

Whitehouse

July 5, 2024

Meeting Notice
Village Council Meeting As
A Committee of the Whole
July 9, 2024
6:30 p.m.

The Whitehouse Village Council is encouraging citizens to consider accessing public meetings remotely. You may do so by phone at 1-567-318-0438. You will then be prompted to press the following Meeting ID 960287013#. You may also access the meeting online by going to the Village website at www.whitehouseoh.gov and clicking on the link from the home page, please make sure you mute your microphone.

Notice is hereby given that the Whitehouse Village Council will meet as a Committee of the Whole on Tuesday, July 9, 2024 at 6:30 p.m.

AGENDA

- I. Call to Order
- II. Roll Call
- III. Review and Approval of the June 11, 2024, Committee of the Whole Meeting Minutes
- IV. Citizen Comments on Committee of the Whole Agenda Items
- V. **General**
 - A. Consideration of the Surface Transportation Grant Application
 - 1. **Supporting Information** – Memo from Director of Public Service (Exhibit 1)
 - B. Review Sanitary Sewer Main Line Evaluation
 - 1. **Supporting Information** – Memo from Director of Public Service (Exhibit 2)
 - C. Charter Discussion
 - 1. **Supporting Information** – None
- VI. Citizen Comments
- VII. Consider Other Business as Appropriate Under the Village Charter
- VIII. Adjourn

**Village of Whitehouse
Village Council Meeting As A
Committee of the Whole
Village Hall, Whitehouse, OH
6:30pm June 11th, 2024**

CALL TO ORDER – ROLL CALL

Meeting called to order at 6:30pm by President of Council Louann Artiaga.

Council Members Present: Dave Riggenbach, Carrie Tuohy, Steve Fine, Steve Connelly, Larry Yunker and President of Council Louann Artiaga

Council Members Absent: None

Staff Present: Administrator Jordan Daugherty, Deputy Administrator Joshua Hartbarger, Clerk Nicole Hartbarger, Mayor Rich Bingham, Fire Chief Jason Francis

Guests Present: Karen Gerhardinger

Motion by Councilman Dave Riggenbach, seconded by Councilman Steve Fine to approve the minutes of the June 4th, 2024 Committee of the Whole meetings. 6 ayes

CITIZEN COMMENTS ON COMMITTEE OF THE WHOLE AGENDA ITEMS

Council President Louann Artiaga asked if there were any citizen comments to be made regarding the agenda items. There were none.

GENERAL

Continued Review of Charter Commission Proposed Changes to Whitehouse Charter

Councilwoman Artiaga comments that there are three topics that will be proposed for changes on the upcoming ballot. These three topics need to be finalized in order to be drafted and sent to the Board of Election in time to be put on the ballot. The three topics were discussed individually.

A. Board of Elections/Primaries

- Councilman Riggenbach asks for clarification on when a primary is required, three times the number of seats available +1, he believes the +1 might be missing. Administrator Daugherty believes the wording 'full term in excess of three' includes plus one. Councilman Fine confirms current charter says 'in excess', all agree this is fine.
- Fine asks for confirmation on readings, are they emergencies or three readings. Artiaga confirms three readings. Fine asks do we need to update ballot title language because right now the two proposed updates read the same – should they be different so voters know they are voting on two different topics. Artiaga not sure if it can be changed but it does list the specific section of the charter. Fine comments that it is currently titled "Village charter amendment". Riggenbach asks can we include some layman's terms in title. Administrator Daugherty agrees we do need to have some clarity on that.
- Fine comments there are two sections, depending on date chosen, that may require minor modifications. Sections referring to Council vacancies and Mayor vacancy need to be synched up. Riggenbach asks confirming with those comments, that we need to nail down a primary date. Yunker comments we would probably want to try and piggy back any

primary on any other communities who may be having one – other Council members in agreement. Fine confirms Solicitor Heban left a placeholder for the date so Council can make that decision. He mentions they should ask Heban to set the date to be the same as Oregon's date which is the latest option. All of Council in agreement. Riggensbach says then we do the backwards math to get the turn in date for the petitions and the vacancy date.

B. Mayor Vacancy

- Artiaga says our intent and the way the proposed change is laid out doesn't seem to coincide.
- Riggensbach shares he interpreted if current Mayor becomes vacant, President of Council becomes Mayor then that person has 30 days to decide if they want to maintain her President of Council seat but does stay interim Mayor until the next available election. He does not feel this was the intention if that was a correct interpretation, as they do not want a vacant Council seat for almost two years worst case.
- Fine comments if Mayor office vacated and President took over, he feels there would be an election next year.
- Riggensbach says do we want to have a situation where we have only 5 Council members for a possibility of 2 years, thought we were trying to avoid that. Tuohy agrees and thought we decided that President would have time to decide. Artiaga agrees language does feel very muddy.
- Fine comments that he feels like we provided Ohio Revised Code, and Heban did follow that with this language, but it might not follow exactly what we were trying to get to.
- Yunker asks if President says they do not want to stay labeled as President of Council and take back their Council seat what are we understanding, do we expect that another Council member would take over Interim Mayor and then it would open a Council seat that way.
- Administrator Daugherty confirms language as he interprets, helps Council with some clearing up.
- Mayor Bingham shares that one of the questions that happened last year during election, if someone is Interim Mayor as President of Council is then beat in the general election when running for Mayor could we possibly have that person still as Interim Mayor after they were technically voted out of Council – we do need to review that situation.
- Artiaga questions, we said three readings for ballot but can we continue to work and adjust language through those readings or does it have to be read same all three readings.
- Daugherty comments that other charters he has reviewed are not as complex as ours, others put more municipal authority in the President of Council position. He says if someone is accepting nomination for Mayor they are giving up their Council seat, if torn on taking the risk, then don't accept the nomination. Tuohy agrees, if you are accepting a Mayor nomination you are accepting that other responsibility.
- Artiaga asks for Daugherty to work with Heban on updating the language to reflect that understanding. Daugherty summarizes – want provision to identify that President of Council in Mayors absence becomes by default Mayor in next general election which would be less than 2 years as that is every two years; when that happens that creates a vacancy to be filled by normal nominating process that we currently have. Only difference from previous is that President of Council does not have the choice to pick and choose, they can accept or not at time of election. Daugherty says the next draft will be before the next Council meeting, he will work with Heban.

C. Council meetings

- Artiaga asks are we still moving forward with other three issues, how often to meet, where to meet and where notices are posted. Tuohy comments she feels like Heban said those were already handled and taken care of.
- Daugherty will ask for those five pieces in resolution form to be adopted.

Yunker shares one more comment on mayor topic, he says we probably want something to address issue if Mayor vacancy occurs after deadlines for vacancies, we would possibly have a gap; do we say we make an exception on the deadlines for vacancies. Riggensbach comments this is part of the responsibilities of accepting President of Council, if it is past deadline President of Council is done. All in agreement.

FINANCE

Discuss Potential of Selling Property Currently Leased by Brian S. Carroll LLC (aka General's Ice Cream)

Motion by Councilwoman Artiaga, seconded by Councilman Connelly at 7:02pm to enter into executive session to discuss topic of property. 6 ayes

Motion by Councilwoman Artiaga, seconded by Councilwoman Tuohy at 7:24pm to reconvene the Committee of the Whole meeting. 6 ayes

Discuss Staff's Plan and Other Potential Ideas Regarding Use of Remaining COVID Funds

Daugherty states he and Councilwoman Artiaga had some discussion last week. He shares that Council already aware of remaining covid funds, around \$164k now. Daugherty shares that he will provide ideas to get conversation started on what to spend remaining funds on.

Daugherty shares that three years ago, when funds were made available, the village was in financial difficulty. The big concern then was how to stretch funds out to the point in the future where these funds will be useful. Plan was to not get all new items, but to look more long term at capital projects, etc. to relieve the general fund. Daugherty says that this is what has been done for the last three years they went after items that were part of the capital plan that would help with the future budgeting process.

Daugherty's recommendation is to operate the same going forward with focusing on alleviating any struggle in the capital plan; he understands that Council may have different ideas for the funds but this gets the conversation started. In the spreadsheet that was shared with Council, Daugherty states they are starting with the beginning balance after completion of purchase of previously approved backhoe. Daugherty discusses the expense ideas in the spreadsheet starting with updating computers and systems for staff. He shares that he understands that Windows10 is wreaking havoc on computers in the building and struggling, need updates here. Looking at tough books, special for EMS, do have to purchase these, do need this update in the emergency response vehicles. Shopped out through Triotech – 4 units plus the docking stations. He comments that several municipal computers need to be updated as well, 38 total items between laptops, desktops, docks, rugged laptops, etc. – this expense would have to come out of the general fund but idea would be to use the covid funds to help cover. Daugherty shares the four toughbooks are around \$27k, the municipal items total \$24k.

Next idea to make taxpayer dollars go further is to purchase a police cruiser. Daugherty says we are in the 6th year of purchasing a new cruiser every other year, where we used to buy them every

year. Instead of buying newer vehicles for administrative staff, meetings, etc., we have been recycling the old cruisers into the Village fleet. Daugherty says that if we buy new cruiser then we will not buy one for two years; we will put the one coming off fleet into the service department as one general use vehicle is currently about done.

Lastly, Daugherty shares they are looking to do a public project, idea of previously discussed State Route 64 beautification projects. Fine asks for more detail on this. Daugherty says part of next month's meeting will give all a catalog of projects that are on the list. One of those is a large stone-built flower box, around 6-8 feet wide and 3 feet tall and start to line State Route 64 with this – stones are fairly expensive. Daugherty shares he does want to present these ideas to Council with the renderings for better visualization.

Council comments and discussion:

- Yunker says he is good with all suggestions, but would like to hear more about beautification projects. Still on the fence of the idea of mini roundabouts to avoid slower/more congestion to get into town. Daugherty says these are pedestrian roundabouts, Yunker says ok, would like to understand the ideas.
- Connelly comments that he likes them all, only thought is on the net of State Route 64 dollars. On survey, roughly 100 responses so far, #3 item out of 16 items is improvement to walkability and connectivity, sidewalks around town. He asks can we use some of this feedback to help make some funds decisions. He feels these are tough decisions because we do get compliments on how beautiful the Village is and would like to keep that up.
- Fine comments that staff has picked some good projects. One direction wondering about is back to vote on the levy, strong preference to managing our costs. Is there any way to invest this money to manage the costs. Replacing streetlights with LED for example, repay ourselves in 5 years, cost savings topics that could set us up better to manage costs in the future.
- Tuohy agrees computers are very important, fully behind that idea. Recommendations are appreciated. Mini roundabouts are not high on list of updates but open to hearing more.
- Riggensbach comments he is not sure what funds can be used for, since they were Covid funds. He asks can we use some from the grant perspective and to work with some downtown owners to finish updating and refacing buildings downtown. Daugherty shares we would suggest to find equivalent value in other things that we know are fully approved for covid money and then earmark that value. Riggensbach asks about State or Federal grants out there to tie in and support that as well. Artiaga shares those grants would be attached to a timeline that goes years into the future where covid money has to be spent sooner. Riggensbach shares he agrees with State Route 64 beautification efforts, but does not feel like the downtown beautification efforts are entirely done.
- Mayor Bingham asks question to Daugherty regarding the \$7,657 that left – Daugherty says that would be what is left over after the presented budget is approved. Bingham brings up topic of ramp going down dock to pond in the park. Daugherty explains 7-8 years ago engineering estimates were obtained for new dock and ADA accessible, which was around \$250k estimate. He comments even if done in house with treated lumber, etc. could still be tens of thousands of dollars. Four years ago the estimate updated, was still around \$200k. Riggensbach asks about possibility of an observation deck that doesn't go down further but feeling of over the water. Daugherty agrees this is a good idea; could get rid of current dock entirely.
- Bingham comments he has no problem with any items suggested.

- Daugherty confirms he is hearing top three items not having any issues with, and staff can hold off on fourth item.
- Artiaga shares the only other item for wish list is replacing sign at the front of Village park. Yunker shares he spoke with Mark Foster who built the original sign for the park back in the 80's. Recommends to at least have conversation with this same person. Artiaga asks what happened to funding for signage around the Village; Daugherty says still there and using it slowly especially for main entrances into the Village.
- Bingham comments on topic regarding downtown area, Council and the Village did offer grants to help businesses improve; First Federal Delta used it, and entrance into business park did as well.

CITIZEN COMMENTS

Council President Artiaga asked if there were any general citizen comments to be made. There were none.

OTHER BUSINESS

Council President Artiaga asked for comments on other business from all Committee of the Whole members. There were none.

ADJOURNMENT

Motion by Councilman Riggenbach, seconded by Councilman Fine to adjourn the meeting at 7:54pm. 6 ayes

Respectfully submitted by Nicole Hartbarger, Clerk of Council

MEMORANDUM

TO: Mayor and Village Council

FROM: Steve Pilcher, Director of Public Service

SUBJECT: Surface Transportation Grant Application

DATE: July 5, 2024

On May 17th, Toledo Metropolitan Council of Governments (TMACOG) sent an email to local government agencies soliciting Surface Transportation Block Grant (STBG) applications for roadway resurfacing, rehabilitation and construction projects. Potential projects must be on federal-aid eligible roadways, and the local match must be at least 20%. The application deadline is set for July 19th.

In reviewing possible project roadways eligible with Kleinfelder (Exhibit A), it was determined Whitehouse has three (3) roadways eligible, SR64, Finzel Rd. and Weckerly Rd. Of the three eligible roadways, the roadway with the lowest scoring for pavement rating is Finzel Rd., scoring at 74 North of Dutch Rd, and 79 South of Dutch Rd (see Exhibit B).

Taking into account Councils desire to complete a pedestrian plan on Weckerly Road, the pedestrian path was also a consideration for a separate application.

Preliminary discussions were held with TMACOG to gather feedback on these possible project applications. In this meeting the approach of combining the two projects to improve the overall scoring on the application was mentioned. Considering the known scoring of the grant program, in applying for this round of STBG funding, this is the appropriate approach.

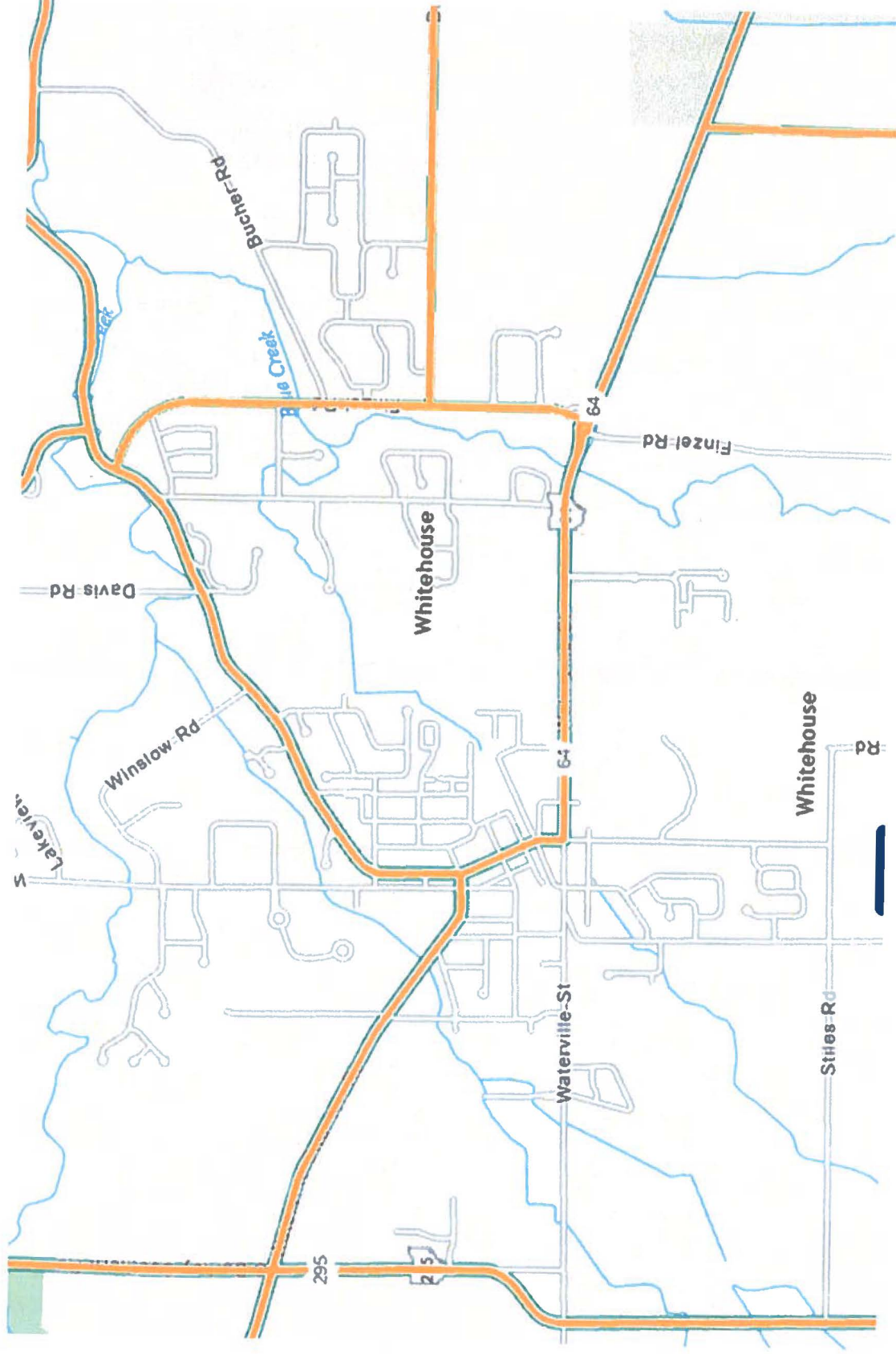
At a separate meeting on July 1st, a meeting and discussion with ODOT on other available funding sources for this and other potential projects in Whitehouse took place. In reviewing the proposed STBG application with ODOT, the option for an alternate to the current T-intersection at Dutch Rd. and Finzel Rd. was discussed. The option of a modified Roundabout at this intersection was suggested as a viable option for improving the intersection by slowing traffic and eliminating the possibility of T-crashes as well as funding sources through ODOT programs were discussed. The application for funding on this portion of the project, if considered, is March 2025. The recommendation is to further discuss the merits of this project and consider this upcoming application.

Staff is requesting that Council authorize the Administrator to make application for the STBG funding. This is for application only and does not commit any funds currently. If the STBG project is awarded, Staff will return to Council and request to move forward at that time.

Respectfully Submitted,

Steven Pilcher, Director of Public Service

Eligible Roads



PCR (PAVEMENT CONDITION RATING)



MEMORANDUM

TO: Mayor and Village Council

FROM: Steve Pilcher, Director of Public Service

SUBJECT: Sanitary Sewer - Mainline Evaluation

DATE: July 5, 2024

On October 13, 2023, Council was presented and approved, a request to contract with Jones and Henry Engineers to evaluate the condition of portions of sanitary sewer main line sewers, with the end product being, to make a recommendation on future maintenance of the mains inspected.

The mains inspected are located on Centerville Street., Shepler Street., Lenderson Avenue., Weckerly Drive and Logan Street.

The sanitary sewer main in question was installed in approximately 1962. The industry standard for useful life for sewers in between 50 and 100 years. Most recently this useful life estimate has been reduced to 40 years in some instances, depending on the effluent and the maintenance taken to extend the life of the pipe material.

The condition of the sanitary sewer mains was found to be in poor condition, showing signs of material loss in sections of concrete pipe and lateral cracking in several locations. These conditions allow ground water to enter the main and will eventually lead to pipe failure.

The recommendation for the portions of sanitary sewer inspected is to have the pipe lined with a cure in place (CIP) pipe liner. This would extend the life of the sewer and not require the replacement of the sewer by excavation.

The manholes along the sections of the project are recommended to be relined utilizing a spray on coating system. This method of manhole preservation has been used by Whitehouse in the past and has been successful.

The engineers estimate for rehabilitation of the sanitary sewer main line to include laterals and manholes addressed in the report is \$1,053,456.00.

The recommendation for moving forward is to nominate this project for funding through Ohio Environmental Protection Agency (OEPA) - Water Pollution Control Loan Fund (WPCLF). If the nomination is accepted, staff will return to Council requesting authorization to bid the project. The funding would most likely be over a 20-year term at a low interest rate.

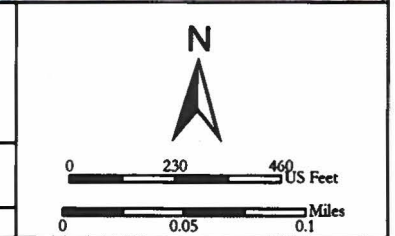
The requested action item out of this presentation is a request for Council to authorize the Administrator to nominate the Whitehouse – Sanitary Sewer Rehabilitation Project – Phase 1, to OEPA-WPCLF for future funding consideration.

Respectfully Submitted,

Steven P. Pilcher
Director of Public Service



Whitehouse Sewer Rehabilitation: Main Rehabilitation	
County of Wood, OH, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Maxar	2024
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet	



Whitehouse Sewer Rehabilitation: Main Rehabilitation

Pipe Materials: Polymer Concrete, Vitrified Clay
Pipe Diameters: 8", 10", 12"

Total Footage: 5,206 LF

Estimated Construction Cost: \$492,800

Cured-in-Place Liners

Item No.	Upstream MH	Downstream MH	Diameter	Material	Length (ft)	Approx. Depth (ft)
1	51	52	8"	Vitrified Clay Pipe	327	10
2	54	38	8"	Polymer Concrete Pipe	196	16
3	25	55	10"	Polymer Concrete Pipe	412	20
4	246	255	12"	Polymer Concrete Pipe	401	16
5	52	53	8"	Vitrified Clay Pipe	116	10
6	53	54	8"	Polymer Concrete Pipe	194	12
7	38	25	10"	Polymer Concrete Pipe	322	19
8	55	246	10"	Polymer Concrete Pipe	196	19
9	255	197	12"	Polymer Concrete Pipe	346	17
10	197	198	12"	Polymer Concrete Pipe	164	10
11	247	246	10"	Polymer Concrete Pipe	303	19
12	254	253	10"	Polymer Concrete Pipe	310	22
13	198	131	8"	Polymer Concrete Pipe	104	18
14	131	130	8"	Polymer Concrete Pipe	286	18
15	253	2477	10"	Polymer Concrete Pipe	298	22
16	2477	247	10"	Polymer Concrete Pipe	283	19

Sewer Pipe Joint Grouting

Item No.	Upstream MH	Downstream MH	Diameter	Material	Grout Amt (Gal)	Length (ft)
1	51	52	8"	Vitrified Clay Pipe	164	327
2	54	38	8"	Polymer Concrete Pipe	98	196
3	25	55	10"	Polymer Concrete Pipe	258	412
4	52	53	8"	Vitrified Clay Pipe	58	116
5	53	54	8"	Polymer Concrete Pipe	97	194
6	38	25	10"	Polymer Concrete Pipe	201	322
7	255	197	12"	Polymer Concrete Pipe	260	346
8	197	198	12"	Polymer Concrete Pipe	123	164
9	198	131	8"	Polymer Concrete Pipe	52	104
10	131	130	8"	Polymer Concrete Pipe	143	286
11	246	255	12"	Polymer Concrete Pipe	301	401
12	253	2477	10"	Polymer Concrete Pipe	186	298
13	55	246	10"	Polymer Concrete Pipe	123	196
14	247	246	10"	Polymer Concrete Pipe	189	303
15	254	253	10"	Polymer Concrete Pipe	194	310
16	2477	247	10"	Polymer Concrete Pipe	177	283

Sectional Liners

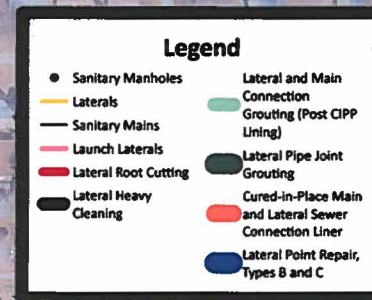
Item No.	Downstream MH	Upstream MH	Diameter	Pipe Material	Liner Dimensions	Approx. Depth (ft)
1	51	50	8"	Clay	8"x48"	9
2	51	50	8"	Clay	8"x48"	9

Heavy Cleaning

Item No.	Upstream MH	Downstream MH	Diameter	Material	Length (ft)
1	51	52	8"	Vitrified Clay Pipe	327
2	54	38	8"	Polymer Concrete Pipe	196
3	25	55	10"	Polymer Concrete Pipe	412
4	50	51	8"	Vitrified Clay Pipe	388
5	52	53	8"	Vitrified Clay Pipe	116
6	53	54	8"	Polymer Concrete Pipe	194
7	255	197	12"	Polymer Concrete Pipe	346
8	247	246	10"	Polymer Concrete Pipe	303
9	198	131	8"	Polymer Concrete Pipe	104
10	131	130	8"	Polymer Concrete Pipe	286
11	2477	247	10"	Polymer Concrete Pipe	283

Sanitary Sewer Main Rehabilitation Totals

Item Description	Unit	Quantity
Cured-in-Place Liners	Feet (LF)	4259
Heavy Cleaning	Feet (LF)	2956
Sewer Pipe Joint Grouting	Gallons (Gal)	2624
Sectional Liners	Each (EA)	2

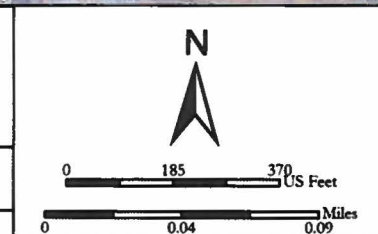


Whitehouse Sewer Rehabilitation: Lateral Rehabilitation

Maxar, Microsoft, County of Wood, OH, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS

2024

Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet



Whitehouse Sewer Rehabilitation: Lateral Rehabilitation

Lateral Materials: Vitrified Clay Pipe
Lateral Sizes: 6", 8"

Number of Laterals: 34

Estimated Construction Cost: \$325,000

Launch Laterals

Item No.	Size (in)	Repair Length (LF)
1	8	15
2	6	15
3	6	15
4	4	15
5	6	15
6	6	15
7	6	15
8	6	15
9	8	15
10	6	15
11	6	15
12	6	15
13	6	15
14	6	15
15	6	15
16	6	15

Lateral and Main Connection Grouting (Post CIPP Lining)

Item No.	Size (in)	Approx. Grout Amount (Gal)
1	8	2
2	6	2
3	8	2
4	8	2
5	6	2
6	6	2
7	6	2
8	6	2
9	6	2
10	6	2
11	6	2
12	4	1
13	6	2
14	4	1
15	6	2
16	6	2
17	6	2
18	6	2
9	6	2
20	6	2

Cured-in-Place Main and Lateral Sewer Connection Liner

Item No.	Liner Size	Lateral Diameter (in)
1	8"x6"	6
2	8"x6"	6
3	8"x6"	6
4	8"x4"	4
5	8"x6"	6
6	8"x6"	6
7	8"x6"	8
8	8"x6"	6
9	8"x6"	6
10	8"x6"	6
11	8"x6"	6
12	8"x6"	6
13	8"x6"	6

Lateral Root Cutting

Item No.	Size (in)	Repair Length (LF)
1	6	5
2	6	5
3	6	5

Lateral Point Repair, Types B and C

Item No.	Repair Length (LF)	Size (in)	Notes
1	5	6	Repair at offset joint with root intrusion

Lateral Heavy Cleaning

Item No.	Size (in)	Repair Length (LF)
1	6	10
2	6	10
3	6	10
4	8	10
5	6	10
6	6	10
7	6	10

Lateral Pipe Joint Grouting

Item No.	Approx. Grout Amount (Gal)	Size (in)
1	8	6
2	8	6

Lateral Rehabilitation - Totals

Item Description	Unit	Quantity
Launch Laterals	Feet (LF)	240
Lateral Root Cutting	Feet (LF)	15
Lateral Heavy Cleaning	Feet (LF)	70
Lateral and Main Connection Grouting	Gallons (Gal)	38
Lateral Pipe Joint Grouting	Gallons (Gal)	16
CIPP Main and Lateral Sewer Connection Liner	Each (EA)	13
Lateral Point Repair, Types B and C	Feet (LF)	5



Legend

● Sanitary Manholes	● Manhole Channel Reconstruction
— Laterals	● Manhole Frame & Cover Replacement
— Sanitary Mains	● Inside Drop Pipe
○ Manhole Root Cutting	● Manhole Heavy Cleaning
● Manhole Grouting	● Sanitary Manhole Casting Adjustment
● Sanitary Manhole Protective Coating	

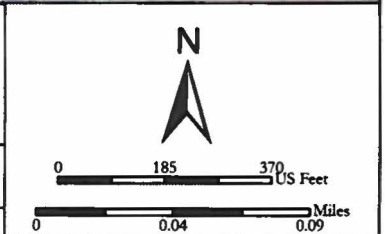


**Whitehouse Sewer Rehabilitation:
Manhole Rehabilitation - Option 1 (OBIC)**

Maxar, Microsoft, County of Wood, OH, Esri, TomTom, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Maxar
USFWS

2024

Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet



Whitehouse Sewer Rehabilitation: Manhole Rehabilitation - Option 1 (OBIC)

MH Materials: Precast Concrete, Protective Coating
Structure Sizes: 48"

Number of Structures: 19
Range of Depth: 10'-22'

Estimated Construction Cost: \$96,200

Manhole Root Cutting

Item No.	MH ID	Material	Approx. Depth (ft)	Surface Type
1	247	Precast Concrete	19	Street

Sanitary Manhole Protective Coating

Item No.	MH ID	Material	Approx. Depth (ft)
1	52	Protective Coating (OBIC)	10
2	51	Precast Concrete	9
3	50	Precast Concrete	11
4	247	Precast Concrete	20
5	198	Precast Concrete	10
6	25	Precast Concrete	19
7	246	Precast Concrete	19
8	254	Precast Concrete	18
9	255	Precast Concrete	16
10	131	Precast Concrete	18
11	38	Precast Concrete	16
12	55	Precast Concrete	20

Manhole Frame & Cover Replacement

Item No.	MH ID	Material	Surface Type
1	197	Precast Concrete	Yard
2	52	Protective Coating (OBIC)	Yard
3	54	Precast Concrete	Street
4	51	Precast Concrete	Yard
5	49	Precast Concrete	Yard
6	50	Precast Concrete	Yard
7	247	Precast Concrete	Street
8	198	Precast Concrete	Street

Manhole Heavy Cleaning

Item No.	MH ID	Material	Approx. Depth (ft)
1	247	Precast Concrete	20
2	25	Precast Concrete	19

Manhole Channel Reconstruction

Item No.	MH ID	Material
1	255	Precast Concrete
2	247	Precast Concrete
3	198	Precast Concrete
4	25	Precast Concrete
5	38	Precast Concrete
6	55	Precast Concrete
7	254	Precast Concrete

Sanitary Manhole Casting Adjustment

Item No.	MH ID	Material	Surface Type
1	54	Precast Concrete	Street
2	247	Precast Concrete	Street

Inside Drop Pipe

Item No.	MH ID	Material	Approx. Depth (ft)	Approx. Drop Pipe Length (VLF)
1	197	Precast Concrete	17	10
2	255	Precast Concrete	16	6
3	54	Precast Concrete	12	1
4	131	Precast Concrete	18	18
5	55	Precast Concrete	20	3

Manhole Rehabilitation - Option 1 Totals

Item Description	Unit	Quantity
Manhole Root Cutting	Each (EA)	1
Sanitary Manhole Protective Coating	Vertical Feet (VLF)	186
Inside Drop Pipe	Vertical Feet (VLF)	38
Manhole Grouting	Gallons (Gal)	10

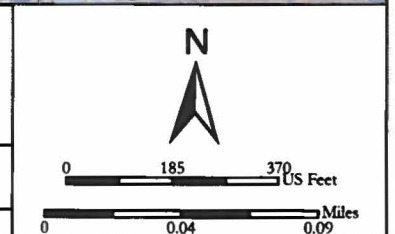
Item Description	Unit	Quantity
Manhole Frame & Cover Replacement	Each (EA)	8
Manhole Heavy Cleaning	Each (EA)	2
Manhole Channel Reconstruction	Each (EA)	7
Sanitary Manhole Casting Adjustment	Each (EA)	2

Manhole Grouting

Item No.	MH ID	Material	Approx. Depth (ft)	Approx. Grout Amount (Gal)	Surface Type
1	246	Precast Concrete	19	10	Street



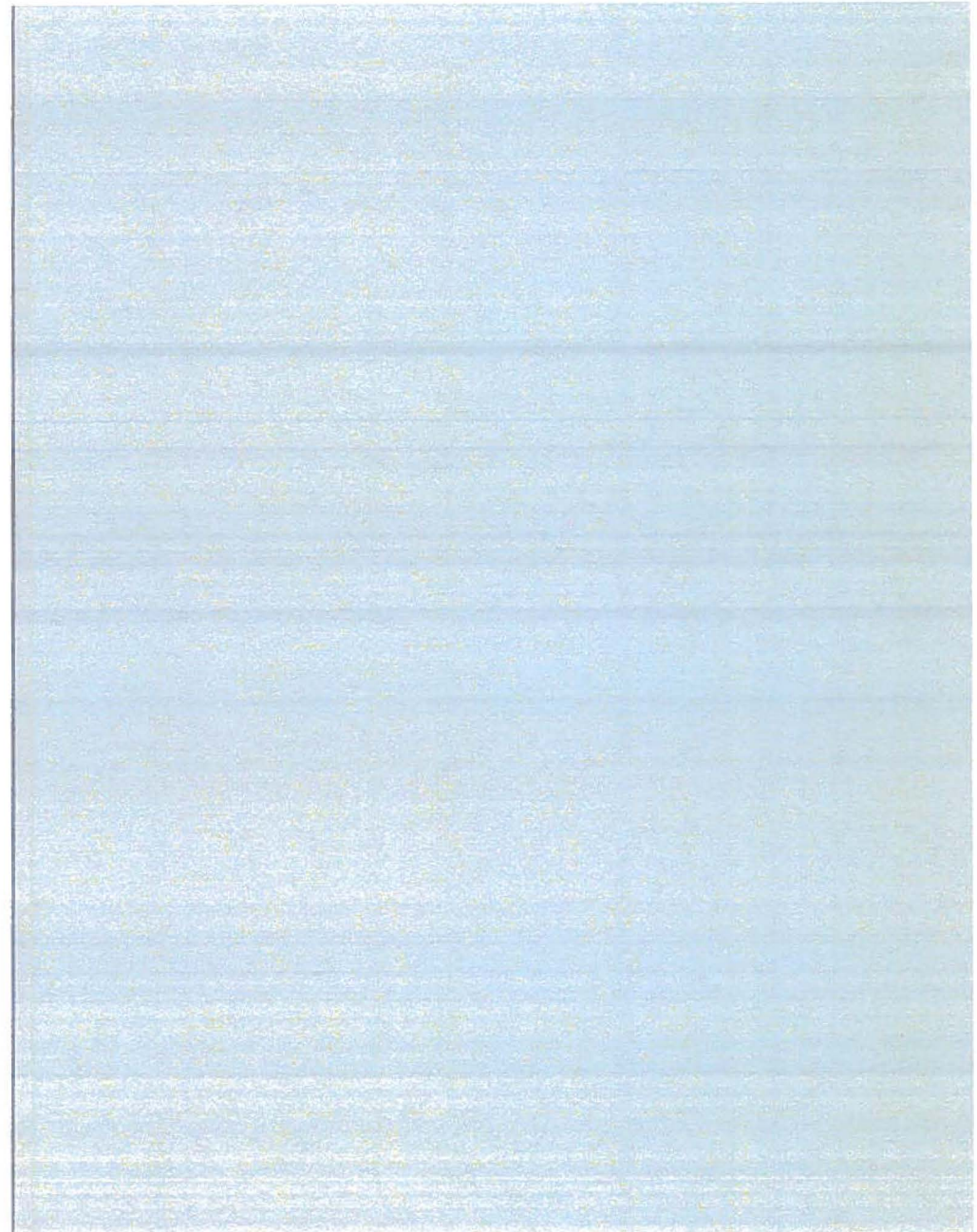
Whitehouse Sewer Rehabilitation: Additional Rehabilitation - Main	
County of Wood, OH, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Maxar	2024
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet	



Engineers Opinion of Probable Construction Cost

Project	Village of Whitehouse	Date:	May 29, 2024
Location	Whitehouse, OH	Estimator:	EAJ
Project	2024 Sewer Rehabilitation	Checked By:	AMB
	Additional Work	Project No.:	334-8116.001

Item No.	Description	Qty.	Unit	Unit Amount	Total Amount
	8-inch Sewer Cleaning, Testing and Preconstruction Televising	447	LF	\$ 5.00	\$ 2,235.00
	Lateral Sewer Cleaning and Preconstruction Televising	133	LF	\$ 5.00	\$ 665.00
	Sewer Pipe Joint Grouting	149	GAL	\$ 6.00	\$ 894.00
	8-inch x 4-inch Cured-in-Place Main and Lateral Sewer Connection Liner	2	EA	\$ 5,600.00	\$ 11,200.00
	8-inch x 6-inch Cured-in-Place Main and Lateral Sewer Connection Liner	8	EA	\$ 5,600.00	\$ 44,800.00
	10-inch x 6-inch Cured-in-Place Main and Lateral Sewer Connection Liner	8	EA	\$ 7,000.00	\$ 56,000.00
	12-inch x 6-inch Cured-in-Place Main and Lateral Sewer Connection Liner	1	EA	\$ 5,560.00	\$ 5,560.00
	8-inch Cured-in-Place Pipe Liners (Steam Inversion)	447	LF	\$ 57.00	\$ 25,479.00
	Post Construction CCTV Inspection of Tested and Grouted Sewers	447	LF	\$ 2.00	\$ 894.00
	Post Construction CCTV Inspection of CIPP Lined Sewers	447	LF	\$ 2.00	\$ 894.00
	Post Construction CCTV Inspection of CIPP Lined Main and Lateral Sewer Connection	19	EA	\$ 165.00	\$ 3,135.00
Total Construction Cost					\$ 151,756.00
Construction Contingencies (~10%)					\$15,176
Total Opinion of Construction Costs					\$ 166,900.00





Legend

- Sanitary Manholes
- Laterals
- Sanitary Mains
- Cured-in-Place Main and Lateral Sewer Connection Liner

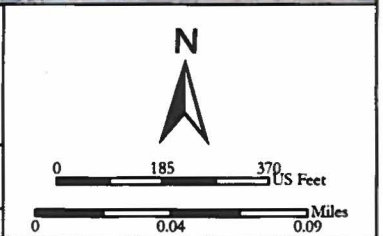


Whitehouse Sewer Rehabilitation: Additional Rehabilitation - Laterals

Maxar, Microsoft, County of Wood, OH, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS

2024

Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet



Whitehouse Sewer Rehabilitation:

Additional Rehabilitation Work

Pipe Materials: Polymer Concrete, Vitrified Clay
Pipe Diameters: 6", 8", 10", 12"

Length Rehabbed in Additional Work: 447 LF
of Laterals Rehabbed in Additional Work: 19

Estimated Construction Cost: \$166,900
Cost Removed from other Estimates: ~\$27,950

Sewer Pipe Joint Grouting

Item No.	Upstream MH	Downstream MH	Diameter	Material	Approx. Grout Amount (Gal)	Length (ft)
1	49	50	8"	Vitrified Clay Pipe	20	59
2	50	51	8"	Vitrified Clay Pipe	129	388

Cured-in-Place Liners

Item No.	Upstream MH	Downstream MH	Diameter	Material	Length (ft)	Approx. Depth (ft)
1	49	50	8"	Vitrified Clay Pipe	59	11
2	50	51	8"	Vitrified Clay Pipe	388	9

*If this work is opted for, the sectional liners that are included in the main work will no longer be needed.

Additional Rehabilitation Work Totals

Item Description	Unit	Quantity
Sewer Pipe Joint Grouting	Gallons (Gal)	149
Cured-in-Place Liners	Feet (LF)	447
CIPP Main and Lateral Sewer Connection Liner	Each (EA)	19

Cured-in-Place Main and Lateral Sewer Connection Liner

Item No.	Liner Size	Lateral Diameter (in)
1	8"x6"	8
2	8"x6"	6
3	8"x6"	8
4	8"x6"	8
5	8"x6"	6
6	8"x6"	6
7	8"x6"	6
8	10"x6"	6
9	10"x6"	6
10	12"x6"	6
11	8"x4"	4
12	8"x6"	6
13	8"x4"	4
14	10"x6"	6
15	10"x6"	6
16	10"x6"	6
17	10"x6"	6
18	10"x6"	6
19	10"x6"	6

*If this work is opted for, the lateral and main connection post CIPP grouting will not be necessary.