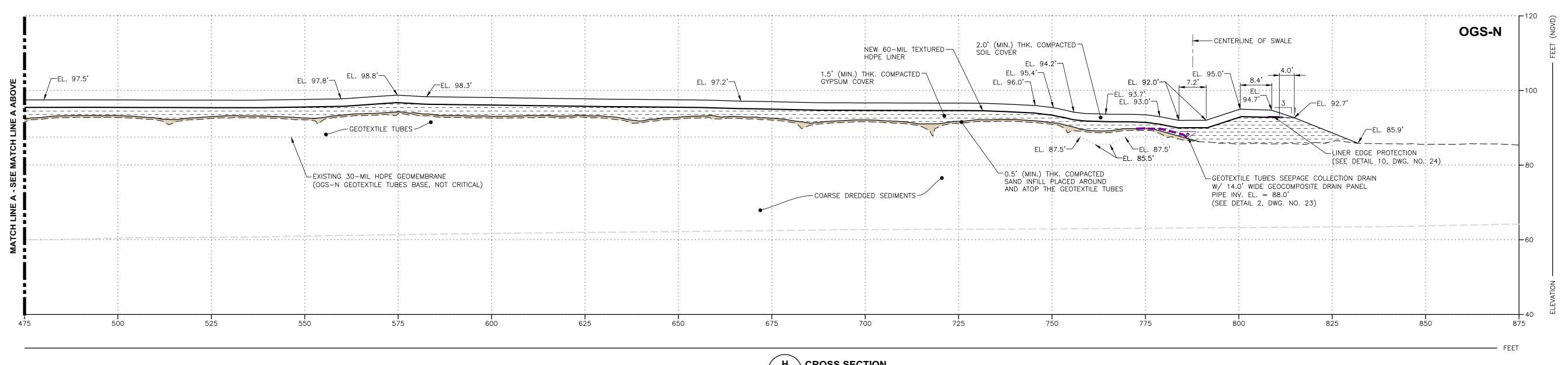
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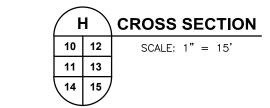
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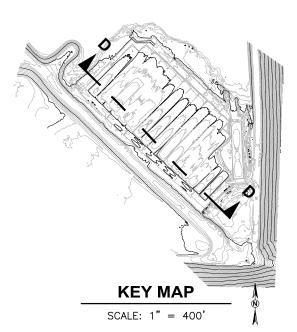
CONSTRUCTION DRAWINGS FOR CLOSURE OF OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT PHOSPHOGYPSUM STACK SYSTEM MANATEE COUNTY, FLORIDA

CROSS SECTION G









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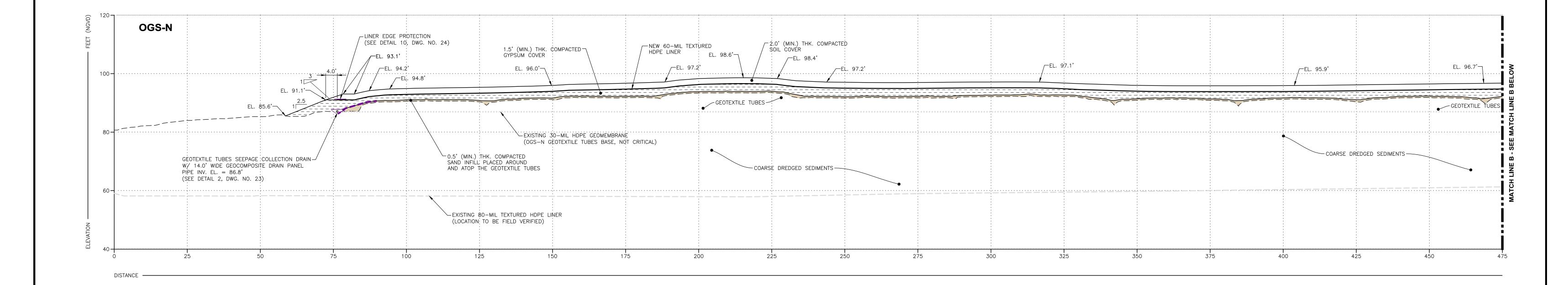
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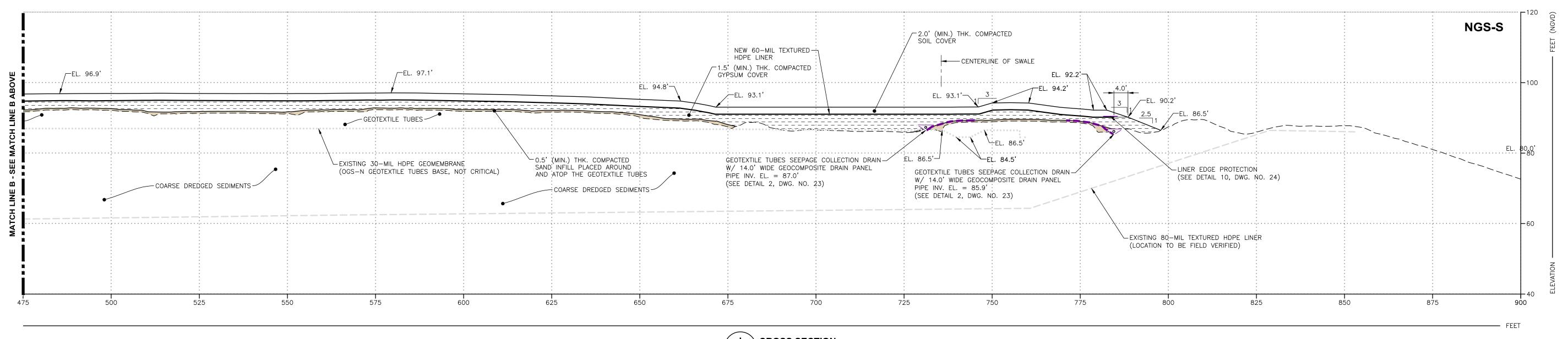
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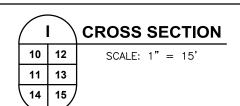
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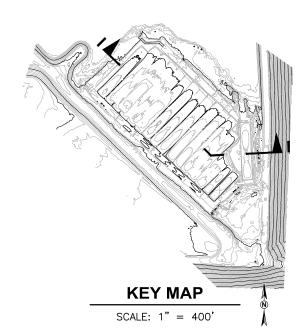
CONSTRUCTION DRAWINGS FOR CLOSURE OF OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT PHOSPHOGYPSUM STACK SYSTEM MANATEE COUNTY, FLORIDA

CROSS SECTION H









- ELEVATIONS AND GRADES MAY CHANGE PRIOR TOP CONSTRUCTION DUE TO SETTLEMENTS.
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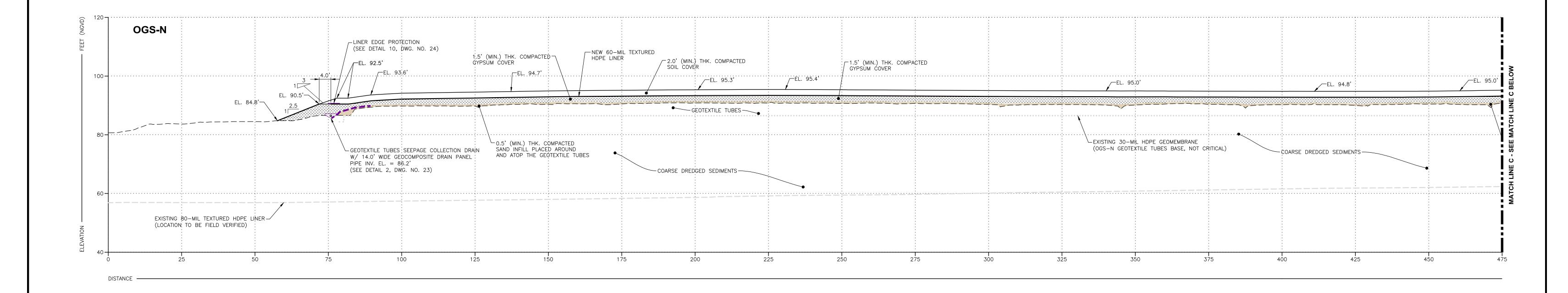
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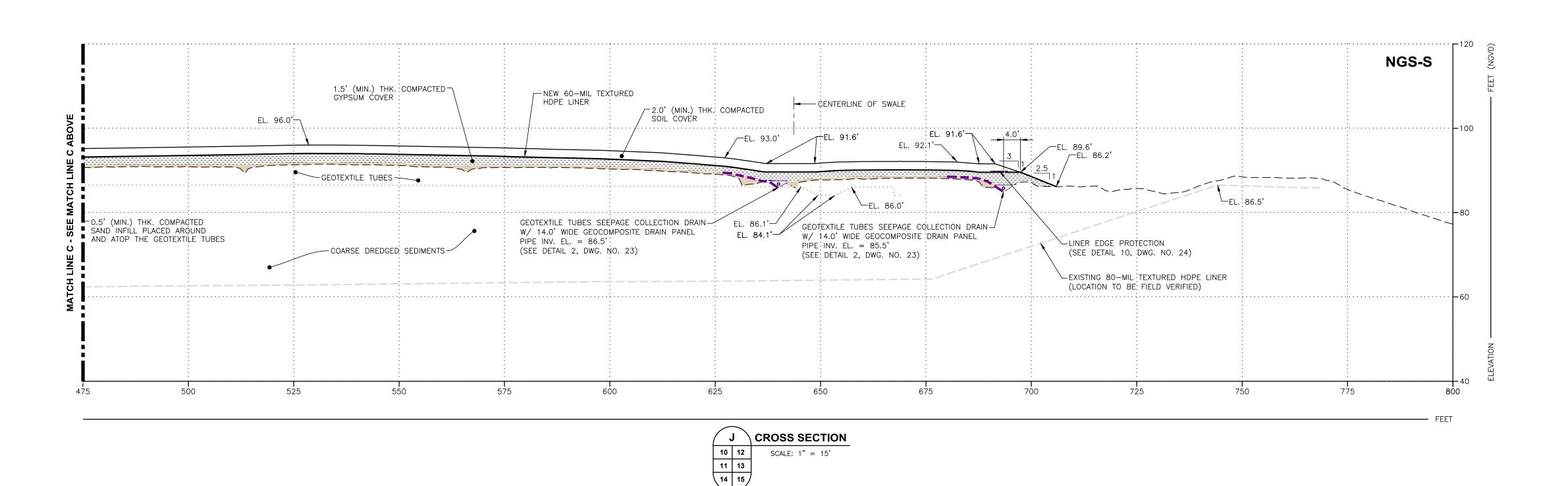
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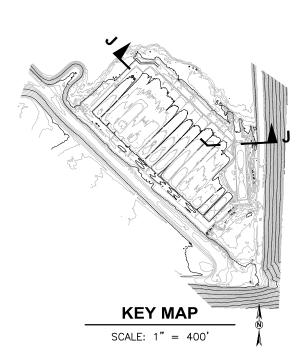
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CONSTRUCTION DRAWINGS FOR CLOSURE OF OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT PHOSPHOGYPSUM STACK SYSTEM MANATEE COUNTY, FLORIDA

CROSS SECTION I







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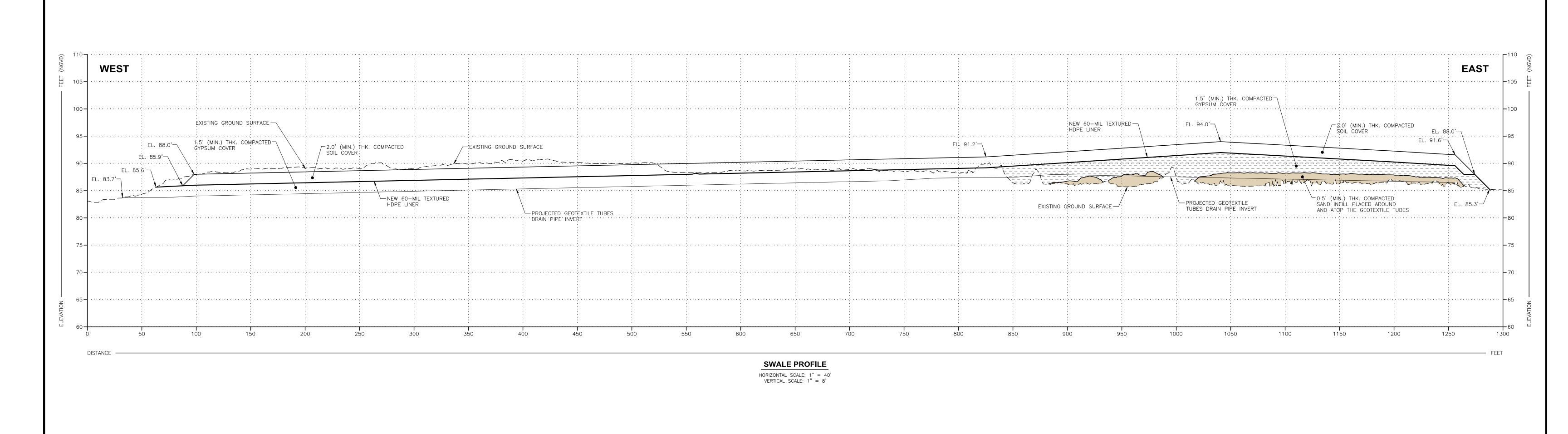
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Mohamad Al-Hawaree, State of Florida, Professional Engineer, License No. 58537.						NAME	DATE 🕏	K. Connect	AMD 1	DATE
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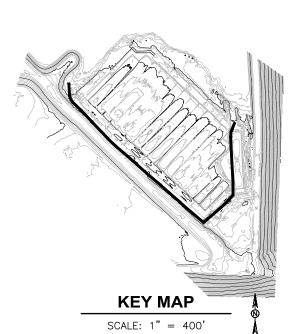


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CONSTRUCTION DRAWINGS FOR CLOSURE OF OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT PHOSPHOGYPSUM STACK SYSTEM MANATEE COUNTY, FLORIDA

CROSS SECTION J

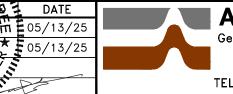




- ELEVATIONS AND GRADES MAY CHANGE PRIOR TOP CONSTRUCTION DUE TO SETTLEMENTS.
- ELEVATIONS AND GRADES MAY CHANGE DURING CONSTRUCTION DUE TO SETTLEMENT IN AREAS TO BE COVERED WITH SAND, GYPSUM, OR SOIL. THE CONTRACTOR OUGHT TO TARGET THE SPECIFIED MATERIAL THICKNESS RATHER THAN PRECISE **ELEVATIONS.**

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Mohamad Al-Hawaree, State of Florida, Professional Engineer, License No. 58537.						NAME	DATE 🕏	A:	.70-	
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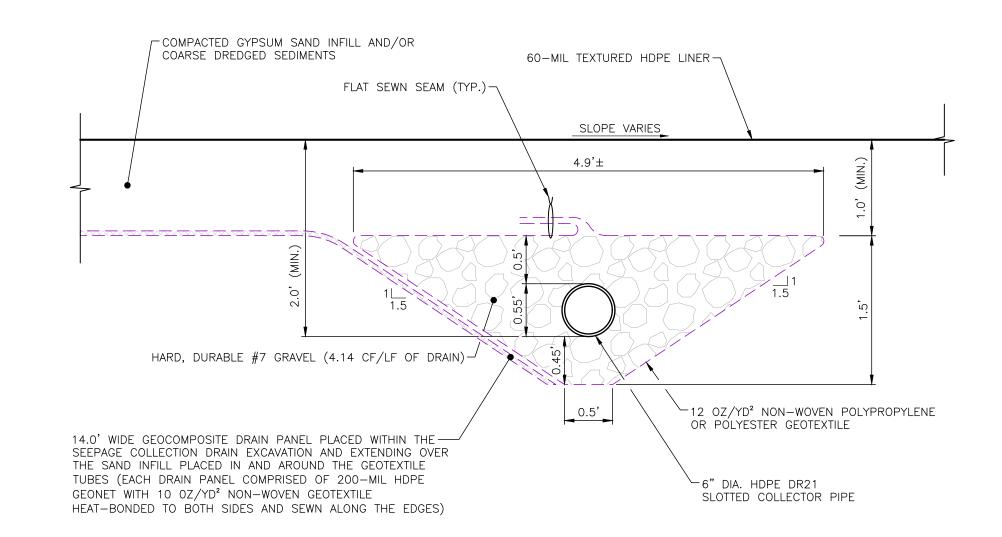


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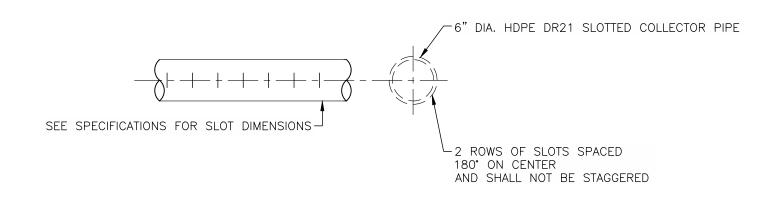
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CONSTRUCTION DRAWINGS FOR CLOSURE OF OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT PHOSPHOGYPSUM STACK SYSTEM MANATEE COUNTY, FLORIDA

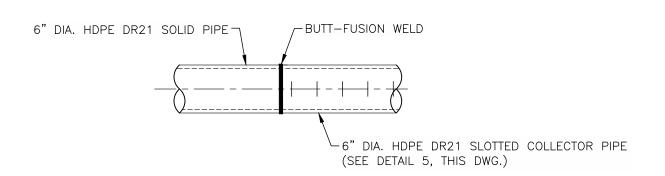
SWALE PROFILE



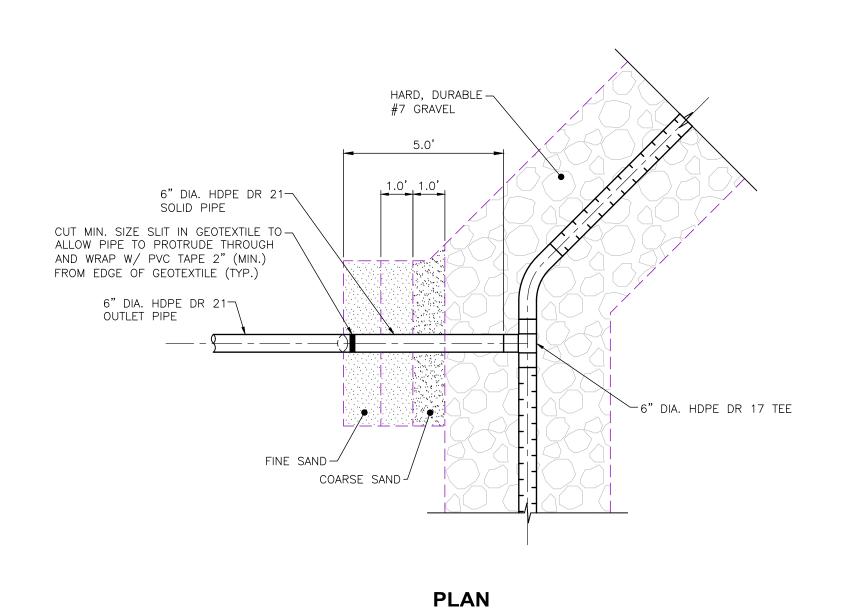


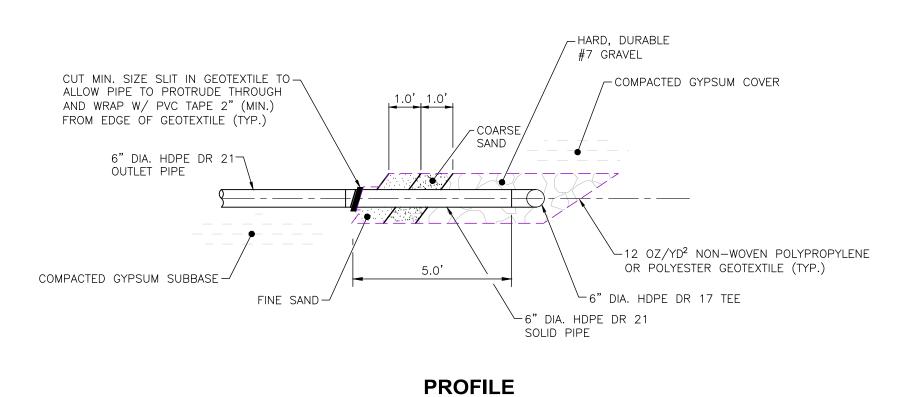




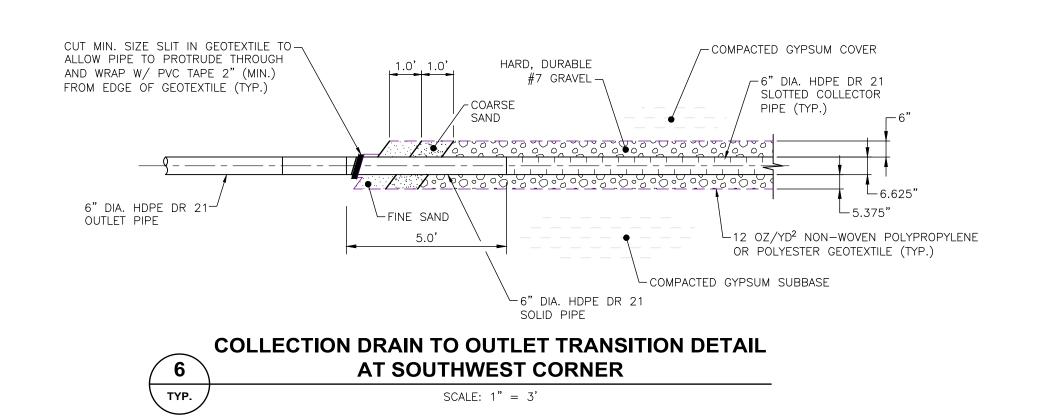


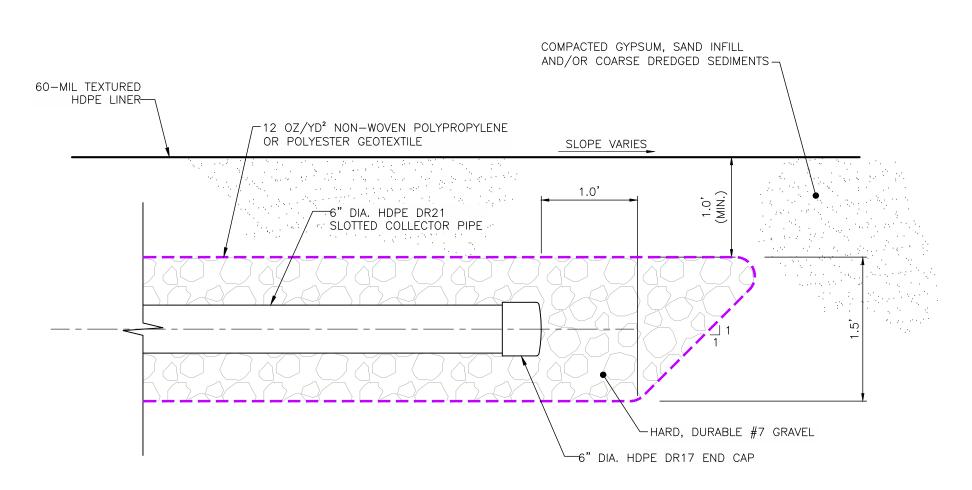










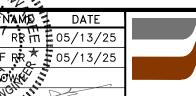




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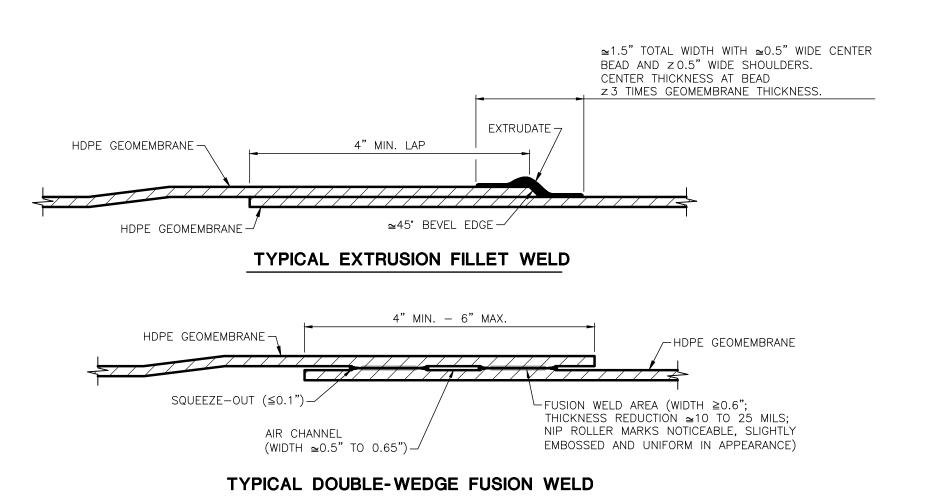


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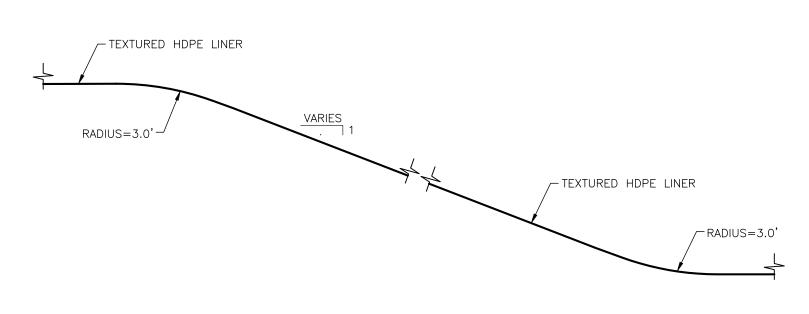
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CONSTRUCTION DRAWINGS FOR CLOSURE OF **OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT** PHOSPHOGYPSUM STACK SYSTEM

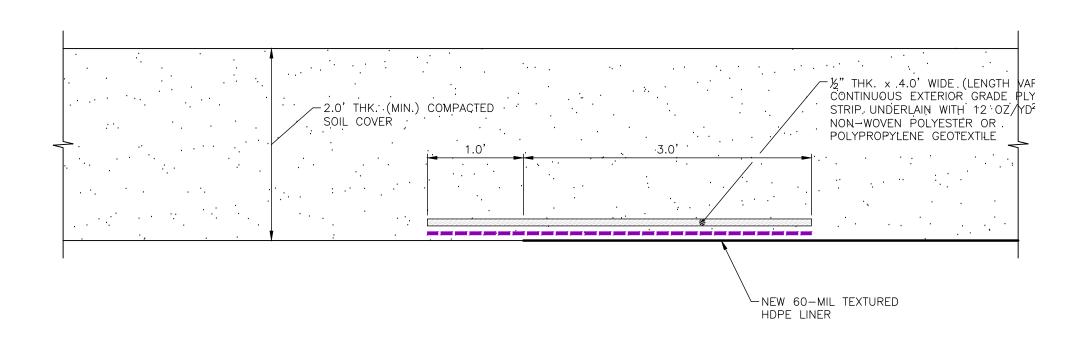
GEOTEXTILE TUBES SEEPAGE COLLECTION DRAIN DETAILS



FUSION AND EXTRUSION WELD DETAILS TYP. NOT TO SCALE



SEQUENCING FOR LINER TIE-IN TO EXISTING OGS-S LINER TYP. NOT TO SCALE



LINER EDGE PROTECTION DETAILS ALONG 10 OPEN EDGES OF GEOTEXTILE TUBES AREA ∖ TYP. ∠ SCALE: 1" = 1'

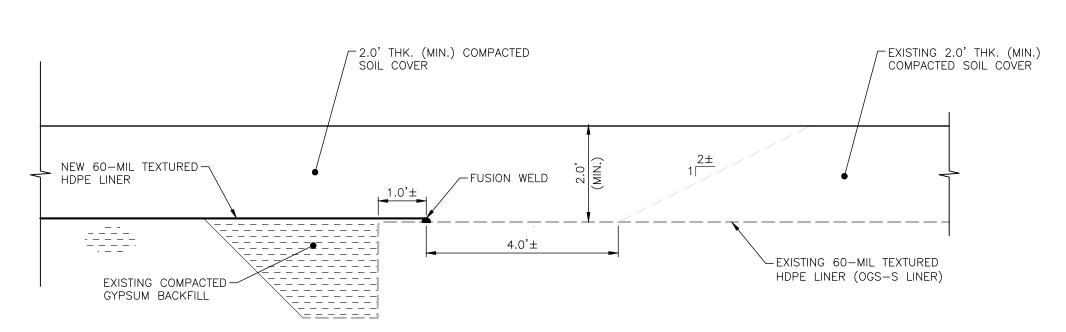
- REMOVE SOIL COVER FROM EXISTING OGS-S LINER EDGE TO EXPOSE ANCHOR TRENCH AND 3 TO 4 FEET OF LINER RUNOUT.

- 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. `

EXISTING 2.0' THK. (MIN.) COMPACTED SOIL COVER FUSION WELD NEW 60-MIL HDPE LINER
TO EXISTING 60-MIL HDPE LINER NEW 60-MIL TEXTURED -HDPE LINER -----►EXISTING 60-MIL TEXTURED -CUT HDPE LINER APPROX. 1.0' FROM ANCHOR TRENCH HDPE LINER (OGS-S LINER) EXISTING COMPACTED GYPSUM BACKFILL

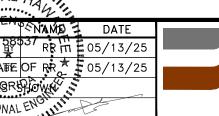


> SEQUENCING FOR LINER TIE-IN TO EXISTING OGS-S LINER TYP. SCALE: 1" = 1'

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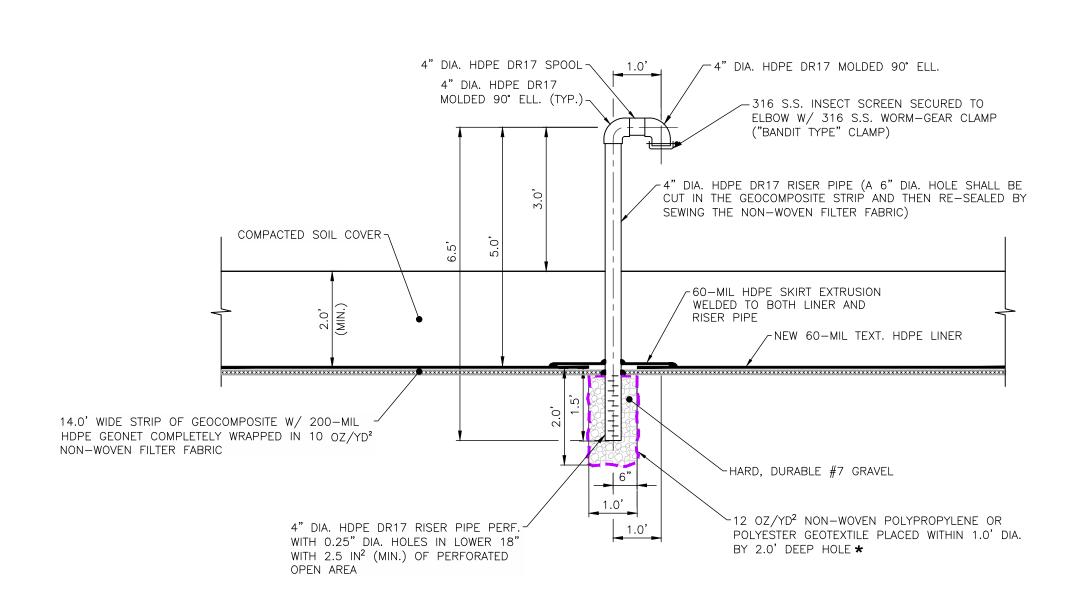
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CONSTRUCTION DRAWINGS FOR CLOSURE OF OGS-N GEOTEXTILE TUBES AREA AT PINEY POINT PHOSPHOGYPSUM STACK SYSTEM MANATEE COUNTY, FLORIDA

TYPICAL LINER DETAILS

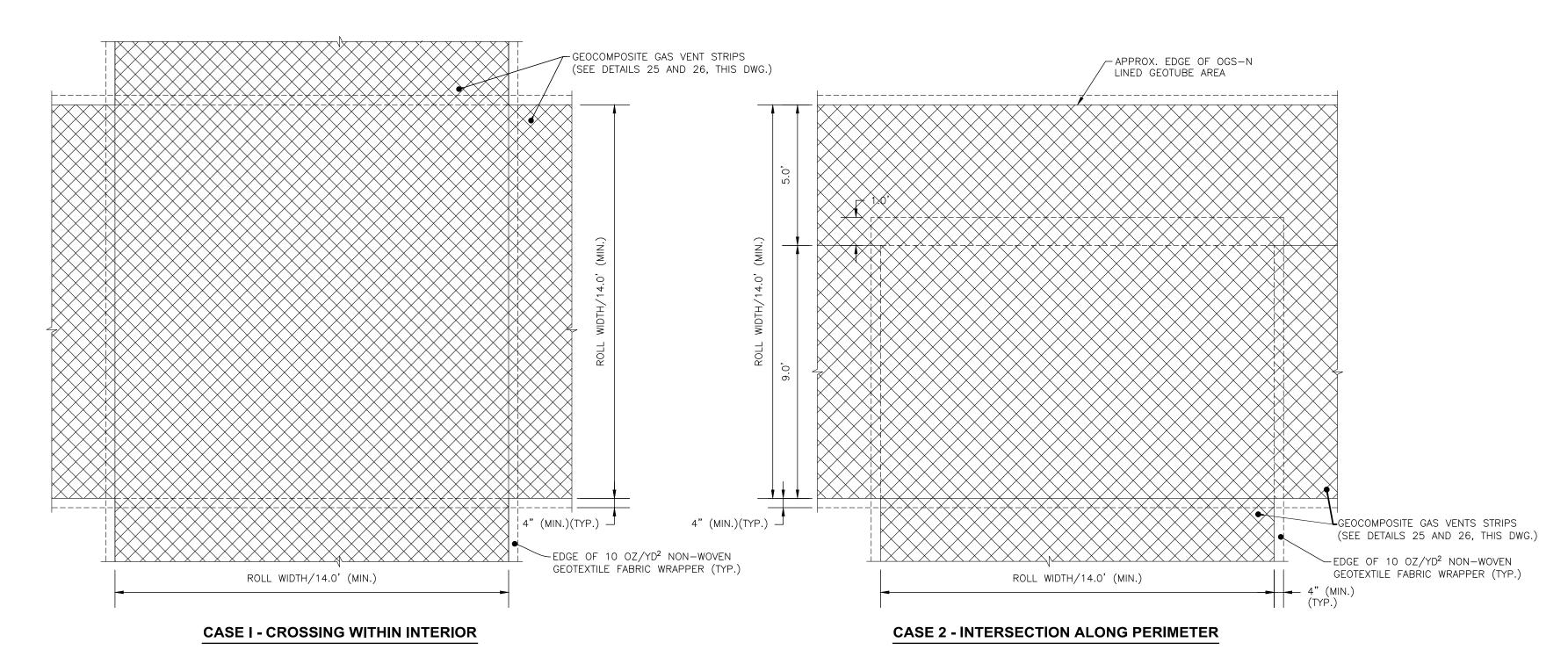


SCALE: 1" = 2'

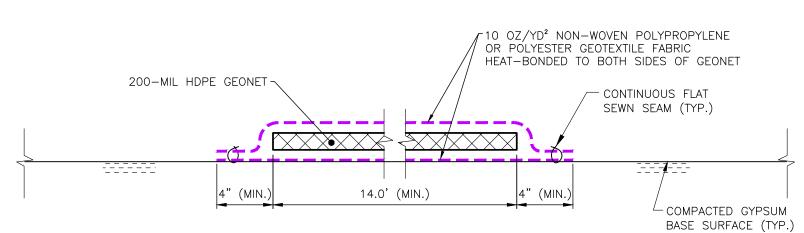
∖ TYP. ∠

12 GAS VENT OUTLET ASSEMBLY DETAILS

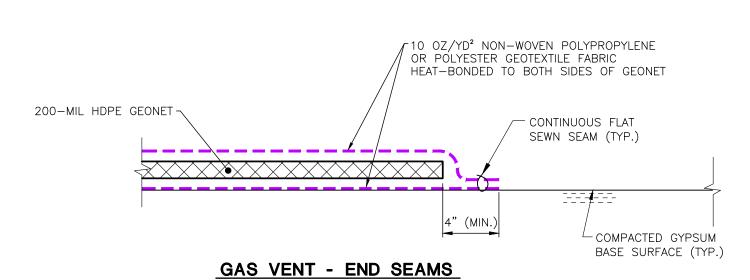
* EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE THE UNDERLYING GEOTUBES DURING EXCAVATION OPERATIONS.



13 \ PLAN VIEWS OF GAS VENT OVERLAP DETAILS SCALE: 1" = 3'



GAS VENT - SIDE SEAMS



GEOCOMPOSITE GAS VENT SEAM DETAILS

NOT TO SCALE

→ 6" LAP (TYP.) FLAT SEWN SEAM (TYP.)~ (GEOTEXTILE FABRIC) 200-MIL HDPE GEONET-1.5' LAP (MIN.) WITH 10 OZ/YD² SECURE THE TWO LAYERS OF HDPE NON-WOVEN GEOTEXTILE (HDPE GEONET) GEONET WITH TIES 1' ON CENTER ON BOTH SIDES (TYP.) (MAX.) ALL ALONG END GEOCOMPOSITE CONNECTION DETAIL (END-TO-END)

NOT TO SCALE

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