

Comment

2-18-20 counts recorded,
 sopenCnt 369, copencnt 12899, nopencnt 200, fntmrsw 28, fnswon 136, exfanhrs 289h 34m, exfanCnt 6710,
 sdrCnt 0, cdrCnt 6637, ndrCnt 0, all manually reset to zero except fan hours
 5-15-20 they say that all the doors opened mysteriously, all at the same time by themselves,
 5-15-20 ndrCnt 0, cdrCnt 1110, sdrCnt 0, exfanCnt 1122, exfanhrs 334:10, fntmrCnt 2, fnswon 20, nopencnt 68, copencnt
 2177, sopenCnt 83
 so added buffers in front of remote receiver to buffer inputs, redwnld, all counts to zero below
 5-26-20 add warning setup etc, redwnld= all counts zero, printed prgm sheets, extra fuses in near Smart
 9-23-20 cnts read, NdrCnt 0, CdrCnt 1534, SdrCnt 0, exfanCnt 1556, exfanhrs 56:50, fanswon 31, fantmrsw 4,
 opendrswrng 4, yelpbcnt 7, Nopencnt 45, Copencnt 2949, SopenCnt 127, pshcnN 67, pshcnC 5049, pshcnS 165, sameout
 0, sameincn 2, incnN 67, incnC 5049, incnS 165, slow flash on bckup light, all counts to zero
 12-15-20 counts read, NdrCnt 0, CdrCnt 1251, SdrCnt 0, exfanCnt 1256, ex fan hrs 61:23, fanswon 26, fantmrsw 1,
 opendrswrng 1, yelpbcnt 1, Nopencnt 24, Copencnt 2386, SopenCnt 42, pshcnN 41, pshcnC 2609, pshcnS 64, sameout 0,
 sameincn 0, incnN 41, incnC 2609, incnS 64, all counts to zero after redwnld
 1-6-21 Mov added, and ckd flash slowed down yes all done
 9-10-21 ,ounts read, ndrCnt 0, cdrCnt 3992, sdrCnt 0, exfanCnt 4007, exfanhrs 216:50, fanswonCnt 78, fanswtmr 0, ypb cnt
 9, opendrswrng 6, pshcnN 186, Nopencnt 105, sameout 0, pshcnC 8209, Copencnt 7495, incnN 186, sameincn 0, pshcnS
 235, incnC 8209, SopenCnt 169, incnS 235, all counts reset to zero
 10-20-21 door open warning count was all at zero, did not reset anything, left alone
 3-4-22 installed on city address, counts read ndr cnt 0, cdr cnt 2581, dr cnt 0, exfanCnt 2592, exfanhrs 100h 26m, fansw on
 30, fn tmrsw 2, Nopencnt 36, Copencnt 4969, SopenCnt 61, pshcnN 42, pshcnC 5397, pshcnS 82, sameout 0, sameincn 0,
 incnN 42, incnC 5397, incnS 82, opendrswr 1, yelpbcnt 11, redwnld all counts to zero
 4-1-22 bad online test so redwnld and good, all counts to zero

Creator:	John Ledbetter	DFD Lineshop	Project:	Sta 17 door project	Customer:	Denver Fire Department
Checked:	4-1-22		Installation:	Sta 17 doors	Diagram No.:	
Date:	9/12/16 9:56 AM/6/10/22 9:01 AM		File:	Sta 17 drs 4-1-22.lsc	Page:	1 / 22

Module Address

IP Address 10.126.164.229
Subnet Mask: 255.255.255.240
Default gateway 10.126.164.225

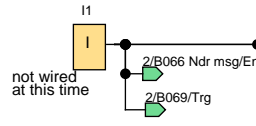
Creator:	John Ledbetter	DFD Lineshop	Project:	Sta 17 door project	Customer:	Denver Fire Department
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Station 17 Doors 4-1-22 WindLGC 8.0 Type FS-03

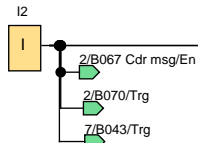
City IP address
10.126.164.229
255.255.255.240
\10.126.164.225

Door section, app. bay lts

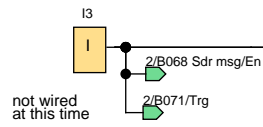
I1-NORTH DOOR



I2-CENTER DOOR

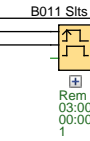
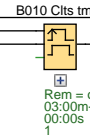
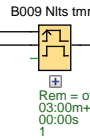


I3-SOUTH DOOR



Q1-APPARATUS BAY LIGHTS

Lot: W105°2'38"+
Lat: N39°46'43"
TZ: -7
Sunrise offset: 20
Sunset offset: -20

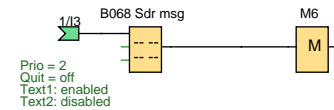
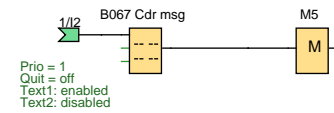
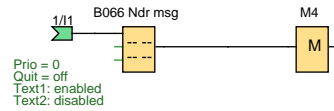


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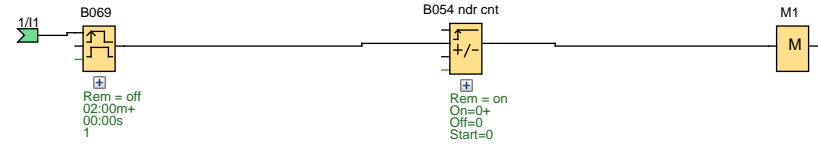
Sta 17

Door Counting sections

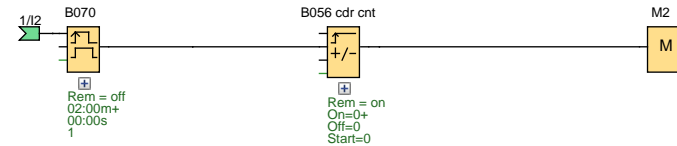
MESSAGE SECTION



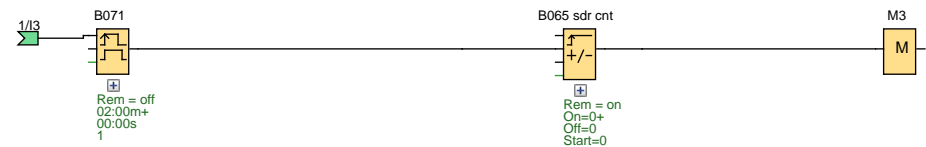
North door count



Center door count



South door count



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Sta 17 Doors Rig exhaust fan section

I4
Ex fan selector
sw "on"

I5
Ex fan selector
sw timed

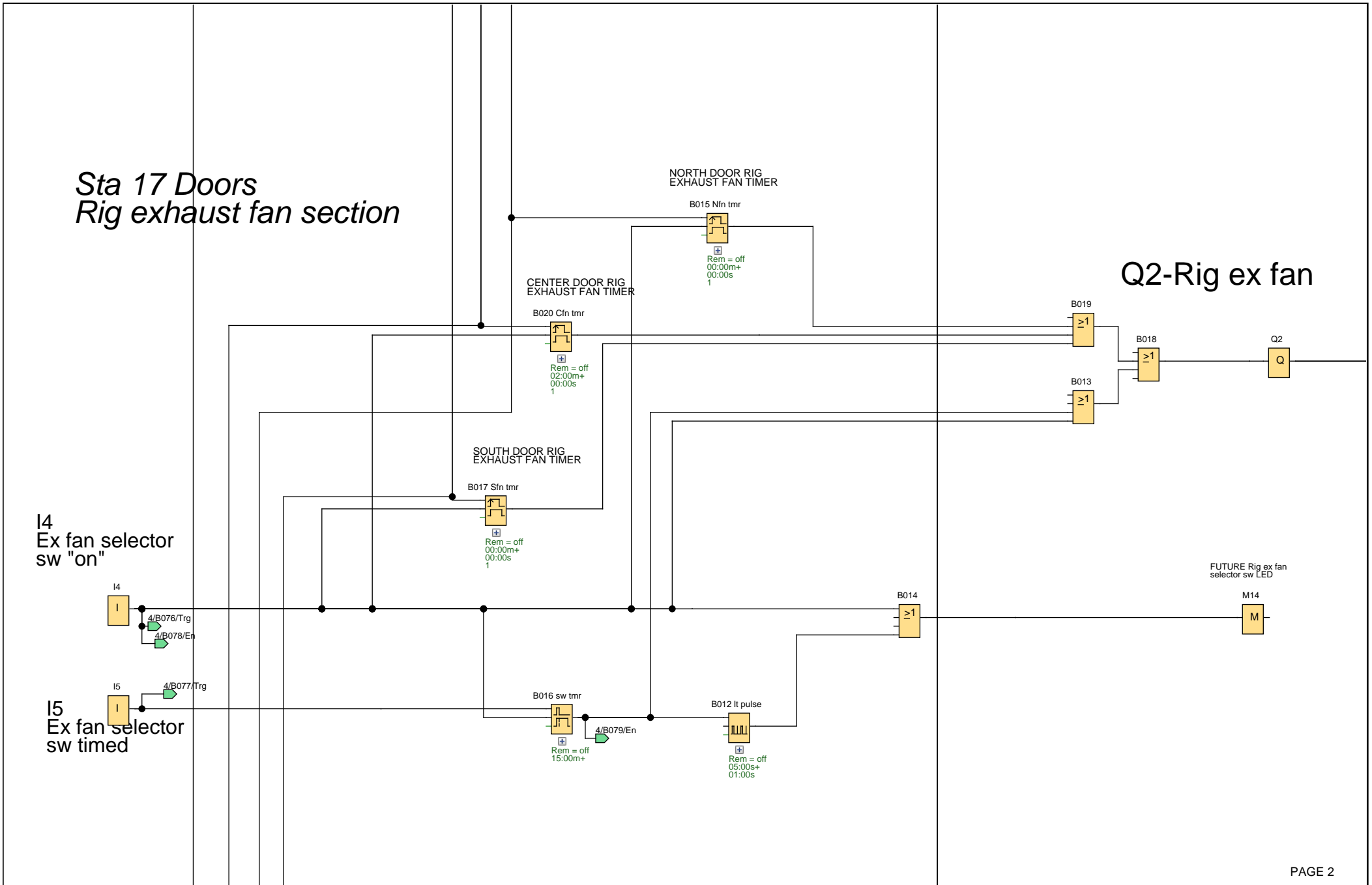
CENTER DOOR RIG
EXHAUST FAN TIMER

NORTH DOOR RIG
EXHAUST FAN TIMER

Q2-Rig ex fan

SOUTH DOOR RIG
EXHAUST FAN TIMER

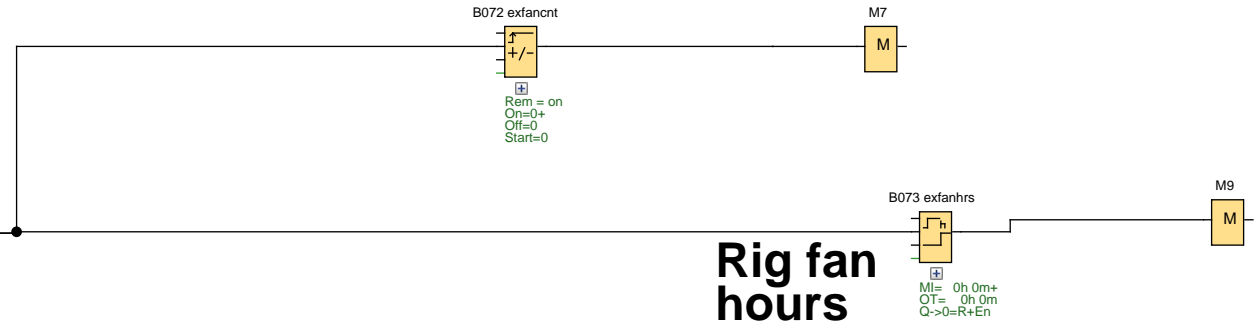
FUTURE Rig ex fan
selector sw LED



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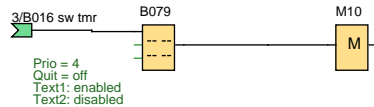
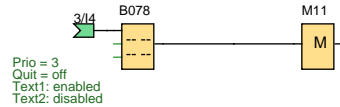
Rig Fan Counting sections

Rig fan "ON" count

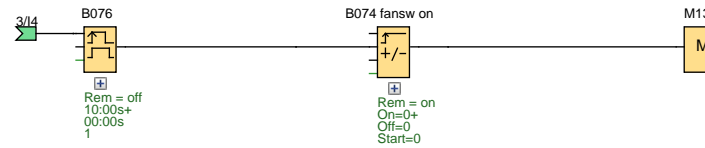


Rig fan hours

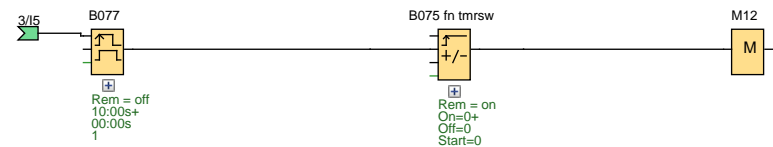
Message sections



Fan sw "on" count



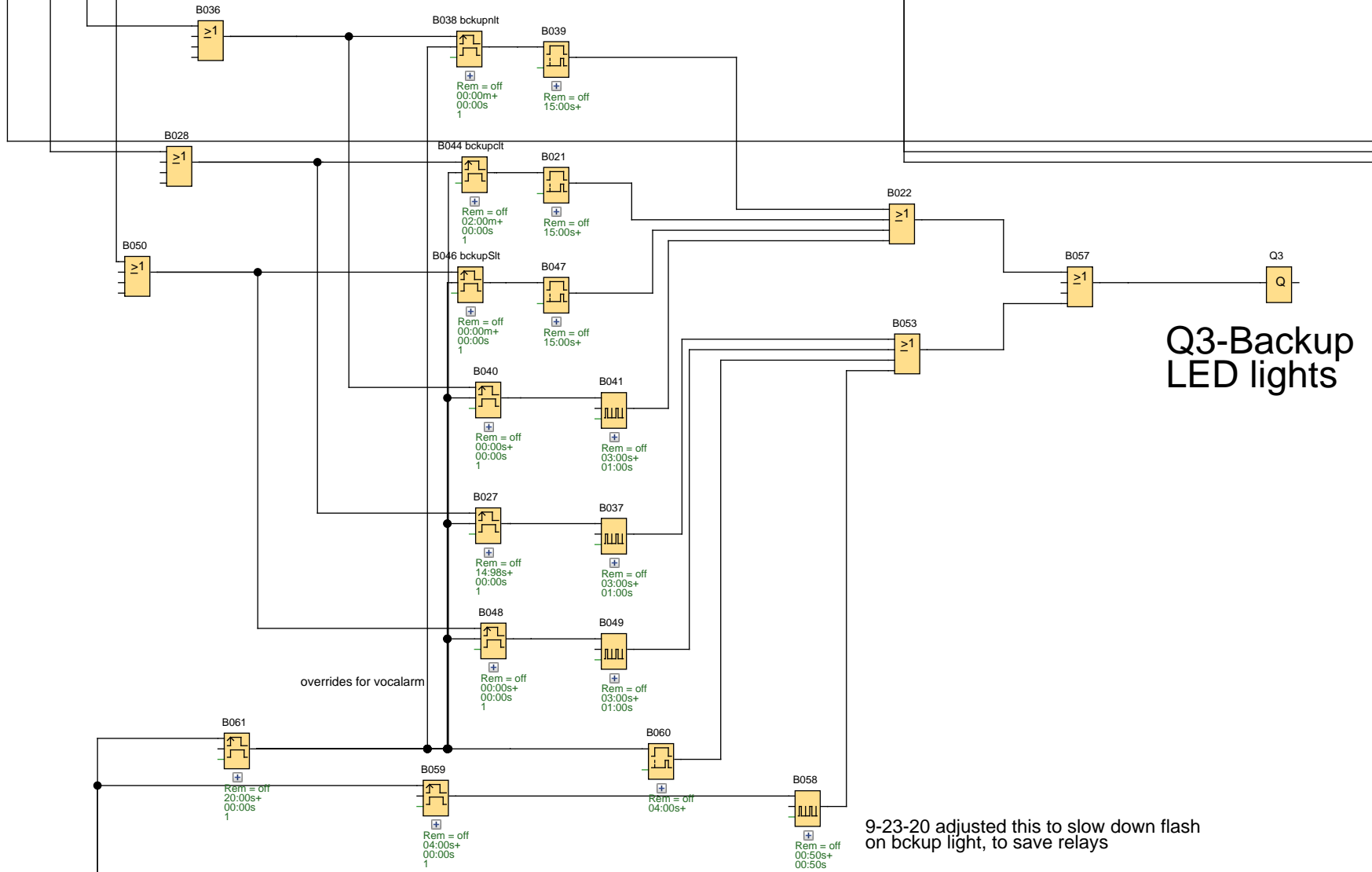
Fan timer switch counter



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Station 17 Doors

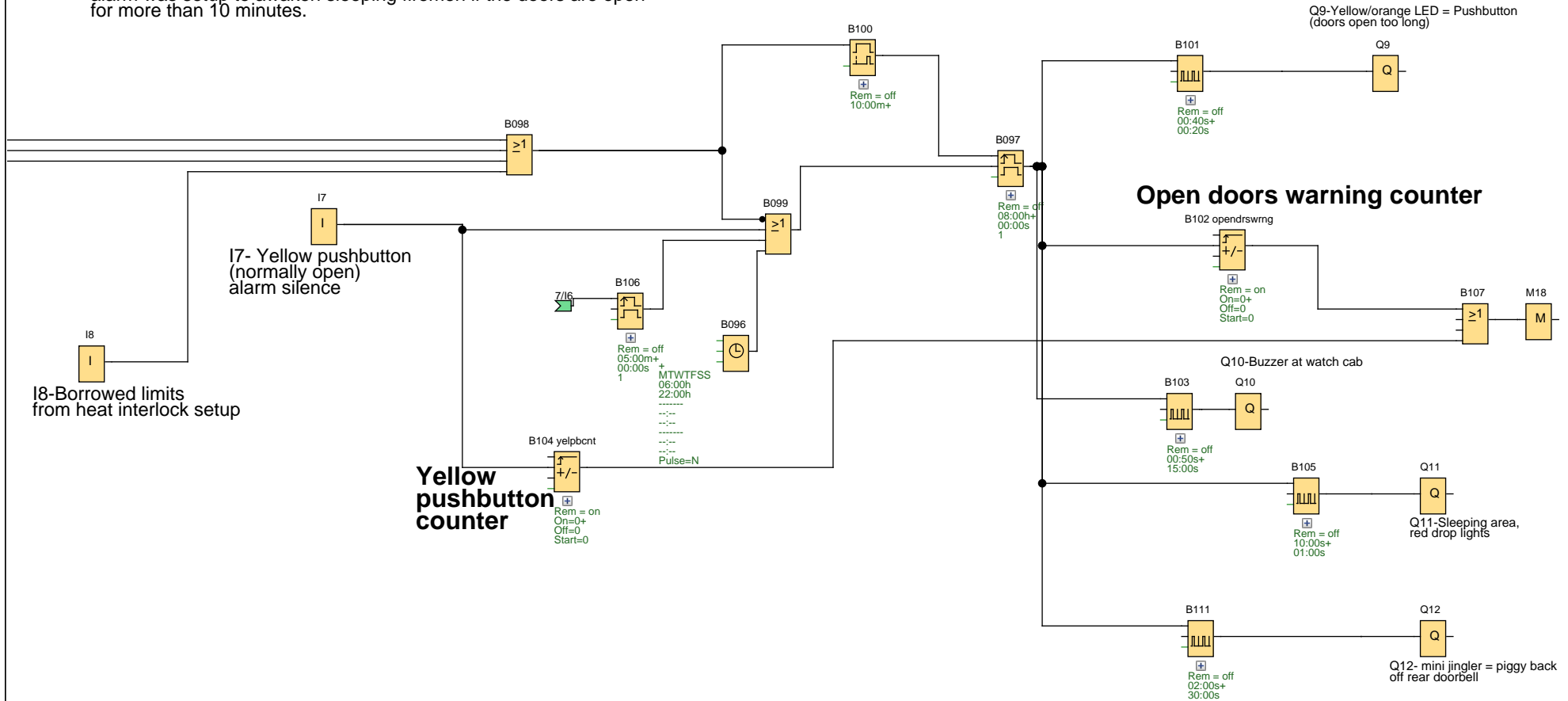
Back up LED light section



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Date:	9/12/16 9:56 AM/6/10/22 9:01 AM		File:	Sta 17 drs 4-1-22.lsc	Page:	7 / 22

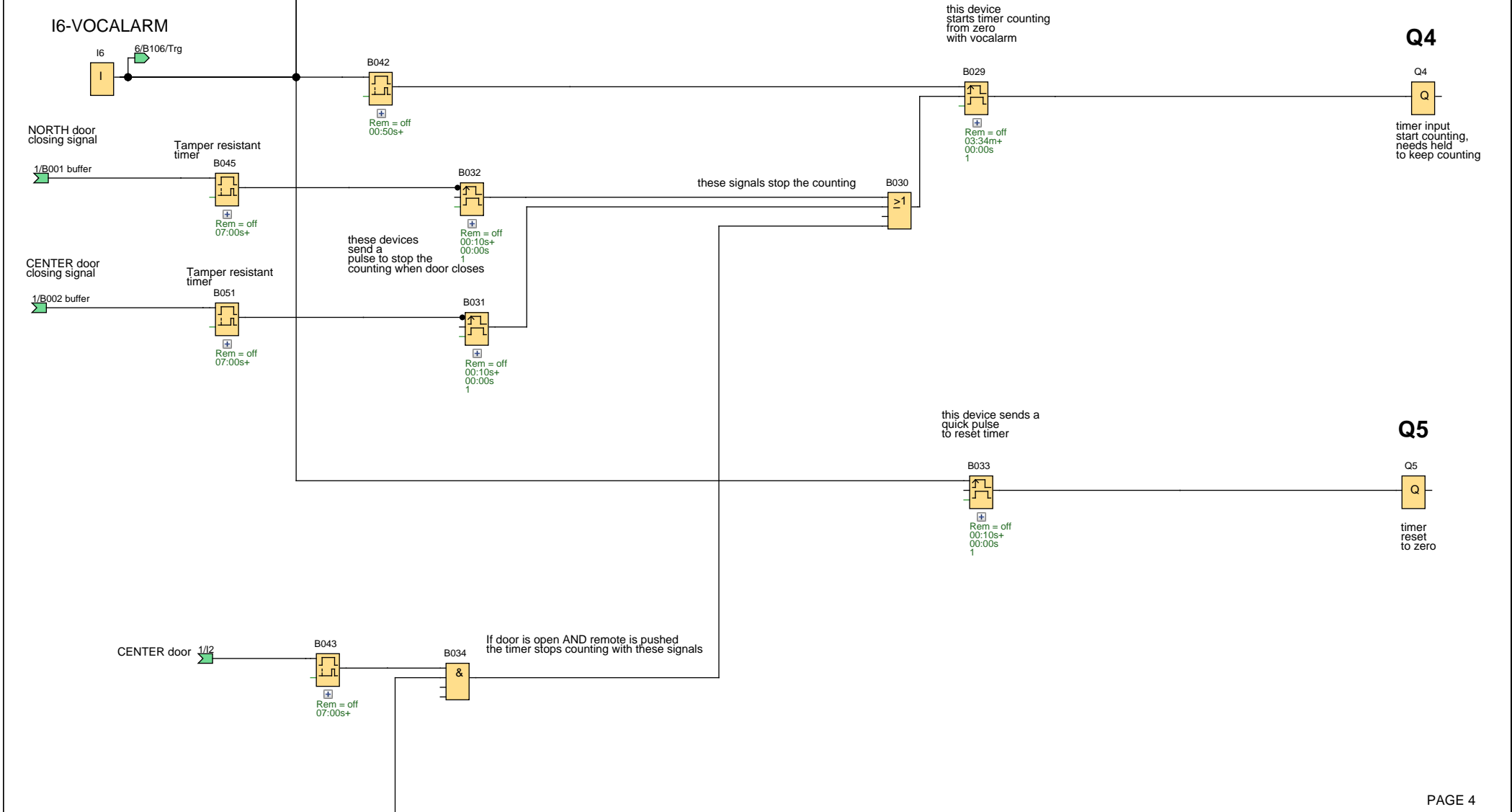
Sta 17 Door(s) are open at night warning system

Notes: The doors are opening mysteriously, so this warning alarm was setup to awaken sleeping firemen if the doors are open for more than 10 minutes.



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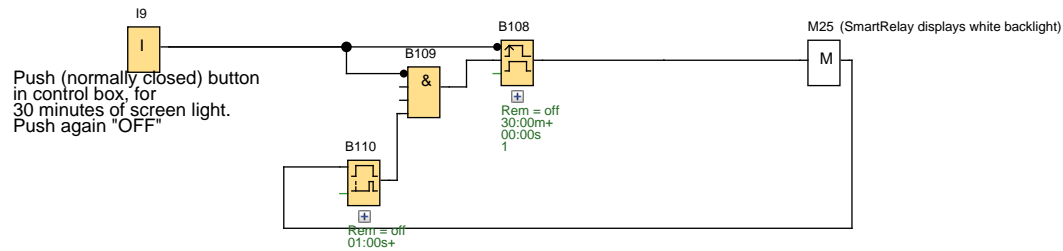
Sta 17 shot clock



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Sta 17

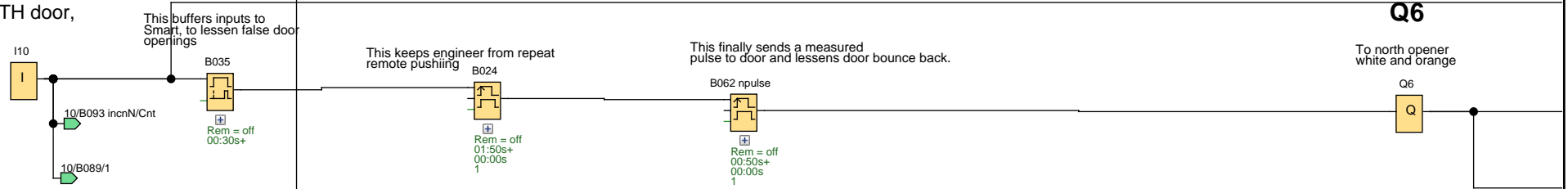
I9- SMART RELAY display screen light



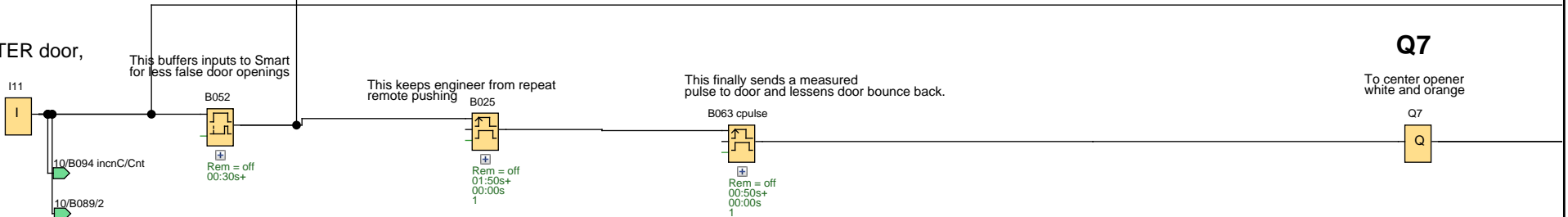
Creator:	John Ledbetter	DFD Lineshop	Project:	Sta 17 door project	Customer:	Denver Fire Department
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Sta 17 Door Receiver pulse section, with on delay buffers added 5-15-20

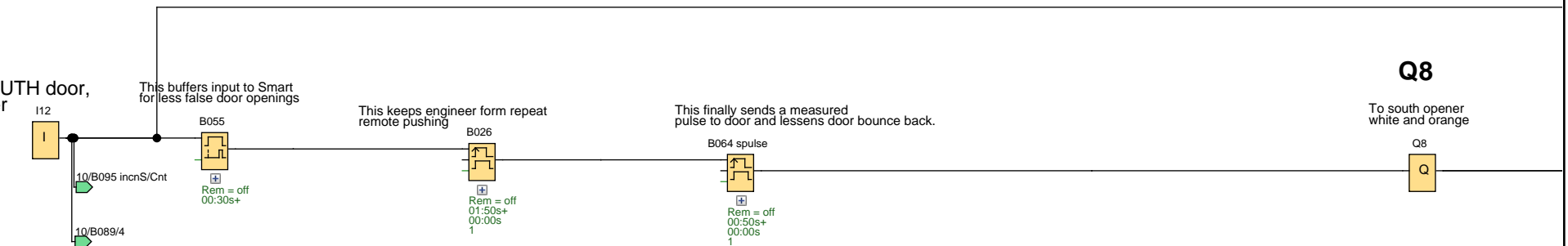
I10-NORTH door, receiver



I11-CENTER door, receiver



I12-SOUTH door, receiver

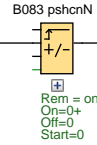


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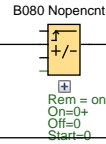
Sta 17

Counting sections

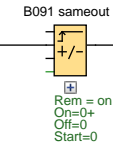
pshcnN



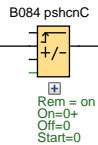
Nopencnt



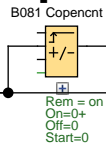
sameout



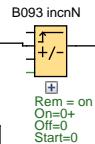
pshcnC



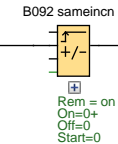
Copencnt



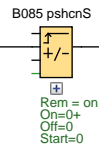
incnN



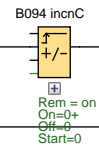
sameincn



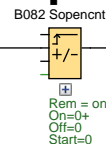
pshcnS



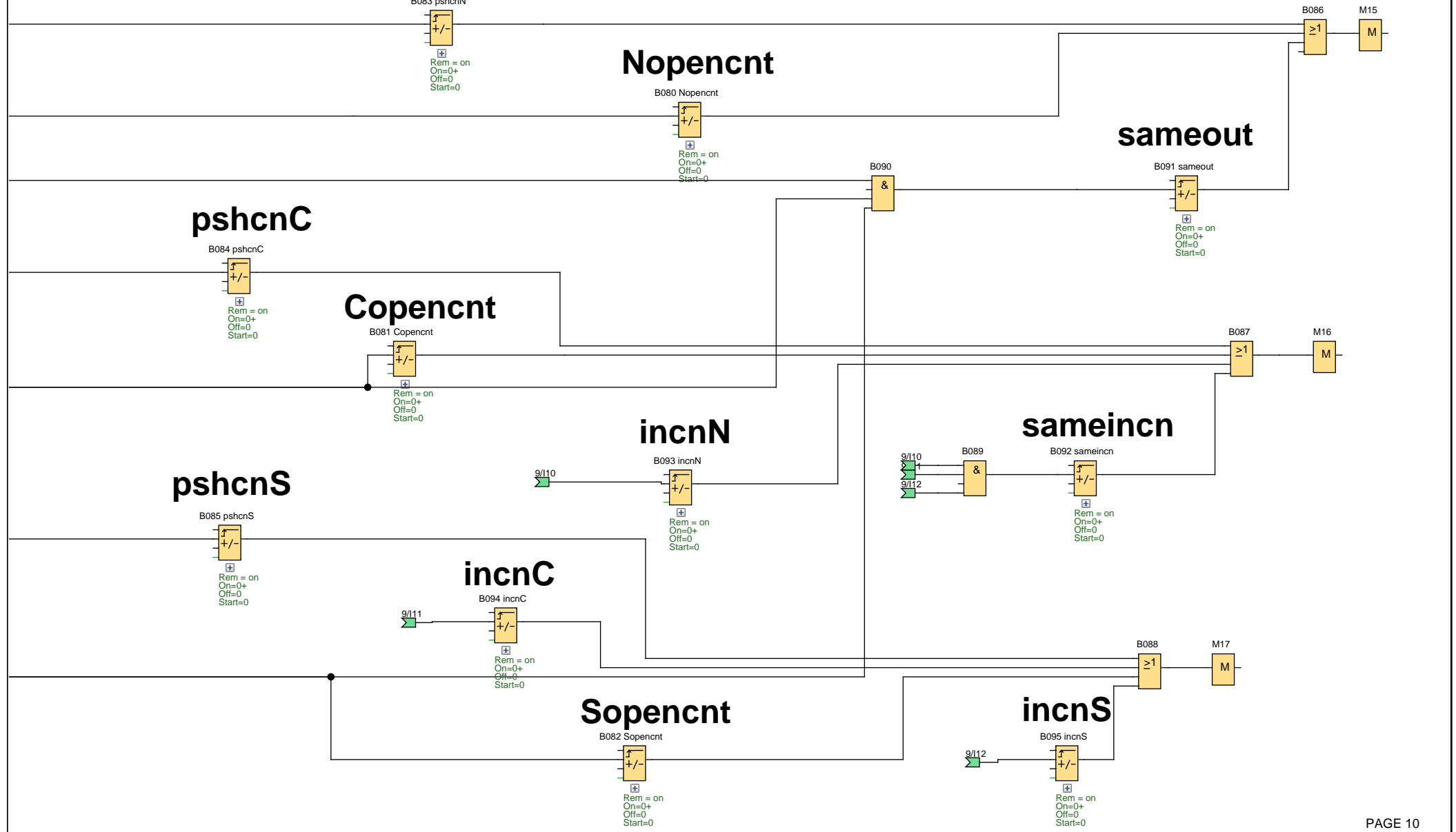
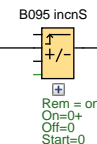
incnC



Sopencnt



incnS



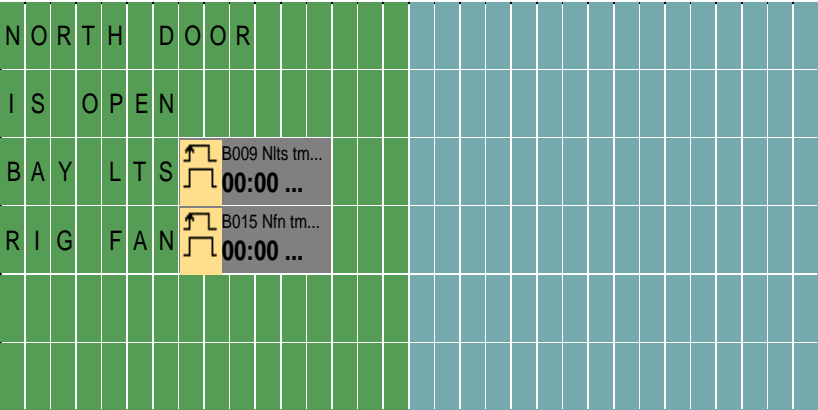
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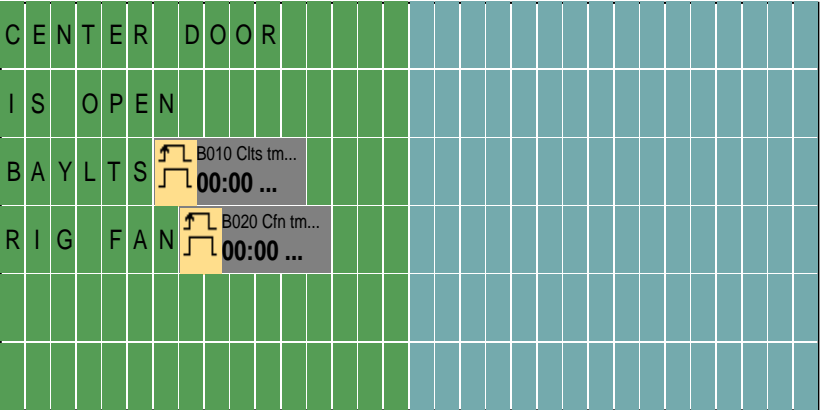
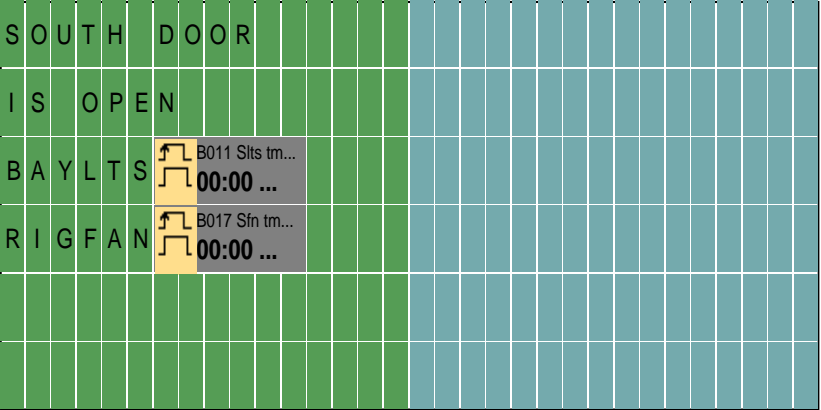
Block Number (Type)	Parameter
B001 buffer(On-delay) :	Rem = off 01:00s+
B002 buffer(On-delay) :	Rem = off 01:00s+
B003 buffer(On-delay) :	Rem = off 01:00s+
B009 Nlts tmr(Edge-triggered interval time-delay relay) :	Rem = off 03:00m+ 00:00s 1
B010 Clts tmr(Edge-triggered interval time-delay relay) :	Rem = off 03:00m+ 00:00s 1
B011 Slts tmr(Edge-triggered interval time-delay relay) :	Rem = off 03:00m+ 00:00s 1
B012 lt pulse(Asynchronous pulse generator) :	Rem = off 05:00s+ 01:00s
B015 Nfn tmr(Edge-triggered interval time-delay relay) : NORTH DOOR RIG EXHAUST FAN TIMER	Rem = off 00:00m+ 00:00s 1
B016 sw tmr (Off-delay) :	Rem = off 15:00m+
B017 Sfn tmr(Edge-triggered interval time-delay relay) : SOUTH DOOR RIG EXHAUST FAN TIMER	Rem = off 00:00m+ 00:00s 1
B020 Cfn tmr(Edge-triggered interval time-delay relay) : CENTER DOOR RIG EXHAUST FAN TIMER	Rem = off 02:00m+ 00:00s 1
B021(On-delay) :	Rem = off 15:00s+
B024(Edge-triggered interval time-delay relay) : This keeps engineer from repeat remote pushing	Rem = off 01:50s+ 00:00s 1
B025(Edge-triggered interval time-delay relay) : This keeps engineer from repeat remote pushing	Rem = off 01:50s+ 00:00s 1
B026(Edge-triggered interval time-delay relay) : This keeps engineer form repeat remote pushing	Rem = off 01:50s+ 00:00s 1
B027(Edge-triggered interval time-delay relay) :	Rem = off 14:98s+ 00:00s 1
B029(Edge-triggered interval time-delay relay) : this device starts timer counting from zero with vocalarm	Rem = off 03:34m+ 00:00s 1
B031(Edge-triggered interval time-delay relay) : these devices send a pulse to stop the counting when door closes	Rem = off 00:10s+ 00:00s 1
B032(Edge-triggered interval time-delay relay) :	Rem = off 00:10s+ 00:00s 1

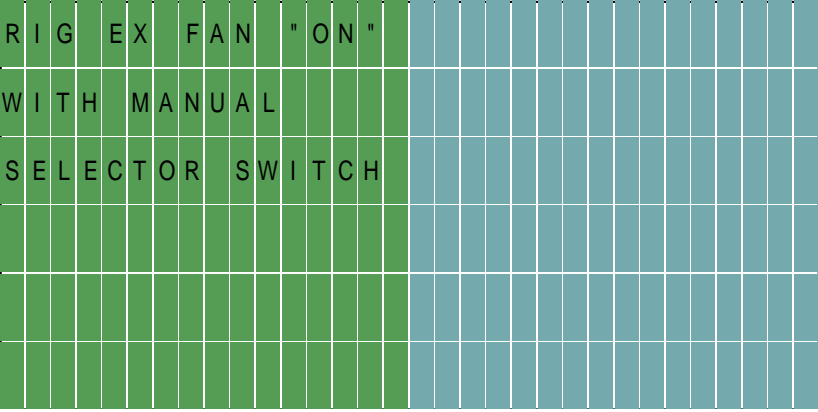
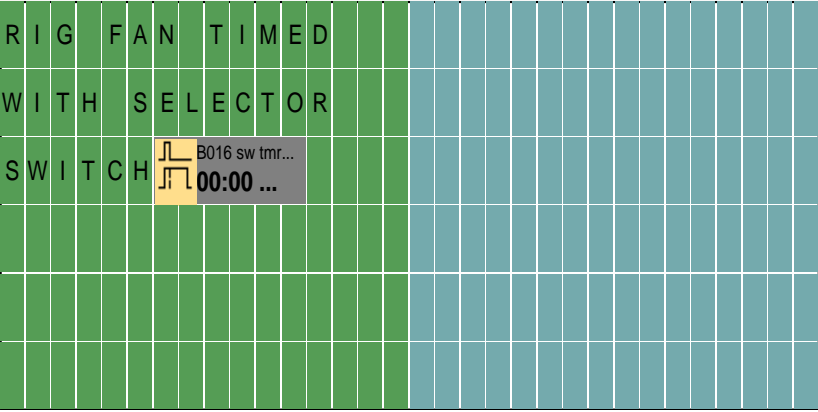
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Block Number (Type)	Parameter
B033(Edge-triggered interval time-delay relay) : this device sends a quick pulse to reset timer	Rem = off 00:10s+ 00:00s 1
B035(On-delay) : This buffers inputs to Smart, to lessen false door openings	Rem = off 00:30s+
B037(Asynchronous pulse generator) :	Rem = off 03:00s+ 01:00s
B038 bckupnlt(Edge-triggered interval time-delay relay) :	Rem = off 00:00m+ 00:00s 1
B039(On-delay) :	Rem = off 15:00s+
B040(Edge-triggered interval time-delay relay) :	Rem = off 00:00s+ 00:00s 1
B041(Asynchronous pulse generator) :	Rem = off 03:00s+ 01:00s
B042(On-delay) :	Rem = off 00:50s+
B043(On-delay) :	Rem = off 07:00s+
B044 bckupclt(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B045(On-delay) :	Rem = off 07:00s+
B046 bckupSlT(Edge-triggered interval time-delay relay) :	Rem = off 00:00m+ 00:00s 1
B047(On-delay) :	Rem = off 15:00s+
B048(Edge-triggered interval time-delay relay) :	Rem = off 00:00s+ 00:00s 1
B049(Asynchronous pulse generator) :	Rem = off 03:00s+ 01:00s
B051(On-delay) :	Rem = off 07:00s+
B052(On-delay) : This buffers inputs to Smart for less false door openings	Rem = off 00:30s+
B054 ndr cnt(Up/Down counter) : North door count	Rem = on On=0+ Off=0 Start=0
B055(On-delay) : This buffers input to Smart for less false door openings	Rem = off 00:30s+
B056 cdr cnt(Up/Down counter) : Center door count	Rem = on On=0+ Off=0 Start=0

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Block Number (Type)	Parameter
B058(Asynchronous pulse generator) :	Rem = off 00:50s+ 00:50s
B059(Edge-triggered interval time-delay relay) :	Rem = off 04:00s+ 00:00s 1
B060(On-delay) :	Rem = off 04:00s+
B061(Edge-triggered interval time-delay relay) :	Rem = off 20:00s+ 00:00s 1
B062 npulse(Edge-triggered interval time-delay relay) : This finally sends a measured pulse to door and lessens door bounce back.	Rem = off 00:50s+ 00:00s 1
B063 cpulse(Edge-triggered interval time-delay relay) :	Rem = off 00:50s+ 00:00s 1
B064 spulse(Edge-triggered interval time-delay relay) :	Rem = off 00:50s+ 00:00s 1
B065 sdr cnt(Up/Down counter) : South door count	Rem = on On=0+ Off=0 Start=0
B066 Ndr msg(Message texts) :  Line3.8 B009 Nlts tmr-THRest Line4.8 B015 Nfn tmr-THRest	Prio = 0 Quit = off Text1: enabled Text2: disabled Ticker setting - CBC - Line1: N - Line2: Z - Line3: Z - Line4: Z - Line5: Z - Line6: Z Message Destination - Both

Block Number (Type)	Parameter																		
<p>B067 Cdr msg(Message texts) :</p>  <p>Line3.7 B010 Clts tmr-THRest Line4.8 B020 Cfn tmr-THRest</p>	<p>Prio = 1 Quit = off Text1: enabled Text2: disabled</p> <p>Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line5: N - Line6: N Message Destination - Both</p>																		
<p>B068 Sdr msg(Message texts) :</p>  <p>Line3.7 B011 Slts tmr-THRest Line4.7 B017 Sfn tmr-THRest</p>	<p>Prio = 2 Quit = off Text1: enabled Text2: disabled</p> <p>Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line5: N - Line6: N Message Destination - Both</p>																		
<p>B069(Edge-triggered interval time-delay relay) :</p>	<p>Rem = off 02:00m+ 00:00s 1</p>																		
<p>B070(Edge-triggered interval time-delay relay) :</p>	<p>Rem = off 02:00m+ 00:00s 1</p>																		
<p>B071(Edge-triggered interval time-delay relay) :</p>	<p>Rem = off 02:00m+ 00:00s 1</p>																		
<p>B072 exfancnt(Up/Down counter) : Rig fan "ON" count</p>	<p>Rem = on On=0+ Off=0 Start=0</p>																		
<p>B073 exfanhrs(Operating hours counter) : Rig fan hours</p>	<p>MI= 0h 0m+ OT= 0h 0m Q->0=R+En</p>																		
<p>B074 fan sw on(Up/Down counter) : Fan sw "on" count</p>	<p>Rem = on On=0+ Off=0 Start=0</p>																		
<p>B075 fn tmrs w(Up/Down counter) : Fan timer switch counter</p>	<p>Rem = on On=0+ Off=0 Start=0</p>																		
<table border="1"> <tr> <td>Creator:</td> <td>John Ledbetter</td> <td rowspan="3">DFD Lineshop</td> <td>Project:</td> <td>Sta 17 door project</td> <td>Customer:</td> <td>Denver Fire Department</td> </tr> <tr> <td>Checked:</td> <td>4-1-22</td> <td>Installation:</td> <td>Sta 17 doors</td> <td>Diagram No.:</td> <td></td> </tr> <tr> <td>Date:</td> <td>9/12/16 9:56 AM/6/10/22 9:01 AM</td> <td>File:</td> <td>Sta 17 drs 4-1-22.lsc</td> <td>Page:</td> <td>16 / 22</td> </tr> </table>	Creator:	John Ledbetter	DFD Lineshop	Project:	Sta 17 door project	Customer:	Denver Fire Department	Checked:	4-1-22	Installation:	Sta 17 doors	Diagram No.:		Date:	9/12/16 9:56 AM/6/10/22 9:01 AM	File:	Sta 17 drs 4-1-22.lsc	Page:	16 / 22
Creator:	John Ledbetter	DFD Lineshop		Project:	Sta 17 door project	Customer:	Denver Fire Department												
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Block Number (Type)	Parameter					
B076(Edge-triggered interval time-delay relay) :	Rem = off 10:00s+ 00:00s 1					
B077(Edge-triggered interval time-delay relay) :	Rem = off 10:00s+ 00:00s 1					
B078(Message texts) : 	Prio = 3 Quit = off Text1: enabled Text2: disabled Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line5: N - Line6: N Message Destination - Both					
B079(Message texts) : 	Prio = 4 Quit = off Text1: enabled Text2: disabled Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line5: N - Line6: N Message Destination - Both					
B080 Nopencnt(Up/Down counter) : Nopencnt	Rem = on On=0+ Off=0 Start=0					
B081 Copencnt(Up/Down counter) : Copencnt	Rem = on On=0+ Off=0 Start=0					
B082 Sopencnt(Up/Down counter) : Sopencnt	Rem = on On=0+ Off=0 Start=0					
B083 pshcnN(Up/Down counter) : pshcnN	Rem = on On=0+ Off=0 Start=0					
B084 pshcnC(Up/Down counter) : pshcnC	Rem = on On=0+ Off=0 Start=0					
Creator:	John Ledbetter	DFD Lineshop	Project:	Sta 17 door project	Customer:	Denver Fire Department
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RIG EX FAN "ON"
WITH MANUAL
SELECTOR SWITCH

RIG FAN TIMED
WITH SELECTOR
SWITCH

B016 sw tmr...
00:00 ...

Line3.7 B016 sw tmr -TRest

Block Number (Type)	Parameter
B085 pshcnS(Up/Down counter) : pshcnS	Rem = on On=0+ Off=0 Start=0
B091 sameout(Up/Down counter) : sameout	Rem = on On=0+ Off=0 Start=0
B092 sameincn(Up/Down counter) : sameincn	Rem = on On=0+ Off=0 Start=0
B093 incnN(Up/Down counter) : incnN	Rem = on On=0+ Off=0 Start=0
B094 incnC(Up/Down counter) : incnC	Rem = on On=0+ Off=0 Start=0
B095 incnS(Up/Down counter) : incnS	Rem = on On=0+ Off=0 Start=0
B096(Seven-day time switch) :	+ MTWTFSS 06:00h 22:00h ----- -:- -:- ----- -:- -:- Pulse=N
B097(Edge-triggered interval time-delay relay) :	Rem = off 08:00h+ 00:00s 1
B100(On-delay) :	Rem = off 10:00m+
B101(Asynchronous pulse generator) :	Rem = off 00:40s+ 00:20s
B102 opendrswrng(Up/Down counter) : Open doors warning counter	Rem = on On=0+ Off=0 Start=0
B103(Asynchronous pulse generator) :	Rem = off 00:50s+ 15:00s
B104 yelpbcnt(Up/Down counter) : Yellow pushbutton counter	Rem = on On=0+ Off=0 Start=0
B105(Asynchronous pulse generator) :	Rem = off 10:00s+ 01:00s
B106(Edge-triggered interval time-delay relay) :	Rem = off 05:00m+ 00:00s 1
B108(Edge-triggered interval time-delay relay) :	Rem = off 30:00m+ 00:00s 1
B110(On-delay) :	Rem = off 01:00s+
B111(Asynchronous pulse generator) :	Rem = off 02:00s+ 30:00s

Block Number (Type)	Parameter
B112(Astronomical clock) :	Lot: W105°2'38"+ Lat: N39°46'43" TZ: -7 Sunrise offset: 20 Sunset offset: -20
I1(Input) : I1-NORTH DOOR	
I2(Input) : I2-CENTER DOOR	
I3(Input) : I3-SOUTH DOOR	
I4(Input) : I4 Ex fan selector sw "on"	
I5(Input) : I5 Ex fan selector sw timed	
I6(Input) : I6-VOCALARM	
I7(Input) : I7- Yellow pushbutton (normally open) alarm silence	
I8(Input) : I8-Borrowed limits from heat interlock setup	
I10(Input) : I10-NORTH door, receiver	
I11(Input) : I11-CENTER door, receiver	
I12(Input) : I12-SOUTH door, receiver	
Q1(Output) : Q1-APPARATUS BAY LIGHTS	
Q2(Output) : Q2-Rig ex fan	
Q3(Output) : Q3-Backup LED lights	
Q4(Output) : timer input start counting, needs held to keep counting	
Q5(Output) : timer reset to zero	
Q6(Output) : To north opener white and orange	
Q7(Output) : To center opener white and orange	
Q8(Output) : To south opener white and orange	
Q9(Output) : Q9-Yellow/orange LED = Pushbutton (doors open too long)	

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Block Number (Type)	Parameter
Q10(Output) : Q10-Buzzer at watch cab	
Q11(Output) : Q11-Sleeping area, red drop lights	
Q12(Output) : Q12- mini jingler = piggy back off rear doorbell	

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Connection	Label
I1	
I2	
I3	
I4	
I5	
I6	
I7	
I8	
I9	
I10	
I11	
I12	
M1	
M2	
M3	
M4	
M5	
M6	
M7	
M9	
M10	
M11	
M12	
M13	
M14	
M15	
M16	
M17	
M18	

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Connection	Label
M25	SmartRelay displays white backlight
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Q7	
Q8	
Q9	
Q10	
Q11	
Q12	