**EXISTING** 

**-**

N/A

 $\longrightarrow$ 

N/A

 $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ 

XY/

\_\_\_\_E\_\_

\_\_\_\_ DUE\_\_\_

----- PDE ----

## 4 Phase Fully Actuated (Time Based Coordination)

## 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 1 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- 6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 7. Program pedestrian heads to countdown the flashing "Don't Walk" time only
- Remove existing Yield Ahead Sign.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- 10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

**LEGEND** 

Traffic Signal Head

Modified Signal Head

Sign Pedestrian Signal Head

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
1A	*	0	*	Χ	1	-	-	Χ	_	Χ	-	*
2A	*	70	*	-	2	-	-	Χ	-	Χ	-	*
2B	*	0	*	-	2	-	-	Χ	_	Χ	-	*
3A	*	0	*	Х	3	-	-	Χ	=	Χ	-	*
3B	*	0	*	Х	3	-	-	Χ	-	Χ	-	*
4A	*	0	*	-	4	5.0	-	Χ	_	Χ	-	*
6A	*	70	*	Х	6	-	-	Χ	_	Χ	_	*
6B	*	70	*	Χ	6	-	-	Χ	-	Χ	-	*

MAXTIME DETECTOR INSTALLATION CHART

## PHASING DIAGRAM DETECTION LEGEND DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT $<\!\!--\!\!>$ PEDESTRIAN MOVEMENT

PHASING DIAGRAM

TABLE OF OPERATION

SIGNAL

FACE

21

22,23

31,32

42

61,62

P21**,**P22

P31,P32

\*

PHASE

╌│<del>⋖</del>┞│<del>⋖</del>┞│<del>⋖</del>┞

R | <del>- R | - R | - F</del>

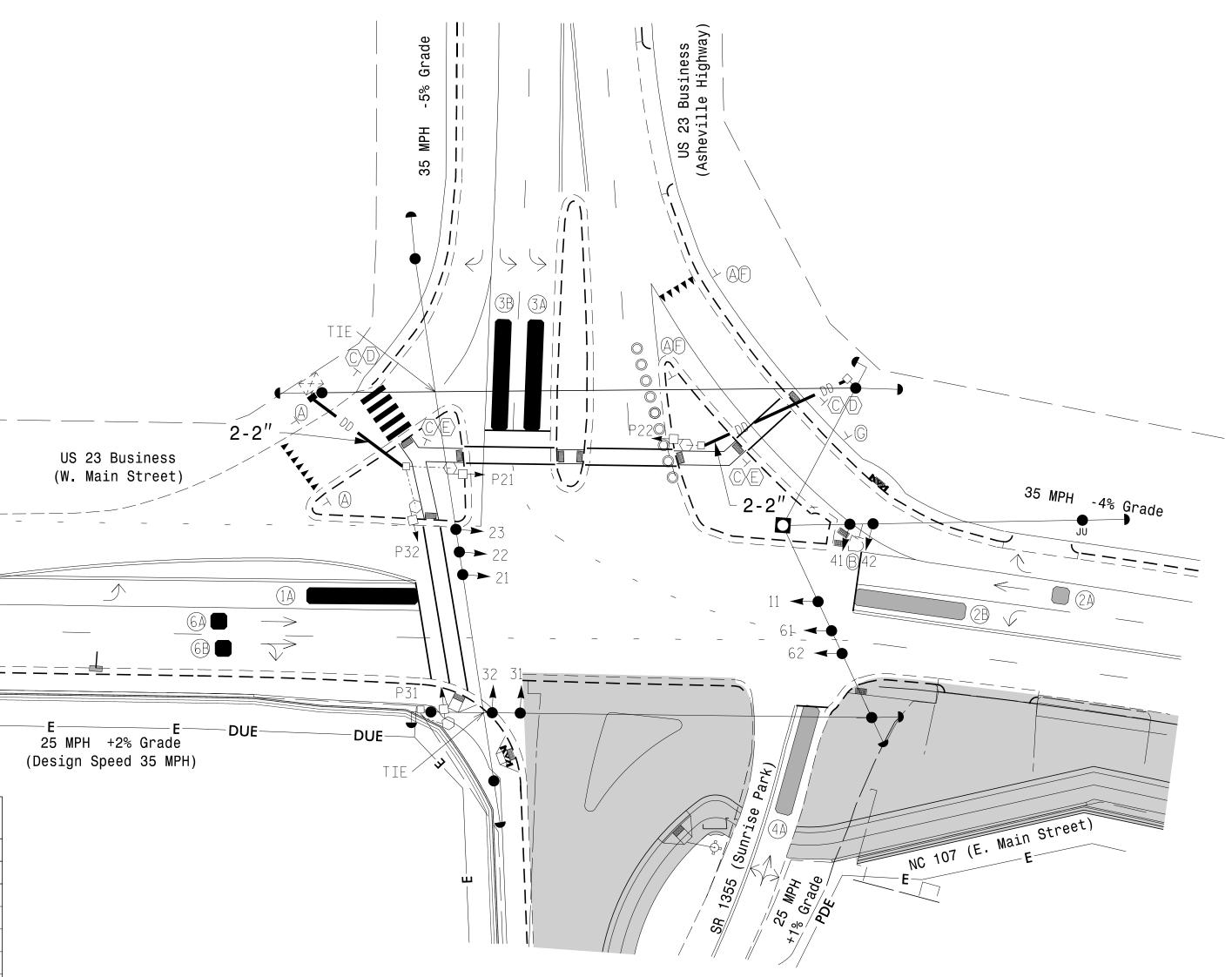
| R | R | G |

GRR

DW | W | DW | DW | DR

DW DW W DW DR

11 31,32



SIGNAL FACE I.D.

All Heads L.E.D.

22, 23 42 61, 62

P21, P22 P31, P32

<b>O</b>	
	Siq
N/A ->	
DD	
	No
₩ N/A	

N/A

N/A

N/A

N/A

**PROPOSED** 

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With Push Button & Sign Signal Pole with Guy ignal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box Oversized Junction Box 2-in Underground Conduit Right of Way Directional Arrow Curb Ramp Truncated Domes Directional Drill on-Intrusive Detection Zone Construction Zone Type I Pushbutton Post Type II Signal Pedestal Tubular Markers Work Zone Traffic Barricade Construction Easement Perm. Drainage/Utility Easement Perm. Drainage Easement "YIELD" Sign (R1-2) "NO TURN ON RED" Sign (R10-11a) Pedestrian Crossing Sign (W11-2) Left Downward Diagonal Arrow Plaque (W16-7pL) Right Downward Diagonal Arrow Plaque (W16-7pR) "NO MERGE AREA" Plaque (W4-5P) Yield Ahead Sign (W3-2)

13 Ped Clear 15 18 10 10 Min Green 3.0 2.0 2.0 2.0 3.0 Passage \* Max 1 \* 25 70 50 20 85 4.1 3.0 4.1 4.2 3.1 Yellow Change 2.9 3.7 Red Clear 3.3 4.0 3.7 Added Initial \* Maximum Initial? Time Before Reduction Time To Reduce \_ Minimum Gap \_ Advance Walk 6 \_

MAXTIME TIMING CHART

2

FEATURE

Non Lock Detector

Vehicle Recall

**PHASE** 

6

MIN RECALL

**Plans Prepared By:** DRMP, INC. 8210 UNIVERSITY EXECUTIVE PARK DR. SUITE 220 CHARLOTTE, NC 28262 NC LICENSE NO. F-1524 (704) 549-4260



1"=30'

Signal Upgrade

Temporary Design 2 - TMP Ph1, S2

US 23 Bus /NC 107 (Main Street) US 23 Bus. (Asheville Highway), SR 1355 (Sunrise Park)

	( ) ( )	0 0 . 0	· · · · <i>,</i>	
Division	14 Jackson	County		Sylva
PLAN DATE:	August 2025	REVIEWED BY:	ZM Esp	osito
PREPARED BY:	DJ White	REVIEWED BY:	BN Gro	ome
	REVISIONS		INIT.	DATE

SEAL CARn052936

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL SIGNATURES COMPLETED

Brittary Groome 8/26/2025 SIG. INVENTORY NO. 14-03971

Dual Entry \* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

MIN RECALL