



## MEMORANDUM

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

FROM: Scott D. Hedlund, PE, PMP

DATE: July 16, 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)
    1. Area 1
      - a. 12-inch gravity sanitary sewer under Lum Park Road has been installed.
      - b. 6-inch sewer force main between Pine Shores Road and Jordan Road has been installed.
      - c. 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 has been installed.
      - d. 16-inch water main under Lum Park Road has been installed.
      - e. 16-inch water main along TH 210 between Pine Shores Rd and approximately 600 feet east (Station 258+50) has been installed.
      - f. 12-inch gravity sewer along TH 210 between Lum Park and Ash Ave (between manholes SS4 and SS7) has been installed.  
(1) Contractor is addressing grade issues.
      - g. **16-inch water main along TH 210 between manholes SS4 and SS10 has been installed.**  
(1) **Connections and testing remain.**
      - h. **12-inch gravity sewer between manholes SS7 and SS10**  
(1) **Contractor is in the process of drilling the pilot hole.**
      - i. **Ongoing grade verification and testing.**
    2. Area 2
      - a. 6-inch sewer force main pipe has been installed.

- 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.**
      - (1) **A change order for extra time to complete the pilot hole due to boulder obstructions is planned for approval consideration at a future City Council meeting.**
    - b. **Casing for water main started, hit boulder obstruction 50 feet on 6/10/16.**
      - (1) **Change Order No. 3 changing to hammer installation method is planned for City Council approval on 7/18/16.**
  - 2. Water crossing at Ash Ave
    - a. Casing and carrier pipe have been installed.
  - 3. Water crossing at Wonderland Park Road cul-de-sac
    - a. Casing and carrier have been installed.
  - 4. **Sewer and water crossing at Pine Shores Road**
    - a. **Planned to start in end of July.**
    - b. **Work here will involve temporarily closing the Pine Shores Road/ TH 210 intersection for 1 – 2 weeks.**
      - (1) **There will be a posted detour.**
      - (2) **Notification will be mailed to affected property owners.**
  - 5. **Sewer and water crossings for future stubs between Pine Shores Road and Jordan Road, and sewer and water crossings at Jordan Road**
    - a. **Planned to start in August after Pine Shores Road.**
- D. Open cut sewer and water (Project Area 1)
  - 1. 12" sanitary and manholes from the Lum Park lift station to manhole SS 4 have been installed and connected.
    - a. Verification of grades and testing remains.
  - 2. 16" water main between the north side of Lum Park Road and TH 210 has been installed up to the jack bore pit.
  - 3. Backfilling and restoration of pipe trenches between Lum Park Road and TH 210 north jack bore pit started.
  - 4. **Ongoing open cut sewer and water pipe, manholes, valves, hydrants, and tie-ins; and testing.**
- E. E Street open cut sewer (Project Area 3)
  - 1. All planned sewer has been installed.
    - a. Testing and televising remains.
  - 2. First lift of bituminous surfacing has been paved east of 8<sup>th</sup> Avenue NE
  - 3. **First lift of bituminous surfacing west of 8<sup>th</sup> Avenue NE has been paved.**
  - 4. **E Street final paving is planned for completion the week of July 18<sup>th</sup>.**
- F. Lum Park lift station/booster station site (Project Area 1)
  - 1. **Ongoing dewatering operations to complete water main pipe installation and connections and booster station foundation.**
  - 2. **SS1 and Lift Station Wetwell and Valve Manhole structures are installed and associated sewer pipes are connected.**
  - 3. **Starting to work on water main within the site the week of July 11<sup>th</sup>.**
  - 4. **Soil corrections and footing work for the booster station building is planned to be completed by end of July.**
- G. Jordan Road lift station
  - 1. Planned for July/August start.
- H. Dewatering
  - 1. Ongoing dewatering operations at various locations.

2. Two property owners on northwest side of TH 210, east of Wonderland Park Road continue to be connected to a temporary above ground water system served from existing water main on Wonderland Park Road.
- I. **Cured In-Place Pipe (CIPP) work (Project Area 4) on E Street west from League Ave NE**
  1. **Lining of the existing sanitary sewer started 6/30/16 on E Street starting at the manhole at League Avenue NE working west toward the Evergreen interceptor sewer.**
  2. **Lining work is complete between League Avenue NE and 1<sup>st</sup> Avenue NE.**
  3. **Lining work west of 1<sup>st</sup> Ave NE is planned resume in August.**
- II. Construction Schedule/Staging
  - A. The Contractor has conveyed the following general construction schedule/staging plans (subject to change):
    1. **Complete most of the work in the Lum Park area outside of the lift station site in August.**
    2. Ongoing booster and lift station site construction in Lum Park.
    3. Continue pipe installation in Area 1 along and under TH 210 generally moving east from Lum Park.
      - a. Jack bores are planned to continue through September.
      - b. HDD work is planned to continue through August.
      - c. Ongoing open cut manhole, pipe, and tie-in work.
    4. Area 2 work is near substantially complete, testing remains.
    5. **Complete (Area 3) E Street final paving and turf restoration by the end of July.**
    6. **Complete sewer lining on E Street corridor west of 1st Avenue NE (Area 4) in August.**
  - B. To help address the consultant team's observations that the Contractor's original schedule may be slipping, SEH created a computer generated sequencing and scheduling plan from the first two schedules submitted by the Contractor, shared them with the Contractor, and discussed with the project team.
    1. With Application for Payment No. 2, SEH implemented the changes/updates the Contractor wanted into an updated sequencing and scheduling plan dated June 13, 2016 and distributed to the project team.
      - a. **This has been the process each subsequent month as the project has moved forward.**
- III. External Communications
  - A. **The latest monthly project update construction newsletter to property owners along the project corridor was mailed out July 15<sup>th</sup>.**
  - B. A separate mailing to Area 4 property owners only went out June 24<sup>th</sup> advising that sewer lining work on E Street is planned to start in the next few weeks.
  - C. **A separate mailing to Area 1 property owners west of TH 210 off the Pine Shores Road/Jordan Road loop was mailed out July 15, 2016 advising that the Pine Shores Road access to TH 210 would be closed for 7 – 10 days starting on or around July 18<sup>th</sup> to facilitate utility construction, and that there will be a posted detour and guide signs.**
  - D. 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. **Work Through 6/30/16:**
      - (1) **Work Certified (including Materials Stored On-Site): \$2,201,159.69**
      - (2) **Retainage (5%): \$110,057.98**
      - (3) **Total Amount Eligible To Be Paid To Date: \$2,091,101.71**
    - b. **Payment #3 for \$790,203.12 is planned for approval by the City Council on 7/18/16.**
  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. **Change Order No. 2 for -\$775.00 for combination of adding casing lengths in certain areas to avoid existing private utilities and a credit for reducing casing diameters for all 8-inch water main carrier pipe was approved by the city council on 7/5/16.**
    - c. **Change Order No. 3 for \$88,037.50 for addressing a boulder obstruction in the Lum Park / TH 210 jack bore steel casing installation by switching installation methods is planned for approval by the city council on 7/18/16.**
    - d. **Change Order No. 4 for \$27,490.00 for removal of buried concrete rubble along TH 210 water main trench through Anderson Brothers Construction's yard is planned for approval by the city council on 7/18/16.**
    - e. **Change Order No. 5 for -\$260,792.93 for eliminating the gravity sewer between manhole SS#10 and Pine Shores Road due to buried concrete rubble making directional drilling infeasible is planned for approval by the city council on 7/18/16.**
    - f. **A future change order related to extra time spent by the jack/bore subcontractor at the jack bore steel casing installations addressing boulders in casing paths at Lum Park crossings is anticipated.**
- B. Consultant budget (construction):
  1. Approved construction services contract: \$623,092.00.
  2. **Invoiced to date: \$260,867.72.**
  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

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



Know what's below.  
Call before you dig.



#### CONSTRUCTION DOCUMENTS

#### PROJECT LOCATION



BRAINERD, MINNESOTA

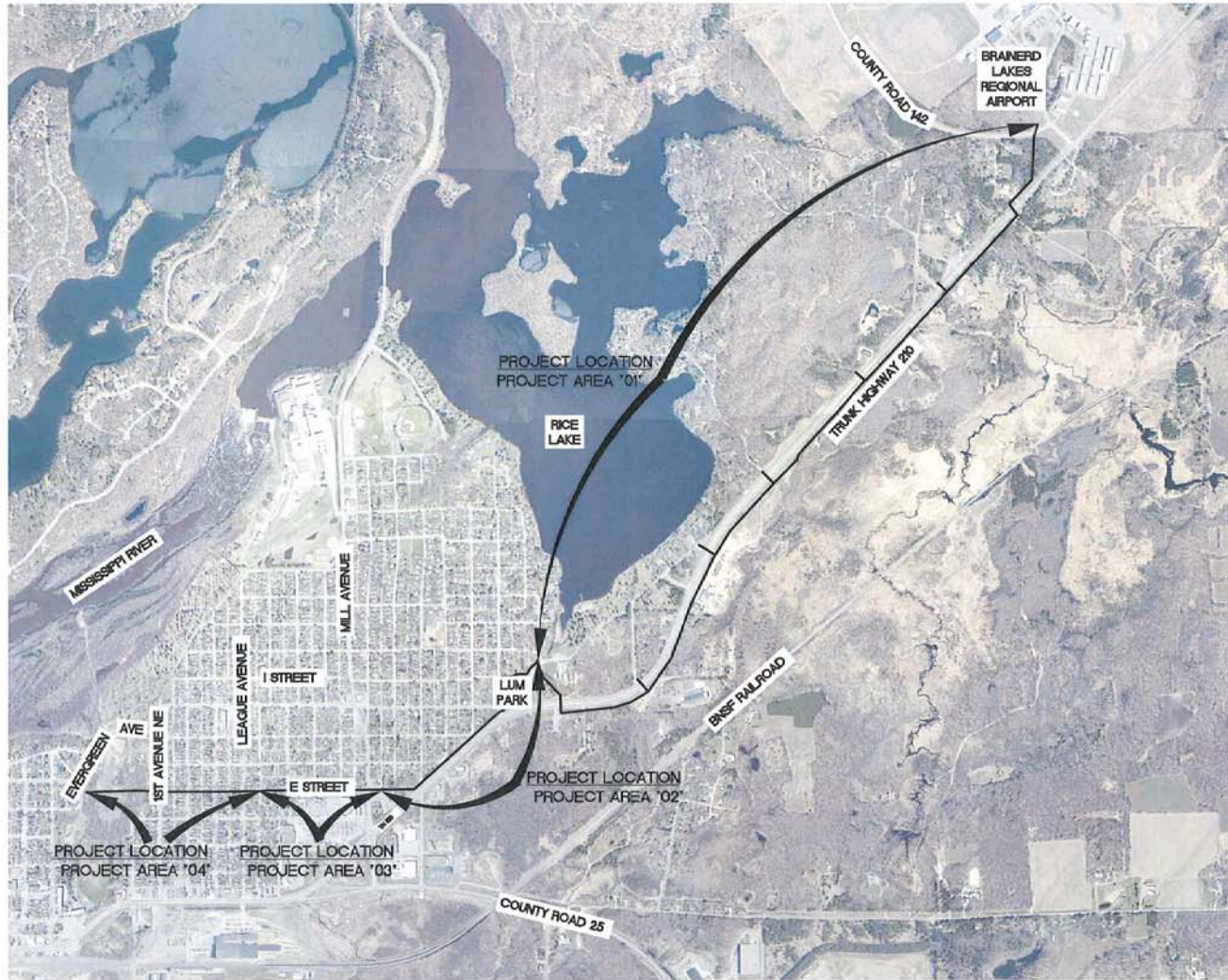
#### CITY OFFICIALS

MAYOR \_\_\_\_\_ ED MEWK  
 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. Anderson* 12-21-15  
 CITY ENGINEER DATE

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

*Don W. Dine* 12-21-15  
 PROJECT ENGINEER DATE



NOTE:  
 THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 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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