LOCATION MAP

LEGEND

BOREHOLE LOCATION Α BENCHMARK Ø LIGHT POLE

0 POWER POLE

0 SANITARY MANHOLE 0 STORM MANHOLE

WATER SURFACE

EDGE OF WATER DELINEATED WETLAND BOUNDARY

 \bigcirc

UNDERGROUND GAS LINE

ROAD

EXISTING CONTOURS ---890-

SEDIMENT LOG

CONSTRUCTION LIMITS

EXISTING STRUCTURES LIMITS OF RIPRAP

STRUCTURE CENTERLINE

ABBREVIATIONS

APPROXIMATE CLEAR CONCRETE COVER CENTERLINE EACH FACE ELEVATION EACH WAY EXISTING FEET MAXIMUM MINIMUM NORMAL POOL ON CENTER
TOP OF CONCRETE
TOP OF STEEL TYPICAL TOP AND BOTTOM UNLESS NOTED OTHERWISE

NOTES:

- 1. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED STANDARD FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.
- 2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CONCENSIVED BY THE CONTRACTOR'S FAMILIES. BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

WARNING

LOCATION OF UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR GOPHER STATE ONE CALL CALL BEFORE DIGGING,

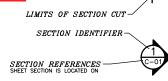
CITY OF GOLDEN VALLEY SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN



VICINITY MAP



Item 6B. **BCWMC 2-19-15**

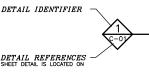


SECTION VIEW CALL OUT

SECTION IDENTIFIER (TYP.) 1 SECTION: GRAPHICS STANDARDS

SECTION REFERENCES (TYP.)

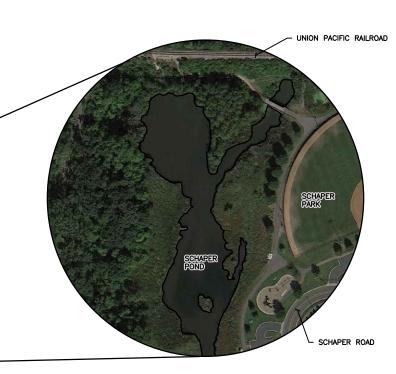
SECTION VIEW TITLE



DETAIL VIEW CALL OUT

DETAIL IDENTIFIER (TYP.) DETAIL: GRAPHICS STANDARDS DETAIL REFERENCES (TYP.)-

DETAIL VIEW TITLE



SHEET INDEX

SHEET NO. TITLE

C-01......TITLE SHEET, INDEX, AND SITE LOCATION MAP ..EXISTING CONDITIONS, EROSION CONTROL, AND SITE PLAN

.PROPOSED CONDITIONS PLAN

..WATER BAFFLE PROFILE

..WATER BAFFLE DETAILS C-05... C-06.....SECTIONS AND DETAILS

..EROSION CONTROL AND RESTORATION DETAILS

90% DRAFT NOT FOR CONSTRUCTION 2/6/2015

REVISION DESCRIPTION

47971 REG. NO.

BARR

BARR ENGINEERING CO. 4700 WEST 77TH STREET 55435-4803





SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN

TITLE SHEET, INDEX, AND

LOCATION MAP

23271399.00 13-28 C-01

REVISION DESCRIPTION

INSTALL INLET PROTECTION IN EXISTING CATCH BASINS

AS SHOWN valley MRH3

PROPOSED BERM CENTERLINE OFFSET SEDIMENT LOGS 8' MAX. EACH SIDE

EDGE OF WATER-

DELINEATED WETLAND BO

SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN

PLAN: EROSION CONTROL PLAN

SCALE IN FEET

0

EXISTING CONDITIONS, EROSION CONTROL AND SITE USE PLAN

2/6/2015 23271399.00 13-28 C-02

90% DRAFT

NOT FOR CONSTRUCTION





REG. NO. 47971



RELEASED TO/FOR

SCALE IN	FEET						
THIS PLAN, SPECIFICATION, ED BY ME OR UNDER MY	CLIENT	12/3/14	12/5/14		2/6/15		
IND THAT I AM A DULT	CONSTRUCTION						DADI
IL OF MINNESUIA.	PERMITTING			1/30/15			

DATE RELEASED

-WOOD GUARD RAIL IMPORTED CLEAN FILL (APPROX. 7 CY) REINFORCED TURF AREA (APPROX. 565 SF) EXISTING BITUMINOUS PAVEMENT PROPOSED CONTOURS -RFF P EDGE OF WATER EXISTING CONTOURS 830 - WETLAND DELINEATION BOUNDARY DETAIL: DEBRIS REMOVAL AREA AT BRIDGE

> 4 8 12 16 SCALE IN FEET

16' max. RESTORE WITH 6' COMPOST-FILLED -SEDIMENT LOG EL. 830.0' PROPOSED CATTAIL AND SEDIMENT EXCAVATION. BACKFILL WITH IMPORTED CLEAN FILL (APPROX. 20 CY) WRAP CLEAN FILL WITH GEOTEXTILE FABRIC-EL. 829.0± PLACE IMPORTED CLEAN FILL FOR BERM EMBANKMENT (APPROX. 10 CY) SOFT SEDIMENTS -

2 SECTION: CATTAIL REMOVAL AND BERM DETAIL 0 1 2 3

REF PT	NORTHING	EASTING	POINT ELEVATION	DESCRIPTION
Α	171552.43	510209.63	834.9	TOP OF NORTH ANCHOR POST
В	171492.43	510170.90	822.9	TOP OF ANCHOR
С	171482.93	510226.09	822.9	TOP OF ANCHOR
D	171417.66	510160.91	823.9	TOP OF ANCHOR
E	171428.28	510213.86	823.9	TOP OF ANCHOR
F	171351.39	510206.89	825.7	TOP OF ANCHOR
G	171375.04	510243.99	825.7	TOP OF ANCHOR
Н	171293.13	510247.60	827.2	TOP OF ANCHOR
1	171313.57	510279.64	827.2	TOP OF ANCHOR
J	171243.54	510301.76	830.0	ANCHOR POST, WEST END OF BERM
K	171222.15	510403.23	830.0	EAST END OF BERM
L	171480.26	510491.66	833.0	CORNER OF DEBRIS REMOVAL AREA
М	171468.99	510487.53	833.0	CORNER OF DEBRIS REMOVAL AREA

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1. CAREFULLY REMOVE CATTAIL AND UNDERLYING ORGANIC MATERIALS AS SHOWN. MATERIALS SHALL BE HAULED OFF SITE AND DISPOSED PER THE REQUIREMENTS OF APPLICABLE PERMITS. CONTRACTOR SHALL MINIMIZE AMOUNT OF DISTURBANCE TO ADJACENT AREAS WHILE CONDUCTING WORK.

NOTES:

STRIP AND SALVAGE EXISTING TOPSOIL MATERIALS.

REMOVE EXISTING CATTAILS AND SOFT SEDIMENT IN FILL AREA.

3. PLACE GEOTEXTILE FABRIC ON SUBGRADE. 4. PLACE AND COMPACT CLEAN

INSTALL REINFORCED TURF MATERIALS.

RINTED NAME MICHAEL R. HOEFS

roiect Office: BARR ENGINEERING CO. 4700 WEST 77TH STREET MINNEAPOLIS, MN. 55435-4803 Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com

	Scale	AS SHOWN	
	Date	10/22/14	
ET	Drawn	MRH3	
	Checked	KLC	
	Designed	MRH3	
	Approved	MRH3	

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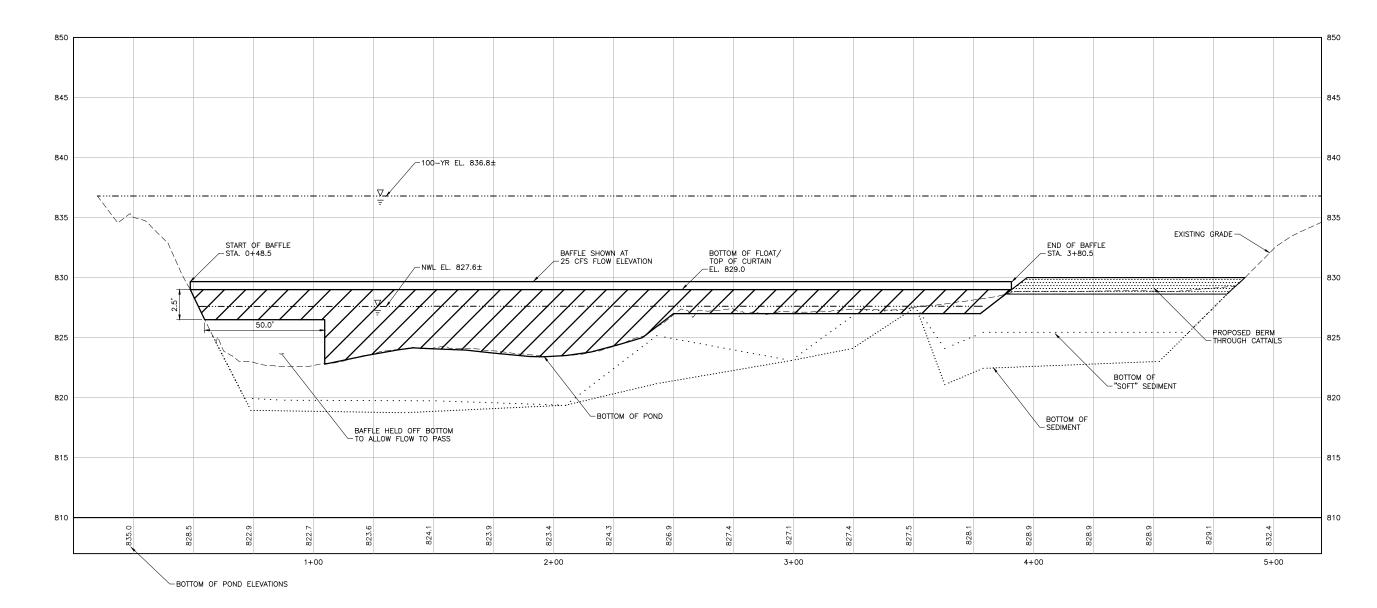
SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN
PROPOSED PLAN CONDITIONS

2/6/2015 23271399.00 13-28 C-03

NO. BY CHK APP. DATE

REVISION DESCRIPTION

BARR A B C D 1 2 3 RELEASED TO/FOR DATE RELEASED REG. NO. 47971



PROFILE: FLOATING WATER BAFFLE ALIGNMENT

20 40 SCALE IN FEET

5X VERTICAL EXAGGERATION

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þ	NO.	BY	снк.	APP.	DATE	REVISION DESCRIPTION	DATE REG. NO 47971	TO/FOR			DATE	RELE/	ASED			Ph: 1-800-632-2277	www.b
Į	A M	RH3	KLC	MRH3	12/3/14	ISSUED FOR CLIENT REVIEW	SIGNATURE	RELEASED	Α	B	С	D	1	2	3	Corporate Headquarters: Minneapolis, Minnesota	Ph: 1- Fax: (
	_			_	_ , ,	ISSUED FOR COMMISSION REVIEW	PRINTED NAME MICHAEL R. HOEFS	RECORD									5543
Ε	C	MB2	KLC	MRH3	1/30/15	ISSUED FOR PERMITTING	LAWS OF THE STATE OF MINNESOTA.	PERMITTING			1/30/15					BARK	MINNE
Ε	D C	MB2	KLC	MRH3	2/6/15	ISSUED FOR COMMISSION REVIEW	LICENSED PROFESSIONAL ENGINEER UNDER THE	CONSTRUCTION								DADD	4700
·E							OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY	BID									BARR
٠L							I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,		12/3/14	12/5/14		2/6/15	1				Project 0

Project Office:	Scale				
	Date	ſ			
4700 WEST 77TH STREET MINNEAPOLIS, MN	Drawn				
55435-4803	Checked	Γ			
Ph: 1-800-632-2277 Fax: (952) 832-2601	Designed	ſ			
www.barr.com	Approved	Γ			

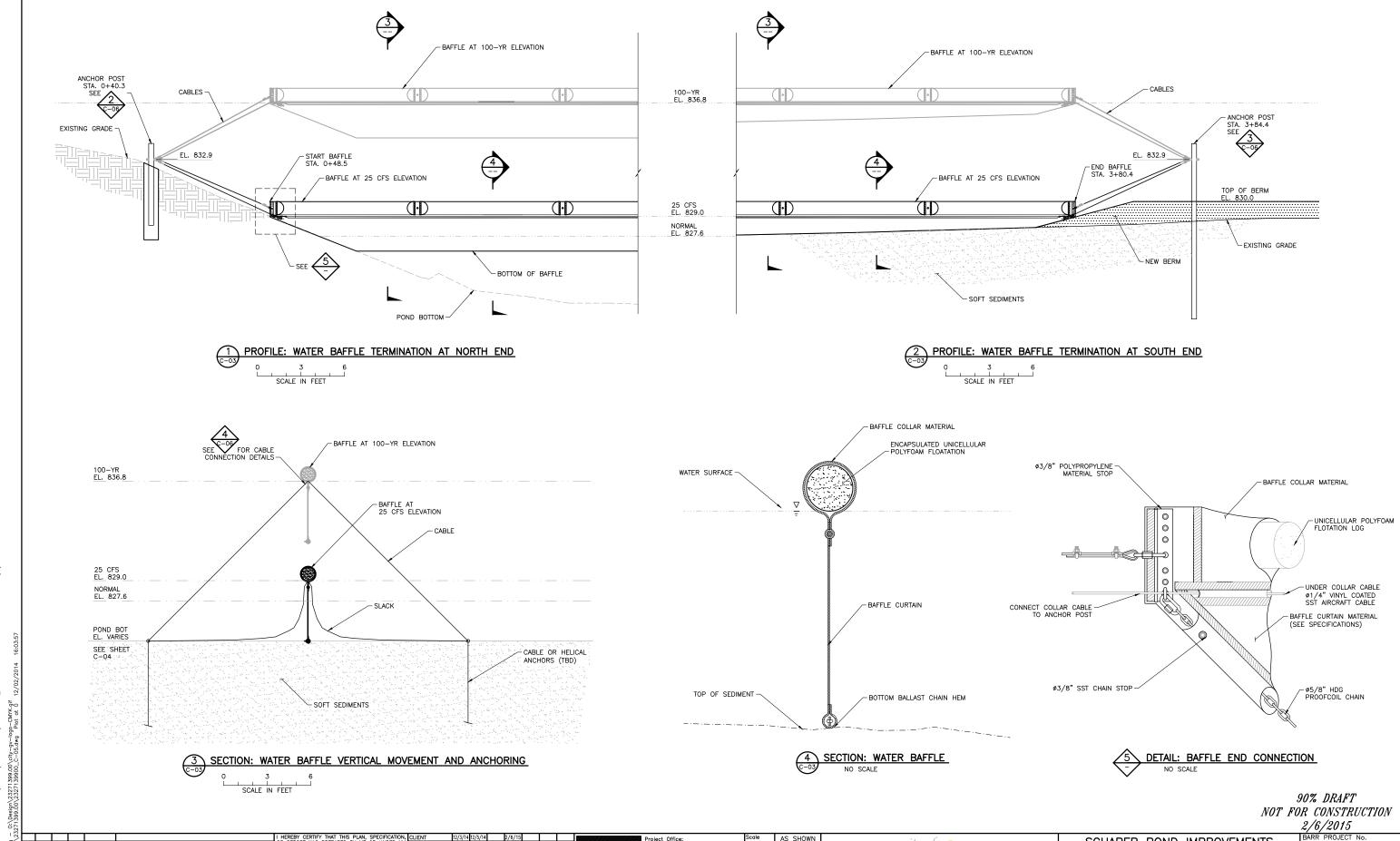
AS SHOWN

11/25/14 MRH3 KLC MRH3 MRH3



SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN					
WATER BAFFLE PROFILE					

BARR PROJECT No.						
23271399.00						
CLIENT PROJECT No.						
13–28						
DWG. No.	REV. No.					
C-04	D					



REVISION DESCRIPTION

_ REG. NO. _____47971

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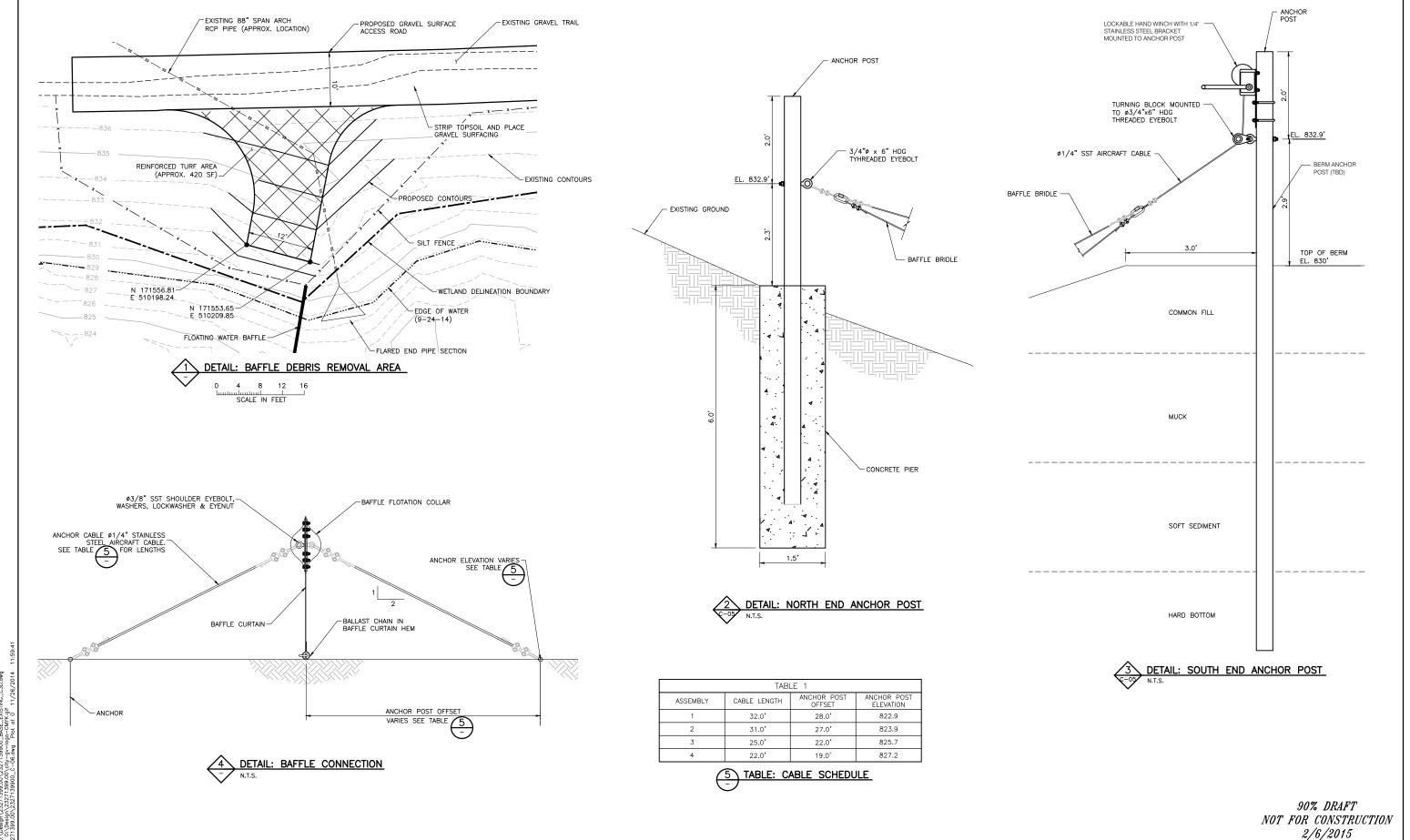
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11/25/14 MRH3 KLC MRH3 MRH3

golden valley

SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN WATER BAFFLE DETAILS

23271399.00 13-28 C-05



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REVISION DESCRIPTION

REG. NO. 47971

DATE RELEASED

BARR ENGINEERING CO.
4700 WEST 77TH STREET
MINNEAPOLIS, MN.
55435—4803
Ph: 1-800-632-2277
Fox: (952) 832-2601
www.borr.com

golden	
valley	

SCHAPER POND IMPROVEMENTS
GOLDEN VALLEY, MN
SECTIONS AND DETAILS

BARR PROJECT No.

23271399.00

CLIENT PROJECT No.

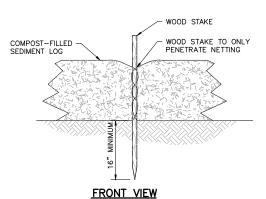
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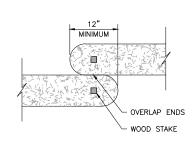
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C-06

REV. No.

DWG. No.



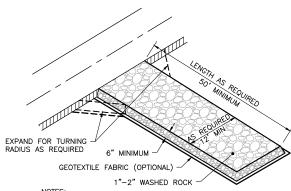


TOP VIEW

1. SEDIMENT LOG SHOULD BE INSTALLED ALONG CONTOURS (CONSTANT ELEVATION).

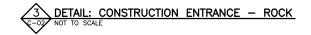
- 2. NO GAPS SHALL BE PRESENT UNDER SEDIMENT LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
- 3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN REACHING 1/2 OF LOG
- 4. SEDIMENT LOG SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED OR REPLACED AS REQUIRED.

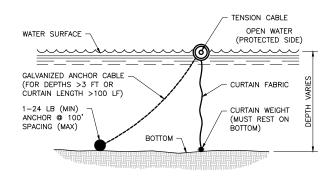


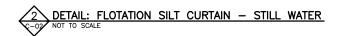


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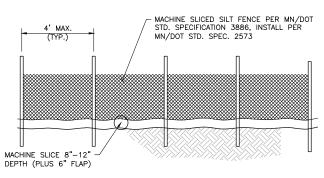
- ENTRANCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED OR REPLACED AS REQUIRED TO PREVENT TRACKING OFFSITE.
- 2. ENTRANCE SHALL BE REMOVED IN CONJUNCTION WITH FINAL GRADING AND SITE STABILIZATION.

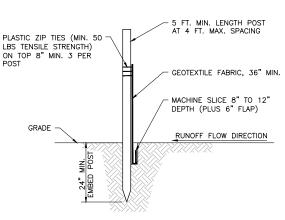






- 1. SILT CURTAIN SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES IN AREAS DRAINING TO OPEN WATER.
- ANCHOR TENSION CABLE AT SHORE AT BOTH ENDS WITH STEEL POSTS OF DIAMETER AND LENGTH SUFFICIENT TO PREVENT BENDING AND PULL-OUT.
- 3. ELIMINATE ANCHOR AND CABLE FOR WATER DEPTHS LESS THAN 3'-0" OR
- 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. SILT CURTAIN SHALL BE MAINTAINED AND REPAIRED OR REPLACED AS REQUIRED TO PREVENT DISCHARGE OF SEDIMENT.
- 7. ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO REMOVAL OF SILT CURTAIN.
- 8. SILT CURTAIN SHALL BE REMOVED FOLLOWING SITE STABILIZATION OR AS DIRECTED BY ENGINEER.





DOWNSTREAM VIEW

AS SHOWN

10/31/14

MRH3

KLC

MRH3

MRH3

SECTION VIEW

- 1. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. SILT FENCE AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
- 2. SILT FENCE INSTALLATION AND MATERIALS SHALL MEET THE REQUIREMENTS OF MN/DOT SPECIFICATIONS 2573 AND 3886.
- 3. NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER SILT FENCE. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
- 4. WHEN SEDIMENT BUILD UP REACHES 1/3 OF FENCE HEIGHT, THE SILT FENCE SHOULD BE REMOVED OR A SECOND SILT FENCE INSTALLED UPSTREAM OF THE EXISTING FENCE AT A SUITABLE DISTANCE.
- 5. 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. COMPACT BACKFILL.



90% DRAFT NOT FOR CONSTRUCTION 1/30/2015

BARR JED FOR PERMITTING ERMITTING RINTED NAME MICHAEL R. HOEFS A B C 0 1 2 3

REG. NO.

47971

DATE RELEASED

oiect Office: BARR ENGINEERING CO. 4700 WEST 77TH STREET MINNEAPOLIS, MN. 55435-4803 Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com

SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN **EROSION CONTROL AND** RESTORATION DETAILS

23271399.00 13-28 D-01

NO. BY CHK. APP. DATE