

PHASING DIAGRAM

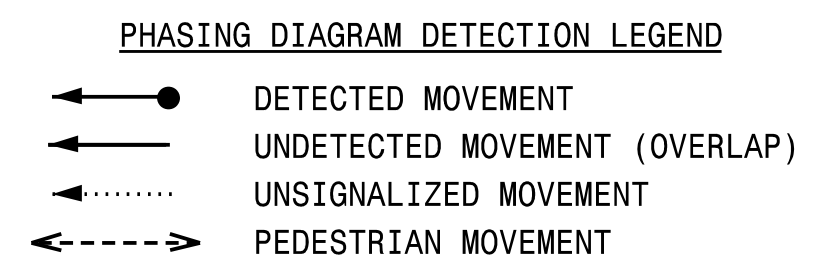
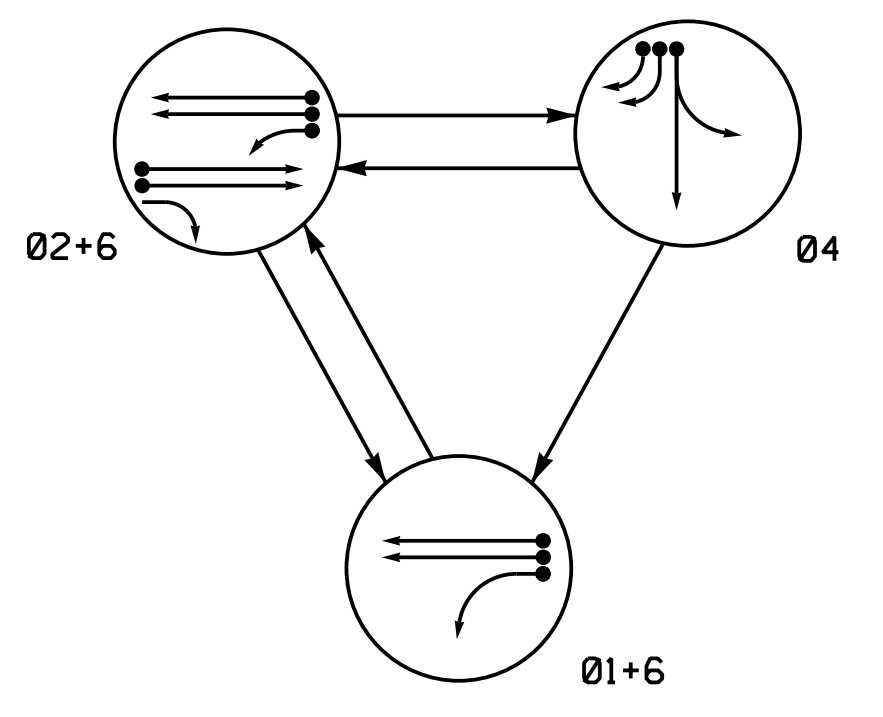
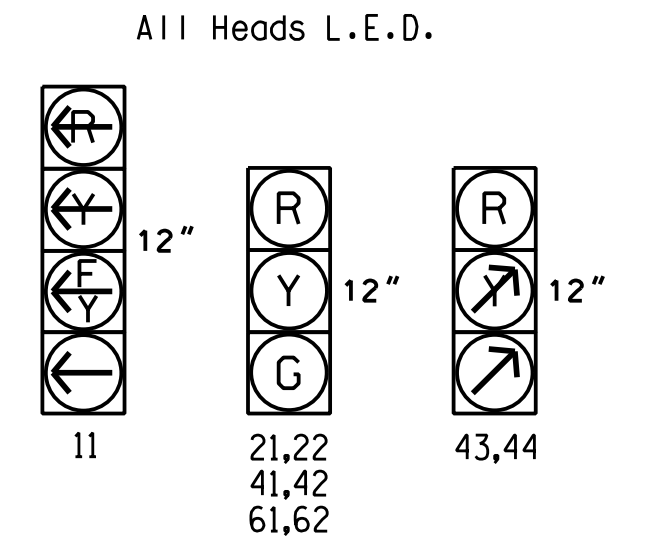


TABLE OF OPERATION

SIGNAL FACE	PHASE			FLASH
	01+6	02+6	04	
11	—	—	—	—
21,22	R	G	R	Y
41,42	R	R	G	R
43,44	R	R	—	R
61,62	G	G	R	Y

SIGNAL FACE I.D.



OASIS 2070E LOOP & DETECTOR INSTALLATION CHART

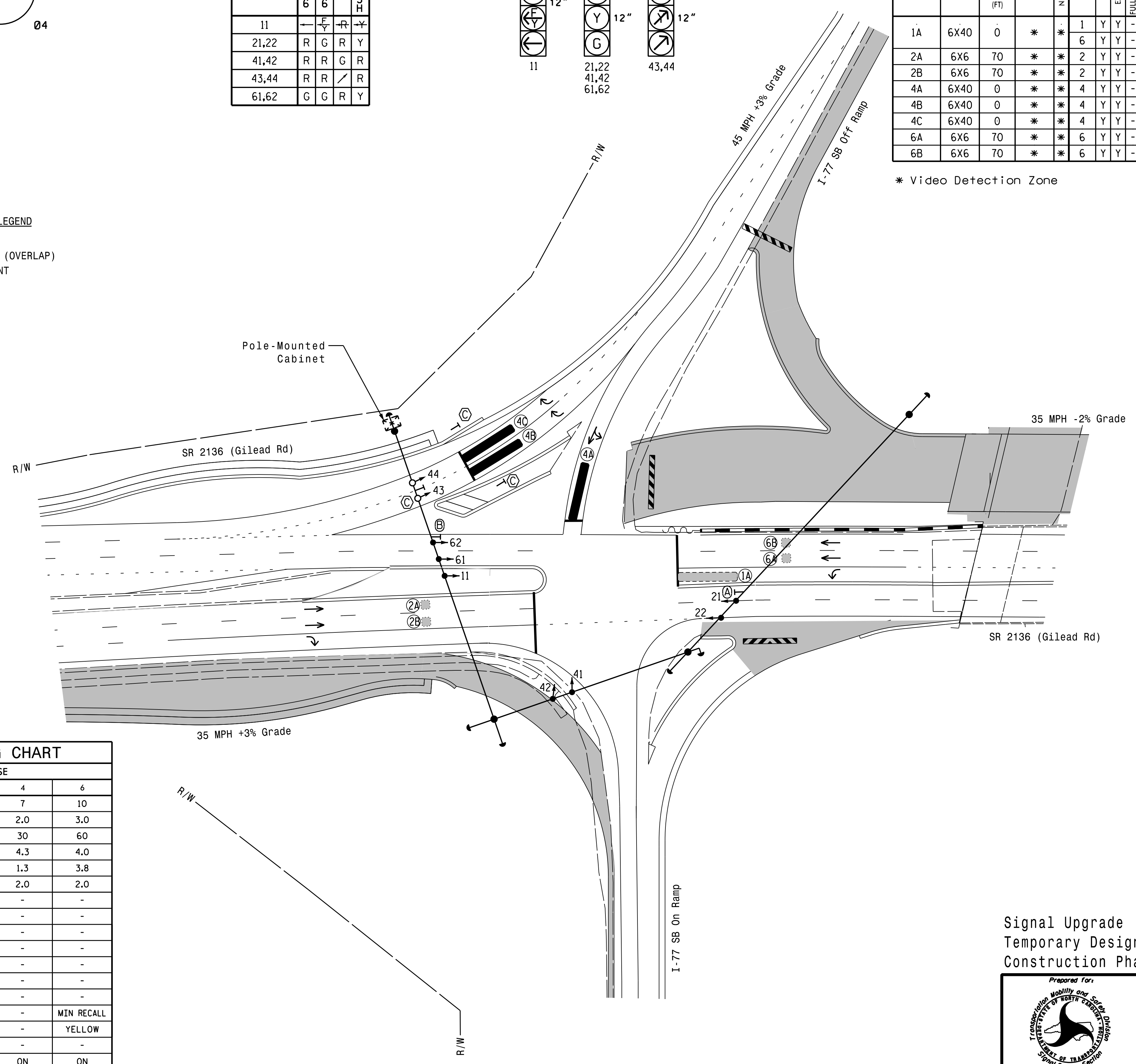
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY				
1A	6X40	0	*	*	1	Y	Y	-	-	15	-	*
2A	6X6	70	*	*	6	Y	Y	-	-	-	-	*
2B	6X6	70	*	*	2	Y	Y	-	-	-	-	*
4A	6X40	0	*	*	4	Y	Y	-	-	-	-	*
4B	6X40	0	*	*	4	Y	Y	-	-	-	-	*
4C	6X40	0	*	*	4	Y	Y	-	-	-	-	*
6A	6X6	70	*	*	6	Y	Y	-	-	-	-	*
6B	6X6	70	*	*	6	Y	Y	-	-	-	-	*

* Video Detection Zone

3 Phase Fully Actuated Gilead Road Closed Loop System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 may be lagged.
- Set all detector units to presence mode.
- Reposition existing signal heads numbered 41 and 42.
- Incorporate Video Detection system for vehicle detection.
- Provide the Engineer with the Manufacturer's approved Video Detection locations and mounting heights to obtain detection zones as shown.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset #1106



OASIS 2070E TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Min Green 1 *	7	10	7	10
Extension 1 *	2.0	3.0	2.0	3.0
Max Green 1 *	25	60	30	60
Yellow Clearance	3.0	4.0	4.3	4.0
Red Clearance	1.9	3.8	1.3	3.8
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	-	YELLOW
Dual Entry	-	-	-	-
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.

LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → N/A
— Sign	— Sign
⊥ Pedestrian Signal Head With Push Button & Sign	⊥ Pedestrian Signal Head With Push Button & Sign
○ → Signal Pole with Guy	○ → Signal Pole with Guy
○ → Signal Pole with Sidewalk Guy	○ → Signal Pole with Sidewalk Guy
⊠ Inductive Loop Detector	⊠ Inductive Loop Detector
⊠ Controller & Cabinet	⊠ Junction Box
⊠ Junction Box	⊠ Junction Box
— 2-in Underground Conduit	— 2-in Underground Conduit
N/A Right of Way	N/A Right of Way
→ Directional Arrow	→ Directional Arrow
▬ Video Detection Zone	▬ Video Detection Zone
— Directional Drill	N/A
♯ Wheelchair Ramp	N/A
▬ Construction Zone	N/A
▬ Construction Barrier	N/A
(A) No U-Turn/No Left Turn Sign (R3-18)	(A) No U-Turn/No Left Turn Sign (R3-18)
(B) No Right Turn Sign (R3-1)	(B) No Right Turn Sign (R3-1)
(C) "NO TURN ON RED" Sign (R10-11)	(C) "NO TURN ON RED" Sign (R10-11)

Signal Upgrade
Temporary Design 2
Construction Phases II,III

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

<p>HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997</p>	<p>SR 2136 (Gilead Road) at I-77 SB Ramps</p> <p>Division 10 Mecklenburg Co. Huntersville PLAN DATE: December 2017 REVIEWED BY: A.D. Klinksiek PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons</p>	<p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464 NATASHA R. SIMMONS</p>						
	<p>750 N. Greenfield Pkwy, Garner, NC 27529</p> <p>SCALE 0 40 1"=40'</p>	<p>REVISIONS</p> <table border="1"> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> <p>DocuSigned by: Natasha R. Simmons SIGNATURE DATE 4/23/2018</p>	REVISIONS	INIT.	DATE			
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