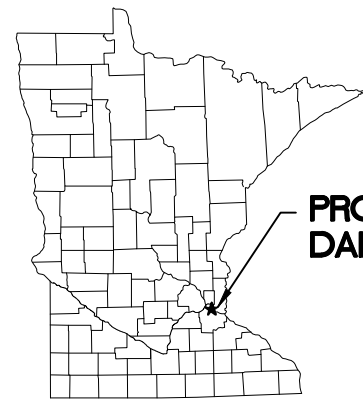


FREEWAY LANDFILL AND DUMP CLOSURE DIG AND LINE

MINNESOTA POLLUTION CONTROL AGENCY BURNSVILLE, MINNESOTA



**PROJECT LOCATION
DAKOTA COUNTY, MN**

LOCATION MAP

NOT TO SCALE



VICINITY MAP

NOT TO SCALE



FREEWAY LANDFILL ADDRESS:

SOUTHWEST CORNER OF WEST BLACK DOG ROAD AND INTERSTATE 35W
BURNSVILLE, MN

FREEWAY DUMP ADDRESS:

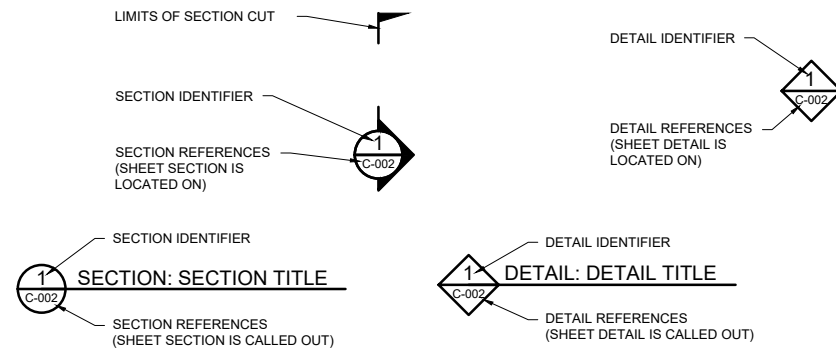
11937 HIGHWAY 35W S
BURNSVILLE, MN

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06/30/2022

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				CLIENT BID CONSTRUCTION		06/30/2021 06/30/2022		Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale AS SHOWN		FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA		BARR PROJECT No. 23/19-1372.00	
				RELEASED TO/FOR A B C 0 1 2 3		DATE RELEASED				Date 09/05/2019				Drawn AWT	
PRINTED NAME SIGNATURE DATE _____ LICENSE # _____				Approved BARR		Designated BARR		Approved -		DWG. No. G-001		REV. No. B			
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION					Minnesota POLLUTION CONTROL AGENCY		LOCATION MAP AND VICINITY MAP			

CADD USER: Anders W. Tolkkimen FILE: M:\DESIGN\23191372\06\2319137205_LINE_G-001.DWG PLOT SCALE: 1:2 PLOT DATE: 06/28/2022 1:26 PM
 BARR:\AutoCAD\2011\AutoCAD 2011 Support\enu\Template\Bar_2011_Template.dwt Plot at 1: 10/05/2010 14:09:50

REFERENCING



NOTES

1. THE NOTES ON THIS SHEET SHALL BE APPLICABLE TO ALL SHEETS WITHIN THIS SET OF DRAWINGS.
2. COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, PERMITS AND REGULATIONS.
3. TOPOGRAPHIC INFORMATION BASED ON AERIAL SURVEY CONDUCTED BY AYRES ASSOCIATES INC. IN APRIL 2020 AND INFORMATION PROVIDED BY CLIENT.
4. PROPERTY BOUNDARY INFORMATION PROVIDED BY THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES ON MAY 27, 2021.
5. AERIAL IMAGERY PROVIDED BY DAKOTA COUNTY AND NEARMAP.
6. ALL UTILITIES SHOWN ARE CONSIDERED LEVEL D, UNLESS OTHERWISE NOTED, IN ACCORDANCE WITH ASCE STANDARD C/ASCE38-02.
7. FIELD-LOCATE ALL SITE UTILITIES (PRIVATE AND PUBLIC) PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF UTILITY OWNER AT CONTRACTOR'S COST.
8. ALL CONSTRUCTION ACTIVITY MUST BE KEPT WITHIN THE CONSTRUCTION LIMITS.

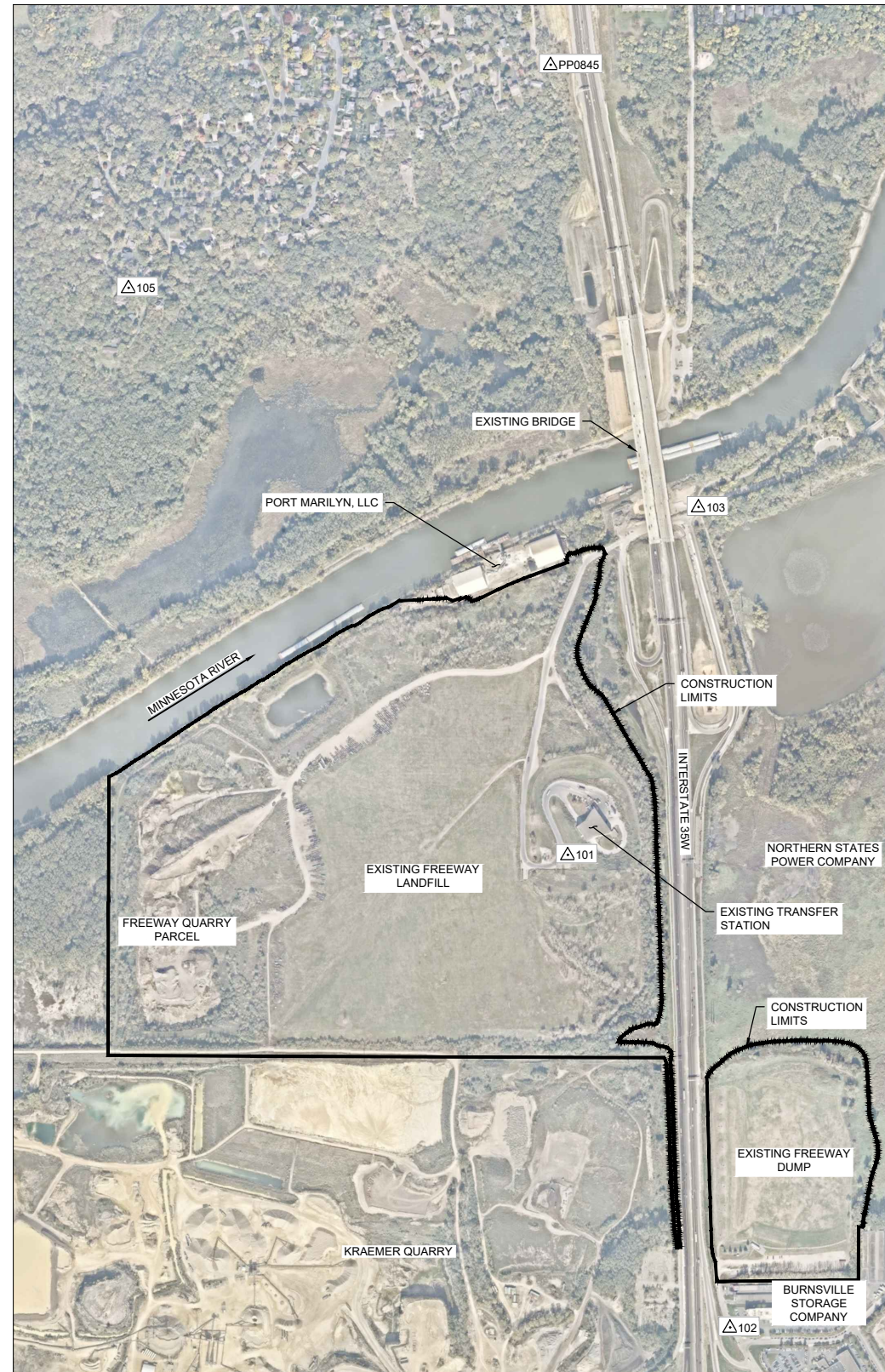
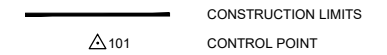
COORDINATE SYSTEM:

1. HORIZONTAL DATUM - NAD83 (2011 ADJUSTMENT)
DAKOTA COUNTY (US SURVEY FEET)
2. VERTICAL DATUM - NAVD88 (GEOID12A) (FEET)

ABBREVIATIONS AND SYMBOLS

AC	ACRE	MAX	MAXIMUM
AC-FT	ACRE-FOOT	MCES	METROPOLITAN COUNCIL ENVIRONMENTAL SERVICES
ADJ.	ADJACENT	MH	MANHOLE
APPROX.	APPROXIMATE	mil	MILLIMETER
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MIN.	MINIMUM
BMP	BEST MANAGEMENT PRACTICE	MN/DOT	MINNESOTA DEPARTMENT OF TRANSPORTATION
CF	CUBIC FOOT	NAD	NORTH AMERICAN DATUM
CFS	CUBIC FEET PER SECOND	NAVD	NORTH AMERICAN VERTICAL DATUM
CL	CENTER LINE	NPT	NATIONAL PIPE THREAD
CMP	CORRUGATED METAL PIPE	NWL	NORMAL WATER LEVEL
CONC	CONCRETE	O.C.	ON CENTER
CPEP	CORRUGATED POLYETHYLENE PIPE	O.D.	OUTER DIAMETER
DIA	DIAMETER	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
DIP	DUCTILE IRON PIPE	PI	POINT OF INTERSECTION
DR	DIMENSION RATIO	PIV	POST INDICATOR VALVE
EL.	ELEVATION	PSI	POUNDS PER SQUARE INCH
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	PVC	POLYVINYL CHLORIDE
FT	FOOT/FEET/LOW-DENSITY POLYETHYLENE	PVC	POINT OF VERTICAL CURVATURE
GA.	GAUGE	PVI	POINT OF VERTICAL INTERSECTION
GAL	GALLON	PVT	POINT OF VERTICAL TANGENCY
HDPE	HIGH DENSITY POLYETHYLENE	RCP	REINFORCED CONCRETE PIPE
HP	HIGH POINT	RD	ROAD
I.E.	INVERT ELEVATION	ROW	RIGHT OF WAY
INV	INVERT	SDR	STANDARD DIMENSION RATIO
LBS	POUND	SPEC	SPECIFICATION
LF	LINEAR FEET	SS	STAINLESS STEEL
LFC	LANDFILL FORCEMAIN CLEANOUT	STD	STANDARD
LLDPE	LINEAR LOW-DENSITY POLYETHYLENE	TBD	TO BE DETERMINED
LP	LOW POINT	TYP.	TYPICAL
		VC	VERTICAL CURVE
		@	AT
		Ø	DIAMETER

LEGEND



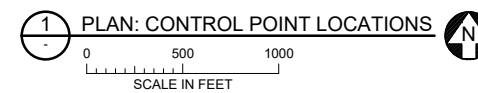
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102	214395.691	507503.976	717.02
103	219416.516	507310.636	711.18
105	220757.273	503822.953	805.70
PP0845	222123.260	506406.020	829.66

CONTROL POINT NOTES

1. ALL CONTROL POINTS, BENCHMARKS, MONUMENTS, AND OTHER REFERENCE POINTS SHALL BE CAREFULLY MAINTAINED. IF DISTURBED OR DESTROYED BY CONTRACTOR, THEY SHALL BE REPLACED AS DIRECTED BY OWNER AT CONTRACTOR'S EXPENSE.
2. REESTABLISH CONTROL POINT 101 PRIOR TO REMOVAL. COORDINATE LOCATION WITH OWNER.



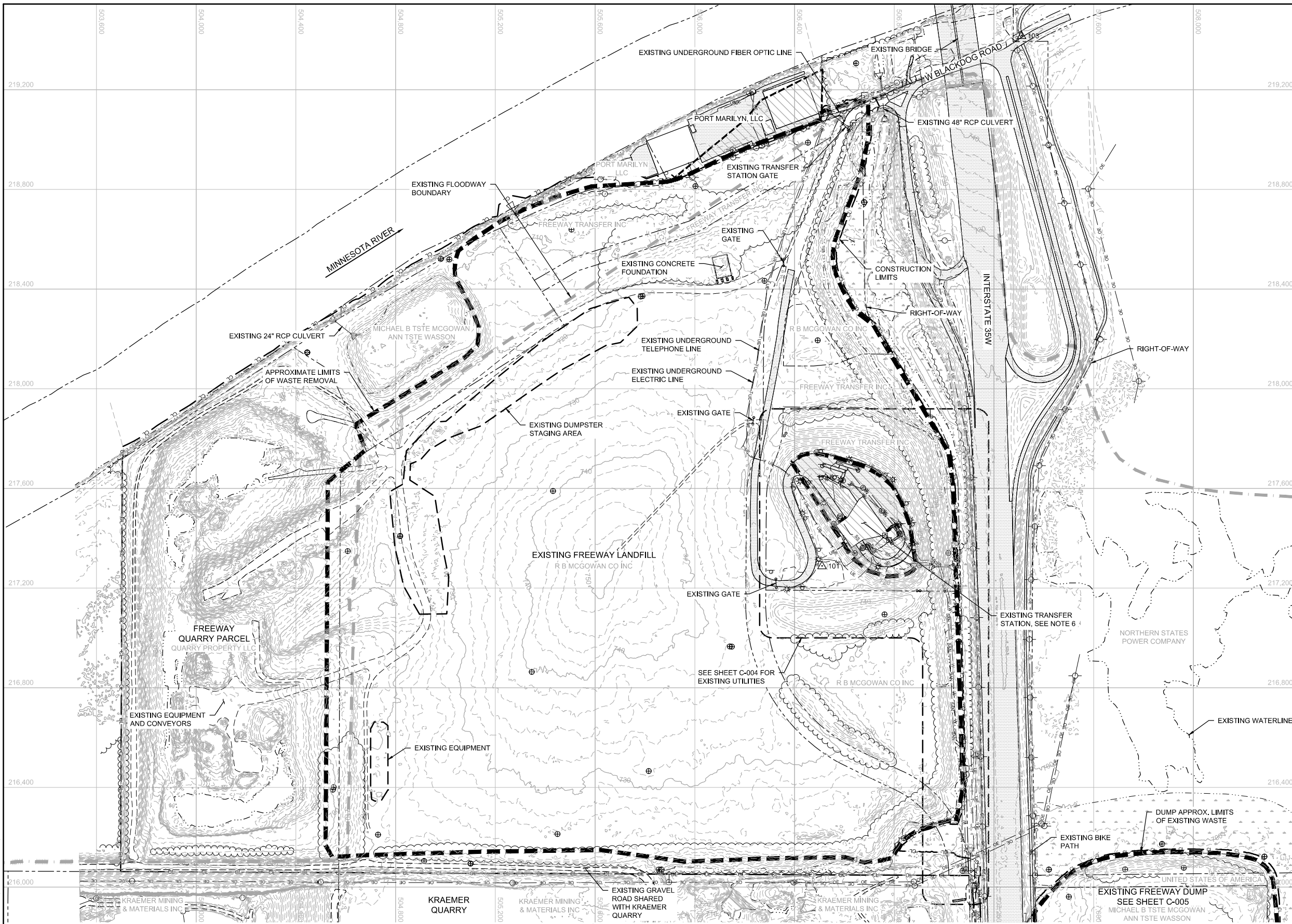
GOPHER STATE ONE CALL:
CALL BEFORE YOU DIG.
1-800-252-1166



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				I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				CLIENT 06/30/2021 06/30/2022				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435				Scale AS SHOWN Date 09/05/2019 Drawn AWT Checked BDP Designed BARR Approved -				FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA				BARR PROJECT No. 23/19-1372.00			
PRINTED NAME				SIGNATURE				RELEASED TO/FOR				Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				MINNESOTA POLLUTION CONTROL AGENCY				NOTES				CLIENT PROJECT No.			
DATE				DATE				DATE RELEASED				DATE				DATE				DWG. No. G-003				REV. No. B			
NO.				BY				CHK.				APP.				DATE				REVISION DESCRIPTION							

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LEGEND

CL	CL	CONSTRUCTION LIMITS
---	---	PROPERTY BOUNDARY
---	---	EXISTING FLOODWAY BOUNDARY
---	---	EXISTING WATERLINE (2020-06-12)
---	---	EXISTING 10-FOOT CONTOUR
---	---	EXISTING 2-FOOT CONTOUR
OE	OE	EXISTING OVERHEAD ELECTRIC
UE	UE	EXISTING UNDERGROUND ELECTRIC
T	T	EXISTING TELEPHONE LINE
FO	FO	EXISTING FIBER OPTIC
W	W	EXISTING POTABLE
SS	SS	EXISTING STORM
SS	SS	EXISTING CULVERT
SAN	SAN	EXISTING SANITARY
X	X	EXISTING CHAIN LINK FENCE
---	---	EXISTING TREE LINE
---	---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	---	EXISTING BUILDING
---	---	WETLANDS
---	---	EXISTING BITUMINOUS PAVEMENT
---	---	EXISTING GRAVEL PAVEMENT
△101		CONTROL POINT
⊕		EXISTING MONITORING WELL
⊙		EXISTING POWER POLE
⊛		EXISTING LIGHT POLE
⊠		EXISTING ELECTRIC PEDESTAL
⊙		EXISTING WATER MANHOLE
⊙		EXISTING POST INDICATOR VALVE
⊗		EXISTING GATE VALVE
⊕		EXISTING FIRE HYDRANT
⊙		EXISTING STORM SEWER MANHOLE
⊙		EXISTING SANITARY SEWER MANHOLE
⊠		EXISTING COMMUNICATIONS BOX
⊕		EXISTING SIGN
•		EXISTING BOLLARD
⊕		EXISTING GATE

- NOTES:**
- TEMPORARY EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE SHEET C-020 FOR EROSION CONTROL PLAN.
 - THE EXACT LIMITS OF EXISTING WASTE ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
 - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
 - PROVIDE FLOOD PROTECTION AS SHOWN ON SHEET C-026.
 - PROTECT ALL MONITORING WELLS, UNLESS OTHERWISE NOTED.
 - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. MAINTAIN ACCESS AND UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES.

1 PLAN: EXISTING CONDITIONS

SCALE IN FEET

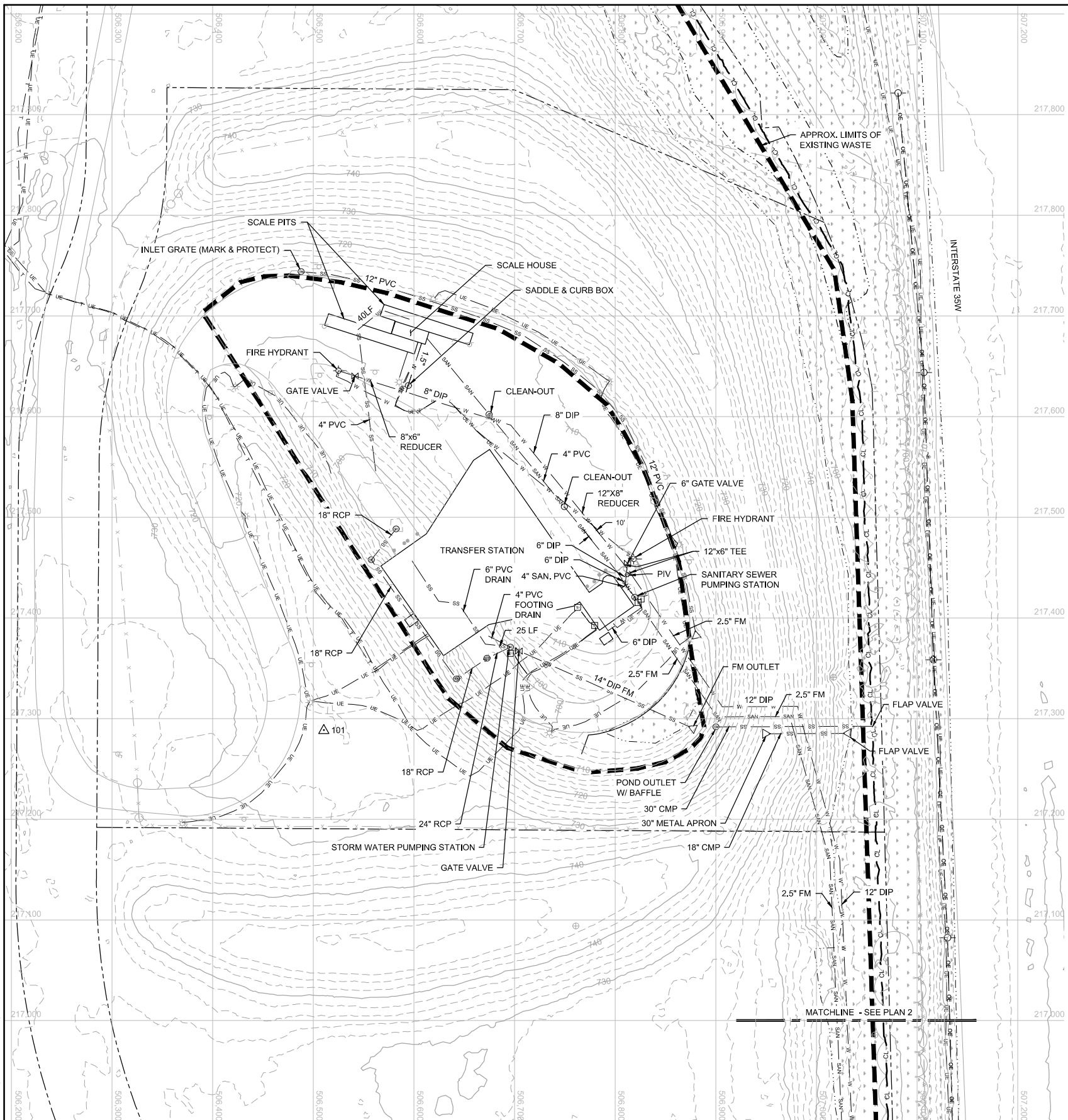
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06/30/2022

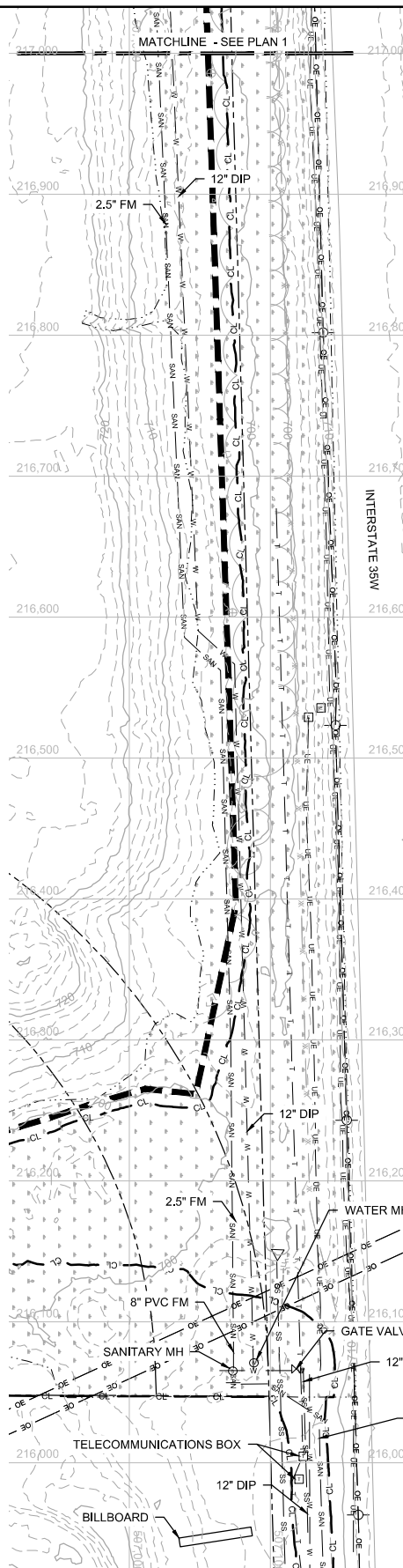
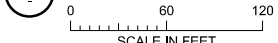
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A	B	C	0	1	2	3																	

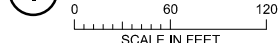
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1 PLAN: LANDFILL EXISTING UTILITIES - NORTH



2 PLAN: LANDFILL EXISTING UTILITIES - SOUTH



LEGEND

CL	CL	CONSTRUCTION LIMITS
---	---	PROPERTY BOUNDARY
---	---	EXISTING FLOODWAY BOUNDARY
---	---	EXISTING WATERLINE (2020-06-12)
---	---	EXISTING 10-FOOT CONTOUR
---	---	EXISTING 2-FOOT CONTOUR
OE	OE	EXISTING OVERHEAD ELECTRIC
UE	UE	EXISTING UNDERGROUND ELECTRIC
T	T	EXISTING TELEPHONE LINE
FO	FO	EXISTING FIBER OPTIC
W	W	EXISTING POTABLE
SS	SS	EXISTING STORM
SS	SS	EXISTING CULVERT
SAN	SAN	EXISTING SANITARY
X	X	EXISTING CHAIN LINK FENCE
---	---	EXISTING TREE LINE
---	---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	---	EXISTING BUILDING
---	---	WETLANDS
---	---	EXISTING BITUMINOUS PAVEMENT
---	---	EXISTING GRAVEL PAVEMENT
△101		CONTROL POINT
⊕		EXISTING MONITORING WELL
⊙		EXISTING POWER POLE
⊙		EXISTING LIGHT POLE
⊙		EXISTING ELECTRIC PEDESTAL
⊙		EXISTING WATER MANHOLE
⊙		EXISTING PIV
⊙		EXISTING GATE VALVE
⊙		EXISTING FIRE HYDRANT
⊙		EXISTING STORM SEWER MANHOLE
⊙		EXISTING SANITARY SEWER MANHOLE
⊙		EXISTING COMMUNICATIONS BOX
⊙		EXISTING SIGN
⊙		EXISTING BOLLARD
⊙		EXISTING GATE

- NOTES:**
- UTILITY INFORMATION BASED ON INFORMATION PROVIDED BY CLIENT AND IS UNVERIFIED.
 - ALL UTILITIES SHOWN ARE CONSIDERED LEVEL D, UNLESS OTHERWISE NOTED, IN ACCORDANCE WITH ASCE STANDARD C/ASCE38-02.
 - FIELD-LOCATE ALL SITE UTILITIES (PRIVATE AND PUBLIC) PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF UTILITY OWNER AT CONTRACTOR'S COST.
 - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
 - MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY. SEE SHEET C-071 FOR ADDITIONAL INFORMATION.
 - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.

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PRINTED NAME: _____
 SIGNATURE: _____
 DATE: _____ LICENSE #: _____

CLIENT	6/30/2021	6/30/2022					
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 SUITE 200
 MINNEAPOLIS, MN 55435

Project Office:
 BARR ENGINEERING CO.
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Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

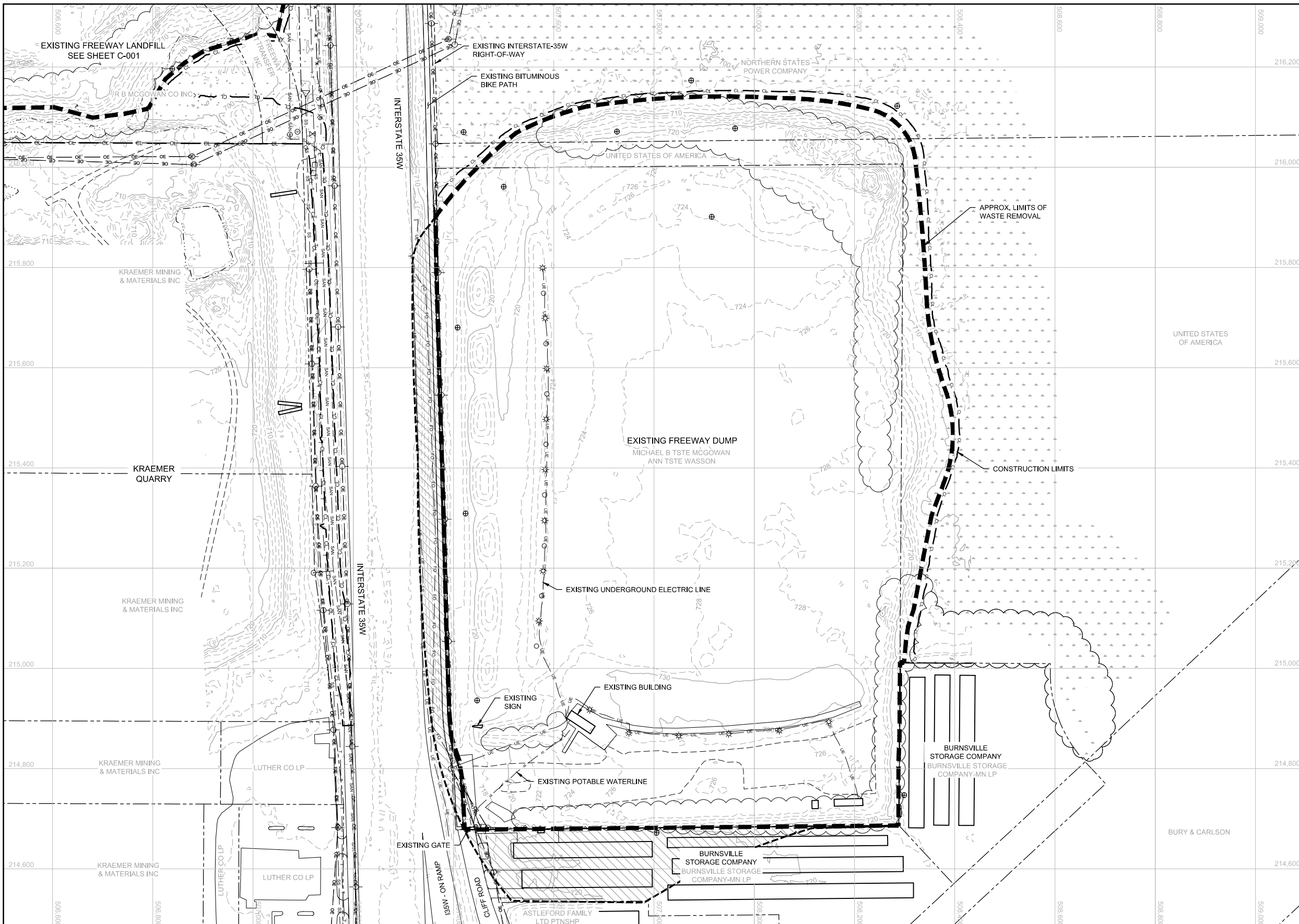
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Date	09/05/2019
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA

LANDFILL EXISTING UTILITIES
 PLAN

BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-004	REV. No. B



LEGEND

CL	CL	CONSTRUCTION LIMITS
---	---	PROPERTY BOUNDARY
---	---	EXISTING WATERLINE (2020-06-12)
---	---	EXISTING 10-FOOT CONTOUR
---	---	EXISTING 2-FOOT CONTOUR
OE	OE	EXISTING OVERHEAD ELECTRIC
UE	UE	EXISTING UNDERGROUND ELECTRIC
T	T	EXISTING TELEPHONE LINE
FO	FO	EXISTING FIBER OPTIC
W	W	EXISTING POTABLE
SS	SS	EXISTING STORM
SS	SS	EXISTING CULVERT
SAN	SAN	EXISTING SANITARY
x	x	EXISTING CHAIN LINK FENCE
□	□	EXISTING WOOD FENCE
---	---	EXISTING TREE LINE
---	---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	---	EXISTING BUILDING
---	---	WETLANDS
---	---	EXISTING BITUMINOUS PAVEMENT
---	---	EXISTING GRAVEL ROAD PAVEMENT
⊕	⊕	EXISTING MONITORING WELL
⊙	⊙	EXISTING POWER POLE
⊛	⊛	EXISTING LIGHT POLE
⊙	⊙	EXISTING WATER MANHOLE
⊗	⊗	EXISTING GATE VALVE
⊙	⊙	EXISTING SANITARY SEWER MANHOLE
□	□	EXISTING COMMUNICATIONS BOX
○	○	EXISTING POLE

- NOTES:**
- TEMPORARY EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE SHEET C-022 FOR EROSION CONTROL PLAN.
 - THE EXACT LIMITS OF EXISTING WASTE ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
 - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
 - PROVIDE FLOOD PROTECTION AS SHOWN ON SHEET C-027.
 - PROTECT ALL MONITORING WELLS, UNLESS OTHERWISE NOTED.
 - MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.
 - SURVEY LOCATE DID NOT CLEARLY LOCATE IRRIGATION SYSTEM.



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06/30/2022

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

CLIENT	6/30/2021	6/30/2022
BID		
CONSTRUCTION		
RELEASED TO/FOR	A	B
DATE RELEASED	0	1
	2	3

BARR
Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Ph: 1-800-632-2277
www.barr.com

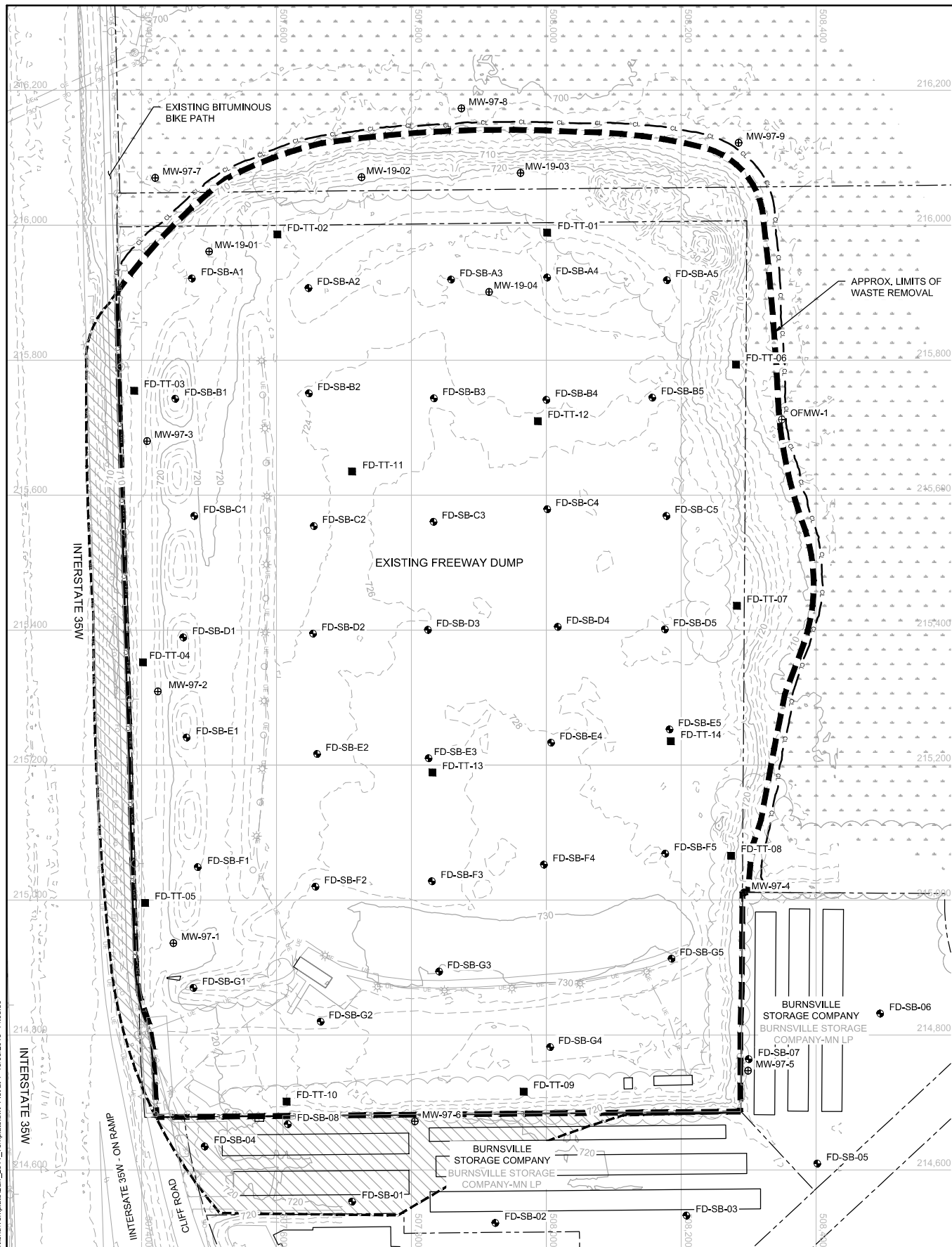
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Drawn	AWT
Checked	BDP
Designed	BARR
Approved	



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA
DUMP EXISTING CONDITIONS
PLAN

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-005
REV. No.	B

CADD USER: Andrea W. Tolkmier FILE: M:\DESIGN\23191372\062319137205_LINE_C-005.DWG PLOT SCALE: 1:2 PLOT DATE: 6/28/2022 4:18 PM
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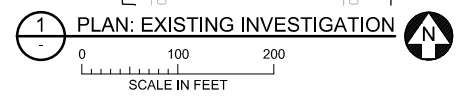
LEGEND

CL	CONSTRUCTION LIMITS	FD-SB-D2	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	PROPERTY BOUNDARY	MW-97-8	EXISTING BUILDING
---	EXISTING 10-FOOT CONTOUR	FL-TT-12	WETLANDS
---	EXISTING 2-FOOT CONTOUR	○	EXISTING BITUMINOUS PAVEMENT
OE	EXISTING OVERHEAD ELECTRIC	○	EXISTING GRAVEL ROAD PAVEMENT
UE	EXISTING UNDERGROUND ELECTRIC	○	SOIL BORING LOCATION
T	EXISTING TELEPHONE LINE	○	MONITORING WELL LOCATION
FO	EXISTING FIBER OPTIC	○	TEST TRENCH LOCATION
W	EXISTING POTABLE	○	EXISTING POWER POLE
---	EXISTING TREE LINE	○	EXISTING LIGHT POLE
---	APPROXIMATE LIMITS OF WASTE REMOVAL	○	EXISTING POLE

- NOTES:**
1. THE EXACT LIMITS OF EXISTING WASTE ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN IN THE TABLES BELOW. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
 2. SOIL BORING, MONITORING WELL, AND TEST TRENCH INFORMATION IS INCLUDED IN THE BID PACKAGE.
 3. PROTECT ALL MONITORING WELLS, UNLESS OTHERWISE NOTED.

POINT ID	INVESTIGATION METHOD (SEE NOTE 2)	NORTHING	EASTING	ELEVATION (FT)			
				EXISTING GROUND	TOP OF WASTE	BOTTOM OF WASTE	BEDROCK
FD-SB-A1	Soil Boring	215921	507475	714.1	713.1	702.6	701.1
FD-SB-A2	Soil Boring	215907	507647	725.1	721.1	699.1	699.1
FD-SB-A3	Soil Boring	215919	507859	723.7	720.2	690.7	688.7
FD-SB-A4	Soil Boring	215922	508001	726.6	721.6	700.6	-
FD-SB-A5	Soil Boring	215918	508179	724.5	713.0	699.0	-
FD-SB-B1	Soil Boring	215743	507450	725.9	719.9	703.4	701.4
FD-SB-B2	Soil Boring	215751	507648	723.9	721.9	698.9	698.9
FD-SB-B3	Soil Boring	215743	507833	725.5	725.0	698.5	-
FD-SB-B4	Soil Boring	215741	508000	723.8	722.3	697.5	-
FD-SB-B5	Soil Boring	215744	508157	725.0	723.0	703.5	-
FD-SB-C1	Soil Boring	215569	507478	720.4	715.4	702.9	700.9
FD-SB-C2	Soil Boring	215554	507655	723.3	720.8	707.3	702.3
FD-SB-C3	Soil Boring	215560	507833	727.0	722.5	711.0	705.5
FD-SB-C4	Soil Boring	215579	508001	727.7	726.2	702.7	702.7
FD-SB-C5	Soil Boring	215569	508178	727.2	724.7	704.7	-
FD-SB-D1	Soil Boring	215389	507462	726.3	715.3	703.3	701.3
FD-SB-D2	Soil Boring	215395	507654	724.3	720.3	703.8	703.8
FD-SB-D3	Soil Boring	215400	507824	726.1	722.1	706.1	704.1
FD-SB-D4	Soil Boring	215405	508017	726.9	723.4	706.9	705.9
FD-SB-D5	Soil Boring	215401	508176	728.5	726.5	708.0	708.0
FD-SB-E1	Soil Boring	215241	507467	725.9	717.9	703.9	702.4
FD-SB-E2	Soil Boring	215216	507660	725.5	722.5	703.5	703.5
FD-SB-E3	Soil Boring	215210	507826	727.8	726.8	703.8	703.8
FD-SB-E4	Soil Boring	215233	508007	728.3	725.3	-	-
FD-SB-E5	Soil Boring	215253	508183	727.7	726.2	706.7	706.7
FD-SB-F1	Soil Boring	215048	507483	722.0	717.0	707.5	706.5
FD-SB-F2	Soil Boring	215020	507658	728.5	724.0	706.5	705.0
FD-SB-F3	Soil Boring	215028	507830	727.7	726.7	706.7	705.2
FD-SB-F4	Soil Boring	215052	507996	728.9	726.4	713.9	713.9
FD-SB-F5	Soil Boring	215069	508176	728.1	727.1	714.1	714.1
FD-SB-G1	Soil Boring	214870	507477	726.5	715.5	707.5	705.5
FD-SB-G2	Soil Boring	214820	507665	725.3	722.3	708.3	707.3
FD-SB-G3	Soil Boring	214894	507841	729.9	726.9	709.9	709.9
FD-SB-G4	Soil Boring	214782	508006	727.2	725.7	711.7	710.2
FD-SB-G5	Soil Boring	214913	508186	729.2	725.2	715.2	715.2

POINT ID	INVESTIGATION METHOD (SEE NOTE 2)	NORTHING	EASTING	ELEVATION (FT)			
				EXISTING GROUND	TOP OF WASTE	BOTTOM OF WASTE	BEDROCK
FD-SB-01	Soil Boring	214553	507712	720.2	715.7	710.2	710.2
FD-SB-02	Soil Boring	214521	507924	720.6	-	-	702.6
FD-SB-03	Soil Boring	214532	508208	719.1	-	-	709.1
FD-SB-04	Soil Boring	214635	507494	718.9	713.9	708.9	708.9
FD-SB-05	Soil Boring	214609	508401	718.6	-	-	708.1
FD-SB-06	Soil Boring	214832	508495	718.6	-	-	706.6
FD-SB-07	Soil Boring	214764	508300	718.1	-	-	708.6
FD-SB-08	Soil Boring	214668	507617	719.8	719.3	710.8	707.3
MW-19-01	Monitoring Well	215961	507500	716.4	714.9	701.9	701.4
MW-19-02	Monitoring Well	216071	507726	718.5	717.5	702.5	701.0
MW-19-03	Monitoring Well	216077	507962	723.0	719.5	701.0	-
MW-19-04	Monitoring Well	215901	507915	724.1	720.6	694.1	688.6
OFMW-1	Monitoring Well	215712	508349	705.1	-	-	-
MW-97-1	Monitoring Well	214936	507447	719.0	-	-	705.0
MW-97-2	Monitoring Well	215309	507424	716.6	-	-	702.6
MW-97-3	Monitoring Well	215680	507408	714.5	-	-	700.5
MW-97-4	Monitoring Well	215011	508293	718.0	-	-	709.0
MW-97-5	Monitoring Well	214747	508299	718.0	-	-	707.5
MW-97-6	Monitoring Well	214672	507805	720.5	-	-	706.5
MW-97-7	Monitoring Well	216070	507420	704.0	-	-	699.5
MW-97-8	Monitoring Well	216173	507874	702.1	-	-	697.6
MW-97-9	Monitoring Well	216122	508285	705.2	-	-	697.7
FD-TT-01	Test Trench	215989	508001	725.5	722.5	-	-
FD-TT-02	Test Trench	215986	507601	721.8	720.8	-	-
FD-TT-03	Test Trench	215755	507389	712.4	710.4	707.4	-
FD-TT-04	Test Trench	215352	507402	714.4	712.9	704.4	702.4
FD-TT-05	Test Trench	214996	507405	716.2	712.2	707.2	706.2
FD-TT-06	Test Trench	215793	508281	709.2	707.7	-	-
FD-TT-07	Test Trench	215436	508283	726.4	722.4	-	-
FD-TT-08	Test Trench	215066	508274	722.9	720.9	-	-
FD-TT-09	Test Trench	214716	507966	727.1	723.1	-	-
FD-TT-10	Test Trench	214701	507615	723.7	721.7	-	-
FD-TT-11	Test Trench	215635	507712	724.5	722.5	-	-
FD-TT-12	Test Trench	215710	507988	724.9	723.4	-	-
FD-TT-13	Test Trench	215189	507831	727.4	725.9	-	-
FD-TT-14	Test Trench	215235	508184	727.6	727.1	-	-



CADD USER: Andrea W. Tolkmier; FILE: M:\DESIGN\23191372\062319137205_LINE_C-006.DWG; PLOT SCALE: 1:2; PLOT DATE: 6/28/2022 4:22 PM
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 DATE: _____ LICENSE #: _____

CLIENT	6/30/2021	6/30/2021							
BID									
CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

Project Office:
BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
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 MINNEAPOLIS, MN 55435

Corporate Headquarters:
 Minneapolis, Minnesota
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Scale	AS SHOWN
Date	09/05/2019
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	-

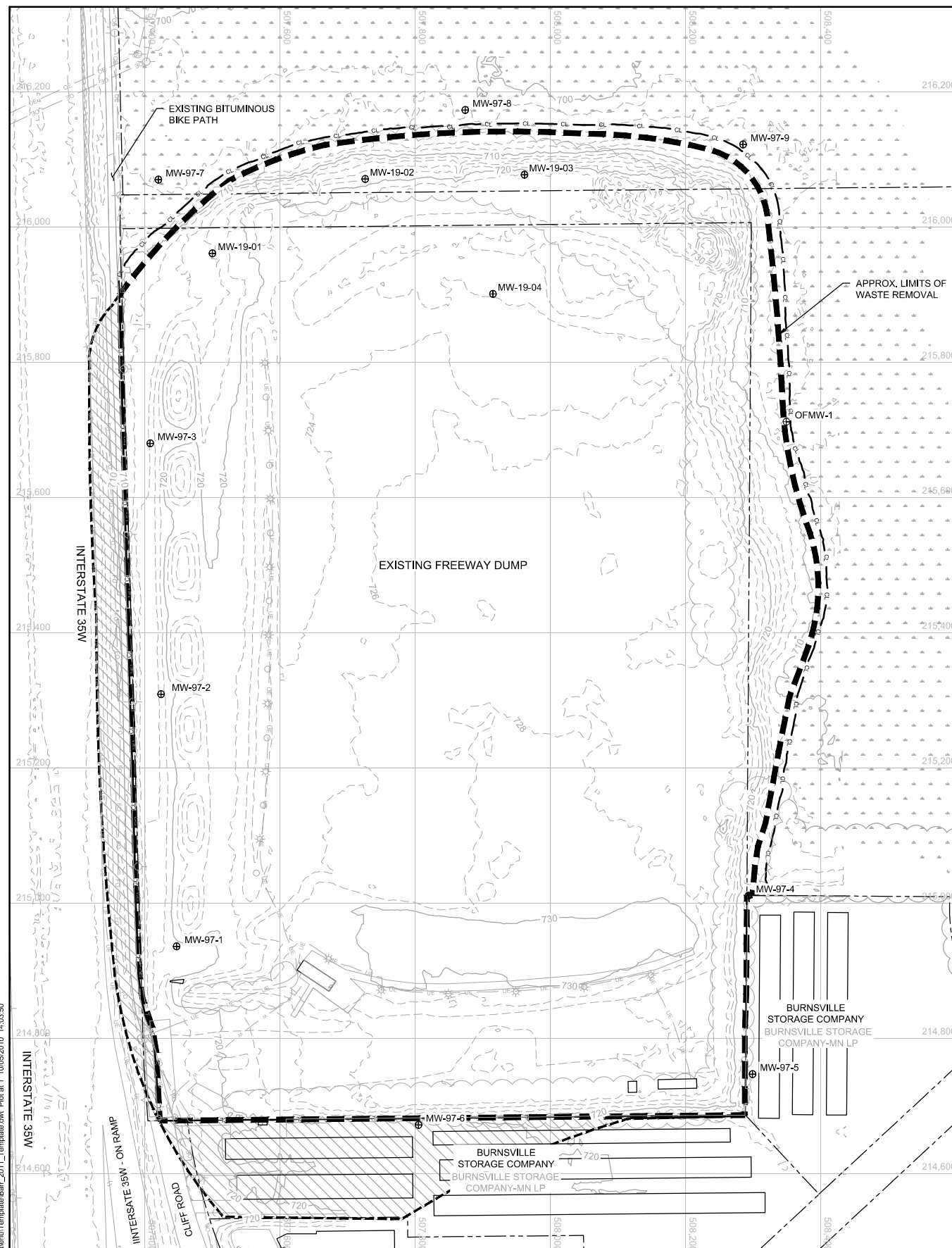
MINNESOTA POLLUTION CONTROL AGENCY

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NOT FOR CONSTRUCTION
 06/30/2022

FREEWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA

DUMP EXISTING INVESTIGATION
 PLAN

BARR PROJECT No. 23/19-1372.00
 CLIENT PROJECT No. _____
 DWG. No. C-006
 REV. No. B



1 PLAN: EXISTING DUMP GROUNDWATER MONITORING

SCALE IN FEET

0 100 200

LEGEND

- CL --- CL --- CONSTRUCTION LIMITS
- --- PROPERTY BOUNDARY
- 720 --- EXISTING 10-FOOT CONTOUR
- 728 --- EXISTING 2-FOOT CONTOUR
- OE --- OE --- EXISTING OVERHEAD ELECTRIC
- UE --- UE --- EXISTING UNDERGROUND ELECTRIC
- T --- T --- EXISTING TELEPHONE LINE
- FO --- FO --- EXISTING FIBER OPTIC
- W --- W --- EXISTING POTABLE
- --- EXISTING TREE LINE
- --- APPROXIMATE LIMITS OF WASTE REMOVAL
- --- APPROXIMATE LIMITS OF WASTE TO REMAIN
- --- EXISTING BUILDING
- --- WETLANDS
- --- EXISTING BITUMINOUS PAVEMENT
- --- EXISTING GRAVEL ROAD PAVEMENT
- ⊕ MW-97-7 MONITORING WELL
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING LIGHT POLE
- EXISTING POLE

MONITORING WELL ID	TOP OF SCREEN	BOTTOM OF SCREEN	NORTHING	EASTING	ELEVATION (FT)				GROUNDWATER ELEVATION DATA (FT MSL)			
					EXISTING GROUND	TOP OF WASTE	BOTTOM OF WASTE	BEDROCK	Sept 23 2019	June 17 2019	April 9 2019	Jan 2015
MINNESOTA RIVER STAGE AT SAVAGE	-	-	-	-	-	-	-	-	698.9	698.8	708.32	688.37
MW-19-01	708.8	698.8	4959662	477236	716	714	701	700.8	701.3	705.2	706.7	-
MW-19-02	710.5	700.5	4959695	477305	718	717	702	700.5	700.6	705.2	707.4	-
MW-19-03	708.2	688.2	4959697	477377	722	719	700	-	703.3	706.0	708.6	-
MW-19-04	709.1	689.1	4959643	477362	724	721	699	688.6	704.9	706.6	708.3	-
MW-97-1	703.0	688.0	4959350	477218	719	-	-	705.0	703.0	706.3	702.6	695.7
MW-97-2	701.0	686.0	4959464	477212	717	-	-	703.0	702.7	705.3	-	-
MW-97-3	697.6	683.6	4959577	477207	714	-	-	699.6	700.0	702.2	703.9	-
MW-97-4	707.5	690.5	4959372	477476	719	-	-	709.5	709.3	710.8	710.7	-
MW-97-5	704.8	687.8	4959291	477478	718	-	-	707.8	709.0	710.4	709.9	704.9
MW-97-6	704.5	691.5	4959269	477327	720	-	-	706.5	706.1	708.8	703.4	-
MW-97-7	695.4	685.9	4959695	477212	704	-	-	698.9	696.8	699.0	-	687.5
MW-97-8	687.1	682.1	4959726	477350	702	-	-	697.1	-	-	-	-
MW-97-9	694.9	684.9	4959710	477475	705	-	-	696.9	701.1	701.6	-	695.7
OFMW-1	694.0	684.0	4959585	477494	705	-	704.0	-	702.1	702.4	-	-

- NOTES:**
- GROUNDWATER MONITORING HAS BEEN PERIODICALLY COLLECTED BY VARIOUS PARTIES OVER SEVERAL DECADES.
 - THE GROUNDWATER DATA TABULATED ABOVE HAS BEEN SELECTED AS THE MOST COMPREHENSIVE SET OF DATA AVAILABLE. ADDITIONAL DATA MAY BE AVAILABLE, AND GROUNDWATER ELEVATIONS MAY BE OBSERVED OUTSIDE OF THE RANGES PRESENTED IN THE TABLE.
 - NOT ALL MONITORING WELLS ARE SCREENED IN THE SAME GEOLOGIC UNIT. CONTRACTORS ARE ENCOURAGED TO REVIEW THE FOCUSED REMEDIAL INVESTIGATION REPORT FOR ADDITIONAL CONTEXT REGARDING GROUNDWATER ELEVATION DATA.
 - COMPREHENSIVE MONITORING WELL INFORMATION IS INCLUDED IN THE REFERENCE DOCUMENTS.

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NOT FOR CONSTRUCTION
06/30/2022

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PRINTED NAME _____
SIGNATURE _____
DATE _____ LICENSE # _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
BARR ENGINEERING CO.				

BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

Project Office:
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www.barr.com

Scale	AS SHOWN
Date	09/05/2019
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	-



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

DUMP GROUNDWATER MONITORING
PLAN

BARR PROJECT No. 23/19-1372.00	CLIENT PROJECT No.
DWG. No. C-007	REV. No. B

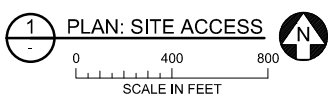
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LEGEND

	CONSTRUCTION LIMITS
	PROPOSED CENTERLINE ALIGNMENT
	APPROXIMATE LIMITS OF WASTE REMOVAL

- NOTES:**
1. CONTRACTOR RESPONSIBLE FOR TEMPORARY TRAFFIC CONTROL THROUGHOUT CONSTRUCTION. TEMPORARY TRAFFIC AND PEDESTRIAN CONTROLS SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
 2. ALL SIGNAGE SHALL BE IN COMPLIANCE WITH THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES BY THE FEDERAL HIGHWAY ADMINISTRATION. CONTRACTOR SHALL GET APPROVAL FOR PROPOSED TRAFFIC CONTROL PLAN FROM AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
 3. ALL ADJACENT STREETS, PATHS, AND PARKING LOTS MUST BE SWEEPED TO KEEP THEM FREE OF SEDIMENT AND MATERIALS TRACKED OFF SITE.
 4. RESTORE CLIFF RD, EMBASSY RD, AND BIKE PATH TO PRE-CONSTRUCTION CONDITIONS UPON COMPLETION OF WORK. REPAVE PROPOSED SITE ENTRANCE UPON COMPLETION OF PROJECT.
 5. TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
 6. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.
 7. COORDINATE TIMING WITH PORT MARILYN, LLC FOR CONSTRUCTION ACTIVITIES THAT WOULD LIMIT THEIR ACCESS.



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PRINTED NAME: _____
SIGNATURE: _____
DATE: _____ LICENSE # _____

CLIENT	06/30/2021	06/30/2022							
BID									
CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

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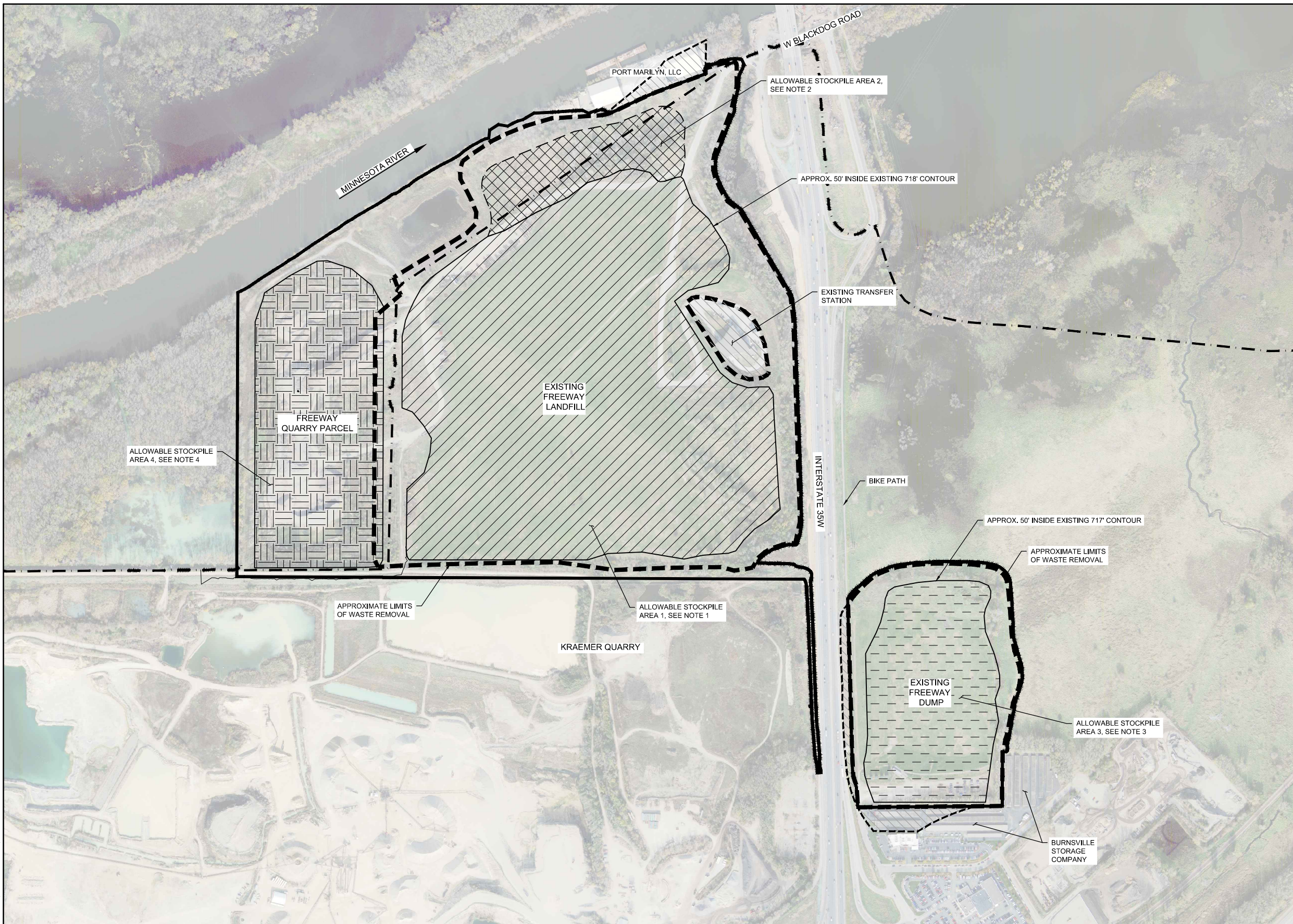
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Date	09/05/2019
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

SITE ACCESS
PLAN

BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-008	REV. No. B



LEGEND

	CONSTRUCTION LIMITS
	EXISTING FLOODWAY BOUNDARY
	APPROXIMATE LIMITS OF WASTE REMOVAL
	APPROXIMATE LIMITS OF WASTE TO REMAIN
	ALLOWABLE STOCKPILE AREA 1, SEE NOTE 1
	ALLOWABLE STOCKPILE AREA 2, SEE NOTE 2
	ALLOWABLE STOCKPILE AREA 3, SEE NOTE 3
	ALLOWABLE STOCKPILE AREA 4, SEE NOTE 4

- NOTES:**
- ALLOWABLE STOCKPILE AREA 1: STOCKPILES IN THIS AREA MAY INCLUDE WASTE, NON-WASTE, OR TOPSOIL AND SHALL NOT EXCEED AN ELEVATION OF 800'. SEE SHEET C-010 FOR ADDITIONAL DETAILS.
 - ALLOWABLE STOCKPILE AREA 2: STOCKPILES ALLOWED IN THIS AREA AFTER SURROUNDING FLOOD PROTECTION BERM IS CONSTRUCTED. STOCKPILES IN THIS AREA MAY INCLUDE NON-WASTE OR TOPSOIL AND SHALL NOT EXCEED AN ELEVATION OF 718'. NO WASTE STOCKPILES ALLOWED IN THIS AREA. SEE SHEET C-010 FOR ADDITIONAL DETAILS.
 - ALLOWABLE STOCKPILE AREA 3: STOCKPILES IN THIS AREA MAY INCLUDE WASTE, NON-WASTE, OR TOPSOIL AND SHALL NOT EXCEED AN ELEVATION OF 750'. SEE SHEET C-010 FOR ADDITIONAL DETAILS.
 - ALLOWABLE STOCKPILE AREA 4: STOCKPILES IN THIS AREA MAY INCLUDE NON-WASTE OR TOPSOIL AND SHALL NOT EXCEED AN ELEVATION OF 708'. SEE SHEET C-010 FOR ADDITIONAL DETAILS.
 - STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
 - PLACE STOCKPILES PER SPECIFICATION 31 23 00.
 - TEMPORARY EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE SHEETS C-020 AND C-022 FOR EROSION CONTROL PLAN.
 - INSTALL SEDIMENT CONTROL LOGS AROUND PERIMETER OF STOCKPILES PER DETAIL 2 ON SHEET C-025.
 - TEMPORARY SEED AND MULCH PER DETAIL 5 ON SHEET C-025.
 - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
 - MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.

1 PLAN: STAGING AREAS

0 300 600

SCALE IN FEET

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06/30/2022

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PRINTED NAME				
SIGNATURE				
DATE	LICENSE #			

CLIENT	06/30/2021	06/30/2022					
BID							
CONSTRUCTION							
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DATE RELEASED							

BARR Project Office:
BARR ENGINEERING CO.
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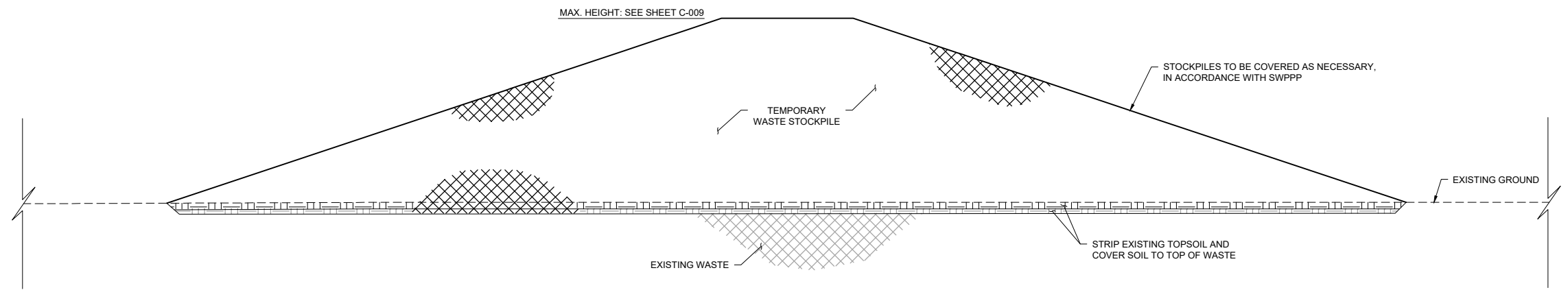
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

LANDFILL STAGING AREAS
PLAN

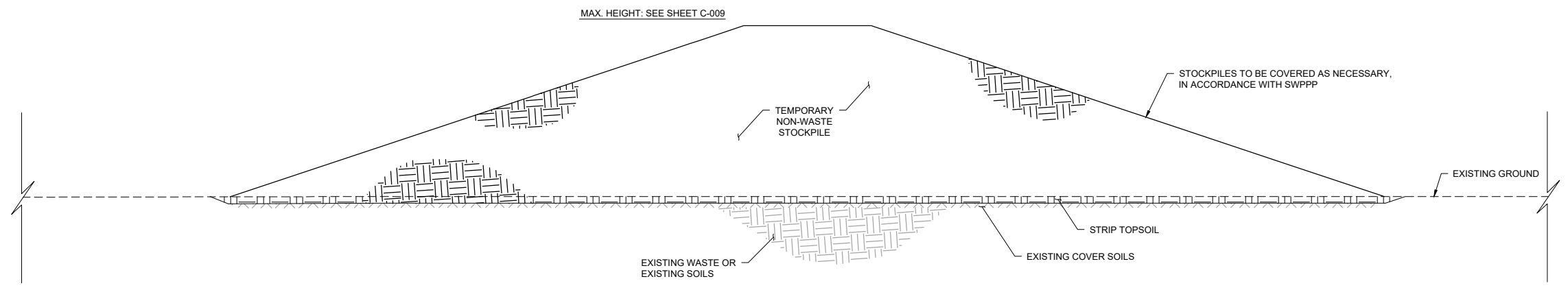
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CLIENT PROJECT No.	
DWG. No. C-009	REV. No. B

LEGEND

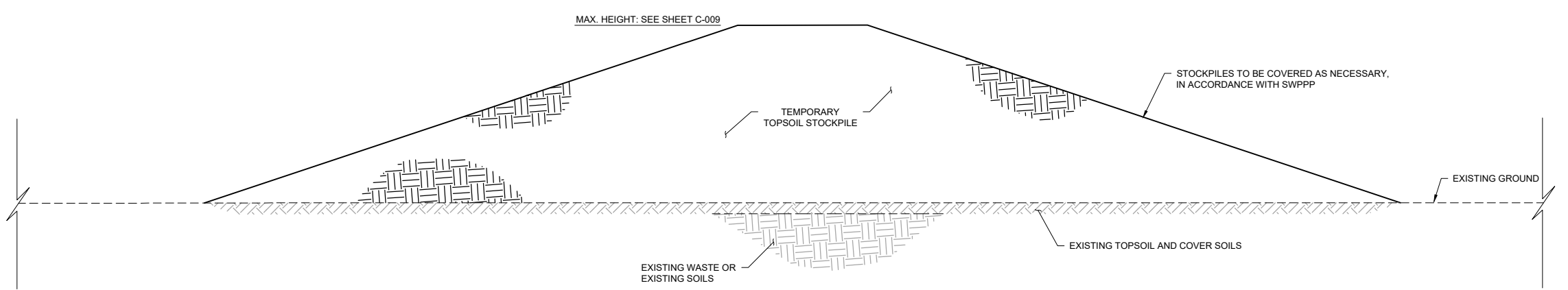
- EXISTING GROUND
- ===== TOP OF STOCKPILE
- [Hatched pattern] TOPSOIL
- [Cross-hatched pattern] COVER SOIL OVER STOCKPILE
- [Diagonal hatched pattern] EXISTING WASTE OR EXISTING SOILS
- [X-hatched pattern] STOCKPILED WASTE
- [Vertical hatched pattern] STOCKPILED NON-WASTE MATERIAL



1 SECTION: TEMPORARY WASTE STOCKPILE (TYP.)
NOT TO SCALE



2 SECTION: TEMPORARY NON-WASTE STOCKPILE (TYP.)
NOT TO SCALE



3 SECTION: TEMPORARY TOPSOIL STOCKPILE (TYP.)
NOT TO SCALE

- NOTES:**
1. PLACE STOCKPILES IN LOCATIONS AND TO MAXIMUM ELEVATIONS AS SHOWN ON SHEET C-009.
 2. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
 3. PLACE STOCKPILES PER SPECIFICATION 31 23 00. PLACE TEMPORARY WASTE STOCKPILES PER SPECIFICATION 31 23 16.
 4. TEMPORARY EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE SHEETS C-020 AND C-022 FOR EROSION CONTROL PLAN.
 5. INSTALL SEDIMENT CONTROL LOGS AROUND PERIMETER OF STOCKPILES PER DETAIL 2 ON SHEET C-025.
 6. TEMPORARY SEED AND MULCH PER DETAIL 5 ON SHEET C-025.
 7. STOCKPILE MATERIALS AT SAFE SLOPES IN ACCORDANCE WITH OSHA.
 8. STABILIZE STOCKPILES PER SWPPP.

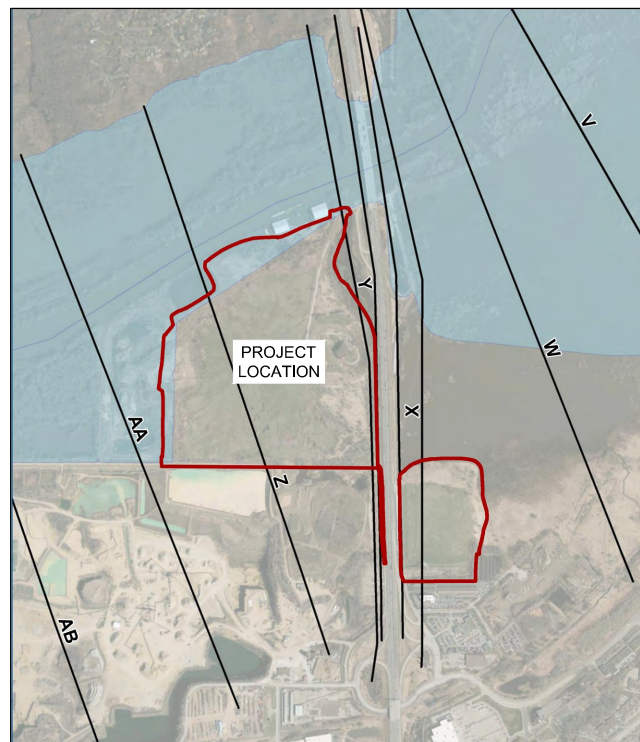
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE # _____				CLIENT BID CONSTRUCTION		06/30/2021 06/30/2022		Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale: AS SHOWN Date: 02/11/2020 Drawn: AWT Checked: BDP Designed: BARR Approved: -		FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA		BARR PROJECT No. 23/19-1372.00	
				RELEASED TO/FOR		DATE RELEASED				MINNESOTA POLLUTION CONTROL AGENCY		STAGING AND STOCKPILE SECTIONS		CLIENT PROJECT No.	



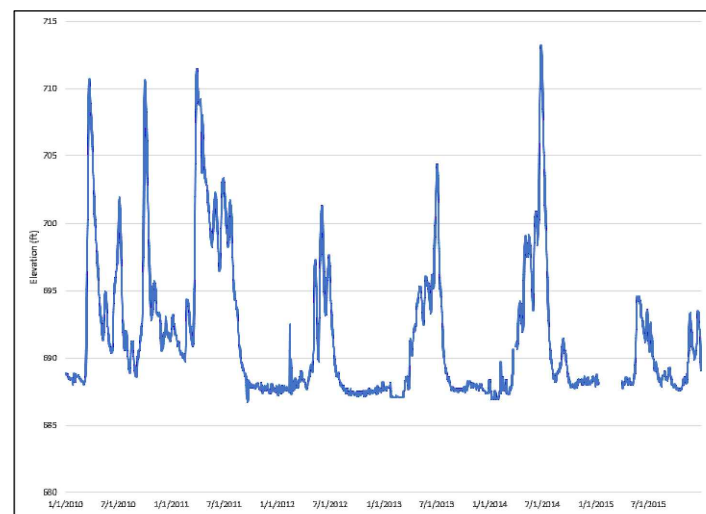
1 PLAN: GAGE STATION AND PROJECT LOCATION MAP
NOT TO SCALE



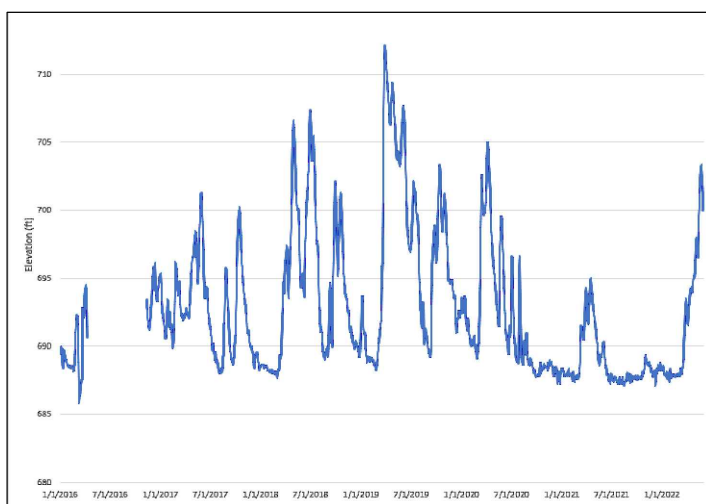
4 PLAN: FEMA FLOOD MAP
NOT TO SCALE

RETURN PERIOD	FLOW (CFS)	WATER SURFACE ELEVATION (FT)	VELOCITY (FT/S)
LOW FLOW (NWE)	380	693.7	-
10% ANNUAL CHANCE FLOOD	48,500	707.3	3.5
2% ANNUAL CHANCE FLOOD	85,300	713.5	4.1
1% ANNUAL CHANCE FLOOD	103,000	715.9	4.3
0.2% ANNUAL CHANCE FLOOD	148,000	721.6	4.8

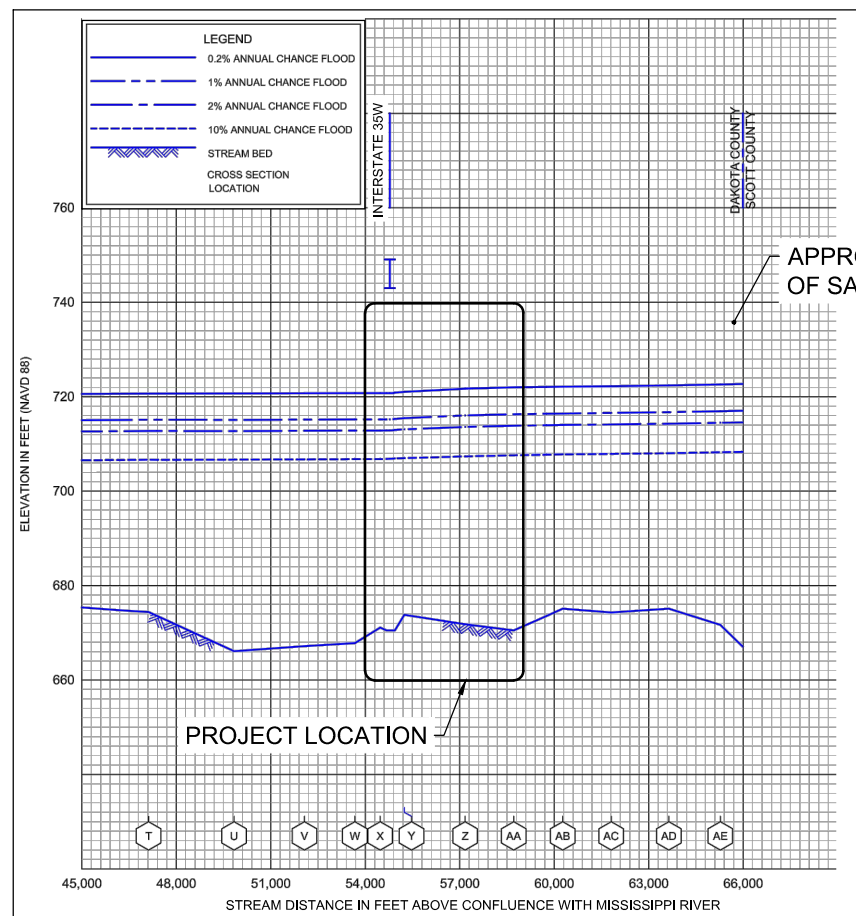
6 TABLE: ESTIMATED PEAK FLOW HYDRAULIC CONDITIONS AT FEMA CROSS SECTION Z



2 DETAIL: OBSERVED DAILY AVERAGE WATER ELEVATION AT SAVAGE GAGE (2010-2015)



3 DETAIL: OBSERVED DAILY AVERAGE WATER ELEVATION AT SAVAGE GAGE (2011-MAY 2022)



5 DETAIL: FEMA FLOOD PROFILE

NOTES:

- OBSERVED WATER LEVELS REPRESENT DATA AT SAVAGE GATE. DATA DOWNLOADED FROM <https://www.mvp-wc.usace.army.mil/data/Savage.Data.shtml>.
- DATA REMOVED FROM SEVERAL DATES AND TIME PERIODS DURING WHICH THE GAGE DID NOT APPEAR TO BE FUNCTIONING PROPERLY. THOSE DATES AND RANGES INCLUDE: 11/26/13, 3/23/14 - 3/31/14, 1/1/15 - 3/31/15, AND 4/10/16 - 11/9/16.
- ADDITIONAL WATER LEVEL INFORMATION AVAILABLE AT WEBSITE LISTED ABOVE AND AT <https://water.weather.gov/ahps2/hydrograph.php?gage=savm5&wfo=mpx>
- ELEVATION DATA PROVIDED FOR INFORMATIONAL PURPOSES ONLY. ACCURACY NOT GUARANTEED. FUTURE CONDITIONS MAY VARY.

CADD USER: Andrea W. Talkner; FILE: M:\DESIGN\2019\1372\06\2019\137205_LINE_C-011.DWG; PLOT SCALE: 1:2; PLOT DATE: 6/28/2022 2:38 PM
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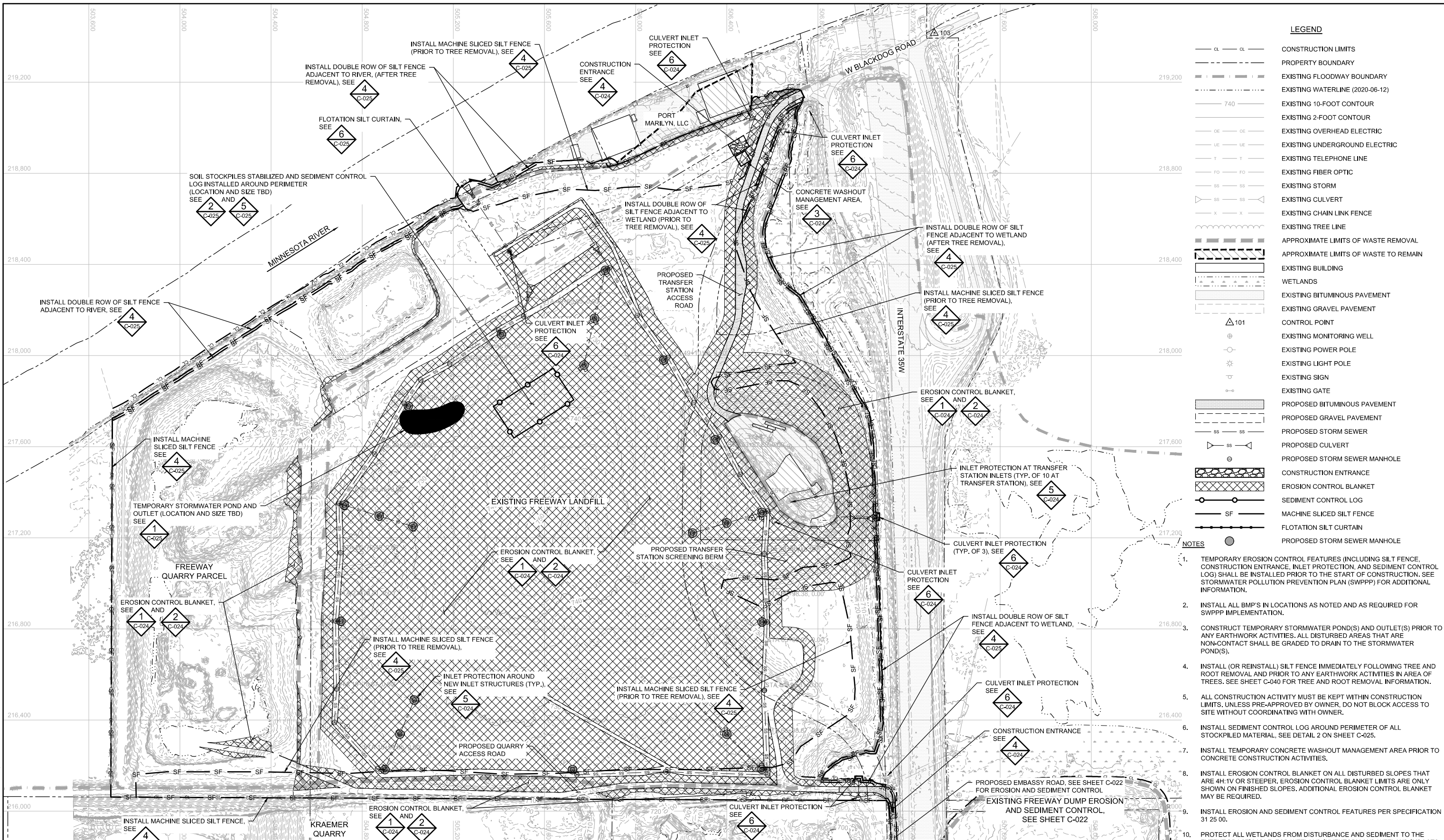
Scale	AS SHOWN
Date	06/05/2020
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	-



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA
HYDRAULICS AND HYDROLOGY

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-011
REV. No.	B

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022



LEGEND

- CL — CL — CONSTRUCTION LIMITS
- PROPERTY BOUNDARY
- EXISTING FLOODWAY BOUNDARY
- 740 --- EXISTING WATERLINE (2020-06-12)
- EXISTING 10-FOOT CONTOUR
- EXISTING 2-FOOT CONTOUR
- OE --- OE --- EXISTING OVERHEAD ELECTRIC
- UE --- UE --- EXISTING UNDERGROUND ELECTRIC
- T --- T --- EXISTING TELEPHONE LINE
- FO --- FO --- EXISTING FIBER OPTIC
- SS --- SS --- EXISTING STORM
- X --- X --- EXISTING CULVERT
- X --- X --- EXISTING CHAIN LINK FENCE
- EXISTING TREE LINE
- APPROXIMATE LIMITS OF WASTE REMOVAL
- APPROXIMATE LIMITS OF WASTE TO REMAIN
- EXISTING BUILDING
- WETLANDS
- EXISTING BITUMINOUS PAVEMENT
- EXISTING GRAVEL PAVEMENT
- △ 101 CONTROL POINT
- ⊕ EXISTING MONITORING WELL
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING LIGHT POLE
- ⊙ EXISTING SIGN
- ⊙ EXISTING GATE
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED GRAVEL PAVEMENT
- SS --- SS --- PROPOSED STORM SEWER
- PROPOSED CULVERT
- ⊙ PROPOSED STORM SEWER MANHOLE
- CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- SEDIMENT CONTROL LOG
- SF --- SF --- MACHINE SLICED SILT FENCE
- FLOTATION SILT CURTAIN
- ⊙ PROPOSED STORM SEWER MANHOLE

- NOTES**
1. TEMPORARY EROSION CONTROL FEATURES (INCLUDING SILT FENCE, CONSTRUCTION ENTRANCE, INLET PROTECTION, AND SEDIMENT CONTROL LOG) SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ADDITIONAL INFORMATION.
 2. INSTALL ALL BMP'S IN LOCATIONS AS NOTED AND AS REQUIRED FOR SWPPP IMPLEMENTATION.
 3. CONSTRUCT TEMPORARY STORMWATER POND(S) AND OUTLET(S) PRIOR TO ANY EARTHWORK ACTIVITIES. ALL DISTURBED AREAS THAT ARE NON-CONTACT SHALL BE GRADED TO DRAIN TO THE STORMWATER POND(S).
 4. INSTALL (OR REINSTALL) SILT FENCE IMMEDIATELY FOLLOWING TREE AND ROOT REMOVAL AND PRIOR TO ANY EARTHWORK ACTIVITIES IN AREA OF TREES. SEE SHEET C-040 FOR TREE AND ROOT REMOVAL INFORMATION.
 5. ALL CONSTRUCTION ACTIVITY MUST BE KEPT WITHIN CONSTRUCTION LIMITS, UNLESS PRE-APPROVED BY OWNER. DO NOT BLOCK ACCESS TO SITE WITHOUT COORDINATING WITH OWNER.
 6. INSTALL SEDIMENT CONTROL LOG AROUND PERIMETER OF ALL STOCKPILED MATERIAL. SEE DETAIL 2 ON SHEET C-025.
 7. INSTALL TEMPORARY CONCRETE WASHOUT MANAGEMENT AREA PRIOR TO CONCRETE CONSTRUCTION ACTIVITIES.
 8. INSTALL EROSION CONTROL BLANKET ON ALL DISTURBED SLOPES THAT ARE 4H:1V OR STEEPER. EROSION CONTROL BLANKET LIMITS ARE ONLY SHOWN ON FINISHED SLOPES. ADDITIONAL EROSION CONTROL BLANKET MAY BE REQUIRED.
 9. INSTALL EROSION AND SEDIMENT CONTROL FEATURES PER SPECIFICATION 31 25 00.
 10. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
 11. TEMPORARY SEED AND MULCH PER DETAIL 5 OF SHEET C-025.
 12. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.

1 PLAN: EROSION AND SEDIMENT CONTROL

0 200 400
SCALE IN FEET

CADD USER: Andrea W. Tolkmier FILE: M:\DESIGN\23191372\06_23_19\137205_LINE_C-020.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 1:12 PM
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CLIENT	06/30/2021	06/30/2021								
BID										
CONSTRUCTION										
RELEASED TO/FOR	A	B	C	0	1	2	3			
DATE RELEASED										

BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
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 MINNEAPOLIS, MN 55435

Project Office:
 BARR ENGINEERING CO.
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 www.barr.com

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Date	06/11/2020
Drawn	ADB2
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Designed	BARR
Approved	

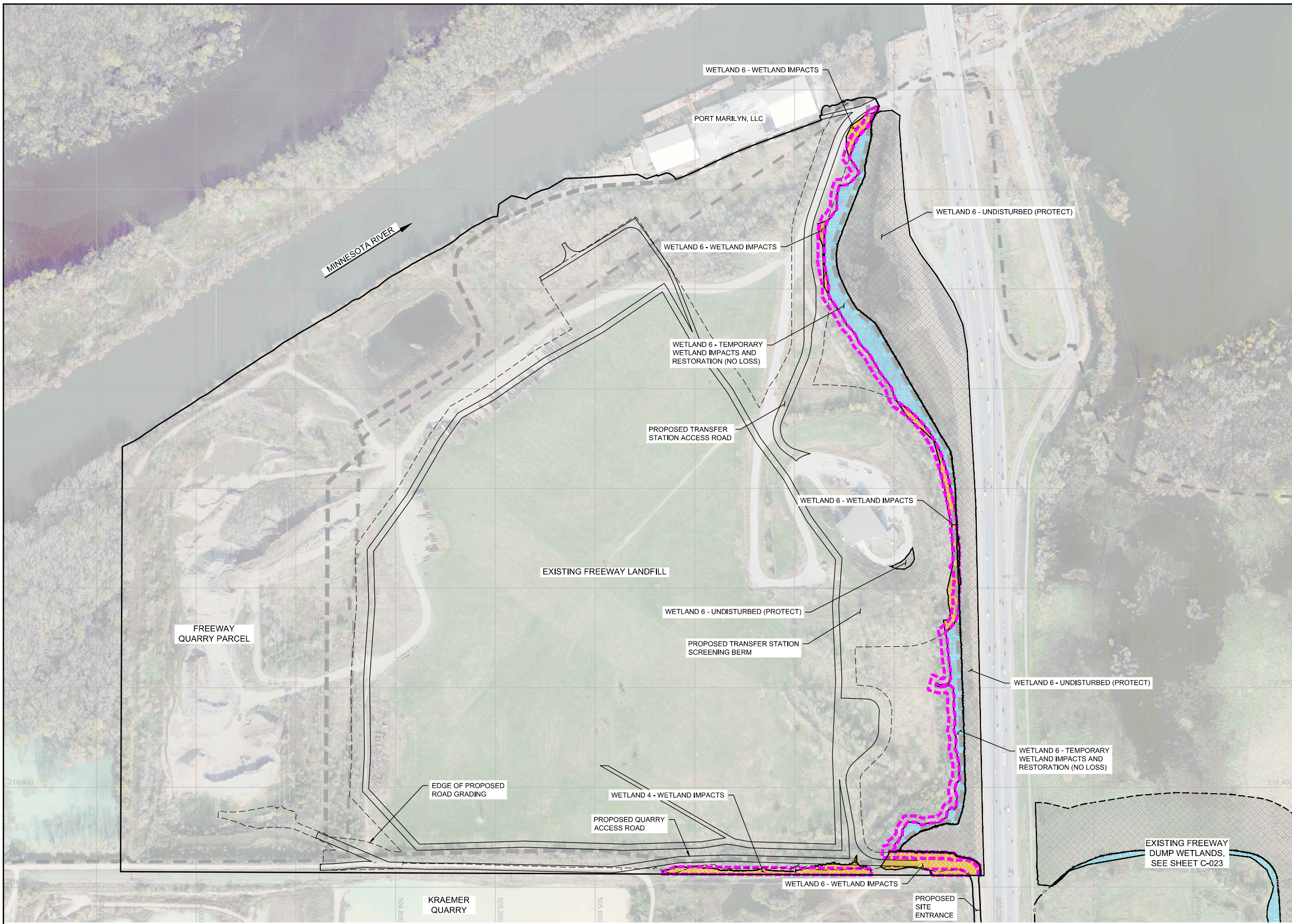
MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA

LANDFILL EROSION CONTROL
 PLAN

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-020
REV. No.	B

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 06/30/2022



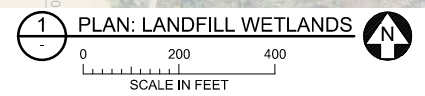
LEGEND

— CL — CL —	CONSTRUCTION LIMITS
- - - - -	EXISTING FLOODWAY BOUNDARY
- - - - -	TOE OF PROPOSED SLOPE
- - - - -	25-FOOT WETLAND BUFFER EXTENT
- - - - -	APPROXIMATE LIMITS OF WASTE REMOVAL
▭	PROPOSED ROAD
▨	WETLAND, UNDISTURBED (PROTECT)
▩	WETLAND IMPACTS
▧	TEMPORARY WETLAND IMPACTS AND RESTORATION (NO LOSS)

- NOTES**
1. ALL CONSTRUCTION ACTIVITY MUST BE KEPT WITHIN CONSTRUCTION LIMITS, UNLESS OTHERWISE DIRECTED BY OWNER.
 2. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE, UNLESS NOTED OTHERWISE.
 3. RESTORE WETLANDS AND 25-FOOT WETLAND BUFFER PER SPECIFICATION 32 92 00. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
 4. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.

TOTAL WETLAND AREAS (LANDFILL)	
WETLAND TYPE	AREA (AC)
WETLAND (TOTAL DELINEATED)	16.1
▩ WETLAND IMPACTS	2.0
▧ TEMPORARY WETLAND IMPACTS AND RESTORATION (NO LOSS)	3.2

- TABLE NOTES**
1. TABLE ONLY REFLECTS DELINEATED WETLANDS AT LANDFILL. FOR WETLANDS DELINEATED AT DUMP, SEE SHEET C-023.



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06/30/2022

CADD USER: Andrea W. Tolkmier FILE: M:\DESIGN\2019\137205\LINE_C-021.DWG PLOT SCALE: 1:2 PLOT DATE: 6/28/2022 4:53 PM

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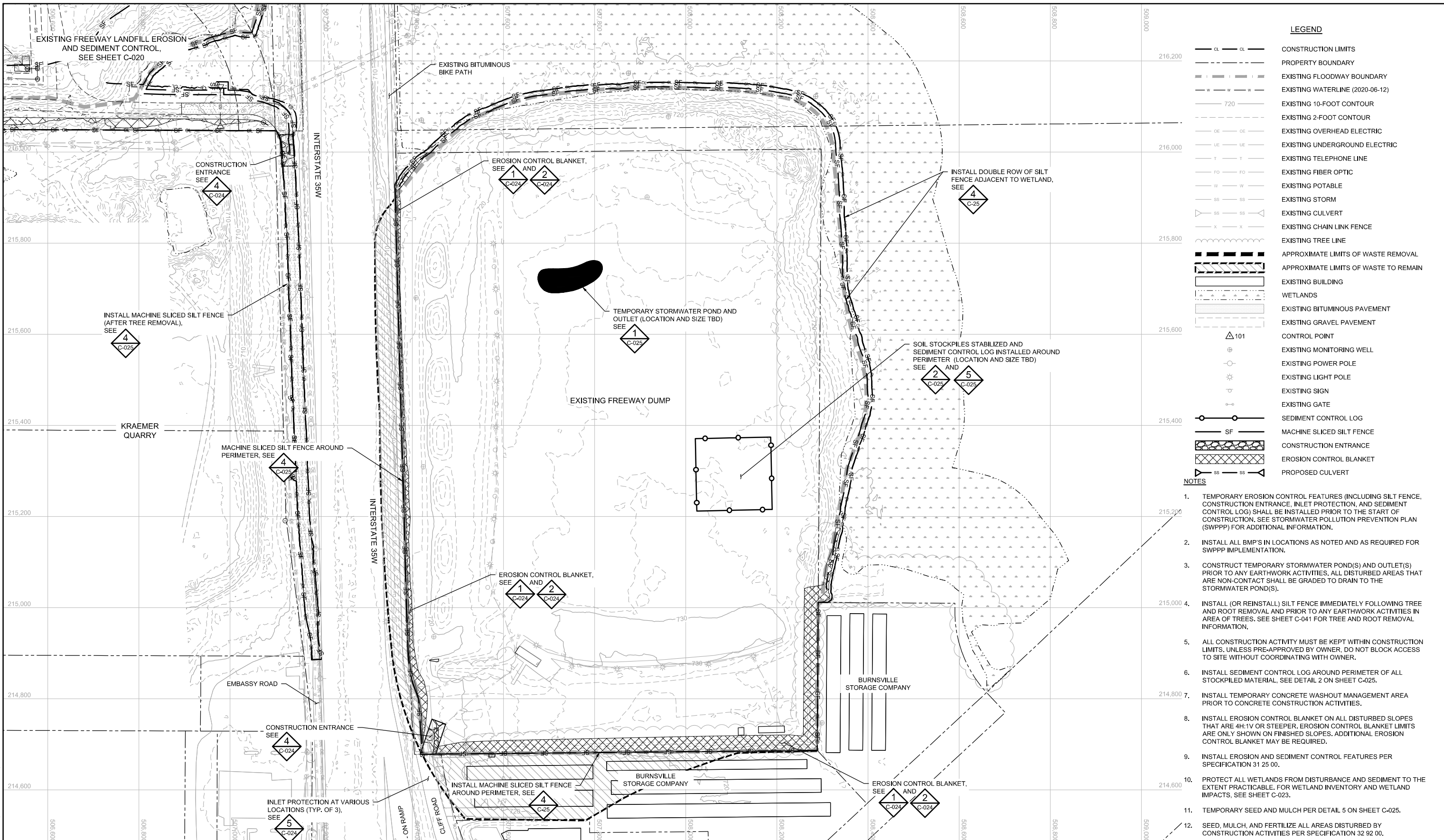
CLIENT	BARR ENGINEERING CO.
BID	4300 MARKETPOINTE DRIVE
CONSTRUCTION	Suite 200
	MINNEAPOLIS, MN 55435
	Ph: 1-800-632-2277
	Fax: (952) 832-2601
	www.barr.com

Scale	AS SHOWN
Date	06/11/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-

MINNESOTA POLLUTION CONTROL AGENCY

FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE	
BURNSVILLE, MINNESOTA	
LANDFILL WETLANDS PLAN	

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-021
REV. No.	B



LEGEND

CL	CL	CONSTRUCTION LIMITS
---	---	PROPERTY BOUNDARY
---	---	EXISTING FLOODWAY BOUNDARY
W	W	EXISTING WATERLINE (2020-06-12)
720		EXISTING 10-FOOT CONTOUR
---	---	EXISTING 2-FOOT CONTOUR
OE	OE	EXISTING OVERHEAD ELECTRIC
UE	UE	EXISTING UNDERGROUND ELECTRIC
T	T	EXISTING TELEPHONE LINE
FO	FO	EXISTING FIBER OPTIC
W	W	EXISTING POTABLE
SS	SS	EXISTING STORM
SS	SS	EXISTING CULVERT
X	X	EXISTING CHAIN LINK FENCE
---	---	EXISTING TREE LINE
---	---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	---	EXISTING BUILDING
---	---	WETLANDS
---	---	EXISTING BITUMINOUS PAVEMENT
---	---	EXISTING GRAVEL PAVEMENT
△ 101		CONTROL POINT
⊕		EXISTING MONITORING WELL
⊙		EXISTING POWER POLE
☆		EXISTING LIGHT POLE
+		EXISTING SIGN
⊖		EXISTING GATE
○	○	SEDIMENT CONTROL LOG
SF		MACHINE SLICED SILT FENCE
---	---	CONSTRUCTION ENTRANCE
---	---	EROSION CONTROL BLANKET
---	---	PROPOSED CULVERT

- NOTES**
1. TEMPORARY EROSION CONTROL FEATURES (INCLUDING SILT FENCE, CONSTRUCTION ENTRANCE, INLET PROTECTION, AND SEDIMENT CONTROL LOG) SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION, SEE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ADDITIONAL INFORMATION.
 2. INSTALL ALL BMP'S IN LOCATIONS AS NOTED AND AS REQUIRED FOR SWPPP IMPLEMENTATION.
 3. CONSTRUCT TEMPORARY STORMWATER POND(S) AND OUTLET(S) PRIOR TO ANY EARTHWORK ACTIVITIES. ALL DISTURBED AREAS THAT ARE NON-CONTACT SHALL BE GRADED TO DRAIN TO THE STORMWATER POND(S).
 4. INSTALL (OR REINSTALL) SILT FENCE IMMEDIATELY FOLLOWING TREE AND ROOT REMOVAL AND PRIOR TO ANY EARTHWORK ACTIVITIES IN AREA OF TREES. SEE SHEET C-041 FOR TREE AND ROOT REMOVAL INFORMATION.
 5. ALL CONSTRUCTION ACTIVITY MUST BE KEPT WITHIN CONSTRUCTION LIMITS. UNLESS PRE-APPROVED BY OWNER, DO NOT BLOCK ACCESS TO SITE WITHOUT COORDINATING WITH OWNER.
 6. INSTALL SEDIMENT CONTROL LOG AROUND PERIMETER OF ALL STOCKPILED MATERIAL. SEE DETAIL 2 ON SHEET C-025.
 7. INSTALL TEMPORARY CONCRETE WASHOUT MANAGEMENT AREA PRIOR TO CONCRETE CONSTRUCTION ACTIVITIES.
 8. INSTALL EROSION CONTROL BLANKET ON ALL DISTURBED SLOPES THAT ARE 4H:1V OR STEEPER. EROSION CONTROL BLANKET LIMITS ARE ONLY SHOWN ON FINISHED SLOPES. ADDITIONAL EROSION CONTROL BLANKET MAY BE REQUIRED.
 9. INSTALL EROSION AND SEDIMENT CONTROL FEATURES PER SPECIFICATION 31 25 00.
 10. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
 11. TEMPORARY SEED AND MULCH PER DETAIL 5 ON SHEET C-025.
 12. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
 13. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.

1 PLAN: DUMP EROSION AND SEDIMENT CONTROL

SCALE IN FEET

0 100 200

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

CADD USER: Andrea W. Tolkmier FILE: M:\DESIGN\2019\137205_DIG AND LINE_C-022.DWG PLOT SCALE: 1:2 PLOT DATE: 6/28/2022 4:56 PM
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CONSTRUCTION							
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DATE RELEASED							

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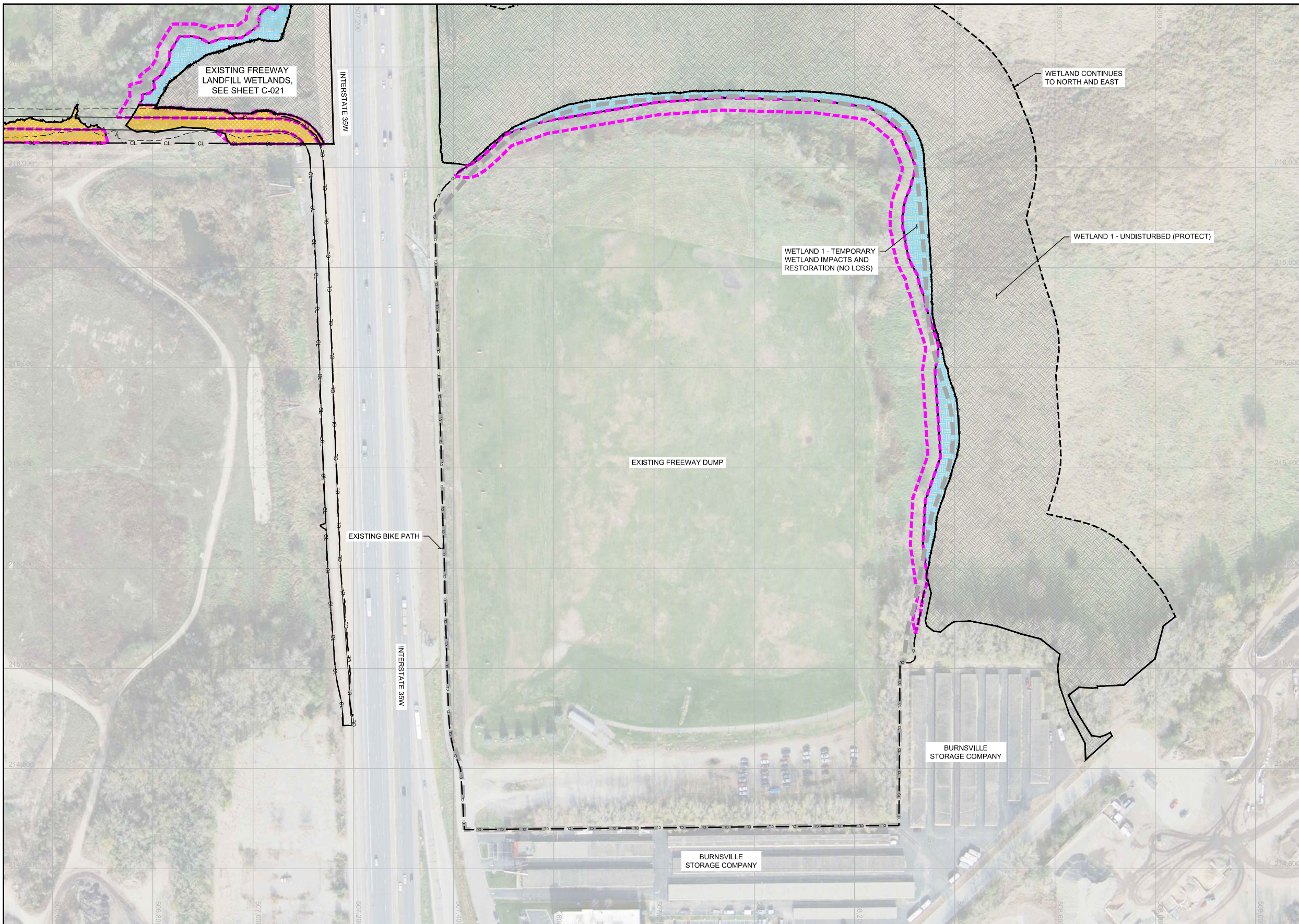
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Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	



FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

DUMP EROSION CONTROL
PLAN

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-022
REV. No.	B



LEGEND

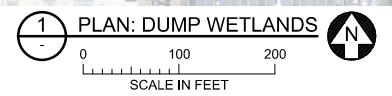
— CL — CL —	CONSTRUCTION LIMITS
- - - - -	EXISTING FLOODWAY BOUNDARY
- - - - -	TOE OF PROPOSED SLOPE
- - - - -	25-FOOT WETLAND BUFFER EXTENT
- - - - -	APPROXIMATE LIMITS OF WASTE REMOVAL
□	PROPOSED ROAD
▨	WETLAND, UNDISTURBED (PROTECT)
▩	WETLAND IMPACTS
▧	TEMPORARY WETLAND IMPACTS AND RESTORATION (NO LOSS)

- NOTES**
1. ALL CONSTRUCTION ACTIVITY MUST BE KEPT WITHIN CONSTRUCTION LIMITS, UNLESS OTHERWISE DIRECTED BY OWNER.
 2. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE, UNLESS NOTED OTHERWISE.
 3. RESTORE WETLANDS AND 25-FOOT WETLAND BUFFER PER SPECIFICATION 32 92 00. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
 4. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.

TOTAL WETLAND AREAS (DUMP)

WETLAND TYPE	AREA (AC)
WETLAND (TOTAL DELINEATED)	13.6
▩ WETLAND IMPACTS	NONE
▧ TEMPORARY WETLAND IMPACTS AND RESTORATION (NO LOSS)	0.9

- TABLE NOTES**
1. TABLE ONLY REFLECTS DELINEATED WETLANDS AT DUMP. FOR WETLANDS DELINEATED AT LANDFILL, SEE SHEET C-021.



100% DRAFT
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06/30/2022

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PRINTED NAME: _____
SIGNATURE: _____
DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED

BARR
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Fax: (952) 832-2601
www.barr.com

Project Office:
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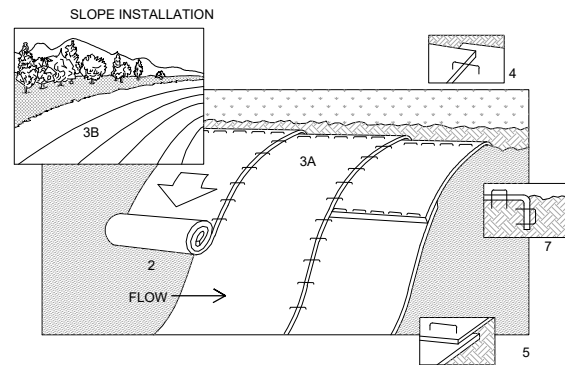
Scale	AS SHOWN
Date	06/11/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-



FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

DUMP WETLANDS
PLAN

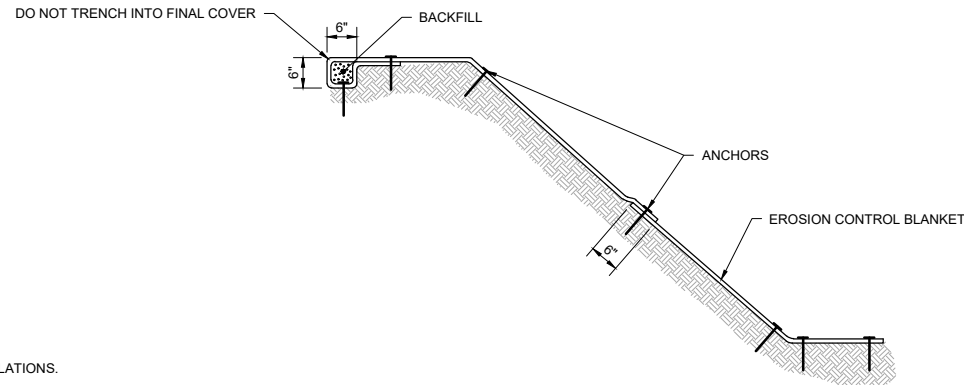
BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-023	REV. No. B



NOTES:

1. REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR SLOPE INSTALLATIONS.
2. PREPARE SOIL BY LOOSENING TOP 1-2 INCHES AND APPLY SEED (AND FERTILIZER WHERE REQUIRED) PRIOR TO INSTALLING BLANKETS. GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS.
3. BEGIN (A) AT THE TOP OF THE SLOPE AND ROLL THE BLANKETS DOWN OR (B) AT ONE END OF THE SLOPE AND ROLL THE BLANKETS HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.
5. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. BLANKET MATERIALS SHALL BE AS SPECIFIED OR AS APPROVED BY ENGINEER.
7. ANCHOR EROSION CONTROL BLANKET AT THE TOP OF SLOPE.

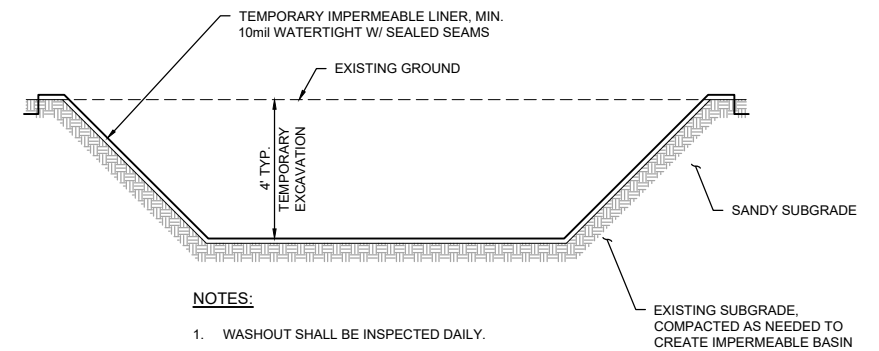
1 **DETAIL: EROSION CONTROL BLANKET - INSTALLATION**
C-020, C-022 NOT TO SCALE



NOTES:

1. REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR SLOPE INSTALLATIONS.
2. PREPARE SOIL BY LOOSENING TOP 1-2 INCHES AND APPLY SEED (AND FERTILIZER WHERE REQUIRED) PRIOR TO INSTALLING BLANKETS. GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS.
3. BLANKET MATERIALS SHALL BE AS SPECIFIED OR AS APPROVED BY ENGINEER.

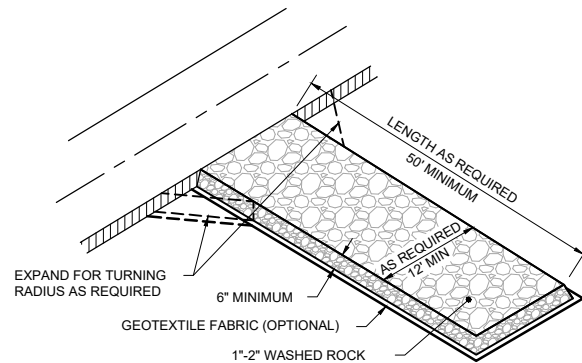
2 **DETAIL: EROSION CONTROL BLANKET - ANCHOR TRENCH**
C-020, C-022 NOT TO SCALE



NOTES:

1. WASHOUT SHALL BE INSPECTED DAILY.
2. WASHOUT USE SHALL FOLLOW ALL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) RECOMMENDATIONS.
3. PLAN DIMENSIONS: 10'x10'.
4. MANAGEMENT, DISCHARGE, AND DISPOSAL OF CONCRETE WASHOUT SHALL BE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE WORK.
5. PREVENT CONCRETE WASHOUT FROM FLOWING INTO GROUNDWATER OR SANDY SUBSOILS.
6. CONTRACTOR MAY SUBMIT ALTERNATE "OR EQUAL" TO ENGINEER FOR APPROVAL. CONCRETE WASHOUT AT THE BATCH PLANT IS AN ACCEPTABLE ALTERNATE.

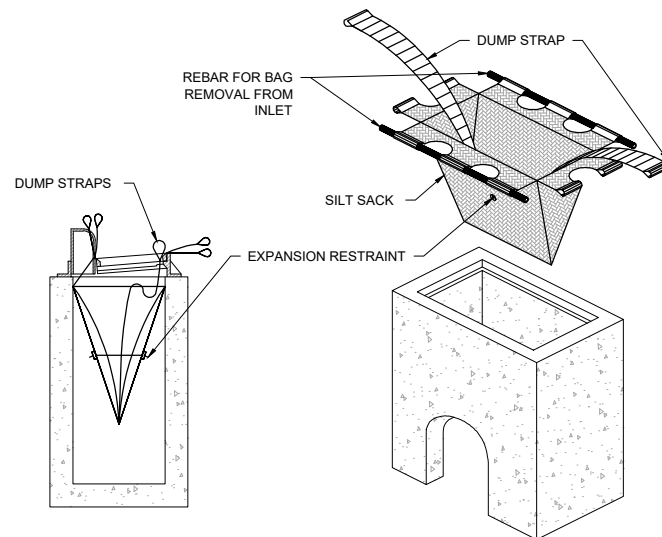
3 **DETAIL: CONCRETE WASHOUT MANAGEMENT AREA**
C-020 NOT TO SCALE



NOTES:

1. MAINTAIN ENTRANCE THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR OR REPLACE AS REQUIRED TO PREVENT TRACKING OFFSITE.
2. REMOVE ENTRANCE IN CONJUNCTION WITH FINAL GRADING AND SITE STABILIZATION.

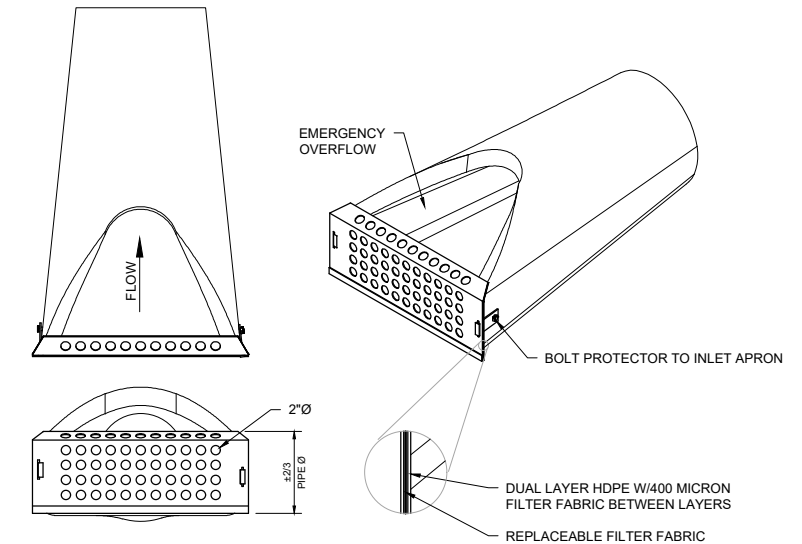
4 **DETAIL: CONSTRUCTION ENTRANCE - ROCK**
C-20, C-022 NOT TO SCALE



NOTES:

1. INSTALL INLET PROTECTION PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED OR IMMEDIATELY FOLLOWING ANY CATCHBASIN INSTALLATION AND MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD.
2. MATERIALS SHALL BE SUFFICIENT TO ALLOW FLOW WHILE BLOCKING SEDIMENT. NO HOLES OR GAPS SHALL BE PRESENT IN/AROUND FILTER SACK.
3. CLEAN FILTER SACK AND REMOVE ACCUMULATED SEDIMENT AS REQUIRED TO ALLOW FLOW INTO THE CATCHBASIN AND PREVENT SEDIMENT FROM LEAVING THE DEVICE.
4. REMOVE DEVICE AND ANY ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

5 **DETAIL: INLET PROTECTION - FILTER SACK**
C-020, C-022 NOT TO SCALE



NOTES:

1. FILTER FABRIC MAY BE REPLACED BY REMOVING BOLTS/RIVETS CONNECTING HDPE LAYERS AND BOLTING/RIVETING BACK TOGETHER.
2. INLET PROTECTION SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED OR REPLACED AS REQUIRED.
3. INLET PROTECTION SHALL BE REMOVED IN CONJUNCTION WITH SITE STABILIZATION.
4. PRODUCT AND MATERIALS SHALL CONFORM TO MN/DOT SPECIFICATION 3891.
5. ALTERNATIVE CULVERT INLET PROTECTION MAY CONSIST OF DUAL BIOLOGS OR OTHER COMPANY APPROVED METHODS.

6 **DETAIL: CULVERT INLET PROTECTION**
C-020 NOT TO SCALE

CADD USER: Jack A. Mettich FILE: M:\DESIGN\23191372\052319137205_LINE_C-024.DWG PLOT SCALE: 1:2 PLOT DATE: 06/30/2022 12:29 PM

BARR M:\AutoCAD\2011\AutoCAD 2011 Support\new\template\Bar_2011_Template.dwg Plot at 1: 10/06/2010 14:09:50

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SIGNATURE				
DATE	LICENSE #			

CLIENT	06/30/2021	06/30/2021					
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

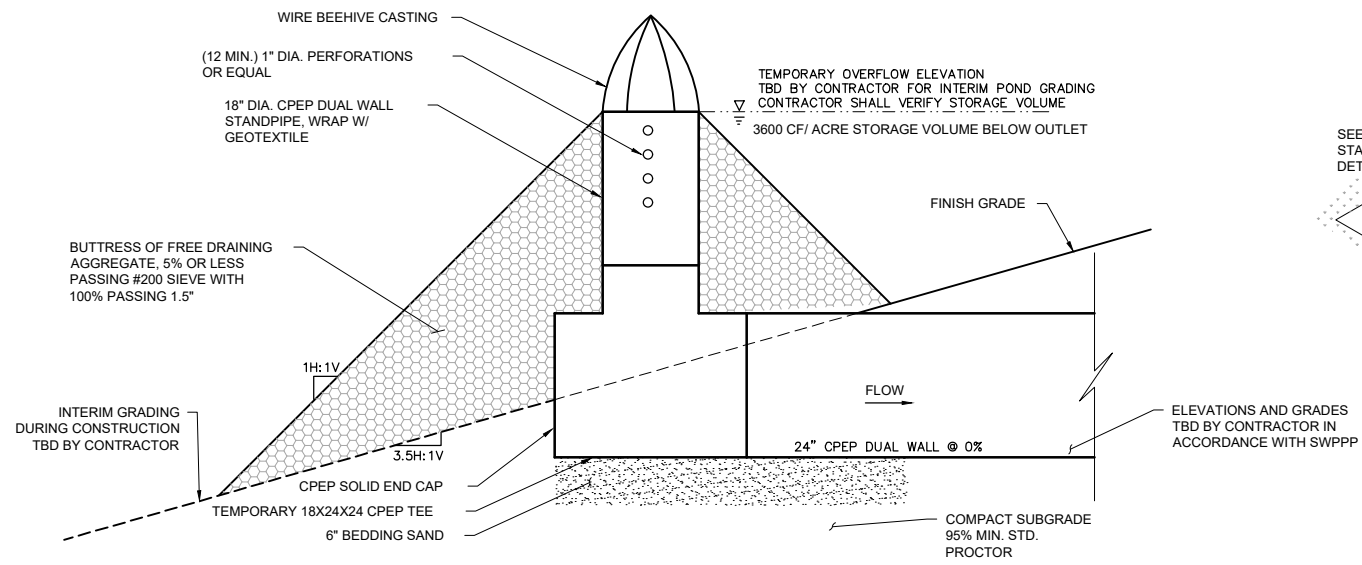
BARR Project Office:
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4300 MARKETPOINTE DRIVE
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MINNEAPOLIS, MN 55435
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Fax: (952) 832-2601
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Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-

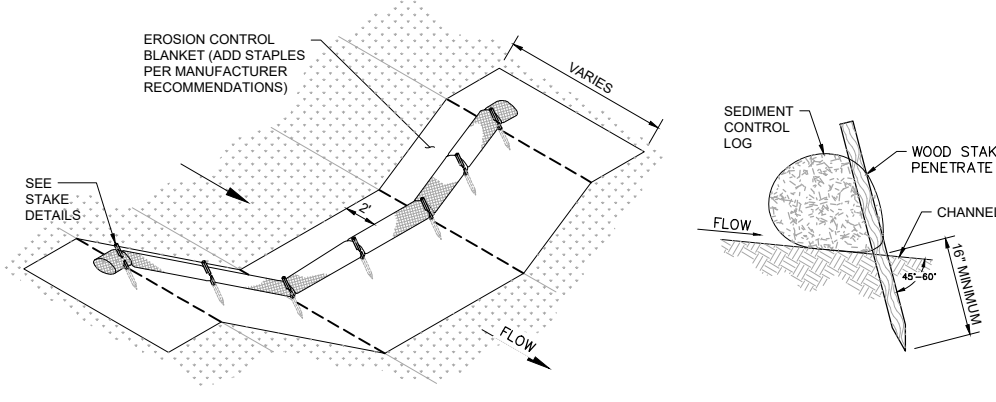
MINNESOTA POLLUTION CONTROL AGENCY

FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA		BARR PROJECT No. 23/19-1372.00
EROSION CONTROL DETAILS 1 OF 2		CLIENT PROJECT No.
DWG. No. C-024	REV. No. B	

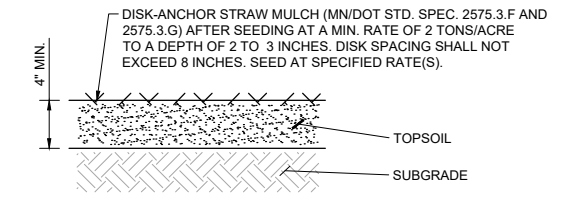
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NOT FOR CONSTRUCTION
06/30/2022



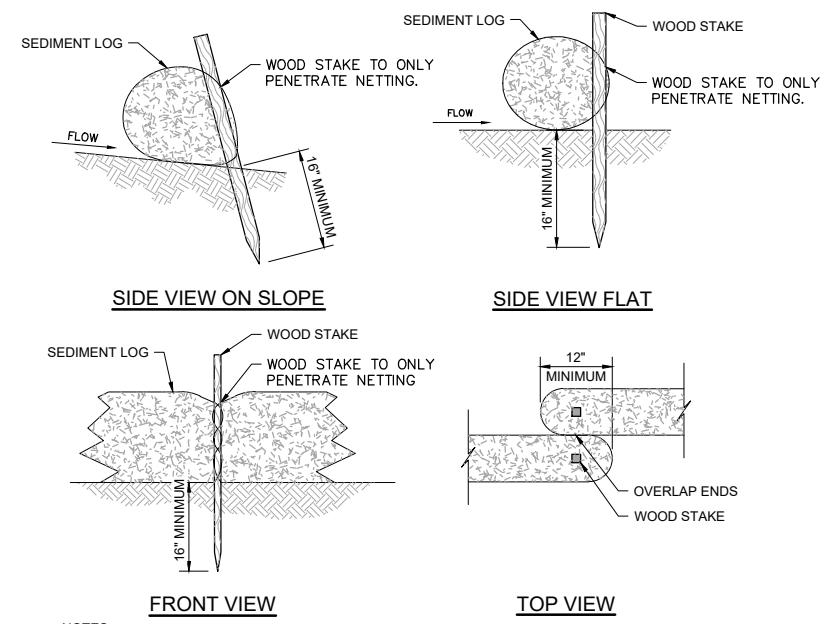
1 DETAIL: TEMPORARY SEDIMENTATION BASIN AND TEMPORARY OUTLET
C-020, C-022 NOT TO SCALE



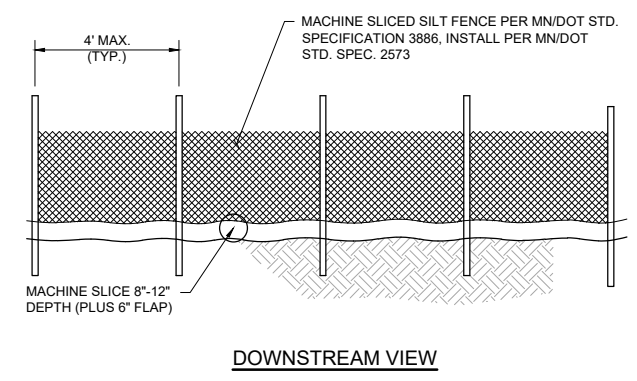
3 DETAIL: SEDIMENT CONTROL LOG - DITCH CHECK WITH BLANKET
C-020 NOT TO SCALE



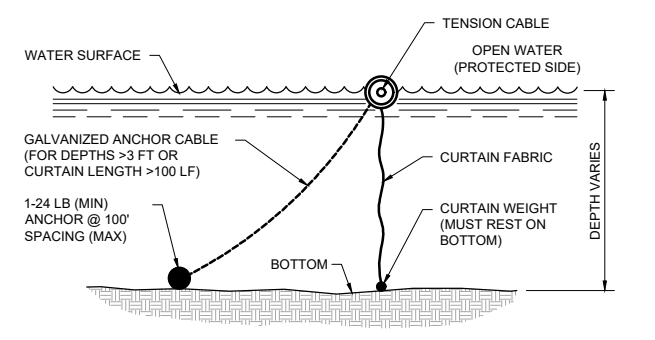
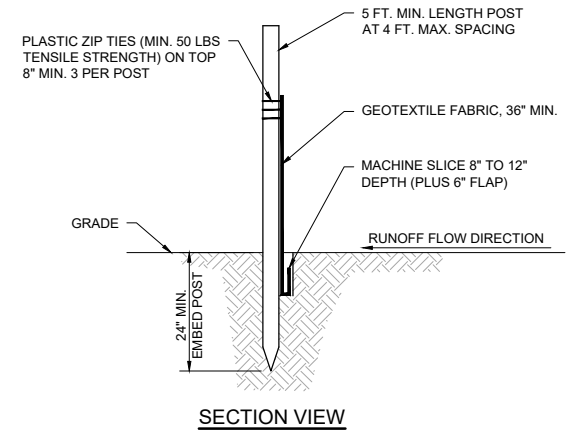
5 DETAIL: TEMPORARY SEED AND MULCH
C-020, C-022 NOT TO SCALE



2 DETAIL: SEDIMENT CONTROL LOG - STAKING
C-020, C-022 NOT TO SCALE



4 DETAIL: SILT FENCE - MACHINE SLICED
C-020, C-022 NOT TO SCALE



6 DETAIL: FLOTATION SILT CURTAIN
C-020 NOT TO SCALE

- NOTES:**
- INSTALL SEDIMENT CONTROL LOG ALONG CONTOURS (CONSTANT ELEVATION).
 - NO GAPS SHALL BE PRESENT UNDER SEDIMENT CONTROL LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
 - REMOVE ACCUMULATED SEDIMENT WHEN REACHING 1/3 OF LOG HEIGHT.
 - MAINTAIN SEDIMENT CONTROL LOG THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR OR REPLACED AS REQUIRED.

- NOTES:**
- INSTALL SILT FENCE PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED AND MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD. REMOVE SILT FENCE AND ANY ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 - SILT FENCE MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF MN/DOT SPECIFICATIONS 2573 AND 3886.
 - NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER SILT FENCE. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
 - REMOVE ACCUMULATED SEDIMENT WHEN BUILD UP REACHES 1/3 OF FENCE HEIGHT. OR INSTALL A SECOND SILT FENCE DOWNSTREAM OF THE ORIGINAL FENCE AT A SUITABLE DISTANCE.
 - WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP, THEN DRIVE BOTH POSTS AND BURY THE FLAP AND COMPACT BACKFILL.

- NOTES:**
- SILT CURTAIN SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES IN AREAS DRAINING TO OPEN WATER.
 - ANCHOR TENSION CABLE AT SHORE AT BOTH ENDS WITH STEEL POSTS OF DIAMETER AND LENGTH SUFFICIENT TO PREVENT BENDING AND PULL-OUT.
 - ELIMINATE ANCHOR AND CABLE FOR WATER DEPTHS LESS THAN 3'-0" OR DISTANCE BETWEEN SHORE ANCHORS FOR TENSION CABLE OF LESS THAN 100'.
 - CURTAIN WEIGHT SHALL BE HEAVY ENOUGH TO HOLD CURTAIN VERTICAL IN CURRENT AND WAVES TYPICAL FOR THE SITE.
 - SILT CURTAIN MATERIALS SHALL CONFORM TO Mn/DOT SPECIFICATION 3887.
 - SILT CURTAIN SHALL BE MAINTAINED AND REPAIRED OR REPLACED AS REQUIRED TO PREVENT DISCHARGE OF SEDIMENT.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO REMOVAL OF SILT CURTAIN.
 - SILT CURTAIN SHALL BE REMOVED FOLLOWING SITE STABILIZATION OR AS DIRECTED BY ENGINEER.

CADD USER: Jack A. Mettich FILE: M:\DESIGN\23191372\052319137205_LINE_C-020.DWG PLOT SCALE: 1:2 PLOT DATE: 06/30/2022 12:30 PM

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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DATE: _____ LICENSE # _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED

BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435

Project Office:
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Minneapolis, Minnesota
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Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-

MINNESOTA POLLUTION CONTROL AGENCY

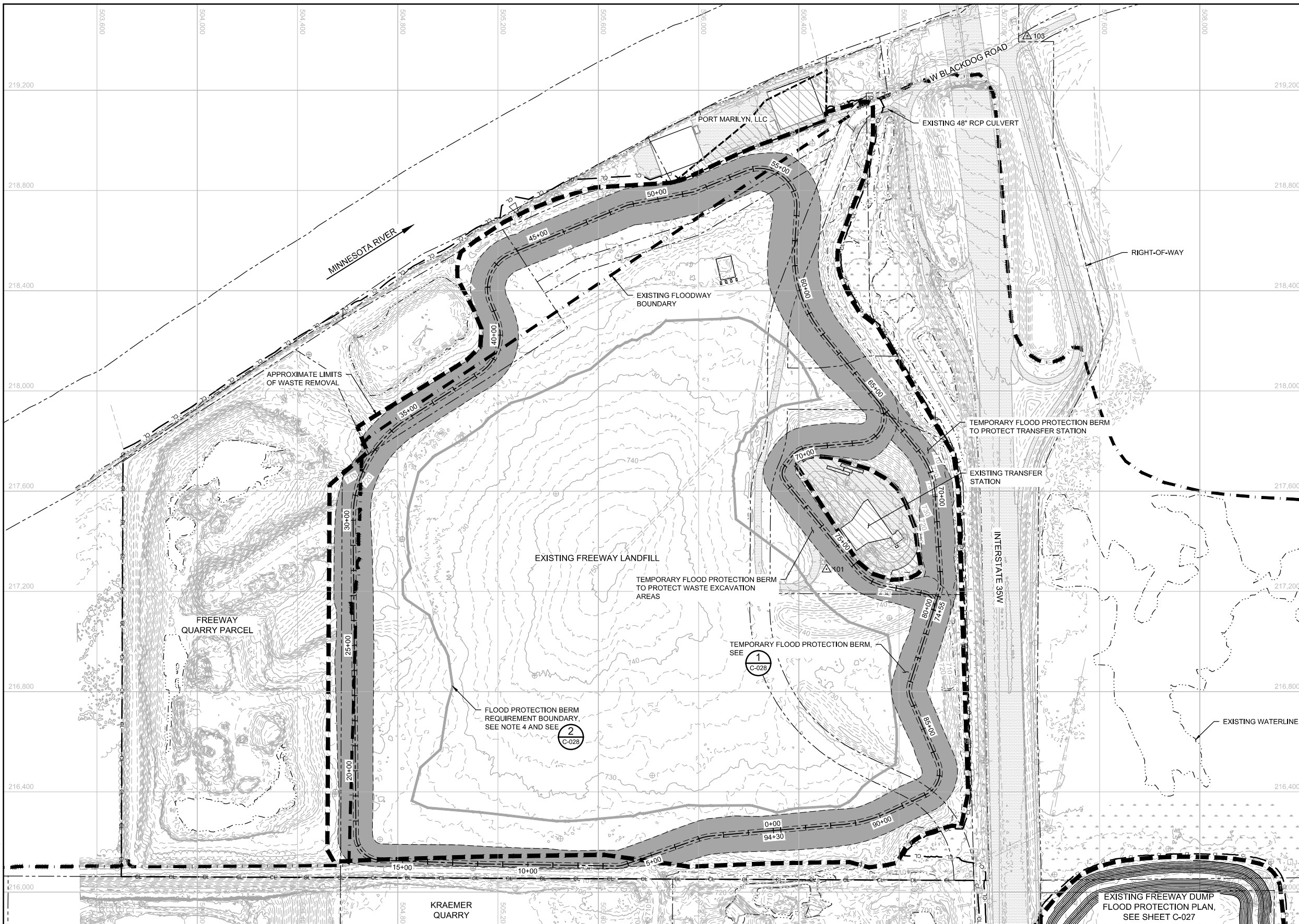
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

EROSION CONTROL
DETAILS 2 OF 2

BARR PROJECT No. 23/19-1372.00	REV. No. B
CLIENT PROJECT No.	DWG. No. C-025

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06/30/2022

CADD USER: Andrea W. Tolkmier FILE: M:\DESIGN\2019\137205\FLOT_SCALE_12.PLOT DATE: 6/29/2022 2:33 PM
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LEGEND

CL	CL	CONSTRUCTION LIMITS
---	---	PROPERTY BOUNDARY
---	---	EXISTING FLOODWAY BOUNDARY
---	---	EXISTING WATERLINE (2020-06-12)
---	---	EXISTING 10-FOOT CONTOUR
---	---	EXISTING 2-FOOT CONTOUR
---	---	EXISTING OVERHEAD ELECTRIC
---	---	EXISTING UNDERGROUND ELECTRIC
---	---	EXISTING TELEPHONE LINE
---	---	EXISTING POTABLE
---	---	EXISTING STORM
---	---	EXISTING CULVERT
---	---	EXISTING SANITARY
---	---	EXISTING CHAIN LINK FENCE
---	---	EXISTING TREE LINE
---	---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	---	EXISTING BUILDING
---	---	WETLANDS
---	---	EXISTING BITUMINOUS PAVEMENT
---	---	EXISTING GRAVEL PAVEMENT
△ 101		CONTROL POINT
⊕		EXISTING MONITORING WELL
⊙		EXISTING POWER POLE
⊙		EXISTING LIGHT POLE
⊙		EXISTING ELECTRIC PEDESTAL
⊙		EXISTING WATER MANHOLE
⊙		EXISTING STORM SEWER MANHOLE
⊙		EXISTING SANITARY SEWER MANHOLE
⊙		EXISTING COMMUNICATIONS BOX
⊙		EXISTING GATE
---	---	PROPOSED 10-FOOT CONTOUR
---	---	PROPOSED 2-FOOT CONTOUR
---	---	FLOOD PROTECTION BERM REQUIREMENT BOUNDARY
---	---	TEMPORARY FLOOD PROTECTION BERM

- NOTES:**
1. THE EXACT LIMITS OF EXISTING WASTE ARE NOT KNOWN AND BEEN ESTIMATED BASED ON INVESTIGATIONS. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
 2. FLOOD PROTECTION BERM MAY NOT BE EXPANDED INTO FLOODWAY MORE THAN SHOWN.
 3. EXCAVATION OUTSIDE FLOOD PROTECTION BERM REQUIREMENT BOUNDARY REQUIRES CONSTRUCTION OF FLOOD PROTECTION BERM.
 4. IF EXCAVATING OUTSIDE OF FLOOD PROTECTION BOUNDARY, MONITOR MINNESOTA RIVER PREDICTIONS AND IMPLEMENT CONTINGENCY ACTIONS DETAILED IN WASTE EXCAVATION AND RELOCATION PLAN (CONTRACTOR SUBMITTAL) IF RIVER IS FORECASTED TO RISE TO WITHIN TWO VERTICAL FEET OF ACTIVE EXCAVATION FACE.
 5. TEMPORARY EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE SHEET C-020 FOR EROSION CONTROL PLAN.
 6. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
 7. EXCAVATE AND DISPOSE OF WASTE, SEE SPECIFICATION 31 23 16.
 8. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
 9. TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
 10. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
 11. TEMPORARY SEED AND MULCH PER DETAIL 5 ON SHEET C-025.

1 PLAN: FLOOD PROTECTION
 SCALE IN FEET
 0 200 400

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NOT FOR CONSTRUCTION
 06/30/2022

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BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

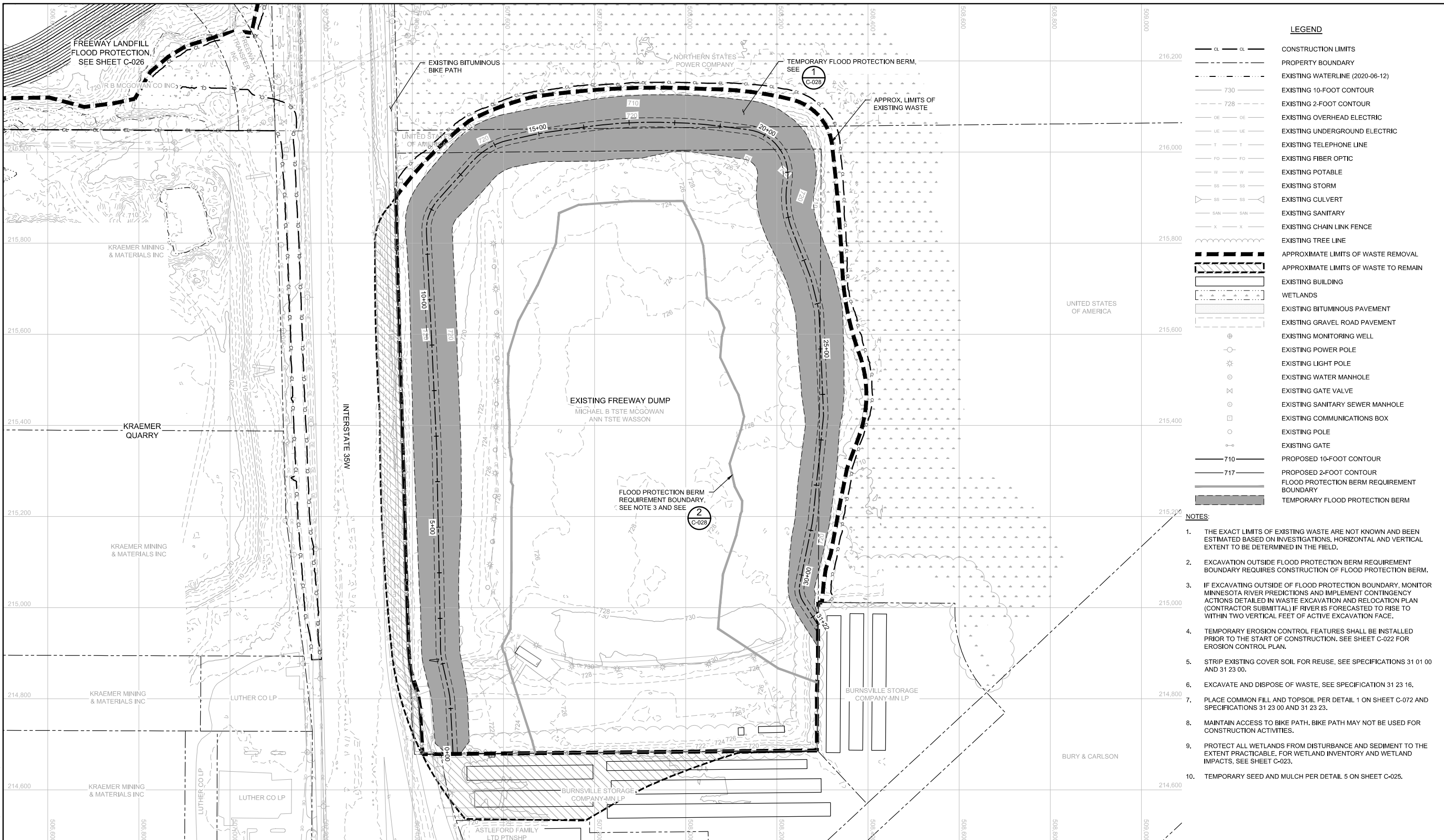
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Scale	AS SHOWN
Date	11/19/2019
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA
LANDFILL FLOOD PROTECTION PLAN

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-026
REV. No.	B



LEGEND

— CL — CL —	CONSTRUCTION LIMITS
---	PROPERTY BOUNDARY
- - - - -	EXISTING WATERLINE (2020-06-12)
---	EXISTING 10-FOOT CONTOUR
---	EXISTING 2-FOOT CONTOUR
— OE — OE —	EXISTING OVERHEAD ELECTRIC
— UE — UE —	EXISTING UNDERGROUND ELECTRIC
— T — T —	EXISTING TELEPHONE LINE
— FO — FO —	EXISTING FIBER OPTIC
— W — W —	EXISTING POTABLE
— SS — SS —	EXISTING STORM
— SS — SS —	EXISTING CULVERT
— SAN — SAN —	EXISTING SANITARY
— X — X —	EXISTING CHAIN LINK FENCE
~ ~ ~ ~ ~	EXISTING TREE LINE
---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	EXISTING BUILDING
---	WETLANDS
---	EXISTING BITUMINOUS PAVEMENT
---	EXISTING GRAVEL ROAD PAVEMENT
⊕	EXISTING MONITORING WELL
⊙	EXISTING POWER POLE
⊛	EXISTING LIGHT POLE
⊗	EXISTING WATER MANHOLE
⊗	EXISTING GATE VALVE
⊗	EXISTING SANITARY SEWER MANHOLE
⊗	EXISTING COMMUNICATIONS BOX
⊗	EXISTING POLE
⊗	EXISTING GATE
---	PROPOSED 10-FOOT CONTOUR
---	PROPOSED 2-FOOT CONTOUR
---	FLOOD PROTECTION BERM REQUIREMENT BOUNDARY
---	TEMPORARY FLOOD PROTECTION BERM

- NOTES:**
1. THE EXACT LIMITS OF EXISTING WASTE ARE NOT KNOWN AND BEEN ESTIMATED BASED ON INVESTIGATIONS. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
 2. EXCAVATION OUTSIDE FLOOD PROTECTION BERM REQUIREMENT BOUNDARY REQUIRES CONSTRUCTION OF FLOOD PROTECTION BERM.
 3. IF EXCAVATING OUTSIDE OF FLOOD PROTECTION BOUNDARY, MONITOR MINNESOTA RIVER PREDICTIONS AND IMPLEMENT CONTINGENCY ACTIONS DETAILED IN WASTE EXCAVATION AND RELOCATION PLAN (CONTRACTOR SUBMITTAL) IF RIVER IS FORECASTED TO RISE TO WITHIN TWO VERTICAL FEET OF ACTIVE EXCAVATION FACE.
 4. TEMPORARY EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE SHEET C-022 FOR EROSION CONTROL PLAN.
 5. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
 6. EXCAVATE AND DISPOSE OF WASTE, SEE SPECIFICATION 31 23 16.
 7. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
 8. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.
 9. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
 10. TEMPORARY SEED AND MULCH PER DETAIL 5 ON SHEET C-025.

1 PLAN: DUMP FLOOD PROTECTION

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

CADD USER: Andrea W. Tolkmier FILE: M:\DESIGN\2019\137205_LINE_C-027.DWG PLOT SCALE: 1:2 PLOT DATE: 06/28/2022 2:31 PM

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CONSTRUCTION							
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DATE RELEASED							

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4300 MARKETPOINTE DRIVE
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Project Office:
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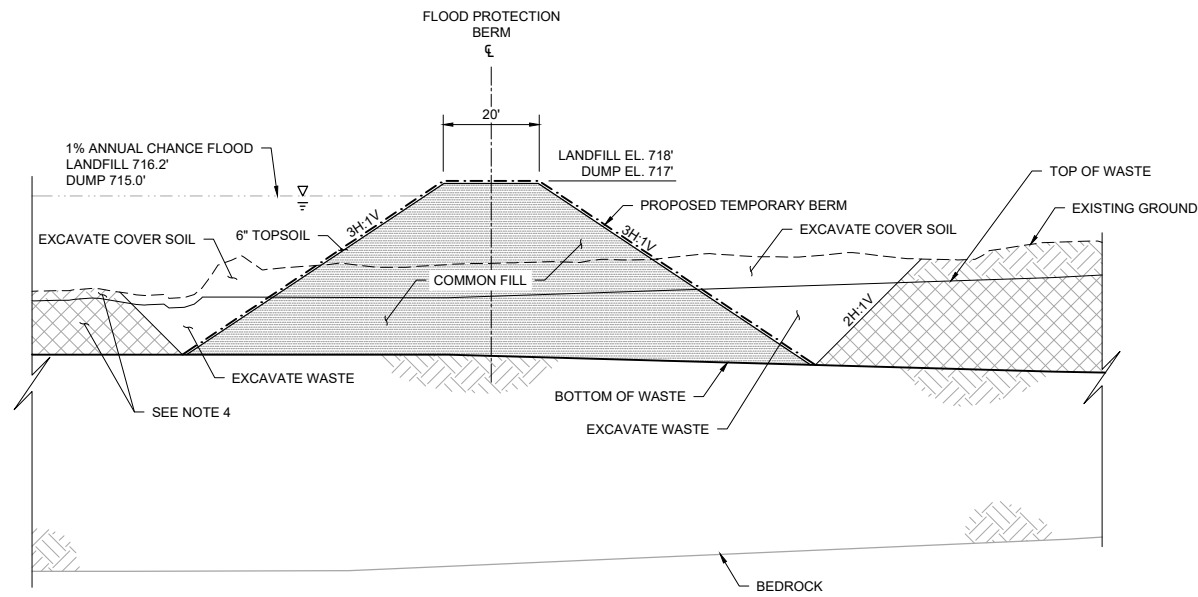
Scale	AS SHOWN
Date	09/05/2019
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

DUMP FLOOD PROTECTION PLAN

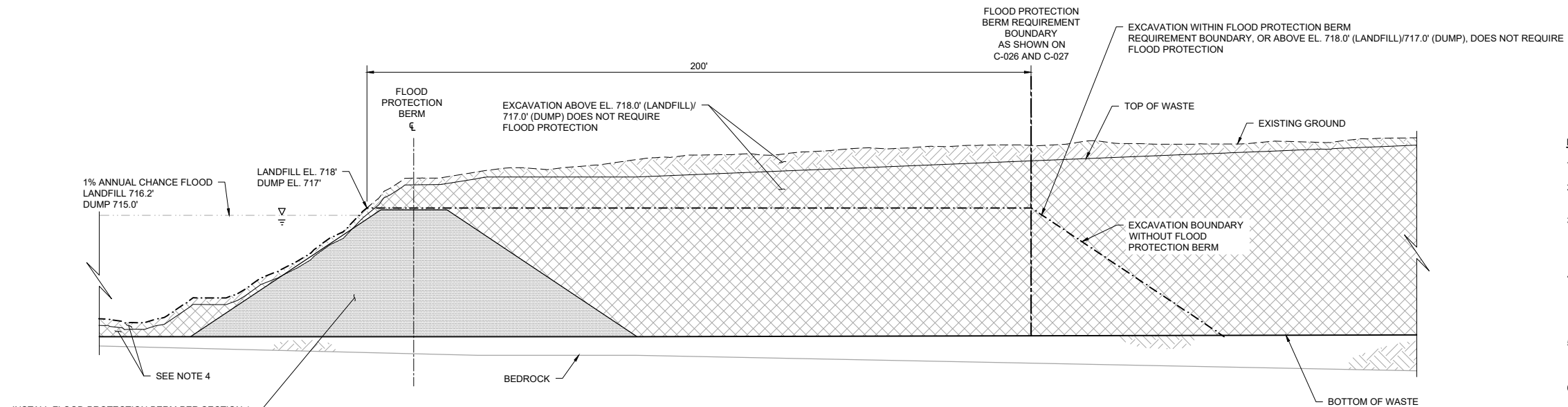
BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-027
REV. No.	B



1 SECTION: TEMPORARY FLOOD PROTECTION BERM (TYP.)
C-026, C-027 NOT TO SCALE

LEGEND

---	EXISTING GROUND
---	EXISTING BEDROCK
---	FLOOD ELEVATION
---	PROPOSED TEMPORARY BERM OR EXCAVATION BOUNDARY WITHOUT FLOOD PROTECTION BERM
---	PROPOSED EXCAVATION SURFACE
---	PROPOSED COVER SOIL EXCAVATION
---	PROPOSED WASTE EXCAVATION
---	PROPOSED COMMON FILL
---	EXISTING SOIL TO REMAIN



2 SECTION: FLOOD PROTECTION BERM REQUIREMENT BOUNDARY (TYP.)
C-026, C-027 NOT TO SCALE

- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 2 FOR CLARITY.
 2. FLOOD PROTECTION BERM MAY NOT BE EXPANDED INTO FLOODWAY MORE THAN SHOWN ON SHEETS C-026 AND C-027.
 3. EXCAVATION OUTSIDE FLOOD PROTECTION BERM REQUIREMENT BOUNDARY REQUIRES CONSTRUCTION OF FLOOD PROTECTION BERM, SEE SHEETS C-026 AND C-027. PROVIDE CONTINUOUS FLOOD PROTECTION BERM.
 4. IF EXCAVATING OUTSIDE OF FLOOD PROTECTION BOUNDARY, MONITOR MINNESOTA RIVER PREDICTIONS AND IMPLEMENT CONTINGENCY ACTIONS DETAILED IN WASTE EXCAVATION AND RELOCATION PLAN (CONTRACTOR SUBMITTAL) IF RIVER IS FORECASTED TO RISE TO WITHIN TWO VERTICAL FEET OF ACTIVE EXCAVATION FACE.
 5. TEMPORARY EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE SHEETS C-020 AND C-022 FOR EROSION CONTROL PLAN.
 6. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
 7. EXCAVATE AND DISPOSE OF WASTE, SEE SPECIFICATION 31 23 16.
 8. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
 9. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEETS C-021 AND C-023.
 10. TEMPORARY SEED AND MULCH PER DETAIL 5 ON SHEET C-025.
 11. EXCAVATE WASTE AT SAFE SLOPES IN ACCORDANCE WITH OSHA.
 12. STABILIZE SLOPES PER SWPPP.

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

CADD USER: Jack A. Mettich FILE: M:\DESIGN\2319137205\LINE_C-028.DWG PLOT SCALE: 1:2 PLOT DATE: 06/29/2022 2:51 PM
BARR:\AutoCAD\2011\AutoCAD 2011 Support\enu\template\Bar_2011_Template.dwg Plot at 1: 10/06/2010 14:09:50

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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	RELEASED TO/FOR	A B C 0 1 2 3	DATE RELEASED	Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	MINNESOTA POLLUTION CONTROL AGENCY	CLIENT PROJECT No.
										DWG. No. C-028	REV. No. B

BASE CASE PHASING SEQUENCE:

1. CONSTRUCT CELL A, LEACHATE AND GAS MANAGEMENT AREA, LEACHATE FORCEMAIN TO MCES, AND EMBASSY ROAD AND SITE ENTRANCE. USE LANDFILL EMBANKMENT FOR CELL A AS FLOOD PROTECTION BERM, EXTENDING LANDFILL EMBANKMENT 200' PAST CELL BOUNDARY. STOCKPILE WASTE WITHIN WASTE STOCKPILE. (PHASE SHOWN ON THIS SHEET)
2. CONSTRUCT CELL B AND USE LANDFILL EMBANKMENT FOR CELL B AS FLOOD PROTECTION BERM. EXTENDING LANDFILL EMBANKMENT 200' PAST CELL BOUNDARY. CONSOLIDATE WASTE WITHIN ACTIVE WASTE CONSOLIDATION LIMITS.
3. CONSTRUCT CELL C AND USE LANDFILL EMBANKMENT FOR CELL C AS FLOOD PROTECTION BERM. EXTENDING LANDFILL EMBANKMENT TO FLOOD PROTECTION BERM REQUIREMENT BOUNDARY. PROVIDE TRANSFER STATION TEMPORARY ACCESS ROAD AND CONSTRUCT STORMWATER POND AND FLOOD PROTECTION BERM AROUND STORMWATER POND AND TRANSFER STATION. CONSOLIDATE WASTE WITHIN ACTIVE WASTE CONSOLIDATION LIMITS. PROGRESSIVELY CONSTRUCT FINAL COVER. (PHASE SHOWN ON SHEET C-030)
4. CONSTRUCT PERMANENT TRANSFER STATION ACCESS ROAD AND CELL F. CONSOLIDATE WASTE AND WASTE STOCKPILE WITHIN ACTIVE WASTE CONSOLIDATION LIMITS. PROGRESSIVELY CONSTRUCT FINAL COVER.
5. CONSTRUCT CELL E AND USE LANDFILL EMBANKMENT FOR CELL E AS FLOOD PROTECTION BERM, EXTENDING LANDFILL EMBANKMENT TO FLOOD PROTECTION BERM REQUIREMENT BOUNDARY. CONSOLIDATE WASTE WITHIN ACTIVE WASTE CONSOLIDATION LIMITS. PROGRESSIVELY CONSTRUCT FINAL COVER. (PHASE SHOWN ON SHEET C-031)
6. CONSTRUCT CELL D AND USE LANDFILL EMBANKMENT FOR CELL D AS FLOOD PROTECTION BERM, EXTENDING LANDFILL EMBANKMENT TO FLOOD PROTECTION BERM REQUIREMENT BOUNDARY. CONSOLIDATE WASTE WITHIN ACTIVE WASTE CONSOLIDATION LIMITS. PROGRESSIVELY CONSTRUCT FINAL COVER. (PHASE SHOWN ON SHEET C-032)

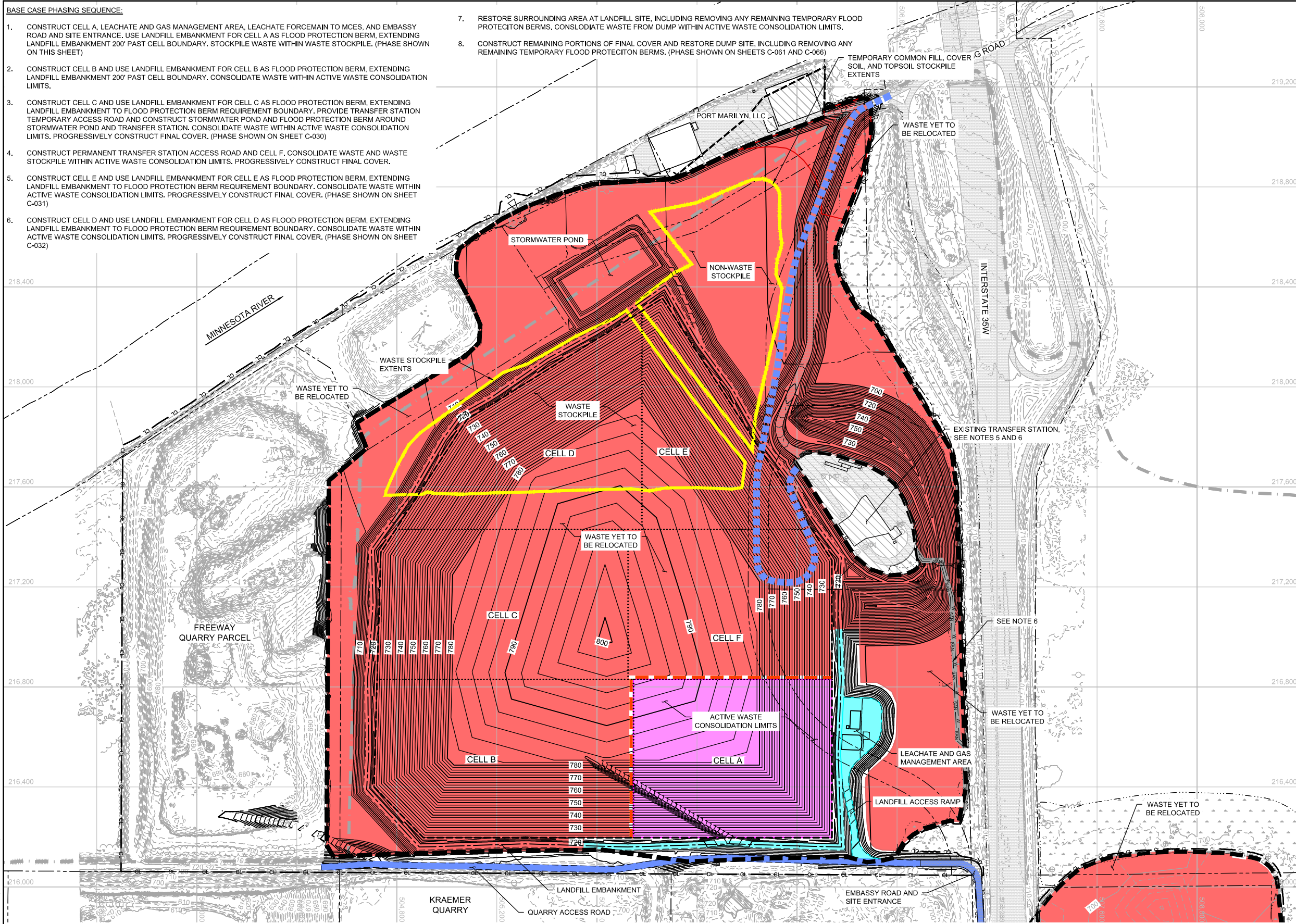
7. RESTORE SURROUNDING AREA AT LANDFILL SITE, INCLUDING REMOVING ANY REMAINING TEMPORARY FLOOD PROTECTION BERMS, CONSOLIDATE WASTE FROM DUMP WITHIN ACTIVE WASTE CONSOLIDATION LIMITS.
8. CONSTRUCT REMAINING PORTIONS OF FINAL COVER AND RESTORE DUMP SITE, INCLUDING REMOVING ANY REMAINING TEMPORARY FLOOD PROTECTION BERMS. (PHASE SHOWN ON SHEETS C-061 AND C-066)

LEGEND

- CL — CL — CONSTRUCTION LIMITS
- - - - - PROPERTY BOUNDARY
- - - - - EXISTING FLOODWAY BOUNDARY
- 740 — EXISTING 10-FOOT CONTOUR
- - - - - EXISTING 2-FOOT CONTOUR
- x - x - EXISTING CHAIN LINK FENCE
- ~ ~ ~ ~ ~ EXISTING TREE LINE
- - - - - APPROXIMATE LIMITS OF WASTE REMOVAL
- - - - - APPROXIMATE LIMITS OF WASTE TO REMAIN
- EXISTING BUILDING
- WETLANDS
- EXISTING BITUMINOUS PAVEMENT
- EXISTING GRAVEL PAVEMENT
- 700 — PROPOSED 10-FOOT CONTOUR
- 698 — PROPOSED 2-FOOT CONTOUR
- PROPOSED BUILDING
- PROPOSED BITUMINOUS PAVEMENT
- CELL BOUNDARY
- WASTE YET TO BE RELOCATED
- ACTIVE WASTE CONSOLIDATION LIMITS
- FINAL COVER
- QUARRY AND EMBASSY ROADS
- LANDFILL ROADS
- STORMWATER POND
- TEMPORARY FLOOD PROTECTION BERM
- STOCKPILE EXTENTS
- TRANSFER STATION ACCESS

NOTES

1. PROPOSED CONTOURS SHOWN REPRESENT TOP OF RESTORATION SURFACE.
2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
3. CONTRACTOR SHALL SUBMIT A PHASING PLAN TO BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION AND SHALL MODIFY THE BASE CASE PHASING PLAN AS CONTRACTOR DEEMS NECESSARY. THE BASE CASE PLAN IS INTENDED TO DEMONSTRATE AN ACCEPTABLE APPROACH TO PHASING. ALL DETAILS, MODIFICATIONS, ADDITIONS AND DELETIONS TO THIS PLAN SHOULD BE ADDRESSED IN THE CONTRACTOR'S PHASING PLAN.
4. TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
5. MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY. SEE SHEET C-071 FOR ADDITIONAL INFORMATION.
6. REMOVE TREES AS LATE AS PRACTICABLE TO MAINTAIN VISUAL SCREENING.
7. FLOOD PROTECTION MUST BE MAINTAINED AT ALL TIMES.



1 PLAN: LANDFILL PHASING - BASE CASE AT PHASING SEQUENCE 1

SCALE IN FEET

0 200 400

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CLIENT	BID	CONSTRUCTION
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Checked	BDP
Designed	BARR
Approved	



FREEMWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA

LANDFILL PHASING
 PLAN 1 OF 4

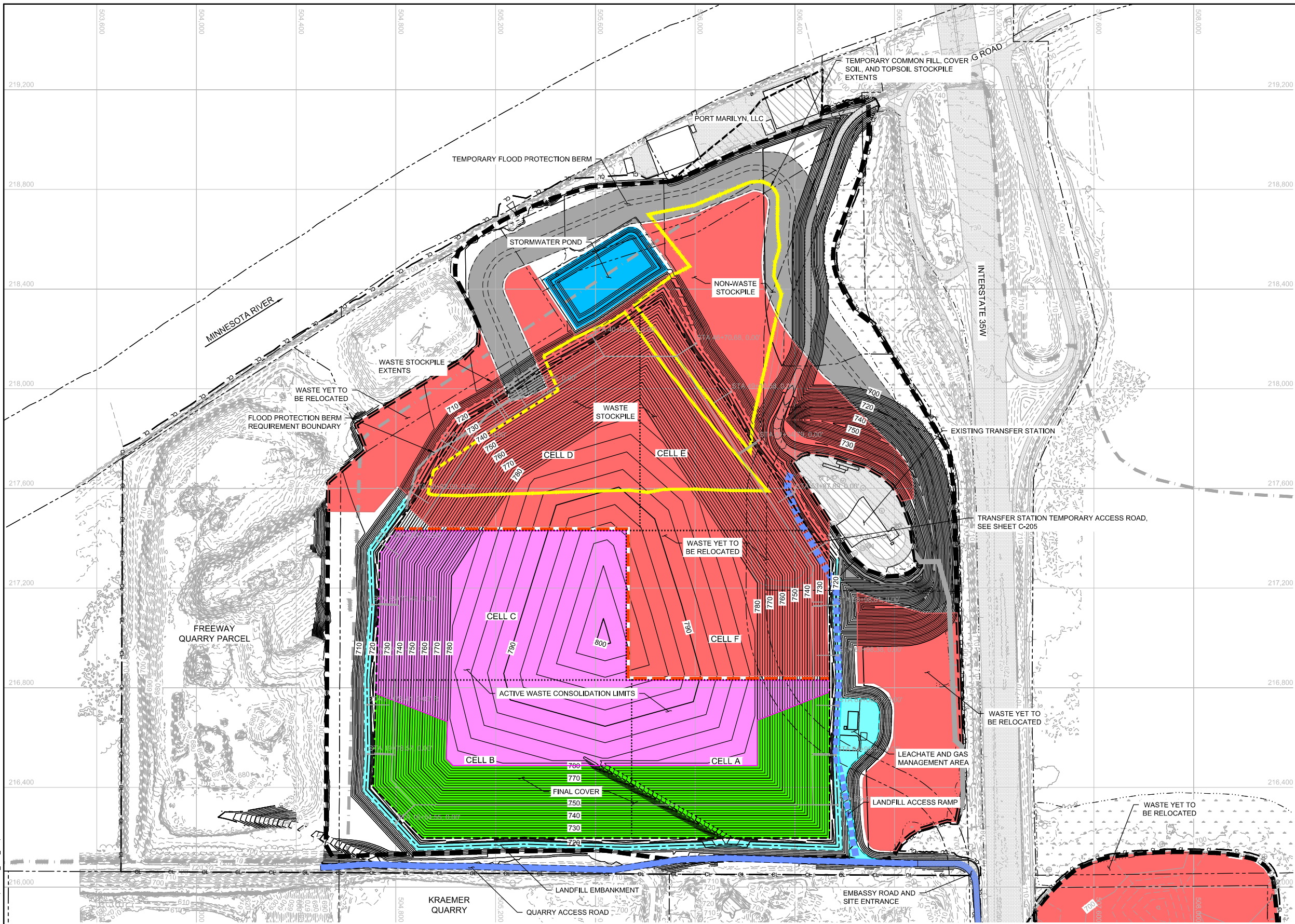
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 06/30/2022

BARR PROJECT No.
 23/19-1372.00

CLIENT PROJECT No.
 C-029

DWG. No.
 C-029

REV. No.
 B



LEGEND

---CL---	CONSTRUCTION LIMITS
- - - - -	PROPERTY BOUNDARY
- - - - -	EXISTING FLOODWAY BOUNDARY
---	EXISTING 10-FOOT CONTOUR
---	EXISTING 2-FOOT CONTOUR
-x-x-	EXISTING CHAIN LINK FENCE
~ ~ ~	EXISTING TREE LINE
- - - - -	APPROXIMATE LIMITS OF WASTE REMOVAL
- - - - -	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	EXISTING BUILDING
---	WETLANDS
---	EXISTING BITUMINOUS PAVEMENT
---	EXISTING GRAVEL PAVEMENT
---	PROPOSED 10-FOOT CONTOUR
---	PROPOSED 2-FOOT CONTOUR
---	PROPOSED BUILDING
---	PROPOSED BITUMINOUS PAVEMENT
---	CELL BOUNDARY
---	WASTE YET TO BE RELOCATED
---	ACTIVE WASTE CONSOLIDATION LIMITS
---	FINAL COVER
---	QUARRY AND EMBASSY ROADS
---	LANDFILL ROADS
---	STORMWATER POND
---	TEMPORARY FLOOD PROTECTION BERM
---	STOCKPILE EXTENTS
---	ADJUSTED STOCKPILE EXTENTS
---	TRANSFER STATION ACCESS

NOTES

1. SEE NOTES AND BASE CASE PHASING SEQUENCE ON SHEET C-029.

1 PLAN: LANDFILL PHASING - BASE CASE AT PHASING SEQUENCE 3

0 200 400
SCALE IN FEET

100% DRAFT
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06/30/2022

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Date	01/20/2020
Drawn	TJK
Checked	BDP
Designed	BARR
Approved	

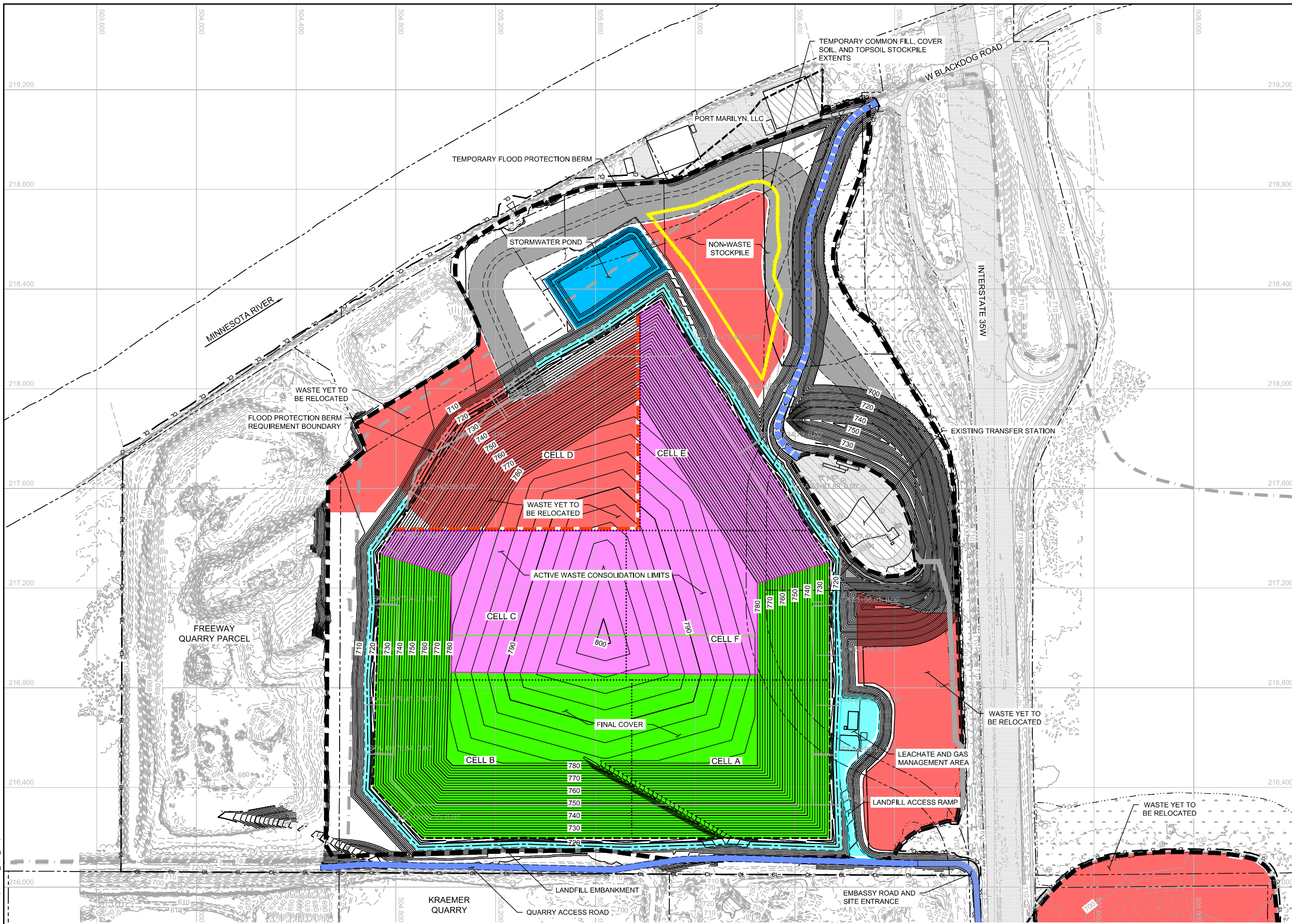


FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

LANDFILL PHASING
PLAN 2 OF 4

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-030
REV. No.	B

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LEGEND

--- CL --- CL ---	CONSTRUCTION LIMITS
---	PROPERTY BOUNDARY
- - - - -	EXISTING FLOODWAY BOUNDARY
— 740 —	EXISTING 10-FOOT CONTOUR
- - - - -	EXISTING 2-FOOT CONTOUR
x - x - x - x	EXISTING CHAIN LINK FENCE
~~~~~	EXISTING TREE LINE
---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	EXISTING BUILDING
---	WETLANDS
---	EXISTING BITUMINOUS PAVEMENT
---	EXISTING GRAVEL PAVEMENT
— 700 —	PROPOSED 10-FOOT CONTOUR
— 698 —	PROPOSED 2-FOOT CONTOUR
---	PROPOSED BUILDING
---	PROPOSED BITUMINOUS PAVEMENT
---	CELL BOUNDARY
---	WASTE YET TO BE RELOCATED
---	ACTIVE WASTE CONSOLIDATION LIMITS
---	FINAL COVER
---	QUARRY AND EMBASSY ROADS
---	LANDFILL ROADS
---	STORMWATER POND
---	TEMPORARY FLOOD PROTECTION BERM
---	STOCKPILE EXTENTS
---	TRANSFER STATION ACCESS

**NOTES**

1. SEE NOTES AND BASE CASE PHASING SEQUENCE ON SHEET C-029

1 PLAN: LANDFILL PHASING - BASE CASE AT PHASING SEQUENCE 5

0 200 400  
SCALE IN FEET

100% DRAFT  
NOT FOR CONSTRUCTION  
06/30/2022

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SIGNATURE _____  
DATE _____ LICENSE # _____

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BID							
CONSTRUCTION							
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DATE RELEASED							

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Checked	BDP
Designed	BARR
Approved	

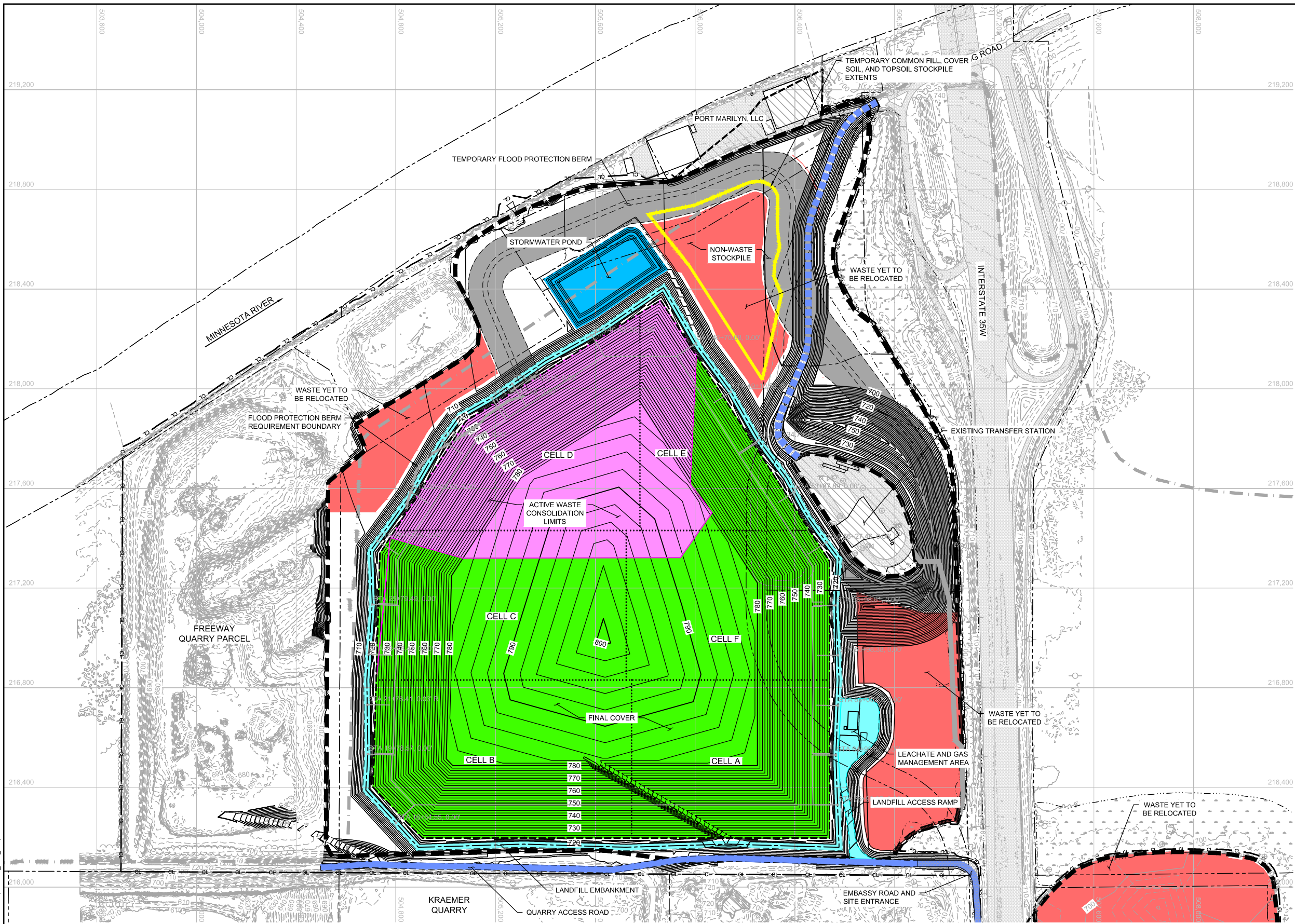


FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

LANDFILL PHASING  
PLAN 3 OF 4

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-031
REV. No.	B

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**LEGEND**

--- CL --- CL ---	CONSTRUCTION LIMITS
---	PROPERTY BOUNDARY
- - - - -	EXISTING FLOODWAY BOUNDARY
---	EXISTING 10-FOOT CONTOUR
---	EXISTING 2-FOOT CONTOUR
- x - x -	EXISTING CHAIN LINK FENCE
~ ~ ~ ~ ~	EXISTING TREE LINE
- - - - -	APPROXIMATE LIMITS OF WASTE REMOVAL
- - - - -	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	EXISTING BUILDING
---	WETLANDS
---	EXISTING BITUMINOUS PAVEMENT
---	EXISTING GRAVEL PAVEMENT
---	PROPOSED 10-FOOT CONTOUR
---	PROPOSED 2-FOOT CONTOUR
---	PROPOSED BUILDING
---	PROPOSED BITUMINOUS PAVEMENT
---	CELL BOUNDARY
---	WASTE YET TO BE RELOCATED
---	ACTIVE WASTE CONSOLIDATION LIMITS
---	FINAL COVER
---	QUARRY AND EMBASSY ROADS
---	LANDFILL ROADS
---	STORMWATER POND
---	TEMPORARY FLOOD PROTECTION BERM
---	STOCKPILE EXTENTS
---	TRANSFER STATION ACCESS

**NOTES**  
 1. SEE NOTES AND BASE CASE PHASING SEQUENCE ON SHEET C-029.

1 PLAN: LANDFILL PHASING - BASE CASE AT PHASING SEQUENCE 6  
 SCALE IN FEET

100% DRAFT  
 NOT FOR CONSTRUCTION  
 06/30/2022

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CONSTRUCTION							
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DATE RELEASED							

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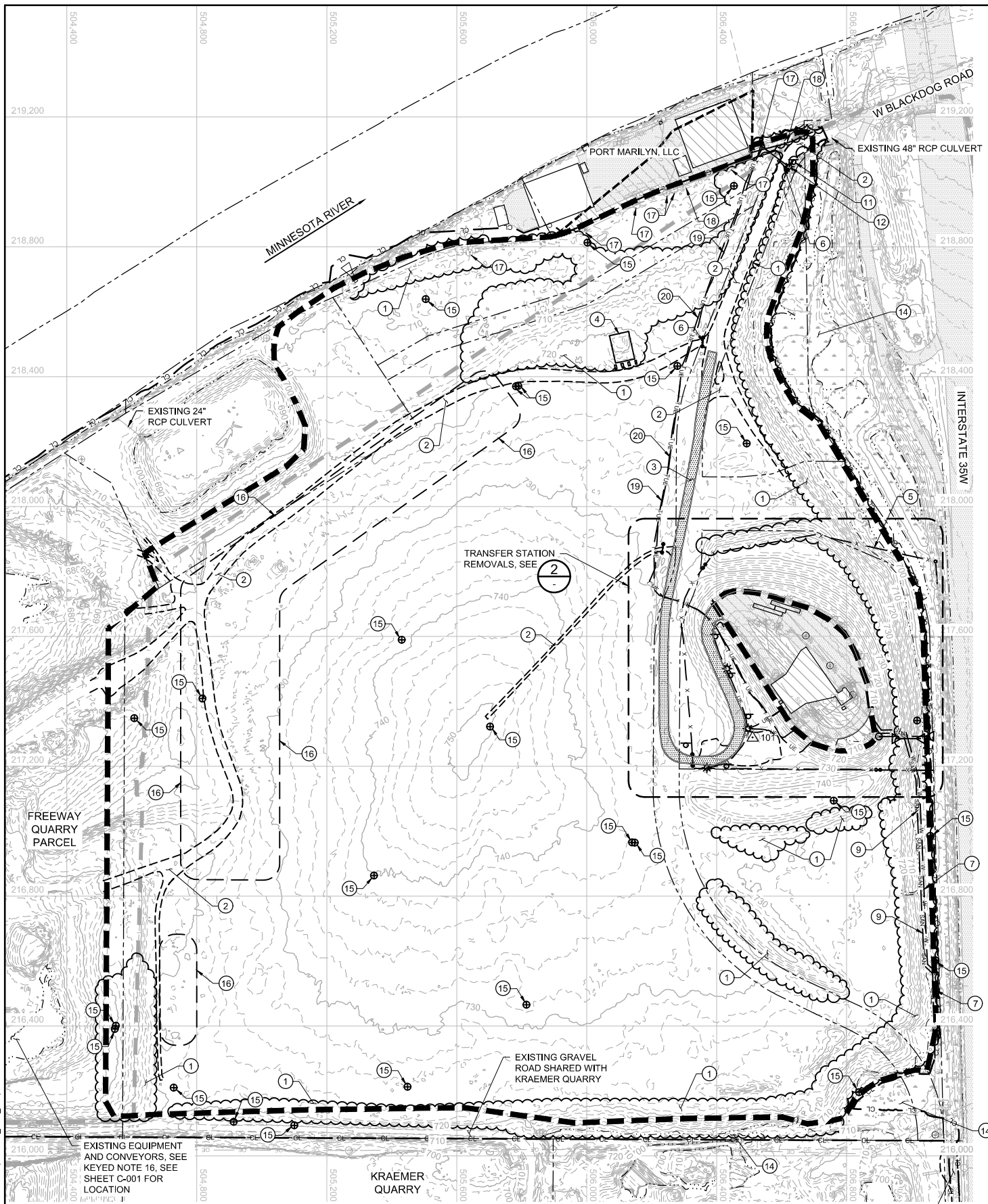
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Drawn	TJK
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Designed	BARR
Approved	



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA  
 LANDFILL PHASING  
 PLAN 4 OF 4

BARR PROJECT No.	23/19-1372.00
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DWG. No.	C-032
REV. No.	B

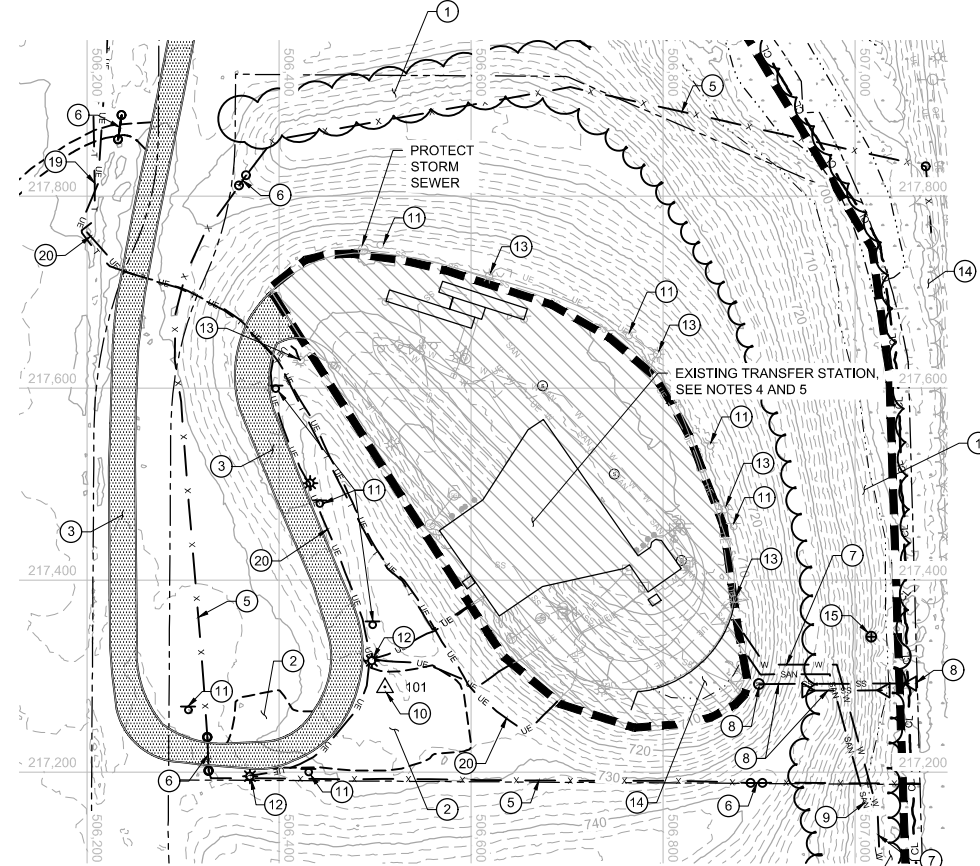
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1 PLAN: LANDFILL REMOVALS

- KEYED NOTES:**
- CLEAR AND GRUB TREES - SEE NOTE 7.
  - REMOVE GRAVEL SURFACING.
  - REMOVE BITUMINOUS PAVEMENT - SEE NOTE 4.
  - REMOVE CONCRETE FOUNDATION.
  - REMOVE FENCING - SEE NOTE 8.
  - REMOVE GATE - SEE NOTE 8.
  - REMOVE POTABLE WATERLINE - SEE NOTE 5.
  - REMOVE STORMWATER MANHOLE, CULVERTS, OUTLETS, AND APPURTENCES. STORMWATER TO BE CONTROLLED BY THE CONTRACTOR DURING CONSTRUCTION AND REPLACED IN KIND IN THE EXISTING GENERAL LOCATION AND ELEVATIONS AFTER WASTE REMOVAL. EXTEND PIPING TO DAYLIGHT AS NECESSARY.
  - REMOVE SANITARY SEWER - SEE NOTE 5.
  - REMOVE CONTROL POINT - REESTABLISH CONTROL POINT PRIOR TO REMOVAL. COORDINATE LOCATION WITH OWNER.
  - SALVAGE SIGN, REPLACE AFTER CONSTRUCTION.
  - REMOVE LIGHT POLE.
  - PROTECT LIGHT POLE - TO REMAIN.
  - WETLANDS - SEE NOTE 6.
  - SEAL MONITORING WELLS IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS - SEE NOTE 1.
  - DUMPSTERS, EQUIPMENT, AND CONVEYORS - SITE OWNER TO REMOVE. SEE SHEET C-001 FOR APPROX. LOCATION.
  - PROTECT POWER POLE (TYP.).
  - PROTECT UNDERGROUND FIBER OPTIC LINE (TYP.).
  - REMOVE AND REPLACE UNDERGROUND COMMUNICATION LINE. - SEE NOTE 9.
  - REMOVE AND REPLACE UNDERGROUND ELECTRIC LINE. - SEE NOTE 9.
- NOTES:**
- PROTECT ALL STRUCTURES, UTILITIES, MONITORING WELLS, AND OTHER FEATURES UNLESS OTHERWISE NOTED OR AS DIRECTED BY OWNER. REMOVE AND DEMOLISH FEATURES AS NOTED PER SPECIFICATION 02 41 00.
  - TEMPORARY EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE SHEET C-020 FOR EROSION CONTROL PLAN.
  - THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD, SAW-CUT PAVEMENT, FULL DEPTH, WHERE REMOVAL IS REQUIRED OR WHERE NEW PAVEMENT MEETS OLD PAVEMENT.
  - MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY. SEE SHEET C-071 FOR ADDITIONAL INFORMATION.
  - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
  - REMOVE TREES AS LATE AS PRACTICABLE TO MAINTAIN VISUAL SCREENING. REMOVE TREES AND ROOTS AS NOTED. PROTECT TREES NOT INTENDED TO BE REMOVED. TREE AND ROOT CHIPPING AND REUSE ONSITE MAY BE ALLOWED, PENDING APPROVAL OF ENGINEER. CHIP AND DISPOSE OF TREES AND ROOTS PER SPECIFICATION 31 01 00. BURNING IS NOT ALLOWED ONSITE.
  - MAINTAIN SECURITY AROUND TRANSFER STATION. PROVIDE TEMPORARY FENCING UNTIL FINAL FENCING IS INSTALLED. SEE SPECIFICATION 32 31 00 FOR ADDITIONAL DETAILS.
  - SEE SHEET E-100 FOR UTILITY REPLACEMENT LOCATIONS.

- LEGEND**
- CL - CL CONSTRUCTION LIMITS
  - EXISTING PROPERTY BOUNDARY
  - - - EXISTING FLOODWAY BOUNDARY
  - - - EXISTING WATERLINE (2020-06-12)
  - 740 EXISTING 10-FOOT CONTOUR
  - EXISTING 2-FOOT CONTOUR
  - OE - OE EXISTING OVERHEAD ELECTRIC - REMAIN
  - UE - UE EXISTING UNDERGROUND ELECTRIC - REMAIN
  - T - T EXISTING UNDERGROUND TELEPHONE - REMAIN
  - FO - FO EXISTING FIBER OPTIC - REMAIN
  - W - W EXISTING POTABLE - REMAIN
  - SS - SS EXISTING STORM - REMAIN
  - SS - SS EXISTING CULVERT - REMAIN
  - SAN - SAN EXISTING SANITARY - REMAIN
  - X - X EXISTING CHAIN LINK FENCE - REMAIN
  - EXISTING TREE LINE - REMAIN
  - APPROXIMATE LIMITS OF WASTE REMOVAL
  - APPROXIMATE LIMITS OF WASTE TO REMAIN
  - EXISTING BUILDING - REMAIN
  - WETLANDS
  - EXISTING BITUMINOUS PAVEMENT - REMAIN
  - EXISTING GRAVEL ROAD PAVEMENT - REMAIN
  - △ 101 CONTROL POINT
  - ⊕ EXISTING MONITORING WELL - REMAIN
  - ⊕ EXISTING POWER POLE - REMAIN
  - ⊕ EXISTING LIGHT POLE - REMAIN
  - ⊕ EXISTING WATER MANHOLE - REMAIN
  - ⊕ EXISTING PIV - REMAIN
  - ⊕ EXISTING GATE VALVE - REMAIN
  - ⊕ EXISTING FIRE HYDRANT - REMAIN
  - ⊕ EXISTING STORM SEWER MANHOLE - REMAIN
  - ⊕ EXISTING SANITARY SEWER MANHOLE - REMAIN
  - ⊕ EXISTING COMMUNICATIONS BOX - REMAIN
  - ⊕ EXISTING SIGN - REMAIN
  - ⊕ EXISTING BOLLARD - REMAIN
  - ⊕ EXISTING GATE - REMAIN
  - UE - UE REMOVE UNDERGROUND ELECTRIC
  - T - T REMOVE UNDERGROUND TELEPHONE
  - W - W REMOVE POTABLE
  - SS - SS REMOVE STORM
  - SS - SS REMOVE CULVERT
  - SAN - SAN REMOVE SANITARY
  - X - X REMOVE CHAIN LINK FENCE
  - REMOVE TREE LINE
  - REMOVE BUILDING
  - REMOVE BITUMINOUS PAVEMENT
  - REMOVE GRAVEL ROAD PAVEMENT
  - △ 101 REESTABLISH CONTROL POINT
  - ⊕ REMOVE MONITORING WELL
  - ⊕ REMOVE LIGHT POLE
  - ⊕ REMOVE STORM SEWER MANHOLE
  - ⊕ SALVAGE AND REINSTALL SIGN
  - ⊕ REMOVE GATE



2 PLAN: LANDFILL REMOVALS - TRANSFER STATION

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 DATE: _____ LICENSE #: _____

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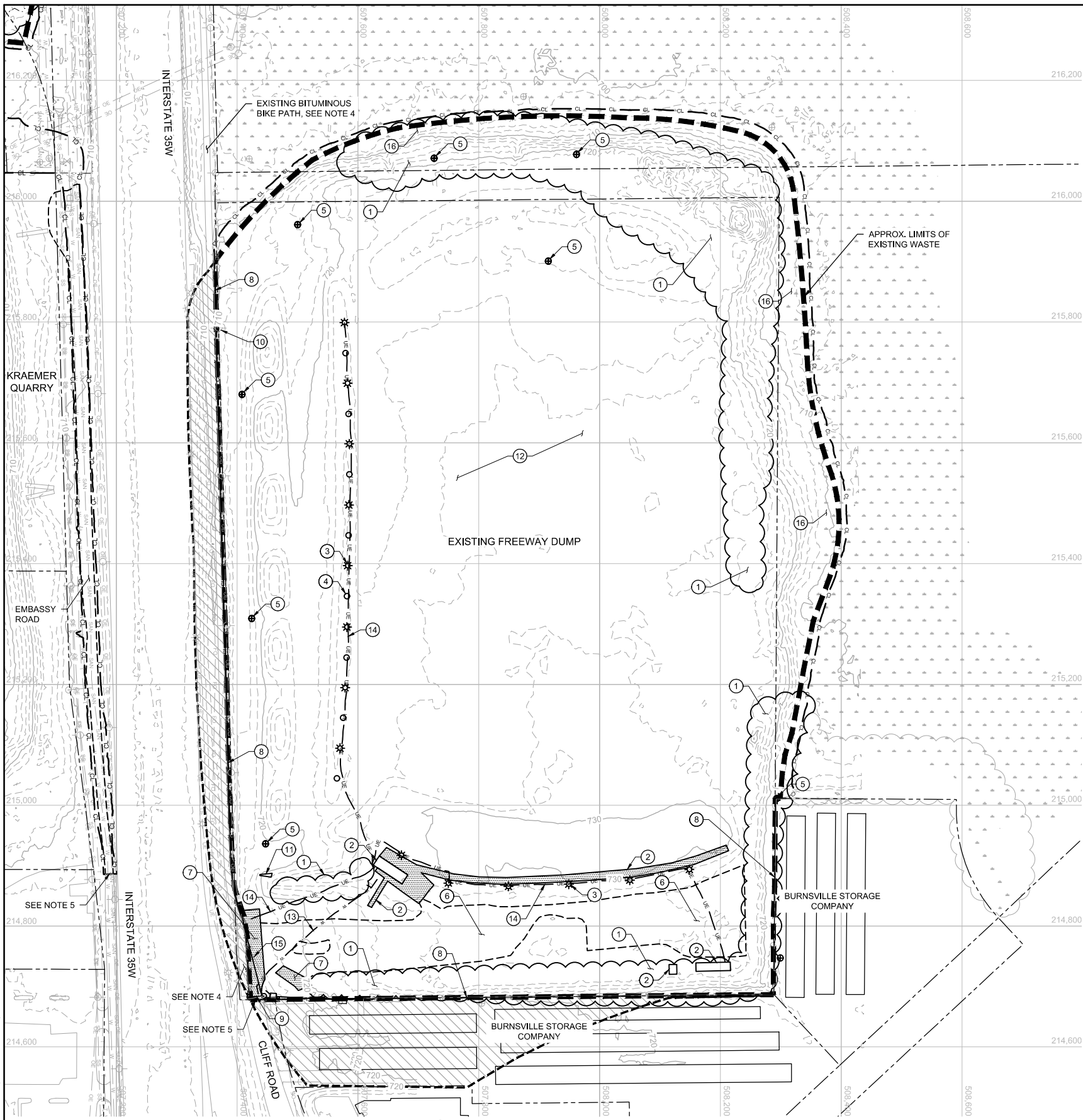
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Drawn	AWT
Checked	BDP
Designed	BARR
Approved	



FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA  
 LANDFILL REMOVALS  
 PLAN

BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-040	REV. No. B

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 NOT FOR CONSTRUCTION  
 06/30/2022



**KEYED NOTES:**

- ① CLEAR AND GRUB TREES – SEE NOTE 7.
- ② REMOVE BUILDING AND ASSOCIATED INFRASTRUCTURE.
- ③ REMOVE LIGHT POLE (TYP.).
- ④ REMOVE POLE AND NETTING (TYP.).
- ⑤ SEAL MONITORING WELL IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS – SEE NOTE 1.
- ⑥ REMOVE GRAVEL SURFACING.
- ⑦ REMOVE BITUMINOUS PAVEMENT – SEE NOTE 5.
- ⑧ REMOVE FENCING – SEE NOTE 8.
- ⑨ REMOVE GATE – SEE NOTE 8.
- ⑩ PROTECT POWER POLES (TYP.).
- ⑪ REMOVE SIGN.
- ⑫ REMOVE IRRIGATION SYSTEM – SEE NOTE 9.
- ⑬ TERMINATE SERVICE AND REMOVE POTABLE WATER LINE TO CONSTRUCTION EXTENTS AND CAP.
- ⑭ TERMINATE SERVICE AND REMOVE UNDERGROUND ELECTRIC LINE TO CONSTRUCTION EXTENTS.
- ⑮ PROTECT FIBER OPTIC LINE.
- ⑯ WETLANDS - SEE NOTE 6.

**NOTES:**

- 1. PROTECT ALL STRUCTURES, UTILITIES, MONITORING WELLS, AND OTHER FEATURES UNLESS OTHERWISE NOTED OR AS DIRECTED BY OWNER. REMOVE AND DEMOLISH FEATURES AS NOTED PER SPECIFICATION 02 41 00.
- 2. TEMPORARY EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. SEE SHEET C-022 FOR EROSION CONTROL PLAN.
- 3. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
- 4. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.
- 5. SAW-CUT PAVEMENT, FULL DEPTH, WHERE REMOVAL IS REQUIRED OR WHERE NEW PAVEMENT MEETS OLD PAVEMENT.
- 6. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
- 7. REMOVE TREES AND ROOTS AS NOTED, PROTECT TREES NOT INTENDED TO BE REMOVED. TREE AND ROOT CHIPPING AND REUSE ON SITE MAY BE ALLOWED, PENDING APPROVAL OF ENGINEER. CHIP AND DISPOSE OF TREES AND ROOTS PER SPECIFICATION 31 01 00. BURNING IS NOT ALLOWED ON SITE.
- 8. MAINTAIN SECURE SITE, PROVIDE TEMPORARY FENCING UNTIL FINAL FENCING IS INSTALLED, SEE SPECIFICATION 32 31 00 FOR ADDITIONAL DETAILS.
- 9. SURVEY LOCATE DID NOT CLEARLY LOCATE IRRIGATION SYSTEM.

**LEGEND**

- CL — CL — CONSTRUCTION LIMITS
- EXISTING PROPERTY BOUNDARY
- EXISTING FLOODWAY BOUNDARY
- 740 --- EXISTING WATERLINE (2020-06-12)
- EXISTING 10-FOOT CONTOUR
- EXISTING 2-FOOT CONTOUR
- OE --- OE --- EXISTING OVERHEAD ELECTRIC - REMAIN
- UE --- UE --- EXISTING UNDERGROUND ELECTRIC - REMAIN
- T --- T --- EXISTING TELEPHONE LINE - REMAIN
- FO --- FO --- EXISTING FIBER OPTIC - REMAIN
- W --- W --- EXISTING POTABLE - REMAIN
- SS --- SS --- EXISTING STORM - REMAIN
- X --- X --- EXISTING CHAIN LINK FENCE - REMAIN
- EXISTING TREE LINE - REMAIN
- APPROXIMATE LIMITS OF WASTE REMOVAL
- APPROXIMATE LIMITS OF WASTE TO REMAIN
- EXISTING BUILDING - REMAIN
- WETLANDS
- EXISTING BITUMINOUS PAVEMENT - REMAIN
- EXISTING GRAVEL ROAD PAVEMENT - REMAIN
- EXISTING MONITORING WELL - REMAIN
- EXISTING POWER POLE - REMAIN
- EXISTING LIGHT POLE - REMAIN
- EXISTING WATER MANHOLE - REMAIN
- EXISTING GATE VALVE - REMAIN
- EXISTING SANITARY SEWER MANHOLE
- EXISTING COMMUNICATIONS BOX - REMAIN
- REMOVE UNDERGROUND ELECTRIC
- REMOVE POTABLE
- REMOVE CHAIN LINK FENCE
- REMOVE TREE LINE
- REMOVE BUILDING
- REMOVE BITUMINOUS PAVEMENT
- REMOVE GRAVEL ROAD PAVEMENT
- REMOVE MONITORING WELL
- REMOVE LIGHT POLE
- REMOVE GATE

① PLAN: DUMP REMOVALS  
 SCALE IN FEET  
 0 100 200

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 06/30/2022

CADD USER: Andrea W. Tokkimer FILE: M:\DESIGN\23191372\062319137205_LINE_C-041.DWG PLOT SCALE: 1:2 PLOT DATE: 6/28/2022 8:48 AM  
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: _____  
 SIGNATURE: _____  
 DATE: _____ LICENSE # _____

CLIENT	06/30/2021	06/30/2022					
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

**BARR** Project Office:  
 BARR ENGINEERING CO.  
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 Minneapolis, Minnesota  
 Ph: 1-800-632-2277  
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 Ph: 1-800-632-2277  
 www.barr.com

Scale	AS SHOWN
Date	09/05/2019
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA

DUMP REMOVALS  
 PLAN

BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-041	REV. No. B



LEGEND	
	CONSTRUCTION LIMITS
	PROPERTY BOUNDARY
	EXISTING FLOODWAY BOUNDARY
	EXISTING WATERLINE (2020-06-12)
	EXISTING 10-FOOT CONTOUR
	EXISTING 2-FOOT CONTOUR
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	EXISTING POTABLE
	EXISTING STORM
	EXISTING CULVERT
	EXISTING SANITARY
	EXISTING CHAIN LINK FENCE
	EXISTING TREE LINE
	APPROXIMATE LIMITS OF WASTE REMOVAL
	APPROXIMATE LIMITS OF WASTE TO REMAIN
	EXISTING BUILDING
	WETLANDS
	EXISTING BITUMINOUS PAVEMENT
	EXISTING GRAVEL PAVEMENT
	EXISTING MONITORING WELL
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING ELECTRIC PEDESTAL
	EXISTING WATER MANHOLE
	EXISTING PIV
	EXISTING GATE VALVE
	EXISTING FIRE HYDRANT
	EXISTING STORM SEWER MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING COMMUNICATIONS BOX
	EXISTING SIGN
	EXISTING BOLLARD
	PROPOSED 10-FOOT CONTOUR (SEE NOTES 1 & 2)
	PROPOSED 2-FOOT CONTOUR (SEE NOTES 1 & 2)

- NOTES:**
- PROPOSED CONTOURS REPRESENT OVERALL EXCAVATION, INCLUDING COVER SOILS, WASTE MATERIALS, AND COMMON SOILS. ADDITIONAL EXCAVATION MAY BE REQUIRED FOR UNSUITABLE MATERIALS OR BEDROCK, AS NECESSARY.
  - THE EXACT LIMITS OF EXISTING WASTE ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN UNLESS OTHERWISE DIRECTED BY OWNER. SEE SECTION 5 ON SHEET C-205 FOR ADDITIONAL DETAILS. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
  - EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT PORT MARILYN, LLC PROPERTY ADJACENT TO BUILDINGS AND INFRASTRUCTURE, UNLESS OTHERWISE DIRECTED BY OWNER.
  - TRANSFER STATION TO HAVE UTILITY SERVICE DURING AND AFTER CONSTRUCTION. PROVIDE TEMPORARY SERVICE (POTABLE, SANITARY, AND POWER) DURING EXCAVATION. SEE SHEET C-071 FOR ADDITIONAL DETAILS.
  - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE FOR WETLAND INVENTORY AND WETLAND IMPACTS. SEE SHEET C-021.
  - STRIP EXISTING COVER SOIL FOR REUSE. SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  - EXCAVATE AND CONSOLIDATE WASTE. SEE SPECIFICATION 31 23 16.
  - EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION. SEE SPECIFICATION 31 23 00.
  - MAINTAIN 20' MIN. BENCH NEAR RIVER. COORDINATE WITH ENGINEER PRIOR ANY POTENTIAL EXCAVATION WITHIN THE 20' BENCH.
  - PROTECT EXPOSED WASTE FROM FLOODING. SEE SHEET C-026 FOR ADDITIONAL INFORMATION.

1 PLAN: LANDFILL EXCAVATION

SCALE IN FEET

0 200 400

12. EXCAVATE WASTE AND SOIL AT SAFE SLOPES IN ACCORDANCE WITH OSHA. CONTRACTOR SHALL PROVIDE DESIGN FOR EXCAVATION DEEPER THAN 20'.

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CADD USER: Andrea W. Tolkmier FILE: M:\DESIGN\23191372\062319137205_LINE_C-042.DWG PLOT SCALE: 1:2 PLOT DATE: 6/28/2022 8:51 AM  
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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 SIGNATURE: _____  
 DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	A	B	C	0	1	2	3
6/30/2021	6/30/2022									

**BARR** ENGINEERING CO.  
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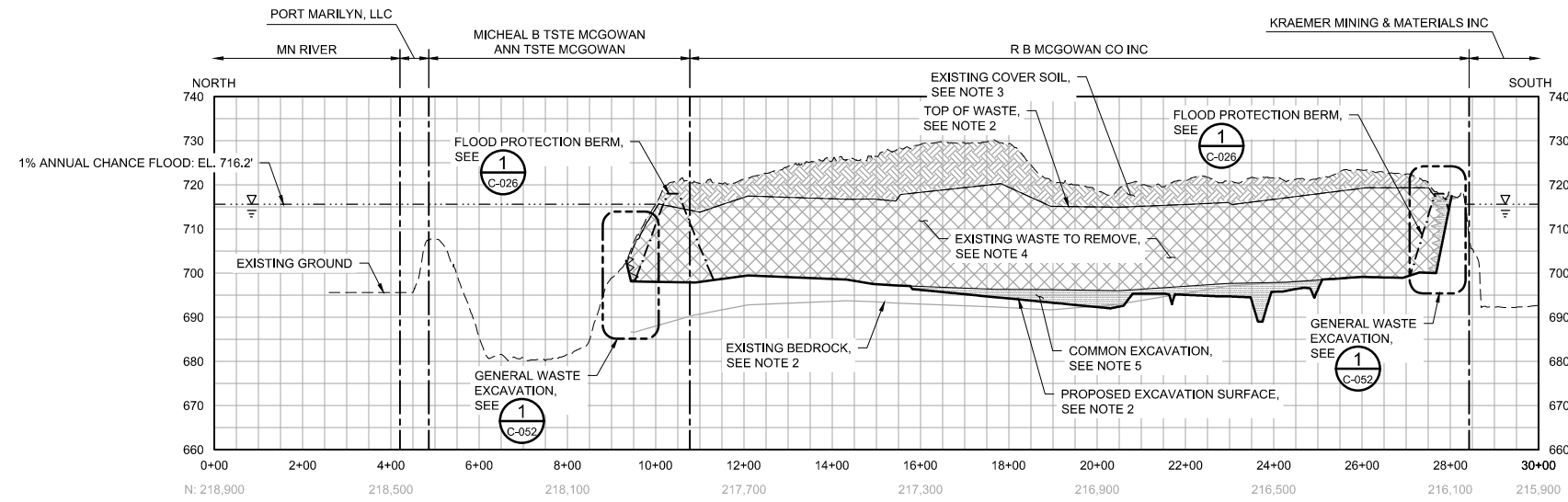
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Date	09/05/2019
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	

**MINNESOTA POLLUTION CONTROL AGENCY**

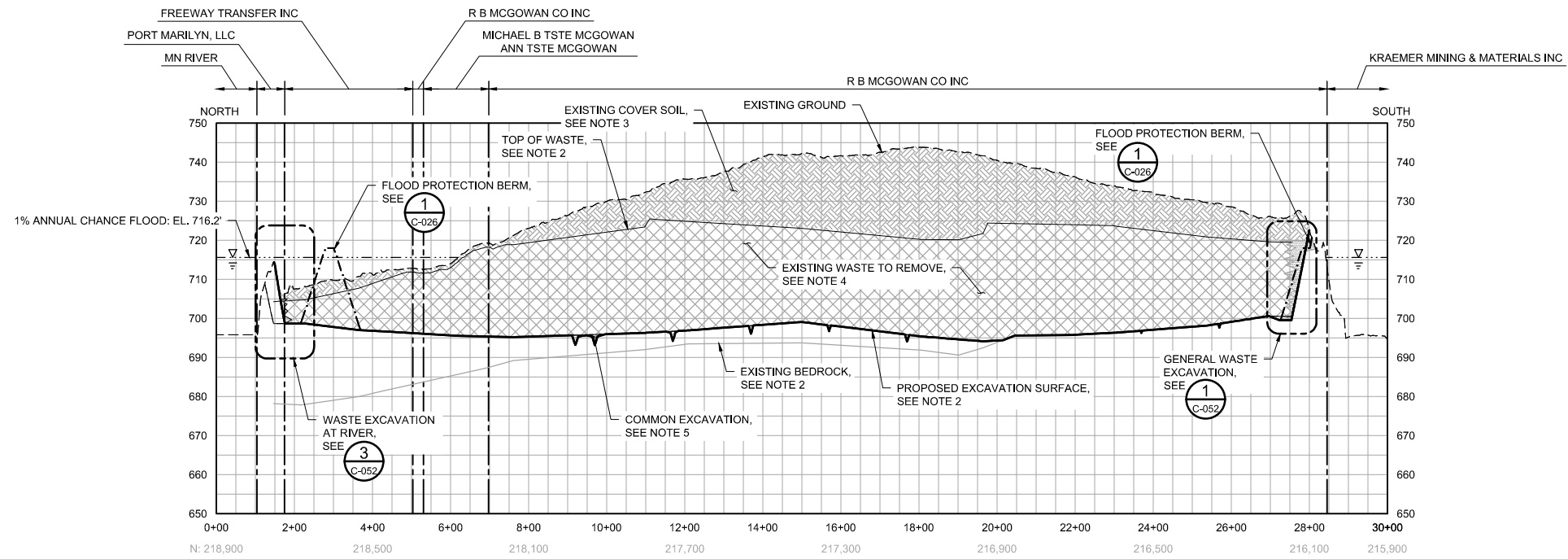
FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE		BARR PROJECT No. 23/19-1372.00	
BURNSVILLE, MINNESOTA		CLIENT PROJECT No.	
LANDFILL EXCAVATION PLAN		DWG. No. C-042	REV. No. B

**LEGEND**

- EXISTING PROPERTY LINE
- EXISTING GROUND
- EXISTING BEDROCK
- 1% ANNUAL CHANCE FLOOD: EL. 716.2'
- TEMPORARY FLOOD PROTECTION BERM
- PROPOSED EXCAVATION SURFACE, AS SHOWN ON SHEET C-042
- PROPOSED COVER SOIL EXCAVATION
- PROPOSED WASTE EXCAVATION
- PROPOSED COMMON EXCAVATION
- EXISTING WASTE TO REMAIN



**1 SECTION: LANDFILL WASTE EXCAVATION - NORTH TO SOUTH AT E: 504,800**  
 0 200 400 0 20 40  
 HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET



**2 PROFILE: LANDFILL WASTE EXCAVATION - NORTH TO SOUTH AT E: 505,400**  
 0 200 400 0 20 40  
 HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET

- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  4. EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATION 31 23 16.
  5. EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION OR TO ACHIEVE LINER SUBGRADE, SEE SPECIFICATION 31 23 00.
  6. MAINTAIN 20' MIN. BENCH NEAR RIVER. COORDINATE WITH ENGINEER PRIOR TO ANY POTENTIAL EXCAVATION WITHIN THE 20' BENCH.
  7. GROUNDWATER FLUCTUATES AND IS NOT SHOWN FOR CLARITY, SEE SHEET C-003 FOR ADDITIONAL INFORMATION.

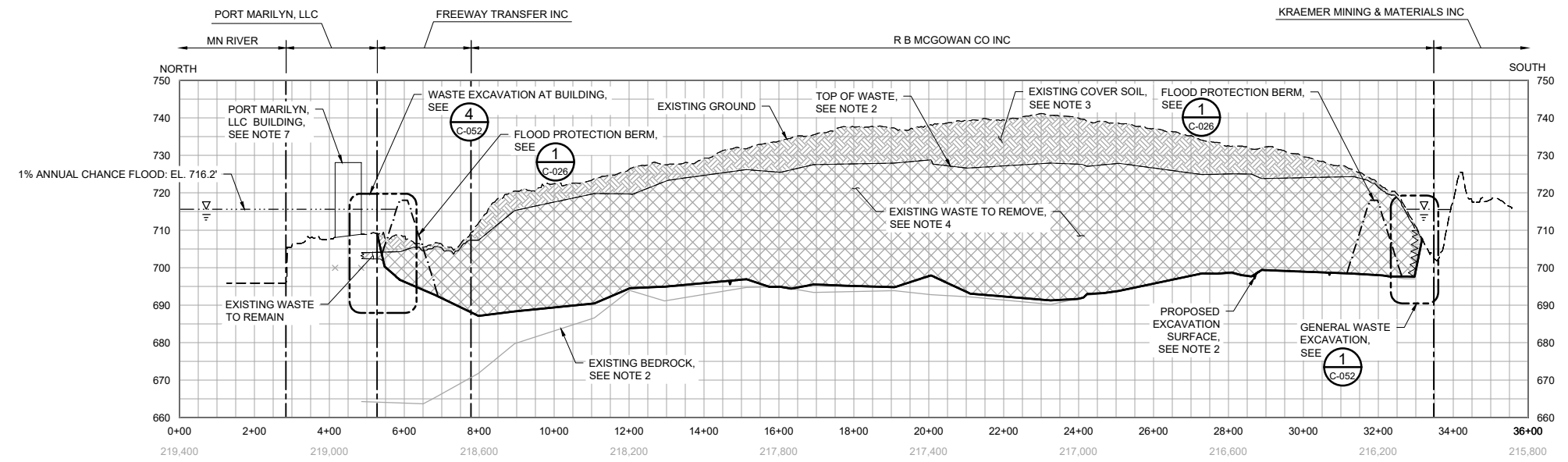
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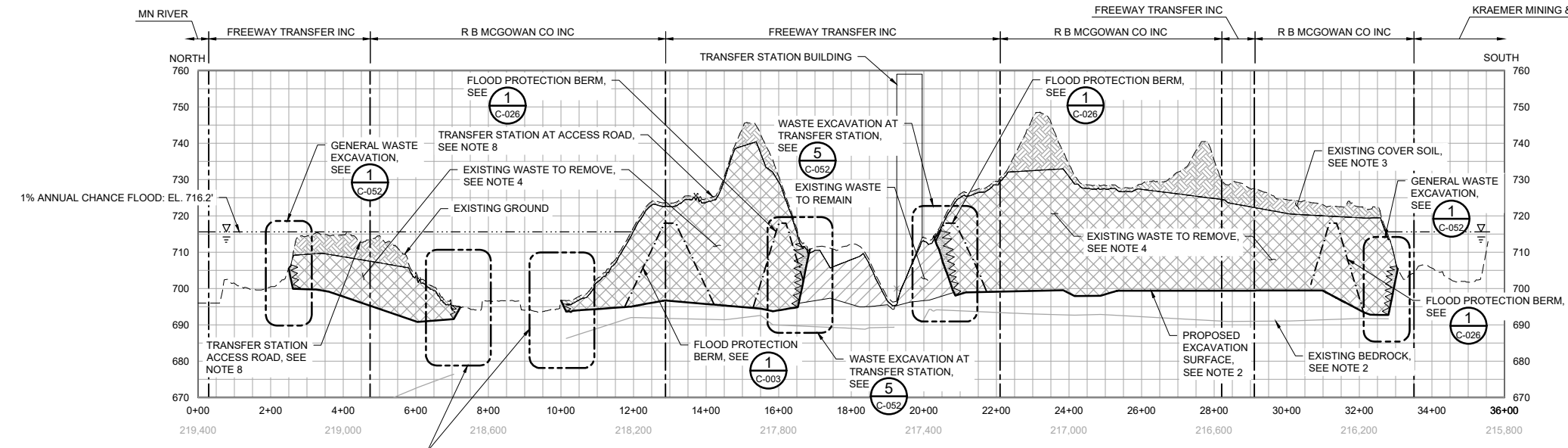
		I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID CONSTRUCTION		06/30/2021 06/30/2021		Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale AS SHOWN Date 01/23/2020 Drawn ZJN Checked BDP Designed BARR Approved				FREIGHTWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA BARR PROJECT No. 23/19-1372.00	
		PRINTED NAME _____ SIGNATURE _____ DATE _____ LICENSE # _____		RELEASED TO/FOR A B C 0 1 2 3		DATE RELEASED				LANDFILL EXCAVATION NORTH-SOUTH SECTIONS 1 OF 2		CLIENT PROJECT No. DWG. No. C-043 REV. No. B			

**LEGEND**

- EXISTING PROPERTY LINE
- - - EXISTING GROUND
- EXISTING BEDROCK
- · - · - 1% ANNUAL CHANCE FLOOD: EL. 716.2'
- - - - - TEMPORARY FLOOD PROTECTION BERM
- PROPOSED EXCAVATION SURFACE, AS SHOWN ON SHEET C-042
- [Hatched Box] PROPOSED COVER SOIL EXCAVATION
- [Cross-hatched Box] PROPOSED WASTE EXCAVATION
- [Diagonal Hatched Box] PROPOSED COMMON EXCAVATION
- [Diagonal Hatched Box] EXISTING WASTE TO REMAIN



**1 SECTION: LANDFILL WASTE EXCAVATION - NORTH TO SOUTH AT E: 506,000**  
 HORIZONTAL SCALE IN FEET: 0, 200, 400  
 VERTICAL SCALE IN FEET: 0, 20, 40



**2 SECTION: LANDFILL WASTE EXCAVATION - NORTH TO SOUTH AT E: 506,600**  
 HORIZONTAL SCALE IN FEET: 0, 200, 400  
 VERTICAL SCALE IN FEET: 0, 20, 40

- NOTES:**
- PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  - THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  - STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  - EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATION 31 23 16.
  - EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION OR TO ACHIEVE LINER SUBGRADE, SEE SPECIFICATION 31 23 00.
  - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
  - EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT PORT MARILYN, LLC PROPERTY ADJACENT TO BUILDINGS AND INFRASTRUCTURE, UNLESS OTHERWISE DIRECTED BY OWNER.
  - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROPRIATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
  - GROUNDWATER FLUCTUATES AND IS NOT SHOWN FOR CLARITY, SEE SHEET C-003 FOR ADDITIONAL INFORMATION.

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 06/30/2022

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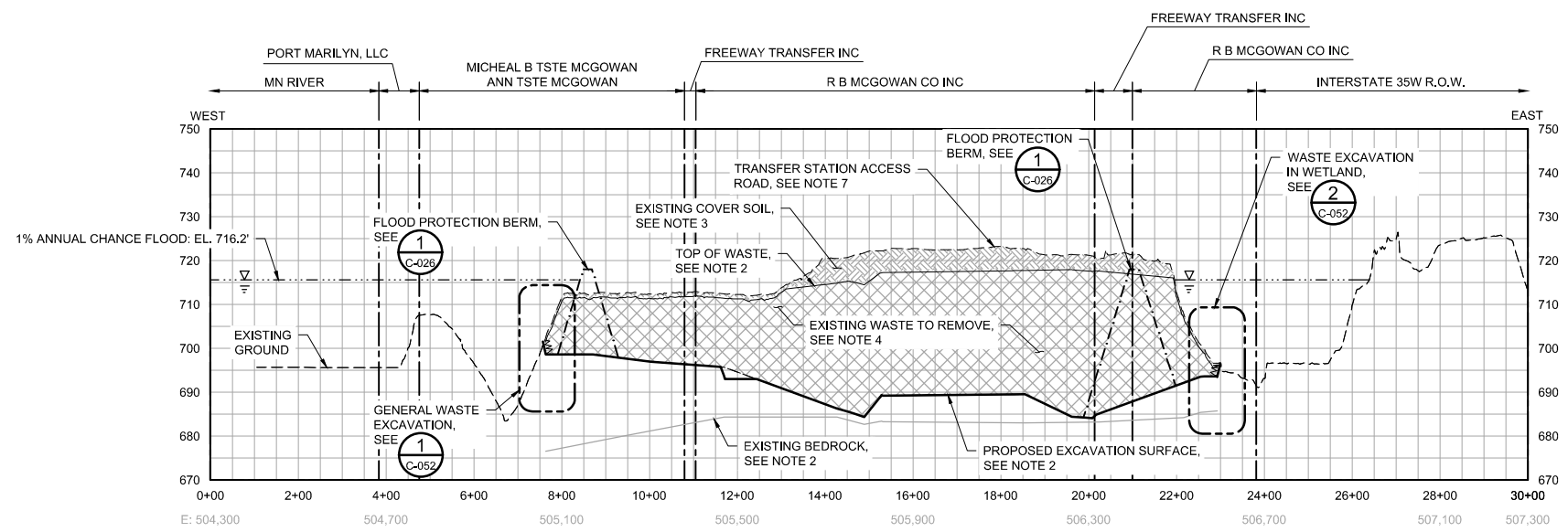
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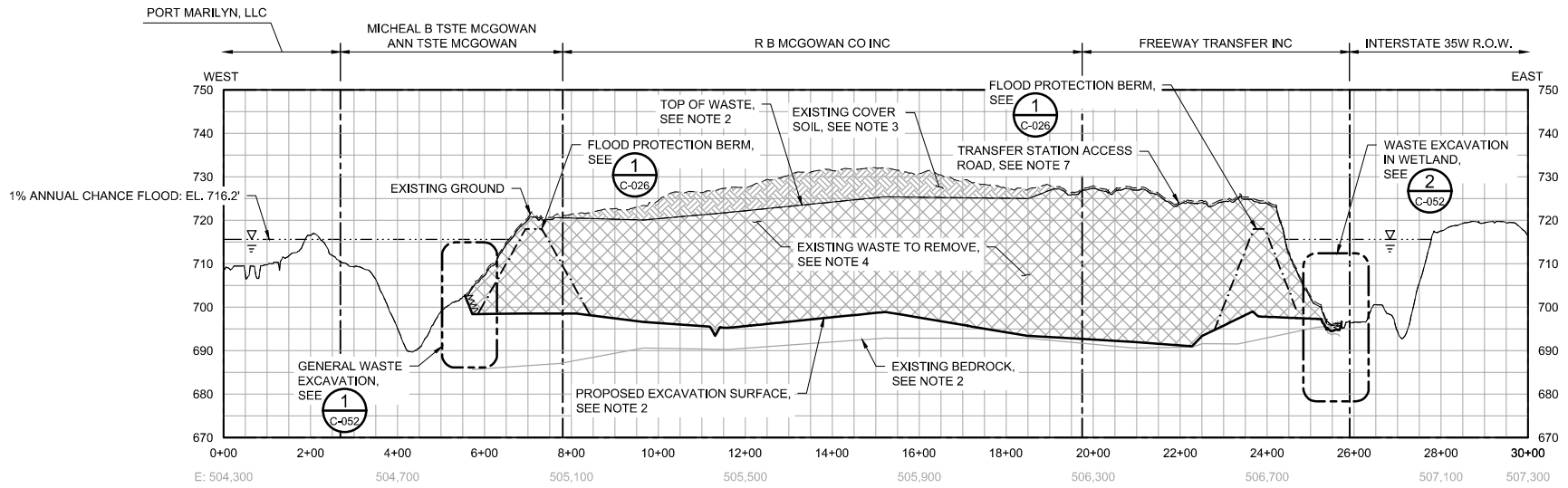


**LEGEND**

- EXISTING PROPERTY LINE
- - - EXISTING GROUND
- EXISTING BEDROCK
- · - · - 1% ANNUAL CHANCE FLOOD: EL. 716.2'
- · - · - TEMPORARY FLOOD PROTECTION BERM
- PROPOSED EXCAVATION SURFACE, AS SHOWN ON SHEET C-042
- ▨ PROPOSED COVER SOIL EXCAVATION
- ▩ PROPOSED WASTE EXCAVATION
- ▧ PROPOSED COMMON EXCAVATION
- ▨ EXISTING WASTE TO REMAIN



**1 SECTION: LANDFILL WASTE EXCAVATION WEST TO EAST AT N: 218,700**  
 0 200 400 0 20 40  
 HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET



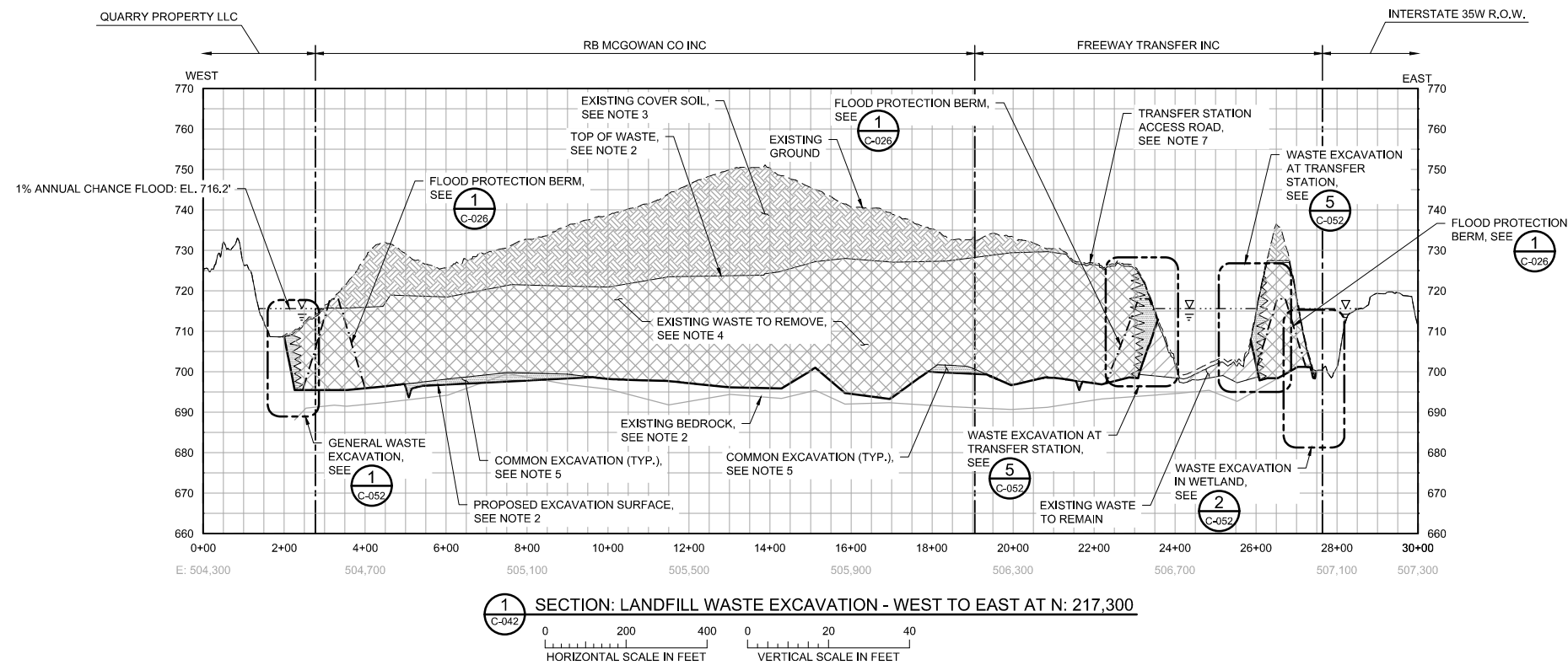
**2 SECTION: LANDFILL WASTE EXCAVATION - WEST TO EAST AT N: 218,000**  
 0 200 400 0 20 40  
 HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET

- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  4. EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATION 31 23 16.
  5. EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION OR TO ACHIEVE LINER SUBGRADE, SEE SPECIFICATION 31 23 00.
  6. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
  7. TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROPRIATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
  8. GROUNDWATER FLUCTUATES AND IS NOT SHOWN FOR CLARITY, SEE SHEET C-003 FOR ADDITIONAL INFORMATION.

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 06/30/2022

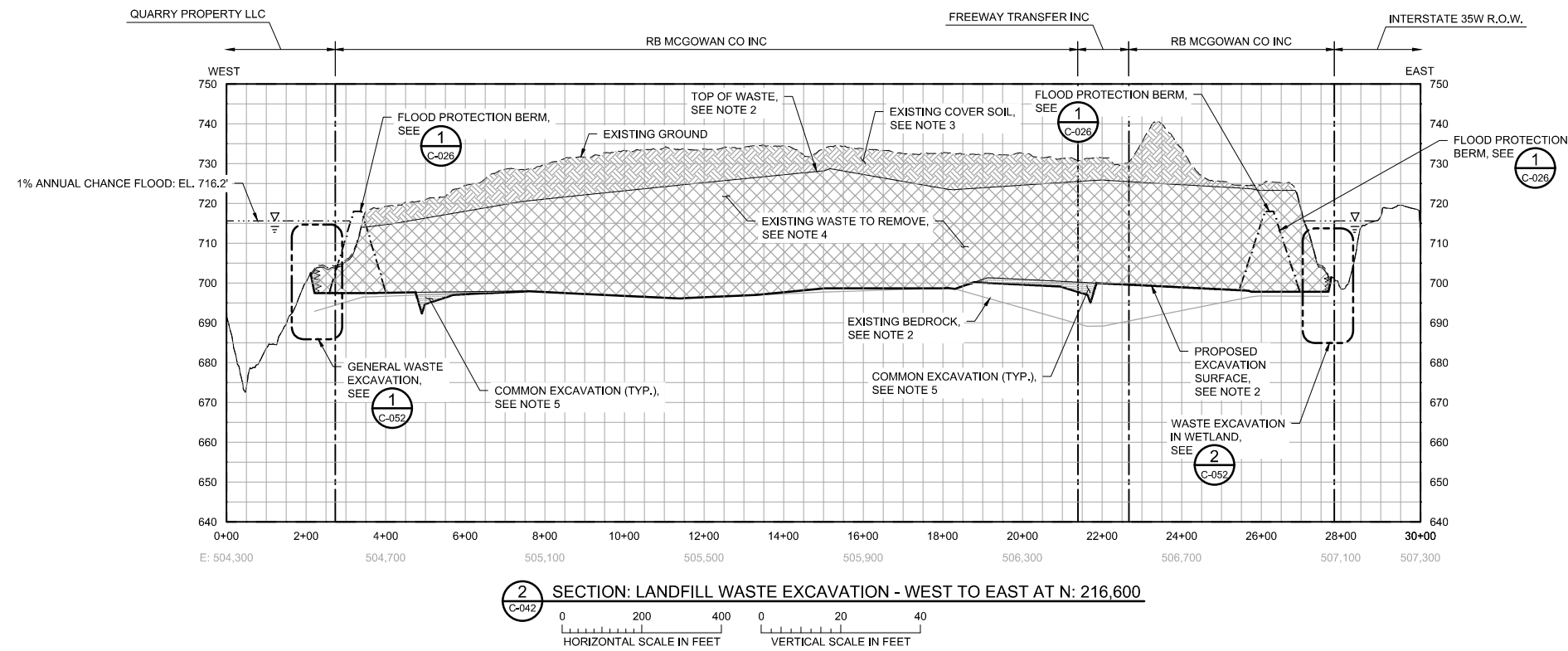
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				RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED: _____								MINNESOTA POLLUTION CONTROL AGENCY		CLIENT PROJECT No. _____ DWG. No. C-045 REV. No. B	
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION										



**LEGEND**

---	EXISTING PROPERTY LINE
- - - -	EXISTING GROUND
---	EXISTING BEDROCK
- · - · - ·	1% ANNUAL CHANCE FLOOD: EL. 716.2'
- - - -	TEMPORARY FLOOD PROTECTION BERM
--- (cross-hatch) ---	PROPOSED EXCAVATION SURFACE, AS SHOWN ON SHEET C-042
--- (diagonal lines) ---	PROPOSED COVER SOIL EXCAVATION
--- (diagonal lines) ---	PROPOSED WASTE EXCAVATION
--- (horizontal lines) ---	PROPOSED COMMON EXCAVATION
--- (diagonal lines) ---	EXISTING WASTE TO REMAIN

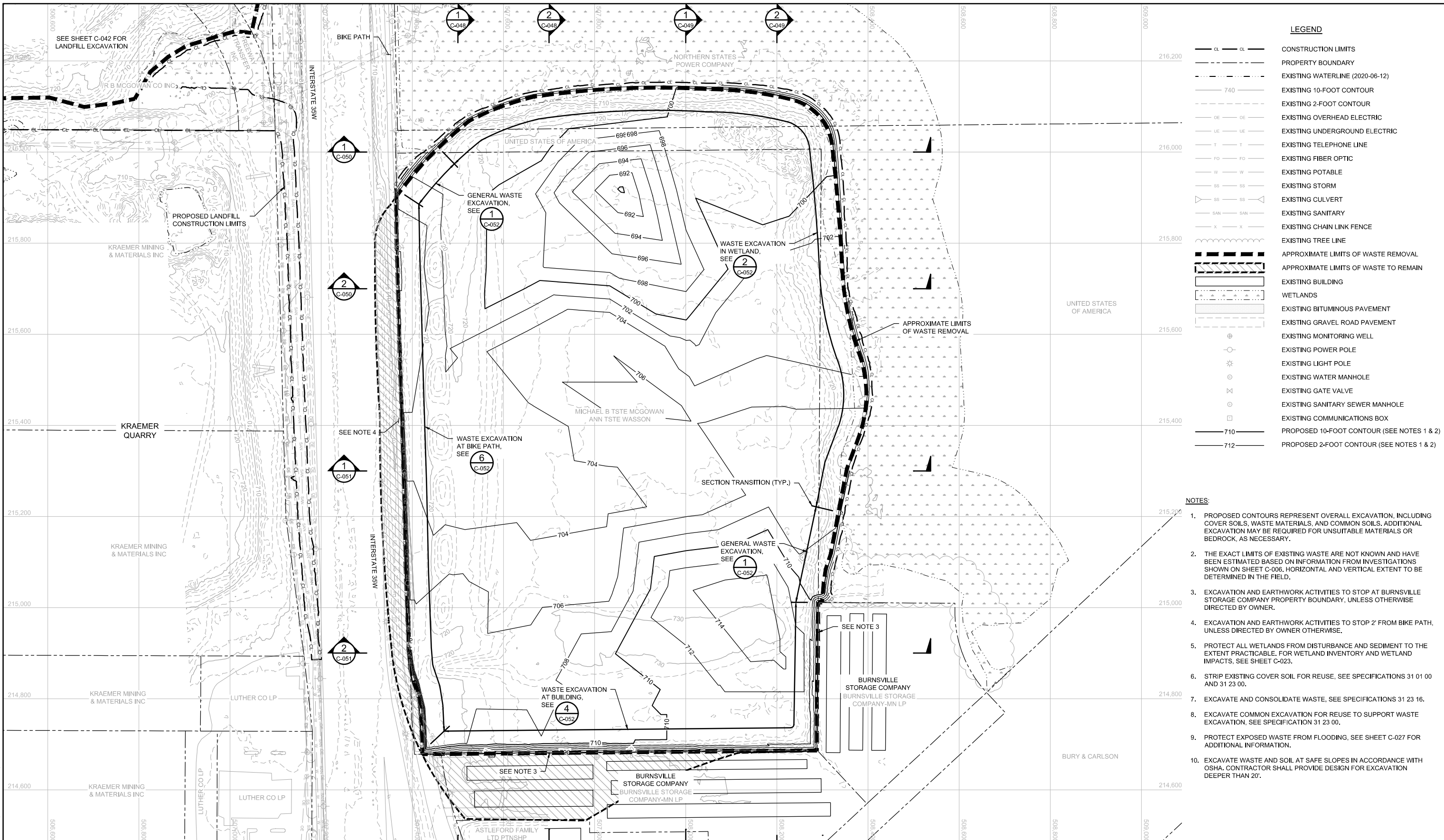


- NOTES:**
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  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  4. EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATION 31 23 16.
  5. EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION OR TO ACHIEVE LINER SUBGRADE, SEE SPECIFICATION 31 23 00.
  6. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
  7. TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROPRIATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
  8. GROUNDWATER FLUCTUATES AND IS NOT SHOWN FOR CLARITY, SEE SHEET C-003 FOR ADDITIONAL INFORMATION.

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100% DRAFT  
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 06/30/2022

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				CLIENT: RB MCGOWAN CO INC BID: CONSTRUCTION RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:				Project Office: <b>BARR ENGINEERING CO.</b> 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				Scale: AS SHOWN Date: 01/23/2020 Drawn: ZJN Checked: BDP Designed: BARR Approved:				<b>MINNESOTA POLLUTION CONTROL AGENCY</b>				FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA LANDFILL EXCAVATION WEST-EAST SECTIONS 2 OF 2				BARR PROJECT No. 23/19-1372.00 CLIENT PROJECT No. DWG. No. C-046 REV. No. B			
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION																						



**LEGEND**

CL	CL	CONSTRUCTION LIMITS
---	---	PROPERTY BOUNDARY
---	---	EXISTING WATERLINE (2020-06-12)
---	---	EXISTING 10-FOOT CONTOUR
---	---	EXISTING 2-FOOT CONTOUR
---	---	EXISTING OVERHEAD ELECTRIC
---	---	EXISTING UNDERGROUND ELECTRIC
T	T	EXISTING TELEPHONE LINE
FO	FO	EXISTING FIBER OPTIC
W	W	EXISTING POTABLE
SS	SS	EXISTING STORM
SS	SS	EXISTING CULVERT
SAN	SAN	EXISTING SANITARY
X	X	EXISTING CHAIN LINK FENCE
---	---	EXISTING TREE LINE
---	---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	---	EXISTING BUILDING
---	---	WETLANDS
---	---	EXISTING BITUMINOUS PAVEMENT
---	---	EXISTING GRAVEL ROAD PAVEMENT
+	+	EXISTING MONITORING WELL
○	○	EXISTING POWER POLE
*	*	EXISTING LIGHT POLE
⊗	⊗	EXISTING WATER MANHOLE
⊗	⊗	EXISTING GATE VALVE
⊗	⊗	EXISTING SANITARY SEWER MANHOLE
⊗	⊗	EXISTING COMMUNICATIONS BOX
---	---	PROPOSED 10-FOOT CONTOUR (SEE NOTES 1 & 2)
---	---	PROPOSED 2-FOOT CONTOUR (SEE NOTES 1 & 2)

- NOTES:**
1. PROPOSED CONTOURS REPRESENT OVERALL EXCAVATION, INCLUDING COVER SOILS, WASTE MATERIALS, AND COMMON SOILS. ADDITIONAL EXCAVATION MAY BE REQUIRED FOR UNSUITABLE MATERIALS OR BEDROCK, AS NECESSARY.
  2. THE EXACT LIMITS OF EXISTING WASTE ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT BURNSVILLE STORAGE COMPANY PROPERTY BOUNDARY, UNLESS OTHERWISE DIRECTED BY OWNER.
  4. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP 2' FROM BIKE PATH, UNLESS DIRECTED BY OWNER OTHERWISE.
  5. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
  6. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  7. EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATIONS 31 23 16.
  8. EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION, SEE SPECIFICATION 31 23 00.
  9. PROTECT EXPOSED WASTE FROM FLOODING, SEE SHEET C-027 FOR ADDITIONAL INFORMATION.
  10. EXCAVATE WASTE AND SOIL AT SAFE SLOPES IN ACCORDANCE WITH OSHA. CONTRACTOR SHALL PROVIDE DESIGN FOR EXCAVATION DEEPER THAN 20'.

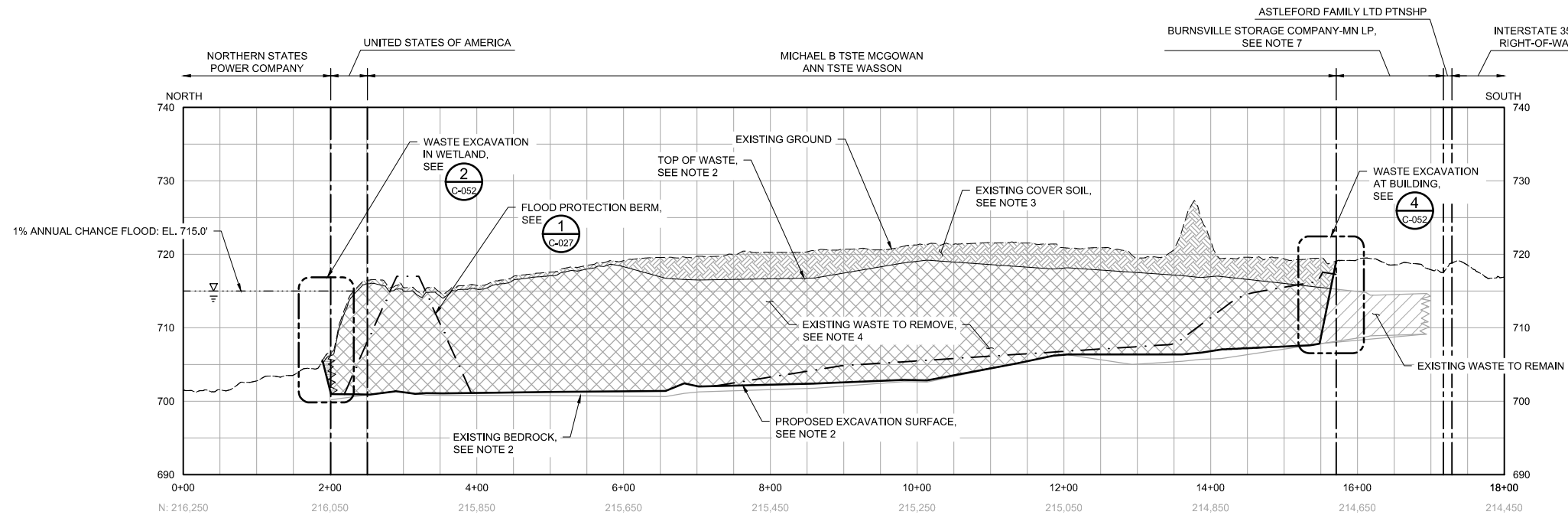
1 PLAN: DUMP EXCAVATION

0 100 200  
SCALE IN FEET

100% DRAFT  
NOT FOR CONSTRUCTION  
06/30/2022

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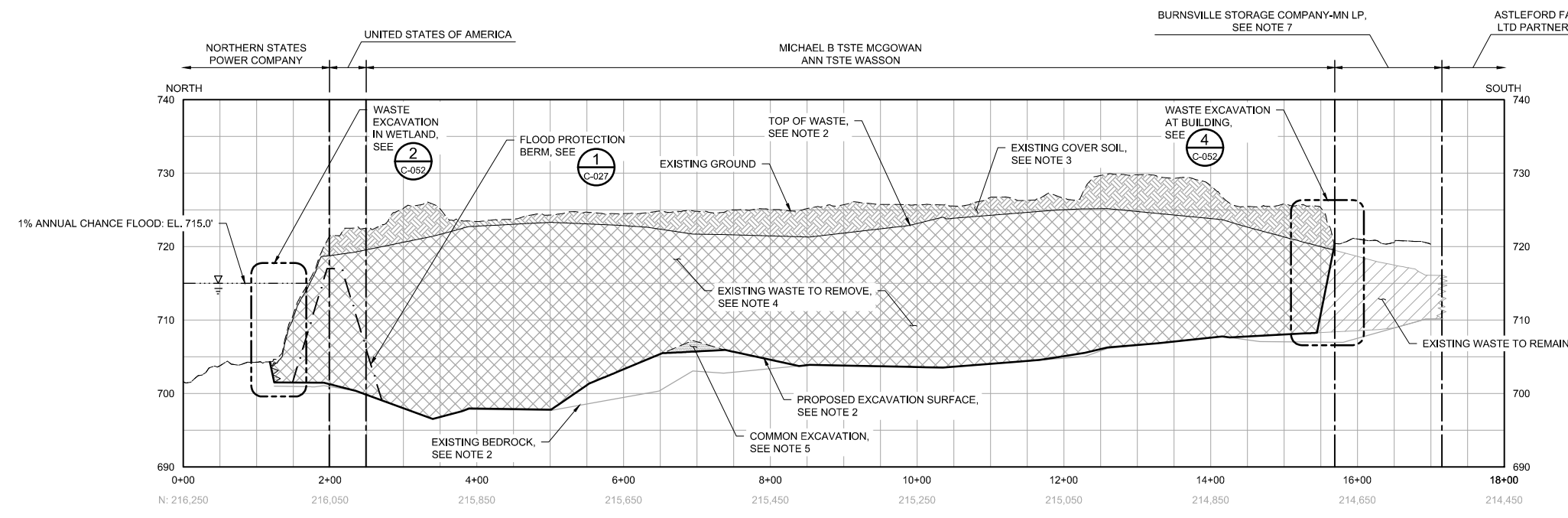
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID CONSTRUCTION	06/30/2022 06/30/2022	<b>BARR</b> Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: 1-800-632-2601 www.barr.com	Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	Scale: AS SHOWN Date: 09/05/2019 Drawn: AWT Checked: BDP Designed: BARR Approved:	FREEWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA	BARR PROJECT No. 23/19-1372.00	
PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE #: _____		RELEASED TO/FOR:	DATE RELEASED:	<b>MINNESOTA POLLUTION CONTROL AGENCY</b>		DUMP EXCAVATION PLAN	CLIENT PROJECT No.		
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION			DWG. No. C-047	REV. No. B



**1** SECTION: DUMP WASTE EXCAVATION - NORTH TO SOUTH AT E: 507,500  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20

**LEGEND**

---	EXISTING PROPERTY LINE
- - - -	EXISTING GROUND
---	EXISTING BEDROCK
- · - · - ·	1% ANNUAL CHANCE FLOOD: EL. 715.0'
- - - -	TEMPORARY FLOOD PROTECTION BERM
---	PROPOSED EXCAVATION SURFACE, AS SHOWN ON SHEET C-047
▨	PROPOSED COVER SOIL EXCAVATION
▩	PROPOSED WASTE EXCAVATION
▧	PROPOSED COMMON EXCAVATION
▨	EXISTING WASTE TO REMAIN



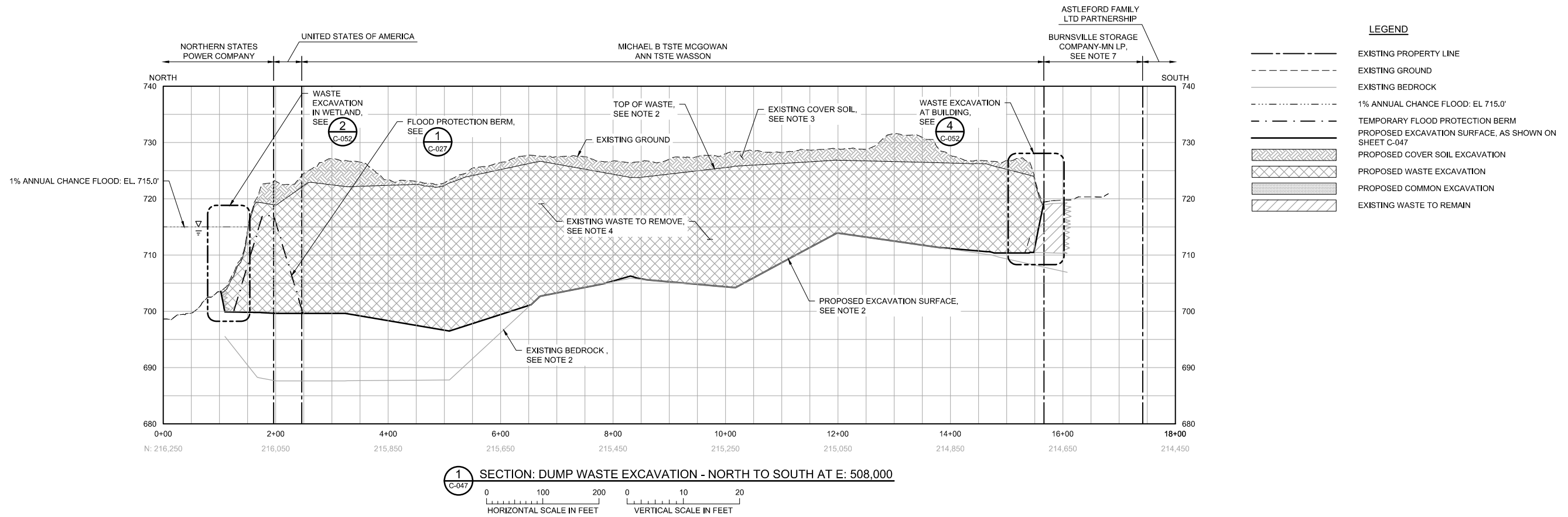
**2** SECTION: DUMP WASTE EXCAVATION - NORTH TO SOUTH AT E: 507,700  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20

- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  4. EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATION 31 23 16.
  5. EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION, SEE SPECIFICATION 31 23 00.
  6. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
  7. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT BURNSVILLE STORAGE COMPANY PROPERTY BOUNDARY, UNLESS OTHERWISE DIRECTED BY OWNER.
  8. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.
  9. GROUNDWATER FLUCTUATES AND IS NOT SHOWN FOR CLARITY, SEE SHEET C-007 FOR ADDITIONAL INFORMATION.

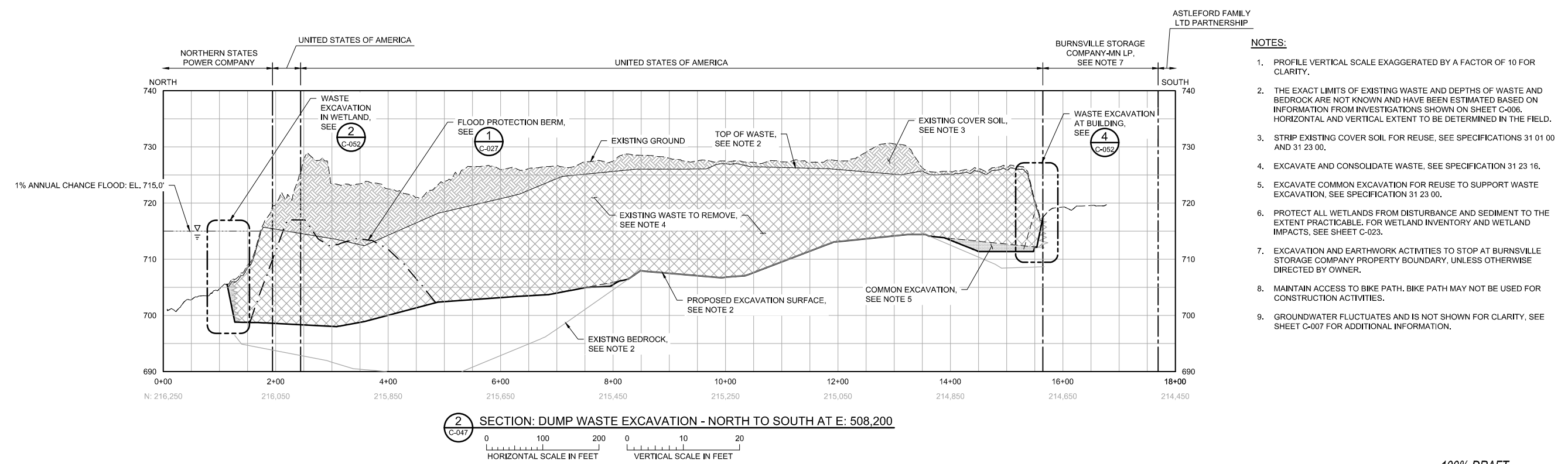
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 06/30/2022

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE #: _____					CLIENT: BURNSVILLE STORAGE COMPANY PROJECT: DUMP EXCAVATION RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:					Project Office: <b>BARR ENGINEERING CO.</b> 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com					Scale: AS SHOWN Date: 01/23/2020 Drawn: ZJN Checked: BDP Designed: BARR Approved:					<b>MINNESOTA POLLUTION CONTROL AGENCY</b>					FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA DUMP EXCAVATION NORTH-SOUTH SECTIONS 1 OF 2					BARR PROJECT No. 23/19-1372.00 CLIENT PROJECT No. _____ DWG. No. C-048 REV. No. B				
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**1** SECTION: DUMP WASTE EXCAVATION - NORTH TO SOUTH AT E: 508,000  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20



**2** SECTION: DUMP WASTE EXCAVATION - NORTH TO SOUTH AT E: 508,200  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20

- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  4. EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATION 31 23 16.
  5. EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION, SEE SPECIFICATION 31 23 00.
  6. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
  7. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT BURNSVILLE STORAGE COMPANY PROPERTY BOUNDARY, UNLESS OTHERWISE DIRECTED BY OWNER.
  8. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.
  9. GROUNDWATER FLUCTUATES AND IS NOT SHOWN FOR CLARITY, SEE SHEET C-007 FOR ADDITIONAL INFORMATION.

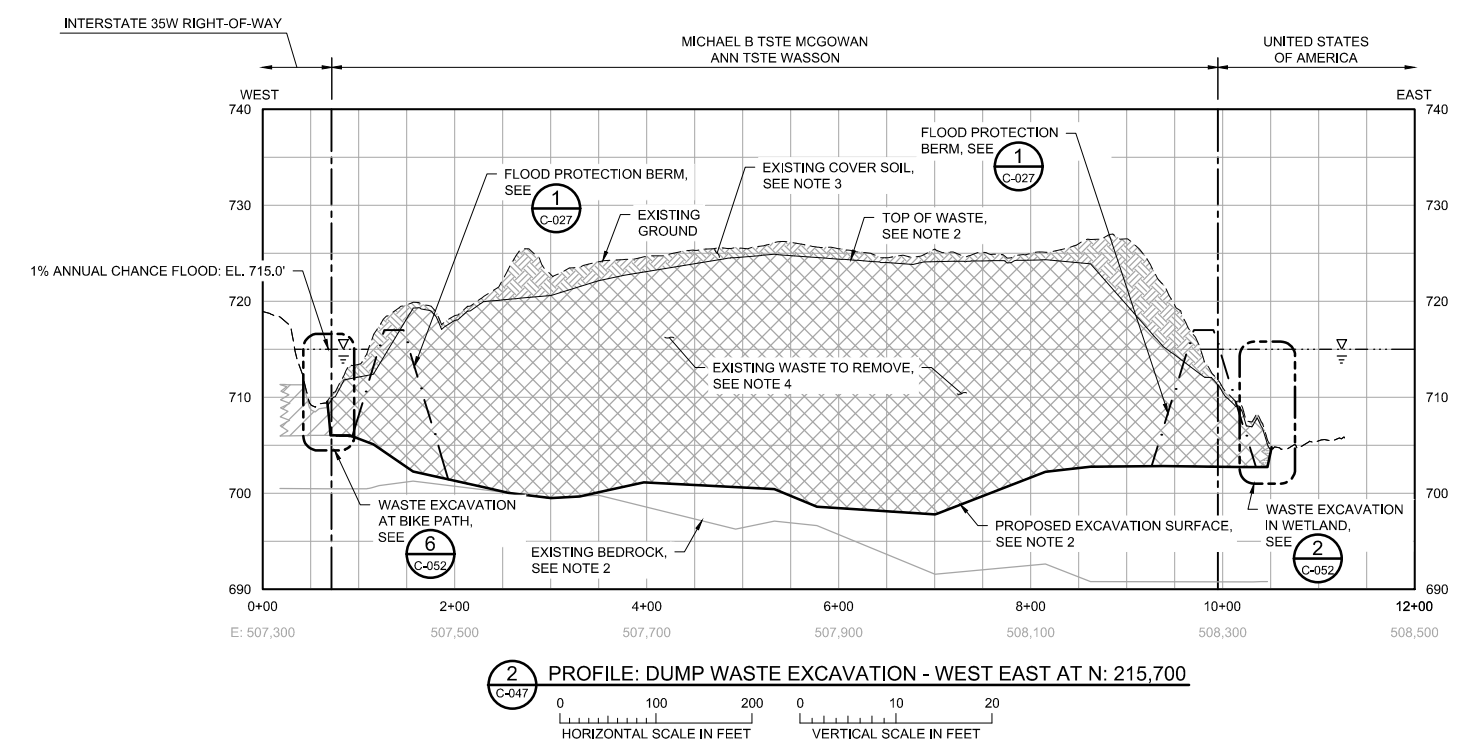
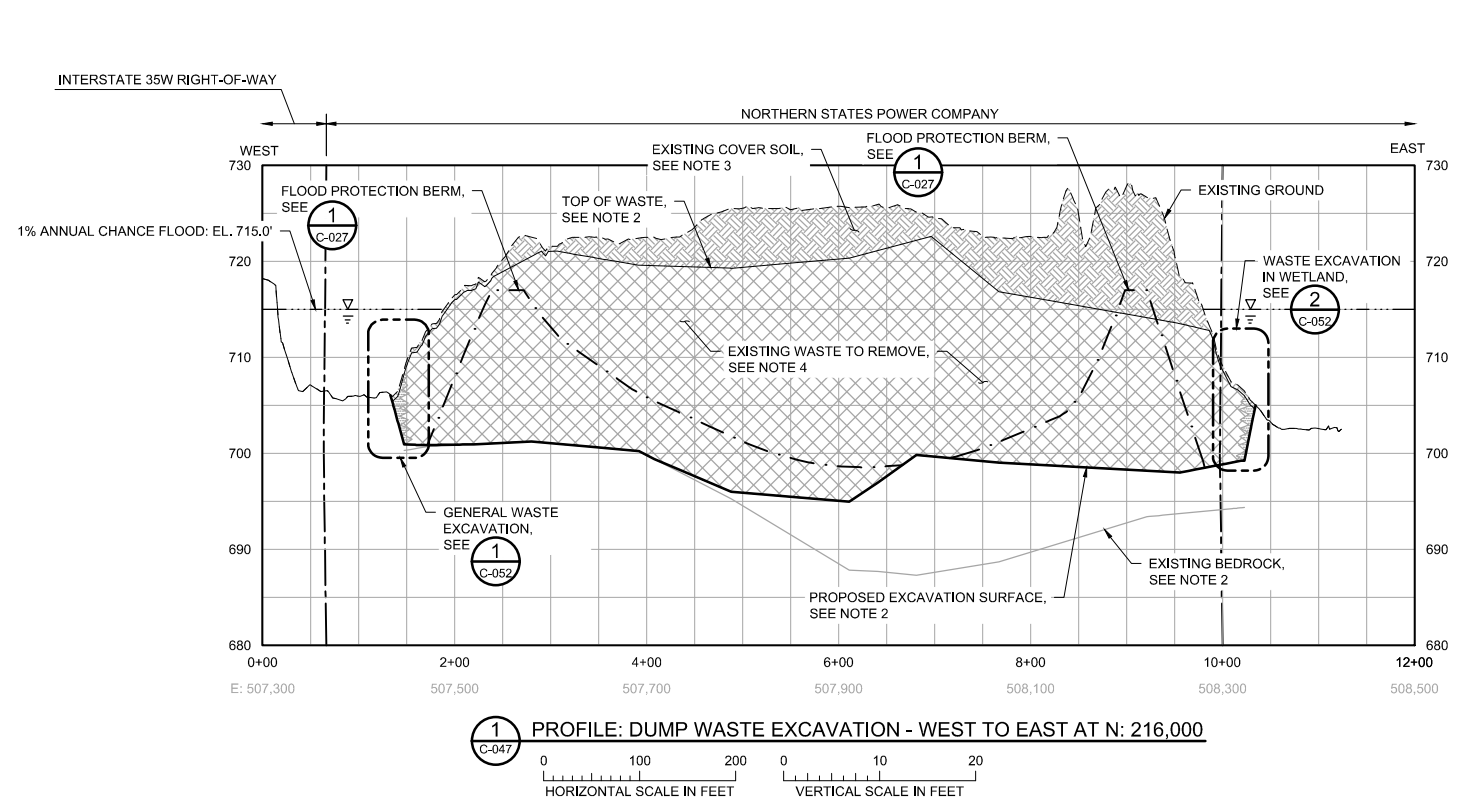
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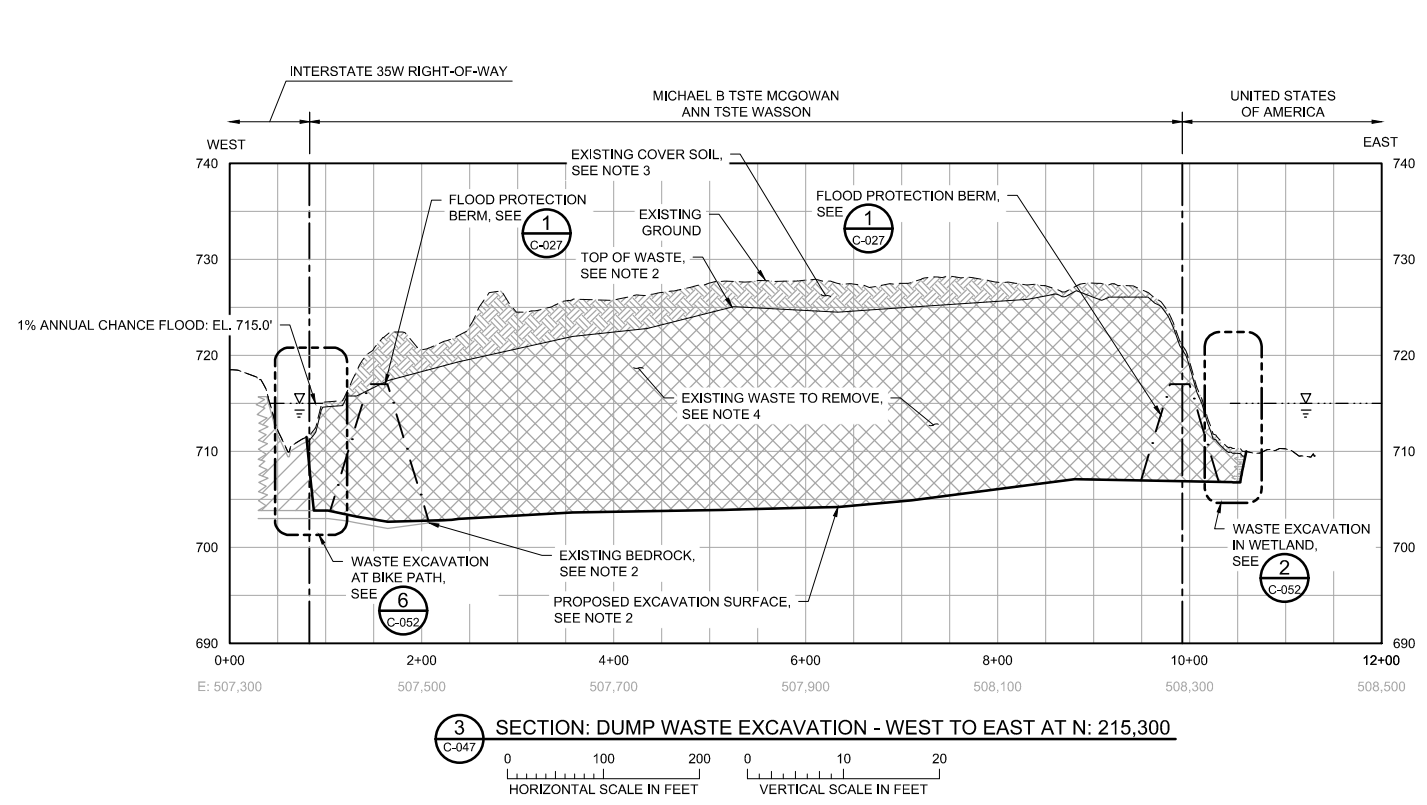


- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-06. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  4. EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATION 31 23 16.
  5. EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION, SEE SPECIFICATION 31 23 00.
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  7. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT BURNSVILLE STORAGE COMPANY PROPERTY BOUNDARY, UNLESS OTHERWISE DIRECTED BY OWNER.
  8. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.
  9. GROUNDWATER FLUCTUATES AND IS NOT SHOWN FOR CLARITY, SEE SHEET C-007 FOR ADDITIONAL INFORMATION.

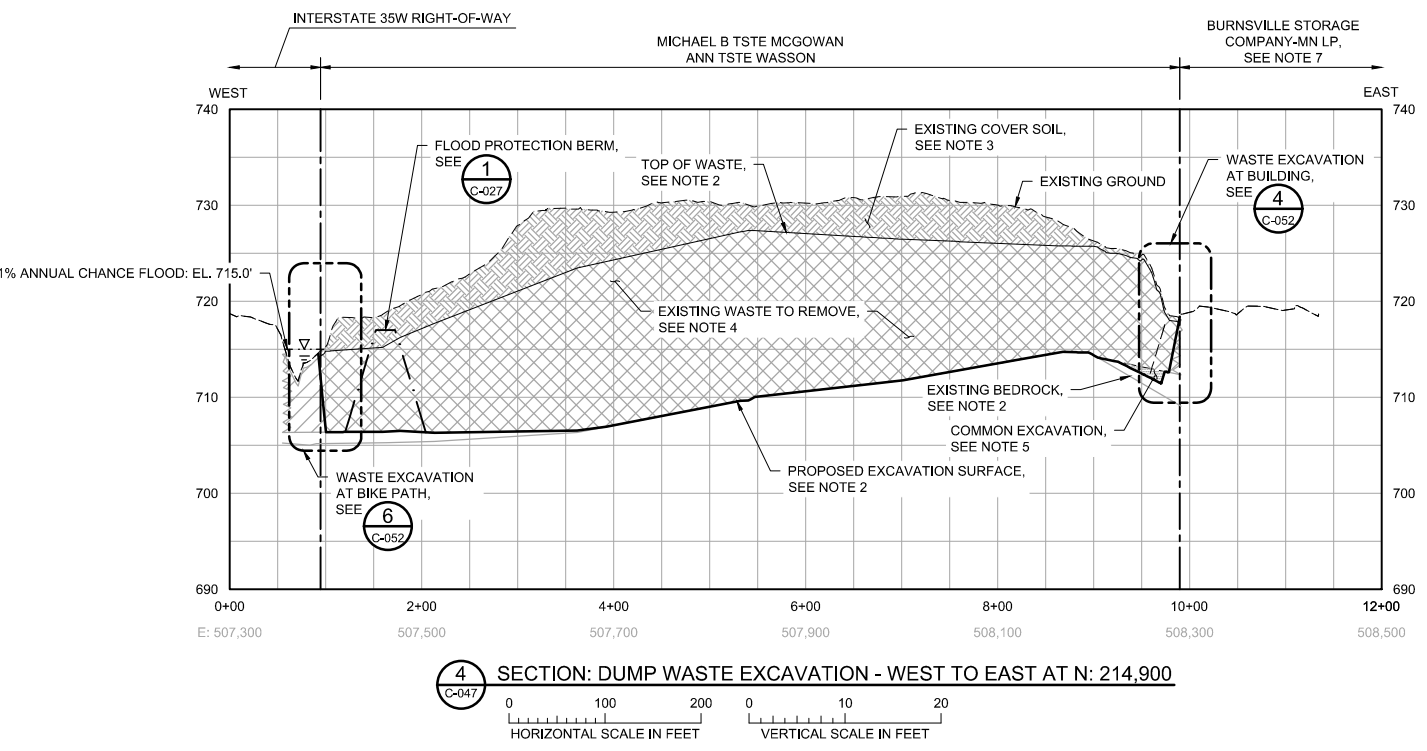
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				I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				CLIENT 06/30/2021 06/30/2022				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435				Scale: AS SHOWN Date: 01/23/2020 Drawn: ZJN Checked: BDP Designed: BARR Approved: -				FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA				BARR PROJECT No. 23/19-1372.00			
				PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE # _____				RELEASED TO/ FOR: A B C 0 1 2 3				Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				MINNESOTA POLLUTION CONTROL AGENCY				DUMP EXCAVATION WEST-EAST SECTIONS 1 OF 2				CLIENT PROJECT No.			
NO. BY CHK. APP. DATE REVISION DESCRIPTION																DWG. No. C-050				REV. No. B							

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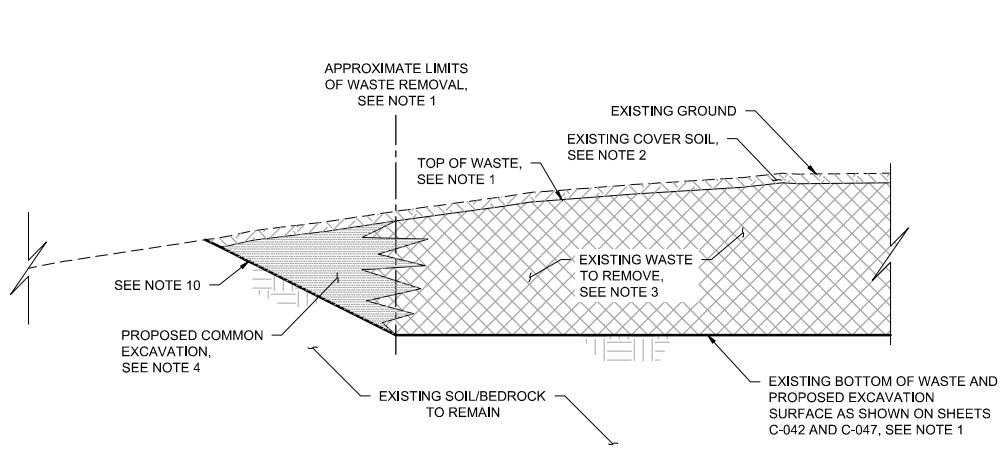
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	EXISTING GROUND
	EXISTING BEDROCK
	1% ANNUAL CHANCE FLOOD: EL. 715.0'
	TEMPORARY FLOOD PROTECTION BERM
	PROPOSED EXCAVATION SURFACE, AS SHOWN ON SHEET C-047
	PROPOSED COVER SOIL EXCAVATION
	PROPOSED WASTE EXCAVATION
	PROPOSED COMMON EXCAVATION
	EXISTING WASTE TO REMAIN



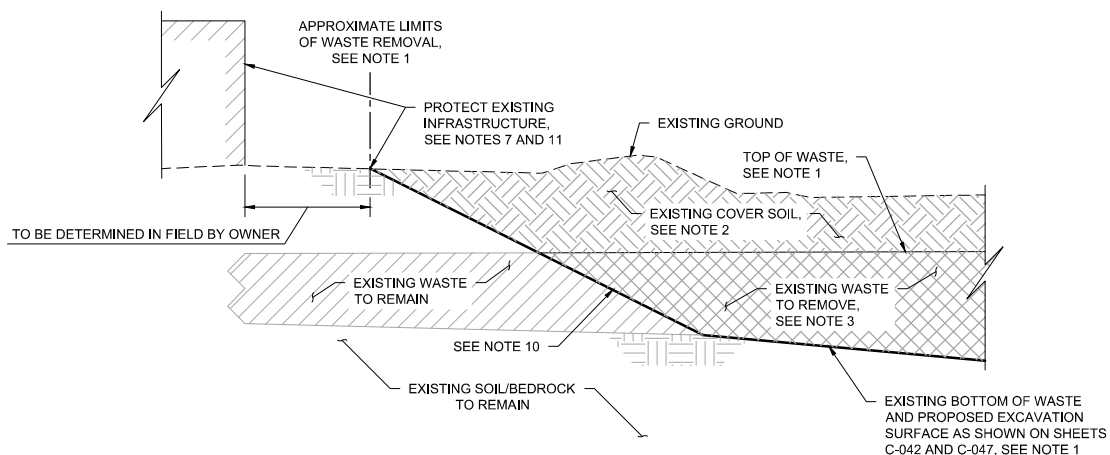
- NOTES:**
- PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  - THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  - STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  - EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATION 31 23 16.
  - EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION, SEE SPECIFICATION 31 23 00.
  - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
  - EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT BURNSVILLE STORAGE COMPANY PROPERTY BOUNDARY, UNLESS OTHERWISE DIRECTED BY OWNER.
  - MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.
  - GROUNDWATER FLUCTUATES AND IS NOT SHOWN FOR CLARITY, SEE SHEET C-007 FOR ADDITIONAL INFORMATION.

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 NOT FOR CONSTRUCTION  
 06/30/2022

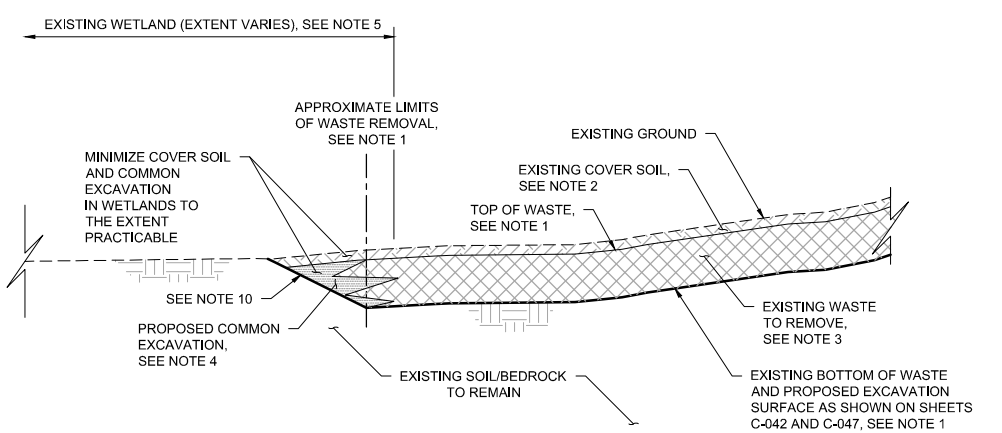
				I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				CLIENT: 06/30/2021 BID: 06/30/2021 CONSTRUCTION:				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				Scale: AS SHOWN Date: 01/23/2020 Drawn: ZJN Checked: BDP Designed: BARR Approved:								FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA DUMP EXCAVATION WEST-EAST SECTIONS 2 OF 2				BARR PROJECT No. 23/19-1372.00 CLIENT PROJECT No. DWG. No. C-051 REV. No. B																							
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION																																														
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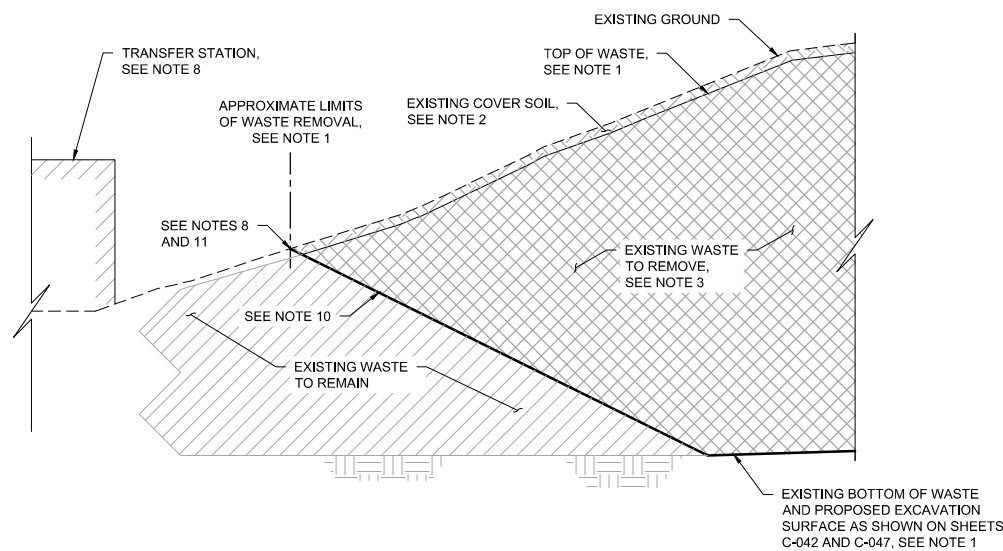
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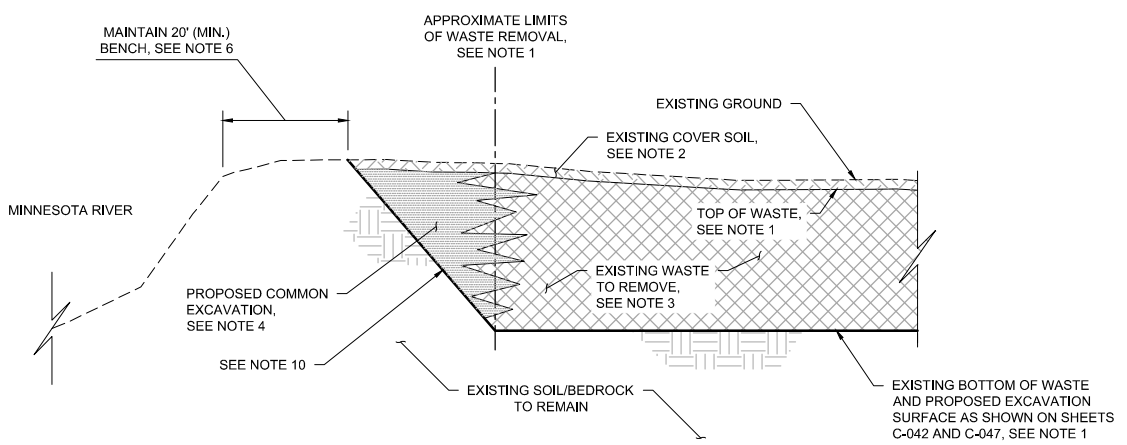
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C-042, C-047 NOT TO SCALE



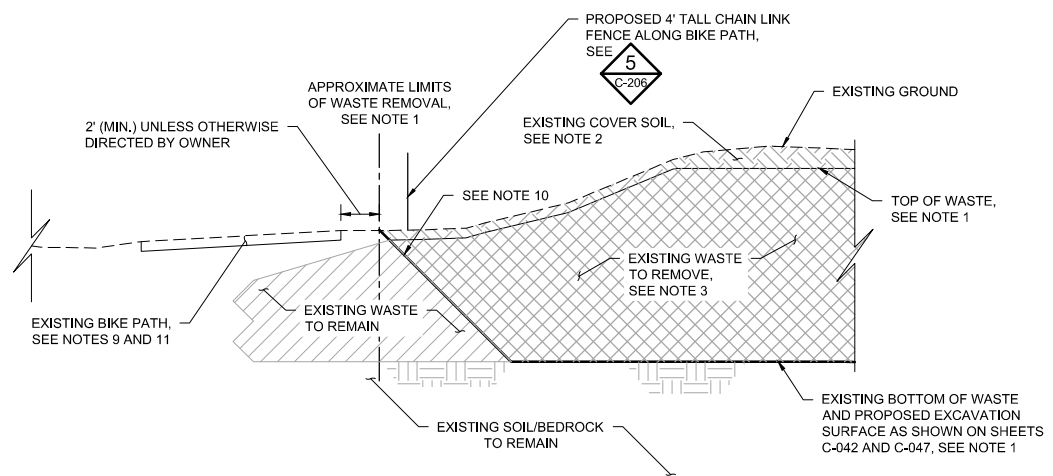
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C-042, C-047 NOT TO SCALE



5 SECTION: WASTE EXCAVATION AT TRANSFER STATION (TYP.)  
C-042 NOT TO SCALE



3 SECTION: WASTE EXCAVATION AT RIVER (TYP.)  
C-042, C-047 NOT TO SCALE



6 SECTION: WASTE EXCAVATION AT BIKE PATH (TYP.)  
C-047 NOT TO SCALE

**LEGEND**

---	EXISTING GROUND
---	PROPOSED EXCAVATION SURFACE
▨	PROPOSED COVER SOIL EXCAVATION
▨	PROPOSED WASTE EXCAVATION
▨	PROPOSED COMMON EXCAVATION
▨	EXISTING WASTE TO REMAIN
▨	EXISTING SOIL TO REMAIN

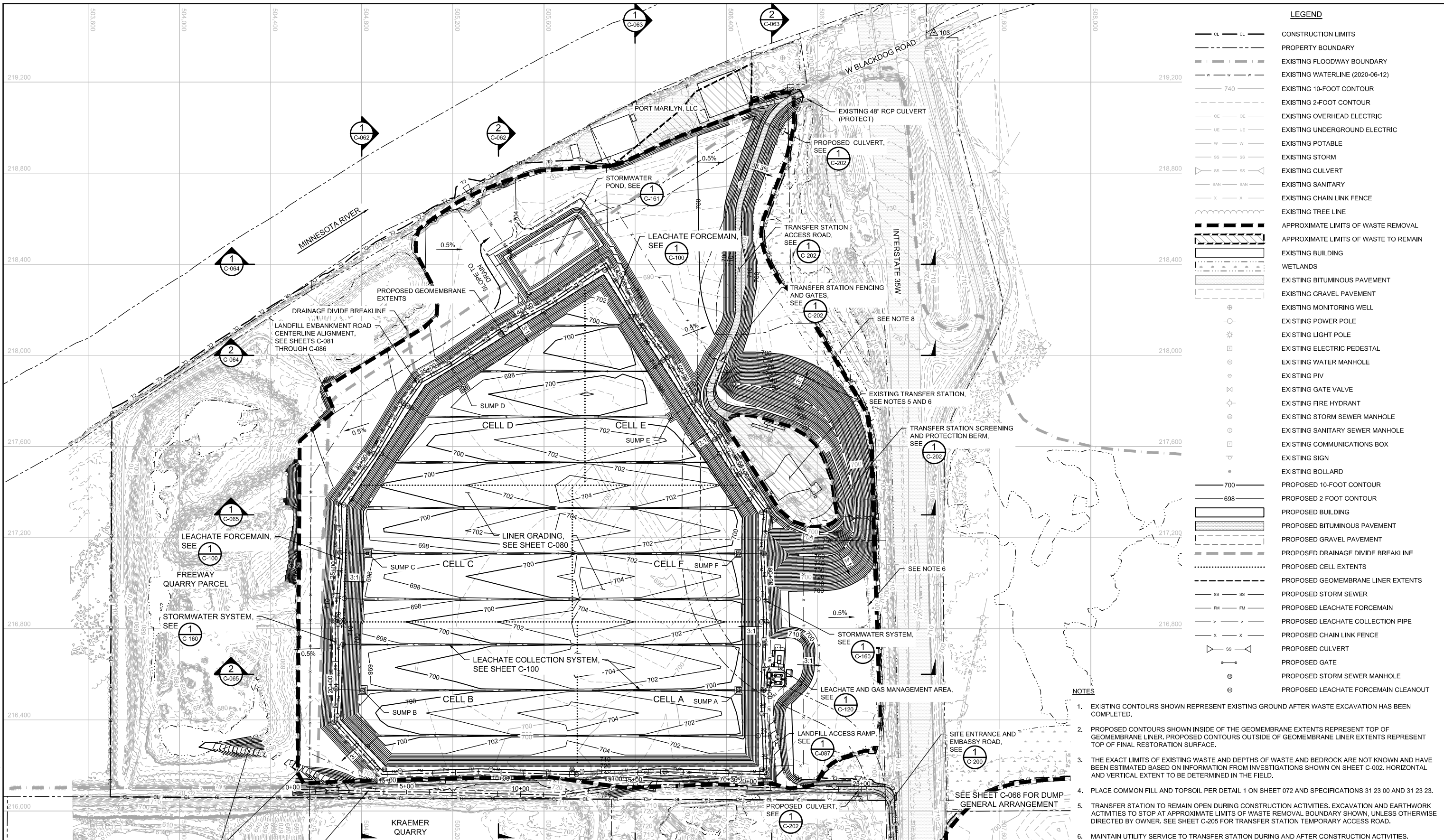
- NOTES:**
- THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEETS C-002 AND C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  - STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
  - EXCAVATE AND CONSOLIDATE WASTE, SEE SPECIFICATION 31 23 16.
  - EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION OR TO ACHIEVE LINER SUBGRADE, SEE SPECIFICATION 31 23 00.
  - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
  - MAINTAIN 20' (MIN.) BENCH NEAR RIVER. COORDINATE WITH ENGINEER PRIOR TO ANY POTENTIAL EXCAVATION WITHIN THE 20' BENCH.
  - EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT PORT MARILYN LLC PROPERTY ADJACENT TO BUILDINGS AND INFRASTRUCTURE AND AT ALLSTATE SELF-STORAGE PROPERTY BOUNDARIES, UNLESS OTHERWISE DIRECTED BY OWNER.
  - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER, SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
  - MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.
  - EXCAVATE WASTE AND SOIL AT SAFE SLOPES IN ACCORDANCE WITH OSHA. CONTRACTOR SHALL PROVIDE DESIGN FOR EXCAVATION DEEPER THAN 20'.
  - PROTECT ALL STRUCTURES, UTILITIES, AND OTHER FEATURES UNLESS OTHERWISE NOTED OR AS DIRECTED BY OWNER.

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NOT FOR CONSTRUCTION  
06/30/2022

CADD USER: Andrea W. Talkner; FILE: M:\DESIGN\2019\1372\06\23\19137205_LINE_C-052.DWG; PLOT SCALE: 1:2; PLOT DATE: 6/28/2022 9:48 AM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE #: _____		CLIENT: BARR ENGINEERING CO. PROJECT: CONSTRUCTION RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED: 06/30/2022	<b>BARR</b> Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	Scale: AS SHOWN Date: 9/22/2020 Drawn: ADB2 Checked: BDP Designed: BARR Approved: -	<b>MINNESOTA POLLUTION CONTROL AGENCY</b>	FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA TYPICAL EXCAVATION SECTIONS	BARR PROJECT No. 23/19-1372.00 CLIENT PROJECT No. _____ DWG. No. C-052 REV. No. B
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**LEGEND**

— CL — CL —	CONSTRUCTION LIMITS
---	PROPERTY BOUNDARY
---	EXISTING FLOODWAY BOUNDARY
— W — W — W —	EXISTING WATERLINE (2020-06-12)
— 740 —	EXISTING 10-FOOT CONTOUR
---	EXISTING 2-FOOT CONTOUR
— OE — OE —	EXISTING OVERHEAD ELECTRIC
— UE — UE —	EXISTING UNDERGROUND ELECTRIC
— W — W —	EXISTING POTABLE
— SS — SS —	EXISTING STORM
— SS — SS —	EXISTING CULVERT
— SAN — SAN —	EXISTING SANITARY
— X — X —	EXISTING CHAIN LINK FENCE
---	EXISTING TREE LINE
---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	EXISTING BUILDING
---	WETLANDS
---	EXISTING BITUMINOUS PAVEMENT
---	EXISTING GRAVEL PAVEMENT
⊕	EXISTING MONITORING WELL
⊙	EXISTING POWER POLE
⊙	EXISTING LIGHT POLE
⊙	EXISTING ELECTRIC PEDESTAL
⊙	EXISTING WATER MANHOLE
⊙	EXISTING PIV
⊙	EXISTING GATE VALVE
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING STORM SEWER MANHOLE
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING COMMUNICATIONS BOX
⊙	EXISTING SIGN
⊙	EXISTING BOLLARD
---	EXISTING 10-FOOT CONTOUR
---	PROPOSED 2-FOOT CONTOUR
---	PROPOSED BUILDING
---	PROPOSED BITUMINOUS PAVEMENT
---	PROPOSED GRAVEL PAVEMENT
---	PROPOSED DRAINAGE DIVIDE BREAKLINE
---	PROPOSED CELL EXTENTS
---	PROPOSED GEOMEMBRANE LINER EXTENTS
— SS — SS —	PROPOSED STORM SEWER
— FM — FM —	PROPOSED LEACHATE FORCEMAIN
---	PROPOSED LEACHATE COLLECTION PIPE
— X — X —	PROPOSED CHAIN LINK FENCE
---	PROPOSED CULVERT
⊙	PROPOSED GATE
⊙	PROPOSED STORM SEWER MANHOLE
⊙	PROPOSED LEACHATE FORCEMAIN CLEANOUT

- NOTES**
- EXISTING CONTOURS SHOWN REPRESENT EXISTING GROUND AFTER WASTE EXCAVATION HAS BEEN COMPLETED.
  - PROPOSED CONTOURS SHOWN INSIDE OF THE GEOMEMBRANE EXTENTS REPRESENT TOP OF GEOMEMBRANE LINER. PROPOSED CONTOURS OUTSIDE OF GEOMEMBRANE LINER EXTENTS REPRESENT TOP OF FINAL RESTORATION SURFACE.
  - THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  - PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET 072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
  - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
  - MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY. SEE SHEET C-071 FOR ADDITIONAL INFORMATION.
  - FOR ELECTRICAL AND COMMUNICATION UTILITIES, SEE ELECTRICAL SHEETS.

**1 PLAN: LANDFILL LINER GENERAL ARRANGEMENT**

SCALE IN FEET

0 200 400

8. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021

**100% DRAFT**  
**NOT FOR CONSTRUCTION**  
06/30/2022

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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: _____  
SIGNATURE: _____  
DATE: _____ LICENSE # _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
6/30/2021	6/30/2021		A B C 0 1 2 3	

**BARR** ENGINEERING CO.  
4300 MARKETPOINTE DRIVE  
SUITE 200  
MINNEAPOLIS, MN 55435

Project Office:  
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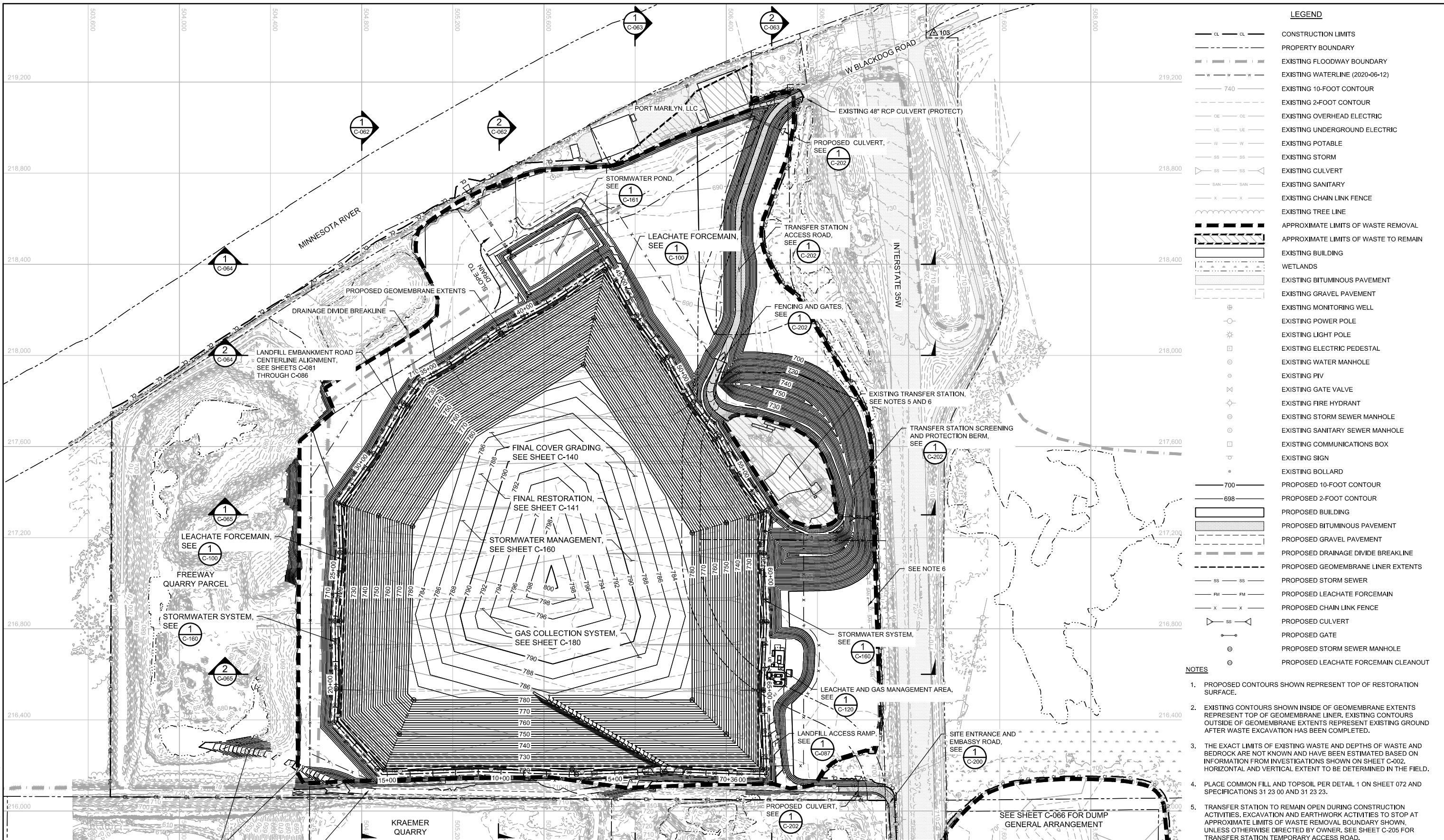
Scale	AS SHOWN
Date	01/20/2020
Drawn	TJK
Checked	BDP
Designed	BARR
Approved	



**FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE**  
**BURNSVILLE, MINNESOTA**

**LANDFILL LINER GENERAL ARRANGEMENT**  
**PLAN**

BARR PROJECT No.	2319-1372.00
CLIENT PROJECT No.	
DWG. No.	C-060
REV. No.	B



**LEGEND**

- CL --- CL --- CONSTRUCTION LIMITS
- P --- P --- PROPERTY BOUNDARY
- EFB --- EFB --- EXISTING FLOODWAY BOUNDARY
- W --- W --- EXISTING WATERLINE (2020-06-12)
- 740 --- 740 --- EXISTING 10-FOOT CONTOUR
- 740 --- 740 --- EXISTING 2-FOOT CONTOUR
- OE --- OE --- EXISTING OVERHEAD ELECTRIC
- UE --- UE --- EXISTING UNDERGROUND ELECTRIC
- W --- W --- EXISTING POTABLE
- SS --- SS --- EXISTING STORM
- SS --- SS --- EXISTING CULVERT
- SAN --- SAN --- EXISTING SANITARY
- X --- X --- EXISTING CHAIN LINK FENCE
- --- --- EXISTING TREE LINE
- --- --- APPROXIMATE LIMITS OF WASTE REMOVAL
- --- --- APPROXIMATE LIMITS OF WASTE TO REMAIN
- --- --- EXISTING BUILDING
- --- --- WETLANDS
- --- --- EXISTING BITUMINOUS PAVEMENT
- --- --- EXISTING GRAVEL PAVEMENT
- ⊕ --- ⊕ --- EXISTING MONITORING WELL
- ⊙ --- ⊙ --- EXISTING POWER POLE
- ⊛ --- ⊛ --- EXISTING LIGHT POLE
- ⊠ --- ⊠ --- EXISTING ELECTRIC PEDESTAL
- ⊗ --- ⊗ --- EXISTING WATER MANHOLE
- ⊘ --- ⊘ --- EXISTING PIV
- ⊚ --- ⊚ --- EXISTING GATE VALVE
- ⊛ --- ⊛ --- EXISTING FIRE HYDRANT
- ⊗ --- ⊗ --- EXISTING STORM SEWER MANHOLE
- ⊘ --- ⊘ --- EXISTING SANITARY SEWER MANHOLE
- ⊠ --- ⊠ --- EXISTING COMMUNICATIONS BOX
- ⊙ --- ⊙ --- EXISTING SIGN
- ⊛ --- ⊛ --- EXISTING BOLLARD
- 700 --- 700 --- PROPOSED 10-FOOT CONTOUR
- 698 --- 698 --- PROPOSED 2-FOOT CONTOUR
- --- --- PROPOSED BUILDING
- --- --- PROPOSED BITUMINOUS PAVEMENT
- --- --- PROPOSED GRAVEL PAVEMENT
- --- --- PROPOSED DRAINAGE DIVIDE BREAKLINE
- SS --- SS --- PROPOSED STORM SEWER
- FM --- FM --- PROPOSED LEACHATE FORCEMAIN
- X --- X --- PROPOSED CHAIN LINK FENCE
- --- --- PROPOSED CULVERT
- --- --- PROPOSED GATE
- ⊕ --- ⊕ --- PROPOSED STORM SEWER MANHOLE
- ⊙ --- ⊙ --- PROPOSED LEACHATE FORCEMAIN CLEANOUT

- NOTES**
- PROPOSED CONTOURS SHOWN REPRESENT TOP OF RESTORATION SURFACE.
  - EXISTING CONTOURS SHOWN INSIDE OF GEOMEMBRANE EXTENTS REPRESENT TOP OF GEOMEMBRANE LINER, EXISTING CONTOURS OUTSIDE OF GEOMEMBRANE EXTENTS REPRESENT EXISTING GROUND AFTER WASTE EXCAVATION HAS BEEN COMPLETED.
  - THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  - PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET 072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
  - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
  - FOR ELECTRICAL AND COMMUNICATION UTILITIES, SEE ELECTRICAL SHEETS.
  - MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY, SEE SHEET C-071 FOR ADDITIONAL INFORMATION.

**1 PLAN: LANDFILL COVER GENERAL ARRANGEMENT**

0 200 400  
SCALE IN FEET

100% DRAFT  
NOT FOR CONSTRUCTION  
06/30/2022

CADD USER: Andrea W. Tokkimer; FILE: M:\DESIGN\23191372\062319137205_LINE_C-061.DWG; PLOT SCALE: 1:2; PLOT DATE: 6/30/2022 3:36 PM  
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: _____  
SIGNATURE: _____  
DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
6/30/2021	6/30/2021		A B C 0 1 2 3	

**BARR** ENGINEERING CO.  
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Minneapolis, Minnesota  
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www.barr.com

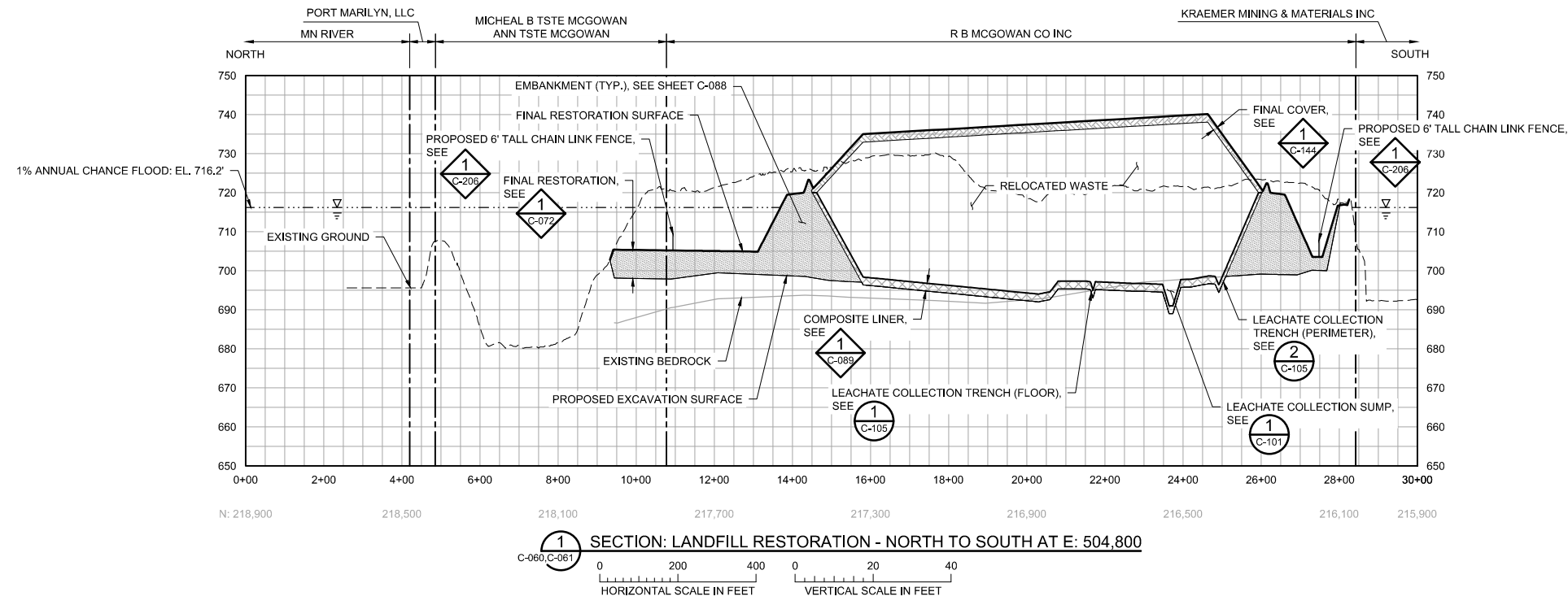
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Date	01/20/2020
Drawn	TJK
Checked	BDP
Designed	BARR
Approved	

**MINNESOTA POLLUTION CONTROL AGENCY**

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

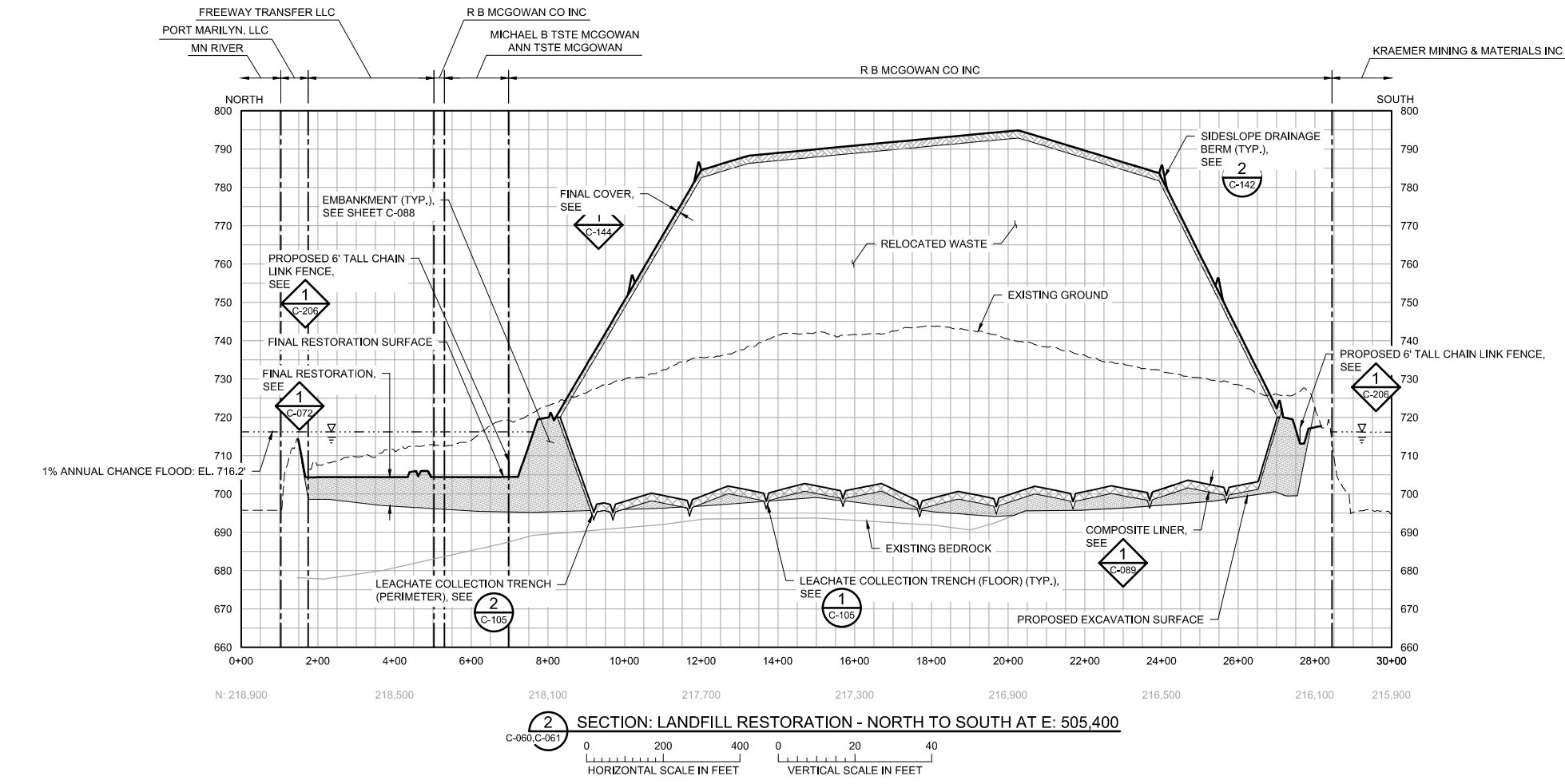
LANDFILL COVER GENERAL ARRANGEMENT  
PLAN

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-061
REV. No.	B



**LEGEND**

- EXISTING PROPERTY LINE
- - - EXISTING GROUND
- ..... EXISTING BEDROCK
- - - - 1% ANNUAL CHANCE FLOOD: EL. 716.2'
- PROPOSED RESTORATION SURFACE
- PROPOSED EXCAVATION SURFACE
- PROPOSED GEOMEMBRANE LINER
- ▨ PROPOSED COMMON FILL
- ▨ PROPOSED COVER
- ▨ PROPOSED LINER
- ▨ EXISTING WASTE TO REMAIN

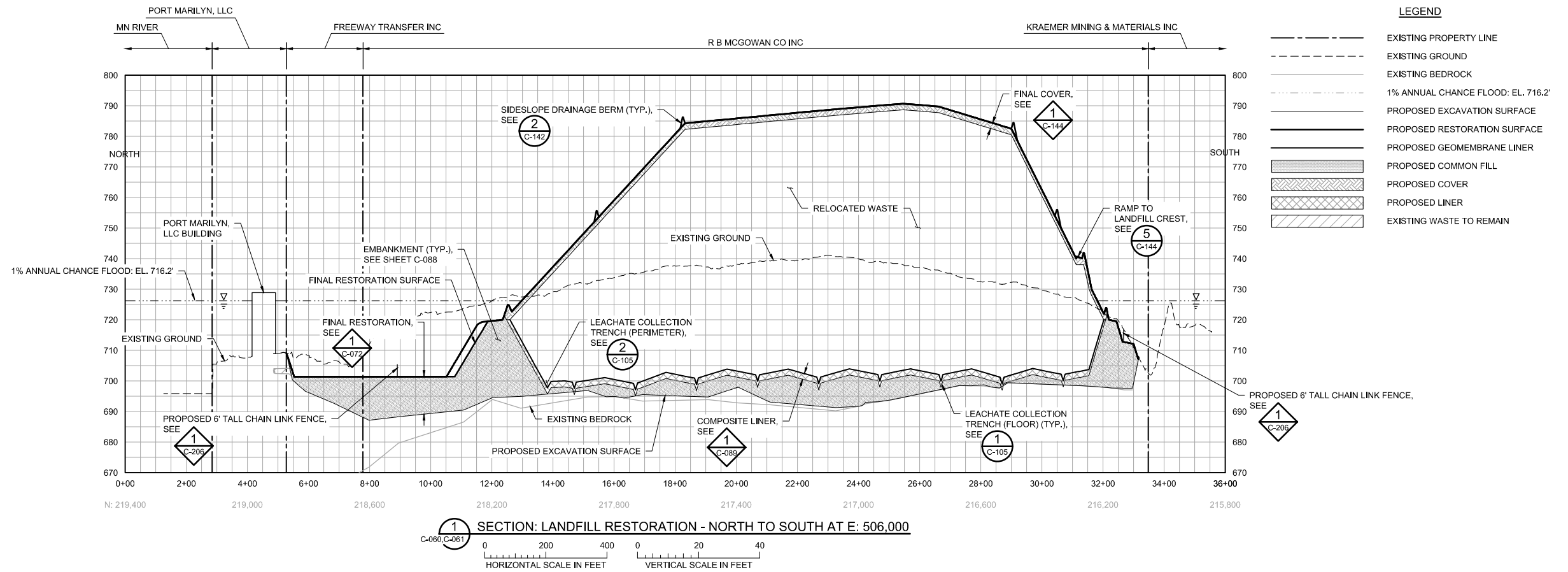


- NOTES**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
  4. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
  5. MAINTAIN 20' MIN. BENCH NEAR RIVER, COORDINATE WITH ENGINEER PRIOR TO ANY POTENTIAL EXCAVATION WITHIN THE 20' BENCH.
  6. EXCAVATE COMMON EXCAVATION FOR REUSE, SEE SPECIFICATION 31 23 00.

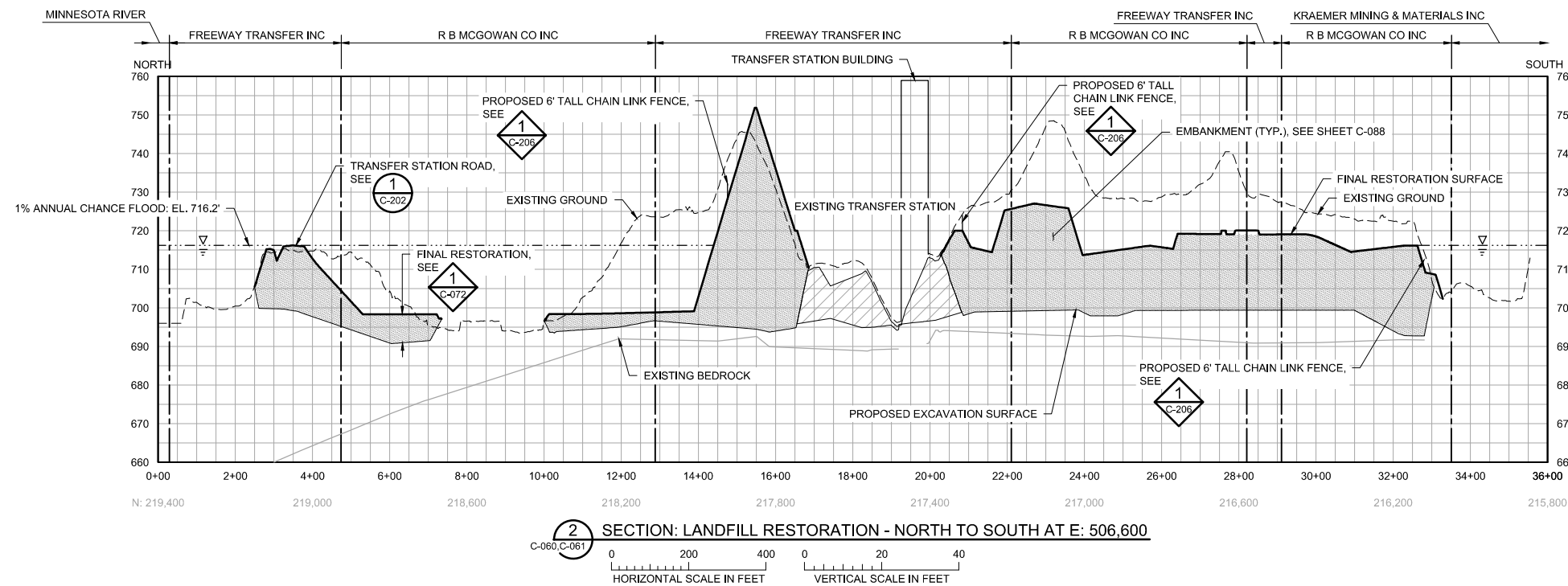
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				PRINTED NAME SIGNATURE DATE LICENSE #		RELEASED TO/FOR A B C 0 1 2 3				DATE RELEASED		MINNESOTA POLLUTION CONTROL AGENCY		LANDFILL RESTORATION NORTH-SOUTH SECTIONS 1 OF 2	



SECTION: LANDFILL RESTORATION - NORTH TO SOUTH AT E: 506,000  
 HORIZONTAL SCALE IN FEET: 0, 200, 400  
 VERTICAL SCALE IN FEET: 0, 20, 40



SECTION: LANDFILL RESTORATION - NORTH TO SOUTH AT E: 506,600  
 HORIZONTAL SCALE IN FEET: 0, 200, 400  
 VERTICAL SCALE IN FEET: 0, 20, 40

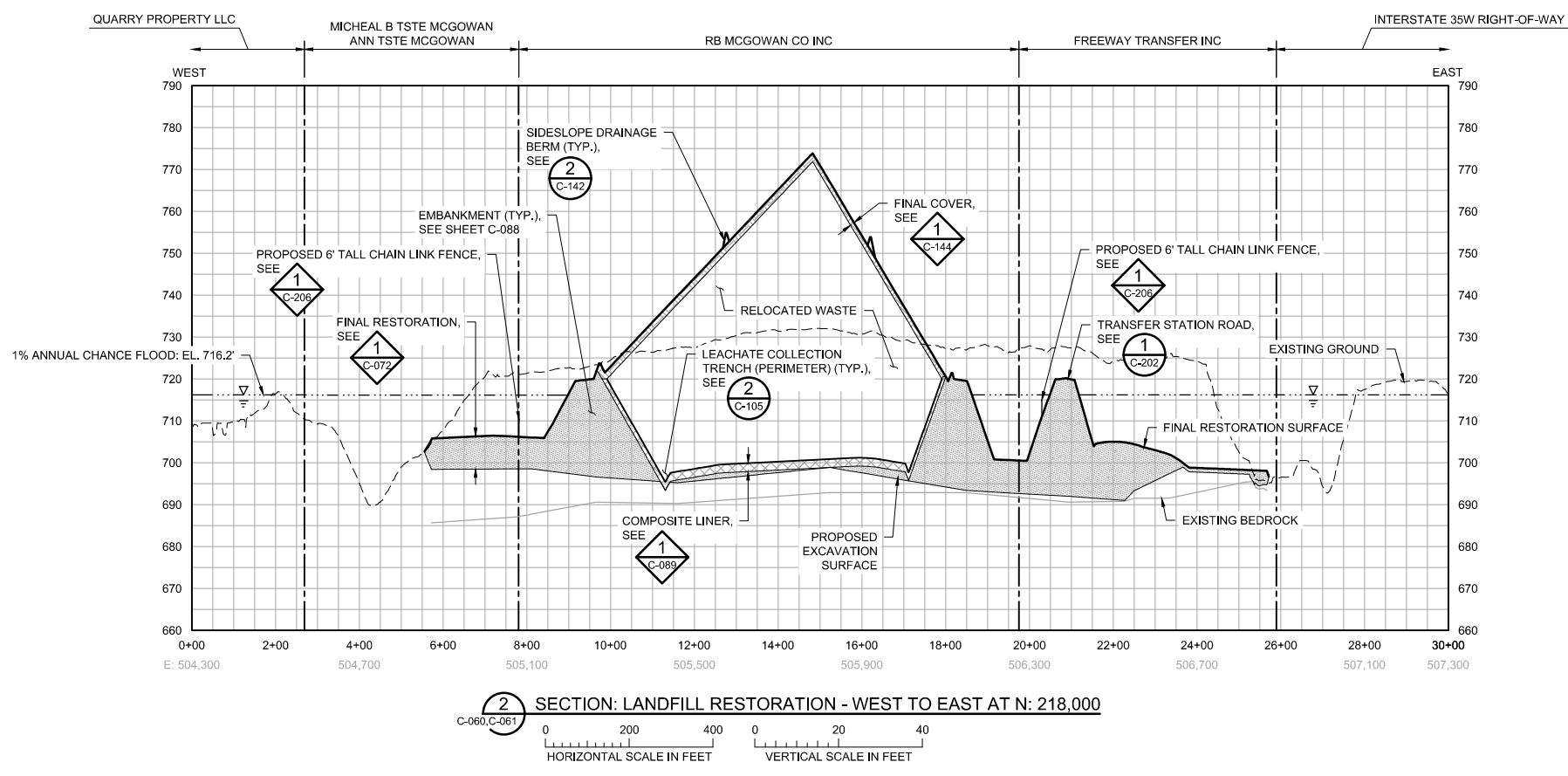
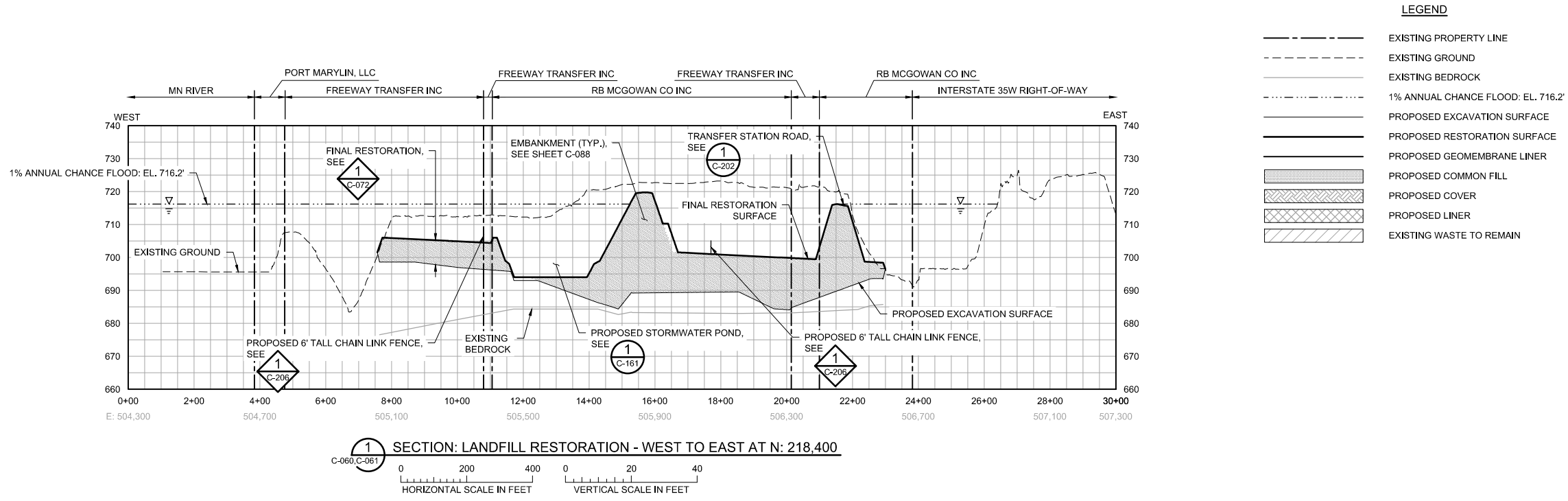
- NOTES**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
  4. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
  5. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
  6. EARTHWORK ACTIVITIES TO STOP AT PORT MARILYN, LLC PROPERTY ADJACENT TO BUILDINGS AND INFRASTRUCTURE, UNLESS OTHERWISE DIRECTED BY OWNER.
  7. TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER, SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
  8. MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY. SEE SHEET C-071 FOR ADDITIONAL INFORMATION.

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 NOT FOR CONSTRUCTION  
 06/30/2022

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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	RELEASED TO/FOR	A	B	C	0	1	2	3	DATE RELEASED	PRINTED NAME	SIGNATURE	DATE	LICENSE #									

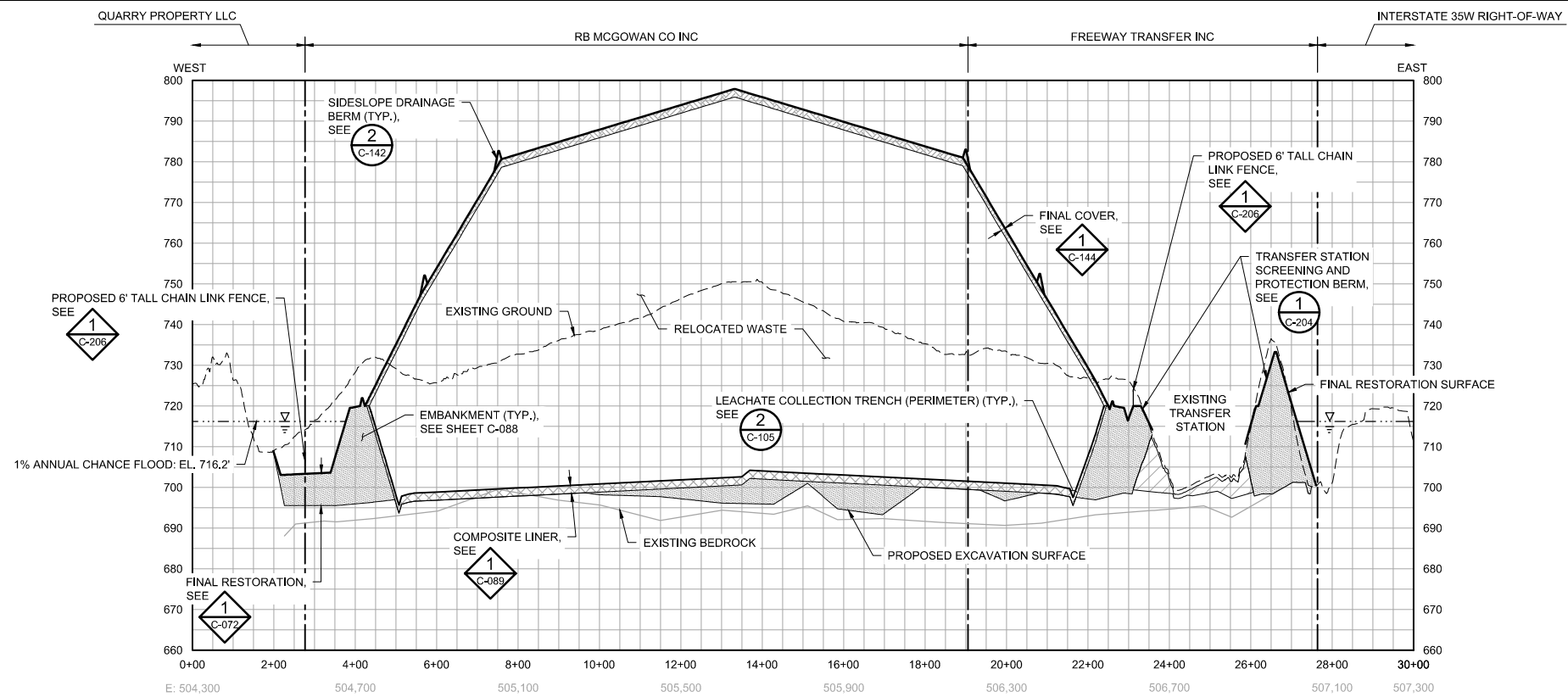
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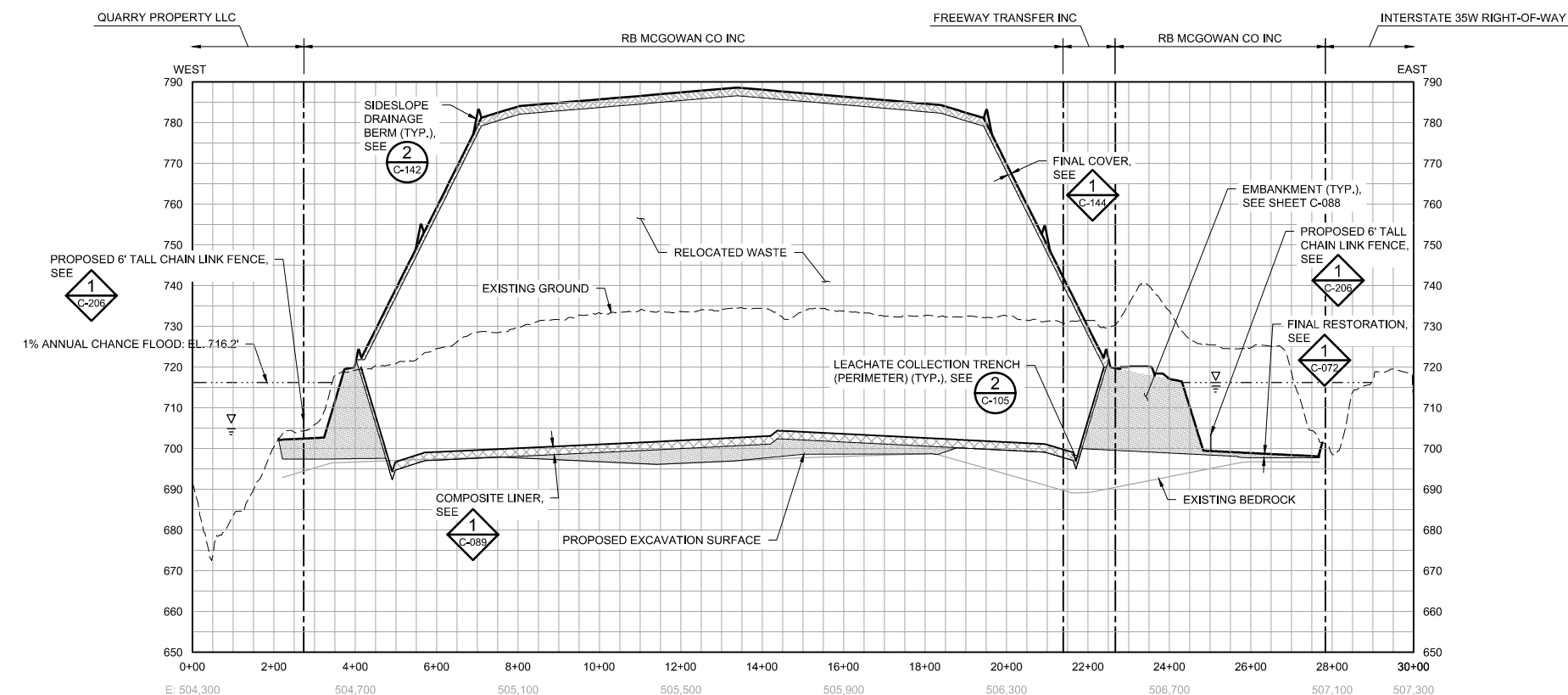
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 NOT FOR CONSTRUCTION  
 06/30/2022

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SECTION: LANDFILL RESTORATION - WEST TO EAST AT N: 217,300  
 HORIZONTAL SCALE IN FEET: 0, 200, 400  
 VERTICAL SCALE IN FEET: 0, 20, 40



SECTION: LANDFILL RESTORATION - WEST TO EAST AT N: 216,600  
 HORIZONTAL SCALE IN FEET: 0, 200, 400  
 VERTICAL SCALE IN FEET: 0, 20, 40

- NOTES**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
  4. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
  5. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
  6. TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
  7. MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY. SEE SHEET C-071 FOR ADDITIONAL INFORMATION.

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CADD USER: Andrea W. Talkner; FILE: M:\DESIGN\2019\1372\06\2019137205_LINE_C-065.DWG; PLOT SCALE: 1:2; PLOT DATE: 6/28/2022 10:11 AM  
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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 SIGNATURE: _____  
 DATE: _____ LICENSE # _____

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BID									
CONSTRUCTION									
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DATE RELEASED									

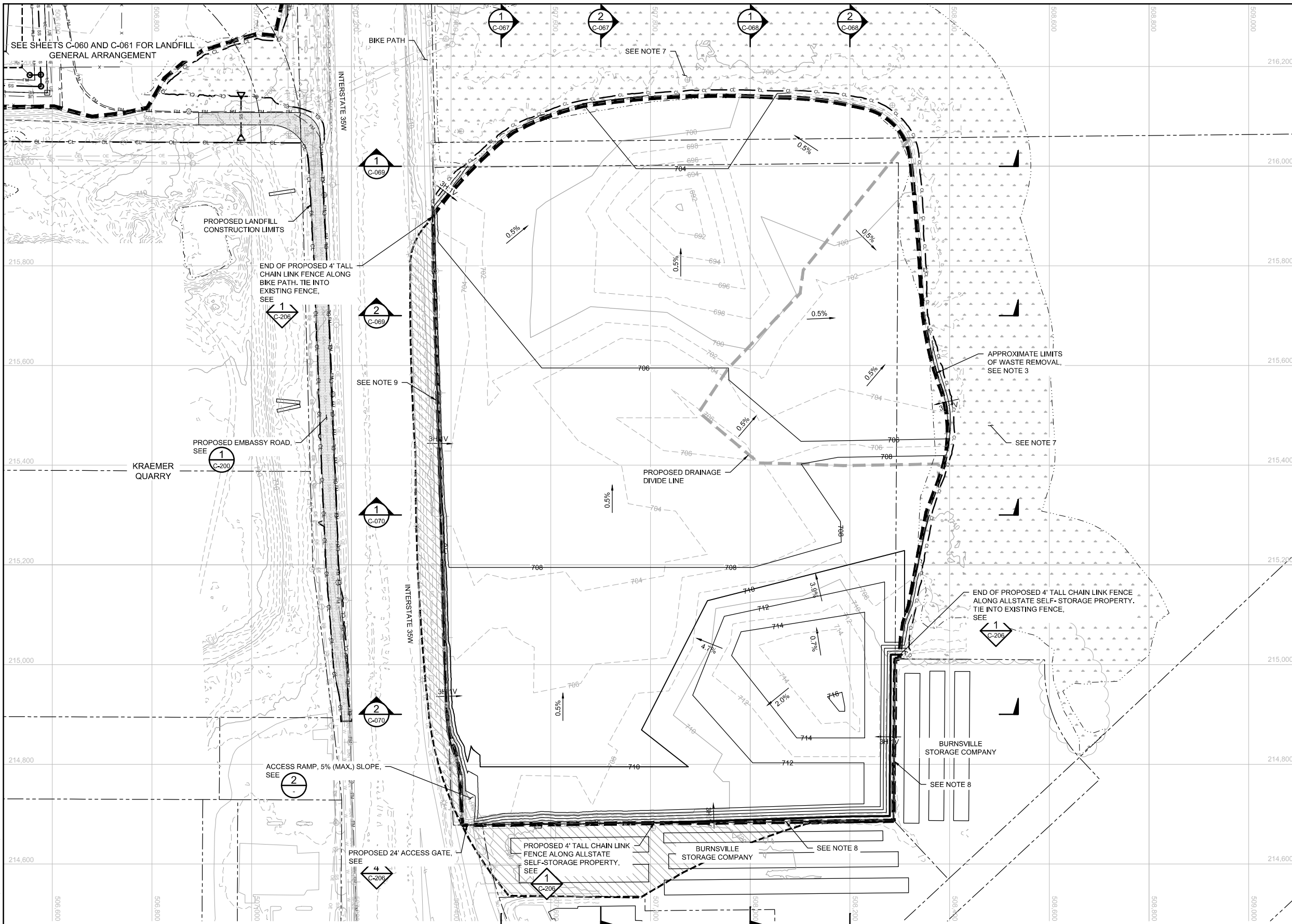
**BARR** ENGINEERING CO.  
 4300 MARKETPOINTE DRIVE  
 SUITE 200  
 MINNEAPOLIS, MN 55435  
 Ph: 1-800-632-2277  
 Fax: (952) 832-2601  
 www.barr.com

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Date	01/23/2020
Drawn	ZJN
Checked	BDP
Designed	BARR
Approved	



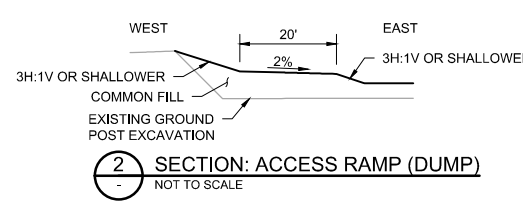
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA  
 LANDFILL RESTORATION  
 WEST-EAST SECTIONS 2 OF 2

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-065
REV. No.	B



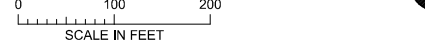
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CL	CL	CONSTRUCTION LIMITS
---	---	PROPERTY BOUNDARY
---	---	EXISTING WATERLINE (2020-06-12)
---	---	EXISTING 10-FOOT CONTOUR
---	---	EXISTING 2-FOOT CONTOUR
OE	OE	EXISTING OVERHEAD ELECTRIC
UE	UE	EXISTING UNDERGROUND ELECTRIC
T	T	EXISTING TELEPHONE LINE
FO	FO	EXISTING FIBER OPTIC
W	W	EXISTING POTABLE
SS	SS	EXISTING STORM
SAN	SAN	EXISTING SANITARY
X	X	EXISTING CHAIN LINK FENCE
---	---	EXISTING TREE LINE
---	---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	---	EXISTING BUILDING
---	---	WETLANDS
---	---	EXISTING BITUMINOUS PAVEMENT
---	---	EXISTING GRAVEL PAVEMENT
⊕	⊕	EXISTING MONITORING WELL
⊙	⊙	EXISTING POWER POLE
⊙	⊙	EXISTING LIGHT POLE
⊙	⊙	EXISTING WATER MANHOLE
⊙	⊙	EXISTING GATE VALVE
⊙	⊙	EXISTING STORM SEWER MANHOLE
⊙	⊙	EXISTING SANITARY SEWER MANHOLE
---	---	PROPOSED 10-FOOT CONTOUR
---	---	PROPOSED 2-FOOT CONTOUR
---	---	PROPOSED BITUMINOUS PAVEMENT
---	---	PROPOSED GRAVEL PAVEMENT
---	---	PROPOSED DRAINAGE DIVIDE LINE
---	---	PROPOSED CHAIN LINK FENCE
SS	SS	PROPOSED CULVERT
---	---	PROPOSED GATE



- NOTES**
- EXISTING CONTOURS SHOWN REPRESENT EXISTING GROUND AFTER WASTE EXCAVATION HAS BEEN COMPLETED.
  - PROPOSED CONTOURS SHOWN REPRESENT TOP OF FINAL RESTORATION SURFACE.
  - THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  - PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
  - SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00. SEE SHEET C-023 FOR MORE INFORMATION.
  - PROVIDE FENCES AND GATES PER SPECIFICATION 32 31 00.
  - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
  - EARTHWORK ACTIVITIES TO STOP AT BURNSVILLE STORAGE PROPERTY BOUNDARY, UNLESS OTHERWISE DIRECTED BY OWNER.
  - MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.

1 PLAN: DUMP GENERAL ARRANGEMENT



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CADD USER: Anders W. Tolkmann FILE: M:\DESIGN\2019\137206\2019137206_LINE_C-066.DWG PLOT SCALE: 1:2 PLOT DATE: 6/28/2022 3:07 PM  
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CONSTRUCTION							
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DATE RELEASED							

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 4300 MARKETPOINTE DRIVE  
 SUITE 200  
 MINNEAPOLIS, MN 55435

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 Minneapolis, Minnesota  
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 www.barr.com

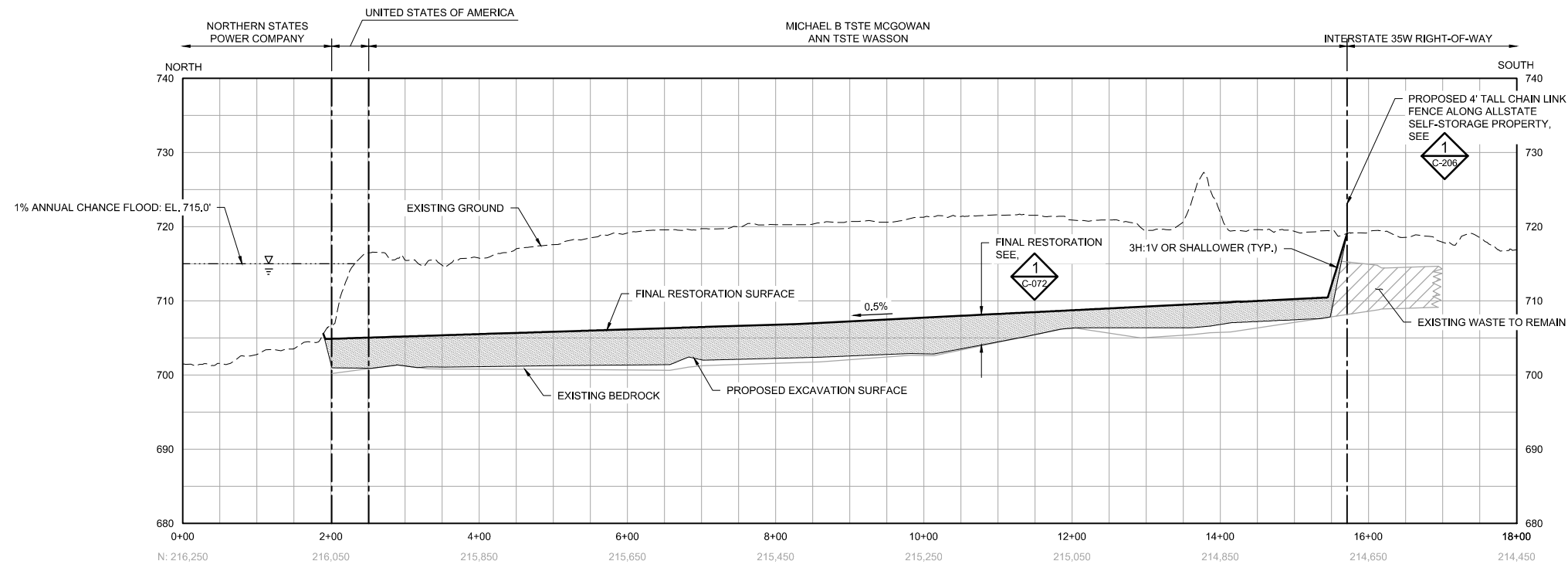
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Checked	BDP
Designed	BARR
Approved	-



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA

DUMP GENERAL ARRANGEMENT  
 PLAN

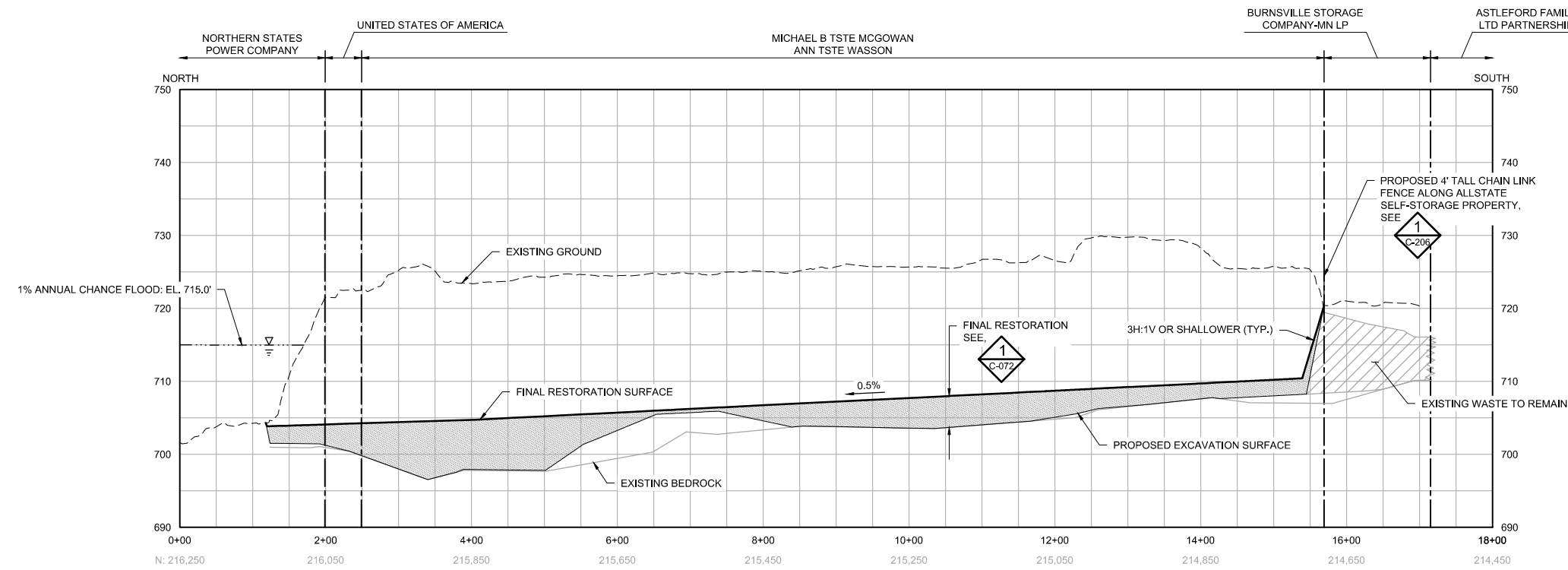
BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-066
REV. No.	B



**1 SECTION: DUMP RESTORATION- NORTH TO SOUTH AT E: 507,500**  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20

**LEGEND**

---	EXISTING PROPERTY LINE
- - - -	EXISTING GROUND
---	EXISTING BEDROCK
- · - · - ·	1% ANNUAL CHANCE FLOOD: EL. 715.0'
---	PROPOSED EXCAVATION SURFACE
---	PROPOSED RESTORATION SURFACE
█	PROPOSED COMMON FILL
▨	EXISTING WASTE TO REMAIN



**2 SECTION: DUMP RESTORATION - NORTH TO SOUTH AT E: 507,700**  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20

- NOTES**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
  4. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
  5. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
  6. EARTHWORK ACTIVITIES TO STOP AT BURNSVILLE STORAGE COMPANY PROPERTY BOUNDARY, UNLESS OTHERWISE DIRECTED BY OWNER.
  7. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.

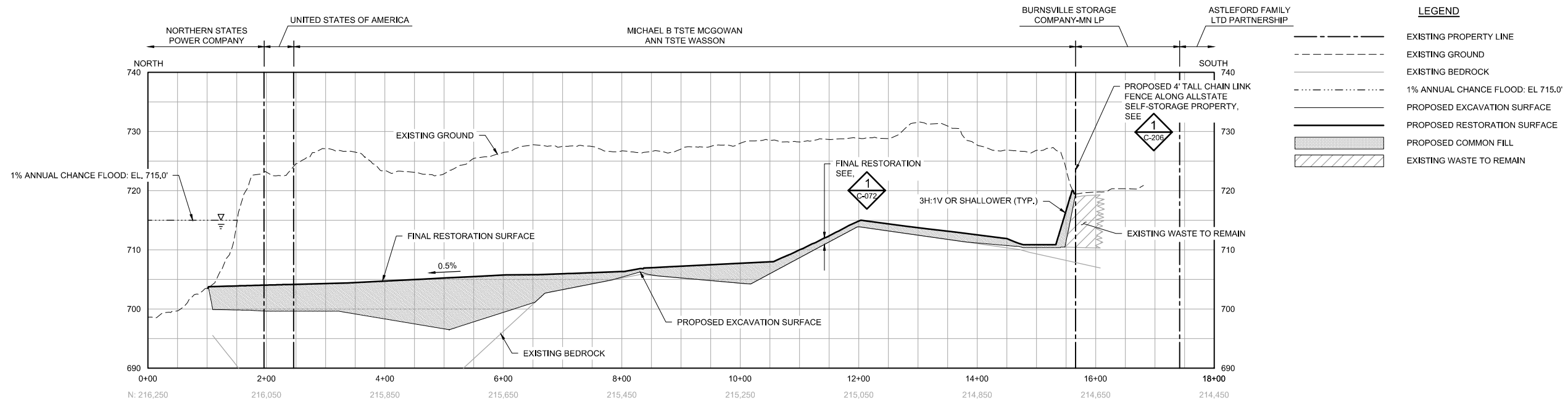
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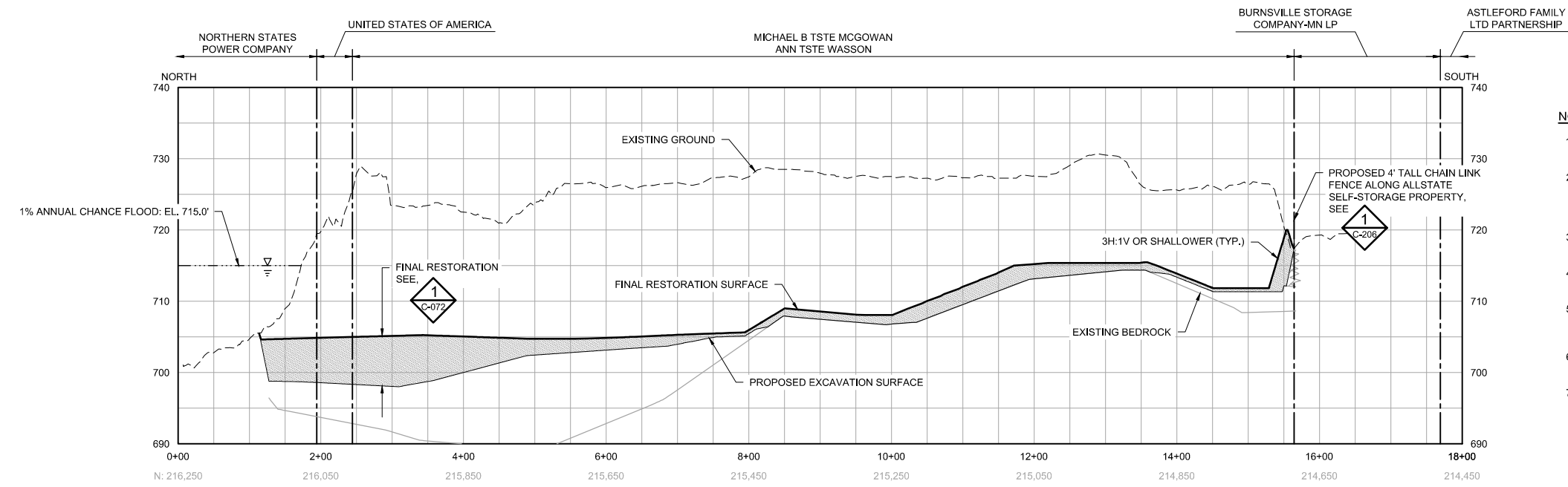




**1 SECTION: DUMP RESTORATION - NORTH TO SOUTH AT E: 508,000**  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20

**LEGEND**

---	EXISTING PROPERTY LINE
- - - -	EXISTING GROUND
.....	EXISTING BEDROCK
-----	1% ANNUAL CHANCE FLOOD: EL. 715.0'
---	PROPOSED EXCAVATION SURFACE
█	PROPOSED RESTORATION SURFACE
█	PROPOSED COMMON FILL
▨	EXISTING WASTE TO REMAIN



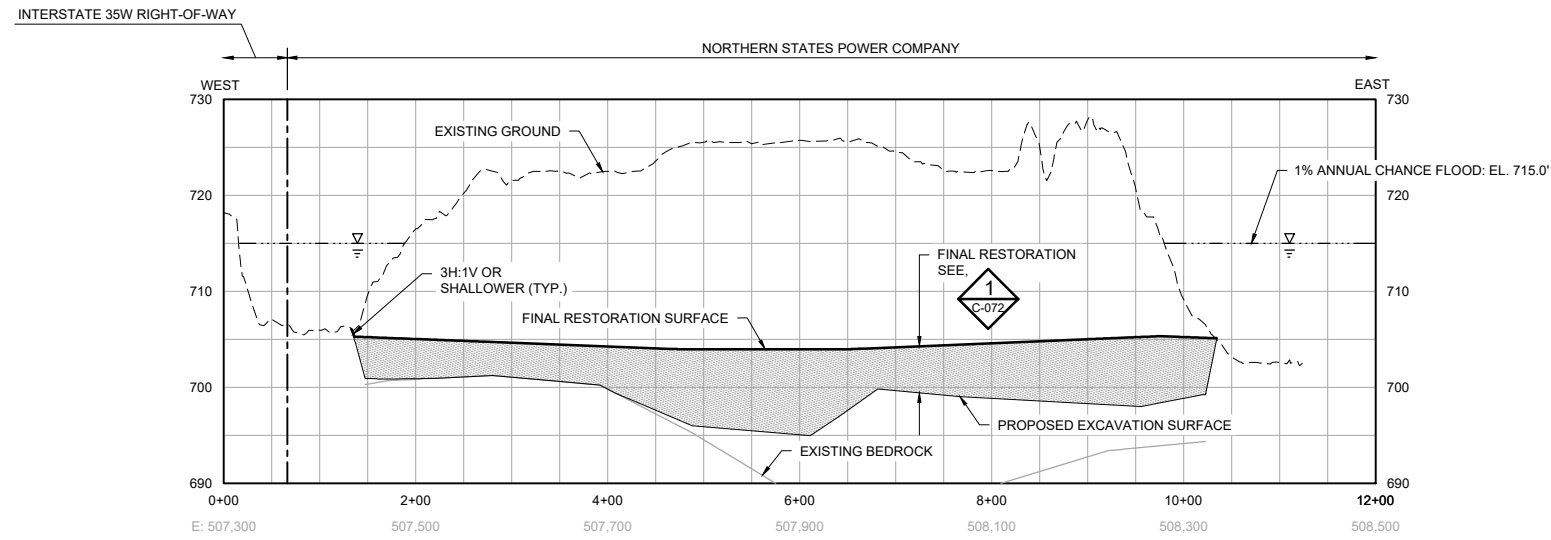
**2 SECTION: DUMP RESTORATION - NORTH TO SOUTH AT E: 508,200**  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20

- NOTES**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
  4. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
  5. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-023.
  6. EARTHWORK ACTIVITIES TO STOP AT BURNSVILLE STORAGE COMPANY PROPERTY BOUNDARY, UNLESS OTHERWISE DIRECTED BY OWNER.
  7. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.

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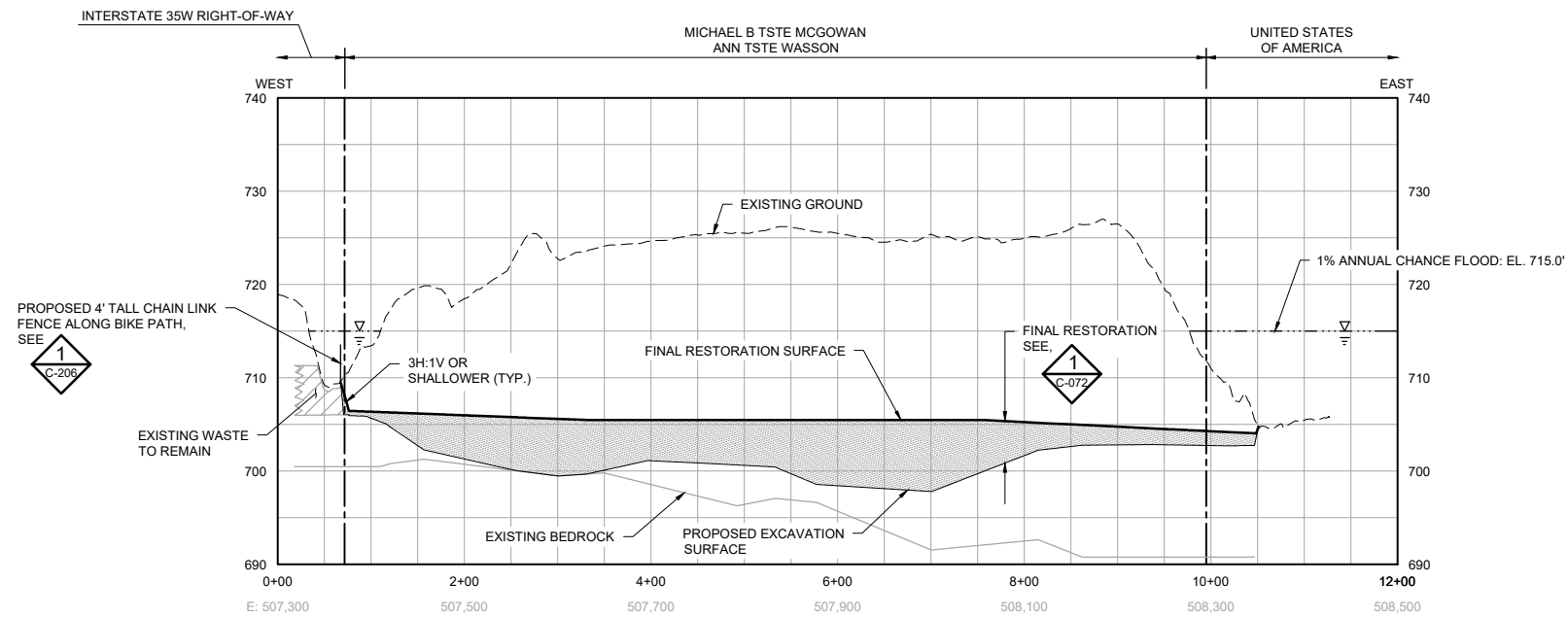
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**1** SECTION: DUMP RESTORATION - WEST TO EAST AT N: 216,100  
 C-066  
 0 100 200 0 10 20  
 HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET

**LEGEND**

---	EXISTING PROPERTY LINE
- - - -	EXISTING GROUND
—	EXISTING BEDROCK
.....	1% ANNUAL CHANCE FLOOD: EL. 715.0'
—	PROPOSED EXCAVATION SURFACE
—	PROPOSED RESTORATION SURFACE
▨	PROPOSED COMMON FILL
▨	EXISTING WASTE TO REMAIN



**2** SECTION: DUMP RESTORATION - WEST TO EAST AT N: 215,700  
 C-066  
 0 100 200 0 10 20  
 HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET

- NOTES**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
  2. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-006. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
  3. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATION 31 23 00 AND 31 23 23.
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  6. EARTHWORK ACTIVITIES TO STOP AT BURNSVILLE STORAGE COMPANY PROPERTY BOUNDARY, UNLESS OTHERWISE DIRECTED BY OWNER.
  7. MAINTAIN ACCESS TO BIKE PATH. BIKE PATH MAY NOT BE USED FOR CONSTRUCTION ACTIVITIES.

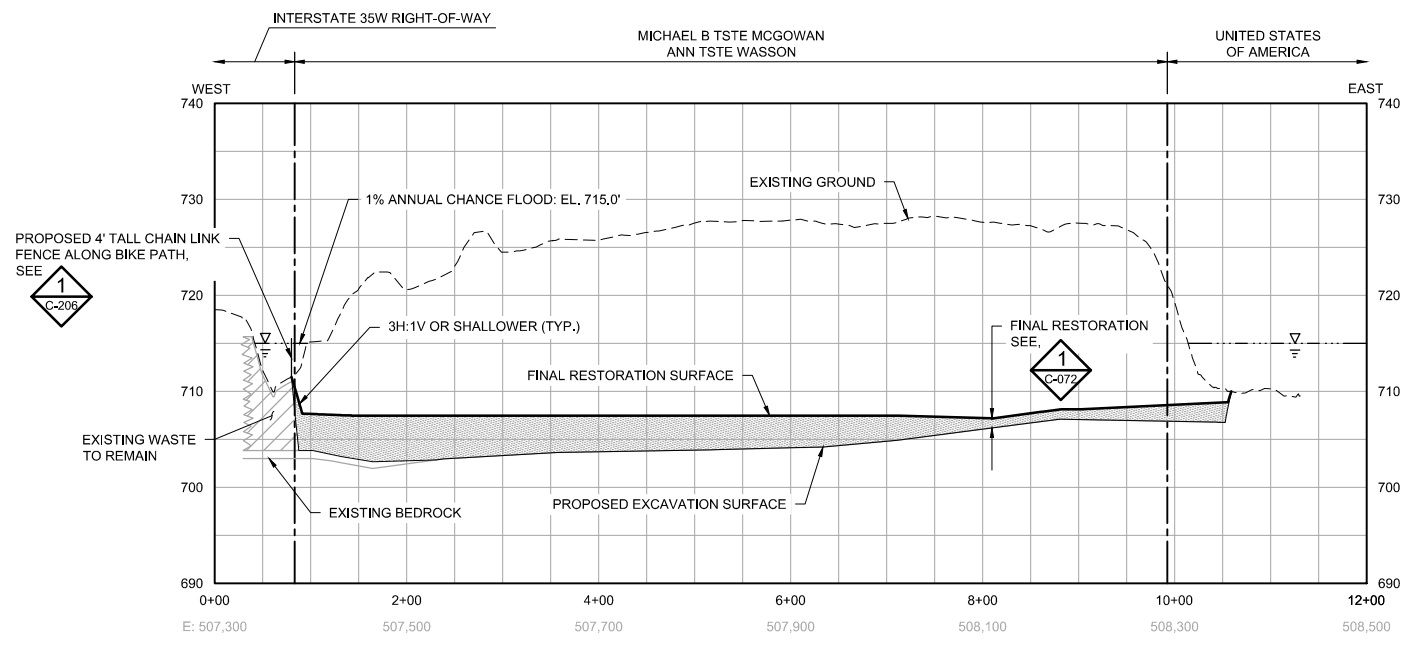
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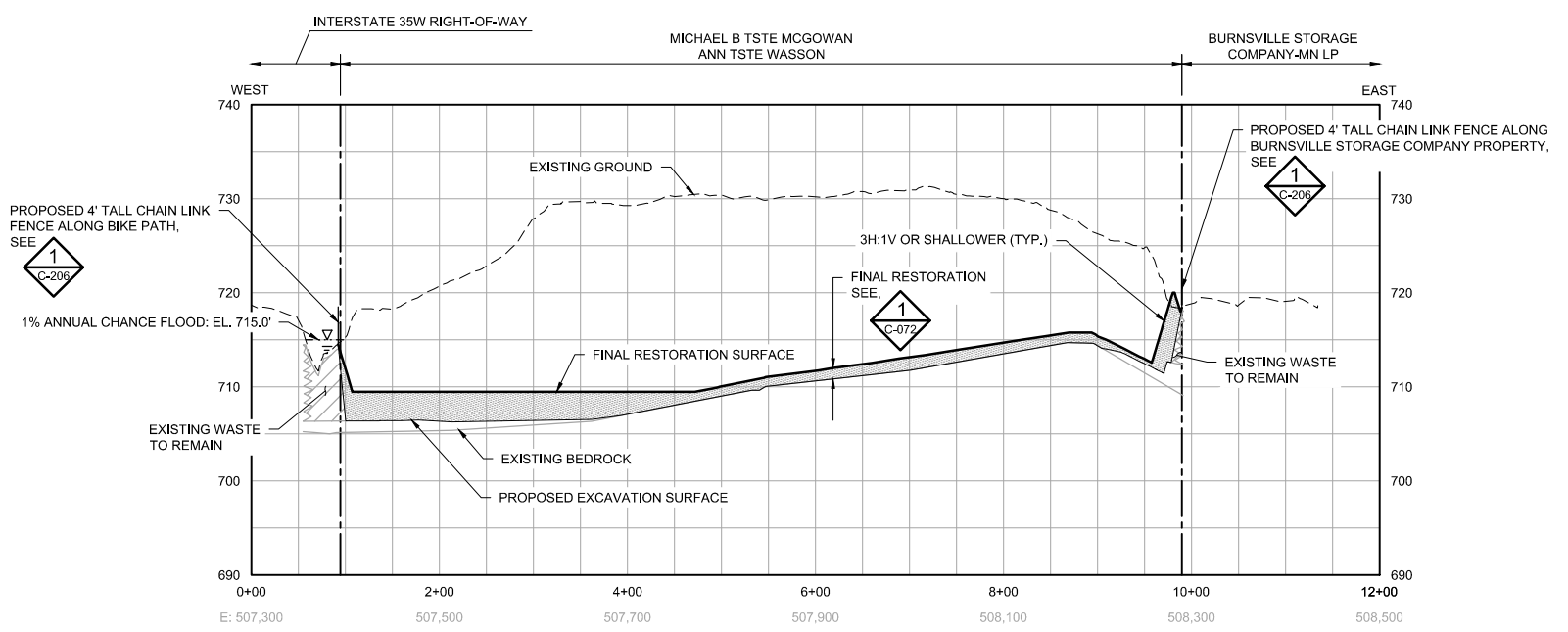
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**1** SECTION: DUMP RESTORATION - WEST TO EAST AT N: 215,300  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20



**2** SECTION: DUMP RESTORATION - WEST TO EAST AT N: 214,900  
 HORIZONTAL SCALE IN FEET: 0, 100, 200  
 VERTICAL SCALE IN FEET: 0, 10, 20

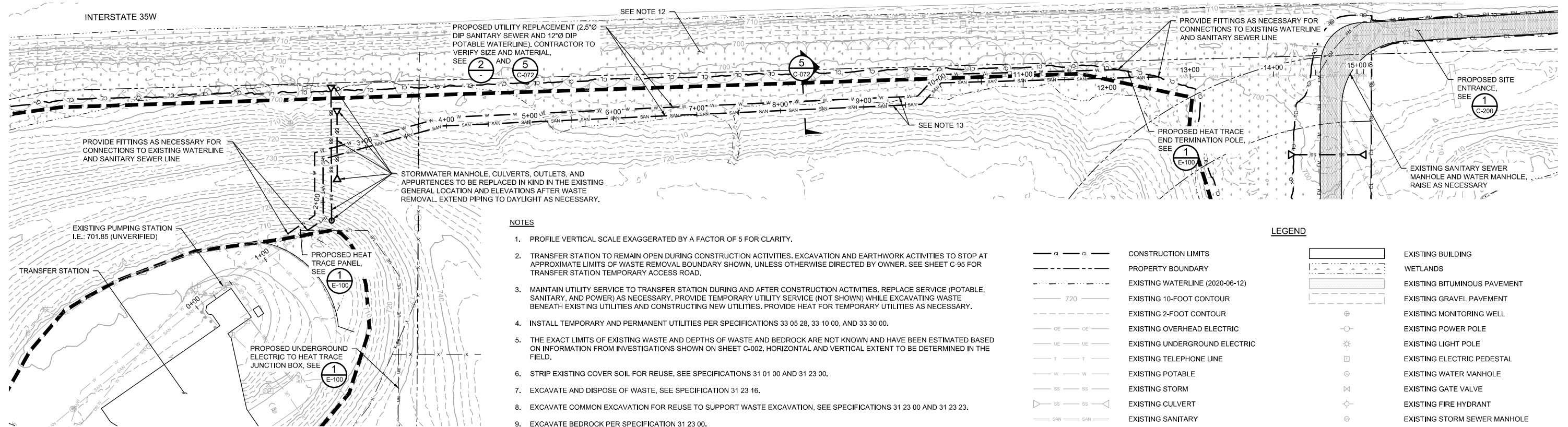
**LEGEND**

---	EXISTING PROPERTY LINE
- - - -	EXISTING GROUND
---	EXISTING BEDROCK
- · - · - ·	1% ANNUAL CHANCE FLOOD: EL. 715.0'
---	PROPOSED EXCAVATION SURFACE
---	PROPOSED RESTORATION SURFACE
█	PROPOSED COMMON FILL
█	EXISTING WASTE TO REMAIN

- NOTES**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
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 NOT FOR CONSTRUCTION  
 06/30/2022

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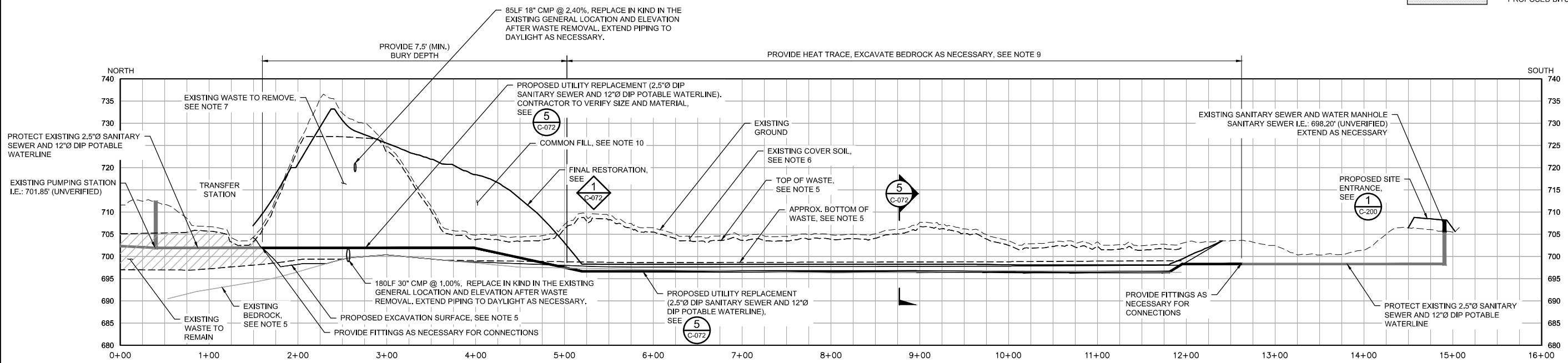
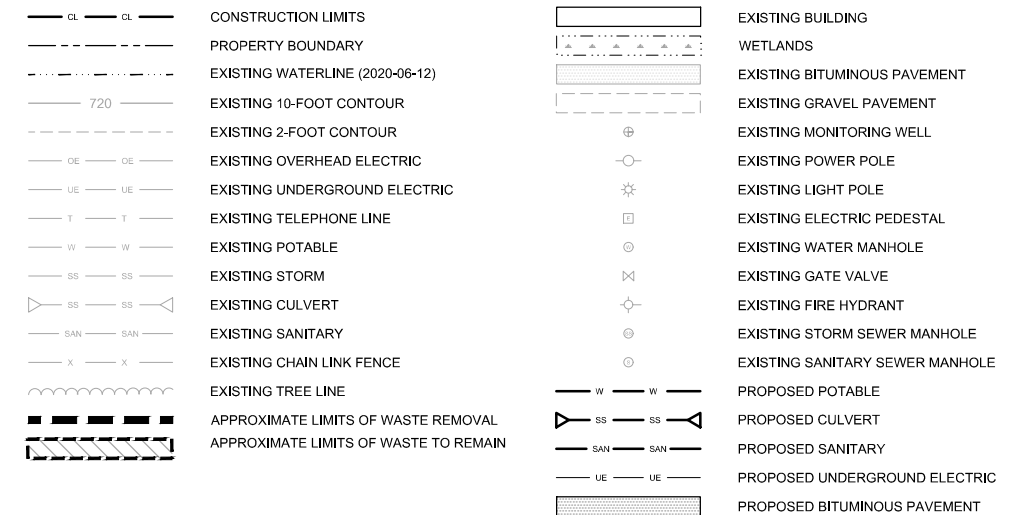


1 PLAN: UTILITY REPLACEMENT

0 60 120  
SCALE IN FEET

**NOTES**

- PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 5 FOR CLARITY.
- TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-95 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
- MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY. PROVIDE TEMPORARY UTILITY SERVICE (NOT SHOWN) WHILE EXCAVATING WASTE BENEATH EXISTING UTILITIES AND CONSTRUCTING NEW UTILITIES. PROVIDE HEAT FOR TEMPORARY UTILITIES AS NECESSARY.
- INSTALL TEMPORARY AND PERMANENT UTILITIES PER SPECIFICATIONS 33 05 28, 33 10 00, AND 33 30 00.
- THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENT TO BE DETERMINED IN THE FIELD.
- STRIP EXISTING COVER SOIL FOR REUSE, SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
- EXCAVATE AND DISPOSE OF WASTE, SEE SPECIFICATION 31 23 16.
- EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION, SEE SPECIFICATIONS 31 23 00 AND 31 23 23.
- EXCAVATE BEDROCK PER SPECIFICATION 31 23 00.
- PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
- SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
- PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
- INSTALL HEAT TRACE ALONG PROPOSED UTILITY REPLACEMENT, SEE SHEET C-072 AND E-100.



2 PROFILE: UTILITY REPLACEMENT

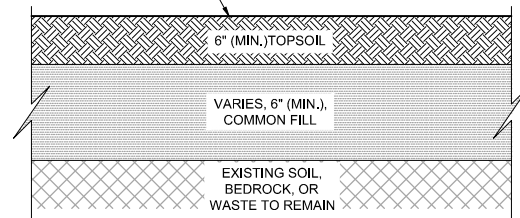
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HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET

100% DRAFT  
NOT FOR CONSTRUCTION  
06/30/2022

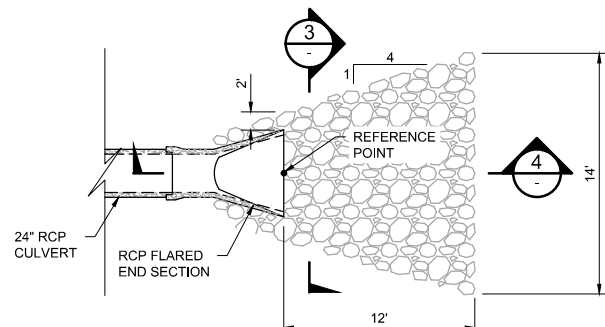
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				CLIENT: 06/30/2021 06/30/2022 BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435				Scale: AS SHOWN Date: 09/05/2019 Drawn: AWT Checked: BDP Designed: BARR Approved:				FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA BARR PROJECT No. 23/19-1372.00 CLIENT PROJECT No.			
PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE #: _____				RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:				Minnesota Pollution Control Agency Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				UTILITY REPLACEMENT PLAN AND PROFILE DWG. No. C-071 REV. No. B			

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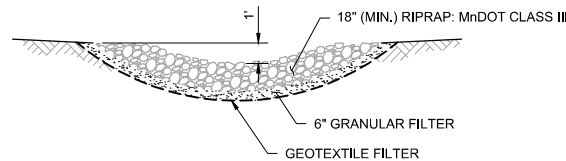
FINAL RESTORATION SURFACE AS SHOWN ON SHEETS C-060, C-061, AND C-066



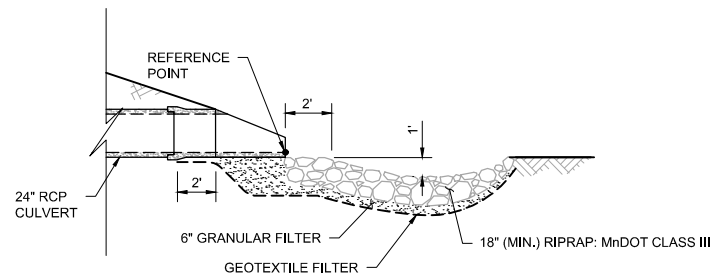
**1** DETAIL: FINAL RESTORATION  
C-067, C-071, C-141  
NOT TO SCALE



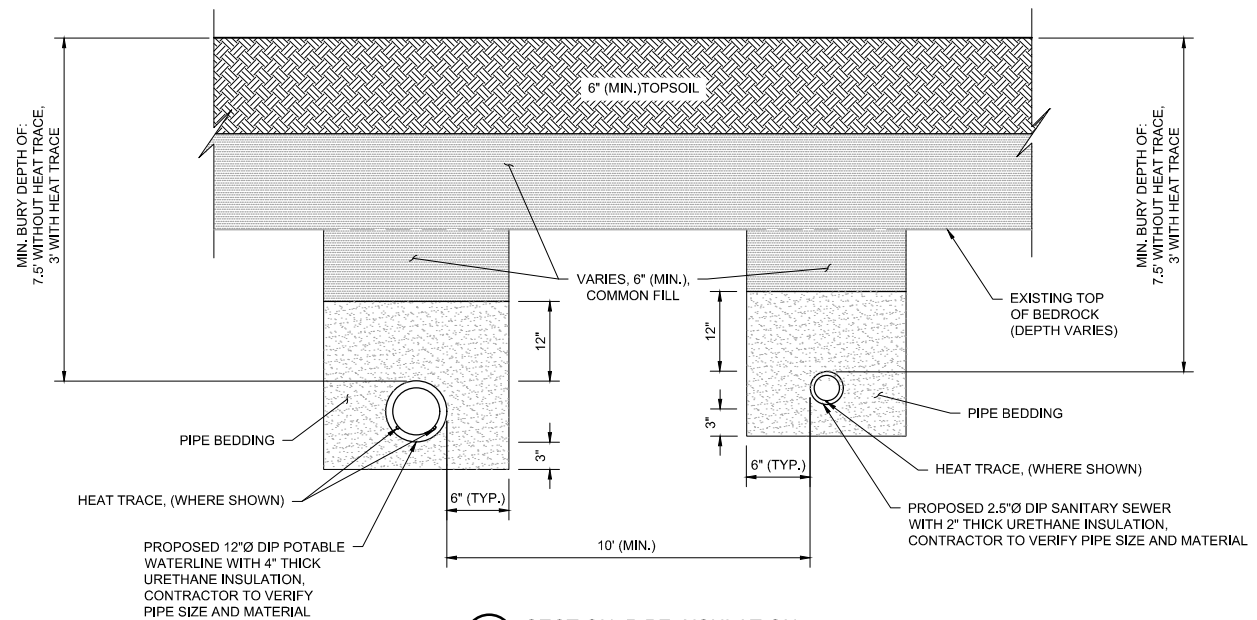
**2** SECTION: CULVERT RIPRAP APRON  
C-201, C-202  
NOT TO SCALE



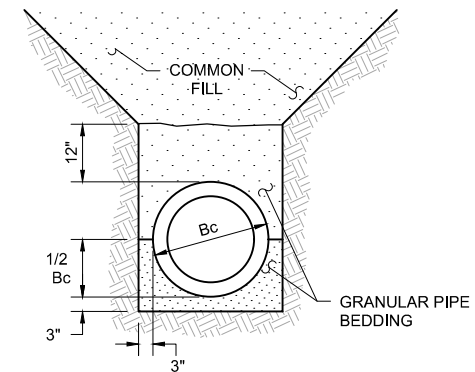
**3** SECTION: RIPRAP & GEOTEXTILE FILTER  
NOT TO SCALE



**4** SECTION: PIPE AND RIPRAP  
NOT TO SCALE



**5** SECTION: PIPE INSULATION  
C-071  
NOT TO SCALE



**6** DETAIL: PIPE BEDDING  
NOT TO SCALE

**NOTES**

- EXCAVATE COMMON EXCAVATION FOR REUSE TO SUPPORT WASTE EXCAVATION. SEE SPECIFICATION 31 23 00.
- EXCAVATE BEDROCK PER SPECIFICATION 31 23 00.
- MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY. PROVIDE TEMPORARY UTILITY SERVICE (NOT SHOWN) WHILE EXCAVATING WASTE BENEATH EXISTING UTILITIES AND CONSTRUCTING NEW UTILITIES. PROVIDE HEAT FOR TEMPORARY UTILITIES AS NECESSARY.
- INSTALL TEMPORARY AND PERMANENT UTILITIES PER SPECIFICATIONS 33 05 28, 33 10 00, AND 33 30 00.
- PLACE COMMON FILL, GRANULAR FILTER, PIPE BEDDING, AND TOPSOIL PER SPECIFICATIONS 31 23 00 AND 31 23 23.
- SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
- INSTALL RCP CULVERT PER SPECIFICATION 33 05 28 AND 33 40 00.
- INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13.
- PLACE RIPRAP PER SPECIFICATION 31 37 00.

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NOT FOR CONSTRUCTION  
06/30/2022

CADD USER: Andrea W. Talkner; FILE: M:\DESIGN\23191372\06\2319137205_LINE_C-072.DWG; PLOT SCALE: 1:2; PLOT DATE: 06/28/2022 3:38 PM; BARR - AutoCAD 2011; Support\new\Template\Barr_2011_Template.dwt; Plot at 1: 10/05/2010 14:09:50

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: _____  
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CLIENT	06/30/2021	06/30/2022					
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

**BARR** Project Office:  
BARR ENGINEERING CO.  
4300 MARKETPOINTE DRIVE  
Suite 200  
MINNEAPOLIS, MN 55435

Corporate Headquarters:  
Minneapolis, Minnesota  
Ph: 1-800-632-2277  
Fax: (952) 832-2601  
www.barr.com

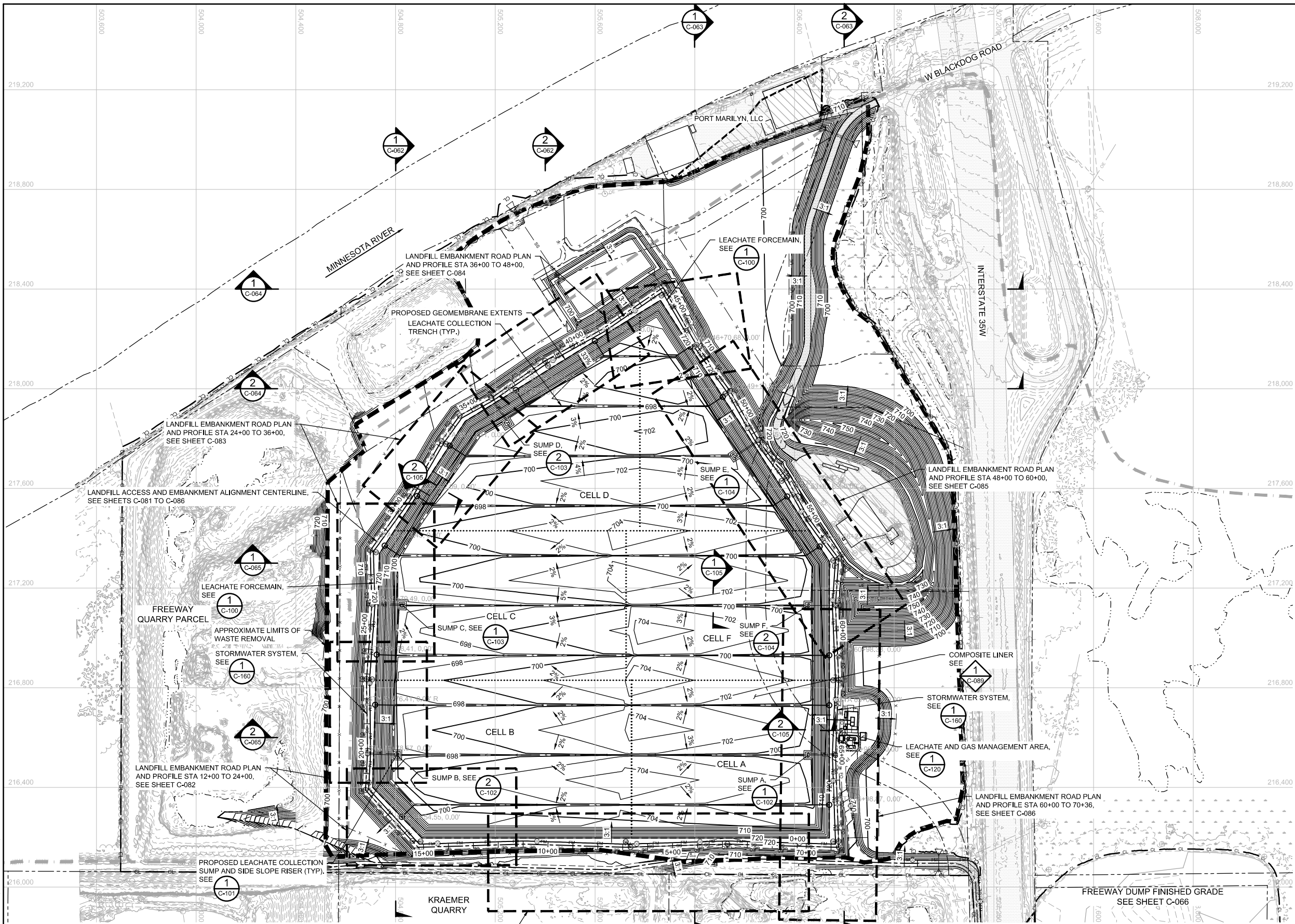
Scale	AS SHOWN
Date	01/21/2020
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	-

**MINNESOTA POLLUTION CONTROL AGENCY**

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

GENERAL SECTIONS AND DETAILS

BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-072	REV. No. B

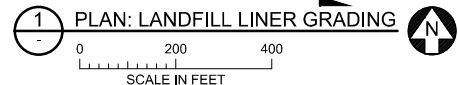


**LEGEND**

- CL — CL — CONSTRUCTION LIMITS
- - - - - PROPERTY BOUNDARY
- - - - - EXISTING FLOODWAY BOUNDARY
- 740 — EXISTING 10-FOOT CONTOUR
- - - - - EXISTING 2-FOOT CONTOUR
- OE — OE — EXISTING OVERHEAD ELECTRIC
- UE — UE — EXISTING UNDERGROUND ELECTRIC
- T — T — EXISTING TELEPHONE LINE
- FO — FO — EXISTING FIBER OPTIC
- W — W — EXISTING POTABLE
- SS — SS — EXISTING STORM
- SAN — SAN — EXISTING SANITARY
- X — X — EXISTING CHAIN LINK FENCE
- ~ ~ ~ ~ ~ EXISTING TREE LINE
- - - - - APPROXIMATE LIMITS OF WASTE REMOVAL
- - - - - APPROXIMATE LIMITS OF WASTE TO REMAIN
- EXISTING BUILDING
- WETLANDS
- EXISTING BITUMINOUS PAVEMENT
- EXISTING GRAVEL PAVEMENT
- EXISTING MONITORING WELL
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING ELECTRIC PEDESTAL
- EXISTING WATER MANHOLE
- EXISTING PIV
- EXISTING GATE VALVE
- EXISTING FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING COMMUNICATIONS BOX
- EXISTING SIGN
- EXISTING BOLLARD
- 710 — PROPOSED 10-FOOT CONTOUR
- 712 — PROPOSED 2-FOOT CONTOUR
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED GRAVEL SURFACING
- PROPOSED GEOMEMBRANE EXTENTS
- CELL BOUNDARY
- PROPOSED STORM SEWER
- PROPOSED LEACHATE FORCEMAIN
- PROPOSED LEACHATE COLLECTION PIPE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED UNDERGROUND FIBER OPTIC
- PROPOSED CHAIN LINK FENCE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED LEACHATE FORCEMAIN CLEANOUT

CELL	CELL AREA (AC)
A	11.5
B	14.6
C	13.6
D	12.0
E	8.1
F	11.1

2. TABLE: LANDFILL CELL AREAS



1. PROPOSED CONTOURS SHOWN INSIDE OF THE GEOMEMBRANE EXTENTS REPRESENT TOP OF CLAY LINER. PROPOSED CONTOURS SHOWN OUTSIDE THE GEOMEMBRANE EXTENTS REPRESENT TOP OF FINISHED GROUND.
2. SEE SHEET C-090 FOR EMBANKMENT ROAD ALIGNMENT LINE TABLES.

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NOT FOR CONSTRUCTION  
06/30/2022

CADD USER: Andreea W. Tokkmer; FILE: M:\DESIGN\23191372\062319137205_LINE_C-080.DWG; PLOT SCALE: 1:2; PLOT DATE: 6/30/2022 3:38 PM

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CLIENT	BID	CONSTRUCTION
6/30/2021	6/30/2021	

**BARR** ENGINEERING CO.  
4300 MARKETPOINTE DRIVE  
SUITE 200  
MINNEAPOLIS, MN 55435

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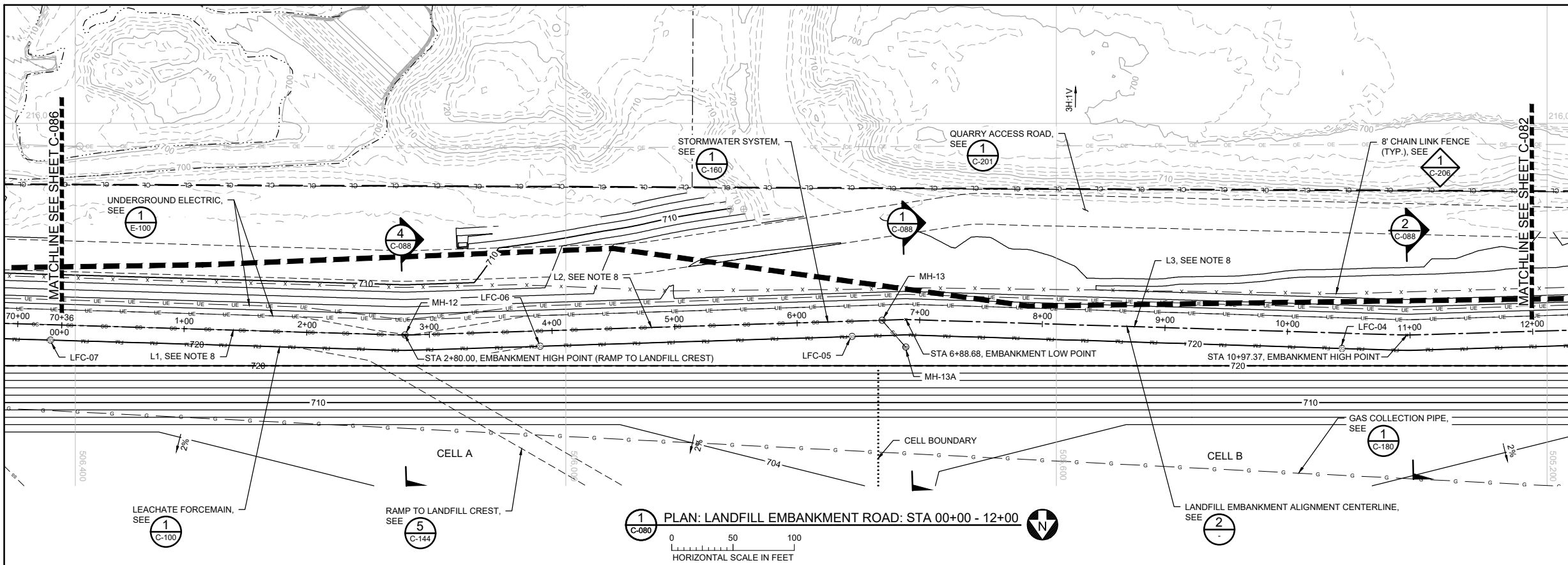
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Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

LANDFILL LINER GRADING  
PLAN

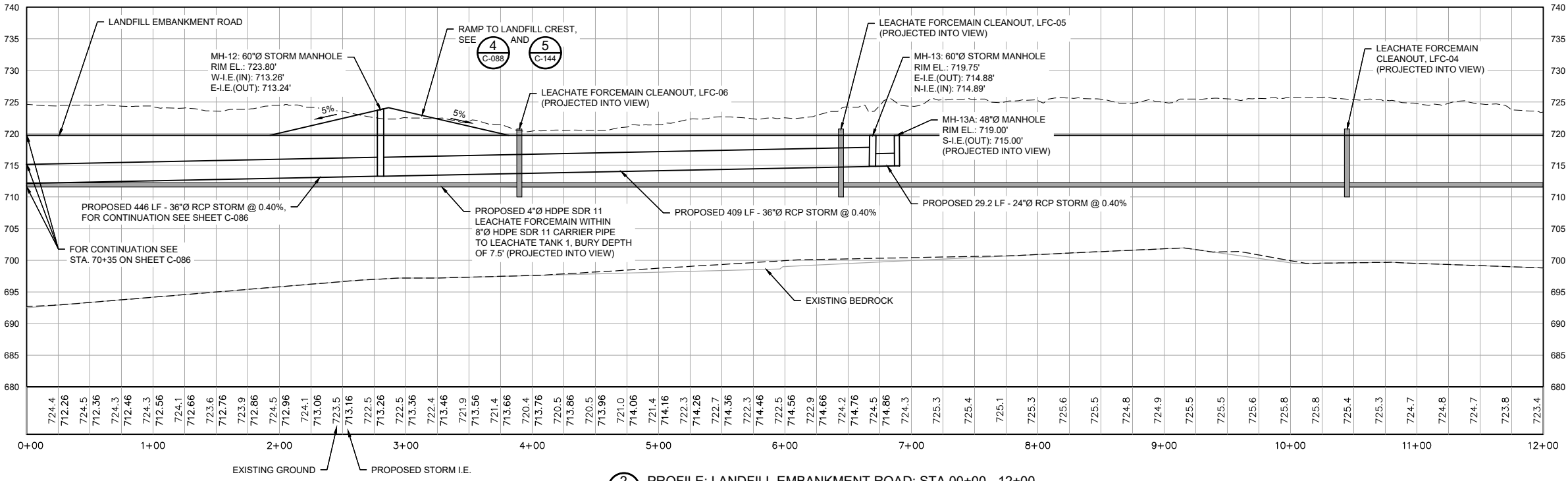
BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-080	REV. No. B



**1 PLAN: LANDFILL EMBANKMENT ROAD: STA 00+00 - 12+00**

**LEGEND**

--- CL --- CL ---	CONSTRUCTION LIMITS
---	PROPERTY BOUNDARY
- - - - -	EXISTING FLOODWAY BOUNDARY
- - - - -	EXISTING WATERLINE (2020-06-12)
---	EXISTING 10-FOOT CONTOUR
---	EXISTING 2-FOOT CONTOUR
---	EXISTING OVERHEAD ELECTRIC
---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	EXISTING GRAVEL PAVEMENT
---	EXISTING MONITORING WELL
---	EXISTING POWER POLE
---	PROPOSED 10-FOOT CONTOUR
---	PROPOSED 2-FOOT CONTOUR
---	PROPOSED GRAVEL PAVEMENT
---	CELL BOUNDARY
---	PROPOSED GEOMEMBRANE LINER EXTENTS
---	PROPOSED STORM SEWER
---	PROPOSED LEACHATE FORCEMAIN
---	PROPOSED LEACHATE COLLECTION PIPE
---	PROPOSED LEACHATE PIPE CLEANOUT
---	PROPOSED GAS COLLECTION PIPE
---	PROPOSED UNDERGROUND ELECTRIC
---	PROPOSED UNDERGROUND FIBER OPTIC
---	PROPOSED CHAIN LINK FENCE
---	PROPOSED STORM SEWER MANHOLE
---	PROPOSED LEACHATE FORCEMAIN CLEANOUT
---	PROPOSED ELECTRIC HANDHOLE



**2 PROFILE: LANDFILL EMBANKMENT ROAD: STA 00+00 - 12+00**

- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 5 FOR CLARITY.
  2. PLACE COMMON FILL PER SPECIFICATION 31 23 00.
  3. PLACE GRAVEL SURFACING PER SHEET C-088 AND SPECIFICATION 32 10 00.
  4. INSTALL STORM SEWER PIPING AND MANHOLES PER SHEETS C-160 TO C-169 AND SPECIFICATIONS 33 05 28 AND 33 40 00.
  5. MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
  6. INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108 AND SPECIFICATIONS 33 05 28 AND 33 90 01.
  7. TO OPTIMIZE CLARITY, UNDERGROUND ELECTRIC AND FIBER OPTIC NOT SHOWN IN PROFILE.
  8. SEE SHEET C-090 FOR EMBANKMENT ROAD ALIGNMENT LINE TABLES.

**LEGEND**

---	EXISTING GROUND
---	EXISTING BEDROCK
---	PROPOSED EXCAVATION SURFACE
---	PROPOSED LANDFILL EMBANKMENT ROAD
---	PROPOSED STORM SEWER
---	PROPOSED LEACHATE FORCEMAIN, PROJECTED INTO VIEW

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06/30/2022

CADD USER: Jack A. Mettich File: M:\DESIGN\23191372\052319137205_LINE_C-081.DWG PLOT SCALE: 1:2 PLOT DATE: 06/30/2022 12:35 PM

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DATE: _____ LICENSE # _____

CLIENT	06/30/2022	06/30/2022							
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CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

**BARR** ENGINEERING CO.  
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Suite 200  
MINNEAPOLIS, MN 55435

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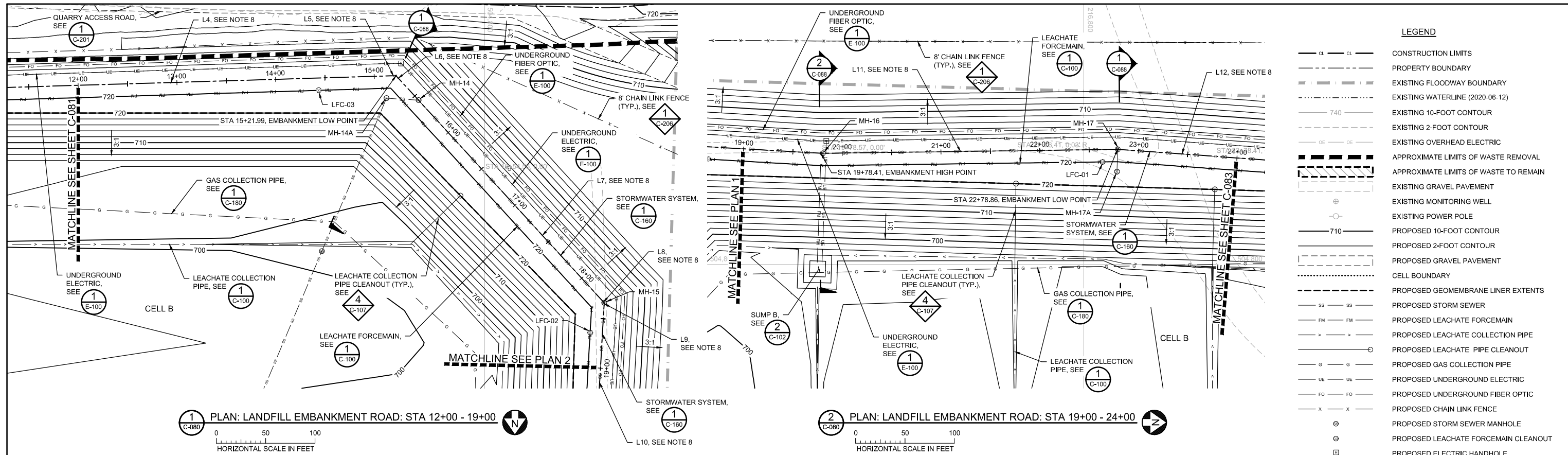
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Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	



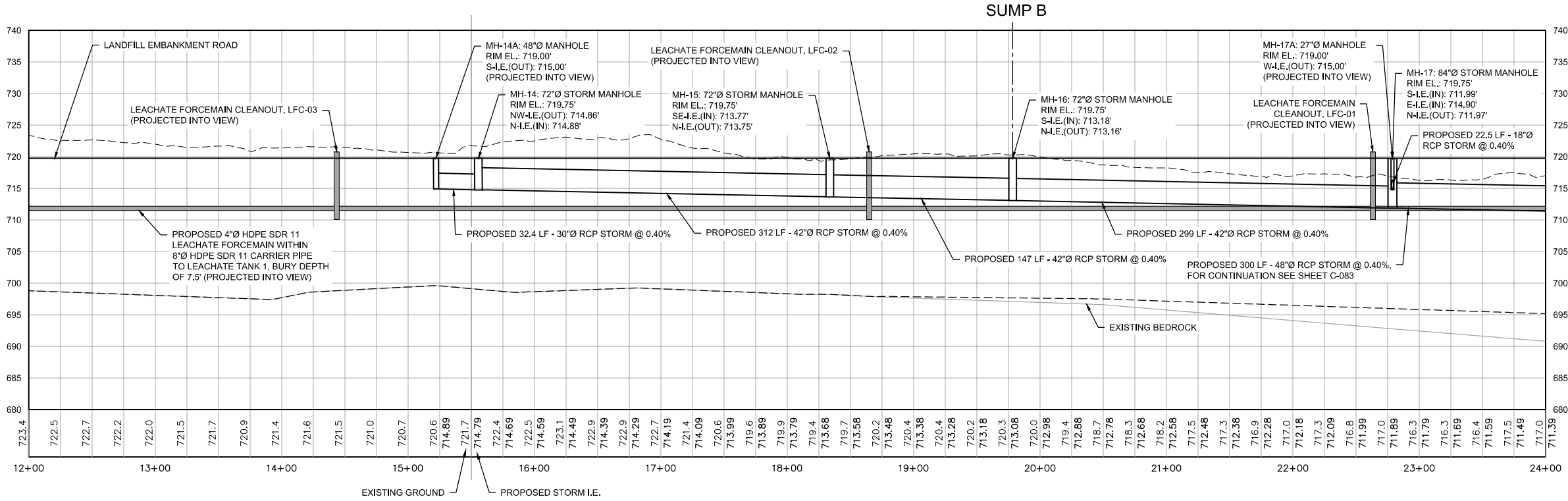
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

LANDFILL EMBANKMENT ROAD  
PLAN AND PROFILE STA 0+00 TO 12+00

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-081
REV. No.	B



- LEGEND**
- CL CL CONSTRUCTION LIMITS
  - PROPERTY BOUNDARY
  - EXISTING FLOODWAY BOUNDARY
  - EXISTING WATERLINE (2020-06-12)
  - EXISTING 10-FOOT CONTOUR
  - EXISTING 2-FOOT CONTOUR
  - OE OE EXISTING OVERHEAD ELECTRIC
  - APPROXIMATE LIMITS OF WASTE REMOVAL
  - APPROXIMATE LIMITS OF WASTE TO REMAIN
  - EXISTING GRAVEL PAVEMENT
  - EXISTING MONITORING WELL
  - EXISTING POWER POLE
  - 710 PROPOSED 10-FOOT CONTOUR
  - PROPOSED 2-FOOT CONTOUR
  - PROPOSED GRAVEL PAVEMENT
  - CELL BOUNDARY
  - PROPOSED GEOMEMBRANE LINER EXTENTS
  - SS SS PROPOSED STORM SEWER
  - FM FM PROPOSED LEACHATE FORCEMAIN
  - PROPOSED LEACHATE COLLECTION PIPE
  - PROPOSED LEACHATE PIPE CLEANOUT
  - PROPOSED GAS COLLECTION PIPE
  - UE UE PROPOSED UNDERGROUND ELECTRIC
  - FO FO PROPOSED UNDERGROUND FIBER OPTIC
  - PROPOSED CHAIN LINK FENCE
  - PROPOSED STORM SEWER MANHOLE
  - PROPOSED LEACHATE FORCEMAIN CLEANOUT
  - PROPOSED ELECTRIC HANDHOLE



- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 5 FOR CLARITY.
  2. PLACE COMMON FILL PER SPECIFICATION 31 23 00.
  3. PLACE GRAVEL SURFACING PER SHEET C-088 AND SPECIFICATION 32 10 00.
  4. INSTALL STORM SEWER PIPING AND MANHOLES PER SHEETS C-160 TO C-169 AND SPECIFICATIONS 33 05 28 AND 33 40 00.
  5. MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
  6. INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108 AND SPECIFICATIONS 33 05 28 AND 33 90 01.
  7. TO OPTIMIZE CLARITY, UNDERGROUND ELECTRIC AND FIBER OPTIC NOT SHOWN IN PROFILE.
  8. SEE SHEET C-090 FOR EMBANKMENT ROAD ALIGNMENT LINE TABLES.

- LEGEND**
- EXISTING GROUND
  - EXISTING BEDROCK
  - PROPOSED EXCAVATION SURFACE
  - PROPOSED LANDFILL EMBANKMENT ROAD
  - PROPOSED STORM SEWER
  - PROPOSED LEACHATE FORCEMAIN, PROJECTED INTO VIEW

**3** PROFILE: LANDFILL EMBANKMENT ROAD: STA 12+00 - 24+00

HORIZONTAL SCALE IN FEET: 0 50 100  
 VERTICAL SCALE IN FEET: 0 10 20

CADD USER: ANDERS W. TOLKINEN FILE: M:\DESIGN\23191372\0523191372\0523191372\LINE_C-082.DWG PLOT SCALE: 1/2"=1'-0" DATE: 06/30/2022 3:43 PM

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PRINTED NAME: _____  
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 DATE: _____ LICENSE #: _____

CLIENT	DATE	REV.	DESCRIPTION
BARR	06/30/2022	0	

**BARR** ENGINEERING CO.  
 4300 MARKETPOINTE DRIVE  
 SUITE 200  
 MINNEAPOLIS, MN 55435

Project Office:  
 BARR ENGINEERING CO.  
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Corporate Headquarters:  
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Scale	AS SHOWN
Date	04/27/2021
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	

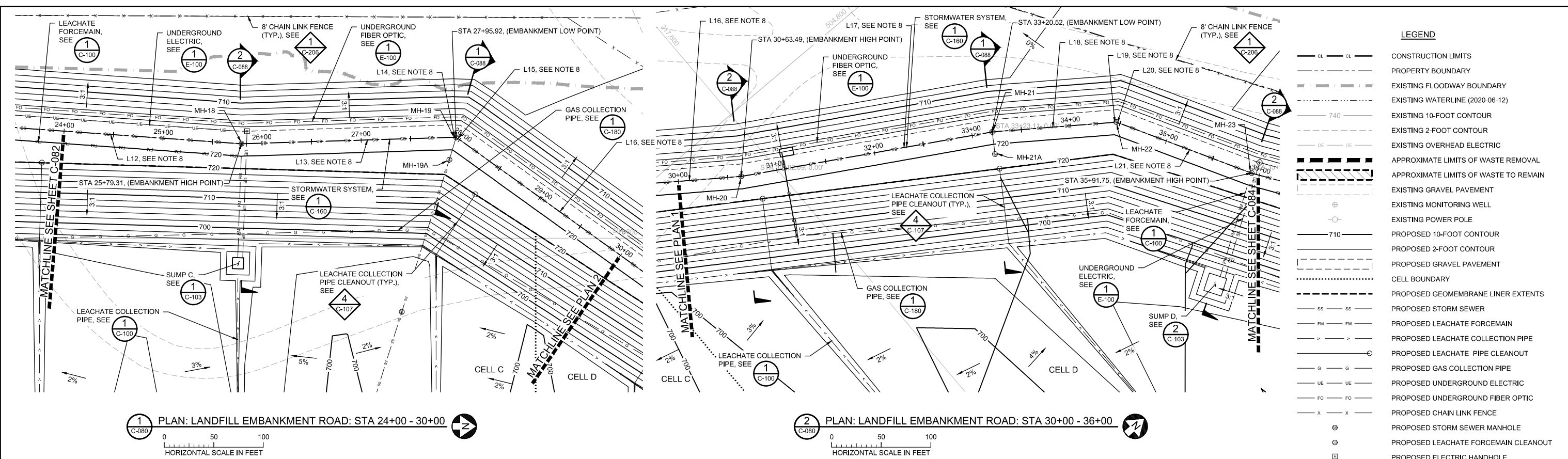


FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA

LANDFILL EMBANKMENT ROAD  
 PROFILES STA. 12+00 TO 24+00

BARR PROJECT No. 23/19-1372.00	CLIENT PROJECT No. 
DWG. No. C-082	REV. No. B

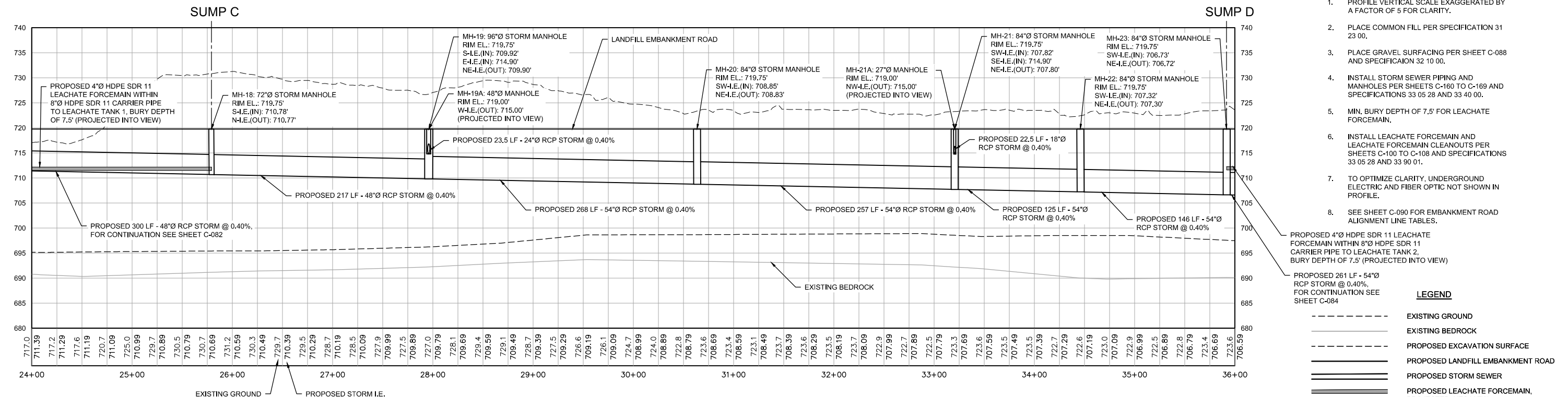




- LEGEND**
- CL --- CL --- CONSTRUCTION LIMITS
  - P --- P --- PROPERTY BOUNDARY
  - EFB --- EFB --- EXISTING FLOODWAY BOUNDARY
  - EW --- EW --- EXISTING WATERLINE (2020-06-12)
  - E10 --- E10 --- EXISTING 10-FOOT CONTOUR
  - E20 --- E20 --- EXISTING 2-FOOT CONTOUR
  - OE --- OE --- EXISTING OVERHEAD ELECTRIC
  - ALWR --- ALWR --- APPROXIMATE LIMITS OF WASTE REMOVAL
  - ALWR --- ALWR --- APPROXIMATE LIMITS OF WASTE TO REMAIN
  - EG --- EG --- EXISTING GRAVEL PAVEMENT
  - EMW --- EMW --- EXISTING MONITORING WELL
  - EP --- EP --- EXISTING POWER POLE
  - P10 --- P10 --- PROPOSED 10-FOOT CONTOUR
  - P20 --- P20 --- PROPOSED 2-FOOT CONTOUR
  - PG --- PG --- PROPOSED GRAVEL PAVEMENT
  - CB --- CB --- CELL BOUNDARY
  - GML --- GML --- PROPOSED GEOMEMBRANE LINER EXTENTS
  - SS --- SS --- PROPOSED STORM SEWER
  - FM --- FM --- PROPOSED LEACHATE FORCEMAIN
  - LCP --- LCP --- PROPOSED LEACHATE COLLECTION PIPE
  - LCP --- LCP --- PROPOSED LEACHATE PIPE CLEANOUT
  - GCP --- GCP --- PROPOSED GAS COLLECTION PIPE
  - UE --- UE --- PROPOSED UNDERGROUND ELECTRIC
  - UFO --- UFO --- PROPOSED UNDERGROUND FIBER OPTIC
  - X --- X --- PROPOSED CHAIN LINK FENCE
  - SM --- SM --- PROPOSED STORM SEWER MANHOLE
  - LCC --- LCC --- PROPOSED LEACHATE FORCEMAIN CLEANOUT
  - EH --- EH --- PROPOSED ELECTRIC HANDHOLE

1 PLAN: LANDFILL EMBANKMENT ROAD: STA 24+00 - 30+00  
 0 50 100  
 HORIZONTAL SCALE IN FEET

2 PLAN: LANDFILL EMBANKMENT ROAD: STA 30+00 - 36+00  
 0 50 100  
 HORIZONTAL SCALE IN FEET



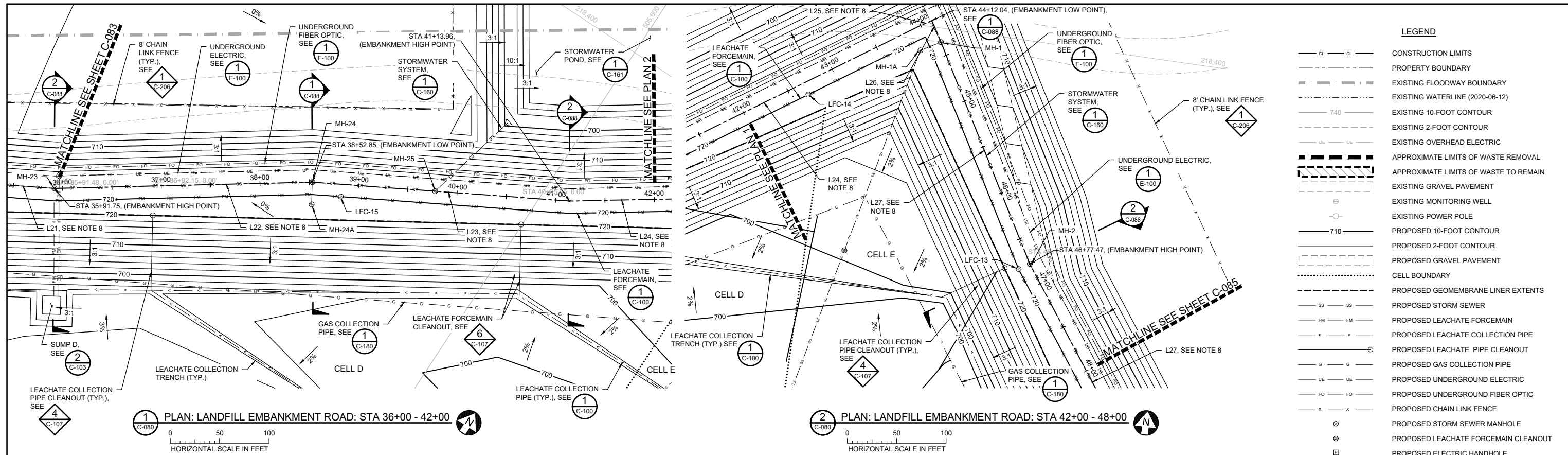
3 PROFILE: LANDFILL EMBANKMENT ROAD: STA 24+00 - 36+00  
 0 50 100 0 10 20  
 HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET

- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 5 FOR CLARITY.
  2. PLACE COMMON FILL PER SPECIFICATION 31 23 00.
  3. PLACE GRAVEL SURFACING PER SHEET C-088 AND SPECIFICATION 32 10 00.
  4. INSTALL STORM SEWER PIPING AND MANHOLES PER SHEETS C-160 TO C-169 AND SPECIFICATIONS 33 05 28 AND 33 40 00.
  5. MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
  6. INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108 AND SPECIFICATIONS 33 05 28 AND 33 90 01.
  7. TO OPTIMIZE CLARITY, UNDERGROUND ELECTRIC AND FIBER OPTIC NOT SHOWN IN PROFILE.
  8. SEE SHEET C-090 FOR EMBANKMENT ROAD ALIGNMENT LINE TABLES.
- LEGEND**
- EG --- EG --- EXISTING GROUND
  - EB --- EB --- EXISTING BEDROCK
  - ES --- ES --- PROPOSED EXCAVATION SURFACE
  - LER --- LER --- PROPOSED LANDFILL EMBANKMENT ROAD
  - SS --- SS --- PROPOSED STORM SEWER
  - LCF --- LCF --- PROPOSED LEACHATE FORCEMAIN, PROJECTED INTO VIEW

CADD USER: ANDERS W. TOLKINEN FILE: M:\DESIGN\2319137205_LINE_C-083.DWG PLOT SCALE: 1/2"=1' PLOT DATE: 6/29/2022 3:47 PM

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID CONSTRUCTION		PROJECT OFFICE BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435		Scale AS SHOWN Date 04/27/2021 Drawn AWT Checked BDP Designed BARR Approved		FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA		BARR PROJECT No. 23/19-1372.00	
PRINTED NAME SIGNATURE DATE LICENSE #		RELEASED TO/FOR DATE RELEASED		Project Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Minnesota POLLUTION CONTROL AGENCY		LANDFILL EMBANKMENT ROAD PROFILES STA. 24+00 TO 36+00		CLIENT PROJECT No. DWG. No. C-083 REV. No. B	



**LEGEND**

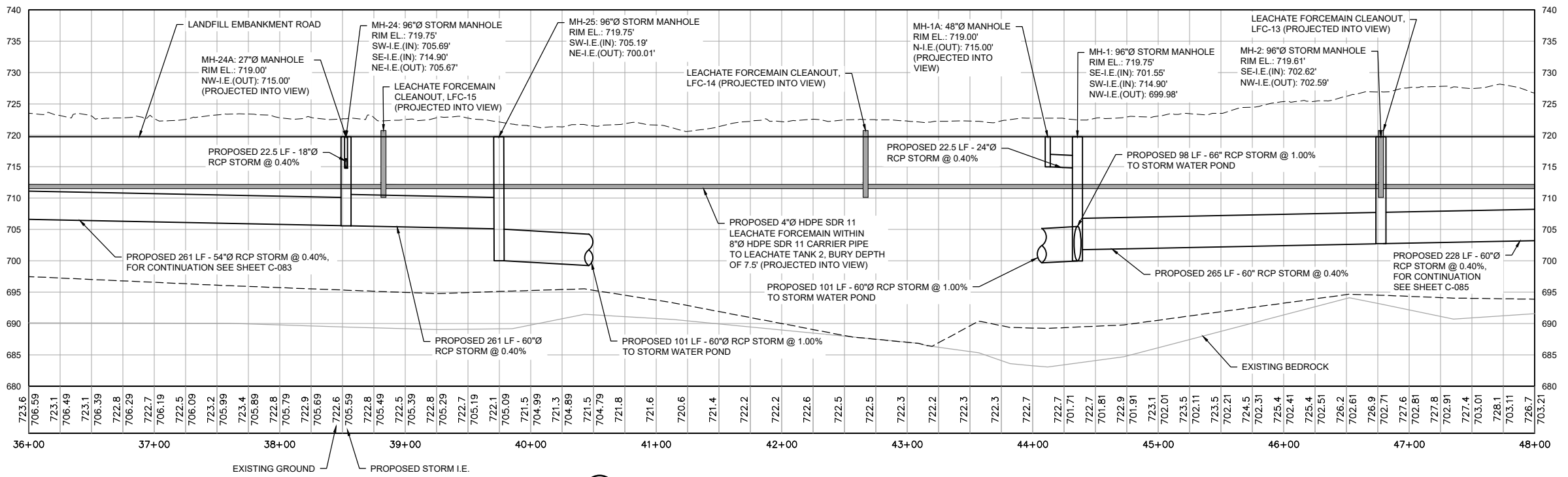
- CL --- CL --- CONSTRUCTION LIMITS
- P --- P --- PROPERTY BOUNDARY
- F --- F --- EXISTING FLOODWAY BOUNDARY
- W --- W --- EXISTING WATERLINE (2020-06-12)
- 740 --- 740 --- EXISTING 10-FOOT CONTOUR
- 720 --- 720 --- EXISTING 2-FOOT CONTOUR
- OE --- OE --- EXISTING OVERHEAD ELECTRIC
- W --- W --- APPROXIMATE LIMITS OF WASTE REMOVAL
- W --- W --- APPROXIMATE LIMITS OF WASTE TO REMAIN
- G --- G --- EXISTING GRAVEL PAVEMENT
- M --- M --- EXISTING MONITORING WELL
- P --- P --- EXISTING POWER POLE
- 710 --- 710 --- PROPOSED 10-FOOT CONTOUR
- 720 --- 720 --- PROPOSED 2-FOOT CONTOUR
- G --- G --- PROPOSED GRAVEL PAVEMENT
- C --- C --- CELL BOUNDARY
- G --- G --- PROPOSED GEOMEMBRANE LINER EXTENTS
- SS --- SS --- PROPOSED STORM SEWER
- FM --- FM --- PROPOSED LEACHATE FORCEMAIN
- C --- C --- PROPOSED LEACHATE COLLECTION PIPE
- C --- C --- PROPOSED LEACHATE PIPE CLEANOUT
- G --- G --- PROPOSED GAS COLLECTION PIPE
- UE --- UE --- PROPOSED UNDERGROUND ELECTRIC
- FO --- FO --- PROPOSED UNDERGROUND FIBER OPTIC
- X --- X --- PROPOSED CHAIN LINK FENCE
- ⊕ --- ⊕ --- PROPOSED STORM SEWER MANHOLE
- ⊙ --- ⊙ --- PROPOSED LEACHATE FORCEMAIN CLEANOUT
- ⊞ --- ⊞ --- PROPOSED ELECTRIC HANDHOLE

1 PLAN: LANDFILL EMBANKMENT ROAD: STA 36+00 - 42+00

0 50 100  
HORIZONTAL SCALE IN FEET

2 PLAN: LANDFILL EMBANKMENT ROAD: STA 42+00 - 48+00

0 50 100  
HORIZONTAL SCALE IN FEET



3 PROFILE: LANDFILL EMBANKMENT ROAD: STA 36+00 - 48+00

0 50 100 0 10 20  
HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET

- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 5 FOR CLARITY.
  2. PLACE COMMON FILL PER SPECIFICATION 31 23 00.
  3. PLACE GRAVEL SURFACING PER SHEET C-088 AND SPECIFICATION 32 10 00.
  4. INSTALL STORM SEWER PIPING AND MANHOLES PER SHEETS C-160 TO C-169 AND SPECIFICATIONS 33 05 28 AND 33 40 00.
  5. MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
  6. INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108 AND SPECIFICATIONS 33 05 28 AND 33 90 01.
  7. TO OPTIMIZE CLARITY, UNDERGROUND ELECTRIC AND FIBER OPTIC NOT SHOWN IN PROFILE.
  8. SEE SHEET C-090 FOR EMBANKMENT ROAD ALIGNMENT LINE TABLES.

**LEGEND**

- --- EXISTING GROUND
- --- EXISTING BEDROCK
- --- PROPOSED EXCAVATION SURFACE
- --- PROPOSED LANDFILL EMBANKMENT ROAD
- --- PROPOSED STORM SEWER
- --- PROPOSED LEACHATE FORCEMAIN, PROJECTED INTO VIEW

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CADD USER: JACK.A.METTLACH FILE: M:\DESIGN\23191372\062019\137206 LINE_C-084.DWG PLOT SCALE: 1:12 PLOT DATE: 6/30/2022 12:37 PM

NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: _____  
SIGNATURE: _____  
DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
06/30/2021	06/30/21		A B C 0 1 2 3	

**BARR** ENGINEERING CO.  
4300 MARKETPOINTE DRIVE  
Suite 200  
MINNEAPOLIS, MN 55435

Project Office:  
BARR ENGINEERING CO.  
4300 MARKETPOINTE DRIVE  
Suite 200  
MINNEAPOLIS, MN 55435

Corporate Headquarters:  
Minneapolis, Minnesota  
Ph: 1-800-632-2277  
Fax: (952) 832-2601  
www.barr.com

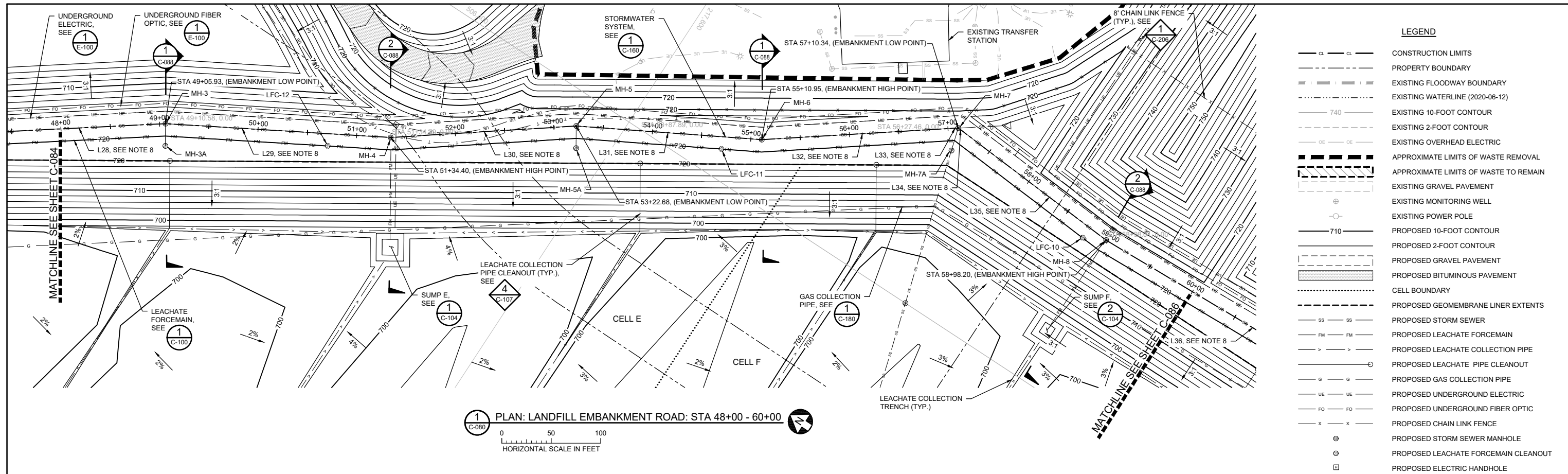
Scale	AS SHOWN
Date	04/27/2021
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	

**MINNESOTA POLLUTION CONTROL AGENCY**

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

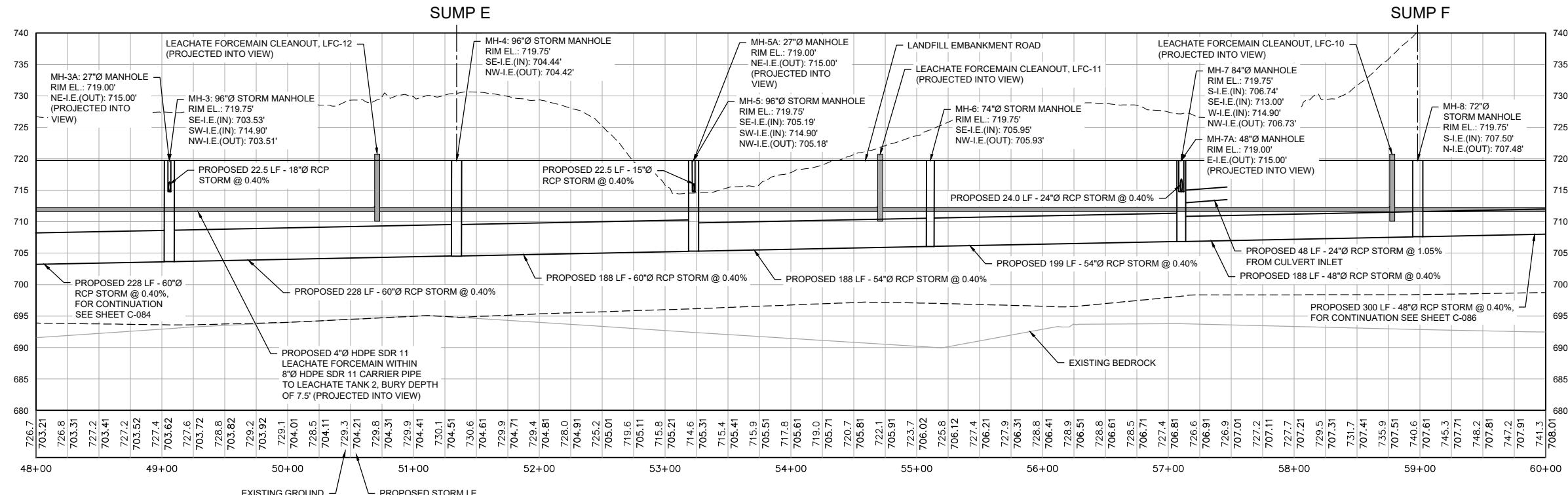
LANDFILL EMBANKMENT ROAD  
PROFILES STA. 36+00 TO 48+00

BARR PROJECT No. 23/19-1372.00	CLIENT PROJECT No.
DWG. No. C-084	REV. No. B



1 PLAN: LANDFILL EMBANKMENT ROAD: STA 48+00 - 60+00

- LEGEND**
- CL --- CL --- CONSTRUCTION LIMITS
  - - - - - PROPERTY BOUNDARY
  - - - - - EXISTING FLOODWAY BOUNDARY
  - - - - - EXISTING WATERLINE (2020-06-12)
  - 740 --- EXISTING 10-FOOT CONTOUR
  - - - - - EXISTING 2-FOOT CONTOUR
  - OE --- OE --- EXISTING OVERHEAD ELECTRIC
  - - - - - APPROXIMATE LIMITS OF WASTE REMOVAL
  - - - - - APPROXIMATE LIMITS OF WASTE TO REMAIN
  - --- EXISTING GRAVEL PAVEMENT
  - --- EXISTING MONITORING WELL
  - --- EXISTING POWER POLE
  - 710 --- PROPOSED 10-FOOT CONTOUR
  - - - - - PROPOSED 2-FOOT CONTOUR
  - --- PROPOSED GRAVEL PAVEMENT
  - --- PROPOSED BITUMINOUS PAVEMENT
  - --- CELL BOUNDARY
  - - - - - PROPOSED GEOMEMBRANE LINER EXTENTS
  - SS --- SS --- PROPOSED STORM SEWER
  - FM --- FM --- PROPOSED LEACHATE FORCEMAIN
  - > --- > --- PROPOSED LEACHATE COLLECTION PIPE
  - --- PROPOSED LEACHATE PIPE CLEANOUT
  - G --- G --- PROPOSED GAS COLLECTION PIPE
  - UE --- UE --- PROPOSED UNDERGROUND ELECTRIC
  - FO --- FO --- PROPOSED UNDERGROUND FIBER OPTIC
  - x --- x --- PROPOSED CHAIN LINK FENCE
  - ⊕ --- ⊕ --- PROPOSED STORM SEWER MANHOLE
  - ⊙ --- ⊙ --- PROPOSED LEACHATE FORCEMAIN CLEANOUT
  - ⊞ --- ⊞ --- PROPOSED ELECTRIC HANDHOLE



2 PROFILE: LANDFILL EMBANKMENT ROAD: STA 48+00 - 60+00

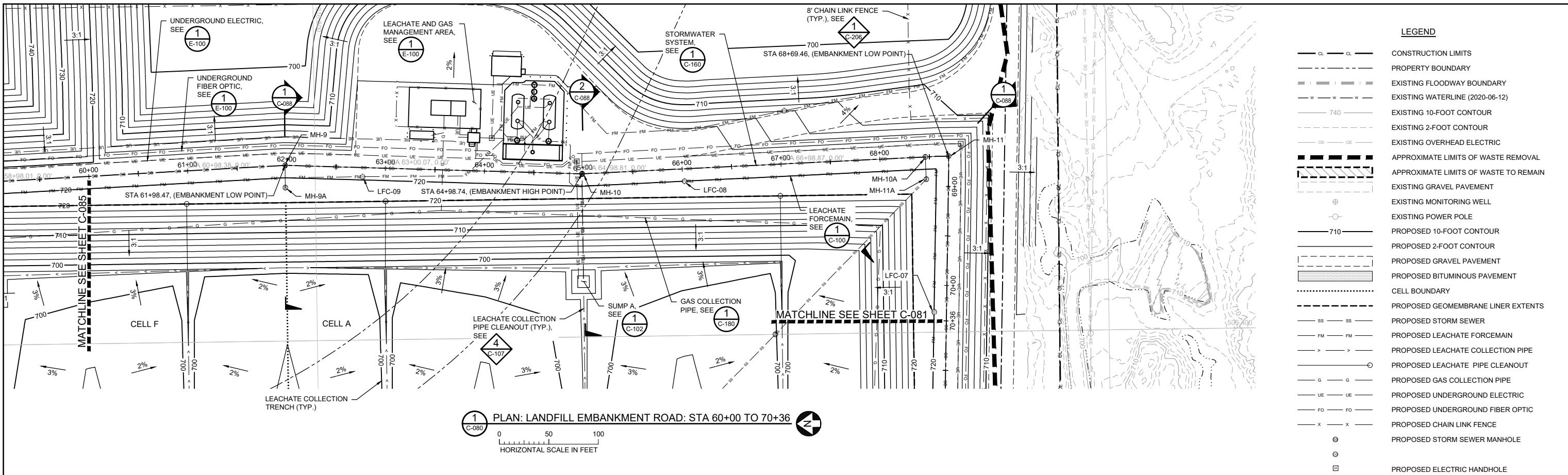
- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 5 FOR CLARITY.
  2. PLACE COMMON FILL PER SPECIFICATION 31 23 00.
  3. PLACE GRAVEL SURFACING PER SHEET C-088 AND SPECIFICATION 32 10 00.
  4. INSTALL STORM SEWER PIPING AND MANHOLES PER SHEETS C-160 TO C-169 AND SPECIFICATIONS 33 05 28 AND 33 40 00.
  5. MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
  6. INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108 AND SPECIFICATIONS 33 05 28 AND 33 90 01.
  7. TO OPTIMIZE CLARITY, UNDERGROUND ELECTRIC AND FIBER OPTIC NOT SHOWN IN PROFILE.
  8. SEE SHEET C-090 FOR EMBANKMENT ROAD ALIGNMENT LINE TABLES.

- LEGEND**
- - - - - EXISTING GROUND
  - - - - - EXISTING BEDROCK
  - - - - - PROPOSED EXCAVATION SURFACE
  - === PROPOSED LANDFILL EMBANKMENT ROAD
  - === PROPOSED STORM SEWER
  - === PROPOSED LEACHATE FORCEMAIN, PROJECTED INTO VIEW

CADD USER: JACK.A.METTLACH FILE: M:\DESIGN\23191372\062919137206.DWG PLOT SCALE: 1:12 PLOT DATE: 6/29/2022 3:49 PM

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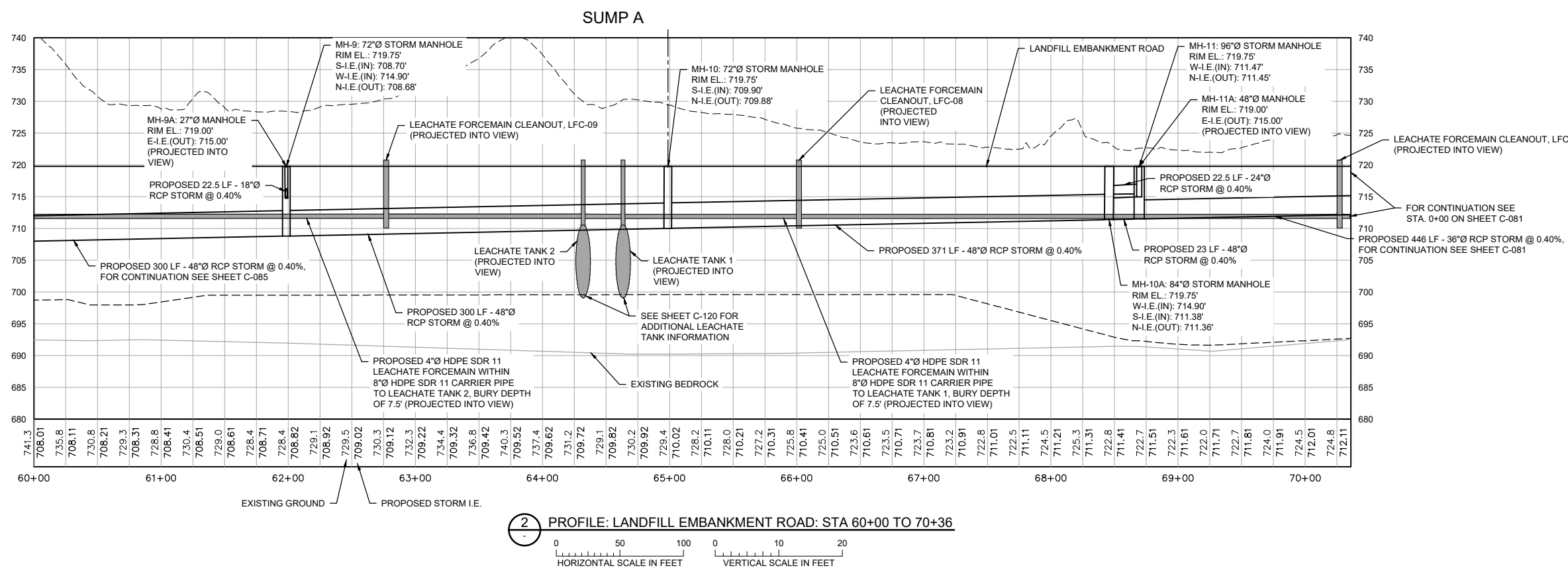
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				CLIENT BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435		Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435		Scale: AS SHOWN Date: 04/27/2021 Drawn: AWT Checked: BDP Designed: BARR Approved:		FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA		BARR PROJECT No. 23/19-1372.00	
				PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE #: _____		RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:		Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		MINNESOTA POLLUTION CONTROL AGENCY		LANDFILL EMBANKMENT ROAD PROFILES STA. 48+00 TO 60+00	



**LEGEND**

- CL --- CL --- CONSTRUCTION LIMITS
- P --- P --- PROPERTY BOUNDARY
- F --- F --- EXISTING FLOODWAY BOUNDARY
- W --- W --- EXISTING WATERLINE (2020-06-12)
- 740 --- 740 --- EXISTING 10-FOOT CONTOUR
- 700 --- 700 --- EXISTING 2-FOOT CONTOUR
- OE --- OE --- EXISTING OVERHEAD ELECTRIC
- W --- W --- APPROXIMATE LIMITS OF WASTE REMOVAL
- W --- W --- APPROXIMATE LIMITS OF WASTE TO REMAIN
- G --- G --- EXISTING GRAVEL PAVEMENT
- ⊕ --- ⊕ --- EXISTING MONITORING WELL
- ⊙ --- ⊙ --- EXISTING POWER POLE
- 710 --- 710 --- PROPOSED 10-FOOT CONTOUR
- 700 --- 700 --- PROPOSED 2-FOOT CONTOUR
- G --- G --- PROPOSED GRAVEL PAVEMENT
- B --- B --- PROPOSED BITUMINOUS PAVEMENT
- --- --- CELL BOUNDARY
- --- --- PROPOSED GEOMEMBRANE LINER EXTENTS
- SS --- SS --- PROPOSED STORM SEWER
- FM --- FM --- PROPOSED LEACHATE FORCEMAIN
- > --- > --- PROPOSED LEACHATE COLLECTION PIPE
- ⊙ --- ⊙ --- PROPOSED LEACHATE PIPE CLEANOUT
- G --- G --- PROPOSED GAS COLLECTION PIPE
- UE --- UE --- PROPOSED UNDERGROUND ELECTRIC
- FO --- FO --- PROPOSED UNDERGROUND FIBER OPTIC
- X --- X --- PROPOSED CHAIN LINK FENCE
- ⊙ --- ⊙ --- PROPOSED STORM SEWER MANHOLE
- ⊕ --- ⊕ --- PROPOSED ELECTRIC HANDHOLE

**1 PLAN: LANDFILL EMBANKMENT ROAD: STA 60+00 TO 70+36**



- NOTES:**
1. PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 5 FOR CLARITY.
  2. PLACE COMMON FILL PER SPECIFICATION 31 23 00.
  3. PLACE GRAVEL SURFACING PER SHEET C-088 AND SPECIFICATION 32 10 00.
  4. INSTALL STORM SEWER PIPING AND MANHOLES PER SHEETS C-160 TO C-169 AND SPECIFICATIONS 33 05 28 AND 33 40 00.
  5. MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
  6. INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108 AND SPECIFICATIONS 33 05 28 AND 33 90 01.
  7. TO OPTIMIZE CLARITY, UNDERGROUND ELECTRIC AND FIBER OPTIC NOT SHOWN IN PROFILE.
  8. SEE SHEET C-090 FOR EMBANKMENT ROAD ALIGNMENT LINE TABLES.

**LEGEND**

- --- EXISTING GROUND
- --- EXISTING BEDROCK
- --- PROPOSED EXCAVATION SURFACE
- --- PROPOSED LANDFILL EMBANKMENT ROAD
- --- PROPOSED STORM SEWER
- --- PROPOSED LEACHATE FORCEMAIN, PROJECTED INTO VIEW

**2 PROFILE: LANDFILL EMBANKMENT ROAD: STA 60+00 TO 70+36**

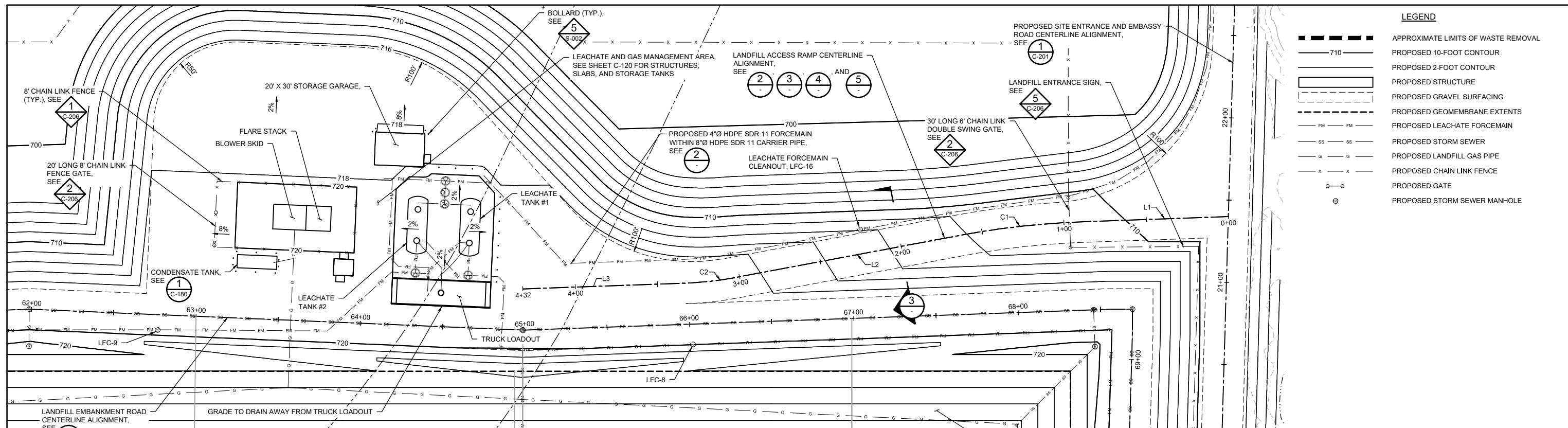
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06/30/2022

CADD USER: JACK.A.METTLACH FILE: M:\DESIGN\23191372\062919137205_LIN_C-086.DWG PLOT SCALE: 1:12 PLOT DATE: 6/29/2022 3:52 PM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID CONSTRUCTION		Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435		Scale AS SHOWN		FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA		BARR PROJECT No. 23/19-1372.00	
		PRINTED NAME SIGNATURE DATE LICENSE #		RELEASED TO/FOR DATE RELEASED		Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Date 04/27/2021		CLIENT PROJECT No.	
NO. BY CHK. APP. DATE REVISION DESCRIPTION		A B C 0 1 2 3		Approved		Drawn AWT		DWG. No. C-086		REV. No. B	

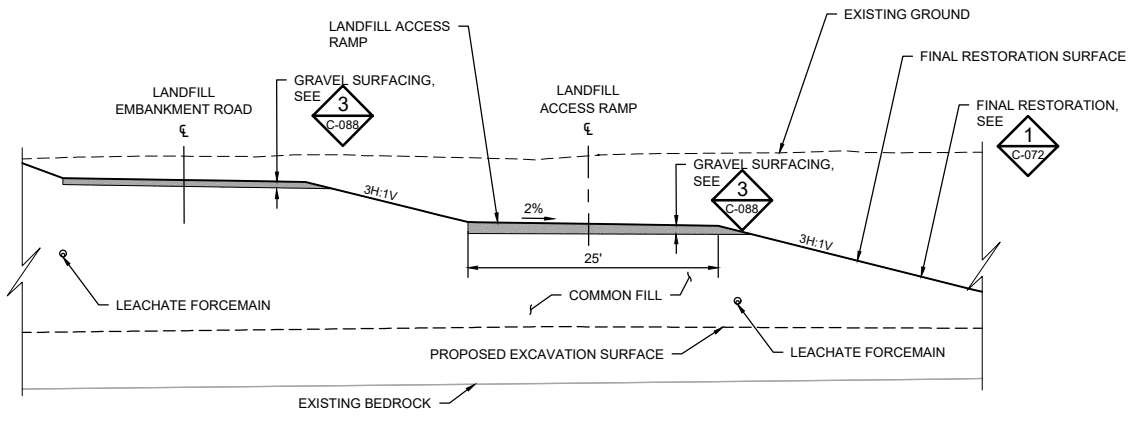
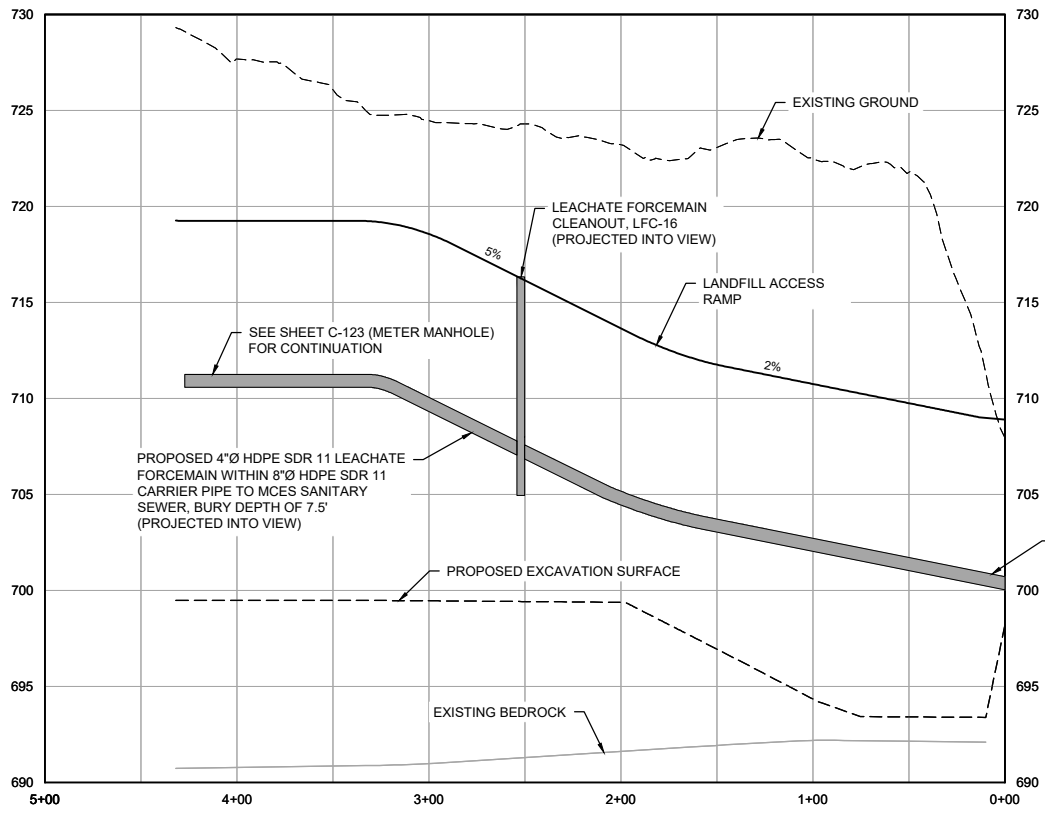


<b>LANDFILL EMBANKMENT ROAD PROFILES STA. 60+00 TO 70+36</b>	
------------------------------------------------------------------	--



**1 PLAN: LANDFILL MANAGEMENT AREA GRADING**

SCALE IN FEET



- NOTES:**
- PROVIDE FENCES AND GATES PER SPECIFICATIONS 32 31 00.
  - MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
  - INSTALL LEACHATE FORCEMAIN, LEACHATE STORAGE TANKS, AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108 AND SPECIFICATIONS 33 05 28 AND 33 90 01.

**LANDFILL ACCESS RAMP LINE DATA**

LINE #	LENGTH	START	END	START STATION	END STATION
L1	88.75'	N 216101.6161 E 506633.6872	N 216190.3118 E 506630.5338	0+00.00	0+88.75
L2	139.46'	N 216264.7393 E 506622.2764	N 216401.8091 E 506596.5618	1+63.71	3+03.17
L3	98.76'	N 216431.5801 E 506593.2589	N 216530.2727 E 506589.7501	3+33.15	4+31.90

**LANDFILL ACCESS RAMP CURVE DATA**

CURVE #	RADIUS	LENGTH	START	END	PI
C1	500.00'	'74.95'	N 216190.3118 E 506630.5338	N 216264.7393 E 506622.2764	N 216227.8356 E 506629.1997
C2	200.00'	'29.98'	N 216401.8091 E 506596.5618	N 216431.5801 E 506593.2589	N 216416.5706 E 506593.7925

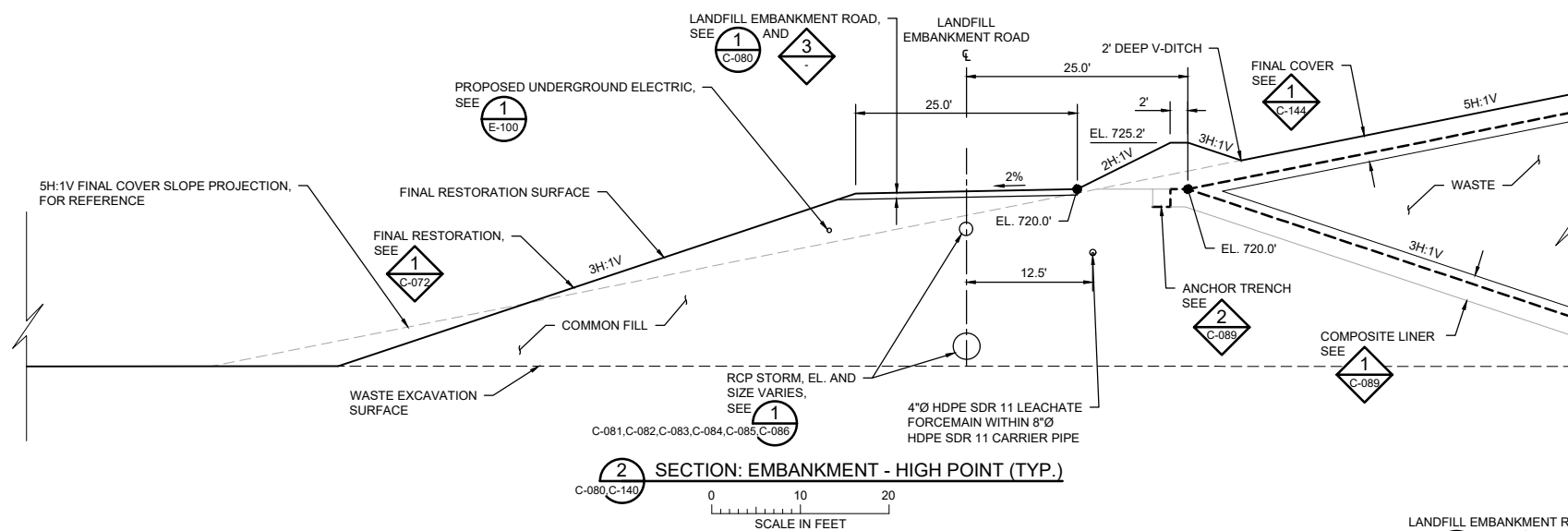
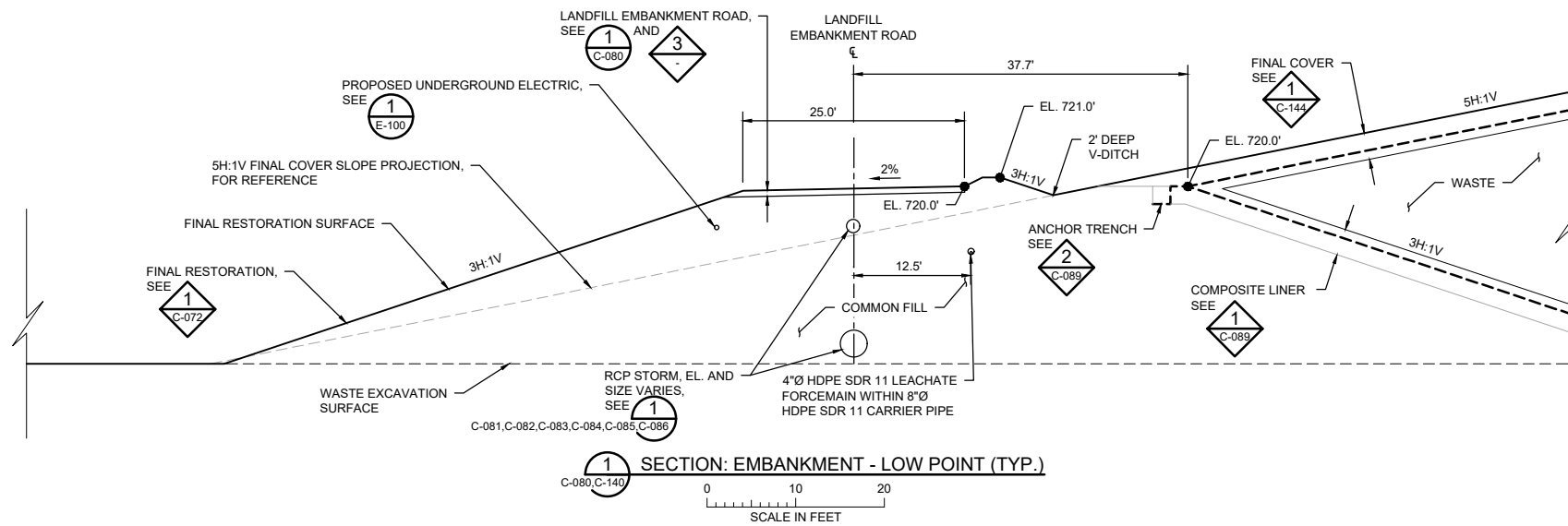
**4 TABLE: LANDFILL ACCESS RAMP ALIGNMENT LINE DATA**

**5 TABLE: LANDFILL ACCESS RAMP ALIGNMENT CURVE DATA**

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PRINTED NAME SIGNATURE DATE	RELEASED TO/FOR DATE RELEASED	A B C 0 1 2 3	Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	MINNESOTA POLLUTION CONTROL AGENCY	LANDFILL MANAGEMENT AREA GRADING PLAN AND PROFILE	CLIENT PROJECT No. DWG. No. C-087 REV. No. B

CADD USER: Jack A. Mettich FILE: M:\DESIGN\23191372\062319137205_LINE_C-087.DWG PLOT SCALE: 1:2 PLOT DATE: 06/29/2022 4:14 PM  
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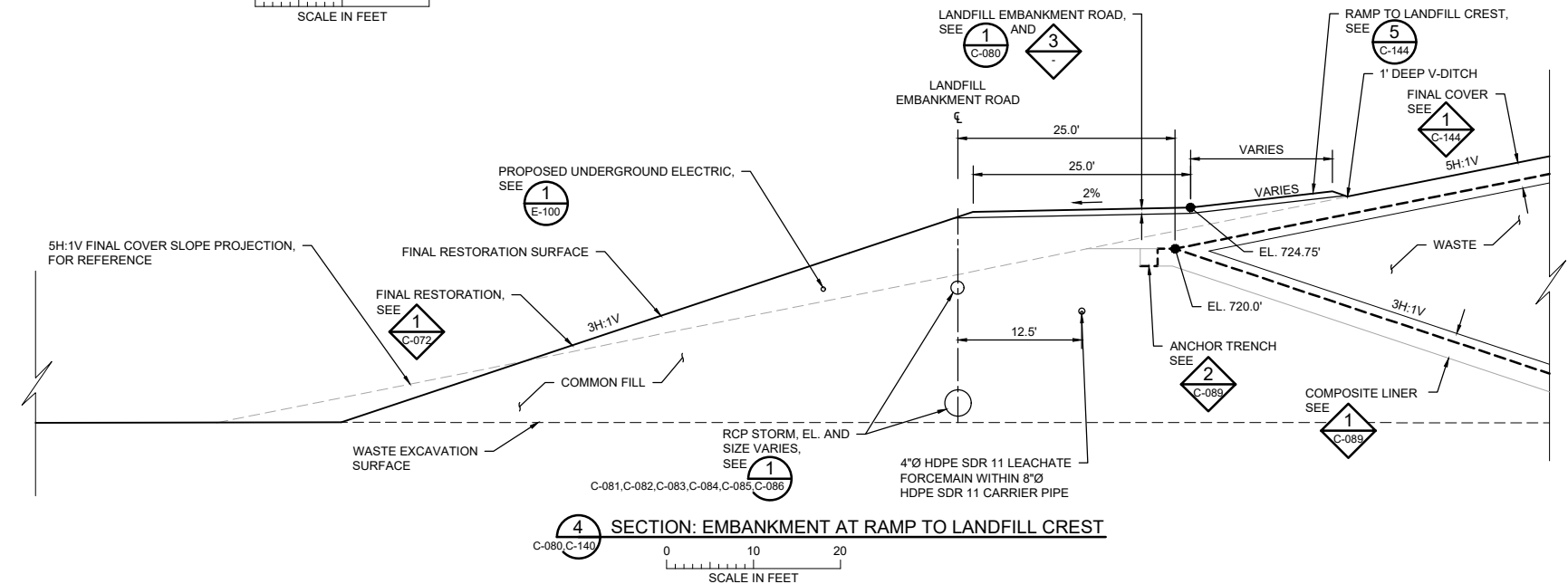
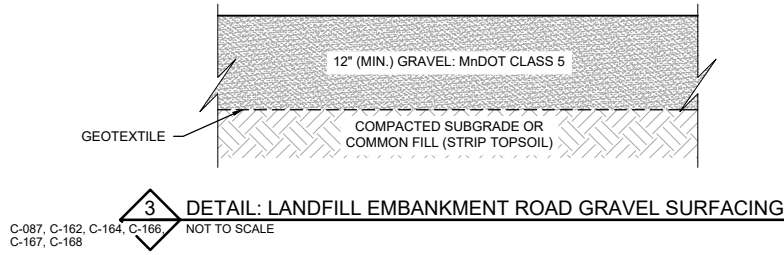


EMBANKMENT V-DITCH HIGH/LOW POINTS	
STATION	POINT TYPE
2+80.00	HIGH POINT
6+88.68	LOW POINT
10+97.37	HIGH POINT
15+21.99	LOW POINT
19+78.41	HIGH POINT
22+78.86	LOW POINT
25+79.31	HIGH POINT
27+95.92	LOW POINT
30+63.49	HIGH POINT
33+20.52	LOW POINT
35+91.75	HIGH POINT
38+52.85	LOW POINT
41+13.96	HIGH POINT
44+12.04	LOW POINT
46+77.47	HIGH POINT
49+05.93	LOW POINT
51+34.40	HIGH POINT
53+22.68	LOW POINT
55+10.95	HIGH POINT
57+10.34	LOW POINT
58+98.20	HIGH POINT
61+98.47	LOW POINT
64+98.74	HIGH POINT
68+69.46	LOW POINT

5 TABLE: EMBANKMENT V-DITCH HIGH/LOW POINTS

NOTES:

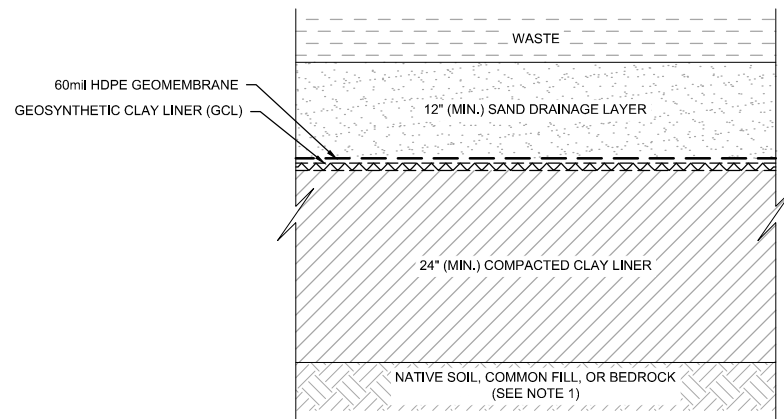
- PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATIONS 31 23 00 AND 31 23 23.
- PLACE GRAVEL SURFACING PER SPECIFICATION 32 10 00.
- INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13.
- SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
- INSTALL STORM SEWER PIPING AND MANHOLES PER SHEETS C-160 TO C-169 AND SPECIFICATIONS 33 05 28 AND 33 40 00.
- MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
- INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108 AND SPECIFICATIONS 33 05 28 AND 33 90 01.
- INSTALL GAS PIPING PER SHEETS C-180 TO C-184 AND SPECIFICATION 33 90 01.



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06/30/2022

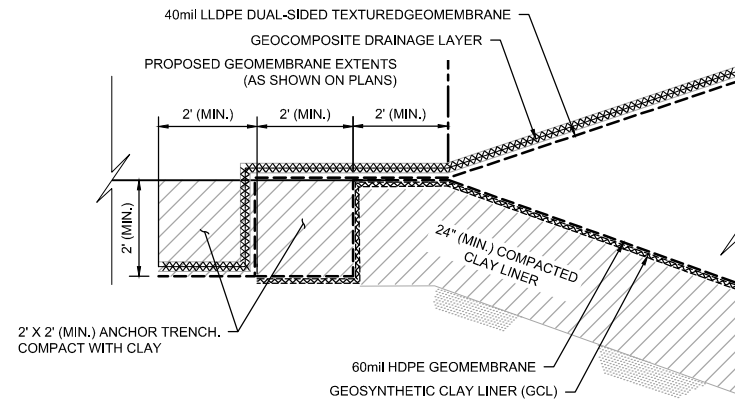
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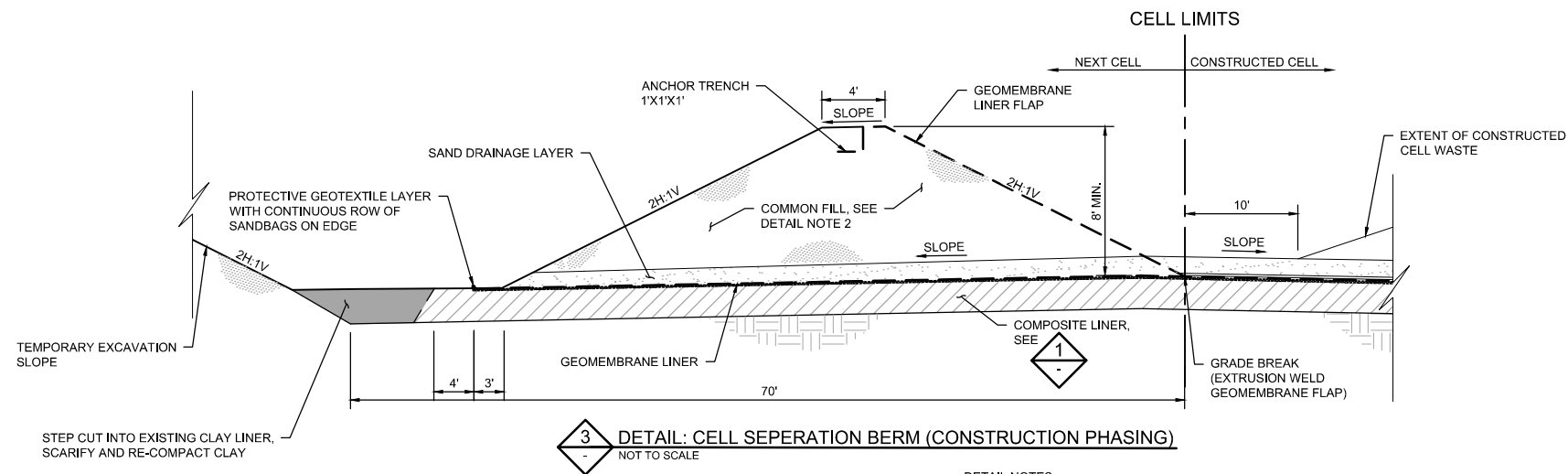


**1** **DETAIL: COMPOSITE LINER**  
C-060, C-063, C-064, C-065, C-080, C-088, C-089, C-105, C-106, C-107, C-167 NOT TO SCALE

- DETAIL NOTES:
1. PEAT AND ANY OTHER ORGANICS TO BE REMOVED AND REPLACED WITH COMMON FILL OR COMPACTED CLAY.



**2** **DETAIL: ANCHOR TRENCH**  
C-088, C-107, C-142 NOT TO SCALE



**3** **DETAIL: CELL SEPERATION BERM (CONSTRUCTION PHASING)**  
NOT TO SCALE

- DETAIL NOTES:
1. LOCATION AND TIMING OF CELL SEPERATION BERM DEPENDENT ON CONTRACTOR'S CONSTRUCTION SCHEDULE AND PROGRESS. LOCATION AND TIMING OF CELL SEPERATION BERM TO BE DETERMINED IN FIELD BY ENGINEER AND CONTRACTOR.
  2. CELL SEPERATION BERM TO BE REMOVED UPON COMPLETION OF NEXT CELL.

- NOTES:
1. PLACE COMMON FILL PER SPECIFICATION 31 23 00.
  2. PLACE COMPACTED CLAY LINER AND SAND DRAINAGE LAYER PER SPECIFICATIONS 31 23 23.
  3. INSTALL GEOMEMBRANE PER SPECIFICATION 31 05 19.16.
  4. INSTALL GEOSYNTHETIC CLAY LINER (GCL) PER SPECIFICATION 31 05 19.23.

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06/30/2022

CADD USER: Zach L. Nelson FILE: M:\DESIGN\23191372\05\23191372\05\LINE_C-088.DWG PLOT SCALE: 1:2 PLOT DATE: 6/29/2022 1:02 PM  
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EMBANKMENT ROAD LINE DATA					
LINE #	LENGTH	START	END	START STATION	END STATION
L1	280.00'	N 216164.3709 E 506411.1406	N 216172.5838 E 506131.2638	0+00.00	2+80.00
L2	408.69'	N 216172.5838 E 506131.2638	N 216159.8638 E 505722.7764	2+80.00	6+88.68
L3	408.69'	N 216159.8638 E 505722.7764	N 216172.5838 E 505314.2889	6+88.68	10+97.37
L4	419.24'	N 216172.5838 E 505314.2889	N 216159.8638 E 504895.2388	10+97.37	15+16.61
L5	5.38'	N 216159.8638 E 504895.2388	N 216159.8638 E 504889.8601	15+16.61	15+21.99
L6	5.38'	N 216159.8638 E 504889.8601	N 216163.7226 E 504886.1132	15+21.99	15+27.37
L7	304.61'	N 216163.7226 E 504886.1132	N 216388.1987 E 504680.2045	15+27.37	18+31.98
L8	1.72'	N 216388.1987 E 504680.2045	N 216389.4310 E 504679.0079	18+31.98	18+33.70
L9	1.72'	N 216389.4310 E 504679.0079	N 216391.1479 E 504679.0079	18+33.70	18+35.41
L10	143.00'	N 216391.1479 E 504679.0079	N 216533.9099 E 504687.2818	18+35.41	19+78.41
L11	300.45'	N 216533.9099 E 504687.2818	N 216834.3327 E 504683.3074	19+78.41	22+78.86
L12	300.45'	N 216834.3327 E 504683.3074	N 217134.0147 E 504704.7622	22+78.86	25+79.31
L13	213.04'	N 217134.0147 E 504704.7622	N 217346.9560 E 504698.2395	25+79.31	27+92.35
L14	3.56'	N 217346.9560 E 504698.2395	N 217350.5177 E 504698.3433	27+92.35	27+95.92
L15	3.56'	N 217350.5177 E 504698.3433	N 217353.5073 E 504700.2823	27+95.92	27+99.48
L16	264.01'	N 217353.5073 E 504700.2823	N 217567.8304 E 504854.4518	27+99.48	30+63.49
L17	257.02'	N 217567.8304 E 504854.4518	N 217790.1260 E 504983.4698	30+63.49	33+20.52
L18	123.85'	N 217790.1260 E 504983.4698	N 217890.7098 E 505055.7379	33+20.52	34+44.37
L19	1.53'	N 217890.7098 E 505055.7379	N 217891.9896 E 505056.5680	34+44.37	34+45.89
L20	1.53'	N 217891.9896 E 505056.5680	N 217892.7814 E 505057.8719	34+45.89	34+47.42
L21	144.33'	N 217892.7814 E 505057.8719	N 217963.0184 E 505183.9553	34+47.42	35+91.75

EMBANKMENT ROAD LINE DATA					
LINE #	LENGTH	START	END	START STATION	END STATION
L22	261.11'	N 217963.0184 E 505183.9553	N 218111.3476 E 505398.8397	35+91.75	38+52.85
L23	261.11'	N 218111.3476 E 505398.8397	N 218238.0612 E 505627.1389	38+52.85	41+13.96
L24	285.59'	N 218238.0612 E 505627.1389	N 218399.3167 E 505862.8518	41+13.96	43+99.56
L25	12.48'	N 218399.3167 E 505862.8518	N 218405.8995 E 505873.4589	43+99.56	44+12.04
L26	12.48'	N 218405.8995 E 505873.4589	N 218395.4189 E 505880.2396	44+12.04	44+24.52
L27	252.95'	N 218395.4189 E 505880.2396	N 218176.4043 E 506006.7870	44+24.52	46+77.47
L28	228.47'	N 218176.4043 E 506006.7870	N 217991.7911 E 506141.3775	46+77.47	49+05.93
L29	228.47'	N 217991.7911 E 506141.3775	N 217793.3589 E 506254.6085	49+05.93	51+34.40
L30	188.28'	N 217793.3589 E 506254.6085	N 217642.5524 E 506367.3269	51+34.40	53+22.68
L31	188.28'	N 217642.5524 E 506367.3269	N 217477.9268 E 506458.6858	53+22.68	55+10.95
L32	195.64'	N 217477.9268 E 506458.6858	N 217320.9273 E 506575.4110	55+10.95	57+06.59
L33	3.76'	N 217320.9273 E 506575.4110	N 217317.7738 E 506577.4512	57+06.59	57+10.34
L34	3.76'	N 217317.7738 E 506577.4512	N 217314.0178 E 506577.4512	57+10.34	57+14.10
L35	184.10'	N 217314.0178 E 506577.4512	N 217130.3583 E 506564.7312	57+14.10	58+98.20
L36	300.27'	N 217130.3583 E 506564.7312	N 216830.3583 E 506577.4512	58+98.20	61+98.47
L37	300.27'	N 216830.3583 E 506577.4512	N 216530.3583 E 506564.7312	61+98.47	64+98.74
L38	358.00'	N 216530.3583 E 506564.7312	N 216172.5838 E 506577.4512	64+98.74	68+56.74
L39	12.72'	N 216172.5838 E 506577.4512	N 216159.8638 E 506577.4512	68+56.74	68+69.46
L40	12.72'	N 216159.8638 E 506577.4512	N 216159.8638 E 506564.7312	68+69.46	68+82.18
L41	153.66'	N 216159.8638 E 506564.7312	N 216164.3709 E 506411.1406	68+82.18	70+35.84

4 TABLE: EMBANKMENT ROAD ALIGNMENT LINE DATA  
C-080

NOTES

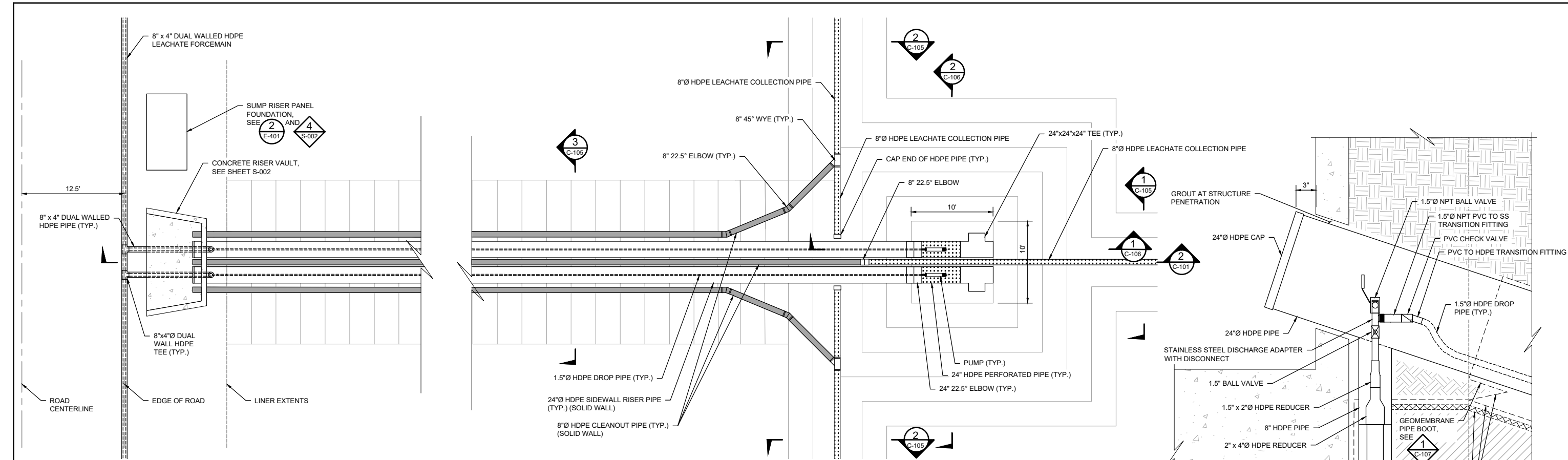
- SEE SHEET C-081 THROUGH C-086 FOR LOCATION IN PLAN VIEW.

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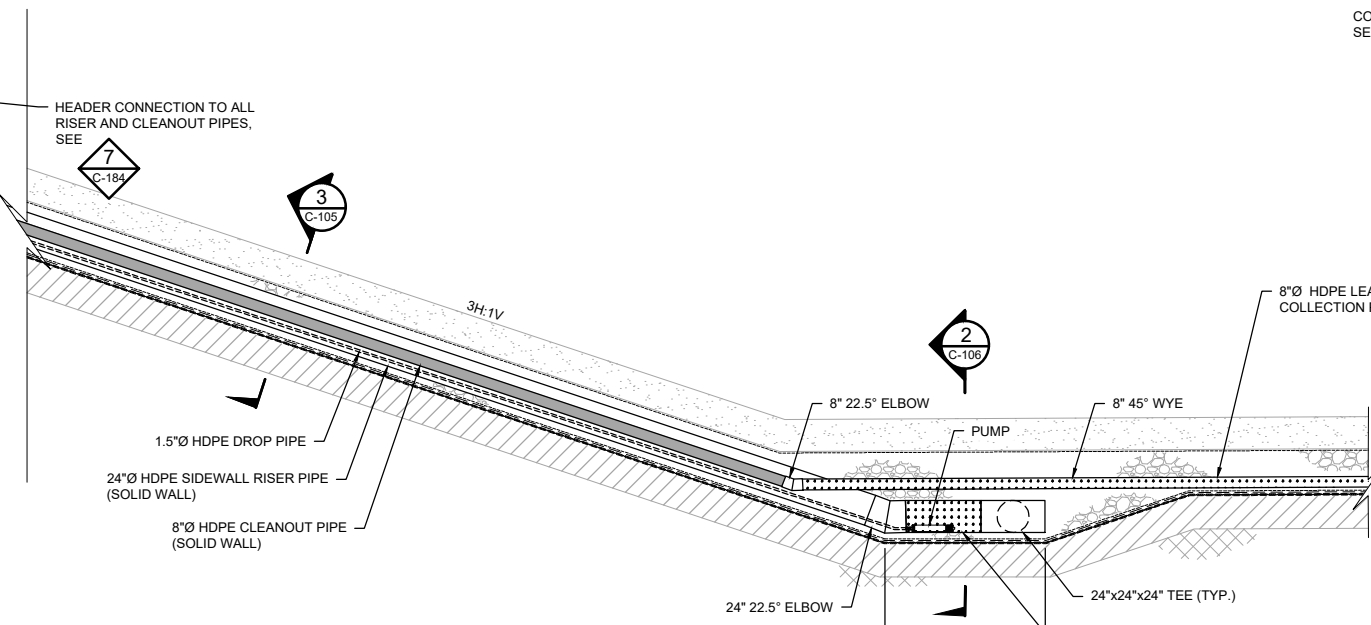
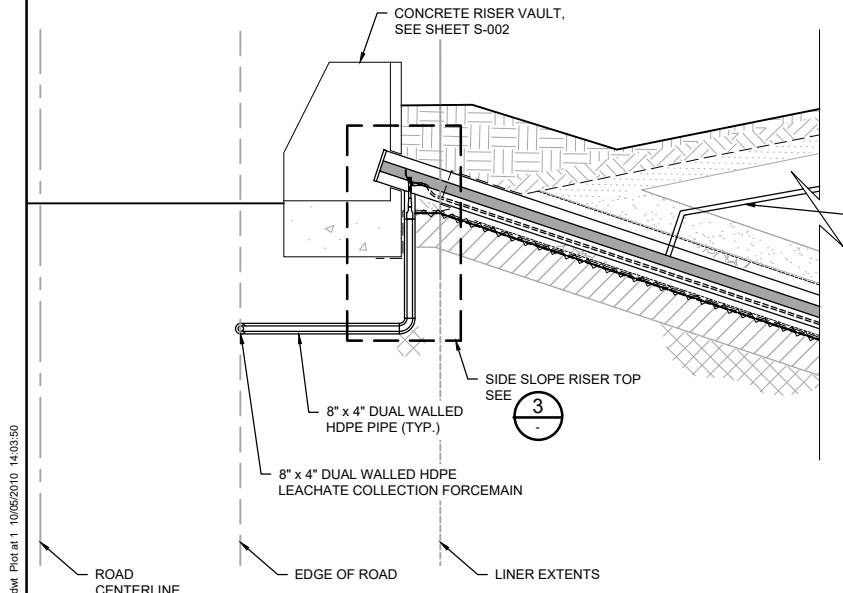
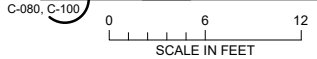
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION								



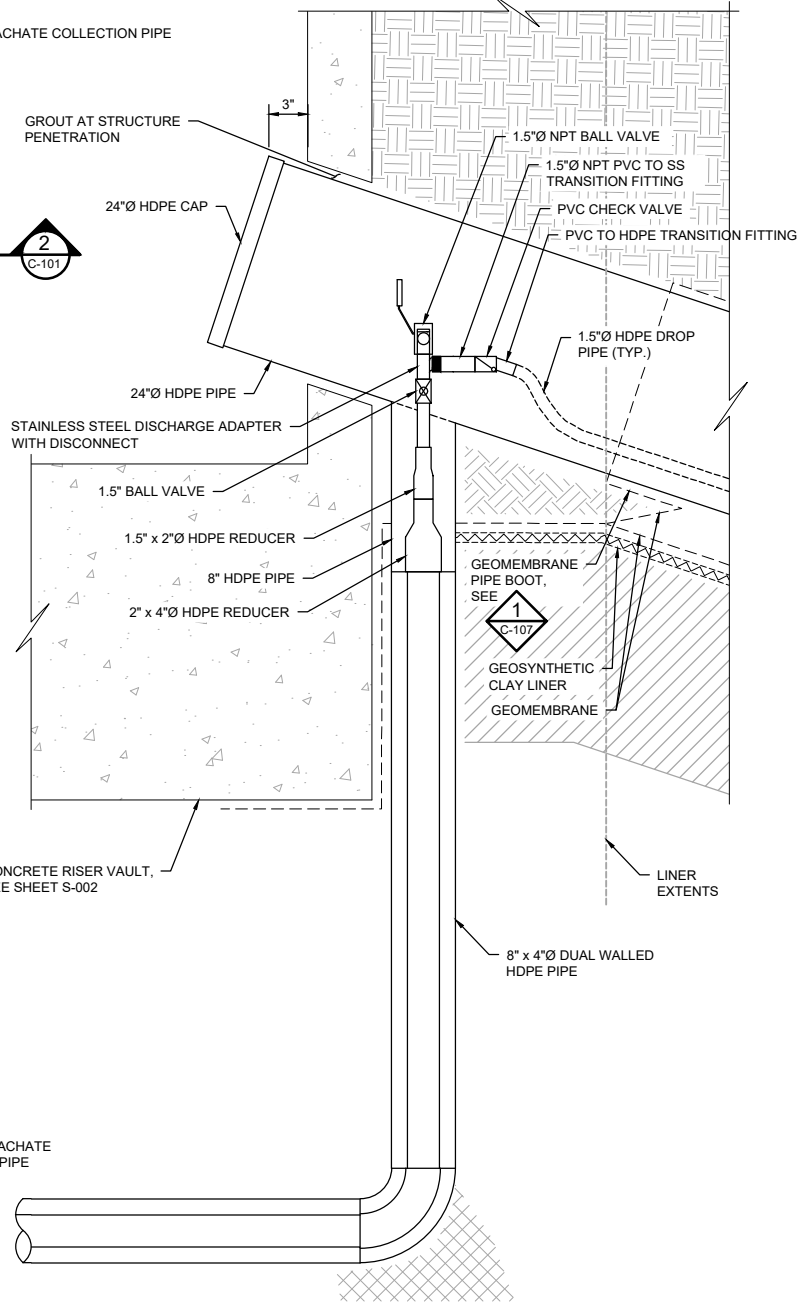
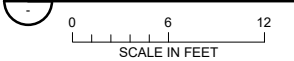
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1 PLAN: LEACHATE COLLECTION SUMP AND SIDESLOPE RISER (TYP.)



2 SECTION: LEACHATE COLLECTION SUMP AND SIDESLOPE RISER (TYP.)



3 SECTION: LEACHATE SIDESLOPE RISER TOP (TYP.)



NOTES

- INSTALL LEACHATE COLLECTION PIPING AND APPURTENANCES PER SECTION 33 90 01.
- INSTALL SIDEWALL RISER PUMP PER SPECIFICATION 43 21 41.
- INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SPECIFICATIONS 33 05 28 AND 33 90 01.

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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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 PRINTED NAME  
 SIGNATURE  
 DATE _____ LICENSE # _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
06/30/2021	06/30/2021		A B C 0 1 2 3	

**BARR**  
 Project Office:  
 BARR ENGINEERING CO.  
 4300 MARKETPOINTE DRIVE  
 Suite 200  
 MINNEAPOLIS, MN 55435  
 Corporate Headquarters:  
 Minneapolis, Minnesota  
 Ph: 1-800-632-2277  
 Fax: (952) 832-2601  
 www.barr.com

Scale	AS SHOWN
Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	

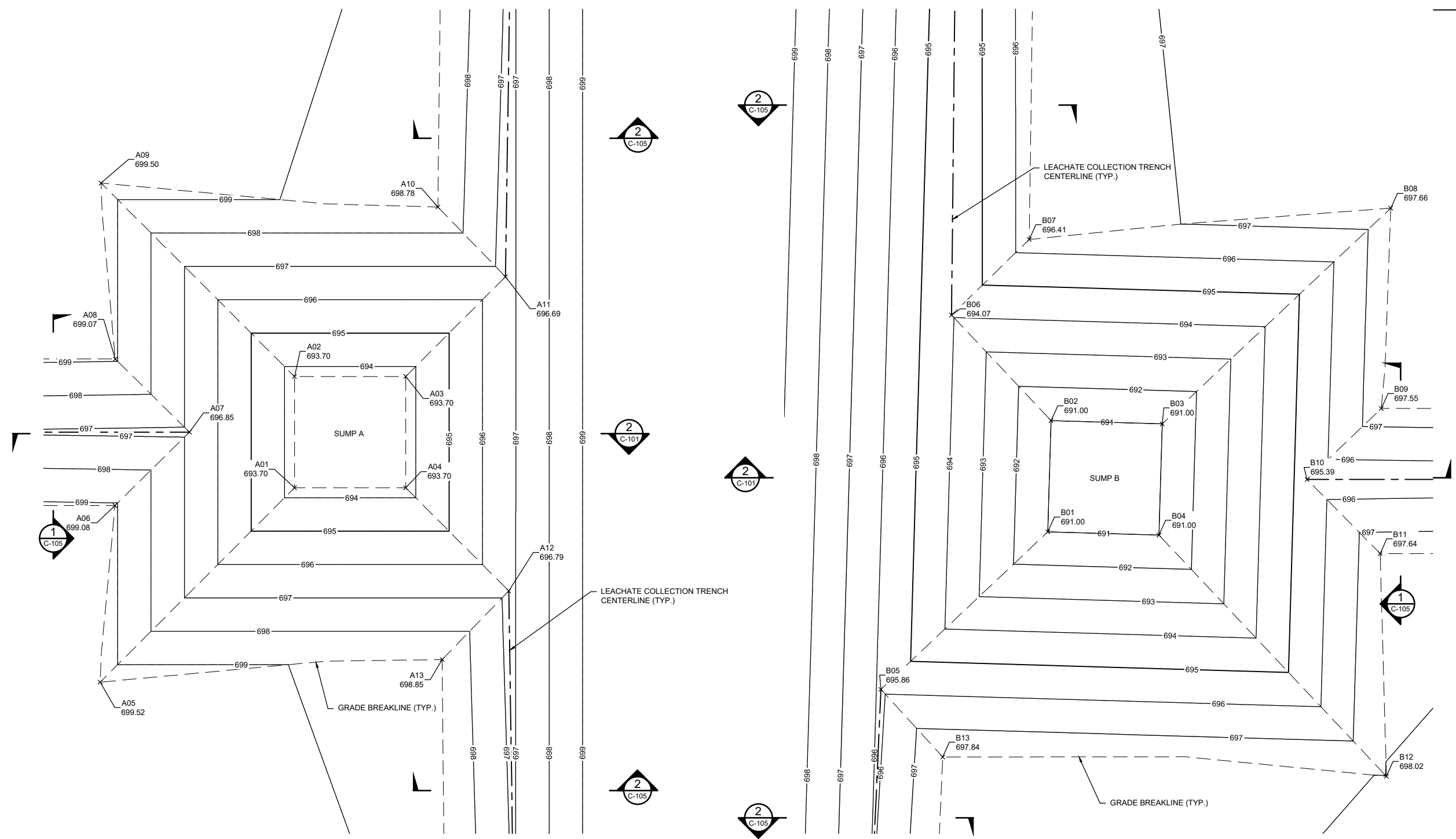


FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA  
 LEACHATE COLLECTION SYSTEM TYPICAL SUMP  
 PLAN AND SECTIONS

BARR PROJECT No. 23/19-1372.00	REV. No. B
CLIENT PROJECT No.	DWG. No. C-101

**LEGEND**

- 695 — PROPOSED 5-FOOT CONTOUR
- 694 — PROPOSED 1-FOOT CONTOUR
- - - GRADE BREAKLINE
- - - LEACHATE COLLECTION TRENCH CENTERLINE
- x SUMP GRADE POINTS



SUMP GRADE POINTS			
DESCRIPTION	NORTHING	EASTING	ELEVATION
A01	216,525.36	506,450.85	693.70
A02	216,535.36	506,450.85	693.70
A03	216,535.36	506,460.85	693.70
A04	216,525.36	506,460.85	693.70
A05	216,507.88	506,433.38	699.52
A06	216,523.76	506,434.71	699.08
A07	216,530.36	506,441.41	696.85
A08	216,536.94	506,434.73	699.07
A09	216,552.75	506,433.46	699.50
A10	216,550.59	506,463.74	698.78
A11	216,544.33	506,469.82	696.69
A12	216,516.09	506,470.12	696.79
A13	216,509.91	506,464.13	698.85
B01	216,525.65	504,799.07	691.00
B02	216,535.65	504,799.36	691.00
B03	216,535.36	504,809.36	691.00
B04	216,525.36	504,809.06	691.00
B05	216,511.49	504,784.06	695.86
B06	216,545.13	504,790.41	694.07
B07	216,551.93	504,797.40	696.41
B08	216,554.74	504,829.91	697.66
B09	216,536.74	504,829.06	697.55
B10	216,530.36	504,822.38	695.39
B11	216,523.70	504,828.95	697.64
B12	216,503.68	504,829.52	698.02
B13	216,505.41	504,789.62	697.84

**NOTES**

- SUMP GRADE POINT ELEVATIONS REPRESENT TOP OF GEOMEMBRANE.

**1 PLAN: LEACHATE COLLECTION SYSTEM - SUMP A**  
 C-080, C-086, C-100  
 SCALE IN FEET

**2 PLAN: LEACHATE COLLECTION SYSTEM - SUMP B**  
 C-080, C-082, C-100  
 SCALE IN FEET

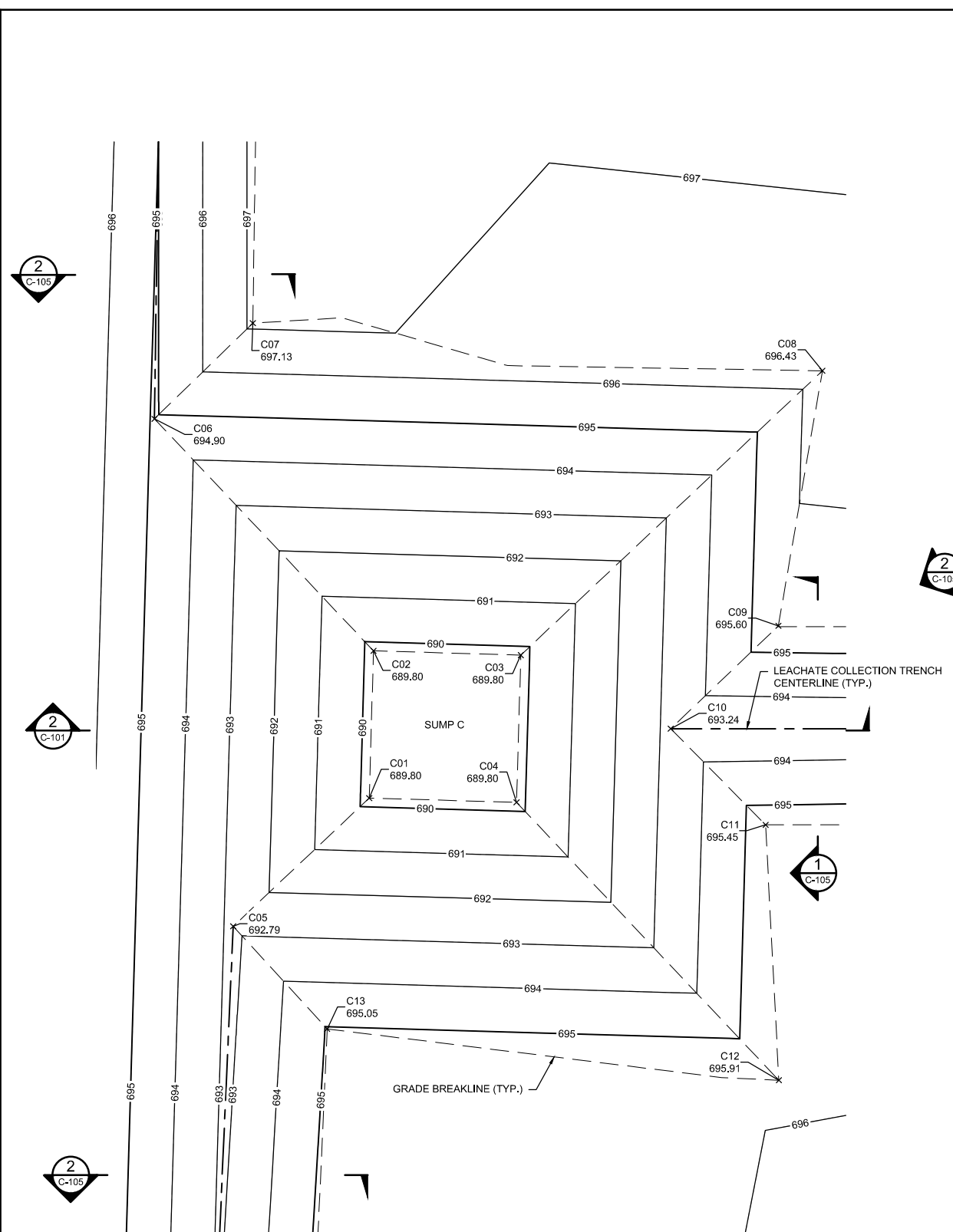
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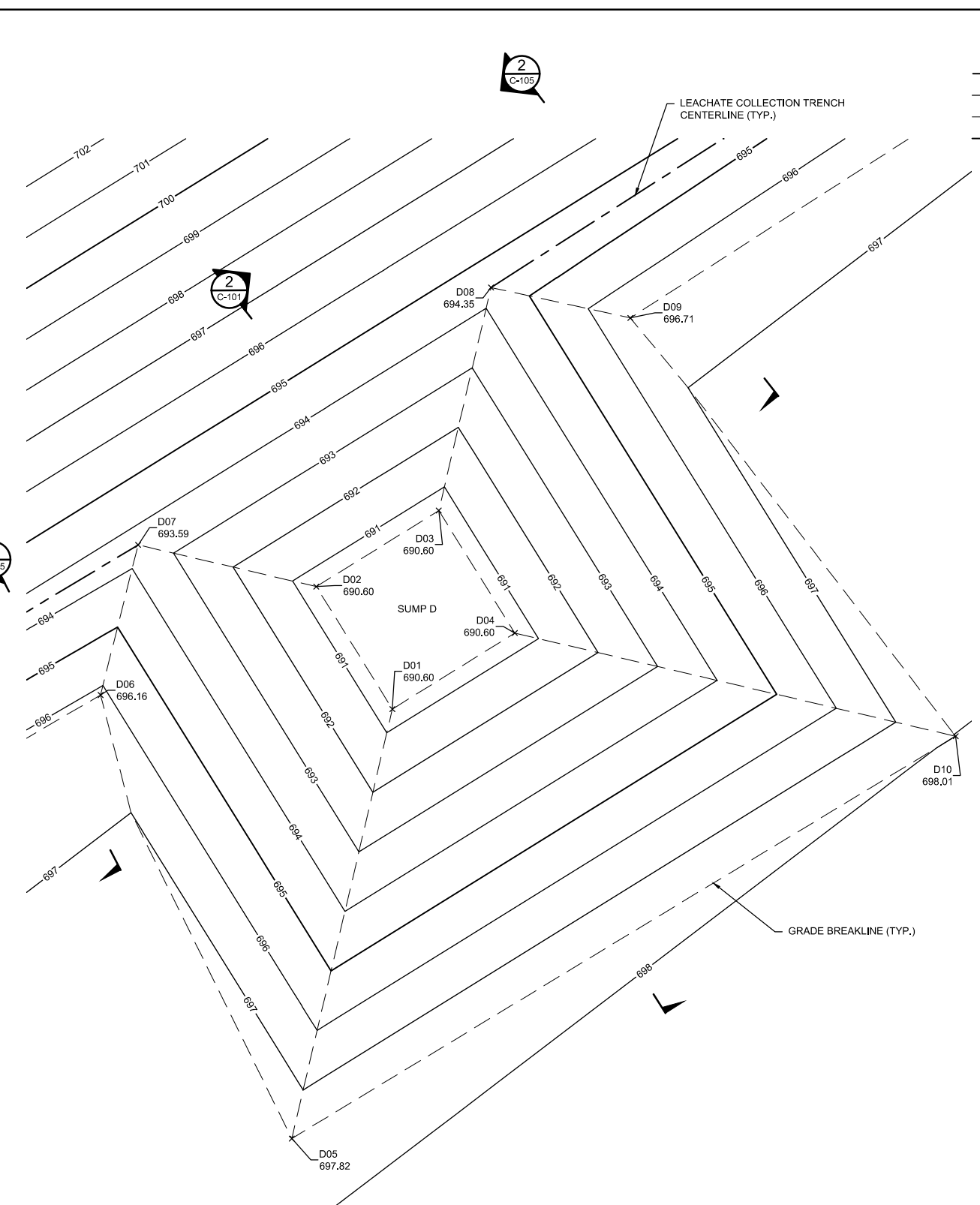
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**LEGEND**

- 695 — PROPOSED 5-FOOT CONTOUR
- 694 — PROPOSED 1-FOOT CONTOUR
- - - GRADE BREAKLINE
- - - LEACHATE COLLECTION TRENCH CENTERLINE
- x SUMP GRADE POINTS



**1 PLAN: LEACHATE COLLECTION SYSTEM - SUMP C**  
 C-080, C-083, C-100  
 SCALE IN FEET



**2 PLAN: LEACHATE COLLECTION SYSTEM - SUMP D**  
 C-080, C-083, C-100  
 SCALE IN FEET

SUMP GRADE POINTS			
DESCRIPTION	NORTHING	EASTING	ELEVATION
C01	217125.65	504,820.15	689.80
C03	217135.36	504,830.43	689.80
C04	217125.36	504,830.14	689.80
C05	217116.95	504,810.92	692.79
C06	217151.40	504,805.58	694.90
C07	217157.89	504,812.25	697.13
C08	217154.66	504,850.90	696.43
C09	217137.34	504,847.91	695.60
C10	217130.36	504,840.61	693.24
C11	217123.83	504,847.04	695.45
C12	217106.49	504,847.94	695.91
C13	217109.98	504,817.30	695.05
D01	217855.72	505,244.66	690.60
D02	217864.22	505,239.39	690.60
D03	217869.49	505,247.88	690.60
D04	217860.99	505,253.16	690.60
D05	217825.91	505,237.68	697.82
D06	217856.69	505,224.41	696.16
D07	217867.11	505,227.02	693.59
D08	217884.97	505,251.51	694.35
D09	217882.86	505,261.17	696.71
D10	217853.83	505,283.75	698.01

**NOTES**  
 1. SUMP GRADE POINT ELEVATIONS REPRESENT TOP OF GEOMEMBRANE.

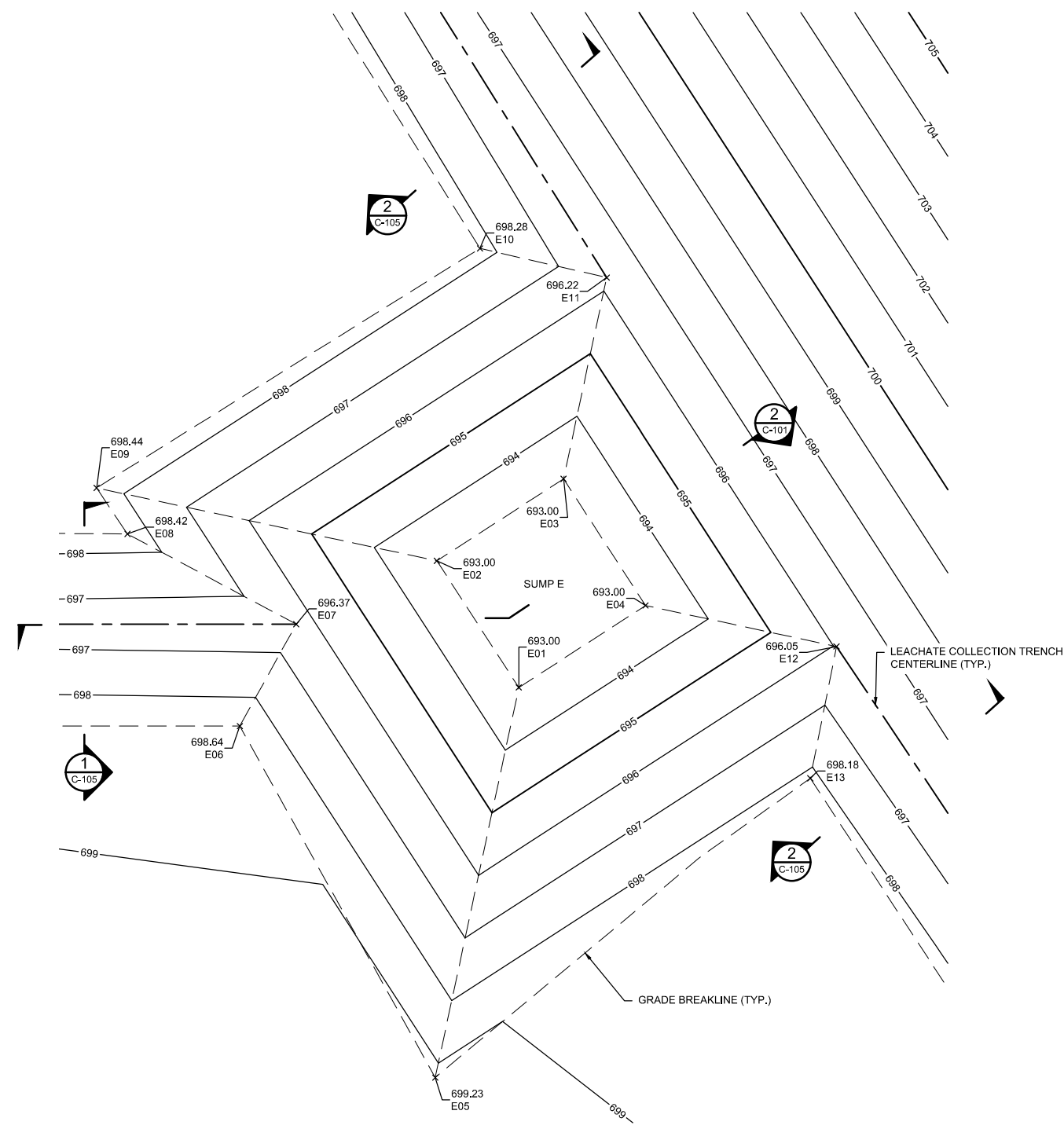
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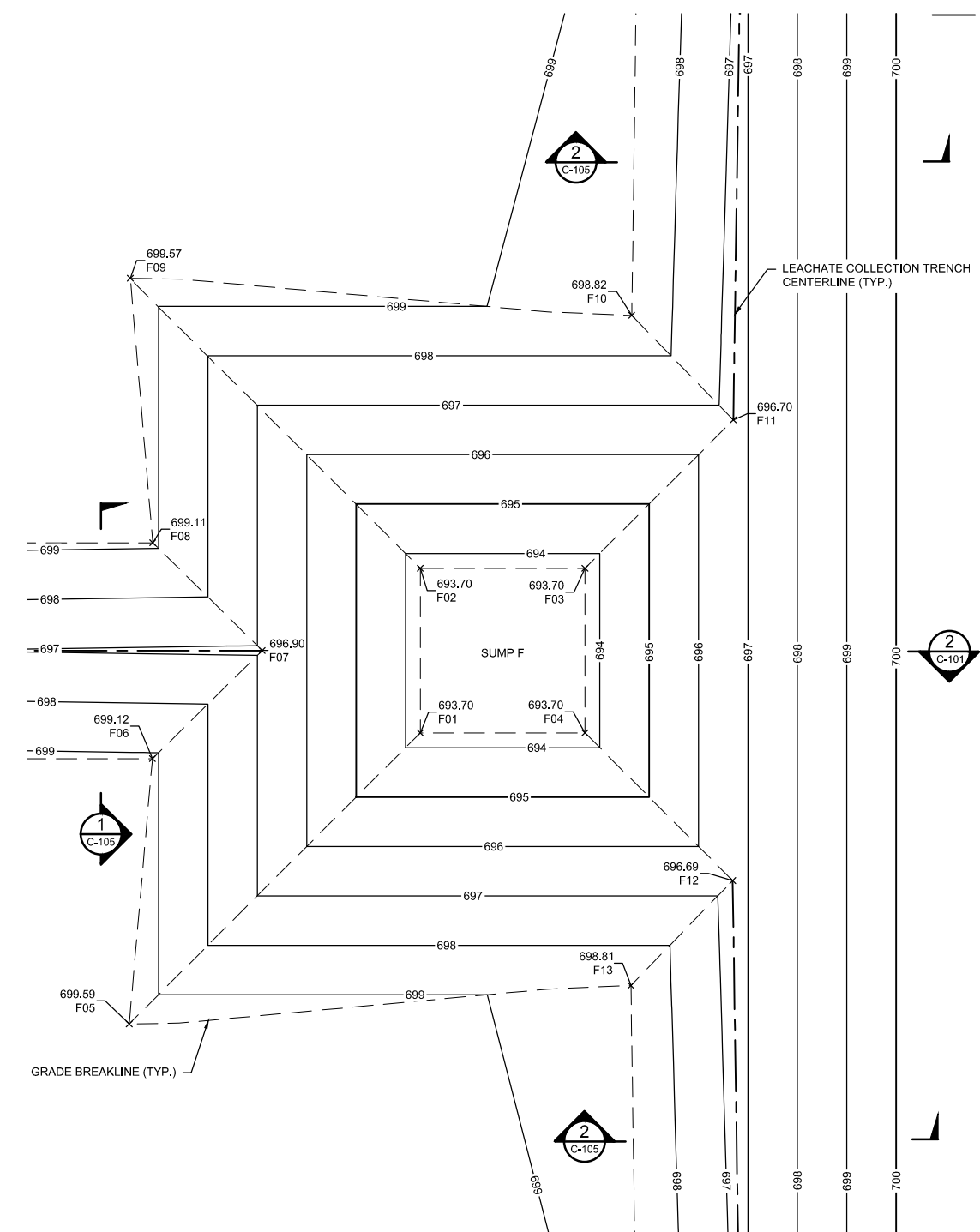
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		RELEASED TO/FOR A B C 0 1 2 3		DATE RELEASED						DWG. No. C-103		REV. No. B	

**LEGEND**

- 695 — PROPOSED 5-FOOT CONTOUR
- 694 — PROPOSED 1-FOOT CONTOUR
- - - GRADE BREAKLINE
- - - LEACHATE COLLECTION TRENCH CENTERLINE
- x SUMP GRADE POINTS



**1 PLAN: LEACHATE COLLECTION SYSTEM - SUMP E**  
 C-080, C-085, C-100  
 SCALE IN FEET



**2 PLAN: LEACHATE COLLECTION SYSTEM - SUMP F**  
 C-080, C-085, C-100  
 SCALE IN FEET

SUMP GRADE POINTS			
DESCRIPTION	NORTHING	EASTING	ELEVATION
E01	217726.16	506,159.95	693.00
E02	217734.56	506,154.52	693.00
E03	217739.99	506,162.91	693.00
E04	217731.59	506,168.34	693.00
E05	217700.31	506,154.41	699.23
E06	217723.60	506,141.46	698.64
E07	217730.36	506,145.20	696.37
E08	217736.34	506,134.01	698.42
E09	217739.39	506,131.97	698.44
E10	217755.27	506,157.37	698.28
E11	217753.33	506,165.77	696.22
E12	217728.88	506,181.00	696.05
E13	217720.14	506,179.26	698.18
F01	217125.36	506,450.85	693.70
F02	217135.36	506,450.85	693.70
F03	217135.36	506,460.85	693.70
F04	217125.36	506,460.85	693.70
F05	217107.68	506,433.17	699.59
F06	217123.79	506,434.59	699.12
F07	217130.36	506,441.25	696.90
F08	217136.91	506,434.61	699.11
F09	217152.97	506,433.24	699.57
F10	217150.72	506,463.70	698.82
F11	217144.37	506,469.86	696.70
F12	217116.39	506,469.82	696.69
F13	217110.02	506,463.64	698.81

**NOTES**

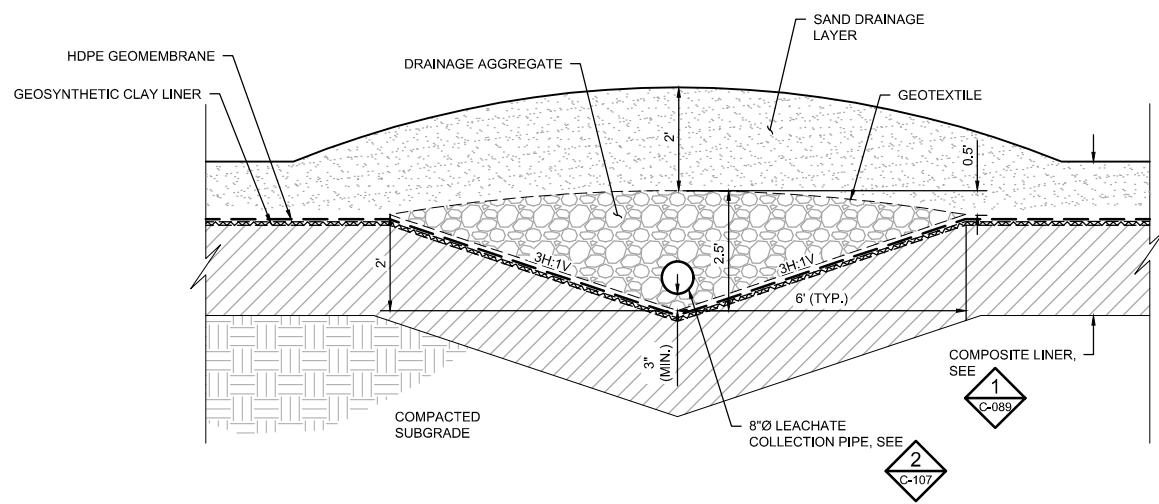
1. SUMP GRADE POINT ELEVATIONS REPRESENT TOP OF GEOMEMBRANE.

100% DRAFT  
 NOT FOR CONSTRUCTION  
 06/30/2022

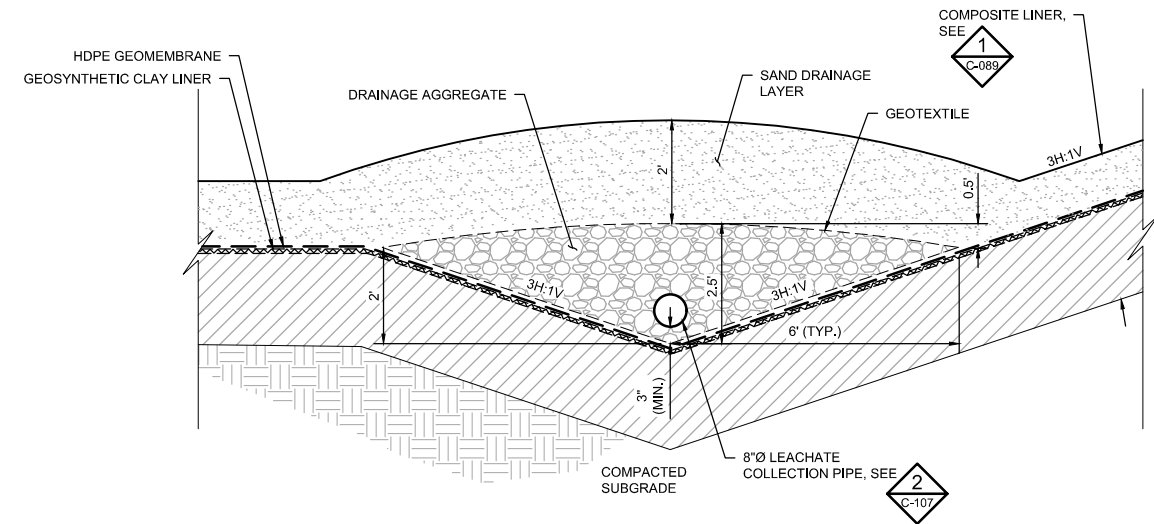
<p>NO. BY CHK. APP. DATE REVISION DESCRIPTION</p>	<p>I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.</p> <p>PRINTED NAME: _____          SIGNATURE: _____          DATE: _____ LICENSE # _____</p>	<p>CLIENT: BARR ENGINEERING CO.          BID: 2319-1372-00          CONSTRUCTION</p> <p>RELEASED TO/FOR: _____          DATE RELEASED: _____</p>	<p><b>BARR</b>          Project Office:          BARR ENGINEERING CO.          4300 MARKETPOINTE DRIVE          Suite 200          MINNEAPOLIS, MN 55435</p> <p>Corporate Headquarters:          Minneapolis, Minnesota          Ph: 1-800-632-2277          Fax: (952) 832-2601          www.barr.com</p>	<p>Scale: AS SHOWN          Date: 06/12/2020          Drawn: ADB2          Checked: BDP          Designed: BARR          Approved: _____</p>	<p><b>MINNESOTA POLLUTION CONTROL AGENCY</b></p>	<p>FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE          BURNSVILLE, MINNESOTA</p> <p>LEACHATE COLLECTION SYSTEM SUMP          PLANS 3 OF 3</p>	<p>BARR PROJECT No.          2319-1372-00</p> <p>CLIENT PROJECT No.          _____</p> <p>DWG. No.          C-104</p> <p>REV. No.          B</p>
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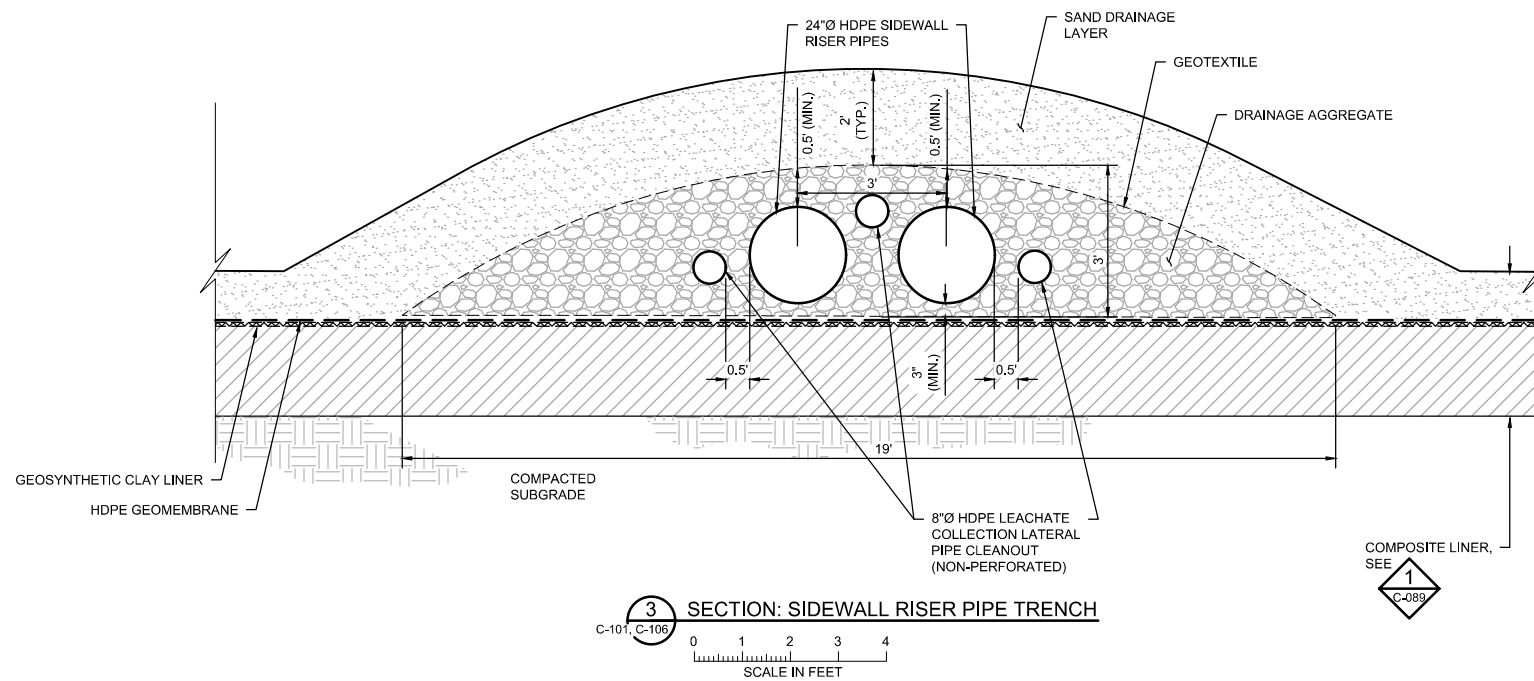
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1 SECTION: LEACHATE COLLECTION TRENCH - FLOOR  
 C-100, C-101, C-102, C-103, C-104, C-105  
 0 1 2 3 4  
 SCALE IN FEET



2 SECTION: LEACHATE COLLECTION TRENCH - PERIMETER  
 C-100, C-101, C-102, C-103, C-104  
 0 1 2 3 4  
 SCALE IN FEET



3 SECTION: SIDEWALL RISER PIPE TRENCH  
 C-101, C-106  
 0 1 2 3 4  
 SCALE IN FEET

**NOTES**

1. INSTALL LEACHATE COLLECTION PIPING AND APPURTENANCES PER SPECIFICATION 33 90 01.
2. PLACE SAND DRAINAGE LAYER AND COARSE AGGREGATE PER SPECIFICATION 31 23 23.
3. INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13.

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 SIGNATURE: _____  
 DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED

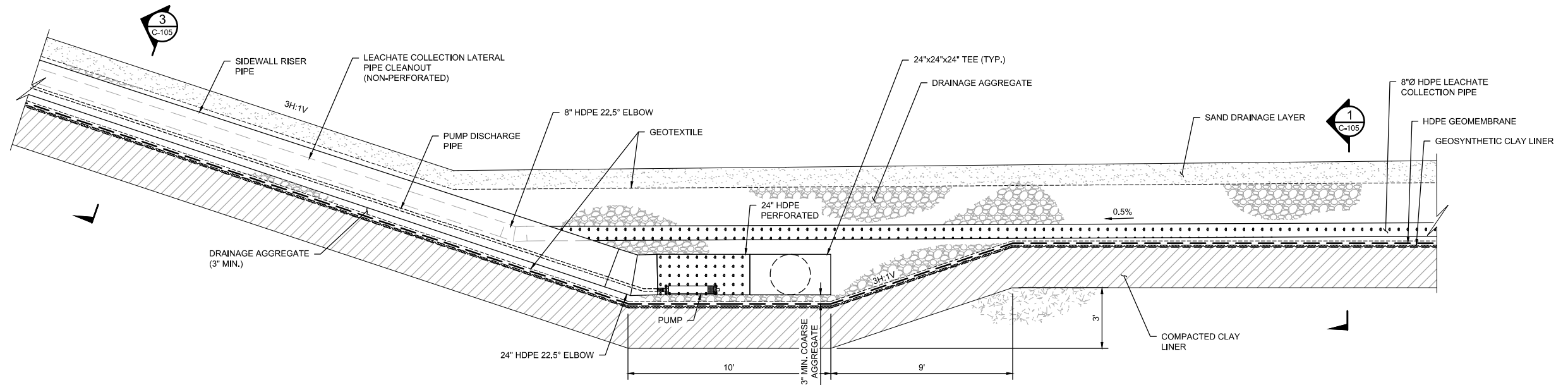
**BARR** Project Office:  
 BARR ENGINEERING CO.  
 4300 MARKETPOINTE DRIVE  
 Suite 200  
 MINNEAPOLIS, MN 55435  
 Corporate Headquarters:  
 Minneapolis, Minnesota  
 Ph: 1-800-632-2277  
 Fax: (952) 832-2601  
 www.barr.com

Scale	AS SHOWN
Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-

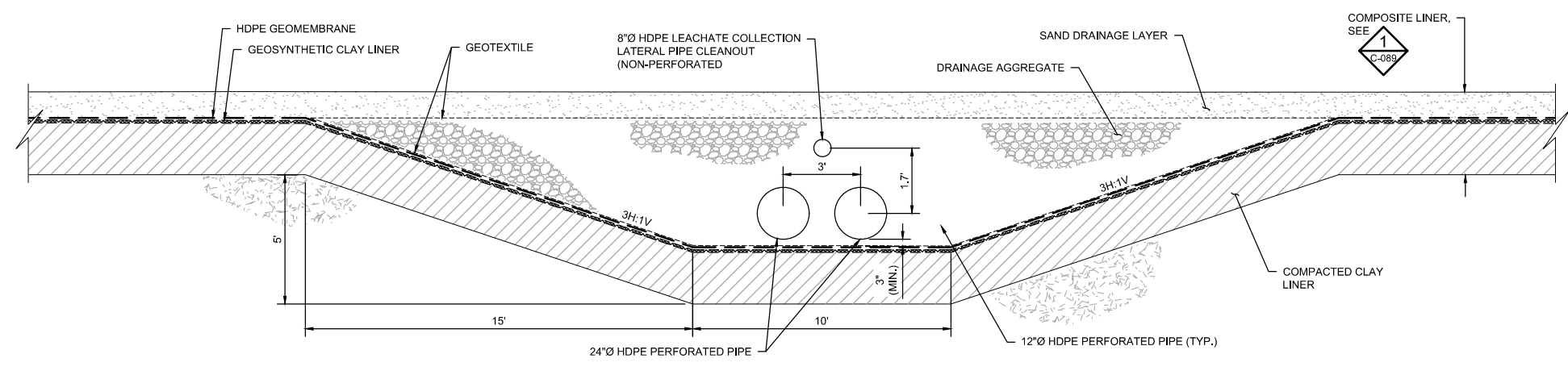


FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA  
 LEACHATE COLLECTION SYSTEM  
 SECTIONS

BARR PROJECT No.	
23/19-1372.00	
CLIENT PROJECT No.	
DWG. No.	REV. No.
C-105	B



1 SECTION: LEACHATE COLLECTION SUMP AND SIDE SLOPE RISER (TYP.)  
 SCALE IN FEET



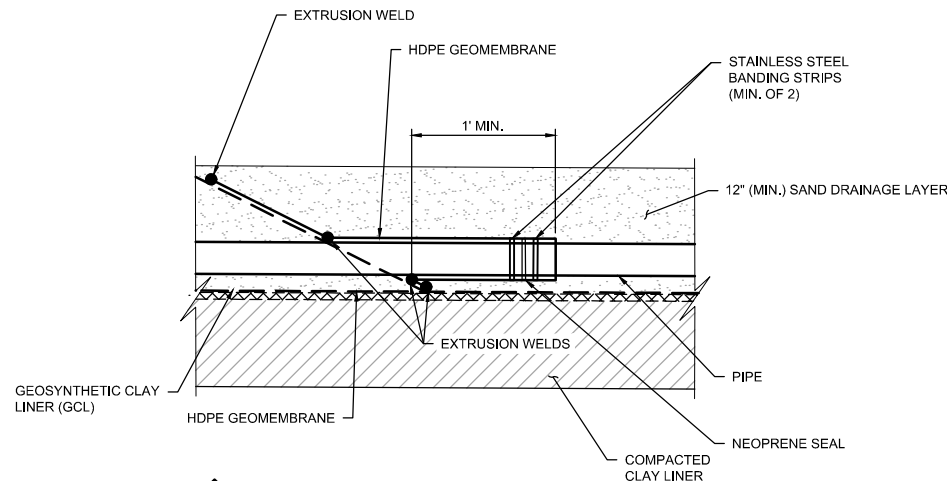
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 SCALE IN FEET

- NOTES**
1. INSTALL LEACHATE COLLECTION PIPING AND APPURTENANCES PER SPECIFICATION 33 90 01.
  2. PLACE SAND DRAINAGE LAYER AND COARSE AGGREGATE PER SPECIFICATION 31 23 23.
  3. INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13
  4. INSTALL SIDEWALL RISER PUMP PER SPECIFICATION 43 21 40.

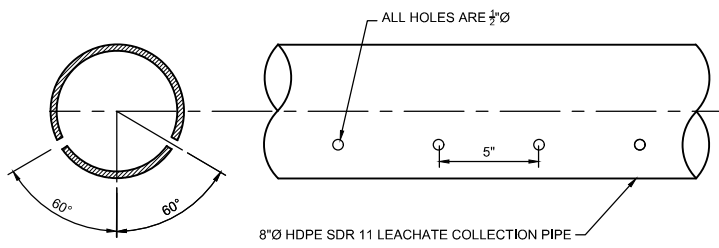
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 06/30/2022

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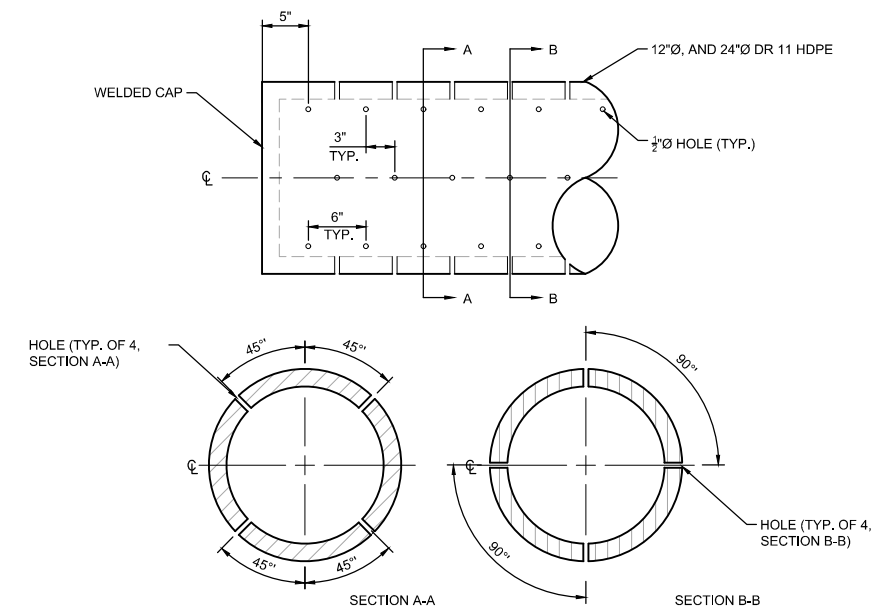
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID CONSTRUCTION	06/30/2021 06/30/2022				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435	Scale Date Drawn Checked Designed Approved	AS SHOWN 06/12/2020 ADB2 BDP BARR -		FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA	BARR PROJECT No. 23/19-1372.00
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	RELEASED TO/FOR	A B C 0 1 2 3	DATE RELEASED	Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		MINNESOTA POLLUTION CONTROL AGENCY	LEACHATE COLLECTION SYSTEM SUMP SECTIONS
											DWG. No. C-106	REV. No. B



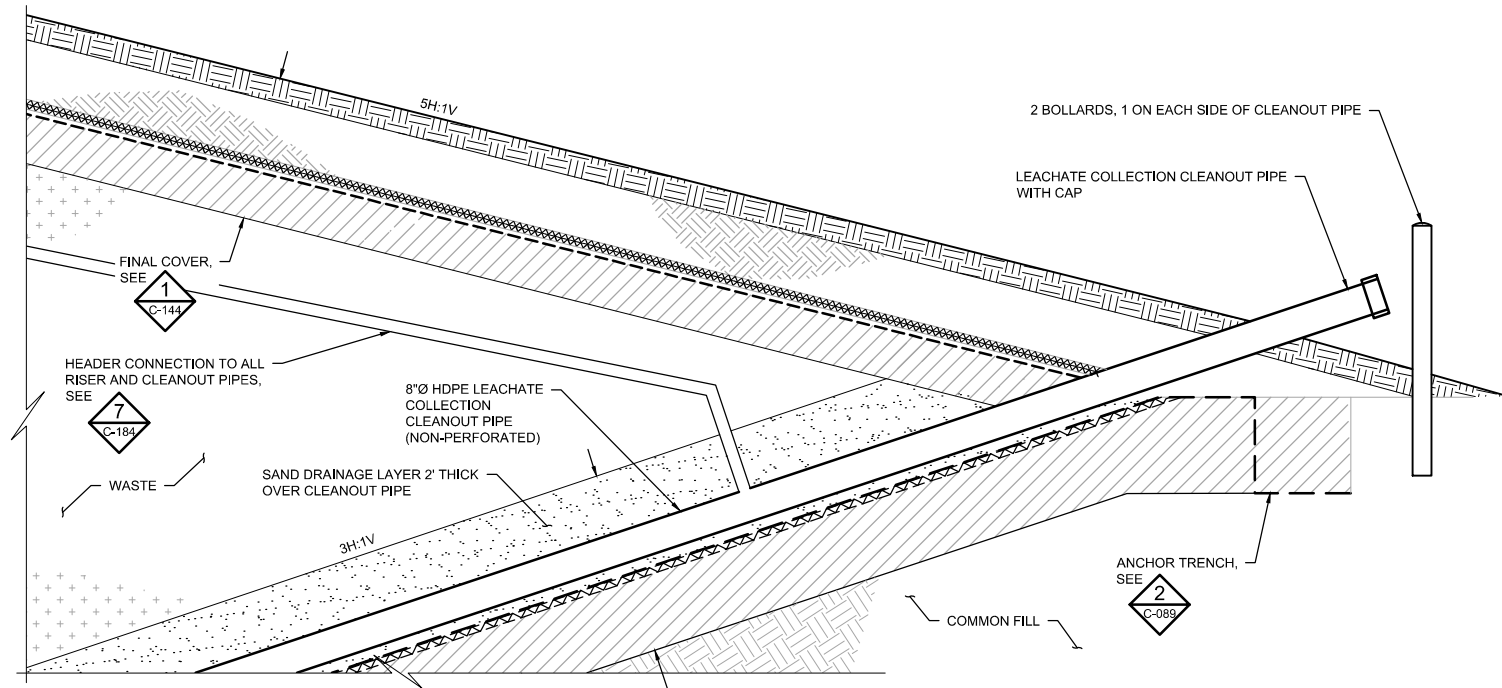
**1** DETAIL: GEOMEMBRANE PIPE BOOT  
C-101 NOT TO SCALE



**2** DETAIL: LEACHATE COLLECTION PIPE PERFORATION  
C-105 NOT TO SCALE



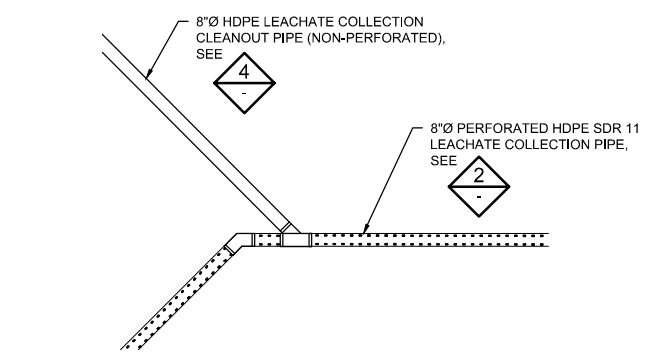
**3** DETAIL: SUMP PIPE PERFORATION  
C-106 NOT TO SCALE



**4** DETAIL: LEACHATE COLLECTION PIPE CLEANOUT (TYP.)  
C-100 NOT TO SCALE

STATION	DETAIL	NUMBER OF CLEANOUTS
16+55	DETAIL 4 & 6 ON SHEET C-107	1
19+79	SHEET C-101	3 (SUMP B)
21+76	DETAIL 4 ON SHEET C-107	1
23+78	DETAIL 4 ON SHEET C-107	1
25+80	SHEET C-101	3 (SUMP C)
28+43	DETAIL 4 ON SHEET C-107	1
30+82	DETAIL 4 ON SHEET C-107	1
33+23	DETAIL 4 ON SHEET C-107	1
35+92	SHEET C-101	2 (SUMP D)
36+92	DETAIL 4 ON SHEET C-107	1
40+66	DETAIL 4 & 6 ON SHEET C-107	1
46+71	DETAIL 4 & 6 ON SHEET C-107	1
49+11	DETAIL 4 ON SHEET C-107	1
51+35	SHEET C-101	3 (SUMP E)
53+88	DETAIL 4 ON SHEET C-107	1
56+27	DETAIL 4 ON SHEET C-107	1
58+99	SHEET C-101	3 (SUMP F)
60+98	DETAIL 4 ON SHEET C-107	1
63+00	DETAIL 4 ON SHEET C-107	1
64+99	SHEET C-101	3 (SUMP A)
66+99	DETAIL 4 ON SHEET C-107	1

**5** TABLE: LEACHATE COLLECTION PIPE CLEANOUT SCHEDULE



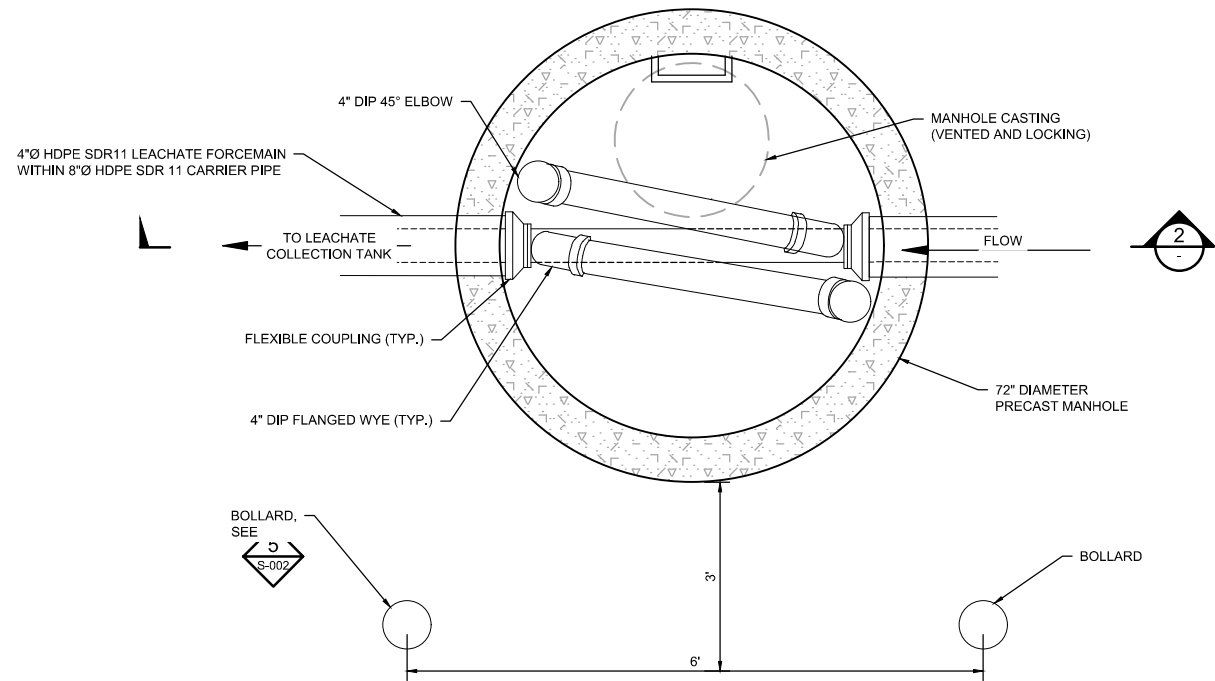
**6** DETAIL: LEACHATE COLLECTION PIPE CLEANOUT (TYP.)  
C-100 NOT TO SCALE

- NOTES:**
- INSTALL LEACHATE COLLECTION PIPING AND APPURTENANCES PER SPECIFICATION 33 90 01.
  - PLACE SAND DRAINAGE LAYER AND COARSE AGGREGATE PER SPECIFICATION 31 23 23.
  - INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13.
  - INSTALL GEOMEMBRANE PER SPECIFICATION 31 05 19.16.

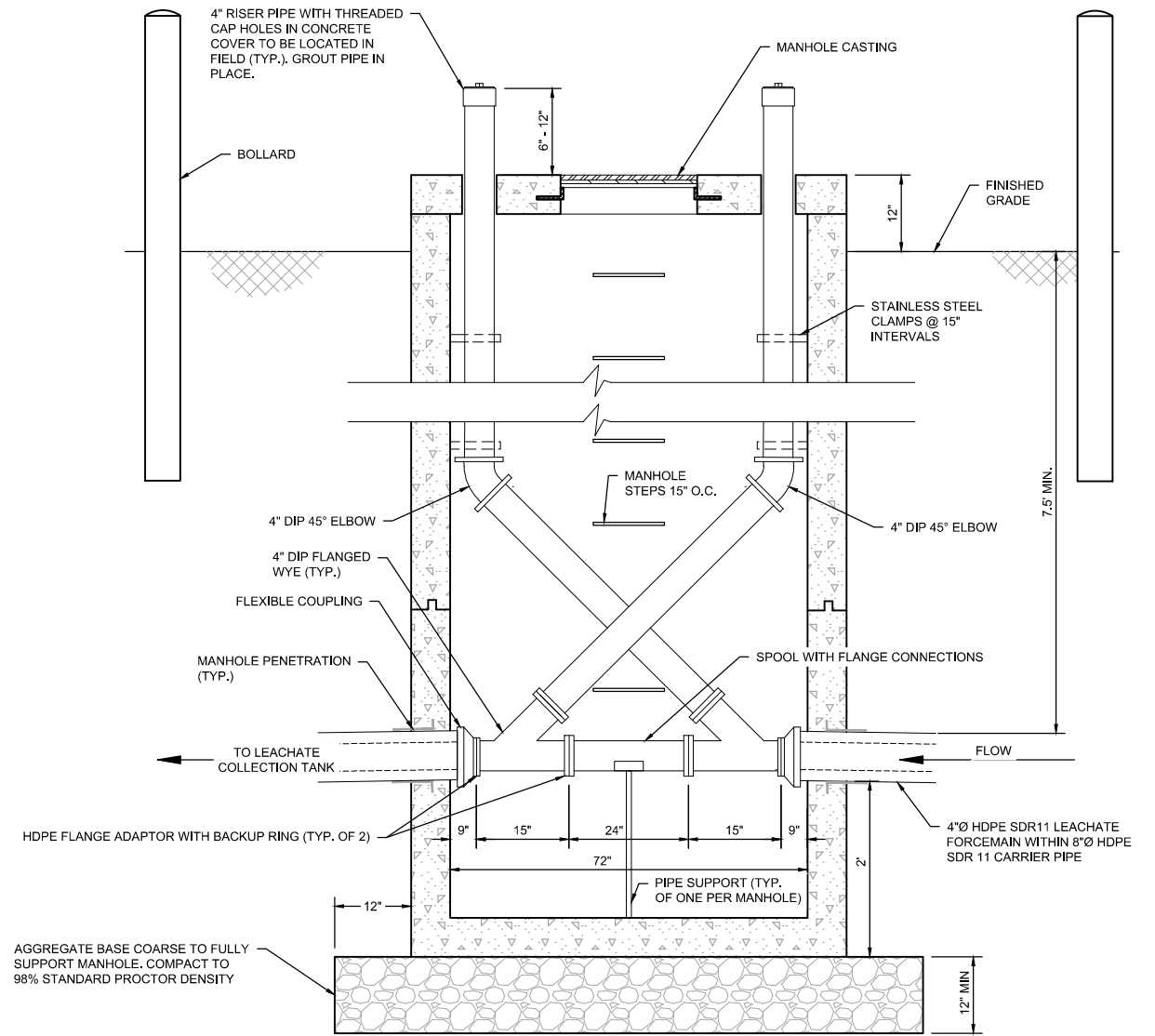
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NOT FOR CONSTRUCTION  
06/30/2022

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		I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT: <b>BARR ENGINEERING CO.</b> 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435		Scale: AS SHOWN Date: 06/12/2020 Drawn: ADB2 Checked: BDP Designed: BARR Approved:		 <b>MINNESOTA POLLUTION CONTROL AGENCY</b>		FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA LEACHATE COLLECTION SYSTEM DETAILS		BARR PROJECT No. 23/19-1372.00 CLIENT PROJECT No. DWG. No. C-107 REV. No. B		
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	A	B	C	0	1	2	3		



**1** **DETAIL: LEACHATE TRANSFER PIPE CLEANOUT MANHOLE (TYP.)**  
NOT TO SCALE



**2** **SECTION: LEACHATE TRANSFER PIPE CLEANOUT MANHOLE (TYP.)**  
NOT TO SCALE

STRUCTURE ID	ALIGNMENT	STATION	PLAN VIEW
LFC-1	LANDFILL ACCESS AND EMBANKMENT	22+63	SHEET C-100
LFC-2	LANDFILL ACCESS AND EMBANKMENT	18+65	SHEET C-100
LFC-3	LANDFILL ACCESS AND EMBANKMENT	14+43	SHEET C-100
LFC-4	LANDFILL ACCESS AND EMBANKMENT	10+45	SHEET C-100
LFC-5	LANDFILL ACCESS AND EMBANKMENT	6+44	SHEET C-100
LFC-6	LANDFILL ACCESS AND EMBANKMENT	3+90	SHEET C-100
LFC-7	LANDFILL ACCESS AND EMBANKMENT	70+27	SHEET C-100
LFC-8	LANDFILL ACCESS AND EMBANKMENT	66+02	SHEETS C-087 AND C-100
LFC-9	LANDFILL ACCESS AND EMBANKMENT	62+77	SHEETS C-087, C-100, AND C-120
LFC-10	LANDFILL ACCESS AND EMBANKMENT	58+78	SHEET C-100
LFC-11	LANDFILL ACCESS AND EMBANKMENT	54+71	SHEET C-100
LFC-12	LANDFILL ACCESS AND EMBANKMENT	50+71	SHEET C-100
LFC-13	LANDFILL ACCESS AND EMBANKMENT	46+77	SHEET C-100
LFC-14	LANDFILL ACCESS AND EMBANKMENT	42+67	SHEET C-100
LFC-15	LANDFILL ACCESS AND EMBANKMENT	38+83	SHEET C-100
LFC-16	LANDFILL ACCESS RAMP	2+23	SHEET C-087 AND C-100
LFC-17	SITE ENTRANCE AND QUARRY ACCESS ROADWAY	23+80	SHEETS C-100 AND C-201
LFC-18	SITE ENTRANCE AND QUARRY ACCESS ROADWAY	27+49	SHEETS C-100 AND C-200
LFC-19	SITE ENTRANCE AND QUARRY ACCESS ROADWAY	31+49	SHEET C-200
LFC-20	SITE ENTRANCE AND QUARRY ACCESS ROADWAY	35+27	SHEET C-200
LFC-21	SITE ENTRANCE AND QUARRY ACCESS ROADWAY	39+25	SHEET C-200

**3** **TABLE: LEACHATE FORCEMAIN CLEANOUT STRUCTURE SCHEDULE**

**NOTES**

1. MANHOLE BARREL SECTIONS TO CONFORM TO ASTM C-478. BASE TO BE CAST MONOLITHICALLY W/ BARREL SECTION
2. LOWER 4" OF MANHOLE INTERIOR AND BASE TO BE EPOXY COATED
3. ALL PIPING TO BE FULLY SUPPORTED AND LABELED
4. FOR CLEANOUTS ALONG MCES FORCEMAIN, RISER PIPES SHALL TERMINATE AT TOP SLAB. TOP SLAB SHALL BE AT PROPOSED GRADE.
5. INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SPECIFICATIONS 33 05 28 AND 33 90 01.

100% DRAFT  
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06/30/2022

CADD USER: Zach L Nelson FILE: MDESIGN\2019\1372\0503181372\LINE_C-108.DWG PLOT SCALE: 1:2 PLOT DATE: 6/29/2022 3:02 PM

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SIGNATURE: _____  
DATE: _____ LICENSE # _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
BARR ENGINEERING CO.			A B C 0 1 2 3	

**BARR**  
Corporate Headquarters:  
Minneapolis, Minnesota  
Ph: 1-800-632-2277

Project Office:  
**BARR ENGINEERING CO.**  
4300 MARKETPOINTE DRIVE  
Suite 200  
MINNEAPOLIS, MN 55435  
Ph: 1-800-632-2277  
Fax: (952) 832-2601  
www.barr.com

Scale	AS SHOWN
Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-

**m**  
**MINNESOTA POLLUTION CONTROL AGENCY**

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

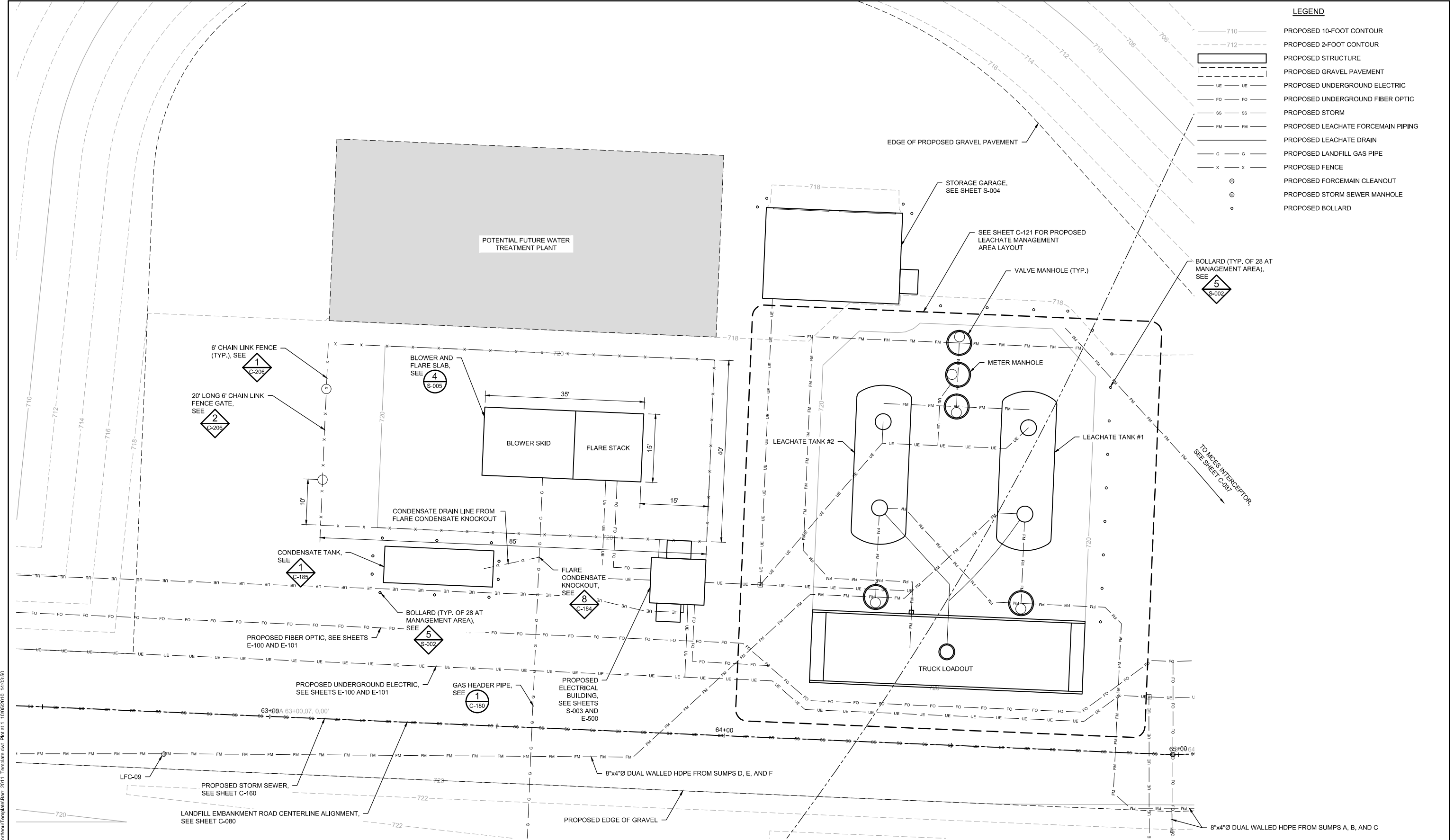
LEACHATE COLLECTION SYSTEM CLEANOUT  
SECTION AND DETAIL

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-108
REV. No.	B



**LEGEND**

- 710— PROPOSED 10-FOOT CONTOUR
- - -712- - - PROPOSED 2-FOOT CONTOUR
- [ ] PROPOSED STRUCTURE
- [ ] PROPOSED GRAVEL PAVEMENT
- UE — UE — PROPOSED UNDERGROUND ELECTRIC
- FO — FO — PROPOSED UNDERGROUND FIBER OPTIC
- SS — SS — PROPOSED STORM
- FM — FM — PROPOSED LEACHATE FORCEMAIN PIPING
- G — G — PROPOSED LEACHATE DRAIN
- x — x — PROPOSED LANDFILL GAS PIPE
- PROPOSED FENCE
- ⊙ PROPOSED FORCEMAIN CLEANOUT
- ⊙ PROPOSED STORM SEWER MANHOLE
- PROPOSED BOLLARD



**1 PLAN: LEACHATE LOADOUT FACILITY**

0 10 20  
SCALE IN FEET

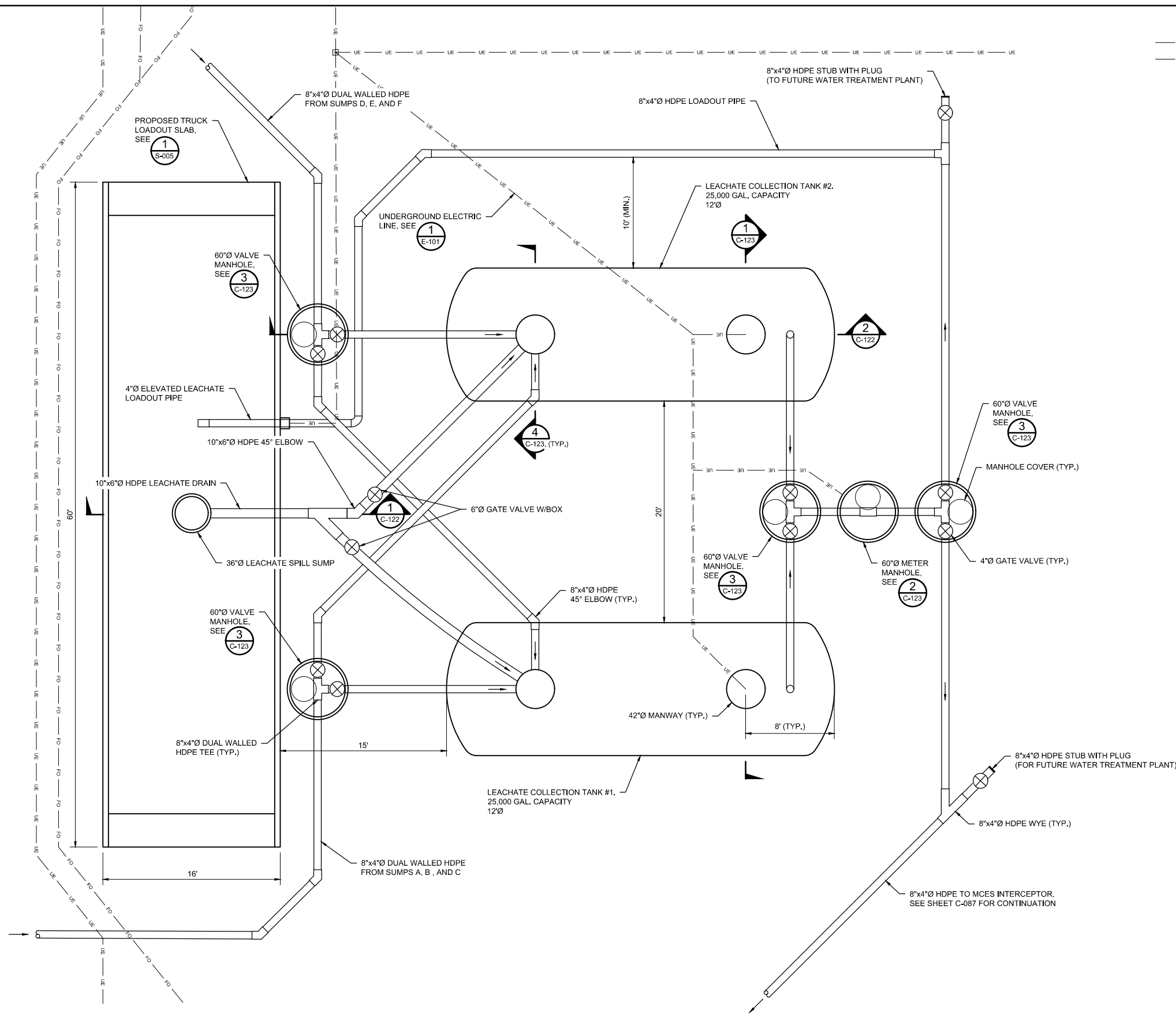
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06/30/2022

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		I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID CONSTRUCTION		06/30/2021 06/30/2022				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435		Scale: AS SHOWN Date: 02/11/2020 Drawn: AWT Checked: BDP Designed: BARR Approved:		FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA		BARR PROJECT No. 23/19-1372.00	
		PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE #: _____		RELEASED TO/FOR: _____		DATE RELEASED: _____				LEACHATE AND GAS MANAGEMENT AREA PLAN		CLIENT PROJECT No.		DWG. No. C-120		REV. No. B	

**LEGEND**

- UE — UE — PROPOSED UNDERGROUND ELECTRIC
- FO — FO — PROPOSED BURIED FIBER OPTIC
- ⊗ PROPOSED GATE VALVE WITH VALVE BOX



1 PLAN: LOADOUT AND LEACHATE TANK

0 5 10  
SCALE IN FEET

100% DRAFT  
NOT FOR CONSTRUCTION  
06/30/2022

CADD USER: Zach A. Nelson FILE: M:\DESIGN\23191372\05\2319137205_LINE_C-121.DWG PLOT SCALE: 1:2 PLOT DATE: 6/29/2022 2:40 PM  
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PRINTED NAME: _____  
 SIGNATURE: _____  
 DATE: _____ LICENSE #: _____

CLIENT	6/30/2021	6/30/2022							
BID									
CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

**BARR** Project Office:  
 BARR ENGINEERING CO.  
 4300 MARKETPOINTE DRIVE  
 Suite 200  
 MINNEAPOLIS, MN 55435

Corporate Headquarters:  
 Minneapolis, Minnesota  
 Ph: 1-800-632-2277  
 Fax: (952) 832-2601  
 Ph: 1-800-632-2277  
 www.barr.com

Scale	AS SHOWN
Date	02/11/2020
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	-

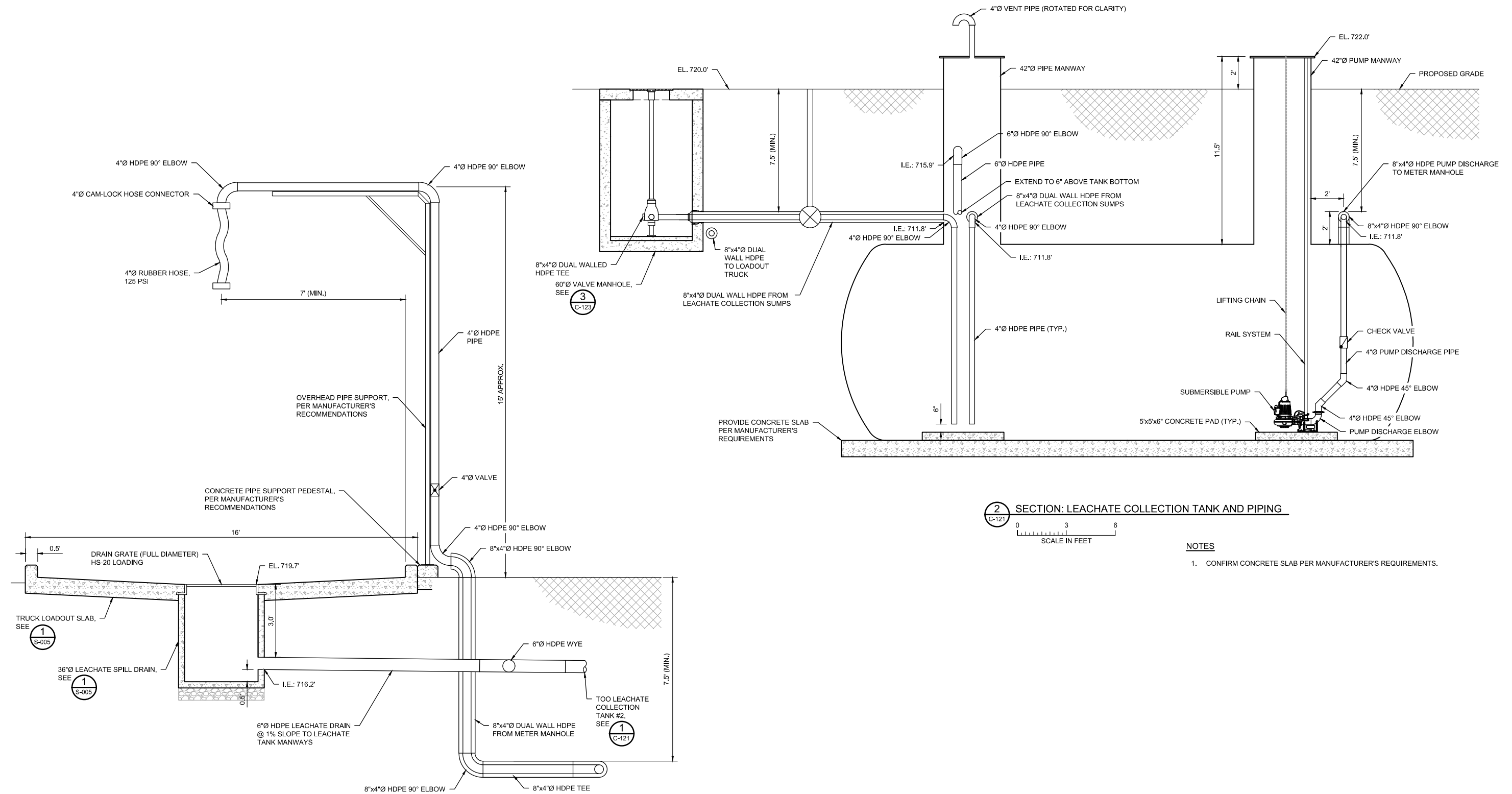


FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA

LEACHATE MANAGEMENT AREA  
 PLAN

BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-121	REV. No. B

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**1 SECTION: LEACHATE LOADING FACILITY SLAB**  
 C-121  
 0 2 4  
 SCALE IN FEET

**2 SECTION: LEACHATE COLLECTION TANK AND PIPING**  
 C-121  
 0 3 6  
 SCALE IN FEET

- NOTES**
- CONFIRM CONCRETE SLAB PER MANUFACTURER'S REQUIREMENTS.

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 NOT FOR CONSTRUCTION  
 06/30/2022

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: _____  
 SIGNATURE: _____  
 DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED

**BARR** Project Office:  
 BARR ENGINEERING CO.  
 4300 MARKETPOINTE DRIVE  
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 Minneapolis, Minnesota  
 Ph: 1-800-632-2277  
 Fax: (952) 832-2601  
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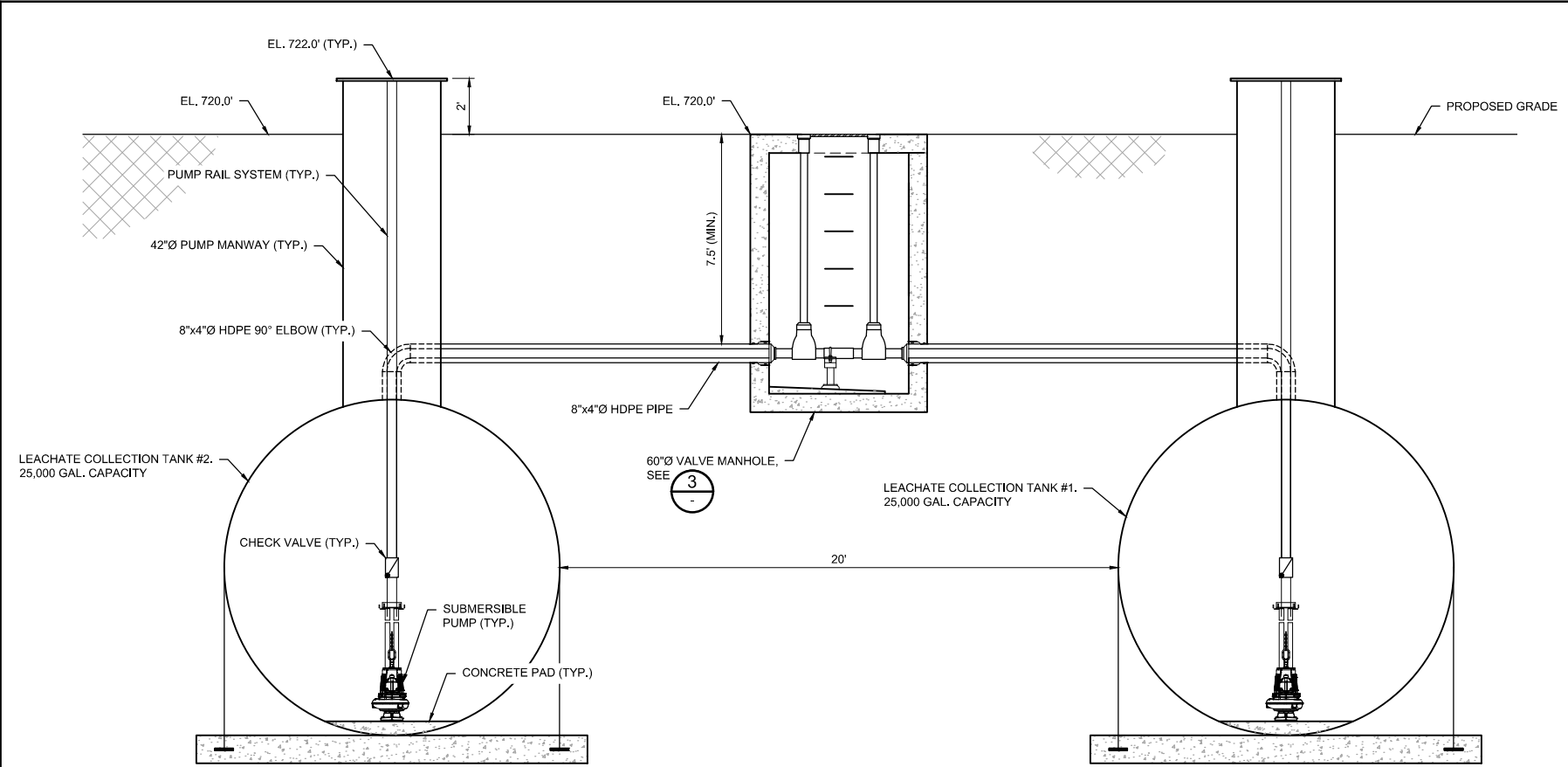
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Date	02/11/2020
Drawn	AWT
Checked	BDP
Designed	BARR
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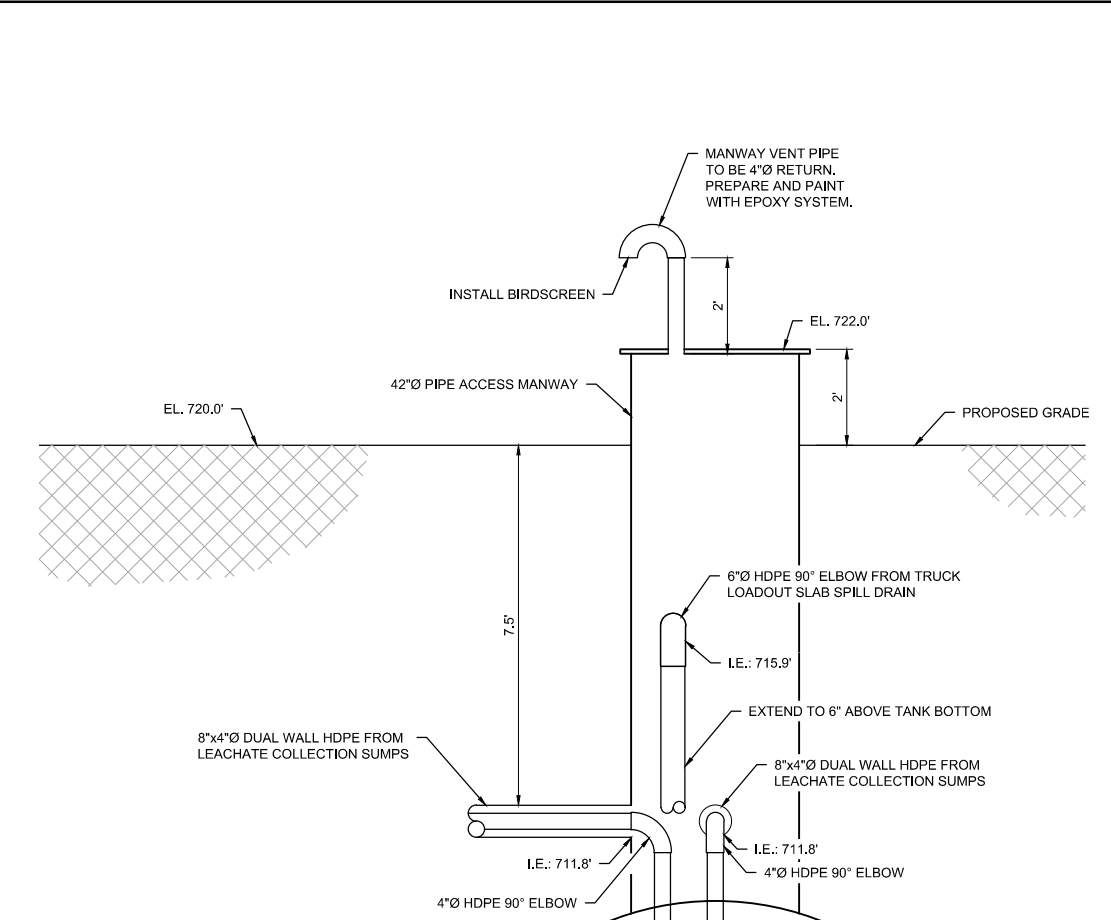
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA

LEACHATE TANK SECTIONS

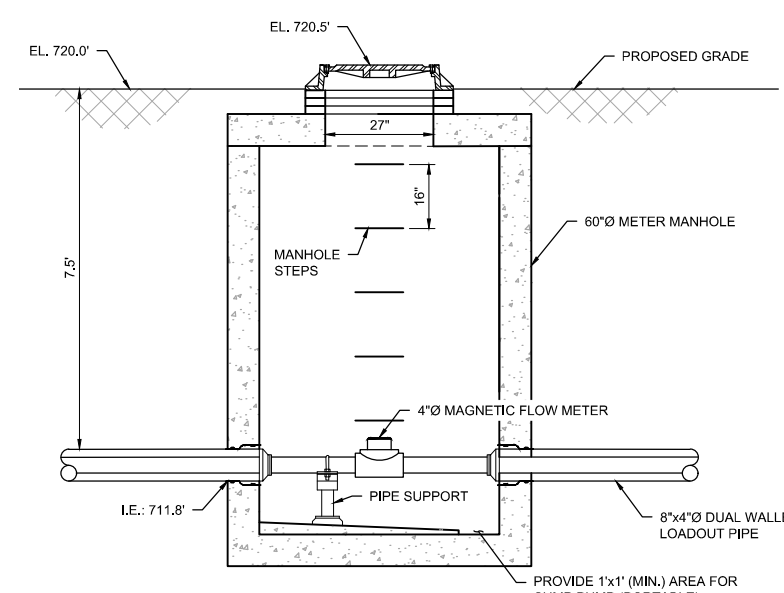
BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-122	REV. No. B



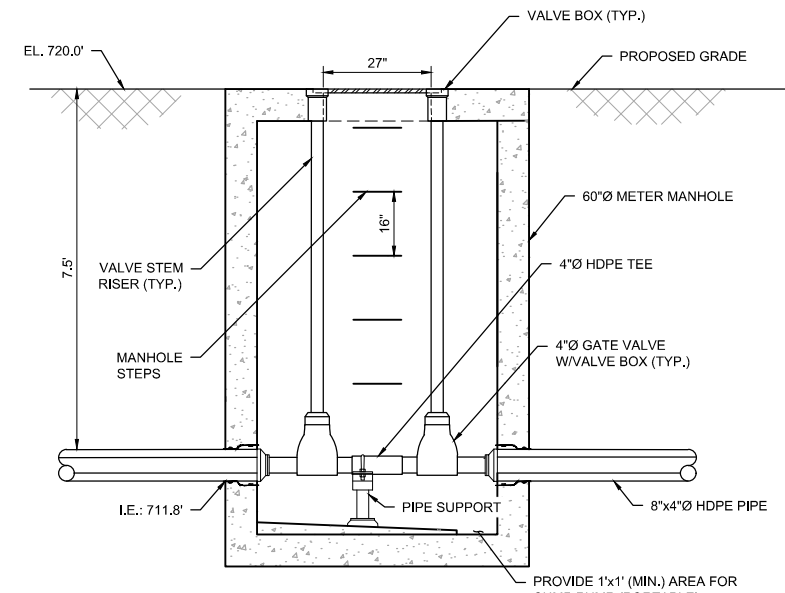
**1 SECTION: PUMP MANWAY AND METER MANHOLE**  
 C-121  
 0 3 6  
 SCALE IN FEET



**4 SECTION: PIPE MANWAY (TYP.)**  
 C-121  
 0 2 4  
 SCALE IN FEET



**2 SECTION: METER MANHOLE**  
 C-121  
 0 2 4  
 SCALE IN FEET



**3 SECTION: VALVE MANHOLE**  
 C-121  
 0 2 4  
 SCALE IN FEET

**NOTES**  
 1. PROVIDE WATERPROOF PENETRATION FOR FLOW METER WIRING.

CADD USER: Zach A. Nelson FILE: MDESIGN\23191372\052319137205\LINE_C-123.DWG PLOT SCALE: 1:2,000 PLOT DATE: 06/28/2022 2:42 PM  
 BARR\AutoCAD 2011\AutoCAD 2011 Support\Temp\Temp\Barr_2011_Template.dwg Plot at 1: 10/05/2010 14:09:50

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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 SIGNATURE: _____  
 DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED

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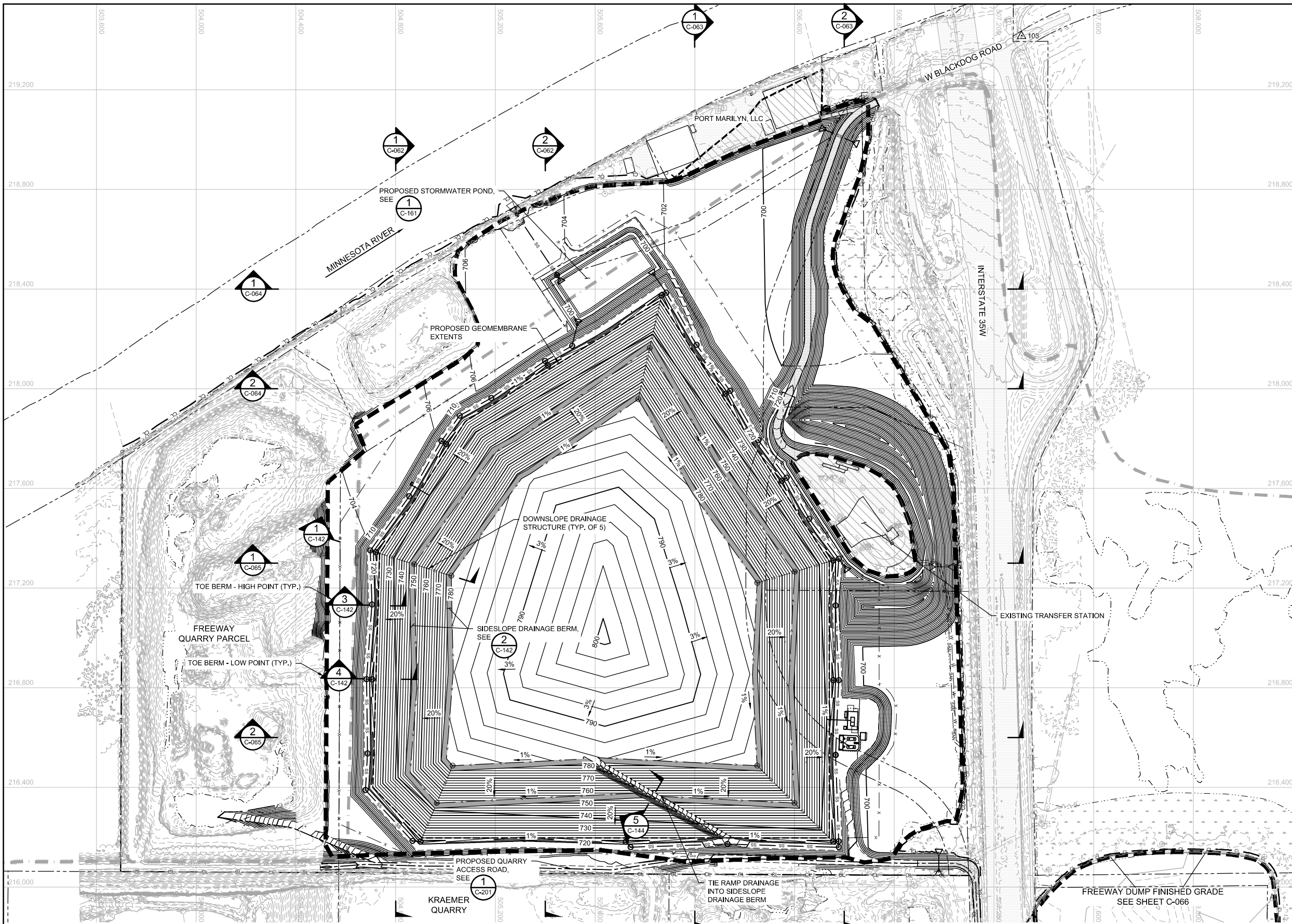
Scale	AS SHOWN
Date	02/11/2020
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	-



**FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE**  
 BURNSVILLE, MINNESOTA  
**LEACHATE MANAGEMENT AREA**  
 SECTIONS

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 NOT FOR CONSTRUCTION  
 06/30/2022

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-123
REV. No.	B



**LEGEND**

— CL — CL —	CONSTRUCTION LIMITS
---	PROPERTY BOUNDARY
- - - - -	EXISTING FLOODWAY BOUNDARY
- W - W - W -	EXISTING WATERLINE (2020-06-12)
740	EXISTING 10-FOOT CONTOUR
- - - - -	EXISTING 2-FOOT CONTOUR
OE OE	EXISTING OVERHEAD ELECTRIC
SS SS	EXISTING CULVERT
X X	EXISTING CHAIN LINK FENCE
~ ~ ~ ~ ~	EXISTING TREE LINE
	APPROXIMATE LIMITS OF WASTE REMOVAL
	APPROXIMATE LIMITS OF WASTE TO REMAIN
	EXISTING BUILDING
	WETLANDS
	EXISTING BITUMINOUS PAVEMENT
	EXISTING GRAVEL PAVEMENT
△ 101	CONTROL POINT
⊕	EXISTING MONITORING WELL
⊙	EXISTING POWER POLE
⊙	EXISTING LIGHT POLE
⊙	EXISTING ELECTRIC PEDESTAL
⊙	EXISTING WATER MANHOLE
⊙	EXISTING PIV
⊙	EXISTING GATE VALVE
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING STORM SEWER MANHOLE
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING COMMUNICATIONS BOX
⊙	EXISTING SIGN
⊙	EXISTING BOLLARD
710	PROPOSED 10-FOOT CONTOUR
712	PROPOSED 2-FOOT CONTOUR
	PROPOSED BITUMINOUS PAVEMENT
	PROPOSED GRAVEL PAVEMENT
	PROPOSED SIDESLOPE DRAINAGE BERM
→ → →	PROPOSED DRAINAGE FLOW LINE
X X X	PROPOSED CHAIN LINK FENCE
W W W	PROPOSED WATER
SAN SAN	PROPOSED SANITARY
- - - - -	PROPOSED GEOMEMBRANE EXTENTS
SS SS	PROPOSED CULVERT
⊙	PROPOSED GATE

**NOTES**

1. PROPOSED CONTOURS REPRESENT TOP OF FINISHED GRADE. SIDESLOPE DRAINAGE BERM GRADES NOT SHOWN.

1 PLAN: LANDFILL FINAL COVER GRADING

SCALE IN FEET

0 200 400

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NOT FOR CONSTRUCTION  
06/30/2022

CADD USER: Andria W. Talkner; FILE: M:\DESIGN\23191372\062319137205_LINE_C-140.DWG; PLOT SCALE: 1:2; PLOT DATE: 6/30/2022 3:46 PM  
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SIGNATURE: _____  
DATE: _____ LICENSE #: _____

CLIENT	6/30/2021	6/30/2022							
BID									
CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

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Designed	BARR
Approved	



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

LANDFILL FINAL COVER GRADING  
PLAN

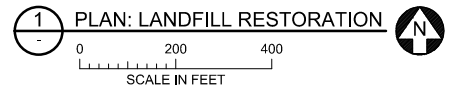
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CLIENT PROJECT No.	
DWG. No.	C-140
REV. No.	B

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LEGEND	
	CONSTRUCTION LIMITS
	PROPERTY BOUNDARY
	EXISTING FLOODWAY BOUNDARY
	EXISTING WATERLINE (2020-06-12)
	EXISTING 25-FOOT CONTOUR
	EXISTING 5-FOOT CONTOUR
	PROPOSED 25-FOOT CONTOUR
	PROPOSED 5-FOOT CONTOUR
	EXISTING OVERHEAD ELECTRIC
	EXISTING CULVERT
	EXISTING CHAIN LINK FENCE
	EXISTING TREE LINE
	APPROXIMATE LIMITS OF WASTE REMOVAL
	APPROXIMATE LIMITS OF WASTE TO REMAIN
	EXISTING BUILDING
	25-FOOT WETLAND BUFFER EXTENT
	TEMPORARY WETLAND IMPACTS AND RESTORATION (NO LOSS)
	WETLANDS
	EXISTING BITUMINOUS PAVEMENT
	EXISTING GRAVEL PAVEMENT
	EXISTING MONITORING WELL
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING ELECTRIC PEDESTAL
	EXISTING WATER MANHOLE
	EXISTING PIV
	EXISTING GATE VALVE
	EXISTING FIRE HYDRANT
	EXISTING STORM SEWER MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING COMMUNICATIONS BOX
	EXISTING SIGN
	EXISTING BOLLARD
	PROPOSED BITUMINOUS PAVEMENT
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED GRAVEL PAVEMENT
	PROPOSED RIPRAP
	PROPOSED CHAIN LINK FENCE
	PROPOSED GATE

- NOTES:**
- CONTOURS SHOWN REPRESENT FINAL CONDITIONS.
  - SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00. SEE SHEET C-021 FOR MORE INFORMATION.
  - PROVIDE FENCES AND GATES PER SPECIFICATION 32 31 00.
  - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
  - INSTALL EROSION AND SEDIMENT CONTROL FEATURES PER SPECIFICATION 31 25 00.
  - STORM SEWER PIPING WITHIN EMBANKMENT AND TO/FROM STORMWATER POND NOT SHOWN FOR CLARITY. SEE SHEET C-160 FOR STORMWATER INFORMATION.



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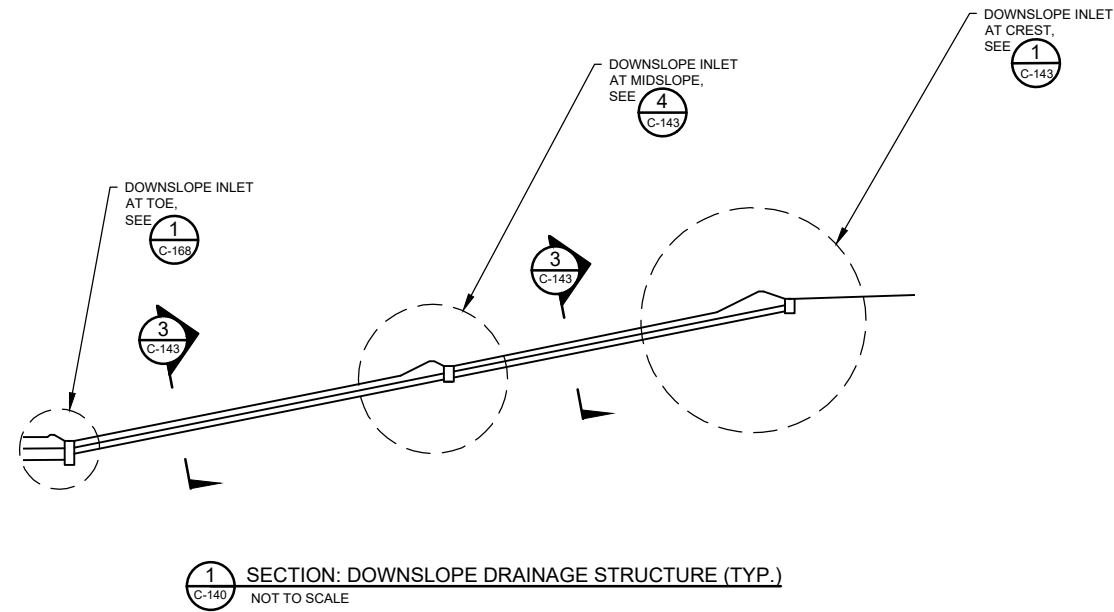
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Date	06/12/2020
Drawn	ADB2
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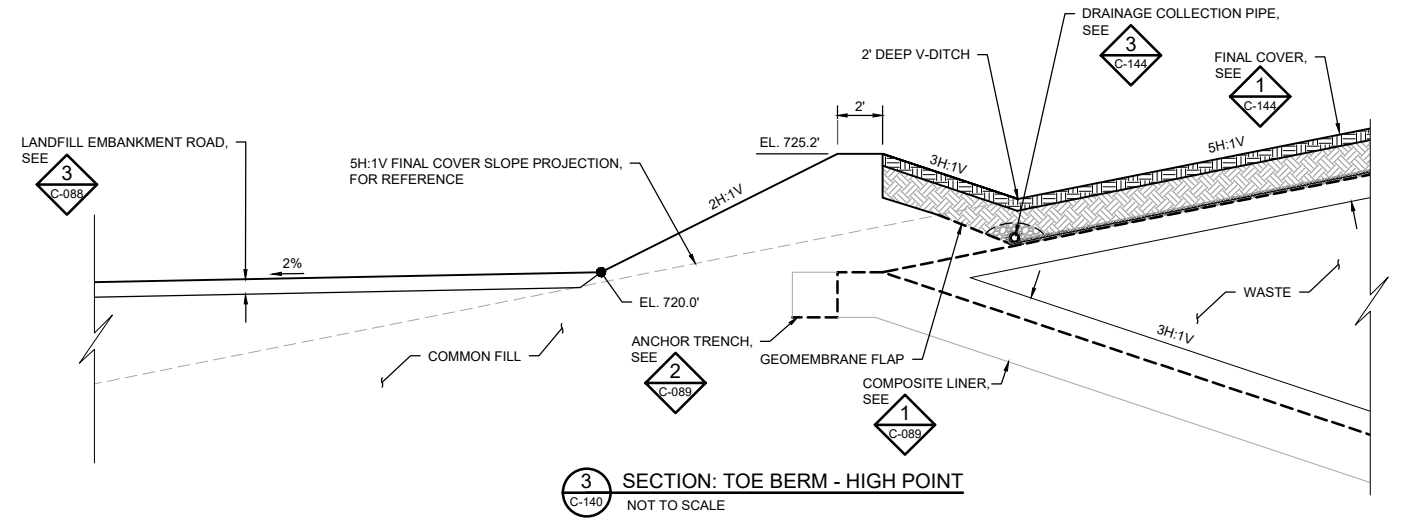
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA

LANDFILL RESTORATION  
 PLAN

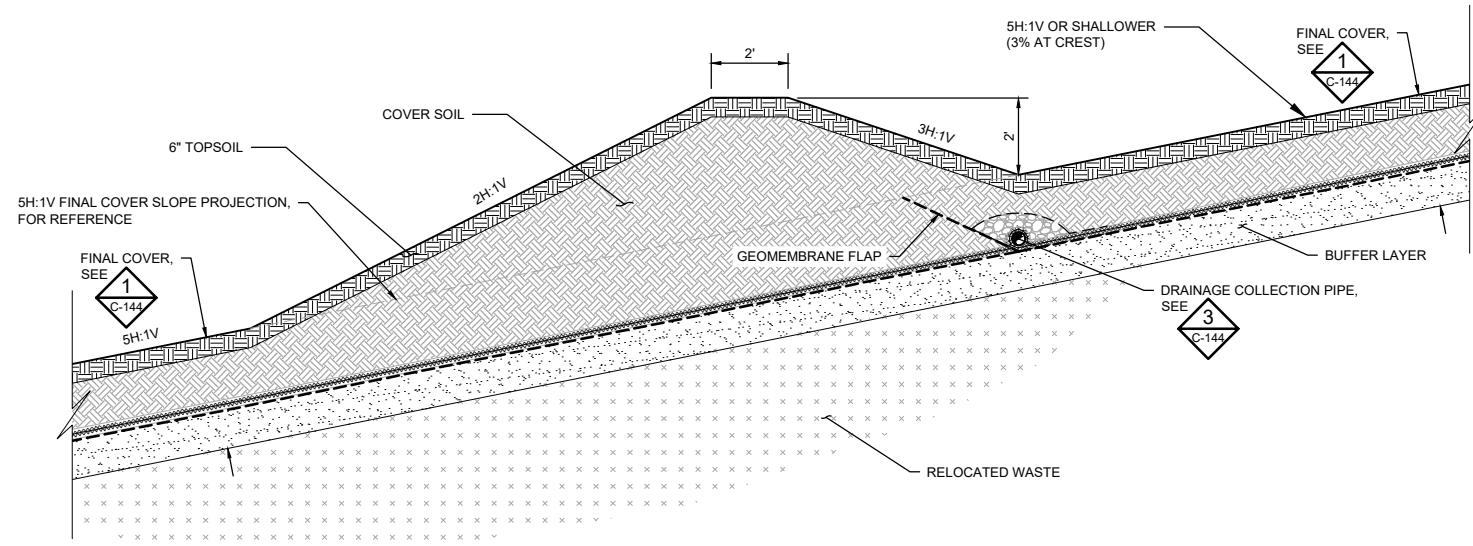
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23/19-1372.00	
CLIENT PROJECT No.	
DWG. No.	REV. No.
C-141	B



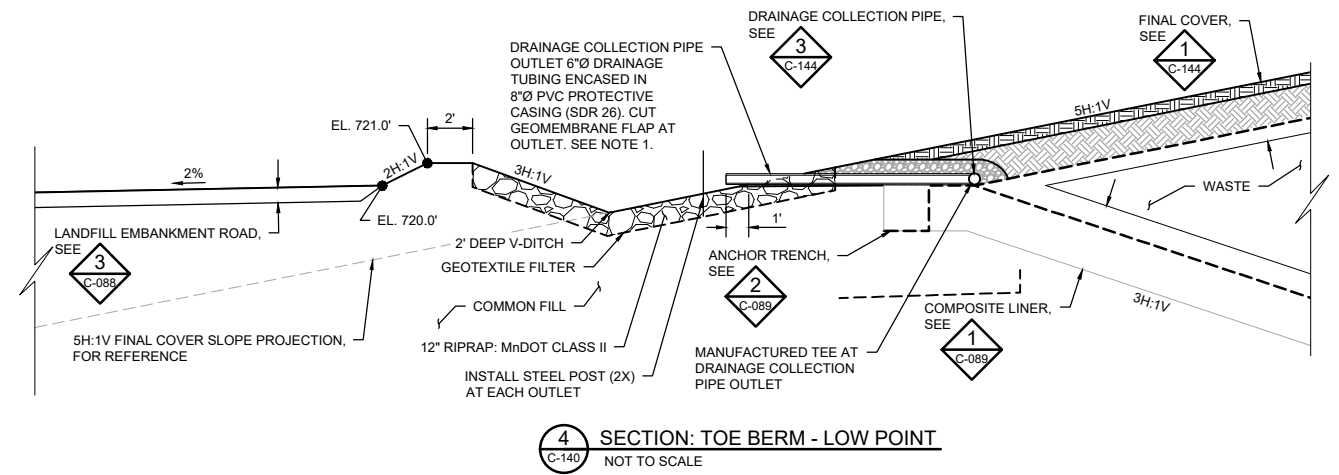
1 SECTION: DOWNSLOPE DRAINAGE STRUCTURE (TYP.)  
C-140 NOT TO SCALE



3 SECTION: TOE BERM - HIGH POINT  
C-140 NOT TO SCALE



2 SECTION: SIDESLOPE DRAINAGE BERM  
C-140 NOT TO SCALE



4 SECTION: TOE BERM - LOW POINT  
C-140 NOT TO SCALE

- NOTES:
- PROVIDE DRAINAGE COLLECTION PIPE OUTLET AT INLET STRUCTURES AND WHERE V-DITCH BOTTOM ELEVATION IS 719.5' (APPROX. 50' UPSTREAM OF INLET STRUCTURES).

CADD USER: Jack A. Mettich FILE: M:\DESIGN\23191372\052319137205_LINE_C-142.DWG PLOT SCALE: 1:2 PLOT DATE: 06/30/2022 1:28 PM  
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 DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
BARR ENGINEERING CO.	06/30/2021	06/30/2021	A B C 0 1 2 3	06/30/2022

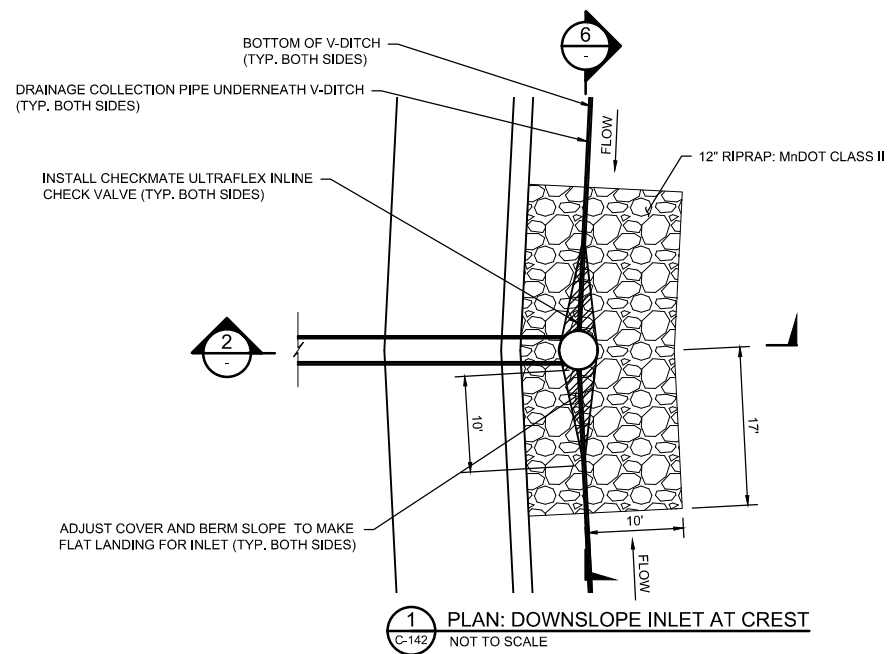
**BARR**  
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Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-

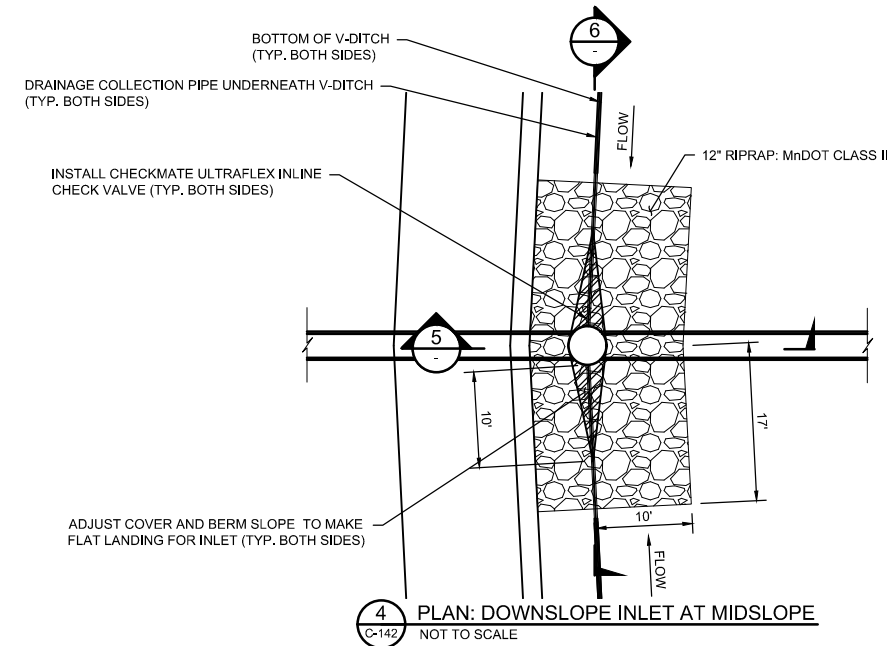


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 06/30/2022  
 FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA  
 FINAL COVER SECTIONS

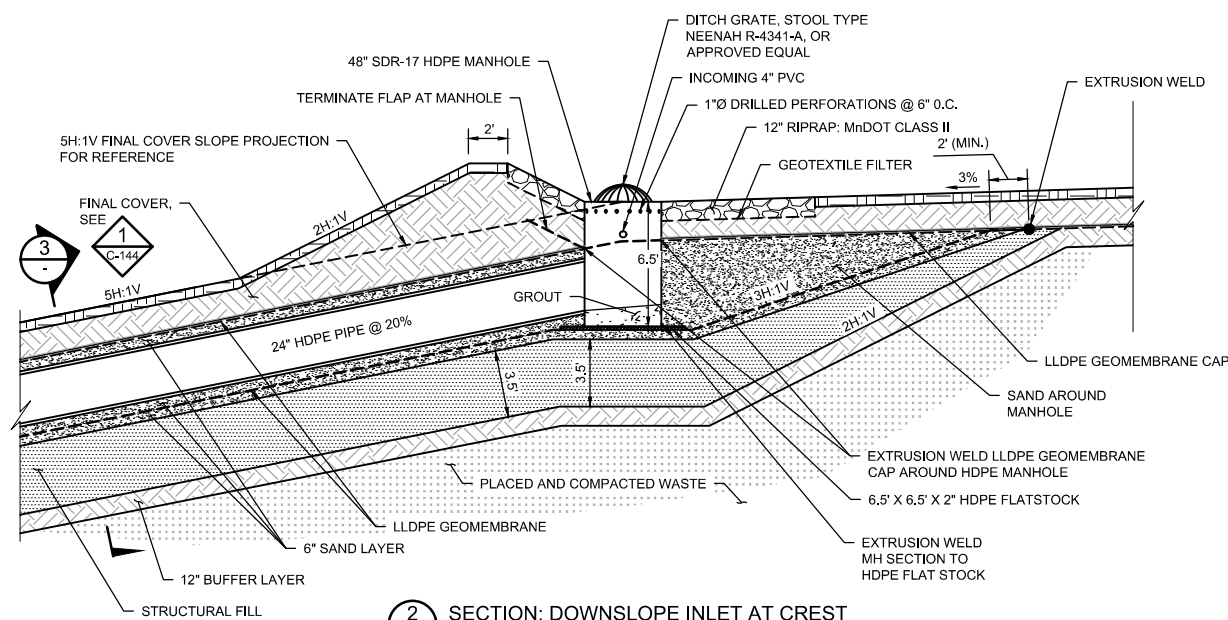
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CLIENT PROJECT No.	
DWG. No.	C-142
REV. No.	B



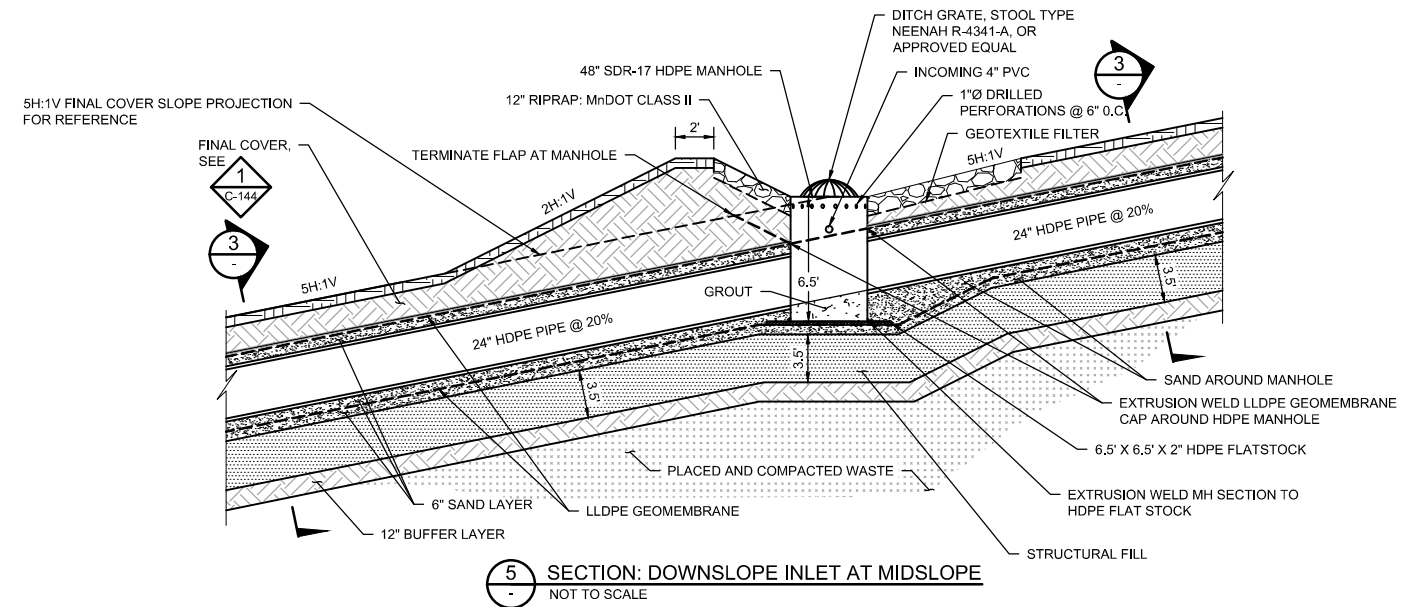
1 PLAN: DOWNSLOPE INLET AT CREST  
C-142 NOT TO SCALE



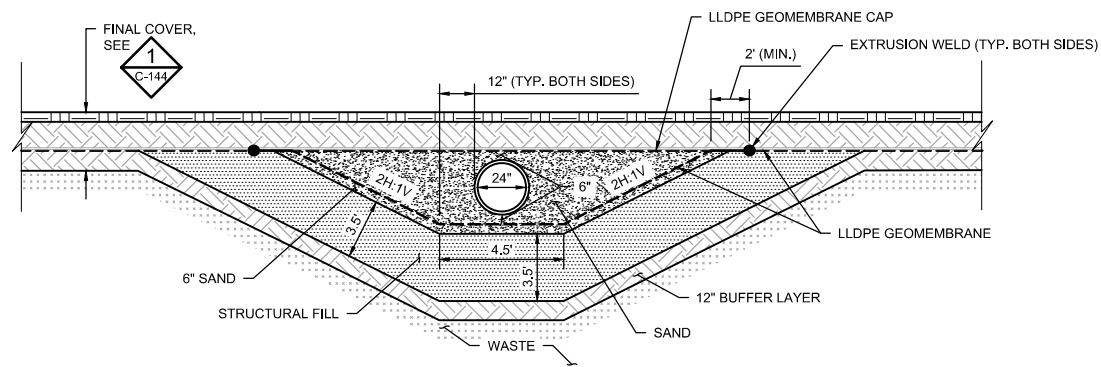
4 PLAN: DOWNSLOPE INLET AT MIDSLOPE  
C-142 NOT TO SCALE



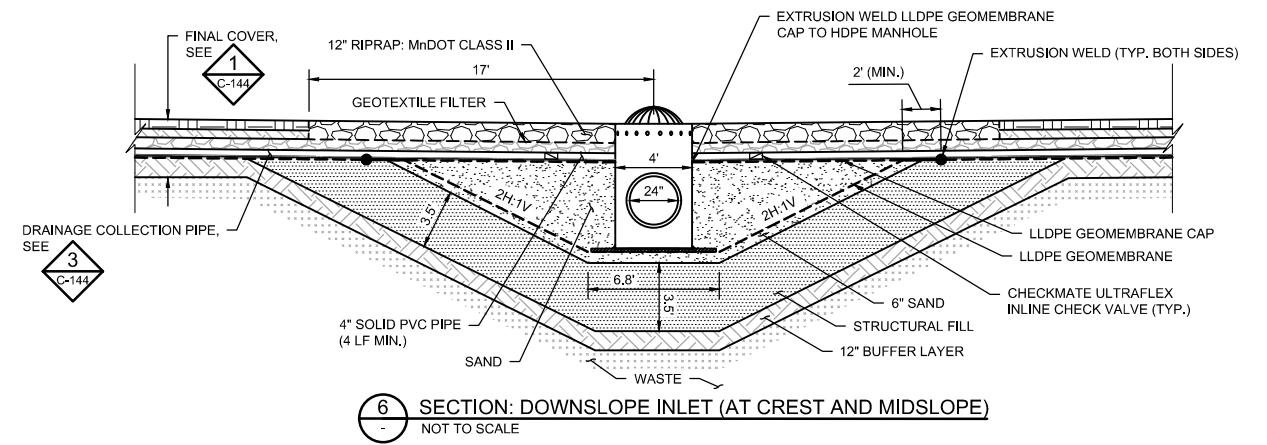
2 SECTION: DOWNSLOPE INLET AT CREST  
NOT TO SCALE



5 SECTION: DOWNSLOPE INLET AT MIDSLOPE  
NOT TO SCALE



3 SECTION: DOWNSLOPE DRAINAGE PIPE  
C-141 NOT TO SCALE



6 SECTION: DOWNSLOPE INLET (AT CREST AND MIDSLOPE)  
NOT TO SCALE

CADD USER: Zach J. Nelson FILE: M:\DESIGN\23191372\05\2319137205_LINE_C-143.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 12:27 PM  
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SIGNATURE: _____  
DATE: _____ LICENSE #: _____

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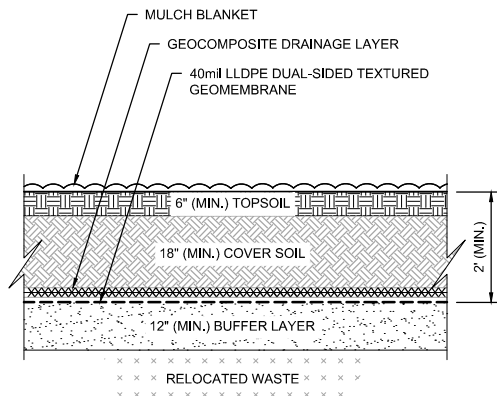
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

FINAL COVER DOWNSLOPE DRAINAGE  
PLAN AND SECTIONS

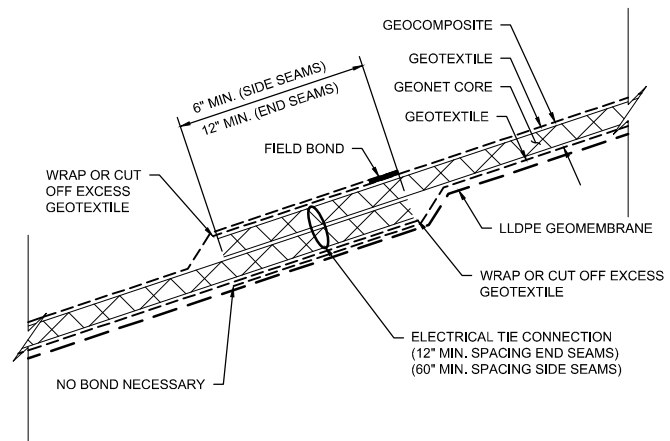
BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-143	REV. No. B

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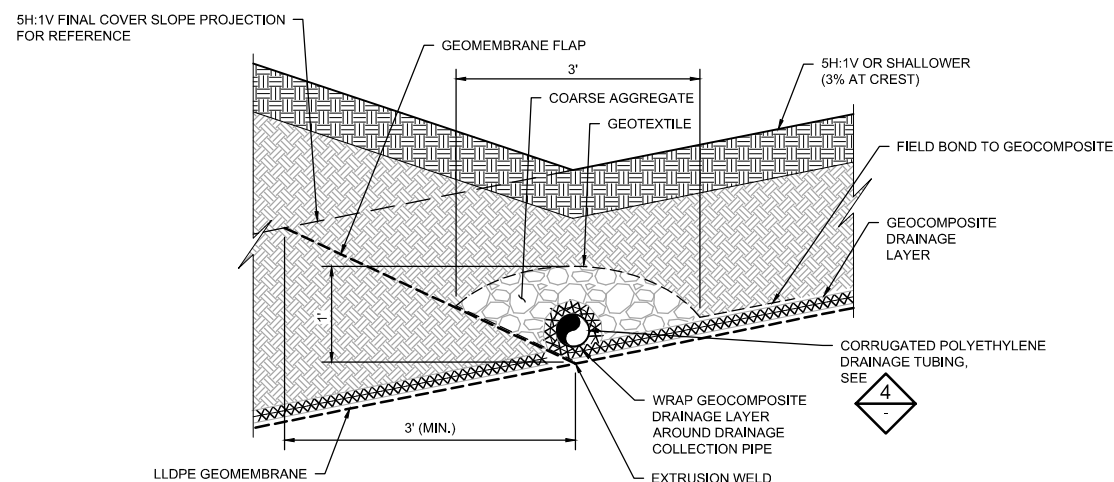




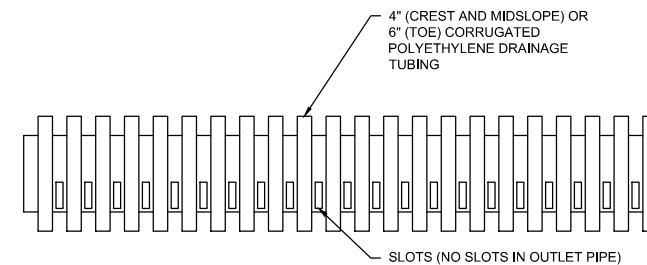
**1** DETAIL: FINAL COVER  
C-062, C-063, C-064, C-065, C-107, C-141, C-142, C-143  
NOT TO SCALE



**2** DETAIL: GEOCOMPOSITE SEAM (TYP.)  
NOT TO SCALE

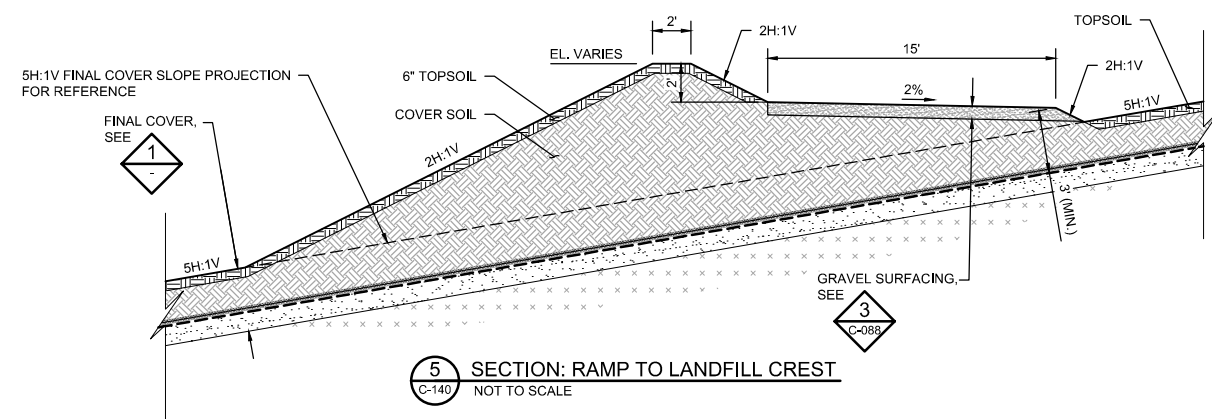


**3** DETAIL: DRAINAGE COLLECTION PIPE  
C-142, C-143  
NOT TO SCALE



**4** DETAIL: FINAL COVER DRAINAGE COLLECTION PIPE PERFORATION  
NOT TO SCALE

NOTE:  
CORRUGATED POLYETHYLENE DRAINAGE TUBING SHALL MEET THE SPECIFICATIONS OF MnDOT 3278.



**5** SECTION: RAMP TO LANDFILL CREST  
C-140  
NOT TO SCALE

CADD USER: Zach J. Nelson FILE: M:\DESIGN\23191372\05\2319137205_LINE_C-144.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 12:25 PM  
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DATE: _____ LICENSE # _____

CLIENT	06/30/2021	06/30/2021							
BID									
CONSTRUCTION									
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Checked	BDP
Designed	BARR
Approved	

**m**  
MINNESOTA POLLUTION  
CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
BURNSVILLE, MINNESOTA

FINAL COVER  
DETAILS

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-144
REV. No.	B



**LEGEND**

— CL — CL —	CONSTRUCTION LIMITS
---	PROPERTY BOUNDARY
- - - - -	EXISTING FLOODWAY BOUNDARY
- W - W - W -	EXISTING WATERLINE (2020-06-12)
— 740 —	EXISTING 10-FOOT CONTOUR
---	EXISTING 2-FOOT CONTOUR
— OE — OE —	EXISTING OVERHEAD ELECTRIC
— UE — UE —	EXISTING UNDERGROUND ELECTRIC
— W — W —	EXISTING POTABLE
— SS — SS —	EXISTING STORM
△ SS △ SS △	EXISTING CULVERT
— S—S — S—S —	EXISTING SANITARY
— X — X —	EXISTING CHAIN LINK FENCE
—	EXISTING TREE LINE
- - - - -	APPROXIMATE LIMITS OF WASTE REMOVAL
- - - - -	APPROXIMATE LIMITS OF WASTE TO REMAIN
—	EXISTING BUILDING
- - - - -	WETLANDS
—	EXISTING BITUMINOUS PAVEMENT
—	EXISTING GRAVEL PAVEMENT
⊕	EXISTING MONITORING WELL
⊙	EXISTING POWER POLE
⊙	EXISTING LIGHT POLE
⊙	EXISTING ELECTRIC PEDESTAL
⊙	EXISTING WATER MANHOLE
⊙	EXISTING PIV
⊙	EXISTING GATE VALVE
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING STORM SEWER MANHOLE
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING COMMUNICATIONS BOX
⊙	EXISTING SIGN
⊙	EXISTING BOLLARD
— 700 —	PROPOSED 10-FOOT CONTOUR
— 698 —	PROPOSED 2-FOOT CONTOUR
—	PROPOSED BITUMINOUS PAVEMENT
—	PROPOSED RIPRAP
—	PROPOSED GRAVEL PAVEMENT
— X — X —	PROPOSED CHAIN LINK FENCE
— SS — SS —	PROPOSED STORM SEWER
△ SS △ SS △	PROPOSED CULVERT
⊙	PROPOSED GATE
⊙	PROPOSED STORM SEWER MANHOLE

**NOTES:**  
 1. FOR STORMWATER STRUCTURE SCHEDULE, SEE SHEET C-169.

**1 PLAN: STORMWATER MANAGEMENT**  
 SCALE IN FEET  
 0 200 400

100% DRAFT  
 NOT FOR CONSTRUCTION  
 06/30/2022

CADD USER: Andreea W. Tokkimer; FILE: M:\DESIGN\23191372\062319137205_LINE_C-160.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 4:11 PM  
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PRINTED NAME: _____  
 SIGNATURE: _____  
 DATE: _____ LICENSE # _____

CLIENT	06/30/2022	06/30/2022					
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

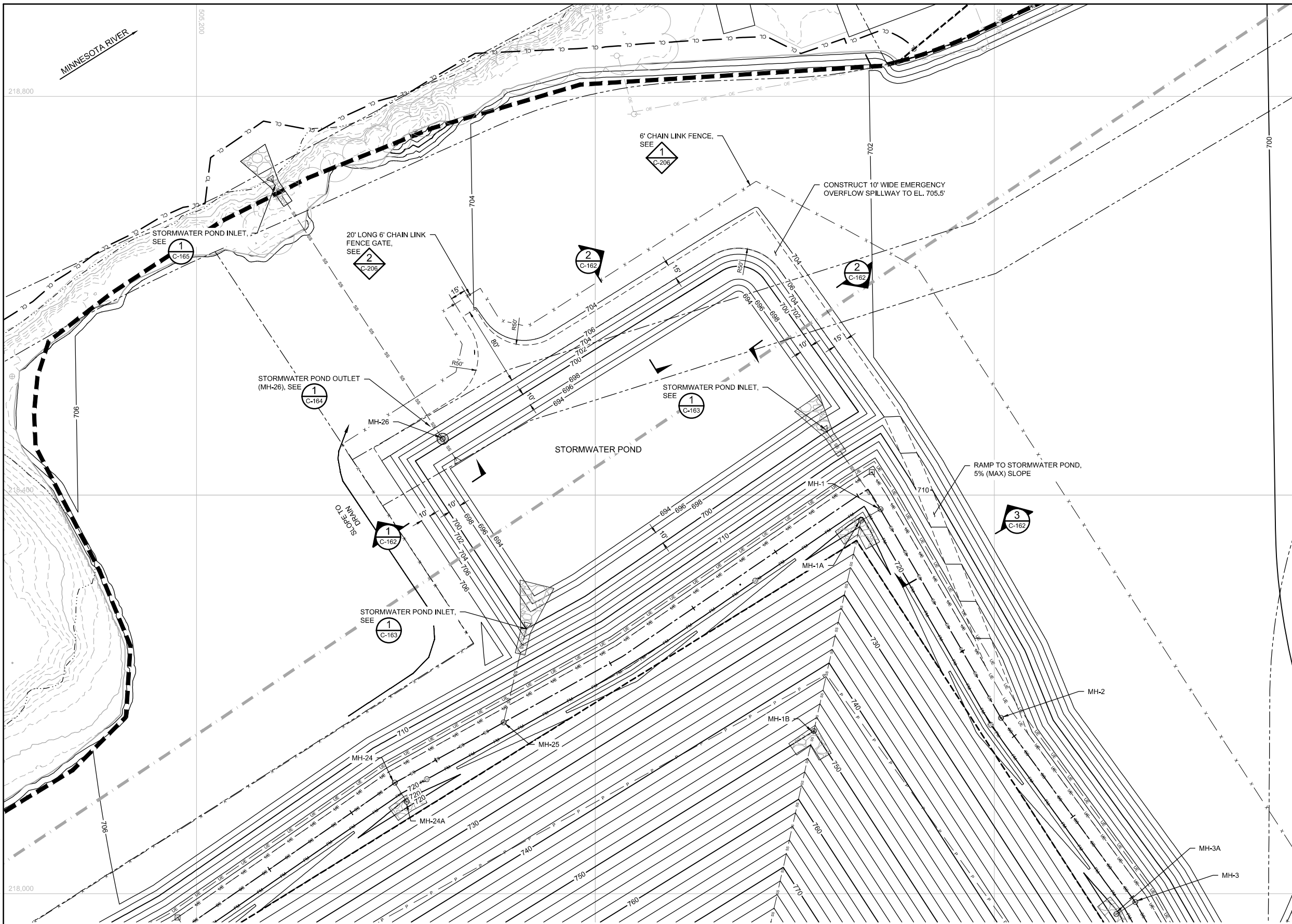
**BARR** Project Office:  
 BARR ENGINEERING CO.  
 4300 MARKETPOINTE DRIVE  
 Suite 200  
 MINNEAPOLIS, MN 55435  
 Corporate Headquarters:  
 Minneapolis, Minnesota  
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Date	01/20/2020
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FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE  
 BURNSVILLE, MINNESOTA  
 STORMWATER MANAGEMENT  
 PLAN

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-160
REV. No.	B



**LEGEND**

--- cl --- cl ---	CONSTRUCTION LIMITS
- - - - -	PROPERTY BOUNDARY
- - - - -	EXISTING FLOODWAY BOUNDARY
--- 740 ---	EXISTING 10-FOOT CONTOUR
--- 740 ---	EXISTING 2-FOOT CONTOUR
--- OE --- OE ---	EXISTING OVERHEAD ELECTRIC
--- UE --- UE ---	EXISTING UNDERGROUND ELECTRIC
~~~~~	EXISTING TREE LINE
- - - - -	APPROXIMATE LIMITS OF WASTE REMOVAL
- - - - -	WETLANDS
⊕	EXISTING MONITORING WELL
⊕	EXISTING POWER POLE
--- 700 ---	PROPOSED 10-FOOT CONTOUR
--- 698 ---	PROPOSED 2-FOOT CONTOUR
- - - - -	PROPOSED GRAVEL PAVEMENT
- - - - -	PROPOSED RIPRAP
x x x x	PROPOSED CHAIN LINK FENCE
--- SS --- SS ---	PROPOSED STORM SEWER
△	PROPOSED CULVERT
⊕	PROPOSED GATE
⊕	PROPOSED STORM SEWER MANHOLE

NOTES:
 1. FOR STORMWATER STRUCTURE SCHEDULE, SEE SHEET C-169.

1 PLAN: STORMWATER POND
 SCALE IN FEET
 0 50 100

100% DRAFT
 NOT FOR CONSTRUCTION
 06/30/2022

CADD USER: Zach J. Nelson FILE: M:\DESIGN\23191372\05\2319137205_LINE_C-161.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 12:08 PM
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BID							
CONSTRUCTION							
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DATE RELEASED							

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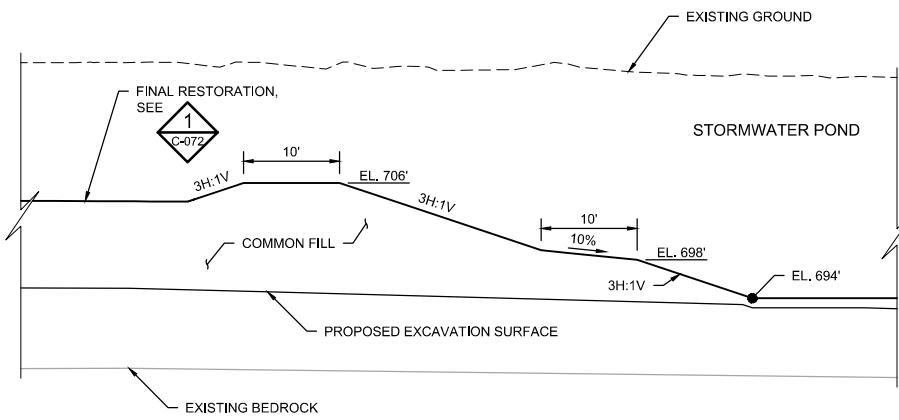
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Date	01/20/2020
Drawn	TJK
Checked	BDP
Designed	BARR
Approved	-



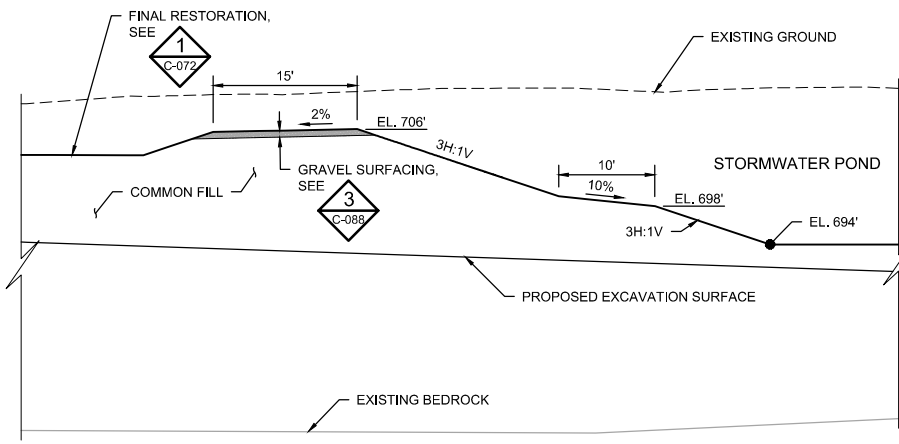
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA

STORMWATER POND
 PLAN

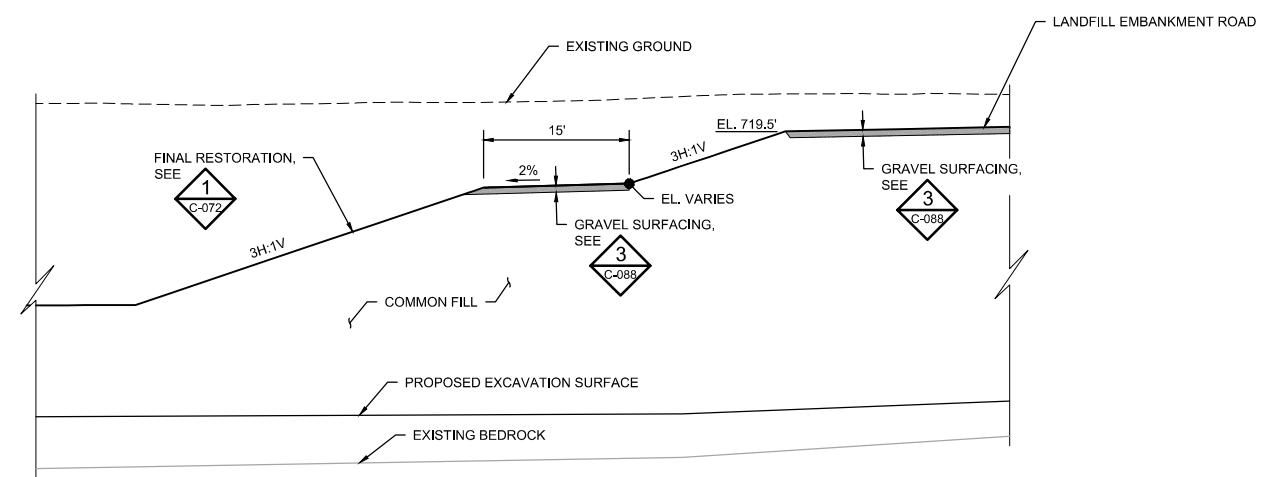
BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-161	REV. No. B



1 SECTION: STORMWATER POND EMBANKMENT (TYP.)
C-161 NOT TO SCALE



2 SECTION: STORMWATER POND EMBANKMENT WITH ROAD (TYP.)
C-161 NOT TO SCALE



3 SECTION: RAMP TO STORMWATER POND (TYP.)
C-161 NOT TO SCALE

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

CADD USER: Zach J. Nelson FILE: M:\DESIGN\23191372\05\2319137205_LINE_C-162.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 12:08 PM
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PRINTED NAME: _____
SIGNATURE: _____
DATE: _____ LICENSE # _____

CLIENT	06/30/2021	06/30/2022						
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CONSTRUCTION								
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DATE RELEASED								

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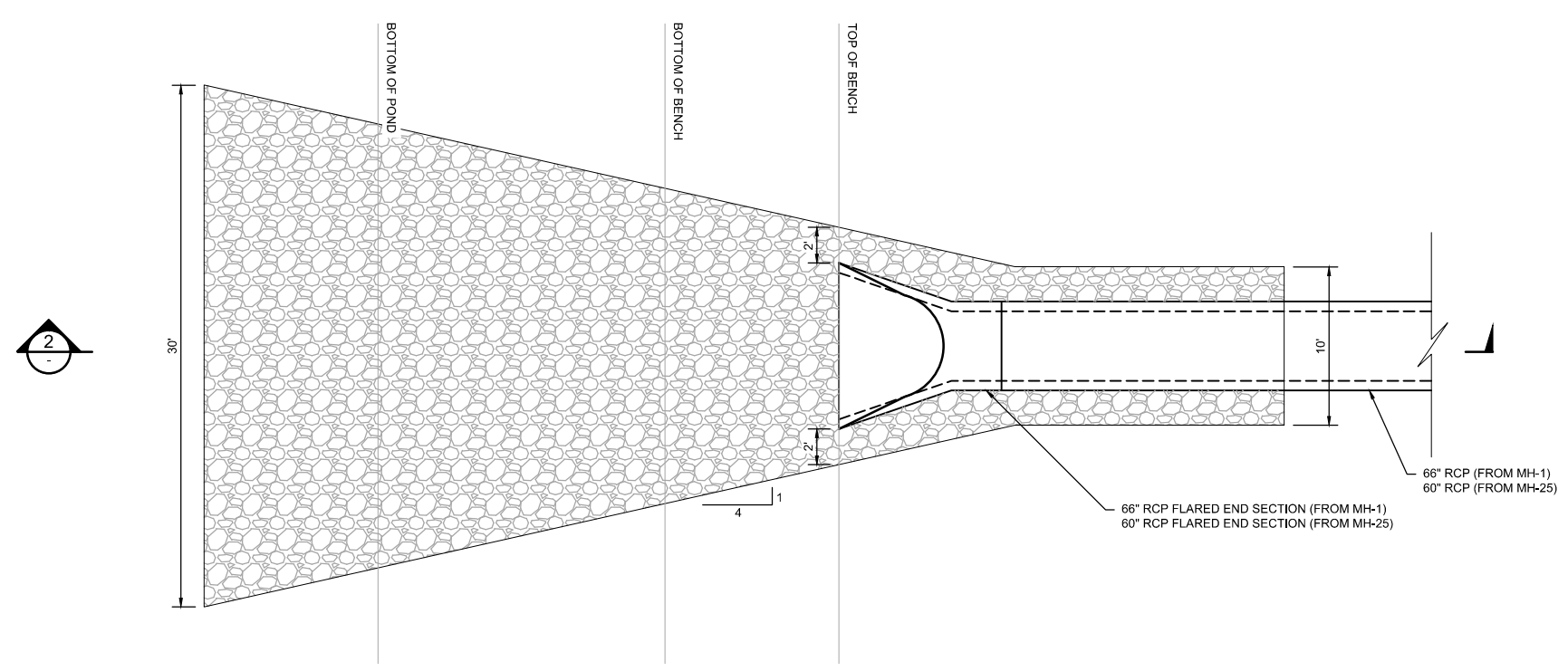
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Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-



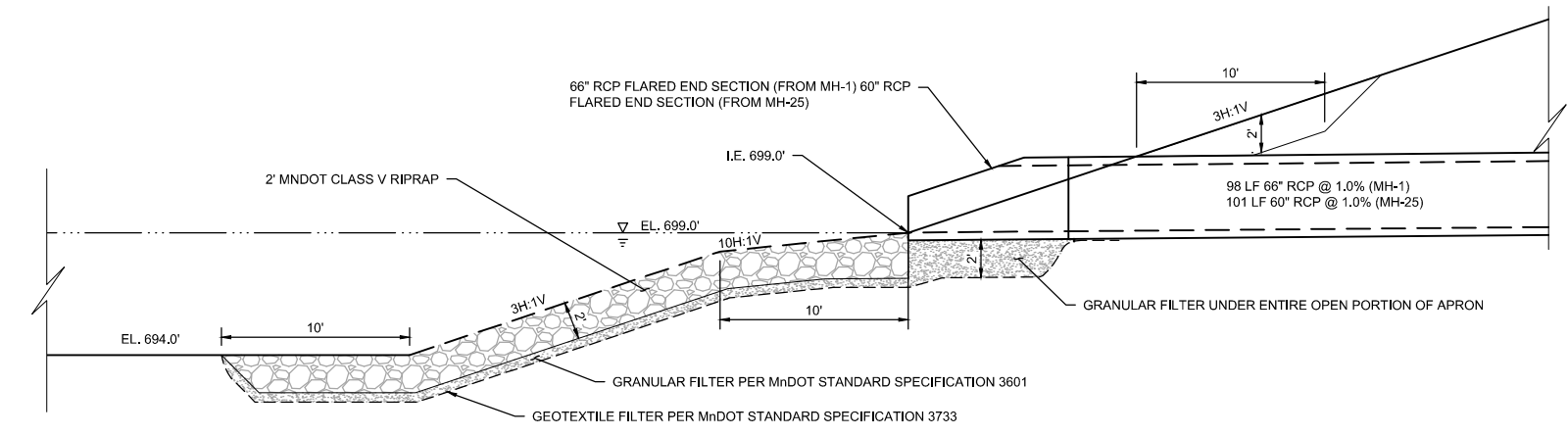
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA
STORMWATER POND
SECTIONS

BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. C-162	REV. No. B

CADD USER: Zach A. Nelson FILE: M:\DESIGN\23191372\05\2319137205_LINE_C--63.DWG PLOT SCALE: 1:12 PLOT DATE: 6/30/2022 12:06 PM
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1 PLAN: STORMWATER POND INLET (TYP.)
NOT TO SCALE



2 SECTION: STORMWATER POND INLET (TYP.)
NOT TO SCALE

- NOTES:**
1. INSTALL STORMWATER PIPING PER SPECIFICATIONS 33 05 28 AND 33 40 00.
 2. INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13.
 3. PLACE RIPRAP PER SPECIFICATION 31 37 00.
 4. PLACE COMMON FILL, GRANULAR FILTER, AND PIPE BEDDING PER SPECIFICATIONS 31 23 00 AND 31 23 23.

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

CLIENT	06/30/2021	06/30/2022							
BID									
CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
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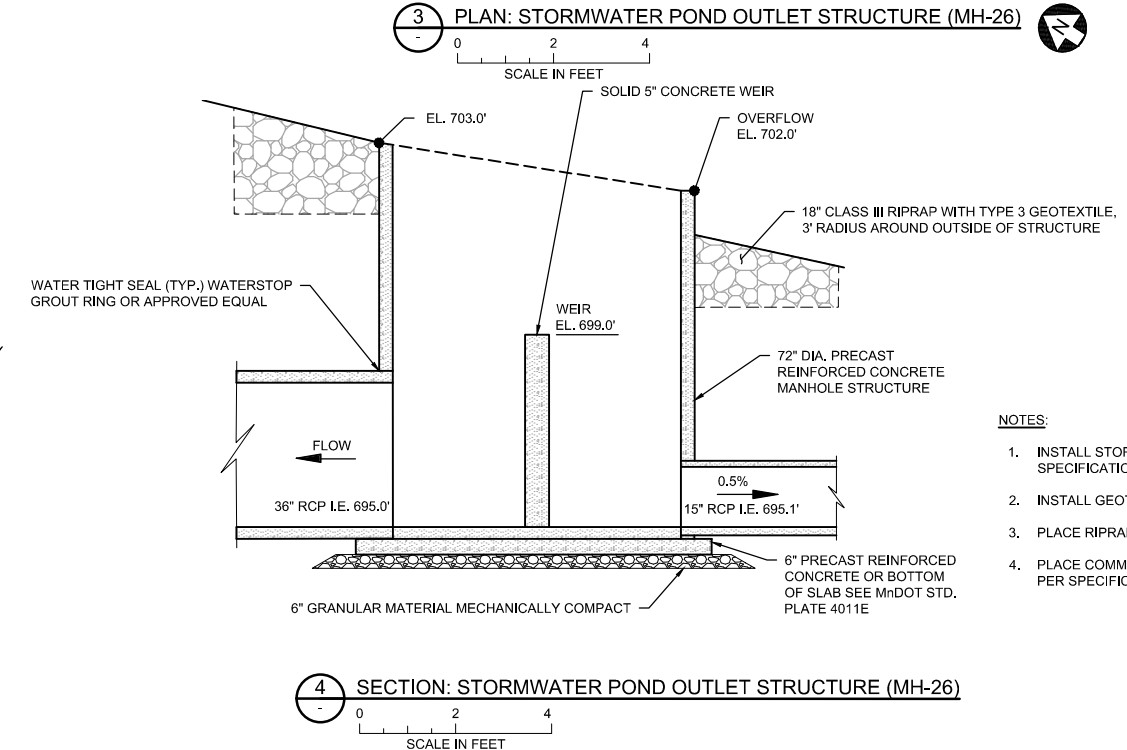
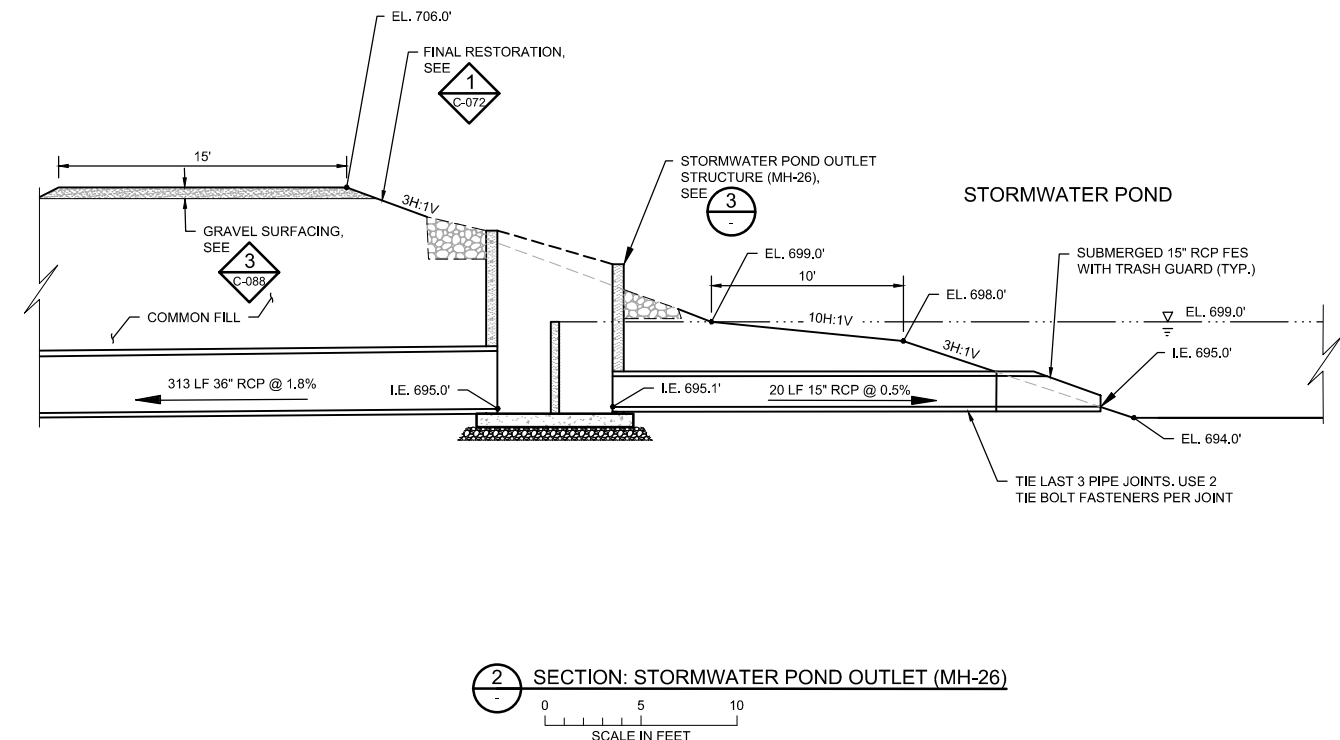
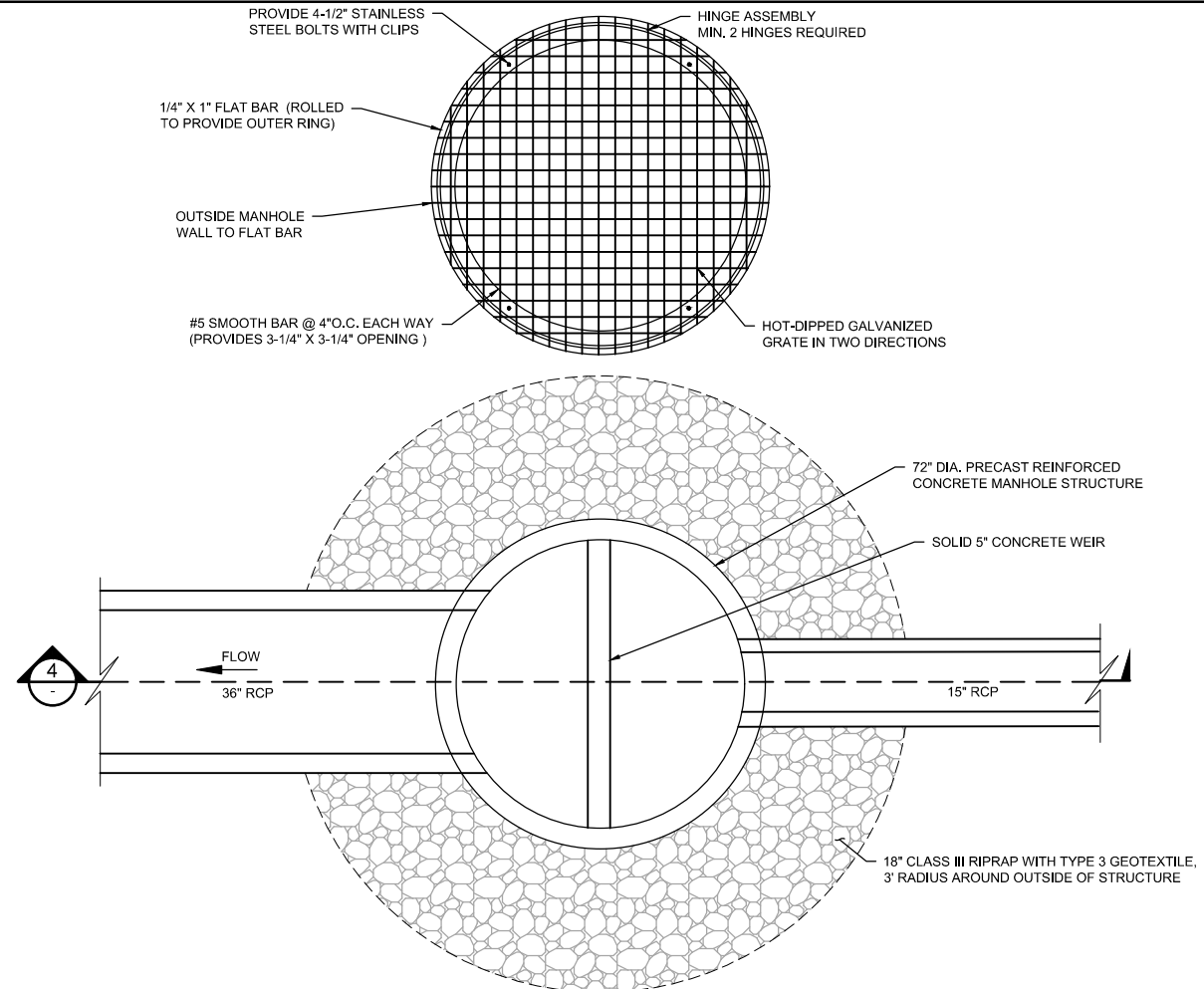
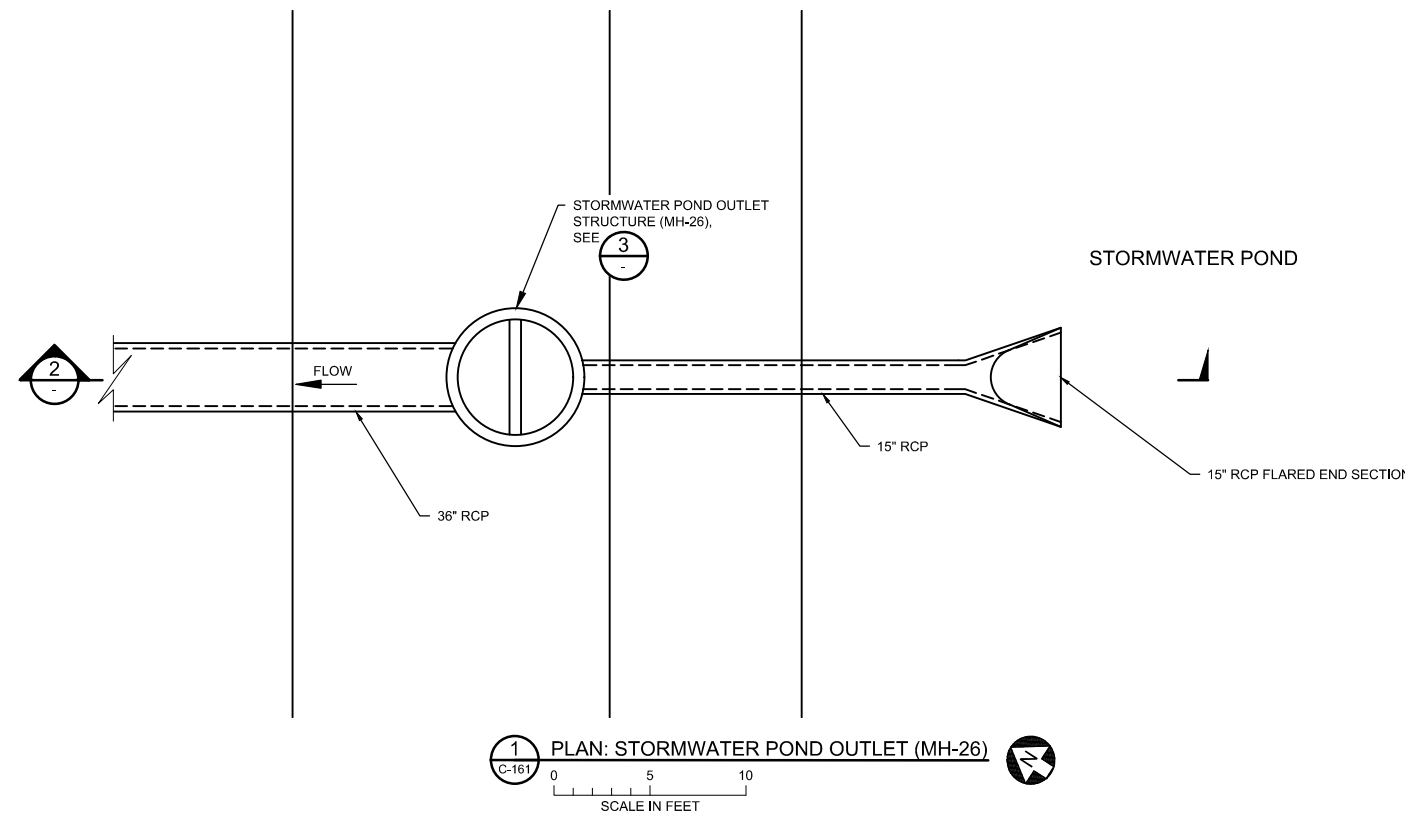
BARR Project Office:
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Scale	AS SHOWN
Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	

m
MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA
STORMWATER POND INLET
PLAN AND SECTION

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-163
REV. No.	B

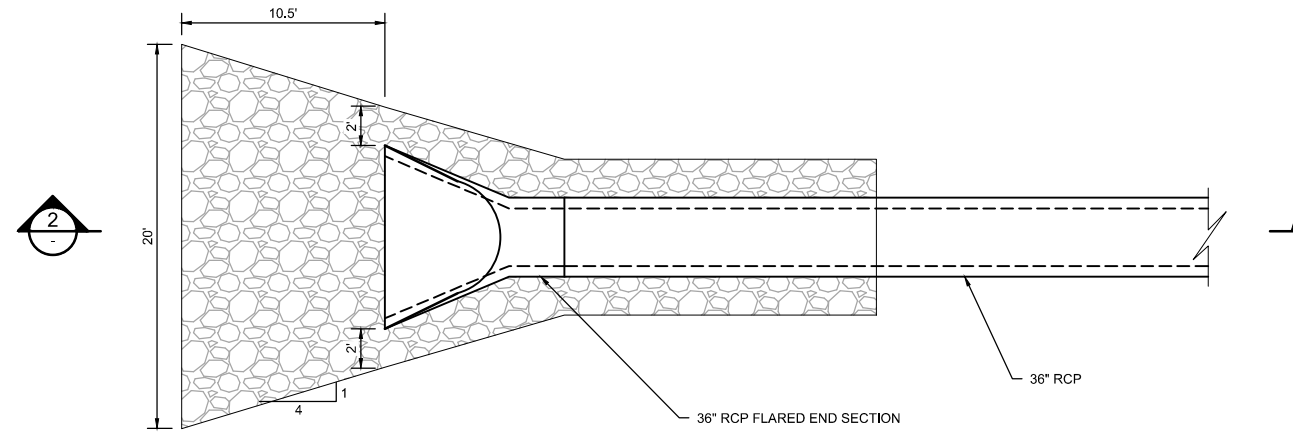


- NOTES:
1. INSTALL STORMWATER PIPING AND MANHOLES PER SPECIFICATIONS 33 05 28 AND 33 40 00.
 2. INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13.
 3. PLACE RIPRAP PER SPECIFICATION 31 37 00.
 4. PLACE COMMON FILL, GRANULAR FILTER, AND PIPE BEDDING PER SPECIFICATIONS 31 23 00 AND 31 23 23.

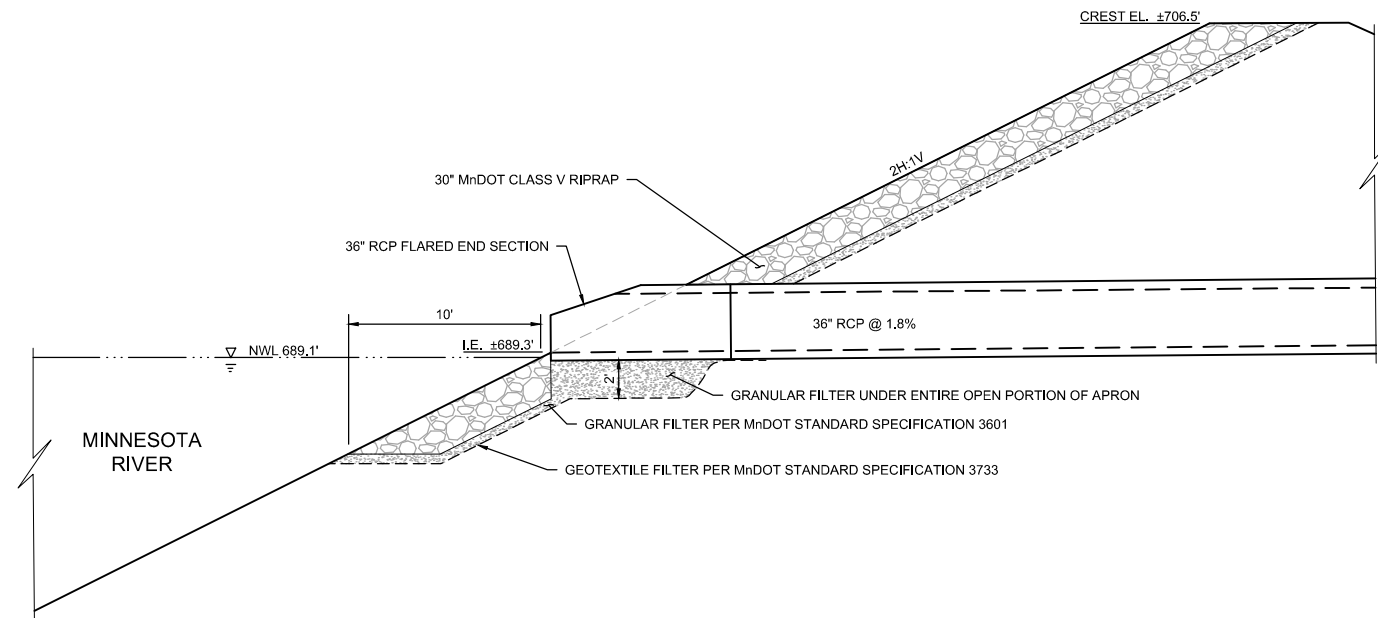
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CADD USER: Zach L. Nelson FILE: M:\DESIGN\23181372\05\23181372\05_LINE_C-164.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 12:03 PM
BARR M:\AutoCAD 2011\AutoCAD 2011 Support\enu\TemplateBar_2011_Template.dwt Plot at 1: 10/05/2010 14:09:50

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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	RELEASED TO/FOR	A B C 0 1 2 3	DATE RELEASED	Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	MINNESOTA POLLUTION CONTROL AGENCY	STORMWATER POND OUTLET PLAN AND SECTION	CLIENT PROJECT No. C-164	REV. No. B



1 PLAN: STORMWATER DISCHARGE TO MINNESOTA RIVER
 C-161
 0 5 10
 SCALE IN FEET



2 SECTION: STORMWATER DISCHARGE TO MINNESOTA RIVER
 0 5 10
 SCALE IN FEET

NOTES:

1. INSTALL STORMWATER PIPING AND MANHOLES PER SPECIFICATIONS 33 05 28 AND 33 40 00.
2. INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13.
3. PLACE RIPRAP PER SPECIFICATION 31 37 00.
4. PLACE COMMON FILL, GRANULAR FILTER, AND PIPE BEDDING PER SPECIFICATIONS 31 23 00 AND 31 23 23.

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 BARR M:\AutoCAD 2011\AutoCAD 2011\Support\enu\Template\Barr_2011_Template.dwt Plot at 1: 10/05/2010 14:09:50

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 SIGNATURE: _____
 DATE: _____ LICENSE # _____

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BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
DATE RELEASED							

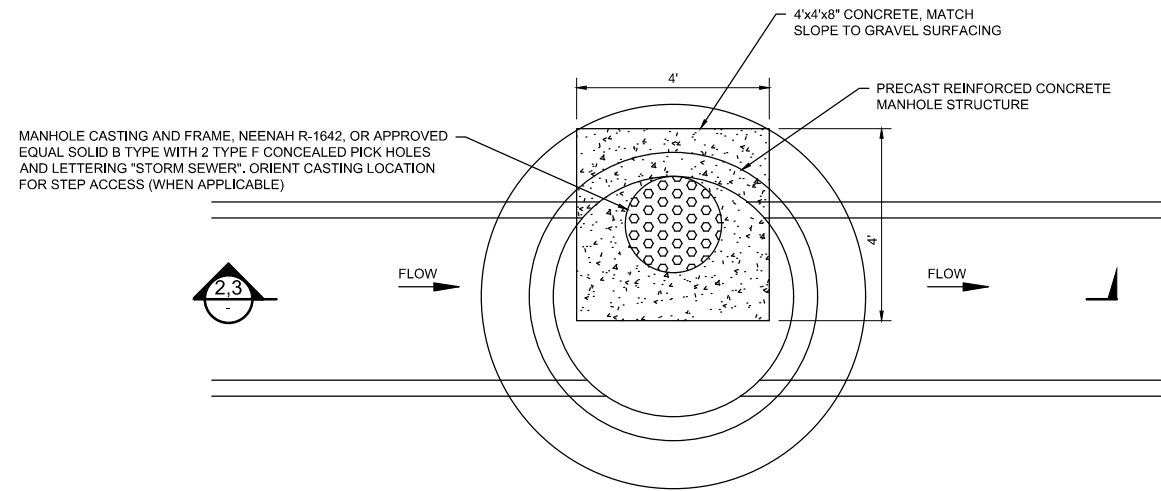
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Date	06/12/2020
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Designed	BARR
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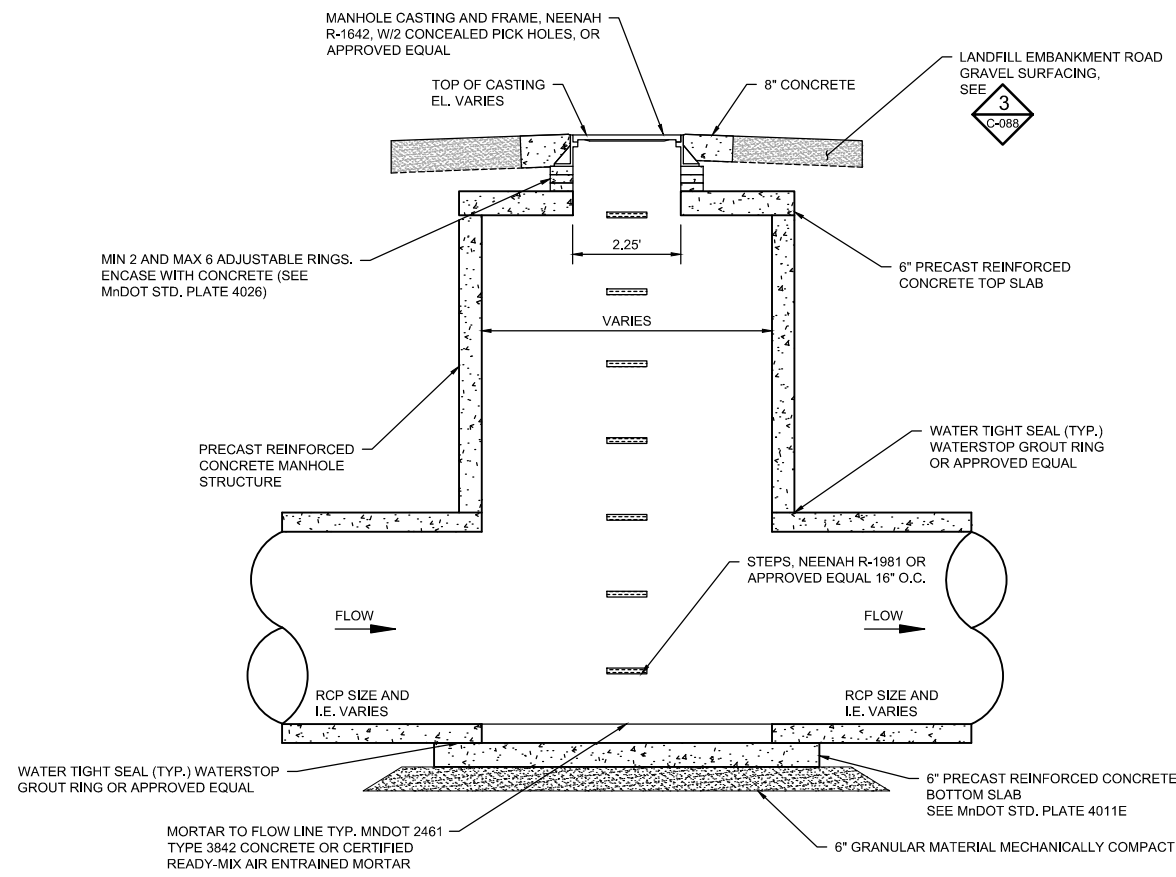
m
 MINNESOTA POLLUTION
 CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA
 STORMWATER DISCHARGE TO MINNESOTA RIVER
 PLAN AND SECTION

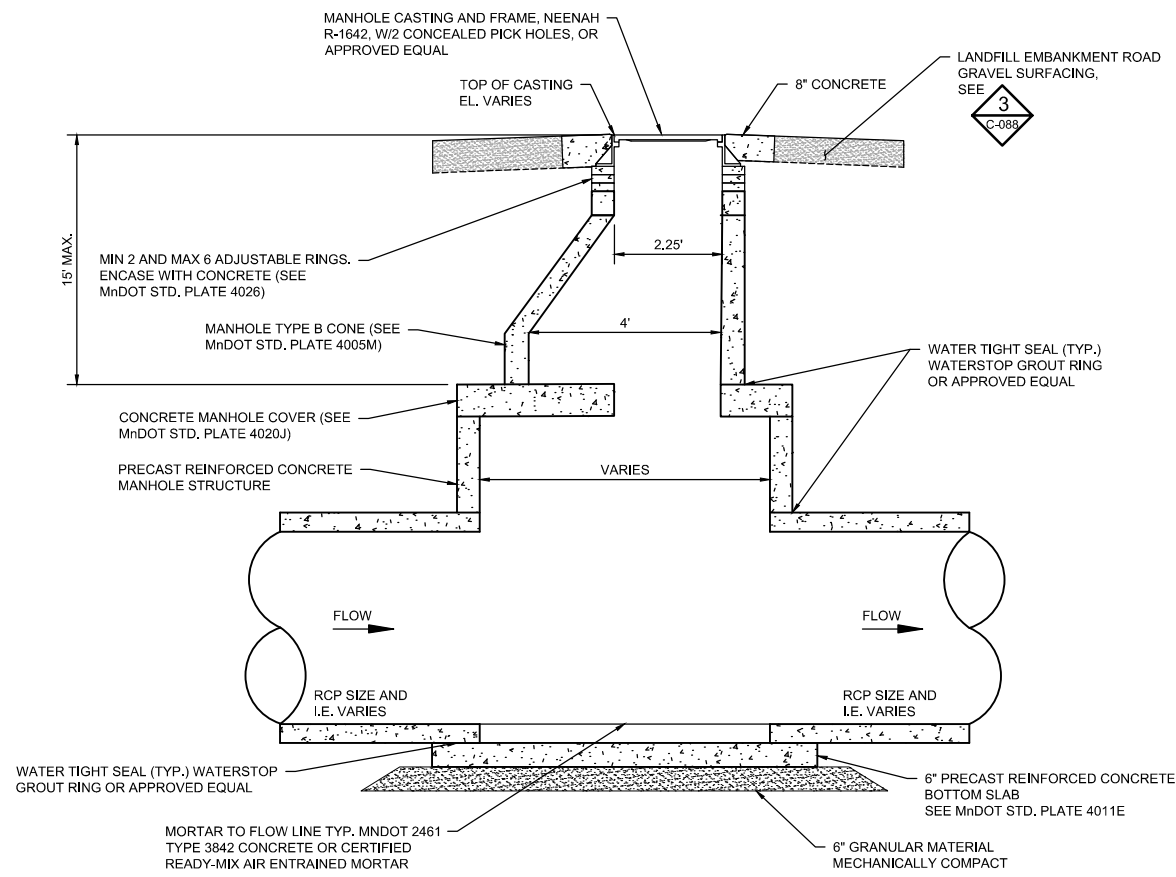
BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-165
REV. No.	B



1 PLAN: STANDARD STORMWATER MANHOLE
SCALE IN FEET



2 SECTION: STANDARD STORMWATER MANHOLE
SCALE IN FEET



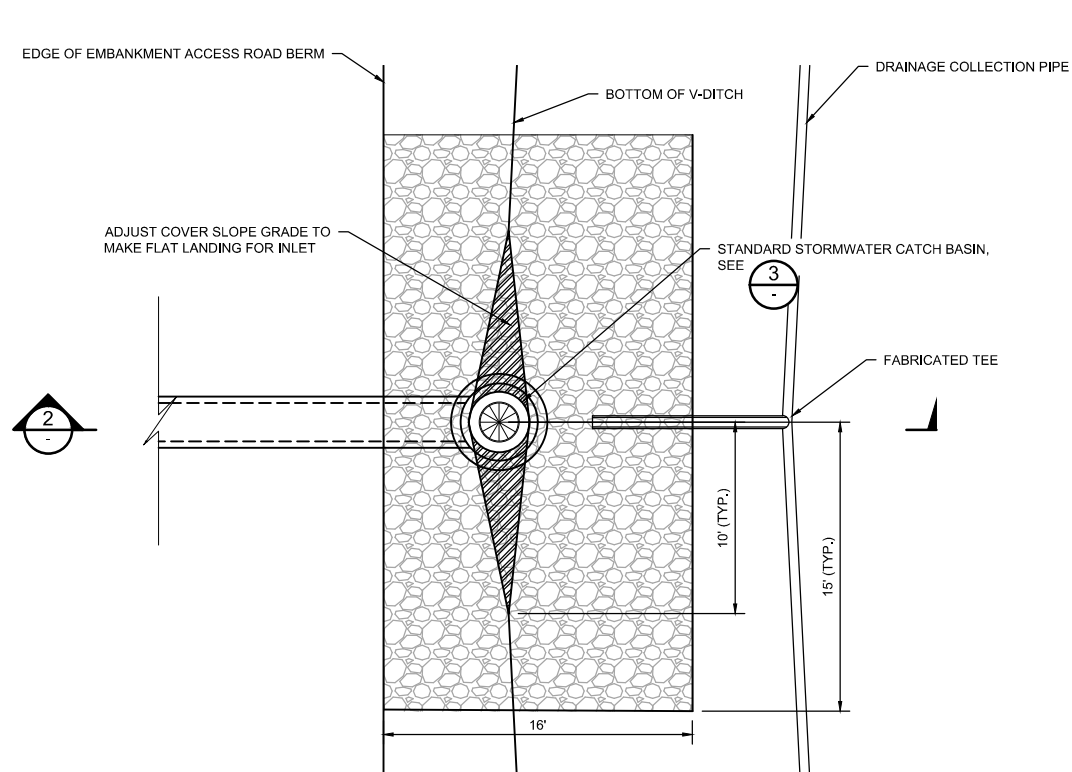
3 SECTION: STANDARD STORMWATER MANHOLE WITH COVER REDUCER
SCALE IN FEET

- NOTES:
- FOR STORMWATER STRUCTURE SCHEDULE, SEE SHEET C-169.
 - FOR PIPE SIZES, SEE SHEET C-081 THROUGH C-086.
 - INSTALL STORMWATER PIPING AND MANHOLES PER SPECIFICATIONS 33 05 28 AND 33 40 00.

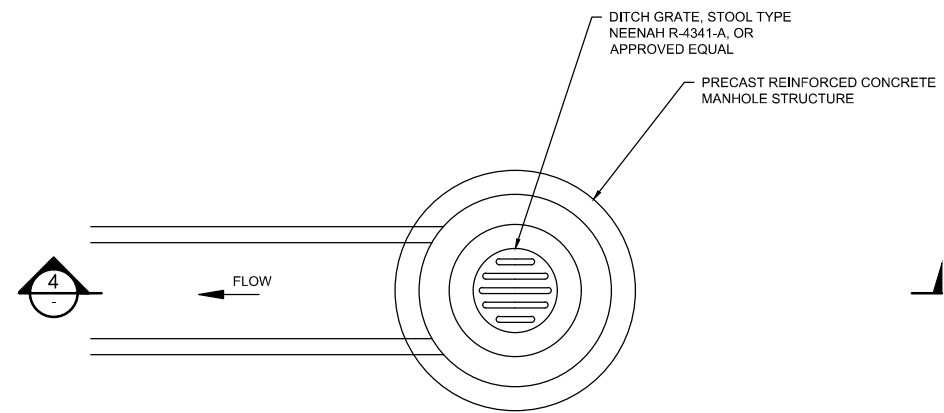
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06/30/2022

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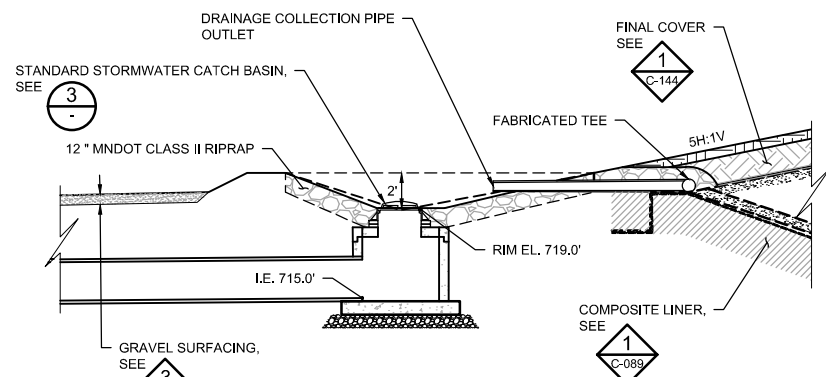
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE #: _____		CLIENT: BARR ENGINEERING CO. BID: 23/19-1372.00 CONSTRUCTION: _____ RELEASED TO/FOR: _____ DATE RELEASED: _____	Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	Scale: AS SHOWN Date: 06/12/2020 Drawn: ADB2 Checked: BDP Designed: BARR Approved: _____	FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA STORMWATER MANHOLE PLAN AND SECTION	BARR PROJECT No. 23/19-1372.00 CLIENT PROJECT No. DWG. No. C-166 REV. No. B
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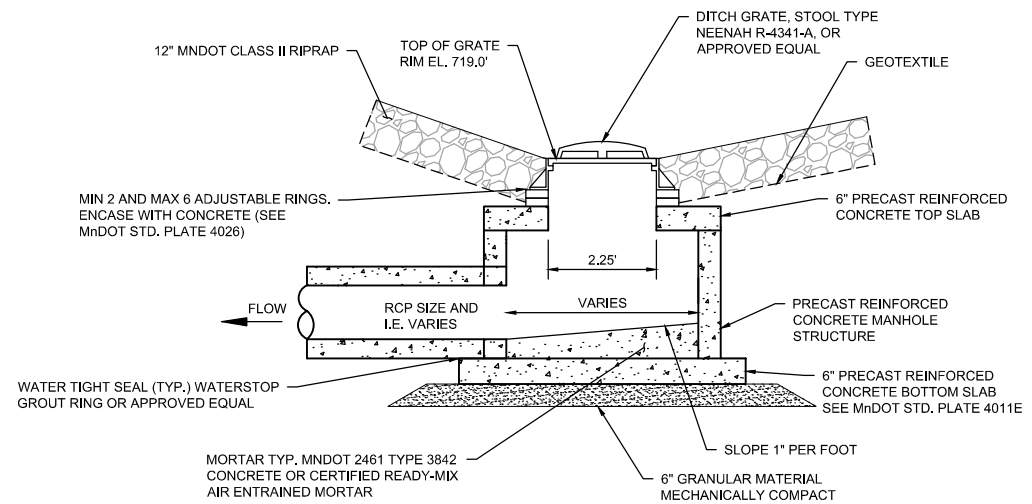
1 PLAN: STANDARD CATCH BASIN
NOT TO SCALE



3 PLAN: STANDARD CATCH BASIN STRUCTURE
SCALE IN FEET



2 SECTION: STANDARD CATCH BASIN
NOT TO SCALE



4 SECTION: STANDARD CATCH BASIN STRUCTURE
SCALE IN FEET

NOTES:

- FOR STORMWATER STRUCTURE SCHEDULE, SEE SHEET C-169.
- FOR PIPE SIZES, SEE SHEET C-081 THROUGH C-086.
- INSTALL STORMWATER PIPING AND MANHOLES PER SPECIFICATIONS 33 05 28 AND 33 40 00.
- INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13.
- PLACE RIPRAP PER SPECIFICATION 31 37 00.
- PLACE COMMON FILL, GRANULAR FILTER, PIPE BEDDING, AND TOPSOIL PER SPECIFICATIONS 31 23 00 AND 31 23 23.

CADD USER: Zach A. Nelson FILE: M:\DESIGN\23191372\05\2319137205_LINE_C-167.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 11:37 AM
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SIGNATURE: _____
DATE: _____ LICENSE # _____

CLIENT	06/30/2021	06/30/2022							
BID									
CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

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Checked	BDP
Designed	BARR
Approved	-

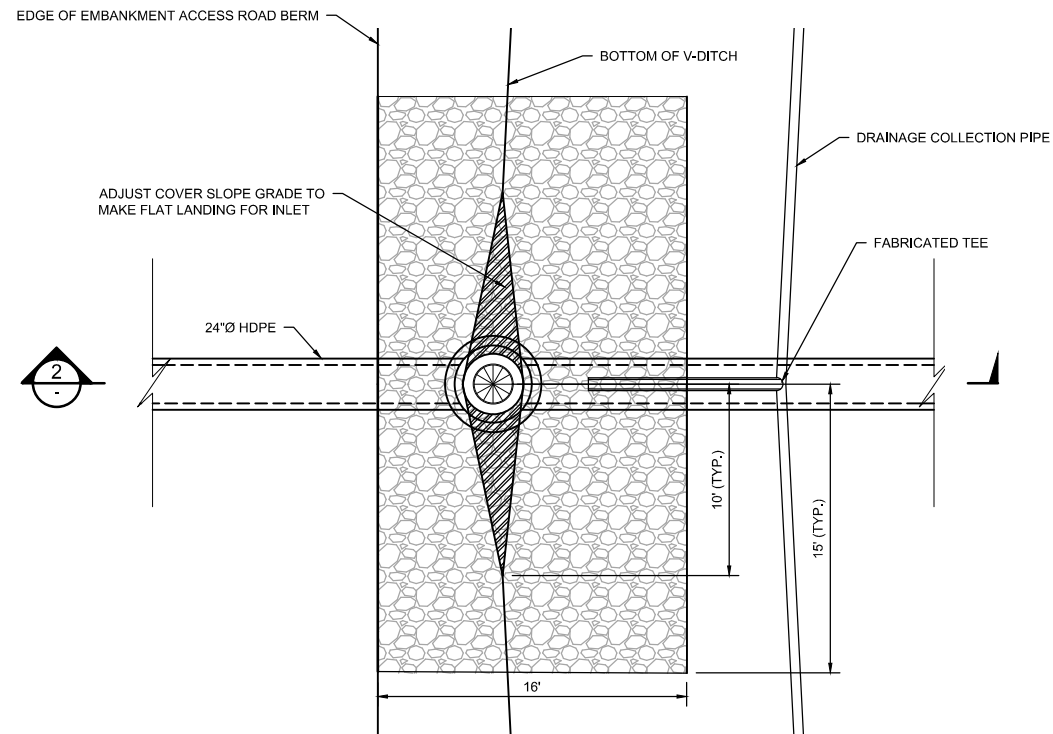


FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

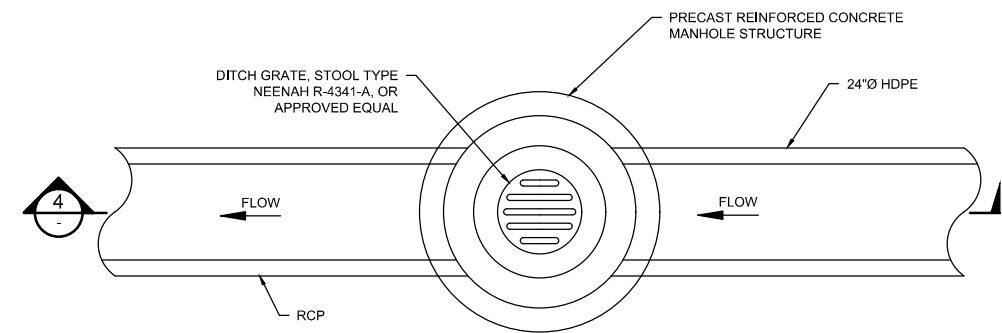
STORMWATER CATCH BASIN
PLAN AND SECTIONS

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-167
REV. No.	B

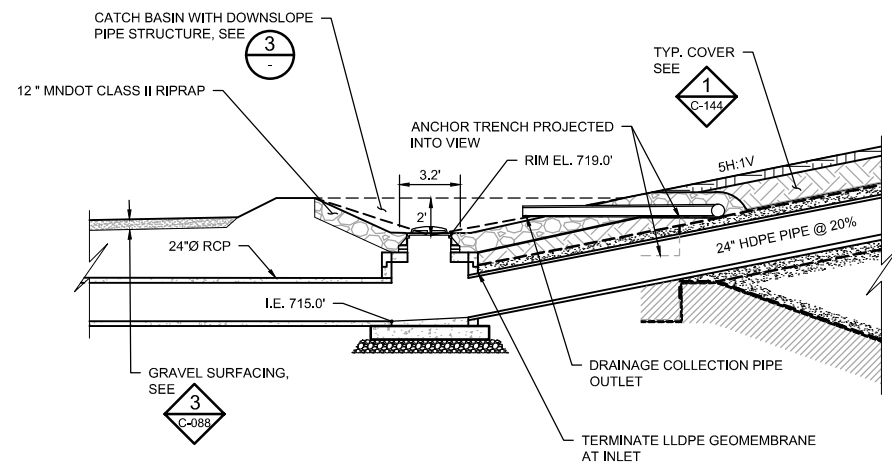
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06/30/2022



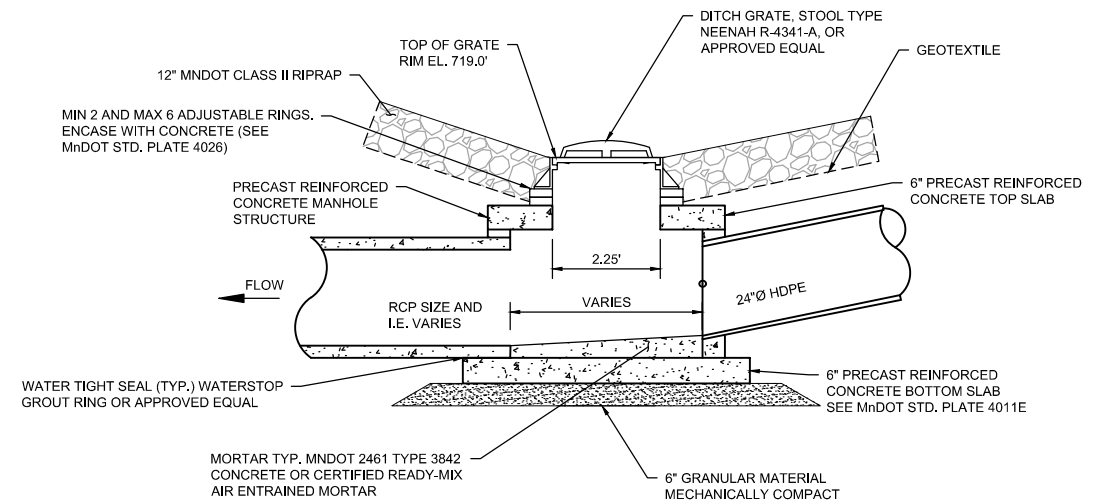
1 PLAN: CATCH BASIN WITH DOWNSLOPE PIPE
NOT TO SCALE



3 PLAN: CATCH BASIN WITH DOWNSLOPE PIPE STRUCTURE
SCALE IN FEET



2 SECTION: CATCH BASIN WITH DOWNSLOPE PIPE
NOT TO SCALE



4 SECTION: CATCH BASIN WITH DOWNSLOPE PIPE STRUCTURE
SCALE IN FEET

NOTES:

- FOR STORMWATER STRUCTURE SCHEDULE, SEE SHEET C-169.
- FOR PIPE SIZES, SEE SHEET C-081 THROUGH C-086.
- INSTALL STORMWATER PIPING PER SPECIFICATIONS 33 05 28 AND 33 40 00.
- INSTALL GEOTEXTILE PER SPECIFICATION 31 05 19.13.
- PLACE RIPRAP PER SPECIFICATION 31 37 00.
- PLACE COMMON FILL, GRANULAR FILTER, PIPE BEDDING, AND TOPSOIL PER SPECIFICATIONS 31 23 00 AND 31 23 23.

CADD USER: Zach J. Nelson FILE: M:\DESIGN\23191372_05\2319137205_LINE_C-168.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 11:17 AM
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SIGNATURE: _____
DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED

Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
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MINNEAPOLIS, MN 55435

Corporate Headquarters:
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Ph: 1-800-632-2277
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Ph: 1-800-632-2277
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Scale	AS SHOWN
Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-

MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

STORMWATER CATCH BASIN WITH DOWNSLOPE PIPE
PLANS AND SECTIONS

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-168
REV. No.	B

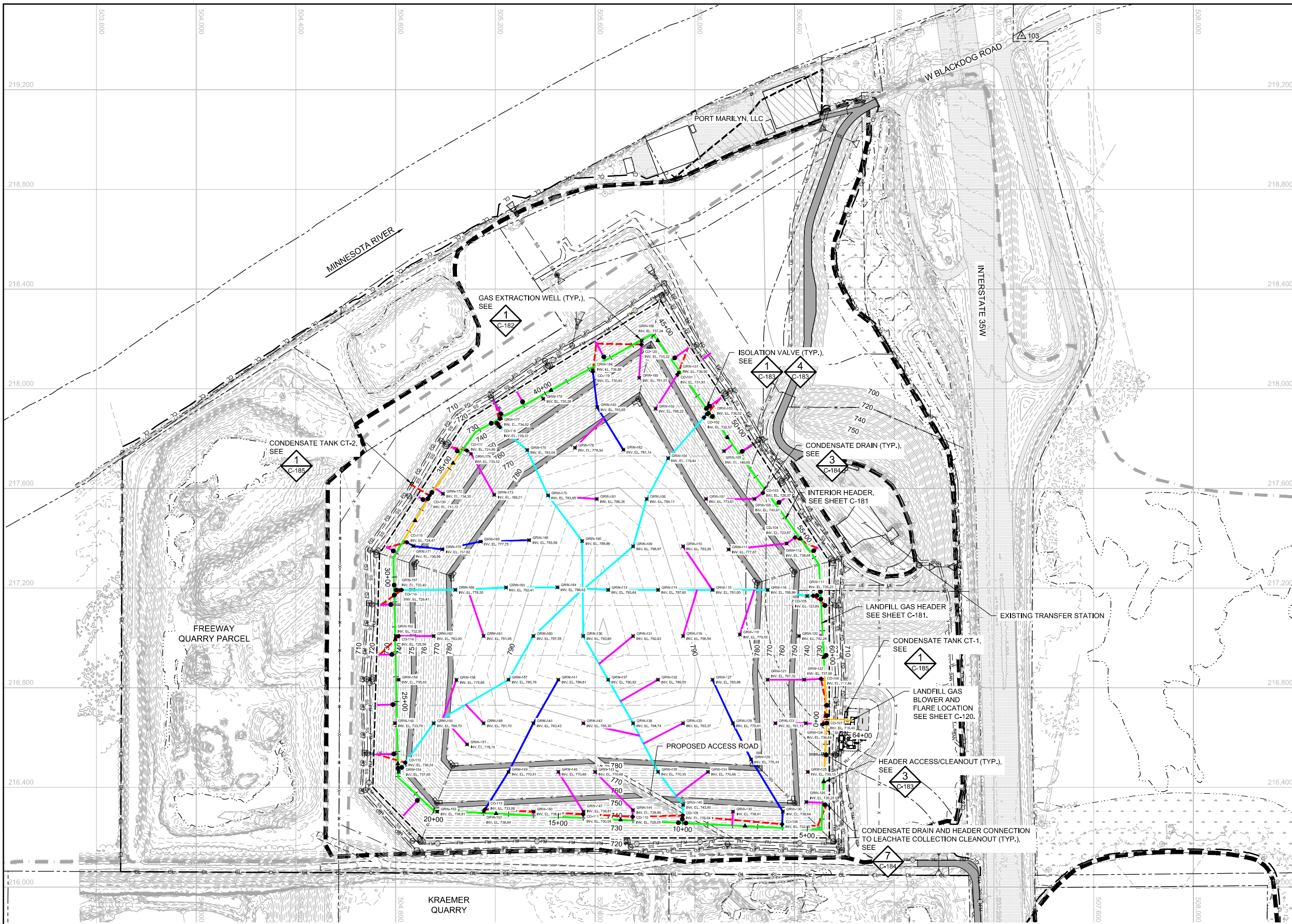
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 BAR: M:\AutoCAD 2011\AutoCAD 2011\Support\enu\TemplateBar_2011_Template.dwt Plot at 1: 10/05/2010 14:09:50

STRUCTURE ID	DESCRIPTION	DETAIL	STRUCTURE	CASTING AND FRAME	RIM EL.	BOTTOM EL.
MH-1	STANDARD MANHOLE	C-166, PLAN 1	96"Ø CONC MH	NEENAH R-1642	719.75	699.98
MH-1A	DOWNSLOPE INLET AT TOE	C-168, PLAN 1	48"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-1B	DOWNSLOPE INLET AT MIDSLOPE	C-143, PLAN 4	48"Ø SDR HDPE MH	NEENAH R-4341-A	750.00	743.50
MH-1C	DOWNSLOPE INLET AT CREST	C-143, PLAN 1	48"Ø SDR HDPE MH	NEENAH R-4341-A	780.00 (FIELD VERIFY)	773.50 (FIELD VERIFY)
MH-2	STANDARD MANHOLE	C-166, PLAN 1	96"Ø CONC MH	NEENAH R-1642	719.61	702.59
MH-3	STANDARD MANHOLE	C-166, PLAN 1	96"Ø CONC MH	NEENAH R-1642	719.75	703.51
MH-3A	STORMWATER CATCH BASIN	C-167, PLAN 1	27"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-4	STANDARD MANHOLE	C-166, PLAN 1	96"Ø CONC MH	NEENAH R-1642	719.75	704.42
MH-5	STANDARD MANHOLE	C-166, PLAN 1	96"Ø CONC MH	NEENAH R-1642	719.75	705.18
MH-5A	STORMWATER CATCH BASIN	C-167, PLAN 1	27"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-6	STANDARD MANHOLE	C-166, PLAN 1	84"Ø CONC MH	NEENAH R-1642	719.75	705.93
MH-7	STANDARD MANHOLE	C-166, PLAN 1	84"Ø CONC MH	NEENAH R-1642	719.75	706.73
MH-7A	STORMWATER CATCH BASIN	C-167, PLAN 1	48"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-7B	DOWNSLOPE INLET AT MIDSLOPE	C-143, PLAN 4	48"Ø SDR HDPE MH	NEENAH R-4341-A	750.00	743.50
MH-7C	DOWNSLOPE INLET AT CREST	C-143, PLAN 1	48"Ø SDR HDPE MH	NEENAH R-4341-A	780.00 (FIELD VERIFY)	773.50 (FIELD VERIFY)
MH-8	STANDARD MANHOLE	C-166, PLAN 1	72"Ø CONC MH	NEENAH R-1642	719.75	707.48
MH-9	STANDARD MANHOLE	C-166, PLAN 1	72"Ø CONC MH	NEENAH R-1642	719.75	708.68
MH-9A	STORMWATER CATCH BASIN	C-167, PLAN 1	27"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-10	STANDARD MANHOLE	C-166, PLAN 1	72"Ø CONC MH	NEENAH R-1642	719.75	709.88
MH-10A	STANDARD MANHOLE	C-166, PLAN 1	84"Ø CONC MH	NEENAH R-1642	719.75	711.36
MH-11	STANDARD MANHOLE	C-166, PLAN 1	96"Ø CONC MH	NEENAH R-1642	719.75	711.45
MH-11A	STORMWATER CATCH BASIN	C-167, PLAN 1	48"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-11B	DOWNSLOPE INLET AT MIDSLOPE	C-143, PLAN 4	48"Ø SDR HDPE MH	NEENAH R-4341-A	750.00	743.50
MH-11C	DOWNSLOPE INLET AT CREST	C-143, PLAN 1	48"Ø SDR HDPE MH	NEENAH R-4341-A	780.00 (FIELD VERIFY)	773.50 (FIELD VERIFY)
MH-12	STANDARD MANHOLE	C-166, PLAN 1	60"Ø CONC MH	NEENAH R-1642	723.80	713.24
MH-13	STANDARD MANHOLE	C-166, PLAN 1	60"Ø CONC MH	NEENAH R-1642	719.75	714.88
MH-13A	STORMWATER CATCH BASIN	C-167, PLAN 1	48"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-14	STANDARD MANHOLE	C-166, PLAN 1	72"Ø CONC MH	NEENAH R-1642	719.75	714.86
MH-14A	STORMWATER CATCH BASIN	C-167, PLAN 1	48"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-14B	DOWNSLOPE INLET AT MIDSLOPE	C-143, PLAN 4	48"Ø SDR HDPE MH	NEENAH R-4341-A	750.00	743.50
MH-14C	DOWNSLOPE INLET AT CREST	C-143, PLAN 1	48"Ø SDR HDPE MH	NEENAH R-4341-A	780.00 (FIELD VERIFY)	773.50 (FIELD VERIFY)
MH-15	STANDARD MANHOLE	C-166, PLAN 1	72"Ø CONC MH	NEENAH R-1642	719.75	713.75
MH-16	STANDARD MANHOLE	C-166, PLAN 1	72"Ø CONC MH	NEENAH R-1642	719.75	713.16
MH-17	STANDARD MANHOLE	C-166, PLAN 1	84"Ø CONC MH	NEENAH R-1642	719.75	711.97
MH-17A	STORMWATER CATCH BASIN	C-167, PLAN 1	27"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-18	STANDARD MANHOLE	C-166, PLAN 1	72"Ø CONC MH	NEENAH R-1642	719.75	710.77
MH-19	STANDARD MANHOLE	C-166, PLAN 1	96"Ø CONC MH	NEENAH R-1642	719.75	709.90
MH-19A	STORMWATER CATCH BASIN	C-167, PLAN 1	48"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-19B	DOWNSLOPE INLET AT MIDSLOPE	C-143, PLAN 4	48"Ø SDR HDPE MH	NEENAH R-4341-A	750.00	743.50
MH-19C	DOWNSLOPE INLET AT CREST	C-143, PLAN 1	48"Ø SDR HDPE MH	NEENAH R-4341-A	780.00 (FIELD VERIFY)	773.50 (FIELD VERIFY)
MH-20	STANDARD MANHOLE	C-166, PLAN 1	84"Ø CONC MH	NEENAH R-1642	719.75	708.83
MH-21	STANDARD MANHOLE	C-166, PLAN 1	84"Ø CONC MH	NEENAH R-1642	719.75	707.80
MH-21A	STORMWATER CATCH BASIN	C-167, PLAN 1	27"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-22	STANDARD MANHOLE	C-166, PLAN 1	84"Ø CONC MH	NEENAH R-1642	719.75	707.30
MH-23	STANDARD MANHOLE	C-166, PLAN 1	84"Ø CONC MH	NEENAH R-1642	719.75	706.72
MH-24	STANDARD MANHOLE	C-166, PLAN 1	96"Ø CONC MH	NEENAH R-1642	719.75	705.67
MH-24A	STORMWATER CATCH BASIN	C-167, PLAN 1	27"Ø CONC MH	NEENAH R-4341-A	719.00	715.00
MH-25	STANDARD MANHOLE	C-166, PLAN 1	96"Ø CONC MH	NEENAH R-1642	719.75	700.01
MH-26	STORMWATER POND OUTLET	C-164, PLAN 1	72"Ø CONC MH	CUSTOM HOT-DIPPED GALVANIZED GRATE	VARIABLE, SEE DETAIL	695.00

1 TABLE: STORMWATER STRUCTURE SCHEDULE
 C-160, C-161, C-166, C-167, C-168

100% DRAFT
 NOT FOR CONSTRUCTION
 06/30/2022

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE # _____					CLIENT: BARR ENGINEERING CO. BID: 23181372 CONSTRUCTION:				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				Scale: AS SHOWN Date: 06/12/2020 Drawn: ADB2 Checked: BDP Designed: BARR Approved:		FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA BARR PROJECT No. 23/19-1372.00 CLIENT PROJECT No.	
					NO. BY CHK. APP. DATE REVISION DESCRIPTION		RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:						STORMWATER STRUCTURE SCHEDULE DWG. No. C-169 REV. No. B			



LEGEND

- CL - CL CONSTRUCTION LIMITS
- PROPERTY BOUNDARY
- EXISTING FLOODWAY BOUNDARY
- EXISTING WATERLINE (2020-06-12)
- 740 10-FOOT CONTOUR
- 2-FOOT CONTOUR
- OE OE EXISTING OVERHEAD ELECTRIC
- UE UE EXISTING UNDERGROUND ELECTRIC
- W W EXISTING POTABLE
- SS SS EXISTING STORM
- SS SS EXISTING CULVERT
- SAN SAN EXISTING SANITARY
- X X EXISTING CHAIN LINK FENCE
- EXISTING TREE LINE
- APPROXIMATE LIMITS OF WASTE REMOVAL
- APPROXIMATE LIMITS OF WASTE TO REMAIN
- EXISTING BUILDING
- WETLANDS
- EXISTING BITUMINOUS PAVEMENT
- EXISTING GRAVEL PAVEMENT
- ⊕ EXISTING MONITORING WELL
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING LIGHT POLE
- ⊙ EXISTING ELECTRIC PEDESTAL
- ⊙ EXISTING WATER MANHOLE
- ⊙ EXISTING PIV
- ⊙ EXISTING GATE VALVE
- ⊙ EXISTING FIRE HYDRANT
- ⊙ EXISTING STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ EXISTING COMMUNICATIONS BOX
- ⊙ EXISTING SIGN
- ⊙ EXISTING BOLLARD
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED GRAVEL PAVEMENT
- PROPOSED DRAINAGE DIVIDE LINE
- PROPOSED CHAIN LINK FENCE
- PROPOSED LEACHATE COLLECTION PIPE
- PROPOSED 4" HDPE DR 17
- PROPOSED 6" HDPE DR 17
- PROPOSED 8" HDPE DR 17
- PROPOSED 12" HDPE DR 17
- PROPOSED 18" HDPE DR 17
- PROPOSED 6" HDPE DR 17 CONDENSATE DRAIN
- SS SS PROPOSED CULVERT
- PROPOSED GATE
- GAS FLOW DIRECTION
- ⊙ VERTICAL LFG EXTRACTION WELL
- PROPOSED SLOPE DRAINAGE BERM
- ◆ PROPOSED CONDENSATE DRAIN
- PROPOSED ISOLATION VALVE
- ▲ PROPOSED HEADER ACCESS/CLEANOUT

NOTES:

- FOR LOCATIONS AND ELEVATIONS FOR LFG EXTRACTION WELLS SEE SHEET C-186.
- FOR LOCATIONS AND ELEVATIONS FOR CONDENSATE DRAINS SEE SHEET C-186.
- CONTOURS SHOWN REPRESENT TOP OF FINISHED GROUND.

1 PLAN: LANDFILL GAS COLLECTION SYSTEM

0 200 400
SCALE IN FEET

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

CADD USER: Anders W. Tolkmann FILE: M:\DESIGN\23191372\062319137205_LINE_C-180.DWG PLOT SCALE: 1:20001 PLOT DATE: 06/30/2022 4:16 PM
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PRINTED NAME: _____
 SIGNATURE: _____
 DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	A	B	C	0	1	2	3
6/30/2021	6/30/2021									

BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 SUITE 200
 MINNEAPOLIS, MN 55435
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

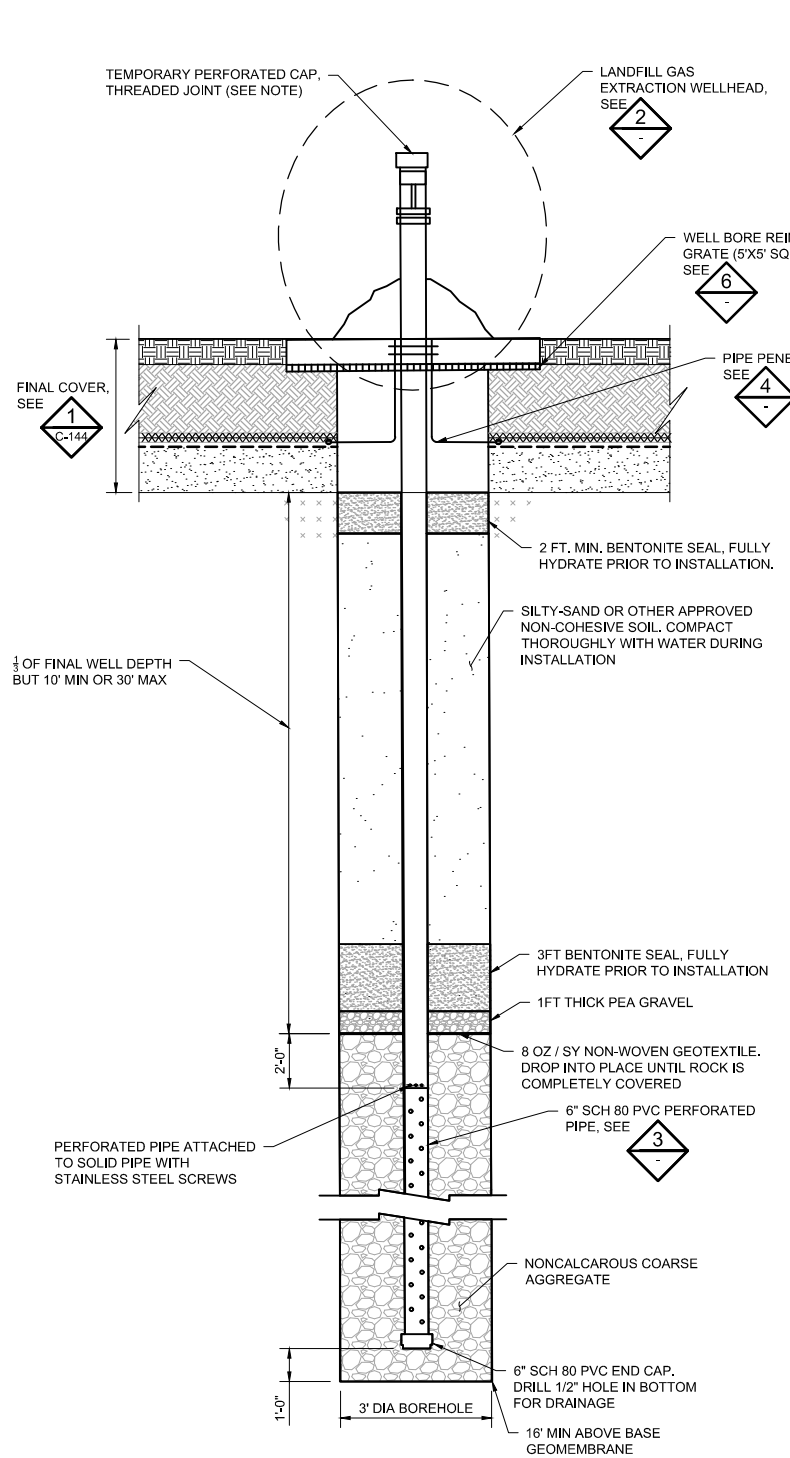
Scale	AS SHOWN
Date	01/20/2020
Drawn	TJK
Checked	JCB2
Designed	BARR
Approved	-

MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA

LANDFILL GAS COLLECTION SYSTEM
 PLAN

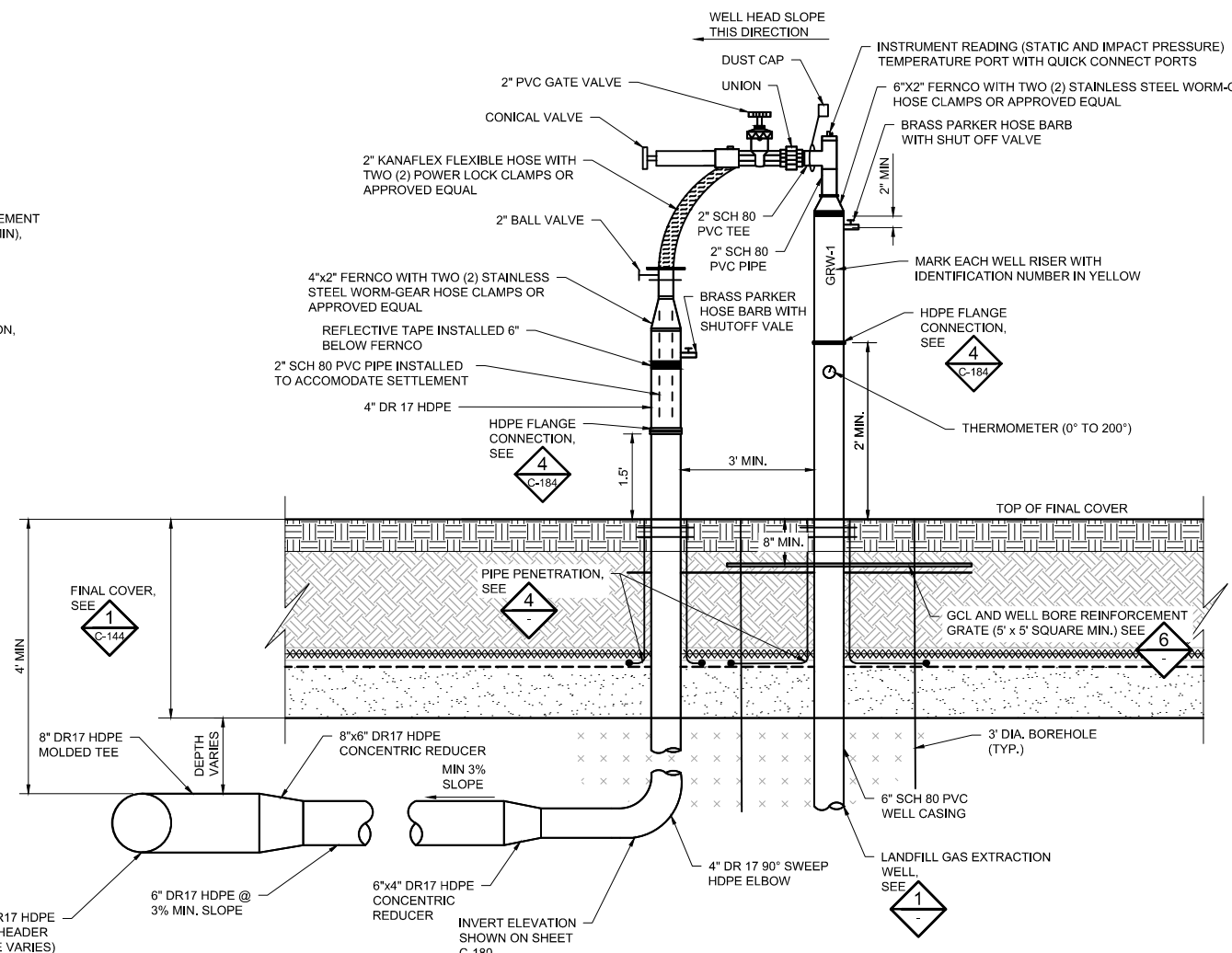
BARR PROJECT No.	2319-1372.00
CLIENT PROJECT No.	
DWG. No.	C-180
REV. No.	B



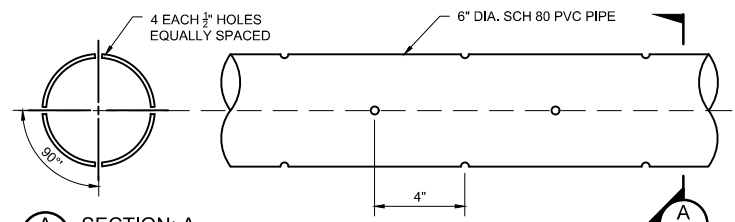
1 - DETAIL: VERTICAL LFG EXTRACTION WELL
NOT TO SCALE

NOTE:

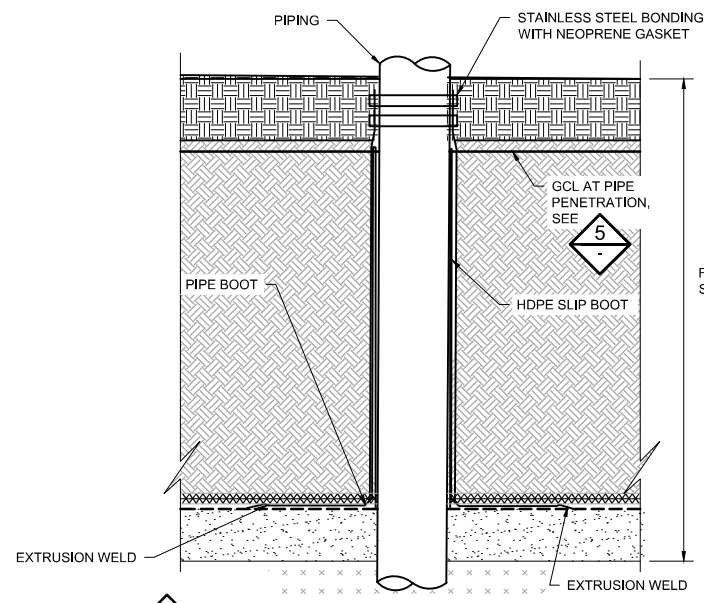
TEMPORARY 6" THREADED PVC CAP TO BE INSTALLED AFTER WELL INSTALLTION. REMOVE AND INSTALL WELLHEAD TO HEADER FOR COMPLETION



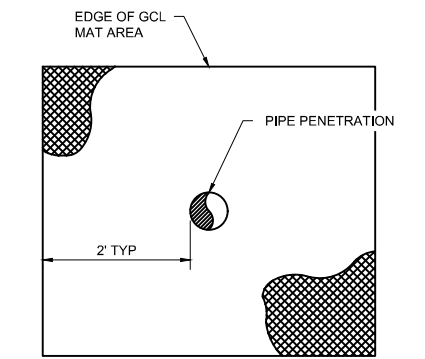
2 - DETAIL: LANDFILL GAS EXTRACTION WELLHEAD
NOT TO SCALE



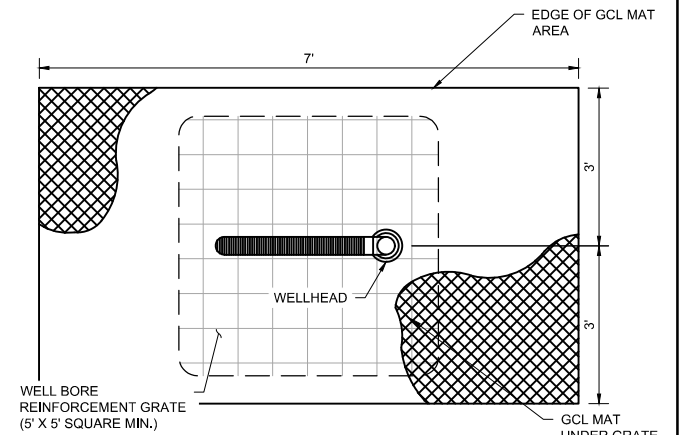
3 - DETAIL: GAS WELL PIPE PERFORATIONS
NOT TO SCALE



4 - DETAIL: PIPE PENETRATION (TYP.)
NOT TO SCALE



5 - DETAIL: GCL AT PIPE PENETRATIONS
NOT TO SCALE



6 - DETAIL: WELL BORE REINFORCEMENT GRATE
NOT TO SCALE

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME _____

SIGNATURE _____

DATE _____ LICENSE # _____

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
06/30/2021	06/30/2021		A B C 0 1 2 3	

BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435

Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435

Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	06/12/2020
Drawn	ADB2
Checked	JCB2
Designed	BARR
Approved	

MINNESOTA POLLUTION CONTROL AGENCY

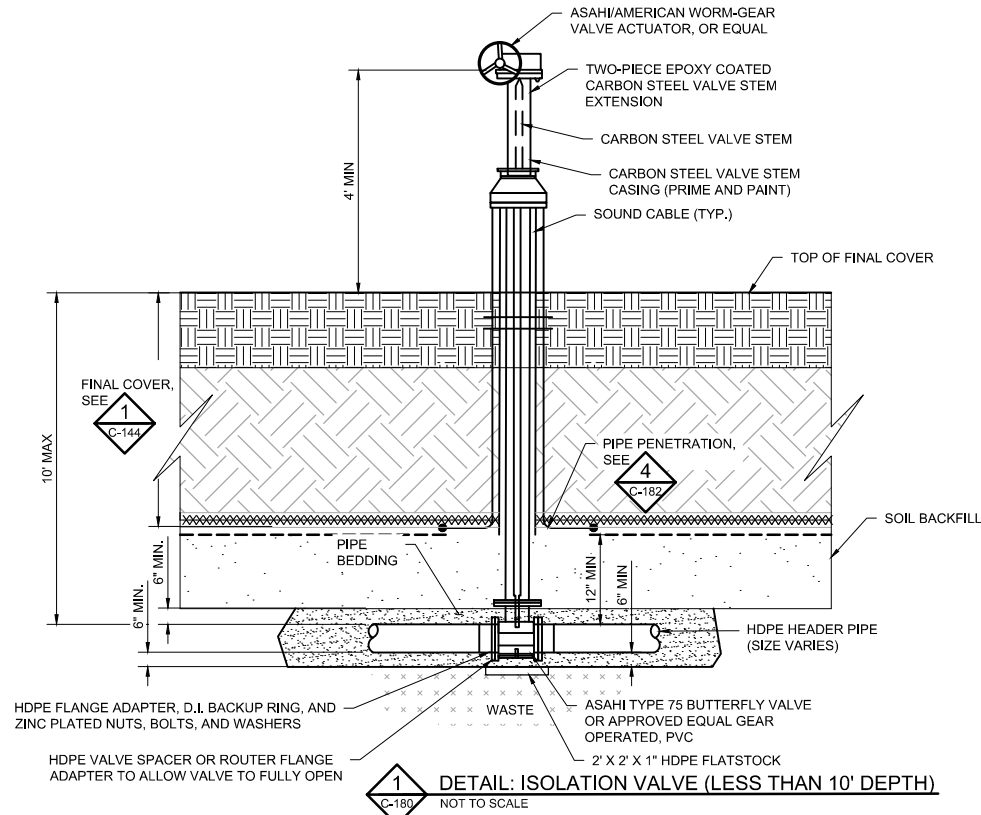
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

LANDFILL GAS EXTRACTION DETAILS

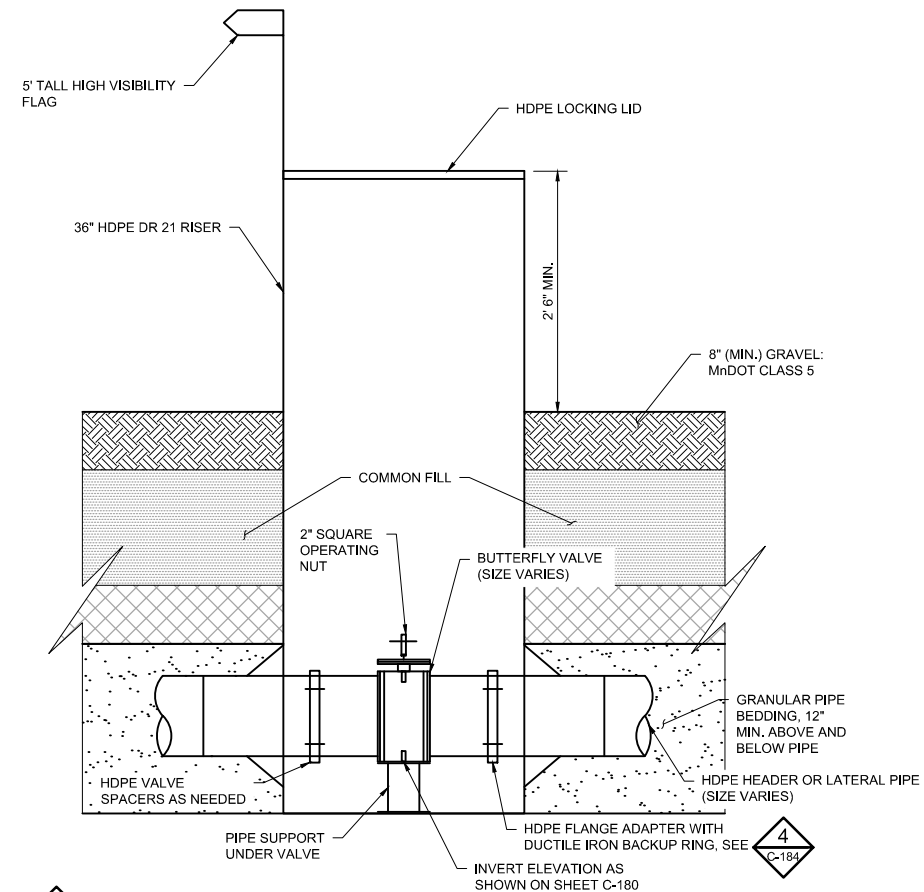
BARR PROJECT No. 23/19-1372.00	REV. No. B
CLIENT PROJECT No.	DWG. No. C-182

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

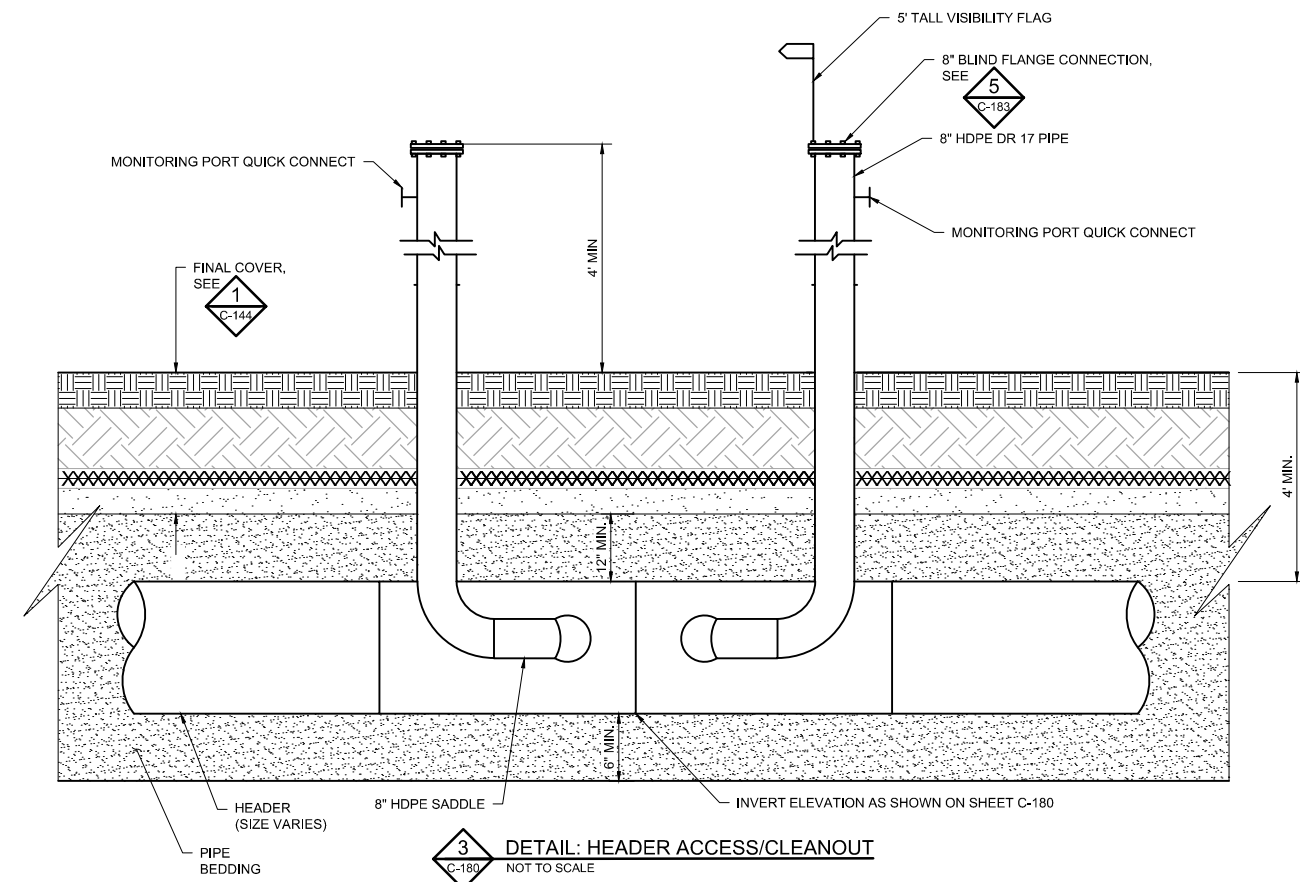
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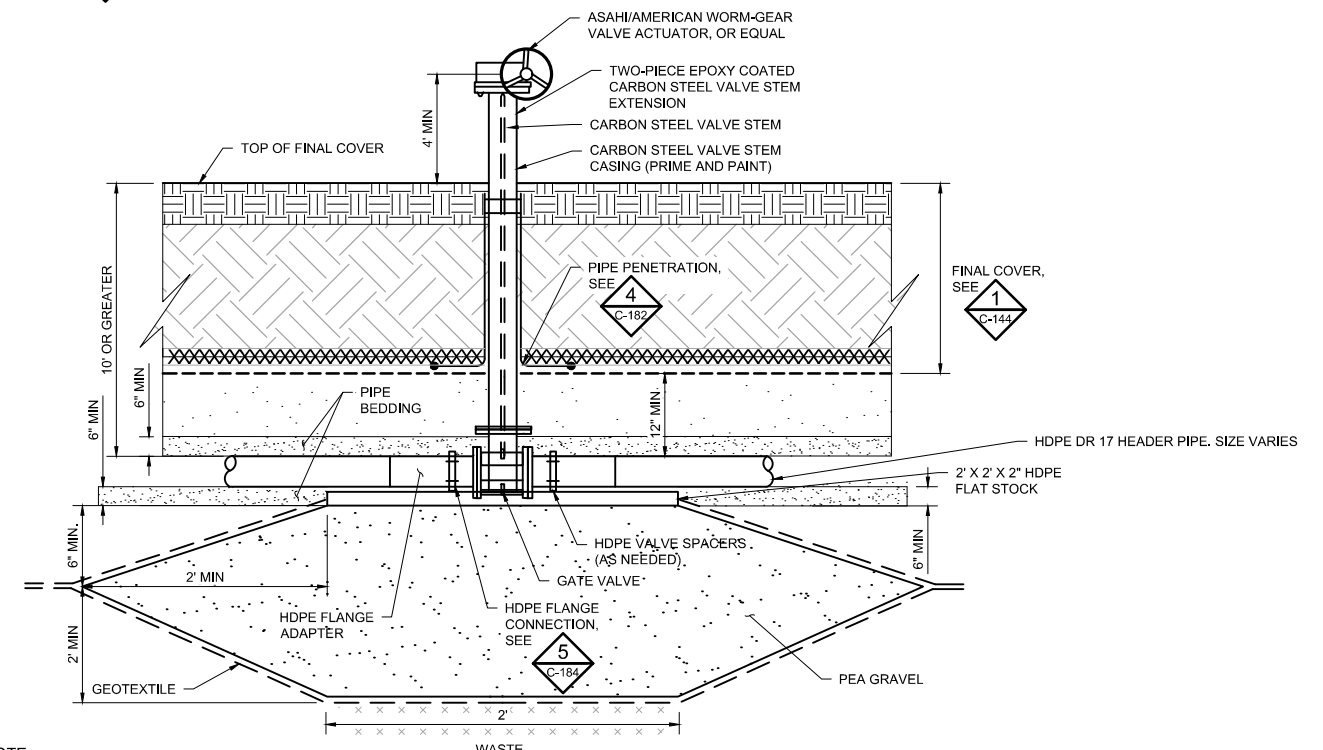
1 DETAIL: ISOLATION VALVE (LESS THAN 10' DEPTH)
C-180 NOT TO SCALE



2 DETAIL: UNDERGROUND CONTROL VALVE (OUTSIDE WASTE FOOTPRINT)
C-180 NOT TO SCALE



3 DETAIL: HEADER ACCESS/CLEANOUT
C-180 NOT TO SCALE



4 DETAIL: ISOLATION VALVE (10' DEPTH AND GREATER)
C-180 NOT TO SCALE

NOTE:
1. ADD 2\"/>

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

CADD USER: Zach A. Nelson FILE: M:\DESIGN\23191372\0502319137205_LINE_C-183.DWG PLOT SCALE: 1:2,000 PLOT DATE: 02/28/2022 4:59 PM
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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PRINTED NAME: _____
SIGNATURE: _____
DATE: _____ LICENSE #: _____

CLIENT	06/30/2021	06/30/2022							
BID									
CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

BARR Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

Corporate Headquarters:
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Ph: 1-800-632-2277
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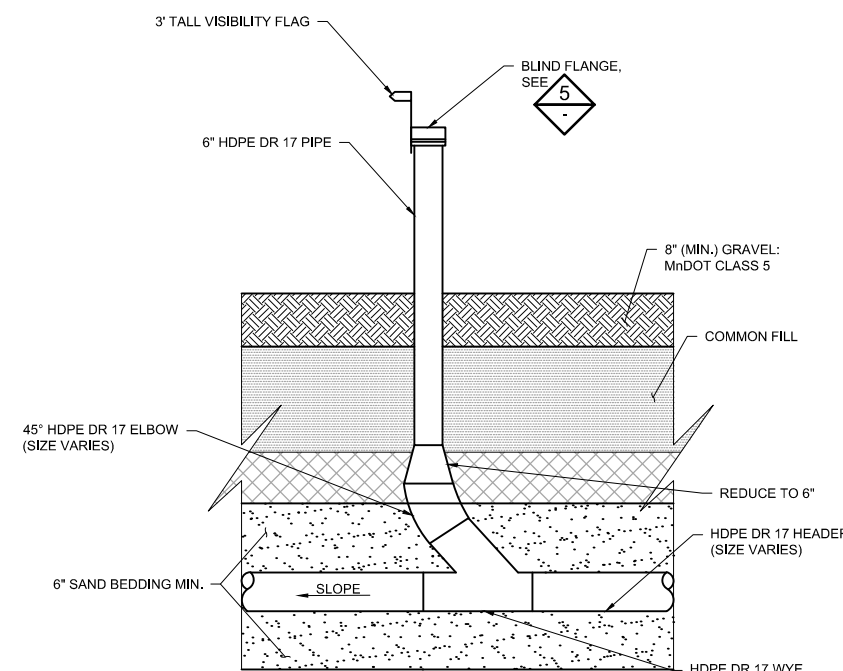
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Date	06/12/2020
Drawn	ADB2
Checked	JCB2
Designed	BARR
Approved	-

MINNESOTA POLLUTION CONTROL AGENCY

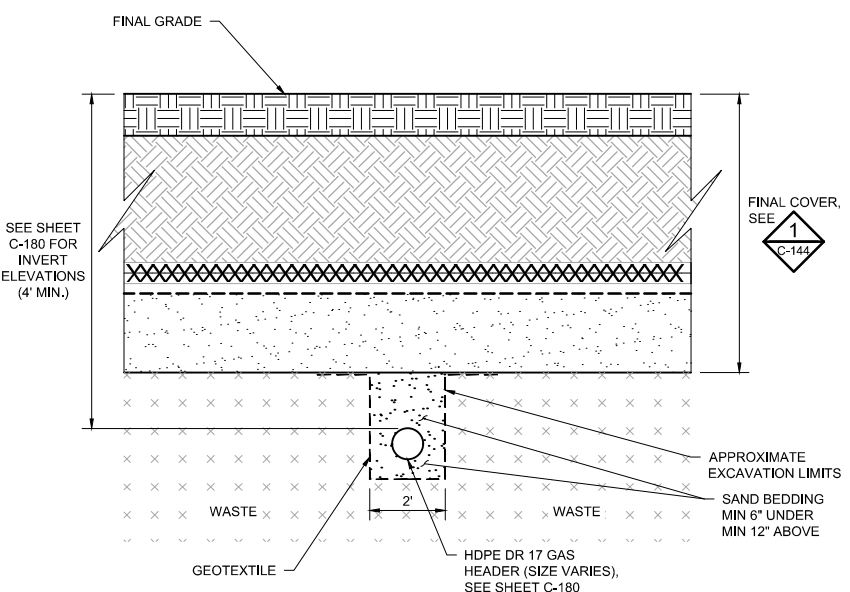
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

LANDFILL GAS SYSTEM
DETAILS

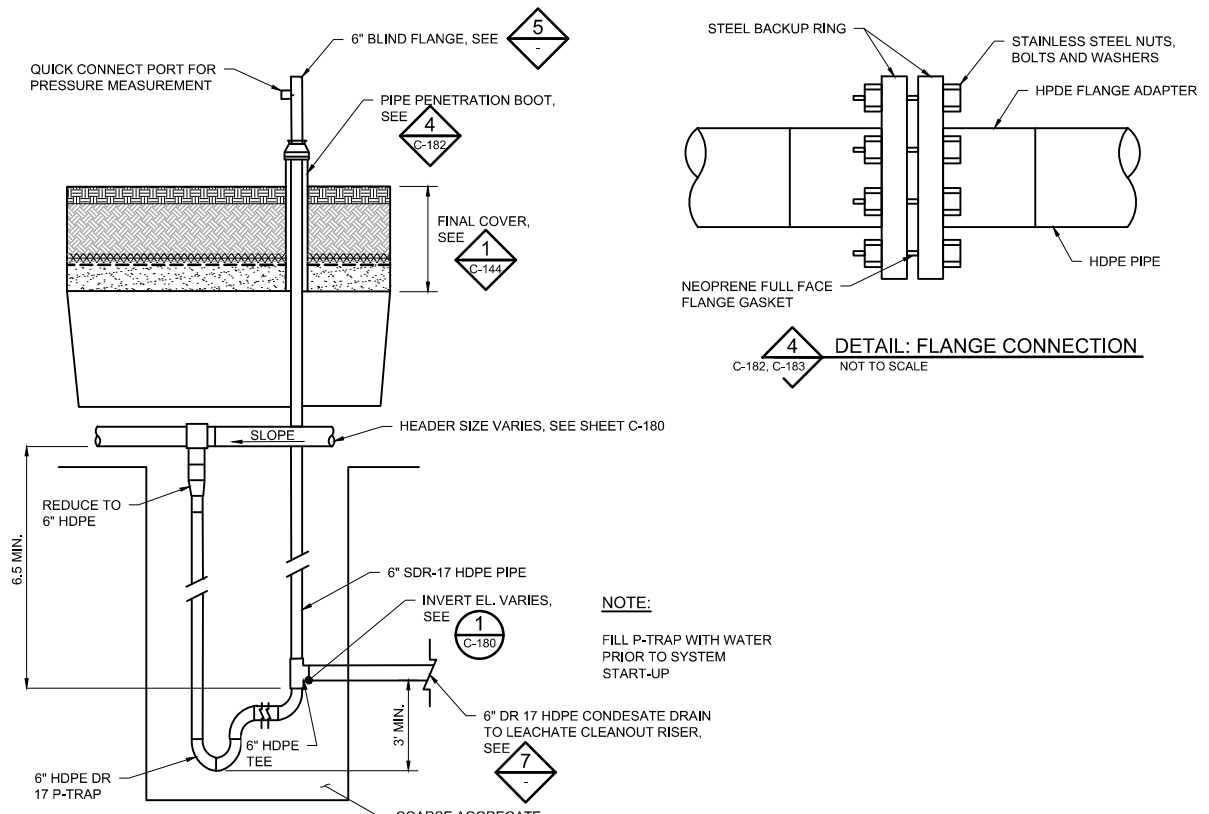
BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-183
REV. No.	B



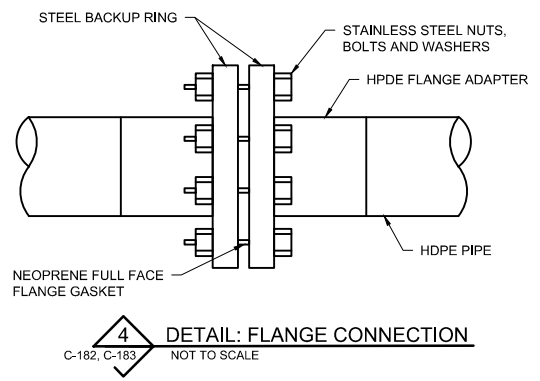
1 DETAIL: HEADER ACCESS PIPE OUTSIDE WASTE BOUNDARIES
NOT TO SCALE



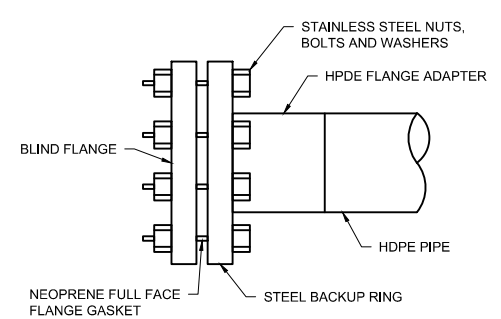
2 DETAIL: GAS HEADER TRENCHING IN WASTE AREA
NOT TO SCALE



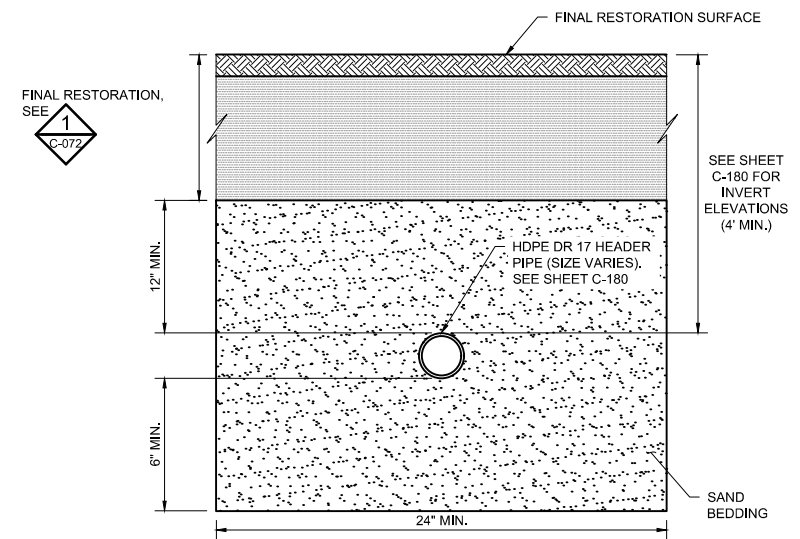
3 DETAIL: CONDENSATE DRAIN
NOT TO SCALE



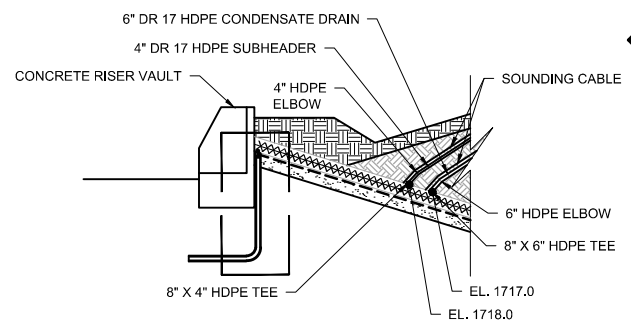
4 DETAIL: FLANGE CONNECTION
NOT TO SCALE



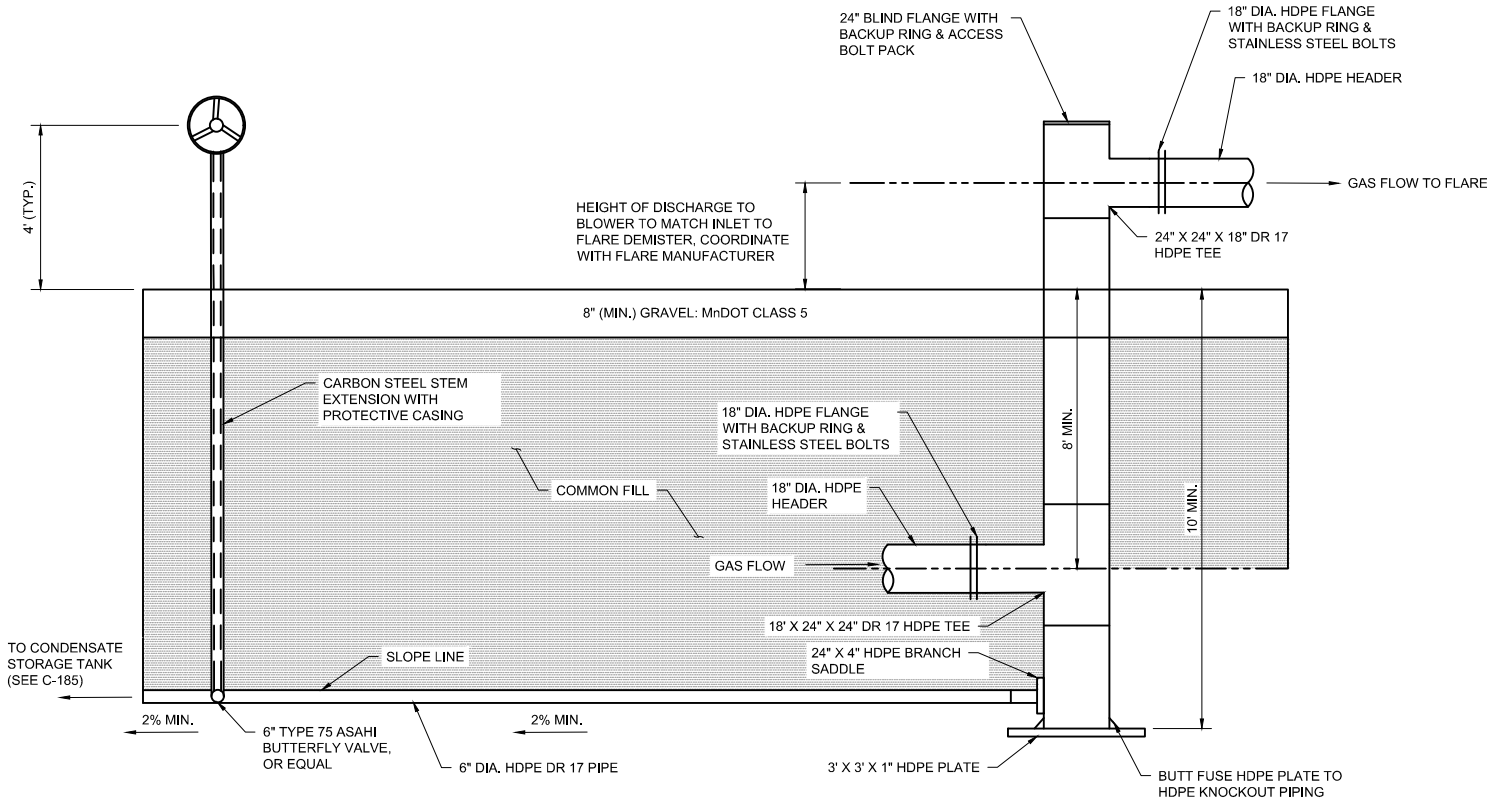
5 DETAIL: BLIND FLANGE
NOT TO SCALE



6 DETAIL: GAS HEADER TRENCH OUTSIDE WASTE BOUNDARIES
NOT TO SCALE



7 DETAIL: DRAIN TO LEACHATE COLLECTION CLEANOUT
NOT TO SCALE



8 DETAIL: FLARE CONDENSATE KNOCKOUT
NOT TO SCALE

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

CADD USER: Zach A. Nelson FILE: M:\DESIGN\23191372_0502319137205_LINE_C-184.DWG PLOT SCALE: 1:2,000 PLOT DATE: 02/28/2022 4:35 PM
 BARR M:\AutoCAD 2011\AutoCAD 2011\Support\enu\Template\Bar_2011_Template.dwt Plot at 1: 10/05/2010 14:03:50

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PRINTED NAME	_____			
SIGNATURE	_____			
DATE	_____			
LICENSE #	_____			

CLIENT	06/30/2021	06/30/2022				
BID						
CONSTRUCTION						
RELEASED TO/FOR	A	B	C	0	1	2
DATE RELEASED						

BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435
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www.barr.com

Scale	AS SHOWN
Date	06/12/2020
Drawn	ADB2
Checked	BDP
Designed	BARR
Approved	-

MINNESOTA POLLUTION CONTROL AGENCY

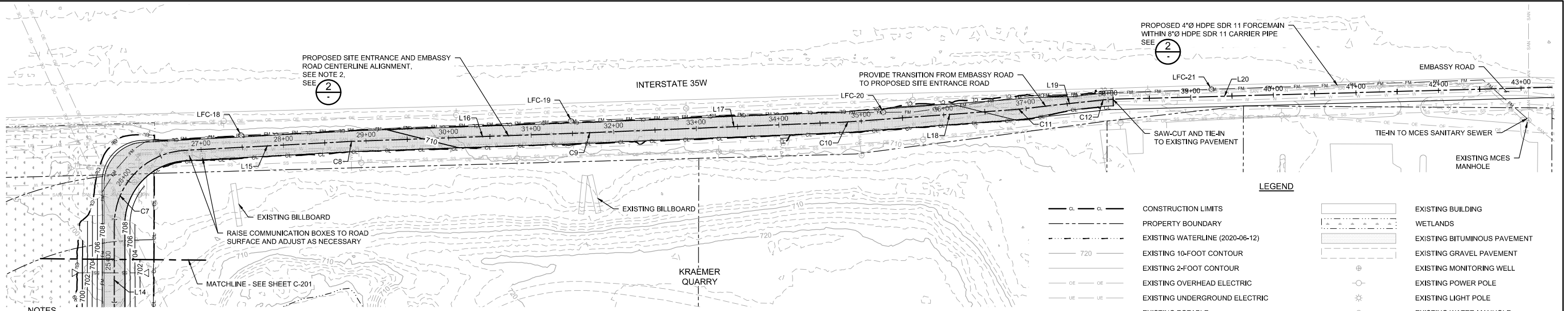
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE	
BURNSVILLE, MINNESOTA	
LANDFILL GAS EXTRACTION DETAILS	

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-184
REV. No.	B

GAS RECOVERY WELL NO.	NORTHING	EASTING	TOP OF COVER EL.	BOTTOM LINER EL.	TOTAL DEPTH (FT)	TOP OF SCREEN EL.	BOTTOM OF SCREEN EL.	BOTTOM OF BOREHOLE EL.	LENGTH OF SOLID PIPE (FT)	LENGTH OF SCREEN (FT)	DEPTH OF BOREHOLE (FT)	INVERT EL.
GRW-101	218,064.2645	505,935.3097	741.23	700.65	40.58	729.23	716.65	715.65	12.0	12.58	25.58	736.90
GRW-102	217,919.7591	505,842.2507	772.56	699.69	72.87	760.56	715.69	714.69	12.0	44.87	57.87	768.22
GRW-103	217,896.5027	506,047.0925	740.68	699.66	41.02	728.68	715.66	714.66	12.0	13.02	26.02	736.02
GRW-104	217,720.8876	505,892.9252	783.11	699.98	80.43	771.11	715.98	714.98	12.0	55.13	68.13	778.44
GRW-105	217,749.6230	506,116.8456	744.93	698.63	46.30	732.93	714.63	713.63	12.0	18.30	31.30	740.60
GRW-106	217,557.4383	505,806.9036	788.78	702.32	83.36	776.78	718.32	717.32	12.0	58.46	71.46	784.11
GRW-107	217,557.4280	506,044.6111	777.94	701.13	78.95	765.94	717.13	716.13	12.0	48.81	61.81	773.61
GRW-108	217,557.4383	506,239.3378	745.24	700.16	45.12	733.24	716.16	715.16	12.0	17.08	30.08	740.91
GRW-109	217,367.4383	505,752.6242	793.64	703.87	86.27	781.64	719.87	718.87	12.0	61.77	74.77	788.97
GRW-110	217,367.4383	505,952.6242	787.60	702.87	82.23	775.60	718.87	717.87	12.0	56.73	69.73	783.26
GRW-111	217,354.8204	506,135.1091	782.21	701.71	78.20	770.21	717.71	716.71	12.0	52.50	65.50	777.87
GRW-112	217,378.8700	506,368.3777	742.97	701.02	41.95	730.97	717.02	716.02	12.0	13.95	26.95	738.64
GRW-113	217,192.4383	505,652.6242	798.30	702.21	93.30	786.30	718.21	717.21	12.0	68.09	81.09	793.64
GRW-114	217,192.4383	505,852.6242	792.26	703.57	86.90	780.26	719.57	718.57	12.0	60.69	73.69	787.60
GRW-115	217,192.4383	506,071.0016	785.67	702.48	82.49	773.67	718.48	717.48	12.0	55.19	68.19	781.00
GRW-116	217,192.4383	506,291.6761	771.66	701.38	70.28	759.66	717.38	716.38	12.0	42.28	55.28	766.99
GRW-117	217,168.0638	506,450.4785	739.89	699.26	40.63	727.89	715.26	714.26	12.0	12.63	25.63	735.23
GRW-118	217,007.4383	505,952.6242	790.87	703.76	85.16	778.87	719.76	718.76	12.0	59.11	72.11	786.54
GRW-119	217,013.5054	506,180.2813	783.88	702.75	79.34	771.88	718.75	717.75	12.0	53.13	66.13	779.55
GRW-120	217,007.4383	506,417.0713	746.58	700.87	48.80	734.58	716.87	715.87	12.0	17.71	30.71	742.24
GRW-121	216,832.4383	506,291.6761	771.66	702.48	69.18	759.66	718.48	717.48	12.0	41.18	54.18	767.32
GRW-122	216,832.4383	506,438.8075	742.23	701.75	40.47	730.23	717.75	716.75	12.0	12.48	25.48	737.90
GRW-123	216,657.4383	506,322.6242	765.47	701.83	63.64	753.47	717.83	716.83	12.0	35.64	48.64	761.13
GRW-124	216,657.4383	506,445.1063	740.97	700.05	40.93	728.97	716.05	715.05	12.0	12.92	25.92	736.64
GRW-125	216,462.4383	506,452.6242	739.47	699.44	40.03	727.47	715.44	714.44	12.0	12.03	25.03	735.13
GRW-126	216,341.3408	506,447.0408	740.58	700.07	40.51	728.58	716.07	715.07	12.0	12.51	25.51	736.25
GRW-127	216,832.4383	506,071.0016	788.38	703.59	81.78	776.38	719.59	718.59	12.0	56.79	69.79	783.88
GRW-128	216,657.4383	506,152.6242	784.41	702.68	80.24	772.41	718.68	717.68	12.0	53.73	66.73	779.91
GRW-129	216,511.9951	506,225.8221	780.94	700.48	73.16	768.94	716.48	715.48	12.0	52.46	65.46	776.44
GRW-130	216,303.0691	506,352.9804	743.14	700.86	42.28	731.14	716.86	715.86	12.0	14.28	27.28	738.64
GRW-131	217,007.4383	505,752.6242	796.96	703.23	91.69	784.96	719.23	718.23	12.0	65.73	78.73	792.63
GRW-132	216,832.4383	505,852.6242	793.89	704.68	85.67	781.89	720.68	719.68	12.0	61.21	74.21	789.55
GRW-133	216,657.4383	505,952.6242	787.71	703.68	81.42	775.71	719.68	718.68	12.0	56.03	69.03	783.37
GRW-134	216,462.4383	506,052.6242	775.01	702.85	72.16	763.01	718.85	717.85	12.0	44.16	57.16	770.68
GRW-135	216,303.0691	506,152.9804	743.14	701.86	41.28	731.14	717.86	716.86	12.0	13.28	26.28	738.81
GRW-136	217,007.4383	505,552.6242	798.26	701.02	94.58	786.26	717.02	716.02	12.0	69.24	82.24	793.60
GRW-137	216,832.4383	505,652.6242	795.58	703.23	87.12	783.58	719.23	718.23	12.0	64.35	77.35	790.92
GRW-138	216,657.4383	505,752.6242	789.40	704.68	80.42	777.40	720.68	719.68	12.0	56.72	69.72	784.74
GRW-139	216,462.4383	505,852.6242	775.01	703.85	71.16	763.01	719.85	718.85	12.0	43.16	56.16	770.35
GRW-140	216,329.7136	505,952.9458	748.47	700.53	40.28	736.47	716.53	715.53	12.0	19.94	32.94	743.80
GRW-141	216,832.4383	505,452.6242	794.11	702.23	88.12	782.11	718.23	717.23	12.0	63.88	76.88	789.61
GRW-142	216,657.4383	505,552.6242	789.63	702.26	82.84	777.63	718.26	717.26	12.0	59.37	72.37	785.30
GRW-143	216,462.4383	505,599.8838	775.01	703.53	71.22	763.01	719.53	718.53	12.0	43.48	56.48	770.68

1 TABLE: GAS RECOVERY WELL INFORMATION
C-180

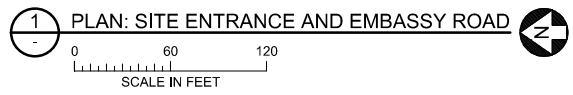
GAS RECOVERY WELL NO.	NORTHING	EASTING	TOP OF COVER EL.	BOTTOM LINER EL.	TOTAL DEPTH (FT)	TOP OF SCREEN EL.	BOTTOM OF SCREEN EL.	BOTTOM OF BOREHOLE EL.	LENGTH OF SOLID PIPE (FT)	LENGTH OF SCREEN (FT)	DEPTH OF BOREHOLE (FT)	INVERT EL.
GRW-144	216,309.0006	505,751.7928	744.33	703.75	40.58	732.33	719.75	718.75	12.0	12.58	25.58	739.99
GRW-145	216,657.4383	505,352.6242	787.93	701.30	83.80	775.93	717.30	716.30	12.0	58.63	71.63	783.43
GRW-146	216,462.4383	505,452.6242	775.01	702.79	72.22	763.01	718.79	717.79	12.0	44.22	57.22	770.68
GRW-147	216,303.0691	505,552.9804	743.14	702.90	40.24	731.14	718.90	717.90	12.0	12.24	25.24	738.81
GRW-148	216,657.4383	505,152.6242	786.03	700.36	84.04	774.03	716.36	715.36	12.0	57.67	70.67	781.70
GRW-149	216,462.4383	505,252.6242	775.01	701.79	73.22	763.01	717.79	716.79	12.0	45.22	58.22	770.51
GRW-150	216,303.0691	505,352.9804	743.14	701.90	41.24	731.14	717.90	716.90	12.0	13.24	26.24	738.81
GRW-151	216,572.3131	505,086.4202	783.08	699.50	80.83	771.08	715.50	714.50	12.0	55.58	68.58	778.75
GRW-152	216,303.0691	505,152.6242	743.14	700.90	42.24	731.14	716.90	715.90	12.0	14.24	27.24	738.64
GRW-153	216,303.0691	504,966.6928	743.14	699.97	43.24	731.14	715.97	714.97	12.0	15.17	28.17	738.81
GRW-154	216,462.4383	504,811.6242	742.32	698.41	43.91	730.32	714.41	713.41	12.0	15.91	28.91	737.65
GRW-155	216,657.4383	504,952.6242	769.37	699.42	69.95	757.37	715.42	714.42	12.0	41.95	54.95	764.70
GRW-156	216,657.4383	504,796.3098	738.12	696.07	41.35	726.12	712.07	711.07	12.0	14.05	27.05	733.79
GRW-157	216,832.4383	505,252.6242	790.43	701.23	86.02	778.43	717.23	716.23	12.0	61.20	74.20	785.76
GRW-158	216,831.5239	505,043.6511	784.01	700.21	80.51	772.01	716.21	715.21	12.0	55.80	68.80	779.68
GRW-159	216,832.4383	504,811.6242	740.16	699.02	41.14	728.16	715.02	714.02	12.0	13.14	26.14	735.83
GRW-160	217,007.4383	505,352.6242	792.22	700.02	90.07	780.22	716.02	715.02	12.0	64.20	77.20	787.55
GRW-161	217,007.4383	505,152.6242	786.18	699.02	85.08	774.18	715.02	714.02	12.0	59.16	72.16	781.85
GRW-162	217,007.4383	504,952.6242	767.33	698.02	69.31	755.33	714.02	713.02	12.0	41.31	54.31	763.00
GRW-163	217,007.4383	504,800.0470	736.83	695.35	41.37	724.83	711.35	710.35	12.0	13.48	26.48	732.50
GRW-164	217,203.1130	505,448.8351	793.29	701.69	89.78	781.29	717.69	716.69	12.0	63.60	76.60	788.62
GRW-165	217,202.1169	505,242.6327	787.07	700.62	85.68	775.07	716.62	715.62	12.0	58.45	71.45	782.41
GRW-166	217,192.7645	505,039.2189	781.02	699.16	81.21	769.02	715.16	714.16	12.0	53.86	66.86	776.35
GRW-167	217,192.4383	504,811.6242	738.07	696.93	41.43	726.07	712.93	711.93	12.0	13.14	26.14	733.40
GRW-168	217,392.3661	505,335.6530	788.08	701.65	83.88	776.08	717.65	716.65	12.0	58.43	71.43	783.58
GRW-169	217,386.6489	505,140.7358	782.25	700.56	79.86	770.25	716.56	715.56	12.0	53.69	66.69	777.75
GRW-170	217,355.5263	504,986.5698	762.32	699.16	63.16	750.32	715.16	714.16	12.0	35.16	48.16	757.82
GRW-171	217,368.8665	504,871.0330	741.48	698.85	42.63	729.48	714.85	713.85	12.0	14.63	27.63	736.98
GRW-172	217,578.3104	504,989.9028	738.63	697.87	40.76	726.63	713.87	712.87	12.0	12.76	25.76	734.30
GRW-173	217,574.2532	505,195.3210	773.54	699.95	73.59	761.54	715.95	714.95	12.0	45.59	58.59	769.21
GRW-174	217,740.1348	505,102.1535	739.86	696.86	43.00	727.86	712.86	711.86	12.0	15.00	28.00	735.52
GRW-175	217,571.9735	505,410.9604	788.52	700.98	83.14	776.52	716.98	715.98	12.0	59.54	72.54	783.85
GRW-176	217,753.9494	505,327.5850	767.72	698.33	69.39	755.72	714.33	713.33	12.0	41.39	54.39	763.05
GRW-177	217,852.5361	505,211.1658	738.69	695.15	42.77	726.69	711.15	710.15	12.0	15.54	28.54	734.02
GRW-1												



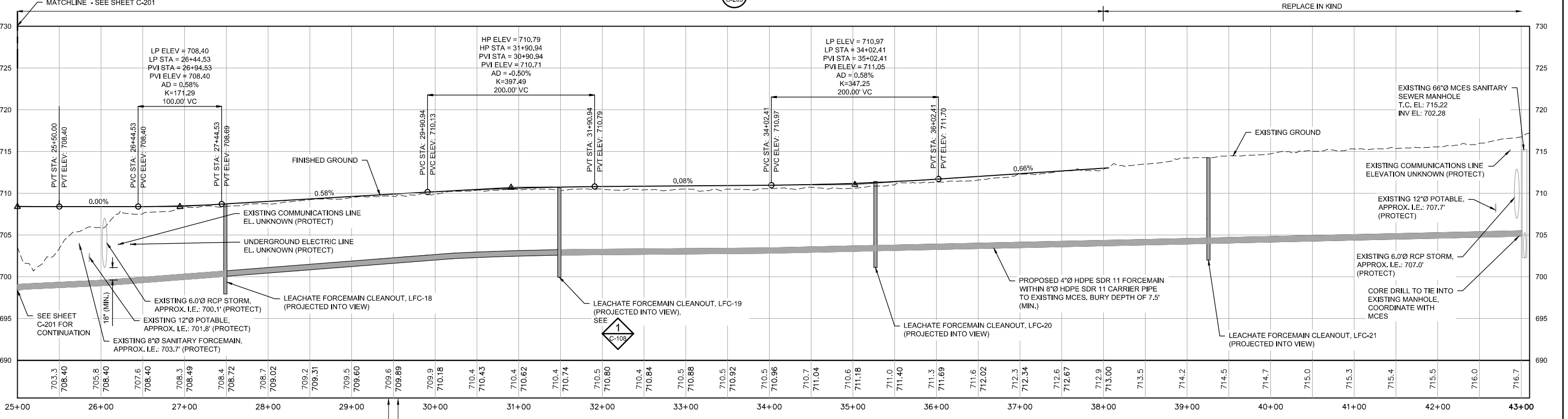
LEGEND

	CONSTRUCTION LIMITS		EXISTING BUILDING
	PROPERTY BOUNDARY		WETLANDS
	EXISTING WATERLINE (2020-06-12)		EXISTING BITUMINOUS PAVEMENT
	EXISTING 10-FOOT CONTOUR		EXISTING GRAVEL PAVEMENT
	EXISTING 2-FOOT CONTOUR		EXISTING MONITORING WELL
	EXISTING OVERHEAD ELECTRIC		EXISTING POWER POLE
	EXISTING UNDERGROUND ELECTRIC		EXISTING LIGHT POLE
	EXISTING POTABLE		EXISTING WATER MANHOLE
	EXISTING STORM		EXISTING GATE VALVE
	EXISTING CULVERT		EXISTING STORM SEWER MANHOLE
	EXISTING SANITARY		EXISTING SANITARY SEWER MANHOLE
	EXISTING CHAIN LINK FENCE		LEACHATE FORCEMAIN
	EXISTING TREE LINE		PROPOSED 10-FT CONTOUR
	APPROXIMATE LIMITS OF WASTE REMOVAL		PROPOSED 2-FT CONTOUR
	APPROXIMATE LIMITS OF WASTE TO REMAIN		PROPOSED BITUMINOUS PAVEMENT
			PROPOSED CULVERT
			PROPOSED GATE

- NOTES**
- EXISTING CONTOURS SHOWN REPRESENT EXISTING GROUND AFTER WASTE EXCAVATION HAS BEEN COMPLETED.
 - SEE SHEET C-207 FOR SITE ENTRANCE AND EMBASSY ROAD ALIGNMENT LINE AND CURVE TABLES.
 - PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
 - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
 - PAVE PROPOSED SITE ENTRANCE PRIOR TO HAULING MATERIALS OR PROVIDING TRANSFER STATION TEMPORARY ACCESS ROAD, REPAVE PROPOSED SITE ENTRANCE UPON COMPLETION OF PROJECT.
 - MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
 - INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108 AND SPECIFICATIONS 33 05 28 AND 33 90 01.
 - VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATION.
 - INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 THROUGH C-108.



SITE ACCESS - MONOSLOPE (WEST/SOUTH), SEE 1 C-203



2 PROFILE: SITE ENTRANCE AND EMBASSY ROAD

HORIZONTAL SCALE IN FEET

VERTICAL SCALE IN FEET

CADD USER: Zach J. Nelson FILE: M:\DESIGN\23181372\05\2318137205_LINE_C-200.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 10:50 AM
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: _____
 SIGNATURE: _____
 DATE: _____ LICENSE # _____

CLIENT	06/30/2021	06/30/2021								
BID										
CONSTRUCTION										
RELEASED TO/FOR	A	B	C	0	1	2	3			
DATE RELEASED										

BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 SUITE 200
 MINNEAPOLIS, MN 55435

Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 SUITE 200
 MINNEAPOLIS, MN 55435

Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Ph: (952) 832-2601
 Ph: 1-800-632-2277
 www.barr.com

Scale	AS SHOWN
Date	01/21/2020
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	

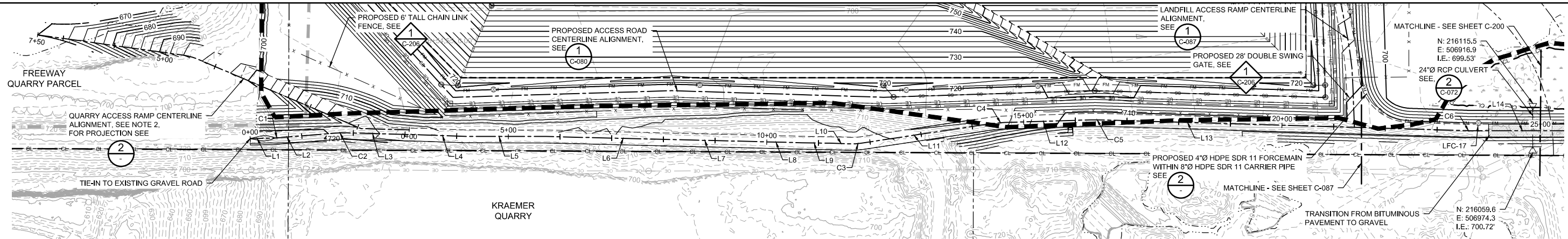
MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA

SITE ENTRANCE
 PLAN AND PROFILE

100% DRAFT
 NOT FOR CONSTRUCTION
 06/30/2022

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-200
REV. No.	B



1 PLAN: QUARRY ACCESS ROAD AND SITE ENTRANCE

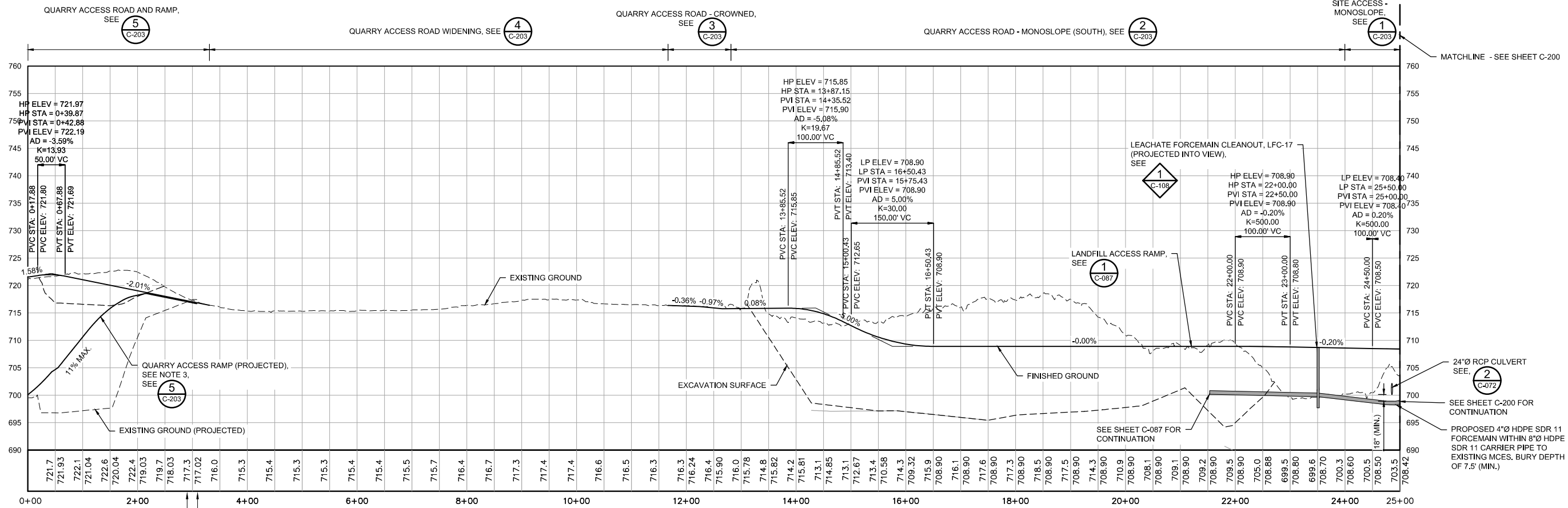
0 100 200
HORIZONTAL SCALE IN FEET

NOTES

- EXISTING CONTOURS SHOWN REPRESENT EXISTING GROUND AFTER EXCAVATION HAS BEEN COMPLETED.
- SEE SHEET C-207 FOR QUARRY ACCESS ROAD AND SITE ENTRANCE AND QUARRY ACCESS RAMP ALIGNMENT LINE AND CURVE TABLES.
- QUARRY ACCESS RAMP PROFILE SHOWN IS PROJECTED AND FOR REFERENCE ONLY. QUARRY ACCESS RAMP SHALL EXTEND TO QUARRY FLOOR (APPROX. EL. 670). FIELD FIT QUARRY ACCESS RAMP SUCH AS TO MINIMIZE COMMON FILL. CONTRACTOR SHALL NOT EXCAVATE BEDROCK TO CONSTRUCT QUARRY ACCESS RAMP. VERTICAL CURVE LENGTH SHALL BE MIN. 100'. AND MIN. K VALUE OF 10 SHALL BE USED. CONTRACTOR TO SUBMIT QUARRY ACCESS RAMP PLAN TO ENGINEER PRIOR TO CONSTRUCTION OF QUARRY ACCESS RAMP.
- PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
- PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
- MIN. BURY DEPTH OF 7.5' FOR LEACHATE FORCEMAIN.
- INSTALL LEACHATE FORCEMAIN AND LEACHATE FORCEMAIN CLEANOUTS PER SHEETS C-100 TO C-108.

LEGEND

CL - CL	CONSTRUCTION LIMITS	- x - x -	EXISTING CHAIN LINK FENCE	⊗	EXISTING GATE VALVE
- - - - -	EXISTING WATERLINE (2020-06-12)	~~~~~	EXISTING TREE LINE	⊙	EXISTING STORM SEWER MANHOLE
720	EXISTING 10-FOOT CONTOUR	- - - - -	APPROXIMATE LIMITS OF WASTE REMOVAL	⊙	EXISTING SANITARY SEWER MANHOLE
OE - OE	EXISTING 2-FOOT CONTOUR		WETLANDS	— 720 —	PROPOSED 10-FT CONTOUR
— UE — UE	EXISTING OVERHEAD ELECTRIC		EXISTING BITUMINOUS PAVEMENT		PROPOSED 2-FT CONTOUR
— UE — UE	EXISTING UNDERGROUND ELECTRIC		EXISTING GRAVEL PAVEMENT		PROPOSED BITUMINOUS PAVEMENT
— W — W	EXISTING POTABLE	⊕	EXISTING MONITORING WELL	- x - x -	PROPOSED CHAIN LINK FENCE
— SS — SS	EXISTING STORM	⊕	EXISTING POWER POLE	- - - - -	PROPOSED GEOMEMBRANE EXTENTS
— SS — SS	EXISTING CULVERT	⊕	EXISTING LIGHT POLE	— — — — —	PROPOSED CULVERT
— SAN — SAN	EXISTING SANITARY	⊕	EXISTING WATER MANHOLE	⊕	PROPOSED GATE



2 PROFILE: QUARRY ACCESS ROAD AND SITE ENTRANCE

0 100 200 0 10 20
HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET

CADD USER: Zach J. Nelson FILE: M:\DESIGN\23191372_0502319137205_LINE_C-201.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 10:45 AM
 BARR\AutoCAD 2011\AutoCAD 2011 Support\enu\TemplateBar_2011_Template.dwt Plot at 1: 10/05/2010 14:03:50

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID CONSTRUCTION	06/30/2021 06/30/2022						
PRINTED NAME	SIGNATURE	RELEASED TO/FOR	A	B	C	0	1	2	3
DATE	DATE	DATE RELEASED							

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

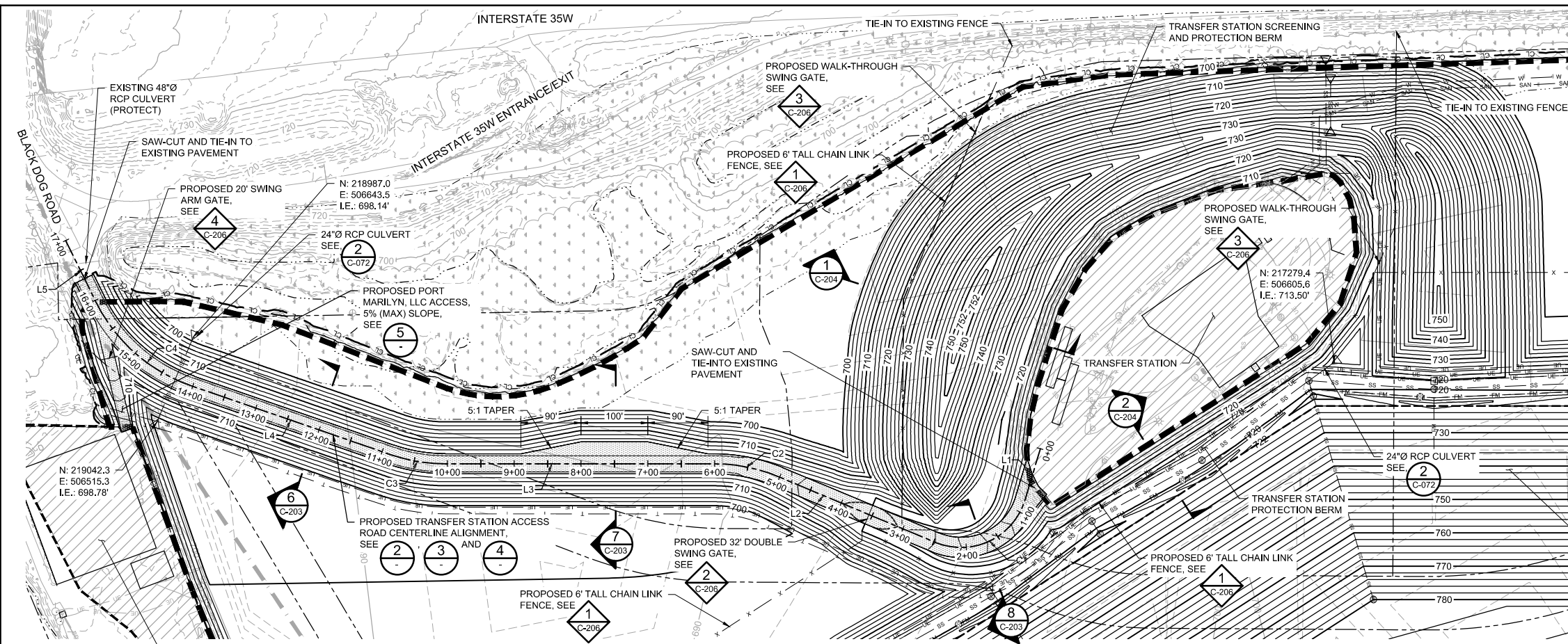
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	01/21/2020
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	-



FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE		BARR PROJECT No. 23/19-1372.00	
BURNSVILLE, MINNESOTA		CLIENT PROJECT No.	
QUARRY ACCESS ROAD PLAN AND PROFILE		DWG. No. C-201	REV. No. B

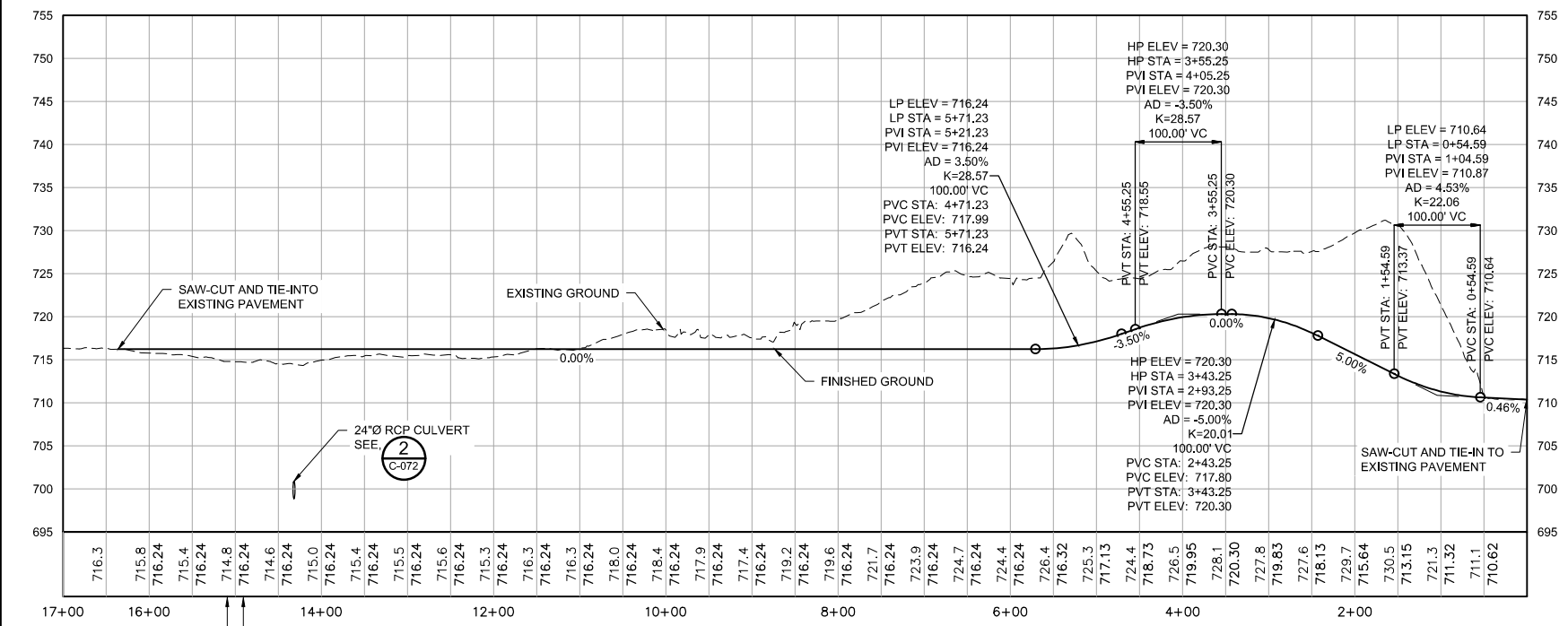
100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022



1 PLAN: TRANSFER STATION ACCESS ROAD AND SCREENING BERM

LEGEND

- CL CL CONSTRUCTION LIMITS
- PROPERTY BOUNDARY
- - - EXISTING FLOODWAY BOUNDARY
- - - EXISTING WATERLINE (2020-06-12)
- 740 EXISTING 10-FOOT CONTOUR
- EXISTING 2-FOOT CONTOUR
- OE OE EXISTING OVERHEAD ELECTRIC
- UE UE EXISTING UNDERGROUND ELECTRIC
- W W EXISTING POTABLE
- SS SS EXISTING STORM
- SS SS EXISTING CULVERT
- SAN SAN EXISTING SANITARY
- x x EXISTING CHAIN LINK FENCE
- EXISTING TREE LINE
- APPROXIMATE LIMITS OF WASTE REMOVAL
- APPROXIMATE LIMITS OF WASTE TO REMAIN
- EXISTING BUILDING
- WETLANDS
- EXISTING BITUMINOUS PAVEMENT
- EXISTING GRAVEL PAVEMENT
- EXISTING MONITORING WELL
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING WATER MANHOLE
- EXISTING GATE VALVE
- EXISTING FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- 710 PROPOSED TEN-FOOT CONTOUR
- 712 PROPOSED TWO-FOOT CONTOUR
- EXISTING BITUMINOUS PAVEMENT
- EXISTING GRAVEL SURFACING
- EXISTING CHAIN LINK FENCE
- EXISTING GEOMEMBRANE EXTENTS
- EXISTING CULVERT
- EXISTING GATE



2 PROFILE: TRANSFER STATION ACCESS ROAD

TRANSFER STATION ACCESS ROADWAY LINE DATA

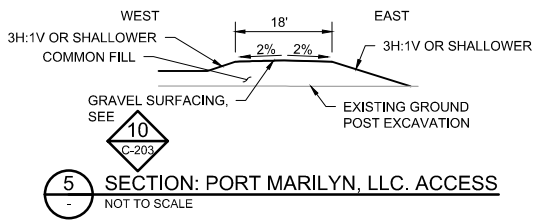
LINE #	LENGTH	START	END	START STATION	END STATION
L1	80.05'	N 217719.5500 E 506475.8784	N 217742.5494 E 506399.2037	0+00.00	0+80.05
L2	254.06'	N 217876.9702 E 506335.7006	N 218111.2979 E 506433.8611	2+47.66	5+01.71
L3	402.49'	N 218207.8908 E 506453.2753	N 218610.3825 E 506453.2753	6+00.89	10+03.38
L4	315.98'	N 218691.9893 E 506466.9697	N 218990.6607 E 506570.1141	10+86.51	14+02.49
L5	101.78'	N 219133.4385 E 506696.1855	N 219178.3181 E 506787.5390	15+97.90	16+99.68

3 TABLE: TRANSFER STATION ACCESS ROAD ALIGNMENT LINE DATA

TRANSFER STATION ACCESS ROADWAY CURVE TABLE

CURVE #	RADIUS	LENGTH	START	END	PI
C1	100.00'	'167.61'	N 217742.5494 E 506399.2037	N 217876.9702 E 506335.7006	N 217774.4764 E 506292.7658
C2	250.00'	'99.17'	N 218111.2979 E 506433.8611	N 218207.8908 E 506453.2753	N 218157.6433 E 506453.2753
C3	250.00'	'83.13'	N 218610.3825 E 506453.2753	N 218691.9893 E 506466.9697	N 218652.3349 E 506453.2753
C4	250.00'	'195.41'	N 218990.6607 E 506570.1141	N 219133.4385 E 506696.1855	N 219088.0209 E 506603.7369

4 TABLE: TRANSFER STATION ACCESS ROAD ALIGNMENT CURVE DATA



5 SECTION: PORT MARILYN, LLC. ACCESS

- NOTES**
- EXISTING CONTOURS SHOWN REPRESENT EXISTING GROUND AFTER WASTE EXCAVATION HAS BEEN COMPLETED.
 - PROFILE VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR CLARITY.
 - TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
 - MAINTAIN UTILITY SERVICE TO TRANSFER STATION DURING AND AFTER CONSTRUCTION ACTIVITIES. REPLACE SERVICE (POTABLE, SANITARY, AND POWER) AS NECESSARY, SEE SHEET C-071 FOR ADDITIONAL INFORMATION.
 - PROVIDE FENCES AND GATES PER SPECIFICATION 32 31 00.
 - PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.
 - COORDINATE TIMING WITH PORT MARILYN, LLC FOR CONSTRUCTION ACTIVITIES THAT WOULD LIMIT THEIR ACCESS.

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CADD USER: Andrea W. Tolkmier FILE: M:\DESIGN\2019\137205_LIN_C-202.DWG PLOT SCALE: 1:2 PLOT DATE: 6/30/2022 4:14 PM
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: _____
SIGNATURE: _____
DATE: _____ LICENSE #: _____

CLIENT	BID	CONSTRUCTION
BARR ENGINEERING CO.		

RELEASED TO/FOR	A	B	C	0	1	2	3

BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	01/21/2020
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	

MINNESOTA POLLUTION CONTROL AGENCY

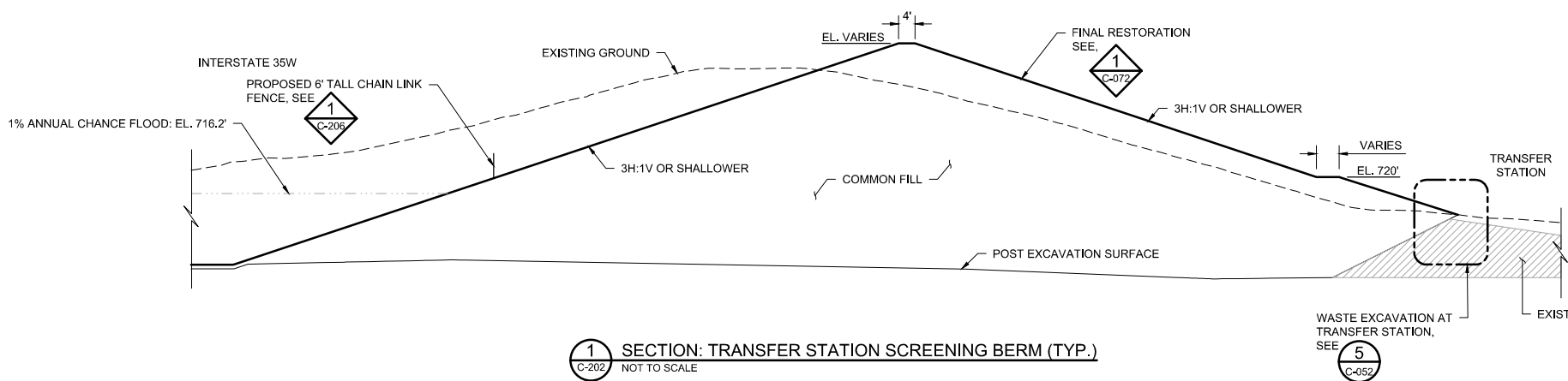
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

TRANSFER STATION ACCESS ROAD
PLAN AND PROFILE

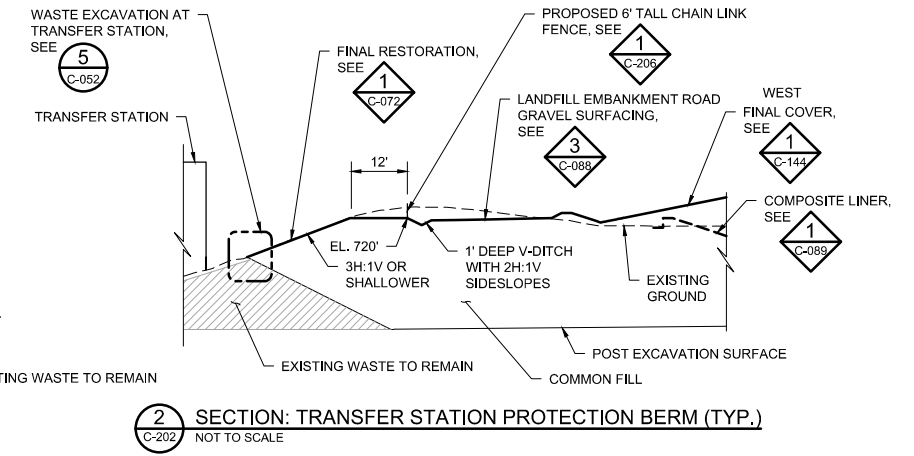
BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	C-202
REV. No.	B

LEGEND

- EXISTING GROUND
- 1% ANNUAL CHANCE FLOOD: EL. 716.2'
- PROPOSED EXCAVATION SURFACE
- PROPOSED RESTORATION SURFACE
- ▨ EXISTING WASTE TO REMAIN



1 SECTION: TRANSFER STATION SCREENING BERM (TYP.)
C-202 NOT TO SCALE



2 SECTION: TRANSFER STATION PROTECTION BERM (TYP.)
C-202 NOT TO SCALE

NOTES

1. THE EXACT LIMITS OF EXISTING WASTE AND DEPTHS OF WASTE AND BEDROCK ARE NOT KNOWN AND HAVE BEEN ESTIMATED BASED ON INFORMATION FROM INVESTIGATIONS SHOWN ON SHEET C-002. HORIZONTAL AND VERTICAL EXTENTS TO BE DETERMINED IN THE FIELD.
2. TRANSFER STATION TO REMAIN OPEN DURING CONSTRUCTION ACTIVITIES. EXCAVATION AND EARTHWORK ACTIVITIES TO STOP AT APPROXIMATE LIMITS OF WASTE REMOVAL BOUNDARY SHOWN, UNLESS OTHERWISE DIRECTED BY OWNER. SEE SHEET C-205 FOR TRANSFER STATION TEMPORARY ACCESS ROAD.
3. STRIP EXISTING COVER SOIL FOR REUSE. SEE SPECIFICATIONS 31 01 00 AND 31 23 00.
4. EXCAVATE AND DISPOSE OF WASTE. SEE SPECIFICATION 31 23 16.
5. PLACE COMMON FILL AND TOPSOIL PER DETAIL 1 ON SHEET C-072 AND SPECIFICATION 31 23 00 AND 31 23 23.
6. SEED, MULCH, AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES PER SPECIFICATION 32 92 00.
7. PROTECT ALL WETLANDS FROM DISTURBANCE AND SEDIMENT TO THE EXTENT PRACTICABLE. FOR WETLAND INVENTORY AND WETLAND IMPACTS, SEE SHEET C-021.

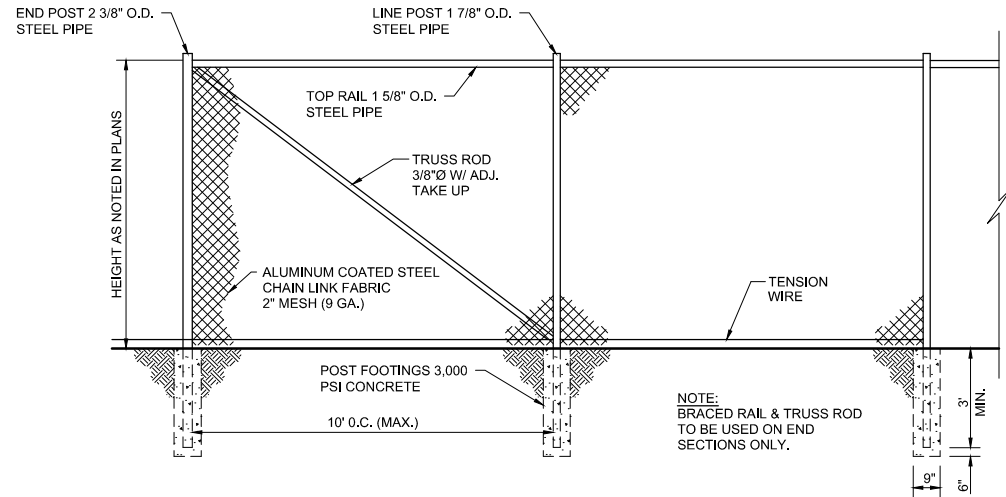
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06/30/2022

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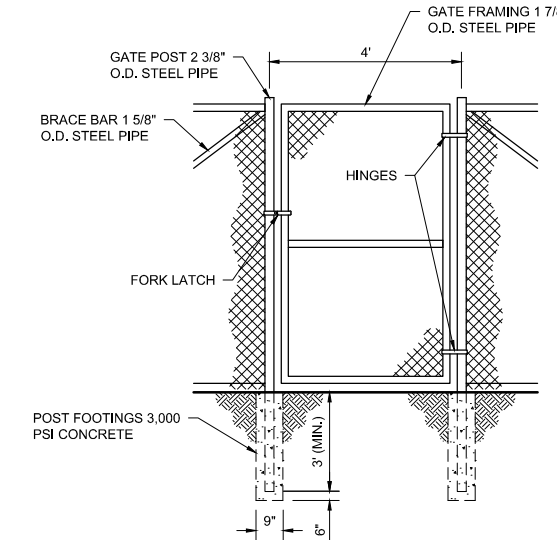
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME _____ SIGNATURE _____ DATE _____ LICENSE # _____				CLIENT BID CONSTRUCTION				06/30/2021 06/30/2022				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 Ph: 1-800-632-2277 www.barr.com				Scale AS SHOWN Date 02/11/2020 Drawn AWT Checked BDP Designed BARR Approved -		FREeway LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA				BARR PROJECT No. 23/19-1372.00	
				NO. BY CHK. APP. DATE REVISION DESCRIPTION				RELEASED TO/FOR A B C 0 1 2 3								DATE RELEASED				TRANSFER STATION SCREENING AND PROTECTION SECTIONS AND DETAILS			



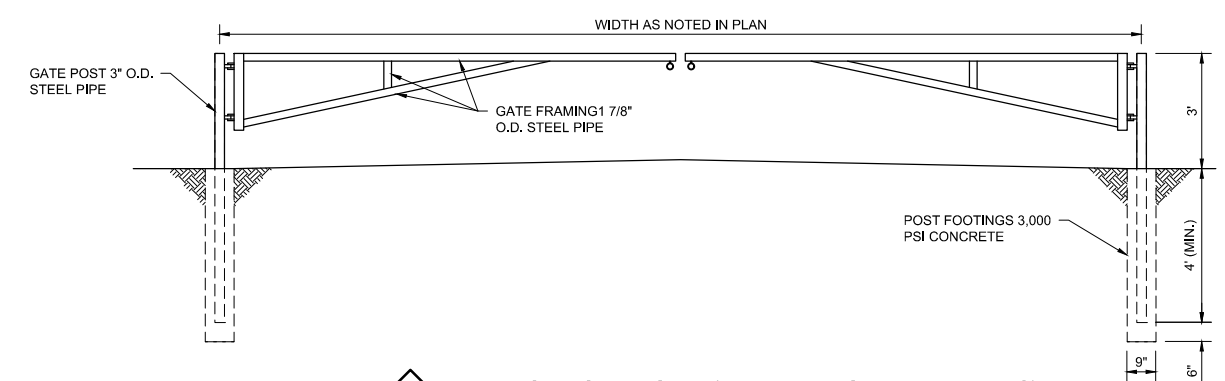
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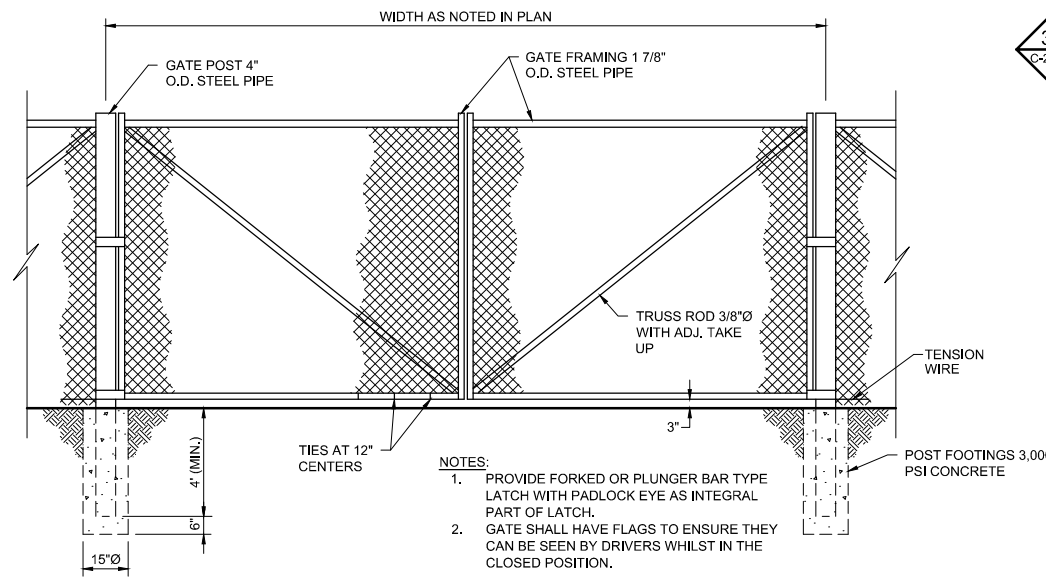
1 DETAIL: CHAIN LINK FENCE
C-061,C-081, C-082, C-083, C-084, C-085, C-087,C-161,C-201,C-202 NOT TO SCALE



3 DETAIL: WALK-THROUGH SWING GATE (TRANSFER STATION)
C-202 NOT TO SCALE

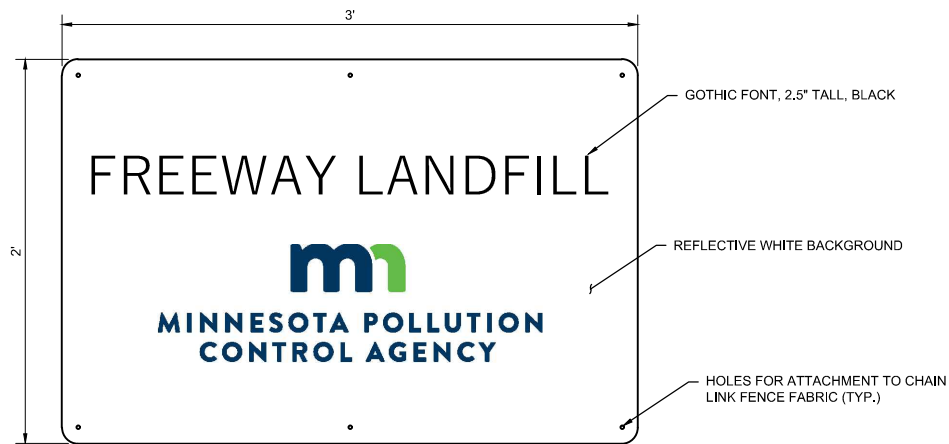


4 DETAIL: SWING ARM GATE (DUMP AND PORT MARILYN, LLC)
C-066,C-202 NOT TO SCALE



2 DETAIL: DOUBLE SWING GATE (TRANSFER STATION ACCESS ROAD AND LANDFILL)
C-087,C-202 NOT TO SCALE

NOTES:
1. INSTALL FENCES AND GATES PER SPECIFICATION 32 31 00.



5 DETAIL: LANDFILL ENTRANCE SIGN
C-087 NOT TO SCALE

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PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE # _____		RELEASED TO/FOR: _____	DATE RELEASED: _____	BARR Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	MINNESOTA POLLUTION CONTROL AGENCY	FENCING SECTIONS AND DETAILS	DWG. No. C-206	REV. No. B

SITE ENTRANCE AND QUARRY ACCESS ROADWAY LINE DATA					
LINE #	LENGTH	START	END	START STATION	END STATION
L1	43.42'	N 216079.8045 E 504497.6754	N 216080.7986 E 504541.0831	0+00.00	0+43.42
L2	110.53'	N 216081.4019 E 504552.6858	N 216090.3448 E 504662.8558	0+55.04	1+65.57
L3	143.81'	N 216090.9303 E 504684.3367	N 216087.1198 E 504828.0957	1+87.07	3+30.88
L4	89.96'	N 216087.1198 E 504828.0957	N 216084.0664 E 504918.0038	3+30.88	4+20.84
L5	152.29'	N 216084.0664 E 504918.0038	N 216083.9094 E 505070.2898	4+20.84	5+73.13
L6	242.60'	N 216083.9094 E 505070.2898	N 216077.9267 E 505312.8191	5+73.13	8+15.73
L7	126.56'	N 216077.9267 E 505312.8191	N 216074.9164 E 505439.3450	8+15.73	9+42.29
L8	125.66'	N 216074.9164 E 505439.3450	N 216071.8005 E 505564.9622	9+42.29	10+67.95
L9	54.30'	N 216071.8005 E 505564.9622	N 216070.8673 E 505619.2533	10+67.95	11+22.25
L10	41.00'	N 216070.8673 E 505619.2533	N 216069.6421 E 505660.2336	11+22.25	11+63.24
L11	252.06'	N 216070.7130 E 505678.1166	N 216108.2570 E 505927.3660	11+81.18	14+33.24
L12	167.02'	N 216110.9246 E 505956.8219	N 216116.1228 E 506123.7574	14+62.84	16+29.85
L13	711.00'	N 216116.1364 E 506138.8714	N 216095.2813 E 506849.5634	16+44.97	23+55.97
L14	180.23'	N 216095.1737 E 506856.8964	N 216095.1737 E 507037.1259	23+63.30	25+43.53
L15	199.27'	N 21610.0319 E 507126.9947	N 215811.0502 E 507137.7513	26+80.04	28+79.32
L16	286.94'	N 215806.5975 E 507137.9523	N 215519.8491 E 507148.3304	28+83.77	31+70.71
L17	305.77'	N 215518.5044 E 507148.3827	N 215212.9944 E 507161.0868	31+72.06	34+77.83
L18	197.86'	N 215204.9308 E 507161.5527	N 215007.6125 E 507176.1550	34+85.91	36+83.76
L19	94.63'	N 214998.4280 E 507177.0053	N 214904.3787 E 507187.4656	36+92.99	37+87.62
L20	591.51'	N 214883.5617 E 507188.9047	N 214292.2725 E 507205.0365	38+08.49	44+00.00

1 TABLE: SITE ENTRANCE AND QUARRY ACCESS ALIGNMENT LINE DATA
C-200, C-201

SITE ENTRANCE AND QUARRY ACCESS ROADWAY CURVE DATA					
CURVE #	RADIUS	LENGTH	START	END	PI
C1	200.00'	'11.62'	N 216080.7986 E 504541.0831	N 216081.4019 E 504552.6858	N 216080.9316 E 504546.8932
C2	200.00'	'21.50'	N 216090.3448 E 504662.8558	N 216090.9303 E 504684.3367	N 216091.2154 E 504673.5805
C3	100.00'	'17.94'	N 216069.6421 E 505660.2336	N 216070.7130 E 505678.1166	N 216069.3734 E 505669.2232
C4	250.00'	'29.59'	N 216108.2570 E 505927.3660	N 216110.9246 E 505956.8219	N 216110.4635 E 505942.0149
C5	250.00'	'15.12'	N 216116.1228 E 506123.7574	N 216116.1364 E 506138.8714	N 216116.3581 E 506131.3142
C6	250.00'	'7.33'	N 216095.2813 E 506849.5634	N 216095.1737 E 506856.8964	N 216095.1737 E 506853.2291
C7	90.00'	'136.51'	N 216095.1737 E 507037.1259	N 216010.0319 E 507126.9947	N 216095.1737 E 507122.3921
C8	250.00'	'4.46'	N 215811.0502 E 507137.7513	N 215806.5975 E 507137.9523	N 215808.8247 E 507137.8717
C9	250.00'	'1.35'	N 215519.8491 E 507148.3304	N 215518.5044 E 507148.3827	N 215519.1766 E 507148.3547
C10	250.00'	'8.08'	N 215212.9944 E 507161.0868	N 215204.9308 E 507161.5527	N 215208.9588 E 507161.2546
C11	250.00'	'9.22'	N 215007.6125 E 507176.1550	N 214998.4280 E 507177.0053	N 215003.0124 E 507176.4954
C12	250.00'	'20.87'	N 214904.3787 E 507187.4656	N 214883.5617 E 507188.9047	N 214894.0003 E 507188.6199

2 TABLE: SITE ENTRANCE AND QUARRY ACCESS ALIGNMENT CURVE DATA
C-200, C-201

QUARRY ACCESS RAMP LINE DATA					
LINE #	LENGTH	START	END	START STATION	END STATION
L21	92.87'	N 216096.7263 E 504805.3348	N 216099.1871 E 504712.4946	0+00.00	0+92.87
L22	344.92'	N 216099.1871 E 504712.4946	N 216234.0512 E 504395.0321	0+92.87	4+37.79
L23	285.83'	N 216241.0515 E 504369.7598	N 216280.5751 E 504086.6758	4+64.09	7+49.92

3 TABLE: QUARRY ACCESS RAMP ALIGNMENT LINE DATA
C-201

QUARRY ACCESS RAMP CURVE DATA					
CURVE #	RADIUS	LENGTH	START	END	PI
C13	100.00'	'26.30'	N 216234.0512 E 504395.0321	N 216241.0515 E 504369.7598	N 216239.2226 E 504382.8589

4 TABLE: QUARRY ACCESS RAMP ALIGNMENT CURVE DATA
C-201

NOTES

- SEE SHEETS C-200 AND C-201 FOR ADDITIONAL INFORMATION.

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PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE # _____				RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:				Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		SITE ENTRANCE AND QUARRY ACCESS ALIGNMENT TABLES		DWG. No. C-207		REV. No. B	



1.0 GENERAL REQUIREMENTS

- A. GENERAL
 1. THESE NOTES ARE COMPLEMENTARY TO THE SPECIFICATIONS AND DRAWINGS AND REPRESENT MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 2. DO NOT SCALE DRAWINGS.
 3. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION.
- B. GOVERNING CODES
 1. PERFORM WORK IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
 - a. 2018 INTERNATIONAL BUILDING CODE AND REFERENCED STANDARDS W/ 2020 MINNESOTA BUILDING CODE AMENDMENTS.
- C. DESIGN LOADS
 1. DEAD LOAD:
 - a. MECHANICAL/PIPING = 10 PSF
 - b. ROOF DEAD LOAD = 5 PSF
 2. LIVE LOAD:
 - a. FLOOR LIVE LOAD (EQUIPMENT AREAS): LL = 100 PSF OR CONCENTRATED LOAD OF 1000 LBF
 - b. MINIMUM ROOF LIVE LOAD = 20 PSF
 3. SNOW LOAD:
 - a. ROUND SNOW (Ps) = 50 PSF
 - b. FLAT ROOF SNOW (Pf) = 46.2 PSF
 - c. EXPOSURE FACTOR (Ce) = 1.2
 - d. IMPORTANCE FACTOR (I) = 1.1
 - e. THERMAL FACTOR (Ct) = 1.0 (HEATED)
 4. WIND LOAD (IBC 2018):
 - a. ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) (VULT) = 120 MPH
 - b. NOMINAL DESIGN WIND SPEED (VSD) = 93 MPH
 - c. BALANCED ROOF SNOW LOAD: 46.2 PSF
 - d. RISK CATEGORY = III
 - e. EXPOSURE CATEGORY = C
 - f. INTERNAL PRESSURE COEFFICIENT (GCpi) = +/-0.18
 - g. COMPONENTS AND CLADDING DESIGN WIND PRESSURE = 26.6 PSF
 5. SEISMIC LOAD: NA PER MNBC 1305.0011 SUBP.4

2.0 CONCRETE

1. CONCRETE: MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH: 4,500 PSI.
2. REINFORCING BARS: ASTM A615, A706, OR A996 (TYPE R), A970, GRADE 60.
3. REINFORCING COVER: 3" FOR CONCRETE AGAINST EARTH AND 2" ELSEWHERE, UNLESS NOTED OTHERWISE

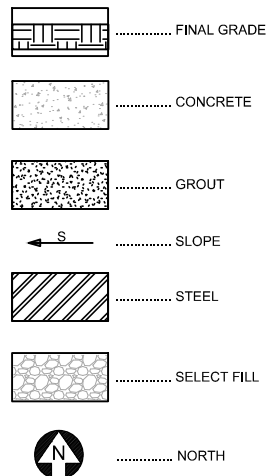
3.0 STRUCTURAL STEEL

1. C SHAPES: ASTM A336, FY = 36 KSI
2. PIPES: ASTM A53, GRADE B, SCHEDULE 40, FY = 35 KSI
3. STEEL PLATES AND BARS: ASTM A36, FY = 36 KSI
4. FASTENERS:
 - a. HIGH STRENGTH BOLTS: ASTM F1852 TWIST-OFF BOLTS OR ASTM A325, TYPE 1
 - b. NUTS: ASTM A563, HEAVY HEX, GRADE C
 - c. WASHERS: ASTM F436
 - d. COMPRESSIBLE WASHER TYPE DIRECT TENSION INDICATOR: ASTM F959
 - e. SHEAR STUD CONNECTORS: ASTM A108
5. FILLER MATERIAL FOR WELDED CONNECTIONS: MINIMUM TENSILE STRENGTH OF 70,000 PSI (E70XX ELECTRODES)

STRUCTURAL ABBREVIATIONS

- BC BOLT CIRCLE
- BO BOTTOM OF
- CLR CLEAR
- CMU CONCRETE MASONRY UNIT
- CONT CONTINUOUS
- DWGS DRAWINGS
- EL ELEVATION
- EF EACH FACE
- EW EACH WAY
- FFE FINISHED FLOOR ELEVATION
- FRP FIBERGLASS REINFORCED PLASTIC
- HP HIGH POINT
- LP LOW POINT
- MIN MINIMUM
- MAX MAXIMUM
- N/A NOT APPLICABLE
- NTC NOT TO SCALE
- OC ON CENTER
- PEMB PRE-ENGINEERED METAL BUILDING
- PL PLATE
- REINF REINFORCING
- RO ROUGH OPENING
- STD STANDARD
- TO TOP OF
- TOC TOP OF CONCRETE
- TYP TYPICAL

STRUCTURAL SYMBOL LEGEND



4.0 STATEMENT OF SPECIAL INSPECTION

- A. GENERAL
 1. SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH THE 2018 IBC CHAPTER 17. OWNER SHALL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR, WHO SHALL PROVIDE ALL SERVICES NECESSARY TO MEET THE IBC SPECIAL INSPECTION REQUIREMENTS.
 2. SPECIAL INSPECTIONS SHALL BE PROVIDED DURING ALL FABRICATION AND CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE FOLLOWING NOTES AND SCHEDULES.
- B. DEFINITIONS
 1. REFER TO SECTION 1702 AND CHAPTER 2 OF THE 2018 IBC FOR DEFINITIONS OF TERMS APPLICABLE TO SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS.

4.1 CONCRETE CONSTRUCTION

- A. REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION
 1. THE SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY IBC 2018 SECTION 1705.3 AND THE FOLLOWING TABLE.
- B. TABLE 1705.3 FROM IBC 2018

TYPE	CONTINUOUS	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE	PROJECT APPLICABILITY
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.6, 1-26.6.3	1908.4	X
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" AND c. INSPECT ALL OTHER WELDS.	-	X	AWS D1.4 ACI 318: 26.6.4	-	N/A
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-	X
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (b) a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	X	ACI 318: 17.8.2.4	-	X
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10	X
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8	X
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5	1908.9	X
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-	ACI 318: 26.10	-	N/A
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: 26.9	-	N/A
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	-	X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1,2(b)	-	X

(b) SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

4.2 SOILS AND FOUNDATIONS

- A. REQUIRED VERIFICATION AND INSPECTION OF SOILS
 1. SPECIAL INSPECTIONS FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEARING REQUIREMENTS SHALL BE AS REQUIRED BY IBC 2018 SECTION 1705.6 AND THE FOLLOWING TABLE.
- B. TABLE 1705.6 FROM IBC 2018

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		PROJECT APPLICABILITY
	CONTINUOUS	PERIODIC	
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	-	X	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	-	X	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X	-	X
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	-	X	X

4.3 STRUCTURAL STEEL

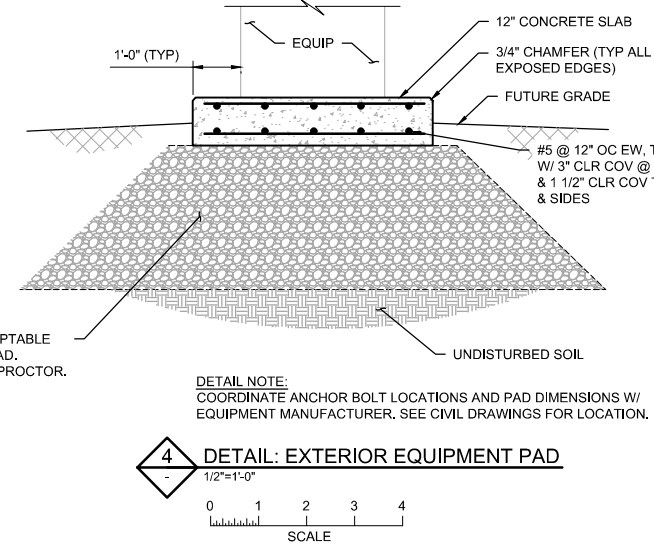
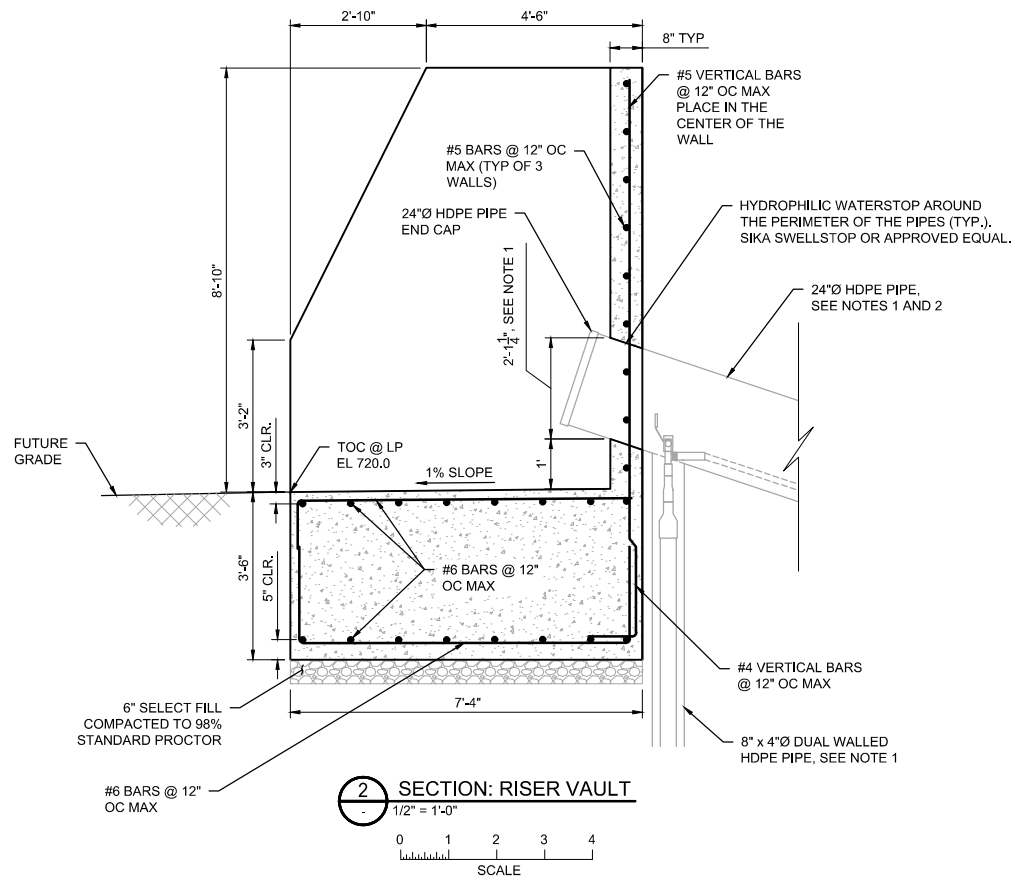
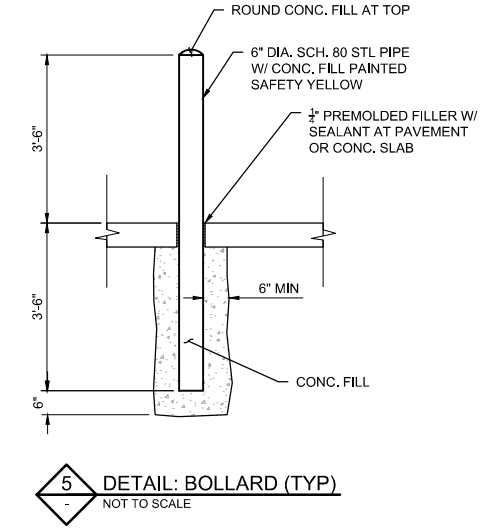
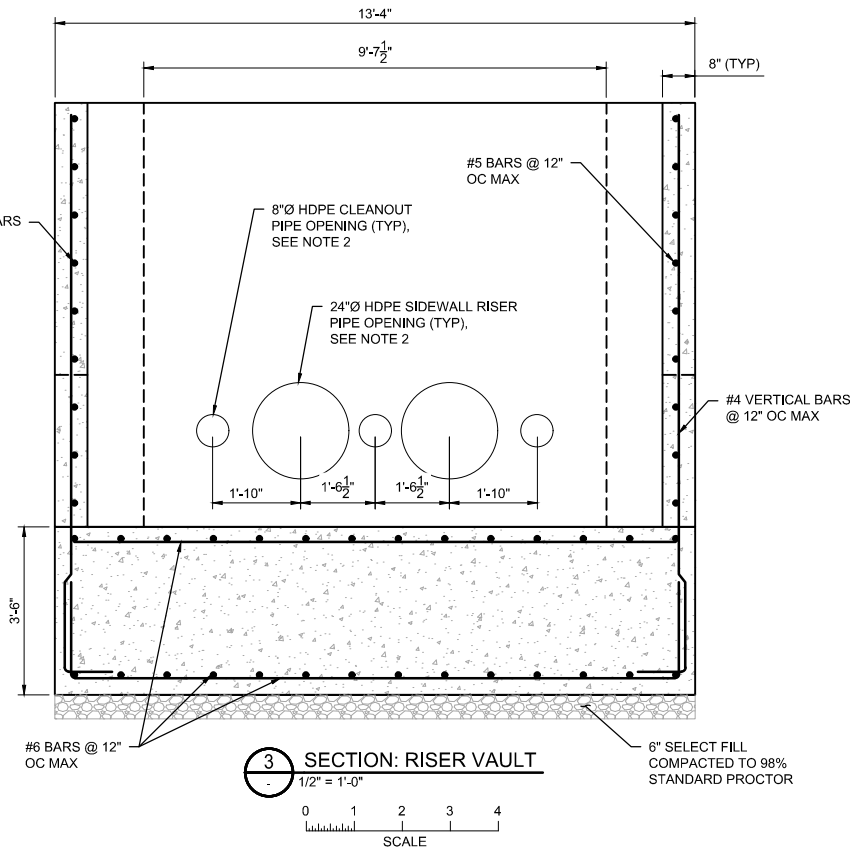
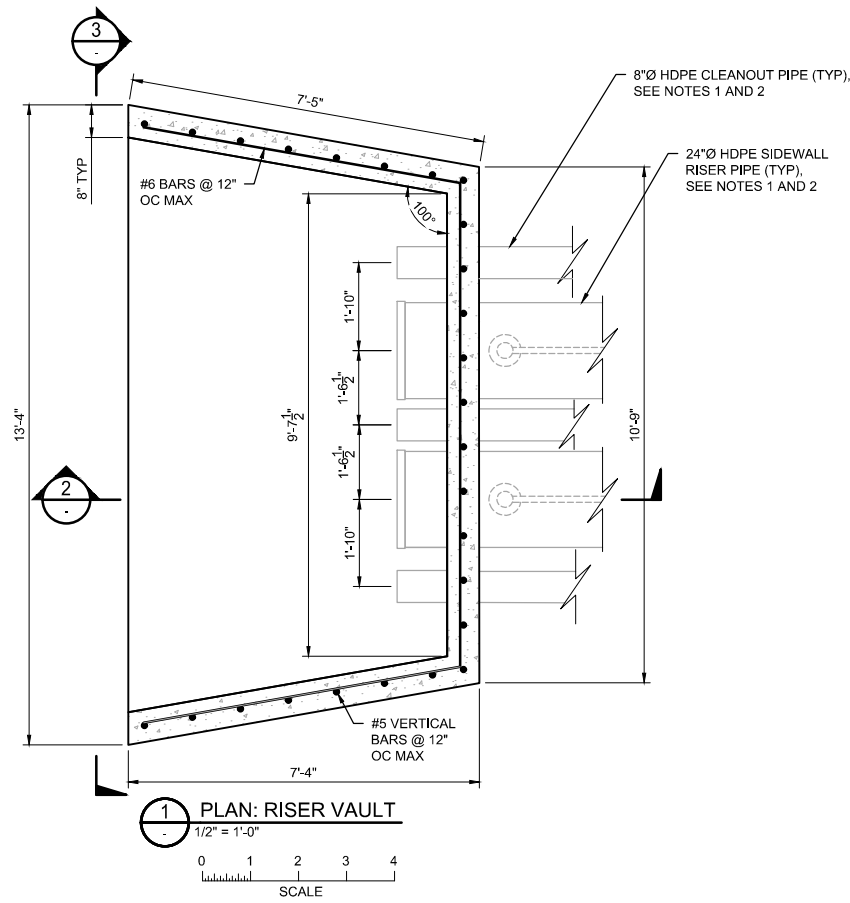
- A. GENERAL
 1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE AND QUALITY CONTROL INSPECTION REQUIREMENTS OF AISC 360-16 (IBC 2018, SECTION 1705.2.1).
 2. CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL PROCEDURES IN ACCORDANCE WITH THE REQUIREMENTS OF AISC 360-10 CHAPTER N.
 3. THE INSPECTION TABLES AND NOTES PROVIDED ON THIS SHEET ARE INTENDED ONLY TO ASSIST THE CONTRUCTION PERSONNEL IN IDENTIFYING QUALITY CONTROL AND QUALITY ASSURANCE REQUIREMENTS. THE REQUIREMENTS OF AISC 360-16 CHAPTER N ARE MINIMUM REQUIREMENTS, AND THE QUALITY CONTROL INSPECTOR(S) AND QUALITY ASSURANCE INSPECTOR(S) ARE RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF AISC 360-10 CHAPTER N, WHETHER INDICATED ON THIS SHEET OR NOT. IF ANY INSPECTIONS ARE REQUIRED IN ADDITION TO THE AISC 360-10 CHAPTER N INSPECTIONS, SUCH INSPECTIONS ARE INDICATED ON THIS SHEET. IF A DISCREPANCY EXISTS BETWEEN THE REQUIREMENTS OF AISC 360-10 CHAPTER N AND THE REQUIREMENTS OF THIS DRAWING, THE MORE STRINGENT REQUIREMENT SHALL APPLY, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- B. REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION
- C. TABLE 1704.3 FROM IBC 2018

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCED	PROJECT APPLICABILITY
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS					
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS AISC 360, SECTION A3.3	-	X
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	-	X	-	-	X
2. INSPECTION OF HIGH-STRENGTH BOLTING					
a. BEARING TYPE CONNECTIONS	-	X	AISC 360 SECTION M2.5	1704.3.3	X
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL					
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	ASTM A6 OR ASTM A568	1708.4	X
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	-	X	ASTM A6 OR ASTM A568	1708.4	X
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS					
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	-	-	AISC 360, SECTION A3.5	-	X
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	-	-	-	-	X
5. INSPECTION OF WELDING					
a. STRUCTURAL STEEL					
1) SINGLE-PASS FILLET WELDS <=5/16"	-	X	AWS D1.1	1704.3.1	X
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS					
a. DETAILS SUCH AS BRACING AND STIFFENING	-	N/A	-	1704.3.2	N/A
b. MEMBER LOCATION	-	N/A	-	1704.3.2	N/A
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	-	N/A	-	1704.3.2	N/A

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PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE # _____	RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:	Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	MINNESOTA POLLUTION CONTROL AGENCY	STRUCTURAL NOTES AND STATEMENT OF SPECIAL INSPECTIONS	DWG. No. S-001 REV. No. B	

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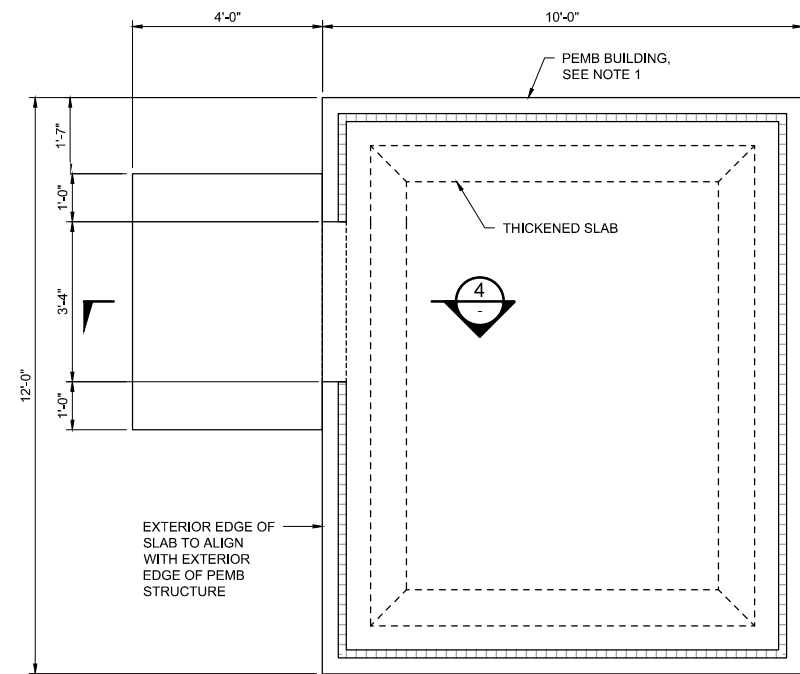


- NOTES:**
- SEE SHEET C-101 FOR ADDITIONAL INFORMATION ON PIPING, FITTINGS, AND DIMENSIONS.
 - CONTRACTOR TO COORDINATE PIPE OPENING SIZES TO ACCOMMODATE FOR INCLINED PIPE ENTRY.

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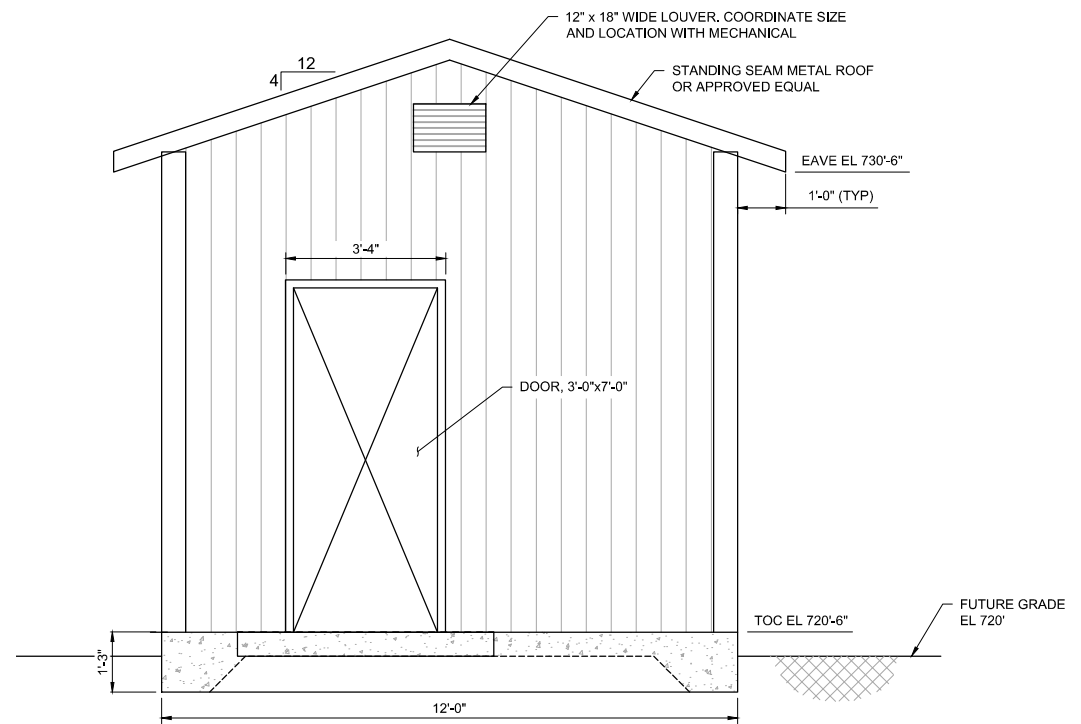
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CLIENT BID CONSTRUCTION	06/30/2021 06/30/2022						Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435	Scale Date Drawn Checked Designed Approved	AS SHOWN 02/11/2020 AWT BDP MBI MBI		FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE BURNSVILLE, MINNESOTA	BARR PROJECT No. 23/19-1372.00	
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	RELEASED TO/FOR	A		B	C	0		1	2	3



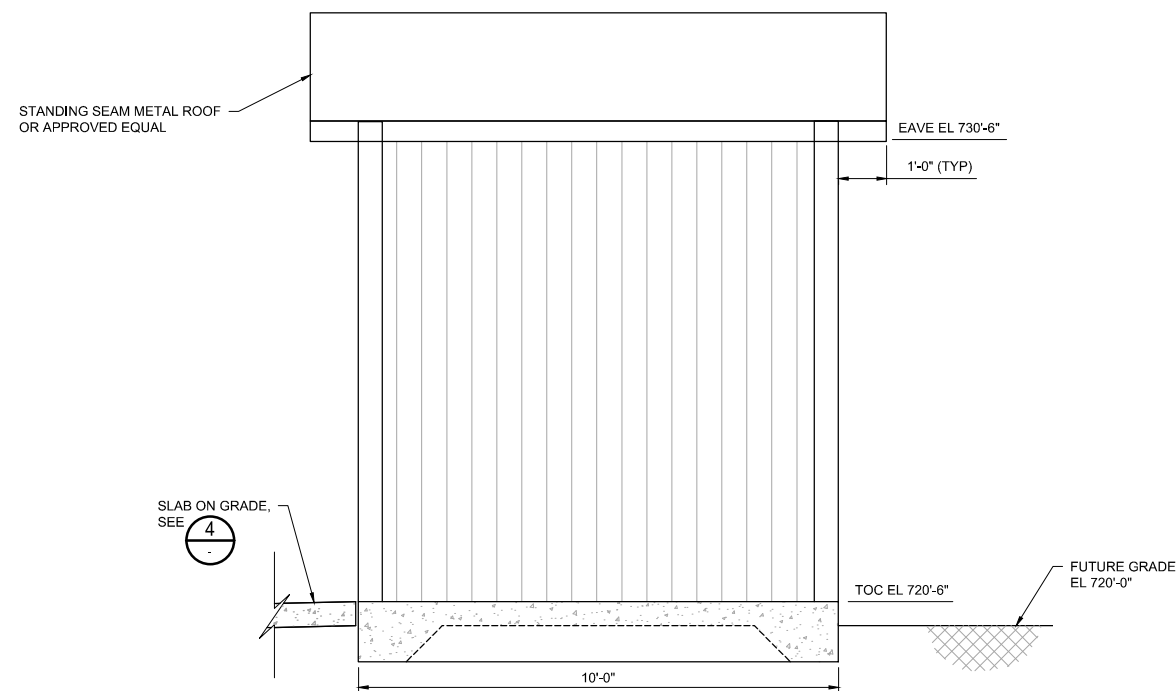
1 PLAN: FOUNDATION/FLOOR
1/2" = 1'-0"
SCALE

PLAN NOTES:

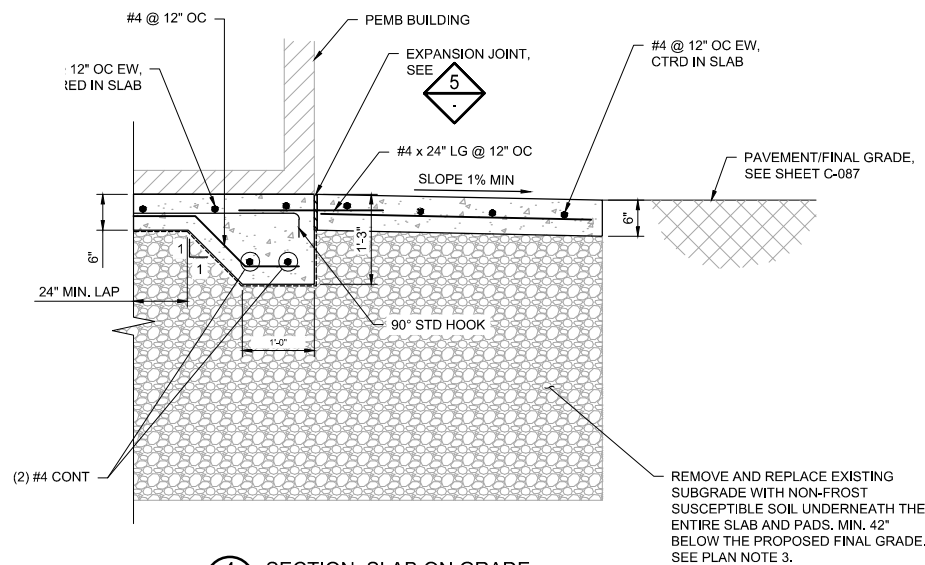
- PRE-ENGINEERED METAL BUILDING (PEMB) DESIGN BY SUPPLIER PER SPECIFICATION SECTION 13 12 02.
- 2" RIGID FOAM INSULATION WITH WHITE FRP PANEL ON EXPOSED SURFACE APPLIES TO WALLS AND CEILING.
- SELECT FILL: WELL GRADED (PER UNIFIED SOIL CLASSIFICATION SYSTEM) GRANULAR SOIL CONSISTING OF GRAVEL, SAND, AND/OR CRUSHED STONE WITH A MAXIMUM PARTICLE SIZE OF 1" AND LESS THAN 5% PASSING THE NO. 200 SIEVE. FREE OF VEGETATION, ROOTS, STICKS, BRUSH, AND OTHER NON-SOIL MATERIALS. PLACE IN MAXIMUM LOOSE LIFTS OF 12 INCHES OR LESS TO ACHIEVE THE SPECIFIED DENSITY, COMPACT TO A MINIMUM OF 98% STANDARD PROCTOR. SAMPLE EXISTING SUB-SOIL PRIOR TO THE EXCAVATION. CONSULT WITH ENGINEER ON FINAL DEPTH OF THE SELECT FILL.
- SEE S-001 FOR STRUCTURAL GENERAL NOTES AND SPECIFICATIONS.



2 ELEVATION: ELECTRICAL BUILDING - WEST FACE
1/2" = 1'-0"
SCALE



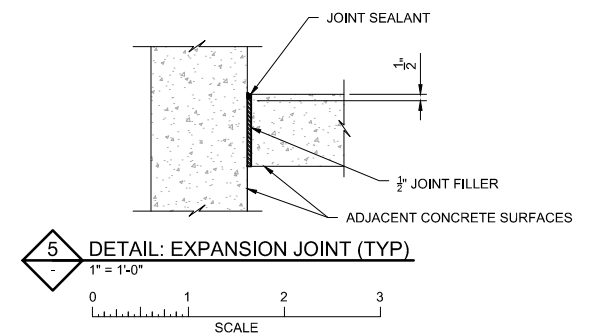
3 ELEVATION: ELECTRICAL BUILDING - SOUTH FACE
1/2" = 1'-0"
SCALE



4 SECTION: SLAB ON GRADE
3/4" = 1'-0"
SCALE

ELEVATION NOTE:

- 2" RIGID FOAM INSULATION WITH WHITE FRP PANEL ON EXPOSED SURFACE APPLIES TO WALLS AND CEILING.



5 DETAIL: EXPANSION JOINT (TYP)
1" = 1'-0"
SCALE

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CONSTRUCTION							
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DATE RELEASED							

BARR Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	02/11/2020
Drawn	AWT
Checked	BDP
Designed	BARR
Approved	-

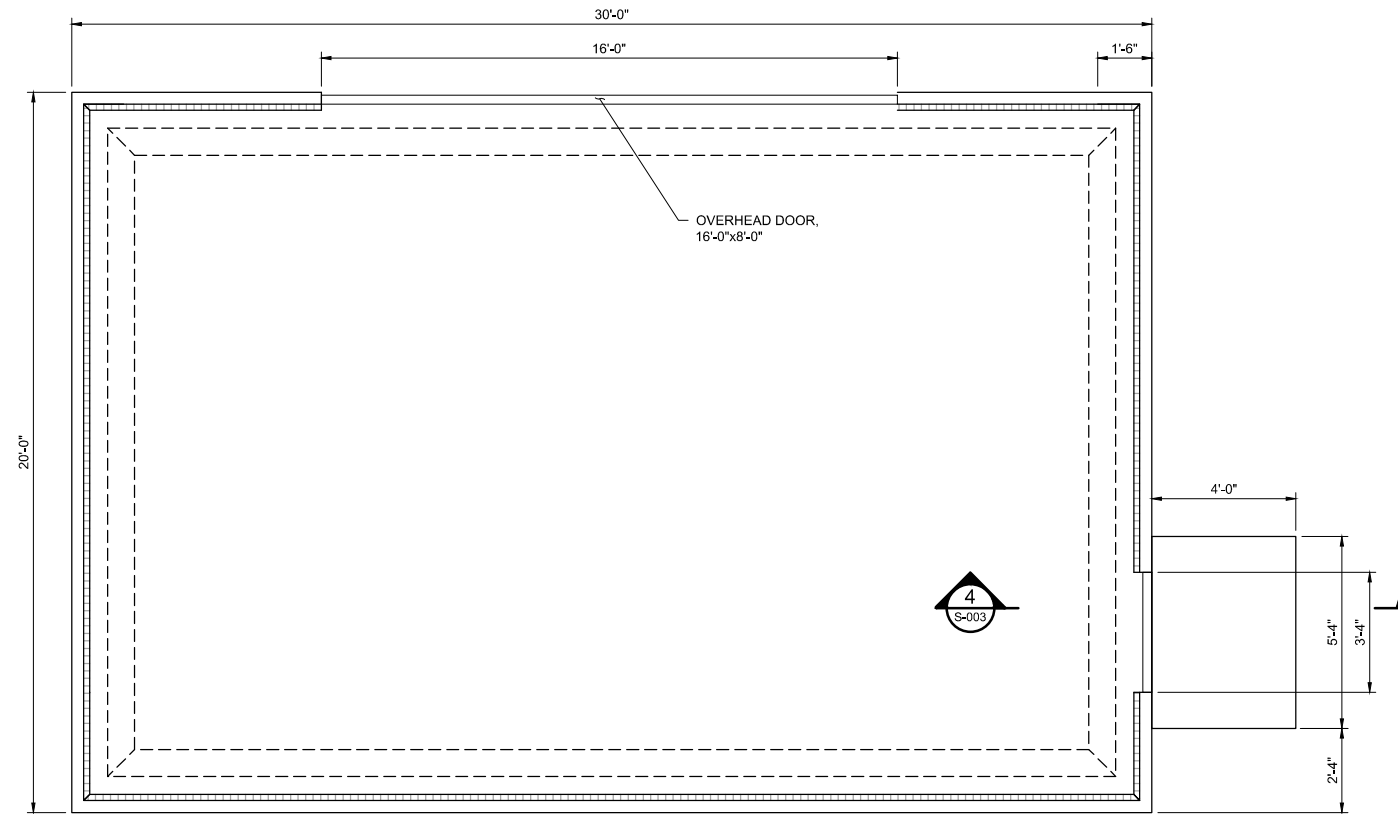
MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

ELECTRICAL BUILDING
PLAN, ELEVATIONS, SECTIONS, AND DETAILS

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	S-003
REV. No.	B

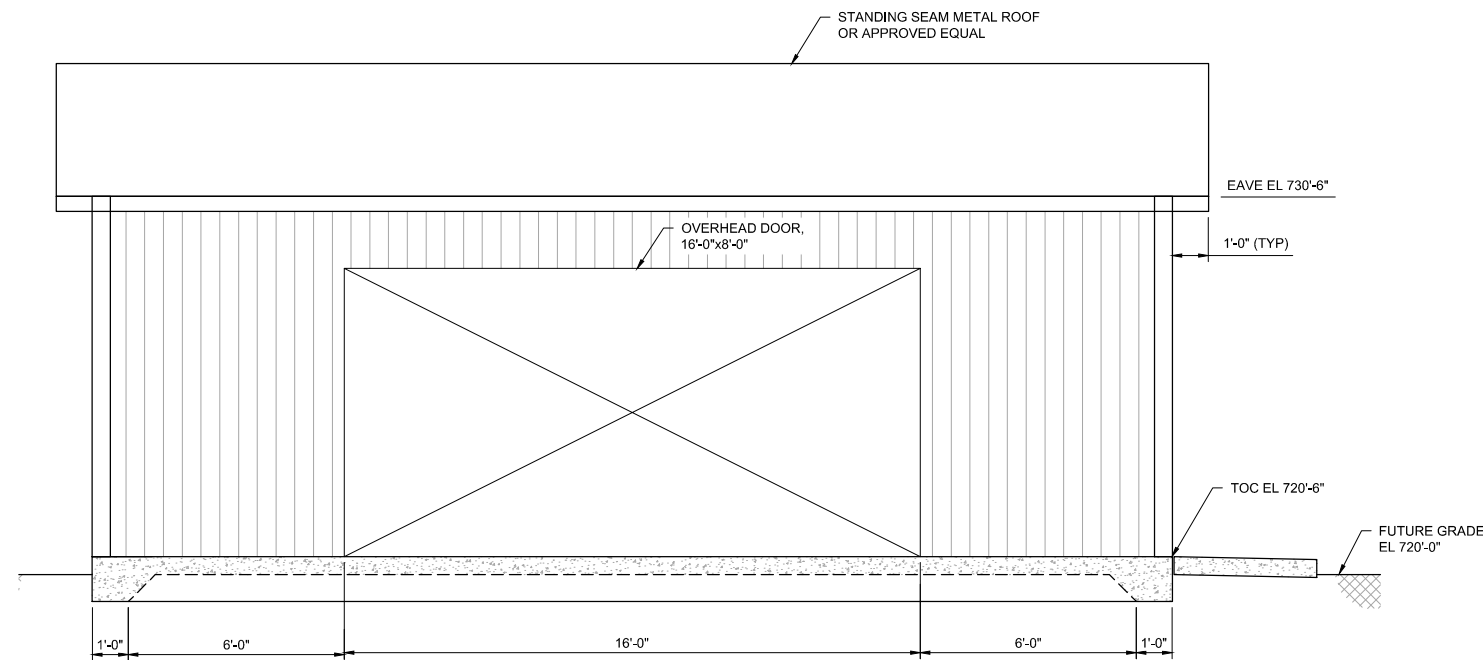
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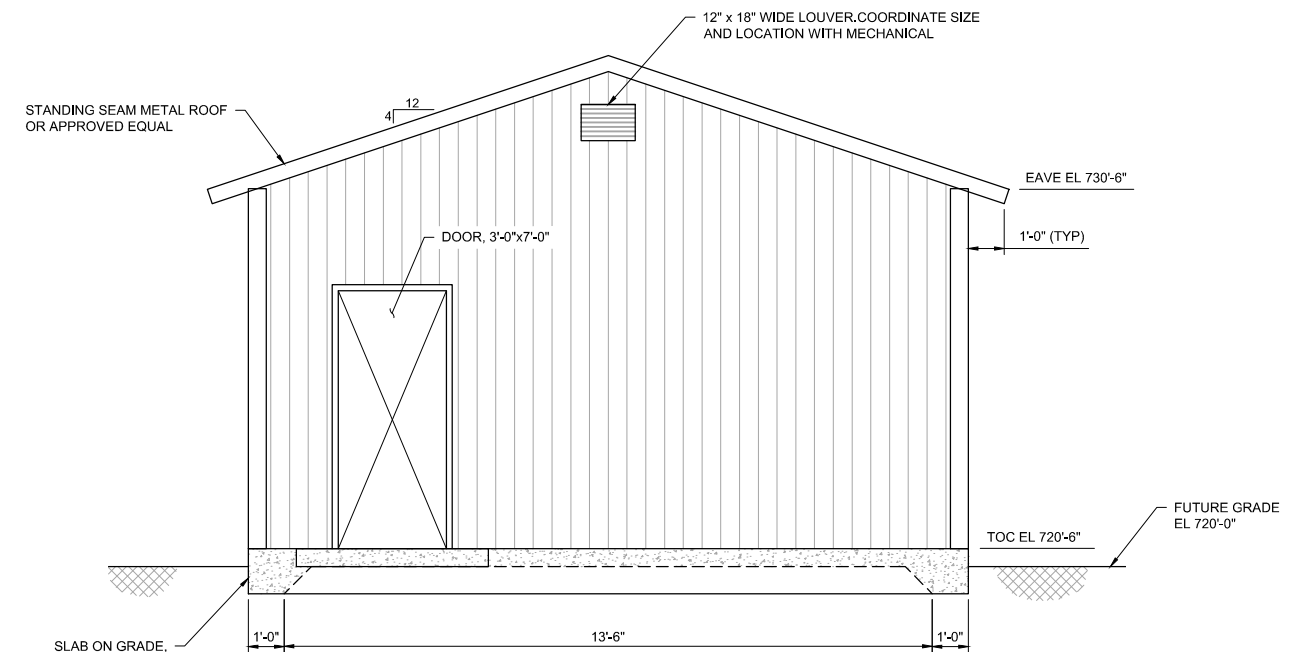
PLAN NOTES:

- BUILDING DESIGN BY SUPPLIER PER SPECIFICATION SECTION 13 12 02.
- 2" RIGID FOAM INSULATION WITH WHITE FRP PANEL ON EXPOSED SURFACE APPLIES TO WALLS AND CEILING.
- SELECT FILL: WELL GRADED (PER UNIFIED SOIL CLASSIFICATION SYSTEM) GRANULAR SOIL CONSISTING OF GRAVEL, SAND, AND/OR CRUSHED STONE WITH A MAXIMUM PARTICLE SIZE OF 1" AND LESS THAN 5% PASSING THE NO. 200 SIEVE, FREE OF VEGETATION, ROOTS, STICKS, BRUSH, AND OTHER NON-SOIL MATERIALS. PLACE IN MAXIMUM LOOSE LIFTS OF 12 INCHES OR LESS TO ACHIEVE THE SPECIFIED DENSITY, COMPACT TO A MINIMUM OF 98% STANDARD PROCTOR. SAMPLE EXISTING SUB-SOIL PRIOR TO THE EXCAVATION. CONSULT WITH ENGINEER ON FINAL DEPTH OF THE SELECT FILL.
- SEE S-001 FOR STRUCTURAL GENERAL NOTES AND SPECIFICATIONS.

1 PLAN: FOUNDATION/FLOOR
3/8" = 1'-0"
SCALE



2 ELEVATION: STORAGE BUILDING - EAST FACE
3/8" = 1'-0"
SCALE



3 ELEVATION: ELECTRICAL BUILDING - SOUTH FACE
3/8" = 1'-0"
SCALE

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DATE: _____ LICENSE # _____

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BID							
CONSTRUCTION							
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DATE RELEASED							

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4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435

Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277
Ph: 1-800-632-2277

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Date	02/11/2020
Drawn	AWT
Checked	BDP
Designed	MBI
Approved	MBI

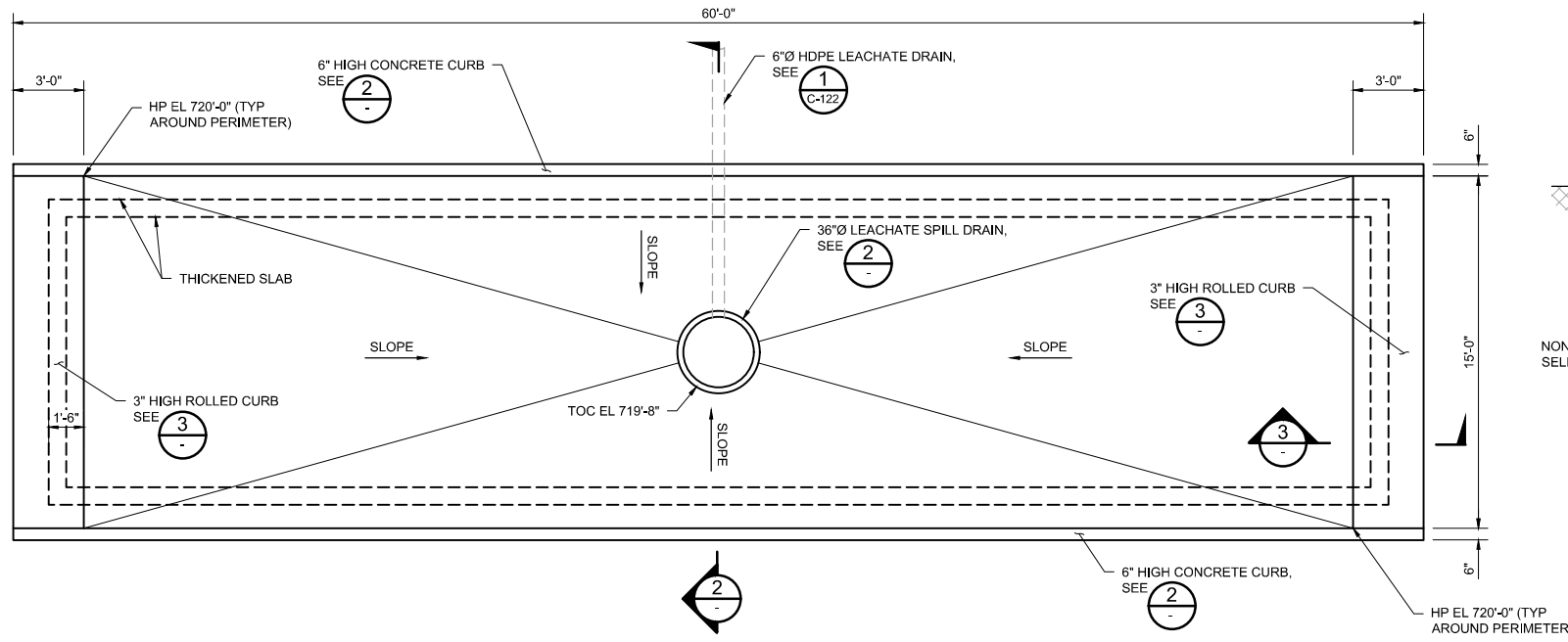
MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

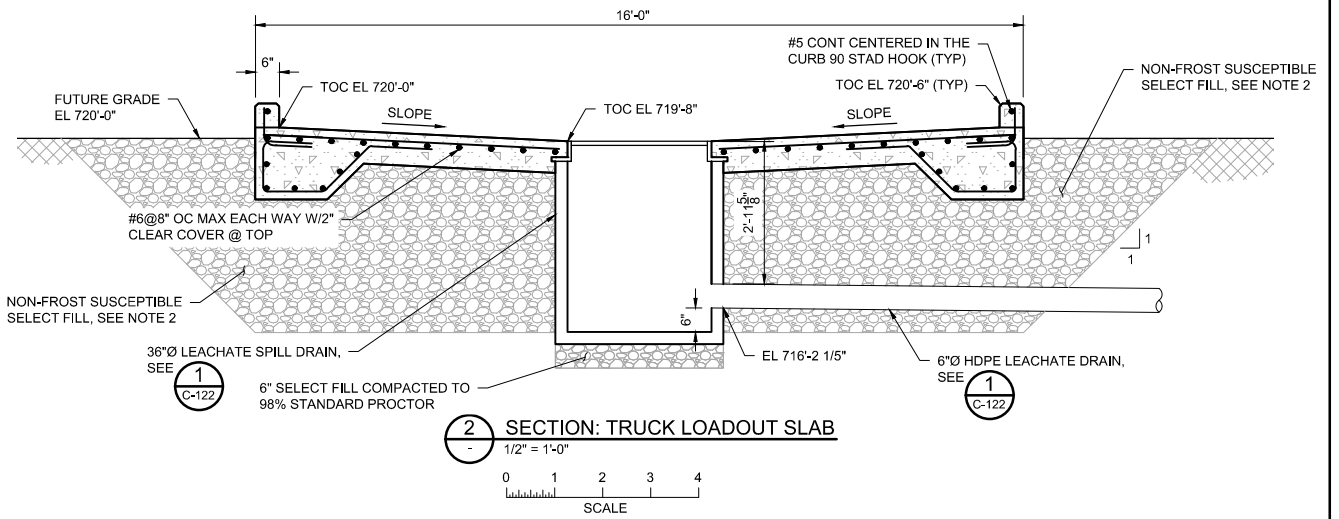
STORAGE BUILDING
PLAN, ELEVATIONS, SECTIONS, AND DETAILS

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	S-004
REV. No.	B

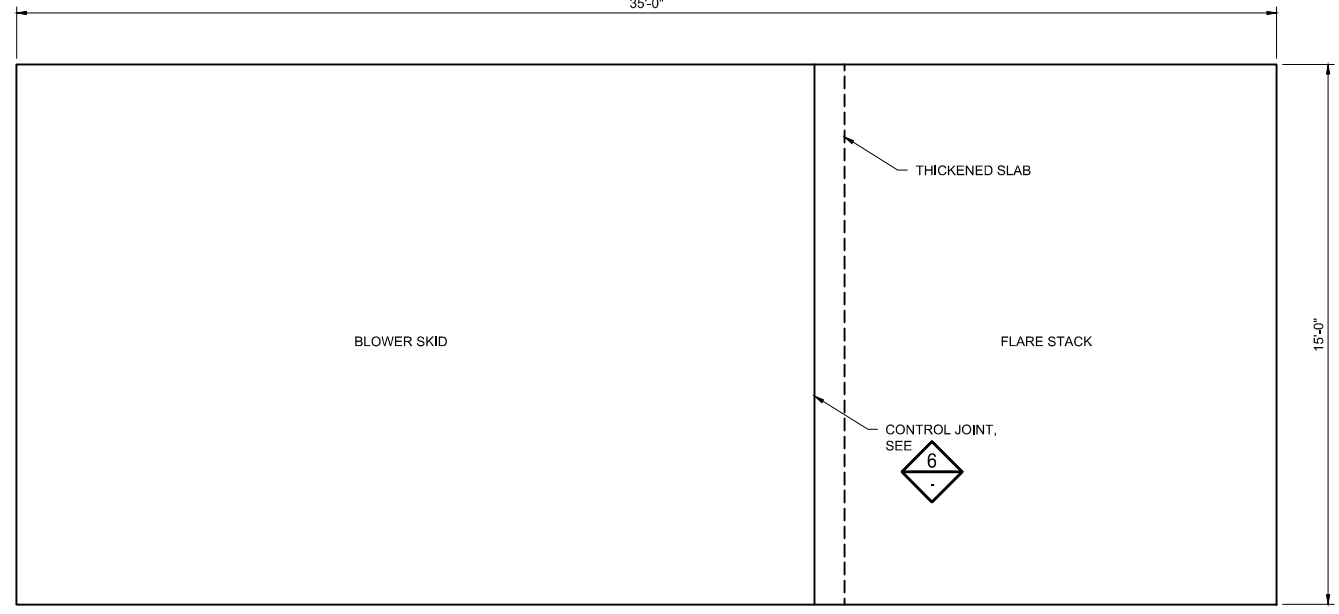
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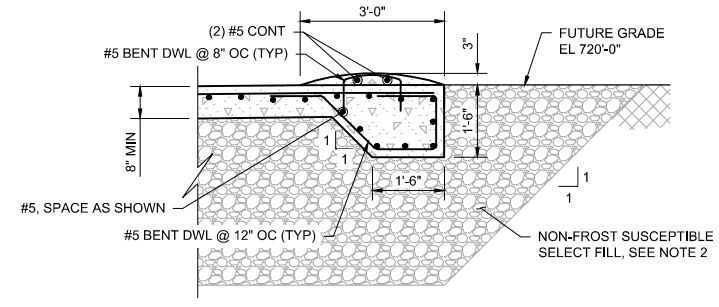
1 PLAN: TRUCK LOADOUT SLAB
 1/4" = 1'-0"
 SCALE: 0 4 8 12



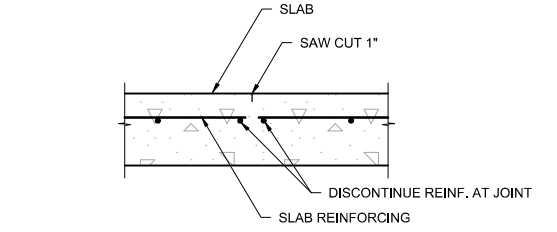
2 SECTION: TRUCK LOADOUT SLAB
 1/2" = 1'-0"
 SCALE: 0 1 2 3 4



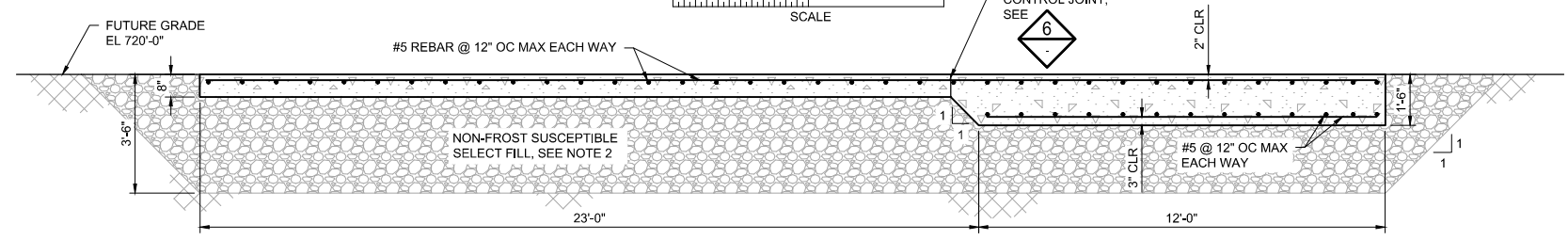
4 PLAN: BLOWER/FLARE PAD
 3/8" = 1'-0"
 SCALE: 0 1 2 3 4 8



3 SECTION: TRUCK LOADOUT SLAB
 1/2" = 1'-0"
 SCALE: 0 1 2 3 4



6 DETAIL: SLAB ON GRADE CONTROL JOINT (TYP)
 1 1/2" = 1'-0"
 SCALE: 0 1 2



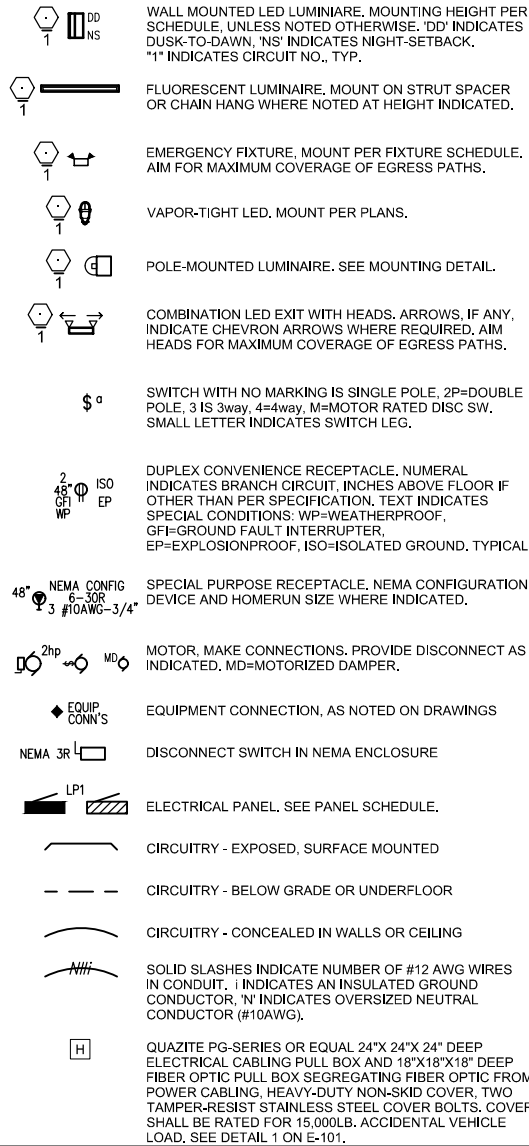
5 SECTION: BLOWER/FLARE PAD
 3/8" = 1'-0"
 SCALE: 0 1 2 3 4 8

- NOTES:**
- SEE S-001 FOR STRUCTURAL GENERAL NOTES AND SPECIFICATIONS.
 - SELECT FILL: WELL GRADED (PER UNIFIED SOIL CLASSIFICATION SYSTEM) GRANULAR SOIL CONSISTING OF GRAVEL, SAND, AND/OR CRUSHED STONE WITH A MAXIMUM PARTICLE SIZE OF 1" AND LESS THAN 5% PASSING THE NO. 200 SIEVE. FREE OF VEGETATION, ROOTS, STICKS, BRUSH, AND OTHER NON-SOIL MATERIALS. PLACE IN MAXIMUM LOOSE LIFTS OF 12 INCHES OR LESS TO ACHIEVE THE SPECIFIED DENSITY. COMPACT TO A MINIMUM OF 98% STANDARD PROCTOR. SAMPLE EXISTING SUB-SOIL PRIOR TO THE EXCAVATION. CONSULT WITH ENGINEER ON FINAL DEPTH OF THE SELECT FILL. MIN. 42" BELOW THE FINAL GRADE.

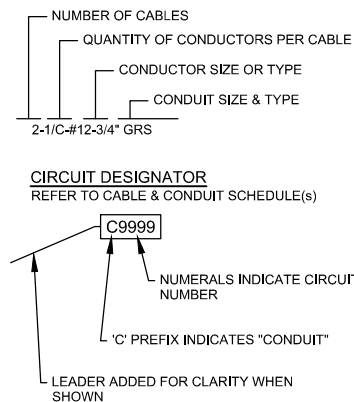
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PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE #: _____		RELEASED TO/FOR: A B C 0 1 2 3	DATE RELEASED: _____	Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	BLOWER/FLARE SLAB AND TRUCK LOADOUT SLAB PLANS, SECTIONS, AND DETAILS	CLIENT PROJECT No. DWG. No. S-005 REV. No. B

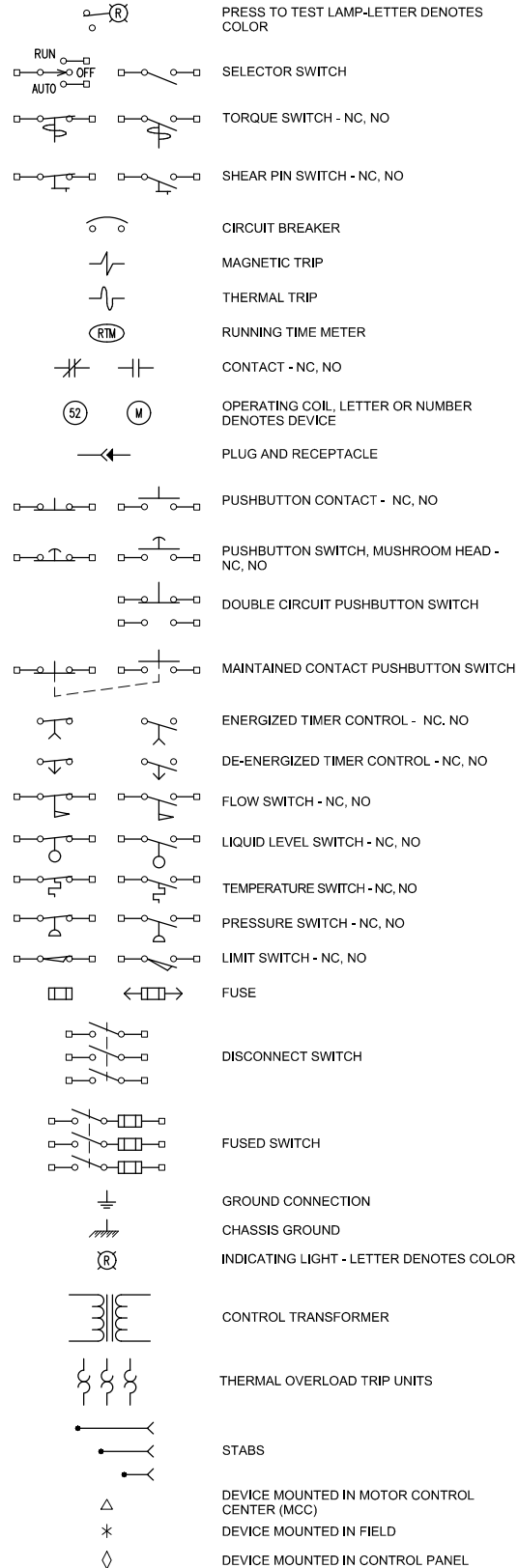
LUMINAIRE & DEVICE LEGEND



CIRCUIT LEGEND



SCHEMATIC SYMBOLS



ONE-LINE DIAGRAM SYMBOLS

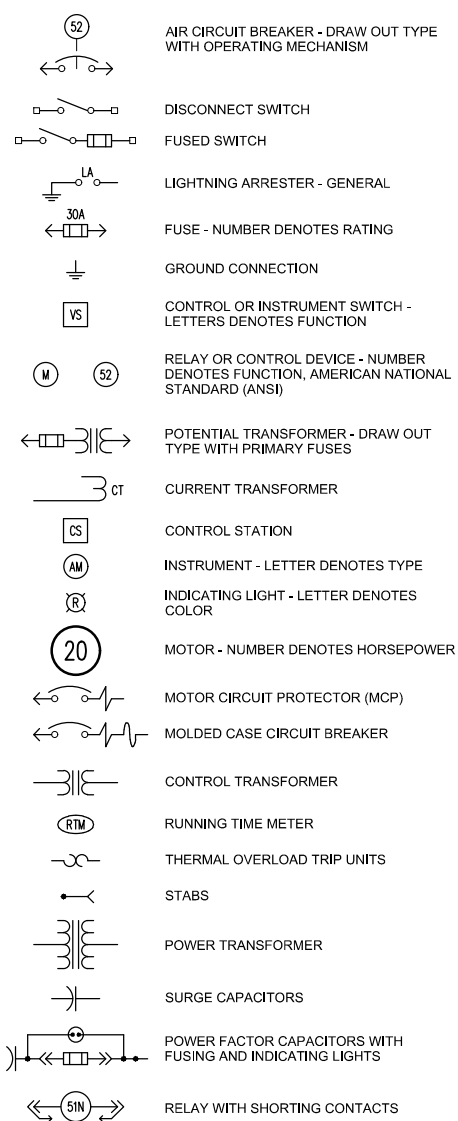


TABLE E-101

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
A	AMPERES
ACK	ACKNOWLEDGE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AM	AMMETER
ANN	ANNUNCIATOR
AS	AMMETER SWITCH
AWG	AMERICAN WIRE GAGE
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CKT	CIRCUIT
CL	CENTER LINE
CO	CONVENIENCE OUTLET
CONN	CONNECTIONS
CONTR	CONTRACTOR
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CS	CONTROL STATION
CT	CURRENT TRANSFORMER
CU	COPPER
DE	DUAL ELEMENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
EP	EXPLOSION PROOF
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
F & I	FURNISH AND INSTALL
FU	FUSE OR FUSIBLE
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL CONDUIT
HD	HEAVY DUTY
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HZ	HERTZ (CYCLES/SECOND)
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IND	INDICATING OR INDICATOR
JB	JUNCTION BOX
J-BOX	JUNCTION BOX
KVA	KILOVOLT-AMPERES
KVAR	KILOVOLT-AMPERES REACTIVE
KW	KILOWATTS
LT	LIGHT
LMF	LIQUID-TIGHT METALLIC FLEXIBLE CONDUIT

TABLE E-101

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
M	MOTOR STARTER OPERATING COIL
MAX	MAXIMUM
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINUTE OR MINIMUM
MTD	MOUNTED
NF	NON-FUSED
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTC	NOT CONNECTED
OL(S)	OVERLOAD RELAY CONTACT(S)
PF	POWER FACTOR
PVC	POLYVINYLCHLORIDE CONDUIT
REQ'D	REQUIRED
RS	RIGID STEEL CONDUIT
RTM	RUNNING TIME METER
SDS	SPECIFIED IN OTHER DIVISION OF SPECIFICATION
SE	SERVICE ENTRANCE
SEC	SECOND OR SECONDARY
SIG	SIGNAL
SOL Vv	SOLENOID VALVE
SP	SINGLE POLE
SPECS	SPECIFICATIONS
SSNR	"SOFT START" NON-REVERSING
SSR	"SOFT START" REVERSING
SW	SWITCH
S.S.	STAINLESS STEEL (TYPE 316)
TD	TIME DELAY
TEMP	TEMPERATURE
T'STAT	THERMOSTAT
UH	UNIT HEATER
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTS
VM	VOLTMETER
VS	VOLTMETER SWITCH
Vv	VALVE
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS OR WIRE
W/	WITH
WHM	WATT-HOUR METER
WM	WATT METER
WW	WIREFWAY
WP	WEATHERPROOF
XDCR	TRANSDUCER
XFMR	WATTS OR WIRE
XFR	WITH

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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DATE _____ LICENSE # _____

CLIENT	06/30/2021	06/30/2022					
BID							
CONSTRUCTION							
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DATE RELEASED							

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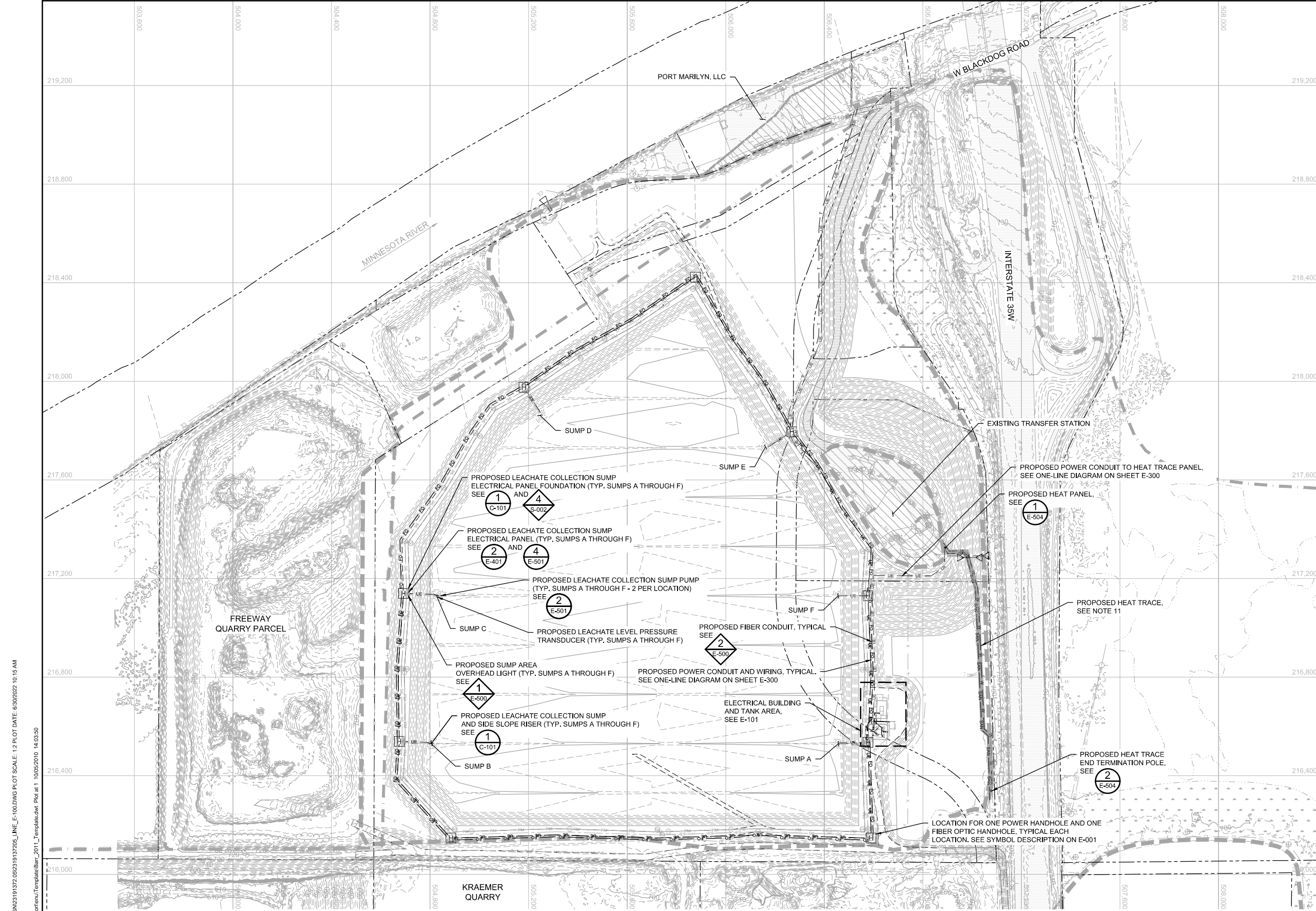
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Date	02/11/2020
Drawn	AWT
Checked	MEZ
Designed	MDK
Approved	MEZ

MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

ELECTRICAL
SYMBOLS AND ABBREVIATIONS

BARR PROJECT No. 23/19-1372.00	CLIENT PROJECT No.
DWG. No. E-001	REV. No. B



LEGEND

CL	CL	CONSTRUCTION LIMITS
---	---	PROPERTY BOUNDARY
---	---	EXISTING FLOODWAY BOUNDARY
---	---	EXISTING WATERLINE (2020-06-12)
---	---	10-FOOT CONTOUR
---	---	2-FOOT CONTOUR
OE	OE	EXISTING OVERHEAD ELECTRIC
UE	UE	EXISTING UNDERGROUND ELECTRIC
W	W	EXISTING POTABLE
SS	SS	EXISTING STORM
SS	SS	EXISTING CULVERT
SAN	SAN	EXISTING SANITARY
X	X	EXISTING CHAIN LINK FENCE
---	---	EXISTING TREE LINE
---	---	APPROXIMATE LIMITS OF WASTE REMOVAL
---	---	APPROXIMATE LIMITS OF WASTE TO REMAIN
---	---	EXISTING BUILDING
---	---	WETLANDS
---	---	EXISTING BITUMINOUS PAVEMENT
---	---	EXISTING GRAVEL PAVEMENT
---	---	PROPOSED BUILDING
---	---	PROPOSED BITUMINOUS PAVEMENT
---	---	PROPOSED GRAVEL PAVEMENT
---	---	PROPOSED HEAT TRACE
UE	UE	PROPOSED UNDERGROUND ELECTRIC
FO	FO	PROPOSED UNDERGROUND FIBER OPTIC
T	T	PROPOSED UNDERGROUND TELEPHONE LINE
W	W	PROPOSED WATER
SAN	SAN	PROPOSED SANITARY
FM	FM	PROPOSED LEACHATE FORCE MAIN
SS	SS	PROPOSED STORM SEWER
X	X	PROPOSED CHAIN LINK FENCE
---	---	PROPOSED CULVERT
---	---	PROPOSED GATE
H	H	PROPOSED PULL BOX
---	---	PROPOSED LEACHATE MANHOLE

- NOTES**
- SEE SHEET E-300 FOR CABLING AND CONDUIT SIZES.
 - SEE SHEET E-500 FOR FIBER OPTIC NETWORK CONFIGURATION.
 - MOUNT ALL ELECTRICAL PANELS AT LEAST 10 FEET FROM SUMPS AND TANKS TO BE OUTSIDE CLASSIFIED AREA.
 - COORDINATE NEW ELECTRIC SERVICES AND METERING REQUIREMENTS WITH SERVING UTILITY PRIOR TO ORDERING EQUIPMENT AND CONSTRUCTION.
 - FIELD CONFIRM LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, CABLES, CONDUITS, ETC. PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPAIR SUCH ITEMS AT NO COST IF DAMAGED BY CONTRACTOR.
 - FIELD CONFIRM ALL CONDUIT ROUTING.
 - SEAL ALL CONDUITS TO EXTERIOR USING DUCTSEAL OR 1/2" THICKNESS SILICONE CAULK.
 - EACH PULL BOX LOCATION SHALL HAVE A 24"x24"x24" POWER CABLE PULL BOX AND AN 18"x18"x18" FIBER OPTIC CABLE PULL BOX. POWER AND FIBER OPTIC CABLES SHALL BE RUN IN SEPARATE CONDUITS AND PULL BOXES.
 - FIBER OPTIC CABLE SHALL BE RUN IN 2" CONDUITS UNLESS OTHERWISE NOTED.
 - PROVIDE TEMPORARY POWER AND COMMUNICATIONS TO EXISTING TRANSFER STATION TO ENSURE TRANSFER STATION HAS POWER AND COMMUNICATIONS DURING ALL STAGES OF CONSTRUCTION THAT INTERRUPT THE EXISTING UNDERGROUND ELECTRICAL FEED. PROVIDE PERMANENT POWER AND COMMUNICATIONS AT END OF PROJECT. COORDINATE WITH ELECTRICAL UTILITY AND PROJECT ENGINEER FOR REROUTING OF UNDERGROUND FEED.
 - HEAT TRACE ENTIRE LENGTH OF NEW WATER SUPPLY LINE AND NEW SEWER LINE THAT SERVICE THE EXISTING TRANSFER STATION. ROUTE POWER CABLES FROM ELECTRICAL BUILDING TO 18"x18"x8" ABOVE GROUND NEMA OR JUNCTION BOX AT END OF NEW PIPING. PROVIDE 1 HEAT TRACE RUN PER PIPE. TERMINATE ENDS OF ALL HEAT TRACE ABOVE GROUND IN WATER RESISTANT BOXES MOUNTED ON END TERMINATION POLE. ENSURE THAT HEAT TRACE PANEL AND HEAT TRACE END TERMINATION KITS ARE ABOVE 100 YEAR FLOOD LINE.

1 PLAN: ELECTRICAL SITE

0 200 400
SCALE IN FEET

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CONSTRUCTION									
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Scale	AS SHOWN
Date	09/05/2019
Drawn	AWT
Checked	MEZ
Designed	MDK
Approved	MEZ



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

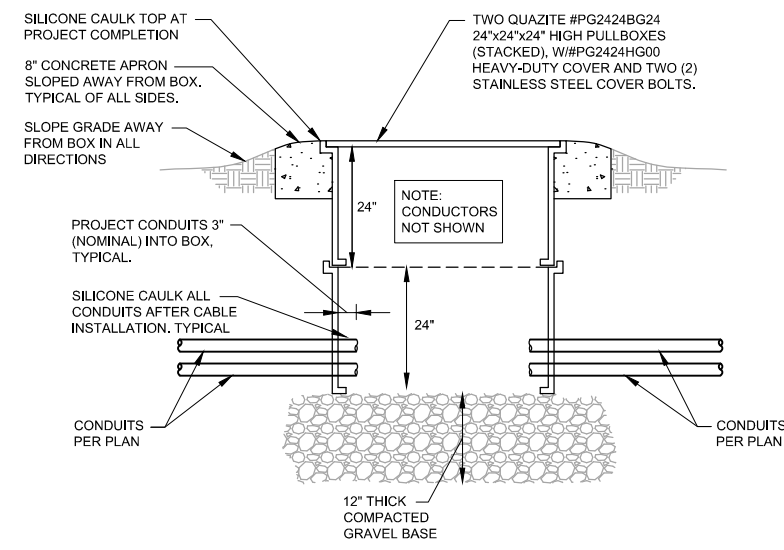
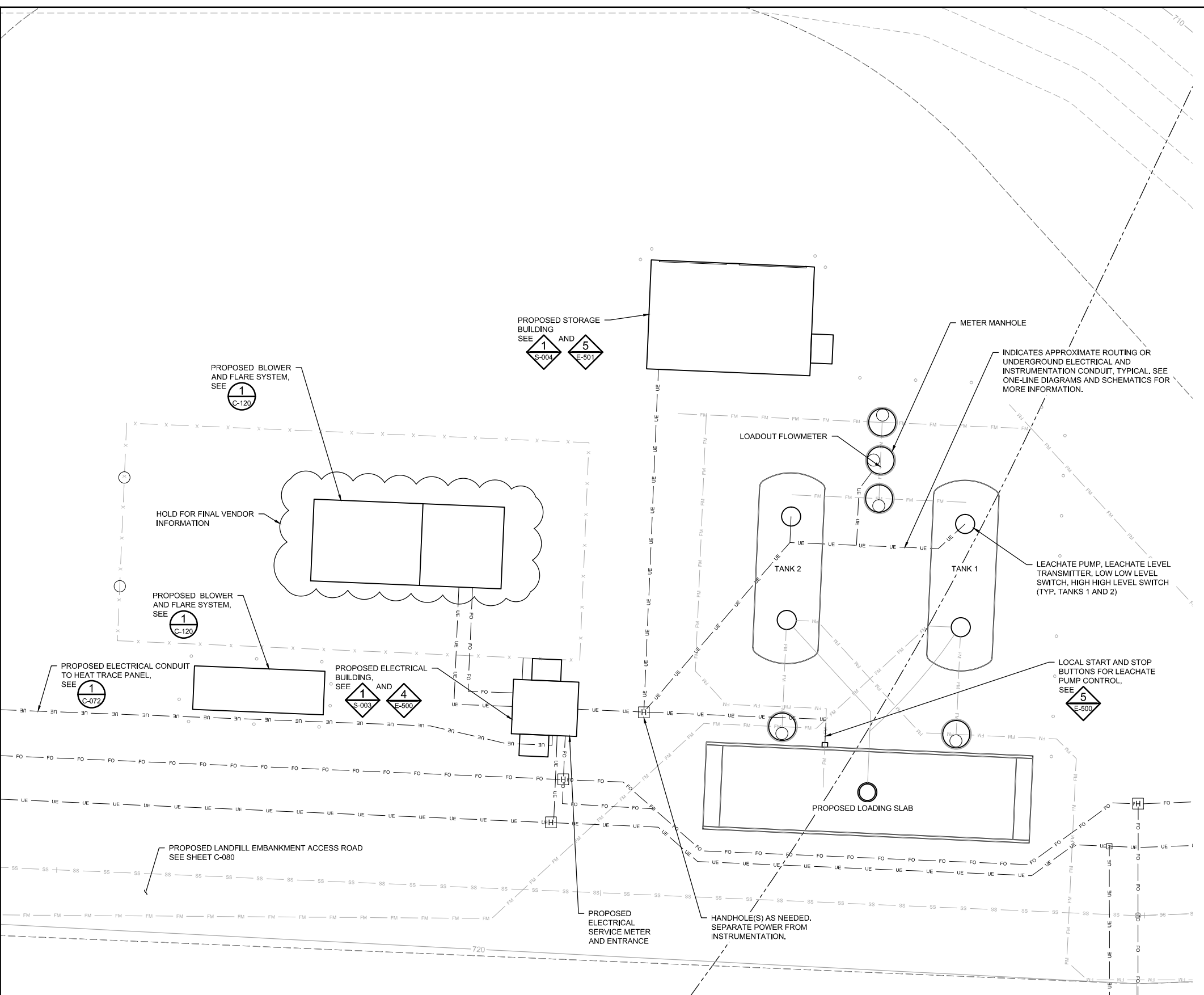
ELECTRICAL SITE
PLAN

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	E-100
REV. No.	B

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

LEGEND

	PROPOSED 10-FOOT CONTOUR
	PROPOSED 2-FOOT CONTOUR
	PROPOSED BUILDING
	PROPOSED GRAVEL PAVEMENT
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED FIBER OPTIC
	PROPOSED LEACHATE PIPING
	PROPOSED STORM SEWER
	PROPOSED CHAIN LINK FENCE
	PROPOSED ELECTRIC HANDHOLE



1 DETAIL: AT GRADE HANDHOLE
NO SCALE HANDHOLE TYPE 3

NOTES

- SEE SHEET E-300 FOR CABLING AND CONDUIT SIZES.
- SEE SHEET E-500 FOR FIBER OPTIC NETWORK CONFIGURATION.
- MOUNT ALL ELECTRICAL PANELS AT LEAST 10 FEET FROM SUMPS AND TANKS TO BE OUTSIDE CLASSIFIED AREA.
- COORDINATE NEW ELECTRIC SERVICES AND METERING REQUIREMENTS WITH SERVING UTILITY PRIOR TO ORDERING EQUIPMENT AND CONSTRUCTION.
- FIELD CONFIRM LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, CABLES, CONDUITS, ETC. PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPAIR SUCH ITEMS AT NO COST IF DAMAGED BY CONTRACTOR.
- FIELD CONFIRM ALL CONDUIT ROUTING.
- SEAL ALL CONDUITS TO EXTERIOR USING DUCTSEAL OR 1/2" THICKNESS SILICONE CAULK.
- POWER CABLES SHALL BE RUN IN SEPARATE CONDUITS AND RACEWAYS FROM CONTROL AND INSTRUMENTATION CABLING.

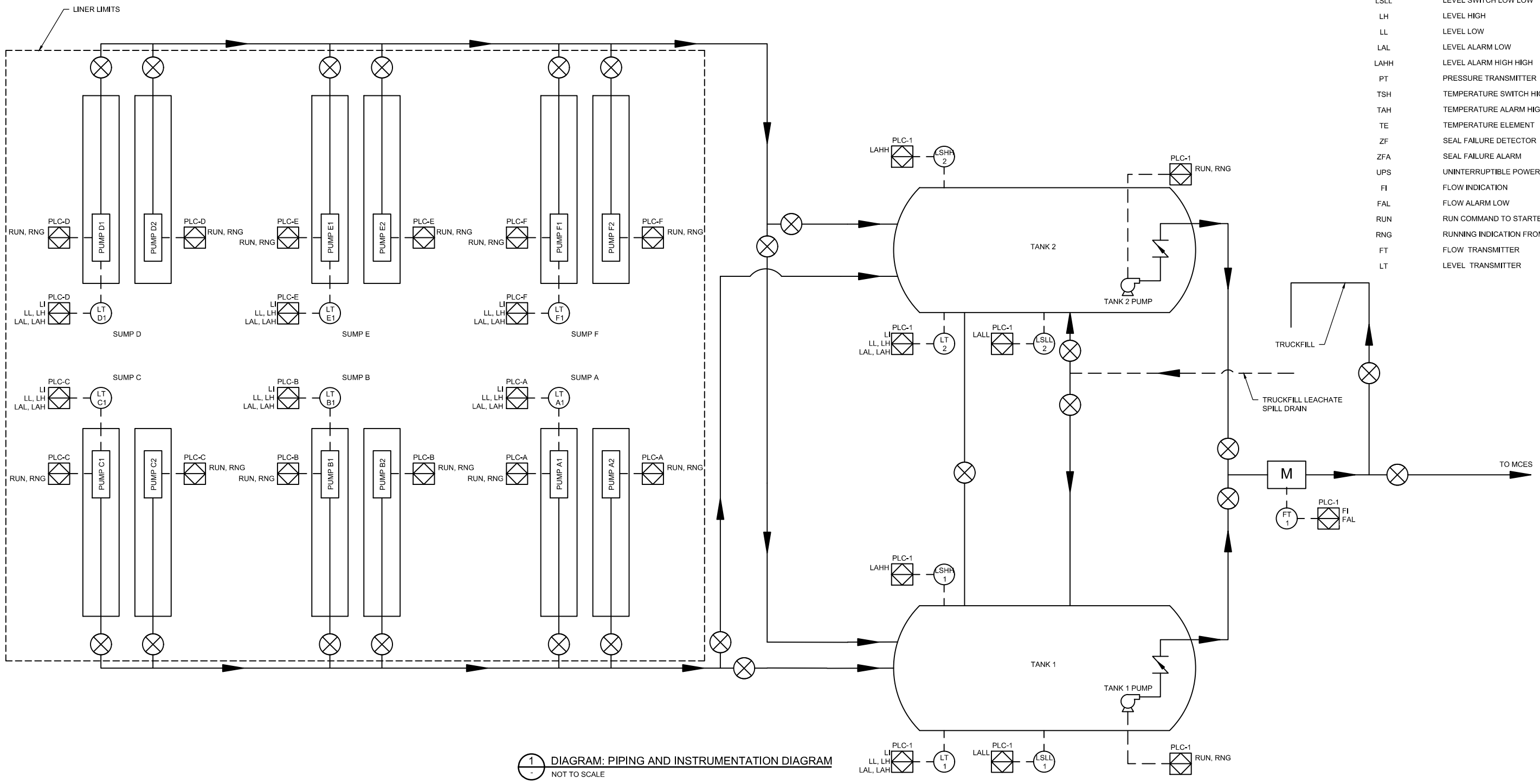
1 PLAN: ELECTRICAL BUILDING AND TANK AREA ELECTRICAL
SCALE IN FEET
0 10 20

100% DRAFT
NOT FOR CONSTRUCTION
06/30/2022

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--	--	--	--	---	--	--	--	---	--	--	--	---	--	--	--	--	--	--	--	---	--	--	--

- LEGEND**
- ⊗ VALVE
 - ⌞ CHECK VALVE
 - ⊞ PUMP
 - Ⓜ FLOW METER
- ABBREVIATIONS**
- LI LEVEL INDICATION
 - LSHH LEVEL SWITCH HIGH HIGH
 - LSH LEVEL SWITCH HIGH
 - LSLL LEVEL SWITCH LOW LOW
 - LH LEVEL HIGH
 - LL LEVEL LOW
 - LAL LEVEL ALARM LOW
 - LAHH LEVEL ALARM HIGH HIGH
 - PT PRESSURE TRANSMITTER
 - TSH TEMPERATURE SWITCH HIGH
 - TAH TEMPERATURE ALARM HIGH
 - TE TEMPERATURE ELEMENT
 - ZF SEAL FAILURE DETECTOR
 - ZFA SEAL FAILURE ALARM
 - UPS UNINTERRUPTIBLE POWER SUPPLY
 - FI FLOW INDICATION
 - FAL FLOW ALARM LOW
 - RUN RUN COMMAND TO STARTER/MOTOR
 - RNG RUNNING INDICATION FROM STARTER/MOTOR
 - FT FLOW TRANSMITTER
 - LT LEVEL TRANSMITTER



1 DIAGRAM: PIPING AND INSTRUMENTATION DIAGRAM
NOT TO SCALE

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06/30/2022

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SIGNATURE: _____
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CONSTRUCTION									
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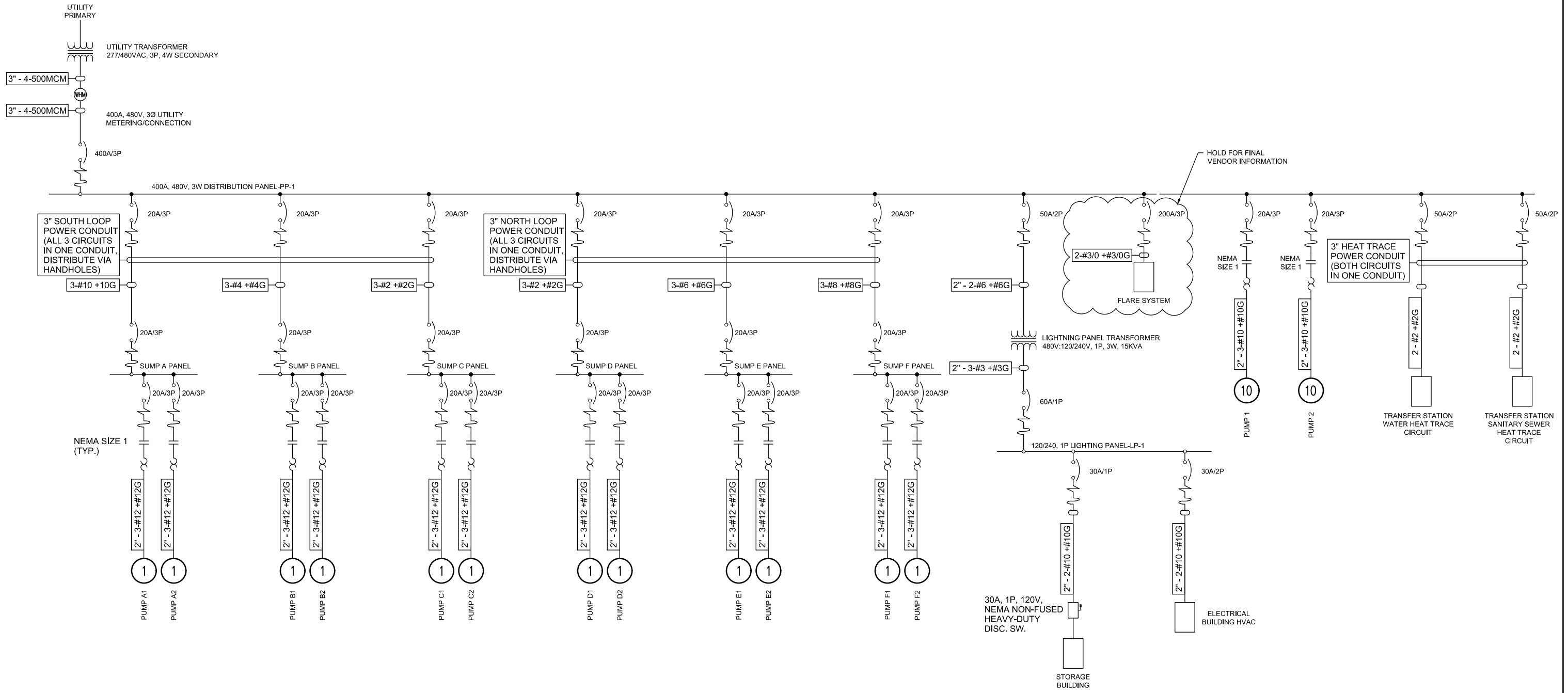
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Date	04/13/2021
Drawn	TCK
Checked	MEZ
Designed	MDK
Approved	MEZ



FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

PIPING AND INSTRUMENTATION DIAGRAM

BARR PROJECT No.	23/19-1372.00
CLIENT PROJECT No.	
DWG. No.	E-200
REV. No.	B

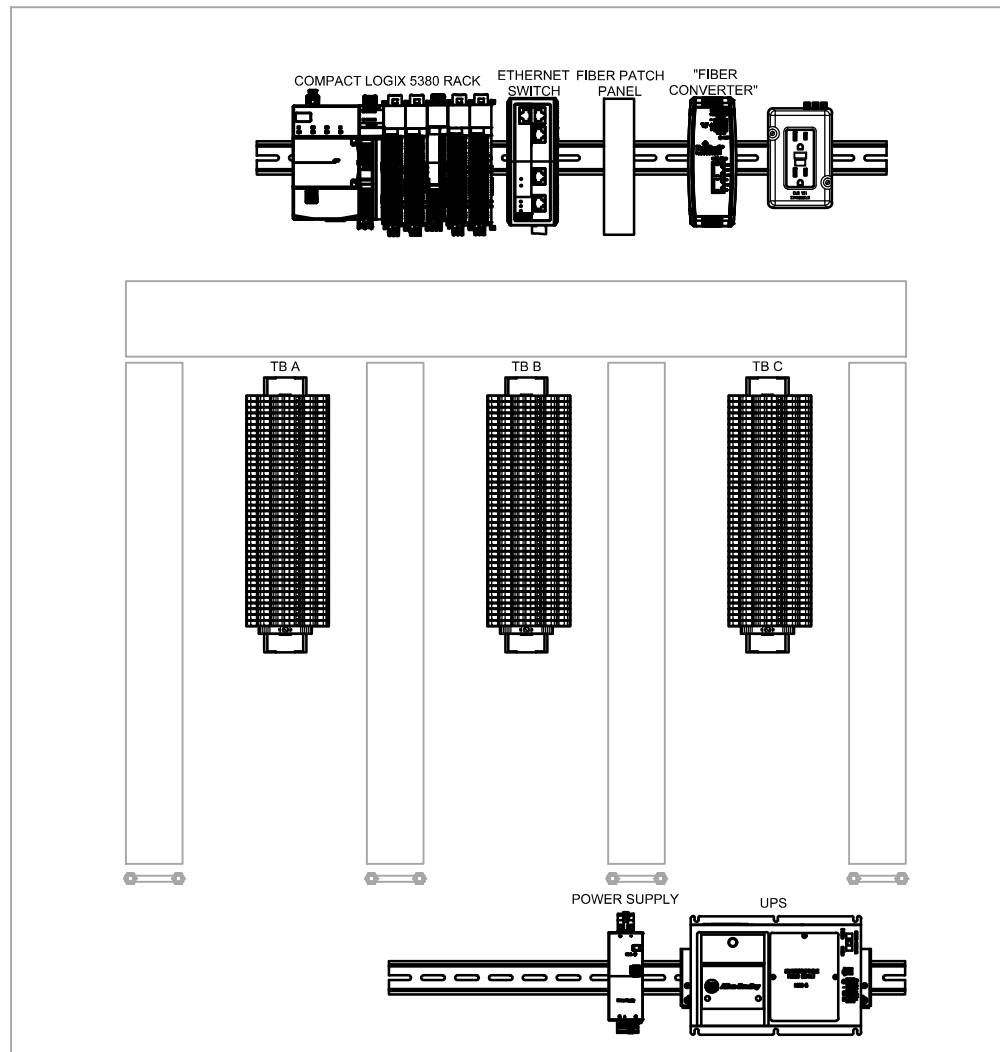


1 DIAGRAM: ELECTRICAL SINGLE LINE
NOT TO SCALE

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NOT FOR CONSTRUCTION
06/30/2022

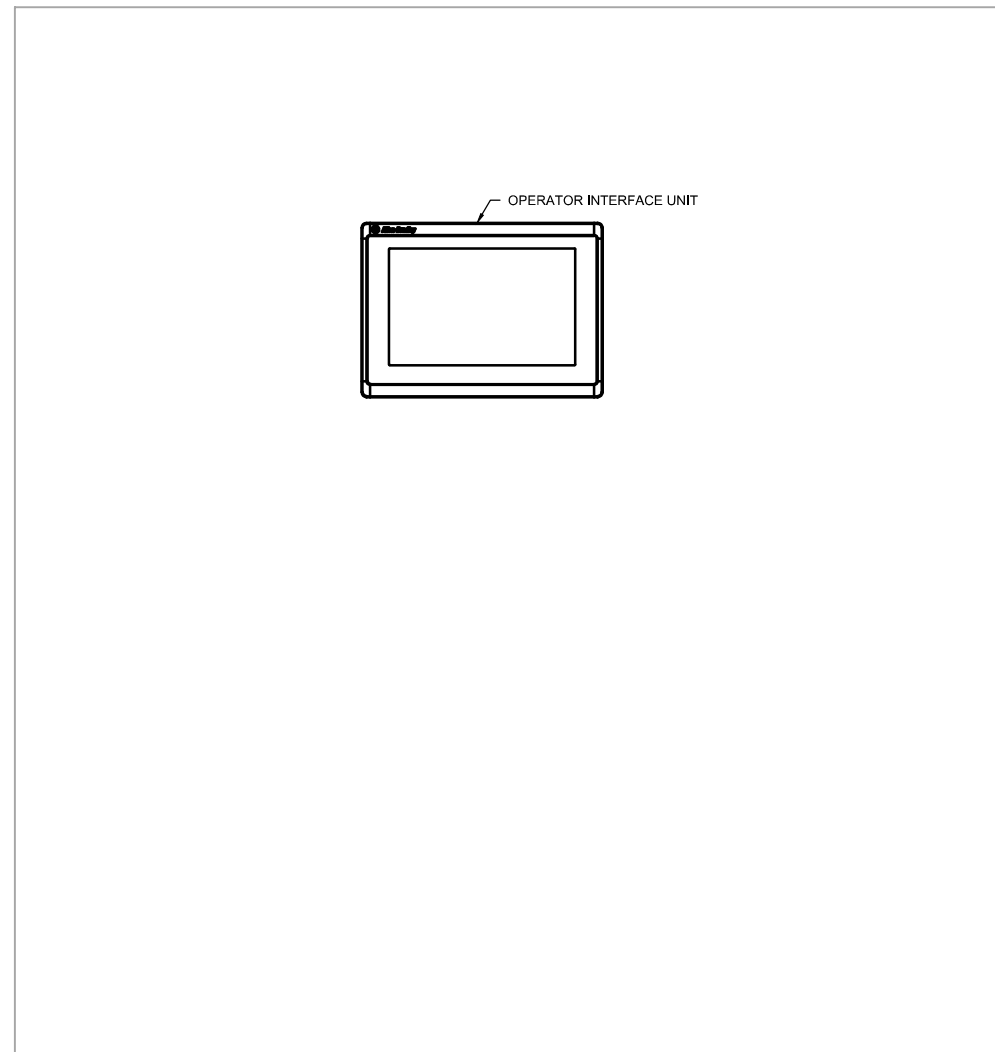
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	RELEASED TO/FOR	DATE RELEASED	Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com	DWG. No. E-300		REV. No. B	

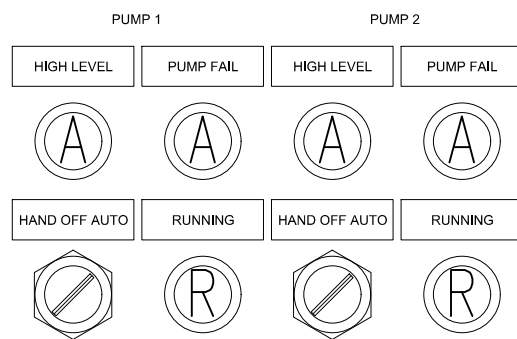


MAIN CONTROL PANEL SCHEMATIC PROPOSED LAYOUT FOR SIZING PURPOSES

1 PROPOSED: MAIN CONTROL PANEL LAYOUT
NOT TO SCALE



2 PROPOSED: MAIN CONTROL PANEL FRONT COVER DETAIL
NOT TO SCALE



3 DETAIL: REMOTE PANEL INDICATION, TYP. 6 LOCATIONS
NOT TO SCALE

LIGHTING PANEL LP-1									
MOUNTING	LOCATION	BUS				REMARKS			
SURFACE	ELECTRICAL BUILDING	AMPS	VOLTS	PHASE	WIRE	1.	2.	3.	
		100	120/240V	1	3	-	-	-	
CIRCUIT DESCRIPTION	BKR	CKT	ANTICIPATED LOAD IN VA	PH	ANTICIPATED LOAD IN VA	CKT	BKR	CIRCUIT DESCRIPTION	
MAIN BREAKER	60A 2P	1	---	A	---	2	20A 1P	GFCI RECEPTACLE IN ELECTRICAL BUILDING	
		3		B		4	20A 1P	LIGHTING IN ELECTRICAL BUILDING	
ELECTRICAL BUILDING HVAC UNIT	30A 2P	5		A		6	20A 1P	STORAGE BUILDING LIGHTING/POWER	
		7		B		8	30A 1P	SPARE	
SPARE	20A 2P	9	---	A	---	10	20A 1P	SPARE	
		11		B		12	20A 1P	-	
PLC PANEL	20A 1P	13		A		14	20A 1P	-	
-	XA 1P	15	---	B	---	16	20A 1P	-	
-	XA 1P	17		A		18	20A 1P	-	
-	XA 1P	19		B		20	20A 1P	-	
-	XA 1P	21	---	A	---	22	XA 1P	-	
-	XA 1P	23		B		24	20A 1P	-	

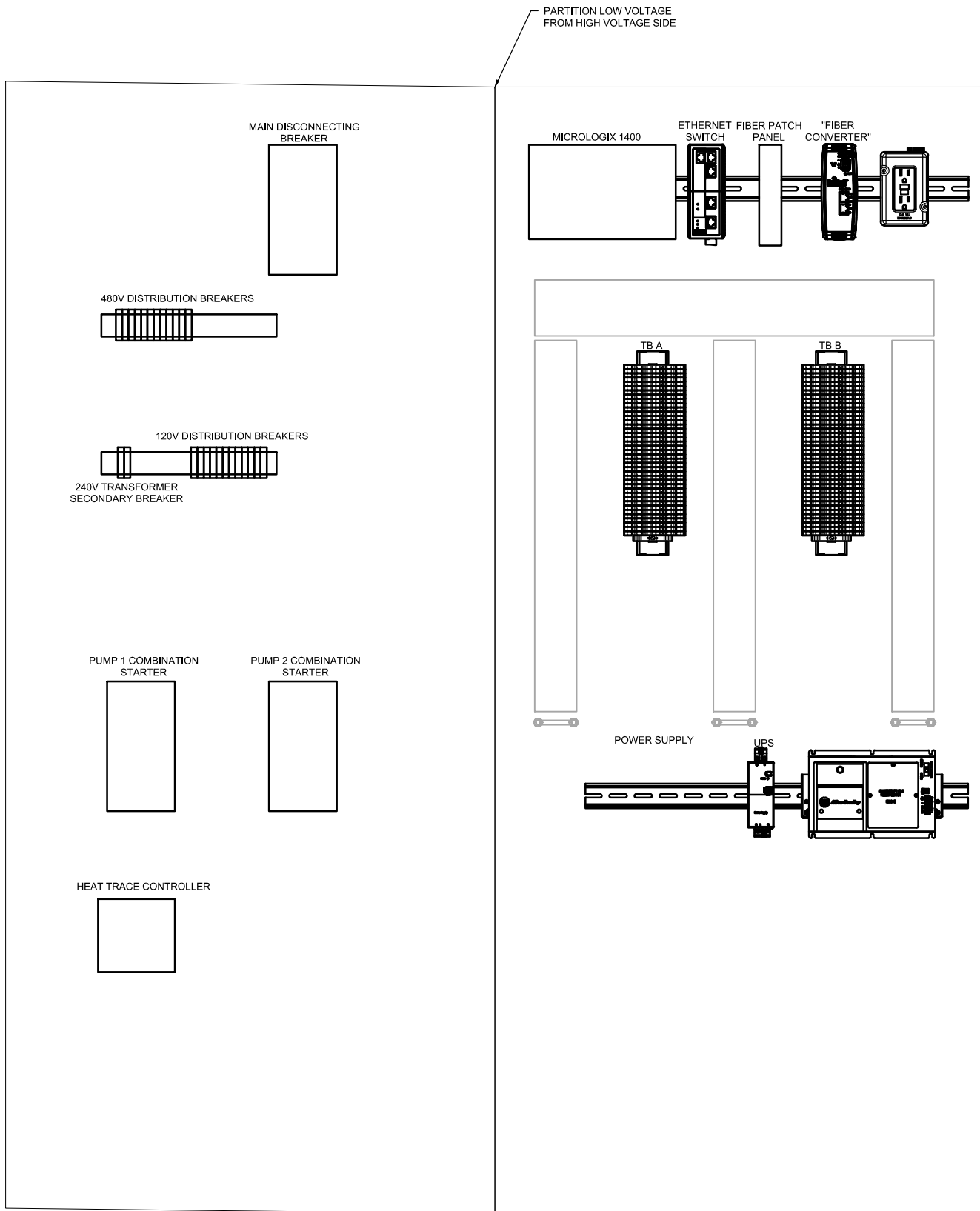
NOTES:
1. USE #12 FOR NEUTRAL AND GROUND CONDUCTORS UNLESS OTHERWISE INDICATED.

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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION																		

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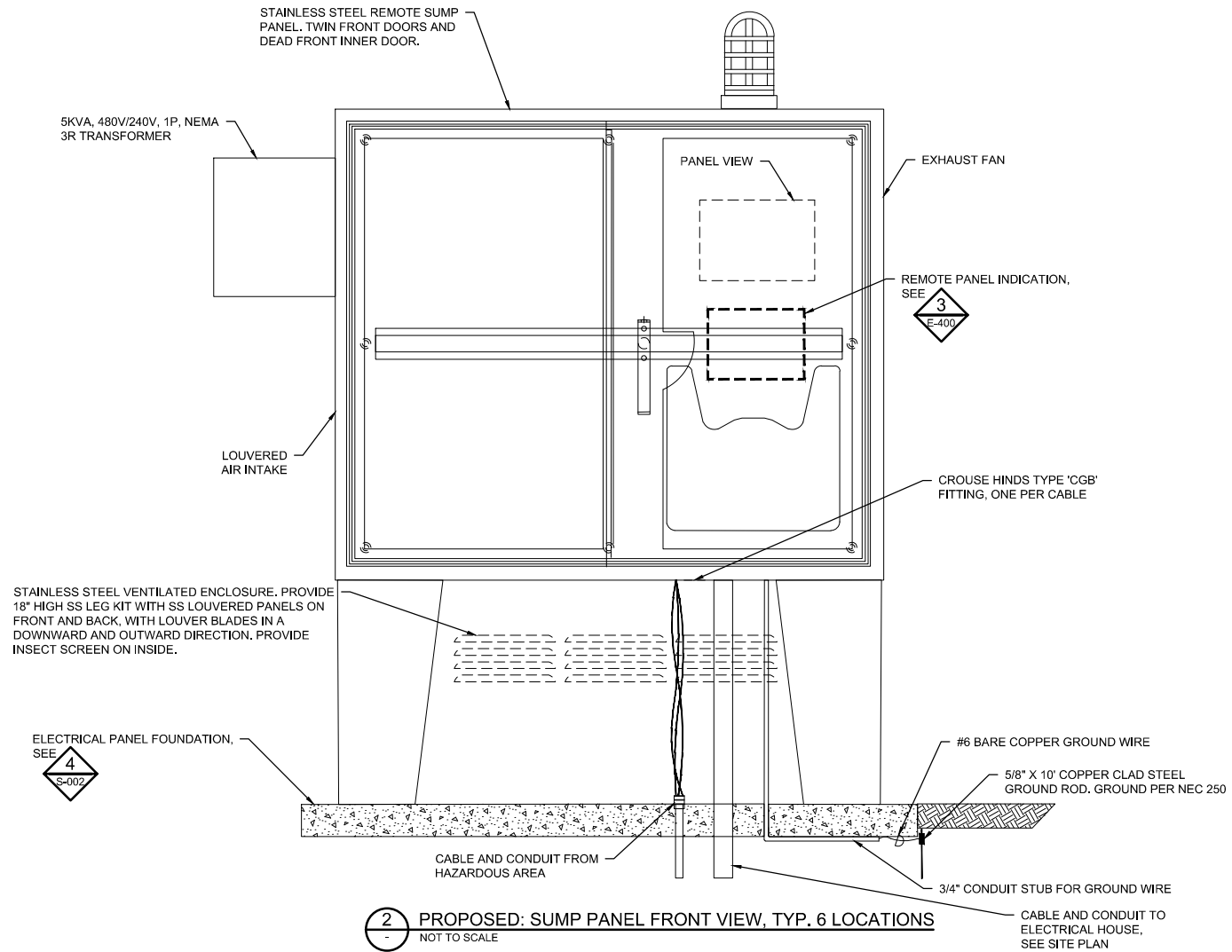
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1 PROPOSED: SUMP PANEL LAYOUT, TYP. 6 LOCATIONS
NOT TO SCALE

SERVICE #1 DISTRIBUTION PP-1										
MOUNTING SURFACE	LOCATION ELECTRICAL BUILDING	BUS				REMARKS				
		AMPS	VOLTS	PHASE	WIRE	1.	2.	3.		
		400	480V	3	3	1.	2.	3.		
CIRCUIT DESCRIPTION	BKR	CKT	ANTICIPATED LOAD IN VA	PH			ANTICIPATED LOAD IN VA	CKT	BKR	CIRCUIT DESCRIPTION
MAIN BREAKER	400A 3P	1	---	A	B	C	---	2	20A 3P	SUMP A
		3						4		
		5						6		
SUMP B	20A 3P	7	---	A	B	C	---	8	20A 3P	SUMP C
		9						10		
		11						12		
SUMP D	20A 3P	13	---	A	B	C	---	14	20A 3P	SUMP E
		15						16		
		17						18		
SUMP F	20A 3P	19	---	A	B	C	---	20	50A 2P	LP-1 TRANSFORMER
		21						22		
		23						24		
FLARE SYSTEM	200A 3P	25	---	A	B	C	---	26	50A 2P	TRANSFER STATION SANITARY SEWER HEAT TRACE
		27						28		
		29						30		
TRANSFER STATION WATER FEED HEAT TRACE	50A 2P	31	---	A	B	C	---	32	XA 3P	-
		33						34		
		35						36		
-	XA 3P	37	---	A	B	C	---	38	XA 3P	-
		39						40		
		41						42		

NOTES:
1. USE #12 FOR NEUTRAL AND GROUND CONDUCTORS UNLESS OTHERWISE INDICATED.

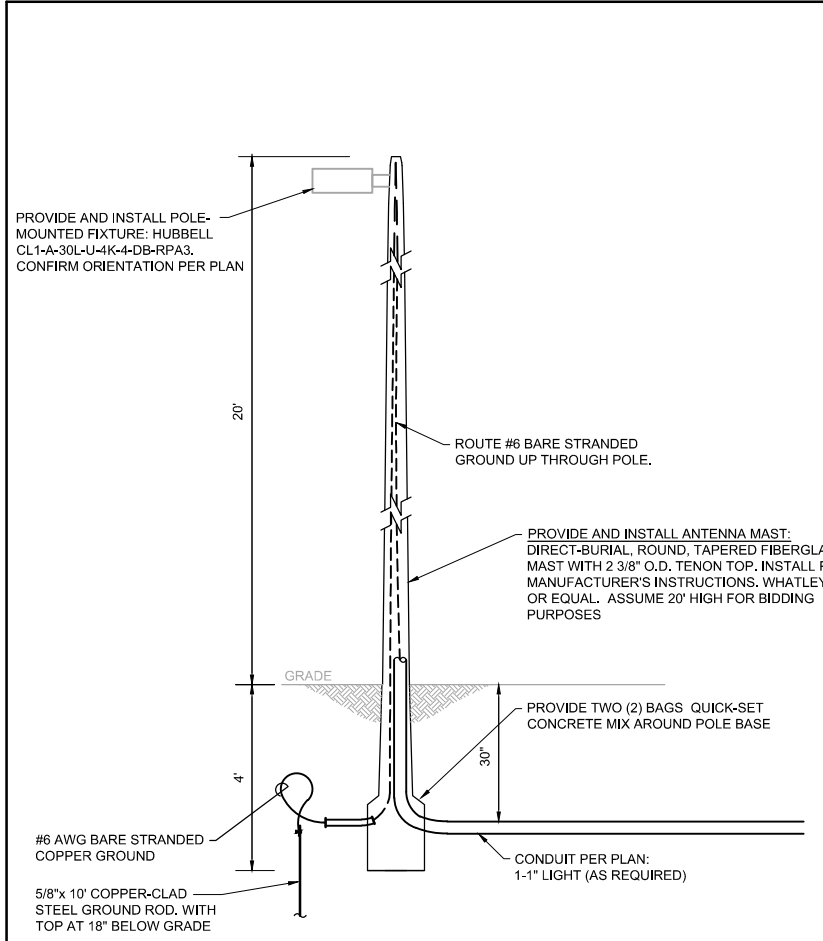


2 PROPOSED: SUMP PANEL FRONT VIEW, TYP. 6 LOCATIONS
NOT TO SCALE

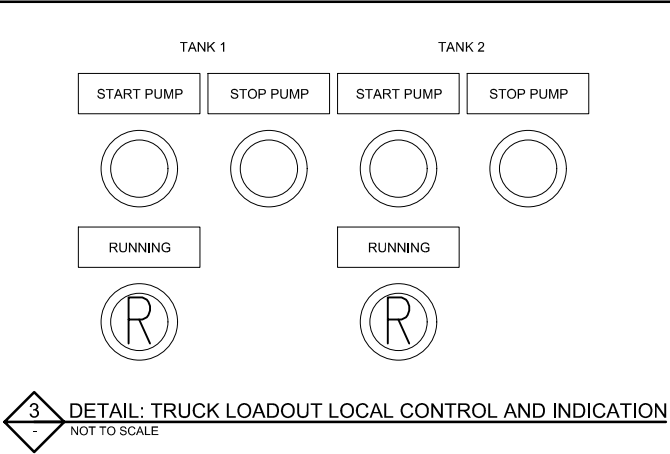
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06/30/2022

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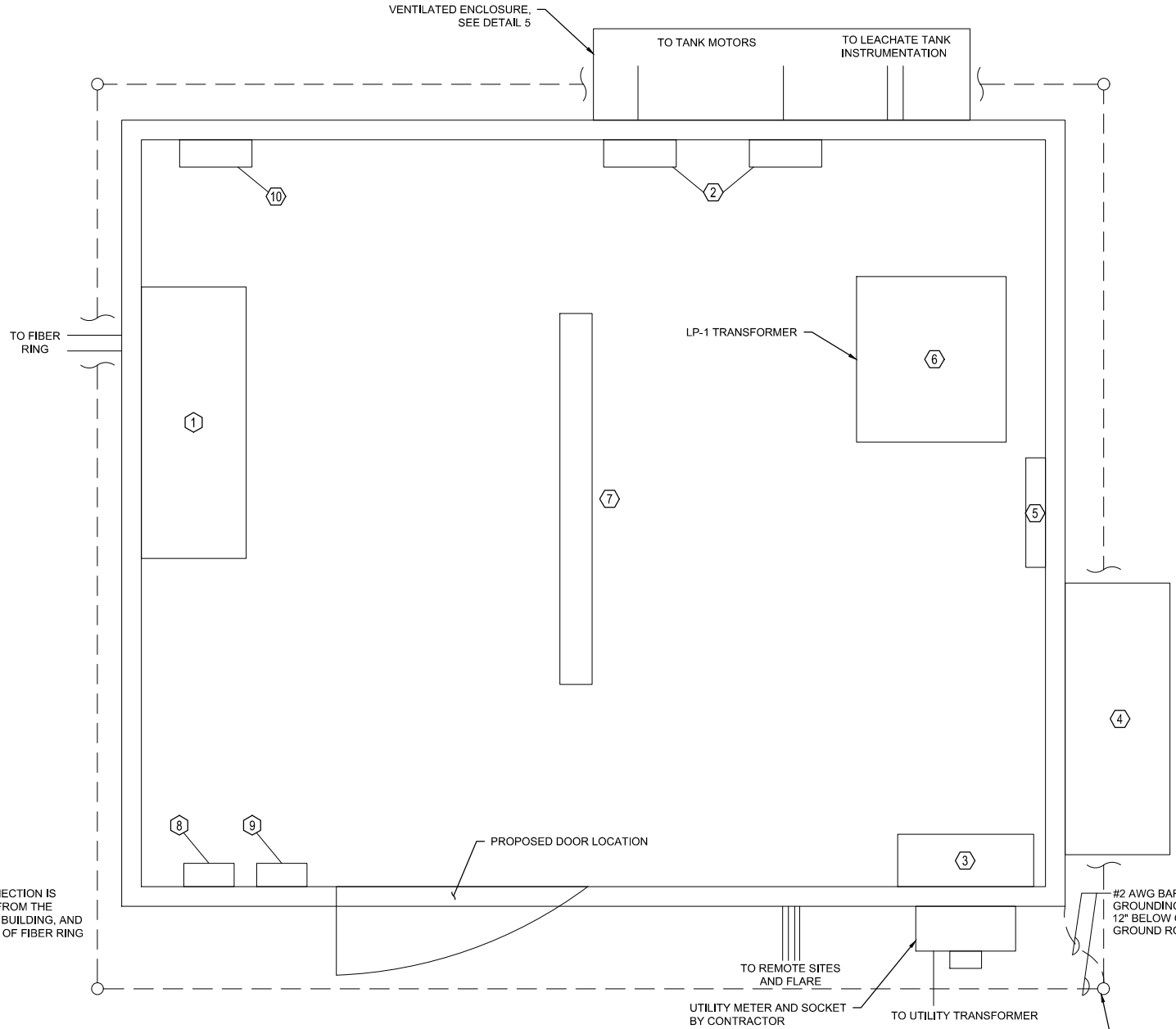
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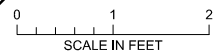
1 DETAIL: LIGHT AND POLE, TYP.
NOT TO SCALE



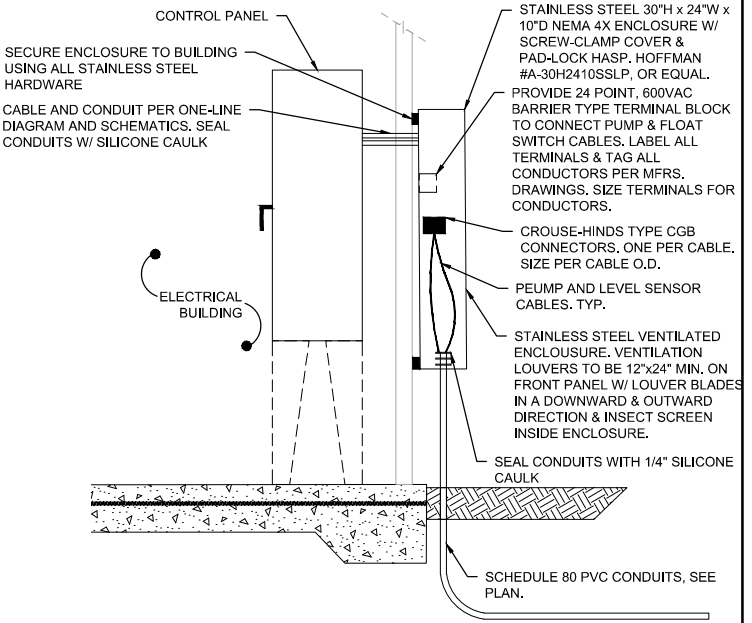
3 DETAIL: TRUCK LOADOUT LOCAL CONTROL AND INDICATION
NOT TO SCALE



4 DETAIL: ELECTRICAL BUILDING PLAN VIEW LAYOUT
NOT TO SCALE

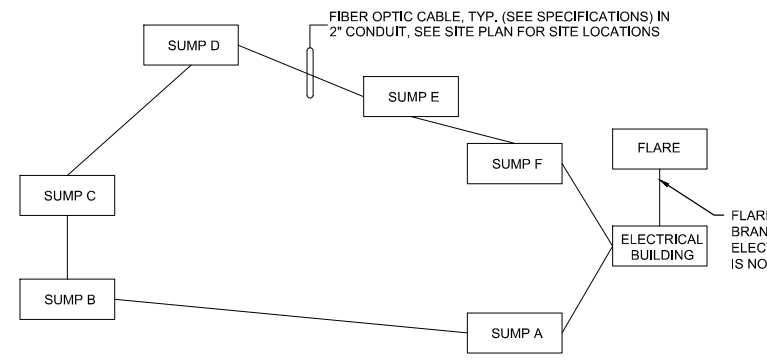


ITEM	QTY	MATERIAL LIST DESCRIPTION
1	1	CONTROL ENCLOSURE BY SYSTEMS INTEGRATOR
2	2	COMBINATION MOTOR STARTERS
3	1	200A, 480V, 3P DISTRIBUTION PANEL, PP-1, 42 CKT
4	1	1 TON HVAC UNIT, BARD #W12AB-A05EX8XXX
5	1	100A, 240V, 1P, LIGHTING PANEL, LP-1, 24 CKT
6	1	15KVA, DRY-TYPE TRANSFORMER, 480V/240V
7	1	LIGHT-FIXTURE, CEILING MOUNTED; COLUMBIA LCL8-35ML-EU-ELL14 OR APPROVED EQUAL
8	1	20A LIGHT SWITCH
9	1	20A GFCI RECEPTACLE
10	1	WALL MOUNTED THERMOSTAT, 60 DEGREE HEATING, 80 DEGREE COOLING SETPOINTS



5 DETAIL: ELECTRICAL BUILDING VENTED SKIRTS
NOT TO SCALE

- NOTES:
- SEE ONE LINE DIAGRAM AND SPECIFICATIONS FOR MORE INFORMATION.
 - INSTALL GROUND RING WITH 2 GROUND RODS AND #2 CABLE AROUND EXTERIOR OF ELECTRICAL BUILDING.
 - INSTALL COPPER GROUND BAR AROUND ENTIRE INTERIOR OF BUILDING WITHIN 6" OF FLOOR. BOND TO GROUND RING.
 - ALL CONDUIT SHOULD BE CAST IN PLACE WITH NO PENETRATIONS THROUGH THE SIDE OF THE BUILDING, EXCEPT FOR CABLES FROM HAZARDOUS LOCATIONS ROUTED THROUGH THE LOUVERED NEMA 4 PANEL.
 - MOUNT ALL ELECTRICAL PANELS AT LEAST 10 FEET FROM SUMPS AND TANKS TO BE OUTSIDE CLASSIFIED AREA.
 - FIELD CONFIRM LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, CABLES, CONDUITS, ETC. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REPAIR SUCH ITEMS AT NO COST IF DAMAGED BY CONTRACTOR.
 - PROVIDE TEMPORARY SUPPORT FOR EXISTING FACILITIES THAT WILL BE EXPOSED DUE TO GENERAL, PROCESS, AND STRUCTURAL CONSTRUCTION.
 - FIELD CONFIRM AND COORDINATE CONDUIT ROUTING.
 - SEAL ALL CONDUITS TO EXTERIOR USING DUCTSEAL OR 1/2" THICKNESS SILICONE CAULK.
 - COORDINATE ALL ELECTRIC UTILITY SERVICES WITH THE SERVING ELECTRIC UTILITY, XCEL ENERGY.
 - CIRCUITRY BETWEEN COMPONENTS IS NOT ALL SHOWN ON PLANS. SEE SCHEMATIC SHEETS FOR ADDITIONAL REQUIREMENTS.
 - POWER CABLES SHALL BE RUN IN SEPARATE CONDUITS AND RACEWAYS FROM CONTROL AND INSTRUMENTATION CABLING.



2 DETAIL: NETWORK DIAGRAM - FIBER RING
NOT TO SCALE

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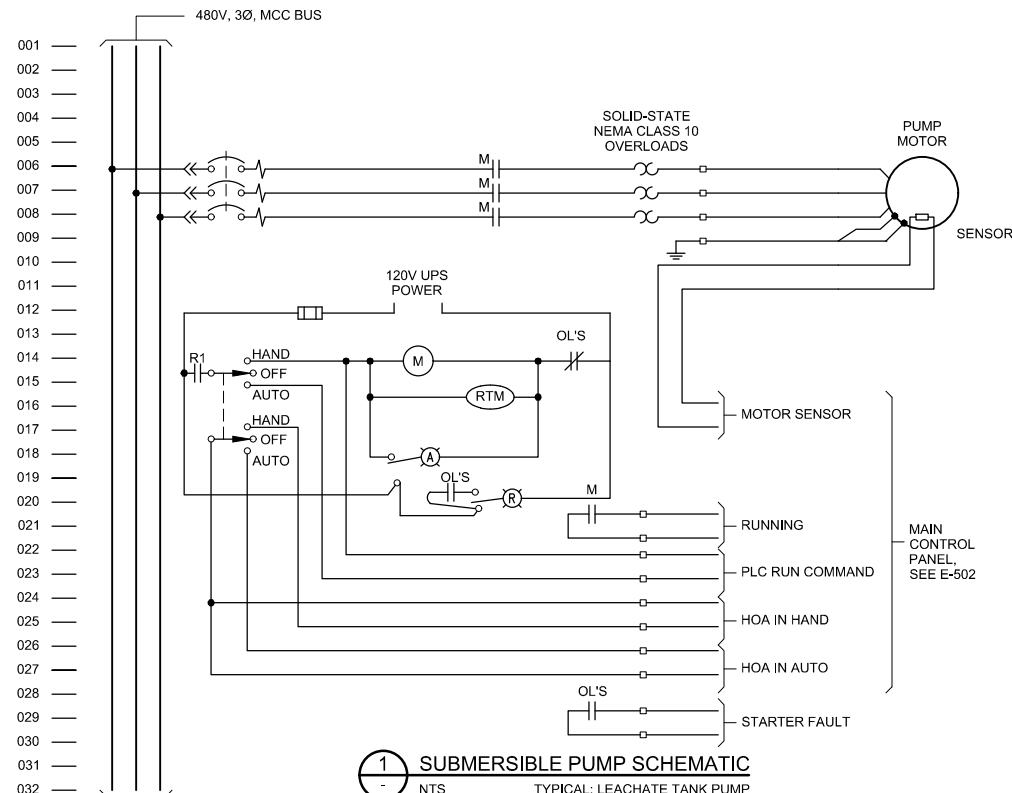
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Checked	MEZ
Designed	MDK
Approved	MEZ

MINNESOTA POLLUTION CONTROL AGENCY

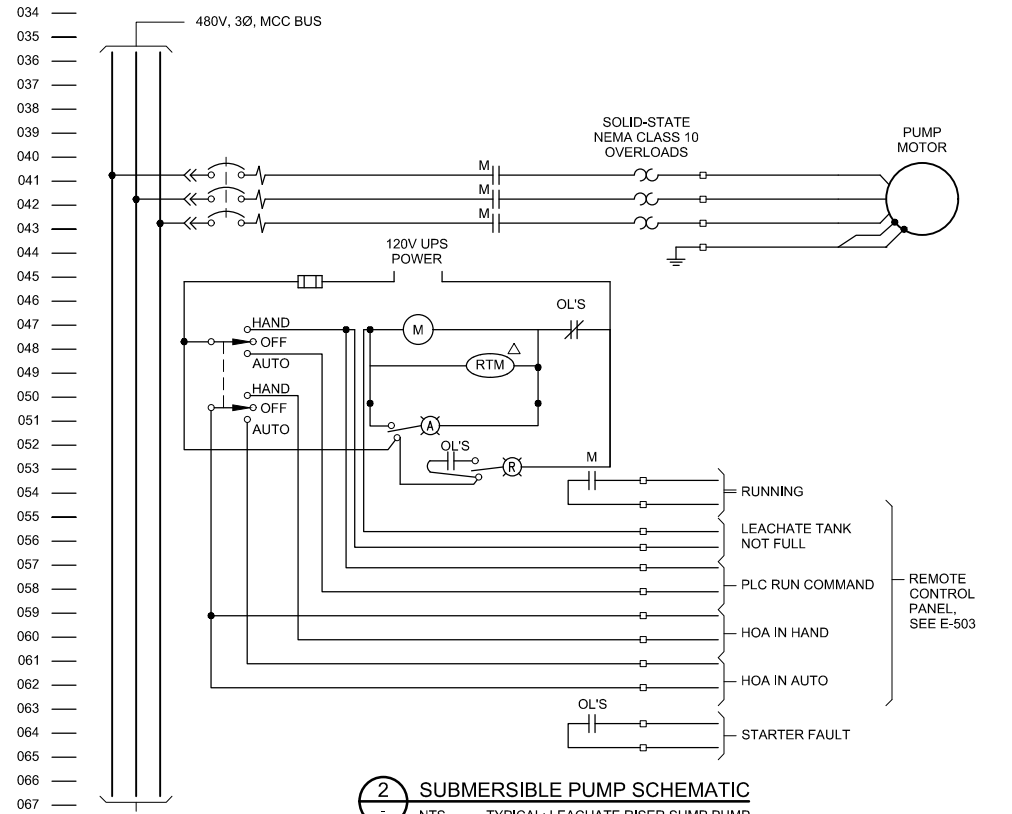
FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA
 ELECTRICAL DETAILS
 1 OF 2

BARR PROJECT No.	23/19-1372.00
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DWG. No.	E-500
REV. No.	B

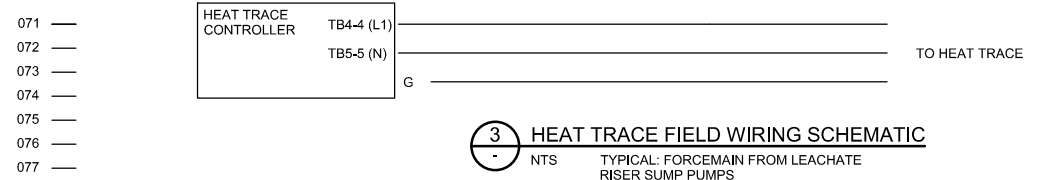
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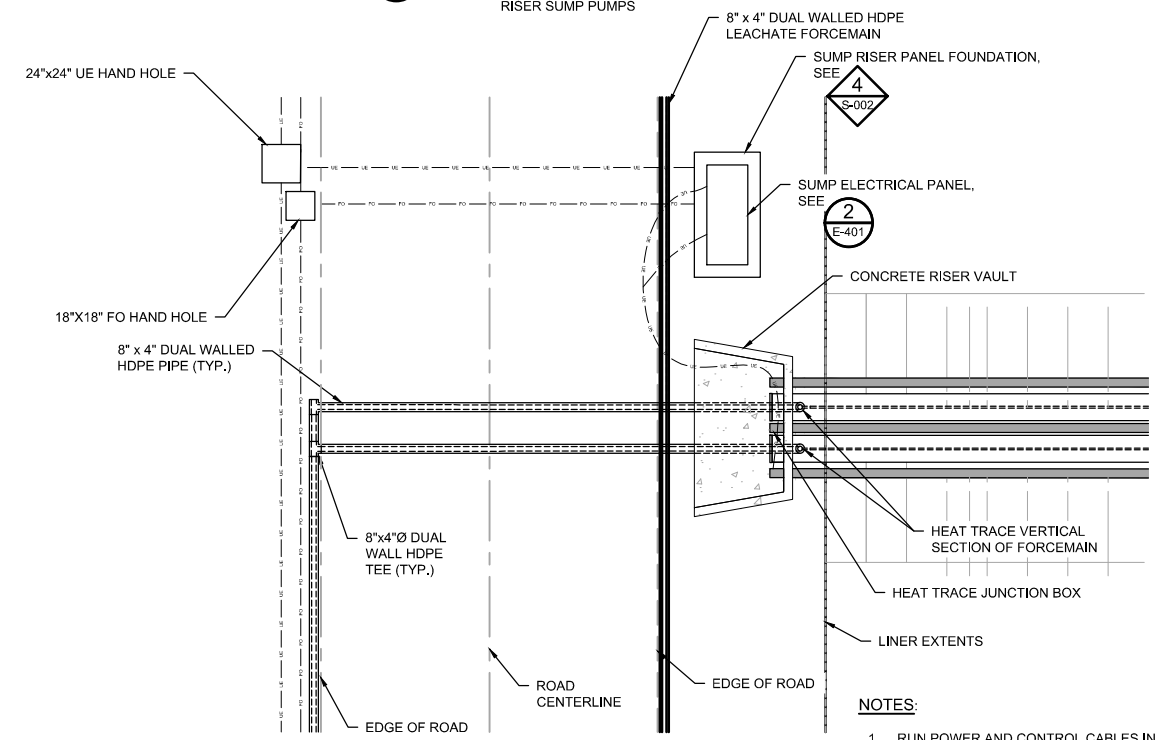
1 SUBMERSIBLE PUMP SCHEMATIC
NTS TYPICAL: LEACHATE TANK PUMP



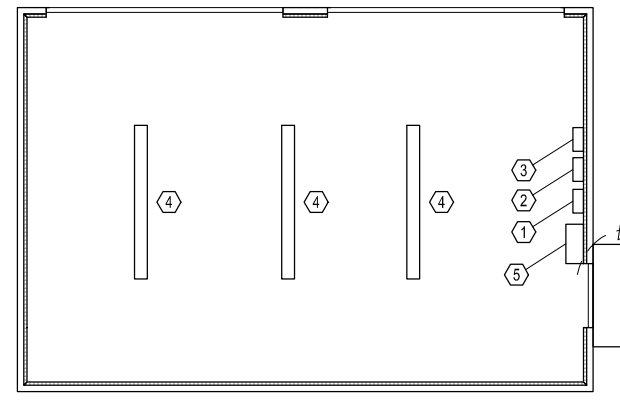
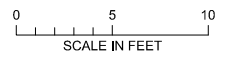
2 SUBMERSIBLE PUMP SCHEMATIC
NTS TYPICAL: LEACHATE RISER SUMP PUMP



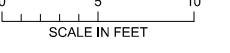
3 HEAT TRACE FIELD WIRING SCHEMATIC
NTS TYPICAL: FORCEMAIN FROM LEACHATE RISER SUMP PUMPS



4 PLAN: SUMP PANEL



5 DETAIL: STORAGE BUILDING PLAN VIEW LAYOUT



NOTES:

1. RUN POWER AND CONTROL CABLES IN SEPARATE CONDUITS.
2. MOUNT HEAT TRACE JUNCTION BOX TO THE CONCRETE RISER WALL BETWEEN THE RISERS TO TRANSITION FROM POWER CABLING TO HEAT TRACE.
3. HEAT TRACE TOP 10' OF FORCEMAIN FROM THE SUMP PUMP.
4. INSTALL HEAT TRACE IN 1" FLEXIBLE TUBING BETWEEN THE 4" AND 8" HDPE PIPES FOR EASY MAINTENANCE.
5. USE CLASS 1 DIVISION 1 RATED 5W/FT SELF REGULATING HEAT TRACE (RAYCHEM 5HBTV1-CT OR EQUIVALENT).
6. RUN HEAT TRACE AND TUBING DOWN ONE SIDE OF THE 4" PIPE AND BACK UP THE OTHER SIDE TO DOUBLE TRACE PIPING. CONNECT TUBING TO 4" PIPE USING ALUMINUM TAPE.
7. INSULATE 8" PIPE WITH 1" OF CELLULAR GLASS OVER ENTIRE AREA BEING HEAT TRACED.
8. ENSURE THAT PULL BOXES AND CONDUIT ARE OUTSIDE OF ROADWAY.

ITEM	QTY	MATERIAL LIST DESCRIPTION
①	1	20A LIGHT SWITCH
②	1	20A GFCI RECEPTACLE
③	1	GARAGE DOOR OPENER, COORDINATE ALL WIRING W/SUPPLIER
④	3	LIGHT-FIXTURE, CEILING MOUNTED: COLUMBIA LCL8-35ML-EU-ELL14 OR APPROVED EQUAL
⑤	1	30A HEAVY DUTY DISCONNECT
⑥	1	3/4" x 10' GROUND ROD

NOTES:

1. FORCEMAIN MUST BE HEAT TRACED AND INSULATED WITH 1" OF FIBERGLASS INSULATION ANY TIME IT IS WITHIN 4' OF THE GROUND SURFACE OR CONCRETE RISER FACE TO PREVENT FREEZING.
2. AMBIENT THERMOSTAT SHOULD BE PLACED OUTSIDE OF THE ELECTRICAL PANEL AND ADJUSTED FOR FREEZE PREVENTION.
3. USE 5 WT/FT, 120V HEAT TRACE CABLE, APPROPRIATE THERMOSTAT, AND END CAP KIT.

CADD USER: Zach A. Nelson FILE: M:\DESIGN\23191372\05\2319137205_LINE_E-501.DWG PLOT SCALE: 1:2 PLOT DATE: 06/30/2022 9:29 AM

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DATE	DATE	LICENSE #	1	2	3	

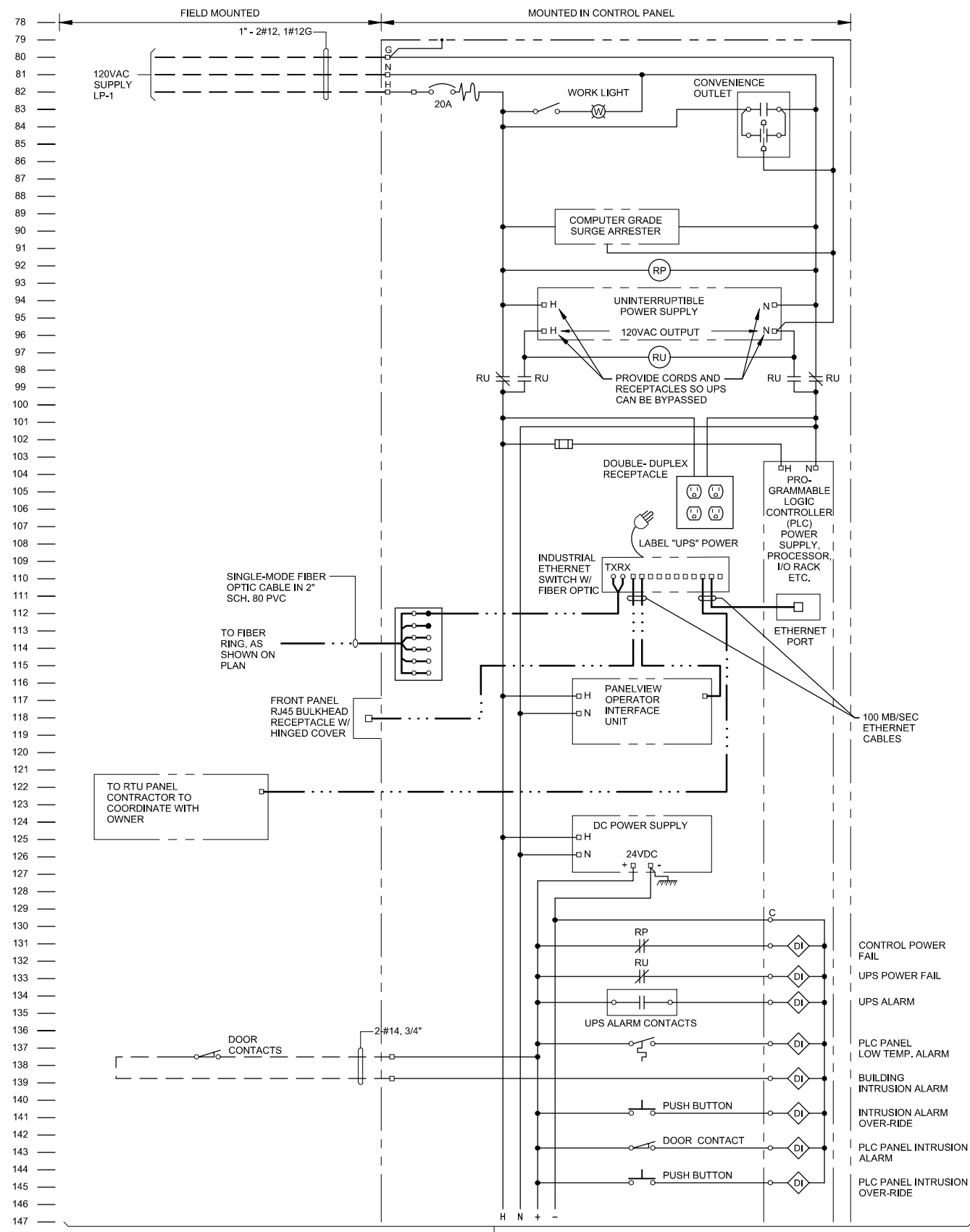
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Minneapolis, Minnesota
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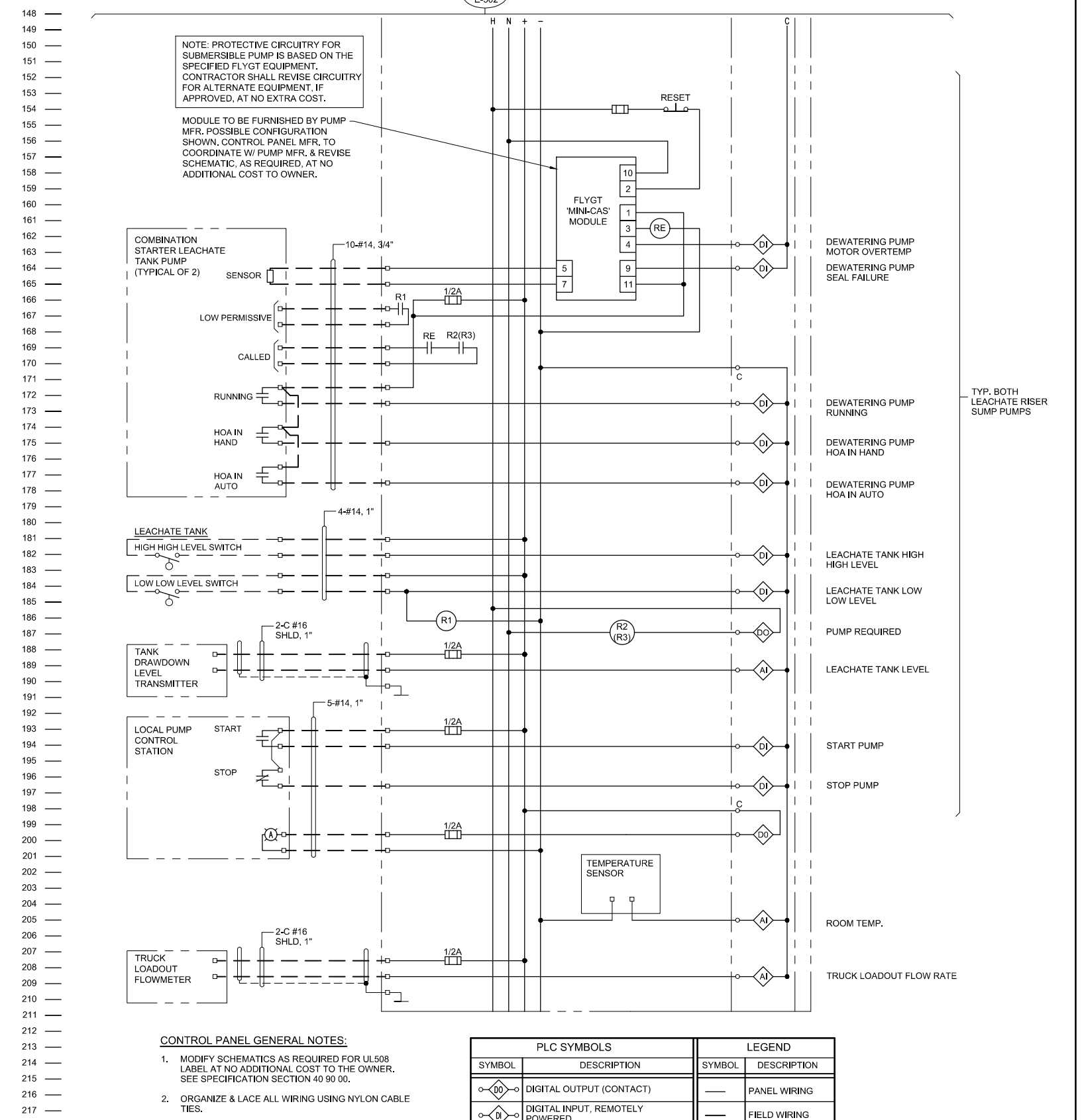
MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA
ELECTRICAL DETAILS
2 OF 2

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BARR PROJECT No.
23/19-1372.00
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DWG. No.
E-501
REV. No.
B



1 MAIN CONTROL PANEL ELECTRICAL SCHEMATIC
NTS



- CONTROL PANEL GENERAL NOTES:**
1. MODIFY SCHEMATICS AS REQUIRED FOR UL508 LABEL AT NO ADDITIONAL COST TO THE OWNER. SEE SPECIFICATION SECTION 40 90 00.
 2. ORGANIZE & LACE ALL WIRING USING NYLON CABLE TIES.

PLC SYMBOLS		LEGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DIGITAL OUTPUT (CONTACT)		PANEL WIRING
	DIGITAL INPUT, REMOTELY POWERED		FIELD WIRING
	ANALOG OUTPUT, 4-20mADC (SELF-POWERED)		CONDUCTOR SHIELD
	ANALOG INPUT, 4-20mADC (UNLESS NOTED OTHERWISE)		EXISTING CIRCUITRY

REFER ALSO TO SYSTEM INTEGRATOR DOCUMENTATION FOR MORE INFORMATION

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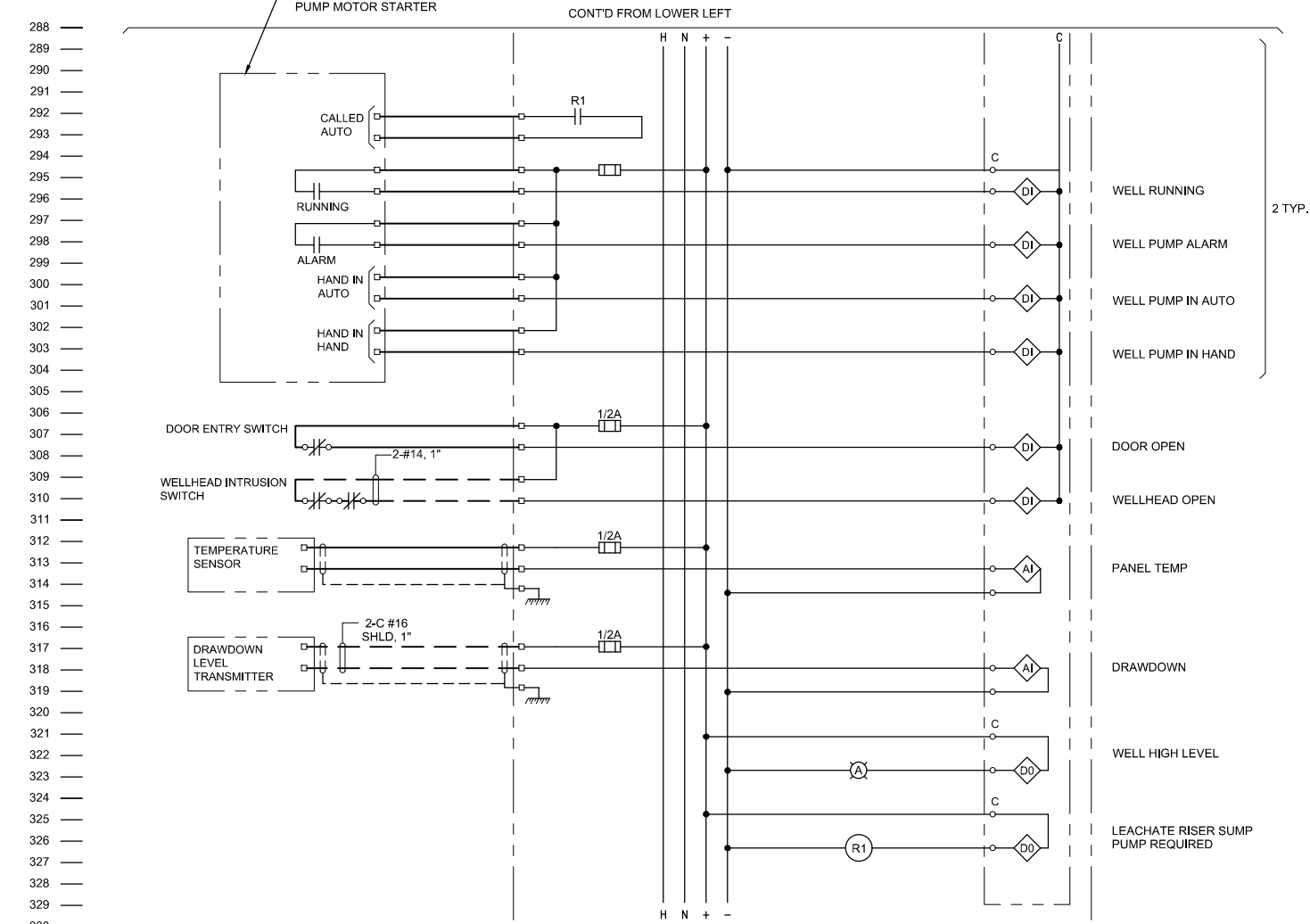
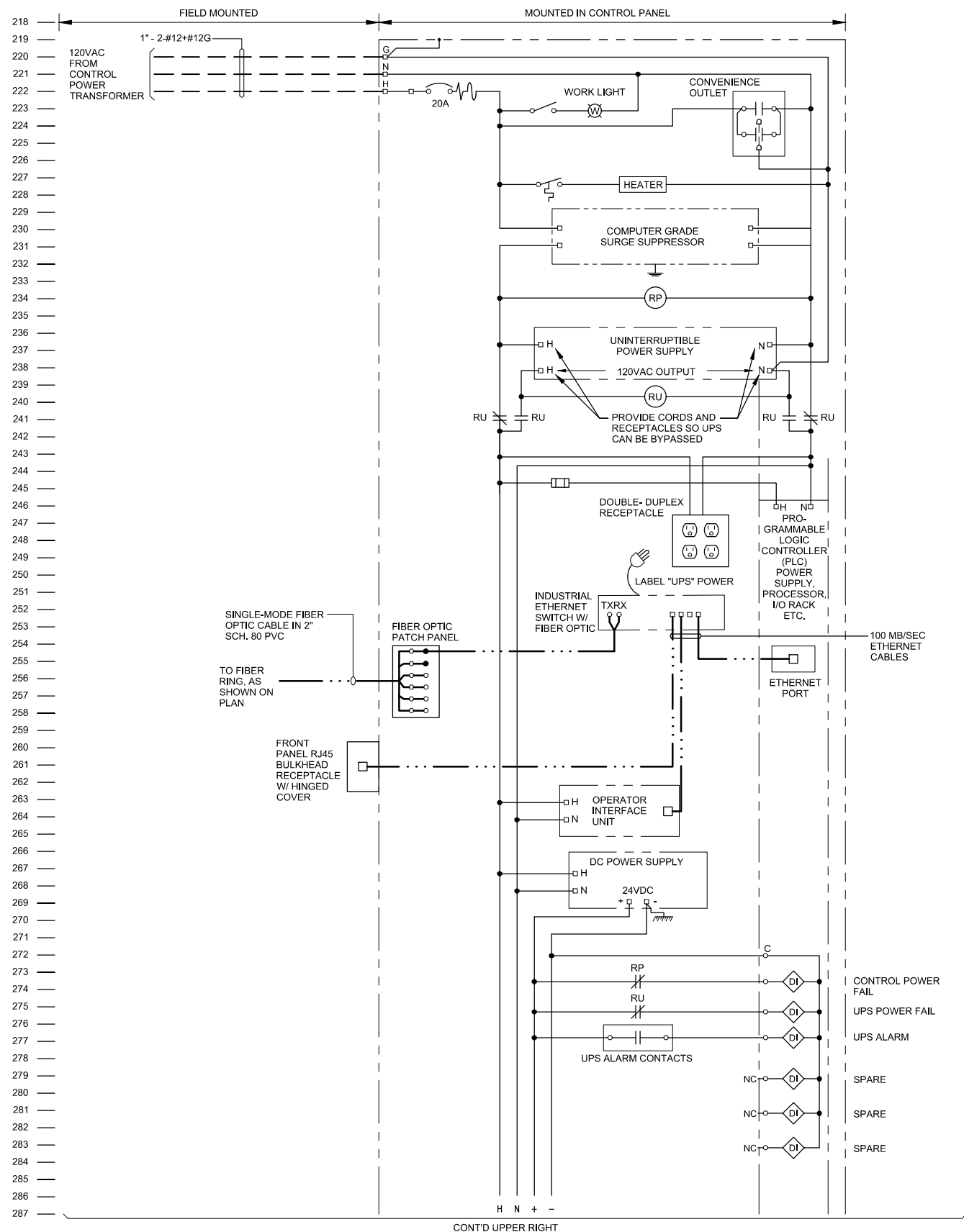
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FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

ELECTRICAL WIRING DETAILS

BARR PROJECT No.	
23/19-1372.00	
CLIENT PROJECT No.	
DWG. No.	REV. No.
E-502	B



CONTROL PANEL GENERAL NOTES:

- MODIFY SCHEMATICS AS REQUIRED FOR UL508 LABEL AT NO ADDITIONAL COST TO THE OWNER. SEE SPECIFICATION SECTION 40 90 00.
- ORGANIZE & LACE ALL WIRING USING NYLON CABLE TIES.

LEGEND	
SYMBOL	DESCRIPTION
—	EXISTING EQUIP. & CIRCUITRY
- - -	NEW EQUIP. & CIRCUITRY UNDER THIS CONTRACT

1 SUMP ELECTRICAL SCHEMATIC TYP. 6 LOCATIONS
NTS

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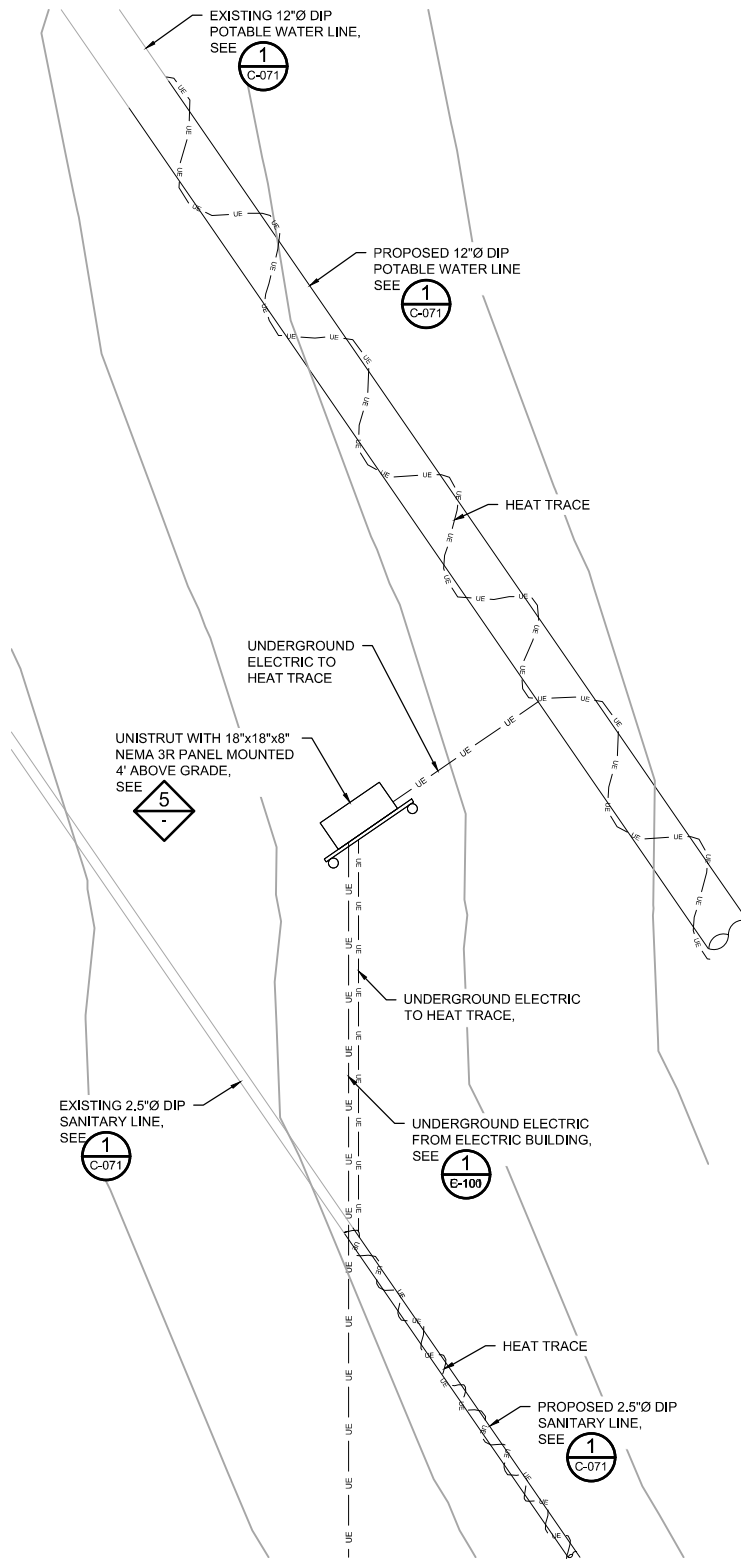


FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
BURNSVILLE, MINNESOTA

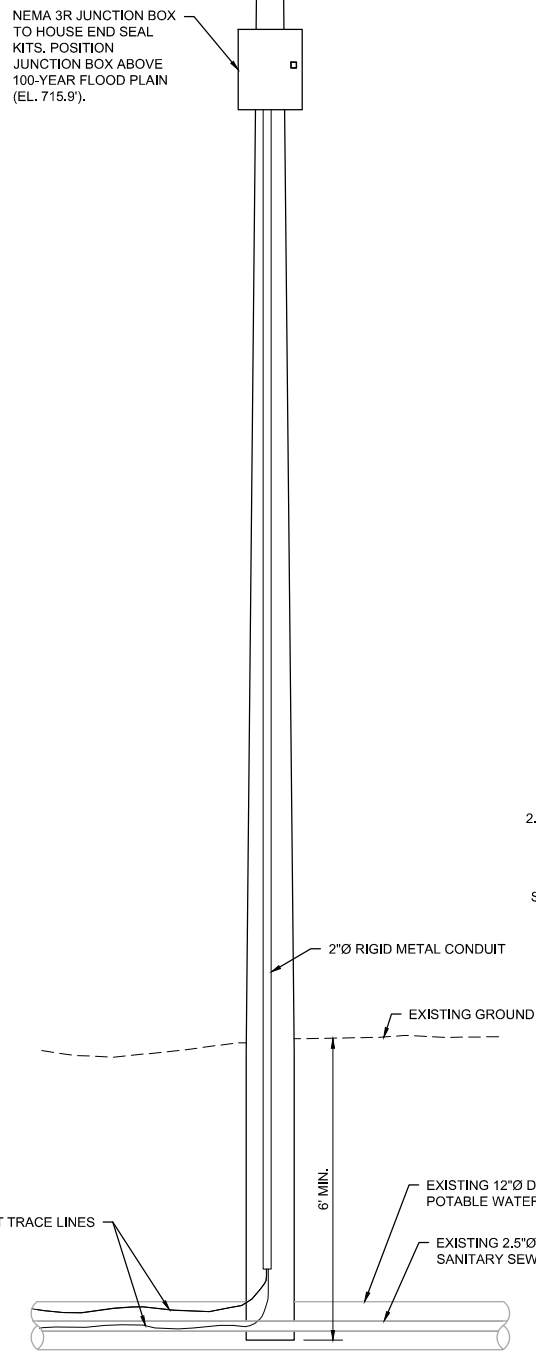
ELECTRICAL SCHEMATICS

BARR PROJECT No. 23/19-1372.00	
CLIENT PROJECT No.	
DWG. No. E-503	REV. No. B

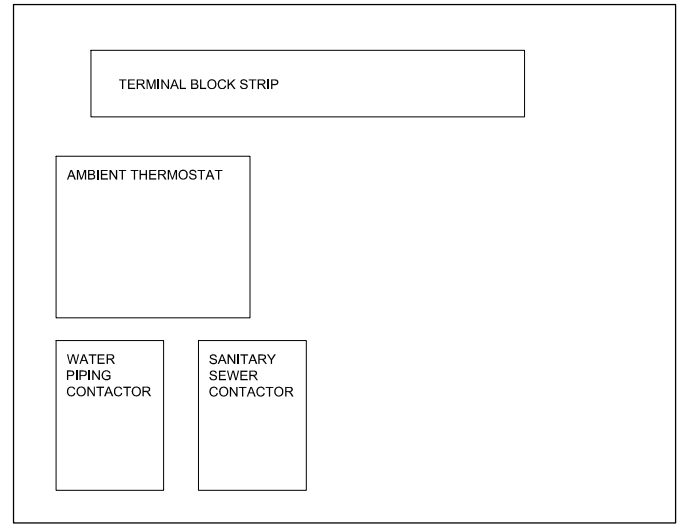
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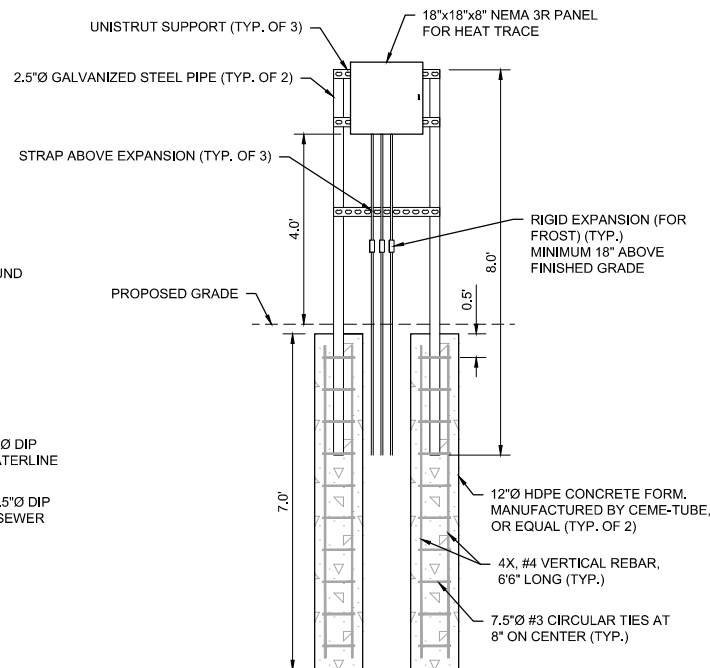
1 PLAN: HEAT TRACE PANEL
 SCALE IN FEET



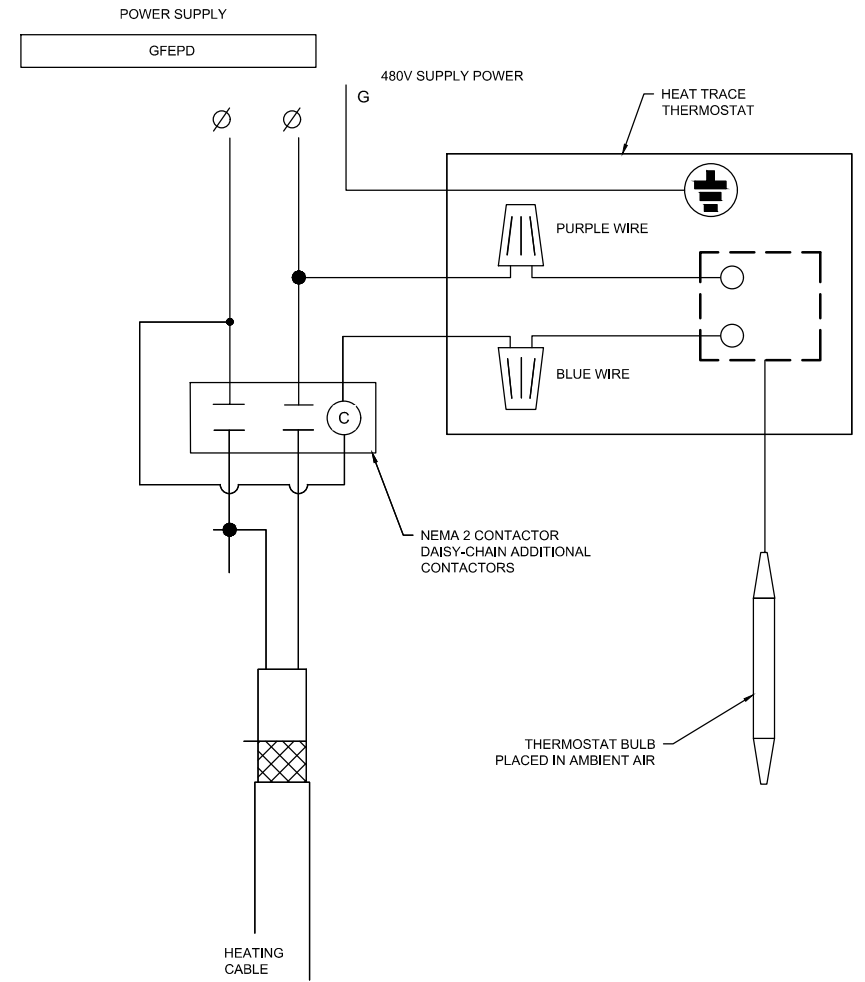
2 SECTION: HEAT TRACE TERMINATION POLE
 SCALE IN FEET



3 DETAIL: HEAT TRACE PANEL LAYOUT
 NOT TO SCALE



5 DETAIL: H-FRAME STRUCTURE AND HEAT TRACE PANEL
 NOT TO SCALE



4 DETAIL: AMBIENT SENSING HEAT TRACE WIRING SCHEMATIC
 NOT TO SCALE

NOTES:
 1. SEE DIVISION 03 SPECIFICATIONS FOR CONCRETE AND REINFORCEMENT

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Designed	BARR
Approved	-

MINNESOTA POLLUTION CONTROL AGENCY

FREWAY LANDFILL AND DUMP CLOSURE: DIG AND LINE
 BURNSVILLE, MINNESOTA
 HEAT TRACE SECTIONS AND DETAILS

BARR PROJECT No. 23/19-1372.00	REV. No. B
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