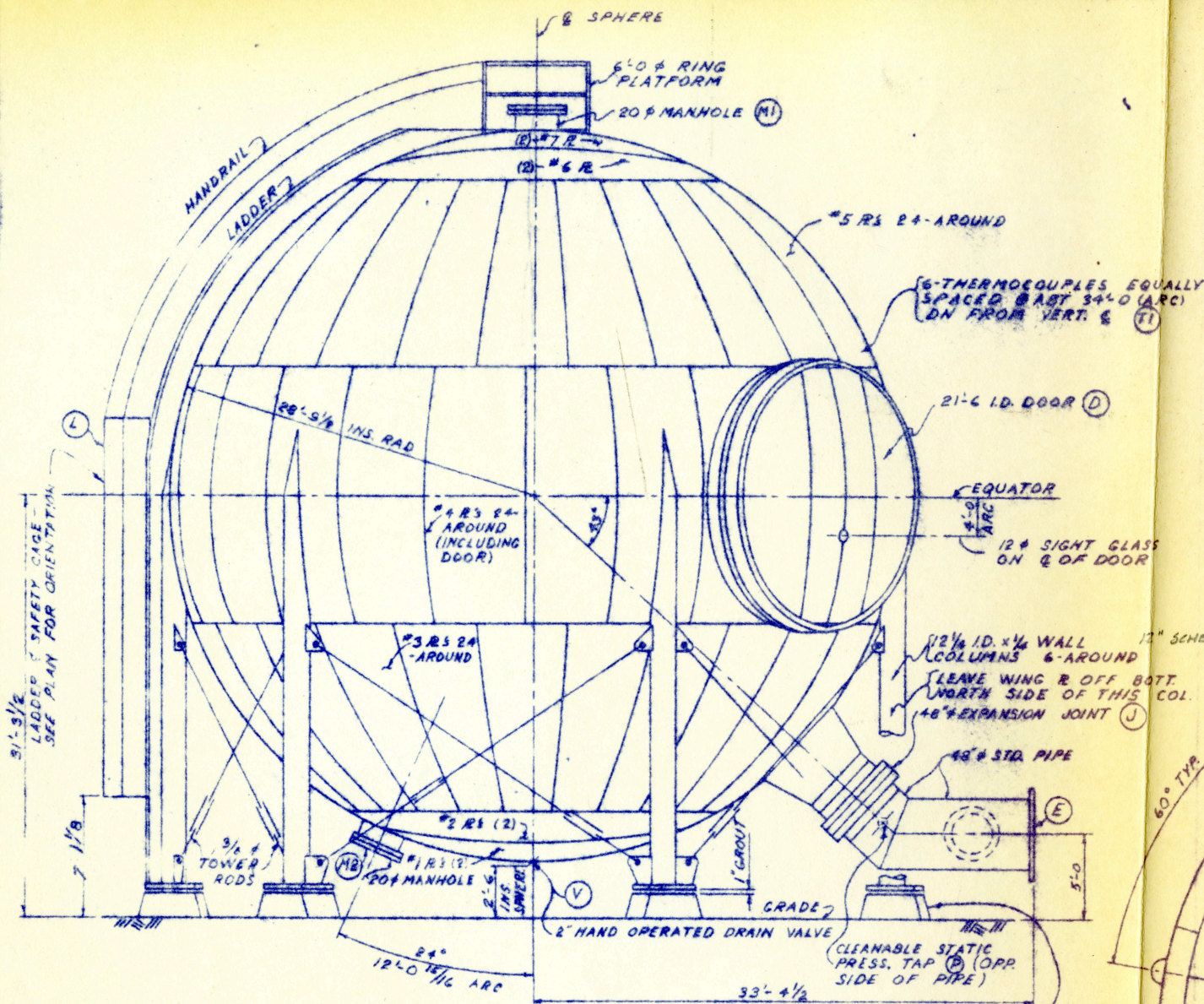
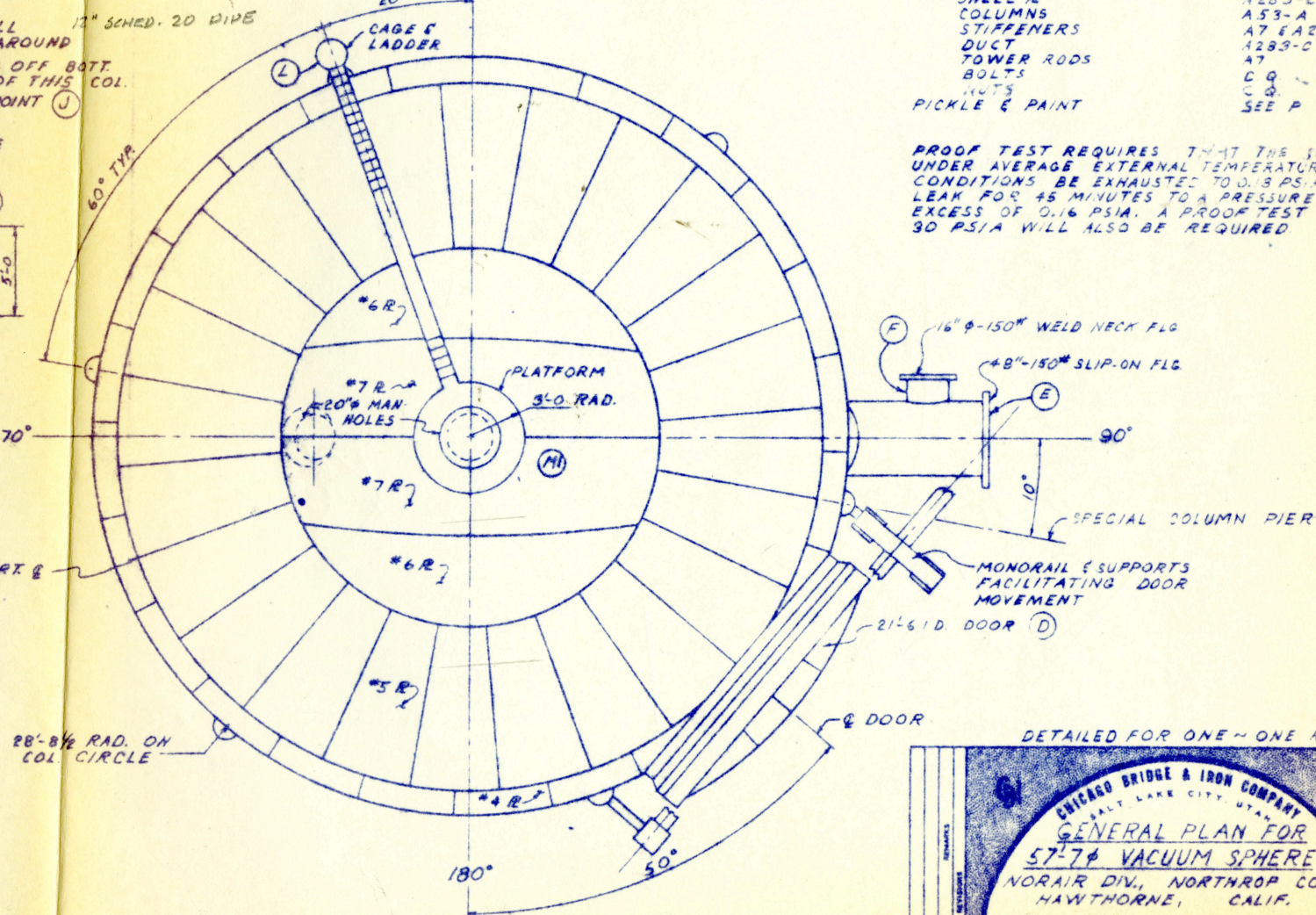




HWT. VACUUM SPHERE



SPHERE PATENT NOS.
DESIGNED UNDER ONE OR MORE OF THE
FOLLOWING UNITED STATES PATENTS:
2,393,964 2,523,274 2,668,607
2,417,053 2,544,651 2,761,467
2,427,676 2,601,313
OTHER PATENTS PENDING.
ALSO PATENTED IN FOREIGN COUNTRIES.

LIST OF APPURTENANCES		
NO. REQ'D	MK	DESCRIPTION
1	D	21'-6" I.D. DOOR
2	M1/M2	20" MANHOLES
1	L	LADDER W/ HANDRAIL & CAGE
1	J	48" EXPANSION JOINT
1	V	2" DRAIN VALVE
1	E	6" TO 4" ENTRANCE DUCT
1	P	STATIC PRESSURE TAP
6	T1	0° TO 800°F THERMOCOUPLES
1	F	16" 150" VACUUM PUMP ATTACHMENT FLANGE

GENERAL NOTES:

DESIGN
ERECTION
CAPACITY
SPECIFICATIONS
DESIGN PRESSURE
DESIGN TEMPERATURE
EARTHQUAKE
X-RAY
JOINT EFFICIENCY
SERVICE
WORKING PRESSURE
WORKING TEMPERATURE
STEEL

CB&I CO.
CB&I CO.
100,000 CU. FT.
CB&I 2 CUST.
0 TO 30 PSIA
200°F
20%
SPOT
95%
VACUUM
0 TO 15 PSIA
150°F

SHELL R
COLUMNS
STIFFENERS
DUCT
TOWER RODS
BOLTS
NUTS
PICKLE & PAINT

A283-C
A53-A
A7 E283-C
A283-C
A7
C Q
C Q
SEE P SHEET

PROOF TEST REQUIRES THAT THE SPHERE UNDER AVERAGE EXTERNAL TEMPERATURE CONDITIONS BE EXHAUSTED TO 0.13 PSIA & NOT LEAK FOR 45 MINUTES TO A PRESSURE IN EXCESS OF 0.16 PSIA. A PROOF TEST OF 30 PSIA WILL ALSO BE REQUIRED.

DETAILED FOR ONE-ONE REQ'D

CHICAGO BRIDGE & IRON COMPANY
SALT LAKE CITY, UTAH
GENERAL PLAN FOR
57-74 VACUUM SPHERE
NORAIR DIV., NORTHROP CORP.
HAWTHORNE, CALIF.

PURCHASER'S NO. 214-19685F CONTRACT NO.
DRAWN BY M.P.B. DATE 8-2-61 8-4/70
CHECKED BY A.C.B. DATE 8-2-61
DESIGN ENGR D.R. LOWE DWS NO. 1 REV

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