



**GENERAL NOTES:**

1. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST ASTM C478 SPECIFICATIONS FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS" AND NCDOT.
2. CONCRETE COMPRESSIVE STRENGTH 4,000 PSI MIN.
3. STEEL REINFORCING DESIGNED TO CONFORM TO THE REQUIREMENTS OF ASTM C478 AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR DRAWN WIRE CONFORMING TO THE REQUIREMENTS OF ASTM A82 OR A COMBINATION THEREOF.
4. ADDITIONAL REINFORCING AT OPENINGS.
5. DESIGNED FOR H-20 LOADING.
6. MANHOLE STRUCTURE PIPE PENETRATION TO BE AS PER JOB REQUIREMENTS. PIPE TO BE INSTALLED BY CONTRACTOR BETWEEN DROP STRUCTURE AND MANHOLE STRUCTURE UTILIZING FLEXIBLE BOOT CONNECTORS MEETING THE REQUIREMENTS OF ASTM C923. SEE TYPICAL MANHOLE PIPE CONNECTION DETAIL.
7. CONNECTION PIPE BETWEEN DROP STRUCTURE AND MANHOLE TO BE DUCTILE IRON PIPE OF SAME DIAMETER AS LINE.
8. ALL ENCASED PIPE TO BE PVC IN DROP STRUCTURE.

**24" PIPE DIAMETER  
PRECAST DROP STRUCTURES**