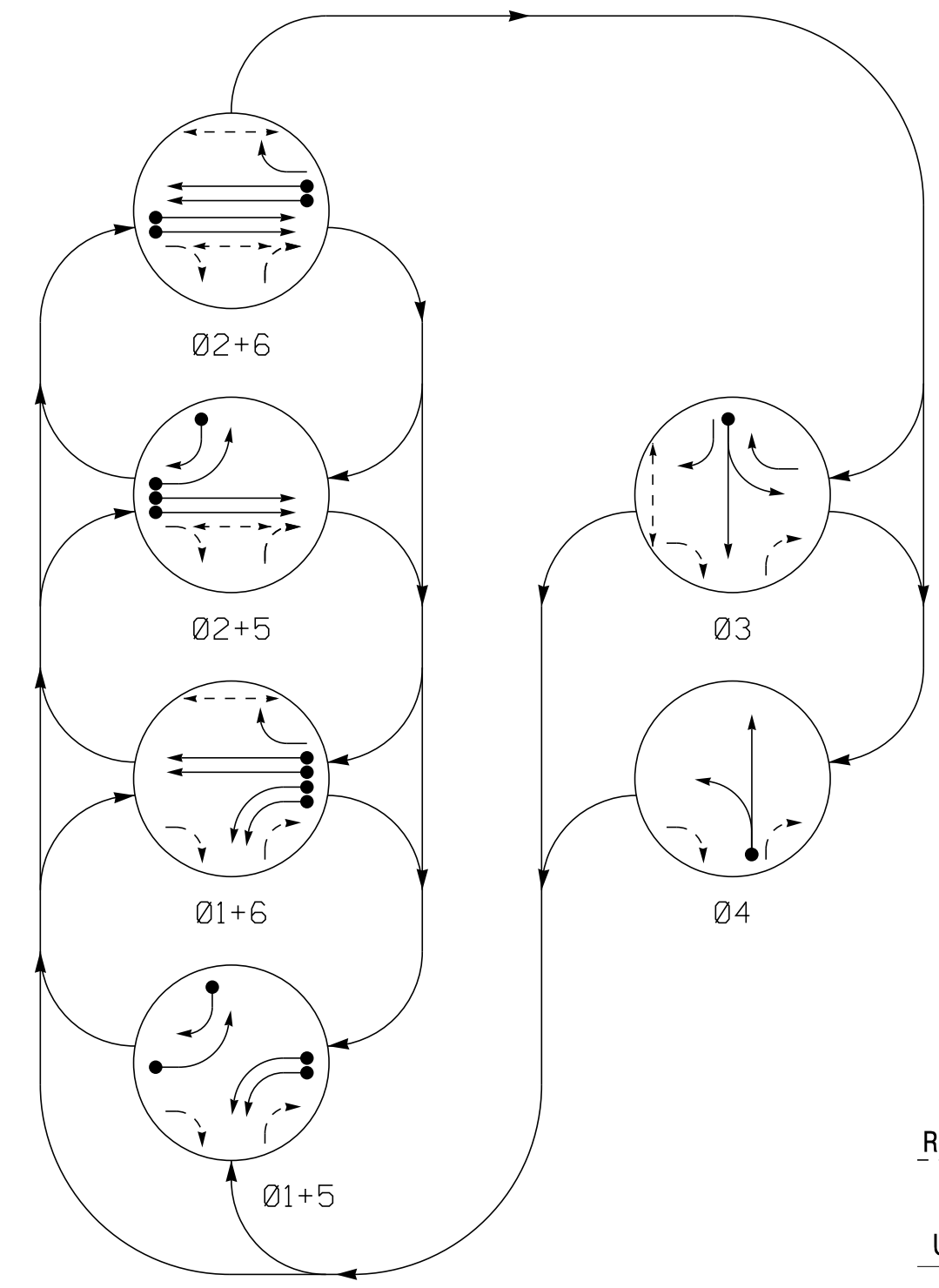


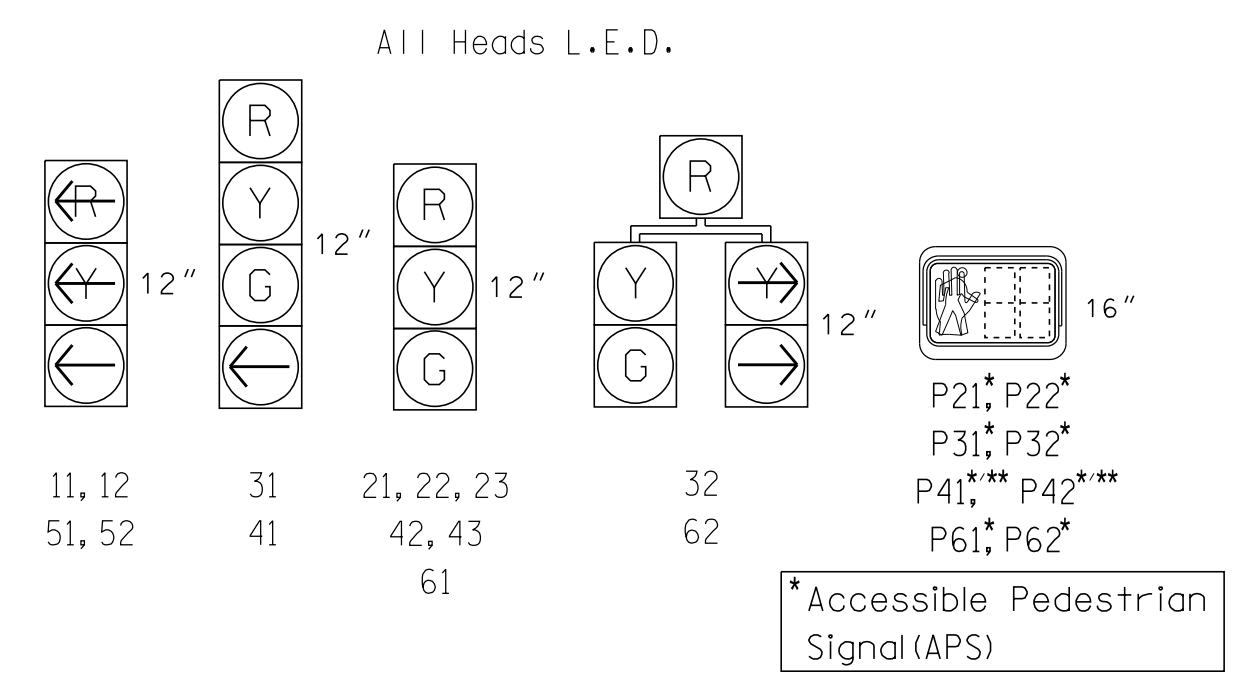
PHASING DIAGRAM



**PHASING DIAGRAM DETECTION LEGEND**

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

SIGNAL FACE I.D.



**TABLE OF OPERATION**

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	03	04
11, 12	←	←	←	←	←	←
21, 22, 23	R	R	G	G	R	Y
31	R	R	R	R	G	R
32	R	R	R	R	G	R
41	R	R	R	R	R	C
42, 43	R	R	R	R	R	G
51, 52	←	←	←	←	←	←
61	R	G	R	G	R	Y
62	R	G	R	G	R	Y
P21, P22	DW	DW	W	W	DW	DRK
P31, P32	DW	DW	DW	DW	DW	DRK
P41, P42*	DRK	DRK	DRK	DRK	DRK	DRK
P61, P62	DW	W	DW	W	DW	DRK

\*See Note 5

**MAXTIME DETECTOR INSTALLATION CHART**

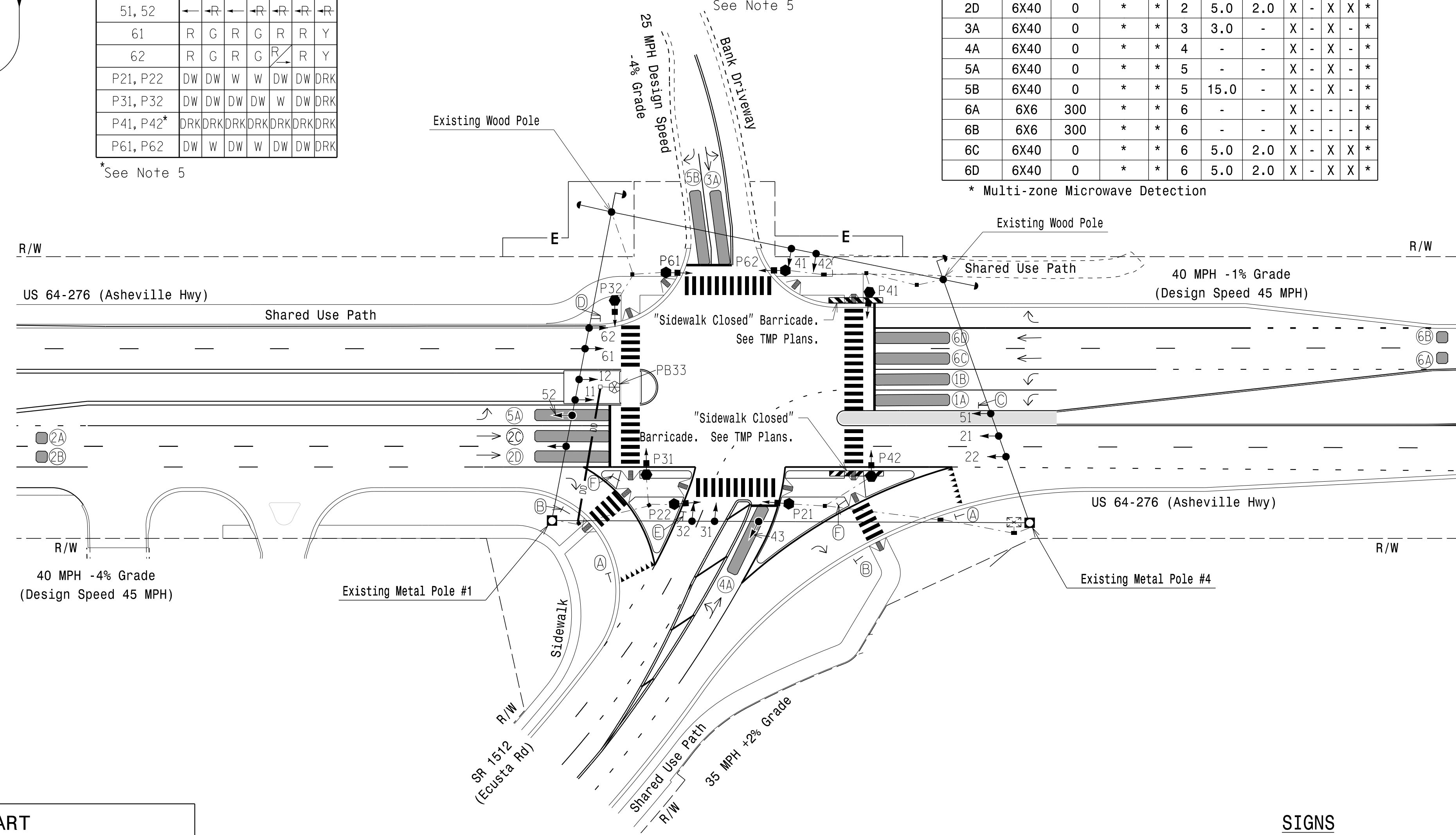
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL CALL	CALL DURING GREEN	NEW CARD	
1A	6X40	0	*	*	1	-	-	X	-	X	-	*
1B	6X40	0	*	*	1	-	-	X	-	X	-	*
2A	6X6	300	*	*	2	-	-	X	-	-	-	*
2B	6X6	300	*	*	2	-	-	X	-	-	-	*
2C	6X40	0	*	*	2	5.0	2.0	X	-	X	X	*
2D	6X40	0	*	*	2	5.0	2.0	X	-	X	X	*
3A	6X40	0	*	*	3	3.0	-	X	-	X	-	*
4A	6X40	0	*	*	4	-	-	X	-	X	-	*
5A	6X40	0	*	*	5	-	-	X	-	X	-	*
5B	6X40	0	*	*	5	15.0	-	X	-	X	-	*
6A	6X6	300	*	*	6	-	-	X	-	-	-	*
6B	6X6	300	*	*	6	-	-	X	-	-	-	*
6C	6X40	0	*	*	6	5.0	2.0	X	-	X	X	*
6D	6X40	0	*	*	6	5.0	2.0	X	-	X	X	*

\* Multi-zone Microwave Detection

6 Phase Fully Actuated (Time Based Coordination)

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.
- Phase 1 or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Bag existing pedestrian heads P41 and P42 and temporarily disable associated pushbuttons.
- 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 uses 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.
- Portions of detector zones 4A and 5A not shown for clarity.
- See pavement marking plans for proposed stop bar locations.
- All edestrian push buttons shall be Vibro-Tactile.
- All APS shall use "Rapid Tick" sound.



MAXTIME TIMING CHART

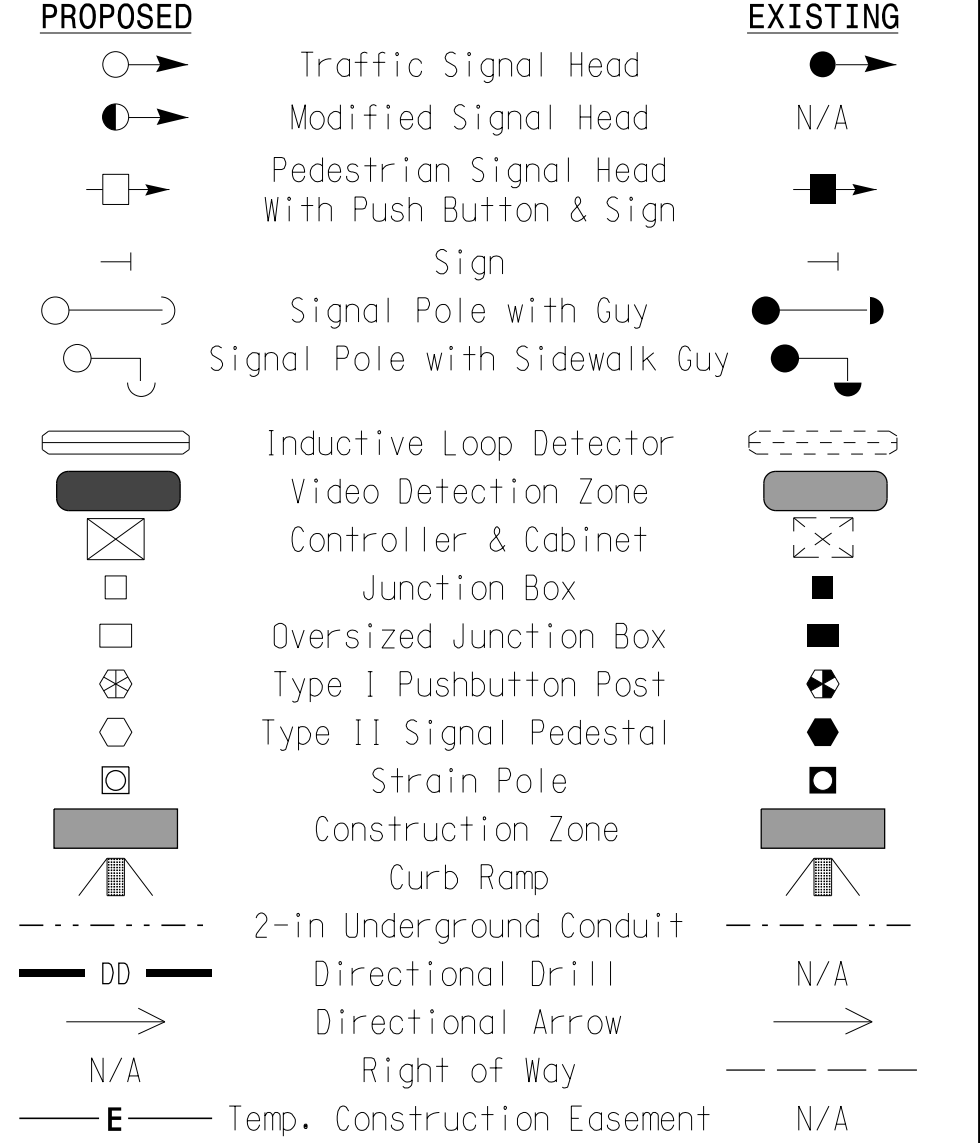
FEATURE	PHASE					
	1	2	3	4	5	6
Walk *	-	7	7	-	-	7
Ped Clear *	-	10	20	-	-	13
Min Green	7	12	7	7	7	12
Passage *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	25	90	15	20	15	90
Yellow Change	3.0	4.5	3.4	3.7	3.0	4.5
Red Clear	3.3	2.2	3.1	2.7	3.3	2.2
Added Initial *	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.0
Advance Walk	-	-	-	-	-	-
Non Lock Detector	X	-	X	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.

ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

SIGNAL FACE	VOICE	TONES	INTERVAL	SPEECH MESSAGE
P21	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait, wait to cross Ecusta.
P22	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait, wait to cross Ecusta.
P31	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait, wait to cross Asheville.
P32	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait, wait to cross Asheville.
PB33	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait, wait to cross Asheville.
P61	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait, wait to cross Driveway.
P62	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait, wait to cross Driveway.

LEGEND



SIGNS

- PROPOSED**
- (A) "YIELD" Sign (R1-2)
  - (B) Pedestrian Crossing Sign (W11-2) w/ Left Downward Diagonal Plaque (W16-7pL)
  - (C) U-Turn "MUST YIELD" Sign
  - (E) Turning Vehicles Yield to Peds Sign (R10-15R)
  - (F) Pedestrian Crossing Sign (W11-2) w/ Right Downward Diagonal Plaque (W16-7pR)
- EXISTING**
- (A)
  - (B)
  - (C)
  - (E)
  - (F)

Temporary Signal 6 - TCP Phase VI Step 2

Prepared for the Offices of:

**US 64-276 (Asheville Highway) at SR 1512 (Ecusta Road) / Bank Driveway**

Division 14 Transylvania County Brevard

PLAN DATE: May 2023 REVIEWED BY: S.G. Haynie

PREPARED BY: P. Koloski REVIEWED BY:

REVISIONS: INITI. DATE

SCALE: 1"=40'

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 029531  
Steven G. Haynie  
5/4/2023

DocuSigned by: Steven G. Haynie  
14-079816

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