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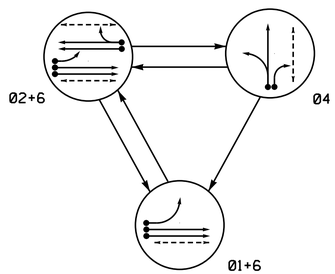
PROJECT REFERENCE NO.	SHEET NO.
U-5896	Sig. 13.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

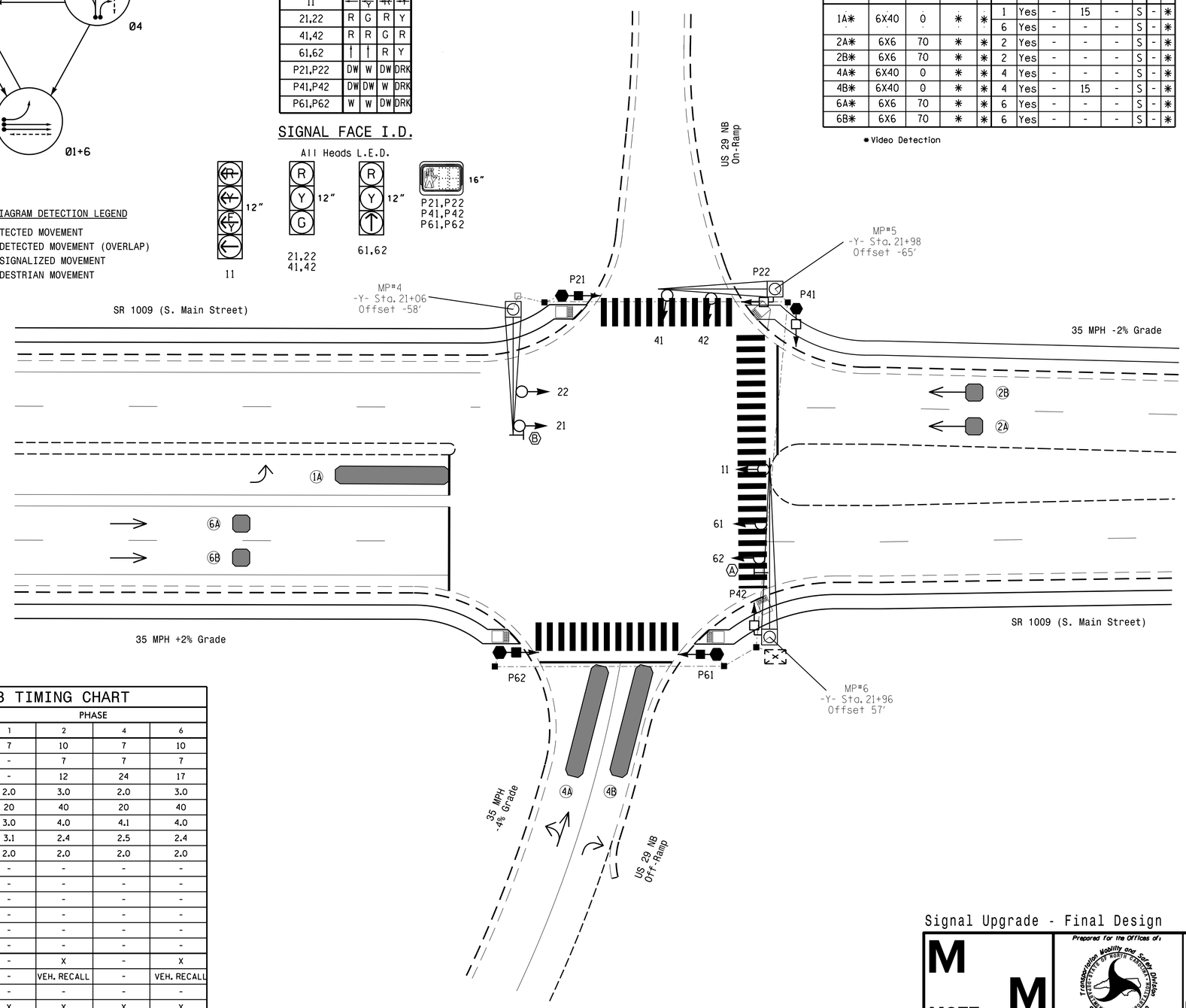
SIGNAL FACE	PHASE 01+6	PHASE 02+6	PHASE 04	FLASH
11	~~←~~	~~F Y~~	~~R~~	~~Y~~
21,22	R	G	R	Y
41,42	R	R	G	R
61,62	↑	↑	R	Y
P21,P22	DW	W	DW	DRK
P41,P42	DW	DW	W	DRK
P61,P62	W	W	DW	DRK

SIGNAL FACE I.D.

ASC/3 DETECTOR INSTALLATION CHART

DETECTOR ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A✱	6X40	0	✱	✱	1	Yes	-	15	-	S	-	✱
					6	Yes	-	-	-	S	-	✱
2A✱	6X6	70	✱	✱	2	Yes	-	-	-	S	-	✱
2B✱	6X6	70	✱	✱	2	Yes	-	-	-	S	-	✱
4A✱	6X40	0	✱	✱	4	Yes	-	-	-	S	-	✱
4B✱	6X40	0	✱	✱	4	Yes	-	15	-	S	-	✱
6A✱	6X6	70	✱	✱	6	Yes	-	-	-	S	-	✱
6B✱	6X6	70	✱	✱	6	Yes	-	-	-	S	-	✱

✱ Video Detection



ASC/3 TIMING CHART

FEATURE	PHASE 1	PHASE 2	PHASE 4	PHASE 6
Min Green *	7	10	7	10
Walk *	-	7	7	7
Ped Clear	-	12	24	17
Veh. Extension *	2.0	3.0	2.0	3.0
Max 1 *	20	40	20	40
Yellow	3.0	4.0	4.1	4.0
Red Clear	3.1	2.4	2.5	2.4
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.

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

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	
	Metal Pole with Mastarm	
	Type II Signal Pedestal	
	"No Right Turn" Sign (R3-1)	
	"No U-Turn/No Left Turn" Sign (R3-18)	

Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SCALE 0 20
1"=20'

SR 1009 (S. Main Street)
at
US 29 NB Ramps

Division 7 Guilford County High Point

PLAN DATE:	May 2021	REVIEWED BY:	RW Thompson
PREPARED BY:	DE Fowler	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045256 BRENDAN A. LEHAN

DocuSigned Brendan Lehan 09 December 202
SIGNATURE DATE

SIG. INVENTORY NO. 07-1586

$$$$$SIGTIME$$$$$
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