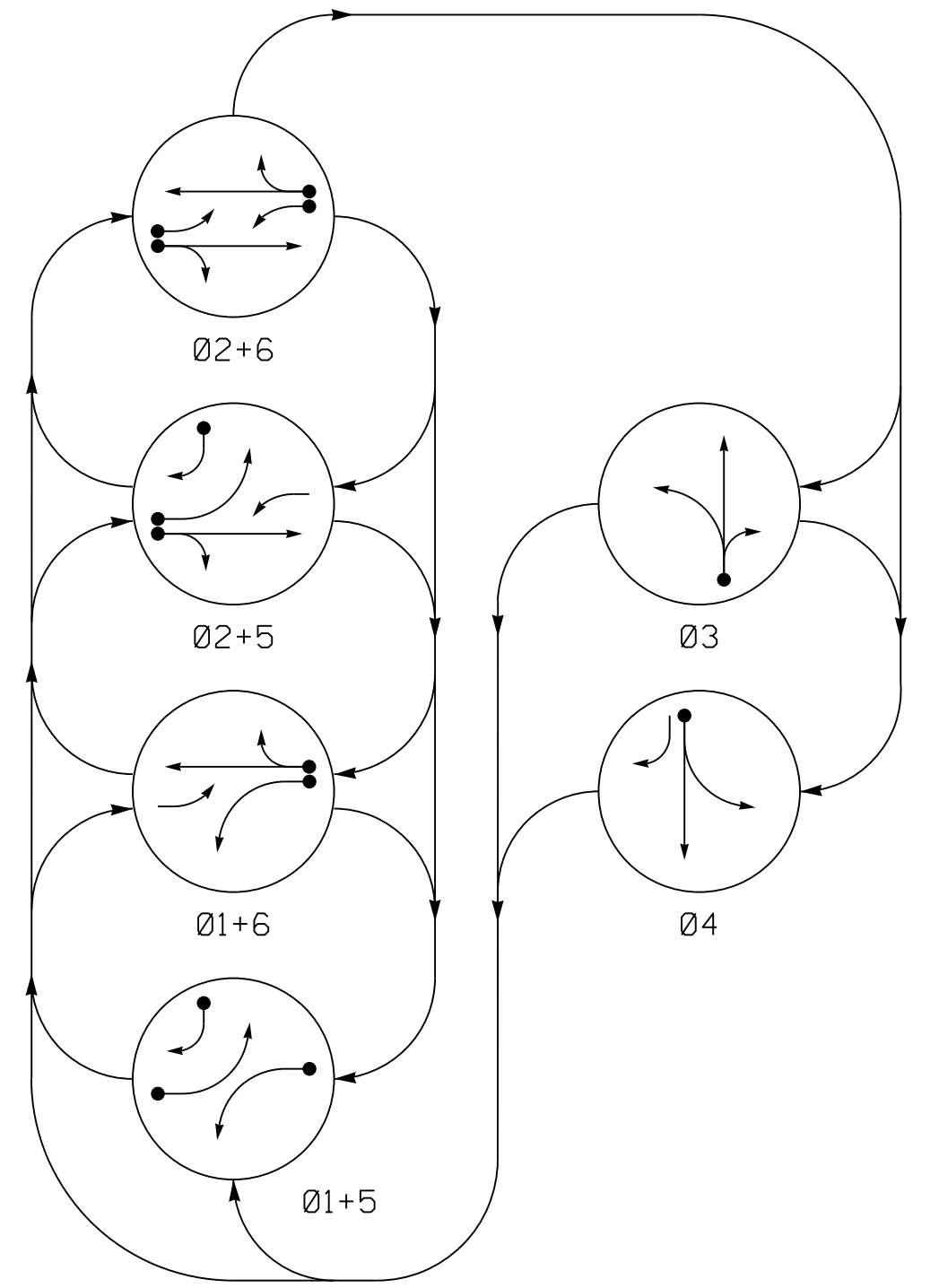


PHASING DIAGRAM



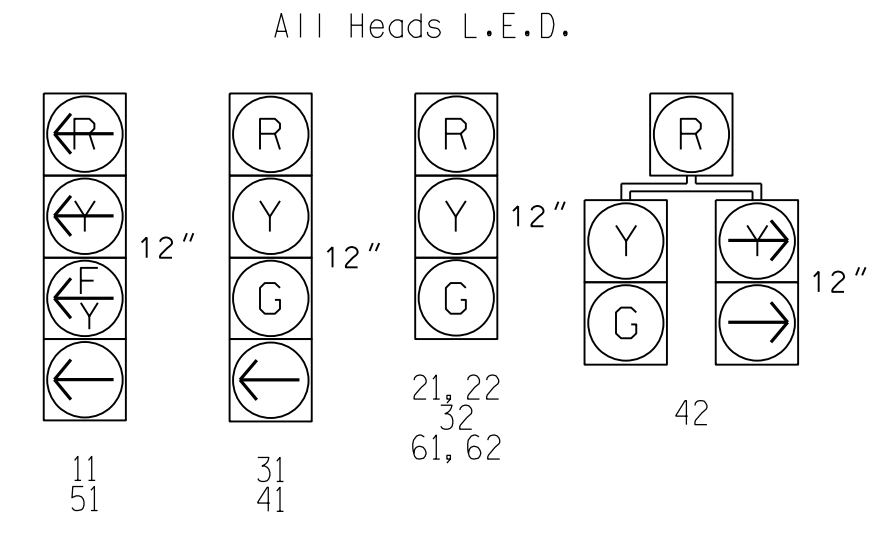
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3	Ø4
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	R
31	R	R	R	R	G	R
32	R	R	R	R	G	R
41	R	R	R	R	G	R
42	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	R

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

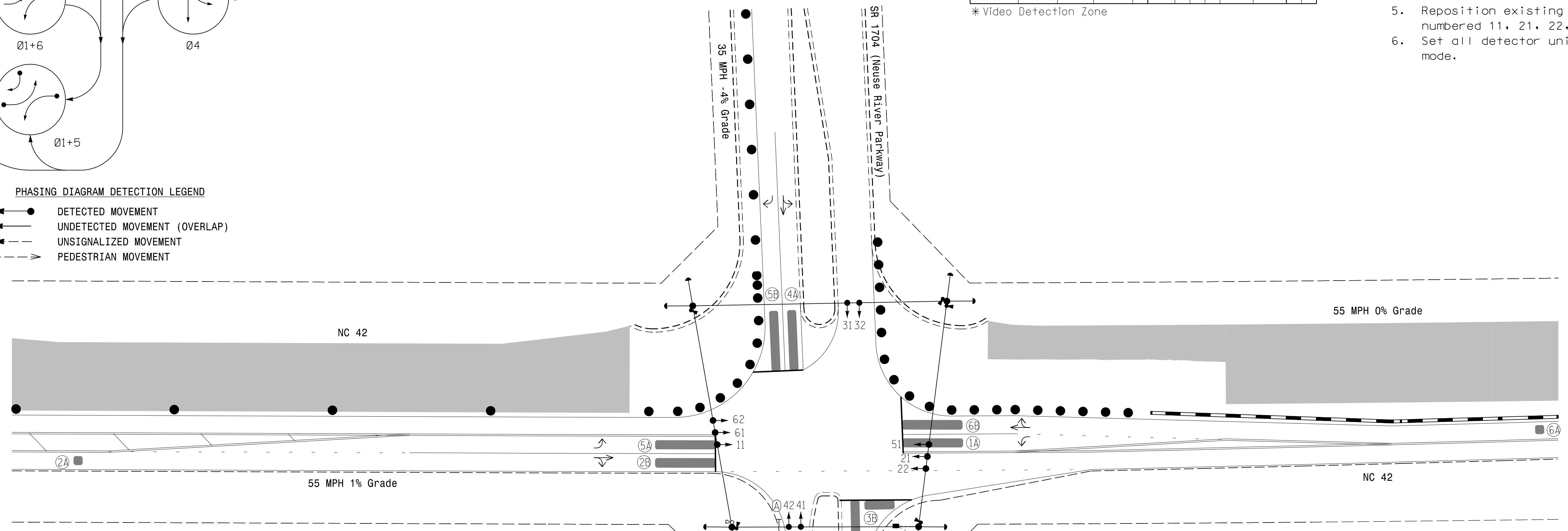
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
					PHASE	CALLING EXTENSION FULL TIME DELAY	EXTENSION FULL TIME DELAY	STRETCH TIME				
1A	6X40	0	*	Y	1	Y	Y	-	15	-	*	
2A	6X6	420	*	Y	2	Y	Y	-	-	-	*	
2B	6X40	0	*	Y	2	Y	Y	2.0	5	-	*	
3A	6X40	0	*	Y	3	Y	Y	-	10	-	*	
3B	20X6	0	*	Y	3	Y	Y	-	15	-	*	
4A	6X40	0	*	Y	4	Y	Y	-	-	-	*	
5A	6X40	0	*	Y	5	Y	Y	-	15	-	*	
5B	6X40	0	*	Y	5	Y	Y	-	15	-	*	
5C	6X40	+55	*	Y	5	Y	Y	-	15	-	*	
6A	6X6	420	*	Y	6	Y	Y	-	-	-	*	
6B	6C40	0	*	Y	6	Y	Y	2.0	5	-	*	

* Video Detection Zone

6 Phase Fully Actuated Isolated

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018, "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.
- Reposition existing signal heads numbered 11, 21, 22, 51, 61 and 62.
- Set all detector units to presence mode.



OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	14	7	7	7	14
Extension 1	2.0	6.0	2.0	2.0	2.0	6.0
Max Green 1 *	20	90	25	45	25	90
Yellow Clearance	3.2	5.2	3.0	4.1	3.1	5.2
Red Clearance	1.8	1.3	2.6	1.4	2.5	1.3
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.4	-	-	-	3.4
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL
Vehicle Call Memory	-	-	-	-	-	-
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.

LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
○ → Traffic Signal Head	● → Signal	--- 2-in Underground Conduit	--- Right of Way
○ ⊥ Signal Pole with Guy	● ⊥ Signal Pole with Sidewalk Guy	N/A → Directional Arrow	→ Construction Zone
— Video Detection Area	— Video Detector	● Construction Drums	N/A
⊠ Controller & Cabinet	⊠ Junction Box	⊠ Right Arrow "ONLY" Sign (R3-5R)	⊠
□ Oversized Junction Box	■		

Signal Upgrade - Temporary Design 3 (TMP Phase II)

Prepared by
URS
URS Corporation - North Carolina
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NC LICENSE # C-2243

Prepared for the Offices of:
TRANSPORTATION MOBILITY AND SAFETY DIVISION
STATE OF NORTH CAROLINA
750 N. Greenfield Pkwy, Garner, NC 27529

NC 42
at
SR 1704 (Neuse River Parkway) /
Queen Ann Drive
Division 4 Johnston County Clayton
PLAN DATE: January 2018 REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. COX REVIEWED BY:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
040715
C. L. KALENCIK
5/25/2018
SIG. INVENTORY NO. 04-1412T3

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