



DUCTILE IRON CASTINGS:

1. MANHOLE FRAME AND COVER SHALL BE MANUFACTURED USING SPHEROIDAL OR NODULAR GRAPHITE IRON (DUCTILE IRON) COMPLYING WITH THE REQUIREMENTS SPECIFIED IN ASTM A536-80.
2. ALL CASTINGS SHALL MEET OR EXCEED THE H-20 LOAD REQUIREMENT.
3. ALL CASTINGS WILL BE SUPPLIED WITH A COATING OF BITUMINOUS MATERIAL AND BE FREE FROM CRACKS, HOLES, FOREIGN INCLUSIONS, SCALE, LUMPS, BLISTERS, SANDHOLES, AND OTHER INJURIOUS DEFECTS.
4. THE FRAME SHALL HAVE A MINIMUM OF FOUR BOLT HOLES TO ANCHOR TO THE MANHOLE CASTING.
5. THE FRAME SHALL BE DESIGNED TO ACCEPT LEVELING INSERTS THAT WILL ALLOW RAISING OF THE COVER WITHOUT EXCAVATION. THE LEVELING INSERTS SHALL BE LOCKED INTO PLACE USING CADMIUM-PLATED STEEL BOLTS.
6. AN ANTI-THEFT LOCKING KEY SHALL BE INSTALLED. THE BOLT SHALL BE STAINLESS STEEL WITH A PENTAGON HEAD DESIGN MEASURING 7/8" POINT TO FLAT.
7. THE FRAME AND COVER SHALL BE PAMREX 600 24 INCH AS MANUFACTURED BY TITUS INDUSTRIAL GROUP 877-582-9899 WWW.NEVERLEEK.COM OR APPROVED EQUAL.

SACRAMENTO COUNTY
MUNICIPAL SERVICES AGENCY

**DUCTILE IRON 24"
MANHOLE FRAME & COVER**

DRAWN BY: RAS
SCALE: NONE
DATE: 11/07

7-4C-74

Manly K Snyder
DIRECTOR