

Report for the City Manager

Community Services: Engineering

Date: April 10, 2023

The purpose of this document is to summarize the work the City of Dover Engineering Department through **March 31, 2023**.

Service Calls

Since the start of 2023 the Engineering staff has worked closely with Administrative staff to improve the tracking of Service Calls. The Table below shows the total calls year to date and over the past month. There has been an increase in calls this year over past years due to the change in how Admin receives calls to the department. This has shown to result in a quicker response to callers many of whom provide an email address for a quicker response from Engineering staff.

Time Period	Logged Service Calls	Resolved Service Calls
Year to Date (2023)	93	68
Last Month (Month)	49	35

Standard Operating Procedures:

Engineering staff advanced updates to department operating procedures in March with the preliminary development of the following documents:

- 01.01.1.003_ProjectCloseout
- 01.01.1.004_Site Observations
- 01.01.1.005_Request for Proposal Development

CIP Projects

Stormwater Utility: The City's consultants (Stantec and VHB) have worked to advance the proposed outreach plan to 90% through March in preparation for meetings with the general public in late spring (May/June). After completing the initial meetings, Engineering staff will schedule smaller meetings with groups around the City including HOAs and community organizations for the summer and early fall. The Stormwater Utility is on track for an early 2024 presentation to and possible vote by City Council.

Pudding Hill Water Treatment Plant: Contractor continued to work through the winter weather and is on track to complete project in Spring of 2024.

Tollend Landfill: The Dover Landfill Group continued to work with the EPA and their consultants to outline best modeling practices. A group meeting, along with a tour of the landfill was hosted in Dover for the purposes of bringing the EPA project manager up to speed on the overall project.

Dredge Cell Closure: City staff have continued to work with the consulting team at Verdantis Engineering to finalize a conceptual design. Consultants will begin permit drawings and applications in the coming months. The Dredge Cell continues to accept soils from street sweeping activities and will accept some soils from the waterfront development once construction at that site is underway.

Pump Station Evaluation: Engineering staff collected and provided data to the City's consultant, Wright Pierce, on all City owned pump stations for their review and assessment. Community Services Operations staff will work with the consultant to complete testing of the pump stations for approximately 2 weeks in April. The final evaluation report is due by December 31, 2023.

Smith Well Tank: A preconstruction meeting was held on March 8, 2023, and the Contractor began work on 03/13/2023. The Contractor installed erosion control measures, cleared and graded the new water tank site, and dug the pit for the tank foundation. Final completion is scheduled for February 2024.



Figure 1: Foundation prep for the new water storage tank on Smith Well Rd.

Cocheco Outfall Stormwater Master Plan: Engineering staff met with the NHDES and the City's consultant Kleinfelder to review the status of the Stormwater Master plan for the area north of the Broadway culvert that contributes to the Cocheco St. outfall. Engineering will meet again with NHDES and the consultant at the end of April to review Alternatives for the drainage design. A preferred alternative will be selected and will serve as the basis of design for the Oak, Ham, and Ela Neighborhood reconstruction (+/- 100 acres). It is anticipated that the final report will be completed by the end of 2023.

Waterfront Redevelopment: Two bids were received for the Waterfront Infrastructure Project in mid-March. The low bidder was Northeast Earth Mechanics whose bid was reviewed by Engineering department in conjunction with other City staff and the City's consultant. Engineering staff has been working with other Departments to identify what additional financing would be necessary for the project. In addition, Engineering is working to define the scope for the project by evaluating deductions that were identified in the bidding documents. It is anticipated that construction will commence in June provided funding can be secured. Lastly, a full time Waterfront Construction Manager was hired to work with Engineering and the other City Departments to oversee the day-to-day work at the project site. Jamie Stevens, a City employee for the past 22 years in Community Services, was hired in the position and started working on the project full time in early April.



Figure 2: Eastern sidewalk on Chestnut St Bridge with new utility conduit and reinforcing. Sidewalk concrete being poured in the background.

Chestnut Street Bridge: The existing bridge rail has been reset on the west sidewalk. Additional deck repairs have been completed. Utility conduit within the eastern sidewalk have been upgraded in coordination with Eversource and Comcast and the sidewalk is nearing completion. The east sidewalk

expansion joints have been replaced at both ends, new reinforcing has been installed, and concrete has been placed. Membrane installation and paving is scheduled to occur in late April early May which will allow the bridge to reopen by mid-May as scheduled. The project is tracking within the established City Council approved budget.

River St Pump Station: The City’s engineering consultant, Wright Pierce, anticipates 100% documents by the end of April.Fifth Street and Grove Street Reconstruction: Engineering staff received and reviewed the 90% draft plans from the design consultant, Woodard and Curran.

Cocheco St Outfall Replacement: Engineering staff met with Eversource and the City’s consultant in March to discuss the logistics of constructing the outfall. Eversource and their consultant are evaluating the possibility of constructing the outfall concurrently with the soil remediation. The City is waiting on Eversource to provide a cost estimate for this approach prior to advancing the City’s outfall design.

Street Paving Program: The 2023 annual street maintenance bid has been posted (B23065) and bids are due in mid-April. As per usual the final list of streets to be paved may be adjusted

LIST OF STREETS

Preliminary Street List and Repair Method

Street	From	To	Avg. Width (ft)	Approx. Length (ft)	Pavement Thickness (in)	Repair Method
BROOKLINE AVE	WASHINGTON ST	FOURTH ST	20	900	4	Reclaim & 4" repave
CEDARBROOK DR	FOURTH ST	END	26	1090	2	2" overlay (1/2" mix)
FOURTH ST	WASHINGTON ST	BRIDGE	30	2480	1.5	Edge Mill & 1.5" overlay (1/2" mix)
IONA AVE	BROOKLINE AVE	CITY LIMITS	20	330	4	Pave gravel road
KENNEDY CIR	FOURTH ST	END	32	490	2	Edge Mill & 2" overlay (1/2" mix)
MITCHELL CT	CEDARBROOK DR	END	26	260	2	2" overlay (1/2" mix)
CRESCENT AVE	GLENWOOD AV	HORNE ST	32	1220	2	2" overlay (1/2" mix)
GLENCREST AVE	GLENWOOD AV	HORNE ST	32	1090	2	2" overlay (1/2" mix)
GROVE ST	SIXTH ST	ASH ST	32	1700	2	Edge Mill & 2" overlay (1/2" mix)
HELLMAN AVE	HORNE ST	END	14	240	1.5	1.5" overlay (1/2" mix)
HILLCREST DR	HOUGH ST	HILLCREST DR (N)	24	2510	2	2" overlay (1/2" mix)
HORNE ST	SIXTH ST	25' N OF ASH ST (E)	28	1260	1.5	1.5" overlay (1/2" mix)
HOUGH ST	HORNE ST	CENTRAL AV	28	1550	1.25	1.25" shim (1/2" mix)
MAPLE ST	SIXTH ST	350' N OF ASH ST	32	1900	2	Edge Mill & 2" overlay (1/2" mix)
CHESTNUT ST	WASHINGTON ST	BRIDGE (S)	46	460	2	Full-Width Mill & 2" overlay (1/2" mix)
LOCUST ST	CENTRAL AV	SILVER ST	32	2960	3	Full-Width Mill & 3" overlay (1/2" mix)
FAIRFIELD DR	SUNSET DR	HARTSWOOD RD	28	590	4	Reclaim w/ cement injection & 4" repave
SUNSET DR	BELLAMY RD	CATARACT AV (E)	24	1830	4	Reclaim w/ cement injection & 4" repave
OLD GARRISON RD	RABBIT RD	289 OLD GARRISON RD	14	1470	4	Pave gravel road
LEATHERS LN	BACK RIVER RD	KATIE LN	24	1030	4	Reclaim & 4" repave
RED BARN DR	BACK RIVER RD	END	20	560	1.5	1.5" overlay (1/2" mix)

Facilities Projects:

Fish Ladder Park: City staff are working to install area lighting (conduit and poles) as well as curbing to define planting areas. The City staff is completing this work alongside the adjacent property owner, Chinburg properties, who intends to install EV charging spaces in the adjacent parking area while the work is taking place. The RFP is expected to go out mid-April for landscaping to include planting, seating and paver installation in the park area.

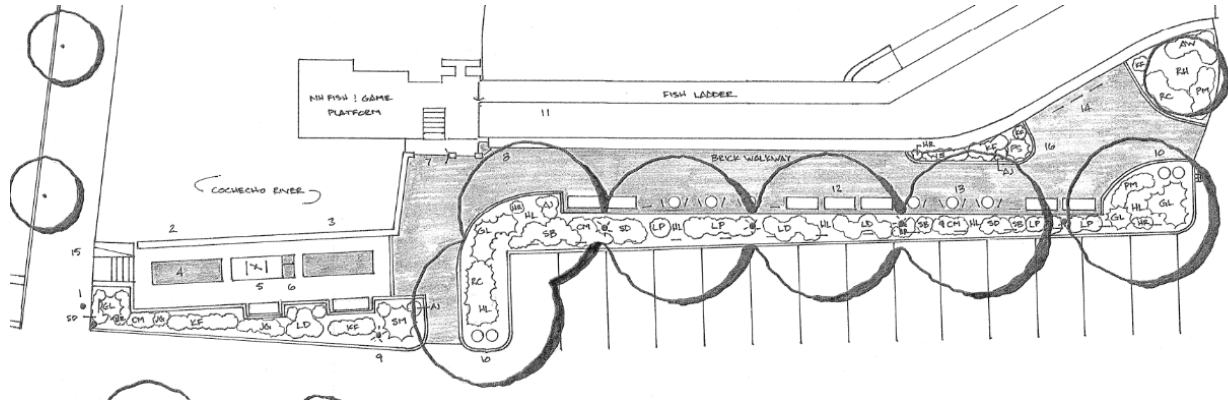


Figure 3: Preliminary Fish Ladder Park Design (final design may be different)

Inspection Services Expansion at Mast Road: The Facilities Project Manager is finalizing, the RFP for the design build contract to expand the office space at the Mast Road Community Services Building. This expansion will be the new home for Inspection Services. New customer service areas as well as office space for the existing community services staff will be included in the building expansion plans.

City Hall Tower Lighting: As the restoration project on the clock tower comes to a close, Careno Construction will be installing exterior lights to help illuminate to body of the tower. These lights will be installed on the four corners of the building and will have the ability to change colors for special circumstances.



Figure 4: Newly restored City Hall clock tower.

Special Projects:

UNH Capstone Project: The UNH project team presented their findings to Community Services staff in early April. They have identified future sampling areas throughout the City including additional groundwater sampling. Community Services will be working with their consultants to study the results and determine what additional sampling may be necessary as we look for future water sources and evaluate recent drinking water standards from the EPA.

Permits:

Permit Summary for March 2023:

Driveway Permits:	2
Utility Licenses:	5
Paving Licenses:	3
Excavation Permits:	7
Obstruction Permits:	2



Figure 5: Porchlight Dr Subdivision

Technical Review Committee: Two projects came to TRC in March that required Engineering review:

- A mixed-use residential development at 30 Grapevine Dr
- An 11-lot subdivision off Gulf Road

In addition, two projects were reviewed in march for an early April TRC:

- Reconstruction/expansion of the COAST bus facility on Knox Marsh road
- A new community recreation building for the White Cliffs of Dover complex on Knox Marsh Rd.

Wastewater Review Summary for March 2023:

Wastewater Connection Permit: 0

Septic Design Reviews: 0

Construction Oversight: Engineering Technician, Jordan Chambers, continues to conduct oversight of approximately 65 private construction projects approved by the Planning Board. Projects that are underway or have been completed include:



Figure 6: Bluebird Storage Facility on Littleworth Rd.

- Bluebird Self Storage (Littleworth Rd.)
- 5-unit Residential Property (Rutland St.)
- Copley Commons (Leathers Ln.)
- Tiny Home Development (Back River Rd.)
- 9 Lot Subdivision (Porchlight Dr.)
- Copper Drive Subdivision
- Unitil John Davis Station (55 Applevale)
- Bellamy Rd. (Sophie Dr.)
- Little Bay Marina (421 Dover Pt Rd)

In addition to the oversight of projects, Engineering facilitated one preconstruction meeting for a proposed Medical Office Building on Durham Rd in March.