PHASING DIAGRAM

Ø6   Ø3

PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE 03	PHASE 06	FLASH
31	←	-R-	-R-
61,62	R	G	Y
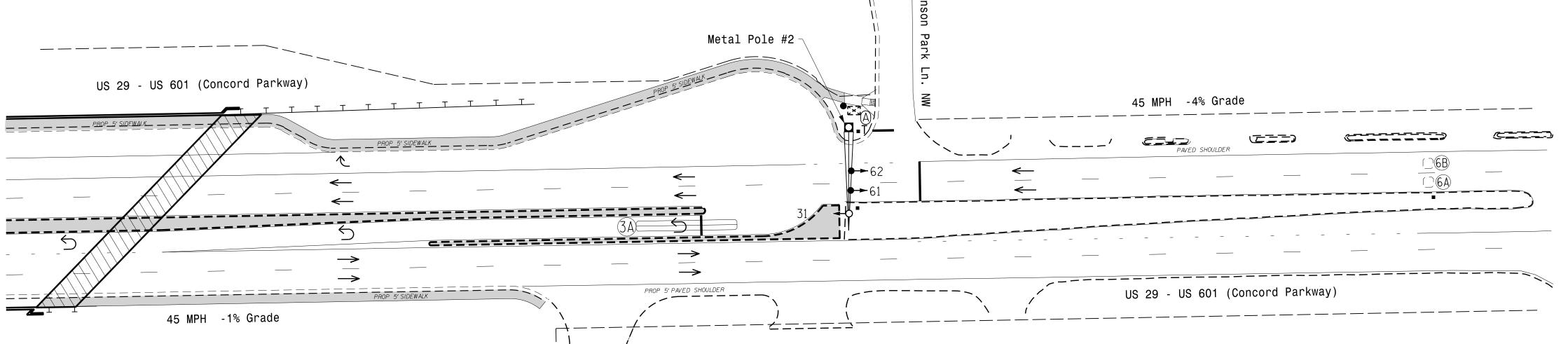
SIGNAL FACE I.D.

All Heads L.E.D.

31   61,62

ASC/3 DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
3A	6X60	+20	2-4-2	Y	3	Yes	–	–	–	N	–	–
6A	6X6	300	5	–	6	Yes	–	–	X	N	–	–
6B	6X6	300	5	–	6	Yes	–	–	X	N	–	–

2 Phase
Fully Actuated
City of Concord Central System

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. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

Metal Pole #2

Hinson Park Ln. NW

US 29 - US 601 (Concord Parkway)

PROP 5' SIDEWALK

45 MPH   -4% Grade

PAVED SHOULDER

62
61

31

3A

6B
6A

PROP 5' PAVED SHOULDER

US 29 - US 601 (Concord Parkway)

45 MPH -1% Grade

ASC/3 TIMING CHART

FEATURE	PHASE 3	PHASE 6
Min Green *	7	12
Walk *	0	0
Ped Clear	0	0
Veh. Extension *	2.0	6.0
Max 1 *	30	90
Yellow	3.0	4.9
Red Clear	3.5	2.1
Red Revert	2.0	2.0
Actuations B4 Add *	–	–
Seconds /Actuation *	–	1.5
Max Initial *	–	34
Time Before Reduction *	–	15
Time To Reduce *	–	30
Minimum Gap	–	3.0
Locking Detector	–	X
Recall Position	–	VEH. RECALL
Dual Entry	–	–
Simultaneous Gap	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.

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
⊟	Pedestrian Signal Head With Push Button & Sign	■
○	Type II Signal Pedestal	●
⊛	Type I Pushbutton Post	⊛
○→	Signal Pole with Guy	●→
○→	Signal Pole with Sidewalk Guy	●→
⊡	Metal Pole with Mastarm	⊡
⬭	Inductive Loop Detector	⬭
⊠	Controller & Cabinet	⊠
□	Junction Box	■
	2-in Underground Conduit	
N/A	Right of Way	– – –
→	Directional Arrow	→
N/A	Guardrail	⊥⊥
⬭	Curb Ramp	N/A
Ⓐ	"STOP" Sign (R1-1)	Ⓐ

Signal Upgrade - Final

SCALE
0   40
1"=40'