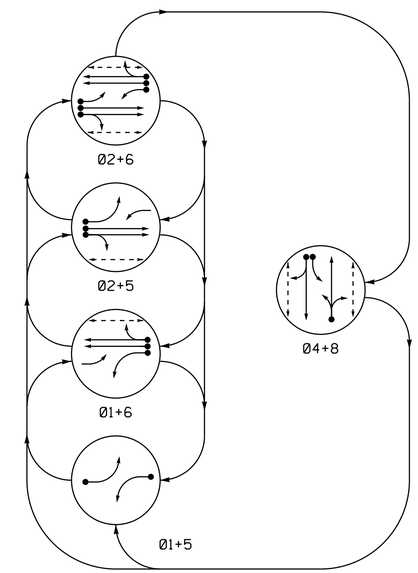
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| B-4490 | Sig. 13.0 |

## PHASING DIAGRAM




PHASING DIAGRAM DETECTION LEGEND

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

## TABLE OF OPERATION

| SIGNAL FACE | PHASE 01+5 | 01+6 | 02+5 | 02+6 | 04+8 | FLASH |
|---|---|---|---|---|---|---|
| 11 | ~~←~~ | ~~←~~ | ~~F Y~~ | ~~F Y~~ | ~~R~~ | ~~Y~~ |
| 21,22 | R | R | G | G | R | Y |
| 41,42 | R | R | R | R | G | R |
| 51 | ~~←~~ | ~~F Y~~ | ~~←~~ | ~~F Y~~ | ~~R~~ | ~~Y~~ |
| 61,62 | R | G | R | G | R | Y |
| 81,82 | R | R | R | R | G | R |
| P21,P22 | DW | DW | W | W | DW | DRK |
| P41,P42 | DW | DW | DW | DW | W | DRK |
| P61,P62 | DW | W | DW | W | DW | DRK |
| P81,P82✳ | DW | DW | DW | DW | W | DRK |

✳ Re-connect and Unbag

## SIGNAL FACE I.D.

All Heads L.E.D.




## OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

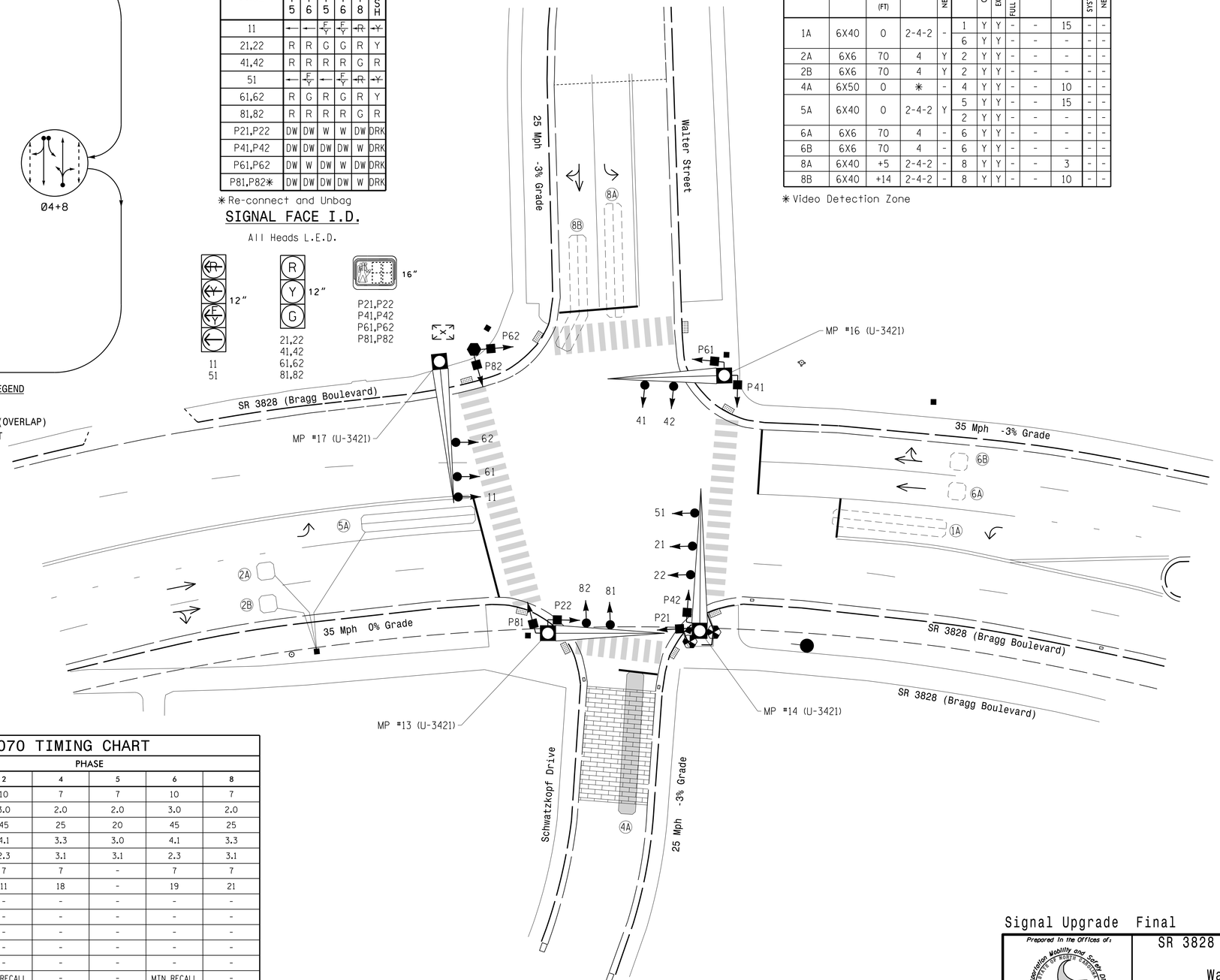
| INDUCTIVE LOOPS | | | | | DETECTOR PROGRAMMING | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PHASE | CALLING | EXTENSION | FULL TIME DELAY | STRETCH TIME | DELAY TIME | SYSTEM LOOP | NEW CARD |
| 1A | 6X40 | 0 | 2-4-2 | - | 1 | Y | Y | - | - | 15 | - | - |
| | | | | | 6 | Y | Y | - | - | - | - | - |
| 2A | 6X6 | 70 | 4 | Y | 2 | Y | Y | - | - | - | - | - |
| 2B | 6X6 | 70 | 4 | Y | 2 | Y | Y | - | - | - | - | - |
| 4A | 6X50 | 0 | ✳ | - | 4 | Y | Y | - | - | 10 | - | - |
| 5A | 6X40 | 0 | 2-4-2 | Y | 5 | Y | Y | - | - | 15 | - | - |
| | | | | | 2 | Y | Y | - | - | - | - | - |
| 6A | 6X6 | 70 | 4 | - | 6 | Y | Y | - | - | - | - | - |
| 6B | 6X6 | 70 | 4 | - | 6 | Y | Y | - | - | - | - | - |
| 8A | 6X40 | +5 | 2-4-2 | - | 8 | Y | Y | - | - | 3 | - | - |
| 8B | 6X40 | +14 | 2-4-2 | - | 8 | Y | Y | - | - | 10 | - | - |

✳ Video Detection Zone

5 Phase
Fully Actuated
Fayetteville Signal System

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
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. Set all detector units to presence mode.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. Reposition heads 21, 22, 61, and 62.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.




## 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 | |
| | Video Detection Zone | |
| | Controller & Cabinet | |
| | Junction Box | |
| | 2-in Underground Conduit | |
| N/A | Right of Way | |
| | Directional Arrow | |
| | Metal Pole with Mastarm | |
| | Type II Signal Pedestal | |
| | Out of Pavement Detector | |

## OASIS 2070 TIMING CHART

| FEATURE | PHASE 1 | 2 | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|---|
| Min Green 1 * | 7 | 10 | 7 | 7 | 10 | 7 |
| Extension 1 * | 2.0 | 3.0 | 2.0 | 2.0 | 3.0 | 2.0 |
| Max Green 1 * | 20 | 45 | 25 | 20 | 45 | 25 |
| Yellow Clearance | 3.0 | 4.1 | 3.3 | 3.0 | 4.1 | 3.3 |
| Red Clearance | 3.2 | 2.3 | 3.1 | 3.1 | 2.3 | 3.1 |
| Walk 1 * | - | 7 | 7 | - | 7 | 7 |
| Don't Walk 1 | - | 11 | 18 | - | 19 | 21 |
| 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 | - | - | ON | - | - | ON |
| Simultaneous Gap | ON | 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.

Signal Upgrade Final

Prepared in the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 20 1"=20'

SR 3828 (Bragg Boulevard)
at
Walter Street

Division 6 Cumberland County Fayetteville

| | | | |
|---|---|---|---|
| PLAN DATE: | July 2015 | REVIEWED BY: | PLA |
| PREPARED BY: | JPG | REVIEWED BY: | |

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029904 ENGINEER JASON P. GALLOWAY

DocuSigned by: Jason P. Galloway 8/27/2015
F1002EA7D4B1641D...
DATE

SIG. INVENTORY NO. 06-1210

27-AUG-2015 09:55
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jgalloway