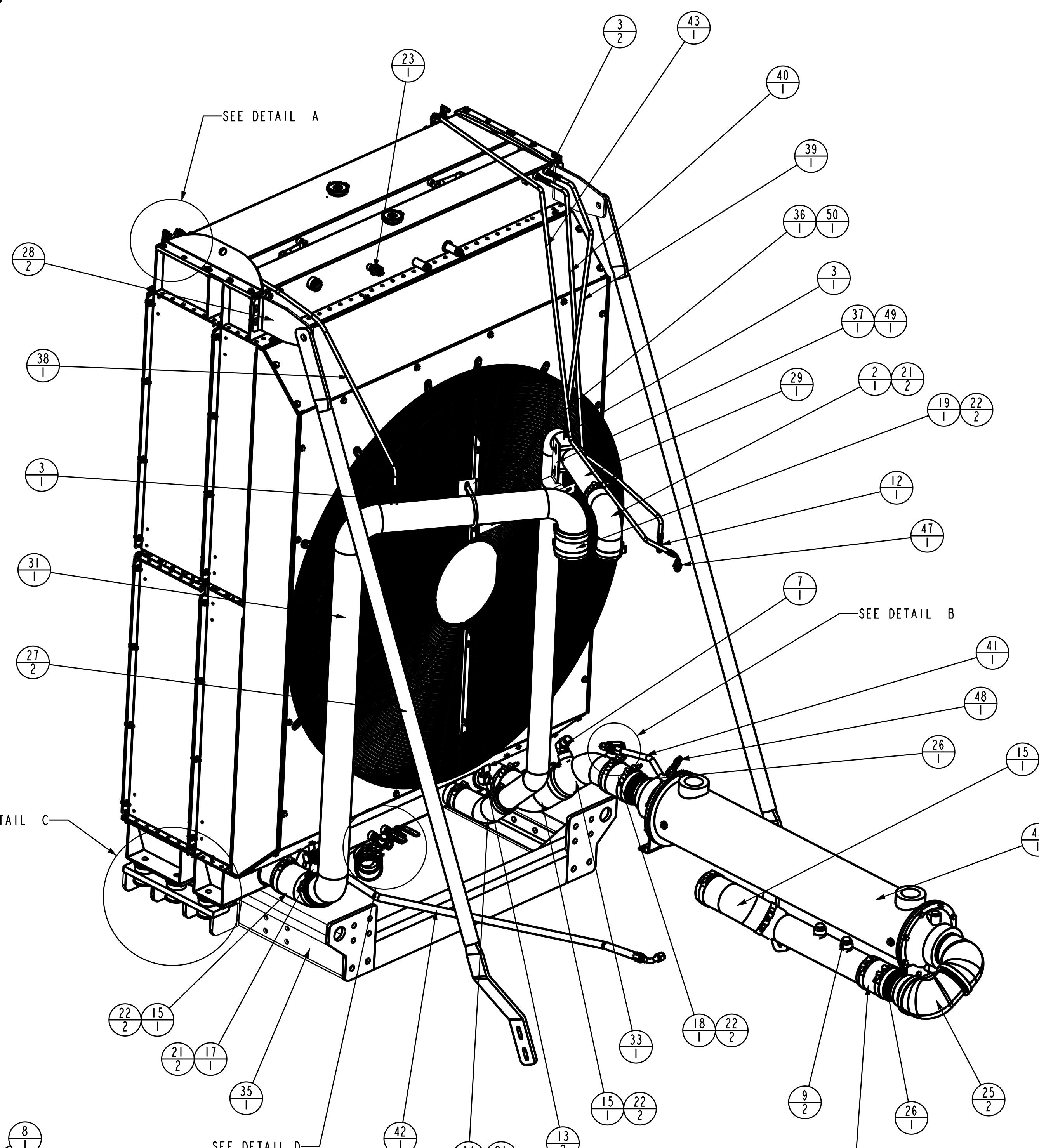
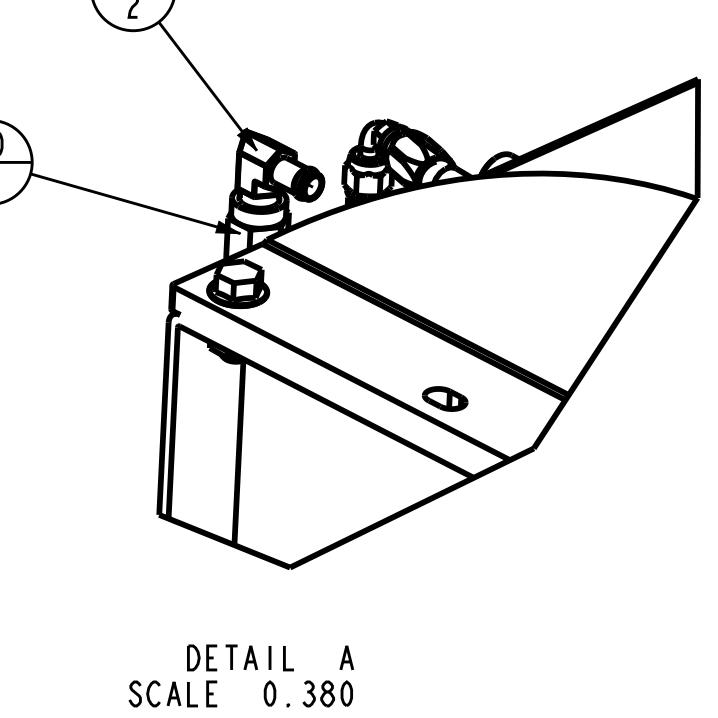
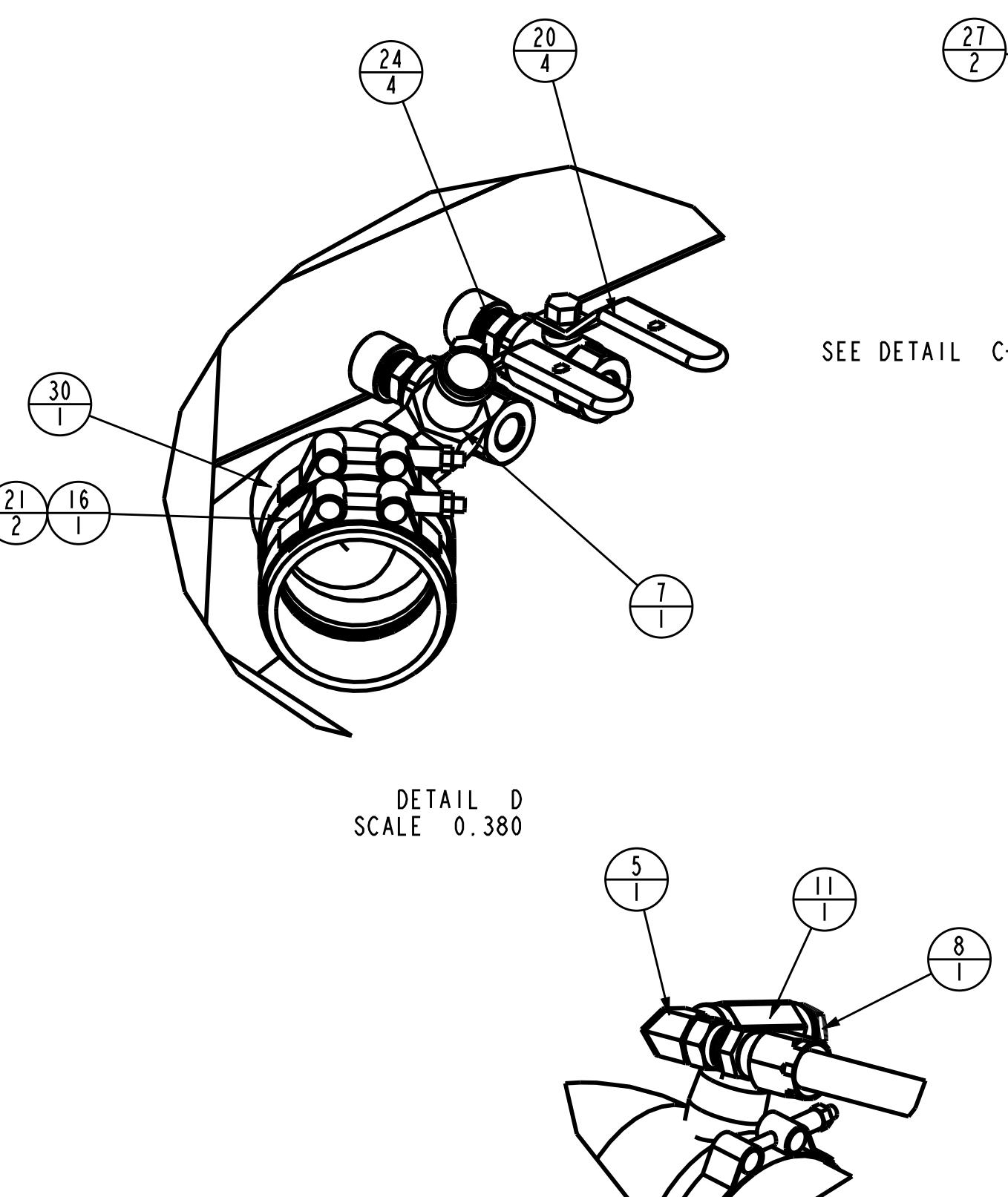
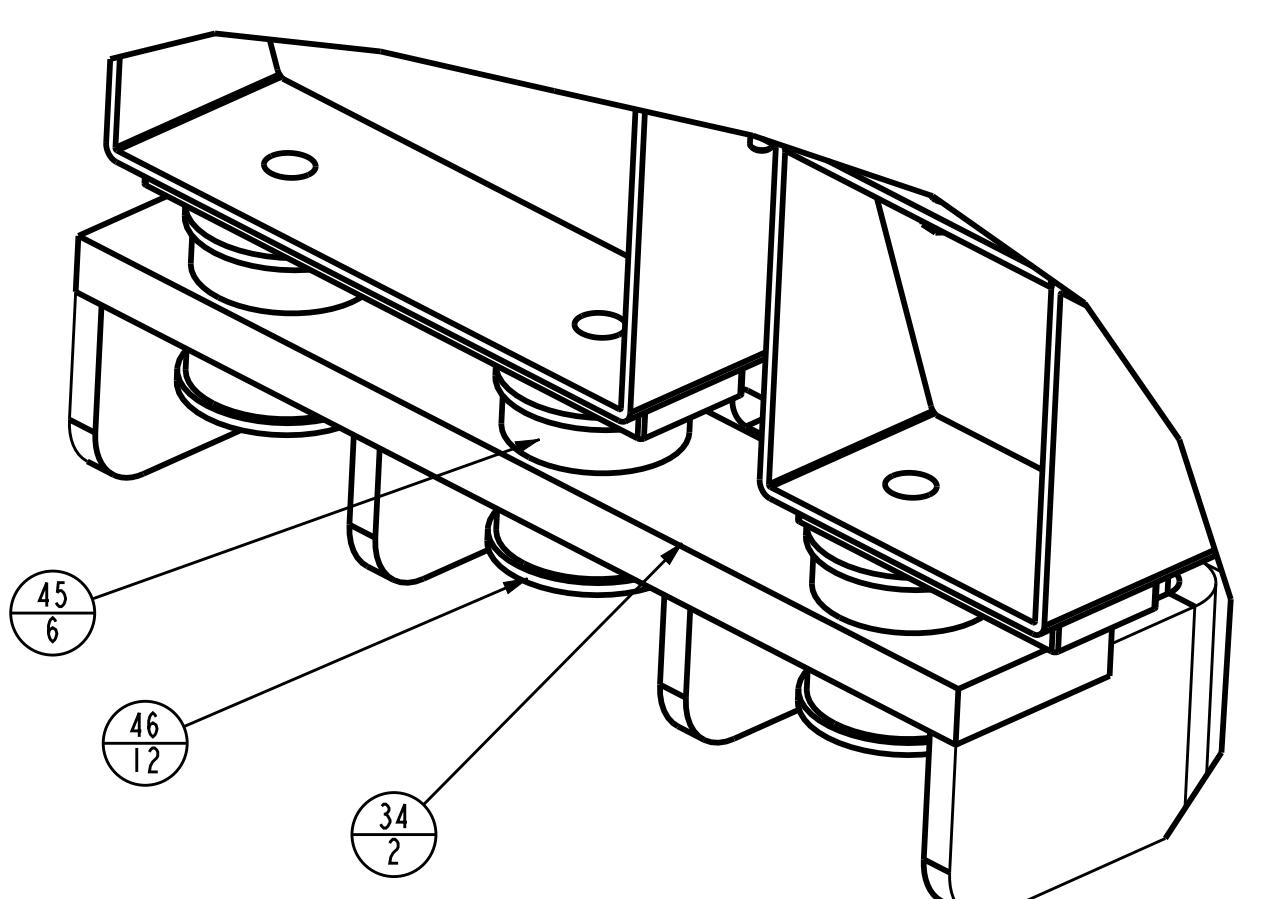


BILL OF MATERIAL			REV	REL NO	REVISION	DWN	CKD	APVD	DATE
ITEM	QTY	DESCRIPTION	PART NUMBER	VENDOR					
1	1	RADIATOR; OST30 TAF	01-53740	SAXON / JMC	01	19016	REVISED PER ECO 19016	RL	BES 03-26-19
2	1	HOSE, Ø3.00 X 90°	90-300-MK	PUROSIL	02	19065	REVISED PER ECO 19065	RL	BES 09-12-19
3	4	FITTING, #4 MNPT - #4 MJIC	2404-04-04	FITTINGS UNLTD.	03	19070	REVISED PER ECO 19070	RL	BES 09-25-19
4	2	FITTING, #4 MNPT - #4 MJIC, 90E	2501-04-04	FITTINGS UNLTD.					
5	1	FITTING, #8 MNPT - #8 MJIC, 90E	2501-08-08	FITTINGS UNLTD.					
6	2	FITTING, 3/8 HOSE BARB - #4 MNPT, 90E	4501-06-04	FITTINGS UNLTD.					
7	2	ADAPTER ELBOW, 1" NPT X 1" HOSE	4501-16-16	FITTINGS UNLTD.					
8	1	PLUG, #8 NPT, HEX HEAD	5406-P-08	TOMPKINS					
9	2	PLUG, HEX HEAD, #12 NPT	5406-P-12	TOMPKINS					
10	2	FITTING, #4 MNPT - #4 FNPT, 90E	5502-04-04	FITTINGS UNLTD.					
11	1	FITTING, #8 FNPT - #8 FNPT - #8 MNPT, TEE	5604-08-08-08	FITTINGS UNLTD.					
12	1	FITTING, #6 O-RING - #4 MJIC	6400-04-06	TOMPKINS					
13	2	ELBOW, 90, 7/8-14 ORS x #10 TUBE	6801-10-10-NWO	FITTINGS UNLTD.					
14	1	HOSE, Ø3.00 X 45°	9046-300-MK	PUROSIL					
15	3	HOSE, Ø4.00 X 45°	9046-400-MK	PUROSIL					
16	1	HOSE, COOLANT, Ø3.0 ID X 3.0 LG	24248	GATES					
17	1	HOSE, COOLANT, Ø3.0 ID X 4.0 LG	24248	GATES					
18	2	HOSE, COOLANT, Ø4.0 ID X 5.0 LG	24264	GATES					
19	1	HOSE, COOLANT, Ø4.0 ID X 4.0 LG	24464	GATES					
20	4	VALVE, BALL, BRASS, 1/2" NPT	90313	KIMBALL					
21	8	CLAMP, Ø3.50" T-BOLT	94100-0350	CLAMPCO					
22	12	CLAMP, Ø4.50" T-BOLT	94100-0450	CLAMPCO					
23	1	SWITCH, COOLANT LEVEL	4383933	CECO					
24	4	HEX NIPPLE, BRASS	3325X8	KIMBALL					
25	2	FITTING, 4" MNPT - 4" FNPT, 90E	44605K330	MCMASTER					
26	2	FITTING, 4" HOSEBARB - 4" PIPE	5363K49	MCMASTER					
27	2	BRACE, RADIATOR;	A058Z055						
28	2	BRACKET; RADIATOR SUPPORT	A058Z060						
29	1	TUBE, WATER TRANSFER; LTA, OUTLET	A058Z061						
30	1	TUBE, WATER TRANSFER; LTA INLET	A058Z062						
31	1	TUBE, WATER TRANSFER; JW HOT SIDE	A058Z063						
32	1	TUBE, WATER TRANSFER; HEAT EXCHANGER OUTLET	A058Z077						
33	1	TUBE, WATER TRANSFER; HEAT EXCHANGER, INLET	A058Z078						
34	2	SUPPORT, RADIATOR; FRONT	A058Z155						
35	1	SKID EXTENSION; RADIATOR, OST30 TAF	A058Z158						
36	1	BRACE, TUBE; JW HOT SIDE	A059C596						
37	1	BRACE, TUBE; LTA OUTLET	A059C598						
38	1	HOSE ASSEMBLY; JW TUBE VENT	A059C688	HYDRAQUIP					
39	1	HOSE ASSEMBLY; LTA TUBE VENT	A059C689	HYDRAQUIP					
40	1	HOSE ASSEMBLY; LTA HOUSING VENT	A059C690	HYDRAQUIP					
41	1	HOSE ASSEMBLY; HOC COOLANT BY-PASS	A059C692	HYDRAQUIP					
42	1	HOSE ASSEMBLY; ENGINE FUEL TO FOC	A059C769	HYDRAQUIP					
43	1	HOSE ASSEMBLY; VENT, TURBO	A059D915	HYDRAQUIP					
44	1	HEAT EXCHANGER	C-1748-209956	SAXON					
45	6	ISOLATOR, 2 PIECE	CB-2203-4	LORD					
46	12	WASHER, ISOLATOR SUPPORT	J-2049-91	LORD					
47	1	FITTING, #4 JIC X M16X1.5 O-RING	M-MJ-6400-04-16X1.5-WO	FITTINGS UNLTD.					
48	1	FITTING, #6 MJIC - M14X1.5 O-RING, 90E	M-MJ-6801-06-14X1.5-NWO	FITTINGS UNLTD.					
49	1	CLAMP, U-BOLT, 3"	U300KB	CLAMPS INC					
50	1	CLAMP, U-BOLT, 4"	U400KB	CLAMPS INC					



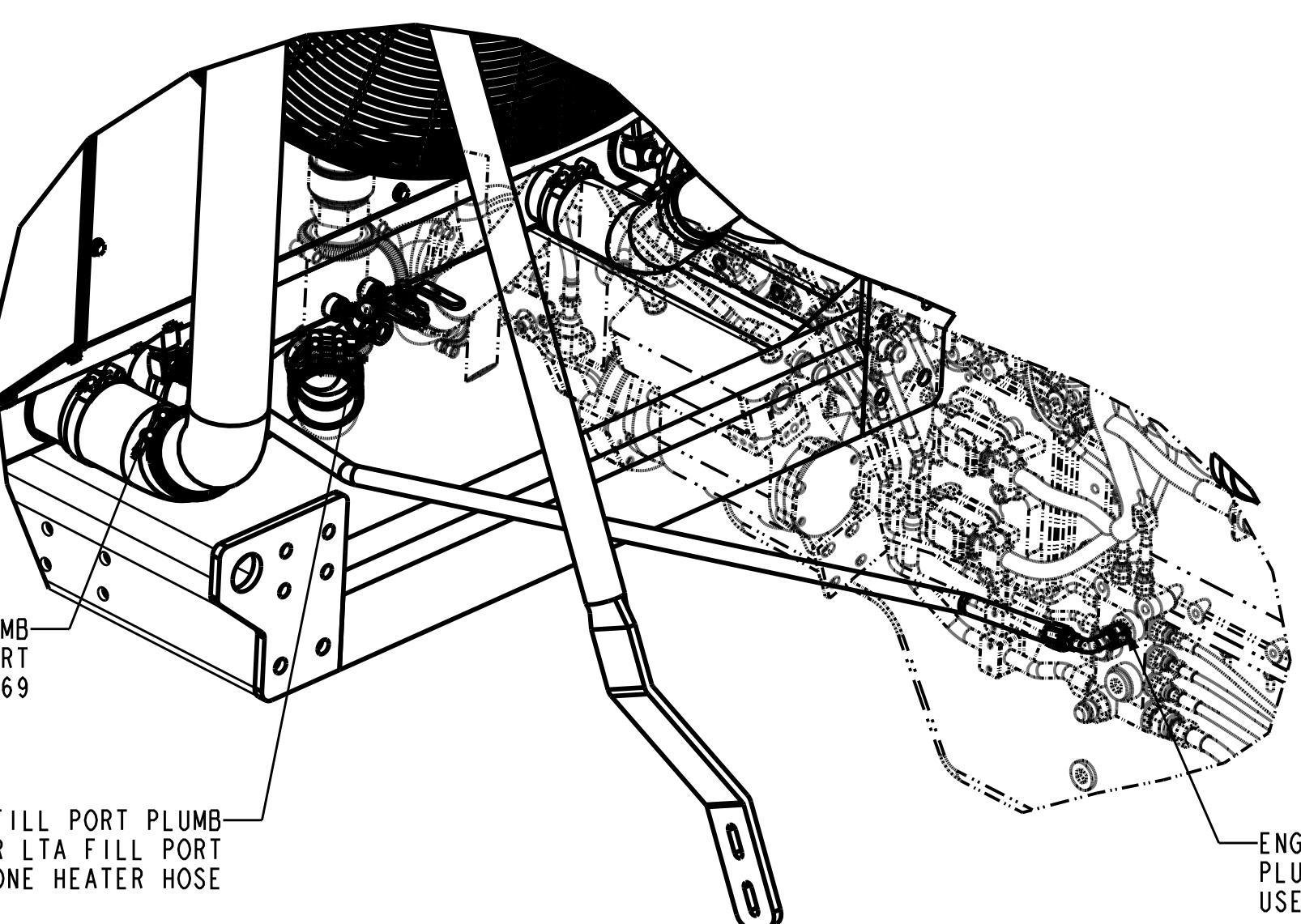
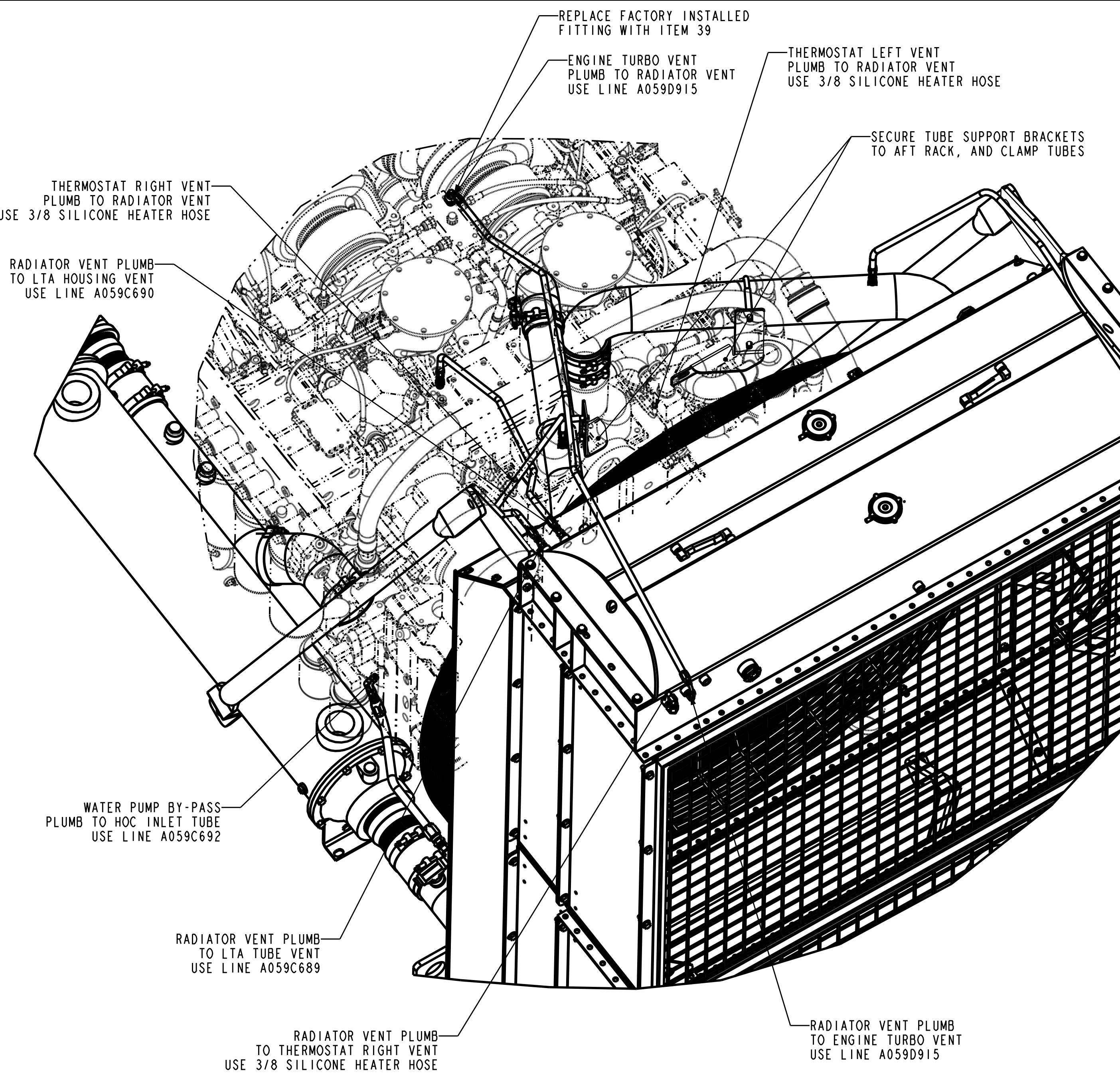
DIMENSIONS ARE IN: INCHES	DO NOT SCALE PRINT	CMI DATA CLASSIFICATION	Cummins Inc.
(1) ARE IN: IN		Cummins Confidential	
DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED	SCALE 0.100	DWN RL	ITEM NAME
1: ± .010 IN OR .25 MM		CKD BES	ASM, COOLING SYSTEM
X: ± .030 IN OR 0.76 MM		APVD BES	OST30 TAF, 120 LAT, W/HE
Z: ± .010 IN OR .25 MM		DATE 12-09-18	SEE ASME Y14.5-2009
ANGULAR TOLERANCE: ± 1°			MUST CONFORM TO CES 10903
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FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5-2009			

CAD SHEET 1 OF 3 ITEM NUMBER RA100016 REV 3

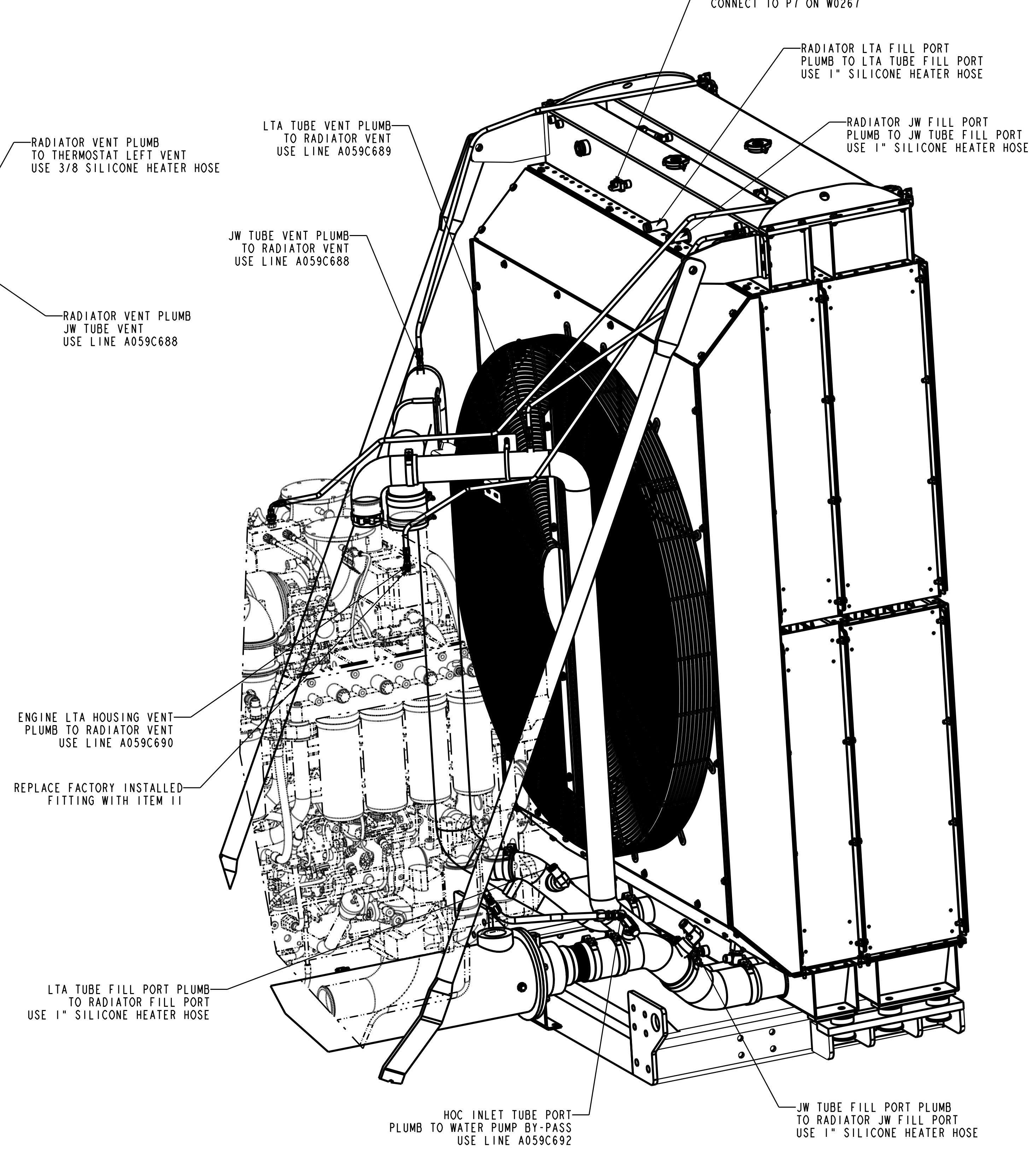
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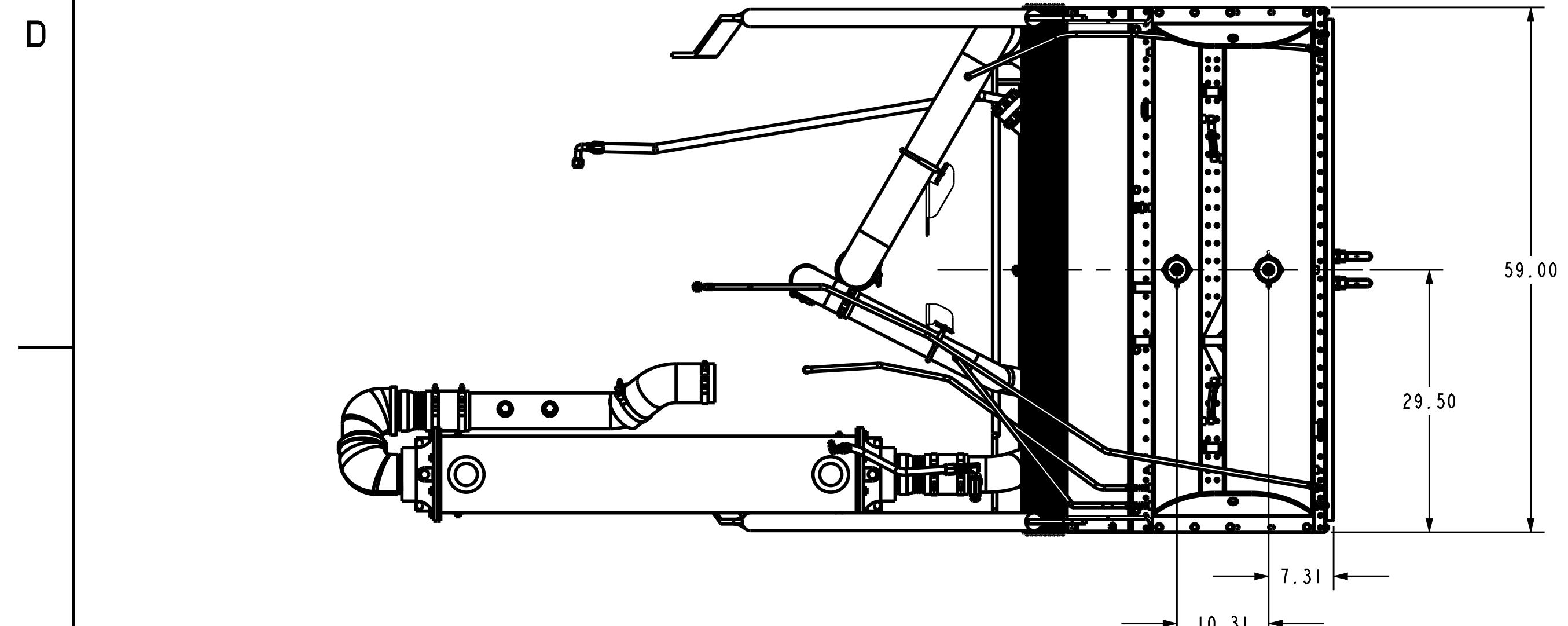


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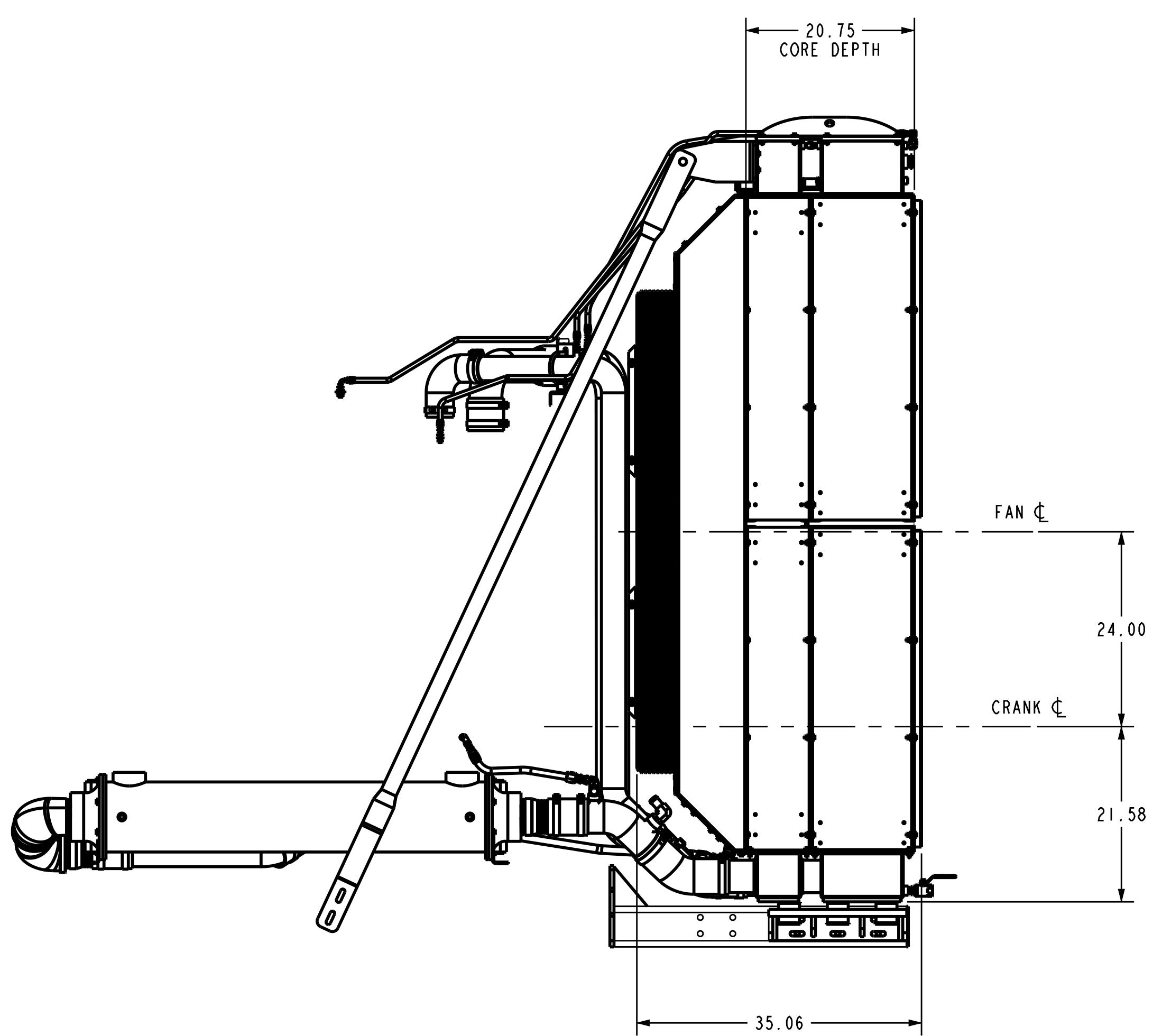
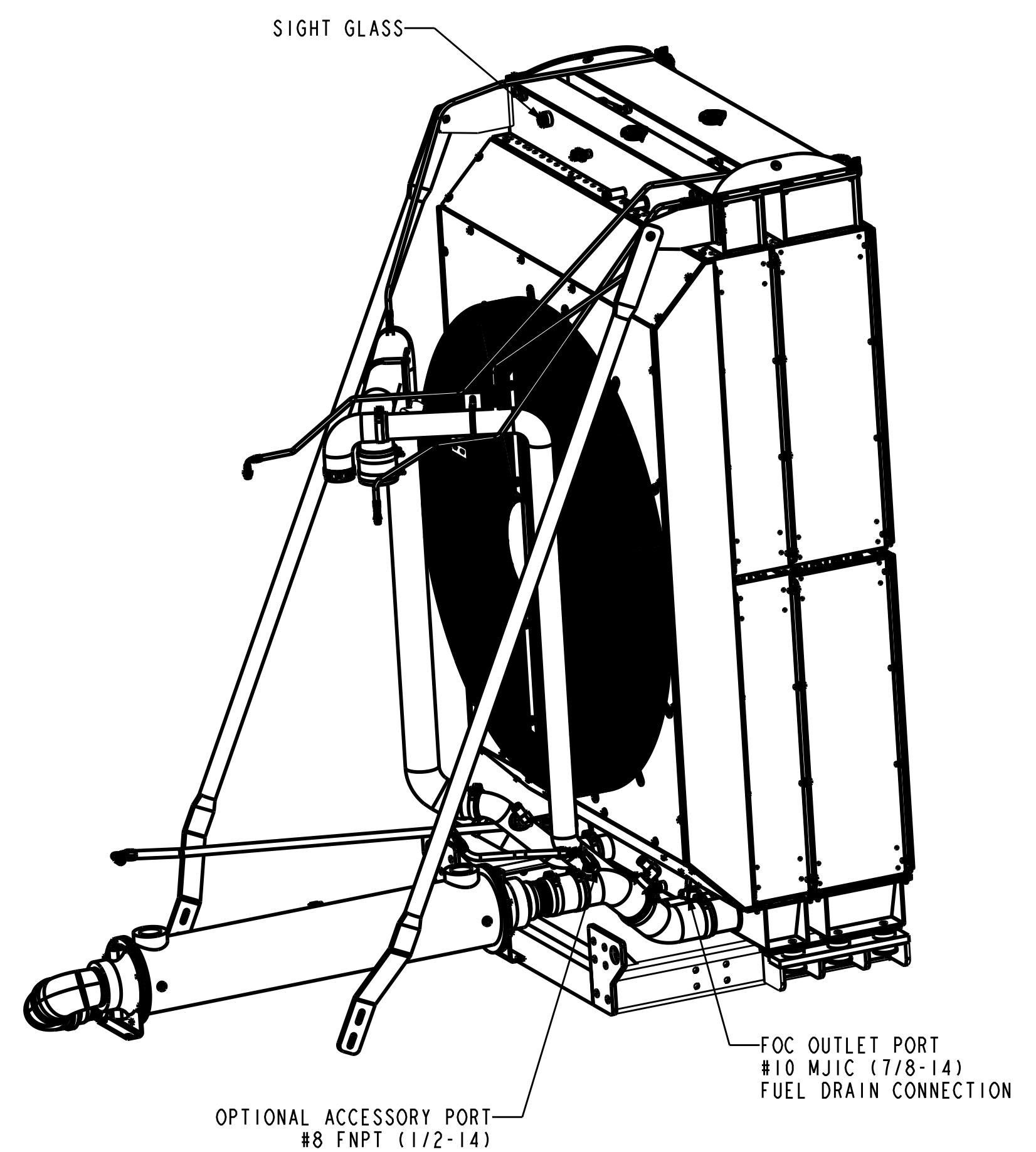
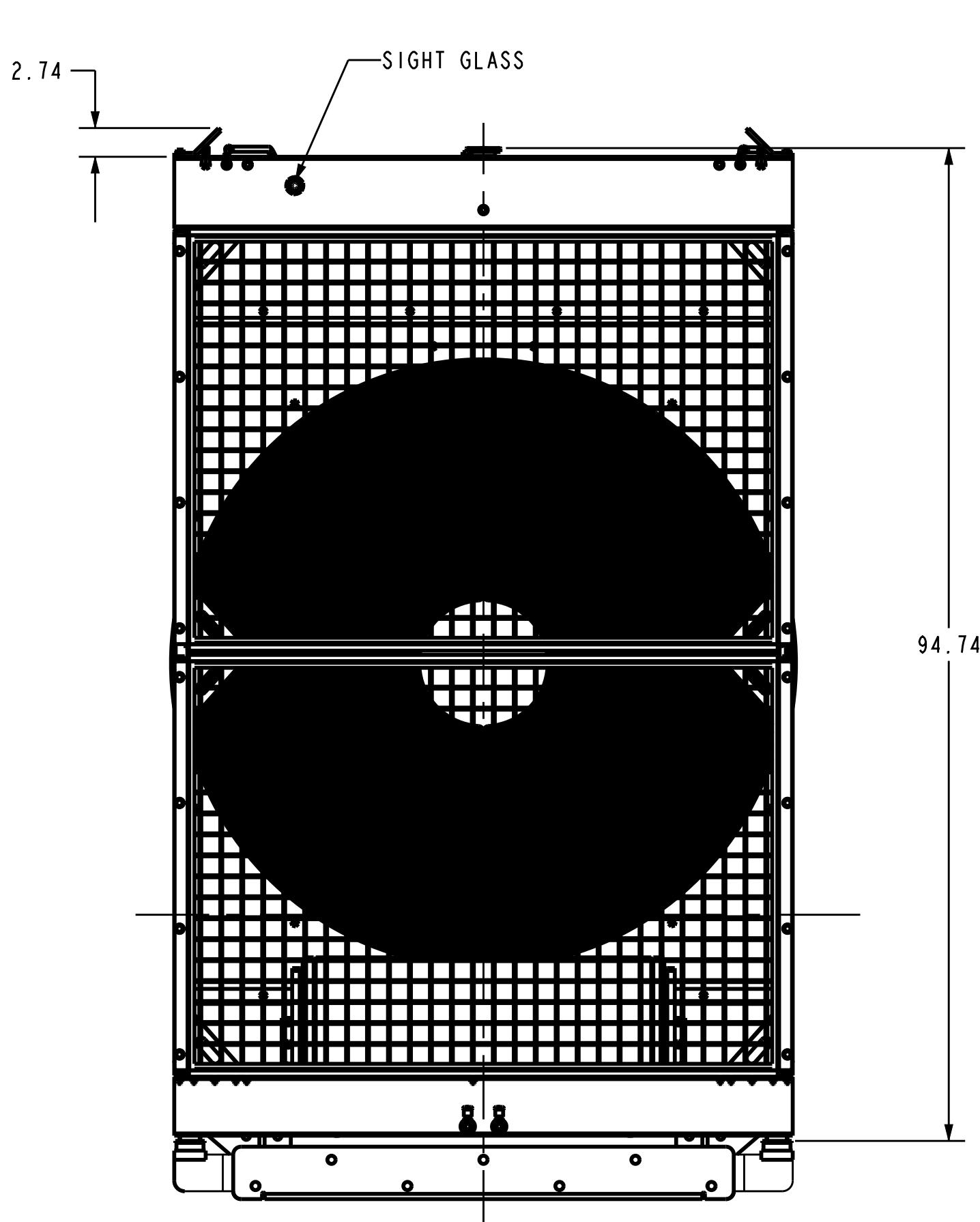


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(1) ARE IN:		Cummins Confidential	
DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED	SCALE 0.100	DWN RL	
1:1 IN. OR 1MM		CKD BES	
X:1:1 IN. OR 0.77 mm		APVD BES	
X:12:1 IN. OR 0.25 mm		DATE 12-09-18	
ANGULAR TOLERANCE: ± 1°		FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5-2009	
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			REV 3

8 7 6 5 4 3 2 1



**COOLING PACKAGE DATA:**  
 ENGINE: QST30 (30L) - 1500HP @1900RPM (FR5352)  
 RECOMMENDED FAN DIAMETER: 57"  
 FAN CENTER: 24.00 (FROM CRANK C/L)  
 CONFIGURATION: BLOWER (CCW)  
 THEORETICAL LAT: 120°F  
 IMTD: 40°F  
 PREHEAT: 8°F  
 COOLERS: JW, LTA, FOC



DIMENSIONS ARE IN: INCHES		DO NOT SCALE PRINT	CMI DATA CLASSIFICATION	Cummins Confidential	Cummins Inc.
[ ]	ARE IN: [ ]	SCALE 0.100	DWN RL	CKD BES	ITEM NAME
DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED		CKD BES	APVD BES	ASME Y14.5-2009	ASM, COOLING SYSTEM
X: ± .10 IN OR 2.7 mm		APVD BES	DATE 12-09-18	OST30 TAF, 120 LAT, W/HE	
X:Z: ± .030 IN OR 0.76 mm		DATE 12-09-18	FOR INTERPRETATION OF		
X:Z: ± .010 IN OR 0.25 mm		SEE ASME Y14.5-2009	DIMENSIONING AND TOLERANCING		
ANGULAR TOLERANCE: ± 1°		MUST CONFORM TO CES 10903	SEE ASME Y14.5-2009	CAD SHEET 3 OF 3	ITEM NUMBER RA100016
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