

January 8, 2025

Submitted via Email: lyndy.logan@state.mn.us

Ms. Lyndy Logan Minnesota Department of Labor and Industry. 443 Lafayette Road North St. Paul, Minnesota 55155

Re: Request for Minnesota Plumbing Code Variance Xcel Energy St. Paul Service Center TKDA Project No. 0014963.067

Dear Ms. Logan:

TKDA, on behalf of Xcel Energy, is requesting a variance to the Minnesota Plumbing Code for the proposed St. Paul Service Center. This letter is a petition for a variance and contains the information below as required by 2024 Minnesota Statutes 14.056.

 Mr. Leigh Stoakes, Xcel Energy Senior Project Engineer, is the owner requesting the variance. Mr. Stoakes' address is:

> Leigh Stoakes 414 Nicollet Mall, Mezzanine Minneapolis, MN 55401

- TKDA, on behalf of, Xcel Energy is requesting a variance to the 2020 Minnesota Plumbing Code, Section 310.5, Obstruction of Flow. In the case of the site stormwater, the code applies to stormwater surcharging storm sewer pipe. The original design of the storm sewer pipe and stormwater filtration chamber system for this project met the code. No water surcharged any storm pipes for the water quality event (2-inch rainfall). However, during construction of the stormwater chambers the contractor encountered an unforeseen and unexpected condition. The groundwater level is at an elevation higher than expected. The ground water elevation is 3.5 feet above the bottom of the chamber system. It is not feasible to construction the filtration chamber system below the groundwater level. Therefore, the chamber system needs to be revised by raising it above the groundwater level, a vertical distance of 3.75 feet. This revision will result in temporary surcharging pipe upstream of the chamber system to structure CB 166 (reference attached Pipe Surcharge Exhibit) during the water quality event (2-inch rainfall).
- This variance is justified because the surcharged pipe is temporary. The stormwater filtration chamber system will draw down in 48 hours, through filtration, and drain the water in the surcharged pipe. The surcharging is limited to approximately 415 feet of pipes directly upstream of the chamber system. No water will surcharge any pipes at the proposed building in any rain event up to and including the 100-year event. The surcharging is a temporary condition. However, the request for a variance is permanent.
- Xcel Energy has no knowledge of previously requesting a variance from the Department of Labor and Industry (DLI).
- Per discussions with Mike Westemeir at the DLI, he is not aware of any previously approved variances for similar cases.
- No other persons or facilities will be adversely affected if this variance is approved.

Sincerely,

eigh Stoakes

Brent D. Paulsen, PE Civil Group Manager, Facilities Division TKDA

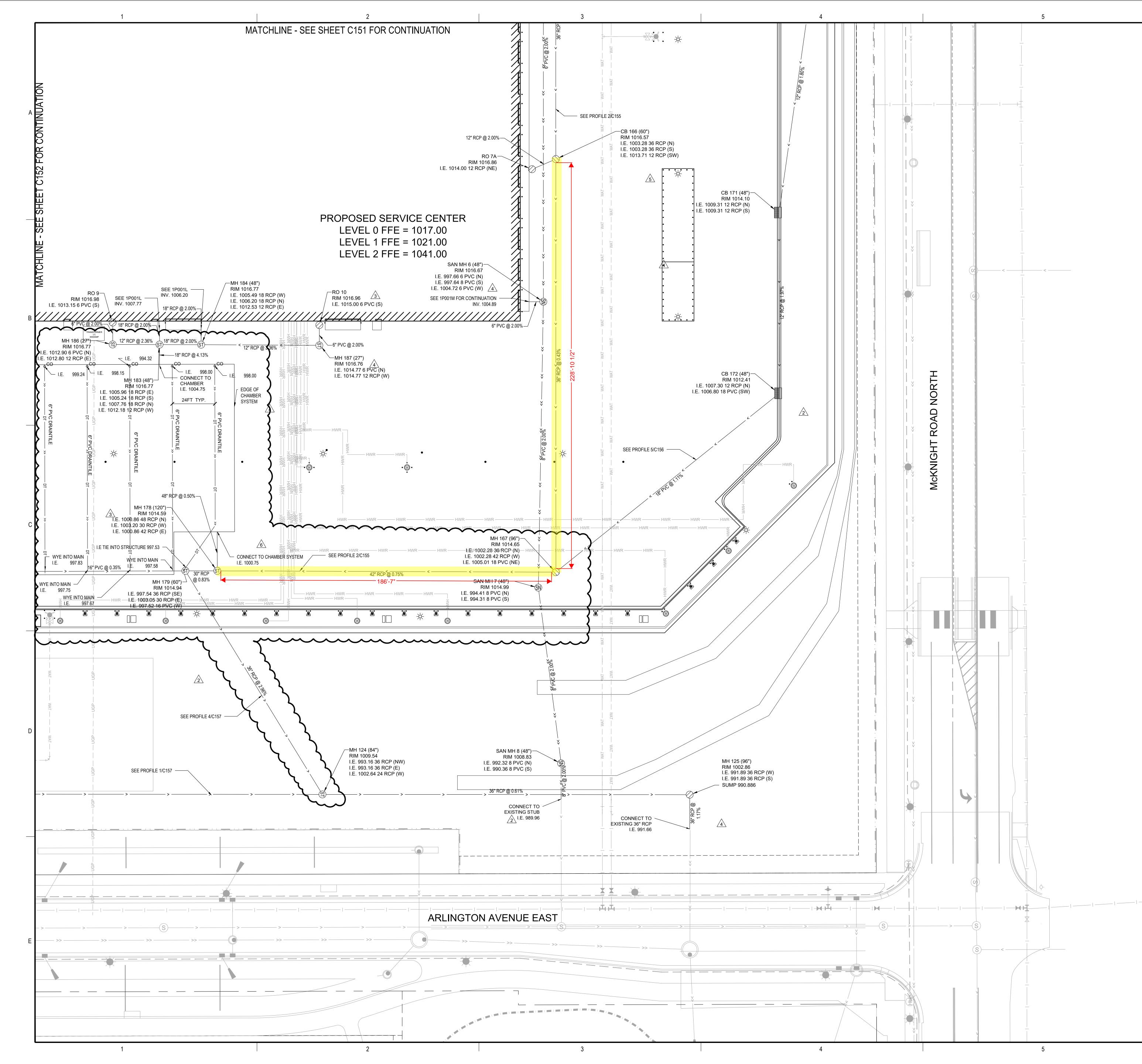
Leigh W. Stoakes, PE Senior Project Engineer Xcel Energy

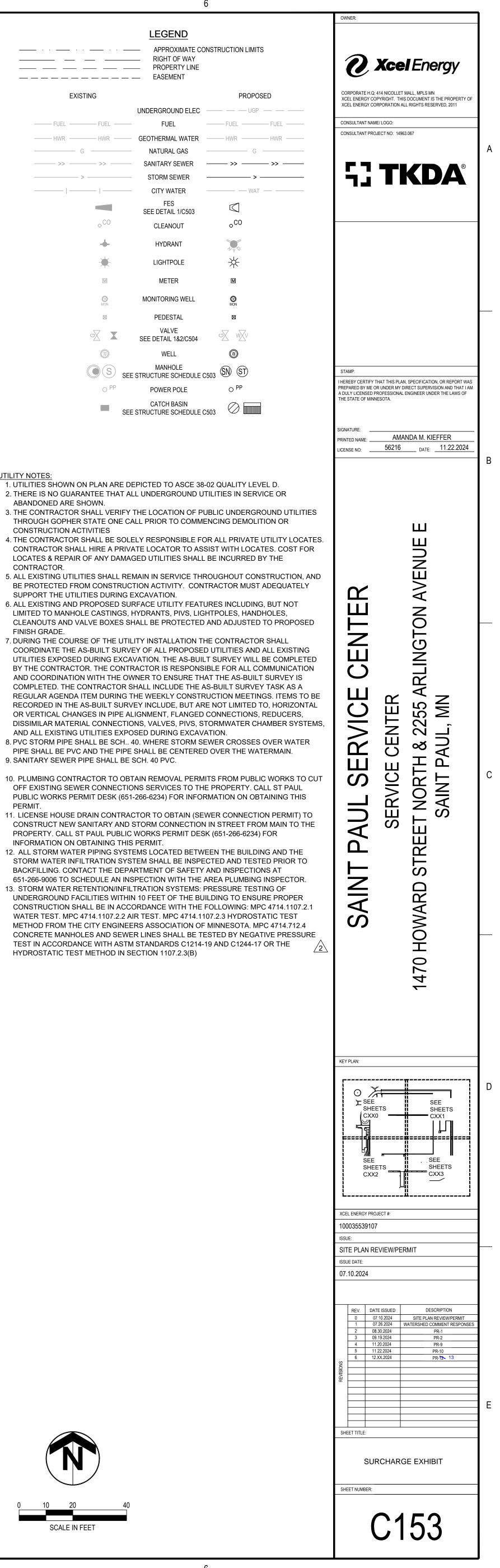
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Attachments: Pipe Surcharge Exhibit

c: Craig Coil – TKDA Andy Koshire – TKDA

BDP:LS:slp





UTILITY NOTES:

- 1. UTILITIES SHOWN ON PLAN ARE DEPICTED TO ASCE 38-02 QUALITY LEVEL D. 2. THERE IS NO GUARANTEE THAT ALL UNDERGROUND UTILITIES IN SERVICE OR ABANDONED ARE SHOWN.
- CONSTRUCTION ACTIVITIES
- LOCATES & REPAIR OF ANY DAMAGED UTILITIES SHALL BE INCURRED BY THE CONTRACTOR.
- SUPPORT THE UTILITIES DURING EXCAVATION.
- 6. ALL EXISTING AND PROPOSED SURFACE UTILITY FEATURES INCLUDING, BUT NOT LIMITED TO MANHOLE CASTINGS, HYDRANTS, PIVS, LIGHTPOLES, HANDHOLES,
- FINISH GRADE. 7. DURING THE COURSE OF THE UTILITY INSTALLATION THE CONTRACTOR SHALL
- AND ALL EXISTING UTILITIES EXPOSED DURING EXCAVATION. PIPE SHALL BE PVC AND THE PIPE SHALL BE CENTERED OVER THE WATERMAIN.
- PFRMIT PROPERTY. CALL ST PAUL PUBLIC WORKS PERMIT DESK (651-266-6234) FOR INFORMATION ON OBTAINING THIS PERMIT.
- 12. ALL STORM WATER PIPING SYSTEMS LOCATED BETWEEN THE BUILDING AND THE BACKFILLING. CONTACT THE DEPARTMENT OF SAFETY AND INSPECTIONS AT

