RAIL PREEMPT PHASE (High Priority)

(Medium Priority)

* See Note 5

QUEUE PRE 2

QUEUE PREEMPT PHASE

DETECTOR PROGRAMMING Q1 # | 6X15 | * * | EXIST |

SIGNAL FACE I.D.

All Heads L.E.D.

R Y 12"

21,22

186 (W. MAIN STREET)

SR 1334 (DILLON ROAD)

LOOP

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART INDUCTIVE LOOPS **DISTANCE** SIZE FROM

Q2 # | 6X15 | * * | EXIST | **Locate loop so back of loop is at least 20 feet from RR Exit Gate

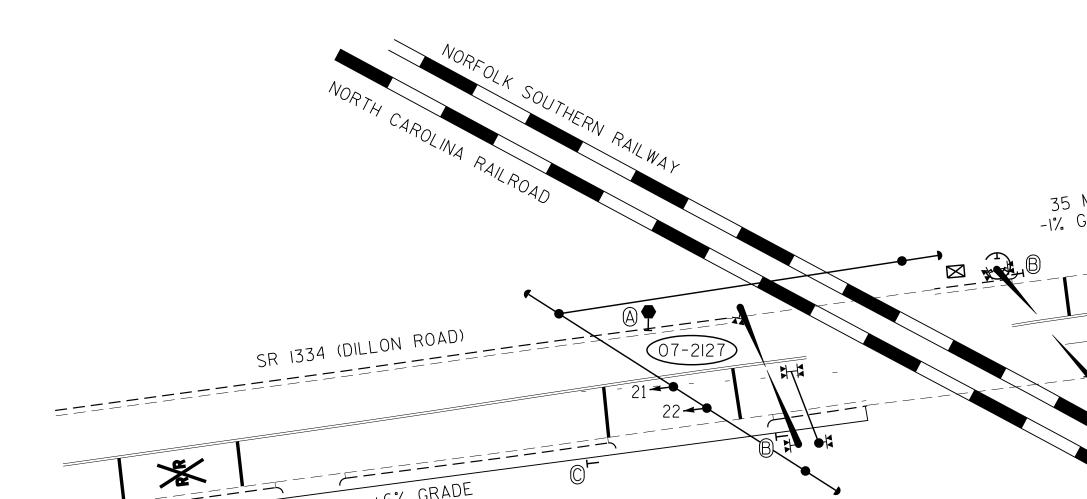
07-1268

* See Note 7

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) <--> PEC

SIGNALIZED MOVEMENT EDESTRIAN MOVEMENT	TABLE OF OPERATIO				١
DECITIAN MOVEMENT			PHA	SE	
	SIGNAL FACE	Ø 2	PRU 1	OP UR EU 2	
	21, 22	G	R	R	
	Sign A	OFF	ON	ON	



OASIS 2070				
TIMING CHART				
	PHASE			
FEATURE	2			
Min Green 1 *	5			
Extension 1 *	0.0			
Max Green 1 *	10			
Yellow Clearance	4.0			
Red Clearance	2.0			
Red Revert	0.0			
Walk 1 *	-			
Don't Walk 1	-			
Seconds Per Actuation *	-			
Max Variable Initial*	-			
Time Before Reduction *	-			
Time To Reduce *	-			
Minimum Gap	-			
Recall Mode	-			
Vehicle Call Memory	-			
Dual Entry	-			
Simultaneous Gap	ON			

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 lower than what is shown.

OASIS 2070 RR	PREEMPT
FUNCTION	PRE 1
Interval 1 – Track Clearance Green	0
Interval 1 – Track Clearance Yellow	0.0
Interval 1 – Track Clearance Red	0.0
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)	2
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	5
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	-

* Time defaults to time used for phase during normal operation

This signalis designed for Advanced Preemption

OASIS 2070 QUEU	JE PREEMPT
FUNCTION	PRE 2
Interval 1 – Dwell Green	255
Interval 1 – Dwell Yellow	0.0*
Interval 1 — Dwell Red	0.0*
Interval 5 – Exit Green	1
Interval 5 – Yellow	0.0
Interval 5 – Red	0.0
Exit Phase(s)	2
Priority	MED
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	1
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	-

* Time defaults to time used for phase during normal operation

Fully Actuated With Railroad Preemption

2 Phase

and Queue Preemption (High Point Signal System)

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 sign.
- 6. Blankout sign 🛦 to illuminate and remain "ON" during all yellow and red displays for signal heads 21 and 22.
- 7. These loops serve as queue backup detectors. After 5 seconds of constant actuation, the detector unit places a call to the controller to preempt normal operation to all red to prevent vehicle queuing on the railroad tracks.
- 8. Pavement markings are existing.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 10. Railroad Preemption shall have priority over Queue Preemption.
- 11. Queue Preempt to be disabled during phase 8 green at signal 07-1268.

LEGEND

PROPOS	<u>SED</u>	EXISTING
\bigcirc	► Traffic Signal Head	
O ->	 Modified Signal Head 	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
0	—) Signal Pole with Guy	•
	ر Signal Pole with Sidewalk Gu	y • • • • • • • • • • • • • • • • • • •
	Inductive Loop Detector	CIIII
\boxtimes	Controller & Cabinet	××
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way with Marker	
	→ Directional Arrow	\longrightarrow
\bigcirc	Type II Signal Pedestal	•
N/A	Curb Ramp	
N/A	Railroad Tracks	
N/A	Railroad Cantilever	X X ●
N/A	Railroad Gate and Flasher	***
$\langle \Delta \rangle$	"NO RIGHT TURN" L.E.D. Blankout Sign	A
B	"DO NOT STOP ON TRACKS" Sign (R	8-8) B
(C)	"STOP HERE ON RED" Sign (R10-	6) ©

