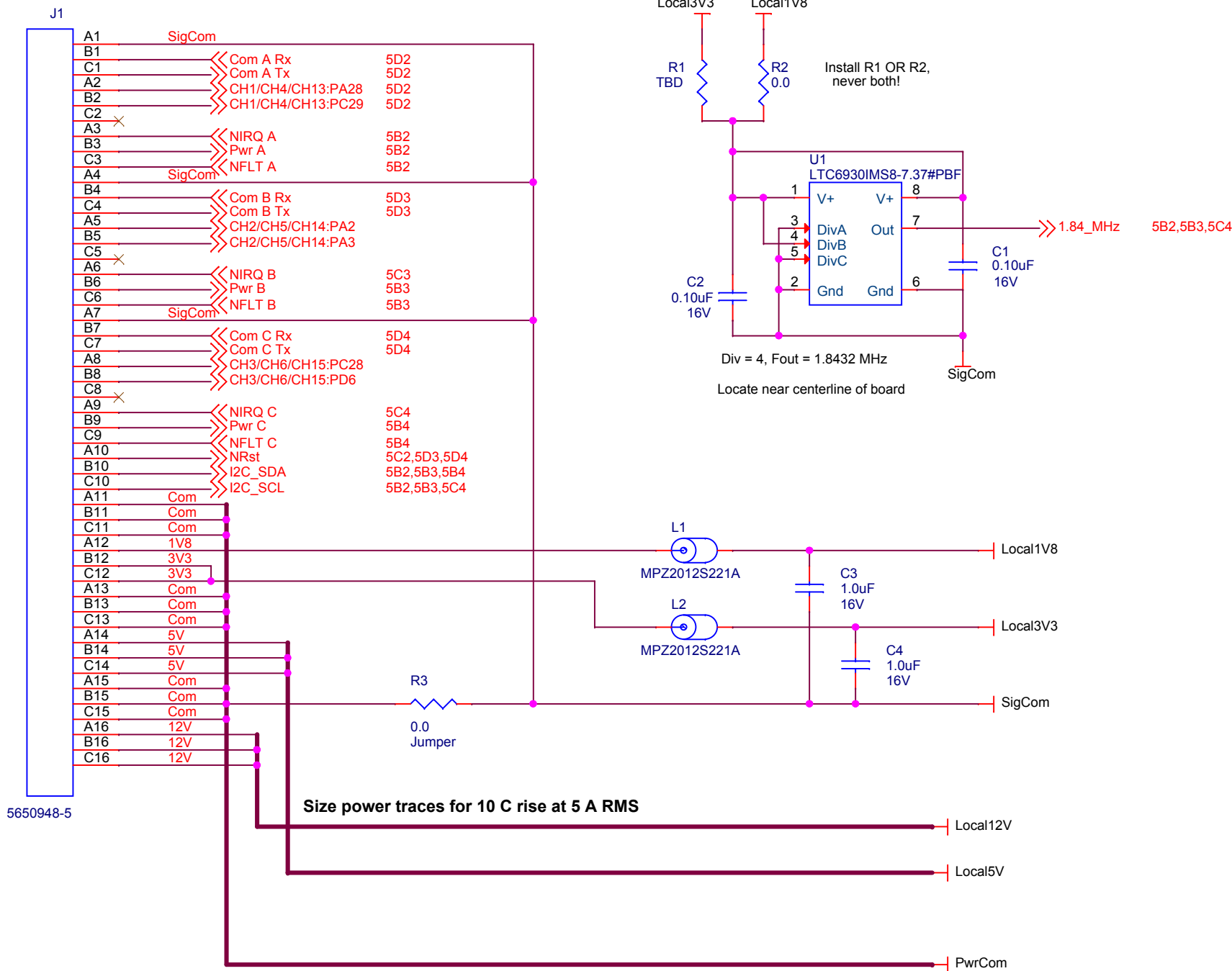


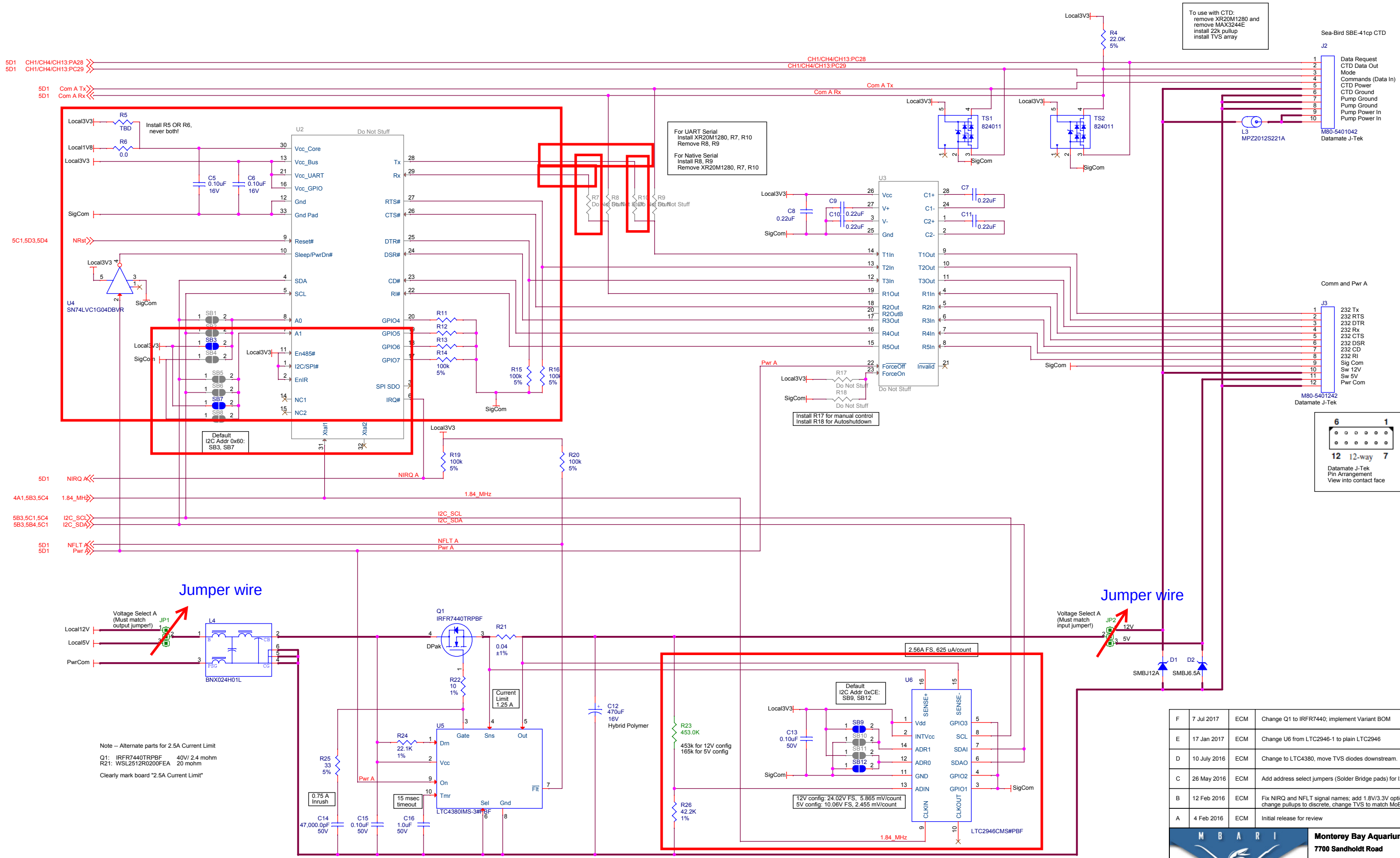


D	24 Aug 2016	ECM	Correct separation of Com and SigCom nets
C	26 May 2016	ECM	Change J1 signal names to match .XLS sheet 13 (18 Apr 16)
B	12 Feb 2016	ECM	Fix NIRQ and NFLT signal names; add 1.8V/3.3V option for oscillator
A	4 Feb 2016	ECM	Initial release for review

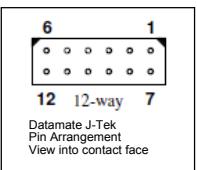
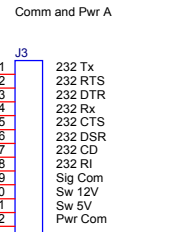
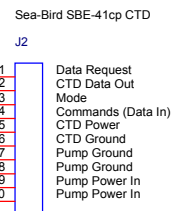


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Title Schematic, Bus Interface, Power Switch Board, Coastal Profiling Float			Document Number 100221094	Rev D
Size B	Date: Wednesday, July 19, 2017	Engineer Mellinger	Sheet 1	of 5
Design File X:\CPFI\ELECTRICAL ENGR\ORCAD PROJECTS\IED'S STUFF\SCHEMATICS\100221094-CPF-POWERSWITCH.DSN				
Schematic Name 100221094CPF-PwrSwitchSchematic		Page Name 01BusInterface		Layout File <Layout File>



To use with CTD:
remove XR20M1280 and
remove MAX3244E
install 22k pullup
install TVS array

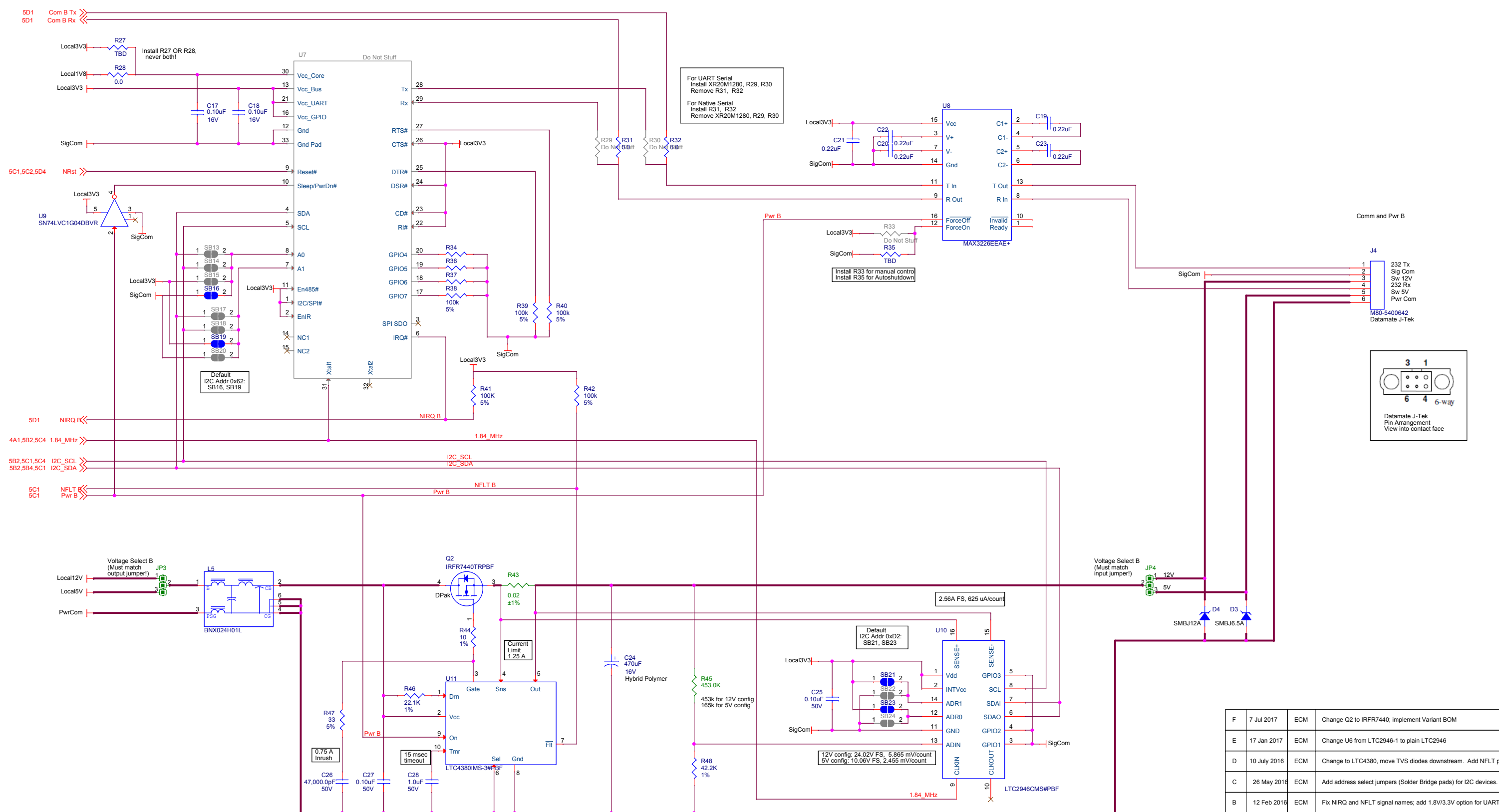


F	7 Jul 2017	ECM	Change Q1 to IRFR7440; implement Variant BOM
E	17 Jan 2017	ECM	Change U6 from LTC2946-1 to plain LTC2946
D	10 July 2016	ECM	Change to LTC4380, move TVS diodes downstream. Add NFLT pullup.
C	26 May 2016	ECM	Add address select jumpers (Solder Bridge pads) for I2C devices.
B	12 Feb 2016	ECM	Fix NIRO and NFLT signal names; add 1.8V/3.3V option for UART; change pullups to discrete, change TVS to match MoBo.
A	4 Feb 2016	ECM	Initial release for review



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Title: Schematic, Channel A, Power Switch Board, Coastal Profiling Float		Document Number: 100221094	Rev: F
Size: Custom		Date: Thursday, July 20, 2017	Engineer: Mellinger
Design File: X:\CPFELECTRICAL\ENGR\ORCAD\PROJECTS\SED'S STUFF\SCHMATIC\100221094-CPF-POWERSWITCH.DSN		Sheet 2 of 5	
Schematic Name: 100221094-CPF-PwrSwitchSchmatic		Page Name: 02ChannelA	Layout File: <Layout File>



For UART Serial
Install XR20M1280, R29, R30
Remove R31, R32

For Native Serial
Install R31, R32
Remove XR20M1280, R29, R30

Install R33 for manual control
Install R35 for Autoshtutdown

Default
I2C Addr 0x62:
SB16, SB19

Default
I2C Addr 0xD2:
SB21, SB23

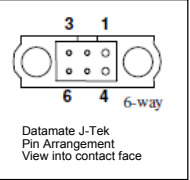
12V config: 24.02V FS, 5.865 mV/count
5V config: 10.06V FS, 2.465 mV/count

Current Limit
1.25 A

2.56A FS, 625 uA/count

453k for 12V config
165k for 5V config

LTC2946CMS#PBF

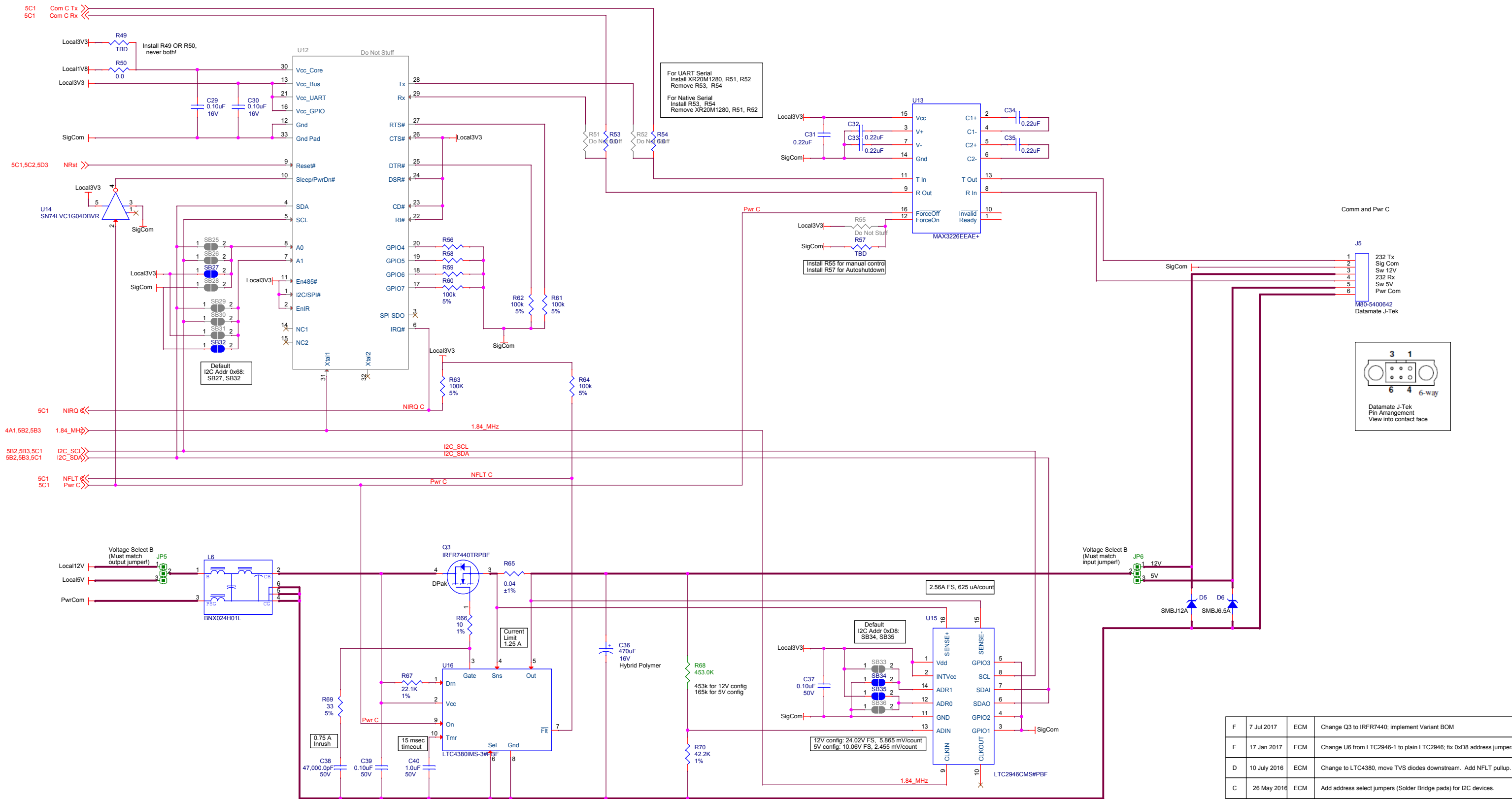


F	7 Jul 2017	ECM	Change Q2 to IRRFR7440; implement Variant BOM
E	17 Jan 2017	ECM	Change U6 from LTC2946-1 to plain LTC2946
D	10 July 2016	ECM	Change to LTC4380, move TVS diodes downstream. Add NFLT pullup.
C	26 May 2016	ECM	Add address select jumpers (Solder Bridge pads) for I2C devices.
B	12 Feb 2016	ECM	Fix NIRQ and NFLT signal names; add 1.8V/3.3V option for UART
A	4 Feb 2016	ECM	Initial release for review

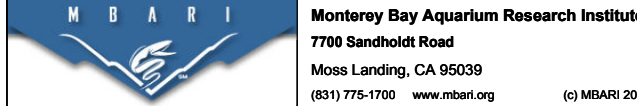


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Title		Schematic, Channel B, Power Switch Board, Coastal Profiling Float		Document Number	100221094	Rev	F
Size		Custom		SN 2 CTD Nitrate unused			
Date:		Thursday, July 20, 2017		Engineer	Mellinger	Sheet	3 of 5
Design File				X:\CPPIELECTRICAL ENGR\ORCAD PROJECTS\ED'S STUFF\SCHMATIC\100221094-CPF-POWERSWITCH.DSN			
Schematic Name		100221094-CPF-PwrSwitchSchematic		Page Name	03ChannelB	Layout File	<Layout File>



F	7 Jul 2017	ECM	Change Q3 to IREFR7440; implement Variant BOM
E	17 Jan 2017	ECM	Change U6 from LTC2946-1 to plain LTC2946; fix 0xD8 address jumpers
D	10 July 2016	ECM	Change to LTC4380, move TVS diodes downstream. Add NFLT pullup.
C	26 May 2016	ECM	Add address select jumpers (Solder Bridge pads) for I2C devices.
B	12 Feb 2016	ECM	Fix NIRQ and NFLT signal names; add 1.8V/3.3V option for UART
A	1 Feb 2016	ECM	Initial release for review



Title			Schematic, Channel C, Power Switch Board, Coastal Profiling Float		Document Number	100221094	Rev	F
Size	Custom	Date:	Wednesday, July 19, 2017	Engineer	Mellinger	Sheet	4	of 5
Design File								
X:\CPPIELECTRICAL\ENGR\ORCAD PROJECTS\IED'S STUFF\SCHEMATICS\100221094-CPF-POWERSWITCH.DSN								
Schematic Name			Page Name			Layout File		
100221094CPF-PwrSwitchSchematic			04ChannelC			<Layout File>		

