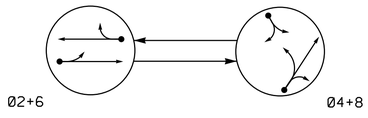
PROJECT REFERENCE NO.	SHEET NO.
I-3318 BB	Sig.2.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

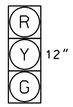
QUEUE PREEMPT PHASE

(Medium Priority)

TABLE OF OPERATION				
SIGNAL FACE	PHASE Ø2+6	PHASE Ø4+8	PHASE PRE 3	PHASE FLASH
21,22	G	R	R	Y
41,42	R	G	G	R
61,62	G	R	R	Y
81,82	R	G	R	R

SIGNAL FACE I.D.

All Heads L.E.D.



21,22
41,42
61,62
81,82

OASIS 2070 QUEUE PREEMPT	
FUNCTION	PRE 3
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)	2,6
Priority	MEDIUM
Delay Time	0.0
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	54
Enable Backup Protection	Y
Ped Clear Through Yellow	N
Omit Overlaps	-
Preempt Extend**	-

* Time defaults to time used for phase during normal operation

OASIS 2070 LOOP & DETECTOR INSTALLATION

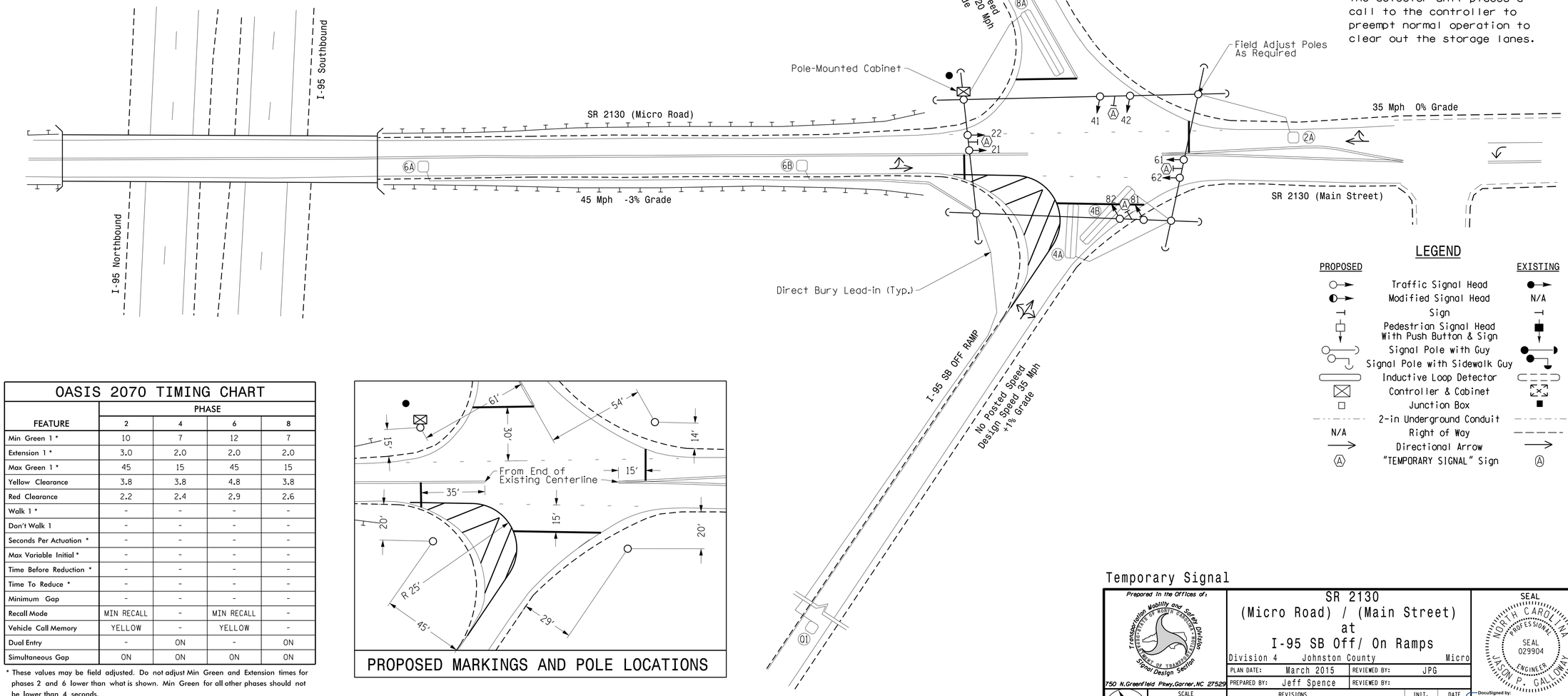
INDUCTIVE LOOPS					DETECTOR PROGRAMMING										
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	QUEUE MAX OCCUPANCY TIME	QUEUE GAP RESET TIME	PREEMPT INDEX FOR QUEUE	SYSTEM LOOP	NEW CARD
2A	6X6	4	70	Y	2	Y	Y	-	-	-	-	-	-	-	Y
01	6X6	6	500	Y	PRE 3	Y	Y	-	-	-	5	0.1	3	-	Y
4A	6X30	2-4-2	+5	Y	4	Y	Y	-	-	3	-	-	-	-	Y
4B	6X40	2-4-2	+5	Y	4	Y	Y	-	-	10	-	-	-	-	Y
6A	6X6	5	300	Y	6	Y	Y	-	1.6	-	-	-	-	-	Y
6B	6X6	4	90	Y	6	Y	Y	-	-	-	-	-	-	-	Y
8A	6X40	2-4-2	+5	Y	8	Y	Y	-	-	-	-	-	-	-	Y

*See Note #5

2 Phase
Fully Actuated w/ Queue Preempt
Temporary Signal

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
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. 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 clear out the storage lanes.



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	
(A)	"TEMPORARY SIGNAL" Sign	(A)

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green 1 *	10	7	12	7
Extension 1 *	3.0	2.0	2.0	2.0
Max Green 1 *	45	15	45	15
Yellow Clearance	3.8	3.8	4.8	3.8
Red Clearance	2.2	2.4	2.9	2.6
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	-	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.

PROPOSED MARKINGS AND POLE LOCATIONS

Temporary Signal

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

SR 2130
(Micro Road) / (Main Street)
at
I-95 SB Off/ On Ramps

Division 4 Johnston County Micro

PLAN DATE: March 2015 REVIEWED BY: JPG
PREPARED BY: Jeff Spence REVIEWED BY:

SCALE 0 30 1"=30'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 029904
JASON P. GALLOWAY

DocuSigned by: Jason Galloway 5/5/2015
ENGINEER SIGNATURE DATE

SIG. INVENTORY NO. 04-1375

05-MAY-2015 13:28
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jrspence