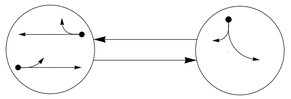
PROJECT REFERENCE NO.	SHEET NO.
U-2581BA	Sig.6.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION			
SIGNAL FACE	PHASE Ø 2+6	PHASE Ø 4	PHASE FLASH
22, 23	G	R	Y
41, 42	R	G	R
61, 62	G	R	Y

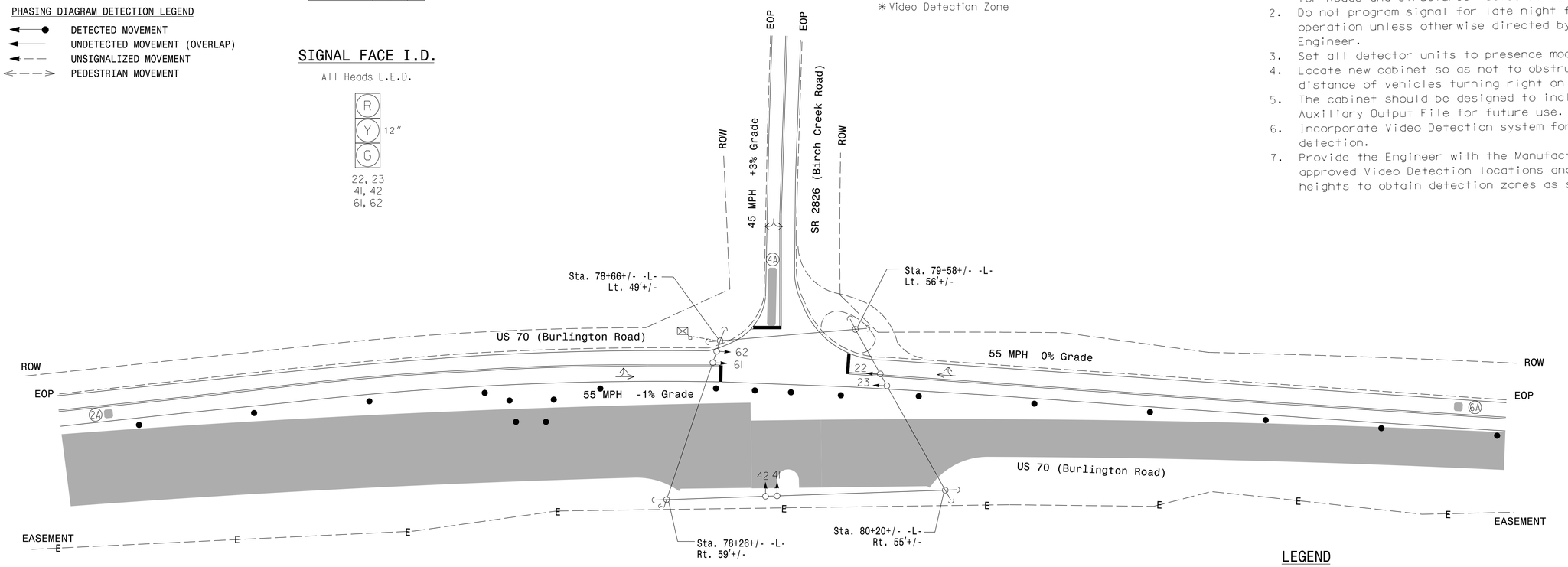
SIGNAL FACE I.D.

All Heads L.E.D.

22, 23
41, 42
61, 62

ASC/3 DETECTOR INSTALLATION CHART													
DETECTOR					PROGRAMMING								
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
2A*	6X6	420	*	*	2	Yes	-	-	X	N	-	-
4A*	6X40	0	*	*	4	Yes	-	5	-	S	-	-
6A*	6X6	420	*	*	6	Yes	-	-	X	N	-	-

* Video Detection Zone



2 Phase Fully Actuated (Isolated)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. The cabinet should be designed to include an Auxiliary Output File for future use.
6. Incorporate Video Detection system for vehicle detection.
7. Provide the Engineer with the Manufacturer's approved Video Detection locations and mounting heights to obtain detection zones as shown.

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
▭↓	Pedestrian Signal Head	■↓
○	Signal Pole with Guy	●
○	Signal Pole with Sidewalk Guy	●
▭	Inductive Loop Detector	▭
⊠	Controller & Cabinet	⊠
□	Junction Box	■
-----	2-in Underground Conduit	-----
N/A	Right of Way	-----
→	Directional Arrow	→
▭	Video Detection Zone	N/A
▬	Construction Zone	N/A
●	Construction Zone Drum	N/A

ASC/3 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6
Min Green *	14	7	14
Walk *	-	-	-
Ped Clear	-	-	-
Veh. Extension *	6.0	2.0	6.0
Max 1 *	90	30	90
Yellow	5.3	3.0	5.2
Red Clear	1.0	1.6	1.0
Actuations B4 Add *	-	-	-
Seconds /Actuation *	2.5	-	2.5
Max Initial *	46	-	46
Time Before Reduction *	15	-	15
Time To Reduce *	30	-	30
Minimum Gap	3.4	-	3.4
Locking Detector	X	-	X
Recall Position	VEH RECALL	-	VEH RECALL
Dual Entry	-	-	-
Simultaneous Gap	X	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.

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signal Upgrade-Temporary Design 1 (TMP Phase I)

Prepared for the Offices of:
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

US 70 (Burlington Road) at SR 2826 (Birch Creek Road)

Division 7 Guilford County McLeansville

PLAN DATE: September 2019 REVIEWED BY: M. L. Stygles

PREPARED BY: J. Ma REVIEWED BY:

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 033108 ENGINEER JIANXIN MA

DocuSigned by: Jianxin Ma 9/9/2019
SIGNATURE DATE

SIG. INVENTORY NO. 07-1708TI

38656.04