



NOTES:

1. Manhole design conforms to latest ASTM C478 specifications for "Precast Reinforced Concrete Manhole Sections" and NCDOT.
2. Concrete compressive strength 4,000 PSI min.
3. Steel reinforcing design to conform to the requirements of ASTM C478 and shall utilize grade 60 re-bars 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. Design for H-20 loading.
6. Steps shall be steel reinforced copolymer polypropylene and meet the requirements of ASTM C478. See typical step detail.
7. Contractor to adjust to grade as required. 4" or 6" grade rings to be supplied by P.C.M. or to be field adjusted using approved methods by Contractor.
8. Pipe penetration to be as per job requirements. Pipe to be installed by Contractor. See typical manhole pipe connection detail.
9. Cast iron ring and cover to be per specifications, supplied by P.C.M or City.
10. Ring and cover shall be bolted to manhole with 4 bolts in unpaved areas. In paved areas 12" concrete 6" thick around ring and cover.
11. Joints to be sealed with preformed butyl rubber joint sealant meeting requirements of ASTM C990.



TITLE: TYPICAL 4' PRECAST MANHOLE

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SCALE: NTS

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SHEET #: 1 OF 1