FINAL_LAB_STORAGE_STATION_V2 (Controller) 2021-04-30 6:23:22 PM D:\OneDrive - Conestoga College\ELEC2280\FINAL LAB\ 4 - STORAGE STATION\FINAL_LAB_STORAGE_STATION_V2.ACD

Show: All Tags Sort by: Name

Name	Alias For	Base Tag	Data Type	Value	Description	External Access	Style	Consta nt
⊞-BAND_01			FBD_BOOLE	{}		Read/Write	!	No
⊞-BAND_02			AN_AND FBD_BOOLE AN_AND	{}		Read/Write		No
⊞-BAND_03			FBD_BOOLE AN AND	{}		Read/Write		No
⊞-BAND_04			FBD_BOOLE AN_AND	{}		Read/Write		No
⊟-BIT			DINT	1		Read/Write	Decimal	No
BIT.0			BOOL	1	Station Ready Bit	Read/Write	Decimal	No
_BIT.1			BOOL	0	Start Station	Read/Write	Decimal	No
_BIT.2			BOOL	0	E-Stop Bit	Read/Write	Decimal	No
_BIT.3			BOOL	0	Reset Bit	Read/Write	Decimal	No
_BIT.4			BOOL	0	Color Hold Bit	Read/Write	Decimal	No
BIT.5			BOOL	0	Finished Retrieve Mode	Read/Write	Decimal	No
⊞-BNOT_01			FBD_BOOLE AN_NOT	{}		Read/Write		No
⊞-BNOT_02			FBD_BOOLE AN_NOT	{}		Read/Write		No
⊞-BOR_01			FBD_BOOLE AN_OR	{}		Read/Write		No
<u>+</u> -BOR_02			FBD_BOOLE AN_OR	{}		Read/Write		No
H-BOR_03			FBD_BOOLE AN OR	{}		Read/Write		No
⊞-BOR_04			FBD_BOOLE AN OR	{}		Read/Write		No
⊞-BOR_05			FBD_BOOLE AN_OR	{}		Read/Write		No
⊟-CCI01			DINT	32770		Read/Write	Decimal	No
_CCI01.0			BOOL	0	Start pushbutton	Read/Write	Decimal	No
_CCI01.1			BOOL	1	Stop pushbutton (normally closed)	Read/Write	Decimal	No
_CCI01.2			BOOL	0	Store/Retrieve Swtich	Read/Write	Decimal	No
_CCI01.3			BOOL	0	Reset pushbutton	Read/Write	Decimal	No
CCI01.4			BOOL	0	Input I6 - Right Next Station Working	Read/Write	Decimal	No
E-CCO01			DINT	5		Read/Write	Decimal	No
_CCO01.0			BOOL	1	Indicator light Start on	Read/Write	Decimal	No
_CCO01.1			BOOL	0	Indicator light (Reset)	Read/Write	Decimal	No
_CCO01.2			BOOL	1	Ind Light (Q1)	Read/Write	Decimal	No
_CCO01.3			BOOL	0	Ind Light (Q2)	Read/Write	Decimal	No

FINAL_LAB_STORAGE_STATION_V2 - Program Tag Listing
FINAL_LAB_STORAGE_STATION_V2 (Controller)
D:\OneDrive - Conestoga College\ELEC2280\FINAL LAB\ 4 - STORAGE STATION\FINAL LAB_STORAGE_STATION_V2.ACD

Maii	ne	Alias For	Base Tag	Data Type	Value		Description	External Access	Style	Consta nt
-	_CCO01.4			BOOL			Output (Q4) - Station Working -		Decimal	No
	_CCO01.5			BOOL			Left Panel Output (Q5) - Left Panel	Read/Write	Decimal	No
-	_CCO01.6			BOOL		0	Output (Q6) - Left Panel	Read/Write	Decimal	No
	_CCO01.7			BOOL		0	Output (Q7) - Right Panel	Read/Write	Decimal	No
⊟ -O	NS			DINT		2		Read/Write	Decimal	No
-	ONS.1			BOOL		1	First Time Run Shot	Read/Write	Decimal	No
L	_ONS.2			BOOL		0	Retrieve Finished Shot	Read/Write	Decimal	No
<u>_</u> -S	I01			DINT	:	513		Read/Write	Decimal	No
-	_SI01.0			BOOL		1	Station Homed/ in Initial Position	Read/Write	Decimal	No
-	_SI01.1			BOOL		0	Error at the Station	Read/Write	Decimal	No
-	_SI01.2			BOOL		0	Station is Busy	Read/Write	Decimal	No
-	_SI01.3			BOOL		0	Storage area full / Input error	Read/Write	Decimal	No
-	_SI01.4			BOOL		0	Station processes work order	Read/Write	Decimal	No
-	_SI01.5			BOOL			Station ready to receive color/number code	Read/Write	Decimal	No
	_SI01.6			BOOL		0	Feedback storage / retrieval mode active (0 = storage, 1 = retrieval)	Read/Write	Decimal	No
-	_SI01.7			BOOL			Workpiece at beginning of conveyor	Read/Write	Decimal	No
-	_SI01.8			BOOL			Workpiece at middle of conveyor	Read/Write	Decimal	No
-	_SI01.9			BOOL		1	No workpiece at end of conveyor	Read/Write	Decimal	No
-	_SI01.10			BOOL		0	Workpiece detected - Black	Read/Write	Decimal	No
-	_SI01.11			BOOL		0	Workpiece not black - Red	Read/Write	Decimal	No
L	_SI01.12			BOOL		0	Workpiece metallic - Silver	Read/Write	Decimal	No
_S	O01			DINT	2	256		Read/Write	Decimal	No
-	_SO01.0			BOOL		0	Home the station	Read/Write	Decimal	No
-	_SO01.1			BOOL		0	Reset error	Read/Write	Decimal	No
-	_SO01.2			BOOL			Mode 0 = place in storage, Mode 1 = remove from storage	Read/Write	Decimal	No
-	_SO01.3			BOOL		0	Color/number code, bit 0 - Red	Read/Write	Decimal	No
-	_SO01.4			BOOL		0	Color/number code, bit 1 - Black	Read/Write	Decimal	No
-	_SO01.5			BOOL		0	Color/number code, bit 2 - Silver	Read/Write	Decimal	No
-	_SO01.6			BOOL		0	Strobe (accept color code)	Read/Write	Decimal	No

★-TONR_04

Read/Write

No

FINAL_LAB_STORAGE_STATION_V2 - Program Tag Listing

FINAL_LAB_STORAGE_STATION_V2 (Controller)

D:\OneDrive - Conestoga College\ELEC2280\FINAL LAB\ 4 - STORAGE STATION\FINAL LAB_STORAGE_STATION_V2.ACD

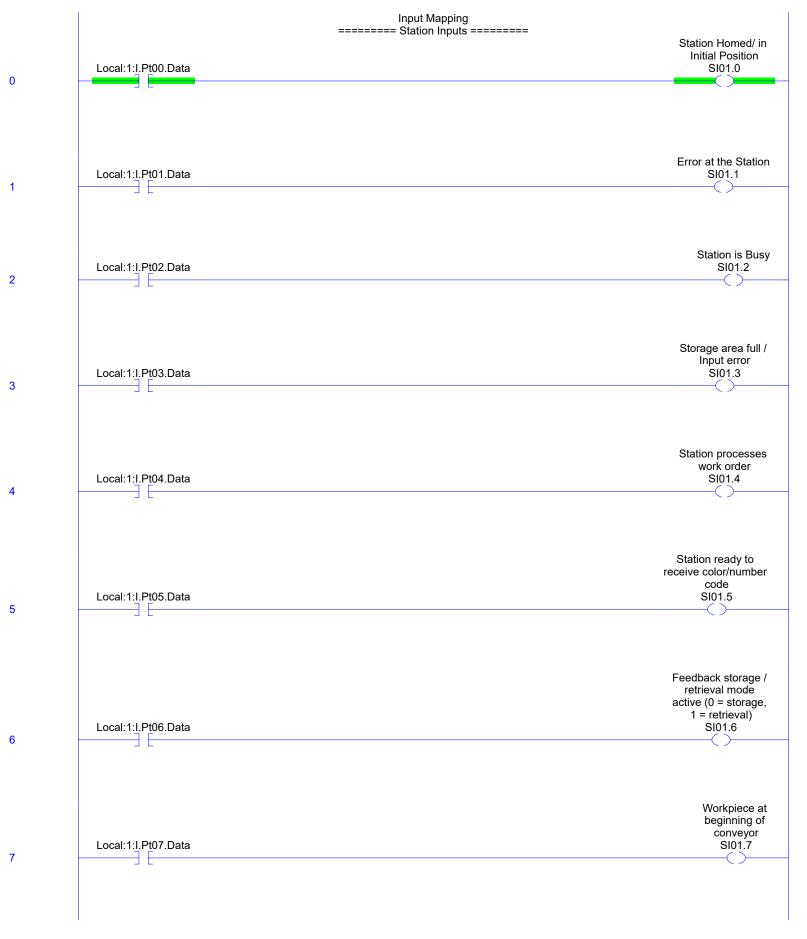
Name	Alias For	Base Tag	Data Type	Value	Description	External Access	Style	Consta nt
_SO01.7			BOOL	0	Enable automatic mode (EnAuto)	Read/Write	Decimal	No
_SO01.8			BOOL	1	Conveyor belt forward	Read/Write	Decimal	No
LSO01.9			BOOL	0	Conveyor belt in reverse	Read/Write	Decimal	No
 -TIMER_BLACK			TIMER	{}		Read/Write		No
+-TIMER_CAP			TIMER	{}	Timer to Release Cap	Read/Write		No
∓ -TIMER_RED			TIMER	{}		Read/Write		No
∓ -TIMER_SILVER			TIMER	{}		Read/Write		No
∓ -TONR_01			FBD_TIMER	{}	Timer Flash On	Read/Write		No
∓ -TONR_02			FBD_TIMER	{}	Timer Flash Off	Read/Write		No
± -TONR_03			FBD_TIMER	{}		Read/Write		No

{...}

FBD_TIMER

FINAL_LAB_STORAGE_STATION_V2:MainTask:MainProgram Total number of rungs in routine: 18

otal number of rungs in routine: 18 ...- STORAGE STATION\FINAL_LAB_STORAGE_STATION_V2.ACD



Input_Mapping - Ladder Diagram
FINAL_LAB_STORAGE_STATION_V2:MainTask:MainProgram Page 3 2021-04-30 6:27:30 PM Total number of rungs in routine: 18 ...- STORAGE STATION\FINAL LAB STORAGE STATION V2.ACD Input I6 - Right
Next Station Working
CCI01.4 Local:2:I.Pt04.Data 17 (End)

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Color_Type - Function Block Diagram
FINAL_LAB_STORAGE_STATION_V2:MainTask:MainProgram
1 of 1 total sheets in routine D:\OneDi

D:\OneDrive - Conestoga College\ELEC2280\FINAL LAB\ 4 - STORAGE STATION\FINAL LAB STORAGE STATION V2.ACD

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АВ	С	D	E	F	G	Н	
Color/number code, bit 1 - Black SO01.4 Color/number code, bit 0 - Red BOR_02 BOR Boolean Or LINE COLOR C	<u>)</u>						
Color/number code, bit 2 - Silver SO01.5 0 Workpiece at middle of conveyor Sl01.8 0 Feedback storage / BNOT_02	BAND_03 BAND Boolean And out D In1 Out D In2 In3	BOR_03 BOR Boolean Or In1 Out D	Strobe (accept color code) © SO01.6				
retrieval mode active (0 = storage, 1 = retrieval) Si01.6	BAND_04 BAND Boolean And						
SO01.3 D Color/number code, bit 2 - Silver SO01.5 D Feedback storage / retrieval mode active (0 = storage, 1 = retrieval)	In1						4
							į
A B	С	D	E	F	G	Н	

CC Lights - Function Block Diagram

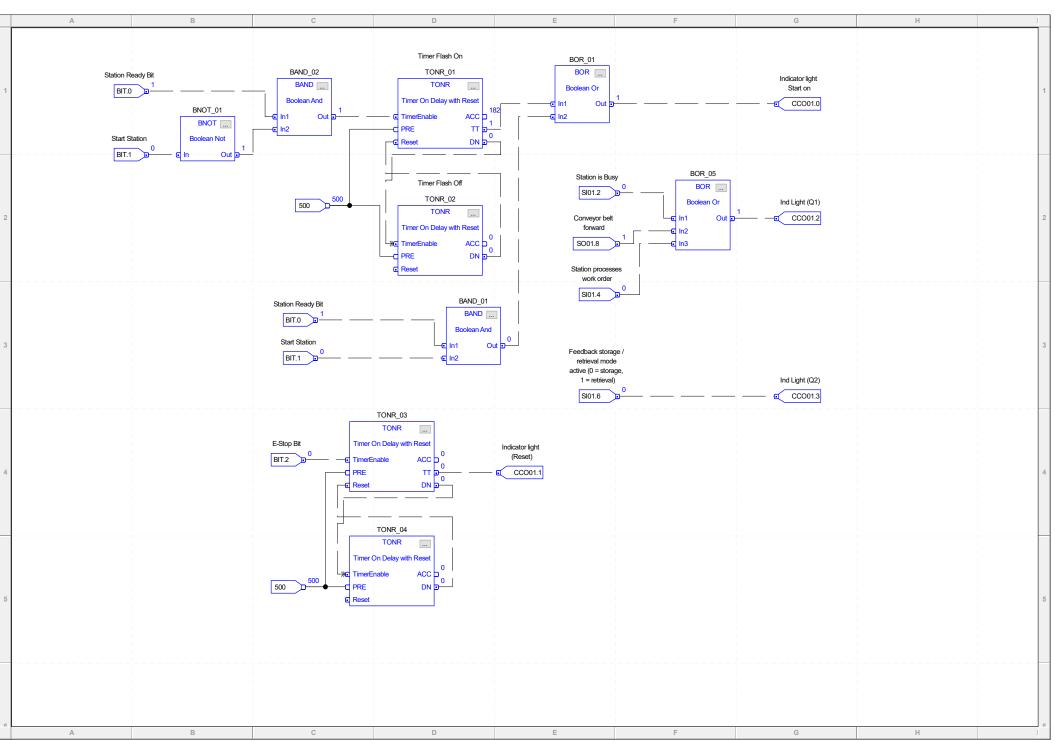
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FINAL_LAB_STORAGE_STATION_V2:MainTask:MainProgram
1 of 1 total sheets in routine

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MainRoutine - Ladder Diagram

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FINAL_LAB_STORAGE_STATION_V2:MainTask:MainProgram Total number of rungs in routine: 6

...- STORAGE STATION\FINAL_LAB_STORAGE_STATION_V2.ACD



Output_Mapping - Ladder Diagram

2021-04-30 6:27:41 PM

FINAL LAB STORAGE STATION V2:MainTask:MainProgram Total number of rungs in routine: 13

...- STORAGE STATION\FINAL LAB STORAGE STATION V2.ACD

Page 1

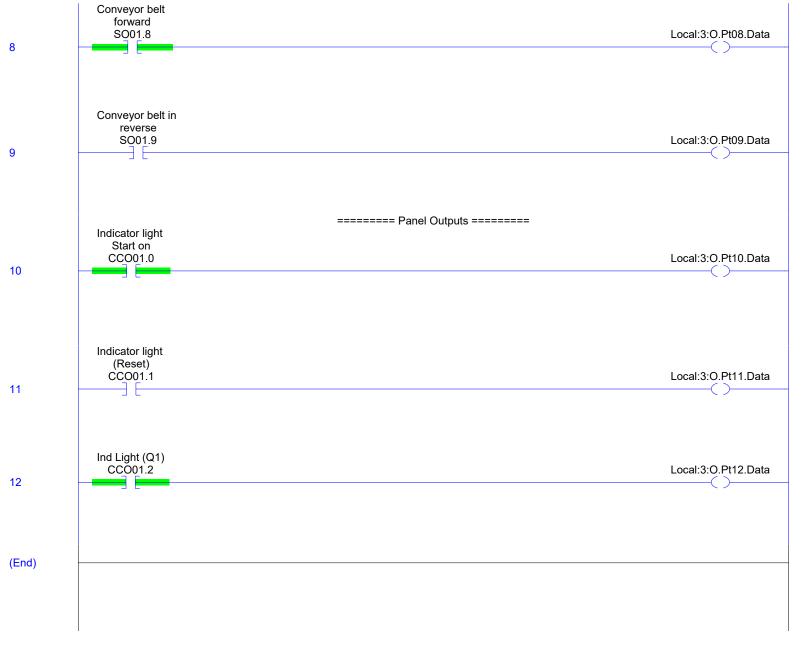


Output_Mapping - Ladder Diagram

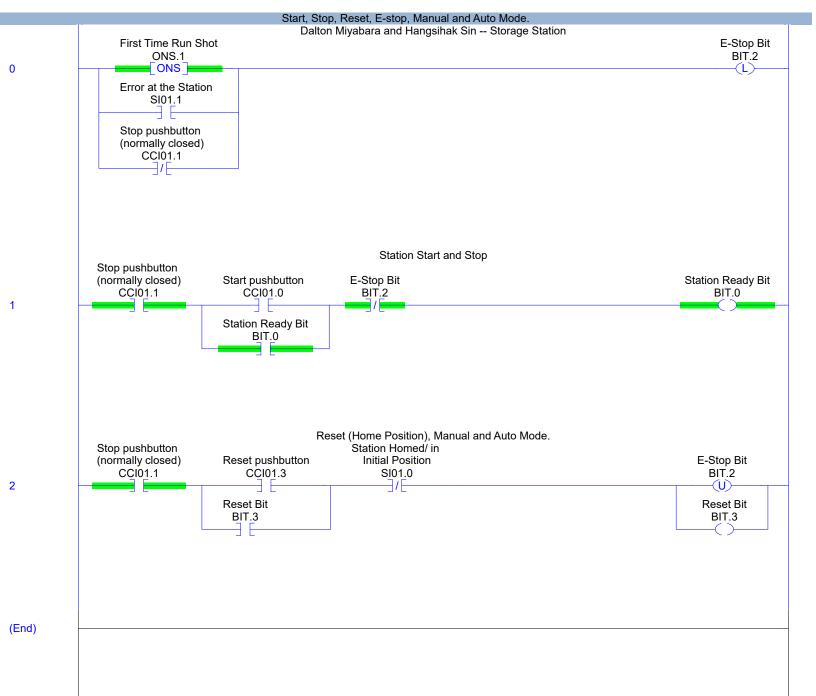
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FINAL LAB STORAGE STATION V2:MainTask:MainProgram Total number of rungs in routine: 13

...- STORAGE STATION\FINAL LAB STORAGE STATION V2.ACD



Total number of rungs in routine: 3



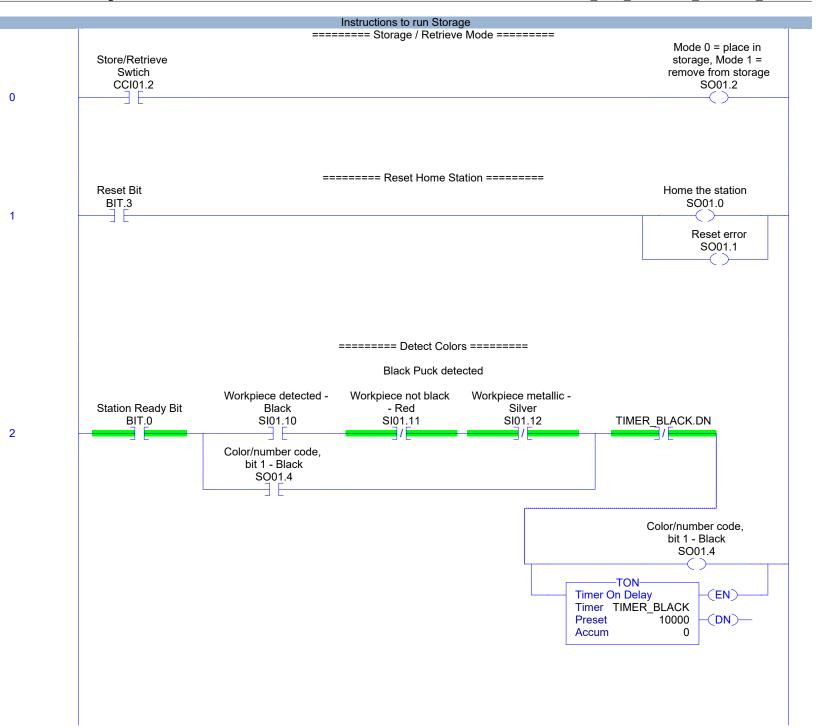
Storage_Ladder_Logic - Ladder Diagram
FINAL LAB STORAGE STATION V2:MainTask:MainProgram

2021-04-30 6:28:12 PM

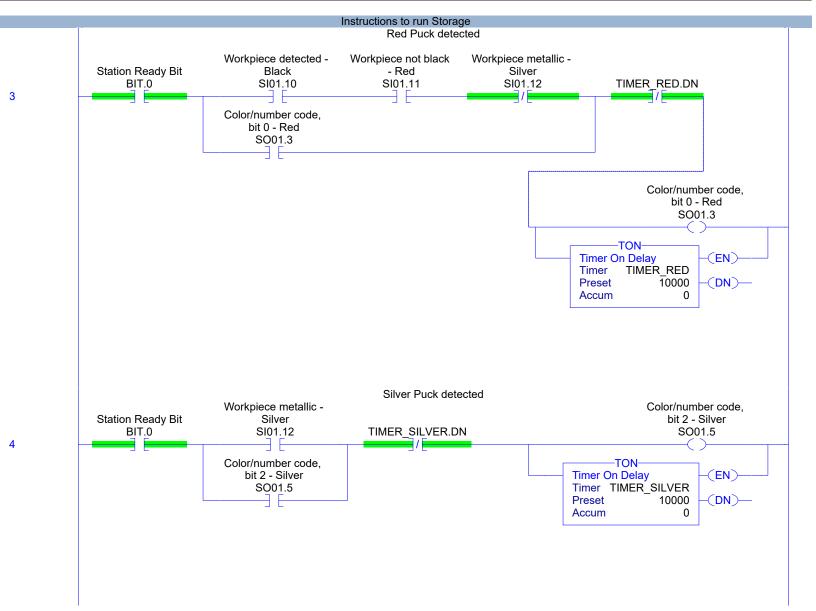
Page 1

Total number of rungs in routine: 8

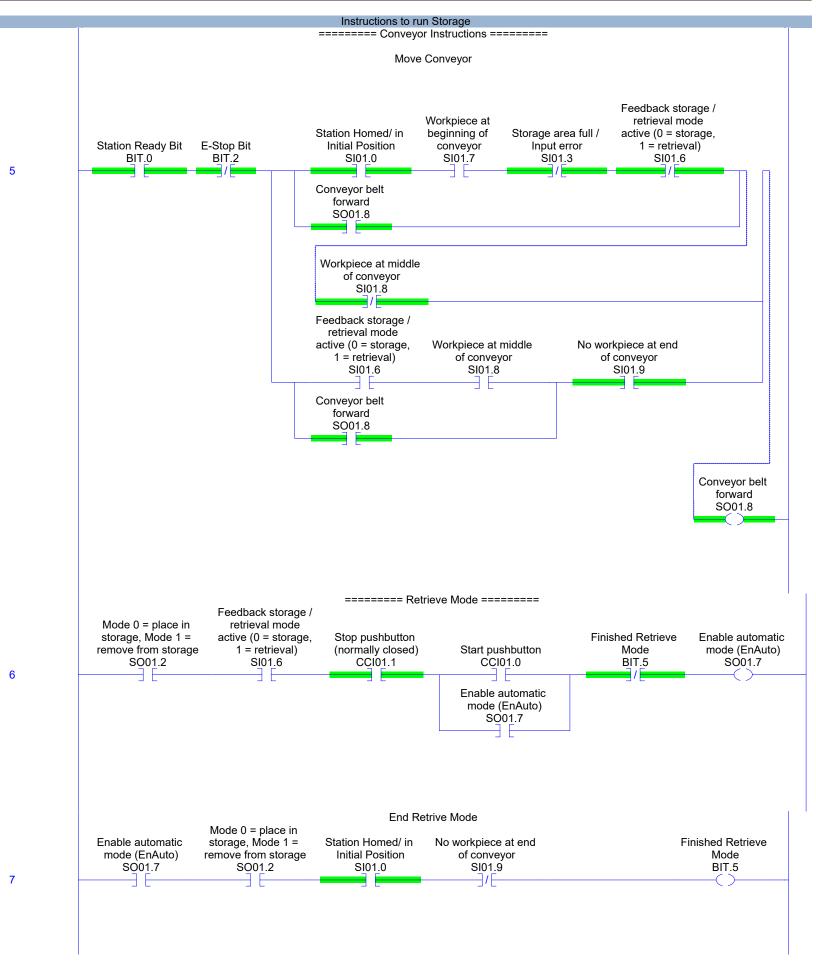
...- STORAGE STATION\FINAL LAB STORAGE STATION V2.ACD



...- STORAGE STATION\FINAL LAB STORAGE STATION V2.ACD



FINAL LAB STORAGE STATION V2:MainTask:MainProgram Total number of rungs in routine: 8



Storage_Ladder_Logic - Ladder Diagram
FINAL_LAB_STORAGE_STATION_V2:MainTask:MainProgram
Total number of rungs in routine: 8 **Page 4** 2021-04-30 6:28:12 PM

...- STORAGE STATION\FINAL LAB STORAGE STATION V2.ACD

Instructions to run Storage (End)