



**To:** Public Works Committee  
Safety & Public Properties Committee

**Date:** Month ending September 2023

**ENGINEERING DEPARTMENT UPDATE**

**RESIDENTIAL & COMMERCIAL REVIEWS AND PERMITTING**

**A. Summary of Permits**

Type	August	2023 YTD	
	Submitted	Submitted	Issued
Residential Driveway	12	91	82
Sewer Tap	0	18	18
Erosion/Downspout	0	0	0
Heavy Load	0	2	2
Right of Way	7	81	63
Building Department (Commercial & Residential)	136	1,248	1,155
<b>Totals</b>	155	1,440	1,320

**B. Commercial Construction Projects**

**1. Under Construction**

- Omni Independent Living Phase II
- MP Biomedics Phase II

**3. Substantially Complete**

- CVIC
- Chabad
- MP Biomedics Phase I
- Mercury Machine
- Omni HQ
- Omni Assisted Living
- Omni Independent Living
- Swagelok
- Wendy's

**2. Completed This Month:**

**C. Preliminary Planning Meetings: 1**

**INFRASTRUCTURE PROJECT UPDATE**

**A. Under Study and/or Design**

**1. Solon Road Sidewalk Improvements**

Status unchanged. Work on this project will be on hold pending the outcome of the Liberty Ford property redevelopment proposal.

**2. SOM/Cannon Road Intersection Improvements**

Status unchanged. R.E. Warner submitted a preliminary alignment of the intersection for the City's review.

**3. Sanitary Sewer Master Plan**

Status unchanged. Smoke and dye testing is complete for areas of the Liberty Road and Pettibone Road. The areas of South Roundhead; from Hambleton Drive to Hollyock Drive and Cheshire Place will start September 14th, 2020. Starting October 5th, Aurora Road east of Highland Drive, Geauga Street, Summit Street, Portage Street, Edith Street and Willow Street will be smoke tested. All testing is complete and letters have been sent out. A proposal from B&N to evaluate the sanitary sewers tributary to the sanitary on South Roundhead was approved. B&N was authorized to start the project. Sewer flow monitors are installed and collecting flow data. Nerone completed manhole rehabilitation of sewer sanitary manholes in the CEI easement. The City's Sewer Division is considering dye testing on the streets of Geauga Street, Summit Street, Portage Street and Willow Street. Resident notices for dye testing have been sent out and dye tests are being scheduled and completed.

#### **4. US 422/Harper Road Diverging Diamond**

GPD design work is underway. Project was recommended to receive an additional 2.414M in grant funding through the Surface Transportation Reauthorization Legislation. A project work session was held with GPD in early September. Stage 1 plans are complete and were submitted to ODOT. A contract modification for GPD to extend the project to Cannon Road was approved. Storm sewers have been televised by the Service Department and are being reviewed. The Engineering Department applied for RAISE funding for the project. A utility coordination meeting was held on March 23, 2022. The Finance Department also applied for INFRA funding for the project. Unfortunately the City did not receive the grant. Request for Right of Way acquisition services will be posted soon. The City received the LPA agreement from ODOT for the project and it has been approved. A contract modification for GPD was approved to replace the existing storm sewer. Proposals for the Right of Way acquisition have been requested. A progress meeting with ODOT was held on January 24, 2023. Contracts for the right of away acquisition are signed. RAISE Grant was submitted on February 28, 2023. Appraisals for right of way acquisition are complete. City comments were sent to GPD. Appraisals were accepted by the City and sent to the right-of-away acquisition agent. Right-of-away acquisition is ongoing. The dedication of right-of-way from the Fire Station 1 was approved by City Council on June 20, 2023. Right of way appropriation legislation was approved for the outstanding parcels. Three appropriation cases will be filed.

#### **5. SOM Center/Pettibone Intersection Improvements**

Status unchanged. The Engineering Department has completed our review and will make an alignment recommendation to GPD. The City met with GPD on January 25th to go over the alignment alternatives. GPD was authorized to start the final design. A new alignment has been submitted to the City for review.

#### **6. Solon Road Reconstruction (Aurora to Bainbridge)**

The design work is on-going. The geotechnical work is complete. City requested quote from B&N to replace an additional storm sewer on Bainbridge Road. Dominion East Ohio Gas will be performing a second betterment project to replace gas lines on Solon Road from the Police Station to Bainbridge Road and on Bainbridge Road from Solon Road to SOM Center Road. Therefore, the City's project to reconstruct Solon Road will be delayed a year. A design contract modification for B&N to replace a storm sewer on Bainbridge Road was approved. The project has been postponed pending the Dominion gas relocation project. Reconstruction of the retaining wall at the northwest corner of Solon Road/Bainbridge Road intersection was added to the project. Gas relocation work is scheduled to start February 16, 2023. Work has been rescheduled to start in April. Gas relocation work is complete. Restoration for the gas line project is ongoing. A walk through for the gas relocation project is being scheduled.

#### **7. Aurora Road Reconstruction Ph 2 (Liberty to east corp. line)**

Status unchanged. Survey work is complete. The City applied for CMAQ funding. The deadline was May 26, 2022. The City resubmitted for CMAQ funds on May 5, 2023.

#### **8. Naiman Parkway Pump Station & Force Main**

Status unchanged. B&N met with the Engineering Department to go over the final report. The final report has been submitted. Force main along Richmond Road is located. The City will be preparing a letter to Bedford notifying them that the City will be connecting the force main into the City's system.

#### **9. Traffic Engineering Services**

Status unchanged. Contract was extended for an additional two years with GPD until May 2024. Work is on-going as needed.

#### **10. Engineering General Services**

Status unchanged. Contract is signed. Work is on-going as needed.

#### **11. Duneden Avenue Reconstruction (Orchard to Inwood)**

Status unchanged. Survey work is complete and being reviewed by the City. A notice was sent to the residents informing them of the project. Existing sewers are being televised by the Service Department. A notice will be sent to the residents notifying them of the upcoming geotechnical work. Geotechnical work is complete. A quote to complete the plans and specifications from B&N will be presented to the Public Works Committee at their April meeting. Contract with B&N has been signed and work is underway. B&N submitted preliminary plan and profiles for the City to review.

## **12. Harper Road Reconstruction**

Status unchanged. Typical section options were presented to the Public Works Committee for input at their October meeting. Option 1 was selected. B&N was authorized to move forward with the preliminary alignment utilizing Option 1. B&N prepared the horizontal alignment for City review. Comments were emailed back to B&N. B&N has submitted additional alignment information and it is being reviewed by the Engineering Department. A work session was held with B&N on 10/20/2021 in regards to the final layout. B&N prepared waterline potholing locations and have staked them so the Service Department can locate the waterline. A residents meeting was held Wednesday, April 6, 2022 at 6:30 p.m. Updated typical section exhibits for future resident meetings are complete.

## **13. ODOT Noise Barrier Study along US 422**

Status unchanged. Online survey concluded October 31st. IT Department tabulated the results which were reported at the December Public Works Committee meeting. The study results were discussed at the January Public Works Committee meeting. According to ODOT, the City's survey results can be accumulative. A second survey was sent out on March 31st to those property owners within 400 feet of US 422. The Engineering Department has been authorized to submit an application to ODOT to have a noise study completed. The application has been submitted to ODOT. Comments have been received and are being addressed. A revised application was resubmitted to ODOT. Engineering Department requested a status update on the status of the application. ODOT has approved the City's application to have ODOT perform a noise study. The noise study is complete and has been reviewed by ODOT. Comments have been sent to ODOT's consultant and the updated study will be submitted to ODOT in October. ODOT has submitted the noise study to the City for review and comment. Results of the noise study were presented by ODOT to the Public Works Committee at their December 2022 meeting. No noise walls were recommended as a result of the noise study.

## **14. Miles Road Sanitary Sewer Replacement & Pedestrian Accommodations**

Plans have been received and are under review by the City. B&N is staked the right-of-way. City reviewed the sidewalk alignment and sent comments to B&N. Revised plans have been submitted and are being reviewed. Plans have been sent to the City and are being reviewed. A work session was held with B&N on 10/20/2021 to finalize plans. Final plans were sent to the utility companies for review and comment. The Engineering Department is working on right of entries and easements. Easement document was sent to the resident. Comments were received regarding the easement document and were reviewed by the Law Department. Final easement documents have been sent to the resident. Additional comments have been received and will be reviewed by the Law Department.

## **15. Creekside Trail Storm Sewer Replacement**

Contract documents are complete. Project is out for bid. Bid opening is September 29th.

## **16. Churchhill Drive, Brushwood Drive and Blue Grass Oval Reconstruction Project**

Status unchanged. Design proposal from B&N was approved by the City. Contracts have been signed and sent to the consultant. A resident notice was sent out regarding the project. Survey work is underway. Geotechnical work has been completed. A contract modification for B&N to add design work on Liberty Road will be presented to the Public Works Committee at their June meeting. B&N contract modification was approved. Typical sections for Liberty Road are being prepared.

## **17. Fox Hill Drive Sanitary & Storm Replacement Project**

Survey work is complete. A design proposal from B&N was approved. Contract with B&N has been signed and work is underway. Preliminary plans have been submitted for the City to review. Comments were sent back to B&N. Bid documents have been prepared and are being reviewed by the Engineering Department.

## **18. Bainbridge Road Reconstruction (Kruse to Harper)**

Design proposal from B&N was approved by the City. Contracts have been signed and sent to the consultant. Survey work is being scheduled. Geotechnical work has been completed. Preliminary horizontal alignment was discussed with B&N.

## **19. Liberty Road Multi-Use Path, Walk & Retaining Wall - Part 1**

Status unchanged. Survey work is complete. Soil borings are complete. The Geotechnical report has been submitted. B&N is preparing the proposal for the final design.

## **20. Miles Road Waterline Replacement Project**

A preliminary alignment has been prepared. The preliminary alignment has been reviewed with the Village of Orange. A meeting was held with CWD and the City of Solon in regards to the proposed waterline alignment and the City's water agreement with CWD. B&N prepared a preliminary plan showing the new waterline being installed entirely in the Village of Orange. The plan was submitted to CWD. A progress meeting with the Village of Orange was scheduled for January 19th. An agreement has been prepared for the Village of Orange to accept the proposed waterline to be installed on the north side of Miles Road and has been sent to the Village for their review. Review comments were received by the Village and are being reviewed by the City. A revised agreement was sent to the Village of Orange for their review. Additional comments have been received from the Village of Orange. Revised final agreement was sent to the Village of Orange and additional comments were received. Based on comments, B&N is evaluating alternative proposed alignments. The City applied for Ohio Public Works Commission (OPWC) funding. The application deadline was September 14th.

## **21. Solon to Chagrin Falls Trail**

The Metroparks has requested design build team submittals. The submittals have been short listed and a site visit has been scheduled with the design teams for June 30, 2022. Contractor interviews are scheduled for the first week of August. Contract was awarded to Nerone. A project kick-off meeting was held. A meeting with the residents of Aberdeen was held on November 16th. Preliminary Engineering work is underway. Soil borings were completed the week of February 13, 2023. 30% preliminary plans were submitted for review. Preliminary cost estimate was submitted for review. Preliminary cost estimates are being reviewed. Project development agreement with the Metroparks has been amended due to increases in the cost estimate.

## **22. Hawthorne Golf Estates**

Preliminary Plans are being reviewed. NOACA has approved the City's EPA 208 facility planning area (FPA). Revised plans have been submitted to the City and the subdivision was accepted for study by the Planning Commission on June 14, 2022. Preliminary plat was reviewed and approved by the Safety & Public Properties Committee on July 12, 2022. Preliminary plat was reviewed by the Public Works Committee at their August 2022 meeting. The proposed subdivision is currently on the Planning Commission Agenda awaiting addition requested information. Tree clearing started February 15, 2023. The developer has now proposed to connect their sanitary sewer into the City's system. The City submitted an application to NOACA to revise the City's EPA 208 facility planning area (FPA). Construction plans were reviewed and comments were sent to the developer. Plans have been resubmitted and are being reviewed.

## **23. Solon Community Living Project**

Preliminary Plat has been submitted to the City and has been accepted for study. The preliminary plat will be reviewed by the Public Works Committee at their October meeting. The project has been approved by City Council. Construction plans are being reviewed. Construction bonds are being submitted. The City authorized storm sewer work and site grading. Construction is underway. Building permits for buildings 3,4,5,6 and 7 have been approved.

## **24. Brackenbury Storm Sewer**

Status unchanged. Second round of stormwater questionnaires is complete. The City has requested a proposal from B&N to model the storm sewer. A proposal for storm sewer modeling was approved by the Public Works Committee at their October meeting. Contracts have been signed and B&N has been authorized to start work. Existing plan information was sent to B&N. B&N has completed their drainage study and will be meeting with the Engineering Department to go over the results.

## **25. Enterprise Parkway Culvert**

Preliminary plans have been submitted for review. The Engineering Department submitted a grant application to ODOT for municipal bridge funds. Grant application interview was April 4th. City did receive funding. A project scoping meeting with ODOT was held. A contract modification for B&N will be presented to the Public Works Committee at their September meeting to address additional ODOT requirements as a result of the funding. Additional services for B&N were approved.

## **26. Bainbridge Road Relocation-Bicentennial Park**

Survey work is complete. Consultant has submitted preliminary alignments for review. Comments were sent back to the consultant. A new preliminary alignment has been submitted for the City's review. Comments were sent to the consultant and a new preliminary alignment has been submitted to the City. GPD and the City met on August 22nd to review alignment and comments are being addressed. A revised preliminary alignment has been submitted to the City for review.

**27. Secondary Effluent Screw Pump & Trickling Tower Distribution Arm Replacement Project**

Status unchanged. Legislation was approved for B&N to provide professional engineering services. Contract with B&N has been signed and work is underway.

**B. Construction**

<b>2023 Annual Contracts</b>	<b>Status</b>
Concrete Repair	Work is ongoing.
Catch Basin Repair	Work is ongoing.
Street Striping	Fall application is underway.
Preventative Maintenance	Work is substantially complete.
Guardrail Repair	Schedule TBD
Asphalt Repair	Work started on September 20th.
2023 Annual Hydrant Painting	Work is ongoing.
Materials Testing	Work is ongoing as needed.
2023 Annual Sewer Grouting & Manhole Repair	County contract was approved.
Emergency and Miscellaneous Roadway Repair	Work is on-going as needed.
Sanitary and Storm Repair	Work is on-going as needed.
Traffic Signal Maintenance	Work is on-going as needed.
Painting of Miscellaneous Traffic Poles & Equipment	Final Change Order will be presented to the Public Works Committee at their October meeting.
<b>2022 Annual Contracts</b>	<b>Status</b>
Inspection Services	Work is on-going as needed. Contract was extended for 2023.
Concrete Repair	A walk through is complete and a punchlist is being prepared.
Catch Basin	Closeout documents are being reviewed.
Sewer Grouting	Closeout documents were sent to the contractor.
Sanitary and Storm Repair	Final Cost and Quantity Form was sent to the contractor. Closeout documents are being prepared.
Traffic Signal Maintenance	Final Cost and Quantity Form was sent to the contractor.
<b>2021 Annual Contracts</b>	<b>Status</b>
Concrete Repair	Project is substantially complete. Contractor is working on the punchlist.
Sewer Grouting	Closeout documents were sent to the contractor.
<b>2020 Annual Contracts</b>	<b>Status</b>
2020 Annual Sewer Grouting	Closeout documents were sent to the contractor.

**1. Stone Creek Estates**

Status unchanged. The Engineering Department is working with the developer to seal the existing sanitary connections along Cannon Road. The surface course has been applied to the road. Aerials of Davis' pond and the subdivision construction time frame were sent to the Davis'. A permit application to dredge the Davis pond has been submitted. Work on Davis pond is complete.

**2. Neptune Oval Estates**

Status unchanged. Sanitary sewers are installed. Storm sewer installation is substantially complete. The waterline work is complete. The storm sewers on Neptune Drive are complete. Headwalls are under construction. Street subgrade stabilization is complete. Curb work for the street is installed. Asphalt installation is complete. Sewers are being tested. Developer has agreed to allow the City to install sidewalks along Neptune and provided payment to the City for the sidewalks. The work will be done as part of the 2022 Concrete Repair Program. A punch list was prepared and is being prepared by the contractor. Home building permits have been released. Gas line work has been completed. A meeting was held with the developer. An updated punch list was prepared and sent to the developer. Developer installed sidewalks in the subdivision that they are responsible for.

**3. Briarhill Lake Dam Rehabilitation**

Status unchanged. As-builts were prepared and sent to the Ohio Dept. of Natural Resources. Comments on the emergency action plan are being addressed.

**4. Water Reclamation Facility Concrete Repairs - ReBid**

Status unchanged. Work is ongoing.

**5. Fox Hill Storm Sewer Rehabilitation**

Status unchanged. Work started September 14th. The storm sewer rehabilitation work is complete. Retaining wall work is complete. Contractor and the City met on February 23rd to discuss the wall construction. Proposed wall revisions were submitted by the contractor. They were reviewed and sent back to the contractor. City had a meeting with the contractor the week of January 17th and the contractor agreed to quarterly monitoring of the wall to verify if any movement is taking place. Next monitoring date is March of 2024.

**6. Solon Road Reconstruction (Swagelok)**

A walk through was completed on April 26th. A punchlist was sent out. Final Change Order will be presented to the Public Works Committee at their October meeting.

**7. Briarhill Drive Culvert Replacement**

Status unchanged. Work is substantially complete. Parapet walls will be completed in the spring. A meeting was held with the Contractor. The Contractor is scheduled to resume work the week of June 20, 2022. Parapet walls are poured, stained and sealed. Punchlist items are complete. The split rail fence is installed. Bridge railing is installed.

**8. Brookland Avenue Reconstruction**

Status unchanged. Closeout forms are being reviewed.

**9. Clearwater Court Extension to Portz Parkway**

Closeout forms are being reviewed.

**10. US 422/ SOM Center Beautification**

Status unchanged. Foundation is complete. Sign is complete. Lighting is installed. Trees have been installed.

**11. Carrington Court Ph II**

Status unchanged. Subdivision is substantially complete. Punch list items are being completed. Street signs are installed. Post Construction Stormwater Inspection & Maintenance Agreement was approved. Developer needs to record the agreement.

**12. Dominion East Ohio Gas Betterment Project on Solon Road**

Gas line work for the station is complete and restoration is complete. A preconstruction meeting for the phase 4 project was held on Wednesday, January 25, 2023. The project is scheduled to start February 16, 2023. The start of the project was rescheduled to April 14th by Dominion. Gas line work is complete. Restoration work is underway. A walk through is being scheduled.

**13. Miles Road Retaining Wall Replacement**

A pre-construction meeting was held. A wall mock-up is being prepared. The existing retaining wall has been removed. Foundation work is complete. Wall mock-ups are accepted. Concrete pours are complete. Under drain is installed. Concrete Cap and fence is installed. Some fence sections will need to be replaced in the spring. Wall is stained and sealed. Final grading and seeding is complete.

**14. Flanders Drive Sanitary Sewer Extension**

Status unchanged. Project is substantially complete. Maintenance Bond was submitted. A list of deficiencies was emailed to the contractor on 8/23/2023.

**15. North Oval Sanitary & Storm Sewer Replacement**

Status unchanged. Project is substantially complete. A walk through was completed on March 21st. A punch list was sent out. Punch list items are complete.

**16. Aurora Road Reconstruction Phase I Tree Clearing Project**

Status unchanged. Work is substantially complete.

**17. Forest Glen Tree Planting Project**

Status unchanged. Project was awarded to Davey Tree. Tree removal is complete. New trees are installed. Grass restoration will be addressed in the fall.

**18. Miles Road Culvert Replacement C-13**

Project was awarded to Winters Excavating. Shop drawings are being reviewed. The City is pursuing reimbursement of \$15,000.00 from the City's NEORS D Cost Share Account. Construction was scheduled to start June 5th. Project was delayed until June 19th. Project is substantially complete. Punchlist was provided to the contractor. Punchlist work is complete.

**19. Lake Avenue Resurfacing Project**

MOU with the City of Reminderville was approved by City Council. Bid opening was June 14th. Apparent low bidder was Ronyak Paving. Bid results will be presented to the Public Works Committee at their July meeting. Project costs were approved by the City of Solon. A preconstruction meeting was held. Work is complete.

**20. Aurora Road Reconstruction Phase 1**

Authorization to bid was received by ODOT. Project will be bid out soon. Utility relocation work is underway. Project is out for bid. Pre-bid meeting is scheduled for Friday, March 31st. Bids were opened on April 14th. Bids will be presented to the Public Works Committee at a special Committee meeting on May 1st. Bids were rejected and the project is being rebid. Bid opening is June 2nd. Project was awarded to Tri Mor. Contracts are signed. A resident meeting was held on September 11th. Construction started September 25th.

**21. Solon Community Living Project**

Preliminary Plat has been submitted to the City and has been accepted for study. The preliminary plat will be reviewed by the Public Works Committee at their October meeting. The project has been approved by City Council. Construction plans are being reviewed. Construction bonds are being submitted. The City authorized storm sewer work and site grading. Construction is underway. Building permits for buildings 3,4,5,6 and 7 have been approved.

**CAPITAL PROJECT UPDATE**

**A. Under Study and/or Design**

**1. SOM Center Railroad Bridge**

Status unchanged. The Planning Department is scheduling a meeting with the railroad to discuss a future beautification project. Railroad permission is still needed.

**2. Service Garage Lot Pump Station**

Status unchanged. Estimates are being prepared. A meeting with the Illuminating Company was held regarding the electric service for the pump.

**3. City Hall Council Chambers Update**

Status unchanged. Various conceptual drawings are being considered.

**4. Police Station Firing Range**

Status unchanged. Contract modification is being prepared due to firing range location change.

**5. Community Park Preliminary Design**

Mammoth presented preliminary design, including elevations, to City Council on July 12, 2023. Mammoth is addressing comments from City Council. Mammoth's proposal for final design and contract document preparation was approved by City Council on August 23, 2023. Survey work was completed the week of September 22, 2023. Wetland delineation work was also completed.

**B. Construction**

**1. Community Center/Senior Center Parking Lot Expansion**

Status unchanged. Wetland mitigation was approved. The Engineering Department is working on the design. Army Corps & OEPA permits have been granted. The WRLC submitted the conservation easement revisions to the City for our review. The conservation easement revision will be presented to the Safety & Public Properties Committee at their January meeting. City Council authorized the project to be bid. Bid opening is June 2nd. Apparent low bidder is Ohio Paving. A pre-award conference is scheduled for July 5th. Project was awarded to Ohio Paving. Contracts are signed. A pre-construction meeting is being scheduled.

**2. City Hall Front Canopy and Column Restoration**

Repair work is complete. Ceiling still needs to be painted.

C: **Mayor Kraus**

**Macke Bentley, Ward 1 Council Representative**