

3 Phase Fully Actuated (High Point Signal System) 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. Phase 5 may be lagged.
4. Reposition existing signalheads numbered 21, 22, 51, 61 and 62.
5. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. This intersection uses video detection, install according to manufacturer's instructions to achieve the desired detection.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
10. All metal poles, mastarms, and pedestrian pedestals shall be black power coated and fluted design approved by City of High Point. Refer to the Project Special Provisions for details.

PHASING DIAGRAM

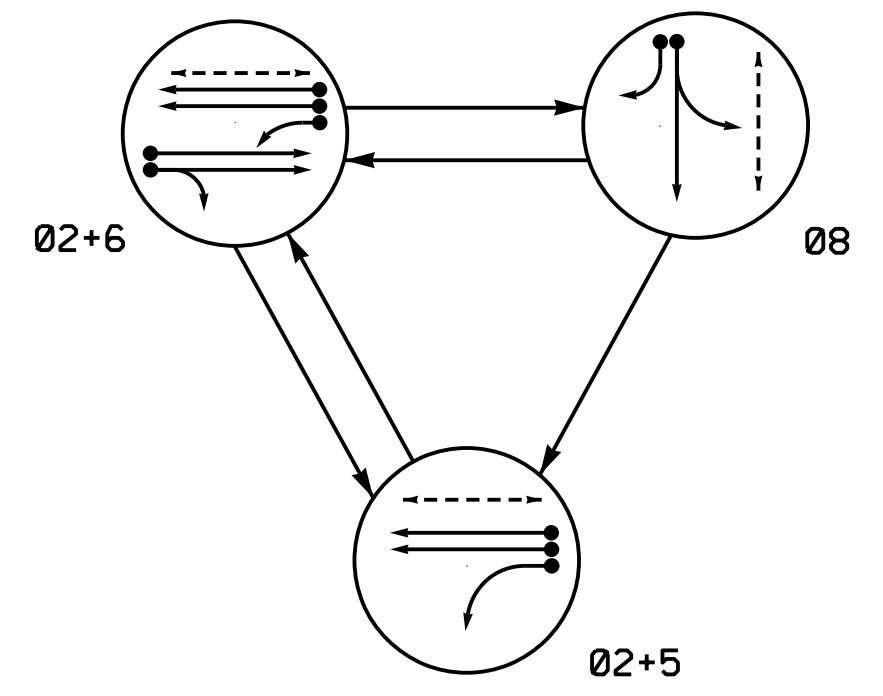
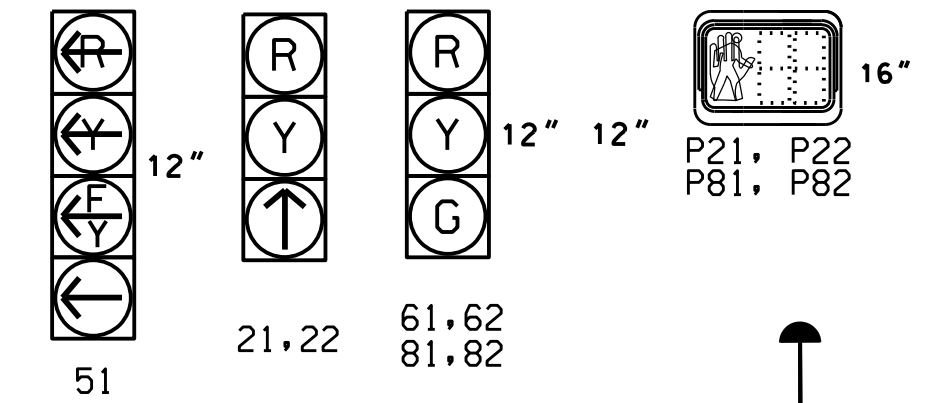


TABLE OF OPERATION

SIGNAL FACE	PHASE			FLASH
	02+5	02+6	08	
21,22			R	Y
51	-	-	R	-
61,62	R	G	R	G
81,82	R	R	G	R
P21,P22	W	W	DW	DRK
P81,P82	DW	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



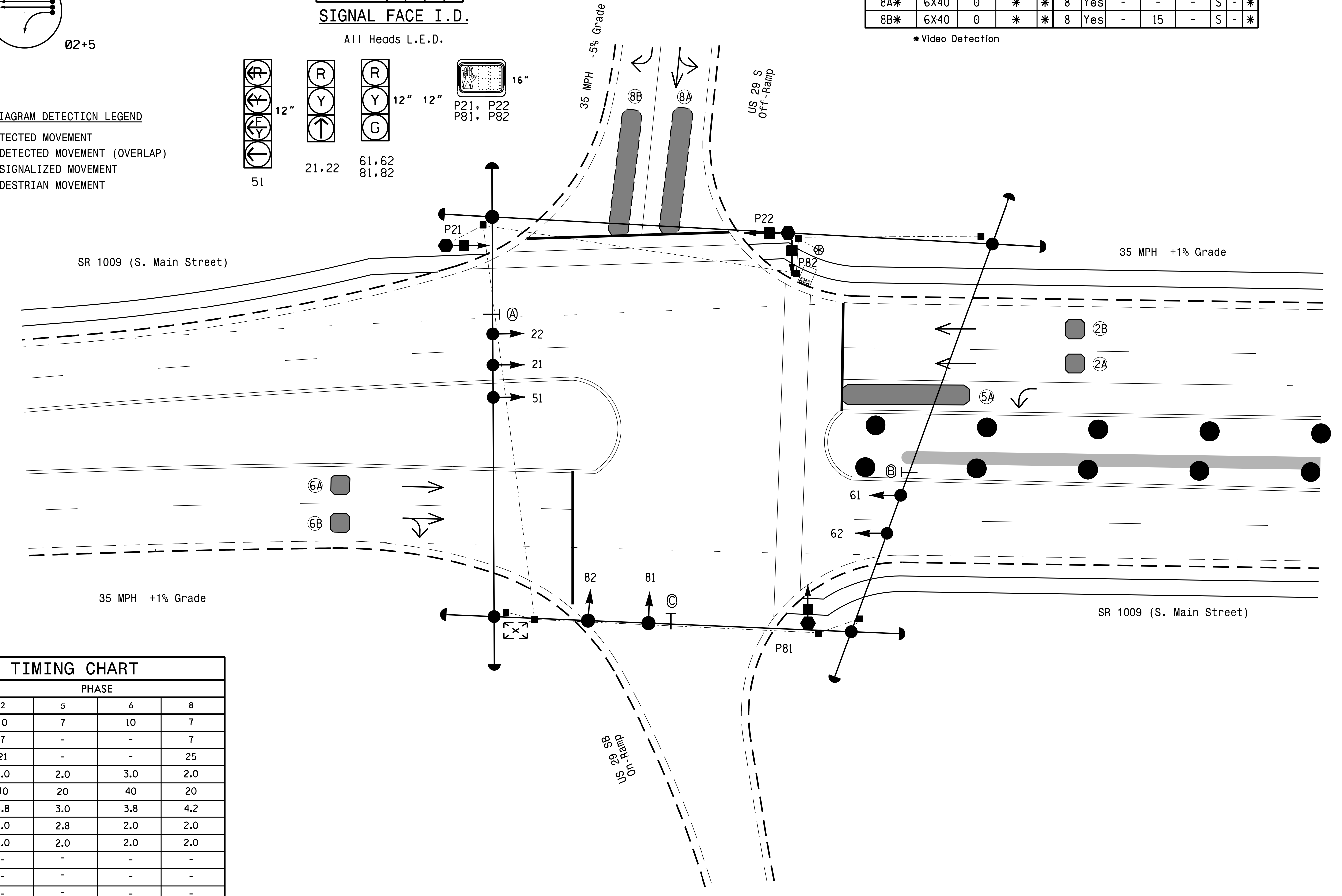
ASC/3 DETECTOR INSTALLATION CHART

ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP	NEW CARD
2A*	6X6	70	*	*	2	Yes	-	-	-	S	-	*
2B*	6X6	70	*	*	2	Yes	-	-	-	S	-	*
5A*	6X40	0	*	*	5	Yes	-	15	-	S	-	*
6A*	6X6	70	*	*	6	Yes	-	-	-	S	-	*
6B*	6X6	70	*	*	6	Yes	-	-	-	S	-	*
8A*	6X40	0	*	*	8	Yes	-	-	-	S	-	*
8B*	6X40	0	*	*	8	Yes	-	15	-	S	-	*

* Video Detection

PHASING DIAGRAM DETECTION LEGEND

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

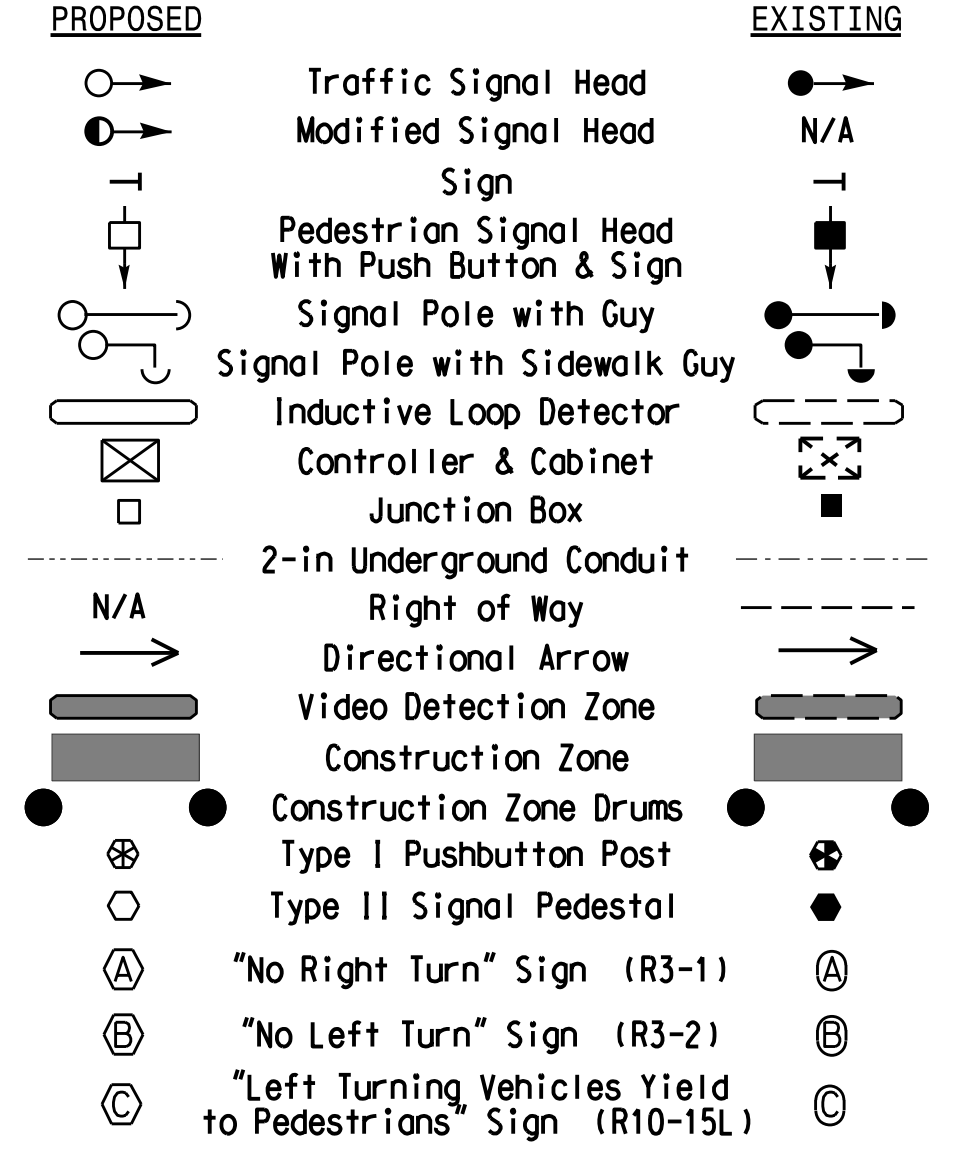


ASC/3 TIMING CHART

FEATURE	PHASE			
	2	5	6	8
Min Green *	10	7	10	7
Walk *	7	-	-	7
Ped Clear	21	-	-	25
Veh. Extension *	3.0	2.0	3.0	2.0
Max I *	40	20	40	20
Yellow	3.8	3.0	3.8	4.2
Red Clear	2.0	2.8	2.0	2.0
Red Revert	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-
Seconds /Actuation *	-	-	-	-
Max Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Locking Detector	X	-	X	-
Recall Position	VEH. RECALL	-	VEH. RECALL	-
Dual Entry	-	-	-	-
Simultaneous Gap	X	X	X	X

* 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



Signal Upgrade - Temporary Design 5 (TMP Phase VI)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

 1621 Purfoy Road Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com License No. F-0669	 Prepared for the Office of:	SR 1009 (S. Main Street) at US 29 SB Ramps		 Division 7 Guilford County High Point PLAN DATE: May 2021 REVIEWED BY: BA Lehan PREPARED BY: DE Fowler REVIEWED BY:
		SCALE 0 20 1"=20'	REVISIONS INIT. DATE	