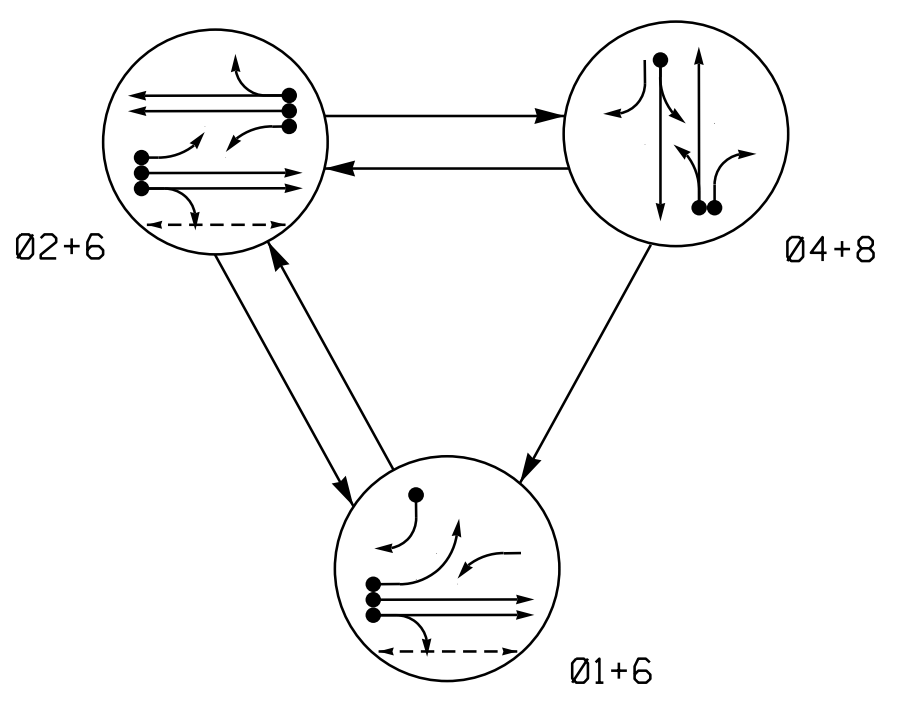


**PHASING DIAGRAM**

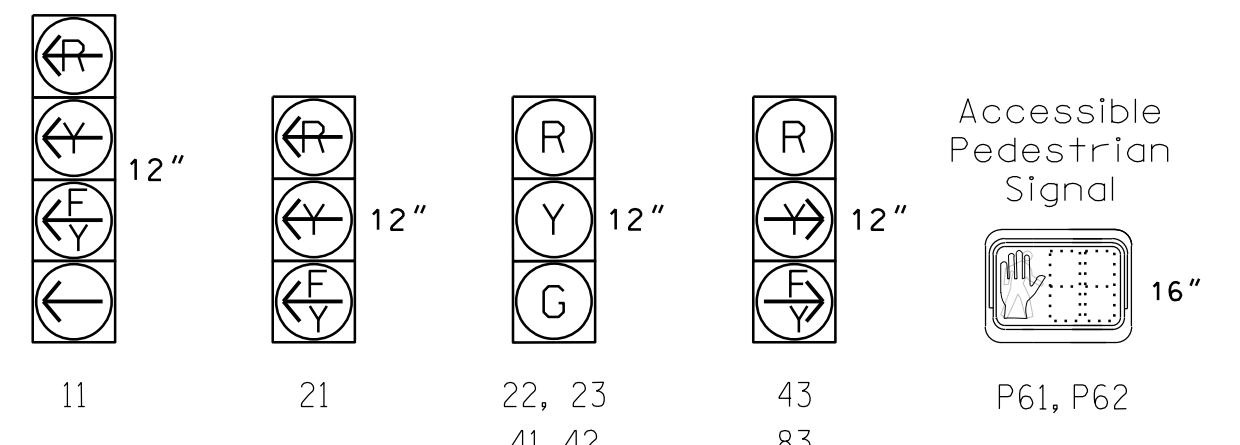


**TABLE OF OPERATION**

SIGNAL FACE	PHASE			
	01+6	02+6	04+8	FLASH
11	F	R	R	Y
21	F	F	R	Y
22, 23	R	G	R	Y
41, 42	R	R	G	R
43	R	R	F	R
61, 62	G	G	R	Y
81, 82	R	R	G	R
83	F	R	F	R
P61, P62	W	W	DW	DRK

**SIGNAL FACE I.D.**

All Heads L.E.D.



**MAXTIME DETECTOR INSTALLATION CHART**

ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	NEW CARD	
1A	6X40	0	*	*	1	15	-	X	-	X	-	*
					6	-	-	X	-	X	X	*
1B	6X40	0	*	*	1	15	-	X	-	X	-	*
2A	6X6	70	*	*	2	-	-	X	-	X	-	*
2B	6X6	70	*	*	2	-	-	X	-	X	-	*
2C	6X40	0	*	*	2	-	-	X	-	X	-	*
4A	6X40	0	*	*	4	3	-	X	-	X	-	*
4B	6X40	0	*	*	4	15	-	X	-	X	-	*
6A	6X6	70	*	*	6	-	-	X	-	X	-	*
6B	6X6	70	*	*	6	-	-	X	-	X	-	*
8A	6X40	0	*	*	8	3	-	X	-	X	-	*

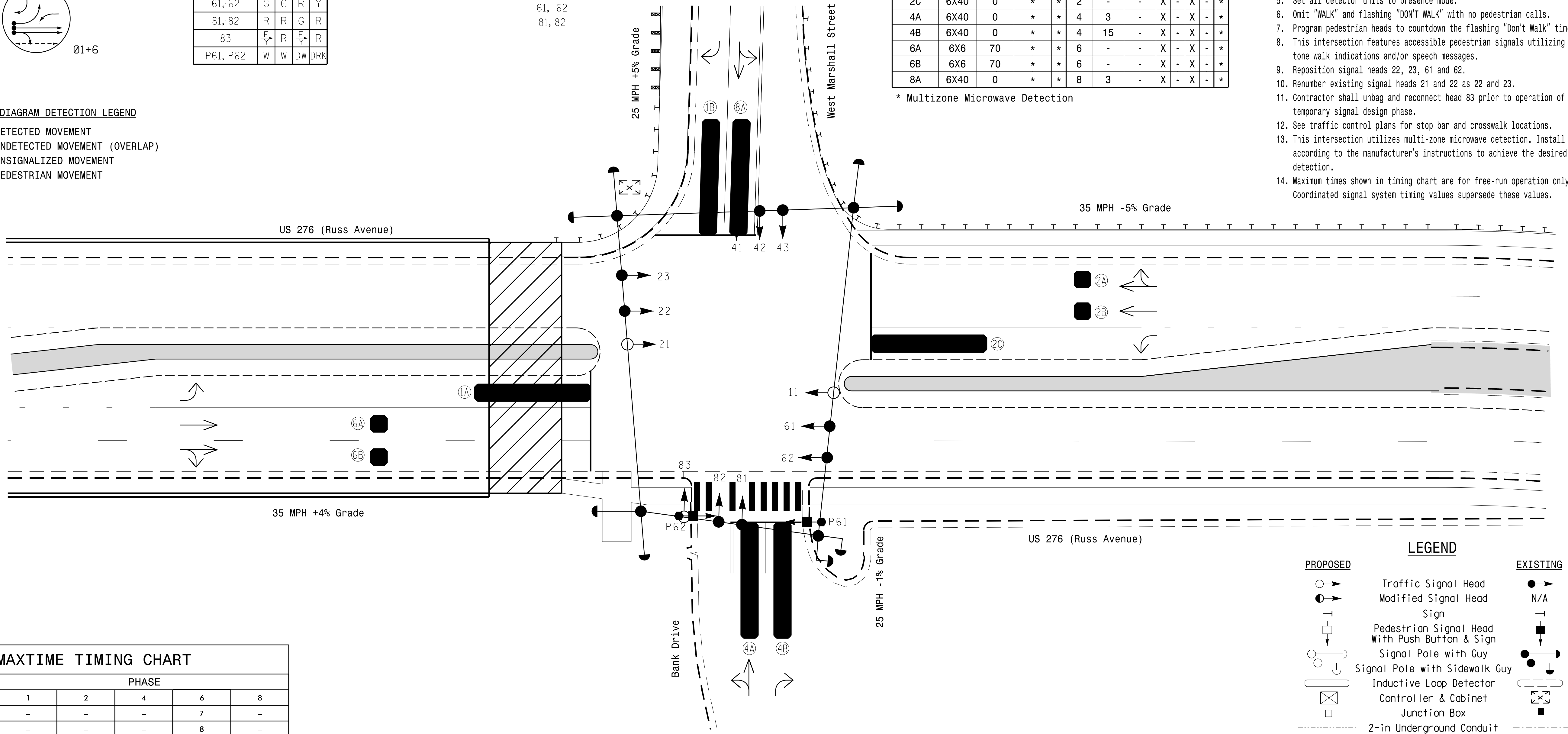
\* Multizone Microwave Detection

**3 Phase Fully Actuated D14-12 Waynesville NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Disable Backup Protect for phase 6.
- Phase 1 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- This intersection features accessible pedestrian signals utilizing percussive tone walk indications and/or speech messages.
- Reposition signal heads 22, 23, 61 and 62.
- Renumber existing signal heads 21 and 22 as 22 and 23.
- Contractor shall unbag and reconnect head 83 prior to operation of this temporary signal design phase.
- See traffic control plans for stop bar and crosswalk locations.
- This intersection utilizes multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

**PHASING DIAGRAM DETECTION LEGEND**

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



**MAXTIME TIMING CHART**

FEATURE	PHASE				
	1	2	4	6	8
Walk *	-	-	-	7	-
Ped Clear *	-	-	-	8	-
Min Green	7	10	7	10	7
Passage *	2.0	3.0	2.0	3.0	2.0
Max 1 *	15	45	25	45	25
Yellow Change	3.0	4.2	3.2	4.2	3.0
Red Clear	2.8	2.2	2.4	2.2	2.5
Added Initial *	-	-	-	-	-
Maximum Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Advance Walk	-	-	-	-	-
Non Lock Detector	X	-	X	-	X
Vehicle Recall	-	MIN RECALL	-	MIN RECALL	-
Dual Entry	-	-	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.

**ACCESSIBLE PEDESTRIAN SIGNAL OPERATION**

SIGNAL FACE	VOICE TONES	INTERVAL	SPEECH MESSAGE
P61	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Bank.
P62	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Bank.

**LEGEND**

- PROPOSED**
  - Traffic Signal Head
  - Modified Signal Head
  - 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
  - Right of Way
  - Directional Arrow
  - Microwave Detection Zone
  - Construction Zone
  - Type II Signal Pedestal
- EXISTING**
  - N/A
  - Signal Pole with Sidewalk Guy
  - Controller & Cabinet
  - Junction Box
  - 2-in Underground Conduit
  - Right of Way
  - Directional Arrow
  - N/A
  - N/A
  - N/A

**Signal Upgrade Temporary Design 3 - (TMP Phase III)**

Infrastructure Consulting Services, Inc.

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Division 14 Haywood County Waynesville

PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton

PREPARED BY: TS Popelka RKA PROJ. NO.: 16085 (040)

REVISIONS	INIT.	DATE

SEAL

William J. Hamilton  
ENGINEER  
SEAL 32396

DATE: 04/11/2023  
SIGNATURE: [Signature]  
SIC. INVENTORY NO. 14-0685T3