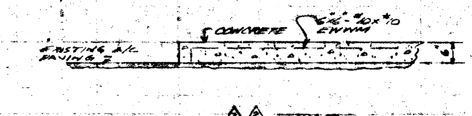
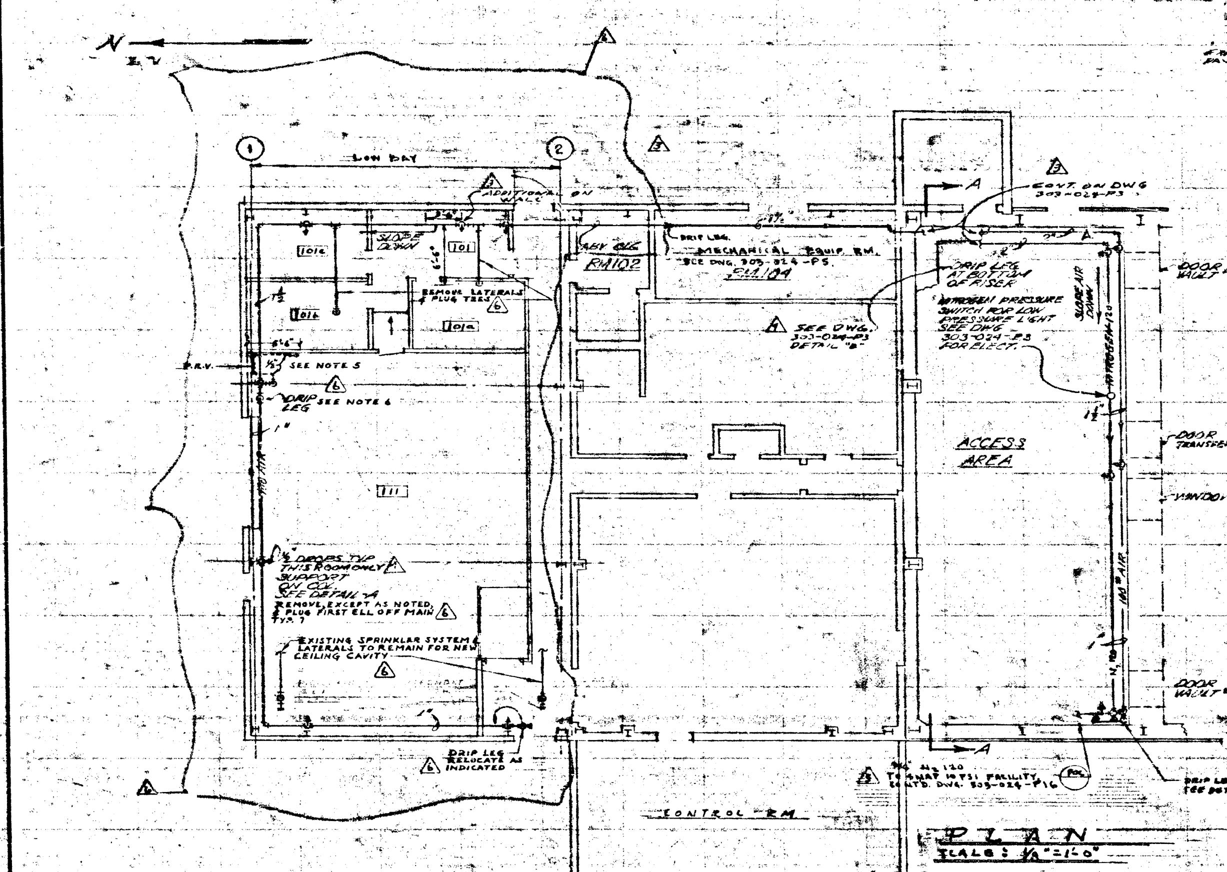
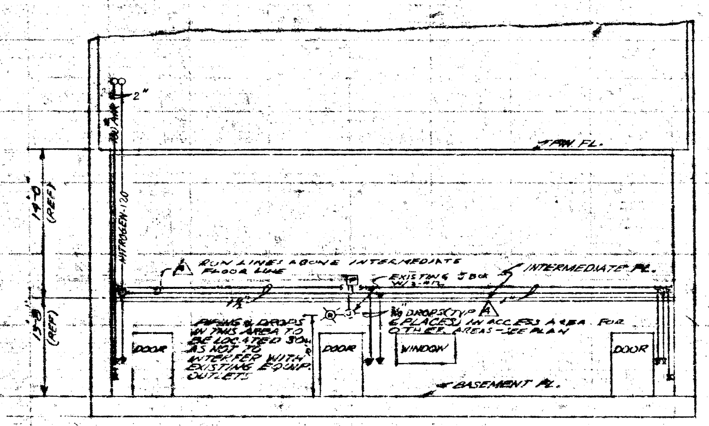
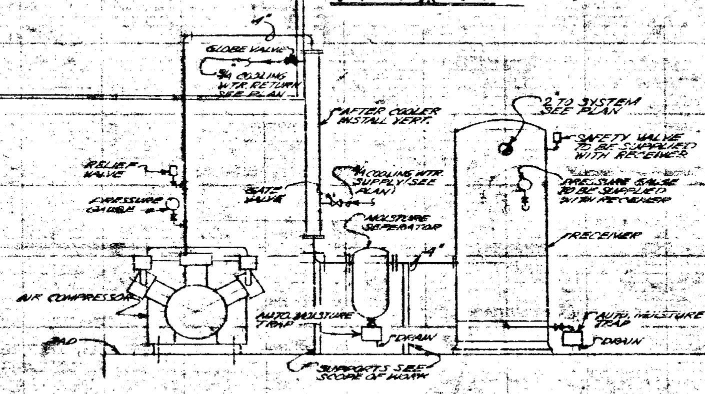
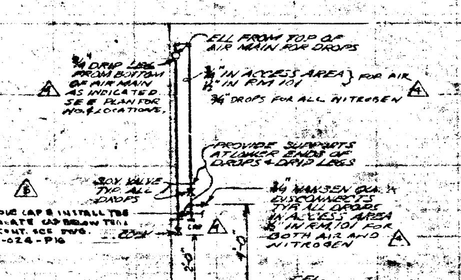
AS BUILT	SYM	DESCRIPTION	DATE	SIGNATURE
	1	RELOCATED COMP. PAD, ADDED N.T.C., CLEANING NOTE	9/9/60	
	2	CHANGED COMP. PAD DIM., CHANGED N.T.C. TO I.S. REV. N₂ BOTTLE RACK AND CHANGED NOTE	9/27/60	
	3	RELOCATED COMPRESSOR & NITROGEN MANIFOLD SEE 303-024-P3, DELETE CONC. PAD, ADDED 2 ADDITIONAL DRIPS	11/1/60	
	4	ADDED END CAP DETAIL "A", REVISED NOTES AS INDICATED	12/1/60	
	5	EXTENDED NITROGEN & AIR SERVICE TO SNAP 10 FSI FACIL. TW.R. 32,222	6/18/62	DEX.
11/8/64 H.S.	6	REMOVED & RELOCATED AIR DROPS & DRIP LEGS IN RMS. 101, 101a-c & 111. TWR. 53039	8/20/64	DEX 3073











DETAIL-A
TYP. AIR DROPS

NO SCALE

NOTE: NITROGEN DROPS SIMILAR EXCEPT OMIT DRIP LEG & DROP OUT OF BOTTOM OF HEADER

MATERIAL

PIPE-AIR & N₂ - SCH 40 BLACK STL WITH M.I. BLACK, SCREWED, FITTINGS - CW SAME BUT GALV

NITROGEN - TYPE "K" HEAVY COPPER TUBING WITH SIL-FOS; TYPE WROUGHT COPPER FITTINGS

VALVES - AIR - WALWORTH #95 WITH MEDIUM HARD DISK SUITABLE FOR AIR
RELIEF - CHAS. M. BAILEY
NITROGEN - DIAPHRAGM, HILLS-MC CANNA SUITABLE FOR 160 PSI NITROGEN
COCK - CRANE # 700 P.
DISCONNECTS - HANSEN "3RL SERIES" 3-R3U ¾" FEMALE PT. 3RL SERIES # 3-R26 ½" FEMALE PT.
GATE - CRANE # 438
GLOBE - CRANE # 7

AIR COMPRESSOR - 2 STAGE AIR OR SELF CONTAINED WATER COOLED "V" TYPE FLANGE MOUNTED TO 40 H.P. DRIP PROOF WEATHER PROTECTED 480V 3∅ 60~ MOTOR. UNIT TO BE MOUNTED ON STRUCTURAL STL SUB-BASE. COMPRESSOR SHALL DELIVER 150 CFM MIN (MEASURED AT STD INTAKE CONDITIONS) AGAINST A MIN. OF 110 PSIG DISCHARGE PRESSURE. COMPRESSOR TO BE COMPLETE WITH THE FOLLOWING. SIMILAR TO GARDNER-DENVER WBC-942

1. FORCE-FEED & COOLED LUB. SYSTEM WITH OIL PRESSURE SAFETY SHUT DOWN DEVICE
2. OIL PRESSURE, TERMINAL AIR PRESSURE GAUGES
3. OIL-BATH FILTER SILENCER
4. DUAL LOAD CONTROL SYSTEM (SIMILAR TO GARDNER-DENVER DUOMATIC HD-24)
5. AFTERCOOLER TO BE VERT. INSTALLED, & EQUIPED WITH SEPARATOR, AUTO. CONDENSATE TRAP.
6. RECEIVER 36" X 96" ASME ASME CERTIFIED WITH DRAIN, & SCF INTAKE PRESSURE GAUGE, SAFETY VALVE & AUTO. CONDENSATE TRAP. 2" MIN. SCREWED DISCHARGE CONNECTION.
7. HIGH TEMP. SHUT DOWN SWITCH (IF WTR COOLED)

PRESSURE SWITCH - MERCOID TYPE 0-150 RANGE SET FOR 80 PSI

SCOPE OF WORK

THE BUILDER SHALL SUPPLY & INSTALL ALL EQUIP & MATERIAL AS SHOWN OR LISTED UNDER MATERIAL ON THIS DWG. ANY ADDITIONAL MATERIAL OR CONNECTIONS REQ'D BY THE EQUIP. TO BE FURNISHED SHALL BE DONE BY THE BUILDER. THE BUILDER SHALL PROVIDE ADEQUATE SUPPORT FOR ALL PIPING & EQUIP. TO THE SATISFACTION OF A.I.

(1) THE NITROGEN BOTTLE RACKS & MANIFOLD TO BE SUPPLIED BY BUILDER

(2) THE BUILDER SHALL PROVIDE A DIAPH. VALVE AT MANIFOLD LOCATION

THE COMPRESSED AIR & NITROGEN SYSTEMS SHALL BE TESTED WITH COMP AIR AT 250 PSIG FOR A MIN. OF 4 HRS & TESTED FOR LEAKS WITH SOAP SUDS. ALL LEAKS DETECTED SHALL BE REPAIRED & THE SYSTEMS RETESTED. NO CAULKING OF JOINTS SHALL BE ALLOWED.

PAINTING OF PIPING & EQUIP. SHALL BE AS FOLLOWS PAINT COLOR "G" AS PER CONTAINER CORP. OF AMERICA'S COLOR HARMONY MANUAL.
COLOR - DARK GRAY
TYPE - HEAVY DUTY ENAMEL
PIPE SHALL BE COLOR CODED AS FOLLOWS "C" COLOR GREEN SEE A.I. PLANT ENG. MANUAL SECT. 5.401 FOR METHOD OF COLOR CODING.
ALL PIPE SHALL BE LABELED WITH ITS SERVICE

(1) CLEANING - BEFORE ERECTION NITROGEN PIPING, VALVES & FITTINGS SHALL BE THOROUGHLY CLEANED INTERNALLY OF OIL, GREASE OR OTHER CONTAM. MATTER BY WASHING IN CARBON TETRACHLORIDE. THIS SHALL BE DONE IMMEDIATELY PRIOR TO ASSY.

NOTES

1. PRESSURE RELIEF VALVE SHALL DISCHARGE IN DIRECTION OF BLDG.
2. BUILDER SHALL PROVIDE GUARDS FOR ANY MOVING PART OF COMPRESSOR.
3. POST SIGN AT COMPRESSOR - "WARNING - AUTOMATIC START" PER INDUSTRIAL SAFETY ORDERS SECTION 3281 MIN 1" LETTERS
4. (3) (2) EXTEND DOWNSPOUT THRU CONC. PAD TO EDGE OF PAD.
5. (6) RELOCATE DROP BEHIND NEW FURRED-IN WALL SECTION. COME THRU WALL JUST ABOVE EXISTING METAL WAINSCOTING & EXTEND AS SHOWN. INSTALL 100-10 P.S.I.G. P.R.V. RELOCATE EXISTING S.O.V., DISCONNECT & HOSE TO END OF LINE.
6. (6) RELOCATE LEG BEHIND NEW FURRED-IN WALL SECTION. COME THRU WALL JUST ABOVE METAL WAINSCOTING & TERMINATE WITH A SALVAGED, PLUGGED S.O.V. 2'-0" ABOVE FLOOR.

JIR 42286

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BLDG. #024
SANTA SUSANA FACILITY
COMPRESSED AIR & NITROGEN SYSTEM

DRAWN	[illegible]	DWG. SIZE	D	303-024-P1
CHECKED	[illegible]	SCALE	NOTED	SHEET NO. 2 OF 2
ENGINEER	[illegible]			
APPROVED	[illegible]			

REDUCED DRAWING