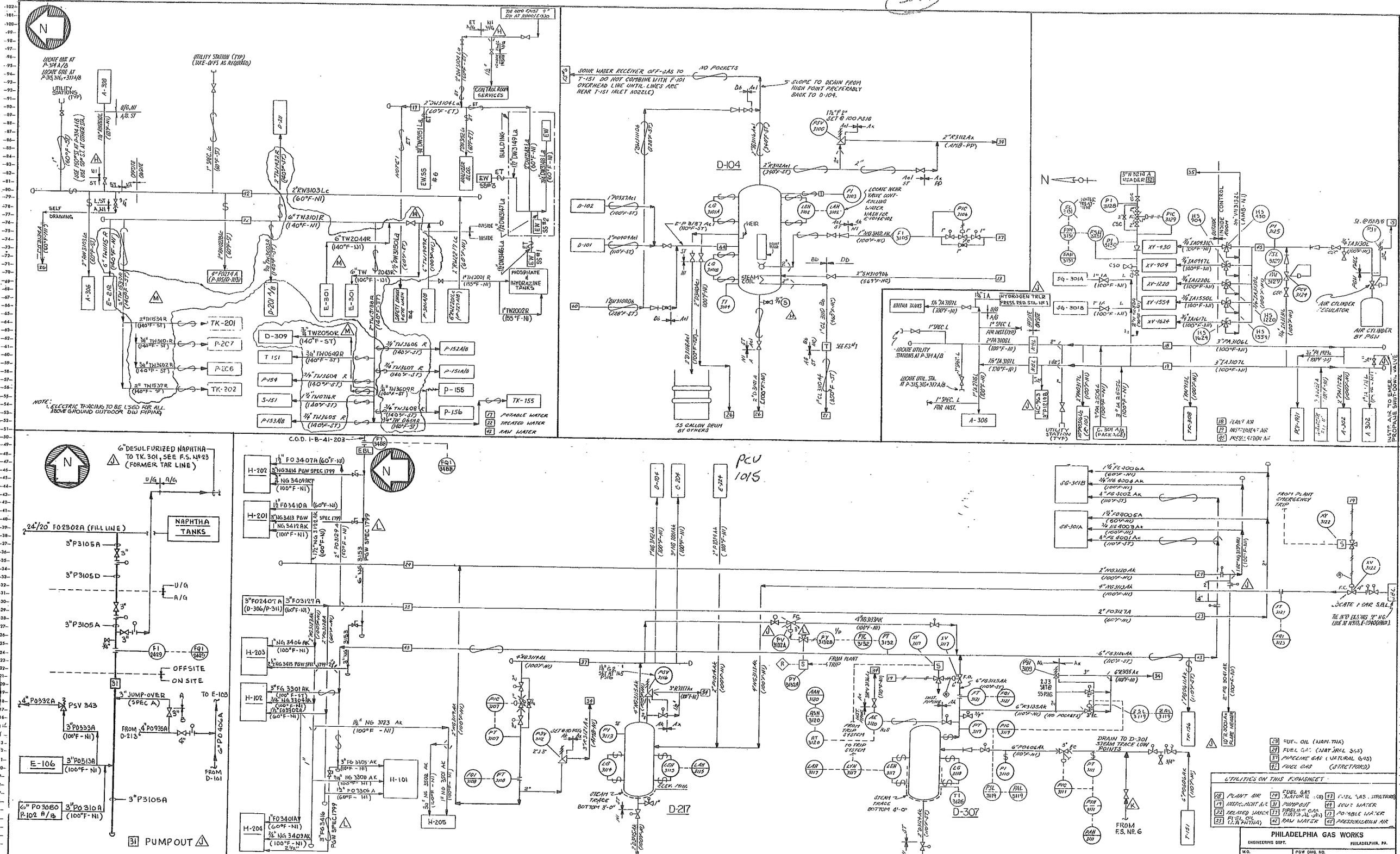
D-104
D-217
D-307
PUMPOUT
NAPHTHA TANKS
PHOSPHATE & HYDRAZINE TANKS
CONTROL ROOM SERVICES
BUILDING
AIR CYLINDER BY PGW
AIR CYLINDER REGULATOR
HYDROGEN TRLR PRESS. REG. STA. NO. 1
FROM PLANT EMERGENCY TRIP
DRAIN TO D-301 STEAM TRACE LOW POINTS
FROM F.S. NO. 6
TO TRIP SYSTEM
FROM TRIP SYSTEM
STEAM TRACE BOTTOM 3'-0"
STEAM TRACE BOTTOM 4'-0"
55 GALLON DRUM BY OTHERS
SOUR WATER RECEIVER OFF-GAS TO T-151 DO NOT COMBINE WITH F-101 OVERHEAD LINE UNTIL LINES ARE NEAR T-151 INLET
NO POCKETS
5" SLOPE TO DRAIN FROM HIGH POINT PREFERABLY BACK TO D-104.
LOCATE NEAR VALVE CONTROLLING WATER WASHER
UTILITY STATION (TYP)
LOCATE UTILITY STATIONS AT P-314 A/B
LOCATE UTIL. STA. AT P-315, 316+317 A/B
NOTE: 1. ELECTRIC TRACING TO BE USED FOR ALL ABOVE GROUND OUTDOOR DW PIPING
PCV 1015
LOCATE 1 BAR S.B.L.
THE 16"Ø EX.S.NG 12" N.G. LINE AT N310, E-1040 (PGW).
INSTR. AIR TO EMER. PROPANE SHUT-DOWN VALVE
UTILITIES ON THIS FLOWSHEET
PLANT AIR
INSTRUMENT AIR
TREATED WATER
FUEL OIL (NAPHTHA)
FUEL GAS (NATURAL GAS)
PIPELINE GAS (NATURAL GAS)
FUEL GAS (STRETFORD)
PUMPOUT
SOUR WATER
POTABLE WATER
RAW WATER
PRESSURIZATION AIR
PHILADELPHIA GAS WORKS
ENGINEERING DEPT.
PHILADELPHIA, PA.
W.O.
APPROVED
PGW DWG. NO.
12-A-195
FOSTER WHEELER ENERGY CORPORATION
110 SOUTH ORANGE AVENUE, LIVINGSTON, N.J.
UTILITY FLOW DIAGRAM
PROCESS AREA SECTIONS 100/150/200
60 MM SCFD SNG PLANT
PHILADELPHIA GAS WORKS
PHILADELPHIA PENNSYLVANIA
CONTRACT NUMBER 15 1779
DWG. NO. 1779-1-50-31
ITEM NOS. THIS DWG.
D-104
D-217
D-307
NOTES
1. FOR GENERAL NOTES, ETC., SEE F.S. No. 1.
LEGEND
COOLING WATER SUPPLY (GLYCOL-NTR)
COOLING WATER RETURN (GLYCOL-NTR)
150 # H.P. STEAM
150# ATOMIZING STEAM
50 # L.P. STEAM
15# DESUPERHEATED STEAM
POTABLE WATER
PLANT AIR
INSTRUMENT AIR
STEAM CONDENSATE
TREATED WATER
FUEL OIL (NAPHTHA)
FUEL GAS (NAT. GAS)
CLEAN WATER SEWER
OILY OR DIRTY WATER SEWER
CHEMICAL WASTES
SANITARY SEWER
FIRE WATER
FLUSHING OIL
PUMPOUT
PURGE GAS (NITROGEN)
BLOWDOWN
FLARE
TO ATMOSPHERE
CDG START-UP GAS
PIPELINE GAS (NAT. GAS)
BOILER FEED WATER
PROCESS CONDENSATE
RAW WATER
FUEL GAS (STRETFORD)
SOUR WATER
PRESSURIZATION AIR
REF STEAM CONDENSATE
REVISIONS
L 9-5-80 FIELD CHANGES
K 11-6-79 AS-BUILT
G 3-16-79 FINAL
F OP. MAN. ISSUE 7/20/78
E 12-28-77 RELEASED FOR ERECTION
D 9-20-77 GENERAL REVISIONS
C 7-21-77 BACK CHECKED-NOT ISSUED
B 5-7-77 GENERAL REVISIONS
M 9/16/82 PER W.O. 801607
PER W.O. 801582
FIELD CHANGES
DRAWING A-4012 2276-1