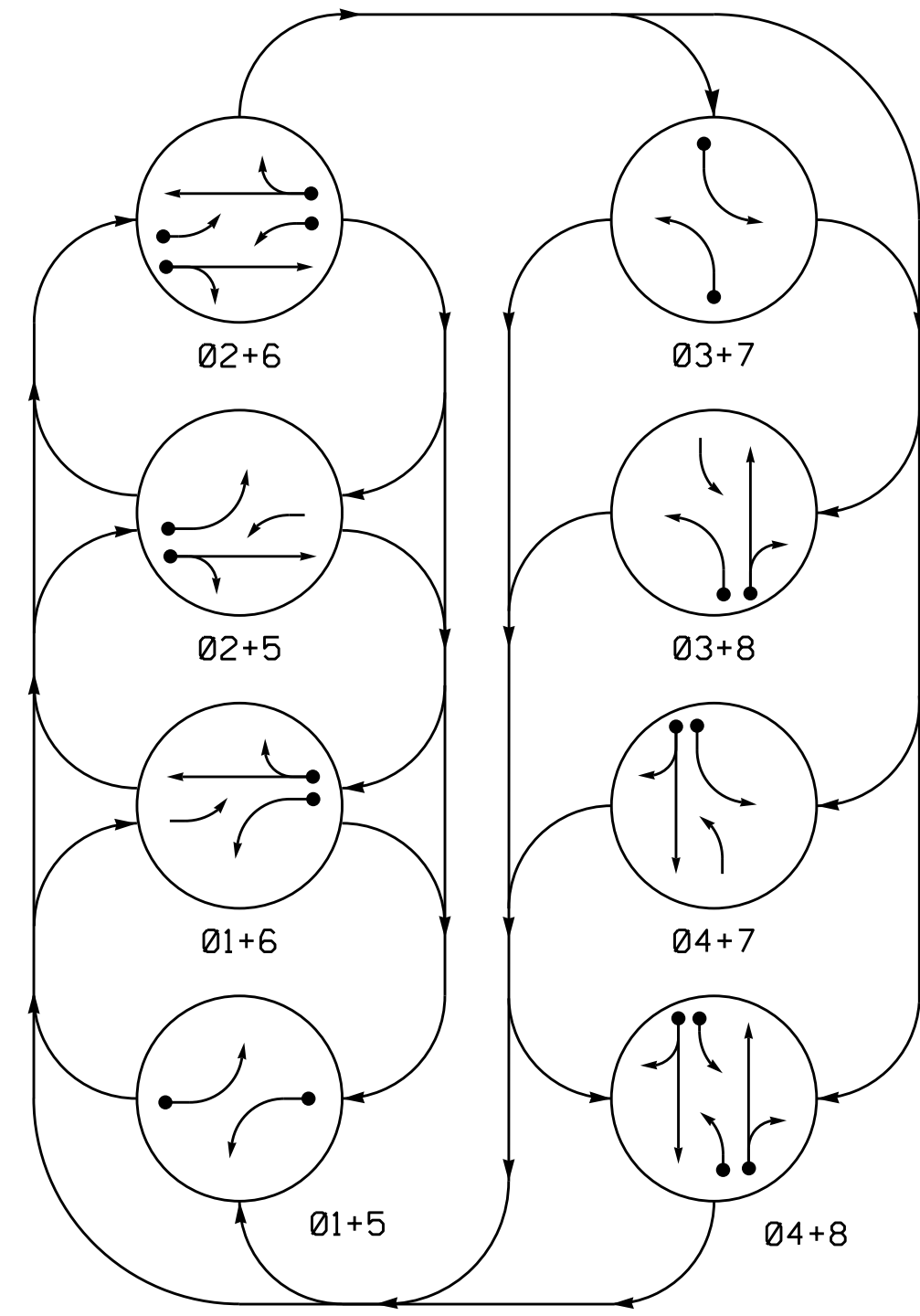


PHASING DIAGRAM



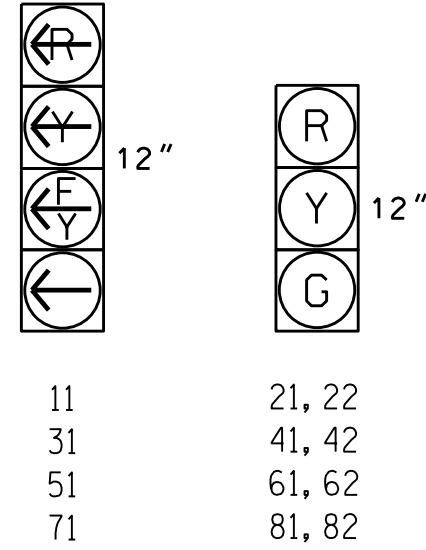
PHASING DIAGRAM DETECTION LEGEND

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

| SIGNAL FACE | PHASE | | | | | | | |
|-------------|-------|------|------|------|------|------|------|------|
| | 01+5 | 01+6 | 02+5 | 02+6 | 03+7 | 03+8 | 04+7 | 04+8 |
| 11 | - | - | F | F | R | R | R | R |
| 21,22 | R | R | G | G | R | R | R | Y |
| 31 | R | R | R | R | - | - | F | F |
| 41,42 | R | R | R | R | R | R | G | R |
| 51 | - | F | F | F | R | R | R | Y |
| 61,62 | R | G | R | G | R | R | R | Y |
| 71 | R | R | R | R | - | - | F | F |
| 81,82 | R | R | R | R | G | R | G | R |

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

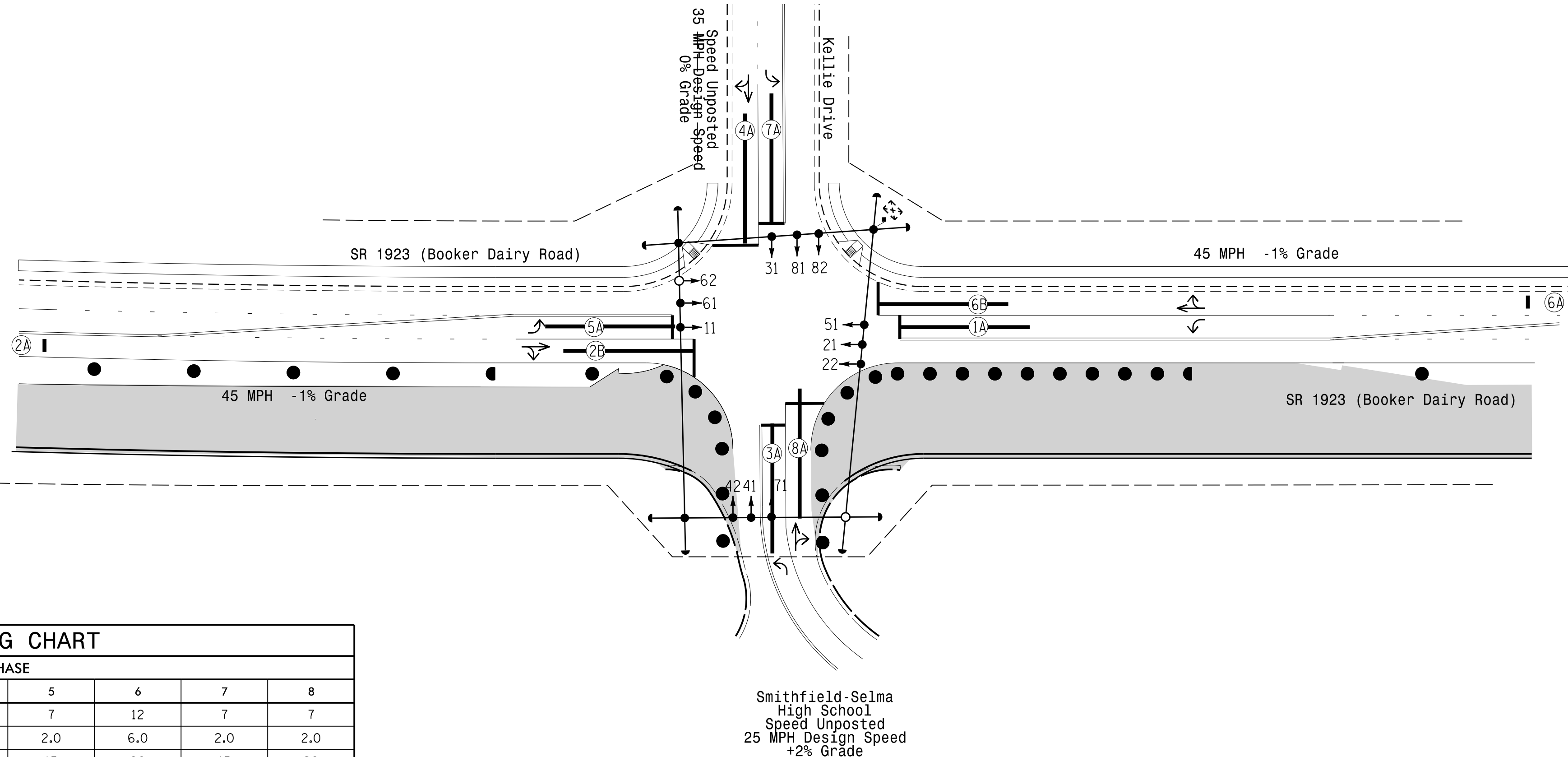
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | DETECTOR PROGRAMMING | | | | | | | |
|------|-----------|----------------------------|-------|----------|----------------------|---------|-----------|--------------|------------|-------------|----------|---|
| | | | | | PHASE | CALLING | EXTENSION | STRETCH TIME | DELAY TIME | SYSTEM LOOP | NEW CARD | |
| 1A | 6X60 | 0 | * | Y | 1 | Y | Y | - | - | 15 | - | Y |
| | | | | | 6 | Y | Y | Y | - | 3 | - | Y |
| 2A | 6X6 | 300 | * | Y | 2 | Y | Y | - | - | - | - | Y |
| 2B | 6X6 | 0 | * | Y | 2 | Y | Y | Y | 2.0 | 5 | - | Y |
| 3A | 6X60 | 0 | * | Y | 3 | Y | Y | - | - | 3 | - | Y |
| 4A | 6X60 | 0 | * | Y | 4 | Y | Y | - | - | 10 | - | Y |
| 5A | 6X60 | 0 | * | Y | 5 | Y | Y | - | - | 15 | - | Y |
| | | | | | 2 | Y | Y | Y | - | 3 | - | Y |
| 6A | 6X6 | 300 | * | Y | 6 | Y | Y | - | - | - | - | Y |
| 6B | 6X6 | 0 | * | Y | 6 | Y | Y | Y | 2.0 | 5 | - | Y |
| 7A | 6X60 | 0 | * | Y | 7 | Y | Y | - | - | 3 | - | Y |
| 8A | 6X60 | +5 | * | Y | 8 | Y | Y | - | - | 10 | - | Y |

* Video Detection

8 Phase Fully Actuated Isolated

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
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. Phase 3 and/or phase 7 may be lagged.
5. Set all detector units to presence mode.



OASIS 2070 TIMING CHART

| FEATURE | PHASE | | | | | | | |
|-------------------------|-------|------------|-----|-----|-----|------------|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Min Green 1 * | 7 | 12 | 7 | 7 | 7 | 12 | 7 | 7 |
| Extension 1 * | 2.0 | 6.0 | 2.0 | 2.0 | 2.0 | 6.0 | 2.0 | 2.0 |
| Max Green 1 * | 15 | 90 | 15 | 20 | 15 | 90 | 15 | 20 |
| Yellow Clearance | 3.0 | 4.6 | 3.0 | 3.8 | 3.0 | 4.6 | 3.0 | 3.8 |
| Red Clearance | 2.4 | 1.2 | 2.1 | 2.0 | 2.1 | 1.2 | 2.3 | 2.0 |
| Walk 1 * | - | - | - | - | - | - | - | - |
| Don't Walk 1 | - | - | - | - | - | - | - | - |
| Seconds Per Actuation * | - | - | - | - | - | - | - | - |
| Max Variable Initial * | - | - | - | - | - | - | - | - |
| Time Before Reduction * | - | 15 | - | - | - | 15 | - | - |
| Time To Reduce * | - | 45 | - | - | - | 45 | - | - |
| Minimum Gap | - | 3.0 | - | - | - | 3.0 | - | - |
| Recall Mode | - | MIN RECALL | - | - | - | MIN RECALL | - | - |
| Vehicle Call Memory | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | ON | - | - | - | ON |
| Simultaneous Gap | ON | ON | 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.

- LEGEND**
- | | |
|-----------------------------------|--|
| PROPOSED | EXISTING |
| ○ → Traffic Signal Head | ● → N/A |
| ● → Modified Signal Head | - □ - N/A |
| □ → Sign | □ → Pedestrian Signal Head With Push Button & Sign |
| ○ → Pedestrian Signal Head | ○ → Signal Pole with Guy |
| ○ → Signal Pole with Sidewalk Guy | ○ → Inductive Loop Detector |
| □ → Inductive Loop Detector | □ → Controller & Cabinet |
| □ → Junction Box | □ → 2-in Underground Conduit |
| - - - Right of Way | - - - Directional Arrow |
| - - - Construction Limits | - - - Drums |
| ● ● ● Curb Ramp | ● ● ● NA |
| - - - Video Detection Area | - - - |

Signal Upgrade - Phase 2 - Temp 2

Prepared in the Offices of:
TRANSPORTATION MOBILITY AND SAFETY GROUP
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 STATE OF NORTH CAROLINA
 Signal Design Section

SR 1923 (Booker Dairy Road) at Kellie Dr/Smithfield-Selma High School

Division 4 Johnston County Smithfield

PLAN DATE: August 2017 REVIEWED BY: JPG
 PREPARED BY: KGP, Jr. REVIEWED BY:

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

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 0 40 1"=40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 JASON P. GALLAWAY
 ENGINEER
 029904
 DATE: 9/7/2017
 SIG. INVENTORY NO. 04-1415T2