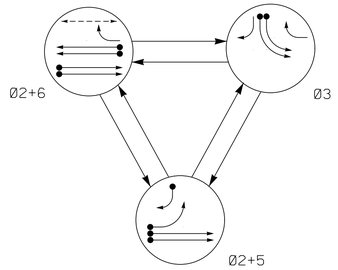
PROJECT REFERENCE NO.	SHEET NO.
U-5797	Sig. 23.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

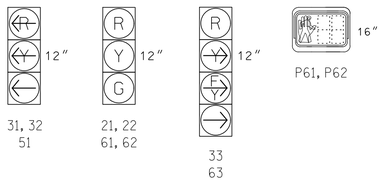
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+5	PHASE Ø2+6	PHASE Ø3	FLASH
21, 22	G	G	R	R
31, 32	←R	←R	←R	←R
33	→	R	F→	R
51	←R	←R	←R	←R
61, 62	R	G	R	R
63	R	F→	→	R
P61, P62	DW	W	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



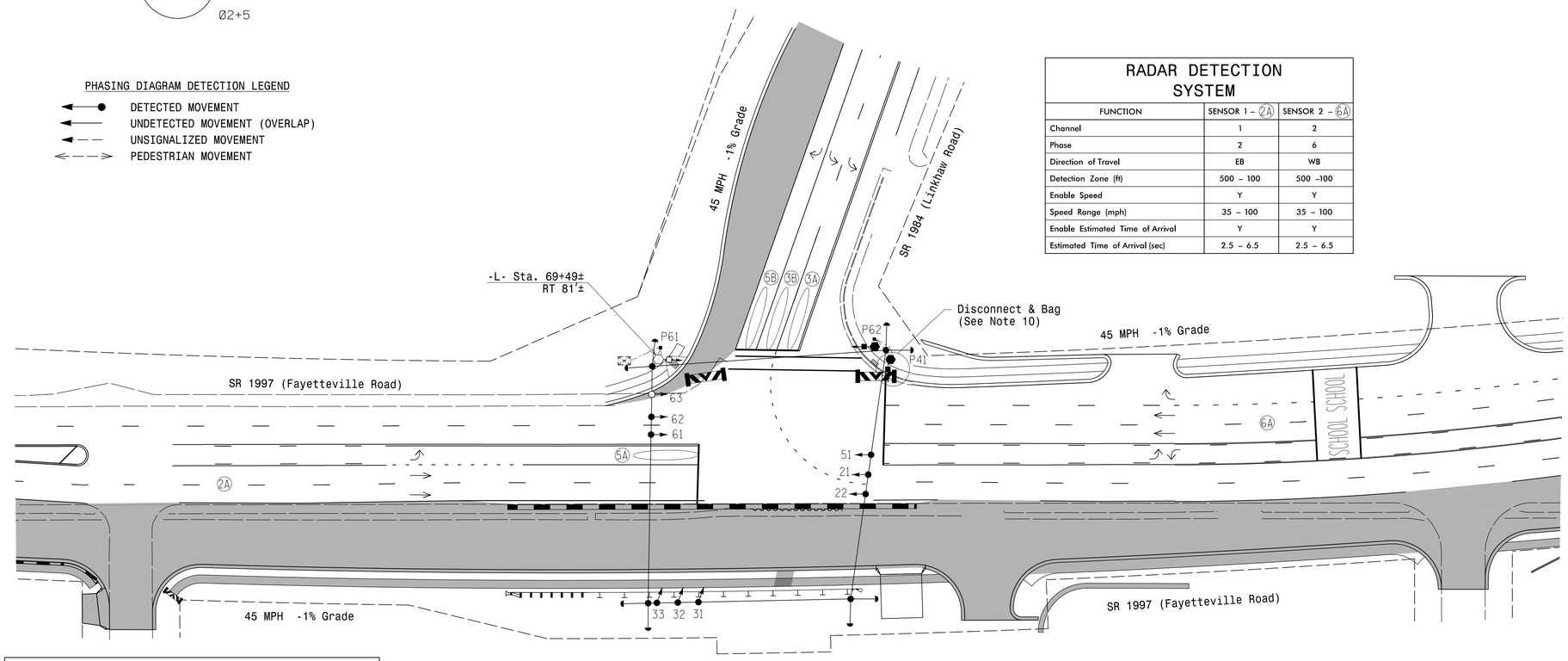
MAXTIME DETECTOR INSTALLATION CHART

DETECTOR LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
3A	6X40	0	✳	✳	3	3	-	X	-	X	-	✳
3B	6X40	0	✳	✳	3	-	-	X	-	X	-	✳
5A	6X40	0	✳	✳	5	3	-	X	-	X	-	✳
5B	6X40	0	✳	✳	5	15	-	X	-	X	-	✳

✳ Multi-zone Microwave Detection Zone

RADAR DETECTION SYSTEM

FUNCTION	SENSOR 1 – (2A)	SENSOR 2 – (6A)
Channel	1	2
Phase	2	6
Direction of Travel	EB	WB
Detection Zone (ft)	500 – 100	500 –100
Enable Speed	Y	Y
Speed Range (mph)	35 – 100	35 – 100
Enable Estimated Time of Arrival	Y	Y
Estimated Time of Arrival (sec)	2.5 – 6.5	2.5 – 6.5



MAXTIME TIMING CHART

FEATURE	PHASE 2	PHASE 3	PHASE 5	PHASE 6
Walk *	–	–	–	14
Ped Clear *	–	–	–	22
Min Green	12	7	7	12
Passage *	2.0	2.0	2.0	2.0
Max 1 *	90	30	20	90
Yellow Change	4.6	3.0	3.0	4.6
Red Clear	1.7	3.3	2.9	1.7
Added Initial *	–	–	–	–
Maximum Initial *	–	–	–	–
Time Before Reduction *	–	–	–	–
Time To Reduce *	–	–	–	–
Minimum Gap	–	–	–	–
Advance Walk	–	–	–	7
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
Signal System #D06-17 Lumberton
US 301 and SR 1997 (Fayetteville Road)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
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. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. Pavement markings are existing.
8. This intersection uses video 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. Bag and disconnect existing pedestrian signal head numbered P41.

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
□↓	Pedestrian Signal Head With Push Button & Sign	■↓
○	Signal Pole with Guy	●
◎	Metal Strain Pole	◘
▭	Inductive Loop Detector	▭
⊠	Controller & Cabinet	⊠
□	Junction Box	■
----------	2-in Underground Conduit	----------
— DD —	Directional Drill	N/A
N/A	Right of Way	- - - - -
→	Directional Arrow	→
⬡	Type II Signal Pedestal	⬢
N/A	Curb Ramp	◢
N/A	Guardrail	⊥⊥
▩	Construction Zone	▩
⋈	Pedestrian Barricade	⋈
▬	Portable Barrier	▬
~~	Temporary Shoring	~~~
⬭	Microwave Detection Zone	⬭

Signal Upgrade
Temporary Design 2 - TMP Phase II, Step 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

stv
STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
(704) 372-1885
NC License Number F-0991

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

SCALE 0 40 1"=40'

SR 1997 (Fayetteville Road)
at
SR 1984 (Linkhaw Road)

Division 6 Robeson County Lumberton

PLAN DATE: Feb 2025 REVIEWED BY: H.W. Surti
PREPARED BY: R.L. Aristondo REVIEWED BY: T.M. Moody

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 040329 ENGINEER TRENT M. MOODY

DocuSigned by: Trent Moody 03/19/2025
SIGNATURE DATE

SIG. INVENTORY NO. 06-0537T2

2/21/2025
24:\Projects\4018560\4018560_0001\50_Deliverables & Submittals\U-5797\Traffic\65Signals\Temporary Signals\06-0537 (Fayetteville-Linkhaw)\06053TT2_sig_dsn_2024xxxx.dgn
LeonAR