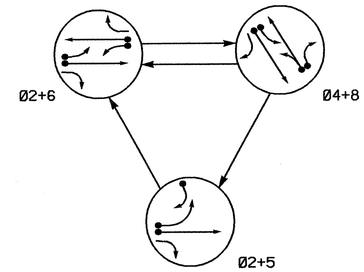
| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-0977A | Sig.8 |

## PHASING DIAGRAM




**PHASING DIAGRAM DETECTION LEGEND**

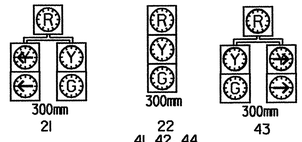
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

## TABLE OF OPERATION

| SIGNAL FACE | PHASE Ø2+5 | Ø2+6 | Ø4+8 | FLASH |
|---|---|---|---|---|
| 21 | G | G | R | Y |
| 22 | G | G | R | Y |
| 41,42,44 | R | R | G | R |
| 43 | R | R | G | R |
| 61, 62,63 | R | G | R | Y |
| 81,82,83,84 | R | R | G | R |

## SIGNAL FACE I.D.

Denotes L.E.D.



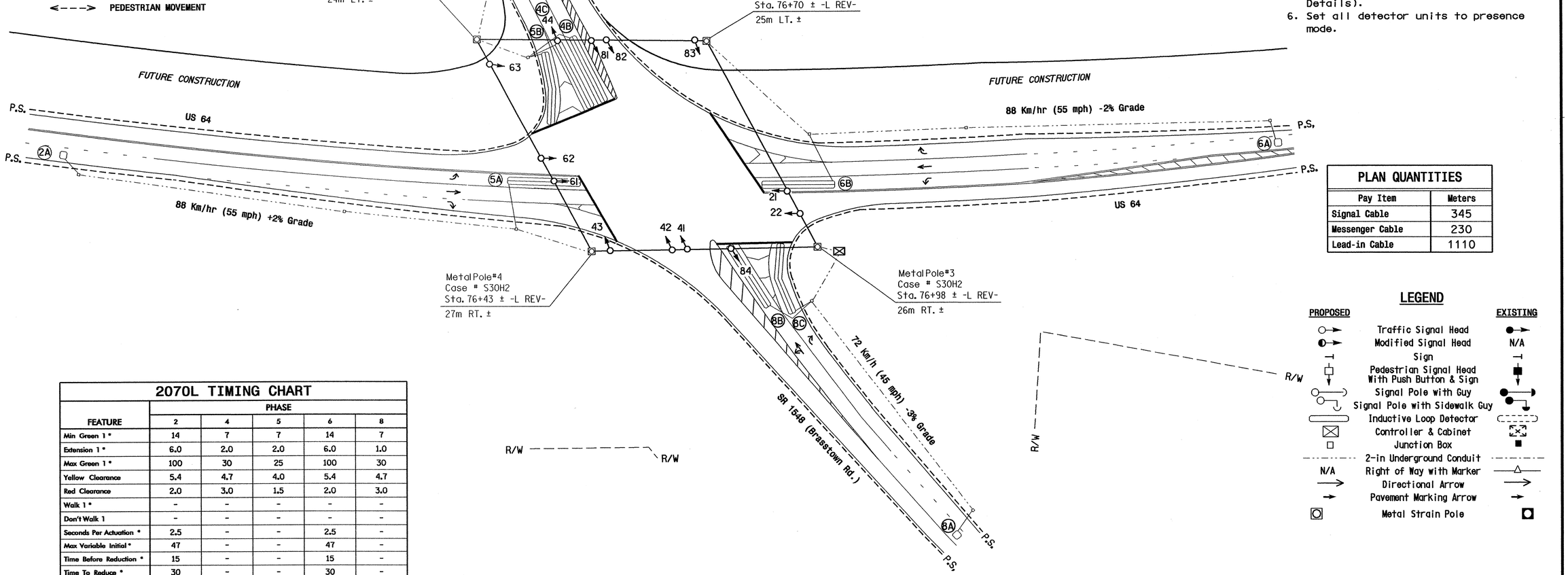

## 2070L LOOP & DETECTOR INSTALLATION

| INDUCTIVE LOOPS | | | | | DETECTOR PROGRAMMING | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOOP | SIZE (M) | TURNS | DISTANCE FROM STOPBAR (M) | NEW LOOP | PHASE | CALLING | EXTENSION | FULL TIME DELAY | SYSTEM LOOP | STRETCH TIME | DELAY TIME | NEW CARD |
| 2A | 1.8X1.8 | 6 | 130 | Y | 2 | Y | Y | - | - | - | - | Y |
| 4A | 1.8X1.8 | 6 | 90 | Y | 4 | - | Y | - | - | 3.0 | - | Y |
| 4B | 1.8X18 | 2-4-2 | 0 | Y | 4 | Y | Y | - | - | - | 3 | Y |
| 4C | 1.8X18 | 2-4-2 | 0 | Y | 4 | Y | Y | - | - | - | - | Y |
| 5A | 1.8X18 | 2-4-2 | 0 | Y | 2 | Y | Y | Y | - | - | 3 | Y |
| | | | | | 5 | Y | Y | - | - | - | 15 | Y |
| 5B | 1.8X18 | 2-4-2 | 0 | Y | 5 | Y | Y | - | - | - | 15 | Y |
| 6A | 1.8X1.8 | 6 | 130 | Y | 6 | Y | Y | - | - | - | - | Y |
| 6B | 1.8X18 | 2-4-2 | 0 | Y | 6 | Y | Y | Y | - | - | 3 | Y |
| 8A | 1.8X1.8 | 4 | 90 | Y | 8 | - | Y | - | - | 3.0 | - | Y |
| 8B | 1.8X18 | 2-4-2 | 0 | Y | 8 | Y | Y | - | - | - | 3 | Y |
| 8C | 1.8X18 | 2-4-2 | 0 | Y | 8 | Y | Y | - | - | - | 15 | Y |

## 3-Phase Fully Actuated (Isolated)

### NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
3. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
4. Omit phase 5 during phase 6 on.
5. Program controller to clear from phase 2+6 to phase 2+5 by progressing through phase 4+8 (see Electrical Details).
6. Set all detector units to presence mode.




## PLAN QUANTITIES

| Pay Item | Meters |
|---|---|
| Signal Cable | 345 |
| Messenger Cable | 230 |
| Lead-in Cable | 1110 |

## 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 with Marker | —△— |
| → | Directional Arrow | → |
| → | Pavement Marking Arrow | → |
| ◎ | Metal Strain Pole | ◎ |

## 2070L TIMING CHART

| FEATURE | PHASE 2 | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|
| Min Green 1 * | 14 | 7 | 7 | 14 | 7 |
| Extension 1 * | 6.0 | 2.0 | 2.0 | 6.0 | 1.0 |
| Max Green 1 * | 100 | 30 | 25 | 100 | 30 |
| Yellow Clearance | 5.4 | 4.7 | 4.0 | 5.4 | 4.7 |
| Red Clearance | 2.0 | 3.0 | 1.5 | 2.0 | 3.0 |
| Walk 1 * | - | - | - | - | - |
| Don't Walk 1 | - | - | - | - | - |
| Seconds Per Actuation * | 2.5 | - | - | 2.5 | - |
| Max Variable Initial * | 47 | - | - | 47 | - |
| Time Before Reduction * | 15 | - | - | 15 | - |
| Time To Reduce * | 30 | - | - | 30 | - |
| Minimum Gap | 3.4 | - | - | 3.4 | - |
| Recall Mode | MIN RECALL | - | - | MIN RECALL | - |
| Vehicle Call Memory | YELLOW | - | - | YELLOW | - |
| Dual Entry | - | ON | - | - | ON |
| Simultaneous Gap | ON | 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.

New Installation

Prepared in the Offices of:
Traffic Engineering and Roadway Standards Unit
Signals and Geometrics Section
122 N. McDowell St., Raleigh, NC 27603

SCALE 5 0 10 1:500

**US 64 at SR 1548 (Brasstown Road)**

Division 14 Cherokee County Murphy

PLAN DATE: July 2004 REVIEWED BY: C.J. Collins

PREPARED BY: Luhr REVIEWED BY:

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 24393 ENGINEER TIMOTHY J. WILLIAMS

SIGNATURE DATE 9/30/04

SIG. INVENTORY NO. 14-1096

29-SEP-2004 08:26
N:*PEOPLE~1\WORKGR~1\WTIPPRO~1\MR-0977A\Signals\#141096~1.SIG
1:1.0CF