4’ DIA DRAIN MANHOLE

24” OR 30” ALTERNATE FLAT TOP AASHTO HS–20 LOADING

8” 24” OR 30” 8”

CONC SECTION 1’, 2’, 2’–6”, 3’, 4’

SEE DETAIL C IF STEPS ARE REQUIRED

SEE DETAIL B TYPICAL JOINT

RISER SECTION 1’, 2’, 3’, 4’

PIPE TO MANHOLE CONNECTIONS SEE DETAIL A1, A2, A3 (SIZE TO SUIT)

BASE SECTION 3’ THRU 6’

DESIGN NOTES:
1. MANUFACTURED TO MEET OR EXCEED: ASTM C–478 & AASHTO M 199 SPECS.
2. CONCRETE = 4,000 PSI. MINIMUM CEMENT PER ASTM C–478 (6.1)
3. REINFORCED STEEL COMFORMS TO LATEST ASTM A 185 SPECIFICATIONS.
   0.12 SQ. IN / LINEAL FT. AND 0.12 SQ. IN (BOTH WAYS) BASE BOTTOM
4. STEEL REINFORCEMENT TO MEET OR EXCEED AASHTO HS–25 LOADING
5. MANHOLE STEPS MEET LATEST OSHA REGULATION 29 CFR1910.27, SECTION 16
   OF ASTM SPECIFICATION C478 AND SECTION 10 OF ASTM SPECIFICATION C497
6. BUTYL RUBBER JOINT SEALANT PER ASTM C–990 & AASHTO M–198
7. WATER PROOFING PER CONTRACT SPCS. AS REQUIRED
8. ONE POUR MONOLITHIC BASE SECTION