

**DISTRICT ONE PUBLIC WORKS INTEGRATING COMMITTEE
STATE CAPITAL IMPROVEMENT PROGRAM
FISCAL YEAR (FY) 2022 APPEALS TO PRELIMINARY RANKING
FEBRUARY 11, 2021**

The DOPWIC has approximately \$30,214,000 in OPWC funding, available through grants (State Capital Improvement Program [SCIP] and Local Transportation Improvement Program [LTIP]) and loans (SCIP and Revolving Loan Program [RLP]) in Fiscal Year (FY) 2022. The total funds allocated are shown in the following table.

FY 2022 PROGRAM FUNDING	GRANTS	LOANS
State Capital Improvement Program (SCIP)	\$16,688,200	\$3,178,870
Local Transportation Improvement Program (LTIP)	\$6,542,188	
Revolving Loan Program (RLP)		\$3,804,745
TOTAL AVAILABLE	\$23,230,388	\$6,983,615

FY 2022 PRELIMINARY SCORING OF PROJECTS

The DOPWIC staff evaluated and recommended scores for all the project applications using the OPWC requirements, and District One methodology and evaluation criteria. Each program year is separate and distinct from previous years. DOPWIC Staff reviewed and scored forty applications (40) applications per the following twelve (12) criteria:

EVALUATION/SCORING CRITERIA	MAXIMUM POINTS
Infrastructure Condition	45
Infrastructure Age	17
Users	10
Health and Safety Needs	55
Local Match	20
Loan Incentive	10
Access to Funds	4
Community/Economic Development	3
Regional Collaboration	2
Economic Health	25
Coordinated Infrastructure Projects	4
Generation of User Fees	5
TOTAL POINTS	200

FY 2022 STAFF REVIEW OF APPEALS TO PRELIMINARY PROJECT SCORES

Three (3) applicants submitted appeals to the FY 2022 SCIP/LTIP Preliminary Project Ranking scores. The appeals sought increased scores or clarification in one or more of the following criteria:

- Regional Collaboration
- Healthy and Safety
- Infrastructure Condition

Per the FY 2022 Applicant Manual, information that was not part of the original application submission was not accepted for an appeal of the project ranking. All appeal letters are posted on the Cuyahoga County Planning Commission website at <https://www.countyplanning.us/services/grant-programs/infrastructure-programs/current-program-year/scip-project-appeals/>. **Please note that each program year is separate and distinct from previous program years.**

The DOPWIC Staff reviewed the three (3) appeals for merit; the recommendations and appeal letters are outlined below.

- CLH-22-01, Coventry Road Rehabilitation Project, see page 3.
- GAR-22-01, Multi-Street Reconstruction Phase 6, see page 14.
- MAP-22-03, Mendota and Rowena Watermain Project, see page 18.

1. CITY OF CLEVELAND HEIGHTS – COVENTRY ROAD REHABILITATION PROJECT

DOPWIC ID: CLH-22-01

PRIMARY INFRASTRUCTURE: Road

RANKING: # 12

INFRASTRUCTURE CONDITION SCORE	AGE SCORE	USERS SCORE	HEALTH AND SAFETY SCORE	LOCAL MATCH SCORE	LOAN INCEN- TIVE SCORE	ACCESS TO FUNDS
40.00	17.00	6.00	55.00	12.00	0.00	4.00
COMMUNITY OR ECONOMIC DEVELOPMENT SCORE	REGIONAL COLLABOR- ATION SCORE	ECONOMIC HEALTH SCORE	COORDINATED INFRA- STRUCTURE SCORE	USER FEES SCORE		TOTAL SCORE
2.00	0.00	19.00	1.00	5.00		159.00

APPEAL:

- ***INCREASE REGIONAL COLLABORATION SCORE [MULTI-JURISDICTIONAL PROJECT] to 2 POINTS***

The Applicant stated the project should have received two additional points for the Regional Collaboration portion due to the partnership with Cuyahoga County. The city of Cleveland Heights did receive a letter of commitment from the Department of Public Works on November 5th, 2020, that was submitted with the application, however there was not enough time for either partner to prepare a formal cooperative agreement.

STAFF RECOMMENDATION:

- **MAINTAIN REGIONAL COORDINATION SCORE at 0 POINTS**

Per the DOPWIC FY 2022 Applicant Manual, points for Regional Collaboration will be awarded only if the required cooperative agreements indicating a subdivision's financial participation are included in the application. This requirement is stated on pages 20 and 29 in the DOPWIC FY 2022 Applicant Manual, and again on page 2 of the DOPWIC FY 2022 Applicant Supplement, along with a link to the template for cooperative agreements.



January 25, 2021

District One Public Works Integrating Committee
c/o Cuyahoga County Planning Commission
Attn: Ms. Allison Ball, Planner
2079 East Ninth Street, Suite 5-300
Cleveland, Ohio 44115

***Re: OPWC Fiscal Year 2022 (Round 35) – Application for Financial Assistance
City of Cleveland Heights
Appeal of Preliminary Project Ranking
Coventry Road Rehabilitation Project – DOPWIC ID CLH-22-01***

Dear Ms. Ball:

The City of Cleveland Heights respectfully submits the following appeal to the District One Public Works Integrating Committee for the preliminary project ranking of the Coventry Road Rehabilitation Project (DOPWIC ID CLH-22-01).

We believe the project should have received two additional points for the regional collaboration portion due to the partnership with Cuyahoga County. 2020 was a unique year, and like most public agencies the City of Cleveland Heights and the Cuyahoga County Department of Public Works were affected by the COVID-19 virus with staffing shortages. While staff members from both agencies were working diligently to prepare project applications to the District One Public Works Integrating Committee, and finalize project budgets for the next two years, there was not enough time for either of us to prepare a formal agreement. The city did receive a letter of commitment from the Department of Public Works on November 5th, 2020 that was submitted with the application (attached), and county leadership even went to the extent of issuing multiple press releases about partnering with the city on the Coventry Road project on December 17th, 2020 and January 20th, 2021 (attached).

We hope that the District One Public Works Integrating Committee will consider our appeal and award the project with the additional two points which would put this much needed and long-awaited project into funding eligibility.

We thank you and the DOPWIC members and staff for all that you do to support our communities. Should you have any questions, or require any additional information, please do not hesitate to contact Joe Kickel at 216-291-2470.

Sincerely,

A handwritten signature in blue ink, appearing to read "Collette Clinkscale".

Collette Clinkscale,
Director of Public Works

Cc: Joe Kickel, City of Cleveland Heights
Nichole English, Cuyahoga County Department of Public Works
Eric Mack, Cuyahoga County Department of Public Works

Enclosures



November 5, 2020

Alison Ball
Cuyahoga County Planning Commission
2079 East Ninth Street, Suite 5-300
Cleveland, Ohio 44115

Re: OPWC Application
Coventry Road

Dear Ms. Ball:

The Cuyahoga County Department of Public Works is currently in negotiations with the City of Cleveland Heights for the municipal agreement for the Coventry Road Rehabilitation project. If OPWC finding is awarded, the City of Cleveland Heights and Cuyahoga County will split the remaining project cost 80/20.

Once the agreement is executed we will forward it to you. Should you have any questions regarding this matter, please contact this office.

Sincerely,
Cuyahoga County Department of Public Works

cc: file

Q:\Issue 1\PY 35 (2021)\Coventry Road\Ltr_Muni Agreement - Cleveland Height.docx

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County Proposes Expanded Funding for Road Programs to Increase Investment in Communities Experiencing High Poverty Levels

12/17/2020

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Media Contact: Devyn Giannetti: (216) 225-9813;

dgiannetti@cuyahogacounty.us

\$17 Million Proposed Investment Into 27 Municipalities Based on Economic Health, Poverty Level, Poor Road Conditions, and Traffic

CUYAHOGA COUNTY, OH - Cuyahoga County has expanded its proposed investment between two County road programs, which would span across 27 municipalities in need of road improvement projects and would total over \$17 million.

Projects were selected based on a variety of factors. Poverty level and economic health were strong factors in consideration. A community’s economic health is a census statistic that measures a community’s percent of households in poverty and average annual household income.

These projects will span across Cuyahoga County, in cities including Bedford Heights, Broadview Heights, Cleveland, Cleveland Heights, East Cleveland, Euclid, Maple Heights, Mayfield Heights, Parma, South Euclid and Warrensville Heights, among others.

Cuyahoga County Council will consider the approval for various projects under the 2021 and 2022 Local Operations Resurfacing 80-20 Program and the Local Resurfacing 50-50 Program.

The Local Operations Resurfacing 80-20 Program awards municipalities 80 percent funding of their projects. The County assists the community by providing construction services on these resurfacing projects. The County will contribute \$7.5 million across six projects in 2021 and \$5.2 million across five projects in 2022.

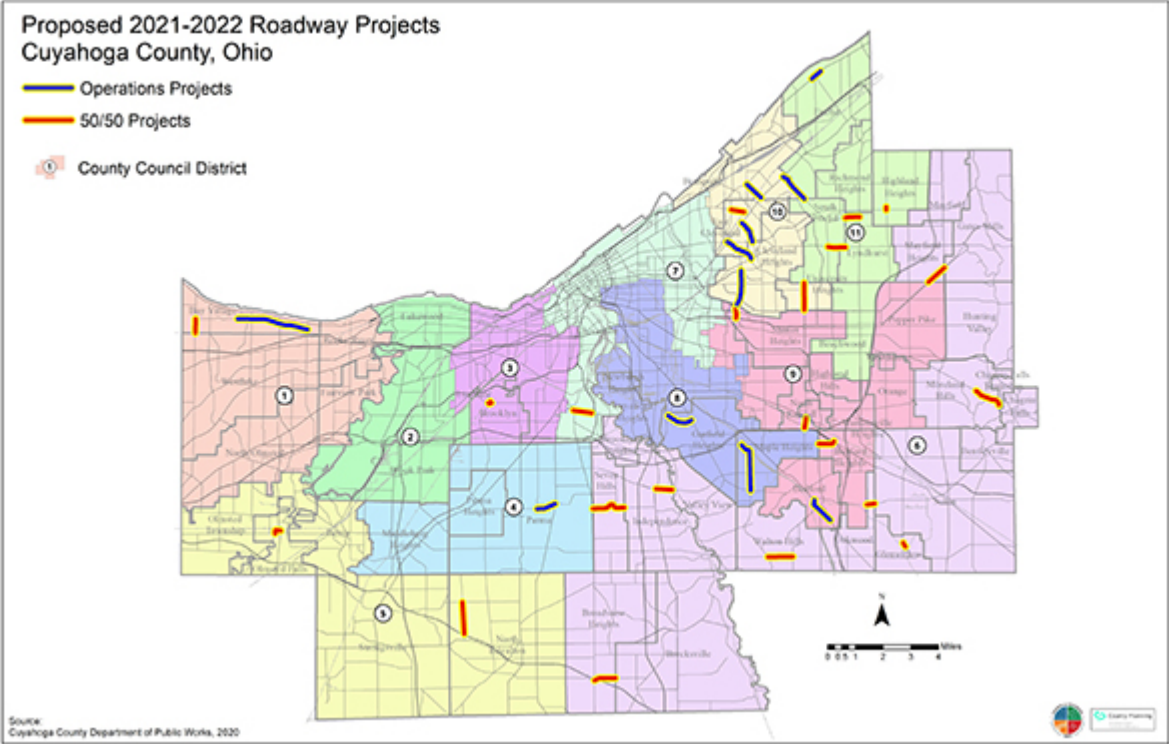
The Local Resurfacing 50-50 Program awards municipalities 50 percent funding of their projects, up to \$250,000 per project. These projects are designed and constructed by the municipality with County review. The County reimburses eligible costs at the conclusion of the project. The County will contribute \$5.025 million across 22 projects.

To expand the number of projects the County was able to fund, the County maximized federal funding to free up County dollars to make this investment. This expansion would allow for an additional \$9.5 million in total project cost and add an additional five projects.

“There is huge need throughout the county for improved roads. Generally cities are responsible for road improvements,” said County Executive Armond Budish. “But we took a look at the communities facing higher levels of poverty and lower economic health and wanted to specifically do improvements in these areas to emphasize our continued dedication to investing in communities with a high need for support. People should be able to live in safe and healthy communities, no matter what their zip code is. I am grateful that we were able to expand our funding for these programs to work with a higher number of municipalities.”

“The City of Cleveland Heights is pleased to partner with Cuyahoga County to address the longstanding road problems on Coventry Road,” said Cleveland Heights Mayor Jason Stein. “We appreciate their efforts and look forward to working with them to make this project happen.”

“We understand the need is out there across the county to have roads improved,” said Public Works Director Mike Dever. “We are happy to invest in these poorly-conditioned roads and assist these communities so they can spend their local dollars on other infrastructure investments in their cities.”



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News

Here are the Cuyahoga County road projects planned for 2021 and 2022

Updated Jan 20, 2021; Posted Jan 20, 2021



Cuyahoga County plans to complete road projects in 27 cities and villages over the next two years.

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By **Courtney Astolfi, cleveland.com**

CLEVELAND, Ohio — A Cuyahoga County Council committee on Wednesday signed off on the bulk of locally-funded county road projects planned for 2021 and 2022, which include portions of major arteries and other well-traveled routes in 27 cities and villages.

The projects, which require approval by the full council, are largely resurfacing projects, though some involve the rehabilitation of intersections, according to Nichole English, planning and programming administrator for the county's Public Works Department.

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Anticipated start dates for the smaller projects were not immediately available, but all are expected to happen in the next two years. County contributions are capped at \$250,000 for those projects, but in a few cases, the county expects to contribute less than that amount.

Here are details on the larger projects:

***Coventry Road**, between Fairhill Road and Euclid Heights Boulevard, in Cleveland Heights — \$1.8 million project, for which the county would pay \$1.44 million and the city would pay \$360,000. Work expected to begin in March.

***Ivanhoe Road**, between Euclid Avenue and East 152nd Street and, in Cleveland and East Cleveland — \$1.34 million project, for which the county would pay \$1.07 million and Cleveland would pay \$268,000. Expected to begin in March.

***Lakeshore Boulevard**, between East 217th and East 228th streets, in Euclid — \$1 million project, for which the county and city would each pay \$500,000. Expected to begin in March.

***Union Road**, between the intersection with Broadway Avenue north of Tinkers Creek and the intersection with Broadway Avenue near William Street, in Bedford — \$1 million project, for which the county would pay \$800,000 and the city would pay \$200,000. Expected to begin in March.

***Dunham Road**, between Turney and Libby roads, in Maple Heights — \$1.8 million project, for which the county would pay \$1.44 million and the city would pay \$360,000. Expected to begin March 2022.

***Garfield Boulevard**, between Warner and Turney roads, in Garfield Heights — \$1.9 million project, for which the county would pay \$1.52 million and the city would pay \$380,000. Expected to begin March 2022.

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***Green Road**, between Euclid Avenue to the southern corporation line, in Cleveland — \$1.1 million project, for which the county would pay \$880,000 and the city would pay \$220,000. Expected to begin March 2022.

***Superior Road**, from Euclid Avenue to Lee Road, in Cleveland Heights and East Cleveland — \$4.3 million project, for which the county would pay \$1.15 million and Cleveland Heights would pay \$200,000. (Plus \$2.15 million from a state grant and \$800,000 from a federal grant.) Expected to begin March 2022.

***West Ridgewood Drive**, between Ridge and State roads, in Parma — \$2 million project, for which the county would pay \$1.6 million and the city would pay \$400,000. Expected to begin in March 2022.

Here are details on the smaller projects:

*Bradley Road in Bay Village (from southern corporation line to Wolf Road)

*Libby Road in Bedford Heights (between Northfield and Aurora roads)

*East Edgerton Road in Broadview Heights (from Broadview Road to eastern corporation line)

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*Memphis Avenue in Brooklyn (intersection with Tiedeman Road)

*Spring Road in Cleveland (between Broadview Road to Jennings Avenue)

*Shaw Avenue in East Cleveland (between Hayden and Manhattan avenues)

*Cochran Road in Glenwillow (around intersection with Austin Powder Drive)

*Bishop Road in Highland Heights (intersection with Wilson Mills Road)

*Rockside Road in Independence (from Brecksville Road to eastern corporation limit)

*Anderson Road in Lyndhurst (between Richmond and Professor roads)

*Dunham Road in Maple Heights (between Libby and Rockside roads)

*Gates Mills Boulevard in Mayfield Heights (between Cedar and SOM Center roads)

*Chagrin Boulevard in Moreland Hills (from South Lane to eastern corporation line)

*Abbey Road in North Royalton (from Albion Road to south of the Ohio Turnpike bridge)

*Solon Road in Oakwood (from western corporation line to Richmond Road)

*Brookside Drive/Mill Street in Olmsted Falls (between Bagley and Columbia roads)

*Chestnut Road in Seven Hills (from Broadview Road to eastern corporation line)

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*Coventry Road in Shaker Heights (between Shaker and South Park boulevards)

*Mayfield Road in South Euclid (from eastern corporation line to Belvoir Boulevard)

*Warrensville Center Road in University Heights (from Fairmount Boulevard to Cedar Road)

*Alexander Road in Walton Hills (between Dunham and Walton roads)

*Miles Road and Warrensville Center Road in Warrensville Heights (from eastern corporation line to east of Green Road, and from Interstate 480 to northern corporation line)

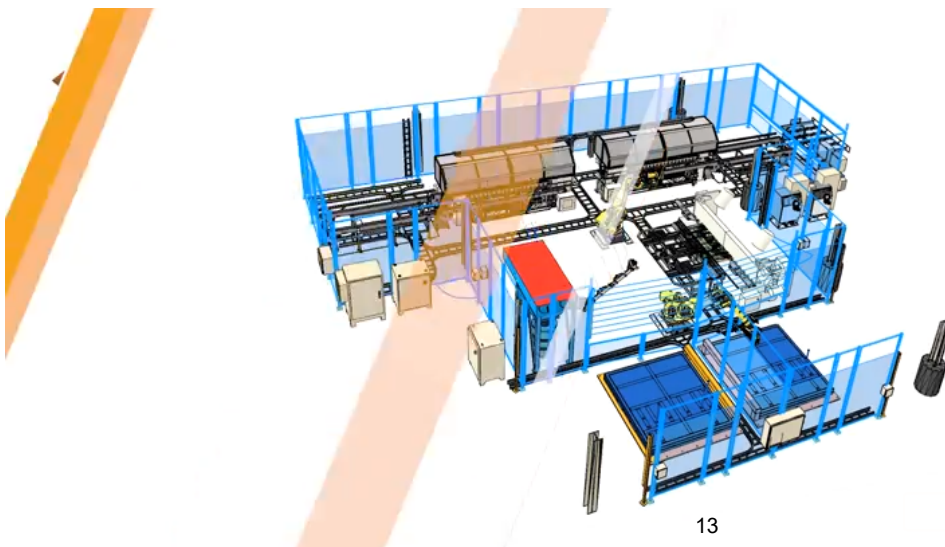
The nine larger projects were selected by the county based on poor pavement conditions, traffic volume and other factors. Twenty-two smaller projects were pitched by cities and selected by the county based on similar factors, though cities were given priority if they have not recently received county assistance for road projects, English said.

Generally, the county pays 80% of costs for the larger projects, and 50% of costs for the smaller projects, with cities making up the difference. In some cases, state or federal money is used to supplement the local contributions.

The county costs come from the road and bridge fund, which is largely fed by license fees.

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2. CITY OF GARFIELD HEIGHTS – MULTI-STREET RECONSTRUCTION PHASE 6

DOPWIC ID: GAR-22-01

PROJECT TYPE: WATER SUPPLY

RANKING: # 17

INFRASTRUCTURE CONDITION SCORE	AGE SCORE	USERS SCORE	HEALTH AND SAFETY SCORE	LOCAL MATCH SCORE	LOAN INCEN- TIVE SCORE	ACCESS TO FUNDS
40.00	17.00	10.00	50.00	14.20	0.00	0.00
COMMUNITY OR ECONOMIC DEVELOPMENT SCORE	REGIONAL COLLABOR- ATION SCORE	ECONOMIC HEALTH SCORE	COORDINATED INFRA- STRUCTURE SCORE	USER FEES SCORE		TOTAL SCORE
2.00	0.00	21.00	1.00	0.00		155.20

APPEAL:

- **INCREASE HEALTH AND SAFETY SCORE to 55 POINTS**

The City of Garfield Heights states that the watermain suffer from ongoing documented health and safety problems with multiple critical factors, or the nature of the problem warrants additional consideration and thus should receive 55 points. The applicant cited the following issues:

- The water mains average a Very Poor Condition rating. This is the worst possible rating given by the Cleveland Water Department.
- The roadways are all in very poor condition.
- The overwhelming number of water main breaks in Garfield Heights not only causes water supply issues but also causes the pavement and other utilities to be undermined leading to pavement and utility issues.
- These Streets have low fire flows. Per the CWD reports included in the application, three of the streets suffer from a fire flow that is only 600 gpm and the others are well below the 1500 gpm required to put out a fire.
- Lead service connections will be replaced. The application contains a report that shows 20%-25% of kids in Garfield Heights have elevated lead in their blood.

STAFF RECOMMENDATION:

- **MAINTAIN HEALTH AND SAFETY SCORE at 50 POINTS**

Per the DOPWIC FY 2022 Applicant Manual, condition is rated exclusive of capacity, serviceability, and health and safety issues. The first three bullet points, watermain condition, roadway condition, and water main breaks were evaluated and scored for condition. For a multi-location project, a rating is applied to the total project based on an average of the

individual Health and Safety factors of each location within the project. When this average rating was applied to this project, it did not compare highly against the other water projects submitted. The DOPWIC Staff considered the low fire flow and lead connections service factors of the water mains and determined that the fire flow values, and the number of lead connections were better than the other water supply projects submitted.

From: [James Sickels](#)
To: [Alison Ball](#)
Cc: [David Krock](#)
Subject: APPEAL TO SCORE FOR CITY OF GARFIELD HEIGHTS DOPWIC ID # GAR-22-01
Date: Wednesday, January 27, 2021 5:47:11 PM
Attachments: [7C_Multi-Street Reconstruction - Phase 6_CWD condition assessment.pdf](#)

APPEAL TO SCORE FOR CITY OF GARFIELD HEIGHTS DOPWIC ID # GAR-22-01

The City of Garfield Heights would like to appeal the score it was given for DOPWIC ID number GAR-22-01. The Health and Safety Score received was 50 points and should be 55 points based on the following information. The watermain suffer from ongoing documented health and safety problems with multiple critical factors, or the nature of the problem warrants additional consideration and the project will greatly reduce or eliminate the health and safety risks.

The DOPWIC Application submitted included the following locations in Garfield Heights. These locations have the following ratings for the water main pipe. The rating are based on Cleveland Water Department (CWD) Pipe Ratings Map and scoring was completed by CWD. I have enclosed the Cleveland Water Department Pipe Ratings Map (named CWD Condition Assessment Map in the DOPWIC Application) which can be found in Section 7 of the DOPWIC Application as submitted.

Cleveland Water Department Pipe Ratings

Street	Location	CWD Pipe
Rating	Available Fireflow (1500 gpm required)	
Carpenter Condition	(Turney to E 135th) 760 gpm	Very Poor
Horton Condition	(Grand Division to Garfield Blvd) 934 gpm	Very Poor
Andover Condition	(Edgepark to South End) 600 gpm	Very Poor/Poor
Henry Condition	(Park Knoll to McCracken) 867 gpm	Very Poor/Poor
E 135th Condition	(Silver to Granger) sufficient flow	Very Poor
E 128th Condition	(McCracken to Silver) 600 gpm	Very Poor
Edgepark Condition	(Henry to end) 600 gpm	Very Poor
Average Ratings:		Very Poor

Condition

Facts:

- The water mains average a Very Poor Condition rating. This is the worst possible rating given by the Cleveland Water Department.
- The roadways are all in very poor condition.
- The overwhelming number of water main breaks in Garfield Heights not only causes water supply issues but also causes the pavement and other utilities to be undermined leading to pavement and utility issues.
- These Streets have low fire flows. Per the CWD reports included in the application, three of the street suffer from a fire flow that is only 600 gpm and the others are well below the 1500 gpm required to put out a fire.
- Lead service connections will be replaced. The application contains a report that shows that 20%-25% of kids in Garfield Heights have elevated lead in their blood.

Conclusion:

- By replacing the water mains, the chance for water main breaks is eliminated, lead is removed from the lines, fire flow is increased, the pavement and utilities are protected, and water quality is greatly increased.
- Roadway resurfacing is part of the project.

The Health and Safety Score received was 50 points and should be 55 points because the watermain suffer from ongoing documented health and safety problems with multiple critical factors, or the nature of the problem warrants additional consideration and the project will greatly reduce or eliminate the health and safety risks.

Should you have any questions, please contact me at your earliest convenience.

Thank you,

Jim

JAMES SICKELS, CPESC
PROJECT COORDINATOR

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3. CITY OF MAPLE HEIGHTS – MENDOTA AVENUE & ROWENA AVENUE WATER MAIN RECONSTRUCTION PROJECT

DOPWIC ID: MAP-22-03

PRIMARY INFRASTRUCTURE: Water Supply

RANKING: # 8

INFRASTRUCTURE CONDITION SCORE	AGE SCORE	USERS SCORE	HEALTH AND SAFETY SCORE	LOCAL MATCH SCORE	LOAN INCEN- TIVE SCORE	ACCESS TO FUNDS
40.00	17.00	10.00	55.00	14.43	0.00	2.00
COMMUNITY OR ECONOMIC DEVELOPMENT SCORE	REGIONAL COLLABOR- ATION SCORE	ECONOMIC HEALTH SCORE	COORDINATED INFRA- STRUCTURE SCORE	USER FEES SCORE		TOTAL SCORE
1.00	0.00	21.00	1.00	0.00		161.43

APPEAL:

- ***INCREASE INFRASTRUCTURE CONDITION SCORE [CLOSED OR NOT OPERATING] to 45 POINTS***

The Applicant stated the condition of the watermain should be considered Closed or Not Operating. The City of Maple Heights feels that a water line operating at 12% and 18% of service capacity and verified by reduced fire flow at 14% - 27% of required fire flow, documents a condition that is unusable, dangerous, and unsafe (Closed or Not Operating Condition).

STAFF RECOMMENDATION:

- **MAINTAIN INFRASTRUCTURE CONDITION SCORE at 35 Points**

Per the DOPWIC FY 2022 Applicant Manual, condition is rated exclusive of capacity, serviceability, and health and safety issues. The DOPWIC Staff considered the reduced service capacity, low fire flow and lead connections service factors of the water mains and awarded the project the maximum points for Health and Safety. The Cleveland Water Department watermain break records show that the break rate average is 0.3 which is equal to the Cleveland Water Department Average, thus the DOPWIC staff did not agree with applicant's assessment of the Condition as Closed or Not Operating.

District One Public Works Integrating Committee
c/o Cuyahoga County Planning Commission
2079 East 9th Street, Suite 5-300
Cleveland, Ohio 44115

January 29, 2021

Attention: Ms. Alison Ball
DOPWIC District Liaison

Re: Ohio Public Works Program Year 2022 Application Appeal
Mendota & Rowena Water Main Reconstruction Project DOPWIC ID MAP 22-03
Maple Heights, Ohio

Dear Ms. Ball,

Pursuant to Phase 2 Project Selection - Section 2.2 Applicant Appeals of the Fiscal Year 2022 Applicant Manual, the City of Maple Heights is respectfully requesting that the preliminary scoring for the above referenced project, DOPWIC ID MAP-22-03, be reviewed by staff and if they are in agreement, adjust the project score accordingly. Specifically, we are appealing the project specific scoring assigned under the Infrastructure Condition category.

The preliminary score assigned for the Mendota/Rowena Avenue Water Main Reconstruction Project under Infrastructure Condition was 40 points (Imminent Failure – the components of the infrastructure are causing or contributing to a serious non-compliance situation and is threatening the intended design level of service).

The City is asking DOPWIC staff to review the preliminary project score based on the following:

On Page 7 of the DOPWIC Supplement we provided the C-Factor and Fire Flow Rate to document the condition of the water mains. Under “Describe the Structural Deficiencies”, we elaborate that “... The Hazen-Williams coefficient is not a function of the flow conditions but the equation is used to calculate friction loss in pipes. Its values can range from 140 for very smooth, straight pipe down to 90 or 80 for old, unlined tuberculated pipe. Generally, the value of 100 is taken for average conditions. For a cast-iron pipe 40 years old, the C-Factor can range between 83-64. As pipe gets older, its C-Factor will decrease in turn reducing the volume of the flow because of friction. The C-Factor for the water mains on Mendota Avenue and Rowena Avenue have been calculated by the CWD at 18 and 12 respectively (See Attachment 7 of our application).

Conservatively speaking, even if the system was designed using a C-factor value of 100 for "average conditions", the water mains on these streets are operating with C-factors of 12% and 18% of the original service design. This documents a condition where the water mains have already theoretically failed.

In our narrative we also discuss how the deteriorated condition of the watermain is reducing the flow of the water mains. Flow rates are justifiably utilized in the assessment of the health and safety scoring criteria. Flow rates are, however, also a form of nondestructive testing used by the Cleveland Water Department to assess the condition of the watermain as the flow of water through the pipe is a direct reflection of the condition of the pipe. Pierre Haddad of the Cleveland Water Department's Advanced Planning and Hydraulics Group, writes in his June 3, 2019 email, "... We have investigated the area and found that the low flow is due to severely tuberculated mains and dead end conditions... We have found no other obstructions due (to) valve restrictions or maintenance in the area...." Attached to this email were the field observed fire flow rates.

Another factor that can be used to determine the condition of a water main is the break rate. This factor would help in assessing the brittleness of the water line. As you can see from the data provided in Attachment 7 from the Cleveland Water Department, the break rates are on average with the Cleveland Water Departments system wide average.

The DOPWIC Condition definition of Closed or Not Operating, per page 24 of the DOPWIC PY2022 Application Supplement is "... the condition is unusable, dangerous and unsafe. The primary components have failed...". With a required fire flow of 1500 gpm, the demonstrated fire flows of 166 gpm (Rowena) and 263 gpm (Mendota) would seem to clearly fall within the "*unusable, dangerous and unsafe*" range.

In summary, the City of Maple Heights maintains that water mains operating with C-factors estimated at 12% and 18% of the original service design, as field verified by flows of 14% and 27% of the required fire flow, are indicative of an unusable, dangerous and unsafe (Closed or Not Operating) condition as opposed to a water line that is functioning at a diminished capacity or (Critical) condition. A condition that is "Closed or Not Operating" should therefore be awarded 45 points. We hope that this explanation will be confirmed by the DOPWIC staff and allow you and the committee members to look favorably upon our request.

Thank you in advance for your consideration and please feel free to contact me with any questions that you may have regarding this appeal.

Respectfully,



Edward J. Hren, P.E.
Maple Heights City Engineer

DOPWIC STAFF RECOMMENDATIONS

Potential Impact To Preliminary Project Ranking

If the DOPWIC approves the DOPWIC Staff recommendations at the meeting on February 23, 2021, no changes will occur to the Preliminary Project Rankings Posted on the Cuyahoga County Planning Commission website on January 15, 2021:

- **Primary Recommendations** will include the top ranked projects. **#1 to #11.**
 1. CLE-22-02, East 75th Street Bridge Over Norfolk Southern Railroad and GCRTA, SCIP GRANT
 2. EUC-22-01, East 185th Street Rehabilitation (Pawnee Avenue to Lake Erie), Part 1, SCIP GRANT
 3. WOD-20-01, Chagrin Boulevard, Brainard Road East, and West Corridor Improvements - Phase 2, SCIP Grant
 4. CLE-22-03, East 185th Street Rehabilitation (Nottingham Road to Pawnee Avenue), Part 2, SCIP GRANT
 5. DPW-22-03, Ridge Road Improvement, LTIP
 6. DPW-22-01, Harvard Road(CR-43) Rehabilitation, SCIPGRANT
 7. MAP-22-02, Manhole Sewer Separation Project, Phase 2 Northeast Quadrant, SCIP Grant and Loan
 8. MAP-22-03, Mendota & Rowena Watermain Replacement Project, SCIP Grant
 9. DPW-22-02, Replacement of Existing Pleasant Valley Bridges, SCIP Grant and RLP Loan
 10. CLE-22-01, Buckeye Road Rehabilitation (Shaker Road to South Moreland), LTIP
 11. DPW-22-05, Warrensville Center Road Bridge 05.92 East and 05.92 West Rehabilitation, LTIP*

* Cannot be fully funded at this time.
- **Secondary Recommendations/Contingency Projects** will be assigned to the projects ranked **#12 to #16.**
 12. CLH-22-01, Coventry Road Rehabilitation
 13. LAK-22-01, 2022 Watermain Replacement
 14. MBH-22-01, Indian Creek/Gerald Sanitary Relief Sewer Improvement Project
 15. PAR-22-02, Pearl Road Repair and Resurfacing – Snow Road to Brookpark Road
 16. BFH-22-01 SR (17) Reconstruction Project