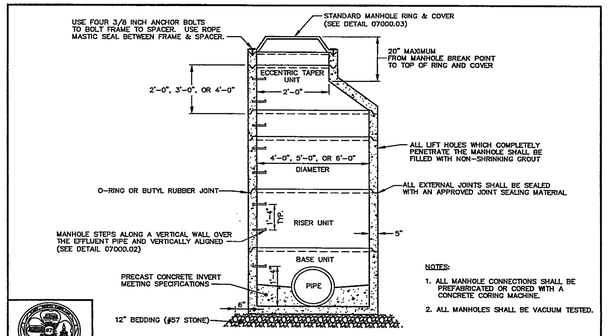


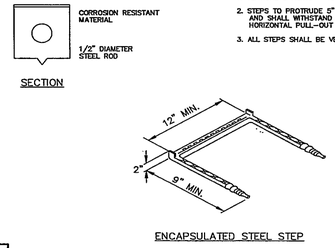
NOTES:

1. ALL MANHOLE CONNECTIONS SHALL BE PREFABRICATED OR CORED WITH A CONCRETE CORING MACHINE.
2. ALL MANHOLES SHALL BE VACUUM TESTED.

STANDARD PRECAST CONCRETE MANHOLE

DETAIL No. 07000.01 SHEET 1 OF 1

EFFECTIVE: 07/01/04



ENCAPSULATED STEEL STEP

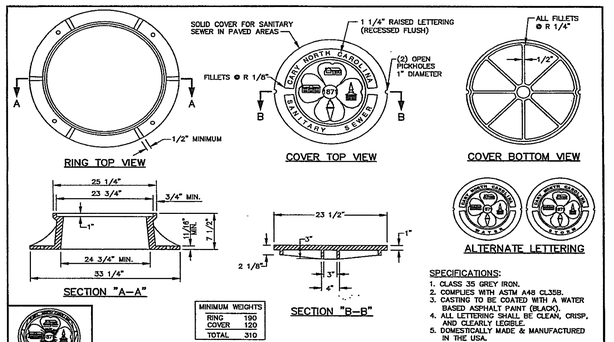
NOTES:

1. VERTICAL SPACING = 16" O.C., ON VERTICAL WALL ONLY.
2. STEPS TO PROTRUDE 5" FROM FACE OF STRUCTURE WALL, AND SHALL WITHSTAND A VERTICAL LOAD OF 400 LBS. AND A HORIZONTAL PULL-OUT LOAD OF 1000 LBS. WHEN INSTALLED.
3. ALL STEPS SHALL BE VERTICALLY ALIGNED IN A STRAIGHT LINE.

MANHOLE STEPS

DETAIL No. 07000.02 SHEET 1 OF 1

EFFECTIVE: 07/01/04



MINIMUM WEIGHTS	
RING	190
COVER	120
TOTAL	310

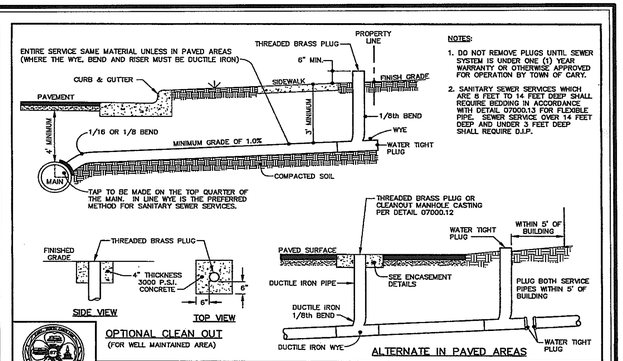
SPECIFICATIONS:

1. CLASS 35 GREY IRON.
2. COMPLIES WITH ASTM A48 CL35B.
3. CASTING TO BE COATED WITH A WATER BASED ASPHALT PAINT (BLACK).
4. ALL LETTERING SHALL BE CLEAN, CRISP, AND CLEARLY LEGIBLE.
5. DOMESTICALLY MADE & MANUFACTURED IN THE USA.

STANDARD MANHOLE RING AND COVER (TYPE 1 PAVED AREAS)

DETAIL No. 07000.03 SHEET 1 OF 3

EFFECTIVE: 07/01/04



NOTES:

1. DO NOT REMOVE PLUGS UNTIL SEWER SYSTEM IS UNDER ONE (1) YEAR WARRANTY OR OTHERWISE APPROVED FOR OPERATION BY TOWN OF CARY.
2. SANITARY SEWER SERVICES WHICH ARE 8 FEET TO 14 FEET DEEP SHALL REQUIRE BEDDING IN ACCORDANCE WITH DETAIL 07000.13 FOR FLEXIBLE PIPE. SEWER SERVICE OVER 14 FEET DEEP AND UNDER 3 FEET DEEP SHALL REQUIRE D.I.P.

STANDARD SANITARY SEWER TAP AND SERVICE

DETAIL No. 07000.10 SHEET 1 OF 2

EFFECTIVE: 07/01/04

NOTES:

1. PVC SOLVENT CEMENT SHALL BE USED FOR PVC SADDLES.
2. TRUSS SADDLES SHALL BE USED WITH TRUSS PIPE.
3. DIP CONNECTIONS SHALL BE MJ IN-LINE WYE OR ROMAC SEWER SADDLE TYPE CB OR OTHER AS APPROVED.

STANDARD SANITARY SEWER LATERAL CONNECTIONS

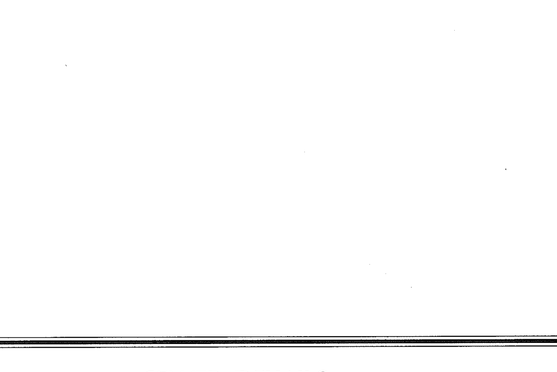
DETAIL No. 07000.11 SHEET 1 OF 1

EFFECTIVE: 07/01/04

CLEANOUT COVER ASSEMBLY TRAFFIC AREA

DETAIL No. 07000.12 SHEET 1 OF 1

EFFECTIVE: 07/01/04



NOTES:

1. EMBEDMENT MATERIAL MUST BE CLASS I (NO. 67 OR NO. 78M WASHED STONE IS TYPICALLY USED).
2. EMBEDMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY FOR CLASS I MATERIAL.
3. STANDARD BEDDING SHALL BE UTILIZED FOR ALL CASES WHERE TRENCH BOTTOMS ARE UNSTABLE DUE TO SOIL TYPE, OR MOISTURE CONDITIONS.
4. ALL SANITARY SEWER LINES LESS THAN 3 FEET AND OVER 20 FEET IN DEPTH MUST BE D.I.P.

BEDDING FOR FLEXIBLE & SEMI- RIGID SANITARY SEWER PIPE

DETAIL No. 07000.13 SHEET 1 OF 1

EFFECTIVE: 07/01/04

NORTH CAROLINA PROFESSIONAL SEAL 26495 ENGINEER DALE J. MCDONALD

5/12/08

05 - SP - 025 - A

APPROVED

TOWN OF CARY

Approved by DJM Date 5-5-08
Planning SP Date 5-20-08
Engineering SS Date 5/14/08

No.	Revision	Date	By
1-4	Previous Plan Submittals- See Previous Plans	12/09/05	DW/JM
5	Mylar Submittal	5/5/06	DW
6	Owners Revisions	02/21/08	DW/NP
7	Town of Cary Fourth Review Comments	03/27/08	DW/NP
8	Mylar Submittal	5/12/08	DW/NP

Designer W&R	Scale AS SHOWN
Drawn By NP	Date 12/09/05
Checked By DW	Job No. 201023.20

THE RESIDENCES AT THE ARBORETUM

TOWN OF CARY WAKE COUNTY NORTH CAROLINA

SEWER DETAILS

WITHERS & RAVENEL
ENGINEERS I PLANNERS I SURVEYORS
111 MacKenan Drive Cary, North Carolina 27511 tel: 919-469-3340 fax: 919-467-6008 www.withersravenel.com

Sheet No. 17 of 23

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