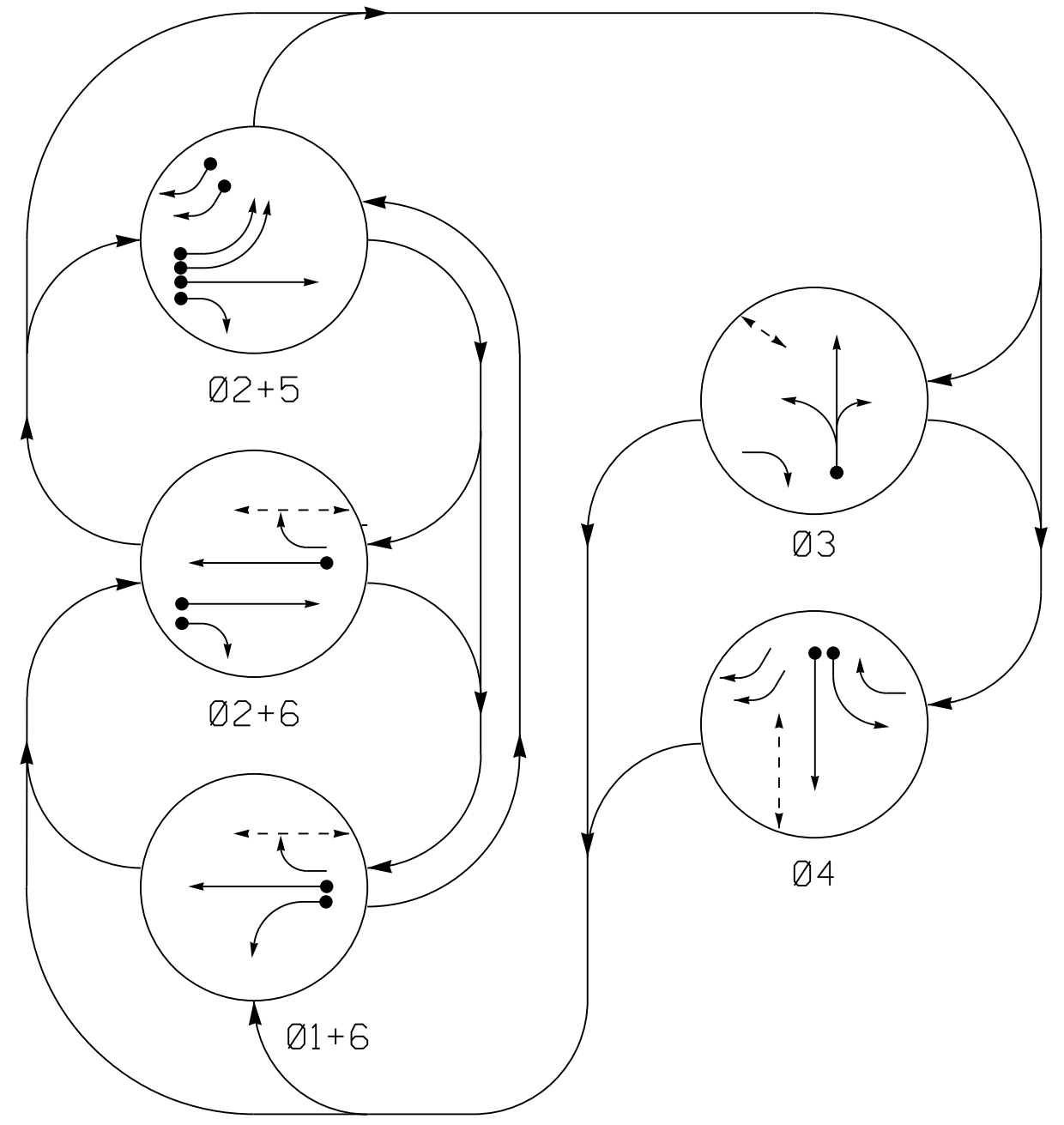


PHASING DIAGRAM



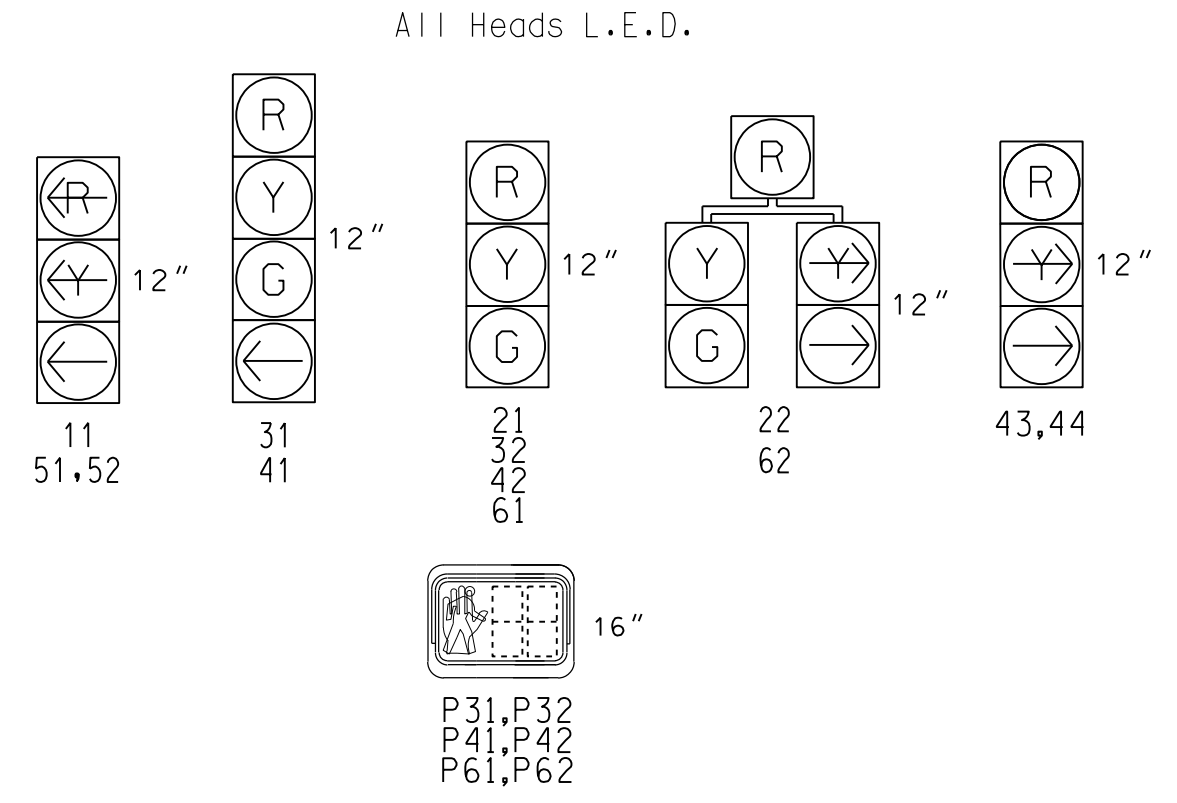
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE				
	Ø 1 + 6	Ø 2 + 6	Ø 2 + 5	Ø 3	Ø 4
11	←	←	←	←	←
21	R	G	G	R	R
22	R	G	G	R	R
31	R	R	R	G	R
32	R	R	R	G	R
41	R	R	R	G	R
42	R	R	R	G	R
43,44	R	R	→	→	→
51,52	←	←	←	←	←
61	G	G	R	R	Y
62	G	G	R	R	Y
P31,P32	DW	DW	DW	W	DRK
P41,P42	DW	DW	DW	W	DRK
P61,P62	W	W	DW	DW	DRK

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

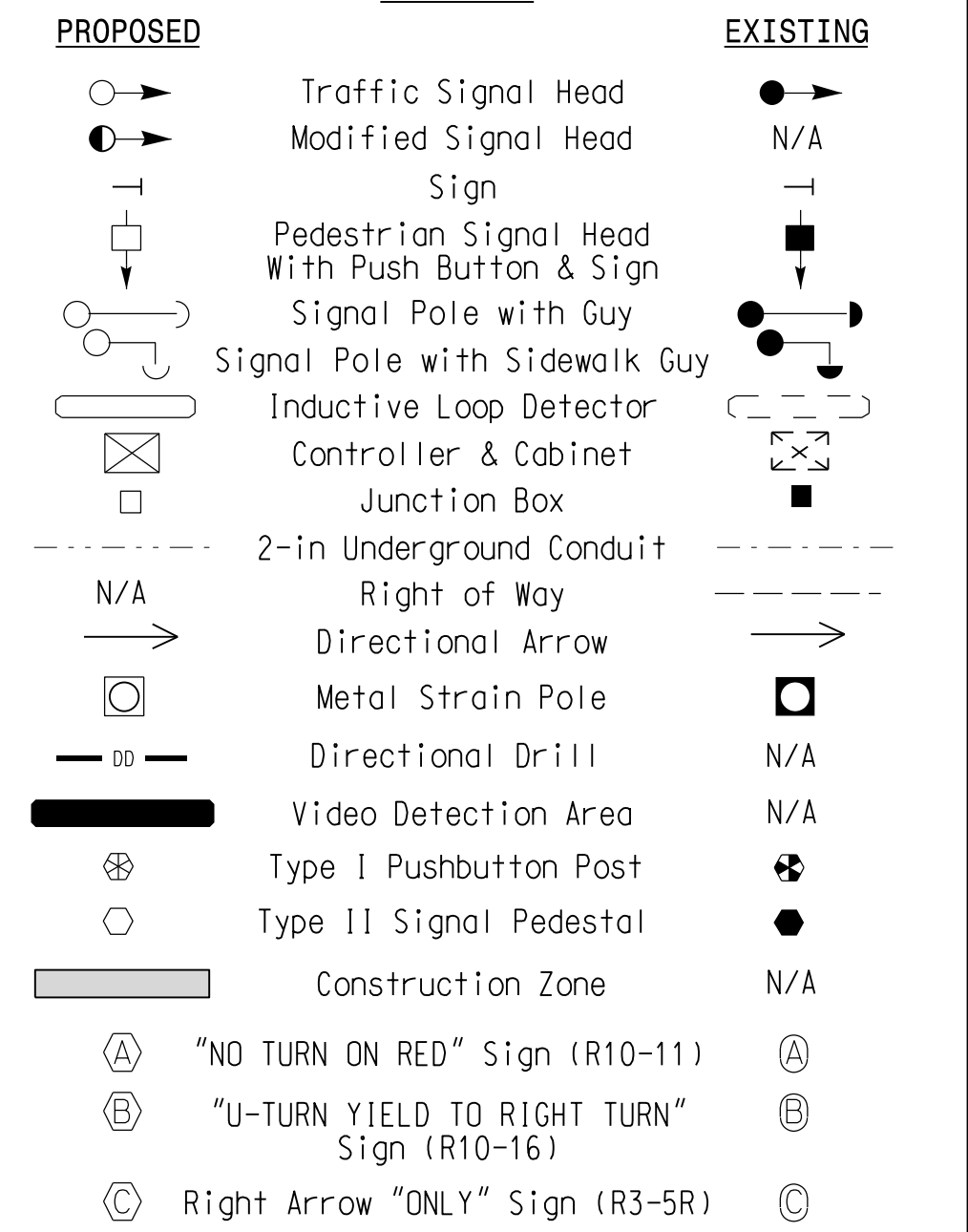
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	*	*	1	Y	Y	-	-	-	-	*
2A/S1	6X6	300	EXIST	-	2	Y	Y	-	-	-	-	Y
2B/S2	6X6	300	EXIST	-	2	Y	Y	-	-	-	-	Y
3A	6X40	0	*	*	3	Y	Y	-	-	-	-	-
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	2.0	5	-	-	-

5 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 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Renumber signal heads 62 and 63 to 61 and 62, renumber pedestrian signal heads P61 and P62 to P31 and P32, and renumber pedestrian signal heads P63 and P64 to P61 and P62, respectively.
- 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.
- Shift signal heads 11, 21, 51, 52, 61, 62, and Sign B.
- Crosswalk to be installed as shown in final pattern as part of the TMP.

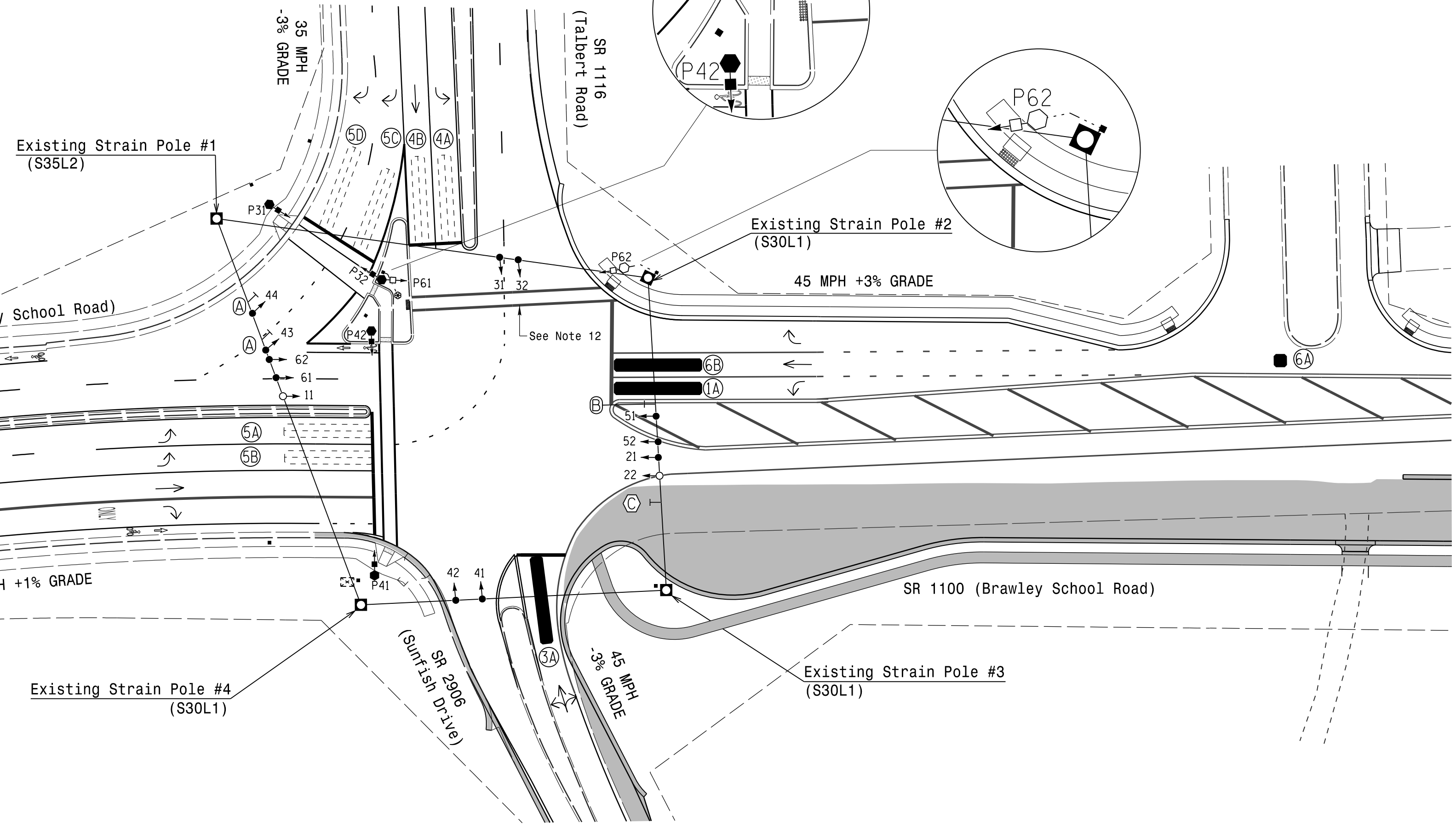
LEGEND



OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1*	7	12	7	7	7	12
Extension 1*	2.0	6.0	2.0	2.0	2.0	6.0
Max Green 1*	15	90	25	25	30	90
Yellow Clearance	3.0	4.4	4.8	4.1	3.0	4.3
Red Clearance	3.2	1.4	1.8	2.7	3.2	1.6
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1*	-	-	7	7	-	7
Don't Walk 1	-	-	9	24	-	22
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	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.



Signal Upgrade Temporary Design 2 - TMP Phase II

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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 Muncy  
REVISIONS: INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DocuSigned by: Brock A. Walker  
3/24/2023  
SIG. INVENTORY NO. 12-168912