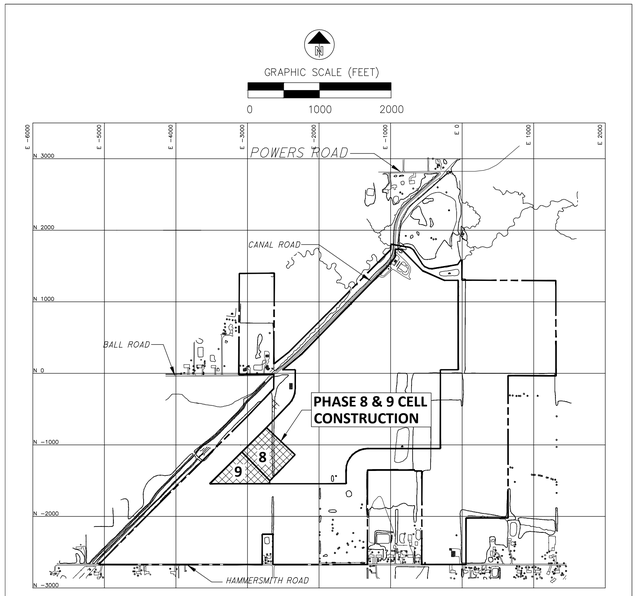
DEFIANCE COUNTY LANDFILL EXPANSION

PHASES 8 & 9

BAT CELL & SUPPORT STRUCTURES CONSTRUCTION



SITE MAP

OWNER/OPERATOR
DEFIANCE COUNTY
BOARD OF COMMISSIONERS
500 COURT STREET
DEFIANCE, OHIO 43512
(419) 782-4761

FACILITY ADDRESS
DEFIANCE COUNTY LANDFILL
13207 CANAL ROAD
DEFIANCE, OHIO 43512
(419) 784-2844

LEGAL DESCRIPTION

PROPERTY LOCATION - EXISTING LANDFILL

SECTIONS 4 AND 5, TOWN 3 NORTH, RANGE 4 EAST,
DEFIANCE TOWNSHIP, DEFIANCE COUNTY, OHIO
LYING EAST OF CANAL ROAD & SOUTH OF THREE MILE CREEK

INDEX OF SHEETS

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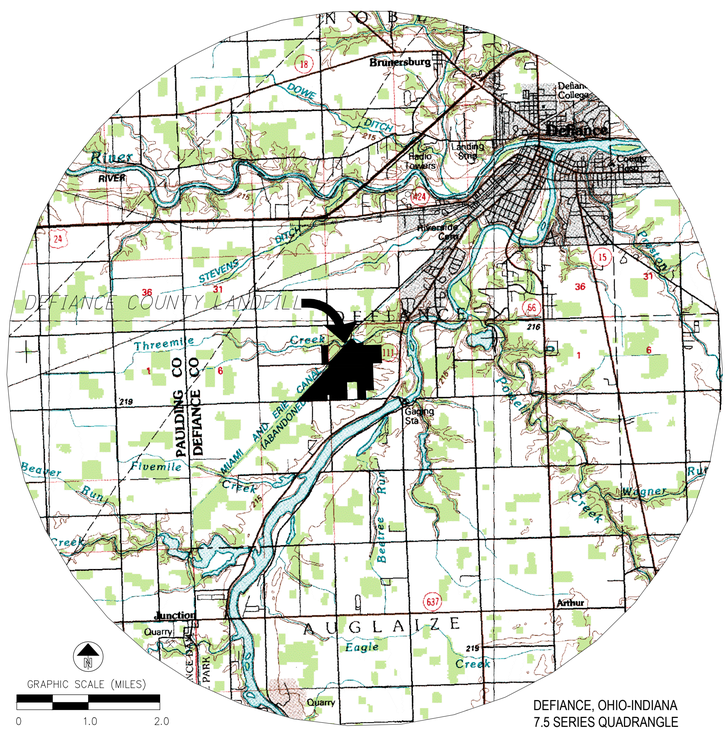

DEFIANCE, OHIO-INDIANA
7.5 SERIES QUADRANGLE

LOCATION MAP

NO.	DATE	BY	DESCRIPTION

1800 INDIAN WOOD CIRCLE
MAUMEE, OH 43537
TEL: 419.891.2222
FAX: 419.891.1555

PROJECT DATE: NOVEMBER 2025
PROJECT NO: DFCC0143
DRAWN BY: SRG
CHECKED BY: KCD

Mannik Smith GROUP
TECHNICAL SKILL. CREATIVE SPIRIT.
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PREPARED FOR
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DEFIANCE, OHIO 43512

SITE IMPROVEMENT PLAN FOR
DEFIANCE COUNTY
LANDFILL
13207 CANAL ROAD
DEFIANCE, OHIO 43512

TITLE SHEET

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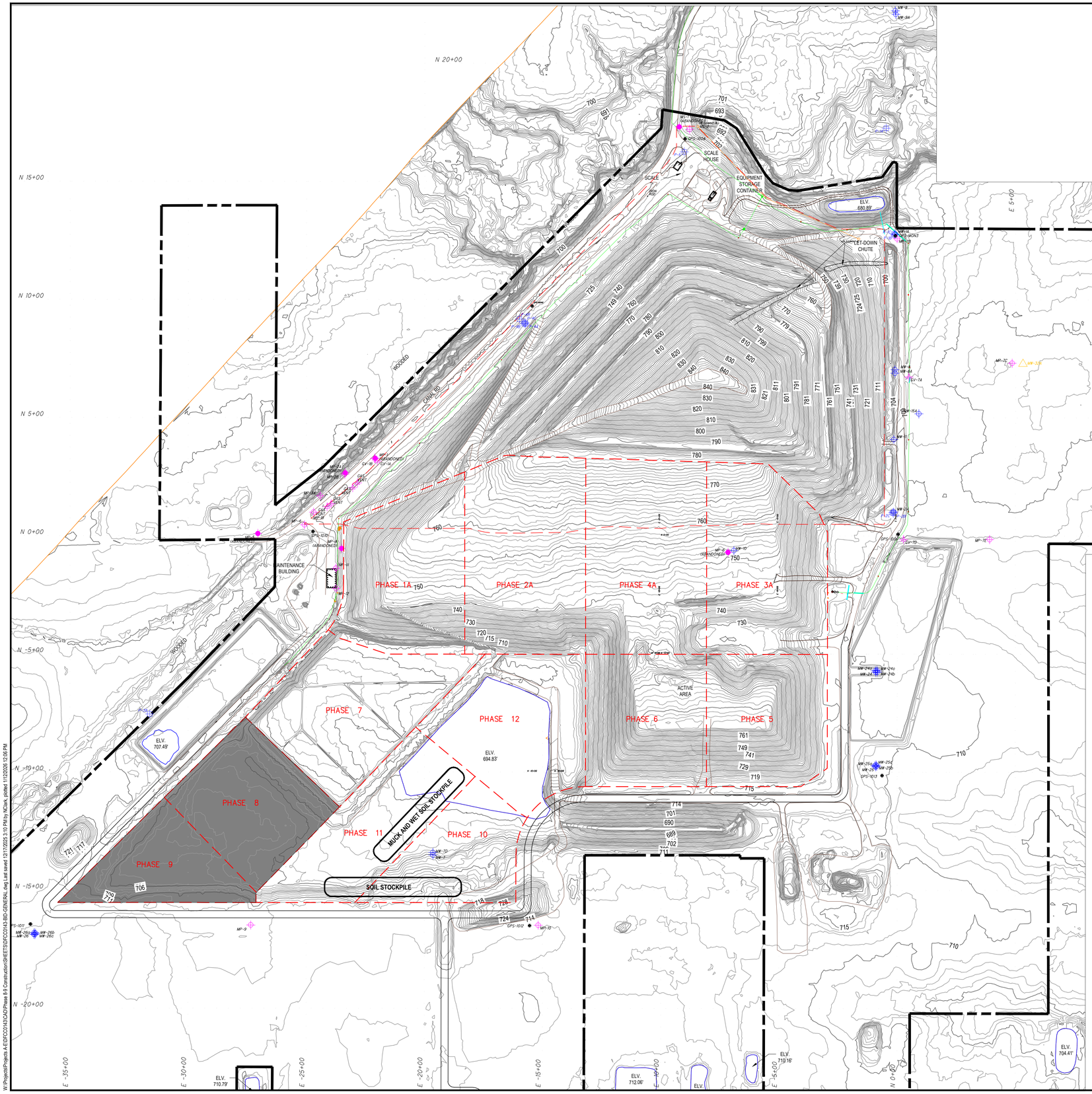

GRAPHIC SCALE

0 200' 400'

LEGEND

- EXISTING CONTOURS
- PROPERTY BOUNDARY DEFIANCE COUNTY COMMISSIONERS
- EXISTING PERIMETER FENCE
- PROPOSED CONSTRUCTION LIMIT
- CELL PHASE LIMIT
- PHASE TRANSITION BOUNDARY
- MW-11 EXISTING GROUNDWATER MONITORING WELLS
- P-2B EXISTING PIEZOMETER
- MP-24 EXISTING GAS MONITORING PROBE
- GAS VENT EXISTING GAS VENT
- GPS-1013 GPS SURVEY BENCHMARK
- FM EXISTING LEACHATE FORCEMAIN

SURVEY CONTROL POINT COORDINATE TABLE

Point ID	Defiance County Landfill Coordinate System		
	NORTH	EAST	ELEVATION
GPS1008	1680.841	-898.941	709.25
GPS1009	7.734	3.318	710.26
GPS1010	18.656	-2471.890	708.69
GPS1011	-1644.084	-3666.263	712.00
GPS1012	-1649.398	-1554.771	713.85
GPS1013	-1013.685	-63.892	710.13
GPS MON3	1271.294	-8.774	708.30
Point ID	**State Plane Coordinate System NAVD88**		
	NORTH	EAST	ELEVATION
GPS1008	582753.665	1442661.244	708.17
GPS1009	581059.682	1443523.669	709.20
GPS1010	581129.157	1441049.412	707.63
GPS1011	579495.137	1439816.038	710.96
GPS1012	579439.873	1441926.814	712.77
GPS1013	580040.139	1443432.314	709.07
GPS MON3	582323.174	1443541.472	707.22

CONSTRUCTION NOTES

1. WORK INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF COMPOSITE LINER & LEACHATE COLLECTION SYSTEM IN PHASES 8 & 9. SEE CONTRACT BID DOCUMENTS FOR COMPLETE SCOPE OF WORK.
2. SURFACE TOPOGRAPHY DEPICTING CURRENT CONDITIONS IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN SURVEY INFORMATION IN ACCORDANCE WITH SECTION 01050.
3. TEMPORARY CONTRACTOR FACILITIES & UTILITIES IF NECESSARY ARE TO BE LOCATED IN AN AREA ACCEPTABLE TO THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH SECTIONS 01510 & 01590.
4. THE CONTRACTOR SHALL PARK & STAGE EQUIPMENT IN DESIGNATED AREAS ONLY, UNLESS OTHERWISE SPECIFIED BY THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH SECTION 01600.
5. STOCKPILE LOCATIONS FOR EXCESS SOIL WILL BE DETERMINED BY OWNER & ENGINEER, LIKELY TO THE SOUTHEAST OF THE WORK AREA. TEMPORARY SOIL STOCKPILES SHOULD BE LOCATED IN AREAS WHERE THE SOIL IS NEEDED FOR FUTURE WORK. SOIL STOCKPILES SHOULD BE LOCATED & MAINTAINED IN ACCORDANCE WITH SECTION 02219.
6. SOIL FROM THE BORROW AREA BLOCKS CONSISTS OF PREQUALIFIED MATERIAL & SHALL ONLY BE USED IN CONSTRUCTION OF RECOMPACTED SOIL LINER. SOIL FOR OTHER CONSTRUCTION SHALL BE TAKEN FROM EXCESS SOIL STOCKPILES OR OTHER AREAS DESIGNATED BY THE ENGINEER.
7. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ENVIRONMNETAL CONTROLS WITHIN THE CONSTRUCTION LIMITS IN ACCORDANCE WITH SECTION 01560.
8. OUTSIDE THE LIMITS OF CONSTRUCTION ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THE CONDITIONS PRESENT PRIOR TO THE CONTRACTOR'S ARRIVAL IN ACCORDANCE WITH SECTION 01560.
9. THE CONTRACTOR SHALL PERFORM WORK CLOSE OUT ACTIVITIES IN ACCORDANCE WITH SECTION 01700 & MAINTAIN PROJECT RECORD DOCUMENTS IN ACCORDANCE WITH SECTION 01710.

SURVEY NOTES

1. TOPOGRAPHIC INFORMATION IS BASED ON AN AERIAL SURVEY FLOWN ON 10-20-2025 BY THE MANNIK & SMITH GROUP, INC.
2. CONTOUR INTERVAL = 1 FOOT.

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SITE IMPROVEMENT PLAN FOR
DEFIANCE COUNTY LANDFILL
13207 CANAL ROAD
DEFIANCE, OHIO 43512

GENERAL FACILITY ARRANGEMENT

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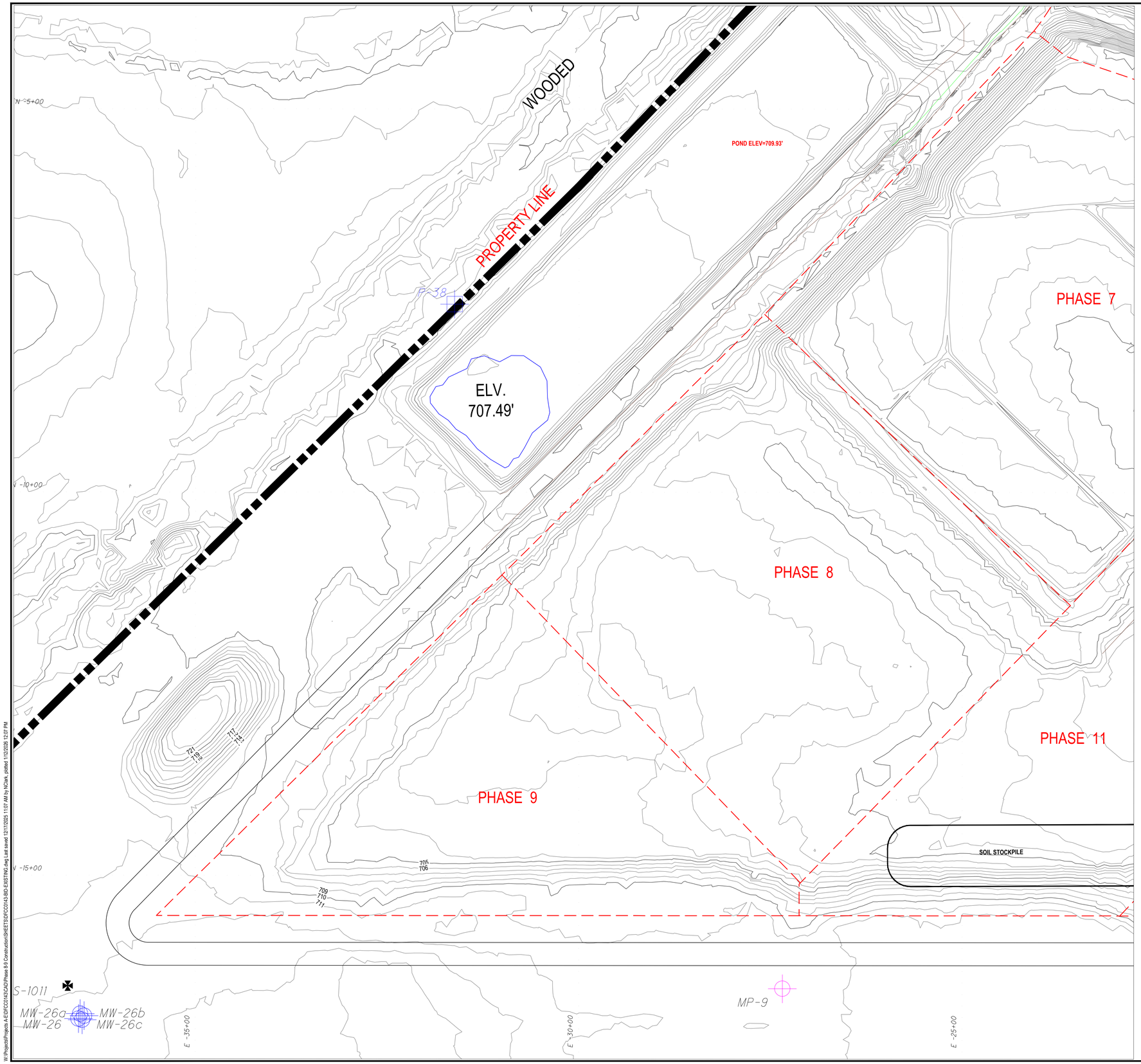

GRAPHIC SCALE

0 60' 120'

LEGEND

- EXISTING CONTOURS
- PROPERTY BOUNDARY DEFIANCE COUNTY COMMISSIONERS
- EXISTING PERIMETER FENCE
- PROPOSED CONSTRUCTION LIMIT
- CELL PHASE LIMIT
- PHASE TRANSITION BOUNDARY
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- P-28 EXISTING PIEZOMETER
- MP-24 EXISTING GAS MONITORING PROBE
- GAS VENT EXISTING GAS VENT
- GPS-1013 GPS SURVEY BENCHMARK
- FM EXISTING LEACHATE FORCEMAIN

CONSTRUCTION NOTES

1. SURFACE TOPOGRAPHY DEPICTING CURRENT CONDITIONS IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN SURVEY INFORMATION IN ACCORDANCE WITH SECTION 01050.
2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ENVIRONMENTAL CONTROLS WITHIN THE CONSTRUCTION LIMITS IN ACCORDANCE WITH SECTION 01560.
3. TO BE BROUGHT TO GRADE WITH STRUCTURAL FILL AS NEEDED. SEE SHEET 4 FOR FINAL GRADES.
4. SOIL BALANCE IS TO BE PLACED IN STOCKPILE AREA AS DIRECTED BY OWNER / ENGINEER.

PHASE 8-9	SF	ACRES
	468,830	10.8

APPROXIMATE SOIL QUANTITIES			
LOCATION	COMPONENT	CUT (cy)	FILL (cy)
PHASE 8-9 CELL	STRUCTURAL FILL	–	9,228
	RECOMPACTED CLAY LINER	-	53,434
	IN SITU SOIL MATERIAL	147,152	-
	SOIL BALANCE TO STOCKPILE	–	84,940

APPROXIMATE GRANULAR FILL QUANTITIES			
LOCATION	COMPONENT	CUT (cy)	FILL (cy)
PHASE 8-9 CELL	LCS GRAVEL	–	17,811

* PREQUALIFIED CLAY THAT CAN BE USED FOR RSL CONSTRUCTION

SURVEY NOTES

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PROJECT DATE: NOVEMBER 2025
PROJECT NO: DFCC0143
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SITE IMPROVEMENT PLAN FOR
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LANDFILL
13207 CANAL ROAD
DEFIANCE, OHIO 43512

EXISTING CONDITIONS

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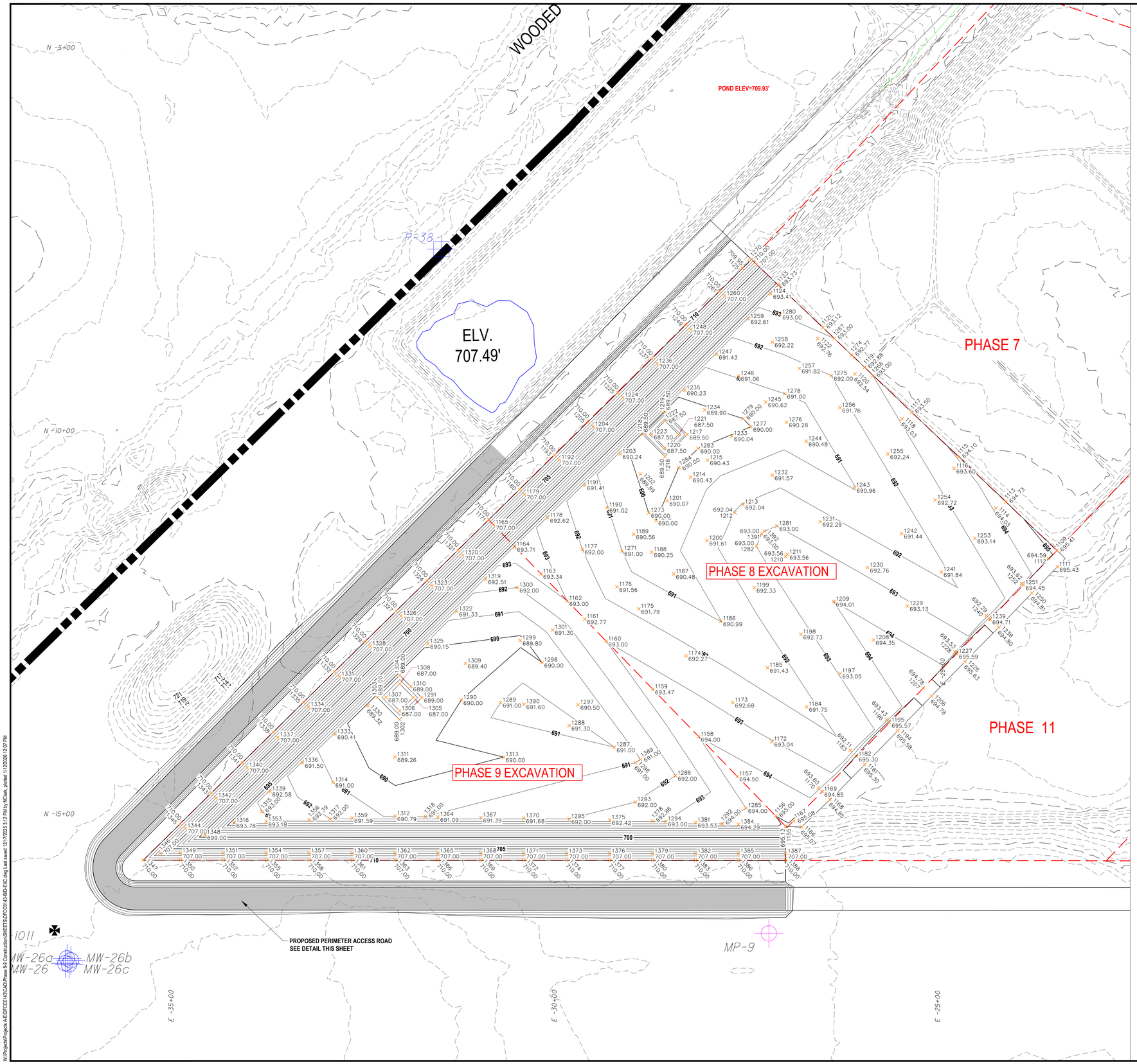

GRAPHIC SCALE

0 60' 120'

LEGEND

- EXISTING CONTOURS
- PROPOSED EXCAVATION CONTOURS
- PROPOSED EXCAVATION SPOT ELEVATION
- PROPERTY BOUNDARY DEFIANCE COUNTY COMMISSIONERS
- EXISTING PERIMETER FENCE
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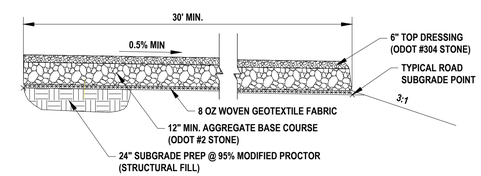
CONSTRUCTION NOTES

1. SURFACE TOPOGRAPHY DEPICTING CURRENT CONDITIONS IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN SURVEY INFORMATION IN ACCORDANCE WITH SECTION 01050.
2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ENVIRONMENTAL CONTROLS WITHIN THE CONSTRUCTION LIMITS IN ACCORDANCE WITH SECTION 01560.
3. THE CONTRACTOR SHALL IMPLEMENT EROSION & SURFACE WATER CONTROL MEASURES TO THE DEGREE NECESSARY TO PROMOTE & MAINTAIN DRAINAGE TO THE SOUTHEAST CORNER OF PHASES 10 AND 12.
4. THE CONTRACTOR SHALL REGRADE PHASES 8 & 9 TO MEET LINES & GRADES SHOWN FOR PHASE 8 & 9 SUBGRADE. STRUCTURAL FILL SHALL BE ADDED AS NECESSARY IN ACCORDANCE WITH SECTION 02214. PHASE 8 & 9 SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 02216. PHASE 8 & 9 SHALL BE PREPARED TO RECEIVE RECOMPACTED SOIL BARRIER IN ACCORDANCE WITH SECTION 02215. CELL FLOOR IS TO BE GRADED AS SHOWN. CELL SIDESLOPES ARE TO BE GRADED AT 3H:1V.
5. REFER TO SHEET 13A FOR A TABLE OF EXCAVATION CONSTRUCTION POINTS GRAPHICALLY SHOWN ON THIS SHEET.
6. PREQUALIFIED SOIL TO BE USED FOR PHASE 8 & 9 RECOMPACTED SOIL LINER IS LOCATED WITHIN PHASE 8 & 9 LIMITS. EXCESS SOIL IN PHASE 8 & 9 SHALL BE PLACED IN THE PREQUALIFIED SOIL STOCKPILE. IF ADDITIONAL SOIL IS REQUIRED TO COMPLETE THE PHASE 8 & 9 RECOMPACTED SOIL BARRIER, NOTIFY THE ENGINEER AS SOON AS POSSIBLE.
7. THE CONTRACTOR SHALL OBTAIN THE CQA CONSULTANT APPROVAL OF THE ENGINEERED SUBGRADE FOR PHASE 8 & 9 VIA ACCEPTABLE PROOF-ROLLING OF THE SUBGRADE BEFORE CONSTRUCTION OF THE RECOMPACTED CLAY LINER BEGINS.



PERIMETER ROAD AND CUSTOMER ACCESS

SCALE: NTS
NOTE: MINIMUM SEAMS FOR 8OZ WOVEN FABRIC TO BE 6" IF SOWN OR 18" IF OVERLAPPED.

SURVEY NOTES

1. TOPOGRAPHIC INFORMATION IS BASED ON AN AERIAL SURVEY FLOWN ON 10-20-2025 BY THE MANNIK & SMITH GROUP, INC.
2. CONTOUR INTERVAL = 1 FOOT.

NO.	DATE	BY	DESCRIPTION

1800 INDIAN WOOD CIRCLE
MAUMEE, OH 43537
TEL: 419.891.2222
FAX: 419.891.1855

PROJECT DATE: NOVEMBER 2025
PROJECT NO: DFCC0143
DRAWN BY: SRG
CHECKED BY: KCD

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PREPARED FOR
DEFIANCE COUNTY
BOARD OF
COMMISSIONERS
500 COURT STREET
DEFIANCE, OHIO 43512

SITE IMPROVEMENT PLAN FOR
DEFIANCE COUNTY
LANDFILL
13207 CANAL ROAD
DEFIANCE, OHIO 43512

EXCAVATION & GRADING PLAN

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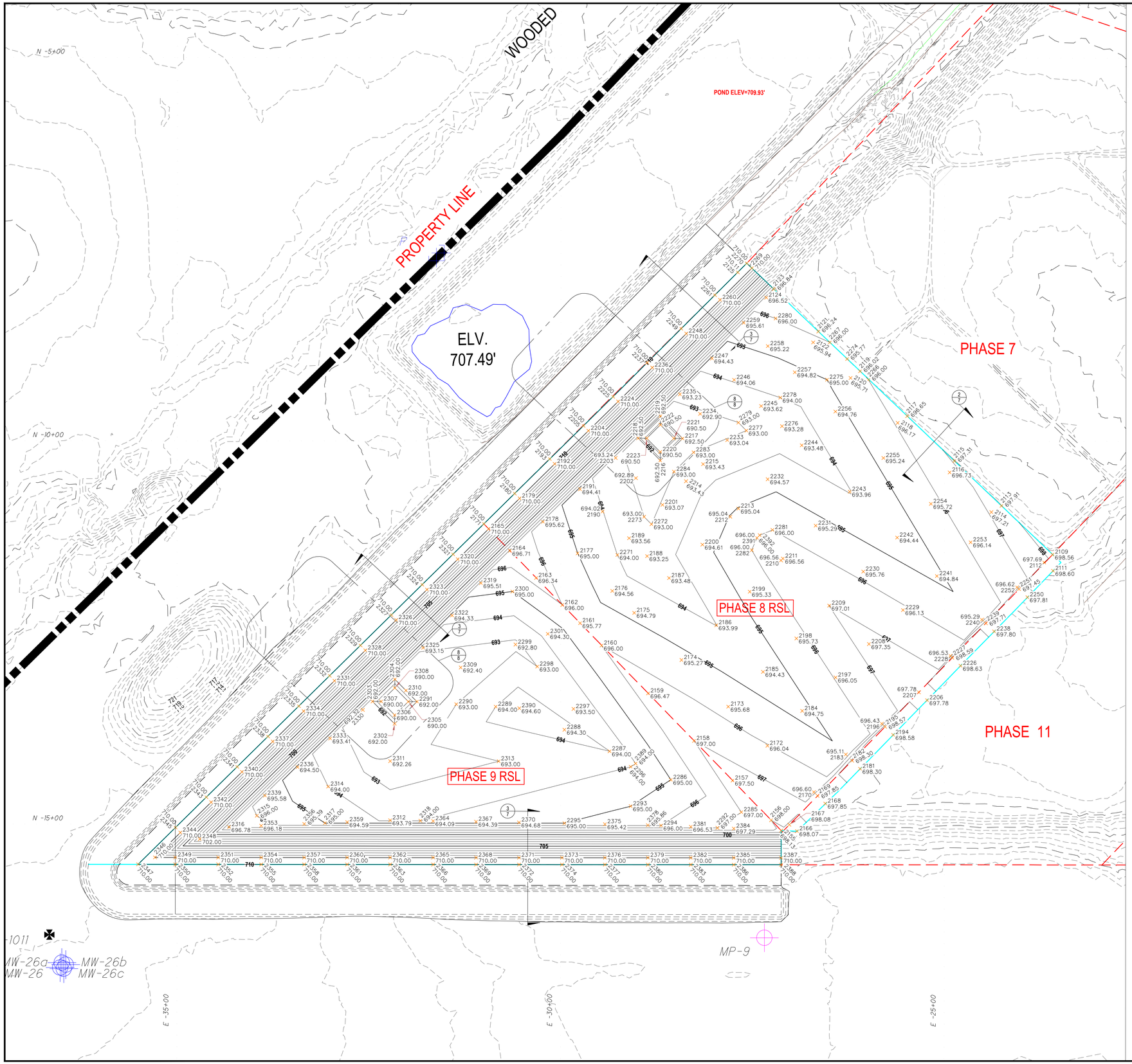

GRAPHIC SCALE

0 60' 120'

LEGEND

- EXISTING CONTOURS
- PROPOSED EXCAVATION CONTOURS
- PROPOSED RECOMPACTED SOIL LINER CONTOURS
- PROPOSED RECOMPACTED SOIL LINER SPOT ELEVATION
- PROPERTY BOUNDARY DEFIANCE COUNTY COMMISSIONERS
- EXISTING PERIMETER FENCE
- PROPOSED CONSTRUCTION LIMIT
- CELL PHASE LIMIT
- PHASE TRANSITION BOUNDARY
- MW-11 EXISTING GROUNDWATER MONITORING WELLS
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- MP-24 EXISTING GAS MONITORING PROBE
- GAS VENT EXISTING GAS VENT
- GPS-1013 GPS SURVEY BENCHMARK
- FM EXISTING LEACHATE FORCEMAIN

CONSTRUCTION NOTES

1. SURFACE TOPOGRAPHY DEPICTING CURRENT CONDITIONS IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN SURVEY INFORMATION IN ACCORDANCE WITH SECTION 01050.
2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ENVIRONMENTAL CONTROLS WITHIN THE CONSTRUCTION LIMITS IN ACCORDANCE WITH SECTION 01560.
3. THE CONTRACTOR SHALL IMPLEMENT EROSION & SURFACE WATER CONTROL MEASURES TO THE DEGREE NECESSARY TO PROMOTE & MAINTAIN DRAINAGE TO PREVENT SURFACE WATER RUN-ON WITHIN THE LIMITS OF WORK.
4. THE CONTRACTOR SHALL CONSTRUCT RECOMPACTED SOIL LINER IN PHASE 8 & 9 TO MEET THE LINES & GRADES SHOWN IN ACCORDANCE WITH SECTION 02215. THE RECOMPACTED SOIL LINER SHALL BE A MINIMUM OF 3' THICK.
5. REFER TO SHEET 13B FOR A TABLE OF RECOMPACTED SOIL LINER (RSL) CONSTRUCTION POINTS GRAPHICALLY SHOWN ON THIS SHEET.
6. SOIL FOR RECOMPACTED SOIL LINER SHALL BE TAKEN FROM BLOCKS OF PREQUALIFIED MATERIAL FROM WITHIN THE CELL FOOTPRINT.
7. THE CONTRACTOR SHALL FINISH THE SURFACE OF PHASE TO PROVIDE A SMOOTH BASE FOR INSTALLATION OF 60 MIL HDPE GEOMEMBRANE LINER IN ACCORDANCE WITH SECTION 02216 & SECTION 02242.
8. THE CONTRACTOR SHALL INSTALL TEXTURED HDPE LINER ON TOP OF THE RECOMPACTED SOIL LINER IN ACCORDANCE WITH SECTION 02242.
9. THE CONTRACTOR IS TO INSTALL GEOTEXTILE CUSHION LAYER ABOVE THE HDPE LINER IN ALL AREAS THAT WILL RECEIVE AN AGGREGATE DRAINAGE LAYER IN ACCORDANCE WITH SECTION 02243. THE GEOTEXTILE WEIGHT IS TO BE DETERMINED BASE ON AGGREGATE SELECTED.
10. THE HDPE LINER & CUSHION LAYER SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 02240.

SURVEY NOTES

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1800 INDIAN WOOD CIRCLE
MAUMEE, OH 43537
TEL: 419.891.2222
FAX: 419.891.1935

PROJECT DATE: NOVEMBER 2025
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DRAWN BY: SRG
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RECOMPACTED SOIL LINER & GEOMEMBRANE SUBGRADE PLAN

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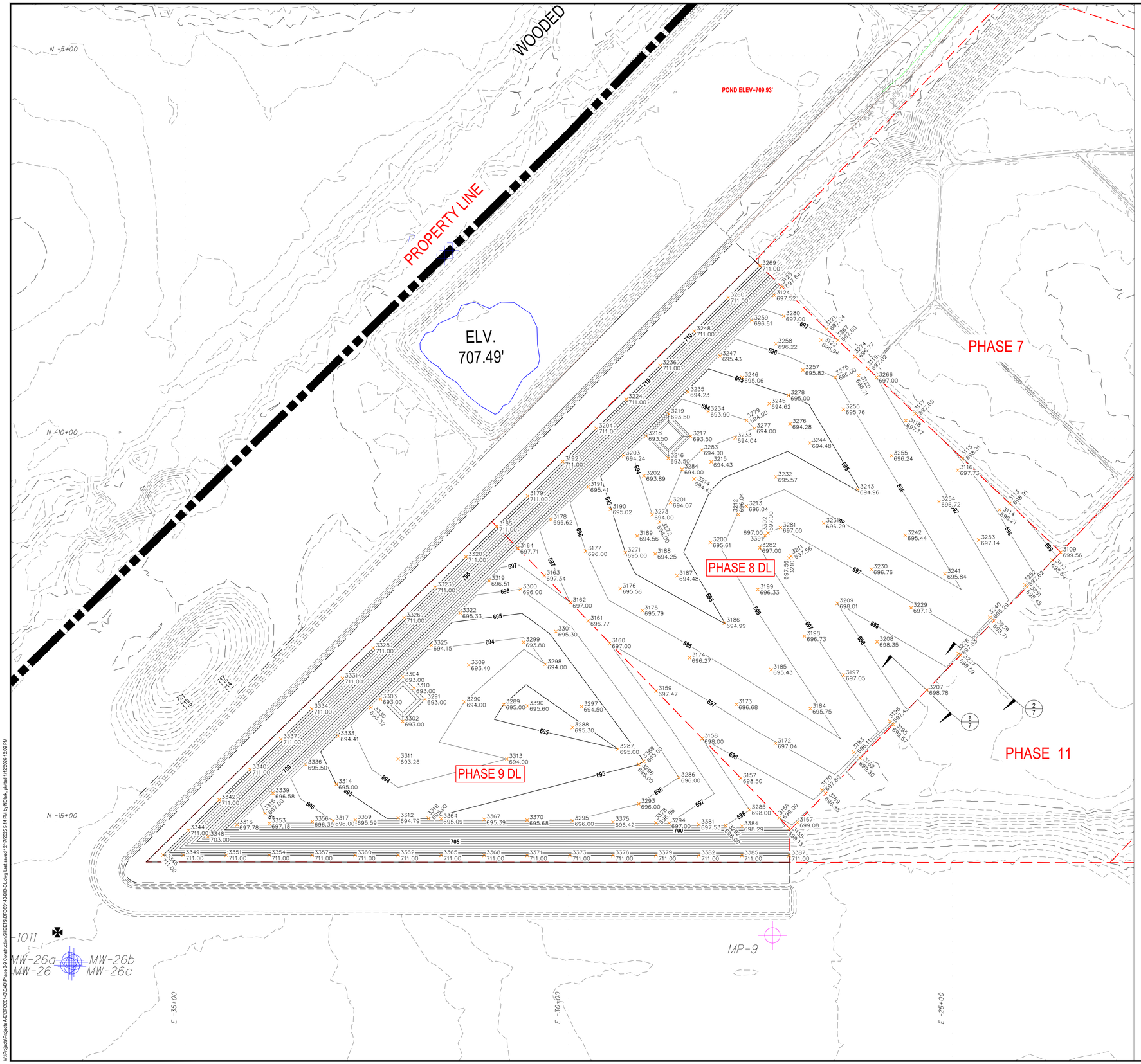

GRAPHIC SCALE

0 60' 120'

LEGEND

- EXISTING CONTOURS
- PROPOSED EXCAVATION CONTOURS
- PROPOSED DRAINAGE LINER CONTOURS
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- PROPOSED LEACHATE COLLECTION PIPE

CONSTRUCTION NOTES

1. SURFACE TOPOGRAPHY DEPICTING CURRENT CONDITIONS IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN SURVEY INFORMATION IN ACCORDANCE WITH SECTION 01050.
2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ENVIRONMENTAL CONTROLS WITHIN THE CONSTRUCTION LIMITS IN ACCORDANCE WITH SECTION 01560.
3. THE CONTRACTOR SHALL IMPLEMENT EROSION & SURFACE WATER CONTROL MEASURES TO THE DEGREE NECESSARY TO PROMOTE & MAINTAIN DRAINAGE TO PREVENT SURFACE WATER RUN-ON WITHIN THE LIMITS OF WORK.
4. THE CONTRACTOR SHALL PLACE A MIN. OF 1' OF AGGREGATE ON THE CELL FLOOR & SIDESLOPES IN ACCORDANCE WITH SECTION 02232.
5. REFER TO SHEET 13C FOR A TABLE OF DRAINAGE LINER (DL) CONSTRUCTION POINTS GRAPHICALLY SHOWN ON THIS SHEET.
6. THE CONTRACTOR SHALL INSTALL THE LEACHATE MATERIAL IN A MANNER THAT PREVENTS DAMAGE TO THE UNDERLYING LINER SYSTEM. THIS SHALL INCLUDE THE USE OF LOW GROUND PRESSURE EQUIPMENT IN AREAS WITH LESS THAN 5' OF SEPARATION FROM THE GEOMEMBRANE SURFACE.
7. THE CONTRACTOR SHALL PLACE AN 8 oz GEOTEXTILE FILTER ON TOP OF THE GRANULAR COLLECTION LAYER IN ACCORDANCE WITH SECTION 02245.
8. THE HDPE LINER, CUSHION LAYER, AND FILTER LAYER SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 02240.

SURVEY NOTES

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LEACHATE DRAINAGE LAYER PLAN

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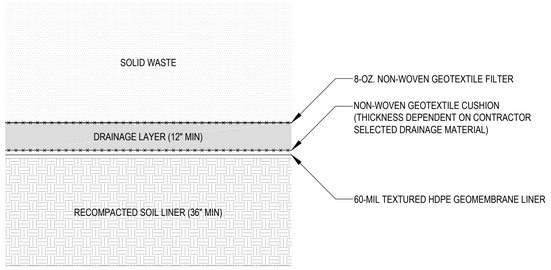
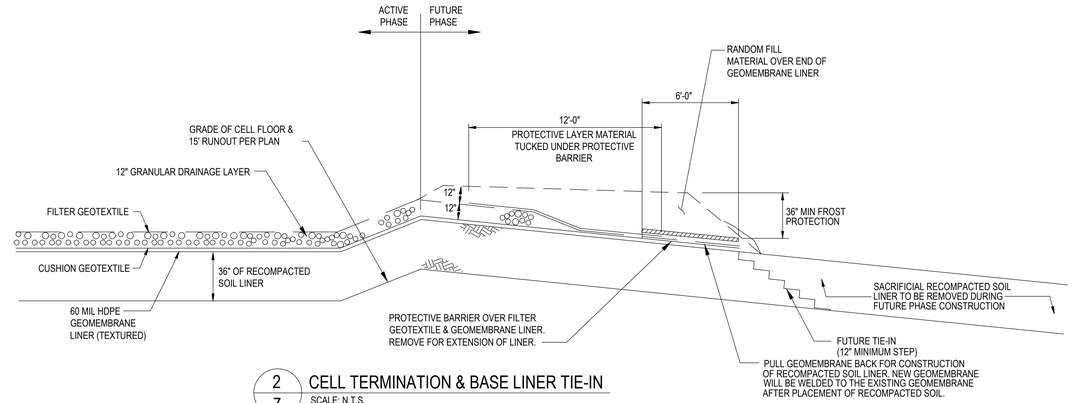


1/7 COMPOSITE LINER SYSTEM

SCALE: N.T.S.

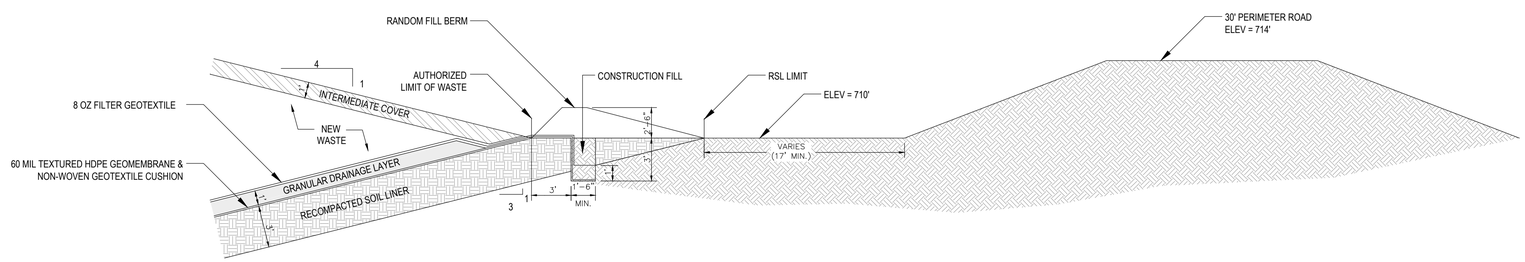
NOTES:
1. DRAINAGE LAYER SHALL BE AGGREGATE WITH A MINIMUM PERMEABILITY OF 1.0 CM/SEC.
2. DRAINAGE LAYER AGGREGATE SHALL HAVE LESS THAN 5% LOSS WHEN TESTED FOR CARBONATE CONTENT USING ASTM D 3042 AT PH OF 4.0.
3. DRAINAGE LAYER AGGREGATE SHALL CONTAIN LESS THAN 5% FINES PASSING #200 SIEVE PER ASTM C 136.



2/7 CELL TERMINATION & BASE LINER TIE-IN

SCALE: N.T.S.

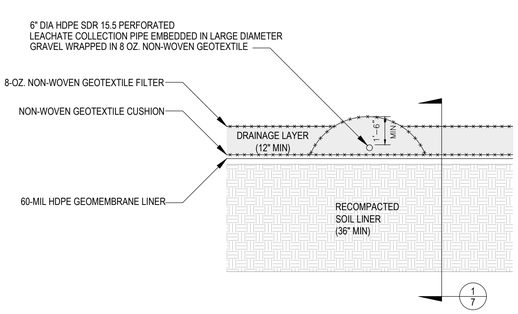
NOTES:
1. PROTECTIVE BARRIER MATERIAL IS AN ADDITIONAL LAYER OF GEOTEXTILE OR GEOMEMBRANE PLACED ON TOP OF THE FILTER GEOTEXTILE TO PROTECT & LIMIT CONTAMINATION OF FILTER LAYER.
2. PLYWOOD PLACED ON SOUTHERN TERMINATION



3/7 SIDESLOPE ANCHOR TRENCH

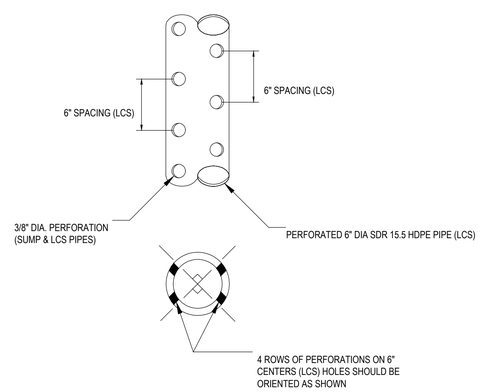
SCALE: N.T.S.

NOTE:
PERIMETER ROAD EARTHWORK NORTH OF PHASE 8 PARTIALLY COMPLETED DURING PREVIOUS PHASE 7 CONSTRUCTION



4/7 TYPICAL BOTTOM LINER LCS PIPE DETAIL

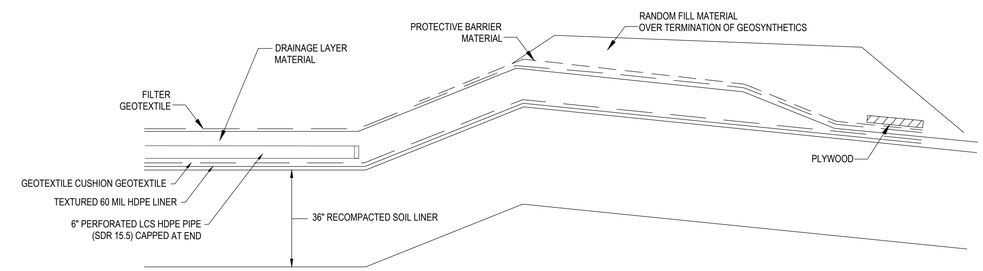
SCALE: N.T.S.



5/7 LCS PERFORATED PIPE

SCALE: N.T.S.

NOTE:
PERFORATED PIPES SHALL BE FITTED WITH A PIPE SOCK PRIOR TO PLACEMENT OF BACKFILL.



6/7 PIPE TERMINATION DETAIL

SCALE: N.T.S.

NOTES:
1. PROTECTIVE BARRIER MATERIAL IS AN ADDITIONAL LAYER OF GEOTEXTILE OR GEOMEMBRANE PLACED ON TOP OF THE FILTER GEOTEXTILE TO PROTECT AND LIMIT CONTAMINATION OF FILTER LAYER.

NO.	DATE	BY	DESCRIPTION

1800 INDIAN WOOD CIRCLE
MAUMEE, OH 43537
TEL: 419.891.2222
FAX: 419.891.1555

PROJECT DATE: NOVEMBER 2025
PROJECT NO: DFCC0143
DRAWN BY: SRG
CHECKED BY: KCD

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SITE IMPROVEMENT PLAN FOR
DEFIANCE COUNTY LANDFILL
13207 CANAL ROAD
DEFIANCE, OHIO 43512

DETAILS - LINER SYSTEM

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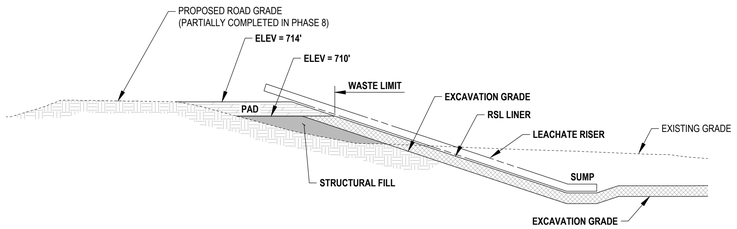
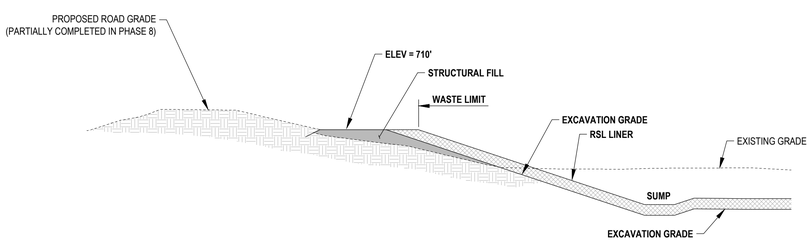
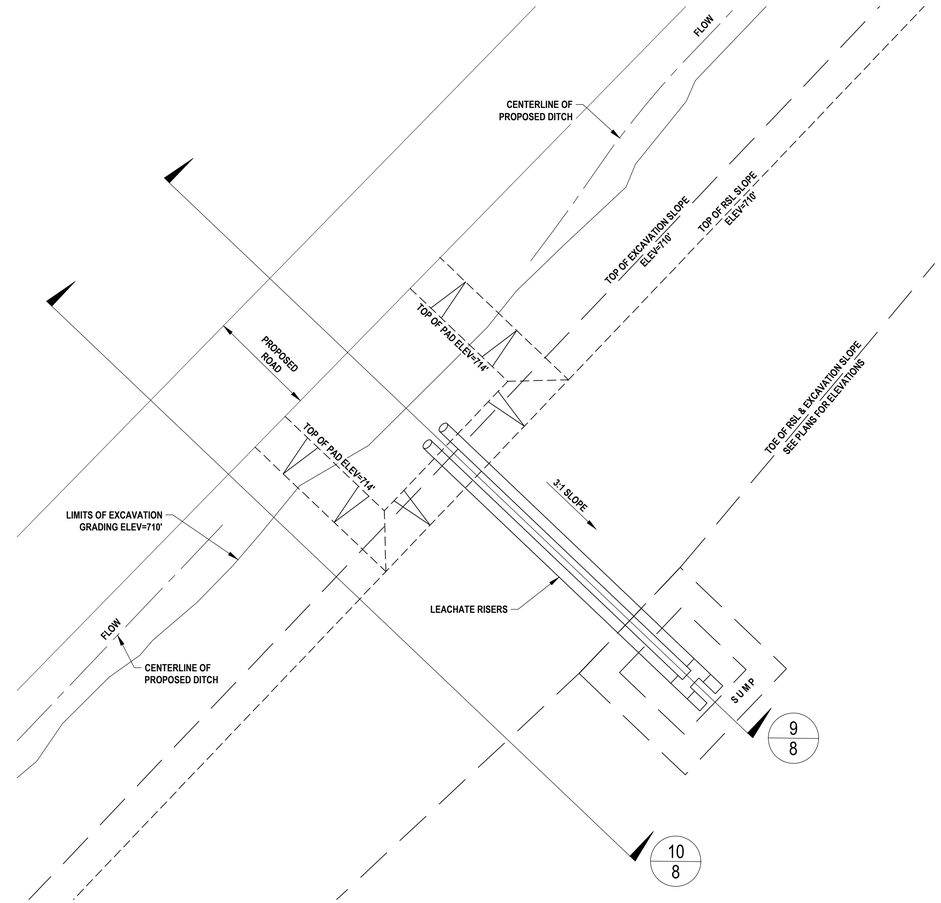


9/8 CELL CROSS SECTION @ SUMP
SCALE: N.T.S.



10/8 CELL CROSS SECTION OUTSIDE OF SUMP
SCALE: N.T.S.



8/8 AREA DETAIL
SCALE: N.T.S.

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DETAILS - CELL CONSTRUCTION

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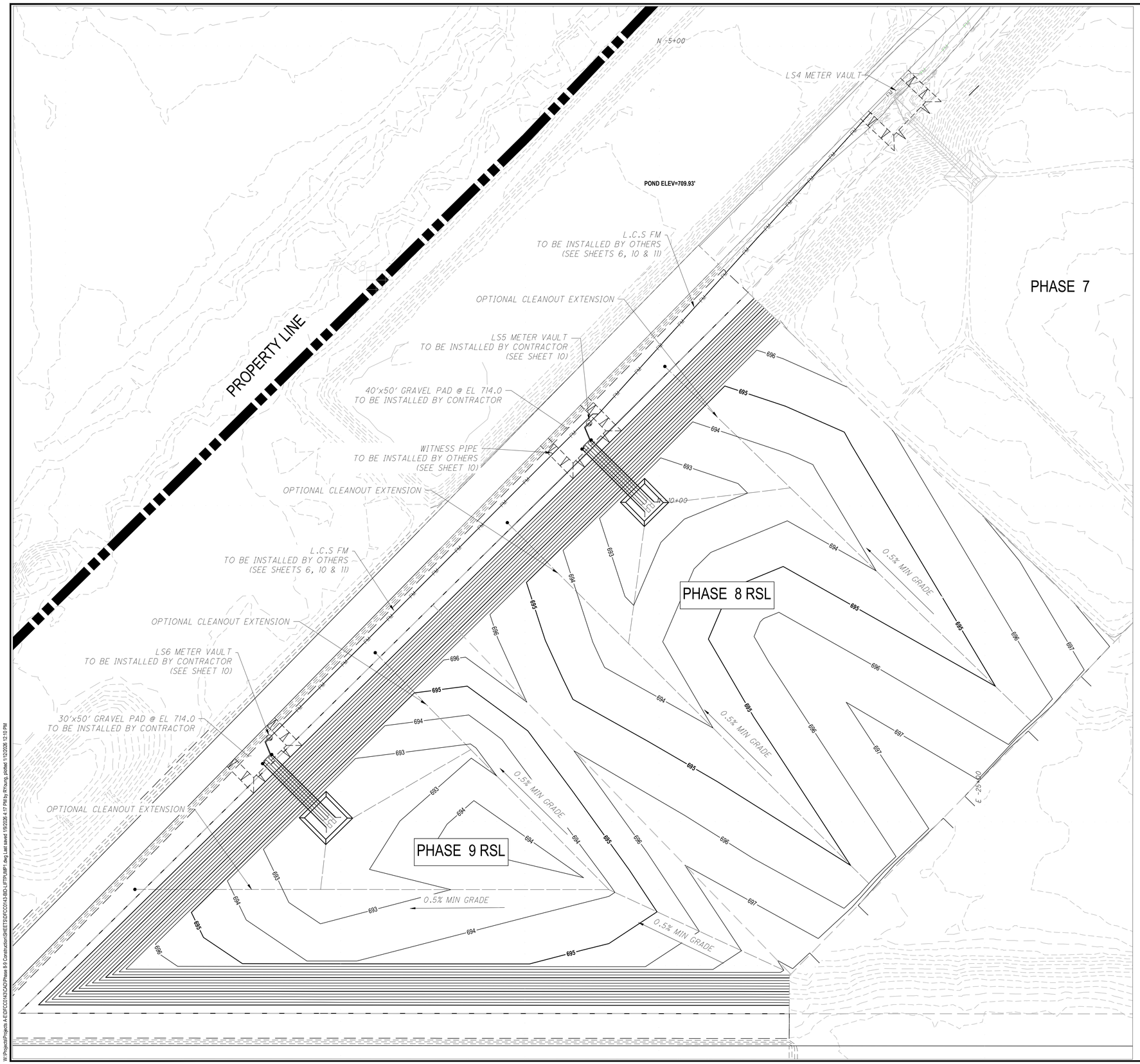

GRAPHIC SCALE

0 50' 100'

LEGEND

- EXISTING CONTOURS
- PROPERTY BOUNDARY DEFIANCE COUNTY COMMISSIONERS
- EXISTING PERIMETER FENCE
- PROPOSED CONSTRUCTION LIMIT
- CELL PHASE LIMIT
- PHASE TRANSITION BOUNDARY
- EXISTING GROUNDWATER MONITORING WELLS
- EXISTING PIEZOMETER
- EXISTING GAS MONITORING PROBE
- EXISTING GAS VENT
- GPS SURVEY BENCHMARK
- EXISTING LEACHATE FORCEMAIN
- PROPOSED LEACHATE FORCEMAIN
- PROPOSED CONTOURS
- PROPOSED PERFORATED L.C.S PIPE
- PROPOSED SOLID L.C.S PIPE
- PROPOSED CLEANOUT

CONSTRUCTION NOTES

1. SURFACE TOPOGRAPHY DEPICTING CURRENT CONDITIONS IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN SURVEY INFORMATION IN ACCORDANCE WITH SECTION 01050.
2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ENVIRONMENTAL CONTROLS WITHIN THE CONSTRUCTION LIMITS IN ACCORDANCE WITH SECTION 01560.
3. THE CONTRACTOR SHALL IMPLEMENT EROSION & SURFACE WATER CONTROL MEASURES TO THE DEGREE NECESSARY TO PROMOTE & MAINTAIN DRAINAGE TO PREVENT SURFACE WATER RUN-ON WITHIN THE LIMITS OF WORK.
4. THE CONTRACTOR SHALL PLACE A MINIMUM OF ONE FOOT OF GRAVEL ON THE CELL FLOOR AND SIDESLOPES IN ACCORDANCE WITH SECTION 02232.
5. THE CONTRACTOR SHALL INSTALL THE LEACHATE GRANULAR MATERIAL IN A MANNER THAT PREVENTS DAMAGE TO THE UNDERLYING LINER SYSTEM. THIS SHALL INCLUDE THE USE OF LOW GROUND PRESSURE EQUIPMENT IN AREAS WITH LESS THAN FIVE FEET OF SEPARATION FROM THE GEOMEMBRANE SURFACE.
6. THE CONTRACTOR SHALL PLACE A GEOTEXTILE FILTER ON TOP OF THE GRANULAR COLLECTION LAYER IN ACCORDANCE WITH SECTION 02245.
7. THE CONTRACTOR SHALL INSTALL A PERFORATED CAP AT THE HIGH POINT OF THE L.C.S PIPES.
8. THE CONTRACTOR SHALL INSTALL ALL LEACHATE COLLECTION SYSTEM COMPONENTS AS SHOWN ON THIS SHEET. OWNER TO INSTALL PUMP, FLOW METER, AND ASSOCIATED COMPONENTS.
9. THE HDPE LINER AND CUSHION LAYER SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 02240.
10. AREA TO BE SEEDED IN ACCORDANCE WITH SECTIONS 02920 AND 02936 ONCE FINAL GRADING IS COMPLETE.

NO.	DATE	BY	DESCRIPTION

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PROJECT NO: DFC20143
DRAWN BY: AGP
CHECKED BY: PM

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LEACHATE COLLECTION AND REMOVAL PLAN

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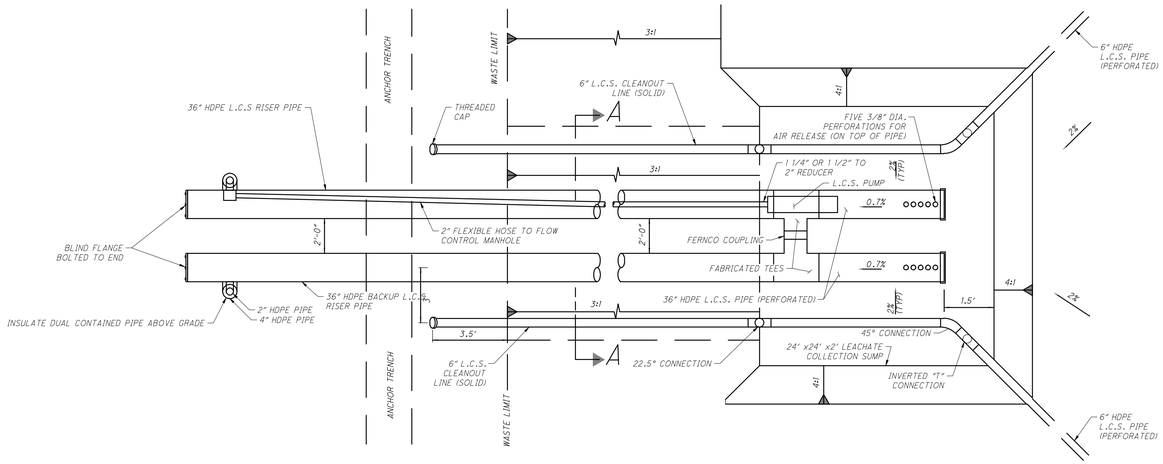
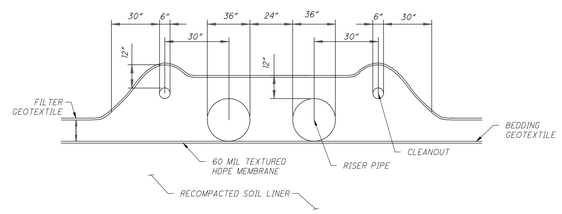
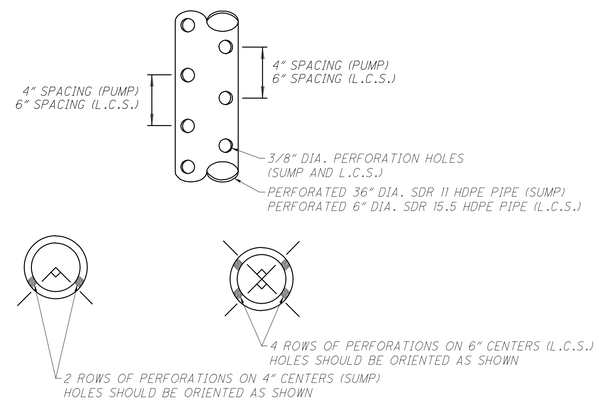


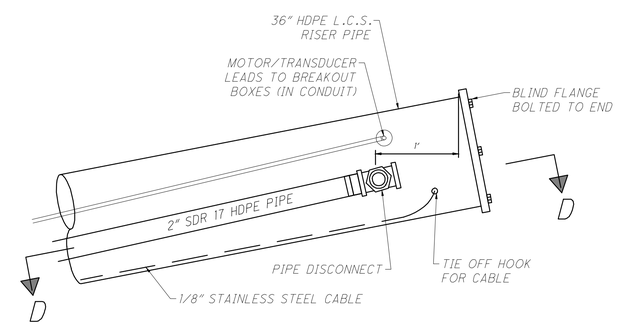
1/10 PRIMARY L.C.S. SUMP PLAN VIEW
SCALE: N.T.S. BY CONTRACTOR
*SEE SPEC FOR PUMP MODEL INFORMATION LS5/6 HAVE DIFFERENT PUMP SELECTIONS



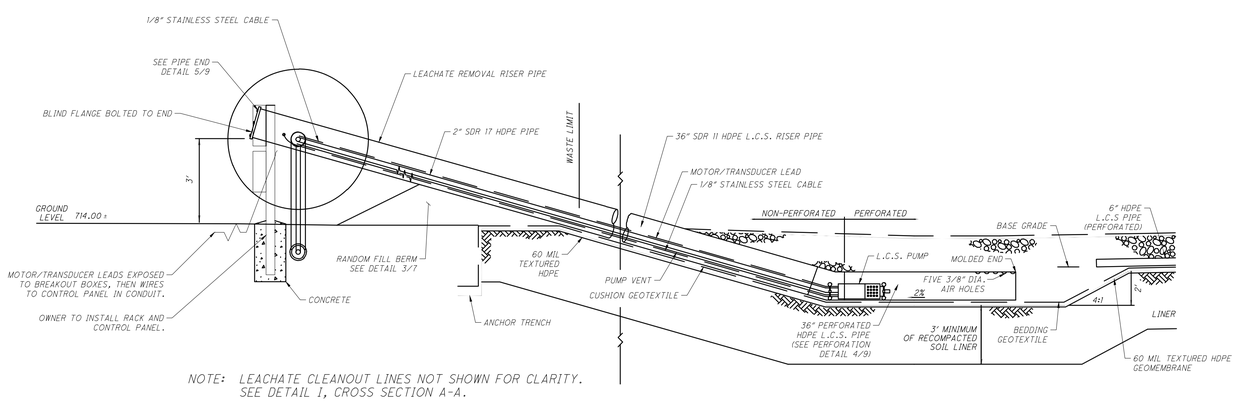
A-A/10 SECTION OF L.C.S. RISER PIPE AND CLEANOUTS
SCALE: N.T.S.



4/10 L.C.S. PERFORATED PIPE
SCALE: N.T.S.



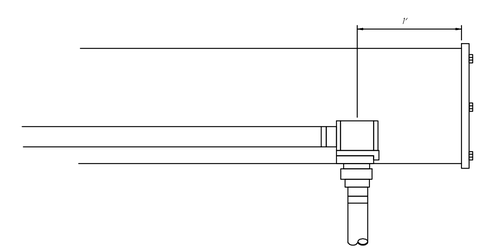
5/10 L.C.S RISER PIPE END
SCALE: N.T.S.



NOTE: LEACHATE CLEANOUT LINES NOT SHOWN FOR CLARITY. SEE DETAIL 1, CROSS SECTION A-A.

3/10 LEACHATE REMOVAL RISER PIPE END
SCALE: N.T.S. BY CONTRACTOR

2/10 L.C.S. PUMP PROFILE
SCALE: N.T.S.
*SEE SPEC FOR PUMP MODEL INFORMATION LS5/6 HAVE DIFFERENT PUMP SELECTIONS



D-D/10 SECTION OF L.C.S RISER PIPE END
SCALE: N.T.S. BY OWNER

NO.	DATE	BY	DESCRIPTION

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FAX: 419.891.1555

PROJECT DATE: NOVEMBER 2025
PROJECT NO: DFC0143
DRAWN BY: AGP
CHECKED BY: PM

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DETAILS - LEACHATE COLLECTION AND REMOVAL SYSTEMS 1

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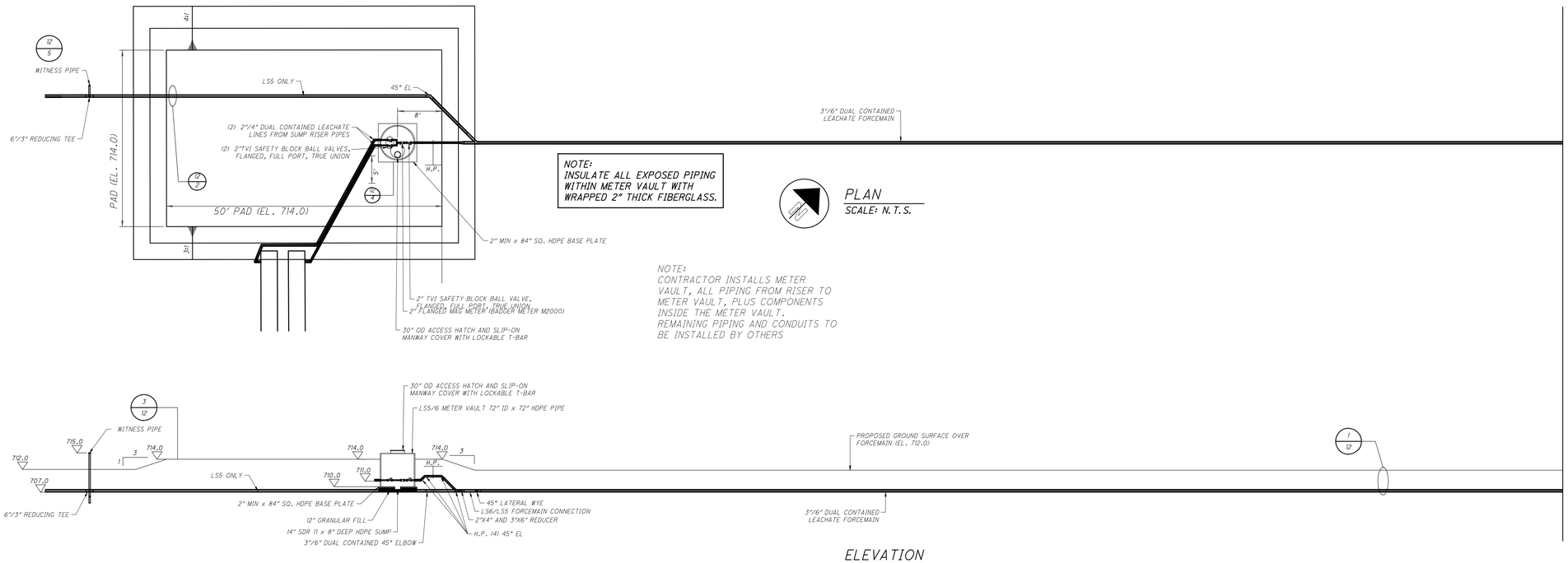

MATCHLINE

1 / 11 LEACHATE SUMPS 5/6 METER VAULT
SCALE: N.T.S.

NO.	DATE	BY	DESCRIPTION

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DETAILS - LEACHATE COLLECTION AND REMOVAL SYSTEMS 2

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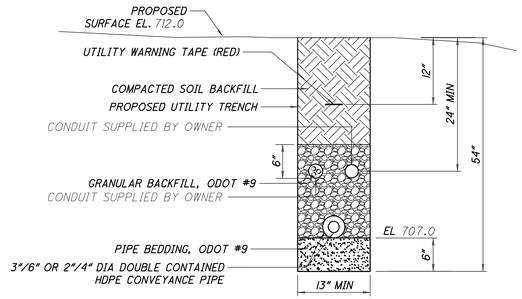
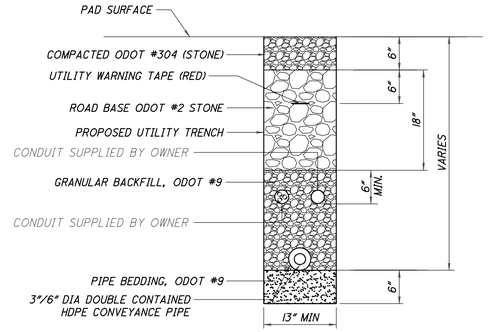


NOTES:

1. SEED, FERTILIZE, AND MULCH DISTURBED EARTH TO RESTORE VEGETATION. ANCHOR MULCH BY CRIMPING OR APPLYING TACKIFIER OR NETTING. MULCH MUST BE THICK ENOUGH TO PREVENT EROSION UNTIL THE VEGETATION HAS BEEN RESTORED.
2. ELECTRICAL CONTRACTOR TO COORDINATE WITH DEFIANCE COUNTY LANDFILL I.T. CONTRACTOR FOR FIBER CONDUIT INSTALL.

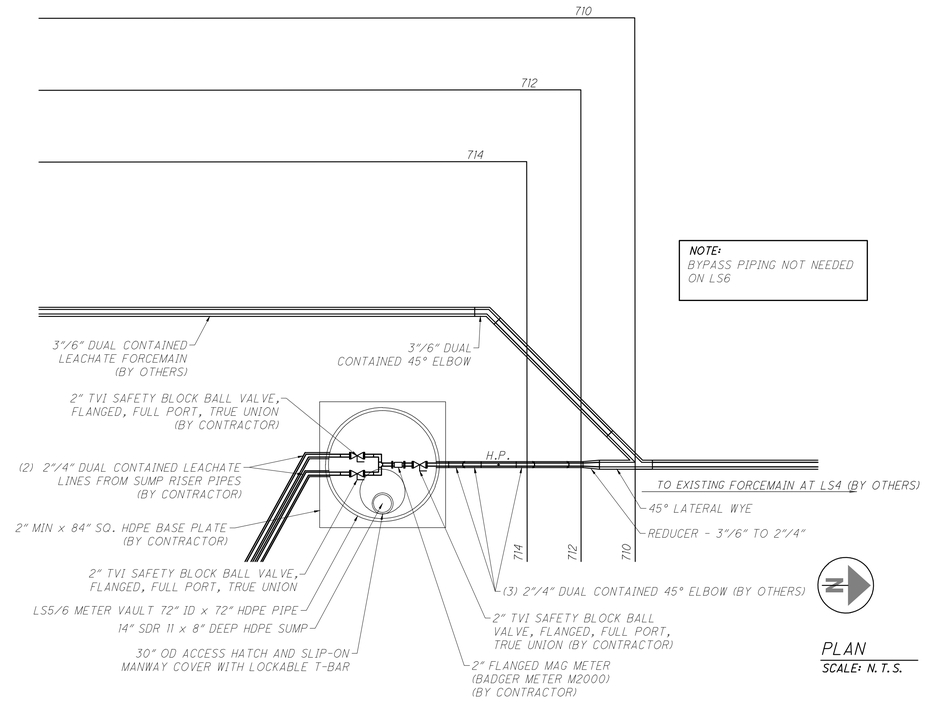
1/12 TYPICAL UTILITY TRENCH OUTSIDE OF STONE PAD
SCALE: N.T.S. BY OTHERS



NOTES:

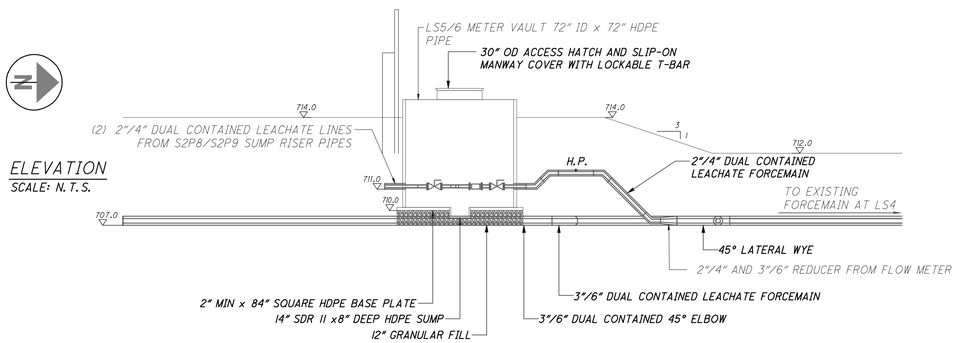
1. COMPACT BEDDING AND BACKFILL TO 96% MAXIMUM DRY DENSITY EXCEPT LEAVE THE 2" UNDER THE CENTER OF THE 6" PIPE SPAN UNCOMPACTED.
2. ELECTRICAL CONTRACTOR TO COORDINATE WITH DEFIANCE COUNTY LANDFILL I.T. CONTRACTOR FOR FIBER CONDUIT INSTALL.

2/12 UTILITY TRENCH AT PHASE 8&9 PUMP CONTROL PAD
SCALE: N.T.S. BY OTHERS



NOTE:
BYPASS PIPING NOT NEEDED ON LS6

PLAN
SCALE: N.T.S.

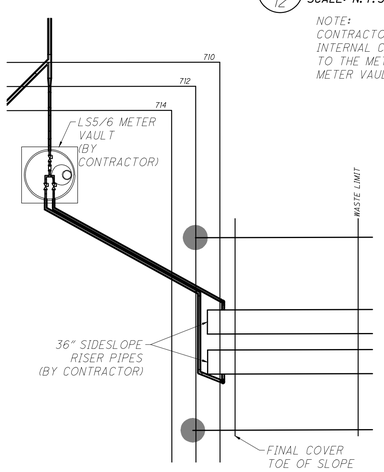


ELEVATION
SCALE: N.T.S.

4/12 ENLARGED PLAN - LS5/6 METER VAULT
SCALE: N.T.S.

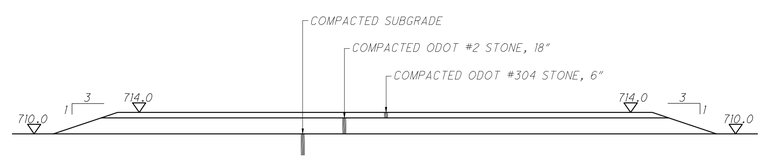
NOTE:
CONTRACTOR TO INSTALL METER VAULT, INTERNAL COMPONENTS AND ALL PIPES LEADING TO THE METER VAULT. PIPES EXITING THE METER VAULT TO BE INSTALLED BY OTHERS.

NOTE:
INSULATE ALL EXPOSED PIPING WITHIN METER VAULT WITH WRAPPED 2" THICK FIBERGLASS.

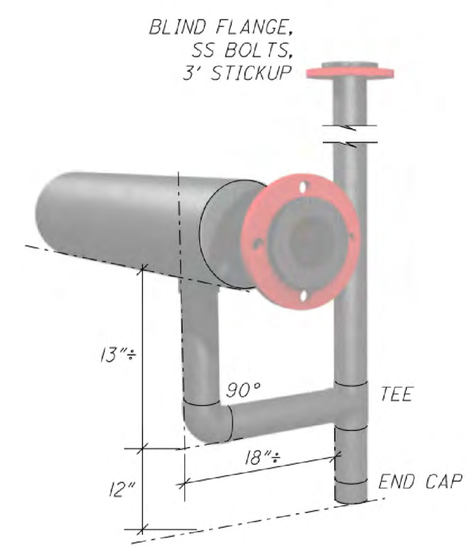


6/12 SIDESLOPE RISER PIPE PLAN
SCALE: N.T.S. BY OWNER

NOTE:
CONTRACTOR TO INSTALL METER VAULT AND ALL PIPES LEADING TO THE METER VAULT FROM SIDESLOPE RISER PLUS THE COMPONENTS INSIDE THE METER VAULT. STUB THE EXIT PIPE, REMAINING PIPE OUTSIDE THE METER VAULT TO BE INSTALLED BY OTHERS.



3/12 PHASE 8&9 PUMP CONTROL PAD
SCALE: N.T.S. BY CONTRACTOR



5/12 3"/6" WITNESS PIPE ISOMETRIC
SCALE: N.T.S. (BY OTHERS)

NO.	DATE	BY	DESCRIPTION

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DETAILS - LEACHATE COLLECTION AND REMOVAL SYSTEMS 3

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POINT	NORTHING	EASTING	SUBGRADE ELEVATION
1109	−1,147.40	−2,358.99	695.41
1111	−1,168.61	−2,358.47	695.43
1112	−1,157.59	−2,370.04	694.59
1113	−1,083.96	−2,425.64	694.73
1114	−1,092.12	−2,438.81	694.03
1115	−1,025.44	−2,487.11	694.10
1116	−1,040.35	−2,493.20	693.60
1117	−966.92	−2,548.59	693.50
1118	−975.73	−2,561.08	693.03
1119	−908.40	−2,610.07	692.88
1120	−917.21	−2,622.55	692.54
1121	−856.59	−2,664.48	693.12
1122	−870.86	−2,671.25	692.76
1123	−801.37	−2,722.49	693.73
1124	−812.58	−2,732.47	693.41
1125	−779.56	−2,769.54	709.95
1155	−1,507.58	−2,712.58	695.13
1156	−1,494.13	−2,725.65	695.00
1157	−1,442.40	−2,775.91	694.50
1158	−1,390.67	−2,826.16	694.00
1159	−1,328.81	−2,886.08	693.47
1160	−1,266.45	−2,946.85	693.00
1161	−1,237.22	−2,974.83	692.77
1162	−1,213.55	−2,997.95	693.00
1163	−1,178.24	−3,032.12	693.34
1164	−1,142.93	−3,066.29	693.71
1165	−1,114.36	−3,094.01	707.00
1166	−1,508.42	−2,691.89	695.07
1167	−1,500.00	−2,701.89	695.08
1168	−1,472.34	−2,655.05	694.85
1169	−1,462.28	−2,665.13	694.85
1170	−1,457.39	−2,670.03	693.60
1171	−1,107.84	−3,100.33	710.00
1172	−1,396.98	−2,730.59	693.04
1173	−1,346.04	−2,781.65	692.68
1174	−1,285.23	−2,842.60	692.27
1175	−1,223.74	−2,904.25	691.79
1176	−1,195.18	−2,932.87	691.56
1177	−1,146.15	−2,978.06	692.00
1178	−1,105.03	−3,023.24	692.62
1179	−1,074.62	−3,053.73	707.00
1180	−1,068.21	−3,060.16	710.00
1181	−1,426.97	−2,609.68	695.30
1182	−1,416.40	−2,620.27	695.30
1183	−1,408.29	−2,628.40	692.11
1184	−1,351.55	−2,685.28	691.75
1185	−1,300.62	−2,736.33	691.43
1186	−1,239.81	−2,797.29	690.99
1187	−1,178.32	−2,858.93	690.48
1188	−1,149.76	−2,887.56	690.25
1189	−1,126.38	−2,910.99	690.56
1190	−1,091.68	−2,945.77	691.02
1191	−1,062.55	−2,974.98	691.41
1192	−1,029.56	−3,008.05	707.00
1193	−1,023.14	−3,014.48	710.00
1194	−1,382.82	−2,566.67	695.58
1195	−1,372.22	−2,577.29	695.57
1196	−1,368.14	−2,581.38	693.43
1197	−1,307.92	−2,641.75	693.05
1198	−1,256.99	−2,692.80	692.73
1199	−1,196.18	−2,753.76	692.33
1200	−1,134.68	−2,815.41	691.61
1201	−1,082.75	−2,867.47	690.07
1202	−1,048.05	−2,902.25	689.89
1203	−1,021.74	−2,928.62	690.24
1204	−986.28	−2,964.17	707.00
1205	−979.86	−2,970.61	710.00
1206	−1,337.47	−2,522.48	694.78
1207	−1,327.04	−2,533.27	694.78
1208	−1,264.29	−2,598.22	694.35
1209	−1,214.17	−2,650.09	694.01
1210	−1,155.33	−2,713.02	693.56
1211	−1,152.92	−2,710.61	693.56
1212	−1,098.28	−2,779.09	692.04
1213	−1,087.65	−2,768.49	692.04
1214	−1,052.08	−2,836.87	690.43
1215	−1,029.82	−2,814.66	690.43
1216	−1,025.15	−2,870.55	689.50
1217	−996.33	−2,841.39	689.50
1218	−995.99	−2,899.37	689.50
1219	−967.18	−2,870.19	689.50
1220	−1,013.84	−2,870.48	687.50
1221	−996.26	−2,852.70	687.50
1222	−978.49	−2,870.26	687.50
1223	−996.06	−2,888.05	687.50
1224	−948.10	−2,925.46	707.00
1225	−941.78	−2,932.01	710.00
1226	−1,292.57	−2,478.83	695.63
1227	−1,282.09	−2,489.66	695.59
1228	−1,279.66	−2,492.18	693.53
1229	−1,219.92	−2,553.97	693.13
1230	−1,169.79	−2,605.82	692.76
1231	−1,109.93	−2,667.73	692.29
1232	−1,049.40	−2,730.33	691.57
1233	−998.28	−2,783.20	690.04
1234	−964.13	−2,818.53	689.90
1235	−938.71	−2,844.82	690.23
1236	−903.78	−2,880.94	707.00
1237	−897.38	−2,887.56	710.00
1238	−1,247.71	−2,435.08	694.80
1239	−1,237.12	−2,446.03	694.71
1240	−1,232.24	−2,451.08	692.29
1241	−1,175.56	−2,509.71	691.84
1242	−1,125.42	−2,561.56	691.44
1243	−1,065.57	−2,623.47	690.96
1244	−1,005.04	−2,686.07	690.48
1245	−953.92	−2,738.94	690.62
1246	−919.76	−2,774.27	691.06
1247	−891.88	−2,803.11	691.43
1248	−859.45	−2,836.65	707.00
1249	−853.07	−2,843.25	710.00
1250	−1,203.11	−2,391.78	694.81
1251	−1,192.50	−2,402.75	694.45
1252	−1,190.05	−2,405.28	693.62
1253	−1,131.54	−2,465.80	693.14
1254	−1,081.41	−2,517.65	692.72
1255	−1,021.55	−2,579.56	692.24
1256	−961.02	−2,642.16	691.76
1257	−909.90	−2,695.04	691.82
1258	−875.75	−2,730.36	692.22
1259	−845.42	−2,761.73	692.61
1260	−815.47	−2,792.71	707.00
1261	−809.11	−2,799.29	710.00
1266	−919.60	−2,599.15	693.00
1267	−870.81	−2,649.55	693.00
1269	−773.98	−2,751.26	707.00
1270	−767.70	−2,757.87	710.00
1271	−1,148.21	−2,926.35	691.00
1272	−1,108.22	−2,881.89	690.00
1273	−1,098.50	−2,891.50	690.00
1274	−892.39	−2,626.88	692.77
1275	−919.55	−2,653.13	692.00
1276	−980.20	−2,711.76	690.28
1277	−985.99	−2,758.29	690.00
1278	−942.99	−2,713.99	691.00
1279	−975.53	−2,768.63	690.00
1280	−839.62	−2,720.19	693.00
1281	−1,115.54	−2,724.10	693.00
1282	−1,141.86	−2,751.17	693.00
1283	−1,014.34	−2,827.01	690.00
1284	−1,039.56	−2,852.53	690.00
1285	−1,483.73	−2,764.49	694.00
1286	−1,441.51	−2,856.35	692.00
1287	−1,404.35	−2,936.20	691.00
1288	−1,376.31	−2,995.10	691.30
1289	−1,346.31	−3,084.76	691.00
1290	−1,343.06	−3,136.06	690.00
1291	−1,339.80	−3,187.35	689.00
1292	−1,504.20	−2,795.60	694.00
1293	−1,475.97	−2,908.73	692.00
1294	−1,501.20	−2,869.06	693.00
1295	−1,498.20	−2,995.08	692.00
1296	−1,424.63	−2,908.72	691.00
1297	−1,349.14	−2,983.40	690.50
1298	−1,293.93	−3,030.60	690.00
1299	−1,265.20	−3,058.94	689.80
1300	−1,196.07	−3,062.91	692.00
1301	−1,251.26	−3,016.83	691.30
1302	−1,368.63	−3,216.50	689.00
1303	−1,339.48	−3,245.33	689.00
1304	−1,310.64	−3,216.17	689.00
1305	−1,339.74	−3,198.66	687.00
1306	−1,357.32	−3,216.44	687.00
1307	−1,339.54	−3,234.02	687.00
1308	−1,321.96	−3,216.23	687.00
1309	−1,295.21	−3,130.35	689.40
1310	−1,325.22	−3,201.76	689.00
1311	−1,417.44	−3,222.22	689.26
1312	−1,494.57	−3,222.23	690.79
1313	−1,417.44	−3,080.75	690.00
1314	−1,450.59	−3,303.02	691.00
1315	−1,488.70	−3,395.91	693.00
1316	−1,503.56	−3,432.13	693.78
1317	−1,498.21	−3,307.17	692.00
1318	−1,495.20	−3,182.81	691.00
1319	−1,185.16	−3,103.99	692.51
1320	−1,154.00	−3,134.17	707.00
1321	−1,147.48	−3,140.50	710.00
1322	−1,227.34	−3,141.69	691.33
1323	−1,193.64	−3,174.34	707.00
1324	−1,187.12	−3,180.67	710.00
1325	−1,269.52	−3,179.40	690.15
1326	−1,233.28	−3,214.51	707.00
1327	−1,226.75	−3,220.84	710.00
1328	−1,272.92	−3,254.67	707.00
1329	−1,266.39	−3,261.01	710.00
1330	−1,350.60	−3,257.99	689.32
1331	−1,312.58	−3,294.83	707.00
1332	−1,306.02	−3,301.18	710.00
1333	−1,387.89	−3,300.44	690.41
1334	−1,352.20	−3,335.01	707.00
1335	−1,345.66	−3,341.35	710.00
1336	−1,425.17	−3,342.88	691.50
1337	−1,391.82	−3,375.19	707.00
1338	−1,385.29	−3,381.52	710.00
1339	−1,462.46	−3,385.33	692.58
1340	−1,431.44	−3,415.38	707.00
1341	−1,424.93	−3,421.69	710.00
1342	−1,471.06	−3,455.56	707.00
1343	−1,464.57	−3,461.86	710.00
1344	−1,510.70	−3,495.74	707.00
1345	−1,504.20	−3,502.03	710.00
1346	−1,543.16	−3,528.63	707.00
1347	−1,552.21	−3,550.71	710.00
1348	−1,519.20	−3,470.23	699.00
1349	−1,543.16	−3,502.23	707.00
1350	−1,552.21	−3,502.23	710.00
1351	−1,543.18	−3,446.23	707.00
1352	−1,552.21	−3,446.23	710.00
1353	−1,501.77	−3,390.23	693.18
1354	−1,543.18	−3,390.23	707.00
1355	−1,552.21	−3,390.23	710.00
1356	−1,499.37	−3,334.23	692.39
1357	−1,543.17	−3,334.23	707.00
1358	−1,552.21	−3,334.23	710.00
1359	−1,496.97	−3,278.23	691.59
1360	−1,543.17	−3,278.23	707.00
1361	−1,552.21	−3,278.23	710.00
1362	−1,543.16	−3,222.23	707.00
1363	−1,552.21	−3,222.23	707.00
1364	−1,495.47	−3,166.23	691.09
1365	−1,543.16	−3,166.23	707.00
1366	−1,552.21	−3,166.23	710.00
1367	−1,496.36	−3,110.23	691.39
1368	−1,543.17	−3,110.23	707.00
1369	−1,552.21	−3,110.23	710.00
1370	−1,497.26	−3,054.23	691.68
1371	−1,543.18	−3,054.23	707.00
1372	−1,552.21	−3,054.23	710.00
1373	−1,543.19	−2,998.23	707.00
1374	−1,552.21	−2,998.23	710.00
1375	−1,499.46	−2,942.23	692.42
1376	−1,543.19	−2,942.23	707.00
1377	−1,552.21	−2,942.23	710.00
1378	−1,500.79	−2,886.23	692.86
1379	−1,543.19	−2,886.23	707.00
1380	−1,552.21	−2,886.23	710.00
1381	−1,502.78	−2,830.23	693.53
1382	−1,543.18	−2,830.23	707.00
1383	−1,552.21	−2,830.23	710.00
1384	−1,505.07	−2,774.23	694.29
1385	−1,543.17	−2,774.23	707.00
1386	−1,552.21	−2,774.23	710.00
1387	−1,543.16	−2,712.61	707.00
1388	−1,552.21	−2,712.61	710.00
1389	−1,420.40	−2,902.29	691.00
1390	−1,348.26	−3,053.99	691.60
1391	−1,126.01	−2,744.39	693.00
1392	−1,122.41	−2,740.75	693.00

NO.	DATE	BY	DESCRIPTION

1800 INDIAN WOOD CIRCLE
MAUMEE, OH 43537
TEL: 419.891.2222
FAX: 419.891.1555

PROJECT DATE: NOVEMBER 2025
PROJECT NO: DFC0143
DRAWN BY: SRG
CHECKED BY: KCD

Mannik Smith GROUP
TECHNICAL SKILL. CREATIVE SPIRIT.
www.MannikSmithGroup.com

PREPARED FOR
DEFIANCE COUNTY
BOARD OF
COMMISSIONERS
500 COURT STREET
DEFIANCE, OHIO 43512

SITE IMPROVEMENT PLAN FOR
DEFIANCE COUNTY
LANDFILL
13207 CANAL ROAD
DEFIANCE, OHIO 43512

CONSTRUCTION POINTS
SUBGRADE

W:\Projects\Projects A-E\DFC0143\CAD\Phase 8-9 Construction\SHEETS\DFC0143-BID-POINTS.dwg Last saved 12/16/2025 2:18 PM by NClark, plotted 11/12/2026 12:11 PM

POINT	NORTHING	EASTING	TOP OF RSL ELEVATION
2109	-1,147.40	-2,358.99	698.57
2111	-1,168.61	-2,358.47	698.60
2112	-1,157.59	-2,370.04	697.69
2113	-1,083.96	-2,425.64	697.91
2114	-1,092.12	-2,438.81	697.21
2115	-1,025.44	-2,487.11	697.31
2116	-1,040.35	-2,493.20	696.73
2117	-966.92	-2,548.59	696.65
2118	-975.73	-2,561.08	696.17
2119	-908.40	-2,610.07	696.02
2120	-917.21	-2,622.55	695.71
2121	-856.59	-2,664.48	696.24
2122	-870.86	-2,671.25	695.94
2123	-801.37	-2,722.49	696.84
2124	-812.58	-2,732.47	696.52
2125	-779.56	-2,769.54	710.11
2155	-1,507.58	-2,712.58	698.13
2156	-1,494.13	-2,725.65	698.00
2157	-1,442.40	-2,775.91	697.50
2158	-1,390.67	-2,826.16	697.00
2159	-1,328.81	-2,886.08	696.47
2160	-1,266.45	-2,946.85	696.00
2161	-1,237.22	-2,974.83	695.77
2162	-1,213.55	-2,997.95	696.00
2163	-1,178.24	-3,032.12	696.34
2164	-1,142.93	-3,066.29	696.71
2165	-1,114.36	-3,094.01	710.00
2166	-1,508.42	-2,691.89	698.07
2167	-1,500.00	-2,701.89	698.08
2168	-1,472.34	-2,655.05	697.85
2169	-1,462.28	-2,665.13	697.85
2170	-1,457.39	-2,670.03	696.60
2171	-1,107.84	-3,100.33	710.00
2172	-1,396.98	-2,730.59	696.04
2173	-1,346.04	-2,781.65	695.68
2174	-1,285.23	-2,842.60	695.27
2175	-1,223.74	-2,904.25	694.79
2176	-1,195.18	-2,932.87	694.56
2177	-1,146.15	-2,978.06	695.00
2178	-1,105.03	-3,023.24	695.62
2179	-1,074.62	-3,053.73	710.00
2180	-1,068.21	-3,060.16	710.00
2181	-1,426.97	-2,609.68	698.30
2182	-1,416.40	-2,620.27	698.30
2183	-1,408.29	-2,628.40	695.11
2184	-1,351.55	-2,685.28	694.75
2185	-1,300.62	-2,736.33	694.43
2186	-1,239.81	-2,797.29	693.99
2187	-1,178.32	-2,858.93	693.48
2188	-1,149.76	-2,887.56	693.25
2189	-1,126.38	-2,910.99	693.56
2190	-1,091.68	-2,945.77	694.02
2191	-1,062.55	-2,974.98	694.41
2192	-1,029.56	-3,008.05	710.00
2193	-1,023.14	-3,014.48	710.00
2194	-1,382.82	-2,566.67	698.58
2195	-1,372.22	-2,577.29	698.57
2196	-1,368.14	-2,581.38	696.43
2197	-1,307.92	-2,641.75	696.05
2198	-1,256.99	-2,692.80	695.73
2199	-1,196.18	-2,753.76	695.33
2200	-1,134.68	-2,815.41	694.61
2201	-1,082.75	-2,867.47	693.07
2202	-1,048.05	-2,902.25	692.89
2203	-1,021.74	-2,928.62	693.24
2204	-986.28	-2,964.17	710.00
2205	-979.86	-2,970.61	710.00
2206	-1,337.47	-2,522.48	697.78
2207	-1,327.04	-2,533.27	697.78
2208	-1,264.29	-2,598.22	697.35
2209	-1,214.17	-2,650.09	697.01
2210	-1,155.33	-2,713.02	696.56
2211	-1,152.92	-2,710.61	696.56
2212	-1,098.28	-2,779.09	695.04
2213	-1,087.65	-2,768.49	695.04
2214	-1,052.08	-2,836.87	693.43
2215	-1,029.82	-2,814.66	693.43
2216	-1,025.15	-2,870.55	692.50
2217	-996.33	-2,841.39	692.50
2218	-995.99	-2,899.37	692.50
2219	-967.18	-2,870.19	692.50
2220	-1,013.84	-2,870.48	690.50
2221	-996.26	-2,852.70	690.50
2222	-978.49	-2,870.26	690.50
2223	-996.06	-2,888.05	690.50
2224	-948.10	-2,925.46	710.00
2225	-941.78	-2,932.01	710.00
2226	-1,292.57	-2,478.83	698.63
2227	-1,282.09	-2,489.66	698.59
2228	-1,279.66	-2,492.18	696.53
2229	-1,219.92	-2,553.97	696.13
2230	-1,169.79	-2,605.82	695.76
2231	-1,109.93	-2,667.73	695.29
2232	-1,049.40	-2,730.33	694.57
2233	-998.28	-2,783.20	693.04
2234	-964.13	-2,818.53	692.90
2235	-938.71	-2,844.82	693.23
2236	-903.78	-2,880.94	710.00
2237	-897.38	-2,887.56	710.00
2238	-1,247.71	-2,435.08	697.80
2239	-1,237.12	-2,446.03	697.71
2240	-1,232.24	-2,451.08	695.29
2241	-1,175.56	-2,509.71	694.84
2242	-1,125.42	-2,561.56	694.44
2243	-1,065.57	-2,623.47	693.96
2244	-1,005.04	-2,686.07	693.48
2245	-953.92	-2,738.94	693.62
2246	-919.76	-2,774.27	694.06
2247	-891.88	-2,803.11	694.43
2248	-859.45	-2,836.65	710.00
2249	-853.07	-2,843.25	710.00
2250	-1,203.11	-2,391.78	697.81
2251	-1,192.50	-2,402.75	697.45
2252	-1,190.05	-2,405.28	696.62
2253	-1,131.54	-2,465.80	696.14
2254	-1,081.41	-2,517.65	695.72
2255	-1,021.55	-2,579.56	695.24
2256	-961.02	-2,642.16	694.76
2257	-909.90	-2,695.04	694.82
2258	-875.75	-2,730.36	695.22
2259	-845.42	-2,761.73	695.61
2260	-815.47	-2,792.71	710.00
2261	-809.11	-2,799.29	710.00
2266	-919.60	-2,599.15	696.00
2267	-870.81	-2,649.55	696.00
2269	-773.98	-2,751.26	710.00
2270	-767.70	-2,757.87	710.00
2271	-1,148.21	-2,926.35	694.00
2272	-1,108.22	-2,881.89	693.00
2273	-1,098.50	-2,891.50	693.00
2274	-892.39	-2,626.88	695.77
2275	-919.55	-2,653.13	695.00
2276	-980.20	-2,711.76	693.28
2277	-985.99	-2,758.29	693.00
2278	-942.99	-2,713.99	694.00
2279	-975.53	-2,768.63	693.00
2280	-839.62	-2,720.19	696.00
2281	-1,115.54	-2,724.10	696.00
2282	-1,141.86	-2,751.17	696.00
2283	-1,014.34	-2,827.01	693.00
2284	-1,039.56	-2,852.53	693.00
2285	-1,483.73	-2,764.49	697.00
2286	-1,441.51	-2,856.35	695.00
2287	-1,404.35	-2,936.20	694.00
2288	-1,376.31	-2,995.10	694.30
2289	-1,346.31	-3,084.76	694.00
2290	-1,343.06	-3,136.06	693.00
2291	-1,339.80	-3,187.35	692.00
2292	-1,504.20	-2,795.60	697.00
2293	-1,475.97	-2,908.73	695.00
2294	-1,501.20	-2,869.06	696.00
2295	-1,498.20	-2,995.08	695.00
2296	-1,424.63	-2,908.72	694.00
2297	-1,349.14	-2,983.40	693.50
2298	-1,293.93	-3,030.60	693.00
2299	-1,265.20	-3,058.94	692.80
2300	-1,196.07	-3,062.91	695.00
2301	-1,251.26	-3,016.83	694.30
2302	-1,368.63	-3,216.50	692.00
2303	-1,339.48	-3,245.33	692.00
2304	-1,310.64	-3,216.17	692.00
2305	-1,339.74	-3,198.66	690.00
2306	-1,357.32	-3,216.44	690.00
2307	-1,339.54	-3,234.02	690.00
2308	-1,321.96	-3,216.23	690.00
2309	-1,295.21	-3,130.35	692.40
2310	-1,325.22	-3,201.76	692.00
2311	-1,417.44	-3,222.22	692.26
2312	-1,494.57	-3,222.23	693.79
2313	-1,417.44	-3,080.75	693.00
2314	-1,450.59	-3,303.02	694.00
2315	-1,488.70	-3,395.91	696.00
2316	-1,503.56	-3,432.13	696.78
2317	-1,498.21	-3,307.17	695.00
2318	-1,495.20	-3,182.81	694.00
2319	-1,185.16	-3,103.99	695.51
2320	-1,154.00	-3,134.17	710.00
2321	-1,147.48	-3,140.50	710.00
2322	-1,227.34	-3,141.69	694.33
2323	-1,193.64	-3,174.34	710.00
2324	-1,187.12	-3,180.67	710.00
2325	-1,269.52	-3,179.40	693.15
2326	-1,233.28	-3,214.51	710.00
2327	-1,226.75	-3,220.84	710.00
2328	-1,272.92	-3,254.67	710.00
2329	-1,266.39	-3,261.01	710.00
2330	-1,350.60	-3,257.99	692.32
2331	-1,312.58	-3,294.83	710.00
2332	-1,306.02	-3,301.18	710.00
2333	-1,387.89	-3,300.44	693.41
2334	-1,352.20	-3,335.01	710.00
2335	-1,345.66	-3,341.35	710.00
2336	-1,425.17	-3,342.88	694.50
2337	-1,391.82	-3,375.19	710.00
2338	-1,385.29	-3,381.52	710.00
2339	-1,462.46	-3,385.33	695.58
2340	-1,431.44	-3,415.38	710.00
2341	-1,424.93	-3,421.69	710.00
2342	-1,471.06	-3,455.56	710.00
2343	-1,464.57	-3,461.86	710.00
2344	-1,510.70	-3,495.74	710.00
2345	-1,504.20	-3,502.03	710.00
2346	-1,543.16	-3,528.63	710.00
2347	-1,552.21	-3,550.71	710.00
2348	-1,519.20	-3,470.23	702.00
2349	-1,543.16	-3,502.23	710.00
2350	-1,552.21	-3,502.23	710.00
2351	-1,543.18	-3,446.23	710.00
2352	-1,552.21	-3,446.23	710.00
2353	-1,501.77	-3,390.23	696.18
2354	-1,543.18	-3,390.23	710.00
2355	-1,552.21	-3,390.23	710.00
2356	-1,499.37	-3,334.23	695.39
2357	-1,543.17	-3,334.23	710.00
2358	-1,552.21	-3,334.23	710.00
2359	-1,496.97	-3,278.23	694.59
2360	-1,543.17	-3,278.23	710.00
2361	-1,552.21	-3,278.23	710.00
2362	-1,543.16	-3,222.23	710.00
2363	-1,552.21	-3,222.23	710.00
2364	-1,495.47	-3,166.23	694.09
2365	-1,543.16	-3,166.23	710.00
2366	-1,552.21	-3,166.23	710.00
2367	-1,496.36	-3,110.23	694.39
2368	-1,543.17	-3,110.23	710.00
2369	-1,552.21	-3,110.23	710.00
2370	-1,497.26	-3,054.23	694.68
2371	-1,543.18	-3,054.23	710.00
2372	-1,552.21	-3,054.23	710.00
2373	-1,543.19	-2,998.23	710.00
2374	-1,552.21	-2,998.23	710.00
2375	-1,499.46	-2,942.23	695.42
2376	-1,543.19	-2,942.23	710.00
2377	-1,552.21	-2,942.23	710.00
2378	-1,500.79	-2,886.23	695.86
2379	-1,543.19	-2,886.23	710.00
2380	-1,552.21	-2,886.23	710.00
2381	-1,502.78	-2,830.23	696.53
2382	-1,543.18	-2,830.23	710.00
2383	-1,552.21	-2,830.23	710.00
2384	-1,505.07	-2,774.23	697.29
2385	-1,543.17	-2,774.23	710.00
2386	-1,552.21	-2,774.23	710.00
2387	-1,543.16	-2,712.61	710.00
2388	-1,552.21	-2,712.61	710.00
2389	-1,420.40	-2,902.29	694.00
2390	-1,348.26	-3,053.99	694.60
2391	-1,126.01	-2,744.39	696.00
2392	-1,122.41	-2,740.75	696.00

NO.	DATE	BY	DESCRIPTION

1800 INDIAN WOOD CIRCLE
MAUMEE, OH 43537
TEL: 419.891.2222
FAX: 419.891.1555

PROJECT DATE: NOVEMBER 2025
PROJECT NO: DFC0143
DRAWN BY: SRG
CHECKED BY: KCD

Mannik Smith GROUP
TECHNICAL SKILL. CREATIVE SPIRIT.
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SITE IMPROVEMENT PLAN FOR
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LANDFILL
13207 CANAL ROAD
DEFIANCE, OHIO 43512

CONSTRUCTION POINTS
TOP OF
RECOMPACTED SOIL LINER

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POINT	NORTHING	EASTING	TOP OF DL ELEVATION
3109	−1,147.40	−2,358.99	699.57
3112	−1,157.59	−2,370.04	698.69
3113	−1,083.96	−2,425.64	698.91
3114	−1,092.12	−2,438.81	698.21
3115	−1,025.44	−2,487.11	698.31
3116	−1,040.35	−2,493.20	697.73
3117	−966.92	−2,548.59	697.65
3118	−975.73	−2,561.08	697.17
3119	−908.40	−2,610.07	697.02
3120	−917.21	−2,622.55	696.71
3121	−856.59	−2,664.48	697.24
3122	−870.86	−2,671.25	696.94
3123	−801.37	−2,722.49	697.84
3124	−812.58	−2,732.47	697.52
3155	−1,507.58	−2,712.58	699.13
3156	−1,494.13	−2,725.65	699.00
3157	−1,442.40	−2,775.91	698.50
3158	−1,390.67	−2,826.16	698.00
3159	−1,328.81	−2,886.08	697.47
3160	−1,266.45	−2,946.85	697.00
3161	−1,237.22	−2,974.83	696.77
3162	−1,213.55	−2,997.95	697.00
3163	−1,178.24	−3,032.12	697.34
3164	−1,142.93	−3,066.29	697.71
3165	−1,114.36	−3,094.01	711.00
3167	−1,500.00	−2,701.89	699.08
3169	−1,462.28	−2,665.13	698.85
3170	−1,457.39	−2,670.03	697.60
3172	−1,396.98	−2,730.59	697.04
3173	−1,346.04	−2,781.65	696.68
3174	−1,285.23	−2,842.60	696.27
3175	−1,223.74	−2,904.25	695.79
3176	−1,195.18	−2,932.87	695.56
3177	−1,146.15	−2,978.06	696.00
3178	−1,105.03	−3,023.24	696.62
3179	−1,074.62	−3,053.73	711.00
3182	−1,416.40	−2,620.27	699.30
3183	−1,408.29	−2,628.40	696.11
3184	−1,351.55	−2,685.28	695.75
3185	−1,300.62	−2,736.33	695.43
3186	−1,239.81	−2,797.29	694.99
3187	−1,178.32	−2,858.93	694.48
3188	−1,149.76	−2,887.56	694.25
3189	−1,126.38	−2,910.99	694.56
3190	−1,091.68	−2,945.77	695.02
3191	−1,062.55	−2,974.98	695.41
3192	−1,029.56	−3,008.05	711.00
3195	−1,372.22	−2,577.29	699.57
3196	−1,368.14	−2,581.38	697.43
3197	−1,307.92	−2,641.75	697.05
3198	−1,256.99	−2,692.80	696.73
3199	−1,196.18	−2,753.76	696.33
3200	−1,134.68	−2,815.41	695.61
3201	−1,082.75	−2,867.47	694.07
3202	−1,048.05	−2,902.25	693.89
3203	−1,021.74	−2,928.62	694.24
3204	−986.28	−2,964.17	711.00
3207	−1,327.04	−2,533.27	698.78
3208	−1,264.29	−2,598.22	698.35
3209	−1,214.17	−2,650.09	698.01
3210	−1,155.33	−2,713.02	697.56
3211	−1,152.92	−2,710.61	697.56
3212	−1,098.28	−2,779.09	696.04
3213	−1,087.65	−2,768.49	696.04
3214	−1,052.08	−2,836.87	694.43
3215	−1,029.82	−2,814.66	694.43
3216	−1,025.15	−2,870.55	693.50
3217	−996.33	−2,841.39	693.50
3218	−995.99	−2,899.37	693.50
3219	−967.18	−2,870.19	693.50
3224	−948.10	−2,925.46	711.00
3227	−1,282.09	−2,489.66	699.59
3228	−1,279.66	−2,492.18	697.53
3229	−1,219.92	−2,553.97	697.13
3230	−1,169.79	−2,605.82	696.76
3231	−1,109.93	−2,667.73	696.29
3232	−1,049.40	−2,730.33	695.57
3233	−998.28	−2,783.20	694.04
3234	−964.13	−2,818.53	693.90
3235	−938.71	−2,844.82	694.23
3236	−903.78	−2,880.94	711.00
3239	−1,237.12	−2,446.03	698.71
3240	−1,232.24	−2,451.08	696.29
3241	−1,175.56	−2,509.71	695.84
3242	−1,125.42	−2,561.56	695.44
3243	−1,065.57	−2,623.47	694.96
3244	−1,005.04	−2,686.07	694.48
3245	−953.92	−2,738.94	694.62
3246	−919.76	−2,774.27	695.06
3247	−891.88	−2,803.11	695.43
3248	−859.45	−2,836.65	711.00
3251	−1,192.50	−2,402.75	698.45
3252	−1,190.05	−2,405.28	697.62
3253	−1,131.54	−2,465.80	697.14
3254	−1,081.41	−2,517.65	696.72
3255	−1,021.55	−2,579.56	696.24
3256	−961.02	−2,642.16	695.76
3257	−909.90	−2,695.04	695.82
3258	−875.75	−2,730.36	696.22
3259	−845.42	−2,761.73	696.61
3260	−815.47	−2,792.71	711.00
3266	−919.60	−2,599.15	697.00
3267	−870.81	−2,649.55	697.00
3269	−773.98	−2,751.26	711.00
3271	−1,148.21	−2,926.35	695.00
3272	−1,108.22	−2,881.89	694.00
3273	−1,098.50	−2,891.50	694.00
3274	−892.39	−2,626.88	696.77
3275	−919.55	−2,653.13	696.00
3276	−980.20	−2,711.76	694.28
3277	−985.99	−2,758.29	694.00
3278	−942.99	−2,713.99	695.00
3279	−975.53	−2,768.63	694.00
3280	−839.62	−2,720.19	697.00
3281	−1,115.54	−2,724.10	697.00
3282	−1,141.86	−2,751.17	697.00
3283	−1,014.34	−2,827.01	694.00
3284	−1,039.56	−2,852.53	694.00
3285	−1,483.73	−2,764.49	698.00
3286	−1,441.51	−2,856.35	696.00
3287	−1,404.35	−2,936.20	695.00
3288	−1,376.31	−2,995.10	695.30
3289	−1,346.31	−3,084.76	695.00
3290	−1,343.06	−3,136.06	694.00
3291	−1,339.80	−3,187.35	693.00
3292	−1,504.20	−2,795.60	698.00
3293	−1,475.97	−2,908.73	696.00
3294	−1,501.20	−2,869.06	697.00
3295	−1,498.20	−2,995.08	696.00
3296	−1,424.63	−2,908.72	695.00
3297	−1,349.14	−2,983.40	694.50
3298	−1,293.93	−3,030.60	694.00
3299	−1,265.20	−3,058.94	693.80
3300	−1,196.07	−3,062.91	696.00
3301	−1,251.26	−3,016.83	695.30
3302	−1,368.63	−3,216.50	693.00
3303	−1,339.48	−3,245.33	693.00
3304	−1,310.64	−3,216.17	693.00
3309	−1,295.21	−3,130.35	693.40
3310	−1,325.22	−3,201.76	693.00
3311	−1,417.44	−3,222.22	693.26
3312	−1,494.57	−3,222.23	694.79
3313	−1,417.44	−3,080.75	694.00
3314	−1,450.59	−3,303.02	695.00
3315	−1,488.70	−3,395.91	697.00
3316	−1,503.56	−3,432.13	697.78
3317	−1,498.21	−3,307.17	696.00
3318	−1,495.20	−3,182.81	695.00
3319	−1,185.16	−3,103.99	696.51
3320	−1,154.00	−3,134.17	711.00
3322	−1,227.34	−3,141.69	695.33
3323	−1,193.64	−3,174.34	711.00
3325	−1,269.52	−3,179.40	694.15
3326	−1,233.28	−3,214.51	711.00
3328	−1,272.92	−3,254.67	711.00
3330	−1,350.60	−3,257.99	693.32
3331	−1,312.58	−3,294.83	711.00
3333	−1,387.89	−3,300.44	694.41
3334	−1,352.20	−3,335.01	711.00
3336	−1,425.17	−3,342.88	695.50
3337	−1,391.82	−3,375.19	711.00
3339	−1,462.46	−3,385.33	696.58
3340	−1,431.44	−3,415.38	711.00
3342	−1,471.06	−3,455.56	711.00
3344	−1,510.70	−3,495.74	711.00
3346	−1,543.16	−3,528.63	711.00
3348	−1,519.20	−3,470.23	703.00
3349	−1,543.16	−3,502.23	711.00
3351	−1,543.18	−3,446.23	711.00
3353	−1,501.77	−3,390.23	697.18
3354	−1,543.18	−3,390.23	711.00
3356	−1,499.37	−3,334.23	696.39
3357	−1,543.17	−3,334.23	711.00
3359	−1,496.97	−3,278.23	695.59
3360	−1,543.17	−3,278.23	711.00
3362	−1,543.16	−3,222.23	711.00
3364	−1,495.47	−3,166.23	695.09
3365	−1,543.16	−3,166.23	711.00
3367	−1,496.36	−3,110.23	695.39
3368	−1,543.17	−3,110.23	711.00
3370	−1,497.26	−3,054.23	695.68
3371	−1,543.18	−3,054.23	711.00
3373	−1,543.19	−2,998.23	711.00
3375	−1,499.46	−2,942.23	696.42
3376	−1,543.19	−2,942.23	711.00
3378	−1,500.79	−2,886.23	696.86
3379	−1,543.19	−2,886.23	711.00
3381	−1,502.78	−2,830.23	697.53
3382	−1,543.18	−2,830.23	711.00
3384	−1,505.07	−2,774.23	698.29
3385	−1,543.17	−2,774.23	711.00
3387	−1,543.16	−2,712.61	711.00
3389	−1,420.40	−2,902.29	695.00
3390	−1,348.26	−3,053.99	695.60
3391	−1,126.01	−2,744.39	697.00
3392	−1,122.41	−2,740.75	697.00

NO.	DATE	BY	DESCRIPTION

1800 INDIAN WOOD CIRCLE
MAUMEE, OH 43537
TEL: 419.891.2222
FAX: 419.891.1555

PROJECT DATE: NOVEMBER 2025
PROJECT NO: DFC0143
DRAWN BY: SRG
CHECKED BY: KCD

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SITE IMPROVEMENT PLAN FOR
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13207 CANAL ROAD
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CONSTRUCTION POINTS
TOP OF
DRAINAGE LAYER

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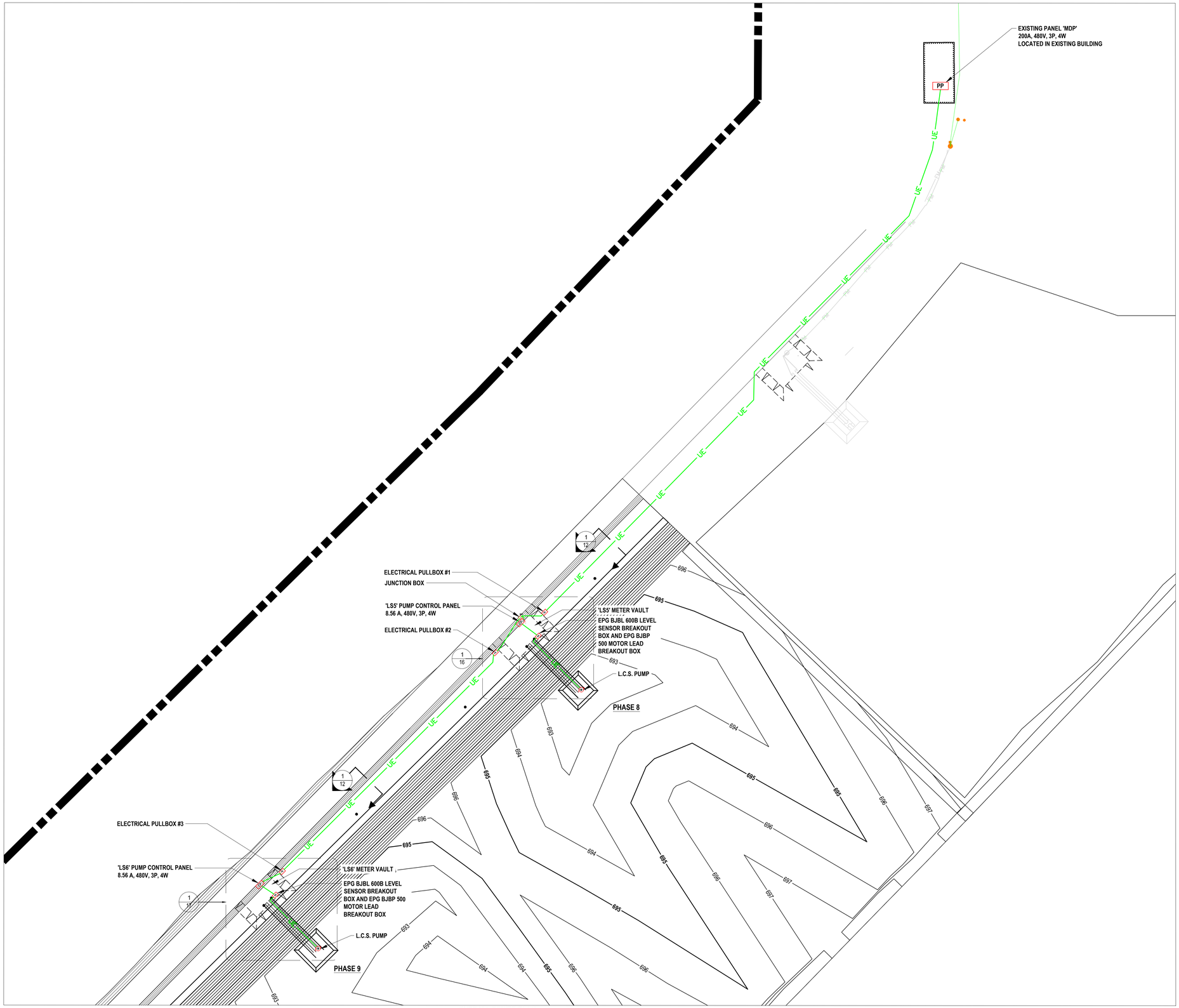

OVERALL POWER PLAN

SCALE: 1" = 60'

GRAPHIC SCALE

0 60' 120'

LEGEND

J	JUNCTION BOX
PB	ELECTRICAL PULL BOX
BB	ELECTRICAL BREAKOUT BOX
WP	SIGNIFIES WEATHER PROOF ENCLOSURE
UE	UNDERGROUND ELECTRIC
CP	PUMP CONTROL PANEL
PP	POWER PANEL
M	MOTOR

ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR TO REFER TO ONE-LINE DIAGRAM FOR CIRCUIT INFORMATION.
2. ELECTRICAL CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE THE START OF CONSTRUCTION.
3. OWNER SUPPLIED CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
4. PVC CONDUITS SHALL BE SCH. 80 RIGID "PVC". ELBOWS AND ANY CONDUIT LOCATED ABOVE FINISHED GRADE SHALL BE "RGS" UNLESS OTHERWISE NOTED IN THE DRAWINGS.
5. BURY DEPTH FOR ALL UNDERGROUND CONDUITS TO BE A MINIMUM OF 24" BELOW FINISHED GRADE. PROVIDE A WARNING MARKER TAPE AT 12" BELOW FINISHED GRADE.
6. ELECTRICAL CONTRACTOR TO REFER TO LIFT PUMP DETAIL SHEETS 10-13 FOR ELECTRICAL INSTALLATION DETAILS.
7. LS5 AND LS6 CONTROL PANEL RACKS TO BE CONSTRUCTED WITH TWO (2) 4" CONCRETE-FILLED SCHEDULE 40 GALVANIZED UPRIGHTS AND FIVE (5) GALVANIZED HORIZONTAL STRUTS. SET THE UPRIGHTS IN 12-INCH DIAMETER BY THREE FEET DEEP CONCRETE-FILLED HOLES.
8. PULLBOXES TO BE SYNERTECH MODEL 2436TBOX36, 2'X3'X3' DEEP, WITH LID MODEL 2436T011 OR EQUAL. PULLBOXES TO BE SET 1/2' BELOW GRADE TO ALLOW FOR FUTURE VEGETATIVE COVER.
9. JUNCTION BOX TO BE NEMA 4, 4X4 ENCLOSURE.
10. PUMP CONTROL PANELS 'LS5' AND 'LS6' TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR.

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ELECTRICAL

OVERALL POWER PLAN

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