2 Phase Fully Actuated Signal System 11210

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. Set all detector units to presence
- 4. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

Traffic Signal Head Modified Signal Head

Sign

Pedestrian Signal Head With Push Button & Sign

Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector

> Controller & Cabinet Junction Box

Right of Way Directional Arrow

Directional Drill

Type II Signal Pedestal

No Left Turn Sign (R3-2)

----- 2-in Underground Conduit

Metal Pole with Mastarm

EXISTING

N/A

 \dashv

K K K

_ - - - - - -

 \longrightarrow

N/A

<u>PROPOSED</u>

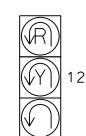
N/A

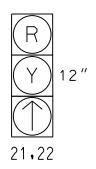
—— DD# ——

| | ASC | /3 DE | TECTOR | I | NST/ | \LLA | TION | CHAR | Т | | | |
|----------|--------------|-------------------------------------|--------|-------------|-------|---------|----------------|---------------|-------------------------|------|-------------|------|
| DETECTOR | | | | PROGRAMMING | | | | | | | | |
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PHASE | CALLING | EXTEND TIME | DELAY TIME | USE ADDED INITIAL | TYPE | SYSTEM LOOP | 0040 |
| 2A | 6X6 | 300 | 5 | Χ | 2 | Yes | - | - | Χ | N | - | 7 |
| 7A | 6X40 | 0 | 2-4-2 | Χ | 7 | Yes | ı | _ | - | N | - | |
| 7B | 6X40 | 0 | 2-4-2 | Χ | 7 | Yes | - | _ | _ | N | - | |

SIGNAL FACE I.D. PHASING DIAGRAM DETECTION LEGEND

All Heads L.E.D. ■ DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP)





| 12" 71,72 | R Y 12 21,22 |
|--------------|-----------------------|
|--------------|-----------------------|

TABLE OF OPERATION

SIGNAL

FACE

21, 22

71, 72

| | <u>Metal Pole #</u> -Y- Sta. 46+84 61.5' LT | 1 ± + | |
|----------------------------|---|-------------|---------------------------|
| | | | |
| R/W US 21 (Charlotte Highw | /ay) | | R/W 45 MPH (2% GRADE) |
| | | 22 - 21 | |
| | ® — — — — — — — — — — — — — — — — — — — | 71,7 | |
| T | | | US 21 (Charlotte Highway) |
| R/W | | | R/W |

| ASC/3 TI | MING C | HART | | |
|-------------------------|-------------|------|--|--|
| | PHASE | | | |
| FEATURE | 2 | 7 | | |
| Min Green * | 12 | 7 | | |
| Walk * | - | _ | | |
| Ped Clear | - | - | | |
| Veh. Extension * | 6.0 | 2.0 | | |
| Max 1 * | 60 | 30 | | |
| Yellow | 4.3 | 3.0 | | |
| Red Clear | 2.5 | 5.0 | | |
| Red Revert | 2.0 | 2.0 | | |
| Actuations B4 Add * | - | _ | | |
| Seconds /Actuation * | 2.5 | _ | | |
| Max Initial * | 34 | - | | |
| Time Before Reduction * | 15 | - | | |
| Time To Reduce * | 30 | - | | |
| Minimum Gap | 3.0 | - | | |
| Locking Detector | Χ | - | | |
| Recall Position | VEH. RECALL | - | | |
| Dual Entry | - | - | | |
| Simultaneous Gap | X | X | | |

PHASING DIAGRAM

UNSIGNALIZED MOVEMENT

< - -> PEDESTRIAN MOVEMENT

* 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 |
|-----|--------------|
| | <u></u> |

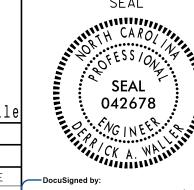


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US 21 (Charlotte Highway) US 21 SB U-Turn to US 21 NB

| Woiss | | | | ` |
|---------------------------------------|---------------------------|----------------|--------|---------|
| | Division 12 Iredell | County | Moore | esville |
| Onol Design Section | PLAN DATE: May 2022 | REVIEWED BY: E | D Harr | `is |
| 750 N.Greenfield Pkwy,Garner.NC 27529 | PREPARED BY: J. Hambright | REVIEWED BY: R | M Munc | e y |
| SCALE | REVISIONS | | INIT. | DATE |
| / / . \ | | | | |



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

3/22/202 Derrick Waller SIG. INVENTORY NO.