



## Memorandum

**date:** July 02, 2022

**to:** **Heart of the Valley Metropolitan Sewerage District**  
Dave Casper, Commission President  
Commissioners  
Brian Helminger, District Director (file copy)  
Kevin Skogman, Director of Operations and Maintenance

**cc:** (none)

**from:** **Strategic Municipal Services, Inc.**  
Scott M. Schramm, PE, PLS  
David Schlichting, PE

**re:** **ACTIVITY SUMMARY - STEP 2 - DESIGN**  
**Interceptor System Rehabilitation**  
Heart of the Valley Metropolitan Sewerage District  
Outagamie County, Wisconsin

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### Summary

- A. Pre-Design
- B. Design / Contract Documents
- C. Amended Services
- D. Next Steps

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#### A. Pre-Design

- 1. **Field / System Review**
  - a. manhole / interceptor structures - document conditions 95%  
(including marine access dependent)
    - 1) Kimberly trunk sewer (mh 60 - 68) T B C

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#### B. Design / Contract Documents

- 1. **Agencies** (ongoing communications, coordination and submittal preparation)
  - a. Ahlstrom Munksjö
    - 1) Plant Engineer
    - 2) Wood / Rail Yard Superintendent
    - 3) review Ahlstrom operational schedule related to construction staging / access

- 4) review references related to
  - a) interceptor easements and land ownership
  - b) bypass pumping
  
- 5) review bypass route alternatives
- 6) from ms 5S and 5N (Ahlstrom at Thilmany Road ms 5N)
- 7) review construction site access
- 8) review railroad access and operations
  
- b. Army Corps (ACoE) (Chicago, Detroit and St. Paul Districts)
  - 1) ongoing communications, coordination and permit preparations
  - 2) submit plan drawing and work scope references
  - 3) organize references and prepare for Chapter 30, ACoE 404, ACoE 408 and Land OutGrant permit applications
  
- c. Fox River Navigation System Authority (FRNSA)
  - 1) ongoing communications, coordination and permit preparations with leadership staff
  - 2) review bypass route alternatives and Plan Drawings
  
- d. Kaukauna Utilities (KU)
  - 1) proposed temporary electric service improvements at meter station 3 (Sanitorium), manhole 16 (Vandenberg) and meter station 10 (Wisconsin) for bypass pumping. coordinate purchase order for District with KU
  - 2) proposed construction easement from ms 5S to Elm Street
  
- e. Canadian National / Union Pacific (CN / UP)
  - 1) ongoing communications regarding proposed construction improvements and access
  
- f. Watco / Wisconsin Southern (W / wiSRR / Foxie)
  - 1) ongoing communications regarding proposed construction improvements and bypass route (mh 32A, ms 1 and mh 60 - 68)
  
- g. Warehouse Specialties, Inc. (Prospect, Combined Locks sanitary easement)
  - 1) ongoing communications regarding proposed construction improvements and access mh 32A, ms 1 and mh 60 - 68
  - 2) temporary limited construction easement (TLE)
  
- h. wisDNR
  - 1) environmental staff (sediment / hazmat)
  - 2) Chapter 30
    - a) coordinate river sediment lab testing and technical review with Jim Killian related to nr347 "pre-screening"
    - b) wisDNR confirmed the low level of PCB and metals tests do not require additional special construction or disposal activities. the project is exempt from further nr347 requirements.

- 3) Chapter 31
  - 4) ongoing communications, coordination and permit preparations regarding permit submittals
2. **Communications**
- a. prepare for, communicate with and advise District staff
  - b. prepare for and facilitate working meeting with Commission (06/14)
3. **Communities**
- a. ongoing communications coordinated with District Staff
  - b. Memorandum of Understanding (MoU)
    - 1) prepare template and community example
    - 2) summarize key bullet point topics for the respective communities
    - 3) prepare drafts for the respective communities
  - c. request and review Community utility maps and references
  - d. share working drawing markups for the respective Work areas
4. **Contractor Team**
- a. review capital improvement plan (CIP), unit prices and schedules / sequencing
  - b. ongoing communications with individual disciplines
5. **Wastewater Flows and Bypass Pumping**
- a. estimate bypass pump and forcemain equipment sizes related to power requirements and land / marine routes
  - b. review operational costs (diesel vs electric) and alternative to install additional temporary electric service drops
6. **Public Relations**
- a. ongoing communications
7. **Public Finance** n / a
8. **Budget / Capital Improvement Plan**
- a. ongoing detailed review of the Capital Improvement Plan (CIP) / budget as coordinated with the Contract Documents
9. **Contract Documents**
- a. topographic survey and base maps for work areas
  - b. prepare preliminary **Plan Drawings** for the respective Work Areas and bypass routes
  - c. prepare **Specification** sections that generally include
    - 1) division 00 Contract Documents
    - 2) division 01 General
    - 3) division 02 Site
    - 4) division 03 Concrete

## C. Amended Services

### 1. Cured In Place Pipe Liner (CIPP)

- a. review and summarize system TV and report documentation (GLTS 2007, 08, 09, 2016, 18, 19, 20) related to previous construction
  - 1) pre-CIPP line 2007 - 8
  - 2) post-CIPP install 2007 - 8
  - 3) pre-warranty expiration 2009
  - 4) the following manhole sections were reviewed
    - 3
    - 4 - 5
    - 5 - 5A
    - 5A - 6
    - 6 - 6A
    - 6A - 7
    - 7 - 7A
    - 7A - 8
    - 8 - 9
    - 15 - 16
    - 16 - 17
    - 17 - 18
    - 25 - 26
    - 26 - 27
    - 27 - 29
- b. organize summarize observed defects based on televised documentation related to "areas in question"
- c. communicate and coordinate with 1) Ahlstrom 2) ACoE and 3) Kaukauna related to access for upcoming jet cleaning and televising through woodyard
- d. Visu Sewer (Visu)
  - 1) prepare for, communicate with, meet (11/30), review the work areas and share references with Great Lakes TV Seal (GLTS) and Visu related to televising the "areas in question"
  - 2) prepare and share a scope of work / checklist related to jet cleaning and televising CIPP in the "areas in question" with Visu
  - 3) prepare for, support and observe Visu clean and televise the lower part of the "areas in question" (Thilmay manhole 3 to Fox River manhole 7) (12/06 - 08)
  - 4) review report and TV documentation (December 2021)
- e. prepare for, communicate and meet with the Commission (10/12) and staff (11/30) to share observations and a proposed action plan for the "areas in question"
- f. prepare a checklist of and summary organize, review and summarize District project records / documentation related to the 2008 improvement project including but not limited to:
  - 1) Contract Documents - Plan Drawings and Specifications (Spiniello and Lunda)
  - 2) construction submittals
  - 3) communications



g. prepare for, communicate and participate in a working meet with District Administrator and Commission President (01/20) to review the reference documents, construction process and TV report documentation.

2. **geotechnical investigation**

a. coordinate geotechnical site work with Soils Engineering Services, Inc. (SES), Watco, Ahlstrom, Kaukauna and CN.

3. **Kaukauna pump station MIC (meter station 6)**

a. review City references related to pump station infrastructure.

b. communicate with City Public Works staff.

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D. **Next Steps**

1. Community Memoranda of Understanding (MoU)

a. complete and distribute drafts of MoU with the respective parties

2. review CIPP (2008)

a. field review remaining infrastructure as coordinated with Visu t b d

3. Field Observations - structures and interceptor

a. 7A and 8, no ladders July

b. Kimberly trunk sewer (mh 60 - 68) July

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We welcome the opportunity to further discuss these items at your convenience.

enc: as noted

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