PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

2+5

 $\leftarrow -->$

TABLE OF OPERATION

SIGNAL

FACE

11

21, 22

31

41

42, 43, 44

51

61

PHASE

42, 43, 44

All Heads L.E.D.

PROJECT REFERENCE NO. SHEET NO. U-5956 | Sig. 3.0

6 Phase Fully Actuated (Concord Central System)

NOTES

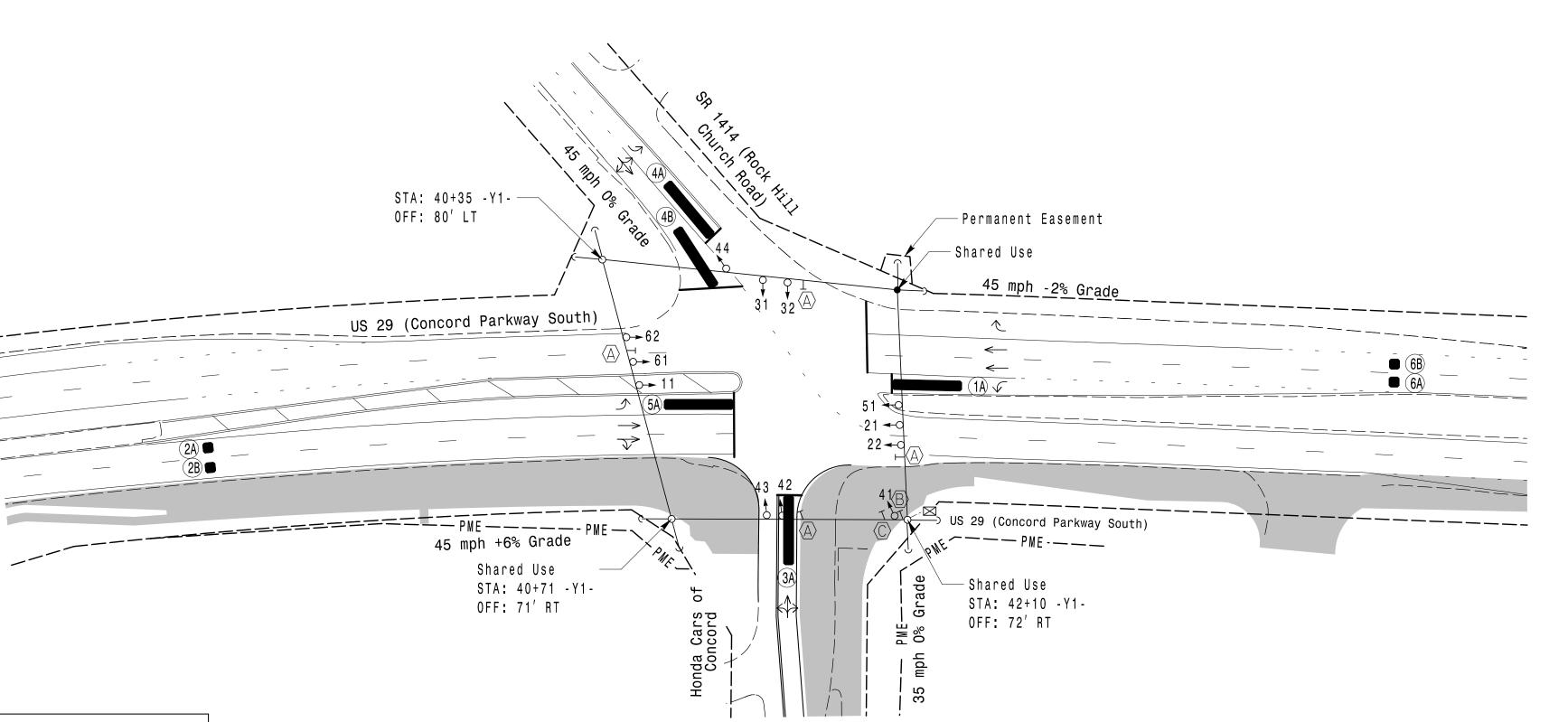
- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- 2. Do not program signal for late night flashing operation unless otherwise
- directed by the Engineer.
- 3. Phase 1 and/or phase 5 may be lagged.
- 4. The order of phase 3 and phase 4 may be reversed.

- the manufacturer's instructions to achieve the desired detection.
- 8. Maximum times shown in timing chart are for free-run operation only.
- Coordinated signal system timing values supersede these values.

5. Set all detector units to presence mode. 6. Locate new cabinet so as not to obstruct sight distance of

vehicles turning right on red. 7. This intersection uses video detection. Install detectors according to

9. See Roadway Traffic Control Plans for proposed stop line locations.



LEGEND

EXISTING <u>PROPOSED</u> Traffic Signal Head **●** Modified Signal Head N/A Sign Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Non-Intrusive Detection Area Controller & Cabinet Junction Box 2-in Underground Conduit N/A Right of Way Permanent Maintenance --- PME --Easement Directional Arrow Construction Zone Street Name Sign (D3-1) Left Arrow "ONLY" Sign (R3-5L) Dual Turn and Through Arrow Sign (R3-19)

INIT. DATE

Signal Upgrade - Temporary Design 1 TMP Phase 1

1"=50'

PLANS PREPARED IN THE OFFICE OF:

421 Fayetteville Street, Suite 600

NC License #F-0102

Raleigh, NC 27601

(919) 677-2000

MAXTIME DETECTOR INSTALLATION CHART

1A | 6X40 | 0 | * | X | 1 | - | - | X | - | X | - |

| 300 | * | X | 2 | - |

* X 2 -

* X 3 5.0

* | X | 4 | 3.0 |

 \star $X \mid 4 \mid 10.0 \mid$

* | X | 5 | - |

* X 6 - |

6X6 | 300 | * | X | 6 | - | - | X | X | X | - | -

PROGRAMMING

- | X | X | X | - |

- | X | X | X | - |

- | X | - | X | - |

- | X | - | X | - |

- | X | - | X | - |

- | X | X | X | - |

경 | CALL | DELAY | EXTEND | 님 I

≥ PHASE TIME TIME

ZONES

STOPBAR

300

300

(FT)

6 X 6

★ Video Detection Zone

ZONE

2[.]B

5 A

US 29 (Concord Parkway South)

SR 1414 (Rock Hill Church Road) and Honda Cars of Concord Division 10 Cabarrus County Kimley >>> Horn

750 N. Greenfield Pkwy, Garner, NC 27529 PLAN DATE: February 2023 REVIEWED BY:

PLAN DATE: February 2023 REVIEWED BY:

PREPARED BY: SP Pennington REVIEWED BY: PLAN DATE: February 2025 REVIEWED BY: KP Baumann

SEAL 044434 ____5DC709A86BCB447...

SIG. INVENTORY NO. 10-0875T

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL SIGNATURES COMPLETED

	MAX	TIME T	[MING (CHART		
FEATURE	PHASE					
	1	2	3	4	5	6
Walk *	_	-	_	_	_	_
Ped Clear	_	_	_	_	_	_
Min Green *	7	12	7	7	7	12
Passage *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	15	120	15	40	20	120
Yellow Change	3.0	4.7	3.8	4.5	3.0	4.7
Red Clear	2.9	1.5	2.4	2.4	2.4	1.5
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	Х	_	Х	Х	Х	_
Vehicle Recall	_	MIN RECALL	_	_	_	MIN RECAL

* 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

Dual Entry