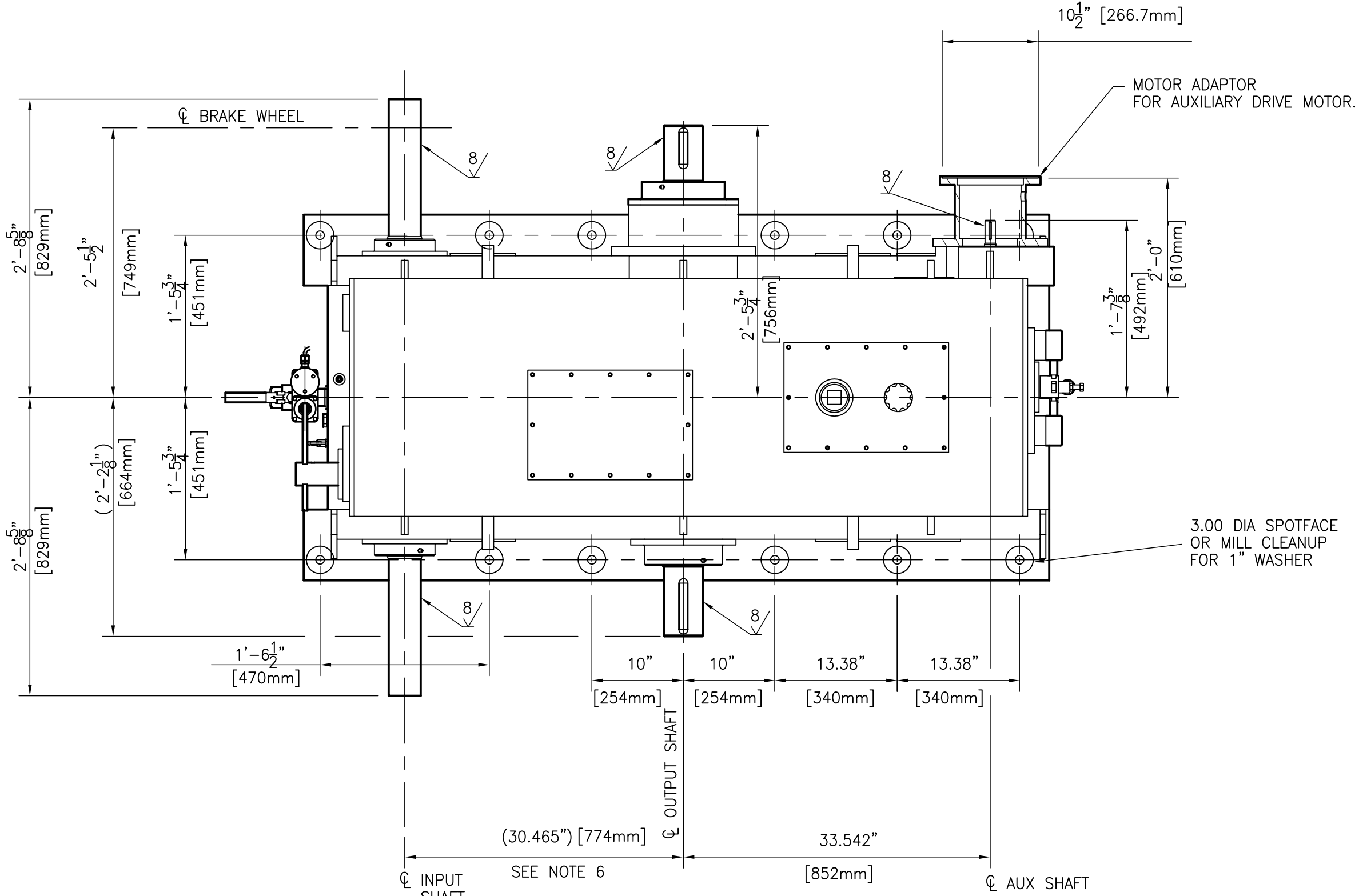
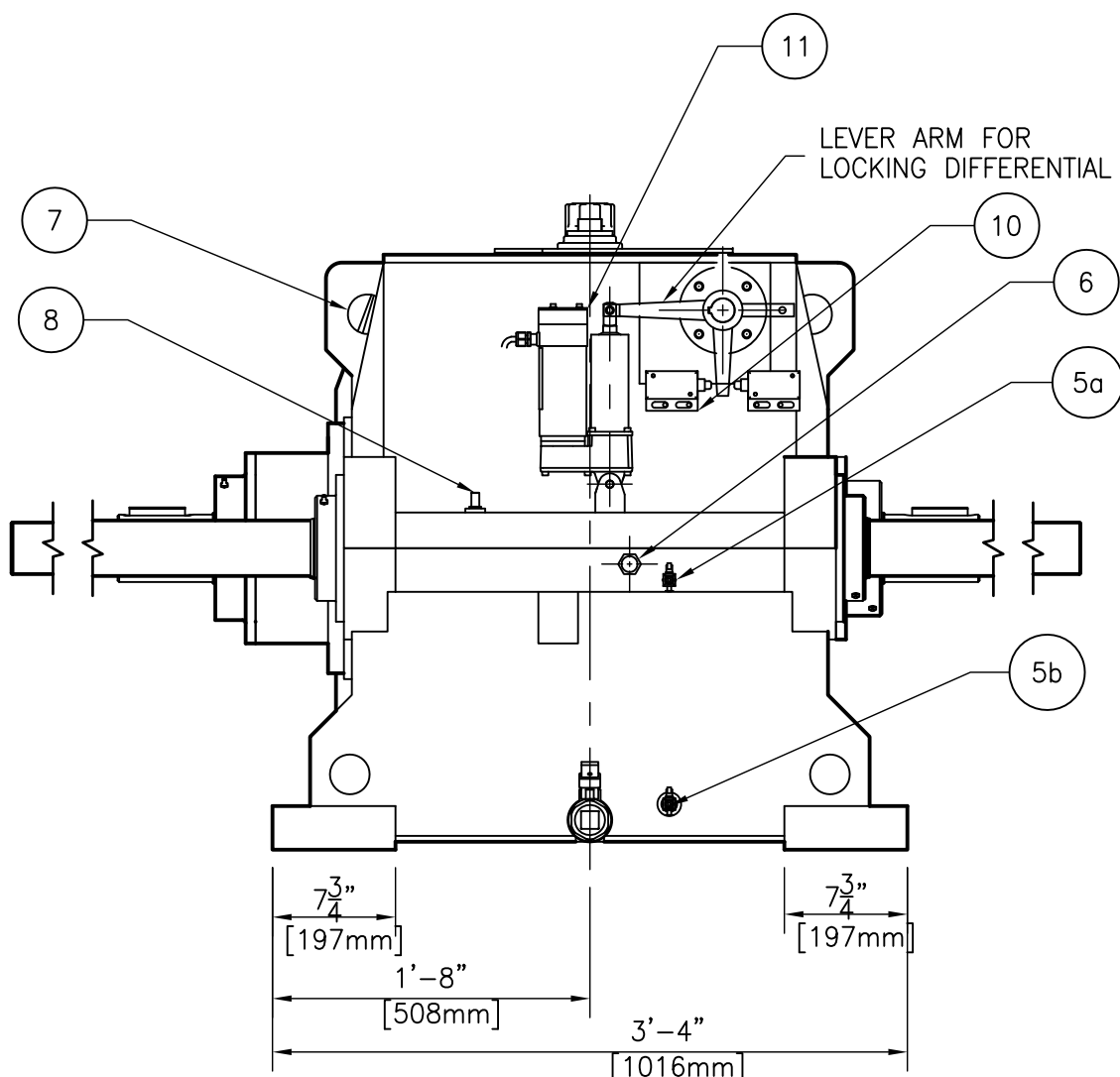


- ① HYGROSCOPIC BREATHER
- ② OIL FILL PORT - 2 1/2 NPT
- ③ BALL VALVE WITH LOCKABLE OPTION (STAINLESS STEEL)
- ④ INSPECTION COVER WITH CORK NEOPRENE GASKET (2)
- ⑤ OIL SAMPLING COCKS
(a) NEAR OIL LEVEL
(b) NEAR FLOOR
- ⑥ OIL LEVEL SIGHT GLASS
- ⑦ LIFTING LUGS (4)
- ⑧ OIL LEVEL DIPSTICK
- ⑨ GREASE FITTING WITH RELIEF 180° -TYP. (5)
- ⑩ LIMIT SWITCH
- ⑪ ELECTRICAL OPERATOR FOR DIFFERENTIAL CLUTCH



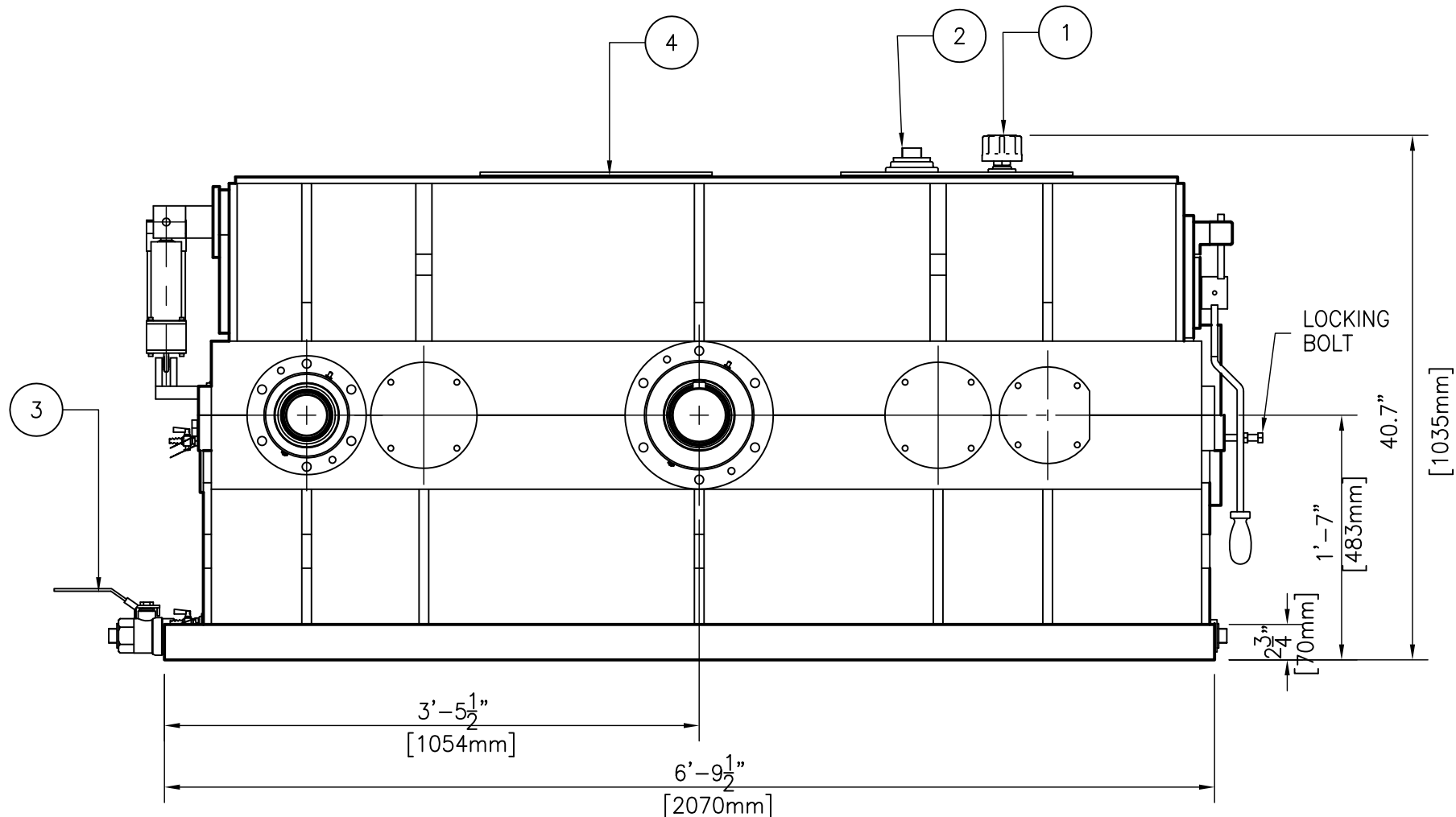
GEARBOX
PLAN

SCALE 1"=1'-0"



GEARBOX
END VIEW

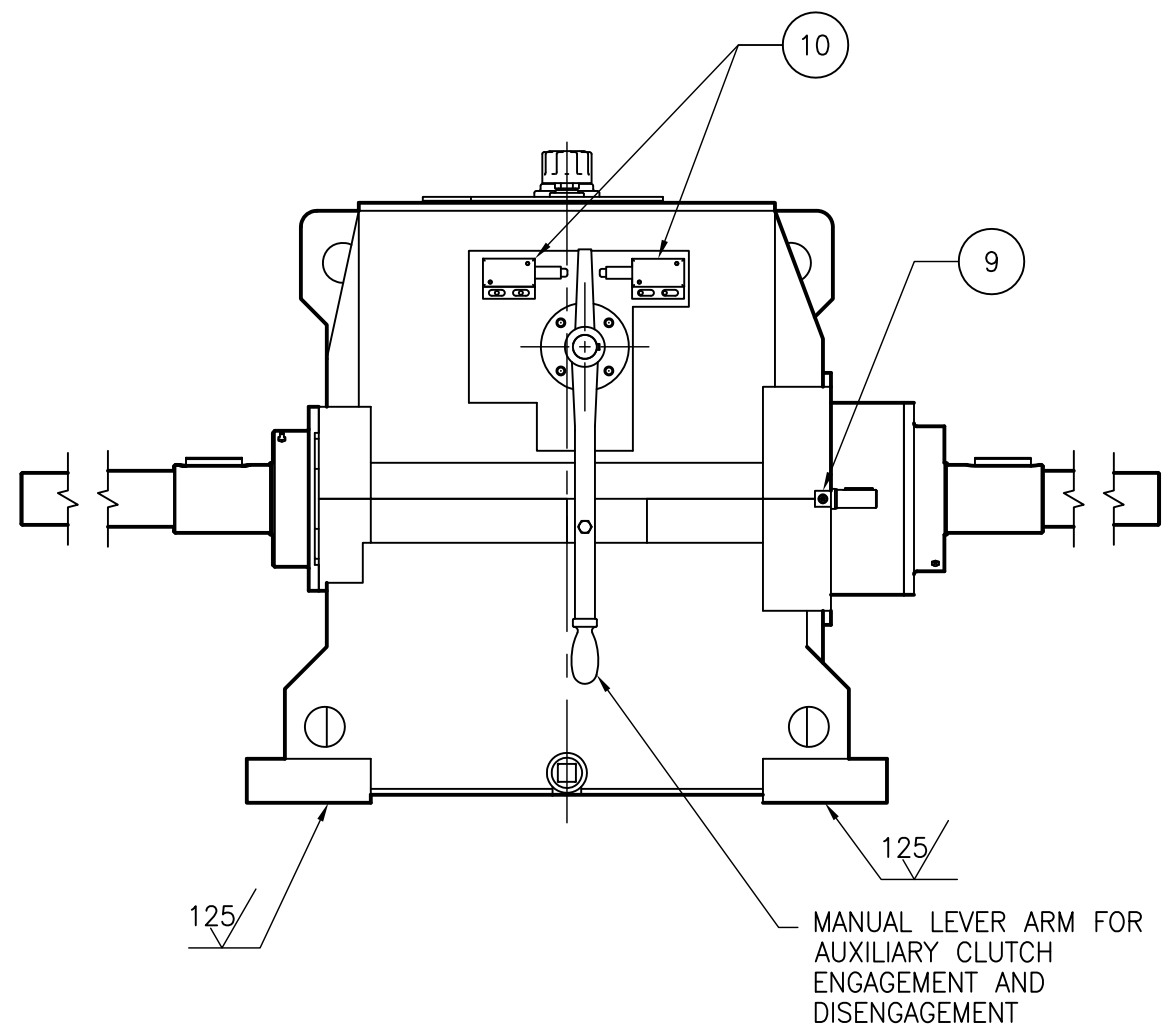
SCALE 1"=1'-0"



GEARBOX
ELEVATION

SCALE 1"=1'-0"

(2-REQUIRED)
(ONE LEFT HAND AND ONE RIGHT HAND)



GEARBOX
REAR VIEW

SCALE 1"=1'-0"

NOTES:

- GEARBOX SHALL HAVE A NAME PLATE RATING OF 150 HP @ 580 RPM AT A SERVICE FACTOR OF 1.0. AT THE MAIN INPUT SHAFT.
- GEARBOX SHALL HAVE A NAME PLATE RATING OF 20 HP @ 1750 RPM AT A SERVICE FACTOR OF 1.0 AT THE AUXILIARY INPUT SHAFT.
- MAIN DRIVE INPUT TO OUTPUT RATIO, 6.227:1
- AUXILIARY DRIVE INPUT TO OUTPUT RATIO, 152.08:1
- DO NOT OPERATE MAIN MOTOR WITH AUXILIARY CLUTCH ENGAGED, DOING SO WILL RESULT IN EXCESSIVE SPEEDS AT THE AUXILIARY INPUT AND MOTOR SHAFTS AND COULD RESULT IN CATASTROPHIC FAILURE.
- MAINTAIN EXISTING SPACING BETWEEN INPUT AND OUTPUT SHAFTS.

Public Works and
Government Services Canada
Architectural and Engineering Services
Ontario Region
Travaux publics et
Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario

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Professional Engineers
Ontario
Temporary Licensee
Name: Michael Elza
Number: 100181046-02
Limitations: Mechanical system design for the Burlington
Canal Bridge in Burlington, Ontario for Public Works and
Government Services Canada

Collaborator: Caryl Ng, P. Eng.
Expiry Date: July 31, 2013
Association of Professional Engineers of Ontario

2013-06-04



06	FOR TENDER	2013-06-04
05	FINAL DESIGN COMPLETION	2013-05-31
04	99% DESIGN COMPLETION	2013-05-31
03	90% DESIGN SUBMITTAL	2013-03-31
02	66% DESIGN SUBMITTAL	2013-02-14
01	33% DESIGN SUBMITTAL	2012-12-10

revision date
Do not scale drawings.
Verify all dimensions and conditions on site and
immediately notify the departmental representative
of all discrepancies.

A	Detail No. No. du détail
B	drawing no. - where detail required dessin no. - où détail exigé
C	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
HAMILTON BURLINGTON CANAL VERTICAL LIFT BRIDGE
REPLACEMENT OF CONTROLS,
DRIVES AND OVERHEAD CABLES

drawing title
titre du dessin
**MECHANICAL EQUIPMENT
GEARBOX DETAILS**

drawn by
dessiné par
J. PEREZ

designed by
conçu par
M. ELZA

approved by
approuvé par
M. VANDEREE

bid
soumission
A. Ghubril

project date
date du projet
2013-05-31

project no.
no. du projet
R.012641.001

drawing no.
dessiné no.
H-07