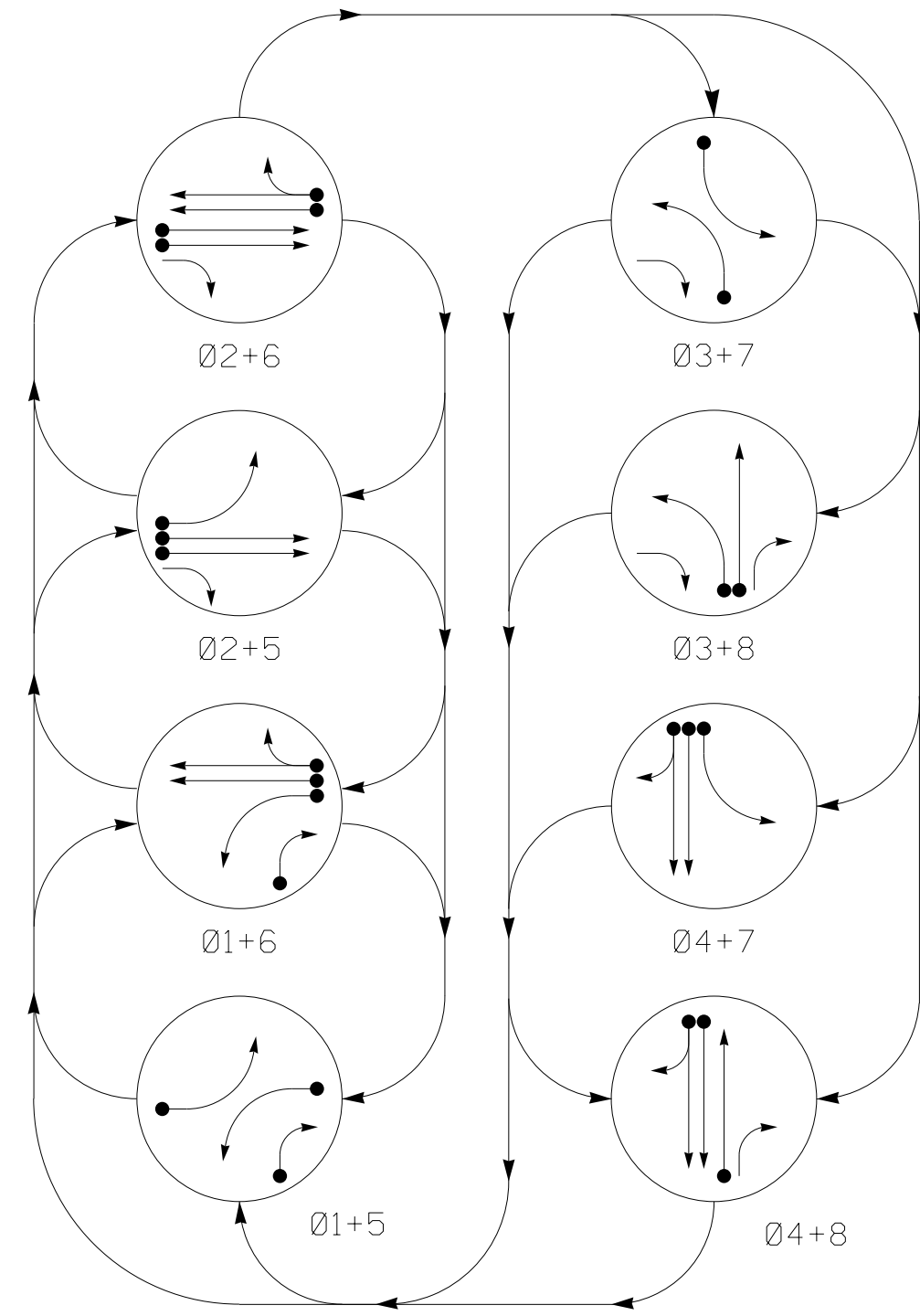
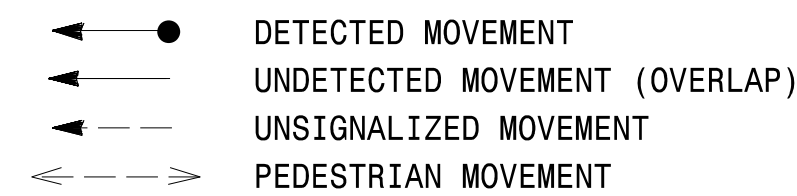


PHASING DIAGRAM



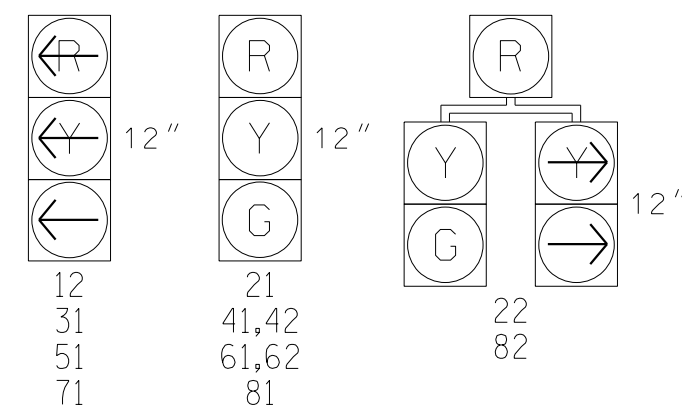
PHASING DIAGRAM DETECTION LEGEND



SIGNAL FACE	PHASE							
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3+7	Ø3+8	Ø4+7	Ø4+8
12	←	←	←	←	←	←	←	←
21	R	R	G	G	R	R	R	Y
22	R	R	G	G	R	R	R	Y
31	←	←	←	←	←	←	←	←
41,42	R	R	R	R	R	R	G	G
51	←	←	←	←	←	←	←	←
61,62	R	G	R	G	R	R	R	Y
71	←	←	←	←	←	←	←	←
81	R	R	R	R	R	G	R	G
82	←	←	←	←	←	←	←	←

SIGNAL FACE I.D.

All Heads L.E.D.



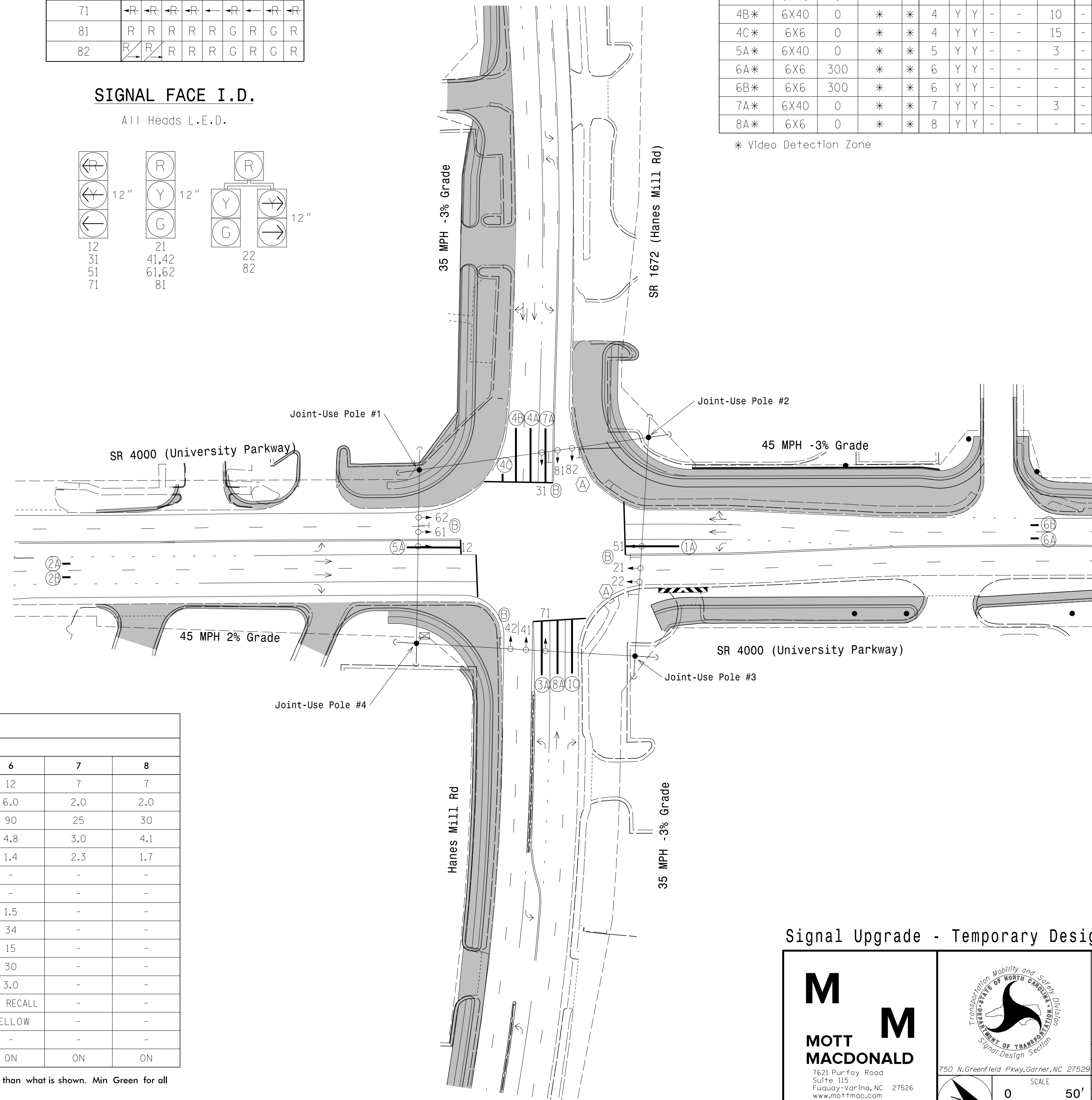
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY				
1A*	6X40	0	*	*	1	Y	Y	-	-	3	-	*
1C*	6X40	0	*	*	1	Y	Y	-	-	15	-	*
2A*	6X6	300	*	*	2	Y	Y	-	-	-	-	*
2B*	6X6	300	*	*	2	Y	Y	-	-	-	-	*
3A*	6X40	0	*	*	3	Y	Y	-	-	3	-	*
4A*	6X40	0	*	*	4	Y	Y	-	-	-	-	*
4B*	6X40	0	*	*	4	Y	Y	-	-	10	-	*
4C*	6X6	0	*	*	4	Y	Y	-	-	15	-	*
5A*	6X40	0	*	*	5	Y	Y	-	-	3	-	*
6A*	6X6	300	*	*	6	Y	Y	-	-	-	-	*
6B*	6X6	300	*	*	6	Y	Y	-	-	-	-	*
7A*	6X40	0	*	*	7	Y	Y	-	-	3	-	*
8A*	6X6	0	*	*	8	Y	Y	-	-	-	-	*

* Video Detection Zone

8 Phase Fully Actuated (Winston-Salem 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 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Set all detector units to presence mode.
6. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. The cabinet should be designed to include an Auxiliary Output File for future use.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	25	90	25	30	25	90	25	30
Yellow Clearance	3.0	4.3	3.0	4.1	3.0	4.8	3.0	4.1
Red Clearance	2.8	1.2	2.4	1.7	2.8	1.4	2.3	1.7
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	-	1.5	-	-
Max Variable Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	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.

PROPOSED		EXISTING	
	Traffic Signal Head		Traffic Signal Head
	Modified Signal Head		N/A
	Sign		N/A
	Pedestrian Signal Head With Push Button & Sign		Pedestrian Signal Head
	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		Controller & Cabinet
	Junction Box		Junction Box
	2-in Underground Conduit		2-in Underground Conduit
	Right of Way		Right of Way
	Directional Arrow		Directional Arrow
	Directional Drill		N/A
	TYPE III Barricade		TYPE III Barricade
	Construction Zone		Construction Zone
	Video Detection Zone		Video Detection Zone
	Right Arrow "ONLY" Sign (R3-SR)		Right Arrow "ONLY" Sign (R3-SR)
	Street Name Sign by others (D3-1)		Street Name Sign by others (D3-1)

Signal Upgrade - Temporary Design 1 (TMP Phase II)

MOTT MACDONALD
 7621 Purfoy Road
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 www.mottmac.com
 License No. F-0669

TRANSPORTATION MOBILITY AND SAFETY DIVISION
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 SIGNAL DESIGN SECTION

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE
 0 50'
 1" = 50'

SR 4000 (University Parkway)
 at
 SR 1672 (Hanes Mill Rd)

Division 9 Forsyth County Winston-Salem

PLAN DATE: March 2023 REVIEWED BY: RW Thompson

PREPARED BY: LD Stouchko REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 RUSSELL W. THOMPSON
 SEAL 032711

SIGNATURE: Russell W. Thompson
 DATE: _____
 SIGNATURE: _____
 DATE: _____
 SIG. INVENTORY NO. 09-055711