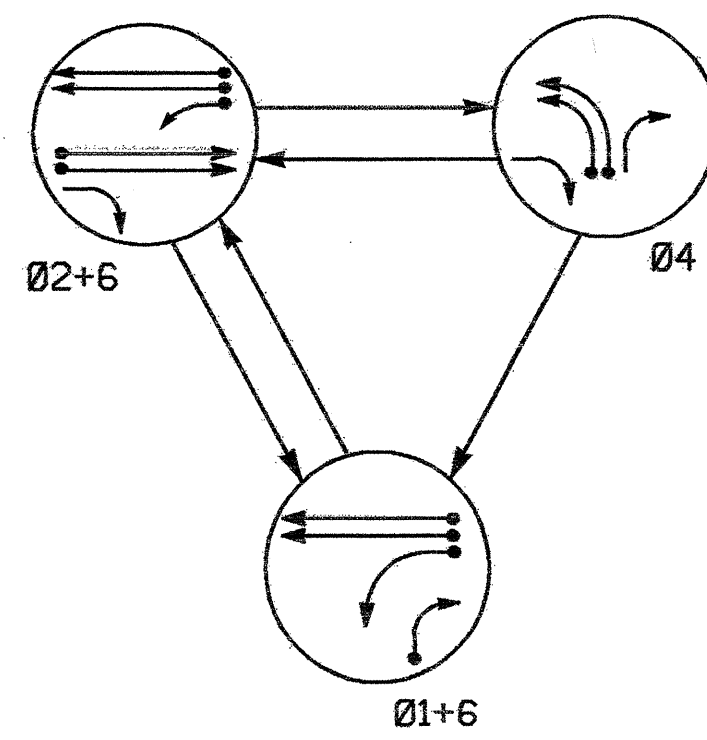


PHASING DIAGRAM

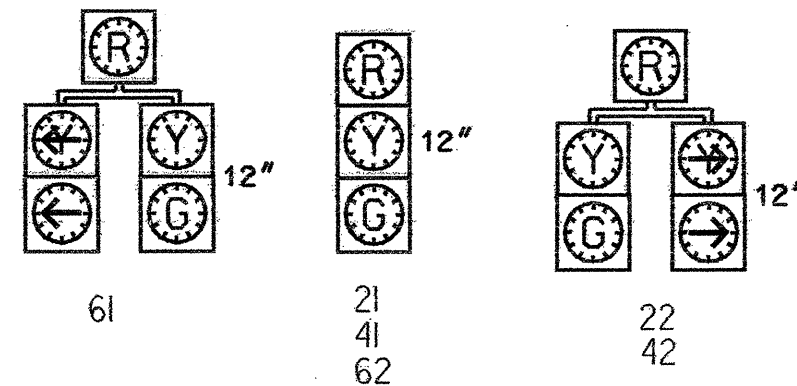


**PHASING DIAGRAM DETECTION LEGEND**  
 ● DETECTED MOVEMENT  
 ○ UNDETECTED MOVEMENT (OVERLAP)  
 - - - UNSIGNALIZED MOVEMENT  
 - - - PEDESTRIAN MOVEMENT

| SIGNAL FACE | PHASE |      |    |       |
|-------------|-------|------|----|-------|
|             | Ø1+6  | Ø2+6 | Ø4 | FLASH |
| 21          | R     | G    | R  | Y     |
| 22          | R     | G    | R  | Y     |
| 41          | R     | R    | G  | R     |
| 42          | R     | R    | G  | R     |
| 61          | G     | G    | R  | Y     |
| 62          | G     | G    | R  | Y     |

SIGNAL FACE I.D.

○ Denotes L.E.D.



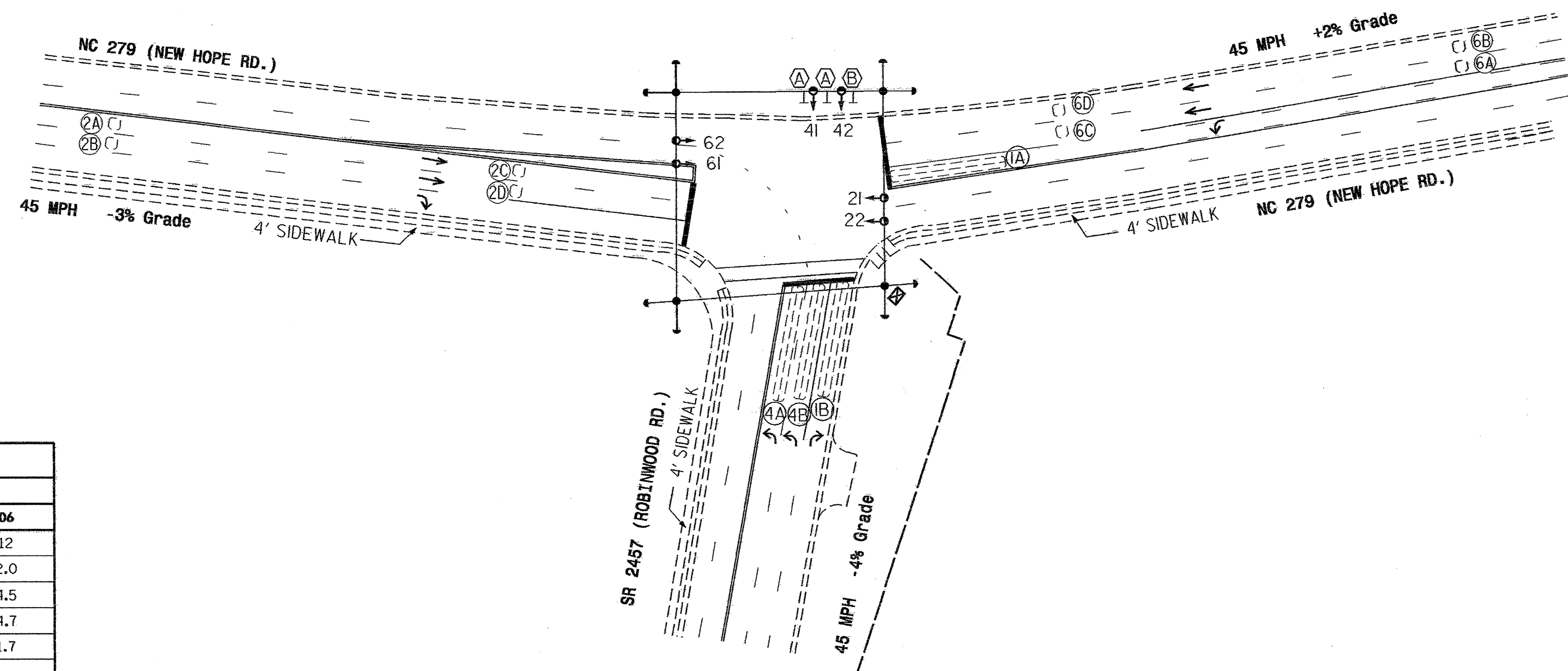
2070L LOOP & DETECTOR INSTALLATION

| LOOP   | INDUCTIVE LOOPS |          |                            |          | DETECTOR PROGRAMMING |         |           |                 |             |              |            |          |
|--------|-----------------|----------|----------------------------|----------|----------------------|---------|-----------|-----------------|-------------|--------------|------------|----------|
|        | SIZE (FT)       | TURNS    | DISTANCE FROM STOPBAR (FT) | NEW LOOP | PHASE                | CALLING | EXTENSION | FULL TIME DELAY | SYSTEM LOOP | STRETCH TIME | DELAY TIME | NEW CARD |
| 1A     | EXISTING        | EXISTING | EXISTING                   | -        | 1                    | Y       | Y         | -               | -           | -            | 15         | Y        |
| 1B     | EXISTING        | EXISTING | EXISTING                   | -        | 1                    | Y       | Y         | -               | -           | -            | 15         | Y        |
| 2A, 2B | EXISTING        | EXISTING | EXISTING                   | -        | 2                    | Y       | Y         | -               | -           | 1.8          | -          | Y        |
| 2C, 2D | EXISTING        | EXISTING | EXISTING                   | -        | 2                    | Y       | Y         | -               | -           | -            | -          | Y        |
| 4A     | EXISTING        | EXISTING | EXISTING                   | -        | 4                    | Y       | Y         | -               | -           | -            | 3          | Y        |
| 4B     | EXISTING        | EXISTING | EXISTING                   | -        | 4                    | Y       | Y         | -               | -           | -            | -          | Y        |
| 6A, 6B | EXISTING        | EXISTING | EXISTING                   | -        | 6                    | Y       | Y         | -               | -           | 1.8          | -          | Y        |
| 6C, 6D | EXISTING        | EXISTING | EXISTING                   | -        | 6                    | Y       | Y         | -               | -           | -            | -          | Y        |

3 Phase Fully Actuated (Gastonia City System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 may be lagged in coordination.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- City system data: Controller Asset 0154.



| FEATURE                | PHASE |            |     |            |
|------------------------|-------|------------|-----|------------|
|                        | Ø1    | Ø2         | Ø4  | Ø6         |
| Min Green 1*           | 7     | 12         | 7   | 12         |
| Extension 1*           | 1.0   | 2.0        | 1.0 | 2.0        |
| Max Green 1*           | 15    | 45         | 25  | 45         |
| Yellow Clearance       | 4.0   | 4.7        | 4.0 | 4.7        |
| Red Clearance          | 1.7   | 1.7        | 2.6 | 1.7        |
| Walk 1*                | -     | -          | -   | -          |
| Don't Walk 1           | -     | -          | -   | -          |
| Seconds Per Actuation* | -     | -          | -   | -          |
| Max Variable Initial*  | -     | -          | -   | -          |
| Time Before Reduction* | -     | -          | -   | -          |
| Time To Reduce*        | -     | -          | -   | -          |
| Minimum Gap            | -     | -          | -   | -          |
| 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.

| PROPOSED   | EXISTING                 |
|--|--------------------------|
| ○ → Traffic Signal Head                            | ● → Traffic Signal Head  |
| ○ → Modified Signal Head                           | N/A                      |
| ○ → Pedestrian Signal Head                         | N/A                      |
| ○ → Sign   | N/A                      |
| ○ → Pedestrian Signal Head With Push Button & Sign | N/A                      |
| ○ → Signal Pole with Guy                           | N/A                      |
| ○ → Signal Pole with Sidewalk Guy                  | N/A                      |
| ○ → Inductive Loop Detector                        | N/A                      |
| ○ → Controller & Cabinet                           | N/A                      |
| ○ → Junction Box                                   | N/A                      |
| ○ → 2-in Underground Conduit                       | N/A                      |
| N/A → Right of Way                                 | N/A                      |
| → Directional Arrow                                | → Directional Arrow      |
| → Pavement Marking Arrow                           | → Pavement Marking Arrow |
| ⊙ LEFT ARROW 'ONLY' SIGN (R3-5L)                   | N/A                      |
| ⊙ RIGHT ARROW 'ONLY' SIGN (R3-5R)                  | N/A                      |

Signal Upgrade

|  |   |                      |   |
|--|---|----------------------|---|
|  | <p>NC 279 (New Hope Rd.)<br/>at<br/>SR 2457 (Robinwood Rd.)</p>   |                      |   |
|  | <p>Division 12 Gaston County Gastonia</p> <p>PLAN DATE: December 2004 REVIEWED BY: C. Pierce</p> <p>PREPARED BY: C. Pierce REVIEWED BY: D. Y. Ishak</p> | <p>SCALE: 1"=50'</p> |   |
| <p>12-MAY-2005 08:27<br/>w:\p0401\ee-un1\mwork\p0401\p\project\sig-114\20154\sig-114.dgn</p> |   |                      | <p>SIGNATURE DATE</p> <p>SIG. INVENTORY NO. 12-0154</p> |