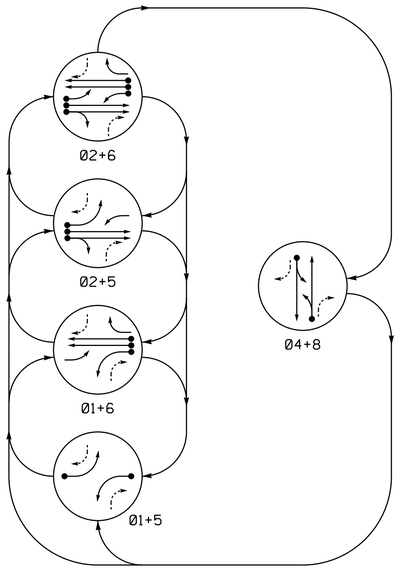
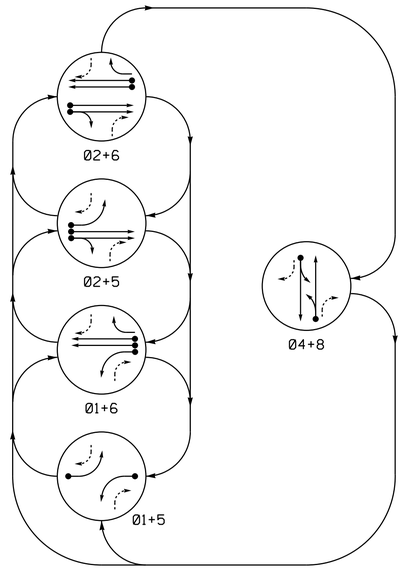
PROJECT REFERENCE NO.	SHEET NO.
W-5705L	Sig. 1

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	PHASE 01+6	PHASE 02+5	PHASE 02+6	PHASE 04+8	FLASH
11	←—	←—	F Y	F Y	~~R~~	~~Y~~
22, 23	R	R	G	G	R	Y
41, 42, 43	R	R	R	R	G	R
51	←—	F Y	←—	F Y	~~R~~	~~Y~~
62, 63	R	G	R	G	R	Y
81, 82, 83	R	R	R	R	G	R

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	PHASE 01+6	PHASE 02+5	PHASE 02+6	PHASE 04+8	FLASH
11	←—	←—	~~R~~	~~R~~	~~R~~	~~Y~~
22, 23	R	R	G	G	R	Y
41, 42, 43	R	R	R	R	G	R
51	←—	~~R~~	←—	~~R~~	~~R~~	~~Y~~
62, 63	R	G	R	G	R	Y
81, 82, 83	R	R	R	R	G	R

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

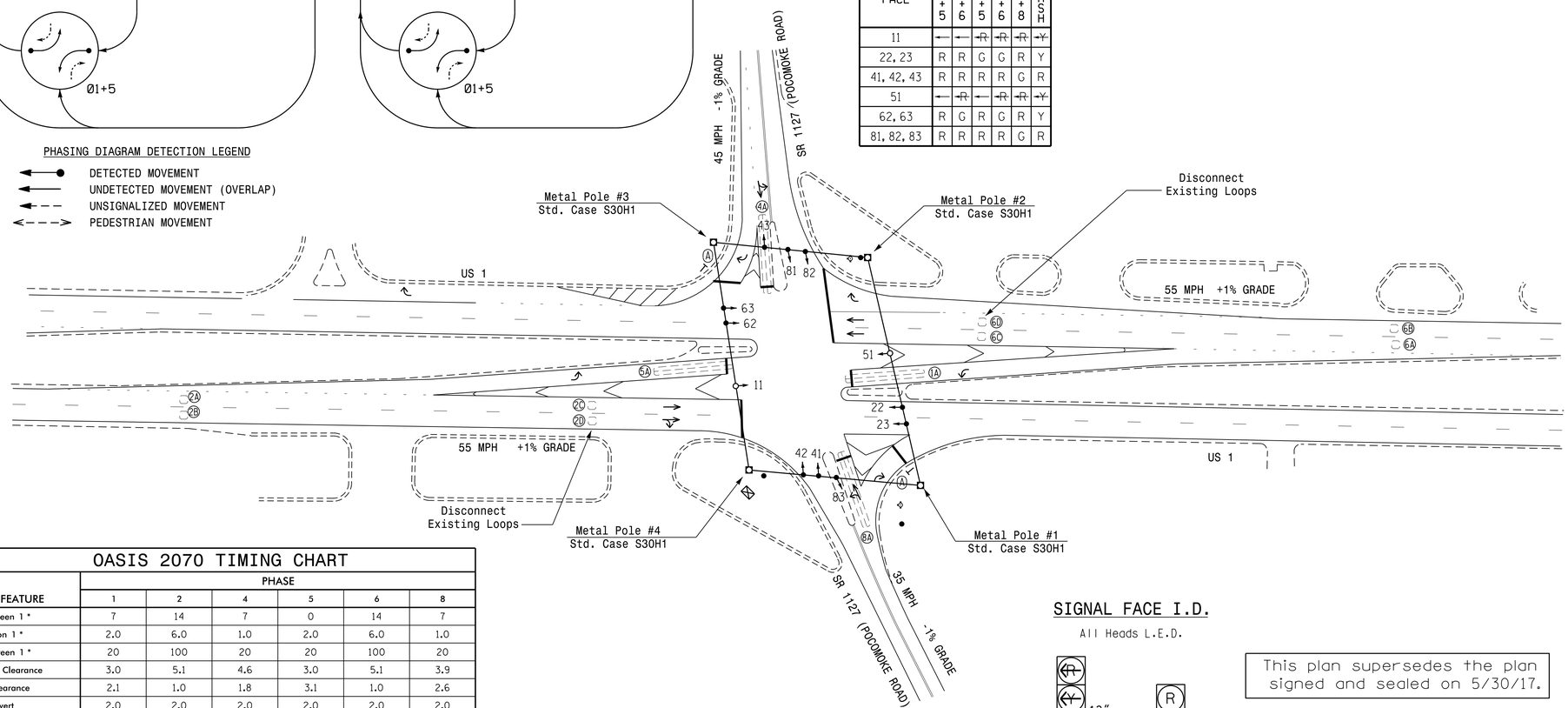
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X60	2-4-2	+5	-	1	Y	Y	-	-	15 *	-	Y
					6 #	Y	Y	Y	-	3	-	Y
2A	6X6	5	420	-	2	Y	Y	-	-	-	-	Y
2B	6X6	5	420	-	2	Y	Y	-	-	-	-	Y
2C, 2D	6X6	3	110	-	DISCONNECT						-	-
4A	6X60	2-4-2	+5	-	4	Y	Y	-	-	-	-	Y
5A	6X60	2-4-2	+5	-	5	Y	Y	-	-	15 *	-	Y
					2 #	Y	Y	Y	-	3	-	Y
6A	6X6	5	420	-	6	Y	Y	-	-	-	-	Y
6B	6X6	3	110	-	6	Y	Y	-	-	-	-	Y
6C, 6D	6X60	2-4-2	+5	-	DISCONNECT						-	-
8A	6X60	2-4-2	+5	-	8	Y	Y	-	-	-	-	Y

* Disable Delay During Alternate Phasing Operation.
\# Disable Phase Call For Loop(s) During Alternate Phasing Operation.

5 Phase
Fully Actuated
(Isolated)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
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. Renumber existing loop 2E as 5A and loop 6E as 1A.
5. Disconnect existing loops 2C, 2D, 6C, and 6D to utilize Volume Denstiy Operation.
6. Set all detector units to presence mode.
7. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
8. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
9. Pavement markings are existing.
10. The Division Traffic Engineer will determine the hours of use for each phasing plan.

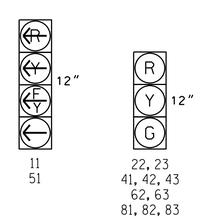


LEGEND

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 Strain Pole	
N/A	Fire Hydrant	
	"YIELD" Sign (R1-2)	

SIGNAL FACE I.D.

All Heads L.E.D.



This plan supersedes the plan signed and sealed on 5/30/17.

OASIS 2070 TIMING CHART

FEATURE	PHASE 1	PHASE 2	PHASE 4	PHASE 5	PHASE 6	PHASE 8
Min Green 1 *	7	14	7	0	14	7
Extension 1 *	2.0	6.0	1.0	2.0	6.0	1.0
Max Green 1 *	20	100	20	20	100	20
Yellow Clearance	3.0	5.1	4.6	3.0	5.1	3.9
Red Clearance	2.1	1.0	1.8	3.1	1.0	2.6
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	1.5	-
Max Variable Initial *	-	46	-	-	46	-
Time Before Reduction *	-	30	-	-	30	-
Time To Reduce *	-	454	-	-	45	-
Minimum Gap	-	3.4	-	-	3.4	-
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.

Signal Upgrade

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

SCALE 0 50 1"=50'

US 1
at
SR 1127 (Pocomoke Road)

Division 5 Franklin County Franklinton

PLAN DATE: May 2017 REVIEWED BY:
PREPARED BY: R.J. Ziemba REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZIEMBA

DocuSigned by: 2/20/2018
SIGNATURE DATE

SIG. INVENTORY NO. 05-0208

20-FEB-2018 11:50
S:\TIS\Unit\Signals\Signal Design Section\Central Region\Div 5\05-0208\050208.sig.dsn,20180220.dgn
rziemba