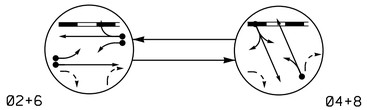
PROJECT REFERENCE NO.	SHEET NO.
B-5114	Sig. 2.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

RAIL PREEMPT PHASES

(High Priority)

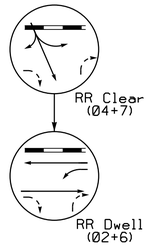


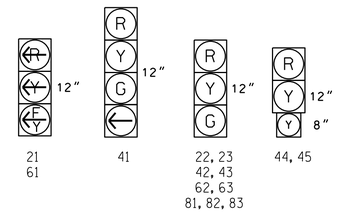
TABLE OF OPERATION

SIGNAL FACE	PHASE 02+6	PHASE 04+8	CLEARANCE	DWELL	FLASH
21	FY	R	R	R	Y
22, 23	G	R	R	G	Y
41	R	G	G	R	R
42, 43	R	G	G	R	R
44, 45	FY	FY	R	R	R
61	FY	R	R	FY	Y
62, 63	G	R	R	G	Y
81, 82, 83	R	G	R	R	R
SIGN A	OFF	OFF	ON	ON	*

FY = 8" Flashing Yellow
* SEE NOTE 5

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

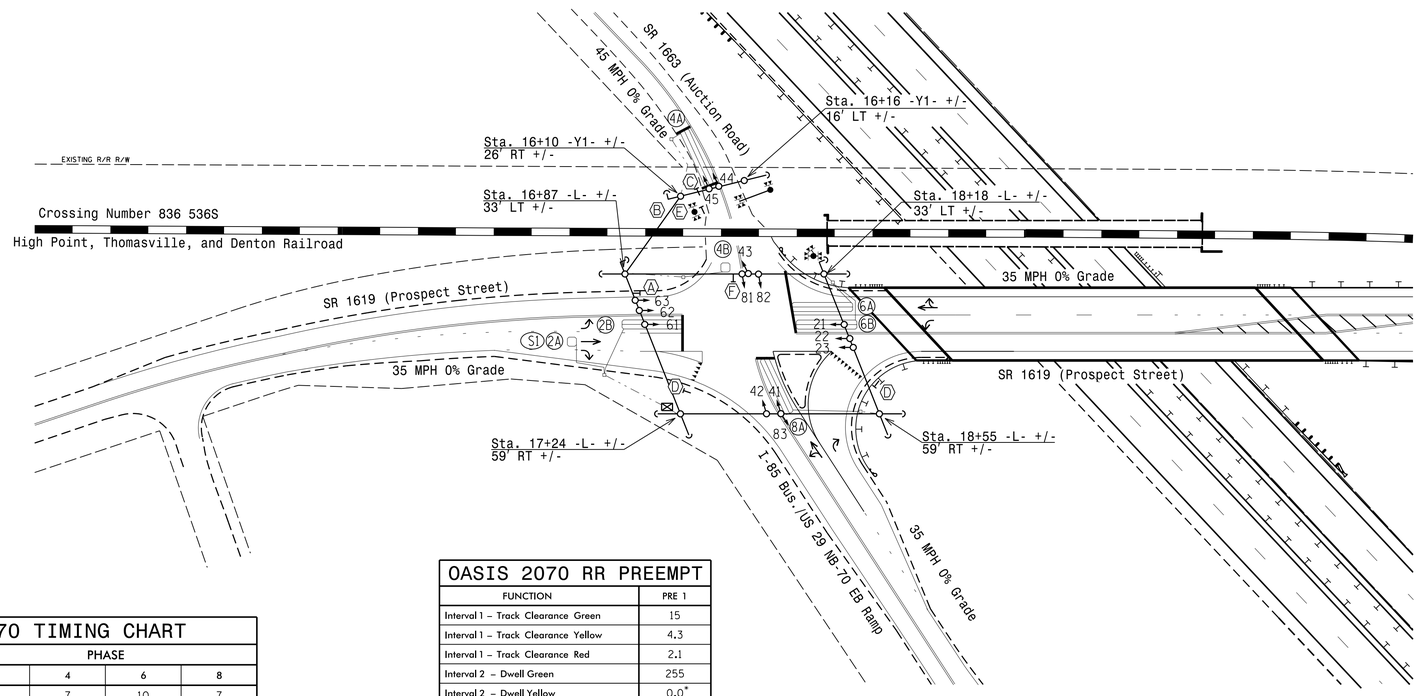
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A/S1	6X6	70	4	Y	2	Y	Y	-	-	-	Y	Y
2B	6X40	0	2-4-2	Y	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	Y
4B	6X6	+20*	4	Y	4	Y	Y	Y	-	5	-	Y
6A	6X40	0	2-4-2	Y	6	Y	Y	-	-	-	-	Y
6B	6X40	0	2-4-2	Y	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	3	-	Y

* From the nearest rail of railroad track

2 Phase
Fully Actuated
With Railroad Preemption
(Prospect St. CLS)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. This location contains railroad preemption phasing. Do not program signal for late night flashing operation.
3. Set all detector units to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Ensure flashing operation does not alter operation of blankout signs.
6. Clear signal heads 44, 45 from flashing 8" yellow to steady 12" yellow during interval 1 and steady red during interval 2.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. Closed loop system data: Controller Asset #: 0287.



OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green 1 *	10	7	10	7
Extension 1 *	3.0	2.0	2.0	2.0
Max Green 1 *	40	25	40	25
Yellow Clearance	4.0	4.3	4.0	3.7
Red Clearance	1.2	2.1	1.2	1.1
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	-	-
Dual Entry	-	ON	-	ON
Simultaneous Gap	ON	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

OASIS 2070 RR PREEMPT

FUNCTION	PRE 1
Interval 1 – Track Clearance Green	15
Interval 1 – Track Clearance Yellow	4.3
Interval 1 – Track Clearance Red	2.1
Interval 2 – Dwell Green	255
Interval 2 – Dwell Yellow	0.0*
Interval 2 – Dwell Red	0.0*
Interval 5 – Exit Green	1
Interval 5 – Yellow	0.0
Interval 5 – Red	0.0
Exit Phase(s)	4+8
Priority	High
Delay Time	0
Min Green Before Pre	1
Ped Clear Before Pre	0
Yellow Clear Before Pre	0.0*
Red Clear Before Pre	0.0*
Dwell Min Time	10
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	B, C

* Time defaults to time used for phase during normal operation

This signal was designed for simultaneous preemption.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
N/A	Guardrail	
N/A	Railroad Tracks	
N/A	Railroad Cantilever	
N/A	Railroad Mast and Flasher	
A	"NO RIGHT TURN - TRAIN" L.E.D Blankout Sign	A
B	"DO NOT STOP ON TRACKS" Sign (R8-8)	B
C	"STOP HERE ON RED" Sign (R10-6)	C
D	"YIELD" Sign (R1-2)	D
E	"NO TURN ON RED" Sign (R10-11)	E
F	"ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN" Sign (W25-2)	F

New Installation

Prepared in the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1619 (Prospect Street)
at
I-85 Bus./US 29 NB-70 EB Ramp
and SR 1663 (Auction Road)

Division 8 Randolph County High Point

PLAN DATE: February 2015 REVIEWED BY:
PREPARED BY: I. O. Umozurike REVIEWED BY:

SCALE 0 50 1"=50'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZIEMBA
DocuSigned by: 2/19/2015
SIGNATURE DATE
SIG. INVENTORY NO. 08-0287

19-FEB-2015 11:59
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