

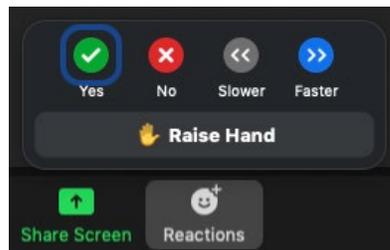
Hybrid Meeting Instructions for the Economic Development Authority Board

The public can view all Union Township meetings live by clicking on our [YouTube Channel](#). For those who would like to participate, you can do so via Zoom.

[Click here](#) to participate in the Zoom Meeting via computer or smart phone. (Meeting ID Enter “849 6026 5496” Password enter “980373”). Access to the electronic meeting will open at 4:20 p.m. and meeting will begin at 4:30 p.m.

Telephone conference call, dial (312-626-6799). Enter “849 6026 5496” and the “#” sign at the “Meeting ID” prompt, and then enter “980373” at the “Password” prompt. Lastly, re-enter the “#” sign again at the “Participant ID” prompt to join the meeting.

- All public comments will be taken at the Public Comment section of the agenda.
- Computer/tablet/smartphone audience: To indicate you wish to make a public comment, please use the “Reactions” icon. **Next, click on the “Raise Hand” icon** near the bottom right corner of the screen.



- **To raise your hand for telephone dial-in participants, press *9.** You will be called on by the last three digits of your phone number for comments, at which time you will be unmuted by the meeting moderator.
- Please state your name and address for the minutes and keep public comments concise.

You will be called upon once all in-person comments have been made, at which time you will be unmuted by the meeting moderator.

Persons with disabilities needing assistance should call the Township office at (989) 772-4600. Persons requiring speech or hearing assistance can contact the Township through the Michigan Relay Center at 711. A minimum of one (1) business day of advance notice will be necessary for accommodation.



**Economic Development Authority Board (EDA)
Regular Meeting – Union Township Hall
2010 S Lincoln Rd
Tuesday, June 20, 2023, at 4:30 p.m.**

AGENDA

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF MINUTES
 - May 16, 2023, Regular Meeting
5. CORRESPONDENCE
6. PUBLIC COMMENT
7. REPORTS
 - A. Accounts payable Approval – May
East DDA District #248 – Check Register
West DDA District #250 – Check Register
 - B. May Financial Reports: Income / Expense Statement; Balance Sheet
East DDA District #248
West DDA District #250
 - C. Board Member Matrix
8. NEW BUSINESS
 - A. Presentation of the 2022 Annual Synopsis of East and West District Activities required per Public Act 57 of 2018.
 - B. RFBA – Amend FY2023 East and West DDA Fund budgets for the bulk digitization of DDA-related records in accordance with the state Records Reproduction Act and applicable state standards.
 - C. RFBA - Pump Station #1 Construction Project Participation Agreement.

D. Review of bids to prep and re-paint the streetlight poles currently in storage during the E. Pickard Rd. (M-20) reconstruction.

9. PENDING BUSINESS

10. DIRECTOR COMMENTS

- Update on irrigation along Pickard Rd corridor

11. ADJOURNMENT

- Next regularly scheduled meeting Tuesday, July 18, 2023, at 4:30pm
- Informational meeting scheduled for Tuesday, July 25, 2023, at 4:30pm

**Charter Township of Union
Economic Development Authority Board (EDA)
Regular Board Meeting
Tuesday, May 16, 2023**

MINUTES

A regular meeting of the Charter Township of Union Economic Development Authority Board was held on May 16, 2023, at the Union Township Hall 2010 S. Lincoln Rd, Mt. Pleasant, MI 48858.

Meeting called to order at 4:30 p.m.

ROLL CALL

Present: Kequom, Zalud, Bacon, Coyne, Barz, Figg, Chowdhary, Sweet

Excused: Mielke

Absent:

Others Present: Rodney Nanney – Community and Economic Development Director, Amy Peak – Building Services Clerk, Sherrie Teall – Finance Director, Ali Barnes – Yeo & Yeo

APPROVAL OF AGENDA

MOTION by **Figg** SUPPORTED by **Chowdhary** to APPROVE the agenda as presented.

MOTION CARRIED 8-0.

APPROVAL OF MINUTES

MOTION by **Coyne** SUPPORTED by **Zalud** to APPROVE minutes from April 18, 2023, meeting as presented. **MOTION CARRIED 8-0.**

CORRESPONDENCE – Global Ends – 2022 Outcomes Report for board review.

PUBLIC COMMENT - None

ACCOUNTS PAYABLE/ FINANCIAL STATEMENTS

Finance Director, Sherrie Teall reviewed the accounts payable for the East DDA.

MOTION by **Barz** SUPPORTED by **Chowdhary** to APPROVE the East DDA payables 4/19/23 – 5/16/23 in the amount of \$12,468.79 as presented. **MOTION CARRIED 7-0. (Zalud abstained)**

Finance Director, Sherrie Teall reviewed the accounts payable for the West DDA. MOTION by **Figg** SUPPORTED by **Sweet** to APPROVE the West DDA payables 4/19/23 – 5/16/23 in the amount of \$162.50 as presented. **MOTION CARRIED 8-0.**

Financial reports were RECEIVED AND FILED by Chair Kequom

NEW BUSINESS

- A. Ali Barnes from Yeo & Yeo gave FY2022 Audit Presentation for East and West DDA's.
- B. Chair Kequom opened nominations for EDA Chair. Kequom was nominated by Zalud as EDA Chair with support from Sweet. Nominations closed with a vote of 8-0 in support of the nomination.
Chair Kequom opened nominations for EDA Vice Chair. Mielke was nominated by Sweet with support from Zalud. Nominations closed with a vote of 8-0 in support of the nomination.

- C. **RFBA - To approve an East DDA District Fund Community Improvement Grant award for Mid Valley Structures in the amount of \$5000.00 for replacement of and outdated pole sign with installation of a new freestanding monument sign at 5152 E. Pickard Road (PID14-146-00-007-00), with issuance of the grant award to be contingent upon confirmation from the Zoning Administrator that the completed sign conforms to the approved sign permit.**
Community and Economic Development Director Rodney Nanney reviewed RFBA. Discussion held.

MOTION by **Zalud** SUPPORTED by **Barz** to approve an East DDA District Fund Community Improvement Grant award for Mid Valley Structures in the amount of \$5000.00 for replacement of and outdated pole sign with installation of a new freestanding monument sign at 5152 E. Pickard Road (PID14-146-00-007-00), with issuance of the grant award to be contingent upon confirmation from the Zoning Administrator that the completed sign conforms to the approved sign permit.
MOTION CARRIED, 8 – Yes, 0 – No, 1 – Absent.

- D. **RFBA – To approve the M-20 Streetlighting Foundations Upgrade contract with J Ranck Electric in the amount of \$171,186.75 to perform all work as specified in the Quote document for the streetlight foundations restoration and replacement of the underground wiring on the south side of M-20; to amend the FY2023 East DDA budget to authorize an additional appropriation of \$171,186.75 for this project; and to authorize the Township Manager to sign a service agreement with J Ranck Electric for this work.**
Community and Economic Development Director Rodney Nanney reviewed RFBA. Discussion held.

MOTION by **Bacon** SUPPORTED by **Figg** to approve the M-20 Streetlighting Foundations Upgrade contract with J Ranck Electric in the amount of \$171,186.75 to perform all work as specified in the Quote document for the streetlight foundations restoration and replacement of the underground wiring on the south side of M-20; to amend the FY2023 East DDA budget to authorize an additional appropriation of \$171,186.75 for this project; and to authorize the Township Manager to sign a service agreement with J Ranck Electric for this work. **MOTION CARRIED, 8 – Yes, 0 – No, 1 – Absent.**

DIRECTOR COMMENTS

- Digital imaging of the East/West DDA archived documents plan and process. A proposal will be coming to the EDA board to move forward with digitizing files.
- Streetlights along Pickard Road are worn and looking at the opportunity to have them repainted. This will be coming before the board at the June meeting for discussion.

GENERAL DISCUSSION

- Consumers Energy grant program for trees.

BOARD COMMENTS

- Kequom commented on the 2022 Outcomes Report. Good job.
- Zalud would like to be able to map our utilities along Pickard Road for Miss Dig.
- Zalud mentioned the possibility of replanting trees along Pickard Road.

Next regular EDA meeting to be held on Tuesday, June 20, 2023, at 4:30pm
Meeting adjourned at 5:30pm.

APPROVED BY

Thomas Kequom, EDA Board Chair

(Recorded by Amy Peak)

06/13/2023 02:00 PM
 User: SHERRIE
 DB: Union

CHECK REGISTER FOR CHARTER TOWNSHIP OF UNION
 CHECK DATE FROM 05/17/2023 - 06/20/2023

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
Bank 248 EDDA CHECKING						
05/26/2023	248	103 (E)	00146	CONSUMERS ENERGY	4592 E PICKARD ST STE B	29.48
					5771 E PICKARD RD STE B	29.48
					5771 E PICKARD RD STE A	59.36
					5770 E PICKARD ST STE B	29.36
					5770 E PICKARD ST STE A	42.92
					5157 E PICKARD ST STE B	29.36
					1940 S ISABELLA RD	45.68
					2027 FLORENCE ST	16.42
					4900 E PICKARD ST	16.42
					5325 E PICKARD ST	21.80
					4675 E PICKARD ST	21.91
					2029 2ND STREET	21.80
					4592 E PICKARDS ST STE A	21.80
					5157 E PICKARD ST STE A	21.80
					4923 E PICKARD ST	21.80
						<u>429.39</u>
06/20/2023	248	4339	01600	BE GREEN LAWN SERVICES CO, INC.	GROWTH REGULATOR-PICKARD ST CORRIDOR	332.00
					WEED & FEED-PICKARD ST CORRIDOR	649.00
						<u>981.00</u>
06/20/2023	248	4340	00450	M M I	PARK BENCH/GROUNDS MAINT-MAY 2023	603.75
06/20/2023	248	4341	00672	UNION TOWNSHIP FIRE FUND	PUBLIC SAFETY-FIRE PROTECTION FOR EDDA	79,658.26
06/20/2023	248	4342	00732	YEO & YEO, PC	AUDIT PRESENTATION-EAST DDA-FY 2022	425.00
						<u>425.00</u>

248 TOTALS:

Total of 5 Disbursements:

82,097.40

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
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Bank 250 WDDA CHECKING

06/20/2023	250	288	00672	UNION TOWNSHIP FIRE FUND	PUBLIC SAFETY-FIRE PROTECTION FOR WDDA	65,765.91
06/20/2023	250	289	00732	YEO & YEO, PC	AUDIT PRESENTATION-WEST DDA-FY 2022	425.00

250 TOTALS:

Total of 2 Checks:						66,190.91
Less 0 Void Checks:						0.00
Total of 2 Disbursements:						66,190.91

User: SHERRIE

PERIOD ENDING 05/31/2023

DB: Union

GL NUMBER	DESCRIPTION	YTD BALANCE		2023		YTD BALANCE		% BDGT USED
		NORMAL	(ABNORMAL)	ORIGINAL BUDGET	2023 AMENDED BUDGET	NORMAL	(ABNORMAL)	
Fund 248 - EAST DDA FUND								
Revenues								
Dept 000 - NONE								
248-000-402.000	CURRENT PROPERTY TAX	506,459.10		515,000.00	515,000.00		516,934.75	100.38
248-000-402.001	PROPERTY TAX REFUNDS-BOR MTT	0.00		(4,000.00)	(4,000.00)		0.00	0.00
248-000-402.100	PRIOR YEARS PROPERTY TAXES	0.00		(250.00)	(250.00)		0.00	0.00
248-000-420.000	DELQ PERSONAL PROPERTY CAPT	0.00		300.00	300.00		3.63	1.21
248-000-445.000	INTEREST ON TAXES	0.00		500.00	500.00		0.66	0.13
248-000-573.000	STATE AID REVENUE-LCSA	0.00		60,000.00	60,000.00		0.00	0.00
248-000-665.000	INTEREST EARNED	982.34		8,600.00	8,600.00		18,920.24	220.00
248-000-671.000	OTHER REVENUE	14,820.00		1,000.00	1,000.00		0.00	0.00
Total Dept 000 - NONE		522,261.44		581,150.00	581,150.00		535,859.28	92.21
TOTAL REVENUES		522,261.44		581,150.00	581,150.00		535,859.28	92.21
Expenditures								
Dept 000 - NONE								
248-000-801.000	PROFESSIONAL & CONTRACTUAL SERVICES	5,517.50		12,300.00	12,300.00		4,328.25	35.19
248-000-801.001	MAINT- BENCHES/TRASH RECEPTACLES	0.00		5,000.00	5,000.00		0.00	0.00
248-000-801.003	SIDEWALK SNOWPLOWING	5,600.00		11,000.00	11,000.00		4,550.00	41.36
248-000-801.004	LAWN CARE	7,414.00		28,500.00	28,500.00		981.00	3.44
248-000-801.005	IRRIGATION / LIGHTING REPAIRS	11,046.66		20,000.00	20,000.00		132.75	0.66
248-000-801.007	FLOWER / LANDSCAPE MAINTENANCE	5,332.50		21,000.00	21,000.00		0.00	0.00
248-000-801.015	STREET LIGHT BANNERS/CHRISTMAS	8,717.00		20,000.00	20,000.00		4,725.00	23.63
248-000-826.000	LEGAL FEES	0.00		4,000.00	4,000.00		0.00	0.00
248-000-851.000	MAIL/POSTAGE	0.00		750.00	750.00		0.00	0.00
248-000-880.000	COMMUNITY PROMOTION	5,000.00		9,000.00	9,000.00		500.00	5.56
248-000-883.000	COMMUNITY IMPROVEMENT GRANTS	0.00		40,000.00	40,000.00		0.00	0.00
248-000-900.000	PRINTING & PUBLISHING	0.00		250.00	250.00		0.00	0.00
248-000-915.000	MEMBERSHIP & DUES	0.00		500.00	500.00		162.50	32.50
248-000-917.000	WATER & SEWER CHARGES	0.00		18,000.00	18,000.00		159.63	0.89
248-000-920.000	ELECTRIC/NATURAL GAS	5,037.02		14,000.00	14,000.00		4,058.58	28.99
248-000-935.000	PROPERTY/LIABILITY INSURANCE	1,528.22		1,800.00	1,800.00		1,706.79	94.82
248-000-940.000	LEASE/RENT	1,135.00		875.00	875.00		0.00	0.00
248-000-955.000	MISC.	0.00		100.00	100.00		0.00	0.00
Total Dept 000 - NONE		56,327.90		207,075.00	207,075.00		21,304.50	10.29
Dept 336 - FIRE DEPARTMENT								
248-336-830.000	PUBLIC SAFETY - FIRE PROTECTION	156,349.46		80,000.00	80,000.00		79,658.26	99.57
Total Dept 336 - FIRE DEPARTMENT		156,349.46		80,000.00	80,000.00		79,658.26	99.57
Dept 728 - ECONOMIC DEVELOPMENT								
248-728-967.200	WATER SYSTEM PROJECTS	0.00		100,000.00	100,000.00		0.00	0.00
248-728-967.300	SEWER SYSTEM PROJECTS	0.00		100,000.00	100,000.00		0.00	0.00
248-728-967.400	STREET/ROAD PROJECTS	0.00		400,000.00	400,000.00		0.00	0.00
248-728-967.500	SIDEWALK/PATHWAY PROJECTS	0.00		340,000.00	340,000.00		0.00	0.00
248-728-967.600	PARKS PROJECTS	10,000.00		0.00	0.00		0.00	0.00
248-728-974.000	LAND IMPRVMENTS-GENERAL	15,858.82		20,000.00	20,000.00		0.00	0.00
248-728-974.200	LAND IMPRVMENTS-PICKARD RIGHT OF WAY	0.00		80,000.00	80,000.00		0.00	0.00
248-728-974.201	LAND IMPRVMENTS-5800 PICKARD/ENTERPRIS	0.00		40,000.00	40,000.00		0.00	0.00
248-728-974.202	LAND IMPRVMENTS-2120 YATS DR	0.00		0.00	0.00		11,925.00	100.00

User: SHERRIE

DB: Union

PERIOD ENDING 05/31/2023

GL NUMBER	DESCRIPTION	YTD BALANCE		2023		YTD BALANCE		% BDGT USED
		NORMAL	(ABNORMAL)	ORIGINAL BUDGET	2023 AMENDED BUDGET	NORMAL	(ABNORMAL)	
Fund 248 - EAST DDA FUND								
Expenditures								
248-728-974.203	LAND IMPRVMENTS-JONATHON LANE	0.00		75,000.00	75,000.00		0.00	0.00
248-728-974.205	LAND IMPRVMENTS-HONEY BEAR LN	0.00		25,000.00	25,000.00		0.00	0.00
Total Dept 728 - ECONOMIC DEVELOPMENT		25,858.82		1,180,000.00	1,180,000.00		11,925.00	1.01
TOTAL EXPENDITURES		238,536.18		1,467,075.00	1,467,075.00		112,887.76	7.69
Fund 248 - EAST DDA FUND:								
TOTAL REVENUES		522,261.44		581,150.00	581,150.00		535,859.28	92.21
TOTAL EXPENDITURES		238,536.18		1,467,075.00	1,467,075.00		112,887.76	7.69
NET OF REVENUES & EXPENDITURES		283,725.26		(885,925.00)	(885,925.00)		422,971.52	47.74

User: SHERRIE

DB: Union

PERIOD ENDING 05/31/2023

GL NUMBER	DESCRIPTION	YTD BALANCE		2023		YTD BALANCE		% BDGT USED
		NORMAL	(ABNORMAL)	ORIGINAL BUDGET	2023 AMENDED BUDGET	NORMAL	(ABNORMAL)	
Fund 250 - WEST DDA FUND								
Revenues								
Dept 000 - NONE								
250-000-402.000	CURRENT PROPERTY TAX	397,780.60		413,000.00	413,000.00	414,115.58		100.27
250-000-402.001	PROPERTY TAX REFUNDS-BOR MTT	0.00		(4,000.00)	(4,000.00)	0.00		0.00
250-000-420.000	DELQ PERSONAL PROPERTY CAPT	0.00		20.00	20.00	19.11		95.55
250-000-445.000	INTEREST ON TAXES	0.00		200.00	200.00	106.61		53.31
250-000-665.000	INTEREST EARNED	1,673.36		8,600.00	8,600.00	8,168.57		94.98
Total Dept 000 - NONE		399,453.96		417,820.00	417,820.00	422,409.87		101.10
TOTAL REVENUES		399,453.96		417,820.00	417,820.00	422,409.87		101.10
Expenditures								
Dept 000 - NONE								
250-000-801.000	PROFESSIONAL & CONTRACTUAL SERVICES	3,167.50		5,270.00	5,270.00	2,925.00		55.50
250-000-801.003	SIDEWALK SNOWPLOWING	0.00		8,000.00	8,000.00	3,500.00		43.75
250-000-826.000	LEGAL FEES	0.00		1,000.00	1,000.00	0.00		0.00
250-000-851.000	MAIL/POSTAGE	0.00		750.00	750.00	0.00		0.00
250-000-880.000	COMMUNITY PROMOTION	5,000.00		8,000.00	8,000.00	500.00		6.25
250-000-883.000	COMMUNITY IMPROVEMENT GRANTS	0.00		40,000.00	40,000.00	0.00		0.00
250-000-900.000	PRINTING & PUBLISHING	0.00		500.00	500.00	0.00		0.00
250-000-915.000	MEMBERSHIP & DUES	0.00		400.00	400.00	162.50		40.63
250-000-955.000	MISC.	0.00		100.00	100.00	0.00		0.00
250-000-967.000	CONTRIBUTIONS TO ROAD COMMISSION	0.00		40,000.00	40,000.00	0.00		0.00
Total Dept 000 - NONE		8,167.50		104,020.00	104,020.00	7,087.50		6.81
Dept 336 - FIRE DEPARTMENT								
250-336-830.000	PUBLIC SAFETY - FIRE PROTECTION	126,510.98		64,000.00	64,000.00	65,765.91		102.76
Total Dept 336 - FIRE DEPARTMENT		126,510.98		64,000.00	64,000.00	65,765.91		102.76
Dept 728 - ECONOMIC DEVELOPMENT								
250-728-940.000	LEASE/RENT	475.00		175.00	175.00	0.00		0.00
Total Dept 728 - ECONOMIC DEVELOPMENT		475.00		175.00	175.00	0.00		0.00
TOTAL EXPENDITURES		135,153.48		168,195.00	168,195.00	72,853.41		43.31
Fund 250 - WEST DDA FUND:								
TOTAL REVENUES		399,453.96		417,820.00	417,820.00	422,409.87		101.10
TOTAL EXPENDITURES		135,153.48		168,195.00	168,195.00	72,853.41		43.31
NET OF REVENUES & EXPENDITURES		264,300.48		249,625.00	249,625.00	349,556.46		140.03

Fund 248 EAST DDA FUND

GL Number	Description	Balance
*** Assets ***		
248-000-001.000	CASH	10,010.80
248-000-002.000	SAVINGS	802,128.90
248-000-003.001	CERTIFICATE OF DEPOSIT	1,548,663.57
248-000-128.000	ASSETS HELD FOR SALE	20,463.92
Total Assets		2,381,267.19
*** Liabilities ***		
248-000-202.000	ACCOUNTS PAYABLE	81,646.21
Total Liabilities		81,646.21
*** Fund Balance ***		
248-000-370.379	RESTRICTED FUND BALANCE	1,876,649.46
Total Fund Balance		1,876,649.46
Beginning Fund Balance		1,876,649.46
Net of Revenues VS Expenditures		422,971.52
Ending Fund Balance		2,299,620.98
Total Liabilities And Fund Balance		2,381,267.19

Fund 250 WEST DDA FUND

GL Number	Description	Balance
*** Assets ***		
250-000-001.000	CASH	2,817.52
250-000-002.000	SAVINGS	184,953.82
250-000-002.001	SHARES	53.70
250-000-003.001	CERTIFICATE OF DEPOSIT	1,058,895.10
Total Assets		1,246,720.14
*** Liabilities ***		
250-000-202.000	ACCOUNTS PAYABLE	66,190.91
Total Liabilities		66,190.91
*** Fund Balance ***		
250-000-370.379	RESTRICTED FUND BALANCE	830,972.77
Total Fund Balance		830,972.77
Beginning Fund Balance		830,972.77
Net of Revenues VS Expenditures		349,556.46
Ending Fund Balance		1,180,529.23
Total Liabilities And Fund Balance		1,246,720.14

Board Expiration Dates

Planning Commission Board Members (9 Members) 3 year term			
#	F Name	L Name	Expiration Date
1-BOT Representative	James	Thering	11/20/2024
2-Chair	Phil	Squatrito	2/15/2026
3-Vice Chair	Ryan	Buckley	2/15/2025
4-Secretary	Doug	LaBelle II	2/15/2025
5 - Vice Secretary	Tera	Albrecht	2/15/2024
6	Stan	Shingles	2/15/2024
7	Paul	Gross	2/15/2025
8	Nivia	McDonald	2/15/2026
9	Jessica	Lapp	2/15/2026
Zoning Board of Appeals Members (5 Members, 2 Alternates) 3 year term			
#	F Name	L Name	Expiration Date
1-Chair	Liz	Presnell	12/31/2025
2- PC Rep	Ryan	Buckley	2/15/2025
3 -	Richard	Barz	12/31/2025
4 -	Vacant		12/31/2023
5 -	Eric	Loose	12/31/2024
Alt. #1	David	Coyne	12/31/2024
Alt #2 (BOT Representative)	Jeff	Brown	11/20/2024
Board of Review (3 Members) 2 year term			
#	F Name	L Name	Expiration Date
1	Doug	LaBelle II	12/31/2024
2	Sarvjit	Chowdhary	12/31/2024
3	Bryan	Neyer	12/31/2024
Alt #1	Randy	Golden	12/31/2024
Construction Board of Appeals (3 Members) 2 year term			
#	F Name	L Name	Expiration Date
1	Colin	Herren	12/31/2023
2	Joseph	Schafer	12/31/2023
3	Andy	Theisen	12/31/2023
Hannah's Bark Park Advisory Board (2 Members from Township) 2 year term			
1	Mark	Stuhldreher	12/31/2024
2	John	Dinse	12/31/2023
Chippewa River District Library Board 4 year term			
1	Ruth	Helwig	12/31/2023
2	Lynn	Laskowsky	12/31/2025



Board Expiration Dates

EDA Board Members (9 Members) 4 year term			
#	F Name	L Name	Expiration Date
1-Chair	Thomas	Kequom	4/14/2027
2-VC/BOT Rep	Bryan	Mielke	11/20/2024
3	James	Zalud	4/14/2027
4	Richard	Barz	2/13/2025
5	Robert	Bacon	1/13/2027
6	Marty	Figg	6/22/2026
7	Sarvjit	Chowdhary	6/22/2027
8	Jeff	Sweet	2/13/2025
9	David	Coyne	3/26/2026
Mid Michigan Area Cable Consortium (2 Members)			
#	F Name	L Name	Expiration Date
1	Kim	Smith	12/31/2025
2	vacant seat		
Cultural and Recreational Commission (1 seat from Township) 3 year term			
#	F Name	L Name	Expiration Date
1	Robert	Sommerville	12/31/2025
Sidewalks and Pathways Prioritization Committee (2 year term -PC Appointments)			
#	F Name	L Name	Expiration Date
1 - BOT Representative	Kimberly	Rice	11/20/2024
2 - PC Representative	Stan	Shingles	2/15/2024
3 - Township Resident	Jeff	Siler	8/15/2023
4 - Township Resident	vacant seat		10/17/2022
5 - Member at large	Phil	Hertzler	8/15/2023
Mid Michigan Aquatic Recreational Authority (2 seat from Township) 3 year term			
#	F Name	L Name	Expiration Date
1-City of Mt. Pleasant	John	Zang	12/31/2023
2-City of Mt. Pleasant	Judith	Wagley	12/31/2022
1-Union Township	Stan	Shingles	12/31/2023
2-Union Township	Allison	Chiodini	12/31/2025
1-Mt. Pleasant Schools	Lisa	Diaz	12/31/2022
1-Member at Large	Mark	Stansberry	2/14/2025
2- Member at Large	Michael	Huenemann	2/14/2025

2022 ANNUAL SYNOPSIS OF ECONOMIC DEVELOPMENT AUTHORITY BOARD ACTIVITIES

TO: Mark Stuhldreher, Township Manager	DATE: June 12, 2023
FROM: Rodney C. Nanney, AICP, Community and Economic Development Director	

Background Information

This report includes a synopsis of staff, contracts, activities, accomplishments, and projects in the Township's East and West Downtown Development Authority (DDA) Districts during the 2022 fiscal year. It has been prepared consistent with the requirements of Michigan Public Act 57 of 2018 (the Recodification Tax Increment Financing Act). Additional financial reporting is available in a separate document for each DDA District.

Public Act 57 went into effect on January 1, 2019. This state Act consolidated the laws governing various types of tax increment finance (TIF) authorities and standardized reporting requirements so the state and the public could better evaluate the effectiveness of TIF programs and projects. In accordance with Section 204(7) of this state Act, the Township's Economic Development Authority (EDA) Board is responsible for oversight of both the East and the West DDA Districts, supported by the Township's Community and Economic Development and Finance Department staff.

The EDA Board is required to submit a comprehensive annual report to the state Treasury Department and to each taxing unit levying taxes captured by the DDA Districts, and to make information available to the public. These reports are required to include detailed information on the capture and use of tax increment revenues, information on debt, and the progress and status of applicable DDA District development plans.

Staff Contact Information

Rodney Nanney, AICP, Community and Economic Development Director

(989) 772-4600 Ext. 232 rnanney@uniontownshipmi.com

Sherrie Teall, Finance Director

(989) 772-4600 Ext. 240 steall@uniontownshipmi.com

List and Descriptions of Current Contracts

The following is a summary list of current contracts and other documents related to management of and services provided by the EDA Board in the DDA Districts:

2022 Annual Synopsis of EDA Board Activities
Charter Township of Union

Current Contracts	
Pleasant Thyme Herb Farm 5490 E. Baseline Road Mount Pleasant, MI 48858	Installation and maintenance of flower baskets, wall planters, and sidewalk planters, and pruning of street trees all along the E. Pickard Road corridor in the East DDA District.
Mid-Michigan Industries 2426 Parkway Drive Mount Pleasant, MI 48858	Maintenance of benches and trash receptacles along the E. Pickard Road corridor in the East DDA District.
	General litter pickup and sweeping along the E. Pickard Road corridor in the East DDA District prior to the Memorial Day, Independence Day, and Labor Day holidays.
Block Electric Co. 350 S. Meridian Road Mount Pleasant, MI 48858	Maintenance of streetlighting and accent lighting and installation of streetlight banners along the E. Pickard Road corridor in the East DDA District.
Doug's Small Engine Repair 5293 E. Pickard Road Mount Pleasant, MI 48858	Snowplowing and winter maintenance of the sidewalks along E. Pickard Road, E. Remus Road, and S. Lincoln Road in the East and West DDA District.
Goenner Lawn Care LLC 441 W. Remus Rd. Road Mount Pleasant, MI 48858	Mowing, trimming, and curb and sidewalk edging for public lawn areas along the E. Pickard Road corridor in the East DDA District.
Thielen Turf Irrigation, Inc. 600 Industrial Drive Mount Pleasant, MI 48858	Irrigation system maintenance along the E. Pickard Road corridor in the East DDA District.
BeGreen, Inc. 9085 S. Vandecar Road Shepherd, MI 48883	Weed control and fertilization treatments along the E. Pickard Road corridor in the East DDA District.
Price Mini-Storage 4695 E. Pickard Road Mount Pleasant, MI 48858	Lease of enclosed storage space for keeping of equipment, off-season banners, and supplies for the East and West DDA Districts.
Hometown Decoration & Display LLC 2645 24 th Avenue Hudsonville, MI 49426	Furnish, provide, and install holiday decorations, display equipment, and materials along the E. Pickard Road corridor in the East DDA District.
Isabella County Road Commission 2261 E. Remus Road Mount Pleasant, MI 48858	Participation agreements for funding of road projects within the East and West DDA Districts for which the Road Commission has responsibility to complete.
Charter Township of Union 2010 S. Lincoln Road Mount Pleasant, MI 48858	Participation agreements for funding of municipal water and sanitary sewer projects within the East and West DDA Districts for which the Township Public Services Department has responsibility to complete.

Statement Regarding Expenditure of Funds

For tax increment revenues described in the annual audit, all funds have been expended within five (5) years of their receipt. The Township's Finance Director, Sherrie Teall, has prepared separate Annual Financial Reports for the East and West DDA Districts for filing with the Michigan Department of Treasury in accordance with the financial reporting requirements in Section 911 of Public Act 57 of 2018.

List of Accomplishments

The following is a list of EDA Board accomplishments, including progress made on development and tax increment finance plan goals and objectives:

1. Funding support for complete reconstruction of S. Lincoln Road south from the bridge over the Chippewa River to the E. Broomfield Road intersection and of E. Broomfield Road from this intersection east to near Crawford Road as three (3) lane Class A all-season roadways with paved shoulders to expand the Class A road network for trucks and availability of safe routes for bicyclists. Work completed by the Road Commission in 2022.
2. Demolished the functionally obsolete office building at 5800 E. Pickard Road and completed site preparation and staging of equipment for construction in 2023 of the new municipal sanitary sewer pump station to replace Pump Station #1 on the property to expand service capacity for the Enterprise Industrial Park and surrounding commercial and industrial land.
3. Completed purchase of the lot at 2120 Yats Drive and asbestos removal in preparation for demolition of the blighted building for purposes of neighborhood stabilization and blighted property restoration. Demolition and site restoration completed in early 2023.
4. Funding support for a new Crew Car courtesy vehicle for use by flight crews on layover to visit East DDA and West DDA District businesses and other local amenities, which became available in June of 2022 and has proved to be very popular.
5. Township staff successfully worked with the Michigan Department of Transportation (MDOT) officials to develop a plan for reconstruction of E. Pickard Road (M-20) from west of the US-127 interchange to Packard St. that preserved and extended Township streetlighting investments and provided for future re-installation of the underground irrigation system along the road margins through MDOT contractor installation of capped four-inch conduits under driveways and streets along both sides of the corridor.
6. Continued to implement the DDA Grant Program for beautification, pedestrian access improvements, and signs with additional outreach to eligible businesses in the East DDA and West DDA District.
7. Art Reach of Mid-Michigan Annual Festival of Banners along the E. Pickard Road (M-20) corridor in the East DDA District.

Projects and Investments in 2022

The following is a list of EDA Board projects and investments in the East and West DDA Districts:

Current Projects and Investments		Status
a.	Art Reach of Mid-Michigan Annual Festival of Banners along the E. Pickard Road corridor (East DDA).	Banners completed and installed
b.	Installation and maintenance of Welcome Banners in collaboration with the City of Mount Pleasant, Mount Pleasant Area Convention and Visitors Bureau, and Middle Michigan Development Corporation (East DDA).	Banners installed with seasonal changes
c.	Jameson Park building and site improvements (East DDA).	Building renovation and all planned site improvements completed
d.	Complete reconstruction of S. Lincoln Road south from the bridge over the Chippewa River to the E. Broomfield Road intersection and of E. Broomfield Road from this intersection east to near Crawford Road as a Class A all-season roadway with paved shoulders (West DDA).	Construction completed
e.	Construction of the new municipal sanitary sewer pump station to replace Pump Station #1 at 5800 E. Pickard Road to expand service capacity for the Enterprise Industrial Park and surrounding commercial and industrial land (East DDA).	Contractor secured and equipment ordered in 2022; construction to be completed in 2023
f.	Planning and design for reconstruction of existing roads in the East DDA District industrial area around N. Packard Road, E. Airport Road, Park Place, and Corporate Way as Class A all-season roadways (East DDA).	Funds budgeted
g.	Annual funding transfer to the Fire Fund in support of the fire service delivery contract with the City of Mount Pleasant (East DDA and West DDA).	Completed
h.	Annual funding support to the Middle Michigan Development Corporation for local economic development initiatives and activities (East DDA and West DDA).	Completed
i.	Annual funding support to the Mt. Pleasant Area Convention and Visitors Bureau in support of destination marketing activities (East DDA and West DDA).	Completed
j.	Annual funding support for operation and maintenance of the Mt. Pleasant Airport Crew Car courtesy vehicle for use by flight crews on layover to visit local businesses and amenities (East DDA and West DDA).	Completed

Current Projects and Investments		Status
k.	Continued to implement a beautification grant program to encourage local businesses to undertake private landscaping improvement and site beautification projects on existing lots (East DDA and West DDA).	Completed
l.	Continued to implement a pedestrian access improvements grant program to encourage local businesses to undertake installation of barrier-free pedestrian access improvements to existing buildings (East DDA and West DDA).	Completed
m.	Continued to implement a freestanding signage improvements grant program to support private improvement projects to replace existing freestanding business signage with new monument-style ground signs (East DDA and West DDA).	Completed

Events and Promotional Campaigns in 2022

The following is a list of EDA Board events and promotional campaigns:

1. Art Reach of Mid-Michigan Annual Festival of Banners along the E. Pickard Road (M-20) corridor in the East DDA District.
2. Display of seasonal Welcome Banners at the M-20/US-127 interchange gateway entrances into the East DDA District.
3. Collaboration with and financial support for the destination marketing activities of the Mount Pleasant Area Convention and Visitors Bureau to market and grow the business community in the East DDA and West DDA Districts.
4. Collaboration with and financial support for the economic development activities of the Middle Michigan Development Corporation to market and promote available properties and assist local manufacturing, industrial, and commercial businesses in the East DDA and West DDA Districts.

Progress on Development/Tax Increment Finance Plan Goals and Objectives

The EDA Board continued to make good progress towards completion of specific project priorities listed in the Development and Tax Increment Financing plans for the East and West Downtown Development Authority Districts. All projects included in this report are consistent with the goals and objectives of these plans.

For 2023, the EDA Board will be moving forward to implement the project priorities outlined in the DDA Districts’ development plans and specified in more detail in the associated Implementation Strategies for each DDA District.

**2022 Annual Synopsis of EDA Board Activities
Charter Township of Union**

The EDA Board and Township staff will also continue to work with MDOT officials and contractors for the M-20 road reconstruction project to coordinate removal and re-installation of the Township's streetlighting system; and will work with the East DDA District's irrigation service contractor to plan for re-installation of the East DDA District's underground irrigation system along the road margins in 2024.

All projects included in this report are consistent with the goals and objectives of these plans.

To: Economic Development Authority Board **DATE:** June 7, 2023
FROM: Rodney C. Nanney, AICP **DATE FOR CONSIDERATION:** June 20, 2023
Community & Economic Development Director

ACTIONS REQUESTED: To approve a FY2023 budget amendment in the amount of \$21,000.00 to be split equally between the East DDA 248 Fund & West DDA 250 Fund for the bulk digitization of historical DDA District records in accordance with the state Records Reproduction Act and applicable state standards for capturing digital images from paper records, and to authorize the Township Manager to enter into a service agreement with Graphic Sciences for this work.

Current Action Emergency

Funds Budgeted in 2023: No If Yes Account # _____

Finance Approval ST _____

BACKGROUND INFORMATION

Earlier this year, staff prepared a draft bid proposal for bulk digitization of these stored documents. However, just before the request for bids was ready to be published and posted, the Township Administration learned of another option for bulk digitization. The State of Michigan’s Records Management Services Office (part of the Department of Technology, Management and Budget) administers the state’s master contract with a preferred vendor (Graphic Sciences, 1551 East Lincoln St., Madison Heights, MI 48071) previously identified through a competitive bidding process for document imaging services. The following is quoted from the state office’s website:

If Michigan government agencies want to destroy the original paper or microfilm records after they are digitally imaged (scanned), Michigan's Records Reproduction Act (MCL 24.401-24.406) requires that the digital images be created in accordance with Michigan's standards for capturing digital images from paper or microfilm (effective August 15, 2005).

Services through Graphic Sciences have been made available to local government agencies, with the Records Management Services Office providing vendor oversight “to ensure that agencies receive a quality product at a fair price.” The Building Services Clerk and Community and Economic Development Director met on March 28, 2023, with a representative from Graphic Sciences to evaluate the scope of bulk digitization needs for the building plans, site plans, plats, and associated permit and approval documents in long-term storage. On March 31, 2023, Graphic Sciences provided a detailed cost proposal based on the observed contents of the basement file storage, with detailed breakdowns by subject area or file type.

Included in long-term storage are a large number of “Economic Development” documents, which are the historical files for both the East and the West Downtown Development Authority Districts). These files include meeting minutes, plans, and a variety of other records.

SCOPE OF SERVICES AND ANTICIPATED COST

The following is a summary of the proposed timing for bulk digitization of various file types, in the same order as the Graphic Sciences proposal:

Subject Area or File Type	Anticipated Cost	Anticipated Completion	Budget - Department
Books/Manuals	\$2,224.08	2024	371 Building
Zoning	\$30,855.19	2024	701 Planning
Economic Development (EDA Board)	\$20,752.63	2023	248 & 250 East/West DDA Funds
Building/Construction	\$80,563.60	2023	371 Building
ZBA Minutes	\$2,202.57	2024	701 Planning
Bound Meeting Books	\$1,905.30	2024	215 Clerk

JUSTIFICATION

Effective records management focuses on the way that records are created, maintained, stored, and accessed, and includes digitization of paper records in a standardized and searchable format. However, the Township still has a large number of older paper records in the basement that must be maintained and require time-consuming manual searches.

The following is quoted from the state Records Management Services Office website:

Scanning paper documents can save storage space, and that translates into dollars saved. One four-drawer filing cabinet full of documents typically contains 10,000 single-sided pages. For most document imaging applications, a single CD-ROM disc can hold that number of images. Similarly, the contents of two file cabinets will fill one gigabyte (GB) of magnetic disk storage when scanned.

Completion of this project is essential for efficient use of staff resources to process record requests, to reduce the need to maintain safe bulk storage of paper records, and to improve access to the Township’s public records.

BOARD OF TRUSTEES GOALS ADDRESSED

Board of Trustees goals addressed (from Policy 1.0: Global End):

1. Community well-being and common good

Completion of the bulk digitization will significantly improve access to these stored documents, which will help to make the most efficient use of Township staff resources (1.0) to respond to Freedom of Information Act (FOIA) requests and to ensure that these records are available and easily accessible for the foreseeable future. Completion of this project will also help to ensure that the Township continues to serve as a key information source (1.1.2) for Township residents, property owners, and business owners.

PROJECT TIMETABLE

If approved, digitization of “Economic Development” documents is would be completed this year.

RESOLUTION

To approve a FY2023 budget amendment in the amount of \$21,000.00 to be split equally between the East DDA 248 Fund & West DDA 250 Fund for the bulk digitization of historical DDA District records in accordance with the state Records Reproduction Act and applicable state standards for capturing digital images from paper records, and to authorize the Township Manager to enter into a service agreement with Graphic Sciences for this work.

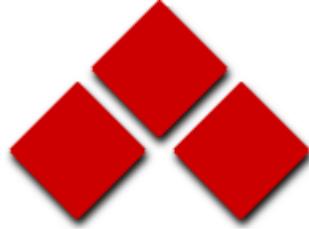
Resolved by _____ Seconded by _____

Yes:

No:

Absent:

Thomas Kequom, EDA Board Chair



GRAPHIC SCIENCES

Your Partner in document and information management

1551 East Lincoln • Madison Heights, MI 48071 • 248.549.6600 • fax 248.549.2760

E-Mail me at jillians@gsiinc.com

Overview of the Charter Township of Union

A review of the Charter Township of Union file collection was performed for the purpose of determining the volume, condition and structure of the files that are under consideration for a digital conversion. The files are currently stored at Union Township Hall in boxes, drawers and in rolls. As a result of the overview an estimate of the conversion costs is also provided.

The file naming will be determined by collection. The images will reside in BS&A.

Conversion Estimate:

Type	Estimated Images	Estimated Files	File Naming
Books /Manuals	18,900	108	Name on Spine of book or cover
Zoning	38,985	972	BS&A Import
Economic Development	114,475	288	BS&A Import
Building/Construction	237,675	2,520	BS&A Import
ZBA Minutes	18,200	26	Name on Spine of book or cover
Bound Meeting Books	12,000	24	Name on Spine of book or cover
FOIA MISC Boxes	22,400	8	Label on Box

Conversion Cost Estimate:

Books /Manuals				
ITEM	VOLUME	UNIT	UNIT PRICE	Total Price
Document Prep	40	Per Hour	\$22.0976	\$883.90
Scan Paper	18,900	Per Page	\$0.0688	\$1,300.32
File Naming	3,240	Per Character	\$0.0123	\$39.85
Pickup & Delivery	2	Trips	No Charge	
			Totals	\$2,224.08

Zoning				
ITEM	VOLUME	UNIT	UNIT PRICE	Total Price
Document Prep	152	Per Hour	\$22.0976	\$3,358.84
Scan Paper	14,685	Per Page	\$0.0688	\$1,010.33
File Naming	29,160	Per Character	\$0.0123	\$358.67
Drawing Scanning	24,300	Per Page	\$1.0752	\$26,127.36
Pickup & Delivery	2	Trips	No Charge	
			Totals	\$30,855.19

Economic Development				
ITEM	VOLUME	UNIT	UNIT PRICE	Total Price
Document Prep	250	Per Hour	\$22.0976	\$5,524.40
Scan Paper	107,275	Per Page	\$0.0688	\$7,380.52
File Naming	8,640	Per Character	\$0.0123	\$106.27
Drawing Scanning	7,200	Per Page	\$1.0752	\$7,741.44
Pickup & Delivery	2	Trips	No Charge	
			Totals	\$20,752.63

Records Reproduction Act

The **Records Reproduction Act** (MCL 24.401 - 406) authorizes the reproduction of public records by Michigan government agencies. Agencies that want to destroy original documents and use their digital images or microfilm as their official record must create their images according to the State of Michigan's standards. These standards, and accompanying best practice documents, are available online at

www.michigan.gov/recordsmanagement/.

Records Management Services administers the State of Michigan's master contracts with a vendor who reproduces records in compliance with these standards.



Records Management Services

3400 N. Grand River Ave.
Lansing, MI 48909

517-335-9132

DTMB-ImagingServices@michigan.gov
<http://www.michigan.gov/recordsmanagement/>

Records Management Services

Records Scanning Services

Imaging and Microfilming



Challenges of Storing Paper Records

Paper records can occupy a lot of office space. They can also be difficult to search for and use. Many offices want to convert their records to digital images to save space or improve efficiency. It is important to make cost-effective decisions when selecting a technology for storing records.

Analyze the Records

Records Management Services can conduct an analysis of your recordkeeping requirements. Questions typically asked include:

- What is the record's retention period?
- What activity triggers the retention period?
- What is the volume of the records?
- How frequently are the records used?
- How many people access the records? Do multiple people need simultaneous access?
- Where are the users located?
- Are copies often sent to people outside of the office (including FOIA requests)?

- When does the reference activity change? Do the records have to be retained beyond this point in time?
- Are the records continuously modified?
- Are the records created in multiple formats (paper, e-mail, word processed documents, spreadsheets, etc.)?

The answers to these and other questions will help determine the most cost effective storage solution for the records.

Digital Imaging Solutions

Multiple issues need to be addressed when designing a digital imaging solution, including:



- How and when will the paper records be converted into digital images?
- Will the existing paper files be scanned, or just the new documents created day-forward?
- What index terms will be used to search for the images after they are created?
- How will the quality of the digital images be verified before the original paper is destroyed?
- How will the images be stored and retrieved?
- Will the images contain confidential information?

Microfilm Solutions

Microfilm is still a cost-effective solution for storing voluminous records with long or permanent retention periods. If it is created and stored properly, microfilm has a life-expectancy of 500 years. Microfilm can also be a good back-up for digital imaging systems, or a tool used for migrating images out of an existing imaging system for long term retention. Microfilm media is significantly more stable over time.



Records Reproduction Services

Please contact **Records Management Services** at 517-335-9132 to request an analysis and cost estimate. If the analysis determines that a document conversion is the best solution for your agency, Records Management Services will work with the State of Michigan's vendor to develop a Statement of Work (SOW).

To: Mark Stuhldreher - Township Manager **DATE:** June 13, 2023
FROM: Kim Smith – Public Services Director **DATE FOR BOARD CONSIDERATION:** June 20, 2023
ACTION REQUESTED: Approval of the Participation Agreement with the Charter Township of Union Board of Trustees for the Pump Station #1 Construction Project and a budget amendment to the FY2023 EDA Budget in the amount of \$160,000.00.

Current Action Emergency _____

Funds Budgeted: If yes _____ Account # 248-728-967.300 No N/A _____

Finance Approval ST

BACKGROUND INFORMATION

In FY2018, the Sanitary Sewer Capital Improvement Plan included a project to rehabilitate and upgrade Pump Station #1, which is located on Enterprise Drive and originally constructed in 1988. Due to the age and the extent of necessary improvements it was determined both a complete replacement and capacity increase was necessary in order to sufficiently provide service to the service district.

Pump station #1 is located in the East Downtown Development Association (EDDA) District. In 2018/2019 the EDA created and approved a Project Plan List. As part of this list a project to rehabilitate, and expand Pump Station #1, was approved. Based on the EDA Plan List and Township Capital Improvement Plans a funding partnership between the Economic Development Association (EDA) and the Township Sewer Fund was established to fund the project.

In 2018 a contract to design the upgraded station was awarded to Gourdie Frasier. The current station is located within a 30 x 60-foot easement and the new station which was to be built next to the existing station utilizing sheet piling and shoring to facilitate installation. Bid results received both in 2019 and 2020 reflected very high prices and research from respective bidders cited these high costs were predominantly attributed to the lack of available construction limits.

Based on this information attempts were made to contact the property owner in order to obtain a construction easement and secure a larger permanent easement. While in the process of pursuing a larger permanent easement the parcel that the existing station is located on became available for sale. The Public Service Department expressed an interest to purchase the property in order to facilitate the construction and maintenance of pump station #1. The proposed property purchase included a secondary parcel that adjoins directly to the south on Enterprise Drive. It was proposed that the station would be relocated to the south of the secondary parcel to facilitate the safe installation compliant with OSHA guidelines of the pump station, wet well, associated infrastructure, and approximately 160 LF of additional gravity sewer and force main. The layout proposed would allow for the retention and addition of the necessary easements so the construction of the station could be completed in the most cost-effective manner, ensuring safe and adequate access for installation without the need of additional sheet piling, shoring, and trench box, and provide for safe operation

and maintenance in the future. It was proposed that once the project was complete the necessary easements would be retained on the parcels and the project would allow for resale of the parcels. In 2021 Township Administration proposed to the EDA Board that they purchase the two parcels. The proposal was made because the planned station improvements provided reliable and adequate infrastructure to the EDDA District, provided sanitary sewer capacity for economic growth within the district, and would help to sustain the business community within the EDDA by removing old facilities and allowing the property to be remarketed without the sanitary sewer pump station located between the two parcels. The EDA Board agreed and the purchase of the two parcels was completed in September of 2021.

After the purchase of the property the redesign of the project was completed in late 2021 and the revised EGLE permits were received in early 2022. Upon receipt of the revised EGLE permits the project was rebid in March of 2022. One bid was received for the project from The Isabella Corporation in the amount of \$958,000.00.

Upon review of the bid prices, the total project came in higher than anticipated. The most recent cost estimate which was completed in 2021 when Township Administration was considering the purchase of the property was \$702,075.00. It was been determined that the current bidding market, equipment availability, increased equipment prices, labor availability, recent increased fuel prices, and increased labor cost all contributed to the increased bid price received. This has been evident in other projects and purchases bid in late 2021 and 2022.

After delays in equipment delivery construction of the project began in the Spring of 2023. For several years funds in the amount of \$160,000.00 were included in the Economic Development Association Budget. However, in 2023 the inclusion of these funds in the EDA Budget was overlooked.

SCOPE OF SERVICES

The project includes abandoning the existing station and installing a new submersible station including pumps, motors, variable frequency drives, piping, flow meter, installing transducer, replacing control panel, and SCADA updates within an easement on the south portion of the property and installing approximately 160 LF of sanitary sewer gravity main and force main on the west side of the parcel. The project is being completed to create additional capacity (200 REU) for existing and future users in the stations currently zoned service area as well as to rehabilitate existing aging components of the station.

JUSTIFICATION

The station upgrade has been identified in the Township's Sanitary Sewer Asset Management Plan and Capital Improvement Plan for several years as essential. Completion of this project will allow for improved reliability in the service area, benefit the EDDA District, and benefit the overall township sewer system by increasing the capacity of the pump stations for the currently zoned service area for existing and future users. The improvements will provide staff and contractors with a safer location for the installation, operation, maintenance, and increase reliability through rehabilitation of aging station

components. Further delay of this project may result in system component failures, and impact growth and development within the service area.

PROJECT IMPROVEMENTS

Board of Trustees goals addressed by this agreement (From Policy 1.0: Global End).

1. **Community well-being and common good**
2. **Health and Commerce**

COSTS

Project Cost:

Engineering Cost (Station Design, SCADA Design, Construction Observation, Close-out, & start-up services – previously approved)	\$96,860.00
Construction Cost	\$958,000.00
Total	\$1,054,860.00

PROJECT FUNDING

Township Sanitary Sewer Fund	\$669,489.00
EDA Funding (EDDA) – <i>if approved</i>	\$160,000.00
SCIT 2% Funding	\$225,371.00
Total Project Funding	\$1,054,860.00

Approval of the Participation Agreement requires a budget adjustment to the EDA FY2023 Budget in the amount of \$160,000.00.

PROJECT TIME TABLE

Construction 2023

RESOLUTION

Approval of the Participation Agreement with the Charter Township of Union Board of Trustees for the Pump Station #1 Construction Project and a budget amendment to the FY2023 EDA Budget in the amount of \$160,000.00.

Resolved by _____ Seconded by _____

Yes:
No:
Absent:

Thomas Kequom, EDA Chair

Economic Development Authority Participation Contract

This Agreement is made and entered into by and between the Charter Township of Union Board of Trustees, County of Isabella, hereinafter referred to as the “**Township Board**” and the Economic Development Authority Board for the Charter Township of Union, County of Isabella, hereinafter referred to as the “**EDA**”, for the following improvements:

Pump Station #1 Construction Project – 2055 Enterprise Drive

Construction Cost	\$ 958,000.00
Design & Bidding Services Contract (Phase I & II)	<u>\$ 96,860.00</u>
Total Project Estimated Cost	\$1,054,860.00
Charter Township of Union Share	\$ 669,489.00
SCIT 2% Funding	\$ 225,371.00
EDA Funding (EDDA)	<u>\$ 160,000.00</u>
Total Project Resources	\$1,054,860.00

Payment as stated above will be due upon receipt of invoice. Projects which carryover between fiscal years may be billed as the ratio of costs incurred to date.

The undersigned EDA officials, by executing this agreement, certify they are authorized to enter into this agreement on behalf of the EDA.

**Charter Township of Union Economic
Development Authority**

Charter Township of Union Board of Trustees

By: _____
Thomas Kequom, Chair

By: _____
Mark Stuhldreher, Manager

EDA Approval on: _____

Board Approval on: _____

TO: Economic Development Authority Board **DATE:** June 9, 2023
FROM: Rodney C. Nanney, AICP **DATE FOR CONSIDERATION:** June 20, 2023
Community and Economic Development Director

ACTIONS REQUESTED: To review the proposals received in response to an Invitation to Bid to refurbish the East DDA District streetlights removed from the E. Pickard Road corridor during the M-20 reconstruction project, and to provide direction to staff.

Current Action Emergency

Funds Budgeted in 2023: No If Yes Account # _____

BACKGROUND INFORMATION

As part of the M-20/E. Pickard Road reconstruction project, the Michigan Department of Transportation (MDOT) arranged for the temporary removal of 47 East DDA District streetlights from both sides of the road within the project area. J. Ranck Electric is the electrical contractor for the M-20 reconstruction project and was responsible for the streetlight removals. The fixtures are currently disassembled and securely stored inside shipping containers on the J. Ranck Electric service yard.

It was noted by the contractor and also observed by Township staff that the paint (a factory-applied, baked-on powder-coat paint surface) on portions of some of these cast iron streetlights is in a weathered condition – primarily in areas closer to ground level and on fixtures that were located closer to the roadway or an intersection.

Powder coating is a method of applying a very durable “painted” surface to cast iron and similar heat-tolerant metal surfaces. It requires the fixtures to be removed and dismantled. It involves a multi-step surface finishing process in which dry, free-flowing, thermoplastic or thermoset powder material is applied to a pretreated surface, melted, and then dried and hardened through heat curing into a protective coating that is generally more durable than a liquid paint finish.

Staff sent an Invitation to Bid to seven (7) companies in the region that confirmed they could potentially provide the requested sandblasting and powder-coat painting services to restore the fixtures to their original condition. A pre-bid site visit was held on-site at the J. Ranck Electric service yard on May 3, 2023 for interested contractors to view the fixtures. The Invitation to Bid for the Street Light Poles Sandblasting and Powder Coating Project included the following work elements:

1. Transport of 47 Street Lights housed in (4) 40-foot shipping containers. Poles, arms, and luminaire are located in separate containers and banner brackets are still in place. All internal wiring has been removed.
2. Arrange for pick-up and drop off and securing of containers for travel.
3. Partial disassembly may be required.

4. Sand blast and powder coat of cast streetlight poles, arm, luminaire, and banner brackets, black in color.
5. Work to be completed and containers returned by September 15, 2023.

EVALUATION

The Township received a total of five (5) proposals from three (3) companies, as follows:

Bidder	Bid Recommendation	Bid Amount
Superior Powder Coating & Media Blasting	Sandblast & Powder Coat	\$157,500.00
J. Ranck Electric	Sandblast & Powder Coat	\$82,050.00
BlasTek	Blast & Paint (Wet spray) 3 coats	\$59,030.00
BlasTek	Blast & Paint (Wet spray) 2 coats	\$54,460.00
J. Ranck Electric	Paint Poles in Place	\$18,000.00

However, one (1) of the bids arrived late and the majority of bids were not fully responsive to the request or proposed alternatives to the requested powder-coat painting. Staff has evaluated the bids and has identified several potential options for EDA Board consideration related to potential refinishing of the streetlights:

1. To reject all of the current bids and to do nothing at this time with streetlight painting or powder coating. The stored fixtures will be reinstalled later this year prior to completion of the current phase of the M-20 reconstruction.
2. To consider issuing a future request for bids to re-paint some or all of the streetlights in-place in 2025 after all of the roadwork has been completed, and following an evaluation of the specific condition of each fixture.
3. To review and consider the two (2) current bids for sandblasting and powder coating (this action will also require action on a FY2023 East DDA Fund budget amendment).

JUSTIFICATION

The EDA Board oversees the Townships East Downtown Development Authority District and has invested substantial resources in the establishment and maintenance of streetlights along the E. Pickard Road (M-20) corridor in the East DDA District, which continues to attract new businesses and encourage growth for both new and existing businesses. The proposed scope of work would help to ensure that the reinstalled streetlights continue to safely serve their safety and aesthetic functions well into the future.

BOARD OF TRUSTEES GOALS ADDRESSED

Board of Trustees goals addressed (from Policy 1.0: Global End):

- 1. Community well-being and common good**
- 3. Safety**
- 6. Commerce**

Maintenance of the streetlights along E. Pickard Road corridor is essential for the safety (1.3) and well-being of the members of our community (1.1). The streetlights will continue to make the E. Pickard Rd. corridor an attractive business district to support the local economy (1.6). An attractive business district helps all residents, visitors, and prospective business investors to feel welcomed (1.1.1) and take pride in and engage with the community (1.1.1.3).

PROJECT TIMETABLE

The streetlights are expected to be put back into place during the month of September 2023. The current phase of this two-year road reconstruction project is scheduled to wrap up before November 15, 2023.

RESOLUTION

By general consensus of the EDA Board or by motion to provide direction to staff:

- 1. To reject all of the current bids and to do nothing at this time with streetlight painting or powder coating.
- 2. To consider issuing a future request for bids to re-paint some or all of the streetlights in-place in 2025 after all of the roadwork has been completed, and following an evaluation of the specific condition of each fixture.
- 3. To review and consider the two (2) current bids for sandblasting and powder coating (this action will also require action on a FY2023 East DDA Fund budget amendment).

Resolved by _____ Seconded by _____

Yes:
No:
Absent:

Thomas Kequom, EDA Board Chair



6165 Taylor Dr. Flint, MI 48507 810- 433-3386

Wednesday, May 10, 2023

Charter Township of Union
2010 S. Lincoln
Mt. Pleasant, MI 48858
Attn: Rodney C. Nanney

Re: RFB FOR STREETLIGHT SANDBLASTING AND POWDER COATING

We are pleased to submit our proposal for the management and refurbishment of forty-seven (47) USS 8060D24 ABDAV Street Light Assemblies within the East DDA district.

Our proposal outlines the means, methods, materials, and timing to manage the refurbishment of the light pole assemblies; however, the exact timing must be approved by J. Ranck Electric as the material currently resides on their property, and with Block Electric as they will be disassembling and assembling and testing the light fixtures.

Superior Powder Coating and Media Blasting is ISO 9001 Certified and has the capacity and expertise to manage this project.

If you have any further questions regarding this proposal, please feel free to contact me at your convenience.

Thank you for the opportunity,

Matthew Clor
President
Superior Powder Coating a Media Blasting Inc
O:810-433-3386
C:248-388-2994
E: Matt@superiorpowdercoating.net

RFB for Streetlight Sandblasting and Powder Coating

BACKGROUND

Our proposal is for the Refurbishment of forty seven (47) USS 8060 D24SBDV light pole assemblies that currently reside in multiple pieces secured in four (4) shipping containers at J. Ranck Electric, located at 1993 Gover Pkwy, Mt Pleasant, MI.

Refurbishment is defined as the following:

- 1) Palletizing of (47) Arms, Bases, and Fixtures to make (24) shippable pallets.
- 2) Coordinate the transportation of 24 Pallets and 47 light poles.
- 3) Disassembly of Base / Pole and Fixtures.
- 4) Block Electric to disassemble, and tag fixture components, (Hardware, Led and Drivers)
- 5) Media Blasting and Stripping to remove paint/powder and oxidation on all lighting components.
- 6) 2-Stage Powder Coating of all lighting components
- 7) Palletizing and Transport of Fixture and Components to Block Electric
- 8) Palletizing and Shipping of Poles, Arms and Base plates to J. Ranck Electric.

PALETIZING and TRANSPORTATION

Since the Light Pole components are located on private property, and were placed loose in shipping containers, the parts would be severely damaged if the containers were transported. We are proposing to coordinate the unloading and palletizing of the parts in the shipping containers with J. Ranck Electric.

Superior Powder Coating will supply custom shipping pallets and labor to unload and palletize the Arms, Fixtures and Base Plates for shipping. Superior Powder Coating will coordinate that work with J. Ranck Electric in accordance with their on-site safety procedures and requirements.

Estimated Pallet Requirement for Arms, Fixtures and Baseplates:

<i>Part Description</i>	<i>Pallet Size</i>	<i>Est Parts Per Pallet</i>	<i>Pallets Required</i>
Arms	48 x 120	10	5
Fixtures	48 x 96	3	16
Base Plates	48 x 48	12	1 - 4

We estimate 24 pallets are required to palletize the arms, fixtures, and base plates for shipment. We will schedule the pallet delivery to J. Ranck Electric, one day prior to palletizing.

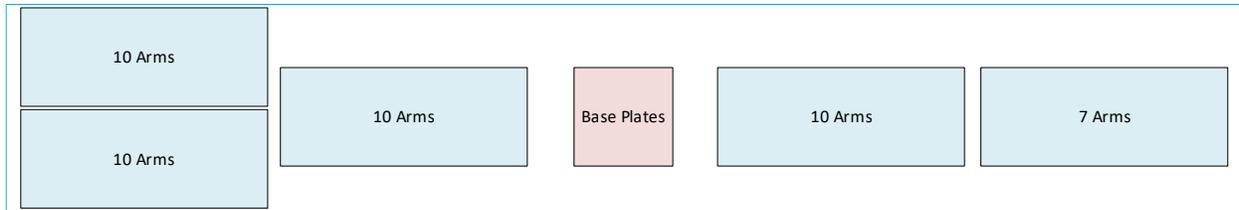
A fork truck and operator from J. Ranck electric will be required to move and shuffle the pallets and stage them for shipping.

J. Ranck Electric is responsible to load pallets on the flatbed trucks.

We are proposing the following dates for Pallet Delivery, Palletizing, and Pick up of 24 pallets.

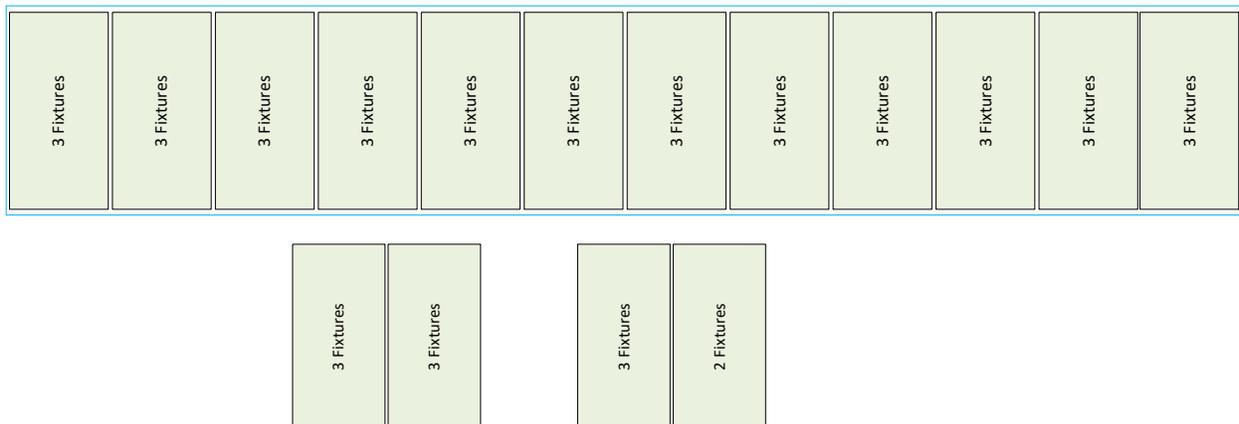
Pallet Delivery	6-5-2023
Palletizing	6-7-2023
Pick Up	6-9-2023

Two 53' flatbed trucks are required to transport the 24 pallets as described below.



The Arms and Bases will be picked up from J. Ranck Electric and delivered to SPC on 6-9-2023.

The Fixtures will be picked up from J. Ranck Electric and delivered to Block Electric for disassembly on 6-9-2023.



Two additional stake truck shipments required to get all (47) Fixtures to Block Electric.

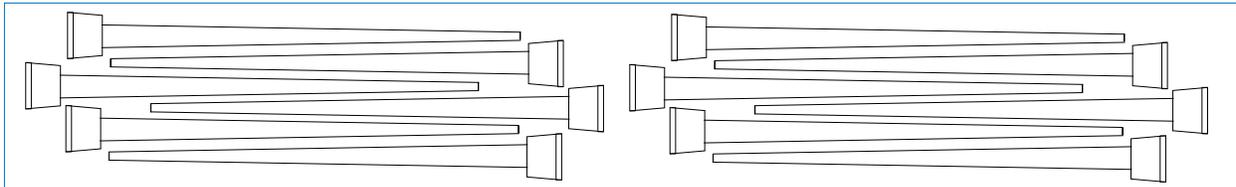
The bases and arms will be processed, which includes Disassembly, Media Blasting, Epoxy Prime and Powder Coat, Inspection and Packaging.

The truck shipment of Refurbished Base Plates and Arms will be delivered to J. Ranck Electric on or before 7-10-2023. The Refurbished Base Plates and Arms to be stored at J. Ranck Electric.

The Fixture Components will be picked up from Block Electric after disassembly is complete. The fixture components will be chemically stripped, Epoxy Primed, Powder Coated, Inspected and Packaged.

The Refurbished Light Fixture Components will be assembled and tested by Block Electric and delivered to J. Ranck Electric.

We are proposing that the Poles be loaded 12 per flatbed truck as depicted below. J. Ranck Electric will be responsible for unloading the poles from the shipping containers and loading them on the trucks. We are estimating 12 posts per semi load and will coordinate the transportation pick up dates with J. Ranck Electric. Posts can be loaded with a strap and placed directly on the flatbed truck.



53' Flat Bed Truck or Curtain Side

We are proposing 4 pickups and deliveries per the schedule below.

Pickup - J. Ranck	Delivery To - SPC	Pick Up - SPC	Deliver To - J. Ranck
7-10-2023	7-10-2023	7-24-2023	7-24-2023
7-24-2023	7-24-2023	8-7-2023	8-7-2023
8-7-2023	8-7-2023	8-21-2023	8-21-2023
8-21-2023	8-21-2023	9-6-2023	9-6-2023

DISASSEMBLY / ASSEMBLY

For proper refurbishment, the light pole assemblies must be disassembled before Blasting, Stripping and Powder Coat.

We will disassemble the bases from the light poles, and all fasteners will be separated, boxed, tagged, and returned.

J. Ranck Electric is responsible to Assemble the Light Pole to the Base.

The light fixture will be disassembled by Block Electric and all fasteners, plastic components, LED and Driver(s) will be separated, boxed, tagged.

The refurbished light fixture components will be shipped to Block Electric for Assembly and testing.

Assembled fixtures will be palletized and shipped to J. Ranck Electric.

POWDER COAT

All Arms, Baseplates, Poles, and Brackets will be media blasted to remove paint and oxidation.

The light fixture components will be chemically stripped to remove existing powder and oxidation. The fixture is too thin to be blasted.

Powder Coating will be 2-stage consisting of a primer coat with PPG Ultra Primer under a topcoat of PPG RAL 9005 ENVIROCRON® Ultra Durable Powder Coat

PROJECT MANAGEMENT

Superior Powder Coating will manage the refurbishment of the light pole assemblies. We will coordinate the transportation and movement of components with J. Ranck Electric, and Block Electric to ensure refurbished Light Pole Components are delivered to J. Ranck Electric on or before the required dates.

All components will be coated with PPG Powders.

DISCLAIMERS

- All light components will be inspected after receipt at Superior Powder Coating
- Superior Powder Coating is not responsible for any broken, cracked, or dented components.
- Cost and replacement of broken, cracked, or dented component is the responsibility of Union Township

COST

Total Cost for Refurbishment of (47) Light Pole Assemblies as outlined above **\$ 157,500.00**

PAYMENT TERMS

Net 30 on (5) invoices at \$31,500.00 after each of the 5 scheduled shipments outlined above.

Attachments:

- TDS – PPG Ultra Primer
- TDS – PPG RAL 9005
- ISO Certification
- SPC Warranty



Highlights

PPG's Envircryl™ and Envirocron™ powder coatings are aesthetically pleasing, produce a durable uniform finish and can be custom formulated with finishes from high gloss to low gloss, and in a variety of textures.

PPG's "World Class" Epoxy Powder Coatings provide a combination of good physical and chemical resistance properties. This extensive line of Epoxy Powders is manufactured to meet the increasing requirement demands of the automotive and industrial markets. These sophisticated Epoxies are the solution to your smoothness, low-bake, durability and physical property requirements. An unsurpassed application development program enables consistently friendly use on a variety of substrates.

Product Features

Industry leading corrosion properties

Fortified with corrosion inhibitor

Can be applied via DOD (Dry on dry), hot flock, gel or full cure.

Compliant to ISO 12944-6 C5-M High requirements over 2-3 mil profile blasted cold rolled steel and top coated with an appropriate polyester powder coating

Semi-conductive to help with acceptance of electrostatically applied topcoat

Technical Properties

Property	Test Method	Value
Color	_____	Ultra Primer PCEL160002
Appearance		Smooth
Gloss	ASTM D-523	0.0 - 10 @ 60°
Adhesion	ASTM D-3359	100% (5B Pass)
Hardness	ASTM D-3363	2H Pencil (Eagle)
Impact Resistance	ASTM D-2794	80 In.-lbs. Direct 80 In.-lbs. Direct
Conical Mandrel	ASTM D-522	1/8" - No Cracking
Salt Spray	ASTM B-117	5000 hours Pass 1000 Hours (degrease only) - Pass
Humidity	ASTM D-1735	100F, 100% RH - 2000+ hours
Scab Corrosion	SAE-J2334	120 Cycles-Pass

Film Properties were determined using 1.5 - 2.5 mils powder film over 22 gauge (0.032") cold rolled steel B1000 test panels. Also tested were iron phosphate treated CRS(cold rolled steel), Zirconium oxide treated CRS and Sa2.5 grit blasted CRS.

Application Data

Application Type:	Electrostatic Spray
Recommended Bake:	10 Minutes at 340 °F Metal Temperature See Cure Curve PCM-028
Specific Gravity:	1.55 ± .05
Theoretical Coverage:	124 Sq. Ft. per pound at 1.0 mil
Shelf Life from Date of Manufacture (@40-60% RH):	77 °F Maximum - 12 Months

*PPG recommends that all material be used in FIFO order (first in - first out).
Materials that exceed the recommended shelf life should be tested prior to use.*



* Statements and methods described herein are based upon the best information and practices known to PPG Industries, Inc. ("PPG"). Any statements or methods mentioned herein are general suggestions only and are not to be construed as representations or warranties as to safety, performance, or results. Since the suitability and performance of the product is highly dependent on the product user's processes, operations, and numerous other user-determined conditions, the user is solely responsible for, and assumes all responsibility, risk and liability arising from, the determination of whether the product is suitable for the user's purposes, including without limitation substrate, application process, pasteurization and/or processing, and end use. No testing, suggestions or data offered by PPG to the user shall relieve the user of this responsibility. PPG does not warrant freedom from patent infringement in the use of any formula or process set forth herein. Continuous improvements in coatings technology may cause future technical data to vary from what is in this bulletin. Contact your PPG representative for the most up to date information.

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We protect and beautify the world™



External Testing

TEST REPORT

REPORT I.D.: **2259-13A**
CUSTOMER NAME: **PPG Industries**

DATE: **June 28, 2018**
Rev. 2

ADDRESS: 3333 N. Interstate 35
Gainesville, TX 76240

SAMPLES: **9 Panels**

Specification: ISO 12944-6:1998 C5-M High

DATE RECEIVED: 3/20/18

PURCHASE ORDER: Credit Card

CONDITION AS RECEIVED: Good

Tape Adhesion per ISO 2409-13

Sample ID	Film Thickness per ISO 2808-07 (mm)	Rating	Pass/Fail
1	152.6	0	Pass
2	131.6	0	Pass
3	142.0	0	Pass

Humidity per ISO 6270-2(05)

Test Dates: 3/28-4/27/18

Duration: 720 Hours

Sample ID	Film Thickness per	ISO	ISO 4628-	IS	ISO	ISO 2409	Pass/Fail
19	175.2	0(S0)	Ri0	0(S)	0(S0)	0	Pass
20	139.0	0(S0)	Ri0	0(S)	0(S0)	0	Pass
21	158.2	0(S0)	Ri0	0(S)	0(S0)	0	Pass



We protect and beautify the world™

TEST REPORT (Cont.)

PORT I.D.: 2259-13A

CUSTOMER NAME: PPG Industries

Salt Spray per ISO 9227-17 NSS

Test Dates: 3/29-5/28/18

Duration: 1440 Hours

Sample ID	Film Thickness per ISO 2808-07 (mm)	ISO 4628-2 Rating	ISO 4628-3 Rating	ISO 4628-4 Rating	ISO 4628-5 Rating	ISO 2409 Rating	Creep from Scratch, M (mm)	Pass/Fail
37	150.4	0(S0)	Ri0	0(S0)	0(S0)	0	0.00	Pass
38	137.0	0(S0)	Ri0	0(S0)	0(S0)	1	0.97	Pass
39	145.4	0(S0)	Ri0	0(S0)	0(S0)	0	0.00	Pass

Sample Legend:

Samples	Description
I-3, 19-21, 37-39	CRS, SP5, 2-3 Mills Blast, PCMT70101, B2654 + PCTT99115, 72974

This report was modified to separate samples.

These testing results apply only to the samples submitted as received.

Christa Lammers

6/28/18

Christa Lammers
 Laboratory Manager

Date

Thank you for your business.



Highlights

PPG's Enviracryl™ and Envirocron™ powder coatings are aesthetically pleasing, produce a durable uniform finish and can be custom formulated with finishes from high gloss to low gloss, and in a variety of textures.

PPG's "World Class" Ultradurable Polyester Powder Coatings provide a combination of good physical and chemical resistance properties with excellent resistance to outdoor weathering. This extensive line of Polyester Powders is manufactured to meet the increasing requirement demands of the appliance and industrial markets. These sophisticated Polyesters are the solution to your smoothness, low-bake, durability and physical property requirements. An unsurpassed application development program enables consistently friendly use on a variety of substrates.

Product Features

Available in a wide range of colors and glosses

Excellent Exterior durability

Good chemical resistance

Specifically formulated to meet the requirements of

AAMA 2604

Technical Properties

Property	Test Method	Value
Color	_____	RAL 9005 Jet Black UD
Appearance		Smooth
Gloss	ASTM D-523	80 Minimum @ 60°
Adhesion	ASTM D-3359	100% (5B Pass)
Hardness	ASTM D-3363	2H Pencil (Eagle)
Impact Resistance	ASTM D-2794	100 In.-lbs. Direct
Conical Mandrel	ASTM D-522	1/8" Mandrel - No Cracking
Salt Spray	ASTM B-117	1000 Hrs. Pass <1/8" Scribe Creep - No Blisters
Humidity	ASTM D-1735	1000 Hrs. Pass <1/16" Scribe Creep - No Blisters

Film Properties were determined using 2.0 - 3.0 mils powder film over iron phosphated, chrome rinse pretreated, 22 gauge, unpolished cold rolled steel test panels.

Application Data

Application Type:	Electrostatic Spray
Recommended Bake:	10 Minutes at 400 °F Metal Temperature See Cure Curve PCT-001
Specific Gravity:	1.55 ± .05
Theoretical Coverage:	124 Sq. Ft. per pound at 1.0 mil
Shelf Life from Date of Manufacture (@40-60% RH):	80 °F Maximum - 12 Months

*PPG recommends that all material be used in FIFO order (first in - first out).
Materials that exceed the recommended shelf life should be tested prior to use.*



* Statements and methods described herein are based upon the best information and practices known to PPG Industries, Inc. ("PPG"). Any statements or methods mentioned herein are general suggestions only and are not to be construed as representations or warranties as to safety, performance, or results. Since the suitability and performance of the product is highly dependent on the product user's processes, operations, and numerous other user-determined conditions, the user is solely responsible for, and assumes all responsibility, risk and liability arising from, the determination of whether the product is suitable for the user's purposes, including without limitation substrate, application process, pasteurization and/or processing, and end use. No testing, suggestions or data offered by PPG to the user shall relieve the user of this responsibility. PPG does not warrant freedom from patent infringement in the use of any formula or process set forth herein. Continuous improvements in coatings technology may cause future technical data to vary from what is in this bulletin. Contact your PPG representative for the most up to date information.

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CERTIFICATE OF

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This is to certify that the management systems of
**Superior Powder Coating and
Media Blasting, Inc.**

have been formally assessed by
TCB Audit Services, LLC and found to comply with
the requirements of:

ISO 9001:2015

Quality Management Systems-Requirements

Scope of Registration:

Provider of powder coating, media blasting and powder stripping, custom masking, secondary assembly and fabrication of coating fixtures.

Design and developement of products/services is not applicable to the QMS.

IAF Code(s)-17

Registered Site(s):

6165 Taylor Dr., Flint, MI 48507

July 12, 2022

ISSUE DATE

July 11, 2025

EXPIRY DATE

ERIC HINSON,
CHIEF EXECUTIVE OFFICER
TCB AUDIT SERVICES, LLC



This certificate of registration is issued by TCB Audit Services, LLC, 11 Klondike Ct. O'Fallon, MO, 63368 (www.tcbaudits.com). This certificate remains the property of TCB Audit Services, LLC and must be returned upon request. It must not be altered or defaced in any way and deliberate misuse of the certificate will result in cancellation without notification. 044





Superior Powder Coating and Media Blasting Warranty

Superior Powder Coating & Media Blasting Inc. warrants that the coating process has been completed within the parameters established by its coating material and pretreatment chemical supplier(s) for a period of one year.

THE ABOVE WARRANTY IS EXPRESSED IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Superior Powder Coating & Media Blasting Inc. shall not be liable for incidental, consequential or resulting loss or damage of any kind. Buyer's sole and exclusive remedy and the limits of Superior Powder Coating & Media Blasting Inc.'s liability, including liability for negligence, shall be the purchase price of that portion of the produce proved to be defective.

The only warranty on the coating material is a pass through of any warranty provided by the coating supplier(s).

May 11, 2023

Charter Union Township
Attention: Rodney Nanney

Re: Blastek - Street Light Sandblasting & Powder Coating

Mr. Nanney, we are pleased to provide the following bid package for the aforementioned project. The following is an overview of what is included and what is excluded from the proposal.

Included: Two quotes to complete requested work. One system is 3 coats and the other is 2 coats, the next page should help outline that process. The rest is identical for each quote and will go as follows:

1. Transportation of 47 Street Lights housed in (4) 40-foot shipping containers. Poles, arms, and luminaire.
2. Arrange for pick-up and drop off and securing of containers for travel.
3. Partial disassembly if required.
4. Sand blast and coat cast streetlight poles, arm, luminaire, and banner brackets, black in color.

Exclusions:

- Any installation of light poles
- Any electrical work needed in the poles
- Any structural modifications to the poles

Please let us know if you have any questions and thank you very much for the opportunity to bid your project,

Mitchell Martin | Partner | BlasTek, LLC
616.292.4695
mitch@blastekllc.com

Mitch Martin



Blastek LLC
43 122nd Ave
Shelbyville, MI 49344
(616) 570-7826
sales@blastekllc.com

Charter Township of Union:

BlasTek has opted to bid this project using wet spray coatings instead of powder coat. There are a couple reasons for this that we and our coatings rep believe will be beneficial to the township.

Powder coating is a powder paint coating system in which dry, powdered paint is electrostatically applied to a metal part and baked on in an oven at 400 degrees. BlasTek has powder coating capabilities, but feel that a wet spray system will be superior to powder coat. Powder coating is a low mil thickness coating system. This simply means that in only a couple mils of a product will be in place to protect the steel from rusting whereas the two wetspray systems are 10 plus mils in thickness. Furthermore, the UV stability of polyester powder is 2 years with a gloss finish in constant UV exposure. The urethane top coat spec'd in our suggested system will out live the gloss retention of powder by 2-3x. In addition to the increased mil thickness and increased UV retention, the systems we are suggesting have much more anti corrosive properties. Epoxies and Zincs used as primers/intermediate coats drastically extend the life of the coating. Top coats such as urethane and polyester powder are primarily in place for gloss retention. Without a heavy mil epoxy and possibly zinc, corrosion will be imminent in a couple years. The final point I would like to bring up is that cast iron out gasses in the oven. The air trapped in small pockets in the semi porous cast is released as the part increases in temp in the oven. The pressure of those trapped gasses expands and finds its way out of the part. The problem with this is that this will create pin holes in the powder coat that will allow moisture and other environmental corrosive materials access to the cast iron substrate. These pin holes will be the first place to rust and allow that rust to continue to spread under powder coat. This will result in the powder coming off in small sheets and eventually leading to large scale coating failure.

It is our belief that using a multi coat system will drastically extend the service life of these light poles. Please let us know if any further substantiation is needed.

Thank you for your consideration.

Mitchell Martin | Partner | BlasTek, LLC

616.292.4695

mitch@blastekllc.com

Mitch Martin



Received via email

May 9th, 2023

BlasTek, LLC
Attn: Brady McNeil
43 122nd Ave
Shelbyville, MI 49344

Subject: Cast Iron Light Poles

Here are our recommendations you requested:

Zinc/Epoxy/Urethane:

- Surface Preparation:
 - In accordance with NAPF 500-03-05 Surface Preparations Standard for "Abrasive Blast Cleaning of Cast Ductile Iron Fittings"
- Prime Coat:
 - Tnemec Series 94H2O applied at 2.5-3.5 mils DFT
- Intermediate Coat:
 - Tnemec Series V69 Hi-Build Epoxoline II applied at 4.0-6.0 mils DFT
- Finish Coat:
 - Tnemec Series 1094 Endurashield applied at 2.0-3.0 mils DFT
 - Note: Series 690/1070V are also acceptable finish coats

Epoxy/Urethane:

- Surface Preparation:
 - In accordance with NAPF 500-03-05 Surface Preparations Standard for "Abrasive Blast Cleaning of Cast Ductile Iron Fittings"
- Prime Coat:
 - Tnemec Series V69 applied at 6.0-10.0 mils DFT
- Finish Coat:
 - Tnemec Series 1094 Endurashield applied at 2.0-3.0 mils DFT
 - Note: Series 690/1070V are also acceptable finish coats

As a separate attachment, I have included the Technical Data Sheets for your review.

300 E Oakland Ave., Lansing, MI 48906
Phone (517) 487-2066 Fax (517) 487-1680

Thank you,

Clayton Gallup

Clayton Gallup, Sales Representative

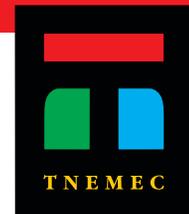
O'Leary Paint

41 Buckley SW Grand Rapids, MI 49503

Phone: (616) 233-0499 | Cell: (231) 392-3468

Email: claytong@olearypaint.com

300 E Oakland Ave., Lansing, MI 48906
Phone (517) 487-2066 Fax (517) 487-1680



COLOR CARD

WHITES, BLUES, GRAYS AND ACCENTS



00WH Tnemec White



15BL Tank White



37BL Teardrop



39BL Delft Blue



25BL Fountainbleu



26BL Clear Sky



61BL Blue Ribbon



14BL Cadet Blue



31GR Slate Gray



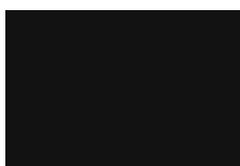
32GR Light Gray
ANSI No. 70



33GR Gray
ANSI No. 61



34GR Deep Space



35GR Black



02SF Lemon Yellow/
Safety Yellow



04SF Tangerine Orange/
Safety Orange



05SF International
Orange



17SF Safety Red



09SF Spearmint Green/
Safety Green

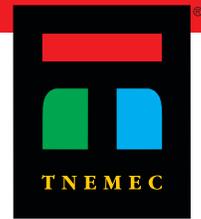


11SF True Blue/
Safety Blue



14SF Purple Rain/
Safety Purple

NOTE: Colors represented are digital reproductions of actual standards and will vary in appearance due to differences in monitor and video card output. These digital representations should not be used to finalize color selection(s). Please contact your local Tnemec Coatings Consultant for color-accurate samples or for assistance with suitable primer and finish coat selections and color matching.



COLOR CARD

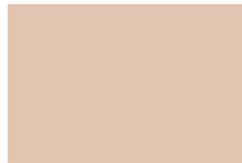
BROWNS, YELLOWS, GREENS AND REDS



57BR Cloud



15BR Pale



44BR Beige



01BR Warm Sun



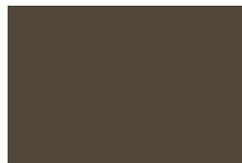
04BR Desert Sands



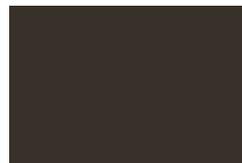
68BR Twine



06BR Amber Canyon



84BR Weathered Bark



85BR Medium Bronze



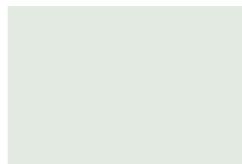
86BR Dark Bronze



22YW Barbados



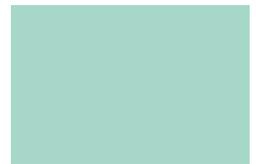
11YW Daffodil



78GN Cumulus



37GN Irish Spring



10GN Aqua Sky



110GN Clover



21GN Fairway



91GN Balsam



07RD Terra Cotta



28RD Monterrey Tile

NOTE: Colors represented are digital reproductions of actual standards and will vary in appearance due to differences in monitor and video card output. These digital representations should not be used to finalize color selection(s). Please contact your local Tnemec Coatings Consultant for color-accurate samples or for assistance with suitable primer and finish coat selections and color matching.



PRODUCT PROFILE

GENERIC DESCRIPTION

Aromatic Urethane, Zinc-Rich

COMMON USAGE

A single-component, moisture-cured, zinc-rich primer for steel structures, including the interior and exterior of steel potable water tanks. Commonly used in commercial, industrial, and marine markets in various applications to provide outstanding long-term corrosion resistance when used as a primer in conjunction with other Tnemec coatings. Series 94-H₂O has no maximum recoat time, cures quickly and offers rapid recoat at surface temperatures down to 35°F (2°C). **Note:** When used in conjunction with cathodic protection, anodes or impressed current systems should not provide current demand more negative than -1.05 volts relative to a copper-copper sulfate reference electrode half-cell.

COLORS

Greenish-gray

ZINC PIGMENT

83% by weight in dried film

SPECIAL QUALIFICATIONS

Certified (with or without 44-710 Urethane Accelerator) in accordance with **ANSI/NSF/CAN Std. 61** and the extraction requirements of **NSF/ANSI/CAN 600** and is qualified for use on interior potable water tanks of 1,500 gallons (5,678 L) or greater. Topcoating with Std. 61 certified Tnemec coatings is required. Contact your Tnemec representative for specific recommendations. Reference Tnemec's certified product listing at www.nsf.org for details on maximum allowable DFT. Meets zinc-rich primer requirements of **AWWA D102-21** Standard for **Inside System No. 3, 5 & 6** and **Outside System No. 3, 4 & 6**. Series 94-H₂O uses a zinc pigment which meets the requirements of **ASTM D 520 Type III** and contains less than .002% lead.

Series 94-H₂O meets the requirements of LEED-Low-Emitting Materials, Collaborative for High Performance Schools-Paints & Coatings, WELL Building Standard-VOC Restrictions, and Living Building Challenge-Healthy Interior Performance. Contact your Tnemec representative for more information.

This product is part of a coating system tested in accordance with ISO 12944-6 (2018). Contact your Tnemec representative for coating system test results.

COATING SYSTEM

TOPCOATS

Interior: Series 20, FC20, 22, FC22, L140, L140F, N140, N140F, V140, V140F, 141, 215, 406.
Exterior: Series 27WB, 66, L69, L69F, N69, N69F, 72, 73, 115, V115, 156, 161, 215, 1026, 1028, 1029, 1074, 1074U, 1075, 1075U, 1080, 1081, 1094, 1095, 1096. **Note:** Certain topcoat colors may not provide one-coat hiding depending on method of application. Contact your Tnemec representative. **Note:** Series 94-H₂O must be exterior exposed for three days prior to topcoating with Series 1028 or 1029. **Note:** Series 94-H₂O must be exterior exposed for one day prior to topcoating with Series 27WB.

SURFACE PREPARATION

Wet Interior: SSPC-SP10/NACE 2 Near-White Blast Cleaning with a minimum angular anchor profile of 1.5 mils.
Exterior or Dry Interior: SSPC-SP6/NACE 3 Commercial Blast Cleaning with a minimum angular anchor profile of 1.5 mils.

TECHNICAL DATA

VOLUME SOLIDS

62.0 ± 2.0% (mixed)

RECOMMENDED DFT

2.5 to 3.5 mils (65 to 90 microns) per coat.

CURING TIME

Without 44-710

Temperature †	To Handle	To Recoat
75°F (24°C)	2 hours	8 hours
55°F (11°C)	4 hours	12 hours
35°F (2°C)	6 hours	16 hours

† 50% relative humidity. **Note:** Refer to product listings on www.nsf.org for specific potable water return to service information. Curing time will vary with surface temperature, humidity and film thickness. **Ventilation:** When used in enclosed areas, provide adequate ventilation during application and cure.

Note: For faster curing, low humidity and low-temperature applications, add No. 44-710 Urethane Accelerator (see separate product data sheet). **Note:** For cure times to immersion service, reference the specified Tnemec interior topcoat product data sheet.

VOLATILE ORGANIC COMPOUNDS

Unthinned: 0.74 lbs/gallon (89 grams/litre)
Thinned 15% (No. 49 Thinner): 0.74 lbs/gallon (89 grams/litre)
Thinned 10% (No. 3 Thinner): 1.57 lbs/gallon (188 grams/litre)
Thinned 10% (No. 2 Thinner): 1.56 lbs/gallon (187 grams/litre)

HAPS

Unthinned: 1.68 lbs/gal solids
Thinned 15% (No. 49 Thinner): 1.68 lbs/gal solids
Thinned 10% (No. 3 Thinner): 1.72 lbs/gal solids
Thinned 10% (No. 2 Thinner): 2.84 lbs/gal solids

THEORETICAL COVERAGE

996 mil sq ft/gal (24.4 m²/L at 25 microns). See APPLICATION for coverage rates.

NUMBER OF COMPONENTS

One

PACKAGING

5 gallon (18.9L) pails (yielding 3 gallons) and 1 gallon (3.79L) cans.

NET WEIGHT PER GALLON

24.92 ± 0.60 lbs (11.30 ± 0.27 kg)

STORAGE TEMPERATURE

Minimum 20°F (-7°C) Maximum 110°F (43°C)

TEMPERATURE RESISTANCE

Dry (Continuous) 250°F (121°C) Intermittent 300°F (149°C)

SHELF LIFE

9 months at recommended storage temperature.

HYDRO-ZINC® | SERIES 94-H₂O

FLASH POINT - SETA
HEALTH & SAFETY

82°F (28°C)
Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Safety Data Sheet for important health and safety information prior to the use of this product.
Keep out of the reach of children.

APPLICATION

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m ² /Gal)
Suggested	3.0 (75)	5.0 (125)	331 (30.8)
Minimum	2.5 (65)	4.0 (100)	398 (37.0)
Maximum	3.5 (90)	5.5 (140)	284 (26.4)

Allow for overspray and surface irregularities. Wet film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. Reference the NSF website at www.nsf.org for details on the maximum allowable DFT.

MIXING

Stir thoroughly making sure no pigment remains on the bottom of the can. Use an air-driven power mixer and keep material under constant agitation while mixing. Do not use material beyond pot life limits.

THINNING

For air spray, thin up to 15% or 1 1/4 pints (570 mL) per gallon with No. 49 Thinner or thin up to 10% or 3/4 pint (380 mL) per gallon with No. 2 or No. 3 Thinner. (Use No. 2 if ambient temperatures are below 80°F (27°C) and No. 3 if above 80°F (27°C).) For brush or roller, thin up to 5% or 1/4 pint (190 mL) per gallon with No. 49 Thinner or thin up to 10% or 3/4 pint (380 mL) per gallon with No. 2 or No. 3 Thinner. Thinning is normally not required for airless spray. **Note:** No. 49 Thinner may be used where VOC restrictions apply. **Caution: Series 94-H₂O certification is based on thinning with No. 49, No. 2 or No. 3 Thinner. Use of any other thinner voids NSF/ANSI/CAN Std. 61 certification.**

POT LIFE

8 hours at 77°F (25°C) and 50% R.H.
Caution: This product cures with moisture acting as a catalyst. Incorporation of moisture or moisture laden air (humidity) during use will shorten pot life. Avoid continual agitation at high RPM. When feasible keep containers of mixed material covered during use.

APPLICATION EQUIPMENT

Note: When intermediate and finish coats are white or light colors, best hiding of this dark color primer can be achieved by spray application; or when roller applied, by using 1/4" nap covers.

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA †	E	704 or 765	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	40-50 psi (2.8-3.4 bar)	10-20 psi (0.7-1.4 bar)

† (with heavy mastic spring) Low temperatures or longer hoses will require additional pressure. Use pressure pot equipped with an agitator and keep pressure pot at same level or higher than the spray gun. Compressed air must be dry.

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.015"-0.019" (380-481 microns) Reversible Tip	3000-4000 psi (207-276 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Roller: Use a 1/4" or 3/8" (6.4 mm or 9.5 mm) synthetic woven nap roller cover. Stir material frequently or keep under agitation to prevent settling.

Brush: Use high quality natural or synthetic bristle brushes.

SURFACE TEMPERATURE

Minimum 35°F (2°C) Maximum 140°F (60°C) Maximum for Brush & Roller 120°F (49°C)
The surface should be dry and at least 5°F (3°C) above the dew point. **Note:** Series 44-710 Accelerator must be used if the surface temperature is 35°F to 60°F (2°C to 16°C) and 20% to 40% relative humidity. Please reference Technical Bulletin 98-14 for more information.

AMBIENT HUMIDITY

Minimum 20% Maximum 90%

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or xylene or, when required by SCAQMD regulations, No. 49 Thinner.

CAUTION

Series 94-H₂O, with one-component configuration, prevents the product's ability to offer "dry-fall" characteristics.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.



HI-BUILD EPOXOLINE® II SERIES V69

PRODUCT PROFILE

GENERIC DESCRIPTION	Polyamidoamine Epoxy
COMMON USAGE	An advanced generation epoxy for protection and finishing of steel and concrete. It has excellent resistance to abrasion and is suitable for immersion as well as chemical contact exposure. Contact your local Tnemec representative for a list of chemicals. This product can also be used for lining storage tanks that contain demineralized, deionized or distilled water.
COLORS	Refer to Tnemec Color Guide. Note: Epoxies chalk with extended exposure to sunlight. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause yellowing to occur.
FINISH	Satin

COATING SYSTEM

SURFACER/FILLER/PATCHER	215, 217, 218
PRIMERS	Steel: Self-priming or Series 1, 27, 27WB, 37H, 66, L69, L69F, N69, N69F, V69F, 90E-92, 90-97, H90-97, 90G-1K97, 90-98, 91-H ₂ O, 94-H ₂ O, 135, 161, 394, V530 Galvanized Steel and Non-Ferrous Metal: Self-priming or Series 66, L69, L69F, N69, N69F, V69F, 161 Concrete: Self-priming or Series 27WB, 130, 1254 CMU: Self-priming or 130, 1254
TOPCOATS	Series 22, 27WB, 46H-413, 66, L69, L69F, N69, N69F, V69, V69F, 72, 73, 104, 113, 114, 118, 141, 156, 157, 161, 180, 181, 262, 265, 287, 446, 740, 750, 1026, 1028, 1029, 1070, 1070V, 1071, 1071V, 1072, 1072V, 1074, 1074U, 1075, 1075U, 1077, 1078, 1078V, 1080, 1081, 1094, 1095, 1096, 1224. Note: The following recoat times apply for Series V69: Immersion Service—Surface must be scarified after 60 days. Atmospheric Service—After 60 days, scarification or an epoxy tie-coat is required. When topcoating with Series 740 or 750, recoat time for V69 is 21 days for atmospheric service. Contact your Tnemec representative for specific recommendations.

SURFACE PREPARATION

STEEL	Immersion Service: SSPC-SP10/NACE 2 Near-White Blast Cleaning or ISO Sa 2 1/2 Very Thorough Blast Cleaning with a minimum angular anchor profile of 1.5 mils. Non-Immersion Service: SSPC-SP6/NACE 3 Commercial Blast Cleaning or ISO Sa 2 Thorough Blast Cleaning with a minimum angular anchor profile of 1.5 mils. Note: Commercial Blast Cleaning generally produces the best coating performance for this exposure. If conditions will not permit this, in moderate exposures Series V69 may be applied to SSPC-SP2 or SP3 Hand or Power Tool Cleaned surfaces (SSPC Rust Grade Condition C).
GALVANIZED STEEL & NON-FERROUS METAL	Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services.
CAST/DUCTILE IRON	All external surfaces of ductile iron pipe and fittings shall be delivered to the application facility without asphalt or any other protective lining on the exterior surface. All oils, small deposits of asphalt paint, grease, and soluble deposits should be removed and uniformly abrasive blasted using angular abrasive in accordance with NAPF 500-03-04: External Pipe Surface condition. When viewed without magnification, the exterior surfaces shall be free of all visible dirt, dust, loose annealing oxide, rust, mold coating and other foreign matter. Any area where rust reappears before application shall be reblasted. The surface shall contain a minimum angular anchor profile of 1.5 mils (38.1 microns) (Reference NACE RP0287 or ASTM D 4417, Method C).
CONCRETE	Allow new cast-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Verify concrete dryness in accordance with ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (moisture vapor transmission should not exceed three pounds per 1,000 square feet in a 24 hour period), F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes" (relative humidity should not exceed 80%), or D 4263 "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method" (no moisture present). Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide an ICRI-CSP 2-3 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.
CMU	Allow mortar to cure for 28 days. Level protrusions and mortar spatter.
PAINTED SURFACES	Non-Immersion Service: Ask your Tnemec representative for specific recommendations.
PRIMED SURFACES	Immersion Service: Scarify the Series V69 prime coat surface by abrasive-blasting with a fine abrasive before topcoating if: (a) the Series V69 prime coat has been in exterior exposure for 60 days or longer and Series 66, L69, L69F, N69, N69F, V69, V69F or 161 is the specified topcoat; (b) the Series V69 prime coat has been in exterior exposure for 7 days or longer and Series 262 or 265 is the specified topcoat.
ALL SURFACES	Must be clean, dry and free of oil, grease, chalk and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS	67.0 ± 2.0% (mixed) †
RECOMMENDED DFT	2.0 to 10.0 mils (50 to 255 microns) per coat. Note: The number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.

HI-BUILD EPOXOLINE® II | SERIES V69

CURING TIME AT 5 MILS DFT

Without 44-700 Accelerator

Temperature	To Handle	To Recoat	Immersion
90°F (32°C)	5 hours	7 hours	7 days
80°F (27°C)	7 hours	9 hours	7 days
70°F (21°C)	9 hours	12 hours	7 days
60°F (16°C)	16 hours	22 hours	9 to 12 days
50°F (10°C)	24 hours	32 hours	12 to 14 days

Curing time varies with surface temperature, air movement, humidity and film thickness. **Note:** For faster curing and low-temperature applications, add No. 44-700 Epoxy Accelerator; see separate product data sheet for cure information.

VOLATILE ORGANIC COMPOUNDS

Unthinned: 1.95 lbs/gallon (234 grams/litre)
Thinned 2.5% (No. 4 Thinner): 2.08 lbs/gallon (250 grams/litre) †

HAPS

Unthinned: 2.05 lbs/gal solids
Thinned 2.5% (No. 4 Thinner): 2.30 lbs/gal solids

THEORETICAL COVERAGE

1,074 mil sq ft/gal (26.4 m²/L at 25 microns). See APPLICATION for coverage rates. †

NUMBER OF COMPONENTS

Two: Part A (amine) and Part B (epoxy) — One (Part A) to one (Part B) by volume.

PACKAGING

	Part A	Part B	Yield (mixed)
Large Kit	5 gallon pail	5 gallon pail	10 gallons (37.9 L)
Small Kit	1 gallon can	1 gallon can	2 gallons (7.6 L)

NET WEIGHT PER GALLON

14.01 ± 0.25 lbs (6.36 ± .11 kg) (mixed) †

STORAGE TEMPERATURE

Minimum 20°F (-7°C) Maximum 110°F (43°C)

TEMPERATURE RESISTANCE

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

SHELF LIFE

Part A: 24 months; Part B: 12 months at recommended storage temperature.

FLASH POINT - SETA

Part A: 82°F (28°C) Part B: 86°F (30°C)

HEALTH & SAFETY

Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.
Keep out of the reach of children.

APPLICATION

COVERAGE RATES

	Dry MILS (MICRONS)	Wet MILS (MICRONS)	Sq Ft/Gal (m ² /Gal)
Suggested (1)	6.0 (150)	9.0 (230)	179 (16.6)
Minimum	2.0 (50)	3.0 (75)	537 (49.9)
Maximum	10.0 (250)	15.0 (375)	107 (10.0)

Dense Concrete & Masonry: From 100 to 150 sq ft (9.3 to 13.9 m²) per gallon.

CMU: From 75 to 100 sq ft (7.0 to 9.3 m²) per gallon.

(1) Note for Steel: Roller or brush application requires two or more coats to obtain recommended film thickness. Also, Series V69 can be spray applied to an optional high-build film thickness range of 8.0 to 10.0 dry mils (205 to 255 dry microns) or 11.5 to 14.5 wet mils (209 to 370 wet microns). Allow for overspray and surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. †

MIXING

Start with equal amounts of Series V69 Parts A and B. Power mix contents of each container separately, making sure no pigment remains on the bottom. Pour a measured amount of Part B into a clean container large enough to hold both components. If Series 44-700 is not being used, proceed with mixing and add an equal volume of Part A to Part B while under agitation. Continue agitation until the two components are thoroughly mixed. **Note:** Both components must be above 50°F (10°C) prior to mixing. For optimum mixing and application properties, the material should be above 60°F (16°C).

If using Series 44-700 accelerator, slowly add four (4) fluid ounces of 44-700 per gallon to Series V69 Part A material while under agitation and proceed with adding Part B. **Note:** The use of more than the recommended amount of 44-700 will adversely affect performance.

Thin by volume and thoroughly mix. Failure to thoroughly mix the Part A and Part B components prior to thinning can affect product's gloss and performance. Do not use mixed material beyond pot life limits. **Note:** For application of the unaccelerated version to surfaces between 50°F to 60°F (10°C to 16°C) or the accelerated version to surfaces between 35°F to 50°F (2°C to 10°C), allow mixed material to stand 30 minutes and restir before using.

THINNING

A maximum of 2.5% of No. 4 Thinner may be used to comply with VOC regulations.

POT LIFE

Without 44-700: 6 hours at 50°F (10°C) 4 hours at 75°F (24°C) 1 hour at 100°F (38°C)
 With 44-700: 2 hours at 50°F (10°C) 1 hour at 75°F (24°C) 30 minutes at 100°F (38°C)

SPRAY LIFE

Without 44-700: 1 hour at 75°F (24°C) With 44-700: 30 minutes at 75°F (24°C)
Note: Spray application after listed times will adversely affect ability to achieve recommended dry film thickness.

HI-BUILD EPOXOLINE® II | SERIES V69

APPLICATION EQUIPMENT

Air Spray ‡

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	765 or 704	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	50-80 psi (3.4-5.5 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

Airless Spray ‡

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.015"-0.019" (380-485 microns)	3000-4800 psi (207-330 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

‡ Spray application of first coat on CMU should be followed by backrolling. **Note:** Application over inorganic zinc-rich primers: Apply a wet mist coat and allow tiny bubbles to form. When bubbles disappear in 1 to 2 minutes, apply a full wet coat at specified mil thickness.

Roller: Use 3/8" or 1/2" (9.5 mm or 12.7 mm) synthetic woven nap roller cover. Use longer nap to obtain penetration on rough or porous surfaces.

Brush: Recommended for small areas only. Use high quality natural or synthetic bristle brushes.

SURFACE TEMPERATURE

Minimum 50°F (10°C) Maximum 135°F (57°C) The surface should be dry and at least 5°F (3°C) above the dew point. Coating will not cure below minimum surface temperature.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or MEK.

† Values may vary with color.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.



PRODUCT PROFILE

GENERIC DESCRIPTION Aliphatic Acrylic Polyurethane

COMMON USAGE A user friendly, low VOC, aliphatic polyurethane coating that provides excellent color and gloss retention for exterior applications to steel, concrete and other miscellaneous substrates. Direct-to-Metal capability allows for a labor-saving, high-build, single coat application.

COLORS Refer to Tnemec Color Guide. **Note:** Certain colors may require multiple coats depending on method of application and finish coat color. When feasible, the preceding coat should be in the same color family, but noticeably different.

FINISH Gloss

SPECIAL QUALIFICATIONS Series 1094 meets the requirements of SSPC-36 (level 3) Paint Standard.

COATING SYSTEM

PRIMERS **Steel:** Series 1, 27, 27WB, 66, L69, L69F, N69, N69F, V69, V69F, 90-97, 90G-1K97, 91-H₂O, 94-H₂O, 132, 133, 135, 138, L140, L140F, N140, N140F, V140, V140F, 141, 161, 394, 1224
Galvanized Steel & Non-Ferrous Metal: 27, 66, L69, L69F, N69, N69F, V69, V69F, 161
Concrete: Series 27WB, 66, L69, L69F, N69, N69F, V69, V69F, L140, L140F, N140, N140F, V140, V140F, 141, 161, 1224, 1254
CMU: Series 1254
Note: The following maximum recoat times apply; Series L69F, 132, 133, 138, L140F or 141, 14 days; Series L69 or L140, 21 days; Series 1, 27, 27WB, 66, N69, N69F, V69, V69F, 135, N140, N140F, V140, V140F, 161, 394, 1224, 1254, 30 days; Series 90-97, 91-H₂O, 90G-1K97, 94-H₂O, 60 days. Contact your Tnemec representative for specific recommendations.

SURFACE PREPARATION

ALL SURFACES Must be clean, dry and free of oil, grease, chalk and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS 60.0 ± 2.0% (mixed) †

RECOMMENDED DFT **Topcoat Service:** 2.0 to 5.0 mils (51 to 127 microns) per coat.
Direct-to-Metal; over Zinc or MIO-Zinc: 3.0 to 6.0 mils (76 to 154 microns).
Note: Number of coats and thickness requirements will vary with substrate, application method and exposure. For DTM or applications over zinc or MIO-zinc, consult the latest version of Tnemec Technical Bulletin 13-100 or contact your Tnemec representative.

CURING TIME

Temperature	To Touch	To Handle	To Recoat
75°F (24°C)	1-2 hours	9 hours	10-12 hours

To resist moisture: 8 hours. Curing time varies with surface temperature, air movement, humidity and film thickness.
Note: For faster cure in temperatures down to 35°F (2°C), add No. 44-456 Urethane Accelerator, see separate product data sheet for cure information. **Note:** The use of Series 44-456 accelerator is not recommended when temperatures exceed 75°F (24°C).

VOLATILE ORGANIC COMPOUNDS

Unthinned: 2.16 lbs/gal (259 grams/litre)
Unthinned: 0.63 lbs/gal (75 grams/litre) (TBAC Exempt)
Thinned 10% (No. 10 Thinner): 2.77 lbs/gal (332 grams/litre)
Thinned 10% (No. 10 Thinner): 1.60 lbs/gal (191 grams/litre) (TBAC Exempt)
Thinned 10% (No. 46 Thinner): 2.20 lbs/gal (263 grams/litre)
Thinned 10% (No. 46 Thinner): 0.69 lbs/gal (82 grams/litre) (TBAC Exempt)

HAPS

Unthinned: 0.0 lbs/gallon solids
Thinned 10% (No. 10 Thinner): 0.03 lbs/gallon solids
Thinned 10% (No. 46 Thinner): 0.07 lbs/gallon solids

THEORETICAL COVERAGE

964 mil sq ft/gal (89.5 m²/L at 25 microns). See APPLICATION for coverage rates. †

NUMBER OF COMPONENTS

Two: Part A and Part B

MIXING RATIO

By volume: Four (Part A) to one (Part B)

PACKAGING

	PART A (Partially filled)	PART B (Partially filled)	Yield (Mixed)
Large Kit	6 gallon pail	1 gallon can	5 gallons (18.9L)
Small Kit	1 gallon can	1 quart can	1 gallon (3.79L)

NET WEIGHT PER GALLON

10.86 ± 0.25 lbs (4.92 ± .11 kg) †

STORAGE TEMPERATURE

Minimum 40°F (4°C) Maximum 110°F (43°C)

TEMPERATURE RESISTANCE

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

SHELF LIFE

Part A: 12 months; Part B: 12 months at recommended storage temperature.

FLASH POINT - SETA

Part A: 45°F (7°C) Part B: 40°F (4°C)

HEALTH & SAFETY

Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Safety Data Sheet for important health and safety information prior to the use of this product.
Keep out of the reach of children.

ENDURA-SHIELD® | SERIES 1094

APPLICATION

COVERAGE RATES

Topcoat Service

	Dry MILS (MICRONS)	Wet MILS (MICRONS)	Sq Ft/Gal (m ² /Gal)
Suggested	2.5 (65)	4.0 (100)	385 (35.8)
Minimum	2.0 (50)	3.5 (90)	481 (44.7)
Maximum	5.0 (125)	8.5 (215)	192 (17.9)

Direct-to-Metal; over Zinc or MIO-Zinc

	Dry MILS (MICRONS)	Wet MILS (MICRONS)	Sq Ft/Gal (m ² /Gal)
Suggested	4.0 (100)	6.5 (165)	240 (22.4)
Minimum	3.0 (75)	5.0 (130)	321 (29.8)
Maximum	6.0 (150)	10 (255)	160 (14.9)

Note: Coverage rates based on unthinned material. Allow for overspray and surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. †

MIXING

Stir contents of the container marked Part A, making sure no pigment remains on the bottom. If using Series 44-456 accelerator, slowly add two (2) ounces of Series 44-456 per mixed gallon of Series 1094 while under agitation. **Note:** The use of more than the recommended amount of Series 44-456 accelerator will adversely affect performance.

Add the contents of the container marked Part B to Part A while under mechanical agitation. Continue agitation until the two components are thoroughly mixed. Do not use mixed material beyond pot life limits. **Caution: Part B is moisture-sensitive and will react with atmospheric moisture. Keep unused material tightly closed at all times. Do not reseal mixed material. An explosion hazard may be created.**

THINNING

Thinning is required for proper application. Use No. 10 Thinner. For air spray, airless spray, brush or roller, thin up to 10% or 12 ounces (354 mL) per gallon. **Note:** In areas that require lower VOC, use No. 46 Thinner.

POT LIFE

Without 44-456: 4 hours at 75°F (24°C)

With 44-456: 5 hours at 35°F (2°C) 4 hours at 55°F (13°C) 3 hours at 75°F (24°C)

APPLICATION EQUIPMENT

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	765 or 704	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	50-80 psi (3.4-5.5 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.013"-0.017" (330-430 microns)	2700-3500 psi (186-241 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Roller: Use 1/4" or 3/8" (6.4 mm or 9.5 mm) high quality synthetic woven nap roller cover. Do not use medium or long nap roller covers. Two coats are required to obtain dry film thickness above 3.0 mils (75 microns).

Brush: Recommended for small areas only. Use high quality natural or synthetic bristle brushes. Two coats are required to obtain recommended film thickness.

SURFACE TEMPERATURE

Minimum 40°F (4°C) Maximum 120°F (49°C)

The surface should be dry and at least 5°F (3°C) above the dew point.

Cure time necessary to resist direct contact with moisture at a surface temperature of 75°F (24°C) is 8 hours.

CLEANUP

Flush and clean all equipment immediately after use with xylene or MEK. Use Tnemec No. 74 Thinner when needed to comply with VOC regulations.

† Values may vary with color.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.



TNEMEC POLYSILOXANE SERIES 690

PRODUCT DATA SHEET

PRODUCT PROFILE

GENERIC DESCRIPTION	Solvent-Based Polysiloxane (epoxy siloxane hybrid)
COMMON USAGE	An advanced technology finish coat combining low VOC with exceptional performance. Offers superior color and gloss retention for long-term aesthetics on a wide range of exterior structures. Durable film stands up to abrasion and exterior weathering.
COLORS	Refer to Tnemec Color Guide. Note: Certain colors may require multiple coats depending on method of application and finish coat color. When feasible, the preceding coat should be in the same color family (blue, gray, etc.), but noticeably different.
FINISH	Gloss

COATING SYSTEM

PRIMERS	Series 27. Note: Series 690 can be applied within 30 minutes of the application of Series 27 when temperatures are at 75°F (24°C).
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SURFACE PREPARATION

ALL SURFACES	Must be clean, dry and free of oil, grease and other contaminants when used as a topcoat. See primer product data sheet for surface preparation recommendation.
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TECHNICAL DATA

VOLUME SOLIDS	85.0 ± 2.0% (mixed) †						
RECOMMENDED DFT	Topcoat Service: 3.0 to 5.0 mils (75 to 130 microns) per coat. Note: Number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.						
CURING TIME	<table border="1"> <thead> <tr> <th>Temperature †</th> <th>To Touch</th> <th>To Handle</th> </tr> </thead> <tbody> <tr> <td>75°F (24°C)</td> <td>2 hours</td> <td>3 hours</td> </tr> </tbody> </table>	Temperature †	To Touch	To Handle	75°F (24°C)	2 hours	3 hours
Temperature †	To Touch	To Handle					
75°F (24°C)	2 hours	3 hours					
VOLATILE ORGANIC COMPOUNDS	†50% relative humidity. Curing time varies with surface temperature, air movement, humidity and film thickness. Unthinned: 1.03 lbs/gallon (124 grams/litre) Thinned 5% (Max) (No. 2 Thinner): 1.33 lbs/gallon (159 grams/litre)						
HAPS	Unthinned: 1.16 lbs/gal solids Thinned 5% (Max) (No. 2 Thinner): 1.58 lbs/gal solids						
THEORETICAL COVERAGE	1,363 mil sq ft/gal (33.4 m ² /L at 25 microns). †						
NUMBER OF COMPONENTS	Two: Part A and Part B						
MIXING RATIO	By volume: Eight (Part A) to one (Part B)						
NET WEIGHT PER GALLON	11.30 ± 0.25 lbs (5.13 ± 0.11 kg) †						
STORAGE TEMPERATURE	Minimum 20°F (-7°C) Maximum 110°F (43°C)						
TEMPERATURE RESISTANCE	(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)						
SHelf LIFE	12 months at recommended storage temperature.						
HEALTH & SAFETY	Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.						

APPLICATION

COVERAGE RATES	Topcoat Service			
		Dry Mil (Microns)	Wet Mil (Microns)	Sq Ft/Gal (m²/Gal)
	Minimum	3.0 (75)	3.5 (90)	454 (42.2)
	Maximum	5.0 (130)	6.0 (150)	273 (25.3)

Allow for overspray and surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. †

MIXING	Stir contents of the container marked Part A, making sure no pigment remains on the bottom. Add the contents of the can marked Part B to Part A while under agitation. Continue agitation until the two components are thoroughly mixed. Do not use mixed material beyond pot life limits. Caution: Part A and B are moisture-sensitive and will react with atmospheric moisture. Keep unused material tightly closed at all times.
THINNING	Thinning is not normally required. For air spray, thin up to 5% per gallon with No. 2 Thinner. For airless spray, thin up to 5% per gallon with No. 2 Thinner.
POT LIFE	5 hour at 75°F (24°C)

TNEMEC POLYSILOXANE | SERIES 690

APPLICATION EQUIPMENT

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	765 or 704	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	50-65 psi (3.4-4.5 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.013"-0.015" (330-380 microns)	3000-3500 psi (205-240 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Note: Two or more coats may be required to obtain recommended film thicknesses.

Roller: Use high quality synthetic nap covers.

Brush: Use high quality natural or synthetic bristle brushes.

SURFACE TEMPERATURE

Minimum 40°F (4°C) Maximum 120°F (49°C)

The surface should be dry and at least 5°F (3°C) above the dew point. Actual times will vary with air movement, film thickness and humidity.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner, xylene or MEK, or use appropriate cleanup solvents that comply with applicable regulations. Use Tnemec No. 74 Thinner when needed to comply with VOC regulations.

† Values may vary with color.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.



FLUORONAR SERIES 1070V

PRODUCT PROFILE

GENERIC DESCRIPTION Advanced Thermoset Solution Fluoropolymer

COMMON USAGE A low VOC, fluoropolymer coating that provides an ultra-durable finish with user friendly brush, roll and conventional spray application. It has outstanding color and gloss retention even in the most severe exposures. Under certain conditions, it may be used to restore aged fluoropolymer coil applied coatings or for OEM applications. Contact Tnemec Technical Services or your local Tnemec representative for details.

COLORS Refer to Tnemec Color Guide. **Note:** Certain colors may require multiple coats depending on method of application and finish coat color. The preceding coat should be in the same color family, but noticeably different. Upon selection of the finish coat color, the intermediate coat color may be selected by Tnemec Company.

FINISH Gloss

SPECIAL QUALIFICATIONS Series 1070V meets the requirements of LEED-Low-Emitting Materials, Collaborative for High Performance Schools-Paints & Coatings, WELL Building Standard-VOC Restrictions, and Living Building Challenge-Healthy Interior Performance. Contact your Tnemec representative for more information.

This product is part of a coating system tested in accordance with ISO 12944-6 (2018). Contact your Tnemec representative for coating system test results.

Series 1070V meets the exterior weathering requirements of AAMA 2604 and 2605.

COATING SYSTEM

PRIMERS Series 1, 27, 27WB, 66, L69, L69F, N69, N69F, V69, V69F, 90-97, H90-97, 91-H₂O, 94-H₂O, 118, 135, 161, 394, 1224. **Note:** Series 1 and 394 require an intermediate coat prior to topcoating with Series 1070V. **Note:** Series 118 is typically used to overcoat, sound, existing coating systems. See product data sheet for more information.

INTERMEDIATE Series 73, 750, 1075, 1075U, 1095 (Intermediate coat may be required for some applications, please contact your Tnemec coating consultant.)

Note: When topcoating with Series 1070V, the following maximum recoat times apply: Over 27, 66, L69, L69F, N69, N69F, V69, V69F, 135 or 161, 14 days; over itself, 30 days; over 750, 1075, 1075U, 1095, 45 days; over 1 and 394, 60 days; over 73, 90-97, H90-97, 91-H₂O, 94-H₂O or 1224, 90 days.

SURFACE PREPARATION

EXTERIOR EXPOSURE See primer product data sheet for surface preparation recommendation.

ALL SURFACES Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS 58.0 ± 2.0% (mixed) †

RECOMMENDED DFT 2.0 to 3.0 mils (50 to 75 microns) per coat. **Note:** Number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.

CURING TIME	Temperature	To Touch	To Handle	Minimum Recoat ‡
	90°F (32°C)	30 minutes	4-6 hours	6-8 hours
	70°F (21°C)	30 minutes	6-8 hours	10-12 hours
	50°F (10°C)	1 hour	12-15 hours	16-24 hours

‡ Maximum recoat: 30 days. Curing time varies with surface temperature, air movement, humidity and film thickness. **Note:** For faster curing and low-temperature applications, add No. 44-710 Urethane Accelerator; see separate product data sheet.

VOLATILE ORGANIC COMPOUNDS **Unthinned:** 1.14 lbs/gallon (137 grams/litre)
Unthinned: 0.57 lbs/gallon (69 grams/litre) (TBAC Exempt)
Thinned 10% (No. 63 Thinner): 1.81 lbs/gallon (217 grams/litre)
Thinned 10% (No. 63 Thinner): 1.37 lbs/gallon (164 grams/litre) (TBAC Exempt)
Thinned 10% (No. 65 Thinner): 1.91 lbs/gallon (229 grams/litre)
Thinned 10% (No. 65 Thinner): 0.57 lbs/gallon (69 grams/litre) (TBAC Exempt) †

HAPS **Unthinned:** 0.03 lbs/gal solids
Thinned 10% (No. 63 Thinner): 0.03 lbs/gal solids
Thinned 10% (No. 65 Thinner): 0.03 lbs/gal solids

THEORETICAL COVERAGE 930 mil sq ft/gal (22.8 m²/L at 25 microns) †

NUMBER OF COMPONENTS Two: Part A and Part B

MIXING RATIO By volume: Eight (Part A) to one (Part B)

PACKAGING	PART A (partially filled)	PART B (partially filled)	Yield (mixed)
Medium Kit	5 gallon pail	1/2 gallon can	3 gallons (11.35 L)
Small Kit	1 gallon can	1 pint can	1 gallon (3.79 L)

NET WEIGHT PER GALLON 13.53 ± 0.25 lbs (6.13 ± 0.11 kg) (mixed) †

STORAGE TEMPERATURE Minimum 20°F (-7°C) Maximum 110°F (43°C)

TEMPERATURE RESISTANCE (Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

FLUORONAR | SERIES 1070V

SHELF LIFE 12 months at recommended storage temperature
FLASH POINT - SETA Part A: 81°F (27°C) Part B: >200°F (93°C)
HEALTH & SAFETY Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.
Keep out of the reach of children.

APPLICATION

COVERAGE RATES		Dry MILS (MICRONS)	Wet MILS (MICRONS)	Sq Ft/Gal (m ² /Gal)
	Suggested	2.5 (65)	4.5 (115)	372 (34.6)
	Minimum	2.0 (50)	3.5 (90)	465 (43.2)
	Maximum	3.0 (75)	5.0 (130)	310 (28.8)

Allow for overspray and surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. †

MIXING Stir contents of the container marked Part A, making sure no pigment remains on the bottom. Add the contents of the can marked Part B to Part A while under agitation. Continue agitation until the two components are thoroughly mixed. Do not use mixed material beyond pot life limits. **Caution: Part B is moisture-sensitive and will react with atmospheric moisture. Keep unused material tightly closed at all times.**

THINNING Thinning is required for proper application. For brush, roller, and air spray, thin up to 10% per gallon with No. 63 Thinner. **Note:** In areas that require lower VOC, use No. 65 Thinner. **Caution: Do not add thinner if more than thirty (30) minutes have elapsed after mixing.**

POT LIFE 2 hours at 50°F (10°C) 2 hours at 70°F (21°C) 1 hour at 90°F (32°C)

APPLICATION EQUIPMENT

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	765 or 704	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	65-85 psi (4.7-6.2 bar)	15-25 psi (1.0-1.7 bar)

Low temperatures or longer hoses require higher pot pressure. Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Airless Spray Application: Contact Tnemec Technical Services.

Roller: Use 1/4" (6.4 mm) synthetic woven nap cover. Do not use medium or long nap roller covers.

Brush: Recommended for small areas only. Use high quality natural or synthetic bristle brushes.

SURFACE TEMPERATURE

Minimum 40°F (4°C) Maximum 120°F (49°C)
 The surface should be dry and at least 5°F (3°C) above the dew point.
 Cure time necessary to resist direct contact with moisture at surface temperature:

Temperature	To Resist Moisture
100°F (38°C)	2 hours
90°F (32°C)	3 1/2 hours
80°F (27°C)	5 hours
70°F (21°C)	7 hours
60°F (16°C)	11 hours
50°F (10°C)	21 1/2 hours
40°F (4°C)	44 hours

If the coating is exposed to moisture before the preceding cure parameters are met, dull, flat or spotty-appearing areas may develop. Actual times will vary with air movement, film thickness and humidity.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or MEK.

† Values may vary with color.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

Project Timeline

1. Project Start / Storage Unit Pickup - As soon as we get a signed purchase order or contract, we are ready to begin
2. Project Completion / Storage Unit Drop Off - By September 15th, 2023 (Project will likely be completed early depending on how quickly we can get the necessary approved documentation)

Project Scope of Work

1. Have containers picked up and delivered to our facility in Shelbyville, MI
2. Sandblast 47 street lights and the attached/included hardware to a SSPC-SP10 Near White Metal
3. Move light poles into our paint bay and perform our initial prime coat as well as top coat
4. Prepare shipping containers to receive the finished light poles while minimizing damage during transportation
5. Load shipping containers with the finished 47 street light poles and wrap/strap down once complete
6. Have containers delivered to destination by September 15th, 2023 at the very latest



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
05/08/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER VanWyk Risk Solutions 150 Ottawa Ave NW Suite 1000 Grand Rapids, MI 49503	CONTACT NAME: Dennis Lake PHONE (A/C No. Ext): 616-942-5070 E-MAIL ADDRESS: dennisl@vanwykcorp.com	FAX (A/C, No): 616-942-8199
	INSURER(S) AFFORDING COVERAGE	
INSURED BlasTek, LLC 12857 Canal View Drive Wayland, MI 49348	INSURER A: Homeland Insurance Company of New York	NAIC # 34452
	INSURER B: SECURA Insurance Company	22543
	INSURER C: Manufacturing Technology Mutual insurance Compa	10166
	INSURER D:	
	INSURER E:	
INSURER F:		

COVERAGES

CERTIFICATE NUMBER: 21/22

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y		7930099610002	01/28/2023	01/28/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Deductible \$ 2,500
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			A3304917	01/28/2023	01/28/2024	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
C	<input type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WCV6133810-0	01/28/2023	01/28/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 5,000,000 E.L. DISEASE - EA EMPLOYEE \$ 5,000,000 E.L. DISEASE - POLICY LIMIT \$ 5,000,000
A	Pollution Liability			7930099610002	01/28/2023	01/28/2024	Occurrence \$2,000,000 Aggregate \$2,000,000

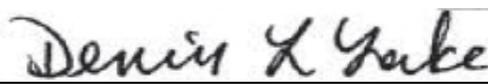
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Pollution Liability Deductible: \$5,000

Charter Township of Union is named as Additional Insured with regard to General Liability when required by written contract or agreement.

CERTIFICATE HOLDER

CANCELLATION

Charter Township of Union 2010 S Lincoln Rd Mount Pleasant, MI 48858	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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To: Eric Waddell

Blastek LLC

P.O. Box 443

Middleville, Michigan 49333

Letter of recommendation

Cascade Engineering contracted Blastek LLC to complete a large warehouse restoration project. This included blasting, cleaning, painting of just over 44,000 square feet of our ceiling, and all of the surrounding walls with fresh paint as well. This project was on short notice and timing with a little under a month to complete this project Blastek stepped up to the challenge to provide a quality job in the short time.

With the short timing and Cascade engineering still running our full 24/5 operation it did make for some difficult unforeseen challenges. And along the process this project was split up into three phases so we could continue full operation with little interruption. While there were a lot of unforeseen obstacles that arose during the start, Eric was still able to deliver on his estimated timeline for this project.

With the images attached below you can see a true difference between the old warehouses ceiling paint that was falling off, and now with the bright white ceiling with the red accents to the fire houses give it a great touch. Adding this and some new machines to our west plant truly makes it our show plant to our customers. And for any future customers of Blastek we are welcome to showing the finished job to their potential clients at our West plant, at 5055 36th st se, Grand rapids, Michigan, 49512.

Austin Bayer

Sr. Purchasing Specialist

Cascade Engineering Family of Companies

4950 37th Street SE, Grand Rapids, MI 49512

T 616-350-6998

cascadeng.com



CITY OF NILES
Department of Public Works

February 20, 2023

TO: Whom it may concern

RE: BlasTek – Reference Letter

BlasTek was the low bidder on one of our projects that we had put out for bid in 2022. The work entailed sandblasting to remove old, lead-based paint on a retaining wall, removing lead-based paint on guard rails in one of our parking lots, sandblast a brick wall that had graffiti on it, sandblasting two doors that had graffiti on them, and then repainting all of the surfaces to the specified colors. BlasTek was a pleasure to work with as their communication, work ethic, and work was nothing less than perfect. There were a few additions that we had added to the project as it was on going and they had no problem with executing said additions.

I can highly recommend BlasTek for any job that pertains to what they had done for us as we were more than pleased. Their foreman(s) communicate well, their work is next to the best, and their performance is highly impressive.

If there is any additional information needed, please contact me.

Sincerely,
CITY OF NILES

Zach Holt
Public Works Superintendent

MEMBER: MICHIGAN MUNICIPAL LEAGUE ♦ AMERICAN PUBLIC WORKS ASSOCIATION
333 N. 2nd St., Niles, Michigan 49120
Phone (269) 683-4700 Fax (269) 684-3928
E-mail: DPWsuperintendent@nilesmi.org
City Website: www.ci.niles.mi.us



120 E. Prairie Street, Suite C
Vicksburg, MI 49097
Phone: 269.349.8428
Fax: 269.475.5239
frederickconstruction.com

12-29-2020

To whom it may concern:

Our company is currently restoring The Mill at Vicksburg. The buildings are over 100 years old and have been placed on the department of interior historic register. The current size of the buildings floor plates are over 314,00 square feet. The construction types of the buildings are multi width exterior and interior brick walls, wood post and beam constructed floor plates, structural concrete column and beam floor plates, structural steel roof systems, concrete roof systems, and wood deck roof systems.

This property will become a mixed use and event venue icon in the State of Michigan.

During the design phase it was determined that all of the existing lead paint was to be removed. In the fall of 2018, our company awarded Blastek a contract for the lead abatement. This award was based on capabilities and quality first followed by total cost. As we continue to move towards the finish line in 2021, we have been delighted with our decision. Eric and his crew continually monitor and adjust their techniques to ensure that the existing brick, steel, concrete, and wood surfaces are not damage due to over blasting. We are happy to provide this recommendation and look forward to our continued relationship with Eric and his team paper mill. Should you have any questions or require any additional information please do not hesitate to contact me.

Mike Frederick LEED AP

Project Principal

Mike

Frederick

Digitally signed by Mike Frederick:
DN: cn=Mike Frederick,
o=Frederick Construction, ou,
email=owner@frederickco
nstruction.com, c=US
Date: 2020.12.29 16:05:15 -0500



Interurban Transit Partnership

300 Ellsworth Avenue SW Grand Rapids, MI 49503-4005 616.456.7514

August 1, 2022

Eric Waddell
BlasTek, LLC
579 Kirtland Ave SW
Grand Rapids, MI 49507

Dear Mr. Waddell:

I am writing this to provide a letter of reference for BlasTek, LLC in regard to their work on The Rapid's passenger transfer center canopy located at Rapid Central Station, 250 Caesar A. Chavez SW, Grand Rapids, MI.

We contracted with BlasTek to blast and repaint the steel structure supporting the canopy. BlasTek communicated very well with us throughout the project and we were able to perform the project while transit operations were still occurring at Rapid Central Station. I am very pleased with how the project was carried out and the quality of the finished product and would recommend BlasTek for future projects.

Sincerely,

A handwritten signature in blue ink that reads 'Kevin Wisselink'.

Kevin Wisselink
Procurement and Capital Planning Director

Thursday, April 21, 2022

Eric,

I wanted to take this opportunity to thank you and all the BlasTek team members for the truly remarkable job that was done in the blasting and repainting of the hospital air handlers. Not only was the quality of work wonderful, but the communication was greatly appreciated as well. No matter the time of day or night, I was always able to get answers to my questions. Working in a hospital is tough, there are a lot of best practices, compliance requirements, infection prevention requirements, and a seemingly endless list of NFPA guidelines which govern how we complete our work for the safety of patients, staff, and the public. I greatly appreciate the diligence of the BlasTek staff members in the following of these requirements.

I also wish to thank you for your patience and professionalism. When we had some internal delays and needed to change the schedule and work odd hours for the benefit of our patients, I never heard complaints but instead a can-do attitude. The area in which you worked allowed sound to travel fast, never did I receive complaints for the language used or the content of the conversations between BlasTek team members, this speaks volumes to the quality and character of the entire BlasTek team. Congratulations on a job well done, in budget, and on schedule.

Best Wishes,



Tim Van't Zelfde
Senior Project Manager
Planning/Design/Construction Team



DIXON
ENGINEERING & INSPECTION SERVICES
FOR THE COATING INDUSTRY

1104 Third Avenue
Lake Odessa, MI 48849
Telephone: (616) 374-3221
Fax: (616) 374-7116

November 18, 2020

RE: Blastek LLC. Letter of Reference

To whom it may concern;

Blastek LLC completed a coating rehabilitation project for Dixon Engineering in the spring of this year. The scope of work included the coordination of welding repairs and the complete rehabilitation of the interior coatings of a 6,000 gallon hydropneumatics potable water tank. The project required the protection of sensitive equipment during the blasting and coating application to ensure the systems continued operations while the tank was out of service. It also required Blastek to meet significant submittal requirements prior to the start of the project and a compressed deadline from the date of award to the date the tank was required to be returned to service. Although there were many challenges during the project, Eric, Mitch and his crew's were responsive to the owners requests, our approach to quality assurance and the specification requirements with a commitment of solving problems to the benefit of the project. This was Dixon's first experience working with Blastek and I look forward to the opportunity to recommend them again.

If you have any questions about the project or this reference, please contact me at 616 374-3221 ext 309

For Dixon Engineering,

Eric Binkowski
Project Manager
AWS-CWI 04040071
NACE Certified Coating Inspector – Level 3 #7126

**Members: Society of Protective Coatings • American Water Works Association
Consulting Engineers Council**

GRfiltration
GRfiltration.com



Matthew McDonald

11670 46th Ave, Allendale MI 49401

Phone: 231.690.1754

Email: matt.mcdonald@grfiltration.com

► **To Whom it my concern**

Blas-Tek – Blasting Contractors Letter of Referral

For the past year GR Filtration has been using Blas-Tek LLC for multiple blasting and coatings projects. GR Filtration sends on average 1-5 projects to Blas-Tek on a weekly basis. Projects range from interior/exterior industrial tank coatings to structural steel media blasting and coatings to glass blasting stainless steel process piping.

Blas-Tek has completed every project either on schedule or ahead of schedule. They excel with every job in craftsmanship and workmanship. In my mind they are one of the leaders of the trade in the West Michigan area. Their integrity and determination to provide the best service for their customer is undoubtedly one of the best I have ever seen.

I feel confident that they would be able to out perform any other contractor out there. Please feel free to reach out for any other information needed.

Thank you.

Matthew McDonald

Sales and Operations

GR Filtration

2/10/2020



100 YEARS

1919 - 2019

Headquarters
2001 Weldorf NW | Grand Rapids, MI 49544
p. 616.791.9952 or 1.800.594.9244

Regional Offices
Kalamazoo-Portage | 269.492.6662
St. Joseph-Benton Harbor | 269.210.6200

www.andyegan.com

2-07-2020

RE: BLASKTEC LLC. LETTER OF REVERAL

To Whom it may concern,

Over the last few years we have been utilizing Blastek LLC for various fabrication projects ranging from semi loads of large bore carbon steel piping to complex equipment and piping skids. They have not only meet the demanding turnaround of our projects but have also expressed great quality and workmanship. Among other things Blastek has expressed willingness to adapt to specific needs and skill sets of some of our projects.

Please feel free to contact me directly if you'd wish to discuss anything in further detail. It is my recommendation that Blastek is a more that capable painting contracting who's willing to work with their clients for a successful project.

Regards,

Chad Reed
616-893-0529
Project Manager
Andy J. Egan Co.



Kyle Workman
Protective Coatings Representative
General Polymers Flooring Systems
NACE CIP Level 1 Cert #070764
616-293-0415
kyle.r.workman@sherwin.com

02/09/2020

RE: Blastek LLC Letter of Recommendation

To whom it may concern:

I have worked with Mitch Martin and Eric Waddel co-owners of Blastek since early 2017 as a coating's supplier. I have witnessed them complete firsthand multiple projects with both surface preparation and coating. These projects they successfully applied many different types of coating chemistries as supplied by Sherwin-Williams, such as Zinc rich primers, Epoxies, Polyurethanes, Alkyds, Acrylics, Polysiloxanes, and Polyaspartics. No matter the product being applied, they have demonstrated the attention to detail for both planning and executing a successful coating application.

If you have any further questions regarding this reference, please contact me.

Respectfully,

Kyle Workman
Protective Coatings Representative
Sherwin-Williams
NACE CIP Level 1 Cert #070764
Kyle.r.workman@sherwin.com

Respectfully,

BlasTek, LLC
 P.O. Box 443
 Middleville, MI 49333 US
 finance@blastekllc.com
 blastekllc.com



ADDRESS

Charter Township of Union

Quote 3204

DATE 05/10/2023

PROJECT

Light Pole Blast & Paint #1

	QTY	RATE	AMOUNT
Shop Material Handling Handling of all individual pieces from storage units into our blast bay, moving parts into our paint bay, loading parts back up for shipment in the shipping containers	160	70.00	11,200.00
Shop Labor Labor associated with assisting in loading/unloading, necessary masking, prep for paint, etc	60	70.00	4,200.00
Shop Media Blasting Labor, equipment & material associated with media blasting cast iron	56	250.00	14,000.00
Shop Painting Labor & equipment associated with applying 1 coat of Tnemec Series 94H20, Tnemec Series V69 & Tnemec Series 1094	67	90.00	6,030.00
Shop Paint Materials Material cost for 1 coat of Tnemec Series 94H20, Tnemec Series V69 & Tnemec Series 1094	1	12,640.00	12,640.00
Shop Materials PPE, paint filters, thinner, disposable supplies and materials	9	80.00	720.00
Sub Contracted Services Logistics for hauling loaded shipping containers to and from our facility	1	8,240.00	8,240.00
Shop Materials Packaging materials for preparing containers for shipment	4	500.00	2,000.00

Thank you for the opportunity to quote your project.

TOTAL \$59,030.00

A finance charge of 2% will be assessed to all over due balances. After 30 days steps will be made to place a lien on the property. After 90 days accounts will be automatically sent to collections.

Accepted By

Accepted Date

A finance charge of 2% will be assessed to all over due balances. After 30 days steps will be made to place a lien on the property. After 90 days accounts will be automatically sent to collections.

BlasTek, LLC
 P.O. Box 443
 Middleville, MI 49333 US
 finance@blastekllc.com
 blastekllc.com



ADDRESS

Charter Township of Union

Quote 3205

DATE 05/10/2023

PROJECT

Light Pole Blast & Paint #2

	QTY	RATE	AMOUNT
Shop Material Handling Handling of all individual pieces from storage units into our blast bay, moving parts into our paint bay, loading parts back up for shipment in the shipping containers	160	70.00	11,200.00
Shop Labor Labor associated with assisting in loading/unloading, necessary masking, prep for paint, etc	60	70.00	4,200.00
Shop Media Blasting Labor, equipment & material associated with media blasting cast iron	56	250.00	14,000.00
Shop Painting Labor & equipment associated with applying 1 coat of Tnemec Series 94H20, Tnemec Series V69 & Tnemec Series 1094	45	90.00	4,050.00
Shop Paint Materials Material cost for 1 coat of Tnemec Series 94H20, Tnemec Series V69 & Tnemec Series 1094	1	10,290.00	10,290.00
Shop Materials PPE, paint filters, thinner, disposable supplies and materials	6	80.00	480.00
Sub Contracted Services Logistics for hauling loaded shipping containers to and from our facility	1	8,240.00	8,240.00
Shop Materials Packaging materials for preparing containers for shipment	4	500.00	2,000.00

Thank you for the opportunity to quote your project.

TOTAL \$54,460.00

A finance charge of 2% will be assessed to all over due balances. After 30 days steps will be made to place a lien on the property. After 90 days accounts will be automatically sent to collections.

Accepted By

Accepted Date

A finance charge of 2% will be assessed to all over due balances. After 30 days steps will be made to place a lien on the property. After 90 days accounts will be automatically sent to collections.

This form was created in accordance to the AIA Prequalification Form



The Undersigned certifies under oath that the information provided herein is true and sufficiently complete so as not to be misleading.

SUBMITTED TO: Charter Township of Union

BID EVENT NO.: B23-00325

ADDRESS:
2010 S. Lincoln Rd.
Mt. Pleasant, MI 48858

SUBMITTED BY: J. Ranck Electric, Inc.

NAME: Adam Ranck, President

ADDRESS: 1993 Gover Parkway
Mt. Pleasant, MI 48858

NAME OF PROJECT : Street Light Poles Sandblasting and Powder Coating Project

Signed: 
Adam Ranck, President

Dated: 5/10/2023



J. RANCK ELECTRIC, INC.

Mt. Pleasant, Michigan

1993 Gover Parkway
Mt. Pleasant, MI 48858
Phone: (800) 792-3822
Fax: (989) 775-8830

May 11, 2023

Charter Twp of Union
2010 S. Lincoln Road
Mt. Pleasant, MI 48858

Attn: Rodney Nanney

Re: Street Light Sandblasting and Powder Coating Within the East DDA District

Mr. Nanney,

We are pleased to submit a quotation in the amount of Eighty Two Thousand Fifty (**\$82,050.00**) dollars to provide the necessary labor, equipment and materials to sandblast and powder coat paint 47 each light pole assemblies.

We appreciate the opportunity to quote this work to you. If you have any additional questions, please feel free to contact me at 989-775-7393.

Sincerely,

J. RANCK ELECTRIC, INC.

Jeff Davis

Flint, Michigan

3015 Airpark Drive North, Flint, MI 48507 | Fax: (810) 424-9750

Sault Ste. Marie, Michigan

511 Ashmun, Suite 201, Sault Ste. Marie, MI 49783 | Fax: (906) 632-7014

WEBSITE: WWW.JRANCK.COM



Schedule

Bids Due – May 12, 2023

Contract award - May 26, 2023

Disassemble Lights – June 6, 2023

Transport to Enviro-Tech Coatings – June 12, 2023

Sandblast and Powder Coat – July 31, 2023

Transport to J. Ranck Yard or Jobsite – August 4, 2023

Scope of Work

- Disassemble 47 each light pole assemblies.
- Transport 47 each street light poles, arms, luminaires and banner arms to painting facility.
- Sandblast 47 each street light poles, arms, luminaires and banner arms parts to a SSPC SP-6 Surface Preparation Standard.
- Apply a Polyester Power, Color Will be Black, RAL 9005 with a Gloss Level of 85+ to the 47 each street light poles, arms, luminaires and banner arms.
- Transport 47 each street light poles, arms, luminaires and banner arms to J. Ranck yard or jobsite.
- Re-assemble 47 each light pole assemblies.

Voluntary Alternate to Paint Pole in Place

- Clean and sand the poles with air powered and hand tools to remove any loosely adhering coatings.
- Application of primer to the entire pole. Primer will be Carbomastic 615 applied by brush and roller.
- Application of 2 coats of topcoat to the entire pole using Carboline Carbothane 8845 in Gloss Black (Fed Standard 17038). Application by brush and roller.
- Paint meets the current VOC requirements required as of May 1, 2023.

Price - \$18,000.00

Duration – 3-4 Days

