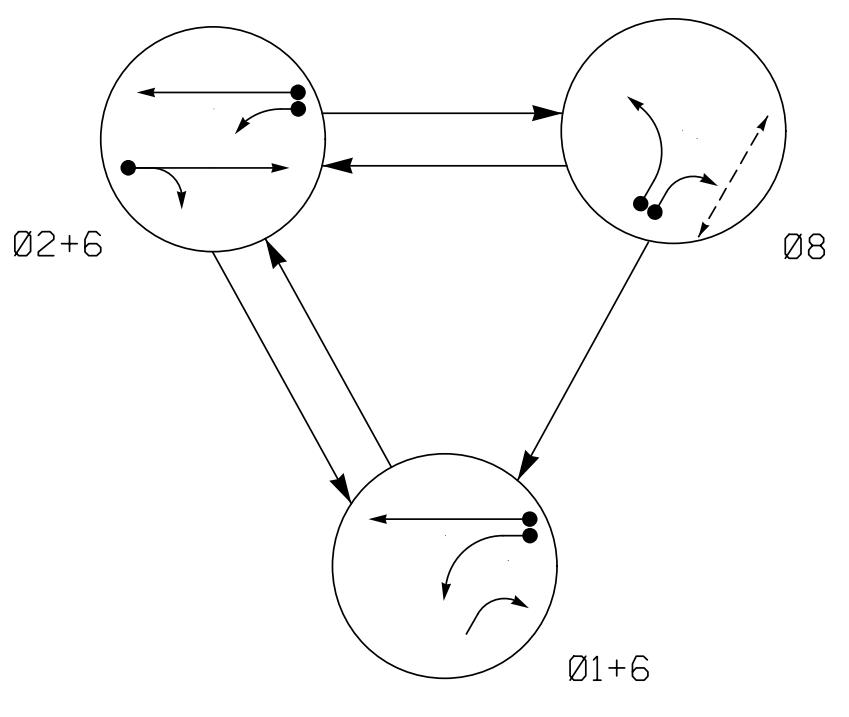


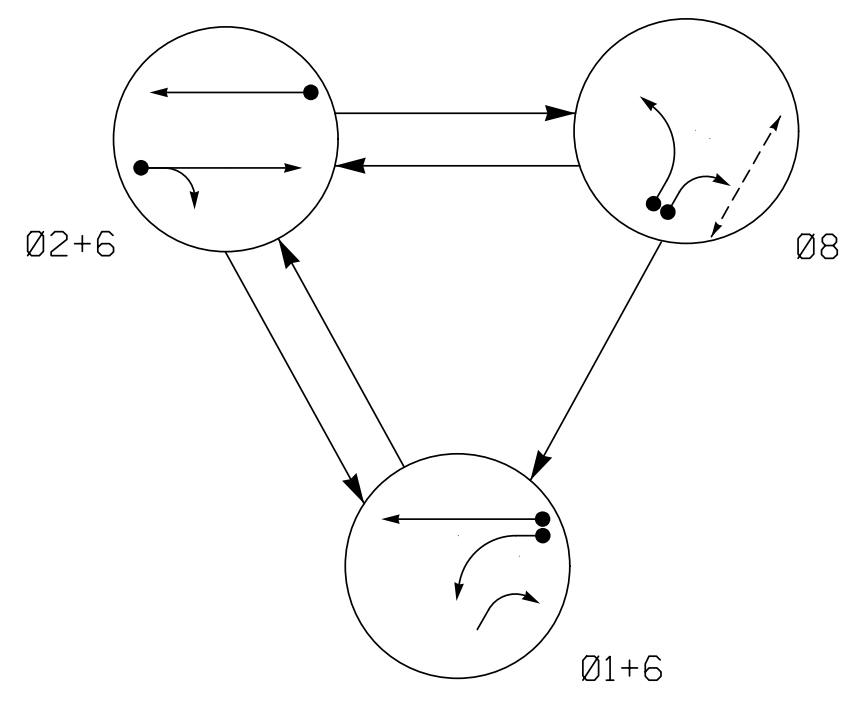
DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE			
	Ø 1 + 6	Ø 2 + 6	Ø 8	F L H O P B
11	←	←	←	←
21, 22, 23	R	G	R	Y
61	G	G	R	Y
62	↑	↑	R	Y
81	←	←	←	←
82, 83	←	R	←	R
P81, P82	DW	DW	W	DRK

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE			
	Ø 1 + 6	Ø 2 + 6	Ø 8	F L H O P B
11	←	←	←	←
21, 22, 23	R	G	R	Y
61	G	G	R	Y
62	↑	↑	R	Y
81	←	←	←	←
82, 83	←	R	←	R
P81, P82	DW	DW	W	DRK

MAXTIME DETECTOR INSTALLATION CHART

VIDEO	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW ZONE	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A	6X40	0	*	X	1	15.0*	-	X	-	X	-	X
2A	6X6	300	*	-	2	3.0	-	X	-	X	X	-
6A	6X6	300	*	-	6	-	-	X	X	X	-	-
8A	6X40	0	*	-	8	3.0	-	X	-	X	-	-
8B	6X40	0	*	-	8	-	-	X	-	X	-	X

* Disable Delay during Alternate Phasing operation.
 # Disable Phase call for zone during Alternate Phasing operation.
 * Video Detection

3 Phase Fully Actuated Isolated

NOTES

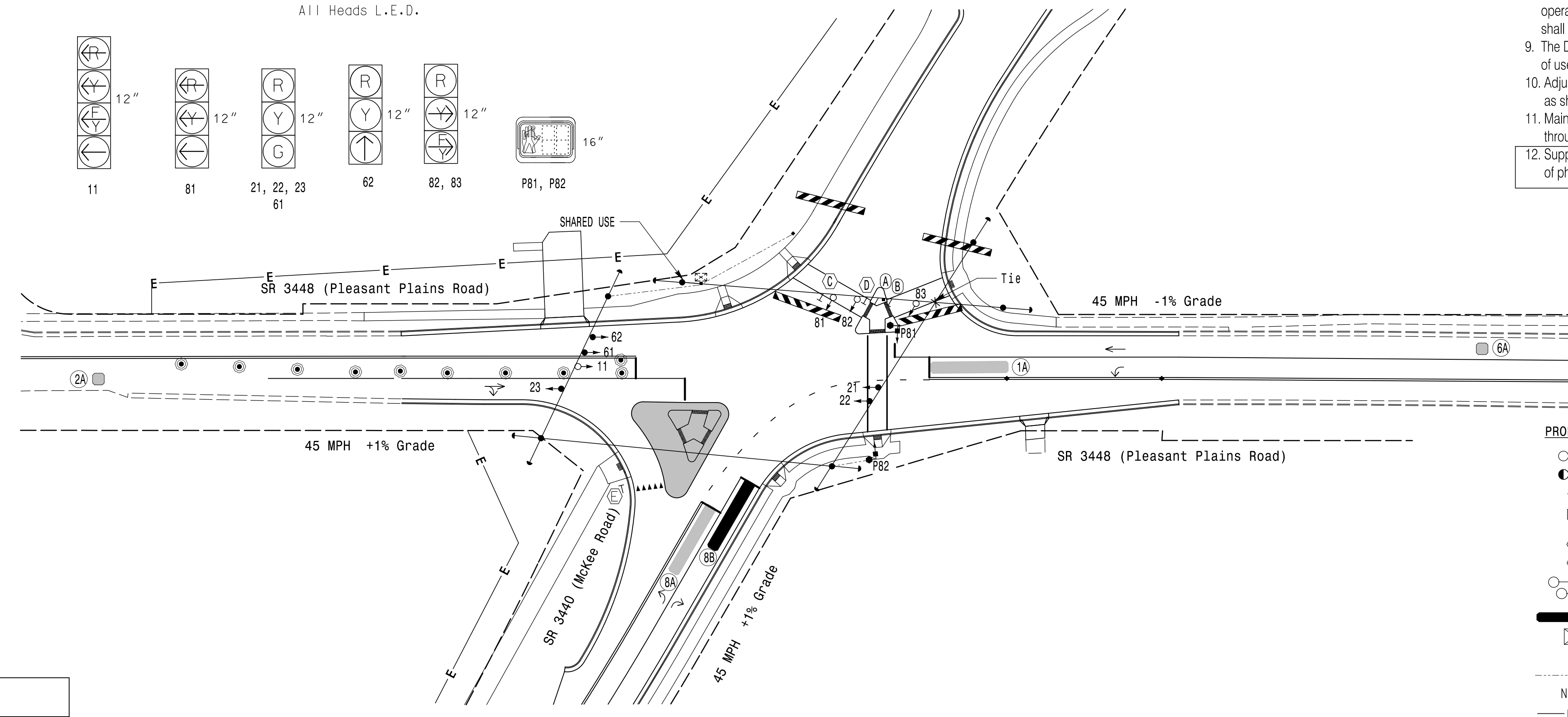
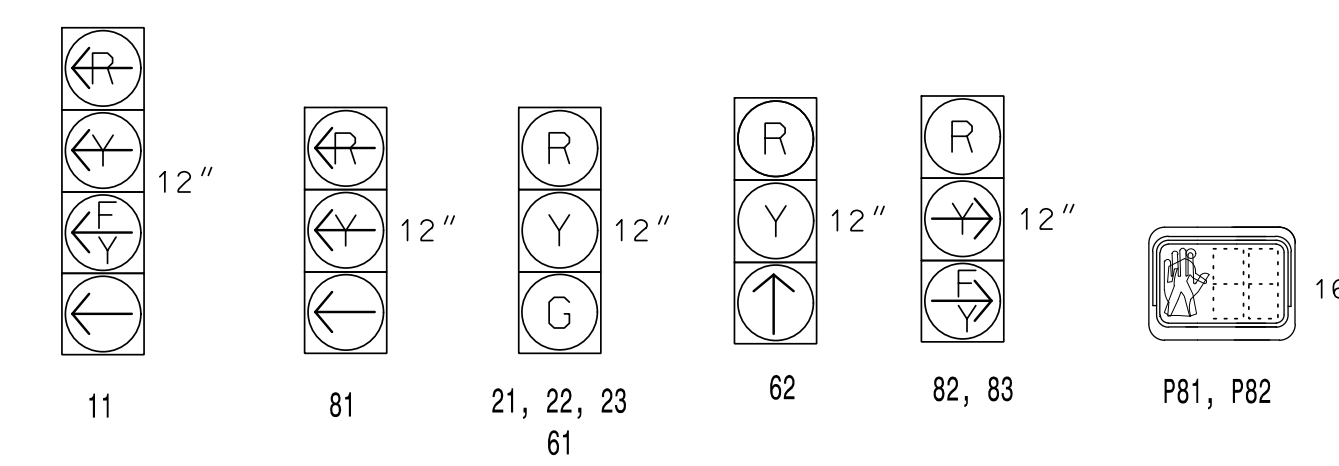
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 may be lagged.
- Reposition existing signal heads numbered 21, 22, and 23.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DONT WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Dont Walk" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Adjust Video Detection System to achieve detection zones as shown.
- Maintain access to pedestrian pushbuttons and ramps throughout construction.
- Suppress FYA for signal heads 82 and 83 during first 7 seconds of phase 4 ped.

PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.



LEGEND

- | PROPOSED | EXISTING |
|--|----------|
| ○ → Traffic Signal Head | ● → N/A |
| ● → Modified Signal Head | ○ → N/A |
| ↓ Pedestrian Signal Head | ↓ N/A |
| ⊕ With Push Button & Sign | ⊕ N/A |
| ⊕ Type I Pushbutton Post | ⊕ N/A |
| ○ Type II Signal Pedestal | ○ N/A |
| ⊕ Signal Pole with Guy | ⊕ N/A |
| ⊕ Signal Pole with Sidewalk Guy | ⊕ N/A |
| ▬ Non-Intrusive Detector Zones | ▬ N/A |
| ⊠ Controller & Cabinet | ⊠ N/A |
| □ Junction Box | □ N/A |
| --- 2-in Underground Conduit | --- N/A |
| N/A Right of Way | --- N/A |
| — Easement | — E |
| → Directional Arrow | → E |
| ▬ Construction Zone | ▬ N/A |
| ● Construction Zone Drums | ● N/A |
| N/A Curb Ramp | ▲ N/A |
| (A) "TURNING VEHICLES YIELD TO PEDS" Sign (R10-15) | (A) N/A |
| (B) "NO TURN ON RED" Sign (R10-11) | (B) N/A |
| (C) Left Arrow "ONLY" Sign (R3-5L) | (C) N/A |
| (D) Right Arrow "ONLY" Sign (R3-5R) | (D) N/A |
| (E) "YIELD" Sign (R1-2) | (E) N/A |

MAXTIME TIMING CHART

FEATURE	PHASE			
	1	2	6	8
Walk *	-	-	-	14
Ped Clear	-	-	-	13
Min Green *	7	12	12	7
Passage *	2.0	6.0	6.0	2.0
Max 1 *	30	90	90	30
Yellow Change	3.0	4.6	4.6	3.0
Red Clear	3.1	1.5	1.5	3.3
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	15	15	-
Time To Reduce *	-	30	30	-
Minimum Gap	-	3.0	3.0	-
Advance Walk	-	-	-	7
Non Lock Detector	-	-	-	X
Vehicle Recall	-	MIN RECALL	MIN RECALL	-
Dual Entry	-	-	-	-

* 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. Do not adjust walk time for phase 8 lower than what is shown.

Signal Upgrade - Temporary Design 4 (TMP Phase 5)

<p>PLANS PREPARED IN THE OFFICE OF: Kimley-Horn NC License #0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 (919) 677-2000</p>	Prepared For: <p>SR 3448 (Pleasant Plains Road) at SR 3440 (McKee Road)</p>	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
	Division 10 Mecklenburg County Matthews PLAN DATE: August 2023 REVIEWED BY: SL Phillips PREPARED BY: SP Pennington REVIEWED BY:	REVISIONS:

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