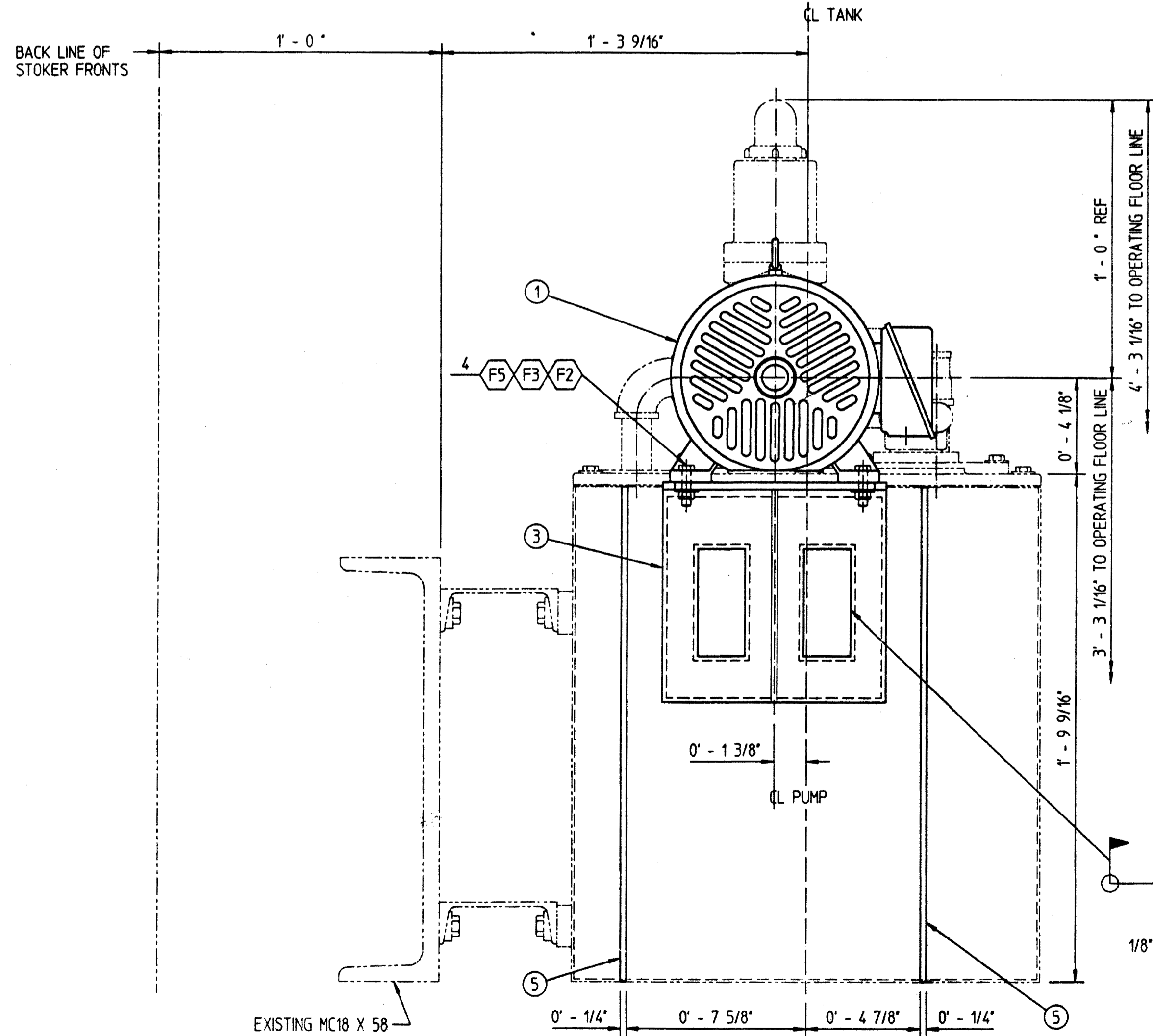
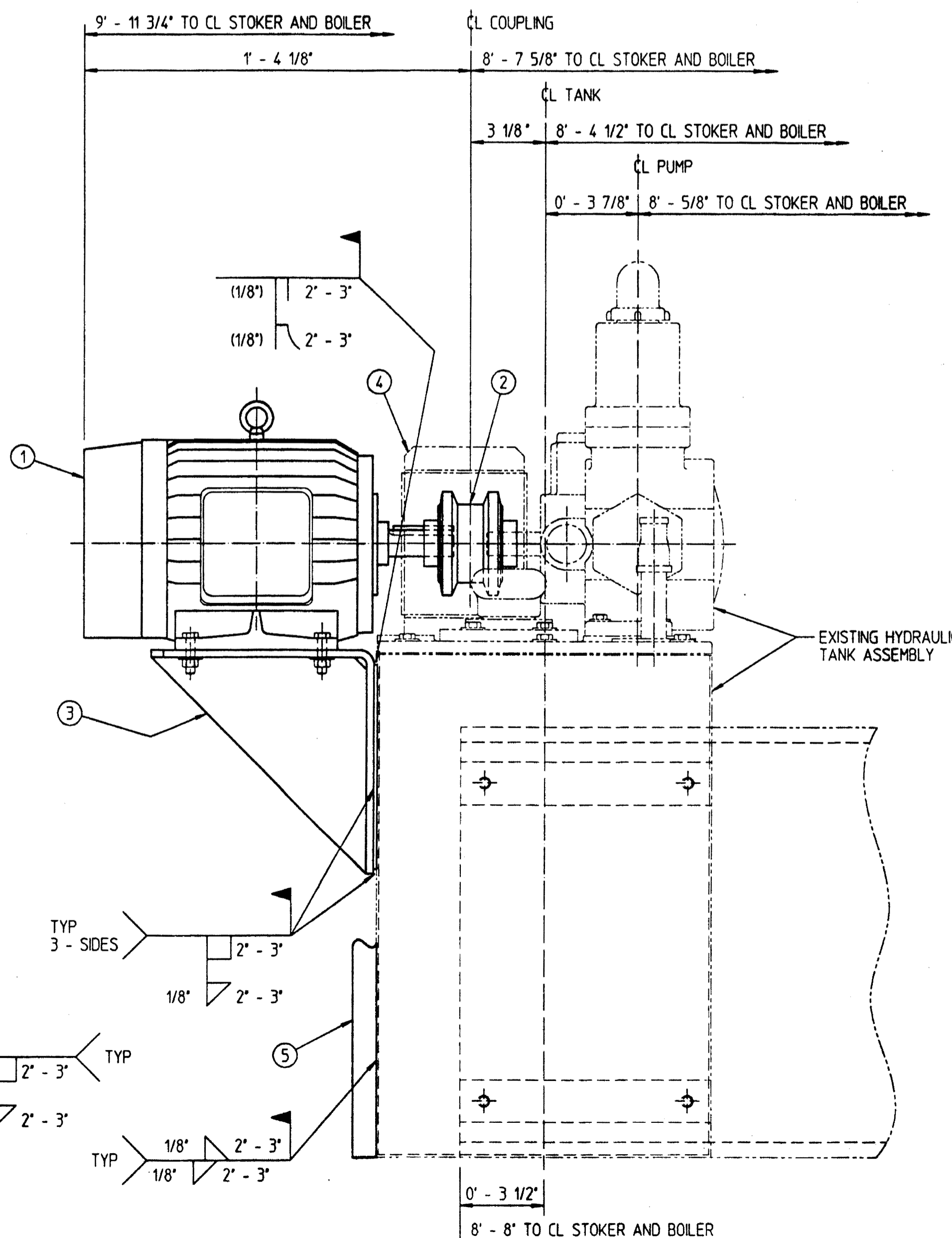


PLAN VIEW



LH SIDE VIEW

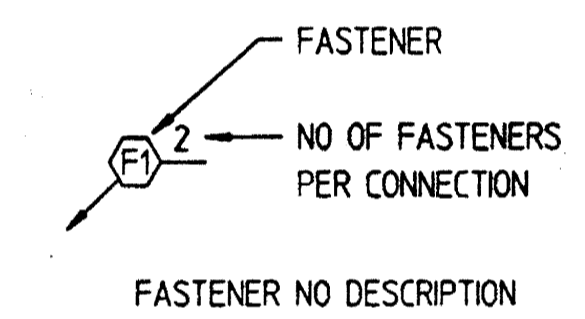


FRONT VIEW

HYDRAULIC GRATE DRIVE MODIFICATIONS, 1 - REQD FOR JOB (130 LBS)

MKD	RECD	PART NO	DESCRIPTION	DWG NO	LBS EA
1	1	AB2212-1	TOSHIBA, 2 HP, 1200 RPM, TEFC, 184T FRAME MOTOR W/THERMAL OVERLOAD (3 PH, 60 HZ, 230/460 VAC)		95
2	1	AB2212-2	FALK, TAPERED GRID STEELFLEX COUPLING, TYPE T10, SIZE 1030T W/Ø1 1/8\" BORE & 1/4\" X 1/8\" KEYWAY (FOR 1/4\" SQ KEY), & Ø1\" BORE & 3/16\" X 3/32\" KEYWAY (FOR #607 WOODRUFF KEY)		4.9
3	1	AB2212-3	MOTOR MOUNTING BRACKET	40153-D18-1L	19
4	1	AB2212-4	COUPLING GUARD	40153-D18-1L	7.7
5	2	AB2212-5	1/4\" X 1\" HRS FLAT X 1\" - 9\" LG		15
FASTENERS					
F1	3	1-002-424-7	5/16\" X 3/4\" LG HEX HD CAP SCREW		
F2	5	1-002-291-0	3/8\" X 1 1/2\" LG HEX HD CAP SCREW		
F3	5	1-001-676-7	3/8\" HEX NUT		
F4	3	1-012-210-9	5/16\" FLAT WASHER		
F5	5	1-002-777-7	3/8\" FLAT WASHER		

ISSUE NO	MICROFILMED											
	ISSUE NO	0	1	2	3	4	5	6	7	8	9	10
	DATE	9-27-99										
	SECTION	CHK	REVISION									



NOTE:
 1. MAX ROTOR SHAFT SPEED = 2400 RPM @ 120 HZ
 NOM ROTOR SHAFT SPEED = 1200 RPM @ 60 HZ
 MIN ROTOR SHAFT SPEED = 400 RPM @ 20 HZ

TOLERANCES UNLESS OTHERWISE SPECIFIED	
FRACTIONAL ±1/16	1 PLACE DECIMAL ×100
METRIC ±1 mm	2 PLACE DECIMAL ×100
SURFACE FINISH 125	3 PLACE DECIMAL ×100L

CAUTION
 WHEN INSTALLING, OPERATING OR SERVICING EQUIPMENT ALWAYS REFER TO INSTALLATION, OPERATING AND MAINTENANCE MANUAL FOR SAFETY PRECAUTIONS.
 N INDICATES NOT FURNISHED BY DSC
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FOR APPROVAL
 RETURN BY
 OCT 20 1999
 NOT FOR CONSTRUCTION

HYDRAULIC GRATE DRIVE MODIFICATIONS

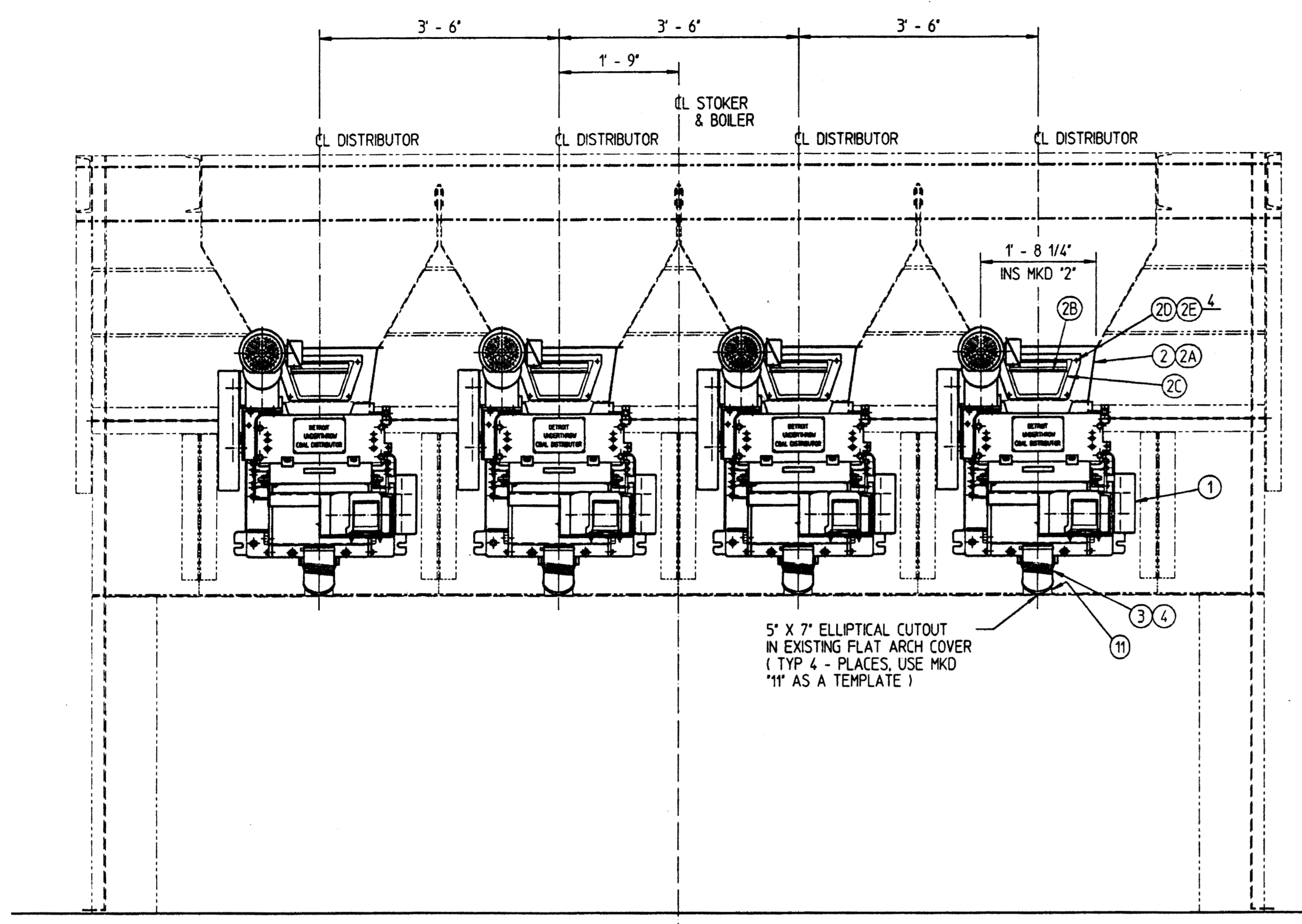
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 MONROE, MICHIGAN
 1 - B & W FP-18-48 BOILER

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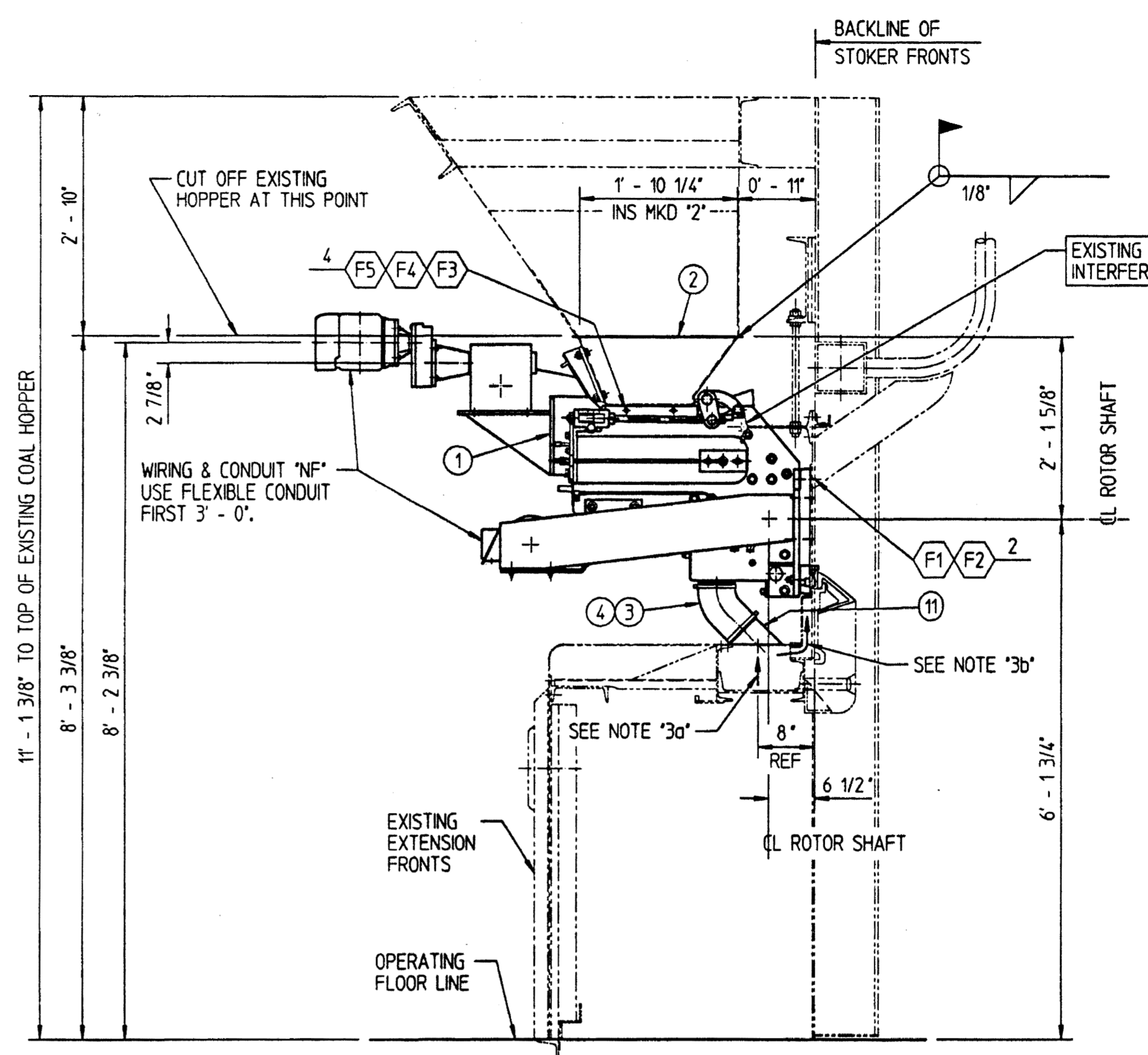
(STOKER NO. 1076, BOILER NO. 2)

SCALE 3\"/>

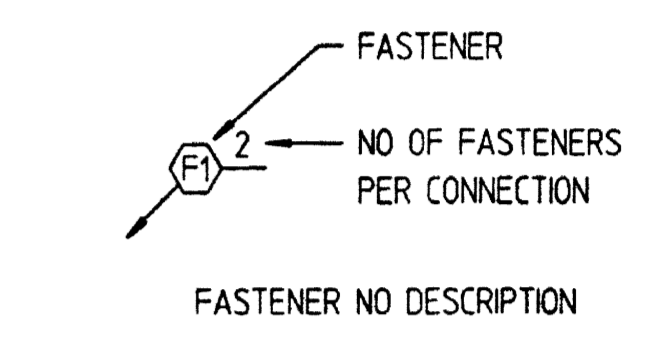
MICROFILMED												
ISSUE NO	ISSUE NO	0	1	2	3	4	5	6	7	8	9	10
SECTION	DATE	9-27-99										
CHK	REVISION											



FRONT VIEW



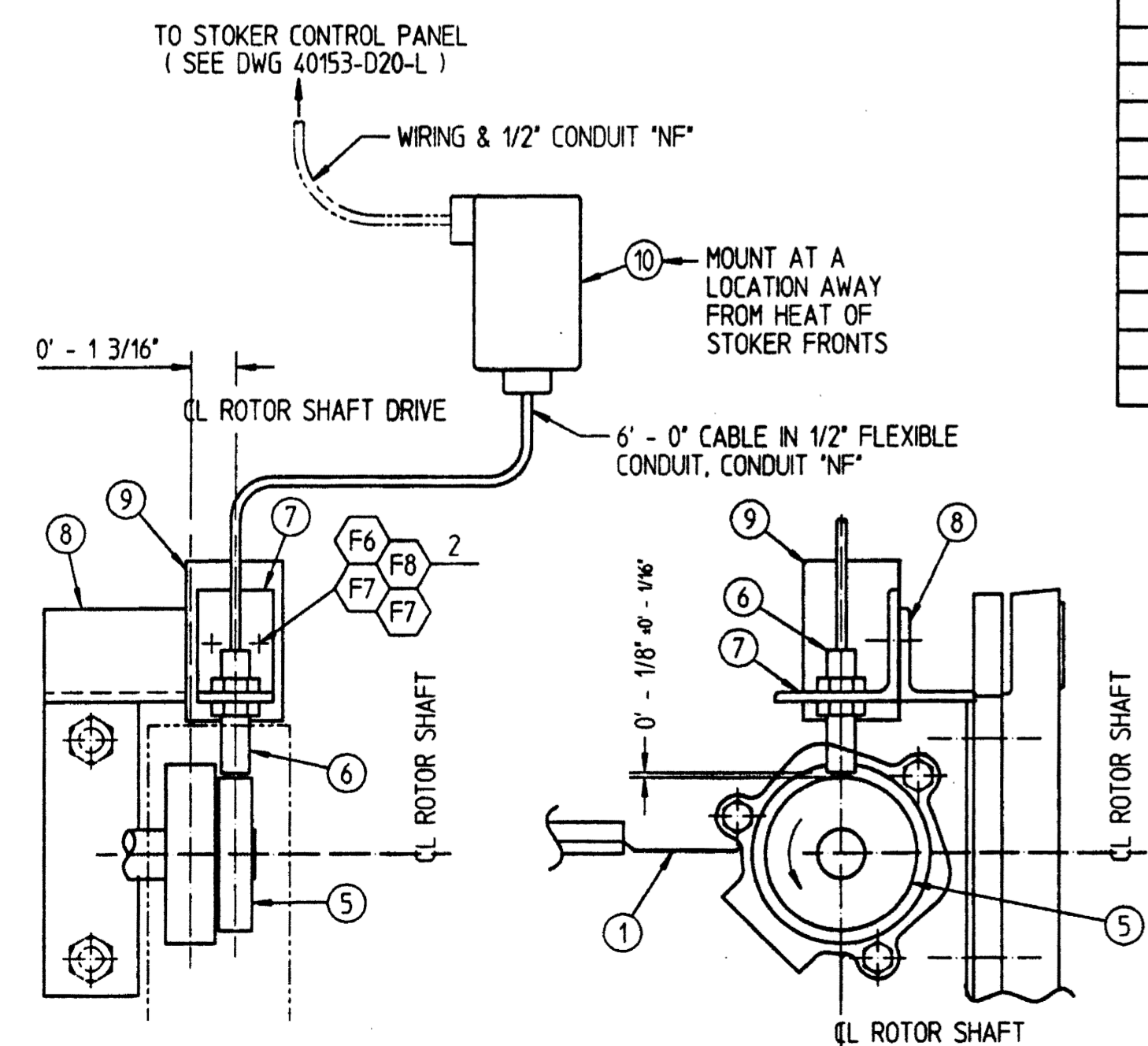
RH SIDE VIEW



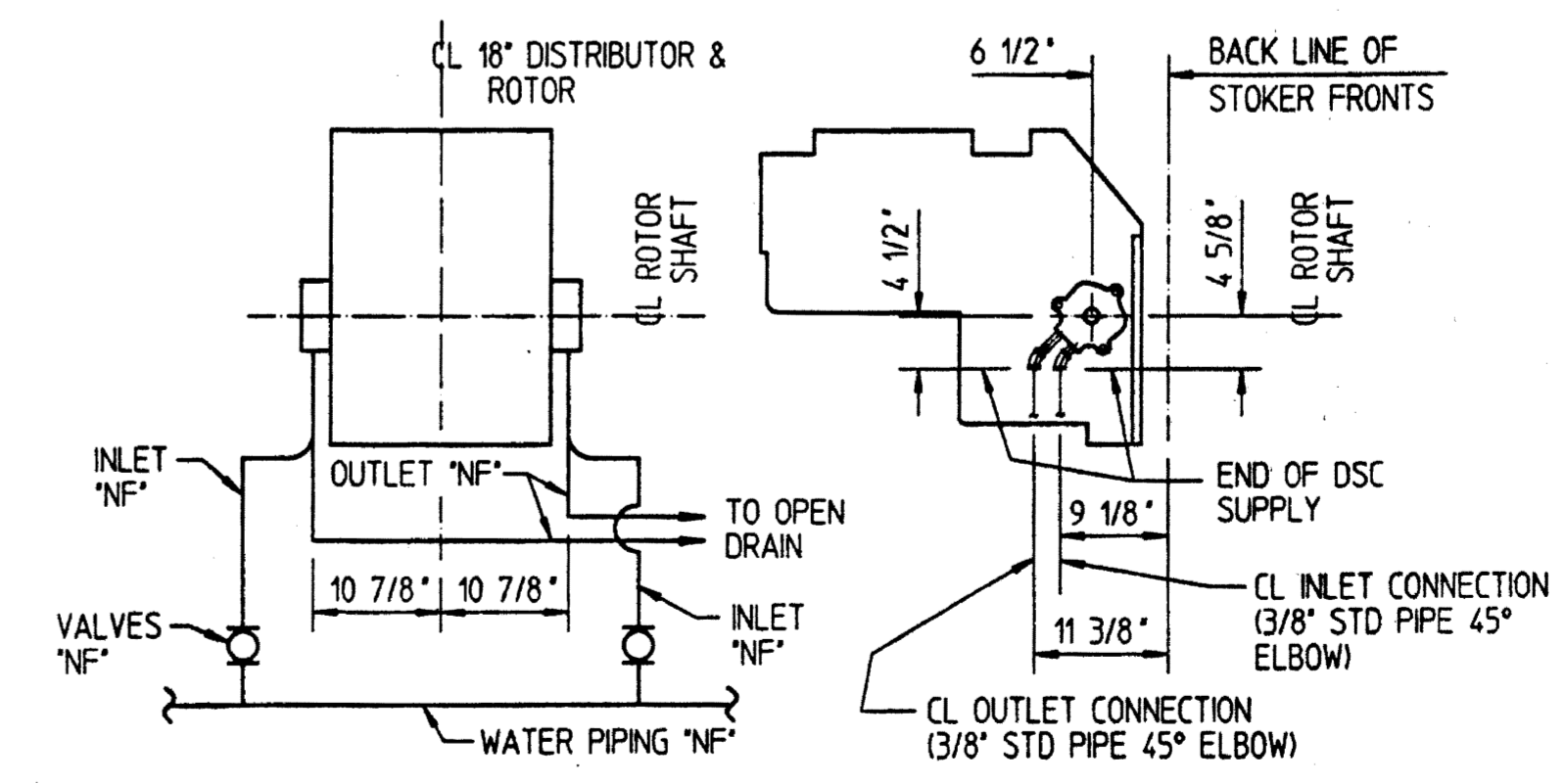
- NOTES:
- THE INDIVIDUAL MOTOR LEADS MUST BE RUN IN SEPARATE CONDUITS UNLESS ONE OF THE FOLLOWING APPLIES.
 - IF THE MOTOR LEADS ARE RUN IN A COMMON CONDUIT, THEY MUST BE INDIVIDUALLY SHIELDED.
 - IF THE MOTOR LEADS ARE RUN IN A CABLE TRAY, THEY MUST BE SHIELDED WITH GREENFIELD.
 - ROTOR SHAFT SPEED DETERMINES DEPTH OF COAL THROW.
 - NOMINAL ROTOR SHAFT SPEED FOR GRATE LENGTH OF 10' - 11 1/8" = 400 RPM @ 37.5 HZ
 - MAX ROTOR SHAFT SPEED = 960 RPM @ 90 HZ
 - MIN ROTOR SHAFT SPEED = 320 RPM @ 30 HZ
 - TOTAL AIR REQUIRED IN FLAT ARCH FOR DISTRIBUTOR EQUIPMENT = 1900 ACFM
 - DISTRIBUTION AIR REOD = 325 ACFM @ 20" W.C. PER DISTRIBUTOR
 - TUYERE COOLING AIR REOD = 150 ACFM @ 6" W.C. PER DISTRIBUTOR

MATERIAL FURNISHED FOR ONE FUEL SUPPLY EQUIPMENT ARR, 1 - ARR REQD FOR JOB, APPROX TOTAL WT: _____ LBS

MKD	REOD	PART NO	DESCRIPTION	WT EACH	DWG NO	MKD	REOD	PART NO	DESCRIPTION
1	4	AB2212-10	18" UNDERTHROW COAL DISTRIBUTOR	1747 LBS	40153-D19-1L, 2L, 3L & 4L	F1	9	5145	1" X 3" LG MACH BOLT W/ SPECIAL SO HD (PER DWG S-5145)
	4	AB2212-7	COAL HOPPER ASSY	?	THIS DWG	F2	9	1-001-636-8	1" HEX NUT
	1	AB2212-8	18" COAL HOPPER WELDMENT (3/16" PLATE)	?	AB-2212-D19-5L	F3	17	1-002-100-0	1/2" X 1 3/4" LG HEX HD CAP SCREW
2	1	U-372-B	POKE HOLE COVER	6.3 LBS	MS-140	F4	17	1-002-759-9	1/2" FLAT WASHER
	1	U-1201-B	POKE HOLE FRAME	11 LBS	MS-134-1	F5	17	W-4850	1/2" HEX NUT
	4	1-002-448-4	5/8" X 1 1/2" LG HEX HD CAP SCREW			F6	9	1-002-203-1	1/4" X 1" LG HEX HD CAP SCREW
	4	1-001-681-3	5/8" HEX NUT			F7	17	1-002-763-7	1/4" FLAT WASHER
3	4	950-135120096	SILFLEX TYPE DSF FLEX HOSE 5" ID X 1' - 0" LG (TRIM LG AS REOD)	2 LBS	9N-13512	F8	9	1-001-627-9	1/4" HEX NUT
4	8	9117-40	HOSE CLAMP (5" ID)		N-9117				
5	4	950-12240001	MAGNETIC DISC	1 LB	9U-12240				
6	4	950-12241006	SENSING HEAD W/ 6' - 0" LG CABLE	1 LB	9S-12241				
7	4	929-1224201	SENSING HEAD MOUNTING BRACKET		9S-12242				
8	4	921-1334900	TACHOMETER SENSOR BRACKET	3.7 LBS	9S-13349				
9	4	921-1327600	HEAT SHIELD	5 LBS	9S-13276				
10	4	950-1311900	SENSOR HEAD TERMINAL STRIP BOX	1 LB	9U-13119				
11	4	AB2212-9	5" PIPE SLEEVE	3 LBS	AB-2212-D19-6L				
	1	851-PC35	STANDARD HIGH TEMPERATURE GREASE	35 LBS					



AUXILIARY VIEWS SHOWING TACHOMETER EQUIPMENT (TYP 4 - PLACES)
SCALE = 3" = 1' - 0"



FRONT VIEW RH SIDE VIEW
AUXILIARY VIEWS SHOWING WATER PIPING ARR (TYP 4 - PLACES)

FOR ROTOR WATER FLOW:
WATER RATE = .06 GPM PER BEARING AT 50° F
MIN WATER PRESSURE = 25 PSI AT EACH BEARING

SUGGEST OPEN DRAIN AT DISCHARGE
END TO ASSURE POSITIVE FLOW OF
COOLING WATER "NF"

FOR APP. RETURN
OCT 2 1999
NOT FOR CONSTRUCTION

TOLERANCES
UNLESS OTHERWISE SPECIFIED

FRACTIONAL +1/16	1 PLACE DECIMAL +.010
METRIC +1 mm	2 PLACE DECIMAL +.010
SURFACE FINISH 125	3 PLACE DECIMAL +.001

CAUTION
WHEN INSTALLING, OPERATING OR SERVICING EQUIPMENT ALWAYS REFER TO INSTALLATION, OPERATING AND MAINTENANCE MANUAL FOR SAFETY PRECAUTIONS.

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FUEL SUPPLY EQUIPMENT ARR

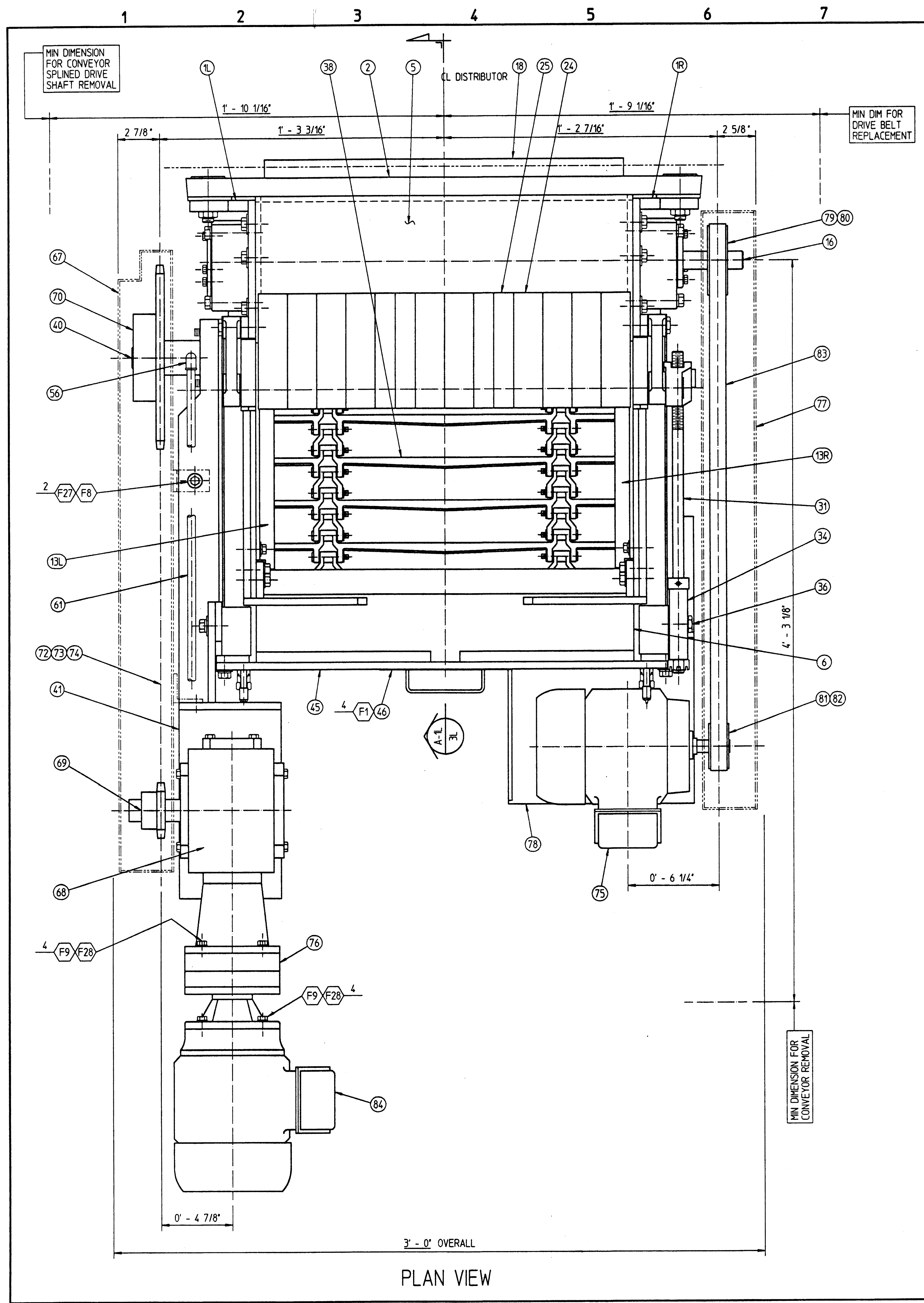
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1 - B & W FP-8-48 BOILER

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LEXINGTON, KENTUCKY

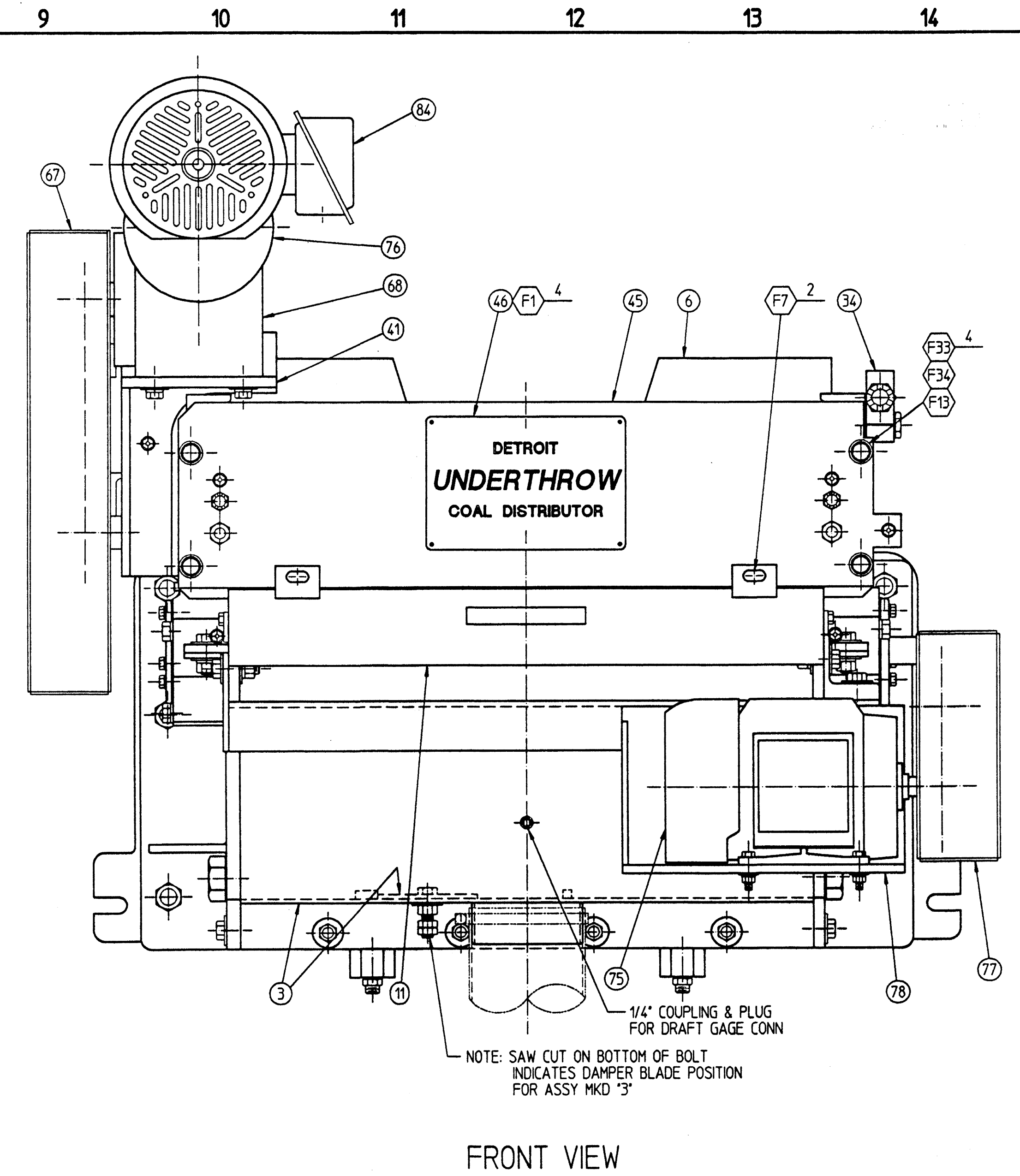
(STOKER NO. 1076, BOILER NO. 2)

SCALE 3/4" = 1' - 0" DATE 9-27-99
OWN Porter CHK JUV APPD ENGR
JOB NO AB-2212-153-CR-180

40153-D19-L
REV 0



PLAN VIEW



FRONT VIEW

① 18" UNDERTHROW COAL DISTRIBUTOR PART NO AB2212-10
4 - REQD FOR JOB APPROX WT = 1747 LBS EA

MICROFILMED												
ISSUE NO	ISSUE NO	0	1	2	3	4	5	6	7	8	9	10
SECTION	DATE											
CHK	REVISION											

SECTION DESIGNATION
A-L
SHEET TAKEN FROM
1
SHEET SHOWN ON
SECTION MARK DESCRIPTION

FASTENER
F1 2
NO OF FASTENERS PER CONNECTION
FASTENER NO DESCRIPTION

- NOTES:
- SEE DWG 40153-D19-L FOR FUEL SUPPLY EQUIPMENT ARRANGEMENT.
 - SEE DWG 40153-D19-2L FOR 18" UNDERTHROW COAL DISTRIBUTOR LH AND RH SIDE VIEWS.
 - SEE DWG 40153-D19-3L FOR 18" UNDERTHROW COAL DISTRIBUTOR SECTIONAL VIEWS & GENERAL NOTES.
 - SEE DWG 40153-D19-4L FOR 18" UNDERTHROW COAL DISTRIBUTOR BILL OF MATERIAL.

TOLERANCES UNLESS OTHERWISE SPECIFIED	
FRACTIONAL ±1/16	1 PLACE DECIMAL ×100
METRIC ±1 mm	2 PLACE DECIMAL ×010
SURFACE FINISH 125	3 PLACE DECIMAL ×001

CAUTION
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18" UNDERTHROW COAL DISTRIBUTOR
FRONT AND PLAN VIEWS

DETROIT STOKER COMPANY
MONROE, MICHIGAN
1 - B & W PP-18-48 BOILER

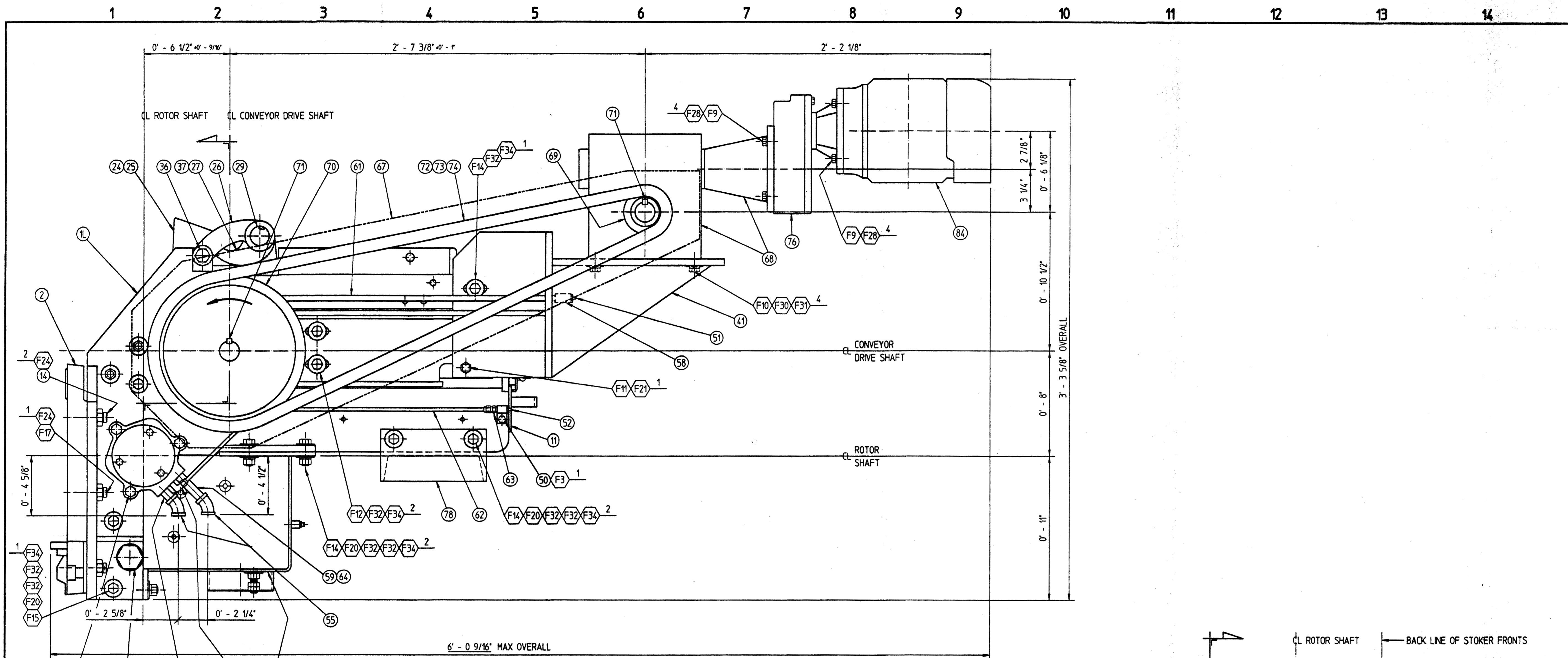
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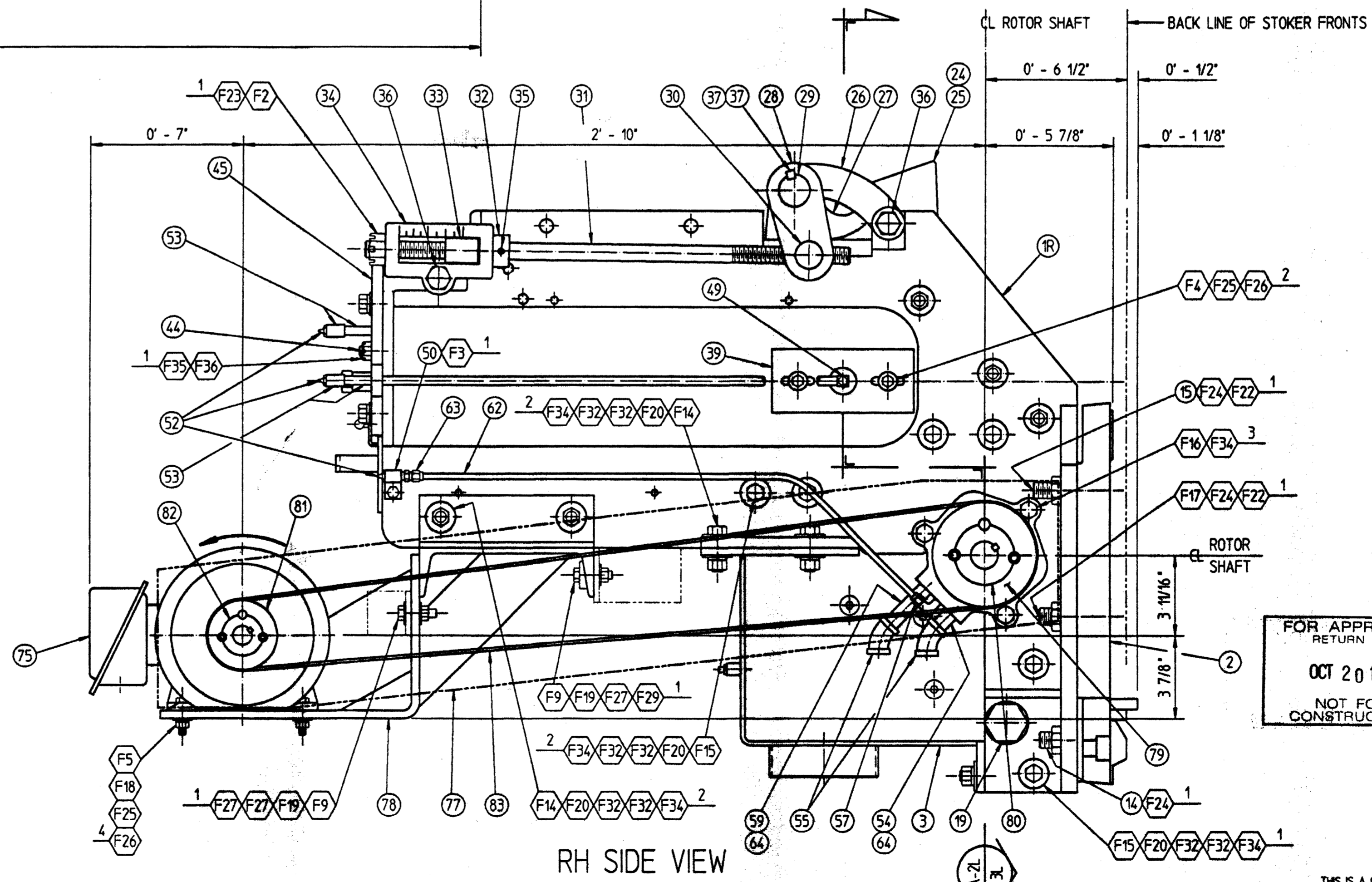
(STOKER NO. 1076, BOILER NO. 2)
SCALE 3' = 1' - 0" DATE OCTOBER 6, 1999
OWN Porter CHK JJV APPD ENGR JRC
JOB NO AB-2212-153-CR-180

40153-D19-1L
REV 0

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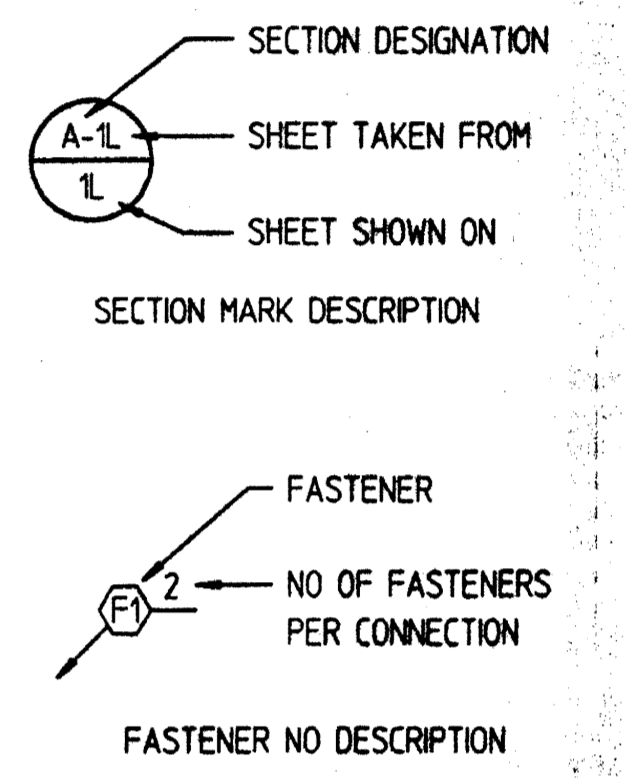


LH SIDE VIEW



RH SIDE VIEW

MICROFILMED												
ISSUE NO	ISSUE NO	0	1	2	3	4	5	6	7	8	9	10
SECTION	DATE											
CHK	REVISION											



- NOTES:
- SEE DWG 40153-D19-L FOR FUEL SUPPLY EQUIPMENT ARRANGEMENT.
 - SEE DWG 40153-D19-L FOR 18' UNDERTHROW COAL DISTRIBUTOR FRONT AND PLAN VIEWS.
 - SEE DWG 40153-D19-3L FOR 18' UNDERTHROW COAL DISTRIBUTOR SECTIONAL VIEWS & GENERAL NOTES.
 - SEE DWG 40153-D19-4L FOR 18' UNDERTHROW COAL DISTRIBUTOR BILL OF MATERIAL.

TOLERANCES UNLESS OTHERWISE SPECIFIED	
FRACTIONAL ±1/16	1 PLACE DECIMAL ±.005
METRIC ±1 mm	2 PLACE DECIMAL ±0.10
SURFACE FINISH 125	3 PLACE DECIMAL ±0.001

CAUTION
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18' UNDERTHROW COAL DISTRIBUTOR
LH AND RH SIDE VIEWS

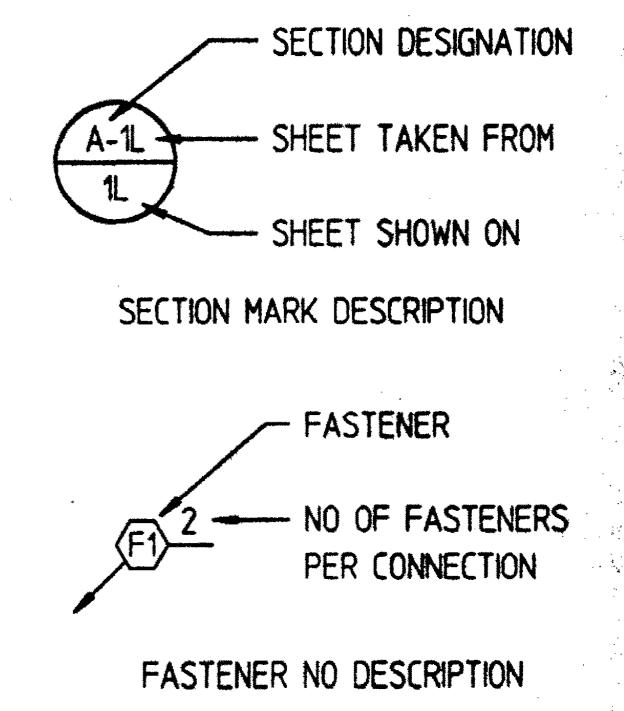
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MONROE, MICHIGAN
1 - B & W PP-18-48 BOLLER
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

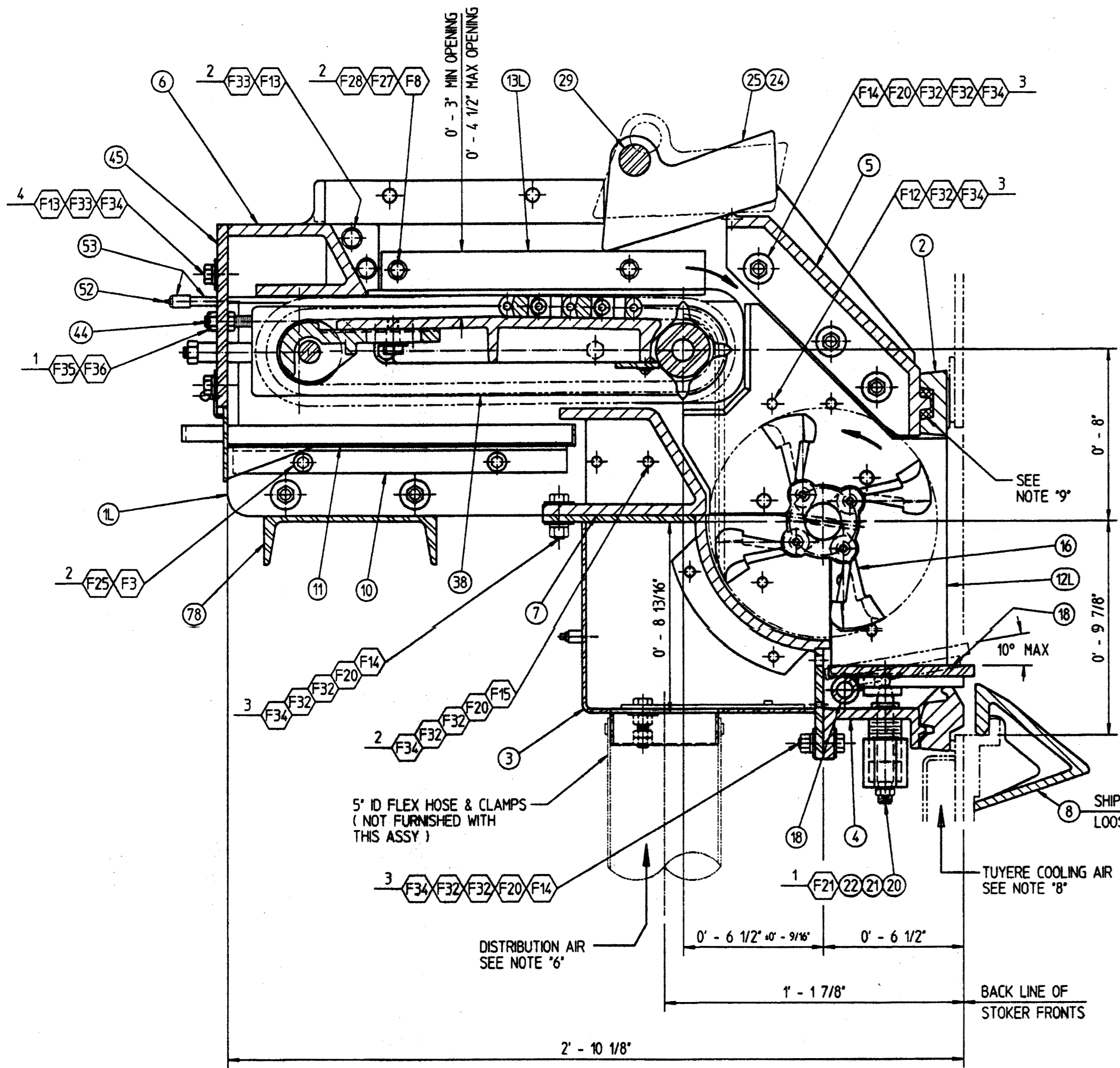
(STOKER NO. 1076, BOILER NO. 2)
SCALE 3" = 1'-0" DATE OCTOBER 5, 1999
DWN Porter CHK JJV APPD [Signature] ENGR [Signature]
JOB NO AB-2212-153-CR-180

REV '40153-D19-2L

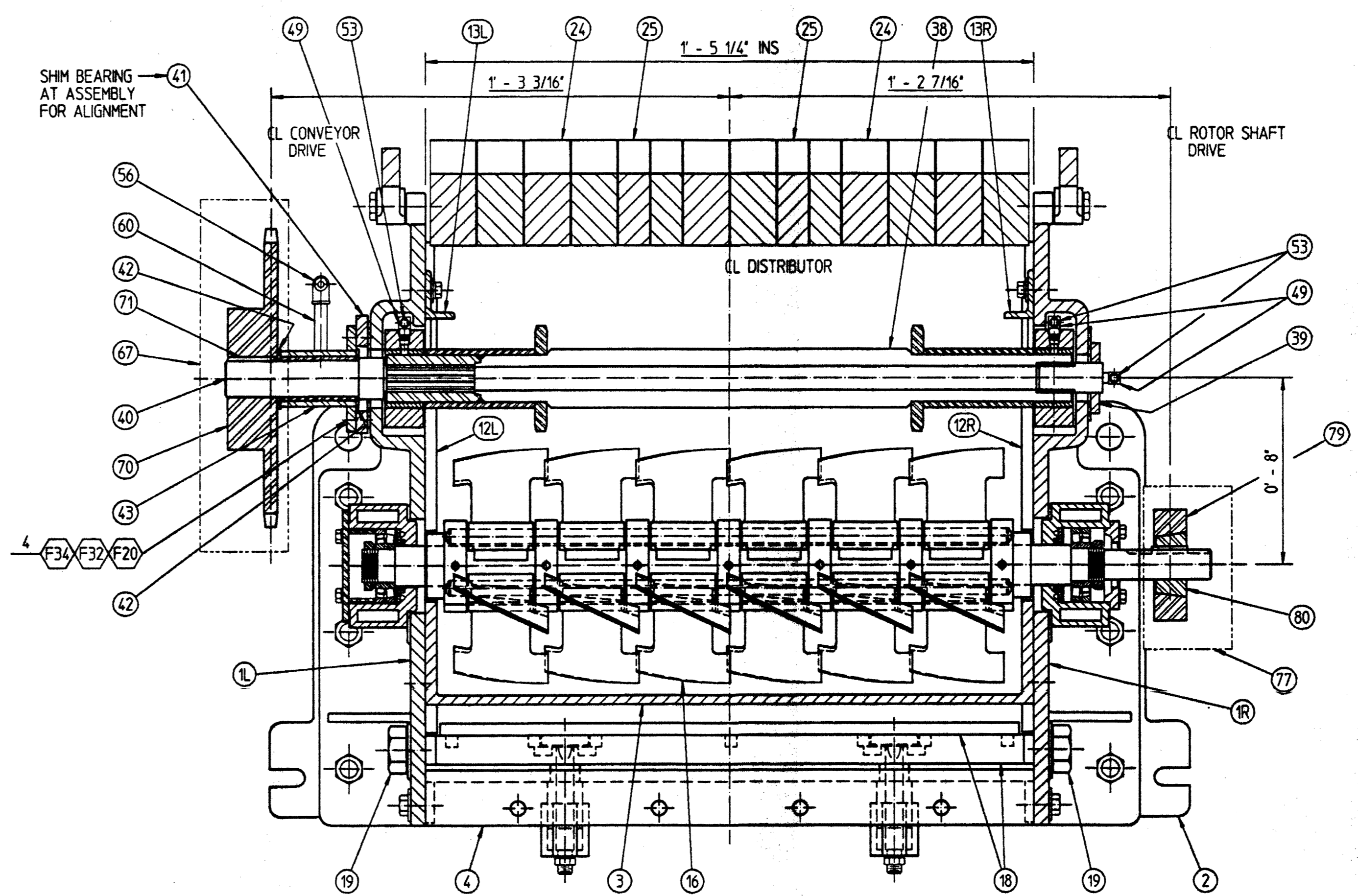
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ISSUE NO	ISSUE NO	0	1	2	3	4	5	6	7	8	9	10
SECTION	DATE	10-25-99										
CHK	REVISION											



- GENERAL NOTES:
- SEE DWG 40153-D19-L FOR FUEL SUPPLY EQUIPMENT ARRANGEMENT.
 - SEE DWG 40153-D19-1L FOR 18" UNDERTHROW COAL DISTRIBUTOR FRONT AND PLAN VIEWS.
 - SEE DWG 40153-D19-2L FOR 18" UNDERTHROW COAL DISTRIBUTOR LH AND RH SIDE VIEWS.
 - SEE DWG 40153-D19-4L FOR 18" UNDERTHROW COAL DISTRIBUTOR BILL OF MATERIAL.
 - ROTOR SHAFT ZERO SPEED SWITCH MUST BE USED IN CONJUNCTION WITH THIS DISTRIBUTOR, BUT IT IS NOT FURNISHED AS PART OF THIS ASSEMBLY.
 - ROTOR SHAFT SPEED: MIN 320 RPM @ 30 HZ
MAX 960 RPM @ 90 HZ
 - DISTRIBUTION AIR REOD:
18" = 325 ACFM @ 20" W.C.
 - TUYERE COOLING AIR REOD:
18" = 150 ACFM @ 6" W.C.
 - SHOP TO APPLY A GENEROUS BEAD OF SILICONE SEALANT, MKD '47', BETWEEN ALL FLANGED CONNECTIONS, AND FILL ALL CAVITIES IN BASE PLATE, MKD '2', AT ASSEMBLY.



SECTION A-1L
3L



SECTION A-2L
3L

TOLERANCES UNLESS OTHERWISE SPECIFIED		
FRACTIONAL ±1/16	1 PLACE DECIMAL ±.010	
METRIC ±1 mm	2 PLACE DECIMAL ±.020	
SURFACE FINISH 125	3 PLACE DECIMAL ±.001	

CAUTION
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18" UNDERTHROW COAL DISTRIBUTOR SECTIONAL VIEWS

DETROIT STOKER COMPANY
 MONROE, MICHIGAN
 1 - B & W FP-98-48 BOILER

UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY
 (STOKER NO. 1076, BOILER NO. 2)

SCALE 3" = 1'-0" DATE OCTOBER 5, 1999
 DWN Porter CHK JJV APPD JJC ENGR JJC
 JOB NO AB-2212-153-CR-180

40153-D19-3L REV 0

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① 18" UNDERTHROW COAL DISTRIBUTOR PART NO AB2212-10 4 - REQD FOR JOB APPROX WT = 1747 LBS EA

MKD	REOD	PART NO	DESCRIPTION	DWG NO
1L	1	900-1345000	LH FEEDER SIDE PLATE	98-13450, 98-13450-1
1R	1	900-1345100	RH FEEDER SIDE PLATE	98-13451, 98-13451-1
2	1	U-4101-A	ROTOR BASE PLATE	U-4101
3	1	980-134530118	ROTOR HOUSING AIR BOX ASSEMBLY W/WEAR LINER, PN 900-134550018	98-13453
4	1	900-134780018	LOWER CROSS MEMBER	98-13478
5	1	900-134700018	UPPER CROSS MEMBER	98-13470
6	1	U-5603-B18	FEEDER TOP COVER	U-5603-1
7	1	900-134490018	CONVEYOR SEAL	98-13449
8	1	981-087760018	APRON TUYERE ARR (SHIPPED LOOSE)	9N-12163
9				
10	2	921-1348400	PAN SUPPORT ANGLE	9S-13484
11	1	921-134870018	FEEDER BOTTOM COVER	98-13487
12L	1	921-1346900R	LH WEAR PLATE	98-13469
12R	1	921-1346900L	RH WEAR PLATE	98-13469
13L	1	921-1208300	LH CONVEYOR CHAIN GUIDE	9S-12083
13R	1	921-1208400	RH CONVEYOR CHAIN GUIDE	9S-12083
14	3	4931	TURNED BOLT (2 3/8" LG)	MS-4931
15	1	4931-1	TURNED BOLT (2 15/16" LG)	
16	1	980-134790118	ROTOR BLADE ASSEMBLY (SHAFT, BLADES, BEARINGS, ETC.)	98-13479
17				
18	1	921-133400018	DISTRIBUTION PLATE	98-13340
19	2	921-12994001	SHOULDER BOLT	9N-12994
20	2	921-1303200	LIFT PIN ADJUSTING NUT	9S-13032
21	2	920-1300700	LIFT PIN BUSHING	9S-13007
22	2	921-13006001	LIFT PIN	9S-13006
23				
24	7	U-5609	THROAT BLADE	U-5609
25	2	U-5610	THROAT BLADE FILLER	U-5610
26	2	U-5612	THROAT BLADE ARM	S-5612
27	2	U-5615	THROAT BLADE CAM	S-5615
28	1	U-5683	CAM ARM	S-5683
29	1	5611-18	THROAT BLADE SHAFT	S-5611
30	1	5687	PIN	S-5687
31	1	5685	THROAT BLADE ADJUSTING SCREW	S-5685
32	1	4290	SECONDARY ADJUSTING PLATE COLLAR	S-4290
33	1	5686-A	GAGE BLOCK	S-5686
34	1	U-5684	THROAT INDICATOR	S-5684
35	1	5402	PIN 1/4" x 1 1/2" TYPE 1 GROOVE	
36	3	629	SHOULDER SCREW	U-512
37	3	5707	KEY 3/8" SQ x 1" LG	MB-90
38	1	980-134720118	CONVEYOR ASSEMBLY	98-13472
39	1	921-1310300	CONVEYOR DRIVE STUB SHAFT	9S-13103
40	1	921-1309902	CONVEYOR SPLINED DRIVE SHAFT	9S-13099
41	1	921-1316700	DRIVE MOUNTING BRACKET	98-13167
42	2	950-1310200	THRUST WASHER (2 1/2" OD X 1 1/2" ID X 1/8" THK)	9N-13102
43	1	921-1310000	DRIVE SHAFT BEARING	9S-13100
44	2	921-1348000	CONVEYOR ADJUSTING BOLT	9S-13480
45	1	921-1317000181	FEEDER FRONT COVER	98-13170
46	1	950-1347100	NAME PLATE	9S-13471
47	3	950-1343500	HIGH TEMP. SILICONE SEALANT (11 OZ TUBE)	9N-13435
48				
49	3	10309-1	GREASE FITTING ADAPTOR	MM-75
50	2	6112	GREASE FITTING BRACKET	S-6112
51	1	1750-1180900	1/4" GREASE FITTING	MM-75
52	5	850-H	1/8" GREASE FITTING	MM-75
53	3	5680-1	GREASE PIPE	S-5680-1
54	2	6132-3	3/8" SCH 40 PIPE SHORT NIPPLE (1 1/2" LG)	
55	4	6150-3	3/8" STD 45° ELBOW	
56	1	6153-2	1/4" STD 90° ELBOW	
57	2	950-12853003	1/4" OD TUBE TO 1/8" NPT 90° MALE ELBOW	9N-12853
58	1	6185-2	1/4" PIPE COUPLING	
59	2	6149-24	3/8" SCH 40 PIPE NIPPLE x 3" LG (THD BOTH ENDS)	
60	1	6134-22	1/4" SCH 40 PIPE x 2 3/4" LG (THD BOTH ENDS)	
61	1	6134-200	1/4" SCH 40 PIPE x 2" - 1" LG (THD BOTH ENDS)	
62	1	1-000-641-9	1/4" COPPER TUBING x 5' - 0" LG (2 - PC, CUT TO LG)	
63	2	AU-321-A	CONNECTOR 1/4" OD TUBE TO 1/8" NPT MALE	9N-10807
64	4	9659-4x3	1/2" x 3/8" HEADLESS REDUCER BUSHING	
65				
67	1	921-1316601	LH DRIVE GUARD	98-13166
68	1	950-1316400	FLANGED RIGHT ANGLE GEAR REDUCER (60 : 1)	9N-13164
69	1	950-1250700	10T NO 80 ROLLER CHAIN SPROCKET	9N-12507

MKD	REOD	PART NO	DESCRIPTION	DWG NO
70	1	8180-36246	36T NO 80 ROLLER CHAIN SPROCKET	
71	2	1515	KEY 3/8" SQ x 2" LG	MB-90
72	1	697-B	OFFSET LINK	
73	90	696-B	NO 80 ROLLER CHAIN 90" LG	
74	1	697-C	CONNECTING LINK	
75	1	950-1343400	TOSHIBA, 1 HP, 1200 RPM, T.E.F.C., 145T FRAME, 3 PH, 60 HZ, 230/460 VAC PREMIUM EFFICIENCY MOTOR, FOOT MOUNTED, CLASS "F" INSULATION	9N-13434
76	1	950-1336101	SINGLE REDUCTION SPEED REDUCER	9N-13361
77	1	921-1348300	ROTOR SHAFT DRIVE GUARD	98-13483
78	1	921-1334600118	RH DRIVE BRACKET	98-13346
79	1	950-127710030	1/2" PITCH X 1" WIDE TIMING BELT PULLEY (30H100)	9N-12771
80	1	950-1277200204	BUSHING 2012 (Ø 1 1/4" BORE W/ 1/4 X 1/8 KEYSEAT)	9N-12772
81	1	950-127710016	1/2" PITCH X 1" WIDE TIMING BELT PULLEY (16H100)	9N-12771
82	1	950-1289200143	BUSHING 1008 (Ø 7/8" BORE W/ 3/16 X 3/32 KEYSEAT)	9N-12892
83	1	950-1277300800	1/2" PITCH X 1" WIDE TIMING BELT (800H100)	9N-12773
84	1	950-1343300	TOSHIBA, 1 HP, 1200 RPM, T.E.F.C., 145TC FRAME, 3 PH, 60 HZ, 230/460 VAC PREMIUM EFFICIENCY MOTOR, C-FACE FOOTLESS, CLASS "F" INSULATION	9N-13433

MKD	REOD	PART NO	DESCRIPTION
F1	4	1-034-029-7	NO 6 X 3/8" LG SS DRIVE SCREW
F2	1	1-001-788-7	3/16" X 1 1/2" LG COTTER PIN
F3	6	1-002-440-9	5/16" X 5/8" LG HEX HD CAP SCREW
F4	2	1-002-405-0	5/16" X 1" LG HEX HD CAP SCREW
F5	4	1-002-383-6	5/16" X 1 1/2" LG HEX HD CAP SCREW
F6			
F7	2	1-029-780-4	3/8" X 3/4" LG SHOULDER THUMB SCREW
F8	6	1-002-280-5	3/8" X 1" LG HEX HD CAP SCREW
F9	10	1-002-291-0	3/8" X 1 1/2" LG HEX HD CAP SCREW
F10	4	1-033-829-2	7/16" X 1 1/4" LG HEX HD CAP SCREW
F11	1	1-002-103-5	1/2" X 1 3/4" LG SQ HD CUP PT. SET SCREW
F12	8	1-002-089-6	1/2" X 1 1/4" LG HEX HD CAP SCREW
F13	8	1-002-078-0	1/2" X 1 1/2" LG HEX HD CAP SCREW
F14	21	1-002-100-0	1/2" X 1 3/4" LG HEX HD CAP SCREW
F15	6	1-002-147-7	1/2" X 2" LG HEX HD CAP SCREW
F16	6	1-033-349-5	1/2" X 3 1/4" LG HEX HD CAP SCREW (GRD 5)
F17	2	1-002-264-3	3/4" X 2 3/4" LG HEX HEAD CAP SCREW
F18	4	1-001-676-7	5/16" HEX NUT
F19	2	1-001-667-8	3/8" HEX NUT
F20	30	W-4850	1/2" HEX NUT
F21	3	1-001-621-0	1/2" HEX JAM NUT
F22	2	W-1041	3/4" LOCK WASHER
F23	1	1-001-648-1	3/4" HEAVY SLOTTED HEX NUT
F24	6	1-001-654-6	3/4" HEX JAM NUT
F25	10	1-012-210-9	5/16" FLAT WASHER
F26	6	1-002-782-3	5/16" LOCK WASHER
F27	9	1-002-777-7	3/8" FLAT WASHER
F28	12	1-002-778-5	3/8" LOCK WASHER
F29	1	1-035-183-3	3/8" BEVEL WASHER
F30	4	1-002-787-4	7/16" FLAT WASHER
F31	4	1-002-788-2	7/16" LOCK WASHER
F32	65	1-002-759-9	1/2" FLAT WASHER
F33	8	1-028-079-0	1/2" SAE WASHER
F34	49	1-002-755-6	1/2" LOCK WASHER
F35	2	1-001-623-6	1/2" SLOTTED HEX NUT
F36	2	W-1181	1/8" X 3/4" LG COTTER PIN

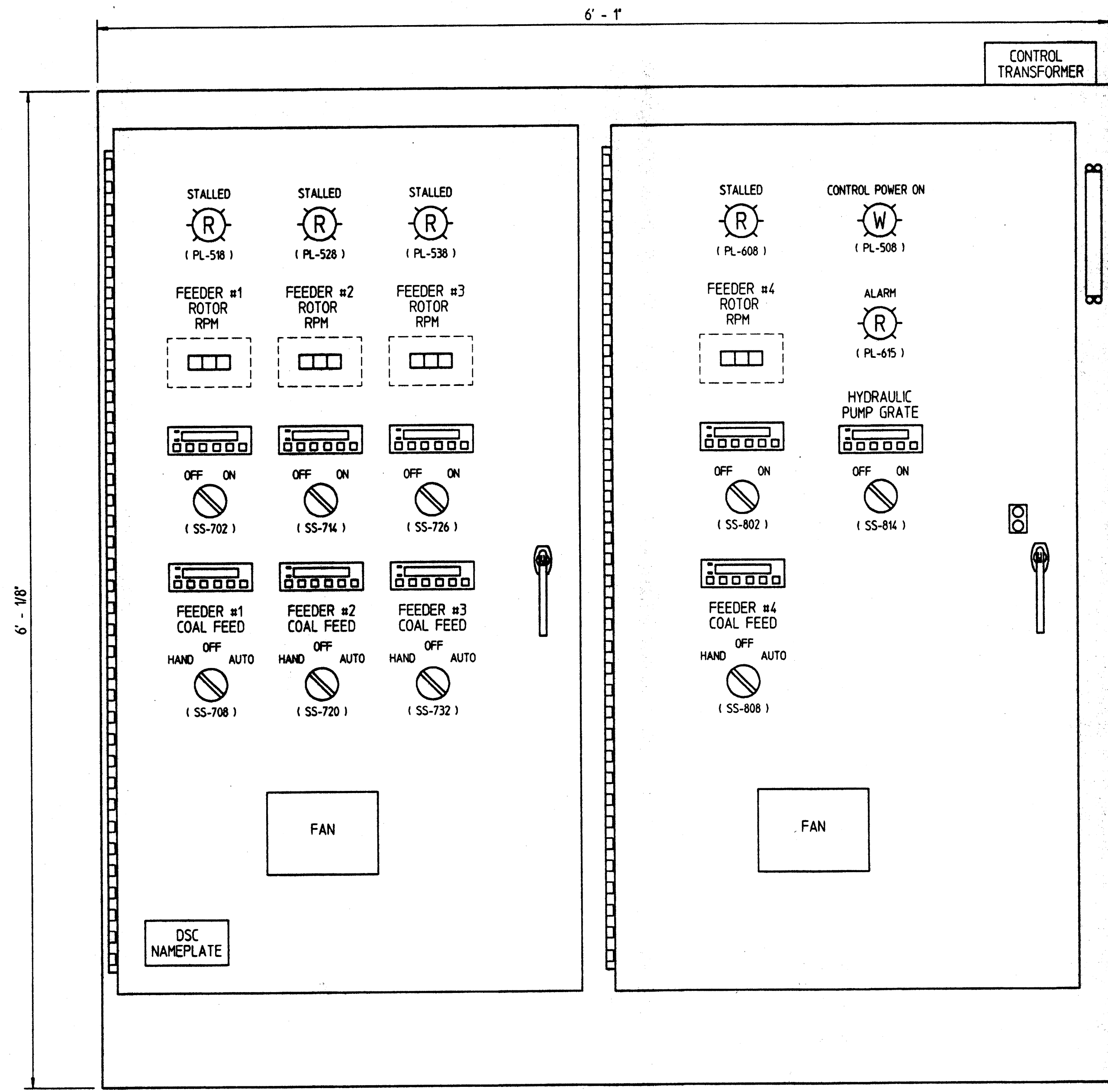
NOTE 'A'
ALL ITEMS EXCEPT MKD '67' THRU '69', (1) '71', '72' THRU '75', '77' THRU '84', 'F5', (2) 'F8', 'F9', 'F10', (4) 'F14', 'F18', 'F19', (4) 'F20', (4) 'F25', (4) 'F26', (5) 'F27', (4) 'F28', 'F29', 'F30', 'F31', (8) 'F32', (4) 'F34', '100', '101', AND '102' MAKE UP ASSY NO 980-135100018, 18" UNDERTHROW COAL DISTRIBUTOR WITHOUT DRIVES.

- NOTES :
- SEE DWG 40153-D19-L FOR FUEL SUPPLY EQUIPMENT ARRANGEMENT.
 - SEE DWG 40153-D19-1L FOR 18" UNDERTHROW COAL DISTRIBUTOR FRONT AND PLAN VIEWS.
 - SEE DWG 40153-D19-2L FOR 18" UNDERTHROW COAL DISTRIBUTOR LH AND RH SIDE VIEWS.
 - SEE DWG 40153-D19-3L FOR 18" UNDERTHROW COAL DISTRIBUTOR SECTIONAL VIEWS AND GENERAL NOTE.

TOLERANCES	
UNLESS OTHERWISE SPECIFIED	
FRACTIONAL \pm 1/16	1 PLACE DECIMAL \pm .005
METRIC \pm 1 mm	2 PLACE DECIMAL \pm .005
SURFACE FINISH 125	3 PLACE DECIMAL \pm .005
CAUTION	
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F INDICATES NOT FURNISHED BY DSC. DO NOT SCALE USE DIMENSIONS ONLY. DO NOT USE FOR CONSTRUCTION UNLESS APPROVED BELOW.	
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18" UNDERTHROW COAL DISTRIBUTOR BILL OF MATERIAL	
DETROIT STOKER COMPANY MONROE, MICHIGAN 1 - B & W PP-18-48 BOILER	
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY	
(STOKER NO. 1076, BOILER NO. 2)	
SCALE	NONE
DATE	OCTOBER 5, 1999
OWN	Portler
CHK	JUV
APPR	[Signature]
ENGR	[Signature]
JOB NO	AB-2212-153-CR-180
40153-D19-4L	

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	DATE	10-1-99										
SECTION	CHK	REVISION										



STOKER CONTROL PANEL
 NEMA 12, FREE STANDING, 72.125'h X 73"w X 18.125"d
 PART NO AB2212-6 1 - REQD FOR JOB

REQD	SUPPLIER	SUPPLIER PART NO	DESCRIPTION
1	CEC OR EQUAL	12FMRH-072-073-018-DDUF	ENCLOSURE, NEMA 12 DUST-TIGHT
1	CEC	ADPLD-S0	ADAPTER
5	AB	800T-H2A2	SELECTOR SWITCH, 2 POSITION
4	AB	800T-H2A3	SELECTOR SWITCH, 3 POSITION
9	AB	1492-CB3G150	CIRCUIT BREAKER, 15A, 3 POLE
3	AB	1492-CB1G150	CIRCUIT BREAKER, 15A, 1 POLE
1	ITE	ED43-B100L	CIRCUIT BREAKER, 100A, 3 POLE
1	ITE	FHOE036	DISCONNECT
1	GOULD	66563	DISTRIBUTION BLOCK
3	GOULD	08570	DISTRIBUTION BLOCK COVER
9	TOSHIBA	VFS7-402ZUPL	DRIVE
9	TOSHIBA	S7-01S	KEYPAD W/ 2m CABLE
9	TOSHIBA	CAB-0013-0	CABLE, 3m
150	AB	1492-W4	TERMINAL BLOCK
300	AB	1492-SM6X12	TERMINAL MARKER
4	PHARES	PE-2	TACHOMETER
1	AB	800T-AZ01	PUSHBUTTON
1	FEDERAL	350-120-30	ALARM HORN
2	HOFFMAN	A-PA4XFN	4" FAN KIT
2	HOFFMAN	A-EXGR4	4" EXHAUST GRILLE
1	HOFFMAN	A-TEMNO	THERMOSTAT
5	AB	800T-P16R	PILOT LIGHT, RED
1	AB	800T-P16W	PILOT LIGHT, WHITE
1	SOAURE D	-	TRANSFORMER, 120 VA

TOLERANCES
 UNLESS OTHERWISE SPECIFIED
 FRACTIONAL ±1/16 1 PLACE DECIMAL ±0.005
 METRIC ±1 mm 2 PLACE DECIMAL ±0.010
 SURFACE FINISH 125 3 PLACE DECIMAL ±0.001

CAUTION
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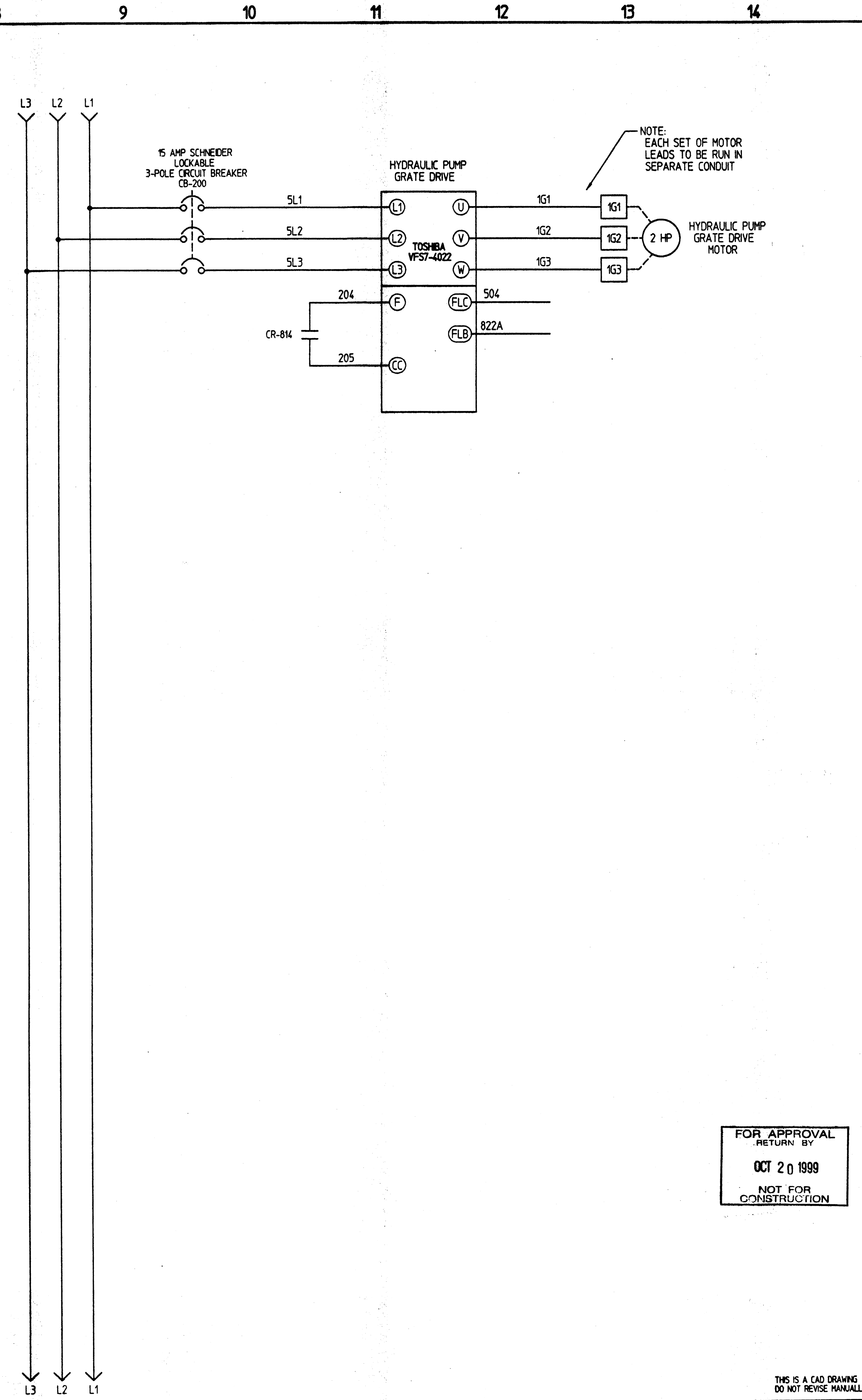
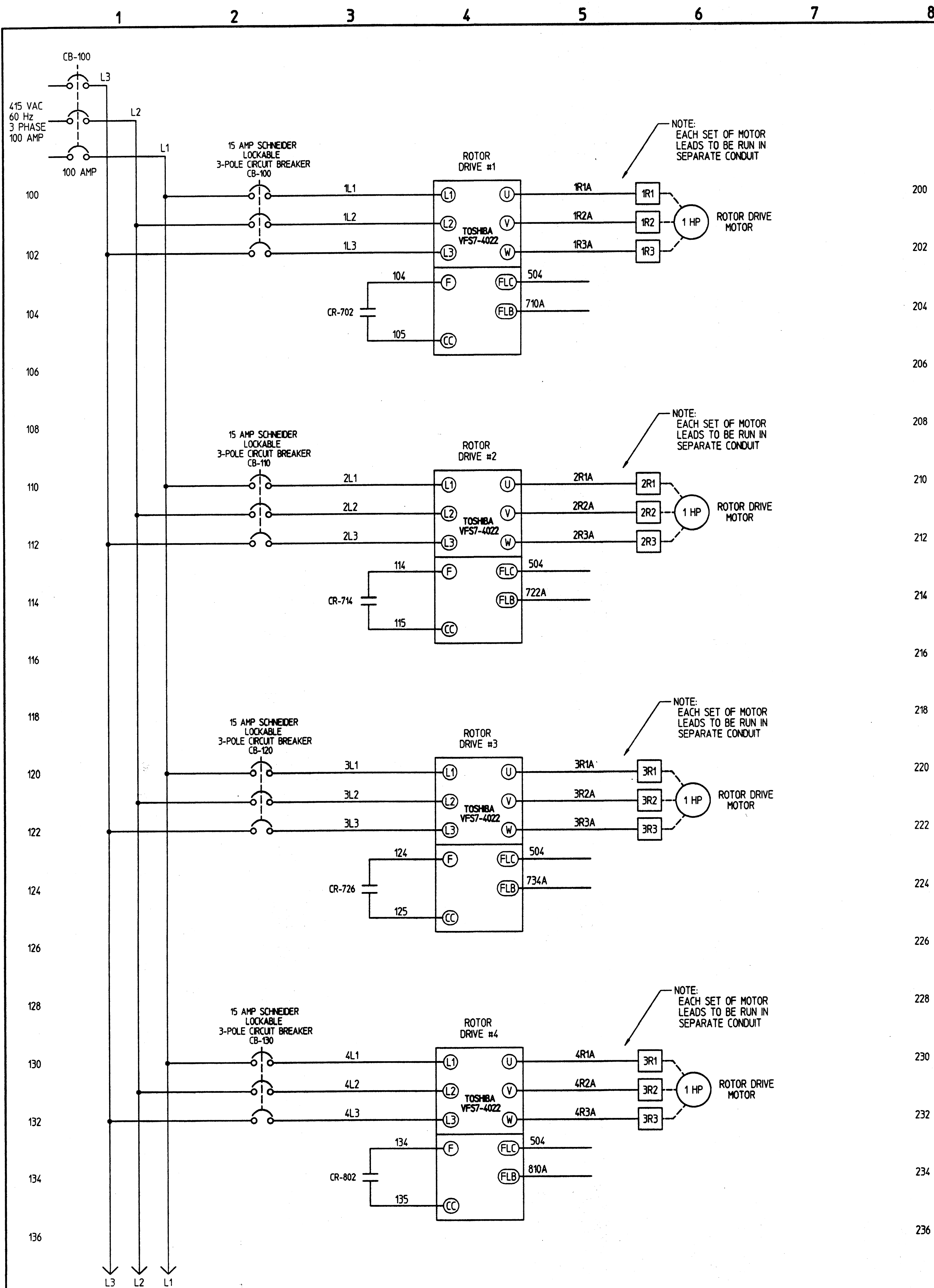
STOKER CONTROL PANEL
 DETROIT STOKER COMPANY
 MONROE, MICHIGAN
 1 - B & W PP-8-68 BOLER

UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

(STOKER NO. 1076, BOILER NO. 2)
 SCALE 2" = 1'-0" DATE OCTOBER 1, 1999
 DWN Porter CHK JRC APPD JEB ENGR JEB
 JOB NO AB-2212-153-CR-180

40153-D20-L

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- LEGEND
- PANEL WIRING
 - - - FIELD WIRING
 - 5 PLC PANEL TERMINAL
 - WIRE CONNECTION

TOLERANCES
UNLESS OTHERWISE SPECIFIED

FRACTIONAL ±1/16	1 PLACE DECIMAL ±.005
METRIC ±1 mm	2 PLACE DECIMAL ±.010
SURFACE FINISH 125	3 PLACE DECIMAL ±.001

CAUTION
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ELECTRICAL POWER SCHEMATIC

DETROIT STOKER COMPANY
MONROE, MICHIGAN
1 - B & N PP-18-18 BOILER

UNIVERSITY OF KENTUCKY
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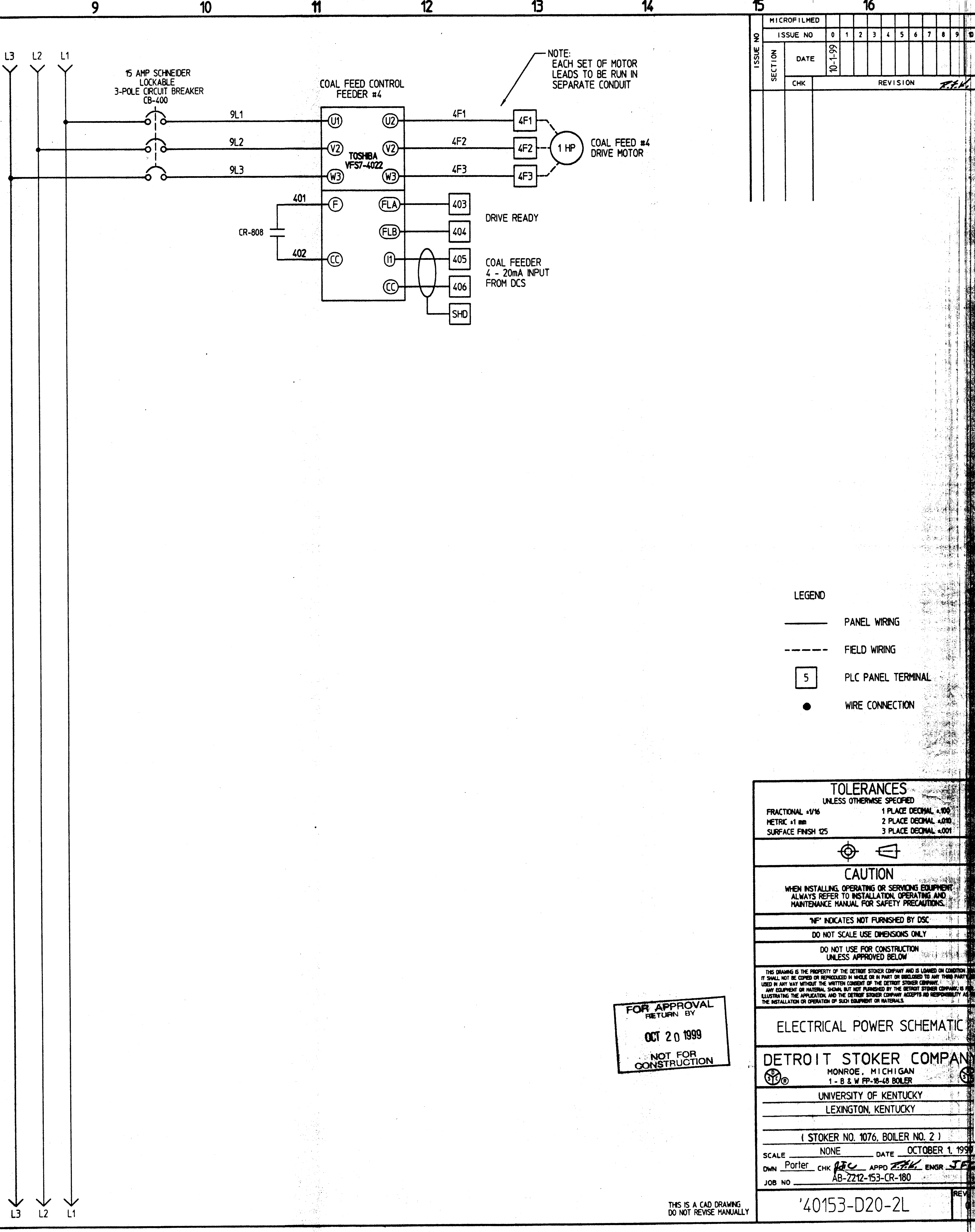
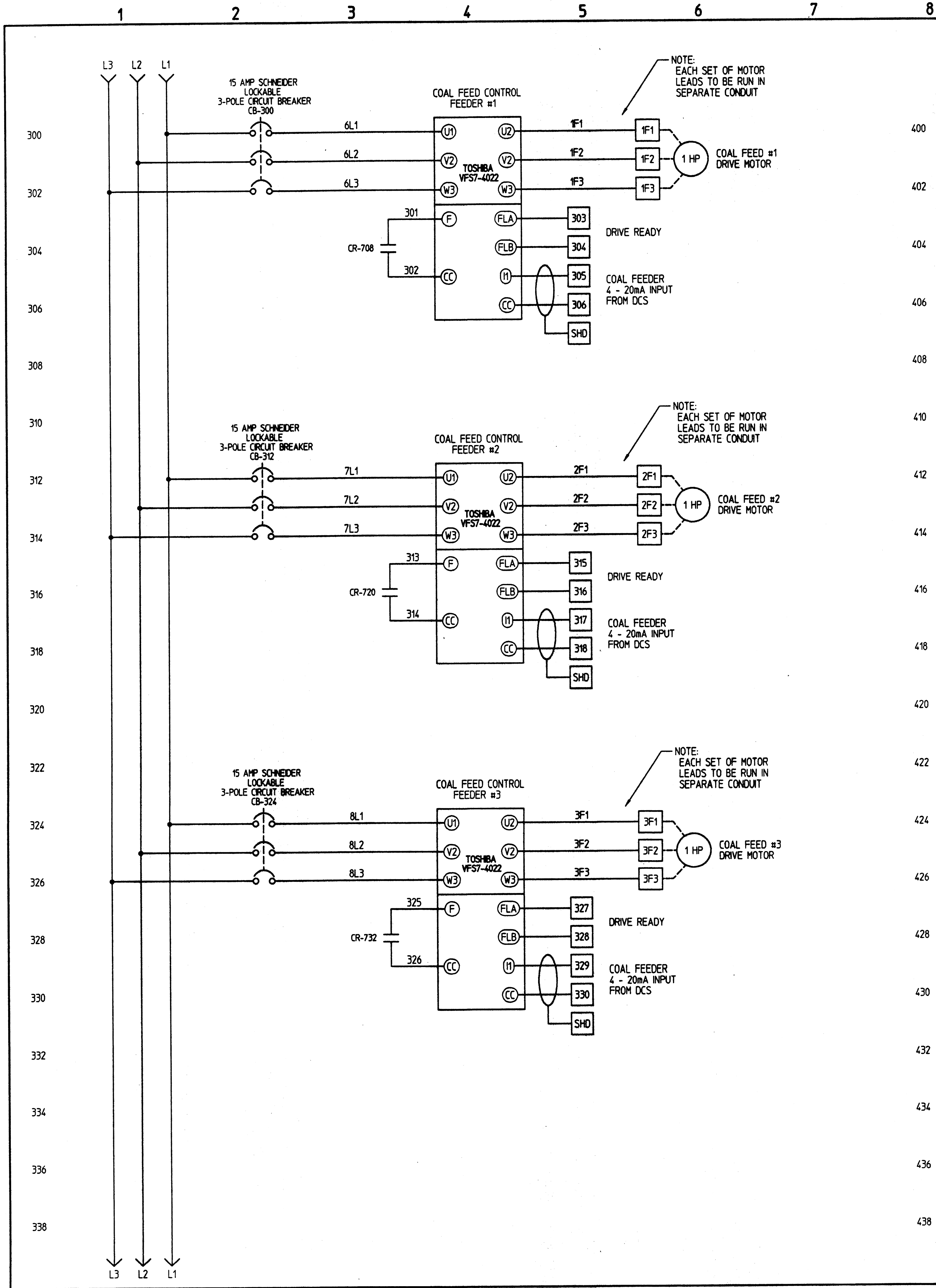
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JOB NO AB-2212-153-CR-180

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TOLERANCES UNLESS OTHERWISE SPECIFIED

FRACTIONAL 1/16	1 PLACE DECIMAL ±.005
METRIC ±1 mm	2 PLACE DECIMAL ±.020
SURFACE FINISH 125	3 PLACE DECIMAL ±.001

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ELECTRICAL POWER SCHEMATIC

DETROIT STOKER COMPANY
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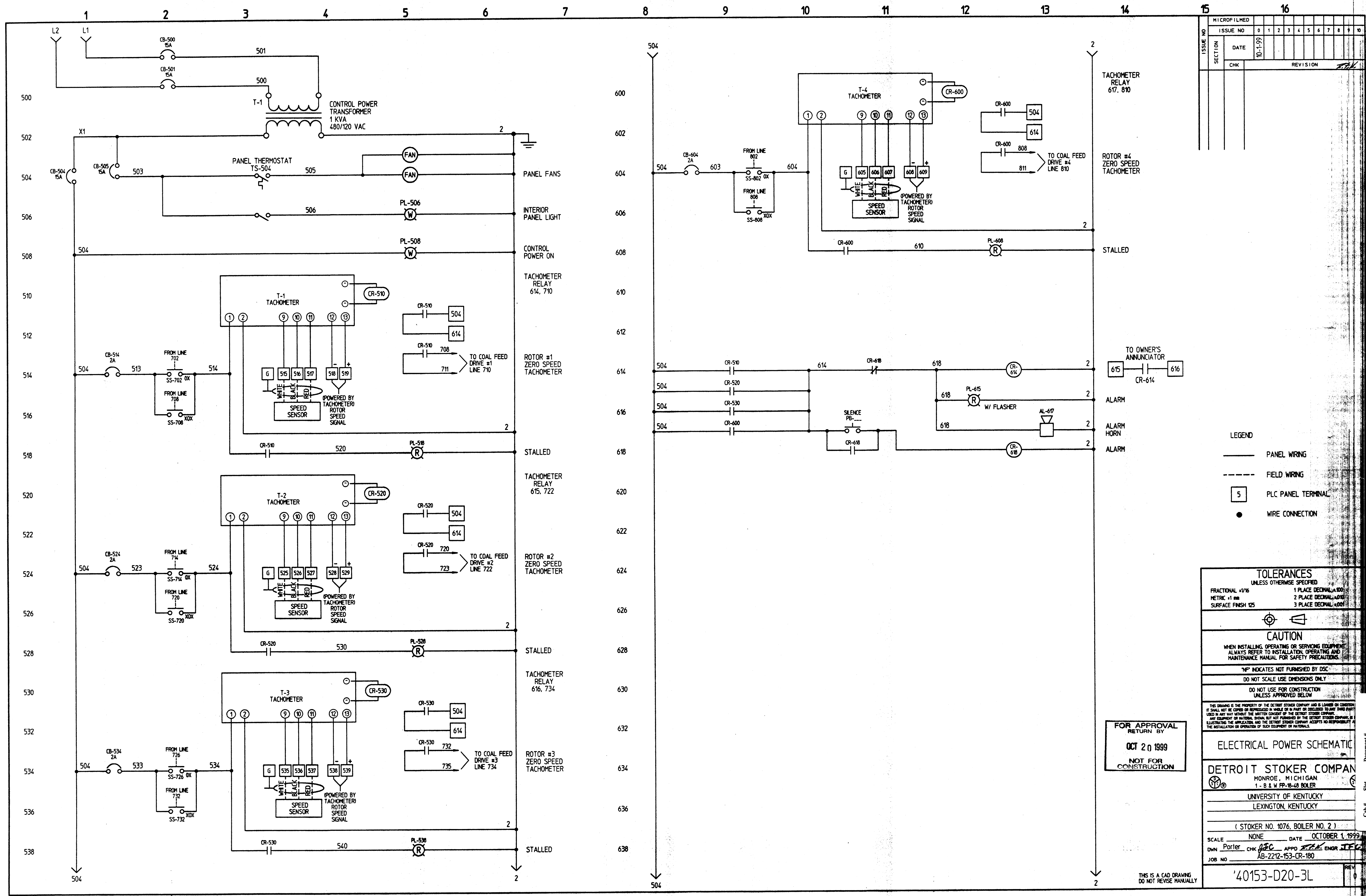
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 - WIRE CONNECTION

TOLERANCES
UNLESS OTHERWISE SPECIFIED

FRACTIONAL ±1/16	1 PLACE DECIMAL ±.001
METRIC ±1 mm	2 PLACE DECIMAL ±.01
SURFACE FINISH 125	3 PLACE DECIMAL ±.001

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DETROIT STOKER COMPANY
MONROE, MICHIGAN
1 - B & W FP-18-48 BOILER

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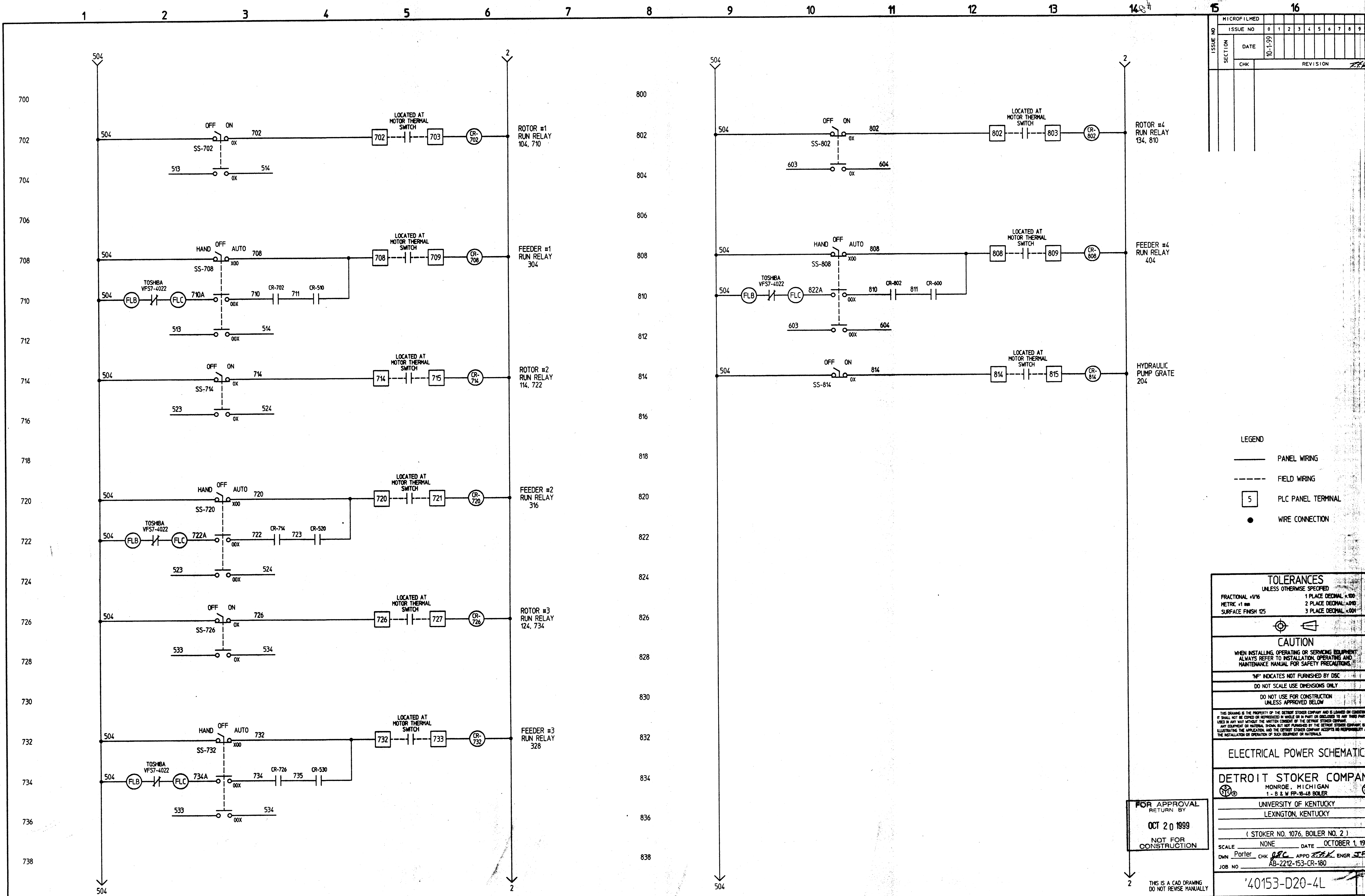
(STOKER NO. 1076, BOILER NO. 2)

SCALE NONE DATE OCTOBER 1, 1999
OWN Porter CHK JPC APPD JFC ENGR JFC
JOB NO AB-2212-153-CR-180

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TOLERANCES
UNLESS OTHERWISE SPECIFIED

FRACTIONAL ±1/16	1 PLACE DECIMAL ±.005
METRIC ±1 mm	2 PLACE DECIMAL ±.010
SURFACE FINISH 125	3 PLACE DECIMAL ±.001

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ELECTRICAL POWER SCHEMATIC

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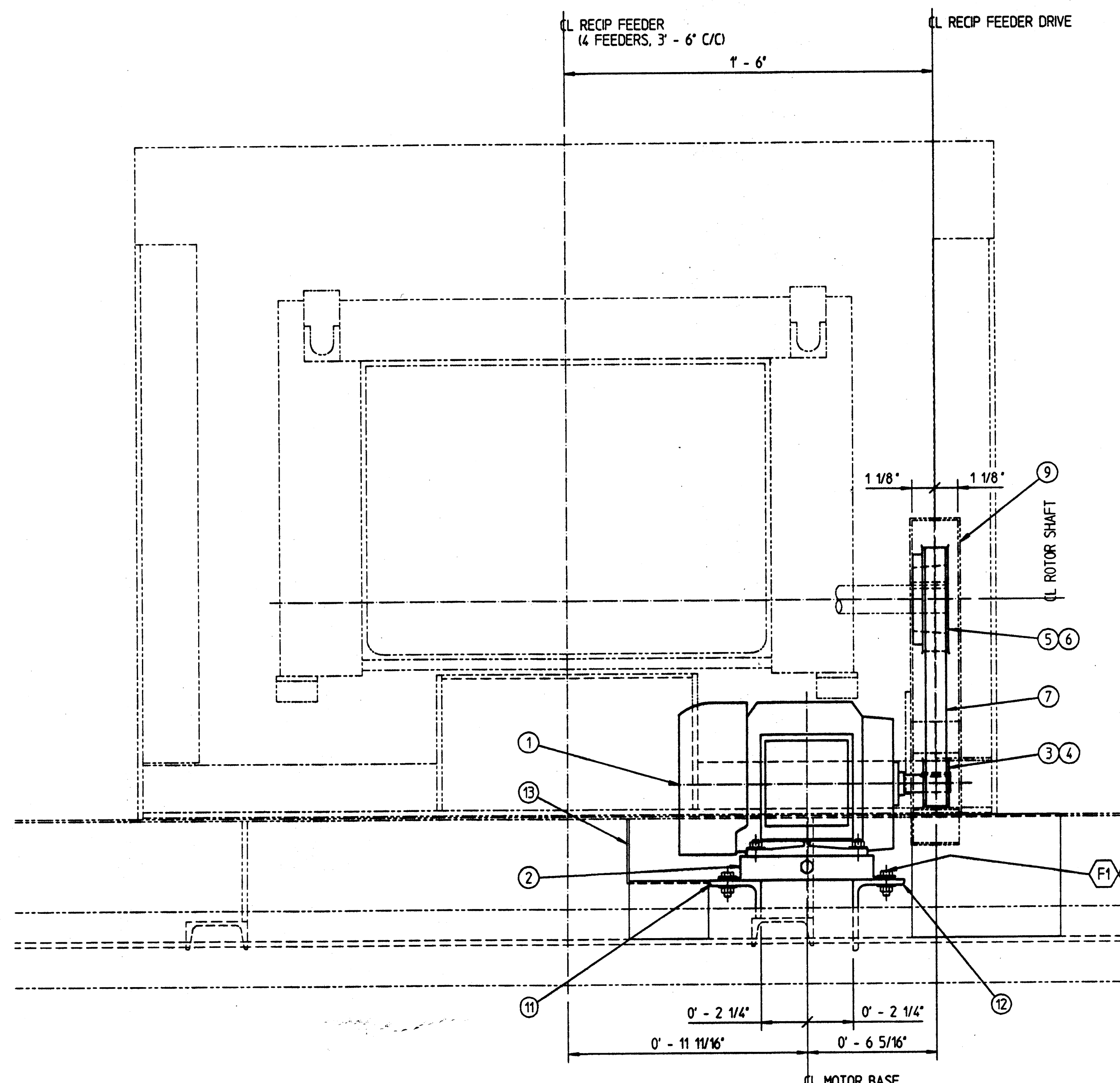
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JOB NO AB-2212-153-CR-180

40153-D20-4L

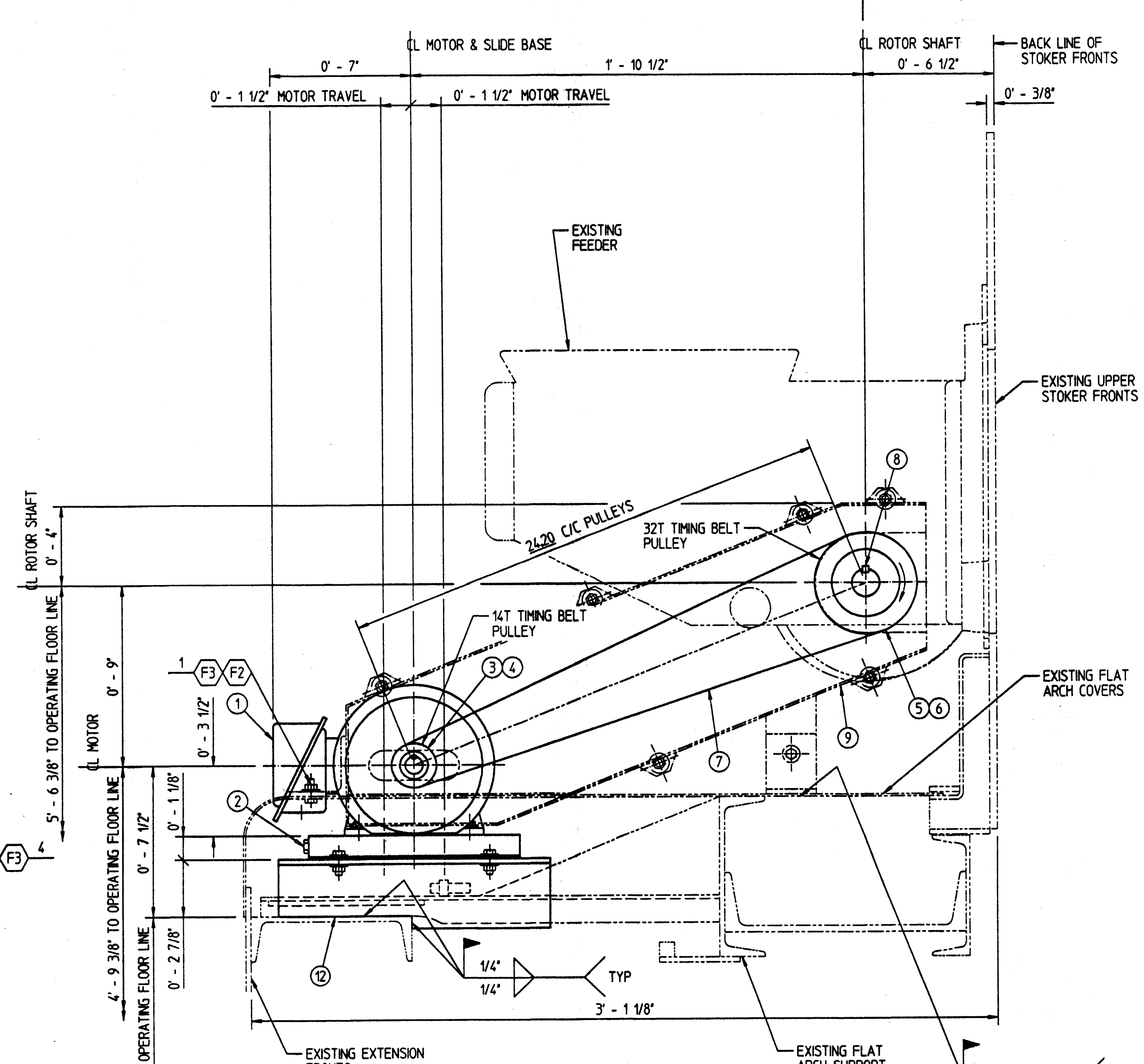
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ISSUE NO	SECTION	DATE	REVISION
1	J BROWN	11-23-98	ITEM MKD "14" WAS NEMA 4
2	J BROWN	1-27-99	REVISED ILLUSTRATION OF RECIP FEEDER GUARD, ITEM MKD "9" TOTAL WT FOR ARR WAS 135 LBS EA
		7-14-99	ITEM MKD "9" WAS PN AB2176-1
			ITEM MKD "10" WAS DELETED
			ITEM MKD "F2" WAS 5 REED
			ITEM MKD "F3" WAS 5 REED



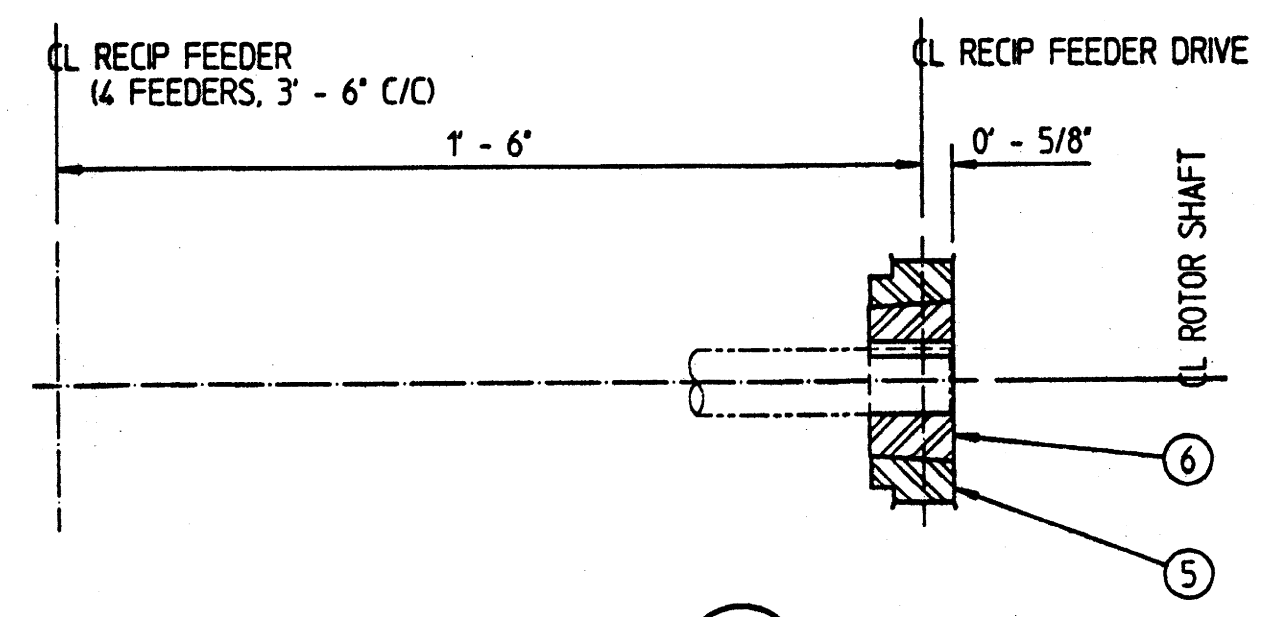
FRONT VIEW
WITH FEEDER REMOVED



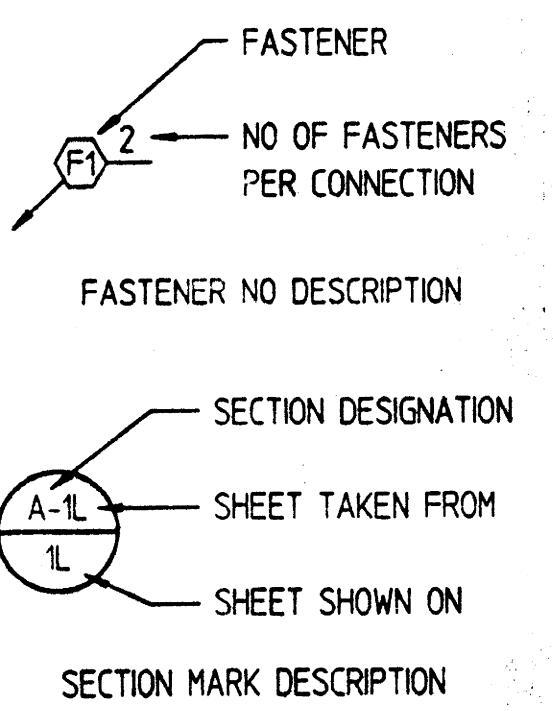
RH SIDE VIEW

INDIVIDUAL FEEDER DRIVE ARRANGEMENT, 4 - ARRANGEMENTS REQD FOR JOB (110 LBS EA)

MKD	REQD	PART NO	DESCRIPTION	DWG NO	LBS EA
1	1	950-1343400	TOSHIBA, 1 HP, 1200 RPM, TEFC, 145T FRAME, 3 PH, 60 HZ, 230/460 VAC MOTOR W/THERMAL OVERLOAD	9N-13434	63
2	1	950-12769004	OVERLY-HAUTZ MOTOR BASE, MODEL NO 145	9N-12769	6.0
3	1	950-127710014	1/2" PITCH TB14H100 TIMING BELT PULLEY (DRIVE)	9N-12771	0.8
4	1	950-1289200143	TL BUSHING #1008 (WITH 7/8" BORE, 3/16" X 3/32" KEYWAY)	9N-12892	0.2
5	1	950-127710032	1/2" PITCH TB32H100 TIMING BELT PULLEY (DRIVEN)	9N-12771	4.3
6	1	950-1313000225	TL BUSHING #2517 (WITH 1 3/8" BORE, 5/16" X 5/32" KEYWAY)	9N-13130	3.2
7	1	950-1277300600	600H100 TIMING BELT (180° F MAX AMBIENT TEMP RUNNING)	9N-12773	---
8	1	4619-1	5/16" SQ KEY X 1 3/4" LG	MB-90	---
9	1	AB2176-18	RECIPROCATING FEEDER GUARD	40153-D15-4L	22
10	1	AB2176-2	SLIDE SUPPORT BRACKET	40153-D15-3L	4.0
11	1	AB2176-3	SLIDE BASE SUPPORT ANGLE	40153-D15-3L	4.0
12	1	AB2176-4	SLIDE BASE SUPPORT ANGLE	40153-D15-3L	5.2
13	1		FLAT ARCH COVER MODIFICATION ARRANGEMENT	40153-D15-1L	---
14	1	AB2176-5	STOKER AND FEEDER DRIVE CONTROL PANEL (NEMA 12) (NOT SHOWN)	40153-D17-L	---
FASTENERS					
F1	5	1-002-405-0	5/16" X 1" LG HHCS		
F2	6	1-001-676-7	5/16" HN		
F3	6	1-012-210-9	5/16" FW		



SECTION A-L
CERTIFIED FOR
JUL 15 1999
CONSTRUCTION



- NOTES:
- SEE DWG 40153-D16-L FOR HYDRAULIC GRATE DRIVE MODIFICATIONS.
 - ROTOR SHAFT SPEED DETERMINES DEPTH OF COAL THROW.
 - NOMINAL ROTOR SHAFT SPEED FOR GRATE LENGTH OF 10' - 11 1/8" = 430 RPM.
 - MAX ROTOR SHAFT SPEED = 1008 RPM @ 120 HZ
NOM ROTOR SHAFT SPEED = 504 RPM @ 60 HZ
MIN ROTOR SHAFT SPEED = 428.4 RPM @ 51 HZ

TOLERANCES UNLESS OTHERWISE SPECIFIED

FRACTIONAL ±1/16	1 PLACE DECIMAL ±.010
METRIC ±1 mm	2 PLACE DECIMAL ±.010
SURFACE FINISH 125	3 PLACE DECIMAL ±.001

CAUTION
WHEN INSTALLING, OPERATING OR SERVICING EQUIPMENT ALWAYS REFER TO INSTALLATION, OPERATING AND MAINTENANCE MANUAL FOR SAFETY PRECAUTIONS.

DO NOT SCALE USE DIMENSIONS ONLY
DO NOT USE FOR CONSTRUCTION UNLESS APPROVED BELOW

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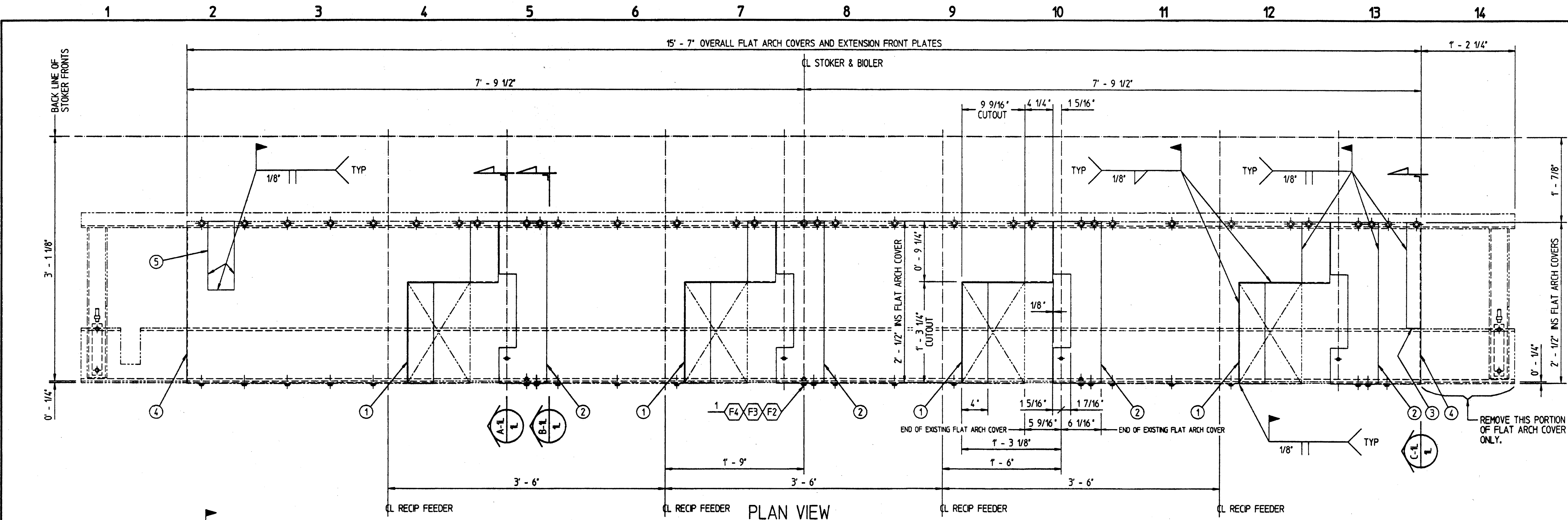
INDIVIDUAL FEEDER DRIVE ARRANGEMENT

DETROIT STOKER COMPANY
MONROE, MICHIGAN
1 - B & W FP-18-48 BOILER

UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

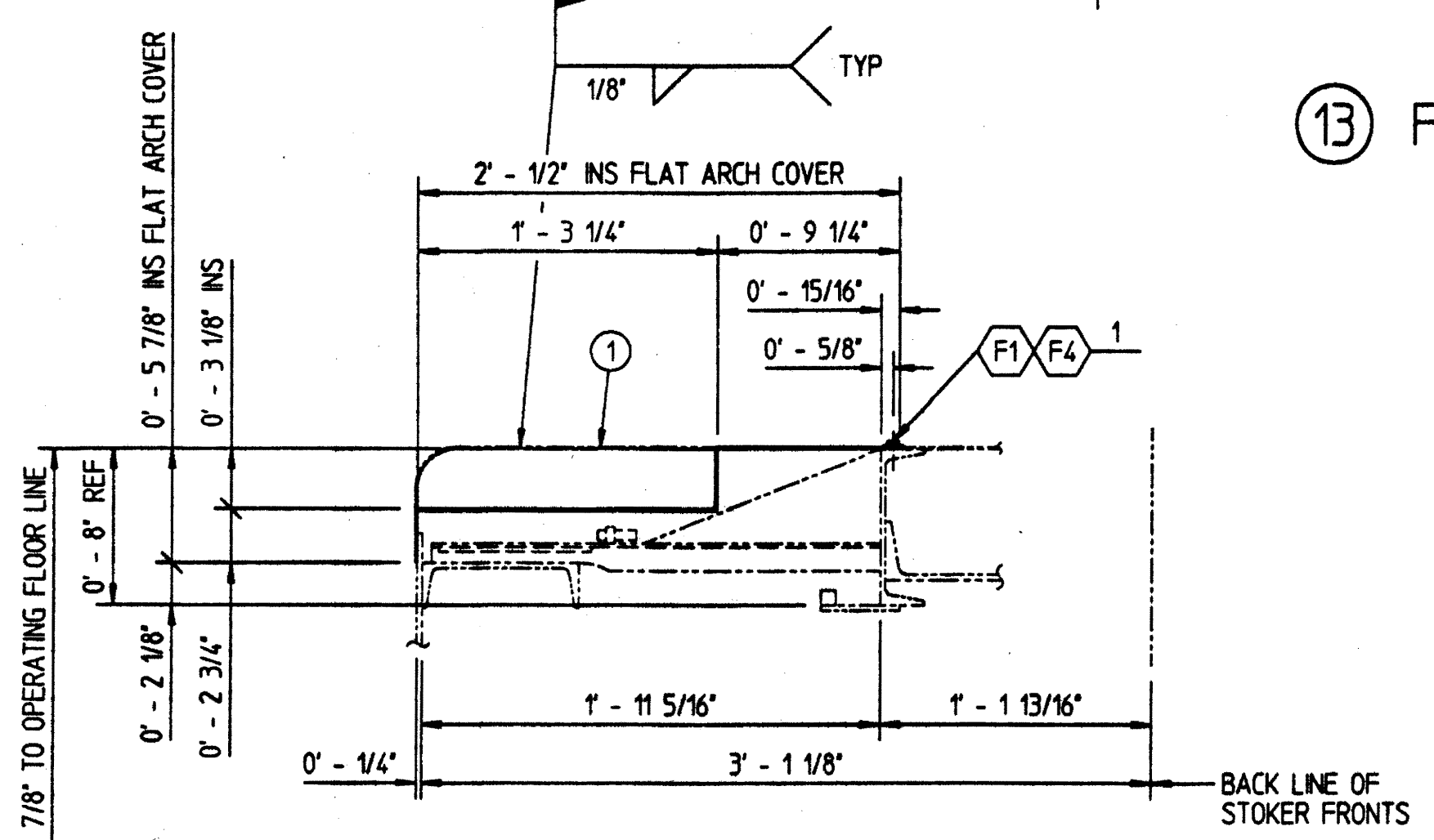
SCALE 3" = 1'-0" DATE 11-23-98
DWN J BROWN CHK J BROWN APPD RFK ENGR JFC
JOB NO AB-2176-153-CR-180

'40153-D15-L REV 2

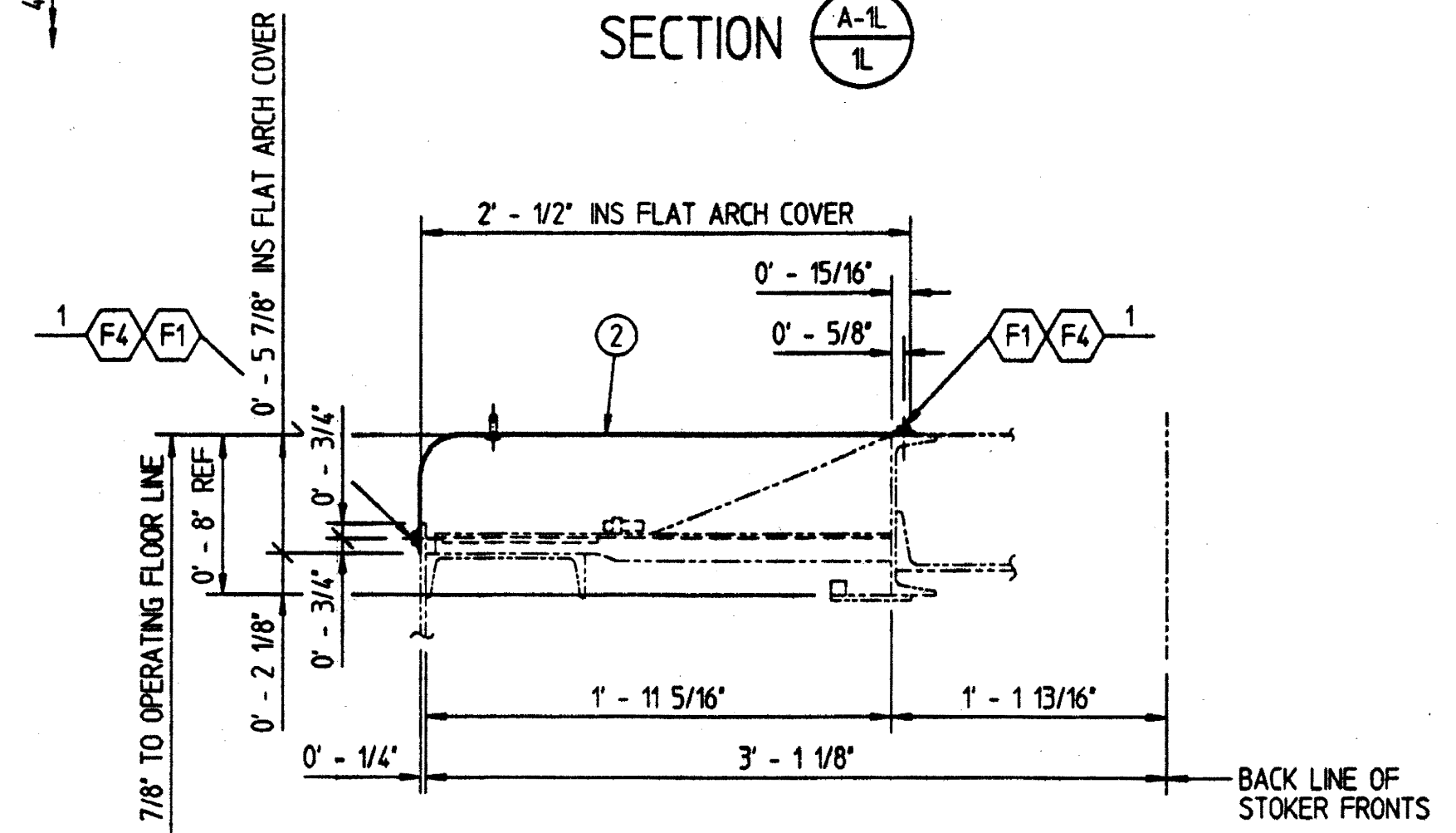


13 FLAT ARCH COVER MODIFICATION ARRANGEMENT, 1 - REQD FOR JOB, (61 LBS)

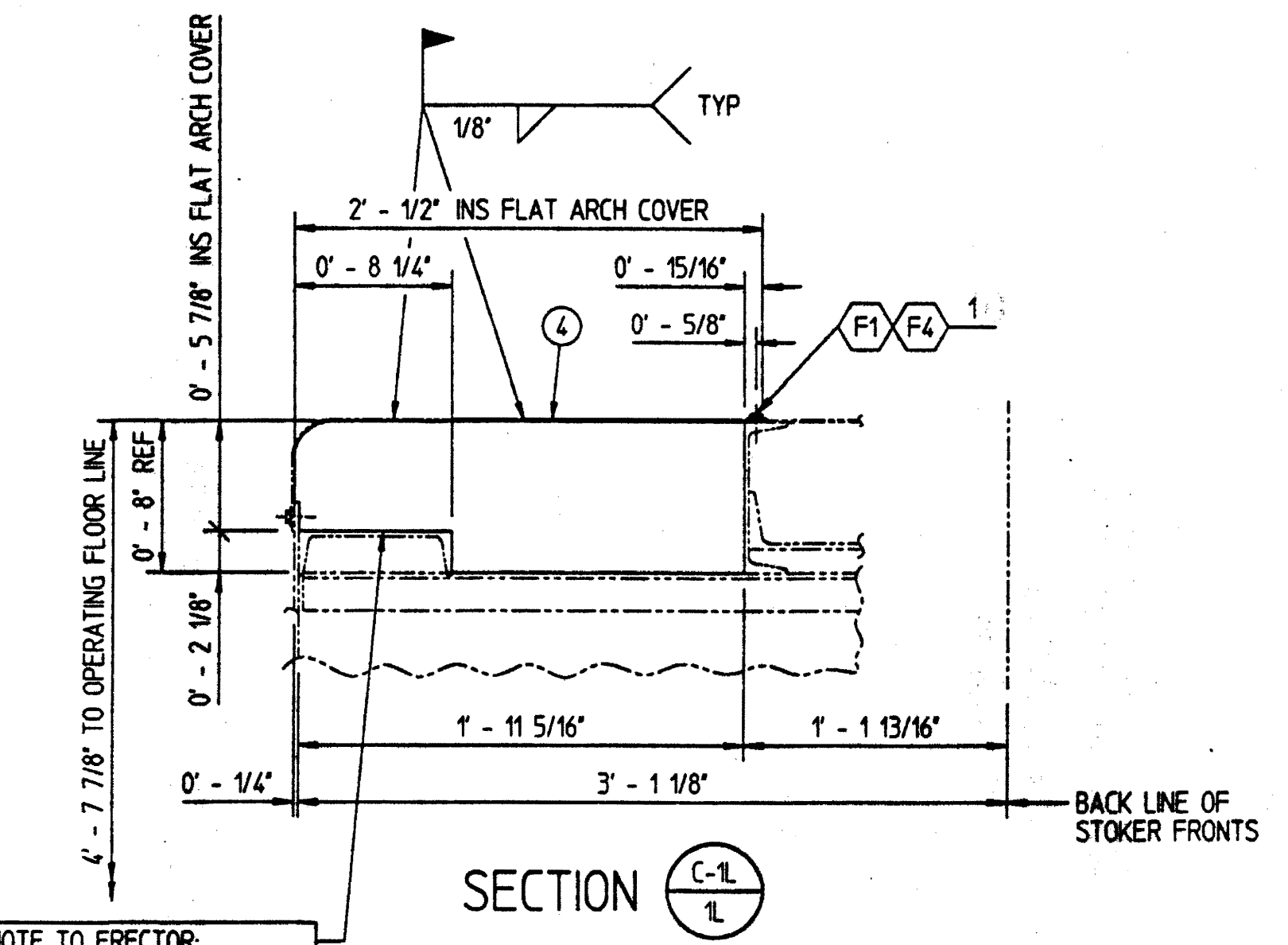
MKD	REQD	PART NO	DESCRIPTION	DWG NO	LBS EA
1	4	AB2176-6	FLAT ARCH COVER EXTENSION	40153-D15-3L	6.0
2	4	AB2176-19	FLAT ARCH COVER EXTENSION	40153-D15-4L	5.6
3	1	AB2176-8	FLAT ARCH COVER EXTENSION	40153-D15-3L	11
4	2	AB2176-9	FLAT ARCH COVER SIDE PLATE	40153-D15-3L	5.7
5	1	AB2176-10	12 GA HRS SHEET X 4' X 10 1/2' LG		13
FASTENERS					
F1	19	1-002-348-8	3/8" X 3/4" LG HHCS		
F2	4	1-002-280-5	3/8" X 1" LG HHCS		
F3	4	1-001-667-8	3/8" HN		
F4	22	1-002-777-7	3/8" FW		



SECTION A-L



SECTION B-L



SECTION C-L

NOTE TO ERECTOR:
ITEM MKD "4" IS TO BE FIELD TRIMMED AS REQD. DO NOT WELD TO EXTENSION FRONT SIDE PLATE.

ISSUE NO	SECTION	DATE	REVISION	RFK
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

ISSUE NO	SECTION	DATE	REVISION	RFK
0-58, 10, 23		12-9-98		
1		7-14-99		

REVISED ILLUSTRATION OF FLAT ARCH COVER EXTENSION, ITEM MKD "2" TOTAL WT FOR ARR WAS 53 LBS EA ITEM MKD "2" WAS PN AB2176-7

NOTES:
1. SEE DWG 40153-D15-L FOR INDIVIDUAL FEEDER DRIVE ARRANGEMENT.

TOLERANCES UNLESS OTHERWISE SPECIFIED	
FRACTIONAL ±1/16	1 PLACE DECIMAL ±.000
METRIC ±1 mm	2 PLACE DECIMAL ±.010
SURFACE FINISH 125	3 PLACE DECIMAL ±.001

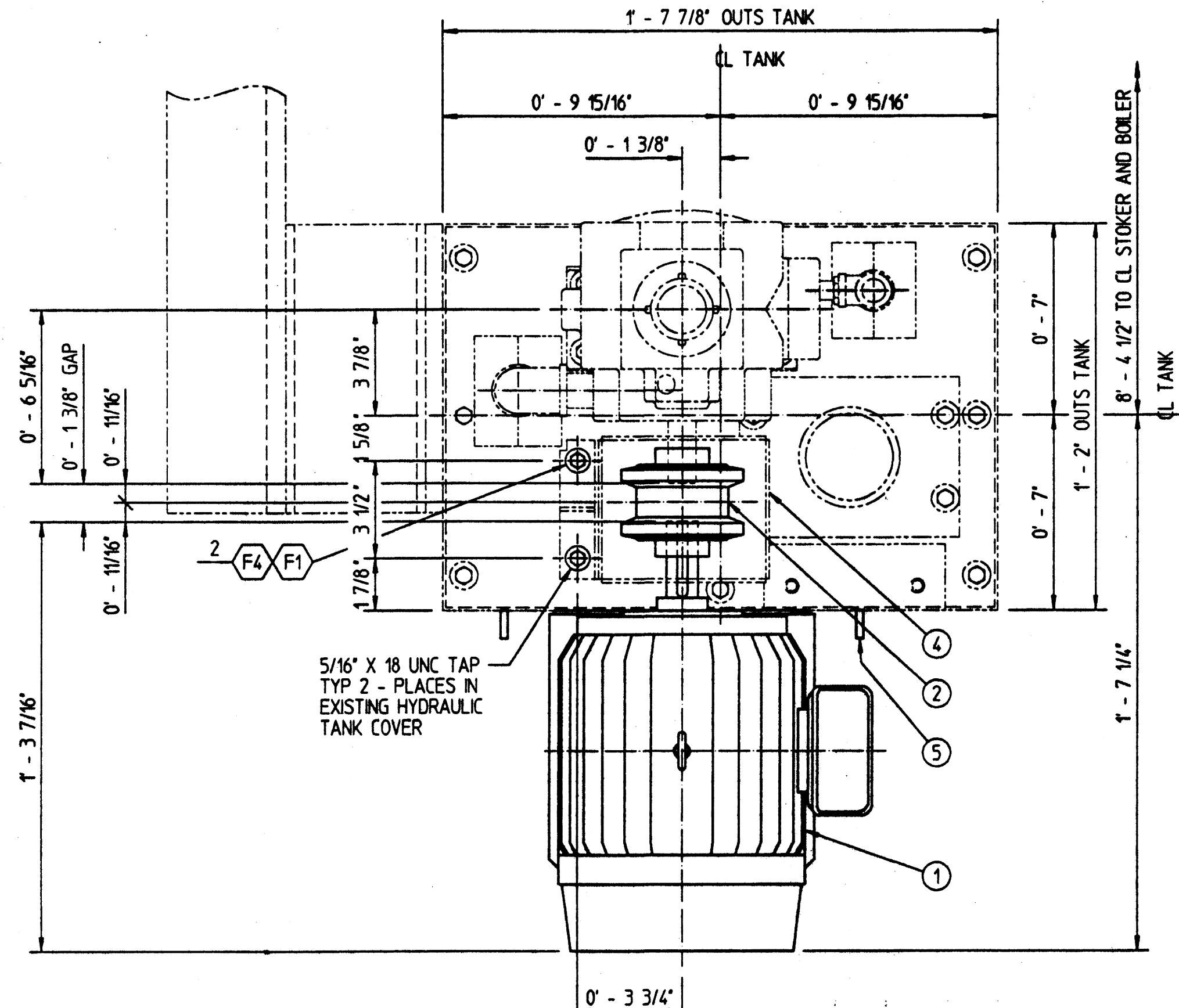
CAUTION
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FLAT ARCH COVER MODIFICATION ARRANGEMENT
DETROIT STOKER COMPANY
MONROE, MICHIGAN
1 - B & W FP-18-48 BOILER

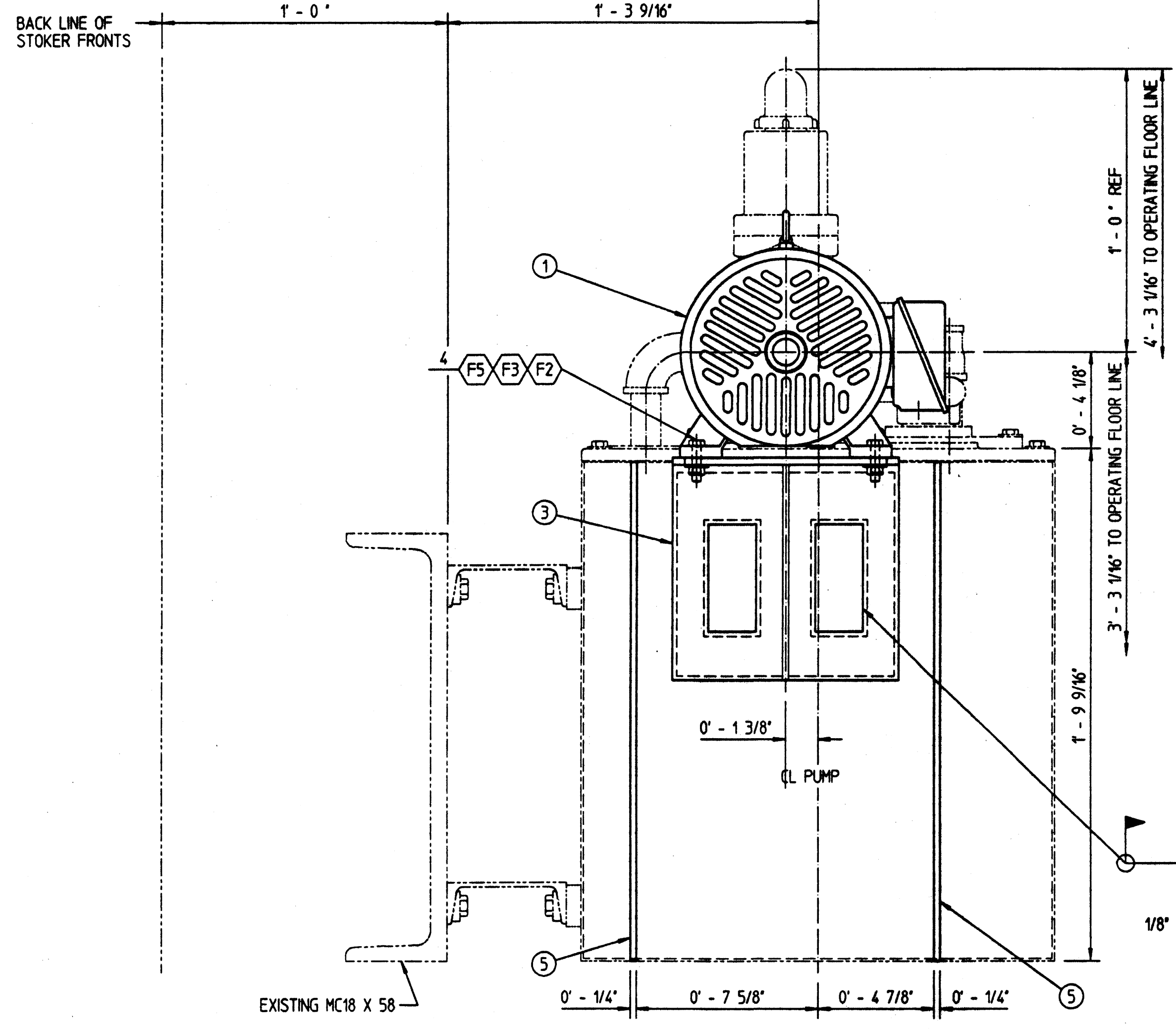
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UNIVERSITY OF KENTUCKY	LEXINGTON, KENTUCKY
SCALE 1 1/2" = 1' - 0"	DATE 12-9-98
OWN J BROWN	CHK J BROWN
APPD RFK	ENGR JFC
JOB NO AB-2176-153-CR-180	REV
40153-D15-1L	

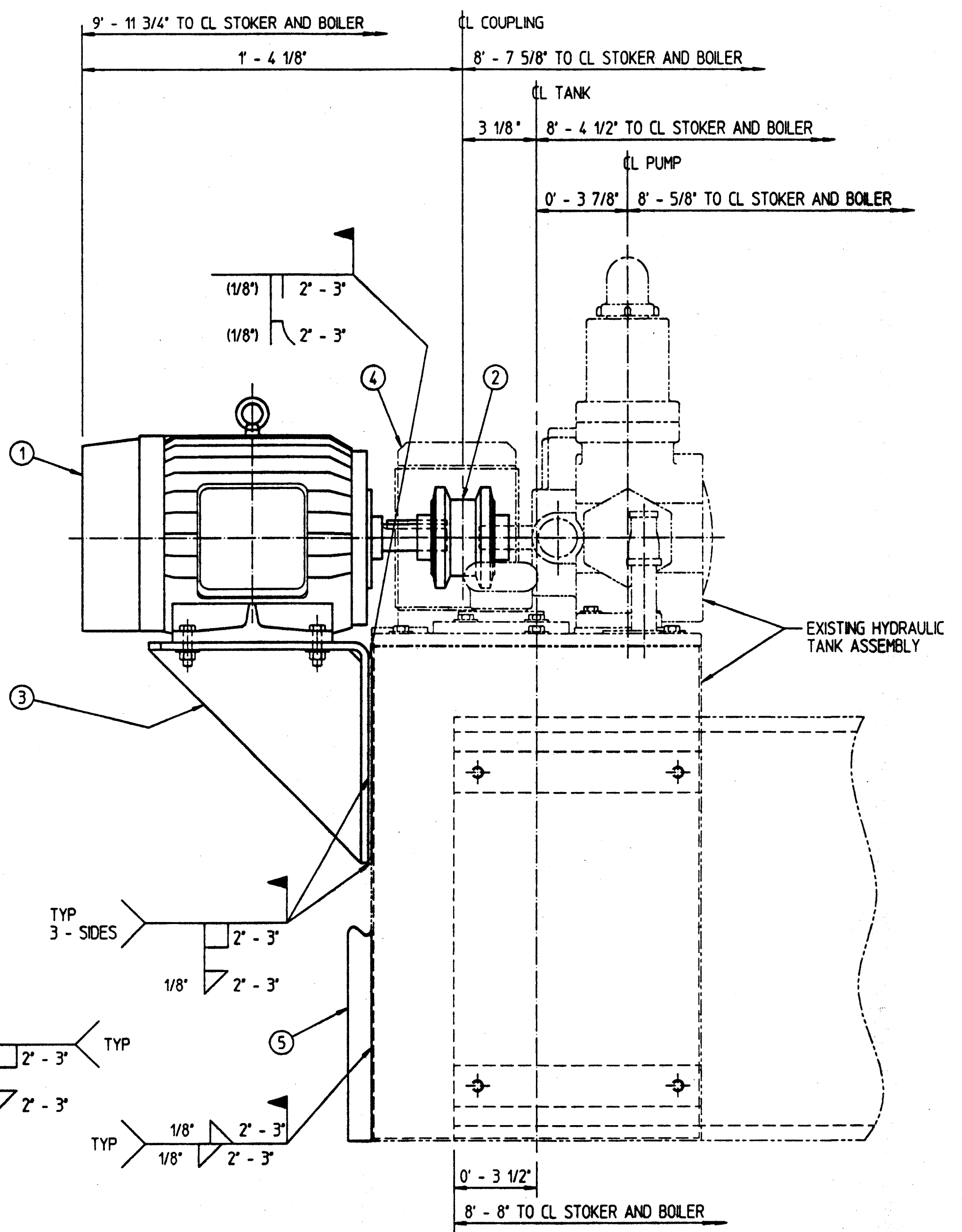
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PLAN VIEW



LH SIDE VIEW

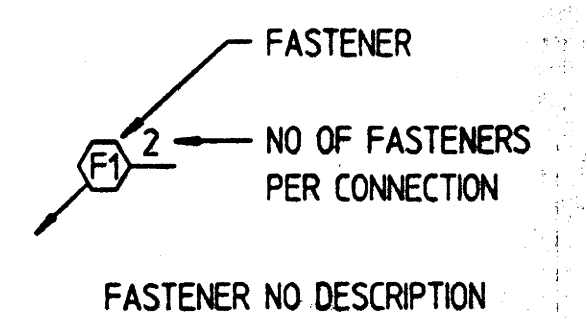


FRONT VIEW

HYDRAULIC GRATE DRIVE MODIFICATIONS, 1 - REQD FOR JOB (130 LBS)

MKD	REQD	PART NO	DESCRIPTION	DWG NO	LBS EA
1	1	AB2176-11	TOSHIBA, 2 HP, 1200 RPM, TEFC, 184T FRAME MOTOR W/THERMAL OVERLOAD (3 PH, 60 HZ, 230/460 VAC)		95
2	1	AB2176-12	FALK, TAPERED GRID STEELFLEX COUPLING, TYPE T10, SIZE 1030T W/Ø1 1/8\" BORE & 1/4\" X 1/8\" KEYWAY (FOR 1/4\" SO KEY), & Ø1\" BORE & 3/16\" X 3/32\" KEYWAY (FOR #607 WOODRUFF KEY)		4.9
3	1	AB2176-13	MOTOR MOUNTING BRACKET	40153-D16-L	19
4	1	AB2176-14	COUPLING GUARD	40153-D16-L	7.7
5	2	AB2176-17	1/4\" X 1\" HRS FLAT X 1\" - 9\" LG		15
FASTENERS					
F1	3	1-002-424-7	5/16\" X 3/4\" LG HHCS		
F2	5	1-002-291-0	3/8\" X 1 1/2\" LG HHCS		
F3	5	1-001-676-7	3/8\" HN		
F4	3	1-012-210-9	5/16\" FW		
F5	5	1-002-777-7	3/8\" FW		

MICROFILMED										
ISSUE NO	SECTION	DATE	CHK	NSP	REVISION	RFK	1	2	3	4
1		12-14-98	JCB		ADDED ITEM MKD '5'					



- NOTES:
- SEE DWG 40153-D15-L FOR INDIVIDUAL FEEDER DRIVE ARRANGEMENT.
 - MAX ROTOR SHAFT SPEED = 2400 RPM @ 120 HZ
NOM ROTOR SHAFT SPEED = 1200 RPM @ 60 HZ
MIN ROTOR SHAFT SPEED = 400 RPM @ 20 HZ

TOLERANCES UNLESS OTHERWISE SPECIFIED	
FRACTIONAL ±1/16	1 PLACE DECIMAL ±.000
METRIC ±1 mm	2 PLACE DECIMAL ±.010
SURFACE FINISH 125	3 PLACE DECIMAL ±.001

CAUTION
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HYDRAULIC GRATE DRIVE MODIFICATIONS

DETROIT STOKER COMPANY
MONROE, MICHIGAN
1 - B & W FP-18-48 BOILER

UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

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JUL 15 1999

SCALE 3" = 1" DATE 12-14-98
DWN J BROWN CHK J BROWN APPD RFK ENGR JFC
JOB NO AB-2176-153-CR-180

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40153-D16-L

Sheet 160 C-2 021258