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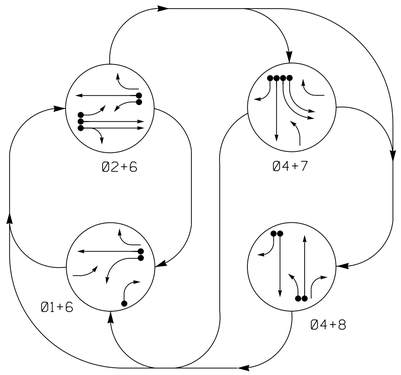
PROJECT REFERENCE NO.	SHEET NO.
R-5020B	Sig.26.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE 01+6	PHASE 02+6	PHASE 04+7	PHASE 04+8	FLASH
11	←	F Y	R	R	Y
21	F Y	F Y	R	R	Y
22,23	R	G	R	R	Y
41,42	R	R	G	G	R
61	G	G	R	R	Y
62	G	G	R →	R	Y
71,72	R	R	←	R	R
81	R	R	F Y	F Y	R
82	R	R	R	G	R
83	R →	R	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

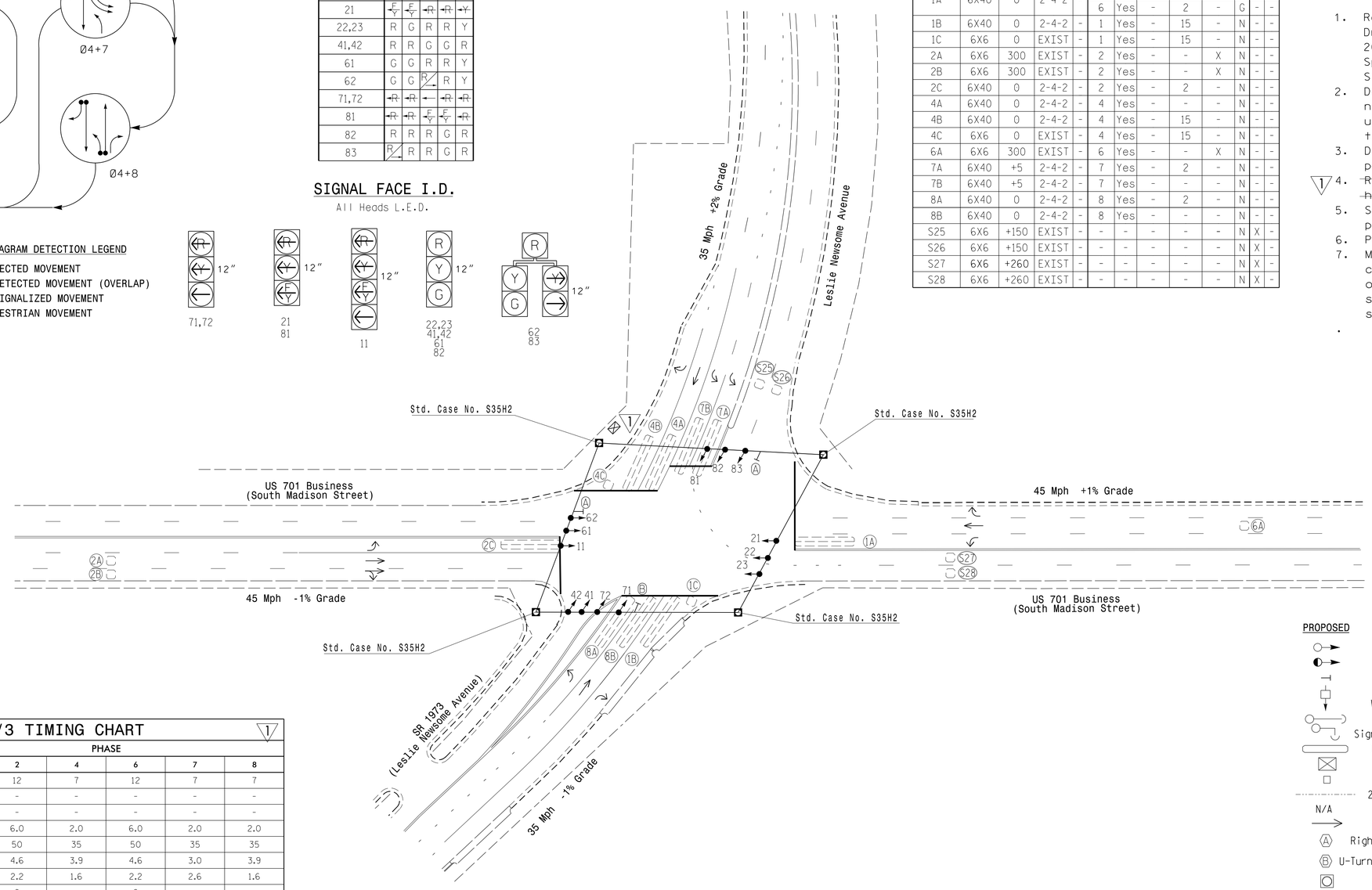
ASC/3 DETECTOR INSTALLATION CHART

LOOP	DETECTOR SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	15	-	N	-	-
					6	Yes	-	2	-	G	-	-
1B	6X40	0	2-4-2	-	1	Yes	-	15	-	N	-	-
1C	6X6	0	EXIST	-	1	Yes	-	15	-	N	-	-
2A	6X6	300	EXIST	-	2	Yes	-	-	X	N	-	-
2B	6X6	300	EXIST	-	2	Yes	-	-	X	N	-	-
2C	6X40	0	2-4-2	-	2	Yes	-	2	-	N	-	-
4A	6X40	0	2-4-2	-	4	Yes	-	-	-	N	-	-
4B	6X40	0	2-4-2	-	4	Yes	-	15	-	N	-	-
4C	6X6	0	EXIST	-	4	Yes	-	15	-	N	-	-
6A	6X6	300	EXIST	-	6	Yes	-	-	X	N	-	-
7A	6X40	+5	2-4-2	-	7	Yes	-	2	-	N	-	-
7B	6X40	+5	2-4-2	-	7	Yes	-	-	-	N	-	-
8A	6X40	0	2-4-2	-	8	Yes	-	2	-	N	-	-
8B	6X40	0	2-4-2	-	8	Yes	-	-	-	N	-	-
S25	6X6	+150	EXIST	-	-	-	-	-	-	N	X	-
S26	6X6	+150	EXIST	-	-	-	-	-	-	N	X	-
S27	6X6	+260	EXIST	-	-	-	-	-	-	N	X	-
S28	6X6	+260	EXIST	-	-	-	-	-	-	N	X	-

4 Phase
Fully Actuated
System #10605

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. Disable Backup Protect for phases 6 and 8.
4. ~~Reposition existing signal heads numbered 22 and 23.~~
5. Set all detector units to presence mode.
6. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



ASC/3 TIMING CHART

FEATURE	PHASE 1	PHASE 2	PHASE 4	PHASE 6	PHASE 7	PHASE 8
Min Green *	7	12	7	12	7	7
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	6.0	2.0	2.0
Max 1 *	35	50	35	50	35	35
Yellow	3.0	4.6	3.9	4.6	3.0	3.9
Red Clear	3.6	2.2	1.6	2.2	2.6	1.6
Actuations B4 Add *	-	0	-	0	-	-
Seconds /Actuation *	-	1.5	-	1.5	-	-
Max Initial *	-	34	-	34	-	-
Time Before Reduction *	-	15	-	15	-	-
Time To Reduce *	-	30	-	30	-	-
Minimum Gap	-	3.0	-	3.0	-	-
Locking Detector	-	X	-	X	-	-
Recall Position	-	VEH. RECALL	-	VEH. RECALL	-	-
Dual Entry	-	-	X	-	-	-
Simultaneous Gap	X	X	X	X	X	X

* 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	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
Ⓐ	Right Arrow "ONLY" Sign (R3-5R)	Ⓐ
Ⓑ	U-Turn Yield to Right Turn (R10-16)	Ⓑ
	Metal Strain Pole	

Signal Revision

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Revision Seal

NORTH CAROLINA PROFESSIONAL SEAL 14543 ENGINEER GENE G. MURRY, JR.

DocuSigned by: Gene G. Murry Jr. 5/15/2020
144D0B1D1C1D4D4... SIGNATURE DATE

Prepared for: Transportation Mobility and Safety Division, Signal Design Section, State of North Carolina Department of Transportation
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 40 1"=40'

US 701 Business
(South Madison Street)
at
SR 1973 (Leslie Newsome Avenue)
Division 06 Columbus County Whiteville

PLAN DATE: November 2012	REVIEWED BY:
PREPARED BY: Jeff Spence	REVIEWED BY:

REVISIONS	INIT.	DATE
Controller changed to ASC/3 with new cabinet	GGM	05/15/20

SEAL
Not a certified document. This document originally Issued and sealed by Pamela L.Alexander,PE. no.23489 on (1/24/13) This document shall not be considered a certified document.

SIGNATURE DATE
SIG. INVENTORY NO. 06-1272

5/15/2020
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USER:MCopple