**3RD STREET WATER LINE REPLACEMENT PHASE 1**

**5TH AVENUE TO SIXTH STREET CONSTRUCTION SEQUENCE**

1. Construct 12” pipe starting just south of the existing line on 5th Avenue [A-1] to the cross and valve assembly lying 6’ north of the existing pipe on 6th Avenue [A-5].
2. Pressure test this section
3. Make tie-in to existing 8” line at 5th Avenue using an 8” x 12” Reducer [F-4] and an 8” Tee [F-1]. Other option for this tie-in could be
   1. Use a temporary 12” tee and 2 - 8” valve assembly in line with the existing pipe. This assembly would move to the north if the future 12” pipe was to run 4’ south of the north curb line on 5th Avenue.
   2. Using a 12” X 8” cross and 4 valve assembly 6’ north of the existing water line. This option would setup for the future line on 5th Avenue at 6’ north of the existing pipe.
   3. Using a 12” X 8” cross and 4 valve assembly 4’ south of the north flow line of 5th Avenue. This option would set up for the future line on 5th Avenue on north side of road.
4. Cap off existing 4” line on 6th Avenue at new tie-in locations so new 12” can be constructed through this section.
5. Construct 12” pipe from first elbow south of existing 4” on 6th Avenue [F-12] to a point just north of the existing line on 7th Avenue.
6. Pressure test this section of pipe
7. Make tie-in to existing line at 7th Avenue using a 12” x 8” cross and valve assembly at a point 6’ south of the existing line. [See 7th Avenue Tie-in Detail on Sheet 8] This option locks in the future alignment on 7th Avenue squeezed between the existing 8” line and the curb line. Other option for this tie-in are
   1. Using a 12” X 8” cross and valve assembly in line with the existing 8” water line. This option would leave open as to where the future line would run on 7th Avenue either 6’ north or south of the existing line.
   2. Using a 12” x 8” cross and valve assembly at a point 6’ north of the existing line. This option locks in the future alignment down the center of the travel lane of 7th Avenue
   3. Either a. or b. extend the new 12” pipe south to a point out of 7th Avenue and cap for future tie-in to the south.
8. Make tie-ins to existing lines at 6th Avenue. [See 6th Avenue Tie-in Detail on Sheet 8]