

PHASING DIAGRAM DETECTION LEGEND

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

EV PREEMPT PHASES
(Medium Priority)

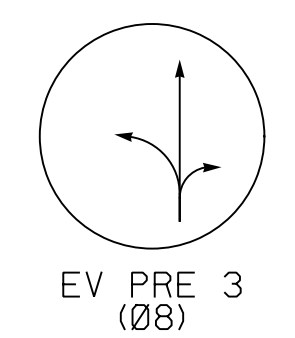
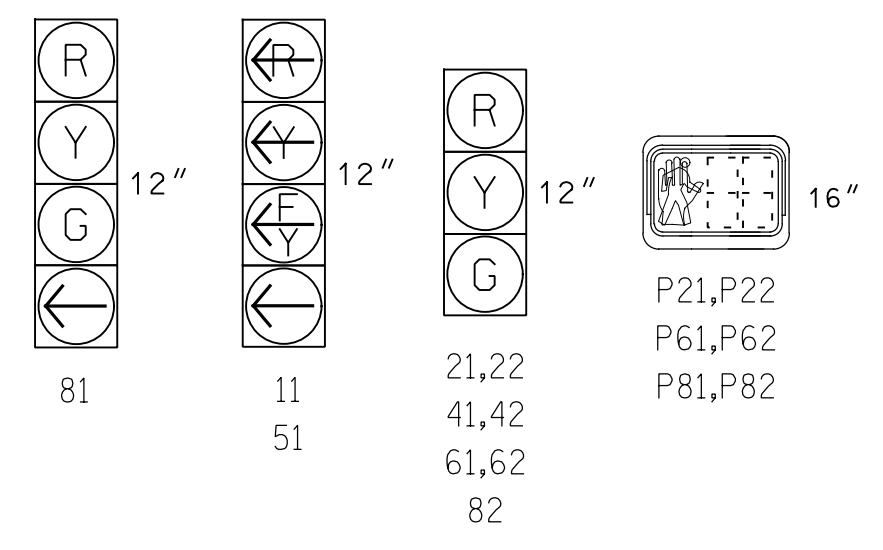


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+8	Ø4+8	Ø4+8	Ø4+8
11	←	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	R	Y	Y
41, 42	R	R	R	R	G	R	R	Y
51	←	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	R	Y	Y
81	R	R	R	R	G	G	R	Y
82	R	R	R	R	G	G	R	Y
P21, P22	DW	DW	W	W	DW	DW	DRK	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK	DRK
P81, P82	DW	DW	DW	DW	W	W	DRK	DRK

SIGNAL FACE I.D.
All Heads L.E.D.



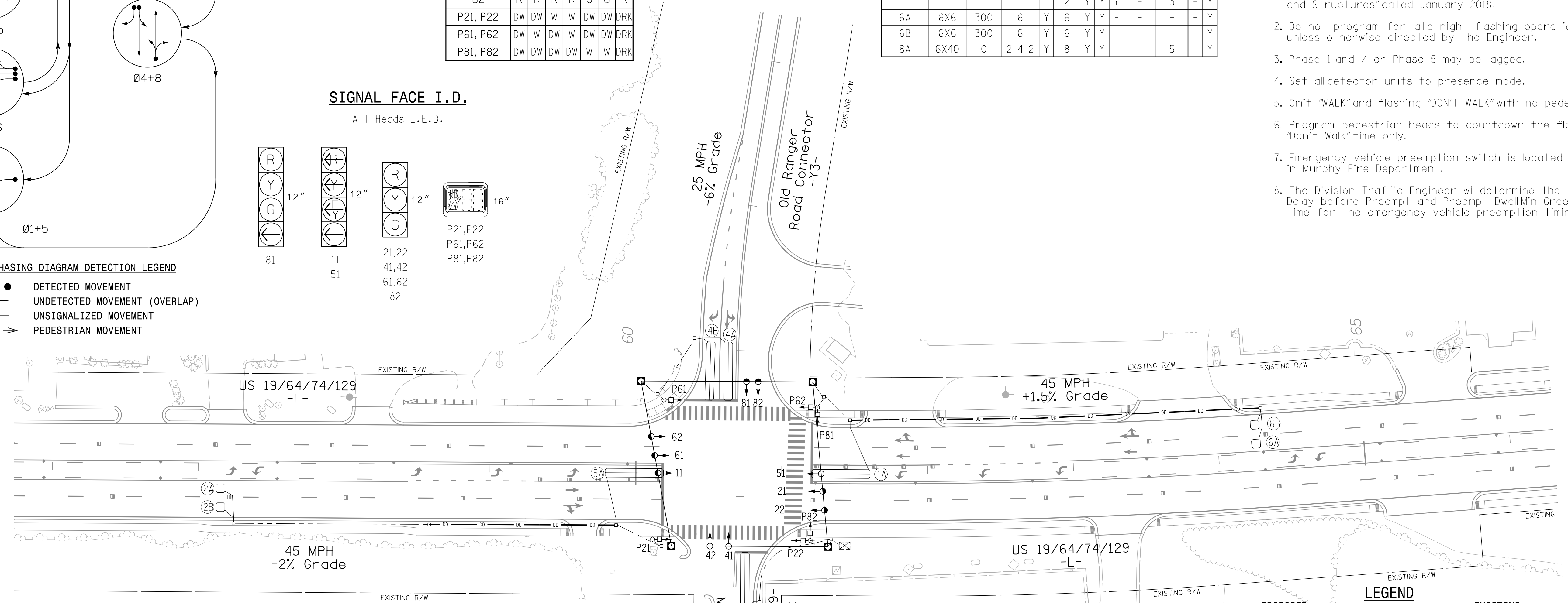
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	STRETCH TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	-	Y
2A	6X6	300	6	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	300	6	Y	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	Y
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	15	-	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-	Y
6A	6X6	300	6	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	300	6	Y	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	5	-	Y

5 Phase Fully Actuated w/ Fire Preemption Isolated

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and / or Phase 5 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Emergency vehicle preemption switch is located in Murphy Fire Department.
- The Division Traffic Engineer will determine the delay before Preempt and Preempt Dwell/Min Green time for the emergency vehicle preemption timing.

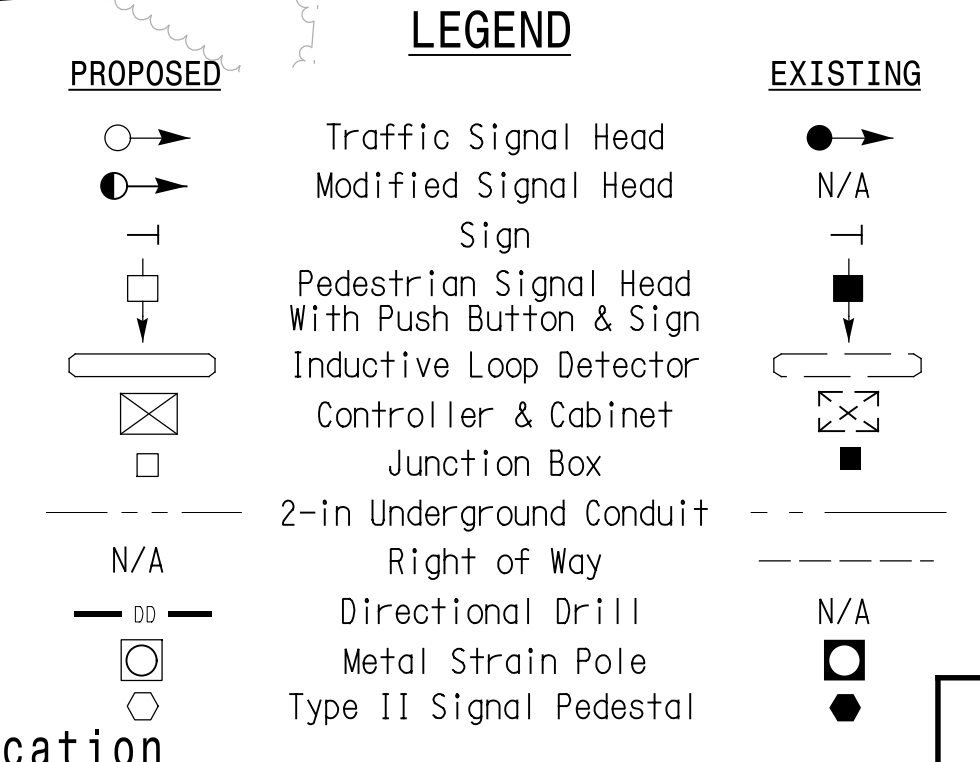


OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0
Max Green 1 *	15	90	20	15	90	20
Yellow Clearance	3.0	4.6	3.5	3.0	4.6	3.5
Red Clearance	2.4	1.4	2.6	2.4	1.4	2.6
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	4	-	-	4	4
Don't Walk 1	-	19	-	-	20	20
Seconds Per Actuation *	-	1.5	-	-	1.5	-
Max Variable Initial *	-	34	-	-	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	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON	ON

OASIS 2070 EV PREEMPT

FUNCTION	PRE 3
Interval 1 - Dwell Green	255
Interval 1 - Dwell Yellow	0.0*
Interval 1 - Dwell Red	0.0*
Interval 5 - Exit Green	1
Interval 5 - Yellow	0.0
Interval 5 - Red	0.0
Exit Phase(s)	2+6
Priority	Medium
Delay Time	**
Min Green Before Pre	1
Ped Clear Before Pre	0
Yellow Clear Before Pre	0.0*
Red Clear Before Pre	0.0*
Dwell Min Time	**
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	-
Preempt Extend	-



Signal Modification

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US 19/64/74/129
at
Marks Drive/
Old Ranger Road Connector

Division 14 Cherokee County Near Murphy

PLAN DATE: January 2019 REVIEWED BY: Z HARRIS

PREPARED BY: K M CORY REVIEWED BY:

SEAL

PROFESSIONAL ENGINEER

SEAL 038970

KELLY M. CORY

2/28/2019

SIG. INVENTORY NO. 14-1303

28-FEB-2019 10:49 R:\P\01\fact\m\001\19-5735\19-5735\19-5735_S1(1)-02-01.dgn KMCORY AT CARY\KMCORY

* 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.

* Time defaults to time used for phase during normal operation ** See note 8.