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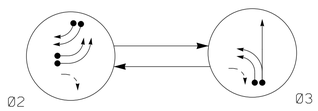
PROJECT REFERENCE NO.	SHEET NO.
U-4751	Sig. 3.2

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

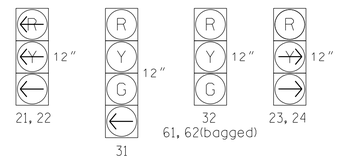
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2	PHASE Ø3	FLASH
21, 22	←	←R	←Y
23, 24	→	R	Y→
31	R	G ←	R
32	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



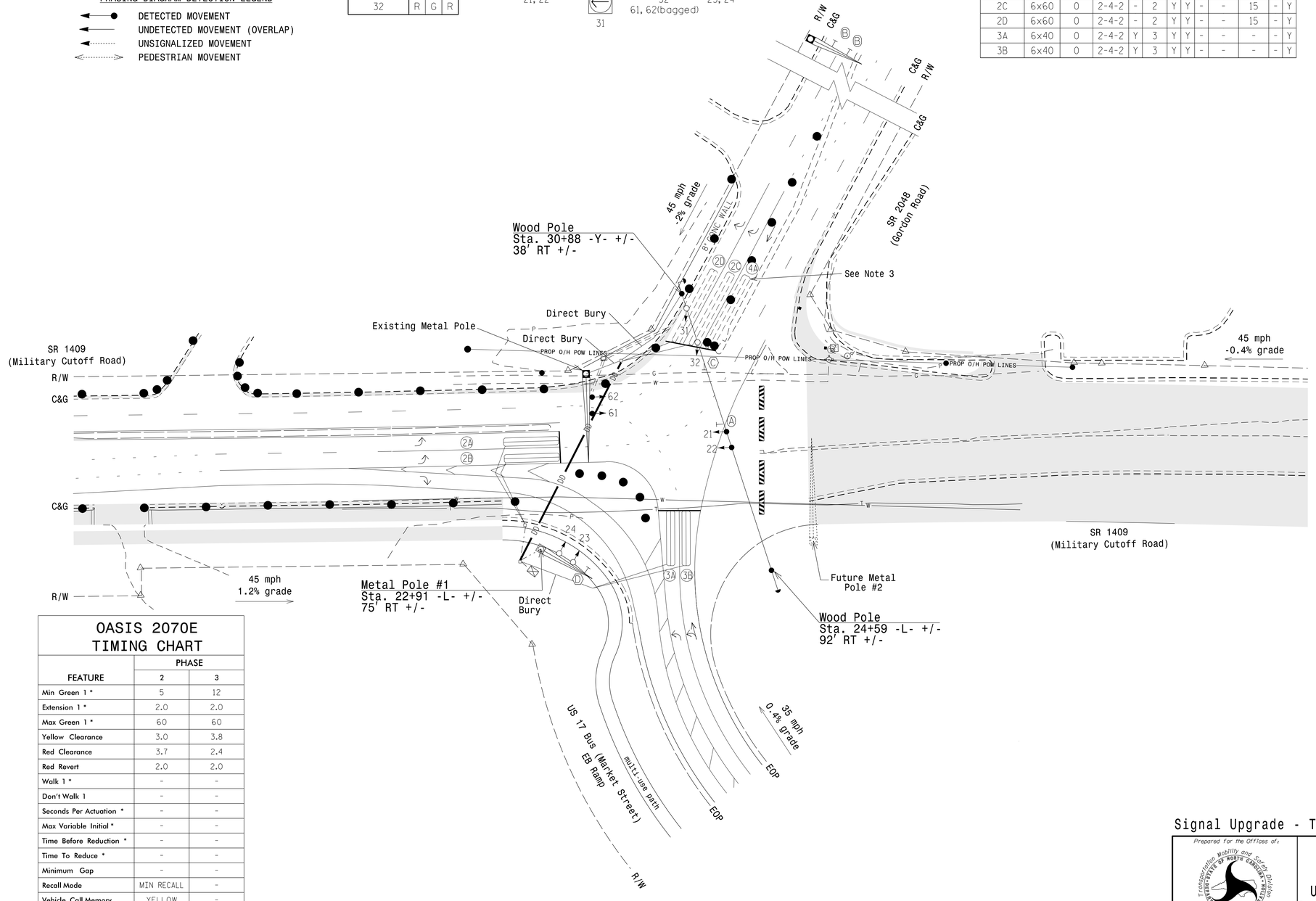
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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	6x40	0	2-4-2	Y	2	Y	Y	-	-	-	-	Y
2B	6x40	0	2-4-2	Y	2	Y	Y	-	-	-	-	Y
2C	6x60	0	2-4-2	-	2	Y	Y	-	-	15	-	Y
2D	6x60	0	2-4-2	-	2	Y	Y	-	-	15	-	Y
3A	6x40	0	2-4-2	Y	3	Y	Y	-	-	-	-	Y
3B	6x40	0	2-4-2	Y	3	Y	Y	-	-	-	-	Y

2 Phase
Fully Actuated
Wilmington Signal System

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. Abandon existing loops #2A/S1, 2B/S2, 4A, 6A/S5, 6B/S6, S3, and S4.
4. Disable and bag heads 61 and 62.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sign distance of vehicle turning right on red.
7. Maximum times shown in timing charts are for free-run operation only. Coordinated signal system timing values supersede these values.
8. Signal system data: Controller Asset #0884



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	
DD	Directional Drill	N/A
N/A	Right of Way	
N/A	UG Water Line	W
N/A	UG Gas Line	G
N/A	UG Power Line	P
N/A	UG Telephone Line	T
PROP O/H POW LINES	OH Power Line	N/A
	Drainage Pipe	
N/A	Easement Line	E
	Directional Arrow	
	Metal Pole with Mastarm	
	Construction Barricade	
	Construction Zone Drums	
	Construction Zone	
Ⓐ	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	Ⓐ
Ⓑ	Right Arrow "ONLY" Sign (R3-5R)	Ⓑ
Ⓒ	No Right Turn Sign (R3-1)	Ⓒ
Ⓓ	No Left Turn Sign (R3-2)	Ⓓ

OASIS 2070E TIMING CHART

FEATURE	PHASE 2	PHASE 3
Min Green 1 *	5	12
Extension 1 *	2.0	2.0
Max Green 1 *	60	60
Yellow Clearance	3.0	3.8
Red Clearance	3.7	2.4
Red Revert	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	-
Vehicle Call Memory	YELLOW	-
Dual Entry	-	-
Simultaneous Gap	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.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signal Upgrade - Temporary Design 2 (TMP Phase II)

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

SR 1409
(Military Cutoff Road) at
SR 2048 (Gordon Road)/
US 17 Bus (Market St) SB Ramp

Division 03 New Hanover County Wilmington

PLAN DATE:	April 2017	REVIEWED BY:	MB Toth
PREPARED BY:	LD Stouchko	REVIEWED BY:	

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 025892 ENGINEER MELISSA B. TOTH

DocuSigned by: Melissa B. Toth 6/6/2017
DIRECTOR'S SIGNATURE DATE

SIG. INVENTORY NO. 03-0884T2

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

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