Public Works Committee
Meeting Agenda
August 8, 2023 5:30 p.m.
Fillmore Conference Room – Thurber Building

1. August 8, 2023 / 5:30 p.m. Fillmore Conference Room - Thurber Community Building

2. City Engineer – Craig Britton:
   A. Bench Street Drainage Improvements – Pay App. #2.
   B. West Chatfield Drainage Improvement Update.
   C. 2023 Street Improvement Project Update & Pay App. #1.
   D. Hilltop Estates Property – Booster Pump Station, Stormwater Ponds and Water Tower.
   E. Hilltop Estates Sidewalk
   F. Status of traffic study requested of MNDOT – Highway 74.

3. Public Works Director – Brian Burkholder
   A. Retaining Wall Proposal – Avenue B
   B. Concrete repairs on water reservoir
   C. Water Conservation during drought

Public Works Committee Meeting July 10, 2023

Members Present: Councilors Paul Novotny and Mike Urban.
Members Absent: None
Others Present: Shane Fox, Brian Burkholder, Craig Britton, Joel Young

Enterprise Drive Rebate Program: Giesen reported that the rebate program that was put in place to encourage building on the lots along that street will expire in August and asked if the program will be renewed or if there is merit to extend the program. The committee discussed the value of the program, the practical aspects of earning the rebate, and determined that extending the program would be worth considering.

Pay Application $121,125 to Killmer Electric for setting the generators. The controls and some electronics are still enroute. Britton said that approximately half of the contract is still outstanding. The committee authorized recommendation to the city council for approval.

Traffic Study: Britton reported that MNDOT has said that they have yet to look at the request the City submitted in 2021. A contact at MNDOT indicated they will look at this soon.

Water Tower and retention pond property: These properties are still in the ownership of Hilltop Estates LLC. The ponds need to be cleaned out prior to the City taking over the property. Britton will continue talking with the property owner and will report back next month.

Sidewalk on Wisdom Ct.: Burkholder reported that the sidewalk has not been installed although the development agreement required it to be installed a few years ago. It was noted that a driveway will need to be cut out for the installation of the sidewalk. Britton will continue to talk with the developer about this issue.

City of Chatfield

Thurber Community Center • Chatfield Municipal Building
21 Second Street Southeast• Chatfield, Minnesota 55923 • 507-867-3810
www.ci.chatfield.mn.us

MEMORANDUM

TO: CHATFIELD CITY COUNCIL

FROM: CRAIG BRITTON

SUBJECT: BENCH STREET DRAINAGE IMPROVEMENT PROJECT – PAY REQUEST NO. 2

DATE: AUGUST 9, 2023

CC: **CITY ADMINISTRATOR, JOEL YOUNG**
SUPERINTENDENT OF CITY SERVICES, BRIAN BURKHOLDER

Action Requested: Recommend payment of pay application number 2 in the amount of $5,855.00. Payment includes the seeding and restoration of the disturbed areas of construction along with the reshaping of the drainage swale from the end of apron to the property line to the south. Pay application number 1 was processed in January in the amount of $92,458.50.

Background: Pearson Backhoe Service started work on the drainage improvement project in late October of last year. The storm sewer was installed prior to the end of the year and the restoration was completed in the spring of this year. The main project overrun in cost was due to additional fill that was brought in on the project in order to provide a more gradual slope on the south side of 7th Street and along the pipe north of 7th Street. The original contract amount was $92,133.50 and the total project cost to date is $98,313.50, $6,180 over the original contract amount. No additional work is anticipated on the project.

Please let me know if you have any questions.

Sincerely,

Craig Britton

PEARSON BACKHOE SERVICE INC
24330 Richland Rd.
St.Charles, MN 55972

Invoice

DATE	INVOICE #
7/12/2023	7379

BILL TO
City of Chatfield 21 2nd St SE Chatfield, MN 55923

P.O. NO.	TERMS
	Net 30

Date	ITEM	QUANTITY	DESCRIPTION	RATE	AMOUNT
5/1/2023	service	1	erosion control for Bench Street Project	5,075.00	5,075.00
	service	1	extra work from end of pipe going to property line, reshaping and seeding	780.00	780.00

Thank you for your business.

Total $5,855.00

City of Chatfield

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MEMORANDUM

TO: PUBLIC WORKS COMMITTEE

FROM: CRAIG BRITTON

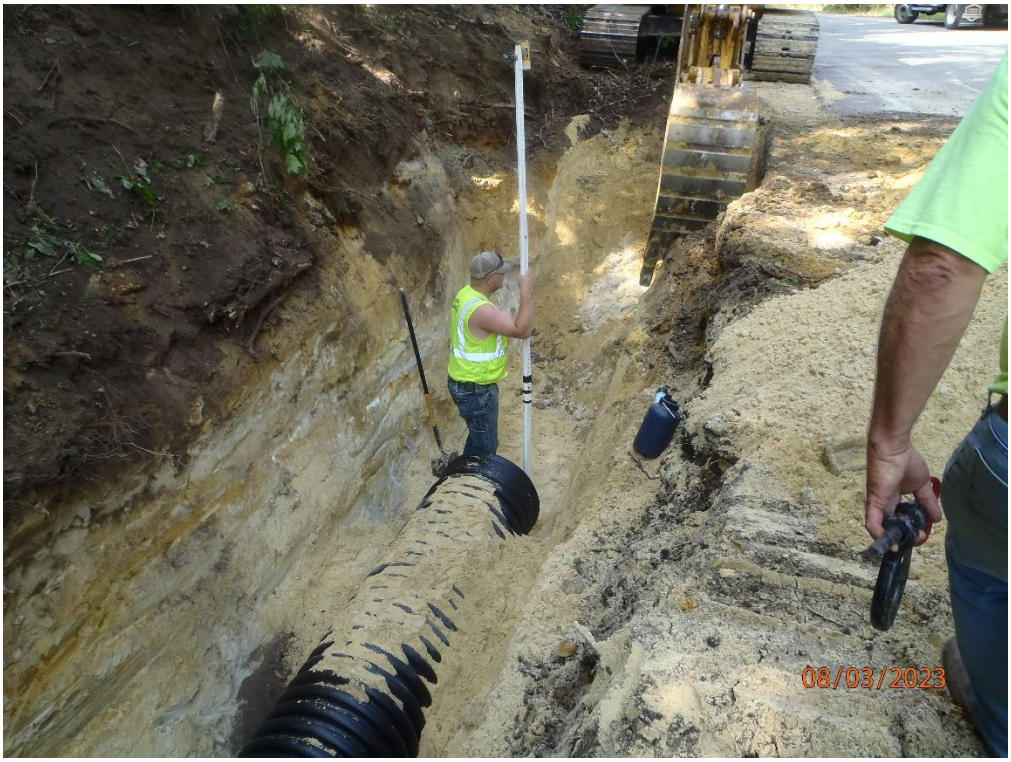
SUBJECT: WEST CHATFIELD DRAINAGE IMPROVEMENT PROJECT

DATE: AUGUST 10, 2023

CC: **CITY ADMINISTRATOR, JOEL YOUNG**
SUPERINTENDENT OF CITY SERVICES, BRIAN BURKHOLDER

Action Requested: No action required.

Update: Pearson Backhoe started work on the drainage improvement project in late July and as of today has all the pipe and structures installed on the project. Currently they're working on shaping up the disturbed areas and are planning to seed and hydromulch the areas as weather permits. Below are a couple of pictures from the job site.



As they were installing the storm sewer up Hill Street, they encountered rock excavation for approximately 60 ft. The picture above shows some of the rock (sandstone) on the edge of the trench.

Please let me know if you have any questions.

Thanks,

Craig Britton

City of Chatfield

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MEMORANDUM

TO:	CHATFIELD PUBLIC WORKS COMMITTEE AND CITY COUNCIL
FROM:	CRAIG BRITTON
SUBJECT:	2023 STREET IMPROVEMENT PROJECT – PAY APPLICATION 1
DATE:	AUGUST 10, 2023
CC:	**CITY ADMINISTRATOR, JOEL YOUNG AND SUPERINTENDENT OF CITY SERVICES, BRIAN BURKHOLDER**

Action Requested: Consideration of Pay Application #1 in the amount of $190,034.92 to Griffin Construction for work completed on the 2023 Street Improvement Project.

Background: Griffin Construction has submitted Pay Application #1 in the amount of $190,034.92 for work completed mainly on Prospect Street SE. Work completed includes the removal of the bituminous pavement and installation of the sanitary sewer, water main and services on Prospect Street SE. Underground work is expected to be completed on Prospect by August 16th at which time Griffin will begin installing storm sewer on Grand Street from Valley Street to the north end of Prospect Street. Once the underground work is completed at the intersection of Grand & Prospect crews will begin street construction on Prospect and on Grand from Valley to Prospect. The pay application is attached to this report. Below is a quick summary of the contract amount and proposed payment.

1. Contract Amount - $1,759,308.26
2. Pay Application 1 - $190,034.92
3. Retainage (5%) - $10,001.84
4. Balance to Finish - $1,559,271.50

Please let me know if you have any questions.

Sincerely,

Craig Britton

PARTIAL PAYMENT ESTIMATE

Pay Estimate 1

Name of Contractor:

Griffin Construction

Name of Owner:

City of Chatfield

Date of Substantial Completion:		Amount of Contract:		Dates of Estimate	
Original:	11/1/2023	Original:	$ 1,759,308.26	From:	07-10-23
Revised:	NA	Revised:	NA	To:	08-04-23

Widseth Project Number: 2022-11251

Description of Job: 2023 Street Improvement Project

ITEM NO.	ITEM DESCRIPTION	CONTRACT ITEMS				THIS PERIOD		TOTAL TO DATE	
		UNIT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
	BID SCHEDULE A. - GRAND, PROSPECT ST SE								
1	CONTRACTOR TESTING - DENSITY	L.S.	1	$4,550.00	$4,550.00	0.15	$682.50	0.15	$682.50
2	MOBILIZATION	L.S.	1	$68,520.00	$68,520.00	0.25	$17,130.00	0.25	$17,130.00
3	CLEARING	EACH	25	$335.00	$8,375.00	19	$6,365.00	19	$6,365.00
4	GRUBBING	EACH	25	$335.00	$8,375.00	6	$2,010.00	6	$2,010.00
5	SALVAGE SIGN	EACH	1	$50.00	$50.00	1	$50.00	1	$50.00
6	REMOVE SIGN	EACH	11	$50.00	$550.00	3	$150.00	3	$150.00
7	REMOVE MANHOLE (SANITARY)	EACH	11	$600.00	$6,600.00	4	$2,400.00	4	$2,400.00
8	REMOVE MANHOLE (STORM)	EACH	2	$600.00	$1,200.00	0	$0.00	0	
9	REMOVE CATCH BASIN	EACH	8	$500.00	$4,000.00	0	$0.00	0	
10	REMOVE GATE VALVE & BOX	EACH	7	$300.00	$2,100.00	0	$0.00	0	
11	REMOVE HYDRANT	EACH	4	$500.00	$2,000.00	0	$0.00	0	
12	REMOVE CURB & GUTTER	LIN FT	3665	$3.00	$10,995.00	1832	$5,496.00	1832	$5,496.00
13	REMOVE SEWER PIPE (STORM)	LIN FT	626	$15.00	$9,390.00	0	$0.00	0	
14	REMOVE SEWER PIPE (SANITARY)	LIN FT	1976	$6.00	$11,856.00	726.4	$4,358.40	726.4	$4,358.40
15	REMOVE PIPE CULVERT	LIN FT	32	$15.00	$480.00	0	$0.00	0	
16	SALVAGE RETAINING WALL	LIN FT	39	$25.00	$975.00	39	$975.00	39	$975.00
17	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	434	$4.65	$2,018.10	285	$1,325.25	285	$1,325.25
18	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	363	$3.60	$1,306.80	163	$586.80	163	$586.80
19	REMOVE CONCRETE FLUME	SQ YD	21	$12.50	$262.50	0	$0.00	0	
20	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	747	$8.00	$5,976.00	358	$2,864.00	358	$2,864.00
21	REMOVE BITUMINOUS PAVEMENT	SQ YD	7353	$2.75	$20,220.75	2205.9	$6,066.23	2205.9	$6,066.23
22	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	657	$8.00	$5,256.00	259	$2,072.00	259	$2,072.00
23	REMOVE CONCRETE SIDEWALK	SQ FT	281	$2.00	$562.00	0	$0.00	0	
24	COMMON EXCAVATION (EV) (P)	CU YD	3324	$15.40	$51,189.60	0	$0.00	0	
25	COMMON EXCAVATION (SUBGRADE) (EV)	CU YD	474	$15.40	$7,299.60	0	$0.00	0	
26	EXCAVATION SPECIAL (EXPLORATORY)	HOUR	24	$125.00	$3,000.00	1.5	$187.50	1.5	$187.50
27	GEOTEXTILE FABRIC TYPE V	SQ YD	10763	$1.70	$18,297.10	640	$1,088.00	640	$1,088.00
28	AGGREGATE BASE CLASS 5 MODIFIED	TON	7943	$18.15	$144,165.45	0	$0.00	0	

29	FULL DEPTH RECLAMATION	SQ YD	1671	$3.64	$6,082.44	1671	$6,082.44	1671	$6,082.44
30	TYPE SP 9.5 WEARING COURSE MIX (3,C)	TON	833	$102.69	$85,540.77	0	$0.00	0	
31	TYPE SP 12.5 WEARING COURSE MIX (3,C)	TON	1386	$99.42	$137,796.12	0	$0.00	0	
32	GRANULAR FOUNDATION AND/OR BEDDING	TON	380	$21.50	$8,170.00	35	$752.50	35	$752.50
33	6" PERF PVC PIPE DRAIN	LIN FT	3121	$20.33	$63,449.93	0	$0.00	0	
34	12" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	210	$66.40	$13,944.00	0	$0.00	0	
35	15" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	258	$73.35	$18,924.30	0	$0.00	0	
36	18" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT	35	$78.55	$2,749.25	0	$0.00	0	
37	21" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT	27	$87.79	$2,370.33	0	$0.00	0	
38	24" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT	958	$101.82	$97,543.56	0	$0.00	0	
39	27" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT	315	$127.75	$40,241.25	0	$0.00	0	
40	30" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT	72	$149.85	$10,789.20	0	$0.00	0	
41	MAINTENANCE OF SANITARY SEWER SERVICE	L.S.	1	$19,750.00	$19,750.00	0.15	$2,962.50	0.15	$2,962.50
42	CONNECT TO EXISTING SANITARY SEWER	EACH	3	$500.00	$1,500.00	2	$1,000.00	2	$1,000.00
43	CONNECT TO EXISTING STORM SEWER	EACH	1	$750.00	$750.00	0	$0.00	0	
44	CONNECT TO EXISTING MANHOLES	EACH	4	$1,000.00	$4,000.00	0	$0.00	0	
45	SANITARY SEWER SERVICE (4" PVC)	EACH	27	$1,690.00	$45,630.00	7	$11,830.00	7	$11,830.00
46	SANITARY SEWER SERVICE (6" PVC)	EACH	1	$1,860.00	$1,860.00	0	$0.00	0	
47	8" X 4" PVC WYE	EACH	27	$402.00	$10,854.00	10	$4,020.00	10	$4,020.00
48	8" X 6" PVC WYE	EACH	1	$472.00	$472.00	0	$0.00	0	
49	SANITARY SEWER INSPECTION	LIN FT	1975	$3.00	$5,925.00	0	$0.00	0	
50	8" PVC PIPE SEWER	LIN FT	1975	$57.14	$112,851.50	773.9	$44,220.65	773.9	$44,220.65
51	INSTALL WATER SERVICE SYSTEM (1")	EACH	27	$2,345.00	$63,315.00	5	$11,725.00	5	$11,725.00
52	INSTALL WATER SERVICE SYSTEM (2")	EACH	1	$4,930.00	$4,930.00	0	$0.00	0	
53	CONNECT TO EXISTING WATER MAIN	EACH	4	$1,500.00	$6,000.00	2	$3,000.00	2	$3,000.00
54	HYDRANT	EACH	4	$7,097.00	$28,388.00	0	$0.00	0	
55	ADJUST VALVE BOX	EACH	11	$275.00	$3,025.00	0	$0.00	0	
56	6" GATE VALVE & BOX	EACH	5	$2,935.00	$14,675.00	0	$0.00	0	
57	8" GATE VALVE & BOX	EACH	11	$3,735.00	$41,085.00	2	$7,470.00	2	$7,470.00
58	6" PVC WATER MAIN	LIN FT	98	$49.75	$4,875.50	0	$0.00	0	
59	8" PVC WATER MAIN	LIN FT	2288	$56.50	$129,272.00	280	$15,820.00	280	$15,820.00
60	DUCTILE IRON FITTINGS	POUND	1213	$16.50	$20,014.50	518	$8,547.00	518	$8,547.00
61	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	12	$2,900.00	$34,800.00	0	$0.00	0	
62	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	EACH	11	$3,515.00	$38,665.00	0	$0.00	0	
63	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH	4	$5,068.00	$20,272.00	0	$0.00	0	
64	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	EACH	3	$5,795.00	$17,385.00	0	$0.00	0	
65	ADJUST FRAME AND RING CASTING	EACH	21	$575.00	$12,075.00	0	$0.00	0	
66	CONSTRUCT SANITARY MANHOLE	EACH	9	$3,547.00	$31,923.00	5	$17,735.00	5	$17,735.00
67	CONSTRUCT SANITARY MANHOLE (LF)	LIN FT	32.86	$300.00	$9,858.00	20.3	$6,090.00	20.3	$6,090.00
68	4" CONCRETE WALK	SQ FT	214	$12.50	$2,675.00	0	$0.00	0	
69	CURB AND GUTTER DESIGN B624	LIN FT	3839	$22.40	$85,993.60	0	$0.00	0	
70	CURB AND GUTTER DESIGN B624 (MOD.)	LIN FT	5	$50.00	$250.00	0	$0.00	0	
71	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	894	$72.00	$64,368.00	0	$0.00	0	

72	TRUNCATED DOMES	SQ FT	10	$57.00	$570.00	0	$0.00	0	
73	TRAFFIC CONTROL	L.S.	1	$4,950.00	$4,950.00	0.5	$2,475.00	0.5	$2,475.00
74	INSTALL SIGN TYPE C (INCLUDE SIGN POST)	EACH	3	$375.00	$1,125.00	0	$0.00	0	
75	FURNISH TYPE C SIGN	EACH	3	$150.00	$450.00	0	$0.00	0	
76	FURNISH TYPE D SIGN (STREET NAME SIGNS)	EACH	16	$115.00	$1,840.00	0	$0.00	0	
77	INSTALL SALVAGED SIGN	EACH	1	$250.00	$250.00	0	$0.00	0	
78	EROSION CONTROL SUPERVISOR	L.S.	1	$500.00	$500.00	0	$0.00	0	
79	STORM DRAIN INLET PROTECTION	EACH	21	$250.00	$5,250.00	10	$2,500.00	10	$2,500.00
80	SILT FENCE, TYPE MS	LIN FT	871	$2.10	$1,829.10	0	$0.00	0	
81	COMMON TOPSOIL BORROW (LV)	CU YD	598	$25.00	$14,950.00	0	$0.00	0	
82	STABILIZED CONSTRUCTION EXIT	L.S.	1	$1,500.00	$1,500.00	0	$0.00	0	
83	SEEDING	ACRE	1.14	$1,003.52	$1,144.01	0	$0.00	0	
84	FERTILIZER TYPE 3	POUND	342	$1.00	$342.00	0	$0.00	0	
	TOTALS =				$ 1,759,308.26		$ 200,036.76		$ 200,036.76

		THIS PERIOD	TOTAL TO DATE
AMOUNT EARNED		$ 200,036.76	$ 200,036.76
AMOUNT RETAINED	5%	$ 10,001.84	$ 10,001.84
PREVIOUS PAYMENTS		$ -	$ -
AMOUNT DUE		$ 190,034.92	$ 190,034.92

Estimated Percentage of Job Completed: 11%
Contractor's Construction Progress: On Schedule

CONTRACTOR'S CERTIFICATION:

The undersigned Contractor certifies that to the best of their knowledge, information and belief the work covered by this payment estimate has been completed in accordance with the contract documents, that all amounts have been paid by the Contractor for work for which previous payment estimates were issued and payments received from the Owner, and that current payment shown herein is now due.

Contractor: Griffin

By: _____

ENGINEER'S CERTIFICATION:

The undersigned certifies that the work has been carefully inspected and to the best of their knowledge and belief, the quantities shown in this estimate are correct and the work has been performed in accordance with the contract documents.

Engineer:

By: _____

Date: 8/9/2023

Date: 8/9/2023

APPROVED BY OWNER:

Owner: City of Chatfield

By: _____

Date: _____

City of Chatfield

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21 Second Street Southeast• Chatfield, Minnesota 55923 • 507-867-3810
www.ci.chatfield.mn.us

MEMORANDUM

TO: PUBLIC WORKS COMMITTEE

FROM: CRAIG BRITTON

SUBJECT: HILLTOP ESTATES PROPERTIES – BOOSTER PUMP STATION, STORMWATER PONDS AND WATER TOWER

DATE: AUGUST 10, 2023

CC: **CITY ADMINISTRATOR, JOEL YOUNG**
SUPERINTENDENT OF CITY SERVICES, BRIAN BURKHOLDER

Action Requested: No action required.

Update: I reviewed with the developer the ownership of the properties where the booster pump station, water tower and stormwater ponds are located and the consensus is that the ownership of the properties where there is public infrastructure should be transferred over to the City. The developer is looking at the lot lines around the booster pump station and will submit something for the City to review prior to the transfer of ownership.

Please let me know if you have any questions.

Thanks,

Craig Britton

City of Chatfield

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MEMORANDUM

TO: PUBLIC WORKS COMMITTEE

FROM: CRAIG BRITTON

SUBJECT: HILLTOP ESTATES SIDEWALK PLAN

DATE: AUGUST 10, 2023

CC: **CITY ADMINISTRATOR, JOEL YOUNG**
SUPERINTENDENT OF CITY SERVICES, BRIAN BURKHOLDER

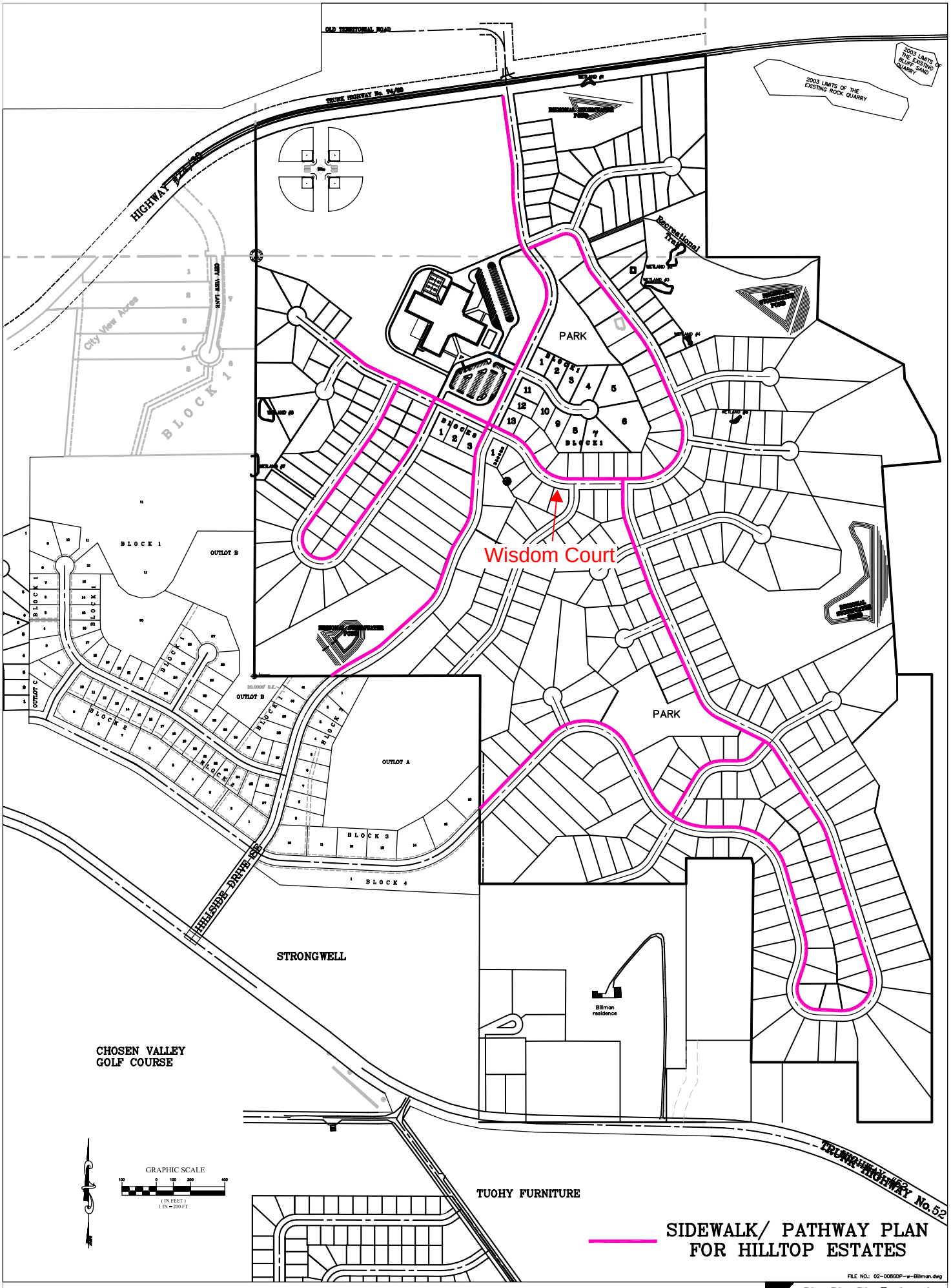
Action Requested: No action required.

Update: As part of the Hilltop Estates Subdivision, sidewalk is intended to be installed per the sidewalk plan included in this report. There was a house on the north side of Wisdom Court where the driveway was poured without the sidewalk included. I spoke with the developer and the developers representative and let them know that the sidewalk would need to be installed across the length of the property. We don't yet have a timeframe on when this would be completed, but they're in agreement that the sidewalk needs to be installed per the sidewalk plan.

Please let me know if you have any questions.

Thanks,

Craig Britton



SIDEWALK/ PATHWAY PLAN FOR HILLTOP ESTATES

GGG Engineering Surveying INC. Planning
14070 Hwy 52 SE
Chatfield, MN 55923
Ph. 507-867-1666
Fax 507-867-1665

INTEROFFICE MEMORANDUM

TO: Public Works Committee

FROM: Brian Burkholder, SCS

SUBJECT: Ave B retaining Wall Replacement Project

DATE: 7/31/2023

Action Requested: To consider the replacement of the 3 retaining walls on Ave B.

Background: Since we last discussed this project at the last committee meeting, Craig and I met at the 3 locations and then Craig drew up specs for each. I sent them out to 3 contractors for quotes.

I received 3 quotes: Distinctive Lawn & Landscape Inc. (147,103), DeCook Landscaping ($156,030, and Ruskell Outdoor Services, Inc. ($393,336). I did reach out to Greg to make sure we were on the same page since he is over double the lowest quote.

I would really like to get this project completed yet this year if at all possible.

Thank you for your time,
Brian Burkholder

Distinctive Lawn & Landscape, Inc
26208 300TH ST
CHATFIELD, MN 55923-4001
507-867-3935
office@distinctive-landscape.com
distinctive-landscape.com

Estimate

ADDRESS
Mr. Brian Burkholder
City of Chatfield

ESTIMATE # 6080
DATE 07/20/2023
EXPIRATION DATE 08/20/2023

DATE	DESCRIPTION	QTY	RATE	AMOUNT
	Aveenue B Retaining Walls			
Retaining wall	Forix Precast 36" Wall Block	293	142.56	41,770.08
Retaining wall	Forix Precast 36" Top Wall Block	136	142.56	19,388.16
Retaining wall	Forix Precast End Wall Block	16	142.56	2,280.96
Retaining wall	Base Gravel, cubic yards	110	34.00	3,740.00
Retaining wall	Drainage Rock, cubic yards	110	34.00	3,740.00
Retaining wall	4"x100' Perforated Drain Tile	6	85.17	511.02
Retaining wall	4" Grated Drain Tile Caps	6	8.57	51.42
Retaining wall	Labor & Equipment	1	57,814.00	57,814.00
	Notes:			
	-20% due at time of product order			
	-Additional 30% due upon commencement of work.			
	-Remaining balance due upon completion of work			
	-Block are not sealed or colored			
	-Permits not included			
	-Moving and holding utilities/poles by others			

Thank you for the opportunity to provide you with an estimate.

SUBTOTAL	129,295.64
TAX	0.00
TOTAL	**$129,295.64**

Total - $147,013

Accepted By

Accepted Date

Distinctive Lawn & Landscape, Inc
26208 300TH ST
CHATFIELD, MN 55923-4001
507-867-3935
office@distinctive-landscape.com
distinctive-landscape.com

Estimate

ADDRESS
Mr. Brian Burkholder
City of Chatfield

ESTIMATE # 6081
DATE 07/20/2023
EXPIRATION DATE 08/20/2023

DATE	DESCRIPTION	QTY	RATE	AMOUNT
	Avenue B Retaining Wall Demo/Excavation			
Retaining wall	North Wall Excavation/Demo	431	15.00	6,465.00
Retaining wall	Middle Wall Excavation/Demo	213	16.00	3,408.00
Retaining wall	South Wall Excavation	95	16.00	1,520.00
	Notes:			
	-No permits included			
	-Moving utilities and holding power poles by others			

Thank you for the opportunity to provide you with an estimate.

TOTAL **$11,393.00**

Accepted By

Accepted Date

Distinctive Lawn & Landscape, Inc
26208 300TH ST
CHATFIELD, MN 55923-4001
507-867-3935
office@distinctive-landscape.com
distinctive-landscape.com

Estimate

ADDRESS
City of Chatfield
Brian Burkholder

ESTIMATE # 6079
DATE 07/20/2023
EXPIRATION DATE 08/20/2023

DATE		DESCRIPTION	QTY	RATE	AMOUNT
		Seeding/Erosion Control For Ave B Project			0.00
	Erosion Control	Erosion Blanket	8	75.00	600.00
	seeding	Grass Seed, lbs	50	4.25	212.50
	Landscaping	Topsoil, cubic yards (may be able to reuse what comes out during excavation so may not need).	110	30.00	3,300.00
		Optional item during construction:			
	Erosion Control	Sediment Log, ft.	590	3.75	2,212.50

Thank you for the opportunity to provide you with an estimate.

TOTAL **$6,325.00**

Accepted By

Accepted Date

PO Box 69
Byron, MN 55920

Cell: 507-208-1949
brandon@decooklandscaping.com

Estimate

Date	Estimate #
6/26/2023	3049

Name / Address	Ship To
City of Chatfield 21 Second Street SE Chatfield, MN 55923	Avenue B Wall Project

Description	Qty	Total
Excavation of existing walls, dig out for base and new wall -Existing block hauled out and disposed of -Fill material hauled out to city of Chatfield dump site -Any underground or above ground utilities that cannot be worked around such as sewer lines, power poles, water shut offs will be brought to the attention of the city and worked out accordingly to keep installation moving as well as final invoice adjustments as needed.	1	7,200.00
Retaining wall -Forix -283 36 inch deep units -136 top units -Delivery -Installation -No cap -No half block	1,943	139,896.00
Limestone 1.5 Inch Screened -Drainage Rock	142	3,834.00
Fabric	2	1,200.00
Tile pop-up -Behind all walls -Rodent cap on ends	3	450.00
Dirt, Pulverized (Y) -In front and behind new walls	50	2,250.00
Final grade, prepare for seed/sod	1	1,200.00

**** DO NOT PAY OFF ESTIMATE, YOU WILL RECEIVE SEPARATE INVOICE ****

Subtotal	
Sales Tax (7.375%)	
Signature	**Total**

PO Box 69
Byron, MN 55920

Cell: 507-208-1949
brandon@decooklandscaping.com

Estimate

Date	Estimate #
6/26/2023	3049

Name / Address	Ship To
City of Chatfield 21 Second Street SE Chatfield, MN 55923	Avenue B Wall Project

Description	Qty	Total
Options for yard repair -Sod- $3000.00 -Seed, Blanket, Fert.- $1950.00 ***DeCook Landscaping is not responsible for seed germination, sod care or washouts after installation.*** ***This is an estimate only, any unforseen additional work will be billed accordingly***		

**** DO NOT PAY OFF ESTIMATE, YOU WILL RECEIVE SEPARATE INVOICE ****

Subtotal	$156,030.00
Sales Tax (7.375%)	$0.00
Total	**$156,030.00**

Signature _____

Ruskell Outdoor Services, Inc.
10045 170th Avenue SE
Chatfield, MN 55923
507.867.3988

Proposal

Date 7/29/2023

Estimate # 6264

ruskelloutdoorservices@gmail.com

www.ruskelloutdoorservices.com

City of Chatfield
21 SE 2nd Street
Chatfield, MN 55923

Qty	Description	Rate	Total
	Ave B Wall Project		
	North Wall		
1	Ledgerock Retaining Wall System - Quarried Limestone or North Shore Boulder Face Pattern. Minimum of 12" compacted gravel base. 4" socked draintile at footing of base. Minimum of 18" drainage rock behind wall.	251,428.32	251,428.32
1	Preparation, Apply Starter Fertilizer, Seed, & Erosion Control Blanket	6,006.78	6,006.78
	Subtotal		257,435.10
	Middle Wall		
1	Ledgerock Retaining Wall System - Quarried Limestone or North Shore Boulder Face Pattern. Minimum of 12" compacted gravel base. 4" socked draintile at footing of base. Minimum of 18" drainage rock behind wall.	90,604.80	90,604.80
1	Preparation, Apply Starter Fertilizer, Seed, & Erosion Control Blanket	3,140.80	3,140.80
	Subtotal		93,745.60
	South Wall		
1	Ledgerock Retaining Wall System - Quarried Limestone or North Shore Boulder Face Pattern. Minimum of 12" compacted gravel base. 4" socked draintile at footing of base. Minimum of 18" drainage rock behind wall.	40,772.16	40,772.16

This is an estimate on your project, if extra costs are incurred, you will be charged accordingly. Terms are 1/2 down, cash upon compeletion. In the event of defalt and referral to an attorney, or collection agency, purchaser agrees to pay all cost of collection expense, including court costs and reasonable attorney fees. Prices good for 30 days from the date on top. There is no warranty on limestone boulders.

Subtotal

Sales Tax (0.0%)

Total

Signature Date

Signature Date

Ruskell Outdoor Services, Inc.
10045 170th Avenue SE
Chatfield, MN 55923
507.867.3988

Proposal

Date 7/29/2023
Estimate # 6264
ruskelloutdoorservices@gmail.com
www.ruskelloutdoorservices.com

City of Chatfield
21 SE 2nd Street
Chatfield, MN 55923

Qty	Description	Rate	Total
1	Preparation, Apply Starter Fertilizer, Seed, & Erosion Control Blanket	1,413.36	1,413.36
	Subtotal		42,185.52

This is an estimate on your project, if extra costs are incurred, you will be charged accordingly. Terms are 1/2 down, cash upon compeletion. In the event of defalt and referral to an attorney, or collection agency, purchaser agrees to pay all cost of collection expense, including court costs and reasonable attorney fees. Prices good for 30 days from the date on top. There is no warranty on limestone boulders.

Subtotal	$393,366.22
Sales Tax (0.0%)	$0.00
Total	$393,366.22

Signature Date

Signature Date

INTEROFFICE MEMORANDUM

TO: Public Works Committee

FROM: Brian Burkholder, SCS

SUBJECT: Concrete Tank Repairs

DATE: 8/2/2023

Action Requested: To further discuss crack repairs on the lid of the concrete tank on OTR.

Background: During the 2022 Water Project, we discussed completing repairs needed on the concrete inground tank. We concluded that we would eliminate the project and plan for a new tank install and eliminating.

With that said, our concern is how long are we willing to take any risk before the tank needs the repairs.

Craig and I discussed and thought we should get a couple quotes and to possible move forward with some temporary work.

I have attached two quotes from Osseo and Champion Coating. Osseo is a basic grinding and grout repair not giving an extended life expectancy.

Champion gave two options. Option 1-repair cracks on wall, top of tank including center ring and to also seal the entire top to last 10 plus years. Option 2-repairs cracks on wall, top of tank and repair ring and not to include the entire surface.

Thank you for your time,
Brian Burkholder

Brian Burkholder

From: Travis Johnson <tjohnsoncoatings@gmail.com>
Sent: Friday, June 23, 2023 2:38 PM
To: Gary Johnson; Brian Burkholder; Craig Britton
Subject: Chatfield Ground Storage Tank
Attachments: CIM-EMT-Primer-TDS-1.pdf; CIM-1061-TDS.pdf; CIM-1000-TDS.pdf; MasterSeal-Traffic-1500-Formerly-Sonoguard-System-Product-Data-2010662.pdf; Concrete-Crack-Joint-Reinforcing-Detail.pdf

Follow Up Flag: Flag for follow up
Flag Status: Flagged

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Brian and Craig

I have quoted these two different ways. Option 1 will waterproof the entire top of your tank and prevent any possible future freeze thaw spalling and will bridge any future cracks. Option 2 will just fix any current cracks. I've Attached all the applicable data sheets and Details. Both of these options should last for 10 plus years given no major structural changes. If you have any questions do not hesitate to contact me. Appreciate the opportunity to provide a quote for this.

Option 1

Wall to lid Joint. (Detail Attached)
- Sandblast 6" each direction of joint.
- Remove any Loose Caulking
- Insert backer Rod into Joint
- Prime 6" each direction of Joint with CIM EMT Primer (Data Sheet Attached)
- Trowel on 60 Mils of CIM Trowel Grade 1000 and imbed 6" wide scrim cloth. (Data Sheet Attached)
- Apply 60 Mils of CIM 1061 over the top of the CIM1000 and Scrim cloth. (Data Sheet Attached)

Top of Tank
- Sand Blast Entire Surface and remove any unsound concrete.
- Repair any spalled concrete with Epoxy Mortar.
- Apply bond breaker over the top of the circular shaped crack towards center.
- Apply MasterSeal M 200 at 25 mils to entire tank top. (Data Sheet Attached) embed 6" wide scrim cloth on circular crack.
- Apply finish coat of MasterSeal TC225 at 25 Mils to the entire tank top (Data Sheet attached)

Total Price $33,700.00

Option 2

Wall to lid Joint (Same as Option 1)

18' Diameter Circular crack
- Sand Blast 6" each side of crack and repair spalled concrete with epoxy Mortar .

Apply Bond breaker tape over crack
Apply a 12" strip of MasterSeal M200 at 25 mils with 6" wide scrim cloth embedded. (Data Sheet attached)
Apply 25 Mils of TC225 over the top of scrim cloth and M200 (Data Sheet attached)

Directional Cracks Approximately 740LF

SandBlast 3" on each side Crack
Apply a 6" strip of MasterSeal M200 at 25 mils (Data Sheet attached)
Apply 25 Mils of TC225 over the top M200 (Data Sheet attached)

Total Price $22,900.00

Travis Johnson

Field Superintendent

Champion Coatings Inc.
19720 Vergus Ave.
Jordan MN 55352

Cell: 612-839-4890

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Travis Johnson

Field Superintendent

Champion Coatings Inc.
19720 Vergus Avenue
Jordan MN 55352

Cell: 612-839-4890

C.I.M. Industries Inc.
A Chase Corporation Company

CIM EMT PRIMER

EPOXY PRIMER

OVERVIEW

DESCRIPTION CIM EMT Primer is a two component solvent free epoxy coating formulated as a primer for porous surfaces such as concrete.

ADVANTAGES

- Moisture tolerant. Improves adhesion to surfaces where a dry condition cannot be acheived.
- Penetrates concrete surfaces in order to help limit outgassing.
- Solvent free formula is ideal for use in environments sensitive to solvent odors.
- Can be used as an alternate to CIM 61TN Epoxy Primer.
- VOC Compliant.

SURFACE PREPARATION

GENERAL: Substrates must be **clean and surface dry** with no oils, grease or loose debris. Perform adhesion tests to confirm adequacy of surface preparation. See C.I.M. Industries' specific substrate Instruction Guide for more information.

CONCRETE: ICRI-CSP 4-6 surface profile exposing aggregate. Concrete must exhibit minimum 3,000 psi compressive strength and be free of release agents and curing compounds. The substrate must be clean, surface dry and free of contaminates.

STEEL: Minimum 3 mil profile.
Immersion service – SSPC-SP10 / NACE No. 2 Near White Blast.
Non-Immersion service – SSPC-SP6 / NACE No. 3 Commercial Blast.

OTHER METALS: SSPC-SP1 solvent clean and abrade substrate to roughen and degloss the surface.

WOOD: Substrate must be clean, surface dry and free of surface contamination.

COLOR CIM EMT Resin is off white.
CIM EMT Hardener is semi-transparent brown.
Mixed and cured: clear appearance on concrete.

MIXING RATIO 2 Parts Resin: 1 Part Hardener by Volume

SOLIDS BY VOLUME 97% mixed (1556 mil x sq ft/gal)

DENSITY CIM EMT Resin approximately 12.5 lbs/gal
CIM EMT Hardener approximately 8.4 lbs/gal

PERMEABILITY ASTM E 96 Procedure B 0.29 perms
Reduction in Permeability on concrete >99%

VOC 36 g/l (0.3 lb/gal)

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C.I.M. Industries Inc.
A Chase Corporation Company

CIM EMT Primer

EPOXY PRIMER

GENERAL APPLICATION INFORMATION

FOR PROFESSIONAL USE ONLY.

PRECAUTIONS Mixing equipment must be DRY. Standing water and excess moisture must be removed from the surface before the material is applied. Do not apply in wet weather, when rain is imminent or when the surface may become wet before the coating is dry. Strictly observe mixing, induction times and substrate temperature requirements.

TEMPERATURE **Throughout the curing period, the surface should be minimum 50°F (10°C) AND minimum 5°F (3°C) above the dew point. Contact C.I.M. Industries for lower temperature application.**

EQUIPMENT Squeegee, Brush, or Roller ($\frac{3}{8}$" or $\frac{1}{2}$" synthetic nap).

POT LIFE About 45 minutes at 77°F (25°C).

MIXING **DO NOT HAND MIX.** Use a power mixer. Consistency should be uniform and smooth with no settled pigments remaining at the bottom. Pour hardener into the pail containing the resin and thoroughly mix for three minutes. When temperatures are below 50°F, allow a 15 minute induction time of the mixed primer before application.

The two components must be combined in proper ratios for this product to cure properly. Failure to adequately mix, to achieve a uniform dispersion, or failure to blend to the proper volume proportion will result in a failure of the coating to perform adequately.

DO NOT THIN. Allow cold material to warm to room temperature before applying. If needed warm each component before mixing to lower viscosity. Do not heat containers above 120°F.

CONTACT C.I.M. INDUSTRIES FOR SPECIFIC RECOMMENDATIONS AND INSTRUCTION GUIDES.
www.cimindustries.com

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C.I.M. Industries Inc.
A Chase Corporation Company

CIM EMT Primer
EPOXY PRIMER

GENERAL APPLICATION INFORMATION (Continued)

APPLICATION

PRIMER: Apply CIM EMT Primer at a coverage rate of **15 to 20 wet mils** per coat. On damp surfaces the minimum coating thickness should not be less than 15 mils in any location.When coating porous substrates apply primer when the substrate is in a temperature declining mode and not in direct sunlight. A uniform coating free of holidays or pinholes is necessary to minimize outgassing effects during the application of the CIM coating to porous surfaces such as concrete. Surfaces may require additional coats to achieve a pinhole free application.

RECOMMENDED COVERAGE 100 sq. ft./gal. (about 16 wet mils theoretical). Irregular surfaces, waste, spillage, and application technique effect actual coverage.

CIM COATING: Allow CIM EMT Primer to cure at least 4 hours at 70°F (21°C). Failure to allow sufficient time may result in poor adhesion between CIM and primer. The cured epoxy primer should appear clear and glossy. If a milky, hazy, or oily film is present on the epoxy primer do not apply subsequent coats and contact C.I.M. Industries for repair recommendations. These conditions can occur if the epoxy is exposed to moisture soon after application. Prior to CIM coating application, check for the presence of amine blush by testing the pH of the cured epoxy surface. The pH should be 7-8. If the pH is higher than 8, solvent wipe with methyl ethyl ketone until the pH is within the recommended range. Application of CIM coating to epoxy primer with a high pH will result in poor adhesion.

When applied to porous surfaces, CIM EMT Primer will greatly reduce the effects of outgassing, but it may not completely prevent the occurrence. CIM coatings and primer should be applied following C.I.M.'s published written instructions including application of the coating when substrate temperature is declining.

RECOATING Minimum/Maximum recoat is 4hrs/48hrs @ 70°F.

Allow at least 4 hours between coats or applying a CIM coating or lining. If more than 48 hours have passed since the application of CIM EMT Primer, or the CIM EMT Primer is otherwise contaminated use one of the following procedures:

1. Test surface for pH and check for contaminates. Solvent wipe with methyl ethyl ketone to clean surface and reapply CIM EMT Primer if within 30 days.
2. Test surface for pH and check for contaminates. Solvent wipe with methyl ethyl ketone to clean surface. Abrade the existing CIM EMT Primer. Apply CIM VOC Compliant Bonding Agent and apply CIM coating or lining. If the CIM EMT Primer is damaged during abrading. An additional application of Primer may be necessary to insure a monolithic primer application.

CLEAN UP Clean all equipment immediately after use with xylene or MEK.

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C.I.M. Industries Inc.
A Chase Corporation Company

CIM EMT Primer

EPOXY PRIMER

SHIPPING, STORAGE AND SAFETY DATA

SAFETY INFORMATION This product contains ingredients which are considered to be hazardous. Adequate health and safety precautions should be observed during storage, handling, application and clean-up. Refer to C.I.M. Industries' Material Safety Data Sheets for further details regarding the safe use of this product.

PACKAGING CIM EMT Epoxy Primer is packaged in 3 gallon units consisting of 2 gallons of CIM EMT Resin and 1 gallon of CIM EMT Hardener. Proper volumes of each must be mixed thoroughly prior to application.

SHIPPING	**CIM EMT Resin**	**CIM EMT Hardener**
Weights		
3.0 gallon units	29 lbs/pail (2 gal)	36 lbs/box (4-1 gal cans)
Properties		
Flash Point	>300°F (149°C)	>210°F (99°C)
Shipping Name		Amines liquid, Corrosive, n.o.s.
DOT Class	Not Regulated	Class 8, UN2735,PGIII
STORAGE		
Temperature	40°F to 110°F (5°C to 43°C)	40°F to 110°F (5°C to 43°C)
Shelf Life	1 year	1 Year

THE INFORMATION PRESENTED IN THIS PUBLICATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

CONTACT C.I.M. INDUSTRIES FOR CURRENT INFORMATION.

FOR PROFESSIONAL USE ONLY.

www.cimindustries.com

C.I.M. Industries Inc.
A Chase Corporation Company

Tel: (800) 543-3458
Web site: www.cimindustries.com

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C.I.M. Industries Inc.
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CIM EMT PRIMER

EPOXY PRIMER

OVERVIEW

DESCRIPTION CIM EMT Primer is a two component solvent free epoxy coating formulated as a primer for porous surfaces such as concrete.

ADVANTAGES

- Moisture tolerant. Improves adhesion to surfaces where a dry condition cannot be acheived.
- Penetrates concrete surfaces in order to help limit outgassing.
- Solvent free formula is ideal for use in environments sensitive to solvent odors.
- Can be used as an alternate to CIM 61TN Epoxy Primer.
- VOC Compliant.

SURFACE PREPARATION

GENERAL: Substrates must be **clean and surface dry** with no oils, grease or loose debris. Perform adhesion tests to confirm adequacy of surface preparation. See C.I.M. Industries' specific substrate Instruction Guide for more information.

CONCRETE: ICRI-CSP 4-6 surface profile exposing aggregate. Concrete must exhibit minimum 3,000 psi compressive strength and be free of release agents and curing compounds. The substrate must be clean, surface dry and free of contaminates.

STEEL: Minimum 3 mil profile.
Immersion service – SSPC-SP10 / NACE No. 2 Near White Blast.
Non-Immersion service – SSPC-SP6 / NACE No. 3 Commercial Blast.

OTHER METALS: SSPC-SP1 solvent clean and abrade substrate to roughen and degloss the surface.

WOOD: Substrate must be clean, surface dry and free of surface contamination.

COLOR CIM EMT Resin is off white.
CIM EMT Hardener is semi-transparent brown.
Mixed and cured: clear appearance on concrete.

MIXING RATIO 2 Parts Resin: 1 Part Hardener by Volume

SOLIDS BY VOLUME 97% mixed (1556 mil x sq ft/gal)

DENSITY CIM EMT Resin approximately 12.5 lbs/gal
CIM EMT Hardener approximately 8.4 lbs/gal

PERMEABILITY ASTM E 96 Procedure B 0.29 perms
Reduction in Permeability on concrete >99%

VOC 36 g/l (0.3 lb/gal)

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C.I.M. Industries Inc.
A Chase Corporation Company

CIM EMT Primer
EPOXY PRIMER

GENERAL APPLICATION INFORMATION (Continued)

APPLICATION

PRIMER: Apply CIM EMT Primer at a coverage rate of **15 to 20 wet mils** per coat. On damp surfaces the minimum coating thickness should not be less than 15 mils in any location.When coating porous substrates apply primer when the substrate is in a temperature declining mode and not in direct sunlight. A uniform coating free of holidays or pinholes is necessary to minimize outgassing effects during the application of the CIM coating to porous surfaces such as concrete. Surfaces may require additional coats to achieve a pinhole free application.

RECOMMENDED COVERAGE 100 sq. ft./gal. (about 16 wet mils theoretical). Irregular surfaces, waste, spillage, and application technique effect actual coverage.

CIM COATING: Allow CIM EMT Primer to cure at least 4 hours at 70°F (21°C). Failure to allow sufficient time may result in poor adhesion between CIM and primer. The cured epoxy primer should appear clear and glossy. If a milky, hazy, or oily film is present on the epoxy primer do not apply subsequent coats and contact C.I.M. Industries for repair recommendations. These conditions can occur if the epoxy is exposed to moisture soon after application. Prior to CIM coating application, check for the presence of amine blush by testing the pH of the cured epoxy surface. The pH should be 7-8. If the pH is higher than 8, solvent wipe with methyl ethyl ketone until the pH is within the recommended range. Application of CIM coating to epoxy primer with a high pH will result in poor adhesion.

When applied to porous surfaces, CIM EMT Primer will greatly reduce the effects of outgassing, but it may not completely prevent the occurrence. CIM coatings and primer should be applied following C.I.M.'s published written instructions including application of the coating when substrate temperature is declining.

RECOATING Minimum/Maximum recoat is 4hrs/48hrs @ 70°F.

Allow at least 4 hours between coats or applying a CIM coating or lining. If more than 48 hours have passed since the application of CIM EMT Primer, or the CIM EMT Primer is otherwise contaminated use one of the following procedures:

1. Test surface for pH and check for contaminates. Solvent wipe with methyl ethyl ketone to clean surface and reapply CIM EMT Primer if within 30 days.
2. Test surface for pH and check for contaminates. Solvent wipe with methyl ethyl ketone to clean surface. Abrade the existing CIM EMT Primer. Apply CIM VOC Compliant Bonding Agent and apply CIM coating or lining. If the CIM EMT Primer is damaged during abrading. An additional application of Primer may be necessary to insure a monolithic primer application.

CLEAN UP Clean all equipment immediately after use with xylene or MEK.

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C.I.M. Industries Inc.
A Chase Corporation Company

CIM 1000

HIGH PERFORMANCE COATINGS AND LININGS

OVERVIEW

DESCRIPTION CIM 1000 is a liquid applied urethane coating that cures in hours to form a tough elastomeric coating that adheres to most substrates, forming a chemical and abrasion resistant barrier for waterproofing, corrosion protection, and containment of water and most aqueous chemicals.

ADVANTAGES CIM 1000 has over 30 years of proven performance in demanding environments. It remains flexible and resilient and provides exceptional service in a broad range of applications.

- Ideal for coating concrete.
- Forms a tough elastomeric liner able to bridge cracks.
- Tested to ANSI 118.10-199, "Standard Specification for Load Bearing, Bonded, Waterproof Membrane for Thin-Set Ceramic Tile and Dimension Stone Installation".
- Impervious to water and most aqueous chemicals, providing a long lasting tank and pond liner.
- Asphalt extended urethane formula provides superior wear and weatherability for parking decks and containment areas.
- Adheres to and bridges between common construction materials such as concrete, steel and other metals, asphalt pavement, glass, wood, and most coatings.
- Environmentally sound, complying with the toughest VOC regulations.
- Can be repaired when damaged.
- Excellent abrasion resistance for severe wear applications.
- UV stable.
- Liquid, two-component urethane can be applied to complex shapes, multiple penetrations or to most geotextiles.

SURFACE PREPARATION

GENERAL: Substrates must be **clean and dry** with no oils, grease or loose debris. CIM Bonding Agent is recommended on all non-porous substrates. Perform adhesion tests to confirm adequacy of surface preparation. See C.I.M. Industries' specific substrate Instruction Guide for specific guidelines.

CONCRETE: ICRI-CSP 4-6 surface profile exposing aggregate. Concrete must exhibit minimum 3,000 psi compressive strength and be free of release agents and curing compounds. The substrate must be clean and dry (see CIM Instruction Guide IG-2), and free of contaminates.

STEEL: Minimum 3 mil profile.
Immersion service – SSPC-SP10 / NACE No. 2 Near White Blast.
Non-Immersion service – SSPC-SP6 / NACE No. 3 Commercial Blast.
Use CIM Bonding Agent for greater adhesion.

OTHER METALS: SSPC-SP1 solvent clean and abrasive blast to roughen and degloss the surface. Use CIM Bonding Agent for greater adhesion.

GLASS: Thoroughly clean. CIM Bonding Agent must be used for increased adhesion. For immersion service roughen the surface.

WOOD: Substrate must be clean, dry and free of surface contamination.

PREVIOUS COATINGS AND LININGS: CIM 1000 may be applied over some existing coatings and linings and achieve acceptable performance. CIM Bonding Agent is recommended for greater adhesion. Finished system results vary due to a variety of project specific factors, including the service conditions to which the system is exposed. Therefore, C.I.M. Industries does not accept responsibility for determining the suitability of an existing coating and lining as a substrate for CIM products. Owner shall perform adhesion tests on any existing coating or lining to determine suitability.

EARTH: Use CIM Scrim.

COLOR CIM 1000 is initially shiny black, turning dull over 3 to 6 months when exposed to direct sunlight. For a colored or reflecting surface finish, see C.I.M Industries' Instruction Guide, "Topcoats" (IG–7) for further instructions.

SOLIDS BY VOLUME 88% (1413 dry mils x sq. ft./gal.)

VOC 92 g/l (0.76 lb./gal.). CIM 1000 complies with the toughest VOC regulations.

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C.I.M. Industries Inc.
A Chase Corporation Company

CIM 1000

HIGH PERFORMANCE COATINGS AND LININGS

GENERAL APPLICATION INFORMATION

FOR PROFESSIONAL USE ONLY.

PRECAUTIONS Avoid contamination with water or moisture. Keep all pails and jugs tightly closed until ready for use. All equipment, air supplies, and application substrates must be **ABSOLUTELY DRY.** Do not apply in wet weather or when rain is imminent or when the CIM 1000 or the substrate may become wet within 4 hours after coating. Use caution when applying CIM 1000 in confined spaces. See C.I.M. Industries' Instruction Guide, "Applying CIM Within Confined Spaces" (IG–9).

TEMPERATURE Surface should be at least 50°F (10°C) and must be 5°F (3°C) above the dew point. **DO NOT APPLY WHEN THE SUBSTRATE OR AMBIENT TEMPERATURE IS RISING OR COATING IS IN DIRECT SUNLIGHT.** CIM 1000 should be at least 60°F (15°C) when mixed and applied. CIM 1000 may be preheated to facilitate application at low temperatures, but working time will be reduced. See C.I.M. Industries' Instruction Guide "Applying CIM Coatings in Cold Weather" (IG–11).

EQUIPMENT Spray equipment requires large diameter hose and air supplied mastic gun or plural component spray equipment. See "Spray Application of CIM" (IG-12) or contact C.I.M. Industries for specific recommendations. Roller, squeegee, and trowel may also be used.

POT LIFE About 30 minutes. Working time depends on temperature and method of application. Working time for spray application will be significantly shorter.

PRIMING Porous substrates such as wood and concrete may be primed with CIM Epoxy Primer to minimize outgassing. The maximum recoat window for CIM Epoxy Primer is 48 hours. See CIM Epoxy Primer Technical Data Sheet for additional information. Perform adhesion tests to confirm adequacy of adhesion to primer.

MIXING **DO NOT THIN. DO NOT HAND MIX.** Begin mixing each pail (4.5 gal.) of CIM 1000 Premix using a power mixer (e.g. ½" drill and an eight inch mud mixer). Do not draw air into the mix. While mixing, slowly add one jug (0.5 gal.) of CIM 1000 Activator to the pail. Once the CIM 1000 Activator has been added, mix thoroughly for **3 FULL MINUTES.** The proportions are premeasured. **DO NOT ESTIMATE.** Mixing Jigs and Timers from C.I.M. Industries help eliminate mixing errors and increase productivity on the job. See C.I.M. Industries' Instruction Guide, "Mixing CIM Premix and Activator" (IG–8).

APPLICATION Apply CIM 1000 directly to a clean and dry substrate. Vertical surfaces will require multiple coats. See C.I.M. Industries' specific substrate Instruction Guide for additional guidelines.

RECOATING CIM 1000 may be recoated in 1 hour and must be recoated soon after the coating no longer comes off on polyethylene (typically within 4 hours of mixing). If the liner has cured longer than this time, the surface must be severely abraded using surface grinder or other mechanical means, and be free of dust and debris. Use CIM Bonding Agent for better adhesion. For immersion conditions, all coats shall be applied within 4 hours of each other, except at joint lines.

RECOMMENDED MINIMUM THICKNESS Recommended minimum thickness of the coating is 60 wet mils. Contact C.I.M. Industries for detailed cure time information. Refer to CIM 1000 Coverage Chart for coverage rates.

CURING TIME CIM 1000 may be placed in service within 24 hours for non-aggressive service. Severe service applications may require a cure time of 72 hours or more. Contact C.I.M. Industries for specific recommendations.

CLEAN-UP Use mineral spirits for clean-up of uncured material. Spray equipment must be flushed regularly during application to prevent material from setting up in the hose and pump. Cured material is very difficult to remove. Soaking in solvent will soften the material and may assist in its removal.

CONTACT C.I.M. INDUSTRIES FOR SPECIFIC RECOMMENDATIONS AND INSTRUCTION GUIDES.

www.cimindustries.com

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Technical Data Guide

MASTER® BUILDERS SOLUTIONS

7 | 07 18 00
Traffic
Coatings

MasterSeal® Traffic 1500 (Low VOC)

Polyurethane waterproofing, traffic-bearing membrane systems for vehicular and pedestrian areas

FORMERLY SONOGUARD®

PACKAGING
- MasterSeal P 222:
  5 gallon (18.93 L) pails
- MasterSeal P 220:
  - 4 gallon (15.14 L) units in
  - 5 gallon pails (18.93 L)
- MasterSeal M 205:
  5 gallon (18.93 L) pails
- MasterSeal TC 235:
  5 gallon (18.93 L) pails
- MasterSeal 914: 1 pint (473 mL) cans
- MasterSeal 915 (for recoat applications):
  0.5 pint (236 mL) cans

YIELD
See chart on page 3

COLORS
Gray, Charcoal, Tan, Dark Tan

STORAGE
Store in unopened containers in a cool, clean, dry area

SHELF LIFE
- MasterSeal M 205 and TC 235:
  5 gal pails, 1 year when properly stored
- MasterSeal 914: pint cans:
  2 years when properly stored
- MasterSeal 915:
  1 year when properly stored
- MasterSeal 900:
  5.5 years when properly stored

DESCRIPTION
MasterSeal Traffic 1500 waterproofing systems are composed of:
- MasterSeal M 205, a low VOC, one component, moisture curing polyurethane.
- MasterSeal TC 235, a low VOC, one component aliphatic, moisture curing polyurethane.
- MasterSeal TC 235
  Note: MasterSeal TC 235 Tint Base are intended for pedestrian use only and are not suitable for vehicular traffic.

For projects requiring primer, two choices are available:
- MasterSeal P 222, a one-component solvent-based primer and sealer,
- MasterSeal P 220, a two-component waterborne epoxy primer and sealer.

PRODUCT HIGHLIGHTS
- Primer coat not typically required which helps to reduce labor and material costs
- Waterproof which helps to protect concrete from freeze/thaw damage; protects occupied areas below from water damage
- Excellent chloride resistance provides protection against chloride intrusion; extends the life of reinforcing steel
- Seamless elastomeric membrane offers excellent durability and superior abrasion resistance, has no seams that may result in leaks
- Provides skid resistance to increase safety and offers excellent durability and superior abrasion resistance
- Multiple systems available, making MasterSeal Traffic 1500 ideal for various vehicular or pedestrian traffic solutions
- For TC 235 Tint Base: 40 standard colors utilizing MasterSeal 900 color packs (Pedestrian use only)
- Repairable and recoatable to extend the useful life of the system
- Four standard colors: gray, charcoal gray, tan and dark tan

VOC CONTENT
- MasterSeal M 205: 98 g/L less water and exempt solvents
- MasterSeal TC 235: 95 g/L less water and exempt solvents

A brand of MBCC GROUP

Test Data, cont.

	LIGHT TO MEDIUM TRAFFIC & PEDESTRIAN	HEAVY DUTY (REFUSAL METHOD)	EXTRA HEAVY DUTY (REFUSAL METHOD)
Weight per gallon, lbs (kg)	9.9 (4.5)	9.1 (4.1)	ASTM D 1475
Base coat			
Wet mils (mm)	25 (0.64)	25 (0.64)	25 (0.64)
Dry mils (mm)	20 (0.5)	20 (0.5)	20 (0.5)
Coverage[1]	55–60 (1.35–1.5)	55–60 (1.35–1.5)	55–60 (1.35–1.5)
Mid coat			
Wet mils (mm)	None	20 (0.5)	25 (0.64)
Dry mils (mm)	None	15 (0.4)	20 (0.5)
Coverage[1]	None	75–80 (1.83–1.97)	55–60 (1.35–1.5)
Finish coat			
Wet mils (mm)	25 (0.64)	20 (0.5)	20 (0.5)
Dry mils (mm)	20 (0.5)	15 (0.4)	15 (0.4)
Coverage[1]	55–60 (1.35–1.5)	75–80 (1.83–1.97)	75–80 (1.83–1.97)
Aggregate[2]			
lbs per 100 ft² (kg/m²)	18–30 (0.8–1.5)	23–40 (1.15–2.0)	23–40 (1.15–2.0)

Coverage rates are approximate and may vary due to the application technique used.
Actual coverage rate will also depend on finish and porosity of the substrate.
[1] Coverage is ft²/gal (m²/L)
[2] Combined amount of aggregate, mid & topcoat (16–30 mesh rounded silica sand or proportional equivalent)

INDUSTRIES/SECTORS

- Stadiums
- Balconies
- Parking Garages
- Commercial Construction
- Building and Restoration
- Plywood decks/balconies
- Plaza decks

HOW TO APPLY

SURFACE PREPARATION

CONCRETE

1. Concrete must be fully cured (28 days), structurally sound, clean and dry (ASTM D 4263). All concrete surfaces (new and old) must be shot blasted to remove previous coatings, laitance and all miscellaneous surface contamination and to provide profile for proper adhesion. Abrasive shot blasting must occur after concrete repair has taken place. Acid-etching is not permitted. Proper profile should be a minimum of ICRI CSP-3 (as described in ICRI document 03732.) For balconies and other pedestrian areas with limited space or access for shot-blasting, alternative mechanical methods can be used to achieve the recommended surface profile.
2. Repair voids and delaminated areas with Master Builders Solutions branded cementicious and epoxy patching materials. For application when fast-turn repairs are required, MasterSeal 350 can be used to repair patches up to 1.5" in depth when used in aggregate slurry mix. Please refer to the MasterSeal 350 Technical Data Guide for proper application techniques.
3. All units must be applied within the specified pot life.

SURFACE PRE-STRIPPING AND DETAILING

1. For nonmoving joints and cracks less than 1/16" (1.6 mm) wide, apply primer when required, followed by 25 wet mils (0.6 mm) pre-striping of MasterSeal M 205. MasterSeal M 205 must be applied to fill and overlap the joint or crack 3" (76 mm) on each side. Feather the edges.
2. Dynamic cracks and joints 1/16" (1.6 mm) and greater wide must be routed to a minimum of ¼ by ¼" (6 by 6 mm) and cleaned. Install bond breaker tape to prevent adhesion of sealants to the bottom of joint. Prime joint faces only with MasterSeal P 173 (see Form No. 1017962). Fill joints deeper than ¼" (6 mm) with appropriate backer rod and MasterSeal SL 1™/ SL 2™ (slope grade or self-leveling) or MasterSeal NP 1™/ NP 2™ sealants. For cracks, sealant should be flush with the adjacent concrete surface. For expansion joints, sealant should be slightly concave. Once the sealant is cured the lines should be prestriped with base coat MasterSeal M 205, overlap the joint 3" (76 mm) on each side.
3. Sealed joints 1" (25 mm) or less can be coated over with MasterSeal Traffic 1500. Expansion joints exceeding 1" (25 mm) wide should not be coated over with MasterSeal Traffic 1500 so that they can perform independently of the deck coating system.
4. Where the coating system will be terminated and no wall, joint or other appropriate break exists, cut a ¼" x ¼" (6 x 6 mm) keyway into the concrete. Fill and coat keyway during application of MasterSeal M 205.
5. Form a sealant cant into the corner at the junction of all horizontal and vertical surfaces (wall sections, curbs, columns). Prime with MasterSeal P 173 and apply a ½–1" (13–25 mm) wide bead of MasterSeal NP 1 or MasterSeal NP 2 sealants. Tool to form a 45 degree cant. Apply masking tape to the vertical surfaces 4–5" (102–127 mm) above the sealant cant to provide a clean termination of the

3. Apply 20 wet mils (0.51 mm) MasterSeal TC 235 using a notched squeegee at 75–80 ft²/gal (1.83–1.97 m²/L). Immediately backroll to level MasterSeal TC 235. The next step, #4, can utilize either method described in 4A or 4B.

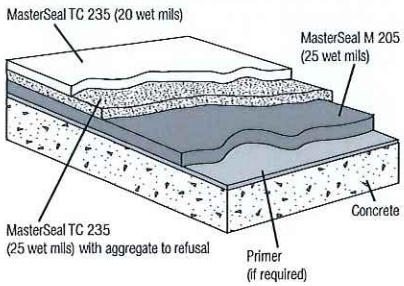
4A. AGGREGATE TO REFUSAL METHOD
Immediately broadcast MasterSeal 941 or equivalent 16–30 mesh, rounded silica sand into the wet coating at the rate of 20–35 lbs/100 ft² (1.0–1.75 kg/m²). Immediately after the aggregate broadcast and while the coating is still wet, blow any excess aggregate via a portable blower forward into the wet coating. Do not over apply aggregate; it is acceptable to have localized wet spots in the aggregate surface after completion of this method. This process requires coordination between all of the members in the work crew. The blower operator, wearing clean spiked shoes, should blow the excess aggregate forward towards the freshly applied and back rolled topcoat. In this method, the coating should not accept additional sand, minimal excess aggregate is on the surface, less aggregate is used and the textured appearance should be fairly uniform.

4B. BROADCAST AND BACKROLL METHOD
Immediately broadcast MasterSeal 941 or equivalent 16–30 mesh, rounded silica sand into the wet coating and backroll to encapsulate the aggregate. Evenly broadcast aggregate at the rate of 15–20 lbs/100 ft² (0.75–1.0 kg/m²). Allow to cure overnight.

5. Ensure there is no moisture on the surface of the aggregate/membrane before application of topcoat. Remove all loose aggregate, then apply 20 wet mils using a flat squeegee at 75–80 ft²/gal (1.84–1.96 m²/L). Immediately backroll to level MasterSeal TC 235.

6. For additional slip resistance, immediately broadcast MasterSeal 941 or equivalent 16–30 rounded silica sand at a rate of 3–5 lbs/100 ft² (0.15–0.25 kg/m²) and backroll to encapsulate.

EXTRA HEAVY-DUTY SYSTEM
(Aggregate to refusal method)



EXTRA-HEAVY DUTY SYSTEM

1. Prime concrete substrate (if required).
2. Apply 25 (0.64 mm) wet mils of MasterSeal M 205 using a proper notched squeegee at 55–60 ft²/gal (1.35–1.47 m²/L). Immediately backroll to level base coat. Allow to cure overnight.
3. Apply 25 wet mils (0.64 mm) MasterSeal TC 235 using a properly notched squeegee at the rate of 55–60 ft²/gal (1.35–1.47 m²/L). Immediately backroll to evenly level topcoat. The next step, #4, can utilize either method described in 4A or 4B.

4A. AGGREGATE TO REFUSAL METHOD
Immediately broadcast MasterSeal 941 or equivalent 16–30 mesh, rounded silica sand into the wet coating at the rate of 20–35 lbs/100 ft² (1.0–1.75 kg/m²). Immediately after the aggregate broadcast and while the coating is still wet, blow any excess aggregate via a portable blower forward into the wet coating. Do not over apply aggregate; it is acceptable to have localized wet spots in the aggregate surface after completion of this method. This process requires coordination between all of the members in the work crew. The blower operator, wearing clean spiked shoes, should blow the excess aggregate forward towards the freshly applied and back rolled topcoat. In this method, the coating should not accept additional sand, minimal excess aggregate is on the surface, less aggregate is used and the textured appearance should be fairly uniform

4B. BROADCAST AND BACKROLL METHOD
Immediately broadcast MasterSeal 941 or equivalent 16–30 mesh, rounded silica sand into the wet coating and backroll to encapsulate the aggregate. Evenly broadcast aggregate at the rate of 15–25 lbs/100 ft² (0.75–1.25 kg/m²). Allow to cure overnight.

5. Ensure there is no moisture on the surface of the aggregate/membrane before application of topcoat. Remove all loose aggregate, then apply 20 wet mils using a flat squeegee at 75–80 ft²/gal (1.84–1.96 m²/L). Immediately backroll to level MasterSeal TC 235.

6. For additional slip resistance, immediately broadcast MasterSeal 941 or equivalent at a rate of 3–7 lbs/ 100 ft² (0.15–0.25 kg/m²) and backroll to encapsulate.

IMPORTANT NOTE: All coverage rates are approximate and may vary due to the application technique used. Coverage rates are affected by substrate texture, choice and distribution of aggregate, intermediate coat aggregate load and environmental conditions. Application methods and conditions are not under the control of Master Builders Solutions. Ensure that an adequate amount of aggregate is utilized to achieve desired slip resistance.

MOCKUP

Provide mockup of at least 100 ft² (9.3 m²) to include surface profile, sealant joint, crack, flashing and juncture details and allow for evaluation of slip resistance and appearance of MasterSeal Traffic 1500 system.

1. Install mockup with specified coating types and with other components noted.
2. Locate where directed by architect.
3. Mockup may remain as part of work if acceptable to architect. For recoat applications, see MasterSeal Traffic 1500 technical bulletin #24.

CURING TIME

Allow curing time of 72 hours before vehicular use and 48 hours before pedestrian use. Extend the curing time in cool-weather conditions. To reduce the time period in which MasterSeal Traffic 1500 might be vulnerable to inclement weather or to reduce the time between coats, use MasterSeal 914.

MAINTENANCE

1. Portions of the membrane that exhibit wear are considered a maintenance item, and are not considered a warrantable item.
2. Surfaces may be cleaned with commercial detergents. Master Builders Solutions recommends that a maintenance agreement be established between the owner and applicator.
3. Periodic inspection and repair of damaged surfaces will greatly prolong the performance and life of the system.
4. Remove all sharp debris such as sand, gravel and metal on a regular basis to avoid damage to the coating.
5. When removing snow, avoid the use of metal blades or buckets that may damage the coating.

CLEAN UP

Clean all tools and equipment with MasterSeal 990 or xylene.

FOR BEST PERFORMANCE

- MasterSeal NP 100 and MasterSeal NP150 should not be used in conjunction with this urethane deck coating system due to potential for curing issues.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Master Builders' present knowledge and experience. However, Master Builders assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Master Builders reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

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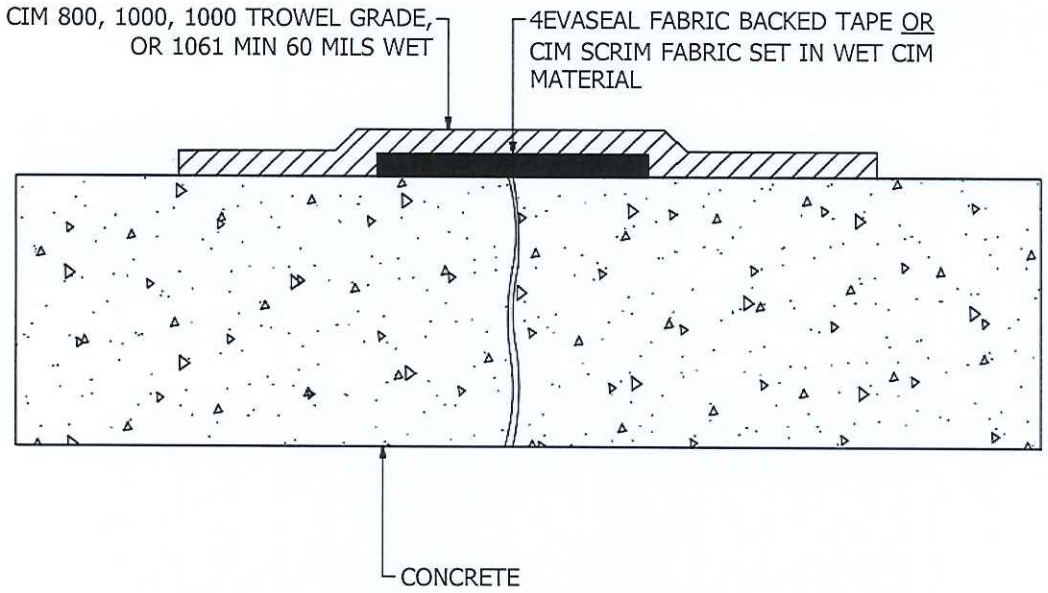

NOTES: 1. (OPTIONAL/NOT SHOWN) PRIME CONCRETE WITH CIM ECO OR CIM EMT EPOXY PRIMER.

C.I.M. Industries Inc. | THE ORIGINAL 4EvaSeal IS THE SOLUTION | CHASE Corporation — We make a material difference

TITLE

CONCRETE CRACK JOINT REINFORCEMENT DETAIL

SIZE		DWG NO	REV
		CIM-C0017	
SCALE NONE		SHEET 1 OF 1	

Brian Burkholder

From: John Larson <jlarsonocc@yahoo.com>
Sent: Wednesday, May 24, 2023 3:07 PM
To: Brian Burkholder
Cc: Jena Teigen; Timothy Popple
Subject: Concrete ground storage repairs

Follow Up Flag: Flag for follow up
Flag Status: Flagged

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Brian,

Pricing for the concrete ground storage repairs as we discussed.
-Remove old caulking from perimeter of lid by sandblasting, and grinding. -200 lineal feet
-Grind 1/4" into all cracks on top of lid (15 full length across top, 18' diameter crack in center) -800 lineal feet.
-Fill all ground areas and lid perimeter with Sikaflex 1A.

$7,900.00

Any changes to scope of work require a change order.

John Larson
Project Manager
Osseo Construction Co. LLC
P.O. Box 143
Osseo, WI 54758
Mobile:715-533-3052 Fax:715-597-2474

$ 1105

4- blow ups

No Campers

DEPARTMENT OF NATURAL RESOURCES

August 4, 2023

Dear water suppliers in the Upper Mississippi-Black-Root watershed,

This is a notification that due to prolonged dry weather that has resulted in expansion of severe drought, the Upper Mississippi-Black-Root watershed is moving to the *Drought Warning Response Phase* as described in the Minnesota Statewide Drought Plan.

Water Supplier Actions Needed

The State Drought Plan specifies actions that water suppliers must implement once the state is elevated to *Drought Warning Response Phase*.

1. **Water Suppliers of a Population over 1,000** - Public water suppliers implement appropriate water use restrictions contained in their Water Supply Plan.
    a. Your plan can be found in your MPARS account, under the Attachments tab.
    b. Begin implementing your Water Supply demand reduction measures in Plan Part 2 (Table 22). These actions can be supported by measures that are identified in the Water Supply Plan, Part 3 Water Conservation.
2. **All Water Suppliers** - Public water suppliers will implement water use reduction actions with a goal of reducing water use to 50% above January levels.
    a. For example: A city uses 4 million gallons of water in January, and normally uses 6.8 million in August. During the *Drought Warning* they should only use 6 million gallons in August.
    b. Communicate to your community the importance of implementing water conservation measures. Websites with water conservation messages: DNR Water Conservation webpage and https://www.ready.gov/drought

Significant demand reduction is achievable by restricting or banning non-essential outdoor water use, especially lawn irrigation, power washing buildings, car washing and swimming pool filling. Encourage customers to fix leaks, install water saving devices and water-efficient appliances. Have conversations with your biggest water users and ask them how they might reduce water use, especially during peak times.

Use a variety of communication methods: Large exterior signs around the community, mailing/emailing all customers, radio station announcements, Facebook posts or other social media, and news release to any local paper. Explain the critical situation and that you need everyone's help. Ask customers to conserve water as much as possible.

Other Suggestions:

- During times of severe drought, monitor your water levels closely. Keep in mind that water quality may be impacted by increased concentrations of contaminants.
- Please alert your local DNR hydrologists to any water supply concerns or issues during the summer.
- **Sign up** to receive GovDelivery updates about drought in Minnesota, drought preparations and response, and important ways to conserve water.

Best regards,

Randall Doneen
Conservation Assistance and Regulations (CAR) Section Manager| Ecological & Water Resources
Phone: 651-295-9437
Email: randall.doneen@state.mn.us

mndnr.gov