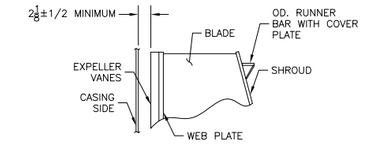
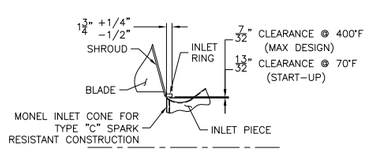
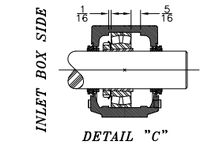


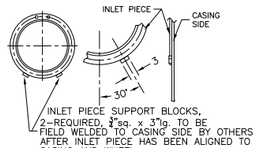
WHEEL GAP INSIDE CASING
DETAIL "A"
NOTE: WHEEL MUST BE LOCATED SUCH THAT ALL EXPELLER VANES CLEAR CASING SIDE BY 2⅛"±½" THRU 360°.



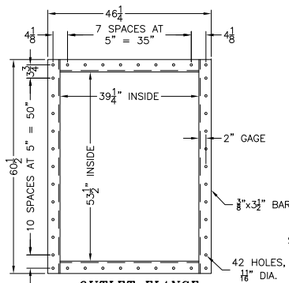
INLET/SHROUD CLEARANCE
DETAIL "B"
NOTE: INLET PIECE MUST BE SET LOW AT START−UP TO ALLOW FOR THERMAL EXPANSION OF FAN HOUSING DURING OPERATION. SET INLET AS SHOWN ABOVE.



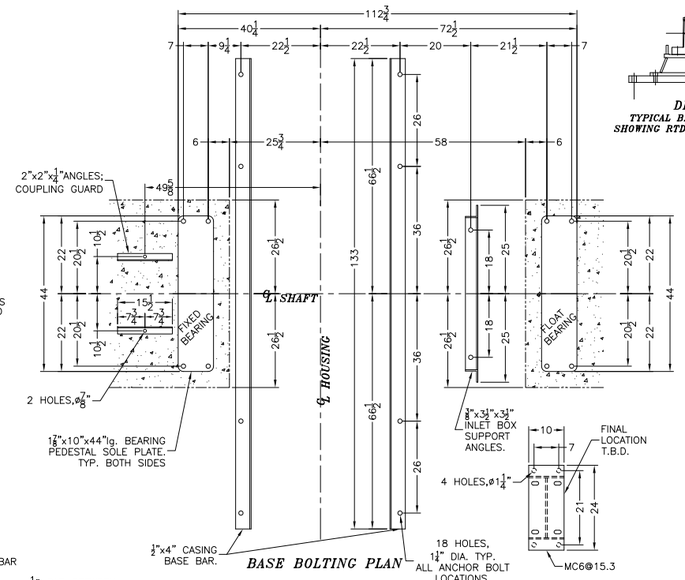
DETAIL "C"
FLOAT BEARING OFFSET
NOTE: AXIAL FLOAT OF ⅛" REQUIRED ON SIDE OF FLOAT BEARING AWAY FROM INLET BOX. RECHECK UPON FAN INSTALLATION AND PRIOR TO START−UP.



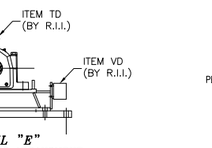
DETAIL "D"



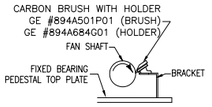
OUTLET FLANGE DRILLING



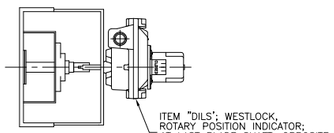
BASE BOLTING PLAN



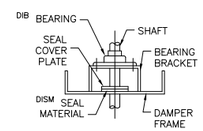
DETAIL "E"
TYPICAL BEARING ARRANGMENT SHOWING RTD & VIBE DET. DRILLING



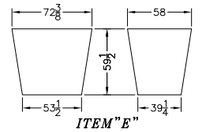
DETAIL "F" − STATIC ELIMINATOR ASS'Y



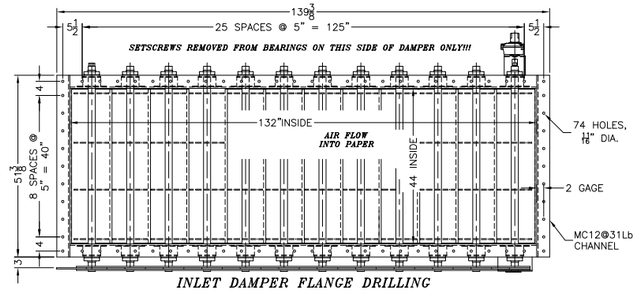
DETAIL "H"
INLET DAMPER
POSITION INDICATOR MOUNTING



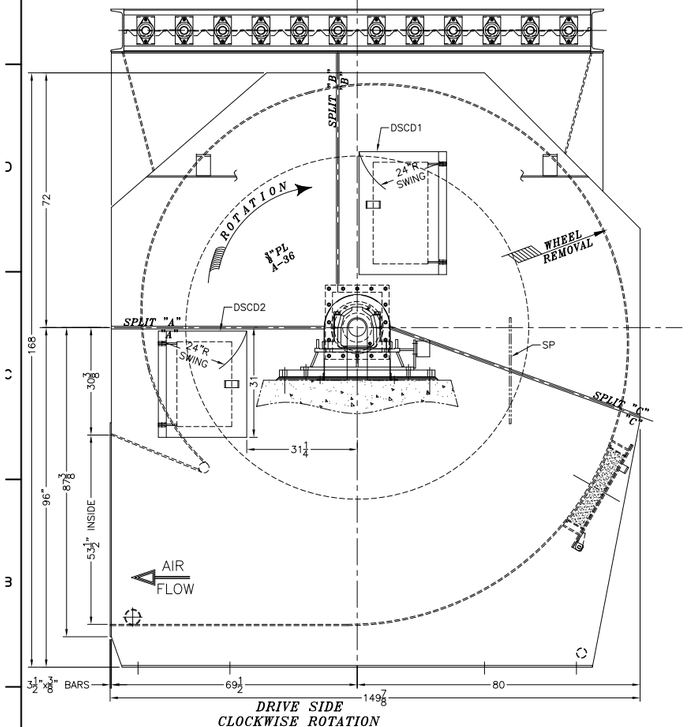
DETAIL "G"
TYP DAMPER SHAFT ASSEMBLY



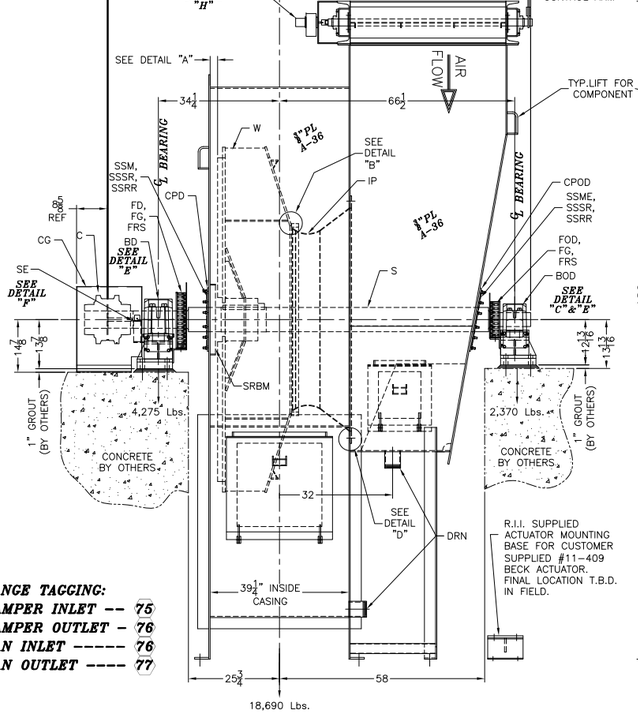
ITEM "E"
REQ'D OUTLET EVASE DIMENSIONS (SUPPLIED BY OTHERS)



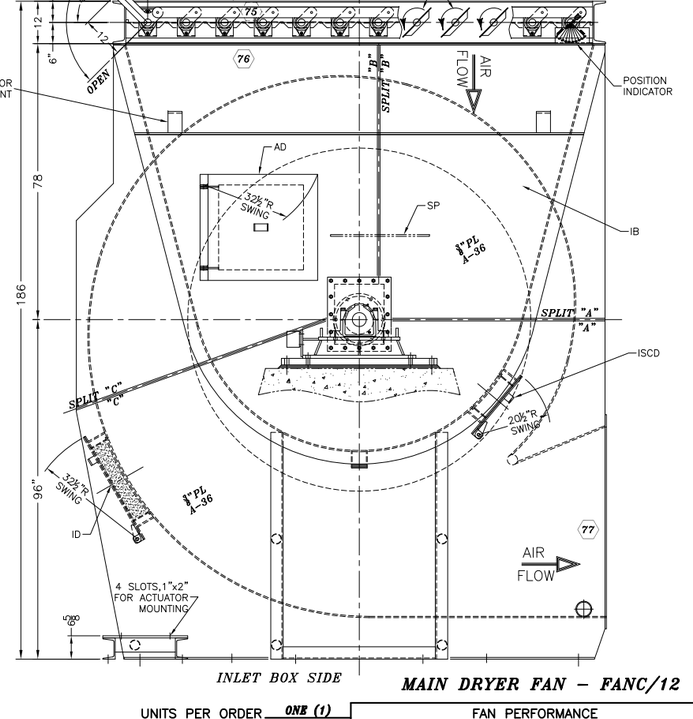
INLET DAMPER FLANGE DRILLING



DRIVE SIDE
CLOCKWISE ROTATION



FLANGE TAGGING:
DAMPER INLET -- 75
DAMPER OUTLET -- 76
FAN INLET ----- 76
FAN OUTLET ---- 77



INLET BOX SIDE

MAIN DRYER FAN − FANC/12

MATERIAL LIST

ITEM	QTY	DESCRIPTION
AD	1	ACCESS DOOR − 24"Sq. OPENING. APPROX. WT.195lbs w/¼" RAISED, INSULATED, HINGED & BOLTED CONSTR.
BD	1	(FIXED) BEARING, DRIVE SIDE − DODGE USAF AIR HANDLING, #035790, 4−15/16"ø SPHERICAL ROLLER BRG; LER SEALS, 1/2"NPT FOR RTD, PILOT HOLES FOR FIELD DOWEL PINNING BY OTHERS. REF NOTE #8 FOR BEARING RELUBRICATION SCHEDULE.
BOD	1	(FLOAT) BEARING, INLET SIDE − DODGE USAF AIR HANDLING, #035785, 3−15/16"ø SPHERICAL ROLLER BRG; LER SEALS, 1/2"NPT FOR RTD, PILOT HOLES FOR FIELD DOWEL PINNING BY OTHERS. REF NOTE #8 FOR BEARING RELUBRICATION SCHEDULE.
C	1	COUPLING − FALK #1130T10 "GRID" FAN HALF BORE; 4.8715" +.0015"/−.0000" KEYWAY; 1−1/4"x5/8" MOTOR HALF BORE; 140mm P7 KEY; 36mm x 20mm
CG	1	COUPLING GUARD − A36
CPD	1	COVER PLATE, DRIVE SIDE − 3/8"PL A36
CPOD	1	COVER PLATE OPPOSITE DRIVE SIDE − 3/8"PL A36
DIB	24	DAMPER, INLET BEARING − DODGE, VSC, SET SCREW MNT. BALL BEARING, PART #123617, 2"ø, GREASE LUBRICATED, REF. NOTE #8 FOR LUBRICATION SCHEDULE
DIL	1	DAMPER − INLET LOUVER − A−36 CHANNEL FRAME w/#304Ls/s BLADES, SHAFTS & LINKAGE. SEE DETAIL "G"
DILS	1	DAMPER − INLET, LIMIT SWITCH − WESTLOCK #2007NBY2B2M0200, NEMA 4X SEE DETAIL "H"
DISM	24	DAMPER, INLET SHAFT SEAL MAT'L,1/8"GARLOCK#9800 HTC
DRN	2	DRAIN − 4"sch#40 PIPEx5"Lg.w/THREADED END, A36
DSCD1	1	CLEANOUT DOOR − 15"x28"OPENING. APPROX.WT. 145lbs. 4" RAISED, INSULATED, HINGED & BOLTED CONSTR.
DSCD2	1	CLEANOUT DOOR − 15"x24"OPENING. APPROX.WT. 125lbs. 4" RAISED, INSULATED, HINGED & BOLTED CONSTR.
E	1	EVASE − SUPPLIED BY OTHERS
FD	1	HEAT FLINGER, DRIVE SIDE − 14"ø, CAST ALUMINUM
FOD	1	HEAT FLINGER, OPP. DRIVE SIDE − 9"ø, CAST ALUMINUM
FG	2	FLINGER GUARD − A36
FRS	2	FLINGER RADIANT HEAT SHIELD − #304ø/s
IB	1	INLET BOX − A36
ID	1	INSPECTION DOOR − 24"Sq. OPENING. APPROX. WT.195lbs w/4" RAISED, INSULATED, HINGED & BOLTED CONSTR.
IP	1	INLET PIECE − A36 w/MONEL
ISCD	1	CLEANOUT DOOR − 12"Sq. OPENING. APPROX. WT.85lbs 4" RAISED, INSULATED, HINGED & BOLTED CONSTR.
M		MOTOR − 1200 RPM, 4160V/3Ph/60Hz SUPPLIED & MOUNTED BY OTHERS.
MS		MOTOR SOLEPLATE − SUPPLIED & MOUNTED BY OTHERS.
S	1	SHAFT − AISI #4140 HTSR
SE	1	SHAFT STATIC ELIMINATOR ASSEMBLY − GE MODEL #894A684G01 HOLDER w/#894A501P01 CARBON BRUSH
SP	3	SPLICE PLATES − A36; REFERENCE NOTE #17. SPLICE PLATES MATCH MARKED FOR PROPER LOCATION.
SRBM	1	SPARK RESISTANT BUMPER MATERIAL − MONEL
SSM	1	SHAFT SEAL − 1/8" GARLOCK #9800 HTC
SSME	1	SHAFT SEAL, ELLIPTICAL − 1/8" GARLOCK #9800 HTC
SSRR	2	SHAFT SEAL RETAINING RING − MONEL
SSSR	2	SHAFT SEAL SPACER RING − A36
TD	2	TEMPERATURE DETECTOR − T−TEC #1060−A−12−S−A PLATINUM RTD, 100ohm@0°C, 3 WIRE, SINGLE ELEMENTc/w #1060−34 HEAD, #1060−39 BLOCK, #1060−33 FITTING
VD	2	VIBRATION DETECTOR − VITEC #438A c/w ADJUSTABLE ALARM & SHUT DOWN RELAYS, 4−20mA OUPUT FOR REMOTE INDICATION
W	1	WHEEL − ALLOY 2205 w/#316Ls/s

NOTES:
1.FAN TO BE FABRICATED FROM A−36 STEEL. WHEEL AND SHAFT AS NOTED ABOVE.
2.ALL WELDING IN ACCORDANCE WITH AWS D1.1 AND AWS D14.6. w/QUALIFIED WELDERS & PROCEDURES
3.CERTIFIED MILL TEST REPORTS REQUIRED.
4.FAN CLEANED PER SSPC−SP3. CORNERS ROUNDED. CASING/BOX EXTERIOR PAINTED RUSTOLEUM #4268 PRIMER. INTERIOR COATED w/MINERAL OIL FOR CORROSION PROTECTION AFTER PRIMING. EXTERIOR. BEARING PEDESTALS & GUARDS SANDBLASTED PER SSPC−SP6. PEDESTALS PAINTED w/2 COATS OF CARBOGUARD #890 EPOXY − SAFETY BLUE #S150. ALL GUARDS PAINTED w/2 COATS OF CARBOGUARD #890 EPOXY − SAFETY YELLOW #6666.
5.GASKET MATERIAL: FULL WIDTH ZETEX TAPE
6.TOTAL WHEEL & SHAFT WEIGHT APPROX 4,709 Lbs.
7.TOTAL FAN WEIGHT APPROX. 25,335 Lbs.
8.FAN BEARINGS, ITEMS BD & BOD, ARE TO BE REGREASED ON 2 WEEK CYCLE w/MOBILITH SHC−220 GREASE OR EQUAL IN THE FOLLOWING QTY'S; AT FIXED BRG (ITEM BD) USE 2.40oz. AT FLOAT BRG (ITEM BOD) USE 0.95oz. REFERENCE DODGE BEARING INSTRUCTION #499800. DAMPER BEARINGS, ITEMS DIB, ARE TO BE REGREASED ON 4 WEEK CYCLE w/MOBILITH SHC−220 GREASE OR EQUAL USING 0.27oz. PER BEARING. REFERENCE DODGE BEARING INSTRUCTION #499498.
9.ROBINSON RECOMMENDS A MINIMUM CONCRETE MAT UNDER FAN OF APPROX. 126.675 Lbs. THIS DOES NOT INCLUDE CONCRETE ABOVE GRADE FOR BEARING PEDESTAL SUPPORT.
10.CASING SPLIT FOR WHEEL AND SHAFT REMOVAL.
11.EXPANSION JOINTS IN ALL DUCTWORK & PIPING TO AND FROM FAN ARE REQUIRED. THESE JOINTS ARE TO BE IMMEDIATELY ADJACENT TO THE FAN. CUSTOMERS DUCTWORK MUST BE STRUCTURALLY ANCHORED WITHIN APPROX 24"Ø OF EXPANS. JOINTS.
12.FAN SUPPLIED WITH ZINC PLATED FASTENERS.
13.DAMPER TORQUE=1,189Ft.Lb.@70°F/.0901 Lb/Ft³ AIR.
14.FAN DESIGNED PER AMCA TYPE "C" SPARK−RESISTANT CONSTR.
15.s/s NAMEPLATES REQUIRED.
16.BEARING TEMPERATURE AND VIBRATION DETECTORS SHOWN ABOVE ARE PICK−UPS ONLY. MONITORS BY OTHERS.
17.FAN SPLICE PLATES PROVIDED BY ROBINSON TO SPAN CASING/INLET BOX SPLITS. WHERE THESE ARE REQUIRED, DRACING WILL BE DRILLED TO ACCEPT SPLICE PLATES. SPLICE PLATES TO BE BOLTED IN PLACE UPON FAN ASSEMBLY w/ROBINSON SUPPLIED FASTENERS.

WHEEL & SHAFT WR² = 29,591 lbs. ft²

ROBINSON
INDUSTRIES,INC
ZELIENOPLE, PENNSYLVANIA 16063

TYPE	97"±11−1/4"BI1120, ARR§3, CW@270°DISCH, IBP@360°, CL§4, SWSI			
FOR	BARR−ROSIN			
	BOISBRIAND, QUEBEC CANADA			
PM−JHG	BY	DATE	ALL DIMENSIONS ARE IN INCHES	
DRAWN	TW	2−22−07		
CHECKED	RKF	2−23−07	DA−98BI1120−118	1 REV
CADD DWG	#3A207122			

NO.	REVISION	DATE	BY	CHECKED
⚠	COUPLING MOTOR HALF BORE PER CUST's REVISED SPEC	3−15−07	TW	

CAD GENERATED DRAWING, DO NOT CHANGE BY HAND

BEARINGS ARE DESIGNED FOR A MAXIMUM AMBIENT TEMPERATURE OF 100°F.

DO NOT USE SUBSTITUTE LUBRICANTS OR OVER LUBRICATE. WARRANTY WILL BE VOIDED UNLESS ROBINSON LUBRICATION INSTRUCTIONS ARE FOLLOWED.

FAN UNIT WILL BE SHIPPED ☐ ASSEMBLED ☑ DISASSEMBLED

FINAL ALIGNMENT OF BEARING, COUPLING, V−BELTS, WHEEL & SHAFT ASSY. MUST BE CHECKED BEFORE OPERATION OF THIS EQUIPMENT. NOTE ALL ITEMS ARE TO BE CHECKED FOR PROPER SETTINGS PER INSTRUCTIN MANUAL AND CERTIFIED DRAWING.

UNITS PER ORDER ONE (1)

CERTIFIED FOR
YOUR ORDER 2409/13
OUR JOB NO. 207−122
BY TW DATE 2−22−07

TOLERANCES UNLESS OTHERWISE MARKED FRACTIONS±1/32",ANGLES±1°,DEC.±.005"

FAB TOLERANCE ON OVERALL DIMENSIONS UNDER 54"DIA. FAN ±1/8" 54"DIA. FAN & ABOVE +3/16"/−1/8"

FAN PERFORMANCE

MAXIMUM FAN DESIGN TEMPERATURE 400 °F @ 1,180 RPM

1,180	189,339	30.0"	.0414	240°F	200 ft.	1,229	
RPM	ACFM	FSPR	DENSITY	TEMP	ELEV	BHP	