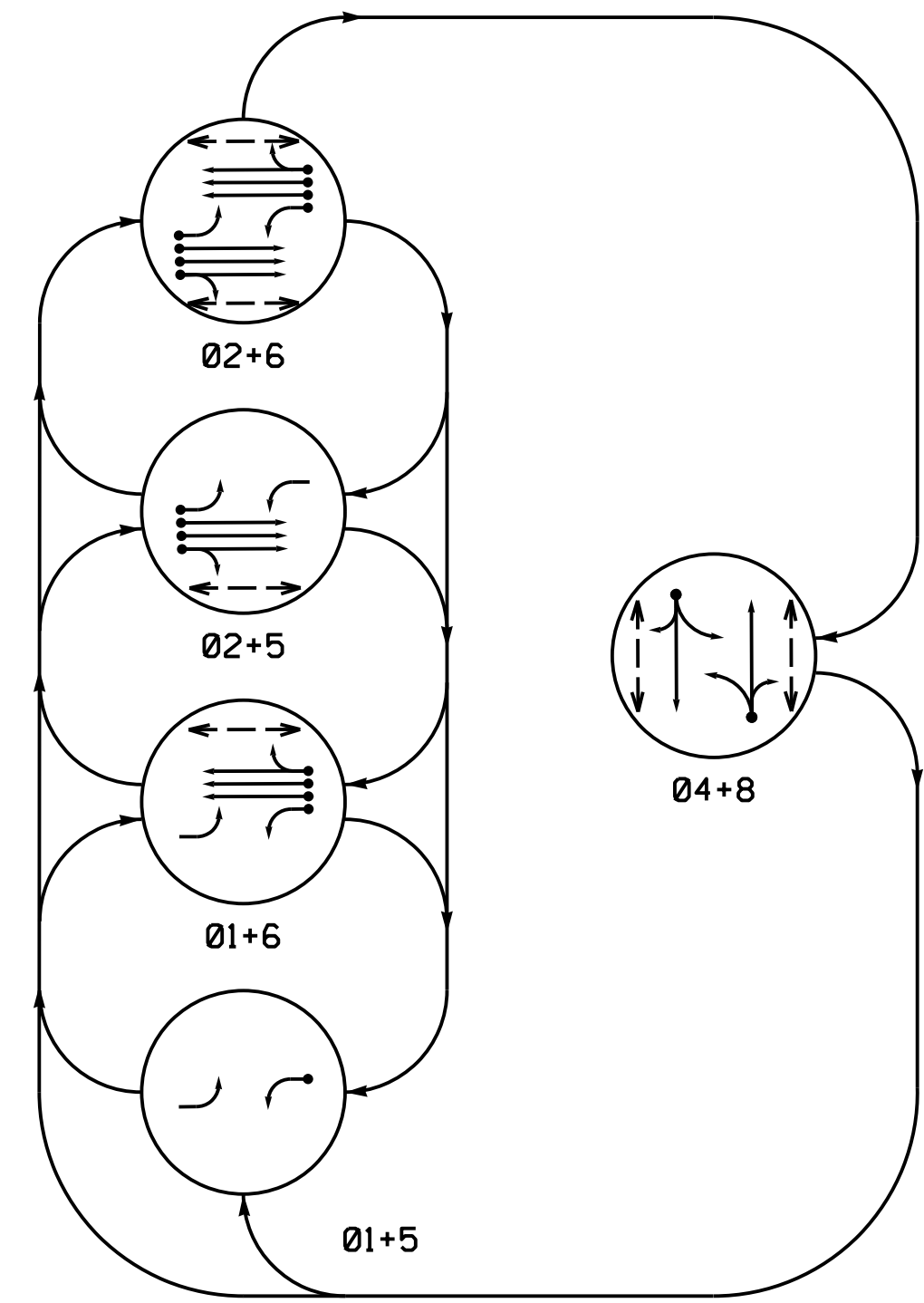


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

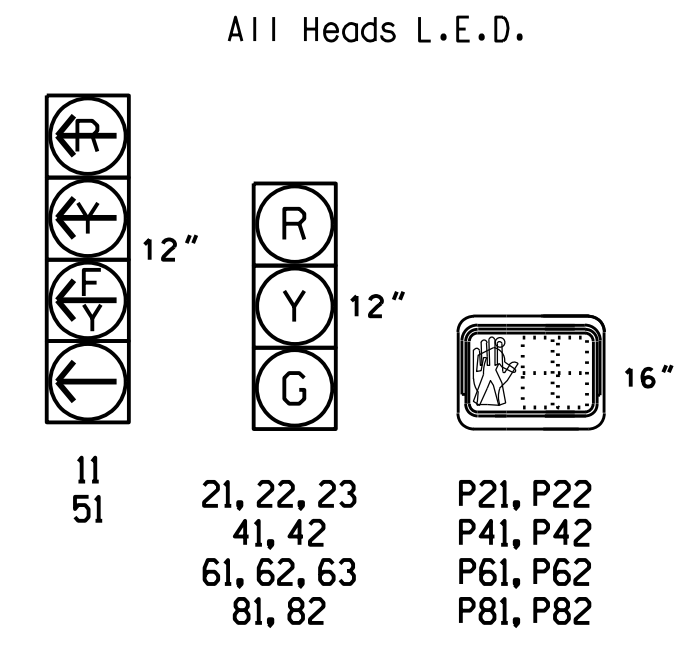


TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FLASH
11	←	←	←	←	←	←
21, 22, 23	R	R	G	G	R	Y
41, 42	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62, 63	R	G	R	G	R	Y
81, 82	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

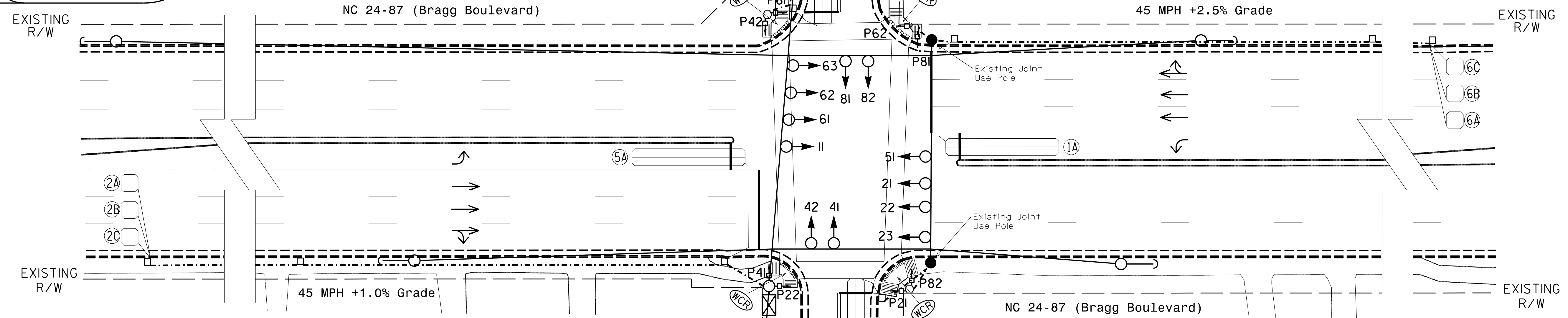
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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

5 Phase Fully Actuated Fayetteville Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated July 2012 and "Standard Specifications for Roads and Structures" dated July 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
5. Program pedestrian heads to countdown the flashing "DON'T WALK" only.
6. Pushbutton locations must be approved in the field by the Division Traffic Engineer prior to installation.
7. Maximum times shown in timing chart are for free run operation only. Coordinated signal timing values supersede these values.
8. Locate cabinet so as to not obstruct sight distance of vehicles turning right on red.

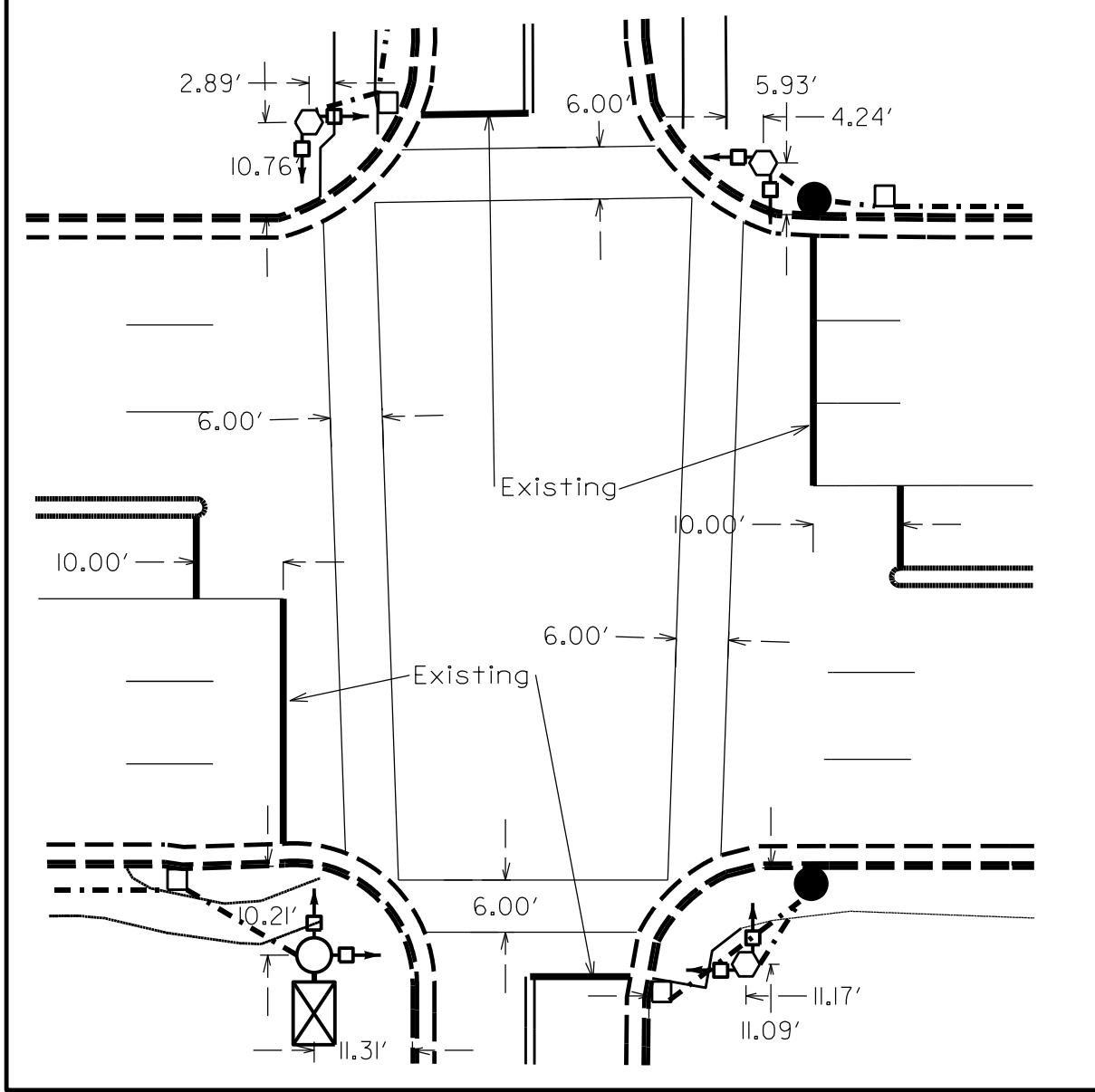


OASIS 2070 TIMING CHART

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*	20	90	25	20	90	30
Yellow Clearance	3.0	4.4	3.1	3.0	4.4	3.3
Red Clearance	2.3	1.0	2.5	2.1	1.0	2.5
Walk 1*	-	7	7	-	7	7
Don't Walk 1	-	8	20	-	6	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

* 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.

STOP BAR AND POLE LOCATION DIAGRAM



LEGEND

- | | | | |
|-----|---|-------|---|
| ○ | PROPOSED Traffic Signal Head | ● | EXISTING Traffic Signal Head |
| □ | PROPOSED Sign | ■ | EXISTING Sign |
| ○ | PROPOSED Pedestrian Signal Head With Push Button & Sign | ■ | EXISTING Pedestrian Signal Head With Push Button & Sign |
| ○ | PROPOSED Signal Pole with Guy | ■ | EXISTING Signal Pole with Guy |
| ○ | PROPOSED Signal Pole with Sidewalk Guy | ■ | EXISTING Signal Pole with Sidewalk Guy |
| □ | PROPOSED Inductive Loop Detector | ■ | EXISTING Inductive Loop Detector |
| □ | PROPOSED Controller & Cabinet | ■ | EXISTING Controller & Cabinet |
| □ | PROPOSED Junction Box | ■ | EXISTING Junction Box |
| N/A | PROPOSED Right of Way | - - - | EXISTING Right of Way |
| → | PROPOSED Directional Arrow | → | EXISTING Directional Arrow |
| ○ | PROPOSED Type II Signal Pedestal | ● | EXISTING Type II Signal Pedestal |
| N/A | PROPOSED Wheelchair Ramp | ↕ | EXISTING Wheelchair Ramp |

Signal Upgrade

CDM Smith
5400 GLENWOOD AVENUE
Suite 400
RALEIGH, NC 27612
NC Licensure F-1255

Prepared in the Offices of:
TRANSPORTATION MOBILITY AND SAFETY DIVISION
DEPARTMENT OF TRANSPORTATION
STATE OF NORTH CAROLINA
SIGNAL DESIGN SECTION

750 N. Greenfield Pkwy, Garner, NC 27529

NC 24-87 (Bragg Boulevard) at Pearl Street

Division 6 Cumberland County Fayetteville

PLAN DATE: September 2015 REVIEWED BY: D. Clodgo

PREPARED BY: B. Wan REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE: 0 20 1"=20'

SIGNATURE: _____ DATE: _____

SIG. INVENTORY NO. 06-0221