

NOTES:

1. THE CAST IRON USED SHALL CONFORM WITH ASTM A-48 CLASS 35B.
2. THE FRAME AND COVER SHALL BE COATED WITH ASPHALTUM OR BITUMINOUS PAINT AFTER TESTING AND INSPECTION.
3. ALL LETTERS SHALL BE FLUSH WITH THE FINISHED SURFACE OF THE COVER.
4. COVERS AND FRAMES SHALL BE MANUFACTURED IN THE UNITED STATES.
5. FOUNDRY IDENTIFYING MARK, HEAT AND DATE SHALL BE CAST ON THE BOTTOM OF THE COVER AND ON THE INSIDE OF THE FRAME.
6. WEIGHT OF FRAME SHALL BE 260 POUNDS. WEIGHT OF COVER SHALL BE 175 POUNDS. ACTUAL WEIGHTS SHALL BE WITHING A RANGE OF 95% TO 110%.
7. THE MANHOLE FRAME AND COVER SHALL BE INSPECTED BY THE ENGINEER PRIOR TO SHIPMENT TO THE JOB SITE. ACCEPTANCE WILL BE INDICATED BY THE AGENCY'S MARK.
8. THE PROOF-LOAD FOR TEST METHOD B OF THE STANDARD SPECIFICATIONS IS 40,700 POUNDS.
9. COVERS FOR MANHOLES SHALL BE PROVIDED WITH SOCKET SET SCREW LOCKING DEVICES. DRILL AND TAP TWO HOLES TO A DEPTH OF ONE INCH AT 90 DEGREES TO PICK HOLE AND INSTALL 3/4" X 3/4" STAINLESS STEEL SOCKET SET SCREWS WITH 3/8" RECESSED HEX HEAD. ALL THREADS SHALL BE N.C.
10. IF SUBJECT TO CONTAINER EQUIPMENT LOADING DESIGN SHALL BE FOR 100 KIP WHEEL LOADS PLUS 25 KIP IMPACT LOADS. NEENAH FOUNDRY R-3493-A OR EQUAL.
11. ALHAMBRA FOUNDRY A-1170 OR EQUAL - H-20 LOADING.

AFTER TESTING AND
DRAFT

24" MANHOLE SHAFT

THE PORT OF LONG BEACH ENGINEERING DIVISION

REVISIONS		MANHOLE FRAME AND COVER	STANDARD PLAN
NO.	DATE		D-17
1			
2			
3			
APPROVED BY: _____		R.E. NO.: _____	DATE: _____
		CHIEF HARBOR ENGINEER	2 OF 4