



MEMORANDUM

To: Nancy Cox, Development Review Manager
Angela Ruggeri, Senior Planner

From: Don Anderson, P.E., Project Engineer 

Date: April 12, 2012

Subject: CSS-0063, NE 53rd Street Sewer Main Replacement Project

BACKGROUND:

At your request, Public Works is providing you this capital project summary to assist the Planning Department in understanding the scope and timeline of the NE 53rd Street Sewer Main Replacement Project for coordination purposes. I understand the Lake Washington School District (LWSD) has applied for a Process II B land use permit to gain Houghton Community Council and City Council approval of its proposal to expand the BEST School at NE 53rd Street and 108th Avenue NE. Both the Houghton Community Council and City Council have review authority in land use applications of this type within Houghton. Public Works staff in the Transportation Division have already been working with Planning on the issues of existing traffic patterns in the neighborhood, as well as impacts due to the land use proposal. There are several opportunities suggested below for coordinating these two projects located in close proximity.

The city's capital improvement program has included in its planning documents since before 2008 the reconstruction of the sanitary sewer pipe and manhole within NE 53rd Street from 108th Avenue NE to 111th Avenue NE. This portion of the public sewer system has exceeded its lifespan, is undersized, and requires more frequent maintenance by city crews. Additionally, the 25-foot deep manhole at the intersection is also undersized, unsafe, and encounters significant inflow and infiltration problems due to lack of wall integrity. The city's sewer project will have temporary traffic impacts due to construction, currently scheduled to occur this summer.

The sewer project itself does not change the intersection or roadway configuration. The work that will be performed this summer is underground with subsequent surface restoration. However, because of temporary traffic impacts caused during construction and the resulting surface restoration, there is a need for additional coordination with the school district's proposed project.

PROJECT SCOPE, OUTREACH & SCHEDULE:

The scope of the sewer project is to replace approximately 840 linear feet of 6" existing sanitary sewer pipe with 8" diameter pipe along NE 53rd Street (from 108th Avenue NE to 111th Avenue NE), and to rebuild a new sanitary sewer manhole at the location of the existing one at the intersection of NE 53rd Street at 108th Avenue NE. The project has received a SEPA exemption from the Kirkland Planning Department.

Outreach to stakeholders has recently begun with announcements at the March 7th Kirkland Alliance of Neighborhoods meeting, as well as one-on-one meetings with the key stakeholders in the area: Seventh Day Adventist's school, the Kirkland Children's Daycare school, Lake Washington School District, and their project manager for the school proposal, as well as with Northwest University. A fact sheet has been distributed, is available online and is attached to this memo for your use. A city project web page is active with project basics and has been up for about a month. Public Works staff will present sewer project information at the May 2nd Central Houghton Neighborhood Association meeting.

Engineering design is presently at about 30%, with full design expected to be complete by the end of May. Public bidding will occur in June, and staff will request City Council authorize awards to the lowest responsible, responsive bidder, at the second July regular council meeting. Construction will start in late July or early to mid-August, and all construction will be complete by the end of October. As with any project, as we continue through design and planning, the details of project logistics and design re-inform the overall project schedule, and the schedule is updated. Changes to this project schedule could become necessary for various reasons.

EXPECTED TRAFFIC IMPACTS:

The project design team anticipates a complete closure of 108th Avenue NE for the reconstruction of the 25-foot deep sewer manhole. The depth of the manhole, the size of the required excavation, necessary shoring, the limited width of the right-of-way, and the location of existing sidewalks, curbs and water mains constrains the work effort. Expected duration of the closure is two weeks, and this timeline will be re-examined with each iteration of engineering design. Local access and emergency access will be maintained at all times; however, regional traffic on 108th Avenue NE, trucks and transit service will be directed to other routes. Work on the manhole will be required to be the first activity of the contractor and hopefully to be complete prior to the start of school for most of the adjacent schools.

After the manhole work is complete and the road is temporarily patched, 108th Avenue NE will be reopened to traffic. Then construction efforts will work eastward up NE 53rd Street to replace the failing sewer pipe from 108th Avenue NE to 111th Avenue NE. Traffic lanes will be reduced on NE 53rd Street to one lane and flaggers will direct traffic through the work zone. Additionally, traffic heading westbound down 53rd will be directed to use 111th Avenue south to tie into 108th Avenue NE at NE 48th Street. Northwest University campus traffic will use 111th Way NE through its campus.

OPPORTUNITIES FOR COORDINATION:

There are opportunities to assure designs and construction schedules for both projects are coordinated. Additionally, if required mitigations from the school district's land use proposal are impacted by the city's sewer project, or if there are efficiencies in city participation, staff will work with the school district's project design and construction schedules to assure mitigations are met. We anticipate the following coordination efforts at minimum:

- Joint plan review of the LWSD engineering and utility plan by capital project staff and private development engineering staff.
- Plan review of the city's project by Transportation staff. Transportation staff will review the sewer project and assure coordination of mitigation measures, if any, required for the school district's project.
- Sewer project plan review by Planning.
- Direct coordination between the city's sewer project and the school district's project. (Current timeline from the LWSD project manager has their portables placed on site between the outlet of school in June and the end of July.)

- Direct outreach to affected stakeholders once construction scheduling is set.

Please direct any inquiries of the project to me, or to Kari Page.

Attachment: 53rd Street Sewer Project Fact Sheet, March 2012

cc: David Godfrey, P.E., Transportation Engineering Manager
Dave Snider, P.E., Capital Projects Manager
Thang Nguyen, P.E., Transportation Engineer
Kari Page, CIP Public Outreach Specialist
Philip Vartanian, Development Engineer



NE 53rd Street Sewer Main Replacement Project

PROJECT FACT SHEET

March 2012

Planning

Design

Construction

Complete

What: The NE 53rd Street Sewer Main Replacement Project replaces the existing sewer line in NE 53rd Street from the middle of 108th Avenue NE east to the intersection at 111th Avenue NE. The project also replaces the 25-foot deep sewer manhole in 108th Avenue NE. See map on reverse side.

Why: This stretch of sewer pipe is part of an aging system which is undersized and past its expected life span. Existing root intrusion and groundwater inflow into the sewer pipe requires more maintenance. The existing manhole at the intersection of 108th Avenue NE is undersized and doesn't meet current standards. The manhole requires replacement for access and safety reasons.



A typical sewer manhole installation

When: The project is currently in design and expected to be under construction the summer of 2012. The construction phase is anticipated to take up to three months, with anticipated completion in October. Typical hours of construction will be 7 a.m. to 5 p.m., Monday through Friday; some weekend work may help the work be completed more quickly. Many factors, including weather, could influence the project and its construction schedule. Be sure to check the City's web site for possible changes or updates www.kirklandwa.gov (search 53rd Street).

What to expect during construction:

Emergency vehicle access - access for emergency vehicles will be maintained throughout construction.

Traffic control - the city anticipates a road closure of 108th Avenue NE for a limited duration, in order to install the 25-foot deep manhole. Local access will be maintained for neighborhood residents, but regional traffic will be detoured. After 108th Avenue NE is reopened, drivers should expect delays on NE 53rd Street while sewer main line construction continues. Flaggers will direct traffic through the work zone; and signed detours will be in place.

After hours - with the expectation of the manhole installation/road closure of 108th Avenue NE, the contractor is required to backfill and/or cover their work at the end of each day so no open trenches aren't left over night.

Garbage/recycle/yard waste service - garbage/recycling pick-up locations and schedules will remain the same unless notified by the contractor.

Mail service - the contractor is required to maintain regular postal service; mail delivery is not impacted.

How to help: Please obey all signage, detour routes and the traffic control flaggers. They are there for our safety. Plan your trips with extra time to reach your destination.

Easy Access to information: Visit our project web site: go to www.kirklandwa.gov and search 53rd Street. Or, call the construction hotline for updates: (425) 587-3838.

Thank you in advance for your patience and cooperation as we make these important improvements. Please contact us should you have any questions or concerns.

Don Anderson, P.E.

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NE 53rd Street Sewer Main Replacement Project PROJECT FACT SHEET

March 2012



Legend

- School Properties
- Parks
- Sewermain Replacement
- Manhole Reconstruction

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Created by Kari Page



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