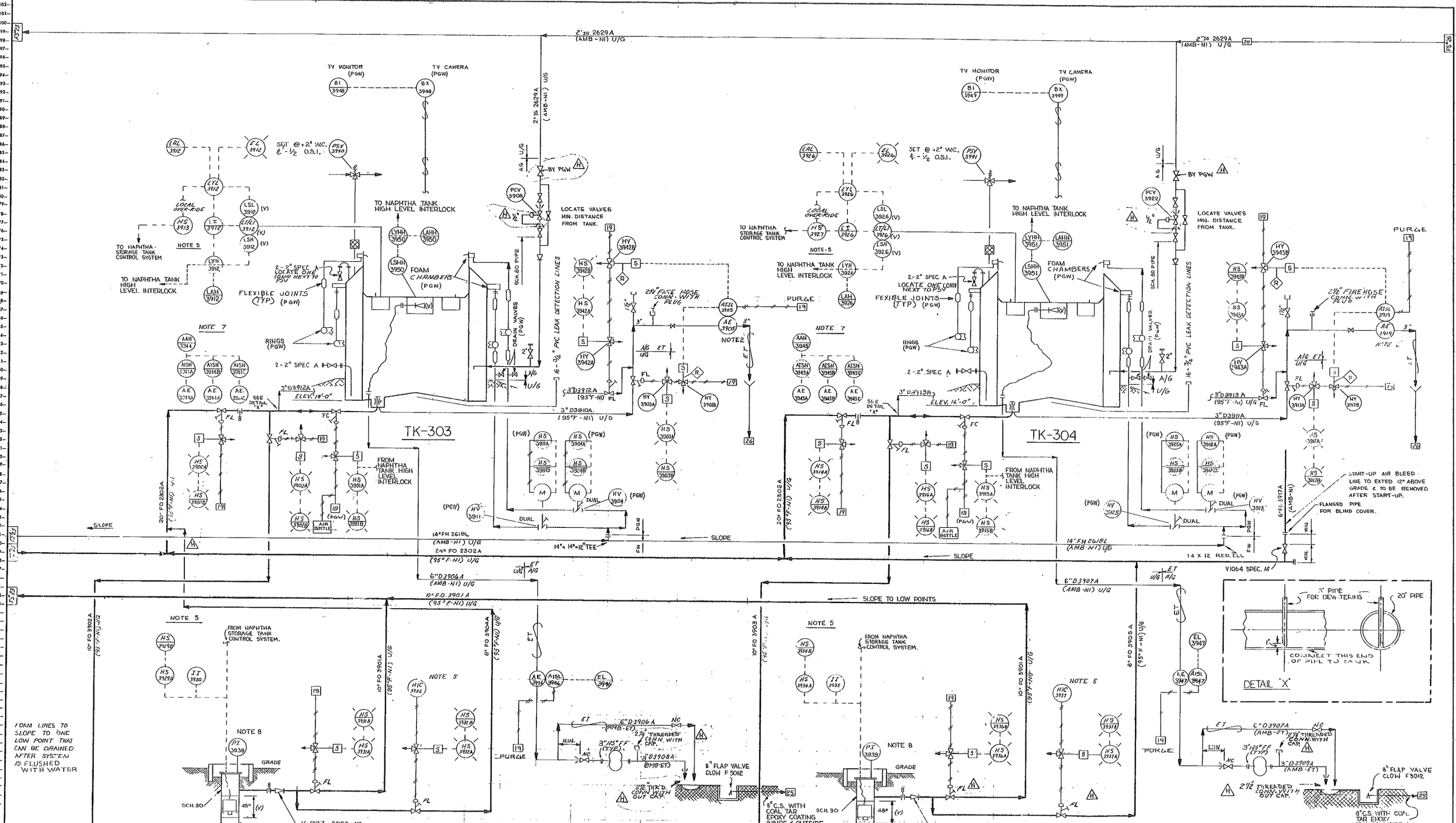

LEGEND							
1 COOLING WATER SUPPLY (GLYCOL-WTR)	15 15# DESUPERHEATED STM	29 STEAM CONDENSATE	43 OILY OR DIRTY WATER SEWER	57 PUMPOUT	71 CAR. START-UP GAS	85 PROCESS CONDENSATE	99 15 # STEAM CONDENSATE.
2 COOLING WATER RETURN (GLYCOL-WTR)	16 150# H.P. STEAM	30 TREATED WATER	44 CHEMICAL WASTES	58 PURGE GAS (NITROGEN)	72 PIPE LINE GAS (NAT. GAS)	86 RAW WATER	100
3 150# ATOMIZING STEAM	17 PLANT AIR	31 FUEL OIL (NAPHTHA)	45 SANITARY SEWER	59 BLOWDOWN	73 INERT GAS (CO_2)	87 FUEL GAS (STREETFORM)	101
4 50# L.P. STEAM	18 INSTRUMENT AIR	32 FUEL GAS (NATURAL GAS)	46 FIRE WATER	60 FLARE	74 BOILER FEED WATER	88 SOUR WATER	102
		33 CLEAN WATER SEWER	47 FLUSHING OIL	61 TO ATMOSPHERE		89 PRESSURIZATION AIR	103

NOTES

1. FOR GENERAL NOTES, ETC., SEE F.S. # 1.
4. FOR NOTES 1 & 2 SEE FLOWSHEET NO. 1779-1-50-23.
5. LOCATE HIC, II, HS, NEARBY PUMPS P-312A TO D, HIC & II TO BE READABLE FROM EACH OTHER.
6. ARRANGE ELECTRICAL & PIPING CONNECTIONS TO CASING HEAD PLATE OF P-312A TO D TO PERMIT REMOVAL OF HEAD PLATE & PUMP
7. LOCATE AES NAPHTHA DETECTORS 6" ABOVE GRADE IN LOW POINTS OF SWELLS 120' APART FIRST HILL DISTANCE FROM P-330
8. REMOVE PI FOR VENTING PRIOR TO INITIAL START.

ITEM NO.	P-312C	P-312D	P-330C	P-330D
SERVICE	RAW NAPHTHA PUMP	RAW NAPHTHA PUMP	ROOF DRAIN PUMP	ROOF DRAIN PUMP
S.G. AT P.T.	0.65 (0.77 MAX.)	0.65 (0.71 MAX.)	1.0	1.0
DES. G.P.M. AT P.T.	446	446	50	50
DES. DIFF. P.S.I.	115	115	7	7
MAX. DISCH. P.S.I.G	137	137	0	0
MATERIAL /CA	CS / 1/8"	CS / 1/8"	CI	CI
INSULATION	NONE	NONE	NONE	NONE

ITEM NO.	TK-303	TK-304
SERVICE	RAW NAPHTHA TANK	RAW NAPHTHA TANK
SIZE DIA x HGT.	200' DIA 62'-9"	200' x 62'-9"
DES. PRESS-TEMP.	ATM. & 4" W.C.	ATM & 4" W.C.
OPER. PRESS-TEMP.	ATM / AMB	ATM / AMB
WT EMPTY LBS.	8.5 x 10⁶	8.5 x 10⁶
MATERIAL /CA	CS / 0.03	CS / 0.03
INSULATION	SEE NOTE 1	SEE NOTE 1

ITEM NOS. THIS DWG.
TK - 303
TK - 304
P - 312C
P - 312D
P - 330C
P - 330D

REVISIONS																	
H	11-8-79	AS-BUILT	G	3-16-79	FINAL	F	6-19-78	RELEASED FOR ERECTION	E	4-18-78	RELEASED FOR ERECTION	D	1.10.78	FINAL ISSUE	MHS	C	7/25/77 GENERAL REVISION
B	5/19/77	GENERAL REVISIONS FOR CUSTOMER COMMENTS	A	1-15-77	ISSUED FOR DEFINITIVE ESTIMATE												

FORM 135-39C REV.

PHILADELPHIA GAS WORKS
ENGINEERING DEPT. PHILADELPHIA, PA.

W.O.
APPROVED
PGW DWG. NO. 12-A-224

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ENGINEERING FLOW DIAGRAM
SECTION 300-SUPPORT FACILITIES
RAW NAPHTHA
60 MM SCFD SNG PLANT
PHILADELPHIA GAS WORKS

PHILADELPHIA PENNSYLVANIA

EST. NO.
CONTRACT NUMBER 15-1779
DRAWN BY: K. 3-3-77 SH. 39 OF 37
DWG. NO. 1779-1-50-39 H