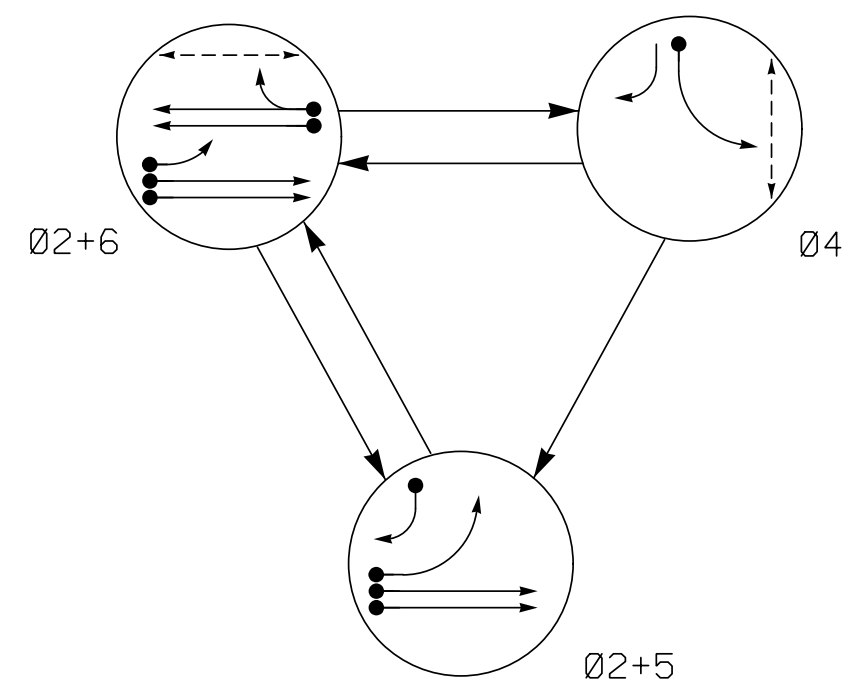


**DEFAULT PHASING DIAGRAM**



**DEFAULT PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE			
	Ø 2 + 5	Ø 2 + 6	Ø 4	FLASH
21,22	G	G	R	Y
41	R	R	G	R
42	R	R	G	R
51	←	←	←	←
61,62	R	G	R	Y
P41,P42	DW	DW	W	DRK
P61,P62	DW	W	DRK	

ASC/3 DETECTOR INSTALLATION CHART												
DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
2A/S30	6x6	250	5	-	2	Yes	-	-	X	N	X	X
2B/S31	6x6	250	5	-	2	Yes	-	-	X	N	X	X
4A	6x40	0	2-4-2	-	4	Yes	-	3	-	S	-	X
5A	6x40	0	2-4-2	-	5	Yes	-	*15	-	S	-	X
5B	6x40	0	2-4-2	-	5	Yes	-	15	-	S	-	X
6A/S36	6x6	250	6	-	6	Yes	-	-	X	N	X	X
6B/S37	6x6	250	6	-	6	Yes	-	-	X	N	X	X
S38	6x6	+130	3	-	-	No	-	-	-	N	X	X
S39	6x6	+130	3	-	-	No	-	-	-	N	X	X

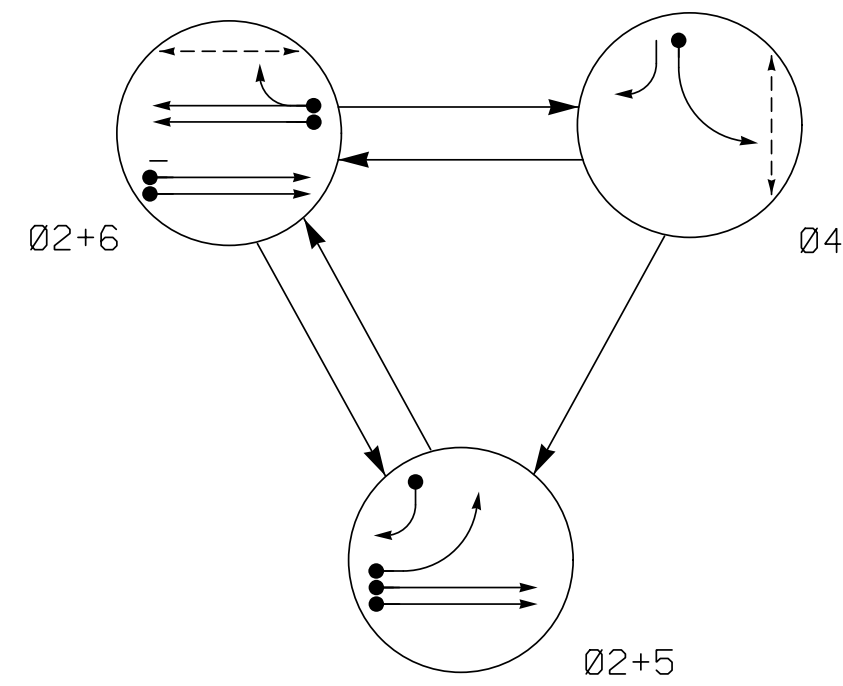
\* Disable delay during Alternate Phasing Operation.  
# Disable Phase Call for Loop during Alternate Phasing Operation.

3 Phase Fully Actuated  
SR 1007 (Mebane Oaks Rd) CLS  
Signal System: 10705

**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.
- 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.
- Pavement markings are existing.
- 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.
- Closed loop system data: Controller Asset #: 2146.

**ALTERNATE PHASING DIAGRAM**



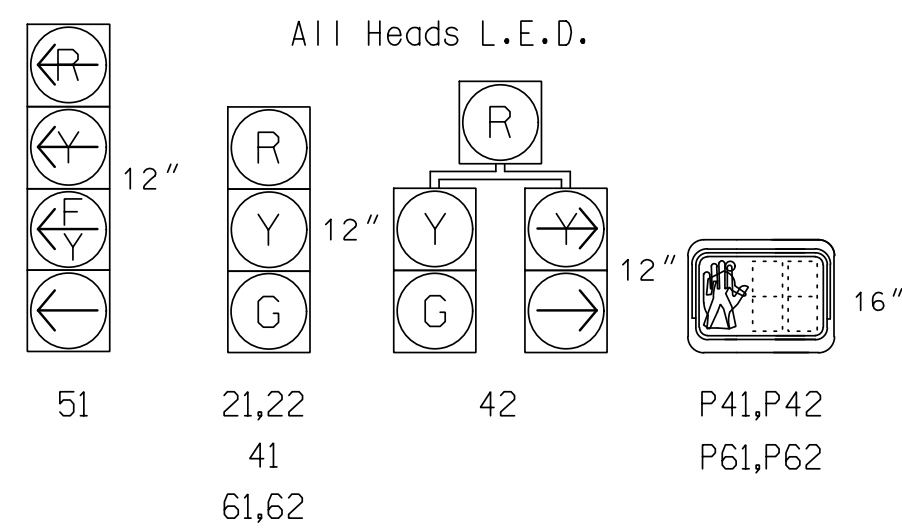
**ALTERNATE PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE			
	Ø 2 + 5	Ø 2 + 6	Ø 4	FLASH
21,22	G	G	R	Y
41	R	R	G	R
42	R	R	G	R
51	←	←	←	←
61,62	R	G	R	Y
P41,P42	DW	DW	W	DRK
P61,P62	DW	W	DRK	

**PHASING DIAGRAM DETECTION LEGEND**

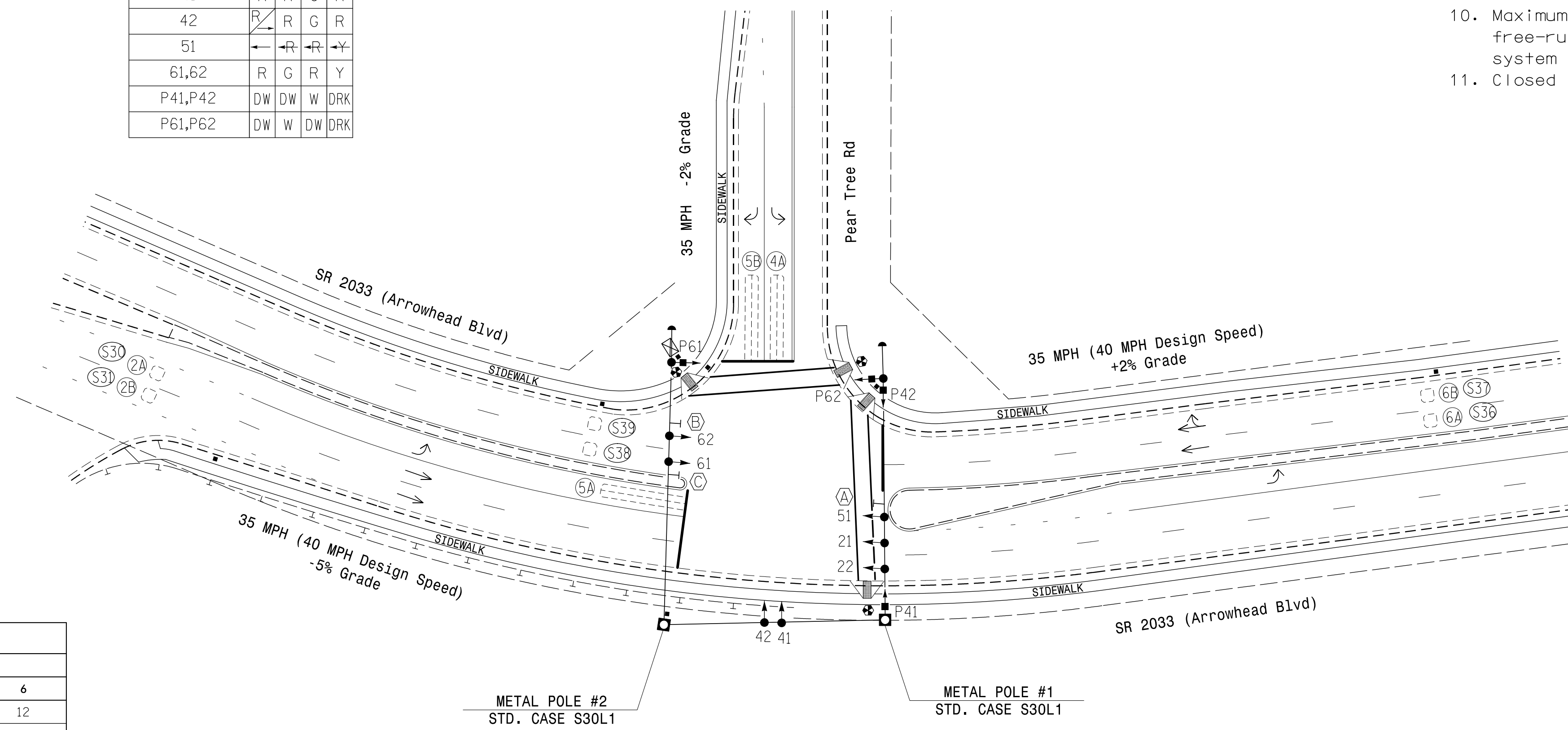
- DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ← UNSIGNALIZED MOVEMENT
- ← PEDESTRIAN MOVEMENT

**SIGNAL FACE I.D.**



FEATURE	PHASE			
	2	4	5	6
Min Green *	12	7	7	12
Walk *	0	4	0	7
Ped Clear	0	20	0	15
Veh. Extension *	6.0	2.0	2.0	6.0
Max I *	90	25	20	90
Yellow	4.6	3.0	3.1	4.6
Red Clear	1.5	3.1	2.8	1.5
Red Revert	2.0	2.0	2.0	2.0
Actuations B4 Add *	0	-	-	0
Seconds /Actuation *	1.5	-	-	1.5
Max Initial *	29	-	-	29
Time Before Reduction *	30	-	-	30
Time To Reduce *	45	-	-	45
Minimum Gap	3.0	-	-	3.0
Locking Detector	X	-	-	X
Recall Position	VEH. RECALL	-	-	VEH. RECALL
Dual Entry	-	-	-	-
Simultaneous Gap	X	X	X	X

\* 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.

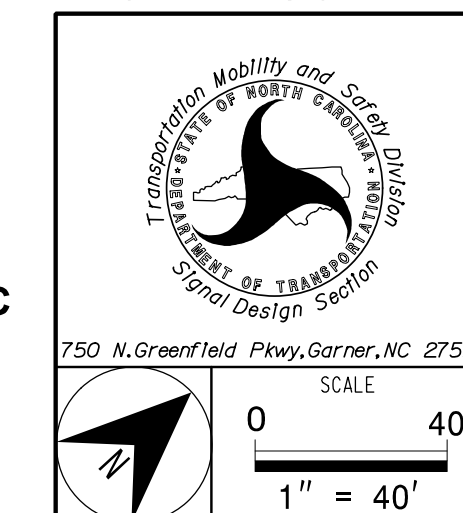


PROPOSED	LEGEND	EXISTING
○	Traffic Signal Head	●
○	Sign	○
○	Pedestrian Signal Head With Push Button & Sign	○
○	Signal Pole with Guy	○
○	Inductive Loop Detector	○
□	Controller & Cabinet	□
□	Junction Box	□
□	2-in Underground Conduit	□
N/A	Right of Way	---
→	Directional Arrow	→
○	Metal Strain Pole	○
⊗	Type 1 Pushbutton Post	⊗
N/A	Curb Ramp	▲
⊕	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	⊕
⊕	Right "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15R)	⊕
⊕	No U Turn Sign (R3-4)	⊕

**ASC/3 TIMING CHART**

FEATURE	PHASE			
	2	4	5	6
Min Green *	12	7	7	12
Walk *	0	4	0	7
Ped Clear	0	20	0	15
Veh. Extension *	6.0	2.0	2.0	6.0
Max I *	90	25	20	90
Yellow	4.6	3.0	3.1	4.6
Red Clear	1.5	3.1	2.8	1.5
Red Revert	2.0	2.0	2.0	2.0
Actuations B4 Add *	0	-	-	0
Seconds /Actuation *	1.5	-	-	1.5
Max Initial *	29	-	-	29
Time Before Reduction *	30	-	-	30
Time To Reduce *	45	-	-	45
Minimum Gap	3.0	-	-	3.0
Locking Detector	X	-	-	X
Recall Position	VEH. RECALL	-	-	VEH. RECALL
Dual Entry	-	-	-	-
Simultaneous Gap	X	X	X	X

**Signal Upgrade**



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**SR 2033 (Arrowhead Boulevard) at Pear Tree Road**  
Division 7 Alamance County Mebane  
PLAN DATE: November 2019 REVIEWED BY: Z. "Gavin" Teng  
PREPARED BY: Z. "Gavin" Teng REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

PROFESSIONAL ENGINEER

SEAL 032179

HAO LONG TENG

12/17/2019

SIG. INVENTORY NO. 07-2146