

PERMIT DRAWINGS

FOR

PLANT KRAFT

GRUMMAN ROAD ASH LANDFILL

CHATHAM COUNTY, GEORGIA

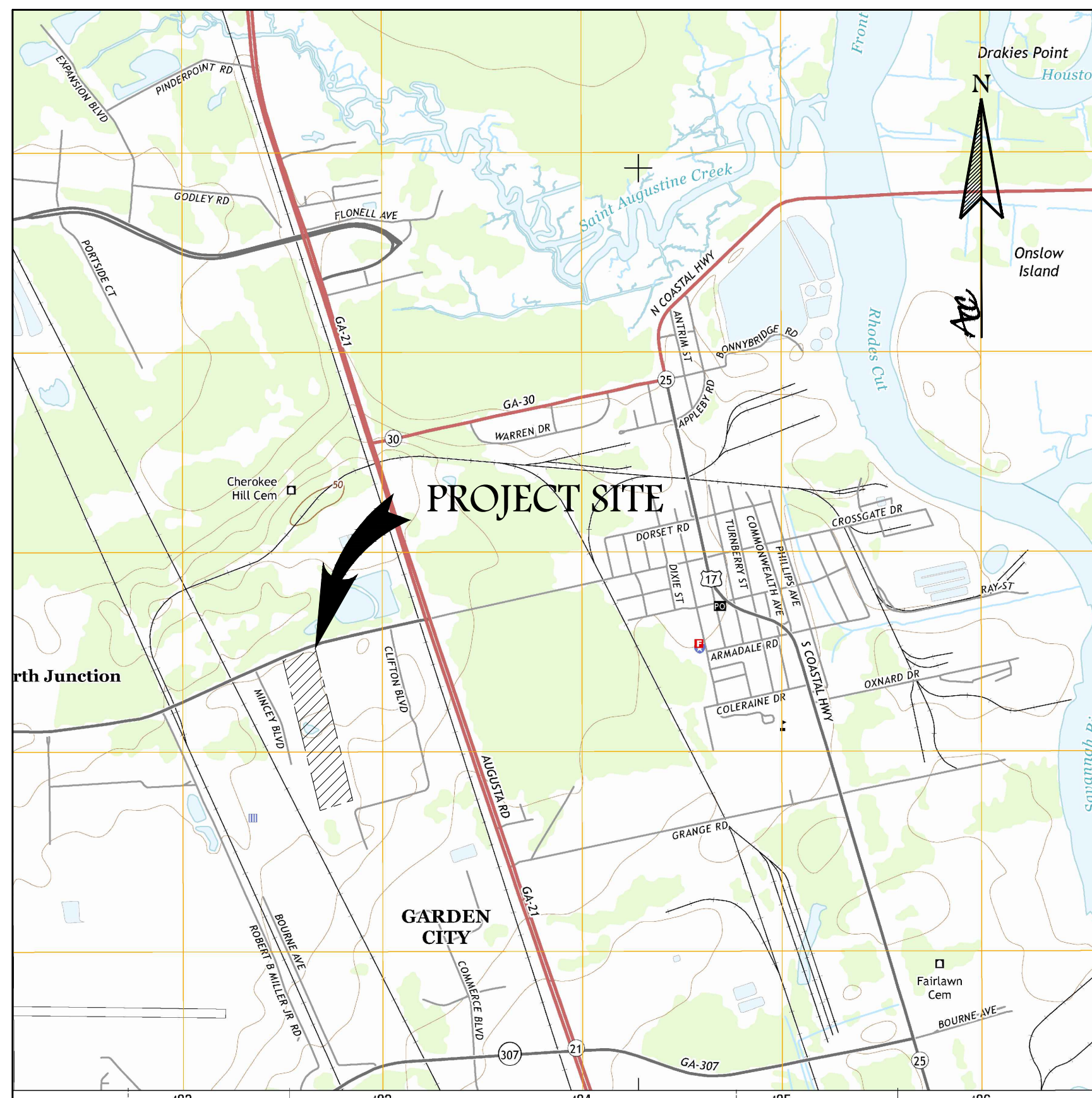
MAY 2023

OWNER/OPERATOR

GEORGIA POWER
 241 RALPH MCGILL BLVD, NE
 BIN 10221
 ATLANTA, GA 30308
 (404) 506-2533

RESPONSIBLE OFFICIAL

GENERAL MANAGER - ENVIRONMENTAL AFFAIRS
 GEORGIA POWER COMPANY
 241 RALPH MCGILL BLVD
 ATLANTA, GA 30308



PROJECT SITE LOCATION
 Scale: 1" = 2000'
 Source: USGS Quad Map Dated 2014
 Port Wentworth, Georgia-South Carolina

REVISION HISTORY

DATE	SHEETS	REVISION

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER
2	PROPERTY BOUNDARY AND LEGAL DESCRIPTION
3	EXISTING CONDITIONS PLAN (2018)
4	FINAL GRADING PLAN
5	COMPLIANCE MONITORING NETWORK
6	EROSION, SEDIMENTATION & STORMWATER CONTROL PLAN
7	CROSS SECTIONS
8	CROSS SECTIONS
9	STORMWATER DETAILS
10	CLOSURE DETAILS

ACC

Atlantic Coast Consulting, Inc.
 1150 Northmeadow Parkway, Suite 100, Roswell, GA 30076
 770-594-5998



GENERAL NOTES

EQUIPMENT USED TO OBTAIN THESE MEASUREMENTS WAS A TRIMBLE S3 TOTAL STATION.
 BEARINGS ARE CALCULATED FROM ANGLES TURNED FROM A SINGLE GRID BASELINE.
 THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS AND BASED ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY eGPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983 (NAD83)-STATE PLANE COORDINATE SYSTEM OF GEORGIA-EAST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988 (SITE BM VERIFIED AS ACCURATE). ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR, GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.
 FIELD WORK COMPLETED: 03/9/23

BY GRAPHIC PLOTTING ONLY, NO PORTION OF THIS SITE IS LOCATED WITHIN FLOOD HAZARD AREA "A", AS PER THE FLOOD INSURANCE RATE MAPS (F.I.R.M.) OF CHATHAM COUNTY, GEORGIA AND INCORPORATED AREAS, MAP NUMBER 1305100045G, EFFECTIVE DATE AUGUST 16, 2018.

ALL IRON PINS ARE 1/2" REBAR CAPPED WITH "GUNNIN LSF 1033" UNLESS OTHERWISE NOTED.

ABOVE GROUND UTILITY LOCATIONS WERE OBTAINED FROM FIELD OBSERVATIONS. UNDERGROUND UTILITIES WERE NOT LOCATED AS PART OF THIS SURVEY. THE INFORMATION SHOWN ON THIS DRAWING CONCERNING UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE OWNER, ARCHITECT, CONTRACTOR AND THEIR AGENTS ARE RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO THE ACTUAL SIZE, TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES ON THE PROJECT. THE CONTRACTOR SHALL HIRE AN INDEPENDENT UTILITY LOCATING COMPANY TO LOCATE ALL UTILITIES PRIOR TO THE START OF WORK.

THE SURVEY AND PLAT SHOWN HEREON IS NOT INTENDED FOR USE OR RELIANCE BY ANY PARTIES OR ENTITIES NOT SPECIFICALLY LISTED IN THE TITLE. UNAUTHORIZED THIRD PARTIES SHALL INDEMNIFY AND HOLD GUNNIN LAND SURVEYING, LLC HARMLESS AGAINST ANY AND ALL LIABILITY FOR ANY LOSS ARISING OUT OF, OR RELATED TO, RELIANCE BY ANY THIRD PARTY ON ANY WORK PERFORMED THEREUNDER, OR THE CONTENTS OF THE SURVEY.

SITE INCLUDES THE FOLLOWING PARCELS:

- 120 GULFSTREAM ROAD
GARDEN CITY, GEORGIA 31408
PARCEL ID: 7-0193-01-001
- 120 GULFSTREAM ROAD
GARDEN CITY, GEORGIA 31408
PARCEL ID: 7-0194-01-001B
- GULFSTREAM ROAD
GARDEN CITY, GEORGIA 31408
PARCEL ID: 7-0194-01-001A

CLOSURE STATEMENT

THE FIELD DATA UPON WHICH THIS PLAT IS BASED HAS AN ANGULAR ERROR OF 0 SECONDS PER ANGLE POINT AND A PRECISION RATIO OF 1 IN 33,898. IT HAS BEEN ADJUSTED USING THE LEAST SQUARES METHOD.

THE DATA SHOWN ON THIS PLAT HAS A CLOSURE PRECISION RATIO OF 1 IN 2,722,274.

REFERENCES

1. SURVEY OF PARCEL A, B & C, TRACT 2, OF THE "SAMPSON POTSON HOME PLACE", FOR ROMINE, INC., PREPARED BY STUCKEY LAND SURVEYING, DATED JAN. 23, 1979, RECORDED IN PLAT BOOK CC, PAGE 165, CHATHAM COUNTY, GEORGIA RECORDS.
2. WARRANTY DEED BETWEEN ROMINE, INC. AND SAVANNAH ELECTRIC AND POWER CO., DATED 10 JUNE 1980, RECORDED IN DEED BOOK 114-W, PAGE 690, CHATHAM COUNTY, GEORGIA RECORDS.
3. SURVEY OF SOUTHERN EIGHT ACRES OF PARCEL B TRACT 2 OF THE SAMPSON-DOTSON HOME PLACE, PREPARED BY SAVANNAH ELECTRIC & POWER CO., DATED DEC. 29, 1981, RECORDED JAN 29, 1982 IN PLAT BOOK 3P, PAGE 217.
4. WARRANTY DEED BETWEEN ROMINE, INC. AND SAVANNAH ELECTRIC AND POWER CO., DATED 30 DECEMBER 1981, RECORDED IN DEED BOOK 117-V, PAGE 826, CHATHAM COUNTY, GEORGIA RECORDS.
5. WARRANTY DEED BETWEEN ROMINE, INC. AND SAVANNAH ELECTRIC AND POWER CO., DATED 18 APRIL 1984, RECORDED IN DEED BOOK 123-K PAGE 216, CHATHAM COUNTY, GEORGIA RECORDS.
6. PLANT KRAFT, GRUMMAN ROAD ASH MONOFILL EXISTING CONDITIONS TOPOGRAPHIC MAP, DATED NOVEMBER 1996, LAST REVISED 11-9-98, PREPARED BY GARY H. McWHORTER, GA. REG. ENGINEER NO. 12687.

WRITTEN DESCRIPTION

All that tract or parcel of land lying and being in the 8th G.M. District of Chatham County, Georgia, and being more particularly described as follows:

BEGINNING at a concrete right-of-way monument found and located at the intersection of the northeasterly corner of property now or formerly owned by Williams Brothers Trucking, Inc. (Plat Book 145, Pg. 13-B) with the northwesterly corner of the property described herein, also being located on the southeasterly right-of-way line of Crasagate Road (having a 100' right-of-way width); thence leave said intersection and run northeasterly along said southeasterly right-of-way line along the arc of a curve to the right, an arc distance of 567.15 feet to an iron pin set (1/2" rebar with cap stamped "Gunnin LSF 1033"), said curve having a radius of 5,679.58 feet and being subtended by a chord bearing N69°25'26"E and a chord distance of 566.92 feet; thence leave said southeasterly right-of-way line and run S13°53'26"E a distance of 2,579.55 feet to a concrete monument found; thence run S72°23'30"W a distance of 564.50 feet to an iron pin set (1/2" rebar with cap stamped "Gunnin LSF 1033"); thence run N13°53'06"W a distance of 2,550.15 feet to a right-of-way monument found and the TRUE POINT OF BEGINNING.

TOTAL AREA=
33.222 ACRES

LINE TYPE LEGEND

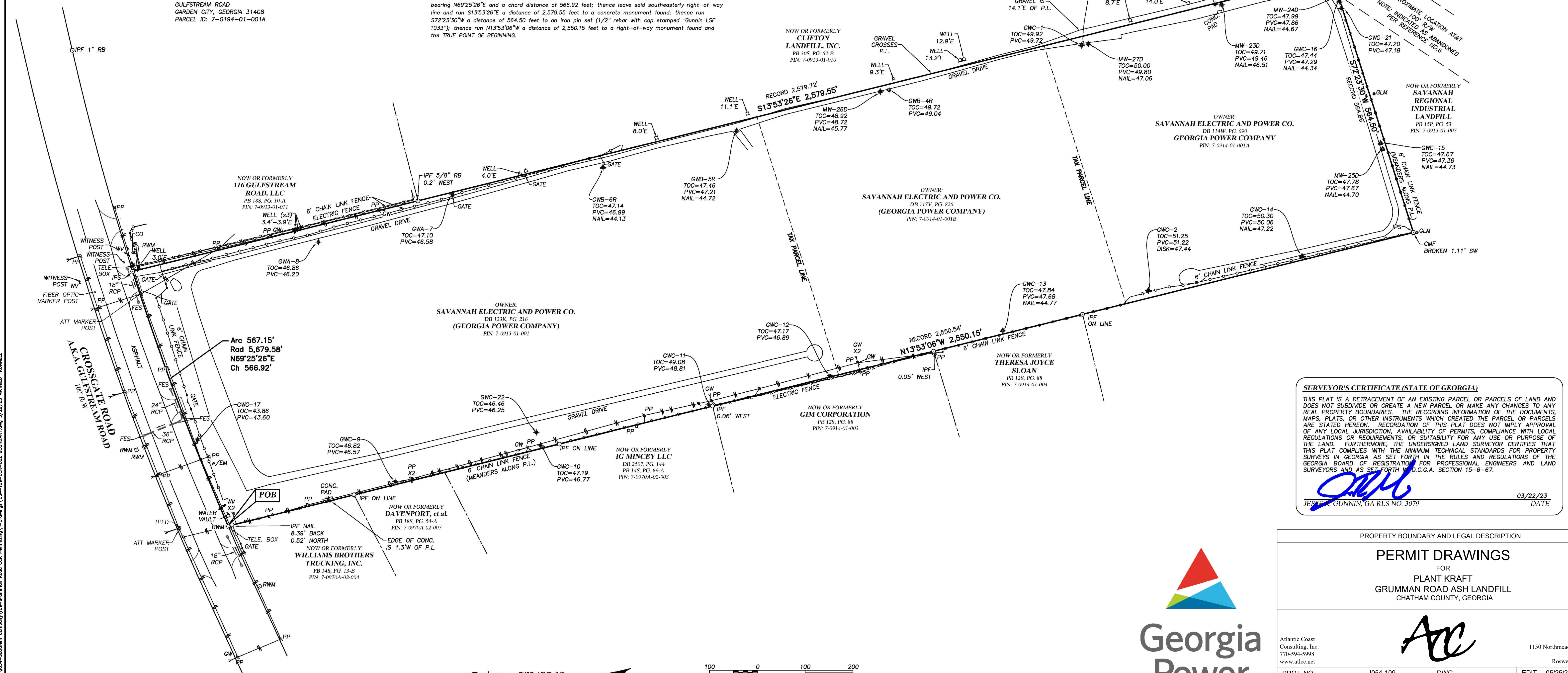
- ADJOINING PROPERTY LINE
- CREEK CENTERLINE
- LAND LOT LINE
- METAL FENCE
- WIRE FENCE
- WOOD FENCE
- GUARDRAIL
- OVERHEAD UTILITY LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND FIBER OPTIC LINE
- UNDERGROUND GAS PIPE
- UNDERGROUND SANITARY SEWER PIPE
- UNDERGROUND STORM SEWER PIPE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER PIPE

SYMBOL LEGEND

- 1/2" REBAR FOUND
- 1/2" REBAR SET
- RIGHT-OF-WAY MONUMENT FOUND
- BENCHMARK
- GUY WIRE AND ANCHOR
- LIGHT POLE
- POWER POLE
- ELECTRIC METER
- TELEPHONE PEDESTAL
- CABLE TV BOX
- GAS METER
- GAS VALVE
- GAS LINE MARKER
- GROUNDWATER MONITORING WELL
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER MANHOLE
- DOUBLE WING CATCH BASIN
- SINGLE WING CATCH BASIN
- JUNCTION BOX
- HEADWALL
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- NAIL
- TOP OF CASING

ABBREVIATIONS

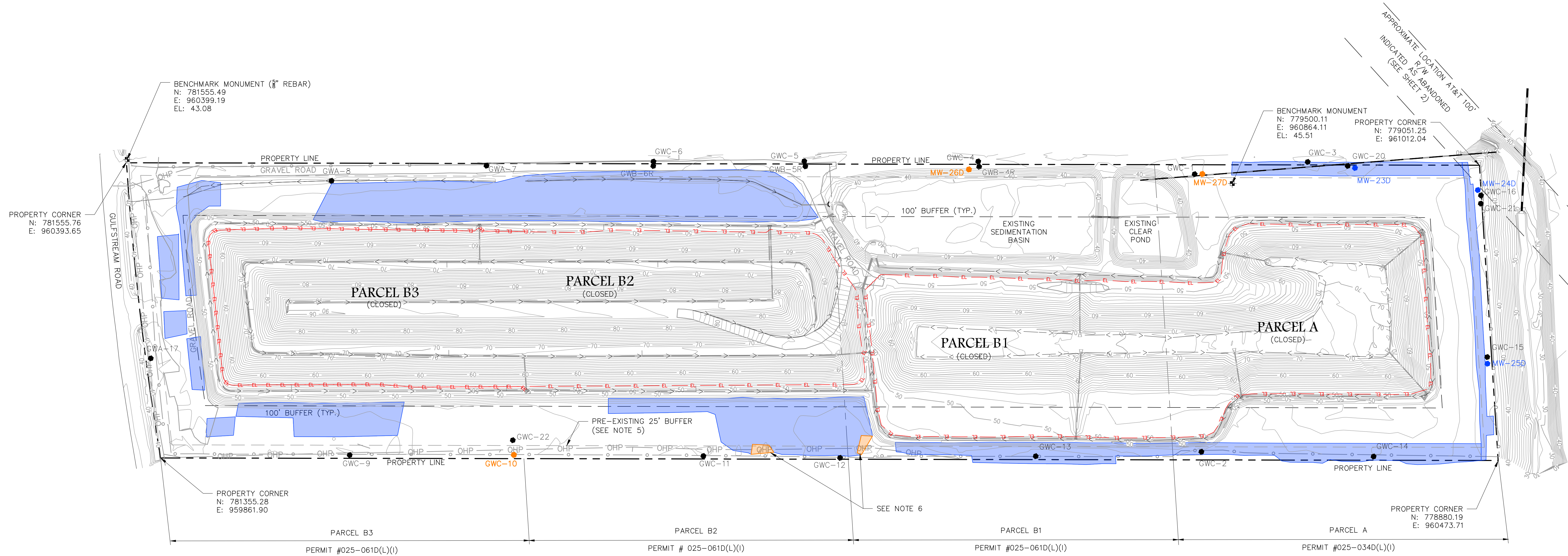
- BC BACK OF CURB
- C&G C&G
- CL CENTERLINE
- CMF CONCRETE MONUMENT FOUND
- COMP CORRUGATED METAL PIPE
- CO CLEAN OUT
- CONC. CONCRETE
- CPP COATED PLASTIC PIPE
- CP CRIMPED TOP PIPE FOUND
- DB DEED BOOK
- DIP DUCTILE IRON PIPE
- DWCB DOUBLE WING CATCH BASIN
- EM ELECTRIC METER
- ES EDGE OF PAVEMENT
- FES FLARED END SECTION
- FH FIRE HYDRANT
- GLM GAS LINE MARKER
- GM GAS METER
- GW GAS VALVE
- GUY WIRE
- GW MONITORING WELL
- HW HEADWALL
- I.E. INVERT ELEVATION
- IPS 1/2" REBAR SET
- IPF 1/2" REBAR FOUND
- LP LIGHT POLE
- OTIP OPEN TOP PIPE FOUND
- PLAT BOOK
- PG. PAGE
- P.L. PROPERTY LINE
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT
- PP POWER POLE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- RB REBAR
- RWM RIGHT-OF-WAY MONUMENT
- R/W RIGHT OF WAY
- SS SANITARY SEWER
- S.S.E. SANITARY SEWER EASEMENT
- SSMH SANITARY SEWER MANHOLE
- SWCB SINGLE WING CATCH BASIN
- TPED TELEPHONE PEDESTAL
- TX TRANSFORMER PAD
- W/CAP WITH CAP
- WM WATER METER
- WV WATER VALVE



SURVEYOR'S CERTIFICATE (STATE OF GEORGIA)
 THIS PLAT IS A RETRACEMENT OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT SUBDIVIDE OR CREATE A NEW PARCEL OR MAKE ANY CHANGES TO ANY REAL PROPERTY BOUNDARIES. THE RECORDING INFORMATION OF THE DOCUMENTS, MAPS, PLATS, OR OTHER INSTRUMENTS WHICH CREATED THE PARCEL OR PARCELS ARE STATED HEREON. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15-6-67.
 JESSIE K. GUNNIN, GA. RLS NO. 3079
 03/22/23
 DATE

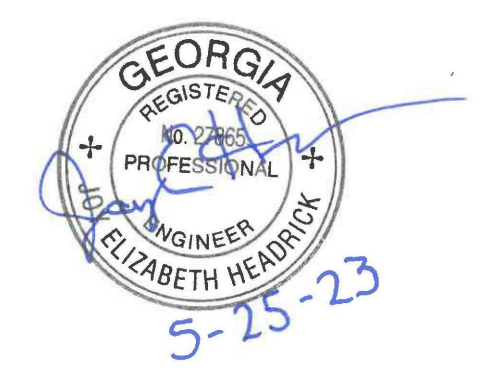
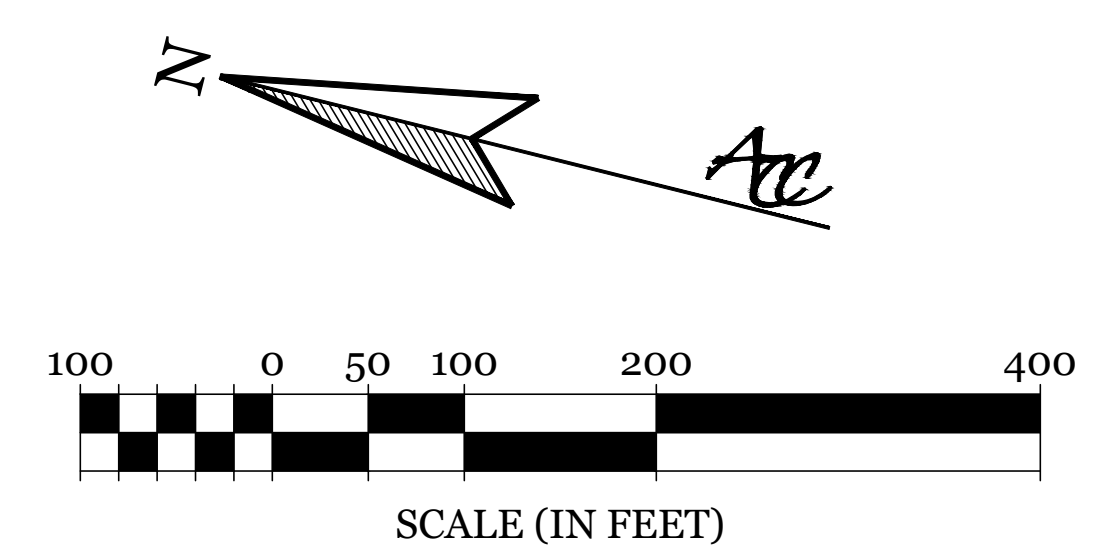
PROPERTY BOUNDARY AND LEGAL DESCRIPTION			
PERMIT DRAWINGS			
FOR PLANT KRAFT GRUMMAN ROAD ASH LANDFILL CHATHAM COUNTY, GEORGIA			
Atlantic Coast Consulting, Inc. 770-594-5998 www.atcc.net 1150 Northmeadow Parkway Suite 100 Roswell, GA 30076			
PROJ. NO.	1054-109	DWG.	EDIT 05/25/2023
SCALE	1" = 100'	SHEET 2 OF 10	
		MAY 2023	

P:\Industry\104-109-COR-002-BOUNDARY\1-Drawings\104-109-COR-002-BOUNDARY.dwg 5/26/23 (MTRHE).TRN



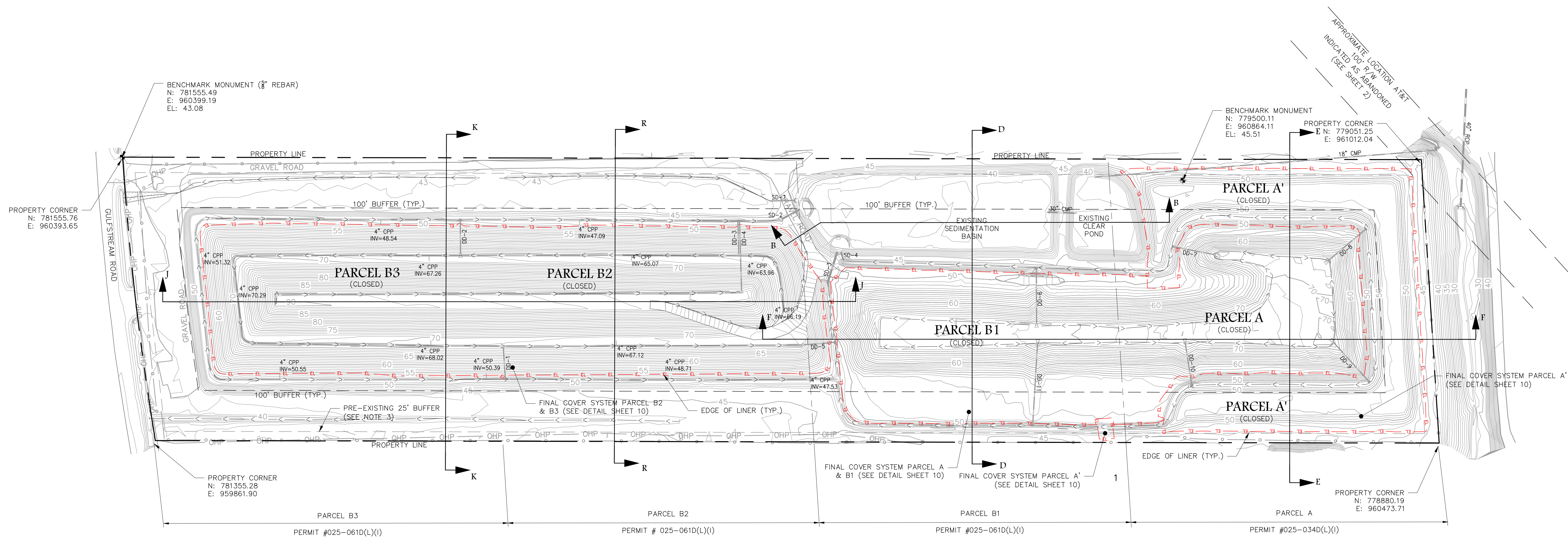
- NOTES:**
- PROPERTY LINE FROM PROPERTY BOUNDARY SURVEY PREPARED BY GUNNIN LAND SURVEYING DATED 03/22/2023.
 - EXISTING TOPOGRAPHY AND SITE CONDITIONS FROM FINAL COVER ASBUILT PLANT KRAFT GRUMMAN ROAD LANDFILL, FIELD SURVEY DATE 10/12/2017 BY MCKIM & CREED.
 - PARCEL A OPERATED UNDER THE SOLID WASTE HANDLING PERMIT NUMBER 025-034D(LI) AND PARCELS B1, B2, AND B3 OPERATED UNDER THE SOLID WASTE HANDLING PERMIT NUMBER 025-061D(LI).
 - CCR/ROOFING MATERIAL REMOVAL LIMITS FROM AS-BUILT DRAWING, CCR REMOVAL MAP PHASE 1&2, PLANT KRAFT GRUMMAN ROAD LANDFILL, DATED 08/29/2019 BY MCKIM & CREED.
 - THE 25' BUFFER ZONE HAS BEEN PREVIOUSLY APPROVED BY THE EPD UNDER THE PRE-EXISTING PERMIT NO. 025-034D(L)(I).
 - AREAS TO BE EXCAVATED AND HAULED OFF SITE TO A PERMITTED FACILITY.

EXISTING	DESCRIPTION
---	PROPERTY LINE
---	PARCEL LINE
---	BUFFER
---	PREVIOUSLY APPROVED 25' BUFFER
---	TREE LINE
---	PROMINENT CONTOUR
---	INTERMEDIATE CONTOUR
---	GRAVEL ACCESS ROAD
---	STORM DRAIN
---	OHP
---	OVERHEAD POWER LINE
---	FENCE LINE (CHAIN LINK)
---	DETECTION MONITORING WELL
---	PIEZOMETER
---	ASSESSMENT WELL
---	BENCHMARK
---	EDGE OF LINER
---	PERMANENT DITCH MATTING
---	St-OUTLET PROTECTION
---	FLARED END SECTION (F.E.S.)
---	HEADWALL
---	OS-OUTLET STRUCTURE
---	CCR/ROOFING MATERIAL REMOVAL LIMITS
---	CCR/ROOFING MATERIAL REMOVAL LIMITS BENEATH
---	POWER DISTRIBUTION STRUCTURES
---	STORMWATER FLOW DIRECTION



EXISTING CONDITIONS PLAN (2018)			
PERMIT DRAWINGS			
FOR PLANT KRAFT GRUMMAN ROAD ASH LANDFILL CHATHAM COUNTY, GEORGIA			
Atlantic Coast Consulting, Inc. 770-594-5998 www.atcc.net			
1150 Northmeadow Parkway Suite 100 Roswell, GA 30076			
PROJ. NO.	I054-109	DWG.	EDIT 05/25/2023
SCALE	1" = 100'	SHEET 3 OF 10	
MAY 2023			

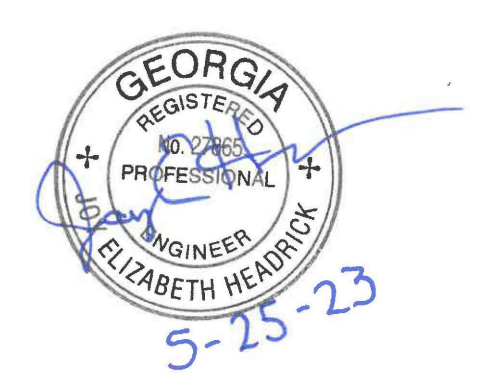
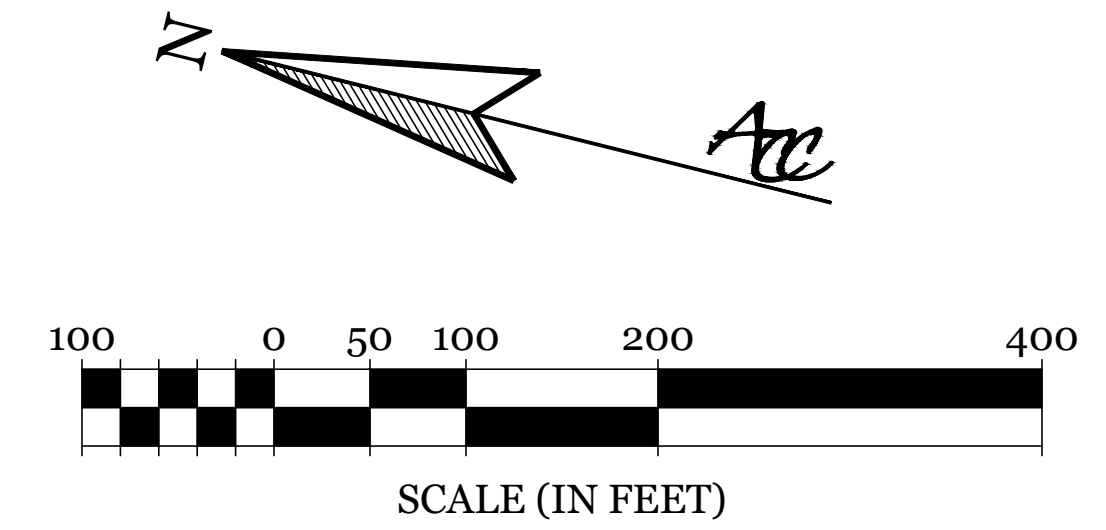
P:\Industry\004-Southern Company\109-Grumman Road CCR Permitting\1-Drawings\004-109-CCR-003-EXISTING.dwg 5/23/23 BETH HEARCK



NOTES:

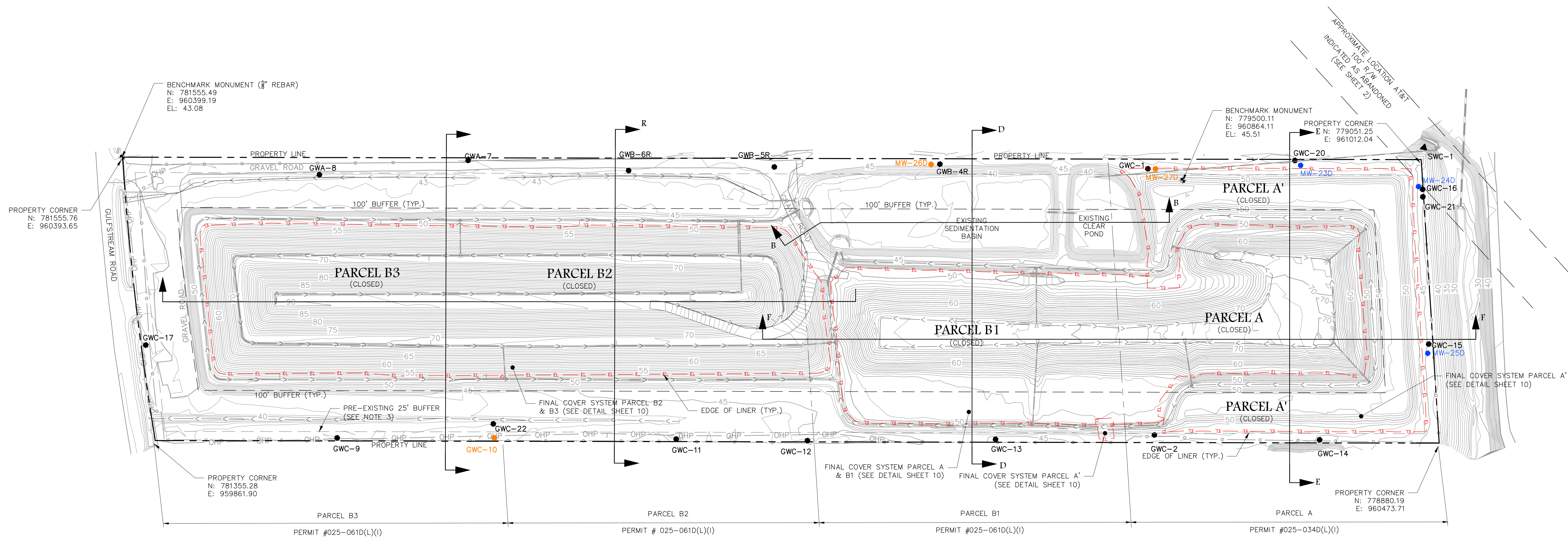
1. PROPERTY LINE FROM PROPERTY BOUNDARY SURVEY PREPARED BY GUNNIN LAND SURVEYING DATED 03/22/2023.
2. EXISTING TOPOGRAPHY AND EDGE OF LINER LIMITS ARE FROM FINAL COVER ASBUILT, PLANT KRAFT GRUMMAN ROAD LANDFILL, DATED 08/28/2019 BY MCKIM & CREED.
3. THE 25' BUFFER ZONE HAS BEEN PREVIOUSLY APPROVED BY THE EPD UNDER THE PRE-EXISTING PERMIT NO. 025-034D(L)(I).

LEGEND	
EXISTING	DESCRIPTION
---	PROPERTY LINE
---	PARCEL LINE
---	BUFFER
---	PREVIOUSLY APPROVED 25' BUFFER
---	TREE LINE
---	PROMINENT CONTOUR
---	INTERMEDIATE CONTOUR
---	GRAVEL ACCESS ROAD
---	STORM DRAIN
---	OVERHEAD POWER LINE
---	FENCE LINE (CHAIN LINK)
+	BENCHMARK
---	EDGE OF LINER
---	PERMANENT DITCH MATTING
---	St-OUTLET PROTECTION
---	FLARED END SECTION (F.E.S.)
---	HEADWALL
---	OS-OUTLET STRUCTURE
---	STORMWATER FLOW DIRECTION
---	CROSS SECTION



FINAL GRADING PLAN			
PERMIT DRAWINGS			
FOR			
PLANT KRAFT			
GRUMMAN ROAD ASH LANDFILL			
CHATHAM COUNTY, GEORGIA			
Atlantic Coast Consulting, Inc. 770-594-5998 www.atcc.net			
1150 Northmeadow Parkway Suite 100 Roswell, GA 30076			
PROJ. NO.	I054-109	DWG.	EDIT 05/25/2023
SCALE	1" = 100'	SHEET 4 OF 10	
MAY 2023			

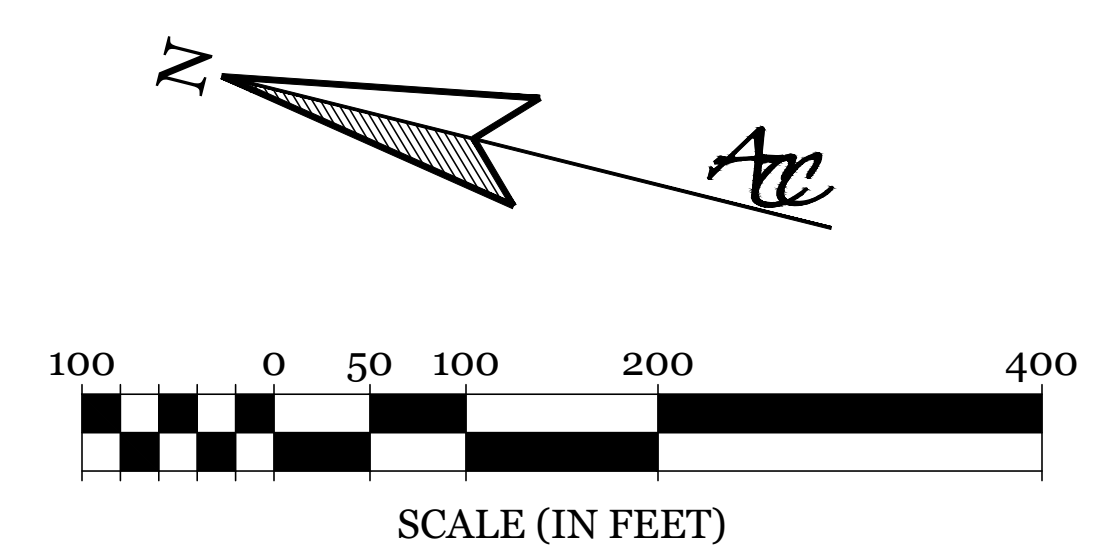
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NOTES:

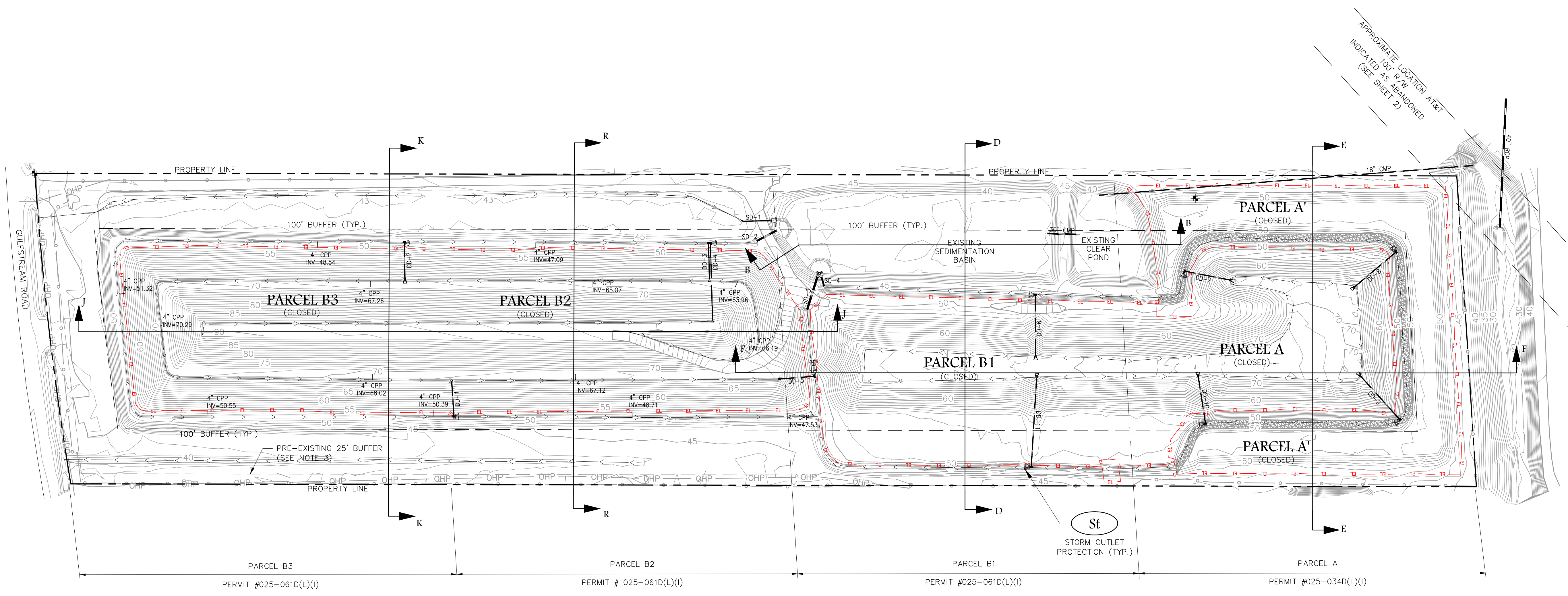
- PROPERTY LINE FROM PROPERTY BOUNDARY SURVEY PREPARED BY GUNNIN LAND SURVEYING DATED 03/22/2023.
- EXISTING TOPOGRAPHY AND EDGE OF LINER LIMITS ARE FROM FINAL COVER ASBUILT, PLANT KRAFT GRUMMAN ROAD LANDFILL, DATED 08/28/2019 BY MCKIM & CREED.
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EXISTING	DESCRIPTION
---	PROPERTY LINE
---	PARCEL LINE
---	BUFFER
---	PREVIOUSLY APPROVED 25' BUFFER
---	TREE LINE
10	PROMINENT CONTOUR
2	INTERMEDIATE CONTOUR
---	GRAVEL ACCESS ROAD
---	STORM DRAIN
---	OVERHEAD POWER LINE
---	FENCE LINE (CHAIN LINK)
●	DETECTION MONITORING WELL
●	PIEZOMETER
▲	SURFACE WATER MONITORING POINT
●	ASSESSMENT WELL
+	BENCHMARK
---	EDGE OF LINER
---	PERMANENT DITCH MATTING
---	ST-OUTLET PROTECTION
---	FLARED END SECTION (F.E.S.)
---	HEADWALL
---	OS-OUTLET STRUCTURE
---	STORMWATER FLOW DIRECTION
---	CROSS SECTION



COMPLIANCE MONITORING NETWORK			
PERMIT DRAWINGS			
FOR			
PLANT KRAFT			
GRUMMAN ROAD ASH LANDFILL			
CHATHAM COUNTY, GEORGIA			
PROJ. NO.	I054-109	DWG.	EDIT 05/25/2023
SCALE	1" = 100'	SHEET 5 OF 10	
MAY 2023			

P:\Industry\04-Southern Company\109-Grumman Road CDF Permitting\1-Drawings\04-109-CDR-006 EDP.dwg 5/25/23 MATHEU TRUNNELL



STORMDRAIN	PIPE DIAMETER (IN)	LENGTH (FT)	INVERT ELEVATION (UP)	INVERT ELEVATION (DOWN)	PIPE MATERIAL
SD-1	18	49.55	42.46	41.58	CPP
SD-2	36	39.94	43.05	40.42	CMP
SD-3	42	61.14	44.32	42.32	CMP
SD-4	30	17.10	42.87	42.32	CMP

STORMDRAIN TABLE
N.T.S.

DOWN DRAIN	PIPE DIAMETER (IN)	LENGTH (FT)	INVERT ELEVATION (UP)	INVERT ELEVATION (DOWN)	PIPE MATERIAL	DOWN DRAIN	PIPE DIAMETER (IN)	LENGTH (FT)	INVERT ELEVATION (UP)	INVERT ELEVATION (DOWN)	PIPE MATERIAL
DD-1	18	62.35	67.49	49.45, 49.47	HDPE	DD-7	18	83.81	66.64	46.09, 46.10	HDPE
DD-2	18	67.38	66.46	47.23, 47.33	HDPE	DD-8	18	98.31	68.36	45.63, 45.65	HDPE
DD-3	18	65.45	63.70	44.59	HDPE	DD-9	18	106.99	69.11	46.97, 47.10	HDPE
DD-4	18	139.12	82.71	44.47	HDPE	DD-10	18	86.61	72.29	47.53, 47.64	HDPE
DD-5	18	61.71	65.87	46.90, 46.94	HDPE	DD-11	18	161.46	68.80	47.56, 47.58	HDPE
DD-6	18	110.44	69.24	43.70, 43.79	HDPE						

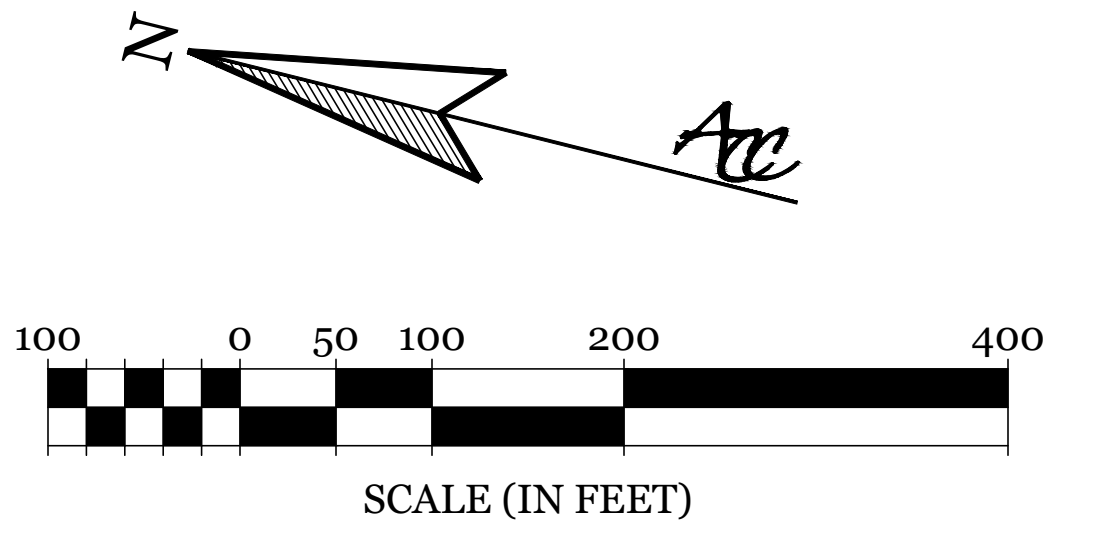
DOWN DRAIN TABLE
N.T.S.

LEGEND

EXISTING	DESCRIPTION
---	PROPERTY LINE
---	PARCEL LINE
---	BUFFER
---	PREVIOUSLY APPROVED 25' BUFFER
~	TREE LINE
—10—	PROMINENT CONTOUR
—2—	INTERMEDIATE CONTOUR
---	GRAVEL ACCESS ROAD
---	STORM DRAIN
—OHP—	OVERHEAD POWER LINE
—	FENCE LINE (CHAIN LINK)
+	BENCHMARK
—EL—	EDGE OF LINER
---	PERMANENT DITCH MATTING
St	St—OUTLET PROTECTION
---	FLARED END SECTION (F.E.S.)
---	HEADWALL
OS	OS—OUTLET STRUCTURE
---	STORMWATER FLOW DIRECTION
---	CROSS SECTION

NOTES:

- PROPERTY LINE FROM PROPERTY BOUNDARY SURVEY PREPARED BY GUNNIN LAND SURVEYING DATED 03/22/2023.
- EXISTING TOPOGRAPHY AND EDGE OF LINER LIMITS ARE FROM FINAL COVER ASBUILT, PLANT KRAFT GRUMMAN ROAD LANDFILL, DATED 08/28/2019 BY MCKIM & CREED.
- THE 25' BUFFER ZONE HAS BEEN PREVIOUSLY APPROVED BY THE EPD UNDER THE PRE-EXISTING PERMIT NO. 025-034D(L)(I).



EROSION, SEDIMENTATION & STORMWATER CONTROL PLAN

PERMIT DRAWINGS
FOR
PLANT KRAFT
GRUMMAN ROAD ASH LANDFILL
CHATHAM COUNTY, GEORGIA

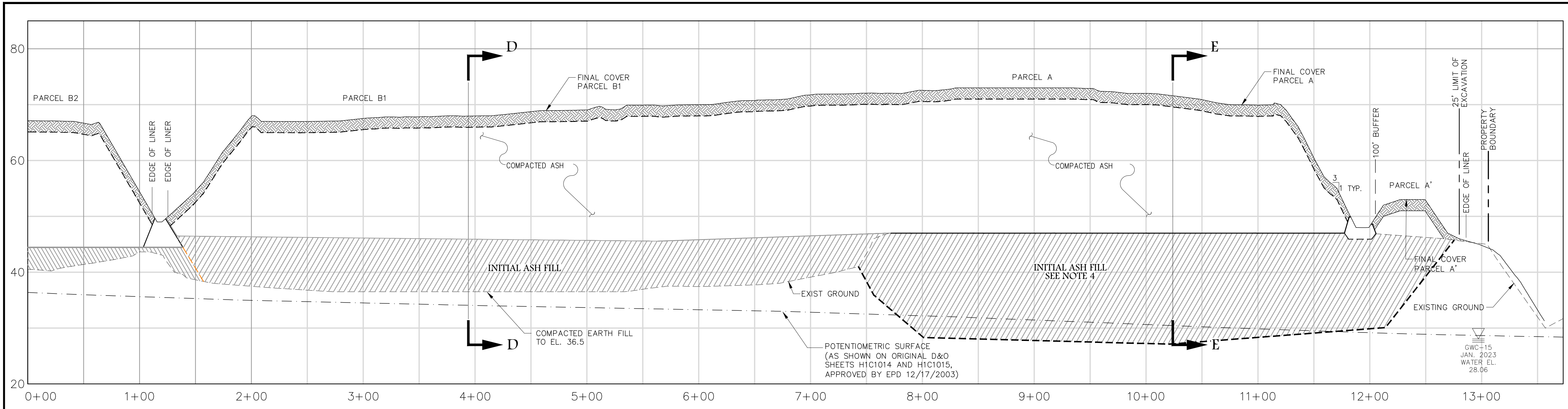
Atlantic Coast Consulting, Inc.
770-594-5998
www.atccc.net

1150 Northmeadow Parkway
Suite 100
Roswell, GA 30076

PROJ. NO.	I054-109	DWG.	EDIT	05/25/2023
SCALE	1" = 100'	MAY 2023		

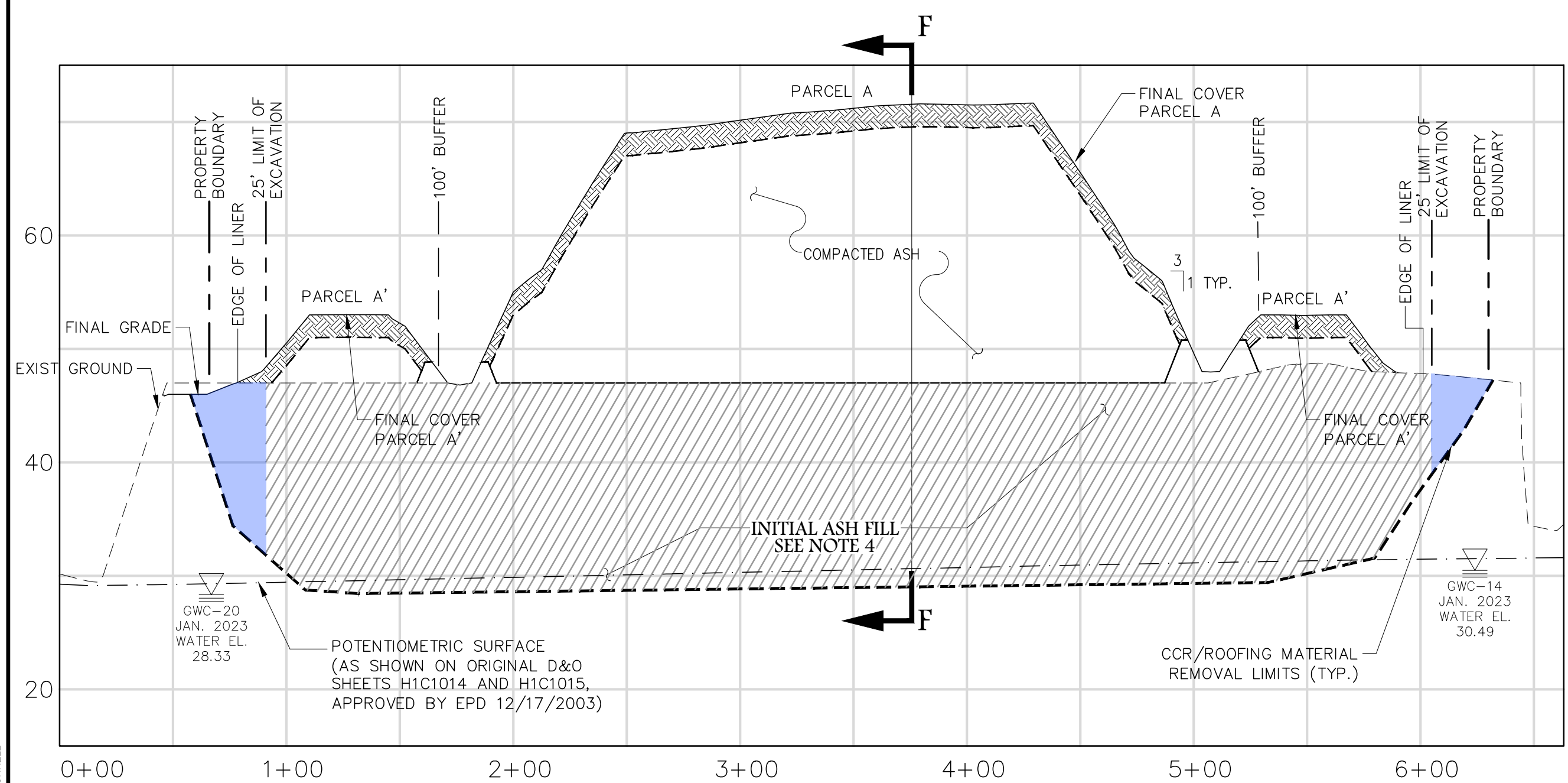
SHEET 6 OF 10

F:\india\india\04-Southern Company\109-Grumman Road CDR Permitting\1-Drawings\04-109-CDR-06 ESWCP.dwg 5/26/23 MATHEU TRUNNELL



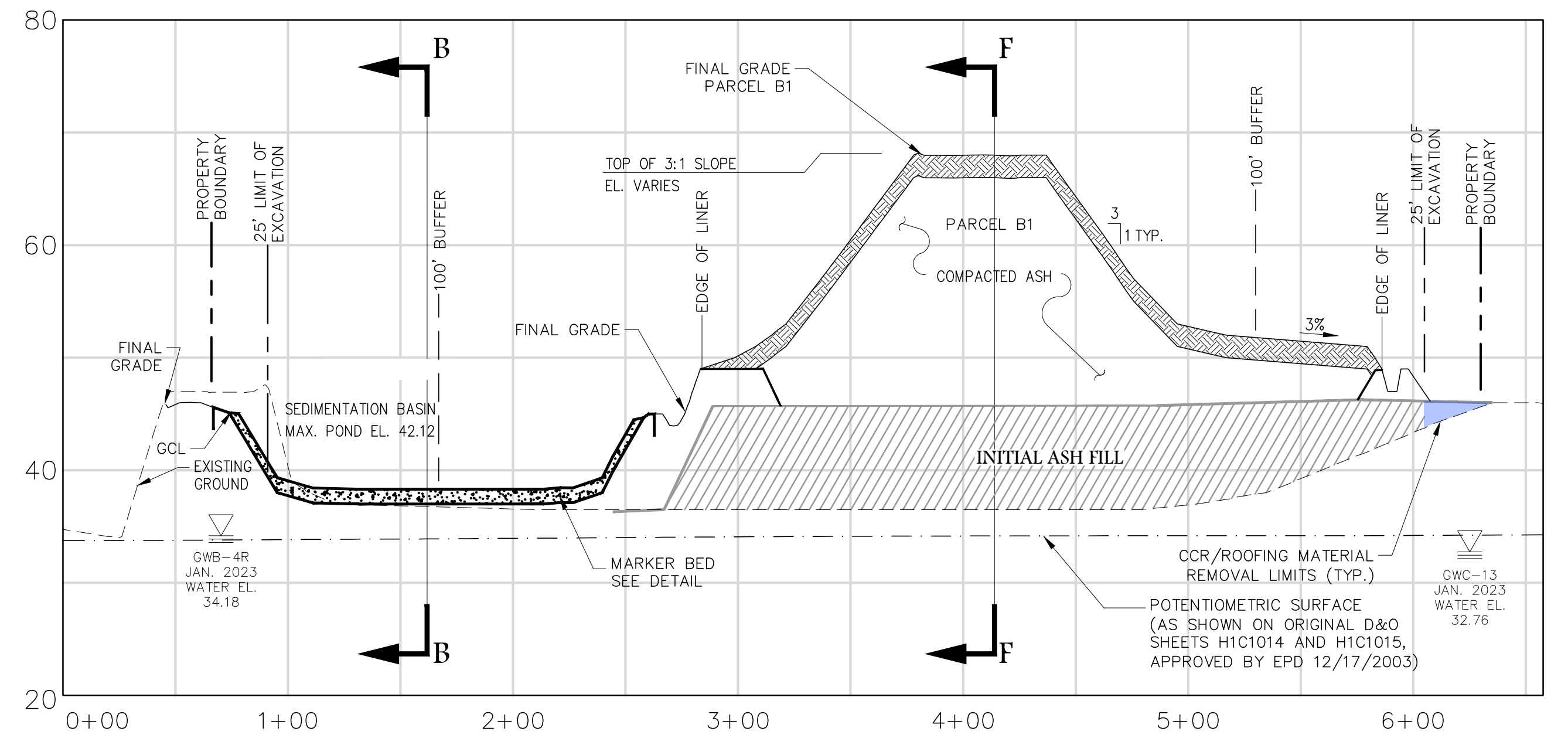
CROSS SECTION F-F

SCALE: H: 1"=50'
V: 1"=50'



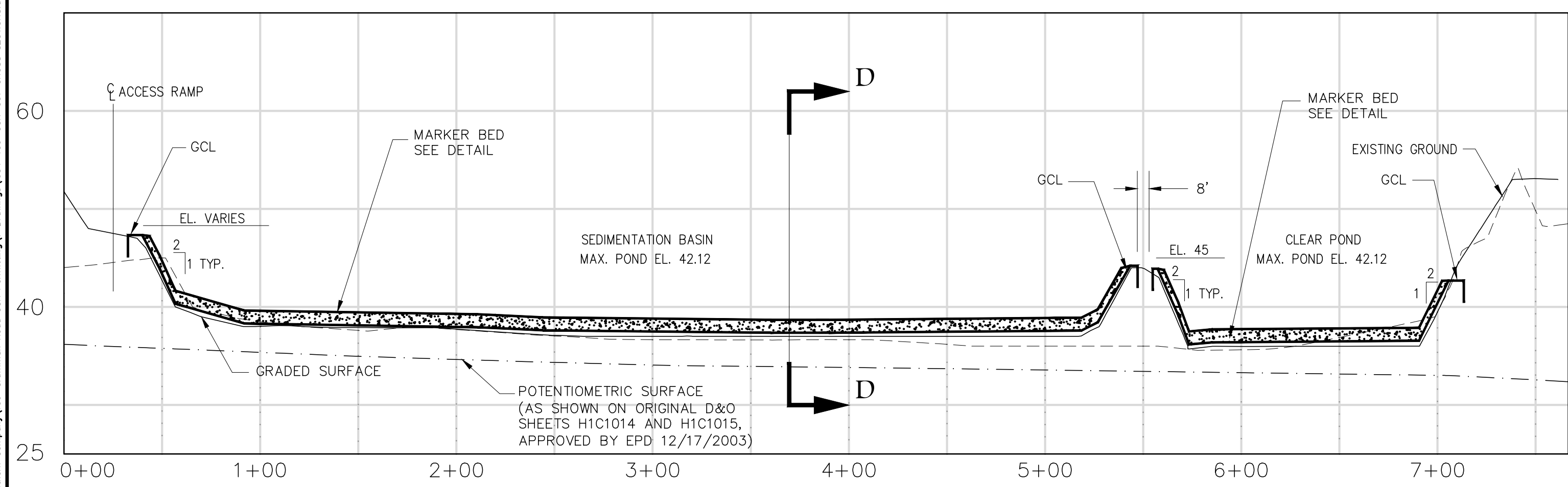
CROSS SECTION E-E

SCALE: H: 1"=50'
V: 1"=50'



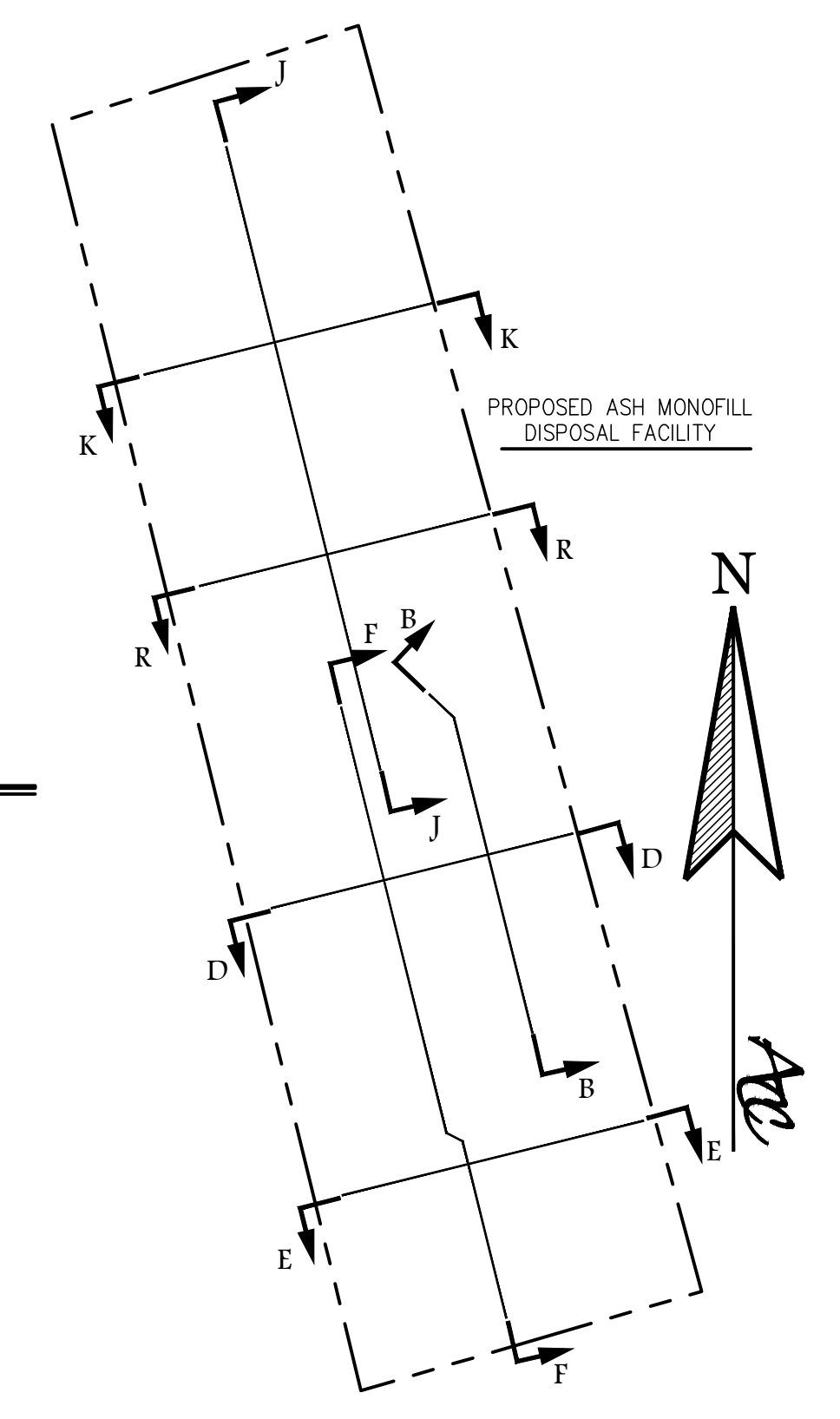
CROSS SECTION D-D

SCALE: H: 1"=50'
V: 1"=50'



CROSS SECTION B-B

SCALE: H: 1"=50'
V: 1"=50'



SECTION KEY:

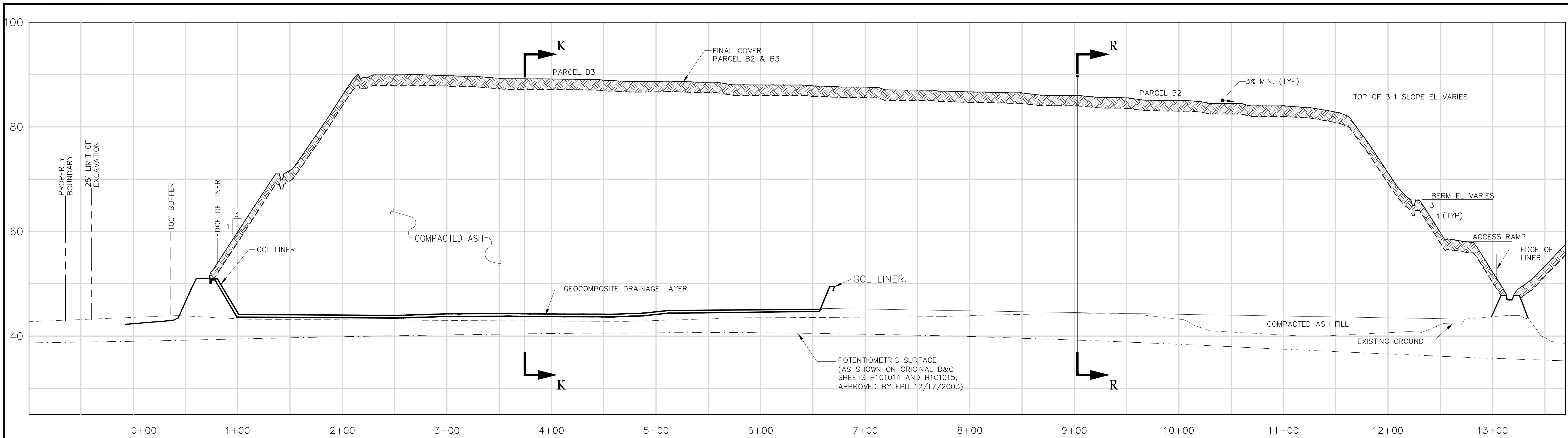
NOTES:

1. ALL CROSS SECTION INFORMATION EXCEPT FOR FINAL COVER AND FINAL GRADE TAKEN FROM THE DESIGN AND OPERATIONS PLAN FOR PLANT KRAFT GRUMMAN ROAD ASH MONOFILL, SOLID WASTE PERMIT #025-061D(L1), APPROVED BY GEORGIA EPD 12/17/2003.
2. TOP OF FINAL COVER, FINAL GRADE, AND EDGE OF LINER LIMITS ARE FROM FINAL COVER ASBUILT, PLANT KRAFT GRUMMAN ROAD LANDFILL, DATED 08/28/2019 BY MCKIM & CREED.
3. APPROXIMATE GROUNDWATER ELEVATION DATA FROM JANUARY 2023 IS PROVIDED WHERE GROUNDWATER MONITORING WELLS ARE ADJACENT TO A CROSS-SECTION TRANSECT, AND IS SHOWN FOR REFERENCE ONLY. WHERE JANUARY 2023 ELEVATIONS ARE SHOWN, THE CORRESPONDING GROUNDWATER WELL IS GENERALLY OFFSET FROM THE CROSS-SECTION TRANSECT, I.E., THE ACTUAL GROUNDWATER ELEVATION ON THE CROSS-SECTION TRANSECT MAY DIFFER THAN THE JANUARY 2023 ELEVATION.
4. THE LIMIT OF INITIAL ASH FILL FOR PARCEL A IS FROM THE ASSESSMENT OF CORRECTIVE MEASURES LANDFILL PARCEL A BY SOUTHERN COMPANY SERVICES DATED FEBRUARY 2013.
5. UNDER PREVIOUS PERMITS (025-034D(L)1 AND 025-061D(L)1), A 25-FT BUFFER ZONE (LIMITS OF EXCAVATION) WAS PROVIDED INSIDE THE PROPERTY LINE. THIS ZONE HAS BEEN MAINTAINED SO THAT NO ASH IS LOCATED WITHIN THAT ZONE. IN PERMITTING DOCUMENTS APPROVED ON JANUARY 12, 2000, A 100-FT BUFFER WAS PROVIDED BETWEEN THE PROPERTY LINE AND THE LATERAL EXTENT OF THE VERTICAL EXPANSION APPROVED AT THAT TIME.



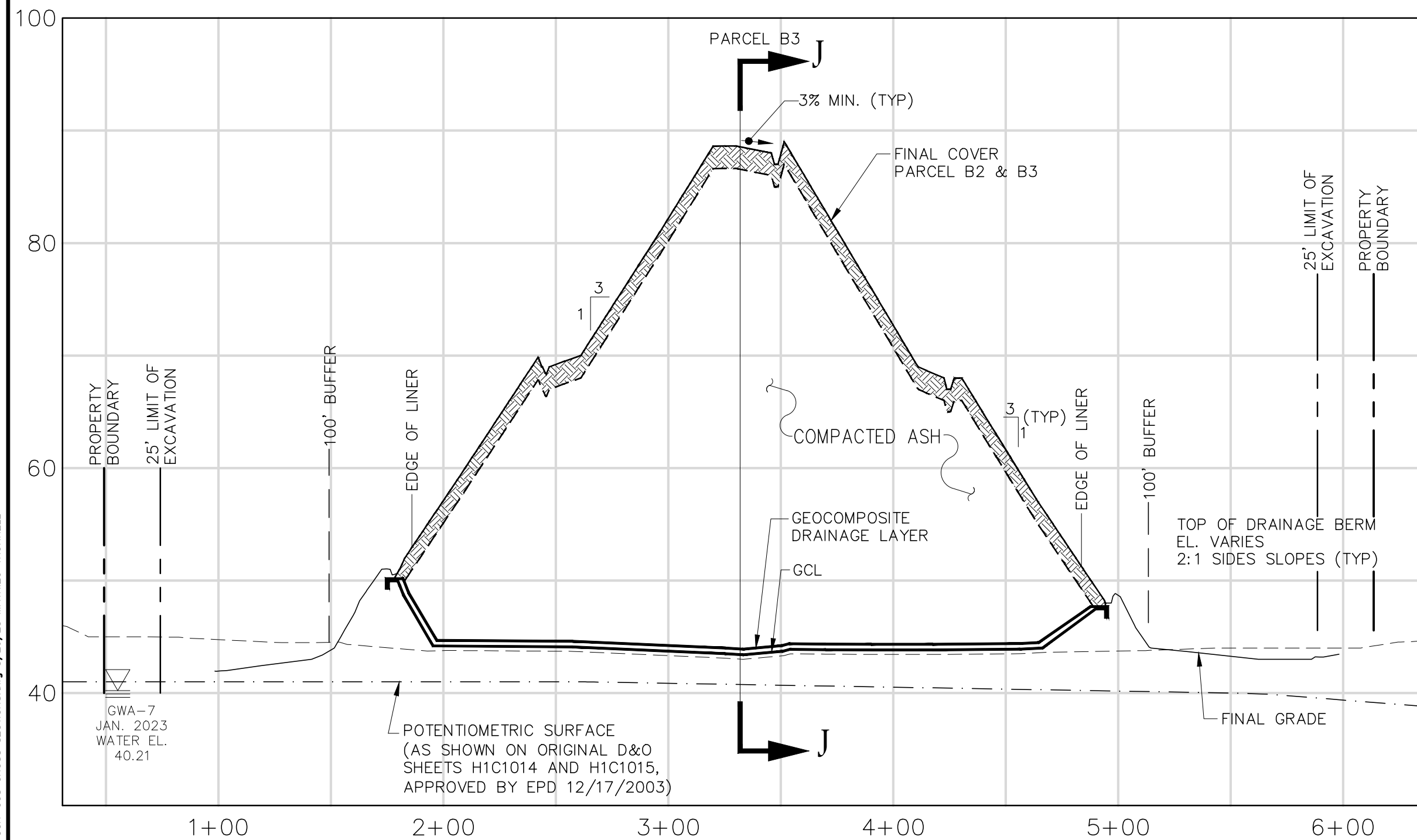
CROSS SECTIONS			
PERMIT DRAWINGS			
FOR			
PLANT KRAFT			
GRUMMAN ROAD ASH LANDFILL			
CHATHAM COUNTY, GEORGIA			
1150 Northmeadow Parkway Suite 100 Roswell, GA 30076			
PROJ. NO.	I054-109	DWG.	EDIT 05/25/2023
SCALE	N/A	SHEET 7 OF 10	
	MAY 2023		

P:\Industry\04-109-Grumman Road CCR Permitting\1-Drawings\04-109-CCR-07 CROSS SECTIONS.dwg 5/25/23 MATHEW TRINELLI



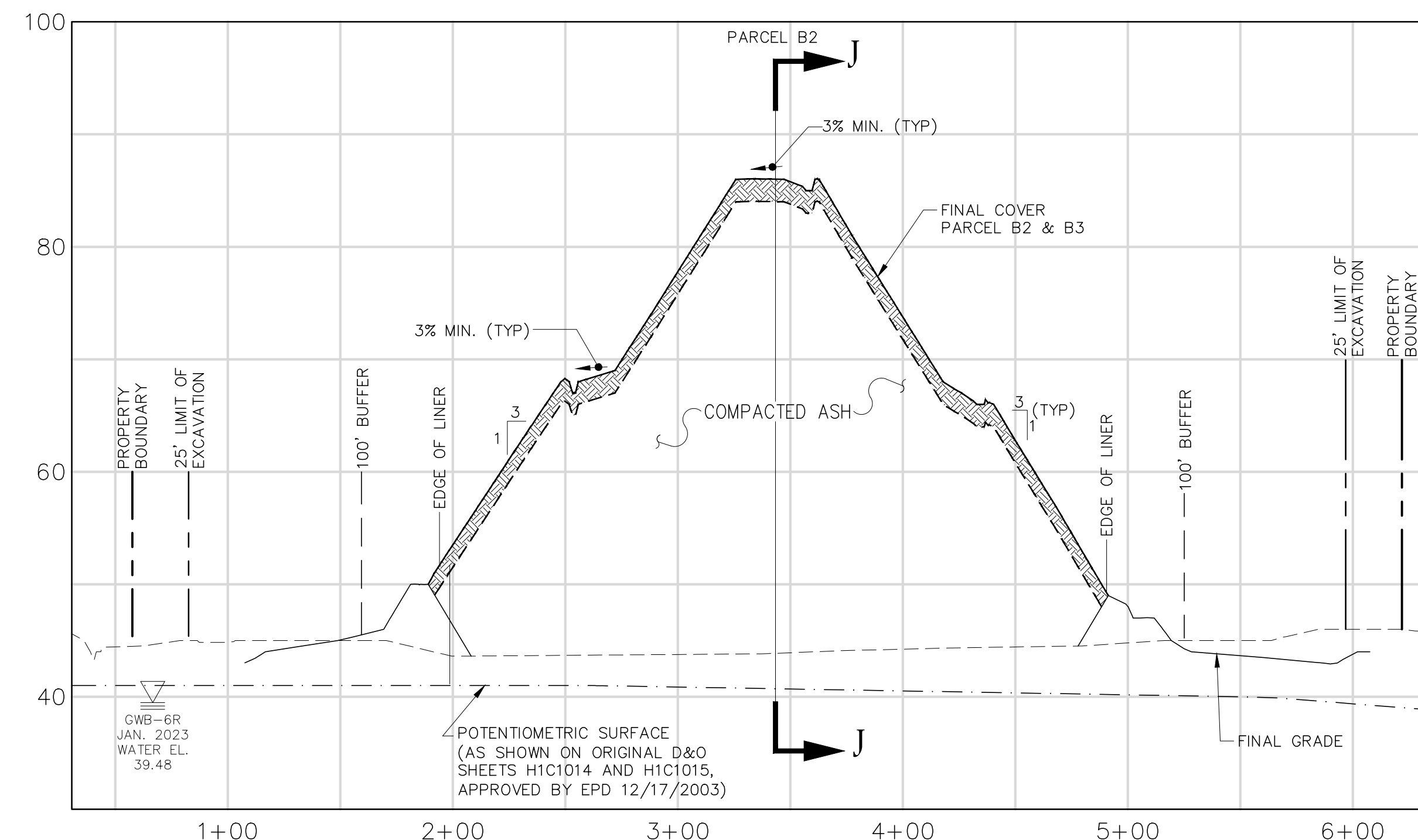
CROSS SECTION J-J

SCALE: H: 1"=50'
V: 1"=50'



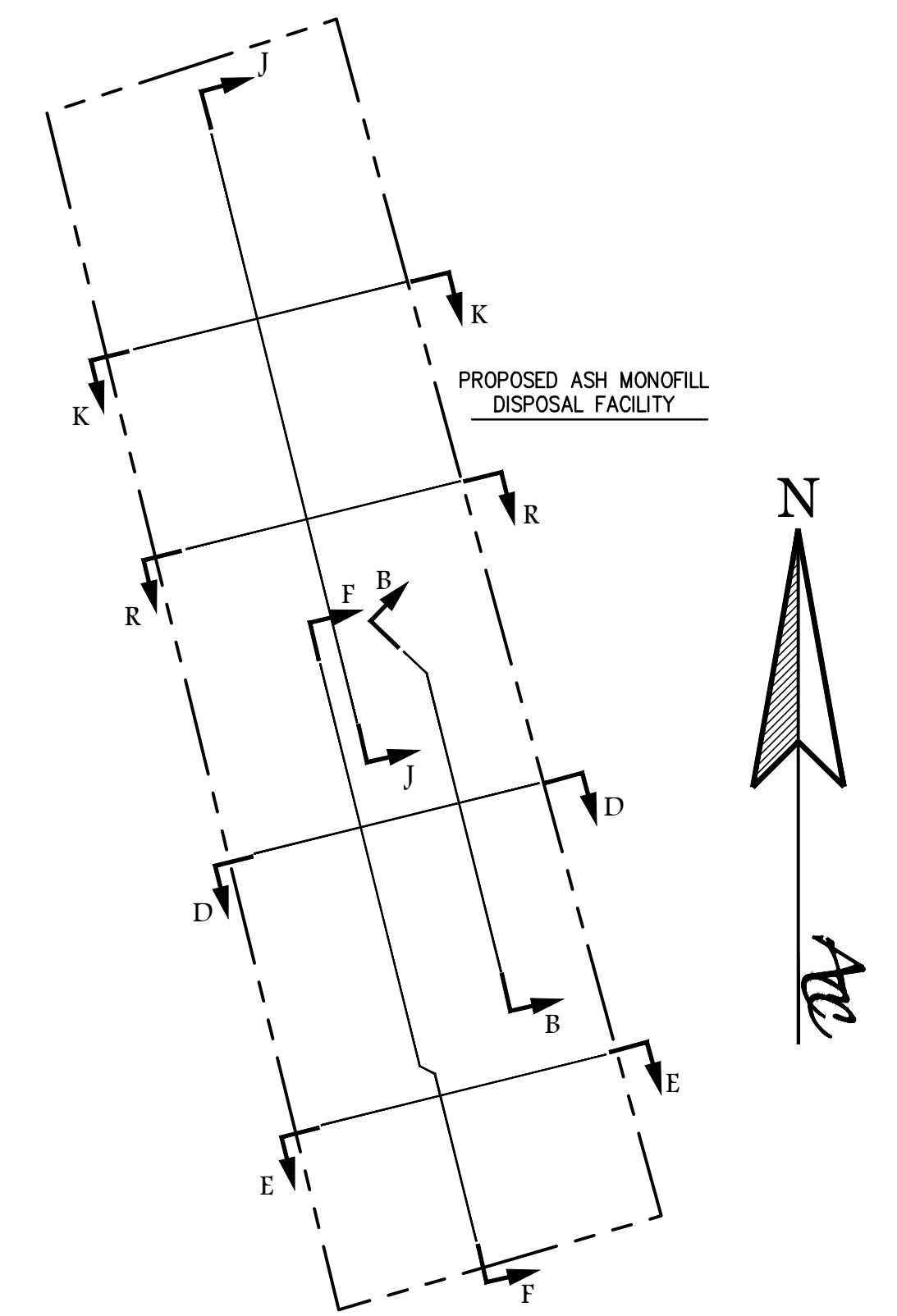
CROSS SECTION K-K

SCALE: H: 1"=50'
V: 1"=50'



CROSS SECTION R-R

SCALE: H: 1"=50'
V: 1"=50'



SECTION KEY

N.T.S.

NOTES:

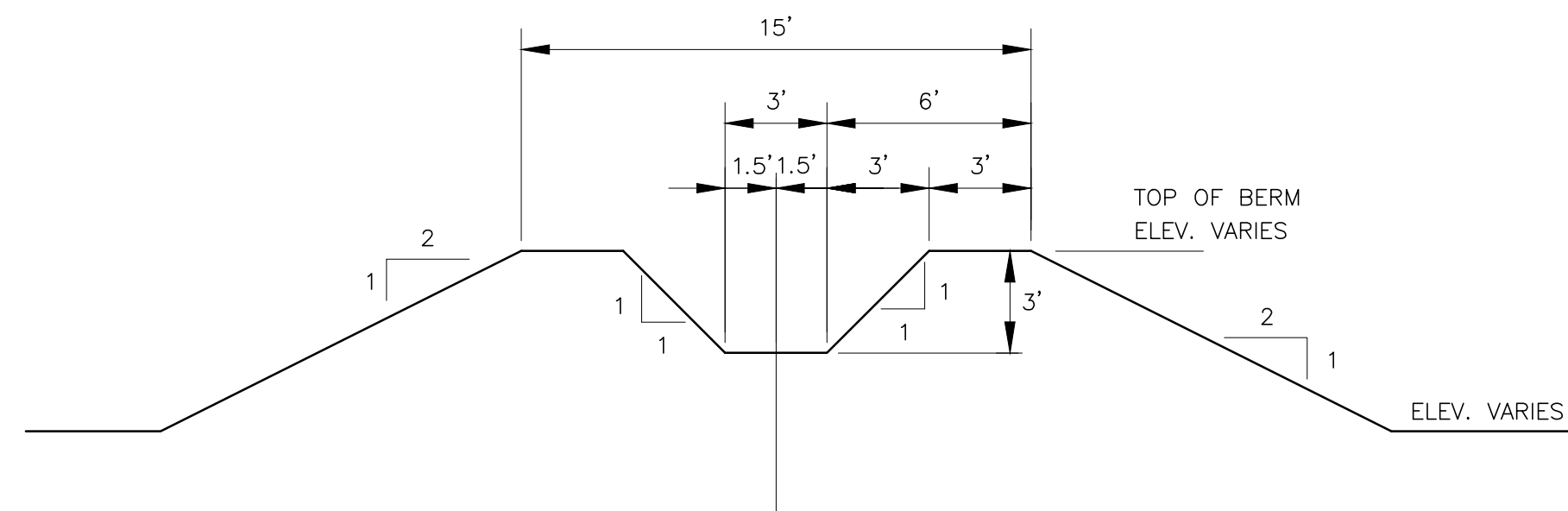
- ALL CROSS SECTION INFORMATION EXCEPT FOR FINAL COVER AND FINAL GRADE TAKEN FROM THE DESIGN AND OPERATIONS PLAN FOR PLANT KRAFT GRUMMAN ROAD ASH MONOFILL, SOLID WASTE PERMIT #025-061D(L), APPROVED BY GEORGIA EPD 12/17/2003.
- TOP OF FINAL COVER, FINAL GRADE, AND EDGE OF LINER LIMITS ARE FROM FINAL COVER ASBUILT, PLANT KRAFT GRUMMAN ROAD LANDFILL, DATED 08/28/2019 BY MCKIM & CREED.
- APPROXIMATE GROUNDWATER ELEVATION DATA FROM JANUARY 2023 IS PROVIDED WHERE GROUNDWATER MONITORING WELLS ARE ADJACENT TO A CROSS-SECTION TRANSECT, AND IS SHOWN FOR REFERENCE ONLY. WHERE JANUARY 2023

- ELEVATIONS ARE SHOWN, THE CORRESPONDING GROUNDWATER WELL IS GENERALLY OFFSET FROM THE CROSS-SECTION TRANSECT, I.E., THE ACTUAL GROUNDWATER ELEVATION ON THE CROSS-SECTION TRANSECT MAY DIFFER THAN THE JANUARY 2023 ELEVATION.
- UNDER PREVIOUS PERMITS (025-034D(L)(I) AND 025-061D(L)(I), A 25-FT BUFFER ZONE (LIMITS OF EXCAVATION) WAS PROVIDED INSIDE THE PROPERTY LINE. THIS ZONE HAS BEEN MAINTAINED SO THAT NO ASH IS LOCATED WITHIN THAT ZONE. IN PERMITTING DOCUMENTS APPROVED ON JANUARY 12, 2000, A 100-FT BUFFER WAS PROVIDED BETWEEN THE PROPERTY LINE AND THE LATERAL EXTENT OF THE VERTICAL EXPANSION APPROVED AT THAT TIME.



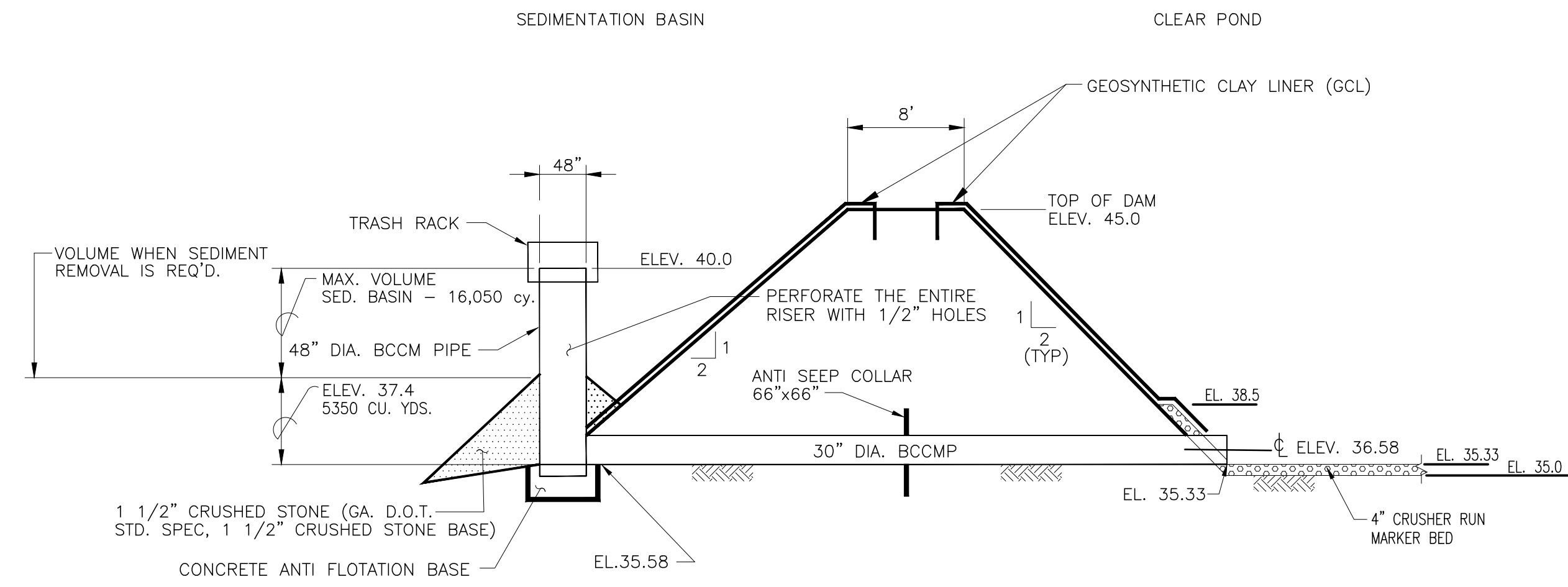
CROSS SECTIONS			
PERMIT DRAWINGS			
FOR			
PLANT KRAFT			
GRUMMAN ROAD ASH LANDFILL			
CHATHAM COUNTY, GEORGIA			
		1150 Northmeadow Parkway Suite 100 Roswell, GA 30076	
PROJ. NO.	I054-109	DWG.	EDIT 05/25/2023
SCALE	N/A	SHEET 8 OF 10	
		MAY 2023	

P:\Industrial\04-Southern Company\109-Grumman Road CDF Permits\1-Drawings\04-109-CDF-008 CROSS SECTIONS.dwg 5/25/23 MATHIEU TRINELLI



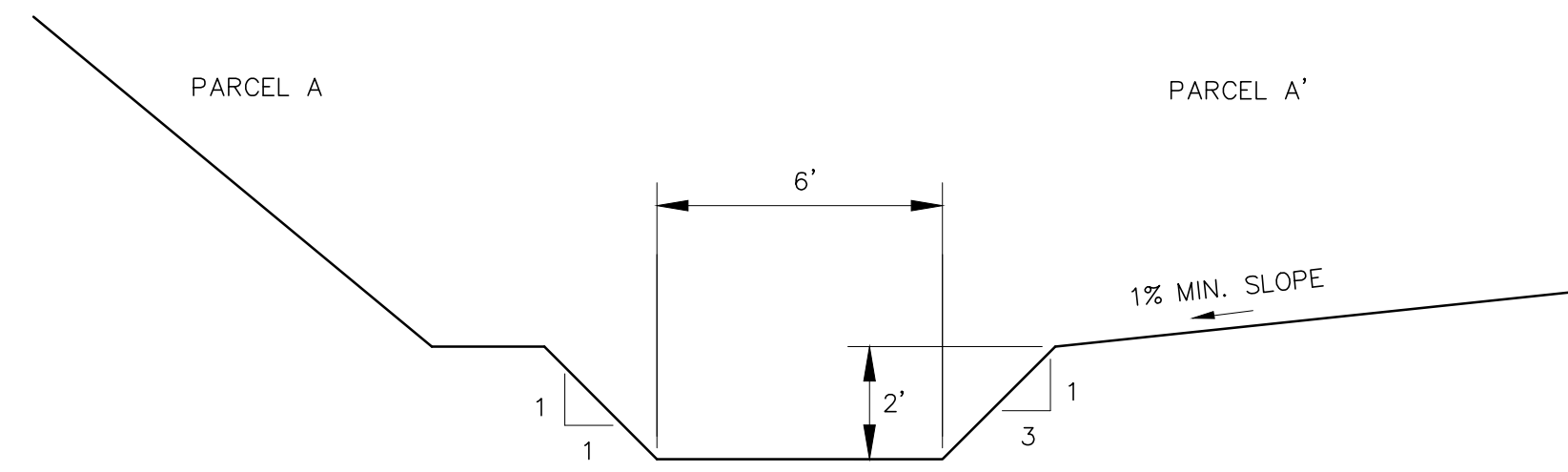
PERIMETER DRAINAGE DITCH TYP. SECTION

N.T.S.



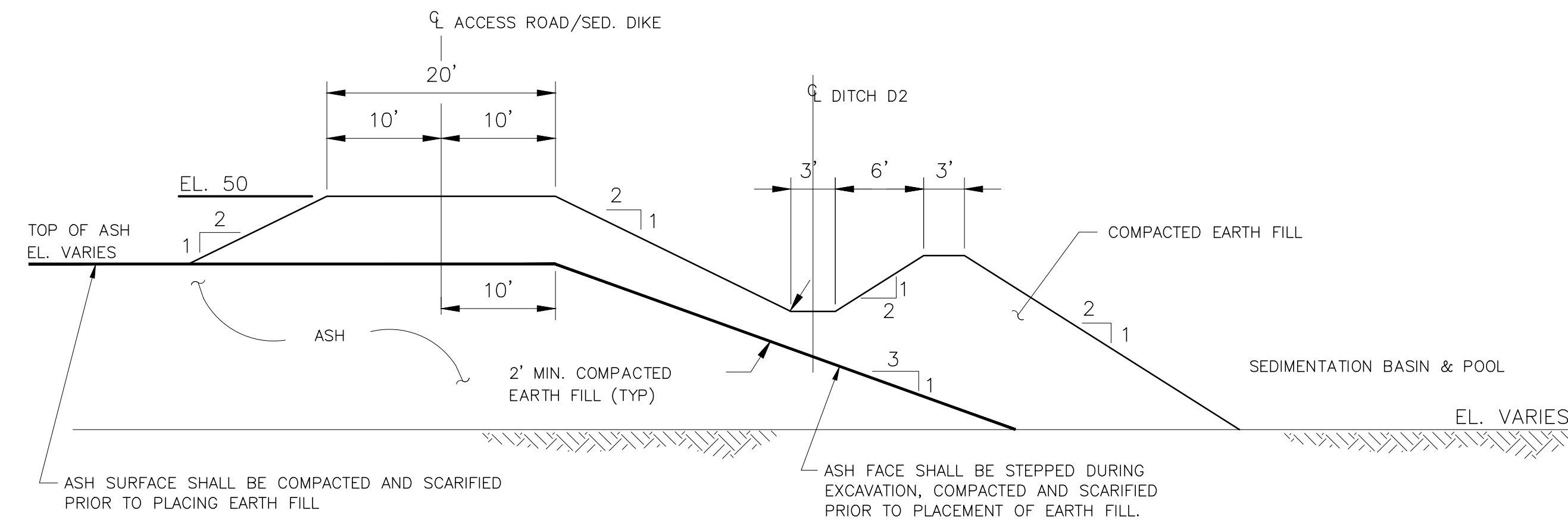
SEDIMENTATION BASIN DETAIL

N.T.S.



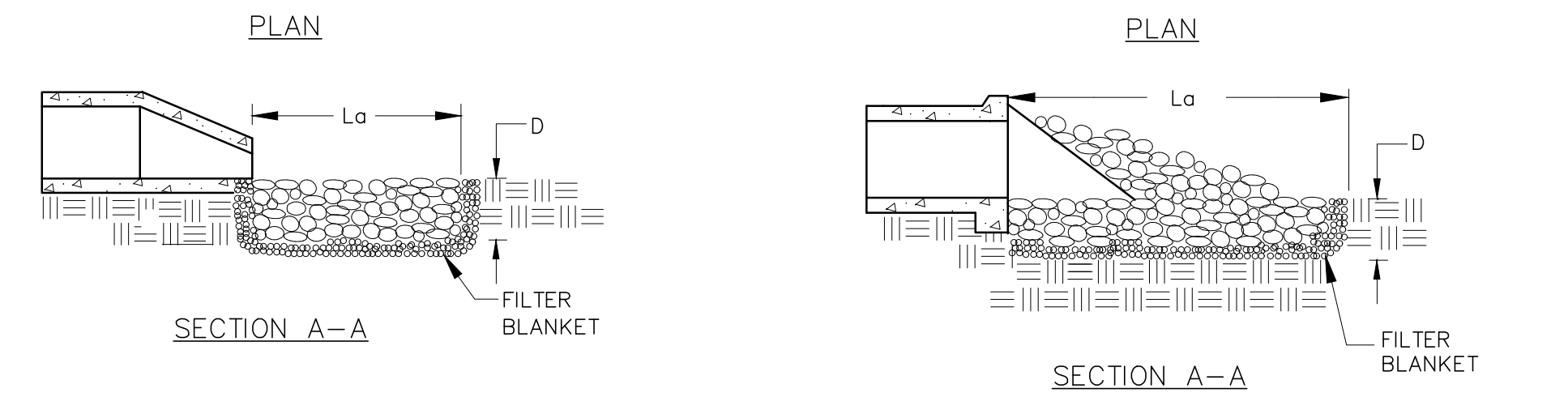
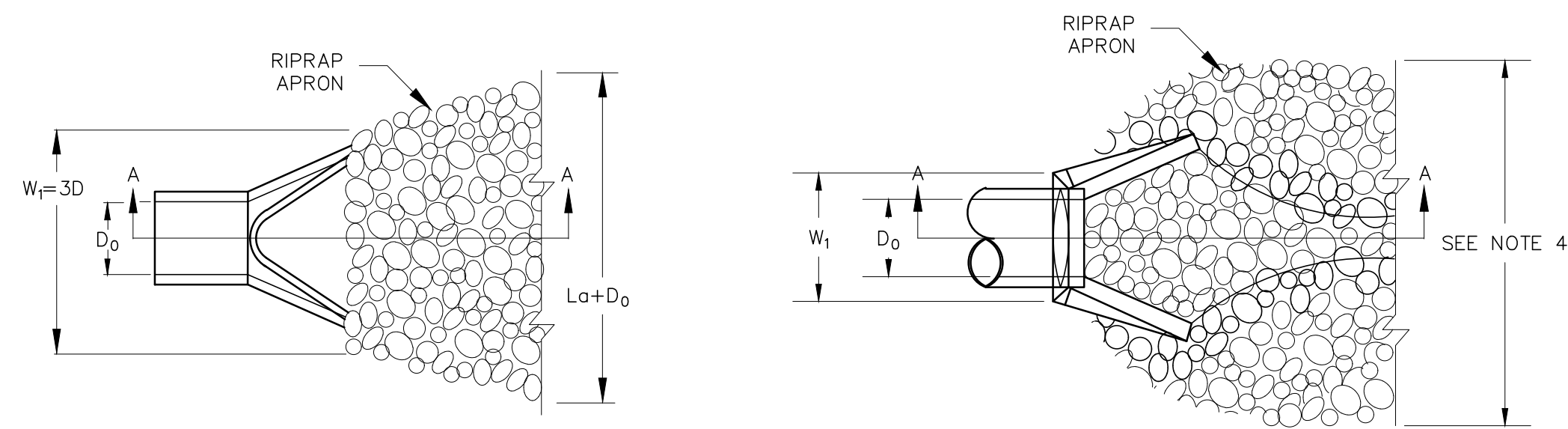
PERIMETER DRAINAGE DITCH TYP. SECTION PARCEL A

N.T.S.



SEDIMENTATION DIKE TYPICAL SECTION

N.T.S.



PIPE OUTLET TO FLAT AREA NO DEFINED CHANNEL

PIPE OUTLET TO WELL DEFINED CHANNEL

NOTES FOR INSTALLING OUTLET PROTECTION IN A FLAT AREA WITH NO DEFINED CHANNEL:

1. L_a IS THE LENGTH OF THE RIP-RAP APRON (SHOWN ON PLANS AT EACH S1)
2. STONE DEPTH $D=1.5$ TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6"
3. d_{50} IS THE AVERAGE STONE DIAMETER.
4. W_1 IS THE WIDTH AT THE HEADWALL (THREE TIMES THE DIAMETER OF THE OUTLET PIPE)
5. W_2 IS THE DOWNSTREAM WIDTH (OUTLET PIPE DIAMETER + L_a)
6. A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIP-RAP AND SOIL FOUNDATION.

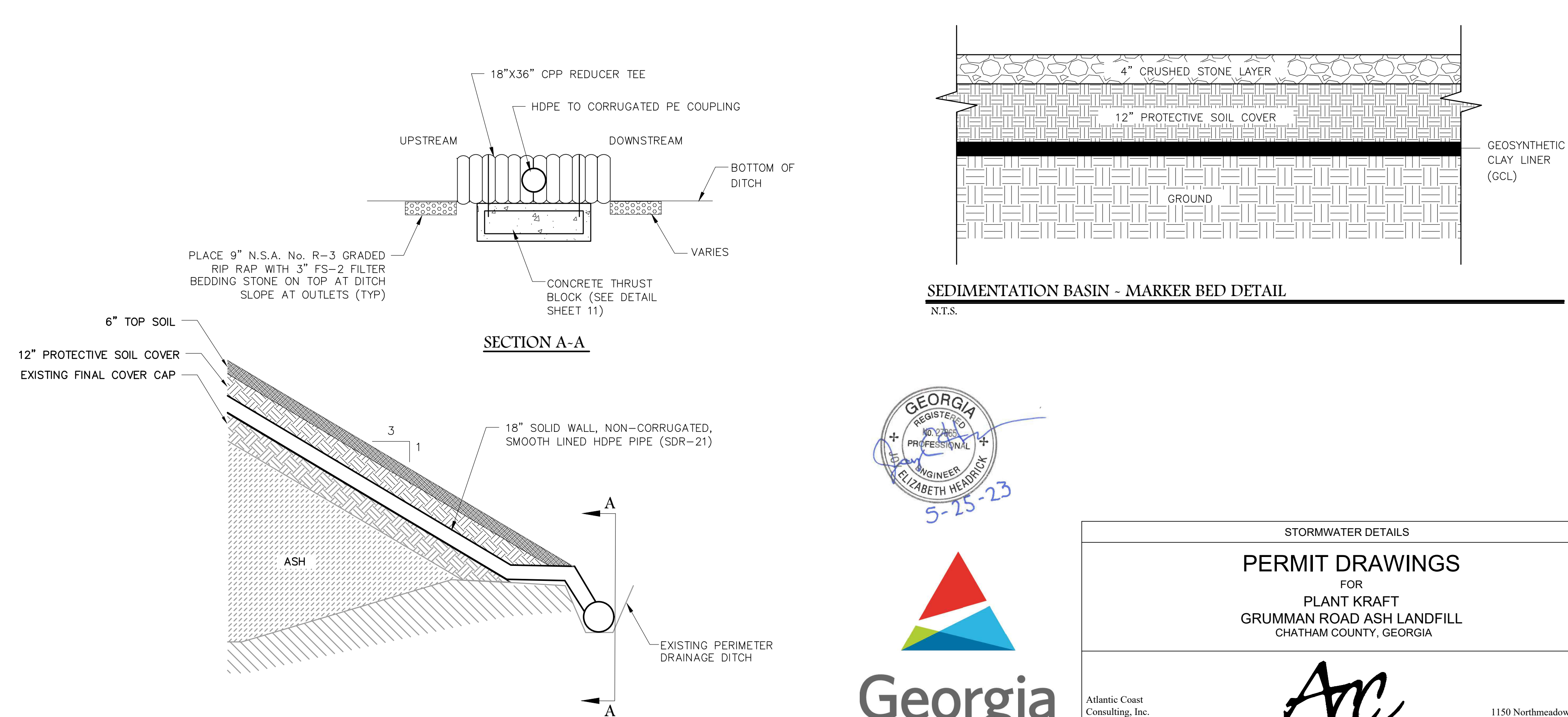
NOTES FOR INSTALLING OUTLET PROTECTION IN A WELL DEFINED CHANNEL:

1. L_a IS THE LENGTH OF THE RIP-RAP APRON (SHOWN ON PLANS AT EACH S1)
2. STONE DEPTH $D=1.5$ TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6"
3. d_{50} IS THE AVERAGE STONE DIAMETER.
4. THE APRON SHALL EXTEND ACROSS THE CHANNEL BOTTOM AND UP THE CHANNEL BANKS TO AN ELEVATION ONE FOOT ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS)
5. W_2 IS THE DOWNSTREAM WIDTH (DEFINED ON THE PLANS @ EACH S1)
6. A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIP-RAP AND SOIL FOUNDATION.

OUTLET PROTECTION

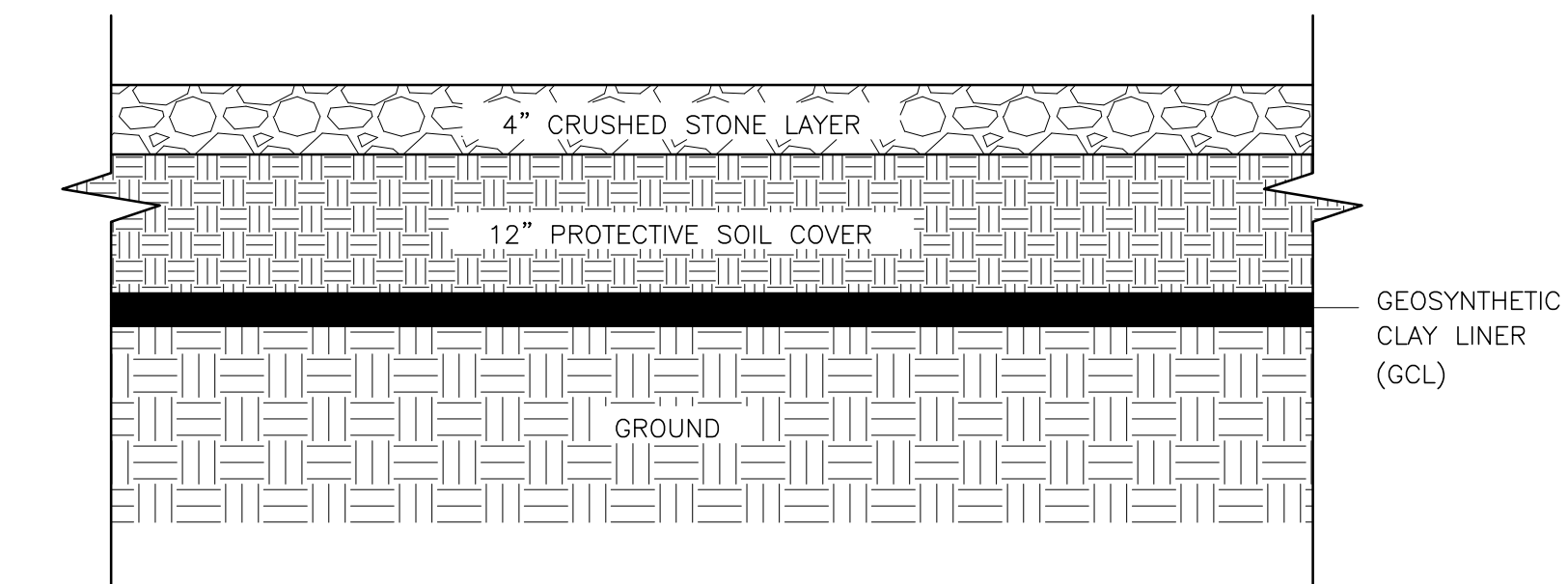
N.T.S.

St1



DOWNDRAIN OUTLET DETAIL ON PARCEL A & B1

N.T.S.

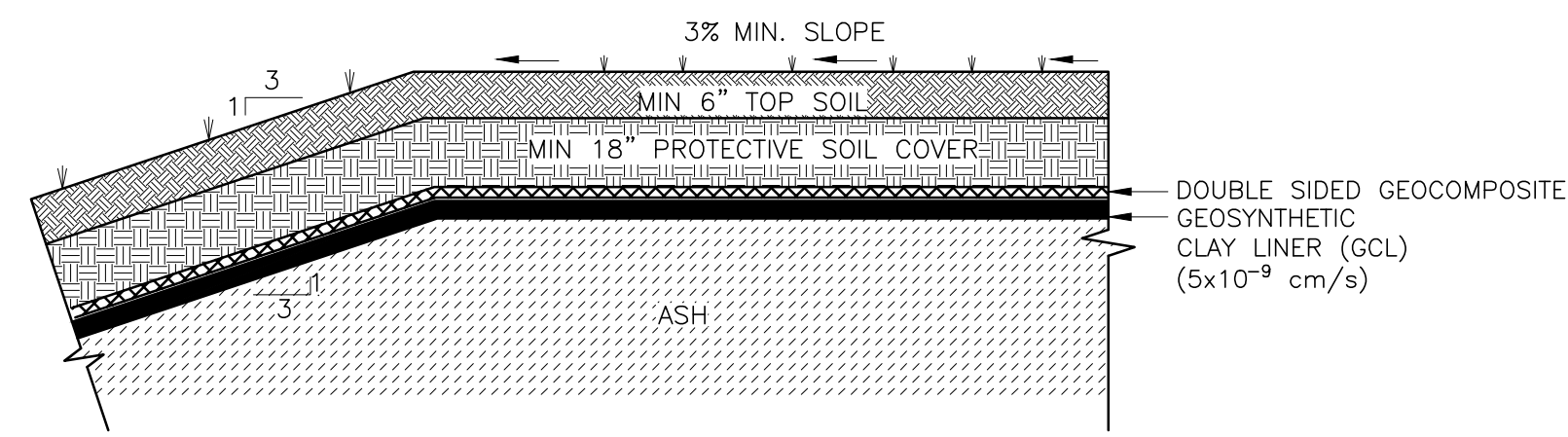


SEDIMENTATION BASIN - MARKER BED DETAIL

N.T.S.



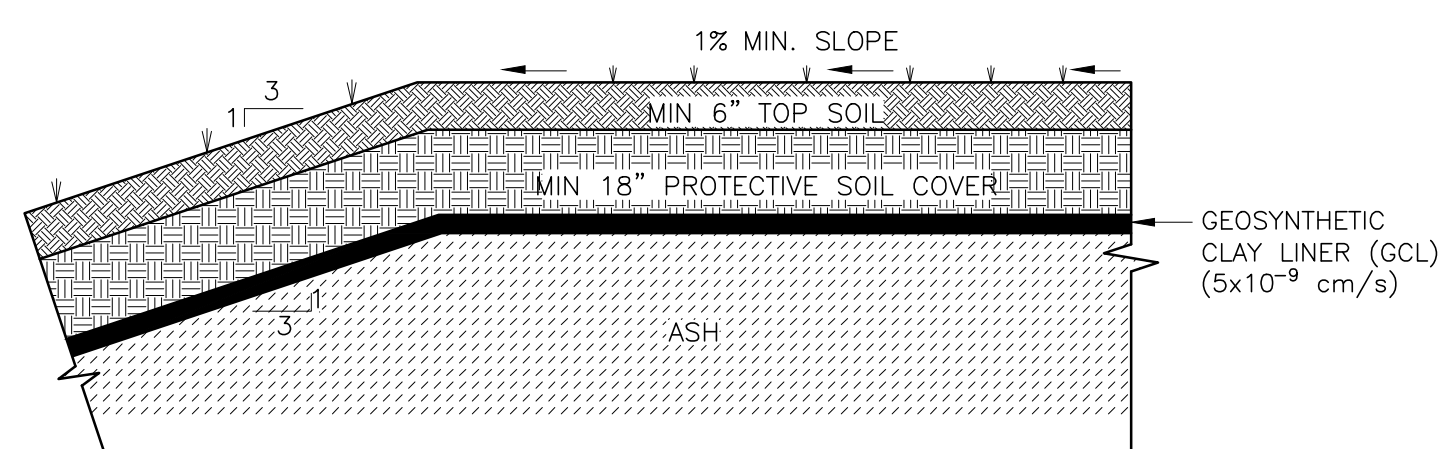
STORMWATER DETAILS			
PERMIT DRAWINGS			
FOR			
PLANT KRAFT			
GRUMMAN ROAD ASH LANDFILL			
CHATHAM COUNTY, GEORGIA			
1150 Northmeadow Parkway Suite 100 Roswell, GA 30076			
PROJ. NO.	I054-109	DWG.	EDIT 05/25/2023
SCALE	N/A	SHEET 9 OF 10	
MAY 2023			



- NOTES:
1. ALL COMPONENTS PLACED AND TESTED IN ACCORDANCE WITH THE DRAWINGS AND TECHNICAL SPECIFICATIONS.
 2. THE TOP SIX INCHES OF THE GENERAL FILL SHALL BE TOP SOIL THAT MUST SUSTAIN VEGETATIVE GROWTH.

FINAL COVER SYSTEM PARCEL A & B1

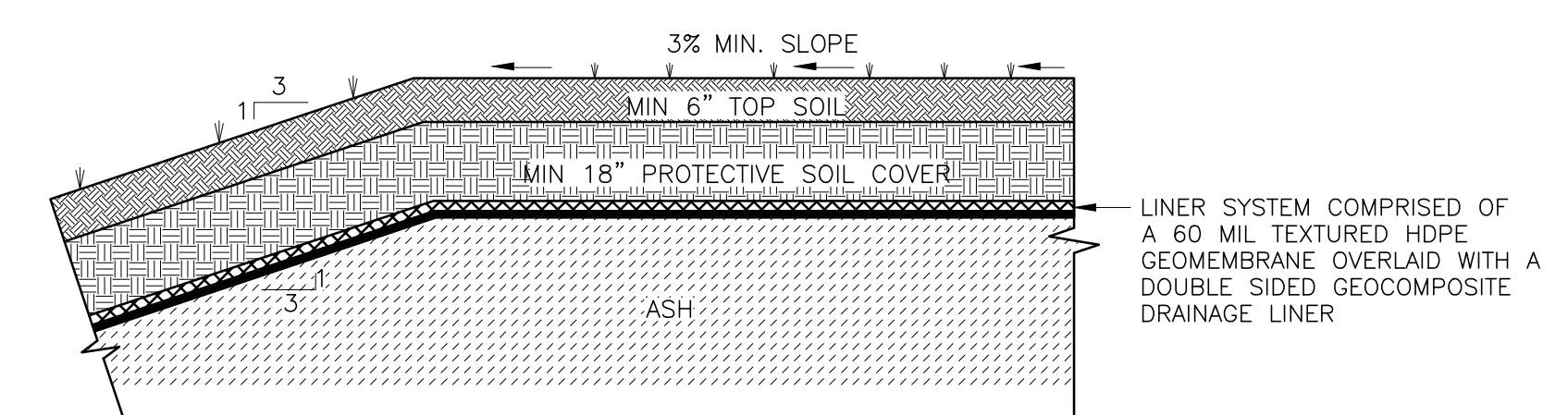
N.T.S.



- NOTES:
1. ALL COMPONENTS PLACED AND TESTED IN ACCORDANCE WITH THE DRAWINGS AND TECHNICAL SPECIFICATIONS.
 2. THE TOP SIX INCHES OF THE GENERAL FILL SHALL BE TOP SOIL THAT MUST SUSTAIN VEGETATIVE GROWTH.

FINAL COVER SYSTEM PARCEL A'

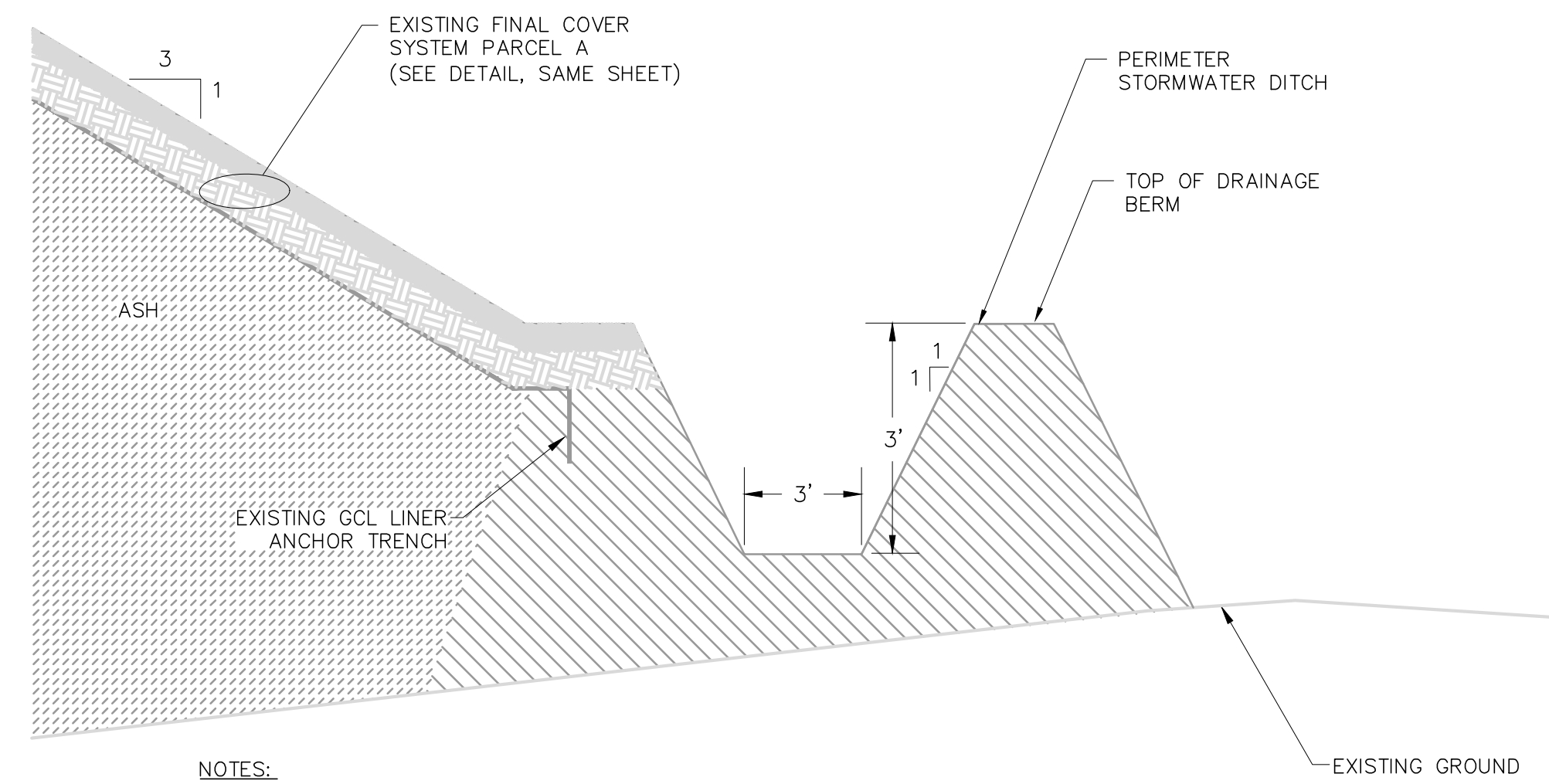
N.T.S.



- NOTES:
1. ALL COMPONENTS PLACED AND TESTED IN ACCORDANCE WITH THE DRAWINGS AND TECHNICAL SPECIFICATIONS.
 2. THE TOP SIX INCHES OF THE GENERAL FILL SHALL BE TOP SOIL THAT MUST SUSTAIN VEGETATIVE GROWTH.

FINAL COVER SYSTEM PARCEL B2 & B3

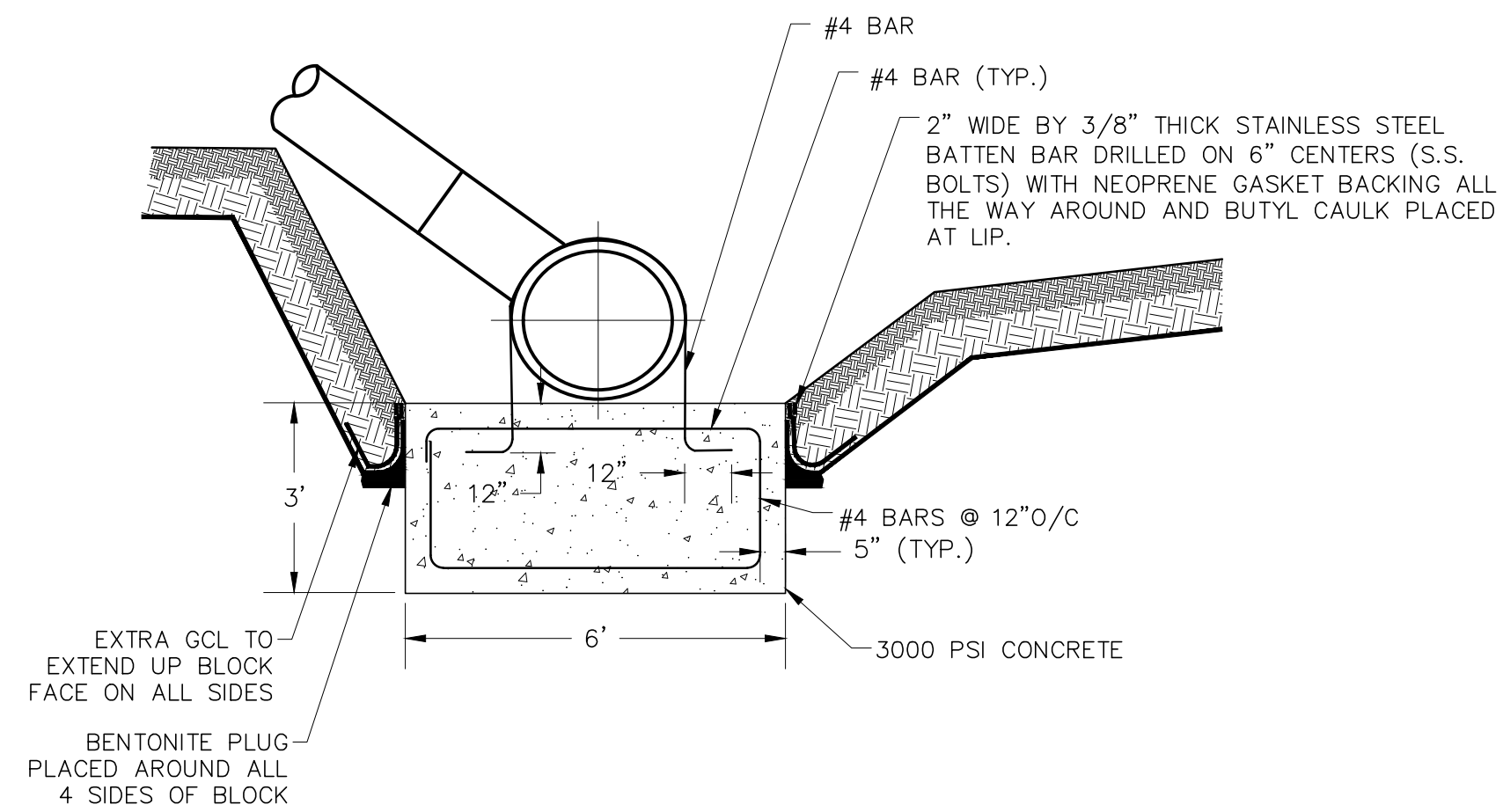
N.T.S.



- NOTES:
1. EXISTING PERIMETER DITCH DIMENSIONS FROM THE D&O PLAN DRAWING NUMBER HIC1017, EPD APPROVED JANUARY 12, 2000.

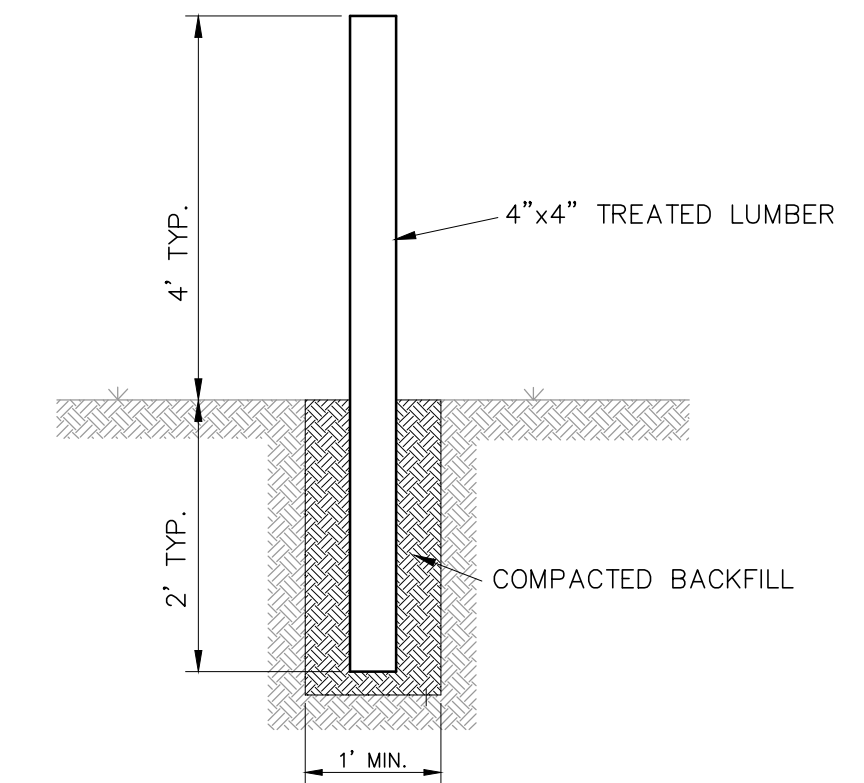
TYPICAL SECTION OF EXISTING FINAL COVER SYSTEM PARCEL A

N.T.S.



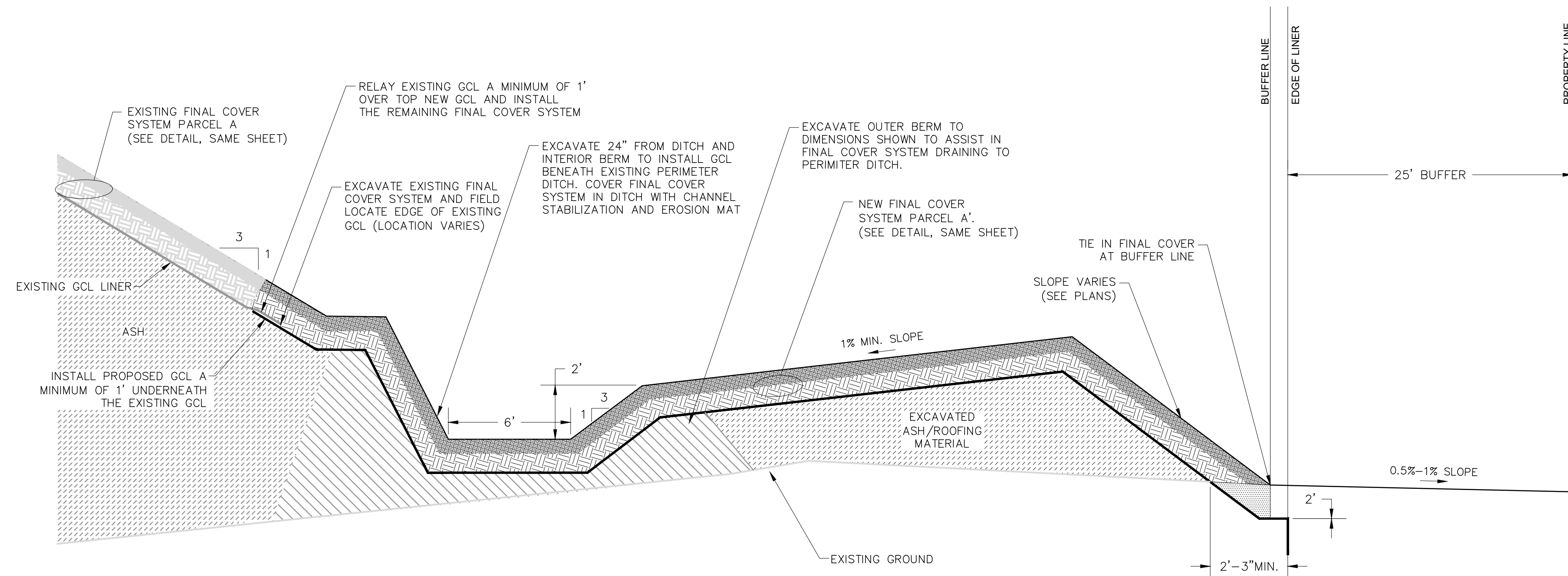
CONCRETE THRUST BLOCK

N.T.S.



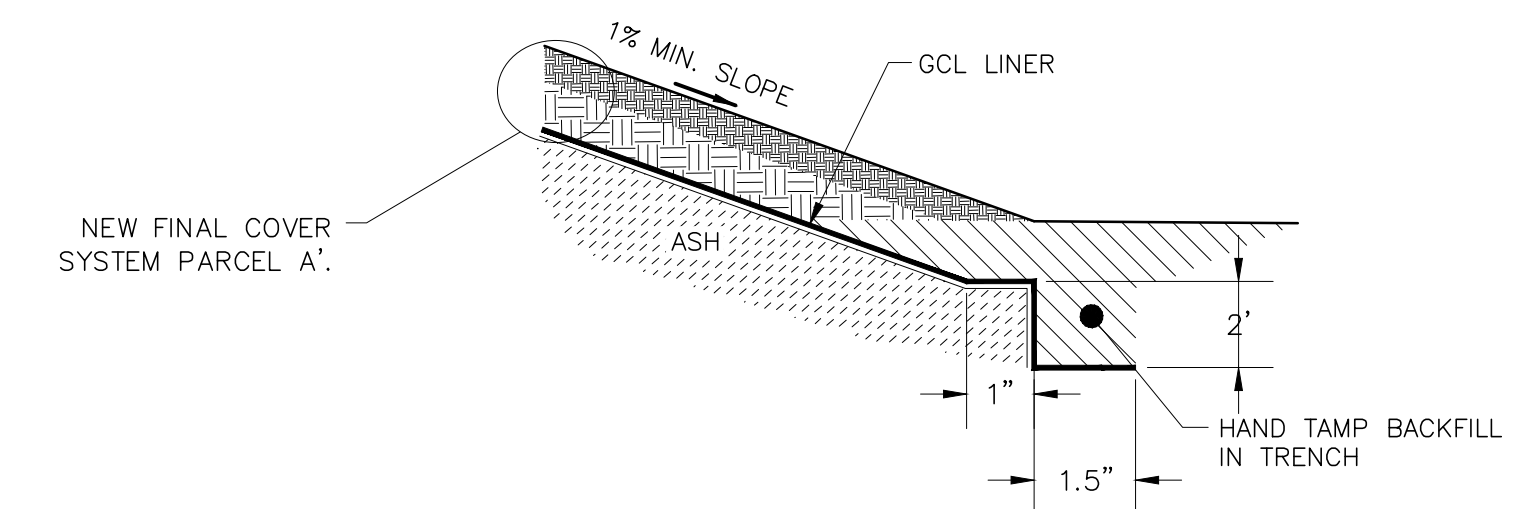
LINER EDGE MARKER

N.T.S.



CONNECTION TO EXISTING FINAL COVER SYSTEM PARCEL A


N.T.S.



OUTSIDE ANCHOR TRENCH PARCEL A'

N.T.S.



CLOSURE DETAILS			
PERMIT DRAWINGS			
FOR			
PLANT KRAFT			
GRUMAN ROAD ASH LANDFILL			
CHATHAM COUNTY, GEORGIA			
			
Atlantic Coast Consulting, Inc. 1150 Northmeadow Parkway Suite 100 Roswell, GA 30076			
PROJ. NO.	I054-109	DWG.	EDIT 05/25/2023
SCALE	N/A	SHEET 10 OF 10	
MAY 2023			