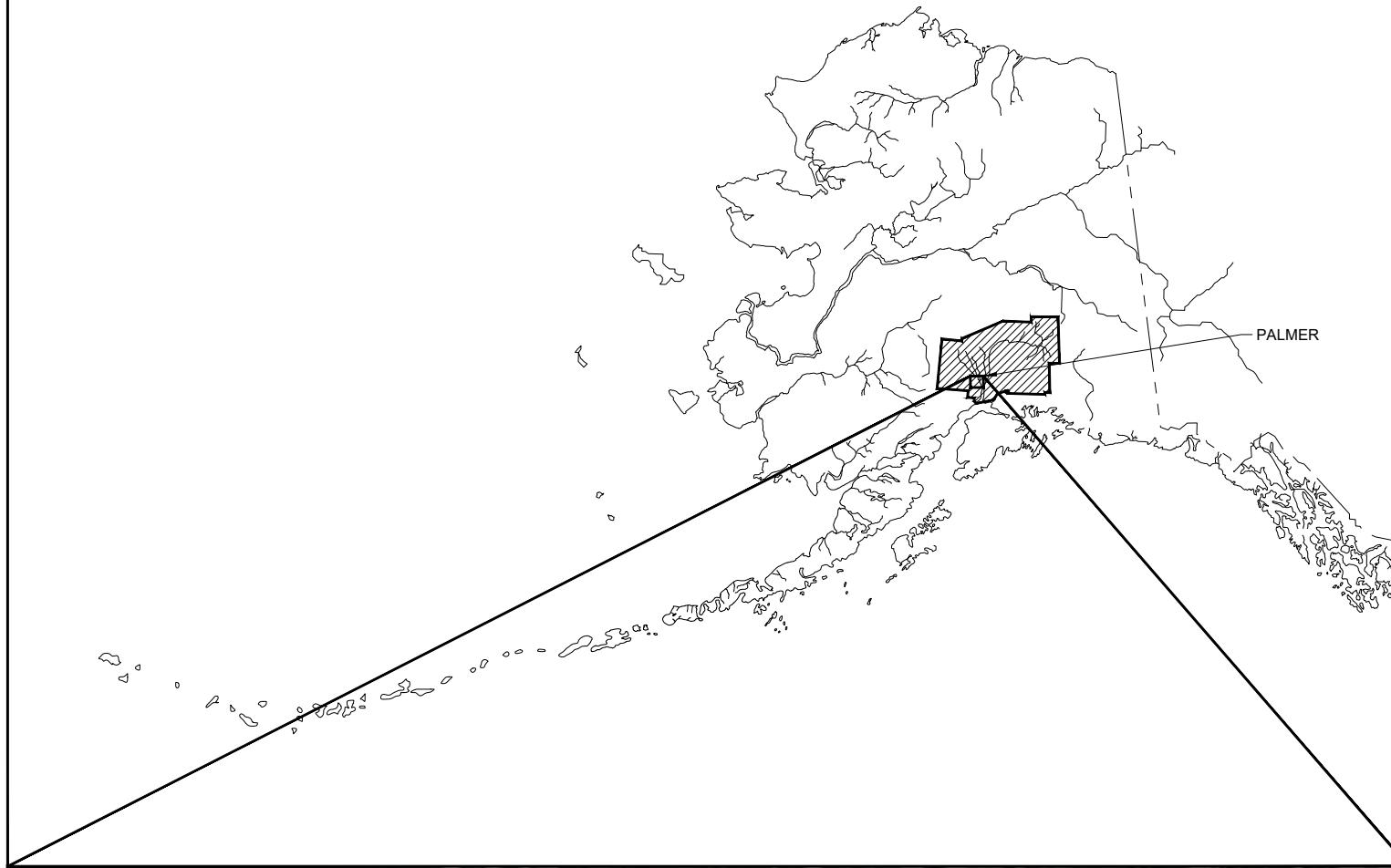
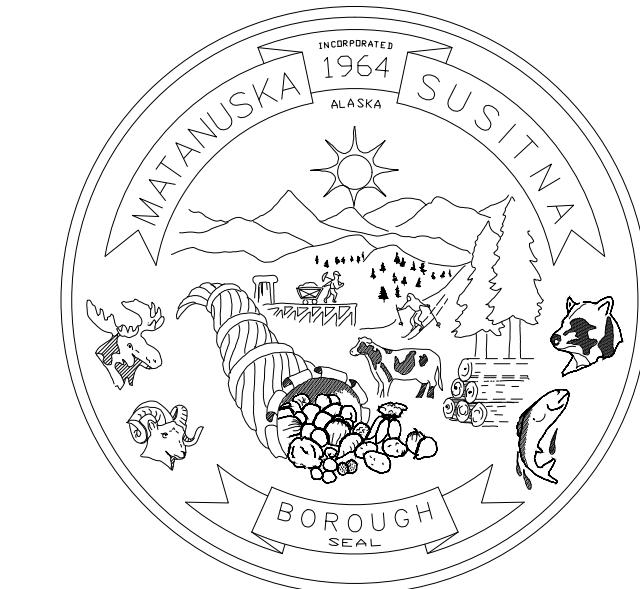


ATTACHMENT 7:
REVISED CELL 4 EXPANSION CONSTRUCTION DRAWINGS

MATANUSKA-SUSITNA BOROUGH

PUBLIC WORKS DEPARTMENT

no.	date	by	ckd	description
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CENTRAL LANDFILL CELL 4 EXPANSION CONSTRUCTION CONTRACT DRAWINGS JANUARY 2025

PROJECT NUMBER: 167550

SHEET INDEX	
SHEET	TITLE
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G001	GENERAL NOTES
G002	LEGEND & ABBREVIATIONS
G003	EXISTING CONDITIONS & CONTROL POINTS
G004	GENERAL ARRANGEMENT
C001	DEMOLITION PLAN
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C005	CONSTRUCTION DETAILS, 1 OF 3
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C008	GCCS RELOCATION PLAN
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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
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C016	EROSION CONTROL DETAILS, SILT FENCE 2 OF 2
C017	EROSION CONTROL DETAILS, EROSION CONTROL BLANKET
C018	EROSION CONTROL DETAILS, STAB. CONST. EXIT



REVIEWED BY:

BOROUGH ENGINEER

no.	date	by	ckd	description
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GENERAL NOTES

- THE CENTRAL LANDFILL IS LOCATED AT 1201 N 49TH STATE STREET, PALMER, ALASKA 99645.
- CONTRACTOR SHALL CONTRACT WITH MATANUSKA-SUSITNA (MAT-SU) BOROUGH (OWNER) DIRECTLY TO PERFORM WORK.
- CONTRACTOR SHALL PROVIDE LIABILITY INSURANCE NAMING OWNER, OPERATOR, BURNS & MCDONNELL ENGINEERING COMPANY (ENGINEER), AND ENGINEER'S SUBCONTRACTORS AS AN ADDITIONAL INSURED.
- THE LOCATIONS OF EXISTING UTILITIES AND EASEMENTS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES AND EASEMENTS WHETHER OR NOT SHOWN TO PROTECT THEM FROM DAMAGE. WHERE A UTILITY OR EASEMENT IS ABANDONED OR REQUIRES TO BE PROTECTED, THE CONTRACTOR SHALL PROVIDE PROTECTION THAT AT MINIMUM MEETS THE REQUIREMENTS OF THE UTILITY OR EASEMENT OWNER. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR, REPLACEMENT, OR ANY OTHER CHARGES RELATED TO EXISTING UTILITIES OR EASEMENTS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL ALASKA DIGLINE, INC AT 1-800-478-3121 OR 811.
- THE WORK UNDER THIS CONTRACT SHALL INCLUDE FURNISHING ALL SUPERVISION, LABOR, TOOLS, EQUIPMENT, TRANSPORTATION, STORAGE FACILITIES, SERVICES, AND SUPPLIES REQUIRED TO COMPLETE THE FOLLOWING AS INDICATED ON THE CONSTRUCTION DRAWINGS:
 - CONSTRUCTION OF CELL 4 EXPANSION, INCLUDING STRIPPING AND STOCKPILING TOPSOIL AND COVER SOILS FROM PHASE 2A FINAL COVER AND AREA OF CELL 4 EXPANSION, COMPLETING EARTHWORK NECESSARY TO ESTABLISH CELL 4 EXPANSION SUBGRADE, INSTALLING GEOSYNTHETIC CLAY LINER, GEOMEMBRANE LINER, GEOTEXTILE, LEACHATE COLLECTION PIPING, GAS COLLECTION LATERAL PIPING, GRANULAR DRAINAGE LAYER, AND RELATED ITEMS.
 - CONSTRUCT PERIMETER ACCESS ROAD AND STORMWATER DITCHES.
 - RELOCATION OF EXISTING LANDFILL GAS COLLECTION AND CONTROL SYSTEM PIPING.
 - ANY OTHER WORK NOT SPECIFIED ABOVE REQUIRED IN THE CONSTRUCTION DRAWINGS.
- THE CONSTRUCTION DRAWINGS REPRESENT THE FINISHED WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION. CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS, AND TOOLS NECESSARY TO COMPLETELY PERFORM THE WORK IN SAFE, EXPEDITIOUS, AND WORKMAN LIKE MANNER. COORDINATE SCHEDULE OF THE WORK WITH THE OWNER. CONTRACTOR SHALL INSTALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR PROPER HANDLING AND INSTALLATION OF EQUIPMENT AND MATERIALS.
- THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY SHOP DRAWINGS PROVIDED BY SUPPLIERS. ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE FABRICATION OF MATERIAL OR THE PURCHASE OF NON-RETURNABLE STOCK. DIMENSIONAL REVIEW IS THE CONTRACTOR'S RESPONSIBILITY.
- LANDFILL CONSTRUCTION EQUIPMENT OPERATIONS WILL BE LIMITED TO THE FOLLOWING TIMES: MONDAY THROUGH SATURDAY FROM 8 AM - 5 PM. NON-EQUIPMENT HOURS WILL BE LIMITED TO 7 AM - 6 PM MONDAY THROUGH SATURDAY. FURTHER, NO WORK SHALL BE COVERED PRIOR TO COMPLETION OF REQUIRED TESTING, SURVEYING AND ENGINEER'S INSPECTION. UNAPPROVED WORK SHALL BE UNCOVERED AT CONTRACTOR'S EXPENSE.
- SITE TOPOGRAPHY MAY VARY DUE TO OWNER'S CONSTRUCTION, DAILY COVER MATERIAL STOCKPILING, AND WASTE DISPOSAL.
- EXISTING ROADS, STRUCTURES, FACILITIES AND LANDFILL OPERATIONS SHALL NOT BE INTERFERED WITH BY CONTRACTOR'S ACTIVITIES. NORMAL LANDFILL OPERATIONAL HOURS ARE 8 AM - 5 PM MONDAY THROUGH SUNDAY. COORDINATE ACTIVITIES WITH LANDFILL OWNER/OPERATOR IF OPERATION DISRUPTION IS EXPECTED. UNLESS REQUIRED BY THE PROJECT, ANY DISTURBANCE TO EXISTING FEATURES SHALL BE REPAIRED AT NO COST TO OWNER.
- CONTRACTOR SHALL UNDERTAKE ALL NECESSARY MEASURES TO ENSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLAIMS RESULTING FROM HIS/HER ACTIONS AND ACTIVITIES. VISITS TO THE SITE BY OWNER, ENGINEER OR ENGINEER'S SUBCONTRACTORS SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SAFEGUARDING OF THE INSTALLATION AND MATERIALS AND EQUIPMENT STORED ON THE SITE TO PREVENT THEFT, VANDALISM, OR DAMAGE. THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR EQUIPMENT AND MATERIALS THROUGH PROJECT COMPLETION. CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN A SECURE LOCATION (ON OR OFF-SITE).
- CONTRACTOR SHALL PROTECT THE WORK AREAS WITH THE APPROPRIATE FENCING, BARRICADES, AND SIGNAGE. CONTRACTOR SHALL COORDINATE WORK PROTECTION AREA REQUIREMENTS CONTROL WITH OWNER.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- UNKNOWN SITUATIONS OR CONDITIONS NOT COVERED IN THESE INSTRUCTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ENGINEER AND MANUFACTURER'S SPECIALISTS MAY BE AVAILABLE FOR CONSULTATION. THE PRESENCE OF THE ENGINEER OR THE MANUFACTURER'S REPRESENTATIVE AT THE PROJECT SITE DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR A PROPER INSTALLATION.
- ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE

Scale for Microfilming

Millimeters

Inches

EROSION CONTROL NOTES

- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY THE CONSTRUCTION DRAWINGS. ADDITIONAL BMP'S SHALL BE IMPLEMENTED AS DICTATED BY THE SITE CONDITIONS THROUGHOUT ALL PHASES OF CONSTRUCTION.
- TEMPORARY EROSION AND SEDIMENT CONTROLS: FURNISH, INSTALL, CONSTRUCT, AND MAINTAIN TEMPORARY MEASURES TO CONTROL EROSION AND MINIMIZE THE SILTATION OF CONVEYANCE FEATURES AND THE POLLUTION OF PRIVATE PROPERTIES. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL COMPLETION OF THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF ALL SEDIMENT CONTROL PRACTICES REQUIRED AS A RESULT OF HIS/HER ACTIVITIES. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS NOTED OTHERWISE. THE SEDIMENT CONTROL PRACTICES INDICATED IN THE CONTRACT DRAWINGS ARE NOT INTENDED TO BE INCLUSIVE OF ALL SEDIMENT CONTROL PRACTICES REQUIRED TO BE COMPLETED FOR THIS PROJECT.
- PROVIDE AND MAINTAIN ALL EROSION CONTROL FEATURES NECESSARY TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL, AND JURISDICTIONAL AGENCY'S EROSION CONTROL-RELATED REGULATIONS THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL REMOVE EROSION CONTROL FEATURES IF SAID FEATURES ARE NOT BIODEGRADABLE.
- BMP'S AND CONTROLS SHALL CONFORM TO THE REQUIREMENTS OF THE ALASKA DEPARTMENT OF TRANSPORTATION. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- CONTRACTOR IS REQUIRED TO COMPLY WITH THE TERMS AND CONDITIONS CONTAINED WITHIN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
- CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- ALL WASH WATER (VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAILED AND PROPERLY TREATED OR DISPOSED.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. THESE SUCH MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM DISCHARGE INTO CONVEYANCE FEATURES OR WATERS OF THE STATE. DISPOSAL OF SOLID WASTE SHALL BE COORDINATED WITH OWNER.
- ALL STORMWATER POLLUTION PREVENTION MEASURES PRESENTED IN THE CONSTRUCTION DRAWINGS SHALL BE INITIATED AS SOON AS PRACTICABLE.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE SEDIMENTATION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORMWATER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- SOIL STOCKPILE AND BORROW AREAS RESULTANT FROM CONTRACTOR'S ACTIVITIES SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BMP'S AND SEEDING.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES IN ORDER TO PREVENT EROSION.
- THE PERIMETER OF ANY STOCKPILE AREAS SHALL BE LINED WITH SEDIMENT FENCE.
- THE INTEGRITY OF WETTED PERIMETER FOR PERIMETER AND DIVERSION DITCHES SHALL BE MAINTAINED AT ALL TIMES.
- FUELING OF CONTRACTOR EQUIPMENT SHALL BE CONDUCTED IN A CONTAINED AREA.
- STORAGE OF FUELS AND HAZARDOUS MATERIALS SHALL BE DONE IN SUCH A WAY AS TO MINIMIZE THE POTENTIAL OF SPILLS. CONTRACTOR SHALL PROVIDE AND INSTALL THEIR OWN SPILL CONTAINMENT DEVICES OR STRUCTURES.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL, INCLUDING DIESEL FUEL FOR CONTRACTOR EQUIPMENT USE ONSITE, SHALL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, AS REQUIRED. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- CONCRETE WASHOUT SHALL BE COORDINATED WITH THE OWNER.
- ALL DISTURBED AREAS SHALL BE RETURNED TO PRE-EXISTING CONDITIONS INCLUDING GRADING AND DRAINAGE AREAS.


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date JANUARY 2025 detailed R. HEAMAN

designed M. AULT checked F. DORAN


 MATANUSKA-SUSITNA BOROUGH, ALASKA
CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
GENERAL NOTES

project 167550 contract AUTHORIZATION #14

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 A handwritten signature in blue ink that reads "Fred V. Doran" and "PROFESSIONAL ENGINEER" below it. The date "1/15/2025" is written at the bottom right of the signature.

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LEGEND

Scale For Microfilm

Millimeters

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Inches

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Inches

PLAN:		SECTION:	
CLF-9	ACTIVE MONITORING WELL		ALUMINUM
CLF-1	INACTIVE MONITORING WELL		CONCRETE
CP	SURVEY CONTROL POINT		GRAVEL / AGGREGATE
CLFP-1	LANDFILL GAS MONITORING PROBE		TOP SOIL
GV-1	LANDFILL GAS VENT		GENERAL FILL
GW-1	LANDFILL GAS WELL		EXISTING REFUSE AND DAILY COVER
RW 3-1	VERTICAL RECIRCULATION WELL		INTERMEDIATE COVER
	POWER POLE		EXISTING COVER SOIL
	LIGHT FIXTURE		GRANULAR DRAINAGE MATERIAL
	BUILDING/STRUCTURE		CUSHION / SAND
	EXISTING 2 FOOT CONTOURS		PIPE INSULATION
	EXISTING 10 FOOT CONTOURS		NATIVE SOIL
	DESIGN 2 FOOT CONTOURS		REMOVE AND/OR SALVAGE EXISTING FEATURE
	DESIGN 10 FOOT CONTOURS		GRASS / NATIVE VEGETATION
	EXISTING FENCE		EXISTING GROUND SURFACE
	PROPERTY BOUNDARY		GEOMEMBRANE LINER
	CONSTRUCTION LIMITS		GEOTEXTILE FILTER / CUSHION
	PAVED ROAD		GEOCOMPOSITE DRAINAGE NET
	UNPAVED ROAD		GCL (GEOSYNTHETIC CLAY LINER)
	OHE		PLYWOOD
	OVERHEAD ELECTRIC		EROSION CONTROL MATTING
	UE		
	UNDERGROUND ELECTRIC		
	GCCS		
	EXISTING GAS COLLECTION AND CONTROL SYSTEM PIPING		
	GCCS		
	GAS COLLECTION AND CONTROL SYSTEM PIPING		
	GL		
	EXISTING GAS LATERAL PIPING		
	GL		
	GAS LATERAL PIPING		
	4" CONDENSATE FORCE MAIN		
	LCP		
	EXISTING LEACHATE COLLECTION PIPING		
	LCP		
	LEACHATE COLLECTION PIPING		
	RL		
	EXISTING LEACHATE RECIRCULATION LATERAL		
	EL		
	EXISTING EDGE OF LINER		
	EL		
	EDGE OF LINER		
	EL		
	CELL BOUNDARY		
	CHANNEL DRAIN		
	EDGE OF ROAD		
	SILT FENCE		
	EXISTING CELL 2A SUBDRAIN PIPE		
	TRAILS		
	BURIED CULVERT		
	TREE LINE		
	FINAL COVER		
	WETLANDS		

PLAN:		SECTION:	
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	GCCS		
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	GCCS		
	GAS COLLECTION AND CONTROL SYSTEM PIPING		
	GL		
	EXISTING GAS LATERAL PIPING		
	GL		
	GAS LATERAL PIPING		
	4" CONDENSATE FORCE MAIN		
	LCP		
	EXISTING LEACHATE COLLECTION PIPING		
	LCP		
	LEACHATE COLLECTION PIPING		
	RL		
	EXISTING LEACHATE RECIRCULATION LATERAL		
	EL		
	EXISTING EDGE OF LINER		
	EL		
	EDGE OF LINER		
	EL		
	CELL BOUNDARY		
	CHANNEL DRAIN		
	EDGE OF ROAD		
	SILT FENCE		
	EXISTING CELL 2A SUBDRAIN PIPE		
	TRAILS		
	BURIED CULVERT		
	TREE LINE		
	FINAL COVER		
	WETLANDS		

ABBREVIATIONS

ADEC	ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION	MAX	MAXIMUM
AKDOT	ALASKA DEPARTMENT OF TRANSPORTATION	MIL	MILLI-INCH
APPROX. ~	APPROXIMATE, APPROXIMATELY	MAX. MSB	MINIMUM MATANUSKA-SUSITNA BOROUGH
BMP	BEST MANAGEMENT PRACTICE	N	NORTHING
C&D	CONSTRUCTION AND DEMOLITION	NO.	NUMBER
CCO	CONDENSATE CLEANOUT	NPT	NATIONAL PIPE THREAD
CL	CENTER LINE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CLF	CENTRAL LANDFILL	OZ	OUNCE
CP	CONTROL POINT	PCF	POUNDS PER CUBIC FOOT
CS	CONDENSATE SUMP	PERF	PERFORATED
DEG. °	DEGREE	PVC	POLYVINYL CHLORIDE
DIA. OR Ø	DIAMETER	RGW	REMOTE GAS WELL
DWG	DRAWING	RL	RECIRCULATION LATERAL
E	EASTING	RW	RECIRCULATION WELL
ESMT	EASEMENT	SCH	SCHEDULE
EW	EACH WAY	SDR	STANDARD DIMENSION RATIO
FT	FEET	SST / S.S.	STAINLESS STEEL
GALV	GALVANIZED	ST.	STREET
GCCS	LANDFILL GAS COLLECTION & CONTROL SYSTEM	SUBD	SUBDIVISION
GCL	GEOSYNTHETIC CLAY LINER	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
GCO	GAS CLEANOUT	TYP.	TYPICAL
GDN	GEOCOMPOSITE DRAINAGE NET	UE	UNDERGROUND ELECTRIC
GL	GAS LATERAL	W/	WITH
GV	GAS VENT		
GW	GAS WELL		
HDPE	HIGH DENSITY POLYETHYLENE		
IPS	IRON PIPE SIZE		
LCO	LEACHATE CLEANOUT		
LCP	LEACHATE COLLECTION PIPE		
L.F., LF	LINEAR FEET		
LFG	LANDFILL GAS		
LLDPE	LINEAR LOW DENSITY POLYETHYLENE		

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

MATANUSKA-SUSITNA BOROUGH, ALASKA
CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
LEGEND & ABBREVIATIONS

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OTES:

1. EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
2. HORIZONTAL DATUM AND VERTICAL DATUM IS ALASKA STATE PLANE COORDINATE SYSTEM ZONE 4, NAD83(2011). VERTICAL DATUM IS NAVD88 DERIVED FROM NAD83 AND GEOID12B BASED ON OPUS PROCESSING OF CONTROL POINT #100, VERIFIED WITH ADDITIONAL OPUS SOLUTION ON MISCELLANEOUS CONTROL.
3. CONTROL POINTS PROVIDED BY MSB. ENGINEER OF RECORD HAS NOT VERIFIED PROVIDED SURVEY POINTS AND IS NOT CERTIFYING SURVEY ACCURACY.
4. IMAGERY RETRIEVED FROM ESRI SERVICES ON JULY 4, 2024



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JANUARY 2025 | R. HEAMAN

designed checked



MATANUSKA-SUSITNA BOROUGH, ALASKA

CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
EXISTING CONDITIONS & CONTROL POINTS

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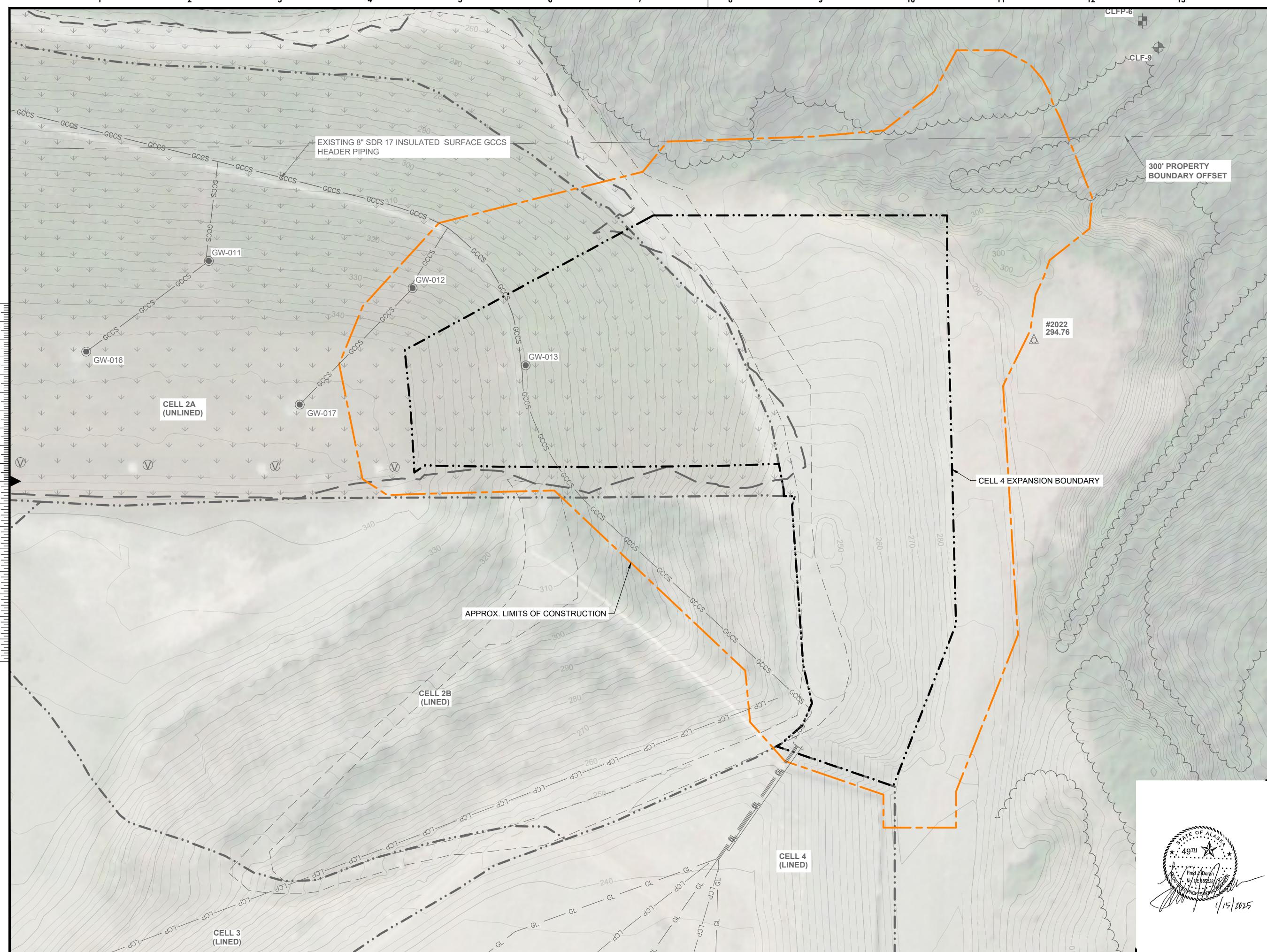
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OTES:

1. EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
2. 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.
3. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH LANDFILL OPERATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING SITE FEATURES.
5. CONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR TO LIMIT ACTIVITIES TO AREAS NECESSARY TO COMPLETE THE WORK.
6. CONTRACTOR STAGING AREA TO BE COORDINATED WITH OWNER.



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JANUARY 2025

M. AULT | F. DORAN



Matanuska-Susitna Borough, Alaska

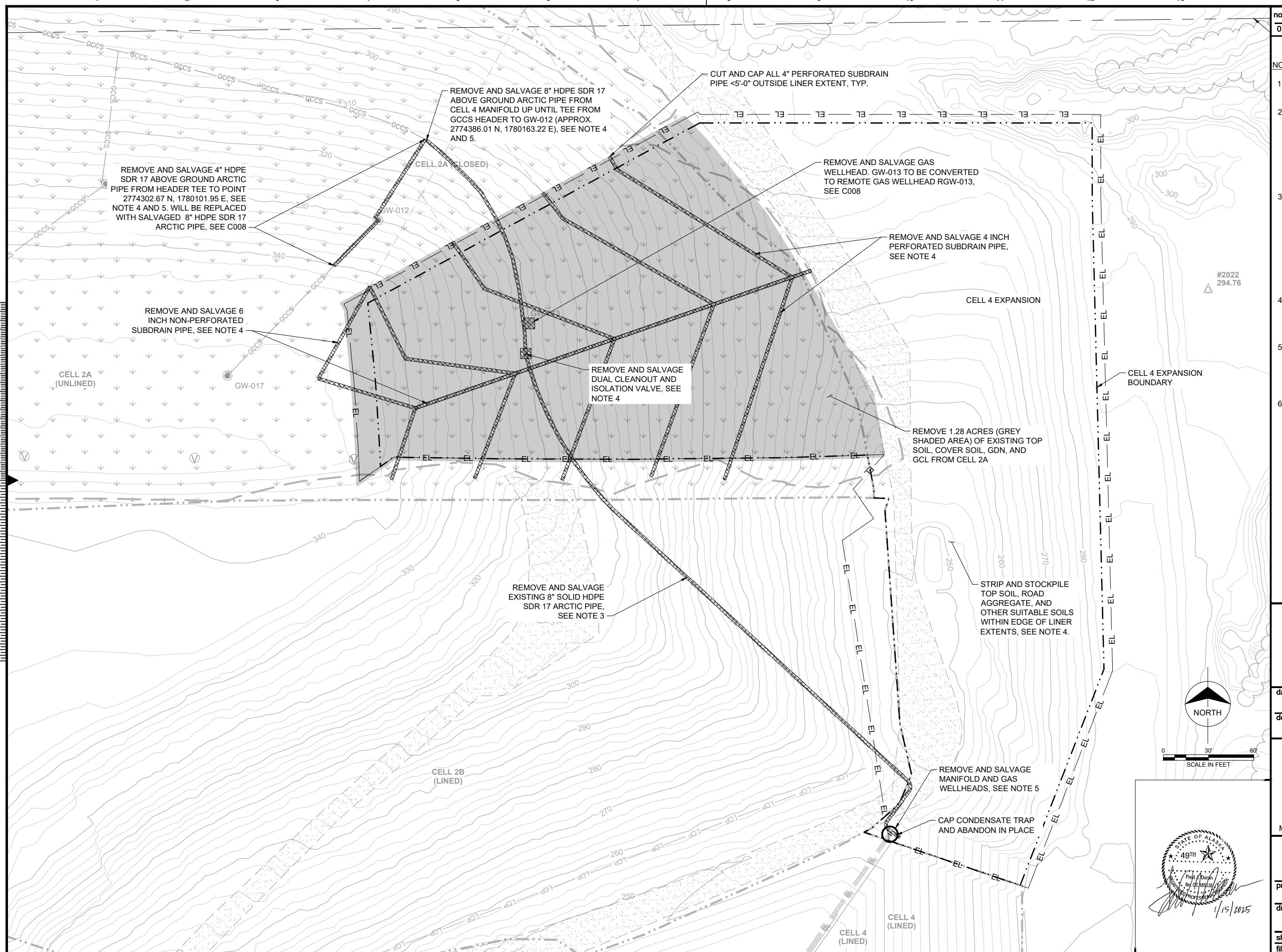
CENTRAL LANDFILL (SW1A007-26)
ELL 4 EXPANSION CONSTRUCTION
GENERAL ARRANGEMENT

contract
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date	by	ckd	description
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TES:

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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1 JANUARY 2025 | **detailed** R. HEAMAN

checked

Page 1 of 1



NUSKA-SUSITNA BOROUGH, ALASKA

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

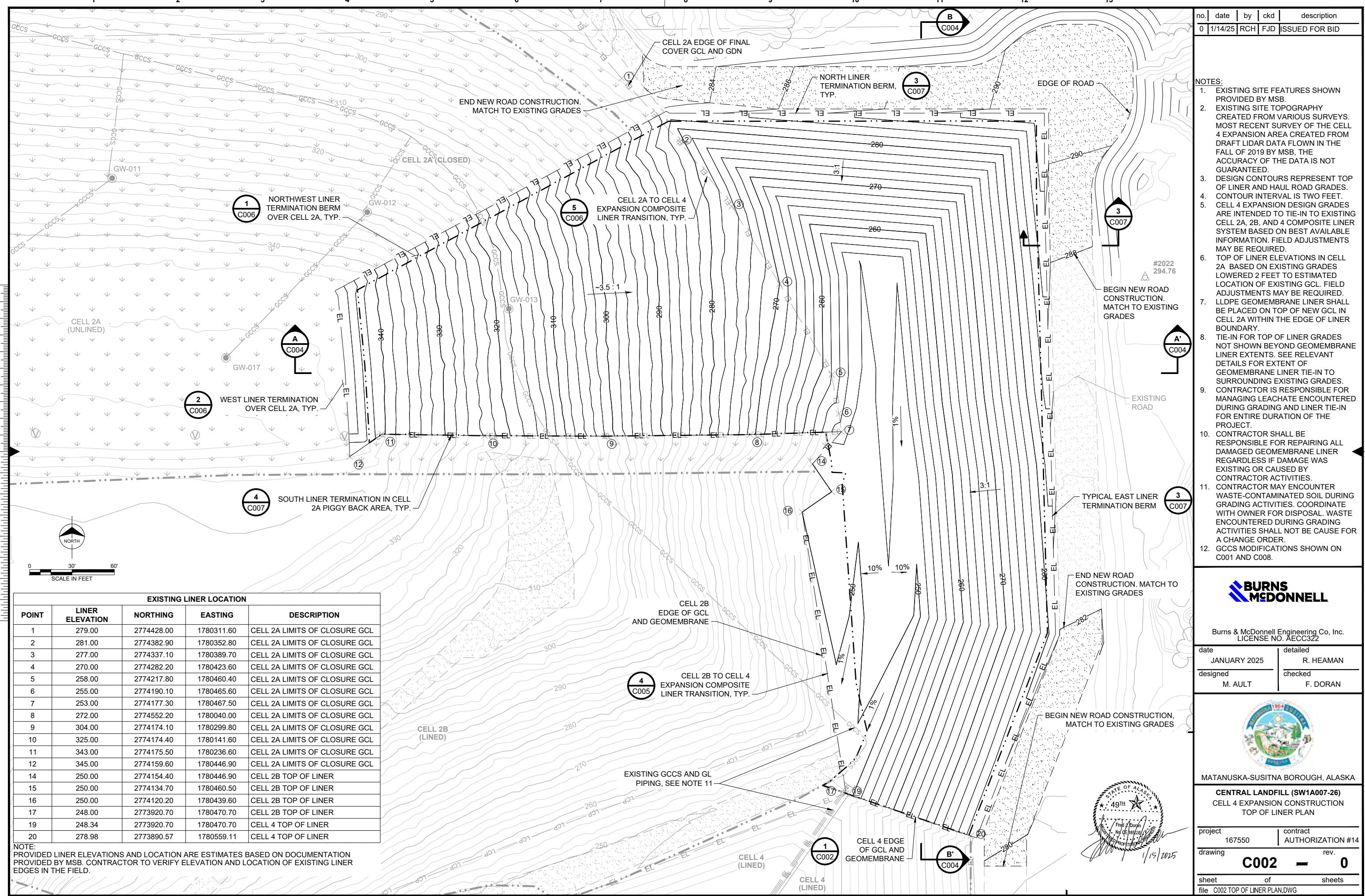
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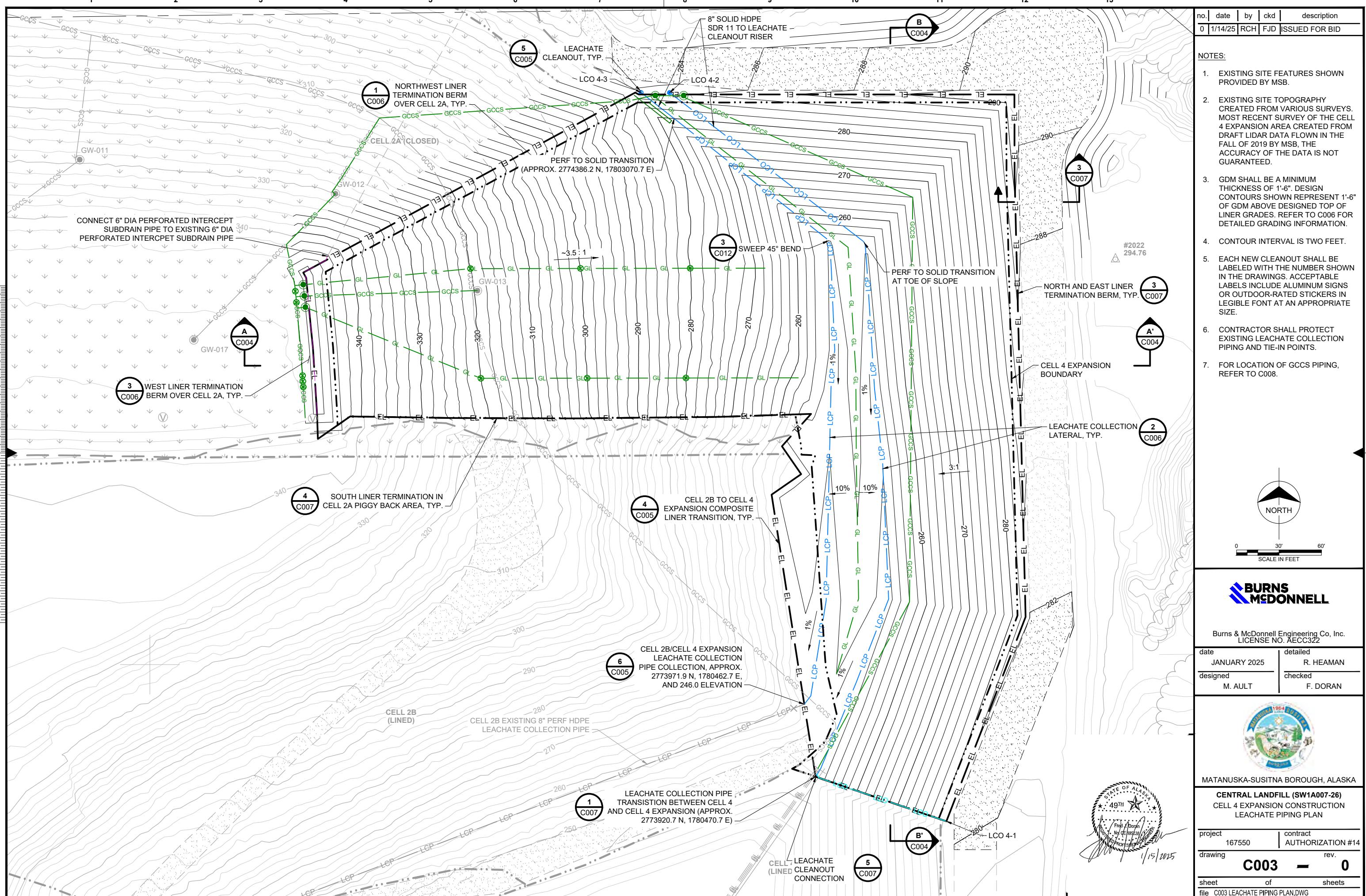
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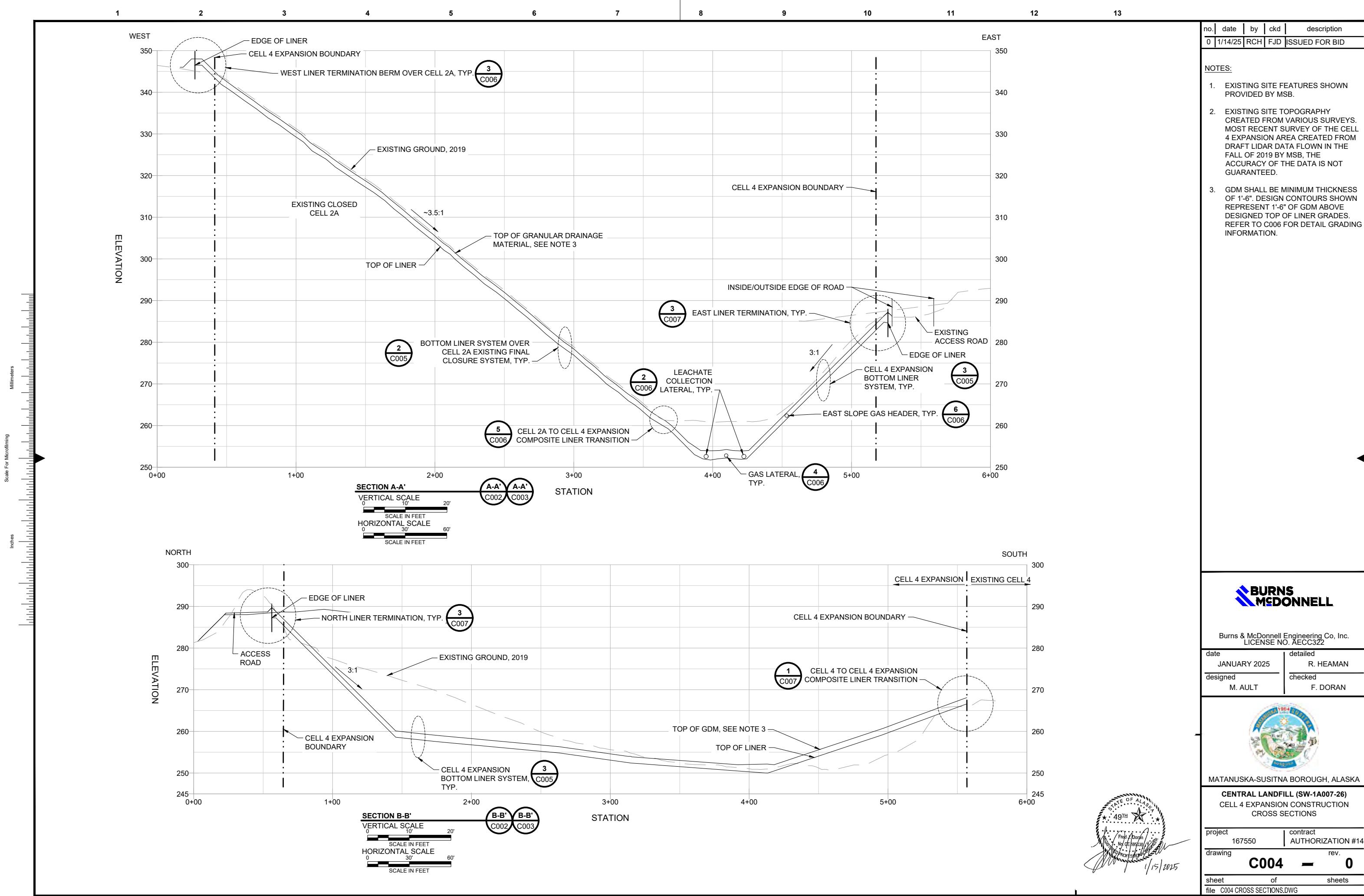
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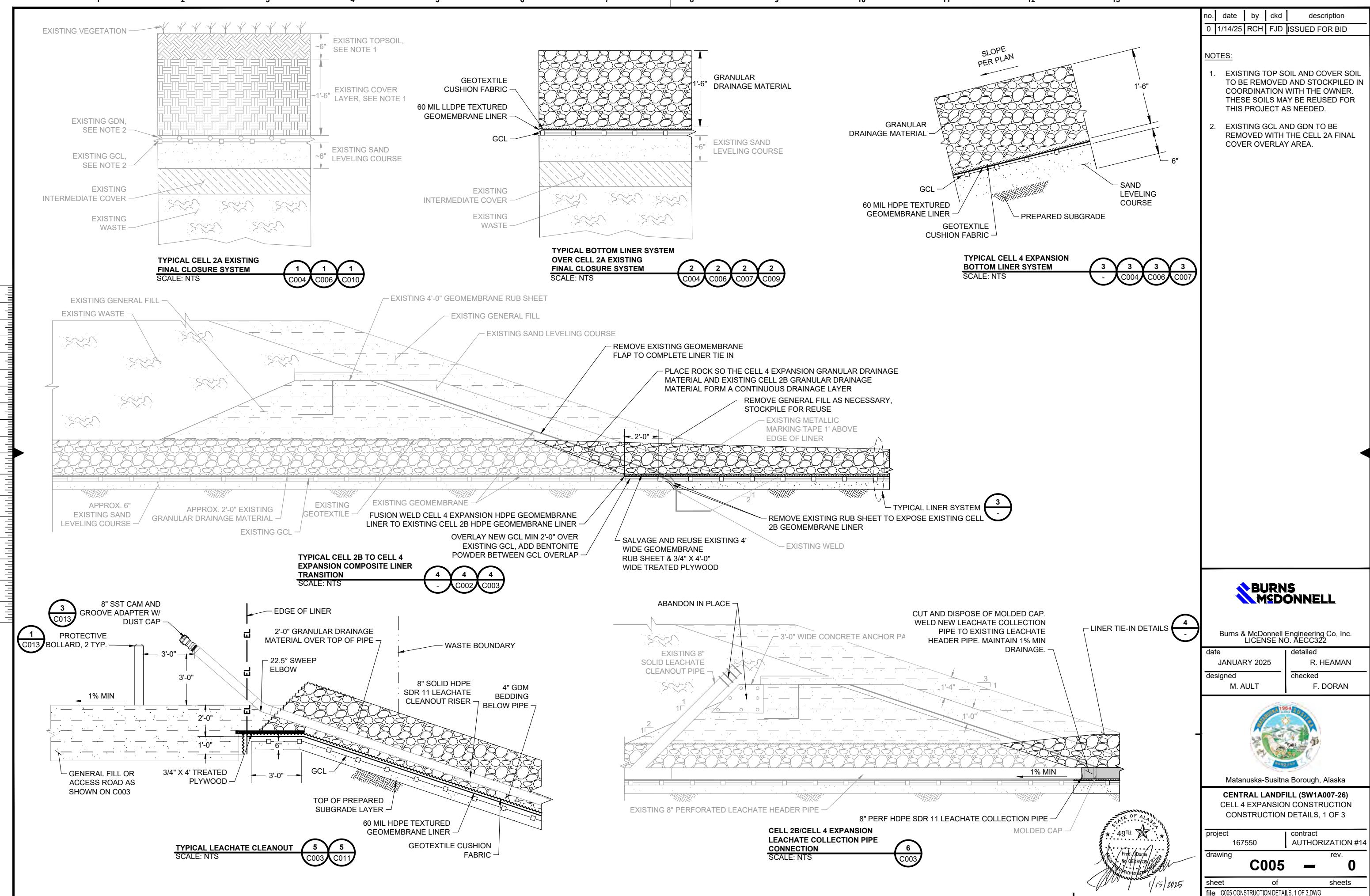
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51 DEMOLITION.DWG



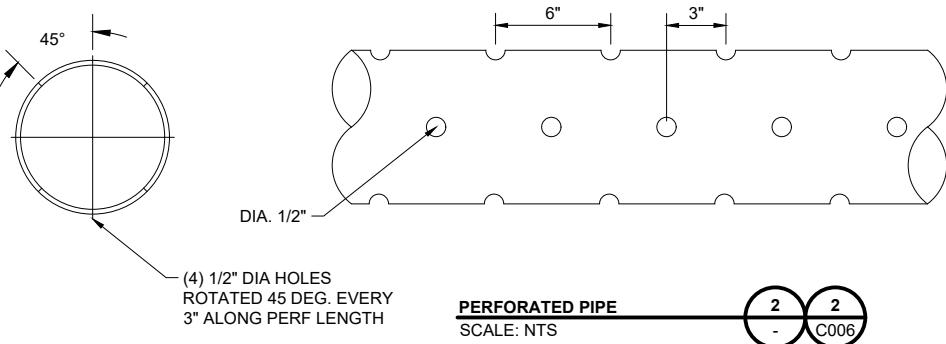
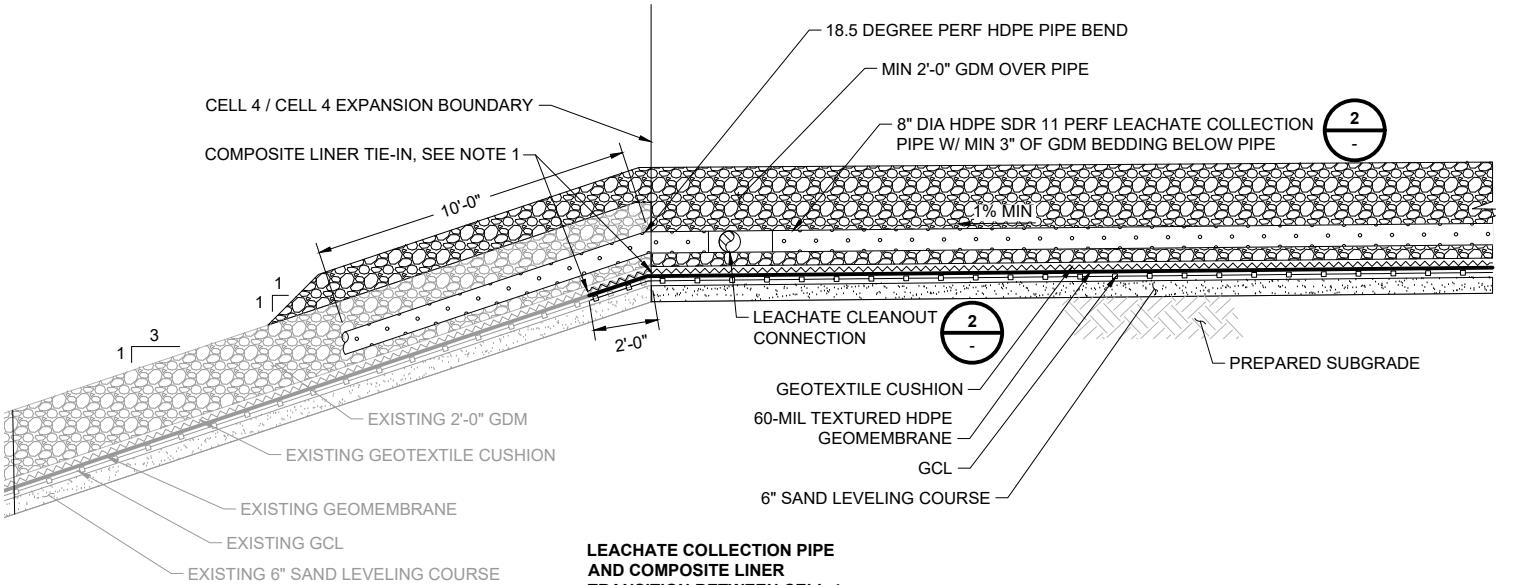




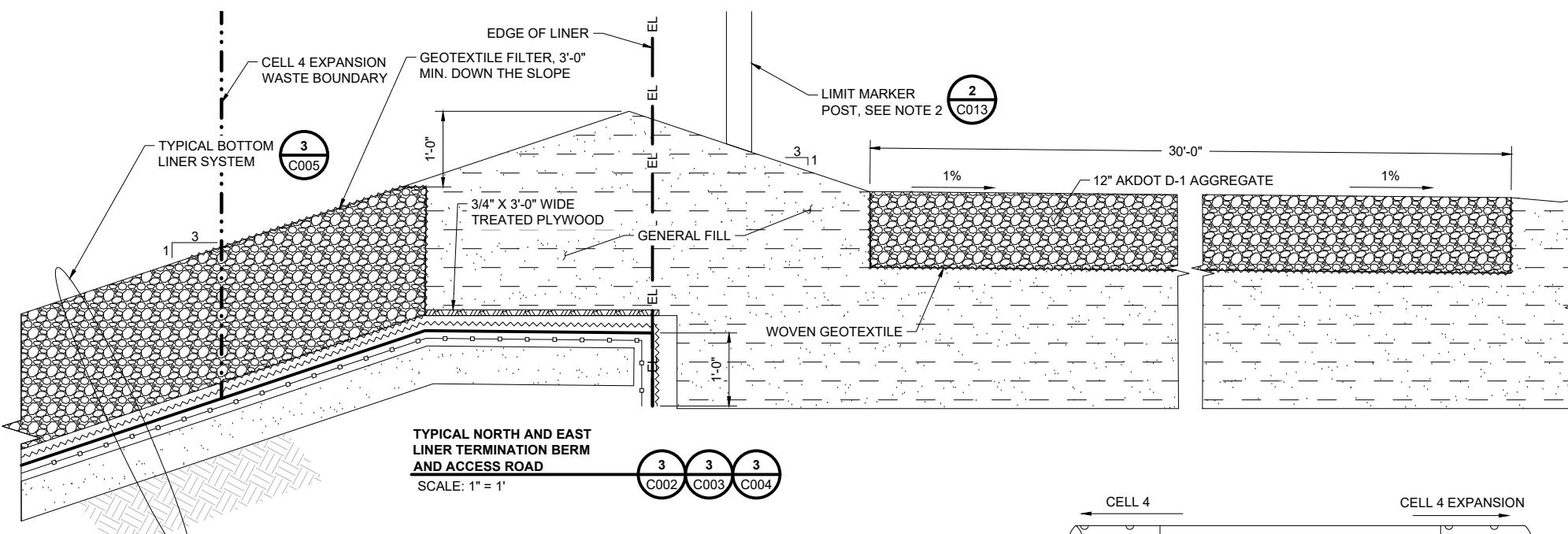


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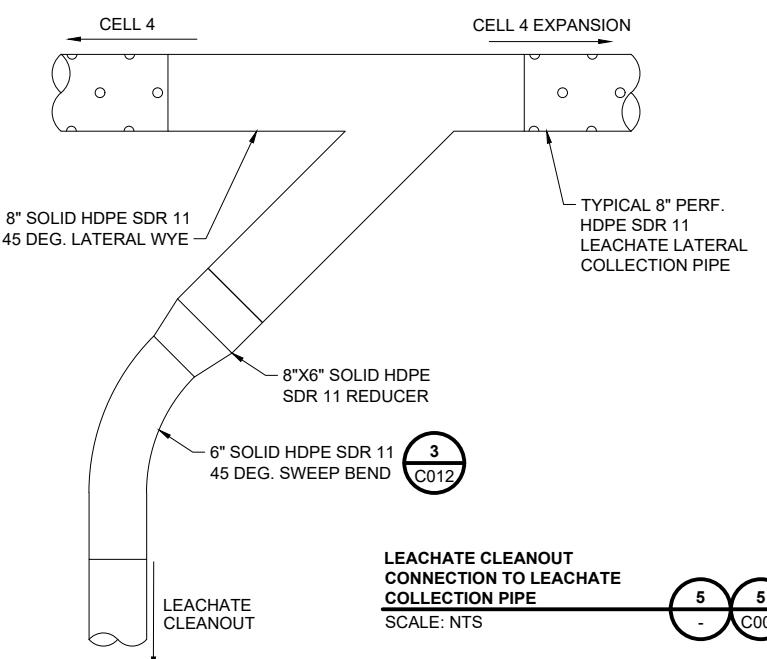
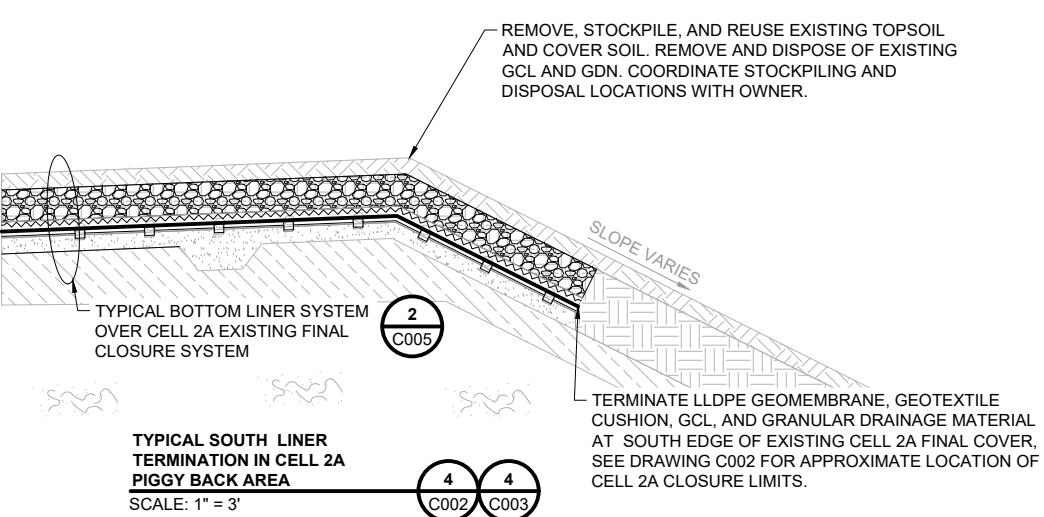
- UNCOVER EXISTING NORTHERN EDGE OF CELL 4 GEOMEMBRANE. EXPOSE A MINIMUM OF 2'-0" OF EXISTING GCL. OVERLAY NEW GCL ON TOP OF EXISTING GCL WITH A MINIMUM OF 2'-0" OVERLAP. PLACE POWERED BENTONITE BETWEEN GCL OVERLAP. FUSION WELD EXISTING GEOMEMBRANE AND NEW GEOMEMBRANE TOGETHER.
- LIMIT MARKER POSTS SHALL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



LEACHATE COLLECTION PIPE AND COMPOSITE LINER TRANSITION BETWEEN CELL 4 AND CELL 4 EXPANSION
SCALE: 1" = 3'
C002 C003 C004



TYPICAL NORTH AND EAST LINER TERMINATION BERM AND ACCESS ROAD
SCALE: 1" = 1'
C002 C003 C004



LEACHATE CLEANOUT CONNECTION TO LEACHATE COLLECTION PIPE
SCALE: NTS
5 - C003

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designed M. AULT checked F. DORAN



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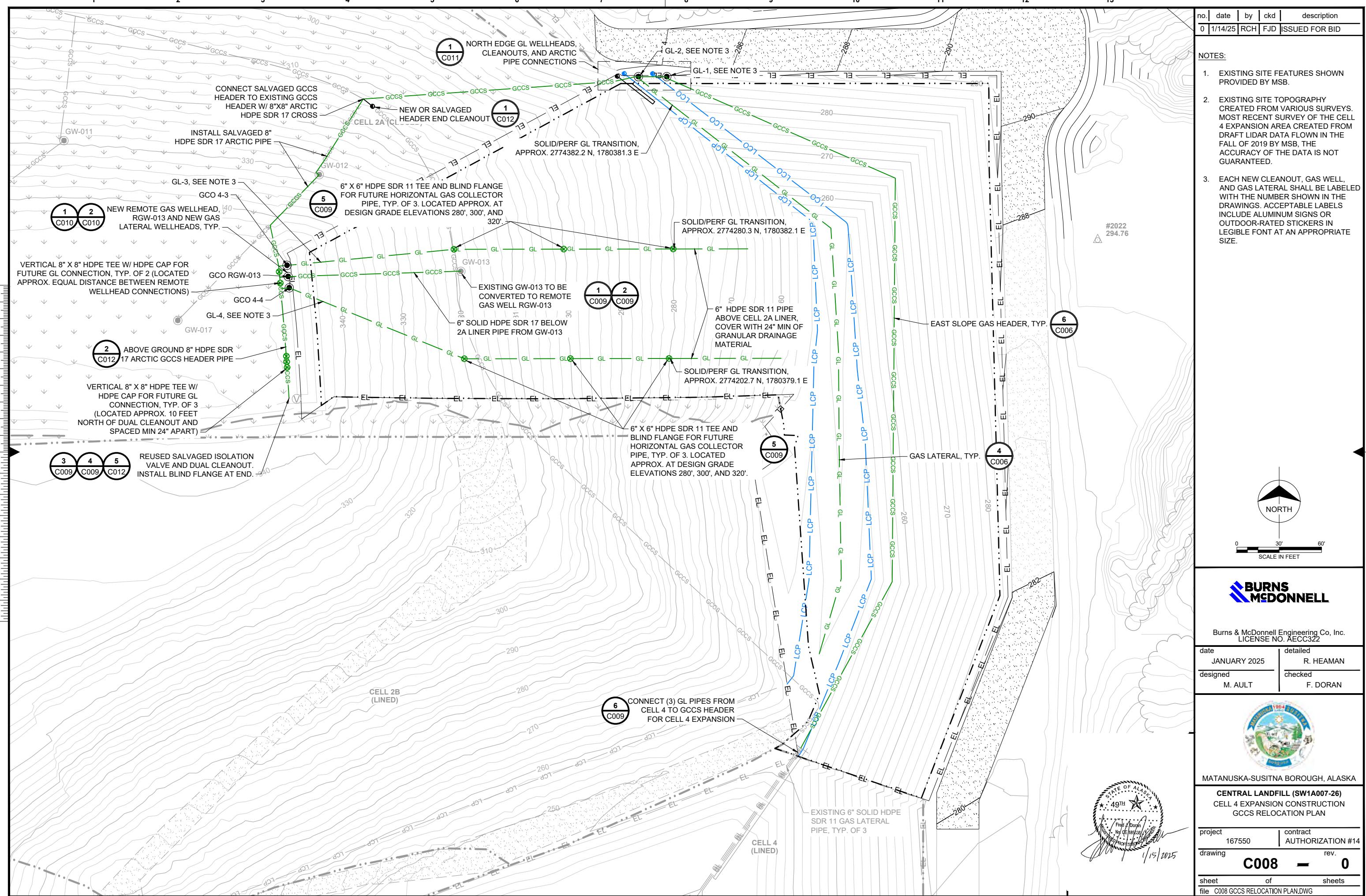
CENTRAL LANDFILL (SW1A007-26)
CELL 4 EXPANSION CONSTRUCTION
CONSTRUCTION DETAILS, 3 OF 3

project 167550 contract AUTHORIZATION #14
drawing C007 rev. 0

sheet of sheets

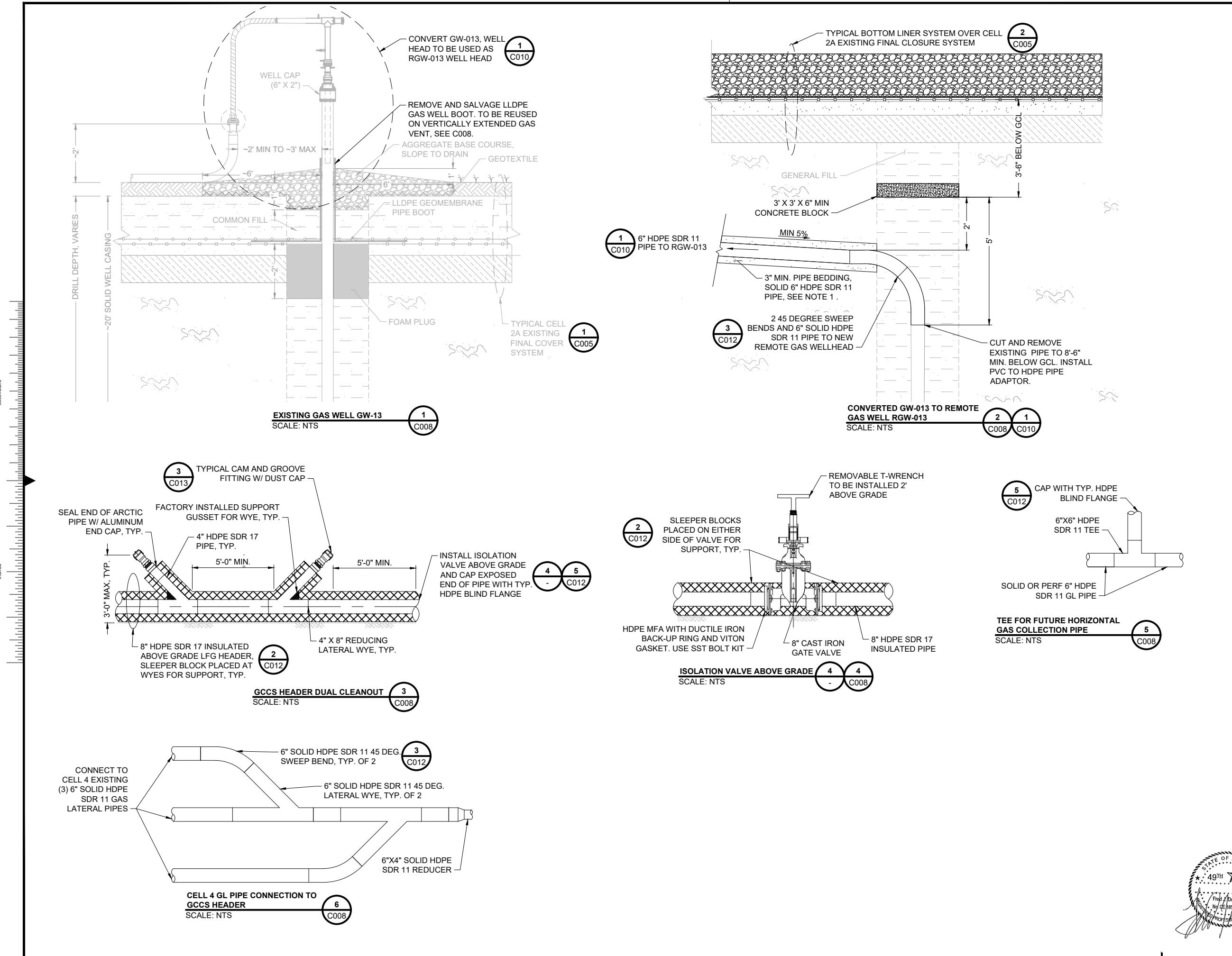
file C007 CONSTRUCTION DETAILS, 3 OF 3.DWG

49TH
1/15/2025
F. DORAN
No. CE 18538



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.



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

project 167550 contract AUTHORIZATION #14

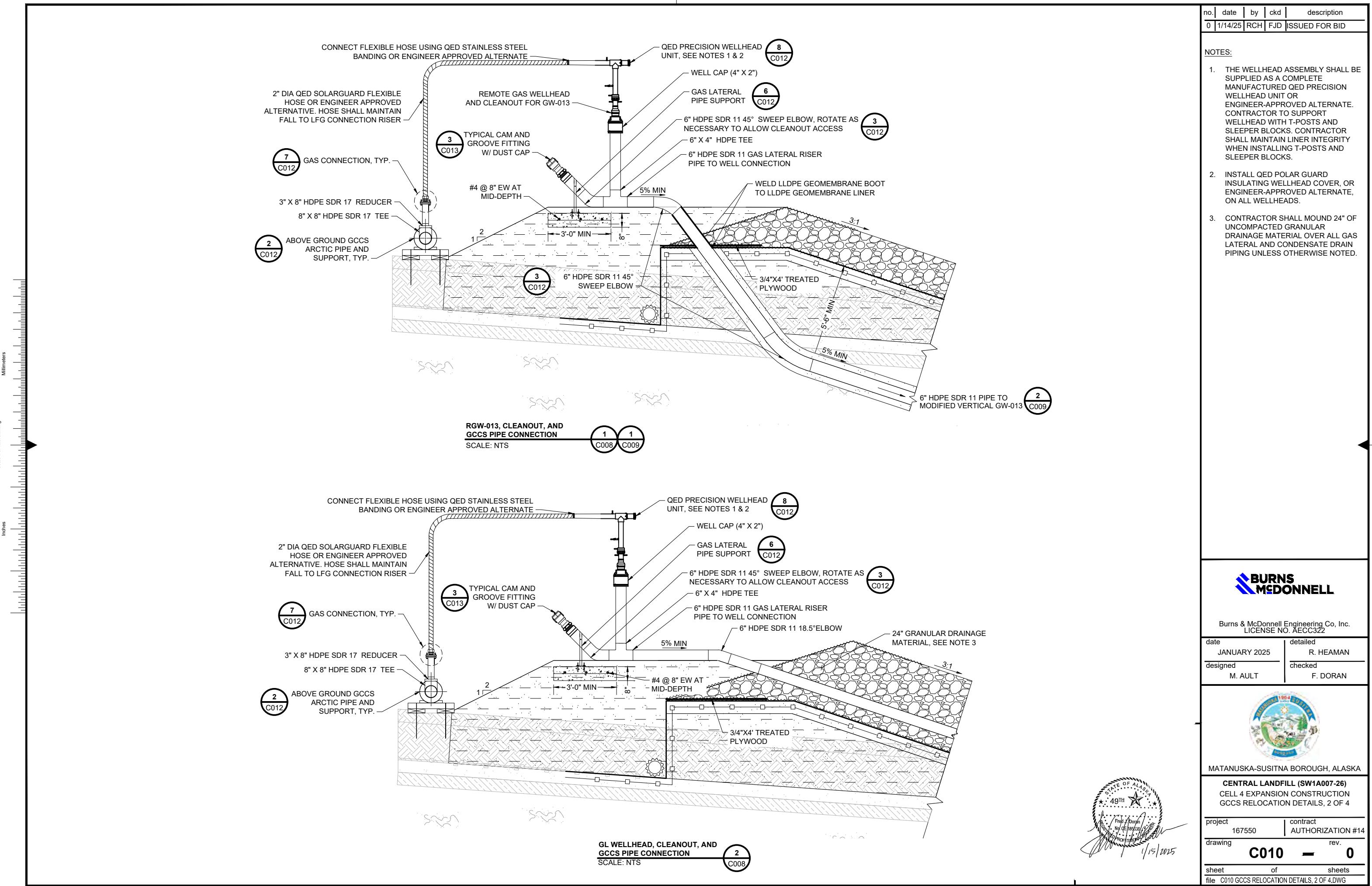
drawing C009 rev. 0

sheet 0 of sheets

file C009 GCCS RELOCATION DETAILS, 1 OF 4.DWG

1/15/2025

no.	date	by	ckd	description
0	1/14/25	RCH	FJD	ISSUED FOR BID



no.	date	by	ckd	description
0	1/14/25	RCH	FJD	ISSUED FOR BID

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 ENSURE NOT TO PENETRATE EXISTING GCL LINER.
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.
4. AFTER PROJECT IS COMPLETED, BOROUGH WILL COVER GAS LATERAL RISER PIPE TO WELL CONNECTION AND CLEANOUT WITH COMPOST FOR INSULATION.
5. 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.
6. COORDINATE WITH OWNER FOR DISPOSAL OF EXCESS EXCAVATED WASTE.
7. CONTRACTOR SHALL MAINTAIN LINER INTEGRITY WHEN INSTALLING T-POSTS AND SLEEPER BLOCKS.

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JANUARY 2025	R. HEAMAN
designed	checked



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

project	contract
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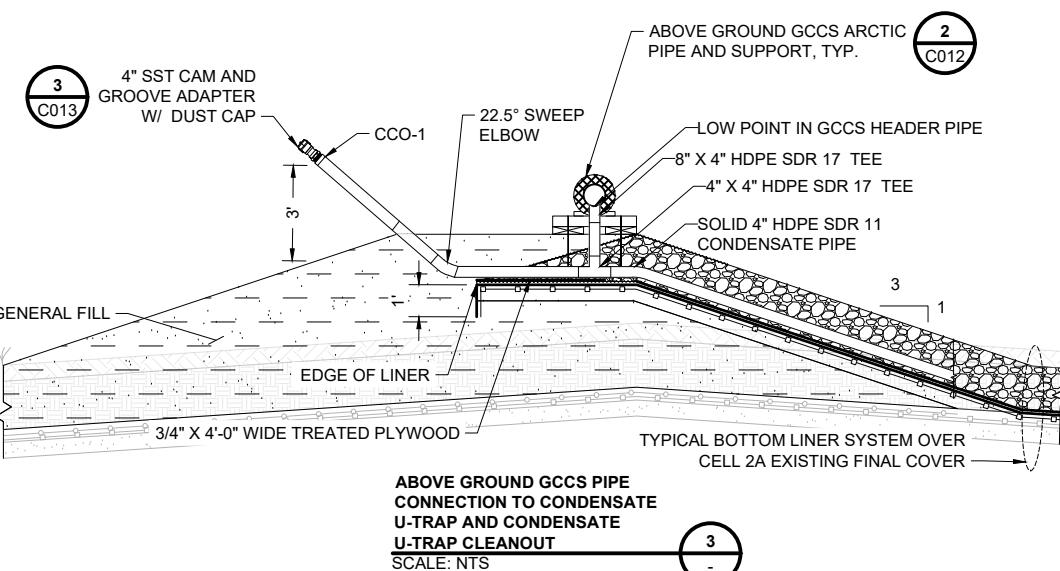
167550 | AUTHORIZATION #14
drawing rev.

C011 — 0

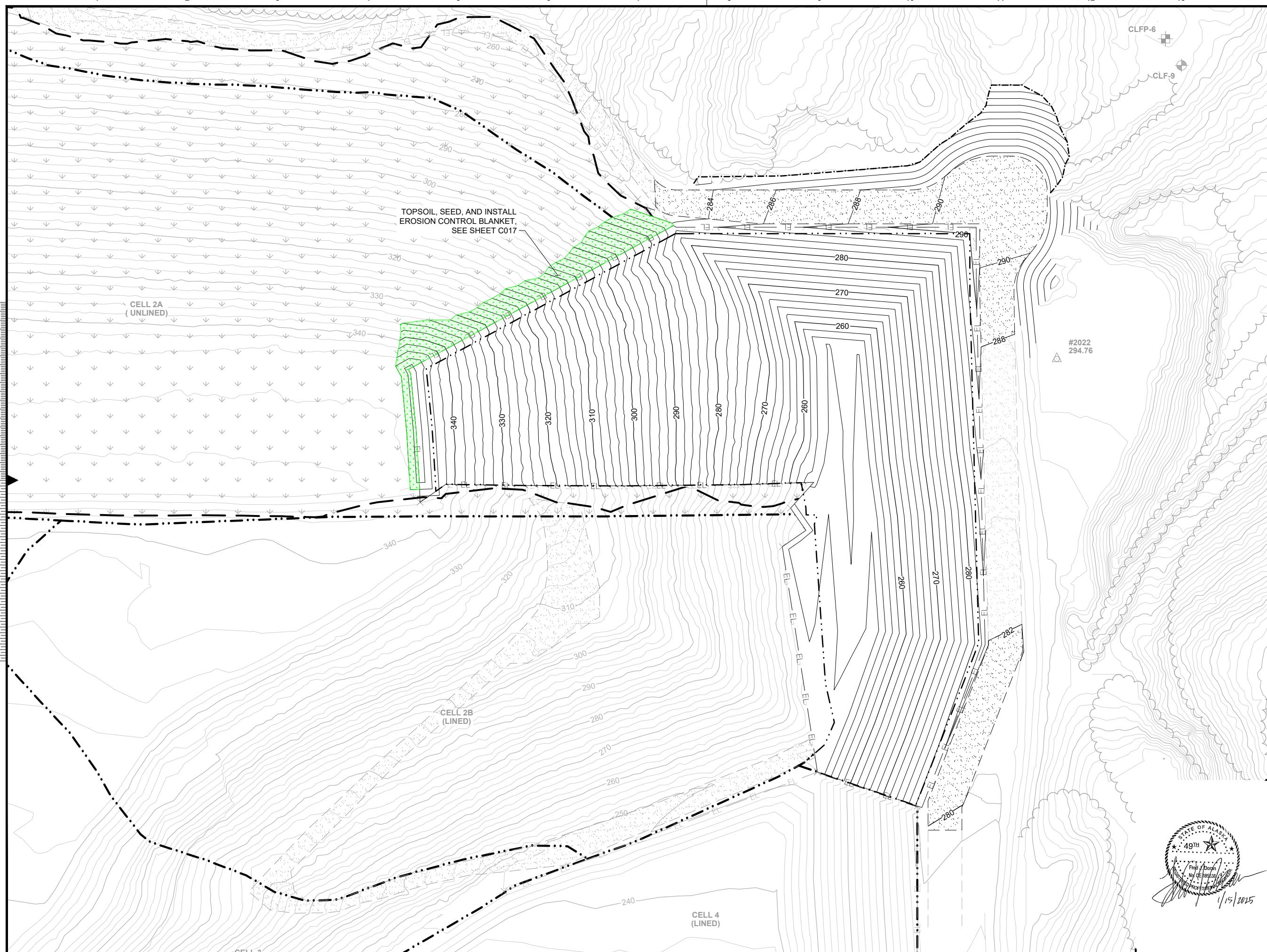
sheet of sheets

file C011 GCCS RELOCATION DETAILS, 3 OF 4.DWG

Technical drawings of a waste management facility's piping and foundation systems. The top drawing shows a piping network with labels for various components like 'LEACHATE CLEANOUT, TYP.', '22.5 SWEEP BEND', and '8" HDPE SDR 17 ARCTIC PIPE AND SUPPORT'. The bottom-left drawing is a detailed view of a 'GL WELLHEAD, CLEANOUT, AND ARCTIC PIPE CONNECTION' with labels for 'QED PRECISION WELLHEAD UNIT', 'WELL CAP (4" X 2")', and '4" SST CAM AND GROOVE ADAPTER W/ DUST CAP'. The bottom-right drawing shows a cross-section of a foundation with labels for 'GENERAL FILL', 'EDGE OF LINER', and 'TYPICAL BOTTOM LINER SYSTEM OVER CELL 2A EXISTING FINAL COVER'.



rcheaman Jan 13, 2025 - 6:27pm - Z:\Clients\ENS\MatSuBorough\167550_Cell4ExpDesign\Design\CADD\DWG\CO01_GCCS Relocation Details, 3 of 4.dwg



	date	by	ckd	description
	1/14/25	RCH	FJD	ISSUED FOR BID

OTES:

1. EXISTING SITE FEATURES SHOWN PROVIDED BY MSB.
2. 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.
3. DESIGN CONTOURS REPRESENT TOP OF GRANULAR DRAINAGE MATERIAL AND ACCESS ROAD GRADES.



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1 detailed
JANUARY 2025 P. HEAMAN

checked E. DORAN



Matanuska-Susitna Borough, Alaska

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

167559 contract AUTHORIZATION #14

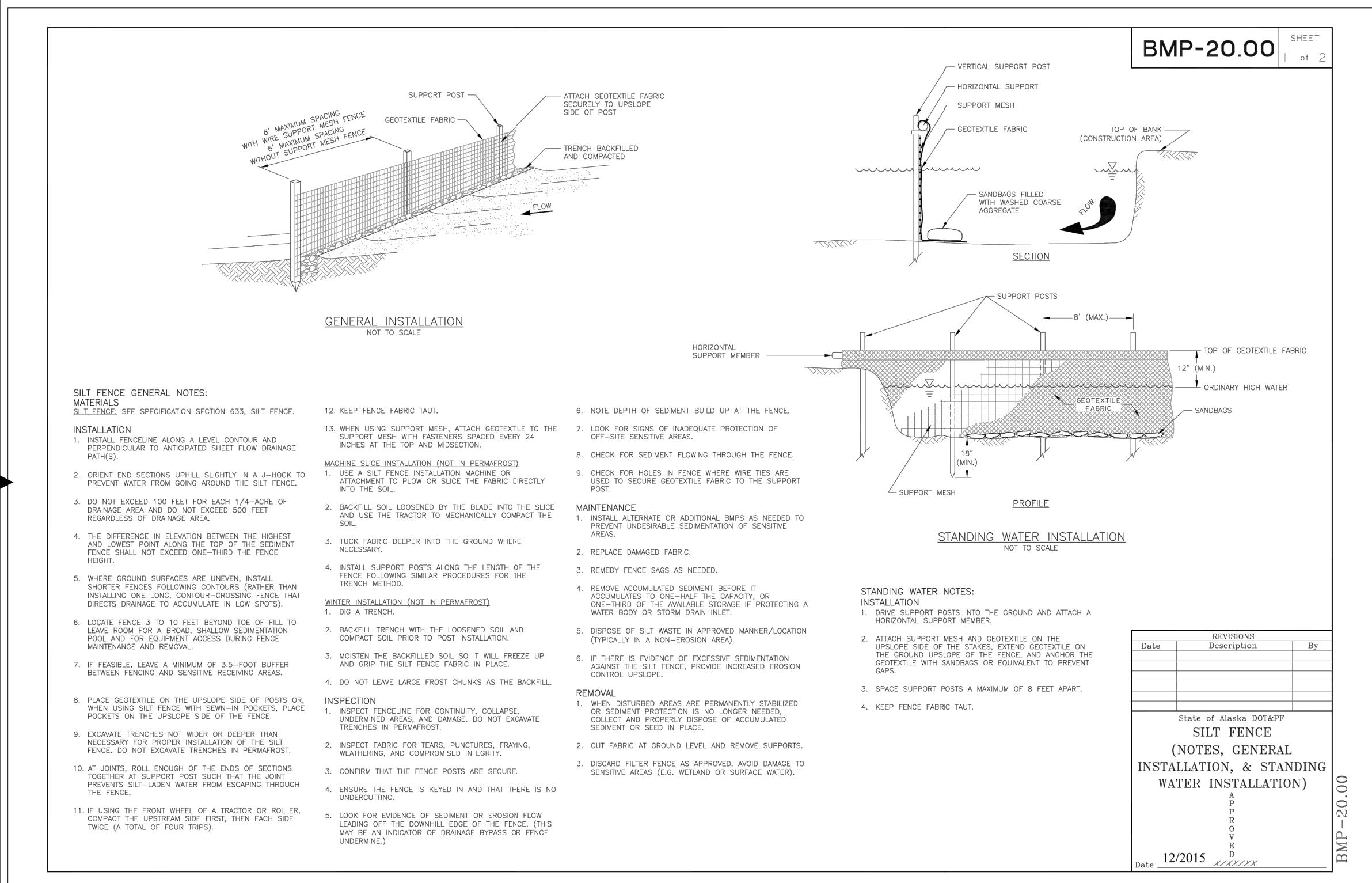
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of sheets

2014 EROSION CONTROL PLAN.DWG

NOTES:

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



NOTES:

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

BMP-20.00

SHEET
2 of 2

Scale for Microfilming

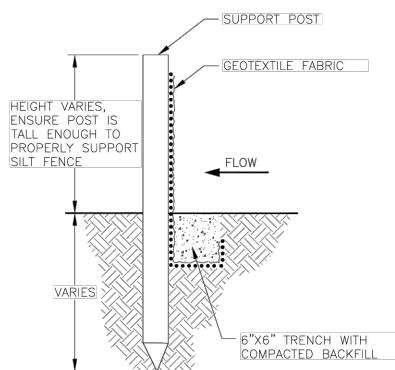
NOT TO SCALE

Scale for Microfilming

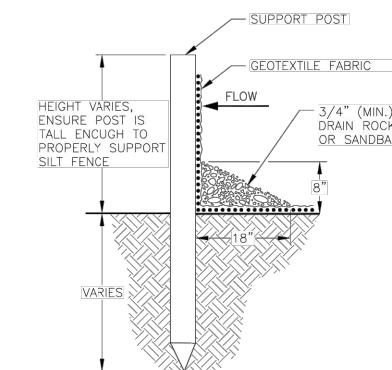
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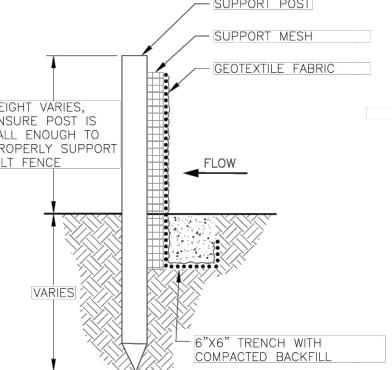
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TRENCH DETAIL
NOT TO SCALE

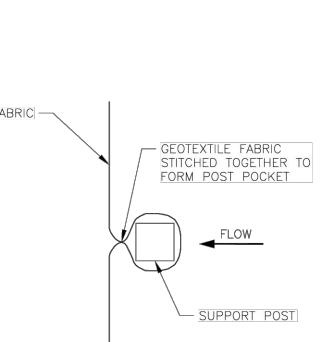
TRENCH NOTES:
INSTALLATION
1. DRIVE SUPPORT POSTS INTO THE GROUND.
2. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR POST BURIAL DEPTH.
3. EXCAVATE A TRENCH ON THE UPHILL SIDE ALONG THE LINE OF THE STAKES.
4. ATTACH GEOTEXTILE TO STAKES AND BURY GEOTEXTILE BOTTOM.
5. BACKFILL TRENCH AND COMPACT TO SECURE FENCE BOTTOM.

TRENCHLESS DETAIL
NOT TO SCALE

TRENCHLESS NOTES:
MATERIALS
CLEAN ROCK OR SANDBAGS.
INSTALLATION
1. DRIVE SUPPORT POSTS INTO THE GROUND.
2. ATTACH GEOTEXTILE ON THE UPHILL SIDE ALONG THE LINE OF THE STAKES.
3. EXTEND GEOTEXTILE ON THE GROUND UPHILL OF THE FENCE.
4. PLACE DRAIN ROCK ON GEOTEXTILE.
REMOVAL
1. WHEN SILT FENCE IS LOCATED IN WETLANDS OR SENSITIVE AREAS, REMOVE CLEAN ROCK OR SANDBAGS WHEN THE SILT FENCE IS REMOVED.

SUPPORT MESH REINFORCED FABRIC DETAIL
NOT TO SCALE

SUPPORT MESH REINFORCED FABRIC NOTES:
INSTALLATION
1. DRIVE SUPPORT POSTS INTO THE GROUND.
2. EXCAVATE A TRENCH ON THE UPHILL SIDE ALONG THE LINE OF THE STAKES. DO NOT EXCAVATE TRENCHES IN PERMAFROST.
3. EXTEND SUPPORT MESH A MINIMUM OF 3 INCHES INTO THE TRENCH.
4. ATTACH GEOTEXTILE TO STAKES AND BURY GEOTEXTILE BOTTOM.
5. BACKFILL TRENCH AND COMPACT TO SECURE FENCE BOTTOM.

SEWN-IN POCKET DETAIL
NOT TO SCALE

REVISIONS		
Date	Description	By

State of Alaska DOT&PF

SILT FENCE
(DETAILS)

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R
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D

Date X/XX/XX

BMP-20.00

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date JANUARY 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,
SILT FENCE 2 OF 2

project 167550 contract AUTHORIZATION #14

drawing C016 rev. 0

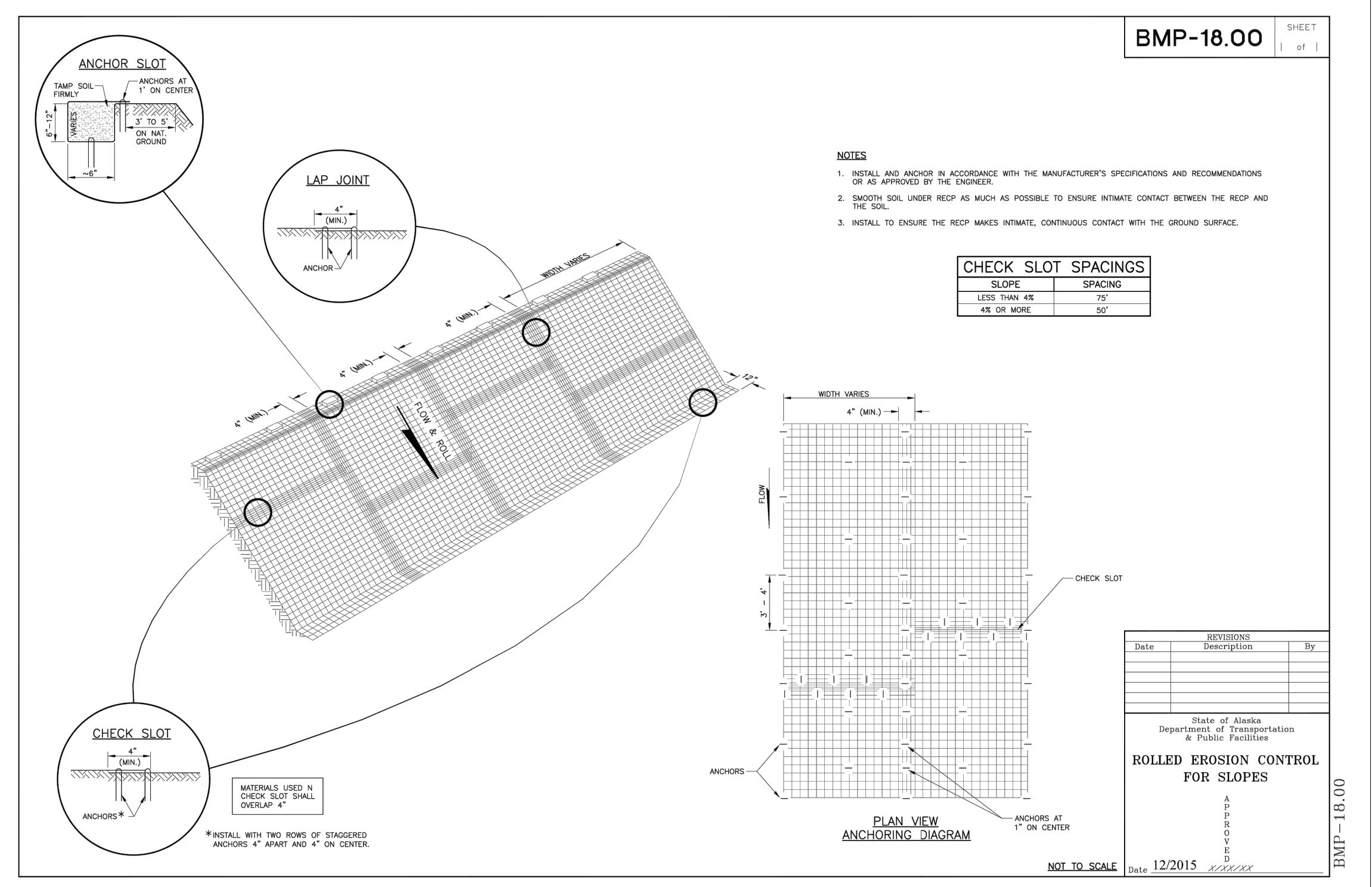
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file C016 EROSION CONTROL DETAILS SILT FENCE 2 OF 2.DWG

NOTES:

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

BMP-18.00 | SHEET | of |



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designed M. AULT | checked F. DORAN



Matanuska-Susitna Borough, Alaska

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

project 167550 | contract AUTHORIZATION #14

drawing C017 | rev. 0

sheet of sheets

file C017 EROSION CONTROL DETAILS, EROSION CONTROL BLANKET.DWG

no.	date	by	ckd	description
0	1/14/25	RCH	FJD	ISSUED FOR BID

NOTES:

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

BMP-23.00

SHEET
1 of 2

STABILIZED CONSTRUCTION EXIT GENERAL NOTES:

INSTALLATION

1. INSTALL STABILIZED CONSTRUCTION EXIT PRIOR TO EARTH WORK.
2. CLEAR THE EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER MATERIAL.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP, VEGETATIVE SEDIMENT FILTER OR OTHER PROTECTED OUTLET.
4. EXCAVATE AND GRADE THE AREA FOR ROCK PLACEMENT.
5. INSTALL SIGNS, FENCING OR BARRICADES TO CHANNEL OUTGOING TRAFFIC TO THE STABILIZED CONSTRUCTION EXIT.

INSPECTION

1. INSPECT STABILIZED CONSTRUCTION EXIT FOR SEDIMENT ACCUMULATION AND MATERIAL DISPLACEMENT.
2. INSPECT ROADWAY FOR SEDIMENT TRACK-OUT.
3. INSPECT DITCHES TO ENSURE NO SEDIMENT ACCUMULATION.

MAINTENANCE

1. MAINTAIN EACH EXIT IN A CONDITION THAT WILL PREVENT TRACKING OF MUD OR SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
2. REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT.
3. REMOVE ALL MUD AND SEDIMENT DEPOSITED ON PAVED ROADWAYS.
4. 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.
5. PREVENT TRACK-OUT BY USING ADDITIONAL BMPs, SUCH AS A TIRE WASH.

REMOVAL

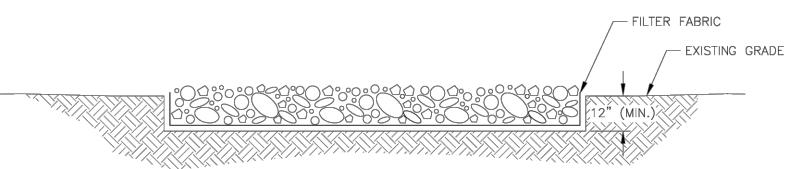
1. REMOVE THE STABILIZED CONSTRUCTION EXIT AND ANY SEDIMENT TRAPPING STRUCTURES AFTER THEY ARE NO LONGER NEEDED, OR WITH FINAL SITE STABILIZATION.
2. REGRADE AND PERMANENTLY STABILIZE THE REMAINING DISTURBED AREAS ACCORDING TO THE PLANS.

REVISIONS		
Date	Description	By

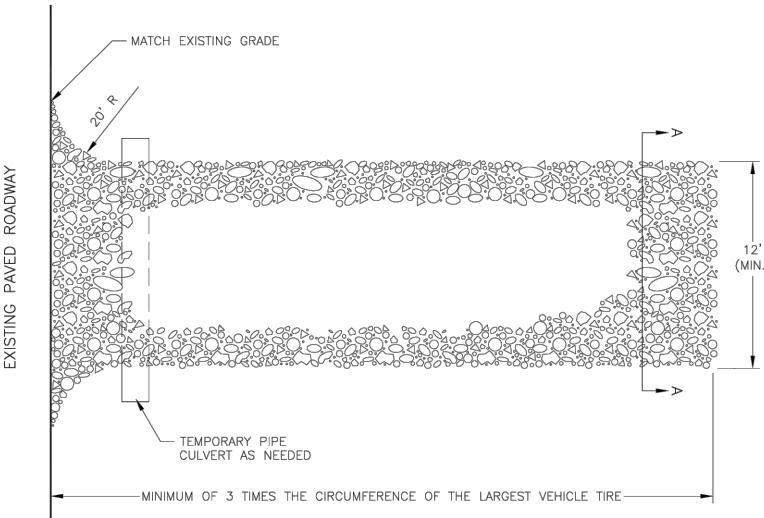
State of Alaska DOT&PF
STABILIZED
CONSTRUCTION EXIT
(NOTES, ROCK &
TEMPORARY PAVEMENT)

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Date 12/2015 X/XX/XX

BMP-23.00



SECTION A-A

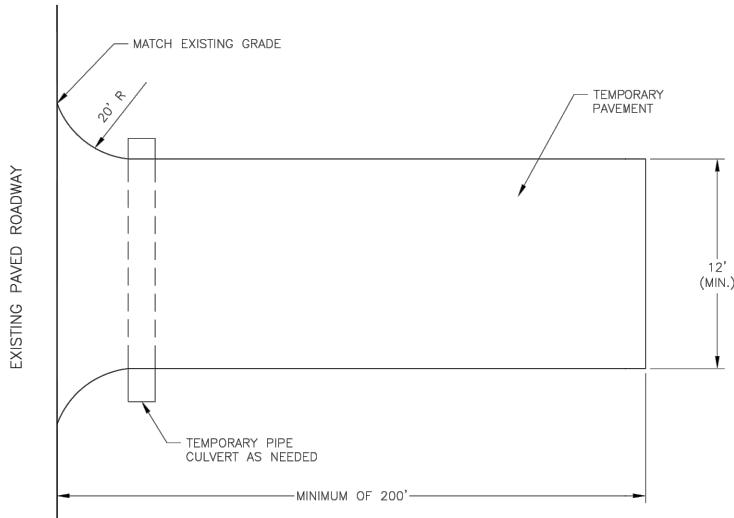
ROCK CONSTRUCTION EXIT
NOT TO SCALE

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 LANDED 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.

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date JANUARY 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

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file C018 EROSION CONTROL DETAILS, STAB. CONST. EXIT.DWG