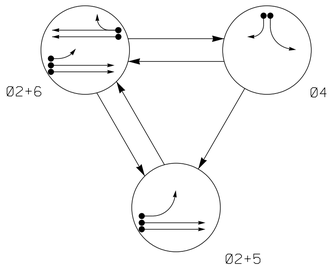
DocuSign Envelope ID: ABAC48C3-9D35-4C36-9241-BA2032DCEBFB

PROJECT REFERENCE NO.	SHEET NO.
R-5799	Sig. 12.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

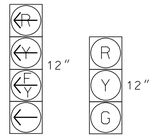
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 02+5	PHASE 02+6	PHASE 04	FLASH
21, 22	G	G	R	Y
41, 42	R	R	G	R
51	←	←FY	←R	←Y
61, 62	R	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



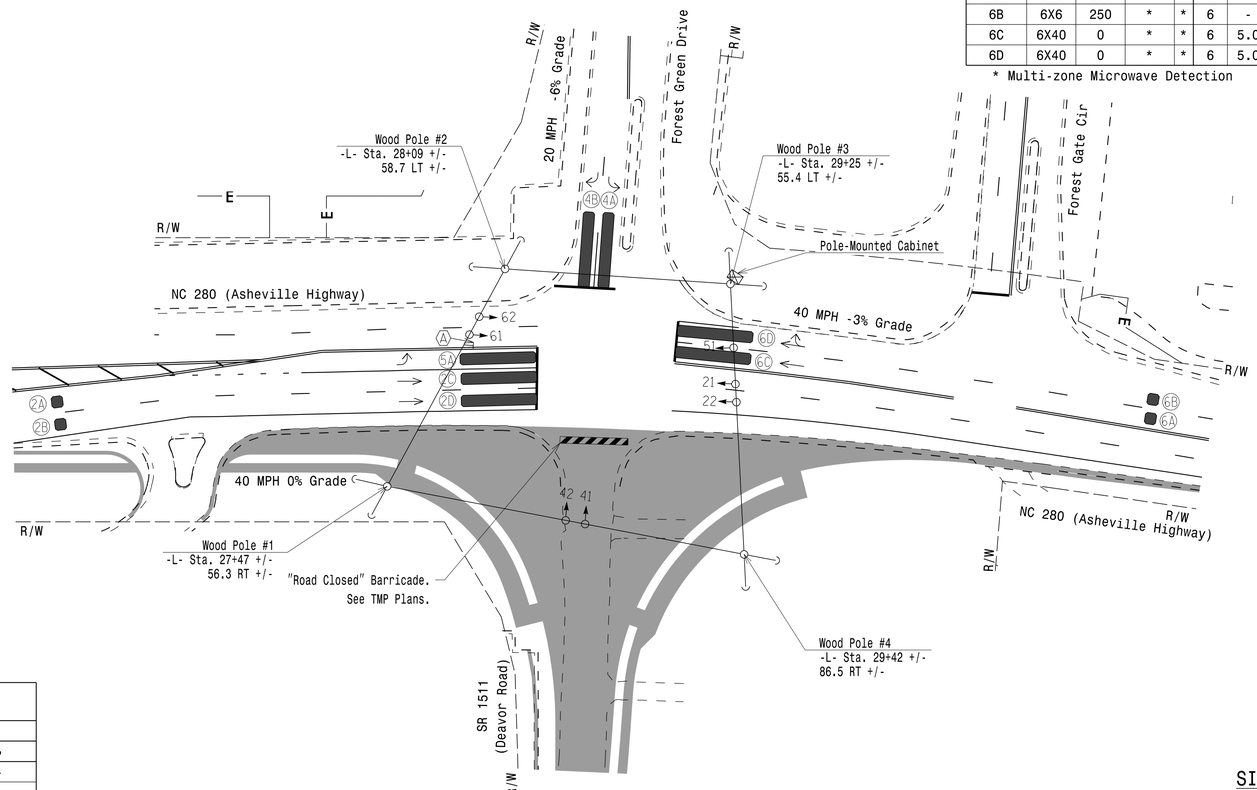
51

21, 22
41, 42
61, 62

MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A	6X6	250	*	*	2	-	-	X	-	-	*
2B	6X6	250	*	*	2	-	-	X	-	-	*
2C	6X40	0	*	*	2	5.0	2.0	X	-	X	*
2D	6X40	0	*	*	2	5.0	2.0	X	-	X	*
4A	6X40	0	*	*	4	3.0	-	X	-	X	*
4B	6X40	0	*	*	4	15.0	-	X	-	X	*
5A	6X40	0	*	*	5	15.0	-	X	-	X	*
					2	3.0	-	X	-	X	*
6A	6X6	250	*	*	6	-	-	X	-	-	*
6B	6X6	250	*	*	6	-	-	X	-	-	*
6C	6X40	0	*	*	6	5.0	2.0	X	-	X	*
6D	6X40	0	*	*	6	5.0	2.0	X	-	X	*

* Multi-zone Microwave Detection



MAXTIME TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 5	PHASE 6
Walk *	–	–	–	–
Ped Clear *	–	–	–	–
Min Green	12	7	7	12
Passage *	6.0	2.0	2.0	6.0
Max 1 *	90	20	15	90
Yellow Change	4.4	3.1	3.0	4.4
Red Clear	1.1	1.8	2.1	1.1
Added Initial *	–	–	–	–
Maximum Initial *	–	–	–	–
Time Before Reduction *	15	–	–	15
Time To Reduce *	30	–	–	30
Minimum Gap	3.0	–	–	3.0
Advance Walk	–	–	–	–
Non Lock Detector	–	X	X	–
Vehicle Recall	MIN. RECALL	–	–	MIN. RECALL
Dual Entry	–	–	–	–

* 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.

3 Phase
Fully Actuated
(Time Based Coordination)

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 5 may be lagged.
4. Set all detector units to presence mode.
5. Program controller to operate using FYA compact mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. See R-5799 TMP Phase V for pavement markings.
8. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
10. Furnish and install GPS Unit.

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
□→	Pedestrian Signal Head With Push Button & Sign	■→
⊣	Sign	⊣
○——○	Signal Pole with Guy	●——●
○—┐	Signal Pole with Sidewalk Guy	●—┐
▭	Inductive Loop Detector	▭
▬	Video Detection Zone	▬
⊠	Controller & Cabinet	⊠
□	Junction Box	■
▭	Oversized Junction Box	■
⊛	Type I Pushbutton Post	✤
⬡	Type II Signal Pedestal	⬢
⊡	Strain Pole	◘
▬	Construction Zone	▬
◢	Curb Ramp	◢
-·-·-·-	2-in Underground Conduit	-·-·-·-
——DD——	Directional Drill	N/A
——→	Directional Arrow	——→
N/A	Right of Way	————
——E——	Temp. Construction Easement	N/A

SIGNS

PROPOSED		EXISTING
Ⓐ	No Left Turn Sign (R3-2)	Ⓐ

Temporary Signal 1 - TCP Phase IV

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE No: F-0493
1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
(704) 752-0610

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

NC 280 (Asheville Highway)
at
SR 1511 (Deavor Road) /
Forest Gate Drive

Division 14 Transylvania County Brevard

PLAN DATE:	April 2023	REVIEWED BY:	S.G. Haynie
PREPARED BY:	P. Koloski	REVIEWED BY:	

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029531 ENGINEER STEVEN G. HAYNIE

DocuSigned by: Steven G. Haynie 4/28/2023
SIGNATURE DATE

Sig Inventory No. 14-1146T1

4/28/2023
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