



LEGEND □ COOLING WATER SUPPLY (CONDUCT. W/...) □ COOLING WATER RETURN (CONDUCT. W/...) □ H.P. STEAM □ INSTRUMENTING STEAM □ H.P. STEAM		□ 15# SUPERHEATED STEAM □ PORTABLE WATER □ TREATED WATER □ FUEL OIL (NAPHTHA) □ FUEL GAS (SIGNAL GAS) □ CLEAN WATER SEWER		□ STEAM UNDERBATE □ TREATED WATER □ FUEL OIL (NAPHTHA) □ FUEL GAS (SIGNAL GAS) □ CLEAN WATER SEWER		□ OILY OR DIRTY WATER SEWER □ GENERAL WASTE □ SANITARY SEWER □ FIRE WATER □ FLUSHING OIL		□ PUMP/OUT □ GAS (NITROGEN) □ BLOWDOWN □ FLARE □ TO ATMOSPHERE		□ DRG STARTUP GAS □ PIPELINE GAS (SAT. GAS) □ INERT GAS (CO ₂) □ BLEND/FEED WATER		□ PROCESS COORDINATE □ RAW WATER □ FUEL GAS (STEADY)		NOTES 1. RESILIENT SEAT FOR TIGHT SHUT OFF. 2. PUMP TO HAVE A 3-POSITION START/STOP SWITCH; AUTO-OFF-MANUAL. 3. VALVE SHALL HAVE TWO FLOW STOPS. 4. FW TO DESIGN ONLY PIPING AT PUMPS P-313A & B AND TO INCLUDE ALL VALVES AND INSTRUMENTS. OTHER PIPING (WITHOUT VALVES OR INSTRUMENTS) WILL BE DESIGNED BY PGW.		5. FOR GENERAL NOTES, ETC., SEE F-5 #1	
ITEM NO. P-313A SERVICE G. AT RT. 0.88 (0.54 MAX) 2" G.P.M. AT P.T. 250 1/2" DISCH. P.S.I.G. C.S. INSULATION NONE	ITEM NO. P-313B SERVICE SPARE FOR P-313A 0.88 (0.54 MAX) 2" G.P.M. AT P.T. 250 1/2" DISCH. P.S.I.G. C.S. INSULATION NONE	ITEM NO. P-311A SERVICE NAPHTHA FUEL PUMP 0.88 (0.77 MAX) 85 1" I.D. 250 1/2" DISCH. P.S.I.G. C.S. INSULATION NONE	ITEM NO. P-311B SERVICE SPARE FOR P-311A 0.88 (0.77 MAX) 85 1" I.D. 250 1/2" DISCH. P.S.I.G. C.S. INSULATION NONE	ITEM NO. P-301 SERVICE NAPHTHA FUEL PUMP 0.88 (0.77 MAX) 85 1" I.D. 250 1/2" DISCH. P.S.I.G. C.S. INSULATION NONE	ITEM NO. P-302A SERVICE FUEL NAPHTHA FILTER 85 1" I.D. 250 1/2" DISCH. P.S.I.G. C.S. INSULATION NONE	ITEM NO. P-302B SERVICE FUEL NAPHTHA FILTER SPARE 85 1" I.D. 250 1/2" DISCH. P.S.I.G. C.S. INSULATION NONE	ITEM NO. A-301 SERVICE FUEL OIL ACCUMULATOR 75" x 22" x 22" 25 PSIG/110°F 25 PSIG/110°F 100/100°F C.S. NONE	ITEM NO. D-306 SERVICE NAPHTHA FUEL DEWATER ACCUMULATOR 75" x 22" x 22" 25 PSIG/110°F 25 PSIG/110°F 100/100°F C.S. NONE	REV. 1 10-177 GENERAL REVISIONS	REV. 2 5/19/77 FOR CLIENT COMMENTS	REV. 3 3/11/77 ISSUED FOR DEFINITIVE E-TIMATE ONLY	REV. 4 12-1-77 RELEASED FOR ERECTION	REV. 5 12-5-77 ADDITIONAL REVISIONS	REV. 6 12-5-77 ADDITIONAL REVISIONS	REV. 7 12-5-77 ADDITIONAL REVISIONS		

PHILADELPHIA GAS WORKS
 ENGINEERING DEPT. PHILADELPHIA, PA.
 W.D. _____ PGW DWG. NO. 12-A-188
 APPROVED _____
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 110 SOUTH ORANGE AVENUE, LIVINGSTON, N.J.
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ENGINEERING FLOW DIAGRAM
 SECTION 300-SUPPORT FACILITIES
 ENRICHMENT PROPANE-FUEL NAPHTHA
 60MM SCD SHG PLANT
 PHILADELPHIA GAS WORKS
 PHILADELPHIA, PENNSYLVANIA
 EST. NO. 15-1779 DWG. NO. 12-A-188
 CONTRACT NUMBER 15-1779 DWG. NO. 12-A-188