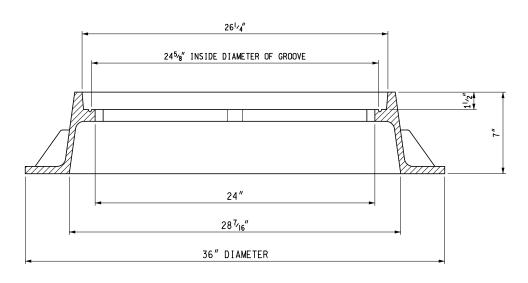


TOP VIEW OF FRAME



FRAME SECTION

EMDOT

PREPARED DESIGN DIVISION DRAWN BY: B.L.T.

CHECKED BY: W.K.P.

DEPARTMENT DIRECTOR

APPROVED BY: .

Mark a Van Fact APPROVED BY: _ DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT

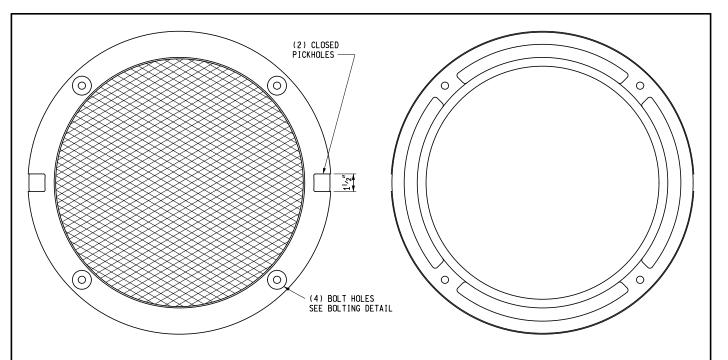
COVER Q FOR USE ON MANHOLES OR SANITARY SEWERS WHERE VENT HOLES ARE NOT DESIRED

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

9-30-2014 F.H.W.A. APPROVAL 3-12-2014 PLAN DATE

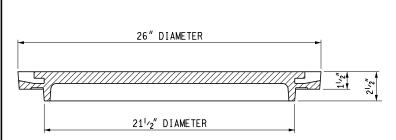
R-18-F

SHEET 1 OF 2

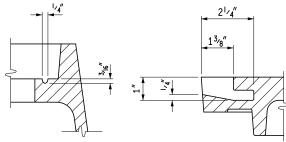


TOP VIEW OF COVER

BOTTOM VIEW OF COVER



COVER SECTION



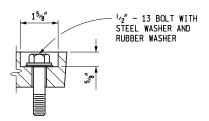
GROOVE DETAIL

'A" DIA. NEOPRENE GASKET

PLACED IN GROOVE

PICKHOLE DETAIL

ALTERNATE CLOSED
PICKHOLES ALLOWED



BOLTING DETAIL

NOTES:

THE CASTINGS SHALL MEET THE REQUIREMENTS OF THE CURRENT STANDARD SPECIFICATION FOR GRAY IRON CASTINGS.

ALL CASTINGS SHALL BE CLEANED BY CURRENT APPROVED BLASTING METHODS.

THE SEATING FACE OF THE LID AND THE SEAT FOR THE SAME ON THE FRAME SHALL BE GROUND OR MACHINED SO THAT THE LID WILL HAVE AN EVEN BEARING ON ITS SEAT TO PREVENT ROCKING OR TILTING.

THE CASTINGS SHALL BE FREE OF POURING FAULTS, BLOW HOLES, CRACKS AND OTHER IMPERFECTIONS. THEY SHALL BE SOUND, TRUE TO FORM AND THICKNESS, CLEAN AND NEATLY FINISHED, AND SHALL BE COATED WITH COAL TAR PITCH VARNISH.

THIS COVER IS DESIGNED TO FIT ON ANY MANHOLE OR ON ANY EXISTING SIMILAR STRUCTURE WHEN SO DESIGNATED ON THE PLANS.

A NON-LOCKING COVER MAY BE USED WHEN APPROVED BY THE ENGINEER

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

COVER Q

FOR USE ON MANHOLES OR SANITARY SEWERS WHERE VENT HOLES ARE NOT DESIRED

9-30-2014	3-12-2014	D_1Q_F	SHEET
F.H.W.A. APPROVAL	PLAN DATE	K-10-1	2 OF 2