LOCATION MAP

REVISION DESCRIPTION

0

POWER POLE

0 SANITARY MANHOLE 0

STORM MANHOLE WATER SURFACE

EDGE OF WATER \bigcirc

SANITARY SEWER

OVERHEAD ELECTRIC

UNDERGROUND GAS LINE UNDERGROUND

——890— EXISTING CONTOURS EASEMENT/LOT LINE

CONSTRUCTION LIMITS STRUCTURE CENTERLINE EXISTING STRUCTURES

LIMITS OF RIPRAP

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 NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR IT'S 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 OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL INDEPENDENT LITTLE OF THE PROPERTY OF THE

WARNING

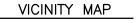
RINTED NAME MICHAEL R. HOEFS

_ REG. NO. _____47971

LOCATION OF UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR GOPHER STATE ONE CALL CALL BEFORE DIGGING, 1-800-252-1166 REQUIRED BY LAW

CITY OF GOLDEN VALLEY SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN





MRH3

Item 5C. BCWMC 12-18-14

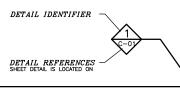
> LIMITS OF SECTION CUT SECTION IDENTIFIER SECTION REFERENCES SHEET SECTION IS LOCATED ON SECTION VIEW CALL OUT

SECTION IDENTIFIER (TYP.)

1 SECTION: GRAPHICS STANDARDS

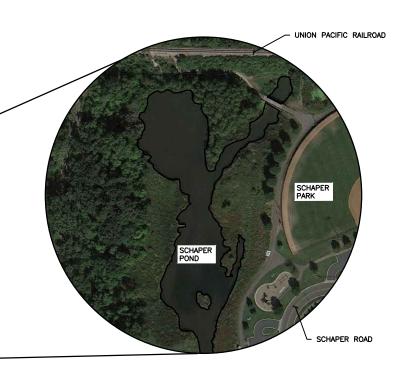
SECTION REFERENCES (TYP.)

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 C-02.....SITE PLAN AND EROSION CONTROL PLAN

C-03......PROPOSED CONDITIONS

C-04......WATER BAFFLE PROFILE

C-05......WATER BAFFLE DETAILS

C-06......DEBRIS REMOVAL AREA DETAILS PRELIMINARY DRAFT D-01.....DETAILS 12/3/2014

		I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,		12/3/14 12/5/	4			Project Office:	Scale	AS SHOWN	-: (
		OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY	BID					BARR ENGINEERING CO.	Date	10/15/14	city of
		LICENSED PROFESSIONAL ENGINEER UNDER THE	CONSTRUCTION				DADD	4700 WEST 77TH STREET	Drawn	, ,	~17
		LAWS OF THE STATE OF MINNESOTA.	PERMITTING				BARK	MINNEAPOLIS, MN.	Didwii	MRH3	901aeri
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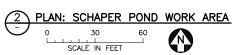
SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN TITLE SHEET, INDEX, AND

SITE LOCATION MAP

23271399.00 13-28 C-01

50%





50% PRELIMINARY DRAFT 12/5/2014

REVISION DESCRIPTION _ LICENSE # 47971 DATE RELEASED

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

AS SHOWN 10/21/14 MRH3 KLC

MRH3

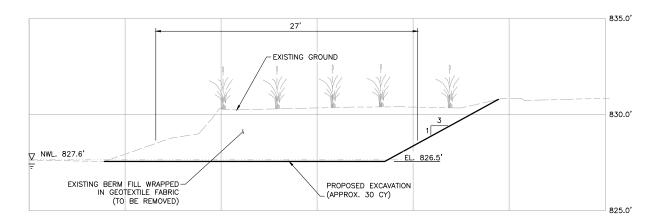
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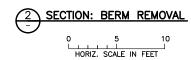
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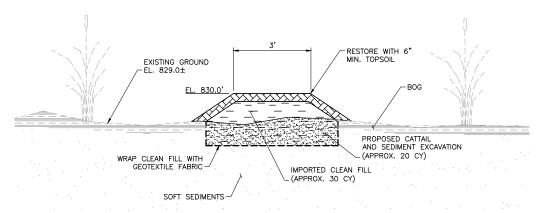
SCHAPER POND GOLDEN V	IMPROVEMENTS ALLEY, MN
	•
VISTING CONDITIONS	EBOSION CONTROL

EXISTING CONDITIONS, EROSION CONTROL, AND SITE USE PLAN

BARR PROJECT No.					
23271399.00					
CLIENT PROJECT No					
13-28					
DWG. No.	REV. No.				
C-02	В				







3 SECTION: CATTAIL REMOVAL AND BERM DETAIL 1 2 3 4 SCALE IN FEET

- 1. PERFORM EXCAVATION AND FILL WORK IN WETLANDS IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE PERMITS.
- 2. INSTALL ALL EROSION CONTROL MEASURES PRIOR TO START OF WORK.
- 3. CLEAR TREES AND BRUSH ALONG ALIGNMENT OF EXISTING BERM TO PROVIDE ACCESS TO BERM REMOVAL AREA. CONTRACTOR SHALL MINIMIZE AMOUNT OF CLEARING AND DISTURBANCE TO EXISTING BERM AND ADJACENT AREAS WHILE CONDUCTING WORK.
- 4. CAREFULLY EXCAVATE EXISTING BERM TO GRADE AS SHOWN. BERM WAS CONSTRUCTED IN 1996 BY PLACING CLEAN FILL WRAPPED IN GEOTEXTILE FABRIC. EXCAVATED MATERIAL MAY BE SALVAGED FOR USE AS FILL FOR BERM CONSTRUCTION THROUGH CATTAIL AREA, HOWEVER, THE MATERIAL SHALL CONTAIN NO RESIDUAL GEOTEXTILE FABRIC, VEGETATION, OR ORGANIC MATTER. IF SOME OR ALL EXCAVATED MATERIAL IS DEEMED UNSUITABLE FOR USE FOR BERM FILL, THE MATERIAL SHALL BE HAULED OFF SITE AND DISPOSED PER THE REQUIREMENTS OF APPLICABLE PERMITS.
- 5. CAREFULLY REMOVE CATTAIL ABD BOG MATERIALS AS SHOWN. MATERIALS SHALL BE HAULED OFF SITE AND DISPOSED PER THE REQUIREMENTS OF THE PERMIT. CONTRACTOR SHALL MINIMIZE AMOUNT OF DISTURBANCE TO ADJACENT AREAS WHILE CONDUCTING WORK.
- 6. RESTORE DISTURBED AREAS TO PRE-CONSTRUCTION GRADES AND CONDITIONS.

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roject Office: BARR ENGINEERING CO. 4700 WEST 77TH STREET BARR 4700 WEST 77TH STREET MINNEAPOLIS, MN 55435 UED FOR CLIENT REVIEW A B C 0 1 2 3 RINTED NAME MICHAEL R. HOEFS REVISION DESCRIPTION DATE RELEASED MRH3 __ REG. NO. _____47971

1 PLAN: PROPOSED IMPROVEMENTS

AS SHOWN 10/22/14 MRH3 KLC MRH3



SCHAP	R POND	IMPROVEME	NTS
	GOLDEN V	ALLEY, MN	
PRO	POSED CO	NDITIONS PLAN	

BARR PROJECT No.	
23271399	.00
CLIENT PROJECT No	
13-28	.
DWG. No.	REV. No.
C-03	В

845 840 -100-YR EL. 836.8± 835 EXISTING GRADE -START OF BAFFLE
STA. 0+48.5 END OF BAFFLE STA. 3+80.5 BAFFLE SHOWN AT -25 CFS FLOW ELEVATION BOTTOM OF FLOAT/ TOP OF CURTAIN -EL. 829.0 NWL EL. 827.6± 830 830 825 825 BOTTOM OF —"SOFT" SEDIMENT 820 820 BOTTOM OF POND BOTTOM OF SEDIMENT BAFFLE HELD OFF BOTTOM TO ALLOW FLOW TO PASS 815 815 2+00 4+00 5+00 -BOTTOM OF POND ELEVATIONS

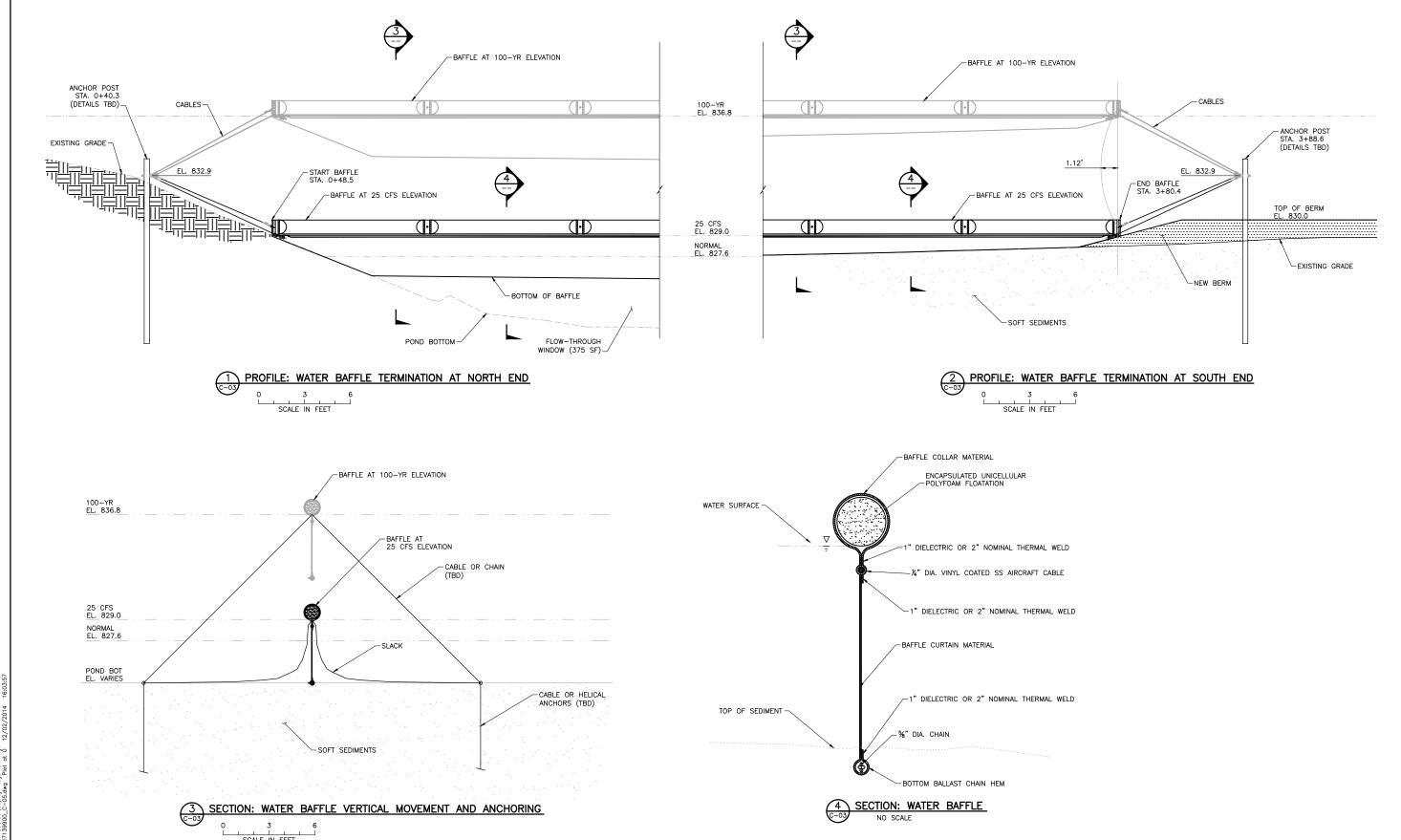
> PROFILE: FLOATING WATER BAFFLE ALIGNMENT
>
> 20 40 SCALE IN FEET

> > 5X VERTICAL EXAGGERATION

50% PRELIMINARY DRAFT 12/5/2014

AS SHOWN Project Office: golden valley SCHAPER POND IMPROVEMENTS BARR ENGINEERING CO.
4700 WEST 77TH STREET
MINNEAPOLIS, MN 55435 11/25/14 23271399.00 GOLDEN VALLEY, MN MRH3 PERMITTING 13-28 Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

www.barr.com KLC WATER BAFFLE PROFILE SUED FOR CLIENT REVIEW A B C 0 1 2 3 MRH3 PRINTED NAME MICHAEL R. HOEFS REVISION DESCRIPTION MRH3 C-04 REG. NO. 47971 DATE RELEASED



B MRH3 KLC MRH3 12/5/14 ISSUED FOR COMMISSION REV.
A MRH3 KLC MRH3 12/3/14 ISSUED FOR CLIENT REVIEW
NO. BY CHK APP. DATE REVISION [

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICAN

OR REPORT WAS PREPARED BY ME OR UNDER

DIRECT SUPERVISION AND THAT I AM A DULY

LICENSED PROFESSIONAL ENGINEER TO MOPER TH

LAWS OF THE STATE OF MINNESOTA.

COMMISSION REVIEW

PRINTED NAME MICHAEL R. HOEFS

SIGNATURE

REVISION DESCRIPTION

DATE _______ UCENSE

47971

| BID | BID

BARR ENGINEERING
4700 WEST 77TH
MINNEAPOLIS, MN.
55435-4803
Ph: 1-800-632-2277
Fax: (952) 832-22601
www.barr.com
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roject Office:

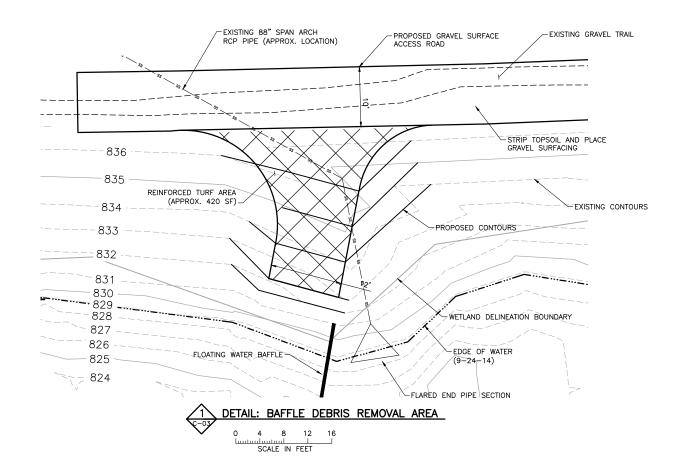
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55435-4803
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Fax: (952) 832-2661
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Associated As SHOWN
Date 11/25/14
Drawn MRH3
Checked KLC
Designed MRH3
Approved MRH3

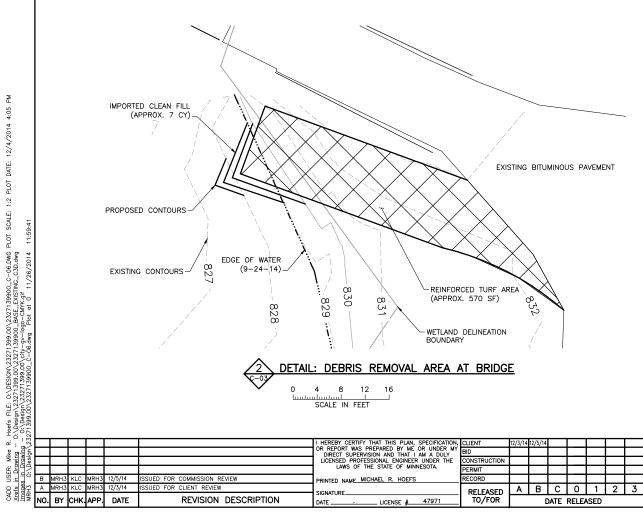
golden valley

SCHAPER POND IMPROVEMENTS
GOLDEN VALLEY, MN
WATER BAFFLE DETAILS

12/5/14
BARR PROJECT No.
23271399.00
CLIENT PROJECT No.
13-28
DWG. No.
C-05
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50% PRELIMINARY DRAFT





NOTES:

- 1. STRIP AND SALVAGE EXISTING TOPSOIL MATERIALS.
- 2. REMOVE EXISTING CATTAILS AND SOFT SEDIMENT IN FILL AREA.
- 3. PLACE GEOTEXTILE FABRIC ON SUBGRADE.
- 4. PLACE AND COMPACT CLEAN FILL.
- 5. INSTALL REINFORCED TURF MATERIALS.

S SHOWN 10/31/14 MRH3 KLC

П						I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,	CLIENT	12/3/14	12/5/14						
Т						OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY	BID								
						LICENSED PROFESSIONAL ENGINEER UNDER THE	CONSTRUCTION								DADD
Т						LAWS OF THE STATE OF MINNESOTA.	PERMIT								BAKK
	MRH3	KLC	MRH3	12/5/14	ISSUED FOR COMMISSION REVIEW	PRINTED NAME MICHAEL R. HOEFS	RECORD								
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o.	BY	снк.	APP.	DATE	REVISION DESCRIPTION	DATE LICENSE # 47971	TO/FOR			ATE	RELE/	SED			Minneapolis, Minnesota Ph: 1-800-632-2277

ct Office:	Scale	AS SHOWN			
	Date	10/31/14			
700 WEST 77TH STREET	Drawn	MRH3			
5435-4803	Checked	KLC			
h: 1-800-632-2277 ax: (952) 832-2601	Designed	MRH3			
ww.barr.com	Approved	MRH3			



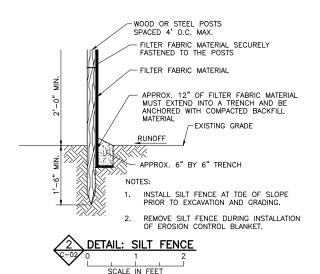
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GOI	LDEN \	/ALLEY,	MN	

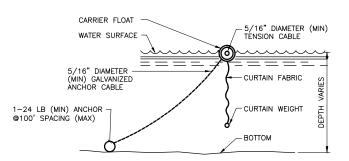
DEBRIS REMOVAL AREA DETAILS

C-06	В
DWG. No.	REV. No.
13-28	
CLIENT PROJECT No	
23271399	
BARR PROJECT No.	

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PRELIMINARY DRAFT 12/5/2014

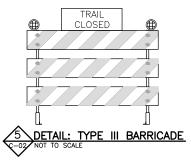


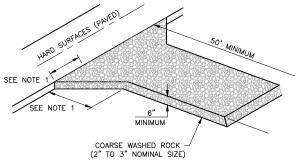


- ELIMINATE ANCHOR AND TENSION CABLE FOR WATER DEPTHS LESS THAN $3'\!-\!0"$.
- 2. ANCHOR TENSION CABLE AT BOTH SIDES WITH STEEL POSTS OF DIAMETER AND LENGTH TO PREVENT BENDING AND PULL—OUT
- - CURTAIN 22 OZ VINYL COATED NYLON FABRIC
 - FLOAT 8" MINIMUM DIAMETER PLASTIC SEGMENTS

 - WEIGHT CONTINUOUS GALVANIZED STEEL CHAIN 5/16"
 MINIMUM DIAMETER, OR SEGMENTS OF 5/16"
 DIAMETER STEEL CABLE, 24" LONG @ 12"
 BETWEEN PIECES







NOTES:

- 8'-0" MAXIMUM UNLESS DIRECTED OTHERWISE ON BOTH SIDES OF ENTRANCE
- 2. REMOVE DURING SITE RESTORATION ACTIVITIES



50% PRELIMINARY DRAFT 12/5/2014

BARR RINTED NAME MICHAEL R. HOEFS A B C 0 1 2 3 NO. BY CHK APP. DATE REVISION DESCRIPTION _ LICENSE # 47971 DATE RELEASED

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

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10/31/14

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KLC

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SCHAPER POND IMPROVEMENTS GOLDEN VALLEY, MN DETAILS

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