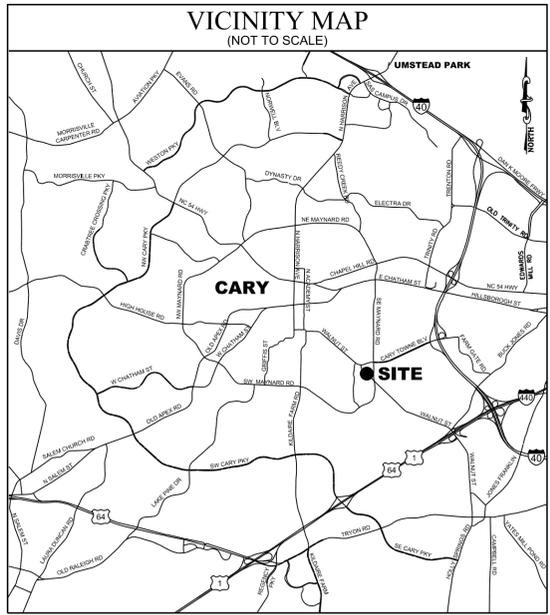


27-OCT-2022 14:58 D:\Data\Iris\sp\Tation\Projects\TEG\Cur*100073537 TOC Walnut St PHB Design\04-Deliverable Development\05-Design Plans\03-Sheets\TOC Walnut St PHB - Title Sheet.dgn ST1F4685 AT LUS491089



TOWN of CARY NORTH CAROLINA

316 North Academy Street
Cary, N.C. 27513
Tel: 919-469-4030 Fax: 919-460-4935
www.townofcary.org

WALNUT STREET PEDESTRIAN HYBRID BEACON SIGNAL DESIGN PROJECT

Walnut Street near Cary High School
Project No. ST-1281

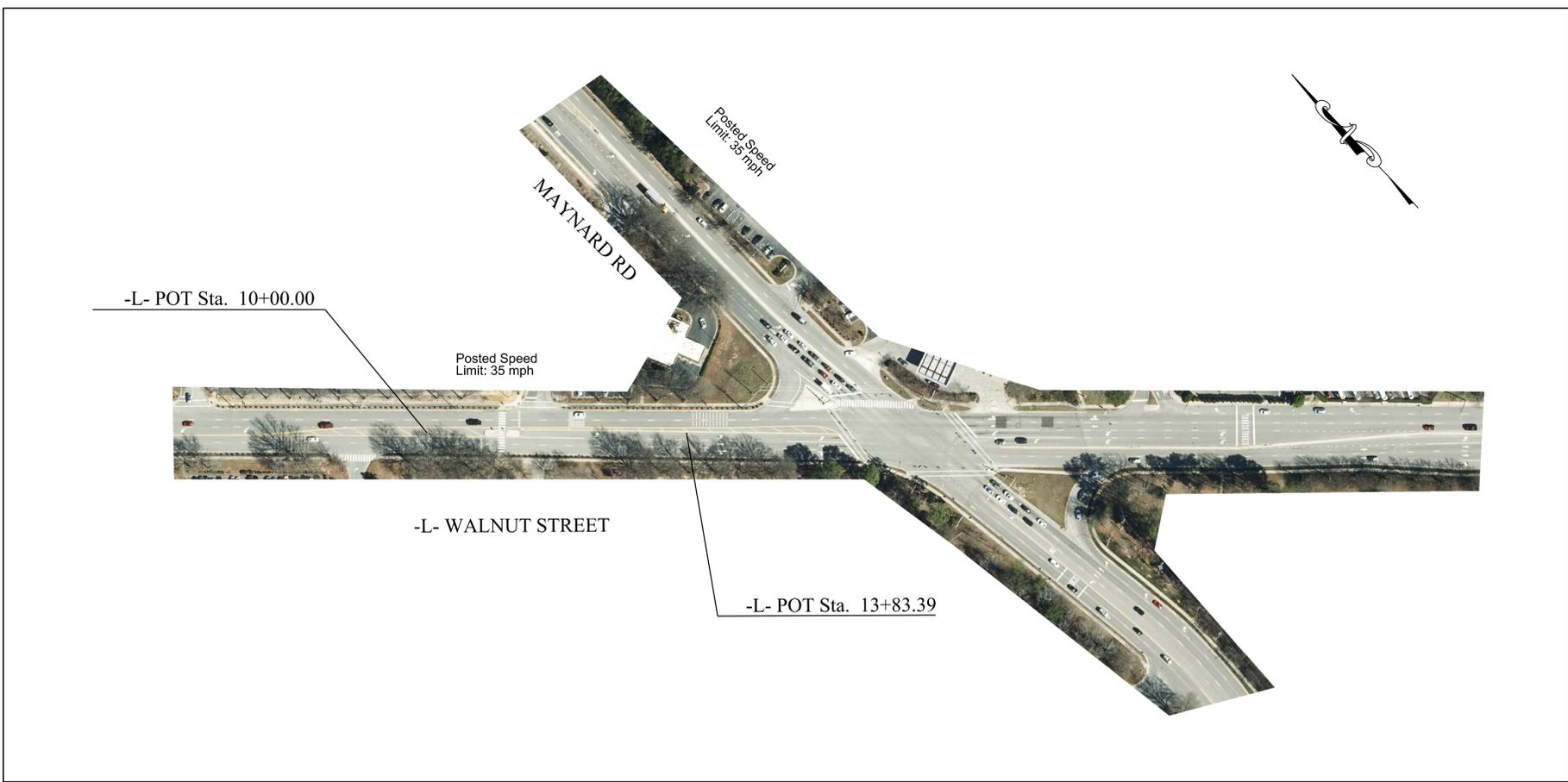
Contact Information:
priyatham.konda@townofcary.org
919.462.2005

| INDEX OF SHEETS | |
|-----------------|--------------------------|
| Sheet No. | Description |
| 1 | TITLE SHEET |
| 2 | SIGNAL PLAN |
| 3 THRU 4 | ELECTRICAL DETAILS |
| 5 | LOADING DIAGRAMS |
| 6 | CONSTRUCTION NOTES |
| 7 | CABLE ROUTING |
| 8 | SPLICE DIAGRAMS |
| 9 | ROADWAY DESIGN PLAN |
| 10 | LANDSCAPED PLAN & DETAIL |
| 11 | NOTE & PLANT SCHEDULE |
| Total Sheets | 12 |

ATKINS

1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

| SITE DATA | |
|----------------------|-------------|
| Walnut Street | |
| xx inch DIP | xxx L.F. |
| xx inch DIP | xxx L.F. |
| Bore & Jack | xxx L.F. ± |
| xx inch Casing | x Locations |



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

| Revisions | |
|-----------|-------------|
| Date | Description |
| . | . |
| . | . |
| . | . |
| . | . |
| . | . |

Survey for this project was completed by Town of Cary professional land surveyors. Coordinate control based on the following:
Horizontal _____ Vertical _____

Drawn By : _____

Designed By: _____

Date: _____

Project Engineer
ANTHONY M. ENCARNACION, PE

Signature

10/27/2022

Date

SEAL

Internal Control Approval Authorizing Release By The Town of Cary
Transportation & Facilities Dept. (Check Indicating Type of Plan)

___ Final Drawings (No Marking)

Certification Optional:

___ Preliminary Drawings - Do Not Use For Construction

___ Progress Drawing - Do Not Use For Construction

___ Final Drawing - Not Released For Construction

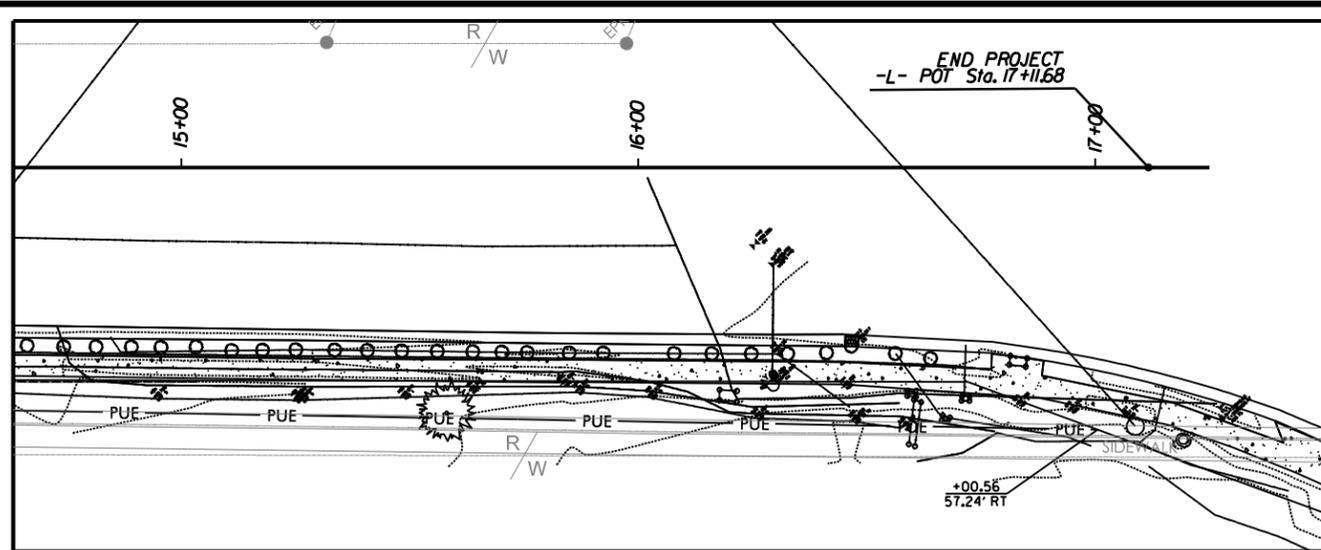
___ Final Drawing - For Review Purposes Only

___ Not a Certified Document as to the Original Document but ONLY as to the Revisions

8/17/99



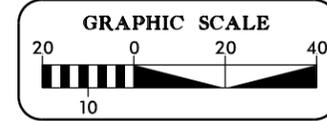
MATCHLINE INSET
-L- STATION 14+50



| | |
|---|------------------------|
| PROJECT REFERENCE NO. ST-1281 | SHEET NO. 09 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| | |

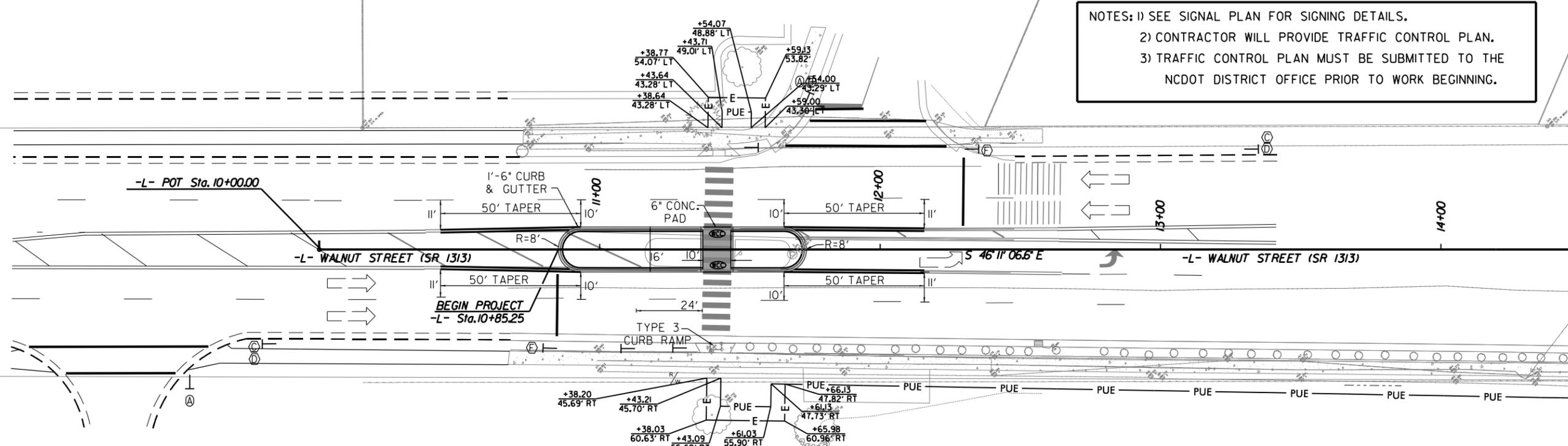
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ATKINS 1616 EAST WILBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6868 NCBEES #F-0326

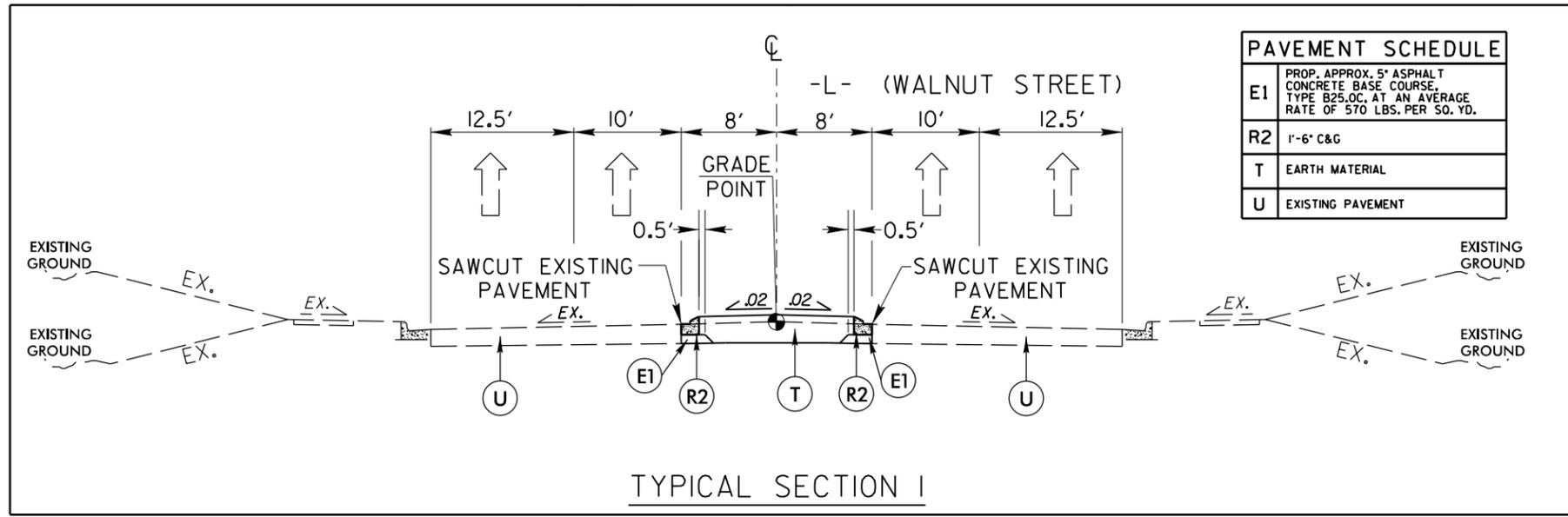


NOTES: 1) SEE SIGNAL PLAN FOR SIGNING DETAILS.
2) CONTRACTOR WILL PROVIDE TRAFFIC CONTROL PLAN.
3) TRAFFIC CONTROL PLAN MUST BE SUBMITTED TO THE NCDOT DISTRICT OFFICE PRIOR TO WORK BEGINNING.

MATCHLINE INSET -L- STATION 14+50



REVISIONS



| PAVEMENT SCHEDULE | |
|-------------------|--|
| E1 | PROP. APPROX. 5' ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. |
| R2 | 1'-6" C&G |
| T | EARTH MATERIAL |
| U | EXISTING PAVEMENT |

| SIGNING LEGEND | | |
|----------------|--|----------|
| PROPOSED | | EXISTING |
| (A) | "STOP" Sign (R1-1) | (A) |
| (B) | Right "TURNING VEHICLES" Yield "T" Pedestrian Sign (R10-15L) | (B) |
| (C) | Pedestrian Warning Sign (W11-2) | (C) |
| (D) | "AHEAD" Plaque (W16-9P) | (D) |
| (E) | "CROSSWALK-STOP ON RED" Sign (R10-23) | (E) |
| (F) | "STOP HERE ON RED" Sign (R10-6) | (F) |

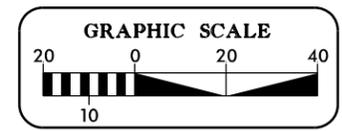
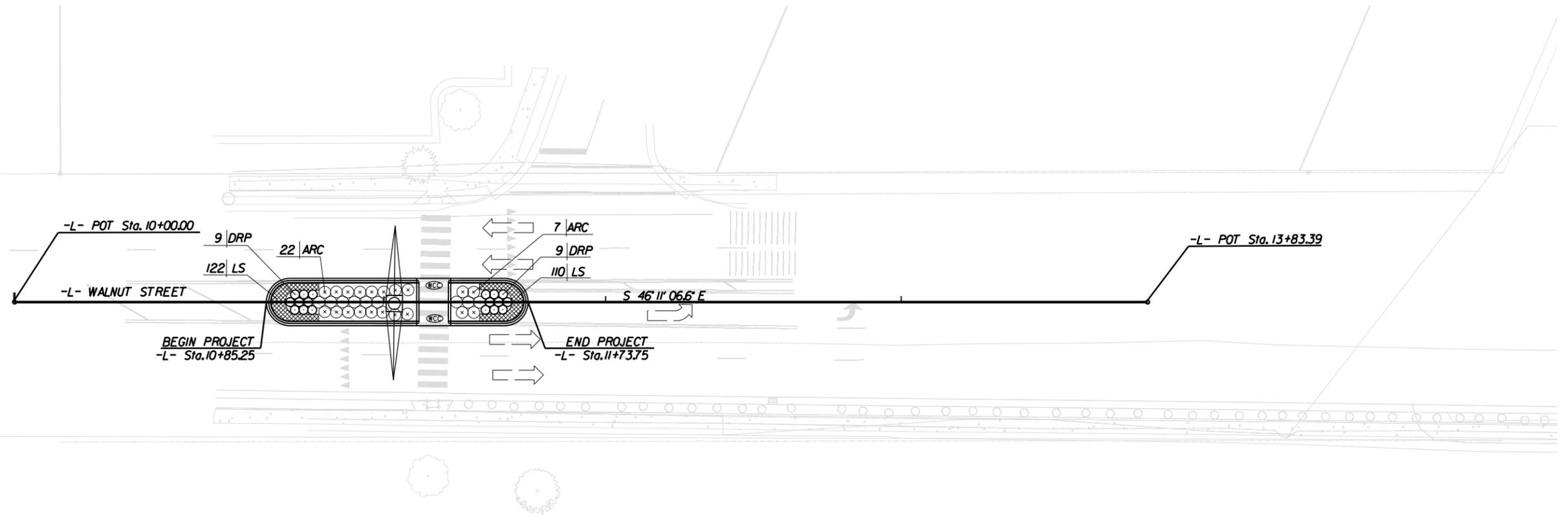
07 JUL 2023 15:06 R:\P\0\street_rdy.psh.dgn

| LANDSCAPE PLANT SCHEDULE | | | | | | |
|--|-----|----------|-----------------------------------|---------------------|--------|--------------------|
| SYMBOL | KEY | QUANTITY | SCIENTIFIC NAME | COMMON NAME | SIZE | COMMENT |
| SHRUBS AND ORNAMENTAL GRASSES | | | | | | |
| ⊗ | ARC | 29 | ABELIA X GRANDIFLORA 'ROSE CREEK' | ABELIA 'ROSE CREEK' | 3 GAL. | CONT, +/- 3' O.C. |
| ⊙ | RKP | 18 | ROSA 'MEJOCOS' PINK DRIFT | PINK DRIFT ROSE | 3 GAL. | CONT, +/- 3' O.C. |
| PERENNIALS AND GROUNDCOVERS | | | | | | |
| ⊗ | LS | 232 | LIRIOPE MUSCARI 'BIG BLUE' | LIRIOPE 'BIG BLUE' | 4" POT | CONT, +/- 12" O.C. |
| LANDSCAPE MULCH - 105 SQ. YDS. 4 INCH LAYER OF PINE STRAW. | | | | | | |
| MEDIAN PLANT TOPSOIL - 55 CU. YDS. - MIN. 18 INCHES DEPTH PLANT MIXTURE, REFER TO PLANTING DETAILS FOR MEDIAN CROWN AND NOTES. | | | | | | |
| FERTILIZER - RATE PER SOIL TEST RECOMMENDATIONS. PRE-EMERGENT TO BE APPLIED TO PLANT BEDS PER MANUFACTURER'S RECOMMENDATIONS. | | | | | | |

NOTE: LANDSCAPE MULCH ENTIRE MEDIAN AFTER PLANTING.

TOWN OF CARY MEDIAN NOTES:

1. CONTRACTOR TO COORDINATE WITH PROJECT MANAGER TO FIELD VERIFY ALIGNMENT OF CROSSWALK.
2. CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLAN FOR REVIEW TO PROJECT MANAGER PRIOR TO COMMENCING WORK.
3. CALL 811 BEFORE DIGGING.
4. FIELD VERIFY EXISTING LANE WIDTHS. LANES SHALL REMAIN THE SAME ONCE MEDIAN ISLAND AND PAVEMENT MARKINGS ARE INSTALLED.
5. CONSTRUCT CONCRETE CURB & GUTTER MEDIAN ISLAND.
6. CONTACT TOWN ARBORIST TO SELECT PLANTINGS FOR LANDSCAPED AREA.
7. WHEEL CHAIR RAMP LOCATIONS ARE APPROXIMATE ONLY. CROSSWALK SHOULD BE LOCATED AFTER THE RAMPS HAVE BEEN INSTALLED.
8. LOCATE PUSH BUTTONS TO MEET ADA REQUIREMENTS.
9. ALL SIGNS ARE FLUORESCENT YELLOW GREEN. FIELD LOCATE SIGNS TO AVOID VISIBLE OBSTRUCTION.



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

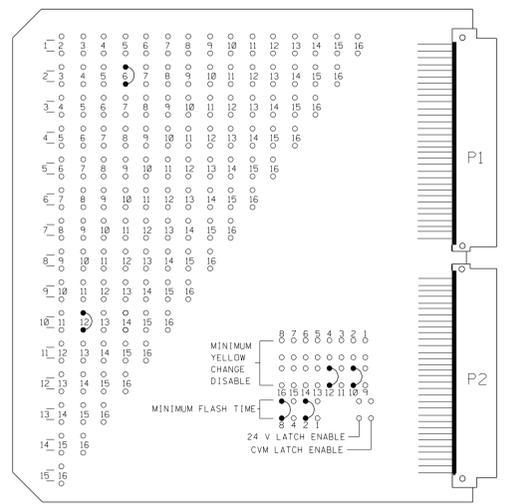
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEEES #F-0326

| | |
|-----------|--|
| Signature | |
| Revisions | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Proj. No. ST0000
Design By: CH
Drawn By: CH
Date: June 2021
Scale Hor: 1" = 20'
Scale Ver: N/A

User Name : ZEN07241 Date : Mon, 12 Oct 2020 - 12:40pm Acad Version : R22.0a (LMS Tech) 22" x 34" Border

EDI MODEL MMU2-16LEip MALFUNCTION MANAGEMENT UNIT PROGRAMMING DETAIL (program card and tables as shown)



MMU PROGRAMMING CARD

| CHANNEL NUMBER | ENABLE/DISABLE |
|----------------|----------------|
| 1 | DISABLE |
| *2 | ENABLE |
| 3 | DISABLE |
| 4 | DISABLE |
| 5 | DISABLE |
| 6 | DISABLE |
| 7 | DISABLE |
| 8 | DISABLE |
| 9 | DISABLE |
| 10 | ENABLE |
| 11 | DISABLE |
| 12 | ENABLE |
| 13 | DISABLE |
| 14 | DISABLE |
| 15 | DISABLE |
| 16 | DISABLE |

| UNIT OPTIONS | |
|-----------------|---------|
| OPTION | SETTING |
| RECURRENT PULSE | ON |
| WALK DISABLE | OFF |
| LOG CVM FAULTS | ON |
| EXTERN WATCHDOG | OFF |
| 24V-2=12VDC | OFF |
| PCM CARD MEMORY | ON |
| LEDguard | ON |
| FORCE TYPE 16 | OFF |
| TYPE12-SOLC | OFF |
| VM 3x/Day Latch | ON |

| FLASHING YELLOW ARROW | |
|--------------------------|-----|
| CONFIG MODE | B |
| ENABLE CHANNEL PAIR, FYA | |
| CH 1-13 | OFF |
| CH 3-14 | OFF |
| CH 5-15 | OFF |
| CH 7-16 | OFF |
| RED/YEL INPUT ENABLE | |
| CH 1 | OFF |
| CH 3 | OFF |
| CH 5 | OFF |
| CH 7 | OFF |
| FLASH RATE FAULT | |
| FYA TRAP DETECT | OFF |

MMU PROGRAMMING NOTE
ENSURE YELLOW CHANGE PLUS RED CLEARANCE MONITORING IS ENABLED FOR ALL CHANNELS.

* Only enable R-Y Dual Indication for this channel. During the Flashing Yellow Clearance interval, channel 2 Green will be active at the same time the logic is instructed to turn on channel 2 Yellow (a G-Y Dual Indication). Enabling G-Y Dual Indication would result in a self made flash condition.

NOTES

- To prevent "flash-conflict" problems, wire all unused load switches to flash red. Verify that signal heads flash in accordance with the Signal Plans.
- To prevent red failures on unused monitor channels, tie unused load switch red outputs 1,3,4,5,7,8,9,11,13,14,15, and 16 to load switch AC+ by inserting a jumper plug in the unused load switch socket from pin 1 (LS AC+) to pin 3 (RED out). Make sure all flash transfer relays are in place.
- Program controller to start up in phase 2 Walk and 6 Walk.
- Set power-up flash time to 10 seconds and implement on the Malfunction Management Unit. Set controller power-up flash time to 0 seconds.
- Enable simultaneous gap-out feature for all phases.
- Program phases 2 and 6 for Rest in Walk.
- Program phases 2 and 6 for Ped Recall.
- Program phases 4 and 8 for PED CLR>RED.

EQUIPMENT INFORMATION

CONTROLLER.....2070LXN2
 CABINETTS-2
 SOFTWAREECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 LOADBAY POSITIONS.....16
 LOAD SWITCHES USED.....2,6,10,12
 PHASES USED.....2,*2PED,*4,4PED,6,*6PED,*8,8PED
 OVERLAPS.....NONE
 * Used for timing purposes only.

OPERATIONAL NOTES

- In order for the controller to perform the Pedestrian Hybrid Beacon (HAWK signal) sequence, special logic programming is necessary. Refer to sheet 2 for the Econolite ASC/3-2070 Logic Processor Programming Detail.
- For operational purposes, Phase 2 and Phase 6 both run dummy pedestrian phases that are required to produce the correct HAWK signal sequence. There are no Phase 2 or Phase 6 pedestrian heads.
- The only Phase 6 load switch output that is being used drives one of the red signal faces of each signal head.
- The Logic Processor flashes Phase 2 Yellow during the Phase 2 pedestrian clearance phase, and Phase 2 Yellow drives the solid Yellow signal faces during Phase 2 vehicle yellow clear.
- The Phase 2 and Phase 6 Red outputs drive the solid Red displays during Phase 2 and 6 Red. The Logic Processor flashes the Phase 2 and Phase 6 Red outputs in a wig-wag pattern during Phase 4+8 Ped Clear and thru Phase 4+8 vehicle Yellow and Red clear.
- The controller must be programmed for Ped Clear Thru Red for Pedestrian Phases 4 and 8 so that the Red displays continue to flash during Phases 4 and 8 Yellow clear and Red clear.
- Make sure that all Phase 2 and Phase 6 timings match each other, and that all Phase 4 and Phase 8 timings match each other.
- The Ped 4 push button is programmed to call Ped 4 and Ped 8, and the Ped 8 push button is programmed to call Ped 8 and Ped 4.

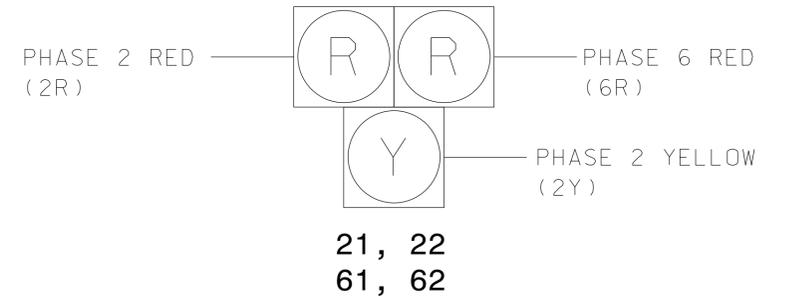
SIGNAL HEAD HOOK-UP CHART

| PHASE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 2 PED | 4 PED | 6 PED | 8 PED | OLA | OLB | OLC | OLD |
|-----------------|----|----------------|----|----|----|----------------|----|----|-------|-------|-------|-------|-----|-----|-----|-----|
| SIGNAL HEAD NO. | NU | 21,22 61,62 | NU | NC | NU | 21,22 61,62 | NU | NC | NC | P41 | NC | P81 | NU | NU | NU | NU |
| RED | | 2R | | | | 6R | | | | | | | | | | |
| YELLOW | | 2Y | | | | * | | | | | | | | | | |
| GREEN | | * | | | | * | | | | | | | | | | |
| RED ARROW | | | | | | | | | | | | | | | | |
| YELLOW ARROW | | | | | | | | | | | | | | | | |
| GREEN ARROW | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 10R | | 12R | | | | |
| | | | | | | | | | | 10G | | 12G | | | | |

NU = Not Used
NC = Not Connected

* Denotes install load resistor. See Load Resistor Installation Detail this sheet.

SIGNAL HEAD WIRING DETAIL (wire signal as shown)



DETECTOR RACK SET-UP DETAIL

INSERT DETECTOR CARDS IN RACK ACCORDING TO THE DETAIL SHOWN BELOW. PARTICULAR DETECTOR CHANNELS WILL CALL PHASES INDICATED.

| BIU | SLOT |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | EMPTY |

WIRE LOOPS TO TERMINALS ON LOOP PANEL AS SHOWN IN THE CHART BELOW

| LOOP NO. | LOOP PANEL TERMINALS |
|----------|----------------------|
| NU | L1A,L1B |
| NU | L2A,L2B |
| NU | L3A,L3B |
| NU | L4A,L4B |
| NU | L5A,L5B |
| NU | L6A,L6B |
| NU | L7A,L7B |
| NU | L8A,L8B |
| NU | L9A,L9B |
| NU | L10A,L10B |
| NU | L11A,L11B |
| NU | L12A,L12B |
| NU | L13A,L13B |
| NU | L14A,L14B |
| NU | L15A,L15B |
| NU | L16A,L16B |

PROGRAM CONTROLLER DETECTORS ACCORDING TO THE SCHEDULE SHOWN IN THE CHART BELOW

| CONTROLLER DETECTOR NO. | FUNCTION | TIMING | |
|-------------------------|----------|---------|-----------|
| | | FEATURE | TIME(SEC) |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |

TIMING INTERVAL

- PHASE 2+6 WALK = Dark Display
- PHASE 2+6 PED CLEAR = Flashing Yellow Display
- PHASE 2+6 VEH YEL CLR = Steady Yellow Display
- PHASE 2+6 RED CLEAR = Steady Red Display
- PHASE 4+8 WALK = Steady Red Display
- PHASE 4+8 PED CLEAR = Alternating Flashing Red Display
- PHASE 4+8 VEH YEL CLR = Alternating Flashing Red Display
- PHASE 4+8 VEH RED CLR = Alternating Flashing Red Display

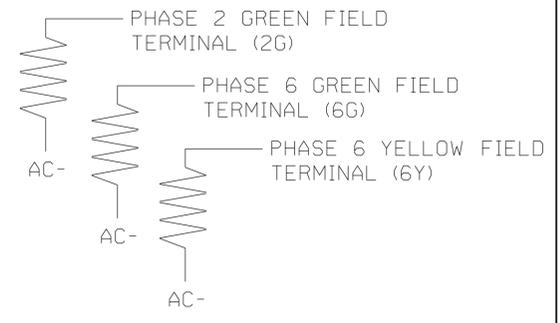
NC Dept of Transportation
 Division of Highways
 Final Drawing Date: 11/09/2022
 Prepared by: [Signature]
 ITS & Signals Unit

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-0933
 DESIGNED: March 2022
 SEALED: 10/27/2022
 REVISED:

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBEES #F-0326

LOAD RESISTOR INSTALLATION DETAIL (install resistors as shown below)

| VALUE (ohms) | WATTAGE |
|--------------|-----------|
| 1.5K - 1.9K | 25W (min) |
| 2.0K - 3.0K | 10W (min) |



Electrical Detail - Sheet 1 of 2

Prepared for the Offices of:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Pedestrian Hybrid Beacon on SR 1313 (Walnut Street) at Cary High School

Division 5 Wake County Cary
 PLAN DATE: March 2022 REVIEWED BY: PL Alexander
 PREPARED BY: AM Encarnacion REVIEWED BY:

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

SEAL

 10/27/2022
 DATE
 SIGNATURE
 DATE
 SIG. INVENTORY NO. 05-0933

ECONOLITE ASC/3-2070 LOGIC PROCESSOR PROGRAMMING DETAIL TO PRODUCE SPECIAL PEDESTRIAN HYBRID BEACON SEQUENCE

(program controller as shown)

- From Main Menu select 1. CONFIGURATION
- From CONFIGURATION Submenu select 8. LOGIC PROCESSOR
- From LOGIC PROCESSOR Submenu select 2. LOGIC STATEMENTS

ENTER A "1" IN THE LP# FIELD, PRESS 'ENTER', AND PROGRAM AS SHOWN.

```

LP#: 1 COPY FROM: 1 ACTIVE: M (T/F)
IF PED ON PH PED CLR 2 IS ON
AND LP COB CODE ON 546

THEN SIG SET PH YELLOW 2 ON

ELSE
    
```

LOGIC TO FLASH YELLOW SIGNAL FACES AFTER A PED CALL IS PLACED.

- From Main Menu select 1. CONFIGURATION
- From CONFIGURATION Submenu select 8. LOGIC PROCESSOR
- From LOGIC PROCESSOR Submenu select 1. LOGIC STATEMENT CONTROL

ENABLE LOGIC PROCESSOR STATEMENTS 1, 2 & 3 BY POSITIONING THE CURSOR OVER THE FIELDS SHOWN BELOW AND USING THE TOGGLE KEY TO ENABLE THEM.

| LOGIC STATEMENT CONTROL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LP 1-15 | E | E | E | . | . | . | . | . | . | . | . | . | . | . | . |
| LP 16-30 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| LP 31-45 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| LP 46-60 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| LP 61-75 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| LP 76-90 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

END PROGRAMMING

ENTER A "2" IN THE LP# FIELD, PRESS 'ENTER', AND PROGRAM AS SHOWN.

```

LP#: 2 COPY FROM: 1 ACTIVE: M (T/F)
IF PED ON PH PED CLR 4 IS ON
AND LP COB CODE ON 546

THEN SIG SET PHASE RED 2 OFF

ELSE
    
```

LOGIC FOR ALTERNATING FLASH ON THE RED SIGNAL FACES DURING THE PHASE 4 PED CLEAR (FORCES PHASE 2 RED OFF).

ENTER A "3" IN THE LP# FIELD, PRESS 'ENTER', AND PROGRAM AS SHOWN.

```

LP#: 3 COPY FROM: 1 ACTIVE: M (T/F)
IF PED ON PH PED CLR 4 IS ON
AND LP COB CODE OFF 546

THEN SIG SET PHASE RED 6 OFF

ELSE
    
```

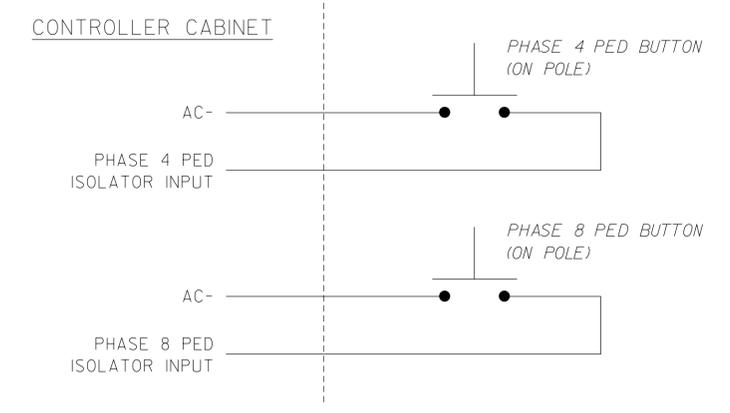
LOGIC FOR ALTERNATING FLASH ON THE RED SIGNAL FACES DURING THE PHASE 4 PED CLEAR (FORCES PHASE 6 RED OFF).

END PROGRAMMING

NOTE: COB CODE 546 is a 1Hz 50% Duty Cycle internal logic processor reference.

PEDESTRIAN PUSH-BUTTON WIRING DETAIL

(wire push-buttons as shown below)



COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

ECONOLITE ASC/3-2070 PEDESTRIAN DETECTOR PHASE ASSIGNMENT PROGRAMMING DETAIL

(program controller as shown)

- From Main Menu select 6. DETECTORS
- From DETECTOR Submenu select 3. PED DETECTOR INPUT ASSIGNMENT
- Press the TOGGLE key to select ECONOLITE MODE and press ENTER.

| PED DET PHASE ASSIGNMENT MODE: ECONOLITE v | | | | | | | | | | | | | | | | |
|--|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHASE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| D | 1 | X | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| E | 2 | . | X | . | . | . | . | . | . | . | . | . | . | . | . | . |
| T | 3 | . | . | X | . | . | . | . | . | . | . | . | . | . | . | . |
| E | 4 | . | . | . | X | . | . | X | . | . | . | . | . | . | . | . |
| C | 5 | . | . | . | . | X | . | . | . | . | . | . | . | . | . | . |
| T | 6 | . | . | . | . | . | X | . | . | . | . | . | . | . | . | . |
| O | 7 | . | . | . | . | . | . | X | . | . | . | . | . | . | . | . |
| R | 8 | . | . | X | . | . | . | X | . | . | . | . | . | . | . | . |
| | 9 | . | . | . | . | . | . | . | X | . | . | . | . | . | . | . |
| | 10 | . | . | . | . | . | . | . | . | X | . | . | . | . | . | . |
| | 11 | . | . | . | . | . | . | . | . | . | X | . | . | . | . | . |
| | 12 | . | . | . | . | . | . | . | . | . | . | X | . | . | . | . |
| | 13 | . | . | . | . | . | . | . | . | . | . | . | X | . | . | . |
| | 14 | . | . | . | . | . | . | . | . | . | . | . | . | X | . | . |
| | 15 | . | . | . | . | . | . | . | . | . | . | . | . | . | X | . |
| | 16 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | X |

"." = No assignment, disabled
 X = Assigns Pedestrian Push Button (PPB) to call the phase or phases
 2 = Call for Ped timing 2
 B = Allows for the PPB to call for Min Green 2 (BIKE GREEN)

LOAD SWITCH ASSIGNMENT DETAIL

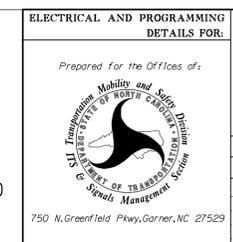
(program controller according to schedule in chart below)

| LOAD SWITCH NUMBER | FUNCTION |
|--------------------|----------|
| 1 | - |
| *2 | ø2 |
| 3 | - |
| 4 | - |
| 5 | - |
| *6 | ø6 |
| 7 | - |
| 8 | - |
| 9 | - |
| 10 | ø4 PED |
| 11 | - |
| 12 | ø8 PED |
| 13 | - |
| 14 | - |
| 15 | - |
| 16 | - |

* Program 'Flash AUT'=Y

NC Dept of Transportation
 Division of Highways
 Final Drawing Date: 11/09/2022
 DecoSigned by: [Signature]
 ITS & Signals Unit

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-0933
 DESIGNED: March 2022
 SEALED: 10/27/2022
 REVISED:



Electrical Detail - Sheet 2 of 2

**Pedestrian Hybrid Beacon on
SR 1313 (Walnut Street)
at
Cary High School**

Division 5 Wake County Cary

PLAN DATE: March 2022 REVIEWED BY: PL Alexander

PREPARED BY: AM Encarnacion REVIEWED BY:

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

**DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED**

SEAL

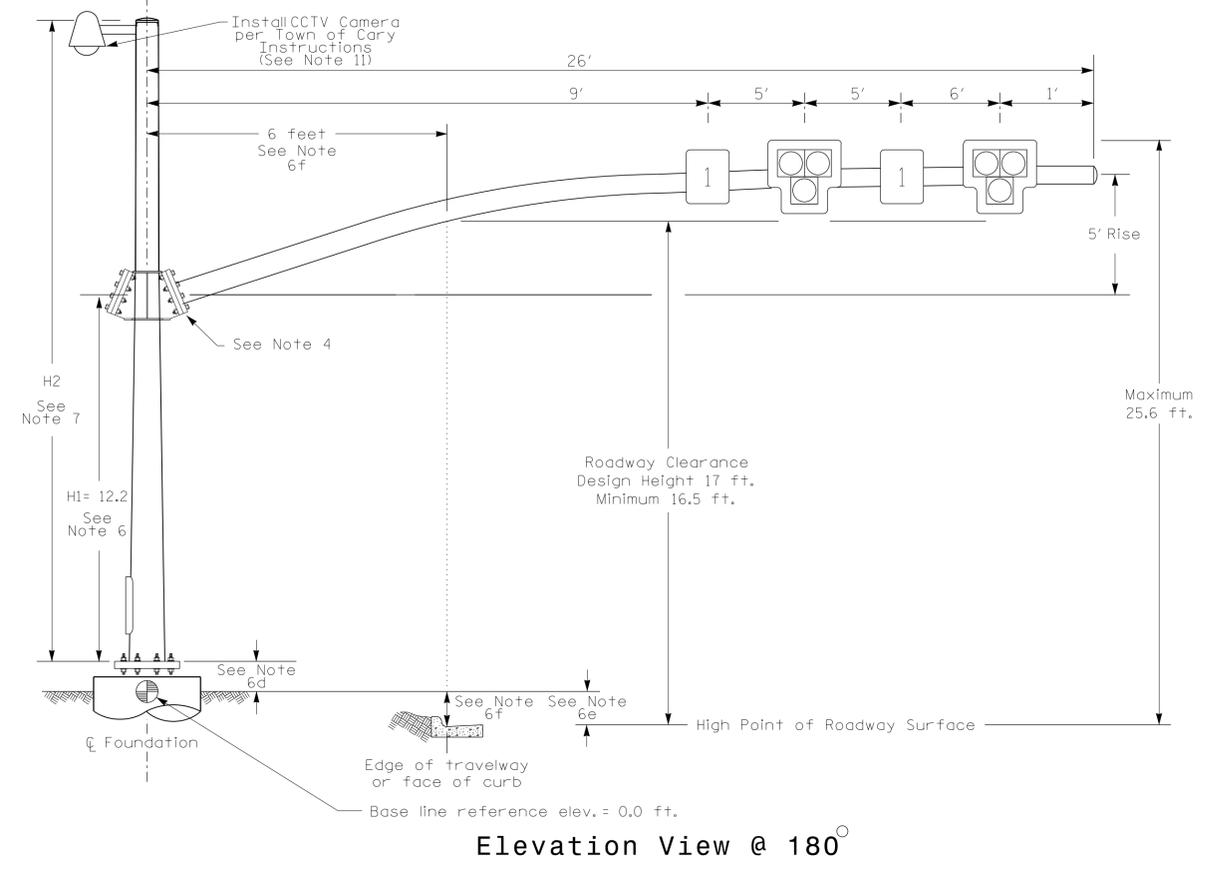
WILLIAM M. ENCARNACION
PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
044476

Approved by: [Signature] 10/27/2022
 Date: DATE

SIG. INVENTORY NO. 05-0933

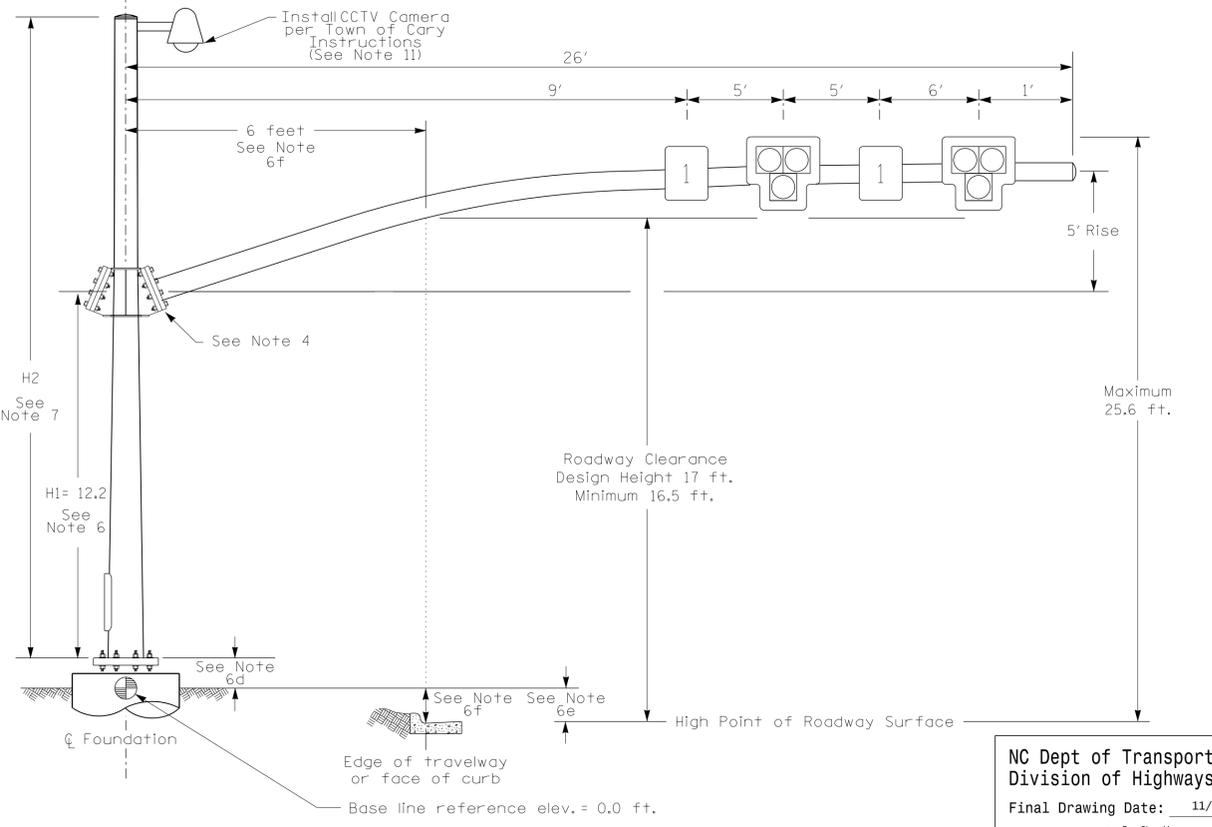
27-OCT-2022 14:59 O:\dot\Transportation\Projects\IE\Cur\100073537 TOC\Main\51-PHB Design\04-Detail\ver02\development\05-Des\gn_P\ons\03-Sheets\050933_sm.e_2022med.dgn STP14685 AT LUS4F1089

Design Loading for METAL POLE NO. 1, MAST ARM A



Elevation View @ 180°

Design Loading for METAL POLE NO. 1, MAST ARM B



Elevation View @ 0°

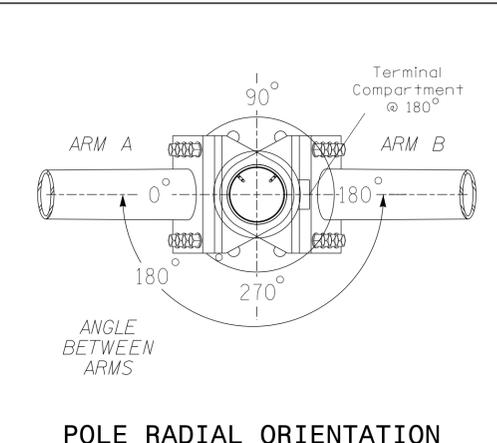
NC Dept of Transportation
 Division of Highways
 Final Drawing Date: 11/09/2022
 ITS & Signals Unit

SPECIAL NOTE

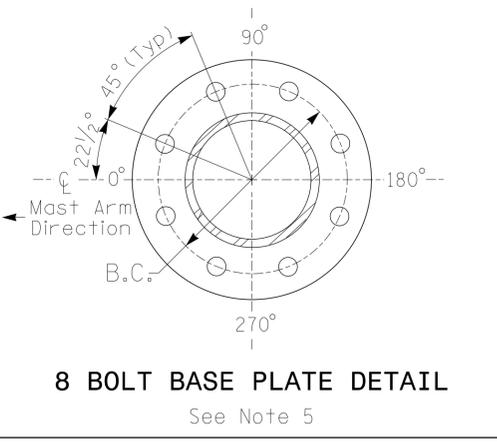
The contractor is responsible for verifying that the mast arm attachment height (H1) will provide the "Design Height" clearance from the roadway before submitting final shop drawings for approval. Verify elevation data below which was obtained by field measurement or from available project survey data.

Elevation Data for Mast Arm Attachment (H1)

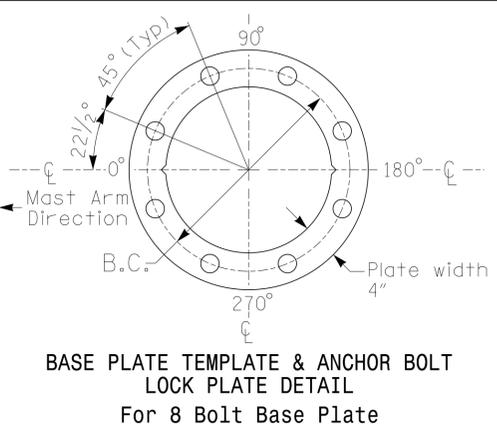
| Elevation Differences for: | Arm "A" | Arm "B" |
|---|----------|----------|
| Baseline reference point at Foundation @ ground level | 0.0 ft. | 0.0 ft. |
| Elevation difference at High point of roadway surface | -0.6 ft. | -0.6 ft. |
| Elevation difference at Edge of travelway or face of curb | -0.6 ft. | -0.6 ft. |



POLE RADIAL ORIENTATION



8 BOLT BASE PLATE DETAIL



BASE PLATE TEMPLATE & ANCHOR BOLT LOCK PLATE DETAIL

METAL POLE No. 1

MAST ARM LOADING SCHEDULE

| LOADING SYMBOL | DESCRIPTION | AREA | SIZE | WEIGHT |
|----------------|--|-----------|-------------------|--------|
| [Symbol] | RIGID MOUNTED SIGNAL HEAD 12"-3 SECTION-WITH BACKPLATE | 10.0 S.F. | 38.0" W X 38.0" L | 70 LBS |
| [Symbol] | SIGN RIGID MOUNTED | 5.0 S.F. | 24.0" W X 30.0" L | 11 LBS |
| [Symbol] | CCTV CAMERA | 0.7 S.F. | 9.3" W X 10.6" L | 15 LBS |

NOTES

DESIGN REFERENCE MATERIAL

- Design the traffic signal structure and foundation in accordance with:
 - The 6th Edition 2013 AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, including all of the latest interim revisions.
 - The 2018 NCDOT "Standard Specifications for Roads and Structures." The latest addenda to the specifications can be found in the traffic signal project special provisions.
 - The 2018 NCDOT Roadway Standard Drawings.
 - The traffic signal project plans and special provisions.
 - The NCDOT "Metal Pole Standards" located at the following NCDOT website: <https://connect.ncdot.gov/resources/safety/Pages/ITS-Design-Resources.aspx>

DESIGN REQUIREMENTS

- Design the traffic signal structure using the loading conditions shown in the elevation views. These are anticipated worst case "design loads" and may not represent the actual loads that will be applied at the time of the installation. The contractor should refer to the traffic signal plans for the actual loads that will be applied at the time of the installation.
- Design all signal supports using stress ratios that do not exceed 0.9.
- A clamp-type bolted mast arm-to-pole connection may be used instead of the welded ring stiffened box connection shown as long as the connection meets all of the design requirements. This requires staggering the connections. Use elevation data for each arm to determine appropriate connection points.
- Design base plate with 8 anchor bolt holes. Provide 2 inch x 60 inch anchor bolts.
- The mast arm attachment height (H1) shown is based on the following design assumptions:
 - Nominal vertical rise in mast arm is 5 feet as measured from the centerline of the arm base to the centerline of the free end of the arm.
 - Signal heads are rigidly mounted and vertically centered on the mast arm.
 - The roadway clearance height for design is as shown in the elevation views.
 - The top of the pole base plate is 0.75 feet above the ground elevation.
 - Refer to the Elevation Data Chart for the elevation differences between the proposed foundation ground level and the high point of the roadway.
 - Provide horizontal distance from the proposed centerline of the foundation to the edge of travelway. Refer to the Elevation Data Chart for elevation difference between the proposed foundation ground level and the edge of travelway. This information is necessary to ensure that the roadway clearance is maintained at the edge of the travelway and to aid in the camber design of the arm.
- The pole manufacturer will determine the total height (H2) of each pole using the greater of the following:
 - Mast arm attachment height (H1) plus 10 feet, or
 - H1 plus 1/2 of the total height of the mast arm attachment assembly plus 1 foot.
- If pole location adjustments are required, the contractor must gain approval from the Engineer as this may affect the mast arm lengths and arm attachment heights. The contractor may contact the Signal Design Section Senior Structural Engineer for assistance at (919) 814-5000.
- The contractor is responsible for verifying that the mast arm length shown will allow proper positioning of the signal heads over the roadway.
- The contractor is responsible for providing soil penetration testing data (SPT) to the pole manufacturer so site specific foundations can be designed.
- Provide a handhole on the metal pole at CCTV camera arm connection point for future cable installation use.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBEES #F-0326

NCDOT Wind Zone 4 (90 mph)

| | | | |
|-----------------------|---|--|---|
| | Prepared for the Offices of: Pedestrian Hybrid Beacon on SR 1313 (Walnut Street) at Cary High School | | |
| | Division 5 Wake County Cary | PLAN DATE: March 2022 PREPARED BY: AM Encarnacion | |
| SCALE 0 N/A N/A | REVISIONS | INIT. DATE | 10/27/2022 Anthony Encarnacion DATE SIG. INVENTORY NO. 05-0933 |

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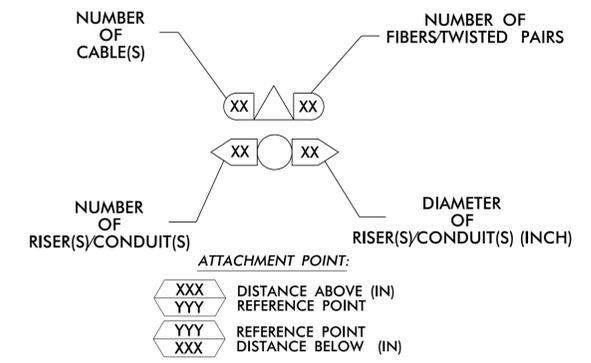
LEGEND

- FO— NEW FIBER OPTIC COMMUNICATIONS CABLE
- EXT— EXISTING COMMUNICATIONS CABLE
- REM— EXISTING COMMUNICATIONS CABLE TO BE REMOVED
- NEW AND EXISTING AERIAL GUY ASSEMBLY
- NEW CONDUIT
- EXISTING CONDUIT
- DD— NEW DIRECTIONAL DRILLED CONDUIT
- B&J— NEW BORED AND JACKED CONDUIT
- NEW WOOD POLE
- EXISTING WOOD POLE
- ⊠ NEW METAL POLE
- ⊠ EXISTING METAL POLE
- NEW STANDARD GUY ASSEMBLY
- EXISTING STANDARD GUY ASSEMBLY
- ↪ NEW SIDEWALK GUY ASSEMBLY
- ↪ EXISTING SIDEWALK GUY ASSEMBLY
- ⊠ NEW CONTROLLER AND CABINET
- ⊠ EXISTING CONTROLLER AND CABINET
- NEW STANDARD JUNCTION BOX
- EXISTING STANDARD JUNCTION BOX
- NEW OVER-SIZED OR SPECIAL-SIZED JUNCTION BOX
- EXISTING OVER-SIZED OR SPECIAL-SIZED JUNCTION BOX

- 05-XXXX NCDOT SIGNAL ID NUMBER
- GCTV-XX CCTV CAMERA ID NUMBER

CONSTRUCTION NOTE SYMBOLOGY KEY

- XX INDICATES NUMBER OF CABLES, LOOPS, ETC.
- XX INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
- XX INDICATES NUMBER OF RISER(S)/CONDUIT(S)
- XX INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)



- 1 INSTALL CATEGORY 6 CABLE
- 2 INSTALL LOW VOLTAGE POWER CABLE (24VAC)
- 3 INSTALL COMPOSITE CCTV CABLE
- 4 INSTALL SMFO CABLE
- 5 INSTALL COAXIAL ANTENNA CABLE
- 6 INSTALL FIBER-OPTIC DROP CABLE
- 7 INSTALL TRACER WIRE
- 8 INSTALL CONDUIT UNDERGROUND
- 9 INSTALL PVC CONDUIT
- 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT
- 11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
- 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING
- 13 INSTALL HEAT SHRINK TUBING RETROFIT KIT
- 14 INSTALL HIGH DENSITY POLYETHYLENE CONDUIT
- 15 DIRECTIONAL DRILL CONDUIT
- 16 BORE AND JACK CONDUIT
- 17 INSTALL CABLE(S) IN EXISTING CONDUIT
- 18 INSTALL CABLE(S) IN NEW CONDUIT
- 19 INSTALL CABLE(S) IN EXISTING RISER(S)
- 20 INSTALL CABLE(S) IN NEW RISER(S)
- 21 INSTALL CABLE(S) IN EXISTING CABINET ENTRANCE
- 22 INSTALL NEW CONDUIT INTO CABINET BASE (USE EXISTING CONDUIT STUBOUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO CABINET BASE (USE EXISTING CONDUIT STUBOUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO POLE MOUNTED CABINET
- 26 INSTALL DIGITAL VIDEO ENCODER
- 27 INSTALL NEW ETHERNET EDGE SWITCH IN CABINET
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPLICE ENCLOSURE
- 30 INSTALL AERIAL SPLICE ENCLOSURE
- 31 INSTALL TYPE 332 HUB CABINET
- 32 MODIFY EXISTING SPLICE ENCLOSURE OR INTERCONNECT CENTER

- 33 REMOVE EXISTING SPLICE / HUB / CCTV CABINET
- 34 INSTALL CABINET FOUNDATION
- 35 REMOVE EXISTING CABINET FOUNDATION
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL 50' CCTV WOOD POLE
- 38 INSTALL 16"x10" STANDARD SIZE JUNCTION BOX
- 39 INSTALL 36"x24" SPECIAL-SIZED JUNCTION BOX
- 40 INSTALL 30"x15" OVER-SIZED JUNCTION BOX
- 41 REMOVE EXISTING JUNCTION BOX
- 42 INSTALL WOOD POLE
- 43 REMOVE EXISTING WOOD POLE
- 44 INSTALL AERIAL GUY ASSEMBLY
- 45 INSTALL STANDARD GUY ASSEMBLY
- 46 INSTALL SIDEWALK GUY ASSEMBLY
- 47 INSTALL MESSENGER CABLE
- 48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE
- 49 REMOVE EXISTING COMMUNICATIONS CABLE
- 50 INSTALL SERVICE CONDUCTORS
- 51 INSTALL CABLE STORAGE GUIDE(S) [SNOW SHOE(S)] AND STORE 100 FEET OF EACH CABLE
- 52 INSTALL DELINEATOR MARKER
- 53 STORE 30 FEET OF COMMUNICATIONS CABLE (EACH CABLE)
- 54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE
- 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 56 LASH CABLE(S) TO NEW MESSENGER CABLE
- 57 MODIFY EXISTING ELECTRICAL SERVICE
- 58 INSTALL NEW ELECTRICAL SERVICE
- 59 INTERCEPT AND REROUTE EXISTING CONDUITS

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NC Dept of Transportation
Division of Highways
Final Drawing Date: 11/09/2022
ITS & Signals Unit

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326



Prepared for the Offices of:
Signal Communication Plan
Construction Notes
Division 5 Wake County Cary
PLAN DATE: March 2022 REVIEWED BY: BJ Slocum
PREPARED BY: AM Encarnacion REVIEWED BY:

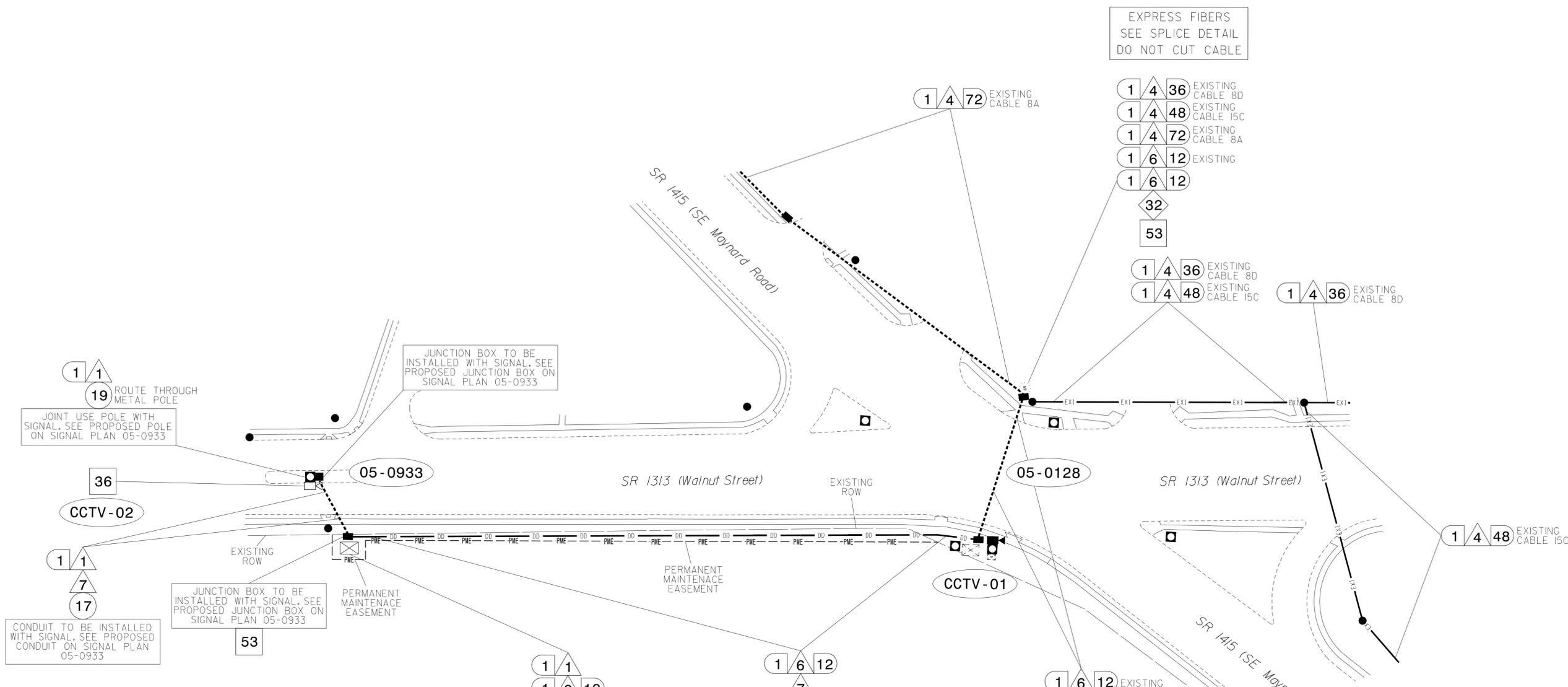
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SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 044476
ANTHONY W. ENCARNACION

10/27/2022
DATE

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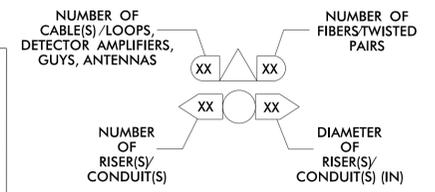
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- NOTES:**
- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY TRAFFIC MANAGEMENT CENTER AT (919) 380-2105 TO ARRANGE FOR THE TOWN TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE CITY TRAFFIC MANAGEMENT CENTER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
 - CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENT FOR COMPARISON TO SUPPLIED SPLICE DETAILS. IF DISCREPANCIES EXIST, CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED WITH RESPLICING. PROVIDE AS-BUILT PLANS TO THE ENGINEER IF FINAL SPLICE ARRANGEMENT DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
 - SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX / CABINET ENTRANCES.

NC Dept of Transportation
Division of Highways
Final Drawing Date: 11/09/2022
DocuSigned by:
PL Alexander
ITS & Signals Unit
1082402744494

ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN)
 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)
CONSTRUCTION NOTE SYMBOLOLOGY KEY



| | | | | | | | | | | | |
|----|---|----|---|----|---|----|---|----|--|----|---|
| 1 | INSTALL CATEGORY 6 CABLE | 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE) | 32 | MODIFY EXISTING SPLICE ENCLOSURE OR INTERCONNECT CENTER | 43 | REMOVE EXISTING WOOD POLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER CABLE |
| 2 | INSTALL LOW VOLTAGE POWER CABLE (24VAC) | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING | 23 | INSTALL NEW RISER INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE) | 33 | REMOVE EXISTING SPLICE / HUB / CCTV CABINET | 44 | INSTALL AERIAL GUY ASSEMBLY | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE |
| 3 | INSTALL COMPOSITE CCTV CABLE | 13 | INSTALL HEAT SHRINK TUBING KIT | 24 | INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET | 34 | INSTALL CABINET FOUNDATION | 45 | INSTALL STANDARD GUY ASSEMBLY | 57 | MODIFY EXISTING ELECTRICAL SERVICE |
| 4 | INSTALL SMFO CABLE | 14 | INSTALL HIGH DENSITY POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO POLE MOUNTED CABINET | 35 | REMOVE EXISTING CABINET FOUNDATION | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 58 | INSTALL NEW ELECTRICAL SERVICE |
| 5 | INSTALL COAXIAL ANTENNA CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL DIGITAL VIDEO ENCODER | 36 | INSTALL CCTV CAMERA ASSEMBLY | 47 | INSTALL MESSENGER CABLE | 59 | INTERCEPT AND REROUTE EXISTING CONDUITS |
| 6 | INSTALL FIBER-OPTIC DROP CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW ETHERNET EDGE SWITCH IN CABINET | 37 | INSTALL 50' CCTV WOOD POLE | 48 | REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE | | |
| 7 | INSTALL TRACER WIRE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT | 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET | 38 | INSTALL 16"x10" STANDARD SIZE JUNCTION BOX | 49 | REMOVE EXISTING COMMUNICATIONS CABLE | | |
| 8 | INSTALL CONDUIT UNDERGROUND | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 39 | INSTALL 36"x24" SPECIAL-SIZED JUNCTION BOX | 50 | INSTALL SERVICE CONDUCTORS | | |
| 9 | INSTALL PVC CONDUIT | 19 | INSTALL CABLE(S) IN EXISTING RISER(S) | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40 | INSTALL 30"x15" OVER-SIZED JUNCTION BOX | 51 | INSTALL CABLE STORAGE GUIDE(S) (SNOW SHOE(S)) AND STORE 100 FEET OF EACH CABLE | | |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 20 | INSTALL CABLE(S) IN NEW RISER(S) | 31 | INSTALL TYPE 332 HUB CABINET | 41 | REMOVE EXISTING JUNCTION BOX | 52 | INSTALL DELINEATOR MARKER | | |
| | | 21 | INSTALL CABLE(S) IN EXISTING CABINET ENTRANCE | | | 42 | INSTALL WOOD POLE | 53 | STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE) | | |
| | | | | | | | | 54 | LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE | | |

ATKINS 1616 EAST WILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888 NCBEES #F-0326

Signal Communication Plan for
SR 1313 (Walnut Street)
at Gary High School

Division 5 Wake County Cary

PLAN DATE: March 2022 REVIEWED BY: BJ Slocum
PREPARED BY: AM Encarnacion REVIEWED BY: PL Alexander

SCALE: 0 50
1"=50'

REVISIONS: INIT. DATE

10/27/2022

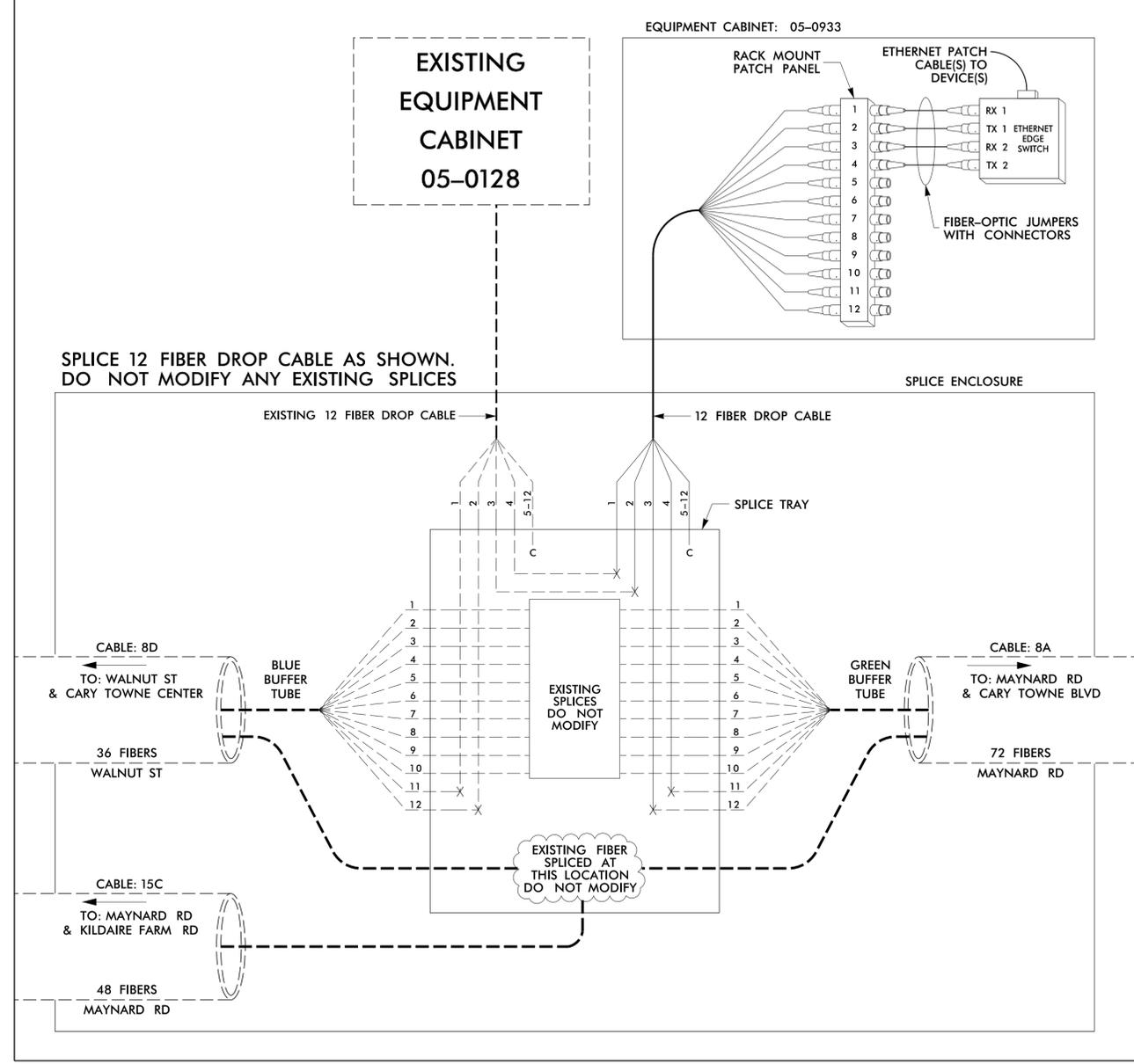
Seal: PL Alexander, Professional Engineer, State of North Carolina, License No. 044476

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ST-1281-089

**EXISTING SPLICE ENCLOSURE
LOCATED AT INTERSECTION OF
WALNUT STREET AND MAYNARD ROAD FOR SIG INV# 05-0933
WALNUT STREET AT CARY HIGH SCHOOL**



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LEGEND

| | | |
|------------------------------------|------------------------------------|---|
| COLOR CODE TIA/EIA 598-B | X = FUSION SPLICE INDIVIDUAL FIBER | |
| (1) BLUE (7) RED | C = CAP AND SEAL | |
| (2) ORANGE (8) BLACK | EXPRESS | EXPRESS ENTIRE BUFFER TUBE / FIBERS THROUGH WITHOUT CUTTING |
| (3) GREEN (9) YELLOW | BUFFER SPLICE | SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR |
| (4) BROWN (10) VIOLET | EXISTING | EXISTING BUFFER TUBE / FIBERS DO NOT MODIFY EXISTING SPLICES OR EXPRESSED FIBERS. |
| (5) SLATE (11) ROSE | | |
| (6) WHITE (12) AQUA | | |

NOTES

- UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY
- UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE ENCLOSURE
- EDGE SWITCH CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS.

NC Dept of Transportation
Division of Highways
Final Drawing Date: 11/09/2022
DocuSigned by:
ITS & Signals Unit

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

| | | | |
|---|------------------------|--|------|
| Prepared for the Offices of:  | | Splicing Details for SR 1313 (Walnut Street) at Cary High School | |
| Division 5 | Wake County | Cary | |
| PLAN DATE: March 2022 | REVIEWED BY: BJ Slocum | | |
| PREPARED BY: AM Encarnacion | REVIEWED BY: | | |
| SCALE | REVISIONS | INIT. | DATE |
| N/A | | | |

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



Drawn by: Anthony Encarnacion 10/27/2022
DATE
CADD Filename: Splice Diagram.dgn