



## MEMORANDUM

TO: Honorable Mayor and City Council, Project Management Team  
c/o Jeff Hulsether, PE – City Engineer

FROM: Scott D. Hedlund, PE, PMP

DATE: June 1, 2016

RE: Brainerd Lakes Regional Airport Utility Extension  
***Bi-Monthly Project Status Update***  
SEH No. BRDMN 131759 20.00

The following is an update on the status of the Construction Phase of the project:

- I. Construction Progress
  - A. Construction started April 11, 2016 in the Lum Park area.
  - B. Horizontal Directional Drilling (HDD) (Project Areas 1 & 2)
    1. Started April 14<sup>th</sup>
    2. Installed 6-inch sewer force main between the new Lum Park lift station and E Street manhole between 8<sup>th</sup> and 9<sup>th</sup> Ave NE.
      - a. **Installed the air release manhole structure at the 13<sup>th</sup> Avenue NE/ I Street intersection.**
      - b. HDD subcontractor struck a marked existing gravity sanitary sewer near the existing Lum Park lift station on 4/14/16; the damage has been repaired at the Contractor's expense.
      - c. Prime contractor struck a marked buried power cable near the intersection of E Street and TH 210 on 4/23/16 while digging a HDD receiving pit causing a brief power outage in the area; BPU crews restored power within an hour and repaired at the Contractor's expense.
    3. Installed 200 foot stretch of 12-inch gravity sanitary sewer under Lum Park Road.
    4. **Installed 6-inch sewer force main between Pine Shores Road and Jordan Road.**
    5. **Installed 12-inch water main between the new booster station site in Lum Park and 13<sup>th</sup> Avenue NE, and along 13<sup>th</sup> Avenue NE between I Street and TH 210.**
      - a. **Connections remain.**
    6. **12-inch gravity sewer installation along the south side of TH 210 between Lum Park and Pine Shores Road is planned to begin in early June by a second HDD crew.**
      - a. **Ongoing dewatering operations.**

- b. **The week of May 23<sup>rd</sup> two property owners on northwest side of TH 210 had their existing shallow sand point wells impacted by the project and the Contractor connected them to a temporary above ground water system served from existing water main on Wonderland Park Road.**
- C. Jack Bore Steel Casings Under TH 210 (Project Area 1)
1. Sewer and water crossings approximately 400 feet east of Lum Park Road
    - a. **Casing and sanitary sewer carrier pipe have been installed.**
    - b. **Casing for water main planned for installation in early June.**
  2. **Water crossing at Ash Ave**
    - a. **Casing has been installed.**
    - b. **Carrier pipe planned to be installed in early June.**
  3. **Water crossing at Wonderland Park Road cul-de-sac**
    - a. **Planned to start after Lum Park water main crossing installed.**
- D. Lum Park lift station/booster station site (Project Area 1)
- a. **Ongoing dewatering operations and trench support system work to complete deep lift station wetwell structure and sanitary sewer installation.**
    - (1) **Contractor has been struggling managing surface water runoff and lowering groundwater level in the excavation area in order to set the lift station wet well structure.**
    - (2) **Contractor has concurrently been struggling with managing and controlling dewatering discharges into Rice Lake.**
      - (a) **SEH has ordered the Contractor to cease dewatering discharges on multiple occasions due to environmental concerns.**
      - (b) **Rice Lake Owners Association contacted the City with concerns with dewatering discharges the week of May 23, 2016.**
      - (c) **An MPCA inspector was onsite the week May 23, 2016 and reviewed the dewatering operations and controls with the Contractor.**
        - (i) **The inspector didn't follow-up with any further action.**
  - b. **Installed lift station structure bottom three sections on May 26, 2016.**
  - c. **Heavy rains overnight May 30, 2016 flooded the open trench.**
    - (1) **A portion of 15<sup>th</sup> Ave NE adjacent to the lift station undermined and will likely remain closed now until all underground work is completed in the Lum Park lift station / booster station site.**
  - d. **It is anticipated to be several more weeks before sewer work in the Lum Park lift station site is complete.**
- E. Open cut sewer and water (Project Area 1)
1. Working on connecting gravity sewer between the Lum Park Road and TH 210 jack bore pipe.
- F. **E Street open cut sewer (Project Area 3)**
1. **Pavement was removed west of 8<sup>th</sup> Ave NE on May 13, 2016.**
  2. **Gravity sewer work began May 16, 2016 starting at League Ave working east.**
    - a. **Sewer has been installed between League Ave and 6<sup>th</sup> Avenue.**
  3. **Precast concrete manhole supplier's delivery truck struck an overhead power cable at the intersection of E Street and 5<sup>th</sup> Avenue on 5/17/16 around 3:30pm while driving with his boom arm up causing a localized power outage in the area; BPU crews restored power by 11:00pm and repaired at the Contractor's expense.**
  4. **Work is planned to last several more weeks with street closures.**

II. Construction Schedule/Staging

- A. The Contractor has conveyed the following construction schedule/staging plans (subject to change):
1. Ongoing deep excavation construction in Lum Park (Areas 1 & 2) for the next several weeks, then ongoing booster and lift station construction over the next few months.
  2. Continue pipe installation in Area 1 along and under TH 210 moving east from Lum Park.
    - a. Jack bores are planned sequentially moving east starting at Lum Park for the next couple of months.
    - b. HDD work will continue to move around along the TH 210 corridor and in Lum Park over the next several weeks.
  3. Continue E Street open cut work between League Avenue and 9<sup>th</sup> Ave (Area 3) for the next several weeks.
  4. Start sewer lining on E Street west of League Avenue (Area 4) in June.
- B. **The consultant team has observed the Contractor's original schedule may be slipping.**
1. **SEH is creating a computer generated schedule from those submitted by the Contractor.**
    - a. **It will be shared with the Contractor and discussed with the project team.**
    - b. **It will help the Contractor monitor and update his overall schedule.**
    - c. **The Contractor will be given the opportunity to advise us of any changes he'd like made to the schedule as the project moves forward.**

III. External Communications

- A. **The next monthly project update construction newsletter to property owners along the project corridor is planned for distribution in early June.**
- B. Project website → <http://www.sehinc.com/online/brd>
1. Has monthly construction project update newsletters, project location map, PMT meeting minutes, City update memos, and basis of design report available for viewing and download.

IV. Overall Schedule

- A. Construction
1. City Council Award Construction Contract: February 22, 2015
  2. Notice To Proceed: March 17, 2016
  3. Preconstruction Conference: April 5, 2016
  4. Started Construction: April 11, 2016
  5. Weekly Construction Progress Meetings: Tuesdays at 9:30am, Lum Park (subject to change)
  6. Contract Construction Substantial Completion Date: October 21, 2016
  7. Contract Construction Final Completion Date: December 14, 2016

V. Budget Status

- A. Construction Contract (low bid Tom's Backhoe Service): \$8,591,721.58
1. Applications For Payment
    - a. Through 4/30/16:
      - (1) Work Certified: \$482,972.08
      - (2) Retainage (5%): \$24,148.60
      - (3) Paid: \$458,823.48 (City Council approved on 5/16/16)
    - b. **Through 5/31/16:**
      - (1) **The next payment is planned for City Council approval on 6/20/16.**
      - (2) **Dollar amount still being determined at time this memo was written.**

2. Change Orders:
  - a. Change Order No. 1 for \$9,750 for adding a necessary sewer force main air release manhole at the intersection of 13<sup>th</sup> Avenue NE and I Street was approved on 5/16/16.
- B. Consultant budget (construction):
  1. Approved construction services contract: \$623,092.00.
  2. Invoiced to date: \$73,308.87.
  3. Scope changes:
    - a. The intensity of construction observation needed to date is higher than assumed for the consultant contract; contractor has been working at times 6 days a week during daylight hours and his schedule appears to be slipping; consultant contract is hourly and will continue to be monitored; a fee amendment request would be brought forward in the future if at such time overall construction observation hours are projected to be exceeded.

Attachment – project location map  
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# BRAINERD AIRPORT UTILITY EXTENSION BRAINERD, MINNESOTA PUBLIC IMPROVEMENT NUMBER 14-15



Know what's below.  
Call before you dig.



## CONSTRUCTION DOCUMENTS

### PROJECT LOCATION



BRAINERD, MINNESOTA

### CITY OFFICIALS

MAYOR \_\_\_\_\_ ED MENK  
 CITY ADMINISTRATOR \_\_\_\_\_ JIM THOREEN  
 CITY COUNCIL \_\_\_\_\_ SUE HILGART  
 \_\_\_\_\_ MARY KOEP  
 \_\_\_\_\_ CHIP BORKENHAGEN  
 \_\_\_\_\_ DAVID PRITSCHET  
 \_\_\_\_\_ KELLY BEVANS  
 \_\_\_\_\_ GARY SCHEELER  
 \_\_\_\_\_ GABE JOHNSON  
 CITY ENGINEER \_\_\_\_\_ JEFF HULSETHNER  
 PUBLIC UTILITIES \_\_\_\_\_ SCOTT MAGNUSON

APPROVED: *Jeffrey M. Hansen* 12-21-15  
 CITY ENGINEER DATE

*Scott D. Hedlund* 12-21-15  
 PROJECT MANAGER DATE

*Dawn S. Due* 12-21-15  
 PROJECT ENGINEER DATE



NOTE:  
 THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL 0. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/A/SC/E 38-92 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."  
 THE CONTRACTOR SHALL CALL THE GOPHER STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.

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PLAN REVISION SUMMARY			
1	JLS	01/12/16	ADDENDUM 1 - COMPLETE SET
2	BDY	03/28/16	ADDENDUM 2 - C63,01P6,01P8,01E16,04C2
3	BDY	03/28/16	ADDENDUM 3 - C63,004,001,01E13,01E15,001,01C3,01C8,01C13,01C19,04C2
4	BDY	03/28/16	ADDRESS MOH PLAN REVIEW COMMENTS - 01C5,01C11,01C21,01P2,01P3,02C4,02C5

