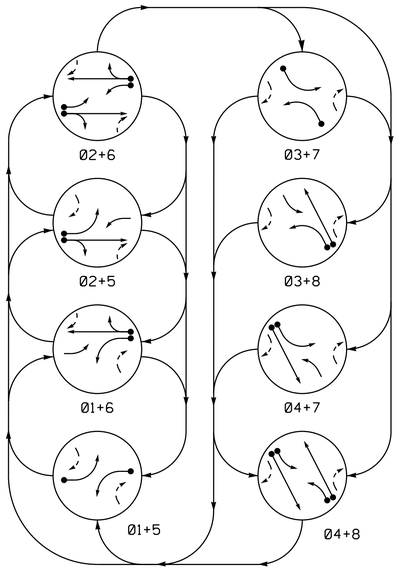
PROJECT REFERENCE NO.	SHEET NO.
R-2707 C	Sig. 2.0

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	FLASH
11	←	←	F Y	F Y	R	R	R	R	Y
21, 22	R	R	G	G	R	R	R	R	Y
31	R	R	R	R	←	←	F Y	F Y	R
41, 42	R	R	R	R	R	R	G	G	R
51	←	F Y	←	F Y	R	R	R	R	Y
61, 62	R	G	R	G	R	R	R	R	Y
71	R	R	R	R	←	F Y	←	F Y	R
81, 82	R	R	R	R	R	G	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

11
31
51
71

21, 22
41, 42
61, 62
81, 82

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

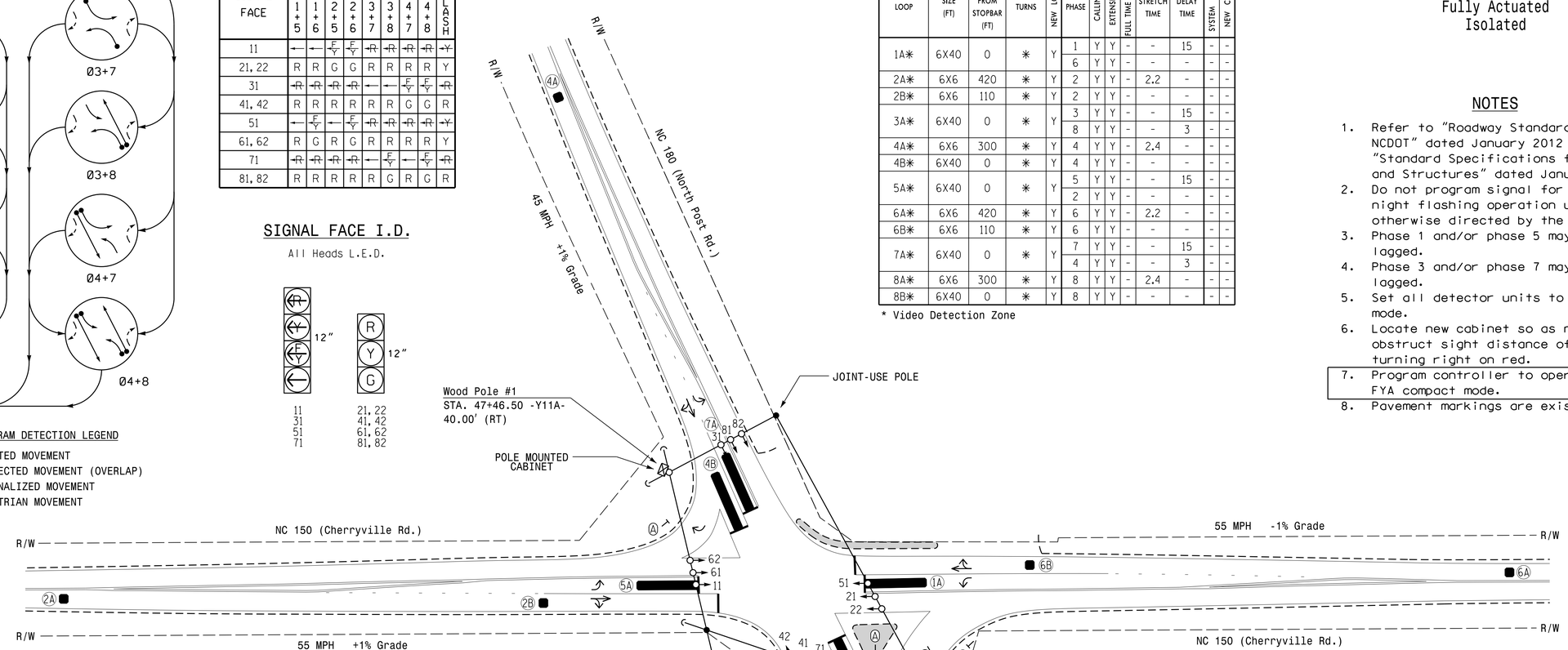
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A*	6X40	0	*	Y	1	Y	Y	-	-	15	-	-
					6	Y	Y	-	-	-	-	-
2A*	6X6	420	*	Y	2	Y	Y	-	2.2	-	-	-
2B*	6X6	110	*	Y	2	Y	Y	-	-	-	-	-
3A*	6X40	0	*	Y	3	Y	Y	-	-	15	-	-
					8	Y	Y	-	-	3	-	-
4A*	6X6	300	*	Y	4	Y	Y	-	2.4	-	-	-
4B*	6X40	0	*	Y	4	Y	Y	-	-	-	-	-
5A*	6X40	0	*	Y	5	Y	Y	-	-	15	-	-
					2	Y	Y	-	-	-	-	-
6A*	6X6	420	*	Y	6	Y	Y	-	2.2	-	-	-
6B*	6X6	110	*	Y	6	Y	Y	-	-	-	-	-
7A*	6X40	0	*	Y	7	Y	Y	-	-	15	-	-
					4	Y	Y	-	-	3	-	-
8A*	6X6	300	*	Y	8	Y	Y	-	2.4	-	-	-
8B*	6X40	0	*	Y	8	Y	Y	-	-	-	-	-

* Video Detection Zone

8 Phase
Fully Actuated
Isolated

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. Phase 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Program controller to operate using FYA compact mode.
8. Pavement markings are existing.



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	
	Video Detection Zone	
	"YIELD" Sign (R1-2)	

OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6	7	8
Min Green 1 *	7	14	7	12	7	14	7	12
Extension 1 *	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	15	45	15	40	15	45	15	40
Yellow Clearance	3.0	5.3	3.0	4.4	3.0	5.3	3.0	4.4
Red Clearance	1.9	1.0	2.8	1.5	2.1	1.0	2.6	1.5
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	ON	-	-	-	ON
Simultaneous Gap	ON	ON	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.

Signal Upgrade - Temporary Design

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

SCALE 0 40 1"=40'

NC 150 (Cherryville Rd.) at NC 180 (North Post Rd.)

Division 12 Cleveland County Shelby

PLAN DATE: January 2017 REVIEWED BY: T.J. Williams
PREPARED BY: R.N. Zinser REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 024393 ENGINEER TIMOTHY J. WILLIAMS

DocuSigned by: T. J. Williams 2/20/2017
SIGNATURE DATE

SIG. INVENTORY NO. 12-0596T

20-FEB-2017 09:38
S:\TSS\Signals\Signal Design Section\Western Region\Div-12\R-2707C\120596T_sig_dsn_2017mmdd.dgn
rnzinser