PROJECT REFERENCE NO.	SHEET NO.
W-5205QA	Sig. 1

PHASING DIAGRAM

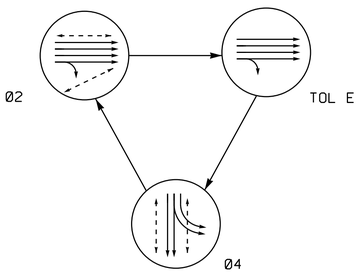


TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	Ø2	TOL E	Ø4	FLASH
21, 22, 23	G	G	R	Y
24, 25	OFF	ON	ON	OFF
41, 42	R	R	G	R
P21, P22	W	DW	DW	DRK
P23, P24	W	DW	DW	DRK
P41, P42	DW	DW	W	DRK
P43, P44	DW	DW	W	DRK

W - Walk
DW - Don't Walk
DRK - Dark

TABLE OF OPERATION		
SIGNAL FACE	INTERVAL	
	1	2
24, 25	ON	OFF

FIGURE 1

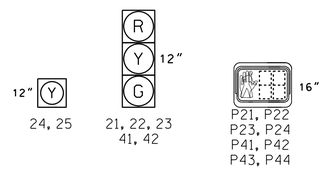
2 Phase
w/ Timed Overlap
Pre-Timed
(Raleigh Signal System)

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. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
4. Beacons 24 and 25 are solar powered.
5. Flash beacons 24 and 25 at the beginning of TOL E. They shall flash until the beginning of phase 2 green.
6. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. Utiliize Wireless Radio for communication between signal cabinet and remote cabinet for solar powered flasher.

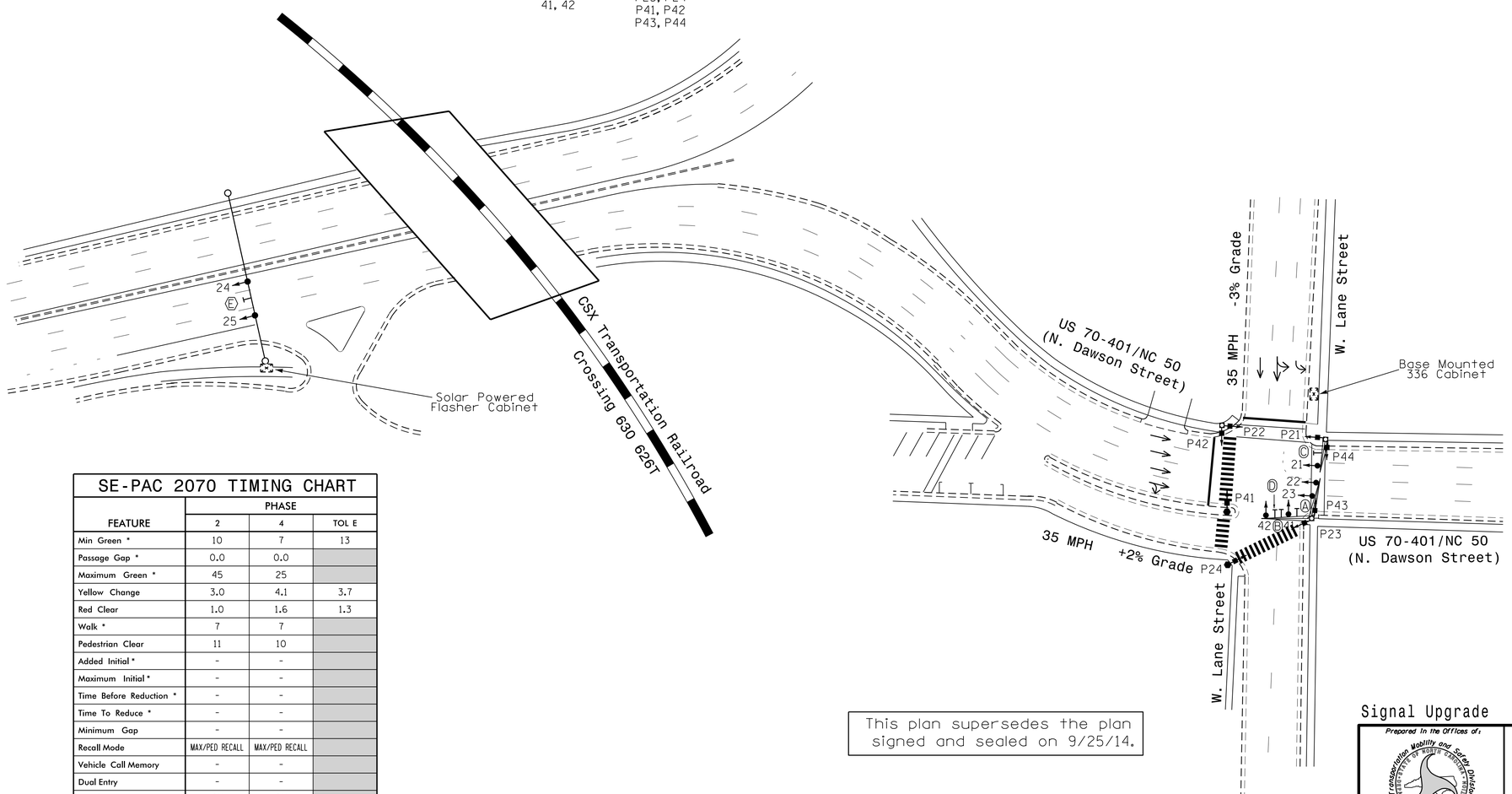
SIGNAL FACE I.D.

All Heads L.E.D.



PHASING DIAGRAM DETECTION LEGEND

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



SE-PAC 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	TOL E
Min Green *	10	7	13
Passage Gap *	0.0	0.0	
Maximum Green *	45	25	
Yellow Change	3.0	4.1	3.7
Red Clear	1.0	1.6	1.3
Walk *	7	7	
Pedestrian Clear	11	10	
Added Initial *	-	-	
Maximum Initial *	-	-	
Time Before Reduction *	-	-	
Time To Reduce *	-	-	
Minimum Gap	-	-	
Recall Mode	MAX/PED RECALL	MAX/PED RECALL	
Vehicle Call Memory	-	-	
Dual Entry	-	-	
Simultaneous Gap	ON	ON	

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

This plan supersedes the plan signed and sealed on 9/25/14.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Metal Pole with Mastarm	
	Type II Signal Pedestal	
N/A	Railroad Tracks	
A	Left Arrow "ONLY" Sign (R3-5L)	A
B	Combined Through and Left Arrow Sign (R3-6L)	B
C	No Left Turn Sign (R3-2)	C
D	No Right Turn Sign (R3-1)	D
E	"BE PREPARED TO STOP WHEN FLASHING" Sign - See Figure 1	E

Signal Upgrade

Prepared in the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 40 1"=40'

US 70 EB-401 SB/NC 50 SB (N. Dawson Street) at W. Lane Street

Division 5 Wake County Raleigh

PLAN DATE: February 2015 REVIEWED BY:
PREPARED BY: M.E. Giles REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZIEMBA

DocuSigned by: 1B9B1A3E8A7B4A3... SIGNATURE 2/20/2015 DATE

SIG. INVENTORY NO. 05-1046

20-FEB-2015 14:47
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