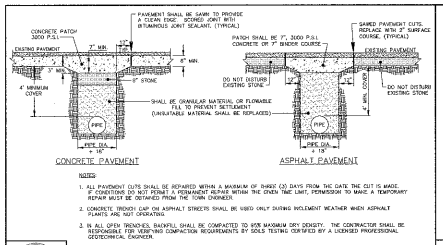
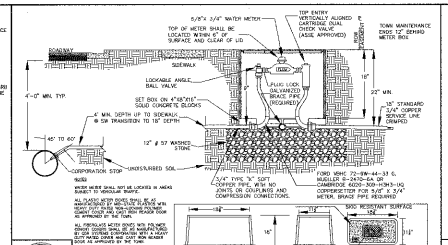



STANDARD TRENCH AND PAVEMENT REPAIR SECTIONS

DETAIL No. 05000.01 SHEET 1 OF 1

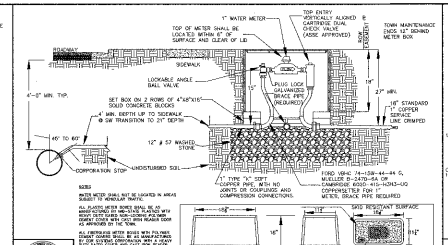
EFFECTIVE: 07/01/04




STANDARD 3/4" WATER SERVICE & METER BOX INSTALLATION

DETAIL No. 06000.01 SHEET 1 OF 2

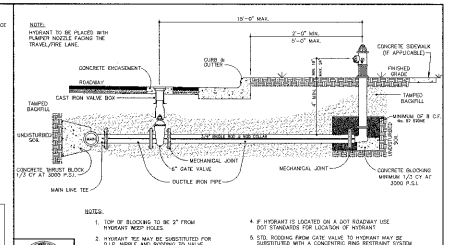
EFFECTIVE: 11/13/03




STANDARD 1" WATER SERVICE & METER BOX INSTALLATION

DETAIL No. 06000.01 SHEET 2 OF 2

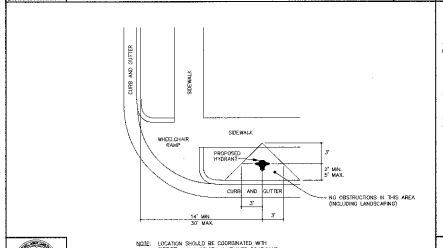
EFFECTIVE: 11/13/03



STANDARD HYDRANT INSTALLATION

DETAIL No. 06000.06 SHEET 1 OF 1

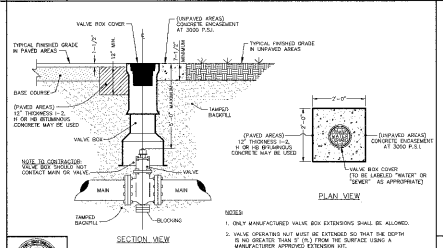
EFFECTIVE: 07/01/04



STANDARD HYDRANT LOCATION

DETAIL No. 06000.07 SHEET 1 OF 2

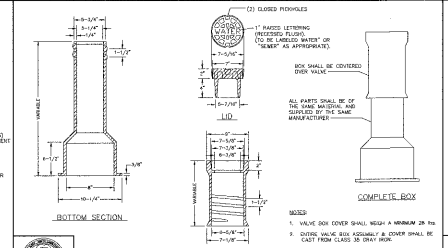
EFFECTIVE: 07/01/04



STANDARD VALVE BOX INSTALLATION

DETAIL No. 06000.08 SHEET 1 OF 2

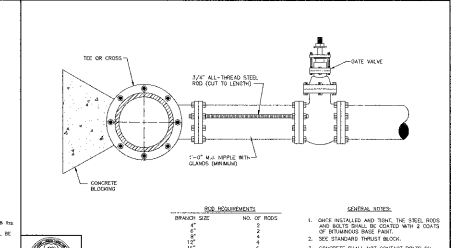
EFFECTIVE: 07/01/04



STANDARD VALVE BOX INSTALLATION

DETAIL No. 06000.08 SHEET 2 OF 2

EFFECTIVE: 07/01/04

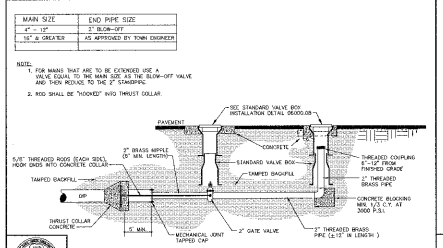


STANDARD VALVE RODDING

DETAIL No. 06000.09 SHEET 1 OF 1

EFFECTIVE: 07/01/04

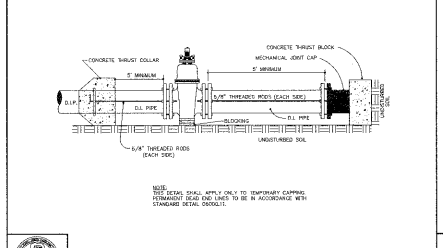
| MAIN SIZE | END PIPE SIZE |
|---|---|
| 4" – 12" | 3" BLOW-OFF |
| 16" & GREATER | AS APPROVED BY TOWN ENGINEER |



STANDARD 2" BLOW-OFF ASSEMBLY

DETAIL No. 06000.11 SHEET 1 OF 1

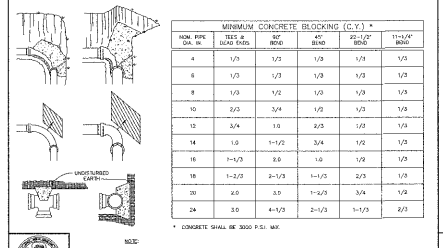
EFFECTIVE: 07/01/04



STANDARD CAPPING DETAIL

DETAIL No. 06000.12 SHEET 1 OF 1

EFFECTIVE: 07/01/04



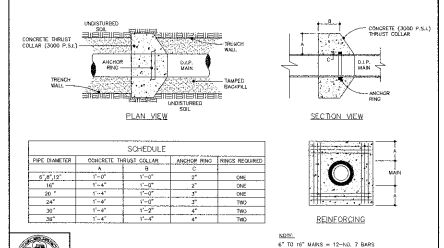
| NOM. PIPE DIA. IN | TEES & DEAD ENDS | 90° BEND | 45° BEND | 22-1/2° BEND | 11-1/4° BEND |
|---|---|---|---|---|---|
| 4 | 1/3 | 1/3 | 1/3 | 1/3 | 1/3 |
| 6 | 1/3 | 1/3 | 1/3 | 1/3 | 1/3 |
| 8 | 1/3 | 1/2 | 1/3 | 1/3 | 1/3 |
| 10 | 2/3 | 3/4 | 1/2 | 1/3 | 1/3 |
| 12 | 3/4 | 1.0 | 2/3 | 1/3 | 1/3 |
| 14 | 1.0 | 1-1/2 | 3/4 | 1/2 | 1/3 |
| 16 | 1-1/3 | 2.0 | 1.0 | 1/2 | 1/3 |
| 18 | 1-2/3 | 2-1/3 | 1-1/3 | 2/3 | 1/3 |
| 20 | 2.0 | 3.0 | 1-2/3 | 3/4 | 1/2 |
| 24 | 3.0 | 4-1/3 | 2-1/3 | 1-1/3 | 2/3 |

* CONCRETE SHALL BE 3000 P.S.I. MIX.

STANDARD REACTION BLOCKING

DETAIL No. 06000.13 SHEET 1 OF 1

EFFECTIVE: 07/01/04

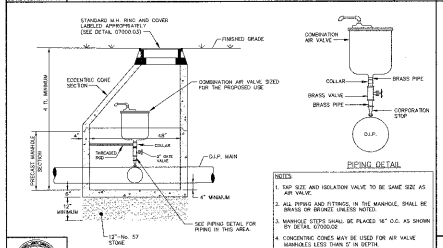


| PIPE DIAMETER | CONCRETE THRUST COLLAR A | B | ANCHOR RING C | RINGS REQUIRED |
|---|---|---|---|---|
| 6",8",10" | 1'-0" | 1'-0" | 3" | ONE |
| 16" | 1'-4" | 1'-0" | 3" | ONE |
| 20" | 1'-4" | 1'-0" | 3" | ONE |
| 24" | 1'-4" | 1'-0" | 3" | TWO |
| 30" | 1'-4" | 1'-2" | 4" | TWO |
| 36" | 1'-4" | 1'-4" | 4" | TWO |

STANDARD THRUST COLLAR INSTALLATION

DETAIL No. 06000.14 SHEET 1 OF 1

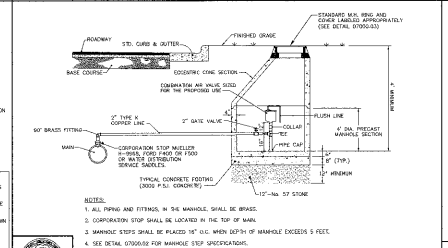
EFFECTIVE: 07/01/04



STANDARD COMBINATION AIR VALVE MANHOLE (FOR WATER, RECLAIMED WATER, OR SEWER MAINS)

DETAIL No. 06000.15 SHEET 1 OF 2

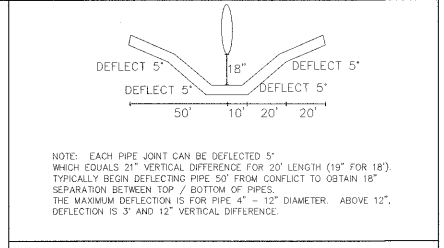
EFFECTIVE: 07/01/04



STANDARD COMBINATION AIR VALVE MANHOLE OFFSET FROM MAIN (FOR WATER, RECLAIMED WATER, OR SEWER MAINS )

DETAIL No. 06000.15 SHEET 2 OF 2

EFFECTIVE: 07/01/04




NOTE: EACH PIPE JOINT CAN BE DEFLECTED 5° WHICH EQUALS 21" VERTICAL DIFFERENCE FOR 20' LENGTH (19" FOR 18'). TYPICALLY BEGIN DEFLECTING PIPE 50' FROM CONFLICT TO OBTAIN 18" SEPARATION BETWEEN TOP / BOTTOM OF PIPES. THE MAXIMUM DEFLECTION IS FOR PIPE 4" – 12" DIAMETER. ABOVE 12", DEFLECTION IS 3° AND 12" VERTICAL DIFFERENCE.

WATERLINE CROSSING CONFLICT DETAIL

06-SP-093
APPROVED
TOWN OF CARY

Approved by DPK Date 2-15-07
Planning BDS Date 3-12-07
Engineering TS Date 3-9-07

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3/9/07
RELEASED FOR CONSTRUCTION

# AMBERLY TOWN CENTER

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Raleigh, NC 27607

REVISIONS

PROJECT #: 06-4014 DATE: 03/05/07

DRAWN BY: MB CHECKED BY: DS

TITLE

WATERLINE DETAILS

SHEET

C9.4