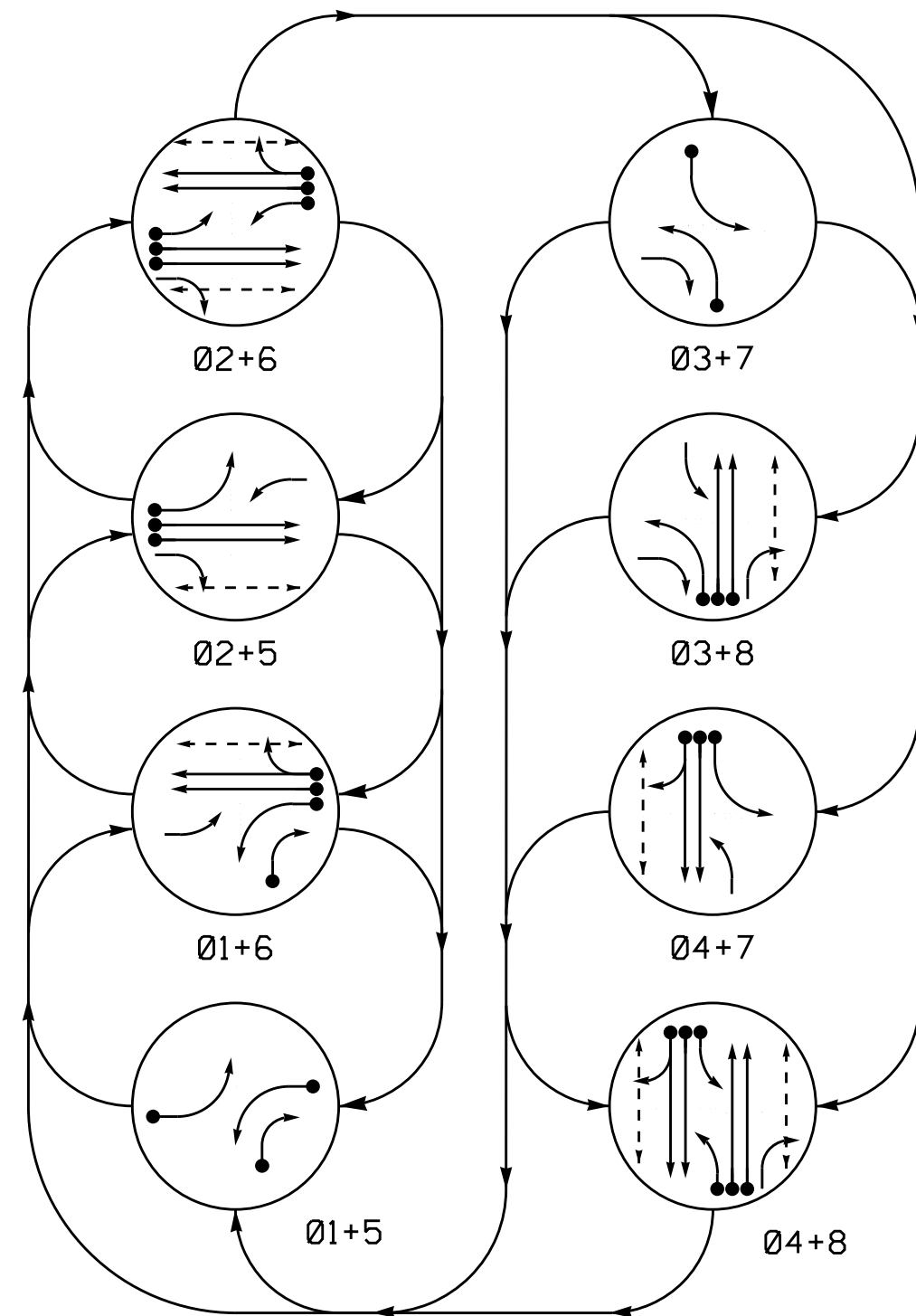


PHASING DIAGRAM



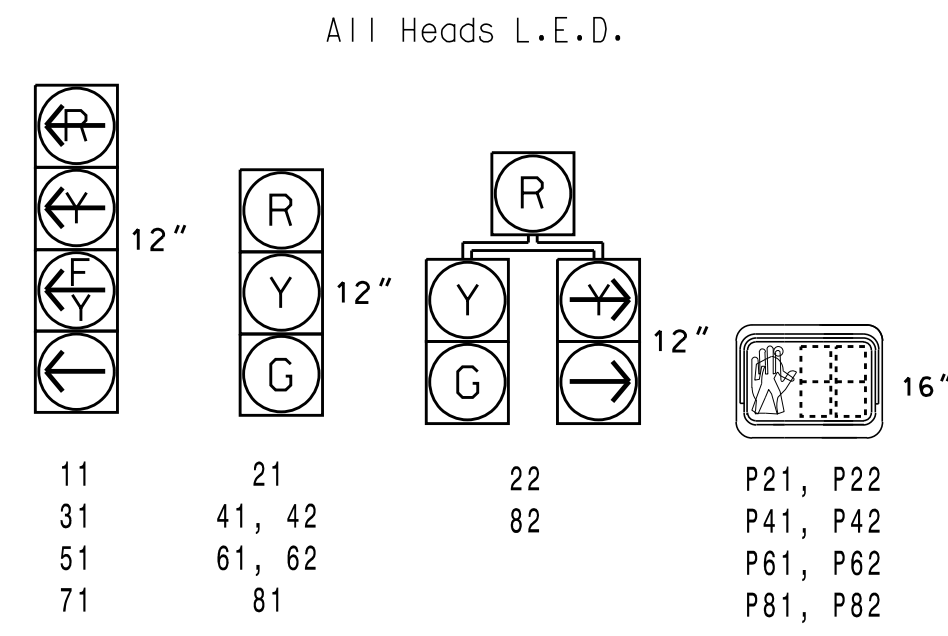
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	←	←	←	←	←	←	←	←
21	R	R	G	G	R	R	R	Y
22	R	R	G	G	R	R	R	Y
31	←	←	←	←	←	←	←	←
41, 42	R	R	R	R	R	R	G	G
51	←	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	R	R	Y
71	←	←	←	←	←	←	←	←
81	R	R	R	R	R	G	R	G
82	R	R	R	R	R	G	R	G
P21, P22	DW	DW	W	W	DW	DW	DW	DRK
P41, P42	DW	DW	DW	DW	DW	W	W	DRK
P61, P62	DW	W	DW	W	DW	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	DW	W	DRK

SIGNAL FACE I.D.



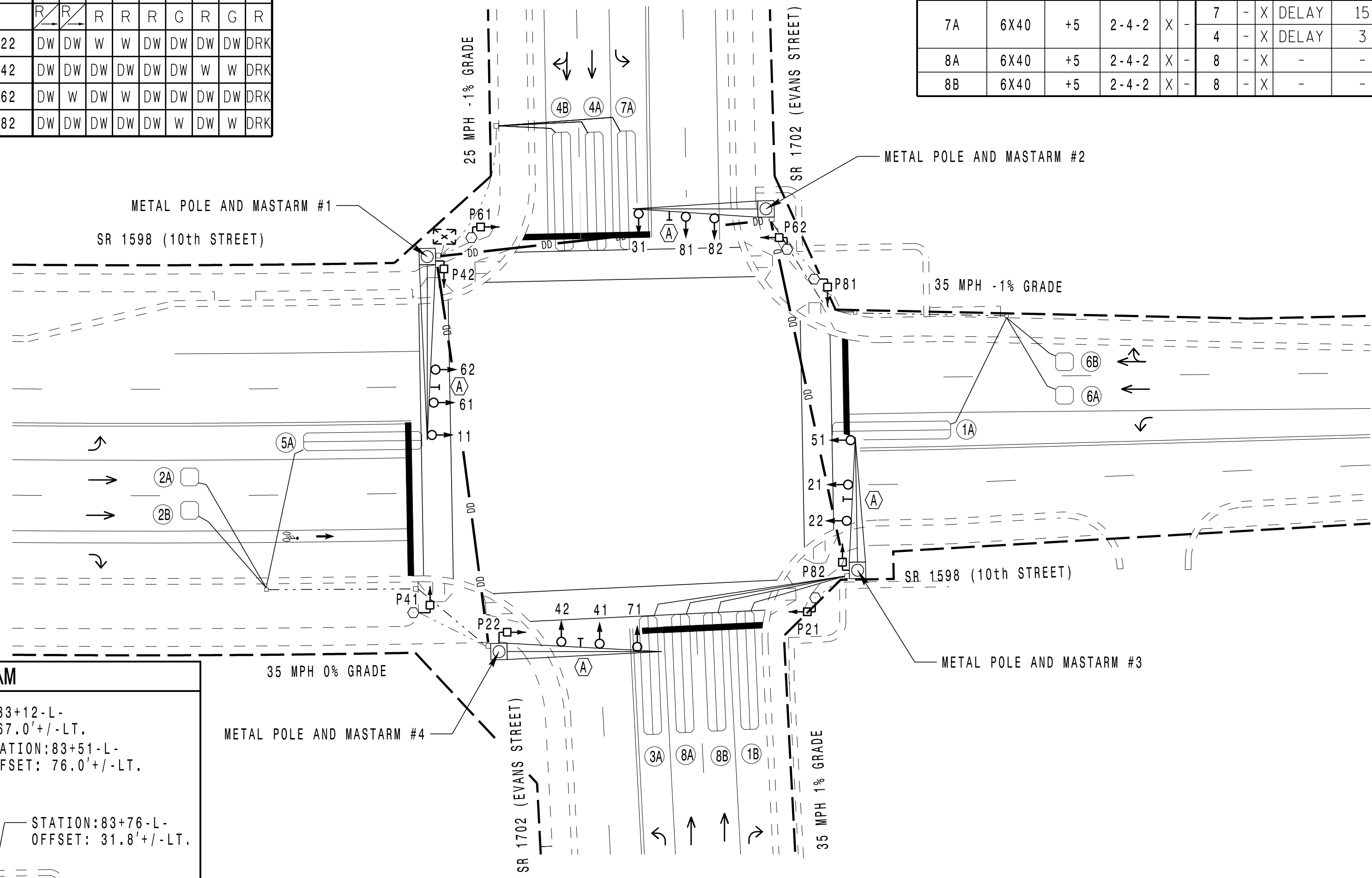
NEMA LOOP & DETECTOR INSTALLATION CHART

LOOP NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	NEW EXISTING	NEMA PHASE		TIMING		INHIBIT DELAY DURING GREEN?	
					NEW	EXISTING	FEATURE	TIME		
1A	6X40	+5	2-4-2	X	-	1	X	DELAY	15	YES
1B	6X40	+5	2-4-2	X	-	6	X	-	-	NO
2A, 2B	6X6	70	4	X	-	2	X	-	-	NO
3A	6X40	+5	2-4-2	X	-	3	X	DELAY	15	YES
4A	6X40	+5	2-4-2	X	-	8	X	DELAY	3	YES
4B	6X40	+5	2-4-2	X	-	4	X	DELAY	10	YES
5A	6X40	+5	2-4-2	X	-	5	X	DELAY	15	YES
6A, 6B	6X6	70	4	X	-	2	X	-	-	NO
7A	6X40	+5	2-4-2	X	-	7	X	DELAY	15	YES
8A	6X40	+5	2-4-2	X	-	4	X	DELAY	3	YES
8B	6X40	+5	2-4-2	X	-	8	X	-	-	NO

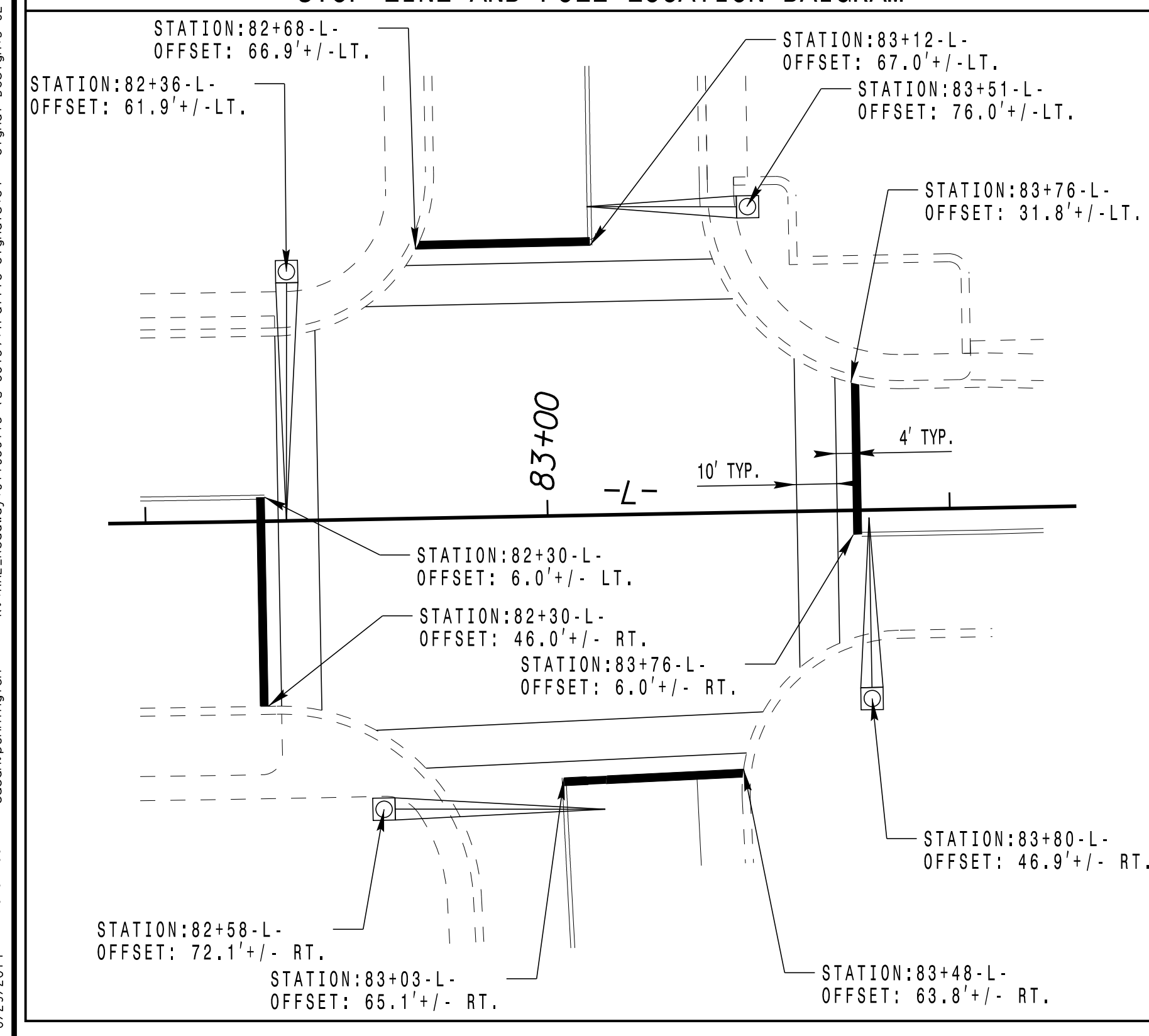
8 PHASE FULLY ACTUATED (GREENVILLE CITY SYSTEM)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Program phase 4 and phase 8 for dual entry.
- 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.
- Intersection Zone Number: 3
System Address Number: 23



STOP LINE AND POLE LOCATION DAIGRAM



ASC3 NEMA TIMING CHART

FEATURE	PHASE							
	01	02	03	04	05	06	07	08
MINIMUM GREEN *	7 SEC.	10 SEC.	7 SEC.	7 SEC.	7 SEC.	10 SEC.	7 SEC.	7 SEC.
PASSAGE GAP *	2.0 SEC.	3.0 SEC.	2.0 SEC.	2.0 SEC.	2.0 SEC.	3.0 SEC.	2.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	3.0 SEC.	3.9 SEC.	3.0 SEC.	3.0 SEC.	3.0 SEC.	3.9 SEC.	3.0 SEC.	3.8 SEC.
RED CLEARANCE	3.2 SEC.	2.7 SEC.	3.3 SEC.	3.2 SEC.	3.4 SEC.	2.7 SEC.	3.2 SEC.	3.2 SEC.
MAXIMUM I *	25 SEC.	60 SEC.	20 SEC.	45 SEC.	25 SEC.	60 SEC.	20 SEC.	45 SEC.
RECALL POSITION	NONE	MIN. RECALL	NONE	NONE	NONE	MIN. RECALL	NONE	NONE
VEHICLE CALL MEMORY	NONLOCK	LOCK	NONLOCK	NONLOCK	NONLOCK	LOCK	NONLOCK	NONLOCK
WALK *	- SEC.	7 SEC.	- SEC.	7 SEC.	- SEC.	7 SEC.	- SEC.	7 SEC.
FLASHING "DON'T WALK"	- SEC.	24 SEC.	- SEC.	26 SEC.	- SEC.	21 SEC.	- SEC.	20 SEC.
VOLUME DENSITY	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
ACTUATION B4 ADD *	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.
SEC. PER ACTUATION *	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.
MAX. INITIAL *	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.
TIME B4 REDUCTION *	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.
TIME TO REDUCE *	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.
MINIMUM GAP	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.	- SEC.

* 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 |
| ○ → Pedestrian Signal Head With Push Button & Sign | ○ → N/A |
| ○ → Type II Signal Pedestal | ○ → N/A |
| ○ → Metal Pole with Mastarm | ○ → N/A |
| ○ → Inductive Loop Detector | ○ → N/A |
| ○ → Controller & Cabinet | ○ → N/A |
| ○ → Junction Box | ○ → N/A |
| ○ → 2-in Underground Conduit | ○ → N/A |
| ○ → Right of Way | ○ → N/A |
| ○ → Directional Arrow | ○ → N/A |
| ○ → Directional Drill | ○ → N/A |
| ○ → Street Name Sign | ○ → N/A |

PLANS PREPARED IN THE OFFICE OF:
Kimley-Horn
NC License #F-0102
P.O. Box 33068
Raleigh, NC 27636
(919) 677-2000

FINAL DESIGN

	<p>SR 1598 (10th STREET) AT SR 1702 (EVANS STREET)</p>		<p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER STACIE L. PHILLIPS 032607</p>
	<p>DIVISION 2 PITT COUNTY GREENVILLE</p> <p>PLAN DATE: JUNE 2014 REVIEWED BY: SL PHILLIPS</p> <p>PREPARED BY: SP PENNINGTON REVIEWED BY:</p>		
<p>750 N. Greenfield Pkwy, Garner, NC 27529</p> <p>SCALE: 0 30' 1"=30'</p>		<p>DocuSigned by: Stacie L. Phillips 9/2/2014</p> <p>SIG. INVENTORY NO. 02-0016</p>	

8/29/2014 10:57:00 AM susan.pennington K:\RAL_Roadway\01036175 (U-3315)\Traffic Signal\54 - Signal Design\5-02-0016 Evans 5.6 02016-140829.dgn