



Title:	Approval of 90% Design Plans for the Cottageville Park Iron-Sand Filter Maintenance and Retrofit		
Resolution number:	24-013		
Prepared by:	Name: Josh Wolf Phone: 952-641-4588 jwolf@minnehahacreek.org		
Reviewed by:	Michael Hayman, Director of Project Planning Chuck Holtman, Legal Counsel		
Recommended action:	Board approval of the 90% design for the 2024 90% design plans for the Cottageville Park Iron-Sand Filter Maintenance and Retrofit Board approval of project Disturbance and Restoration Terms.		
Schedule:	September 2023 – Design begins December 2023 – January 2024 – Design review February 9, 2024 – Bid opening March 19, 2024 – Hopkins City Council awards bid Summer 2024 – Construction begins		
Budget considerations:	Fund name and code: Project Maintenance & Land Management, 2003-4340 Fund budget: \$689,986.00 Expenditures to date: \$0		
	Res # 10-058	Approval of Cooperative Agreement between MCWD and City of Hopkins	
	Res # 10-083	Approval of purchase for 427-429 Blake Road, Hopkins	
	Res # 14-023	Cottageville Project Ordering	
	Res # 14-027	Approval of Cooperative Agreement amendment, approval of BWSR grant agreement, and authorization of design contracts with Wenck Associates and Hart Howerton	
	Res # 15-005	Authorization to Award Bid for Construction of Cottageville Park Phase 1 Project and Enter Into Construction Oversight Contracts	
	Res # 17-010	Approval of the City of Hopkins Regional Stormwater Plan for the stormwater facility at Cottageville Park and approval of an easement affording Hopkins all rights necessary to meet its inspection and maintenance obligations for the Cottageville Park stormwater management system	

Summary:

In 2010, the City of Hopkins and MCWD entered into a cooperative agreement to expand and develop Cottageville Park to improve and integrate community park amenities with the riparian system for public recreation and education purposes, while also naturalizing and stabilizing the creek channel and providing regional stormwater treatment. The Cottageville Park Agreement, and subsequent amendments, defined the partnership roles and responsibilities

surrounding land acquisition, design, construction, and long-term maintenance of the constructed amenities at Cottageville Park.

The Cottageville Park Stormwater Management and Park Improvement Project was completed in 2016 (Phase 1 of the Cottageville Park project), and pursuant to the agreement, the City maintains its own park property as well as the stormwater management facilities located beneath MCWD land, and MCWD maintains the native vegetation, riparian buffer zone improvements, and signage on its own land.

Following investigations conducted by MCWD Research and Monitoring department and the City of Hopkins from 2017-2021 it was determined that the installed subsurface iron-sand filter system was not functioning to its original level of design intent. Coupled with the need for life-cycle maintenance of the filter medium, and in accordance with the cooperative agreement, MCWD coordinated with the City of Hopkins to develop the 2024 Iron-Sand Filter Maintenance and Retrofit project. This project seeks to retrofit the subsurface facility to improve access to the system for routine maintenance and address scouring and short-circuiting of the filter media, and perform life-cycle replacement of the current iron-sand filter medium.

The project will replace the iron-sand filter medium and add additional rate control measures to reduce scouring of the newly installed iron-sand filter medium. Additionally, the project will install ground-level manhole access risers to the existing header pipe to allow for future maintenance and replacement of the filter medium without excavation of the header pipe. This project is part of a larger City of Hopkins infrastructure initiative, the 2024 Central Avenues Improvements (City Project No. 2023-10), and will be performed by Hopkins at its cost. MCWD and Stantec have reviewed the 90% plans and concur in the plans for retrofit purposes and for the present and future use of the facility for stormwater permit compliance purposes.

Additionally, in accordance with the recorded easement (Doc. No. 11203275), MCWD and the City of Hopkins have consulted and determined a set of reasonable terms for the City's occupation and restoration of District property to perform the prescribed project. A letter included in the packet will document MCWD approval of the plans and the parties' concurrence in the site use terms, and is to be countersigned by the MCWD Administrator and Hopkins City Manager.

At the February 22, 2024 Board of Managers meeting, staff will present an overview of the 90% plans for life-cycle maintenance of the filter medium and a retrofit of the stormwater facilities at Cottageville Park. Staff will recommend the Board approve the 90% plans as final design and request authorization to make additional design changes as needed to complete 100% design documents, consistent with the 90% design. Additionally, staff will request approval of the draft letter and disturbance/restoration terms documents allowing the City of Hopkins to occupy MCWD lands for the duration of the project in accordance with the existing easement.

Supporting Documents:

- 90% design plans for the 2024 Cottageville Park Iron-Sand Filter Maintenance and Retrofit project
- Draft letter and disturbance/restoration terms and plan sheets



RESOLUTION

Resolution number: 24-013

Title: Approval of 90% Design Plans for the Cottageville Park Iron-Sand Filter Maintenance and Retrofit

WHEREAS the Minnehaha Creek Watershed District (MCWD) entered into a cooperative agreement with the City of Hopkins to develop the 427-429 Blake Road, Hopkins site and to maintain site improvements;

WHEREAS Hopkins maintains its own park property as well as the iron-enhanced stormwater filtration system located beneath MCWD land, and as part of the City of Hopkins Regional Stormwater Plan, Hopkins holds an easement to afford Hopkins rights necessary to meet inspection and maintenance obligations for the filtration system;

WHEREAS investigations from 2017-2021 by MCWD Research and Monitoring and the City of Hopkins determined that the filtration system was not functioning to its original level of design intent and the iron-sand filter medium is approaching the end of its useable life-cycle;

WHEREAS MCWD cooperated with the City of Hopkins to develop the 2024 Iron-Sand Filter Maintenance and Retrofit project. This project seeks to improve access to the system for routine maintenance, retrofit to address scouring and short-circuiting of the filter medium, and perform life-cycle replacement of the current iron-sand filter medium;

WHEREAS in accordance with the recorded easement (Doc. No. 11203275), MCWD and the City of Hopkins have consulted and determined a set of reasonable terms for the City's occupation and restoration of District property to perform the prescribed project, including a draft letter and disturbance/restoration terms documents.

WHEREAS at the February 22, 2024 Board of Managers meeting, staff presented the 90% plans for life-cycle maintenance of the filter medium and a retrofit of the stormwater filtration system at Cottageville Park as well as a draft letter and disturbance/restoration terms allowing the City of Hopkins to occupy MCWD lands for the duration of the project.

NOW, THEREFORE, BE IT RESOLVED that the Minnehaha Creek Watershed District Board of Managers approves the 90% design plans for the 2024 Cottageville Park Iron-Sand Filter Maintenance and Retrofit project, authorizes the District administrator to approve additional design changes, consistent with the 90% plans, as needed to complete 100% design documents, and approves the draft letter and disturbance/restoration terms for signature of the administrator and countersignature by City of Hopkins.

Resolution Number 24-013 was moved by Manager _____, seconded by Manager _____. Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: 2/22/2024

Secretary Date: _____

City of Hopkins
Mike Mornson
1010 1st Street S
Hopkins, MN 55343

RE: Cottageville Park Iron-Sand Filter Maintenance and Retrofit

Dear Mr. Mornson:

Minnehaha Creek Watershed District (MCWD), through its engineer, Stantec, has reviewed the plans for the Cottageville Park portion of the 2024 Central Avenues Improvements (City Project No. 2023-010) prepared by Bolton & Menk for the City of Hopkins. This work concerns the life-cycle maintenance and retrofit of the iron-enhanced sand filter subsurface stormwater facility located in Cottageville Park beneath MCWD property. The plans for the work are Attachment A hereto, consisting of Sheets C2.11 (Stormwater Pollution Prevention Plan) and C5.07 thru C5.10 (Cottageville Park Storm Sewer), all dated 1/16/24. The MCWD concurs in the plans for retrofit purposes and for the present and future use of the facility for permit compliance purposes.

Additionally, in accordance with the recorded easement (Doc. No. 11203275), MCWD and the City of Hopkins have consulted and determined a set of reasonable terms for the City's occupation and restoration of District property to perform the work, set forth in Attachment B hereto.

Please countersign below to indicate the City's agreement to perform the work in accordance with Attachments A and B. MCWD appreciates the City's coordination on this and looks forward to the completion of the work. Please be sure to contact me if the MCWD can facilitate the work in any fashion.

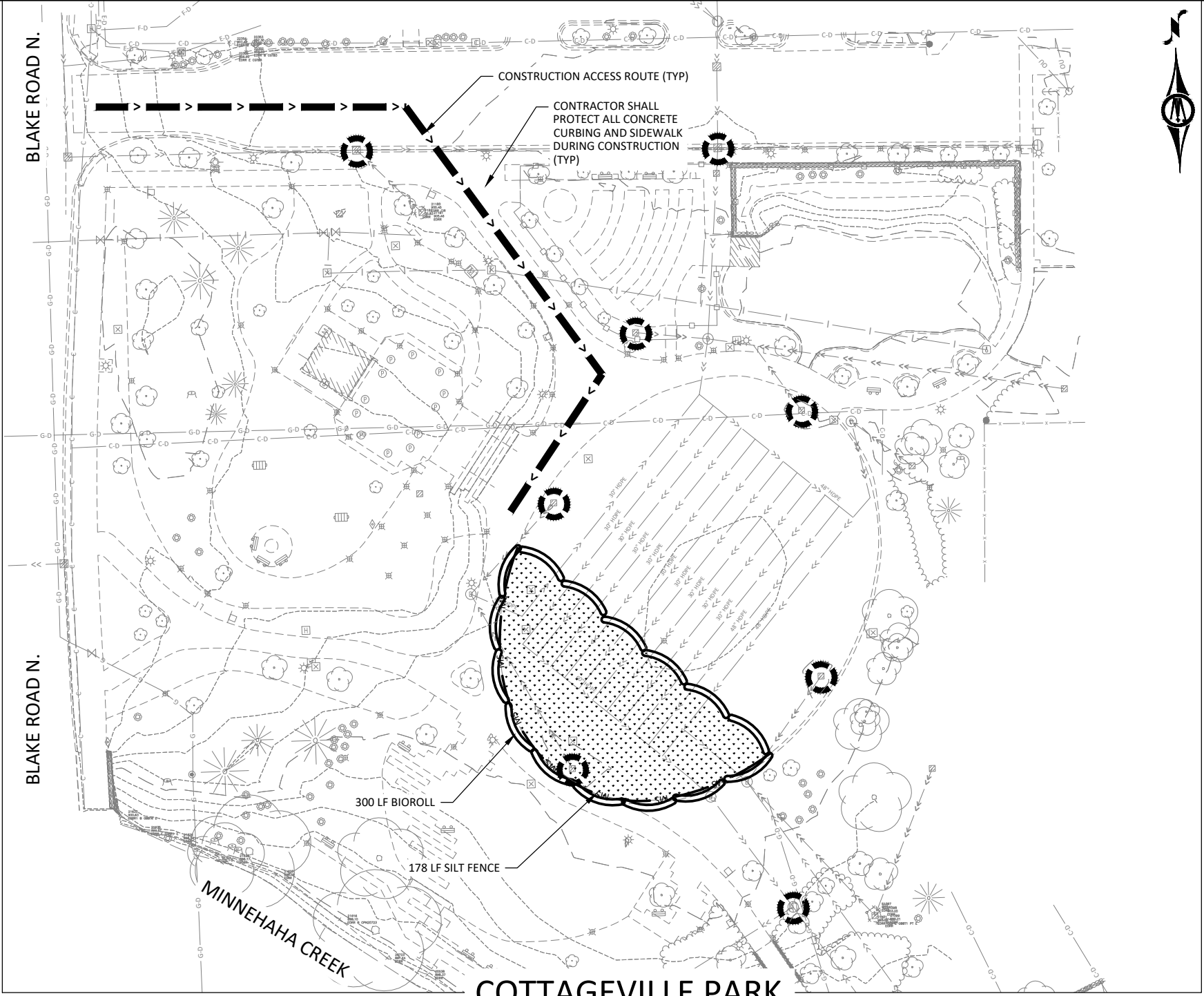
James Wisker, Administrator






Date:

COUNTERSIGNED:

Mike Mornson, City Manager

Date:



LEGEND	
	MS SILT FENCE
	SEDIMENT CONTROL LOG (BIOROLL)
	INLET PROTECTION
	LAWN TYPE SOD
	CONSTRUCTION ACCESS ROUTE

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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.

Nick Amatuccio
NICHOLAS J. AMATUCCIO
LIC. NO. 53639 DATE 01/16/2024



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

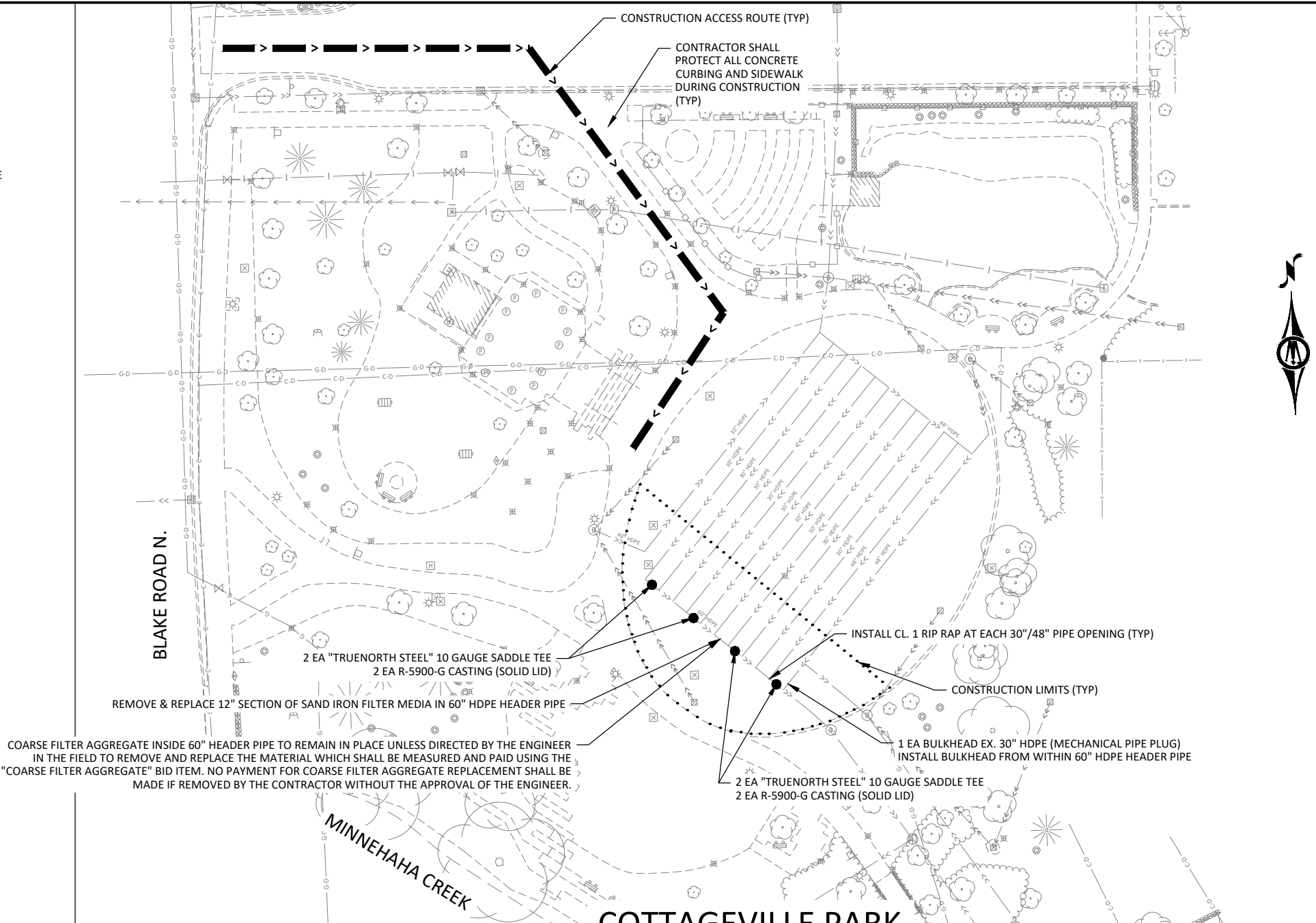


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NA			
CLIENT PROJ. NO.			
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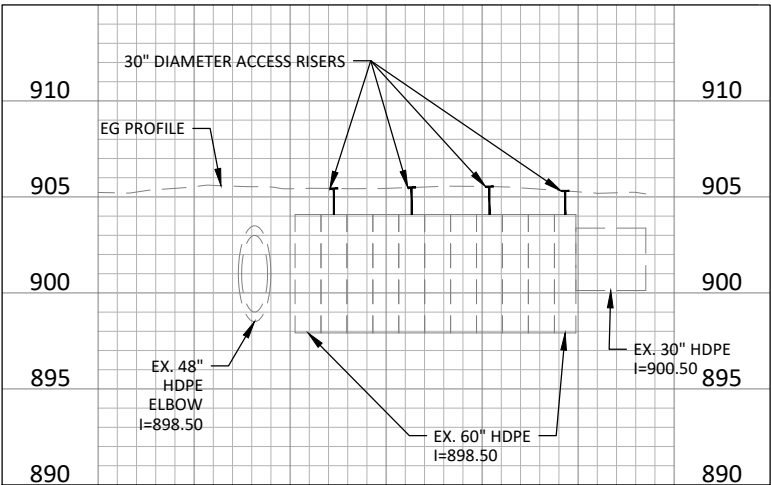
HOPKINS, MINNESOTA
2024 CENTRAL AVENUES IMPROVEMENTS
STORMWATER POLLUTION PREVENTION PLAN
COTTAGEVILLE PARK

SHEET
C2.11

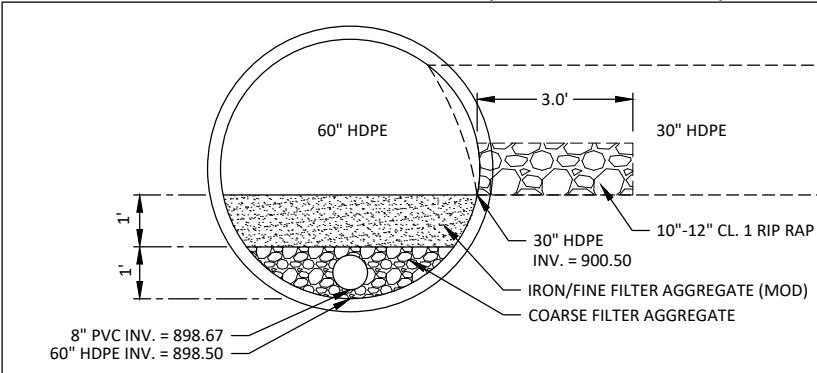
- 30" ACCESS RISER BID ITEM SHALL INCLUDE THE FOLLOWING:
1. EXCAVATION TO, EXPOSING OF, AND CLEANING THE EXISTING HDPE PIPE WHERE THE ACCESS RISERS ARE TO BE INSTALLED.
 2. CUTTING 30" DIAMETER HOLE IN THE HDPE TEES/ELBOWS WHERE THE SADDLES ARE TO BE INSTALLED.
 3. DRILLING OF HOLES THROUGH THE CENTER OF THE HDPE PIPE RIBS.
 4. PROVIDING AND INSTALLING CLOSED-CELL FOAM BACKER ROD BENEATH THE SADDLE TEE BETWEEN THE HDPE PIPE RIBS PRIOR TO FASTENING THE SADDLE TEES.
 5. PROVIDING AND SECURING THE SADDLE TEES TO THE HDPE WITH SCREWS OR BOLTS (SEE SHEET C5.08)
 6. BACKFILLING AND COMPACTING THE SOIL IN THE EXCAVATED AREAS WITH PORTABLE EQUIPMENT AS NECESSARY TO BRING THE SURFACE ELEVATION IN CONFORMITY WITH THE EXISTING GRADES.



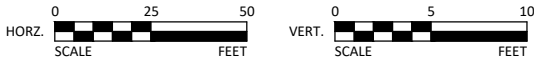
- CONSTRUCTION NOTES:
1. ALL CONNECTIONS ARE CONSIDERED INCIDENTAL TO THE SADDLE TEE BID ITEM.
 2. REFERENCE SHEETS C5.08-C5.10 FOR FURTHER INFORMATION ON SYSTEM AND SYSTEM UPGRADES.
 3. ALL RESTORATION ITEMS AND CASTINGS WILL BE PAID FOR AS SEPERATE BID ITEMS.



60" HDPE HEADER PIPE DETAIL (NOT TO SCALE)



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Nick Amatuccio

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HOPKINS, MINNESOTA

2024 CENTRAL AVENUES IMPROVEMENTS

COTTAGEVILLE PARK STORM SEWER

STORM PLAN & PROFILE

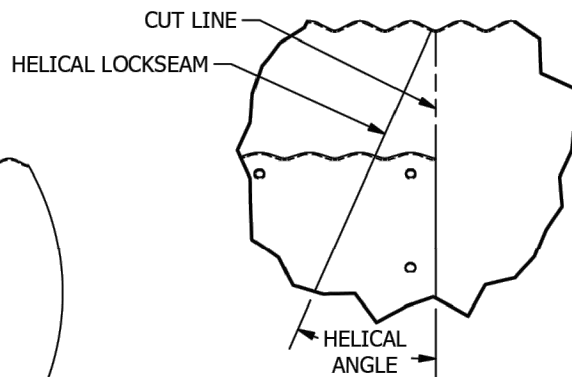
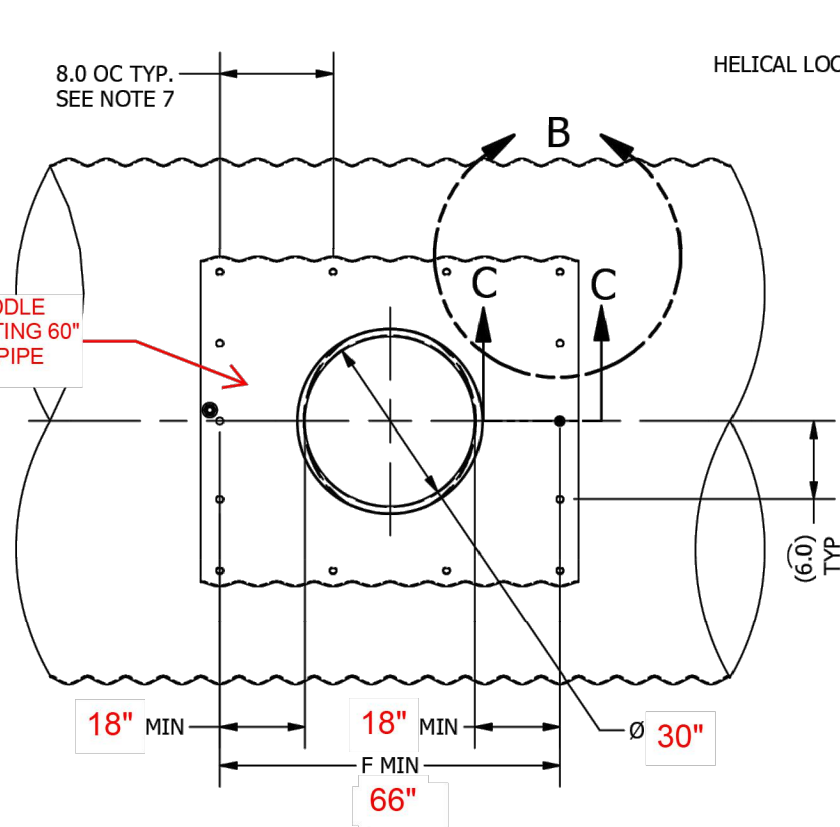
SHEET

C5.07

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QC	LAYOUT	DIM. INSP.:	WELDER:	WELD INSP.:	COATING:	COAT. INSP.:	COMP. DATE:	HEAT #:

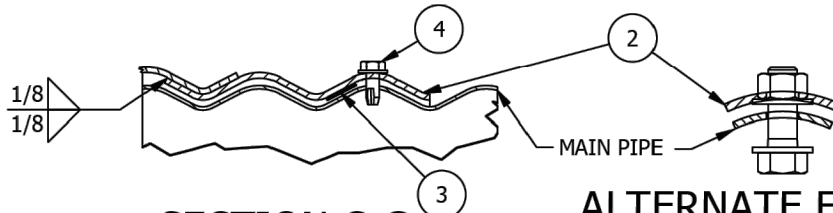
INSTALL CMP SADDLE
TEES OVER EXISTING 60"
DIAMETER HDPE PIPE



DETAIL B

HELICAL VARIATION

1. FOR HELICAL, 3X1, 5X1, AND SPECIALTY
2. MUST BE FABRICATED FROM A PRODUCED SECTION OF PIPE TO ENSURE CORRUGATIONS FIT DUE TO HELICAL ANGLE

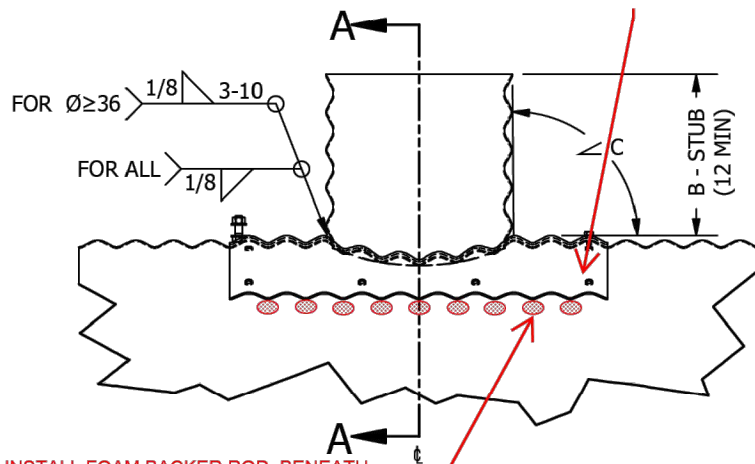


SECTION C-C

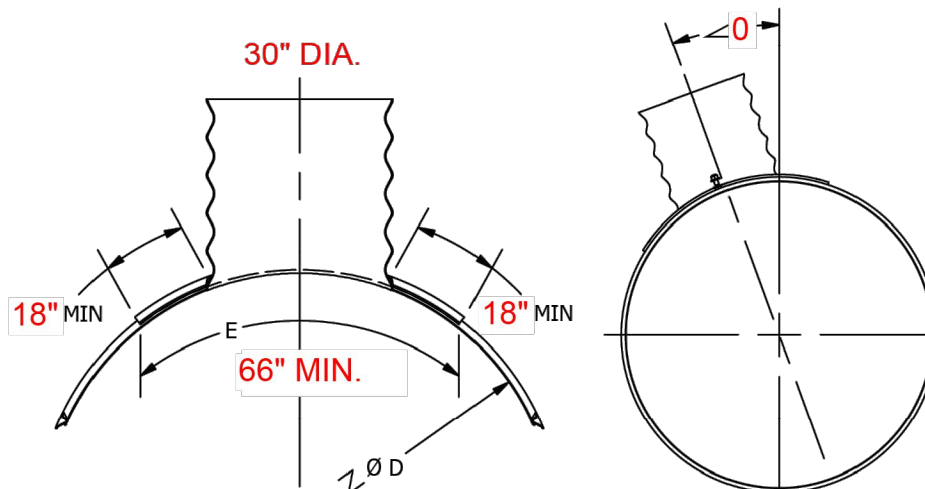
FASTENERS AND ANNULAR SHEET LAP TYP

1. LAP ADDITIONAL SHEETS IF SADDLE " F " DIMENSION WIDER THEN 25.5"
2. NON-STRUCTURAL FASTENERS USE .25" SELF DRILLING SCREWS
3. STRUCTURAL FASTENER USE .5" BOLTS, WASHERS AND NUTS

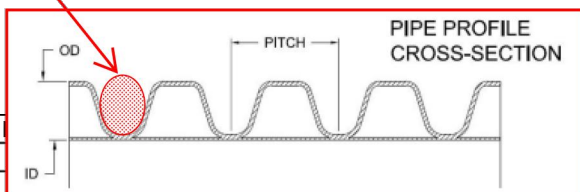
HOLES SHALL BE DRILLED SUCH
THAT THE THEY GO THROUGH THE
CENTER OF THE HDPE PIPE RIBS



INSTALL FOAM BACKER ROD BENEATH
THE SADDLE TEE BETWEEN THE HDPE
PIPE RIBS PRIOR TO FASTENING THE
SADDLE TEES (TYPICAL)



SECTION A-A



DR-3543	0	6/8/2021
ECN #	REV	DATE

BILL OF MATERIAL					
SL ITEM#	SHOP MARK	ITEM QTY	DESCRIPTION	REMARKS	WEIGHT/LBS.
	1	1	CSP _____ in _____ Ga _____	STUB	VARIES
	2	1	SHEET _____ Ga _____	SADDLE	VARIES
REZTUBE	3	2	EZ-Stik #3 Trowelable 11oz Caulking Tube		0.688
3400-0050	4		Screw,Hex,WSH Head,.25-14,.75,CS,Climase		0.033
BOLT.5X1.5-ED-USMM	5	1	Bolt,Hex,.5-13x1.5,A307,Zinc8,USMM		0.134 lbmass
NUT.5-ED-USMM	7	1	Nut,Hex,.5-13 A563A/F1941 ClFeZn8,USMM		0.044 lbmass
WSH.5-ED-USMM	8	2	Washer,Flat,F436,.5x1.063,Type1/F1941		0.018 lbmass

ALTERNATE FASTENERS					
SL ITEM#	SHOP MARK	ITEM QTY	DESCRIPTION	REMARKS	WEIGHT/LBS.
BOLT.5X1.5-ED-USMM	4	1	Bolt,Hex,.5-13x1.5,A307,Zinc8,USMM		.13
NUT.5-ED-USMM	6	1	Nut,Hex,.5-13 A563A/F1941 ClFeZn8,USMM		.04
WSH.5-ED-USMM	7	2	Washer,Flat,F436,.5x1.063,Type1/F1941		.02


DIMENSION TABLE			
KEY	DESCRIPTION	DIMENSION	REMARKS
A	STUB DIA.	30"	
B	STUB LENGTH	24"	
C	STUB ANGLE	90 Degree	
D	MAIN PIPE DIA	67"(4 EACH)	
E	SADDLE SHEET LENGTH	66" MIN.	
F	SADDLE SHEET WIDTH	60"	
G	ATTACHMENT ANGLE	0.0 Degree	
H	SADDLE GAUGE/MAT'L	10 Gauge	
J	FASTENER TYPE	SCREW / BOLT	

NOTES:

1. SADDLE PLATES ARE TYPICALLY THE SAME GAUGE OR ONE GAUGE HEAVIER THEN MAIN PIPE
2. SUPPLY ANGLE " C " FOR ANGLES OTHER THEN 90°
3. NON-STRUCTURAL APPLICATIONS USE SCREWS SEE SECTION C-C
4. STRUCTURAL APPLICATIONS USE ALTERNATE FASTENERS
5. SADDLE WIDTH IS CALCULATED AS FOLLOWS: " F " = (STUB DIA " A " + 12 ") / SIN (" C ")
6. FOR SPAN OR DIAMETERS Ø ≥ 60" MUST HAVE ADDITIONAL ENGINEERED REINFORCING
7. ALT. FASTENER SPACING ALONG " F " NON-STD (2-2/3X1/2) CORRUGATIONS:
3X1 = 6" O.C. / 5X1 = 10" O.C. / SPECIFY OTHER _____

INSTALLATION:

1. PLACE SADDLE AND MARK ID PROFILE ON PIPE MAINLINE.
2. CUT HOLE IN MAIN DIAMETER OF PIPE TO MARKED PROFILE.
PREFERRED CUTTING METHOD IS RECIPROCATING SAW OR SHEAR.
3. DO NOT USE CUTTING TORCH ON POLY OR ASPHALT COATED PIPE.
4. REPLACE SADDLE AND MARK AND DRILL HOLES IF NECESSARY FOR BOLTS.
5. APPLY SEALANT BETWEEN PIPE SADDLE AND SCREW OR BOLT SADDLE TO PIPE MAINLINE.

THIS DESIGN IS PROPERTY OF TRUENORTH STEEL DUPLICATION WITHOUT WRITTEN PERMISSIONS IS STRICTLY PROHIBITED		 TrueNorth Steel	
DESCRIPTION: SADDLE STOCK ASM			
DRAWN BY: DMA		PART #:CMP FAB	
DATE: 8/5/2015		WEIGHT: 160.992 lbmass	
CHECKED: JPS		MATERIAL:	
CHK DATE: 6/8/2021		JOB#	QTY: SHEET NO: 1 OF 1

DRAWING IS NOT TO SCALE ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED ALL WELDS MUST BE REPAIRED AFTER FABRICATION (PER ASTM 760)		TOLERANCES X.X ± 0.5" X.XXX ± 0.13" X.XX ± 0.25"	CUSTOMER APPROVAL SIGNATURE DATE
PIPE LENGTHS HAVE A TOLERANCE OF ± 2" PIPE DIAMETERS HAVE A TOLERANCE OF THE GREATER OF ± 1/2" OR 1% ALL ANGLES HAVE A TOLERANCE OF ± 3°	JPS BY		

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED
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NICHOLAS J. AMATUCCIO
LIC. NO. 53639 DATE 01/16/2024



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
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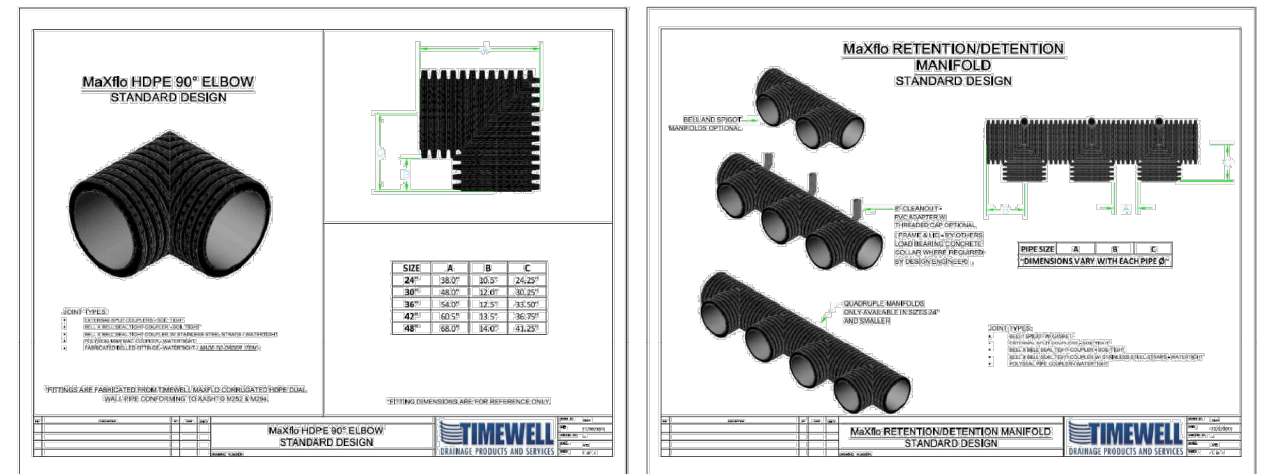
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HOPKINS, MINNESOTA
2024 CENTRAL AVENUES IMPROVEMENTS
COTTAGEVILLE PARK STORM SEWER
SADDLE TEE DETAILS

SHEET

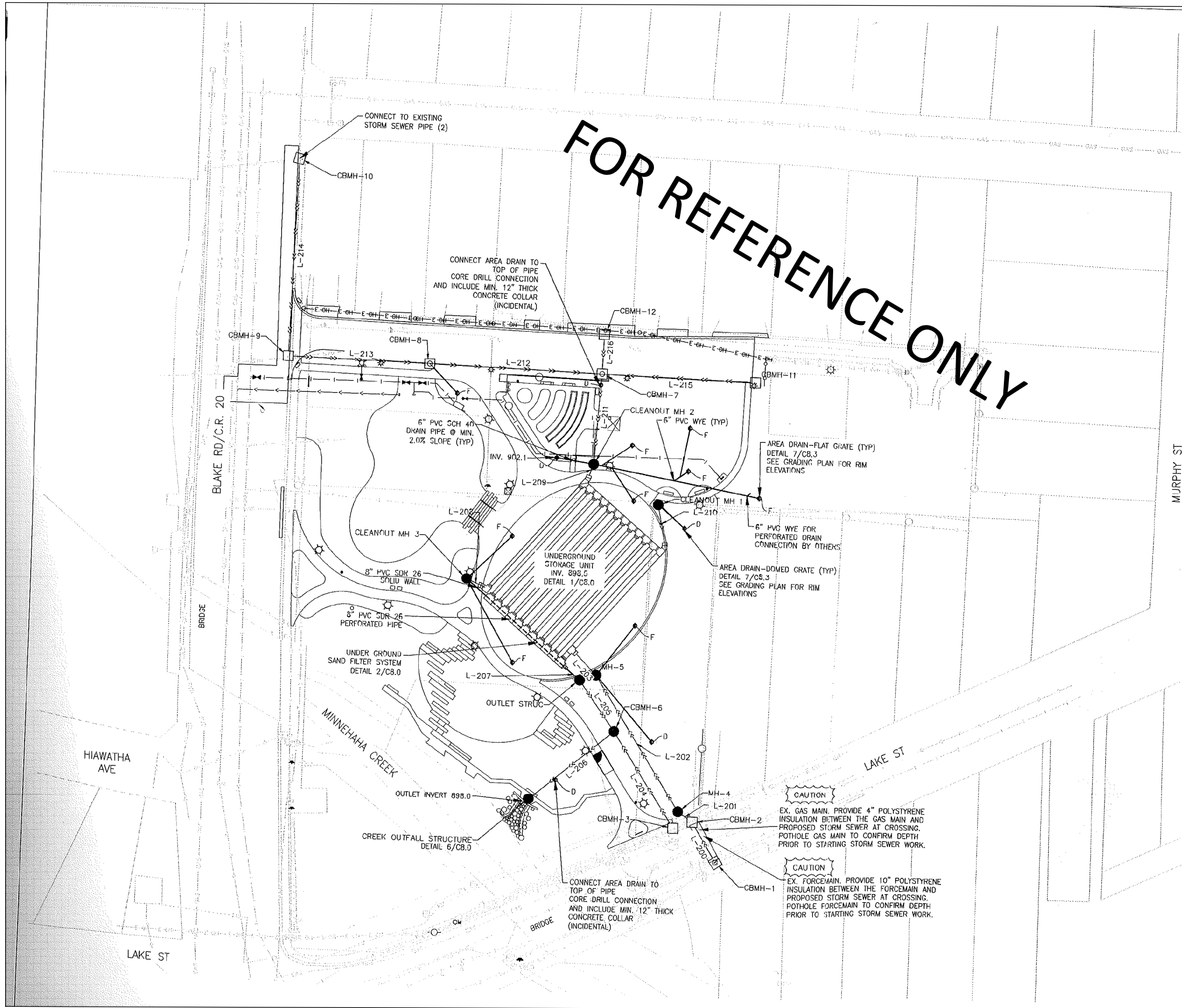
C5.08

FOR
REFERENCE
ONLY



C5.09

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STRUCTURE TABLE			
STRUCTURE	DETAIL	CASTING	SIZE
CBMH-1	ST-2/C8.1	R-3067	2'X3'
CBMH-2	ST-5/C8.1	R-3067	4' DIA.
CBMH-3	ST-2/C8.1	R-3067	2'X3'
MH-4	4/C8.0	R-1642	7' DIA.
MH-5	ST-5/C8.1	R-1642	4' DIA.
CBMH-6	ST-5/C8.1	R-2577	7' DIA.
CBMH-7	ST-5/C8.1	R-3067	4' DIA.
CBMH-8	ST-5/C8.1	R-3067	4' DIA.
CBMH-9	ST-5/C8.1	R-3067	4' DIA.
CBMH-10	ST-5/C8.1	R-3067-C	4' DIA.
CBMH-11	5/C8.0	R-3067	6' DIA.
CBMH-12	7/C8.0	R-2577	27' DIA.
CLEANOUT MH 1	ST-5/C8.1	R-3067-C	4' DIA.
CLEANOUT MH 2	4/C8.0	R-1642	7' DIA.
CLEANOUT MH 3	ST-5/C8.1	R-1642	7' DIA.
OUTLET STRUCTURE	3/C8.0	R-1642	7' DIA.
CREEK OUTFALL STRUCTURE *	6/C8.0	R-1642	8'X6'

*NOTE: CREEK OUTFALL STRUCTURE INCLUDES 6'X6' BOX, ADJUSTMENT, RINGS, CASTING, HEADWALL, STONE VENEER, RAILING, AND OTHER APPURTENANCES.

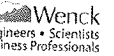
STORM SEWER PIPE TABLE				
PIPE	SIZE	MATERIAL	LENGTH	GRADE
L-200	12.0"	RC	37 LF	0.63%
L-201	18.0"	RC	14 LF	0.82%
L-202	18.0"	RC	127 LF	0.22%
L-203	18.0"	RC	23 LF	0.00%
L-204	15.0"	RC	90 LF	0.63%
L-205	43.75" x 26.63" (ARCH)	RC	49 LF	0.30%
L-206	43.75" x 26.63" (ARCH)	RC	86 LF	0.40%
L-207	30.0"	RC	14 LF	0.00%
L-208	48.0"	RC	16 LF	0.00%
L-209	48.0"	RC	10 LF	0.00%
L-210	48.0"	RC	31 LF	0.00%
L-211	18.0"	RC	72 LF	0.47%
L-212	18.0"	RC	136 LF	0.46%
L-213	18.0"	RC	112 LF	0.47%
L-214	18.0"	RC	157 LF	0.50%
L-215	12.0"	RC	122 LF	0.68%
L-216	18.0"	RC	32 LF	0.70%

STORM SEWER NOTES:

- PIPE BEDDING FOR PVC AND HDPE PIPES SHALL CONFORM TO ASTM C-2321 AND CITY OF HOPKINS STANDARD DETAIL SS-5 (INCIDENTAL), SEE SHEET C8.1.
- PIPE BEDDING FOR RC PIPE SHALL CONFORM TO CITY OF HOPKINS STANDARD DETAIL ST-6, SEE SHEET C8.1.
- LOCATION OF STORM SEWER STRUCTURES IS APPROXIMATE. EXACT STRUCTURE LOCATION SHALL BE COORDINATED SO CASTING MATCHES CURB LINE (IF APPLICABLE).

DEWATERING NOTES:

- CONTRACTOR SHOULD ANTICIPATE GROUND WATER. A BID ITEM HAS BEEN PROVIDED FOR DEWATERING THE UNDERGROUND STORAGE UNIT, CREEK OUTFALL STRUCTURE, AND OUTFALL CHANNEL INSTALLATIONS. DEWATERING FOR ALL OTHER WORK, SUCH AS PIPE (WATER, SANITARY, AND STORM) AND STORM SEWER STRUCTURE INSTALLATION, SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE BID ITEM.
- CONTRACTOR RESPONSIBLE TO SUBMIT DEWATERING PLAN TO ENGINEER FOR REVIEW. DEWATERING SHALL MEET ALL PERMIT REQUIREMENTS AND BE APPROVED PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES.



HART HOWERTON

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and I am a duly licensed Engineer under the laws of the State of Minnesota.

CHRISTOPHER J. NEEHAN
License No. 43066
Date: 12-18-14

COTTAGEVILLE PARK
PHASE 1

Hopkins, Minnesota
Minnehaha Creek Watershed District

SCALE: AS SHOWN

NOTE: ALL DIMENSIONS ARE TO THE CENTERLINE UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE COORDINATED WITH THE ADJACENT PROJECTS TO AVOID CONFLICTS.

DATE	ISSUE
12/18/14	BID ISSUE

REVISIONS		
NO.	DATE	ISSUE

STORM SEWER
PLAN

PROJECT #:
0185-5097
DRAWN BY:
MIS

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.
Nick Amatuuccio
NICHOLAS J. AMATUCCIO
LIC. NO. 53639 DATE 01/16/2024



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Email: burns@bolton-menk.com
www.bolton-menk.com



DESIGNED	NO.	ISSUED FOR	DATE
JW/JH			
DRAWN			
JW/JH			
CHECKED			
NA			
CLIENT PROJ. NO.			
07.130543			

HOPKINS, MINNESOTA
2024 CENTRAL AVENUES IMPROVEMENTS
COTTAGEVILLE PARK STORM SEWER
RECORD PLAN

Attachment B

Cottageville Park: Terms for MCWD Property Occupation & Restoration

The City of Hopkins (City) is to perform maintenance and retrofit work on the underground stormwater management system at Cottageville Park. The system lies in part beneath MCWD property, which will be disturbed to access the system, and by staging for the work.

The existing easement that allows the City to enter MCWD property for this work provides that the City and MCWD will agree to terms governing the City's occupation and restoration of the property. Accordingly, the City agrees that it will conform to the following terms:

1. The City may occupy MCWD property for the work from 5/1/2024 to 11/1/2024.
2. After contract award, the City will notify MCWD and its engineer, Stantec, of the following coordination related to the construction at Cottageville Park, in which they may participate:
 - Preconstruction meeting
 - Any weekly meetings related to the contractor's schedule.
3. On the basis of the submitted plans, an MCWD erosion control permit is not required for the work. The City will conform the work to the ESC practices set forth on the project plans, including the following:
 - Area of vegetation removal is limited to the necessary excavation limits to complete the work.
 - The disturbance area will be surrounded with properly maintained silt fence or sediment control log to keep disturbed soil within that area.
 - Proper inlet protection will be maintained on all adjacent inlets near the disturbance areas and access route.
4. There are no other subsurface structures on the MCWD property proximate to the system. The City will protect all existing surface infrastructure and will repair or replace that infrastructure in the event of any damage.
5. The City will notify MCWD and Stantec 48 hours in advance of the following critical construction activities:
 - Installation of the pipe plug that is being retrofit to limit short circuiting.
 - Replacement and installation of the sand filter media.
 - Installation of access risers.
6. When the disturbance is complete, the City will install sod per specifications. This includes but is not limited to starter fertilizer, subgrade preparation and placement of topsoil, and maintenance. Before sodding, the City will remove all construction debris, rocks, and trash, and loosen topsoil to its full depth with a disc or harrow. The City will provide water for 30 days, or until MCWD acceptance, whichever later. The City will notify MCWD for restoration walkthrough.