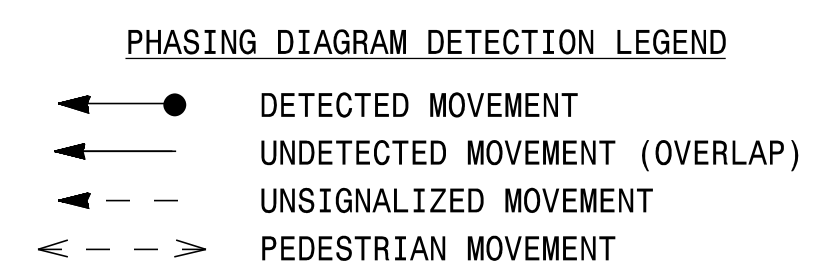
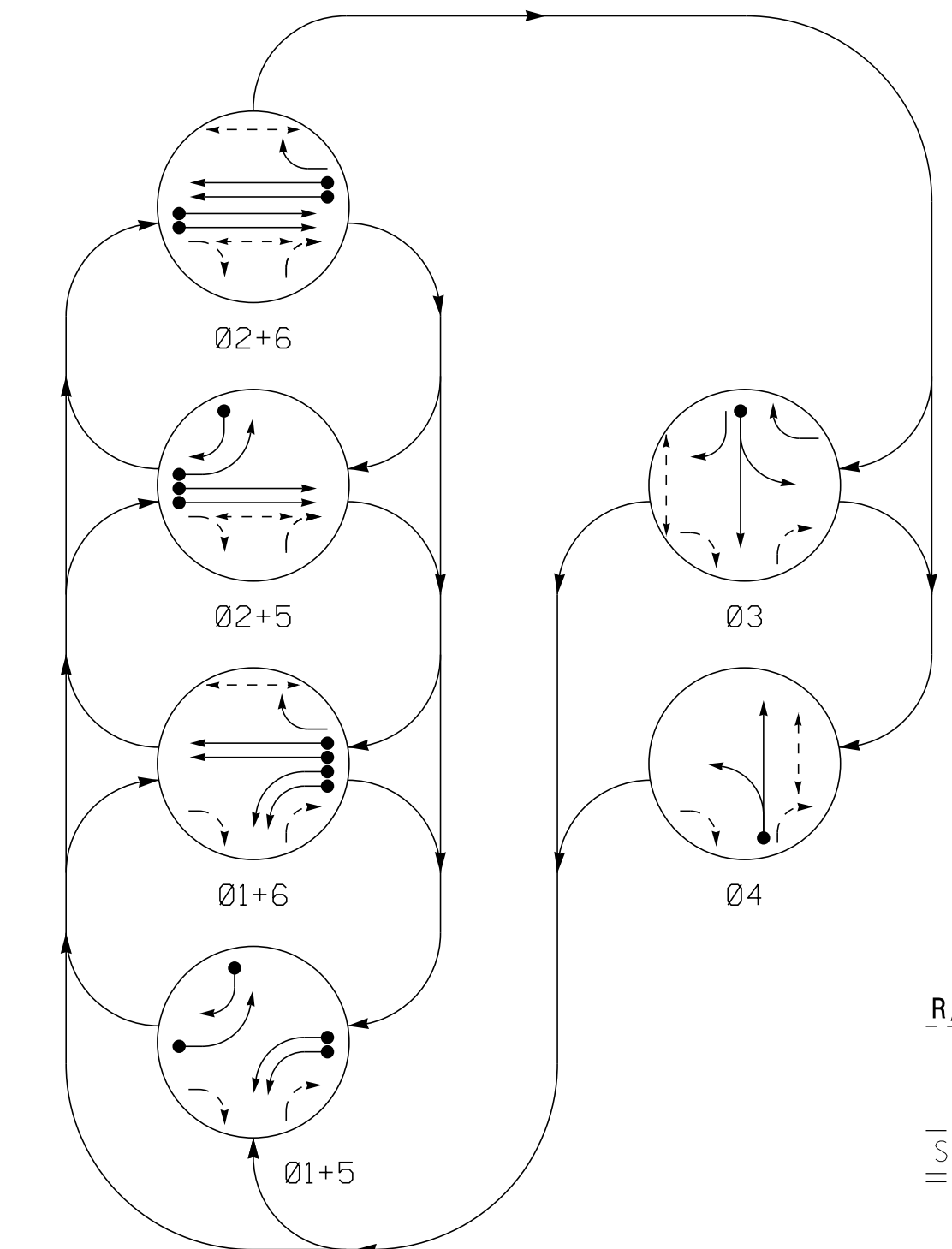


PHASING DIAGRAM



SIGNAL FACE I.D.

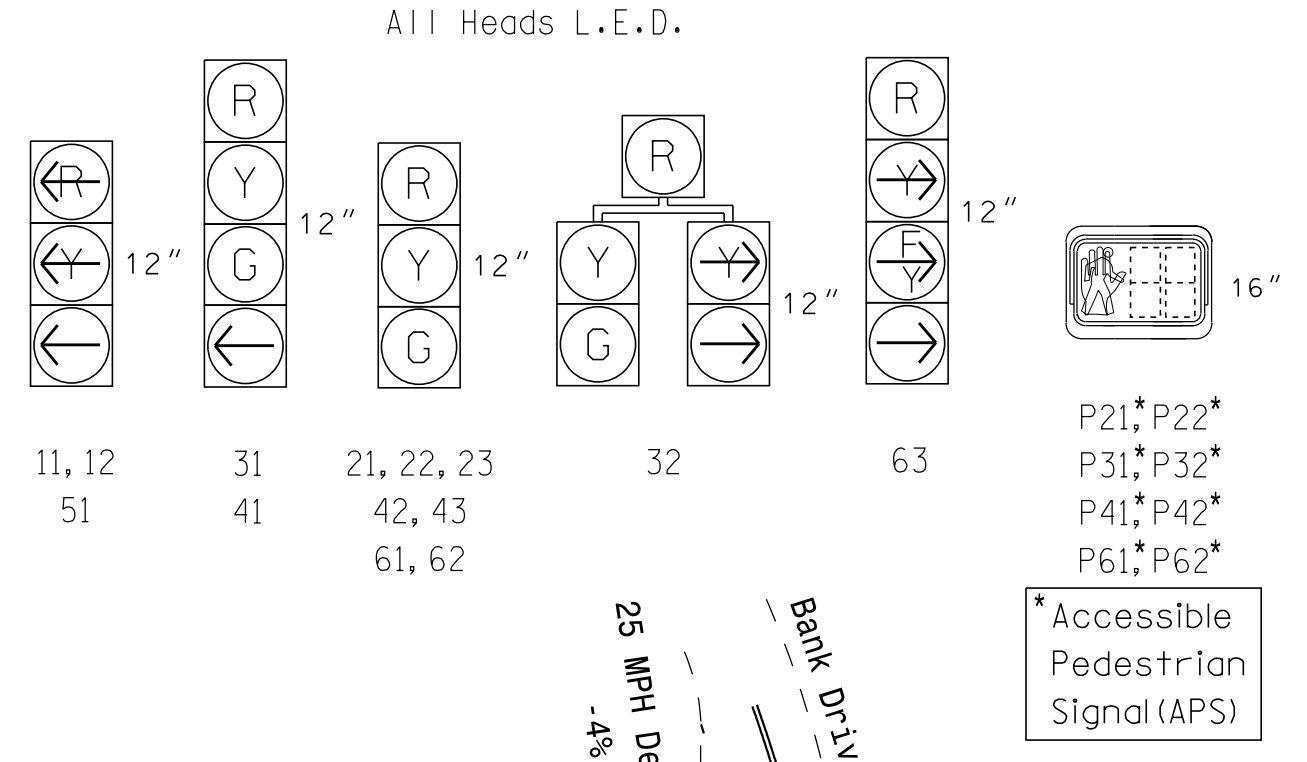


TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	02+5	03	04	05	06
11, 12	←	←	←	←	←	←
21, 22, 23	R	R	G	G	R	R
31	R	R	R	G	R	R
32	R	R	R	R	G	R
41	R	R	R	R	G	R
42, 43	R	R	R	R	G	R
51	←	←	←	←	←	←
61	R	G	R	G	R	Y
62	R	G	R	G	R	Y
63	R	R	R	R	Y	Y
P21, P22	DW	DW	W	DW	DW	DRK
P31, P32	DW	DW	DW	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DRK

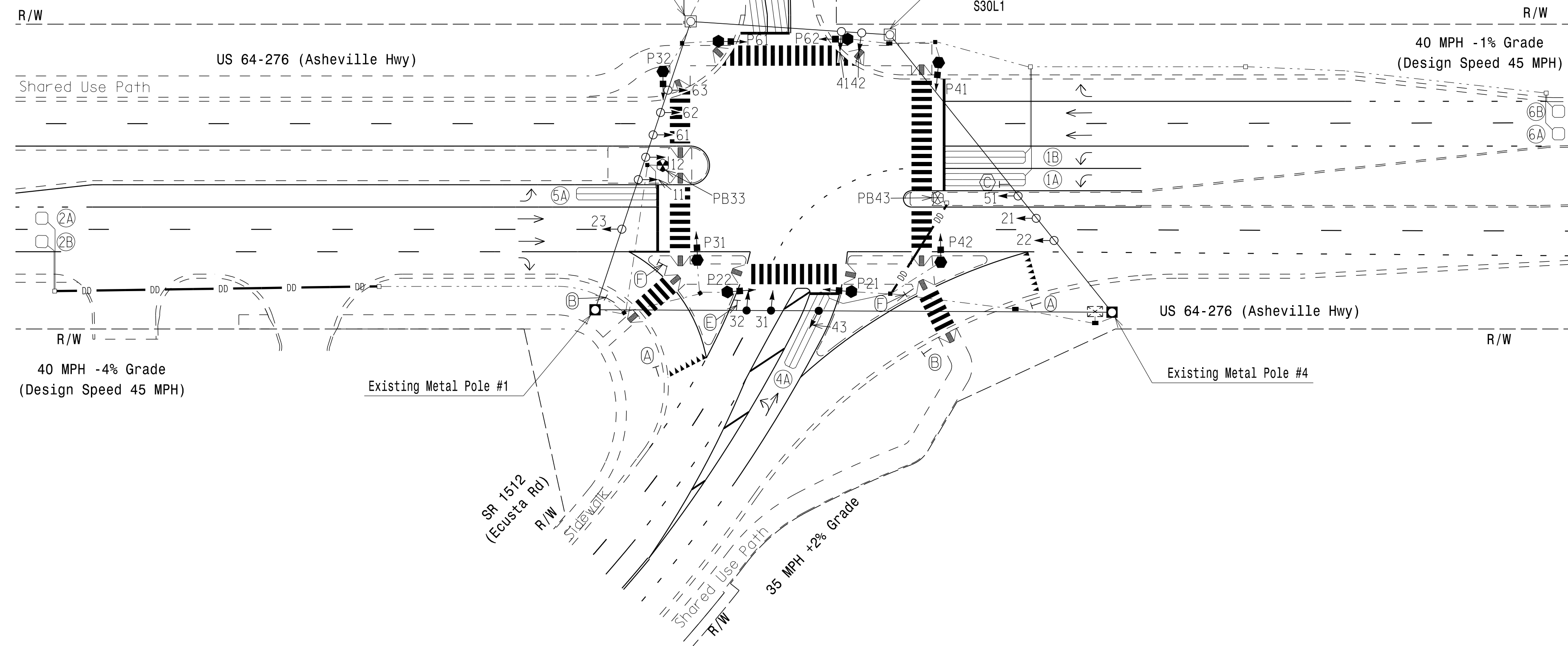
MAXTIME DETECTOR INSTALLATION CHART

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

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.
- 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.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Portions of high-visibility crosswalk not shown for clarity.
- See pavement marking plans for proposed stop bar locations.
- All pedestrian pushbuttons shall be Vibro-Tactile.
- All APS shall use "Rapid Tick" sound.



ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

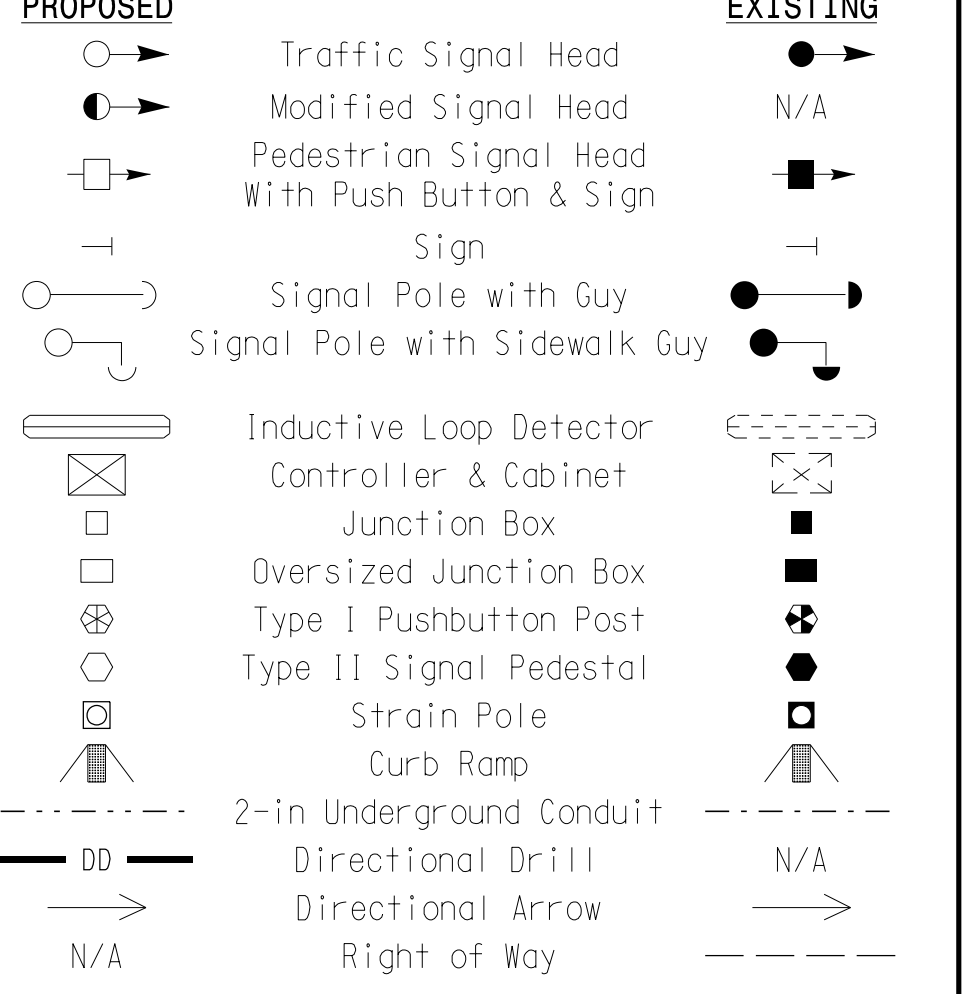
SIGNAL FACE	VOICE TONES	INTERVAL	SPEECH MESSAGE
P21	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Ecusta.
P22	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Ecusta.
P31	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't 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.
P41	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Asheville.
P42	- X	Walk	(Percussive Tone)
	X -	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Asheville.
PB43	- 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.

MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Walk *	-	7	7	7	-	7
Ped Clear *	-	10	20	21	-	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 *	-	1.5	-	-	-	1.5
Maximum Initial *	-	34	-	-	-	34
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.

LEGEND



SIGNS

- PROPOSED**
- (A) "YIELD" Sign (R1-2)
 - (B) Pedestrian Crossing Sign (W11-2) w/ Left Downward Diagonal Plaque (W16-TpL)
 - (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)

Final Signal Design

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

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:

SEAL

Signature: Steven G. Haynie 5/4/2023
DATE: 5/4/2023
Sig Inventory No. 14-0798