



CONSTRUCTION DRAWINGS PHASE 1 LINER CONSTRUCTION OUTAGAMIE COUNTY NORTHWEST LANDFILL OUTAGAMIE COUNTY, WISCONSIN

PREPARED FOR: **OUTAGAMIE COUNTY LANDFILL RECYCLING & SOLID WASTE DEPARTMENT**
1409 HOLLAND ROAD
APPLETON, WISCONSIN

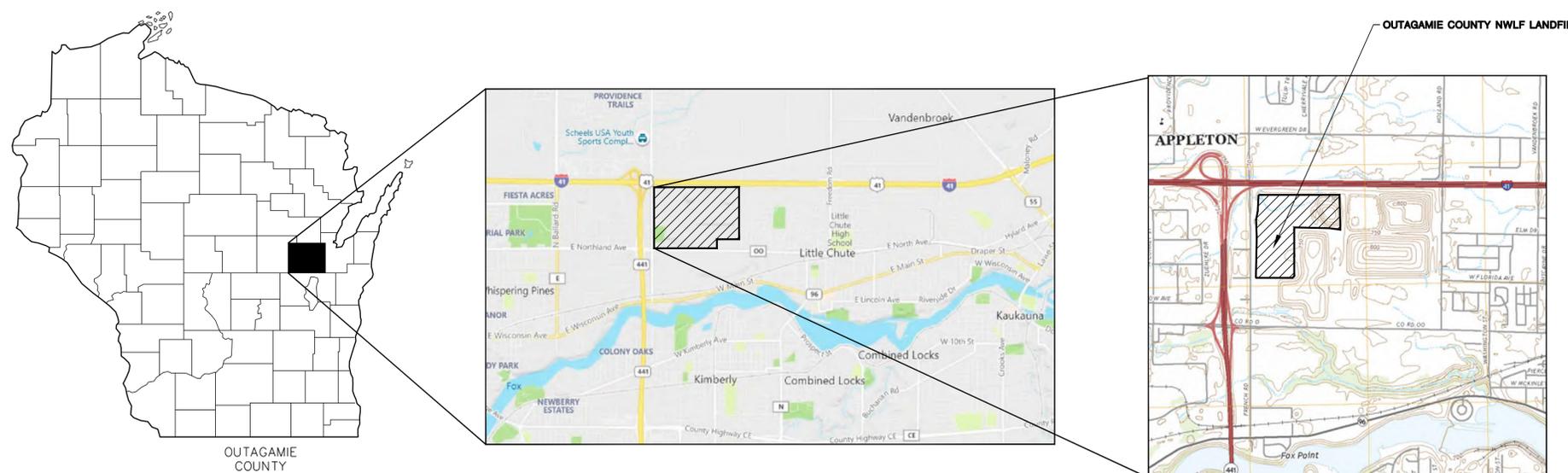
PREPARED BY: **SCS ENGINEERS**
MADISON, WISCONSIN

DATE: **FEBRUARY 2024**
(REVISED 4-4-24)

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* - DRAWINGS PREPARED BY SUBURBAN ENTERPRISES, INC.
REVISED 4-4-24



WISCONSIN

OUTAGAMIE COUNTY

SITE LOCATOR MAP

APPROXIMATE SCALE: 1"=2,000'

PROJECT NO. 25223132.02
 DRAWN: 02/12/2024
 CHECKED BY: MH
 APPROVED BY: MFS

OUTAGAMIE COUNTY RECYCLING & SOLID WASTE DEPARTMENT

SCS ENGINEERS
 2830 DARY DRIVE, MADISON, WI 53718-0751
 PHONE: (608) 224-2830

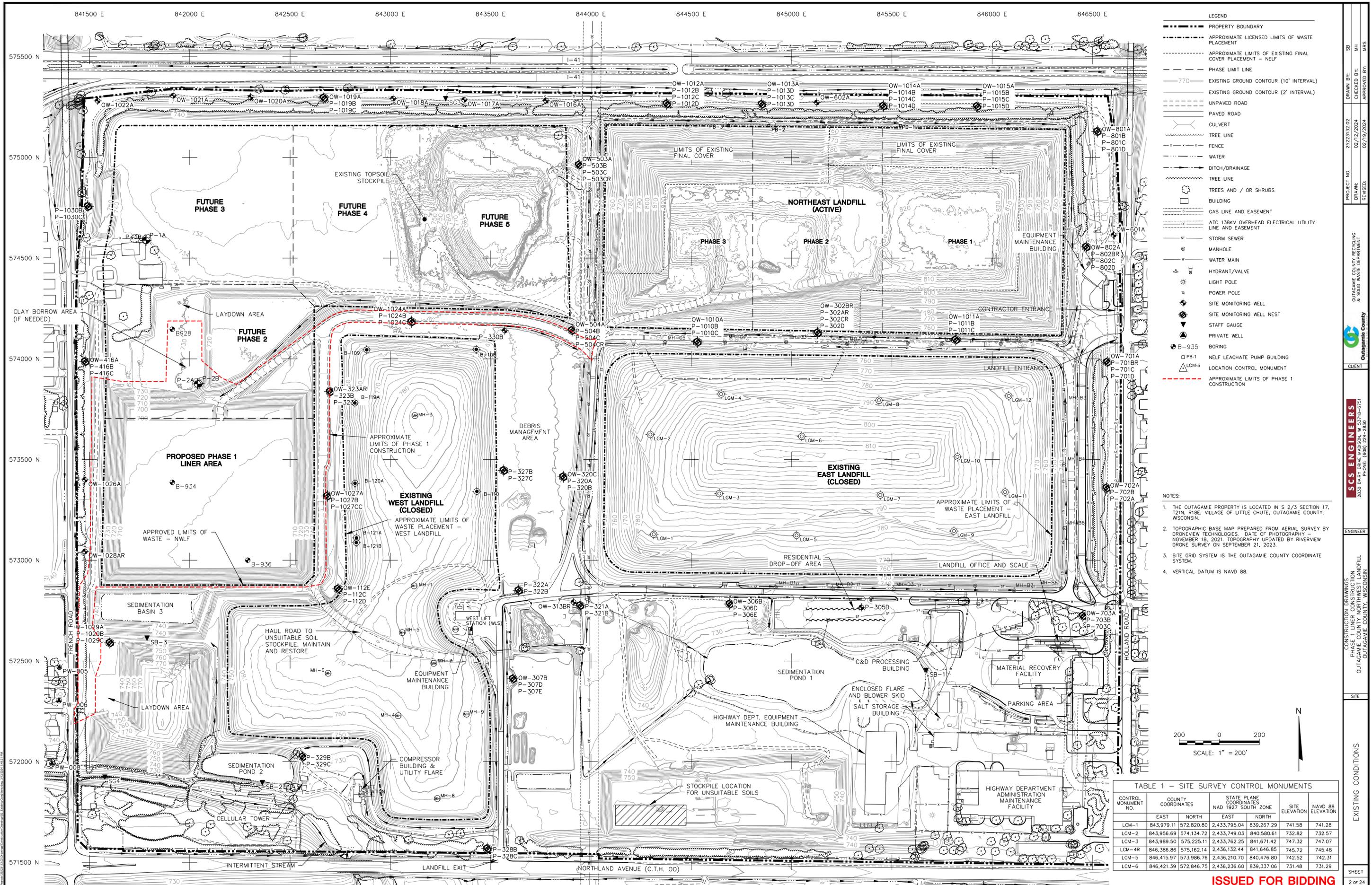
ENGINEER

CONSTRUCTION DRAWINGS
 PHASE 1 LINER CONSTRUCTION
 OUTAGAMIE COUNTY NORTHWEST LANDFILL
 OUTAGAMIE COUNTY, WISCONSIN

SITE

TITLE SHEET

SHEET 1 of 24



- LEGEND**
- PROPERTY BOUNDARY
 - - - - - APPROXIMATE LIMITS OF WASTE PLACEMENT
 - - - - - APPROXIMATE LIMITS OF EXISTING FINAL COVER PLACEMENT - NLF
 - - - - - PHASE LIMIT LINE
 - 770' EXISTING GROUND CONTOUR (10' INTERVAL)
 - EXISTING GROUND CONTOUR (2' INTERVAL)
 - UNPAVED ROAD
 - PAVED ROAD
 - CULVERT
 - TREE LINE
 - FENCE
 - WATER
 - DITCH/DRAINAGE
 - TREE LINE
 - TREES AND / OR SHRUBS
 - BUILDING
 - GAS LINE AND EASEMENT
 - ATC 138KV OVERHEAD ELECTRICAL UTILITY LINE AND EASEMENT
 - STORM SEWER
 - MANHOLE
 - WATER MAIN
 - HYDRANT/VALVE
 - LIGHT POLE
 - POWER POLE
 - SITE MONITORING WELL
 - SITE MONITORING WELL NEST
 - STAFF GAUGE
 - PRIVATE WELL
 - B-935 BORING
 - NLF LEACHATE PUMP BUILDING
 - LCM-5 LOCATION CONTROL MONUMENT
 - APPROXIMATE LIMITS OF PHASE 1 CONSTRUCTION

- NOTES:**
1. THE OUTAGAMIE PROPERTY IS LOCATED IN S 2/3 SECTION 17, T21N, R18E, VILLAGE OF LITTLE CHUTE, OUTAGAMIE COUNTY, WISCONSIN.
 2. TOPOGRAPHIC BASE MAP PREPARED FROM AERIAL SURVEY BY DRONEVIEW TECHNOLOGIES. DATE OF PHOTOGRAPHY NOVEMBER 18, 2021. TOPOGRAPHY UPDATED BY RIVERVIEW DRONE SURVEY ON SEPTEMBER 21, 2023.
 3. SITE GRID SYSTEM IS THE OUTAGAMIE COUNTY COORDINATE SYSTEM.
 4. VERTICAL DATUM IS NAVD 88.

TABLE 1 - SITE SURVEY CONTROL MONUMENTS

CONTROL MONUMENT NO.	COUNTY COORDINATES		STATE PLANE COORDINATES NAD 1927 SOUTH ZONE		SITE ELEVATION	NAVD 88 ELEVATION
	EAST	NORTH	EAST	NORTH		
LCM-1	843,979.11	572,820.80	2,433,795.04	839,267.29	741.58	741.28
LCM-2	843,956.69	574,134.72	2,433,749.03	840,580.61	732.82	732.57
LCM-3	843,989.50	575,225.11	2,433,762.25	841,671.42	747.32	747.07
LCM-4R	846,386.86	575,162.14	2,436,132.44	841,646.85	745.72	745.48
LCM-5	846,415.97	573,986.76	2,436,210.70	840,476.80	742.52	742.31
LCM-6	846,421.39	572,846.75	2,436,236.60	839,337.06	731.48	731.29

ISSUED FOR BIDDING

PROJECT NO. 25221312.02
 DRAWN BY: SB
 CHECKED BY: MH
 APPROVED BY: MRS

OUTAGAMIE COUNTY RECYCLING & SOLID WASTE DEPARTMENT

SCS ENGINEERS
 2830 DAIRY DRIVE, MADISON, WI 53718-0791
 PHONE: (608) 224-8830

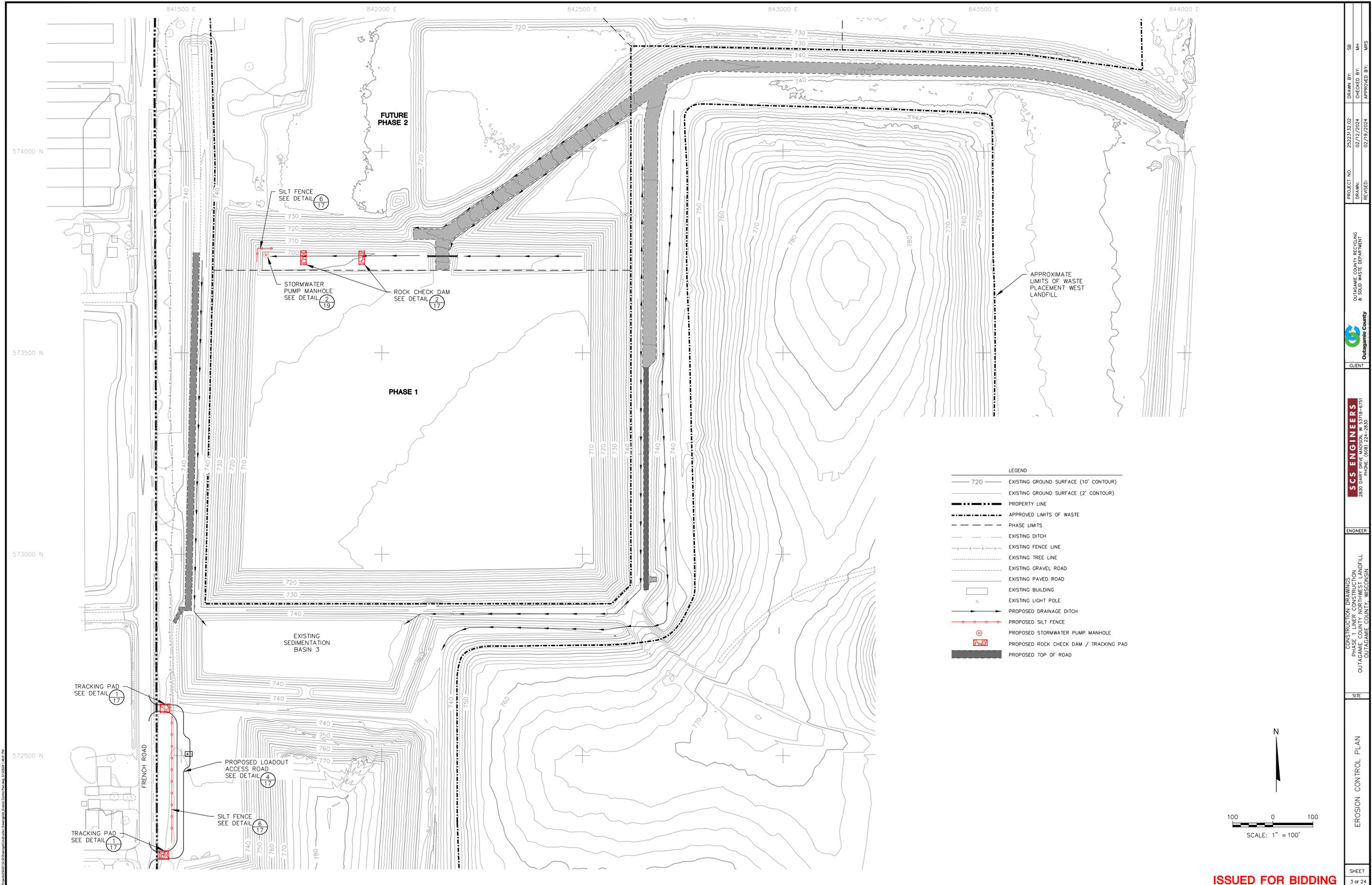
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CONSTRUCTION DRAWINGS
 PHASE 1 LINER CONSTRUCTION
 OUTAGAMIE COUNTY NORTHWEST LANDFILL
 OUTAGAMIE COUNTY, WISCONSIN

SITE

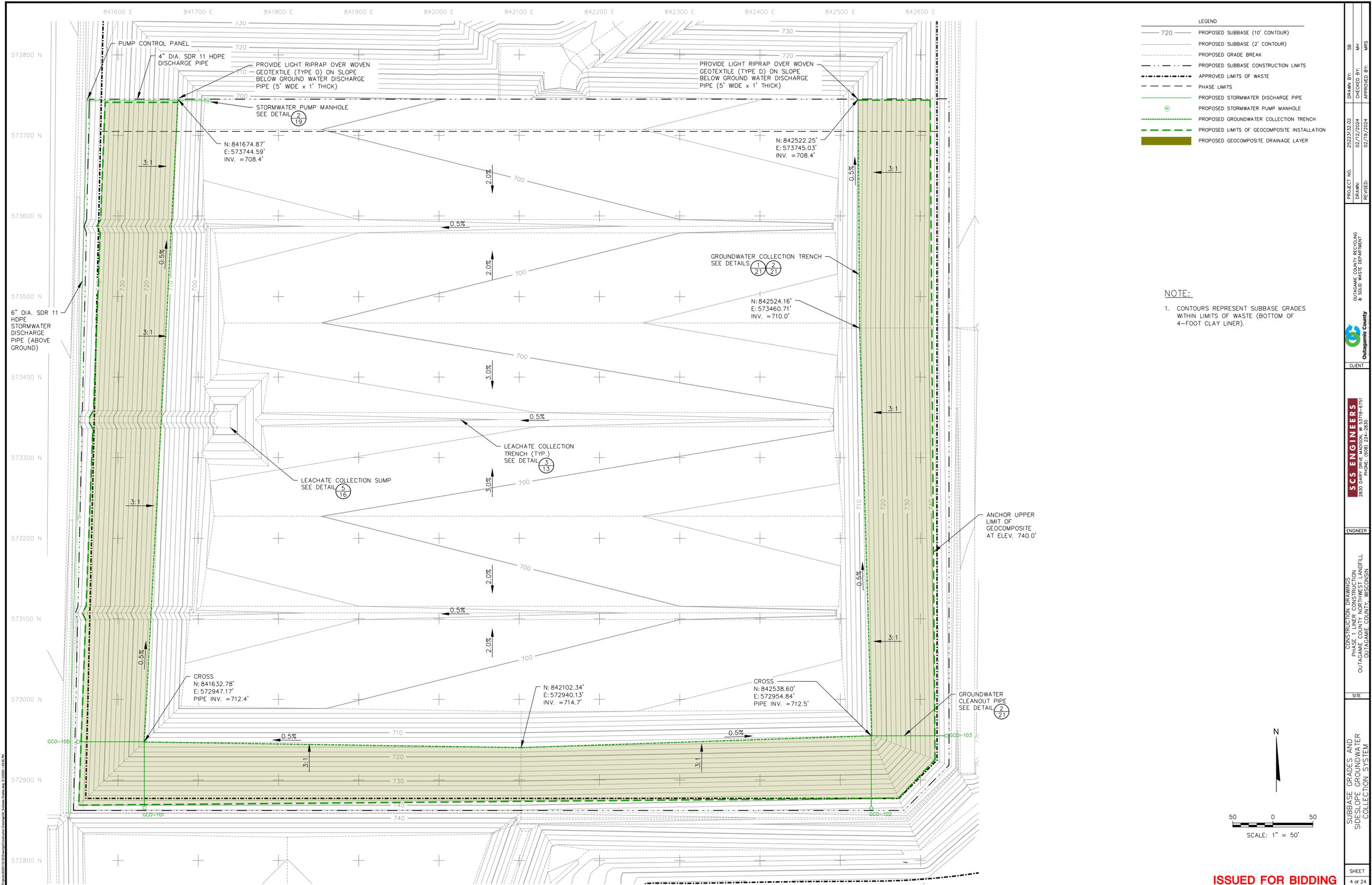
EXISTING CONDITIONS

SHEET 2 of 24



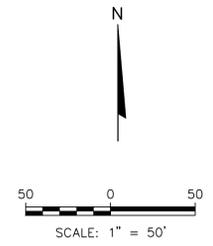
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PROJECT NO.	2522312.02	DRAWN BY:	SB
DRAWN:	02/12/2024	CHECKED BY:	MH
REVISION:	02/19/2024	APPROVED BY:	MRS
CLIENT:	OUTAGAMIE COUNTY, RECYCLING & SOLID WASTE DEPARTMENT		
ENGINEER:	SCS ENGINEERS 2830 DAIRY DRIVE, MADISON, WI 53718-0751 PHONE: (608) 224-2830		
SITE:	CONSTRUCTION DRAWINGS PHASE 1 LINER CONSTRUCTION OUTAGAMIE COUNTY NORTHWEST LANDFILL OUTAGAMIE COUNTY, WISCONSIN		
SHEET:	EROSION CONTROL PLAN		
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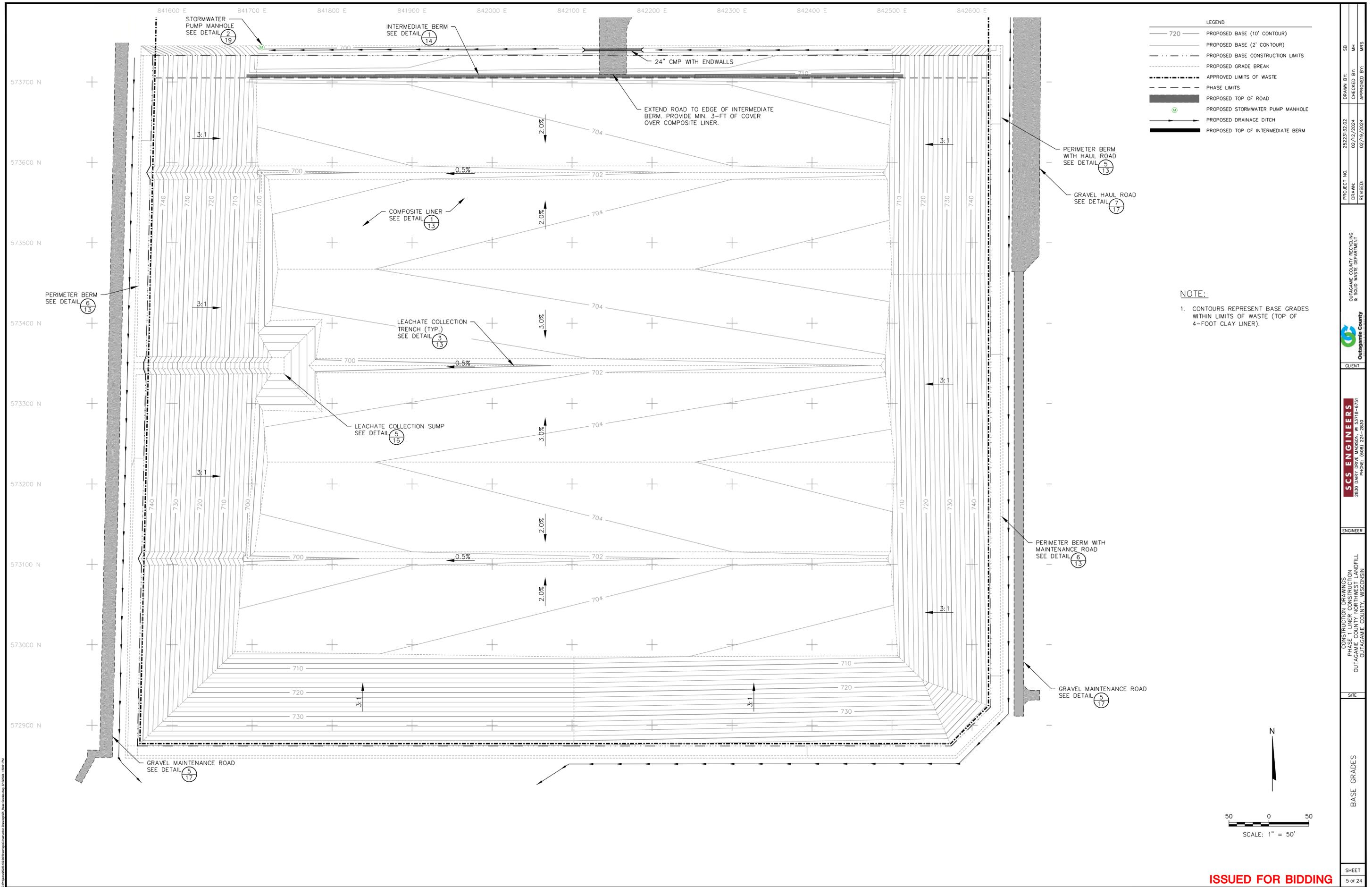
- LEGEND
- 720 PROPOSED SUBBASE (10' CONTOUR)
 - PROPOSED SUBBASE (2' CONTOUR)
 - PROPOSED GRADE BREAK
 - PROPOSED SUBBASE CONSTRUCTION LIMITS
 - APPROVED LIMITS OF WASTE
 - PHASE LIMITS
 - PROPOSED STORMWATER DISCHARGE PIPE
 - PROPOSED STORMWATER PUMP MANHOLE
 - PROPOSED GROUNDWATER COLLECTION TRENCH
 - PROPOSED LIMITS OF GEOCOMPOSITE INSTALLATION
 - PROPOSED GEOCOMPOSITE DRAINAGE LAYER

NOTE:
 1. CONTOURS REPRESENT SUBBASE GRADES WITHIN LIMITS OF WASTE (BOTTOM OF 4-FOOT CLAY LINER).

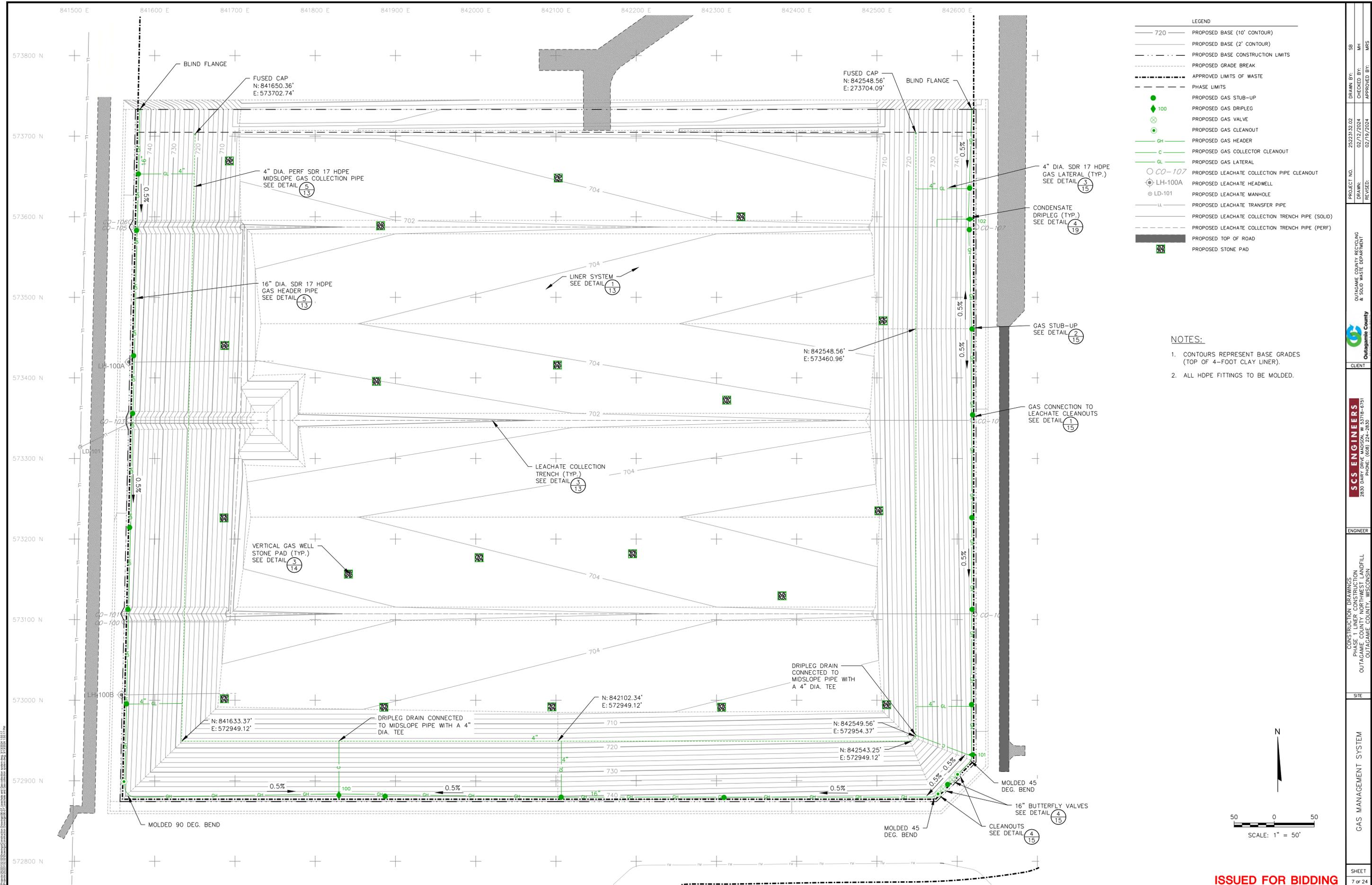


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ENGINEER:	SCS ENGINEERS 2830 DARY DRIVE MADISON, WI 53718-0797 PHONE: (608) 224-2830		
SITE:	CONSTRUCTION DRAWINGS PHASE 1 LINER CONSTRUCTION OUTAGAMIE COUNTY NORTHWEST LANDFILL OUTAGAMIE COUNTY, WISCONSIN		
SHEET:	SUBBASE GRADES AND SIDESLOPE GROUNDWATER COLLECTION SYSTEM		
	4 OF 24		

ISSUED FOR BIDDING



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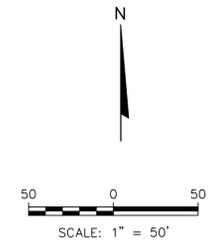


LEGEND

— 720 —	PROPOSED BASE (10' CONTOUR)
— 710 —	PROPOSED BASE (2' CONTOUR)
- - - - -	PROPOSED BASE CONSTRUCTION LIMITS
- - - - -	PROPOSED GRADE BREAK
- - - - -	APPROVED LIMITS OF WASTE
- - - - -	PHASE LIMITS
●	PROPOSED GAS STUB-UP
◆	PROPOSED GAS DRIPLEG
⊗	PROPOSED GAS VALVE
○	PROPOSED GAS CLEANOUT
GH	PROPOSED GAS HEADER
C	PROPOSED GAS COLLECTOR CLEANOUT
GL	PROPOSED GAS LATERAL
○ CO-107	PROPOSED LEACHATE COLLECTION PIPE CLEANOUT
○ LH-100A	PROPOSED LEACHATE HEADWELL
○ LD-101	PROPOSED LEACHATE MANHOLE
LL	PROPOSED LEACHATE TRANSFER PIPE
—	PROPOSED LEACHATE COLLECTION TRENCH PIPE (SOLID)
- - - - -	PROPOSED LEACHATE COLLECTION TRENCH PIPE (PERF)
■	PROPOSED TOP OF ROAD
■	PROPOSED STONE PAD

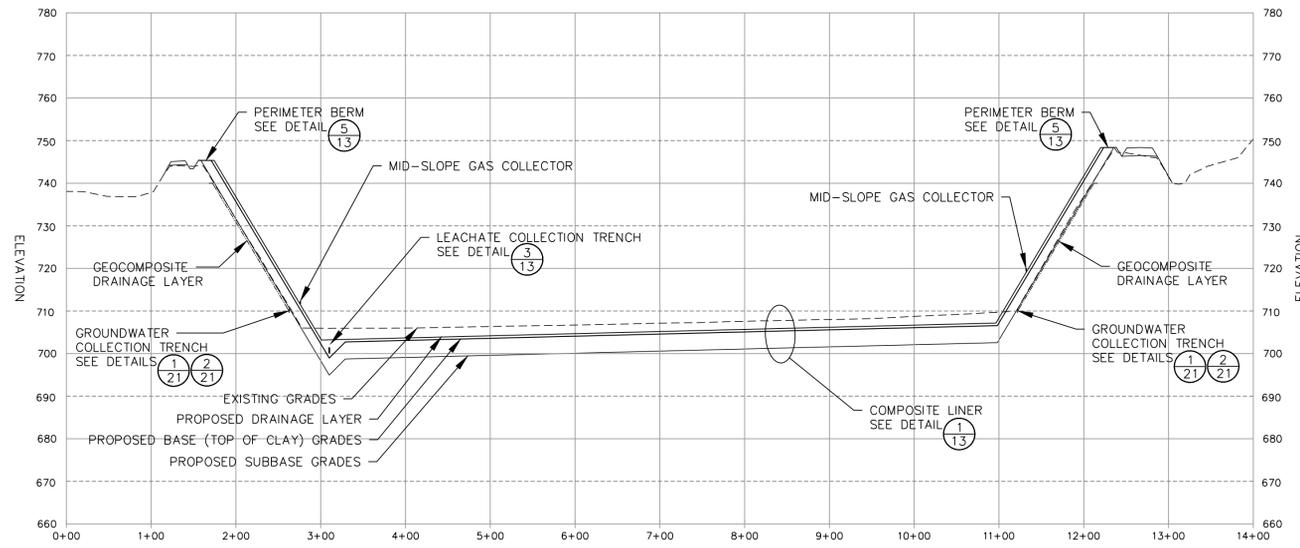
NOTES:

- CONTOURS REPRESENT BASE GRADES (TOP OF 4-FOOT CLAY LINER).
- ALL HDPE FITTINGS TO BE MOLDED.

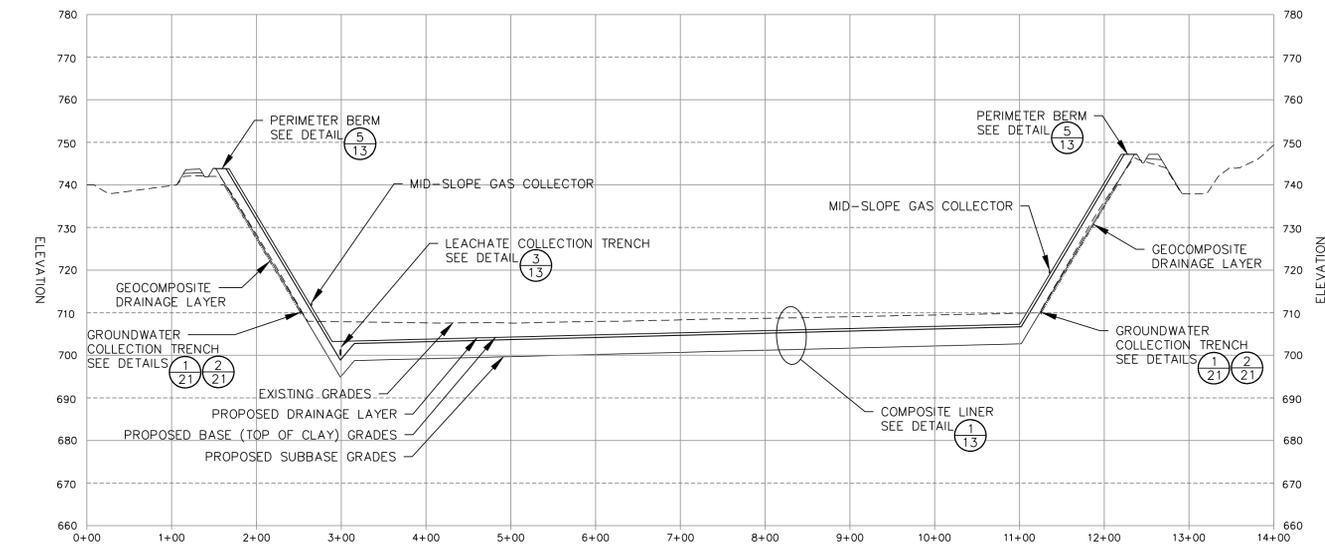


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OUTAGAMIE COUNTY, WISCONSIN DEPARTMENT OF PUBLIC WORKS & SOLID WASTE DEPARTMENT			
Outagamie County			
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ENGINEER			
CONSTRUCTION DRAWINGS PHASE 1A OUTAGAMIE COUNTY, NORTHWEST LANDFILL OUTAGAMIE COUNTY, WISCONSIN			
SITE			
GAS MANAGEMENT SYSTEM			
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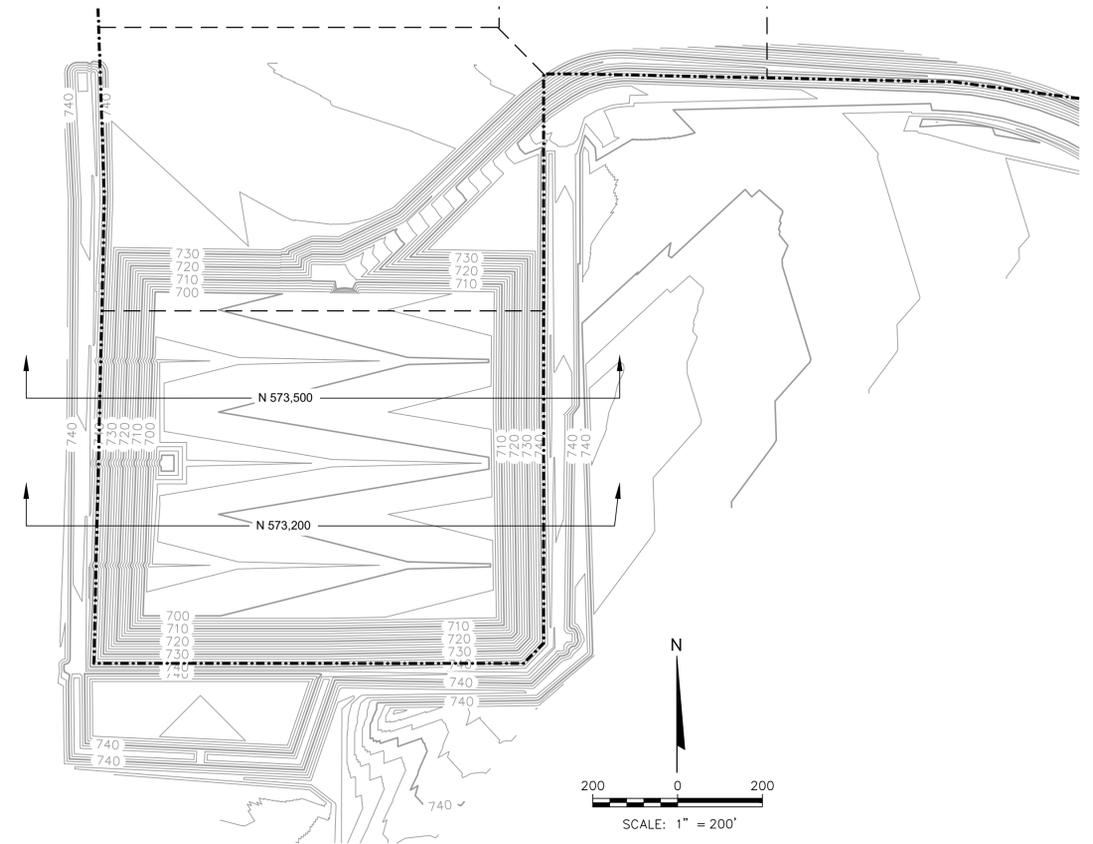
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ENGINEERING CROSS SECTION N 573,500



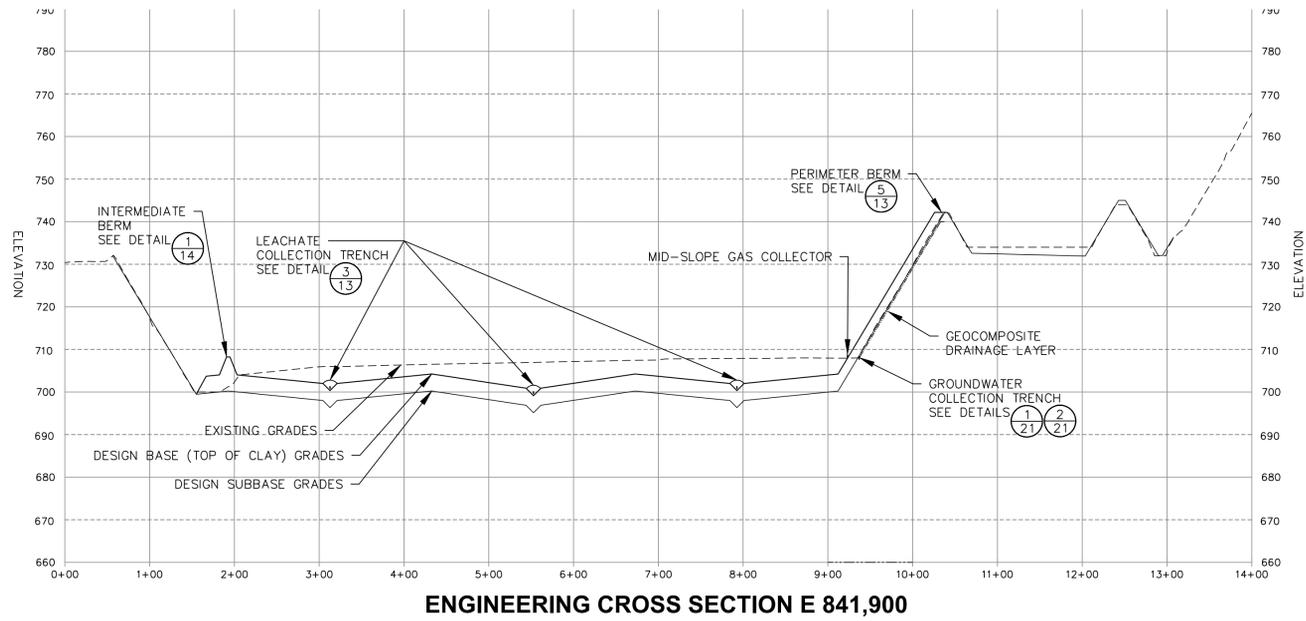
ENGINEERING CROSS SECTION N 573,200



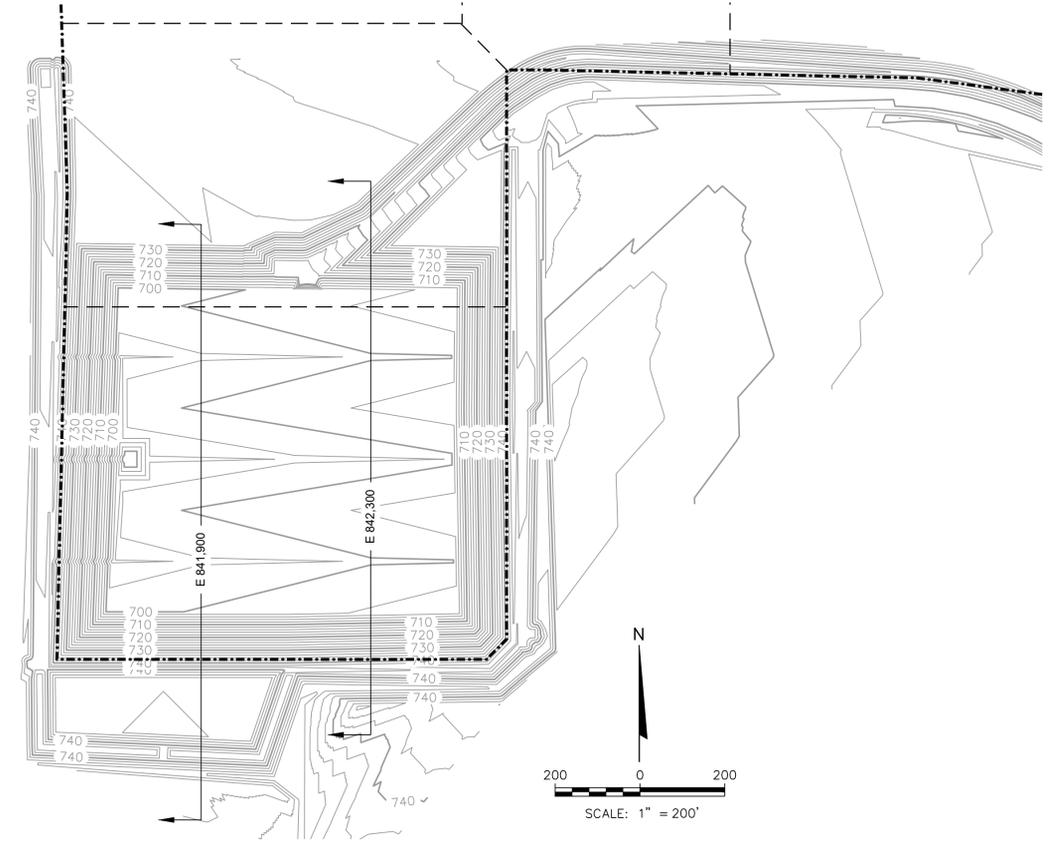
CROSS SECTION LOCATION MAP

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OUTAGAMIE COUNTY, RECYCLING & SOLID WASTE DEPARTMENT			
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ENGINEER			
CONSTRUCTION DRAWINGS PHASE 1 LINER CONSTRUCTION OUTAGAMIE COUNTY NORTHWEST LANDFILL OUTAGAMIE COUNTY, WISCONSIN			
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CROSS SECTIONS			
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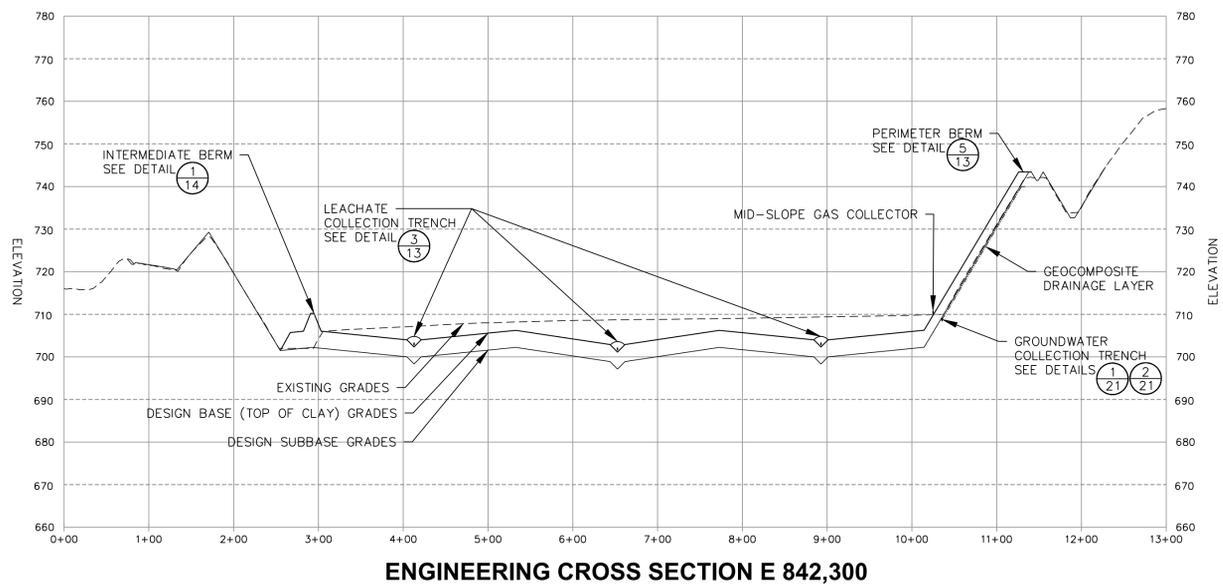
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ENGINEERING CROSS SECTION E 841,900



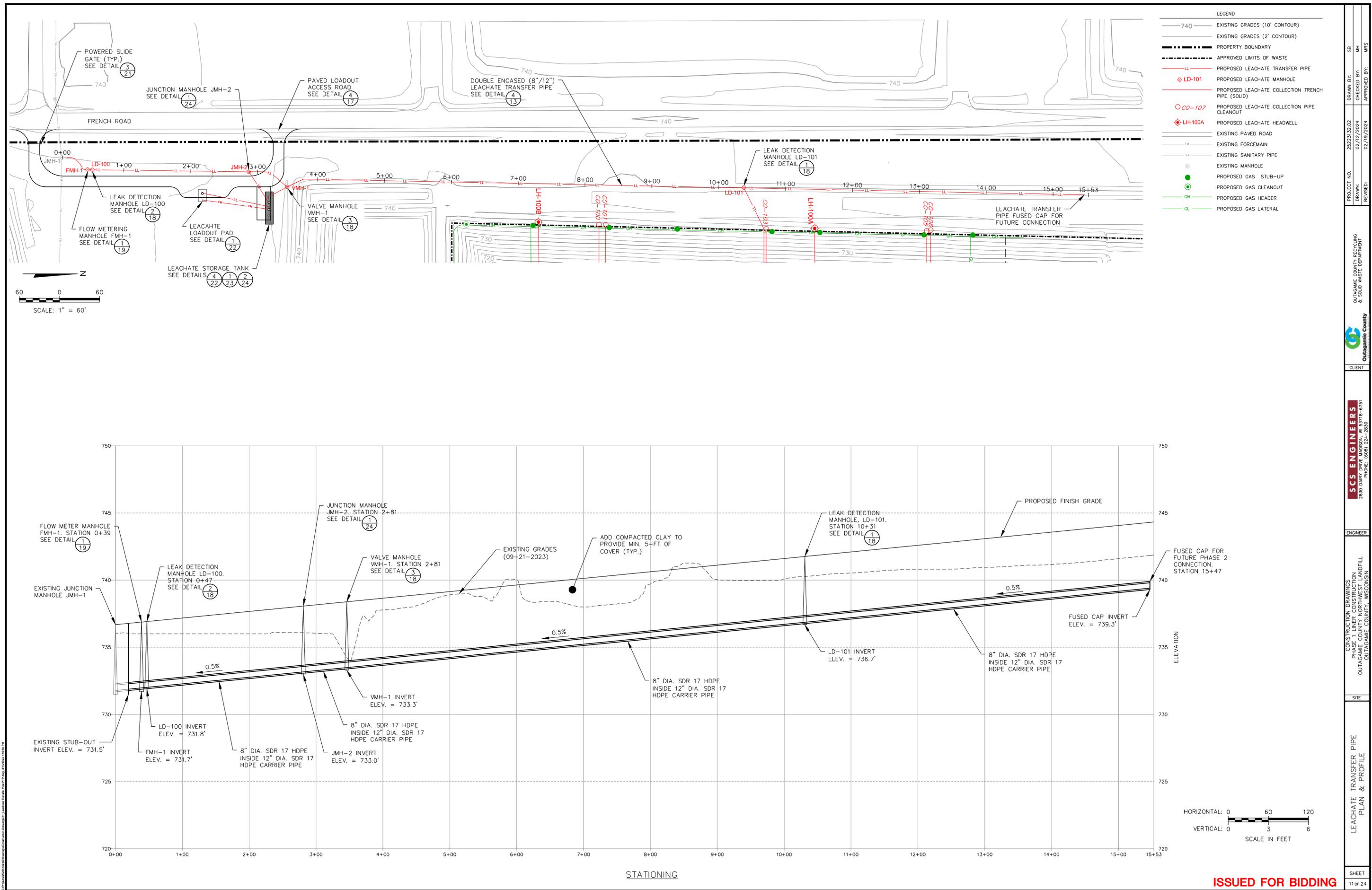
CROSS SECTION LOCATION MAP



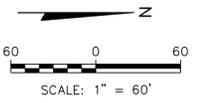
ENGINEERING CROSS SECTION E 842,300

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ENGINEER:	SCS ENGINEERS 2830 DARY DRIVE MADISON, WI 53718-6797 PHONE: (608) 224-2830		
SITE:	CONSTRUCTION DRAWINGS PHASE 1 LINER CONSTRUCTION OUTAGAMIE COUNTY NORTHWEST LANDFILL OUTAGAMIE COUNTY, WISCONSIN		
CROSS SECTIONS			
SHEET	10 OF 24		



- LEGEND**
- 740 — EXISTING GRADES (10' CONTOUR)
 - 740 — EXISTING GRADES (2' CONTOUR)
 - PROPERTY BOUNDARY
 - APPROVED LIMITS OF WASTE
 - LL — PROPOSED LEACHATE TRANSFER PIPE
 - ⊙ LD-101 — PROPOSED LEACHATE MANHOLE
 - PROPOSED LEACHATE COLLECTION TRENCH PIPE (SOLID)
 - CO-107 — PROPOSED LEACHATE COLLECTION PIPE CLEANOUT
 - ⊙ LH-100A — PROPOSED LEACHATE HEADWELL
 - EXISTING PAVED ROAD
 - EXISTING FORCEMAIN
 - SA — EXISTING SANITARY PIPE
 - ⊙ — EXISTING MANHOLE
 - — PROPOSED GAS STUB-UP
 - — PROPOSED GAS CLEANOUT
 - GH — PROPOSED GAS HEADER
 - GL — PROPOSED GAS LATERAL



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OUTAGAMIE COUNTY RECYCLING & SOLID WASTE DEPARTMENT
 Outagamie County

CLIENT

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 2830 DAIRY DRIVE MADISON, WI 53718-6751
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ENGINEER

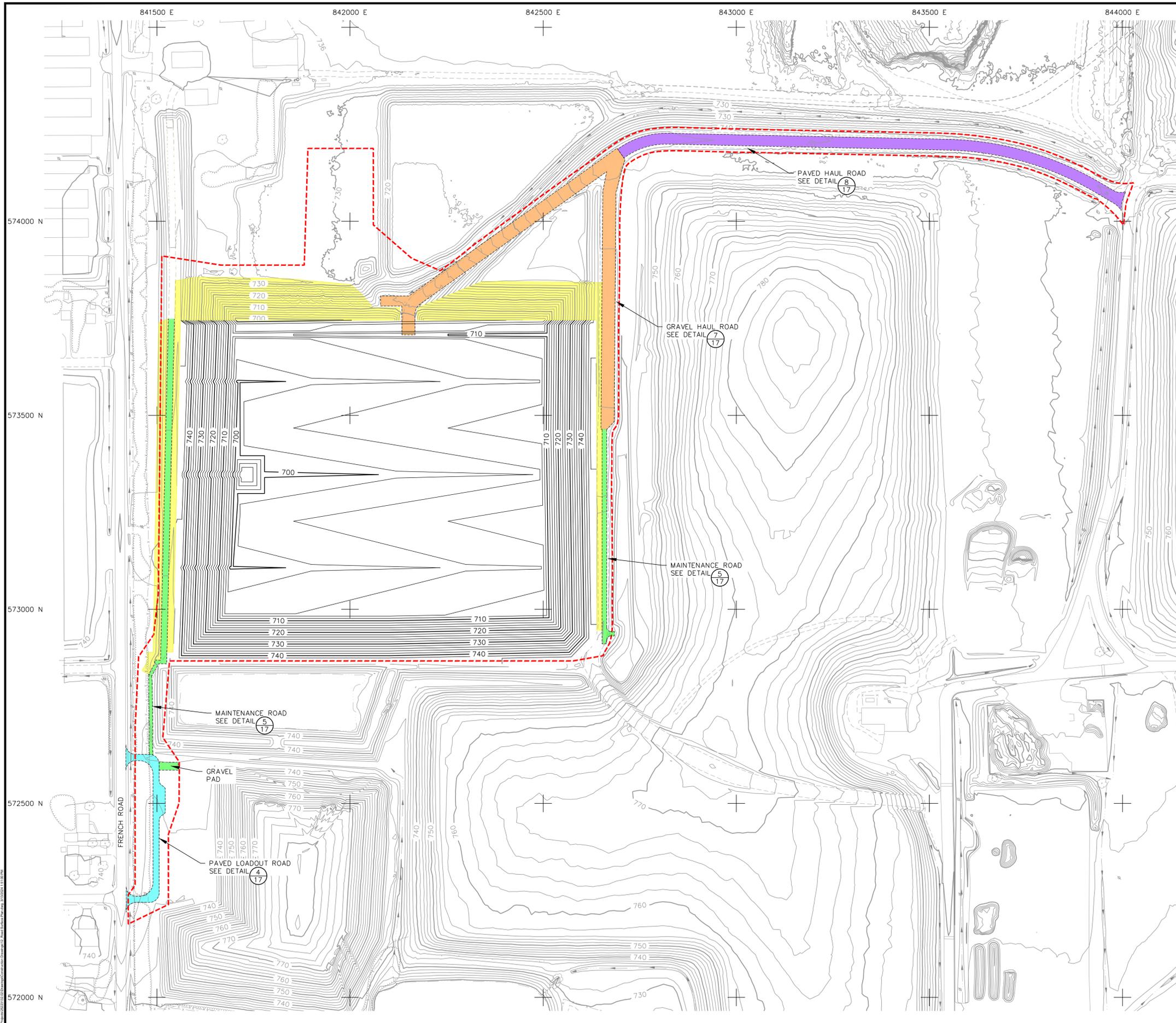
CONSTRUCTION DRAWINGS
 PHASE 1 LINER CONSTRUCTION
 OUTAGAMIE COUNTY NORTHWEST LANDFILL
 OUTAGAMIE COUNTY, WISCONSIN

SITE

LEACHATE TRANSFER PIPE
 PLAN & PROFILE

SHEET
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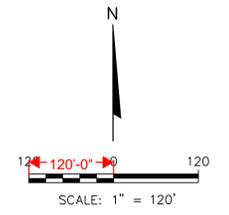


- LEGEND**
- PROPERTY BOUNDARY
 - - - - - APPROXIMATE LICENSED LIMITS OF WASTE PLACEMENT
 - - - - - APPROXIMATE LIMITS OF EXISTING FINAL COVER PLACEMENT - NElf
 - NElf PHASE LINE
 - 770--- EXISTING GROUND CONTOUR (10' INTERVAL)
 - EXISTING GROUND CONTOUR (2' INTERVAL)
 - UNPAVED ROAD
 - PAVED ROAD
 - TREE LINE
 - FENCE
 - WATER
 - DITCH/DRAINAGE
 - TREE LINE
 - HAUL ROAD
 - TREES AND / OR SHRUBS
 - BUILDING
 - CULVERT
 - GAS LINE AND EASEMENT
 - ATC 138KV OVERHEAD ELECTRICAL UTILITY LINE AND EASEMENT
 - STORM SEWER
 - STORM SEWER MANHOLE
 - WATER MAIN
 - HYDRANT/VALVE
 - LIGHT POLE
 - POWER POLE
 - SITE MONITORING WELL
 - SITE MONITORING WELL NEST
 - LEACHATE HEAD MONITORING WELL
 - GAS MONITORING PROBE
 - CLEANOUT
 - STAFF GAUGE
 - PRIVATE WELL
 - PB-1 NElf LEACHATE PUMP BUILDING
 - LCM-5 LOCATION CONTROL MONUMENT
 - CONSTRUCTION LIMITS
 - PAVED HAUL ROAD
 - GRAVEL HAUL ROAD
 - GRAVEL MAINTENANCE ROAD
 - PAVED LOADOUT ROAD
 - AREA TO BE TOPSOILED, SEEDED, FERTILIZED, AND MULCHED
 - APPROXIMATE LIMITS OF PHASE 1 CONSTRUCTION
 - 720--- PROPOSED BASE CONTOUR (10' INTERVAL)
 - PROPOSED BASE CONTOUR (2' INTERVAL)

- NOTES:**
- TOPOGRAPHY UPDATED BY RIVERVIEW DRONE SURVEY ON SEPTEMBER 21, 2023.
 - PAVING THE HAUL ROAD TO BE PERFORMED IN 2025. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ALL ROADS SURFACES WHICH MAY BE DAMAGED PRIOR TO FINAL COMPLETION.

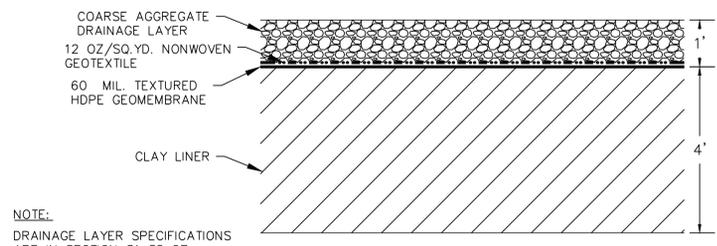
ROAD SURFACE QUANTITY SUMMARY:

TYPE:	AREA:
PAVED HAUL ROAD:	37,600 SF.
GRAVEL HAUL ROAD:	50,400 SF.
GRAVEL MAINTENANCE ROAD:	24,200 SF.
PAVED LOADOUT ROAD:	10,400 SF.
TOPSOILED, SEEDED, FERTILIZED, AND MULCHED:	138,400 SF.



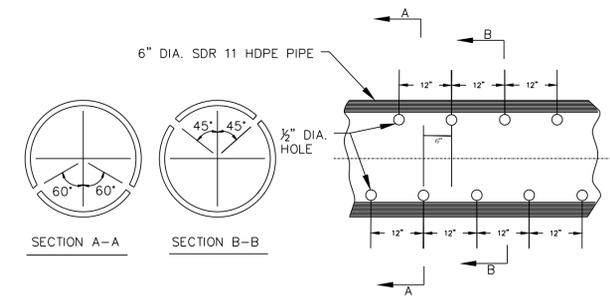
PROJECT NO. 252213E.02
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 CLIENT: OUTAGAME COUNTY RECYCLING & SOLID WASTE DEPARTMENT
 OUTAGAME COUNTY
SCS ENGINEERS
 2830 DAIRY DRIVE, MADISON, WI 53718-0751
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 CONSTRUCTION DRAWINGS
 PHASE 1 LINER CONSTRUCTION
 OUTAGAME COUNTY NORTHWEST LANDFILL
 OUTAGAME COUNTY, WISCONSIN
 ENGINEER
 ROAD SURFACING AND LANDSCAPING PLAN
 SHEET
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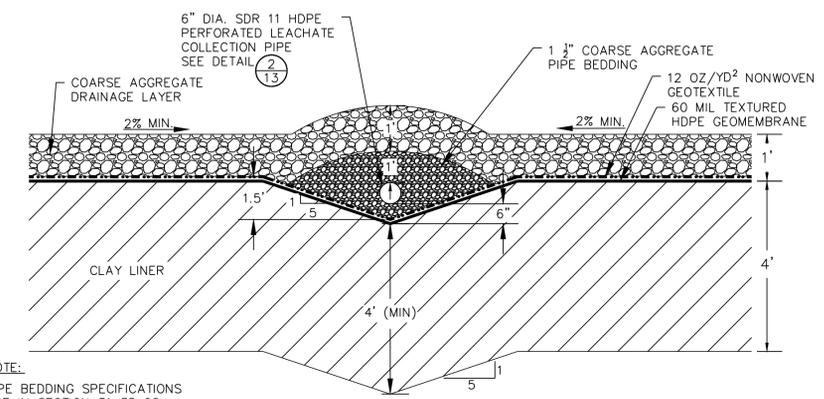


NOTE:
DRAINAGE LAYER SPECIFICATIONS
ARE IN SECTION 31 35 27.

1
13 TYPICAL LINER DETAIL
NOT TO SCALE

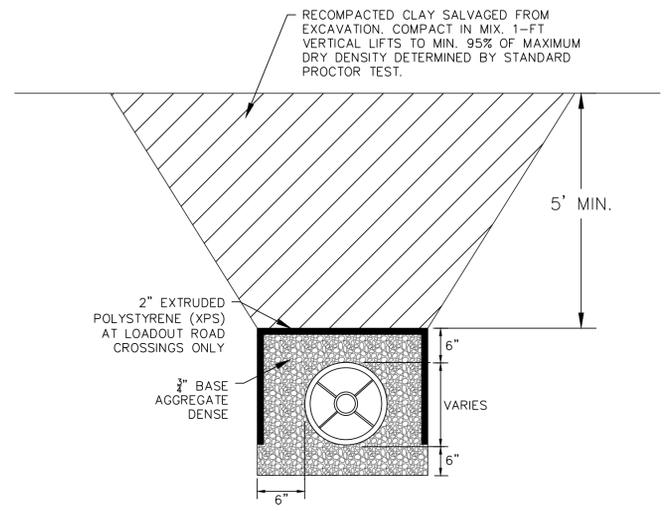


2
13 PIPE PERFORATION DETAIL
NOT TO SCALE

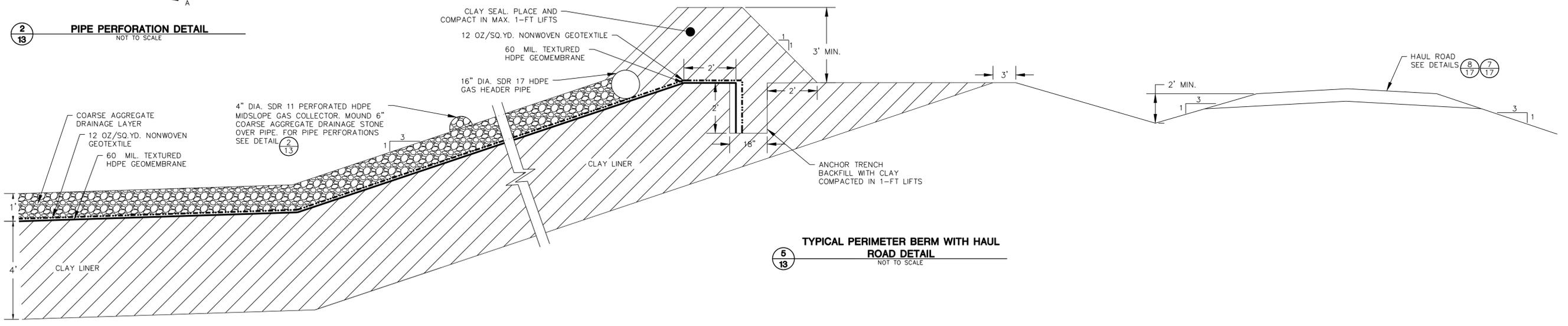


NOTE:
PIPE BEDDING SPECIFICATIONS
ARE IN SECTION 31 35 28.

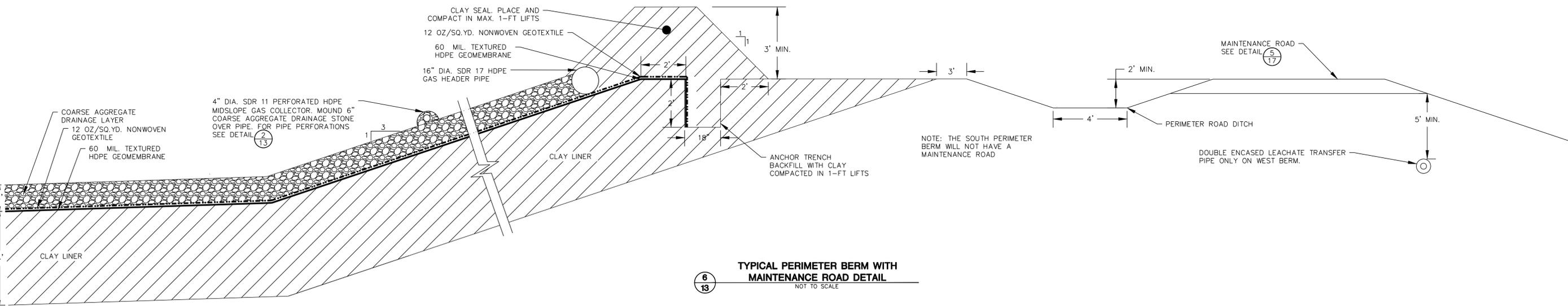
3
13 TYPICAL LEACHATE COLLECTION TRENCH DETAIL
NOT TO SCALE



4
13 TYPICAL DOUBLE-ENCASED PIPE TRENCH DETAIL
NOT TO SCALE



5
13 TYPICAL PERIMETER BERM WITH HAUL ROAD DETAIL
NOT TO SCALE

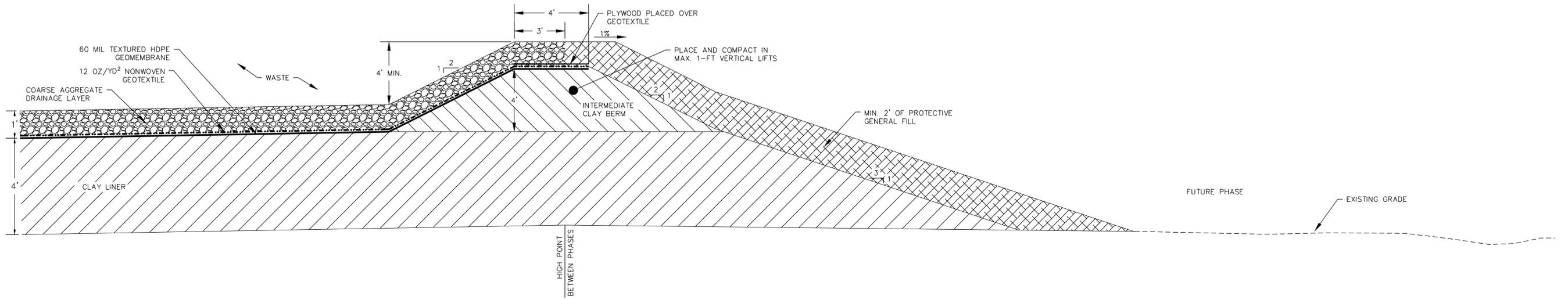


NOTE: THE SOUTH PERIMETER BERM WILL NOT HAVE A MAINTENANCE ROAD

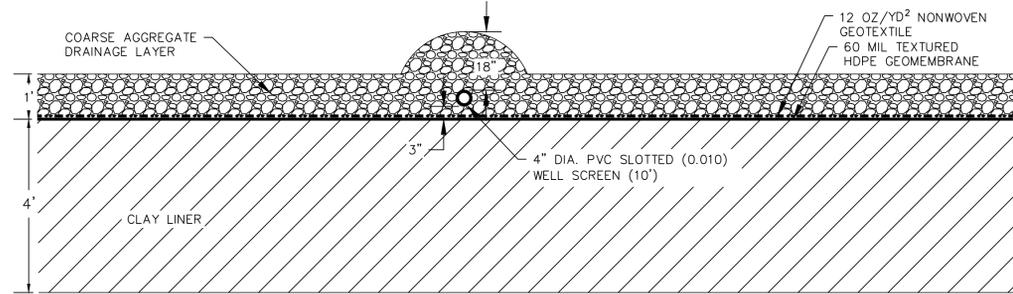
6
13 TYPICAL PERIMETER BERM WITH MAINTENANCE ROAD DETAIL
NOT TO SCALE

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ENGINEER: SCS ENGINEERS
2830 DARY DRIVE MADISON, WI 53718-0797
PHONE: (608) 224-2830
CONSTRUCTION DRAWINGS
PHASE 1 LINER CONSTRUCTION
OUTAGAMIE COUNTY NORTHWEST LANDFILL
OUTAGAMIE COUNTY, WISCONSIN
SITE
DETAILS
SHEET
13 OF 24

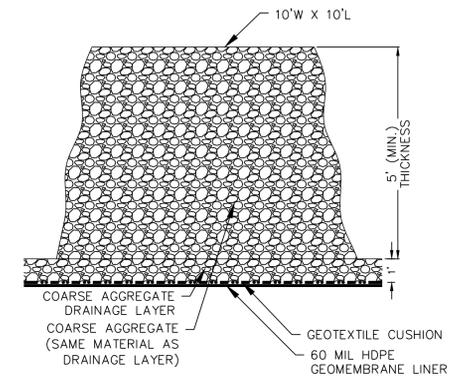
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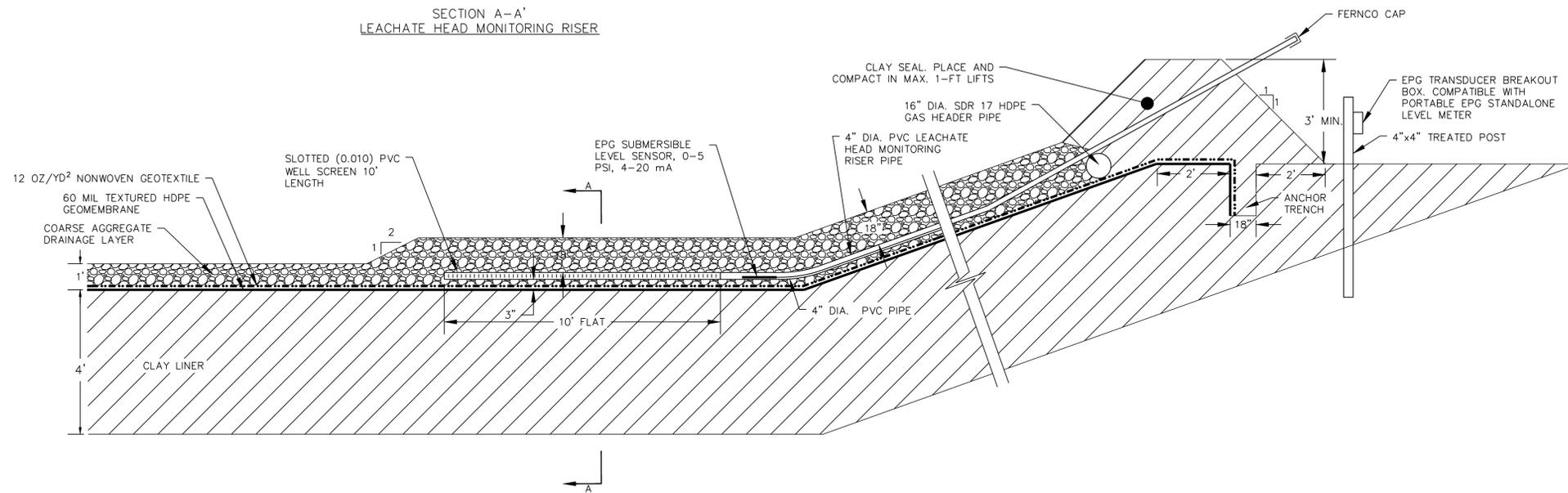
1
14 TYPICAL INTERMEDIATE BERM DETAIL
NOT TO SCALE



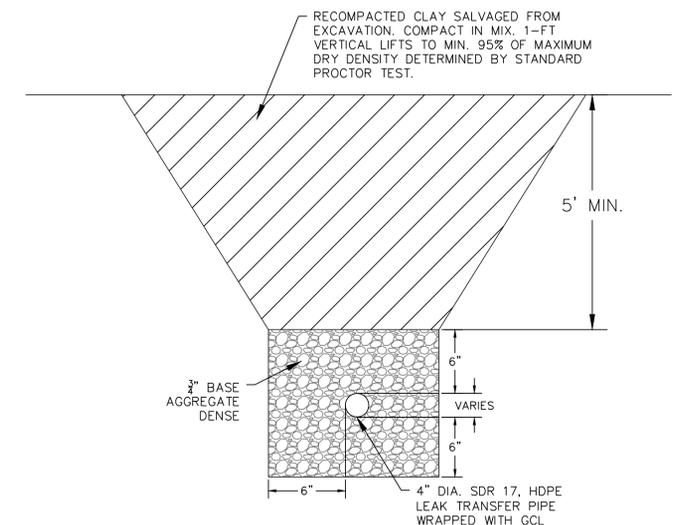
SECTION A-A'
LEACHATE HEAD MONITORING RISER



3
14 VERTICAL GAS EXTRACTION WELL STONE PILE DETAIL
NOT TO SCALE



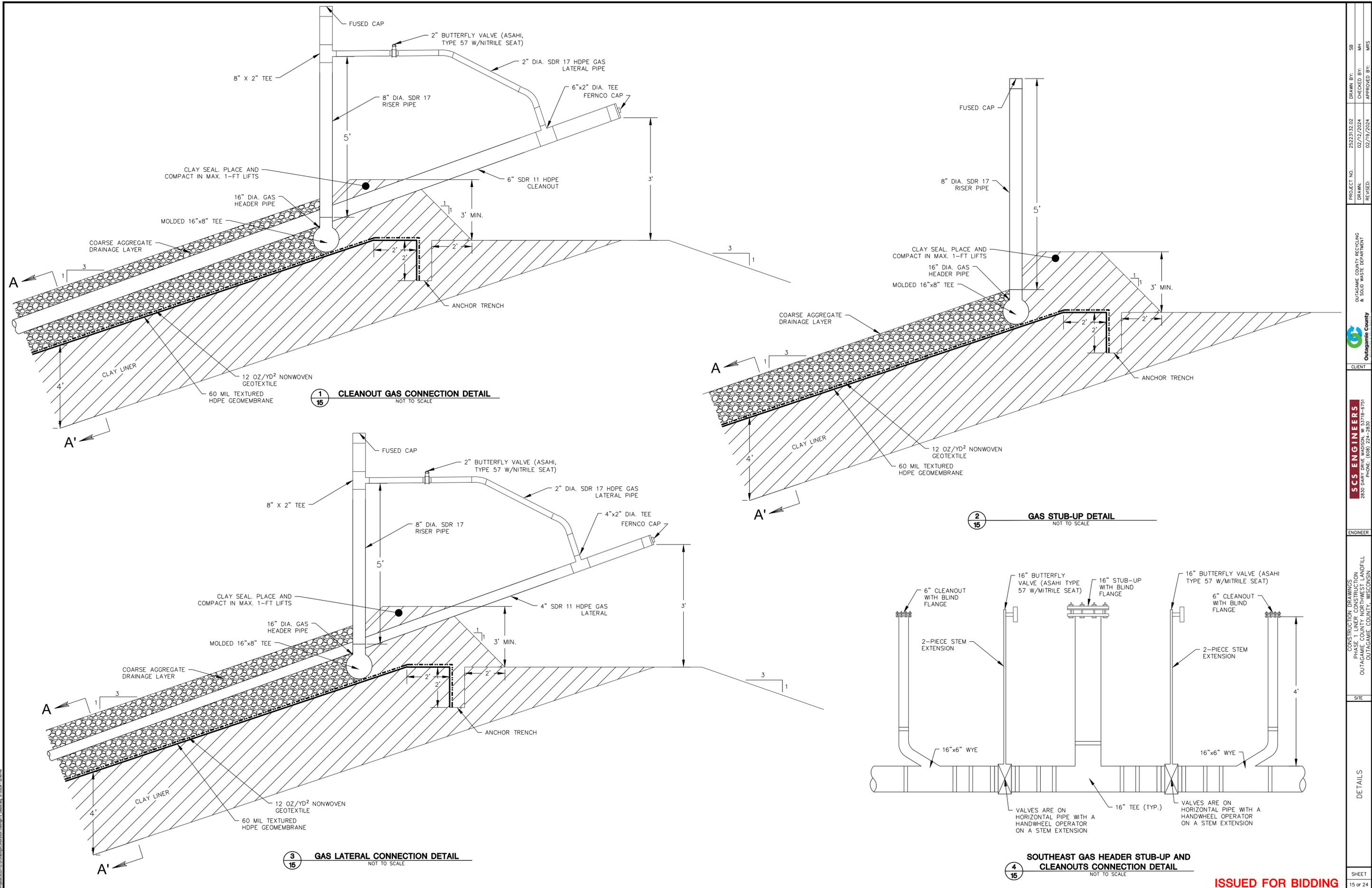
2
14 LEACHATE HEAD MONITORING RISER DETAIL
NOT TO SCALE



4
14 TYPICAL LEAK TRANSFER PIPE DETAIL
NOT TO SCALE

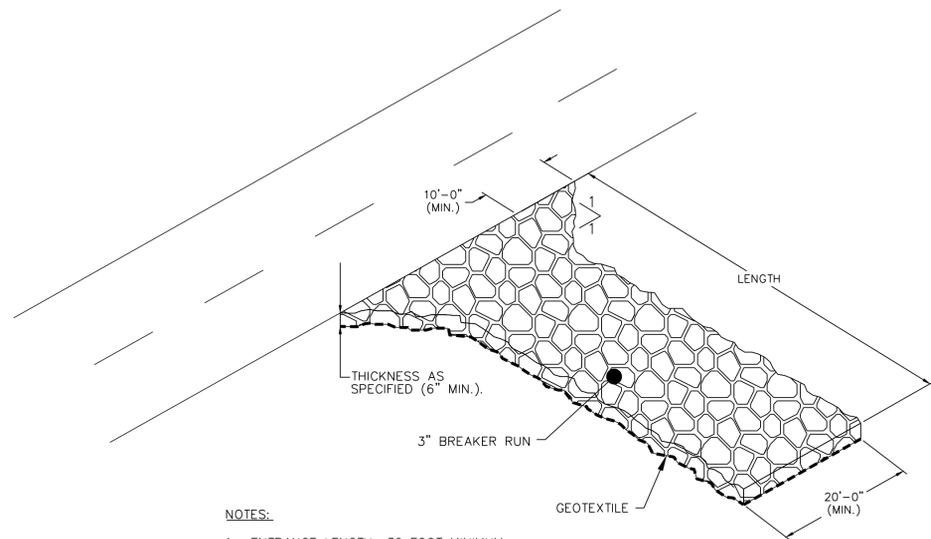
PROJECT NO. 25223132.02
DRAWN BY: SB
CHECKED BY: MH
APPROVED BY: MRS
DATE: 02/12/2024
REVISION: 02/19/2024
OUTAGAMIE COUNTY, RECYCLING & SOLID WASTE DEPARTMENT
Outagamie County
CLIENT
SCS ENGINEERS
2830 DARYL DRIVE MADISON, WI 53718-6797
PHONE: (608) 224-2830
ENGINEER
CONSTRUCTION DRAWINGS
PHASE 1 LINER CONSTRUCTION
OUTAGAMIE COUNTY NORTHWEST LANDFILL
OUTAGAMIE COUNTY, WISCONSIN
SITE
DETAILS
SHEET
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ISSUED FOR BIDDING



PROJECT NO.	2523132.02	DRAWN BY:	SB
DRAWN:	02/12/2024	CHECKED BY:	MH
REVISED:	02/19/2024	APPROVED BY:	MRS
OUTAGAMIE COUNTY, RESOLVING & RECORDS DEPARTMENT			
 CLIENT			
SCS ENGINEERS 2800 DUNAY DRIVE, MADISON, WI 53718-9751 PHONE: (608) 224-2830			
ENGINEER			
CONSTRUCTION DRAWINGS OUTAGAMIE COUNTY, NORTHWEST QUADRANT OUTAGAMIE COUNTY, WISCONSIN			
SITE			
DETAILS			
SHEET			

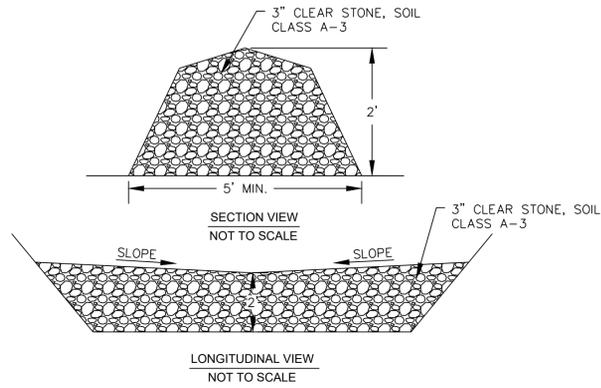
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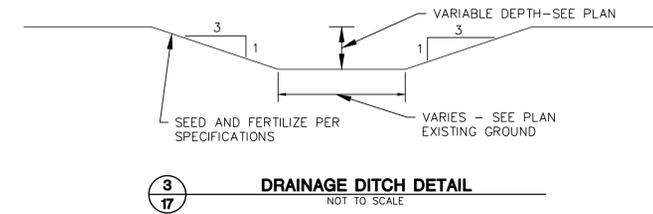
NOTES:

- ENTRANCE LENGTH: 30 FOOT MINIMUM. LENGTH OF ENTRANCE MAY BE INCREASED IF SEDIMENT TRACK-OUT OCCURS.
- INSTALL SUBGRADE AGGREGATE SEPARATION GEOTEXTILE BELOW STONE.

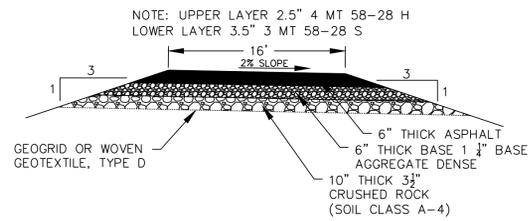
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TYPICAL TRACKING PAD DETAIL
NOT TO SCALE



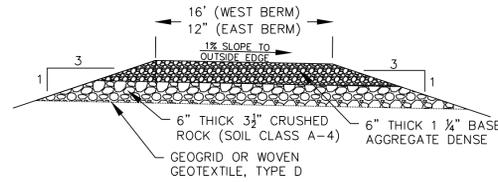
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ROCK CHECK DAM DETAIL
NOT TO SCALE



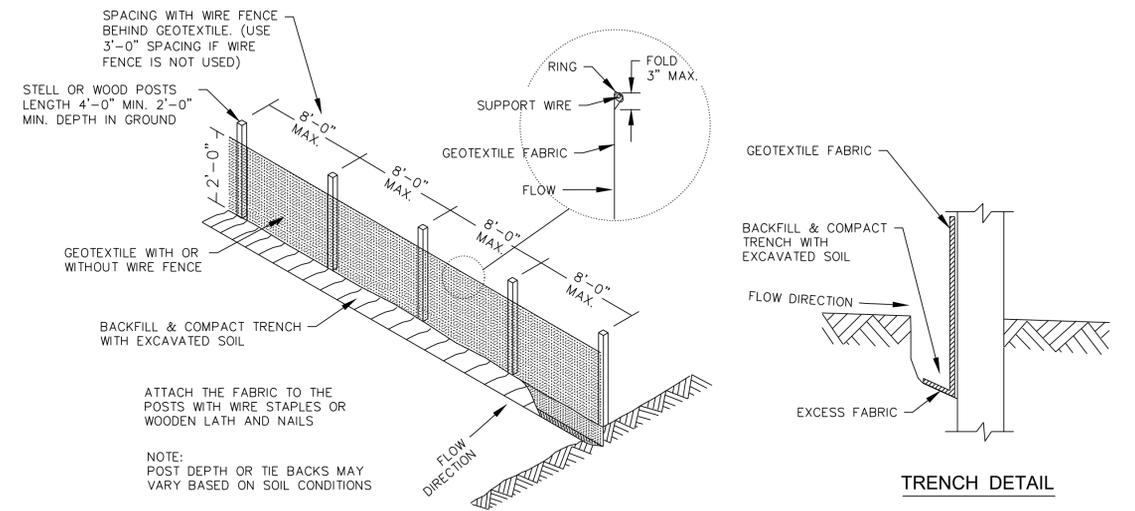
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DRAINAGE DITCH DETAIL
NOT TO SCALE



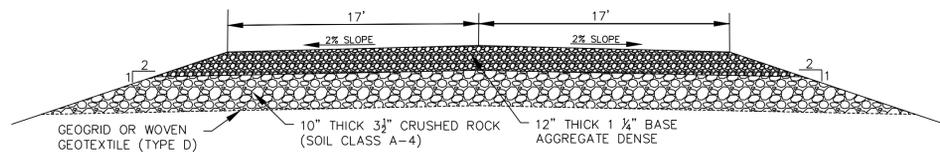
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TYPICAL PAVED LOADOUT ROAD SECTION DETAIL
NOT TO SCALE



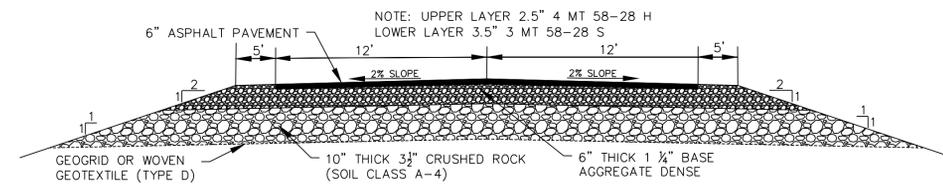
5
TYPICAL MAINTENANCE ROAD DETAIL
NOT TO SCALE



6
TYPICAL SILT FENCE DETAIL
NOT TO SCALE

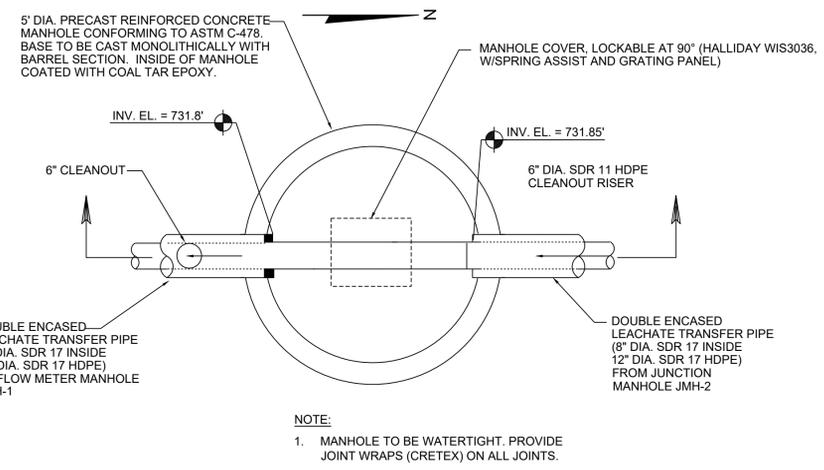


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TYPICAL GRAVEL HAUL ROAD DETAIL
NOT TO SCALE

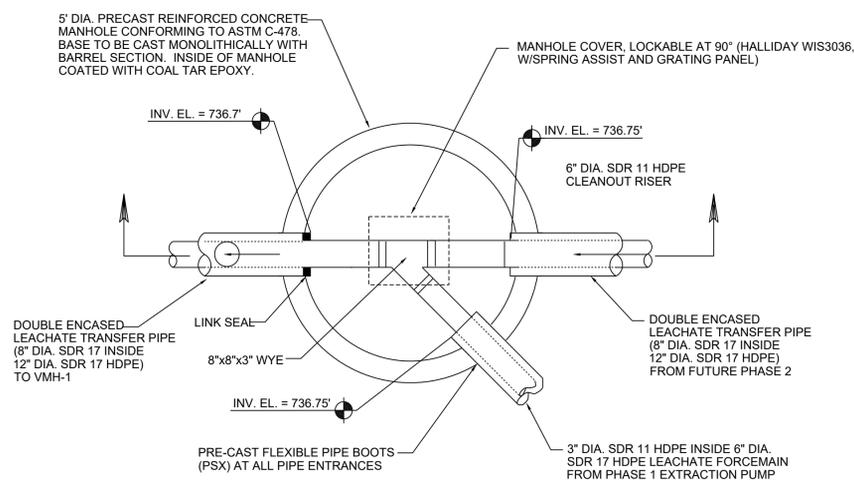


8
TYPICAL PAVED HAUL ROAD DETAIL
NOT TO SCALE

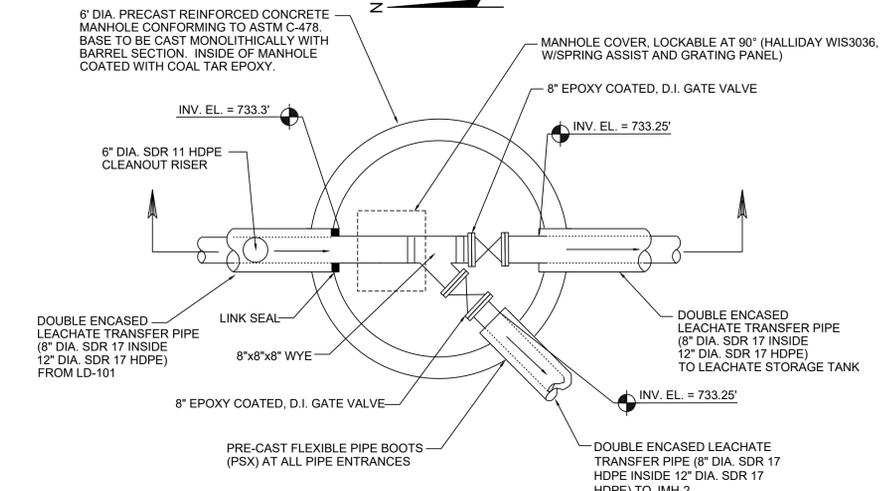
PROJECT NO. 25223132.02
 DRAWN BY: SB
 CHECKED BY: MH
 APPROVED BY: MRS
 DATE: 02/12/2024
 DATE: 02/19/2024
 CLIENT: Outagamie County
 ENGINEER: SCSE ENGINEERS
 2830 DARRY DRIVE MADISON, WI 53718-0791
 PHONE: (608) 224-2830
 CONSTRUCTION DRAWINGS
 PHASE 1 LINER CONSTRUCTION
 OUTAGAMIE COUNTY NORTHWEST LANDFILL
 OUTAGAMIE COUNTY, WISCONSIN
 SHEET
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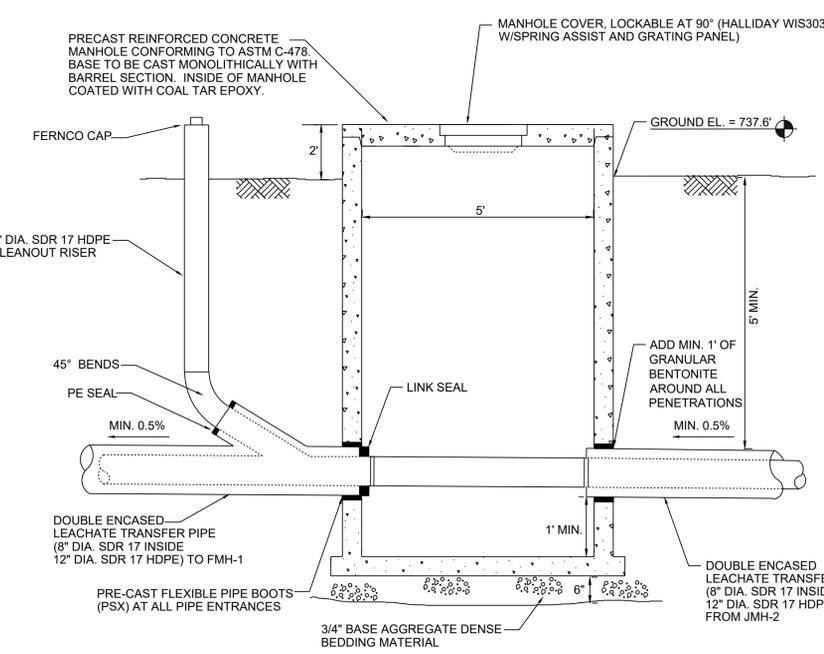
PLAN VIEW
NOT TO SCALE



PLAN VIEW
NOT TO SCALE



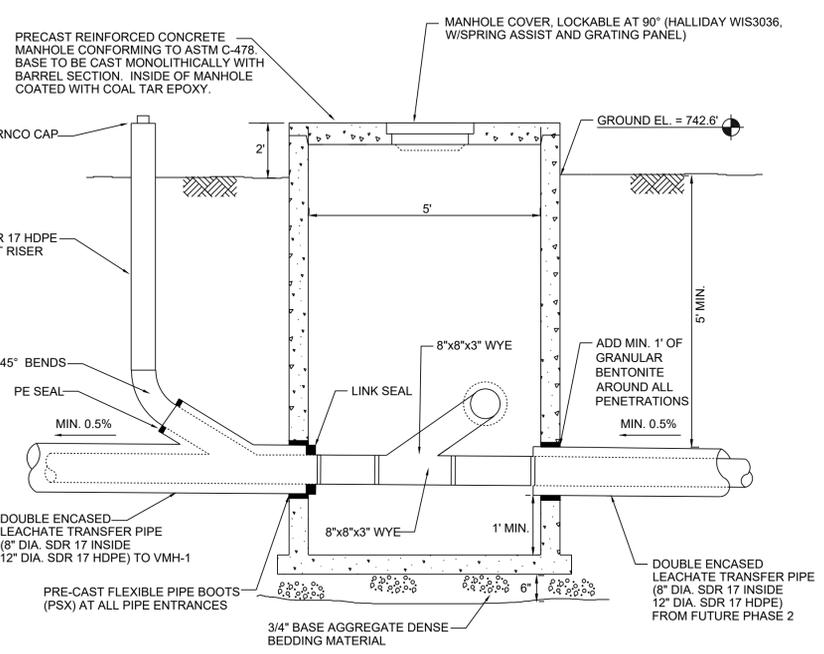
PLAN VIEW
NOT TO SCALE



SECTION
NOT TO SCALE

**LEAK DETECTION MANHOLE LD-100
DETAIL**
NOT TO SCALE

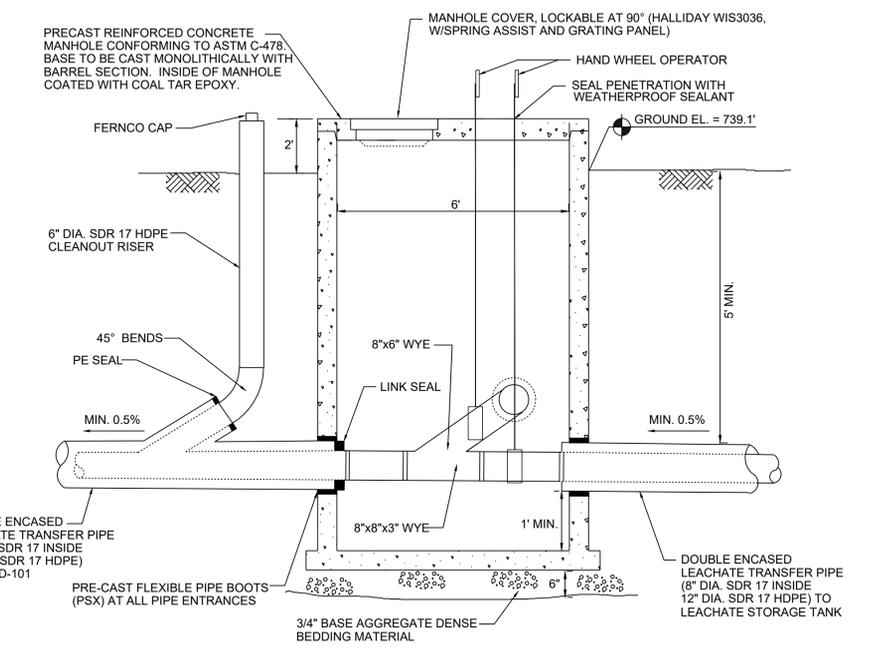
2
18



SECTION
NOT TO SCALE

**LEAK DETECTION MANHOLE LD-101
DETAIL**
NOT TO SCALE

1
18

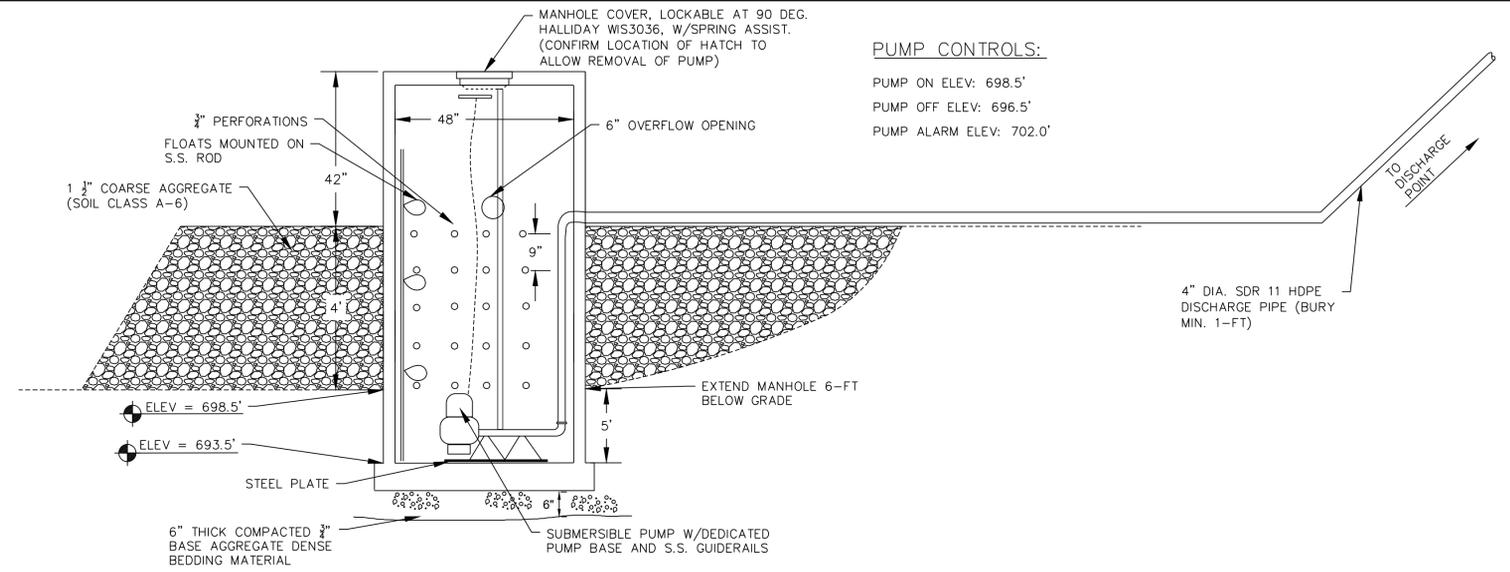
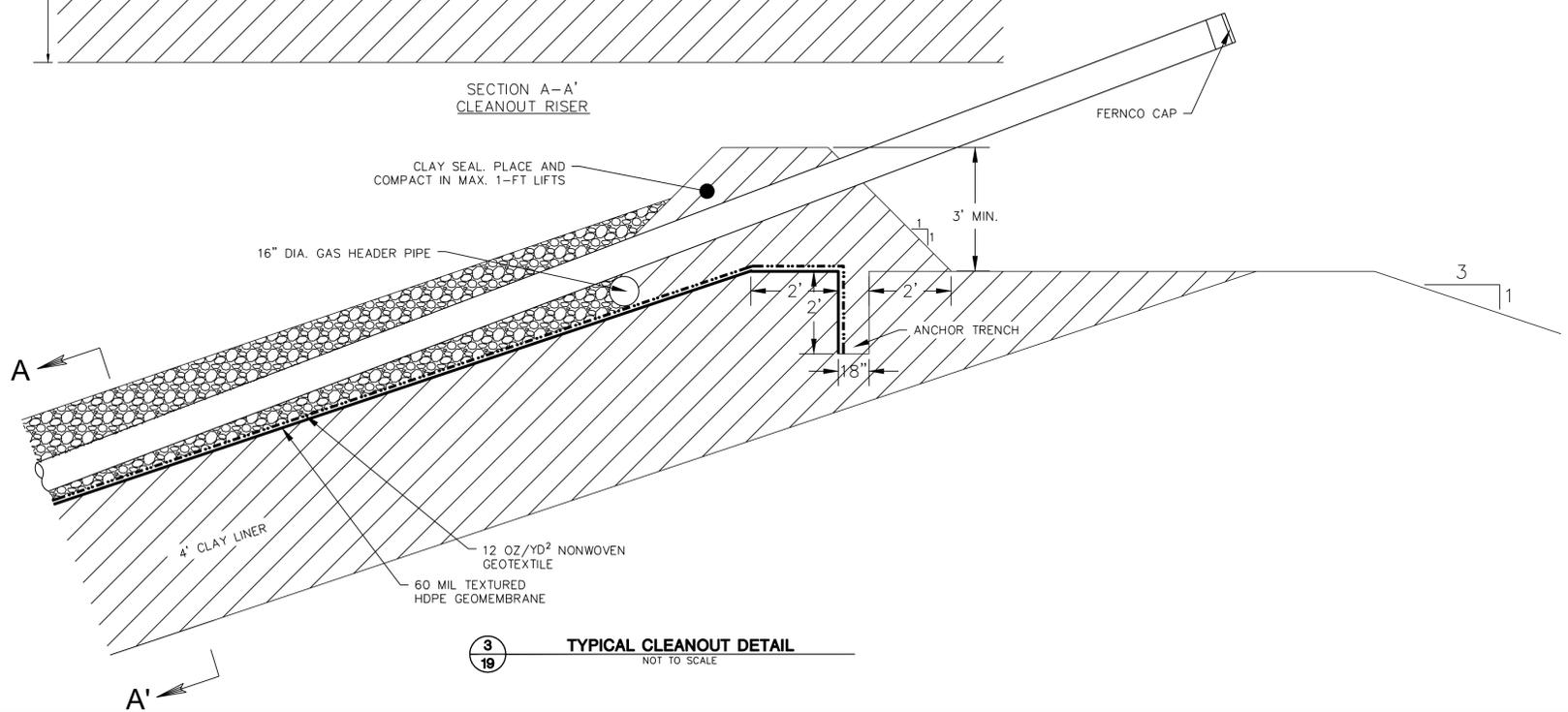
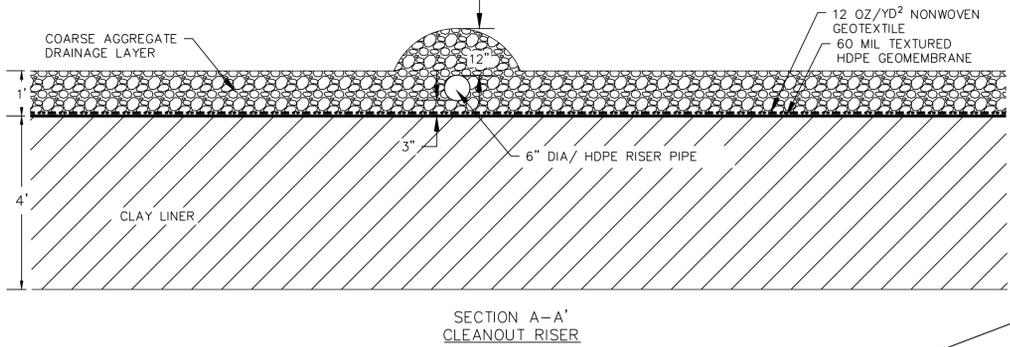
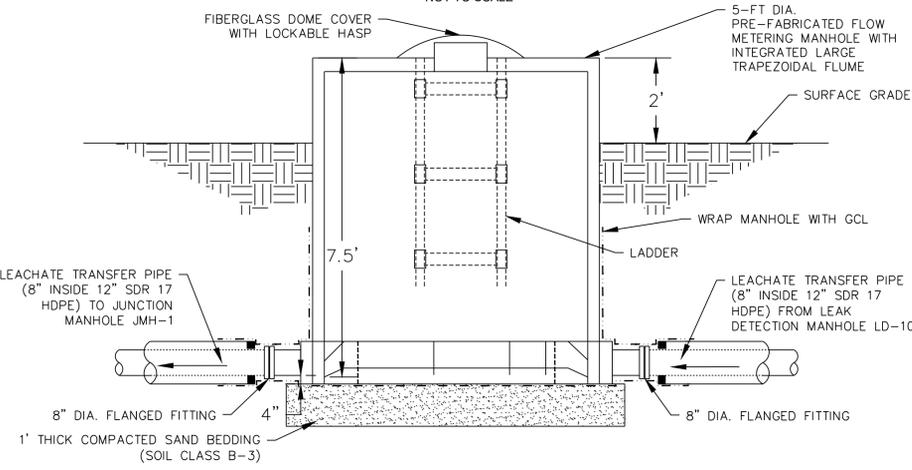
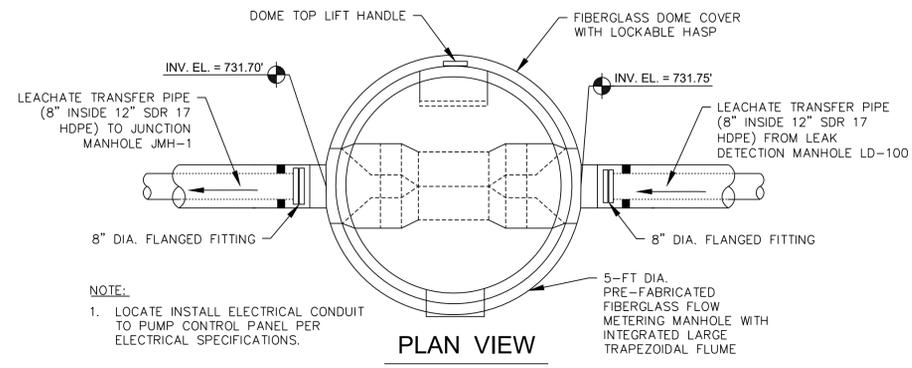


SECTION
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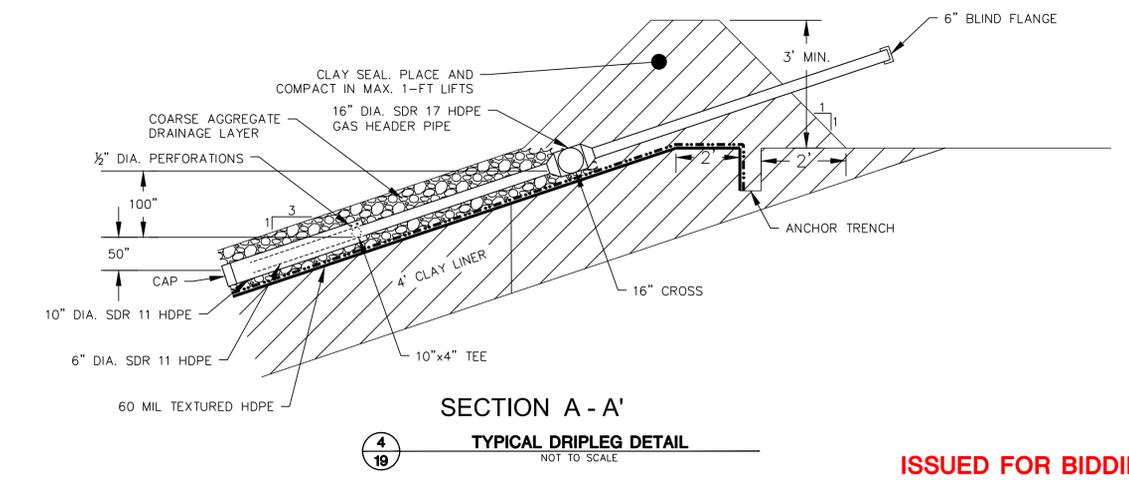
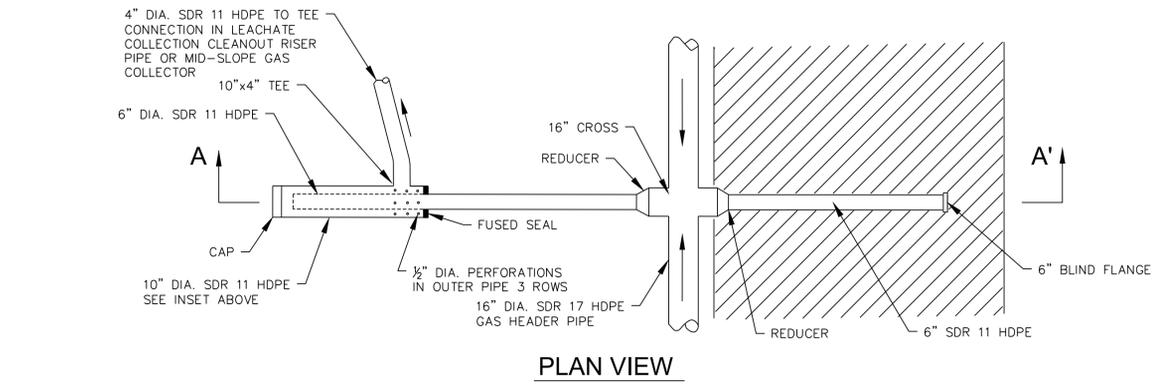
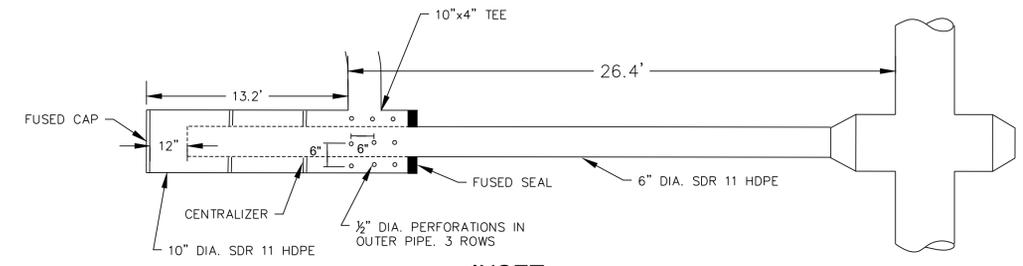
VALVE MANHOLE VMH-1 DETAIL
NOT TO SCALE

3
18

ISSUED FOR BIDDING

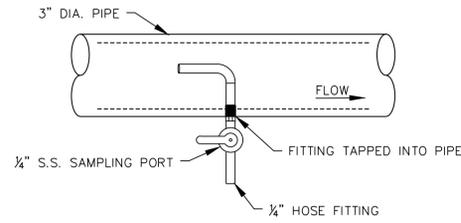


PUMP CONTROLS:
 PUMP ON ELEV: 698.5'
 PUMP OFF ELEV: 696.5'
 PUMP ALARM ELEV: 702.0'

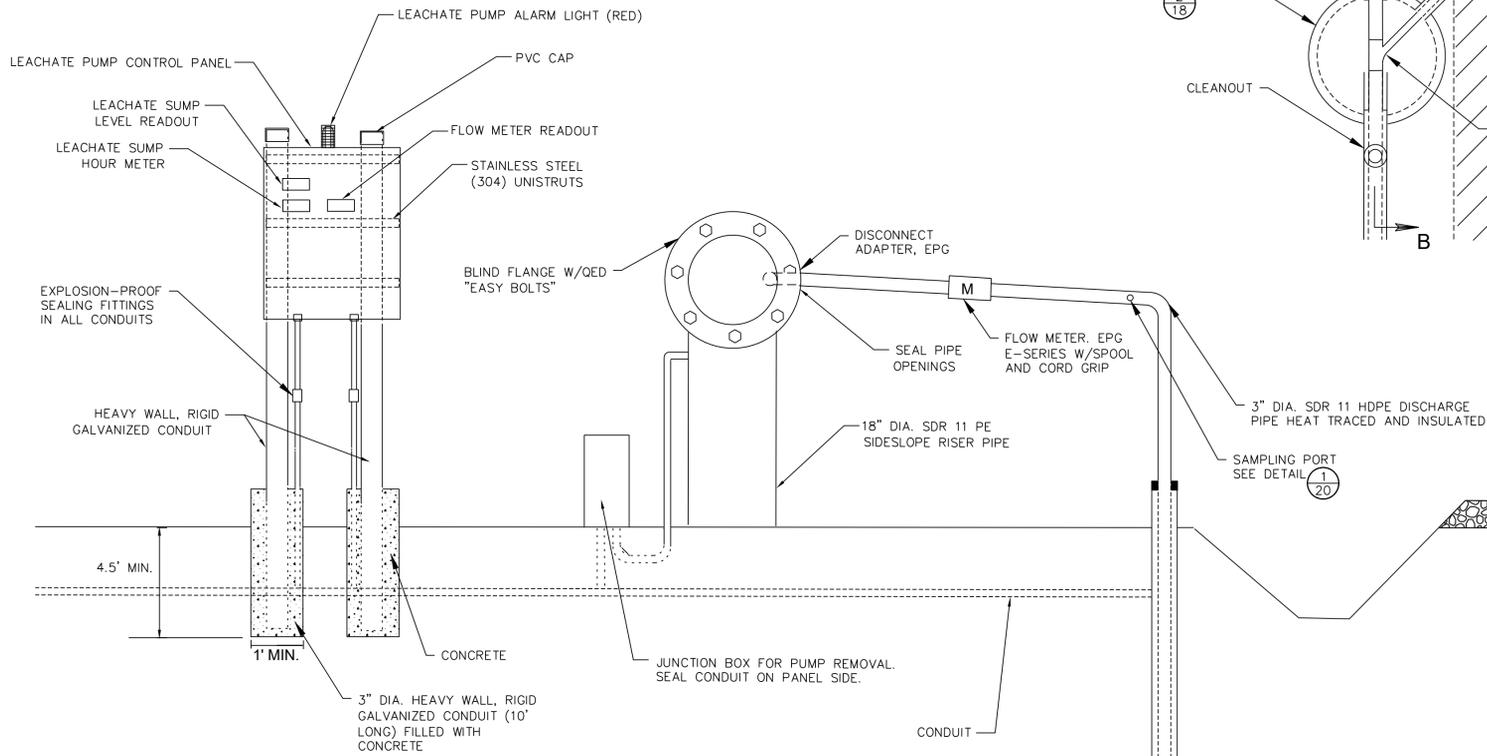


PROJECT NO. 2523132.02
 DRAWN BY: SB
 CHECKED BY: MH
 DATE: 02/12/2024
 REVISIONS: 02/19/2024
 CLIENT: OUTAGAMIE COUNTY RECYCLING & SOLID WASTE DEPARTMENT
 ENGINEER: SCS ENGINEERS
 2830 DARY DRIVE, MADISON, WI 53718-9755
 PHONE: (608) 224-2830
 CONSTRUCTION DRAWINGS
 PHASE 1 LINER CONSTRUCTION
 OUTAGAMIE COUNTY NORTHWEST LANDFILL
 OUTAGAMIE COUNTY, WISCONSIN
 SHEET 19 OF 24

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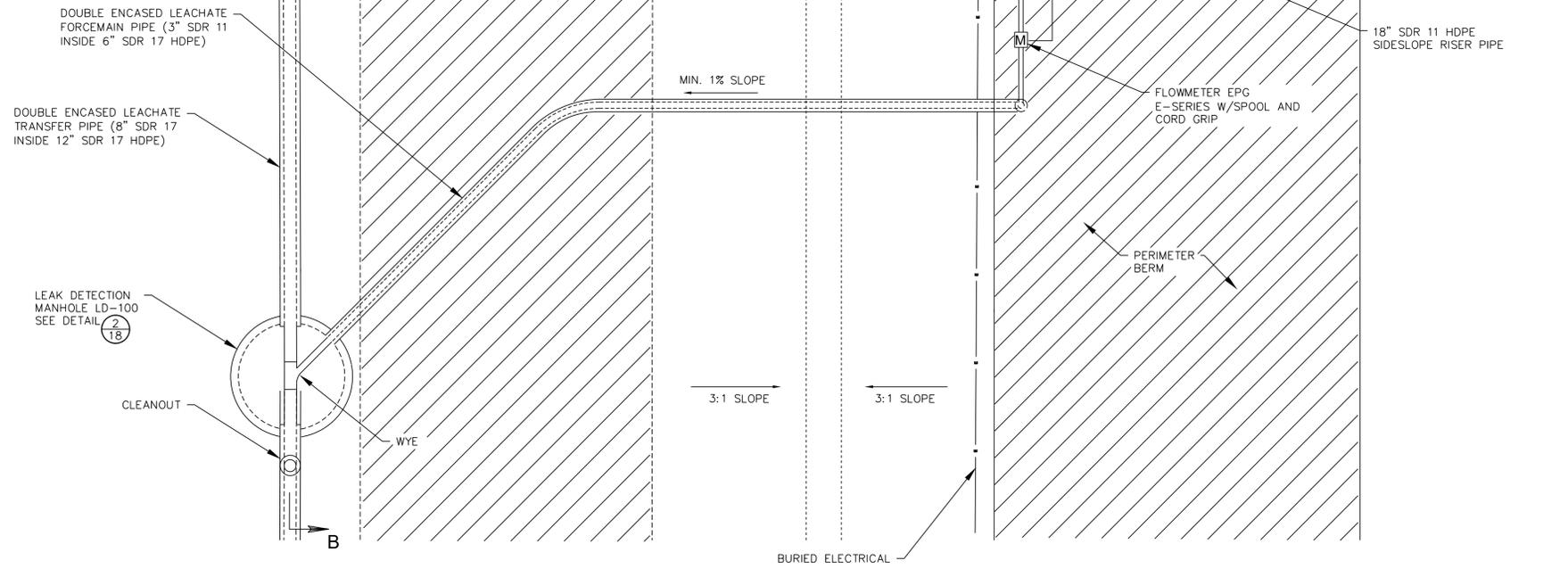
1
20 SAMPLING PORT DETAIL
NOT TO SCALE



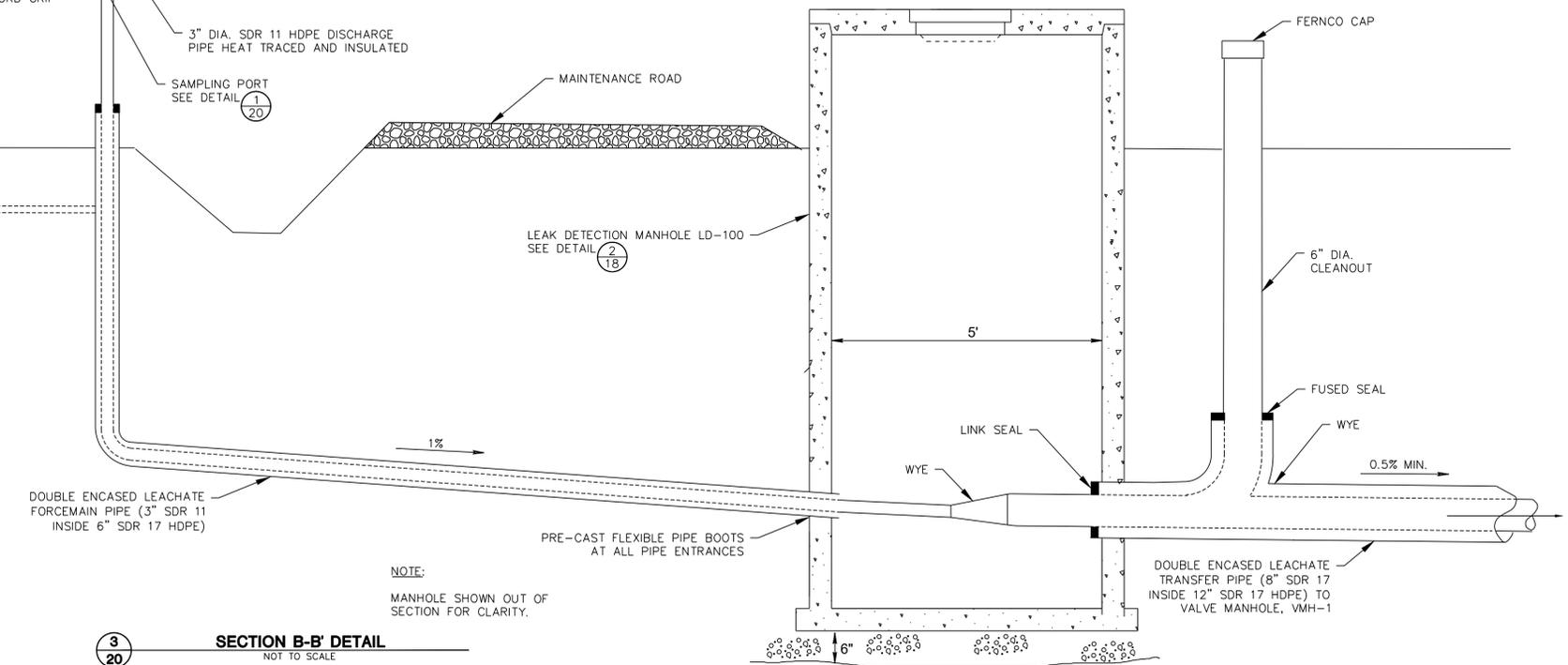
CONTROL PANEL NOTES:

1. ALL HARDWARE TO BE STAINLESS STEEL (304)
2. ALL CONTROLS AND METERS TO BE INSTALLED IN STAINLESS STEEL (304) NEMA 4X ENCLOSURES
3. PUMP CONTROL PANELS TO BE PROVIDED BY PUMP MANUFACTURERS.
4. PROVIDE SEAL-OFF FOR ALL CONDUITS PENETRATING THE GROUND. PROVIDE 10' OF PVC COATED RIGID GALVANIZED STEEL CONDUIT FROM THE SEAL-OFF TO THE PVC CONDUIT UNDER GRADE. ALL ABOVE GROUND CONDUIT SHALL BE RIGID GALVANIZED STEEL.

3
20 SECTION B-B DETAIL
NOT TO SCALE

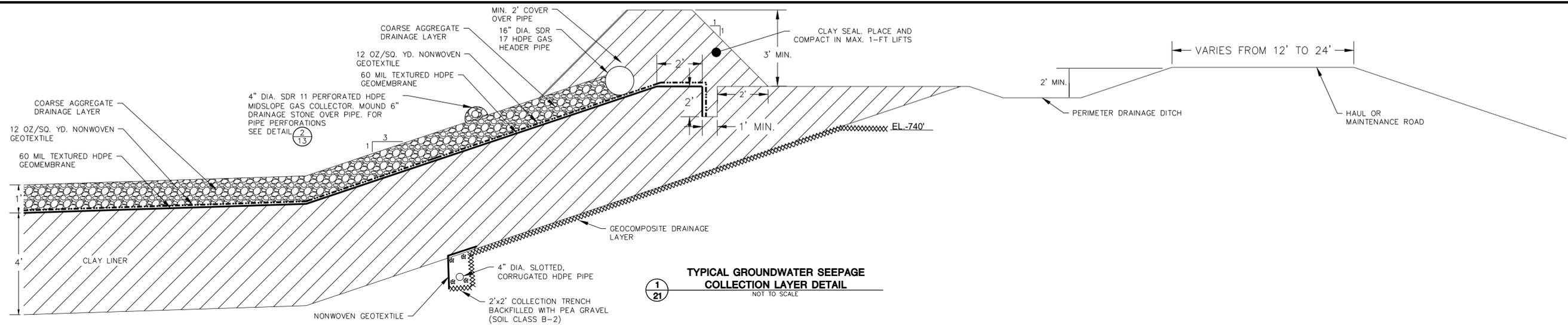


2
20 LEACHATE EXTRACTION SYSTEM - PLAN
VIEW DETAIL
NOT TO SCALE

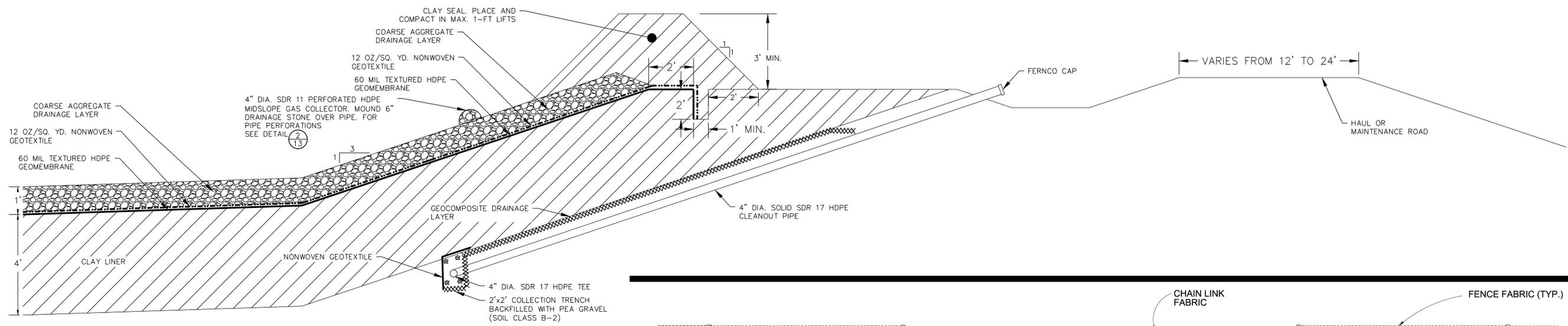


NOTE:
MANHOLE SHOWN OUT OF SECTION FOR CLARITY.

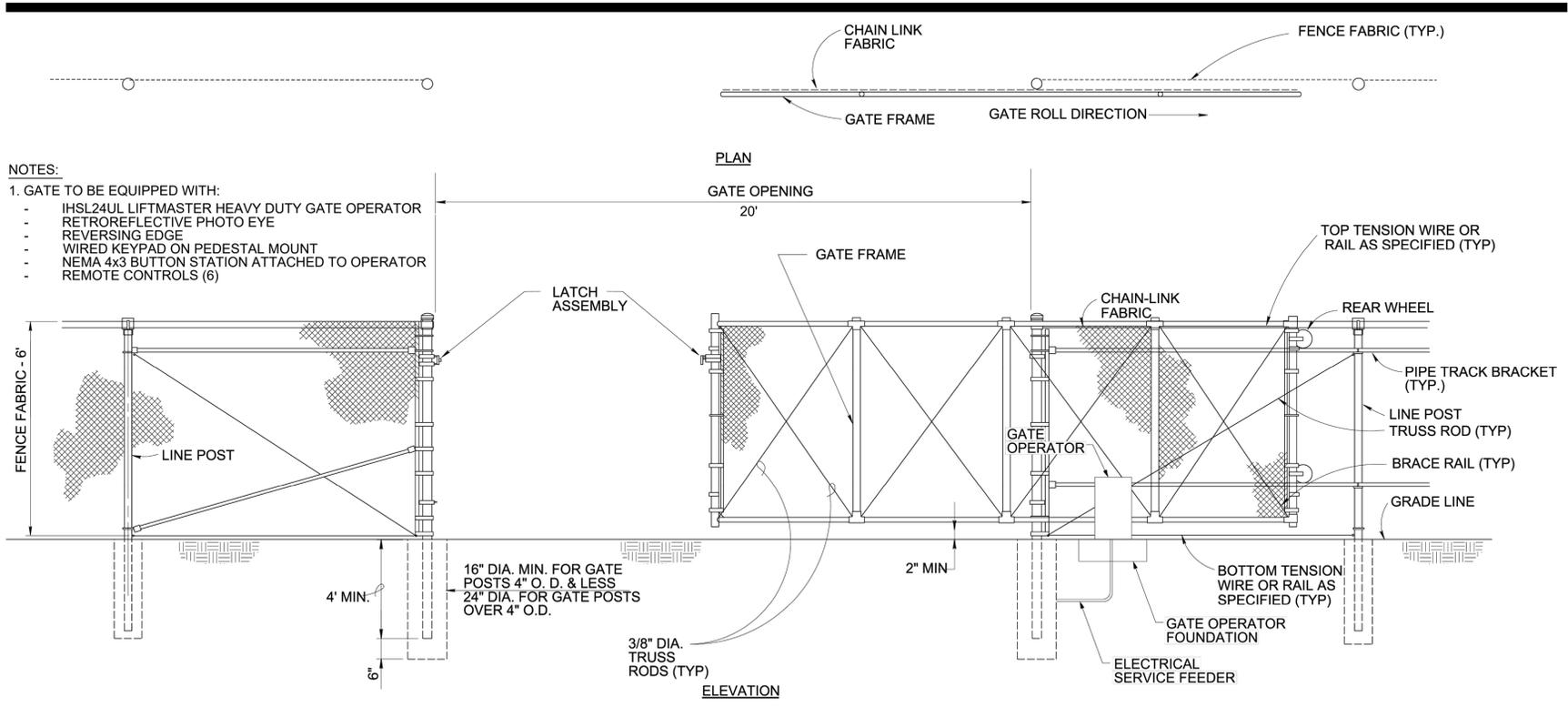
ISSUED FOR BIDDING



1
21
TYPICAL GROUNDWATER SEEPAGE COLLECTION LAYER DETAIL
NOT TO SCALE



2
21
TYPICAL GROUNDWATER CLEANOUT PIPE DETAIL
NOT TO SCALE



3
21
POWERED SLIDE GATE DETAIL
NOT TO SCALE

- NOTES:**
- GATE TO BE EQUIPPED WITH:
 - IHSL24UL LIFTMASTER HEAVY DUTY GATE OPERATOR
 - RETROREFLECTIVE PHOTO EYE
 - REVERSING EDGE
 - WIRED KEYPAD ON PEDESTAL MOUNT
 - NEMA 4x3 BUTTON STATION ATTACHED TO OPERATOR
 - REMOTE CONTROLS (6)

PROJECT NO. 2523132.02
 DRAWN BY: SB
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 REVISIONS: 02/19/2024
 MRS

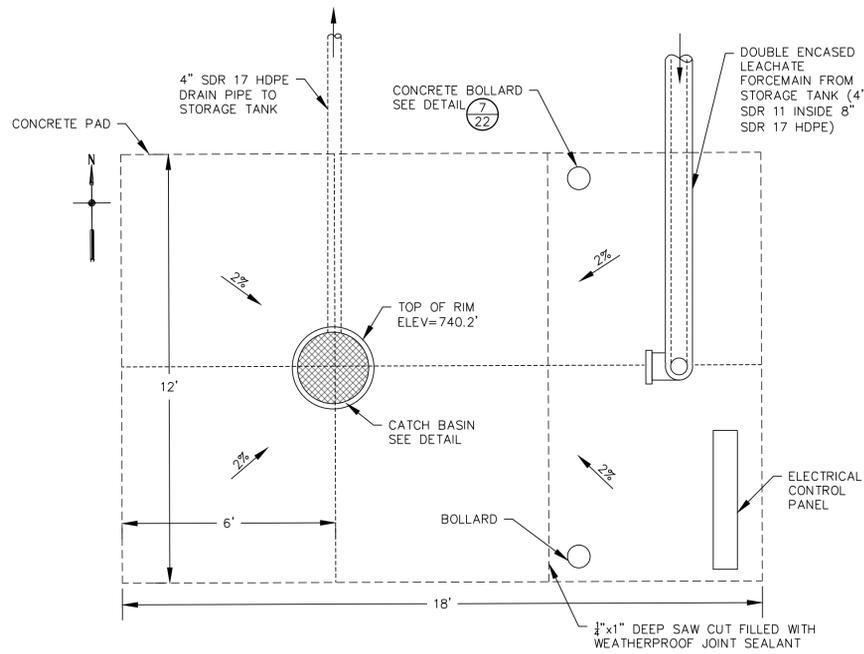
OUTAGAMIE COUNTY RECYCLING & SOLID WASTE DEPARTMENT
 CLIENT

SCS ENGINEERS
 2830 DAIRY DRIVE, MADISON, WI 53718-6751
 PHONE: (608) 224-8830
 ENGINEER

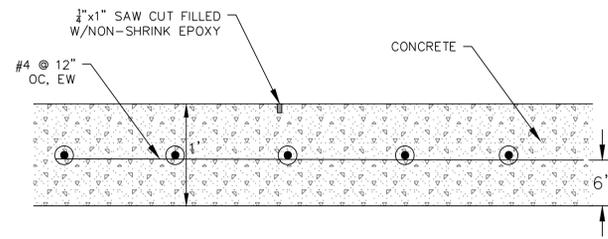
CONSTRUCTION DRAWINGS
 PHASE 1 LINER CONSTRUCTION
 OUTAGAMIE COUNTY NORTHWEST LANDFILL
 OUTAGAMIE COUNTY, WISCONSIN
 SITE

DETAILS
 SHEET
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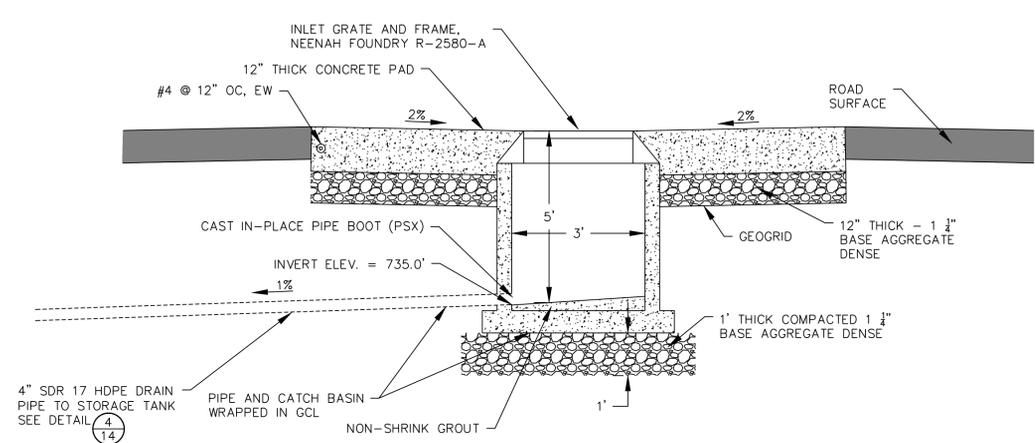
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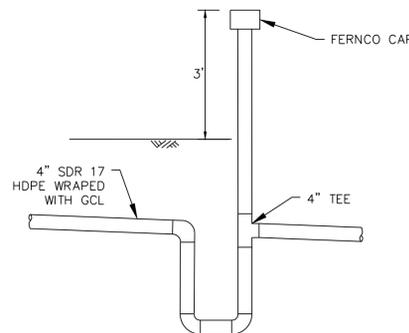
1
22 LEACHATE LOADOUT PAD PLAN VIEW
DETAIL
NOT TO SCALE



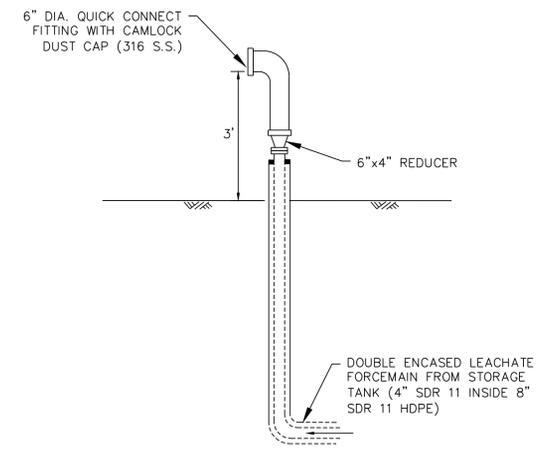
2
22 LOADOUT PAD - SECTION DETAIL
NOT TO SCALE



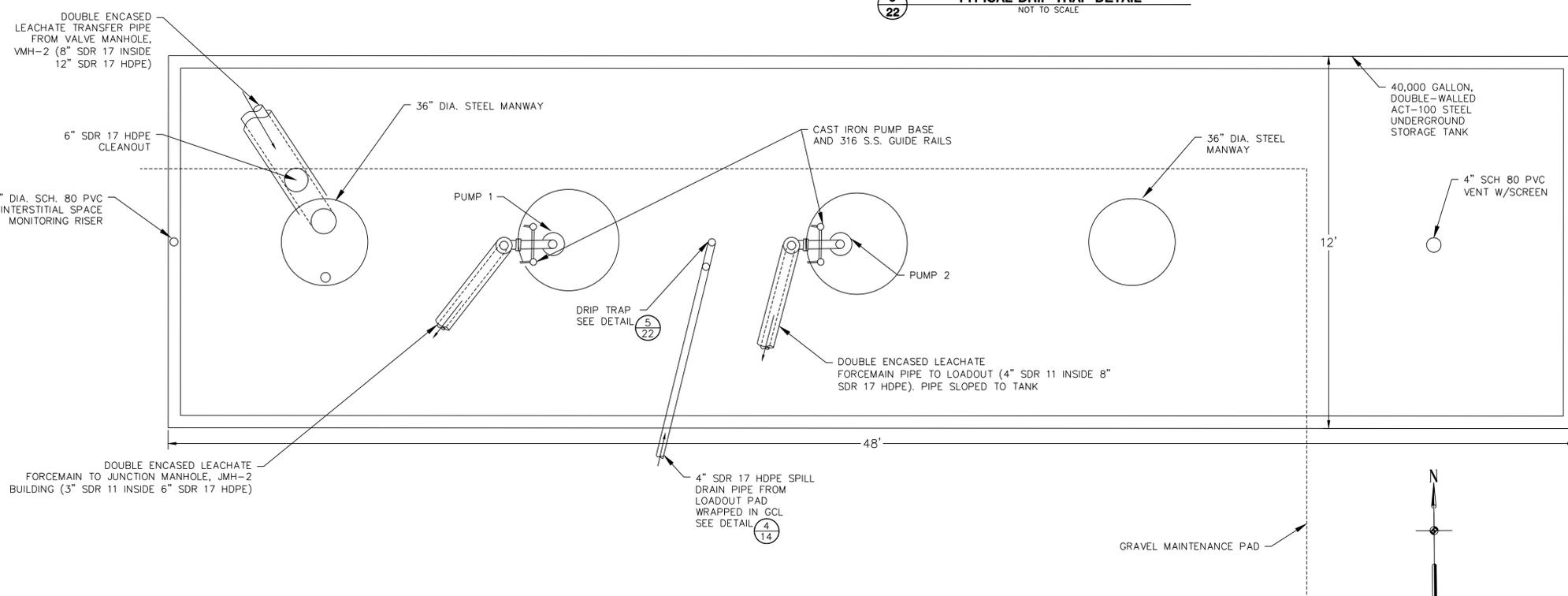
3
22 CATCH BASIN DETAIL
NOT TO SCALE



5
22 TYPICAL DRIP-TRAP DETAIL
NOT TO SCALE



6
22 TYPICAL DRIP-TRAP DETAIL
NOT TO SCALE



4
22 LEACHATE STORAGE TANK - PLAN VIEW
DETAIL
NOT TO SCALE

NOTES:

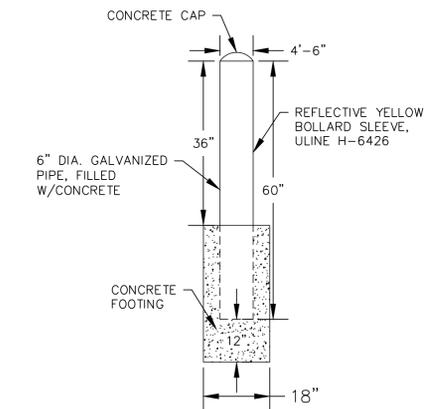
1. MANUFACTURER - LANNON TANK COMPANY OR APPROVED EQUAL
2. CAPACITY - 40,000 GALLON
3. STEEL TANK INSTITUTE ACT-100
4. 100 MIL FRP LAMINATE EXTERIOR
5. INTERIOR COATED WITH 2 COATS TNEC #6 EPOXY, MIN. 10 MIL
6. DEADMAN ANCHORING PACKAGE PER TANK MANUFACTURER

PUMP 1 OPERATION:

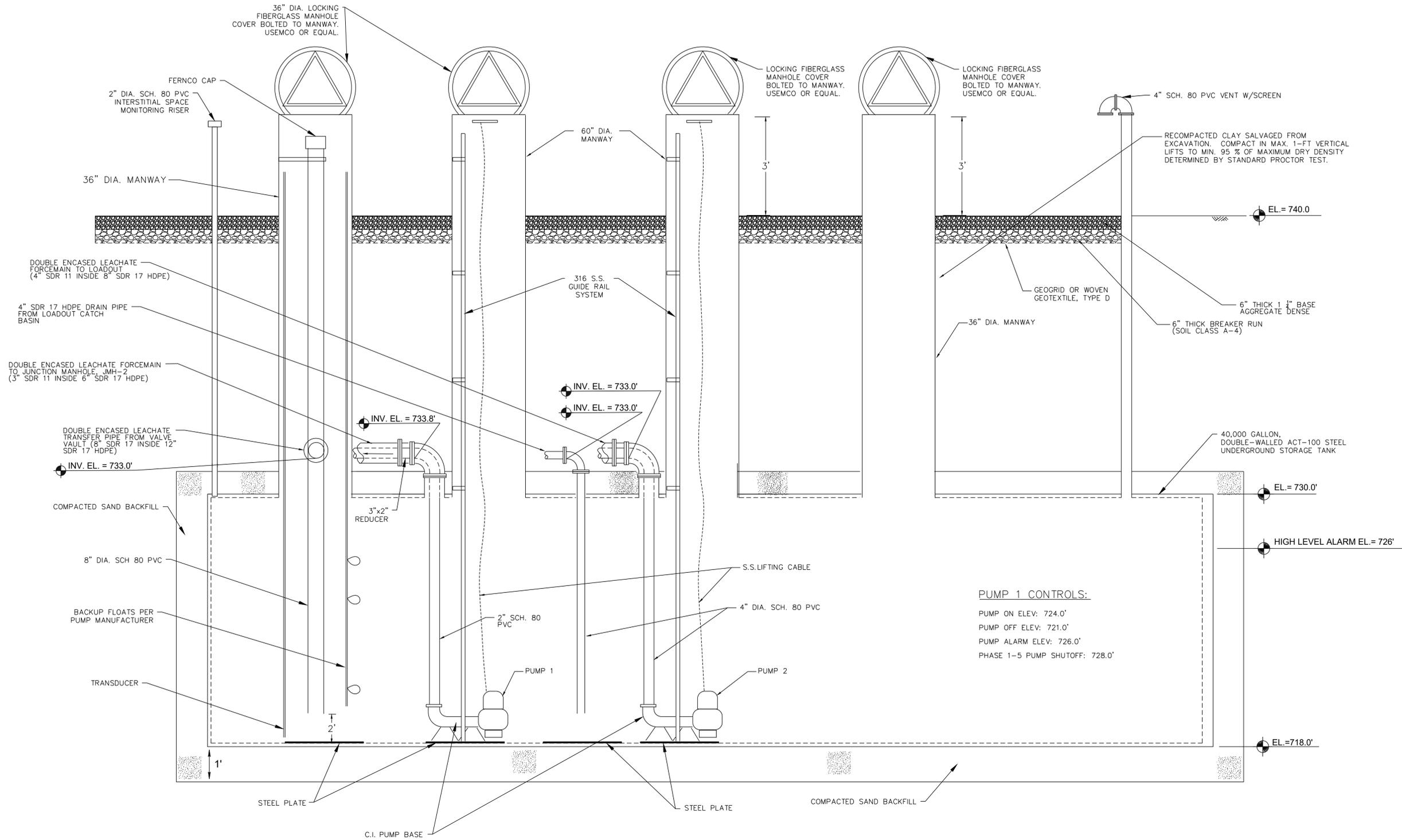
1. VARIABLE FREQUENCY DRIVE CONTROLLED
2. OPERATOR SET DISCHARGE RATE - PASSWORD PROTECTED TOUCHSCREEN
3. HIGH LEVEL ALARM - 726'
4. LOW LEVEL ELEVATION SHUTOFF PER PUMP MANUFACTURER

PUMP 2 OPERATION:

1. MANUAL OPERATION - PASSWORD PROTECTED TOUCHSCREEN
2. HIGH LEVEL ALARM - 726'
3. LOW LEVEL ELEVATION SHUTOFF PER PUMP MANUFACTURER



7
22 CONCRETE BOLLARD
NOT TO SCALE



PUMP 1 CONTROLS:
 PUMP ON ELEV: 724.0'
 PUMP OFF ELEV: 721.0'
 PUMP ALARM ELEV: 726.0'
 PHASE 1-5 PUMP SHUTOFF: 728.0'

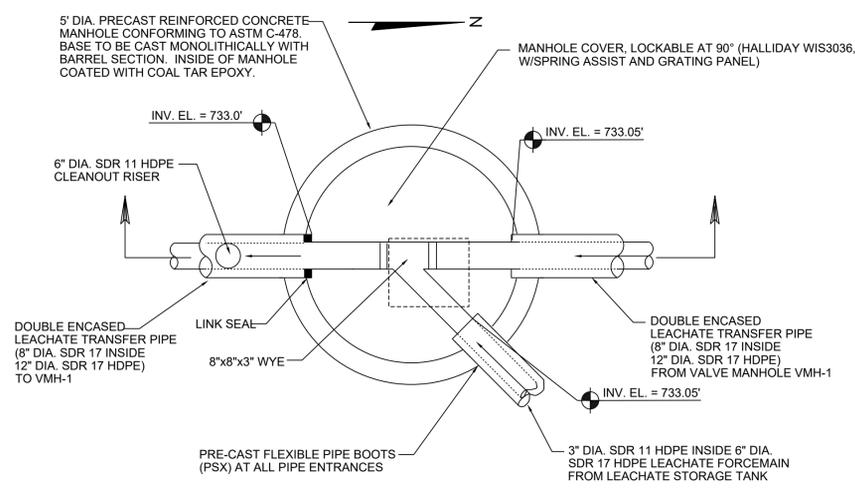
LEACHATE STORAGE TANK - SECTION VIEW DETAIL
 NOT TO SCALE

1
23

PROJECT NO.	2522312.02	DRAWN BY:	SB
DRAWN:	02/12/2024	CHECKED BY:	MH
REVISED:	02/19/2024	APPROVED BY:	MRS
OUTAGAMIE COUNTY, RECYCLING & SOLID WASTE DEPARTMENT			
 Outagamie County			
CLIENT			
 SCS ENGINEERS 2830 DARY DRIVE MADISON, WI 53718-6797 PHONE: (608) 224-2830			
ENGINEER			
CONSTRUCTION DRAWINGS PHASE 1 LINER CONSTRUCTION OUTAGAMIE COUNTY NORTHWEST LANDFILL OUTAGAMIE COUNTY, WISCONSIN			
SITE			
DETAILS			
SHEET			
23 OF 24			

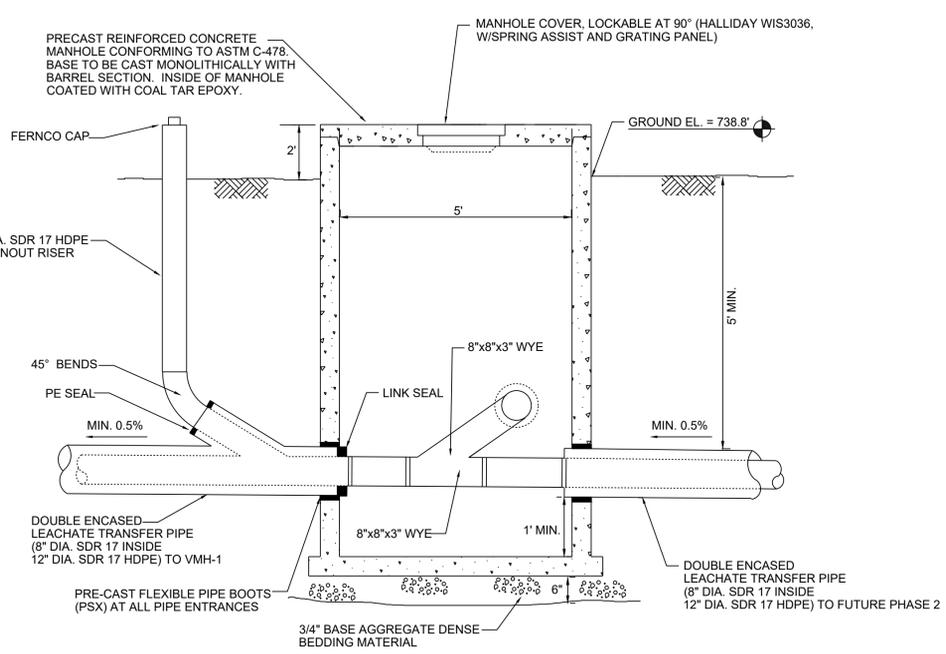
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RECOMPACTED CLAY SALVAGED FROM EXCAVATION. COMPACT IN MAX. 1-FT VERTICAL LIFTS TO MIN. 95% OF MAXIMUM DRY DENSITY DETERMINED BY STANDARD PROCTOR TEST.



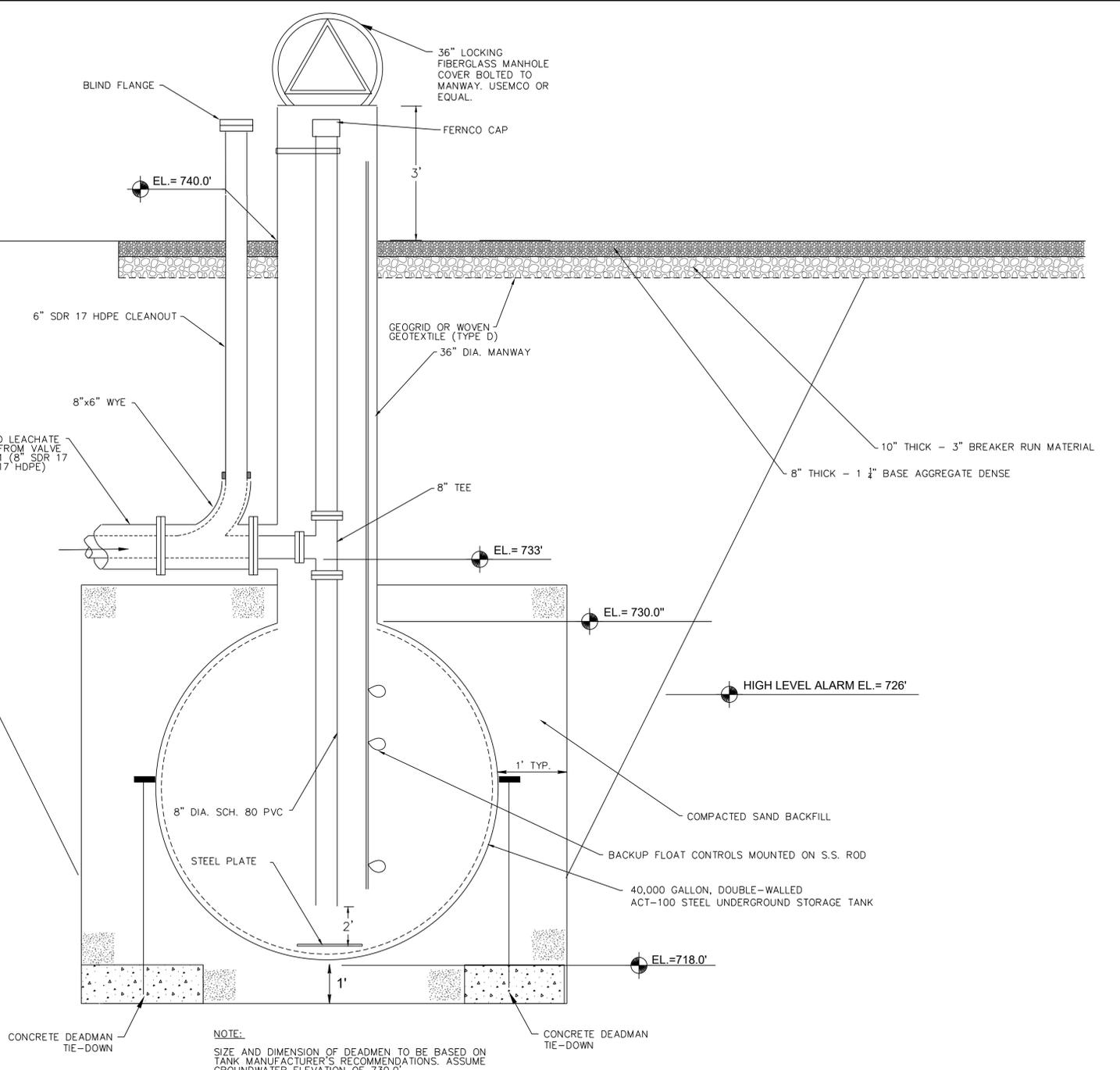
NOTE:
1. MANHOLE TO BE WATERTIGHT. PROVIDE JOINT WRAPS (CRETEX) ON ALL JOINTS.

PLAN VIEW
NOT TO SCALE



SECTION
NOT TO SCALE

1
JUNCTION MANHOLE JMH-2 DETAIL
NOT TO SCALE



NOTE:
SIZE AND DIMENSION OF DEADMEN TO BE BASED ON TANK MANUFACTURER'S RECOMMENDATIONS. ASSUME GROUNDWATER ELEVATION OF 730.0'.

2
LEACHATE STORAGE TANK - SECTION VIEW DETAIL
NOT TO SCALE

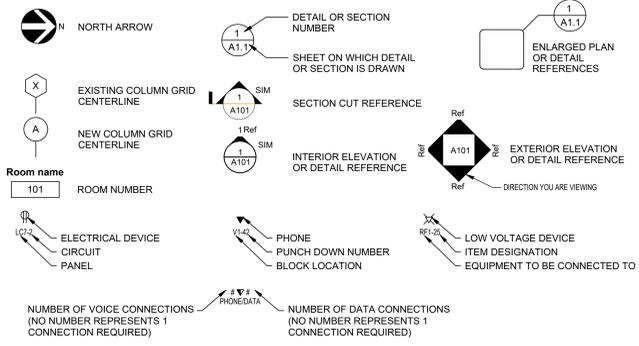
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DRAWN:	02/12/2024	CHECKED BY:	MH
REVISED:	02/19/2024	APPROVED BY:	MRS
OUTAGAMIE COUNTY RECYCLING & SOLID WASTE DEPARTMENT			
Outagamie County			
CLIENT			
SCS ENGINEERS 2850 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2820			
ENGINEER			
CONSTRUCTION DRAWINGS PHASE 1 LINER CONSTRUCTION OUTAGAMIE COUNTY NORTHWEST LANDFILL OUTAGAMIE COUNTY, WISCONSIN			
SITE			
DETAILS			
SHEET			
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ISSUED FOR BIDDING

ELECTRICAL ABBREVIATIONS LIST

1P 1 POLE (2P, 3P, 4P, ETC.)	DCP DOMESTIC WATER CIRCULATING PUMP	HP HORSEPOWER	NC NORMALLY CLOSED
A AMPERE	DEPT DEPARTMENT	HPF HIGH POWER FACTOR	NEC NATIONAL ELECTRICAL CODE
AC ABOVE COUNTER OR AIR CONDITIONER	DET DETAIL	HTG HEATING	NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
ACLG ABOVE CEILING	DIA DIAMETER	HTR HEATER	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
ADO AUTOMATIC DOOR OPENER	DISC DISCONNECT	HV HIGH VOLTAGE	NFDS NON-FUSED SAFETY DISCONNECT SWITCH
AF AMP FRAME	DIST DISTRIBUTION	HVAC HEATING, VENTILATING AND AIR CONDITIONING	NIC NOT IN CONTRACT
AFB ABOVE FINISHED FLOOR	DIV DIVISION	HW Hydronic Water Pump	NL NIGHT LIGHT
AFG ABOVE FINISHED GRADE	DN DOWN	IC INTERRUPTING CAPACITY	NO NORMALLY OPEN
AFI AIRC FAULT CIRCUIT INTERRUPTER	DPR DAMPER	IG ISOLATED GROUND	NPF NORMAL POWER FACTOR NOT TO SCALE
AH Unit Air Handling Unit	DS DOUBLE THROW	IMC INTERMEDIATE METAL CONDUIT	OH OVERHEAD
AL ALUMINUM	DWG DRAWING	INCAND INCANDESCENT	OL OVERLOADS
ALT ALTERNATE	EC ELECTRICAL CONTRACTOR	IR INFARED	PA PUBLIC ADDRESS
AMP AMPERE	ELEC ELECTRICAL	IR INTERLOCK WITH	PB PULL BOX OR PUSHBUTTON
AMPL AMPLIFIER	ELEV ELEVATOR	J-BX JUNCTION BOX	PE PEDESTAL
ANLN ANNUNCIATOR	EM EMERGENCY	KVA KILOVOLT-AMPERE	PF POWER FACTOR
APPROX APPROXIMATELY	EMS ENERGY MANAGEMENT SYSTEM	KVAR KILOVOLT-AMPERE REACTIVE	PH PHASE
AQ-STAT AQUASTAT	EMT ELECTRICAL METALLIC TUBING	KW KILOWATT	PV POST INDICATING VALVE
AS AMP SWITCH	EP ELECTRIC PNEUMATIC	KWH KILOWATT HOUR	PNL PANEL
AT AMP TRIP	EQU EQUIPMENT	LCP LIGHTING CONTROL PANEL	PP PAIR
ATS AUTOMATIC TRANSFER SWITCH	ETR EXISTING TO REMAIN	LOC LOCATE OR LOCATION	PRI PRIMARY
AUTO AUTOMATIC	EWG ELECTRIC WATER COOLER	LT LIGHT	PROJ PROJECTION
AUX AUXILIARY	EXIST EXISTING	LTG LIGHTING	PRV POWER ROOF VENTILATOR
AV AUDIO VISUAL	EXP EXPLOSION PROOF	LV LOW VOLTAGE	PT POTENTIAL TRANSFORMER
AWG AMERICAN WIRE GAUGE	EX EXTERIOR	LV MAXIMUM	PVC POLYVINYL CHLORIDE (CONDUIT)
BATT BATTERY	FA FIRE ALARM	LV MAGNETIC STARTER	PWR POWER
BD BOARD	FABP FIRE ALARM BOOSTER POWER SUPPLY PANEL	LV MIC MECHANICAL CONTACT	QUAN QUANTITY
BLDG BUILDING	FACP FIRE ALARM CONTROL PANEL	LV MCB MECHANICAL CONTRACTOR	RCPT RECEPTACLE
BMS BUILDING MANAGEMENT SYSTEM	FAN FAN COIL UNIT	LV MCC MOTOR CONTROL CENTER	REQD REQUIRED
C CONDUIT	FCU FLOOR CEILING UNIT	LV MDC MAIN DISTRIBUTION CENTER	RM ROOM
CAB CABINET	FLR FLOOR	LV MDP MAIN DISTRIBUTION PANEL	RSC RIGID STEEL CONDUIT
CAT CATALOG	FLU FLUORESCENT	LV MFR MANUFACTURER	RTU ROOF TOP UNIT
CATV CABLE TELEVISION	FU FUSE	LV MFS MAIN FUSED DISCONNECT SWITCH	SEC SECONDARY
CB CIRCUIT BREAKER	FJDS FUSED SAFETY DISCONNECT SWITCH	LV MGC GENERAL CONTRACTOR	SHT SHEET
CCTV CLOSED CIRCUIT TELEVISION	GA GAUGE	LV MIC MICROPHONE	SIM SIMILAR
CLG CEILING	GALV GALVANIZED	LV MIN MINIMUM	SIN SOLID NEUTRAL
COMB COMBINATION	GEN GENERATOR	LV MISC MISCELLANEOUS	SPEC SPECIFICATION
CMPR COMPRESSOR	GEN GEN	LV MLO MAIN LUGS ONLY	SIPR SPIRE
CONN CONNECTION	CONSTR CONSTRUCTION	LV MMS MAIN MOTOR STARTER	SR SURFACE RACEWAY
CONT CONTINUATION OR CONTINUOUS	CONTR CONTRACTOR	LV MOA MULTIOUTLET ASSEMBLY	SS STAINLESS STEEL
CONV CONVEYOR	CONV CONVEYOR	LV MSP MOTOR STARTER PANELBOARD	SS STAINLESS STEEL
CP CIRCULATING PUMP	CND CONDUNIT	LV MSB MAIN SWITCHBOARD	STA STATION
CRT CATHODE RAY TUBE	GYP GYPSUM BOARD	LV MNT MOUNT	STD STANDARD
CT CURRENT TRANSFORMER	HOA HANDS-OFF-AUTOMATIC SWITCH	LV MTC EMPTY CONDUIT	STD STANDARD
CTR CENTER	COP COPPER	LV MTS MANUAL TRANSFER SWITCH	STD STANDARD
CU COPPER	HORIZ HORIZONTAL	LV MTR MOTOR, MOTORIZED	SURF SURFACE MOUNTED

SYMBOLS



GENERAL ELECTRICAL SYMBOLS

	UNDERGROUND / UNDERFLOOR RACEWAY
	SWITCHED CIRCUIT
	UNSWITCHED CIRCUIT
	HOMERUN TO CIRCUITING INDICATED
	KEYED NOTE

NURSE CALL SYMBOLS

HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
80"		EMERGENCY STAFF	80"		DOME LIGHT WALL
80"		EMERGENCY PATIENT	80"		SINGLE PATIENT - STAFF
80"		CODE BLUE EM STATION	80"		SINGLE PATIENT - PATIENT
80"		DUTY STATION - STAFF	80"		DUAL PATIENT - STAFF
80"		DUTY STATION - PATIENT	80"		DUAL PATIENT - PATIENT
80"		EMERGENCY STATION - STAFF	80"		NURSE CALL - ANNUNCIATOR PANEL
80"		EMERGENCY STATION - PATIENT			
80"		STAFF STATION - STAFF			
80"		STAFF STATION - PATIENT			

NOTE: ALL WALL MOUNTED DIMENSIONS ARE TO TOP OF BOX.

FIRE ALARM SYMBOLS

HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
48"		ABORT SWITCH	44"		POST INDICATOR VALVE
80"		BELL - WALL	44"		PULL STATION
80"		BELL STROBE - WALL			
80"		BUZZER - WALL			
80"		BUZZER STROBE - WALL			
80"		CHIME - WALL	48"		REMOTE TEST STATION - WALL
80"		CHIME STROBE - WALL	80"		SCRAMBLE STROBE STACK LIGHT
80"		CHIME STROBE - CEILING			
		FLAME DETECTOR			
		GAS DETECTOR	80"		FIRE ALARM SPEAKER - CEILING
		HEAT DETECTOR			
		LINEAR HEAT DETECTOR	80"		FIRE ALARM SPEAKER - WALL
		DUCT SMOKE IONIZATION			
		DUCT SMOKE PHOTOELECTRIC			
		DUCT SMOKE RELAY			
80"		SELF CONTAINED SMOKE, AV			
80"		SMOKE DETECTOR - WALL			
80"		SMOKE DETECTOR - CEILING			
80"		DOOR CLOSER			
80"		DOOR HOLDER			
		FAN SHUNT DOWN RELAY			
		FLOW SWITCH	80"		MASS NOTIFICATION HORN STROBE
90"		HORN - WALL	80"		MASS NOTIFICATION SPEAKER STROBE
		HORN STROBE - CEILING			
80"		HORN STROBE - WALL			
		STROBE - CEILING	48"		FIRE ALARM KEY PAD
80"		STROBE - WALL			
		INDIVIDUAL ADDRESSABLE MODULE			
		ADDRESSABLE RELAY MODULE			
48"		KEY REPOSITORY	90"		LOW FREQUENCY HORN WALL
		CARBON MONOXIDE DETECTOR	90"		LOW FREQUENCY HORN STROBE (WALL)
48"		LINE ISOLATION MODULE			
48"		MASTER BOX			
80"		MINI HORN STROBE	43"		2-WAY CALL STATION
			43"		2 WAY MASTER STATION

NOTE: ALL WALL MOUNTED DIMENSIONS ARE TO BOTTOM OF BOX. WP = WEATHER PROOF

SECURITY & CCTV

HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
		CCTV CAMERA IN RECESSED DOME			REQUEST TO EXIT
		CCTV CAMERA			GLASS BREAK
		CCTV CAMERA WITH PAN AND TILT DRIVE			MOTION SENSOR - CEILING
		CCTV CAMERA PANORAMIC GRAND EYE	80"		MOTION SENSOR - WALL
		CCTV CAMERA PANORAMIC	48"		INTERCOM
42"		CARD READER	48"		SECURITY KEY PAD
80"		DOOR CONTACT	80"		NOTIFICATION APPLIANCE - WALL
		DOOR SIGNAL	80"		DURESS ALERT STROBE - WALL
		ELECTRIC STRIKE			
		MAGNETIC LOCK			
		VOICE EVACUATION PANEL			
48"		DOOR RELEASE BUTTON - WALL			
48"		PANIC BUTTON - WALL			
		NETWORK VIDEO RECORDER			

NOTE: ALL WALL MOUNTED DIMENSIONS ARE TO TOP OF BOX. WP = WEATHER PROOF

SHEET INDEX - OUTAGAMIE CTY-NWLF-PHASE 1

SHEET NUMBER	SHEET TITLE
E0.0	ELECTRICAL - ARREVIATIONS, SYMBOLS & SHEET INDEX
E0.1	ELECTRICAL - SITE PLAN
E2.0	ELECTRICAL - POWER DETAILS
E3.0	ELECTRICAL - SPECIFICATIONS
E3.1	ELECTRICAL - SCOPE & PANEL SCHEDULES
E3.2	ELECTRICAL - SITE PHOTOMETRICS

ELECTRICAL SYMBOLS

HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
		BUS CONNECTION			DUPLEX RECEPTACLE - CEILING
		BUS DUCT WITH DISCONNECT			DUPLEX RECEPTACLE - FLOOR
		COMBINATION MOTOR STARTER	20"		DUPLEX RECEPTACLE - WALL
		SAFETY DISCONNECT SWITCH	20"		DUPLEX RECEPTACLE - WATER PROOF
		WIRE WAY OR MULTIOUTLET	20"		DUPLEX RECEPTACLE - WALL GROUND FAULT CIRCUIT INTERRUPTER
		JUNCTION BOX - CEILING	20"		DUPLEX EMERGENCY RECEPTACLE
		JUNCTION BOX - FLOOR	20"		DUPLEX ISOLATED GROUND RECEPTACLE
		JUNCTION BOX - WALL	20"		DUPLEX SPLIT RECEPTACLE
		MAGNETIC MOTOR STARTER			DOUBLE DUPLEX RECEPTACLE - CEILING
		MECHANICAL EQUIPMENT CONNECTION	20"		DOUBLE DUPLEX RECEPTACLE - FLOOR
		MOTOR	20"		DOUBLE DUPLEX EMERGENCY RECEPTACLE
		PHOTO CELL	20"		DOUBLE DUPLEX ISOLATED GROUND RECEPTACLE
		POWER POLE	20"		DOUBLE DUPLEX SPLIT RECEPTACLE
		RELAY			SINGLE RECEPTACLE - CEILING
		PUSH BOTTOM - SINGLE			SINGLE RECEPTACLE - FLOOR
		PUSH BUTTON - UP/DOWN/STOP	20"		SINGLE RECEPTACLE - WALL
		PUSH BUTTON - START/STOP			SPECIAL PURPOSE RECEPTACLE - CEILING
		LIGHTING CONTROL PANEL			SPECIAL PURPOSE RECEPTACLE - FLOOR
		POWER OR DISTRIBUTION PANEL	20"		SPECIAL PURPOSE RECEPTACLE - WALL
		CIRCUIT BREAKER PANEL BOARD			SPECIALTY VOLTAGE RECEPTACLE - CEILING
		TRANSFORMER			SPECIALTY VOLTAGE RECEPTACLE - FLOOR
		EPO SWITCH	20"		SPECIALTY VOLTAGE RECEPTACLE - WALL
48"		SINGLE POLE SWITCH			
48"		THREE WAY SWITCH			CORD REEL DUPLEX RECEPTACLE
48"		FOUR WAY SWITCH			
48"		DIMMER SWITCH			CORD DROP DUPLEX RECEPTACLE
48"		WALL OCCUPANCY SENSOR			
48"		FAN SPEED CONTROL SWITCH			CORD REEL SPECIAL PURPOSE RECEPTACLE
		ELECTRIC WALL HEATER			CORD DROP SPECIAL PURPOSE RECEPTACLE
		TIME CLOCK			DUPLEX RECEPTACLE - WALL TAMPER PROOF RESISTANT
		THERMOSTAT	20"		DOUBLE DUPLEX RECEPTACLE - WALL TAMPER PROOF RESISTANT

NOTE: ALL WALL MOUNTED DIMENSIONS ARE TO TOP OF BOX. WP = WEATHER PROOF

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	RECESSED LIGHT		EXIT SIGN CEILING MOUNTED
	SURFACE MOUNTED LIGHT		EXIT SIGN WALL MOUNTED
	RECESSED DOWNLIGHT		EXIT SIGN CEILING MOUNTED WITH EM
	SURFACE DOWNLIGHT		EXIT SIGN WALL MOUNTED WITH EM
	PENDANT LIGHT		EMERGENCY BATTERY BACKUP LIGHT
	SUSPENDED / PENDANT LIGHT		EMERGENCY REMOTE HEAD LIGHT
	STRIP LIGHT		LIFE SAFETY HATCH PATTERN TYPICAL
	WALL SCONCE / WALL PACK		CRITICAL LIGHT HATCH PATTERN TYPICAL
	FLOOD / TRACK LIGHT		
	POLE MOUNTED LIGHT		
	SITE BOLLARD LIGHT		

LIGHTING CONTROLS SYMBOLS

LINE VOLTAGE SWITCH		LOW VOLTAGE SWITCH	
HT AFF	SYMBOL	HT AFF	SYMBOL
48"		48"	
48"		48"	
48"		48"	
48"		48"	
48"		48"	
48"		48"	
48"		48"	
48"		48"	
48"		48"	
CLG		CLG	
CLG		CLG	
CLG			

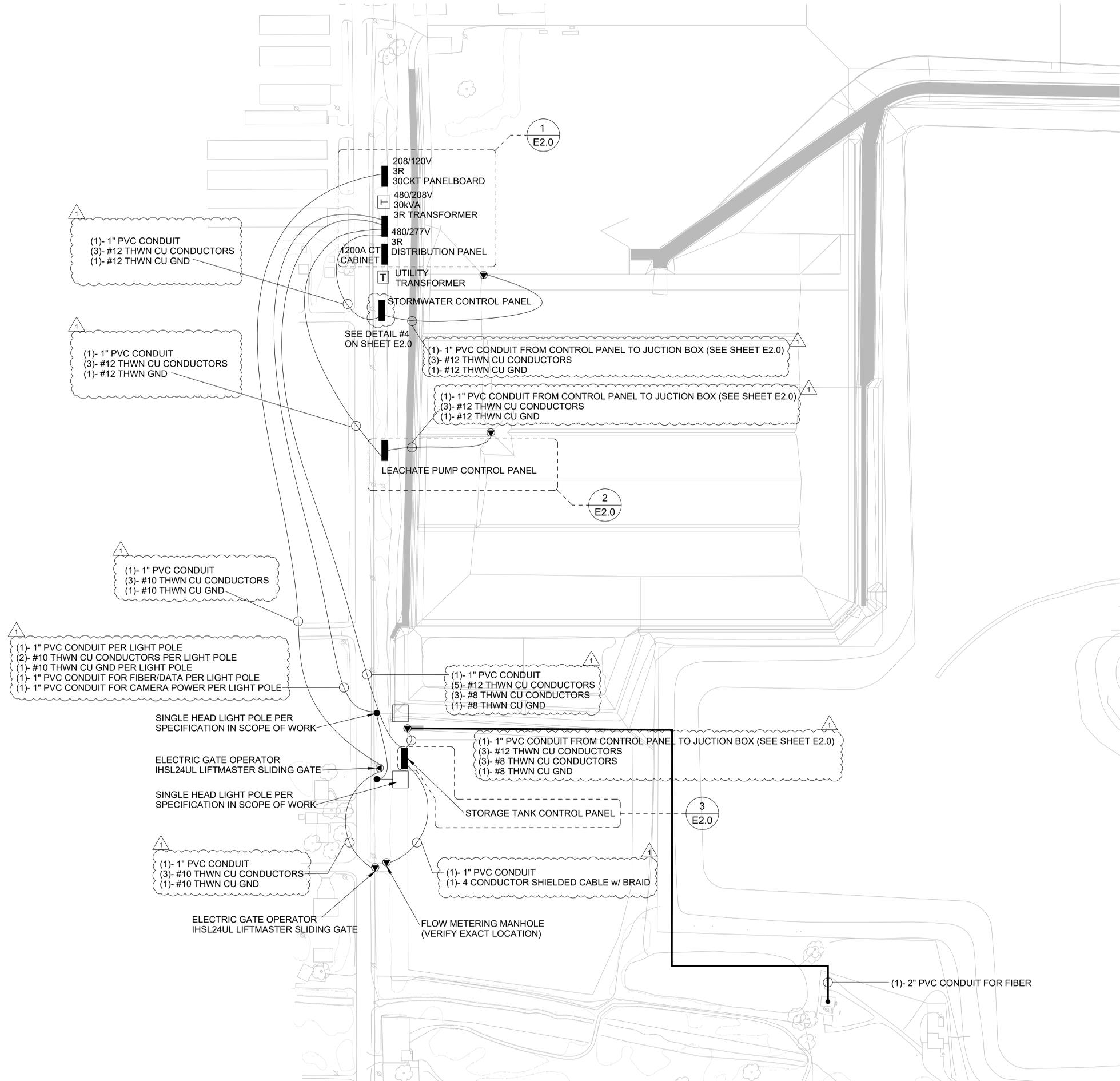
NOTE: ALL WALL MOUNTED DIMENSIONS ARE TO TOP OF BOX.

TELECOMMUNICATIONS SYMBOLS

HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
20"		SINGLE DATA JACK			AUDIO / VISUAL HDMI CONNECTION
20"		DOUBLE DATA JACK			ADMINISTRATIVE CONTROL
20"		TRIPLE DATA JACK			CALL STATION
20"		QUAD DATA JACK			TV OUTLET - WALL
20"					

GENERAL NOTES

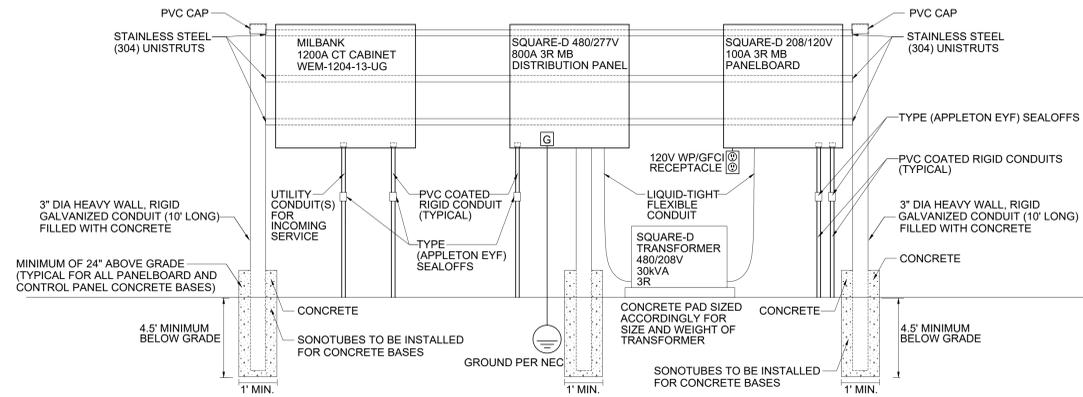
1. THE ENVIRONMENT IS HIGHLY CORROSIVE. PVC COATED RIGID CONDUIT AND PVC COATED FITTINGS ARE REQUIRED ABOVE GRADE INCLUDING 10FT FROM SEALOFF TO BELOW GRADE.
2. ALL ELECTRICAL CONNECTIONS TO BE MADE BY DIVISION 26.
3. ALL WIRING TO BE INTRINSICALLY SAFE.
4. ALL EQUIPMENT SHALL BE SECURELY MOUNTED.
5. ALL DIVISION 26 CONDUITS SHALL BE INSTALLED IN SEPARATE TRENCH FROM PROCESS PIPING.
6. ALL SEAL-OFFS SHALL BE FILLED WITH CROUSE-HINDS BRAND CHICO OR EQUAL.
7. VERIFY ALL LOCATIONS OF EQUIPMENT WITH THE GENERAL CONTRACTOR PRIOR TO THE INSTALLATION.
8. ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH NEC REQUIREMENTS.
9. ALL EQUIPMENT AND MATERIAL SHALL BE UL LISTED.
10. PUMP STARTUP AND TESTING DONE SHALL BE DONE BY REPRESENTATIVES OF THE CONTROL PANEL SUPPLIER.
11. DIVISION 26 CONTRACTOR SHALL REVIEW SPECIFICATIONS AND SCOPE OF WORK FOR WORK REQUIRED BY DIVISION 26.
12. CONDUIT ROUTING IS DIAGRAMATIC.
13. DIVISION 26 SHALL RESTORE GREENSPACE EXCAVATIONS UPON COMPLETION.
14. RACEWAYS SHALL BE DIRECTIONALLY BORED UNDER EXISTING ROADWAYS AND DRIVEWAYS.
15. EQUIPMENT SIZES SHOWN ON SITE PLAN ARE NOT TO SCALE.



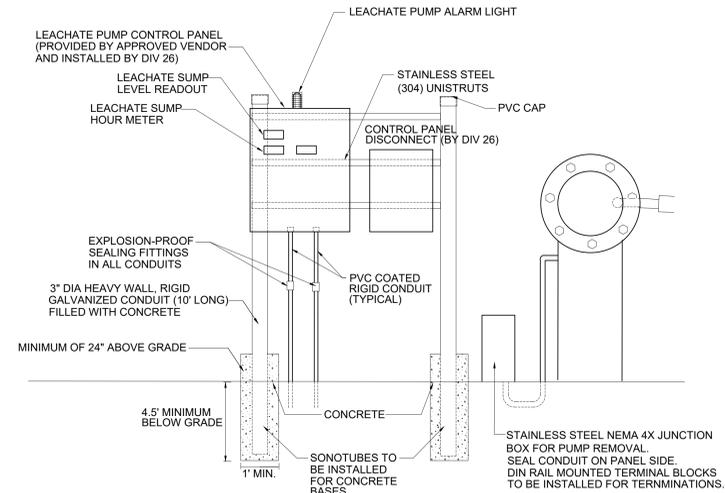
1 ELECTRICAL SITE PLAN
SCALE: 1" = 100'-0"

BID SET DRAWINGS - 04.04.2024

DATE: 02/27/2024		BY: [Signature]	
SCALE: SEE PLAN TITLE		JOB: [Blank]	
DRAWN BY: [Signature]		JOB NO: 10252409	
CHECKED BY: [Signature]			
DATE: 04/04/24		REVISIONS DESCRIPTION	
DATE	DESCRIPTION	BY	
04/04/24	VOLTAGE REVISION		
APPLETON, WISCONSIN OUTAGAMIE COUNTY NORTHWEST LANDFILL PHASE 1 ELECTRICAL - SITE PLAN			
E0.1			



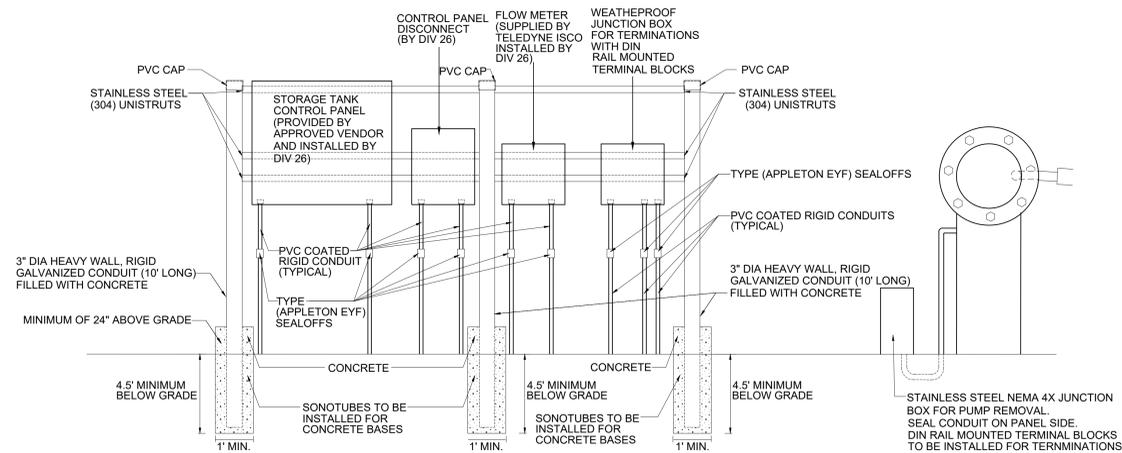
1 SERVICE DISTRIBUTION RACK
SCALE: NTS



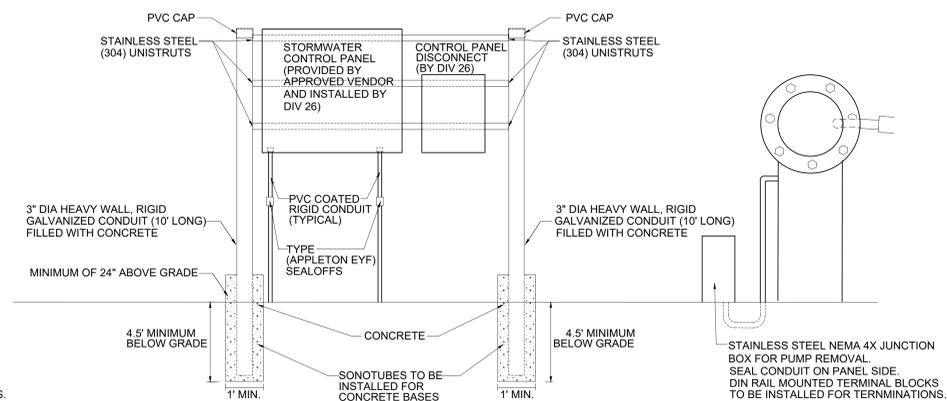
2 LEACHATE PUMP CONTROL PANEL
SCALE: NTS

CONTROL PANEL NOTES:

1. ALL HARDWARE TO BE STAINLESS STEEL (304).
2. ALL CONTROL PANELS AND JUNCTION BOXES ARE TO BE INSTALLED USING STAINLESS STEEL, NEMA 4X ENCLOSURES WITH DIN RAIL MOUNTED TERMINAL BLOCKS FOR TERMINATIONS.
3. WIRES THAT ARE SIZED FOR VOLTAGE DROP WILL NEED TO BE TERMINATED IN A SEPARATE JUNCTION BOX COMPLETELY SEPARATE AND ADJACENT FROM THE PANELBOARD.
4. IF CONTROL PANELS HAVE AN INTEGRATED DISCONNECT, A SEPARATE CONTROL PANEL DISCONNECT IS NOT REQUIRED.
5. PROVIDE SEAL-OFF'S FOR ALL CONDUITS PENETRATING THE GROUND. PROVIDE 10' OF PVC COATED RIGID GALVANIZED STEEL CONDUIT FROM THE SEAL-OFF TO THE PVC CONDUIT UNDER GRADE. ALL CONDUITS ABOVE GROUND SHALL BE PVC COATED RIGID OR LIQUIDTIGHT FLEXIBLE CONDUIT.
6. PROVIDE DUX-SEAL IN ALL CONDUITS, PANELS AND JUNCTION BOXES.
7. ALL ELECTRICAL SERVICE EQUIPMENT SUPPLIED AND INSTALLED BY DIVISION 26.



3 STORAGE TANK CONTROL PANEL
SCALE: NTS



4 STORMWATER PUMP CONTROL PANEL
SCALE: NTS

DATE	02/27/2024	BY	
SCALE	SEE PLAN TITLE		
DRAWN BY	WJG	CHECKED BY	WJG
DATE	04/04/24	REVISIONS DESCRIPTION	
		1	VOLTAGE REVISION
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ELECTRICAL SCOPE OF WORK

- PROVIDE 3" GRC CONDUITS AND PVC CAPS FOR MOUNTING OF EACH CONTROL PANEL STATION AND SERVICE DISTRIBUTION STATION.
- GENERAL CONTRACTOR TO AUGER HOLES AND PROVIDE CONCRETE BASE AND FILLING OF CONDUIT
- FURNISH AND INSTALL ALL ASSOCIATED EQUIPMENT FOR PHASE 1 OF THE NORTHWEST LANDFILL PROJECT
- SQUARE D I00A 120/208V, NEMA 4X, 30 CIRCUIT MAIN BREAKER PANELBOARD AND ASSOCIATED BREAKERS
- SQUARE D 800A 480/277V, NEMA 4X SERVICE ENTRANCE RATED MAIN BREAKER DISTRIBUTION PANEL AND ASSOCIATED BREAKERS
- SQUARE D 50 KVA, NEMA 4X, 480V PRIMARY TO 120/240V SECONDARY TRANSFORMER.
- SQUARE D, NEMA 4X, FUSED DISCONNECTS FOR ALL CONTROL PANELS (IF REQUIRED)
- WEM-120-180 GMI BANK CT ENCLOSURE
- TYCO RAYCHEM SHELF-REGULATING TYPE BTV HEAT TRACE CABLE, MODEL# AME-1A, THERMISTAT AND ASSOCIATED ACCESSORIES NECESSARY FOR COMPLETE INSTALLATION.
- STAINLESS STEEL STRUT
- APPLETON TYPE SEALOFFS
- STAINLESS STEEL HARDWARE
- STAINLESS STEEL JUNCTION BOXES
- PVC COATED RMC
- PVC CONDUIT
- ALL NECESSARY WIRE FOR POWER CONNECTIONS
- ALL FITTINGS AND CONNECTORS REQUIRED FOR ELECTRICAL INSTALLATION.
- ENGRAVED LABELS FOR ALL ELECTRICAL EQUIPMENT.
- FURNISH AND INSTALL 1 (1HP) 480V 3 PHASE 60HZ VFD FOR STORAGE TANK PUMP
 - Brand- Rockwell Automation, Model-Powerflex 525 or equal.
 - HP: 2 HP
 - Voltage Class: 480VAC, 3 phase
 - Day: Normal day
- PROVIDE PROGRAMMING CONTROLS FOR THE 1 HP VFD
- INSTALL MOTOR JUNCTION BOXES AND ASSOCIATED WIRING
- INSTALL LEACHATE LEVEL BREAKOUT BOX AND ASSOCIATED WIRING
- PROVIDE ALL 208/120V AND 480/277V ELECTRICAL CONNECTIONS NECESSARY FOR NORTHWEST LANDFILL PHASE 1 PROJECT.
- PROVIDE WIRING FOR BACK-UP FLOATS
- PROVIDE ALL CONDUIT, SEALOFFS AND WIRING FOR STORM WATER CONTROL PANEL, PUMP AND ACCESSORIES
- PROVIDE ALL CONDUIT, SEALOFFS AND WIRING FOR STORAGE TANK CONTROL PANEL, PUMP AND ACCESSORIES
- PROVIDE ALL CONDUIT, SEALOFFS AND WIRING FOR EPO CONTROL PANEL, PUMP AND ACCESSORIES
- PROVIDE ALL CONDUIT, SEALOFFS AND WIRING FOR FLOW METER
- FURNISH AND INSTALL THE FOLLOWING FOR ELECTRONIC GATE OPERATORS
 - (2) - HSI124UL LIFTMASTER HEAVY DUTY GATE OPERATOR CONTROL PANELS
 - (2) LIFTMASTER AK-11 ACCESS CONTROL KEYPAD'S WITH PEDESTAL FROM PEDESTAL PRO 3000EL 472-AC-S - VERIFY EXACT LOCATION OF PEDESTAL WITH OWNER.
 - (6) - LIFTMASTER 811LM REMOTE CONTROLLERS PER SLIDING GATE.
 - (1) 3-BUTTON MANUAL OPERATOR PER GATE - MOUNTED ON THE SECURE SIDE OF THE GATE.
 - PROVIDE ALL CONDUIT, WIRING AND ASSOCIATED CONNECTORS FOR GATE OPERATORS AND ACCESSORIES.
 - CONNECTION FROM GATE CONTROL PANEL TO ACCESS CONTROL KEYPAD
 - PROVIDE GROUNDING PER MANUFACTURER'S SPECIFICATIONS.
- FURNISH AND INSTALL THE FOLLOWING FOR SITE LIGHTING
 - (2) - SQUARE STRAIGHT STEEL POLES- LITHONIA-SSS86672WD0000000000
 - (2) - LITHONIA-RS241LED P8 50K WTL BY VOLTS IS DORAD
 - (2) ILL127F 1.5 JI PHOTOEYE
 - (2) - CONCRETE POLE BARS AT 36" IN DIAMETER, HAVING A FINISHED HEIGHT OF 36" ABOVE GRADE, A FINISH DEPTH OF 60" BELOW GRADE, FURNISHED WITH STEEL REINFORCING CAGE AND HAVE A HAND RUB FINISH
 - ANCHOR BOLTS- ABS6
 - TEMPLATE- P90011
 - ALTERNATE FOR FIBER AND CONDUIT
 - PROVIDE PROPERLY RATED FIBER OPTIC CABLE. ALL FIBER OPTIC CABLE SHALL BE OS2 SINGLEMODE INSIDE OUTSIDE PLANT RATED, ALL DIELECTRIC RATED FOR UNDERGROUND INSTALLATION. USE PANDUIT FIBER OPTIC CABLE PART #SC80912V (12 STRAND)
 - AT THE PLANT BUILDING DE, TERMINATE THE FIBER OPTIC CABLES WITH SINGLEMODE LC CONNECTORS. USE PANDUIT LC SPLICE-ON CONNECTOR, SINGLE MODE, PART #FLCS2980C90L. PANDUIT ADAPTER PANEL (FAPWBUDLCZ) USE PRINTED LABEL MAKER TO PROPERLY LABEL FIBER ENCLOSURE.
 - AT THE LEACHATE STATION NEAR THE NORTHWEST LANDFILL LOCATION, IN HEATED COOLED NEMA ENCLOSURE, PROVIDE FIBER OPTIC WALL MOUNT ENCLOSURE. USE PANDUIT PART #P90084.
 - AT THE HEATED COOLED NEMA ENCLOSURE, TERMINATE THE FIBER OPTIC CABLES WITH SINGLE MODE LC CONNECTORS. USE PANDUIT LC SPLICE-ON CONNECTOR, SINGLEMODE, PART #FLCS2980C90L. PANDUIT ADAPTER PANEL (FAPWBUDLCZ) USE PRINTED LABEL MAKER TO PROPERLY LABEL FIBER ENCLOSURE.
 - ALL FIBER CONNECTORS WILL BE FUSION SPLICED.
 - ALL UNDERGROUND BORE PATHS SHALL USE A 2" MAXIMUM FIBER INNERDUCT CONDUIT OR ANOTHER MANUFACTURER
 - THE CONTRACTOR SHALL PROVIDE A 15-YEAR PRODUCT WARRANTY. THE WARRANTY SHALL STATE THAT THE INSTALLED CABLE SYSTEM WILL BE FREE OF DEFECTS AND WILL MEET OR EXCEED THE REQUIREMENTS OF THE APPLICABLE INDUSTRY STANDARDS FOR A PERIOD OF 15 YEARS. WARRANTY REPAIRS SHALL COVER ALL MATERIAL AND LABOR. THE VENDOR SHALL PASS ALONG TO THE CUSTOMER ANY ADDITIONAL WARRANTIES OFFERED BY THE MANUFACTURER, AT NO ADDITIONAL COSTS TO THE CUSTOMER. SHOULD SAID WARRANTIES EXTEND BEYOND THE PERIOD SPECIFIED HEREIN.

Panel MDP																				
480/277V - 3P, 4W																				
MOUNT	PANEL I.D.				MLO SFL FTL				OUTAGAMIE CTY-NWLF											
SURFACE	TYPE I-LINE	MAIN CB AMPS	CT	PHASE	WIRE	VOLTAGE	BREAKER			KVA			CIRCUIT DESIGNATION	BREAKER TYPE	LOAD ID					
LOAD ID	BREAKER TYPE	CIRCUIT DESIGNATION				A _φ	B _φ	C _φ	AMP	POLE	CT #	CT #	AMP	POLE	A _φ	B _φ	C _φ	CIRCUIT DESIGNATION	BREAKER TYPE	LOAD ID
											1	2	20	1				SITE LIGHTING	BJ	L
											3	4	20	1					BJ	
											5	6	20	1					BJ	
											7	8	15	3				SJ DING GATE #1, #2	BJ	X
											9	10								X
											11	12								X
											13	14	25	3				STORAGE TANK #2- 10HP	BJ	M
											15	16								M
											17	18								M
											19	20	25	3				STORM WATER PUMP- 10HP	BJ	M
											21	22								M
											23	24								M
1	M	BJ							15	3	25	26						PREPARED SPACE	BJ	
											27	28								
											29	30								
1	M	BJ							15	3	31	32						SI DESLOPE R SER PUMP- 3HP	BJ	
											33	34								
											35	36								
											37	38	60	3				30KVA TRANSFORMER	BJ	
											39	40								
											41	42								
TOTAL LINE-NEUTRAL KVA					0.00	0.00	0.00	TOTAL ESTIMATED KVA DEMAND:			0.00	TOTAL ESTIMATED AMP DEMAND:			0.00					
TOTAL CONNECTED KVA					0.00	TOTAL ESTIMATED KVA DEMAND:			0.00	TOTAL ESTIMATED AMP DEMAND:			0.00							
TOTAL CONNECT AMPS					0.00	TOTAL ESTIMATED AMP DEMAND:			0.00											
TOTALS BY LOAD ID:					R (RECEPTACLES)			0.00	ESTIMATED DEMAND			0.00	NOTES:							
					L (LIGHTING)			0.00	BY TYPE:			0.00	PUMP HP/ VOLTAGE REVISION			1				
					M (MOTORS)			0.00				0.00								
					X (MISC. EQUIP)			0.00				0.00								
					WH (ELEC WTHR)			0.00				0.00								
					A (AC)			0.00				0.00								
					E (ELEC. HEAT)			0.00				0.00								

BRANCH PANEL																				
208/120V - 3P, 4W																				
MOUNT	PANEL I.D.				MLO SFL FTL				OUTAGAMIE CTY-NWLF											
SURFACE	TYPE NQ	MAIN CB AMPS	CT	PHASE	WIRE	VOLTAGE	BREAKER			KVA			CIRCUIT DESIGNATION	BREAKER TYPE	LOAD ID					
LOAD ID	BREAKER TYPE	CIRCUIT DESIGNATION				A _φ	B _φ	C _φ	AMP	POLE	CT #	CT #	AMP	POLE	A _φ	B _φ	C _φ	CIRCUIT DESIGNATION	BREAKER TYPE	LOAD ID
	QOB	PREPARED SPACE										1	2					PREPARED SPACE	QOB	
												3	4							
												5	6							
	QOB	PREPARED SPACE										7	8					PREPARED SPACE	QOB	
												9	10							
												11	12							
1	X	QOB	FLOW METER							15	2	13	14					PREPARED SPACE	QOB	
	X											15	16							
		QOB	PREPARED SPACE									20	1	17	18			PREPARED SPACE	QOB	
		QOB	PREPARED SPACE									20	1	19	20			PREPARED SPACE	QOB	
		QOB	PREPARED SPACE									20	1	21	22			PREPARED SPACE	QOB	
		QOB	PREPARED SPACE									20	1	23	24			PREPARED SPACE	QOB	
	R	QOB	PANEL GFCI									20	1	25	26			PREPARED SPACE	QOB	
	E	QOB-GFI	HEAT TRACE									20	2	27	28			PREPARED SPACE	QOB	
												29	30					PREPARED SPACE	QOB	
TOTAL LINE-NEUTRAL KVA					0.00	0.00	0.00	TOTAL ESTIMATED KVA DEMAND:			0.00	TOTAL ESTIMATED AMP DEMAND:			0.00					
TOTAL CONNECTED KVA					0.00	TOTAL ESTIMATED KVA DEMAND:			0.00	TOTAL ESTIMATED AMP DEMAND:			0.00							
TOTAL CONNECT AMPS					0.00	TOTAL ESTIMATED AMP DEMAND:			0.00											
TOTALS BY LOAD ID:					R (RECEPTACLES)			0.00	ESTIMATED DEMAND			0.00	NOTES:							
					L (LIGHTING)			0.00	BY TYPE:			0.00	PUMP HP/ VOLTAGE REVISION			1				
					M (MOTORS)			0.00				0.00								
					X (MISC. EQUIP)			0.00				0.00								
					WH (ELEC WTHR)			0.00				0.00								
					A (AC)			0.00				0.00								
					E (ELEC. HEAT)			0.00				0.00								

DATE: _____
 TITLE: _____
 NAME: _____

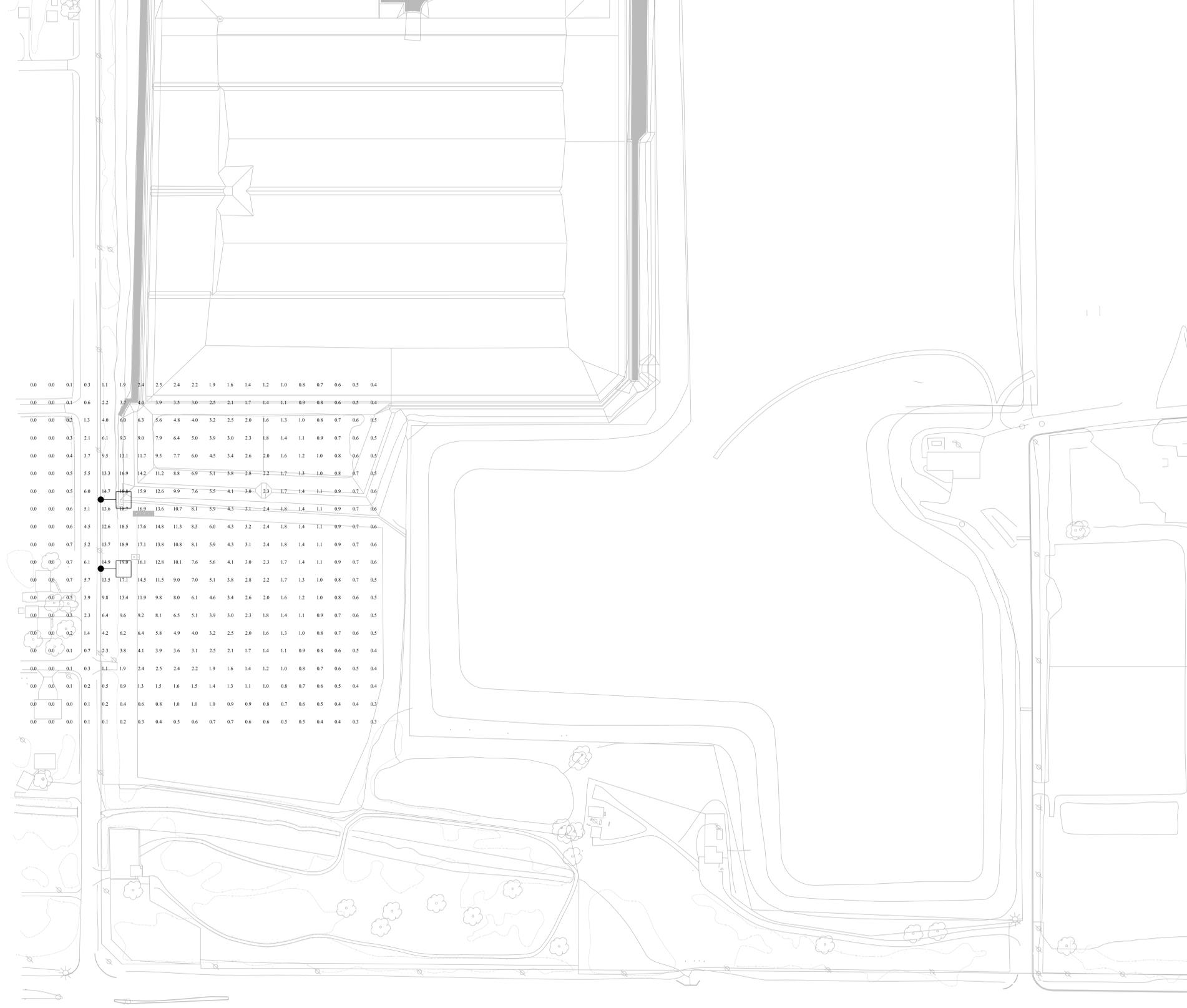
DATE: 02/27/2024
 SCALE: NTS
 DRAWN BY: BSA
 CHECKED BY: BSA
 JOB NO: 10252409

REVISIONS DESCRIPTION BY DATE
 04/04/24 VOLTAGE REVISION 1

APPLETON, WISCONSIN
 OUTAGAMIE COUNTY
 NORTHWEST LANDFILL
 PHASE 1
 ELECTRICAL - SCOPE & PANEL SCHEDULES

BID SET DRAWINGS - 04.04.2024

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
CalcPts_1	Illuminance	Fc	0.94	25.2	0.0	N.A.



0.0	0.0	0.1	0.3	1.1	1.9	2.4	2.5	2.4	2.2	1.9	1.6	1.4	1.2	1.0	0.8	0.7	0.6	0.5	0.4
0.0	0.0	0.1	0.6	2.2	3.7	5.0	5.9	5.5	5.0	2.5	2.1	1.7	1.4	1.1	0.9	0.8	0.6	0.5	0.4
0.0	0.0	0.2	1.3	4.0	6.0	6.3	5.6	4.8	4.0	3.2	2.5	2.0	1.6	1.3	1.0	0.8	0.7	0.6	0.5
0.0	0.0	0.3	2.1	6.1	9.3	9.0	7.9	6.4	5.0	3.9	3.0	2.3	1.8	1.4	1.1	0.9	0.7	0.6	0.5
0.0	0.0	0.4	3.7	9.5	13.1	11.7	9.5	7.7	6.0	4.5	3.4	2.6	2.0	1.6	1.2	1.0	0.8	0.6	0.5
0.0	0.0	0.5	5.5	13.3	16.9	14.2	11.2	8.8	6.9	5.1	3.8	2.8	2.2	1.7	1.3	1.0	0.8	0.7	0.5
0.0	0.0	0.5	6.0	14.7	18.8	15.9	12.6	9.9	7.6	5.5	4.1	3.0	2.3	1.7	1.4	1.1	0.9	0.7	0.6
0.0	0.0	0.6	5.1	13.6	16.7	16.9	13.6	10.7	8.1	5.9	4.3	3.1	2.4	1.8	1.4	1.1	0.9	0.7	0.6
0.0	0.0	0.6	4.5	12.6	18.5	17.6	14.8	11.3	8.3	6.0	4.3	3.2	2.4	1.8	1.4	1.1	0.9	0.7	0.6
0.0	0.0	0.7	5.2	13.7	18.9	17.1	13.8	10.8	8.1	5.9	4.3	3.1	2.4	1.8	1.4	1.1	0.9	0.7	0.6
0.0	0.0	0.7	6.1	14.9	19.7	16.1	12.8	10.1	7.6	5.6	4.1	3.0	2.3	1.7	1.4	1.1	0.9	0.7	0.6
0.0	0.0	0.7	5.7	13.5	17.1	14.5	11.5	9.0	7.0	5.1	3.8	2.8	2.2	1.7	1.3	1.0	0.8	0.7	0.5
0.0	0.0	0.5	3.9	9.8	13.4	11.9	9.8	8.0	6.1	4.6	3.4	2.6	2.0	1.6	1.2	1.0	0.8	0.6	0.5
0.0	0.0	0.5	2.3	6.4	9.6	9.2	8.1	6.5	5.1	3.9	3.0	2.3	1.8	1.4	1.1	0.9	0.7	0.6	0.5
0.0	0.0	0.2	1.4	4.2	6.2	6.4	5.8	4.9	4.0	3.2	2.5	2.0	1.6	1.3	1.0	0.8	0.7	0.6	0.5
0.0	0.0	0.1	0.7	2.3	3.8	4.1	3.9	3.6	3.1	2.5	2.1	1.7	1.4	1.1	0.9	0.8	0.6	0.5	0.4
0.0	0.0	0.1	0.3	1.1	1.9	2.4	2.5	2.4	2.2	1.9	1.6	1.4	1.2	1.0	0.8	0.7	0.6	0.5	0.4
0.0	0.0	0.1	0.2	0.5	0.9	1.3	1.5	1.6	1.5	1.4	1.3	1.1	1.0	0.8	0.7	0.6	0.5	0.4	0.4
0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3
0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3

NAME	DATE
TITLE	

DATE	REVISION DESCRIPTION	BY
04/04/24	VOLTAGE REVISION	

DATE: 02/27/2024	SCALE: SEE PLAN TITLE
DRAWN BY: BSA	CHECKED BY: BSA
JOB NO. 10252409	

APPLETON, WISCONSIN
OUTAGAMIE COUNTY
NORTHWEST LANDFILL
PHASE 1
ELECTRICAL - SITE PHOTOMETRIC PLAN

BID SET DRAWINGS - 04.04.2024