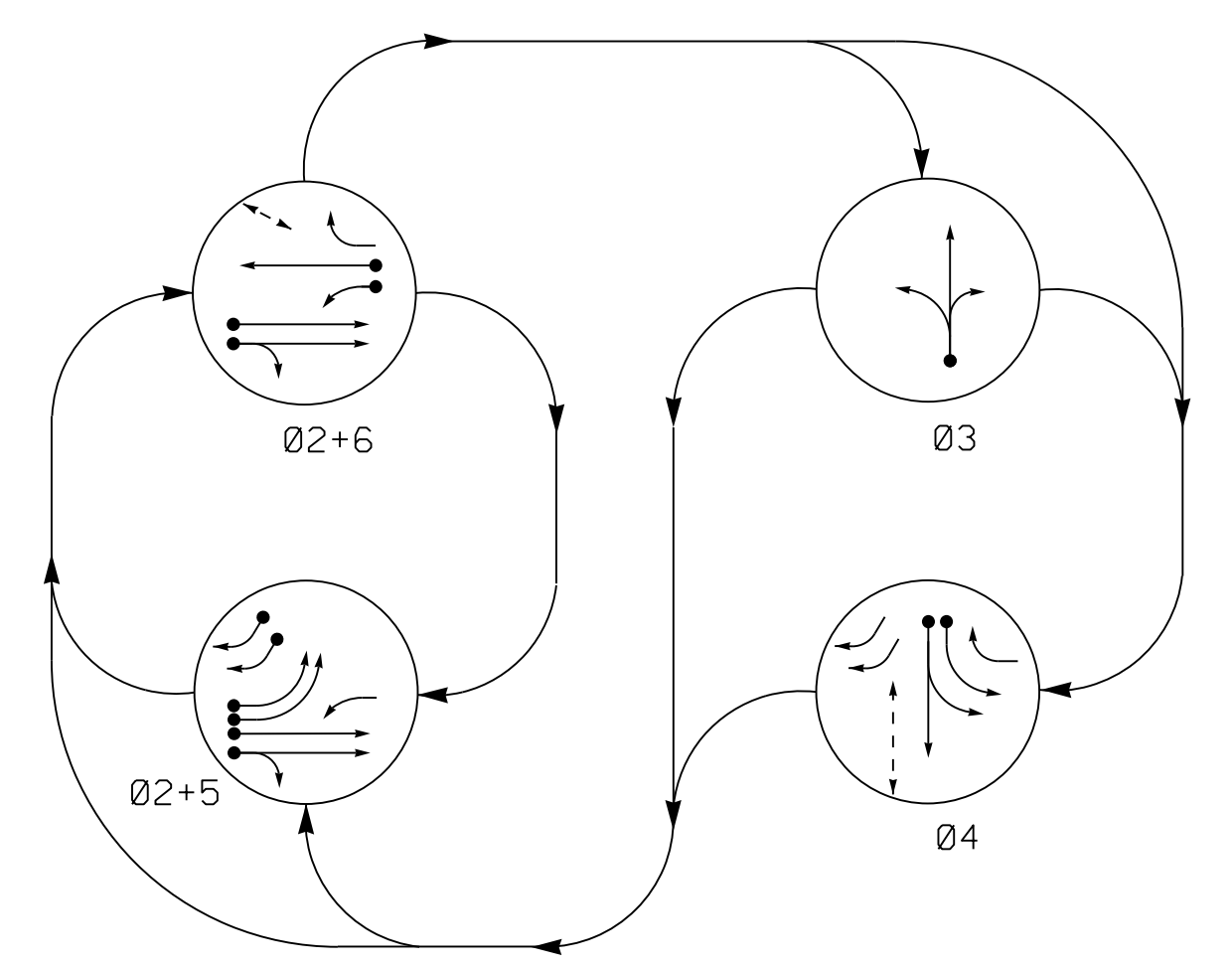


PHASING DIAGRAM



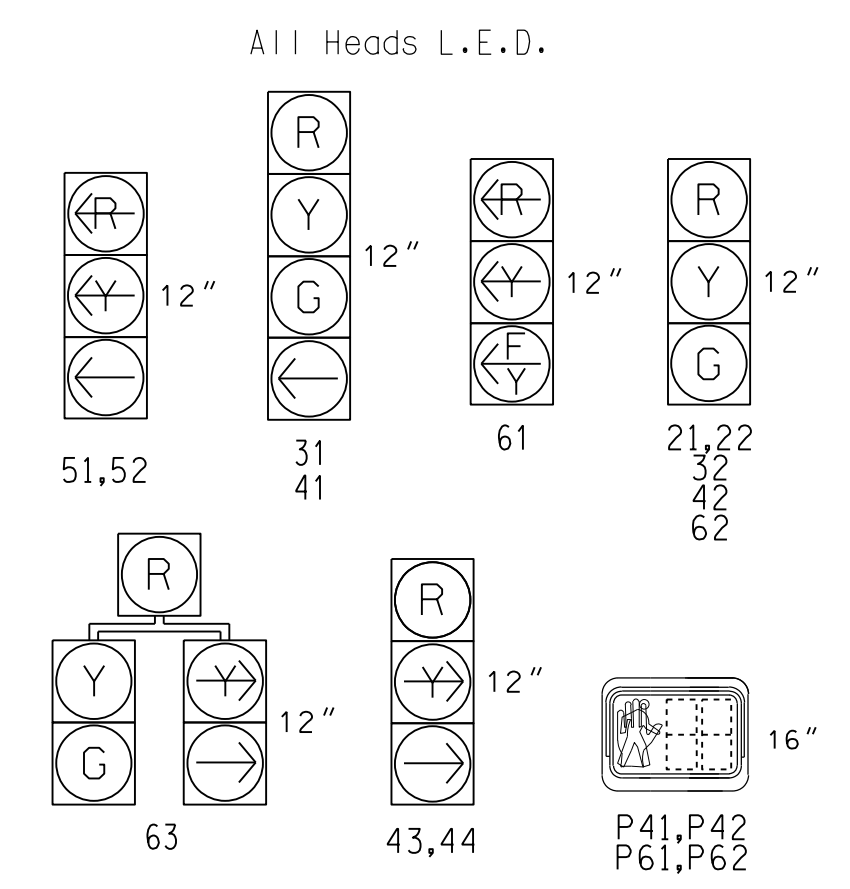
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE				
	02+5	02+6	03	04	FLSH
21,22	G	G	R	R	Y
31	R	R	G	R	R
32	R	R	G	R	R
41	R	R	R	G	R
42	R	R	R	G	R
43,44	→	R	R	→	R
51,52	←	R	R	←	R
61	E	E	R	R	Y
62	R	G	R	R	Y
63	R	G	R	Y	Y
P41,P42	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	DW	DRK

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
2A/S1	6X6	300	EXIST	-	2	Y	Y	-	-	-	Y	-
2B/S2	6X6	300	EXIST	-	2	Y	Y	-	-	-	Y	-
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	-	-	-
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	-
4B	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	-
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	-	-	-
5B	6X40	0	2-4-2	-	5	Y	Y	-	-	-	-	-
5C	6X40	0	2-4-2	-	5	Y	Y	-	-	-	-	-
5D	6X40	0	2-4-2	-	5	Y	Y	-	-	-	-	-
6A	6X6	300	*	*	6	Y	Y	-	-	-	*	-
6B	6X40	0	*	*	6	Y	Y	Y	-	3	-	*
6C	6X40	0	*	*	6	Y	Y	Y	2.0	5	-	*

* Video Detection Area
Camera locations should be confirmed in the field by the contractor in order to provide detection of the areas indicated.

4 Phase Fully Actuated Signal System 11210

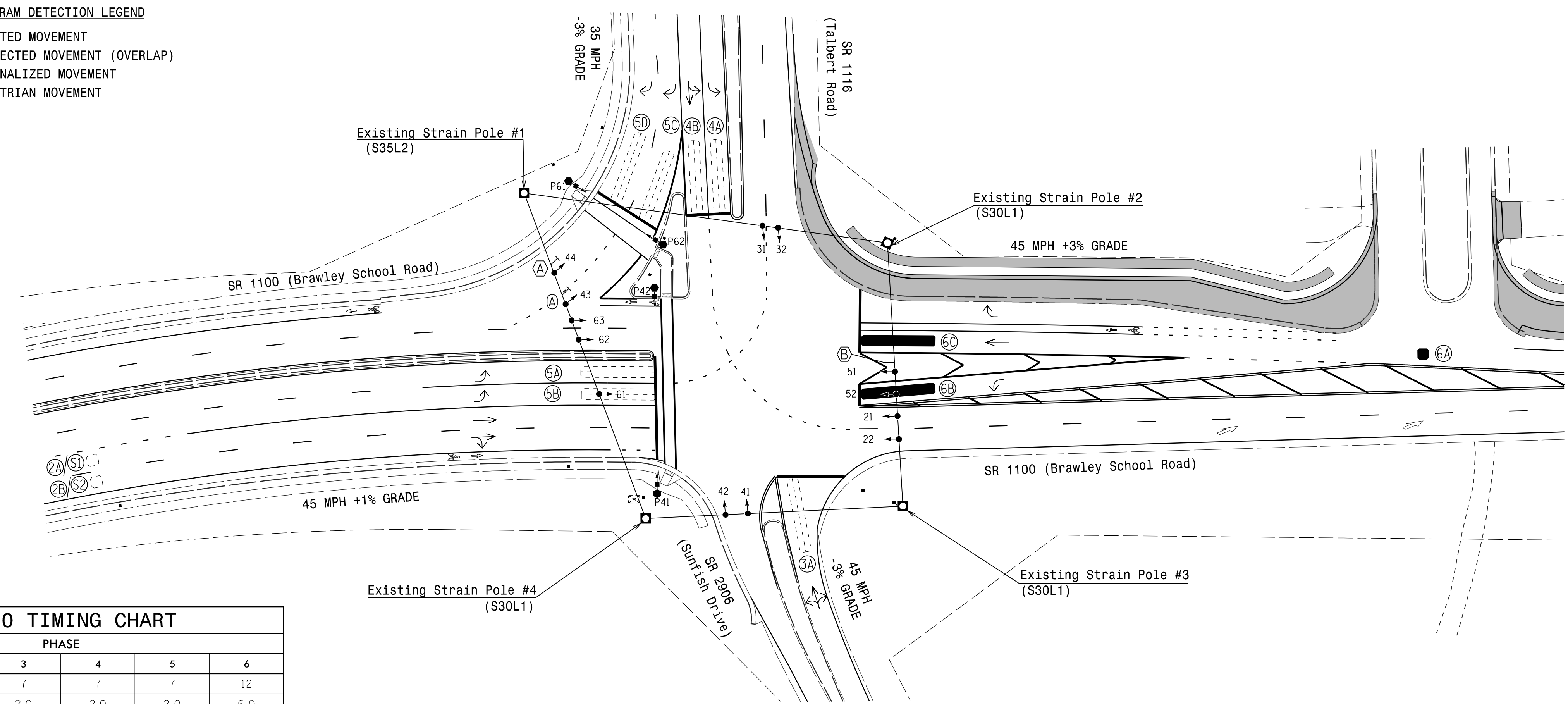
NOTES

- 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 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- This intersection features a video detection system. Shown locations of detectors are conceptual only. Detectors should be placed to ensure the desired operation parameters are achieved.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only. 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				
	2	3	4	5	6
Min Green 1 *	12	7	7	7	12
Extension 1 *	6.0	2.0	2.0	2.0	6.0
Max Green 1 *	90	25	25	30	90
Yellow Clearance	4.4	4.8	4.1	3.0	4.4
Red Clearance	1.6	1.6	2.9	2.9	1.6
Red Revert	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	7	-	7
Don't Walk 1	-	-	24	-	9
Seconds Per Actuation *	1.5	-	-	-	-
Max Variable Initial *	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	-	-	-	-
Dual Entry	-	-	-	-	-
Simultaneous Gap	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.



LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → Sign
○ → Pedestrian Signal Head	○ → Signal Pole with Guy
○ → Signal Pole with 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	○ → Metal Strain Pole
○ → Metal Strain Pole	○ → Directional Drill
○ → Directional Drill	○ → Video Detection Area
○ → Video Detection Area	○ → Type II Signal Pedestal
○ → Type II Signal Pedestal	○ → Construction Zone
○ → Construction Zone	○ → "NO TURN ON RED" Sign (R10-11)
○ → "NO TURN ON RED" Sign (R10-11)	○ → "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)
○ → "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	

Signal Upgrade Temporary Design 1 - TMP Phase I

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Prepared for the Offices of:
Transportation Mobility and Safety Division
North Carolina Department of Transportation
Signal Design Section
750 N. Greenfield Pkwy, Garner, NC 27526
SCALE: 0 40
1" = 40'

SR 1100 (Brawley School Road) at SR 1116 (Talbert Road)/SR 2906 (Sunfish Drive)
Division 12 Iredell County Mooresville
PLAN DATE: May 2022 REVIEWED BY: E D Harris
PREPARED BY: J. Hanbright REVIEWED BY: R M Muncey

REVISIONS	INIT.	DATE

SEAL
PROFESSIONAL ENGINEER
SEAL 042678
D. W. WALLER
DocuSigned by:
Dorrick Waller 3/24/2023
DATE
SIG. INVENTORY NO. 12-168911

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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