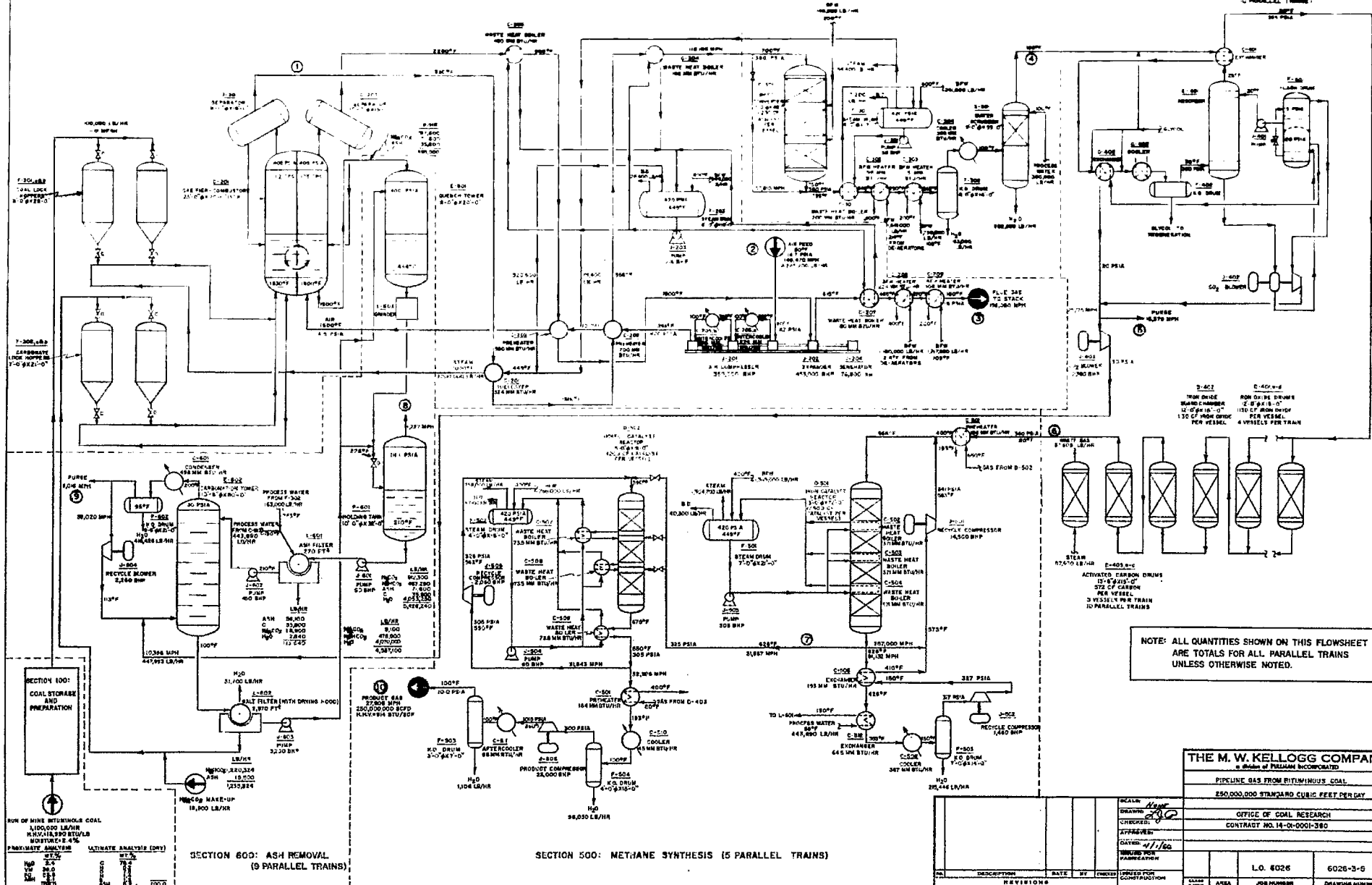
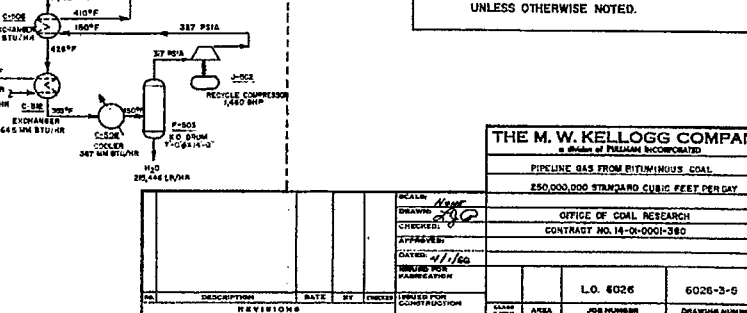
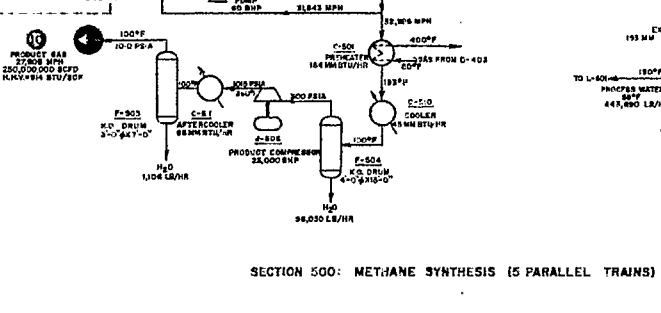
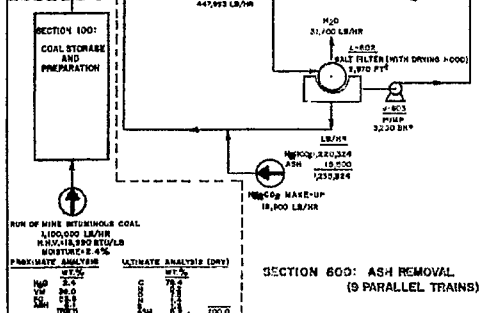

VI. REFERENCES

- (1) Bienstock, D. et al., Bureau of Mines Report of Inv. 5841 (1961)
- (2) Dirksen, H. A. et al., "Production of Pipeline Gas by Methanation of Synthesis Gas over Raney Nickel Catalysts," presented at ACS, Atlantic City, New Jersey (September 13, 1959)
- (3) Dirksen, H. A. et al., Research Bulletin #31, I.G.T. (July, 1963)
- (4) Field, J. H. et al., "Development of Catalysts and Reactor Systems for Methanation," presented at ACS, Philadelphia, Pennsylvania (April 5, 1964)
- (5) Forney, A. J. et al., Bureau of Mines Report of Inv. 6126 (1962)
- (6) Forney, A. J. et al., Bureau of Mines Report of Inv. 6609 (1965)
- (7) O.C.R. Tentative Standard for Cost Estimating of Investor-Owned Plants for Producing Pipeline Gas from Coal, June 4, 1965



NOTE: ALL QUANTITIES SHOWN ON THIS FLOWSHEET ARE TOTALS FOR ALL PARALLEL TRAINS UNLESS OTHERWISE NOTED.



THE M. W. KELLOGG COMPANY
 PIPELINE GAS FROM RHYMINHUS COAL
 250,000,000 STANDARD CUBIC FEET PER DAY

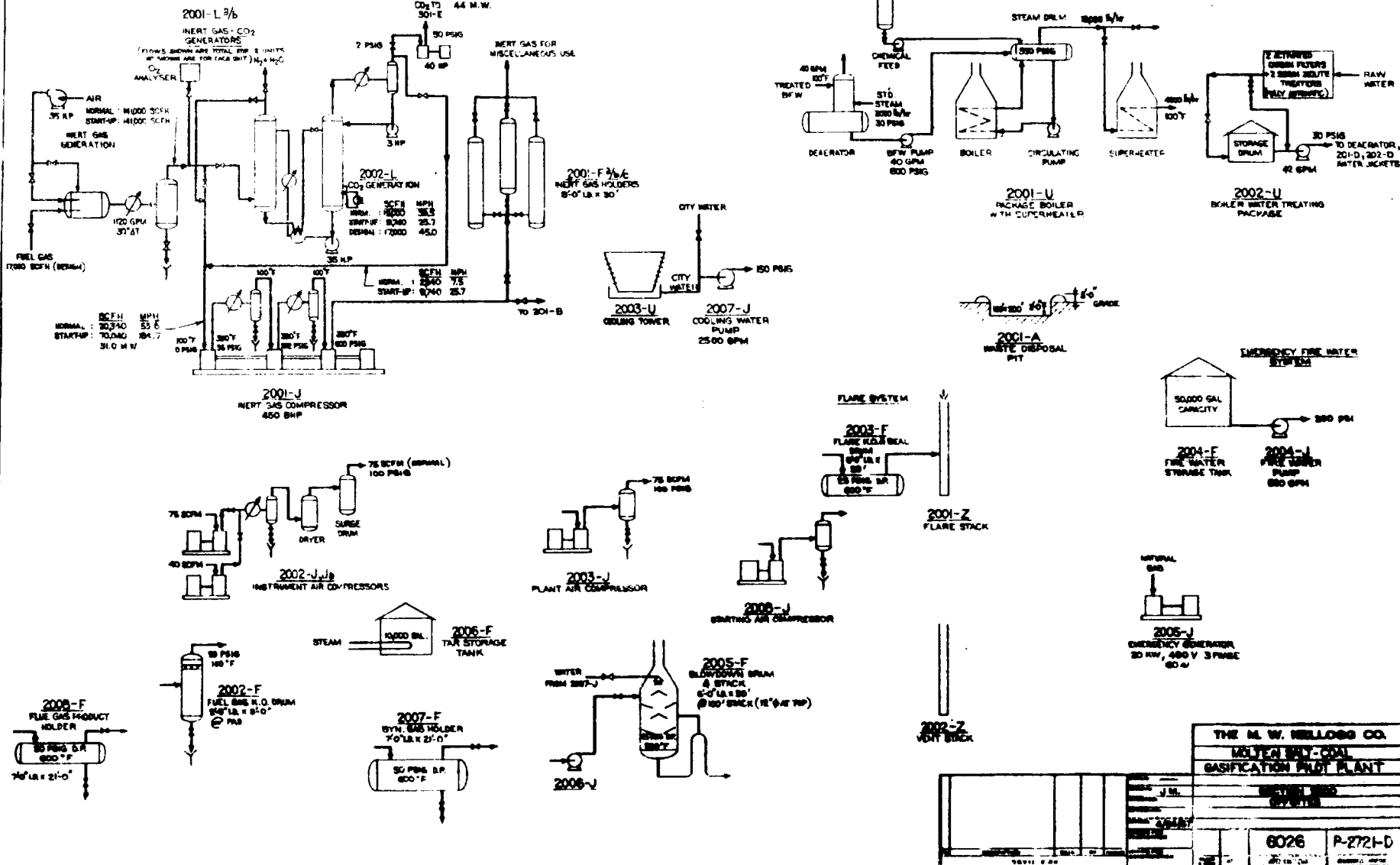
SCALE	AS SHOWN
DRAWN	2/2/60
CHECKED	
APPROVED	
DATE	4/1/60
SUBMITTED	
PREPARED	
CONSTRUCTION	

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR CONSTRUCTION			

L.O. 4026 6026-3-6

SCFH MPH
 NORMAL : 17,000 35
 START-UP : 12,100 32
 0

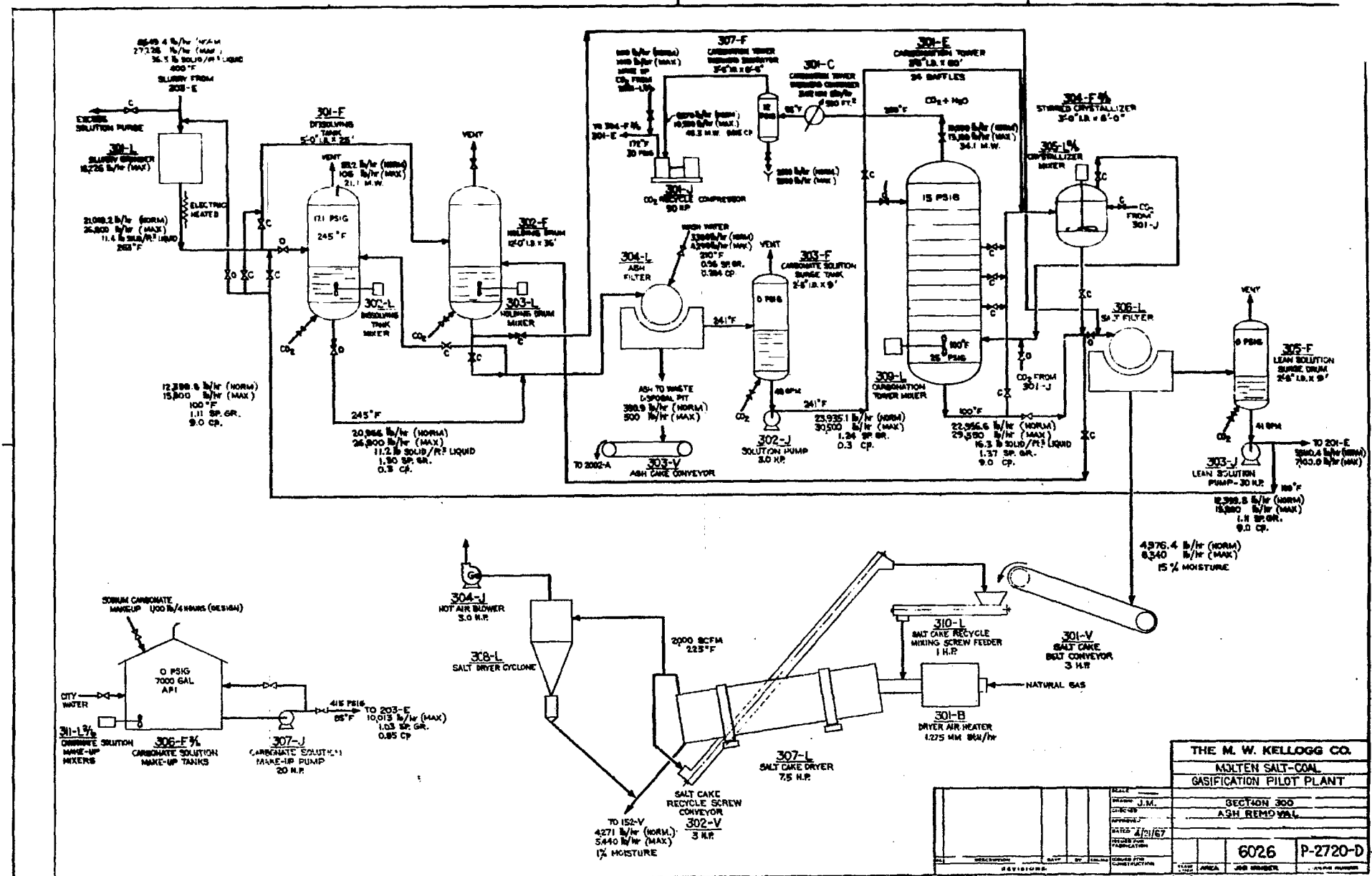
CO₂ TO 30"E 44 M.W.



THE M. W. HULLOGG CO.	
MOLYBDEUM-COAL	
GASIFICATION PLANT	
DESIGNED BY	J.M.
CHECKED BY	
DATE	
PROJECT NO.	6026
PLANT NO.	P-2721-D

146

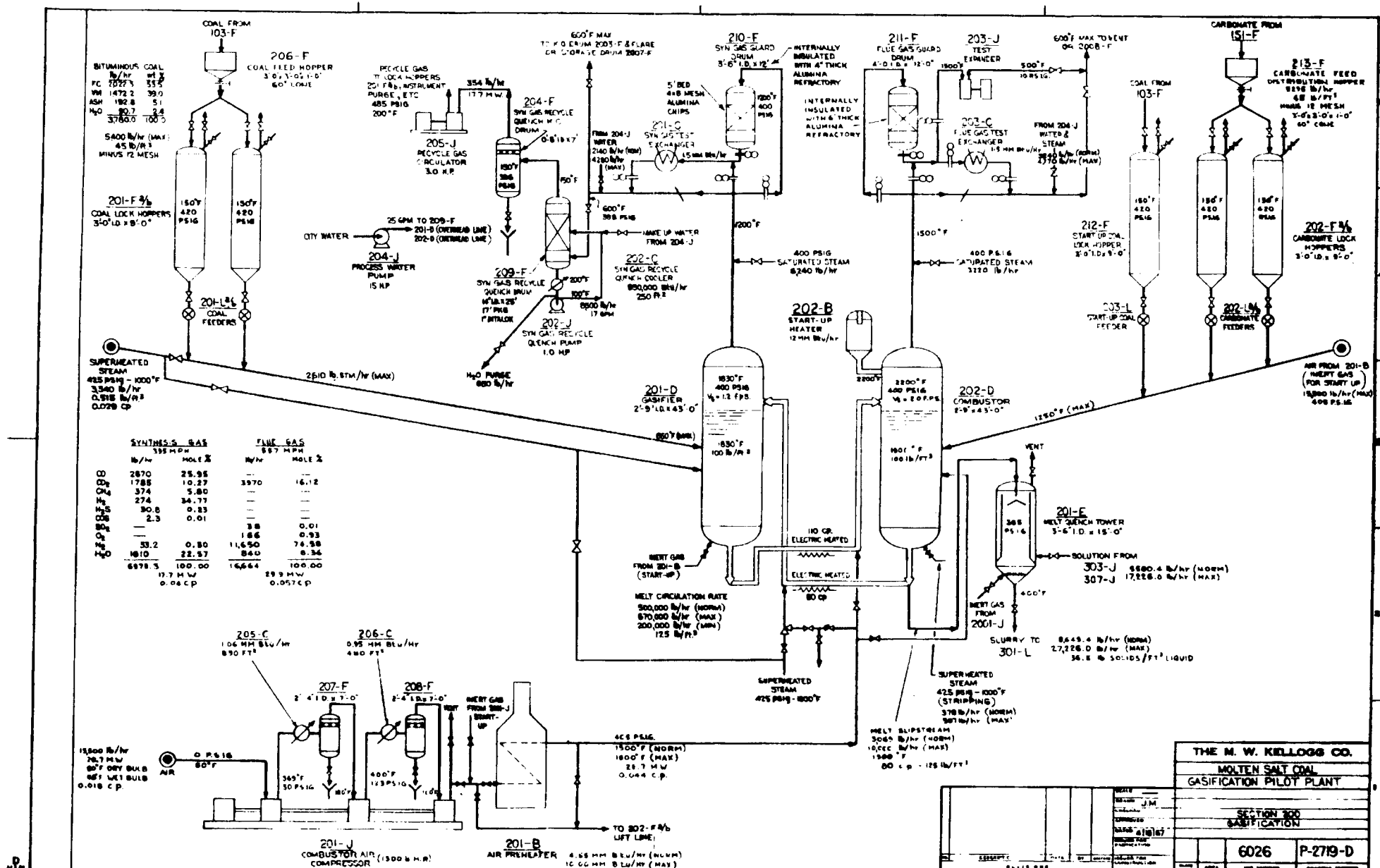
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THE M. W. KELLOGG CO.			
MOLTEN SALT-COAL			
GASIFICATION PILOT PLANT			
DESIGNED BY	J.M.	SECTION	300
CHECKED BY		TITLE	ASH REMOVAL
DATE	4/11/67	PROJECT NO.	6026
CONSTRUCTION NO.		JOB NUMBER	P-2720-D

A

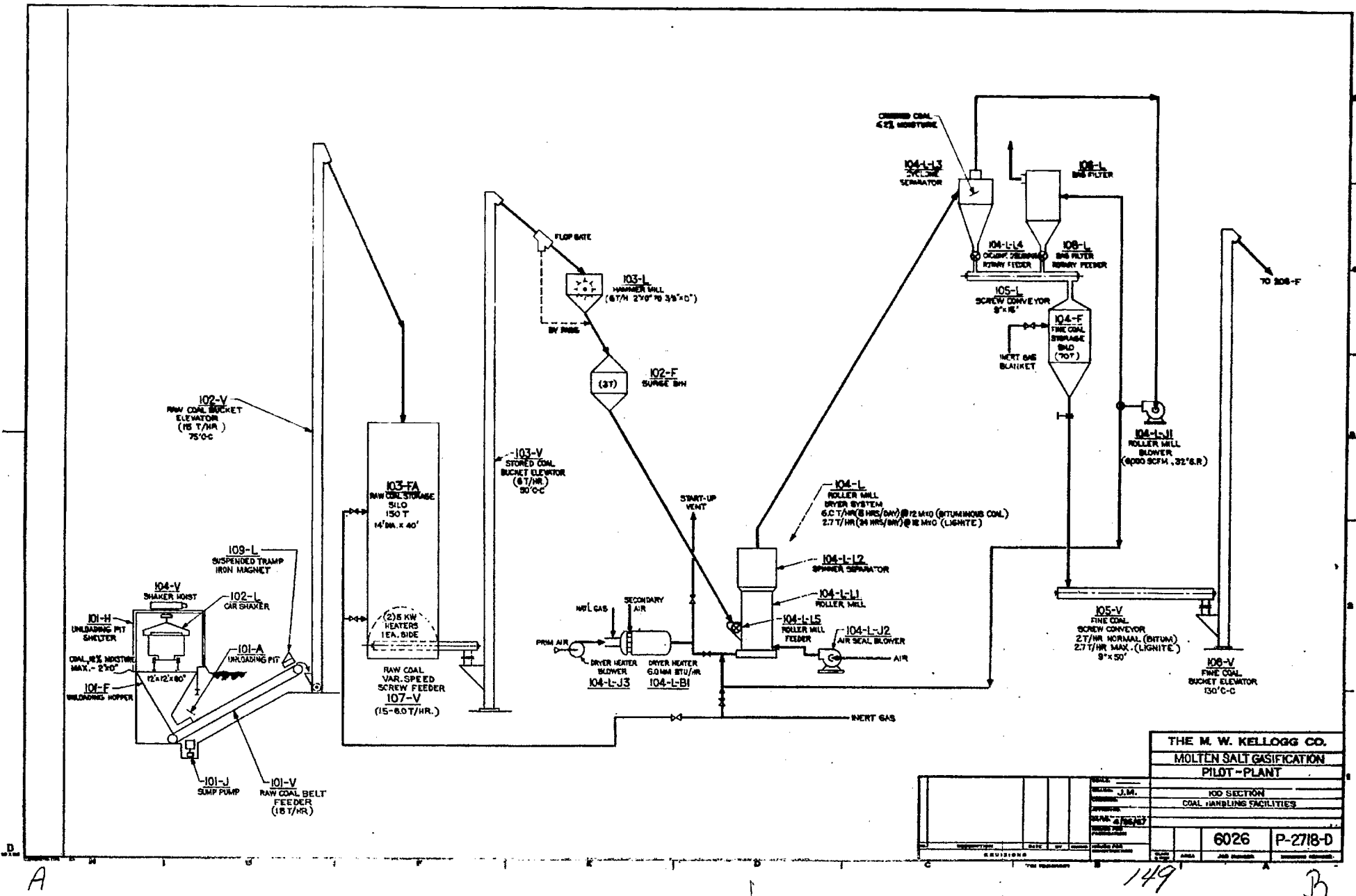
B



SYNTHESIS GAS		FLUE GAS	
lb/hr	MOLE %	lb/hr	MOLE %
CO	2870	25.95	
CO ₂	1785	10.27	
CH ₄	374	5.80	
H ₂	274	34.77	
H ₂ O	90.8	0.83	
O ₂	2.3	0.01	
N ₂	—	—	3.8
Ar	—	—	0.01
He	—	—	1.86
Ne	—	—	11.650
H ₂ O	1810	22.57	840
	6878.3	100.00	16664
			100.00
			29.9 MW
			0.057 CP

THE M. W. KILLOGG CO.	
MOLTEN SALT COAL	
GASIFICATION PILOT PLANT	
DESIGNED BY	J.M.
CHECKED BY	
DATE	
SECTION	300
GASIFICATION	
NO.	6026
REV.	P-2719-D

148

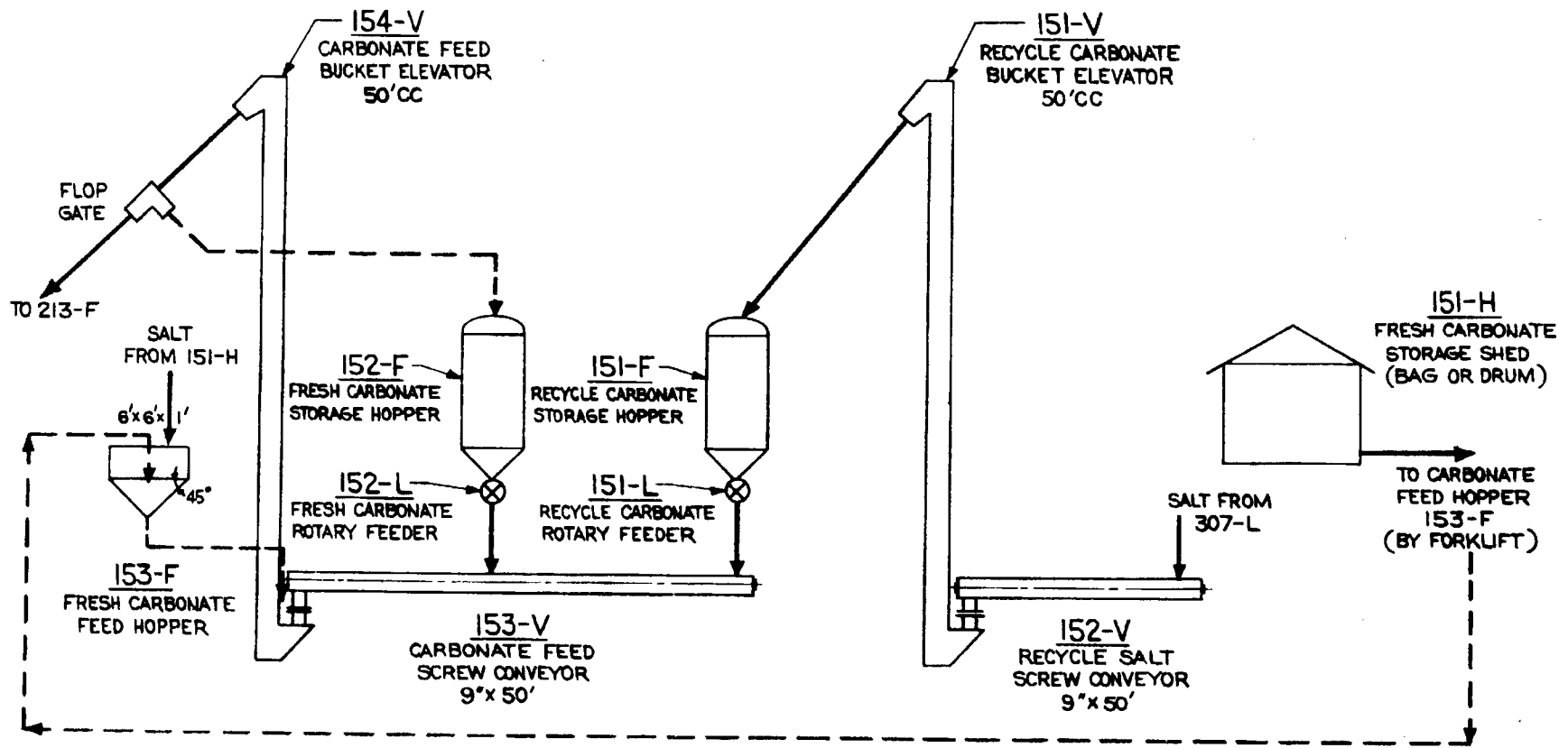


THE M. W. KELLOGG CO.	
MOLTEN SALT GASIFICATION	
PILOT-PLANT	
DESIGNED BY	J.M.
PROJECT NO.	COAL HANDLING FACILITIES
DATE	6/26/67
NO.	6026
REV.	P-2718-D

A

149

B



B
11 x 17

A

				SCALE: _____	THE M. W. KELLOGG CO.			
				DRAWN: J.M.	MOLTEN SALT GASIFICATION			
				CHECKED:	PILOT PLANT			
				APPROVED:	ISO SECTION			
				DATED: 4/28/67	CARBONATE HANDLING FACILITIES			
				ISSUED FOR FABRICATION				
				ISSUED FOR CONSTRUCTION				
REVISIONS				CLASS & ITEM	AREA	JOB NO.	DRAWING NO.	
						6026	P-1169-B	

150

B

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