Consulting & Municipal ENGINEERS

CONSTRUCTION OF GCIA LEACHATE PUMP STATION AND FORCEMAIN

PLANNING DOCUMENT

NEW JERSEY INFRASTRUCTURE BANK
NEW JERSEY ENVIRONMENTAL INFRASTRUCTURE TRUST LOAN PROGRAM
FOR THE SFY 2026 FUNDING CYCLE

Gloucester County Improvement Authority

Gloucester County Solid Waste Complex
Gloucester County, New Jersey

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November 14, 2025

Consulting & Municipal ENGINEERS

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1. INTRODUCTION

The Gloucester County Improvement Authority ("GCIA") is applying to the New Jersey Department of Environmental Protection for Financial Assistance through the New Jersey Infrastructure Bank's (I-Bank) New Jersey Environmental Infrastructure Trust Fund (NJEIT) loan program for the SFY 2026 Funding Cycle. The Gloucester County Solid Waste Complex ("GCSWC") is located at 503 Monroeville Road, South Harrison Township, New Jersey 08085 (Block 9, Lot 1). The proposed project will involve the construction of a Leachate Pump Station at the GCSWC and approximately 13,500 linear feet of a 6" dia. forcemain for the conveyance of leachate.

Leachate generated at the facility is stored and conveyed via a system of storage tanks and associated piping. The leachate is collected and presently hauled off-site via truck for treatment at the Gloucester County Utility Authority's Wastewater Treatment Plant ("GCUA WWTP") located at 2 Paradise Road, West Deptford, NJ 08066.

The Leachate Force Main is proposed to run along Monroeville Road and Glen Echo Avenue, interconnecting the proposed pump station with the Swedesboro Pump Station, which is currently under construction under a separate contract. The location of the sites is shown on a USGS topographic map included as **Figure 1** – Site Location Map. The location of the GCIA Leachate Pump Station and the Forcemain features are depicted on **Figure 2** – Site Plan.

On March 20, 2025, the GCIA passed a resolution authorizing its executive staff and professionals to submit a Letter of Intent to participate in the I-Bank's NJEIT financing program and an Application for Financial Assistance and other documentation to obtain a low-interest loan for the construction of the GCIA Leachate Pump Station and Forcemain.

2. PROJECT PURPOSE AND NEED

The Gloucester County Improvement Authority entered into an agreement with the Gloucester County Utility Authority (GCUA), Woolwich Township, and the Borough of Swedesboro for the design and construction of a common Force Main and a series of Pump Stations to convey sewage from the GCSWC, Swedesboro, and Woolwich to ultimately be discharged and treated at the GCUA WWTP.

The construction of the common Force Main began in 2022 and has been constructed in a phased manner. As of today, three (3) of the four (4) phases have been constructed and the third (3rd) is currently under construction. The construction of the GCIA Leachate Pump Station and Connecting Force Main will be the last phase constructed of this regional project.

This portion of the overall project will convey leachate from the proposed GCIA Leachate Pump Station at the Gloucester County Solid Waste Complex to a new Pump Station, currently under construction, that will be owned and operated by the Borough of Swedesboro. The Swedesboro Pump Station will in turn pump wastewater to the common Force Main and ultimately to a GCUA Interceptor. The Woolwich and Swedesboro Pump Stations and the Common Force Main were and are being constructed and financed under separate contracts and are not the subject of this Planning Document.

The construction of the GCIA Leachate Pump Station and Force Main will enable the conveyance of leachate via proposed and existing infrastructure directly to the GCUA's system, eliminating the current method of hauling via truck the leachate generated at the Solid Waste Complex. At the Swedesboro Pump Station, the conveyed leachate will combine with gravity sewer flows from the Borough of Swedesboro, and the combined flow will be conveyed to the GCUA WWTP for treatment, ultimately leading to the abandonment of the existing Swedesboro WWTP.

The construction of the GCIA Leachate Pump Station and Force Main will significantly improve watershed quality by eliminating the need to truck leachate from the Gloucester County Solid Waste Complex, thereby reducing the risk of spills and accidental discharges to local waterways. By conveying leachate through a closed pipeline system directly to the Gloucester County Utility Authority Wastewater Treatment Plant, the project ensures that leachate receives advanced, consistent treatment that removes pollutants before discharge.

3. PLANNING AREA

The Gloucester County Solid Waste Complex ("GCSWC") landfill was initially constructed to address the solid waste disposal needs of Gloucester County. Accordingly, the GCSWC landfill is being operated in accordance with the Gloucester County District Solid Waste Management Plan (SWMP), approved by the New Jersey Department of Environmental Protection (NJDEP) on September 26, 1980. The SWMP was prepared pursuant to the New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.). The SWMP includes the current and projected waste generation for the Gloucester County; an inventory and an appraisal of all the facilities in Gloucester County; and an analysis of the waste collection and transportation systems which serve the County.

However, a federal court decision on May 1, 1997, resulted in a deregulation of the solid waste disposal practices in New Jersey. The deregulation has resulted in lower tipping fees and a decreased income. To maximize income potential, the GCSWC landfill now receives solid waste from outside Gloucester County.

Gloucester County had roughly 302,000 people as of the 2020 Census, with modest growth in recent years. The population is predominantly White (around 75%), with Black or African American residents making up about 10%, Hispanic or Latino about 7%, Asian about 3 %, and smaller percentages of people identifying as multiracial or other races. The median age in the county is approximately 40 years, and about 17% of the population is aged 65 or older. Economically, Gloucester County is relatively affluent, with a median household income of around $102,800 (2019–2023). The poverty rate is fairly low, approximately 8–9%.

4. EXISTING FACILITIES

The landfill has been expanded in a phased approach and in its present configuration occupies about 149 acres. The GCSWC currently consists of the following ancillary structures:

- Phase I, II, III, IV, V, VI, VII, & IX Landfills
- Scale House
- Maintenance Garage
- Administration Building
- Convenience Center
- Recycling Center
- Leachate Storage Tanks
- Landfill Gas Collection and Flare System
- Stormwater management Facilities

The Phases include Phase I (Cells 1A and 1B), Phase II (Cells 3 and 5), Phase III (Cells 7 and 9), Phase IV (Cells 2 and 4), Phase V (Cell 6), Phase VI (Cells 10A, 10B, 11A and part of 11B) and Phase VII (part of Cell 11B, Cell 12, Cell 13, Cell 14, and Cell 15), and Phase IX (Cells 16, 17, 18, 19, 20, and 21). Previously, NJDEP issued a Solid Waste Facility Permit for Phase VIII Expansion (Cells 16 and 17) on November 19, 2014. Cells 16 and 17 were subsequently relocated during the proposed design of a larger landfill expansion, Phase IX, which replaced the Phase VIII Expansion.

5. PROPOSED IMPROVEMENTS

The Gloucester County Improvement Authority (GCIA) has authorized the design of a Pump Station and a Force Main to convey leachate from the eastern boundary of the Gloucester County Authority landfill. The approximately 13,500 linear feet of 6” DR-9 HDPE pipe Leachate Force Main will run along the right-of-way of Monroeville Road and Glen Echo Avenue to a discharge manhole ahead of a new Pump Station situated at the existing Borough of Swedesboro WWTP (Block 23, Lot 14).

The Gloucester County Authority Landfill Leachate Pump Station is designed for a peak flow of 200,000 GPD, which equates to an effective flow rate of 278 GPM over its planned 12-hour daily

operation (7 days a week). This operational schedule, despite the continuous (24/7) generation of leachate at the landfill, is feasible due to existing on-site leachate 10-day storage capacity tanks, which will remain in use.

The Landfill Pump Station will be comprised of the following components:

- A wet well containing an influent debris basket, submersible pumps, discharge piping, and level controls.
- A below-grade valve and meter chamber containing piping, valves, a flowmeter, pressure gauges and a bypass pipe riser.
- A control building to house electrical and control equipment including the incoming electrical service, transfer switch, variable frequency drives and pump station controls and appurtenances.
- A jib crane to facilitate pump removal and provisions for installation of an odor control system
- A diesel fueled standby generator located at the site of the proposed Pump Station.

All aspects of the proposed Pump Station will be designed and constructed to modern engineering standards NJDEP and GCUA Rules and Regulations. The total land disturbance area is approximately 7.3 acres.

6. "NO ACTION" ALTERNATIVE

If the "no action" alternative for the proposed project was selected, the Leachate Pump Station and Force Main to convey leachate from the GCIA Solid Waste Management Complex to the Swedesboro Pump Station will not be constructed. Leachate hauling via truck will continue.

7. SELECTED PLAN

The selected plan is in accordance with the proposed improvements for the construction of the Leachate Pump Station and Force Main as described in Section 5.

8. ENVIRONMENTAL REVIEW

Project Qualifiers for a Level 1 Environmental Review

The construction of the Leachate Pump Station and Force Main qualifies for a Level 1 Environmental Review under N.J.A.C. 7:22-10.4 section (a) numbers 1 and 2. Under section (b) of N.J.A.C. 7:22-10.4, conditions which would disqualify a project from a Level 1 Environmental Review include the following: there will be no new permanent adverse (other than aesthetic) or significant temporary adverse direct or indirect impacts on the human environment, cultural

resources, endangered or threatened species or habitats, wetlands, floodplains, important farmlands or other environmentally critical areas.

Site Geography

Geology

Bedrock geology in the project area consists of several formations including Englishtown Formation, Marshalltown Formation, Mt. Laurel Formation, Navesink Formation, Hornerstown Formation and Lower Member Kirkwood Formation.

> *Englishtown Formation – fine- to coarse-grained quartz sand, locally interbedded with thin to thick beds of clay*
>
> *Marshalltown Formation – quartz and glauconite sand, silty, and clayey*
>
> *Mt. Laurel Formation – Fine- to coarse-grained quartz sand, slightly glauconitic*
>
> *Navesink Formation – glauconite sand, clayey*
>
> *Hornerstown Formation – glauconite sand, fine- to medium- grained*
>
> *Lower Member Kirkwood Formation – quartz sand and clay*

Surficial geology of the project area consists of saltmarsh and estuarine deposits, Cape May Formation – Unit 2, swamp and marsh deposits, upper stream terrace deposits, weathered coastal plain formations, Pennsauken formation and Bridgeton formation.

> *Saltmarsh and estuarine deposits – Silt, sand, peat, clay, minor pebble gravel. Colors include brown, dark-brown, gray and black. Layers are typically 100 feet thick outside of the Hudson Valley. This formation contains abundant organic matter deposited in salt marshes, estuaries and tidal channels during Holocene sea-level rise.*
>
> *Cape May Formation, Unit 2 – Sand, pebble gravel, minor silt, peat, and cobble gravel. Colors include very pale brown, yellow, reddish yellow, white, olive yellow and gray. Layers are typically less than 50 feet thick outside of the Cape May Peninsula.*
>
> *Swamp and marsh deposits – Peat and organic clay, silt and minor sand. Colors include gray, brown, and black. Layers can be up to 40 feet thick.*
>
> *Upper Stream Terrace Deposits – Sand and pebble gravel, minor silt and cobble gravel. Colors include yellow, reddish yellow and yellowish brown. Layers can be up to 20 feet thick.*

Weathered coastal plain formations – Exposed sand and clay of Coastal Plain bedrock formations, including thin patchy alluvium and colluvium and pebbles left from erosion of surficial deposits.

Pensauken formation – Sand, clayey sand, pebble gravel, minor silt, clay and cobble gravel, with sand typically including weathered feldspar. Colors include yellow, reddish yellow and white. Layers can be up to 40 feet thick.

Bridgeton formation – Sand, clayey sand, pebble gravel, minor silt and cobble gravel, with sand typically including weathered feldspar. Colors include reddish-yellow, red, yellow, white and very pale brown. Layers can be up to 40 feet thick.

Soils

The project site is overlain by a variety of soil units listed in the table below.

Soil Unit	**Abbreviation**	**Slope (%)**
Aura-Urban land complex	AvuB	0-5
Berryland and mullica soils	BEXAS	0-2
Colts Neck sandy loam	CosB	2-5
Soil Unit	**Abbreviation**	**Slope (%)**
Fluvaquents loamy	FmhAt	0-3
Freehold loamy sand	FrfB	0-5
Freehold loamy sand	FrfC	5-10
Freehold sandy loam	FrkA	0-2
Freehold sandy loam	FrkB	2-5
Freehold sandy loam	FrkC	5-10
Freehold sandy loam	FrkE	15-25
Freehold-Urban land complex	FrrB	0-5
Marlton sandy loam	MaoB	2-5
Marlton sandy loam	MaoC	5-10
Marlton sandy loam	MaoD2	10-15
Sassafras loamy sand	SabD	10-15
Urban Land	UR	
Westphalia fine sandy loam	WeeB	2-5
Westphalia fine sandy loam	WeeC	5-10
Westphalia fine sandy loam	WeeD	10-15
Woodstown sandy loam	WoeA	0-2

Land Use

Land use within the project area consists of transportation/communication/utilities, commercial, residential – single unit, low and medium density, and rural – single unit, deciduous forest (10-50% crown closure), coniferous forest (>50% crown closure), bridges, tidal rivers, cropland and pastureland, stormwater basin, and altered land.

Surface Waters

The project site is within the regulated areas of the tidal Church Run. The Church Run is classified as an FW2-NT waterway according to the NJDEP (according to the rules found within the Surface Water Quality standards found at N.J.A.C. 7:9B) and as a result will require a 50-foot riparian zone. The "FW2" classification denotes any freshwaters that are not designated as FW1 waters, which requires the maintenance of the natural state of water quality and prohibits anthropogenic wastewater discharges or runoff increases. The "NT" classification indicates "non-trout" waters or waterways that do not support trout production or maintenance and are generally not suitable for sustaining trout due to physical, chemical, or biological characteristics.

Threatened and Endangered Species

Based on a preliminary review of the NJDEP's Online GIS Resource's "Landscape Layer", there appears to be habitat for threatened or endangered species on and within the vicinity of the project site. The project area has documented breeding sightings of the State threatened bobolink, eastern meadowlark, Savannah sparrow, horned lark, and grasshopper sparrow. Additionally, there is documented occupied habitat for the federally listed bog turtle and migration corridors for the Atlantic sturgeon and short nose sturgeon within the area of the project site.

Wetlands

According to the NJDEP's GeoWeb Online GIS Resource, there are no wetlands within the project area.

Flood Hazard Area

According to FEMA Firm Maps 34015C0068F and 34015C0156E, the proposed project is not located within the Flood Hazard Area.

Historic & Cultural Resources

The project area is located within identified archeological grids AC221, AD221 and AD222 and three identified historic properties exist along the project area including identified Monroeville Road, SE of town, and Swedesboro-Franklinville Road (CR 538) Bridge.

Probable Environmental Impacts

Surface Waters

The construction of the Force Main will require a water crossing utilizing the attachment of the Force Main, within a sealed casing pipe, to an existing bridge over the Church Run. The project proposes less than 0.05 acres of temporary riparian zone disturbance, occurring in gravel areas and maintained lawn. A Waterfront Development Individual Permit (Waterward) and Waterfront Development Individual Permit (Landward) have been obtained for the proposed construction (NJDEP File No: 0800-21-0003.1).

Threatened and Endangered Species

This project is not anticipated to impact any threatened or endangered species as work will occur within an already developed area.

Wetlands

This project will not result in any disturbance to freshwater wetlands or freshwater wetland transition area.

Flood Hazard Area

The project will not take place within the flood hazard area. Additionally, the project proposes less than 0.05 acres of temporary riparian zone disturbance in accordance with NJDEP Flood Hazard Area Control Act Rules (N.J.A.C. 7:13) and approved under NJDEP File No 0800-21-0003.1.

Historic & Cultural Resources

The project will not impact any listed historic properties during construction.

Beneficial and Adverse Impact Summary

The proposed project will result in less than 0.05 acres of temporary riparian zone disturbance. Riparian zone disturbance will be limited to areas of gravel and maintained lawn. Overall, the project will result in temporary impacts to the environment during construction however it will not result in any adverse environmental or cultural impacts.

Social and Economic Impacts

The proposed project is not expected to result in any permanent adverse social or economic impacts; however, some temporary noise and visual impacts are expected during the construction. Project activities will operate within established regulatory limits, ensuring that noise, odors, and air emissions remain minimal and well below thresholds that could affect surrounding communities. The project will also maintain the existing visual character and aesthetics of the area, with no significant changes to the landscape once restoration is complete. Because construction plans incorporate best management practices and compliance with all applicable environmental

standards, no negative effects on community well-being, local businesses, or quality of life are anticipated.

9. REQUIRED PERMITS

1. Waterfront Development Individual Permit
2. Gloucester County Soil Conservation District Soil Erosion and Sediment Control Plan certification for the Pump Station and Leachate Force Main.
3. Treatment Works Approval (TWA) for the Pump Station.
4. Treatment Works Approval (TWA) for the Leachate Force Main.
5. Township Building Approval for the Pump Station.
6. Army Corp of Engineers Nationwide Permit (NWP) 58 – Utilities Line Activities for Water and Other Substances pursuant to Section 10 of the Rivers and Harbors Act of 1899 (USC 403)

All required permits will be obtained prior to the commencement of construction activities.

10. DESIGN STANDARDS

The Project components will be designed in accordance with accepted industry standards, GCIA and GCUA regulations, N.J.A.C. 7:14A-22 (Treatment Works Approvals) and other applicable NJDEP Standard permits and requirements.

11. SITE PLAN

The site plan for the proposed Pump Station and Leachate Force Main is included as **Figure 2** – Site Plan.

12. PROJECT COSTS

The preliminary total construction cost estimate is **$9,968,610.00**. This includes the estimated cost of **$3,145,795.00** for the GCSWC Monroeville Road Pump Station (GCIA Leachate Pump Station) (see **Schedule A** – GCIA Monroeville Road Pump Station) and **$6,822,815.00** for the associated Leachate Force Main (see **Schedule B** – Force Main from GCIA Monroeville Road Pump Station to Swedesboro Pump Station). A summary of these costs is included in **Attachment 1** – Engineer's Opinion of Probable Construction Cost.

Anticipated Operation and Maintenance costs are estimated to be $150,000 annually. Repair and replacement costs are expected to be $50,000 annually.

13. PUBLIC PARTICIPATION

The GCIA will publish a notice in the appropriate newspaper of general circulation in the planning area to announce the intent to implement an Infrastructure Bank Project and solicit input from the affected public. If required by the NJDEP, a public hearing and promulgation will be similarly noticed and documented. The notice will indicate that the environmental planning document and the NJDEP decision statement are available at the GCIA Office for public review.

14. COST ANALYSIS

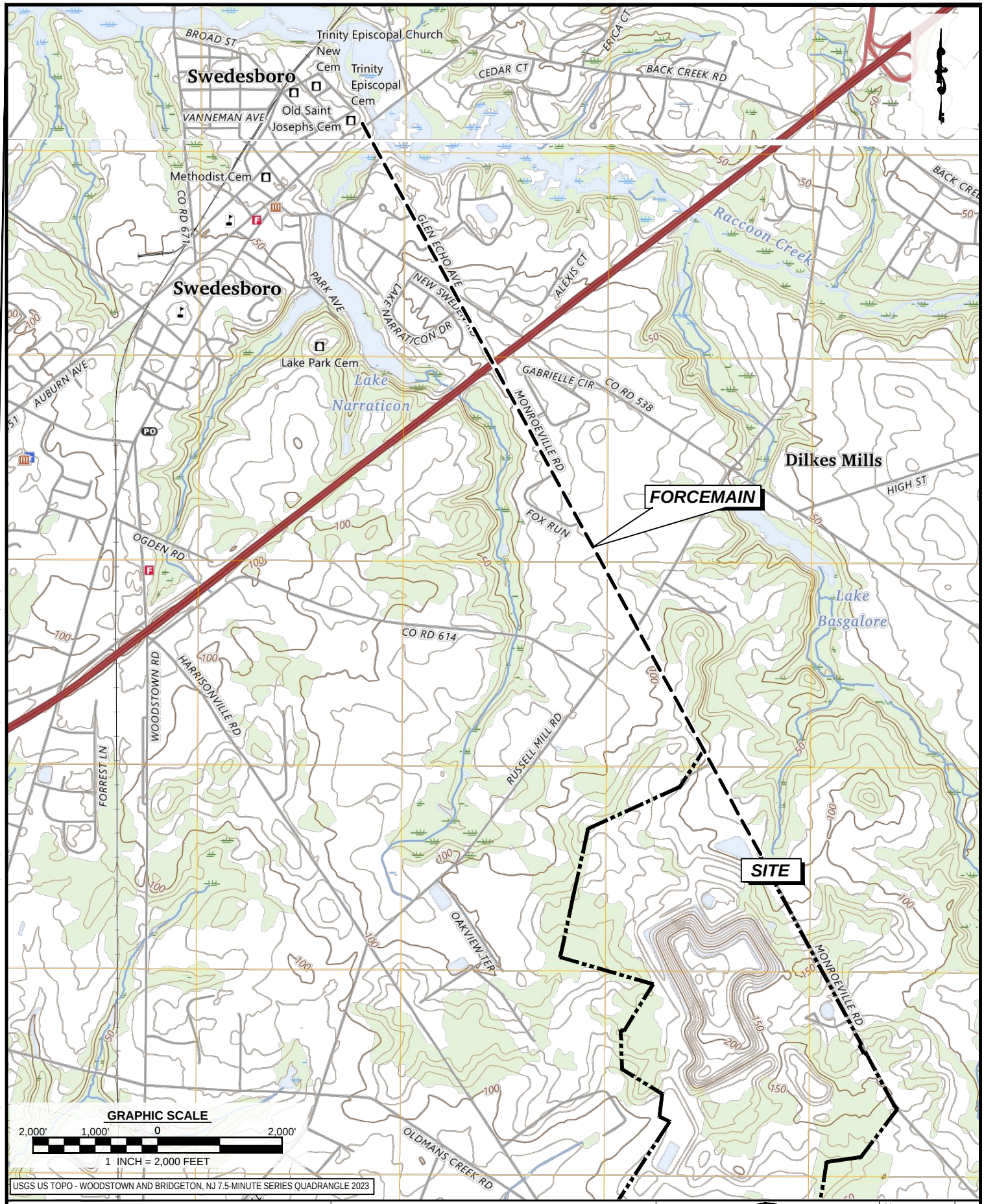
GCIA has established tipping fees for NJDEP approved waste types that the facility receives. GCIA has the financial capacity to repay the I-Bank loan from its operating budget over the term of the loan.

15. PROJECT SCHEDULE

In anticipation of the approval of this Project Report, the GCIA expects to move forward to meet the FY 2026 schedule to be included in their commitment letter. The intended schedule for this project is as follows:

Activity	FY 2025
Commitment Letter	November 24, 2025
Planning Documents	November 17, 2025
Design Documents	December 17, 2025
Loan Application	December 17, 2025
Advertise for Bids	March 11, 2026
Receive Bids	April 12, 2026
Award Contract	April 16, 2026
Complete Project	April 16, 2027

Figures



GLOUCESTER COUNTY SOLID WASTE COMPLEX
NJDEP SOLID WASTE FACILITY ID No. 132199
SOUTH HARRISON TOWNSHIP, GLOUCESTER COUNTY, NEW JERSEY

PREPARED FOR
GLOUCESTER COUNTY IMPROVEMENT AUTHORITY
109 BUDD BOULEVARD, WOODBURY, GLOUCESTER COUNTY, NEW JERSEY

GCIA LEACHATE PUMP STATION AND FORCE MAIN

FIGURE 1
SITE LOCATION MAP

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
1 TOWER CENTER BLVD - FLOOR 20, EAST BRUNSWICK, NJ 08816
PHONE: 732.951.2101 FAX: 732.951.2106

SCALE:
SHEET NO:
DATE: OCTOBER 2025
FILE NO.:

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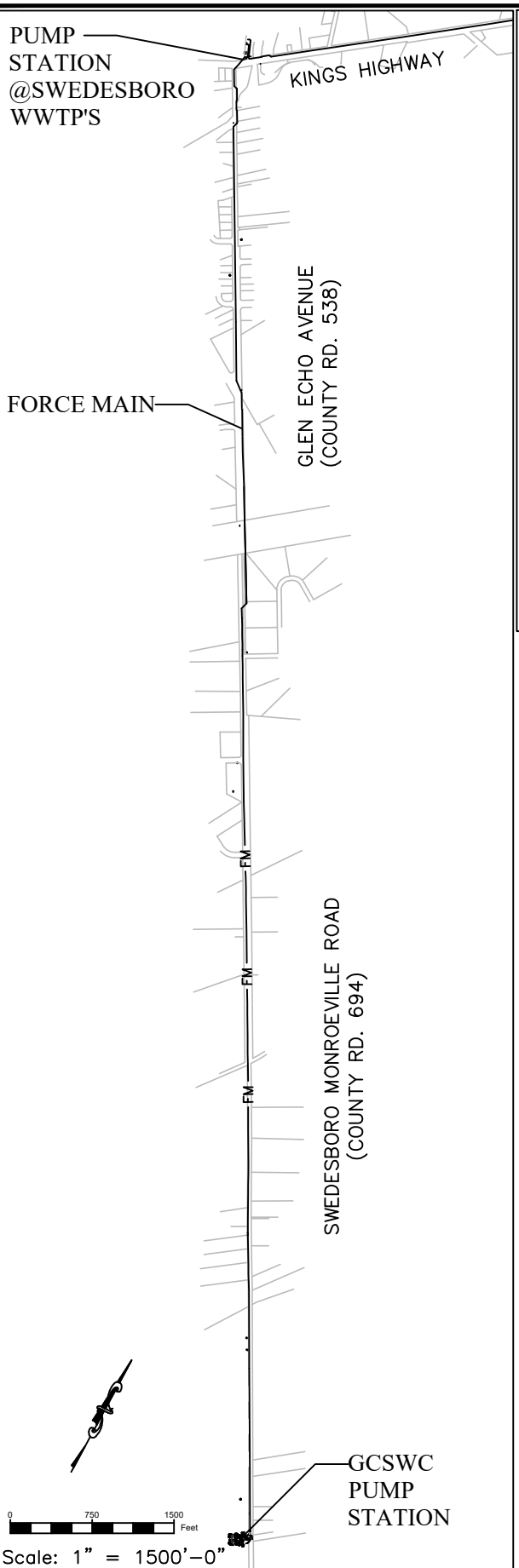

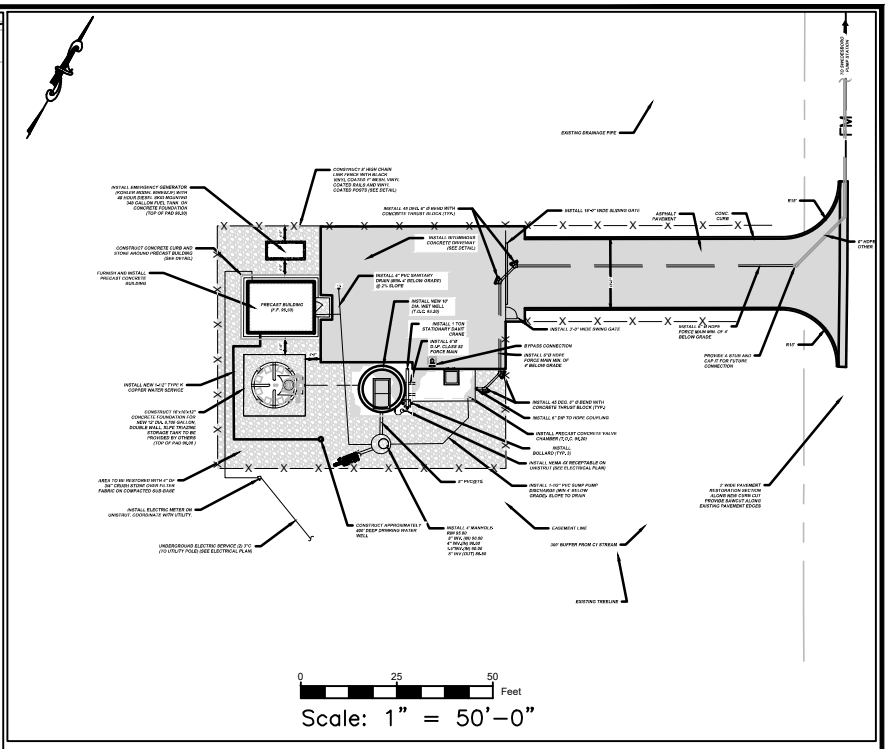

GCSWC PUMP STATION
SITE PLAN

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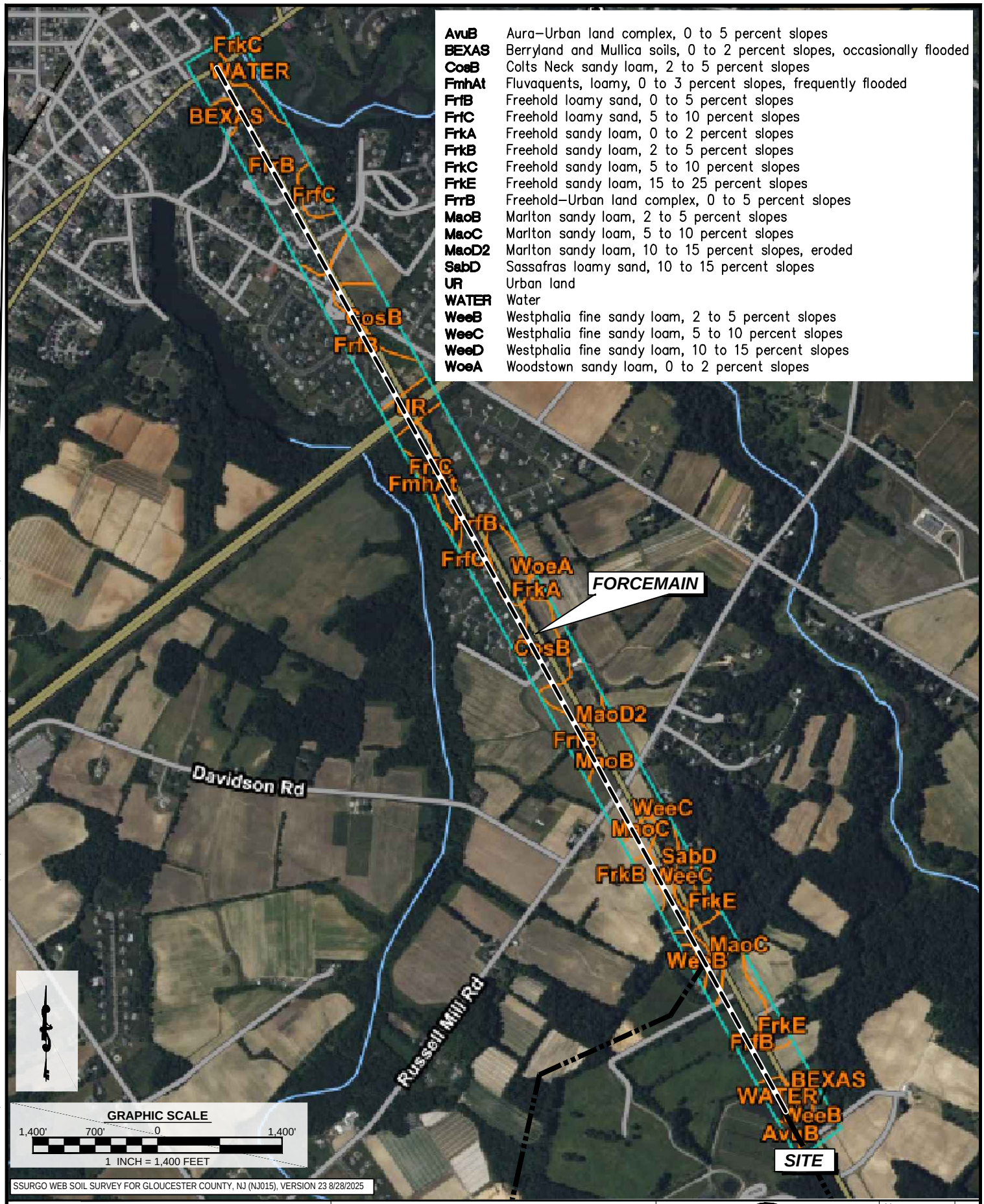
GLOUCESTER COUNTY SOLID WASTE COMPLEX
NJDEP SOLID WASTE FACILITY ID No. 132199
SOUTH HARRISON TOWNSHIP, GLOUCESTER COUNTY, NEW JERSEY

PREPARED FOR
GLOUCESTER COUNTY IMPROVEMENT AUTHORITY
109 BUDD BOULEVARD, WOODBURY, GLOUCESTER COUNTY, NEW JERSEY

GCIA LEACHATE PUMP STATION AND FORCE MAIN
FIGURE 2
SITE PLAN

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
1 TOWER CENTER BLVD - FLOOR 20, EAST BRUNSWICK, NJ 08816
PHONE: 732.951.2101 FAX: 732.951.2106

SCALE:
SHEET NO:
DATE: OCTOBER 2025
FILE NO.:



GLOUCESTER COUNTY SOLID WASTE COMPLEX
NJDEP SOLID WASTE FACILITY ID No. 132199
SOUTH HARRISON TOWNSHIP, GLOUCESTER COUNTY, NEW JERSEY

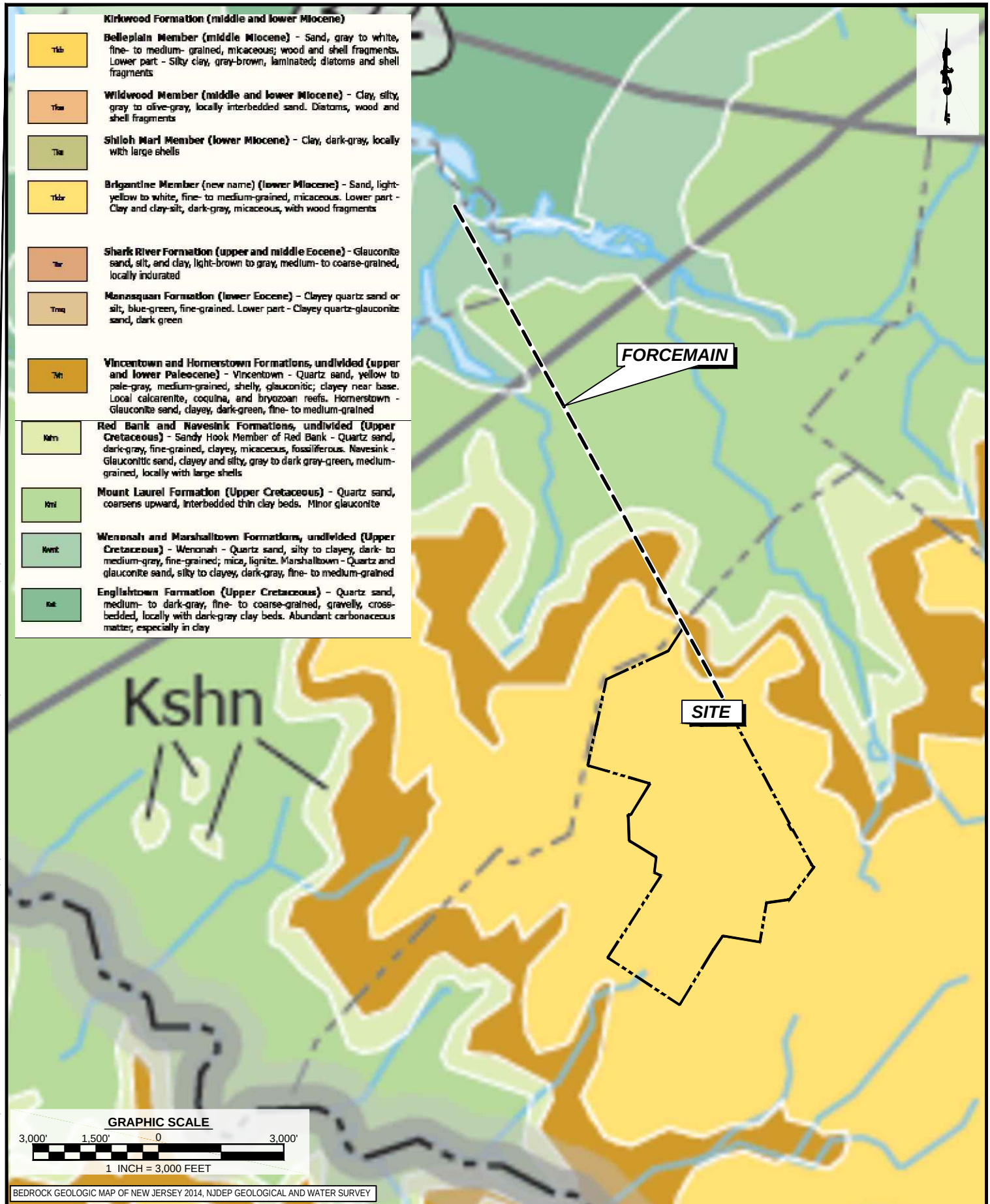
PREPARED FOR
GLOUCESTER COUNTY IMPROVEMENT AUTHORITY
109 BUDD BOULEVARD, WOODBURY, GLOUCESTER COUNTY, NEW JERSEY

GCIA LEACHATE PUMP STATION AND FORCE MAIN
FIGURE 3
SOILS MAP

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
1 TOWER CENTER BLVD - FLOOR 20, EAST BRUNSWICK, NJ 08816
PHONE: 732.951.2101 FAX: 732.951.2106

SCALE:
SHEET NO:
DATE: OCTOBER 2025
FILE NO.:

P:\100 CME7\GLOUCESTER COUNTY\SOLIDWASTE ENGINEER_GLOUCESTER LANDFILL\CAD\MUNICIPAL\FIG 3 SOILS MAP.DWG, 10/31/25 12:56:15PM, LAYOUT: SOILS (2)



BEDROCK GEOLOGIC MAP OF NEW JERSEY 2014, NJDEP GEOLOGICAL AND WATER SURVEY

GLOUCESTER COUNTY SOLID WASTE COMPLEX
NJDEP SOLID WASTE FACILITY ID No. 132199
SOUTH HARRISON TOWNSHIP, GLOUCESTER COUNTY, NEW JERSEY

PREPARED FOR
GLOUCESTER COUNTY IMPROVEMENT AUTHORITY
109 BUDD BOULEVARD, WOODBURY, GLOUCESTER COUNTY, NEW JERSEY

GCIA LEACHATE PUMP STATION AND FORCE MAIN

FIGURE 4
BEDROCK GEOLOGIC MAP

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
1 TOWER CENTER BLVD - FLOOR 20, EAST BRUNSWICK, NJ 08816
PHONE: 732.951.2101 FAX: 732.951.2106

SCALE:
SHEET NO:
DATE: OCTOBER 2025
FILE NO.:

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Attachment 1

Engineer's Opinion of Probable Construction Cost

GLOUCESTER COUNTY IMPROVEMENT AUTHORITY (GCIA)
CONSTRUCTION OF GCIA LEACHATE PUMP STATION AND ASSOCIATED FORCE MAIN
AT THE
GLOUCESTER COUNTT SOLID WASTE COMPLEX
ENGINEER'S ESTIMATE

ITEM NO.	BID ITEM DESCRIPTION	QUANTITY		COST ESTIMATE	
				UNIT COST	EXTENDED COST
Schedule A - GCIA Monroeville Road Pump Station					
1	Mobilization/Demobilization in Accordance with N.J.A.C. 7:14-2.9	1	LS	$ 95,000.00	$ 95,000.00
2	Earth Excavation for Test Pits (Only If and Where Ordered)	25	CY±	$ 1,000.00	$ 25,000.00
3	Site Clearing, Soil Erosion and Sediment Control	1	LS	$ 25,000.00	$ 25,000.00
4	Excavation, Unclassified (Only If and Where Ordered)	100	CY±	$ 75.00	$ 7,500.00
5	Disposal of Contaminated Soil (Only If and Where Ordered)	120	CY±	$ 80.00	$ 9,600.00
6	Bankrun Sand and Gravel	75	CY±	$ 55.00	$ 4,125.00
7	NJDOT No. 57 Stone (Only If and Where Ordered)	100	CY±	$ 80.00	$ 8,000.00
8	DGA Fill Material (Only If and Where Ordered)	65	CY±	$ 90.00	$ 5,850.00
9	Pump Station Controls Building	1	LS	$ 1,125,000.00	$ 1,125,000.00
10	Precast Concrete Wet Well Work	1	LS	$ 600,000.00	$ 600,000.00
11	Pump Station Valve Chamber	1	LS	$ 125,000.00	$ 125,000.00
12	Jib Crane, Hoist, and Foundation	1	LS	$ 90,000.00	$ 90,000.00
13	Odor Control System Work	1	LS	$ 60,000.00	$ 60,000.00
14	Micropiles Mobilization/Demobilization (Only if and Where Ordered)	1	LS	$ 25,000.00	$ 25,000.00
15	Micropiles from Base of Socket to Cutoff (Only If and Where Ordered)	1,112	LF	$ 85.00	$ 94,520.00
16	Pump Station Electrical	1	LS	$ 275,000.00	$ 275,000.00
17	Pump Station Instrumentation and Controls	1	LS	$ 90,000.00	$ 90,000.00
18	Plumbing	1	LS	$ 75,000.00	$ 75,000.00
19	Pump Station Site Improvements	1	LS	$ 150,000.00	$ 150,000.00
20	Miscellaneous Concrete, Class B (Only If and Where Ordered)	40	CY±	$ 500.00	$ 20,000.00
21	HMA 19M64 Base Course, 6" Thick	130	TN	$ 125.00	$ 16,250.00
22	HMA 9.5M64 Surface and Leveler Course, 2" Thick	45	TN	$ 150.00	$ 6,750.00
23	4' Dia. Manhole 6'-8' Deep	1	UN	$ 15,000.00	$ 15,000.00
24	6" Dia. HDPE Force Main	107	LF	$ 200.00	$ 21,400.00
25	18" Dia. PVC Sewer	6	LF	$ 300.00	$ 1,800.00
26	Potable Water Well	400	LF	$ 150.00	$ 60,000.00
27	Allowance for Coordination with Local Utilities (Only If and Where Ordered)	1	AL	$ 5,000.00	$ 5,000.00
28	Allowance for Unforseen Subsurface Conditions (Only If and Where Ordered)	1	AL	$ 10,000.00	$ 10,000.00
29	Allowance for Work Not Specified (Only If and Where Ordered)	1	AL	$ 100,000.00	$ 100,000.00
TOTAL SCHEDULE A BID ITEMS 1 - 29				**$**	**3,145,795.00**

GLOUCESTER COUNTY IMPROVEMENT AUTHORITY (GCIA)
CONSTRUCTION OF GCIA LEACHATE PUMP STATION AND ASSOCIATED FORCE MAIN
AT THE
GLOUCESTER COUNTT SOLID WASTE COMPLEX
ENGINEER'S ESTIMATE

ITEM NO.	BID ITEM DESCRIPTION	QUANTITY		COST ESTIMATE	
				UNIT COST	EXTENDED COST
Schedule B - Forcemain from GCIA Monroeville Road Pump Station to Swedesboro Pump Station					
1	Mobilization/Demobilization in Accordance with N.J.A.C. 7:14-2.9	1	UN	$ 250,000.00	$ 250,000.00
2	Soil erosion and sediment control	1	LS	$ 50,000.00	$ 50,000.00
3	6" HDPE	13,740	LF	$ 175.00	$ 2,404,500.00
4	6" ductile iron pipe	349	LF	$ 175.00	$ 61,075.00
5	12" HDPE Turnpike casing	1,110	LF	$ 220.00	$ 244,200.00
6	12" ductile iron pipe	27	LF	$ 220.00	$ 5,940.00
7	16" ductile iron pipe	180	LF	$ 300.00	$ 54,000.00
8	12" directional drill	1,110	LF	$ 500.00	$ 555,000.00
9	12" stainless steel casing	80	LF	$ 220.00	$ 17,600.00
10	6" valves	6	UN	$ 2,000.00	$ 12,000.00
11	16" valves	3	UN	$ 20,000.00	$ 60,000.00
12	Traffic control	1	UN	$ 750,000.00	$ 750,000.00
13	Air release manhole, complete	2	UN	$ 70,000.00	$ 140,000.00
14	4' dia. Manhole	4	UN	$ 20,000.00	$ 80,000.00
15	7' dia. Manhole	1	UN	$ 35,000.00	$ 35,000.00
16	Fittings all sizes	25	UN	$ 2,500.00	$ 62,500.00
17	Test pits (via hydrovac)	3	UN	$ 2,500.00	$ 7,500.00
18	Test pits	25	UN	$ 1,500.00	$ 37,500.00
19	Dense graded aggregate base course, 6" thick	1,000	CY±	$ 90.00	$ 90,000.00
20	Fertilizing and seeding, Type A-3	1,000	SY	$ 3.00	$ 3,000.00
21	Hot mix asphalt surface course, 12.5M64, 2" thick	2,500	TN	$ 150.00	$ 375,000.00
22	Hot mix asphalt base course, 19M64, 6" thick	1,500	TN	$ 125.00	$ 187,500.00
23	Traffic stripes, long life, epoxy resin 4" wide	40,000	LF	$ 2.00	$ 80,000.00
24	Topsoiling, 4" thick	1,500	SY	$ 7.00	$ 10,500.00
25	Glen echo bridge crossing	80	LF	$ 1,000.00	$ 80,000.00
26	Guiderail remove and replace	1	LS	$ 20,000.00	$ 20,000.00
27	Gabion/reno mattress replacement	2	UN	$ 10,000.00	$ 20,000.00
28	Mill , 2" thick	21,500	SY	$ 5.00	$ 107,500.00
29	15:1 Soil Cement Backfill	2,500	CY±	$ 125.00	$ 312,500.00
30	Select backfill (Only If and Where Ordered)	1,750	CY±	$ 60.00	$ 105,000.00
31	Miscellaneous concrete improvements	1	LS	$ 25,000.00	$ 25,000.00
32	Allowance for Coordination with Local Utilities (Only If and Where Ordered)	1	AL	$ 15,000.00	$ 15,000.00
33	Allowance for Unforseen Subsurface Conditions (Only If and Where Ordered)	1	AL	$ 50,000.00	$ 50,000.00
34	Allowance for Asphalt Price Adjustment (Only If and Where Ordered)	1	AL	$ 10,000.00	$ 10,000.00
35	Allowance for Fuel Price Adjustment (Only If and Where Ordered)	1	AL	$ 5,000.00	$ 5,000.00
36	Allowance (Only If and Where Ordered)	1	AL	$ 500,000.00	$ 500,000.00
TOTAL SCHEDULE B BID ITEMS 1 - 36				**$**	**6,822,815.00**
BID TOTAL (SCHEDULE A + B)				**$**	**9,968,610.00**