Unclassified

SCHEDULE OF IN-LINE CIRCULATING PUMP

SYMBOL	MANUFACTURER	MODEL NUMBER	GPM	FT. HEAD	HP	VOLTAGE	RPM	REMARKS
P-1	GOULD	3996-ST-1½×2-6	40	30	1.0	208V/3φ/60Hz	1750	SEE DS-CEC-15728-A

SCHEDULE OF HEAT EXCHANGER

SYMBOL	MANUFACTURER	MODEL NUMBER	TYPE	STEAM PSIG	WATER TEMP IN	WATER TEMP OUT	GPM	P.D.	REMARKS
HE-1	BELL & GOSSETT	SU-62-4	TUBE IN SHELL	30	160°	190°	40	2.92	ASME RATED

SCHEDULE OF HOT WATER HEATING COILS

SYMBOL	MANUFACTURER	MODEL NUMBER	SIZE	CFM	ROWS	№ TUBES	WATER TEMP IN	WATER TEMP OUT	GPM	BTUH	REMARKS
HC-1	CARRIER	28SS	27×10×4	615	2	6	190°	83.75°	0.5	27,346	
HC-2	CARRIER	28SS	27×10×4	850	2	6	190°	98.1°	0.9	37,795	
HC-3	CARRIER	28SS	39×13×4	1830	2	8	190°	88.4°	1.7	81,370	
NW ZONE	TRANE	4WPF	SEE NOTE	5900	4	15	115°	103.0°	34.5	204,800	2 COILS REQ'D.

NOTE:
NW ZONE COIL SIZE SHALL BE 49⅜ × 25½ × 9½. TWO (2) COILS ARE REQUIRED. DATA GIVEN ABOVE IS FOR ONE (1) COIL.

SCHEDULE OF GRILLES & DIFFUSERS

SYMBOL	MANUFACTURER	MODEL	SIZE	TYPE	CFM	S.P.	THROW	NC LEVEL	MOUNTING	VOLUME DAMPER W/LOCK YES	VOLUME DAMPER W/LOCK NO
G-1	ANEMOSTAT	AL-10	14"×4"	LOUVER	200	.05	2-WAY	25	SILL	×	

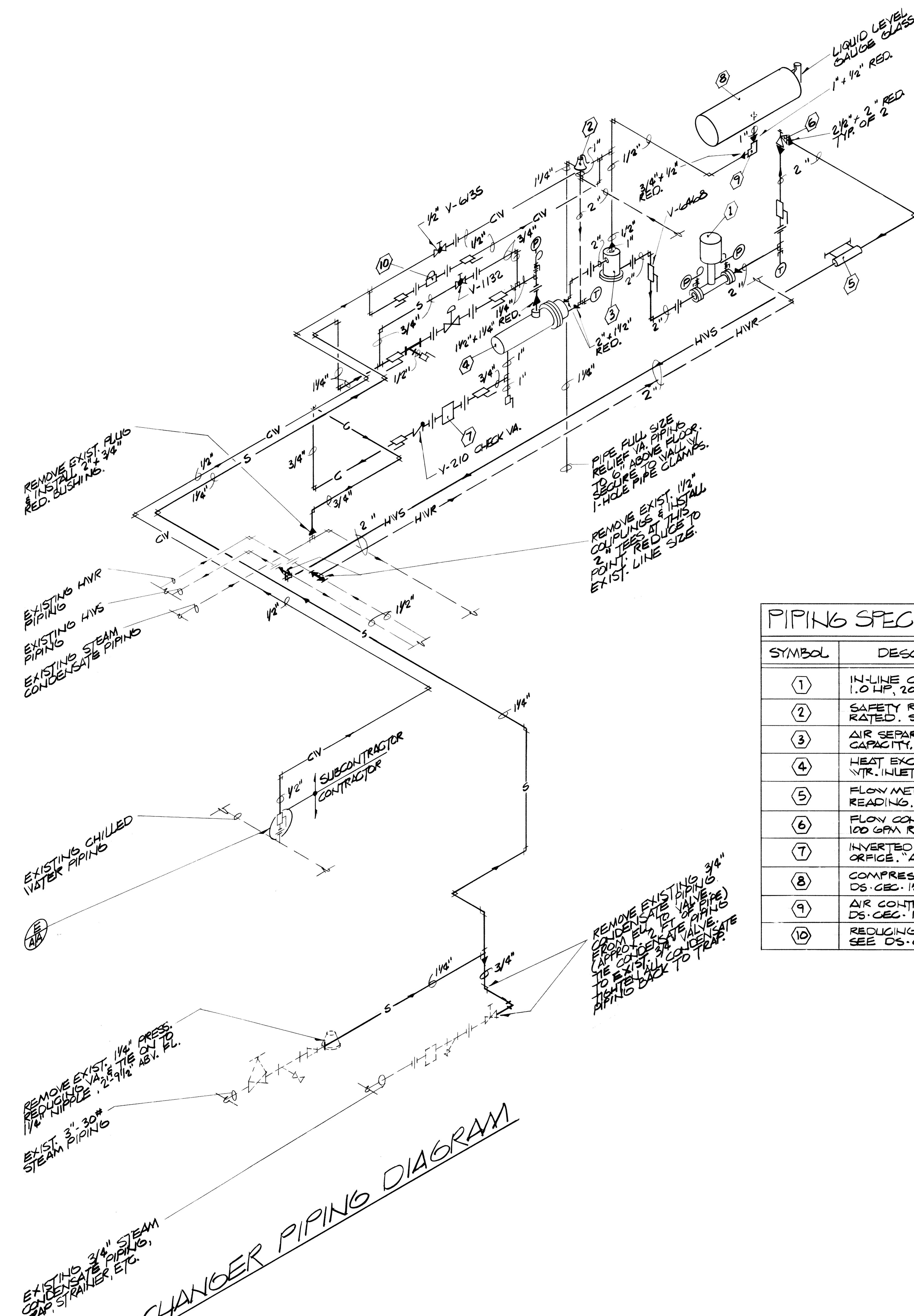
PIPING SYSTEM DATA

DESIGN PRESSURE – PSIG "A"
DESIGN TEMPERATURE – °F "B"
TEST PRESSURE – PSIG "C"
TYPE PRESSURE TEST:
☐ HYDROTEST ☐ PNEUMATIC
☒ OTHER (SPECIFY) SEE LEGEND
RELIEF CAPACITY – CFM —
RELIEF SETTING – PSIG "D"

APPROVAL: DATE
MECH. ENG'G. H.P. Colbert 1/24/84
QUAL. EVAL. [signature] 1/20/84

PIPING SYSTEM DATA LEGEND

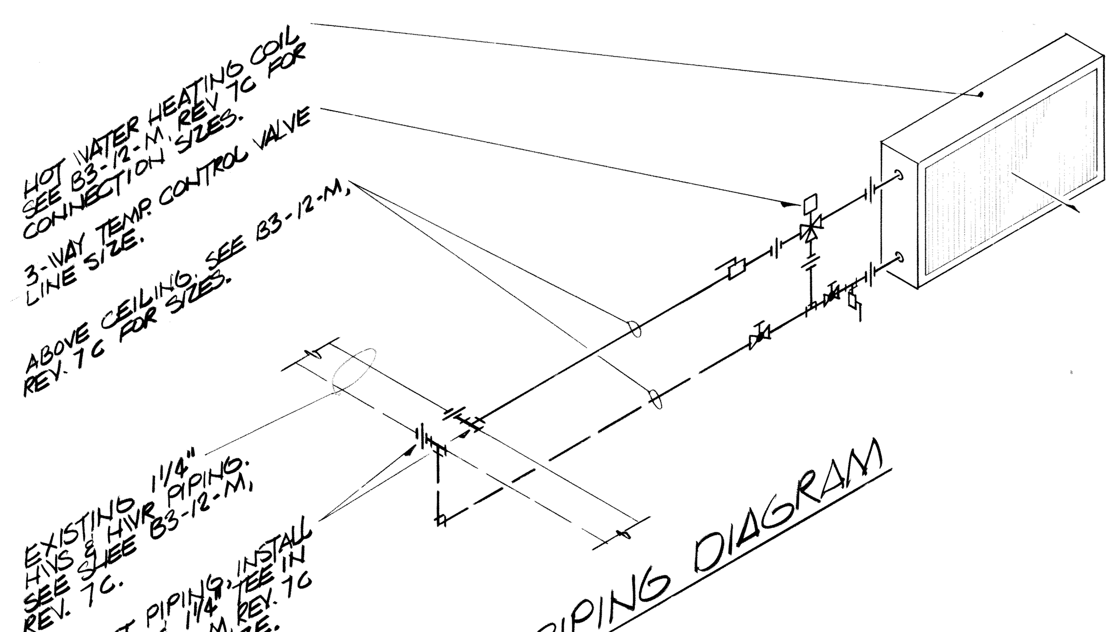
FLOWING MEDIUM	"A"	"B"	"C"	"D"	TYPE TEST
STEAM & CONDENSATE	30	274	75	40	HYDROTEST
HEATING WATER	22	190	30	30	HYDROTEST
CHILLED WATER	20	55	30	–	HYDROTEST
COMPRESSED AIR	80	200	80	–	PNEUMATIC



HEAT EXCHANGER PIPING DIAGRAM
NO SCALE

PIPING SPECIALTIES MATERIAL LIST

SYMBOL	DESCRIPTION
1	IN-LINE CENTRIFUGAL PUMP, 40 GPM, 30 FT. HEAD 1.0 HP, 208 V/3φ. SEE DS-CEC-15728-A.
2	SAFETY RELIEF VALVE, 30 PSIG, 1¼" × 1" SCR., ASME RATED. SEE DS-CEC-15728-B.
3	AIR SEPARATOR, 2" NPT INLET & OUTLET, 56 GPM CAPACITY. SEE DS-CEC-15728-C.
4	HEAT EXCHANGER, 6" DIA, 4-PASS, 40 GPM @ 30 ΔT, 1½" WTR. INLET & OUTLET, 1½" STEAM. SEE DS-CEC-15728-D.
5	FLOW METER, 2" SCR., 25-85 GPM RANGE, DIRECT READING. SEE DS-CEC-15728-E.
6	FLOW CONTROL VALVE, 2½" SCR., ANGLE PATTERN, 0 TO 100 GPM RANGE. SEE DS-CEC-15728-F.
7	INVERTED BUCKET TRAP, 3/4" SCR., CAST STEEL, 3/16" ORFICE. "ARMSTRONG" №. 811 OR APPROVED EQUAL.
8	COMPRESSION TANK, 15 GAL., ASME RATED. SEE DS-CEC-15728-G.
9	AIR CONTROL TANK FITTING, 1/2" SCR., CAST IRON. SEE DS-CEC-15728-H.
10	REDUCING VALVE, 1/2" SCR., BRASS, FAST-FILL TYPE. SEE DS-CEC-15728-I.



HOT WATER HEATING COIL PIPING DIAGRAM
NO SCALE (TYPICAL OF 3)

REVIEWED FOR CLASSIFICATION
[signature] 1-23-98
Name Date
UNCLASSIFIED

REVIEWED FOR CLASSIFICATION
DE 05/06/2014
Initials Date
UNCLASSIFIED

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SECTION & DETAIL LEGEND
SECTION NUMBER OR DETAIL LETTER
SHEET WHERE DETAIL OR SECTION IS CUT
SHEET WHERE DETAIL OR SECTION IS SHOWN

AS BUILT

BY	DATE	SECT.
JAP	7-85	WDS

REV	DESCRIPTION	BY	CHK	RED	SECT	DEPT	DATE	PE	REQ	DATE	UCCND	DATE	DOE	DATE	QE	CA	EC	EE	MD	IE	MA	CP	SE	CE
0	CERTIFIED FOR CONSTRUCTION - FPSC # 8118										[initials]	1-27-84												
A	FOR APPROVAL - TITLE II - GPP FY '83	JAP	[initials]	[initials]	DRH	WDB	1/23/84	[initials]			[initials]	1-27-84				RLE	MWI	WWR		JB				DM

REVISION OR ISSUE PURPOSE — REVISION OR ISSUE APPROVALS — SQUAD CHECK

TOLERANCES UNLESS OTHERWISE SPECIFIED
FRACTIONS ±
XX DECIMALS ±
XXX DECIMALS ±
ANGLES
BREAK SHARP EDGES MAX.
FINISH

NR
A-E

VASmith 1-27-84
UCC-ND

NR
DOE

DRAWING APPROVALS		DATE
DES	M.W. IHNEN	9/83
DRW	J.A. PAGE	10/83
CHK	MW Ihnen	1/84
SECT	D.R. Holland	1/84
DEPT & PLANT	W.D. Buchanan	1/84
DIVISION	W.D. Buchanan	1/84
REQUESTER	AB	1/84
FIRE / SECURITY	JRW/CJY	1/84
SAFETY	MM	1/84
IND. HYGIENE	RG	1/84

UNION CARBIDE CORPORATION • NUCLEAR DIVISION
Operated for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract W7405 eng 26
Paducah, Kentucky

HVAC UPGRADING, C-100, C-101, C-102
PIPING DIAGRAM & SCHEDULES

HVAC UPRATING, C100, 101, 102 — TYPE D

1	48	49	50	PLANT	BLDG	FL	SHT.	OF	CLASS
3	H	A	P	PGDP	C-102	B			U

SCALE	ID			REV
AS NOTED	15728	M5E15728	B	0

MICROFILMED