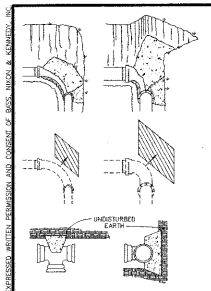



| MINIMUM CONCRETE BLOCKING (C.Y.) * | | | | | |
|---|---|---|---|---|---|
| NOM. PIPE DIA. IN. | TEES & DEAD ENDS | 90° BEND | 45° BEND | 22-1/2° BEND | 11-1/4° BEND |
| 4 | 1/3 | 1/3 | 1/3 | 1/3 | 1/3 |
| 6 | 1/3 | 1/3 | 1/3 | 1/3 | 1/3 |
| 8 | 1/3 | 1/2 | 1/3 | 1/3 | 1/3 |
| 10 | 2/3 | 3/4 | 1/2 | 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 |

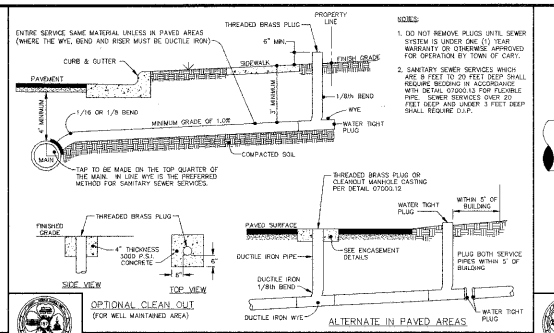
* CONCRETE SHALL BE 3000 P.S.I. MIX.

NOTE:
FITTING SHALL BE WRAPPED WITH A MINIMUM 4 MIL PLASTIC. NO CONCRETE SHALL COVER BOLTS OR GLANDS.

## STANDARD REACTION BLOCKING

DETAIL No. 06000.13 SHEET 1 OF 1

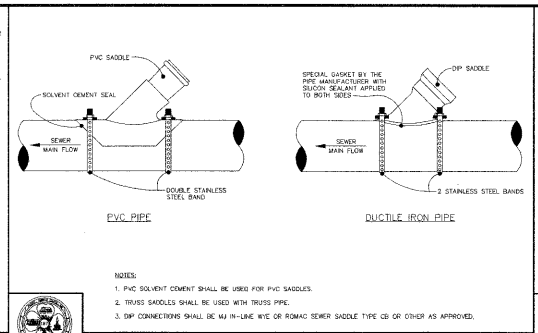
EFFECTIVE: 07/01/04




## STANDARD SANITARY SEWER TAP AND SERVICE

DETAIL No. 07000.10 SHEET 1 OF 2

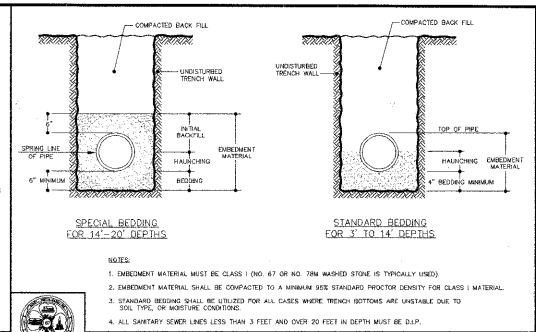
EFFECTIVE: 09/08/05




## STANDARD SANITARY SEWER LATERAL CONNECTIONS

DETAIL No. 07000.11 SHEET 1 OF 1

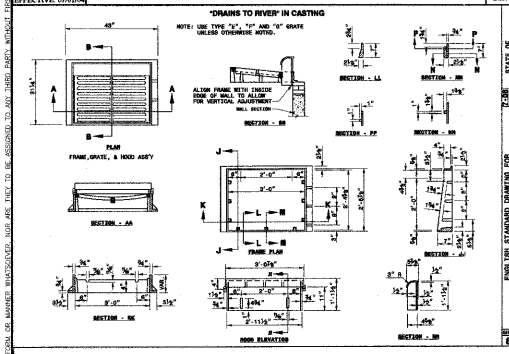
EFFECTIVE: 07/01/04




## BEDDING FOR FLEXIBLE & SEMI- RIGID SANITARY SEWER PIPE

DETAIL No. 07000.13 SHEET 1 OF 1

EFFECTIVE: 07/01/04

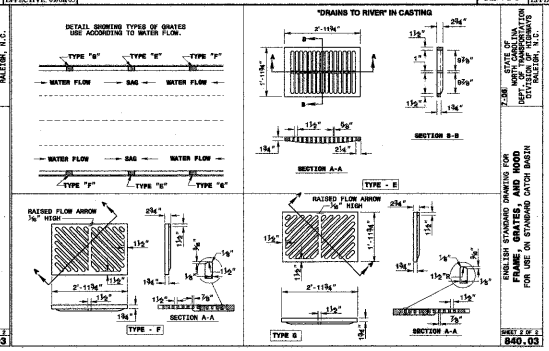



STATE OF NORTH CAROLINA DEPT. TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

7-30

ENGLISH STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

SHEET 1 OF 2 840.03




STATE OF NORTH CAROLINA DEPT. TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

7-30

ENGLISH STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2 840.03

**09-MU-001/09-SP- 041**
**APPROVED**
**TOWN OF CARY**

Approved by TC Date 12/10/2009
Planning KAH Date 1/6/2010
Engineering SS Date 1/6/2010

IT'S THE LAW!
AS OF JANUARY 1, 1986, NORTH CAROLINA STATE LAW REQUIRES ANYONE EXCAVATING WITH MECHANICAL EQUIPMENT ON HIGHWAY RIGHTS-OF-WAY, PRIVATE UTILITY EASEMENTS, OR PUBLIC SPACES TO NOTIFY ALL UTILITIES TWO (2) WORKING DAYS PRIOR TO DIGGING.

NOTES:
ALL PIPE LENGTHS ARE MEASURED FROM CENTERLINE OF STRUCTURE TO CENTER OF STRUCTURE.

CONTACT NORTH CAROLINA ONE-CALL CENTER PRIOR TO ANY CONSTRUCTION: (800) 632-4949

ALL STRUCTURE OFFSETS ARE MEASURED FROM CL OF ROAD TO CENTER OF STRUCTURE

**NOTE: ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF CARY AND THE STATE OF NORTH CAROLINA STANDARDS & SPECIFICATIONS AND DETAILS.**

NORTH CAROLINA 029993 ENGINEER DANNY L. HOWELL, JR.

BNK

BASS, NIXON & KENNEDY, INC.
CONSULTING ENGINEERS
• 6310 CHAPEL HILL ROAD, SUITE 250, RALEIGH, NC 27607
• 3319 HERITAGE TRADE DRIVE, SUITE 201, WAKE FOREST, NC 27587
TELEPHONE: (919)851-4490 OR (800)334-1929
FAX: (919)851-8866 (RALEIGH), (919)570-1382 (WAKE FOREST)

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 3 | 12-01-09 | PER T.O.C. COMMENTS | RAB |
| 2 | 11-04-09 | PER T.O.C. COMMENTS | RAB |
| 1 | 10-01-09 | PER T.O.C. COMMENTS | RAB |

REVISIONS

JOB NO. 03-06067 DATE 08-13-2009 DRAWN BY RAB

DETAILS

SCALE: N.T.S. CHK BY: DLH

# CAROLINA LEGACY
## 125/151 QUARRYSTONE CIRCLE
TOWN OF CARY, WAKE COUNTY, NORTH CAROLINA

SHEET C5.3 11 OF 14

NOT RELEASED FOR CONSTRUCTION

09-MU-001/09-SP-041

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R:\2009-03\06\DGN\TOWN Construction\BNK_details.dwg, 12/1/2009 2:06:13 PM, Danny Howell