



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

August 06, 2025

Addendum No. 1

RE: Contract # C204975

WBS # 53080.3.1

FEDERAL-AID NO. 5308001

Forsyth County (I-5880)

I-40/US-311 AT NC-109 INTERCHANGE

August 19, 2025 Letting

To Whom It May Concern:

Reference is made to the plans and proposal furnished to you on this project.

The following revisions have been made to the Signal Plans.

Sheet No.	Revision
Sig 10.0, Sig 11.0, Sig 12.0, Sig 13.0	Signal Inventory Number revised in title block

Please void the above listed Sheets in your proposal and staple the revised Sheets thereto.

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 08-06-2025".
G-23	The Project Special Provision entitled DISADVANTAGED BUSINESS ENTERPRISE has been revised to reflect a DBE Goal of 0.0 %

Please void the above listed Pages in your proposal and staple the revised Pages thereto.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

On the item sheets the following pay item revisions have been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0339- 8217000000-E 425	REINFORCING STEEL (BRIDGE)	405,668 LB	26,852 LB
0368- 8280000000-E 440	APPROX 378,816 LBS STRUCTURAL STEEL	NEW ITEM	LS

The Contractor's bid must include these pay item revisions.

The electronic bidding file has been updated to reflect these revisions. Please download the Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

Signed by:

52C46046381F443...

Ronald E. Davenport, Jr., PE
State Contract Officer

RED/jjr
Attachments

cc:	Mr. Wiley W. Jones III, PE	Mr. Forrest Dungan, PE
	Mr. John P. Rhyne, PE	Ms. Jaci Kincaid
	Mr. Ken Kennedy, PE	Mr. Jon Weathersbee, PE
	Mr. Malcolm Bell	Project File (2)

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM NO.1 DATED 08-06-2025

DATE AND TIME OF BID OPENING: **Aug 19, 2025 AT 02:00 PM**

CONTRACT ID C204975
WBS 53080.3.1

FEDERAL-AID NO. 5308001
COUNTY FORSYTH
T.I.P NO. I-5880
MILES 0.819
ROUTE NO. I-40
LOCATION I-40/US-311 AT NC-109 INTERCHANGE.

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURES.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

SAF Subcontract Approval Form - Form required for approval to sublet the contract.

<https://connect.ncdot.gov/projects/construction/Construction%20Forms/SAF%20Form%20-%20Subcontract%20Approval%20Form%20Revised%2004-19.xlsm>

JC-1 Joint Check Notification Form - Form and procedures for joint check notification. The form acts as a written joint check agreement among the parties providing full and prompt disclosure of the expected use of joint checks.

<https://connect.ncdot.gov/projects/construction/Construction%20Forms/Joint%20Check%20Notification%20Form.pdf>

Letter of Intent - Form signed by the Contractor and the DBE subcontractor, manufacturer or regular dealer that affirms that a portion of said contract is going to be performed by the signed DBE for the estimated amount (based on quantities and unit prices) listed at the time of bid.

<http://connect.ncdot.gov/letting/LetCentral/Letter%20of%20Intent%20to%20Perform%20as%20a%20Subcontractor.pdf>

Listing of DBE Subcontractors Form - Form for entering DBE subcontractors on a project that will meet this DBE goal. This form is for paper bids only.

[http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/08%20DBE%20Subcontractors%20\(Federal\).docx](http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/08%20DBE%20Subcontractors%20(Federal).docx)

Subcontractor Quote Comparison Sheet - Spreadsheet for showing all subcontractor quotes in the work areas where DBEs quoted on the project. This sheet is submitted with good faith effort packages.

<http://connect.ncdot.gov/business/SmallBusiness/Documents/DBE%20Subcontractor%20Quote%20Comparison%20Example.xls>

DBE Regular Dealer/Distributor Affirmation Form – Form is used to make a preliminary counting determination for each DBE listed as a regular dealer or distributor to assess its eligibility for 60 or 40 percent credit, respectively of the cost of materials or supplies based on its demonstrated capacity and intent to perform as a regular dealer or distributor, as defined in section 49 CFR 26.55 under the contract at issue. A Contractor will submit the completed form with the Letter of Intent.

<https://connect.ncdot.gov/projects/construction/Construction%20Forms/DBE%20Regular%20Dealer-Distributor%20Affirmation%20Form%20-%20USDOT%202024.pdf>

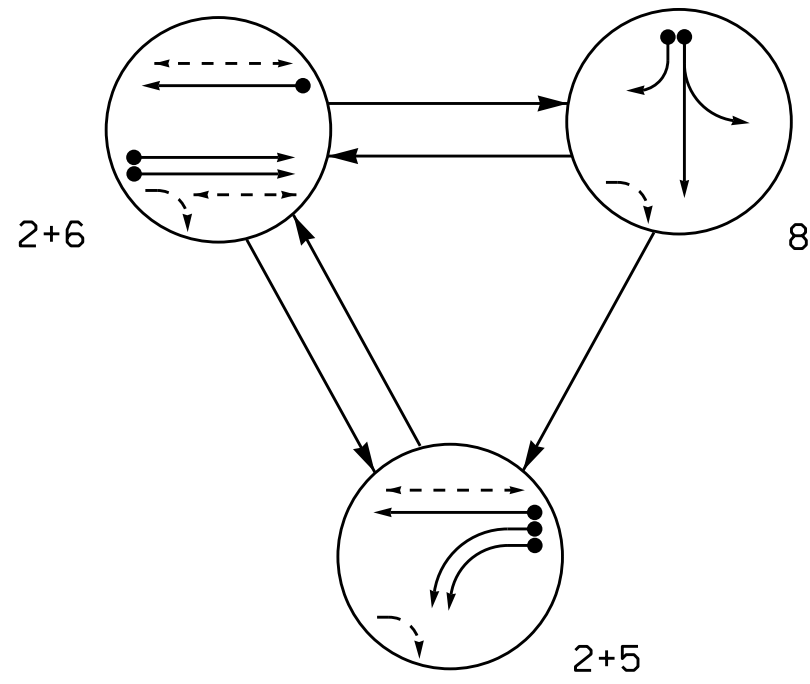
DBE Goal

The following DBE goal for participation by Disadvantaged Business Enterprises is established for this contract:

Disadvantaged Business Enterprises **0.0** %

- (A) *If the DBE goal is more than zero*, the Contractor shall exercise all necessary and reasonable steps to ensure that DBEs participate in at least the percent of the contract as set forth above as the DBE goal.

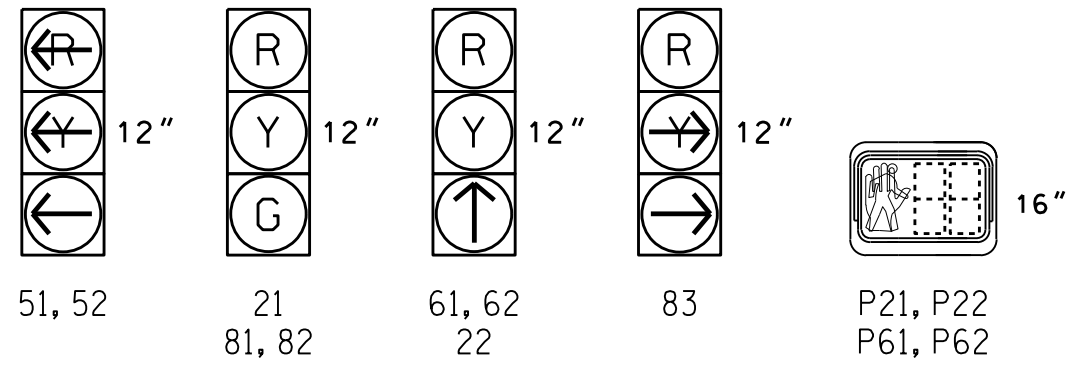
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	2+5	2+6	8	FLASH
21	G	G	R	R
22	↑	↑	R	R
51, 52	←	←	RR	RR
61, 62	R	↑	R	R
81, 82	R	R	G	R
83	R	R	→	R
P21, P22	W	W	DW	DRK
P61, P62	DW	W	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



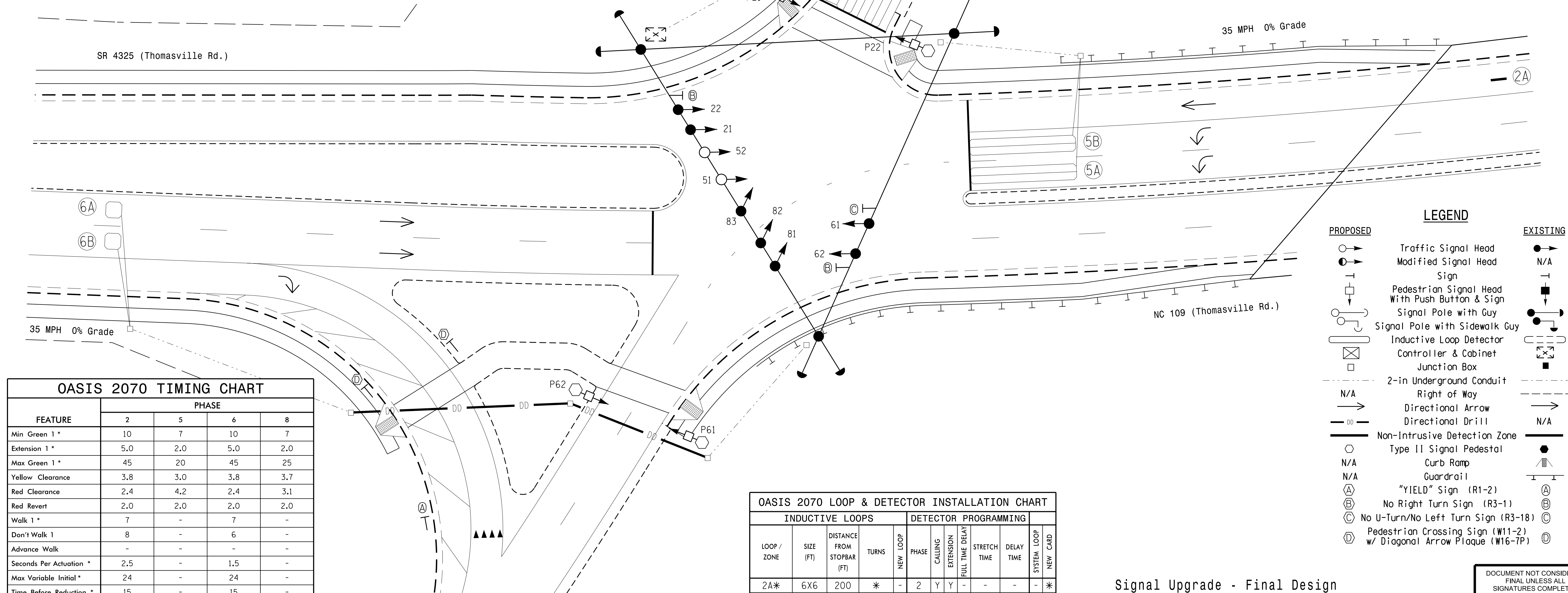
3 Phase Fully Actuated (Winston-Salem Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Reposition existing signal heads 61 and 62.
- Phase 5 may be lagged.
- 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.
- This intersection uses non-intrusive detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

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



OASIS 2070 TIMING CHART

FEATURE	PHASE			
	2	5	6	8
Min Green 1 *	10	7	10	7
Extension 1 *	5.0	2.0	5.0	2.0
Max Green 1 *	45	20	45	25
Yellow Clearance	3.8	3.0	3.8	3.7
Red Clearance	2.4	4.2	2.4	3.1
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	7	-	7	-
Don't Walk 1	8	-	6	-
Advance Walk	-	-	-	-
Seconds Per Actuation *	2.5	-	1.5	-
Max Variable Initial *	24	-	24	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	15	-	15	-
Minimum Gap	3.0	-	3.0	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
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.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS				DETECTOR PROGRAMMING						
LOOP / ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME
2A*	6X6	200	*	-	2	Y	Y	-	-	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	-
5B	6X40	0	2-4-2	Y	5	Y	Y	-	-	-
6A	6X6	200	4	Y	6	Y	Y	-	-	-
6B	6X6	200	4	Y	6	Y	Y	-	-	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-
8B	6X40	0	2-4-2	Y	8	Y	Y	-	-	15

* Non-Intrusive detection zone.

LEGEND

- | PROPOSED | EXISTING |
|------------------------------------------------|--------------------------------------------------------------------|
| 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 | ● |
| Inductive Loop Detector | □ |
| Controller & Cabinet | □ |
| Junction Box | ■ |
| 2-in Underground Conduit | --- |
| N/A | Right of Way |
| → | Directional Arrow |
| --- DD --- | Directional Drill |
| --- DD --- | N/A |
| Non-Intrusive Detection Zone | --- |
| Type II Signal Pedestal | ● |
| N/A | Curb Ramp |
| N/A | Guardrail |
| (A) | "YIELD" Sign (R1-2) |
| (B) | No Right Turn Sign (R3-1) |
| (C) | No U-Turn/No Left Turn Sign (R3-18) |
| (D) | Pedestrian Crossing Sign (W11-2) w/ Diagonal Arrow Plaque (W16-7P) |

Signal Upgrade - Final Design

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

NC 109/SR 4325 (Thomasville Road) at I-40 WB Ramps

Division 9 Forsyth County Winston-Salem

PLAN DATE: September 2024 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

01/02/2025

SIG. INVENTORY NO. 09-0599

PHASING DIAGRAM

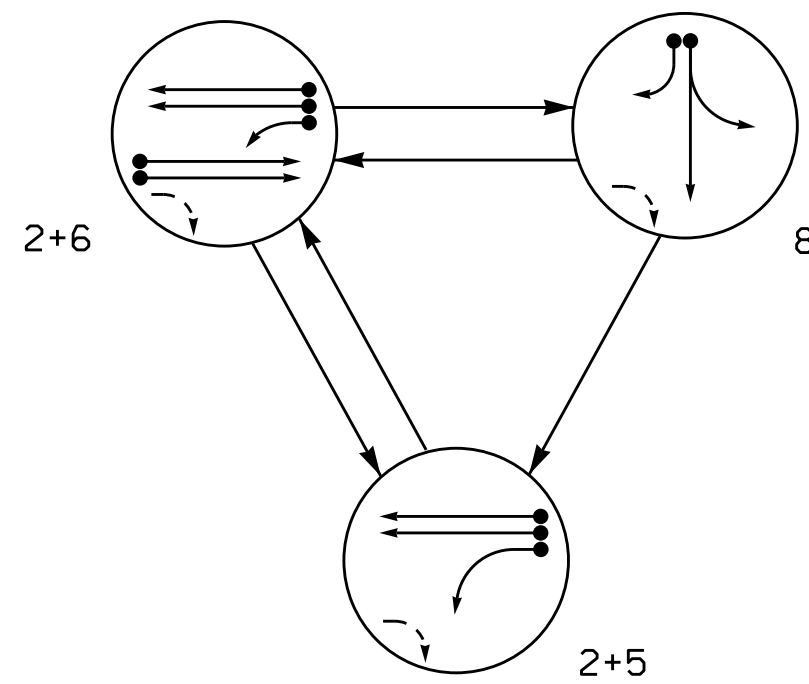
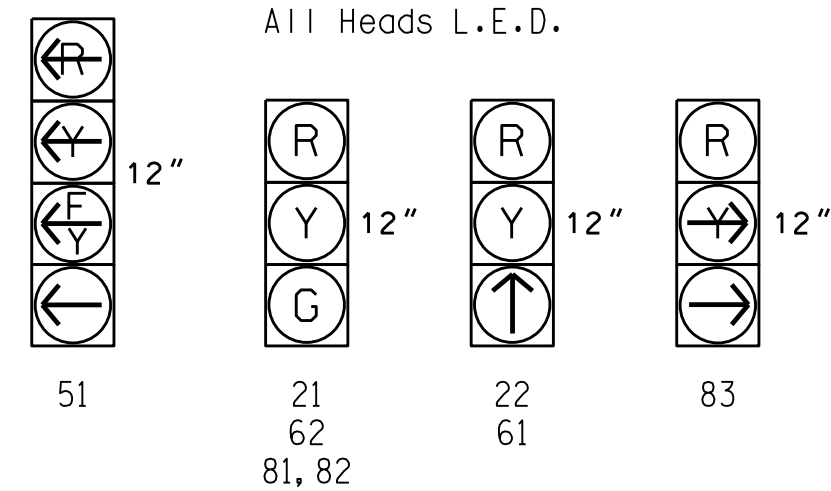


TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	2 + 5	2 + 6	8	FLASH
21	G	G	R	R
22	↑	↑	R	R
51	→	→	R	R
61	R	↑	R	R
62	R	G	R	R
81, 82	R	R	G	R
83	R	R	→	R

SIGNAL FACE I.D.

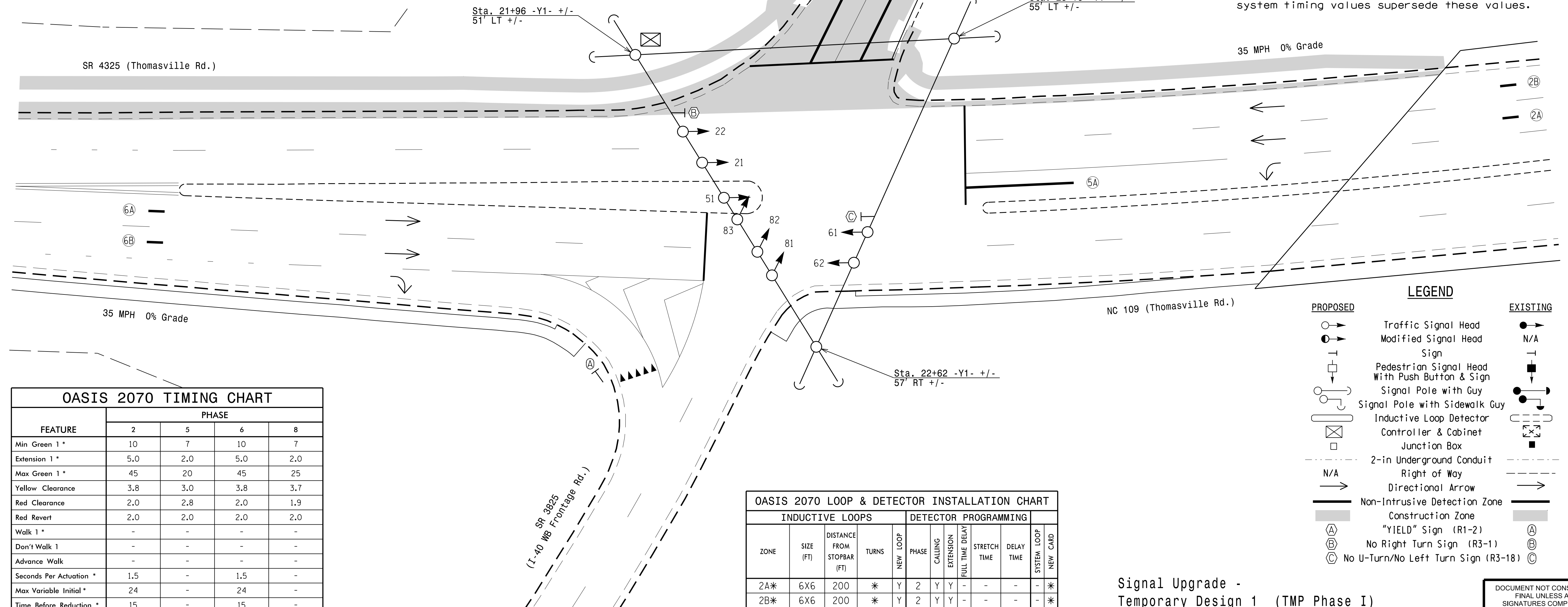
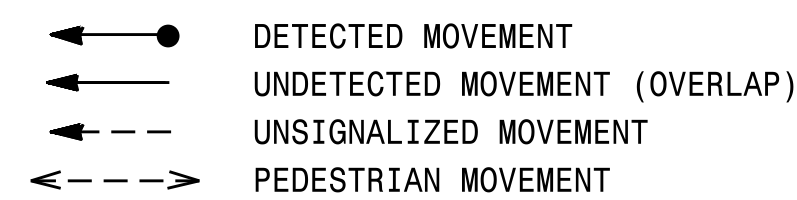


3 Phase
Fully Actuated
(Winston-Salem Signal System)

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 5 may be lagged.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. This intersection uses non-intrusive detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND



OASIS 2070 TIMING CHART

OASIS 2070 TIMING CHART				
FEATURE	PHASE			
	2	5	6	8
Min Green 1 *	10	7	10	7
Extension 1 *	5.0	2.0	5.0	2.0
Max Green 1 *	45	20	45	25
Yellow Clearance	3.8	3.0	3.8	3.7
Red Clearance	2.0	2.8	2.0	1.9
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Advance Walk	-	-	-	-
Seconds Per Actuation *	1.5	-	1.5	-
Max Variable Initial *	24	-	24	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	15	-	15	-
Minimum Gap	3.0	-	3.0	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

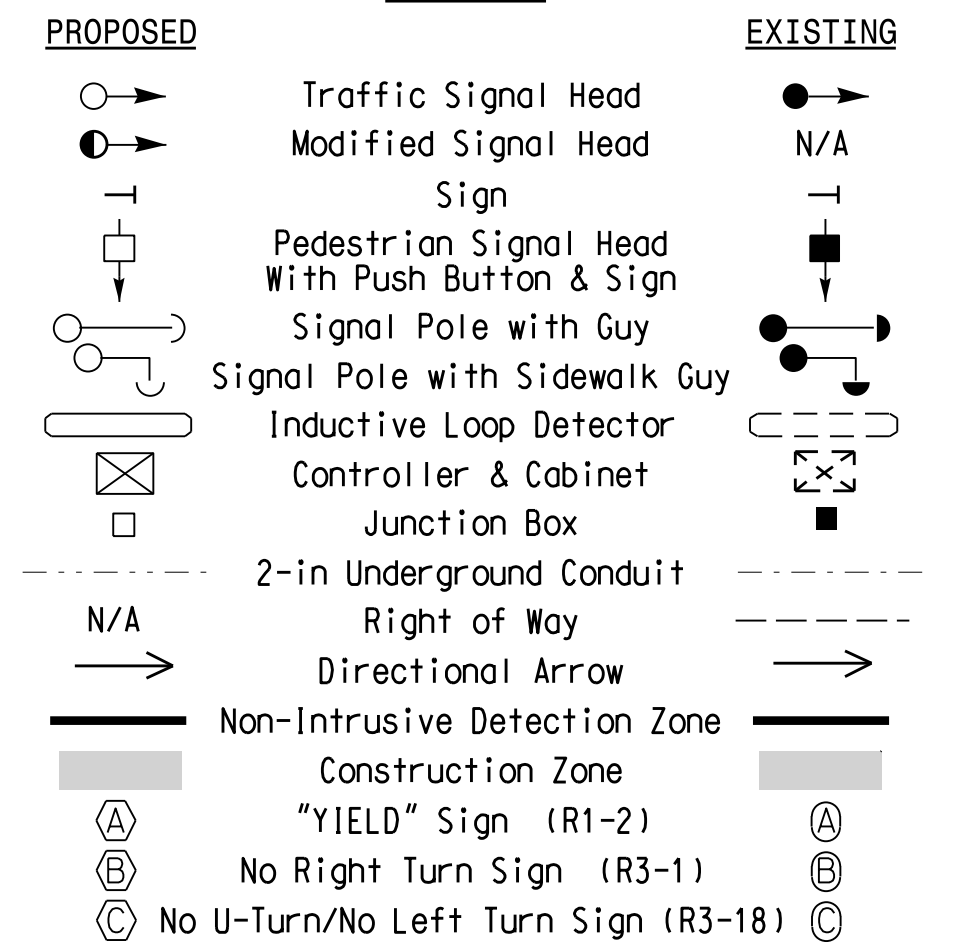
* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

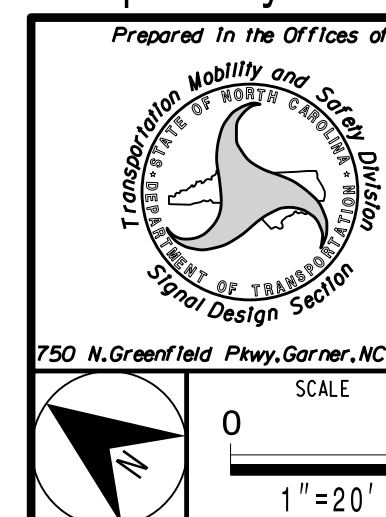
INDUCTIVE LOOPS					DETECTOR PROGRAMMING								
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD	
2A*	6X6	200	*	Y	2	Y	Y	-	-	-	-	*	
2B*	6X6	200	*	Y	2	Y	Y	-	-	-	-	*	
5A*	6X40	0	*	Y	5	Y	Y	-	-	15	-	*	
					2	Y	Y	Y	-	3	-	*	
6A*	6X6	200	*	Y	6	Y	Y	-	-	-	-	*	
6B*	6X6	200	*	Y	6	Y	Y	-	-	-	-	*	
8A*	6X40	0	*	Y	8	Y	Y	-	-	-	-	*	
8B*	6X40	0	*	Y	8	Y	Y	-	-	15	-	*	

* Non-Intrusive detection zone.

LEGEND



Signal Upgrade -
Temporary Design 1 (TMP Phase I)

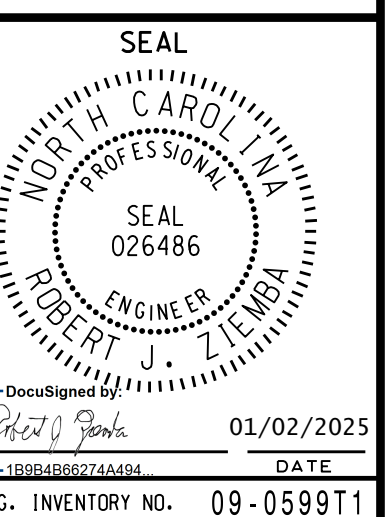


NC 109/SR 4325 (Thomasville Road)
at
I-40 WB Ramp and
SR 3825 (I-40 WB Frontage Rd.)
Division 9 Forsyth County Winston-Salem

PLAN DATE:	September 2024	REVIEWED BY:
PREPARED BY:	J. A. Lohr	REVIEWED BY:

START DATE	REVIEWED BY
REVISIONS	

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



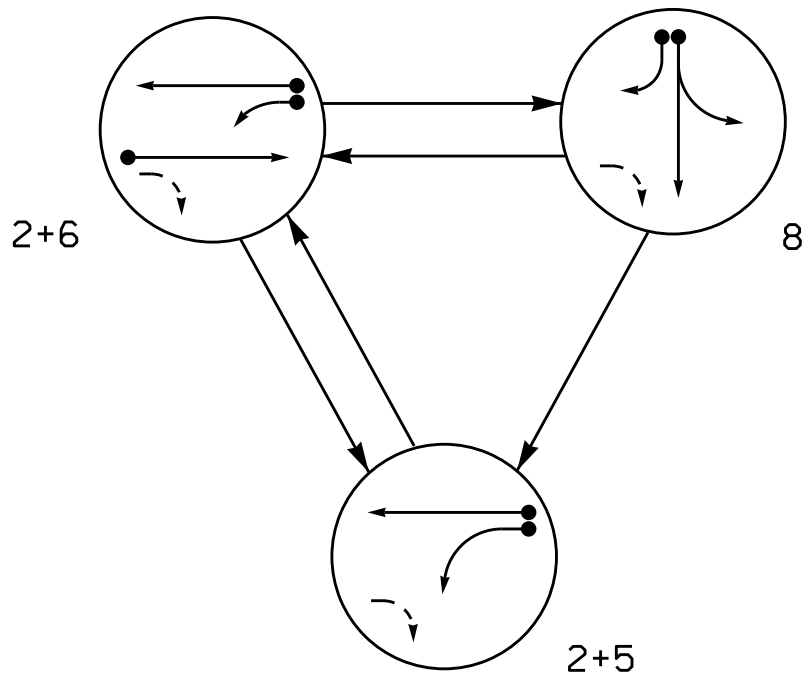
G. INVENTORY NO. 09-0599T1

3 Phase
Fully Actuated
(Winston-Salem Signal System)

NOTES

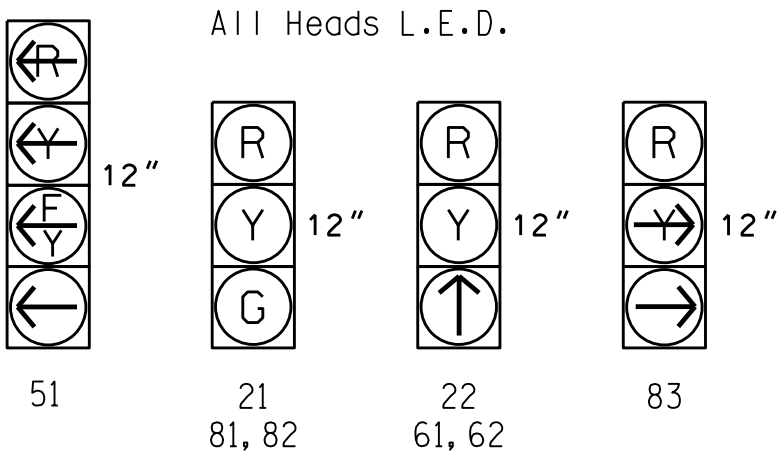
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Reconnect and unbag existing signal heads 51 and 81.
4. Reposition existing signal heads 21, 22, 51, 61, and 62.
5. Phase 5 may be lagged.
6. Set all detector units to presence mode.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM



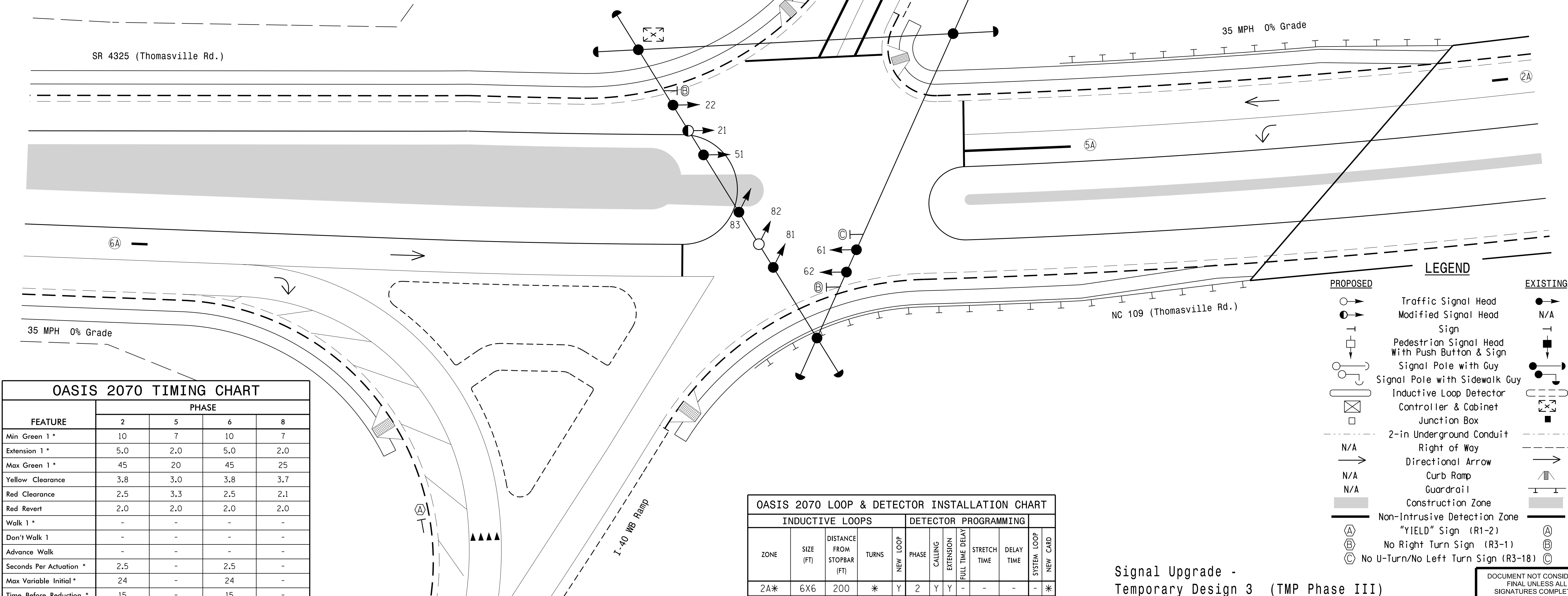
SIGNAL FACE	PHASE			
	2+5	2+6	8	FLASH
21	G	G	R	R
22	↑	↑	R	R
51	←	←	R	R
61, 62	R	↑	R	R
81, 82	R	R	G	R
83	R	R	→	R

SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND

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



OASIS 2070 TIMING CHART

FEATURE	PHASE			
	2	5	6	8
Min Green 1 *	10	7	10	7
Extension 1 *	5.0	2.0	5.0	2.0
Max Green 1 *	45	20	45	25
Yellow Clearance	3.8	3.0	3.8	3.7
Red Clearance	2.5	3.3	2.5	2.1
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Advance Walk	-	-	-	-
Seconds Per Actuation *	2.5	-	2.5	-
Max Variable Initial *	24	-	24	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	15	-	15	-
Minimum Gap	3.0	-	3.0	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
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.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART									
INDUCTIVE LOOPS					DETECTOR PROGRAMMING				
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	URNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME
2A*	6X6	200	*	Y	2	Y	Y	-	-
5A*	6X40	0	*	Y	5	Y	Y	-	15
6A*	6X6	200	*	Y	2	Y	Y	-	3
8A*	6X40	0	*	-	8	Y	Y	-	-
8B*	6X40	0	*	-	8	Y	Y	-	15

* Non-Intrusive detection zone.

LEGEND

- PROPOSED
- EXISTING
- Traffic Signal Head
- Modified Signal Head
- Sign
- Pedestrian Signal Head With Push Button & Sign
- Signal Pole with Guy
- Signal Pole with Sidewalk Guy
- Inductive Loop Detector
- Controller & Cabinet
- Junction Box
- 2-in Underground Conduit
- Right of Way
- Directional Arrow
- Curb Ramp
- Guardrail
- Construction Zone
- Non-Intrusive Detection Zone
- "YIELD" Sign (R1-2)
- No Right Turn Sign (R3-1)
- No U-Turn/No Left Turn Sign (R3-18)

Signal Upgrade -
Temporary Design 3 (TMP Phase III)

Prepared in the Offices of: Transportation Mobility and Safety Division NORTH CAROLINA DEPARTMENT OF TRANSPORTATION Signal Design Section 750 N. Greenfield Pkwy, Garner, NC 27529	NC 109/SR 4325 (Thomasville Road) at I-40 WB Ramps Division 9 Forsyth County Winston-Salem PLAN DATE: September 2024 PREPARED BY: J.A. Lohr REVIEWED BY:	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL NORTH CAROLINA PROFESSIONAL ENGINEER ROBERT J. ZIMMERMAN 026486 01/02/2025 DATE SIG. INVENTORY NO. 09-0599T3
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