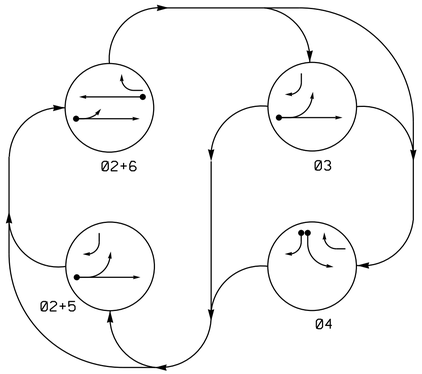
PROJECT REFERENCE NO.	SHEET NO.
R-2566 BA	Sig. 5.0

PHASING DIAGRAM



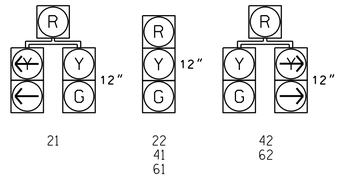
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION					
SIGNAL FACE	PHASE				
	Ø2+5	Ø2+6	Ø3	Ø4	FLASH
21	G→	G	G→	R	Y
22	G	G	G	R	Y
41	R	R	R	G	R
42	R→	R	R→	G	R
61	R	G	R	R	Y
62	R	G	R	R→	Y

SIGNAL FACE I.D.

All Heads L.E.D.



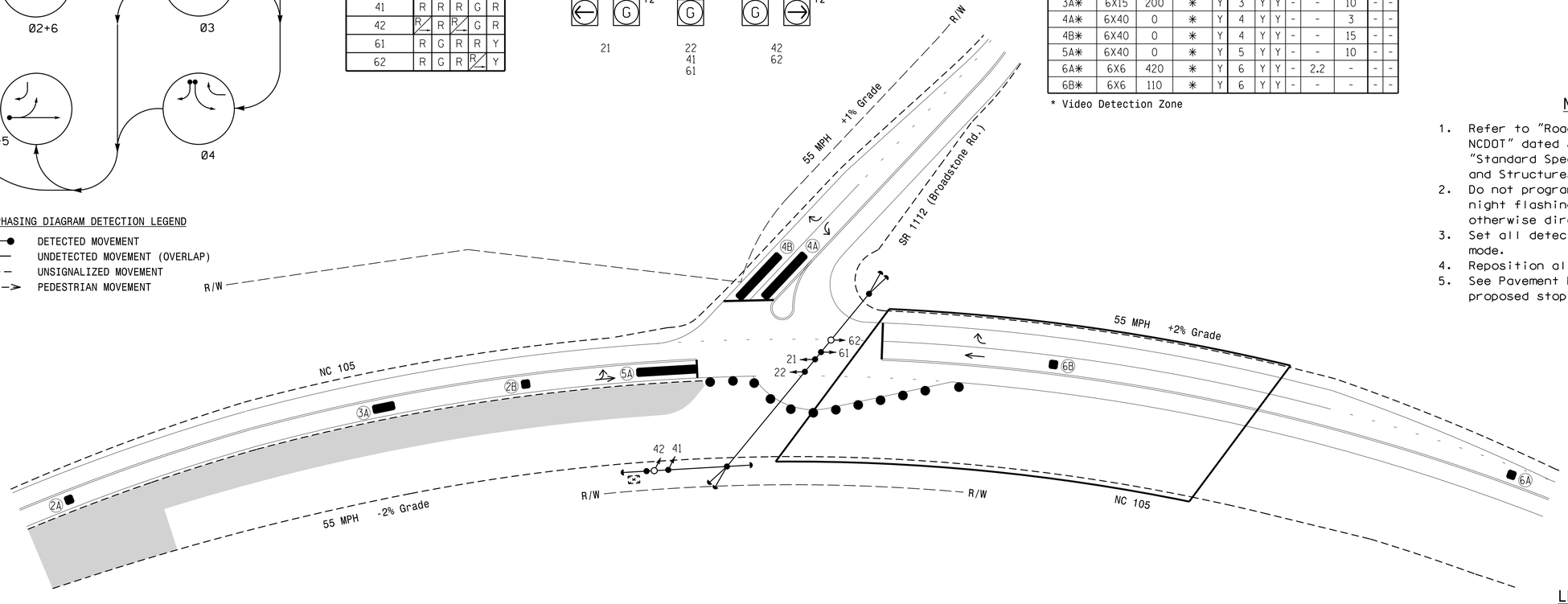
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A*	6X6	420	*	Y	2	Y	Y	-	2.2	-	-	-
2B*	6X6	110	*	Y	2	Y	Y	-	-	-	-	-
3A*	6X15	200	*	Y	3	Y	Y	-	-	10	-	-
4A*	6X40	0	*	Y	4	Y	Y	-	-	3	-	-
4B*	6X40	0	*	Y	4	Y	Y	-	-	15	-	-
5A*	6X40	0	*	Y	5	Y	Y	-	-	10	-	-
6A*	6X6	420	*	Y	6	Y	Y	-	2.2	-	-	-
6B*	6X6	110	*	Y	6	Y	Y	-	-	-	-	-

* Video Detection Zone

3 Phase
Fully Actuated
Isolated

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
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. Reposition all existing signal heads.
5. See Pavement Marking Plans for proposed stop bar locations.



OASIS 2070 TIMING CHART					
FEATURE	PHASE				
	2	3	4	5	6
Min Green 1 *	14	7	7	7	14
Extension 1 *	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	60	25	25	15	60
Yellow Clearance	5.4	5.4	3.0	3.0	5.4
Red Clearance	1.7	2.6	2.4	2.6	1.7
Red Revert	2.0	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	-	-	-	YELLOW
Dual Entry	-	-	-	-	-
Simultaneous Gap	ON	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.

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	
	Video Detection Zone	
	Construction Zone	N/A

Signal Upgrade - Temporary Design - Phase III

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

NC 105
at
SR 1112 (Broadstone Rd.)

Division 11 Watauga County Boone

PLAN DATE: April 2019 REVIEWED BY: T.J. Williams

PREPARED BY: R.N. Zinser REVIEWED BY:

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 043914 ENGINEER RICHARD N. ZINSER

DocuSigned by: R. N. Zinser F158007347224AF 5/16/2019 DATE

SIG. INVENTORY NO. 11-1054T4

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