PROJECT REFERENCE NO.	SHEET NO.
U-4715 B	Sig.154.0

3 Phase Fully Actuated Asheville Signal System

PHASING DIAGRAM

Program all phases for "Red Rest".

PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+6	PHASE Ø4+7	PHASE Ø4+8	FLASH
21,22	G	R	R	R
23,24	↗	↗̸	↗̸	↗̸
41,42	R	↑	↑	R
43,44	↗̸	↗	↗	↗̸
61,62	↑	R	R	R
63,64	↖	↖̸	↖̸	↖̸
81,82	R	R	G	R
83,84	↖̸	↖̸	↖	↖̸
P41,P42	DW	W	W	DRK
P61,P62	W	DW	DW	DRK
P81,P82	DW	DW	W	DRK

SIGNAL FACE I.D.

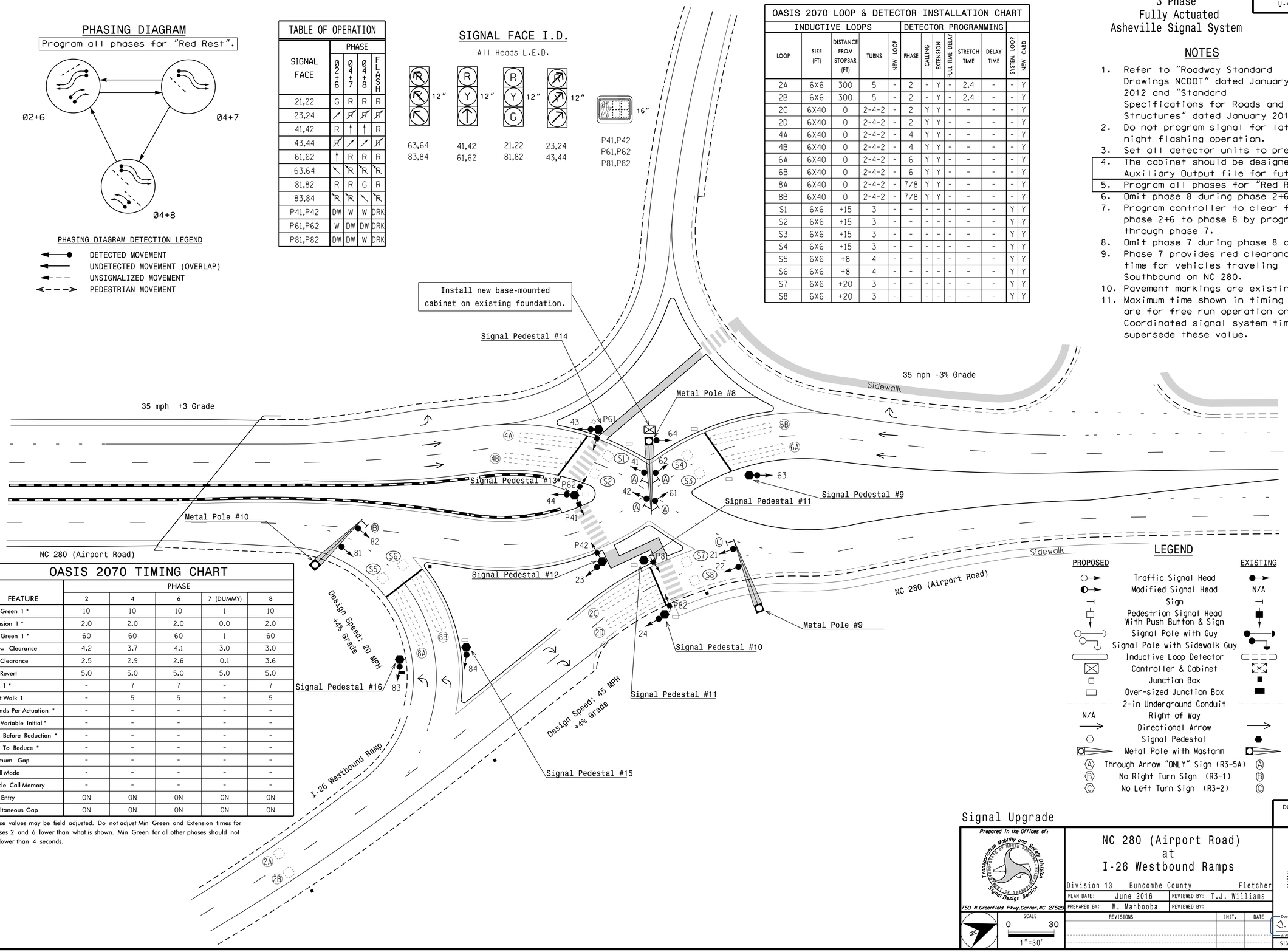
All Heads L.E.D.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	300	5	-	2	-	Y	-	2.4	-	-	Y
2B	6X6	300	5	-	2	-	Y	-	2.4	-	-	Y
2C	6X40	0	2-4-2	-	2	Y	Y	-	-	-	-	Y
2D	6X40	0	2-4-2	-	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	Y
4B	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	Y
6A	6X40	0	2-4-2	-	6	Y	Y	-	-	-	-	Y
6B	6X40	0	2-4-2	-	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	-	7/8	Y	Y	-	-	-	-	Y
8B	6X40	0	2-4-2	-	7/8	Y	Y	-	-	-	-	Y
S1	6X6	+15	3	-	-	-	-	-	-	-	Y	Y
S2	6X6	+15	3	-	-	-	-	-	-	-	Y	Y
S3	6X6	+15	3	-	-	-	-	-	-	-	Y	Y
S4	6X6	+15	3	-	-	-	-	-	-	-	Y	Y
S5	6X6	+8	4	-	-	-	-	-	-	-	Y	Y
S6	6X6	+8	4	-	-	-	-	-	-	-	Y	Y
S7	6X6	+20	3	-	-	-	-	-	-	-	Y	Y
S8	6X6	+20	3	-	-	-	-	-	-	-	Y	Y

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.
3. Set all detector units to presence mode.
4. The cabinet should be designed to include Auxiliary Output file for future use.
5. Program all phases for "Red Rest".
6. Omit phase 8 during phase 2+6 on.
7. Program controller to clear from phase 2+6 to phase 8 by progressing through phase 7.
8. Omit phase 7 during phase 8 on.
9. Phase 7 provides red clearance time for vehicles traveling Southbound on NC 280.
10. Pavement markings are existing.
11. Maximum time shown in timing chart are for free run operation only. Coordinated signal system times value supersede these value.



OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 7 (DUMMY)	PHASE 8
Min Green 1 *	10	10	10	1	10
Extension 1 *	2.0	2.0	2.0	0.0	2.0
Max Green 1 *	60	60	60	1	60
Yellow Clearance	4.2	3.7	4.1	3.0	3.0
Red Clearance	2.5	2.9	2.6	0.1	3.6
Red Revert	5.0	5.0	5.0	5.0	5.0
Walk 1 *	-	7	7	-	7
Don't Walk 1	-	5	5	-	5
Seconds Per Actuation *	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	-	-	-	-	-
Vehicle Call Memory	-	-	-	-	-
Dual Entry	ON	ON	ON	ON	ON
Simultaneous Gap	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	
	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	
	Over-sized Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Signal Pedestal	
	Metal Pole with Mastarm	
Ⓐ	Through Arrow "ONLY" Sign (R3-5A)	Ⓐ
Ⓑ	No Right Turn Sign (R3-1)	Ⓑ
Ⓒ	No Left Turn Sign (R3-2)	Ⓒ

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

NC 280 (Airport Road) at I-26 Westbound Ramps

Division 13 Buncombe County Fletcher

PLAN DATE:	June 2016	REVIEWED BY:	T.J. Williams
PREPARED BY:	M. Mahbooba	REVIEWED BY:	

SCALE 0 30 1"=30'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 024393 ENGINEER TIMOTHY J. WILLIAMS

DocuSigned by: T. J. Williams 07AD792EBE934CA 11/7/2016

SIG. INVENTORY NO. 13-0815

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