# /ED: 7/3/2024 11:47 AMBY:PUPSTILL PLOTTED:7/3/2024 11:55 AMBY:PAUL E. UPSTILI

**PROJECT** 

VICINITY

# D DOCUMENTS

## LEE/HENDRY COUNTY REGIONAL

## SOLID WASTE DISPOSAL FACILITY

## CELL 2A CLASS III LANDFILL

# HENDRY COUNTY, FLORIDA FOR



### LEE COUNTY SOLID WASTE DEPARTMENT

SITE ADDRESS: 5500 CHURCH ROAD, FELDA, FLORIDA 33930
MAILING ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FLORIDA 33905

# PREPARED BY: JonesEdmunds

ISSALED BY TOBIN S. MCKNICHT, P.E., ON THE JATE INDICATED HERE.

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No. 69187

STATE OF

STATE

PROJECT No: 12345-026-01

**VICINITY MAP** 

**HENDRY** 

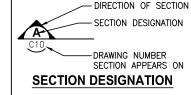
COUNTY

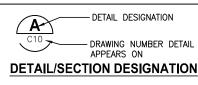
SOURCE: U.S. GEOLOGICAL SURVEY

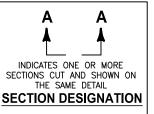
**JULY 2024** 

**LOCATION MAP** 

PROJECT LOCATION







EXISTING ASH MONOFILL AND EXISTING CELL 1 AREA SURVEYED BY T2 UTILITY ENGINEERS

- THIS SURVEY IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
- 4. IMPROVEMENTS ON OR ADJACENT TO THE SUBJECT PARCEL HAVE NOT BEEN LOCATED EXCEPT AS SHOWN
- 8. ALL HORIZONTAL SURVEY DATA IS REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) BASED ON GPS RTK (REAL TIME KINEMATIC) CORRECTIONS
- 10. COORDINATES, ELEVATIONS, BEARINGS AND DISTANCES SHOWN ARE MEASURED OR CALCULATED FROM FIELD
- 12. THIS SURVEY OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OR ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. OTHERWISE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY
- 13. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- 14. NO ENVIRONMENTAL AUDIT OR JURISDICTIONAL DELINEATION WAS MADE AS PART OF THIS SURVEY.
- 15. ANY ADJOINING DEED CITES ARE FOR "INFORMATIONAL PURPOSES ONLY"; NO SURVEY WAS MADE OF ADJOINING LANDS.
- 16. ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODEDTIC VERTICAL DATUM 1929, TIES TO BENCHMARK "CONTROL POINT 2" HAVING AN ELEVATION OF 34.91 FEET (NGVD 29) AS RECORDED IN CARDNO INC. SURVEY REPORT, DATED AUGUST 30, 2019. ELEVATIONS SHOWN HAVE EXPECTED VERTICAL ACCURACY OF ±0.1 FEET.
- 17. VERTICAL CONVERSION FROM NAVD 88 TO NGVD 29 = +1.26 FEET
- 18. THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1" = 100' OR SMALLER

GENEF	RAL
G1	COVER
G2	DRAWING INDEX LEGEND AND ABBREVIATIONS
G3	GENERAL NOTES
G4	COORDINATE TABLES
CIVIL	
C1	SITE PLAN AND KEY MAP
C2	EXISTING WELL AND BORING PLAN
C3	EXISTING CONDITIONS
C4	STORMWATER POND PLAN
C5	LEACHATE COLLECTION SYSTEM PLAN
C6	DRAINAGE SOIL COVER SYSTEMS PLAN
C7	LANDFILL SECTIONS
C8	LANDFILL PERIMETER BERM AND SWALE SECTIONS
C9	LINER SYSTEM DETAILS
C10	LINER SYSTEM DETAILS
C11	LINER SYSTEM DETAILS
C12	LEACHATE SUMP DETAIL
C13	LEACHATE SUMP SECTIONS AND DETAIL
C14	LANDFILL DETAILS
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C17	LANDFILL DETAILS
C18	LANDFILL DETAILS
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S1	STRUCTURAL NOTES AND LEGEND
S2	PUMP STATION STRUCTURAL PLAN
S3	STRUCTURAL SECTION AND DETAILS
S4	STRUCTURAL DETAILS
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М1	MECHANICAL NOTES AND LEGEND
M2	PUMP STATION MECHANICAL PLAN
м3	PUMP STATION MECHANICAL SECTIONS
M4	MECHANICAL DETAILS
M5	MECHANICAL DETAILS
M6	MECHANICAL DETAILS
M7	MECHANICAL DETAILS
ELECT	
E1	ELECTRICAL LEGEND AND NOTES
E2	ELECTRICAL SITE PLAN
E3	PUMP STATION ELECTRICAL PLAN
E4	PUMP STATION ELECTRICAL ONE-LINE DIAGRAM
E5	ELECTRICAL WIRING SCHEDULE
E6	ELECTRICAL SCHEDULES AND DETAILS
E7	ELECTRICAL DETAILS
	ON CONTROL
EC1	EROSION AND SEDIMENT CONTROL REQUIREMENT
EC2	EROSION CONTROL DETAILS
EC3	EROSION CONTROL DETAILS
	LINOSION CONTINUE DEIAILS

DRAWING INDEX

**DESCRIPTION** 

DWG

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					DRAWN	PUPSTILL
						T
LTR	DATE	REVISIONS	RY	APPRN	CHECKED	TMCKNIGHT

JonesEdmunds 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-582 LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY **CELL 2A CLASS III LANDFILL CONSTRUCTION** HENDRY COUNTY, FLORIDA

**DRAWING INDEX LEGEND AND ABBREVIATIONS** 

APPROVED BY	PROJECT NO:	DATE:
	12345-026-	01 JUL 2024
TOBIN S. MCKNIGHT	INDEX NO:	DWG NO:
TODIN 3. MCKINIGITI		G2
P.E. 69187		02
2	4	

#### **GENERAL NOTES**

- 1. SURVEY PROVIDED BY JOHNSON ENGINEERING, INC. AND T2 UTILITY ENGINEERS. SEE SURVEY NOTES ON G2.
- ANY NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 29) MONUMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE. THE CONTRACTOR SHALL NOTIFY:
- 3. FLORIDA STATE GEODETIC ADVISOR

DENIS RIORDAN 1109 SOUTH MARION AVE MS 2022 LAKE CITY, FL 32025-5874 (386) 243-0769 CELL: (240) 678-2107 EMAIL: Denis.riordan@noaa.go

- 4. THE CONTRACTOR SHALL PROVIDE A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO ESTABLISH THE CONSTRUCTION SITE LAYOUT, PERFORM TOPOGRAPHIC SURVEYS, AND PERFORM ALL OTHER REQUIRED SURVEYING SERVICES.
- CONSTRUCTION MONUMENTS FOR VERTICAL AND HORIZONTAL CONTROL
  HAVE BEEN PROVIDED AT THE PROJECT SITE. THE CONTRACTOR SHALL
  VERIFY THE ACCURACY OF THESE MONUMENTS TO THEIR OWN
  SATISFACTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROPER
  VERTICAL AND HORIZONTAL ALIGNMENT OF CONSTRUCTED FACILITIES AND
  FINISHED GRADE.
- 6. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) AFFECTING THEIR OWN WORK.
- 7. THE CONTRACTOR SHALL VERIFY ALL CLEARANCES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
- 9. FIELD CONDITIONS MAY NECESSITATE SLIGHT ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED CONSTRUCTION TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED FACILITIES TO THE ORDERED DEVIATION WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- 10. THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT SUNSHINF STATE ONE CALL AT 1-800-432-4770.
- 11. THE CONTRACTOR SHALL BE AWARE THAT THERE MAY BE SOME UTILITY CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- 12. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS SHALL BE BASED.

- 13. -----, C/L, & ARE EXAMPLES OF DRAWING ELEMENTS THAT HAVE BEEN SCREENED/SHADOWED TO INDICATE EXISTING CONDITIONS THAT WERE PREVIOUSLY PERMITTED AND/OR CONSTRUCTED.
- 14. THE CONTRACTOR SHALL BE AWARE THAT THE CONSTRUCTION SITE IS ADJACENT AND CONNECTS TO ACTIVE LANDFILL CELLS, AND THAT LANDFILL GAS MAY MIGRATE ONTO THE CONSTRUCTION SITE. THE CONTRACTOR SHALL TAKE PROVEN MEANS TO PROTECT PERSONNEL AND FACILITIES FROM RELATED HAZARDS, INCLUDING EXPLOSION, ASPHYXIATION, AND POISONING DUE TO THE PRESENCE OF LANDFILL GASES.
- 15. THE CONTRACTOR SHALL NOT INTERFERE WITH FACILITY OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY THE OWNER A MINIMUM OF 48 HOURS IN ADVANCE OF ALL PLANNED UTILITY OUTAGES AND ROAD CROSSINGS.
- 16. THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PROTECT MONITOR WELLS FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE MONITOR WELLS DAMAGED DURING CONSTRUCTION WITH LIKE MATERIALS AND CONSTRUCTION METHODS AS APPROVED BY THE ENGINEER AND FDEP WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD DAMAGE OCCUR TO ANY MONITOR WELLS.
- 17. THE CONTRACTOR SHALL PREVENT DAMAGE TO THE EXISTING GEOMEMBRANE. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD DAMAGE OCCUR AND PERFORM REPAIRS AS DIRECTED BY THE ENGINEER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- 18. THE CONTRACTOR SHALL PREVENT DISTURBANCE TO AND UNDERMINING OF ADJACENT STRUCTURES, SLABS, PIPING, AND OTHER UTILITIES OR FACILITIES DURING CONSTRUCTION.
- 19. THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, GRASSING, SIGNS, AND OTHER IMPROVEMENTS WITH SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER TO EQUAL OR BETTER CONDITION WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- 20. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS, CONDITIONS, AND REQUIREMENTS OF ALL APPLICABLE PERMITS, INCLUDING FDEP AND WATER MANAGEMENT DISTRICT PERMITS FOR THE SITE. ALL PERMITS OBTAINED BY THE OWNER WILL BE AVAILABLE TO THE CONTRACTOR.
- 21. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH EXISTING COUNTY DESIGN AND CONSTRUCTION STANDARDS UNLESS THOSE STANDARDS CONFLICT WITH THESE CONTRACT DOCUMENTS IN WHICH CASE THESE CONTRACT DOCUMENTS SHALL GOVERN. SUCH CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- 22. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND TO ABIDE BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90-96) EFFECTIVE OCTOBER 1, 1990.
- 23. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ENVIRONMENTAL PROTECTION DURING THE LIFE OF THE CONTRACT, INCLUDING THE WARRANTY PERIOD. THE CONTRACTORS' OPERATIONS SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING THOSE PERTAINING TO WATER, AIR, SOLID WASTE, HAZARDOUS WASTE MATERIALS, OILY SUBSTANCES, AND NOISE POLLUTION. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY TO COMPLY WITH THESE REGULATIONS FOR BOTH TEMPORARY AND PERMANENT CONSTRUCTION.
- 24. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PROVIDE STORMWATER AND EROSION CONTROL PLANS TO PREVENT WATER FROM PONDING AND CONTROL EROSION AND RUNOFF. NO PONDING OF WATER SHALL BE ALLOWED. THE CONTRACTOR SHALL USE APPROVED CONSTRUCTION TECHNIQUES TO PREVENT EROSION AND SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING PROVIDING EQUIPMENT, LABOR, FILL, ETC NECESSARY TO REMEDIATE AND/OR RESTORE ALL AREAS IMPACTED BY EROSION.

- 25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING STORMWATER RUNOFF, SOLID WASTE, LANDFILL GAS, AND LEACHATE FROM ENTERING OR IMPACTING THE AREAS OF THE WORK. THE CONTRACTOR SHALL INSTALL AND MAINTAIN MANAGEMENT AND CONTROL DEVICES INCLUDING DIVERSION/COLLECTION BERMS, DITCHES, PUMPING STATIONS, WALLS, LINERS, ETC. TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- 26. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION AND SHALL USE APPROVED CONSTRUCTION TECHNIQUES TO MANAGE STORMWATER SUCH THAT THE IMPACT TO CONSTRUCTION IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGE DUE TO
- 27. FDOT INDICES SHALL REFER TO THE MOST RECENT "FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS"
- 28. THE CONTRACTOR SHALL PROVIDE CONTROL AND MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT INDEX 600 THROUGH 665, OSHA, AND OTHER APPLICABLE REGULATORY REQUIREMENTS AND AS NECESSARY TO PROVIDE FOR SITE SAFETY DURING CONSTRUCTION. CONTRACTOR SHALL PAVE EXISTING ROADWAYS ONE LANE AT A TIME TO MAINTAIN ACCESS THROUGHOUT THE PROJECT.
- LEGAL DESCRIPTIONS FOR WETLAND LINES ARE AVAILABLE.
   CONTRACTORS SHALL LOCATE/IDENTIFY IN THE FIELD FOR VERIFICATION OF REQUIRED SETBACKS.
- 30. RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE SPECIFIED.
- 31. ALL MES SHALL BE IN ACCORDANCE WITH FDOT 430-021.
- 32. CONTRACTOR SHALL SOD ALL AREAS DISTURBED DURING CONSTRUCTION.

#### **HEALTH AND SAFETY NOTES**

- 1. THIS PROJECT INVOLVES WORK IN AND AROUND AN ACTIVE CLASS III LANDFILL. THE CONTRACTOR SHALL PROTECT ALL PERSONNEL FROM ALL HAZARDS ASSOCIATED WITH WORKING AT A LANDFILL INCLUDING CONTACT WITH LEACHATE AND OTHER CONTAMINATED MEDIA, LANDFILL GASES, MICROBIOLOGICAL AIRBORNE CONTAMINANTS, DANGEROUS CHEMICALS, SHARP OBJECTS, AND OTHER HAZARDS (CHEMICAL, PHYSICAL, AND RADIOLOGICAL, ETC.). AT A MINIMUM, THE CONTRACTOR SHALL COMPLY WITH THE BEST MANAGEMENT PRACTICES (MARCH 1992) AVAILABLE FROM THE SOLID WASTE ASSOCIATION OF NORTH AMERICA (SWANA). THE CONTRACTOR SHALL TAKE PRECAUTIONS NECESSARY TO ENSURE WORKER HEALTH AND SAFETY IN COMPLIANCE WITH OSHA CHAPTERS 1910 AND 1926 (SPECIFICALLY WITH 1910.120), AND OTHER APPLICABLE REGULATIONS. A HEALTH AND SAFETY PLAN SHALL BE PREPARED AND APPROVED BY THE CONTRACTOR'S DESIGNATED HEALTH AND SAFETY OFFICER BEFORE ANY WORK ON-SITE.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT PERSONNEL FROM ASPHYXIATION, POISONING, EXPLOSION, AND/OR OTHER HAZARDS DUE TO THE PRESENCE OF LANDFILL GASES, LEACHATE, WASTE, ETC.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND ABIDING BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90–96) EFFECTIVE OCTOBER 1, 1990.
- 4. A SITE-SPECIFIC HEALTH AND SAFETY PLAN SHALL BE PREPARED BY THE CONTRACTOR BEFORE ANY WORK ON-SITE.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A WRITTEN STATEMENT BEFORE BEGINNING WORK THAT HE/SHE WILL COMPLY WITH APPLICABLE TRENCH SAFETY STANDARDS.

#### **DEWATERING NOTES**

- THE CONTRACTOR SHALL OPERATE THE DEWATERING SYSTEM IN ACCORDANCE WITH THE PERMIT, PLANS, AND SPECIFICATION UNTIL ALL PROTECTIVE COVER SOIL IS INSTALLED AND IS VERIFIED BY RECORD SURVEY.
- 2. DEWATERING SHALL BE PERFORMED BY THE CONTRACTOR TO INSTALL AND CONSTRUCT THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. DEWATERING DISCHARGE SHALL BE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND REQUIREMENTS OF AGENCIES WITH JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A DEWATERING PLAN THAT IS IN ACCORDANCE WITH THE FACILITY'S MASTER DEWATERING PERMIT WITHOUT INCREASE IN CONTRACT PRICE OR TIME.
- 3. CONTRACTOR SHALL DISCHARGE DEWATERING WATER IN A MANNER THAT PREVENTS EROSION AND THE TRANSPORTATION OF SUSPENDED SOLIDS.
- 4. CONTRACTOR SHALL MONITOR GROUNDWATER LEVELS WITHIN THE VICINITY OF BOTTOM LINER DEWATERING ACTIVITIES FOR A MINIMUM OF 1 MONTH BEFORE DEWATERING COMMENCES AND SHALL CONTINUE TO MONITOR THROUGHOUT THE DURATION OF DEWATERING.

ID DOCUME

Jones Edmunds

13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821

LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

**GENERAL NOTES** 

В

PLOTTED: 7/3/2024 11:56 AM PAUL E. UPSTILL

COORDINATE TABLE POINT NORTHING EASTING DESCRIPTION 1 815768.97 485403.58 LINER 2 815768.97 485929.07 LINER 3 814984.47 485963.04 LINER 4 814984.47 485735.19 LINER 5 814940.39 485704.33 LINER 6 814984.47 485669.87 LINER 7 814984.47 485437.55 LINER 100 815752.31 485716.85 SUMP 101 815655.90 485716.69 SUMP 102 815656.32 485705.02 SUMP 103 815719.29 485683.82 SUMP 104 815688.77 485683.82 SUMP 105 815688.77 485672.05 SUMP 106 815719.29 485669.82 SUMP 107 815688.77 485669.82 108 815656.31 485641.82 SUMP 109 815656.15 485637.20 SUMP 110 815751.75 485637.36 SUMP 300 815873.65 485719.05 EOP 301 815853.65 485699.05 EOP 302 815778.97 485699.05 EOP 303 815873.65 485620.61 304 815853.65 485640.61 EOP 305 815778.97 485640.61 EOP 306 815804.09 485686.82 CONC

COORDINATE TABLE							
POINT	NORTHING	EASTING	DESCRIPTION				
307	815766.97	485686.82	CONC				
308	815766.97	485668.07	CONC				
309	815804.09	485668.07	CONC				
401	815838.32	485719.04	MES				
402	815838.32	485620.56	MES				
403	815860.65	485721.77	LFM				
404	815860.65	485160.16	LFM				
500	815897.65	486343.79	EOP				
501	815873.65	486343.79	EOP				
502	815853.65	485928.47	EOP				
504	815768.97	485868.47	EOP				
505	815823.65	485868.47	EOP				
506	815897.65	485978.47	EOP				
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509	815873.65	485127.85	EOP				

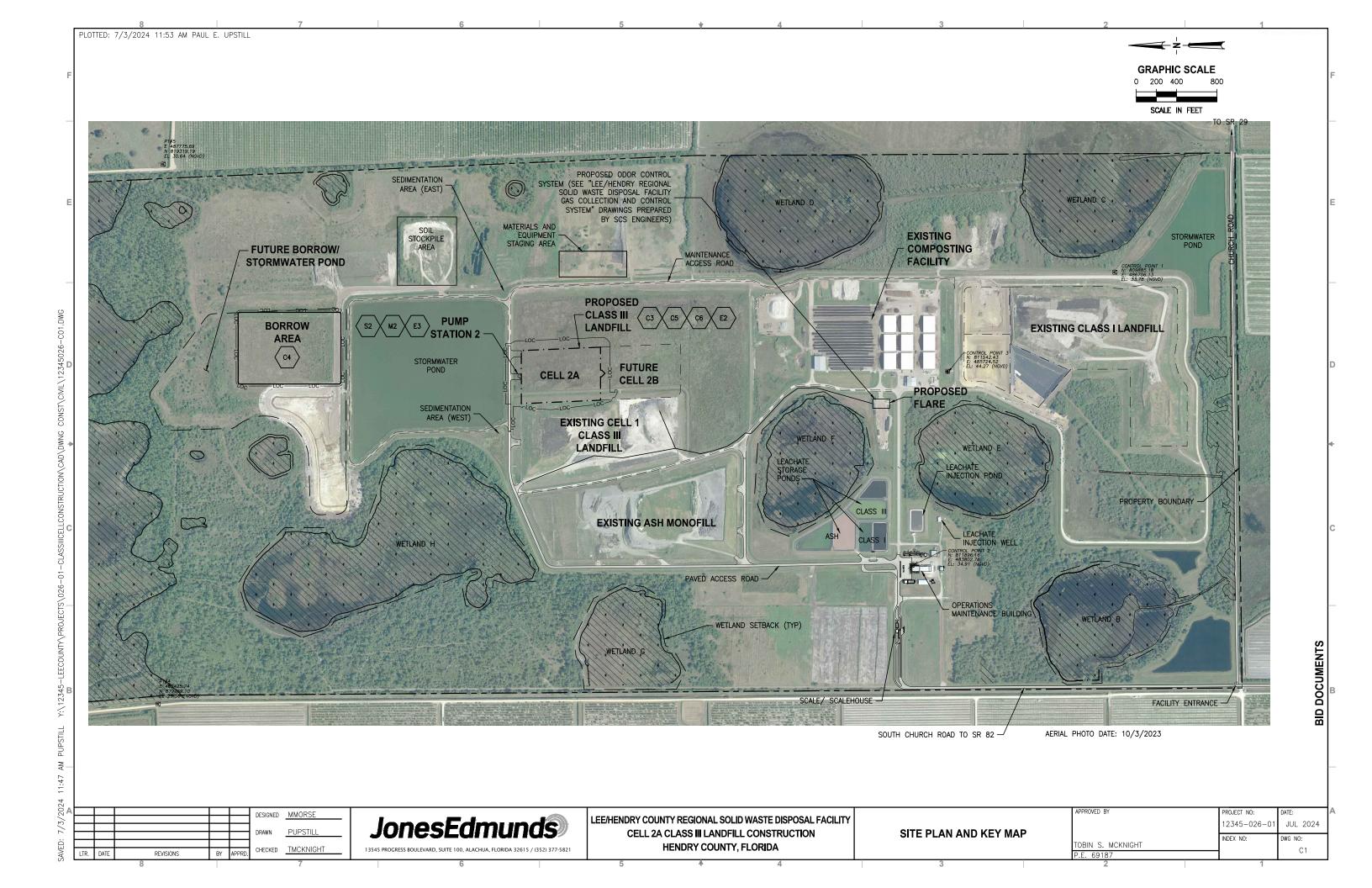
DESIGNED MMORSE DRAWN CHECKED TMCKNIGHT REVISIONS

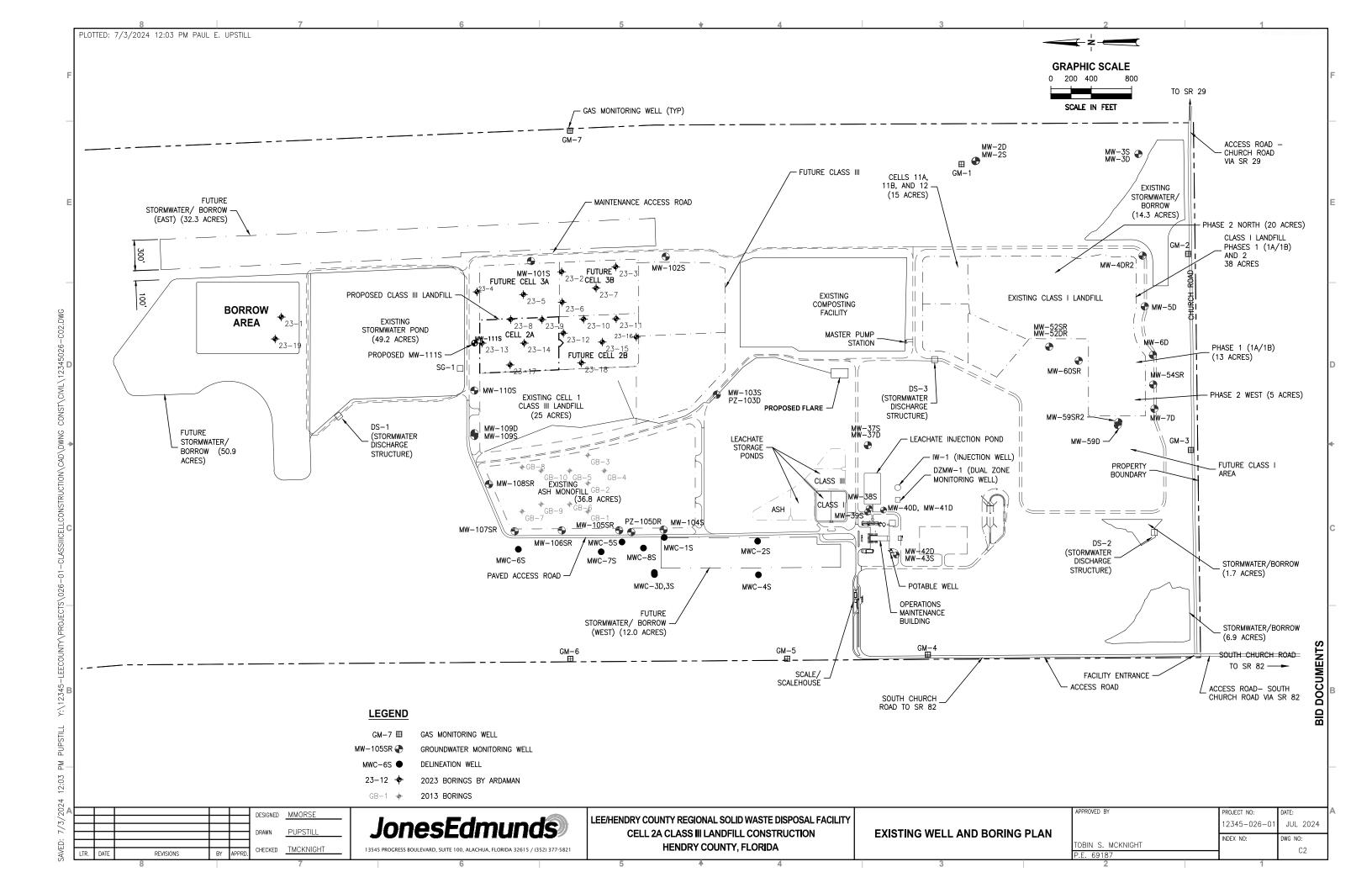
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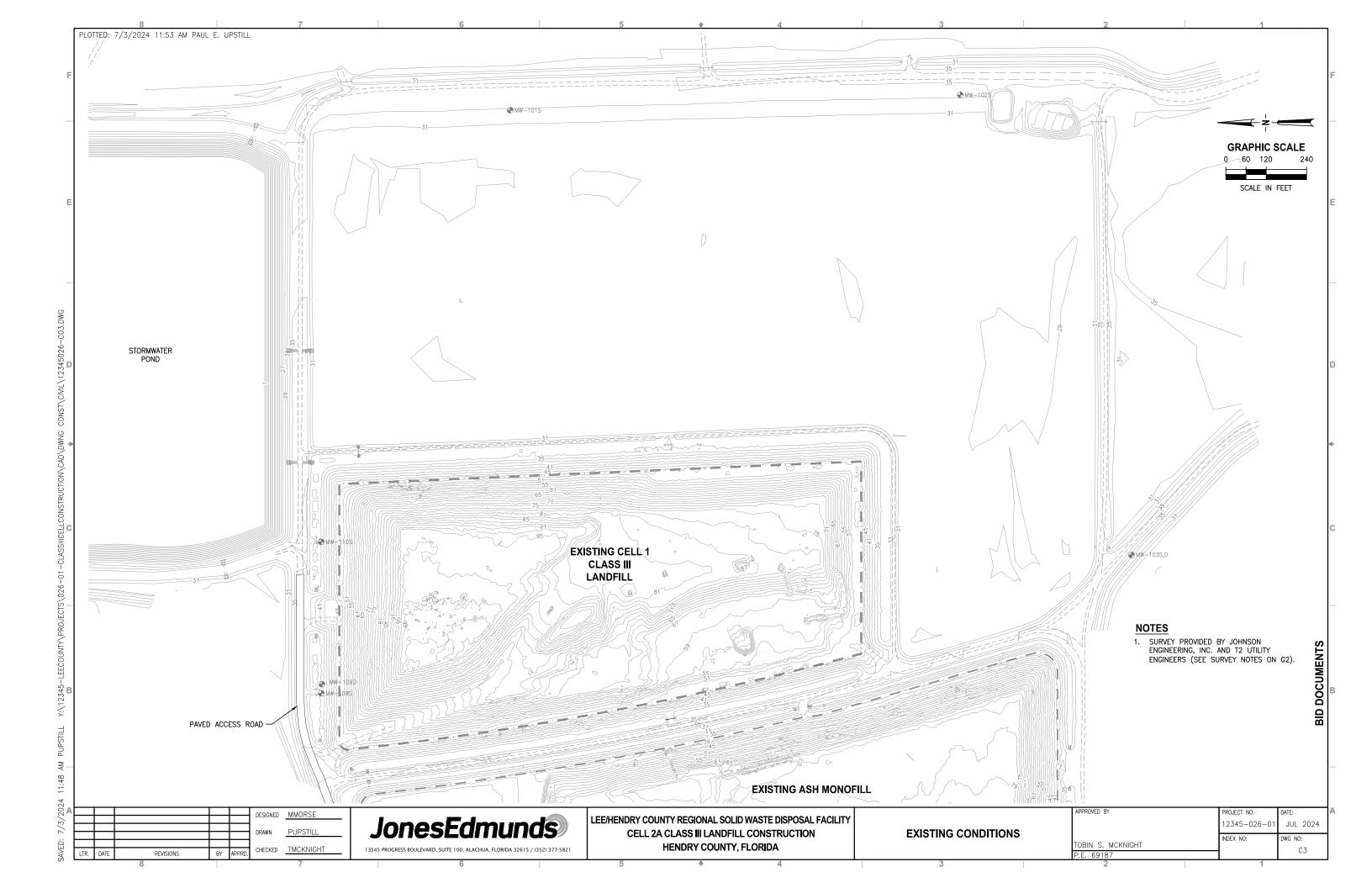
LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY **CELL 2A CLASS III LANDFILL CONSTRUCTION** HENDRY COUNTY, FLORIDA

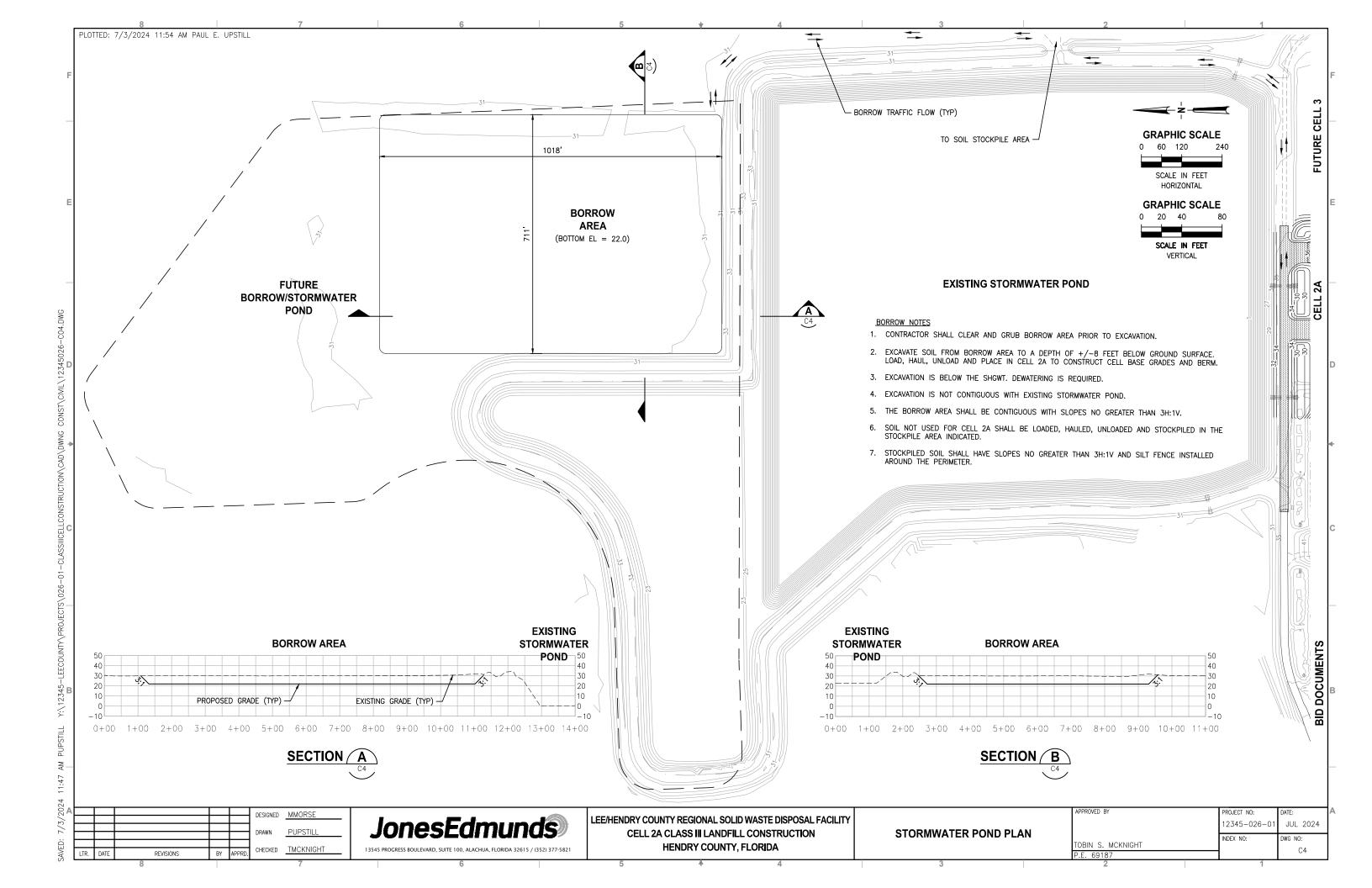
**COORDINATE TABLES** 

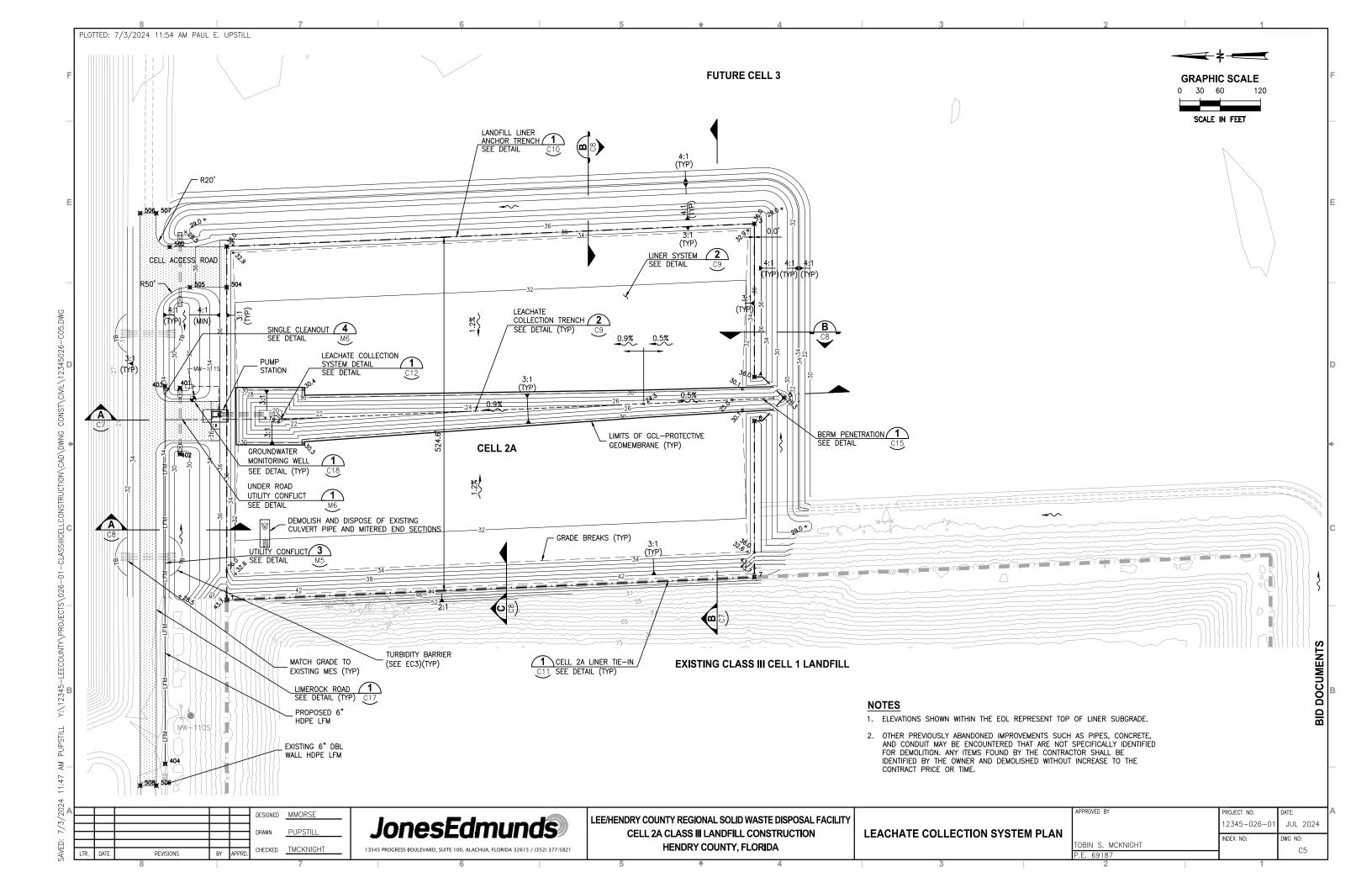
PROJECT NO: 12345-026-01 JUL 2024 INDEX NO: DWG NO: TOBIN S. MCKNIGHT G4

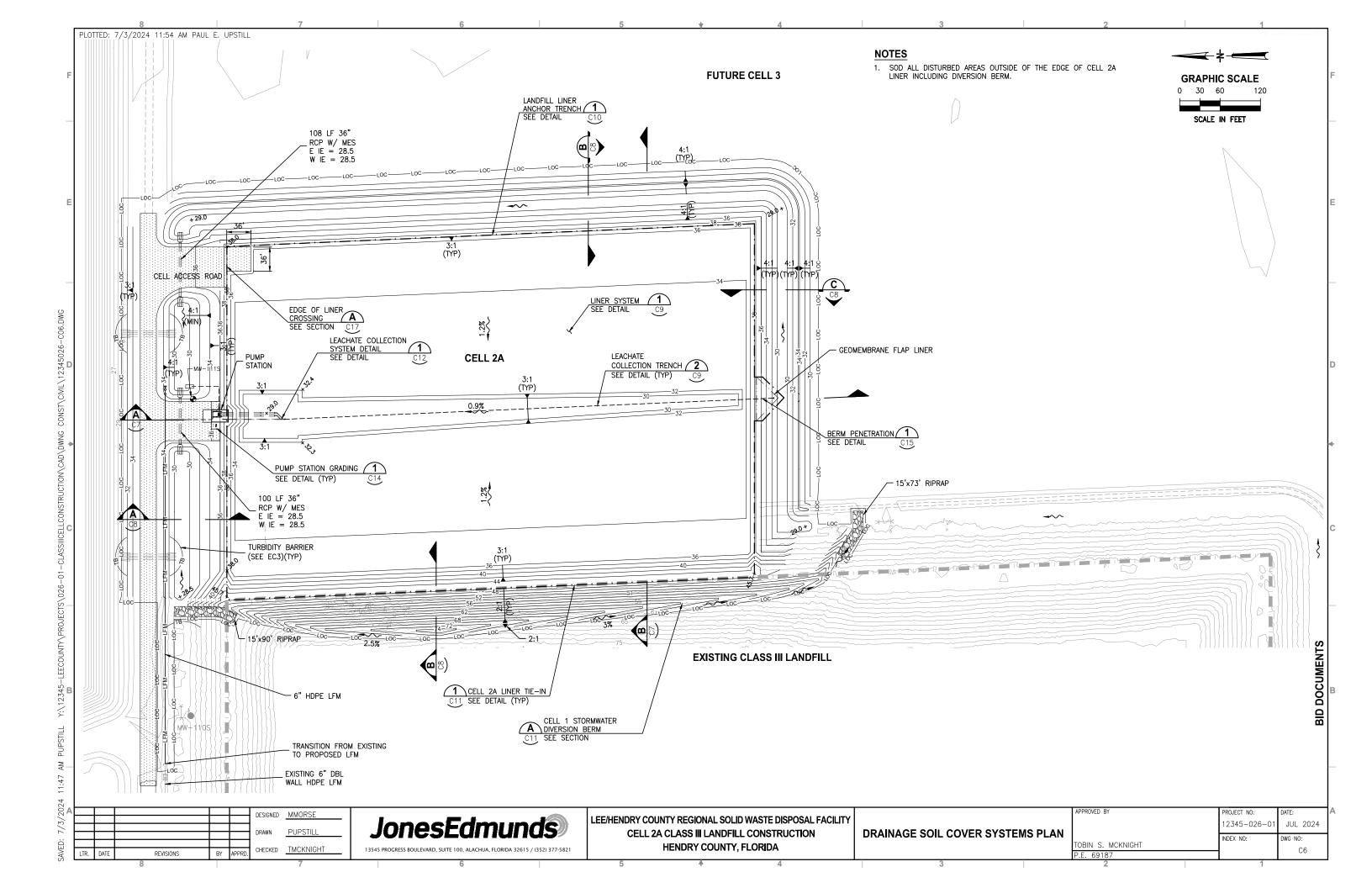






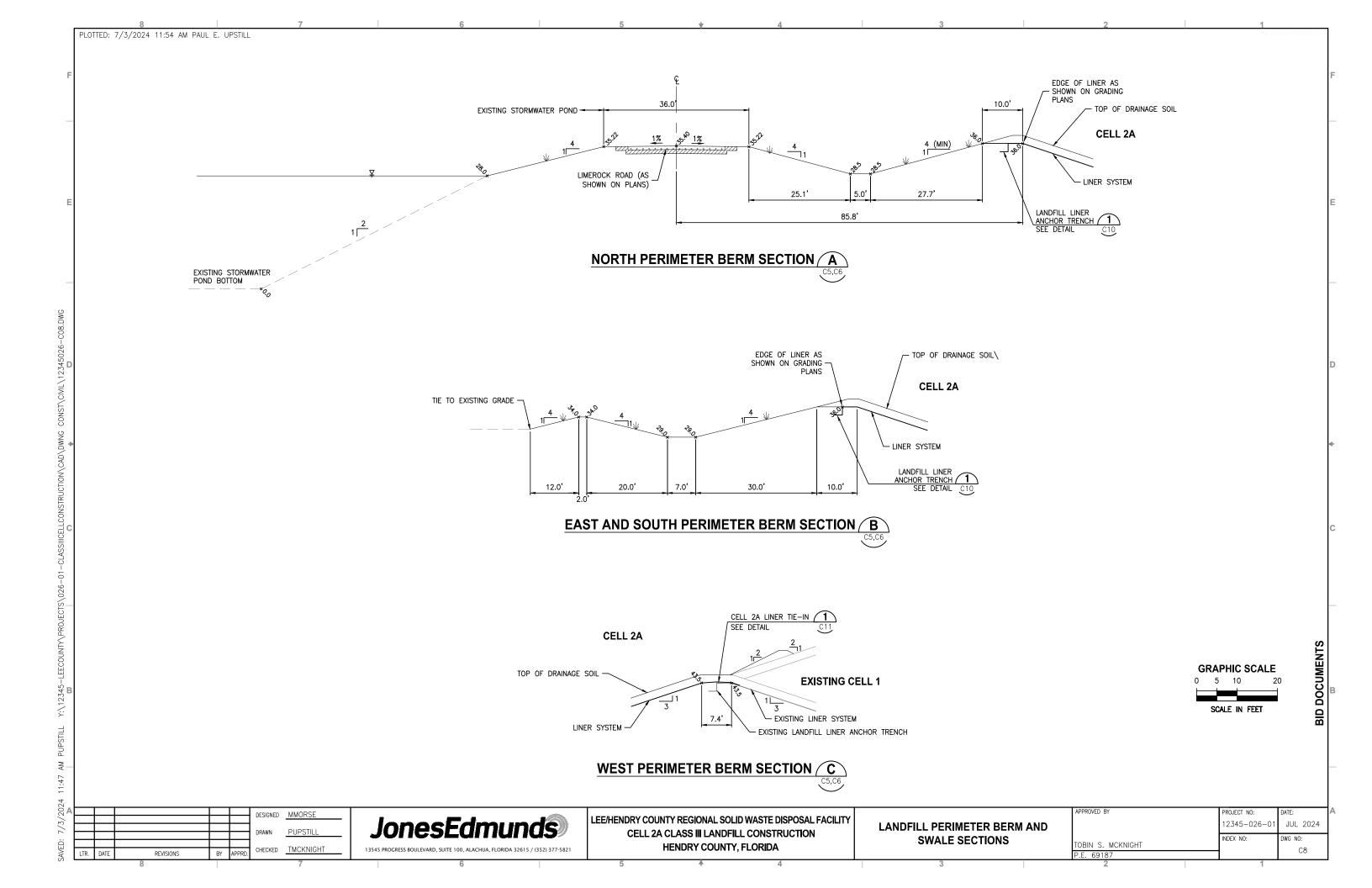


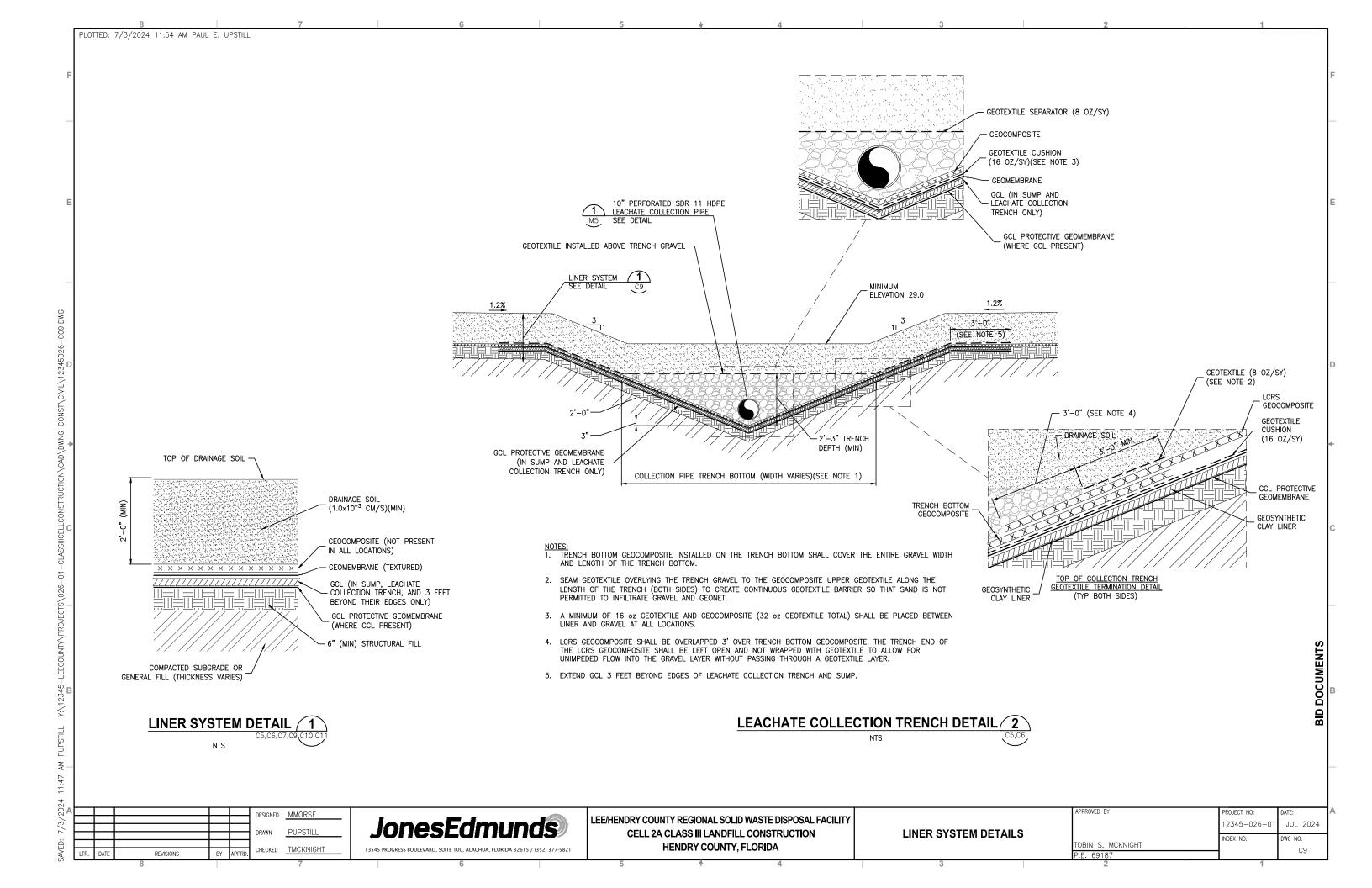




PLOTTED: 7/3/2024 11:54 AM PAUL E. UPSTILL TOP OF 2' DRAINAGE SOIL LANDFILL LINER ANCHOR TRENCH (TYP) TOP OF TRENCH GRAVEL LAYER CELL 2A FUTURE CELL 2B 0.9% EXISTING GRADE LINER SYSTEM

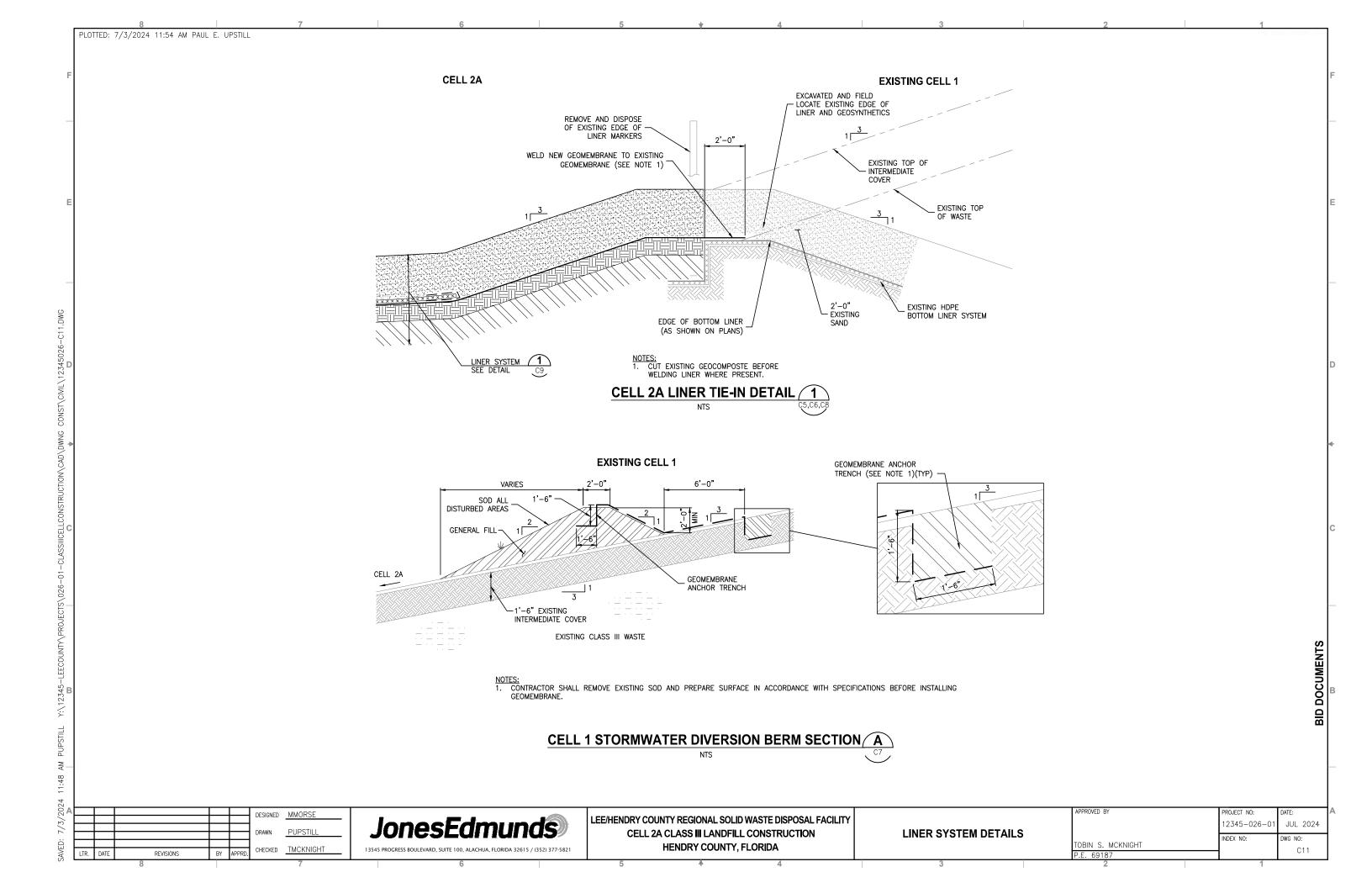
C9 SEE DETAIL 1 + 002+003+00 4+00 6+00 7 + 008+00 9+00 0+005+0010+00 11+00SECTION A **EXISTING** CELL 2A CELL 1 \_ TOP\_OF\_TRENCH GRAVEL\_LAYER - 4:1 (TYP) TOP OF 2' DRAINAGE SOIL LANDFILL LINER ANCHOR TRENCH (TYP) 1.2% 1 LINER SYSTEM C9 SEE DETAIL - EXISTING GRADE 0+001+002+003+00 4+00 5+00 6+00 7+00 SECTION B **GRAPHIC SCALE GRAPHIC SCALE** SCALE IN FEET SCALE IN FEET HORIZONTAL VERTICAL APPROVED BY PROJECT NO: DESIGNED MMORSE LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY **JonesEdmunds** 12345-026-01 JUL 2024 **CELL 2A CLASS III LANDFILL CONSTRUCTION** LANDFILL SECTIONS INDEX NO: DWG NO: TOBIN S. MCKNIGHT HENDRY COUNTY, FLORIDA CHECKED TMCKNIGHT C7 REVISIONS

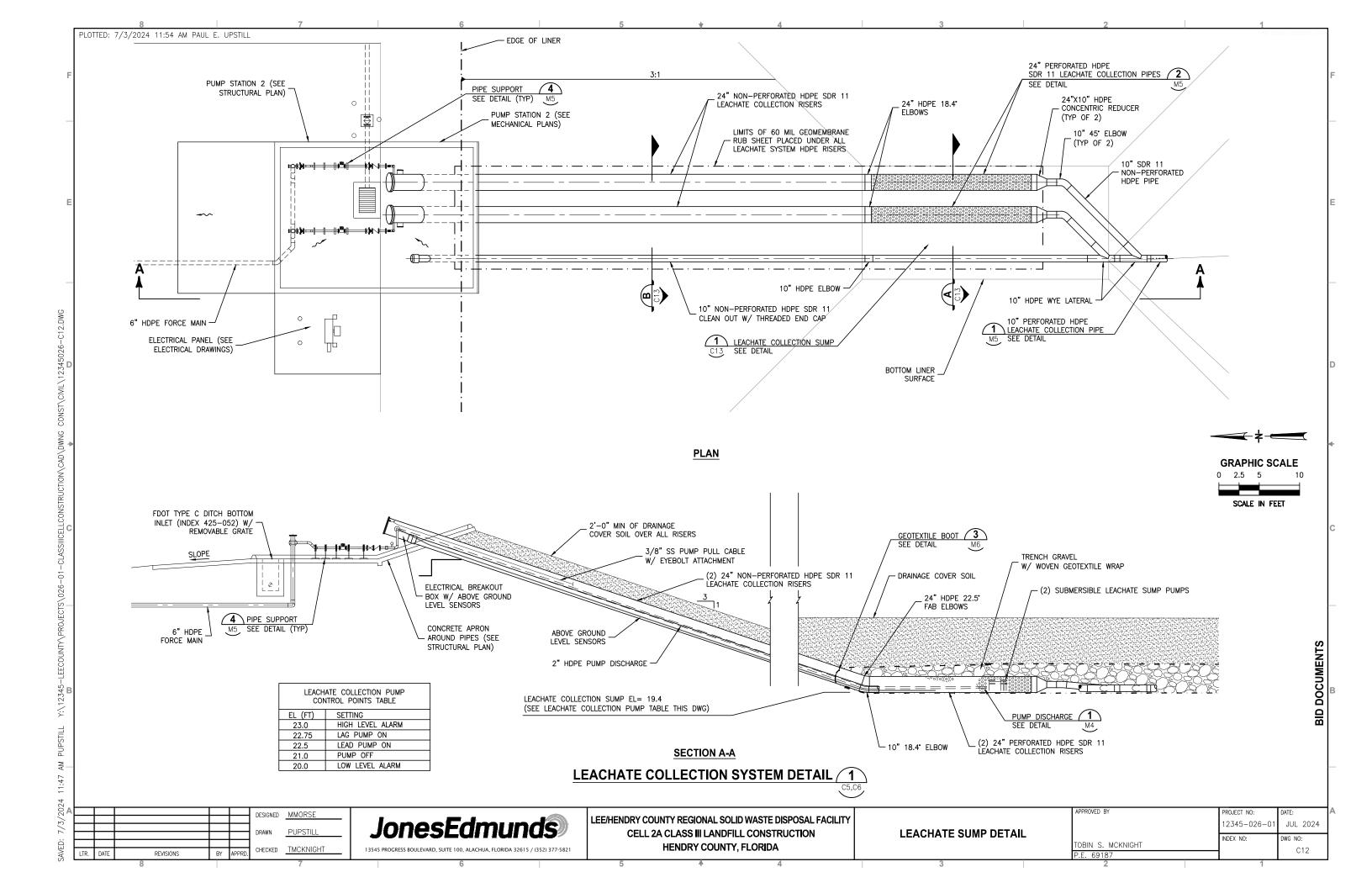


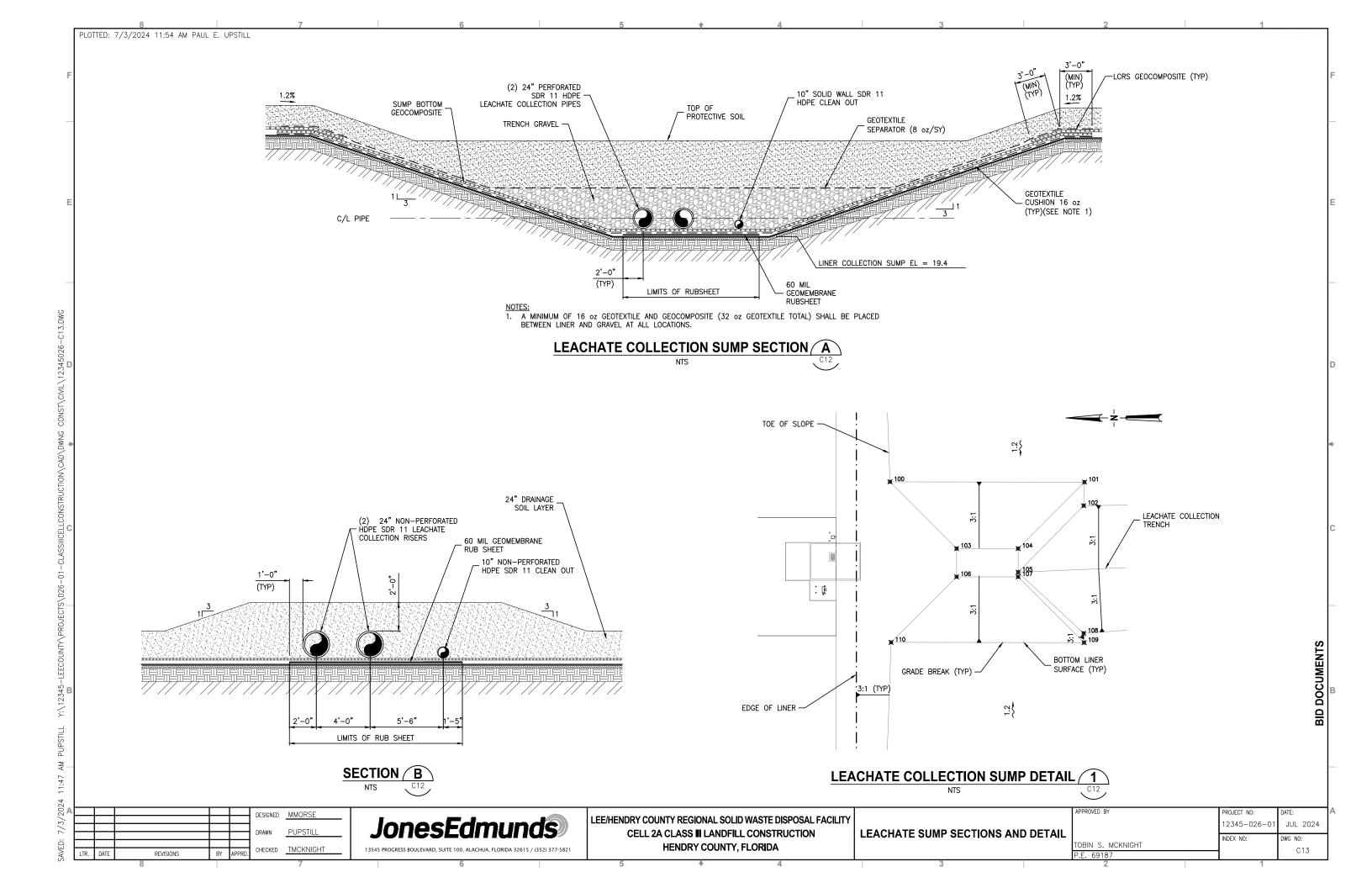


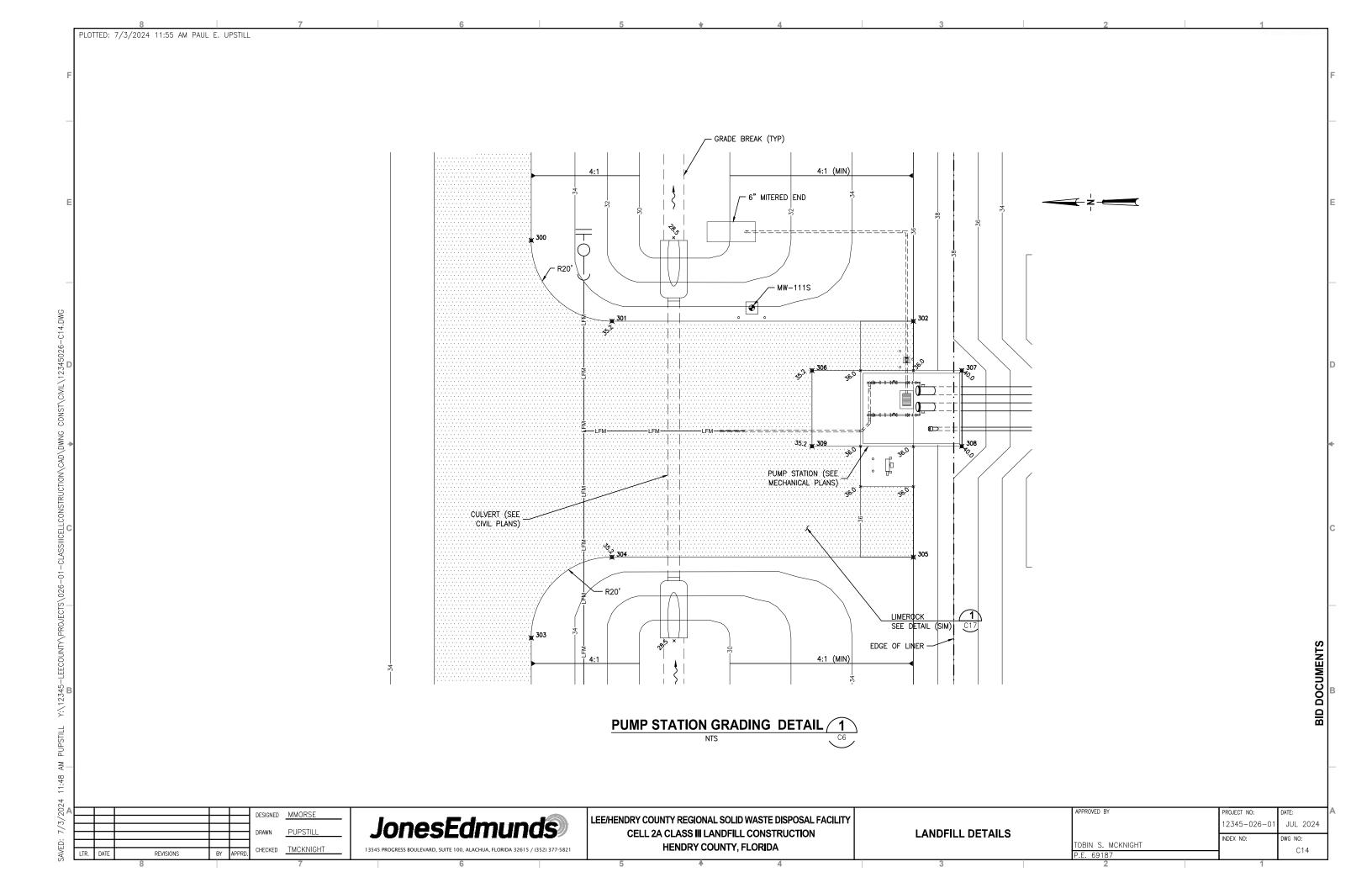
PLOTTED: 7/3/2024 11:54 AM PAUL E. UPSTILL BOTTOM LINER MARKER SEE DETAIL EDGE OF LINER MARKER 4"x4"x8'
TREATED WOOD POST, PAINTED YELLOW EDGE OF LINER AS SHOWN WITH OSHA SAFETY PAINT (SEE NOTE 1) ON PLANS CONTRACTOR MAY SUBSTITUTE DRAINAGE SOIL WITH BACKFILL IN AREA ABOVE ANCHOR TRENCH ANCHOR TRENCH FILL DRAINAGE SOIL EL VARIES 9" (MIN)-**GEOTEXTILE** (SEE NOTE 1) ANCHOR TRENCH COMPACTED SUBGRADE OR GENERAL FILL (THICKNESS VARIES) NOTES:

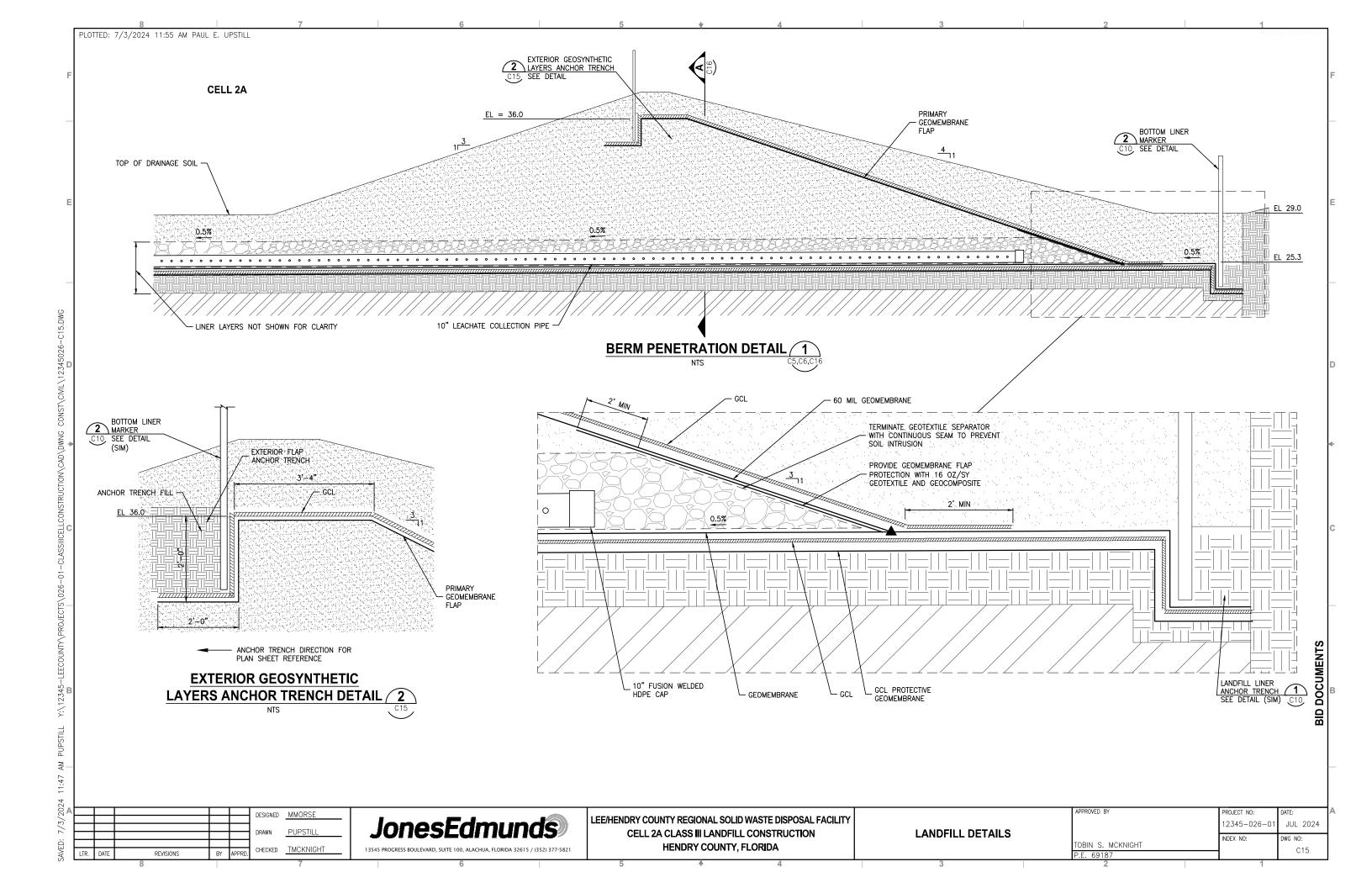
1. TERMINATE GEOCOMPOSITE AT TOE OF SLOPE UNLESS OTHERWISE INDICATED ON DRAWINGS. WRAP END OF GEOCOMPOSITE WITH 3' WIDE STRIP OF GEOTEXTILE TO PREVENT SAND INFILTRATION. ANCHOR TRENCH FILL NOTES:
1. INSTALL POSTS AT 50'-0" INTERVALS AROUND PERIMETER. LANDFILL LINER ANCHOR TRENCH DETAIL 1 BOTTOM LINER MARKER DETAIL 2 DESIGNED MMORSE LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY JonesEdmunds) 12345-026-01 JUL 2024 **CELL 2A CLASS III LANDFILL CONSTRUCTION LINER SYSTEM DETAILS** INDEX NO: DWG NO: TOBIN S. MCKNIGHT HENDRY COUNTY, FLORIDA CHECKED TMCKNIGHT C10 REVISIONS P.E. 69187

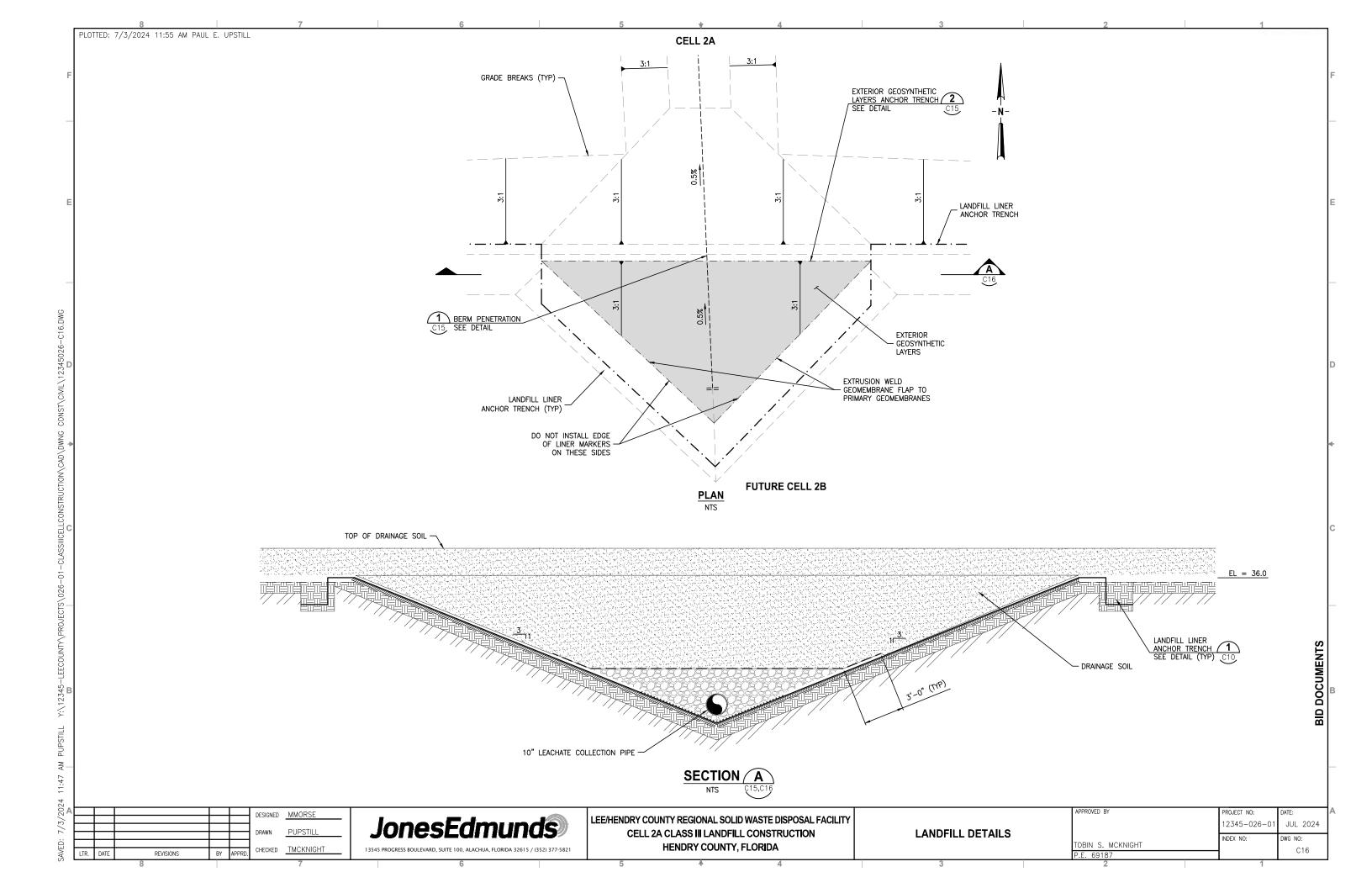


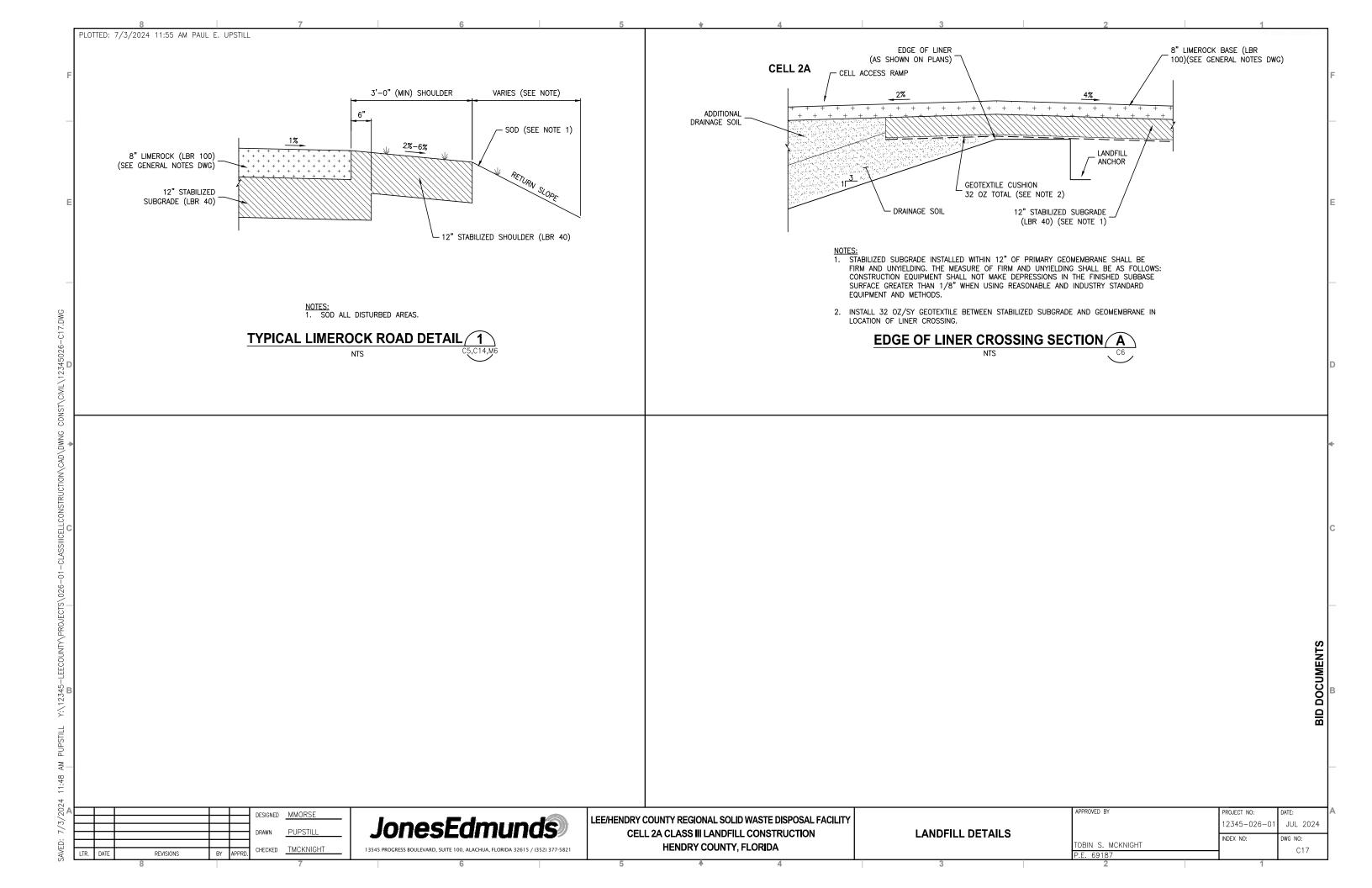








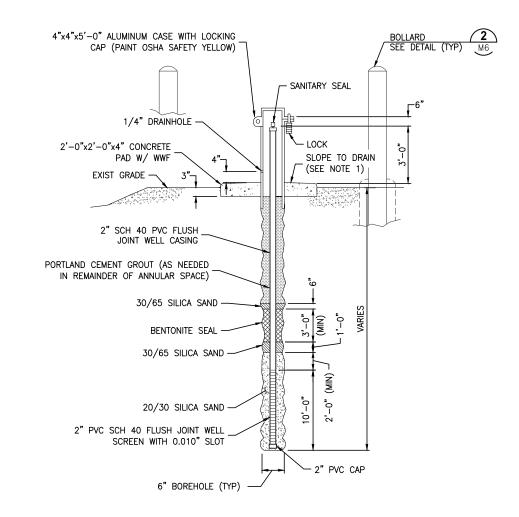




NOTES: ALL ELEVATIONS AND LOCATIONS ARE ESTIMATED VALUES TO BE UPDATED AFTER CONSTRUCTION AND SURVEY. FINAL ELEVATIONS OF SCREEN SHALL BE DETERMINED BY A GEOLOGIST (PROVIDED BY THE OWNER) IN THE FIELD.

NGVD = NATIONAL GEOLOGIC VERTICAL DATUM (1929)

BLS = BELOW LAND SURFACE



- NOTES:
  1. WHEN INSTALLED ON GROUND SLOPES OF 5% OR LESS, SLOPE PAD TO DRAIN. IF GROUND SLOPE EXCEEDS 5%, INSTALL PAD AT SLOPE GRADE.
- 2. INSTALL 2 BOLLARDS AT EVERY MONITORING WELL AS NEEDED.
- 3. GROUNDWATER MONITORING WELL ID SHALL BE PERMANENTLY PUNCHED IN ALUMINUM CASE.

**GROUNDWATER MONITORING WELL DETAIL** 

DESIGNED MMORSE CHECKED TMCKNIGHT REVISIONS

JonesEdmunds)

LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY **CELL 2A CLASS III LANDFILL CONSTRUCTION** HENDRY COUNTY, FLORIDA

**LANDFILL DETAILS** 

TOBIN S. MCKNIGHT P.E. 69187

12345-026-0 JUL 2024 INDEX NO: DWG NO: C18

#### **ABBREVIATIONS**

ALUMINUM ASSOCIATION STANDARD AMERICAN CONCRETE INSTITUTE AISI AMERICAN IRON AND STEEL INSTITUTE AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALUMINUM ALUM ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS AWS AMERICAN WELDING SOCIETY

ANGLE RLDG **BUILDING** CENTERLINE CENTER TO CENTER CONTROL JOINT

COLUMN COL CONC CONCRETE CON. CONTINUOUS

CRSI CONCRETE REINFORCING STEEL INSTITUTE DET

DIA Ø DIAMETER DWG DRAWING FΑ FI EVATION FΩ EQUAL. EQUALLY EW EACH WAY **EXIST EXISTING** 

FLORIDA BUILDING CODE

GAL V GALVANIZED LINEAR FEFT LIVE LOAD LONG LEG HORIZONTAL

LONG LEG VERTICAL MAX MIJMIXAM MECH MECHANICAL MFG MANUFACTURES MIN MINIMUM MISC MISCELLANEOUS NOT APPLICABLE N/A NOT IN CONTRACT NUMBER ON CENTER(S) PCF POUNDS PER CUBIC FOOT

PLATE POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH

RFINE REINFORCEMENT, REINFORCING SAW CUT CONTROL JOINT

SIM SIMIL AR SS STAINLESS STEEL STD STANDARD

STEEL Т&В TOP AND BOTTOM THK THICK TOP OF

VIF

WWF

TYP TYPICAL UNLESS NOTED OTHERWISE UNO VERTICAL VFR1 VERIFY IN FIELD

WELDED WIRE FABRIC

STRUCTURAL NOTES

#### **DESIGN CRITERIA AND LOADS**

1. DESIGN CRITERIA 1.2. ACI 318-08

2. LIVE LOAD

2.1. PUMP STATION SLAB-ON-GRADE 16,000 LB (CONCENTRATED)

250 PSF (UNIFORM)

2.2. CONCRETE PAVEMENT 16,000 LB (CONCENTRATED) 250 PSF (UNIFORM)

#### GENERAL

VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

#### SUBGRADE PREPARATION FOR SLABS ON GRADE

- EXCAVATE BELOW BOTTOM OF FOUNDATIONS AND SLABS ON GRADE AND PLACE AND COMPACT SATISFACTORY SOIL TO AT LEAST 95 PERCENT OF THE SOIL'S MAXIMUM DRY UNIT WEIGHT AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557 FOR AT LEAST 2 FEET BELOW THE BOTTOM OF
- SATISFACTORY SOIL SHALL BE DEFINED AS EXISTING SUBGRADE OR BORROW SOILS CLASSIFIED AS GW, GP, SW, SP, SM, OR ANY COMBINATION OF THESE CLASSIFICATIONS, AS DETERMINED BY ASTM D2487, WHICH ARE WITHIN 2% OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION, HAVE LESS THAN 12% SOIL FINES, AND ARE FREE OF ROCK OR GRAVEL LARGER THAN 2 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, ORGANICS, ROOTS, AND OTHER DELETERIOUS MATTER.
- DEWATER, AS REQUIRED, SUCH THAT SPECIFIED DEGREES OF COMPACTION ARE ATTAINED AND THE EXCAVATIONS ARE DRY AT THE TIME OF CONCRETE PLACEMENT.
- THE TESTING AGENCY SHALL TEST COMPACTION OF SOILS IN PLACE AS SPECIFIED IN SPECIFICATION SECTION 02301, EARTHWORK FOR LANDFILL CONSTRUCTION, AT A FREQUENCY OF ONE TEST PER 500 SQUARE FEET OR LESS OF COMPACTED PREPARED SUBGRADE AREA, BUT IN NO CASE FEWER THAN FIVE TESTS PER A PREPARED SUBGRADE AREA.
- DESIGN ALLOWABLE SOIL BEARING STRENGTH: 2000 PSF

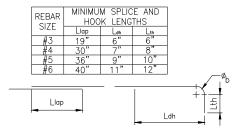
#### **CAST-IN-PLACE REINFORCED CONCRETE**

- WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10 SPECIFICATIONS FOR STRUCTURAL CONCRETE, EXCEPT AS MODIFIED BY THESE CONTRACT DOCUMENTS.
- 2. CONCRETE SHALL BE UNIFORM IN COLOR AND APPEARANCE.
- LIKE ITEMS OF MATERIALS SHALL BE THE END PRODUCTS OF ONE MANUFACTURER.
- 4. CONCRETE SHALL COMPLY WITH ACI 301 AND THE FOLLOWING CONCRETE MIX
- EXPOSURE CLASSES: S1, F0, P1, C1.
- NOMINAL MAXIMUM AGGREGATE SIZE: 1 INCH OR 1-1/2 INCH 4.2. CONCRETE COMPRESSIVE STRENGTH 4,000 PSI AT 28 DAYS.
- CEMENT: DOMESTIC PORTLAND CEMENT COMPLYING WITH ASTM C150
- ADMIXTURES SHALL BE FREE OF CHLORIDES AND ALKALIS (EXCEPT FOR THOSE ATTRIBUTABLE TO WATER). WHEN MORE THAN ONE ADMIXTURE IS REQUIRED TO BE USED IN A CONCRETÉ MIX. THE ADMIXTURES SHALL BE FROM THE SAME MANUFACTURER. ADMIXTURES SHALL BE COMPATIBLE WITH THE CONCRETE MIX.
- FLY ASH: ASTM C618, CLASS F EXCEPT THAT THE LOSS ON IGNITION SHALL BE LIMITED TO 3% MAXIMUM.
- MINIMUM SYNTHETIC FIBER REINFORCEMENT CONTENT: WHERE SPECIFIED, PROVIDE 10 POUNDS PER CUBIC YARD.
- SLUMP MEASURED AT DISCHARGE SHALL BE NO GREATER THAN 5"±1".
- CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR EACH TYPE OF CONCRETE USED FOR APPROVAL PRIOR TO CONSTRUCTION.
- 5. REINFORCING BARS SHALL BE UNCOATED DEFORMED BARS CONFORMING TO ASTM
- 6. SYNTHETIC FIBER REINFORCEMENT SHALL BE FORTA-FERRO MANUFACTURED BY THE FORTA CORPORATION, OR ENGINEER APPROVED EQUIVALENT. ADD FIBERS AT THE
- REINFORCEMENT LAP SPLICES AND HOOKS SHALL BE PER THE REBAR SPLICE AND HOOK SCHEDULE
- 8. CONCRETE COVER FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE:
- 8.1 CAST AGAINST GROUND ALL OTHER CASES
- 9. TOLERANCE FOR CONCRETE COVER FOR REINFORCEMENT SHALL BE  $\pm 1/2$ ".
- 10. PROVIDE 3/4" CHAMFER ON EXPOSED EDGES OF CONCRETE
- 11. CONCRETE SHALL BE READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM C94. SUBMIT DELIVERY TICKETS FOR ALL CAST-IN-PLACE CONCRETE FOR REVIEW.
- 12. CURE ALL CAST-IN-PLACE CONCRETE IN ACCORDANCE WITH ACI 308.1-2011.
- 13. CONCRETE FOR THE FOLLOWING CONDITIONS SHALL BE FINISHED IN ACCORDANCE WITH ACI 301 AS FOLLOWS:
- SLAB ON GRADE: BROOM FINISH
- CONCRETE PAVEMENT: BROOM FINISH
- FOUIPMENT CROSSING: BROOM FINISH

#### **CAST-IN-PLACE CONCRETE QUALITY CONTROL TESTING**

- THE CONTRACTOR SHALL HIRE A TESTING AGENCY MEETING THE REQUIREMENTS OF ASTM E329 TO PERFORM FIELD AND LABORATORY
- THE TESTING AGENCY SHALL TAKE SETS OF THREE CONCRETE TEST CYLINDERS DURING THE PROGRESS OF THE WORK IN ACCORDANCE WITH ASTM C31. THE NUMBER OF SETS OF CONCRETE TEST CYLINDERS TAKEN EACH DAY SHALL NOT BE FEWER THAN THREE SETS OR LESS THAN ONE SET FOR EACH 50 CUBIC YARDS OF CONCRETE.
- 3. THE TESTING AGENCY SHALL TEST EACH SET OF CONCRETE TEST CYLINDERS IN ACCORDANCE WITH ASTM C39. ONE CYLINDER SHALL BE TESTED AT 7 DAYS AND TWO CYLINDERS SHALL BE TESTED AT 28 DAYS FOR EACH SET OF CONCRETE TEST CYLINDERS. SUBMIT TEST REPORTS TO THE ENGINEER FOR APPROVAL.
- 4. THE TESTING AGENCY SHALL PERFORM SLUMP TESTS OF CONCRETE IN ACCORDANCE WITH ASTM C143. THE NUMBER OF SLUMP TESTS SHALL BE 1 FOR EACH REQUIRED SET OF CONCRETE STRENGTH TEST CYLINDERS. SUBMIT TEST REPORTS TO THE ENGINEER FOR APPROVAL

#### **REBAR SPLICE AND HOOK SCHEDULE (UNO)**



- BEND DIAMETER (Øb) SHALL BE 6 TIMES THE BAR DIAMETER.
- Liap LAP SPLICE DEVELOPMENT LENGTH Ldh - HOOK DEVELOPMENT LENGTH Lth - HOOK TAIL LENGTH

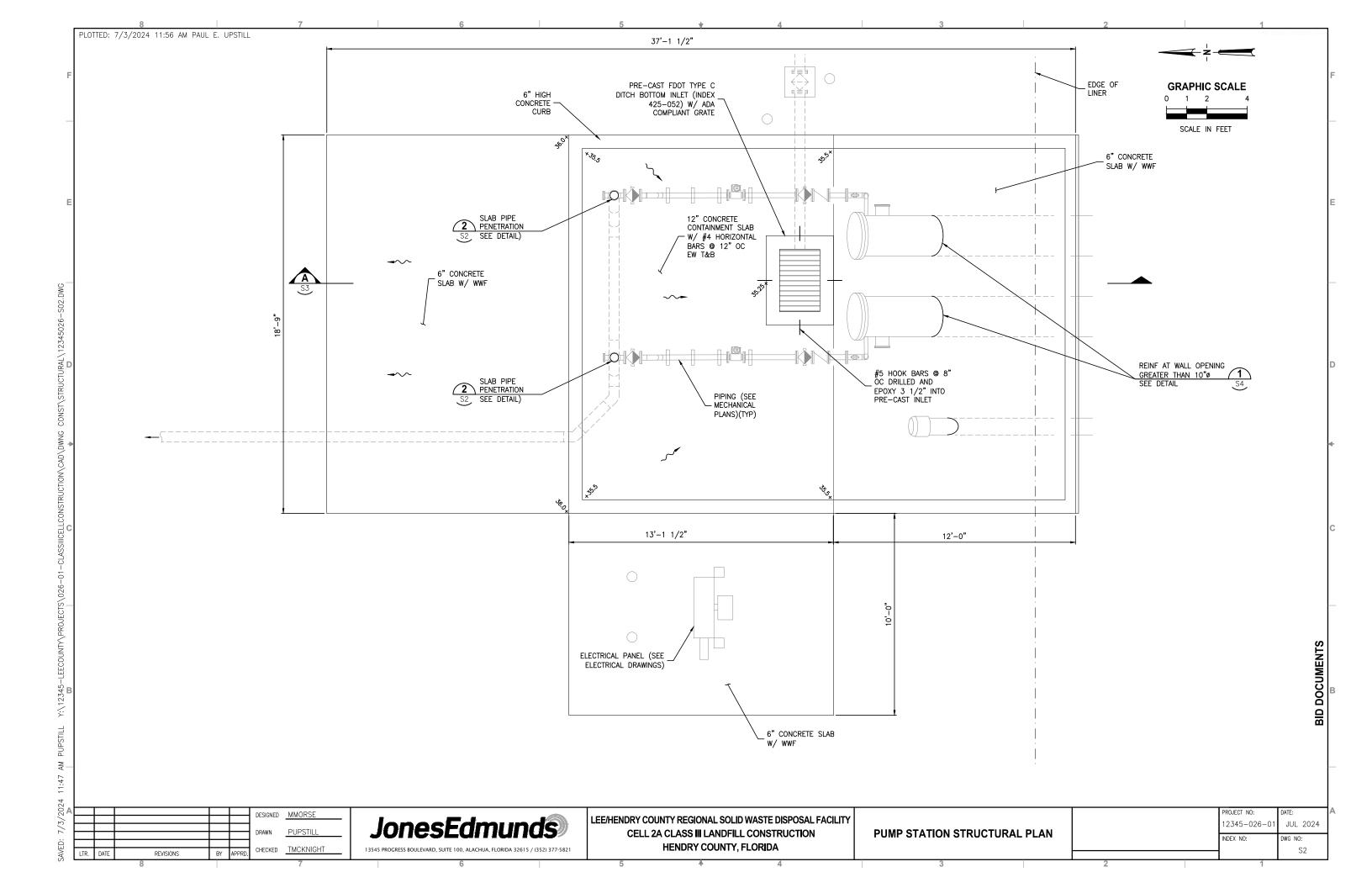
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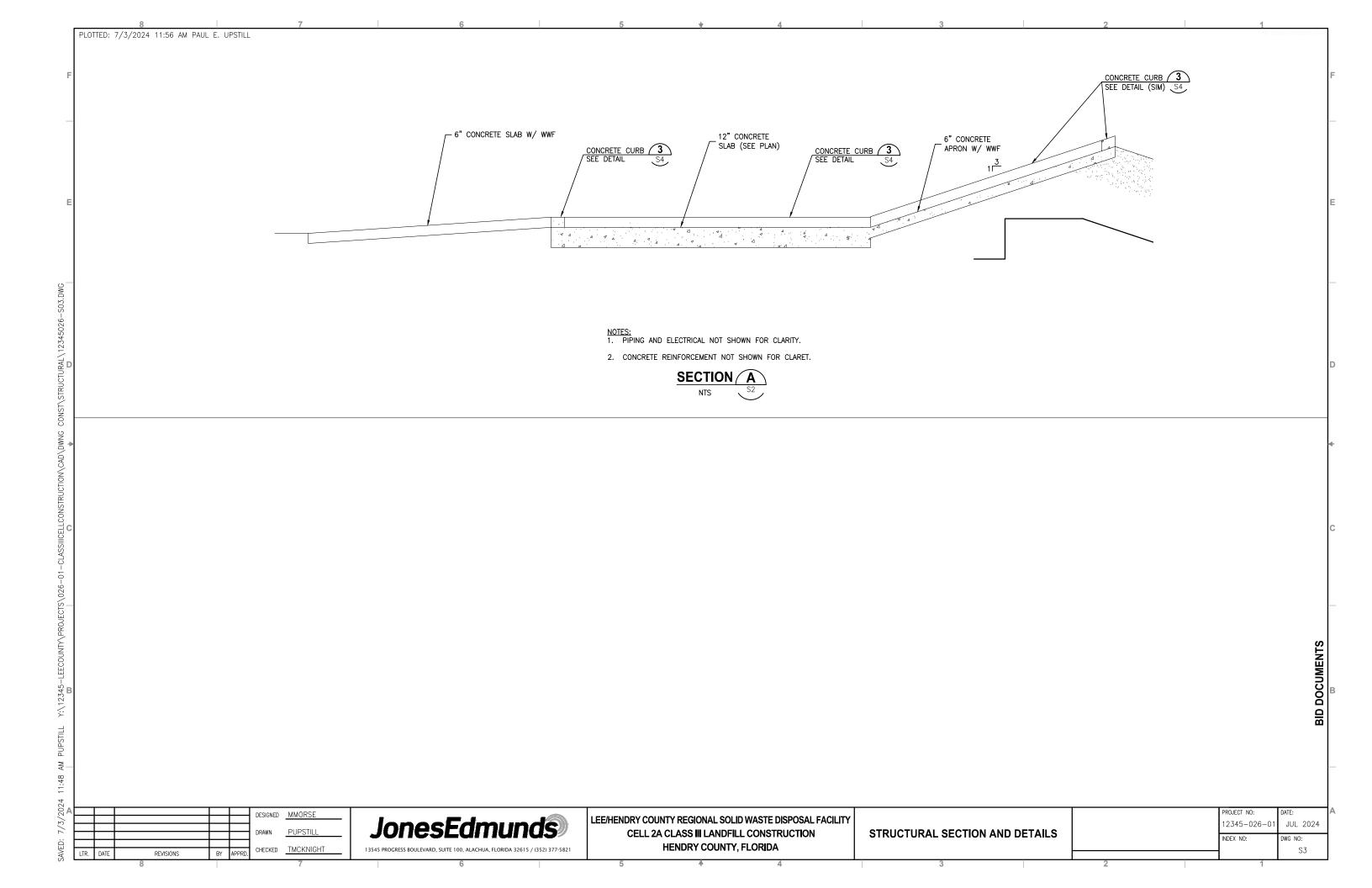
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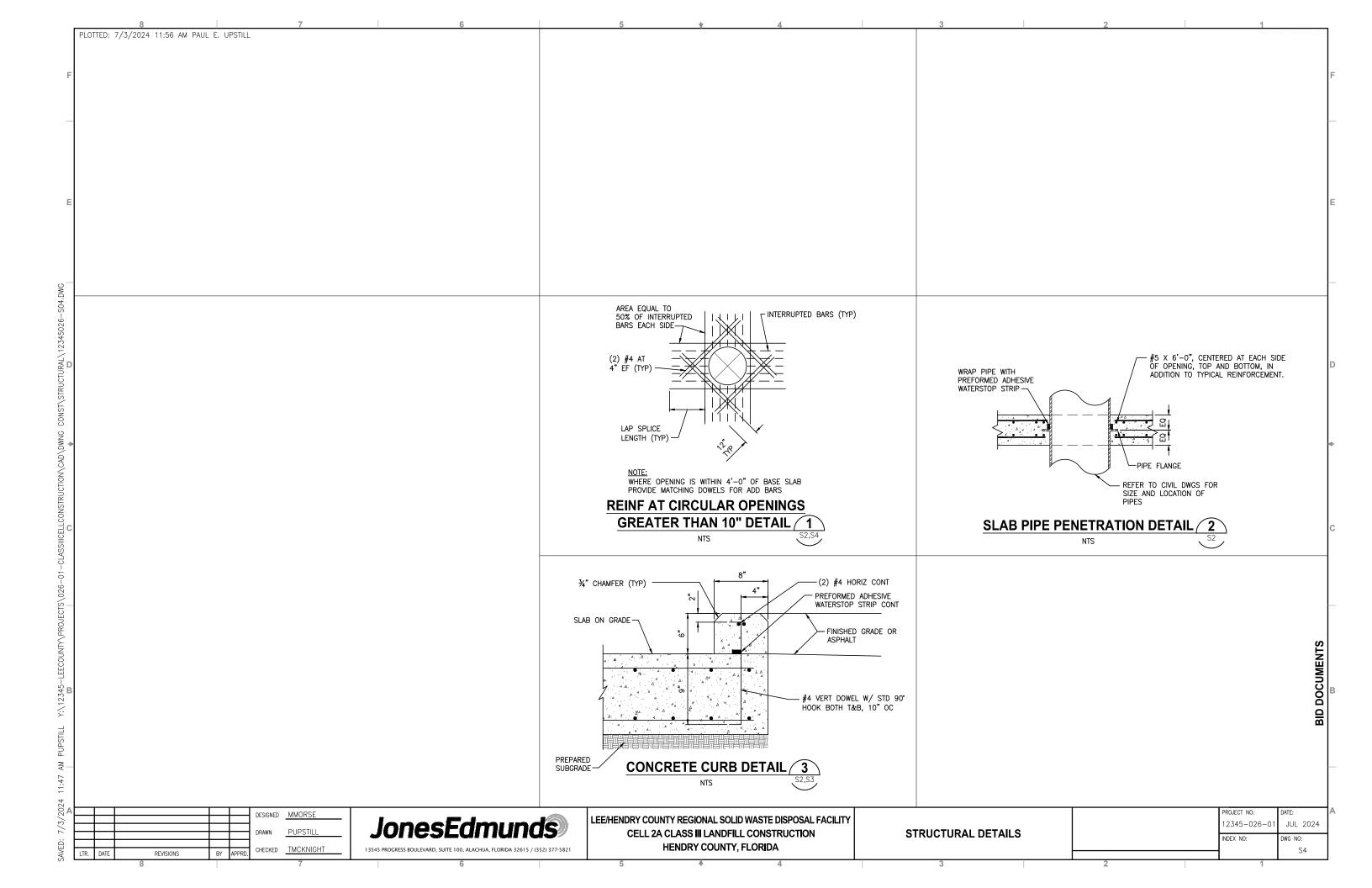
LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY **CELL 2A CLASS III LANDFILL CONSTRUCTION** HENDRY COUNTY, FLORIDA

STRUCTURAL NOTES AND LEGEND

ROJECT NO: 12345-026-0 JUL 2024 INDEX NO: DWG NO: S1







PLOTTED: 7/3/2024 11:56 AM PAUL E. UPSTILL **MECHANICAL ABBREVIATIONS MECHANICAL LEGEND VALVE SYMBOLS PIPING SYMBOLS** ARV AMERICAN SOCIETY FOR TESTING AND MATERIALS
BITUMINOUS COATED CORRUGATED METAL PIPE ASTM DOUBLE LINE SINGLE LINE — GATE BCCMP DOUBLE LINE SINGLE LINE BI D BLIND В۷ BALL VALVE BUTTERFLY BWJ BUTT-WELDED JOINT +C+LATERAL UP **MECHANICAL** BALL CI CMP CONC —DXXI— CORRUGATED METAL PIPE **BCCMP** BITUMINOUS COATED +2+ LATERAL DOWN CONCRETE WELDED PIPE CHECK CORRUGATED METAL PIPE DFPTH DUCTILE IRON — DIAPHRAGM BALL VALVE  $\longrightarrow$ CONCENTRIC REDUCER DUCTILE IRON PIPE FLANGED JOINT BWJ BUTT-WELDED JOINT ELL FIG CMP CORRUGATED METAL PIPE NEEDLE FIGURE -4ECCENTRIC REDUCER DUCTILE IRON MECHANICAL JOINT OR FJ FLG FLANGED JOINT DUCTILE IRON PIPE RESTRAINED PUSH-ON JOINT FI ANGE PLUG ELL FM **FORCEMAIN** FLBOW UNION FLANGED JOINT FNPT FEMALE NATIONAL PIPE THREAD FLEXIBLE COUPLING ADAPTER FLG PRESSURE RELIEF FRP FIBERGLASS REINFORCED PLASTIC FI ANGE CAP FIBERGLASS REINFORCED PLASTIC GALV GALVANIZED LONG RADIUS AIR RELEASE AND/OR VACUUM RELIEF GV HDPE EXPANSION JOINT GATE VALVE MECHANICAL JOINT HIGH DENSITY POLYETHYLENE ANCHOR INSIDE DIAMETER AMER. STD. TAPER PIPE THREAD -REGULATED SIDE ID INVERT ELEVATION PLAIN END **HUB & SPIGOT JOINT** HYDRAULIC CONTROL VALVE INTERNATIONAL PLUG VALVE LENGTH PVC POLYVINYL CHLORIDE ——||—— UNION LEACHATE FORCE MAIN LFM RED REDUCER BALL JOINT RTR REINFORCED THERMOSETTING RESIN I R LONG RADIUS \_\_\_\_ 🦅 \_\_\_ BALL CHECK SOF MIN MINIMUM SLIP-ON FLANGE CONST\MECHANICAL\12345026-FLANGED COUPLING ADAPTER MJ MECHANICAL JOINT WELDED JOINT W/ THRUST TIES MNPT MALE NATIONAL PIPE THREAD No. **ACTUATOR SYMBOLS** AMER. STD. TAPER PIPE THREAD NPT FLEXIBLE COUPLING WITH OC ON CENTER(S), OPEN-CLOSE(D) THRUST TIFS OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION **OSHA** CROSS ELECTRIC MOTOR PE PSIG PLAIN FND POUNDS PER SQUARE INCH, GAUGE BLIND FLANGE PV PVC RCP PLUG VALVE ELECTROHYDRAULIC POLYVINYL CHLORIDE **O**+ ELBOW UP REINFORCED CONCRETE PIPE RED REDUCER **PNEUMATIC** REQ, REQUIRED ELBOW, 90 DEGREE ELBOW DOWN REINFORCED THERMOSETTING RESIN RTR SCH SDR SOF SS SCHEDULE STANDARD DIMENSION RATIO HYDRAULIC TEE UP ELBOW, 45 DEGREE SLIP-ON FLANGE STAINLESS STEEL S SOLENOID THRD THREADED <del>-121-</del> TEE DOWN TYP **TYPICAL** ELBOW, 22.5 DEGREE WIDTH MANUAL FEMALE QUICK DISCONNECT FITTING W/ WITH WĴ WELDED JOINT NOTE: WELDED WIRE FABRIC WWF MALE QUICK DISCONNECT FITTING  $\langle 1$ ABANDON IN PLACE CROSS-LINKED POLYETHYLENE XI PF ON LOSS OF PRIMARY POWER ACTUATOR NUMBER DESIGNATION (PNEUMATIC, ELECTRICAL OR HYDRAULIC)
XX: FO = FAIL OPEN
FC = FAIL CLOSED  $\triangle_1$ PIPE SUPPORT AND TYPE DEMOLISH AND REMOVE FLP = FAIL TO LAST POSITION **MECHANICAL NOTES** 1. ALL PIPING SHALL HAVE A MINIMUM COVER OF 36" BELOW FINAL GRADE UNLESS EXISTING PIPE AND EQUIPMENT IS SHOWN IN THE DRAWINGS AS LIGHT-LINED OTHERWISE NOTED. AND/OR SCREENED. PROPOSED PIPE AND EQUIPMENT IS SHOWN IN THE DRAWINGS AS HEAVY-LINED. ABOVE GRADE PIPE AND EQUIPMENT IS SHOWN 2. WHERE IT IS NECESSARY TO DEFLECT PRESSURE PIPE EITHER HORIZONTALLY OR IN DRAWINGS AS SOLID-LINED, BELOW GRADE PIPE AND FOLIPMENT IS VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S SHOWN IN DRAWINGS AS DASHED-LINED, SEE BELOW EXAMPLES: RECOMMENDED DEFLECTION ANGLE OR A MINIMUM BENDING RADIUS OF 25 TIMES THE OUTSIDE DIAMETER OF THE PIPE EXISTING PIPE (ABOVE GRADE) 3. ALL PIPING SHALL BE PROPERLY SUPPORTED. ALL PIPING WHICH WILL BE PRESSURIZED NEW PIPE (BELOW GRADE) DURING OPERATION SHALL BE PROPERLY RESTRAINED. 4. ALL PIPING AND FITTINGS SHALL BE FUSION WELDED HDPE SDR 11 UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. 5. NOT ALL FLANGE AND MECHANICAL JOINT CONNECTIONS ARE SHOWN FOR CLARITY. ALL ABOVE GRADE DUCTILE IRON FITTINGS SHALL BE FLANGED. ALL BELOW GRADE DUCTILE IRON FITTINGS SHALL BE MECHANICAL JOINT. 6. CONTRACTOR SHALL RESTRAIN ALL BELOW GRADE PIPE.

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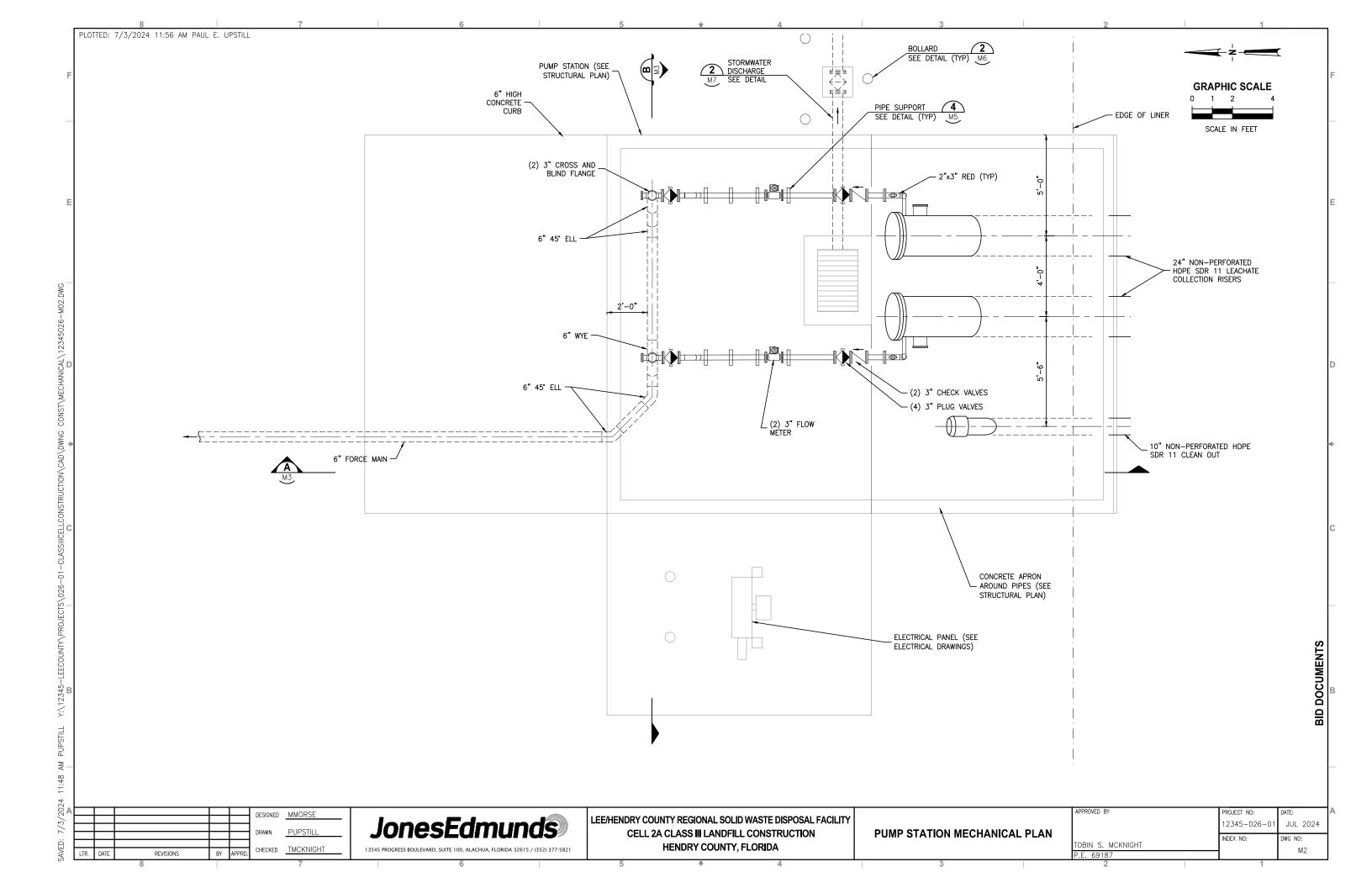
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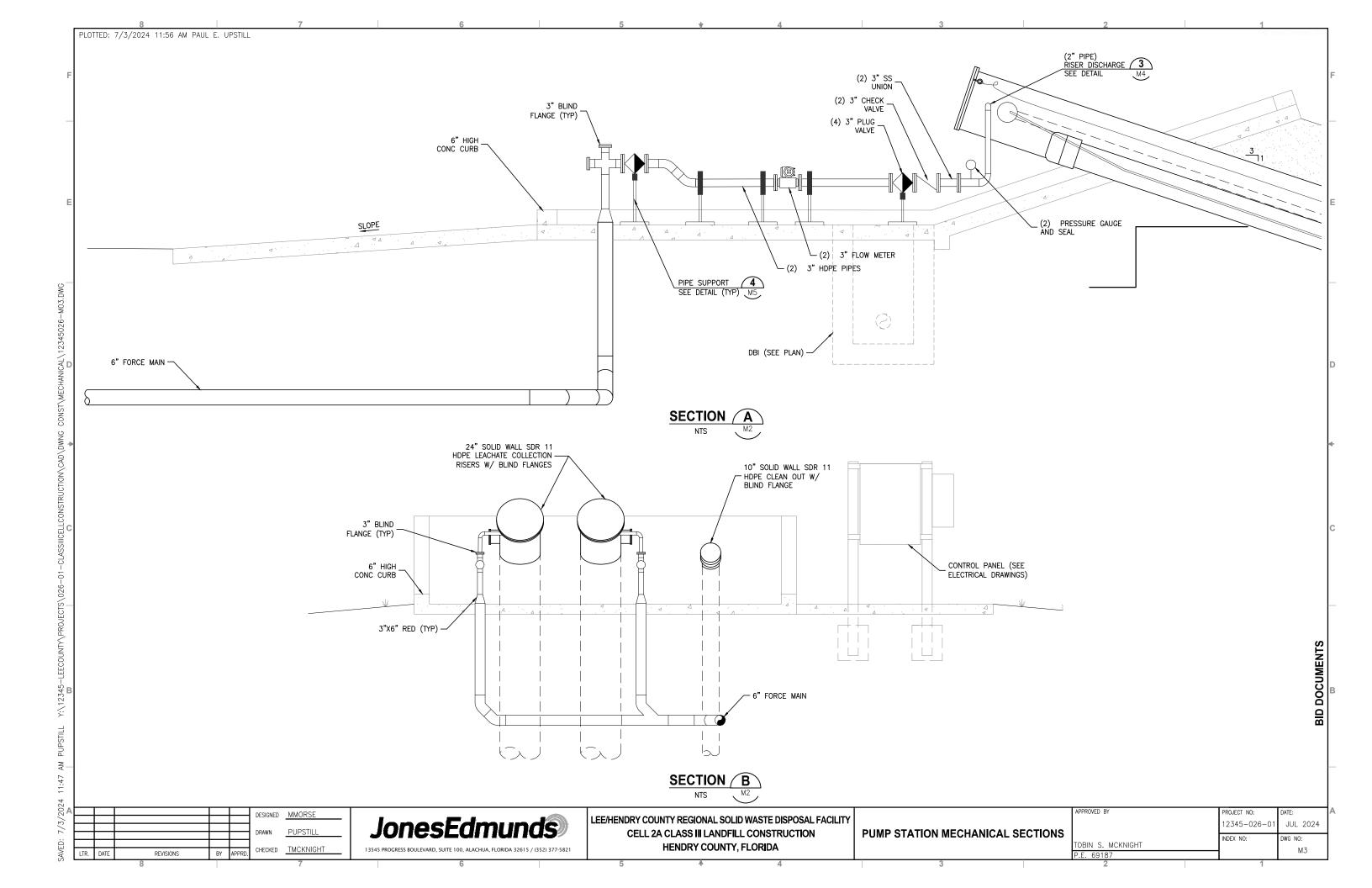
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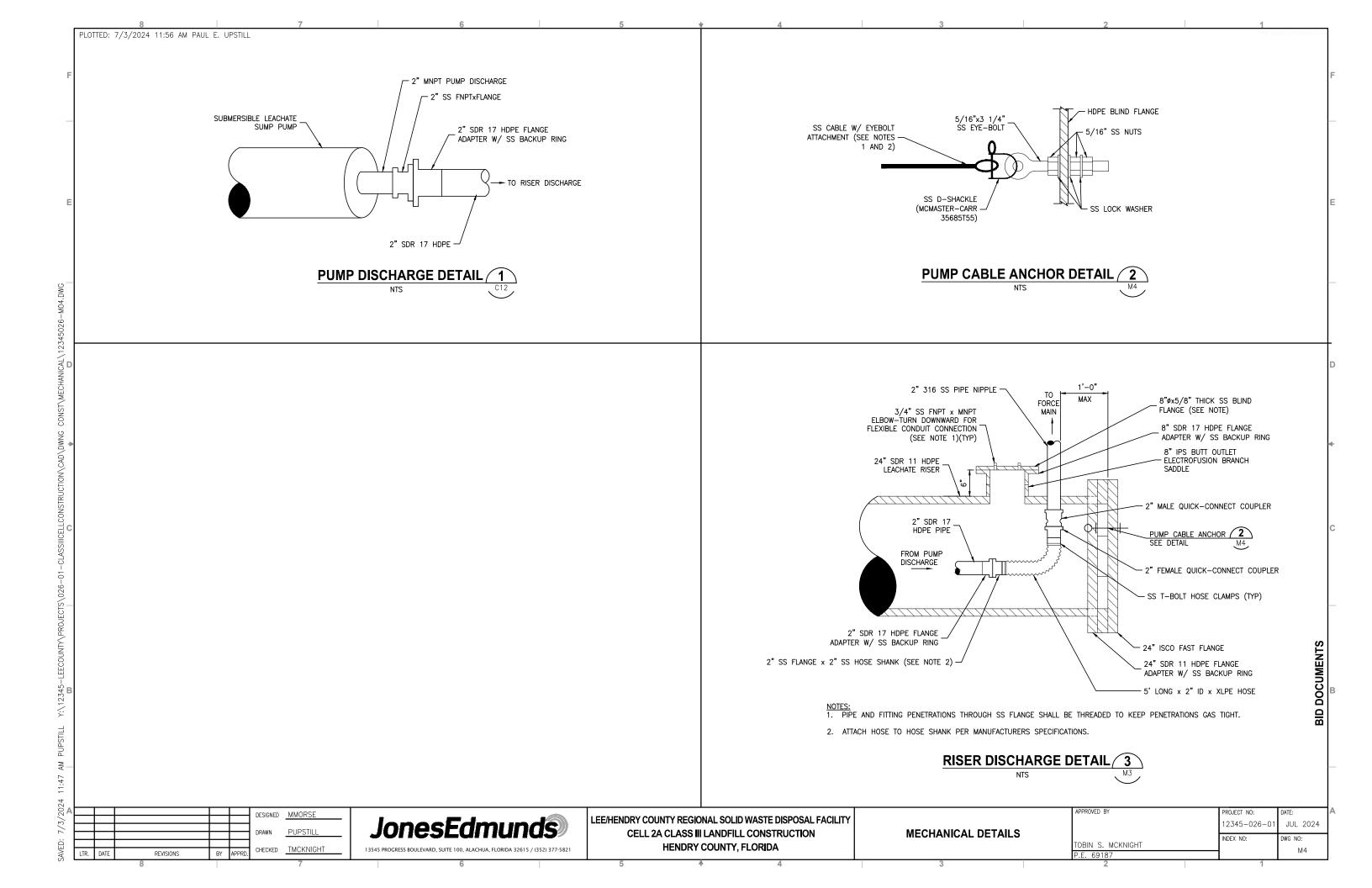
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CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

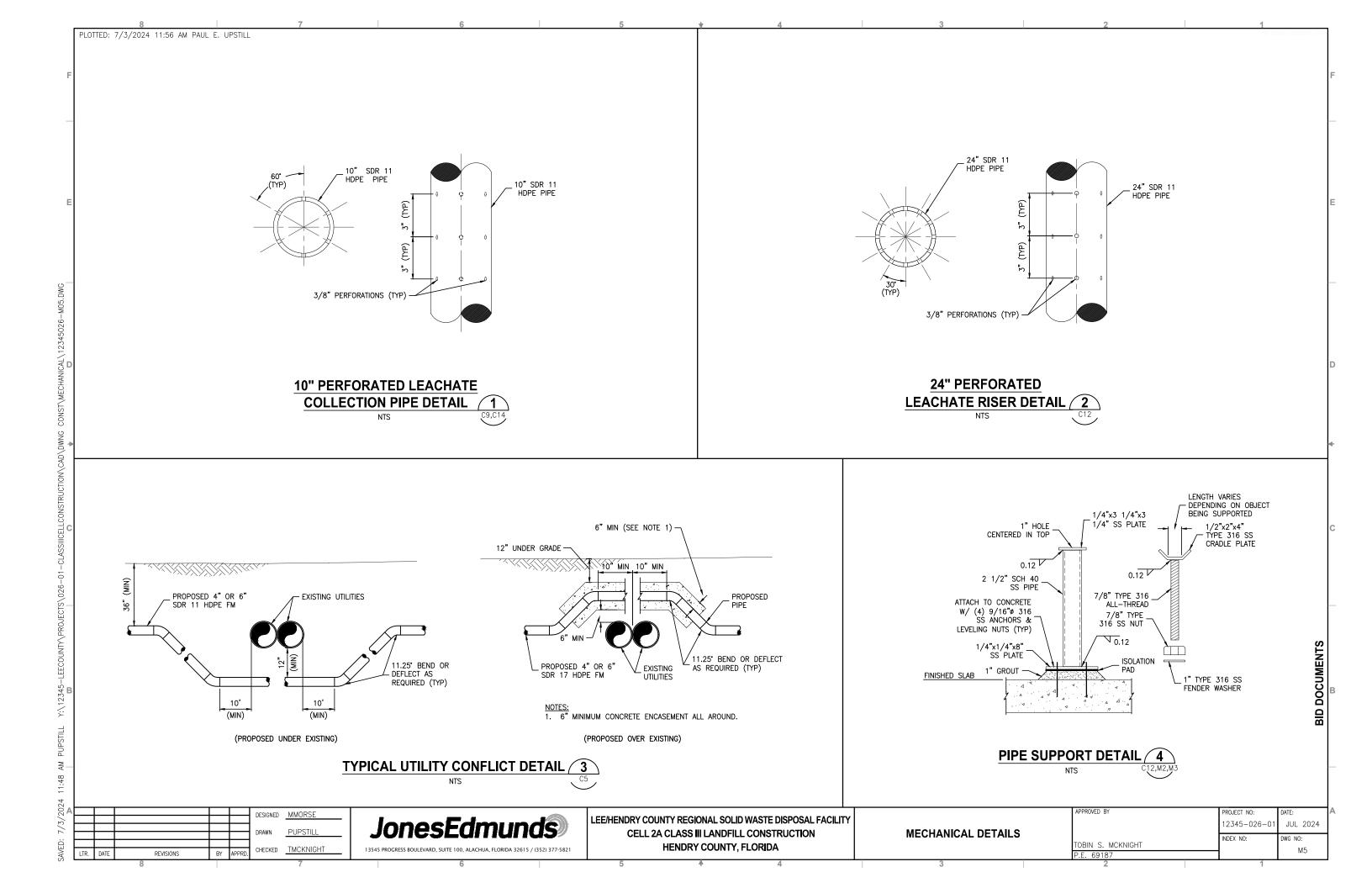
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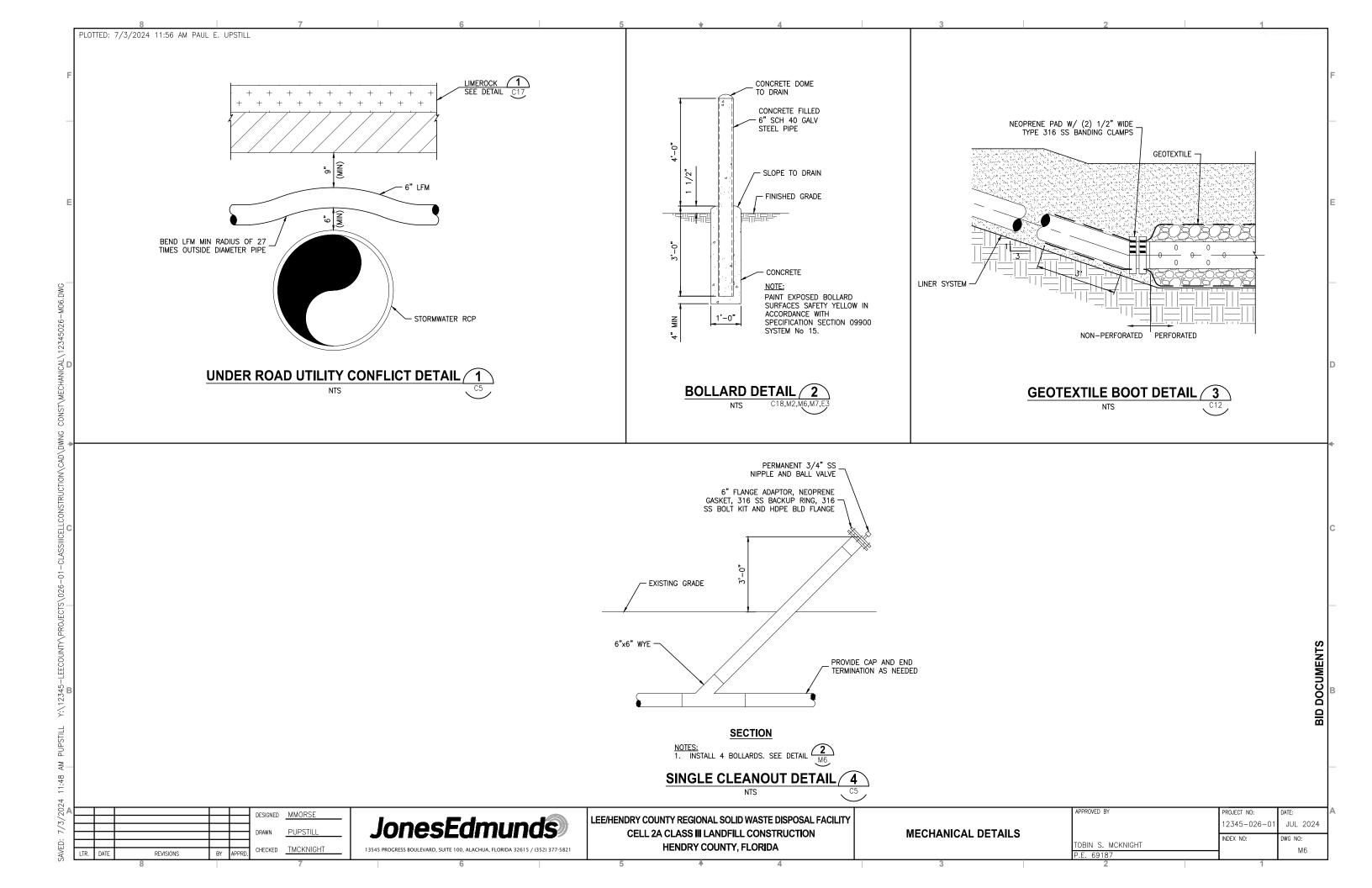
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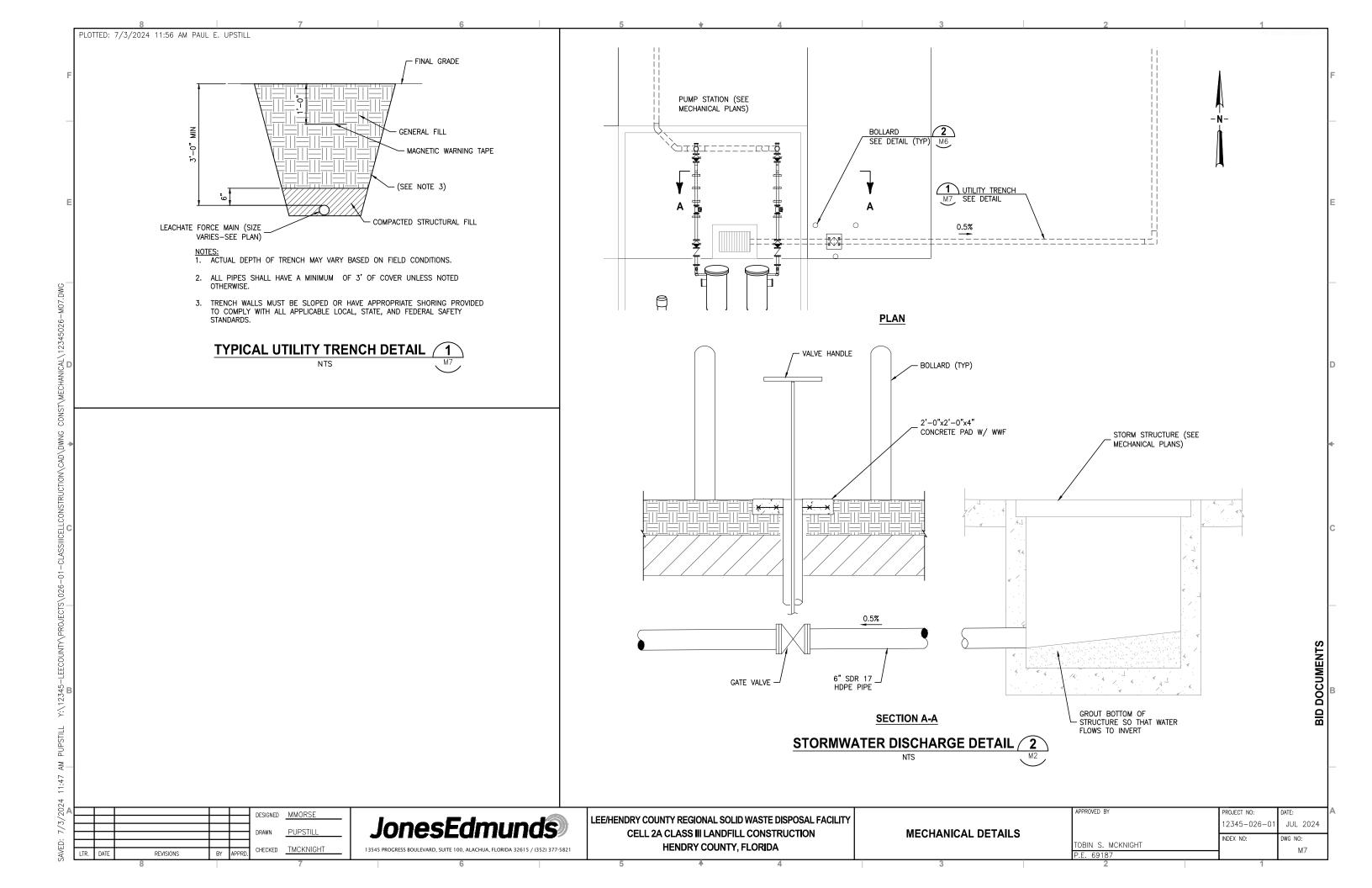




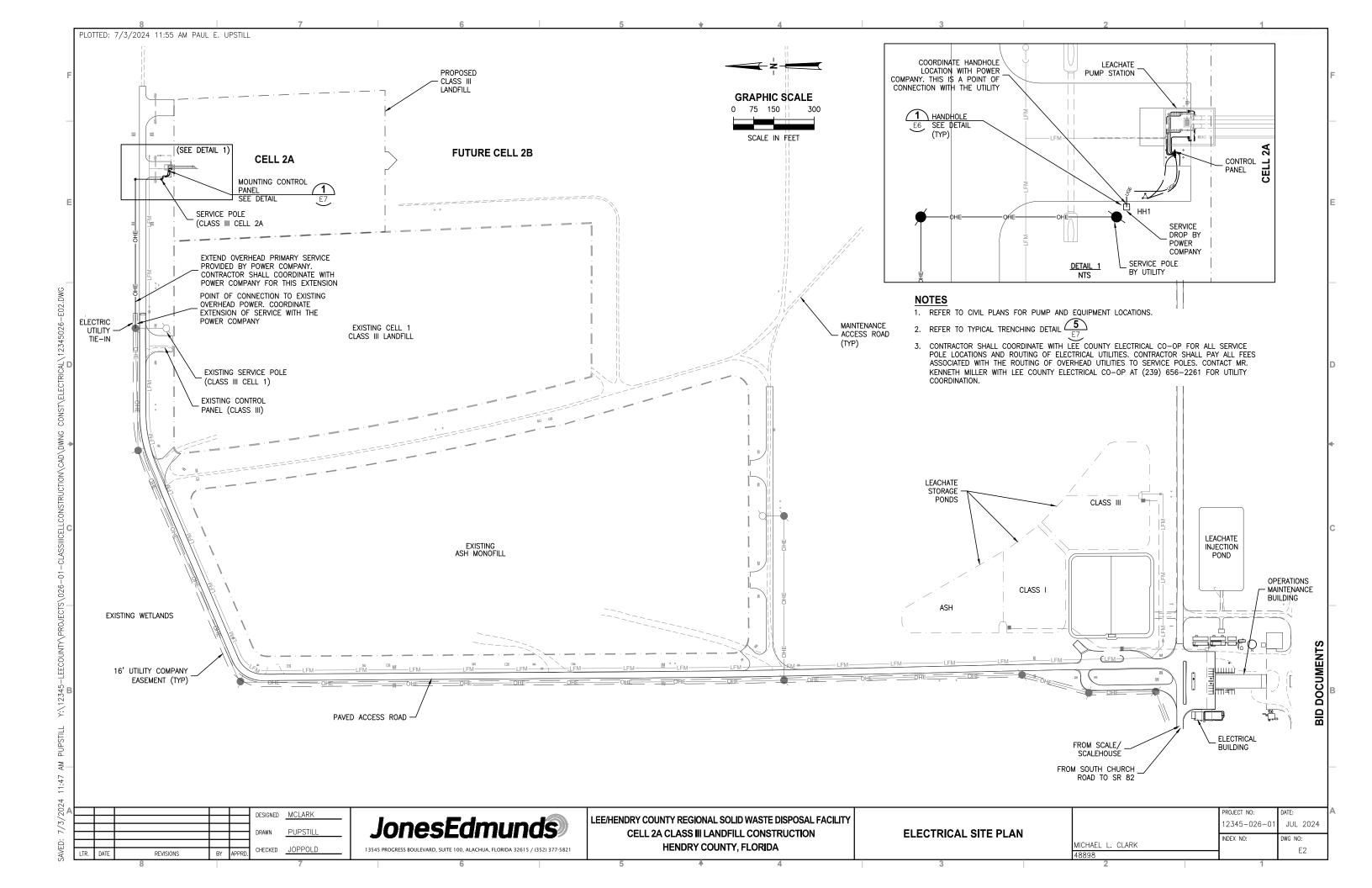


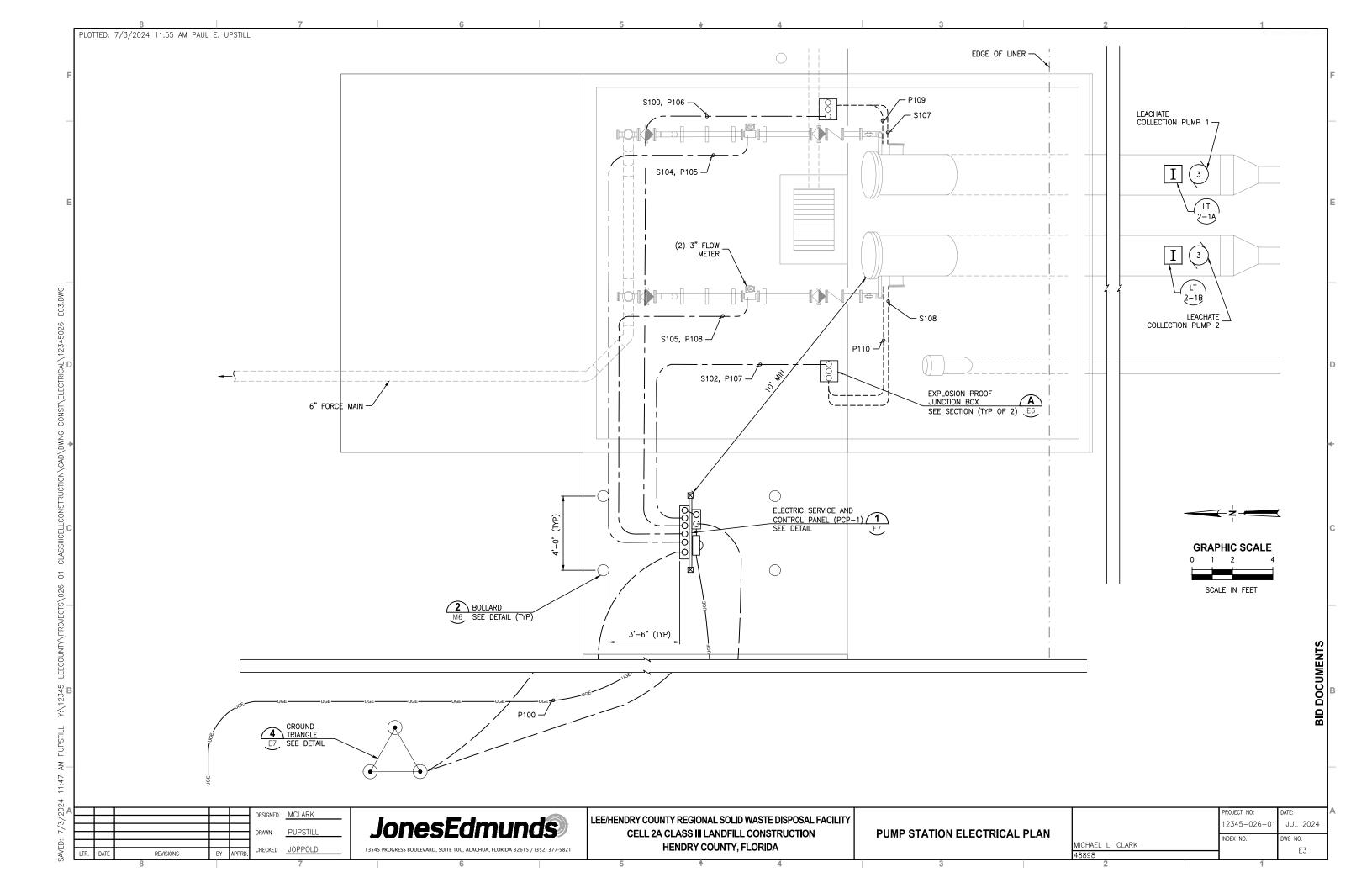


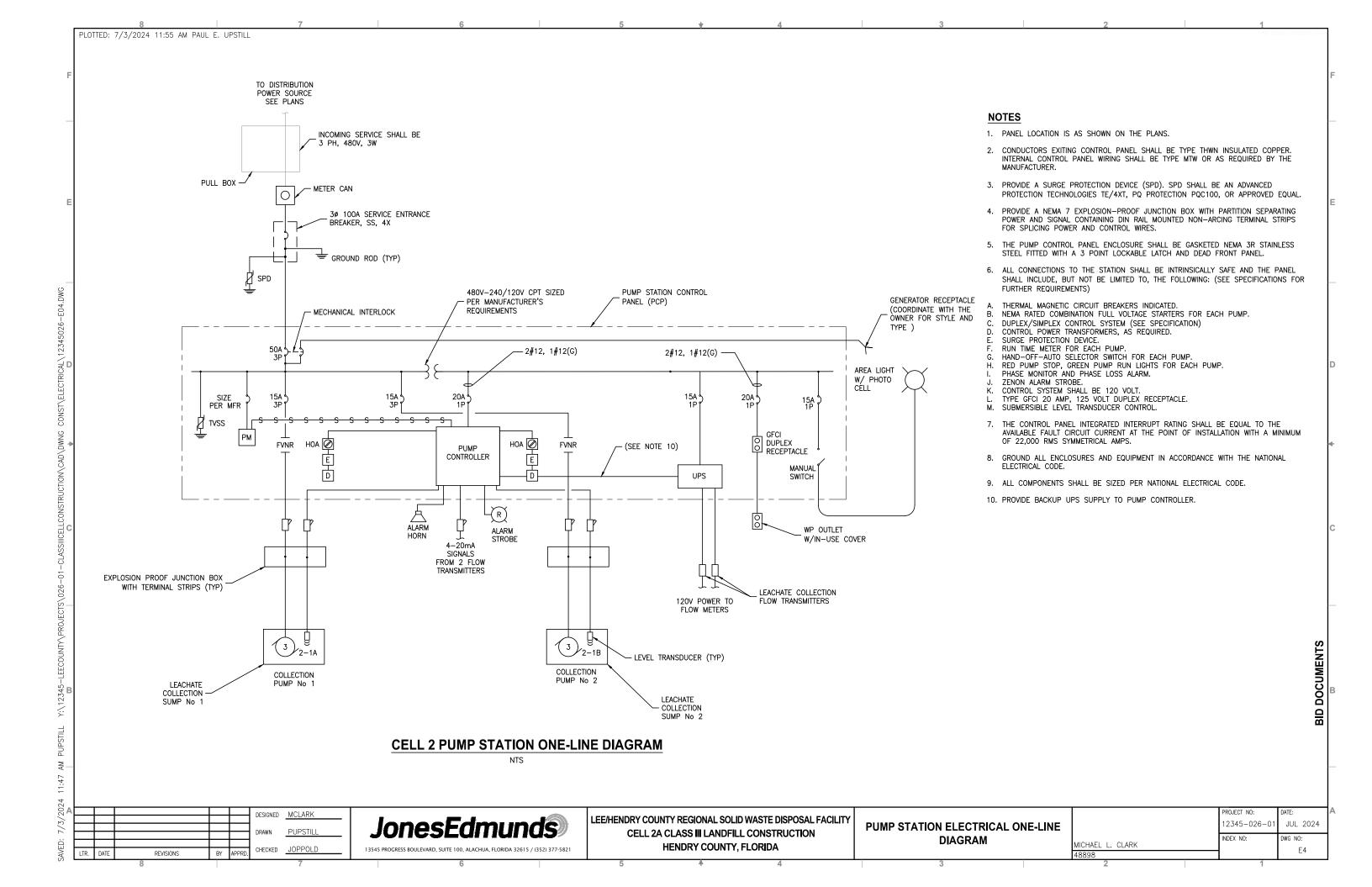




PLOTTED: 7/3/2024 11:55 AM PAUL E. UPSTILL **ELECTRICAL ABBREVIATIONS** Ø **ELECTRICAL NOTES** POWER POLE AFF ABOVE FINISHED FLOOR UNSHIELDED TWISTED PAIR AFG ABOVE FINISHED GRADE VFD VARIABLE FREQUENCY DRIVE BY DIV. 15, WIRED Ī THE CONTRACT DOCUMENTS MAY NOT REFLECT ALL EXISTING SERVICES OR SHOW THEM IN THEIR INSTRUMENTATION, TYPE INDICATED BY DIV. 16 AHU AIR HANDLING UNIT EXACT OR EXISTING LOCATIONS ABOVE OR BELOW GRADE. ANY SERVICE THAT IS INTERRUPTED BY AME **AMPERE** WITH s/s THE CONTRACTOR WITHIN OR OUTSIDE OF THE DESIGNATED LIMITS, ABOVE OR BELOW GRADE, SURGE PROTECTION DEVICE ASD ADJUSTABLE SPEED DRIVE OR VFD W/0 WITH OUT WHETHER SHOWN OR NOT SHOWN ON THE CONTRACT DOCUMENTS, SHALL BE IMMEDIATELY ATS AUTOMATIC TRANSFER SWITCH WEATHERPROOF REPAIRED BY AND AT THE EXPENSE OF THE CONTRACTOR AND TO NO ADDITIONAL COST TO THE ASPHALT RESTORATION BOTTOM FLEVATION OWNER. ALL REPAIRS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ACCEPTANCE OF THE WFIGHT WT BFG BELOW FINISH GRADI XMH **EXISTING MANHOLE** BUILDING MANAGEMENT SYSTEM BY DIV. 15. BMS ⇔o OR 😙 SAFETY SHOWER CONDUIT 2. SEE CIVIL AND MECHANICAL DRAWINGS FOR APPROXIMATE LOCATIONS OF UTILITIES. CONTRACTOR СB CIRCUIT BREAKER MOTOR OPERATED VALVE SHALL INCLUDE THE COST TO HAND DIG UTILITY TRENCHES FOR ALL UTILITY CONFLICTS FOR ALL CENTERLINE ELEVATION EXISTING UNDERGROUND UTILITIES IN ORDER TO INSTALL THE NEW UNDERGROUND UTILITIES. CEC CLAY ELECTRIC CO-OF CFWE CABLE FURNISHED WITH EQUIPMENT 3. ALL WORK SHALL BE INSTALLED PER LATEST ADOPTED NATIONAL ELECTRICAL CODE (NFPA 70). COLL COLLECTION PHYSICAL LEGEND ONE LINE DIAGRAM LEGEND COMM COMMUNICATION THESE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT ONLY AND CPT CONTROL POWER TRANSFORMER KEY NOTES, CIRCUIT REFERENCE MAY NOT INDICATE EVERY OFFSET, BEND, FITTING OR MODIFICATION OF MATERIALS REQUIRED FOR SYMB0L DESCRIPTION CONTACTOR COPPER E **EXISTING HANDHOLE (5)** DETEC DETECTION MOTOR, HORSEPOWER INDICATED THE EXACT EQUIPMENT SIZE, CONFIGURATION, MAINTENANCE SERVICE AREAS, AND ELECTRICAL DD DUSK TO DAWN POINTS OF CONNECTION TO EQUIPMENT VARY BY MANUFACTURER, THE COORDINATION OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE LAYOUT SHOWN ON THE DRAWINGS IS IN GROUND PULL BOX (NUMBER INDICATED), USED TC TIME CLOCK (24 HR, 15 MIN ON/OFF) DISTRIB DISTRIBUTION PB1 FOR ROUTING CONTROL CIRCUITS, UNLESS INDICATED DOWN BASED UPON THE REQUIREMENTS OF A PARTICULAR MANUFACTURER AS SELECTED BY THE TIME DELAY RELAY DPDT DOUBLE POLE, DOUBLE THROW ENGINEER AS THE BASIS OF DESIGN. THE CONTRACTOR SHALL SUBMIT EQUIPMENT COORDINATION ELECTRICAL CONTRACTOR ELAPSED TIME METER DRAWINGS INDICATING THE ACTUAL SIZE AND CONFIGURATION OF PROPOSED EQUIPMENT DRAWN HANDHOLE (NUMBER INDICATED), USED FOR ROUTING EXHAUST FAN TO SCALE INCLUDING THE MANUFACTURER'S RECOMMENDED MAINTENANCE SERVICE AREAS AND LOW VOLTAGE POWER CIRCUITS, UNLESS INDICATED Н MOTOR SPACE HEATER **EXST** FXISTING MECHANICAL AND ELECTRICAL INTERFACE REQUIREMENTS INCLUDING ELECTRICAL CONNECTIONS AT FINISHED FLOOR THE TIME OF EQUIPMENT SHOP DRAWING SUBMITTAL. М METER FNPT FEMALE NATIONAL PIPE THREAD JUNCTION BOX - WALL OR CEILING MOUNTED  $\bigcirc$ FLOW TRANSMITTER MC MOTOR CONTROLLER ALL EXTERNAL SWITCHES SHALL BE THE HEAVY DUTY TYPE. ALL ELECTRICAL EQUIPMENT GALV GALVANIZED РМ ENCLOSURES LOCATED OUTSIDE SHALL BE NEMA 4X-SS UNLESS NOTED OTHERWISE. CONDUIT UP (MULTIPLE OR SINGLE) GEN EMERGENCY GENERATOR 0 PHASE MONITOR RELAY GFCI GROUND FAULT INTERUPTER 7. ALL EMPTY CONDUITS SHALL CONTAIN 2001b PULL—LINE. ALL SPARE CONDUITS SHALL BE CAPPED ON EACH END AND LABELED WITH PERMANENT TAG TO IDENTIFY EACH END. PROVIDE A SINGLE Т TORQUE SWITCH GEL GROUND FALLET INTERRUPT CONDUIT DOWN (MULTIPLE OR SINGLE) GFP GROUND FAULT PROTECTION AS AMP METER SWITCH SPARE CONDUIT FOR EACH MOTOR FEED FROM THE PANEL TO THE MOTOR. GND GROUND CONDUIT CAP  $\bigcirc$ HAND-OFF AUTOMATIC AMP METER HOA CONDUIT ASSOCIATED WITH DEMOLISHED EQUIPMENT SHALL BE CUT OFF 18" BFG AND THE FITTING "L"-BACK, POUND CONDUIT ROUTED EXPOSED LB VS VOLT METER SWITCH REMAINDER ABANDONED IN PLACE. REMOVE ALL CONDUCTORS FROM DEMOLISHED AND LIGHT EMITTING DIODE LED ABANDONED CONDUIT LIGHT INTERFACE UNIT CONDUIT ROUTED UNDERGROUND (V)VOLT METER MC MULTI-CONDUCTOR CABLE, TYPE TC CONNECTIONS ARE PERMITTED IN PULL BOXES FOR THE SITE LIGHTING AND RECEPTACLE FUSE MULTIPLE CONDUIT ROUTED UNDERGROUND MCB MAIN CIRCUIT BREAKER CIRCUITS. CONNECTIONS FOR OTHER CIRCUITS SHALL NOT BE PERMITTED IN PULL BOXES OR MCC MOTOR CONTROL CENTER P PHOTOELECTRIC CONTROL HANDHOLES UNLESS APPROVED BY THE ENGINEER. CONNECTIONS WHERE PERMITTED SHALL BE MD MOTORIZED DAMPER OVERHEAD ELECTRIC LINE MADE USING MOISTURE-PROOF SPLICES, SCOTCHCAST OR EQUAL MDP MAIN DISTRIBUTION PANEL SELECTOR SWITCH MFG. MANUFACTURER UNDERGROUND ELECTRIC LINE HAND OFF AUTOMATIC (HOA) 10. ALL MOUNTING HARDWARE, ANCHORS, CHANNEL, PLATES, BRACKETS, FLOAT SUSPENSION CABLES, MIN MINIMUM, MINUTE ON-OFF(O-O)CABLE HANGERS AND ENCLOSURES SHALL BE 300 SERIES STAINLESS STEEL UNLESS NOTED ON OFF REMOTE (OOR) MNPT MALE NATIONAL PIPE THREAD -ugc-UNDERGROUND COMMUNICATION LINE VFD/BYPASS (V-B) MTS MANUAL TRANSFER SWITCH NFC NATIONAL FLECTRIC CODE OVERHEAD TELEPHONE LINE \_\_\_OHT 11. POWER CONDUITS SHALL BE ALUMINUM ABOVE GRADE AND SCH 40 PVC BELOW GRADE, CONDUIT NEMA NATIONAL ELECTRICAL MANUFACTURERS SURGE PROTECTION DEVICE ELBOWS BFG SHALL BE PVC COATED RGS. PVC CONDUIT SHALL BE SUNLIGHT RESISTANT, RATED ✓ MCC-3 CIRCUIT REFERENCE, SEE SCHEDULES (SPD) FOR 90°C CONDUCTORS, FLEXIBLE CONDUIT SHALL BE METALLIC SEALTITE OR APPROVED FOUND. NF NON FUSED CONDUIT IN UNDERGROUND CONCRETE ENCASED DUCT BANKS SHALL BE TYPE EB/PVC. NFPA NATIONAL FIRE PROTECTION ASSOCIATION NIC NOT IN CONTRACT -1,2,3 INDICATE THE PANEL CIRCUITS. WIRE SIZES CIRCUIT BREAKER (TRIP AMPS INDICATED) 12. BEFORE BEGINNING WORK, ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE OPERATED IN NOM NOMINAL OTHER THAN #12 AND CONDUIT OTHER THAN 3/4" C 3 POLE UNLESS OTHERWISE INDICATED DB-1.3.5 THE PRESENCE OF THE REPRESENTATIVES OF THE CONTRACTOR AND THE OWNER IN ORDER TO OHE OVERHEAD ELECTRIC SHALL BE CALLED OUT. PROVIDE GROUND IN ALL ESTABLISH THAT ALL SYSTEMS ARE IN PROPER WORKING ORDER AT THE START OF THE PROJECT. RUNS PER N.E.C. 2002 TABLE 250-95. DB INDICATES UPON COMPLETION OF THE ABOVE TEST, THE CONTRACTOR SHALL SUBMIT A DETAILED LISTING PR SWITCH THE PANEL. INDICATING ANY ITEMS NOTED WHICH ARE NOT IN FULLY OPERATIONAL CONDITION. THIS LISTING SHALL BE SIGNED BY ALL PARTIES PRESENT AT THE TEST. COMMENCEMENT OF WORK BEFORE PCP PUMP STATION CONTROL PANEL PVC POLYVINYL CHLORIDE DUPLEX RECEPTACLE  $\Rightarrow$ THE ABOVE SHALL CONSTITUTE ACCEPTANCE OF ALL SYSTEMS BY THE CONTRACTOR IN FULLY CURRENT TRANSFORMER RH RADIANT HEATER OPERATIONAL CONDITION. RGS RIGID GALVANIZED STEEL DISCONNECT SWITCH  $\Box$ RMS POWER TRANSFORMER  $\sim$ SCA SHORT CIRCUIT AMP RATING, NO. OF POLES, FUSE SIZE SCH **SCHEDULE** (NF = NON-FUSED)SDBC SECT SOFT DRAWN BARE COPPER SECTION FLECTRICAL GROUND SMC SOFT START MOTOR CONTROLLER COMBINATION MOTOR STARTER WITH CIRCUIT BREAKER SP SINGLE POLE FVNR = FULL VOLTAGE NON-REVERSING GROUND ROD WITH TEST WELL, 5/8"x20'-0" COPPER FVNR SPD SPDT SURGE PROTECTIVE DEVICE **⊪** RVAT = REDUCED VOLTAGE AUTOTRANSFORMER CLAD (UNLESS OTHERWISE INDICATED) SINGLE POLE, DOUBLE THROW VFD = VARIABLE FREQUENCY DRIVE SSRV SOFT START REDUCED VOLTAGE (C) STANDBY EMERGENCY GENERATOR COILED UP CONDUCTORS, NOT ELECTRICALLY STD STANDARD POWERED STFFL CPT TRANS TRANSFORMER CONTROL POWER TRANSFORMER 36 VFD VARIABLE FREQUENCY DRIVE TELEPHONE TERMINAL BOARD TIME CLOCK SMC ELECTRICAL ITEM TO BE DEMOLISHED SOFT START MOTOR CONTROLLER TOP ELEVATION TELE TELEPHONE  $\square$ TELECOMM TELECOMMUNICATIONS LIGHT FIXTURE LEVEL TRANSMITTER, LOOP NUMBER TWISTED SHIELDED PAIR (v-xc) POLE MOUNTED LIGHT FIXTURE FIT TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION (A= FIXTURE TYPE) FLOW INDICATOR TRANSMITTER, LOOP NUMBER UNDERGROUND UGE LINDERGROUND ELECTRIC UNO UNLESS NOTED OTHERWISE DESIGNED MCLARK ROJECT NO: LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY JonesEdmunds | 12345-026-0 JUL 2024 **ELECTRICAL LEGEND AND NOTES** DRAWN **CELL 2A CLASS III LANDFILL CONSTRUCTION** INDEX NO: DWG NO: MICHAEL L. CLARK HENDRY COUNTY, FLORIDA CHECKED JOPPOLD 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-582 E1 BY APPRD. REVISIONS 48898







PLOTTED: 7/3/2024 11:55 AM PAUL E. UPSTILL

INSTRUMENTATION AND CONTROL WIRING SCHEDULE								
CIRCUIT NUMBER	FROM	то	SIGNAL TYPE	CONDUCTORS			CONDUIT	ALL ADMINISTRATION
CIRCUIT NUMBER				ANALOG	DISCRETE	GROUND	CONDUIT	ALARM OR FUNCTION
	CELL 2							
P100	INCOMING SERVICE	SERVICE ENTRANCE DISCONNECT SWITCH	480V	-	3#3	#3	2"	THRU METER
P102	SERVICE ENTRANCE DISCONNECT SWITCH	PCP 1	480/277V	-	3#3	#3	2"	
P103	DISCONNECT SWITCH	GROUND	-	-	-	#4/0	1"	CONNECT TO GROUNDING SYSTEM
P104	PCP 1	AREA LIGHT	120V		2#12	#12	3/4"	PROVIDE MANUAL SWITCH AND PHOTOCELL
P105	UPS	LEACHATE COLLECTION PUMP 1 FLOW METER	120V		2#12	#12	3/4"	FLOW METER POWER
P106	PUMP CONTROL PANEL	EXPLOSION PROOF JUNCTION BOX	480VAC	-	3#10	#12	1"	LEACHATE COLLECTION PUMP #1 POWER *
P107	PUMP CONTROL PANEL	EXPLOSION PROOF JUNCTION BOX	480VAC	-	3#10	#12	1"	LEACHATE COLLECTION PUMP #2 POWER *
P108	UPS	LEACHATE COLLECTION PUMP 2 FLOW METER	120V		2#12	#12	3/4"	FLOW METER POWER
P109	EXPLOSION PROOF JUNCTION BOX	LEACHATE COLLECTION PUMP	480VAC	CFWE			1"	LEACHATE COLLECTION PUMP #1 *
P110	EXPLOSION PROOF JUNCTION BOX	LEACHATE COLLECTION PUMP	480VAC	CFWE			1"	LEACHATE COLLECTION PUMP #2 *
S100	PUMP CONTROL PANEL	EXPLOSION PROOF JUNCTION BOX COLL PUMP 1	4-20 mA	1#16-TSP	-	-	3/4"	SUMP LEVEL SIGNAL, PROVIDE 1-#16-TSP SPARE
S102	PUMP CONTROL PANEL	EXPLOSION PROOF JUNCTION BOX COLL PUMP 2	4-20 mA	1#16-TSP	-	-	3/4"	SUMP LEVEL SIGNAL, PROVIDE 1-#16-TSP SPARE
S103								NOT USED
S104	FLOW METER TRANSMITTER	FLOW METER COLL PUMP 1	4-20 mA	1#16-TSP	-	-	3/4"	FLOW METER SIGNAL, PROVIDE 1-#16-TSP SPARE
S105	FLOW METER TRANSMITTER	FLOW METER COLL PUMP 2	4-20 mA	1#16-TSP	-	-	3/4"	FLOW METER SIGNAL, PROVIDE 1-#16-TSP SPARE
S106								NOT USED
S107	EXPLOSION PROOF JUNCTION BOX	COLLECTION PUMP 1 LEVEL PROBE	4-20 mA	CFWE	-	-	1"	SUMP LEVEL TRANSMITTER SIGNAL
S108	EXPLOSION PROOF JUNCTION BOX	COLLECTION PUMP 2 LEVEL PROBE	4-20 mA	CFWE	-	-	1"	SUMP LEVEL TRANSMITTER SIGNAL

PUPSTILL

NOTE:
\*PUMPS REQUIRE ADDITIONAL SUPPORT
CABLES (TEMP, HEATER, ETC). COORDINATE
AND PROVIDE CONDUCTORS AND CONDUIT
AS REQUIRED.

DESIGNED MCLARK DRAWN CHECKED JOPPOLD REVISIONS

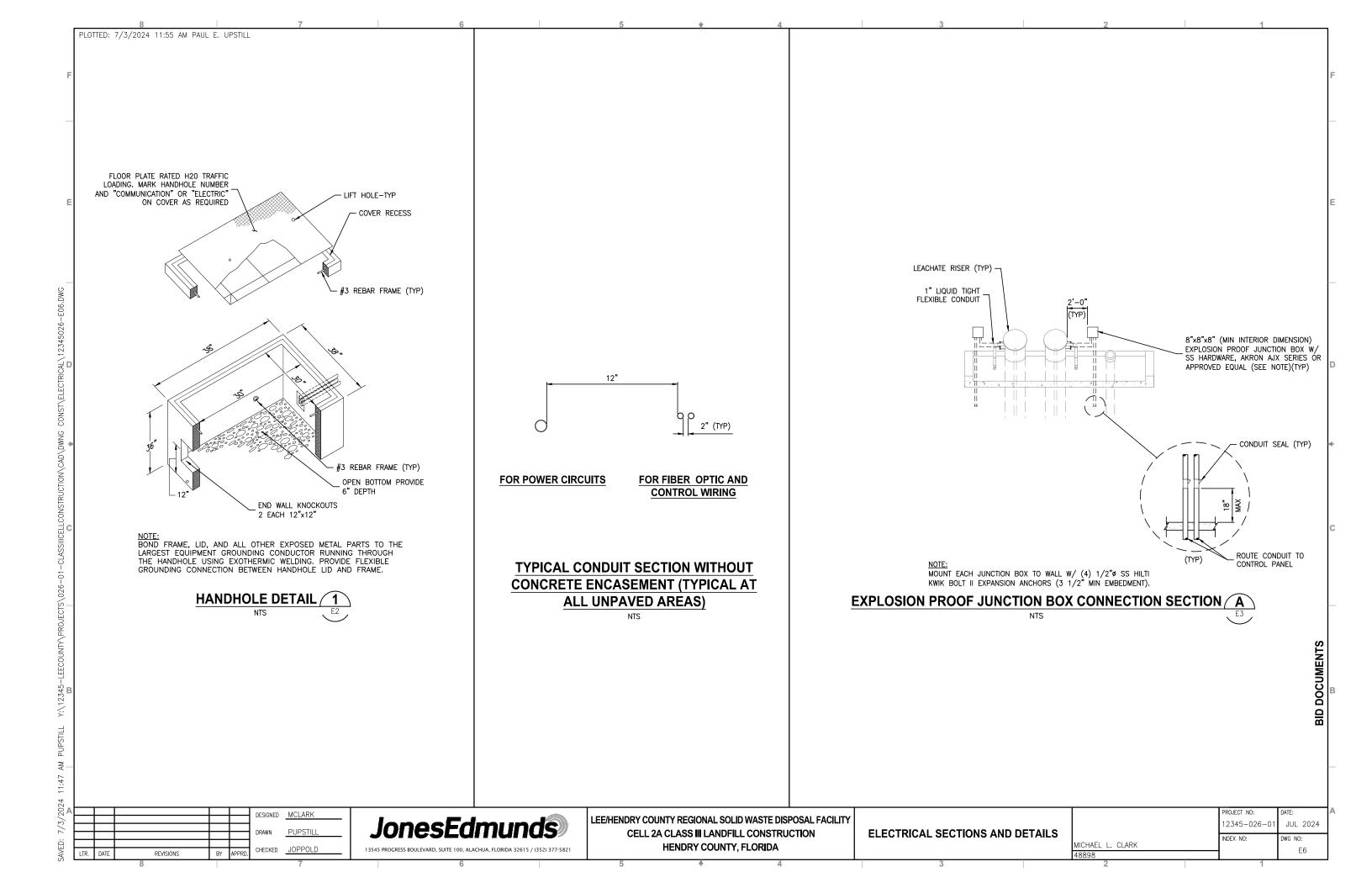
**JonesEdmunds** 

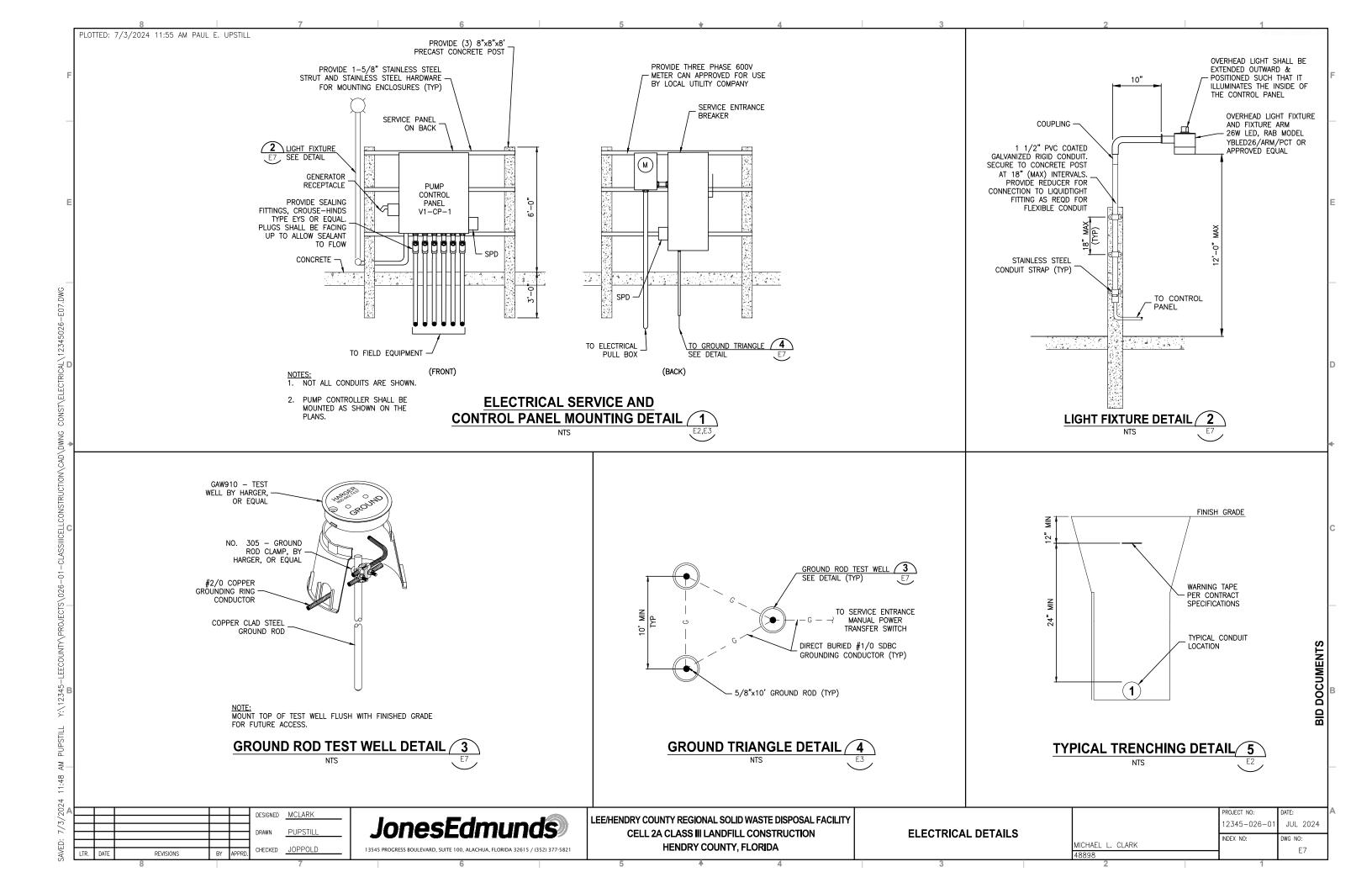
LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY CELL 2A CLASS III LANDFILL CONSTRUCTION HENDRY COUNTY, FLORIDA

**ELECTRICAL WIRING SCHEDULE** 

PROJECT NO: 12345-026-01 JUL 2024 INDEX NO: MICHAEL L. CLARK

DWG NO: E5





- THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF, AN EROSION CONTROL PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE, AND LOCAL LAWS. REFER TO THESE EROSION AND SEDIMENT STABILIZATION PRACTICES FOR THE CONTROLS THAT MAY BE IMPLEMENTED.
- 2. THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED HEREIN AND THOSE MEASURES SHOWN IN THE PLANS. IN ADDITION, THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED FOR COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL APPLY FOR AND COMPLY WITH A FLORIDA NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL OBTAIN WATER MANAGEMENT DISTRICT APPROVAL FOR DEWATERING PER FAC
- 3. THE CONTRACTOR WILL BE RESPONSIBLE FOR APPLYING FOR AND PAYING FOR THE PERMIT FEE FOR THE NOTICE OF INTENT (NOI) AND THE NOTICE OF TERMINATION (NOT) FORMS.
- TIMING OF CONTROLS/MEASURES. AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND SYNTHETIC BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASINS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS AND THE EARTH BERM/SWALES REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLAN.
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND SEDIMENT CONTROL REGULATIONS AND TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.
- 6. THE CONTRACTOR WILL PROVIDE THE OWNER A COPY OF THE NPDES PERMIT AND THE SWPPP.

#### EROSION AND SEDIMENT CONTROL - STABILIZATION PRACTICES

- 1. LOCATION OF STAKED SILT FENCE. STAKED SILT FENCE SHALL BE PLACED ALONG THE BOUNDARY OF FILL SLOPES, ALONG THE LIMITS OF CONSTRUCTION, AND AROUND ALL PROPOSED INLETS AND STRUCTURES. SILT FENCE SHALL BE USED AROUND ALL STOCKPILED MATERIAL.
- 2. LOCATION OF FLOATING TURBIDITY BARRIERS. FLOATING TURBIDITY BARRIERS SHALL BE PLACED IN PERMANENT BODIES OF WATER
- 3. OFF-SITE VEHICLE TRACKING. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY. AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE DAMPENED WITH WATER AS REQUIRED FOR DUST CONTROL.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES AFTER THE NOTICE OF TERMINATION. MAINTENANCE AND REPAIR REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE PROJECT COST.
- DISTURBED, GRADED OR REGRADED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE, OR WITHIN 7 DAYS IF SUCH AREAS ARE TO REMAIN IDLE FOR MORE THAN 7 DAYS.
- 6. SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
  - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
  - B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2.0 ACRES.
  - C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS
  - D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO ENSURE AGAINST WASHOUT.
- 7. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING
  - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT
  - B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2.0 ACRES.
- 8. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE
- 9. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT—FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL SPREADER IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
- 10. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
- 11. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, ERODIBLE SOIL EXPOSED BY CLEARING GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 20 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
- 12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
- 13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

#### EROSION AND SEDIMENT CONTROL - WASTE AND MATERIAL CONTROLS

- 1. WASTE MATERIALS: ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN ACCORDANCE WITH ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. DUMPSTERS WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED AS DIRECTED BY THE OWNER. NOTICES STATING WASTE DISPOSAL PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
- 2. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY—TO—DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE
- 3. SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.
- 4. PAVED AREAS ADJACENT TO ALL CONSTRUCTION ACCESS POINTS SHALL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.
- 5. SPILL PREVENTION: THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.
  - A. GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.
  - i. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
  - ii. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
  - iii. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
  - iv. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
  - v. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER
  - vi. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED
  - vii. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL
  - B. HAZARDOUS MATERIALS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
  - i. HAZARDOUS MATERIALS AND/OR TOXIC SUBSTANCES SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO THE EPA'S STANDARD PRACTICES, THE MANUFACTURER'S RECOMMENDATION OR IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
  - ii. THE CONTRACTOR SHALL MAINTAIN COPIES OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE ON THE PROJECT. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE ON THE PROJECT AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL.
  - iii. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS.
  - iv. MATERIALS WILL BE STORED IN ACCORDANCE WITH LOCAL CODES.
  - v. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED AND AVAILABLE ON SITE.
  - C. PRODUCT SPECIFIC PRACTICES: THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:
  - PETROLEUM AND LUBRICANT PRODUCTS. ALL ONSITE VEHICLES AND EQUIPMENT (I.E. DEWATERING PUMPS) WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. FLUID PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. CONTAINMENT BERMS WILL WE CONSTRUCTED AROUND ALL FUEL STORAGE TANKS USED FOR CONSTRUCTION. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
  - ii. FERTILIZERS. FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
  - iii. PAINTS. ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
  - iv. CONCRETE TRUCKS. CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES, PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.

#### EROSION AND SEDIMENT CONTROL - SPILL CONTROLS

- 1. SPILL CONTROL PRACTICES: IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
  - A. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION.
- 2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, OIL BLANKETS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, BY THE
- 3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- 4. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED IMMEDIATELY TO OWNER AND ENGINEER.
- 5. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL OF THE SPILL WHAT CALISED IT AND THE CLEANING MEASURES WILL ALSO BE INCLUDED. IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- 6. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE SHALL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL, WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS SHALL EACH BÉCOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP, THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

DESIGNED MMORS CHECKED TMCKNIGHT REVISIONS

JonesEdmunds 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-582

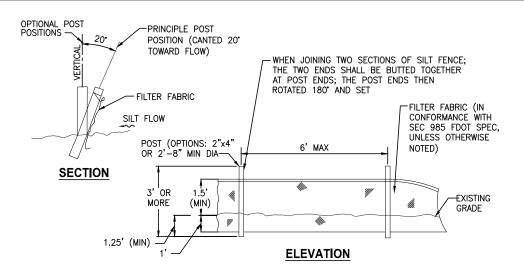
LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY **CELL 2A CLASS III LANDFILL CONSTRUCTION** HENDRY COUNTY, FLORIDA

**EROSION AND SEDIMENT CONTROL** REQUIREMENT

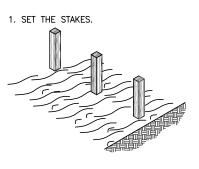
12345-026-0 JUL 2024 DWG NO: TORIN S MCKNIGH EC1

P.E. 69187

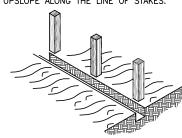
#### STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL



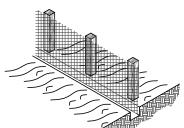
#### **TYPICAL SILT FENCE DETAIL**



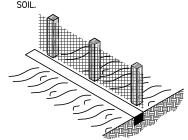
2. EXCAVATE A 4" WIDE x 8" DEEP TRENCH UPSLOPE ALONG THE LINE OF STAKES.



3. STAPLE SILT FENCE TO STAKES AND EXTEND

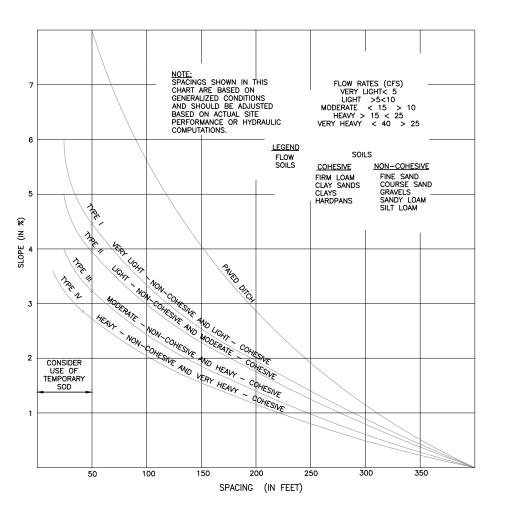


4. BACKFILL AND COMPACT THE EXCAVATED



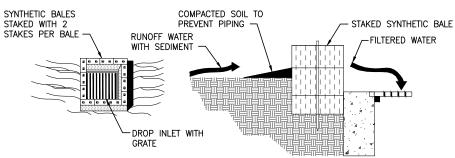
 $rac{ ext{NOTES:}}{ ext{1.}}$  no stakes shall be installed in locations with underlying liner systems.

NTS



#### **SPACING RECOMMENDATION** FOR SILT FENCES & BALES

NTS



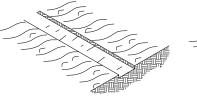
#### SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 5.3 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLÈTS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

#### DROP INLET SEDIMENT FILTER

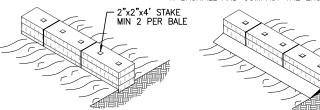
1. EXCAVATE THE TRENCH.

2. PLACE AND WEDGE SYNTHETIC BALES TOGETHER.



3. STAKE SYNTHETIC BALES.

4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



#### CONSTRUCTION OF A SYNTHETIC BALE BARRIER

FLOW PLAN POINTS A SHOULD BE HIGHER THAN B **ELEVATION** 

- FILTER BARRIERS SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET AND WIDTH OF A BALE TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STACKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- 2. FILTER BARRIERS IN EXISTING CONCRETE DITCH SHALL BE STABILIZED WITH BALES WITHOUT TRENCHING

#### PROPER PLACEMENT OF A FILTER **BARRIER IN A DRAINAGE WAY**

	APPROVED BY	PROJECT NO:	DATE:
EROSION CONTROL DETAILS		12345-026-01	JUL 2024
EROSION CONTROL DETAILS	TOBIN S. MCKNIGHT	INDEX NO:	DWG NO:
	P.E. 69187	1	EC2

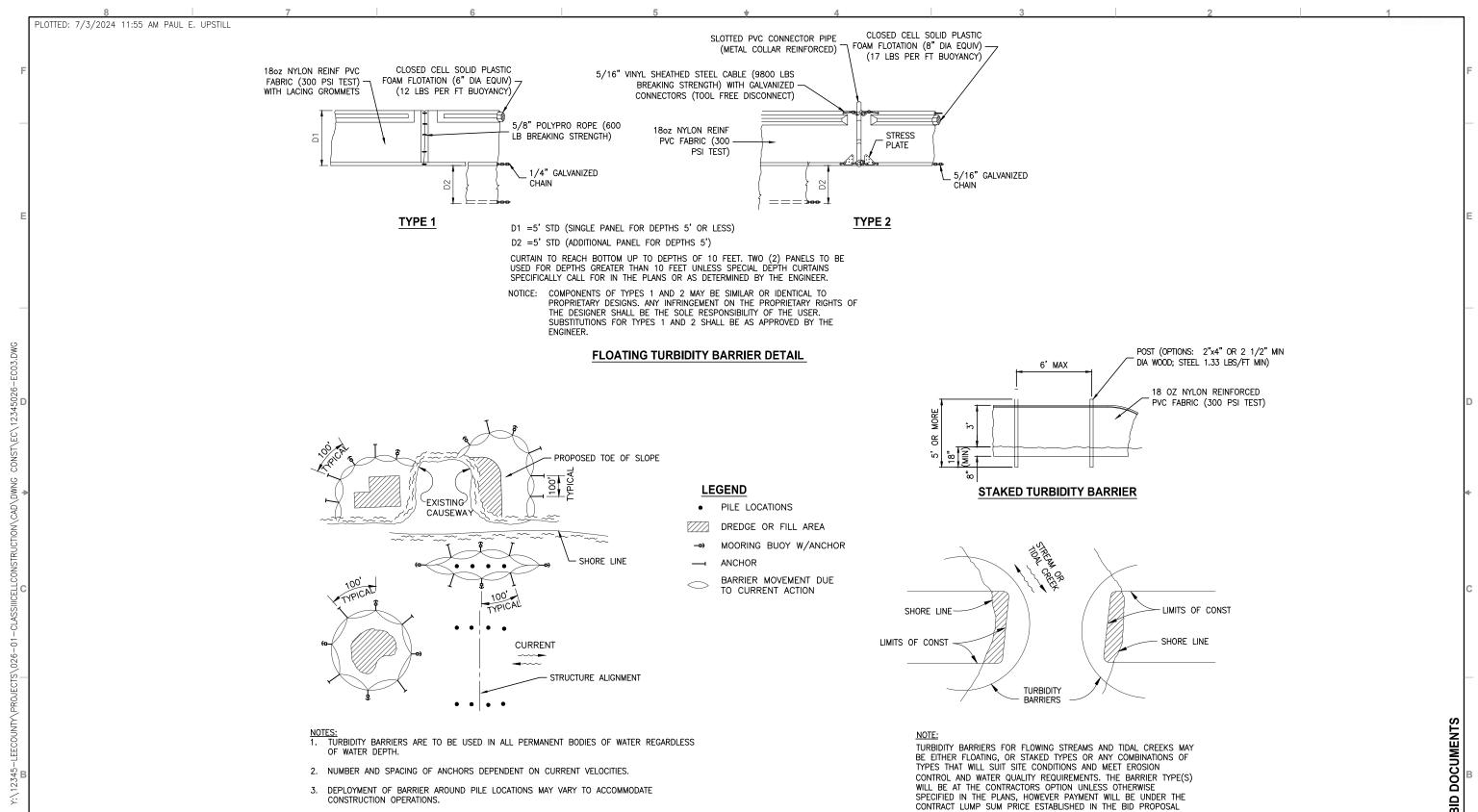
#### SILT FENCE CONSTRUCTION DETAIL

DESIGNED MMORSE CHECKED TMCKNIGHT REVISIONS

JonesEdmunds) 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821 LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY **CELL 2A CLASS III LANDFILL CONSTRUCTION** HENDRY COUNTY, FLORIDA

DOCUMENTS

BID



- 4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
- 5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

#### **TURBIDITY BARRIER APPLICATIONS TURBIDITY BARRIERS**

DESIGNED MMORSE CHECKED TMCKNIGHT REVISIONS

JonesEdmunds)

LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY **CELL 2A CLASS III LANDFILL CONSTRUCTION** HENDRY COUNTY, FLORIDA

**EROSION CONTROL DETAILS** 

FOR EROSION & SEDIMENT CONTROL POSTS IN STAKED TURBIDITY

BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS

12345-026-0 JUL 2024 DWG NO: FORIN S MCKNIGHT EC3

OTHERWISE DIRECTED BY THE ENGINEER.

P.E. 69187