

M-23-A - HYDRATOR

60800

SPECIFICATIONS

USE SPEC 2-1-B

Type:	Vertical Dished Heads
Nominal Capacity:	4000 Gallons
Nominal Diameter:	6' - 6"
Nominal Height:	17' - 0"
Material:	
Alternative (1)	X Stainless Steel-Type 304 -
Alternative (2)	Steel with 1/4" minimum thickness in lead lining
Alternative (3)	X Stainless Steel-Type 304-L
Corrosion Allowance:	1/16"
Construction:	Welded PVF-1
Drawings:	To be furnished by Fabricator
Operating Pressure:	75 psig.
Operating Temperature:	105° C
Design Pressure & Temperature:	100 psig. at 170° C at top
Location:	Outside of building
Baffles:	
Four (4) removable equally spaced 3/4 area baffles are required to assure maximum residence time of liquid passing through vessel from top to bottom.	
Material of Construction:	Same as vessel
Nuts & Bolts:	Stainless Steel Type 316
Connections:	
Liquid Inlet	One 2"; two 3"
Liquid Outlet	One 4"; one 3"; and one 2" Spare
Liquid Level Indicator	Two 1 1/2" (One Top Head; One Bottom Shell)
Pressure Gauge	One 1 1/2"
Thermometer	One 1 1/2" Bottom Shell
	One 1 1/2" Middle Shell
Safety Valve	One 3"
Sample	One 2"
Thermocouple	One 1 1/2" Bottom Shell
	One 1 1/2" Middle Shell; One 1 1/2" Top Shell
Vent	One 4"; one 2" Spare
Auxiliaries:	
Nameplate	Required
Liquid Level Indicator Clips	Required
20" Manhole	Required
Legs	Required
Mounting Heights	Bottom of Outlet. Nozzle to be 3' - 0" above top of concrete support.
Flanges:	150 lb. ASA

- NOTES:
- 1) A key plan of nozzle location will be furnished by Purchaser prior to fabrication.
 - 2) Drawings prior to fabrication for approval are required.
 - 3) Certified prints are required.
 - 4) Inspection to be at the discretion of Purchaser.

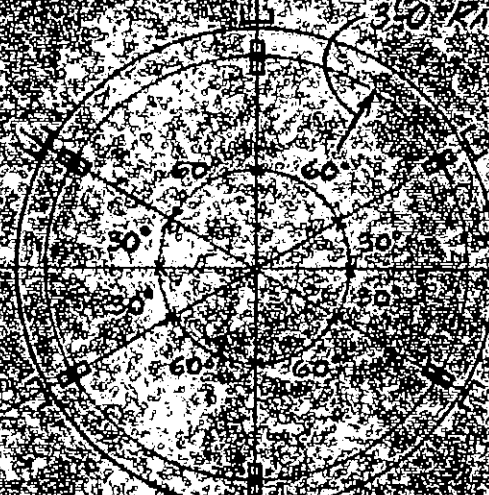
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3'-0" RADIUS

TOP HOLE 1/4" DIA
TOP OF VESSEL

3'-0" RADIUS



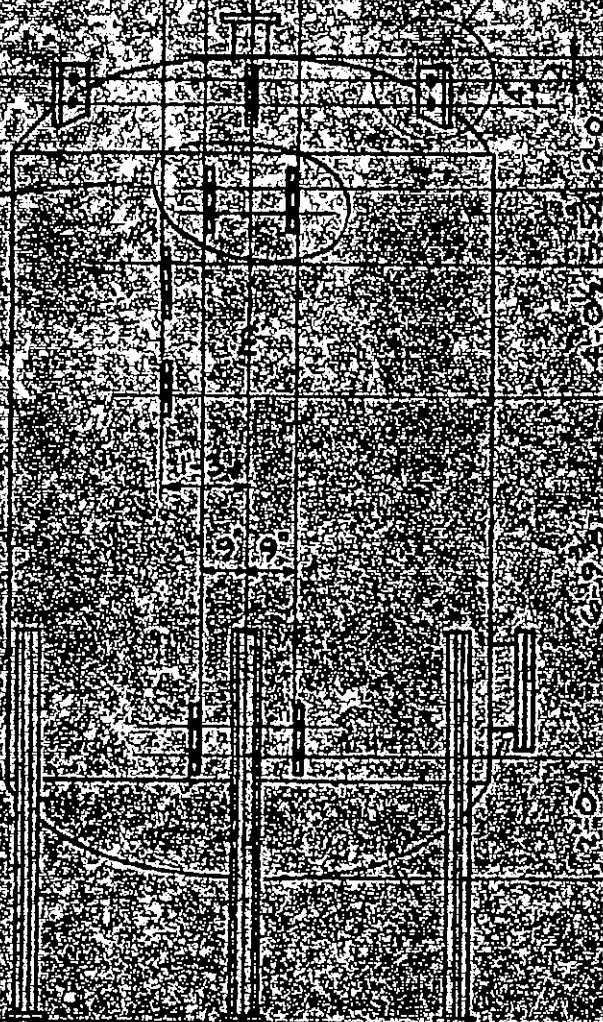
ALL MATERIAL 1/8"
STAINLESS STEEL PLATE
ALL HOLES 1/8" DIA

PLAN

TOP OF VESSEL
(E 165-14)

3'-5 3/8"

REV



TYPICAL ELEV
DISTANCE FOR ALL
LUGS ON VESSEL
UNLESS SHOWN
OTHERWISE

3'-3 3/8"

1'-5 1/2"

1'-5 1/2"

3'-0"

ELEVATION

LUGS FOR M-23A

60800

Certificat
Certificate

No 54725

PROVINCE DE QUEBEC
Ministère du Travail



PROVINCE OF QUEBEC
Department of Labour

Date d'émission
Date of issue

Sept. 13th. 1957.

CERTIFICAT DE FABRICATION CERTIFICATE OF FABRICATION

LOI DES APPAREILS SOUS PRESSION
Chap. 177 et 6 Geo. VI, Chap. 51, S.R.Q., 1941

LES PRESENTES ATTESTENT que l'appareil sous pression
fabriqué (e) dans les ateliers de Davie Shipbuilding Ltd.,
et identifié (e) par le numéro de série ...C-1244-61.....
et les autres étampages suivants:A-484.6.....
et ayant les dimensions suivantes:6'6" x 20'6-5/8".....
a été examiné (e) par un inspecteur dûment qualifié, au cours de
sa fabrication.

**Ce certificat ne doit pas être interprété comme
un permis d'opérer l'appareil. Une fois ledit ap-
pareil convenablement installé et muni des ac-
cessoires exigés par les règlements, il sera ac-
ceptable pour opération à une pression n'excé-
dant pas...100...livres au pouce carré. S. de C.**

Nom de l'acheteur
Name of purchaser ...Carbide Chemicals Co.,.....
Adresse de l'acheteur
Address of purchaser ...10555, St-Leonard's Rd., Montreal E.
.....A. Bouchard.....
Inspecteur — Inspector

PRESSURE VESSELS ACT

Chap. 177 and 6 Geo. VI, Chap. 51, R.S.Q., 1941

THIS IS TO CERTIFY that aHydrator.....
manufactured in the shop of Davie Shipbuilding Limited,
and identified by the serial number ...C-1244-61.....
and other stampings as followsA-484.6.....
and having the following dimensions ...6'6" x 20'6-5/8".....
was inspected during construction by a qualified inspector.

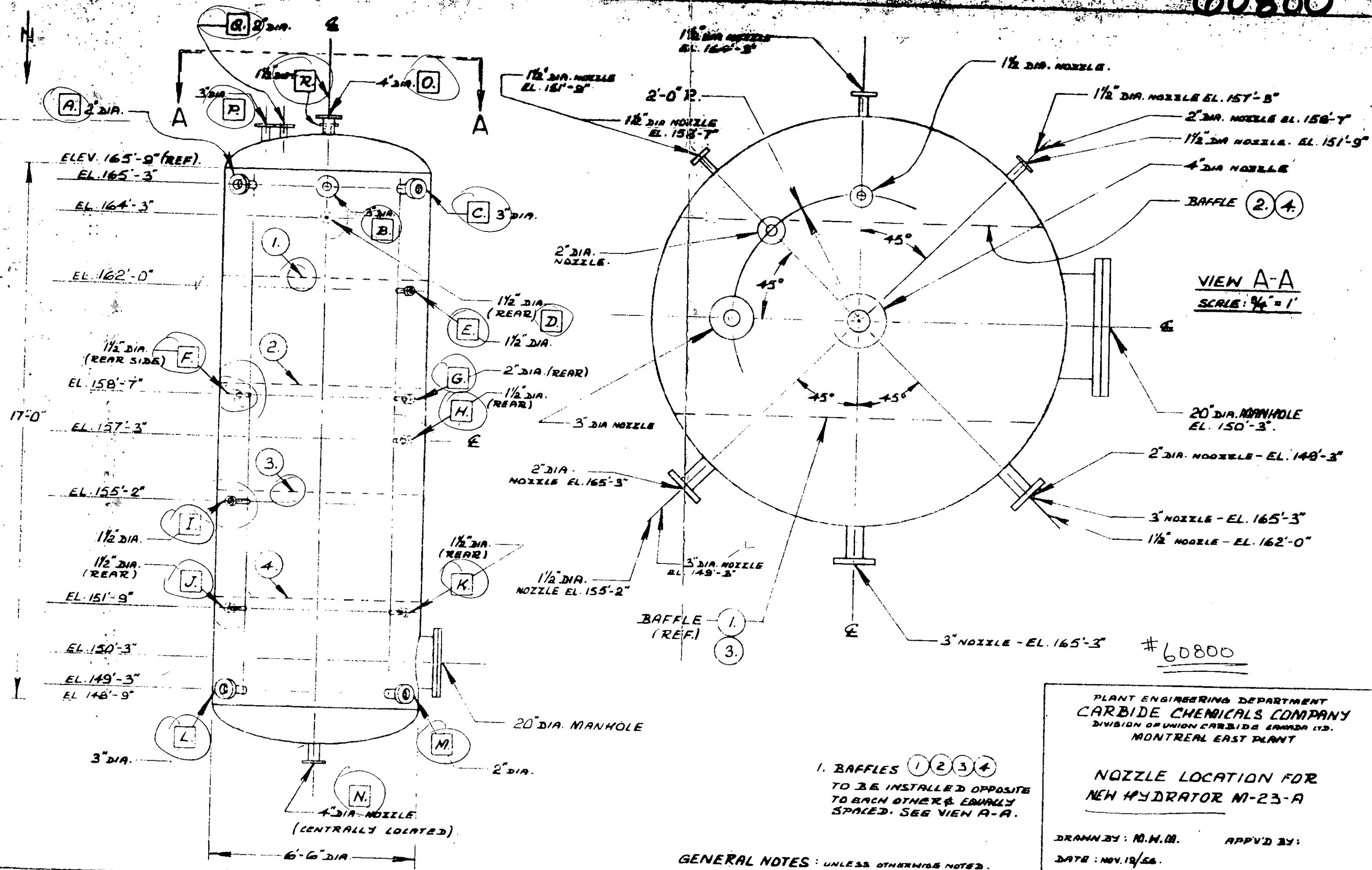
**This certificate shall not be construed as appro-
val to operate the vessel. When the said vessel
has been properly installed and equipped with
appliances as required by the regulations, it will
be acceptable for operation at a pressure not
exceeding...100...lbs per square inch. H. S.**

Nom de l'usager ou propriétaire
Name of user or owner ...Carbide Chemicals Co. Limited,..
Adresse de l'usager ou propriétaire
Address of user or owner 10555, St-Leonard's Rd, Montreal.
.....G. LaBrousse.....
Inspecteur-en-Chef — Chief Inspector

AVIS. Ce certificat doit être affiché dans la salle des bouilloires ou
engins.

NOTICE. — This certificate must be posted in the boiler or
machinery room.

60800



PLANT ENGINEERING DEPARTMENT
CARBIDE CHEMICALS COMPANY
 DIVISION OF UNION CARBIDE CANADA LTD.
 MONTREAL EAST PLANT

**NOZZLE LOCATION FOR
 NEW HYDRATOR M-23-A**

DRAWN BY: M.H.M. APP'D BY:
 DATE: NOV. 12/56.
 SCALE: 3/8" = 1" AND NOTED. MSK-C-10009