TEMPORARY 4” FLOWABLE FILL PIPE THREADED INTO COLLAR WELDED TO STEEL CASING
STAINLESS STEEL CASING SPACERS (3 PER SECTION OF PIPE)
TEMPORARY FLOWABLE FILL VENT PIPE THREADED INTO COLLAR WELDED TO STEEL CASING
DOUBLE BAGGED CARRIER PIPE

14” ENDS TO BE BRICK AND MORTARED OR SEALED WITH ONE PIECE PULL-ON RUBBER END SEAL WITH ALL STAINLESS STEEL HARDWARE MODEL ESC BY CCI PIPELINE SYSTEMS

CASING PIPE MATERIAL AS SPECIFIED ON PLANS

<table>
<thead>
<tr>
<th>CARRIER PIPE</th>
<th>CASING PIPE</th>
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</thead>
<tbody>
<tr>
<td>8”</td>
<td>16” (MIN.)</td>
</tr>
<tr>
<td>10”</td>
<td>20” (MIN.)</td>
</tr>
<tr>
<td>12”</td>
<td>20” (MIN.)</td>
</tr>
<tr>
<td>24”</td>
<td>36” (MIN.)</td>
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</tbody>
</table>

FILL WITH FLOWABLE FILL FOR DUCTILE IRON PIPE
FILL WITH PEA GRAVEL FOR PVC PIPE

1. CASING PIPE TO BE BITUMINOUS COATED STEEL CASING PIPE, 0.5” THICK OR C900/C905 DR25 PVC OR OTHER AS SPECIFIED ON THE PLANS.
2. CASING SPACERS SHALL BE STAINLESS STEEL BY CASCADE OR APPROVED EQUAL (3 SPACERS PER EACH LENGTH OF PIPE).
3. WATER MAIN CASING SPACERS REQUIRE RESTRAINED POSITIONING.
4. ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THESE DRAWINGS AND ACTUAL FIELD CONDITIONS ARE TO BE IMMEDIATELY REPORTED TO THE PROJECT MANAGER.
5. THE LOCATIONS OF UTILITIES ARE SHOWN ON THE DRAWINGS FROM AVAILABLE RECORDS. HOWEVER, THE LOCATIONS CANNOT BE GUARANTEED NOR IS IT IMPLIED THAT ALL ITEMS ARE SHOWN.
6. ALL EXCAVATIONS ARE TO BE PROPERLY SHORED.
7. TEMPORARY METAL CHAIN LINK FENCES ARE TO BE INSTALLED AROUND ALL BORING/AUGERING PITS.
8. ALL JOINTS LOCATED INSIDE OF CASING PIPE MUST BE RESTRAINDED WITH FIELD-LOK GASKETS OR RESTRAINED JOINT PIPE.
9. ALL DUCTILE IRON WATER MAINS LOCATED INSIDE OF CASING PIPE MUST HAVE TWO LAYERS OF POLYETHYLENE ENCASEMENT PER THE VILLAGE’S POLYETHYLENE ENCASEMENT DETAIL FOR PROTECTION OF DUCTILE IRON WATER MAINS.
10. ALL CASING PIPE IS TO BE FILLED WITH FLOWABLE FILL FOR DUCTILE IRON PIPE OR PEA GRAVEL FOR PVC PIPE. FLOWABLE FILL/VENT PIPES SHALL BE 4” GALVANIZED IRON PIPE. SCHEDULE 40. THE FLOWABLE FILL PIPES SHALL BE THREADED INTO COLLARS WHICH ARE WELDED TO THE STEEL CASING PIPE. THE FILL AND VENT PIPES SHALL BE REMOVED AFTER PUMPING THE CASING FULL WITH FLOWABLE FILL.
11. FLOWABLE FILL MATERIAL SHALL BE DESIGNATED AS “FLOWABLE FILL” AND SHALL HAVE A COMPRESSIVE STRENGTH OF 100–150 PSI.

CASING PIPE DETAIL

STANDARD DETAILS
2014

VILLAGE OF NORTHBROOK
PUBLIC WORKS DEPARTMENT