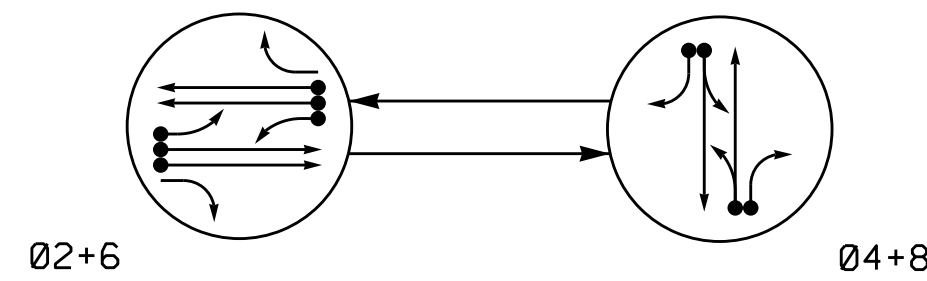


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

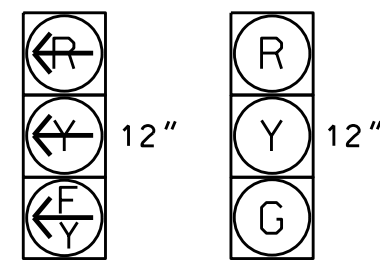
- ● DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	02+6	04+8	FLIGHT
21	Y	R	Y
22, 23	G	R	Y
41, 42, 43	R	G	R
61	Y	R	Y
62, 63	G	R	Y
81, 82, 83	R	G	R

**SIGNAL FACE I.D.**

All Heads L.E.D.



21 22, 23  
61 41, 42, 43  
62, 63  
81, 82, 83

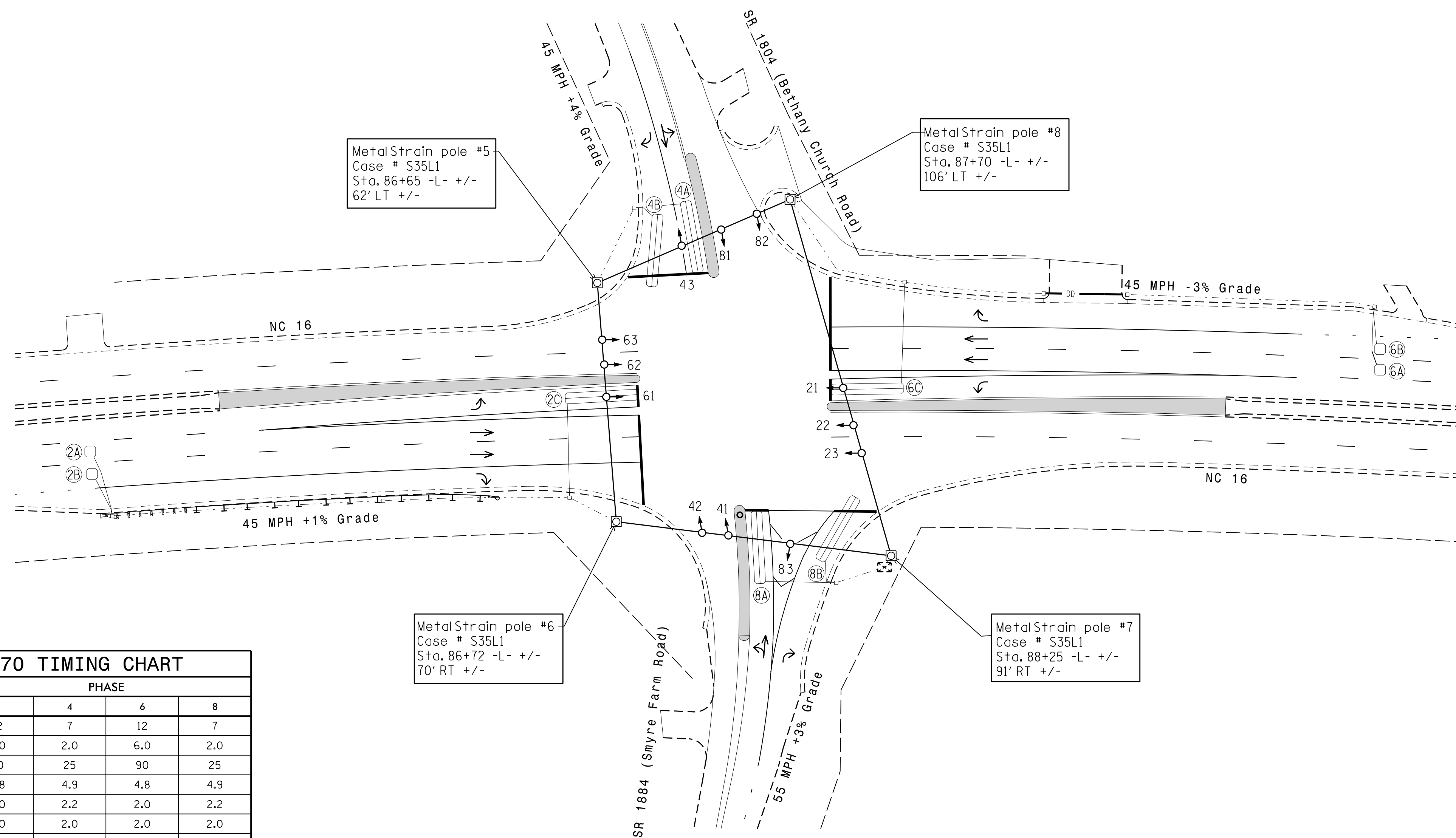
**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2C	6X40	0	2-4-2	Y	2	Y	Y	Y	-	-	3	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	Y
4B	6X40	+5	2-4-2	Y	4	Y	Y	-	-	15	-	Y
6A	6X6	300	5	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	300	5	Y	6	Y	Y	-	-	-	-	Y
6C	6X40	0	2-4-2	Y	6	Y	Y	Y	-	-	3	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-	Y
8B	6X40	+5	2-4-2	Y	8	Y	Y	-	-	15	-	Y

2 Phase Fully Actuated Isolated

**NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.



**OASIS 2070 TIMING CHART**

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	12	7	12	7
Extension 1 *	6.0	2.0	6.0	2.0
Max Green 1 *	90	25	90	25
Yellow Clearance	4.8	4.9	4.8	4.9
Red Clearance	2.0	2.2	2.0	2.2
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	1.8	-	1.8	-
Max Variable Initial *	34	-	34	-
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	YELLOW	-	YELLOW	-
Dual Entry	-	ON	-	ON
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 Traffic Signal Head                            |  | Existing Traffic Signal Head           |
|  | Proposed Modified Signal Head                           |  | Existing Modified Signal Head          |
|  | Proposed Sign   |  | Existing Sign                          |
|  | Proposed Pedestrian Signal Head With Push Button & Sign |  | Existing Pedestrian Signal Head        |
|  | Proposed Signal Pole with Guy                           |  | Existing Signal Pole with Guy          |
|  | Proposed Signal Pole with Sidewalk Guy                  |  | Existing Signal Pole with Sidewalk Guy |
|  | Proposed Inductive Loop Detector                        |  | Existing Inductive Loop Detector       |
|  | Proposed Controller & Cabinet                           |  | Existing Controller & Cabinet          |
|  | Proposed Junction Box                                   |  | Existing Junction Box                  |
|  | Proposed 2-in Underground Conduit                       |  | Existing 2-in Underground Conduit      |
|  | Proposed Right of Way                                   |  | Existing Right of Way                  |
|  | Proposed Directional Arrow                              |  | Existing Directional Arrow             |
|  | Proposed Guardrail                                      |  | Existing Guardrail                     |
|  | Proposed Directional Drill                              |  | Existing Directional Drill             |
|  | Proposed Metal Strain Pole                              |  | Existing Metal Strain Pole             |

**Final Signal Design**

**NC 16 at SR 1804 (Bethany Church Road) / SR 1884 (Smyre Farm Road)**

Division 12, Catawba County, Conover

PLAN DATE: August 2016 REVIEWED BY: T. Williams

PREPARED BY: M. Mahbooba REVIEWED BY:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Seal of S. J. Williams, Professional Engineer, License No. 024393, State of North Carolina.

10/14/2016

SIG. INVENTORY NO. 12-1188

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1" = 40'

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