ADDENDUM #2
BID No. 2017-0266
PROJECT No. 1532
2017 LARGE DIAMETER GAS MAIN INSTALLATION PROJECTS

NOTICE

This addendum serves to notify all bidders of the following changes to the solicitation documents and is hereby made a part of the Contract Documents.

DRAWINGS

1. GENERAL PLAN SET

   CLARIFICATION that private sanitary sewer laterals are not depicted on the plan & profile sheets for the 48th Avenue East and 4th Street gas main projects. The City will locate sanitary wye locations and determine when potholing for the utility (payable as a bid item) is necessary.

2. SHEET 1 – TITLE SHEET

   CLARIFICATION to correct the sheet index. Note that there is no sheet 47. The sheet index should read as follows:

   "1 TITLE SHEET  
   2 SEQ  
   3 TRAFFIC CONTROL NOTES  
   4-5 SWPPP  
   6 EROSION CONTROL DETAILS  
   7 STANDARD GAS DETAILS  
   8 CASING DETAIL AND STREET CROSS SECTIONS  
   9 STANDARD STREET DETAILS  
   10-12 PIPE BURSTING 6" 48TH TRAFFIC CONTROL  
   13-15 PIPE BURSTING 6" 48TH EROSION CONTROL  
   16-25 PIPE BURSTING 6" 48TH PLAN & PROFILE  
   26-29 8" MDPE ON 4TH ST TRAFFIC CONTROL  
   30-33 8" MDPE ON 4TH ST EROSION CONTROL  
   34-40 8" MDPE ON 4TH ST PLAN & PROFILE  
   41-43 12" HDPE ON LONDON RD. TRAFFIC CONTROL  
   44-46 12" HDPE ON LONDON RD. EROSION CONTROL  
   47 **SHEET 46 IS OMITED**  
   48-53 12" HDPE ON LONDON RD. PLAN & PROFILES  
   54 LONDON ROAD CONNECTION DETAIL  
   55-57 48TH AVE E. CONNECTION PROCEDURES  
   58-63 4TH STREET CONNECTION PROCEDURES  
   ”
3. SHEET 8

**CLARIFICATION** that “rubbilized concrete” in the Superior St. Typical Section detail represents the existing conditions, this material shall be replaced as “8” base concrete layer”.

4. SHEET 55 - 63

**ADD** the attached plan sheets 55 through 63 in their entirety which explain the procedures for construction of the 48th Ave East project and the 4th Street project.

**SPECIFICATIONS**

**ADD** the following paragraph to SP-21 MATERIALS AND WORK TO BE FURNISHED BY THE PUBLIC WORKS & UTILITIES DEPARTMENT:

“F. The Department will furnish 2” steel blind flanges for the Contractor to temporarily install on closed steel valves during the abandonment procedures of the 48th Avenue East Adaly-A pipe. Once the valves are removed the Contractor will return the blind flange materials to the City.

**ADD** the following section SP-29 EROSION CONTROL SUPERVISOR to the project special provisions:

**“SP-29 EROSION CONTROL SUPERVISOR**

Scope of the Erosion Control Supervisor bid item shall include procurement and implementation of the NPDES Construction Storm Water permit. Procurement includes completing the online application for the NPDES permit and payment of the permit fees. A copy of the permit, or a permit confirmation, shall be provided to the City of Duluth once the permit is obtained.

During the project, the erosion control practices shall be installed, inspected, and maintained under the supervision of an individual whom has completed the classroom training and obtained a Certified SWPPP Installer status in the state of Minnesota. Weekly and routine inspections based upon rain events, of the erosion control BMP’s and construction site is required as part of the permit implementation. This supervisor shall be responsible to complete inspection reports and maintain them at a designated onsite location. Copies of the inspections reports must be submitted to the City as PDF documents at the end of the project or as requested during the project.

Upon completion of the project, the final 1/3 of the bid item payment shall be released when the Contractor files the permit Notice of Termination form jointly with the City.
END OF ADDENDUM

Please acknowledge receipt of this Addendum by initialing and dating Addendum # below the bid form on the invitation for bids.

 Posted Date. March 28, 2017
**PROCEDURE #1**

**CONT.**

**C.O.D.**

**ISOLATE 6" SDR 21 ADAY-A PIPE IN 48TH AVE E.**

1. **CONFIRM THAT ALL ACTIVE SERVICES HAVE BEEN REMOVED FROM THE 6" ADAY-A PIPE AND HAVE BEEN RECONNECTED TO OTHER MAINS.**

2. **ISOLATE THE 6" ADAY-A PIPE BY CLOSING THE FOLLOWING VALVES (22 TOTAL):**
   - G09692, G06682, G06684, G07826, G07824, G07486, G07386, G07458, G07476, G07970, G07488, G07484, G07460, G07972, G07974, G07988, G07850, G07968, G07474, G07844, G07832, G06686
### Procedure #2: Gas to Air Purge 6" SDR 21 ADALY-A Pipe in 48th Ave E. (Part 1)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Squeeze 3&quot; MDPE main on Glenwood approximately 8' east and 8' south of Valve G06682</td>
</tr>
<tr>
<td>2</td>
<td>Cut 3&quot; MDPE main, install an MDPE cap on the squeeze side</td>
</tr>
<tr>
<td>3</td>
<td>Connect an air mover/purge stack to Valve G06682 and depressurize the isolated segment of 6&quot; ADALY-A pipe by opening Valve G06682</td>
</tr>
</tbody>
</table>

### Procedure #3: Gas to Air Purge 6" SDR 21 ADALY-A Pipe in 48th Ave E. (Part 2)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Unbolt the flanged transition to the transition on the north side of Valve G06686 and cut the ADALY-A pipe to remove the transition</td>
</tr>
<tr>
<td>2</td>
<td>Purge gas to air through the open pipe end near Valve G06686 to the air mover attached to Valve G06682</td>
</tr>
<tr>
<td>3</td>
<td>Install temporary blind flange on Valve G06686</td>
</tr>
<tr>
<td>4</td>
<td>Continue drawing air through the main, purging at Glenwood Street until directed to stop</td>
</tr>
</tbody>
</table>

### Procedure #4: Remove All Branch Main Connections and Temporary Cap

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>At each 2&quot; branch main and steel valve, unbolt the flanged transition of the closed valve and the 6&quot; ADALY-A main</td>
</tr>
<tr>
<td>2</td>
<td>Cut ADALY-A pipe in two locations and remove segment of 6&quot; ADALY-A pipe including one or multiple branch saddle connections to the unbolted transitions</td>
</tr>
<tr>
<td>3</td>
<td>Install blind flange (supplied by C.O.D.) to the disconnected face of each steel valve</td>
</tr>
<tr>
<td>4</td>
<td>Stop purging gas to air in the 6&quot; ADALY-A pipe and remove air moving equipment once the final branch main connection is removed at Glenwood Street</td>
</tr>
</tbody>
</table>
### Procedure #5

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CUT AND REMOVE SEGMENT OF 6&quot; MDPE PIPE EAST OF VALVE G07832, INSTALL A STUB OF NEW 6&quot; MDPE WITH CAP INTO THE VALVE</td>
</tr>
<tr>
<td>2</td>
<td>CLEAN AND INSPECT THE EXISTING CASING PER THE PROJECT SPECIAL PROVISIONS</td>
</tr>
<tr>
<td>3</td>
<td>INSTALL NEW 6&quot; MDPE FROM VALVE G06686 TO JUST NORTH OF THE BRANCH MAIN CONNECTION ON GLENWOOD STREET</td>
</tr>
<tr>
<td>4</td>
<td>INSTALL NEW 6&quot; FLANGED TRANSITION PROVIDED BY DEPARTMENT TO THE RECENTLY INSERTED 6&quot; MDPE PIPE IN SUPERIOR STREET</td>
</tr>
<tr>
<td>5</td>
<td>AIR TEST AND PIG THIS SEGMENT OF 6&quot; MDPE FROM VALVE G06686 TO GLENWOOD STREET</td>
</tr>
<tr>
<td>6</td>
<td>INSTALL 2&quot; H.V. TEE WITH A 2&quot; PE VALVE, A STUB OF 2&quot; MDPE AND CAP AT THE GLADSTONE STREET &amp; 48TH AVE. E. BRANCH MAIN CONNECTION, TEST 2&quot; CONNECTION PRIOR TO TAPPING THE 6&quot; MAIN</td>
</tr>
<tr>
<td>7</td>
<td>SQUEEZE 2&quot; MAIN IN SUPERIOR ST EAST OF EX. VALVE (G07832)</td>
</tr>
<tr>
<td>8</td>
<td>CONNECT TO THE BRANCH MAIN AT GLADSTONE STREET AND SUPERIOR STREET, TAP THE NEW 2&quot; H.V. TEE, OPEN NEW 2&quot; VALVE, AND SOAP TEST CONNECTION</td>
</tr>
<tr>
<td>9</td>
<td>SOAP TEST NEW CONNECTIONS</td>
</tr>
</tbody>
</table>

### Procedure #6

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>REMOVE 6&quot; ADAYU-A FROM THE EXISTING CASING UNDER SUPERIOR STREET</td>
</tr>
<tr>
<td>2</td>
<td>INSTALL, PIG, AND TEST NEW 6&quot; MDPE GAS MAIN FROM GLADSTONE STREET TO GLENWOOD STREET INCLUDING 90 DEGREE BEND AND CONNECTION STUB OF PIPE</td>
</tr>
<tr>
<td>3</td>
<td>ISOLATE THE ACTIVE 6&quot; MDPE GAS MAIN AT GLADSTONE STREET BY CLOSING VALVES G06686 AND THE NEW 2&quot; PE BRANCH MAIN VALVES (3 VALVES TOTAL, COORDINATE SHUTDOWN WITH BANK)</td>
</tr>
<tr>
<td>4</td>
<td>REMOVE END CAP AND CONNECT 48TH AVENUE EAST MAIN SEGMENTS AT GLADSTONE STREET</td>
</tr>
<tr>
<td>5</td>
<td>INSTALL, TAP, AND TIE 2&quot; H.V. TEE WITH A 2&quot; REDUCER, 2&quot; PE VALVE, AND A STUB OF 3&quot; MDPE ALIGNED WITH THE BRANCH MAIN ON THE NORTH SIDE OF GLENWOOD STREET TO THE EAST</td>
</tr>
<tr>
<td>6</td>
<td>OPEN VALVE G06686 AND PURGE AIR TO GAS THROUGH THE NEW 2&quot; H.V. TEE AND VALVE AT GLADSTONE STREET AND 48TH AVE. E., CLOSE THE NEW 2&quot; VALVE</td>
</tr>
<tr>
<td>7</td>
<td>SQUEEZE 2&quot; MDPE PIPE IN GLADSTONE STREET AND 48TH-AVE. E., REMOVE VALVE G06686, AND RECONNECT TO THE NEW 2&quot; MDPE PIPE, REMOVE 6&quot; SQUEEZE (ANY 2&quot; MDPE USED IN THIS STEP SHALL BE PRETESTED)</td>
</tr>
<tr>
<td>8</td>
<td>SQUEEZE 2&quot; MDPE PIPE IN SUPERIOR ST EAST OF EX. VALVE (G07832)</td>
</tr>
<tr>
<td>9</td>
<td>INSTALL THE BRANCH MAIN AT GLADSTONE STREET AND SUPERIOR STREET, TAP THE NEW 2&quot; H.V. TEE, OPEN NEW 2&quot; VALVE, AND SOAP TEST CONNECTION</td>
</tr>
<tr>
<td>10</td>
<td>SOAP TEST NEW CONNECTIONS</td>
</tr>
</tbody>
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### Procedure #7

<table>
<thead>
<tr>
<th>Step</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>INSTALL, PIG, AND TEST NEW 6&quot; MDPE GAS MAIN FROM GLADSTONE STREET TO GLENWOOD STREET</td>
</tr>
<tr>
<td>2</td>
<td>INSTALL, PIG, AND TEST NEW 6&quot; MDPE GAS MAIN FROM GLADSTONE STREET TO GLENWOOD STREET INCLUDING 90 DEGREE BEND AND CONNECTION STUB OF PIPE</td>
</tr>
<tr>
<td>3</td>
<td>ISOLATE THE ACTIVE 6&quot; MDPE GAS MAIN AT GLADSTONE STREET BY CLOSING VALVES G06686 AND THE NEW 2&quot; PE BRANCH MAIN VALVES (3 VALVES TOTAL, COORDINATE SHUTDOWN WITH BANK)</td>
</tr>
<tr>
<td>4</td>
<td>REMOVE END CAP AND CONNECT 48TH AVENUE EAST MAIN SEGMENTS AT GLADSTONE STREET</td>
</tr>
<tr>
<td>5</td>
<td>INSTALL, TAP, AND TIE 2&quot; H.V. TEE WITH A 2&quot; REDUCER, 2&quot; PE VALVE, AND A STUB OF 3&quot; MDPE ALIGNED WITH THE BRANCH MAIN ON THE NORTH SIDE OF GLENWOOD STREET TO THE EAST</td>
</tr>
<tr>
<td>6</td>
<td>OPEN VALVE G06686 AND PURGE AIR TO GAS THROUGH THE NEW 2&quot; H.V. TEE AND VALVE AT GLADSTONE STREET AND 48TH AVE. E., CLOSE THE NEW 2&quot; VALVE</td>
</tr>
<tr>
<td>7</td>
<td>SQUEEZE 2&quot; MDPE PIPE IN GLADSTONE STREET AND 48TH-AVE. E., REMOVE VALVE G06686, AND RECONNECT TO THE NEW 2&quot; MDPE PIPE, REMOVE 6&quot; SQUEEZE (ANY 2&quot; MDPE USED IN THIS STEP SHALL BE PRETESTED)</td>
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<td>8</td>
<td>SQUEEZE 2&quot; MDPE PIPE IN SUPERIOR ST EAST OF EX. VALVE (G07832)</td>
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<td>9</td>
<td>INSTALL THE BRANCH MAIN AT GLADSTONE STREET AND SUPERIOR STREET, TAP THE NEW 2&quot; H.V. TEE, OPEN NEW 2&quot; VALVE, AND SOAP TEST CONNECTION</td>
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<td>10</td>
<td>SOAP TEST NEW CONNECTIONS</td>
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</table>
**PROCEDURE #8 CONT.**

1. X Install purge stack on 3" PE stub of pipe at Glenwood Street, Open new 3" valve.
2. X Open valve G06686 to purge air to gas through all the new 6" MDPE gas main in 48th Avenue East to the purge stack installed on the 3" branch at Glenwood Street.
3. X Close valve new 3" PE valve at Glenwood Street and remove purge stack from branch main pipe stub (new 6" main pipe is now live).
4. X Soap Test new 6" connections at Gladstone and Glenwood Streets.
5. X Open valve G06686 and both of the new 6" PE valves at Gladstone Street.
6. X Squeeze 3" MDPE main east along Glenwood Street, remove cap and connect the existing 3" branch main to the new branch stub which was just used for purging, open 3" PE valve and soap test connection.

**PROCEDURE #9 CONT.**

1. X Install, test, and tap contractor supplied 6"x2" H.V. tap tees with a 2" PE valve and a stub of 2" PE pipe at each branch main location.
2. X Squeeze existing branch mains to isolate the existing steel valves, remove and return temporary blind flange.
3. X Remove the existing valve, transition, and any remaining Adaly-A pipe.
4. X Add pre-tested 2" PE pipe as necessary and reconnect the branch mains to the new 2" valves, if required by engineering; purge the segments of pipe prior to connection.
5. X Open the new 2" PE valve, pressure segments between branch saddles and squeeze, soap test connections, then remove squeeze.
6. X Repeate this procedure until all branch mains are connected as detailed in the plans.
7. X Abandon and cap existing tap tees used for branch main jumpers during this project.
8. X Open or abandon the 3" PE jumpers between branch mains as directed by engineering.
9. X Soap test final abandonments and connections.
**PROCEDURE #1 CONT.**

1. **C.O.D.**
   - INSTALL SERVICE CONNECTION POINT FOR 2802 E. 4TH ST.
   - CONTRACTOR TO INSTALL 8" MDPE GAS MAIN FROM STA. 0+50 TO 24+35
   - INSTALL 8"X 2" H.V. TEE WITH A 2" P.E. VALVE AND STUB OF PIPE W/ 2" PE END CAP
     FOR CONTRACTOR TO CONNECT TO
   - INSTALL NEW 2" MDPE SERVICE TO 2802 E. 4TH STREET, CONNECT TO CITY INSTALLED VALVE
   - PIG AND TEST NEW 2" MDPE SERVICE INCLUDING H.V. TEE AND VALVE, CLOSING VALVE ONCE COMPLETED
   - FOR ACTIVATION IN PROCEDURE 5

**PROCEDURE #2 CONT.**

1. **C.O.D.**
   - INSTALL SERVICE CONNECTION POINT FOR 2900 E. 4TH ST.
   - INSTALL 8"X 2" H.V. TEE WITH A 2" P.E. VALVE AND STUB OF PIPE W/ 2" PE END CAP
     FOR CONTRACTOR TO CONNECT TO
   - INSTALL 2"X3" PE REDUCER AND 3" MDPE GAS MAIN TO RECONNECTION POINT
   - INSTALL 3" PE END CAP
   - FOR CONNECTION AND TESTING IN PROCEDURE 7

**PROCEDURE #3 CONT.**

1. **C.O.D.**
   - PHASE 1 CONNECTIONS AT TISCHER CREEK
   - EXPOSE END CAPS OF EXISTING 8" MDPE GAS MAIN ON EACH SIDE OF BRIDGE
   - REMOVE CAPS AND CONNECT CONTRACTORS MAIN TO EACH END, CONTINUE 8" MDPE MAIN INSTALLATION TO STA. 24+35
   - PIG AND TEST MAIN FROM STA. 0+50 TO 24+35
   - INSTALL END CAPS
PROCEDURE #5
CONT. C.O.D.
ACTIVATE 2802 E. 4TH STREET SERVICE TO THE NEW MAIN IN PROCEDURE 1 INSTALLED IN PROCEDURE 1
1 X TAP H.V. TAP TEE FOR SERVICE TO 2802 E. 4TH STREET, OPEN 2" VALVE AND PURGE AIR TO GAS THROUGH NEW SERVICE RISER.
2 X COORDINATE WITH SERVICE DEPARTMENT AND SCHOOL ADMINISTRATION BUILDING FOR SHUTDOWN, RECONNECTION AND RE-LIGHT
3 X INSTALL 8" X 2" H.V. TEE, 2" PE VALVE, AND SHORT STUB OF 2" MDPE MAIN AT STATION 24+30, TEST, TAP, OPEN 2" VALVE AND CONNECT PURGE STACK
4 X CLOSE 2" VALVE ON TAP TEE AT STA. 24+30 TO PRESSURIZE THE MAIN
5 X INSTALL TEMPORARY CAP ONTO 2" PE VALVE AT RIDGEWOOD
6 X SOAP TEST ALL CONNECTIONS

PROCEDURE #6
CONT. C.O.D.
RECONNECT 2808 E. 4TH ST. GAS SERVICE TO NEW MAIN
1 X COORDINATE WITH SERVICE DEPARTMENT AND SCHOOL ADMINISTRATION BUILDING FOR SHUTDOWN, RECONNECTION AND RE-LIGHT
2 X INSTALL 8" X 1" TAP TEE WITH AN EFV, 1" PE VALVE, AND STUB OF PIPE
3 X SQUEEZE AND CAP EXISTING SERVICE TO 2808 E. 4TH STREET
4 X RECONNECT SERVICE TO NEW VALVE AND TEST EXISTING SERVICE FROM TAP TO RISER
5 X TAP 1" TEE FOR SERVICE TO 2808 E. 4TH STREET, PURGE AIR TO GAS THROUGH EXISTING SERVICE RISER.
6 X EXCAVATE AT OLD SERVICE TEE ON THE NORTH SIDE OF 4TH STREET, ABANDON THE TAP, CUT AND CAP SERVICE
7 X PURGE GAS TO AIR IN THE ABANDONED SERVICE AND PLUG OR CAP END
PROCEDURE #7 CONT.
C.O.D.
RECONNECT 3" MAIN FOR 2900 E. 4TH STREET SERVICE
INSTALLED IN PROCEDURE 2

1 X COORDINATE WITH SERVICE DEPARTMENT AND SCHOOL FOR SHUTDOWN AND RE-LIGHT
2 X SQUEEZE EXISTING 3" PE MAIN AT SW CORNER OF HAWTHORNE AND 4TH STREET, DEPRESSURIZE AT THE SERVICE RISER, CUT AND CAP MAIN TOWARDS 4TH STREET, REMOVE SQUEEZE
3 X RECONNECT EXISTING 3" MAIN TO NEW 3" MDPE PREVIOUSLY INSTALLED
4 X TEST 3" MAIN FROM SERVICE RISER TO THE H.V. TEE
5 X TAP H.V. TEE FOR SERVICE TO 3221 E. 4TH STREET, PURGE AIR TO GAS THROUGH EXISTING SERVICE RISER.
SOAP TEST ALL CONNECTIONS

PROCEDURE #8 CONT.
C.O.D.
RECONNECT 3221 E. 4TH ST. GAS SERVICE TO NEW MAIN

1 X COORDINATE WITH SERVICE DEPARTMENT FOR SHUTDOWN AND RE-LIGHT
2 X SQUEEZE EXISTING 1/2" SERVICE AND CAP END TOWARDS THE EXISTING STEEL MAIN
3 X INSTALL 8"X 1/2" TAP TEE WITH AN EFV AND RECONNECT TO THE EXISTING SERVICE
4 X TEST EXISTING SERVICE AND NEW TAP TEE
5 X TAP 1/2" TEE FOR SERVICE TO 3221 E. 4TH STREET, PURGE AIR TO GAS THROUGH EXISTING SERVICE RISER.

PROCEDURE #9 CONT.
C.O.D.
DISCONNECT AND ABANDON 6" STEEL MAIN

1 X EXCAVATE AT VALVE G07166 AND EXPOSE 2" PE SOUTH TO BRANCH MAIN CONNECTION, THEN EXPOSE BRANCH TEES 5' FOR SQUEEZE
2 X CLOSE VALVE G07166
3 X CONFIRM VALVES G02650, G01809, (RIDGEWOOD) AND G06620 (34TH AVE E.) ARE CLOSED AND BRANCH MAIN CONNECTS BEYOND THOSE VALVES HAVE BEEN PREVIOUSLY DISCONNECTED AND CAPED BY THE CITY.
4 X INSTALL TWO SQUEEZES, CUT AND REMOVE BRANCH TEE CONNECTION
5 X INSTALL PRETESTED 2" P.E. MAIN WITH A 90° BEND TO CONNECT THE SOUTHERLY PIPE WITH THE EASTERLY PIPE
6 X REMOVE SQUEEZES AND MARK LOCATION. SOAP TEST NEW CONNECTIONS
7 X INSTALL PURGE STACK ON VALVE G07166, AND OPEN VALVE TO DEPRESSURIZE THE 6" STEEL MAIN, CLOSE VALVE G07166 AND INSTALL BLIND FLANGE TO ABANDON
8 X CUT OFF 3" CAP FROM EXISTING PE MAIN AND INSTALL PURGE STACK
9 X AT STATION 31+55 INSTALL AN AIR MOVER ON THE EXISTING DRILL NIPPLE NEAR THE EXISTING 6" STOP FITTING. (PREVIOUSLY EXPOSED BY C.O.D.)
10 X PURGE GAS TO AIR IN THE 6" STEEL GAS MAIN, WHEN COMpletely PURGED RE INSTALL 3" PE CAP FOR ABANDONMENT PURPOSES ON THE WEST END OF THE PIPE.
PROCEDURE #11 CONT.

1. REMOVE DECOMMISSIONED 6" STEEL GAS MAIN AND INSTALL NEW 8" MDPE GAS MAIN IN THE SAME TRENCH FROM STA. 24+35 TO 32+50

2. PIG AND TEST MAIN FROM STA. 24+35 TO 32+50

3. INSTALL END CAPS

4. NOTIFY 3221 E. SUPERIOR OF SHUTDOWN AND CLOSE THE NEW 8" PE VALVE AT STATION 19+75 AND THE 2" BRANCH MAIN VALVE AT STATION 24+30

5. DEPRESSURIZE MAIN FROM SERVICE RISER AT 3221 E 4TH STREET

6. REMOVE END CAP FROM THE ACTIVE 8" MDPE MAIN AT STATION 24+35 AND CONNECTION THE 8" MAIN TOGETHER, LEAVE EXPOSED FOR FUTURE SOAP TESTING
PROCEDURE #12
CONT.

C.O.D.
PURGE NEW 8" MDPE GAS MAIN FROM STA. 19+75 TO 34TH AVE EAST
1
X
DEPARTMENT TO PROVIDE PRE-TESTED END CONNECTION ASSEMBLY FOR INSTALLATION AT STATION 33+56 CONSISTING OF A FLANGED 8"X6" STEEL REDUCER, 8" TRANSITION, AND A 20' STUB OF 8" MDPE PIPE (MAY BE ALREADY INSTALLED TO VALVE G06620)
2
X
CONFIRM VALVE G06620 IS CLOSED AND REMOVE BLIND FLANGE OR END ASSEMBLY
3
X
CONNECT THE CITY PROVIDED END ASSEMBLY TO THE END OF THE CONTRACTOR'S TESTED 8" MDPE MAIN
4
X
PURGE THE NEW 8" MAIN FROM AIR TO GAS FROM STA. 19+75 TO 32+56 BY OPENING THE NEW 8" PE VALVE AT STA 19+75, CLOSE VALVE WHEN PURGED

PROCEDURE #13
CONT.

C.O.D.
REACTIVATE SERVICE TO 3221 E. 4TH STREET
1
X
COORDINATE RE-LIGHT WITH CITY OF DULUTH CUSTOMER SERVICE

PROCEDURE #14
CONT.

C.O.D.
RECONNECT RIDGWOOD DRIVE NORTH BRANCH MAIN
1
X
DEPARTMENT TO INSTALL 8"X2" H.V. TEE, 2" PE VALVE, AND SHORT STUB OF 2" MDPE GAS MAIN WITH CAP AT STATION 24+70
2
X
TEST AND CAP TEE AND STUB OF PIPE, CLOSE NEW VALVE
3
X
SQUEEZE EXISTING 2" MAIN TO THE NORTH, REMOVE 2" CAPS AND CONNECT 2" BRANCH MAIN
4
X
OPEN NEW 2" PE VALVE AND SOAP TEST NEW CONNECTION
5
X
REMOVE SQUEEZE, MARK LOCATION, AND SOAP TEST ALL CONNECTIONS