

INPUT PAGE 2 ASSIGNMENT PROGRAMMING DETAIL FOR ALTERNATE PHASING - LOOP 5A

(program controller as shown below)

NOTES: 1. THIS PROGRAMMING APPLIES FOR INPUT PAGE 2 ONLY. INPUT PAGE 1 WILL USE STANDARD
DEFAULT SETTINGS. THIS PROGRAMMING IS NECESSARY FOR PROPER DETECTOR OPERATION
DURING ALTERNATE PHASING OPERATION.

2. THE FIRST TASK THIS PROGRAMMING ACCOMPLISHES IS THE DISABLING OF INPUT #9 (DETECTOR 22) SO THAT A VEHICLE CALL WILL NOT BE PLACED TO PHASE 2 DURING ALTERNATE PHASING OPERATION. THE SECOND TASK THIS PROGRAMMING ACCOMPLISHES IS THAT IT REASSIGNS DETECTOR 55 TO INPUT #17 SO THAT THE DELAY ON LOOP 5A CAN BE REDUCED FROM 15 SECONDS TO 0 SECONDS.

FROM MAIN MENU PRESS '5' (INPUTS), THEN PRESS 'NEXT' TO GET TO INPUT PAGE '2'. PRESS THE '+' KEY UNTIL INPUT 9 IS REACHED.

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graph LR; B1[PAGE: 2 C1 PIN:47 VEHICLE DETECTOR  
INPUT ASSIGNMENT #.....9  
DEBOUNCE TIME (0-25.5 SEC).....0.5  
DELAY TIME (0-25.5 SEC).....0.0  
HOLD-OVER TIME (0-25.5 SEC).....0.0  
ASSIGNMENT SELECTION:  
NOT ENABLED (Y/N).....Y  
VEHICLE DETECTOR (1-64).....22  
PEDESTRIAN DETECTOR (1-16).....  
ALTERNATE PED DETECTOR (1-16).....  
PREEMPT (1-10).....  
INVERTED PREEMPT (1-10).....  
STOP TIME (Y/N).....  
FLASH SENSE (Y/N).....  
DOOR OPEN (Y/N).....  
MANUAL CONTROL ENABLE (Y/N).....  
MANUAL CONTROL ADVANCE (Y/N).....  
SPECIAL FUNCTION ALARM (1-8).....  
TOD HOUR SYNCHRONIZATION (0-23).....  
FORCE OFF RING (1-4).....  
HOLD PHASES (1-16).....  
PLAN (65=FLSH,66=FREE)..... OFFSET#...  
CHANGE PHASE SEQUENCE PAGE (1-12).....  
CHANGE PHASE TIMING PAGE (1-4).....  
CHANGE PHASE CONTROL PAGE (1-4).....  
CHANGE OVERLAP CONTROL PAGE (1-4).....  
CHANGE INPUT PAGE (1-4).....  
CHANGE OUTPUT PAGE (1-4).....  
OVERRIDE PHASE CONTROL FUNCTION (Y).....] --> B2[PAGE: 2 C1 PIN:47 NOT ENABLED  
INPUT ASSIGNMENT #.....9  
DEBOUNCE TIME (0-25.5 SEC).....0.5  
DELAY TIME (0-25.5 SEC).....0.0  
HOLD-OVER TIME (0-25.5 SEC).....0.0  
ASSIGNMENT SELECTION:  
NOT ENABLED (Y/N).....Y  
VEHICLE DETECTOR (1-64).....  
PEDESTRIAN DETECTOR (1-16).....  
ALTERNATE PED DETECTOR (1-16).....  
PREEMPT (1-10).....  
INVERTED PREEMPT (1-10).....  
STOP TIME (Y/N).....  
FLASH SENSE (Y/N).....  
DOOR OPEN (Y/N).....  
MANUAL CONTROL ENABLE (Y/N).....  
MANUAL CONTROL ADVANCE (Y/N).....  
SPECIAL FUNCTION ALARM (1-8).....  
TOD HOUR SYNCHRONIZATION (0-23).....  
FORCE OFF RING (1-4).....  
HOLD PHASES (1-16).....  
PLAN (65=FLSH,66=FREE)..... OFFSET#...  
CHANGE PHASE SEQUENCE PAGE (1-12).....  
CHANGE PHASE TIMING PAGE (1-4).....  
CHANGE PHASE CONTROL PAGE (1-4).....  
CHANGE OVERLAP CONTROL PAGE (1-4).....  
CHANGE INPUT PAGE (1-4).....  
CHANGE OUTPUT PAGE (1-4).....  
OVERRIDE PHASE CONTROL FUNCTION (Y).....]; B2 --> B3[PAGE: 2 C1 PIN:55 VEHICLE DETECTOR  
INPUT ASSIGNMENT #.....17  
DEBOUNCE TIME (0-25.5 SEC).....0.5  
DELAY TIME (0-25.5 SEC).....0.0  
HOLD-OVER TIME (0-25.5 SEC).....0.0  
ASSIGNMENT SELECTION:  
NOT ENABLED (Y/N).....  
VEHICLE DETECTOR (1-64).....5  
PEDESTRIAN DETECTOR (1-16).....  
ALTERNATE PED DETECTOR (1-16).....  
PREEMPT (1-10).....  
INVERTED PREEMPT (1-10).....  
STOP TIME (Y/N).....  
FLASH SENSE (Y/N).....  
DOOR OPEN (Y/N).....  
MANUAL CONTROL ENABLE (Y/N).....  
MANUAL CONTROL ADVANCE (Y/N).....  
SPECIAL FUNCTION ALARM (1-8).....  
TOD HOUR SYNCHRONIZATION (0-23).....  
FORCE OFF RING (1-4).....  
HOLD PHASES (1-16).....  
PLAN (65=FLSH,66=FREE)..... OFFSET#...  
CHANGE PHASE SEQUENCE PAGE (1-12).....  
CHANGE PHASE TIMING PAGE (1-4).....  
CHANGE PHASE CONTROL PAGE (1-4).....  
CHANGE OVERLAP CONTROL PAGE (1-4).....  
CHANGE INPUT PAGE (1-4).....  
CHANGE OUTPUT PAGE (1-4).....  
OVERRIDE PHASE CONTROL FUNCTION (Y).....]; B3 --> B4[PAGE: 2 C1 PIN:55 VEHICLE DETECTOR  
INPUT ASSIGNMENT #.....17  
DEBOUNCE TIME (0-25.5 SEC).....0.5  
DELAY TIME (0-25.5 SEC).....0.0  
HOLD-OVER TIME (0-25.5 SEC).....0.0  
ASSIGNMENT SELECTION:  
NOT ENABLED (Y/N).....55  
VEHICLE DETECTOR (1-64).....  
PEDESTRIAN DETECTOR (1-16).....  
ALTERNATE PED DETECTOR (1-16).....  
PREEMPT (1-10).....  
INVERTED PREEMPT (1-10).....  
STOP TIME (Y/N).....  
FLASH SENSE (Y/N).....  
DOOR OPEN (Y/N).....  
MANUAL CONTROL ENABLE (Y/N).....  
MANUAL CONTROL ADVANCE (Y/N).....  
SPECIAL FUNCTION ALARM (1-8).....  
TOD HOUR SYNCHRONIZATION (0-23).....  
FORCE OFF RING (1-4).....  
HOLD PHASES (1-16).....  
PLAN (65=FLSH,66=FREE)..... OFFSET#...  
CHANGE PHASE SEQUENCE PAGE (1-12).....  
CHANGE PHASE TIMING PAGE (1-4).....  
CHANGE PHASE CONTROL PAGE (1-4).....  
CHANGE OVERLAP CONTROL PAGE (1-4).....  
CHANGE INPUT PAGE (1-4).....  
CHANGE OUTPUT PAGE (1-4).....  
OVERRIDE PHASE CONTROL FUNCTION (Y).....]; B4 --> B5[PAGE: 2 C1 PIN:55 VEHICLE DETECTOR  
INPUT ASSIGNMENT #.....17  
DEBOUNCE TIME (0-25.5 SEC).....0.5  
DELAY TIME (0-25.5 SEC).....0.0  
HOLD-OVER TIME (0-25.5 SEC).....0.0  
ASSIGNMENT SELECTION:  
NOT ENABLED (Y/N).....  
VEHICLE DETECTOR (1-64).....55  
PEDESTRIAN DETECTOR (1-16).....  
ALTERNATE PED DETECTOR (1-16).....  
PREEMPT (1-10).....  
INVERTED PREEMPT (1-10).....  
STOP TIME (Y/N).....  
FLASH SENSE (Y/N).....  
DOOR OPEN (Y/N).....  
MANUAL CONTROL ENABLE (Y/N).....  
MANUAL CONTROL ADVANCE (Y/N).....  
SPECIAL FUNCTION ALARM (1-8).....  
TOD HOUR SYNCHRONIZATION (0-23).....  
FORCE OFF RING (1-4).....  
HOLD PHASES (1-16).....  
PLAN (65=FLSH,66=FREE)..... OFFSET#...  
CHANGE PHASE SEQUENCE PAGE (1-12).....  
CHANGE PHASE TIMING PAGE (1-4).....  
CHANGE PHASE CONTROL PAGE (1-4).....  
CHANGE OVERLAP CONTROL PAGE (1-4).....  
CHANGE INPUT PAGE (1-4).....  
CHANGE OUTPUT PAGE (1-4).....  
OVERRIDE PHASE CONTROL FUNCTION (Y).....];
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ENTER A 'Y' FOR NOT ENABLED

DEFAULT DETECTOR NUMBER WILL REMAIN UNTIL 'NOT ENABLED' IS ENTERED.

(LOOP 5A - PHASE 2)

PRESS '+' TO ADVANCE TO INPUT 17

ENTER '55' TO REASSIGN THE VEHICLE DETECTOR FOR THIS INPUT

(LOOP 5A - PHASE 5)

PROGRAMMING COMPLETE

SPECIAL DETECTOR PROGRAMMING DETAIL - LOOP 5A (ALT.)

(program controller as shown below)

FROM MAIN MENU PRESS '7' (DETECTORS), THEN PRESS '1' FOR VEHICLE DETECTORS. PRESS THE '-' KEY TO GET TO VEHICLE DETECTOR #55.

VEHICLE DETECTOR #55 SETTINGS (+,-,1-64) SETTING: (Y/N)	→ ENTER 'Y' FOR ENABLE DETECTOR →	VEHICLE DETECTOR #55 SETTINGS (+,-,1-64) SETTING: (Y/N)
ENABLE DETECTOR.....N		ENABLE DETECTOR.....N
ENABLE LOGGING.....N		ENABLE LOGGING.....N
ENABLE DIAGNOSTICS.....N		ENABLE DIAGNOSTICS.....N
SPEED TRAP.....N		SPEED TRAP.....N
CALL DETECTOR.....Y		CALL DETECTOR.....Y
EXTENSION DETECTOR.....Y		EXTENSION DETECTOR.....Y
MODE 2 STOP BAR.....N		MODE 2 STOP BAR.....N
SWITCHING DETECTOR.....N		SWITCHING DETECTOR.....N
DUPLICATING DETECTOR.....N		DUPLICATING DETECTOR.....N
ENABLE FULL TIME DELAY.....N		ENABLE FULL TIME DELAY.....N
IF FAILED, SET MIN RECALL?.....N		IF FAILED, SET MIN RECALL?.....N
IF FAILED, SET MAX1 RECALL?.....N		IF FAILED, SET MAX1 RECALL?.....N
IF FAILED, SET MAX2 RECALL?.....N		IF FAILED, SET MAX2 RECALL?.....N
PHASE# :1234567891011213141516		PHASE# :1234567891011213141516
PHASES ASSIGNED ;	ENTER '5' FOR PHASES ASSIGNED →	PHASES ASSIGNED ; X
SWITCH/DUPLICATE:		SWITCH/DUPLICATE:
LOOP SIZE (0-255 FT).....6		LOOP SIZE (0-255 FT).....6
SPEED TRAP DISTANCE (0-255 FT).....0		SPEED TRAP DISTANCE (0-255 FT).....0
STOP BAR TIME (0-255 SEC).....0		STOP BAR TIME (0-255 SEC).....0
STRETCH (0-25.5 SEC).....0.0		STRETCH (0-25.5 SEC).....0.0
DELAY (0-255 SEC).....0.0	ENSURE DELAY IS '0' →	DELAY (0-255 SEC).....0.0
MAX CALLS/MIN (0-255).....255		MAX CALLS/MIN (0-255).....255
MIN CALLS/DIAGNOSTIC PERIOD (0-255).....0		MIN CALLS/DIAGNOSTIC PERIOD (0-255).....0
MAX OCCUPANCY (0-100%).....100		MAX OCCUPANCY (0-100%).....100
EXTENSION DISABLE TIME (0-255 SEC).....0		EXTENSION DISABLE TIME (0-255 SEC).....0
QUEUE MAX OCCUPANCY TIME (0-255).....0		QUEUE MAX OCCUPANCY TIME (0-255).....0
QUEUE GAP RESET TIME (0-25.5).....0.0		QUEUE GAP RESET TIME (0-25.5).....0.0
PREEMPTION INDEX FOR QUEUE (0-10).....0		PREEMPTION INDEX FOR QUEUE (0-10).....0

NOTE: DETECTOR IS PROGRAMMED PER THE
INPUT FILE CONNECTION AND PROGRAMMING
CHART SHOWN ON SHEET 1.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-0822T
DESIGNED: May 2025
SEALED: 07/07/2025
REVISED: N/A

Temporary Design; (TMP 4-5, 10-11, 16, 19-20, 25-26, 31-32)
Electrical Detail - Sheet 4 of 6

Project #: 230907  DAVENPORT HOME OFFICE: 119 BROOKSTOWN AVENUE, SUITE PH1 WINSTON-SALEM, NC 27101 336.744.1636 www.davenportworld.com NCBELS FIRM LICENSE NO. C-2522	 750 N. Greenfield Pkwy, Garner, NC 27529	ELECTRICAL AND PROGRAMMING DETAILS FOR: NC 53 (Western Boulevard) at SR 2714 (Jacksonville Parkway) / Gateway North Division 3 Onslow County Jacksonville <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PLAN DATE: May 2025</td> <td style="width: 50%;">REVIEWED BY: L. Boyer</td> </tr> <tr> <td>PREPARED BY: J. Dollarhite</td> <td>RKA PROJ. NO.:</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">REVISIONS</th> <th style="width: 15%;">INIT.</th> <th style="width: 15%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	PLAN DATE: May 2025	REVIEWED BY: L. Boyer	PREPARED BY: J. Dollarhite	RKA PROJ. NO.:	REVISIONS	INIT.	DATE																														
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Signed by:

Lori M. Boyer

07/07/2025

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07/07/2025

INVENTORY NO.

03-0822T

DATE

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