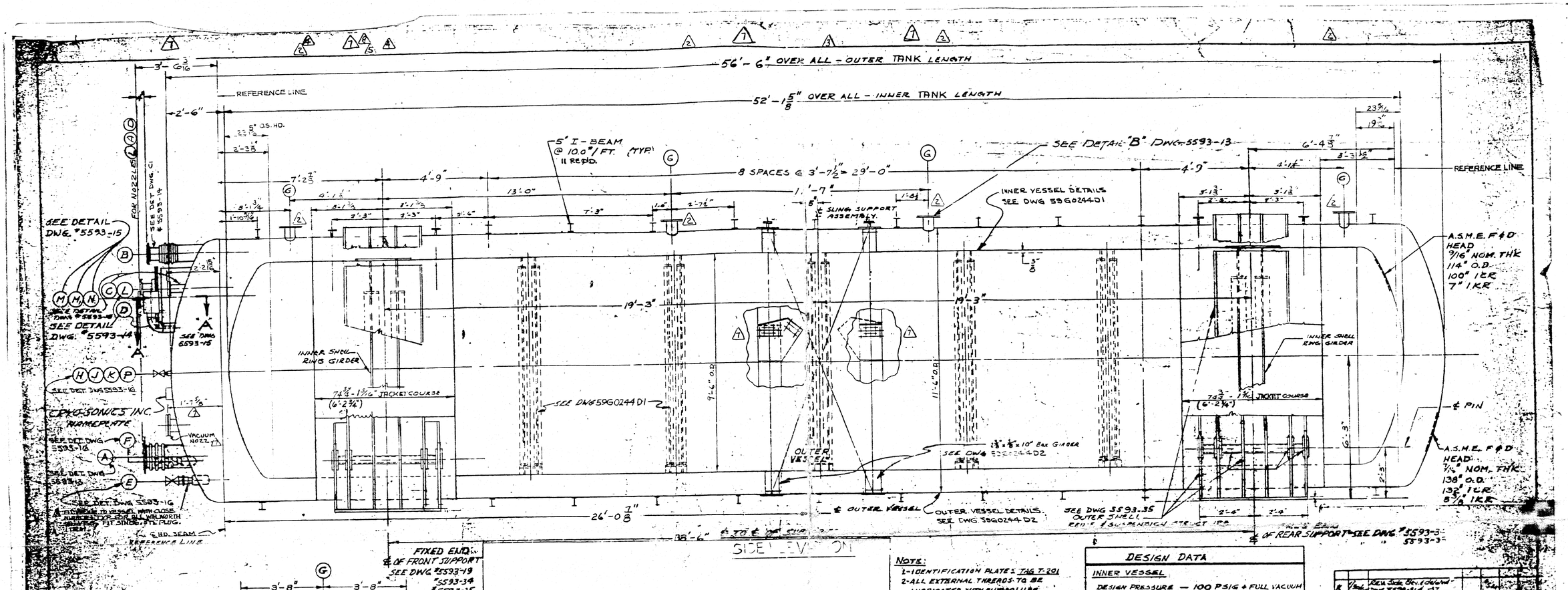

NOTE:
1-IDENTIFICATION PLATE: TAG T-201
2-ALL EXTERNAL THREADS TO BE LUBRICATED WITH RUBBOLUBE.
3-ALL "SOV" VALVES SHALL BE MOUNTED WITH "FCV" VALVES.

VACUUM SYSTEM VALVES FURN. WITH VESSEL

VALVE	TYPE
SV-305	3" FLGD
CV-701	3" SCRD
FCV-701	2" SCRD
CV-750	3/4" SCRD

DESIGN DATA

INNER VESSEL

DESIGN PRESSURE	— 100 PSIG & FULL VACUUM
DESIGN TEMPERATURE	— 100° F TO -320° F
CORROSION ALLOWANCE	— NIL
HYDROTEST PRESSURE	— 170.0 PSIG.
RADIOGRAPH	— 100 %
STRESS RELIEF	— NONE
JOINT EFFICIENCY	
SHELL	— 100%
HEADS	— 100 %
A.S.M.E. CODE STAMP & DATA	— REQD

OUTER VESSEL

DESIGN PRESSURE	— FULL VACUUM
DESIGN TEMPERATURE	— AMBIENT
CORROSION ALLOWANCE	— NIL (AS DEFINED IN SPECS)
RADIOGRAPH	— SPOT
STRESS RELIEF	— NONE
JOINT EFFICIENCY	
SHELL	— 85%
HEADS	— 100%
A.S.M.E. CODE CONSTRUCTION	NO STAMP

NOZZLE SCHEDULE

LINE NO.	VALVE FURN. WITH TANK	TYPE	CONN.	SIZE	TYPE	MATERIAL	SERVICE
2	—	—	A	10"	150# FLG. R.F.	STN. STL.	FILL & DISCHARGE
3	—	—	B	6"	150# FLG. R.F.	STN. STL.	PRESS. INNER SHELL PRESS. VENT
704	# SEE TABULATION ABOVE		C	3"	150# FLG. R.F.	STEEL	VACUUM & RELIEF
3	SV-307	2" FLGD	D	4"	150# FLG. R.F.	STEEL	OUTER SHELL PRESS VENT
—	CV-312	1/2" SCRD	E	1/2" I.P.S.	3/4" O.D. TUBE x .238 WALL	STN. STL.	EMPTY LIQUID LINE
—	CV-313	1/2" SCRD	F	1/2" I.P.S.	3/4" O.D. TUBE x .035 WALL	STN. STL.	FULL LIQUID LINE
—	—	—	G	6"	SCH. 40	STEEL	HAND HOLES (CAPPED)
—	CV-314	1/4" SCRD	H	1/2" I.P.S.	3/4" O.D. TUBE x .035 WALL	STN. STL.	LIQUID LEVEL - BOTTOM
—	CV-704	1/2" SCRD	J	1/2" I.P.S.	3000# CPLG. R.S.	STEEL	VACUUM GAUGE - ANNULUS
—	CV-315	1/2" SCRD	K	1/2" I.P.S.	3000# CPLG. R.S.	STN. STL.	LIQUID LEVEL - TOP
—	—	—	L	6"	150# FLG. R.F.	STN. STL.	RETURN WITH BLIND FLG.
—	—	—	M	—	DWG 5593-15	SEE DETAIL	MANHOLE - OUTER VESSEL
—	—	—	N	16" DIA.	DWG 5593-15	SEE DETAIL	MANHOLE - INNER VESSEL
—	SV-320	1/2" SCRD	P	1/2" I.P.S.	3000# CPLG. R.S.	STEEL	BELLOWS RELIEF
—	CV-750	1/2" SCRD	P	1/2" I.P.S.	3/8" O.D. TUBE x .035 WALL	STN. STL.	PRESSURE GAUGE (INNER VESSEL)

REV.	DATE	REVISION	CO. ORD.	BY	CHK'D
R	9/24/74	Data Scale Brk. Changed			
J	10/2/74	Shell SS304L-S.A. -37 Replaced SA-516 Gr. 70			
H	9/24/74	Added Data for Inner Shell			
G	9/24/74	Added Inner Shell Girder			
F	7/24/74	Revised Data			
E	7/23/74	Revised Dwg.			
D	5/29/74	Revised Dwg. Per Struthers Wells Corp. Dwg.			
C	5/17/74	Revised Dwg.			
B	5/14/74	Dwg. to Comply w/Change B			
A	5/13/74	Rev. Location Inner Shell Girder			

THIS PRINT IS NOT TO BE USED FOR FABRICATION UNLESS THIS CERTIFICATION IS SIGNED

By _____

Date _____

ISSUED FOR	DATE	DATE	DATE	DATE	DATE	DATE	DATE
PROGRESS							
APPROVAL							
QUOTATION							

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STRUTHERS WELLS CORP.
CRYO-SONICS, INC.
- JOINT VENTURE FOR COMPANY -

SCALE	1/4"=1'-0"	APPROVED	
DRAWN	J.S.	CHIEF DR.	
CHECKED		ENGINEER	
DATE	2-5-74		

TITLE: PROPELLANT TERMINAL PLS 26,500 GAL. HIGH STORAGE TANK T-201 GENERAL ARR'M. & DETAILS

JOB # 5593
ENG. 25-066-51-73

DRAWING NO. 5593-12 X

ORD. 59G0244 X

Enclosure 4