

1. LIFT HOLES ARE PERMITTED, BUT SHALL BE GROUTED WITH NON-SHRINK WATERPROOF GROUT.
2. ALL PENETRATIONS SHALL BE PRE-CAST OR CORE-DRILLED.
3. MANHOLE FABRICATIONS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF ASTM C-478.
4. COATINGS ON INTERIOR & EXTERIOR OF MANHOLES SHALL BE IN ACCORDANCE WITH ENGINEERING SERVICES DEPARTMENT APPROVED PRODUCT LIST.
5. FIRST MANHOLE UPSTREAM FROM A WET WELL SHALL BE 4'-0" DIAMETER (MIN.) FOR FULL HEIGHT. PROVIDE DOUBLE LID MANHOLE COVER & FRAME TYPE "A", U.S. FOUNDRY NO. 690-AH-M, OR APPROVED EQUAL, USED ON ARV MANHOLES. COVER TO BE MARKED AS SHOWN IN "MANHOLE INSTALLATION DETAILS".
6. GRAVITY SEWER DEPTHS SHALL NOT EXCEED 15 FT. EXCEPT BY SPECIFIC APPROVAL OF THE ENGINEERING SERVICES DEPARTMENT. PIPE FOR SUCH INSTALLATION SHALL BE CLASS 40 DIP EPOXY LINED.
7. ECCENTRIC CONES TO BE PLACED SO THAT RING & COVER ARE ON UPSTREAM SIDE OF MANHOLE.
8. WHEN A NEW LINE FLOW DROPS MORE THAN 1'-6" AT A MANHOLE, AN OUTSIDE DROP MANHOLE MUST BE USED. THIS SHALL ALSO APPLY TO LATERALS ENTERING MANHOLES.
9. NO INFILTRATION OR EXFILTRATION FOR NEW GRAVITY SEWERS SHALL BE ALLOWED. CHEMICAL REPAIR OF ANY LEAKS IS SPECIFICALLY NOT ALLOWED.
10. ALL MANHOLE FRAMES AND COVERS ARE TO BE FLUSH WITH PROPOSED FINISHED GRADES OF WALKS, PAVINGS, SWALES, ETC. THEY SHALL HAVE CONCRETE COLLARS POURED IN ACCORDANCE WITH APPLICABLE STANDARDS.
11. FINISHED FLOOR ELEVATIONS OF NEW CONSTRUCTION OF ADJACENT BUILDINGS SHOULD BE A MINIMUM OF 6" ABOVE THE ELEVATION OF THE UPSTREAM SANITARY SEWER MANHOLE.
12. GRAVITY SEWER PIPE & LATERALS SHALL BE PVC PIPE WITH RING-TITE JOINTS (ASTM D-3034-SDR 26) OR APPROVED EQUAL.
13. FINAL LAMPING AND T.V. INSPECTION OF SANITARY GRAVITY SYSTEM TO BE MADE BY CONTRACTOR UPON COMPLETION OF SEWER SYSTEM. MANDREL SHALL BE PULLED THROUGH PIPE PRIOR TO T.V. INSPECTION. A COPY ON DVD OF THE T.V. INSPECTION WITH VOICE-OVER SHALL BE SUBMITTED WITH FINAL AS-BUILTS.
14. ALL AS BUILT MEASUREMENTS & ELEVATIONS TO BE MADE BY A LICENSED LAND SURVEYOR.
15. WARRANTY - ALL MATERIALS & EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE CITY OF FAILURE OF ANY PART OF THE WARRANTED EQUIPMENT OR MATERIALS DURING WARRANTY PERIOD, THE AFFECTED PART, PARTS OR MATERIALS SHALL BE PROMPTLY REPLACED BY THE CONTRACTOR WITH NEW PARTS OR MATERIALS AT NO EXPENSE TO THE CITY. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS IMMEDIATELY AFTER NOTIFICATION, THE CITY MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

REVISED: SEPT-2009	GENERAL NOTES - GRAVITY SEWER SYSTEM	STANDARD DETAIL
ISSUED: SEPT - 2009	CITY OF WEST PALM BEACH ENGINEERING SERVICES DEPT.	GN-6