

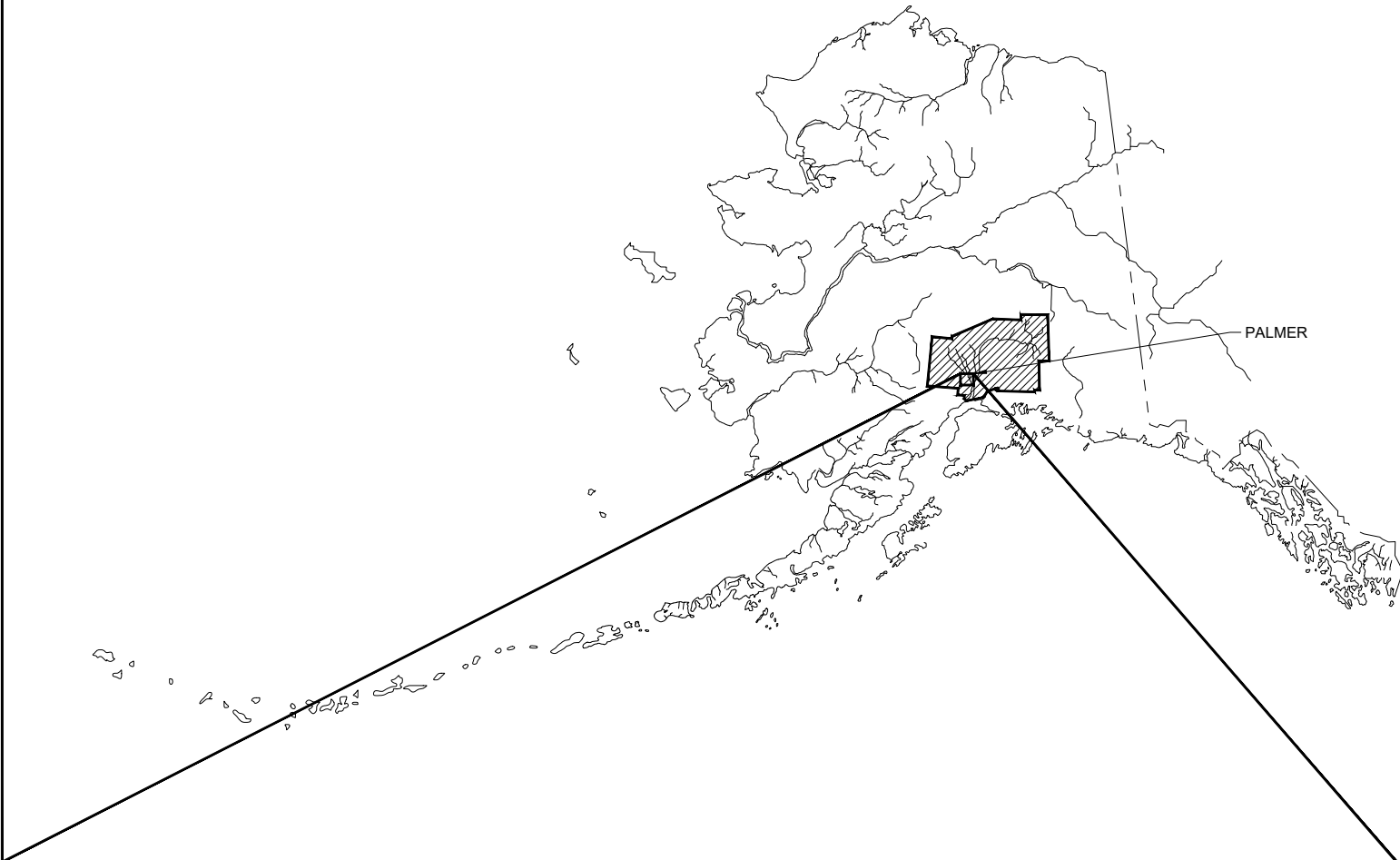
APPENDIX A – CONFORMING TO CONSTRUCTION RECORDS DRAWINGS

MATANUSKA-SUSITNA BOROUGH

PUBLIC WORKS DEPARTMENT

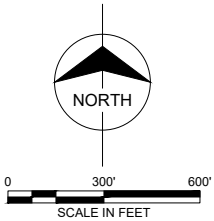


no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID
1	11/15/25	RCH	FJD	CtCR



CENTRAL LANDFILL CELL 4 EXPANSION CONSTRUCTION ⚠ CONFORMING TO CONSTRUCTION RECORDS APRIL 2025 PROJECT NUMBER: 167550

SHEET INDEX	
SHEET	TITLE
G000	COVER AND INDEX
G001	GENERAL NOTES
G002	LEGEND, ABBREVIATIONS, & QUANTITIES
G003	EXISTING CONDITIONS & CONTROL POINTS
G004	GENERAL ARRANGEMENT
C001	DEMOLITION PLAN
C002	TOP OF LINER PLAN
C003	LEACHATE PIPING PLAN
C004	CROSS SECTIONS
C005	CONSTRUCTION DETAILS, 1 OF 3
C006	CONSTRUCTION DETAILS, 2 OF 3
C007	CONSTRUCTION DETAILS, 3 OF 3
C008	GCCS RELOCATION PLAN
C009	GCCS RELOCATION DETAILS, 1 OF 4
C010	GCCS RELOCATION DETAILS, 2 OF 4
C011	GCCS RELOCATION DETAILS, 3 OF 4
C012	GCCS RELOCATION DETAILS, 4 OF 4
C013	MISCELLANEOUS CIVIL DETAILS
C014	EROSION CONTROL PLAN
C015	EROSION CONTROL DETAILS, SILT FENCE 1 OF 2
C016	EROSION CONTROL DETAILS, SILT FENCE 2 OF 2
C017	EROSION CONTROL DETAILS, EROSION CONTROL BLANKET
C018	EROSION CONTROL DETAILS, STAB. CONST. EXIT

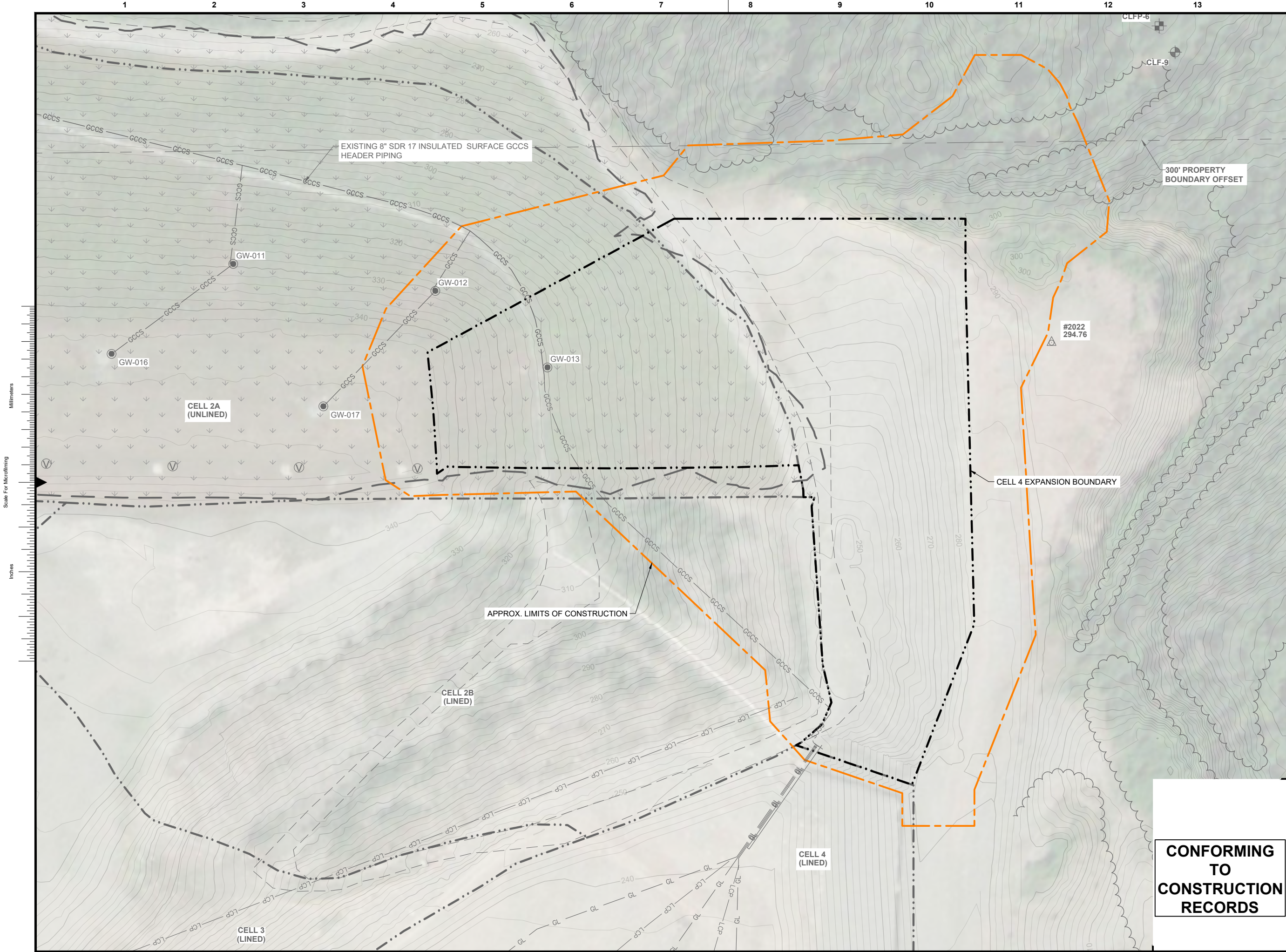




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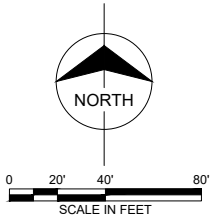
REVIEWED BY: _____

BOROUGH ENGINEER



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID

- NOTES:
- EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
 - EXISTING SITE TOPOGRAPHY CREATED FROM VARIOUS SURVEYS. MOST RECENT SURVEY OF THE CELL 4 EXPANSION AREA CREATED FROM DRAFT LIDAR DATA FLOWN IN THE FALL OF 2019 BY MSB, THE ACCURACY OF THE DATA IS NOT GUARANTEED.
 - CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH LANDFILL OPERATIONS.
 - CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING SITE FEATURES.
 - CONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR TO LIMIT ACTIVITIES TO AREAS NECESSARY TO COMPLETE THE WORK.
 - CONTRACTOR STAGING AREA TO BE COORDINATED WITH OWNER.



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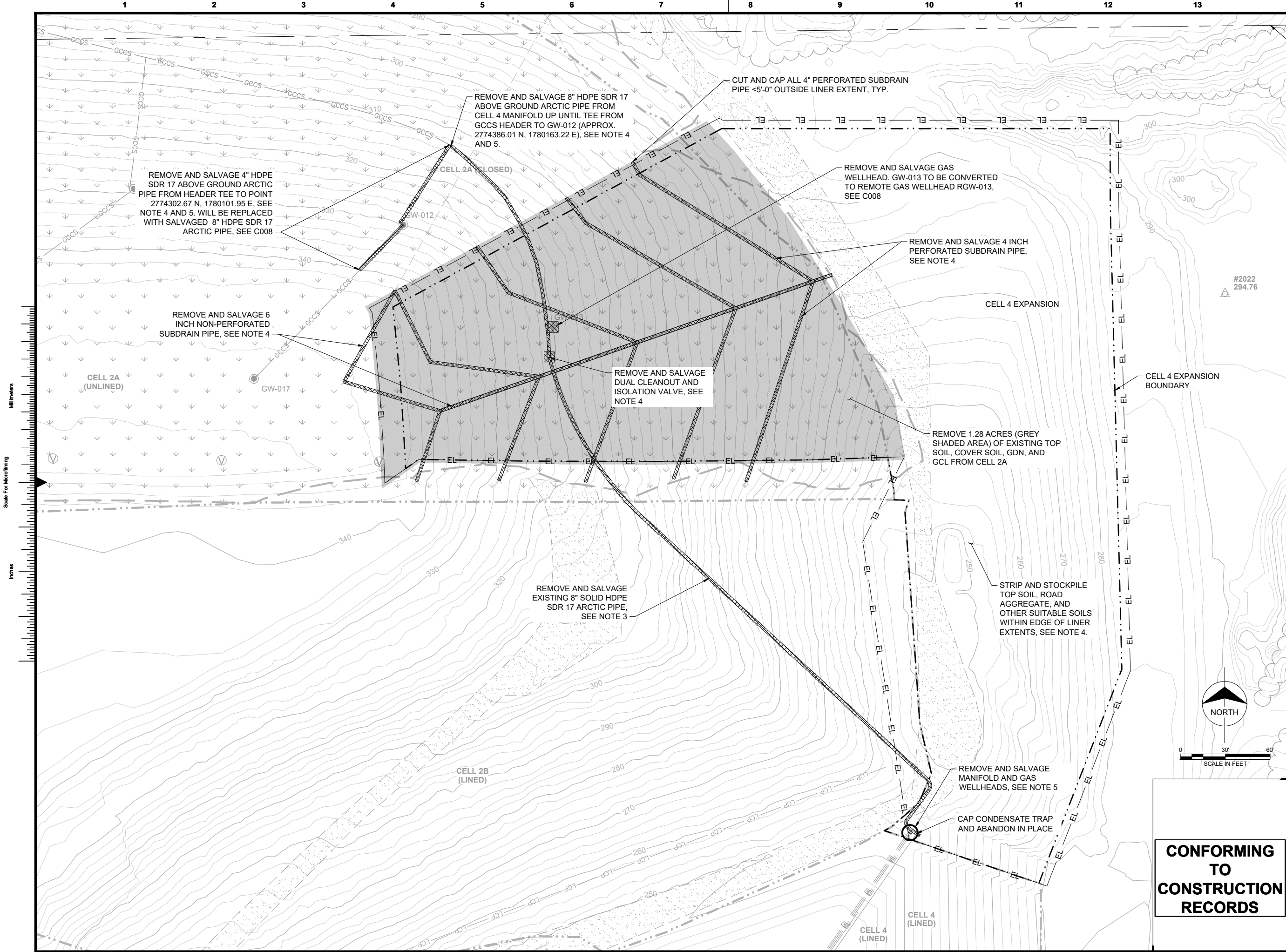
date	APRIL 2025	detailed	R. HEAMAN
designed	M. AULT	checked	F. DORAN



Matanuska-Susitna Borough, Alaska

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
GENERAL ARRANGEMENT

project	167550	contract	AUTHORIZATION #14
drawing	G004	rev.	0
sheet	of	sheets	
file	G004 GENERAL ARRANGEMENT.DWG		



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID

NOTES:

- EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
- EXISTING SITE TOPOGRAPHY CREATED FROM VARIOUS SURVEYS. MOST RECENT SURVEY OF THE CELL 4 EXPANSION AREA CREATED FROM DRAFT LIDAR DATA FLOWN IN THE FALL OF 2019 BY MSB, THE ACCURACY OF THE DATA IS NOT GUARANTEED.
- APPROXIMATELY 600-FT OF 8" SOLID ARCTIC PIPE TO BE REMOVED. APPROXIMATELY 480-FT TO BE REUSED TO CONNECT CELL 4 GAS LATERALS, SEE SHEET C008. THE REMAINING REMOVED 8" ARCTIC PIPE SHALL BE RELOCATED TO AN ON-SITE STORAGE LOCATION BY CONTRACTOR, COORDINATE WITH OWNER.
- ALL OTHER SALVAGED MATERIAL SHALL BE RELOCATED TO AN ON-SITE STORAGE LOCATION, COORDINATE WITH OWNER.
- ALL PIPE ENDS SHALL BE CAPPED UNTIL PERMANENT GCCS COMPONENTS CAN BE CONSTRUCTED. MAXIMUM SHUT DOWN OF GCCS IS 8 HOURS.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE UNKNOWN (SHOWN AT APPROXIMATE LOCATIONS) AND SHALL BE FIELD VERIFIED BY CONTRACTOR. UTILITIES MAY INCLUDE ELECTRIC, LEACHATE GRAVITY PIPING, LEACHATE FORCEMAINS, LANDFILL GAS PIPING, STORMWATER SUBDRAIN PIPE, ETC.



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LICENSE NO. AECC322

date	APRIL 2025	detailed	R. HEAMAN
designed	M. AULT	checked	F. DORAN

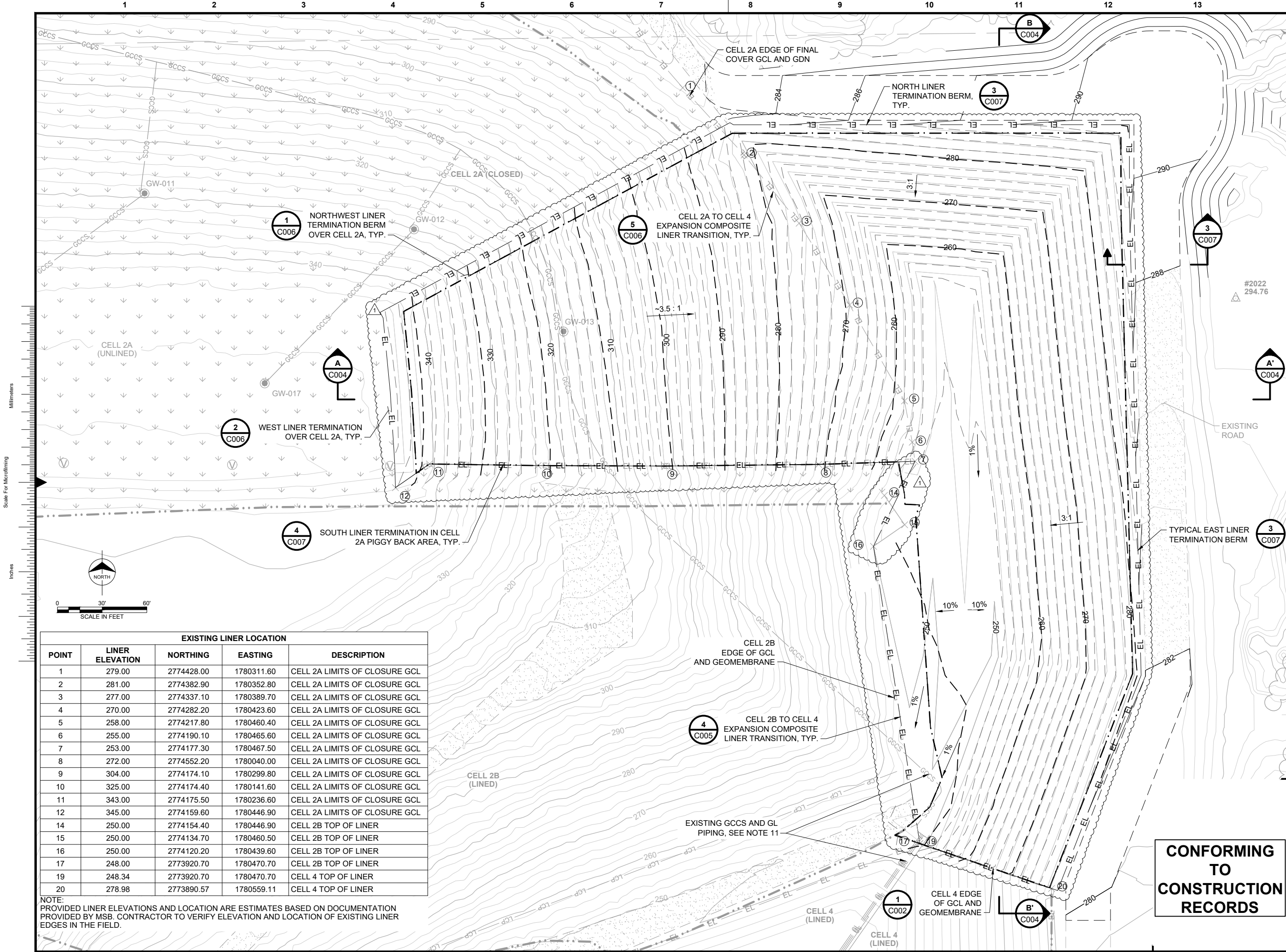


MATANUSKA-SUSITNA BOROUGH, ALASKA

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
DEMOLITION PLAN

project	167550	contract	AUTHORIZATION #14
drawing	C001	rev.	0
sheet	of	sheets	
file	C001 DEMOLITION.DWG		

**CONFORMING
TO
CONSTRUCTION
RECORDS**



EXISTING LINER LOCATION				
POINT	LINER ELEVATION	NORTHING	EASTING	DESCRIPTION
1	279.00	2774428.00	1780311.60	CELL 2A LIMITS OF CLOSURE GCL
2	281.00	2774382.90	1780352.80	CELL 2A LIMITS OF CLOSURE GCL
3	277.00	2774337.10	1780389.70	CELL 2A LIMITS OF CLOSURE GCL
4	270.00	2774282.20	1780423.60	CELL 2A LIMITS OF CLOSURE GCL
5	258.00	2774217.80	1780460.40	CELL 2A LIMITS OF CLOSURE GCL
6	255.00	2774190.10	1780465.60	CELL 2A LIMITS OF CLOSURE GCL
7	253.00	2774177.30	1780467.50	CELL 2A LIMITS OF CLOSURE GCL
8	272.00	2774552.20	1780040.00	CELL 2A LIMITS OF CLOSURE GCL
9	304.00	2774174.10	1780299.80	CELL 2A LIMITS OF CLOSURE GCL
10	325.00	2774174.40	1780141.60	CELL 2A LIMITS OF CLOSURE GCL
11	343.00	2774175.50	1780236.60	CELL 2A LIMITS OF CLOSURE GCL
12	345.00	2774159.60	1780446.90	CELL 2A LIMITS OF CLOSURE GCL
14	250.00	2774154.40	1780446.90	CELL 2B TOP OF LINER
15	250.00	2774134.70	1780460.50	CELL 2B TOP OF LINER
16	250.00	2774120.20	1780439.60	CELL 2B TOP OF LINER
17	248.00	2773920.70	1780470.70	CELL 2B TOP OF LINER
19	248.34	2773920.70	1780470.70	CELL 4 TOP OF LINER
20	278.98	2773890.57	1780559.11	CELL 4 TOP OF LINER

NOTE:
PROVIDED LINER ELEVATIONS AND LOCATION ARE ESTIMATES BASED ON DOCUMENTATION PROVIDED BY MSB. CONTRACTOR TO VERIFY ELEVATION AND LOCATION OF EXISTING LINER EDGES IN THE FIELD.

- | no. | date | by | ckd | description |
|-----|---------|-----|-----|----------------|
| 0 | 4/17/25 | RCH | FJD | ISSUED FOR BID |
| 1 | 1/14/26 | RCH | FJD | ClCR |
- NOTES:
- EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
 - EXISTING SITE TOPOGRAPHY CREATED FROM VARIOUS SURVEYS. MOST RECENT SURVEY OF THE CELL 4 EXPANSION AREA CREATED FROM DRAFT LIDAR DATA FLOWN IN THE FALL OF 2019 BY MSB. THE ACCURACY OF THE DATA IS NOT GUARANTEED.
 - DESIGN CONTOURS REPRESENT TOP OF LINER AND HAUL ROAD GRADES. DASHED CONTOURS REPRESENT AS-BUILT SURVEY OF THE LINER.
 - CONTOUR INTERVAL IS TWO FEET.
 - CELL 4 EXPANSION DESIGN GRADES ARE INTENDED TO TIE-IN TO EXISTING CELL 2A, 2B, AND 4 COMPOSITE LINER SYSTEM BASED ON BEST AVAILABLE INFORMATION. FIELD ADJUSTMENTS MAY BE REQUIRED.
 - TOP OF LINER ELEVATIONS IN CELL 2A BASED ON EXISTING GRADES LOWERED 2 FEET TO ESTIMATED LOCATION OF EXISTING GCL. FIELD ADJUSTMENTS MAY BE REQUIRED.
 - LLDPE GEOMEMBRANE LINER SHALL BE PLACED ON TOP OF NEW GCL IN CELL 2A WITHIN THE EDGE OF LINER BOUNDARY.
 - TIE-IN FOR TOP OF LINER GRADES NOT SHOWN BEYOND GEOMEMBRANE LINER EXTENTS. SEE RELEVANT DETAILS FOR EXTENT OF GEOMEMBRANE LINER TIE-IN TO SURROUNDING EXISTING GRADES. CONTRACTOR IS RESPONSIBLE FOR MANAGING LEACHATE ENCOUNTERED DURING GRADING AND LINER TIE-IN FOR ENTIRE DURATION OF THE PROJECT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGED GEOMEMBRANE LINER REGARDLESS IF DAMAGE WAS EXISTING OR CAUSED BY CONTRACTOR ACTIVITIES.
 - CONTRACTOR MAY ENCOUNTER WASTE-CONTAMINATED SOIL DURING GRADING ACTIVITIES. COORDINATE WITH OWNER FOR DISPOSAL. WASTE ENCOUNTERED DURING GRADING ACTIVITIES SHALL NOT BE CAUSE FOR A CHANGE ORDER.
 - GCOS MODIFICATIONS SHOWN ON C001 AND C008.



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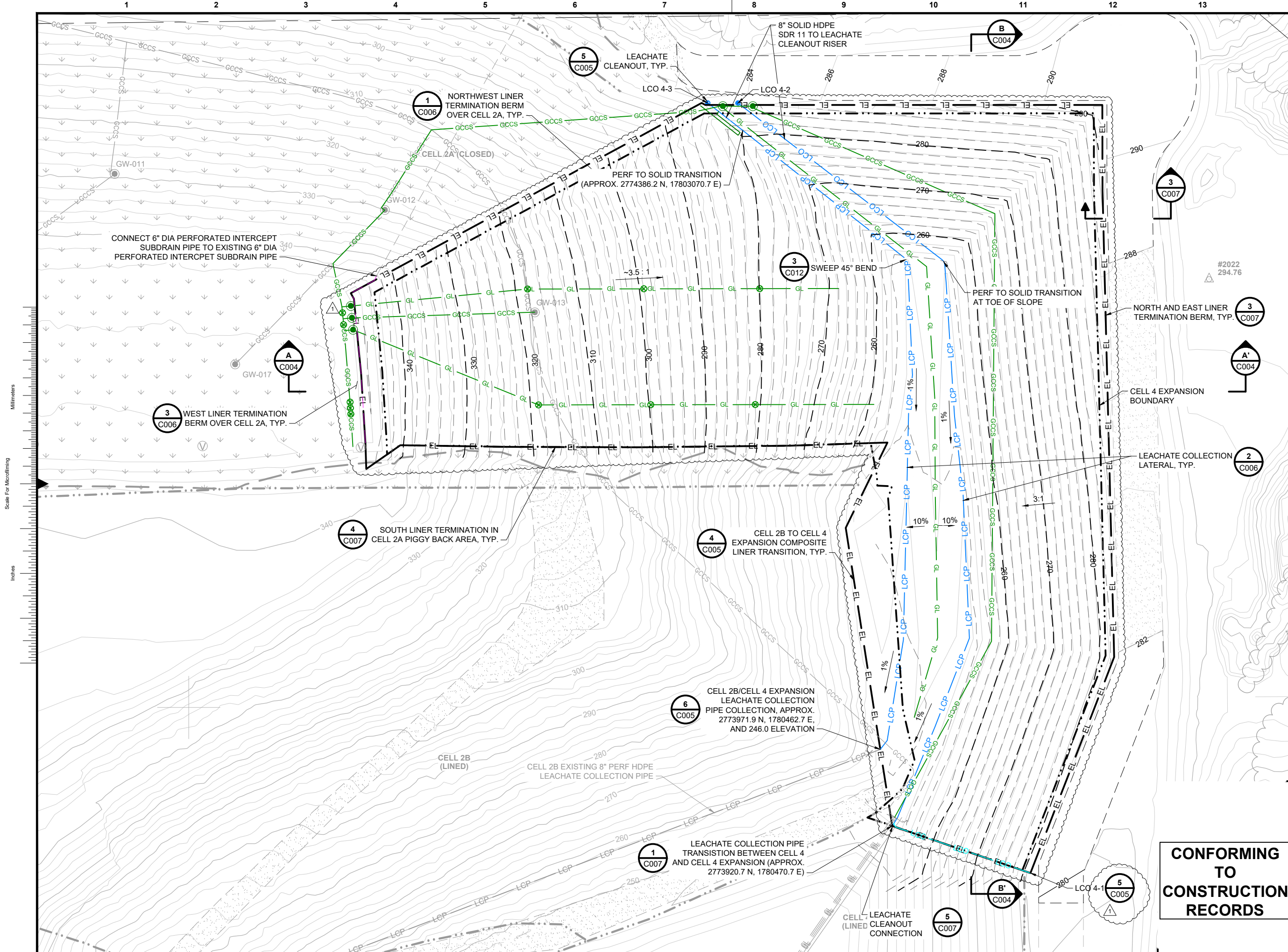
date	APRIL 2025	detailed	R. HEAMAN
designed	M. AULT	checked	F. DORAN



MATANUSKA-SUSITNA BOROUGH, ALASKA

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
TOP OF LINER PLAN

project	167550	contract	AUTHORIZATION #14
drawing	C002	rev.	1
sheet	of	sheets	
file	C002 TOP OF LINER PLAN.DWG		



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID
1	1/15/26	RCH	FJD	ClCR

NOTES:

- EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
- EXISTING SITE TOPOGRAPHY CREATED FROM VARIOUS SURVEYS. MOST RECENT SURVEY OF THE CELL 4 EXPANSION AREA CREATED FROM DRAFT LIDAR DATA FLOWN IN THE FALL OF 2019 BY MSB, THE ACCURACY OF THE DATA IS NOT GUARANTEED.
- GDM SHALL BE A MINIMUM THICKNESS OF 1'-6". DESIGN CONTOURS SHOWN REPRESENT 1'-6" OF GDM ABOVE DESIGNED TOP OF LINER GRADES. REFER TO C006 FOR DETAILED GRADING INFORMATION. DASHED CONTOURS REPRESENT AS-BUILT SURVEY ELEVATIONS OF TOP OF GDM.
- CONTOUR INTERVAL IS TWO FEET.
- EACH NEW CLEANOUT SHALL BE LABELED WITH THE NUMBER SHOWN IN THE DRAWINGS. ACCEPTABLE LABELS INCLUDE ALUMINUM SIGNS OR OUTDOOR-RATED STICKERS IN LEGIBLE FONT AT AN APPROPRIATE SIZE.
- CONTRACTOR SHALL PROTECT EXISTING LEACHATE COLLECTION PIPING AND TIE-IN POINTS.
- FOR LOCATION OF GCCS PIPING, REFER TO C008.

0 30' 60'

SCALE IN FEET

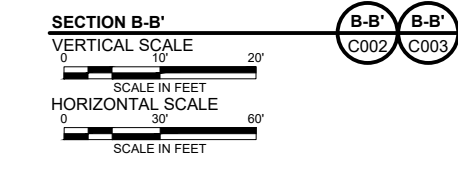
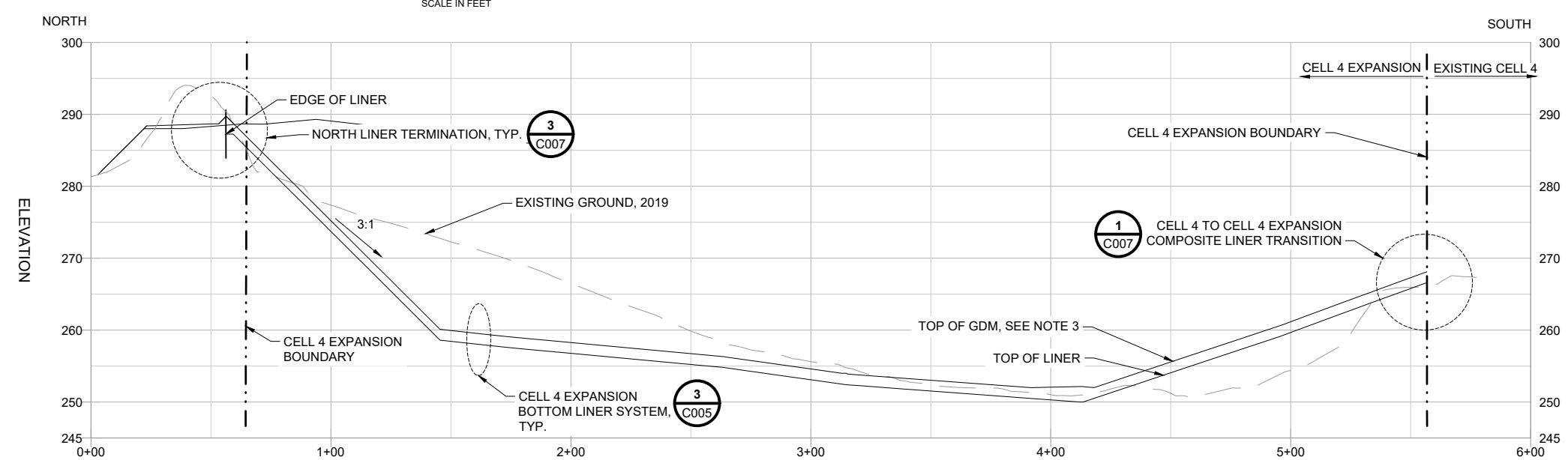
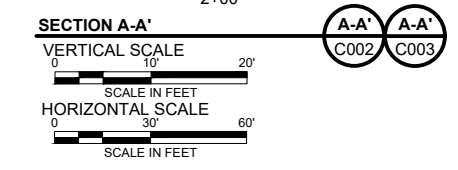
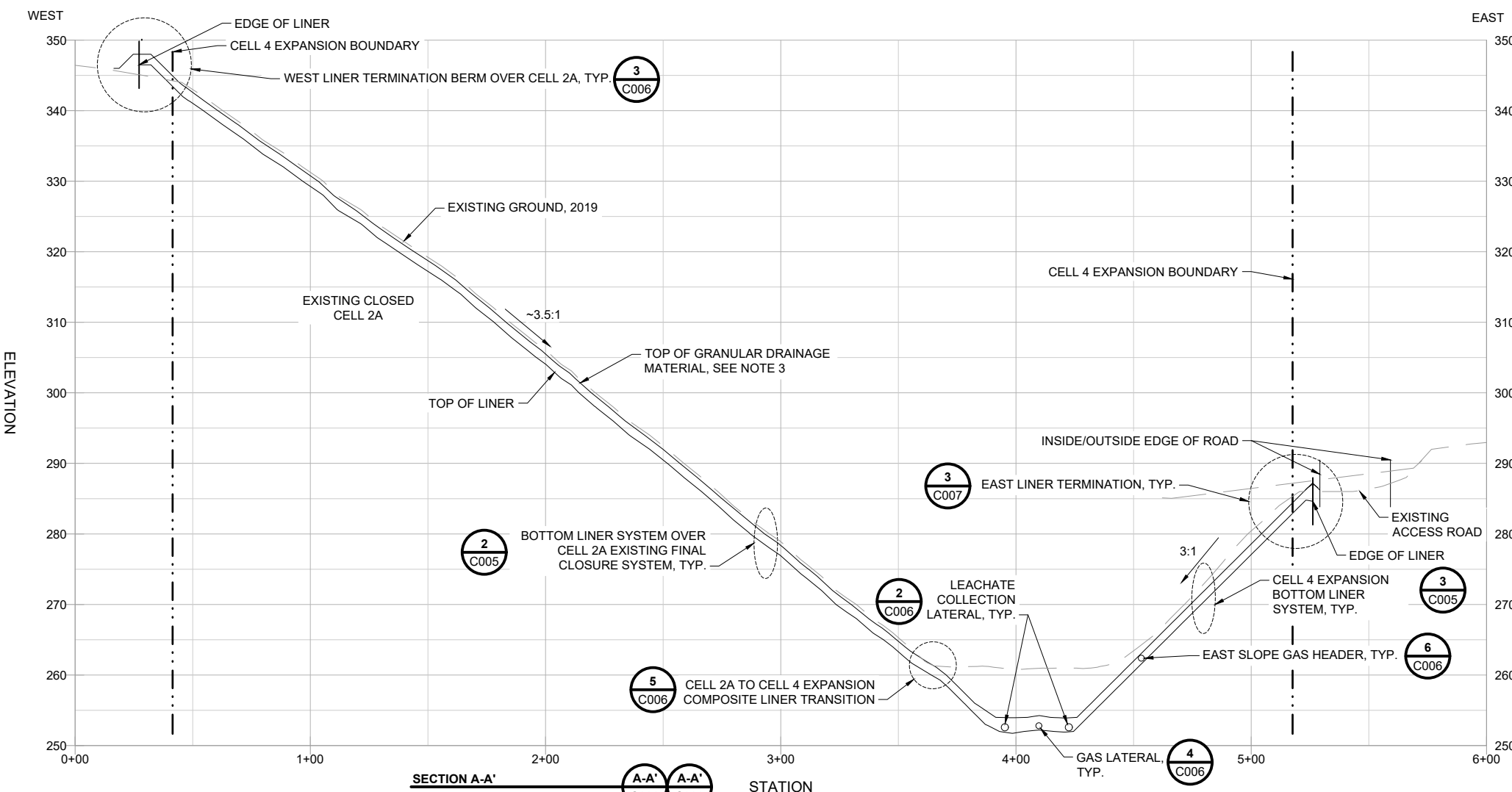
Burns & McDonnell Engineering Co., Inc.
LICENSE NO. AECC322

date	APRIL 2025	detailed	R. HEAMAN
designed	M. AULT	checked	F. DORAN

MATANUSKA-SUSITNA BOROUGH, ALASKA

CONFORMING TO CONSTRUCTION RECORDS

project	167550	contract	AUTHORIZATION #14
drawing	C003	rev.	1
sheet	of	sheets	
file	C003 LEACHATE PIPING PLAN.DWG		



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID

- NOTES:
- EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
 - EXISTING SITE TOPOGRAPHY CREATED FROM VARIOUS SURVEYS. MOST RECENT SURVEY OF THE CELL 4 EXPANSION AREA CREATED FROM DRAFT LIDAR DATA FLOWN IN THE FALL OF 2019 BY MSB, THE ACCURACY OF THE DATA IS NOT GUARANTEED.
 - GDM SHALL BE MINIMUM THICKNESS OF 1'-6". DESIGN CONTOURS SHOWN REPRESENT 1'-6" OF GDM ABOVE DESIGNED TOP OF LINER GRADES. REFER TO C006 FOR DETAIL GRADING INFORMATION.



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date APRIL 2025	detailed R. HEAMAN
designed M. AULT	checked F. DORAN

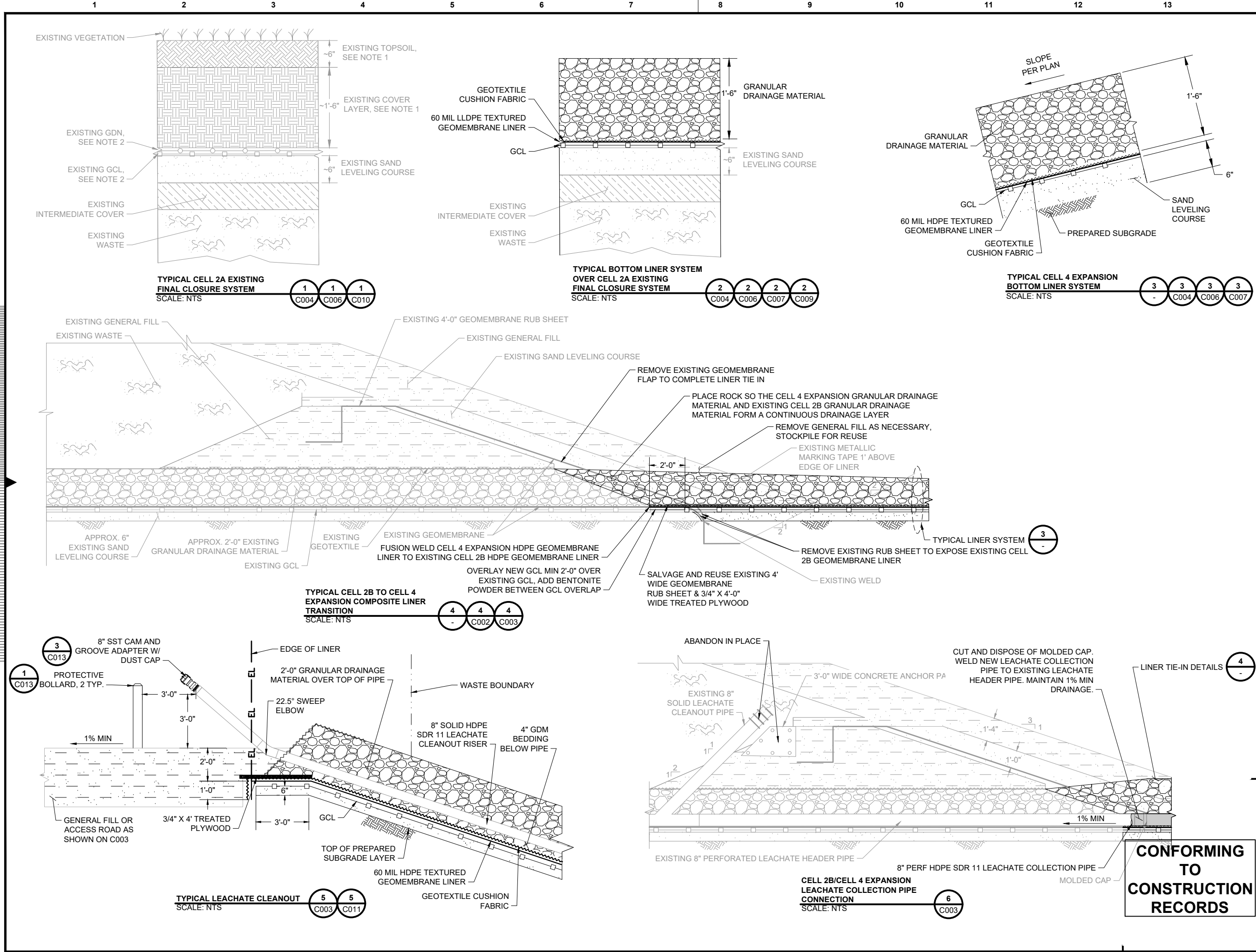


MATANUSKA-SUSITNA BOROUGH, ALASKA

CENTRAL LANDFILL (SW-1A007-26)
CELL 4 EXPANSION CONSTRUCTION
CROSS SECTIONS

project 167550	contract AUTHORIZATION #14
drawing C004	rev. 0
sheet of	sheets
file C004 CROSS SECTIONS.DWG	

**CONFORMING
TO
CONSTRUCTION
RECORDS**



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID

- NOTES:
- EXISTING TOP SOIL AND COVER SOIL TO BE REMOVED AND STOCKPILED IN COORDINATION WITH THE OWNER. THESE SOILS MAY BE REUSED FOR THIS PROJECT AS NEEDED.
 - EXISTING GCL AND GDN TO BE REMOVED WITH THE CELL 2A FINAL COVER OVERLAY AREA.

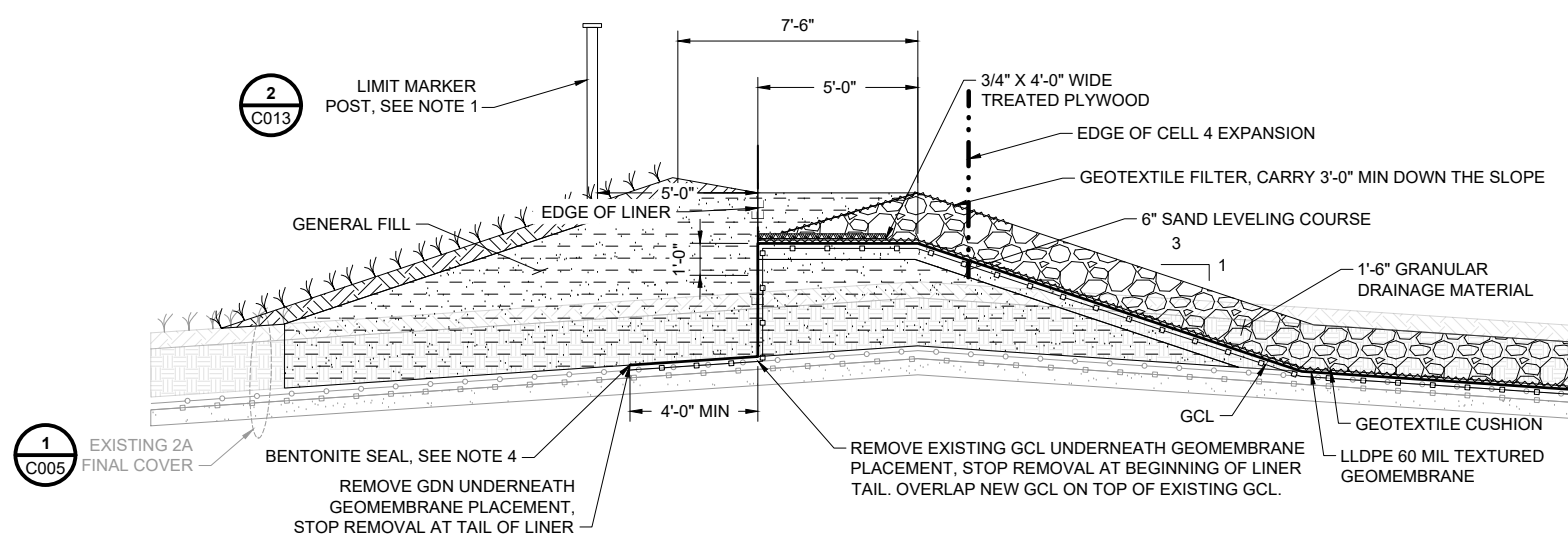


Burns & McDonnell Engineering Co, Inc. LICENSE NO. AECC322	
date APRIL 2025	detailed R. HEAMAN
designed M. AULT	checked F. DORAN

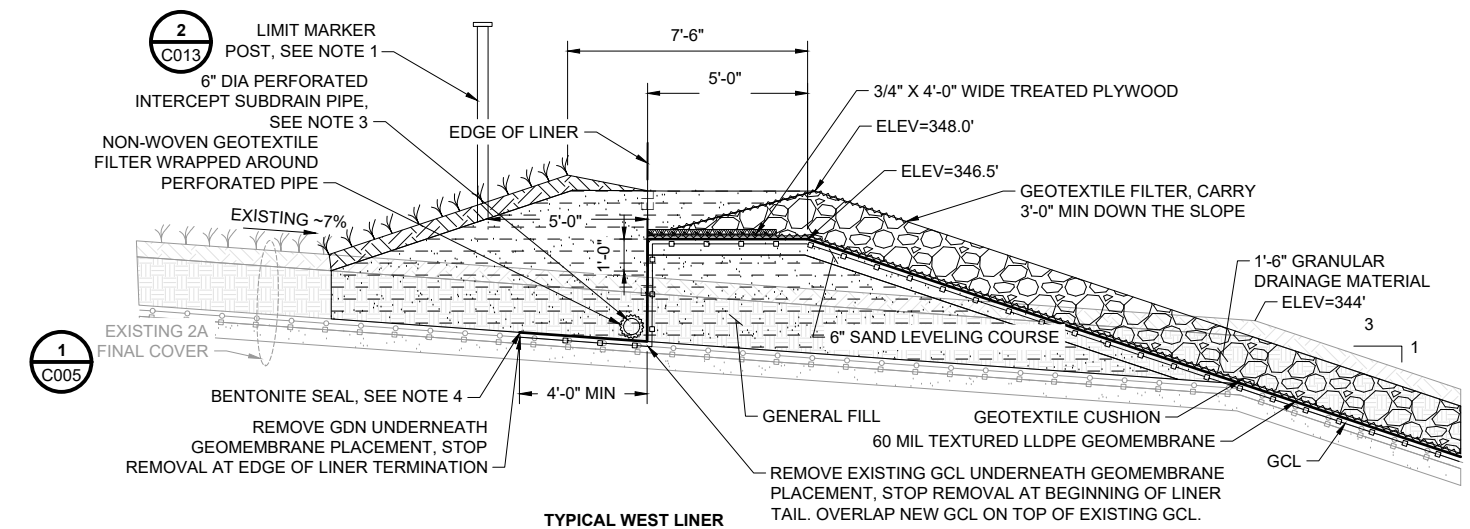


Matanuska-Susitna Borough, Alaska	
CENTRAL LANDFILL (SW1A007-26) CELL 4 EXPANSION CONSTRUCTION CONSTRUCTION DETAILS, 1 OF 3	
project 167550	contract AUTHORIZATION #14
drawing C005 - 0	
sheet	of sheets
file C005 CONSTRUCTION DETAILS, 1 OF 3.DWG	

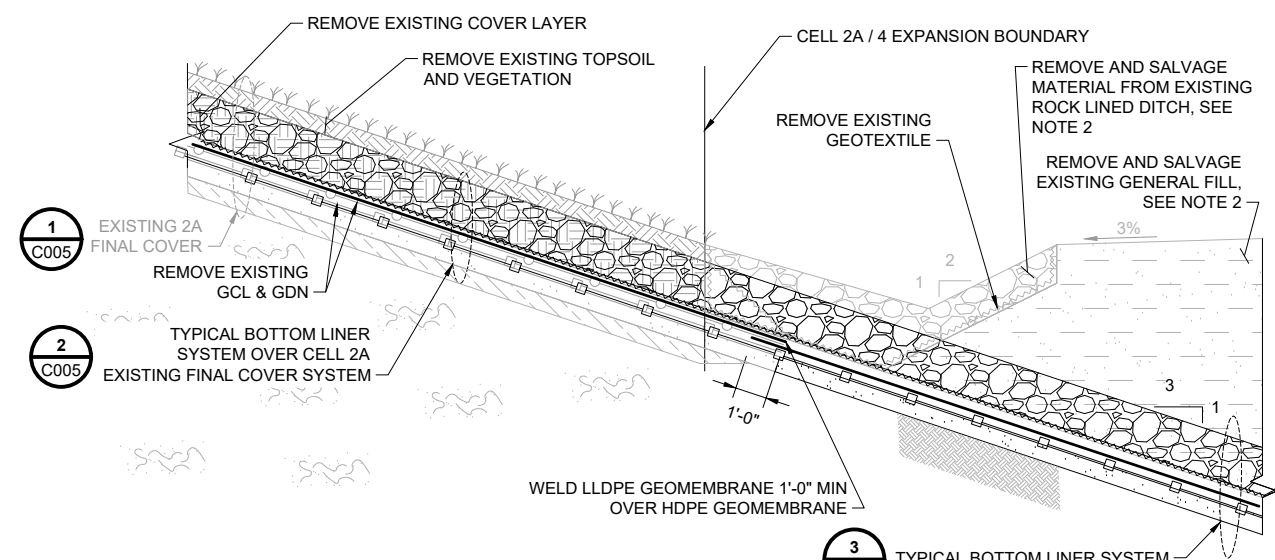
Scale For Microfilming
Inches
Millimeters



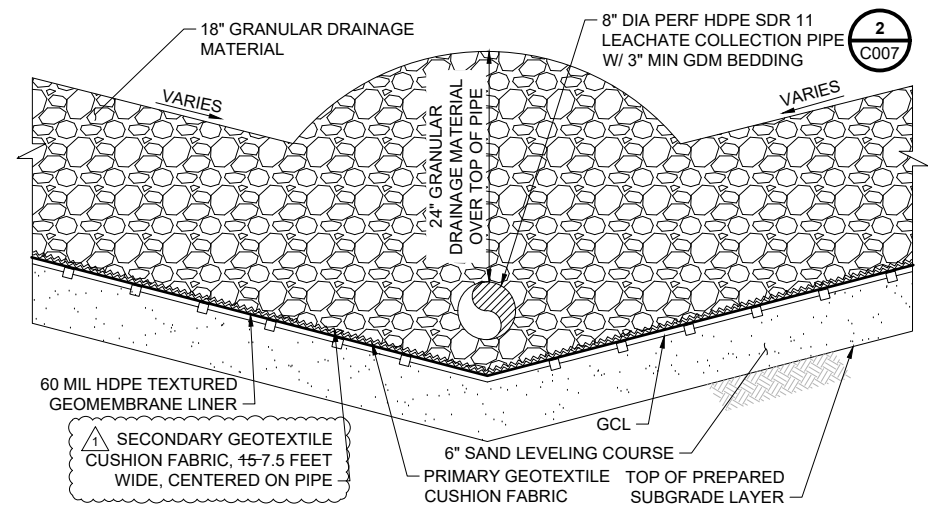
**TYPICAL NORTHWEST LINER
TERMINATION BERM
OVER CELL 2A**
SCALE: NTS



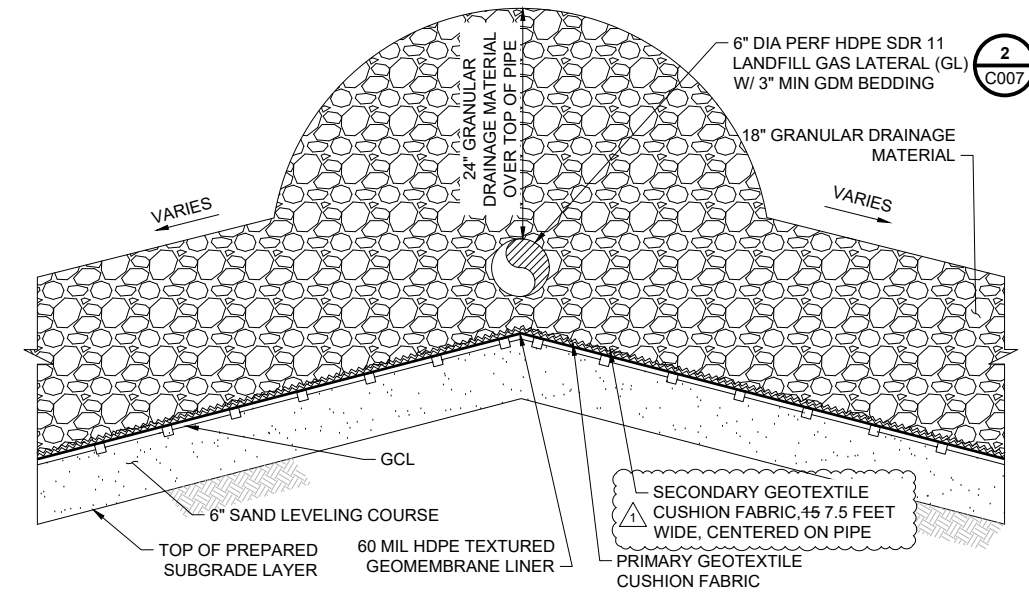
**TYPICAL WEST LINER
TERMINATION BERM
OVER CELL 2A**
SCALE: NTS



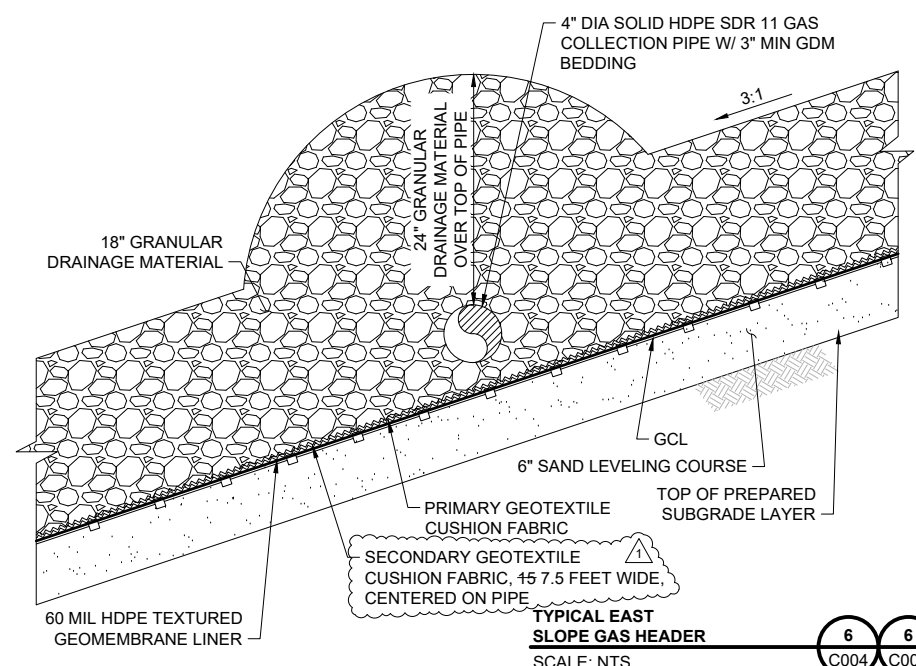
**TYPICAL CELL 2A TO CELL 4
EXPANSION COMPOSITE
LINER TRANSITION**
SCALE: NTS



**TYPICAL LEACHATE
COLLECTION LATERAL**
SCALE: NTS



TYPICAL GAS LATERAL
SCALE: NTS



**TYPICAL EAST
SLOPE GAS HEADER**
SCALE: NTS

**CONFORMING
TO
CONSTRUCTION
RECORDS**

no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID
1	1/15/26	RCH	FJD	ClCR

- NOTES:
- LIMIT MARKER POSTS SHALL BE PLACED EVERY 100-FEET ALONG THE CELL BOUNDARY. LIMIT MARKERS SHALL BE OFFSET 5 FEET TO THE OUTSIDE OF THE EDGE OF LINER ON TOP OF THE 2A PIGGYBACK. LIMIT MARKERS SHALL BE PLACED 1 FOOT OUTSIDE THE EDGE OF LINER BOUNDARY ON THE ACCESS ROAD PERIMETER.
 - SALVAGE ROCK AND GENERAL FILL, COORDINATE WITH OWNER.
 - CONNECT 6" DIA. PERFORATED INTERCEPT SUBDRAIN PIPE INTO EXISTING 6" DIA. NON-PERFORATED INTERCEPT SUBDRAIN PIPE, SEE C003 FOR INTERCEPT SUBDRAIN PIPE AND CONNECTION LOCATIONS.
 - SPREAD BENTONITE ON TOP OF LLDPE GEOMEMBRANE 12" WIDE, 1" DEEP, CENTERED ALONG EDGE OF LINER.



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LICENSE NO. AECC322

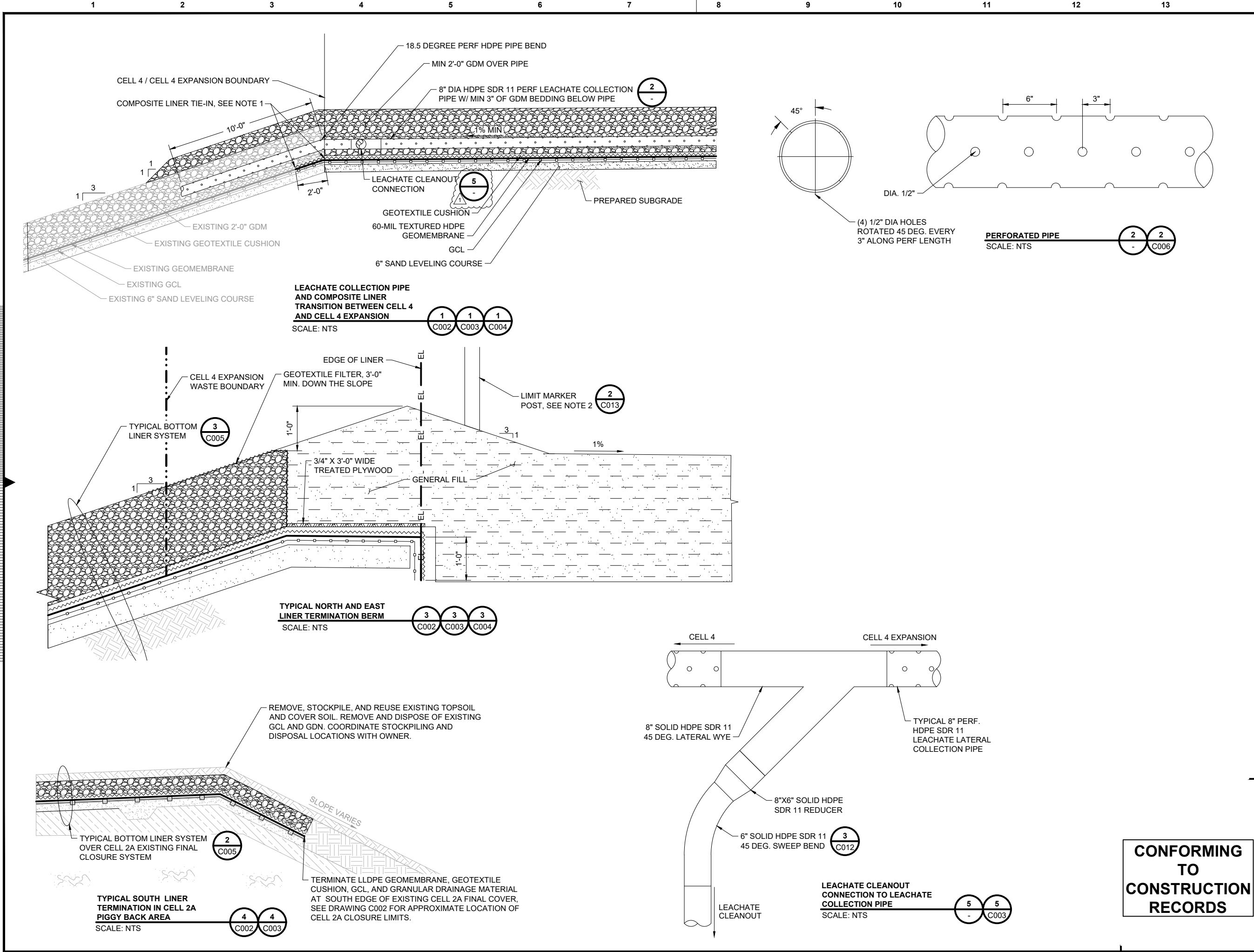
date	APRIL 2025	detailed	R. HEAMAN
designed	M. AULT	checked	F. DORAN



MATANUSKA-SUSITNA BOROUGH, ALASKA

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
CONSTRUCTION DETAILS, 2 OF 3

project	167550	contract	AUTHORIZATION #14
drawing	C006	rev.	1
sheet	of	sheets	
file	C006 CONSTRUCTION DETAILS, 2 OF 3.DWG		



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID
1	1/15/26	RCH	FJD	ClCR

NOTES:

1. UNCOVER EXISTING NORTHERN EDGE OF CELL 4 GEOMEMBRANE. EXPOSE A MINIMUM OF 2'-0" OF EXISTING GCL. OVERLAY NEW GCL ON TOP OF EXISTING GCL WITH A MINIMUM OF 2'-0" OVERLAP. PLACE POWERED BENTONITE BETWEEN GCL OVERLAP. FUSION WELD EXISTING GEOMEMBRANE AND NEW GEOMEMBRANE TOGETHER.

2. LIMIT MARKER POSTS SHALL BE PLACED EVERY 100-Feet ALONG THE CELL BOUNDARY. LIMIT MARKERS SHALL BE OFFSET 5 FEET TO THE OUTSIDE OF THE EDGE OF LINER ON TOP OF THE 2A PIGGYBACK. LIMIT MARKERS SHALL BE PLACED 1 FOOT OUTSIDE THE EDGE OF LINER BOUNDARY ON THE ACCESS ROAD PERIMETER.

Burns & McDonnell Engineering Co., Inc.
LICENSE NO. AECC322

date
APRIL 2025

designed
M. AULT

detailed
R. HEAMAN

checked
F. DORAN

MATANUSKA-SUSITNA BOROUGH, ALASKA

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
CONSTRUCTION DETAILS, 3 OF 3

project
167550

contract
AUTHORIZATION #14

drawing
C007

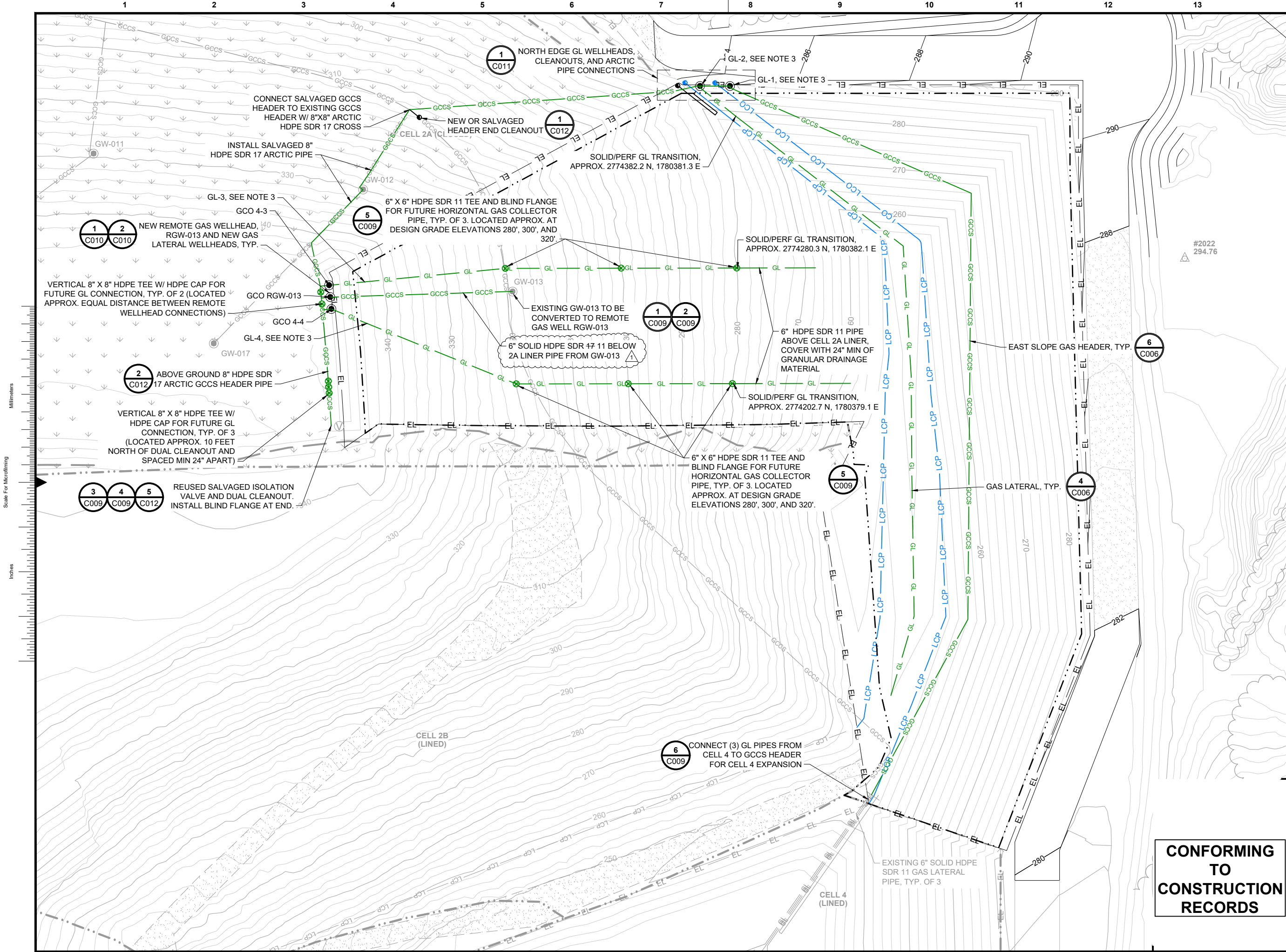
rev.
1

sheet
of

sheets

file C007 CONSTRUCTION DETAILS, 3 OF 3.DWG

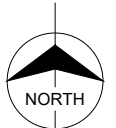
CONFORMING TO CONSTRUCTION RECORDS



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID
1	1/15/26	RCH	FJD	ClCR

NOTES:


- EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
- EXISTING SITE TOPOGRAPHY CREATED FROM VARIOUS SURVEYS. MOST RECENT SURVEY OF THE CELL 4 EXPANSION AREA CREATED FROM DRAFT LIDAR DATA FLOWN IN THE FALL OF 2019 BY MSB, THE ACCURACY OF THE DATA IS NOT GUARANTEED.
- EACH NEW CLEANOUT, GAS WELL, AND GAS LATERAL SHALL BE LABELED WITH THE NUMBER SHOWN IN THE DRAWINGS. ACCEPTABLE LABELS INCLUDE ALUMINUM SIGNS OR OUTDOOR-RATED STICKERS IN LEGIBLE FONT AT AN APPROPRIATE SIZE.



NORTH

0 30' 60'

SCALE IN FEET




**BURNS
MCDONNELL**

Burns & McDonnell Engineering Co, Inc.
LICENSE NO. AECC322

date	detailed
APRIL 2025	R. HEAMAN

designed	checked
M. AULT	F. DORAN



MATANUSKA-SUSITNA BOROUGH, ALASKA

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
GCCS RELOCATION PLAN

project	contract
167550	AUTHORIZATION #14

drawing	rev.
C008	1

sheet	of	sheets

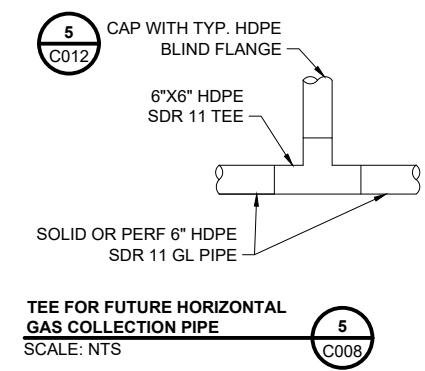
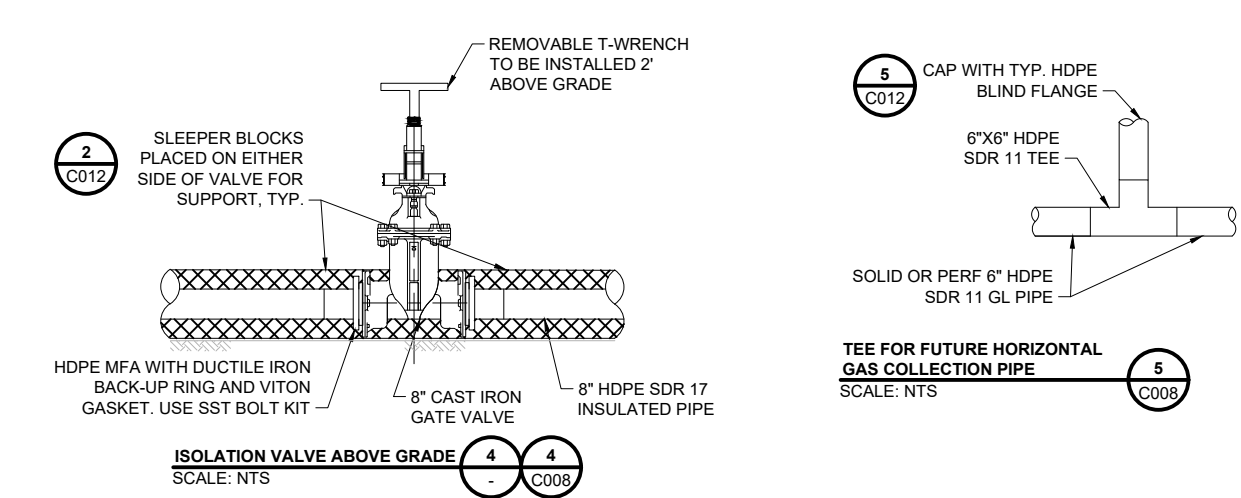
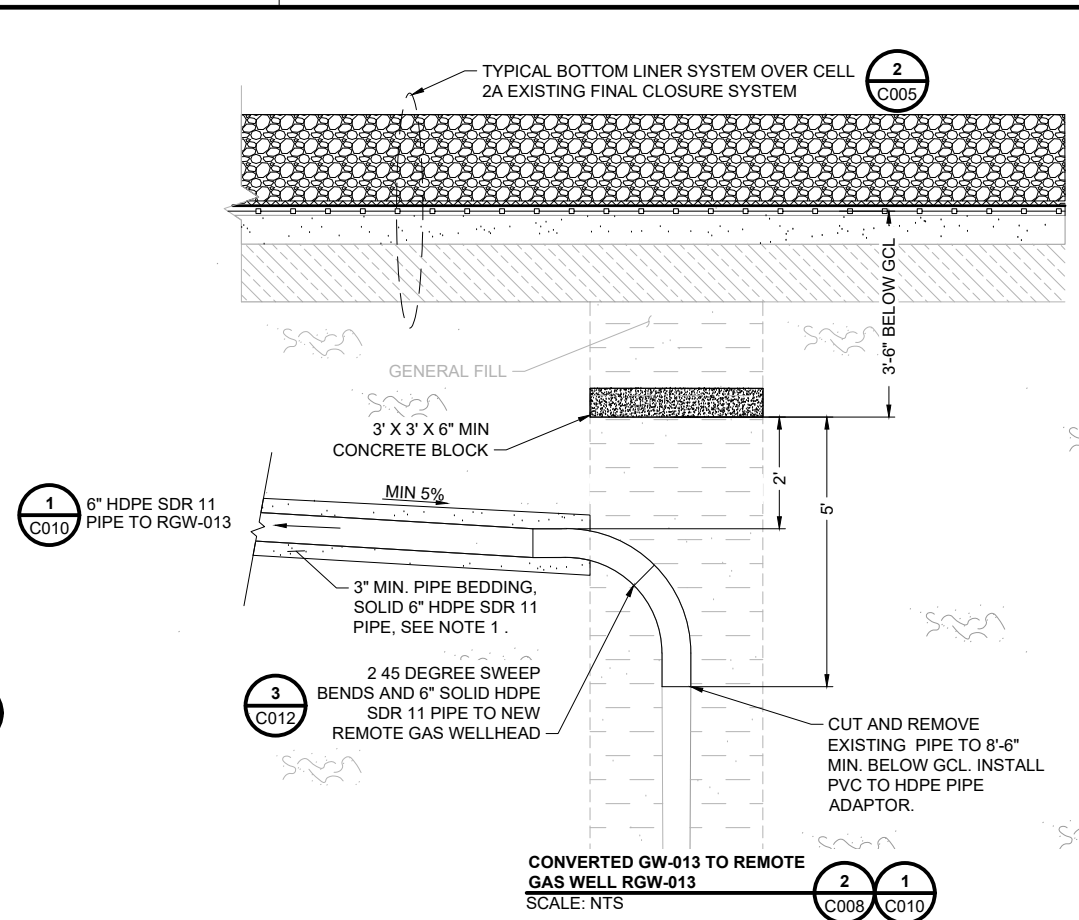
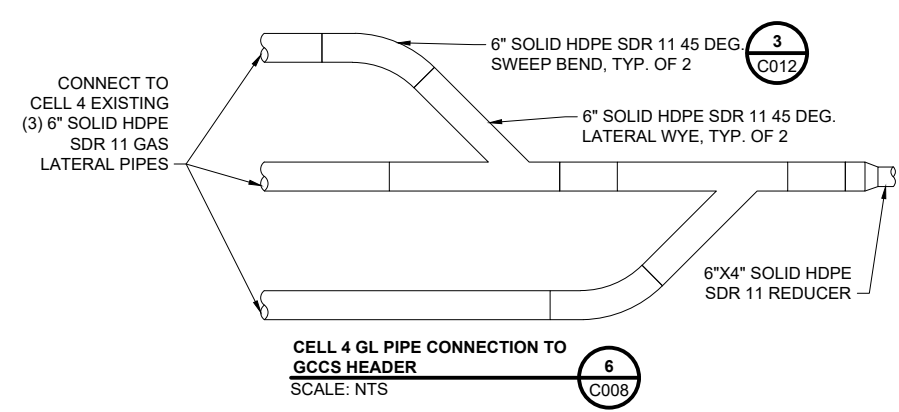
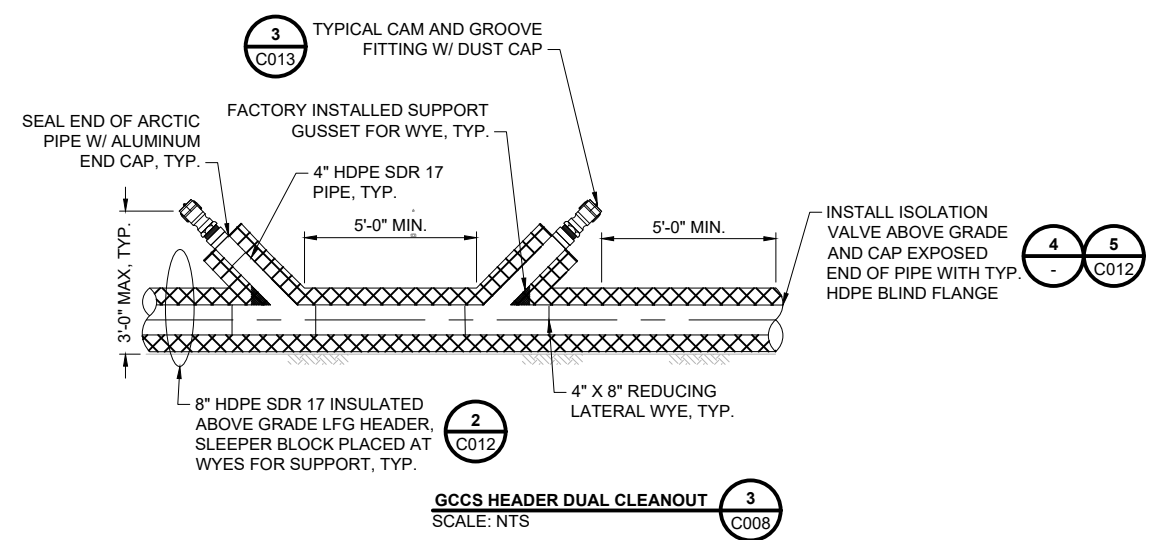
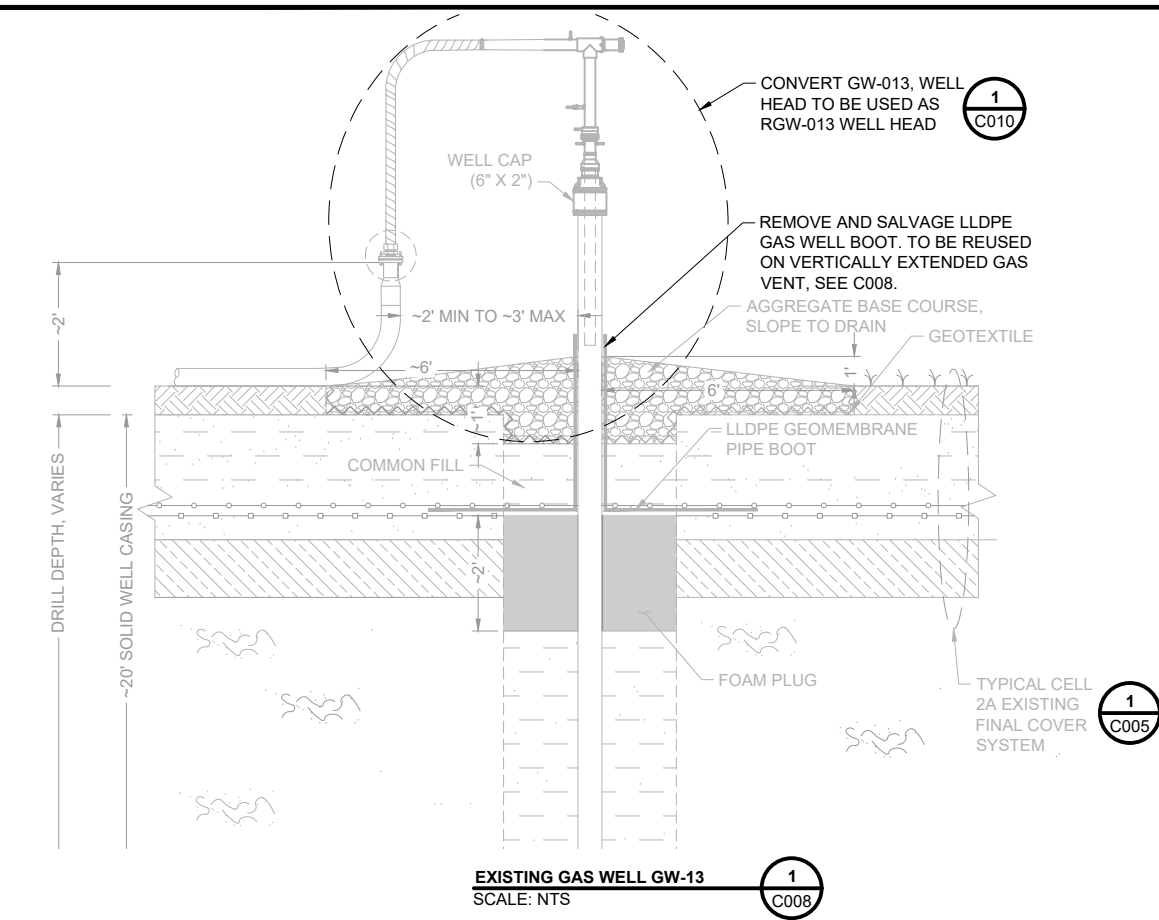
file C008 GCCS RELOCATION PLAN.DWG

1 2 3 4 5 6 7 8 9 10 11 12 13

Millimeters

Scale For Microfilming

Inches



CONFORMING TO CONSTRUCTION RECORDS

no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID

NOTES:


1. WASTE EXCAVATED DURING INSTALLATION OF REMOTE GAS WELL PIPE MAY BE BACKFILLED IN REMOTE GAS WELL TRENCH AFTER PLACEMENT OF PIPE AND BEDDING MATERIAL. WASTE BACKFILL SHALL EXTEND FROM THE TOP OF PIPE BEDDING MATERIAL TO NO MORE THAN TWO FEET BELOW THE GCL. FROM 24" TO 6" BELOW THE GCL, BACKFILL WITH GENERAL FILL. THE FINAL 6" BELOW THE GCL SHALL BE BACKFILLED WITH SAND LEVELING COURSE MATERIAL.

BURNS MCDONNELL

Burns & McDonnell Engineering Co, Inc.
LICENSE NO. AECC322

date	detailed
APRIL 2025	R. HEAMAN

designed	checked
M. AULT	F. DORAN



MATANUSKA-SUSITNA BOROUGH, ALASKA

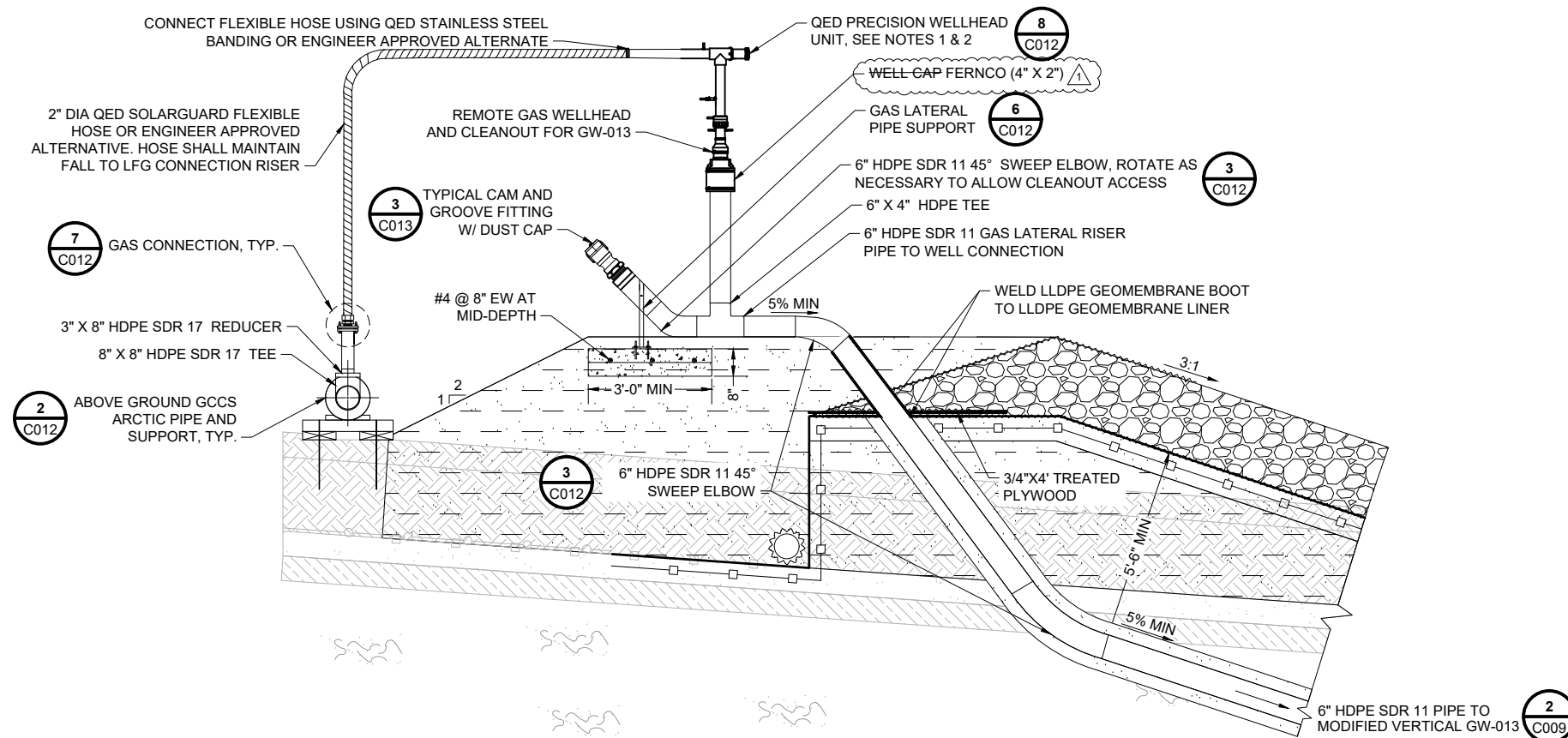
CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
GCCS RELOCATION DETAILS, 1 OF 4

project	contract
167550	AUTHORIZATION #14

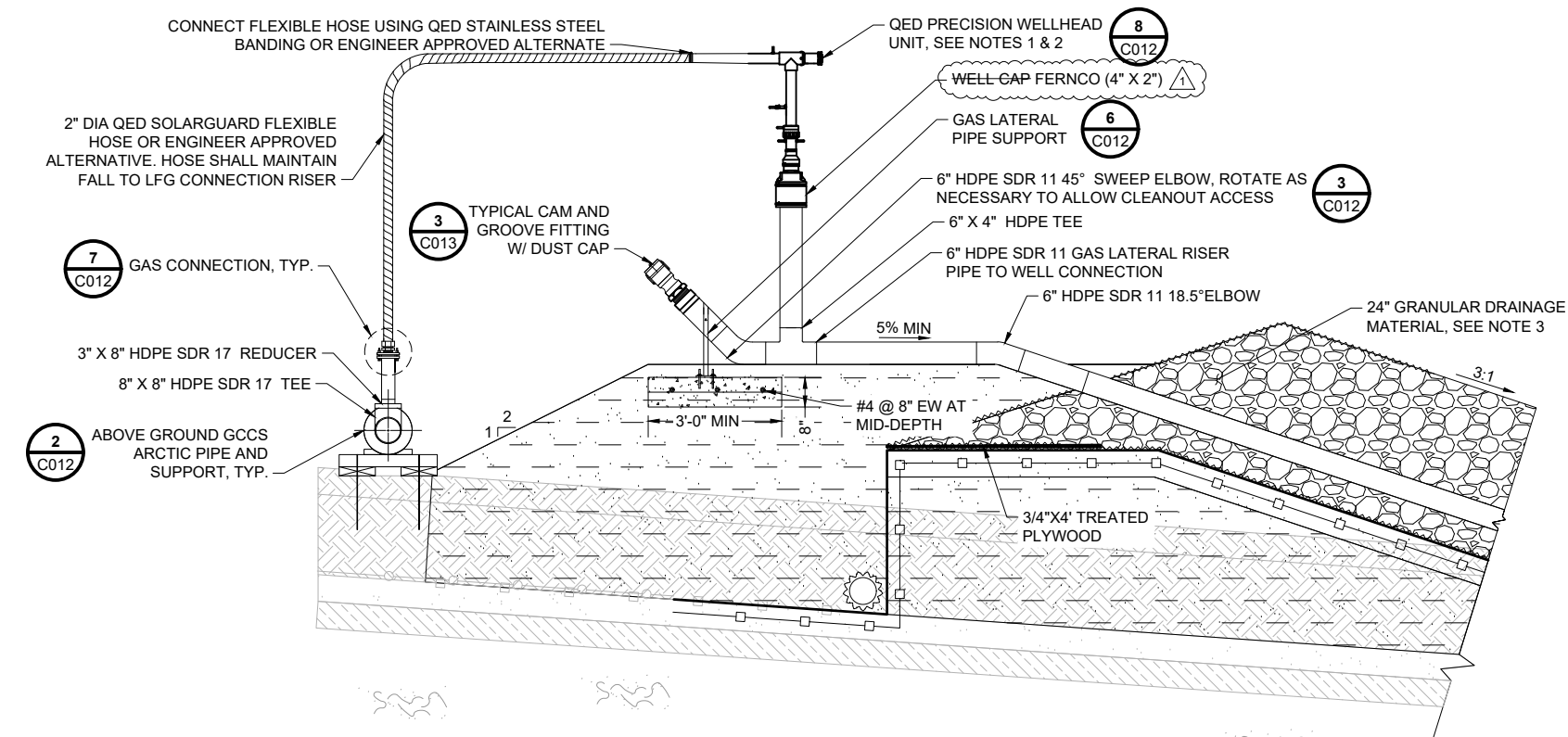
drawing	rev.
C009	0

sheet	of	sheets

file C009 GCCS RELOCATION DETAILS, 1 OF 4.DWG



**RGW-013, CLEANOUT, AND
GCCS PIPE CONNECTION**
SCALE: NTS



**GL WELLHEAD, CLEANOUT, AND
GCCS PIPE CONNECTION**
SCALE: NTS

no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID
1	1/15/26	RCH	FJD	CtCR

NOTES:

1. THE WELLHEAD ASSEMBLY SHALL BE SUPPLIED AS A COMPLETE MANUFACTURED QED PRECISION WELLHEAD UNIT OR ENGINEER-APPROVED ALTERNATE. CONTRACTOR TO SUPPORT WELLHEAD WITH T-POSTS AND SLEEPER BLOCKS. CONTRACTOR SHALL MAINTAIN LINER INTEGRITY WHEN INSTALLING T-POSTS AND SLEEPER BLOCKS.
2. INSTALL QED POLAR GUARD INSULATING WELLHEAD COVER, OR ENGINEER-APPROVED ALTERNATE, ON ALL WELLHEADS.
3. CONTRACTOR SHALL MOUND 24" OF UNCOMPACTED GRANULAR DRAINAGE MATERIAL OVER ALL GAS LATERAL AND CONDENSATE DRAIN PIPING UNLESS OTHERWISE NOTED.



Burns & McDonnell Engineering Co, Inc.
LICENSE NO. AECC322

date APRIL 2025	detailed R. HEAMAN
designed M. AULT	checked F. DORAN

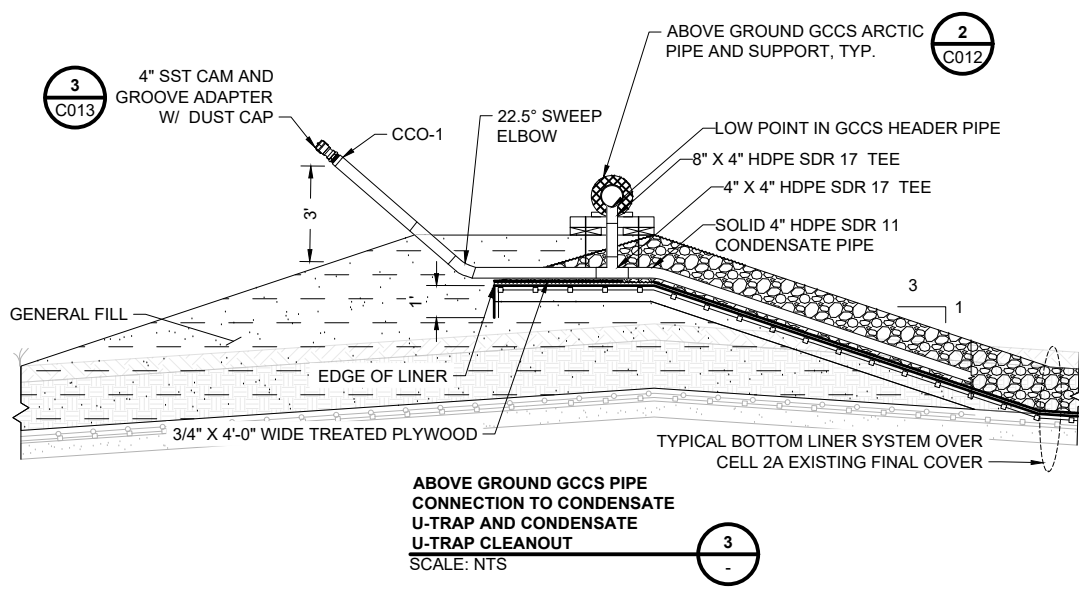
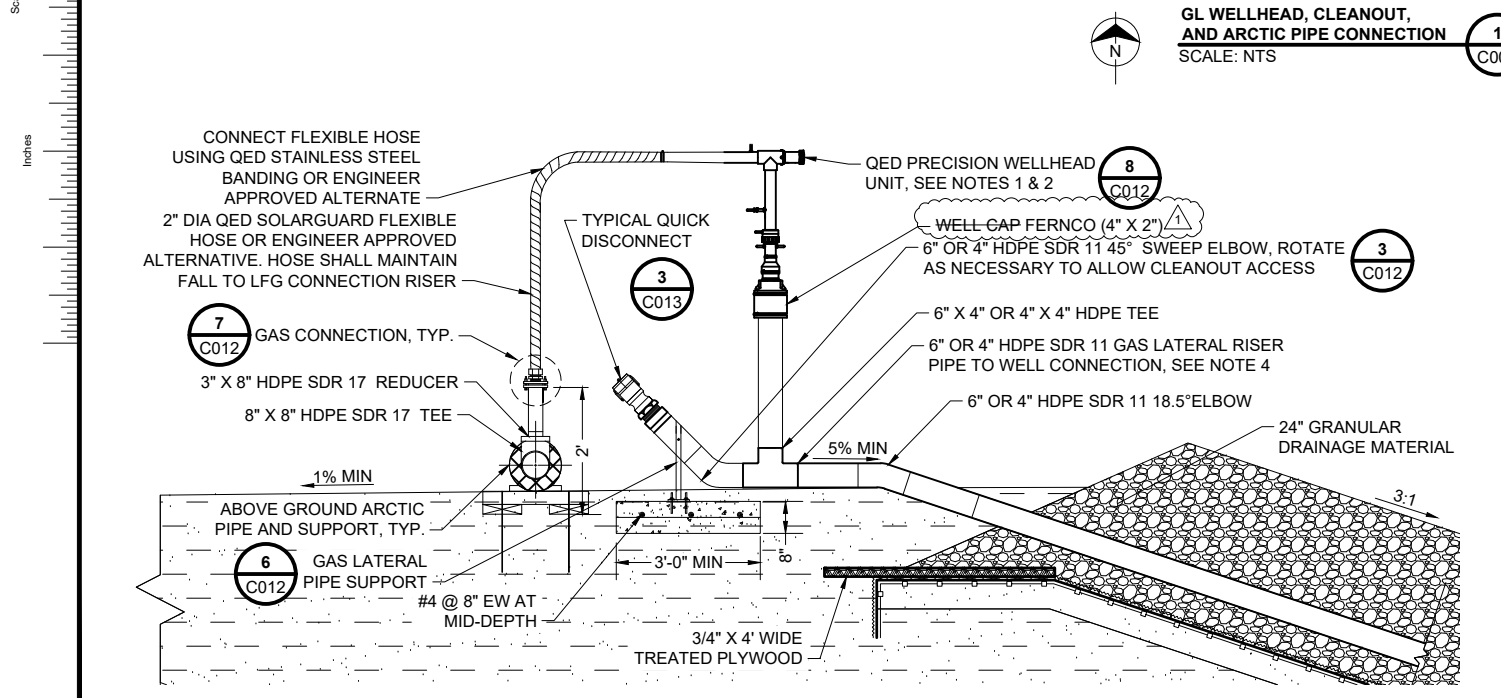
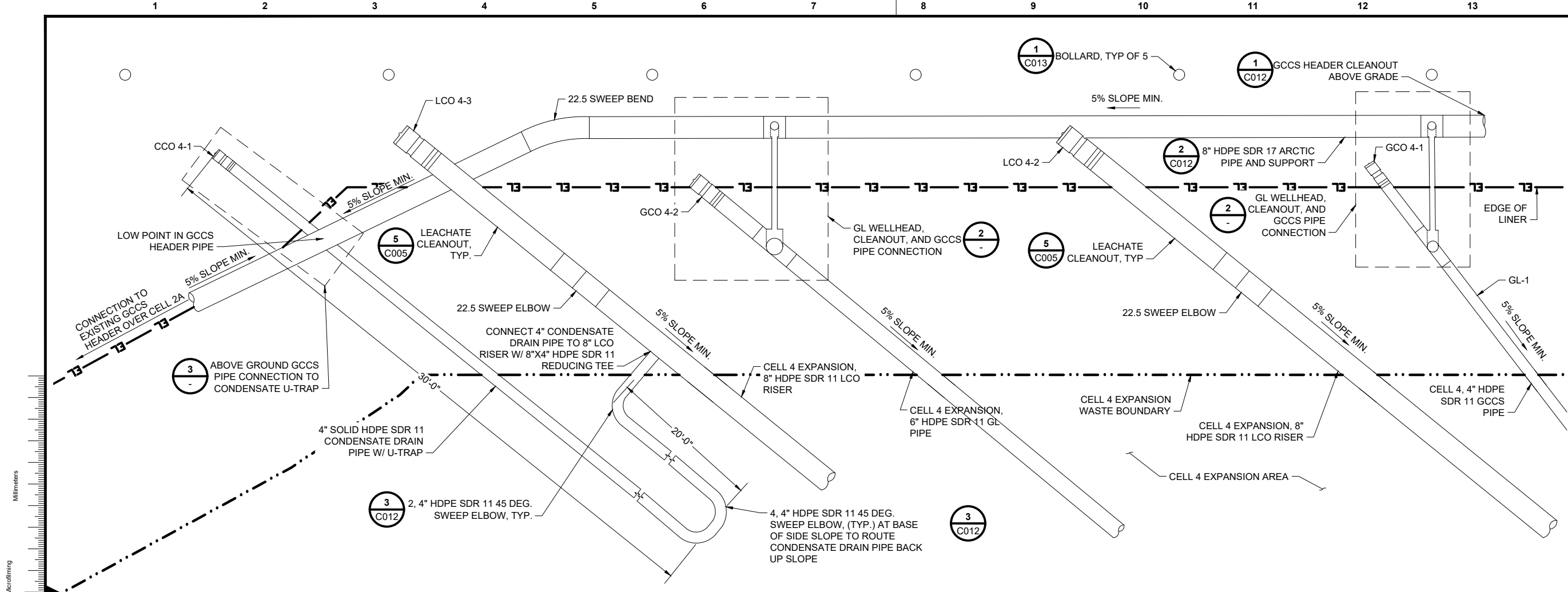


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CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
GCCS RELOCATION DETAILS, 2 OF 4

project	contract
167550	AUTHORIZATION #14
drawing	rev.
C010	1
sheet	of sheets
file C010 GCCS RELOCATION DETAILS; 2 OF 4.DWG	

**CONFORMING
TO
CONSTRUCTION
RECORDS**



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID
1	1/15/26	RCH	FJD	CICR

- NOTES:
- THE WELLHEAD ASSEMBLY SHALL BE SUPPLIED AS A COMPLETE MANUFACTURED QED PRECISION WELLHEAD UNIT OR ENGINEER-APPROVED ALTERNATE. CONTRACTOR TO SUPPORT WELLHEAD WITH T-POSTS AND SLEEPER BLOCKS. CONTRACTOR SHALL ENSURE NOT TO PENETRATE EXISTING GCL LINER.
 - INSTALL QED POLAR GUARD INSULATING WELLHEAD COVER, OR ENGINEER-APPROVED ALTERNATE, ON ALL WELLHEADS.
 - CONTRACTOR SHALL MOUND 24" OF UNCOMPACTED GRANULAR DRAINAGE MATERIAL OVER ALL GAS LATERAL AND CONDENSATE DRAIN PIPING UNLESS OTHERWISE NOTED.
 - AFTER PROJECT IS COMPLETED, BOROUGH WILL COVER GAS LATERAL RISER PIPE TO WELL CONNECTION AND CLEANOUT WITH COMPOST FOR INSULATION.
 - WASTE EXCAVATED DURING INSTALLATION OF REMOTE GAS LATERAL PIPE MAY BE BACKFILLED IN REMOTE GAS LATERAL TRENCH AFTER PLACEMENT OF PIPE AND BEDDING MATERIAL. WASTE BACKFILL SHALL EXTEND FROM THE TOP OF PIPE BEDDING MATERIAL TO NO MORE THAN TWO FEET BELOW EXISTING GCL. THE FINAL 6 INCHES TO TWO FEET OF BACKFILL BELOW EXISTING GCL SHALL CONSIST OF GENERAL FILL. THE FINAL 6 INCHES SHALL CONSIST OF CUSHION LAYER MATERIAL.
 - COORDINATE WITH OWNER FOR DISPOSAL OF EXCESS EXCAVATED WASTE.
 - CONTRACTOR SHALL MAINTAIN LINER INTEGRITY WHEN INSTALLING T-POSTS AND SLEEPER BLOCKS.



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date	APRIL 2025	detailed	R. HEAMAN
designed	M. AULT	checked	F. DORAN

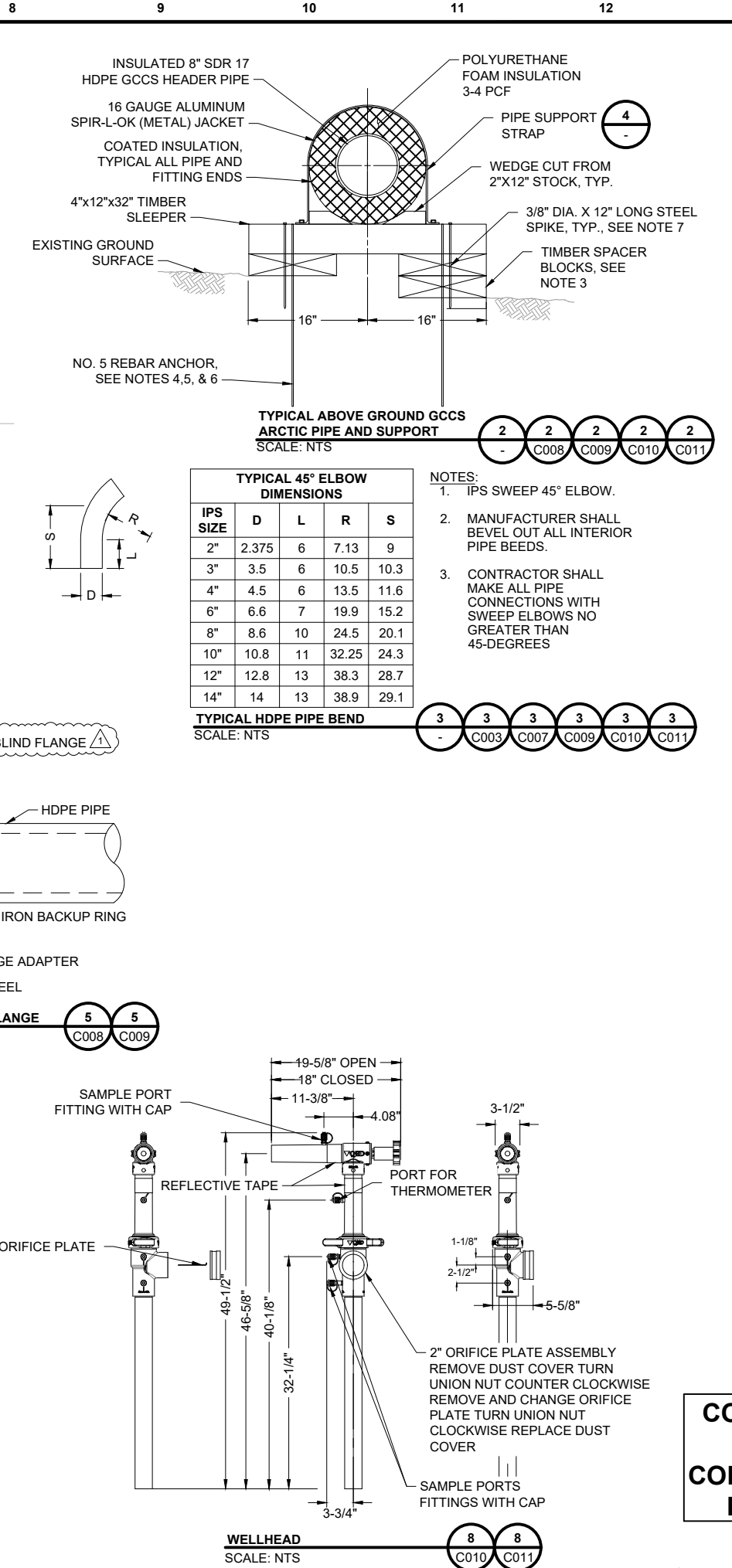
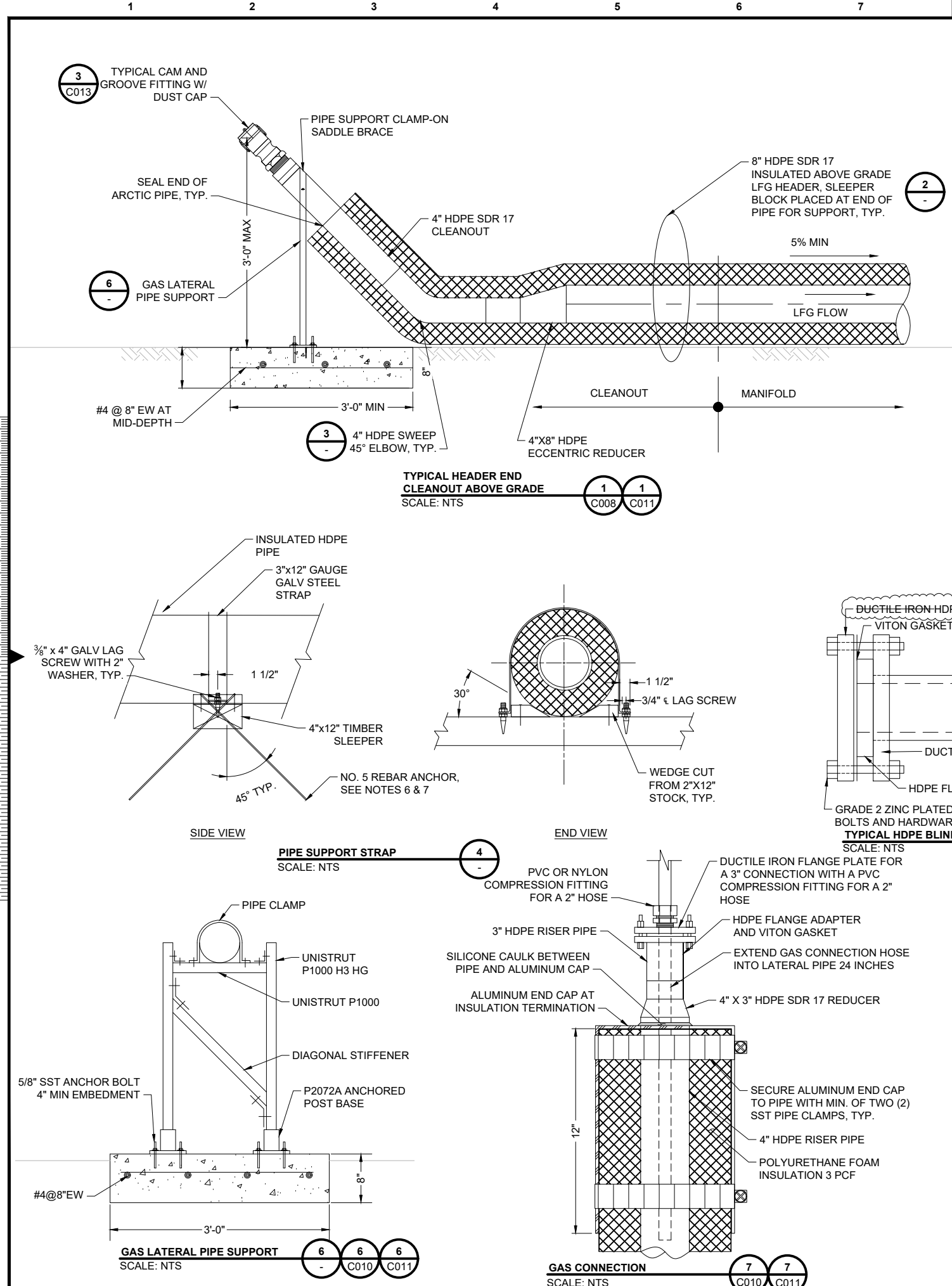


MATANUSKA-SUSITNA BOROUGH, ALASKA

CENTRAL LANDFILL (SW1A007-26) CELL 4 EXPANSION CONSTRUCTION GCCS RELOCATION DETAILS, 3 OF 4			
project	167550	contract	AUTHORIZATION #14
drawing	C011	rev.	1
sheet	of	sheets	
file C011 GCCS RELOCATION DETAILS, 3 OF 4.DWG			

CONFORMING
TO
CONSTRUCTION
RECORDS

Scale For Microfilming
Inches
Millimeters



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID
1	1/15/26	RCH	FJD	ClCR

NOTES:

- SLEEPERS TO BE LOCATED EVERY 10 FEET, AT HIGH POINTS IN VERTICAL ELEVATION, AT CHANGES IN HORIZONTAL DIRECTION, AT PIPE JOINTS, AND AT VALVE LOCATIONS.
- NAILS TO BE HOT DIPPED GALVANIZED.
- TIMBER MUST BE PRESSURE TREATED FOR GROUND CONTACT.
- AT CELL LINER CROSSINGS, PLACE REBAR SOIL ANCHORS TO NOT PENETRATE LINER MATERIAL.
- CONTRACTOR SHALL DRILL PILOT HOLE THROUGH TIMBER SLEEPER AND SPACERS BEFORE DRIVING NO. 5 REBAR ANCHORS. ANCHORS SHALL BE DRIVEN THROUGH SLEEPER AND SPACERS AT A 45° ANGLE.
- REBAR ANCHORS SHALL BE HAVE A MINIMUM BURIAL DEPTH OF 12". CONTRACTOR SHALL USE CAUTION TO NOT PENETRATE EXISTING LINER. ANY DAMAGE CAUSED BY CONTRACTOR SHALL BE REPAIRED IN A TIMELY MANNER AT NO COST TO OWNER.
- STEEL SPIKES SHALL BE USED TO SECURE TIMBER SLEEPERS TO TIMBER SPACER BLOCKS.

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LICENSE NO. AECC322

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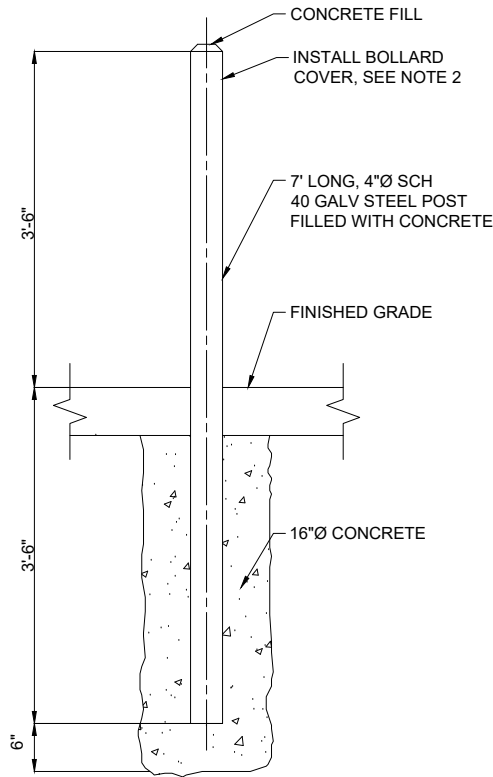
CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
GCCS RELOCATION DETAILS, 4 OF 4

project	167550	contract	AUTHORIZATION #14
drawing	C012	rev.	1
sheet	of	sheets	
file	C012 GCCS RELOCATION DETAILS, 4 OF 4.DWG		

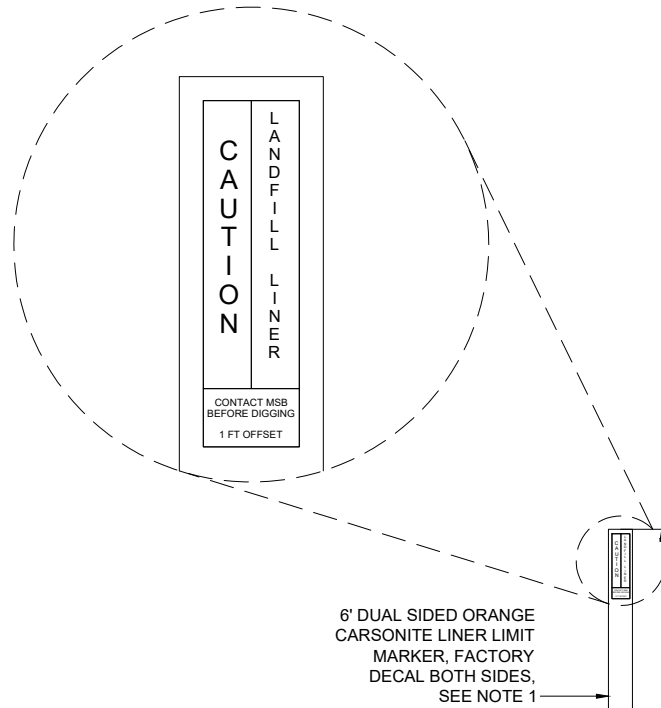
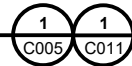
Scale For Microfilming

Inches

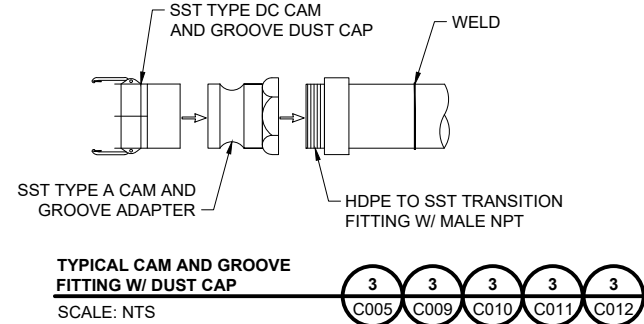
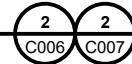
Millimeters



TYPICAL BOLLARD
SCALE: NTS



TYPICAL LANDFILL LIMIT
MARKER POST
SCALE: NTS



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID

NOTES:

- LIMIT MARKER POSTS SHALL BE PLACED EVERY 100-FEET ALONG THE CELL BOUNDARY. LIMIT MARKERS SHALL BE 1 FOOT OUTSIDE THE EDGE OF LINER BOUNDARY ON THE ACCESS ROAD PERIMETER AND 5 FEET OUTSIDE THE EDGE OF LINER BOUNDARY ON THE NORTH AND WEST SIDE OF THE CELL 2A PIGGYBACK PERIMETER.
- PROVIDE YELLOW GUARD POST COVERS MOLDED FROM A DURABLE POLYETHYLENE WITH ULTRA-VIOLET STABILIZERS TO ENSURE PRODUCT LIFE AND COLOR FASTNESS. SECURE THE POLYETHYLENE GUARD POST AND COVER OR SLEEVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDED CARSONITE SAV-T SLEEVE, THE GUARD POST COVER OR SLEEVE, OR APPROVED EQUAL.



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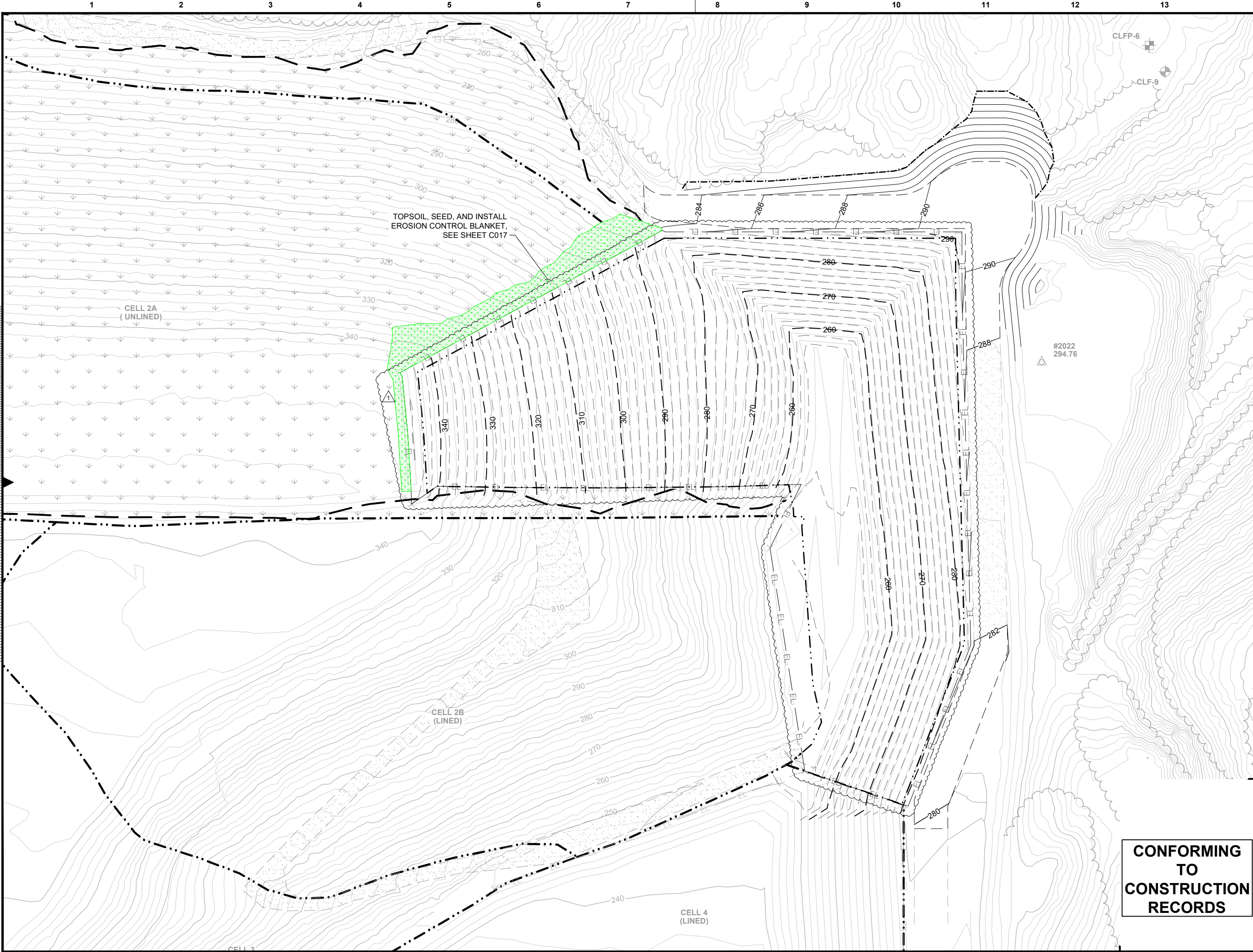


MATANUSKA-SUSITNA BOROUGH, ALASKA

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
MISCELLANEOUS CIVIL DETAILS

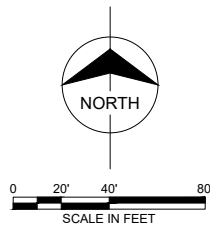
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drawing	C013	rev.	0
sheet	of	sheets	
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no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID
1	1/15/26	RCH	FJD	CiCR

- NOTES:
- EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
 - EXISTING SITE TOPOGRAPHY CREATED FROM VARIOUS SURVEYS. MOST RECENT SURVEY OF THE CELL 4 EXPANSION AREA CREATED FROM DRAFT LIDAR DATA FLOWN IN THE FALL OF 2019 BY MSB, THE ACCURACY OF THE DATA IS NOT GUARANTEED.
 - DESIGN CONTOURS REPRESENT TOP OF GRANULAR DRAINAGE MATERIAL AND ACCESS ROAD GRADES. DASHED CONTOURS REPRESENT AS-BUILT SURVEY OF TOP OF GRANULAR DRAINAGE MATERIAL.



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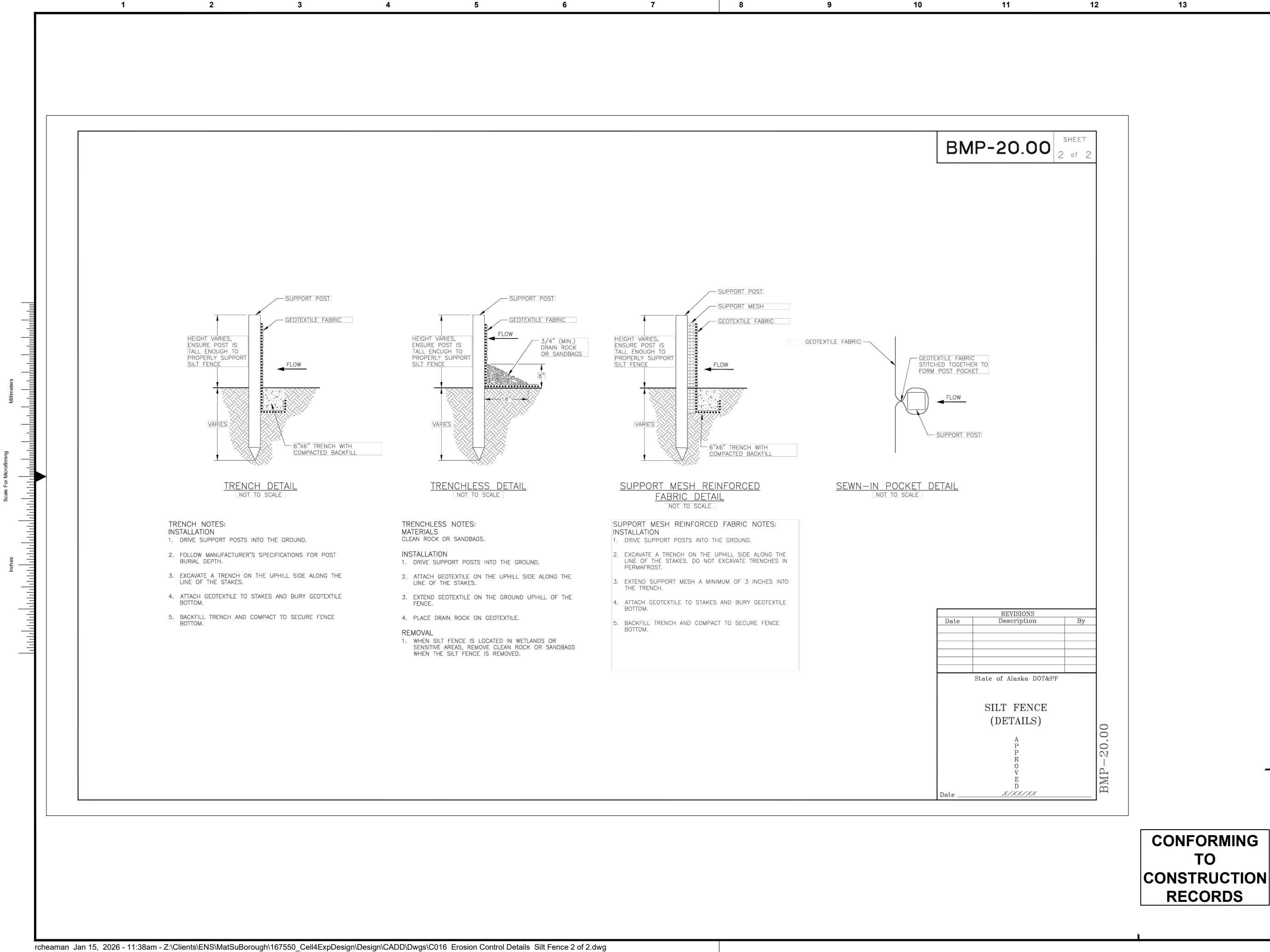
date	APRIL 2025	detailed	R. HEAMAN
designed	M. AULT	checked	F. DORAN



Matanuska-Susitna Borough, Alaska

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
EROSION CONTROL PLAN

project	167550	contract	AUTHORIZATION #14
drawing	C014	rev.	1
sheet	of	sheets	
file	C014 EROSION CONTROL PLAN.DWG		



no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID

NOTES:

1. DETAILS RETRIEVED APRIL 2024 FROM ALASKA SWPPP GUIDE, APPENDIX B - ALASKA DOT&PF BMPS DATED MARCH 2021.

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date APRIL 2025	detailed R. HEAMAN
designed M. AULT	checked F. DORAN

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CENTRAL LANDFILL (SW1A007-26) CELL 4 EXPANSION CONSTRUCTION EROSION CONTROL DETAILS, SILT FENCE 2 OF 2	
project 167550	contract AUTHORIZATION #14
drawing C016	rev. 0
sheet of	sheets
file C016 EROSION CONTROL DETAILS SILT FENCE 2 OF 2.DWG	

CONFORMING
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RECORDS

1. DETAILS RETRIEVED APRIL 2024 FROM ALASKA SWPPP GUIDE, APPENDIX B - ALASKA DOT&PF BMPS DATED MARCH 2021.



date APRIL 2025	detailed R. HEAMAN
designed M. AULT	checked F. DORAN

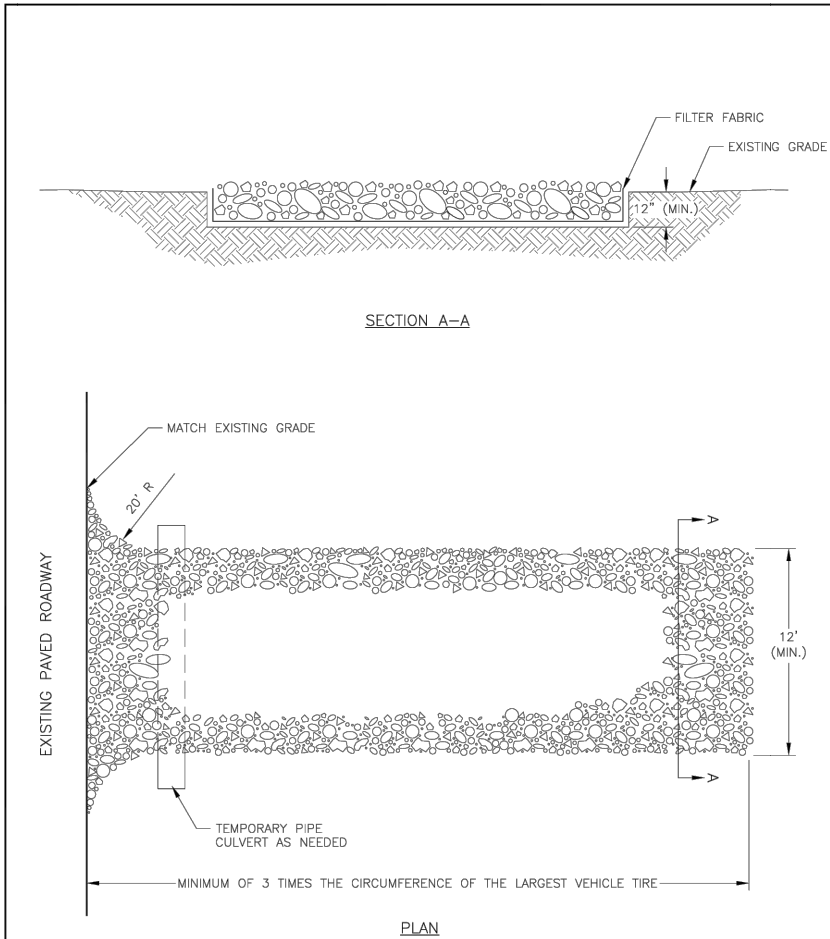
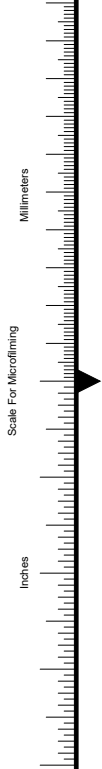


CENTRAL LANDFILL (SW1A007-26)

project 167550	contract AUTHORIZATION #14
drawing C017	rev. 0
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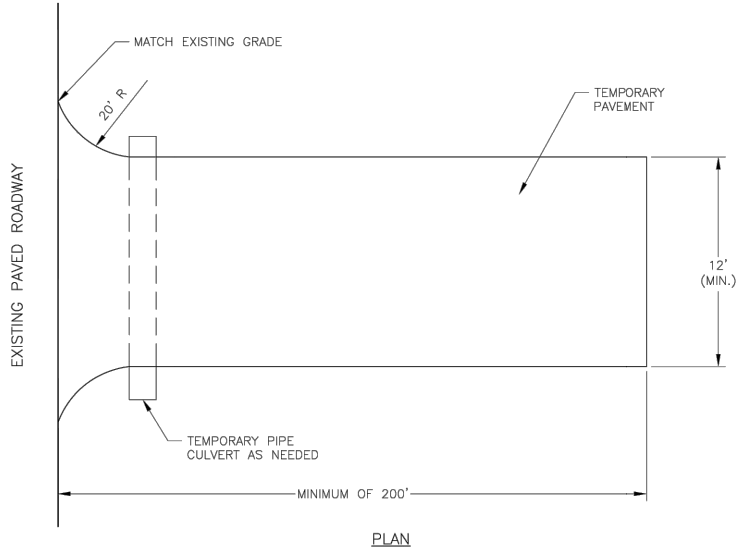
no.	date	by	ckd	description
0	4/17/25	RCH	FJD	ISSUED FOR BID

- NOTES:
- DETAILS RETRIEVED APRIL 2024 FROM ALASKA SWPPP GUIDE, APPENDIX B - ALASKA DOT&PF BMPS DATED MARCH 2021.



ROCK CONSTRUCTION EXIT
NOT TO SCALE

- ROCK CONSTRUCTION EXIT NOTES:**
- MATERIALS**
ROCK: 2- TO 3-INCH COARSE AGGREGATE OR 3- TO 6-INCH QUARRY SPALL OR ANGULAR ROCK, WHICHEVER IS APPROPRIATE TO THE PROJECT FLEET.
- INSTALLATION**
1. PLACE THE FILTER FABRIC AND ROCK TO THE SPECIFIC GRADE SHOWN ON THE PLANS.
- MAINTENANCE**
1. REMOVE ACCUMULATED SEDIMENT OR MUD.
2. REPLACE ROCK MATERIAL WHEN SURFACE VOIDS ARE FILLED WITH SEDIMENT. REPLACE FABRIC AS NEEDED.
3. TOP DRESS WITH 2 TO 3 INCHES OF COARSE AGGREGATE OR 3- TO 6-INCH COARSE ROCK WHEN THE PAD BECOMES LADEN WITH SEDIMENT.
- INSPECTION**
1. INSPECT FOR ROCK THAT HAS BEEN DISPLACED FROM THE PAD.



TEMPORARY PAVEMENT CONSTRUCTION EXIT
NOT TO SCALE

- TEMPORARY PAVEMENT CONSTRUCTION EXIT NOTES:**
- INSPECTION**
1. INSPECT TEMPORARY PAVEMENT FOR DAMAGE.
- MAINTENANCE**
1. SWEEP DESIGNATED PAVED EXIT TO PREVENT SEDIMENT TRACK-OUT.
2. REPAIR DAMAGED TEMPORARY PAVEMENT.

BMP-23.00 SHEET 1 of 2

- STABILIZED CONSTRUCTION EXIT GENERAL NOTES:**
- INSTALLATION**
- INSTALL STABILIZED CONSTRUCTION EXIT PRIOR TO EARTH WORK.
 - CLEAR THE EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER MATERIAL.
 - PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP, VEGETATIVE SEDIMENT FILTER OR OTHER PROTECTED OUTLET.
 - EXCAVATE AND GRADE THE AREA FOR ROCK PLACEMENT.
 - INSTALL SIGNS, FENCING OR BARRICADES TO CHANNEL OUTGOING TRAFFIC TO THE STABILIZED CONSTRUCTION EXIT.
- INSPECTION**
- INSPECT STABILIZED CONSTRUCTION EXIT FOR SEDIMENT ACCUMULATION AND MATERIAL DISPLACEMENT.
 - INSPECT ROADWAY FOR SEDIMENT TRACK-OUT.
 - INSPECT DITCHES TO ENSURE NO SEDIMENT ACCUMULATION.
- MAINTENANCE**
- MAINTAIN EACH EXIT IN A CONDITION THAT WILL PREVENT TRACKING OF MUD OR SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
 - REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT.
 - REMOVE ALL MUD AND SEDIMENT DEPOSITED ON PAVED ROADWAYS.
 - ADD MORE SIGNS, FENCING OR BARRICADES WHEN VEHICLES ARE EXITING THE PROJECT WITHOUT USING THE STABILIZED CONSTRUCTION EXIT. INSTALL ADDITIONAL STABILIZED CONSTRUCTION EXITS IF NEEDED, YET USE SIGNS AND BARRICADES TO MINIMIZE THE NUMBER OF STABILIZED CONSTRUCTION EXITS.
 - PREVENT TRACK-OUT BY USING ADDITIONAL BMPS, SUCH AS A TIRE WASH.
- REMOVAL**
- REMOVE THE STABILIZED CONSTRUCTION EXIT AND ANY SEDIMENT TRAPPING STRUCTURES AFTER THEY ARE NO LONGER NEEDED, OR WITH FINAL SITE STABILIZATION.
 - REGRADE AND PERMANENTLY STABILIZE THE REMAINING DISTURBED AREAS ACCORDING TO THE PLANS.

REVISIONS		
Date	Description	By
State of Alaska DOT&PF STABILIZED CONSTRUCTION EXIT (NOTES, ROCK & TEMPORARY PAVEMENT) APPROVED Date 12/2015 X/XX/XX		

BMP-23.00

**CONFORMING
TO
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RECORDS**



Burns & McDonnell Engineering Co, Inc.
LICENSE NO. AECC322

date APRIL 2025	detailed R. HEAMAN
designed M. AULT	checked F. DORAN



Matanuska-Susitna Borough, Alaska

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
EROSION CONTROL DETAILS,
STABILIZED CONSTRUCTION EXIT

project 167550	contract AUTHORIZATION #14
drawing C018	rev. 0
sheet of	sheets
file C018 EROSION CONTROL DETAILS, STAB. CONST. EXIT.DWG	