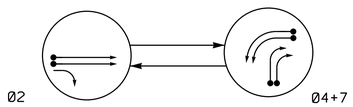
PROJECT REFERENCE NO.	SHEET NO.
2021CPT.03.31.10101	Sig.3.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

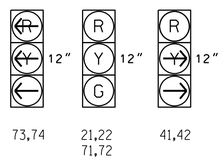
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 02	PHASE 04+7	FLASH
21,22	G	R	Y
41,42	R	→	R
71,72	R	G	R
73,74	~~R~~	~~←~~	~~R~~

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 7
Min Green 1 *	12	7	7
Extension 1 *	5.0	2.0	2.0
Max Green 1 *	90	30	30
Yellow Clearance	4.5	3.0	3.0
Red Clearance	1.8	3.5	3.5
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	1.5	-	-
Max Variable Initial *	32	-	-
Time Before Reduction *	25	-	-
Time To Reduce *	50	-	-
Minimum Gap	3.0	-	-
Recall Mode	MIN RECALL	-	-
Vehicle Call Memory	YELLOW	-	-
Dual Entry	-	ON	ON
Simultaneous Gap	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.

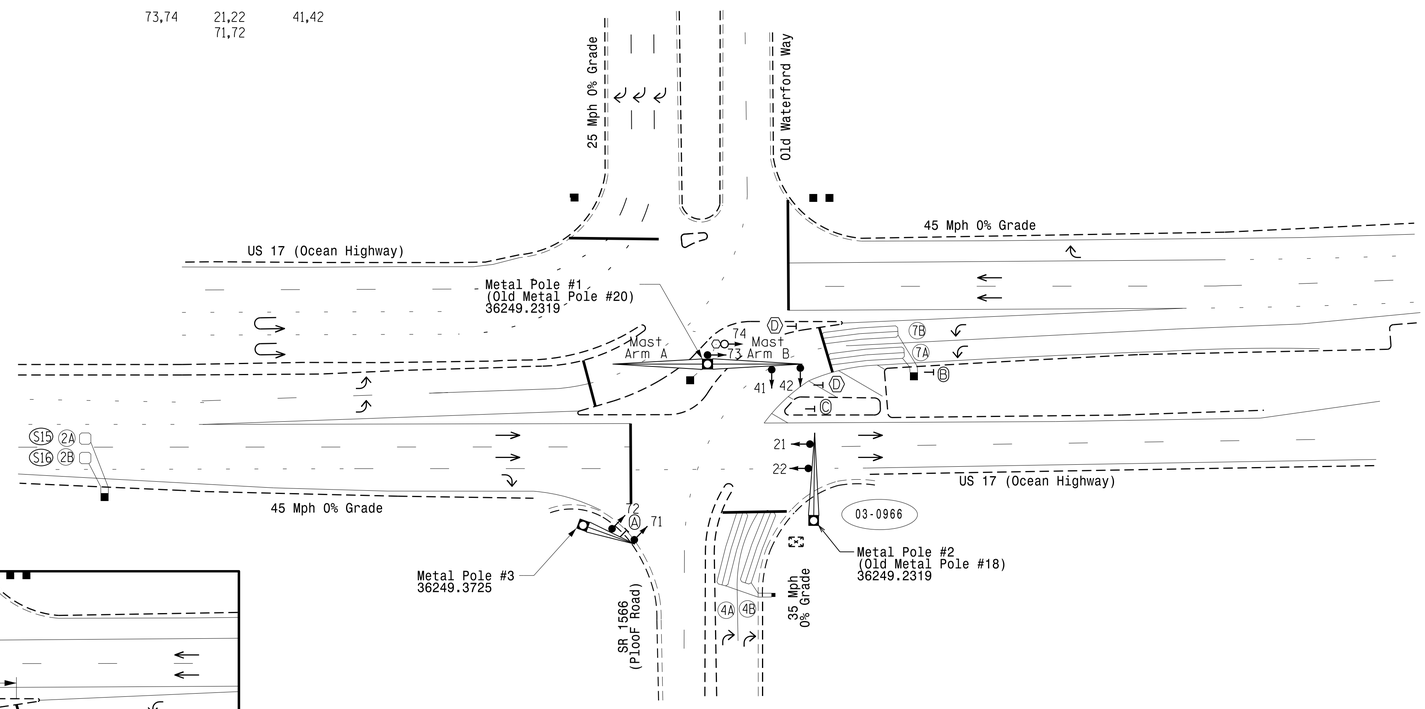
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

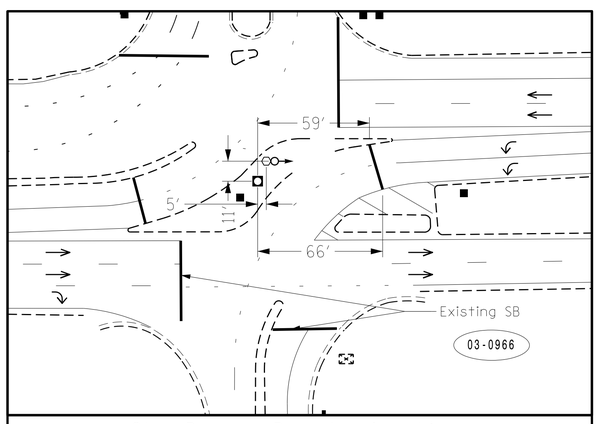
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A/S15	6X6	285	5	-	2	Y	Y	-	-	-	Y	-
2B/S16	6X6	285	5	-	2	Y	Y	-	-	-	Y	-
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	15	-	-
4B	6X40	0	2-4-2	-	4	Y	Y	-	-	15	-	-
7A	6X40	0	2-4-2	-	7	Y	Y	-	-	-	-	-
7B	6X40	0	2-4-2	-	7	Y	Y	-	-	-	-	-

2 Phase
Fully Actuated
US 17 (Ocean Highway) - Leland Superstreet
D03-12 Leland

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. Renumber existing heads 14 and 15 as 41 and 42, respectively. Renumber existing heads 11, 12, and 13 as 71, 72, and 73, respectively.
4. Renumber existing loops 1A 1B, 1C, and 1D as 7A, 7B, 4A, and 4B, respectively.
3. Set all detector units to presence mode.
4. Pavement markings are existing.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Closed loop system data: Controller Asset #: 0966.





Stop Bar and Pedestal Locations

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	
Ⓐ	Through Arrow "ONLY" Sign (R3-5A)	Ⓐ
Ⓑ	No U-Turn Sign (R3-4)	Ⓑ
Ⓒ	No Left Turn Sign (R3-2)	Ⓒ
Ⓓ	Stop Here on Red (R10-6)	Ⓓ
	Type II Signal Pedestal	

Signal Upgrade

Prepared In the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 40
1"=40'

US 17 (Ocean Highway)
at
SR 1566 (Ploof Road)

Division 3 Brunswick County Leland

PLAN DATE: October 2021 REVIEWED BY: MEL
PREPARED BY: KGP, Jr. REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 042608 ENGINEER MEGHAN E. LEBLANC

DocuSigned by: Meghan E. LeBlanc 10/25/2021

SIG. INVENTORY NO. 03-0966

22-OCT-2021 13:28
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