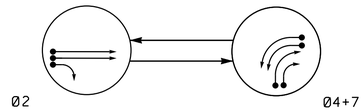
PROJECT REFERENCE NO.	SHEET NO.
2021CPT.03.31.10101	Sig.14.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

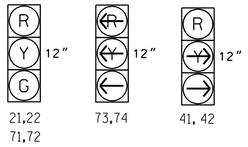
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

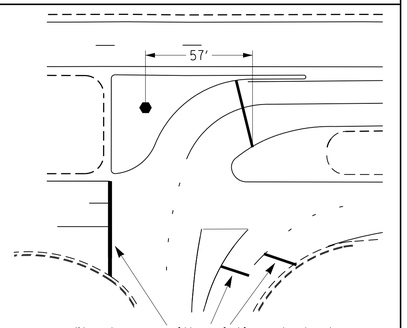
SIGNAL FACE	PHASE Ø2	PHASE Ø4+7	PHASE FLASH
21, 22	G	R	Y
41, 42	R	→	R
71,72,73,74	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



STOP BAR LOCATIONS



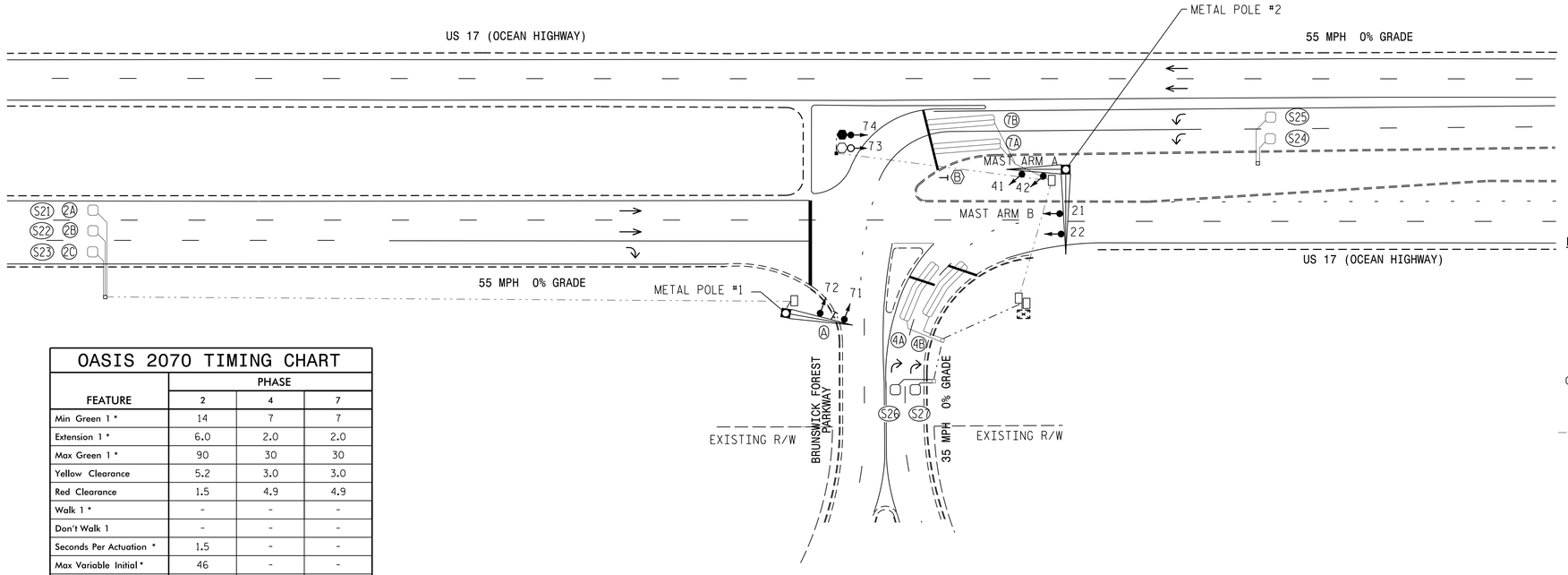
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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/S21	6X6	420	6	Y	2	Y	Y	-	-	-	Y	-
2B/S22	6X6	420	6	Y	2	Y	Y	-	-	-	Y	-
2C/S23	6X6	420	6	Y	2	Y	Y	-	-	-	Y	-
4A	6X40	+10	2-4-2	Y	4	Y	Y	-	-	15	-	-
4B	6X40	+5	2-4-2	Y	4	Y	Y	-	-	15	-	-
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	-
7B	6X40	0	2-4-2	Y	7	Y	Y	-	-	-	-	-
S24	6X6	200	3	Y	-	-	-	-	-	-	Y	-
S25	6X6	200	3	Y	-	-	-	-	-	-	Y	-
S26	6X6	75	3	Y	-	-	-	-	-	-	Y	-
S27	6X6	75	3	Y	-	-	-	-	-	-	Y	-

2 PHASE
FULLY ACTUATED
D03-12 Leland
US 17 (Ocean Hwy)-Leland Superstreet

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. Set all detector units to presence mode.
4. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
5. Closed loop system data: Controller Asset #0979.



OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 7
Min Green 1 *	14	7	7
Extension 1 *	6.0	2.0	2.0
Max Green 1 *	90	30	30
Yellow Clearance	5.2	3.0	3.0
Red Clearance	1.5	4.9	4.9
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	1.5	-	-
Max Variable Initial *	46	-	-
Time Before Reduction *	15	-	-
Time To Reduce *	50	-	-
Minimum Gap	3.4	-	-
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 phase 2 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	■
·····	2-in Underground Conduit	·····
N/A	Right of Way	———
→	Directional Arrow	→
◁	Metal Pole with Mastarm	◁
⬡	Type II Signal Pedestal	⬢
Ⓐ	Through Arrow "ONLY" Sign (R3-5A)	Ⓐ
Ⓑ	Stop Here on Red (R10-6)	Ⓑ

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

US 17 (OCEAN HIGHWAY)
at
BRUNSWICK FOREST PARKWAY

DIVISION 3 | BRUNSWICK COUNTY | LELAND

PLAN DATE:	October 2021	REVIEWED BY:	MEL
PREPARED BY:	X. Han	REVIEWED BY:	

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 042608 ENGINEER MEGHAN E. LEBLANC

DocuSigned by: Meghan Elizabeth Leblanc 10/26/2021
DATE

SIG. INVENTORY NO. 03-0979

26-OCT-2021 09:50
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