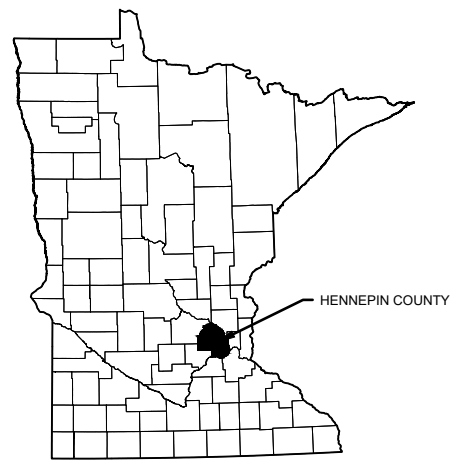


MAIN STEM LAGOON DREDGING PROJECT

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION

GOLDEN VALLEY, MINNESOTA



MINNESOTA COUNTY MAP



PROJECT LOCATION MAP

INDEX OF SHEETS

- G-01 PROJECT LOCATION AND SHEET INDEX
- G-02 SITE ACCESS, REMOVALS, AND EROSION CONTROL PLAN
- G-03 SEDIMENT AND EROSION CONTROL DETAILS
- G-04 TRAFFIC CONTROL PLAN

- C-01 SITE PLAN DRAWING REFERENCE
- C-02 SITE PLAN - LAGOON F
- C-03 SITE PLAN - LAGOON E
- C-04 SITE PLAN - LAGOON D
- C-05 LAGOON CROSS SECTIONS
- C-06 RESTORATION PLAN

CONTACTS:
 PATRICK E. BROCKAMP, PE
 WATER RESOURCES ENGINEER
 BARR ENGINEERING CO.
 PHONE: 952-842-3593
 FAX: 952-832-2601
 EMAIL: PBROCKAMP@BARR.COM



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

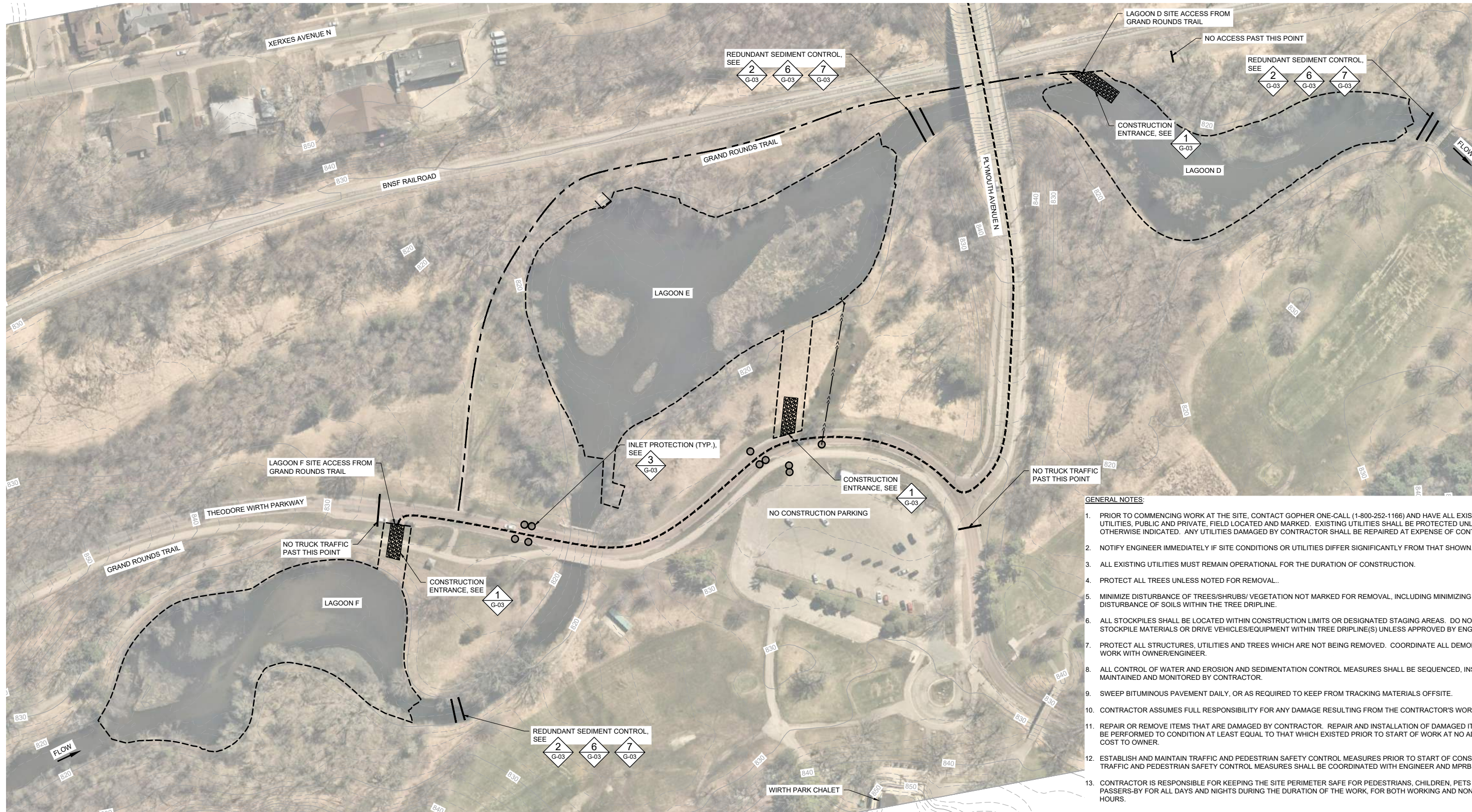
DATUM
 HORIZONTAL: HENNEPIN COUNTY COORDINATES (FT) - NAD83, 2011
 VERTICAL: NAVD88

 DATE OF BATHYMETRIC SURVEY:
 SEPTEMBER 2019

*50% DRAFT
FOR REVIEW*

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: <u>PATRICK E. BROCKAMP</u> SIGNATURE: _____ DATE: _____ LICENSE # <u>54931</u>		REVIEW BID CONSTRUCTION RECORD		1/23/21 12/09/21		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: 12/09/2021 Drawn: ADB2 Checked: PEB Designed: BARR Approved: PEB		BASSETT CREEK WATERSHED MANAGEMENT COMMISSION GOLDEN VALLEY, MINNESOTA		MAIN STEM LAGOON DREDGING PROJECT GOLDEN VALLEY, MINNESOTA		BARR PROJECT No. 23/27-1860.00	
		RELEASED TO/FOR DATE RELEASED		A B C 0 1 2 3			PROJECT LOCATION AND SHEET INDEX				CLIENT PROJECT No.		DWG. No. G-01	REV. No. B

CADD USER: Patrick E. Brockamp; FILE: M:\DESIGN\23271860_00\23271860_G-01.DWG PLOT SCALE: 1:2,500 PLOT DATE: 12/28/2021 11:45 AM



GENERAL NOTES:

1. PRIOR TO COMMENCING WORK AT THE SITE, CONTACT GOPHER ONE-CALL (1-800-252-1166) AND HAVE ALL EXISTING UTILITIES, PUBLIC AND PRIVATE, FIELD LOCATED AND MARKED. EXISTING UTILITIES SHALL BE PROTECTED UNLESS OTHERWISE INDICATED. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED AT EXPENSE OF CONTRACTOR.
2. NOTIFY ENGINEER IMMEDIATELY IF SITE CONDITIONS OR UTILITIES DIFFER SIGNIFICANTLY FROM THAT SHOWN.
3. ALL EXISTING UTILITIES MUST REMAIN OPERATIONAL FOR THE DURATION OF CONSTRUCTION.
4. PROTECT ALL TREES UNLESS NOTED FOR REMOVAL.
5. MINIMIZE DISTURBANCE OF TREES/SHRUBS/ VEGETATION NOT MARKED FOR REMOVAL, INCLUDING MINIMIZING DISTURBANCE OF SOILS WITHIN THE TREE DRIPLINE.
6. ALL STOCKPILES SHALL BE LOCATED WITHIN CONSTRUCTION LIMITS OR DESIGNATED STAGING AREAS. DO NOT STOCKPILE MATERIALS OR DRIVE VEHICLES/EQUIPMENT WITHIN TREE DRIPLINE(S) UNLESS APPROVED BY ENGINEER.
7. PROTECT ALL STRUCTURES, UTILITIES AND TREES WHICH ARE NOT BEING REMOVED. COORDINATE ALL DEMOLITION WORK WITH OWNER/ENGINEER.
8. ALL CONTROL OF WATER AND EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE SEQUENCED, INSTALLED, MAINTAINED AND MONITORED BY CONTRACTOR.
9. SWEEP BITUMINOUS PAVEMENT DAILY, OR AS REQUIRED TO KEEP FROM TRACKING MATERIALS OFFSITE.
10. CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY DAMAGE RESULTING FROM THE CONTRACTOR'S WORK.
11. REPAIR OR REMOVE ITEMS THAT ARE DAMAGED BY CONTRACTOR. REPAIR AND INSTALLATION OF DAMAGED ITEMS WILL BE PERFORMED TO CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO START OF WORK AT NO ADDITIONAL COST TO OWNER.
12. ESTABLISH AND MAINTAIN TRAFFIC AND PEDESTRIAN SAFETY CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. TRAFFIC AND PEDESTRIAN SAFETY CONTROL MEASURES SHALL BE COORDINATED WITH ENGINEER AND MPRB.
13. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE SITE PERIMETER SAFE FOR PEDESTRIANS, CHILDREN, PETS AND OTHER PASSERS-BY FOR ALL DAYS AND NIGHTS DURING THE DURATION OF THE WORK. FOR BOTH WORKING AND NON-WORKING HOURS.
14. PROVIDE A CONTINUOUS, ACCESSIBLE, AND SAFE PEDESTRIAN WALKWAY THAT MEETS ADA AND MN MUTCD STANDARDS IF WORKING IN A SIDEWALK AREA, AND TRAFFIC CONTROL PER MN MUTCD REQUIREMENTS FOR THE WORK IN THE PUBLIC RIGHT OF WAY AREA.
15. COORDINATE ALL WORK AND SITE ACCESS WITH ROADWAY WEIGHT RESTRICTION REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING TEMPORARY ACCESS PERMITS, IF REQUIRED.

1 PLAN: SITE ACCESS, REMOVALS, AND EROSION CONTROL PLAN



CADD USER: Patrick E. Brockamp; FILE: M:\DESIGN\23271860_G-02.DWG; PLOT SCALE: 1:3,849; PLOT DATE: 12/28/2021 11:45 AM

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PRINTED NAME	PATRICK E. BROCKAMP			
SIGNATURE				
DATE	LICENSE #	54931		

REVIEW	1/23/21	12/28/21				
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CONSTRUCTION RECORD						
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DATE RELEASED						

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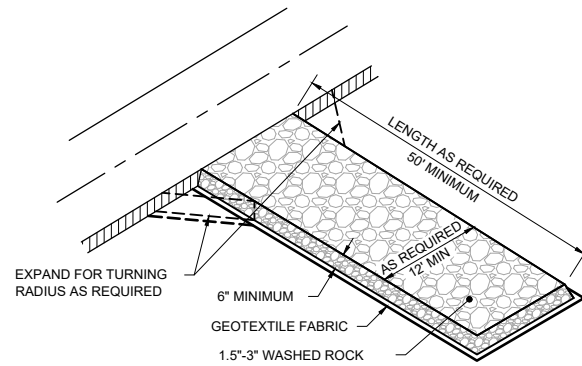
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Checked	PEB
Designed	BARR
Approved	PEB

**BASSETT CREEK WATERSHED
 MANAGEMENT COMMISSION**
 GOLDEN VALLEY, MINNESOTA

MAIN STEM LAGOON DREDGING PROJECT GOLDEN VALLEY, MINNESOTA	
SITE ACCESS, REMOVALS, AND EROSION CONTROL	

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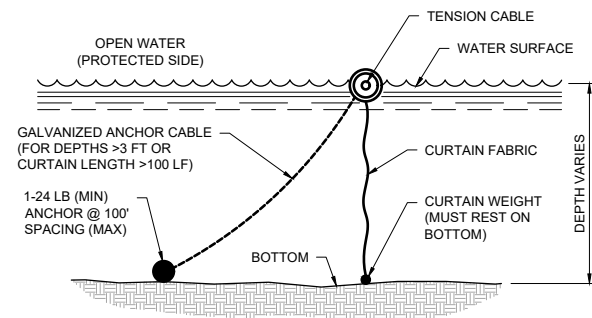
BARR PROJECT No. 23/27-1860.00	
CLIENT PROJECT No.	
DWG. No. G-02	REV. No. B



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.

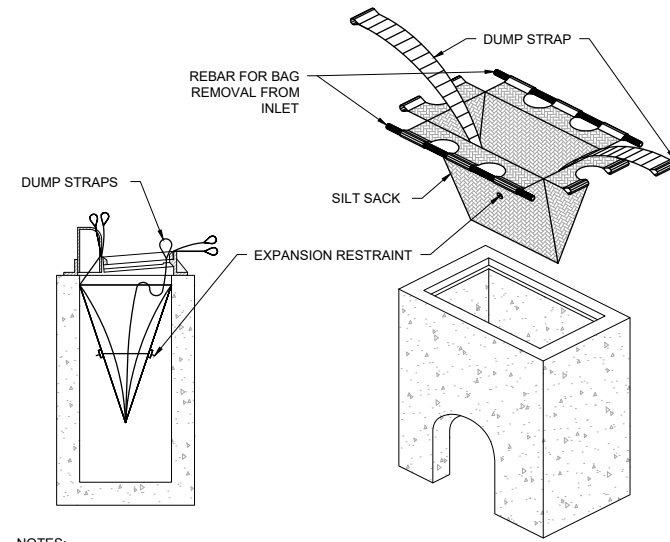
1 DETAIL: CONSTRUCTION ENTRANCE - ROCK
NOT TO SCALE



NOTES:

1. INSTALL SILT CURTAIN PRIOR TO ANY CONSTRUCTION ACTIVITIES IN AREAS DRAINING TO OPEN WATER OR WORK IN WATER.
2. ANCHOR TENSION CABLE AT SHORE AT BOTH END WITH STEEL POSTS OF DIAMETER AND LENGTH SUFFICIENT TO PREVENT BENDING AND PULL-OUT.
3. ELIMINATE ANCHOR AND CABLE FOR WATER DEPTHS LESS THAN 3'-0" OR DISTANCE BETWEEN SHORE ANCHORS FOR TENSION CABLE OF LESS THAN 100'
4. CURTAIN WEIGHT SHALL BE HEAVY ENOUGH TO HOLD CURTAIN VERTICAL IN CURRENT AND WAVES TYPICAL FOR THE SITE.
5. SILT CURTAIN MATERIALS SHALL CONFORM TO MN/DOT SPECIFICATION 3887.
6. MAINTAIN SILT CURTAIN AND REPAIR OR REPLACE AS REQUIRED TO PREVENT DISCHARGE OF SEDIMENT TO PROTECTED WATER BODY.
7. REMOVE ANY ACCUMULATED SEDIMENT PRIOR TO REMOVAL OF SILT CURTAIN.
8. REMOVE SILT CURTAIN FOLLOWING SITE STABILIZATION OR AS DIRECTED BY ENGINEER.

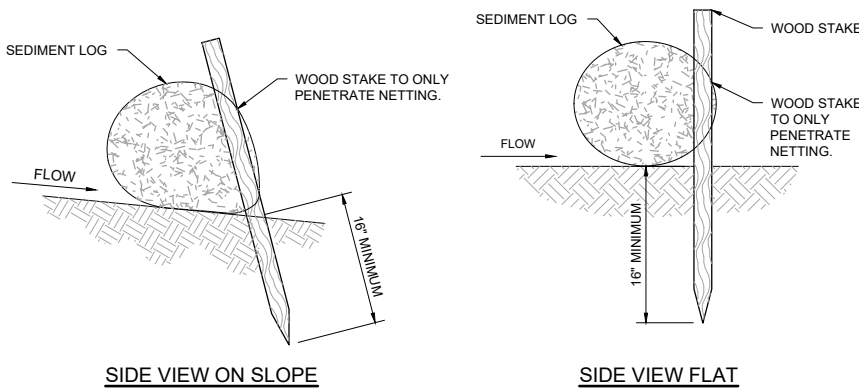
2 DETAIL: FLOTATION SILT CURTAIN
NOT TO SCALE



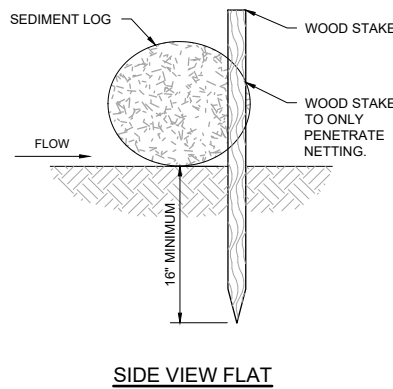
NOTES:

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. INLET PROTECTION SHALL BE THE APPROPRIATE SIZE AND TYPE FOR THE STRUCTURE BEING PROTECTED.

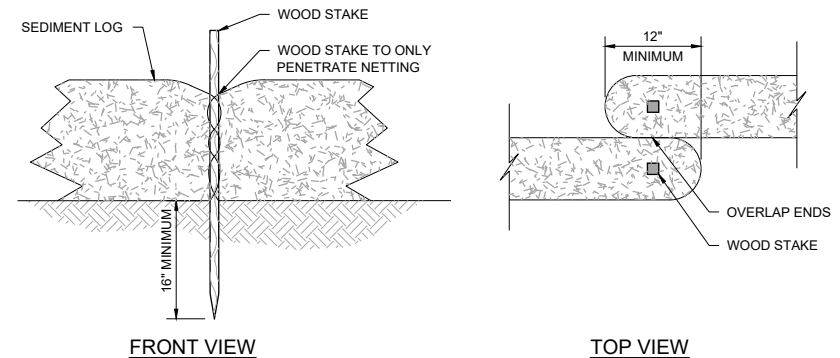
3 DETAIL: INLET PROTECTION - FILTER SACK
NOT TO SCALE



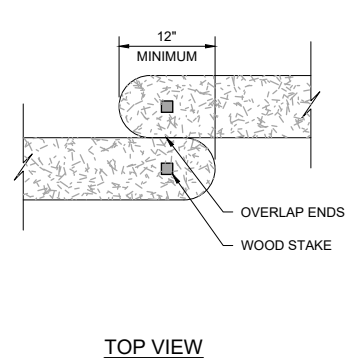
SIDE VIEW ON SLOPE



SIDE VIEW FLAT



FRONT VIEW

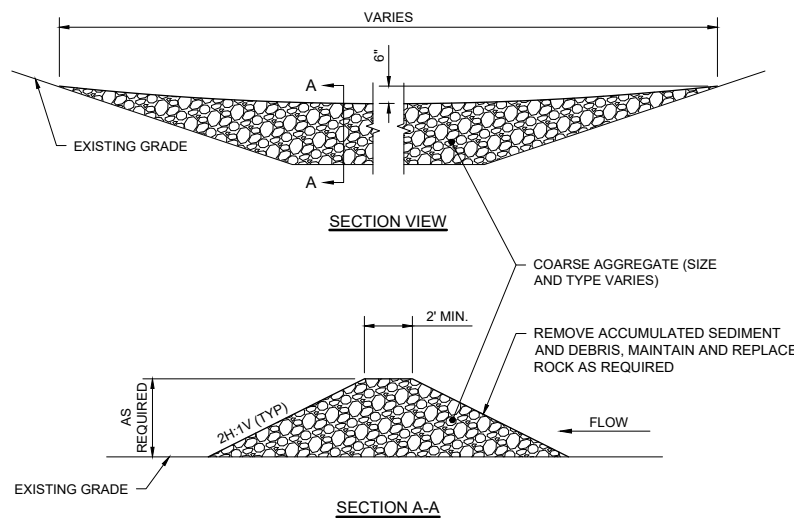


TOP VIEW

NOTES:

1. SEDIMENT LOG SHOULD BE INSTALLED ALONG CONTOURS (CONSTANT ELEVATION) AND NO GAPS SHALL BE PRESENT UNDER SEDIMENT LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
2. SEDIMENT LOG SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED OR REPLACED AS REQUIRED - ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN REACHING 1/2 OF LOG HEIGHT.

5 DETAIL: EROSION LOG - STAKING
NOT TO SCALE



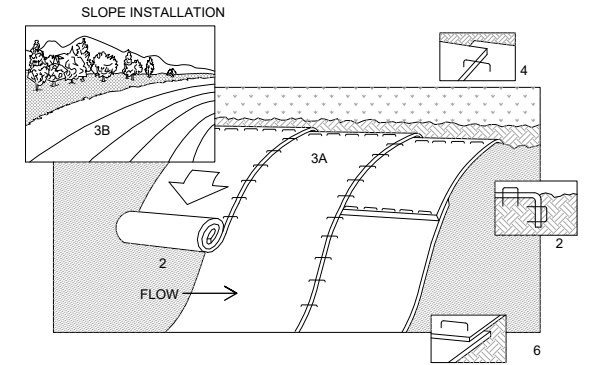
SECTION VIEW

SECTION A-A

NOTES:

1. AGGREGATE SIZE MAY VARY AND DEPENDING ON CHANNEL/POND SIZE, FLOW, SEDIMENT LOAD OR OTHER SITE CONDITIONS. AGGREGATE USED SHOULD BE FREE OF FINE SEDIMENT PRIOR TO INSTALLATION.
2. CLEAN OR REPLACE WHEN SEDIMENT BUILD UP REACHES 1/2 OF THE DIKE HEIGHT. ALTERNATIVELY A SECOND ROCK FILTER DIKE MAY BE INSTALLED DOWNSTREAM OF THE EXISTING DIKE AT A SUITABLE DISTANCE.
3. MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD. ROCK AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

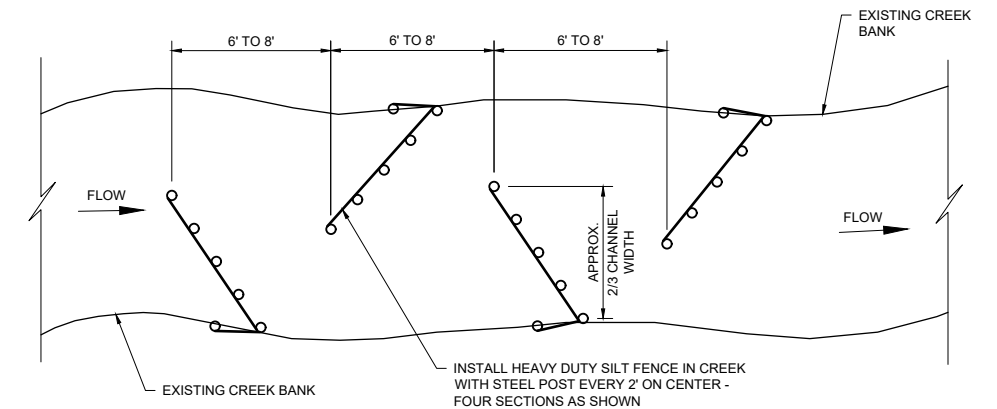
6 DETAIL: ROCK FILTER DIKE
NOT TO SCALE



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. 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 SPLICED 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.

4 DETAIL: EROSION CONTROL BLANKET - INSTALLATION
NOT TO SCALE



NOTES:

1. IN-STREAM SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER SILT FENCE. WHEN SEDIMENT BUILD UP REACHES 1/3 OF FENCE HEIGHT.
2. SILT FENCE AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION, OR WHEN SEDIMENT BUILD UP REACHES 1/3 OF FENCE HEIGHT.
3. ACCUMULATED SEDIMENT SHALL BE DISPOSED OF AT AN UPLAND LOCATION ABOVE THE ORDINARY HIGH WATER ELEVATION (OR DISPOSED OF OFF SITE). THE DISPOSAL LOCATION SHALL BE STABILIZED WITH VEGETATION AND EROSION CONTROL MEASURES AS DIRECTED BY ENGINEER.

7 DETAIL: SILT FENCE - IN STREAM
NOT TO SCALE

CADD USER: Patrick E. Brockamp; FILE: M:\DESIGN\23271860_00\23271860_C-03.DWG; PLOT SCALE: 1:2500; PLOT DATE: 12/09/2021 11:45 AM

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PRINTED NAME	PATRICK E. BROCKAMP			
SIGNATURE	[Signature]			
DATE	LICENSE #	54931		

REVIEW	1/23/21	12/09/21				
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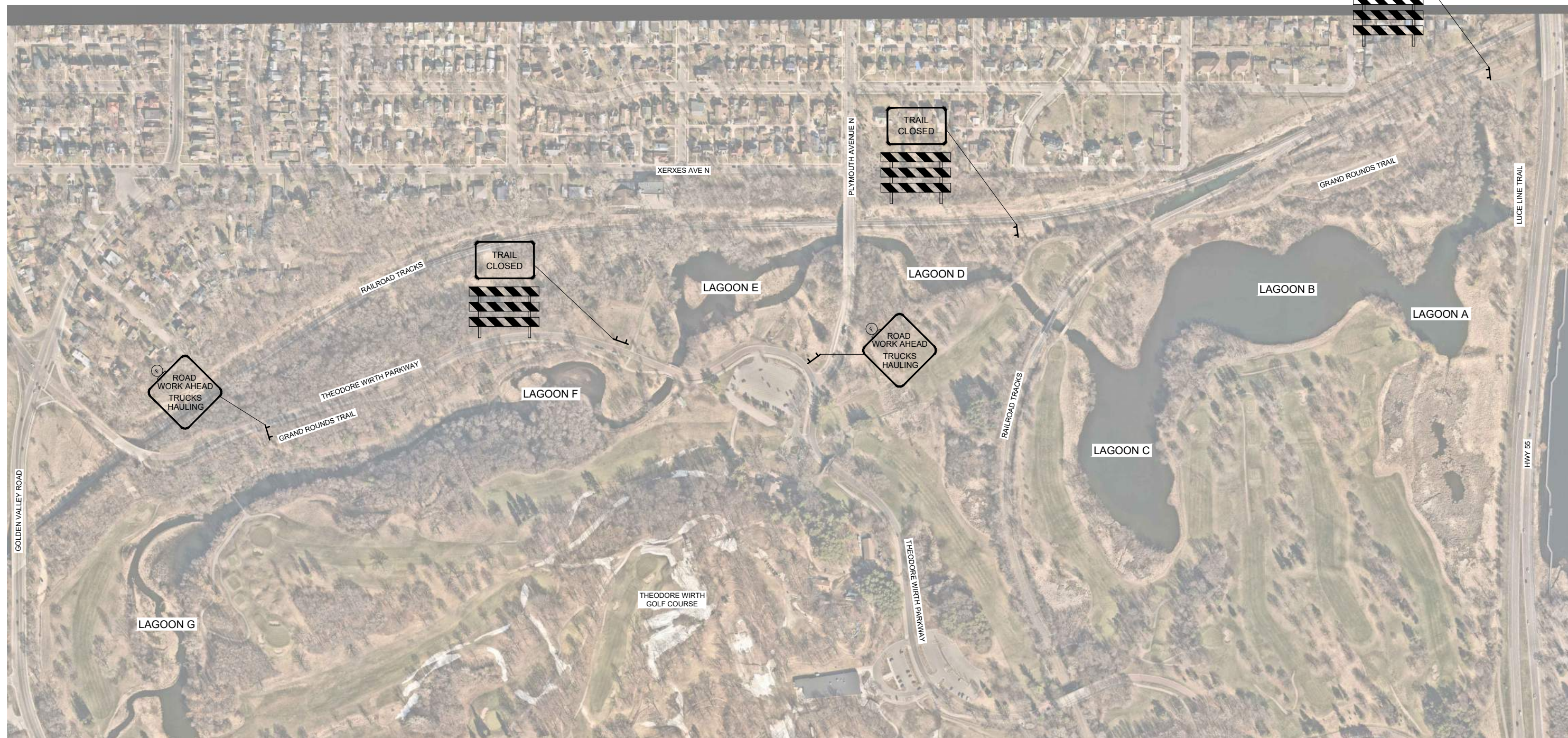
BASSETT CREEK WATERSHED
 MANAGEMENT COMMISSION

MAIN STEM LAGOON DREDGING PROJECT
 GOLDEN VALLEY, MINNESOTA

SEDIMENT AND EROSION CONTROL DETAILS

BARR PROJECT No. 23/27-1860.00	
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1 PLAN: TRAFFIC CONTROL PLAN



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**BASSETT CREEK WATERSHED
MANAGEMENT COMMISSION**
GOLDEN VALLEY, MINNESOTA

MAIN STEM LAGOON DREDGING PROJECT
GOLDEN VALLEY, MINNESOTA

TRAFFIC CONTROL PLAN

BARR PROJECT No.	23/27-1860.00
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DWG. No.	G-04
REV. No.	B



1 PLAN: SITE PLAN DRAWING REFERENCE



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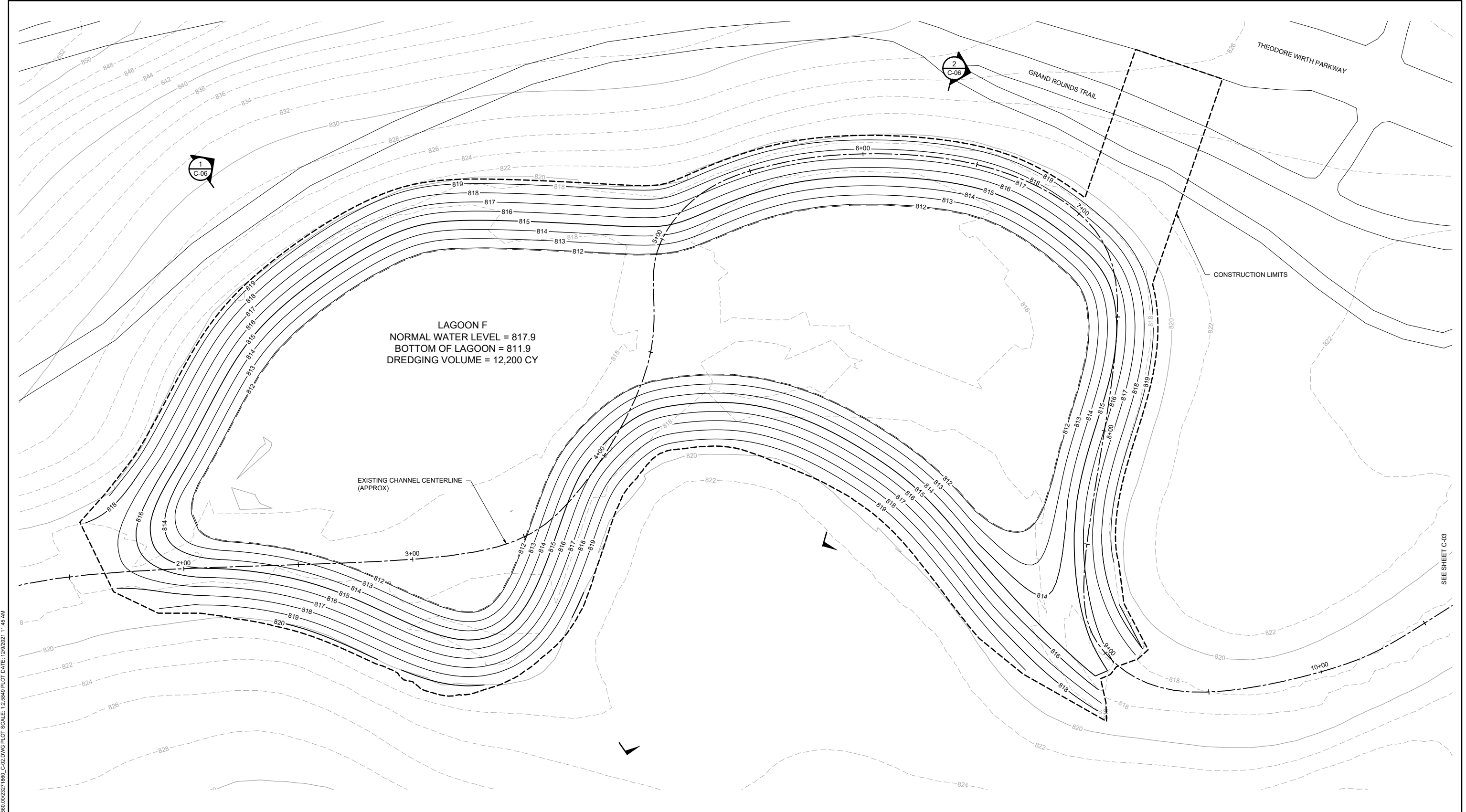
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MAIN STEM LAGOON DREDGING PROJECT
 GOLDEN VALLEY, MINNESOTA
 SITE PLAN DRAWING REFERENCE

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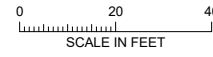
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1 PLAN: SITE PLAN - LAGOON F



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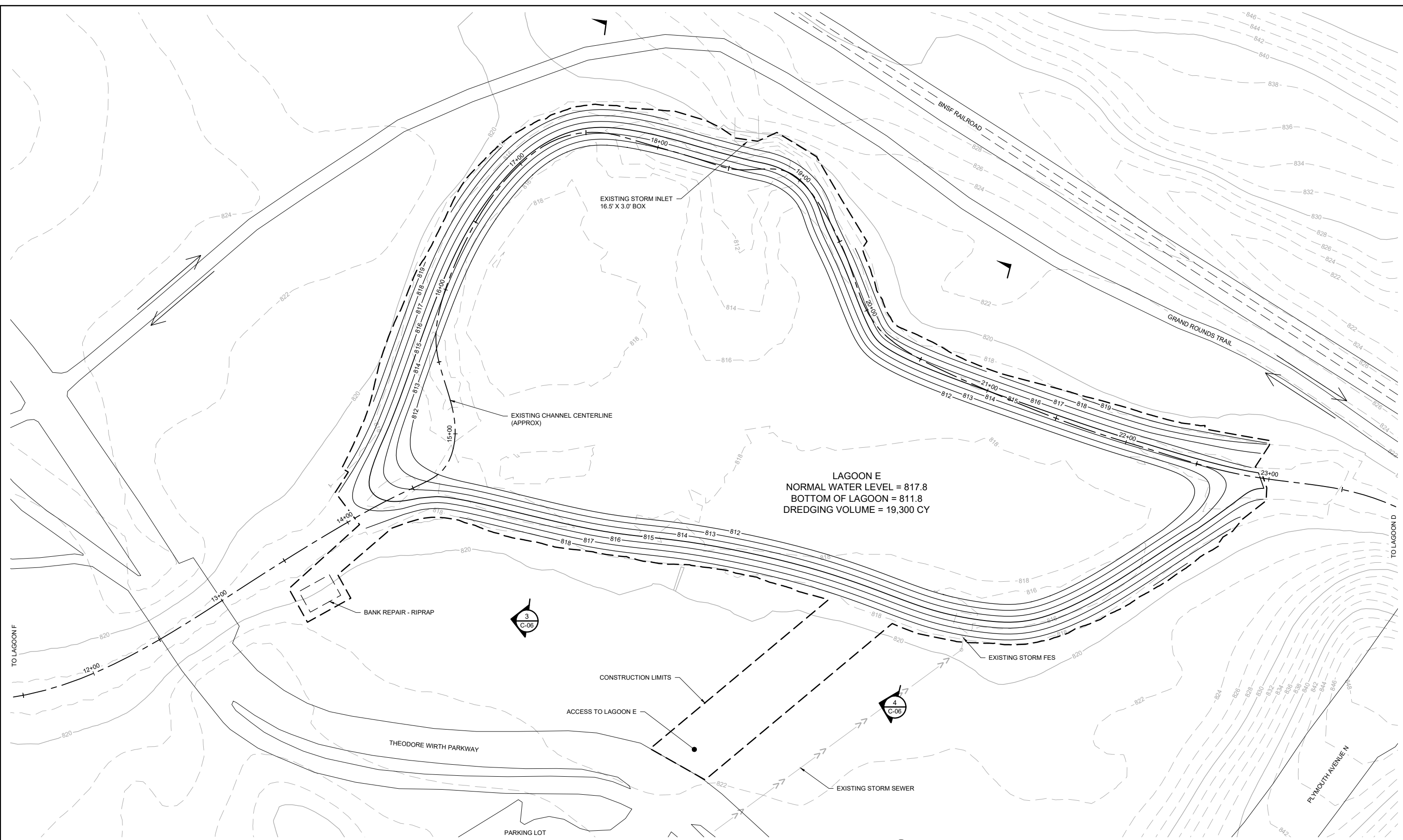
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MAIN STEM LAGOON DREDGING PROJECT
 GOLDEN VALLEY, MINNESOTA
 SITE PLAN - LAGOON F

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LAGOON E
 NORMAL WATER LEVEL = 817.8
 BOTTOM OF LAGOON = 811.8
 DREDGING VOLUME = 19,300 CY

1 PLAN: SITE PLAN - LAGOON E

0 30 60
 SCALE IN FEET

50% DRAFT
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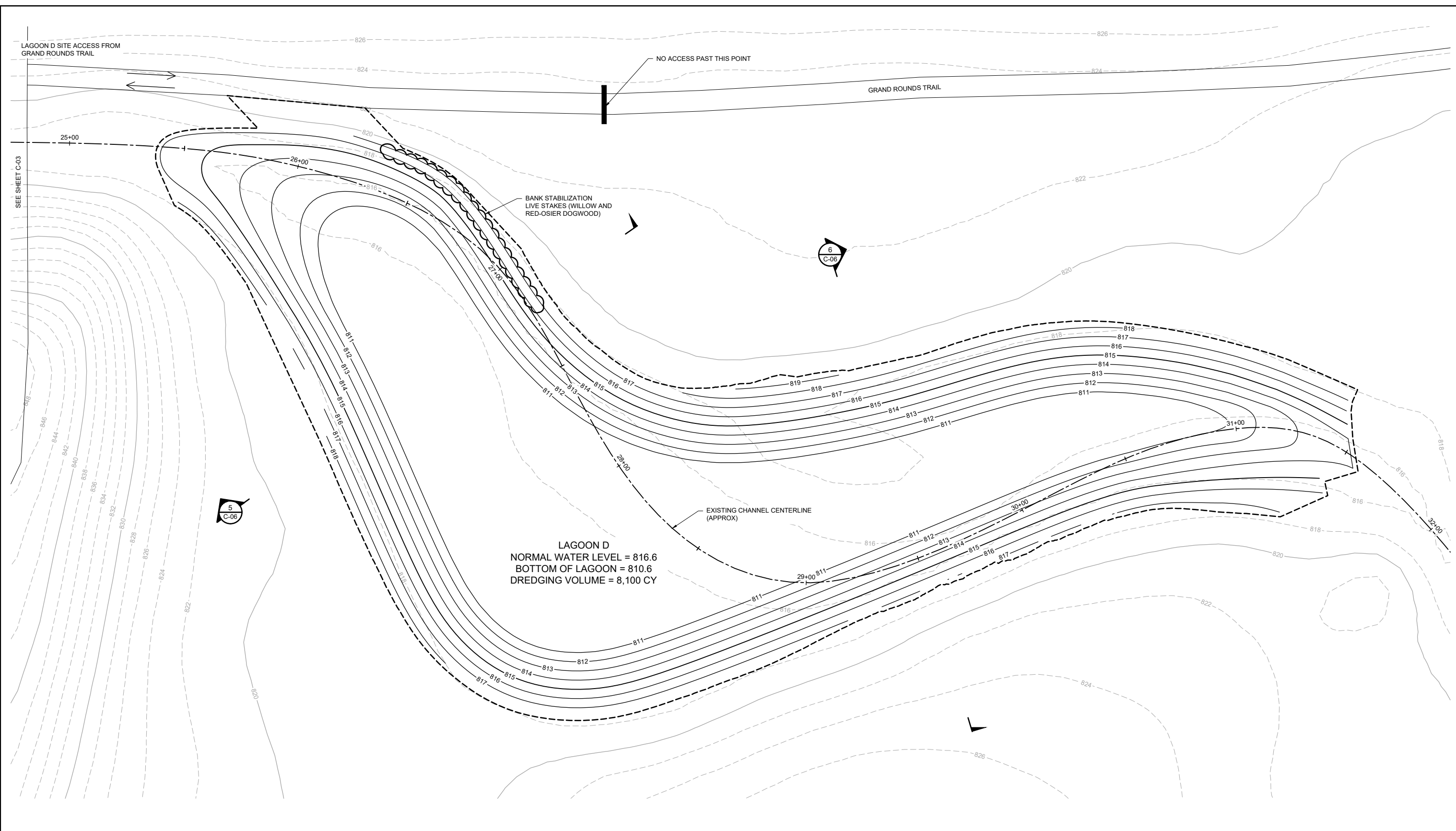
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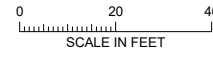
MAIN STEM LAGOON DREDGING PROJECT
 GOLDEN VALLEY, MINNESOTA
 SITE PLAN - LAGOON E

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1 PLAN: SITE PLAN - LAGOON D



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 SIGNATURE: _____
 DATE: _____ LICENSE # 54931

REVIEW	1/23/21	12/29/21					
BID							
CONSTRUCTION							
RECORD							
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	12/09/2021
Drawn	ADB2
Checked	PEB
Designed	BARR
Approved	PEB

**BASSETT CREEK WATERSHED
 MANAGEMENT COMMISSION**
 GOLDEN VALLEY, MINNESOTA

MAIN STEM LAGOON DREDGING PROJECT
 GOLDEN VALLEY, MINNESOTA

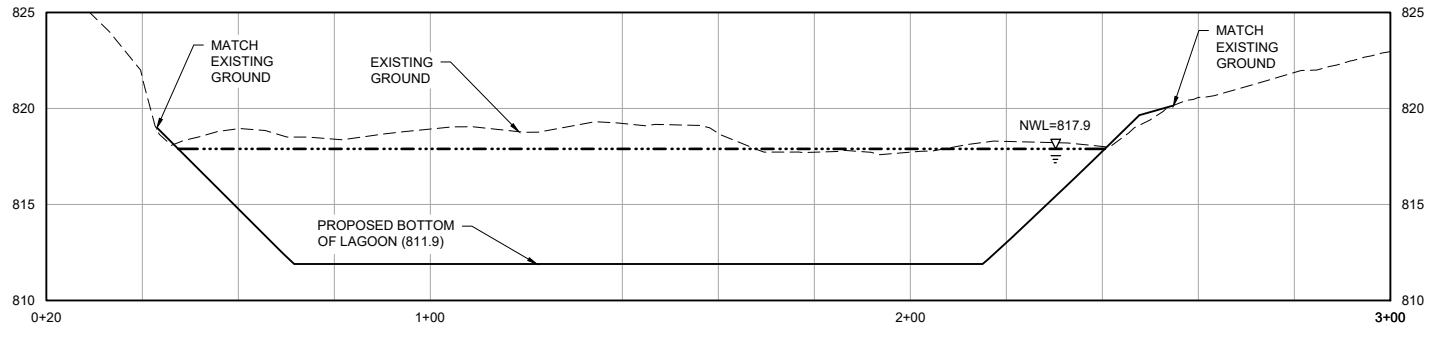
SITE PLAN - LAGOON D

50% DRAFT
 FOR REVIEW

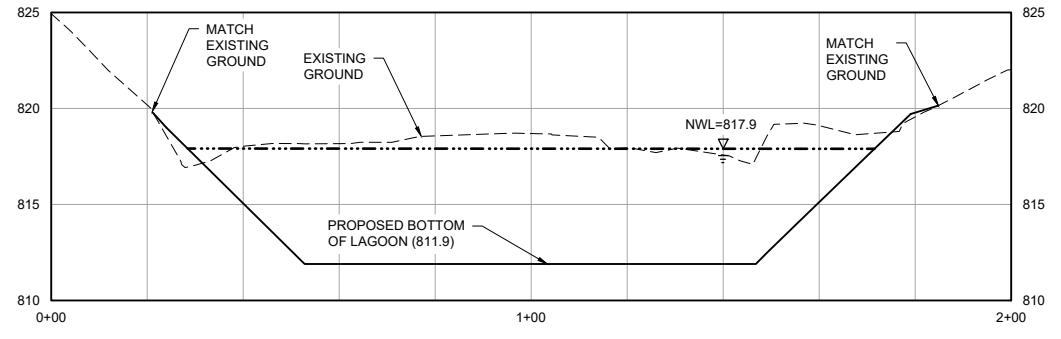
BARR PROJECT No.
 23/27-1860.00

CLIENT PROJECT No.

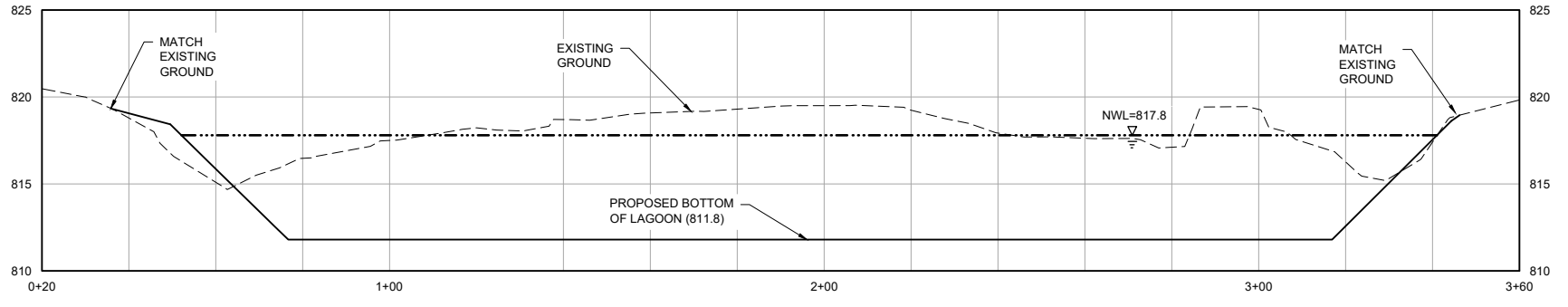
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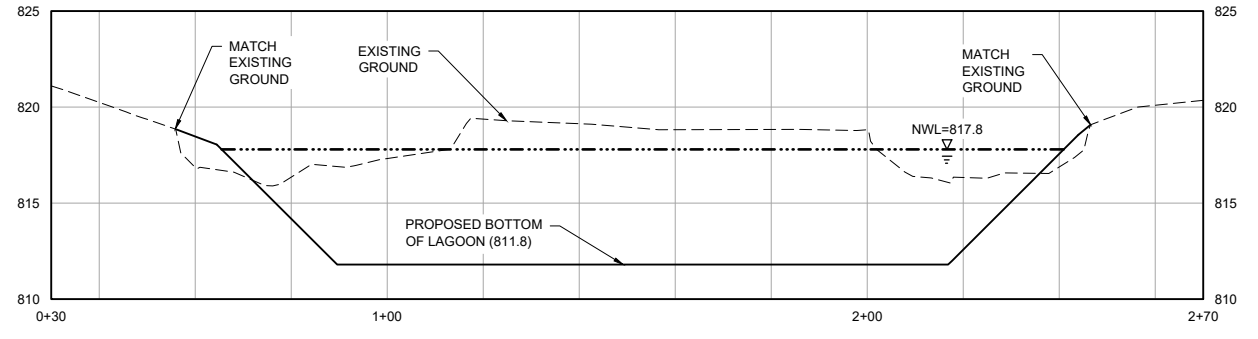
1 SECTION: LAGOON F DREDGING - 1
 HORIZONTAL SCALE IN FEET: 0, 20, 40
 VERTICAL SCALE IN FEET: 0, 5, 10



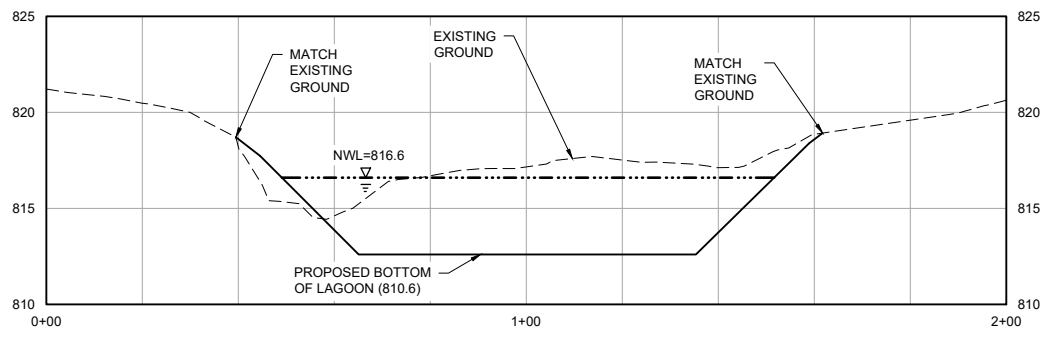
2 SECTION: LAGOON F DREDGING - 2
 HORIZONTAL SCALE IN FEET: 0, 20, 40
 VERTICAL SCALE IN FEET: 0, 5, 10



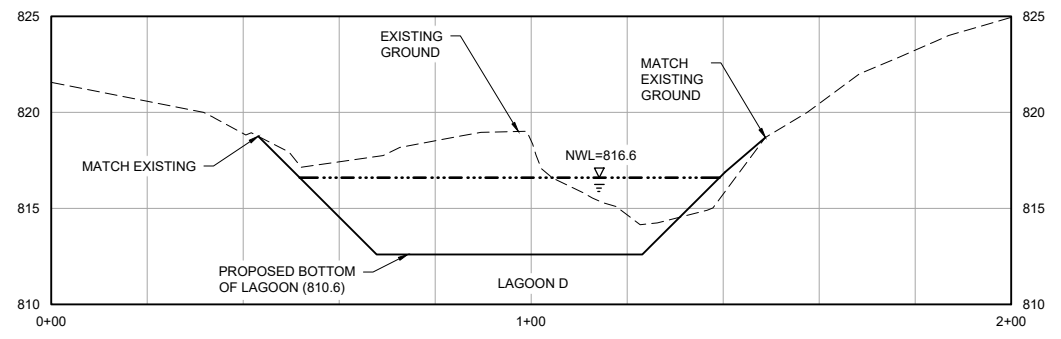
3 SECTION: LAGOON E DREDGING - 1
 HORIZONTAL SCALE IN FEET: 0, 20, 40
 VERTICAL SCALE IN FEET: 0, 5, 10



4 SECTION: LAGOON E DREDGING - 2
 HORIZONTAL SCALE IN FEET: 0, 20, 40
 VERTICAL SCALE IN FEET: 0, 5, 10



5 SECTION: LAGOON D DREDGING - 1
 HORIZONTAL SCALE IN FEET: 0, 20, 40
 VERTICAL SCALE IN FEET: 0, 5, 10



6 SECTION: LAGOON D DREDGING - 2
 HORIZONTAL SCALE IN FEET: 0, 20, 40
 VERTICAL SCALE IN FEET: 0, 5, 10

CADD USER: Patrick E. Brockamp; FILE: M:\DESIGN\23271860_C-05.DWG; PLOT SCALE: 1:2.50; PLOT DATE: 12/09/2021 11:46 AM

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: **PATRICK E. BROCKAMP**
 SIGNATURE: _____
 DATE: _____ LICENSE # 54931

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**BASSETT CREEK WATERSHED
 MANAGEMENT COMMISSION**
 GOLDEN VALLEY, MINNESOTA

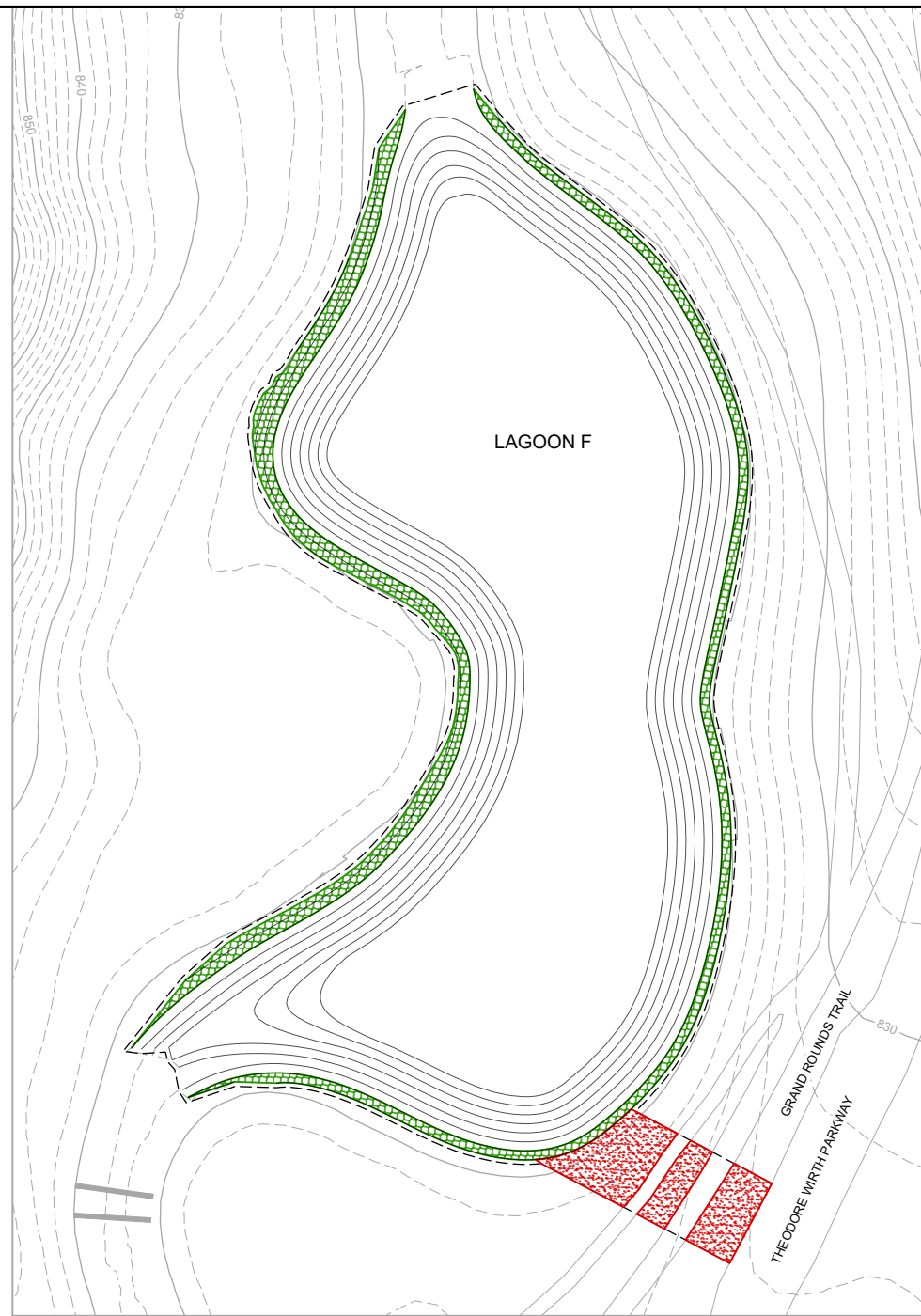
MAIN STEM LAGOON DREDGING PROJECT
 GOLDEN VALLEY, MINNESOTA

LAGOON CROSS SECTIONS

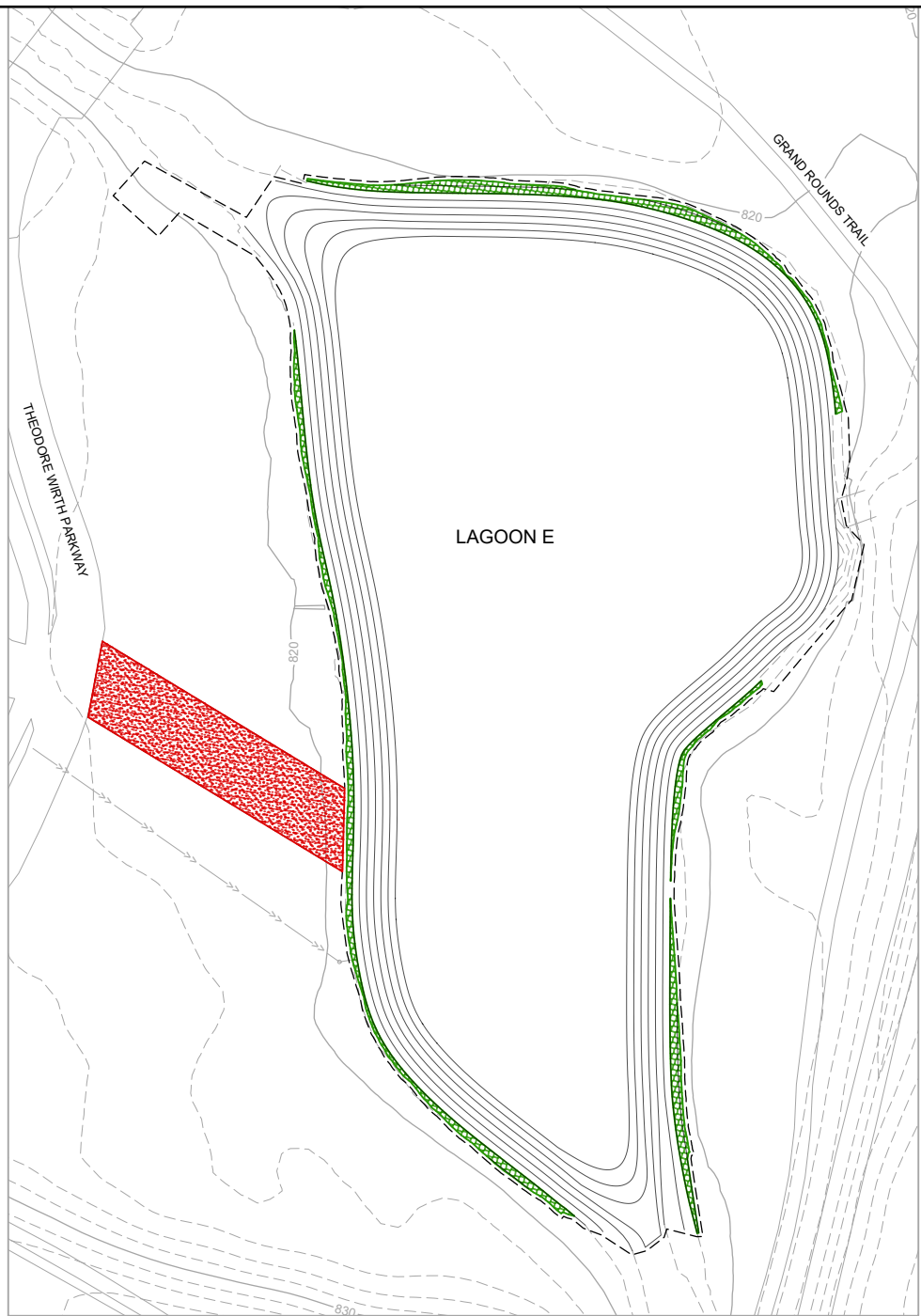
**50% DRAFT
 FOR REVIEW**

BARR PROJECT No. 23/27-1860.00
 CLIENT PROJECT No. _____
 DWG. No. C-05
 REV. No. B

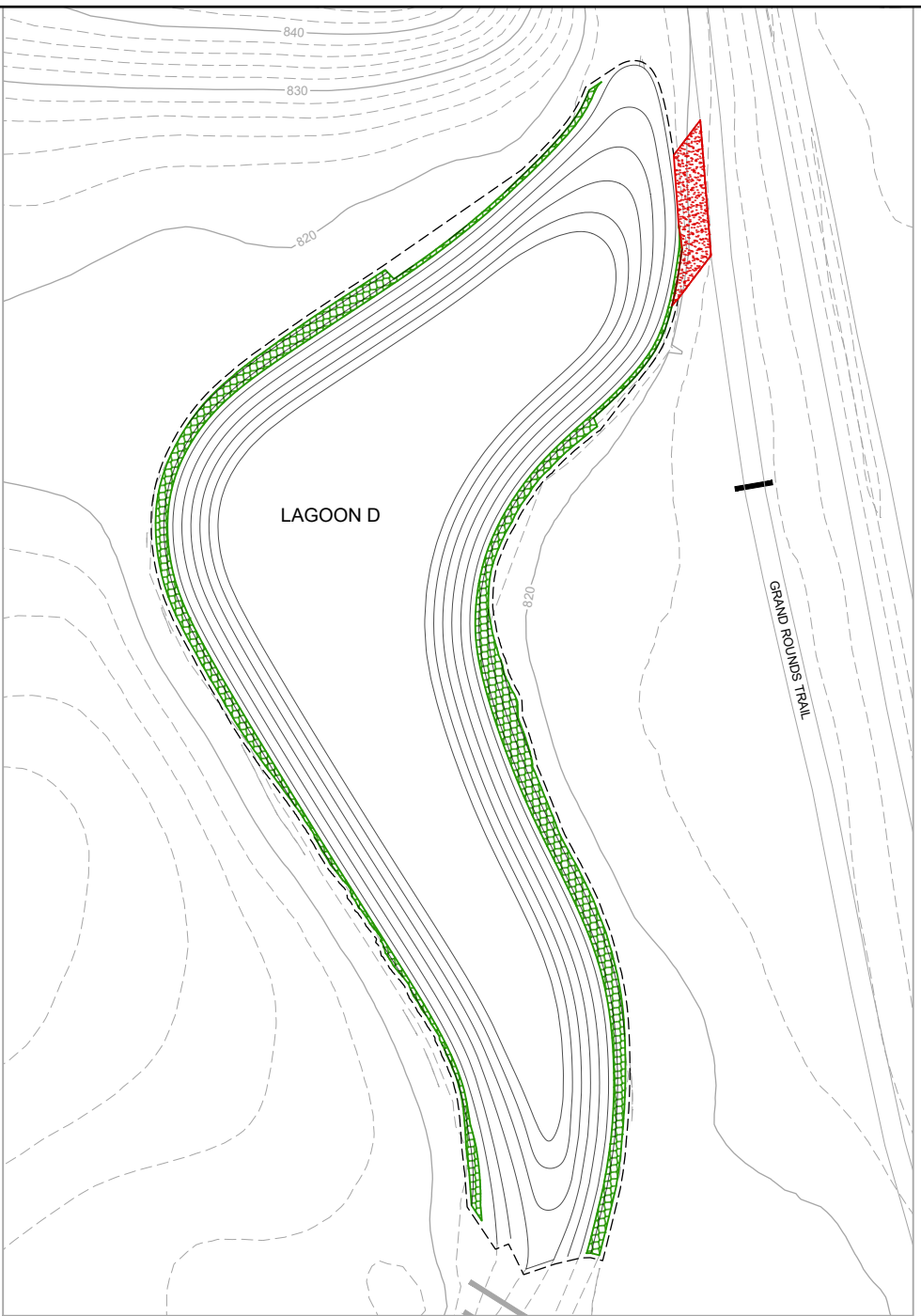
CADD USER: Patrick E. Brockamp; FILE: M:\DESIGN\23271860_00\DWG PLOT SCALE: 1:2.5049 PLOT DATE: 12/29/2021 11:46 AM



1 PLAN: LAGOON F RESTORATION PLAN
 0 40 80
 SCALE IN FEET



2 PLAN: LAGOON E RESTORATION PLAN
 0 50 100
 SCALE IN FEET



3 PLAN: LAGOON D RESTORATION PLAN
 0 40 80
 SCALE IN FEET

LEGEND

- EXISTING MINOR CONTOUR
- 880 — EXISTING MAJOR CONTOUR
- 874 — PROPOSED MINOR CONTOUR
- 875 — PROPOSED MAJOR CONTOUR
- - - - CONSTRUCTION LIMITS
- SEED MIX 1 - MNDOT 25-131 WITH HYDROMULCH
- SEED MIX 2 - MNDOT 33-262 SUPPLEMENT WITH AMERICAN SLOUGH GRASS @3 LBS/ACRE WITH MNDOT CAT 3 TYPE 2S EROSION CONTROL BLANKET

RESTORATION NOTES

1. EROSION CONTROL BLANKET SHALL BE NATURAL NETTING - ANY PLASTIC NETTING WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
2. NO HERBICIDE USE IS ALLOWED.
3. SEED IN ACCORDANCE WITH THE SPECIFICATIONS. SEEDING IS TO TAKE PLACE IMMEDIATELY FOLLOWING FINAL GRADING AND TOPSOIL PLACEMENT TO PREVENT EROSION AND COMPACTION.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN THE CASE OF ANY DISCREPANCIES BETWEEN THIS DETAIL, PLANS, OR SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.
5. NO RUBBER TIRED EQUIPMENT IN SEEDING AREAS AFTER SOIL LOOSENING. LOW GROUND PRESSURE TRACKED EQUIPMENT ONLY. ANY COMPACTION OF PREVIOUSLY LOOSENEED SOIL MUST BE LOOSENEED.
6. ALL INCIDENTAL DISTURBANCE TO TURF AREAS SHALL BE RESTORED WITH SEED MIX 3 AND HYDROMULCH.
7. SEED MIX AREAS 1 SHALL BE RESTORED WITH ADDITIONAL TOPSOIL IF REQUIRED TO MAINTAIN EXISTING TOPSOIL THICKNESS OR EXISTING GRADE.

**50% DRAFT
FOR REVIEW**

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**MAIN STEM LAGOON DREDGING PROJECT
GOLDEN VALLEY, MINNESOTA**
 RESTORATION PLAN

BARR PROJECT No. 23/27-1860.00	
CLIENT PROJECT No.	
DWG. No. C-06	REV. No. B