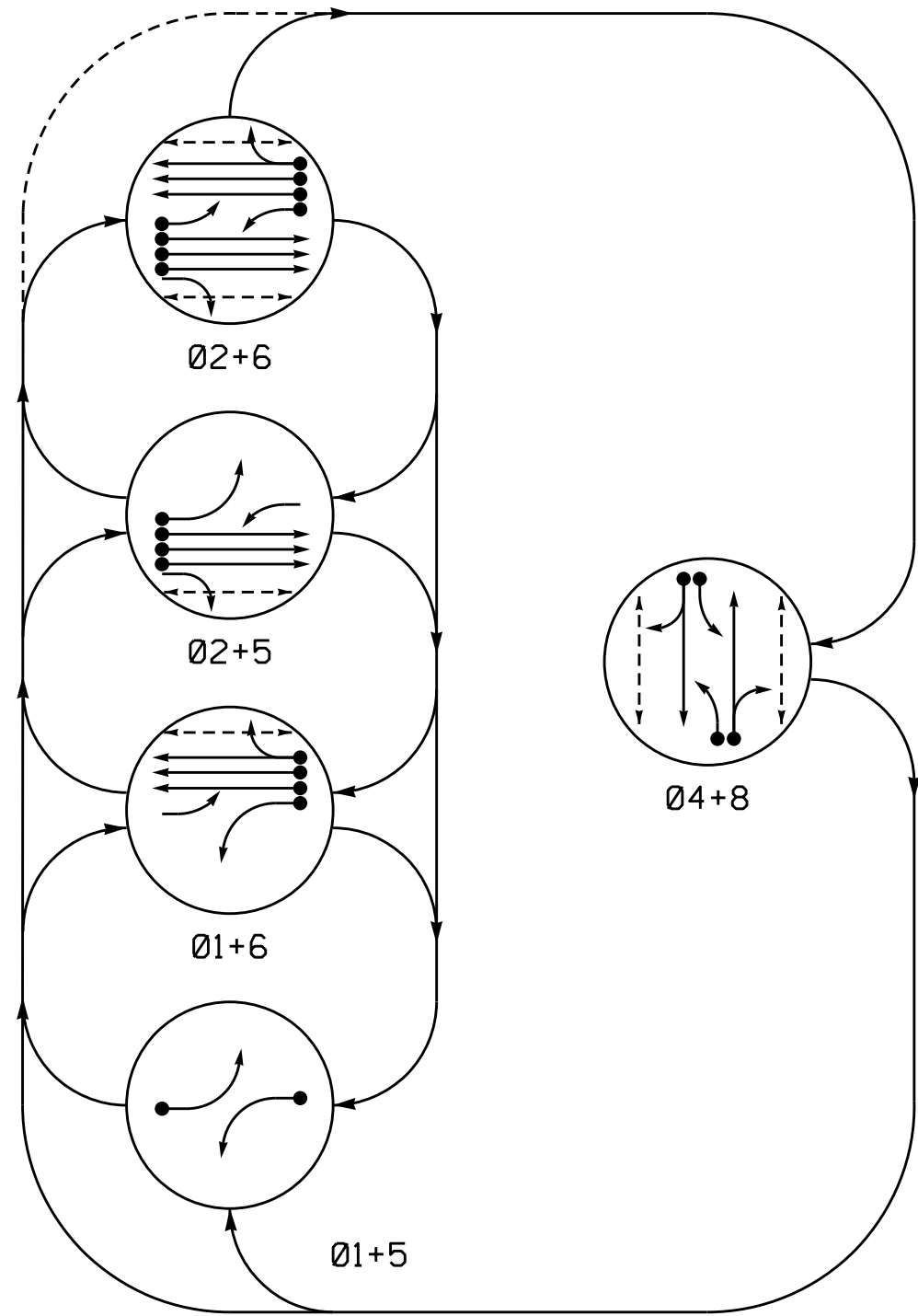


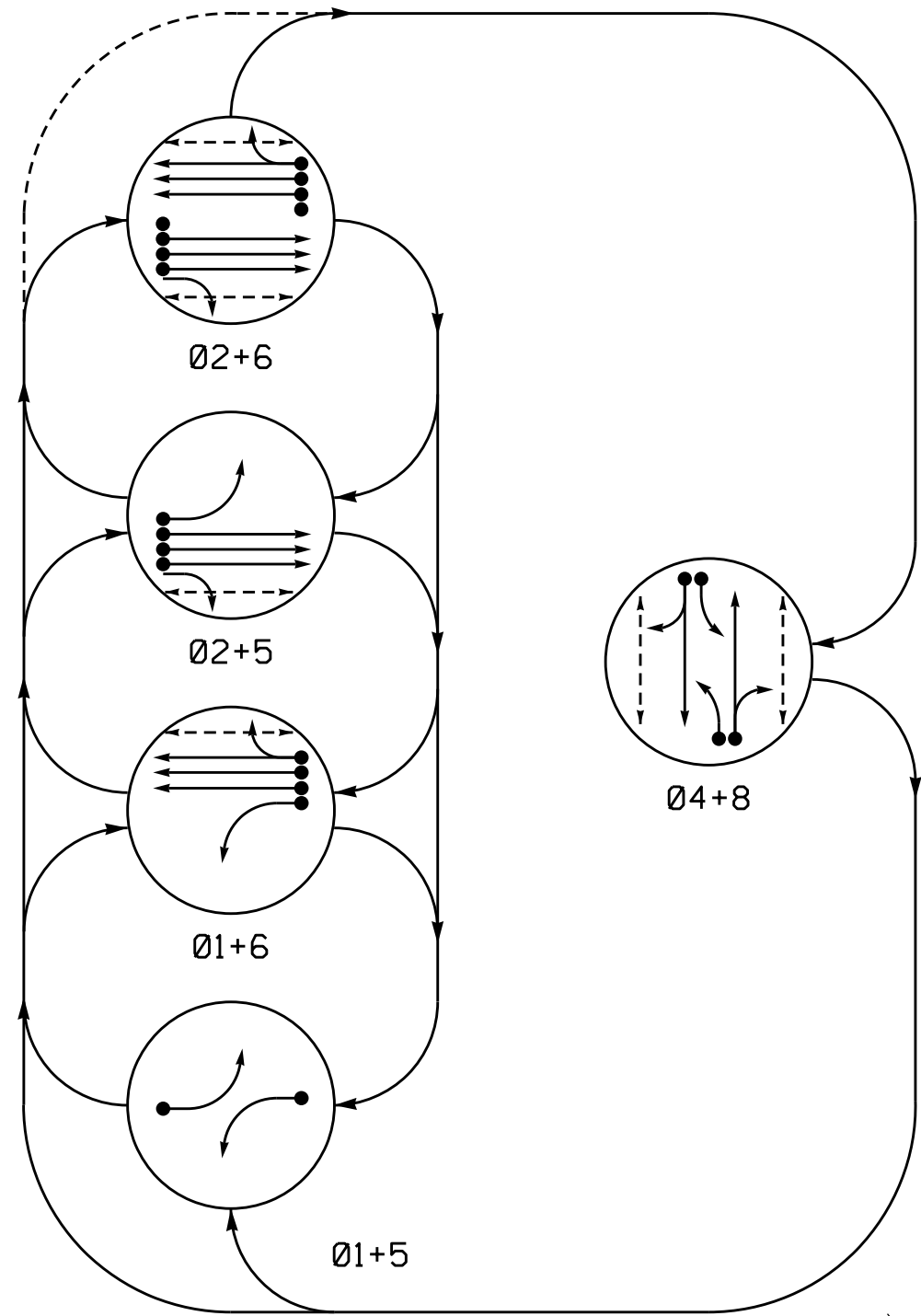
DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	F HOLD
11	---	---	---	---	---	---
21,22,23	R	R	G	G	R	Y
41	R	R	R	R	F	R
42,43,44	R	R	R	R	G	R
51	---	---	---	---	---	---
61,62,63	R	G	R	G	R	Y
81	R	R	R	R	F	R
82,83,84	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	F HOLD
11	---	---	---	---	---	---
21,22,23	R	R	G	G	R	Y
41	R	R	R	R	F	R
42,43,44	R	R	R	R	G	R
51	---	---	---	---	---	---
61,62,63	R	G	R	G	R	Y
81	R	R	R	R	F	R
82,83,84	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

OASIS 2070 LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	STRETCH TIME			DELAY TIME
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
2C	6X6	300	6	Y	2	Y	Y	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	3	-
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	10	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15*	-
6A	6X6	300	5	Y	6	Y	Y	-	-	-	Y
6B	6X6	300	5	Y	6	Y	Y	-	-	-	Y
6C	6X6	300	5	Y	6	Y	Y	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	3	-
8B	6X40	0	2-4-2	Y	8	Y	Y	-	-	10	-
S1	6X6	+125	4	Y	-	-	-	-	-	-	Y
S2	6X6	+125	4	Y	-	-	-	-	-	-	Y
S3	6X6	+125	4	Y	-	-	-	-	-	-	Y

\* Reduce delay to 3 seconds during Alternate Phasing operation.  
 \*\* Disable phase call for loop(s) during Alternate Phasing operation.

5 Phase Fully Actuated (High Point Signal System)

NOTES

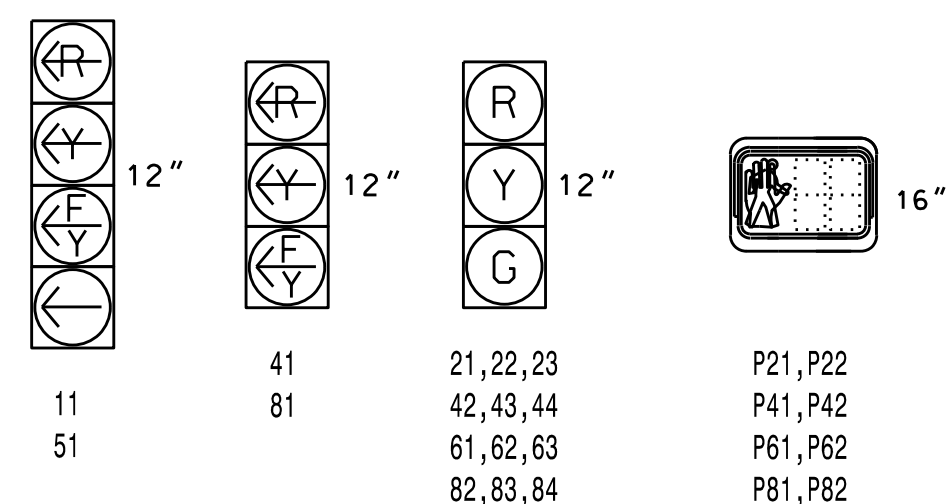
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or 5 may be lagged.
- Set all detector units to 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.
- The Division (City) 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.
- The Division (City) Traffic Engineer will determine the hours of use for the special events beacon.

PHASING DIAGRAM DETECTION LEGEND

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

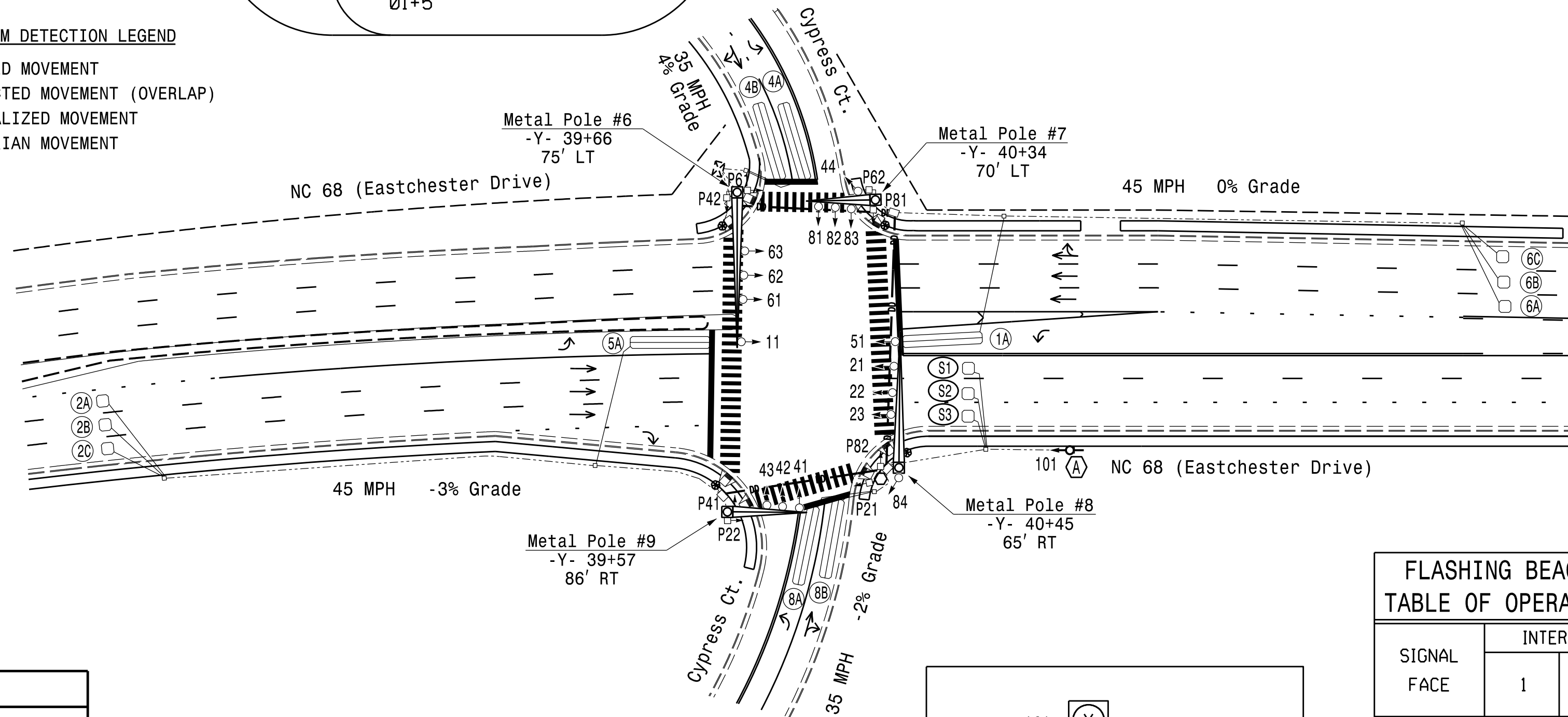
SIGNAL FACE I.D.

All Heads L.E.D.



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*	20	90	30	20	90	30
Yellow Clearance	3.0	4.8	4.1	3.0	4.8	4.1
Red Clearance	3.1	1.6	3.0	3.1	1.6	3.0
Walk 1*	-	7	4	-	7	4
Don't Walk 1	-	11	31	-	9	26
Seconds Per Actuation*	-	1.0	-	-	1.0	-
Max Variable Initial*	-	34	-	-	34	-
Time Before Reduction*	-	30	-	-	30	-
Time To Reduce*	-	45	-	-	45	-
Minimum Gap	-	3.0	-	-	3.0	-
Recall Mode	-	SOFT RECALL	-	-	SOFT RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON	ON

\* 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.

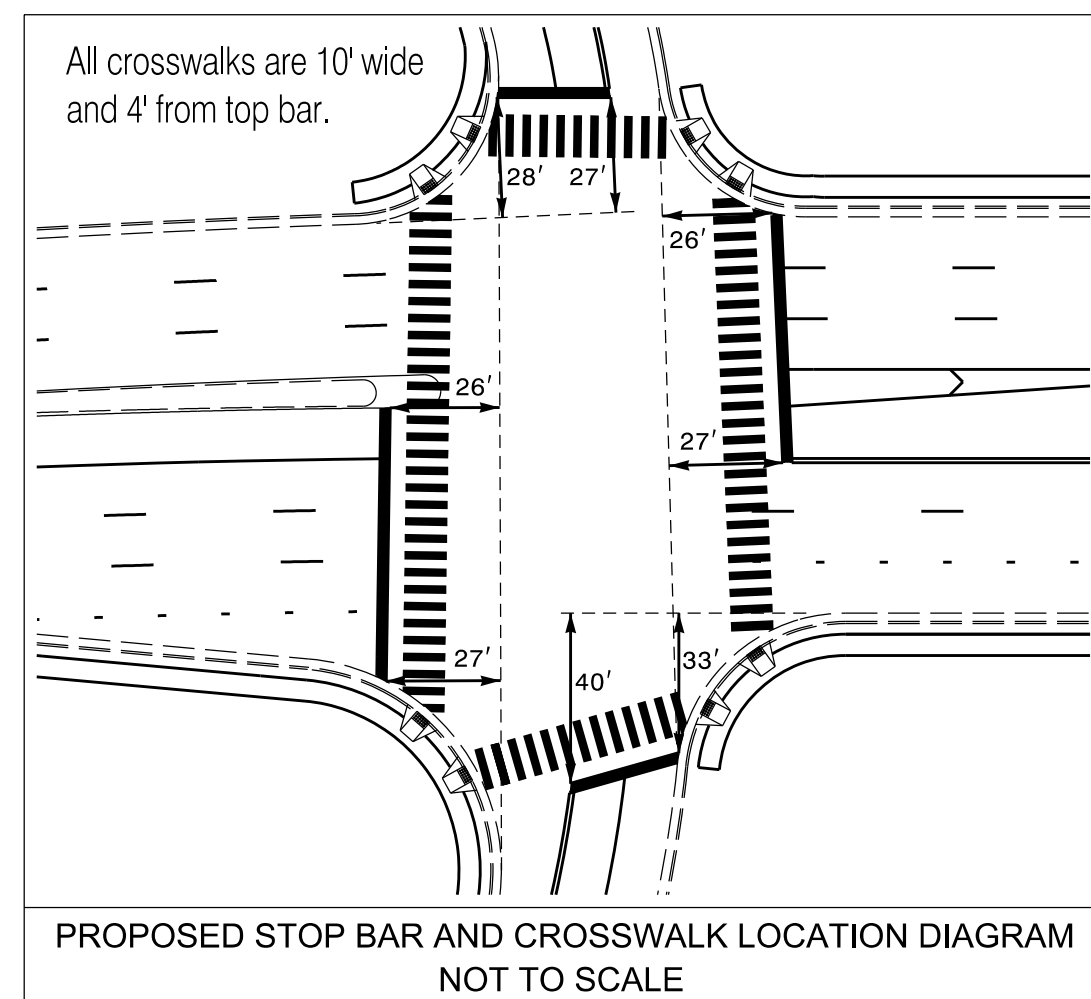


LEGEND

- | PROPOSED   | EXISTING |
|--|----------|
| ○ Traffic Signal Head                            | ● N/A    |
| ○ Modified Signal Head                           | ○ N/A    |
| ○ Sign   | ○ N/A    |
| ○ Pedestrian Signal Head With Push Button & Sign | ○ N/A    |
| ○ Metal Pole with Mastarm                        | ○ N/A    |
| ○ Inductive Loop Detector                        | ○ N/A    |
| ○ Controller & Cabinet                           | ○ N/A    |
| ○ Junction Box                                   | ○ N/A    |
| ○ Oversize Junction Box                          | ○ N/A    |
| ○ 2-in Underground Conduit                       | ○ N/A    |
| ○ Directional Drill                              | ○ N/A    |
| ○ N/A Right of Way                               | ○ N/A    |
| ○ N/A Directional Arrow                          | ○ N/A    |
| ○ N/A Curb Ramp                                  | ○ N/A    |
| ○ "SPECIAL EVENT" Sign w/Beacon (Figure 1)       | ○ N/A    |

FLASHING BEACON TABLE OF OPERATION

SIGNAL FACE	INTERVAL	
	1	2
101	ON	OFF



PROPOSED STOP BAR AND CROSSWALK LOCATION DIAGRAM NOT TO SCALE

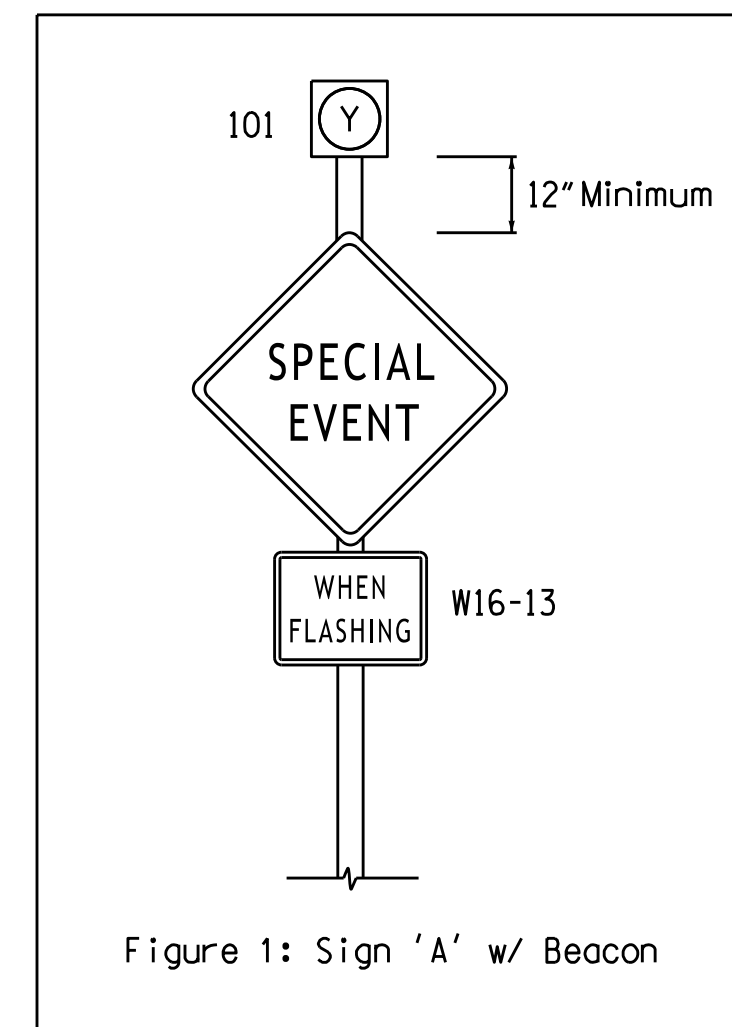


Figure 1: Sign 'A' w/ Beacon

Project #: 170908

**DAVENPORT**  
 HOME OFFICE:  
 119 BROOKSTOWN AVENUE, SUITE PH1  
 WINSTON-SALEM, NC 27101  
 336.744.1636 www.davenportworld.com  
 NCBELS FIRM LICENSE NO. C-2522

Signal Upgrade - Final Design

	NC 68 (Eastchester Dr.) at Cypress Court		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER R. ROYAL HINSHAW License No. 032117
	Division 7 Guilford County High Point		
	PLAN DATE: May 2018 PREPARED BY: A. Ravipati SCALE: 1" = 50' REVISIONS:	REVIEWED BY: R. Hinshaw REVIEWED BY: L. Boyer DATE: 05/20/2018	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED