

DATUMS:

- A- - MOUNTING FACE OF FLYWHEEL
- B- - ENGINE CRANKSHAFT HORIZONTAL \perp
- C- - ENGINE CRANKSHAFT VERTICAL \perp
- CENTER OF GRAVITY
- CLOCKWISE (CW) ROTATION WHEN VIEWED FROM FRONT OF ENGINE

CAUTION:

ALL PLUMBING MUST BE SUPPORTED AND/OR ISOLATED SO THAT NO WEIGHT OR STRESS IS APPLIED TO ANY ENGINE COMPONENT

ATTENTION:

REFER TO THE SPECIFIC MODELS' "INSTALLATION AND OPERATION DATA" FOR INSTALLATION GUIDELINES

AVAILABLE MODELS:

- C18H0-UFAD10
- C18H0-UFAD18
- C18H0-UFAD20
- C18H0-UFAD28
- C18H0-UFAD30
- C18H0-UFAD38
- C18H0-UFAD40
- C18H0-UFAD42
- C18H0-UFAD42-D
- C18H0-UFAD48
- C18H0-UFAD50
- C18H0-UFAD58
- C18H0-UFAD68
- C18H0-UFAD70
- C18H0-UFAD78

MODELS ARE TURBOCHARGED WITH RAW WATER AFTER COOLING

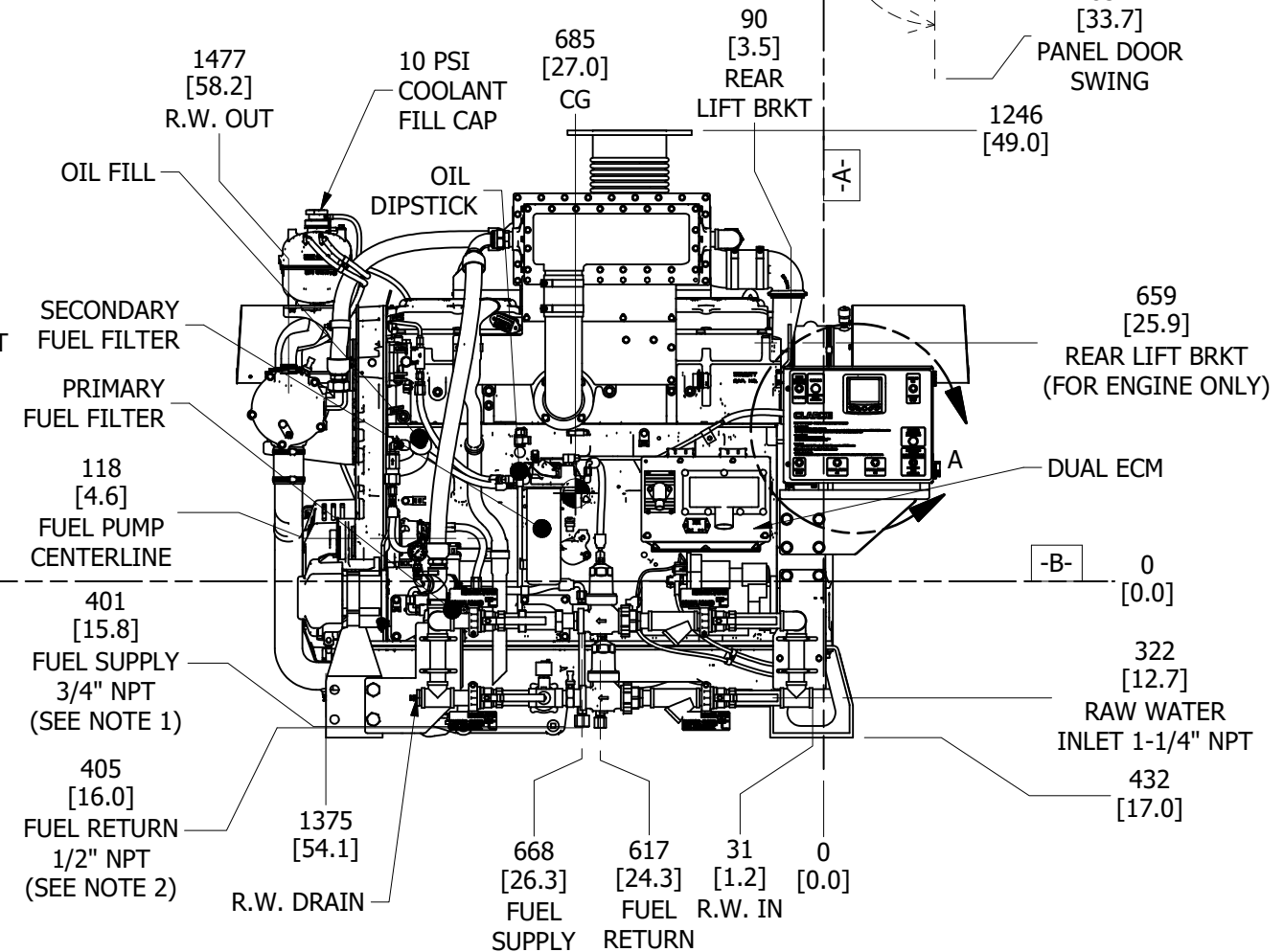
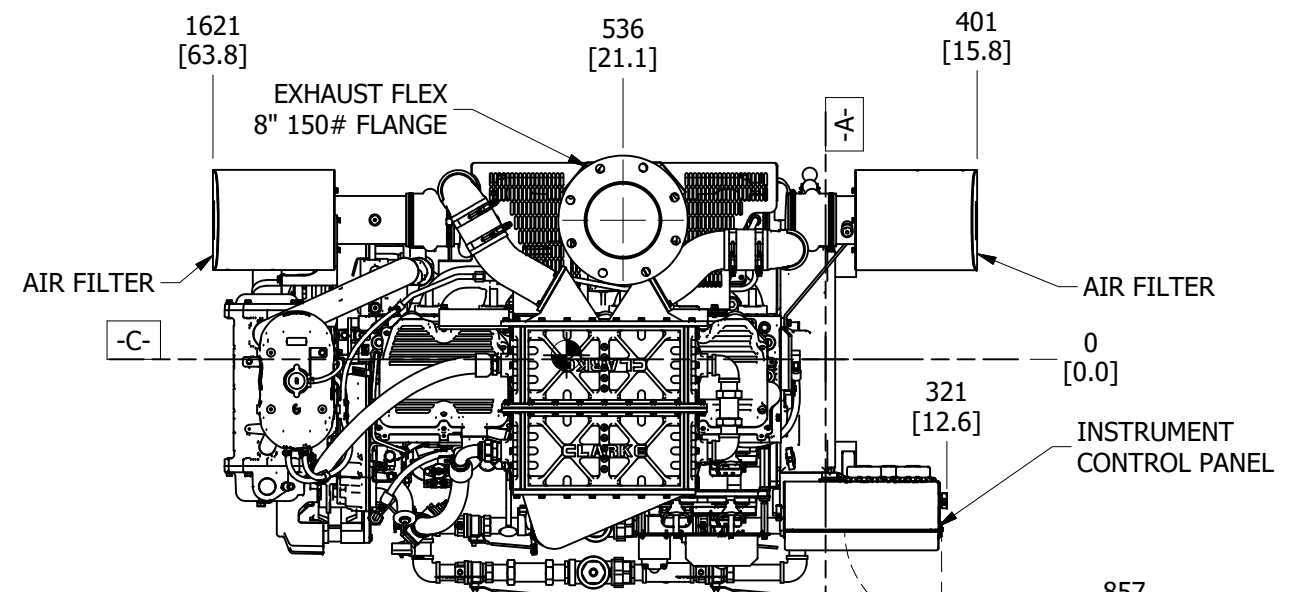
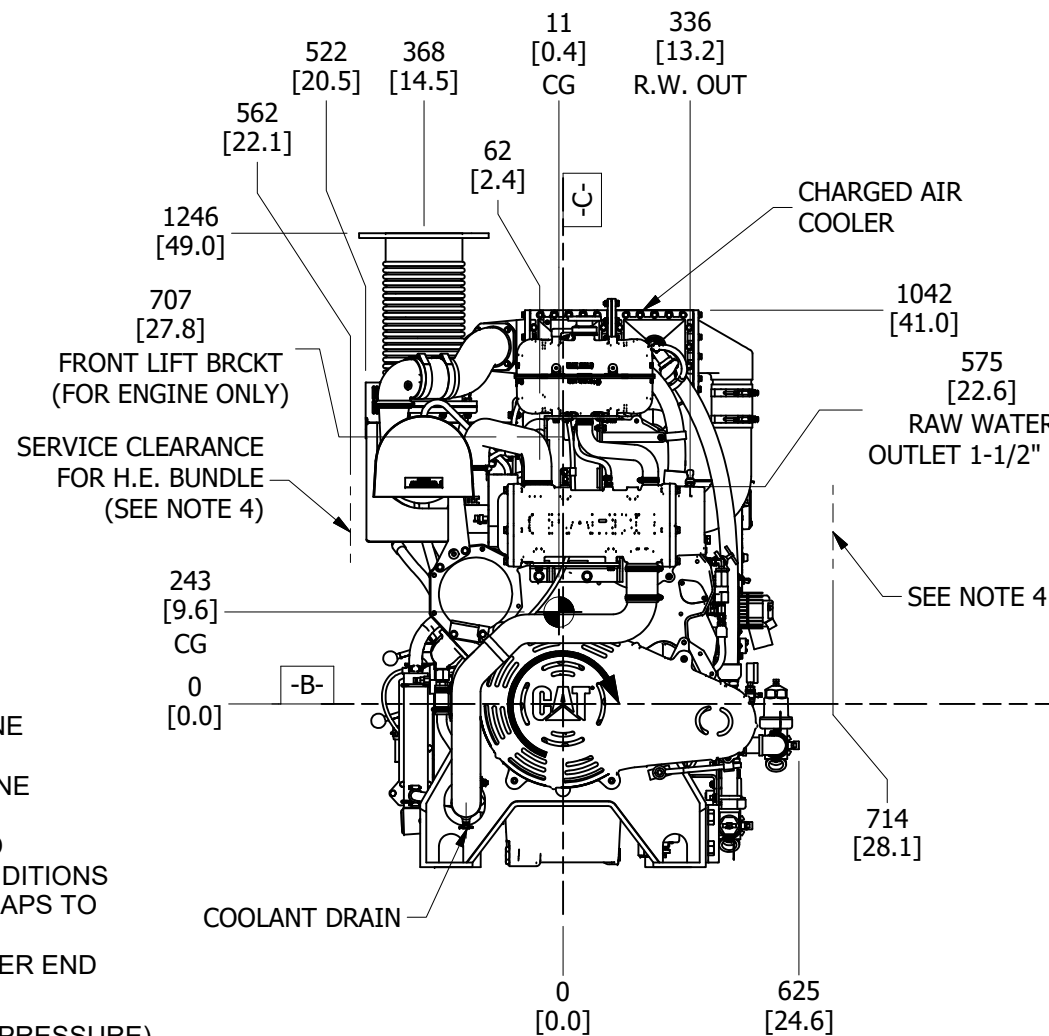
NOTES:

- 1) FUEL SUPPLY PIPING FROM TANK TO ENGINE SHOULD BE 3/4" MINIMUM PIPE DIAMETER
- 2) FUEL RETURN PIPING FROM TANK TO ENGINE SHOULD BE 1/2" MINIMUM PIPE DIAMETER
- 3) THE LOOP SHOWN IS BASED ON STANDARD LOOP CONSTRUCTION AND FM SIZING CONDITIONS
- 4) HEAT EXCHANGER HAS REMOVABLE END CAPS TO SERVICE THE INTERNAL BUNDLE. THE BUNDLE CAN BE REMOVED FROM EITHER END FOR ALTERNATE LOOP CONSTRUCTION (STAINLESS STEEL, SEA WATER AND HIGH PRESSURE) SIZES MAY VARY

M6x1.5 X 20LG
HEX BOLT
4X

3" X 3" GLAND PLATE
FOR FIRE PUMP
CONTROLLER WIRING

DETAIL A



CONTROLLED DRAWING

THIS IS A REGISTERED PART WITH A THIRD PARTY AGENCY FOR USE ON A PRODUCT. NO SUBSTITUTIONS ARE ALLOWED. CONSULT ENGINEERING PRIOR TO AND REGARDING ANY CHANGE.

FOR ENGINE SPECIFIC OPTIONS
SEE www.clarkefire.com

DRAWING SUBJECT TO CHANGE WITHOUT NOTICE
DO NOT SCALE

REV	DESCRIPTION	ECN#	DWN	APVD	DATE
A	ISSUED ENGINEERING DRAWING	5489	MLL	KRW	26JUL22

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UNLESS NOTED OTHERWISE, TOLERANCING GUIDELINES WILL BE AS SHOWN BELOW.

ALL DIMENSIONS CAN VARY ± 9.53 [0.375]

YES NO
CONTROLLED DRAWING

DRWN BOPREA
DATE 4/20/2022
ENGR CROBBINS
MATERIAL
ASSEMBLY NSR
SIMILAR TO D845

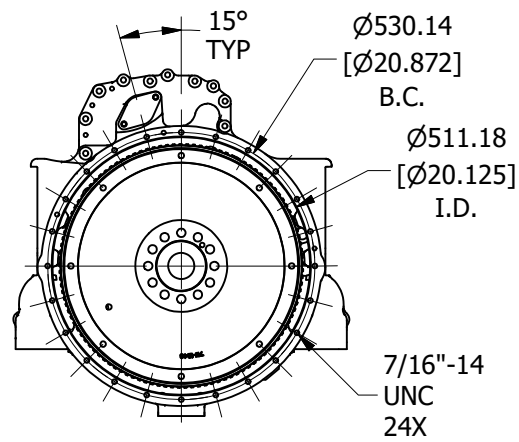
CLARKE®

NAME **INSTALLATION DRAWING, FIRE PUMP ENGINE C18H0 & C18H0 PLD TIER 3 NSR MODELS**

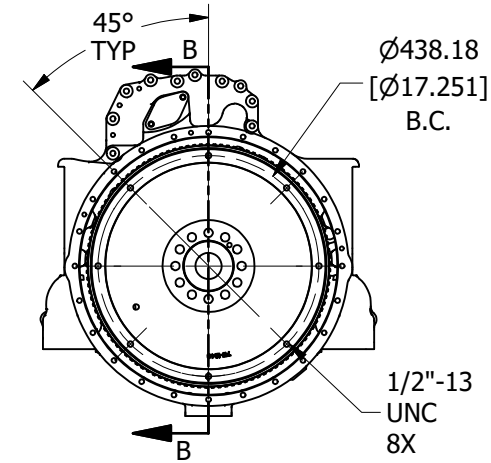
PART NO. **D880**

SCALE NTS UNITS MM [INCH]

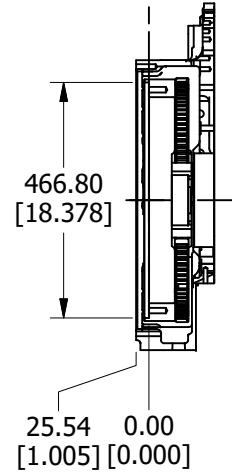
PAGE 1 OF 2



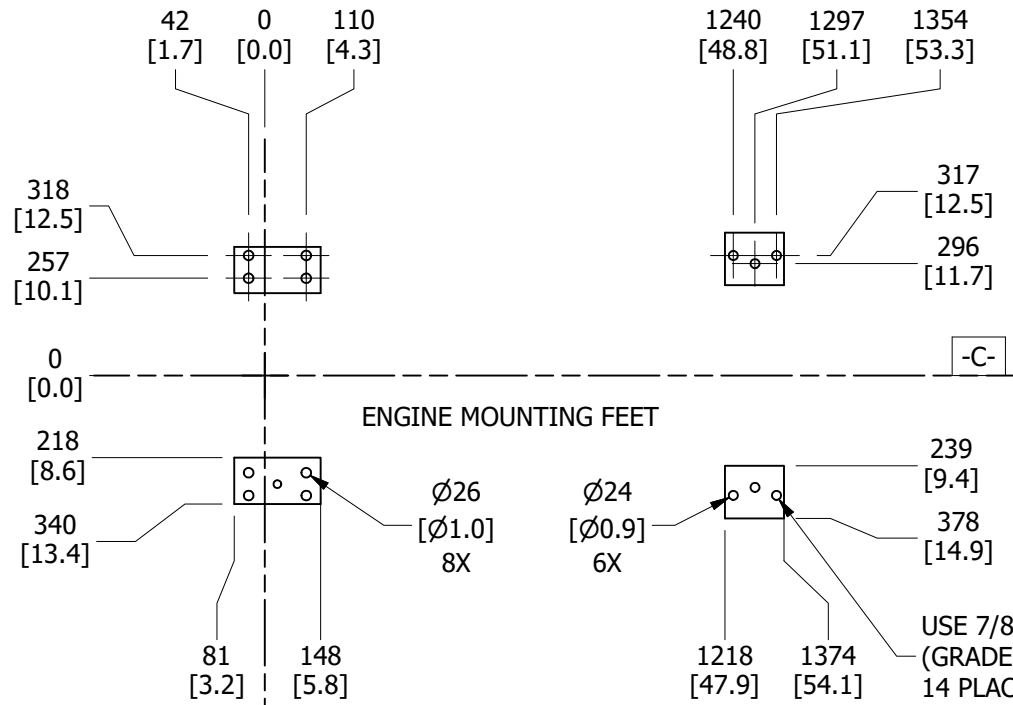
SAE #1
FLYWHEEL HOUSING



SAE 14 FLYWHEEL WITH
113 TEETH AND 6/8 PITCH RING GEAR

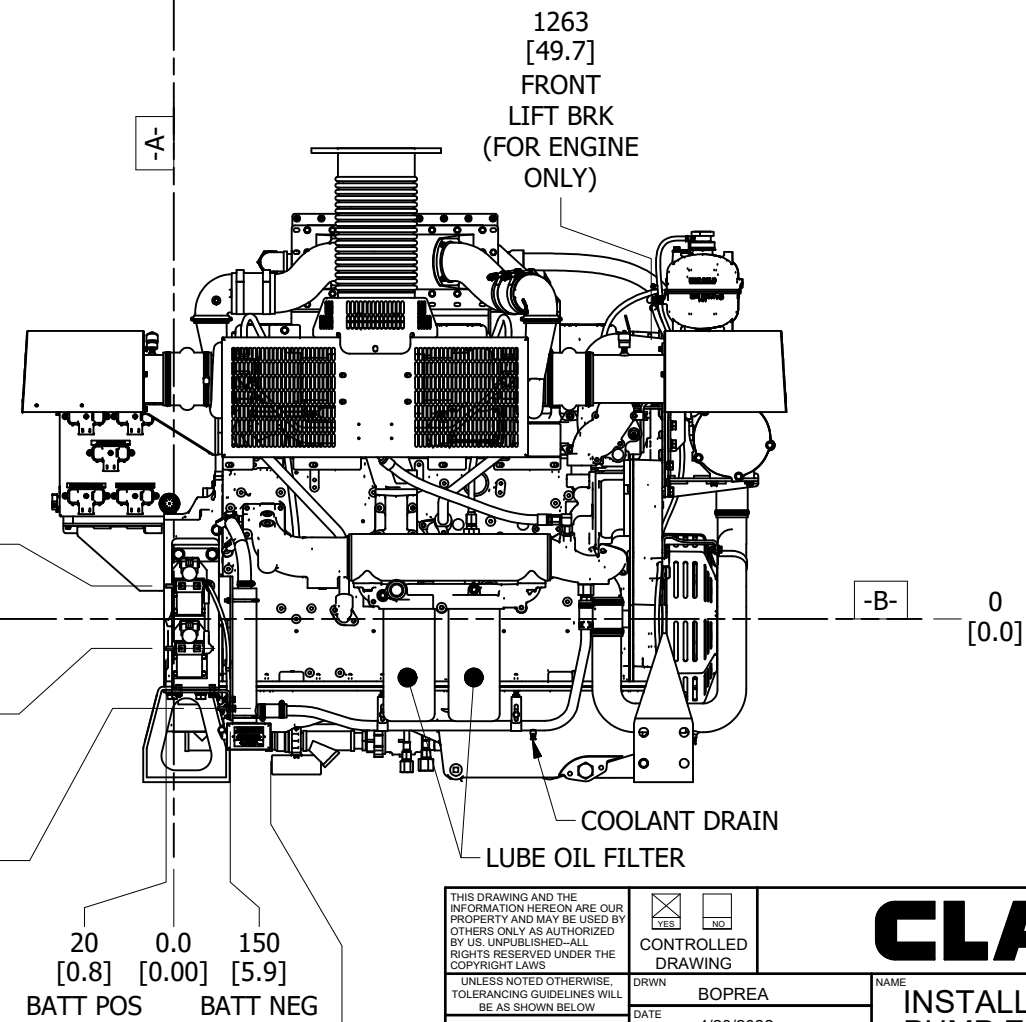
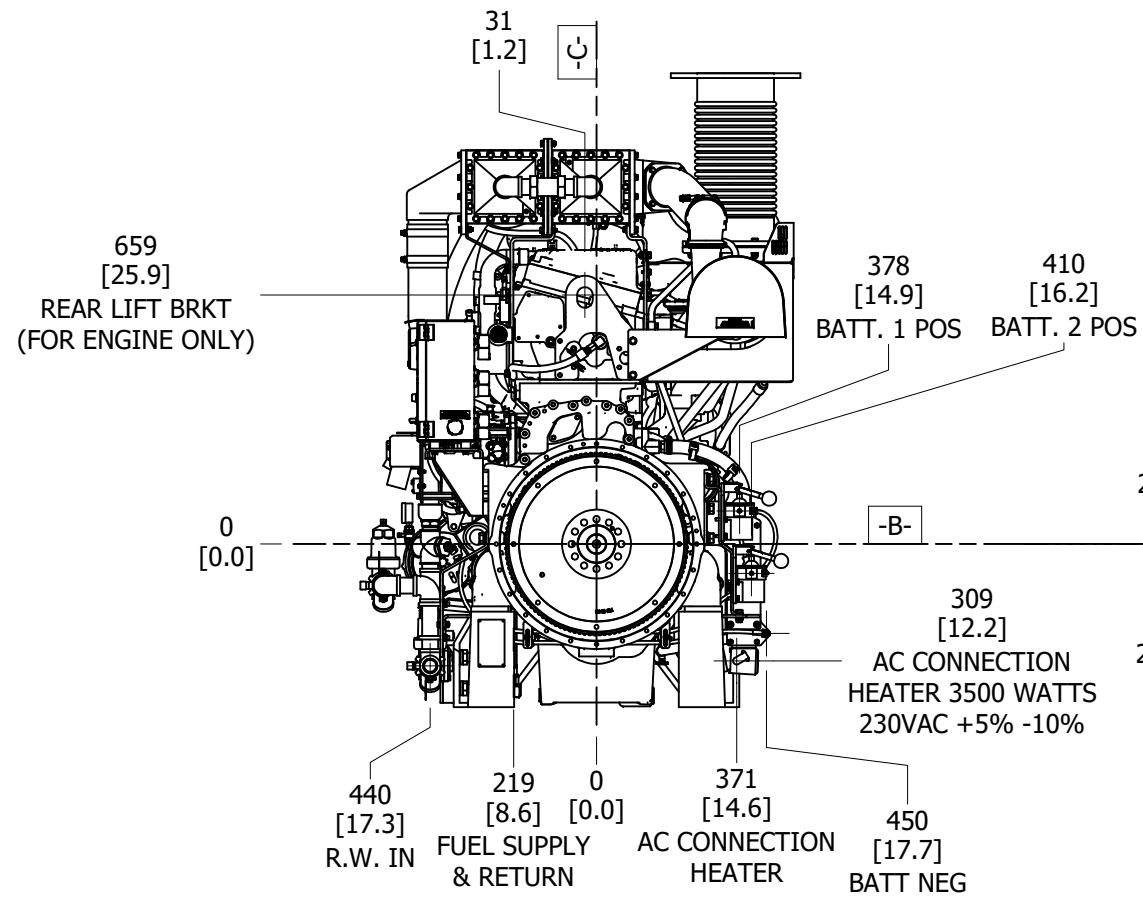


SECTION A-A



ENGINE MOUNTING FEET

USE 7/8" MOUNTING HARDWARE
(GRADE 8, CLASS 10.9 RECOMMENDED)
14 PLACES



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	DRWN BOPREA	PART NO. D880
	DATE 4/20/2022	REV A
	ENGR CROBBINS	SCALE NTS
	MATERIAL NSR	UNITS MM [INCH]

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NAME
INSTALLATION DRAWING, FIRE PUMP ENGINE C18H0 & C18H0 PLD TIER 3 NSR MODELS

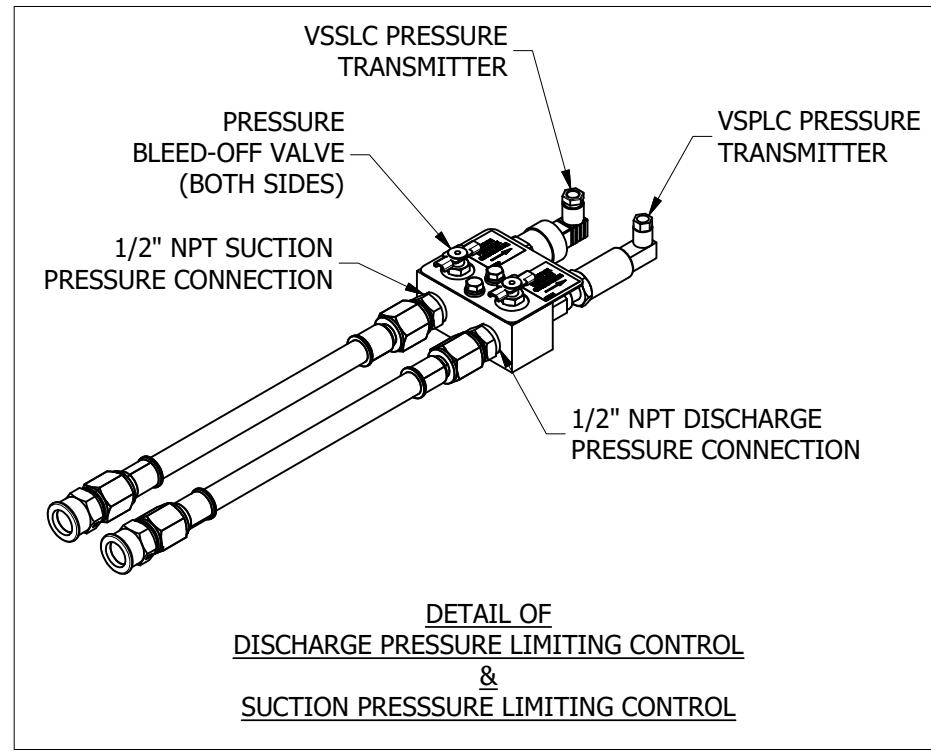
PART NO.
D880

SCALE
NTS

UNITS
MM [INCH]

PAGE
2

OF
2

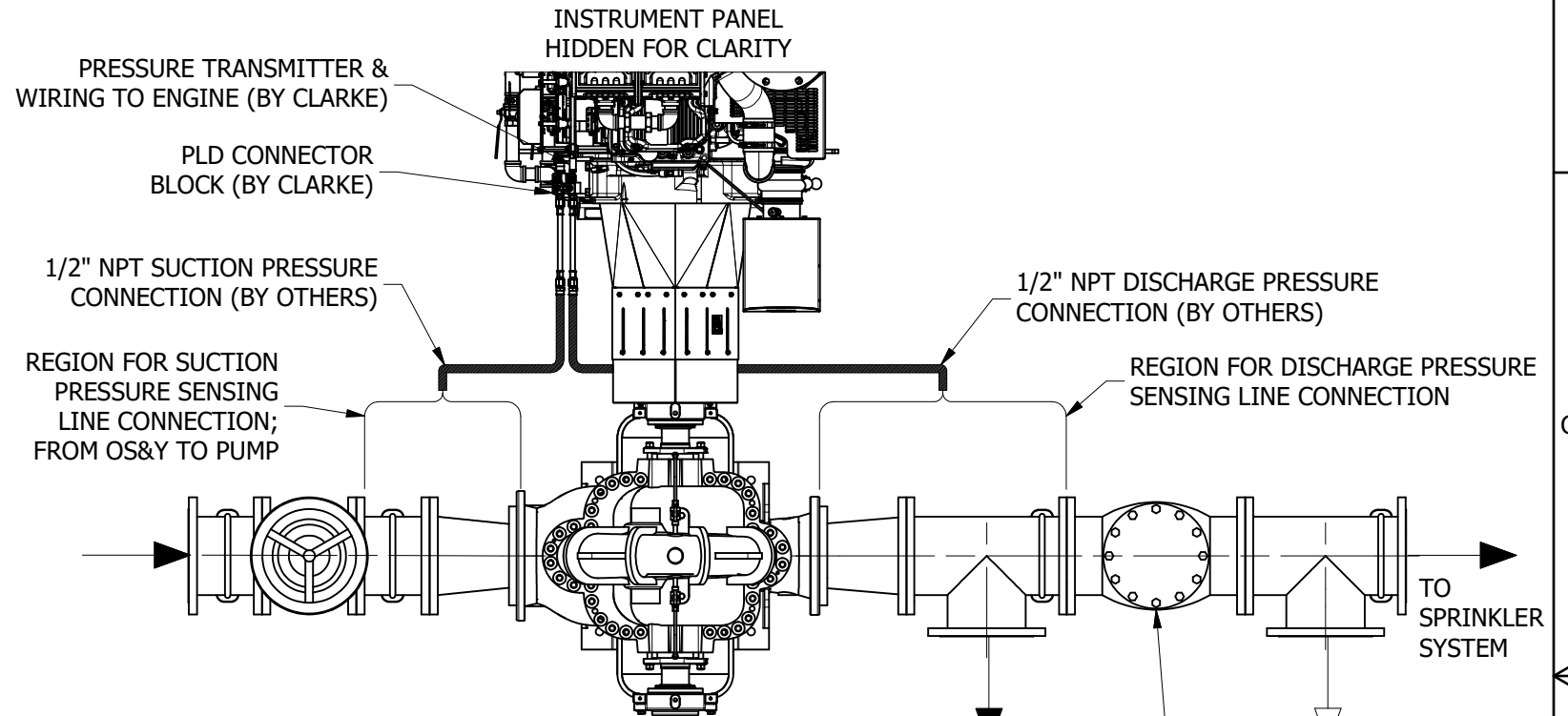


SUCTION PRESSURE LIMITING CONTROL SENSING LINE CONNECTION

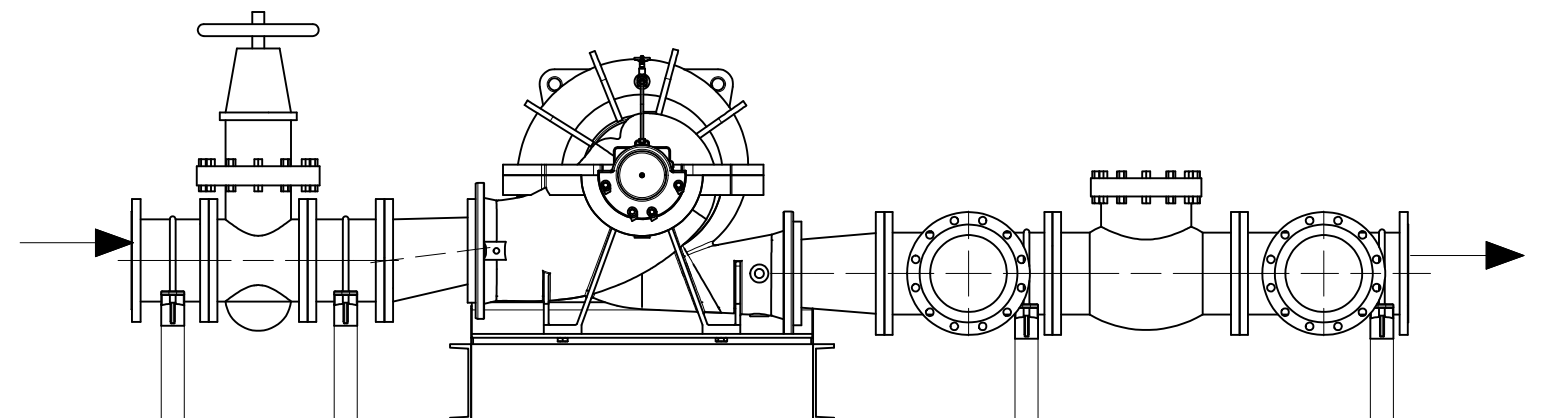
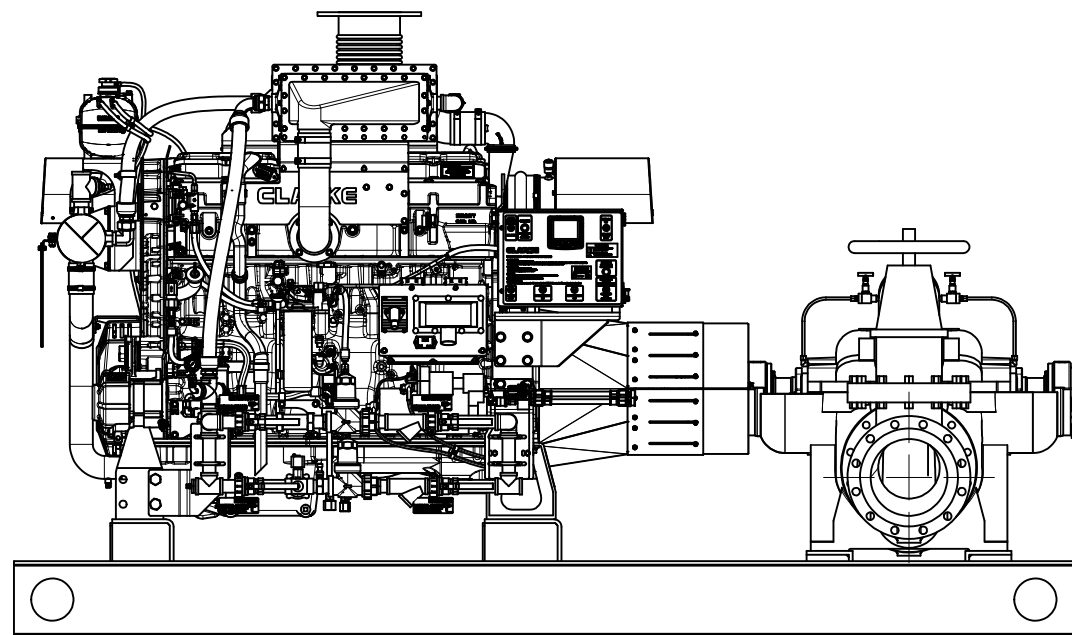
THE SINGLE SUCTION PRESSURE LIMITING CONTROL SENSING LINE SHALL BE CONNECTED IN THE IMMEDIATE REGION UPSTREAM OF THE PUMP INLET.

DISCHARGE PRESSURE LIMITING CONTROL SENSING LINE CONNECTION

THE SINGLE DISCHARGE PRESSURE CONTROL SENSING LINE SHALL BE CONNECTED IN THE REGION BETWEEN THE PUMP DISCHARGE FLANGE & THE CHECK VALVE.



NOTE: PLD DISCHARGE & SUCTION LINES SHALL BE BRASS, COPPER, OR SERIES 300 STAINLESS STEEL PIPE OR TUBE.



CONTROLLED DRAWING

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REV	DESCRIPTION	ECN#	DWN	APVD	DATE
A	ISSUED ENGINEERING DRAWING	5656	MDM	<i>CLR</i>	13FEB20
B	DATUM -A- HAS BEEN CORRECTED AND MOVED 0.55" TOWARDS THE FRONT	6326	MLL	<i>CLR</i>	27APR21
-	ADDED CONTROLLED DRAWING NOTATION	6309	EJT	<i>MAD</i>	13JUL21

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DECIMAL	mm	inch
X	± 1.5	
X.X	± 0.8	± 0.06
X.XX	± 0.3	± 0.03
X.XXX		± 0.01

ANGULAR: ± 0.5°

YES NO

CONTROLLED DRAWING

DRWN: MMALOY
DATE: 1/21/2020
ENGR: CROBBINS
MATERIAL:
ASSEMBLY: C18 PLD
SIMILAR TO: ORIGINAL PART

CLARKE

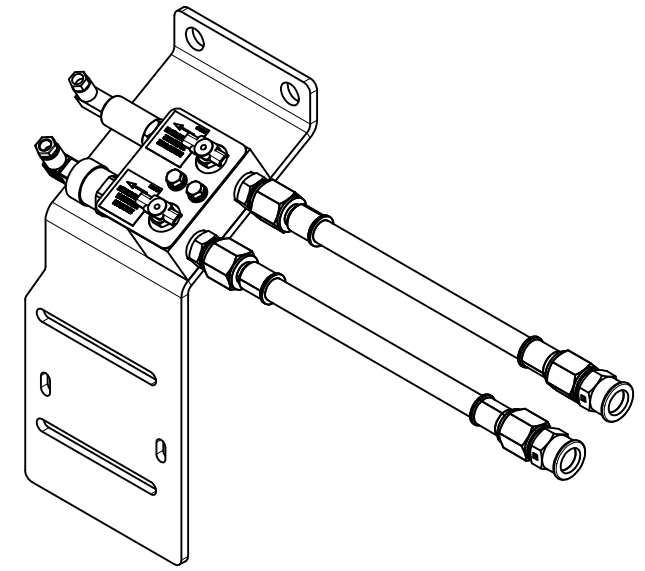
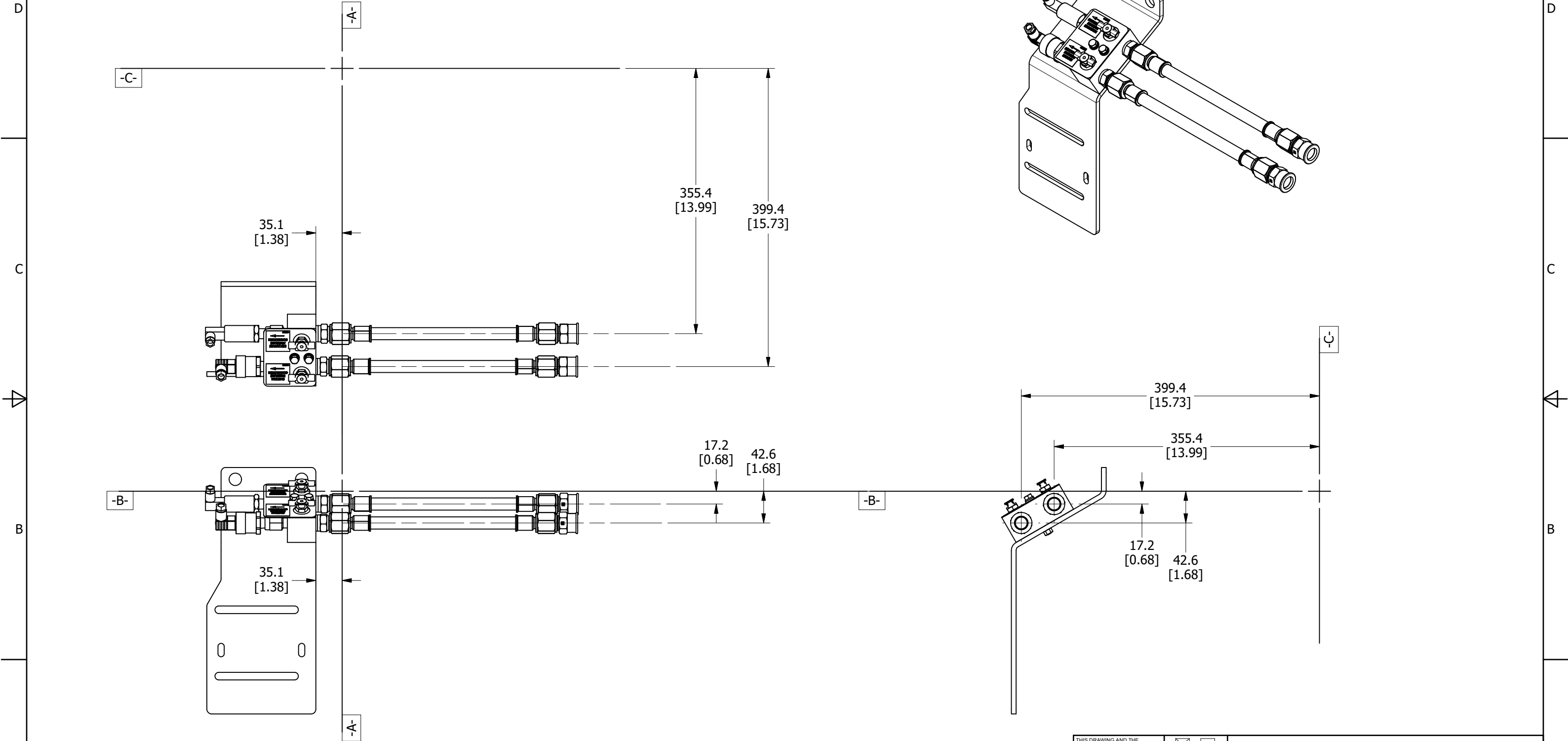
NAME: SCHEMATIC, C18 ELECTRONIC PLD

PART NO.: C137984

SCALE: NTS UNITS: MM [INCH]

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CLARKE C18 ENGINE MODELS
 REFERENCE D857 FOR STANDARD
 ENGINE INSTALLATION DRAWING



DATUMS:

- A- - MOUNTING FACE OF FLYWHEEL
- B- - ENGINE CRANKSHAFT HORIZONTAL \perp
- C- - ENGINE CRANKSHAFT VERTICAL \perp

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<small>UNLESS NOTED OTHERWISE, TOLERANCING GUIDELINES WILL BE AS SHOWN BELOW.</small>		CONTROLLED DRAWING	
<small>STANDARD TOLERANCE</small> DECIMAL mm inch X ± 1.5 X.X ± 0.8 ± 0.06 X.XX ± 0.3 ± 0.03 X.XXX ± 0.01		DRWN MMALLOY DATE 1/21/2020 ENGR CROBBINS	NAME SCHEMATIC, C18 ELECTRONIC PLD
ANGLAR: ± 0.5°		ASSEMBLY C18 PLD SIMILAR TO ORIGINAL PART	PART NO. C137984 SCALE NTS UNITS MM [INCH]
		REV B	PAGE 2 OF 2