

THE WATER MAIN INSTALLATION SEQUENCE OF CONSTRUCTION LISTED BELOW IS A SUGGESTED SEQUENCE OF OPERATIONS AND DOES NOT, NOR IS IT INTENDED, TO DEPICT ALL THE WORK REQUIRED BY THE CONTRACTOR TO CONSTRUCT THE NEW WATER MAIN AND APPURTENANCES AS SHOWN IN THE PLANS. THE SEQUENCE OF OPERATION IS GIVEN AS AN AIDE AND GUIDE FOR THE CONTRACTOR'S USE TO ESTABLISH NECESSARY GUIDELINES REQUIRED BY THE CITY OF DEKALB FOR SHUTTING DOWN OF EXISTING WATER MAINS. THE CONTRACTOR MAY WISH TO MAKE REVISIONS OR MODIFICATIONS TO THE SEQUENCE OF OPERATION AND/OR CONSTRUCTION METHODS. THE CONTRACT WILL COORDINATE AND FINALIZE THE SEQUENCE OF CONSTRUCTION OPERATIONS WITH THE ENGINEER AND CITY OF DEKALB WATER RESOURCE DIVISION. THE ABOVE REFERENCED NUMBER (*XXXX) REFER TO THE ASSIGNED VALVE NUMBER SHOWN IN THE CITY OF DEKALB'S WATER MAIN ATLAS.

WATER MAIN INSTALLATION SEQUENCE OF CONSTRUCTION:

INSTALL NEW WATER VALVE AND VAULT STA. 23+50, 26.5' LT.:

- ISOLATE EXISTING WATER MAIN FROM STA. 11+06 TO STA. 29+00 BY CLOSING WATER VALVES ON THE WEST END AT STA. 10+91 (*2277), STA. 11+06 (*1358) AND TO THE EAST NEAR MEADOW TRAIL AT STA. 28+48 (*1474), STA. 29+03 (*1413) AND STA. 29+12 (*1414).
- CUT OUT SECTION OF EXISTING WATER MAIN AND INSTALL NEW WATER VAULT AND GATE VALVE AT STA. 23+50, 36.5' LT. (SEE DRAINAGE AND UTILITY SHT.) WORK SHALL BE COMPLETED WITHIN 2 HOUR TIME PERIOD.
- KEEP NEW VALVE AT STA. 23+50 CLOSED AFTER INSTALLATION.
- RETURN THE SECTION OF WATER MAIN TO SERVICE FROM THE NEW VALVE AT STA. 23+50 EAST TO MEADOW TRAIL BY OPENING VALVES NEAR MEADOW TRAIL AT STA. 28+48 (*1474), STA. 29+03 (*1413) AND STA. 29+12 (*1414).

INSTALL NEW WATER VALVE AND VAULT STA. 10+91, 53' LT.:

- ISOLATE EXISTING WATER MAIN FROM STA. 10+80 TO STA. 10+91 AND THE NEXT VALVE NORTH ON N. FIRST STREET BY CLOSING WATER VALVES ON THE WEST END OF BETHANY RD. AT STA. 10+80 (*2278), STA. 11+06 (*2277) AND TO THE NORTH ON N. FIRST STREET (*2279).
- CUT OUT SECTION OF EXISTING WATER MAIN AND INSTALL NEW WATER VAULT AND GATE VALVE AT STA. 10+91, 53.0' LT. WORK SHALL BE COMPLETED WITHIN 2 HOUR TIME PERIOD.
- KEEP NEW VALVE AT STA. 10+91, 53' LT., STA. 10+80 (*2278) AND STA. 11+06 (*2277) CLOSED.
- RETURN THE SECTION OF WATER MAIN TO SERVICE FROM NEW VALVE AT STA. 10+91, 53' LT. TO THE NORTH BY OPENING VALVE (*2279) NORTH OF INTERSECTION.

NEW WATER MAIN INSTALLATION:

- CONSTRUCT NEW WATER MAIN FROM STA. 11+06 TO STA. 15+00 AND THE NEW WATER VALVE AND VALVE VAULT AT STA. 11+19.50.
- TEMPORARY PLUG AND CONNECT "WHIPS" (CORPORATION STOPS) AT EACH END OF NEW WATER MAIN FOR TESTING AND CHLORINATION.
- PRESSURE TEST, DISINFECT AND CHLORINATE NEW WATER MAIN.

ISOLATE AND PLUG EXISTING MAIN:

- WITH NEW VALVES AT STA. 10+91, 53' LT., STA. 23+50, 36.5' LT. AND EXISTING VALVES AT STA. 10+80 (*2278) AND STA. 11+06 (*2277) CLOSED, ISOLATE EXISTING WATER MAIN FROM STA. 10+80 TO STA. 11+06 BY CLOSING WATER VALVE AT STA. 11+06, RT. (*1357).
- DISCONNECT EXISTING WATER MAIN ON THE WEST SIDE OF "TEE" AT STA. 11+06. REMOVE PORTION OF WATER MAIN PIPE AND PROVIDE MECHANICAL JOINT PLUG, TEMPORARY THRUST BLOCK AND INSTALL CORPORATION STOP.

CONNECTION TO EXISTING WATER MAIN

- WITH EXISTING WATER MAIN ISOLATED BY CLOSED VALVES AT STA. 10+80 (*2278) AND STA. 11+06 (*1357) AND NEW VALVES AT STA. 10+91 AND STA. 23+50, REMOVE EXISTING WATER VALVE AND VALVE VAULT AT STA. 11+00 (*2277) AND 10+06 (*1358) AND ALL WATER MAIN AND FITTINGS BETWEEN THESE VALVES.
- CONSTRUCT NEW WATER MAIN FROM NEW TEE AT STA. 10+91, 33' LT. TO NEW TEE AT 11+06, 33' LT. AND WATER MAIN FROM THE NEW TEE AT STA. 11+06, 23' LT. TO CONNECTION TO EXISTING WATER MAIN AT STA. 11+06, 23' LT.
- CONNECT NEW WATER MAIN TO NEW TEE AT STA. 11+06, 33' LT. AND USING 45 DEGREE BENDS TO THE EXISTING WATER MAIN AT STA. 15+00, 33' LT.
- FLUSH WATER MAIN.
- RETURN WATER MAIN TO SERVICE BY OPENING VALVES AT WEST END AT STA. 10+90, 33' LT. (*2278), STA. 11+06 (*1357) AND THE NEW VALVES AT STA. 10+91 AND STA. 23+50.

EXISTING WATER VALVE #2279 APPROXIMATELY 1075' NORTH OF FIRE HYDRANT STA. 106+35 N. FIRST STREET (250' SOUTH OF RICH ROAD - NOT SHOWN)

SEE DRAINAGE AND UTILITY PLAN SHEETS FOR DETAILS OF WATER MAIN IMPROVEMENTS

5' DIA. VALVE VAULT, FRAME AND CL LID 12" GATE VALVE STA. +91.0, 53.0' LT

5' DIA. VALVE VAULT, FRAME AND CL LID 12" GATE VALVE STA. +19.5, 40.0' LT

PROP. WATERMAIN

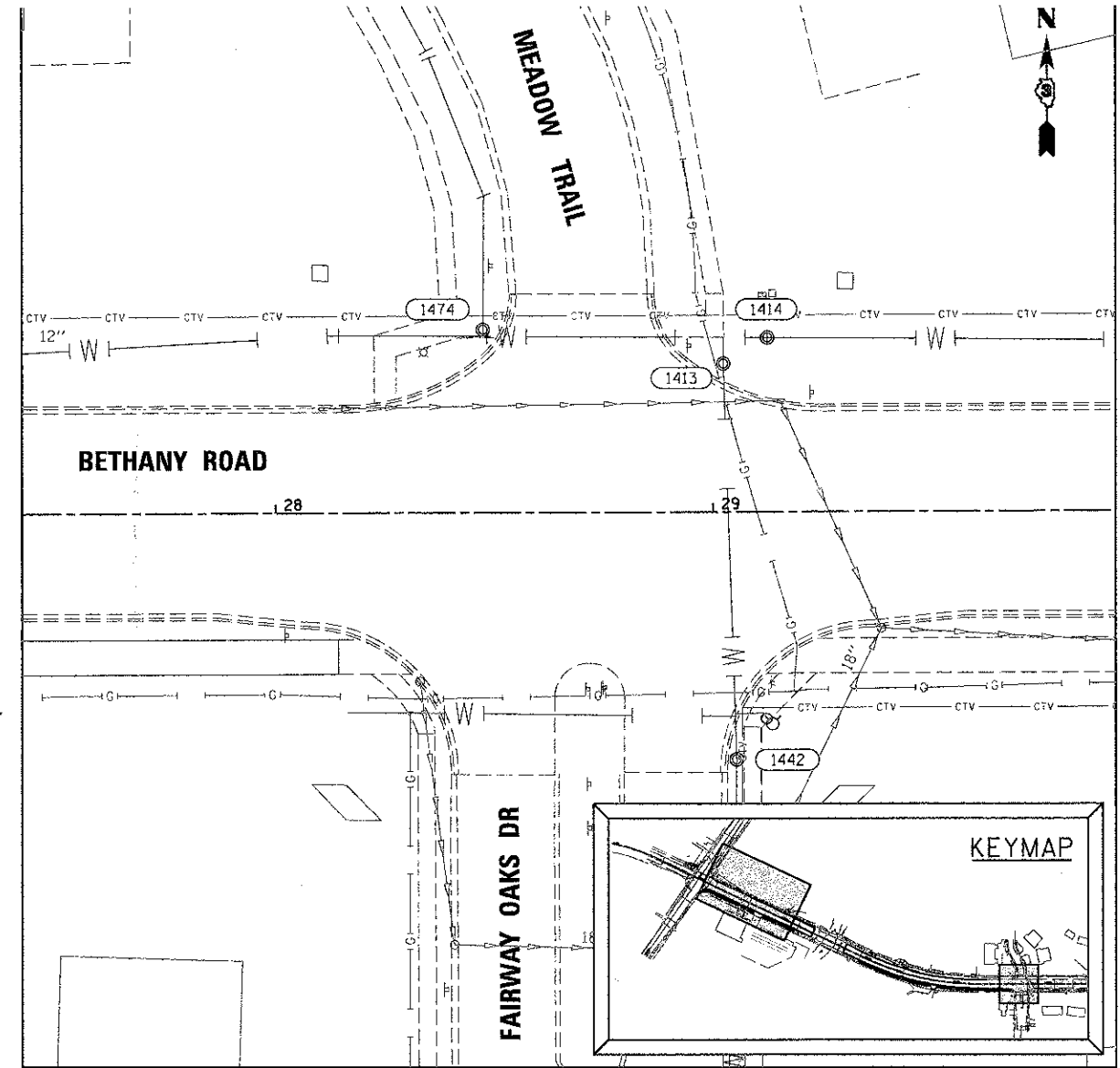
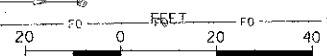
EX. WATERMAIN TO BE ABANDONED

BETHANY ROAD

PLUG PROP. CONNECTION TO EX. WATERMAIN

INSTALL NEW VALVE AND VAULT AT STA. 23+50. (SEE SHT. 44)

GRAPHIC SCALE



KEYMAP

FILE NAME: M:\Projects\2012\120155 Bethany\833\COO\G.M\1\Dgn\Sheet\UTIL_01.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

| | | |
|------------------------|-----------------|-----------|
| USER NAME = nparr13 | DESIGNED - SBP | REVISED - |
| PLOT SCALE = 1:20 | DRAWN - NDP | REVISED - |
| PLOT DATE = 12/28/2012 | CHECKED - DPB | REVISED - |
| | DATE - 12/21/12 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WATER MAIN SEQUENCE
OF CONSTRUCTION**

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

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|---------------------------|------------------------|---------------|-----------------|--------------|
| F.A.U. RTE. 5355 | SECTION 10-00167-01-WR | COUNTY DEKALB | TOTAL SHEETS 78 | SHEET NO. 47 |
| CONTRACT NO. 87544 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |