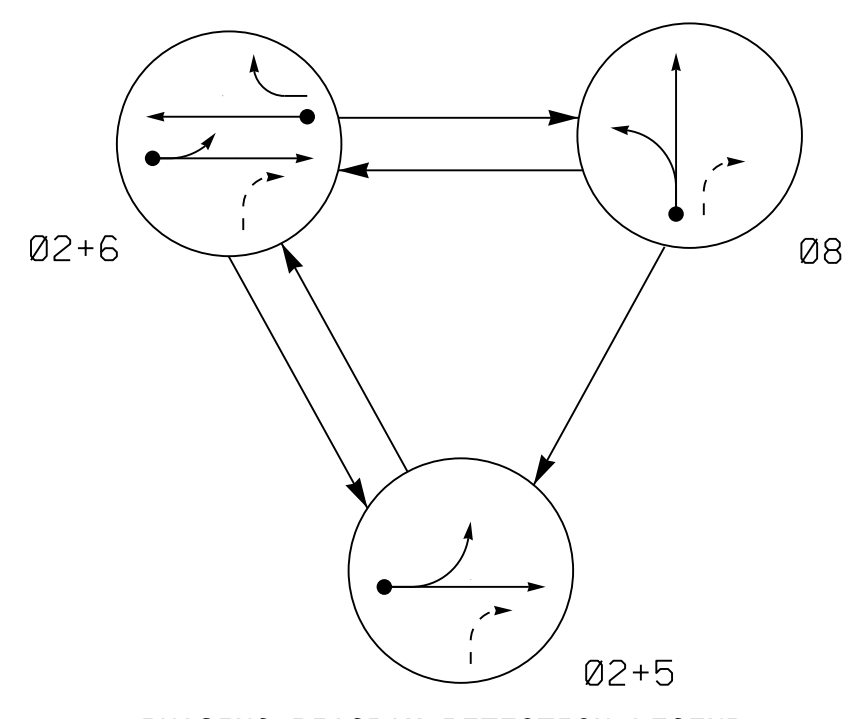


PHASING DIAGRAM



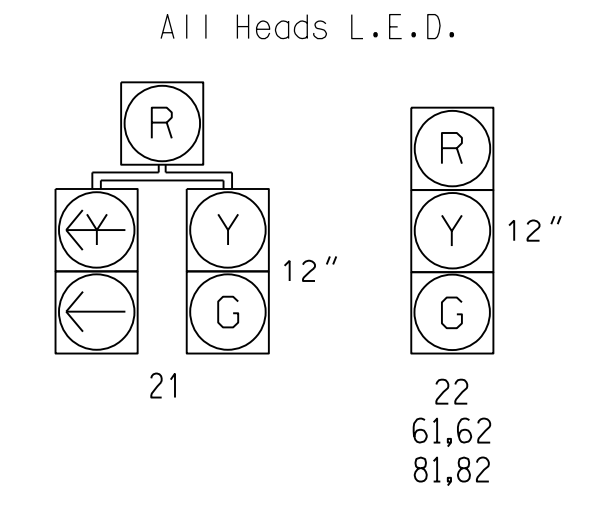
PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←- - -→ UNSIGNALIZED MOVEMENT
- ←- - -> PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	Ø1+NS	Ø2+NS	Ø8	L-FLIGHT
21	G	G	R	Y
22	G	G	R	Y
61,62	R	G	R	Y
81,82	R	R	G	R

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

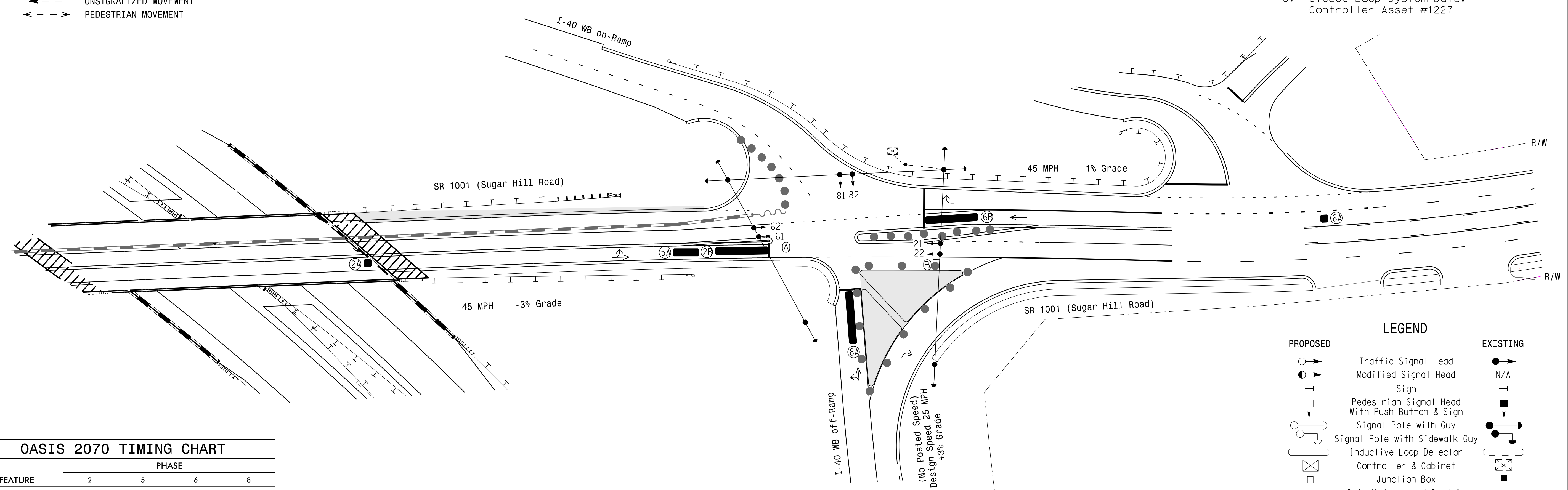
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY			
2A	6X6	300	*	*	2	Y	Y	-	-	-	*
2B	6X40	0	*	*	2	Y	Y	2.0	5	-	*
5A	6X20	50	*	*	5	Y	Y	-	-	15	*
6A	6X6	300	*	*	6	Y	Y	-	-	-	*
6B	6X40	0	*	*	6	Y	Y	2.0	5	-	*
8A	6X40	0	*	*	8	Y	Y	-	-	-	*

*Video Detection Area. Camera locations should be confirmed in the field by the contractor in order to provide detection of the areas indicated.

3 Phase Fully Actuated SR 1001 (Sugar Hill Rd) CLS

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.
- Reposition existing signal heads numbered #21, 22, 61, and 62.
- Set all detector units to presence mode.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed Loop System Data: Controller Asset #1227



OASIS 2070 TIMING CHART

FEATURE	PHASE			
	2	5	6	8
Min Green 1 *	12	8	12	7
Extension 1 *	6.0	3.0	6.0	2.0
Max Green 1 *	90	15	90	15
Yellow Clearance	4.8	3.0	4.8	3.1
Red Clearance	1.9	2.9	1.9	2.2
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	30	-	30	-
Minimum Gap	3.0	-	3.0	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	-	-	-	-
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

* 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

PROPOSED	EXISTING
○→ Traffic Signal Head	●→ Traffic Signal Head
●→ Modified Signal Head	N/A
⊥ Sign	⊥ Sign
○→ Pedestrian Signal Head With Push Button & Sign	⊥ Pedestrian Signal Head
○→ Signal Pole with Guy	⊥ Signal Pole with Guy
○→ Signal Pole with Sidewalk Guy	⊥ Signal Pole with Sidewalk Guy
⊠ Inductive Loop Detector	⊠ Inductive Loop Detector
⊠ Controller & Cabinet	⊠ Junction Box
- - - 2-in Underground Conduit	- - - Right of Way
N/A	→ Directional Arrow
■ Video Detection Area	N/A
■ Construction Zone	N/A
● Drums	N/A
Ⓐ No Left Turn Sign (R3-2)	Ⓐ
Ⓑ No Right Turn Sign (R3-1)	Ⓑ

Signal Upgrade Temporary Design 5 - TMP Phase IV

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Prepared for the Offices of:

SR 1001 (Sugar Hill Road) at I-40 Westbound Ramps

Division 13 McDowell County Marion

PLAN DATE: January 2019 REVIEWED BY: R Muncey

PREPARED BY: G Spell REVIEWED BY: D Harris

REVISIONS	INIT.	DATE

Scale: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

2/5/2019
Regina M. Muncey
DATE
SIG. INVENTORY NO. 13-122715

2/5/2019 PM
 User: rmmuncey
 C:\Users\mmuncey\Documents\Signal Design\Temporary Design\5818...sig.dgn, 13-122715.dgn