

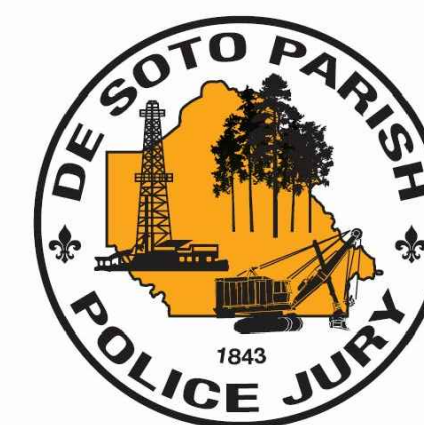
# MUNDY LANDFILL DESOTO PARISH, LOUISIANA

101 Franklin Street  
Mansfield, Louisiana 71052  
(318) 872-0738

## *Construction of Waste Disposal Cell IX*

# PROPOSED CONSTRUCTION PLANS AND DETAILS

**PREPARED FOR**



**DeSoto Parish Police Jury**  
101 Franklin Street  
Mansfield, Louisiana 71052  
(318) 872-0738

**PREPARED BY**

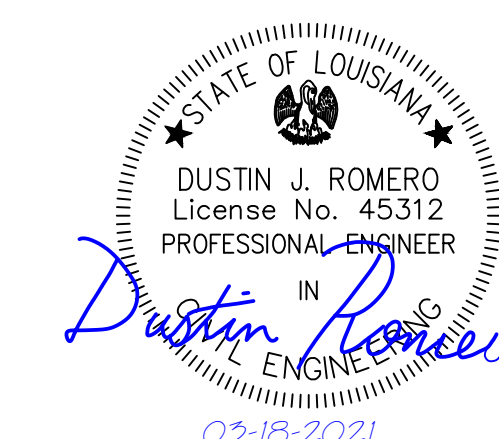
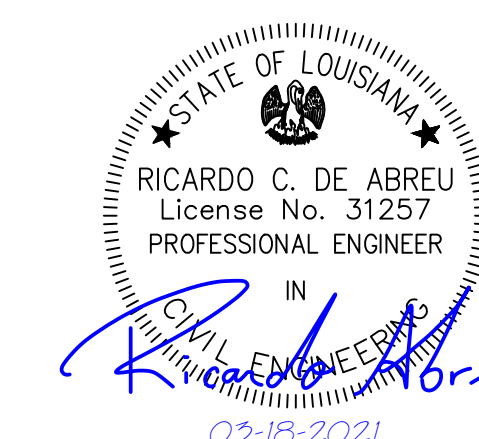


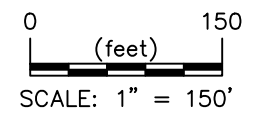
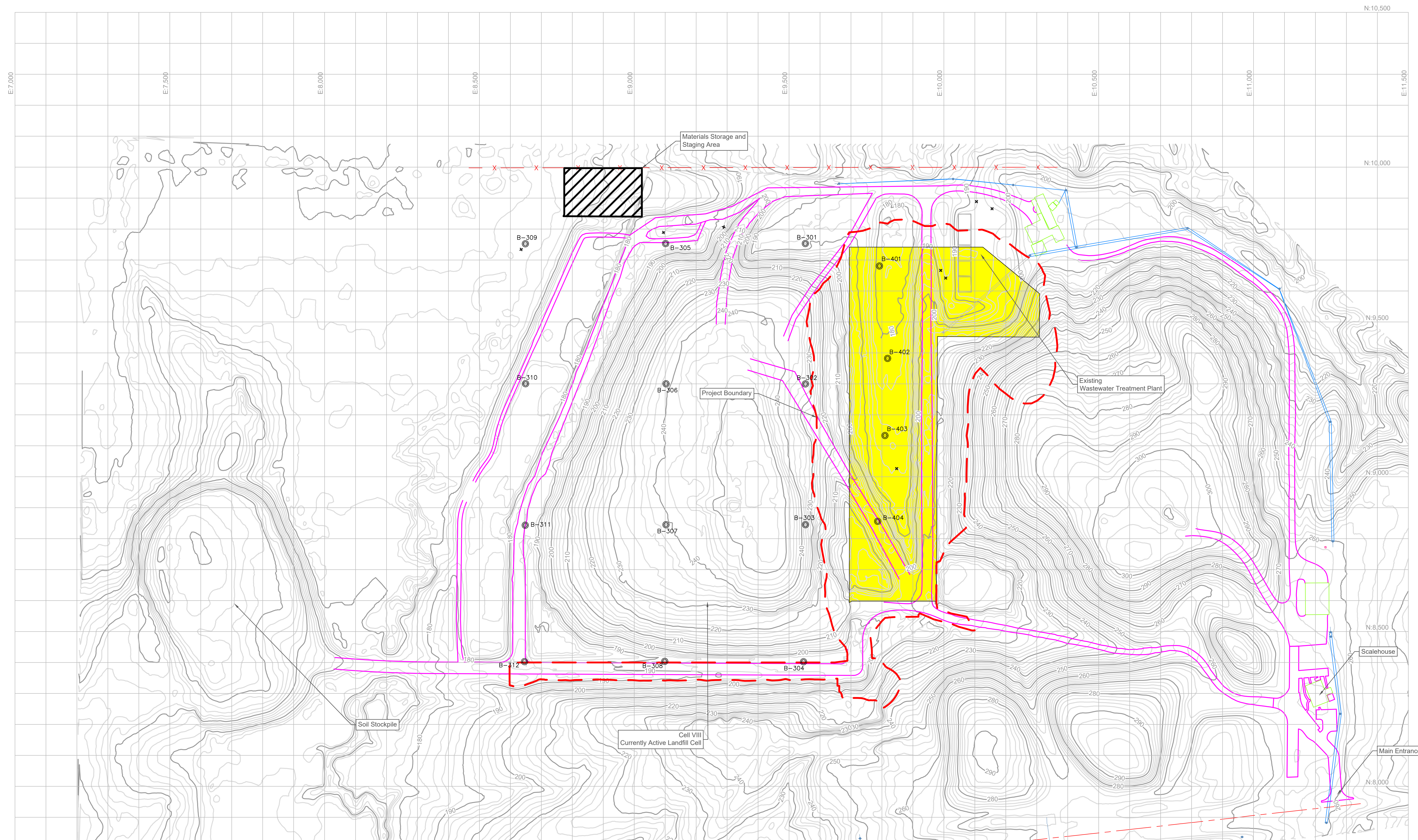
**Fourrier & de Abreu Engineers, LLC**  
10995 Coursey Blvd.  
Baton Rouge, Louisiana 70816  
(225) 677-7950  
contact@fdaengineers.com

**March 18, 2021**

Drawing No.	Sheet Title	Revision No.	Date
1	Proposed Cell IX - Project Location Plan	0	3/18/2021
2	Proposed Cell IX - Existing Conditions and Site Improvements Plan	0	3/18/2021
3	Proposed Cell IX - Subgrade Plan	0	3/18/2021
4	Proposed Cell IX - Cross Section Location Map	0	3/18/2021
5	Proposed Cell IX - Cross Sections	0	3/18/2021
6	Proposed Cell IX - Cross Sections II	0	3/18/2021
7	Proposed Cell IX - Clay Liner Plan	0	3/18/2021
8	Proposed Cell IX - Stormwater Diversion Plan	0	3/18/2021
9	Proposed Cell IX - Leachate Collection Line Plan	0	3/18/2021
10	Proposed Cell IX - Sand Drainage Layer Plan	0	3/18/2021
11	Proposed Cell IX - General Details	0	3/18/2021
12	Proposed Cell IX - Leachate Riser Vertical Expansion Plan	0	3/18/2021
13	Proposed Cell IX - Leachate Cleanout Vertical Expansion Plan	0	3/18/2021
14	Proposed Cell IX - Drainage Ditch Plan	0	3/18/2021
15	Proposed Cell IX - Erosion Control Plan	0	3/18/2021

**APPROVED BY**





**LEGEND**

	EXISTING TOPOGRAPHIC CONTOUR
	EXISTING EDGE OF ACCESS ROAD
	PROJECT BOUNDARY
	PROPOSED CELL IX
	EXISTING BORING

**NOTES:**  
 1. Horizontal coordinates are based on facility coordinates. Elevations are based on facility datum.  
 2. This drawing is schematic only and intends to show the approximate location of the Cell IX and drainage ditch construction area. This drawing shall not be used for estimating distances, areas, volumes, or any quantities.

**REFERENCES:**  
 1. Aerial survey performed by Mehr and Associates, Inc. on November 2, 2019.  
 2. Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.

STATE OF LOUISIANA  
 RICARDO C. DE ABREU  
 License No. 31257  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Ricardo C. de Abreu*  
 03-18-2021

STATE OF LOUISIANA  
 DUSTIN J. ROMERO  
 License No. 45312  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Dustin J. Romero*  
 03-18-2021

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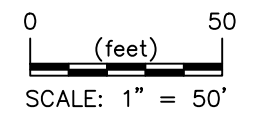
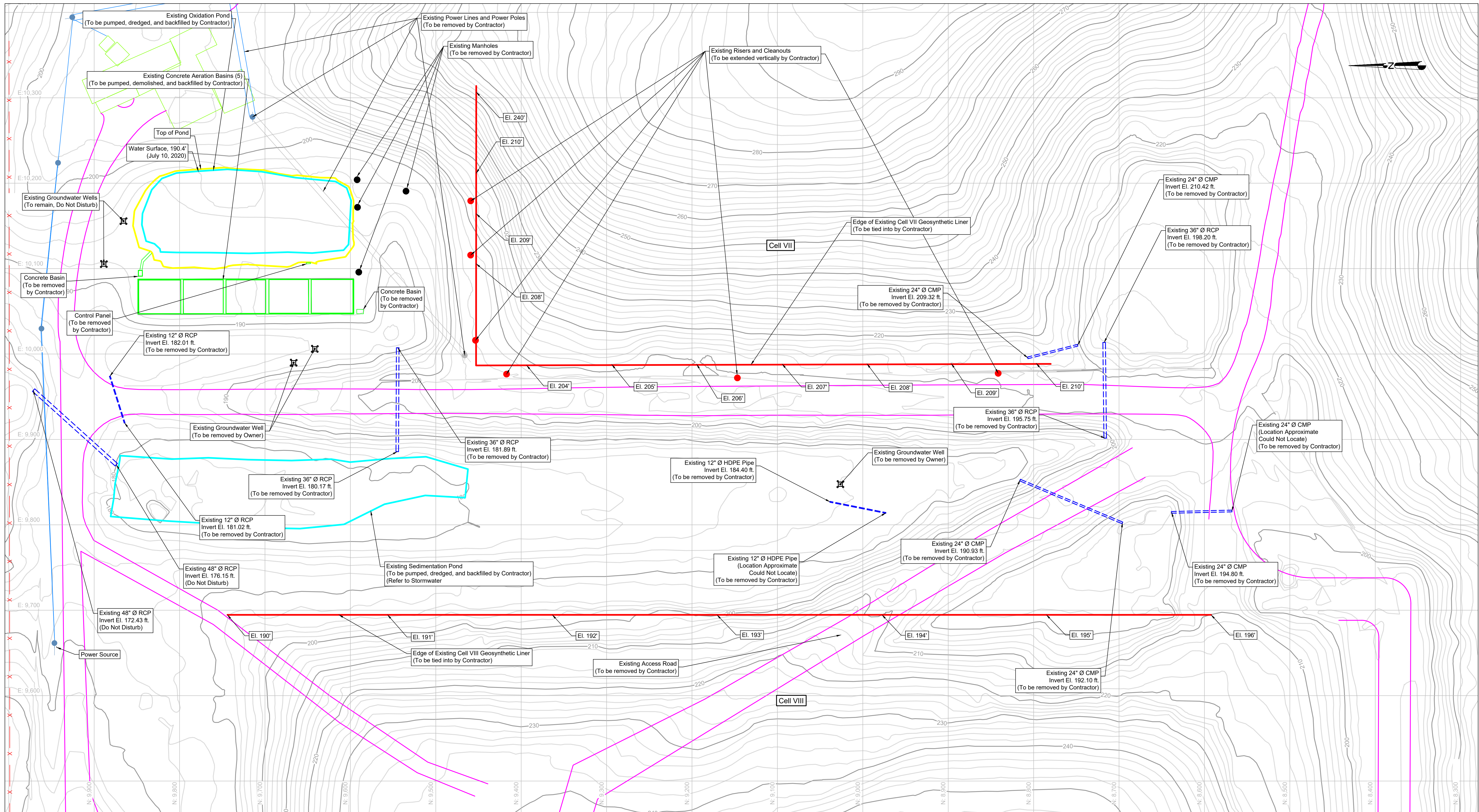
for  
**DESOTO PARISH POLICE JURY**  
 MANSFIELD, LOUISIANA

Fourier & de Abreu  
 Engineers, L.L.C.  
 Environmental and Civil Engineering  
 Phone: 225-677-7950  
 contact@fdaengineers.com  
 www.fdaengineers.com

10995 Coursey Blvd.  
 BATON ROUGE, LA 70816

**PROPOSED CELL IX**  
**PROJECT LOCATION PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 1
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**LEGEND**

	EXISTING TOPOGRAPHIC CONTOUR
	EXISTING EDGE OF ACCESS ROAD
	EXISTING GEOSYNTHETIC LINER (TO BE TIED INTO BY CONTRACTOR)
	EXISTING CULVERT
	EXISTING MONITORING WELL

**NOTES:**

- Horizontal coordinates are based on facility coordinates. Elevations are based on facility datum.
- This drawing is schematic only and intends to show the approximate location of the proposed site improvements. This drawing shall not be used for estimating distances, areas, volumes, or any quantities.
- CMP: Corrugated Metal Pipe  
RCP: Reinforced concrete pipe  
HDPE: High-density Polyethylene

**REFERENCES:**

- Aerial survey performed by Mohr and Associates, Inc. on November 2, 2019.
- Topographic survey performed by Clack Land Surveying, L.L.C. on July 10, 2020.
- Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.

STATE OF LOUISIANA  
 RICARDO C. DE ABREU  
 License No. 31257  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Ricardo C. de Abreu*  
 03-18-2021

STATE OF LOUISIANA  
 DUSTIN J. ROMERO  
 License No. 45312  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Dustin J. Romero*  
 03-18-2021

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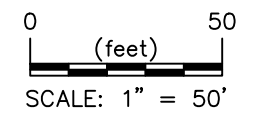
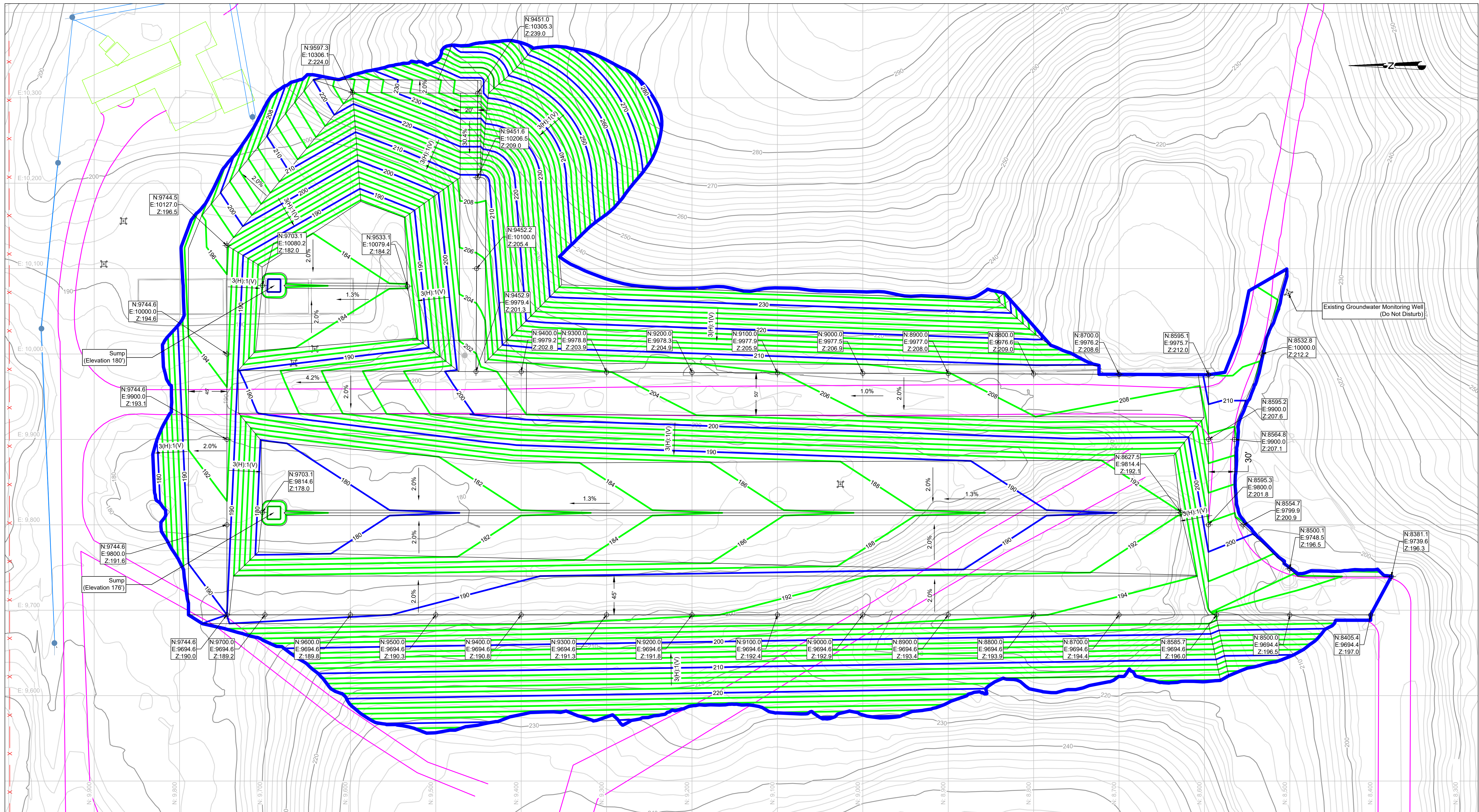
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 MANSFIELD, LOUISIANA

**Fourrier & de Abreu**  
 Engineers, L.L.C.  
 Environmental and Civil Engineering  
 Phone: 225-677-7950  
 contact@fdaengineers.com  
 www.fdaengineers.com

10995 Coursey Blvd.  
 BATON ROUGE, LA 70816

**PROPOSED CELL IX**  
**EXISTING CONDITIONS AND SITE IMPROVEMENTS PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 2
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**NOTES:**  
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 2. Elevation of points along the tie-in with existing liners vary from actual elevations found in the field.  
 3. Contractor shall coordinate construction activities with the Owner in order to facilitate day-to-day operations of the landfill.

**REFERENCES:**  
 1. Aerial survey performed by Mohr and Associates, Inc. on November 2, 2019.  
 2. Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.

**LEGEND**

	EXISTING TOPOGRAPHIC CONTOUR
	EXISTING EDGE OF ACCESS ROAD
	PROPOSED SUBGRADE CONTOUR

STATE OF LOUISIANA  
 RICARDO C. DE ABREU  
 License No. 31257  
 PROFESSIONAL ENGINEER  
*Ricardo C. de Abreu*  
 03-18-2021

STATE OF LOUISIANA  
 DUSTIN J. ROMERO  
 License No. 45312  
 PROFESSIONAL ENGINEER  
*Dustin J. Romero*  
 03-18-2021

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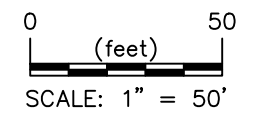
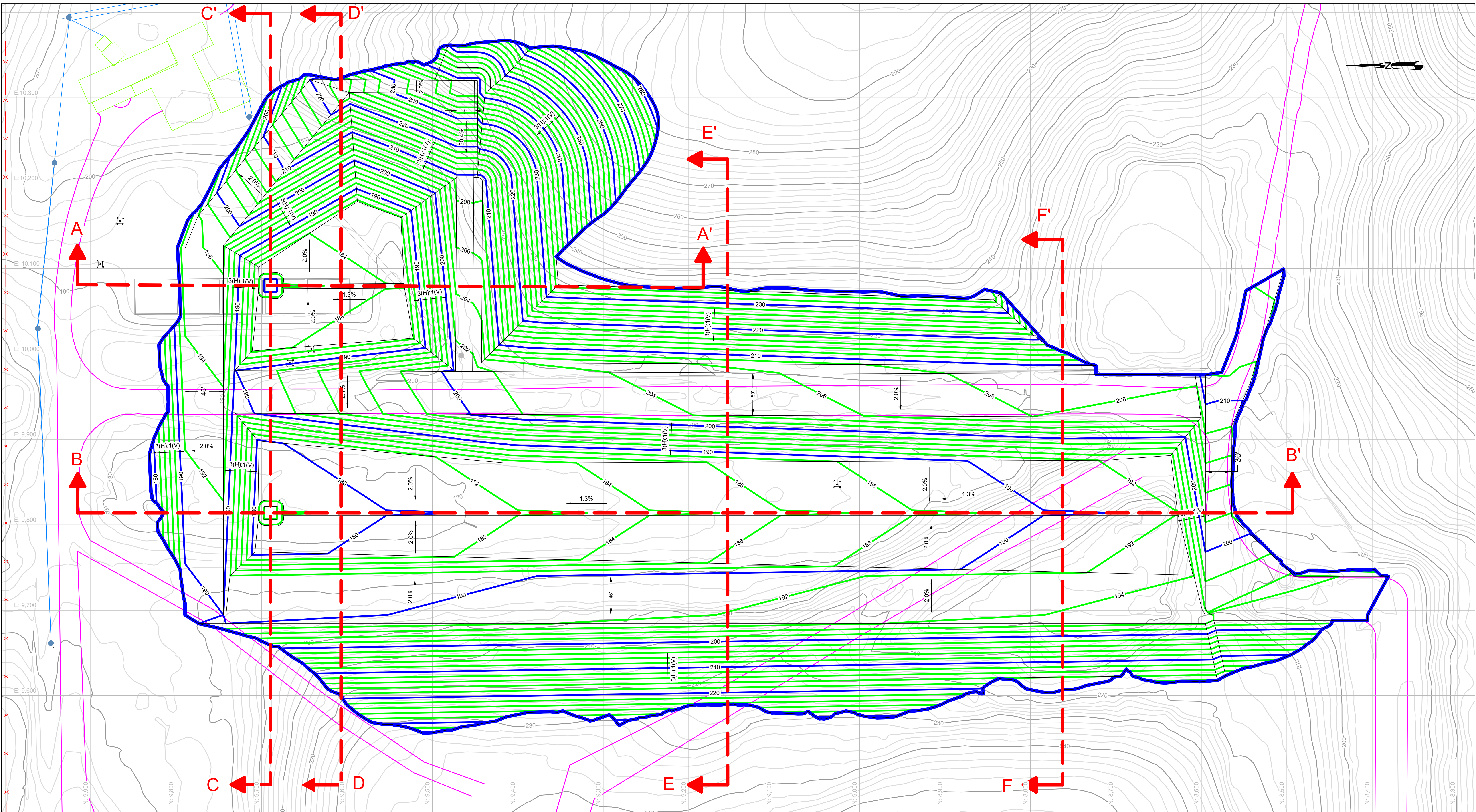
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 MANSFIELD, LOUISIANA

**Fourier & de Abreu Engineers, L.L.C.**  
 Environmental and Civil Engineering  
 Phone: 225-677-7950  
 contact@fdaengineers.com  
 www.fdaengineers.com

10995 Coursey Blvd.  
 BATON ROUGE, LA 70816

**PROPOSED CELL IX**  
**SUBGRADE PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 3
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- LEGEND**
- EXISTING TOPOGRAPHIC CONTOUR
  - EXISTING EDGE OF ACCESS ROAD
  - PROPOSED SUBGRADE CONTOUR
  - CROSS SECTION LINE

**NOTES:**  
 1. This drawing shall only be used for identification of the location of Cross Sections A-A' through F-F'.  
 2. Cross sections are shown on Drawing No. 5 and Drawing No. 6.

**REFERENCES:**  
 1. Aerial survey performed by Mehr and Associates, Inc. on November 2, 2019.  
 2. Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.

STATE OF LOUISIANA  
 RICARDO C. DE ABREU  
 License No. 31257  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Ricardo C. de Abreu*  
 03-18-2021

STATE OF LOUISIANA  
 DUSTIN J. ROMERO  
 License No. 45312  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Dustin J. Romero*  
 03-18-2021

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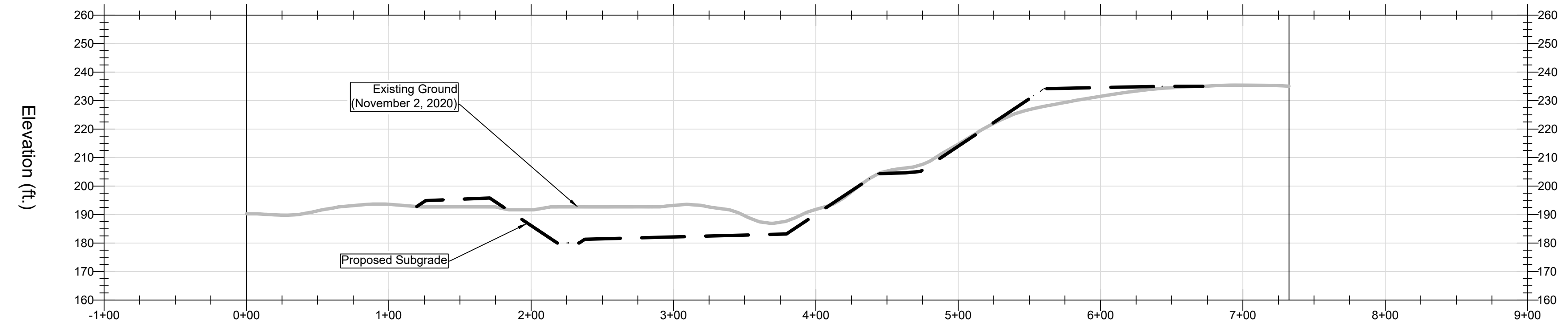
**Fourier & de Abreu**  
 Engineers, L.L.C.  
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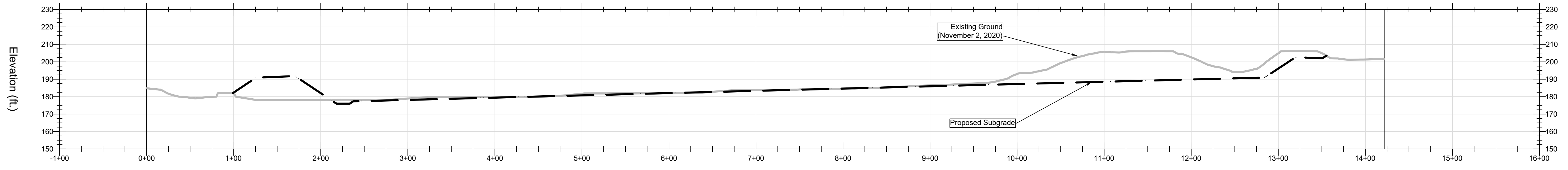
**PROPOSED CELL IX**  
**CROSS SECTION LOCATION PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 4
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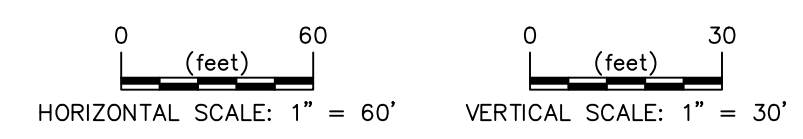
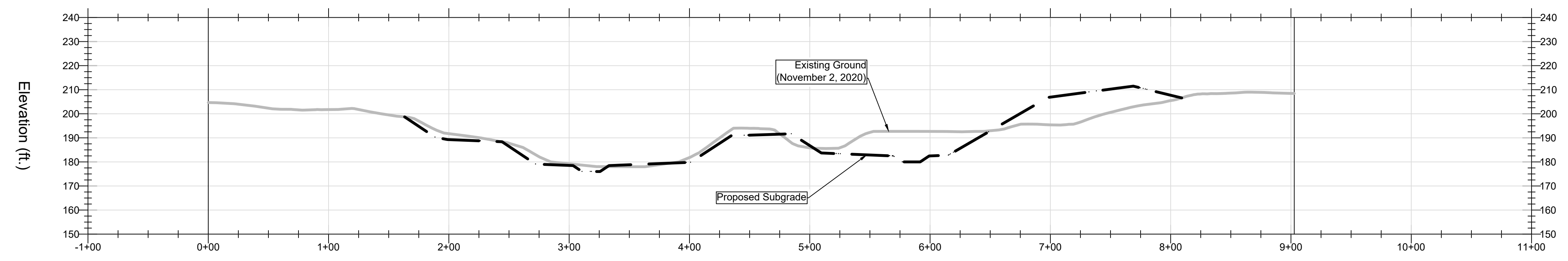
Cross Section A-A'



Cross Section B-B'



Cross Section C-C'



STATE OF LOUISIANA  
 RICARDO C. DE ABREU  
 License No. 31257  
 PROFESSIONAL ENGINEER  
*Ricardo De Abreu*  
 03-18-2021

STATE OF LOUISIANA  
 DUSTIN J. ROMERO  
 License No. 45312  
 PROFESSIONAL ENGINEER  
*Dustin Romero*  
 03-18-2021

MUNDY LANDFILL  
 DESOTO PARISH, LOUISIANA

for  
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 MANSFIELD, LOUISIANA

Fourrier & de Abreu  
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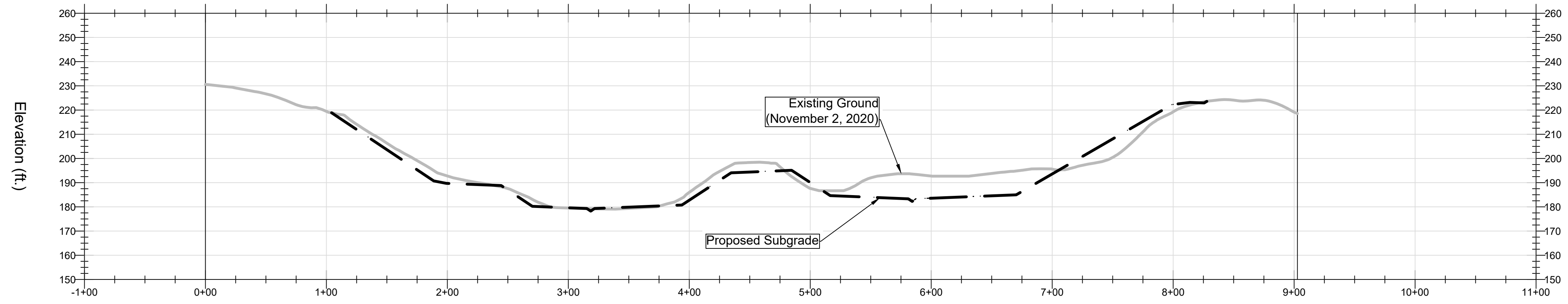
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 BATON ROUGE, LA 70816  
 Phone: 225-677-7950  
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PROPOSED CELL IX  
 CROSS SECTIONS

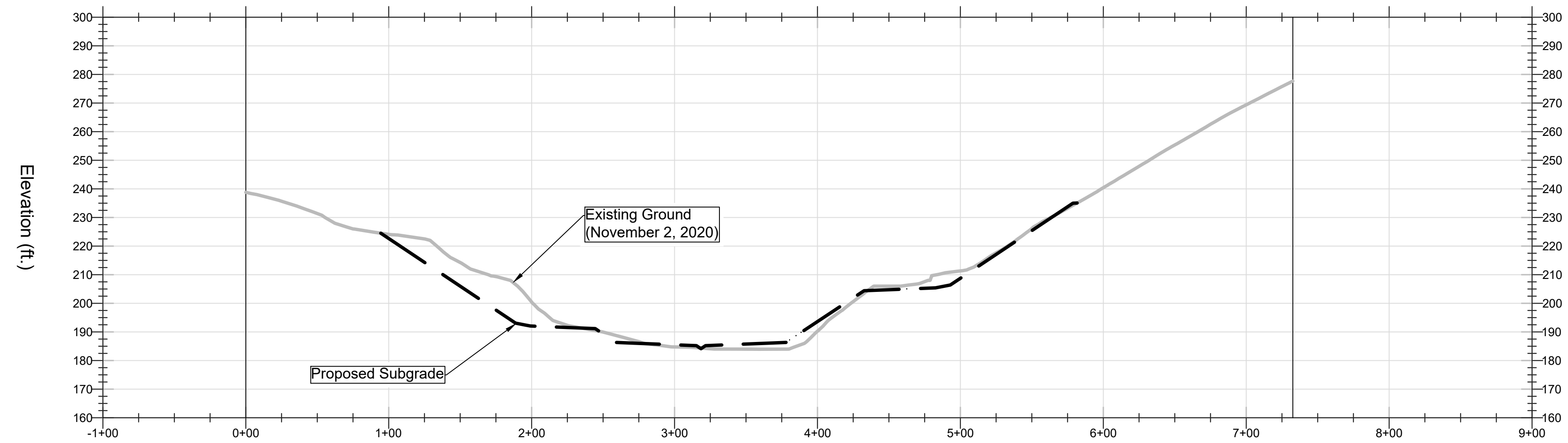
Project Engineer:	Project No.:	Date:	Drawing No.:
D. Romero	MUN-019	03-18-2021	5

REFERENCES:  
 1. Aerial survey performed by Mehr and Associates, Inc. on November 2, 2019.  
 2. Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.

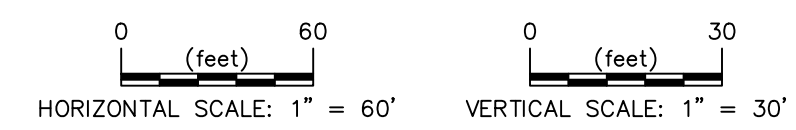
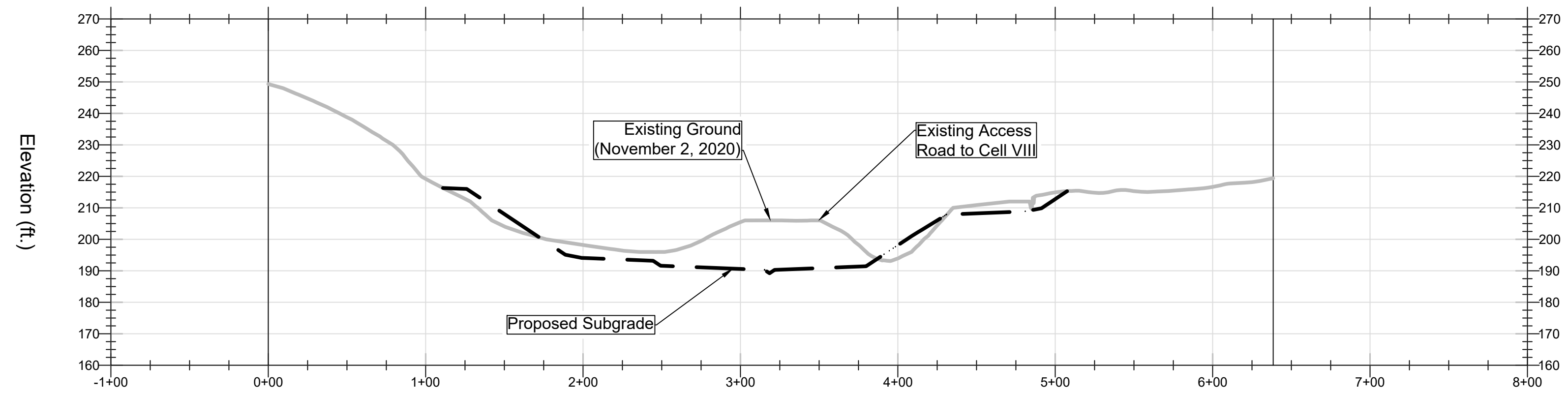
Cross Section D-D'



Cross Section E-E'



Cross Section F-F'



STATE OF LOUISIANA  
 RICARDO C. DE ABREU  
 License No. 31257  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 03-18-2021

STATE OF LOUISIANA  
 DUSTIN J. ROMERO  
 License No. 45312  
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MUNDY LANDFILL  
 DESOTO PARISH, LOUISIANA

for  
 DESOTO PARISH POLICE JURY  
 MANSFIELD, LOUISIANA

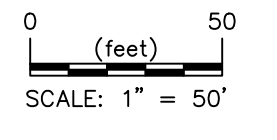
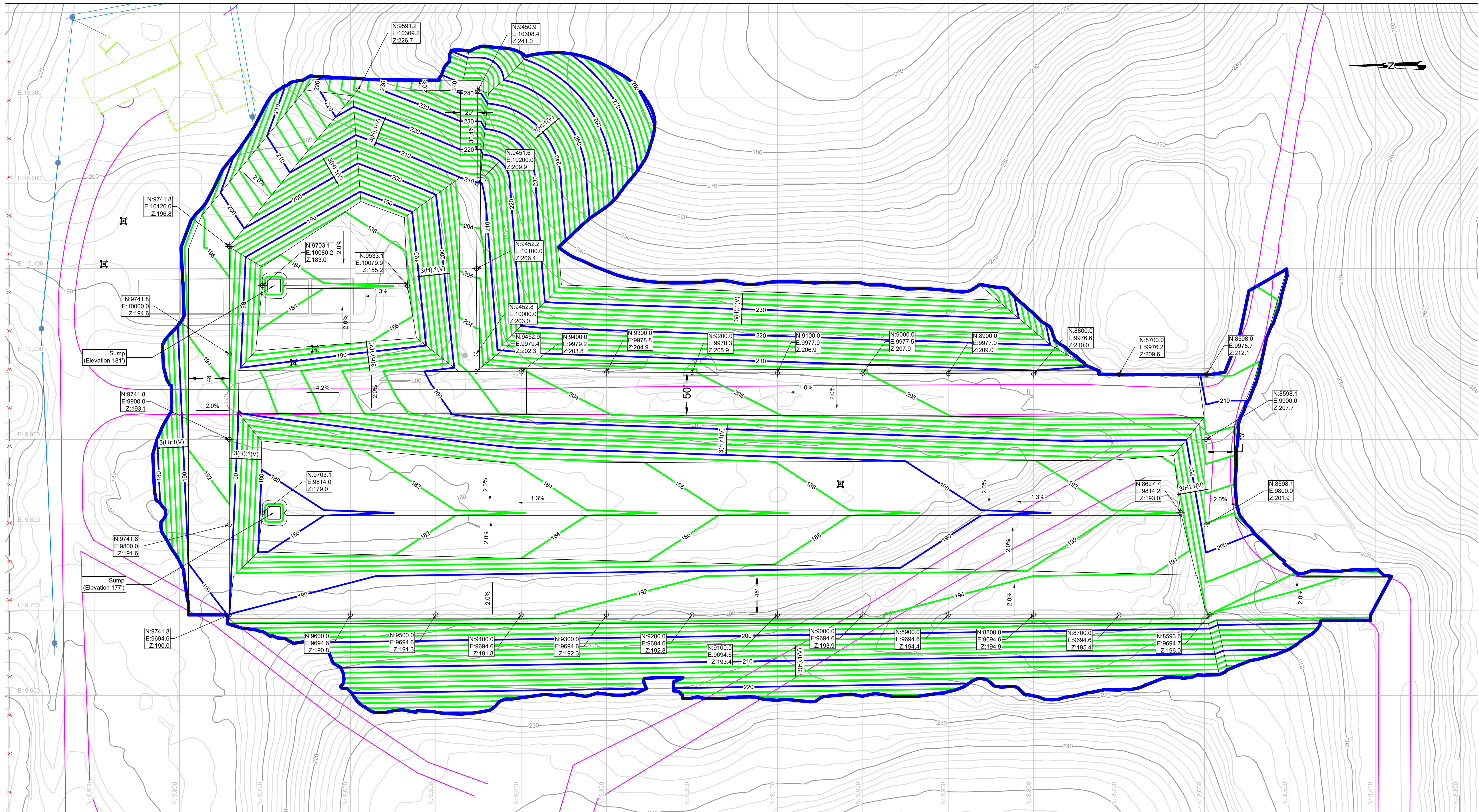
Fourrier & de Abreu  
 Engineers, L.L.C.  
 Environmental and Civil Engineering

10995 Coursey Blvd.  
 BATON ROUGE, LA 70816  
 Phone: 225-677-7950  
 contact@fdaengineers.com  
 www.fdaengineers.com

PROPOSED CELL IX  
 CROSS SECTIONS II

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 6
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REFERENCES:  
 1. Aerial survey performed by Mehr and Associates, Inc. on November 2, 2019.  
 2. Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.



**NOTES:**  
 1. Horizontal coordinates are based on facility coordinates. Elevations are based on facility datum.  
 2. Elevation of points along the tie-in with existing liners may vary from actual elevations found in the field.  
 3. Contractor shall coordinate construction activities with the Owner in order to facilitate day-to-day operations of the landfill.

**REFERENCES:**  
 1. Aerial survey performed by Mohr and Associates, Inc. on November 2, 2019.  
 2. Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.

**LEGEND**

	EXISTING TOPOGRAPHIC CONTOUR
	EXISTING EDGE OF ACCESS ROAD
	PROPOSED CLAY LINER CONTOUR

STATE OF LOUISIANA  
 RICARDO C. DE ABREU  
 License No. 31257  
 PROFESSIONAL ENGINEER  
*Ricardo C. de Abreu*  
 03-18-2021

STATE OF LOUISIANA  
 DUSTIN J. ROMERO  
 License No. 45312  
 PROFESSIONAL ENGINEER  
*Dustin J. Romero*  
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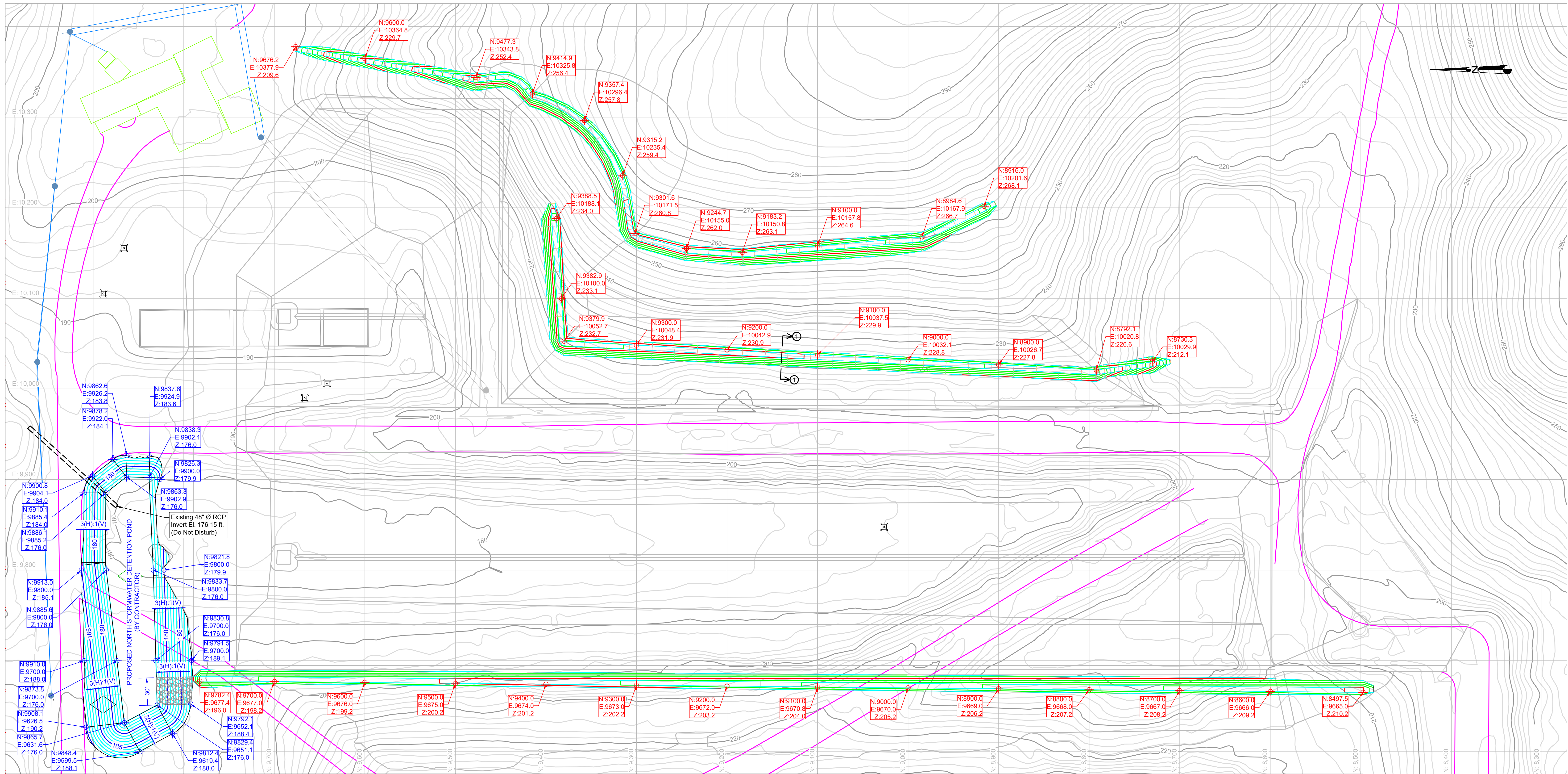
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**Fourrier & de Abreu**  
 Engineers, L.L.C.  
 Environmental and Civil Engineering

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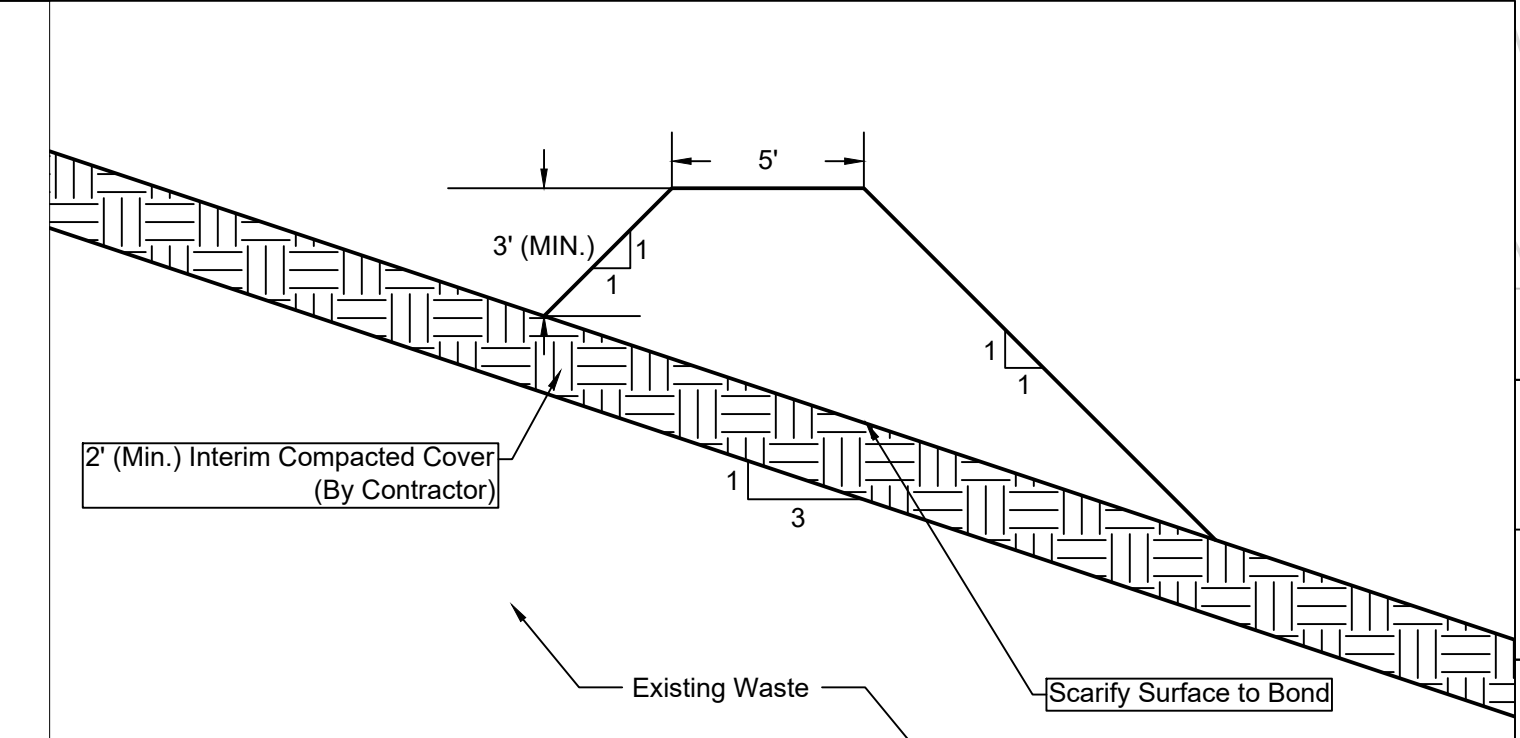
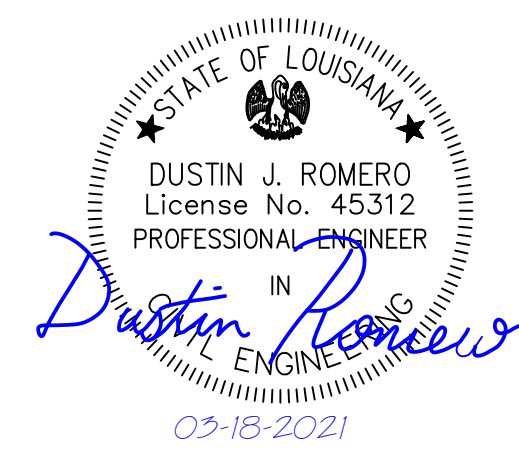
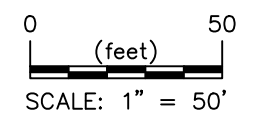
**PROPOSED CELL IX**  
**CLAY LINER PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 7
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- NOTES:**
- Horizontal coordinates are based on facility coordinates. Elevations are based on facility datum.
  - Contractor shall coordinate construction activities with the Owner in order to facilitate day-to-day operations of the landfill.
  - The proposed top of interim compacted cover was used as a base for the diversion berm design.
  - Diversion berms shall be compacted to minimum 95% standard proctor maximum dry density.
  - Contractor shall install rip rap as shown inside the stormwater detention pond.
- REFERENCES:**
- Aerial survey performed by Mehr and Associates, Inc. on November 2, 2019.
  - Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.

- LEGEND**
- EXISTING TOPOGRAPHIC CONTOUR
  - EXISTING EDGE OF ACCESS ROAD
  - PROPOSED DIVERSION BERM CONTOURS (BY CONTRACTOR)
  - PROPOSED NORTH STORMWATER DETENTION POND CONTOURS (BY CONTRACTOR)
  - PROPOSED RIP RAP (BY CONTRACTOR)
  - GRADING LINework (SEE CLAY LINER PLAN)



1 TYPICAL STORMWATER DIVERSION BERM  
SCALE: 1" = 5'

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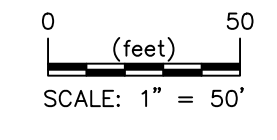
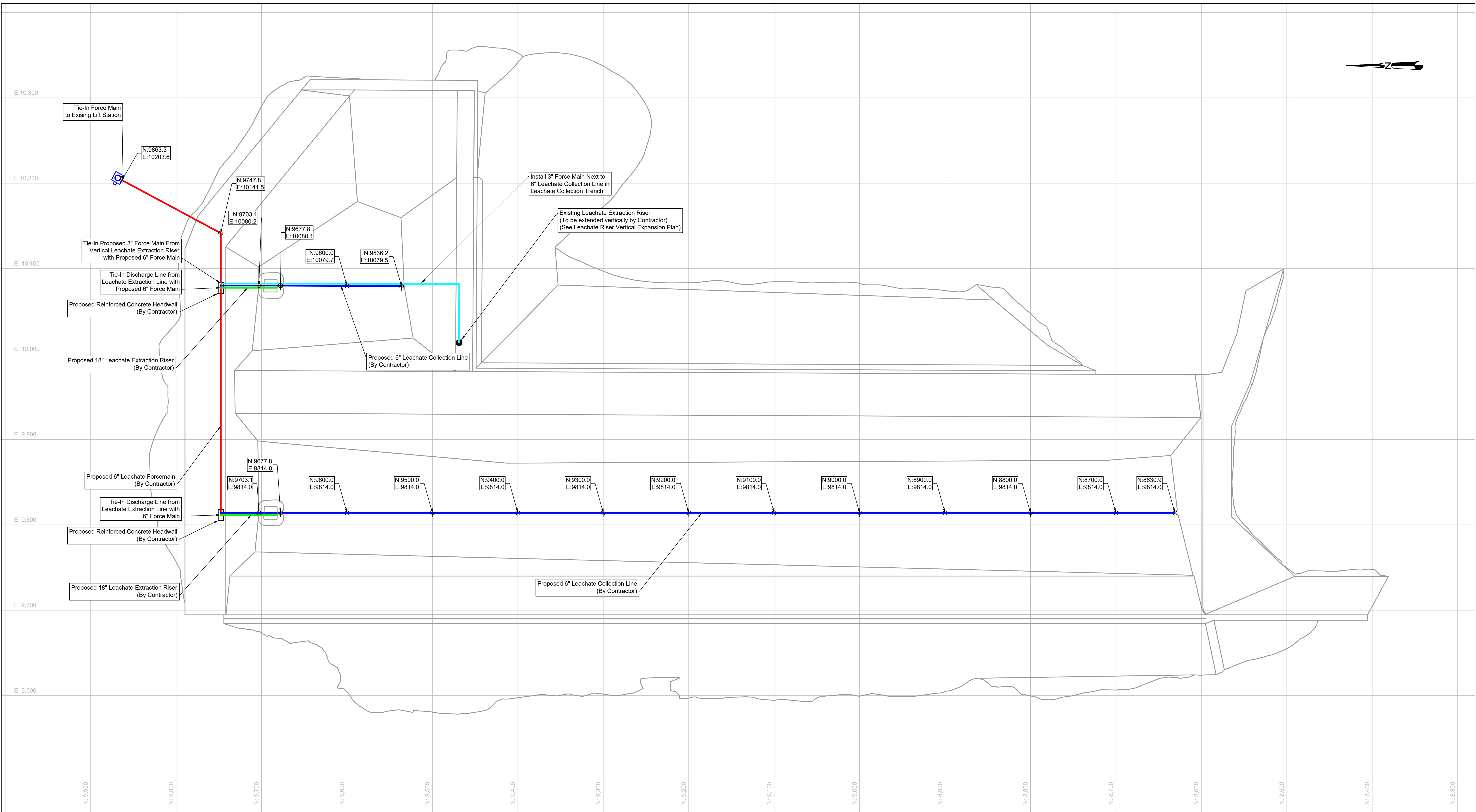
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**DESOTO PARISH POLICE JURY**  
MANSFIELD, LOUISIANA

**Fourrier & de Abreu**  
Engineers, L.L.C.  
Environmental and Civil Engineering

10955 Coursey Blvd.  
BATON ROUGE, LA 70816  
Phone: 225-677-7950  
contact@fdaengineers.com  
www.fdaengineers.com

**PROPOSED CELL IX**  
STORMWATER DIVERSION PLAN

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 8
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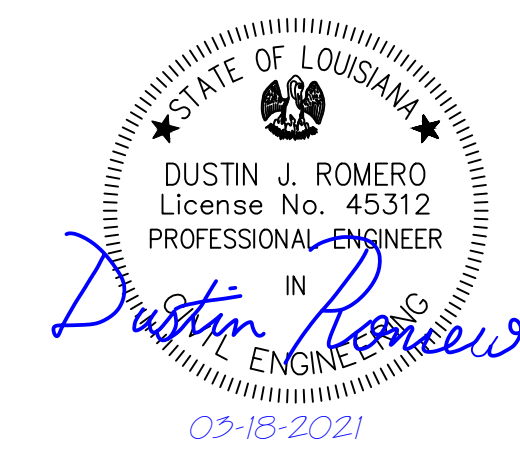


**NOTES:**  
 1. Horizontal coordinates are based on facility coordinates. Elevations are based on facility datum.  
 2. Contractor shall coordinate construction activities with the Owner due to day-to-day operations of the landfill.  
 3. Force main shall be pressure tested according to ASTM International F 2164. Written results of the pressure test shall be provided to the Engineer.  
 4. Marking tape shall be installed 1' above the buried force main pipe.  
 5. See General Details drawing for headwall and connections schematics and other piping details.

**REFERENCES:**  
 1. Aerial survey performed by Mohr and Associates, Inc. on November 2, 2019.  
 2. Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.

**LEGEND**

- PROPOSED LEACHATE COLLECTION LINE  
[6" Ø HDPE SDR-17, SOLID ON BERM  
SLOPES/PERFORATED ON CELL FLOOR & IN SUMP]
- PROPOSED LEACHATE EXTRACTION RISER  
[18" Ø HDPE SDR-17, SOLID ON BERM  
SLOPES/PERFORATED IN SUMP]
- PROPOSED LEACHATE FORCE MAIN  
[6" Ø SDR-17, SOLID]
- PROPOSED LEACHATE FORCE MAIN FROM  
LEACHATE RISER  
[3" Ø SDR-11, SOLID]
- GRADING LINEWORK, SEE CLAY LINER PLAN



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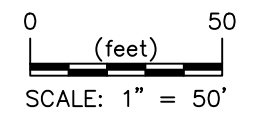
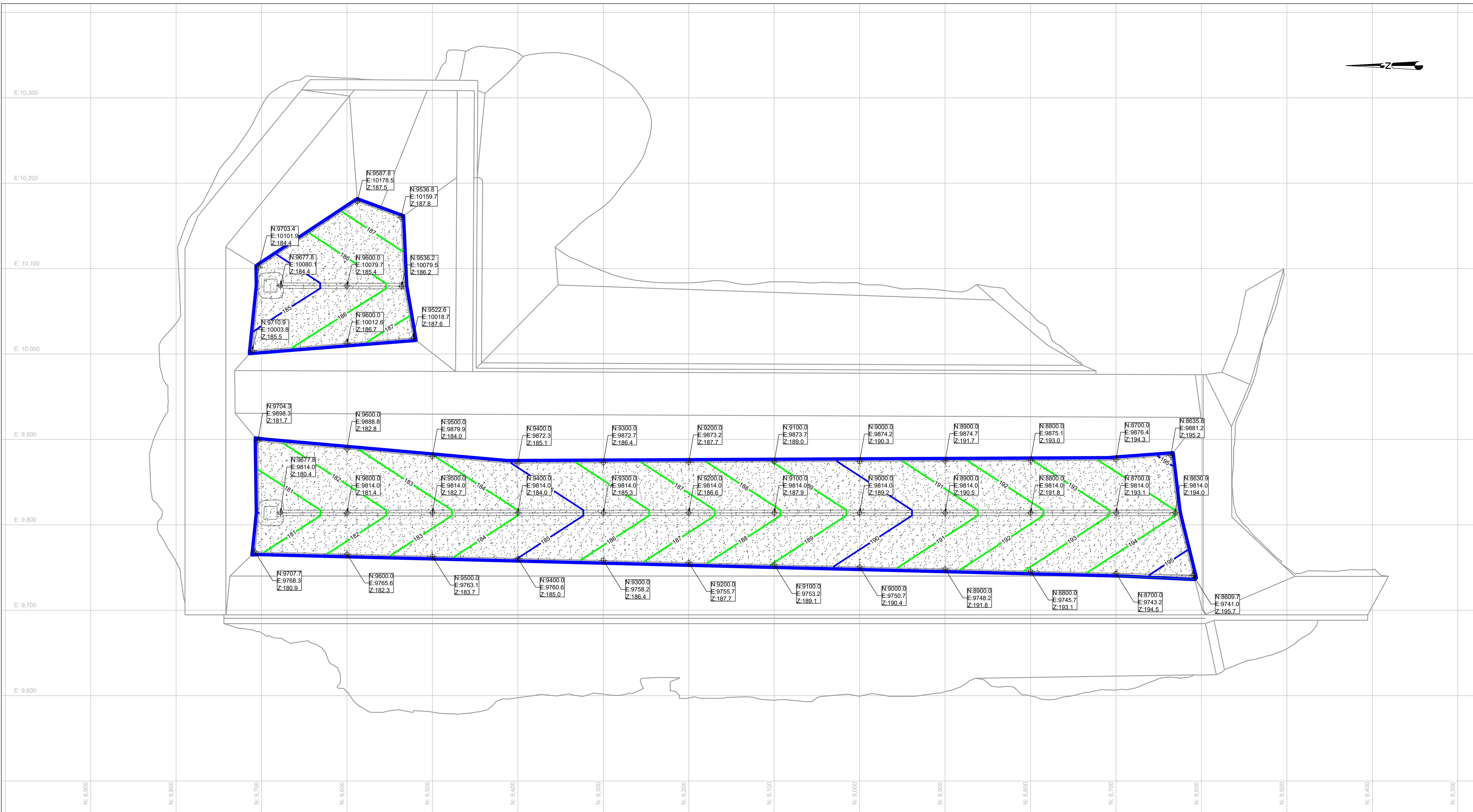
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Engineers, L.L.C.**  
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10995 Coursey Blvd.  
BATON ROUGE, LA 70816  
Phone: 225-677-7950  
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**PROPOSED CELL IX  
LEACHATE COLLECTION LINE PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 9
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- LEGEND**
-  PROPOSED SAND DRAINAGE LAYER CONTOUR
  -  GRADING LINEWORK (SEE CLAY LINER PLAN)
  -  SAND LAYER (1 FOOT THICKNESS MINIMUM)

**NOTES:**  
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 2. Contractor shall coordinate construction activities with the Owner in order to facilitate day-to-day operations of the landfill.

**REFERENCES:**  
 1. Aerial survey performed by Mehr and Associates, Inc. on November 2, 2019.  
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STATE OF LOUISIANA  
 RICARDO C. DE ABREU  
 License No. 31257  
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*Ricardo C. de Abreu*  
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STATE OF LOUISIANA  
 DUSTIN J. ROMERO  
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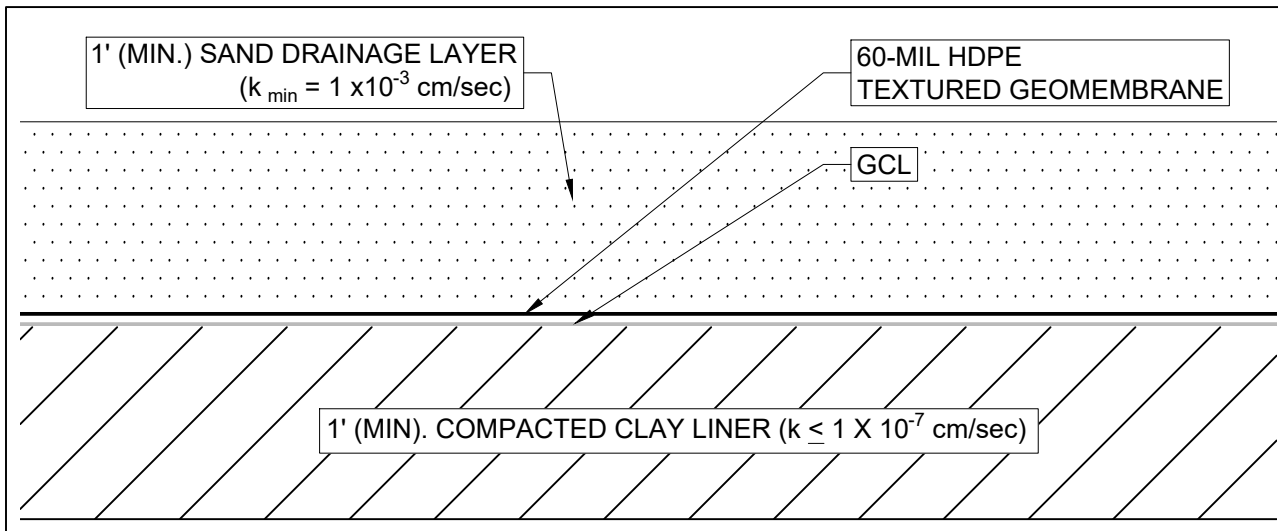
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for  
**DESOTO PARISH POLICE JURY**  
 MANSFIELD, LOUISIANA

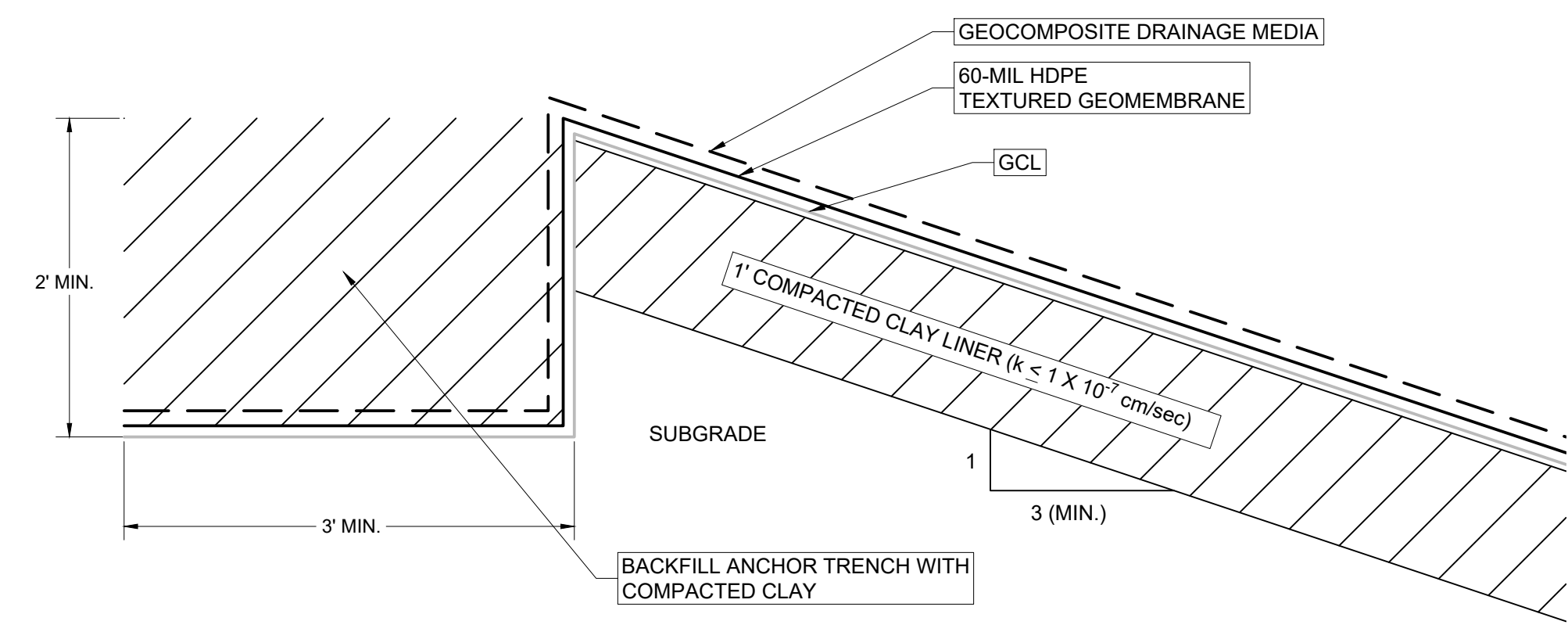
**Fourrier & de Abreu**  
 Engineers, L.L.C.  
 Environmental and Civil Engineering  
 10995 Coursey Blvd.  
 BATON ROUGE, LA 70816  
 Phone: 225-677-7950  
 contact@fdaengineers.com  
 www.fdaengineers.com

**PROPOSED CELL IX**  
**SAND DRAINAGE LAYER PLAN**

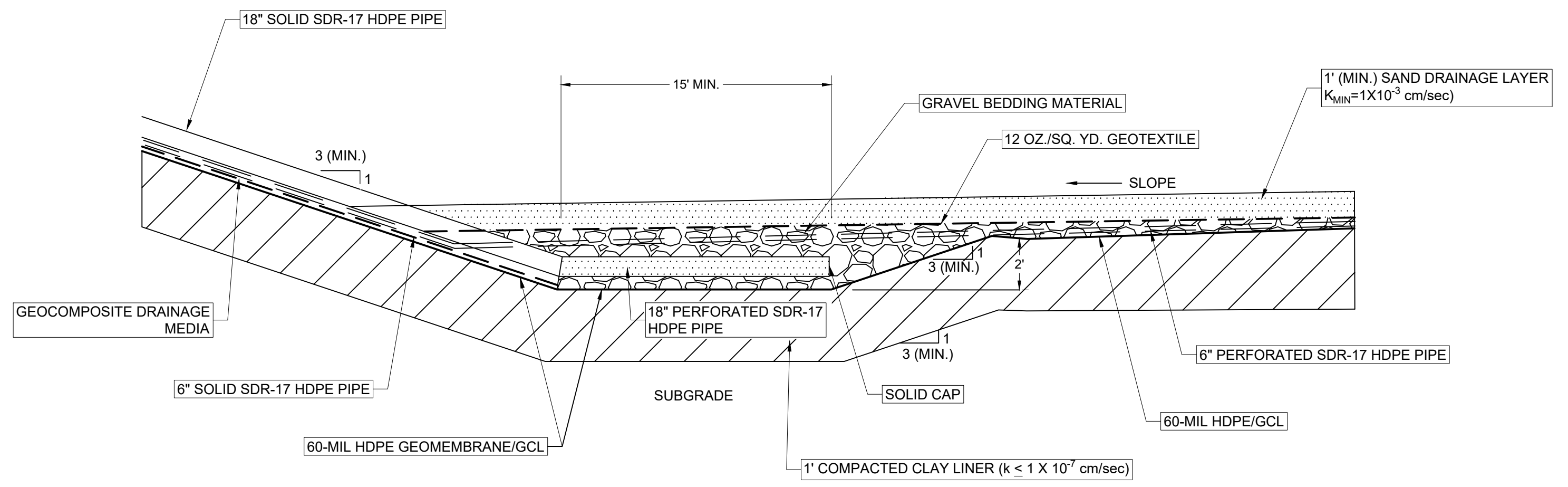
Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 10
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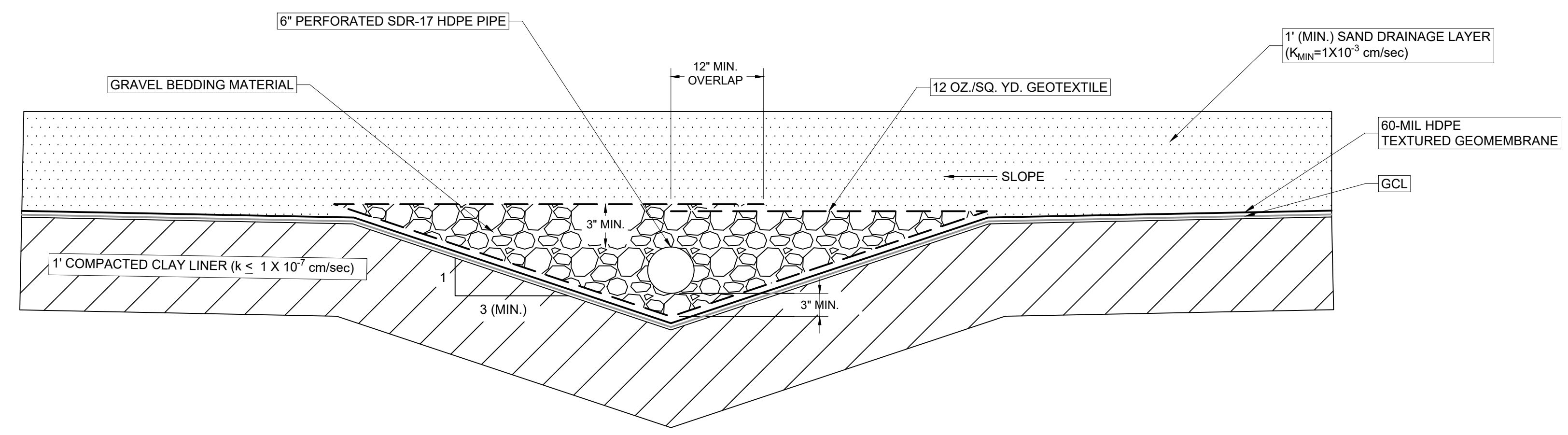
CELL IX FLOOR DETAIL  
SCALE: 1"=1'



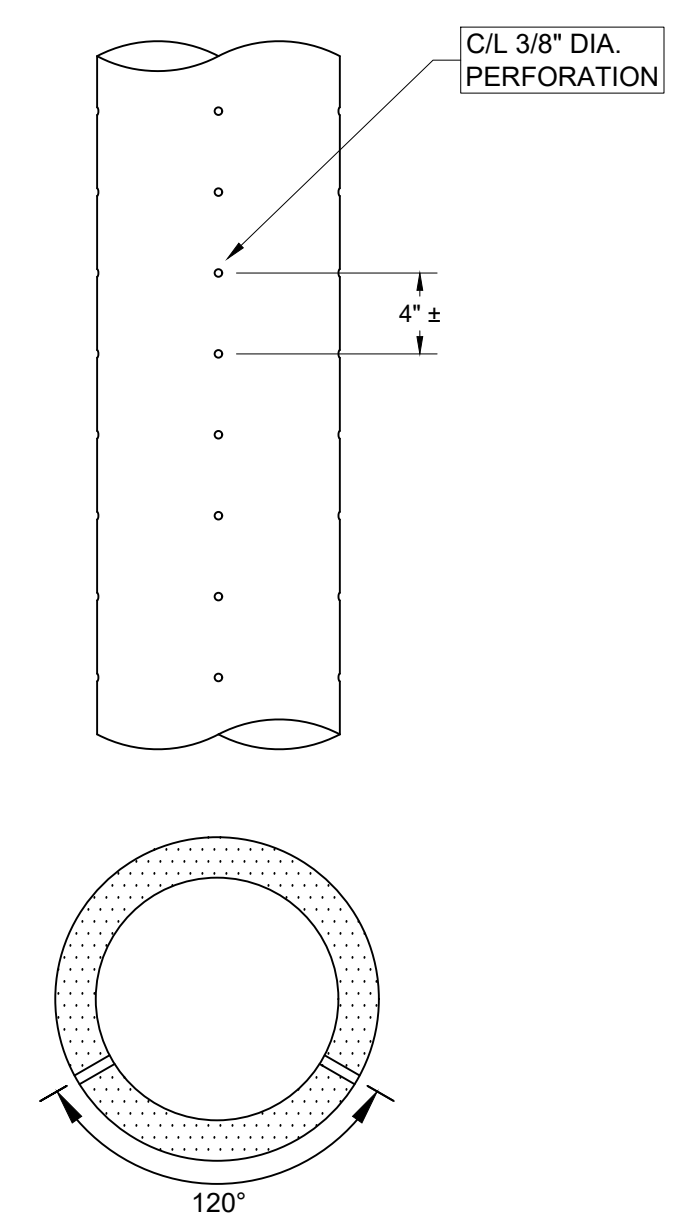
CELL IX SLOPES DETAIL  
SCALE: 1"=1'



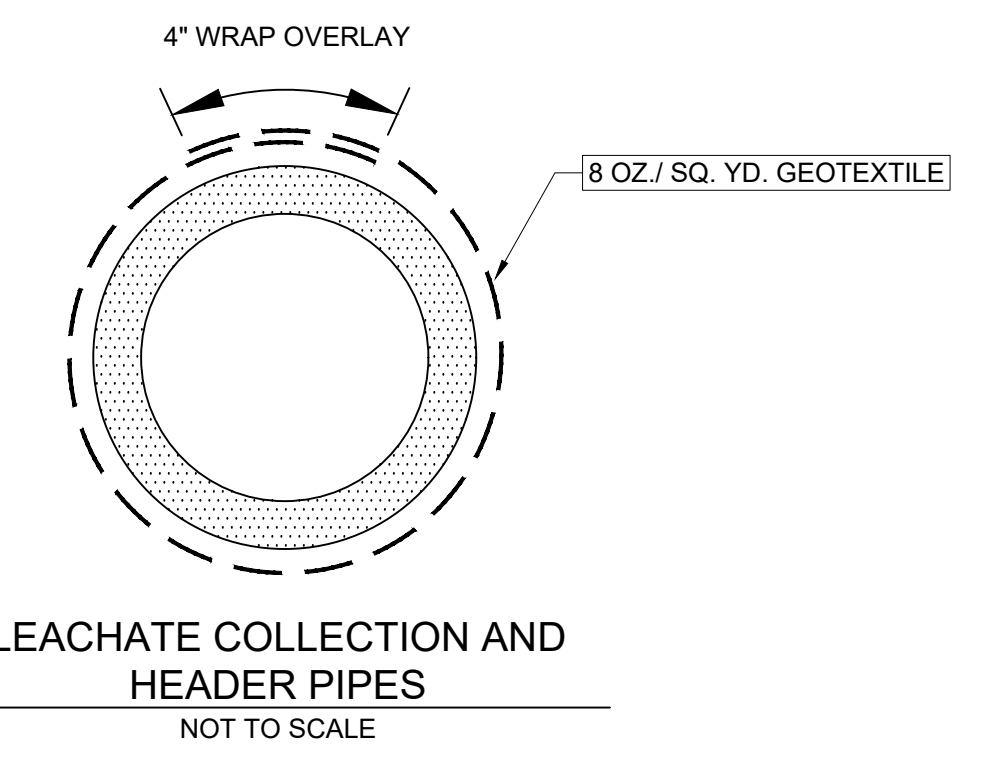
SUMP AREA DETAIL  
NOT TO SCALE



LEACHATE COLLECTION TRENCH  
SCALE 1"=1'



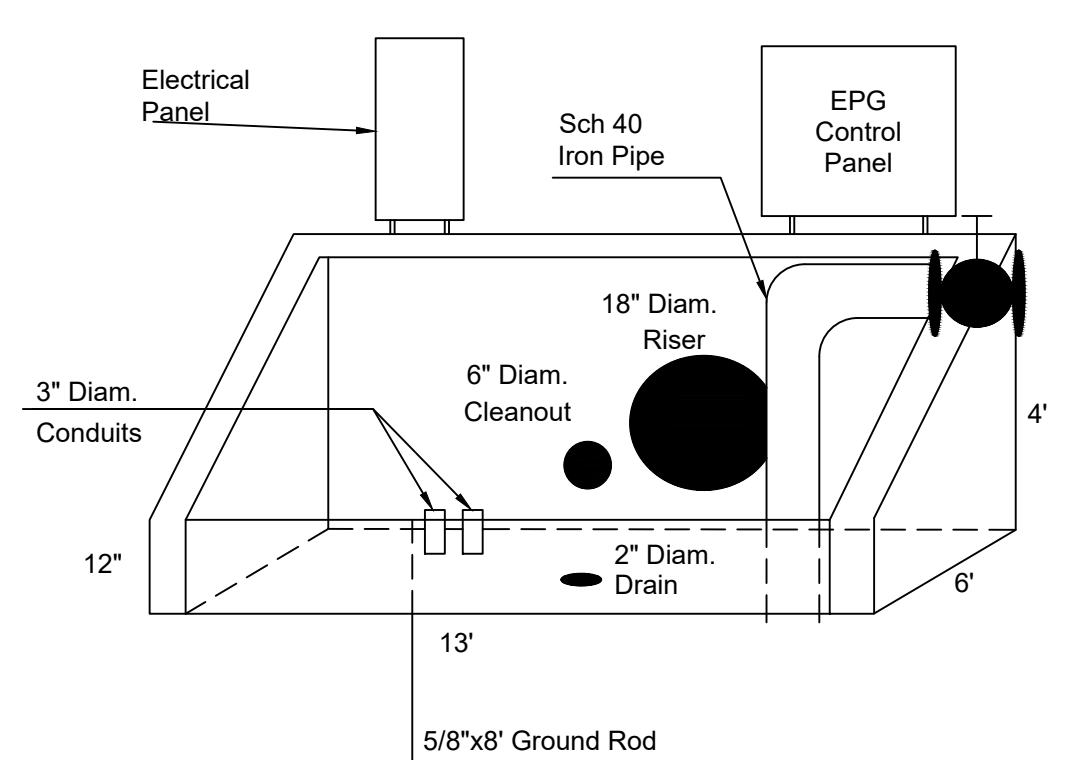
LEACHATE COLLECTION AND HEADER PIPES  
NOT TO SCALE



LEACHATE COLLECTION AND HEADER PIPES  
NOT TO SCALE

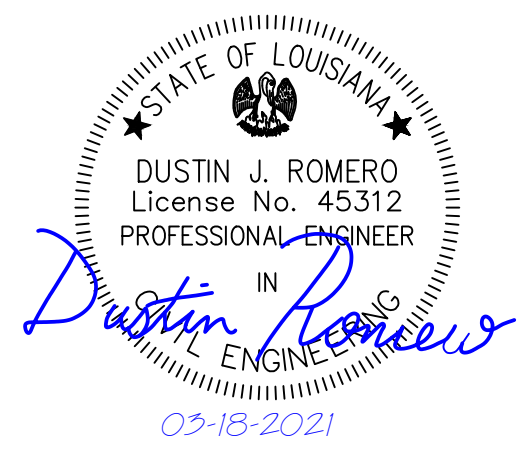
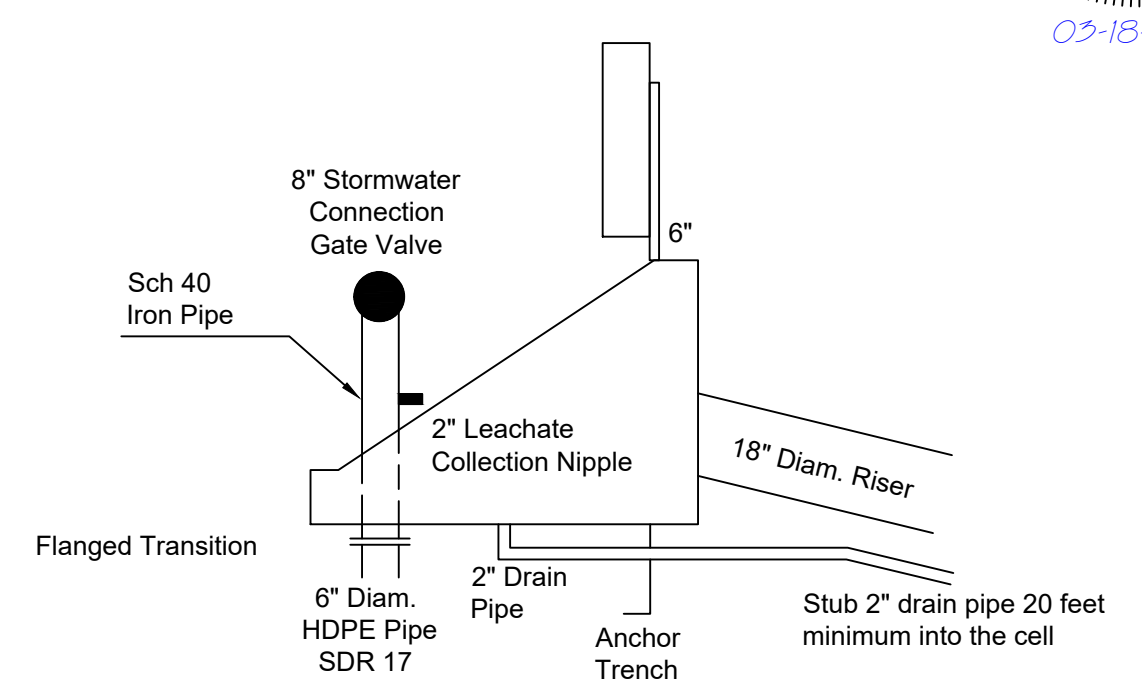
NOTES:

1. Perforations for 18-inch HDPE pipes shall be 3/8" in diameter, arranged in 3 rows spaced 6 inches apart, staggered 3 inches from perforations in adjacent rows. Perforated 18-inch pipes shall be wrapped in geotextile (8 oz./sq. yd.). Minimum of 3 inches of gravel under pipes is required.
2. Leachate collection pipes at the bottom of the cell shall be 6" diameter, perforated, SDR-17 HDPE pipe. Pipes shall be perforated generally as shown in Detail 5.
3. GCL may be used as a single component or bonded to the HDPE geomembrane.
4. The GCL and the HDPE geomembrane shall be installed down the slope, in the direction of flow, not across the slope. The GCL shall have a minimum overlap of 12 inches (or 18 inches if GCL moisture content is greater than typical as required in the specifications). Twenty-four inch overlap shall be used for tie-ins overlaps and ends. Welding is required for HDPE geomembrane panels. Welding of geomembrane is required even if the geomembrane is factory bonded to the GCL.
5. GCL shall have a minimum of 0.75 lbs. of bentonite per square foot.
6. Geotextile shall be minimum 8 oz./yd.<sup>2</sup> non-woven fabric (for internal wrap) unless geotextile contacts geomembrane, then fabric shall be at least 12 oz./yd.<sup>2</sup> non-woven geotextile (for external wrap).
7. Completed geotextile shall be tied with a plastic band prior to final placement.
8. Anchor trench shall be compacted to minimum 95% standard proctor dry density.
9. Geocomposite drainage media is comprised of a geonet sandwiched between geofabrics (non-woven). Geocomposite drainage media shall have a minimum transmissivity of  $1.0 \times 10^{-4}$  m<sup>2</sup>/sec at  $i = 1.0$ , 5000 psf.
10. Leachate collection pipes at the slope (riser pipes) shall be non perforated, SDR-17 HDPE pipes.
11. On the headwalls, Contractor shall provide an 8-inch cam fitting for final attachment of the stormwater valve. A stainless steel perforated drain cover (shower drain cover) shall be installed on the floor. Drain pipes shall be cut and flushed at the floor level.
12. Electrical panels for the leachate pumping system shall be NEMA 3R rated 200A/240V or similar with fee-through lugs and 8 breaker spaces. An 8-foot by 5/8-inch copper clad ground rod shall be installed adjacent to conduits and stabbed 3 inches above the floor of the headwall.
13. Electrical conductors between electrical panels shall be 4/0 Aluminum. Electrical circuit grounding conductor shall be bonded to the ground rod at headwalls.
14. All penetrations into the EPG Control Panels shall have Myers-type hubs and CGB connectors for cords and bonding wire. Control panels shall also have Myers-type hubs and EYS-style seals for conduit penetrations.
15. Force main shall tie-in to the existing lift station.
16. Contractor shall install 2" tap into the 8" SCH 40 Iron Pipe approximately 6 inches above the concrete floors. Contractor shall also install a 2" stainless steel swing check valve, a 2" x 1.5" stainless steel reducer, and a 1.5" nylon female cam-lock for connection to the sump pump hoses.
17. One-foot granular drainage blanket (sand) shall have minimum hydraulic conductivity equal to  $1 \times 10^{-3}$  cm/sec.



HEADWALL  
#5 Rebar 12" o.c.  
- 4000 psi Concrete  
- Floor and walls shall be 6" thick with chamfered edges.

HEADWALL AND CONNECTIONS SCHEMATICS  
NOT TO SCALE



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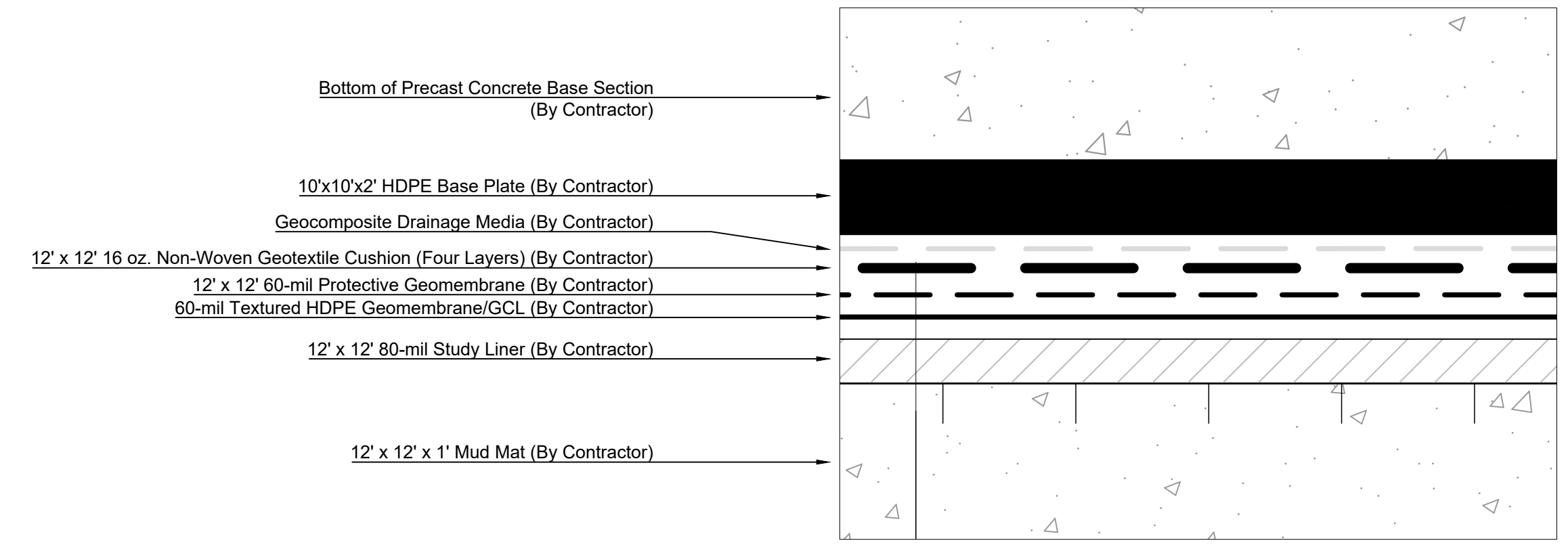
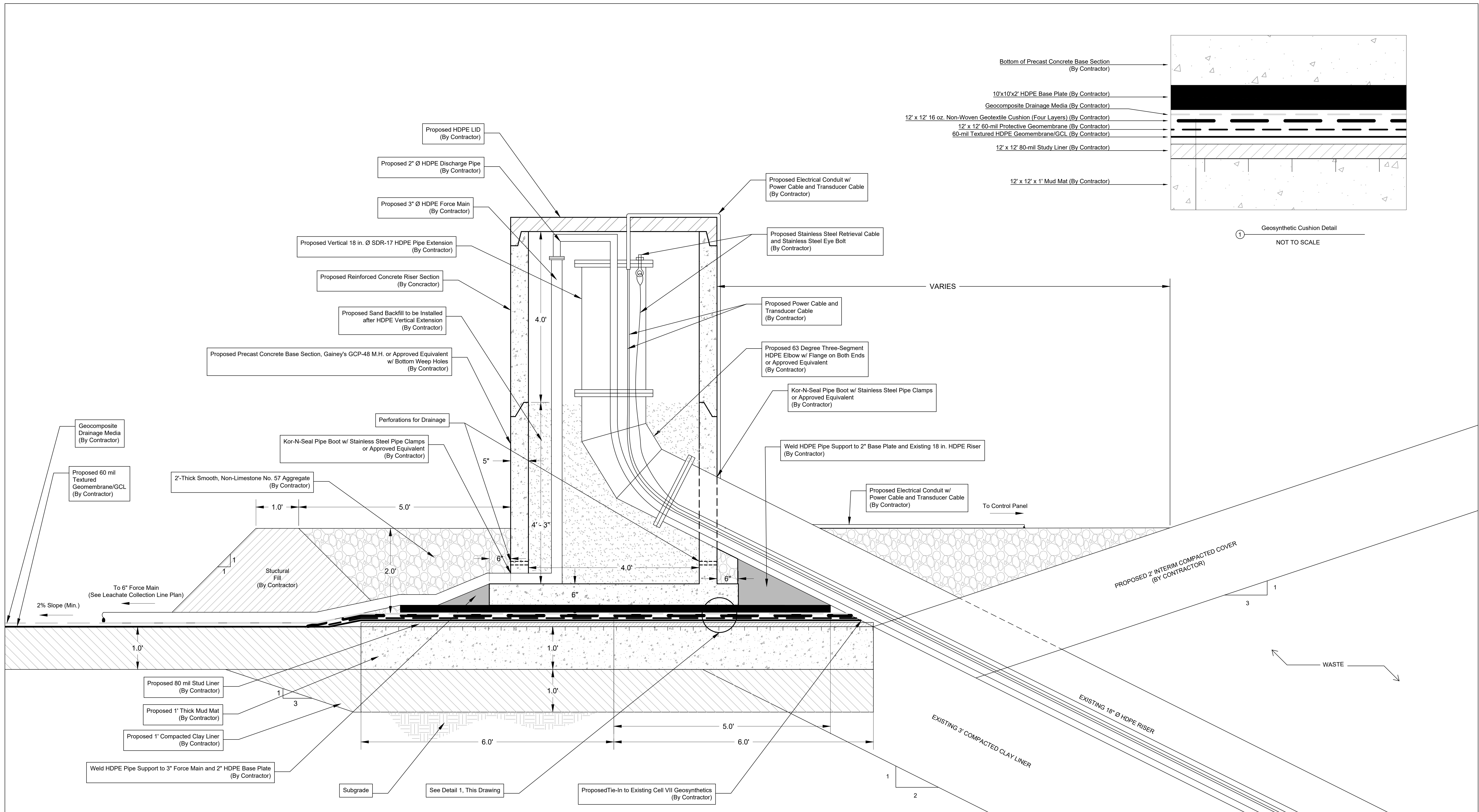
for  
**DESOTO PARISH POLICE JURY  
MANSFIELD, LOUISIANA**

**Fourrier & de Abreu  
Engineers, L.L.C.**  
Environmental and Civil Engineering  
Phone: 225-677-7950  
contact@fdaengineers.com  
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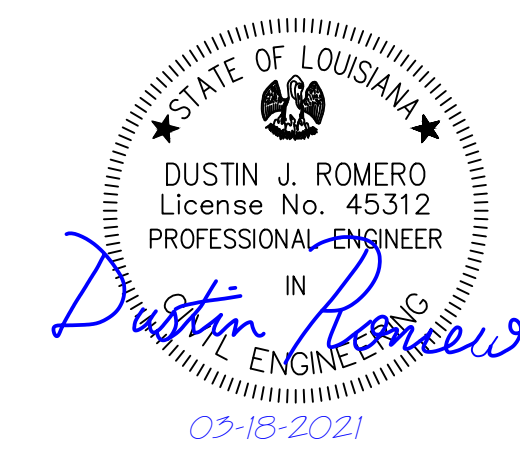
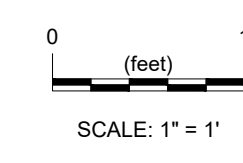
10995 Coursey Blvd.  
BATON ROUGE, LA 70816

**CELL IX  
GENERAL DETAILS**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 11
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- NOTES:**
1. Proposed geosynthetics shall be welded to existing Cell VII geosynthetic liner.
  2. Concrete shall have a minimum compressive strength of 5,000 psi at 28 days. Minimum compressive strength of 4,000 psi to be attained prior to shipment for precast concrete components.
  3. Type I/II portland cement is to be used.
  4. Concrete shall be reinforced in accordance with ASTM C478 and grade 60 minimum.
  5. Joints shall be sealed with ram-neck joint sealant or approved equivalent. Join sealants must meet ASTM C-990.
  6. Piping and electrical conduits shall be installed to allow easy future vertical expansion on the leachate extraction riser.
  7. All fittings shall be resistant to corrosion.
  8. Refer to the Leachate Collection Line Plan for the horizontal location of the 3" HDPE force main.



**MUNDY LANDFILL**  
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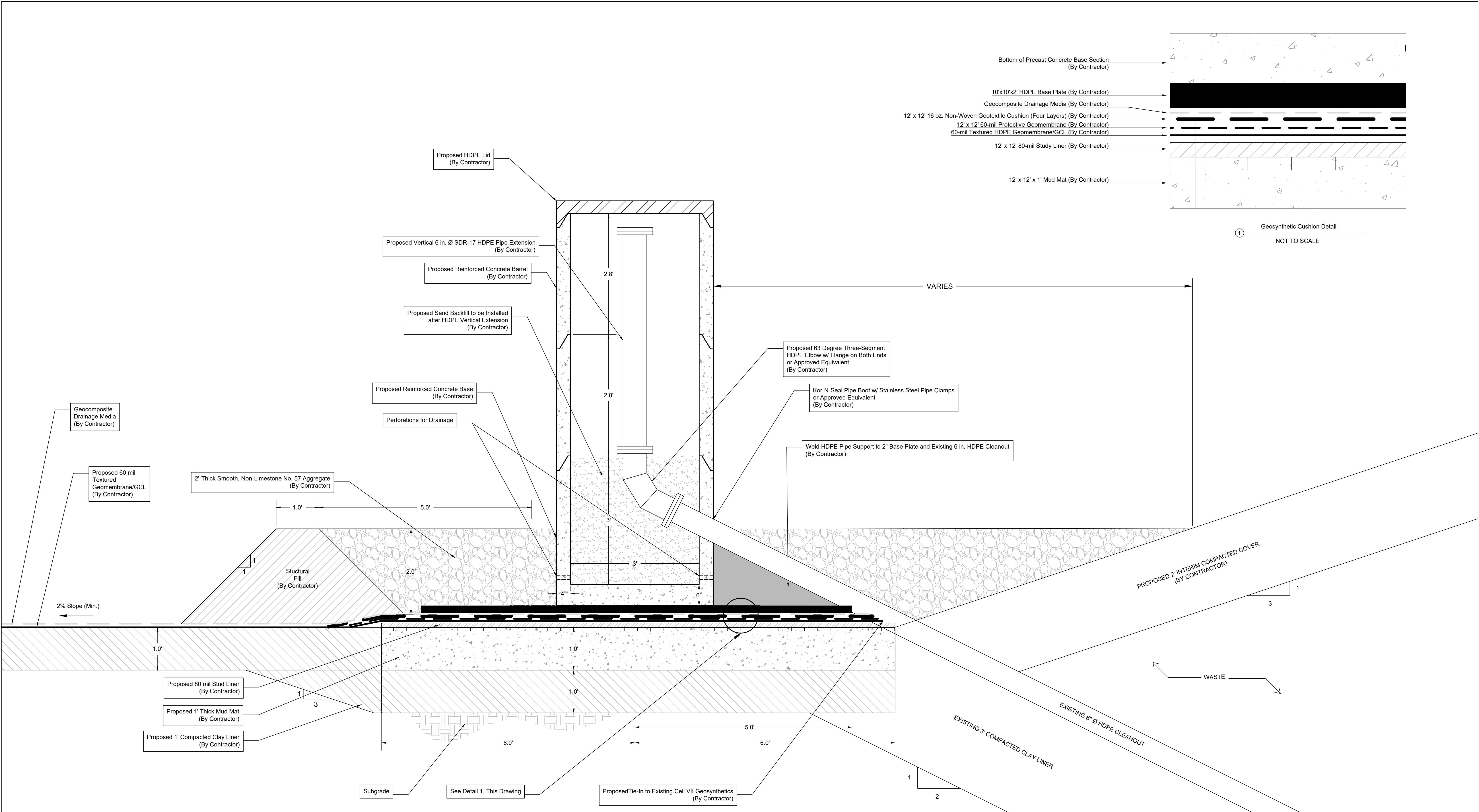
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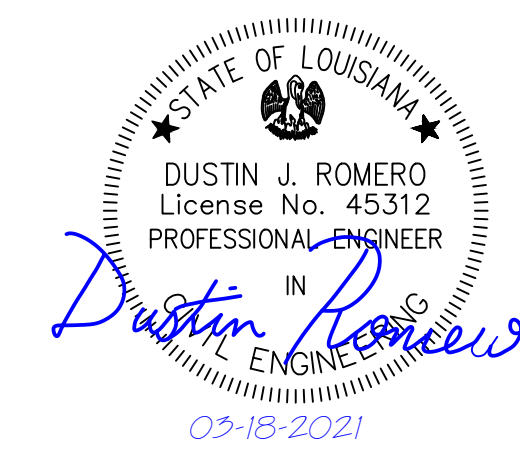
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**PROPOSED CELL IX**  
**LEACHATE RISER**  
**VERTICAL EXPANSION PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 12
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- NOTES:**
- Proposed geosynthetics shall be welded to existing Cell VII geosynthetic liner.
  - Concrete shall have a minimum compressive strength of 5,000 psi at 28 days. Minimum compressive strength of 4,000 psi to be attained prior to shipment for precast concrete components.
  - Type I/II portland cement is to be used.
  - Concrete shall be reinforced in accordance with ASTM C478 and grade 60 minimum.
  - Joints shall be sealed with ram-neck joint sealant or approved equivalent. Join sealants must meet ASTM C-990.
  - All fittings shall be resistant to corrosion.



**MUNDY LANDFILL  
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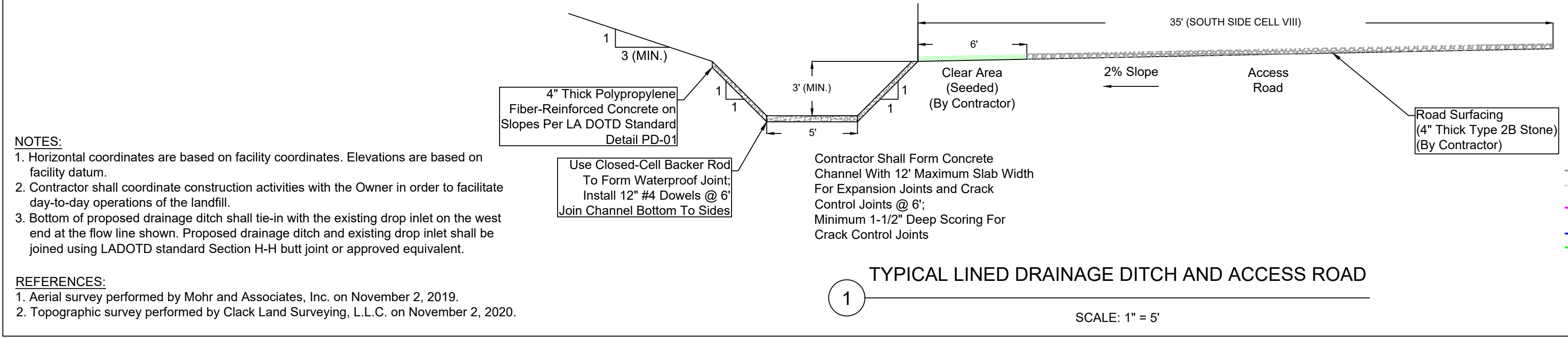
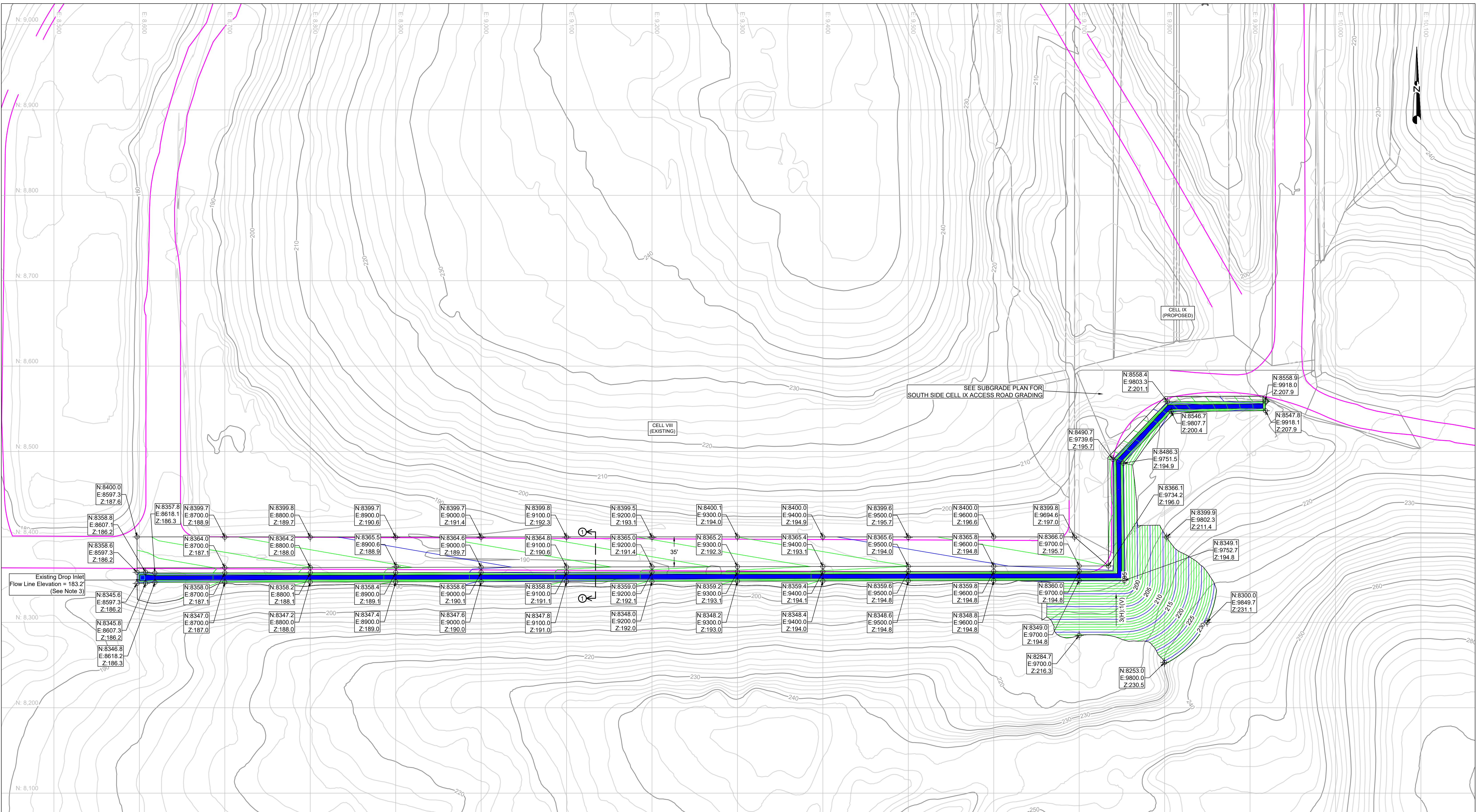
for  
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10995 Coursey Blvd.  
BATON ROUGE, LA 70816  
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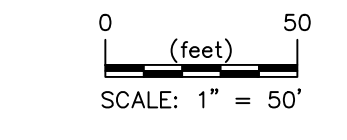
**PROPOSED CELL IX  
CLEANOUT  
VERTICAL EXPANSION PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 13
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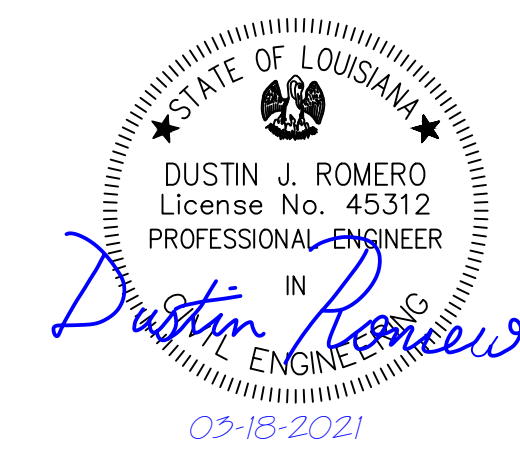
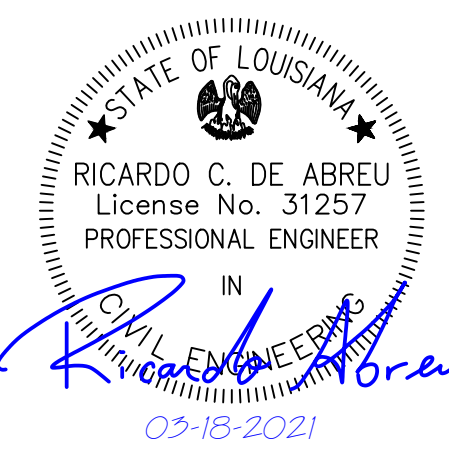


- NOTES:**
- Horizontal coordinates are based on facility coordinates. Elevations are based on facility datum.
  - Contractor shall coordinate construction activities with the Owner in order to facilitate day-to-day operations of the landfill.
  - Bottom of proposed drainage ditch shall tie-in with the existing drop inlet on the west end at the flow line shown. Proposed drainage ditch and existing drop inlet shall be joined using LADOTD standard Section H-H butt joint or approved equivalent.

- REFERENCES:**
- Aerial survey performed by Mehr and Associates, Inc. on November 2, 2019.
  - Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.



- LEGEND**
- EXISTING TOPOGRAPHIC CONTOUR
  - EXISTING EDGE OF ACCESS ROAD
  - PROPOSED DRAINAGE DITCH CONTOURS (BY CONTRACTOR)



**MUNDY LANDFILL**  
DESOTO PARISH, LOUISIANA

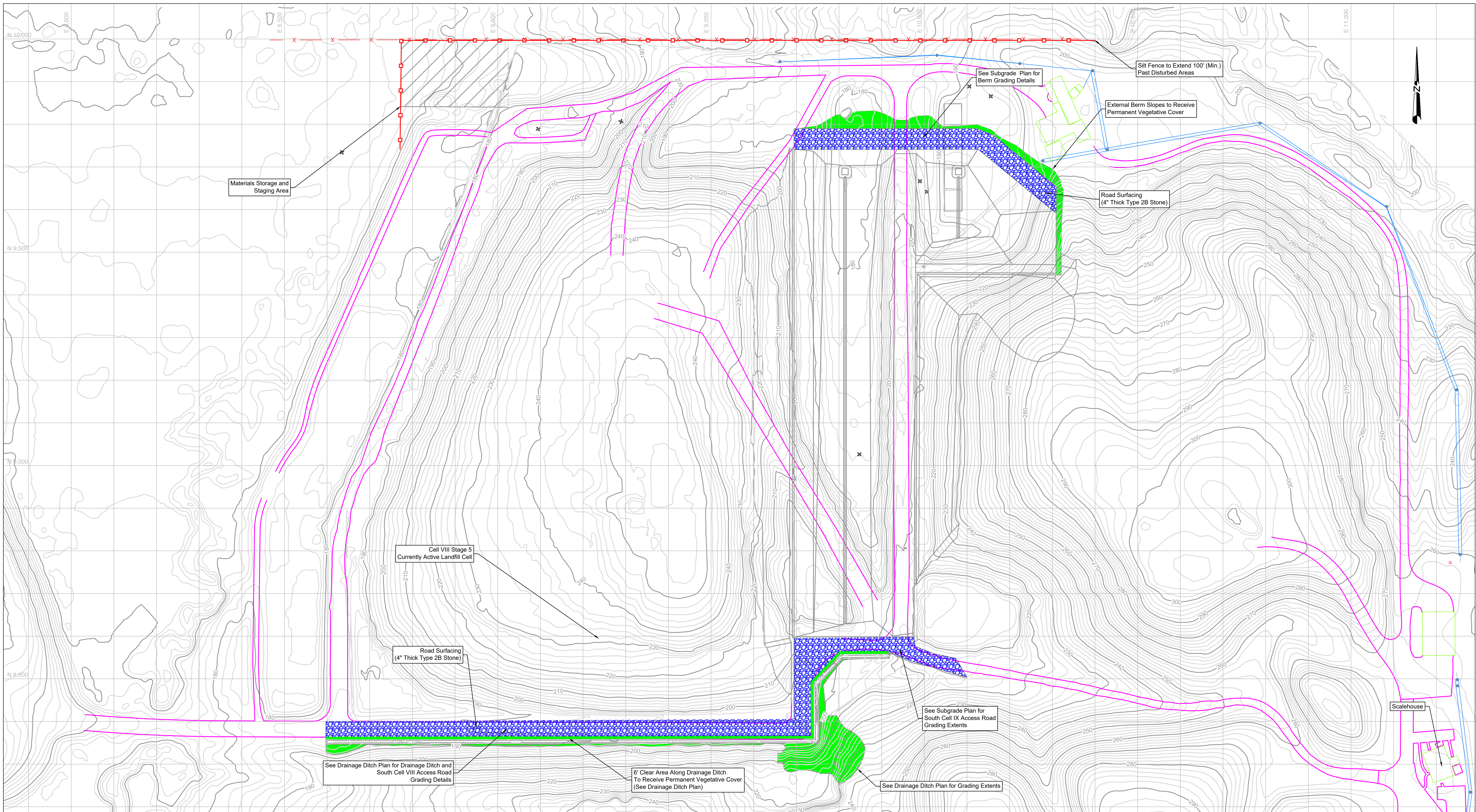
for  
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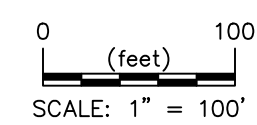
**PROPOSED CELL IX**  
**DRAINAGE DITCH PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021	Drawing No.: 14
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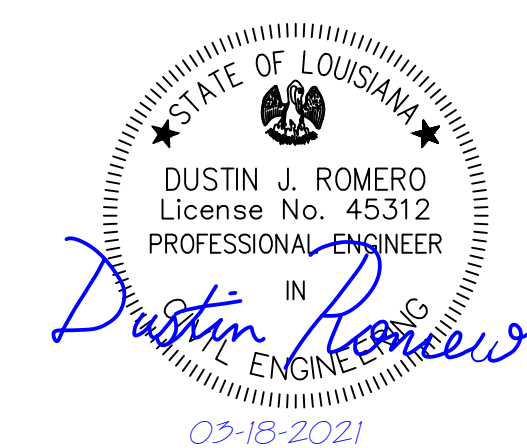


- NOTES:**
1. Permanent vegetative cover, including grass, shall be installed in the approximate areas shown.
  2. Areas presented for installation of permanent vegetative cover materials are approximate and based on the most recent topographic survey. Actual areas requiring final stabilization may vary.
  3. Contractor shall install permanent vegetative cover in locations disturbed during construction.
  4. Silt fence locations may vary depending on the areas disturbed during construction. The material storage and staging area shall be coordinated with Owner and Engineer. Silt fence shall extend a minimum of 100 ft. past the disturbed area.
  5. This drawing is schematic only and is intended to show the approximate location of the proposed erosion control elements. This drawing, including topographic contours, shall not be used for estimating distances, elevations, areas, volumes, quantities, etc.

- REFERENCES:**
1. Aerial survey performed by Mehr and Associates, Inc. on November 2, 2019.
  2. Topographic survey performed by Clack Land Surveying, L.L.C. on November 2, 2020.



- LEGEND**
- EXISTING TOPOGRAPHIC CONTOUR
  - EXISTING EDGE OF ACCESS ROAD
  - POTENTIAL LOCATION FOR INSTALLATION OF SILT FENCE (BY CONTRACTOR)
  - AREA TO RECEIVE PERMANENT VEGETATIVE COVER/GRASS (BY CONTRACTOR)
  - PROPOSED ROAD SURFACING (4" THICK TYPE 2B STONE) (BY CONTRACTOR)



**MUNDY LANDFILL**  
DESOTO PARISH, LOUISIANA

for  
**DESOTO PARISH POLICE JURY**  
MANSFIELD, LOUISIANA

**Fourier & de Abreu**  
Engineers, L.L.C.  
Environmental and Civil Engineering

10995 Coursey Blvd.  
BATON ROUGE, LA 70816  
Phone: 225-677-7950  
contact@fdaengineers.com  
www.fdaengineers.com

**PROPOSED CELL IX**  
**EROSION CONTROL PLAN**

Project Engineer: D. Romero	Project No.: MUN-019	Date: 03-18-2021
Drawing No.:		15