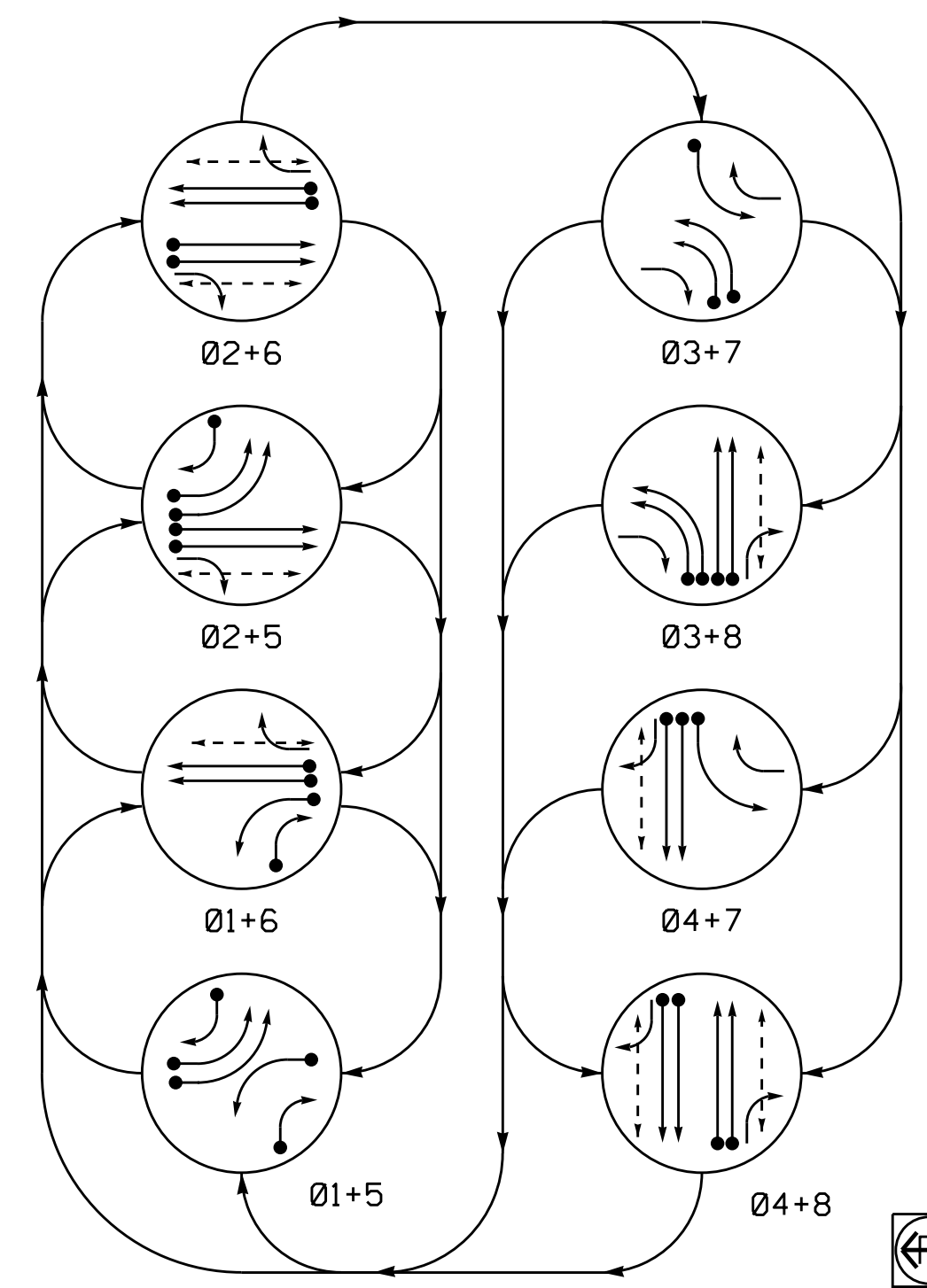
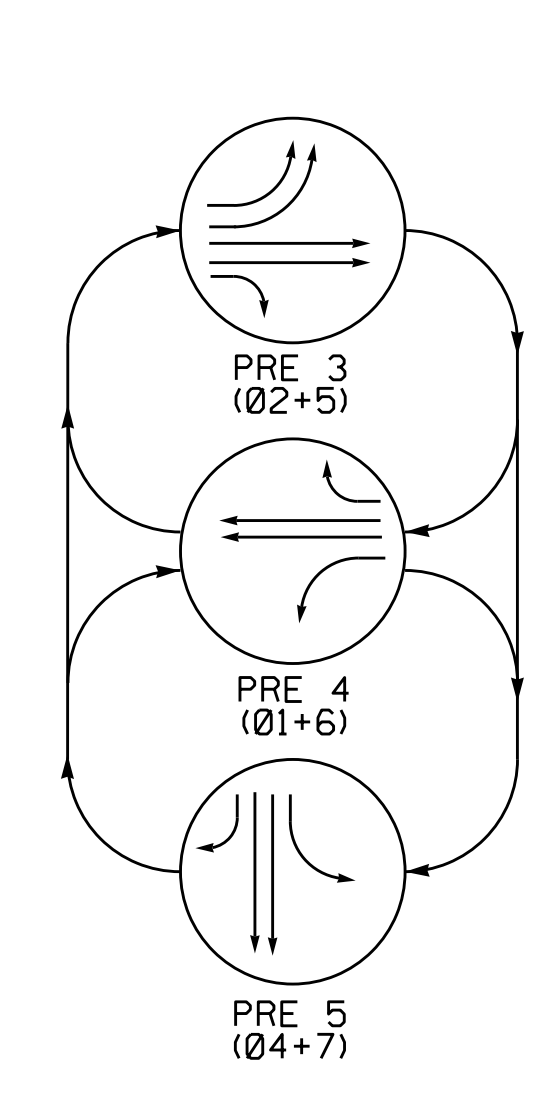


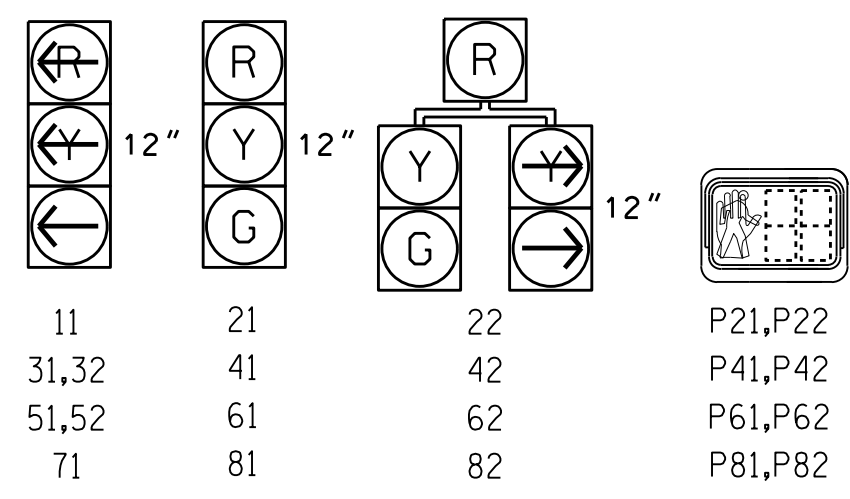
PHASING DIAGRAM



EV PREEMPT PHASES (Medium Priority)



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



PHASING DIAGRAM DETECTION LEGEND

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

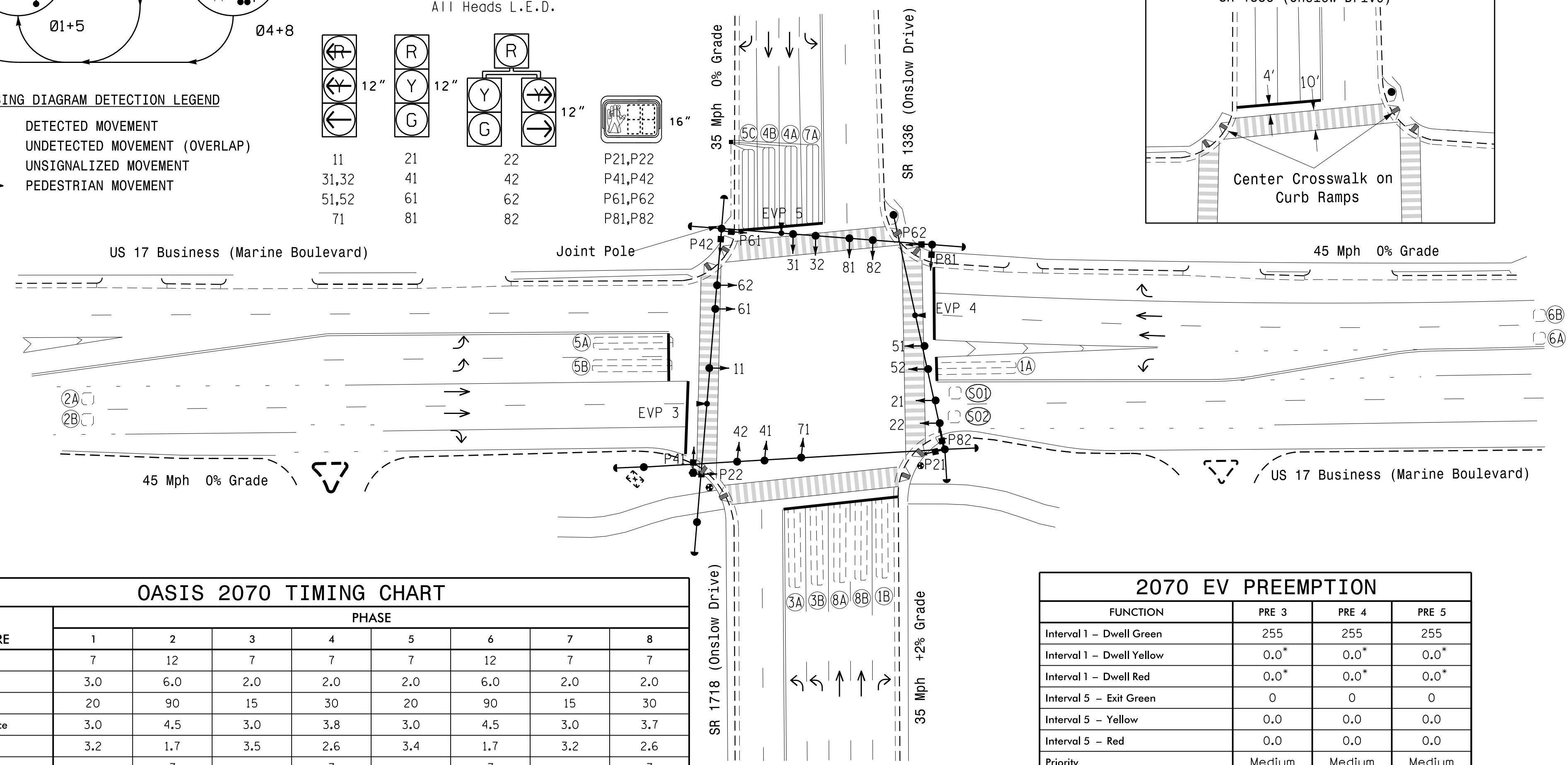
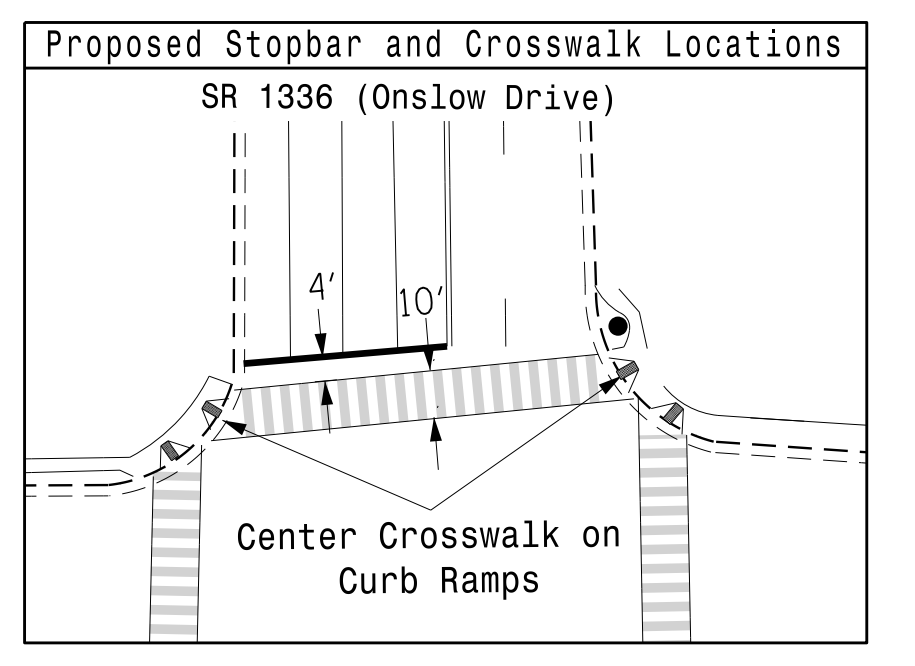
SIGNAL FACE	PHASE														
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	PRE 3	PRE 4	PRE 5	S01	S02	P	
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	R	R	G	G	R	R	R	R	G	R	R	Y	Y	Y	Y
22	R	R	G	G	R	R	R	R	G	R	R	Y	Y	Y	Y
31, 32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
41	R	R	R	R	R	R	G	G	R	R	G	R	R	R	R
42	R	R	R	R	R	R	G	G	R	R	G	R	R	R	R
51, 52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
61	R	G	R	G	R	R	R	R	R	G	R	Y	Y	Y	Y
62	R	G	R	G	R	R	R	R	R	G	R	Y	Y	Y	Y
71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
81	R	R	R	R	R	R	G	G	R	R	R	R	R	R	R
82	R	R	R	R	R	R	G	G	R	R	R	R	R	R	R
P21, P22	DW	DW	W	W	DW	DW	DW	DW	DW	DW	DW	DRK	DRK	DRK	DRK
P41, P42	DW	DW	DW	DW	DW	DW	W	W	DW	DW	DW	DRK	DRK	DRK	DRK
P61, P62	DW	W	DW	W	DW	DW	DW	DW	DW	DW	DW	DRK	DRK	DRK	DRK
P81, P82	DW	DW	DW	DW	W	DW	W	DW	DW	DW	DW	DRK	DRK	DRK	DRK

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART													
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING						SYSTEM LOOP NEW CARD		
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME			
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	3	-	-	-
1B	6X40	0	2-4-2	-	1	Y	Y	-	-	15	-	-	-
2A,2B	6X6	300	4	-	2	Y	Y	-	-	-	-	-	-
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	3	-	-	-
3B	6X40	0	2-4-2	-	3	Y	Y	-	-	-	-	-	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	-	-
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	-	-
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	3	-	-	-
5B	6X40	0	2-4-2	-	5	Y	Y	-	-	-	-	-	-
5C	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-	-	-
6A,6B	6X6	300	5	-	6	Y	Y	-	-	-	-	-	-
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	3	-	-	-
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	-	-	-	-
8B	6X40	0	2-4-2	-	8	Y	Y	-	-	-	-	-	-
S01	6X6	+130	5	-	-	-	-	-	-	-	Y	-	-
S02	6X6	+130	5	-	-	-	-	-	-	-	Y	-	-

8 Phase Fully Actuated W/ EV Preemption Jacksonville Signal System

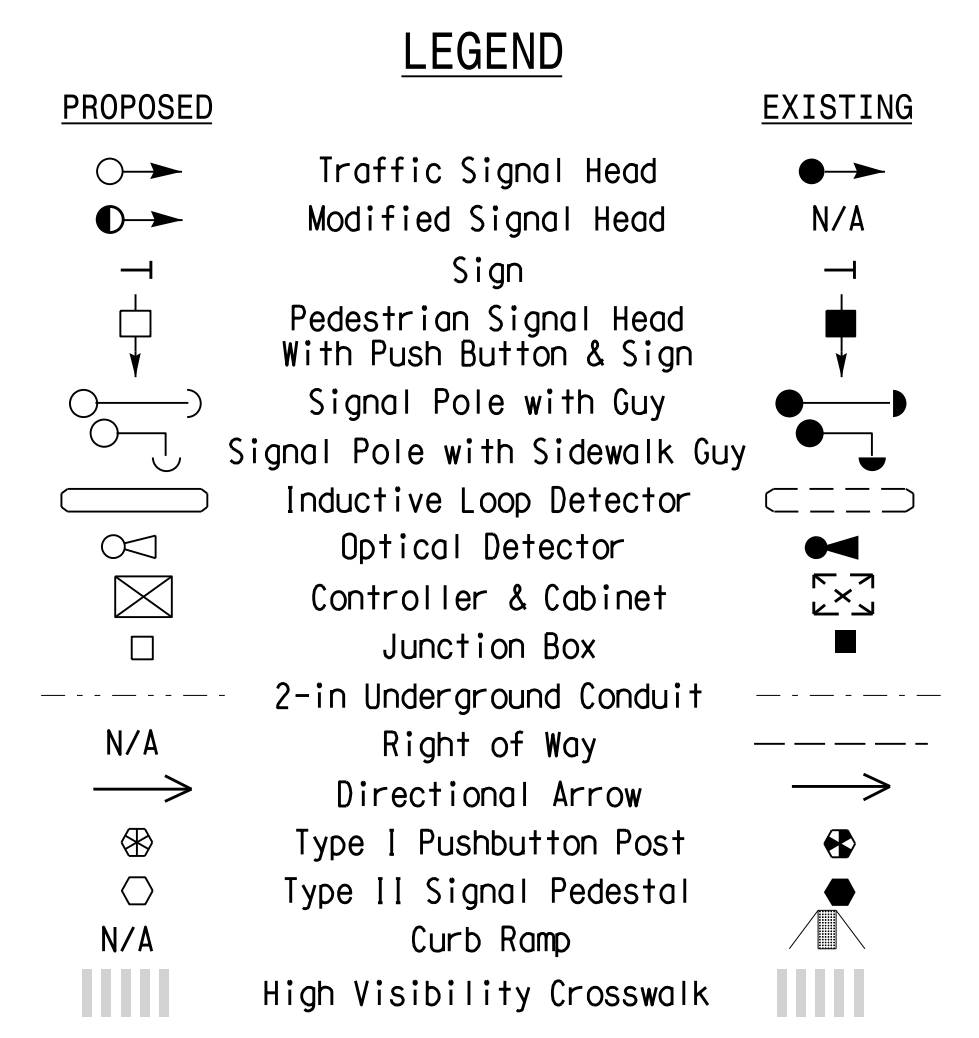
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
10. Controller Asset #0091.



FEATURE	OASIS 2070 TIMING CHART							
	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	3.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	20	90	15	30	20	90	15	30
Yellow Clearance	3.0	4.5	3.0	3.8	3.0	4.5	3.0	3.7
Red Clearance	3.2	1.7	3.5	2.6	3.4	1.7	3.2	2.6
Walk 1 *	-	7	-	7	-	7	-	7
Don't Walk 1	-	21	-	25	-	20	-	25
Seconds Per Actuation *	-	2.0	-	-	-	2.0	-	-
Max Variable Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	45	-	-	-	45	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	ON	ON	ON	ON

FUNCTION	2070 EV PREEMPTION		
	PRE 3	PRE 4	PRE 5
Interval 1 - Dwell Green	255	255	255
Interval 1 - Dwell Yellow	0.0*	0.0*	0.0*
Interval 1 - Dwell Red	0.0*	0.0*	0.0*
Interval 5 - Exit Green	0	0	0
Interval 5 - Yellow	0.0	0.0	0.0
Interval 5 - Red	0.0	0.0	0.0
Priority	Medium	Medium	Medium
Delay Time	0.0	0.0	0.0
Min Green Before Pre	1	1	1
Ped Clear Before Pre	0 *	0 *	0 *
Yellow Clear Before Pre	0.0*	0.0*	0.0*
Red Clear Before Pre	0.0*	0.0*	0.0*
Dwell Min Time	12	12	7
Enable Backup Protection	N	N	N
Ped. Clear Through Yellow	Y	Y	Y
Preempt Extend**	2	2	2
Omit Overlaps	B	A	D



* 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
** Program Timing on Optical Detection Unit

Signal Upgrade

US 17 Bus. (Marine Boulevard) at SR 1336/1718 (Onslow Dr)

Division 3 Onslow County Jacksonville

PLAN DATE: October 2016 REVIEWED BY: M.E. Giles, PE

PREPARED BY: EM Minshew REVIEWED BY:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

MEGHAN E. GILES

10-20-16

DATE

SIG. INVENTORY NO. 03-0091