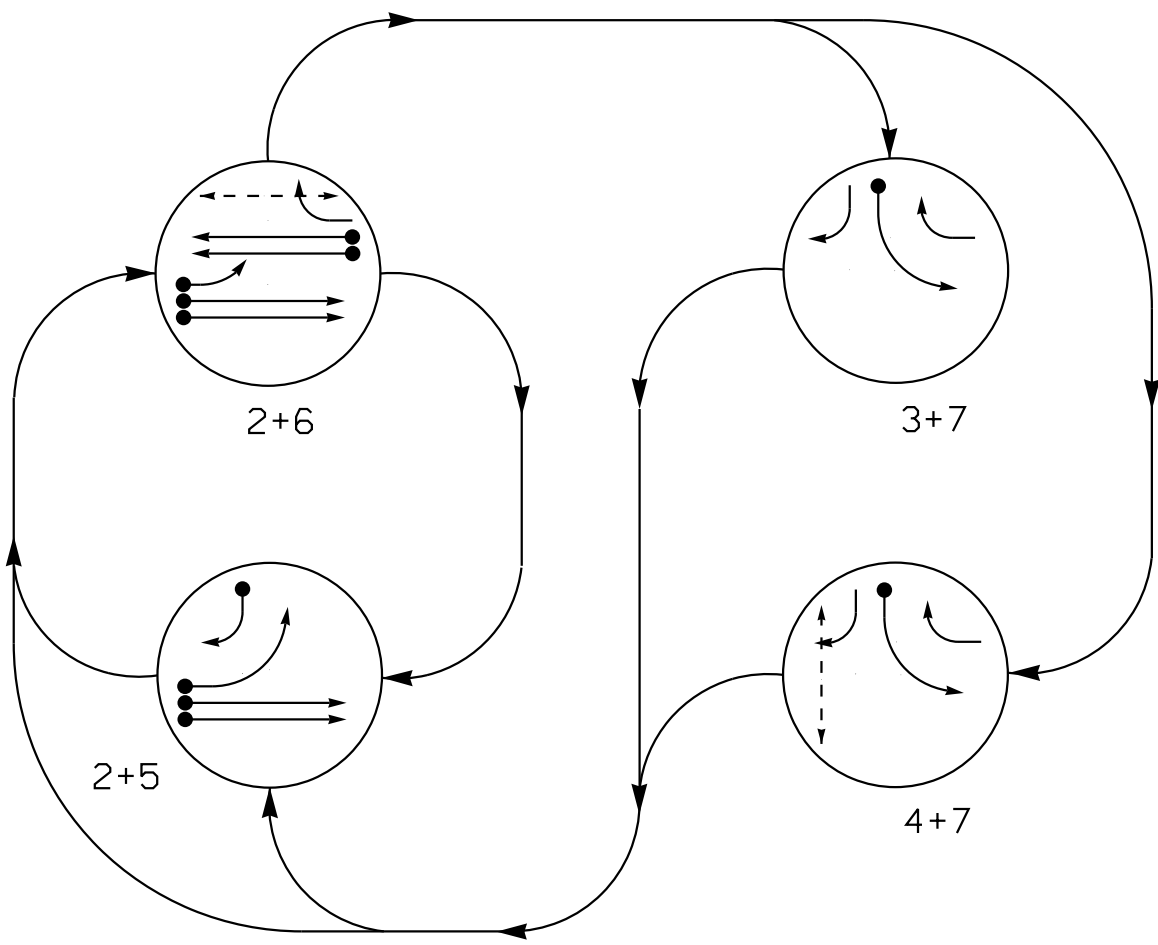
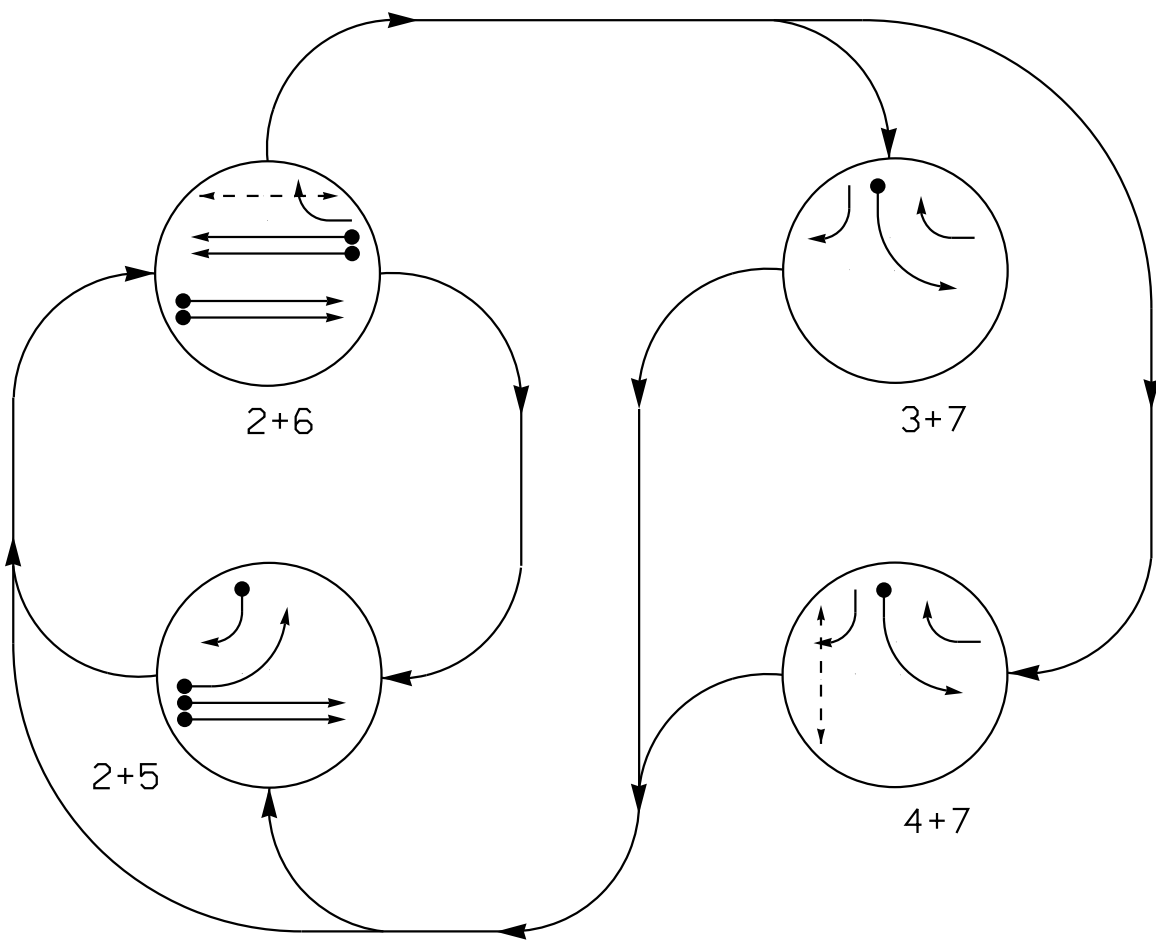


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION					
SIGNAL FACE	PHASE				
	2 + 5	2 + 6	3 + 7	4 + 7	F L A S H
21,22	G	G	R	R	R
41,43	←	←	←	←	←
42	→	R	→	→	R
51	←	→	←	←	←
61	R	↑	R	R	R
62	R	G	R	R	R
63	R	→	→	→	R
P41,P42	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	DW	DRK

ALTERNATE PHASING TABLE OF OPERATION					
SIGNAL FACE	PHASE				
	2 + 5	2 + 6	3 + 7	4 + 7	F L A S H
21,22	G	G	R	R	R
41,43	←	←	←	←	←
42	→	R	→	→	R
51	←	→	←	←	←
61	R	↑	R	R	R
62	R	G	R	R	R
63	R	→	→	→	R
P41,P42	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	DW	DRK

MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	INITIAL	CALL	NEW CARD
2A	6X6	300	6	X	2	-	-	X	X	X	-
2B	6X6	300	6	X	2	-	-	X	X	X	-
5A	6X40	0	2-4-2	X	5	15.0*	-	X	-	X	-
5B	6X40	0	2-4-2	X	5	15.0	-	X	-	X	-
6A	6X6	300	6	X	6	-	-	X	X	X	-
6B	6X6	300	6	X	6	-	-	X	X	X	-
7A	6X40	0	2-4-2	X	7	-	-	X	-	X	-

* Disable delay during Alternate Phasing operation.
Disable Phase call for loop during Alternate Phasing operation.

4 Phase
Fully Actuated
(D09-32_Kernersville CLS)

NOTES

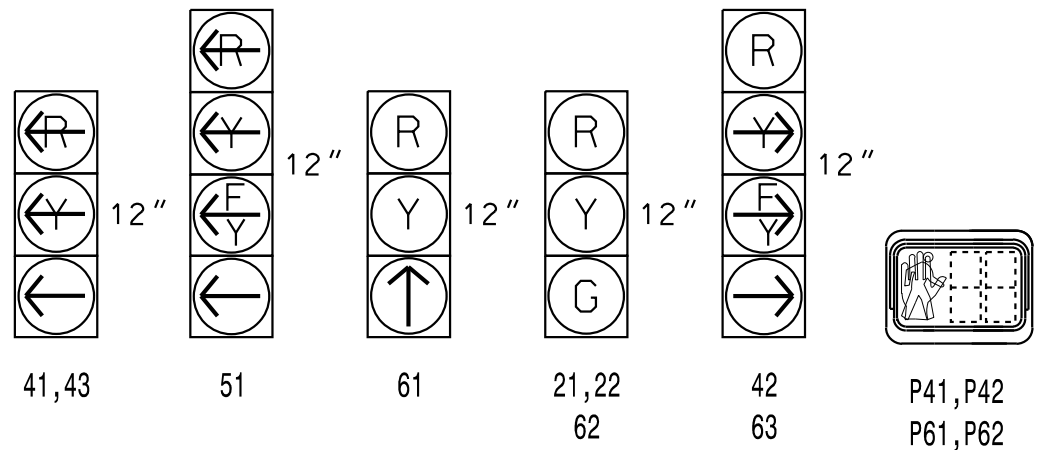
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Omit Phase 3 during Phase 4 on.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- To provide a leading pedestrian interval on Phase 6, program FYA heads 51 & 63 to delay for 7 seconds after the start of phase 6 Walk interval. See electrical details.
- All metal poles and pedestals shall be painted black as specified in the Project Special Provisions.

PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.



41,43

51

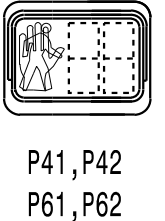
61

21,22

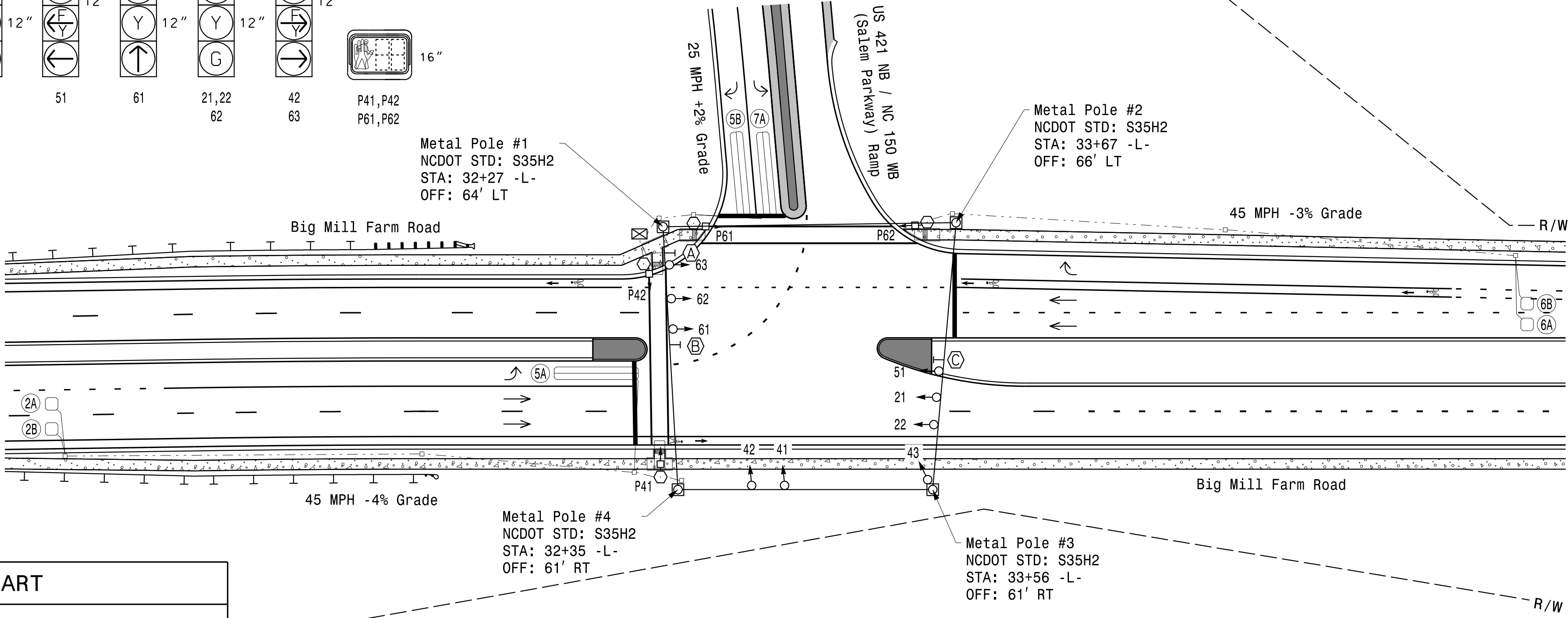
62

42

63



Metal Pole #1
NCDOT STD: S35H2
STA: 32+27 -L-
OFF: 64' LT



MAXTIME TIMING CHART

FEATURE	PHASE					
	2	3	4	5	6	7
Walk *	-	-	11	-	14	-
Ped Clear	-	-	22	-	27	-
Min Green *	12	7	7	7	12	7
Passage *	6.0	2.0	2.0	2.0	6.0	2.0
Max 1 *	90	40	40	25	90	40
Yellow Change	4.9	3.0	3.0	3.0	4.9	3.0
Red Clear	2.2	3.3	3.3	3.4	2.2	3.3
Added Initial *	1.5	-	-	-	2.5	-
Maximum Initial *	34	-	-	-	34	-
Time Before Reduction *	15	-	-	-	15	-
Time To Reduce *	45	-	-	-	45	-
Minimum Gap	3.0	-	-	-	3.0	-
Advance Walk	-	-	4	-	**	-
Non Lock Detector	-	X	X	X	-	X
Vehicle Recall	MIN RECALL	-	-	-	MIN RECALL	-
Dual Entry	-	X	-	-	-	X

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

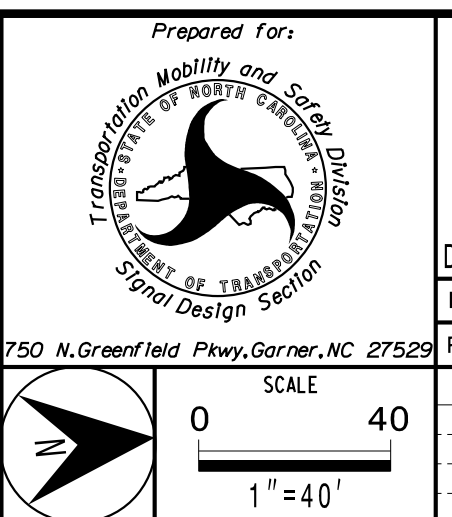
** See Note 11.

LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
● → Modified Signal Head	→ Sign
⊥ Pedestrian Signal Head	⊥ With Push Button & Sign
○ → Signal Pole with Guy	● → Signal Pole with Sidewalk Guy
⊠ Metal Strain Pole	⊠ Metal Strain Pole
○ Type II Signal Pedestal	● Type II Signal Pedestal
⊠ Inductive Loop Detector	⊠ Inductive Loop Detector
⊠ Controller & Cabinet	⊠ Junction Box
⊠ 2-in Underground Conduit	⊠ 2-in Underground Conduit
N/A Right of Way	--- Right of Way
N/A Directional Arrow	→ Directional Arrow
N/A Guardrail	⊥ Guardrail
N/A Curb Ramp	⊥ Curb Ramp
(A) "RIGHT TURN SIGNAL" Sign (R10-10R)	(A) "RIGHT TURN SIGNAL" Sign (R10-10R)
(B) No U-Turn/No Left Turn Sign (R3-18)	(B) No U-Turn/No Left Turn Sign (R3-18)
(C) "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	(C) "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)

New Installation

PLANS PREPARED IN THE OFFICE OF:
Kimley»Horn
NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
(919) 677-2000



Big Mill Farm Road at US 421 NB / NC 150 WB (Salem Parkway) Ramps	
Division 9	Forsyth County Kernersville
PLAN DATE: December 2024	REVIEWED BY: KP Baumann
PREPARED BY: CF Davis	REVIEWED BY:
REVISIONS	INIT. DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL	SEAL
PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER
SEAL 044434	SEAL 044434
KEVIN P. BAUMANN	KEVIN P. BAUMANN
SIGNATURE	SIGNATURE
DATE	DATE
8/4/2025	8/4/2025
SIG. INVENTORY NO.	09-0363