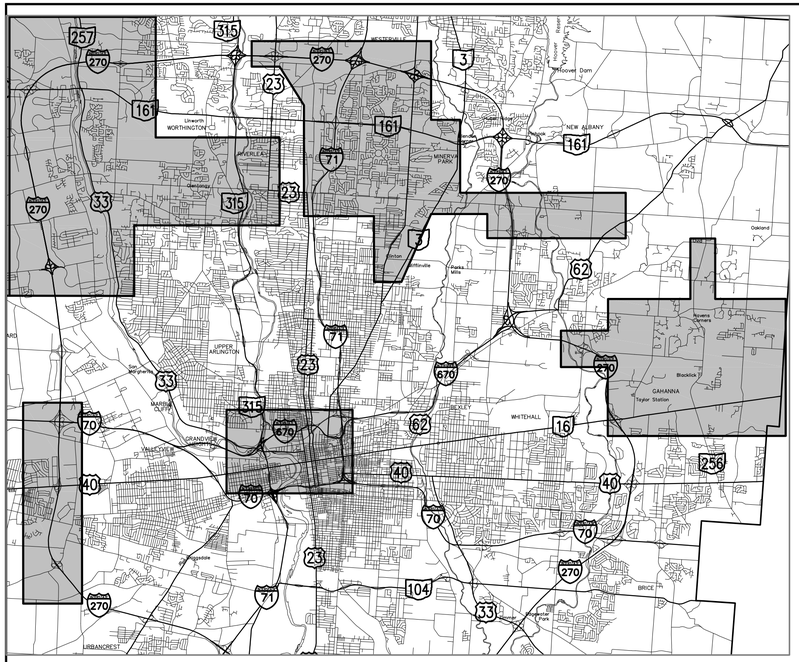
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B

FRA-COLUMBUS TRAFFIC SIGNAL SYSTEM-PHASE B

VOLUME 3 OF 3



VOL. 1 – INTERSECTIONS: SHEETS 1 TO 370
VOL. 2 – INTERSECTIONS AND INTERCONNECT: SHEETS 371 TO 719
VOL. 3 – COMMUNICATIONS: SHEETS 720 TO 1107

INDEX OF VOLUME 3 SHEETS

TITLE SHEET 720
COMMUNICATION LAYOUT – METRO AREA 721
COMMUNICATION SHEETS – DOWNTOWN 722
LAYER 2 COMMUNICATIONS NETWORK 723-756
CITYNET/HYLAND NETWORK LAYOUT 757
COMMUNICATION NOTES 758
D.O.T. TYPICAL FIBER SPLICING DIAGRAMS 759
INTERSECTION COMMUNICATION DIAGRAMS 760-1072
REPEATERS AND MISC. SPLICES 1073-1079
COMMUNICATION NODE DIAGRAMS 1080-1107

PROJECT DESCRIPTION

THE PURPOSE OF THE CTSS PHASE PROJECTS IS TO MIGRATE THE COLUMBUS TRAFFIC SIGNAL SYSTEM TO AN OPEN ARCHITECTURE THAT CAN SERVE CENTRAL OHIO STAKEHOLDERS WITH SYSTEM CONNECTIVITY AND INTEROPERABILITY. PHASE B WILL INSTALL NEW HEAD END SOFTWARE. 318 SIGNALIZED INTERSECTIONS, 19 NEW CCTV, AND 19 EXISTING CCTV WILL BE CONNECTED TO THE SOFTWARE THROUGH A COMMUNICATIONS NETWORK INSTALLED IN PHASE A. CONNECTIONS WILL BE MADE VIA A FIBER OPTIC AND WIRELESS ETHERNET NETWORK.

2010 ODOT SPECIFICIATIONS

THE SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED SHALL GOVERN ANY ITEMS THAT REFERENCE THE 2010 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

CITY OF COLUMBUS APPROVALS

CITY OF COLUMBUS SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

HNTB
330 West Spring Street, Suite 310
Columbus, Ohio 43215

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

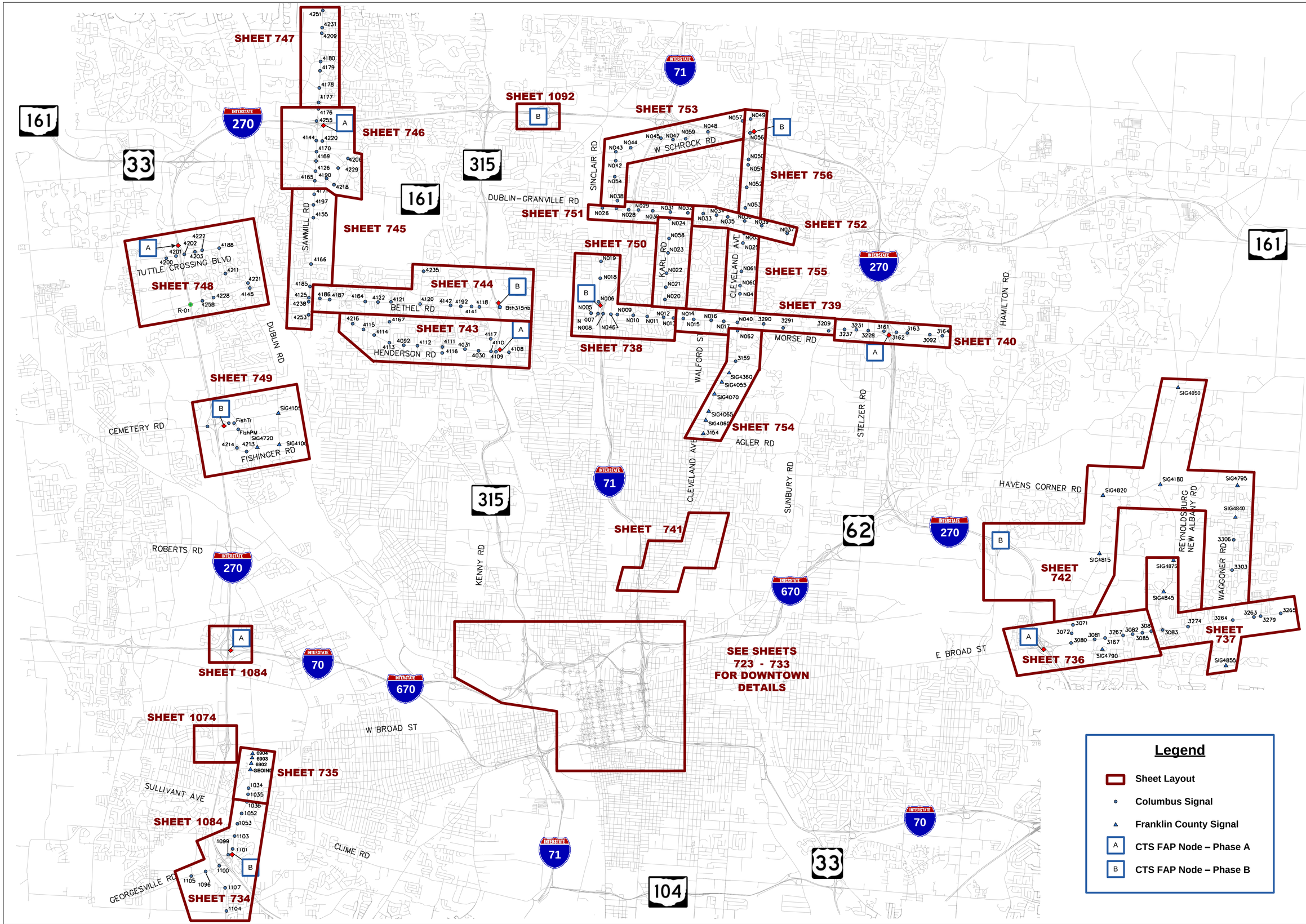
PID NUMBER 13034

TITLE SHEET VOLUME 3 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

720
1107

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2762 DR. E

COMMUNICATIONS SHEET LAYOUT
COLUMBUS METRO AREA

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

PID NUMBER 13034
2762 DR. E

COMMUNICATIONS SHEET LAYOUT
DOWNTOWN COLUMBUS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

722
1107

SHEET 724
SHEET 725
SHEET 726
SHEET 727
SHEET 728
SHEET 729
SHEET 730
SHEET 731
SHEET 732
SHEET 733
SHEET 723

Franklin Co Engineer
970 Dublin Rd

TMC

Legend

- Sheet Layout
- Columbus Signal
- Franklin County Signal
- A — CTS FAP Node – Phase A
- B — CTS FAP Node – Phase B

PID NUMBER 13034
2762 DR. E

COMMUNICATIONS SHEET LAYOUT
DOWNTOWN COLUMBUS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

722A
1107

Franklin Co Engineer
970 Dublin Rd

TMC

SIGNAL GROUP PRIORITY

VALUES INDICATE PRIORITY OF WHICH SIGNAL GROUPS ARE TO BE BROUGHT ONLINE WITH CENTRACS CSS

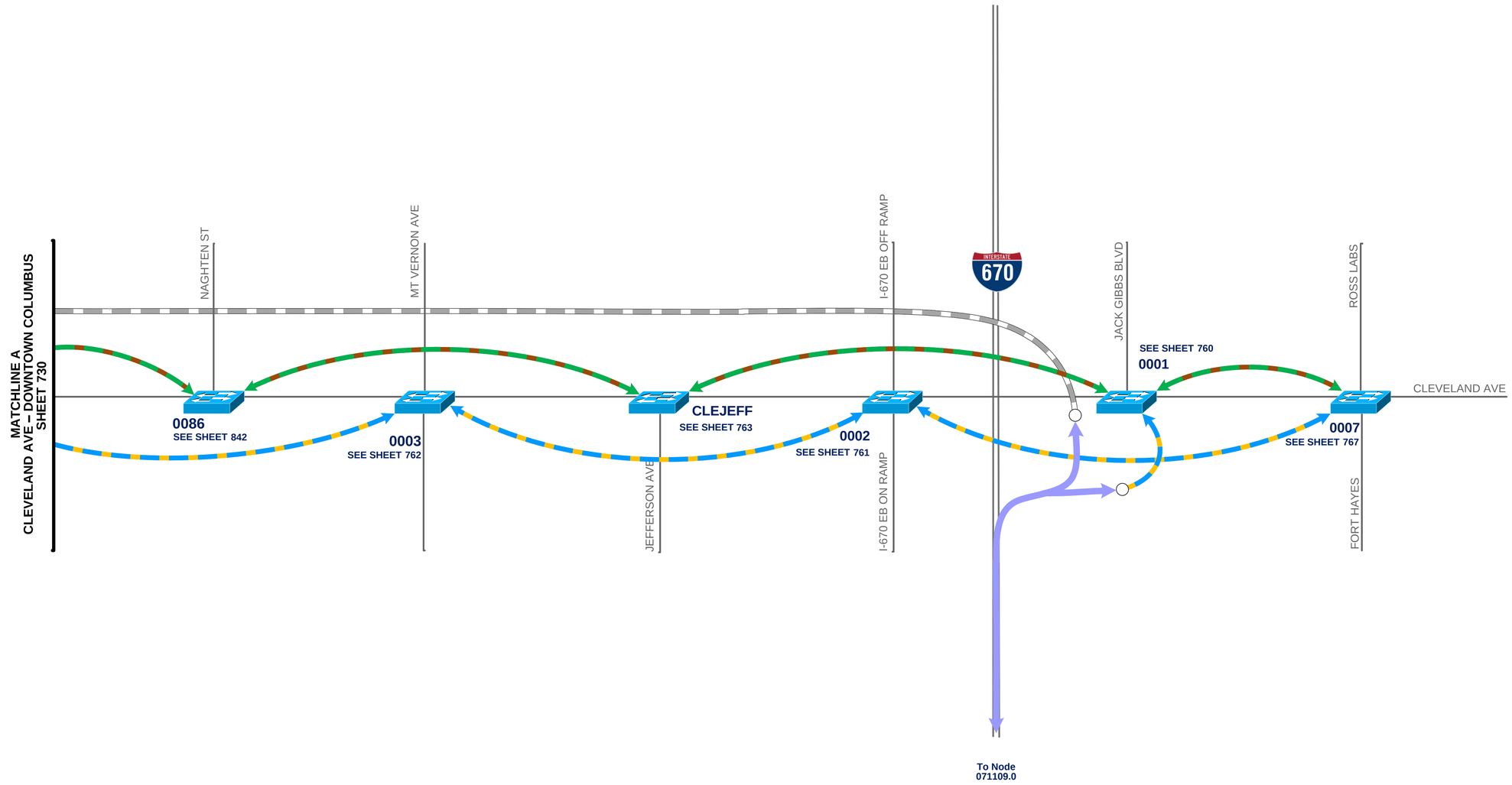
ALL SIGNALS WITHIN RESPECTIVE GROUP ARE TO BE BROUGHT ONLINE SIMULTANEOUSLY

GROUPS 4 & 5 ARE TO BE BROUGHT ONLINE DURING CONSECTUTIVE DAYS

* SIGNALS INSTALLED AS PART OF PHASE 2C PROJECT TO BE BROUGHT ONLINE WITH GROUP 5 SIGNALS

1 FIRST
2
3
4
5
6
7
8 LAST

DUBLIN RD
SCIOTO RIVER
OLENTANGY RIVER
SOUDER AVE
US33/DUBLIN TO I-670 W
I-670 E TO US33/DUBLIN
SPRING ST
W BROAD ST
SCIOTO
PARK ST
N HIGH ST
VINE ST
NATIONWIDE BLVD
MIEL AVE
MARCONI BLVD
CIVIC CENTER DR
FRONT ST
S HIGH ST
LUDLOW ST
2ND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
CHESTNUT ST
STATE ST
GAY ST
LONG ST
CLEVELAND AVE
GRANT AVE
WASHINGTON AVE
OAK ST
TOWN ST
RICH ST
E MAIN ST
PARSONS AVE
MOUND ST
FULTON ST
LIVINGSTON AVE



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
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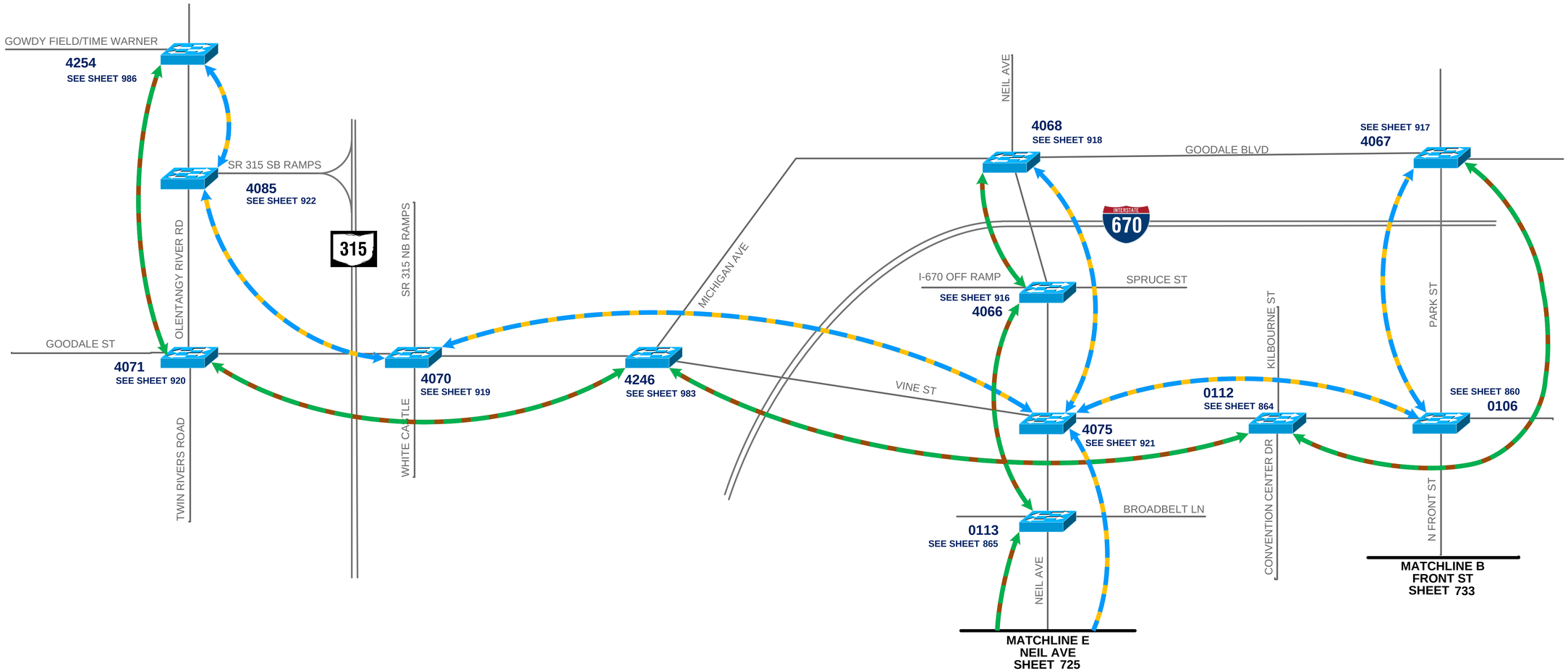
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

DOWNTOWN COLUMBUS CLEVELAND AVENUE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



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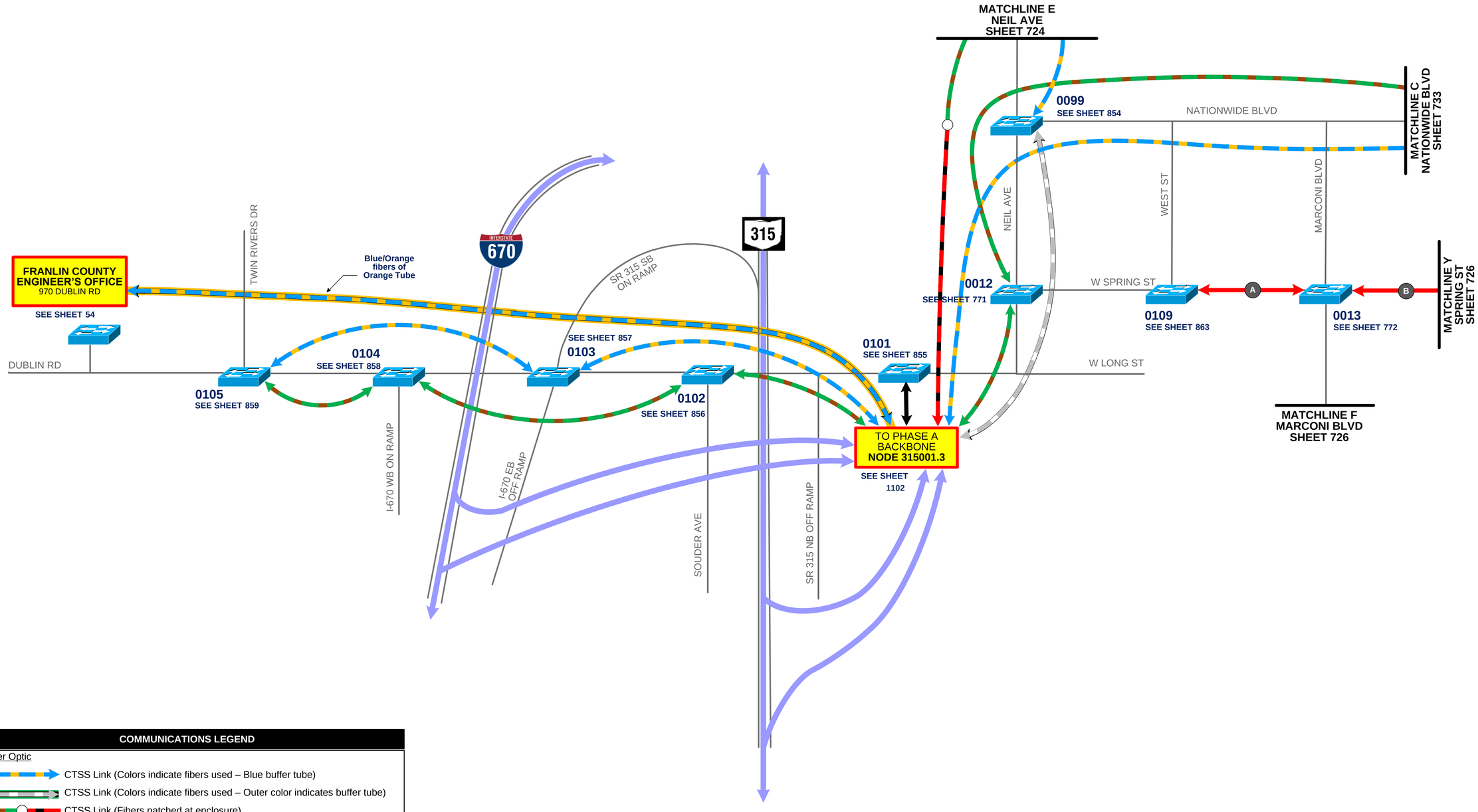
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DOWNTOWN COLUMBUS – GOODALE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



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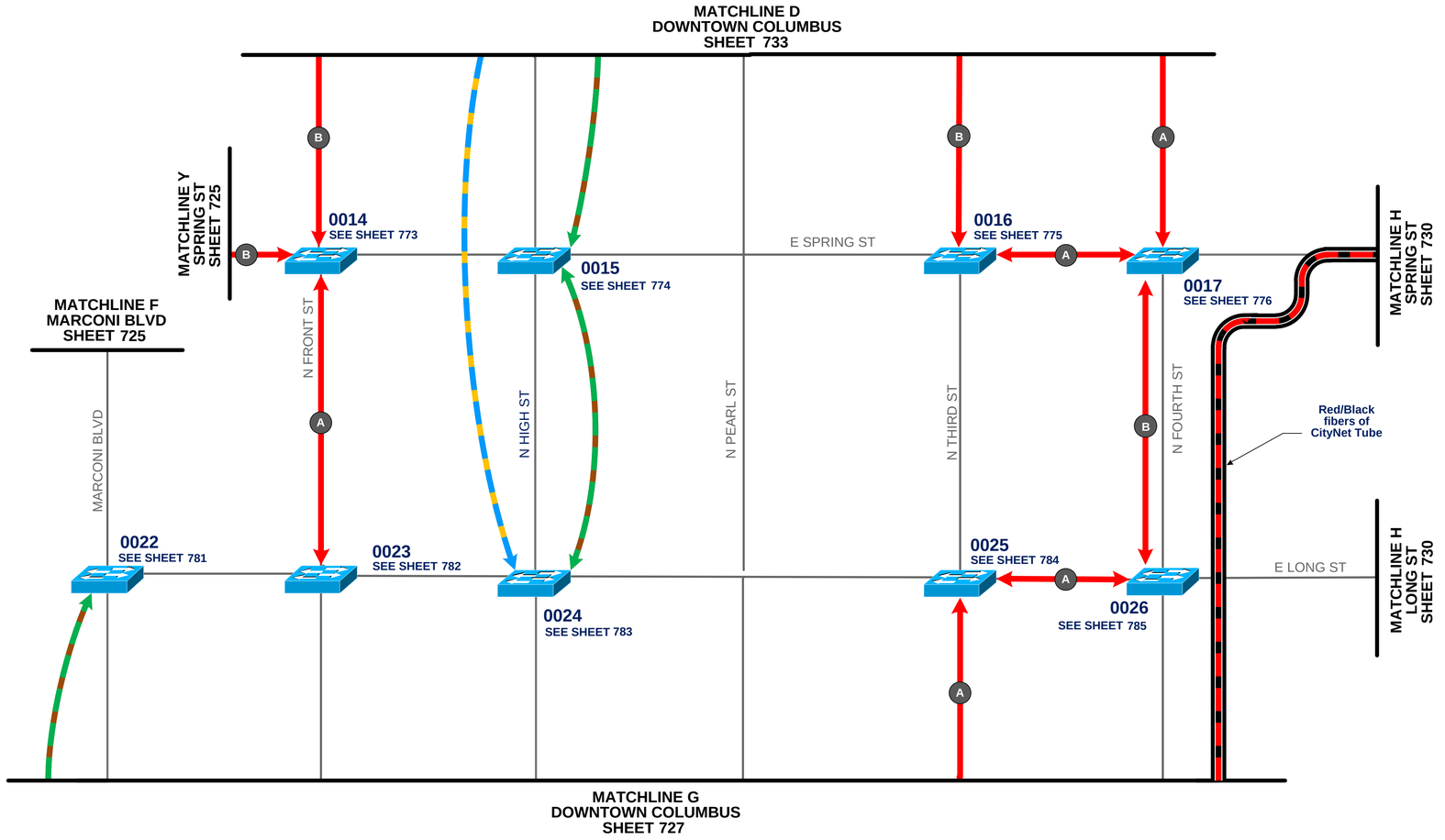
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NOT TO SCALE

PID NUMBER 13034

DOWNTOWN COLUMBUS - DUBLIN ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

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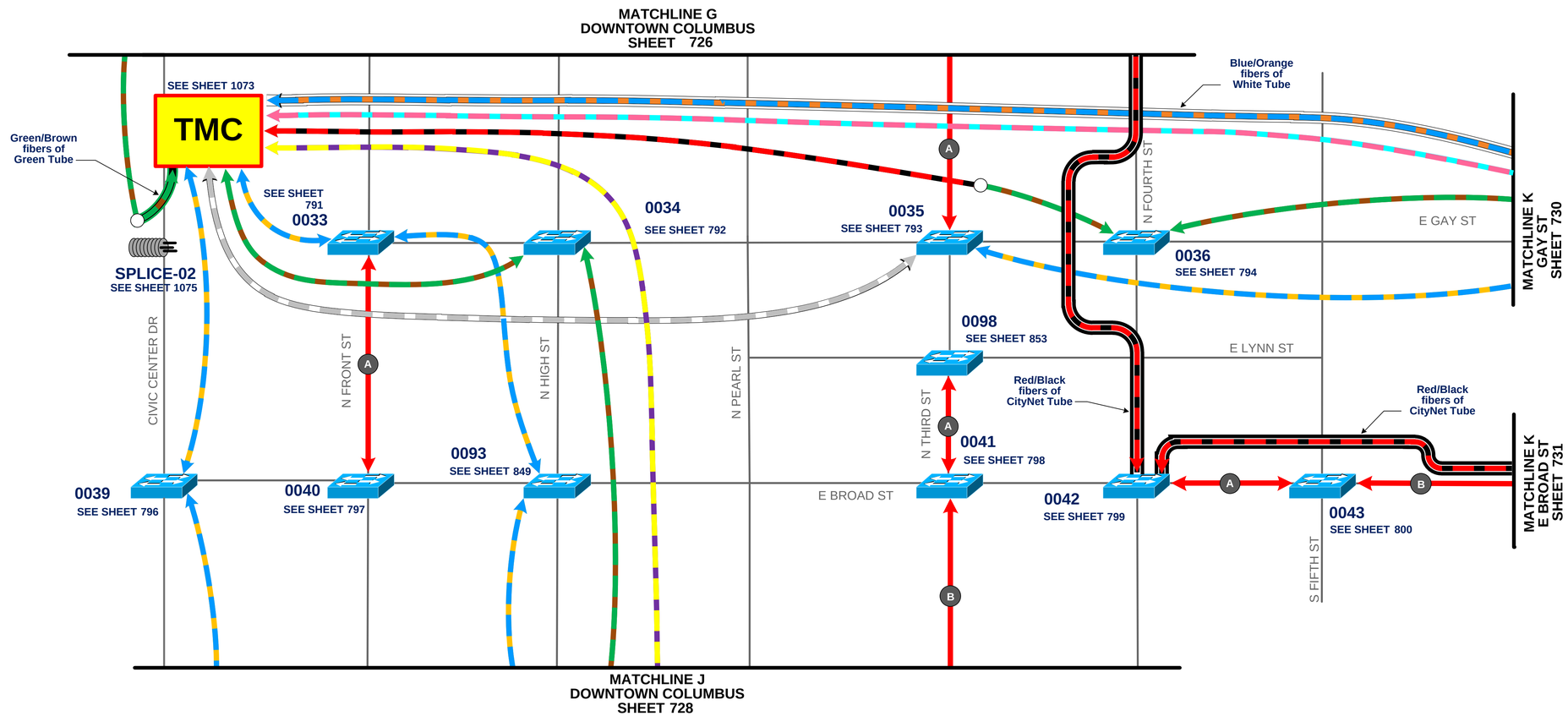
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DOWNTOWN COLUMBUS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



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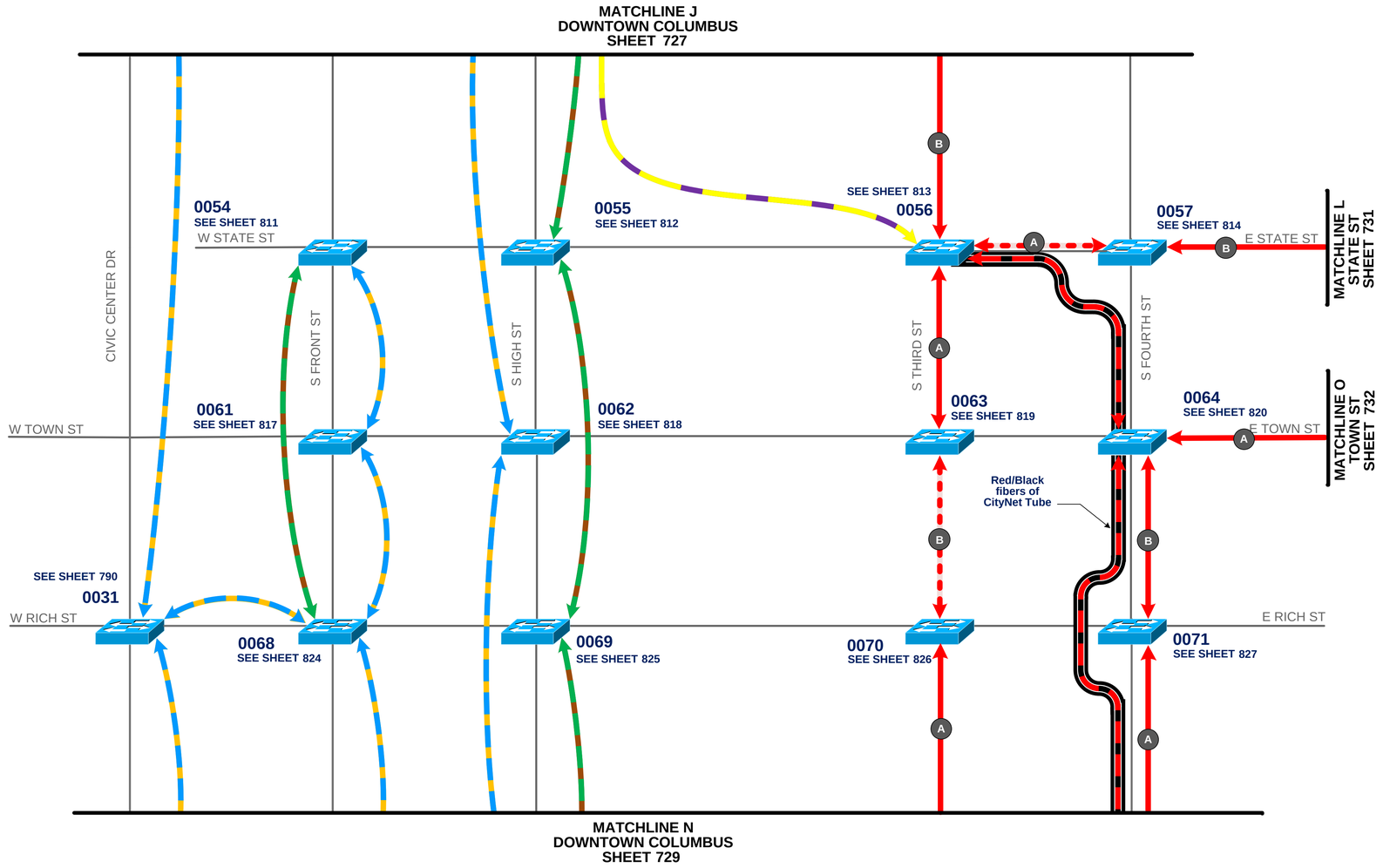
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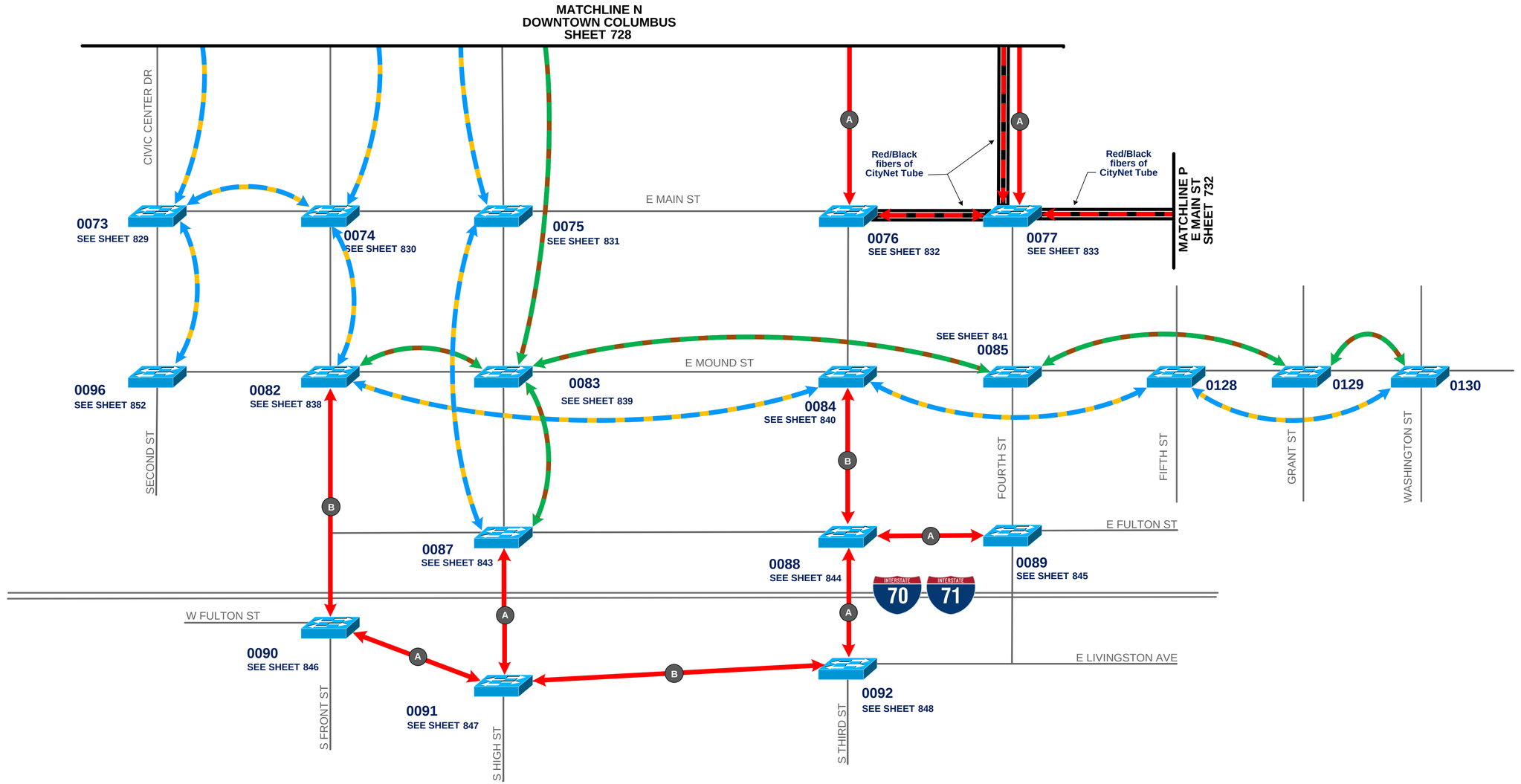
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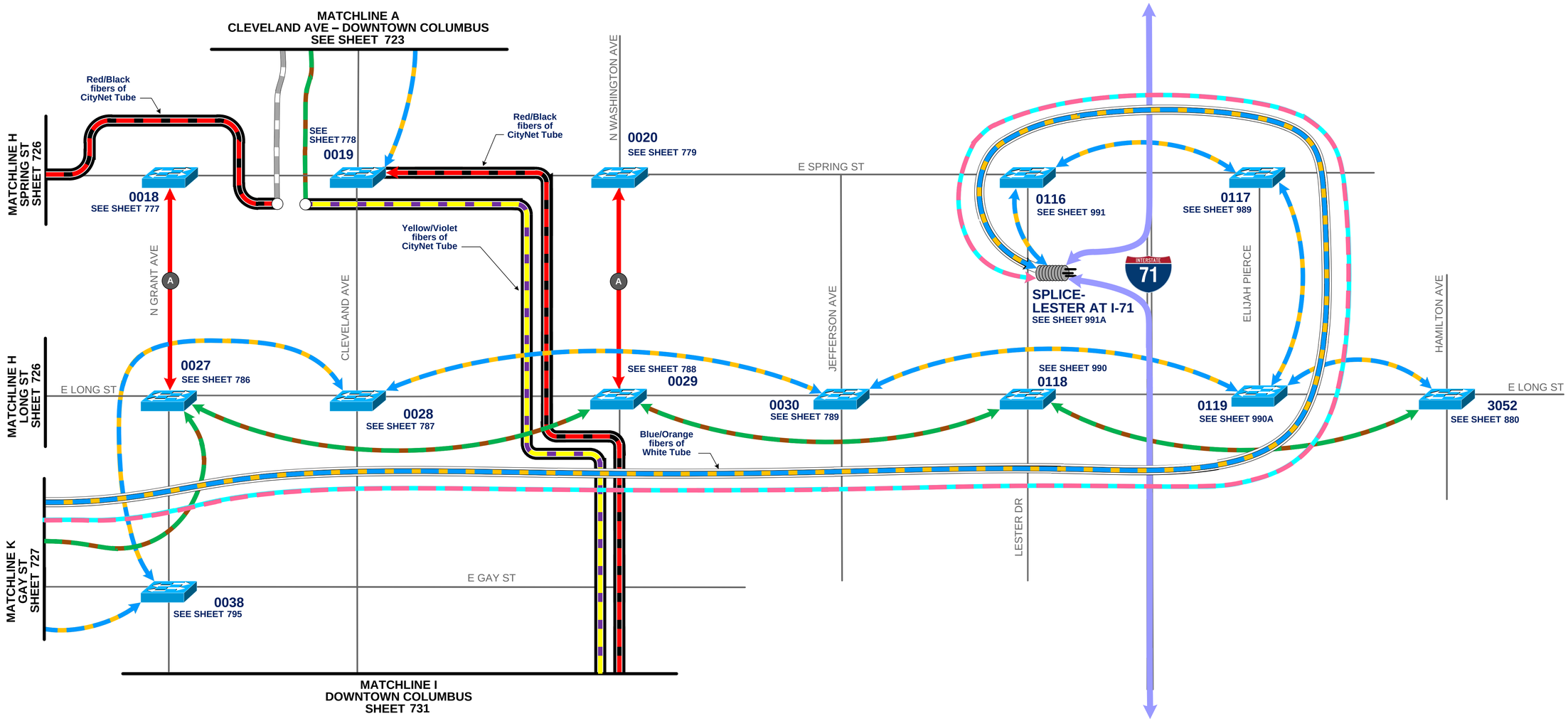
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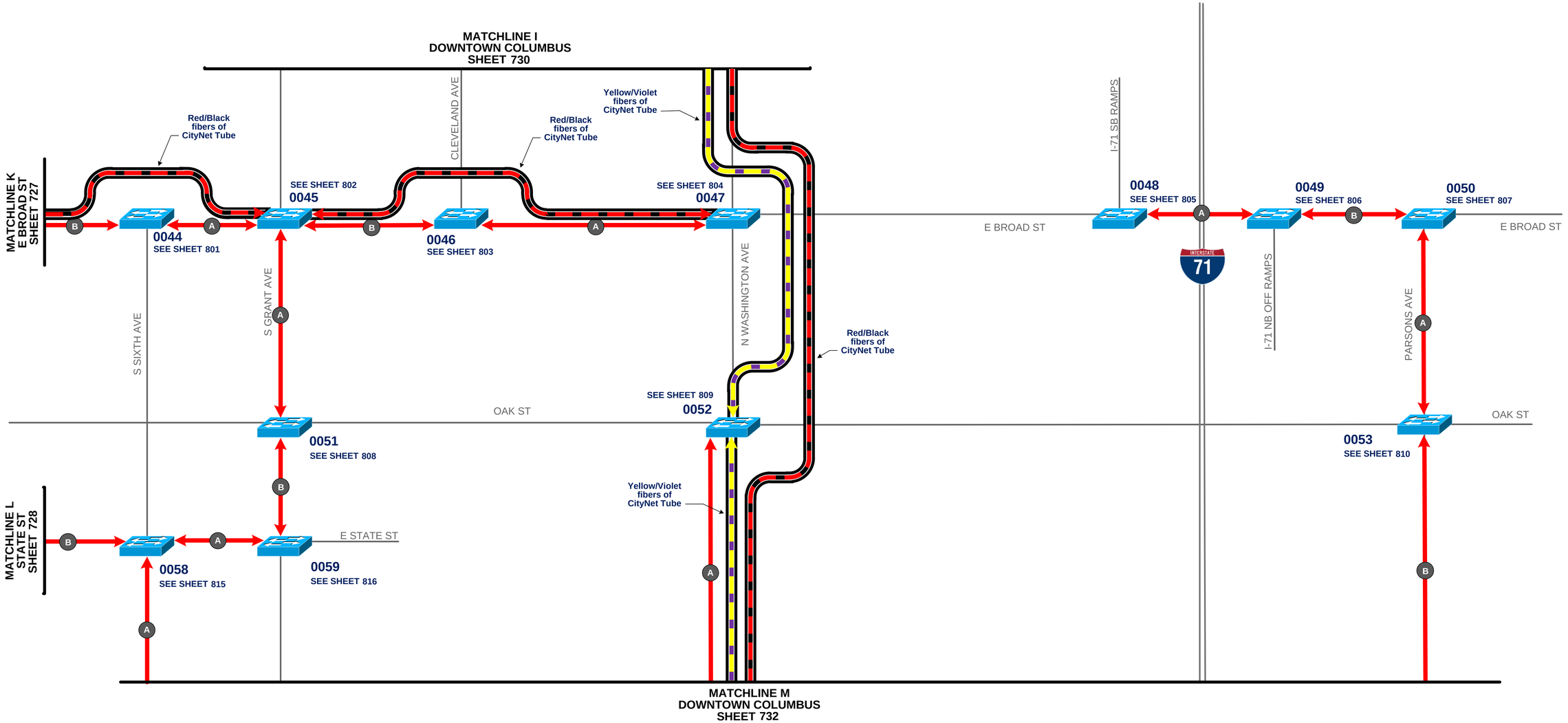
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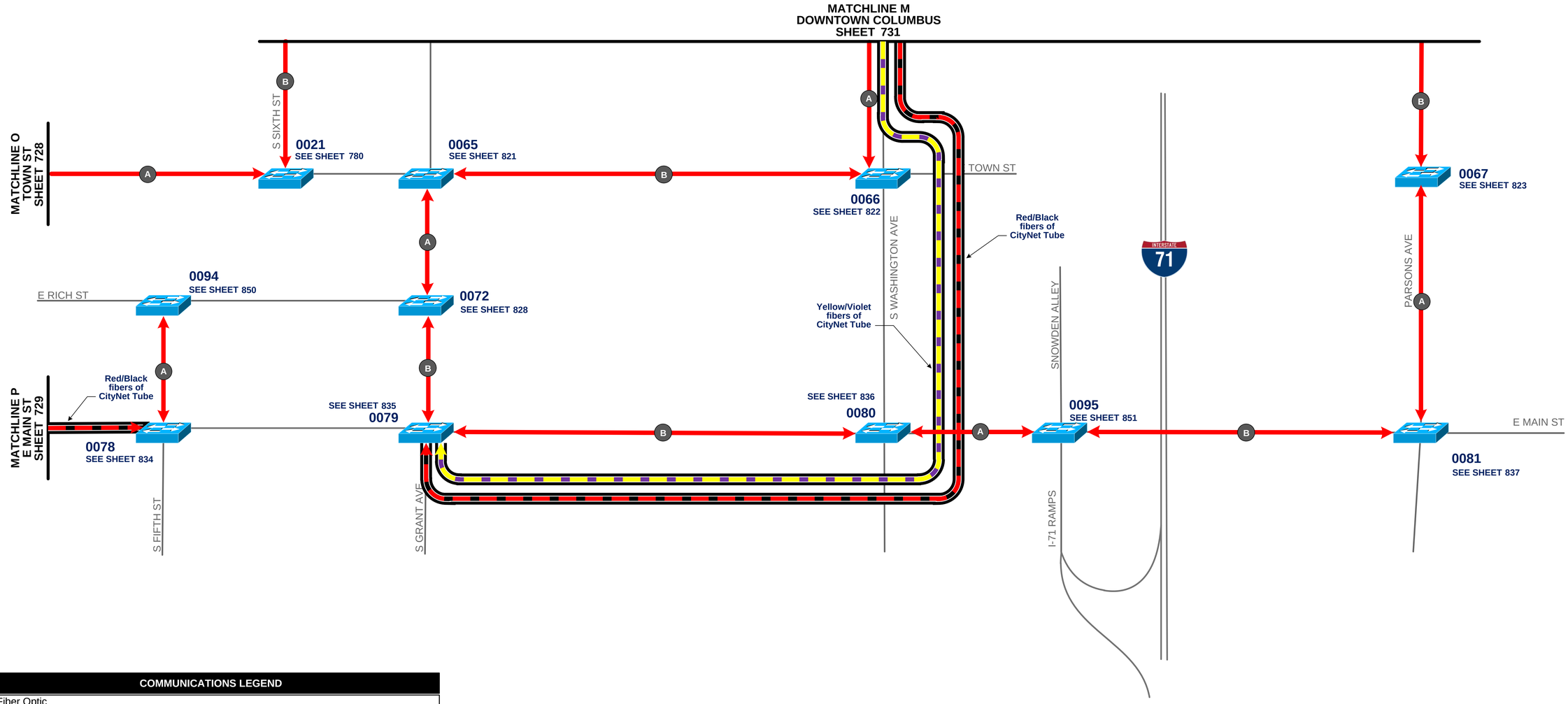
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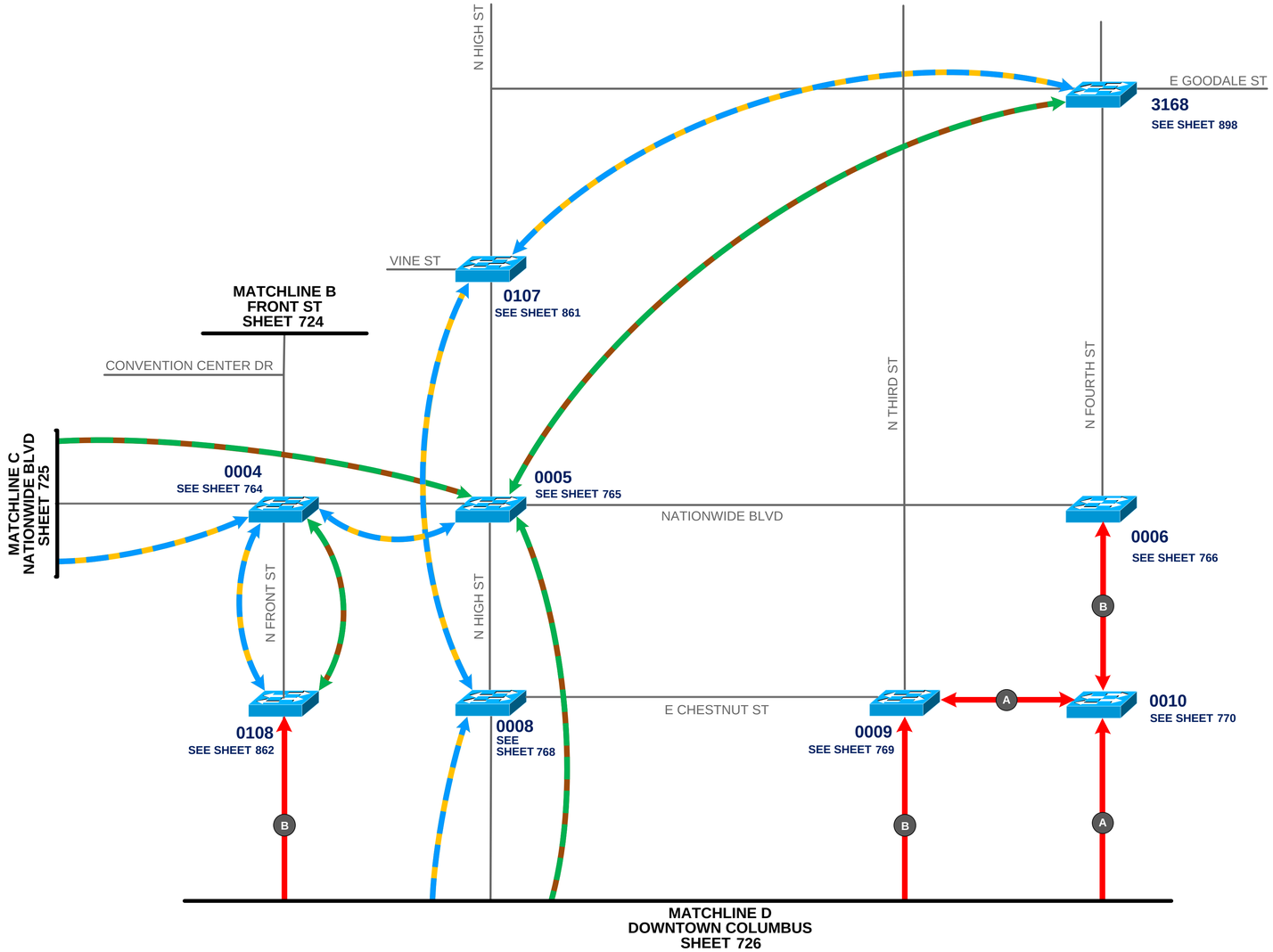
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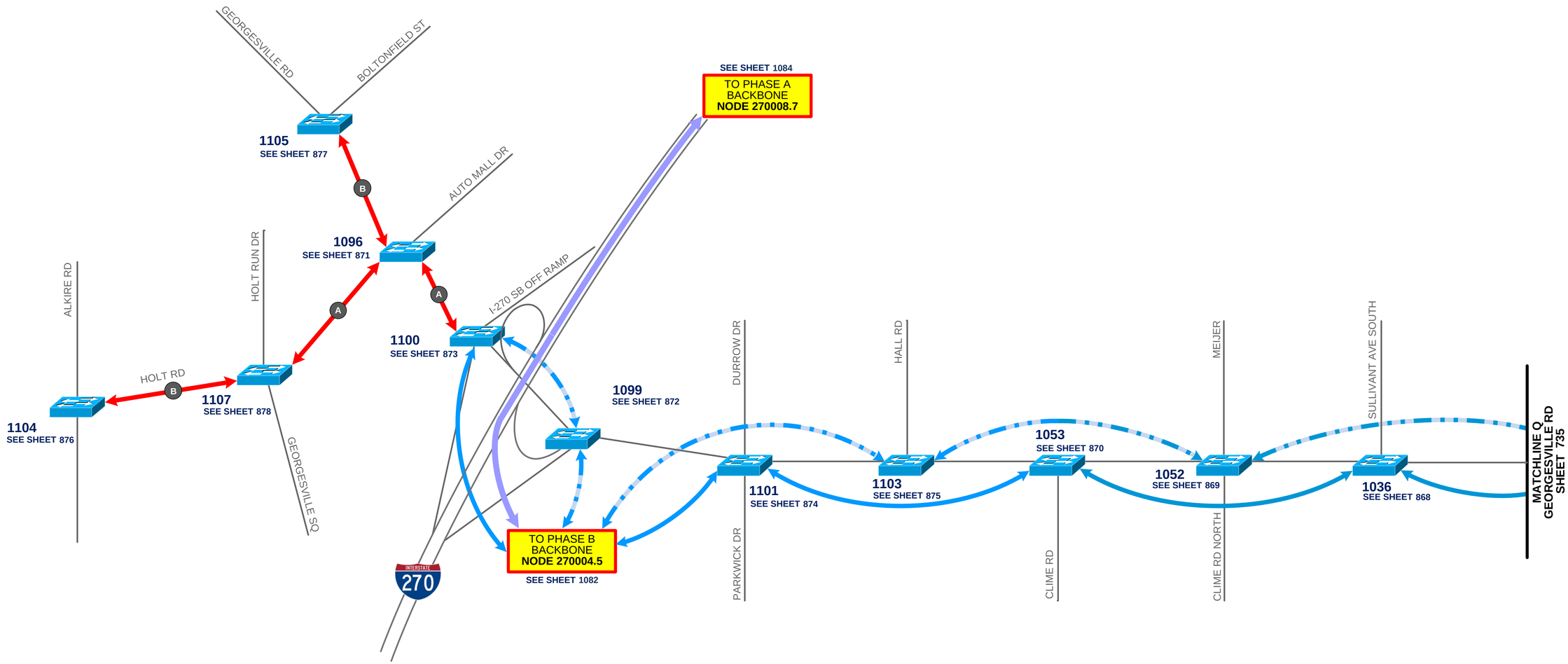
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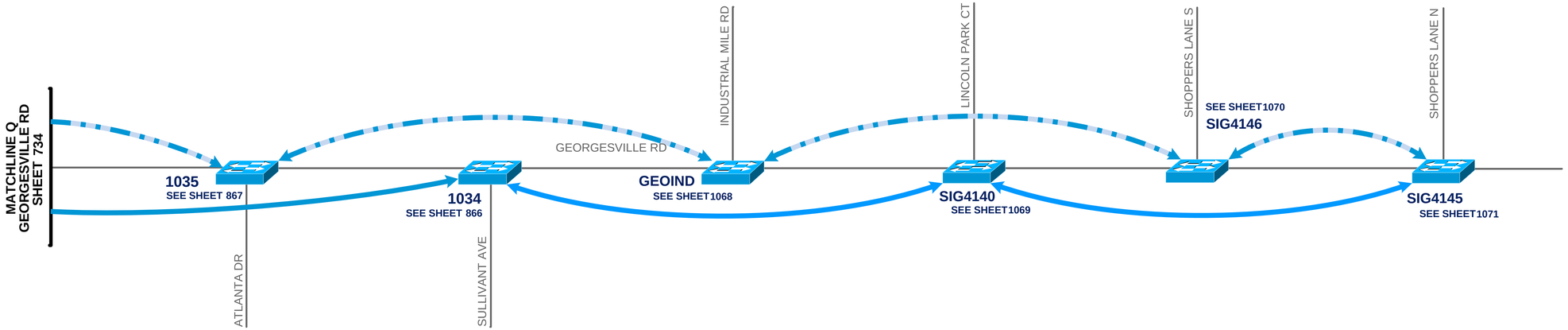
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NOT TO SCALE

PID NUMBER 13034

GEORGESVILLE ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



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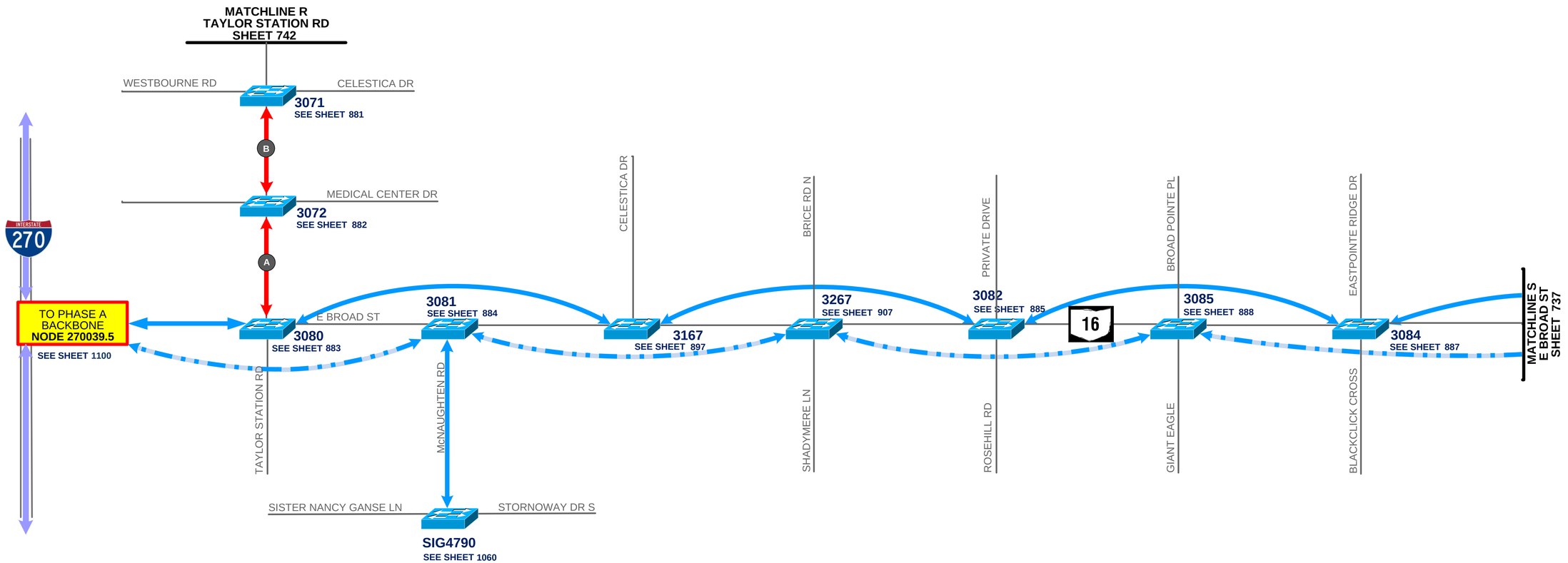
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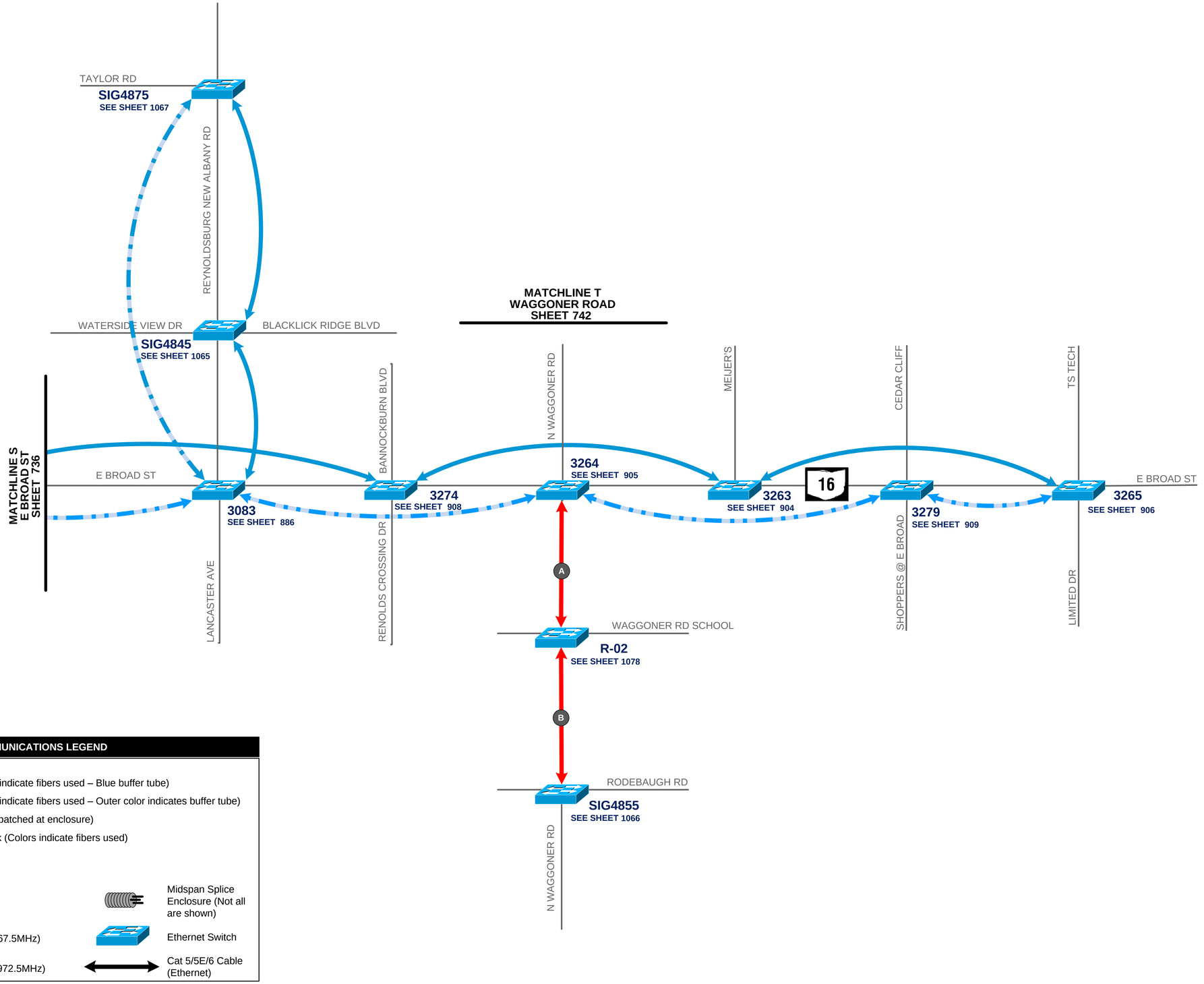
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EAST BROAD STREET CORRIDOR

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(CTSS) PHASE B - AS BUILT (DRAFT)



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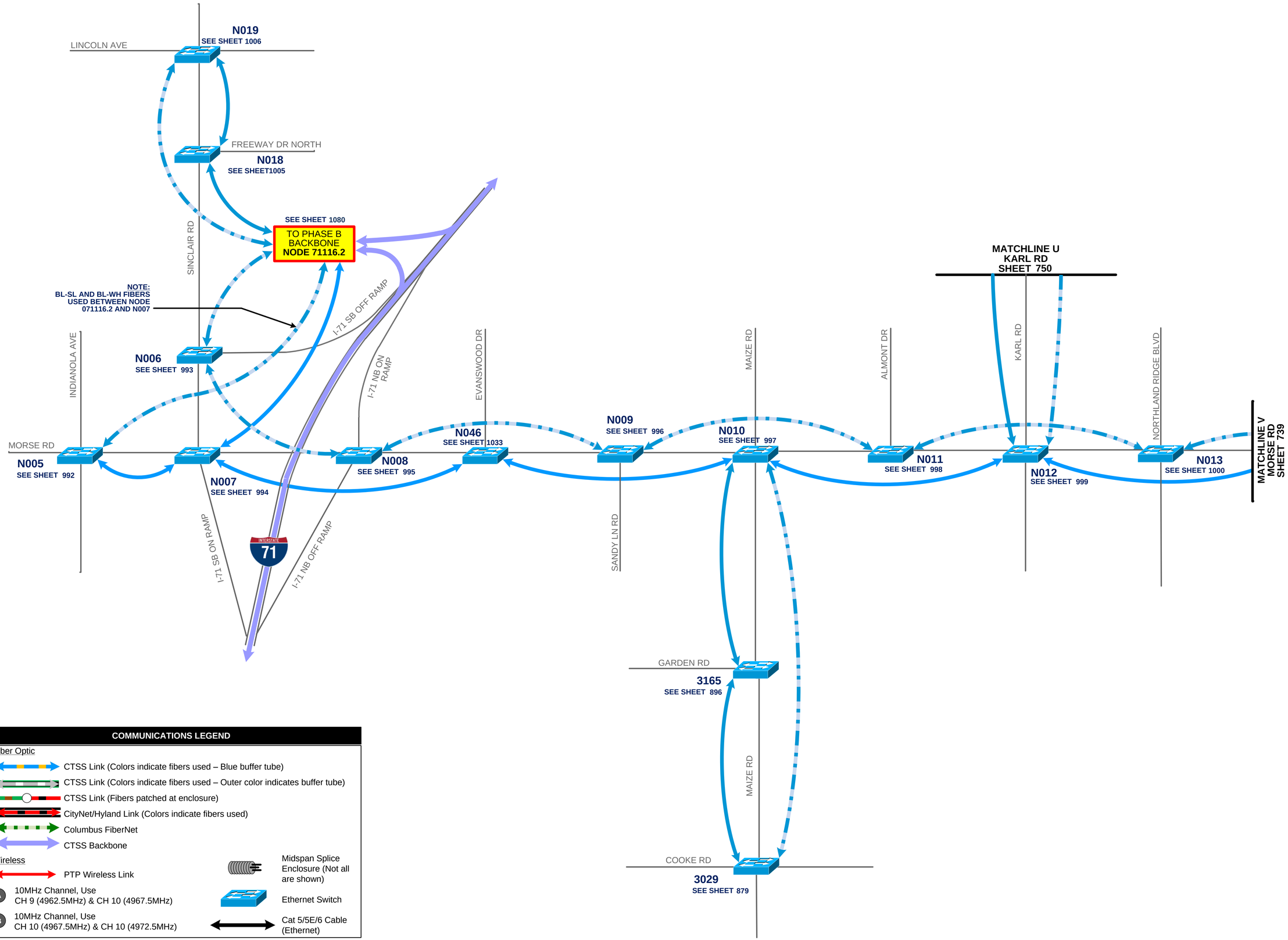
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EAST BROAD STREET CORRIDOR

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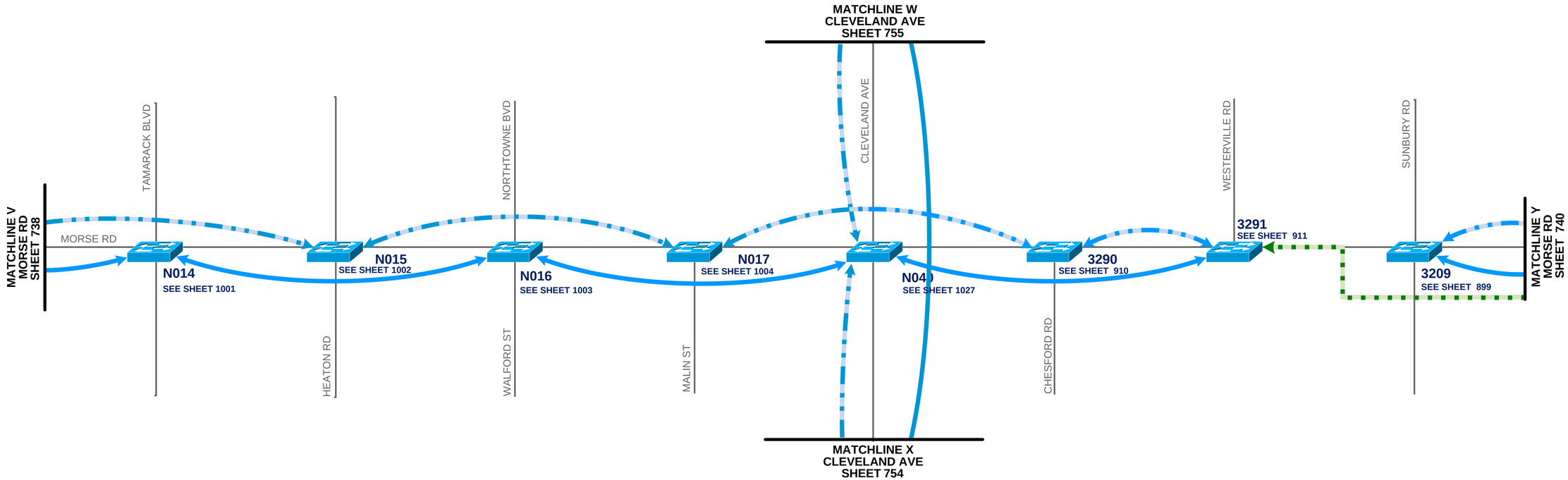
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

MORSE ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

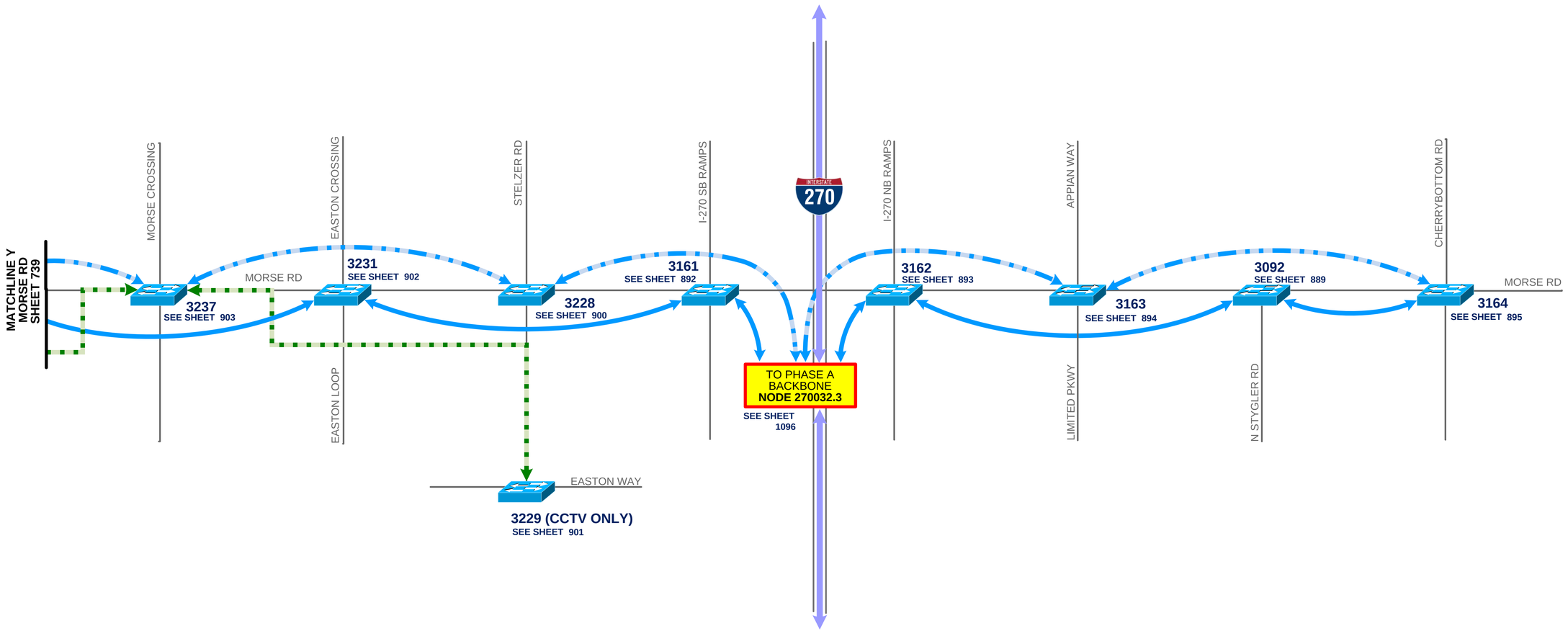
NOT TO SCALE

PID NUMBER 13034

MORSE ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

739
1107



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

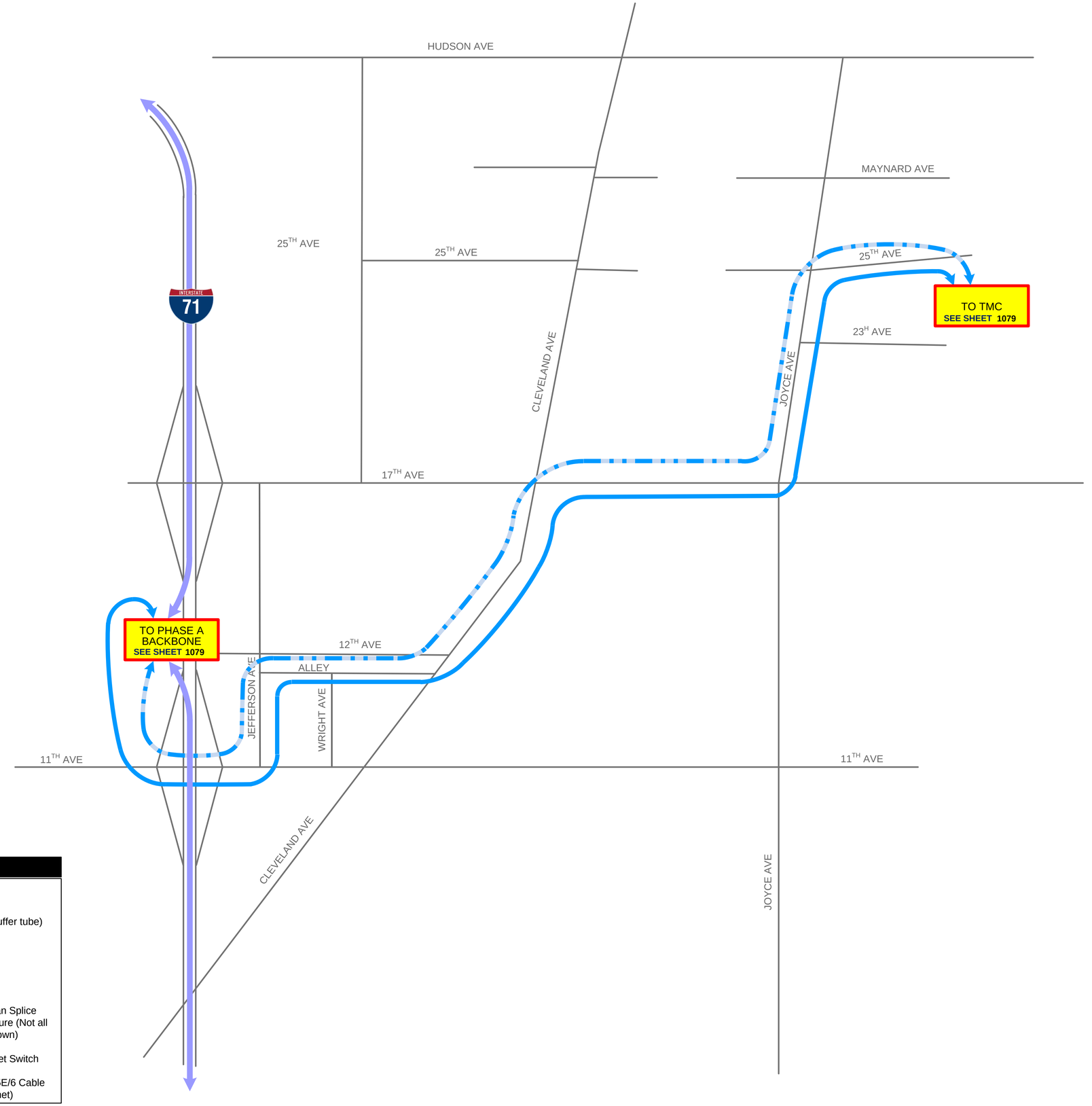
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

MORSE ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

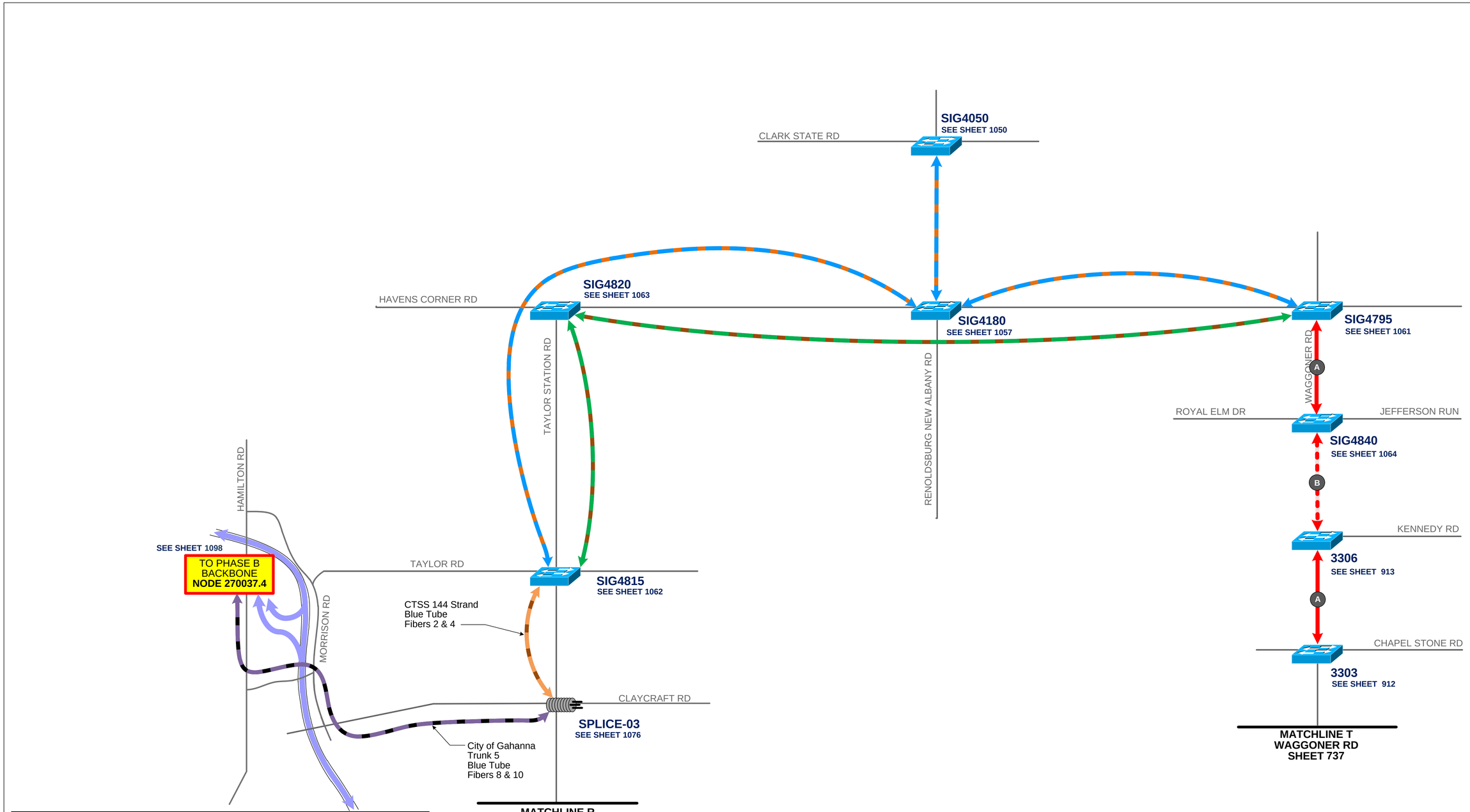
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

TMC COMMUNICATIONS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

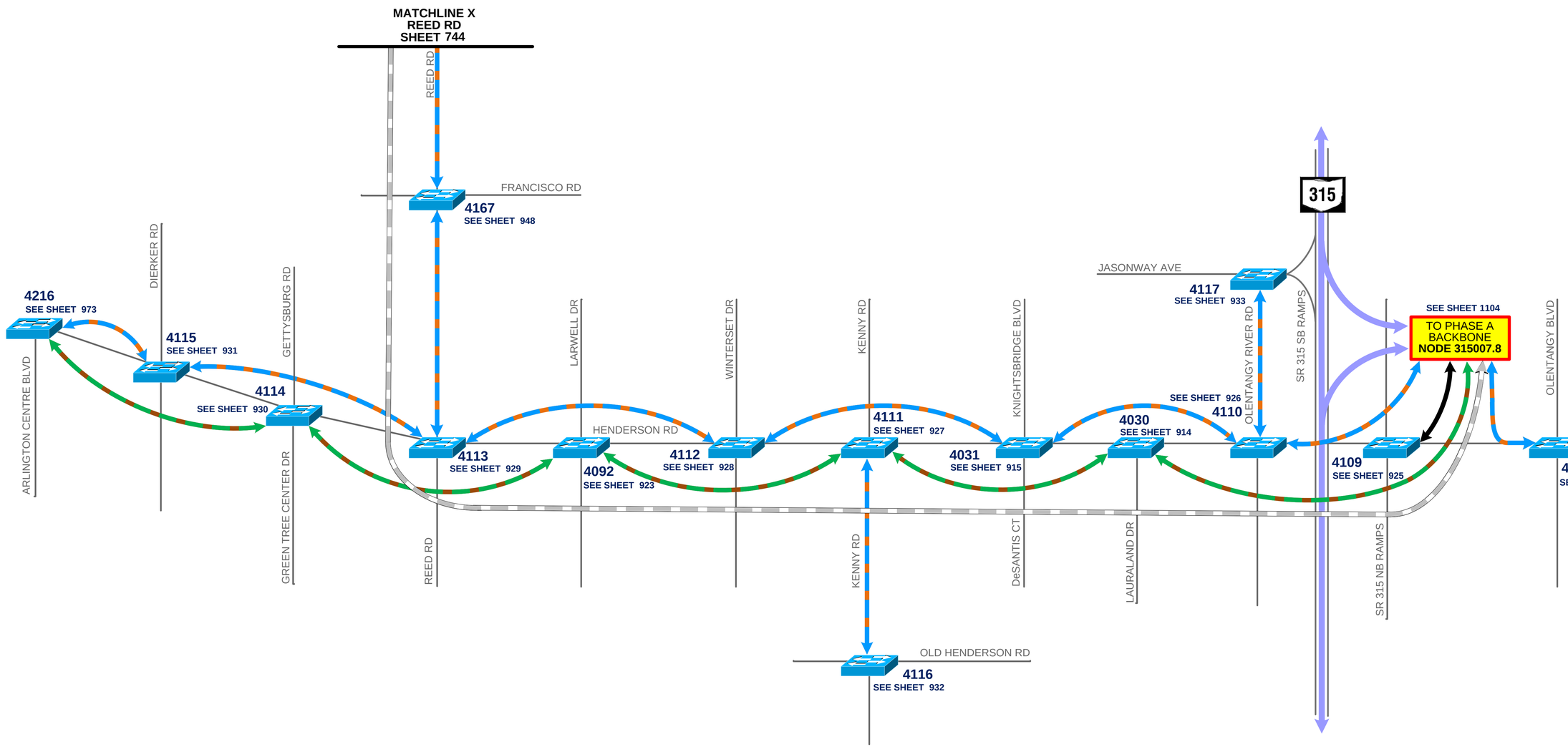
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

HAVENS CORNER ROAD AND WAGGONER ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

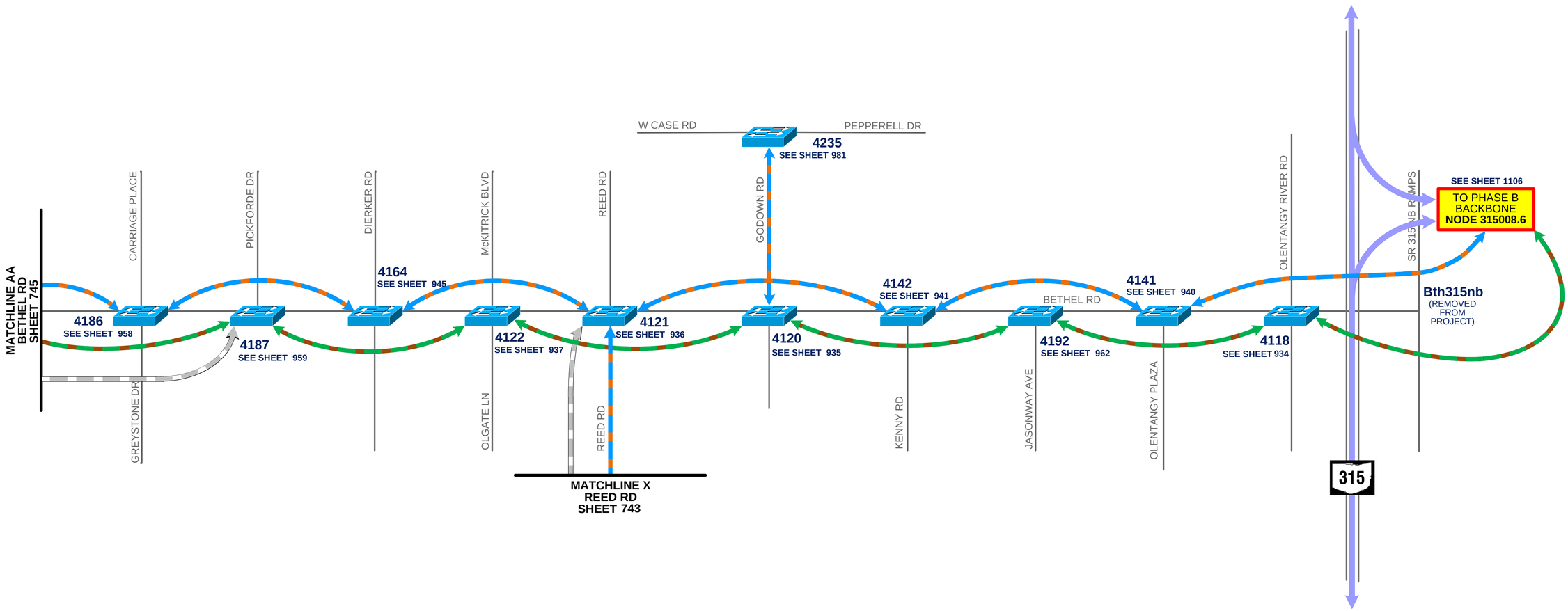
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

HENDERSON ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

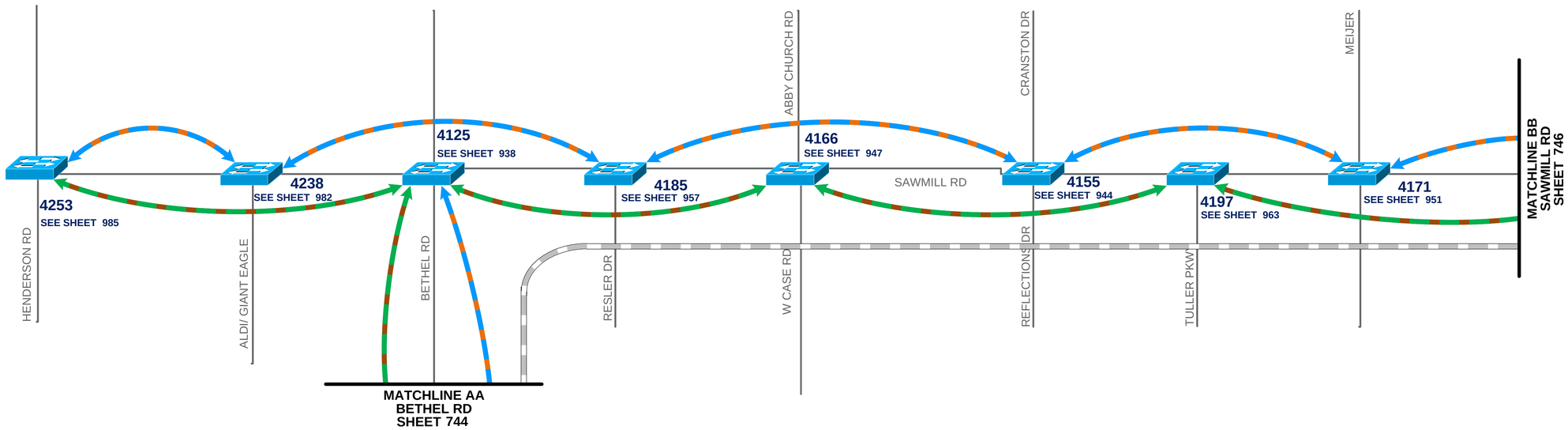
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

BETHEL ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

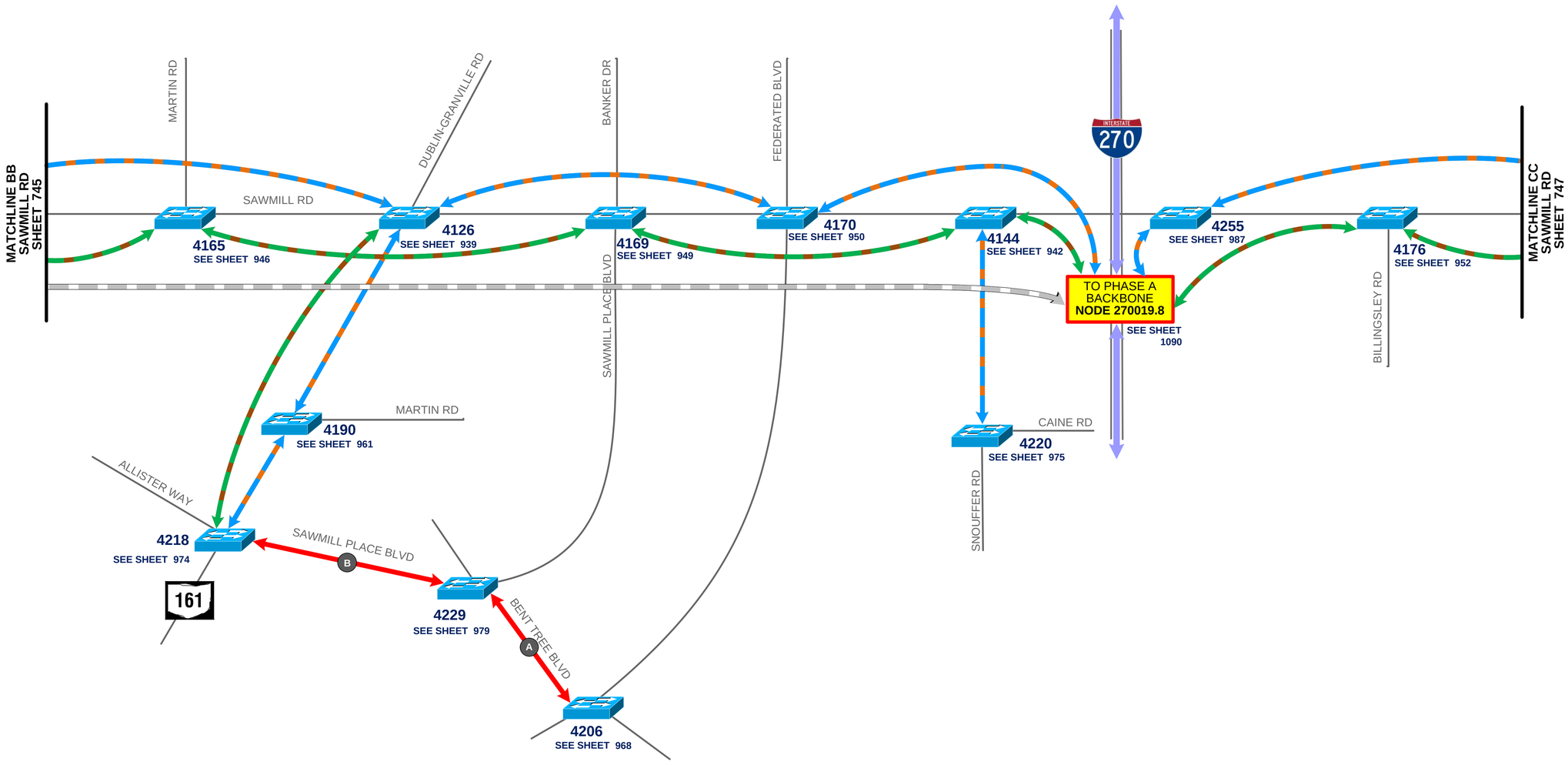
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

SAWMILL ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM ; (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

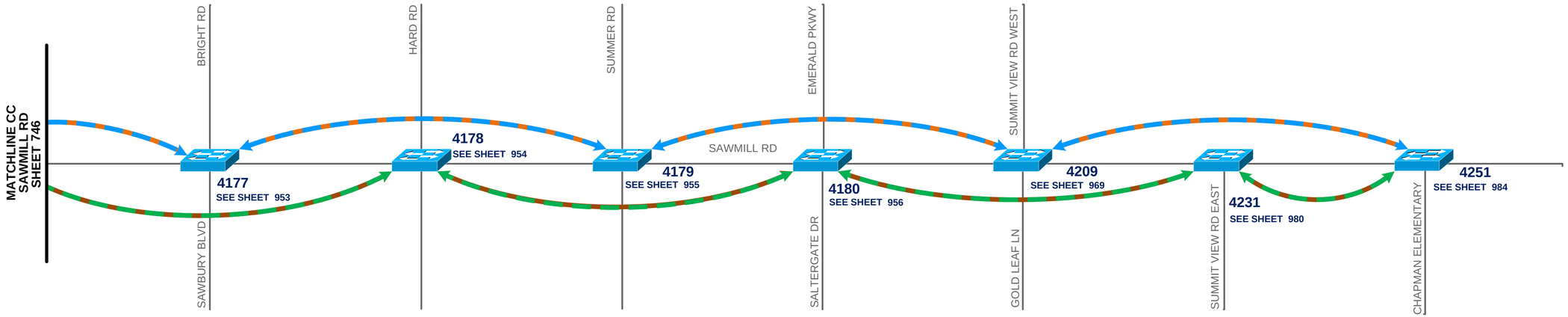
NOT TO SCALE

PID NUMBER 13034

SAWMILL ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM ;
(CTSS) PHASE B - AS BUILT (DRAFT)

942



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

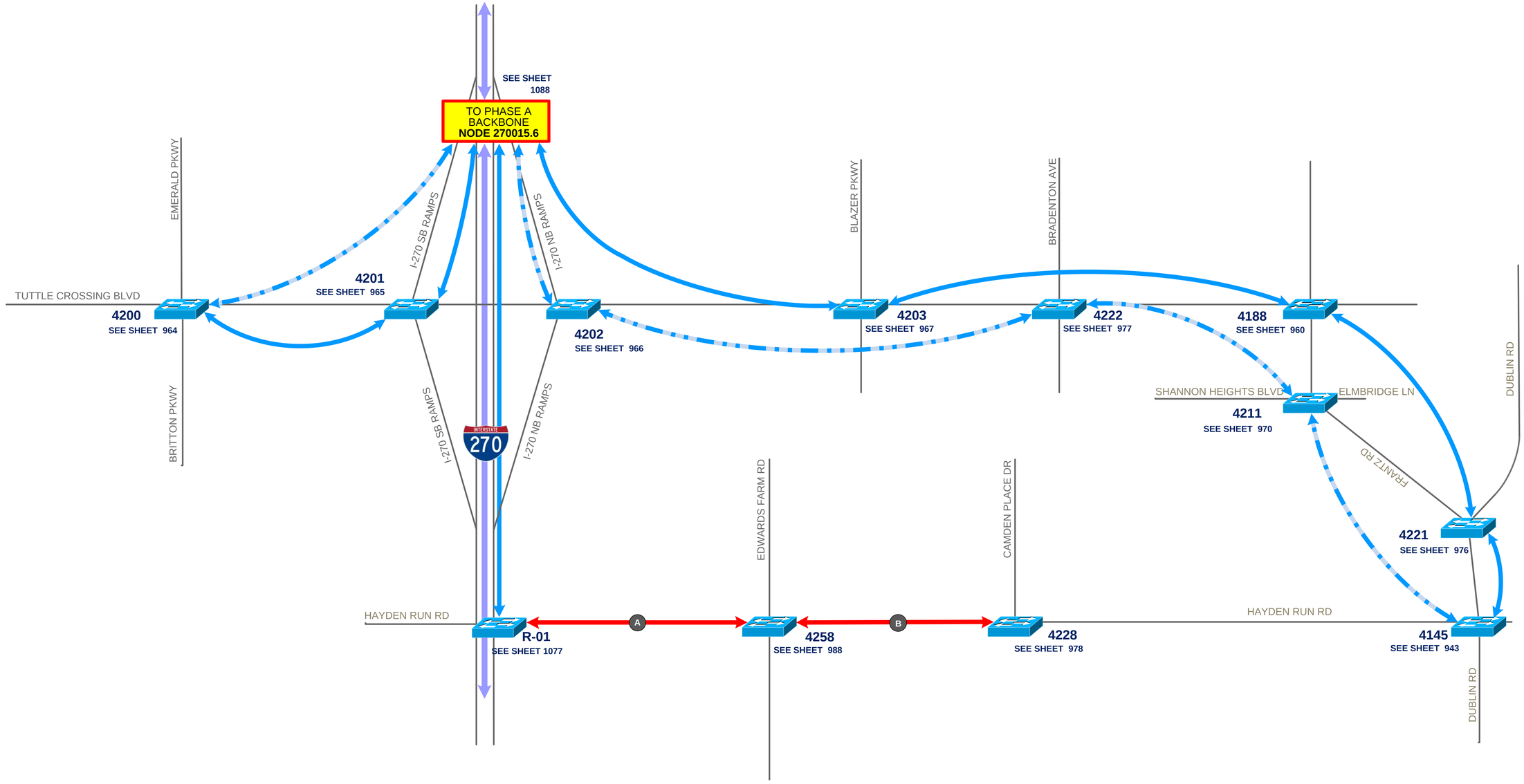
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

SAWMILL ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

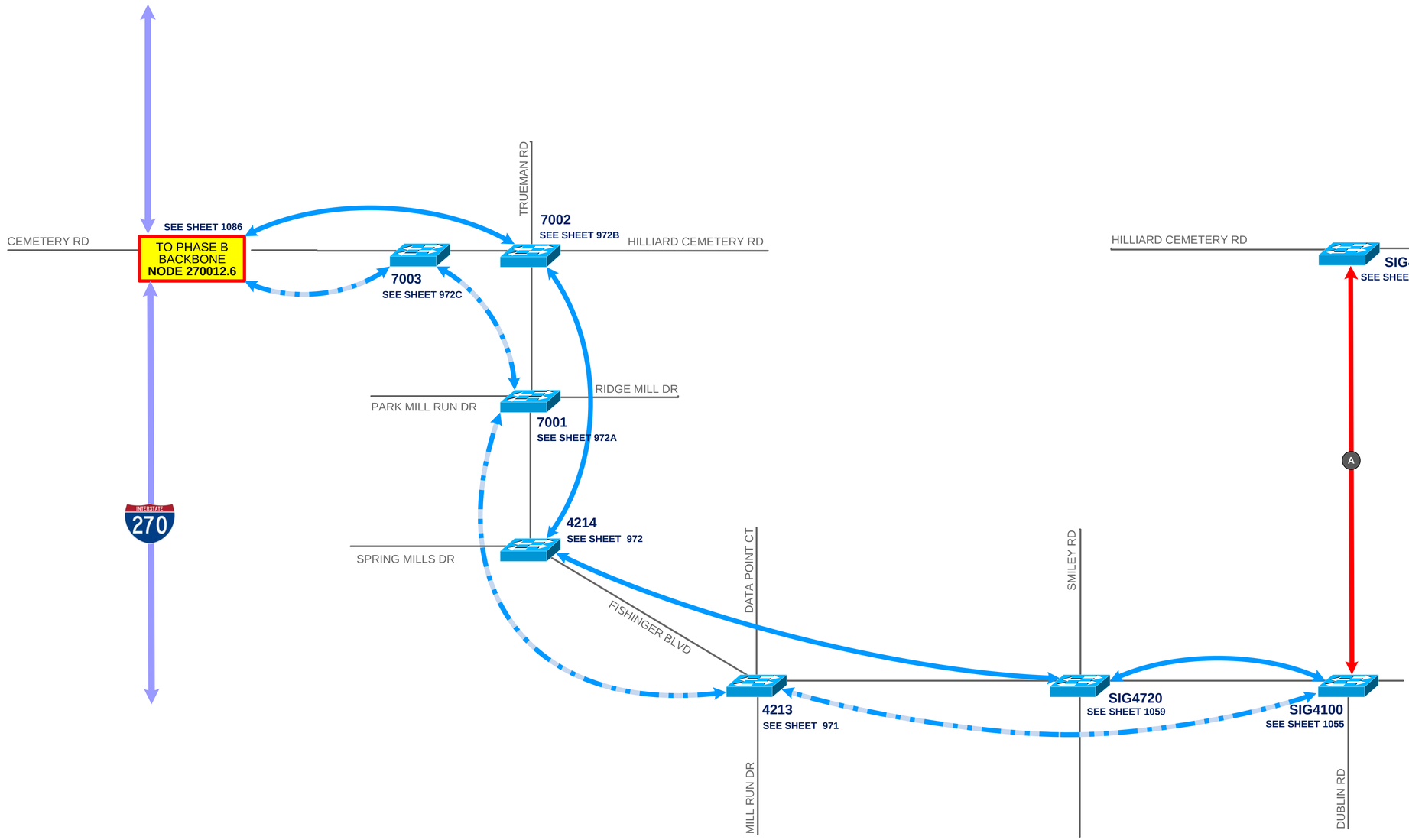
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

TUTTLE CROSSING BLVD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

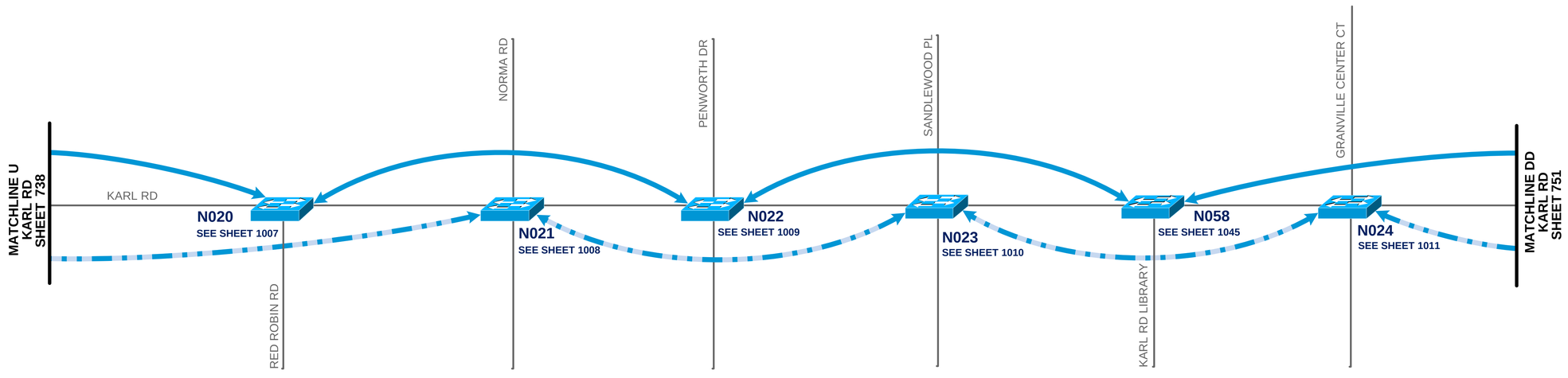
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

FISHINGER ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

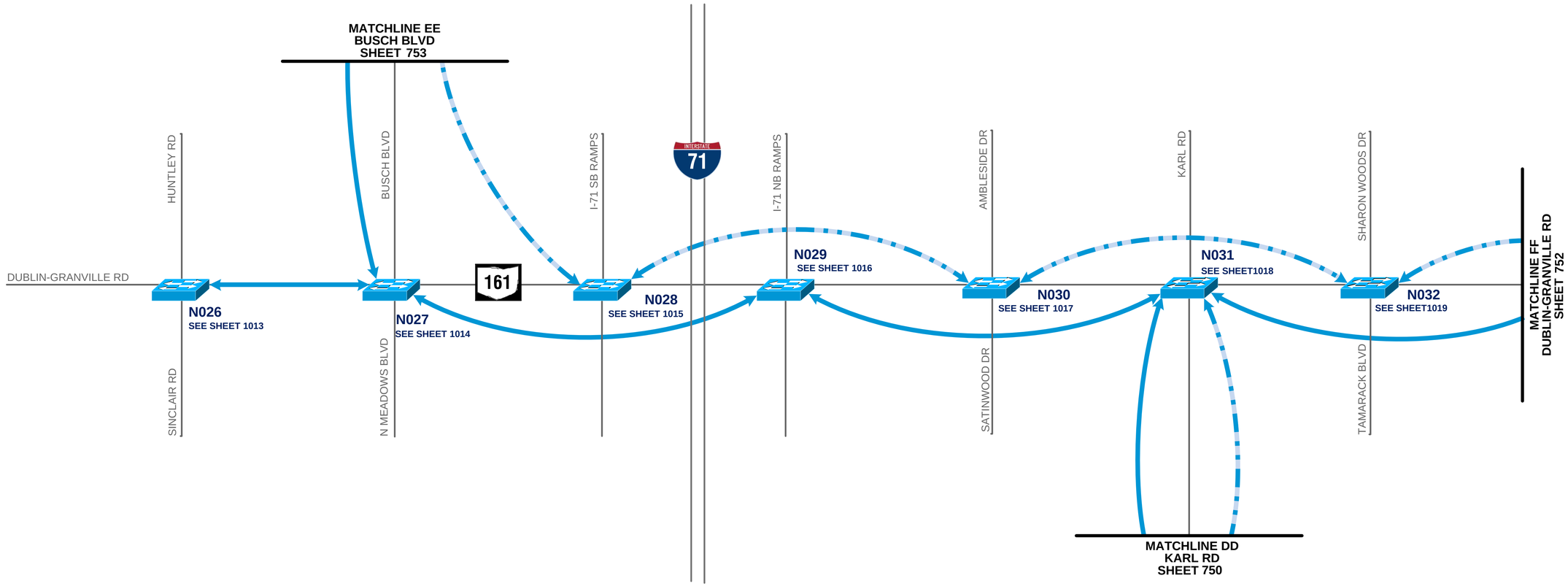
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

KARL ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

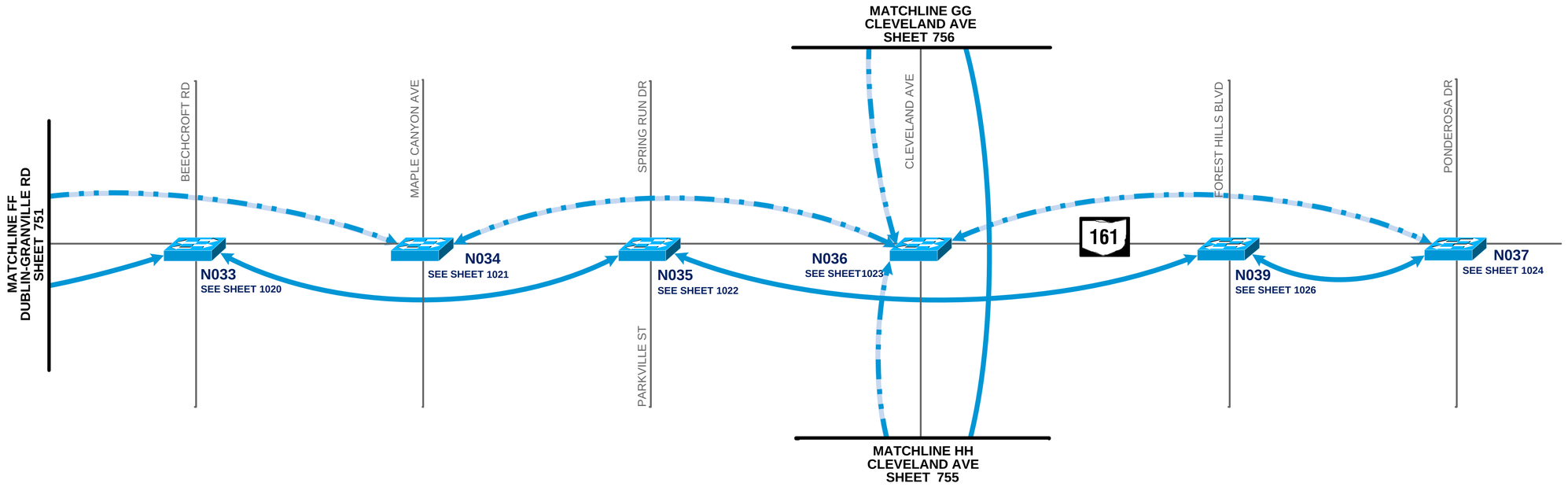
NOT TO SCALE

PID NUMBER 13034

DUBLIN-GRANVILLE ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

751
1107



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

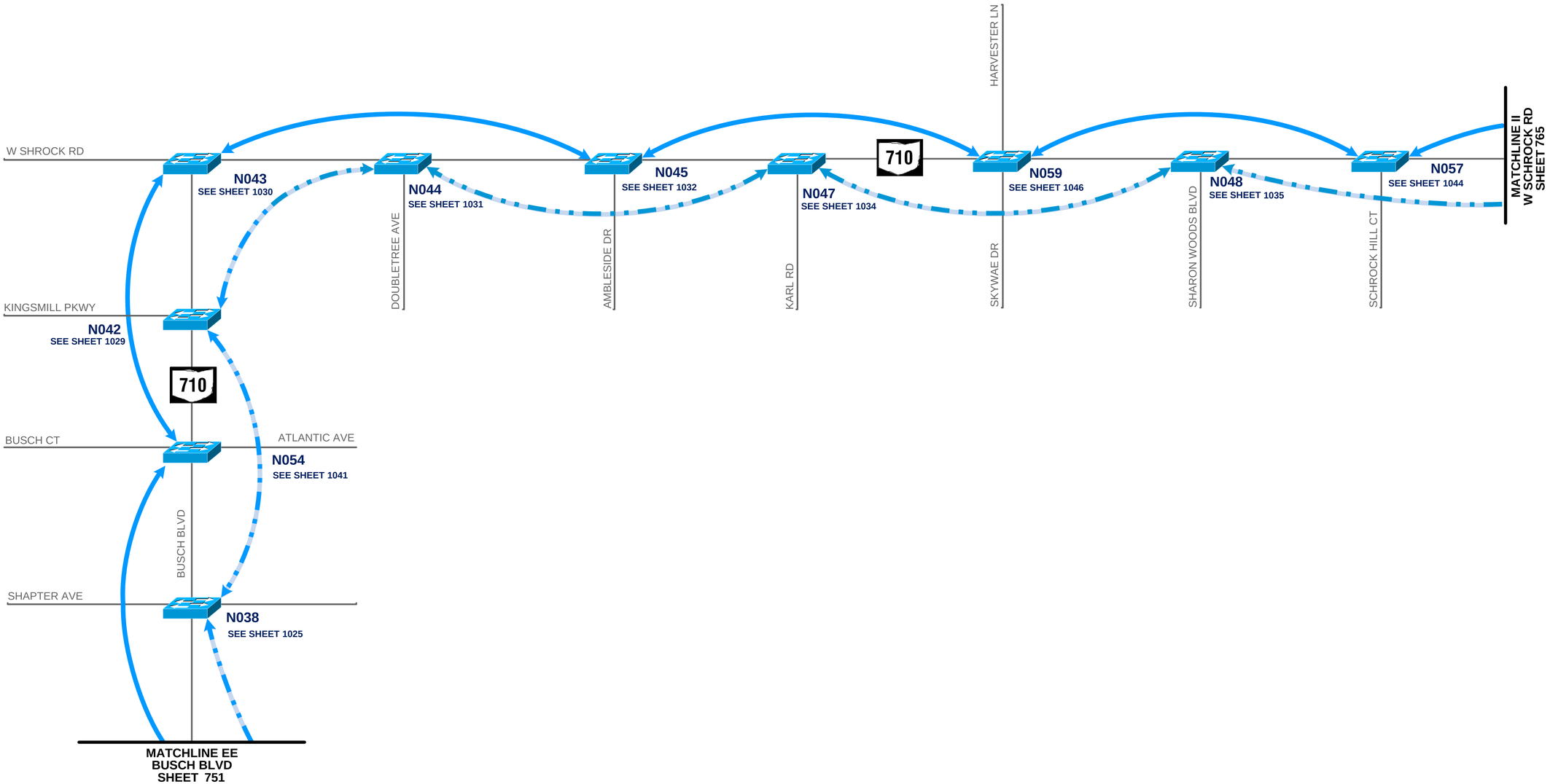
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

DUBLIN-GRANVILLE ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

WEST SCHROCK ROAD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

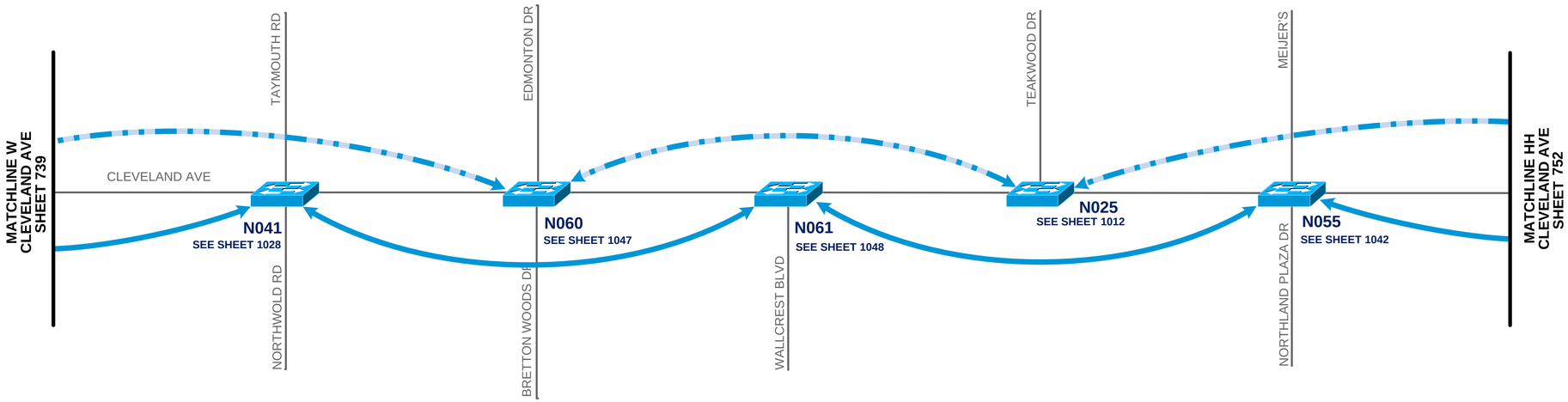
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

CLEVELAND AVENUE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

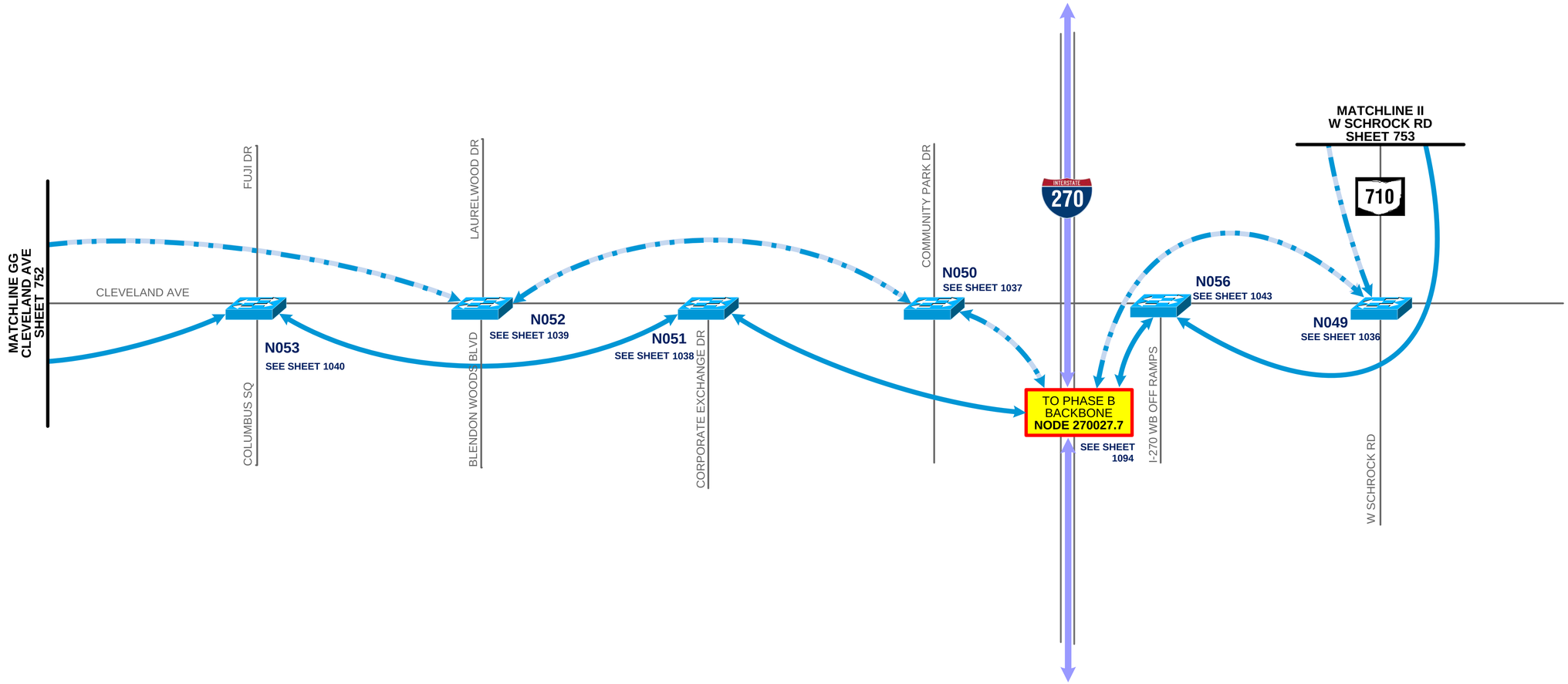
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

CLEVELAND AVENUE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



COMMUNICATIONS LEGEND

Fiber Optic

- CTSS Link (Colors indicate fibers used – Blue buffer tube)
- CTSS Link (Colors indicate fibers used – Outer color indicates buffer tube)
- CTSS Link (Fibers patched at enclosure)
- CityNet/Hyland Link (Colors indicate fibers used)
- Columbus FiberNet
- CTSS Backbone

Wireless

- PTP Wireless Link
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

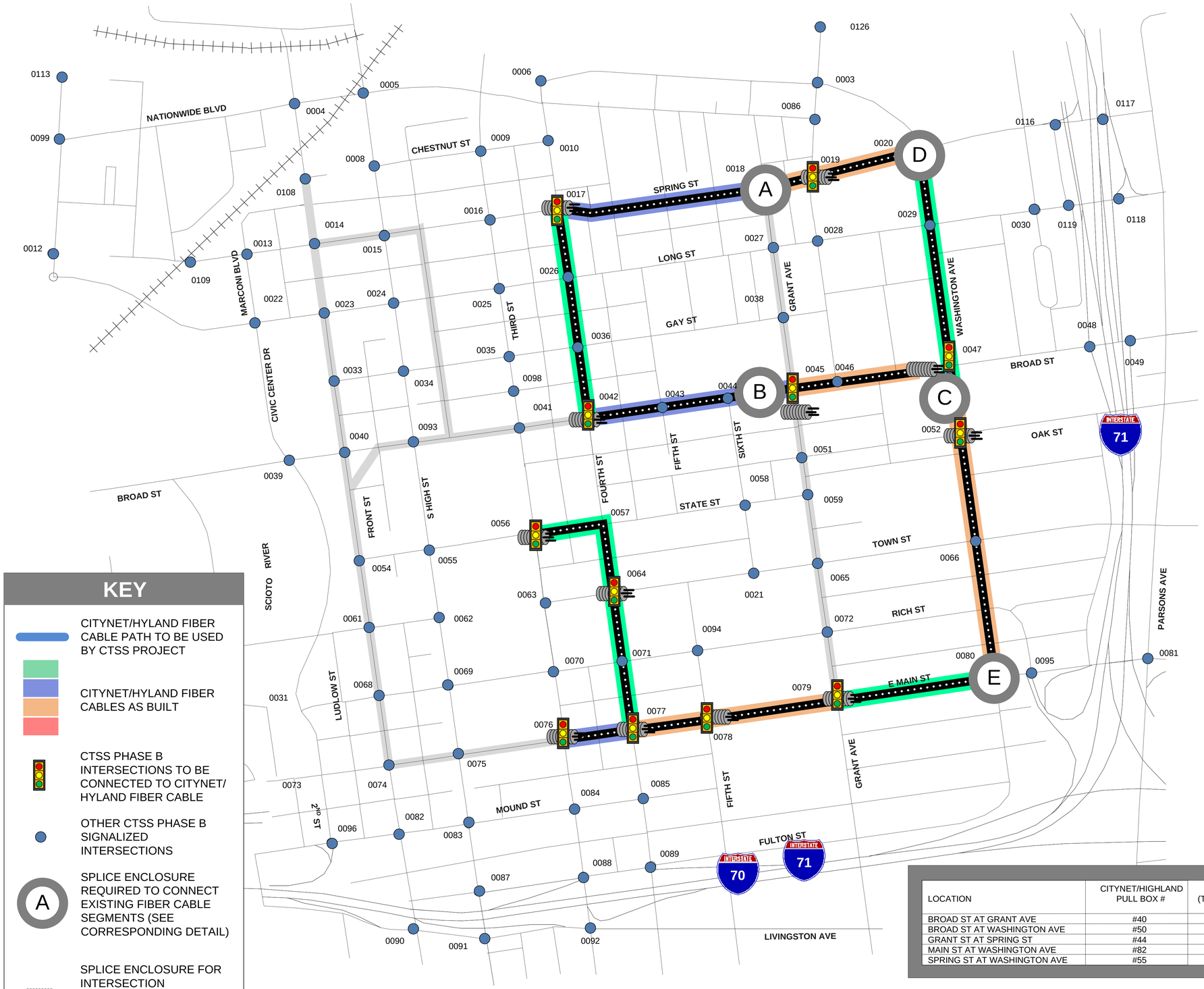
- Midspan Splice Enclosure (Not all are shown)
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)

NOT TO SCALE

PID NUMBER 13034

CLEVELAND AVENUE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)



KEY

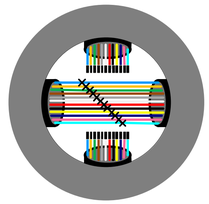
- CITYNET/HYLAND FIBER CABLE PATH TO BE USED BY CTSS PROJECT
- CITYNET/HYLAND FIBER CABLES AS BUILT
- CTSS PHASE B INTERSECTIONS TO BE CONNECTED TO CITYNET/ HYLAND FIBER CABLE
- OTHER CTSS PHASE B SIGNALIZED INTERSECTIONS
- A — SPLICE ENCLOSURE REQUIRED TO CONNECT EXISTING FIBER CABLE SEGMENTS (SEE CORRESPONDING DETAIL)
- SPLICE ENCLOSURE FOR INTERSECTION CONNECTION – QUANTIFIED ON INTERSECTION PLAN SHEET

LOCATION	CITYNET/HIGHLAND PULL BOX #	DETAIL (THIS SHEET)
BROAD ST AT GRANT AVE	#40	'B'
BROAD ST AT WASHINGTON AVE	#50	'C'
GRANT ST AT SPRING ST	#44	'A'
MAIN ST AT WASHINGTON AVE	#82	'E'
SPRING ST AT WASHINGTON AVE	#55	'D'

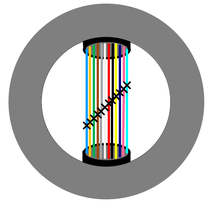
FIBER SPLICING DETAIL OF CITYNET/HYLAND CABLE - WHITE TUBE



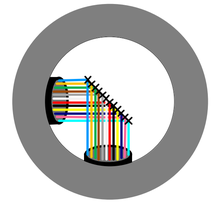
DETAIL 'A'



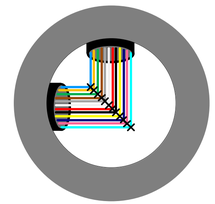
DETAIL 'B'



DETAIL 'C'



DETAIL 'D'

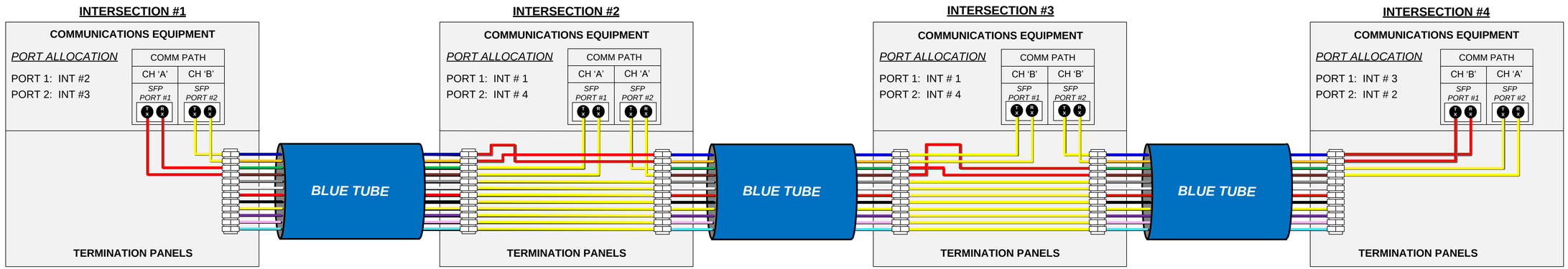


DETAIL 'E'

PID NUMBER 13034
2762 DR. E

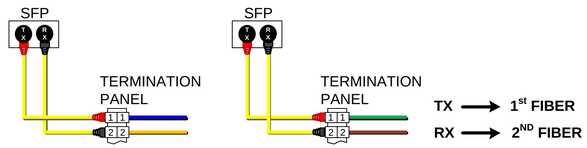
CITYNET/HYLAND FIBER OPTIC CABLE CONNECTION LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

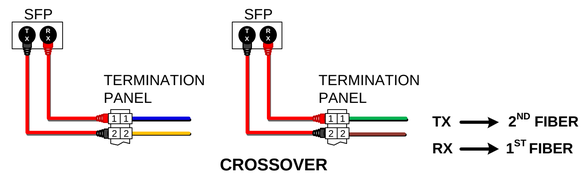


DUAL CHANNEL FIBER OPTIC COMMUNICATIONS PATH DIAGRAM

PATCH CABLES [1,2]



STANDARD



CROSSOVER

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- CITY FIBERNET SMF CABLE

SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

NOTES

1. CROSSOVER CABLES ON PLANS ARE SHOWN AS RED IN COLOR FOR PURPOSE OF CLARITY. ACTUAL CROSSOVER PATCH CABLES ARE NOT DIFFERENT IN COLOR.
2. PATCH CABLES TO BE OF DUPLEX CONSTRUCTION WITH RED AND BLACK CONNECTORS DIFFERENTIATING FIBERS.
3. COMMUNICATIONS PATH DESTINATIONS DEPICTED BY PORT ALLOCATION TABLES ARE LOGICAL AND MAY NOT BE IDENTICAL TO THE DESTINATION OF THE PHYSICAL FIBER OPTIC CABLE.
4. THE ENGINEER SHALL APPROVE FINAL LOCATION OF EACH NODE THAT CONTRACTOR PROPOSES AND RESERVES THE RIGHT TO RELOCATE THEM AT THEIR DISCRETION BASED ON ACTUAL FIELD CONDITIONS.
5. SPLICE INDIVIDUAL FIBERS FROM FIRST BUFFER TUBE THROUGH TO CORRESPONDING COLOR FIBERS OF SECOND BUFFER TUBE

FIBER OPTIC BUFFER TUBES



SPLICES[5]

- PROPOSED
- EXISTING

FIBER BUFFER TUBES (COLORS WILL VARY)

- PROPOSED (FIBERS 1-144)
- PROPOSED (FIBERS 145-288)
- EXISTING (FIBERS 1-144)
- EXISTING (FIBERS 145-288)
- FILLING ELEMENT

- FIBER OPTIC SPLICE ENCLOSURE
- 8P8C CONNECTOR
- RF CONNECTOR
- WIRELESS RADIO
- PROPOSED PTZ TRAFFIC SURVEILLENCE CAMERA — PROPOSED CCTV
- EXISTING TRAFFIC SURVEILLENCE CAMERA — EXISTING CCTV

- EXISTING FI BER OPTIC CABLE — SMF CABLE
- PROPOSED FIBER OPTIC CABLE — SMF CABLE

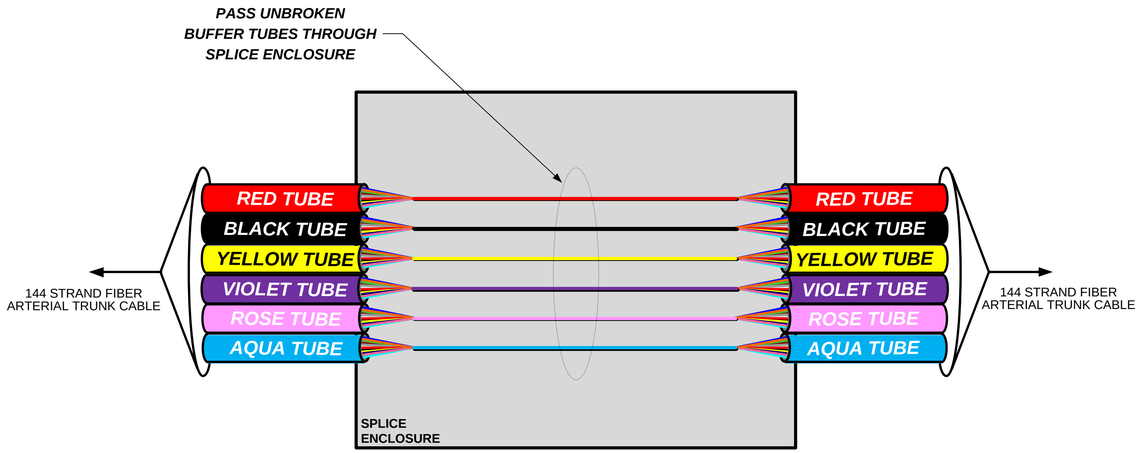
PID NUMBER 13034
2762 DR. E

COMMUNICATION NOTES

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

144-FIBER TRUNK CABLE - D.O.T. FIBERS

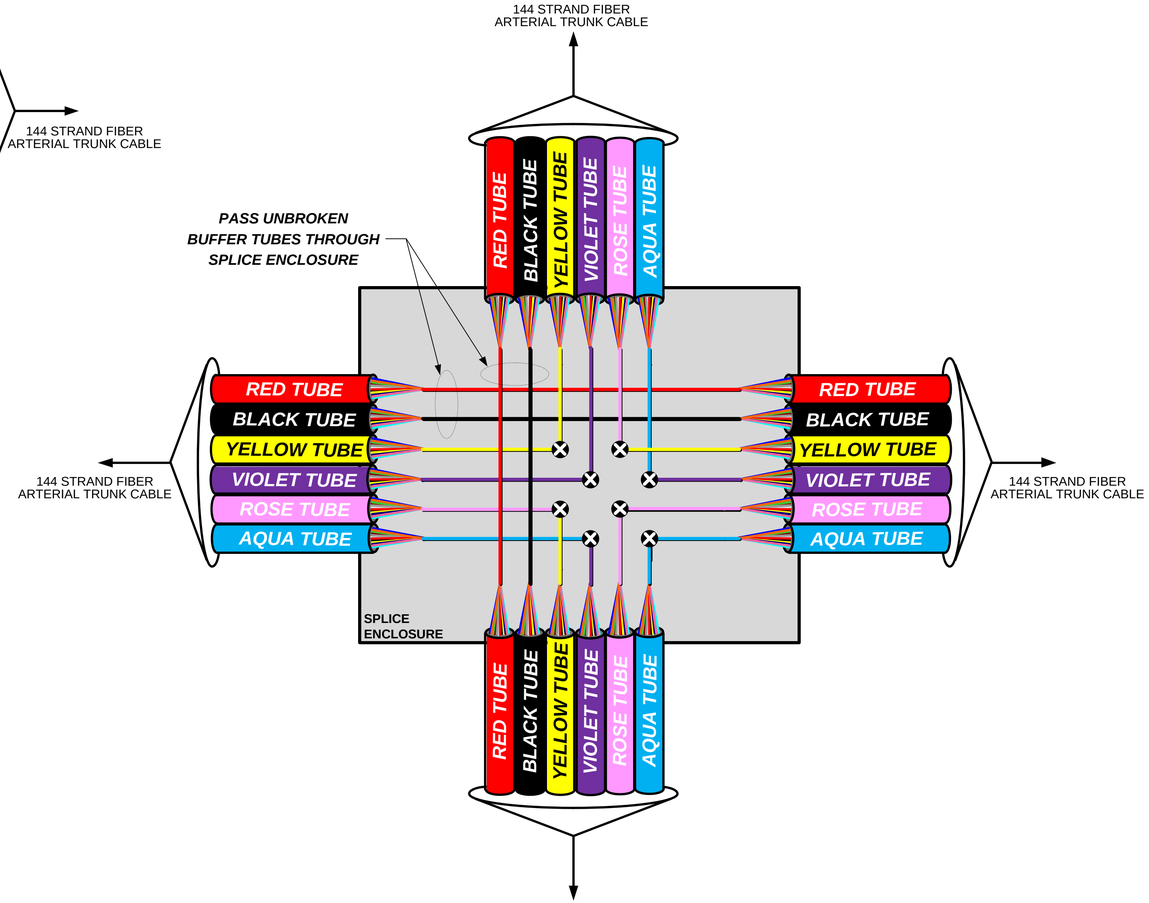
TUBES 7-12 (FIBERS 73-144) SPLICING DETAILS



TYPICAL SPLICING DIAGRAM – 2 CABLES

APPLICABLE TO SHEETS:

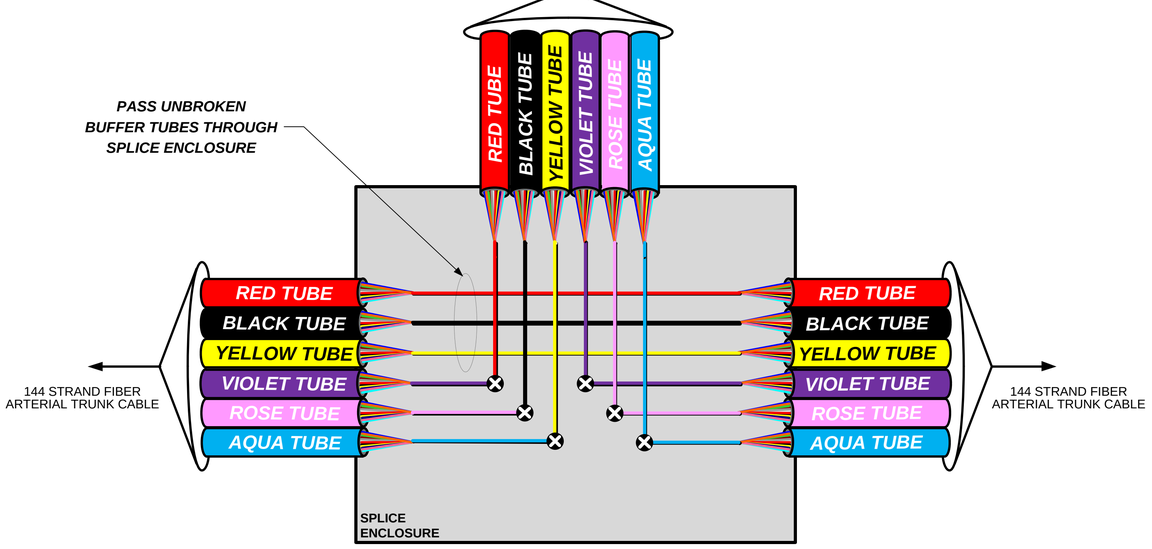
760 - 763, 768, 772, 774, 782, 783, 786 - 789, 793 - 794, 796 - 797, 810 - 811, 817 - 818, 823, 825, 831, 836 - 838, 840, 842, 849, 851, 855 - 858, 860 - 870, 874 - 875, 882, 885, 887 - 889, 891 - 894, 896 - 897, 900, 902 - 904, 907 - 910, 914 - 916, 919 - 920, 922 - 923, 928, 930 - 931, 934, 937, 940 - 941, 944 - 963, 965 - 967, 969 - 972, 976 - 977, 980, 982 - 983, 987, 989, 991, 993, 995 - 996, 998, 1000 - 1005, 1007 - 1012, 1015 - 1017, 1019 - 1022, 1025 - 1026, 1028 - 1042, 1044 - 1049, 1051 - 1054, 1058 - 1059, 1062 - 1063, 1065, & 1068 - 1071



TYPICAL SPLICING DIAGRAM – 4 CABLES

APPLICABLE TO SHEETS:

764, 791 - 792, 839, 921, 1023, & 1027



TYPICAL SPLICING DIAGRAM – 3 CABLES

APPLICABLE TO SHEETS:

765, 771, 773, 790, 795, 812, 824, 829 - 830, 853, 859, 883 - 884, 886, 905, 926 - 927, 929, 935 - 936, 938 - 939, 942, 990, 994, 997, 999, 1014, 1018, & 1057

⊗ - ***SPLICE INDIVIDUAL FIBERS FROM FIRST BUFFER TUBE THROUGH TO CORRESPONDING COLOR FIBERS OF SECOND BUFFER TUBE***

NOTE - DETAILED SPLICING DIAGRAMS SUPERSEDE TYPICAL DIAGRAMS SHOWN ON THIS SHEET

PID NUMBER 13034
2762 DR. E

144 FIBER TRUNK CABLE - D.O.T. FIBERS
TUBES 7-12 (FIBERS 73-144) SPLICING DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

TO SPLICE ENCLOSURE
MATCHLINE 'A' - SEE SHEET 760A

PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0007: CLEVELAND AVE. AT FORT HAYES
SEE SHEET 767

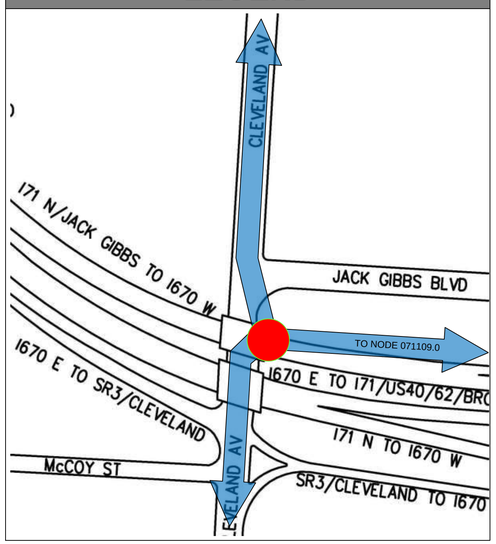
PORT 6: INTERSECTION 0126: CLEVELAND AVE. AT JEFFERSON AVE.
SEE SHEET 763

PORT 7: EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670
SEE SHEET 1107A

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0001

REFER TO SHEET 67 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

SEE SHEET 767

INTERSECTION 0007: CLEVELAND AVE. AT FORT HAYES

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 760

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

288 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670

SPLICE ENCLOSURE IN EXISTING 32" PULL BOX
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

288 STRAND FOC CABLE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/ DUBLIN RD.

SEE SHEET 761

INTERSECTION 0002: CLEVELAND AVE. AT I-670 EB ON RAMP

INTERSECTION 0001

PID NUMBER 13034
2762 DR. E

INTERSECTION 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

760A
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0007: CLEVELAND AVE. AT FORT HAYES
SEE SHEET 767

PORT 6: INTERSECTION 0003: CLEVELAND AVE. AT MT. VERNON AVE.
SEE SHEET 762

10/100 Mbs

EXISTING: TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.

SEE SHEET 760

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 763

INTERSECTION 0126: CLEVELAND AVE. AT JEFFERSON AVE.

BLUE TUBE

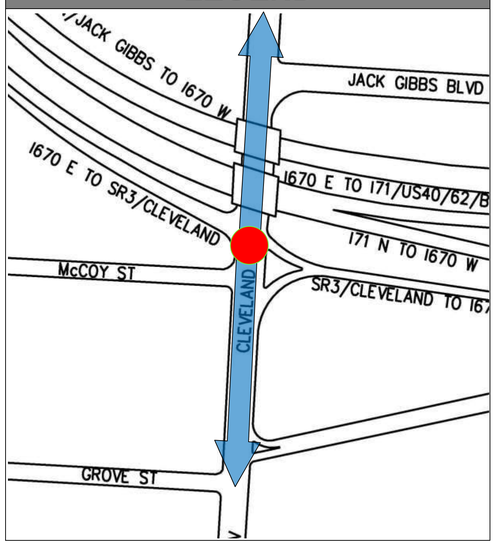
ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0002

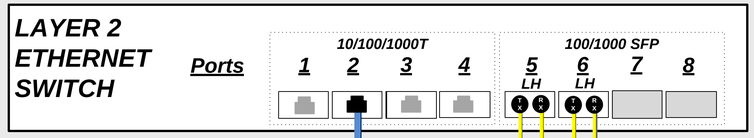
REFER TO SHEET 68 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0002: CLEVELAND AVE. AT I-670 EB ON RAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

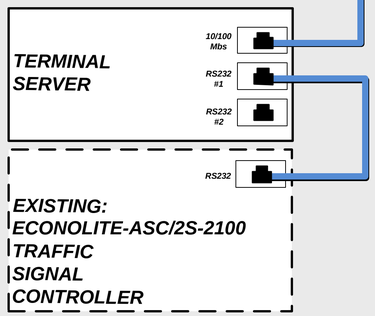
TRAFFIC SIGNAL CABINET ASSEMBLY



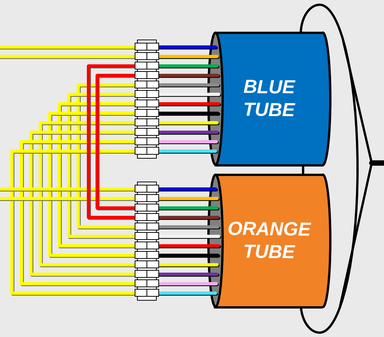
ETHERNET SWITCH PORT DESTINATION

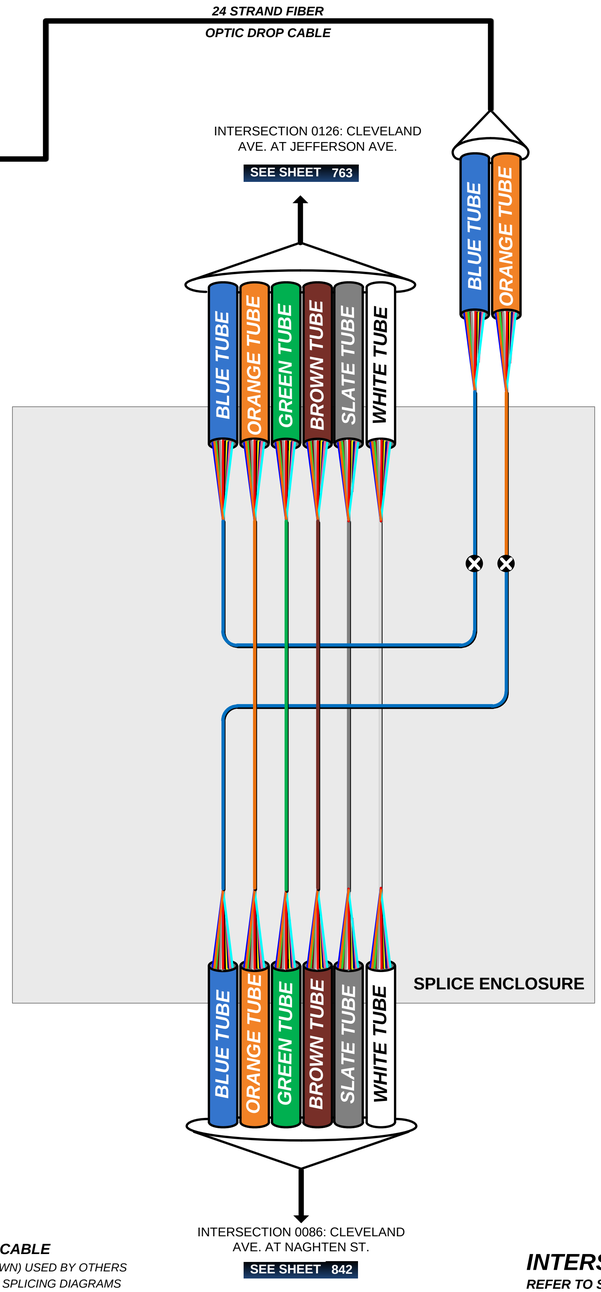
PORT 5: INTERSECTION 0002: CLEVELAND AVE. AT I-670 EB ON RAMP
SEE SHEET 761

PORT 6: INTERSECTION 0019: CLEVELAND AVE. AT SPRING ST.
SEE SHEET 778



PATCH PANEL ENCLOSURE – 24 TERMINATION

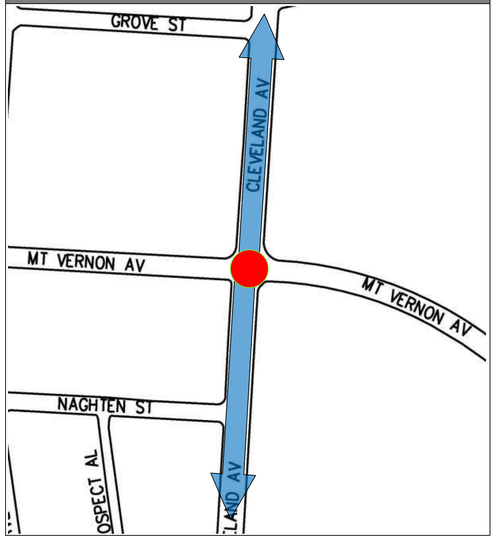




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0003

REFER TO SHEET 70 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0003: CLEVELAND AVE. AT MT. VERNON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.
SEE SHEET 760

PORT 6: INTERSECTION 0086: CLEVELAND AVE. AT NAGHTEN ST.
SEE SHEET 842

EXISTING ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100 Mbs ETHERNET MODULE

CCTV FIELD BOX

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0002: CLEVELAND AVE. AT I-670 EB ON RAMP
SEE SHEET 761

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

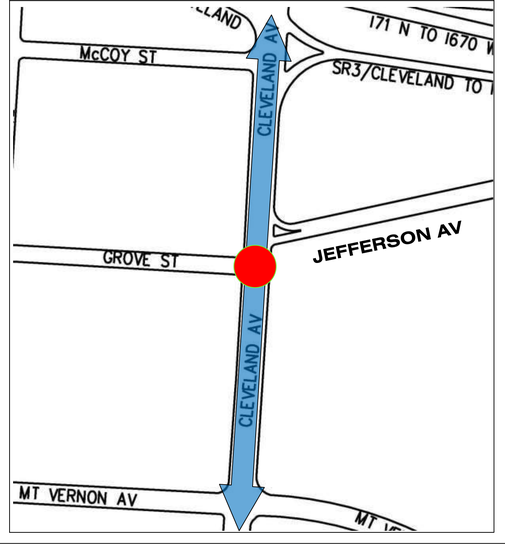
SEE SHEET 762

INTERSECTION 0003: CLEVELAND AVE. AT MT. VERNON AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0126

REFER TO SHEET 69 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0126: CLEVELAND AVE. AT JEFFERSON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7 LH, 8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0108: FRONT ST. AT NATIONWIDE GARAGE
SEE SHEET 862

PORT 6: INTERSECTION 0108: FRONT ST. AT NATIONWIDE GARAGE
SEE SHEET 862

PORT 7: EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/DUBLIN RD.
SEE SHEET 1102

PORT 8: INTERSECTION 0005: HIGH ST. AT NATIONWIDE BLVD.
SEE SHEET 765

EXISTING CCTV SITE FRONT ST. AT NATIONWIDE BLVD.

REFER TO SHEET 73 FOR CONSTRUCTION PLAN DETAILS

CCTV FIELD BOX

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

EXISTING CCTV CABINET

COMPOSITE CCTV CABLE

PROPOSED CCTV

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

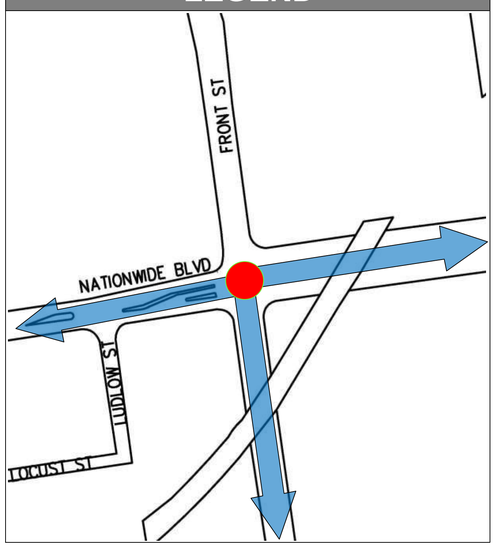
MATCHLINE 'A' - SEE SHEET 764A
TO SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



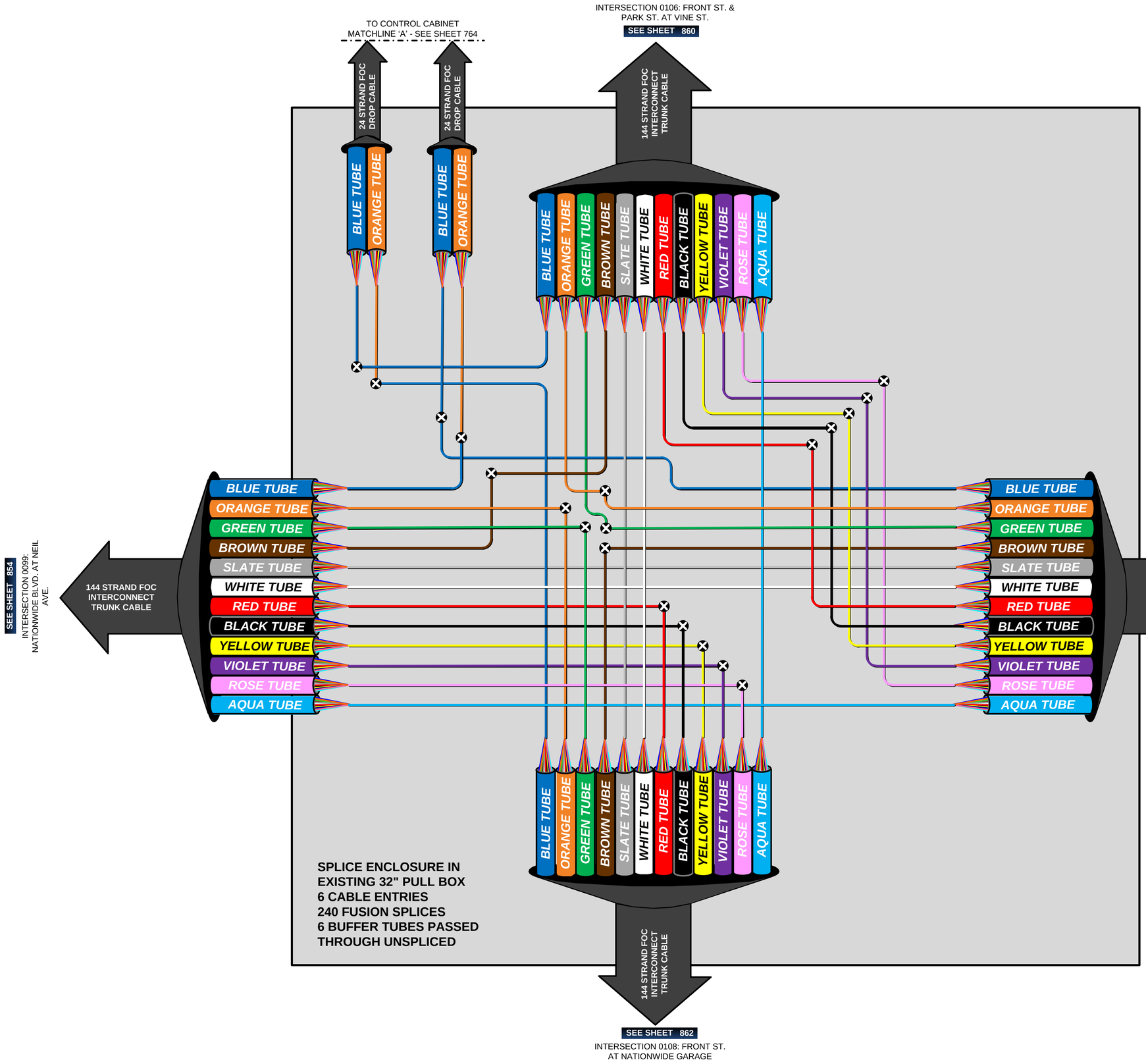
INTERSECTION 0004

REFER TO SHEET 73 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

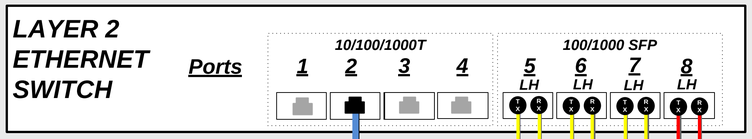
INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

764A
1107

INTERSECTION 0004

TRAFFIC SIGNAL CABINET ASSEMBLY



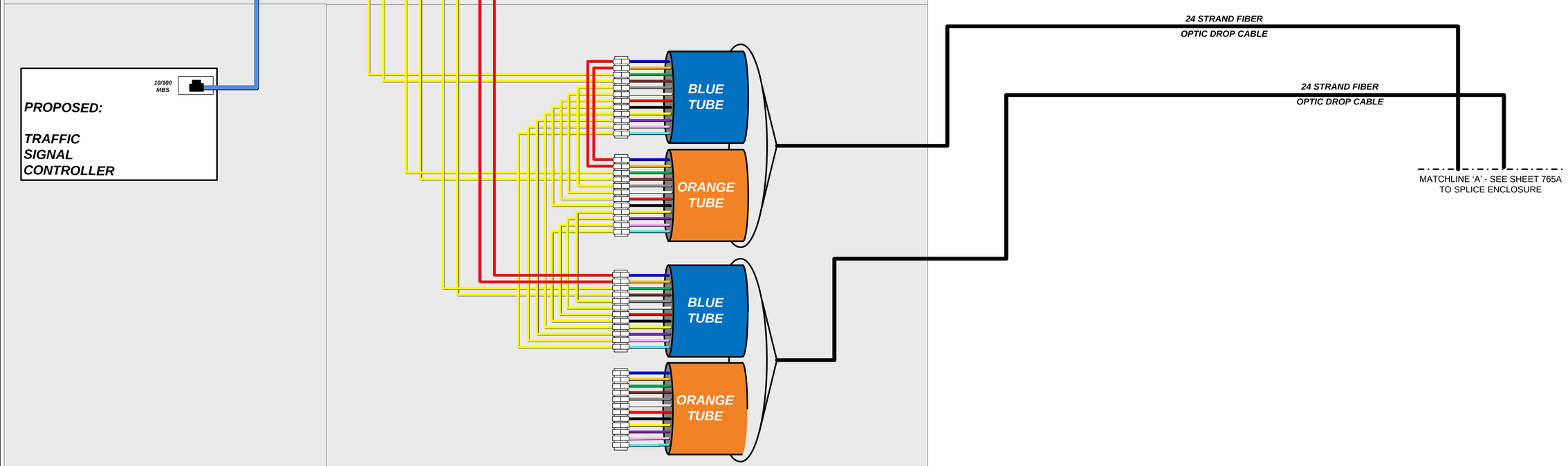
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3168: FOURTH ST. AT GOODALE ST.
SEE SHEET 898

PORT 6: INTERSECTION 0015: HIGH ST. AT SPRING ST.
SEE SHEET 774

PORT 7: INTERSECTION 0012 & 0032: LONG ST. AND SPRING ST. AT NEIL AVE.
SEE SHEET 771

PORT 8: INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.
SEE SHEET 764

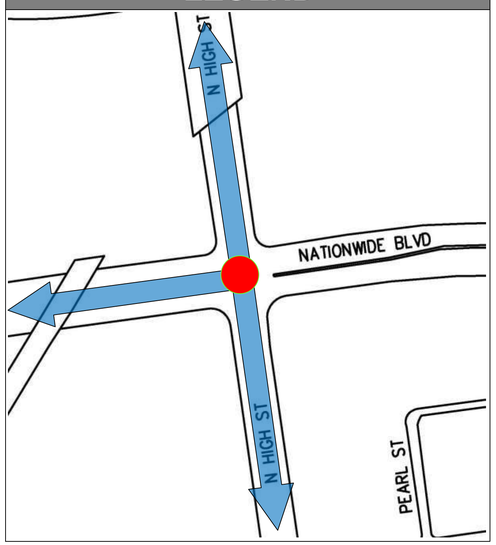


PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0005

REFER TO SHEET 74 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0005: HIGH ST. AT NATIONWIDE BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 0107: HIGH ST.
AT VINE ST.

SEE SHEET 861

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 765

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

INTERSECTION 0004: FRONT
ST. AT NATIONWIDE BLVD.

SEE SHEET 764

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SPLICE ENCLOSURE IN
EXISTING 32" PULL BOX
5 CABLE ENTRIES
168 FUSION SPLICES
4 COILED BUFFER TUBES
4 BUFFER TUBES PASSED THROUGH UNSPLICED

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 768

INTERSECTION 0008:
CHESTNUT ST. AT HIGH ST.

PID NUMBER 13034
2762 DR. E

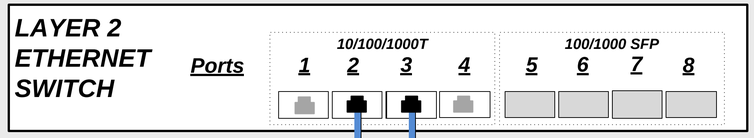
INTERSECTION 0005: HIGH ST. AT NATIONWIDE BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

765A
1107

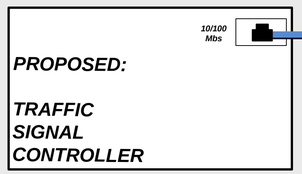
INTERSECTION 0005

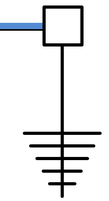
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0010: CHESTNUT ST. AT FOURTH ST.
SEE SHEET 770





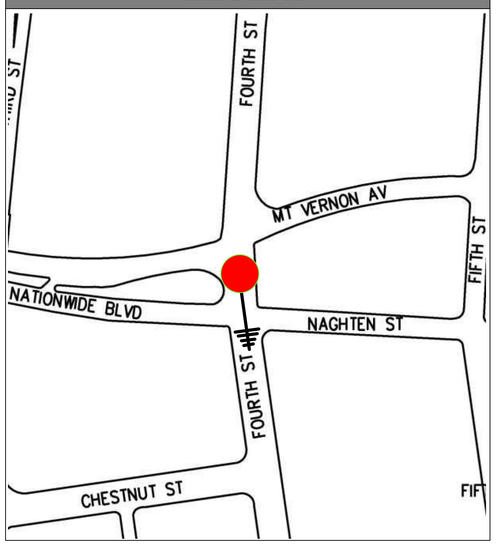
SEE SHEET 770

WIRELESS LINK TO
INTERSECTION 0010: CHESTNUT
ST. AT FOURTH ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0006

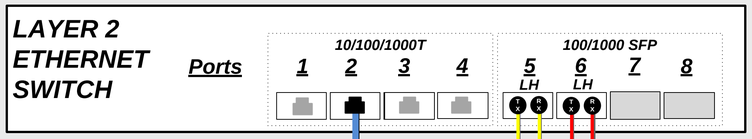
REFER TO SHEET 75 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0006: FOURTH ST. AT NAGHTEN ST. & MT. VERNON AVE. & NATIONWIDE BLVD
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

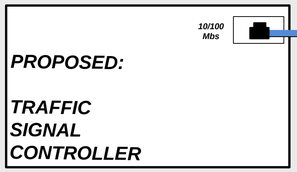
TRAFFIC SIGNAL CABINET ASSEMBLY



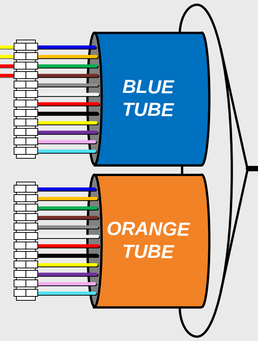
ETHERNET SWITCH PORT DESTINATION

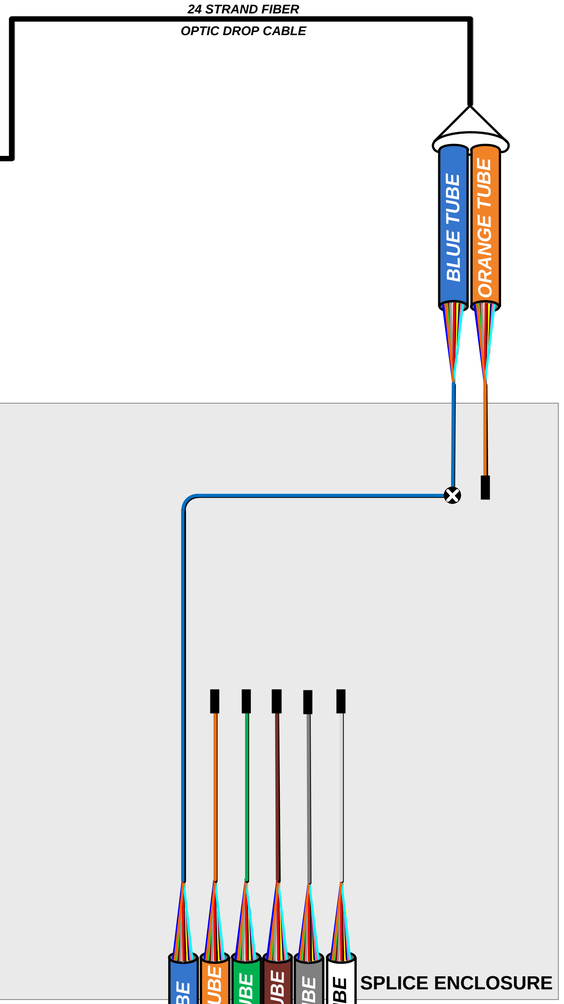
PORT 5: INTERSECTION 0002: CLEVELAND AVE. AT I-670 EB ON RAMP
SEE SHEET 761

PORT 6: INTERSECTION 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.
SEE SHEET 760



PATCH PANEL ENCLOSURE – 24 TERMINATION

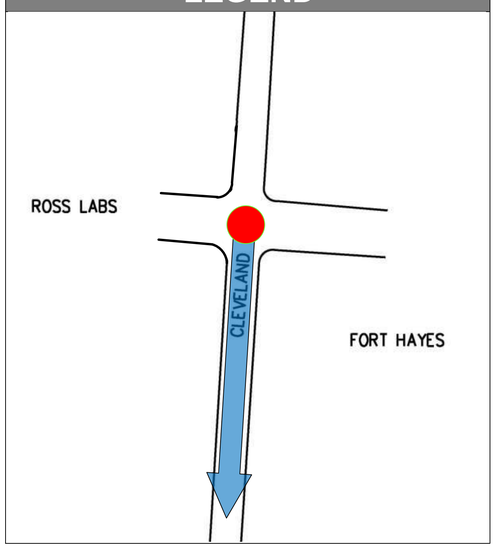




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 760

INTERSECTION 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.

INTERSECTION 0007

REFER TO SHEET 77 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0007: CLEVELAND AVE. AT FORT HAYES
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0107: HIGH ST. AT VINE ST.
SEE SHEET 861

PORT 6: INTERSECTION 0024: HIGH ST. AT LONG ST.
SEE SHEET 783

DO NOT CONNECT TO SWITCH
RADIO INSTALLATION FOR FUTURE USE ONLY

SEE SHEET 769

WIRELESS LINK TO INTERSECTION 0009: CHESTNUT ST. AT THIRD ST.

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0005: HIGH ST. AT NATIONWIDE BLVD.

SEE SHEET 765

BLUE TUBE ***ORANGE TUBE*** ***GREEN TUBE*** ***BROWN TUBE*** ***SLATE TUBE*** ***WHITE TUBE***

BLUE TUBE ***ORANGE TUBE***

SPLICE ENCLOSURE

BLUE TUBE ***ORANGE TUBE*** ***GREEN TUBE*** ***BROWN TUBE*** ***SLATE TUBE*** ***WHITE TUBE***

144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

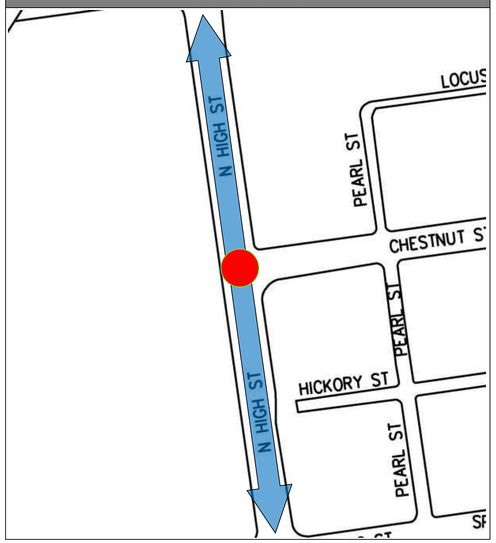
SEE SHEET 774

INTERSECTION 0015: HIGH ST. AT SPRING ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0008

REFER TO SHEET 79 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0008: CHESTNUT ST. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0010: CHESTNUT ST. AT FOURTH ST.
SEE SHEET 770

PORT 4: INTERSECTION 0016: SPRING ST. AT THIRD ST.
SEE SHEET 775

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

DO NOT CONNECT TO SWITCH
RADIO INSTALLATION FOR FUTURE USE ONLY

SEE SHEET 768
WIRELESS LINK TO INTERSECTION 0008: CHESTNUT ST. AT HIGH ST.

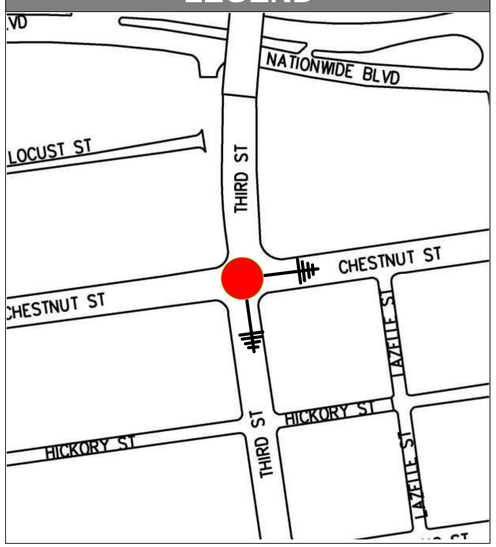
SEE SHEET 770
WIRELESS LINK TO INTERSECTION 0010: CHESTNUT ST. AT FOURTH ST.

SEE SHEET 775
WIRELESS LINK TO INTERSECTION 0016: SPRING ST. AT THIRD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0009
REFER TO SHEET 80 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0009: CHESTNUT ST. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 0017: FOURTH ST. AT SPRING ST.
SEE SHEET 776

PORT 3: INTERSECTION 0009: CHESTNUT ST. AT THIRD ST.
SEE SHEET 769

PORT 4: INTERSECTION 0006: FOURTH ST. AT NAGHTEN ST. & MT. VERNON AVE. & NATIONWIDE BLVD
SEE SHEET 766

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

WIRELESS LINK TO INTERSECTION 0006: FOURTH ST. AT NAGHTEN ST. & MT. VERNON AVE. & NATIONWIDE BLVD

SEE SHEET 766

SEE SHEET 769

WIRELESS LINK TO INTERSECTION 0009: CHESTNUT ST. AT THIRD ST.

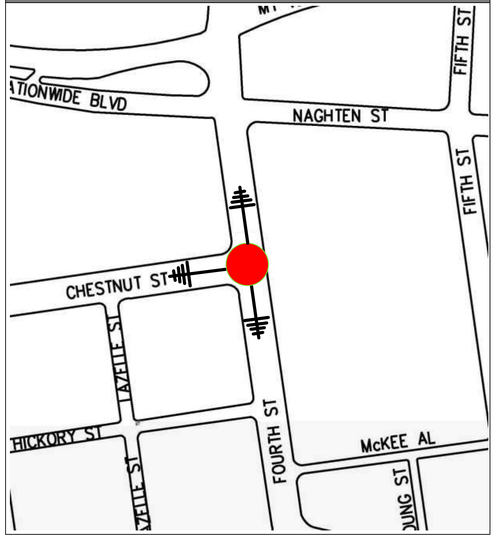
SEE SHEET 776

WIRELESS LINK TO INTERSECTION 0017: FOURTH ST. AT SPRING ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0010

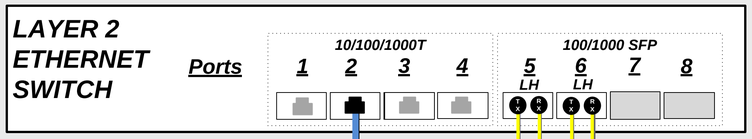
REFER TO SHEET 76 FOR CONSTRUCTION PLAN DETAILS

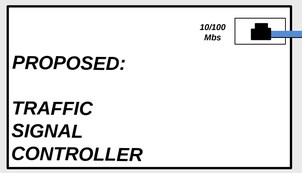
PID NUMBER 13034
2762 DR. E

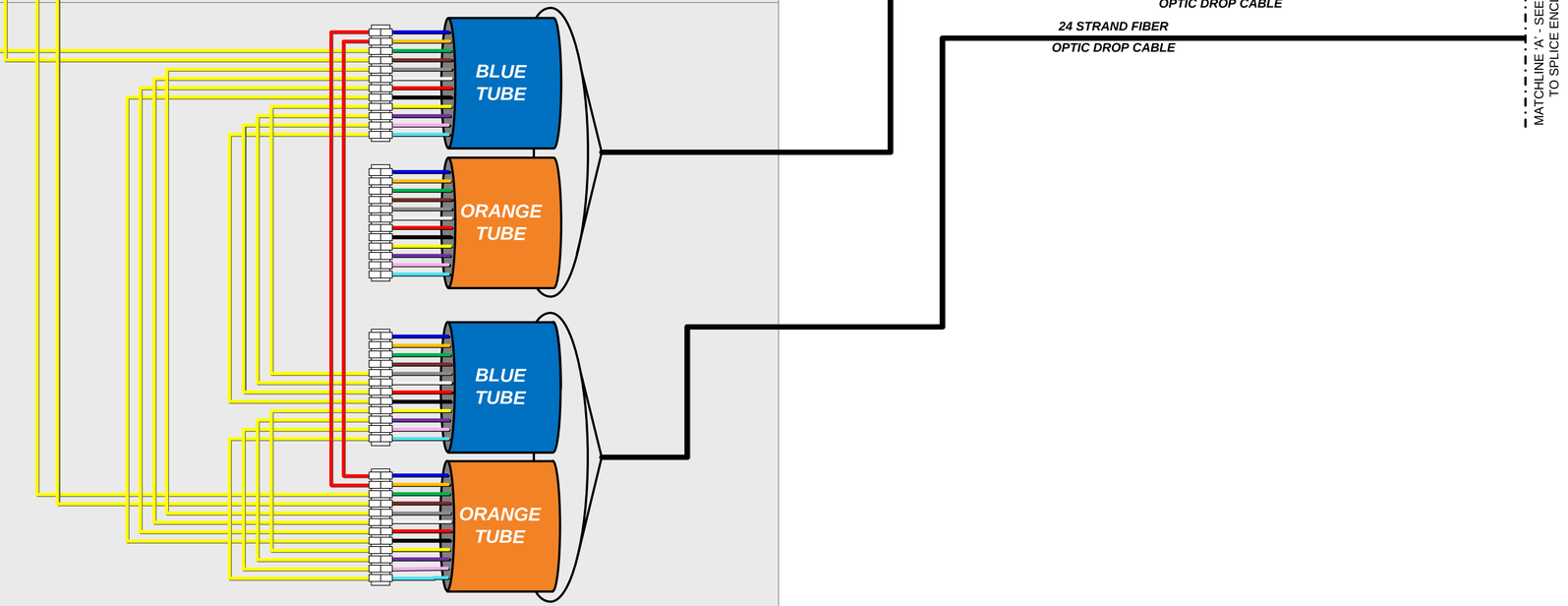
INTERSECTION 0010: CHESTNUT ST. AT FOURTH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY







PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

ETHERNET SWITCH PORT DESTINATION

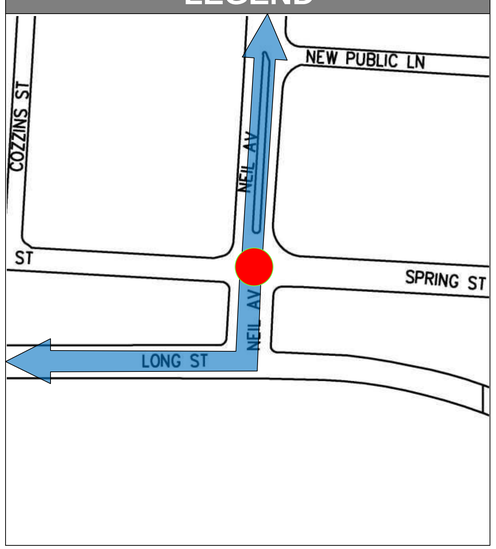
PORT 5: INTERSECTION 0005: HIGH ST. AT NATIONWIDE BLVD.
SEE SHEET 765

PORT 6: EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/DUBLIN RD.
SEE SHEET 1102

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND

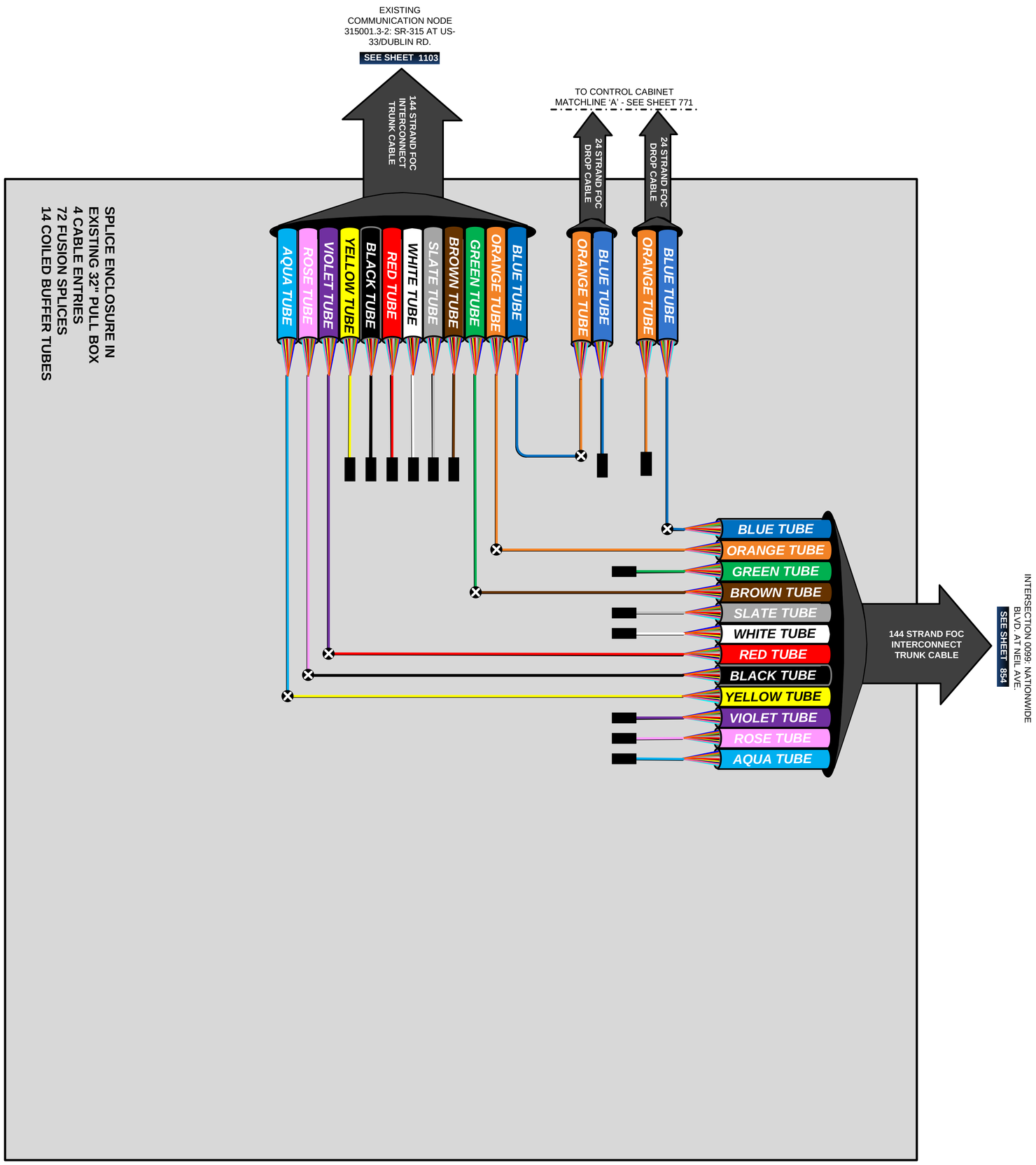


INTERSECTION 0012
REFER TO SHEET 81 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0012 & 0032: LONG ST. AND SPRING ST. AT NEIL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



INTERSECTION 0012

771A / 1107	CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)	INTERSECTION 0012 & 0032: LONG ST. AND SPRING ST. AT NEIL AVE. COMMUNICATIONS DIAGRAM	PID NUMBER 13034 2762 DR. E

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

10/100 Mbs

TRAFFIC SIGNAL CONTROLLER

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0014: FRONT ST. AT SPRING ST.
SEE SHEET 773

PORT 4: INTERSECTION 0109: SPRING ST. AT WEST ST.
SEE SHEET 863

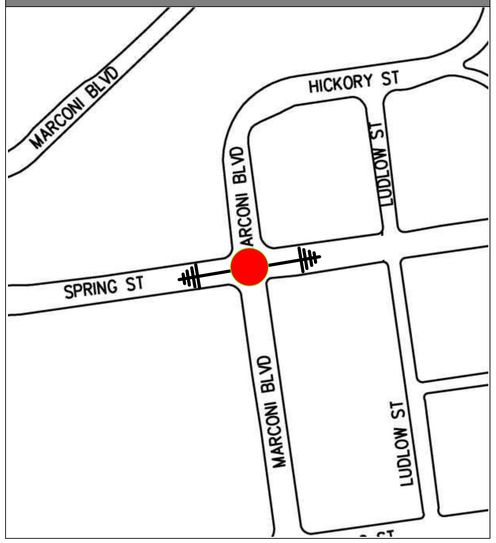
SEE SHEET 863
INTERSECTION 0109: SPRING ST. AT WEST ST.

SEE SHEET 773
INTERSECTION 0014: FRONT ST. AT SPRING ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0013

REFER TO SHEET 82 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0013: MARCONI BLVD. AT SPRING ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 0013: MARCONI BLVD. AT SPRING ST.
SEE SHEET 772

PORT 3: INTERSECTION 0108: FRONT ST. AT NATIONWIDE GARAGE
SEE SHEET 862

PORT 4: INTERSECTION 0023: FRONT ST. AT LONG ST.
SEE SHEET 782

FIBER OPTIC RISER CABLE TO GROUND FLOOR SPLICE ENCLOSURE (TO BE CONNECTED TO FUTURE FIBER INTERCONNECT)

LH

LAYER 2 ETHERNET SWITCH

10/100 Mbs

10/100 Mbs

EXISTING CCTV FIELD CONTROLLER

EXISTING CCTV

COMMUNICATION CENTER AT TOP OF 215 N FRONT ST. BUILDING

SEE SHEET 782

INTERSECTION 0023: FRONT ST. AT LONG ST.

INTERSECTION 0108: FRONT ST. AT NATIONWIDE GARAGE

SEE SHEET 862

INTERSECTION 0013: MARCONI BLVD. AT SPRING ST.

SEE SHEET 772

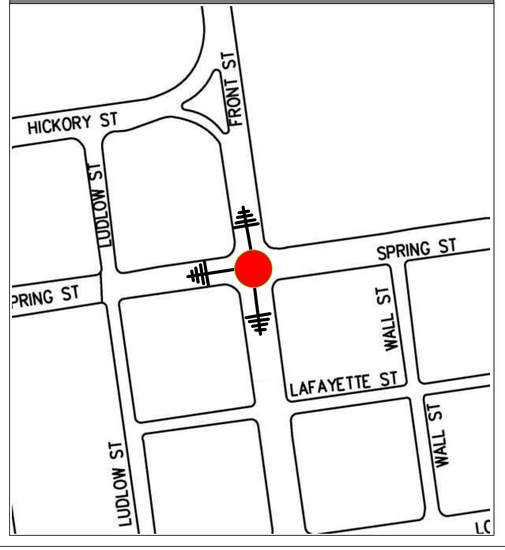
SEE SHEET 782

INTERSECTION 0023: FRONT ST. AT LONG ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0014

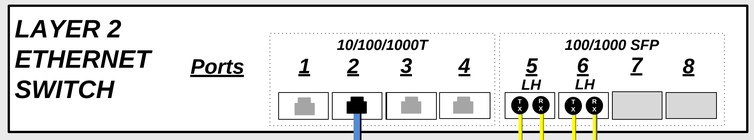
REFER TO SHEET 83 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0014: FRONT ST. AT SPRING ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

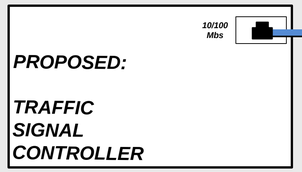
TRAFFIC SIGNAL CABINET ASSEMBLY



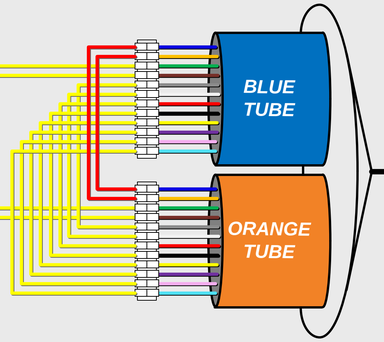
ETHERNET SWITCH PORT DESTINATION

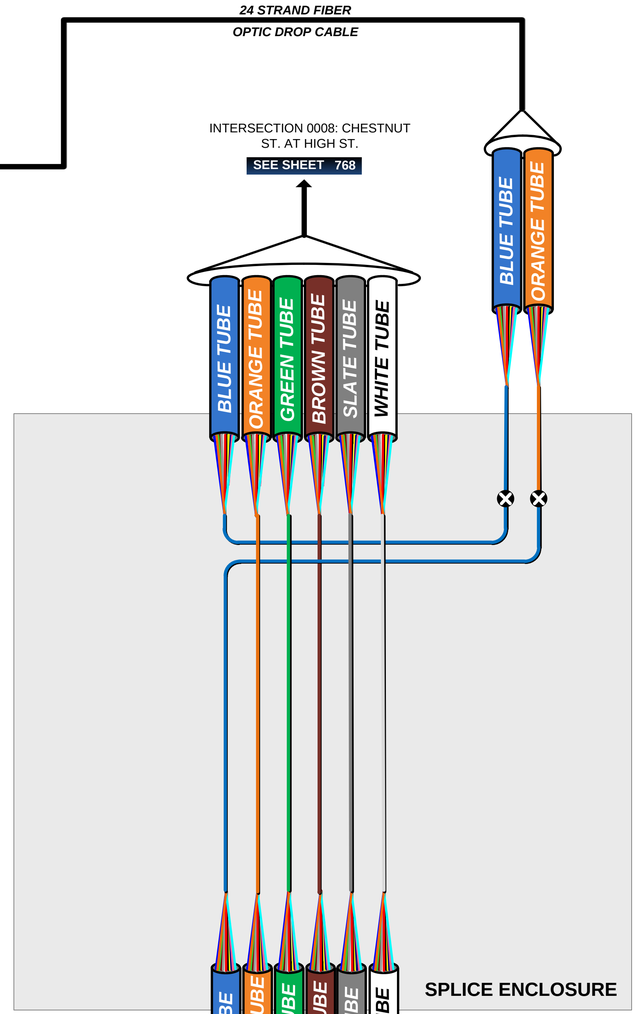
PORT 5: INTERSECTION 0005: HIGH ST. AT NATIONWIDE BLVD.
SEE SHEET 765

PORT 6: INTERSECTION 0024: HIGH ST. AT LONG ST.
SEE SHEET 783



PATCH PANEL ENCLOSURE – 24 TERMINATION

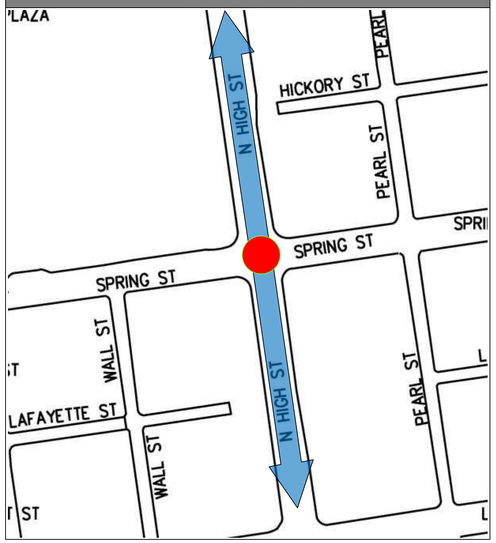




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 783

INTERSECTION 0024: HIGH ST. AT LONG ST.

INTERSECTION 0015

REFER TO SHEET 85 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0015: HIGH ST. AT SPRING ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0009: CHESTNUT ST. AT THIRD ST.
SEE SHEET 769

PORT 4: INTERSECTION 0017: FOURTH ST. AT SPRING ST.
SEE SHEET 776

SEE SHEET 769

WIRELESS LINK TO INTERSECTION 0009: CHESTNUT ST. AT THIRD ST.

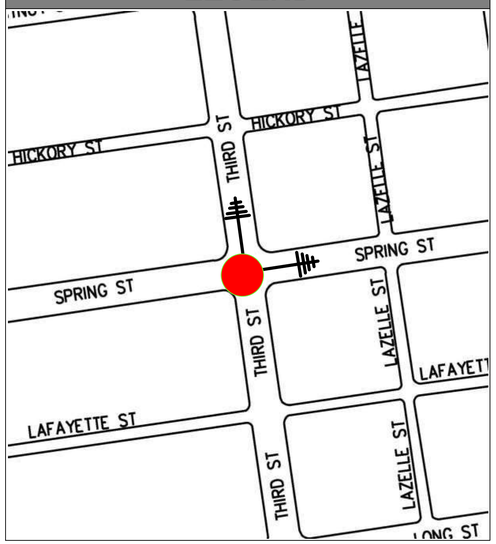
SEE SHEET 776

WIRELESS LINK TO INTERSECTION 0017: FOURTH ST. AT SPRING ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0016

REFER TO SHEET 87 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0016: SPRING ST. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

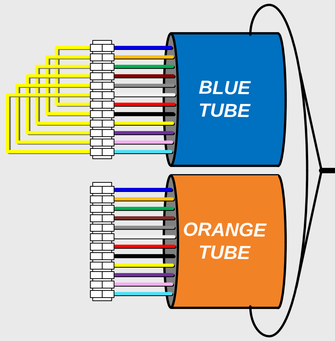
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 0016: SPRING ST. AT THIRD ST.
SEE SHEET 775

PORT 3: INTERSECTION 0010: CHESTNUT ST. AT FOURTH ST.
SEE SHEET 770

PORT 4: INTERSECTION 0026: FOURTH ST. AT LONG. ST.
SEE SHEET 785



PATCH PANEL ENCLOSURE – 24 TERMINATION

WIRELESS LINK TO INTERSECTION 0010: CHESTNUT ST. AT FOURTH ST.

SEE SHEET 770

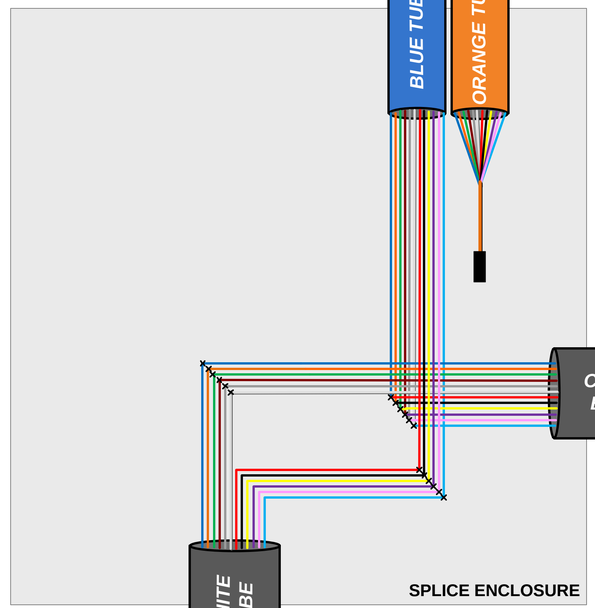
SEE SHEET 775

WIRELESS LINK TO INTERSECTION 0016: SPRING ST. AT THIRD ST.

24 STRAND FIBER OPTIC DROP CABLE

SEE SHEET 785

WIRELESS LINK TO INTERSECTION 0026: FOURTH ST. AT LONG. ST.



SEE SHEET 778

INTERSECTION 0019: CLEVELAND AVE. AT SPRING ST.

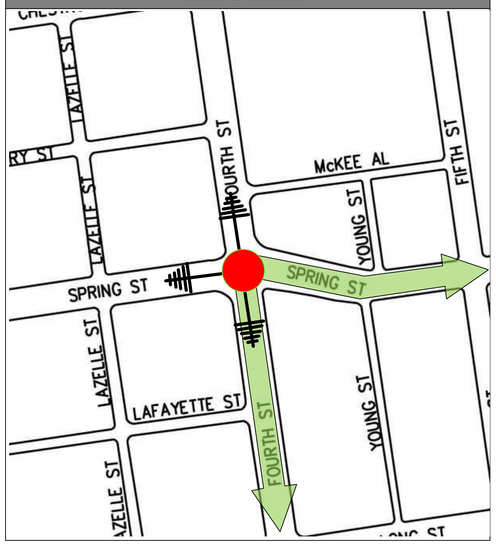
SEE SHEET 799

INTERSECTION 0042: BROAD ST. AT FOURTH ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- CTSS FIBER
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0017

REFER TO SHEET 86 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0017: FOURTH ST. AT SPRING ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0027: GRANT AVE. AT LONG ST.
SEE SHEET 786

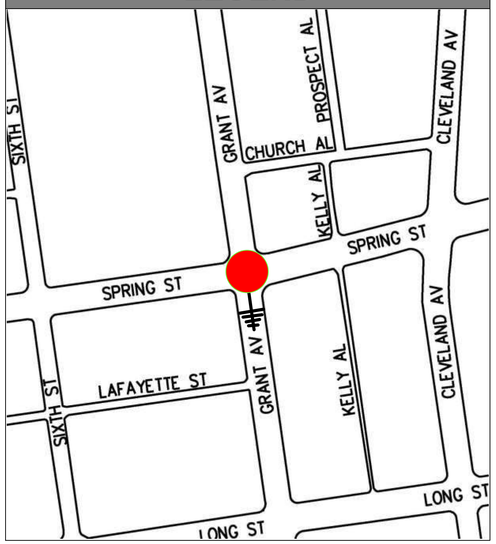
SEE SHEET 786

WIRELESS LINK TO INTERSECTION 0027: GRANT AVE. AT LONG ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0018

REFER TO SHEET 88 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0018: GRANT AVE. AT SPRING ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0003: CLEVELAND AVE. AT MT. VERNON AVE.
SEE SHEET 762

PORT 6: INTERSECTION 0079: GRANT AVE. AT E. MAIN ST.
SEE SHEET 835

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

CITYNET WHITE BUFFER TUBE

SEE SHEET 776

INTERSECTION 0017: FOURTH ST. AT SPRING ST.

SPLICE ENCLOSURE

CITYNET WHITE BUFFER TUBE

SEE SHEET 804

INTERSECTION 0047: BROAD ST. AT WASHINGTON AVE.

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0086: CLEVELAND AVE. AT NAGHTEN ST.

SEE SHEET 842

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

FIBER CAPPED AND COILED FOR FUTURE CONNECTION

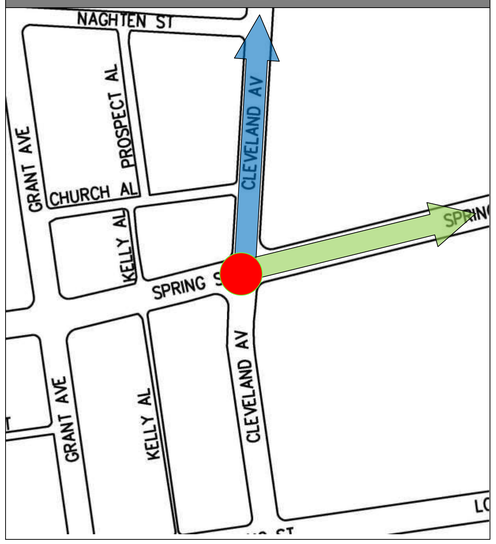
144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0019

REFER TO SHEET 90 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0019: CLEVELAND AVE. AT SPRING ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0029: LONG ST. AT WASHINGTON AVE.
SEE SHEET 788

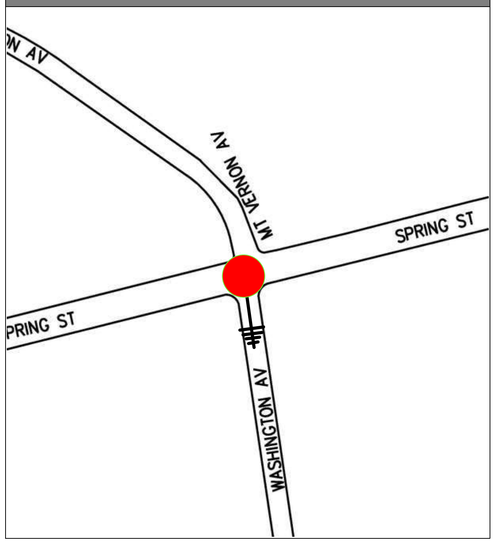
SEE SHEET 788

WIRELESS LINK TO
INTERSECTION 0029: LONG ST.
AT WASHINGTON AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0020

REFER TO SHEET 92 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0020: SPRING ST. AT WASHINGTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0058: SIXTH ST. AT STATE ST.
SEE SHEET 815

PORT 4: INTERSECTION 0064: FOURTH ST. AT TOWN ST.
SEE SHEET 820

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

SEE SHEET 815

WIRELESS LINK TO INTERSECTION 0058: SIXTH ST. AT STATE ST.

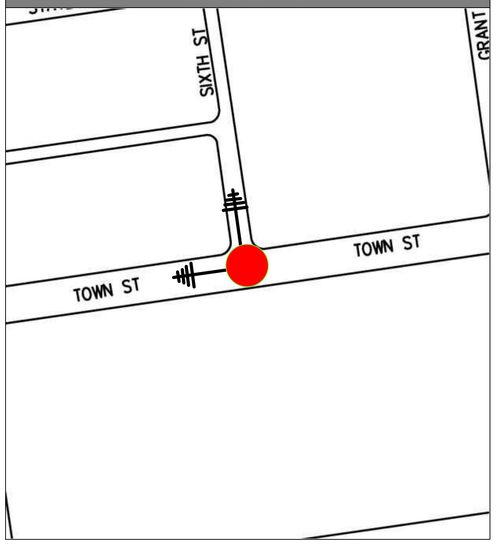
SEE SHEET 820

WIRELESS LINK TO INTERSECTION 0064: FOURTH ST. AT TOWN ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0021

REFER TO SHEET 91 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0021: SIXTH ST. AT TOWN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: COMMUNICATION HUB: 77 N. FRONT ST.
SEE SHEET 1073

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

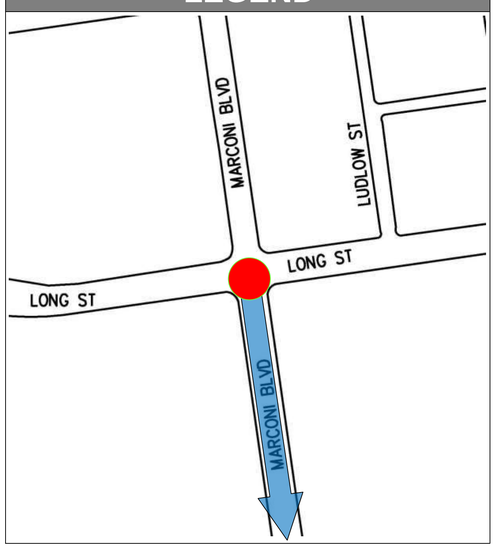
SEE SHEET 1075

SPLICE - 2: MARCONI AT TMC HUB

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0022

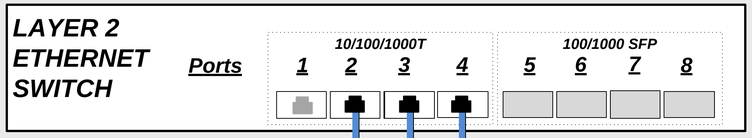
REFER TO SHEET 93 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0022: LONG ST. AT MARCONI BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

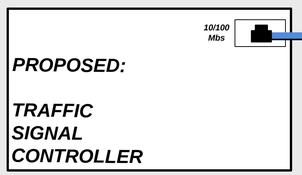
TRAFFIC SIGNAL CABINET ASSEMBLY

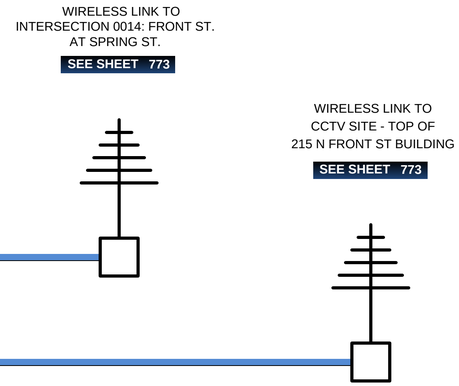


ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0014: FRONT ST. AT SPRING ST.
SEE SHEET 773

PORT 4: CCTV SITE – TOP OF 215 N FRONT ST BUILDING
SEE SHEET 773

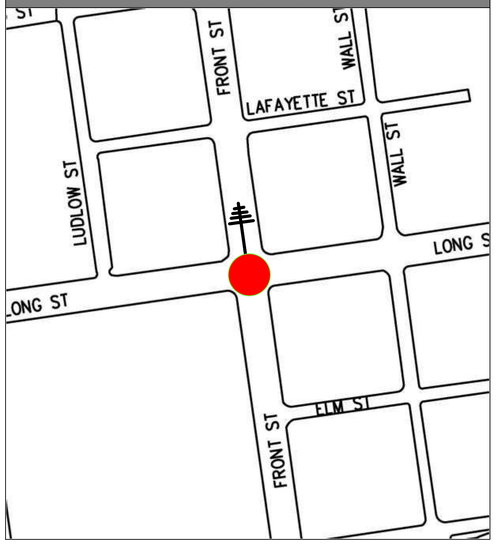




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0023

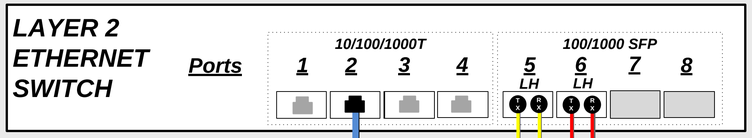
REFER TO SHEET 94 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0023: FRONT ST. AT LONG ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

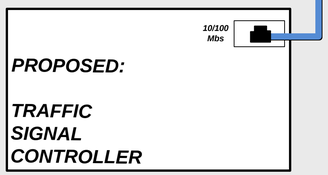
TRAFFIC SIGNAL CABINET ASSEMBLY



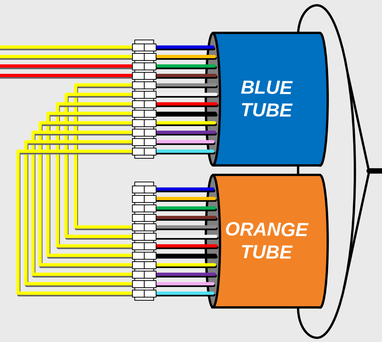
ETHERNET SWITCH PORT DESTINATION

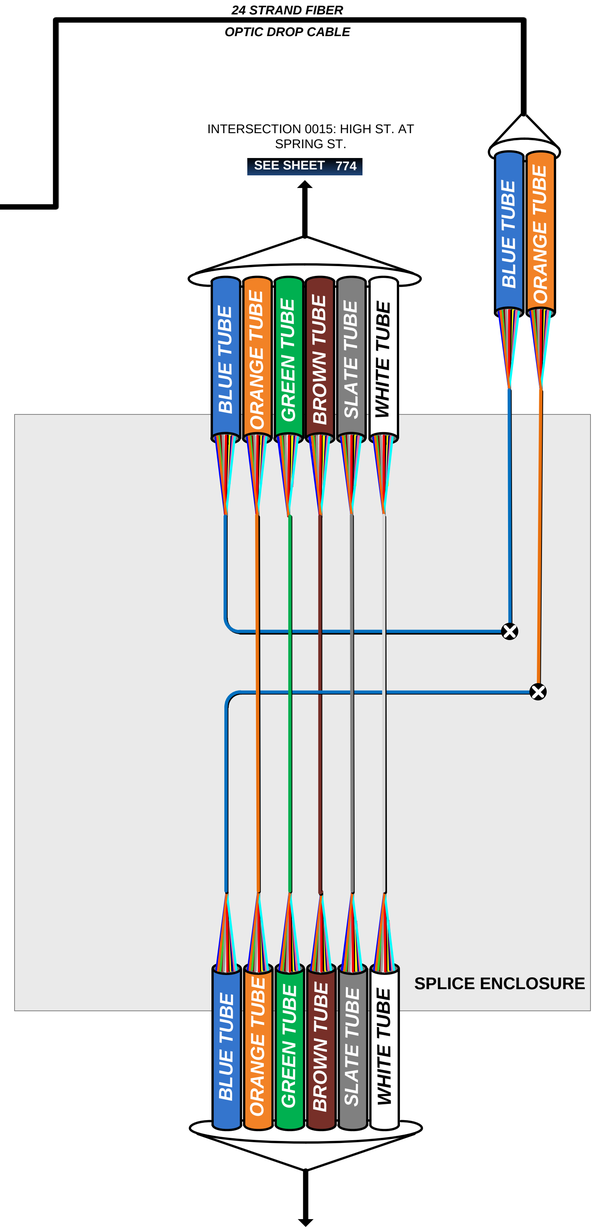
PORT 5: INTERSECTION 0008: CHESTNUT ST. AT HIGH ST.
SEE SHEET 768

PORT 6: INTERSECTION 0015: HIGH ST. AT SPRING ST.
SEE SHEET 774



PATCH PANEL ENCLOSURE – 24 TERMINATION

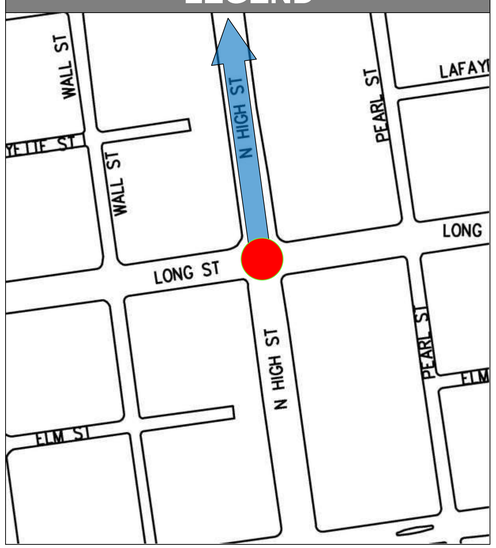




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0024

REFER TO SHEET 97 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0024: HIGH ST. AT LONG ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0026: FOURTH ST. AT LONG. ST.
SEE SHEET 785

PORT 4: INTERSECTION 0035: GAY ST. AT THIRD ST.
SEE SHEET 793

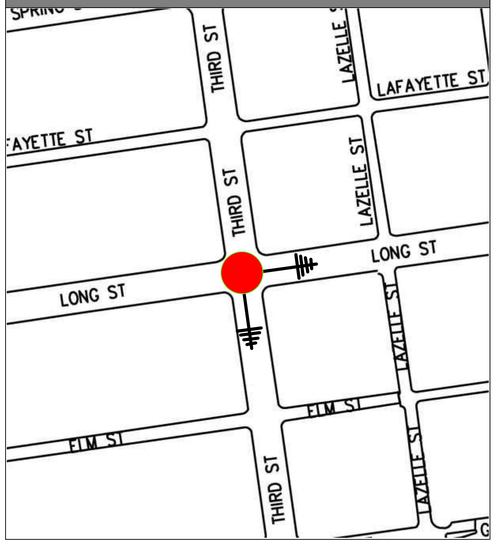
SEE SHEET 785
WIRELESS LINK TO INTERSECTION 0026: FOURTH ST. AT LONG. ST.

SEE SHEET 793
WIRELESS LINK TO INTERSECTION 0035: GAY ST. AT THIRD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0025

REFER TO SHEET 96 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0025: LONG ST. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0017: FOURTH ST. AT SPRING ST.
SEE SHEET 776

PORT 4: INTERSECTION 0025: LONG ST. AT THIRD ST.
SEE SHEET 784

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

24 STRAND DROP

PULLBOX - SPLICE TO DROP CABLE

BUILDING - SPLICE TO RISER CABLE

24 STRAND FOC

LH

LAYER 2 ETHERNET SWITCH

10/100 Mbs

10/100 Mbs

EXISTING CCTV FIELD CONTROLLER

EXISTING CCTV

COMMUNICATION CENTER AT TOP OF 111 N. FOURTH ST. BUILDING

WIRELESS LINK TO INTERSECTION 0017: FOURTH ST. AT SPRING ST.

SEE SHEET 776

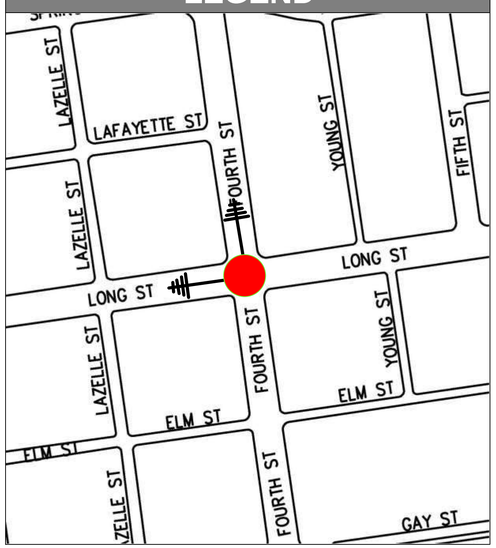
SEE SHEET 784

WIRELESS LINK TO INTERSECTION 0025: LONG ST. AT THIRD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0026

REFER TO SHEET 98 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0026: FOURTH ST. AT LONG. ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0018: GRANT AVE. AT SPRING ST.
SEE SHEET 777

PORT 5: INTERSECTION 0029: LONG ST. AT WASHINGTON AVE.
SEE SHEET 788

PORT 6: INTERSECTION 0036: FOURTH ST. AT GAY ST.
SEE SHEET 794

WIRELESS LINK TO INTERSECTION 0018: GRANT AVE. AT SPRING ST.
SEE SHEET 777

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 787
INTERSECTION 0028: CLEVELAND AVE. AT LONG ST.

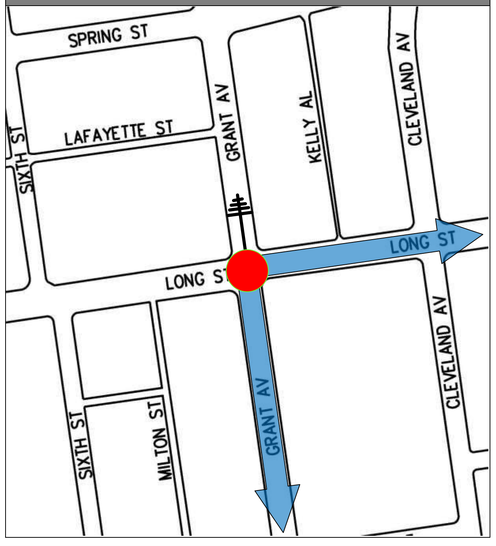
SPLICE ENCLOSURE

SEE SHEET 795
INTERSECTION 0038: GAY ST. AT GRANT AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0027

REFER TO SHEET 101 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

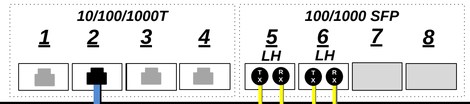
INTERSECTION 0027: GRANT AVE. AT LONG ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports



ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0030: LONG ST. AT JEFFERSON AVE.
SEE SHEET 789

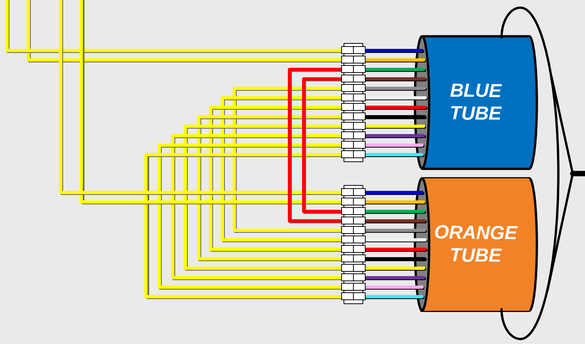
PORT 6: INTERSECTION 0038: GAY ST. AT GRANT AVE.
SEE SHEET 795

PROPOSED:

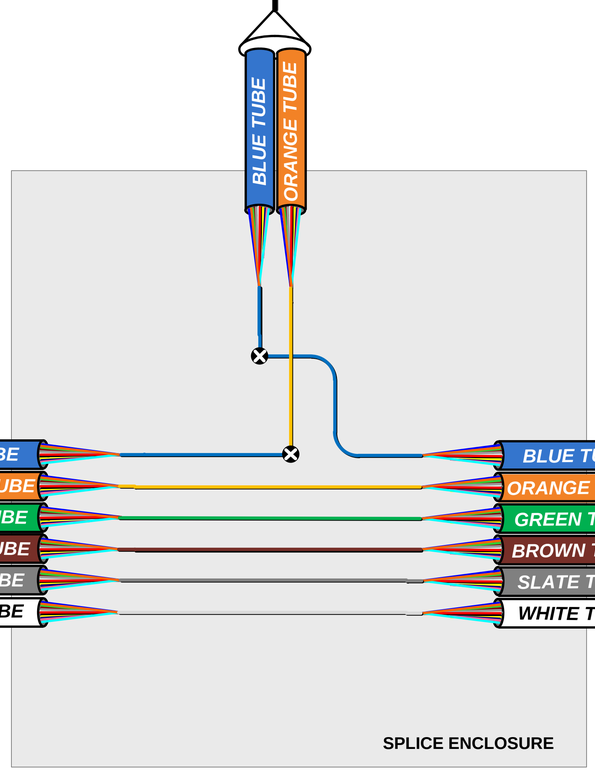
TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



SPLICE ENCLOSURE

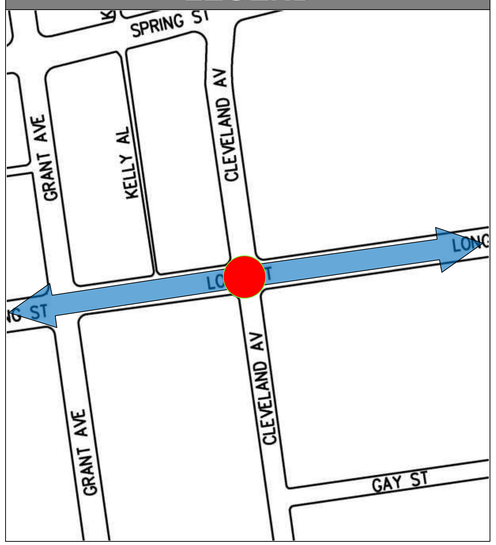
SEE SHEET 786
INTERSECTION 0027:
GRANT AVE. AT LONG ST.

SEE SHEET 788
INTERSECTION 0029:
LONG ST. AT
WASHINGTON AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0028

REFER TO SHEET 102 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

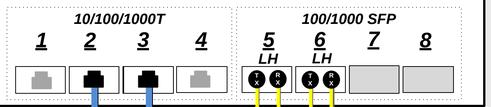
INTERSECTION 0028: CLEVELAND AVE. AT LONG ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports



ETHERNET SWITCH PORT DESTINATION

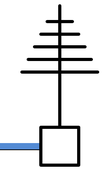
PORT 3: INTERSECTION 0020: SPRING ST. AT WASHINGTON AVE.
SEE SHEET 779

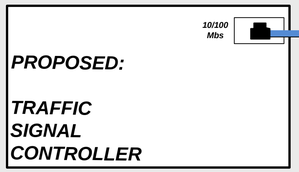
PORT 5: INTERSECTION 0118: LESTER DR. AT LONG ST.
SEE SHEET 990

PORT 6: INTERSECTION 0027: GRANT AVE. AT LONG ST.
SEE SHEET 786

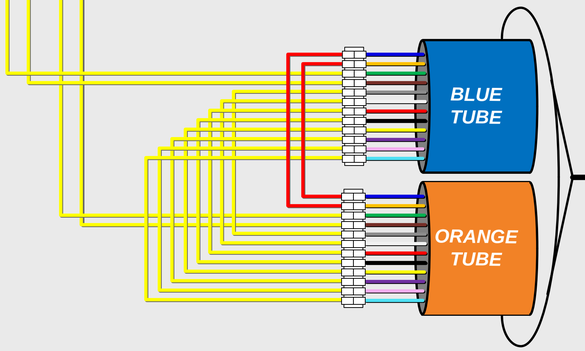
WIRELESS LINK TO
INTERSECTION 0020: SPRING ST.
AT WASHINGTON AVE.

SEE SHEET 779

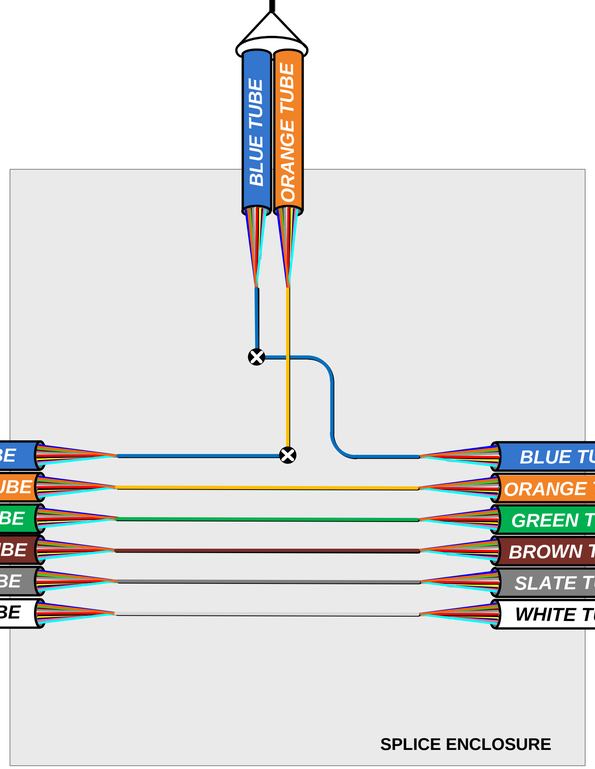




PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



SEE SHEET 787

INTERSECTION 0028:
CLEVELAND AVE. AT LONG ST.

SEE SHEET 789

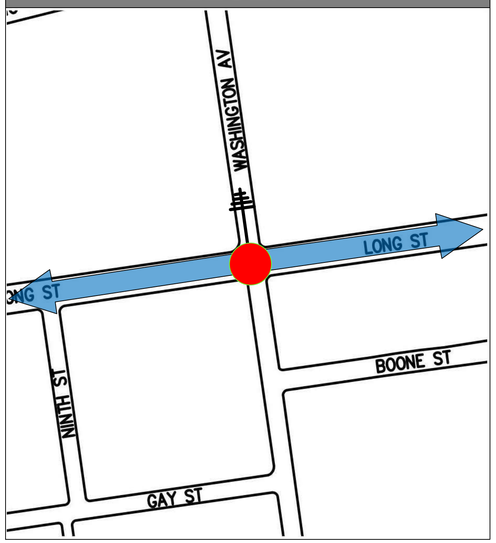
INTERSECTION 0030:
LONG ST. AT
JEFFERSON AVE.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0029

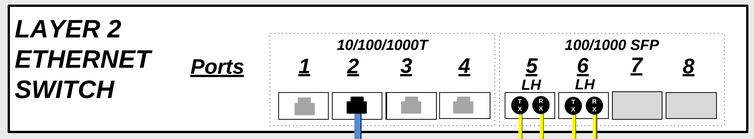
REFER TO SHEET 99 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 0029: LONG ST. AT WASHINGTON AVE.
COMMUNICATIONS DIAGRAM

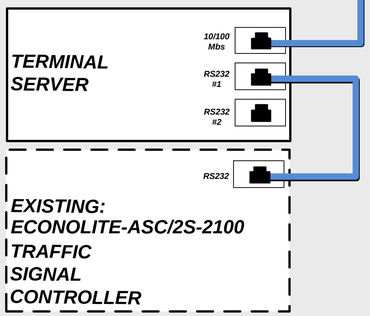
TRAFFIC SIGNAL CABINET ASSEMBLY

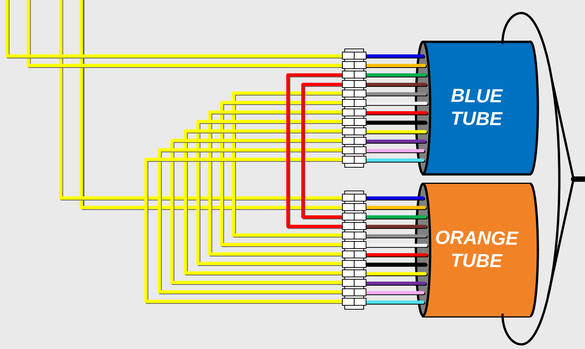


ETHERNET SWITCH PORT DESTINATION

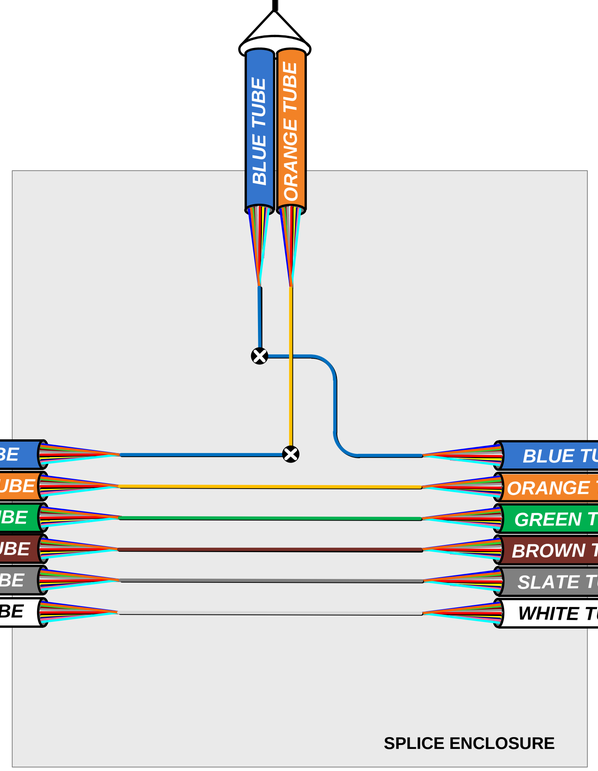
PORT 5: ELIJAH PIERCE DR. AT LONG ST. (FUTURE)
SEE SHEET 990A

PORT 6: INTERSECTION 0028: CLEVELAND AVE. AT LONG ST.
SEE SHEET 787





24 STRAND FIBER OPTIC DROP CABLE



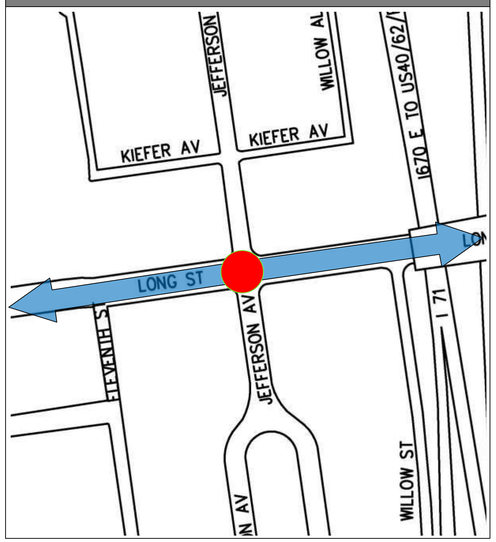
SEE SHEET 788
INTERSECTION 0029: LONG ST. AT WASHINGTON AVE.

SEE SHEET 990
INTERSECTION 0118: LESTER DR. AT LONG ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0030
REFER TO SHEET 199 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0030: LONG ST. AT JEFFERSON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0039: BROAD ST. AT CIVIC CENTER DR. & MARCONI BLVD.
SEE SHEET 796

PORT 6: INTERSECTION 0073: MAIN ST. AT SECOND ST.
SEE SHEET 829

PORT 7: INTERSECTION 0068: FRONT ST. AT RICH ST.
SEE SHEET 824

TERMINAL SERVER
- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER
- RS232

CCTV FIELD BOX
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

COMPOSITE CCTV CABLE → PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE → MATCHLINE 'A' - SEE SHEET 790A TO SPLICE ENCLOSURE

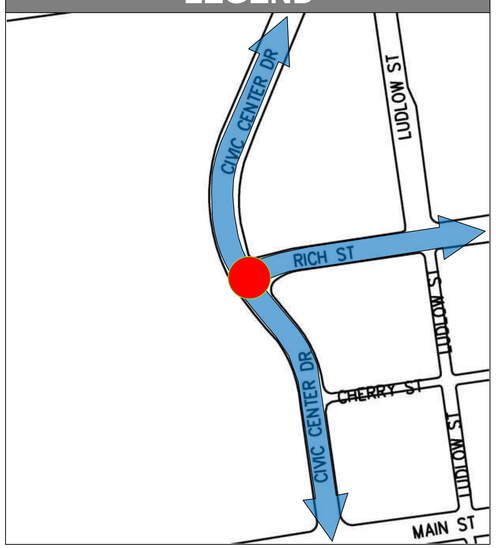
BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0031

REFER TO SHEET 103 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0031: CIVIC CENTER DR. & SECOND ST. AT RICH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 0039: BROAD ST. AT
CIVIC CENTER DR. & MARCONI BLVD.

SEE SHEET 796

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 790

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 824
INTERSECTION 0066:
FRONT ST. AT RICH ST.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SPLICE ENCLOSURE IN
EXISTING 32" PULL BOX
5 CABLE ENTRIES
132 FUSION SPLICES
5 COILED BUFFER TUBES
5 BUFFER TUBES PASSED THROUGH UNSPLICED

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 829
INTERSECTION 0073:
MAIN ST. AT SECOND ST.

PID NUMBER 13034
2762 DR. E

INTERSECTION 0031: CIVIC CENTER DR. & SECOND ST. AT RICH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 0031

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 6 7 LH 8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0040: BROAD ST. AT FRONT ST.
SEE SHEET 797

PORT 5: FUTURE CONNECTION
PORT 6: FUTURE CONNECTION

PORT 7: INTERSECTION 0093: BROAD ST. AT N. HIGH ST.
SEE SHEET 849

PORT 8: COMMUNICATION HUB: 77 N. FRONT ST.
SEE SHEET 1073

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 791A

SEE SHEET 797

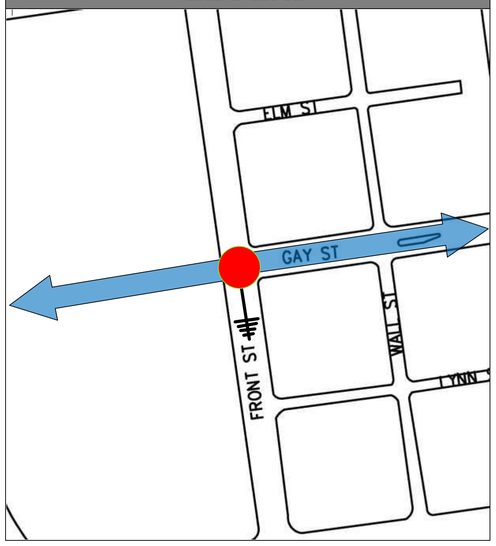
WIRELESS LINK TO INTERSECTION 0040: BROAD ST. AT FRONT ST.

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0033

REFER TO SHEET 104 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0033: FRONT ST. AT GAY ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

SPLICE ENCLOSURE IN EXISTING 32" PULL BOX
7 CABLE ENTRIES
192 FUSION SPLICES
20 COILED BUFFER TUBES

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 791

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

COMMUNICATION HUB: 120
W. GAY ST.
SEE SHEET 1073

288 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

DROP CABLE TO 77 N. FRONT ST
D.o.T. COMMUNICATIONS ROOM

144 STRAND FOC INTERCONNECT TRUNK CABLE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

INTERSECTION 0034:
GAY ST. AT HIGH ST.
SEE SHEET 792

INTERSECTION 0033

PID NUMBER 13034
2762 DR. E

INTERSECTION 0033: FRONT ST. AT GAY ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6 LH	7 LH	8 LH

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 7: INTERSECTION 0055: HIGH ST. AT STATE ST.
SEE SHEET 812

PORT 8: COMMUNICATION HUB: 77 N. FRONT ST.
SEE SHEET 1073

BUILDING - SPLICE TO RISER CABLE

24 STRAND RISER CABLE THROUGH BUILDING SPACE

LH

LAYER 2 ETHERNET SWITCH

10/100 Mbs

10/100 Mbs

EXISTING CCTV FIELD CONTROLLER

EXISTING CCTV

COMMUNICATION CENTER AT TOP OF 51 N HIGH ST. BUILDING

24 STRAND FOC

24 STRAND DROP

PULLBOX - SPLICE TO DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 792A

BLUE TUBE

ORANGE TUBE

BLUE TUBE

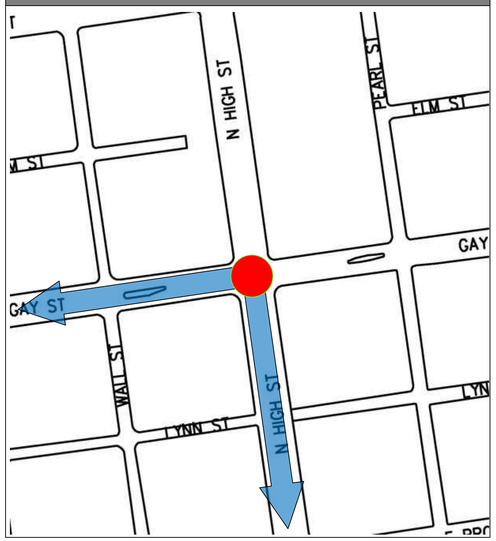
ORANGE TUBE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



PID NUMBER 13034
2762 DR. E

INTERSECTION 0034: GAY ST. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

792
1107

INTERSECTION 0034

REFER TO SHEET 105 FOR CONSTRUCTION PLAN DETAILS

SEE SHEET 783 INTERSECTION 0024: HIGH ST. AT LONG ST.

SPLICE ENCLOSURE IN EXISTING 32" PULL BOX
7 CABLE ENTRIES
444 FUSION SPLICES

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 792

24 STRAND FOC DROP CABLE
- BLUE TUBE
- ORANGE TUBE

24 STRAND FOC DROP CABLE
- BLUE TUBE
- ORANGE TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

288 STRAND FOC DROP CABLE
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

DROP CABLE TO D.o.T. PEDESTAL
CABINET GAY ST. AT HIGH ST.

INTERSECTION 0033:
FRONT ST. AT GAY ST.
SEE SHEET 791

144 STRAND FOC INTERCONNECT TRUNK CABLE
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

INTERSECTION 0035:
GAY ST. AT THIRD ST.
SEE SHEET 793

144 STRAND FOC INTERCONNECT TRUNK CABLE
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

SEE SHEET 849 INTERSECTION 0093: BROAD ST. AT N. HIGH ST.

PID NUMBER 13034
2762 DR. E

INTERSECTION 0034: GAY ST. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

792A
1107

INTERSECTION 0034

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7 LH, 8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0025: LONG ST. AT THIRD ST.
SEE SHEET 784

PORT 5: INTERSECTION 0038: GAY ST. AT GRANT AVE.
SEE SHEET 795

PORT 6: COMMUNICATION HUB: 77 N. FRONT ST.
SEE SHEET 1073

PORT 7: 51 E BROAD ST COMM CENTER (CCTV)
THIS SHEET

WIRELESS LINK TO INTERSECTION 0098: LYNN ALLEY AT THIRD ST.
SEE SHEET 853

WIRELESS LINK TO INTERSECTION 0025: LONG ST. AT THIRD ST.
SEE SHEET 784

EXISTING CCTV

TERMINAL SERVER
10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

DO NOT CONNECT TO SWITCH
RADIO INSTALLATION FOR FUTURE USE ONLY

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

PWR/ANALOG
EXISTING CCTV FIELD CONTROLLER
10/100 Mbs

LH
LAYER 2 ETHERNET SWITCH
10/100 Mbs

COMMUNICATION CENTER AT TOP OF 51 E. BROAD ST. BUILDING

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

PATCH PANEL ENCLOSURES
(2) - 24 TERMINATION

BLUE TUBE
ORANGE TUBE

NOTES:
1. EXISTING CCTV AND FIELD CONTROLLER AT THIS SITE INSTALLED BY FRA-CCTV-UPGRADE PROJECT.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 792
INTERSECTION 0034: GAY ST. AT HIGH ST.

SEE SHEET 794
INTERSECTION 0036: FOURTH ST. AT GAY ST.

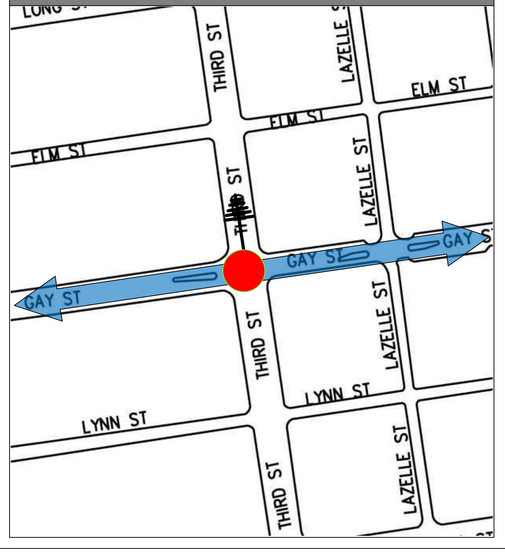
SPLICE ENCLOSURE

144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
SEE SHEET 759 FOR TYPICAL FIBER SPLICING DIAGRAMS

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0035

REFER TO SHEET 107 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0035: GAY ST. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0027: GRANT AVE. AT LONG ST.
SEE SHEET 786

PORT 6: COMMUNICATION HUB: 77 N. FRONT ST.
SEE SHEET 1073

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

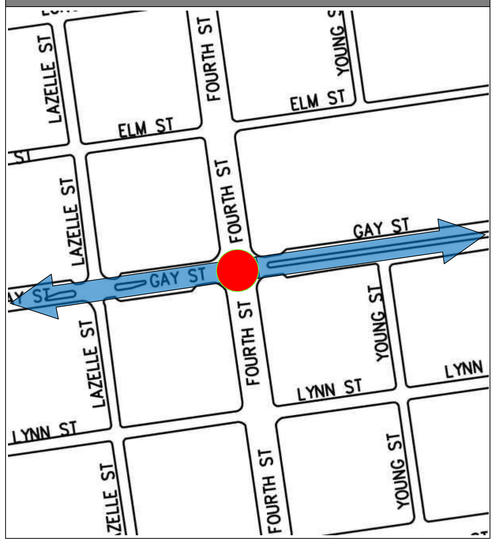
SEE SHEET 793
INTERSECTION 0035: GAY ST. AT THIRD ST.

SEE SHEET 795
INTERSECTION 0038: GAY ST. AT GRANT AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0036

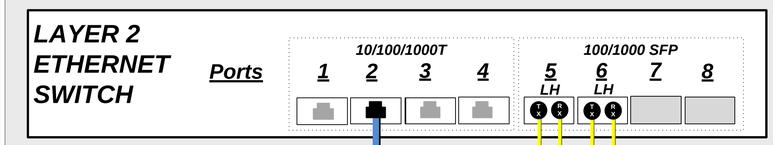
REFER TO SHEET 110 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0036: FOURTH ST. AT GAY ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

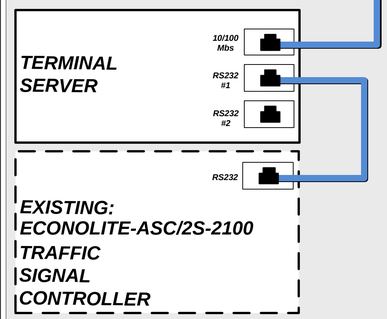
TRAFFIC SIGNAL CABINET ASSEMBLY

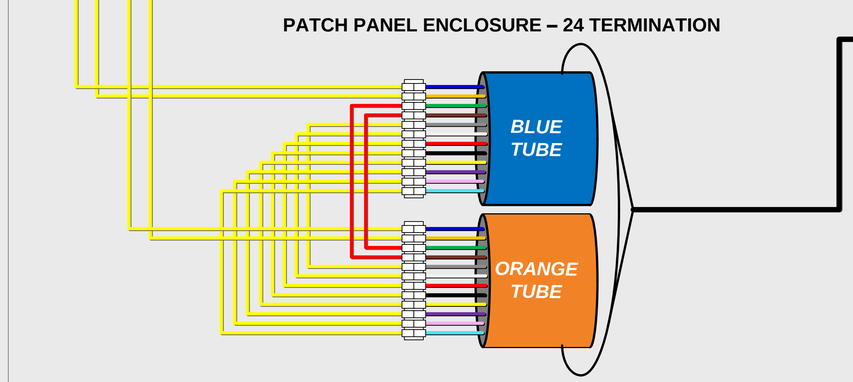


ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0028: CLEVELAND AVE. AT LONG ST.
SEE SHEET 787

PORT 6: INTERSECTION 0035: GAY ST. AT THIRD ST.
SEE SHEET 793





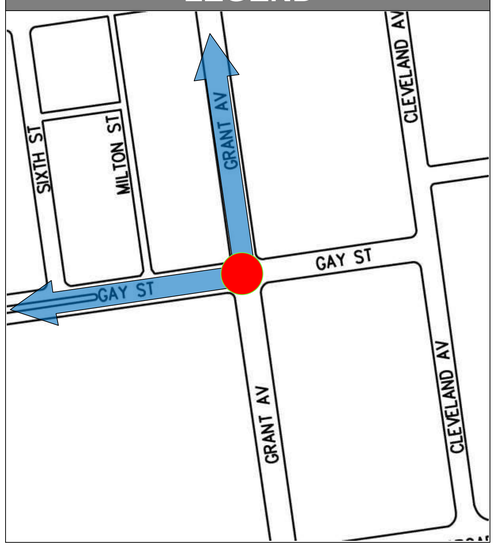
24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 795A

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



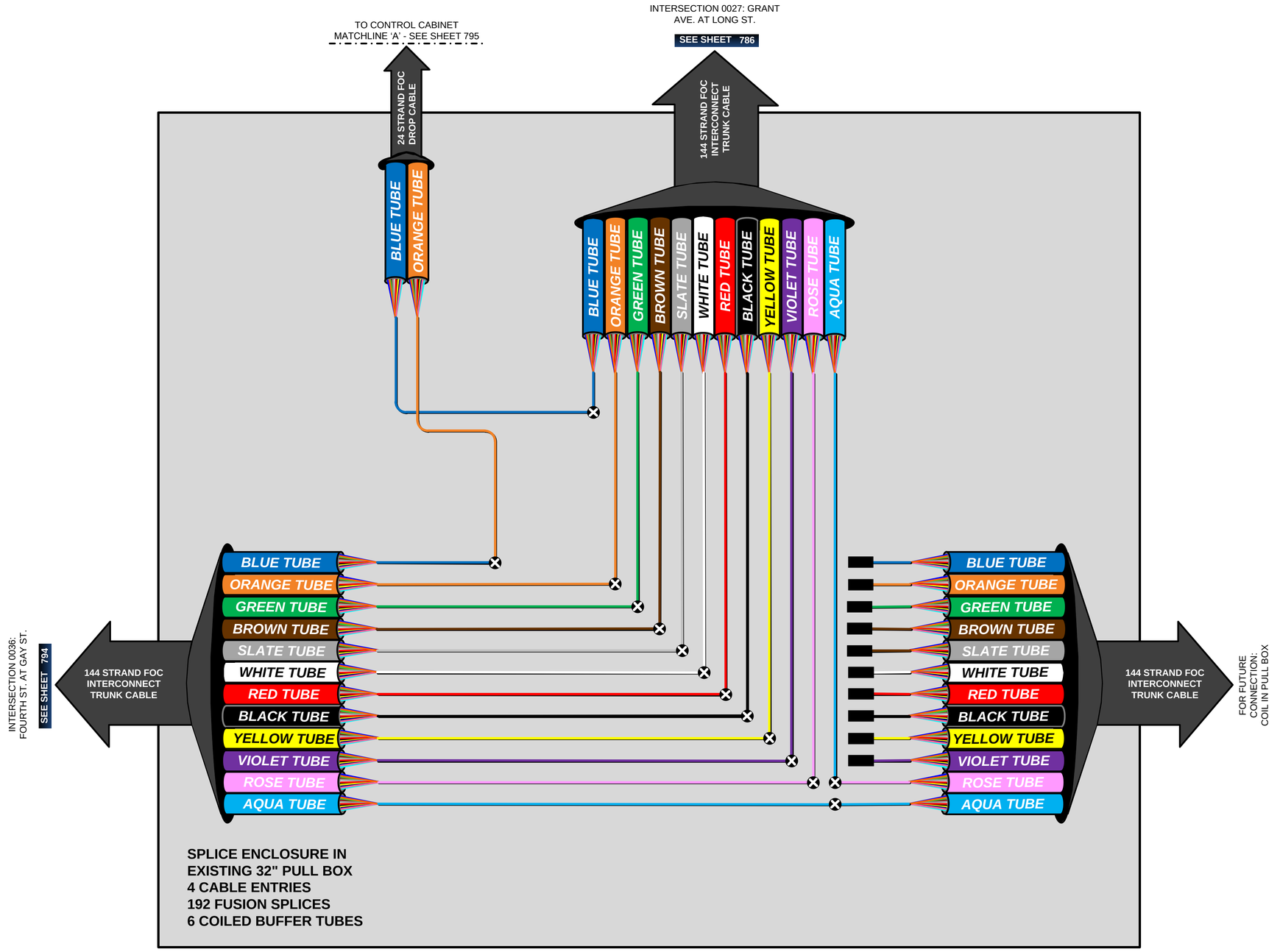
INTERSECTION 0038

REFER TO SHEET 111 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0038: GAY ST. AT GRANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

INTERSECTION 0038: GAY ST. AT GRANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

795A
1107

INTERSECTION 0038

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: COMMUNICATION HUB: 77 N. FRONT ST.
SEE SHEET 1073

PORT 6: INTERSECTION 0031: CIVIC CENTER DR. & SECOND ST. AT RICH ST.
SEE SHEET 790

EXISTING:
ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

SPLICE - 2: MARCONI AT TMC HUB
SEE SHEET 1075

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

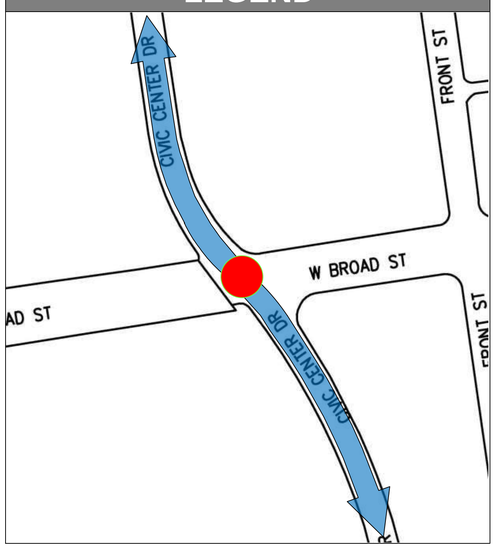
SEE SHEET 790

INTERSECTION 0031: CIVIC CENTER DR. & SECOND ST. AT RICH ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0039

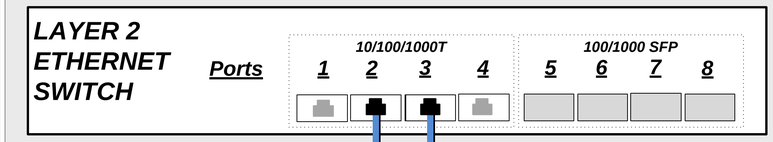
REFER TO SHEET 113 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0039: BROAD ST. AT CIVIC CENTER DR. & MARCONI BLVD.
COMMUNICATIONS DIAGRAM

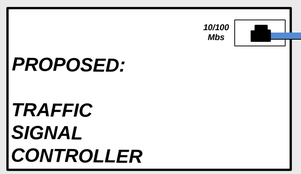
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

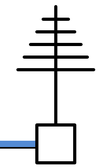
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0033: FRONT ST. AT GAY ST.
SEE SHEET 791





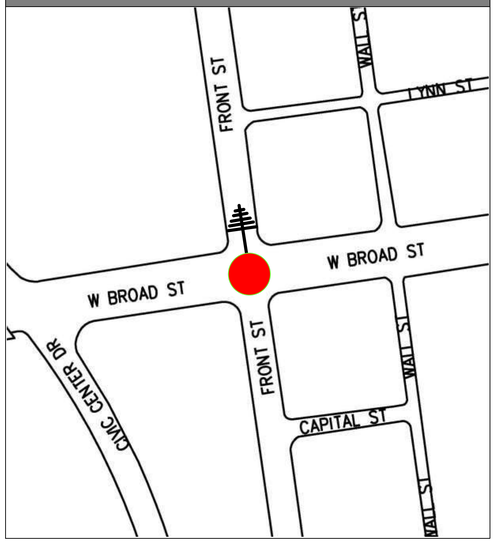
WIRELESS LINK TO
INTERSECTION 0033: FRONT ST.
AT GAY ST.

SEE SHEET 791

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0040

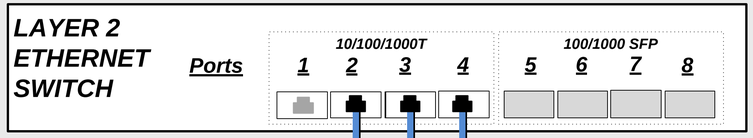
REFER TO SHEET 114 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0040: BROAD ST. AT FRONT ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

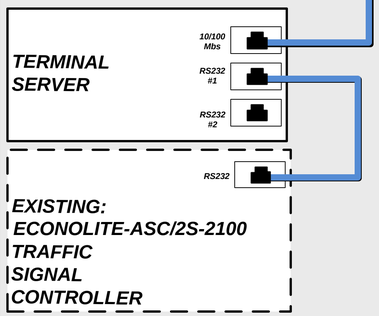
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0098: LYNN ALLEY AT THIRD ST.
SEE SHEET 853

PORT 4: INTERSECTION 0056: STATE ST. AT THIRD ST.
SEE SHEET 813

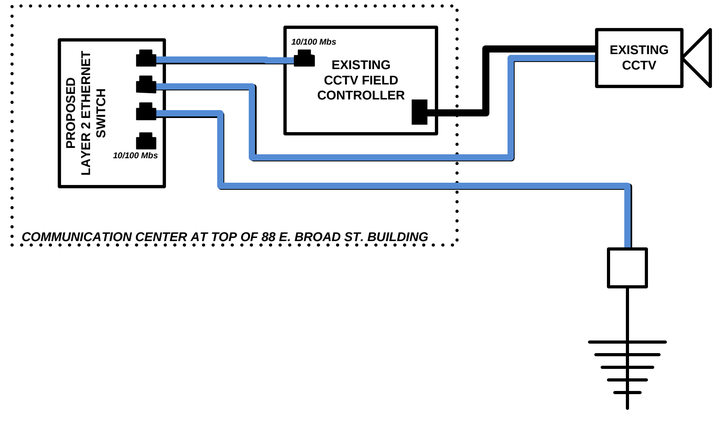


WIRELESS LINK TO
INTERSECTION 0098: LYNN
ALLEY AT THIRD ST.

SEE SHEET 853

SEE SHEET 813

WIRELESS LINK TO
INTERSECTION 0056: STATE ST.
AT THIRD ST.



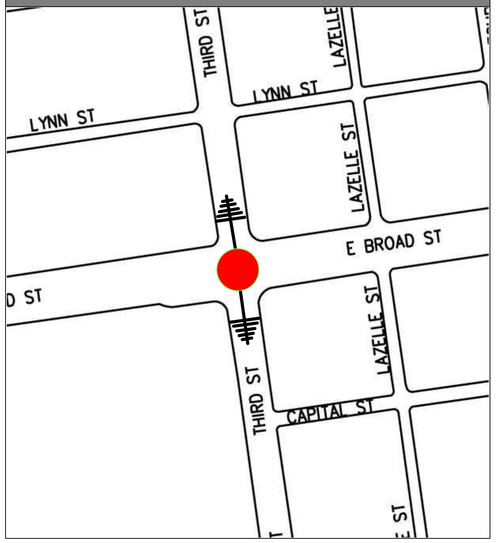
SEE SHEET 813

WIRELESS LINK TO
INTERSECTION 0056: STATE ST.
AT THIRD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0041

REFER TO SHEET 109 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0041: BROAD ST. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6 LH	7 LH	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0043: BROAD ST. AT FIFTH ST.
SEE SHEET 800

PORT 6: INTERSECTION 0045: BROAD ST. AT GRANT AVE.
SEE SHEET 802

PORT 7: EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670
SEE SHEET 1107A

WIRELESS LINK TO INTERSECTION 0043: BROAD ST. AT FIFTH ST.
SEE SHEET 800

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0017: FOURTH ST. AT SPRING ST.
SEE SHEET 776

CITYNET WHITE BUFFER TUBE

BLUE TUBE

ORANGE TUBE

CITYNET WHITE BUFFER TUBE

SEE SHEET 830

INTERSECTION 0074: FRONT ST. AT MAIN ST.

CITYNET WHITE BUFFER TUBE

SEE SHEET 802

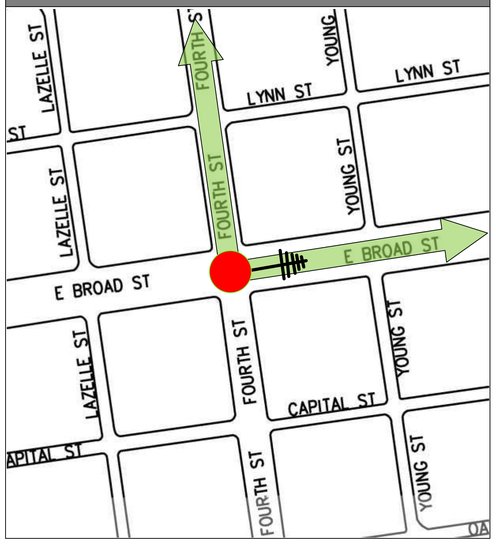
INTERSECTION 0045: BROAD ST. AT GRANT AVE.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0042

REFER TO SHEET 116 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0042: BROAD ST. AT FOURTH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0044: BROAD ST. AT SIXTH ST.
SEE SHEET 801

PORT 4: INTERSECTION 0042: BROAD ST. AT FOURTH ST.
SEE SHEET 799

SEE SHEET 799

WIRELESS LINK TO INTERSECTION 0042: BROAD ST. AT FOURTH ST.

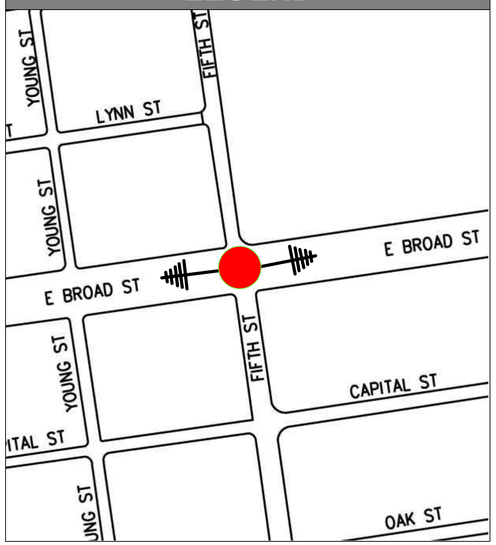
SEE SHEET 801

WIRELESS LINK TO INTERSECTION 0044: BROAD ST. AT SIXTH ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0043

REFER TO SHEET 119 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0043: BROAD ST. AT FIFTH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0045: BROAD ST. AT GRANT AVE.
SEE SHEET 802

PORT 4: INTERSECTION 0043: BROAD ST. AT FIFTH ST.
SEE SHEET 800

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

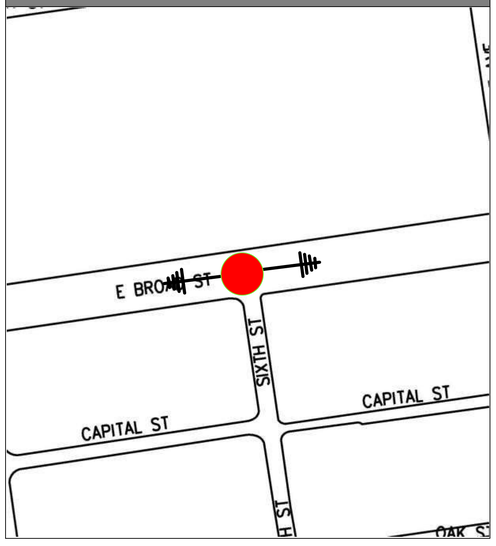
SEE SHEET 800
WIRELESS LINK TO INTERSECTION 0043: BROAD ST. AT FIFTH ST.

SEE SHEET 802
WIRELESS LINK TO INTERSECTION 0045: BROAD ST. AT GRANT AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0044

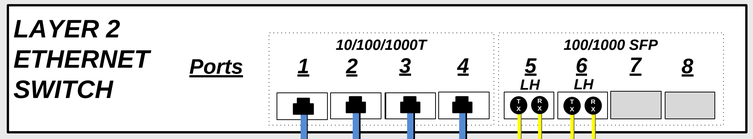
REFER TO SHEET 117 FOR CONSTRUCTION PLAN DETAILS

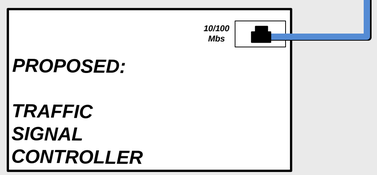
PID NUMBER 13034
2762 DR. E

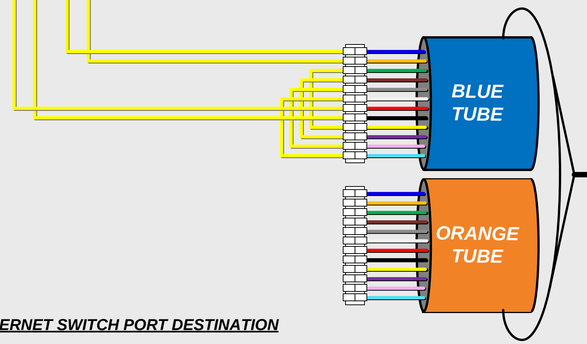
INTERSECTION 0044: BROAD ST. AT SIXTH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY







ETHERNET SWITCH PORT DESTINATION

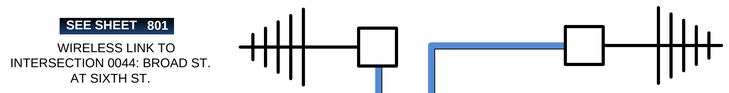
PORT 1: INTERSECTION 0044: BROAD ST. AT SIXTH ST.
SEE SHEET 801

PORT 3: INTERSECTION 0046: BROAD ST. AT CLEVELAND AVE.
SEE SHEET 803

PORT 4: INTERSECTION 0051: GRANT AVE. AT OAK ST.
SEE SHEET 808

PORT 5: INTERSECTION 0042: BROAD ST. AT FOURTH ST.
SEE SHEET 799

PORT 6: INTERSECTION 0047: BROAD ST. AT WASHINGTON AVE.
SEE SHEET 804

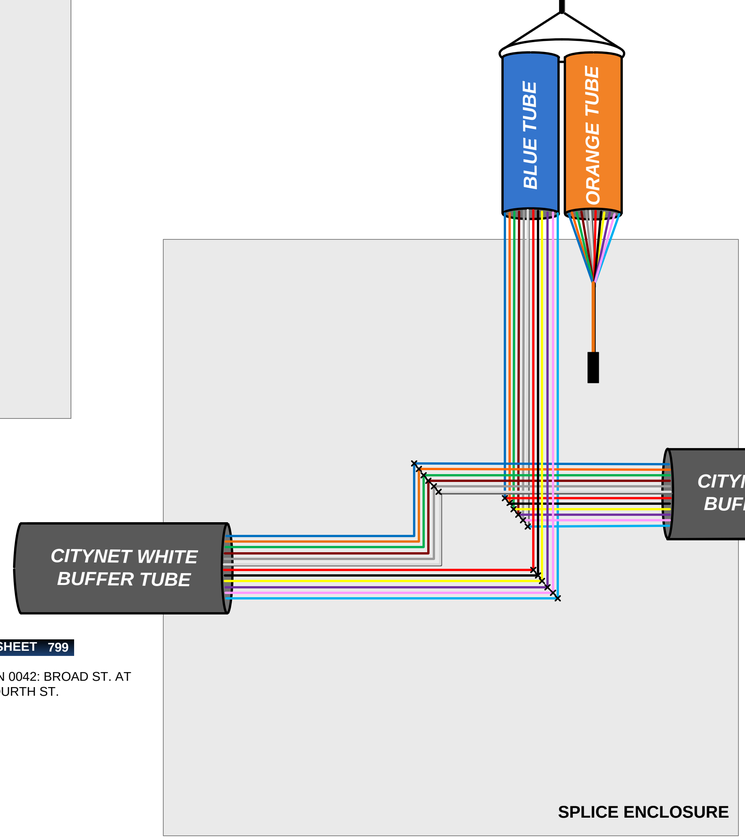


SEE SHEET 801
WIRELESS LINK TO INTERSECTION 0044: BROAD ST. AT SIXTH ST.

SEE SHEET 803
WIRELESS LINK TO INTERSECTION 0046: BROAD ST. AT CLEVELAND AVE.

SEE SHEET 808
WIRELESS LINK TO INTERSECTION 0051: GRANT AVE. AT OAK ST.

24 STRAND FIBER OPTIC DROP CABLE



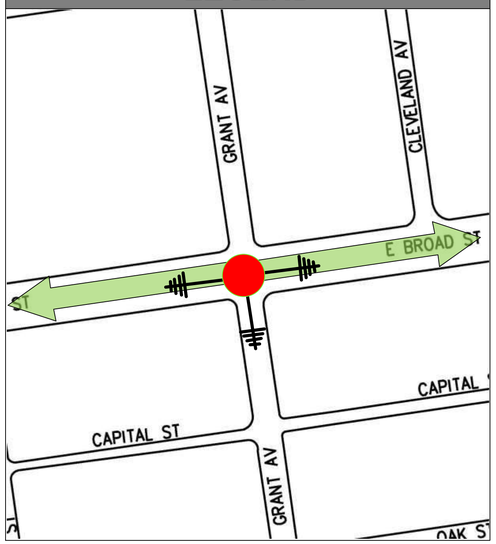
SEE SHEET 799
INTERSECTION 0042: BROAD ST. AT FOURTH ST.

SEE SHEET 804
INTERSECTION 0047: BROAD ST. AT WASHINGTON AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0045
REFER TO SHEET 121 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0045: BROAD ST. AT GRANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

802
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0047: BROAD ST. AT WASHINGTON AVE.
SEE SHEET 804

PORT 4: INTERSECTION 0045: BROAD ST. AT GRANT AVE.
SEE SHEET 802

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

SEE SHEET 802

WIRELESS LINK TO INTERSECTION 0045: BROAD ST. AT GRANT AVE.

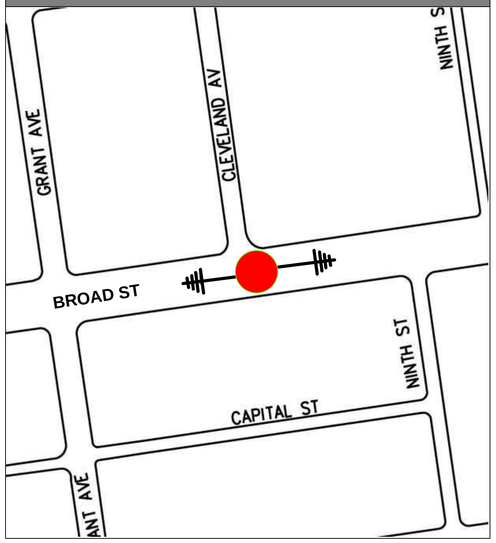
SEE SHEET 804

WIRELESS LINK TO INTERSECTION 0047: BROAD ST. AT WASHINGTON AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0046

REFER TO SHEET 122 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0046: BROAD ST. AT CLEVELAND AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6	7	8

DO NOT CONNECT TO SWITCH
RADIO INSTALLATION FOR FUTURE USE ONLY

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

ETHERNET SWITCH PORT DESTINATION

PORT 4: INTERSECTION 0046: BROAD ST. AT CLEVELAND AVE.
SEE SHEET 803

PORT 5: INTERSECTION 0045: BROAD ST. AT GRANT AVE.
SEE SHEET 802

SEE SHEET 803
WIRELESS LINK TO INTERSECTION 0046: BROAD ST. AT CLEVELAND AVE.

SEE SHEET 805
WIRELESS LINK TO INTERSECTION 0048: BROAD ST. AT I-71 SB OFF RAMP

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

INTERSECTION 0019: CLEVELAND AVE. AT SPRING ST.
SEE SHEET 778

CITYNET WHITE BUFFER TUBE

SEE SHEET 802
INTERSECTION 0045: BROAD ST. AT GRANT AVE.

CITYNET WHITE BUFFER TUBE

SPLICE ENCLOSURE

SPLICE ENCLOSURE

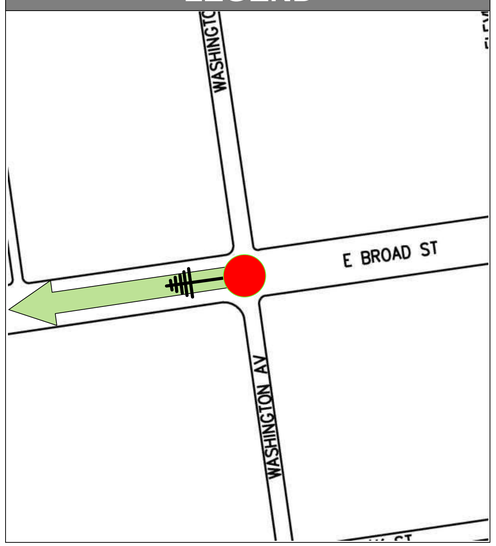
CITYNET WHITE BUFFER TUBE

SEE SHEET 809
INTERSECTION 0052: OAK ST. AT WASHINGTON AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0047

REFER TO SHEET 120 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0047: BROAD ST. AT WASHINGTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 0049: BROAD ST. AT I-71 NB OFF RAMP
SEE SHEET 806

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

DO NOT CONNECT TO SWITCH
RADIO INSTALLATION FOR FUTURE USE ONLY

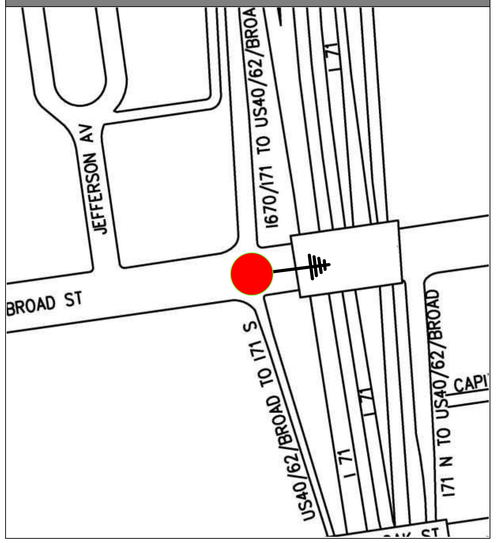
SEE SHEET 804
WIRELESS LINK TO INTERSECTION 0047: BROAD ST. AT WASHINGTON AVE.

SEE SHEET 806
WIRELESS LINK TO INTERSECTION 0049: BROAD ST. AT I-71 NB OFF RAMP

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0048
REFER TO SHEET 123 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0048: BROAD ST. AT I-71 SB OFF RAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0050: BROAD ST. AT PARSONS AVE.
SEE SHEET 807

PORT 4: INTERSECTION 0048: BROAD ST. AT I-71 SB OFF RAMP
SEE SHEET 805

SEE SHEET 805

WIRELESS LINK TO
INTERSECTION 0048: BROAD ST.
AT I-71 SB OFF RAMP

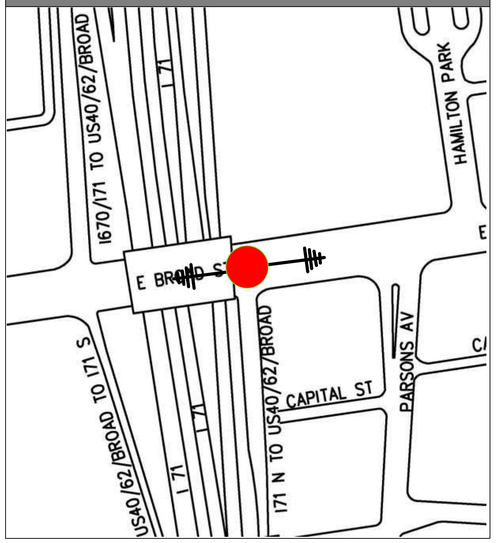
SEE SHEET 807

WIRELESS LINK TO
INTERSECTION 0050: BROAD ST.
AT PARSONS AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0049

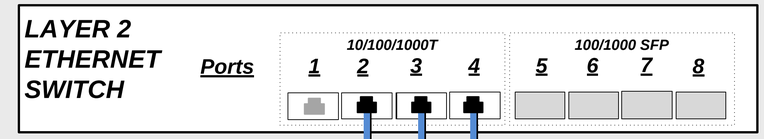
REFER TO SHEET 125 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0049: BROAD ST. AT I-71 NB OFF RAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

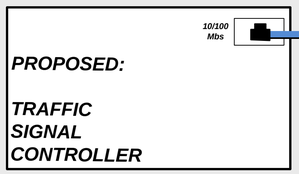
TRAFFIC SIGNAL CABINET ASSEMBLY



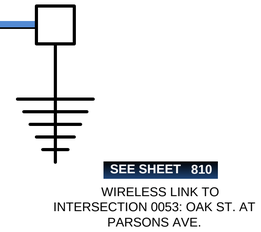
ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0049: BROAD ST. AT I-71 NB OFF RAMP
SEE SHEET 806

PORT 4: INTERSECTION 0053: OAK ST. AT PARSONS AVE.
SEE SHEET 810



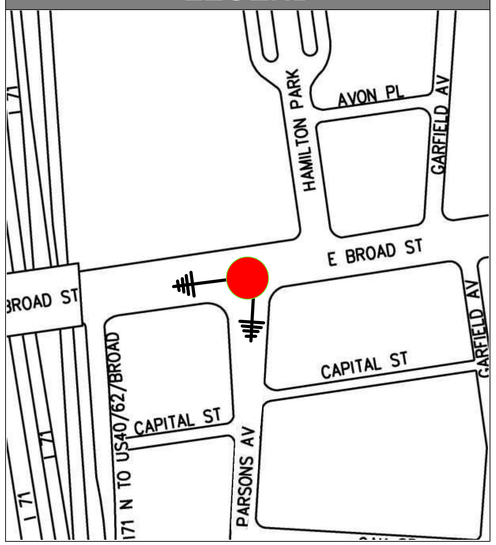




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0050

REFER TO SHEET 126 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0050: BROAD ST. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0045: BROAD ST. AT GRANT AVE.
SEE SHEET 802

PORT 4: INTERSECTION 0059: GRANT AVE. AT STATE ST.
SEE SHEET 816

SEE SHEET 802

WIRELESS LINK TO INTERSECTION 0045: BROAD ST. AT GRANT AVE.

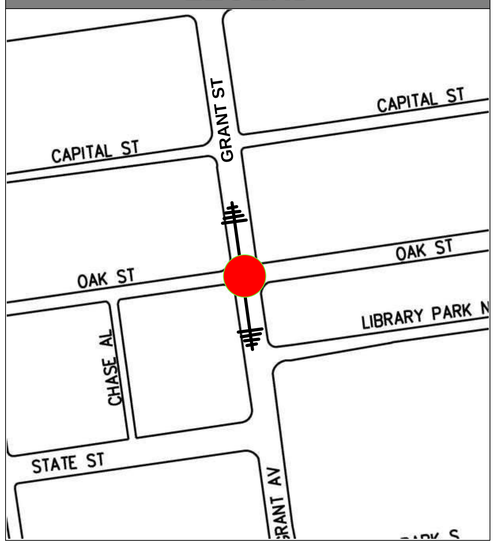
SEE SHEET 816

WIRELESS LINK TO INTERSECTION 0059: GRANT AVE. AT STATE ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0051

REFER TO SHEET 127 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0051: GRANT AVE. AT OAK ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0066: TOWN ST. AT WASHINGTON AVE.
SEE SHEET 822

PORT 5: INTERSECTION 0086: CLEVELAND AVE. AT NAGHTEN ST.
SEE SHEET 842

PORT 6: INTERSECTION 0079: GRANT AVE. AT E. MAIN ST.
SEE SHEET 835

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

- BLUE TUBE
- ORANGE TUBE

SEE SHEET 822
WIRELESS LINK TO INTERSECTION 0066: TOWN ST. AT WASHINGTON AVE.

24 STRAND FIBER OPTIC DROP CABLE

SEE SHEET 804
INTERSECTION 0047: BROAD ST. AT WASHINGTON AVE.

SPLICE ENCLOSURE

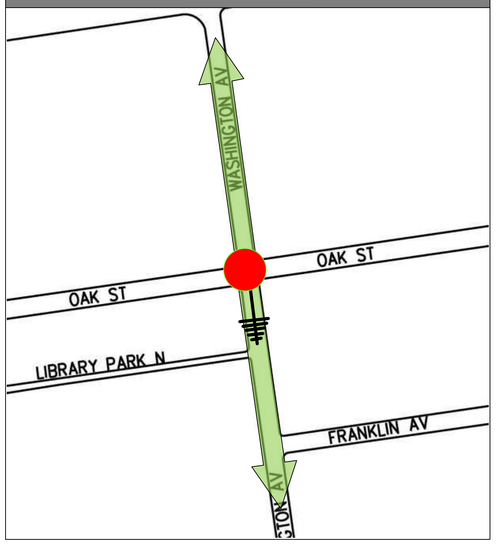
- CITYNET WHITE BUFFER TUBE
- BLUE TUBE
- ORANGE TUBE
- CITYNET WHITE BUFFER TUBE

SEE SHEET 835
INTERSECTION 0079: GRANT AVE. AT E. MAIN ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0052

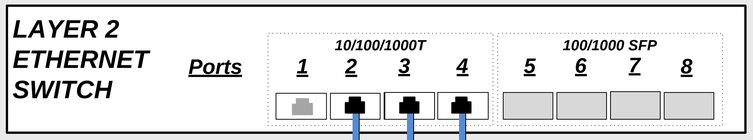
REFER TO SHEET 129 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0052: OAK ST. AT WASHINGTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

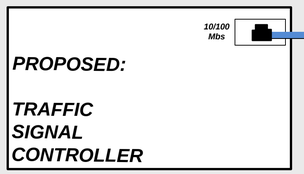
TRAFFIC SIGNAL CABINET ASSEMBLY

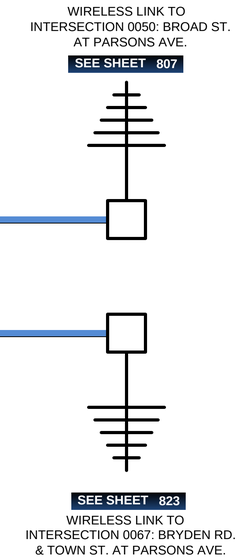


ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0050: BROAD ST. AT PARSONS AVE.
SEE SHEET 807

PORT 4: INTERSECTION 0067: BRYDEN RD. & TOWN ST. AT PARSONS AVE.
SEE SHEET 823

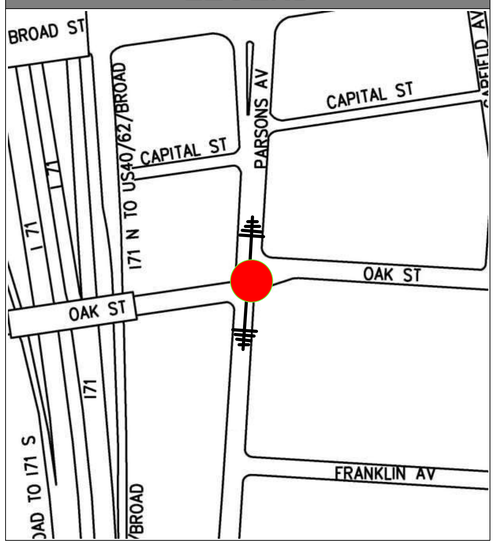




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0053

REFER TO SHEET 131 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0053: OAK ST. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0061: FRONT ST. AT TOWN ST.
SEE SHEET 817

PORT 6: INTERSECTION 0068: FRONT ST. AT RICH ST.
SEE SHEET 824

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

CAPPED AND COILED IN VARIOUS PULLBOXES BETWEEN STATE ST. AND BROAD ST.

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

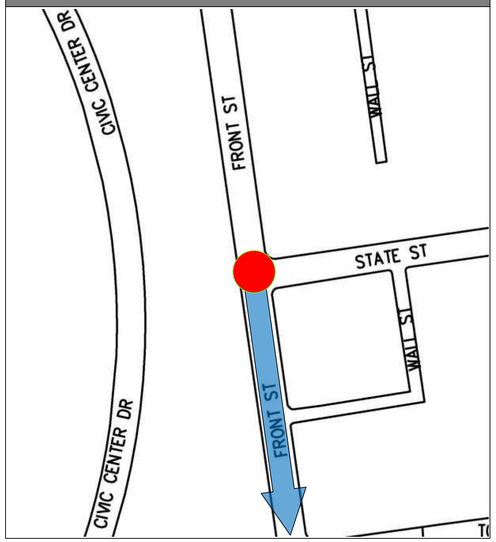
BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 817

INTERSECTION 0061: FRONT ST. AT TOWN ST.

INTERSECTION 0054

REFER TO SHEET 137 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0054: FRONT ST. AT STATE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0034: GAY ST. AT HIGH ST.
SEE SHEET 792

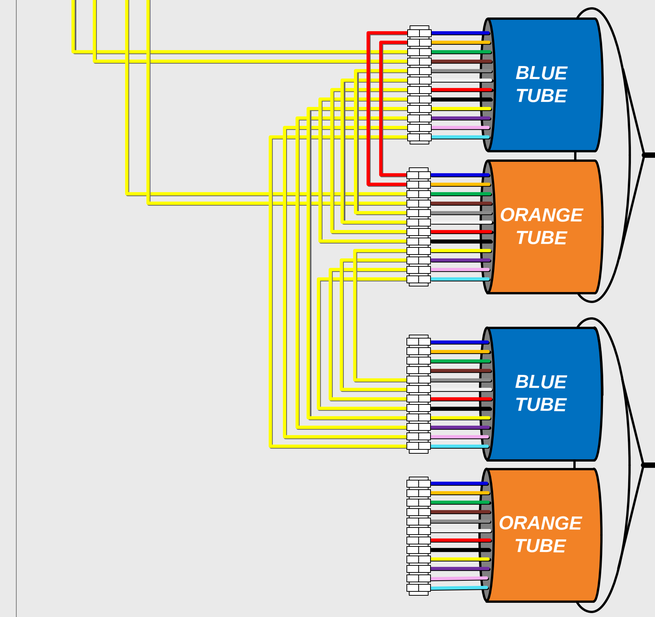
PORT 6: INTERSECTION 0069: S HIGH ST. AT RICH ST.
SEE SHEET 825

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232



PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

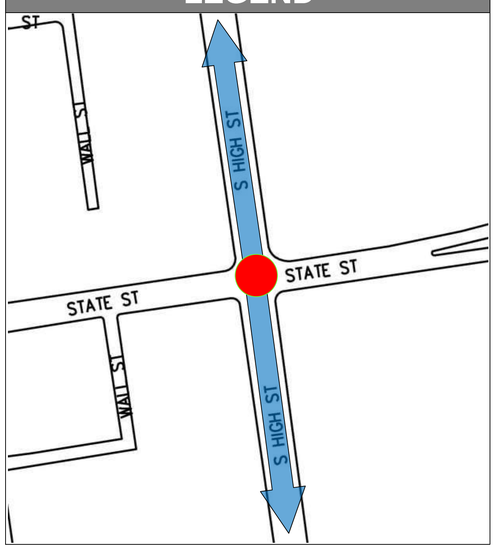
24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 812A
TO SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0055

REFER TO SHEET 132 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0055: HIGH ST. AT STATE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

812
1107

INTERSECTION 0093:
BROAD ST. AT N. HIGH ST.
SEE SHEET 849

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 812

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 813
INTERSECTION 0056:
STATE ST. AT THIRD ST.

SPLICE ENCLOSURE IN
EXISTING 36" PULL BOX
5 CABLE ENTRIES
84 FUSION SPLICES
8 COILED BUFFER TUBES
9 BUFFER TUBES PASSED THROUGH UNSPLICED

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 818
INTERSECTION 0062: S.
HIGH ST. AT TOWN ST.

PID NUMBER 13034
2762 DR. E

INTERSECTION 0055: HIGH ST. AT STATE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

812A
1107

INTERSECTION 0055

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH #1 — Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

LAYER 2 ETHERNET SWITCH #2 — Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

WIRELESS LINK TO BUILDING MOUNTED CCTV SITE - 88 E BROAD ST
SEE SHEET 798

WIRELESS LINK TO INTERSECTION 0041: BROAD ST. AT THIRD ST.
SEE SHEET 798

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

SEE SHEET 814
WIRELESS LINK TO INTERSECTION 0057: FOURTH ST. AT STATE ST.

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

SEE SHEET 819
WIRELESS LINK TO INTERSECTION 0063: THIRD ST. AT TOWN ST.

ETHERNET SWITCH #1 PORT DESTINATION

PORT 1: INTERSECTION 0057: FOURTH ST. AT STATE ST.
SEE SHEET 814

PORT 3: INTERSECTION 0063: THIRD ST. AT TOWN ST.
SEE SHEET 819

PORT 4: ETHERNET SWITCH #2

PORT 5: COMMUNICATION HUB: 77 N. FRONT ST.
SEE SHEET 1073

PORT 6: INTERSECTION 0064: FOURTH ST. AT TOWN ST.
SEE SHEET 820

ETHERNET SWITCH #2 PORT DESTINATION

PORT 1: ETHERNET SWITCH #1

PORT 3: INTERSECTION 0041: BROAD ST. AT THIRD ST.
SEE SHEET 798

PORT 4: BUILDING MOUNTED CCTV SITE - 88 E BROAD ST
SEE SHEET 798

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 812
INTERSECTION 0055: HIGH ST. AT STATE ST.

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

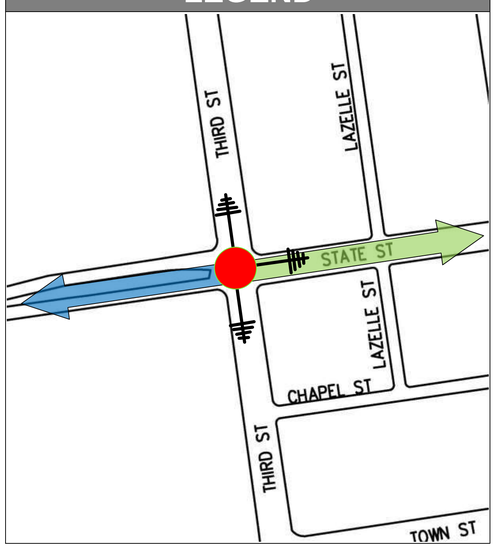
BLUE TUBE
ORANGE TUBE
CITYNET WHITE BUFFER TUBE

SEE SHEET 820
INTERSECTION 0064: FOURTH ST. AT TOWN ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS

*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0056

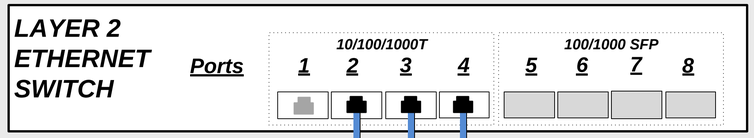
REFER TO SHEET 133 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0056: STATE ST. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

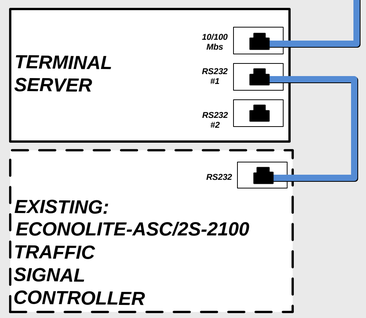
TRAFFIC SIGNAL CABINET ASSEMBLY

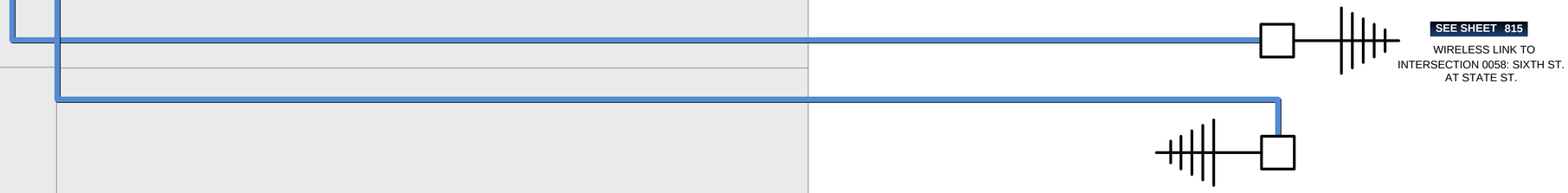


ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0058: SIXTH ST. AT STATE ST.
SEE SHEET 815

PORT 4: INTERSECTION 0056: STATE ST. AT THIRD ST.
SEE SHEET 813

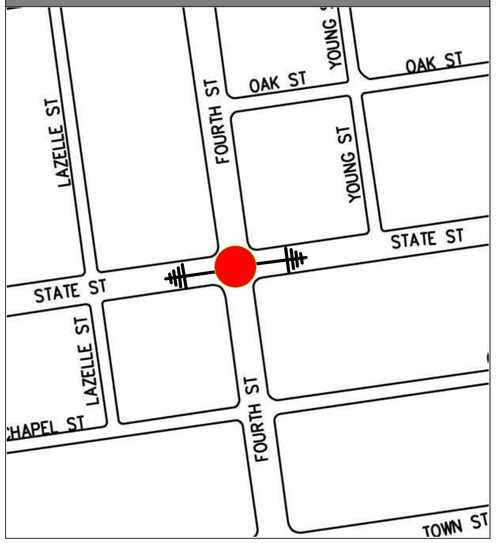




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0057

REFER TO SHEET 134 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0057: FOURTH ST. AT STATE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 0059: GRANT AVE. AT STATE ST.
SEE SHEET 816

PORT 3: INTERSECTION 0021: SIXTH ST. AT TOWN ST.
SEE SHEET 780

PORT 4: INTERSECTION 0057: FOURTH ST. AT STATE ST.
SEE SHEET 814

SEE SHEET 814
WIRELESS LINK TO INTERSECTION 0057: FOURTH ST. AT STATE ST.

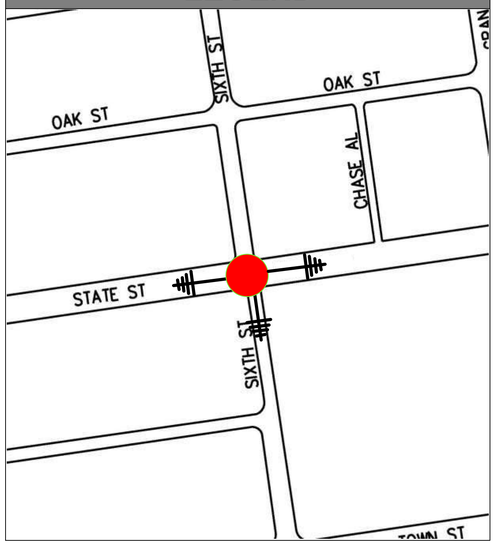
SEE SHEET 816
WIRELESS LINK TO INTERSECTION 0059: GRANT AVE. AT STATE ST.

SEE SHEET 780
WIRELESS LINK TO INTERSECTION 0021: SIXTH ST. AT TOWN ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0058

REFER TO SHEET 135 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0058: SIXTH ST. AT STATE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0051: GRANT AVE. AT OAK ST.
SEE SHEET 808

PORT 4: INTERSECTION 0058: SIXTH ST. AT STATE ST.
SEE SHEET 815

SEE SHEET 808

WIRELESS LINK TO INTERSECTION 0051: GRANT AVE. AT OAK ST.

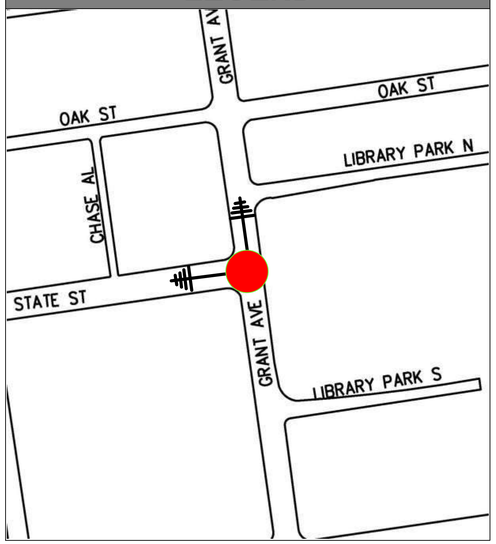
SEE SHEET 815

WIRELESS LINK TO INTERSECTION 0058: SIXTH ST. AT STATE ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0059

REFER TO SHEET 128 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0059: GRANT AVE. AT STATE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0054: FRONT ST. AT STATE ST.
SEE SHEET 811

PORT 6: INTERSECTION 0068: FRONT ST. AT RICH ST.
SEE SHEET 824

EXISTING:
ECONOLITE-ASC/3
TRAFFIC
SIGNAL
CONTROLLER

10/100Mbs
ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION 0054: FRONT ST. AT STATE ST.
SEE SHEET 811

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

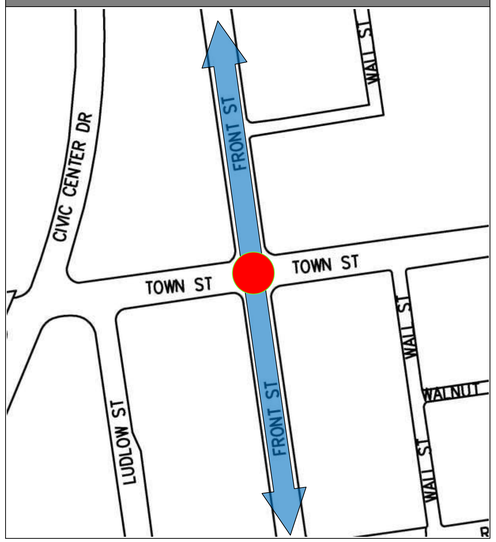
SEE SHEET 824

INTERSECTION 0068: FRONT ST. AT RICH ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0061

REFER TO SHEET 138 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

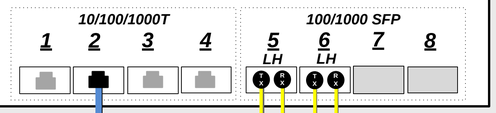
INTERSECTION 0061: FRONT ST. AT TOWN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

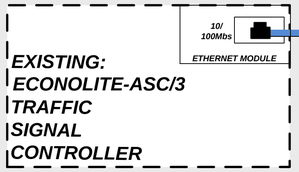
Ports



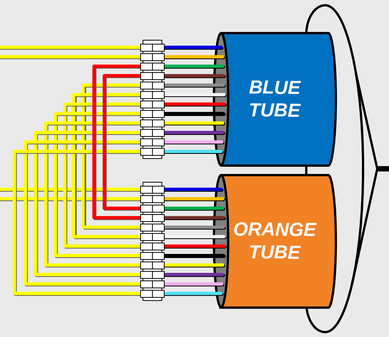
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0093: BROAD ST. AT N. HIGH ST.
SEE SHEET 849

PORT 6: INTERSECTION 0075: S. HIGH ST. AT MAIN ST.
SEE SHEET 831

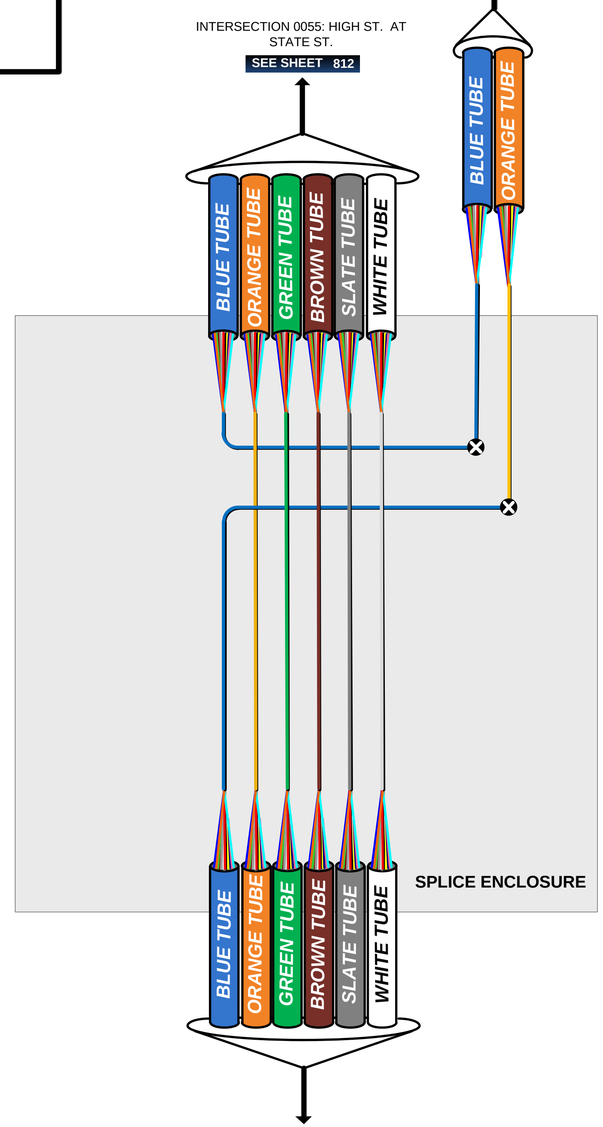


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0055: HIGH ST. AT STATE ST.
SEE SHEET 812



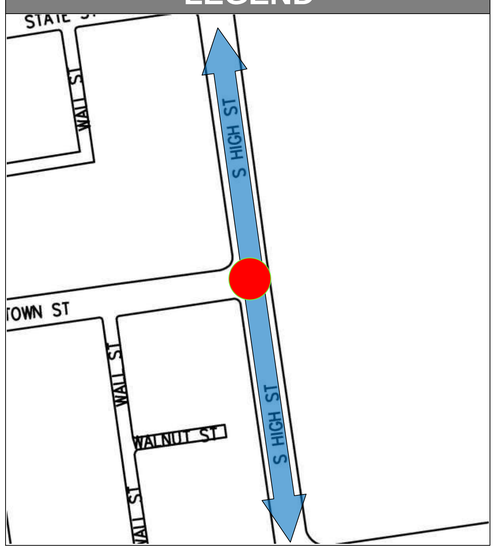
SEE SHEET 825

INTERSECTION 0069: S HIGH ST. AT RICH ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0062

REFER TO SHEET 139 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0062: S. HIGH ST. AT TOWN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0056: STATE ST. AT THIRD ST.
SEE SHEET 813

PORT 4: INTERSECTION 0070: RICH ST. AT THIRD ST.
SEE SHEET 826

SEE SHEET 813

WIRELESS LINK TO
INTERSECTION 0056: STATE ST.
AT THIRD ST.

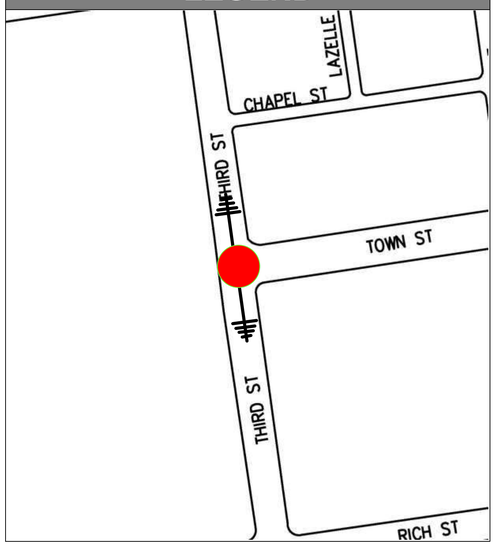
SEE SHEET 826

WIRELESS LINK TO
INTERSECTION 0070: RICH ST.
AT THIRD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0063

REFER TO SHEET 140 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0063: THIRD ST. AT TOWN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0021: SIXTH ST. AT TOWN ST.
SEE SHEET 780

PORT 4: INTERSECTION 0071: FOURTH ST. AT RICH ST.
SEE SHEET 827

PORT 5: INTERSECTION 0056: STATE ST. AT THIRD ST.
SEE SHEET 813

PORT 6: INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.
SEE SHEET 833

BUILDING - SPLICE TO RISER CABLE

PULLBOX - SPLICE TO DROP CABLE

LAYER 2 ETHERNET SWITCH

LH

10/100 Mbs

10/100 Mbs

EXISTING CCTV FIELD CONTROLLER

EXISTING CCTV

COMMUNICATION CENTER AT TOP OF 140 TOWN ST. BUILDING

SEE SHEET 780

WIRELESS LINK TO INTERSECTION 0021: SIXTH ST. AT TOWN ST.

SEE SHEET 827

WIRELESS LINK TO INTERSECTION 0071: FOURTH ST. AT RICH ST.

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0056: STATE ST. AT THIRD ST.
SEE SHEET 813

BLUE TUBE

ORANGE TUBE

CITYNET WHITE BUFFER TUBE

BLUE TUBE

ORANGE TUBE

CITYNET WHITE BUFFER TUBE

SEE SHEET 833

SPLICE ENCLOSURE

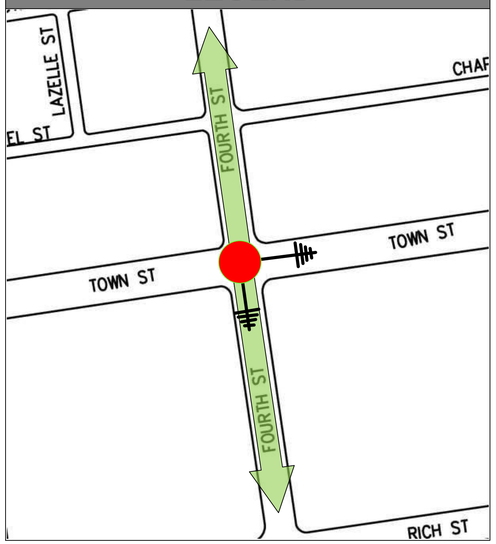
INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.

PATCH PANEL ENCLOSURE – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0064

REFER TO SHEET 141 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0064: FOURTH ST. AT TOWN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0066: TOWN ST. AT WASHINGTON AVE.
SEE SHEET 822

PORT 4: INTERSECTION 0072: GRANT AVE. AT RICH ST.
SEE SHEET 828

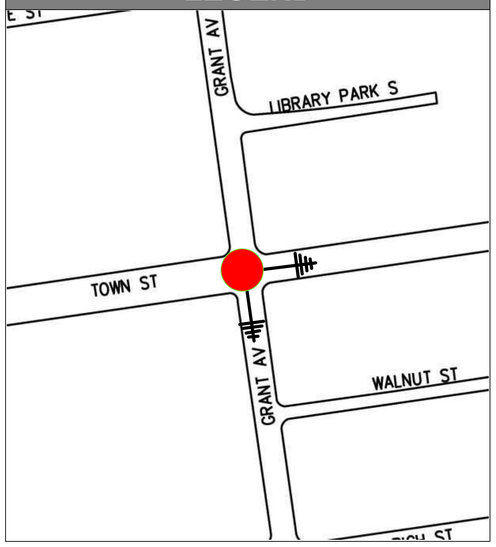
SEE SHEET 822
WIRELESS LINK TO INTERSECTION 0066: TOWN ST. AT WASHINGTON AVE.

SEE SHEET 828
WIRELESS LINK TO INTERSECTION 0072: GRANT AVE. AT RICH ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0065

REFER TO SHEET 143 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 0065: GRANT AVE. AT TOWN ST. COMMUNICATIONS DIAGRAM

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0052: OAK ST. AT WASHINGTON AVE.
SEE SHEET 809

PORT 4: INTERSECTION 0065: GRANT AVE. AT TOWN ST.
SEE SHEET 821

SEE SHEET 809

WIRELESS LINK TO INTERSECTION 0052: OAK ST. AT WASHINGTON AVE.

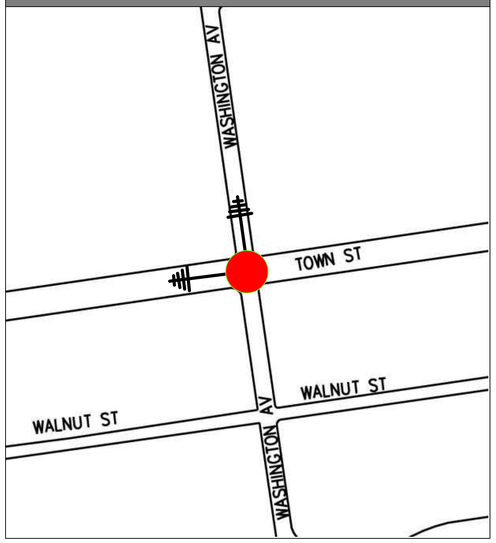
SEE SHEET 821

WIRELESS LINK TO INTERSECTION 0065: GRANT AVE. AT TOWN ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0066

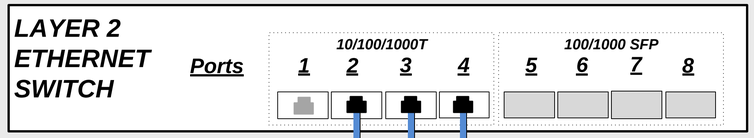
REFER TO SHEET 144 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0066: TOWN ST. AT WASHINGTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

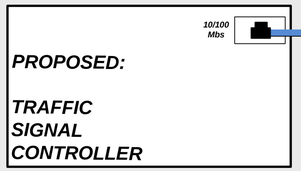
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

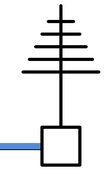
PORT 3: INTERSECTION 0053: OAK ST. AT PARSONS AVE.
SEE SHEET 810

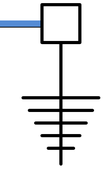
PORT 4: INTERSECTION 0081: E. MAIN ST. AT PARSONS AVE.
SEE SHEET 837



WIRELESS LINK TO
INTERSECTION 0053: OAK ST. AT
PARSONS AVE.

SEE SHEET 810





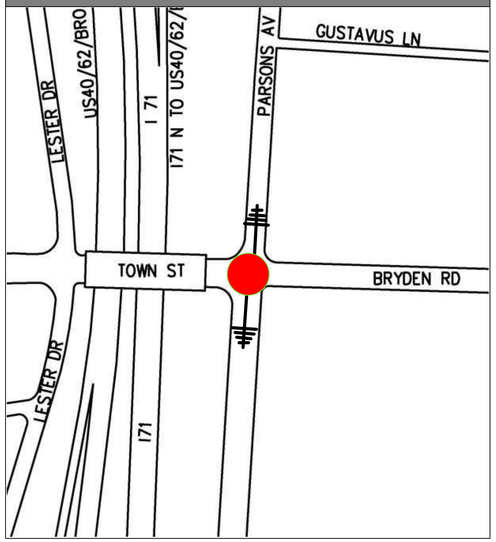
SEE SHEET 837

WIRELESS LINK TO
INTERSECTION 0081: E. MAIN ST.
AT PARSONS AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0067
REFER TO SHEET 145 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0067: BRYDEN RD. & TOWN ST. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0061: FRONT ST. AT TOWN ST.
SEE SHEET 817

PORT 6: INTERSECTION 0054: FRONT ST. AT STATE ST.
SEE SHEET 811

PORT 7: INTERSECTION 0074: FRONT ST. AT MAIN ST.
SEE SHEET 830

PORT 8: INTERSECTION 0031: CIVIC CENTER DR. & SECOND ST. AT RICH ST.
SEE SHEET 790

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

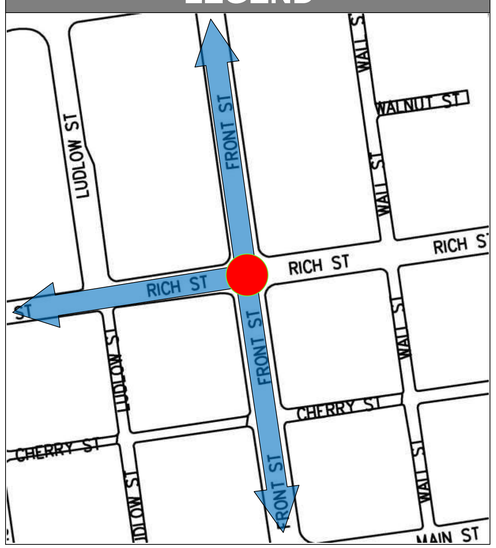
MATCHLINE 'A' - SEE SHEET 824A
TO SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0068

REFER TO SHEET 150 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0068: FRONT ST. AT RICH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 0061:
FRONT ST. AT TOWN ST.
SEE SHEET 817

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 824

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

INTERSECTION 0031:
CIVIC CENTER DR. &
SECOND ST. AT RICH ST.
SEE SHEET 790

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SPLICE ENCLOSURE IN
EXISTING 32" PULL BOX
5 CABLE ENTRIES
132 FUSION SPLICES
4 COILED BUFFER TUBES
7 BUFFER TUBES PASSED THROUGH UNSPLICED

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 830

INTERSECTION 0074:
FRONT ST. AT MAIN ST.

PID NUMBER 13034
2762 DR. E

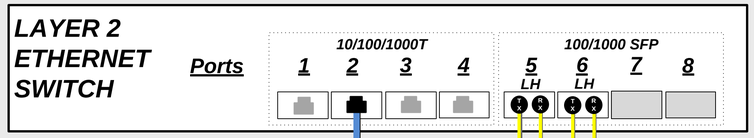
INTERSECTION 0068: FRONT ST. AT RICH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

824A
1107

INTERSECTION 0068

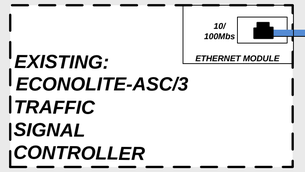
TRAFFIC SIGNAL CABINET ASSEMBLY



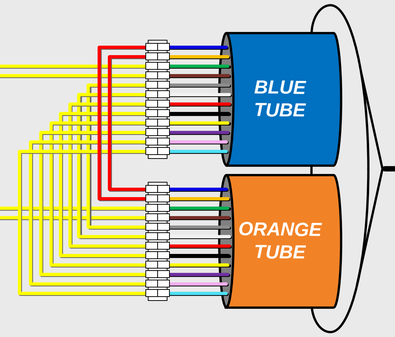
ETHERNET SWITCH PORT DESTINATION

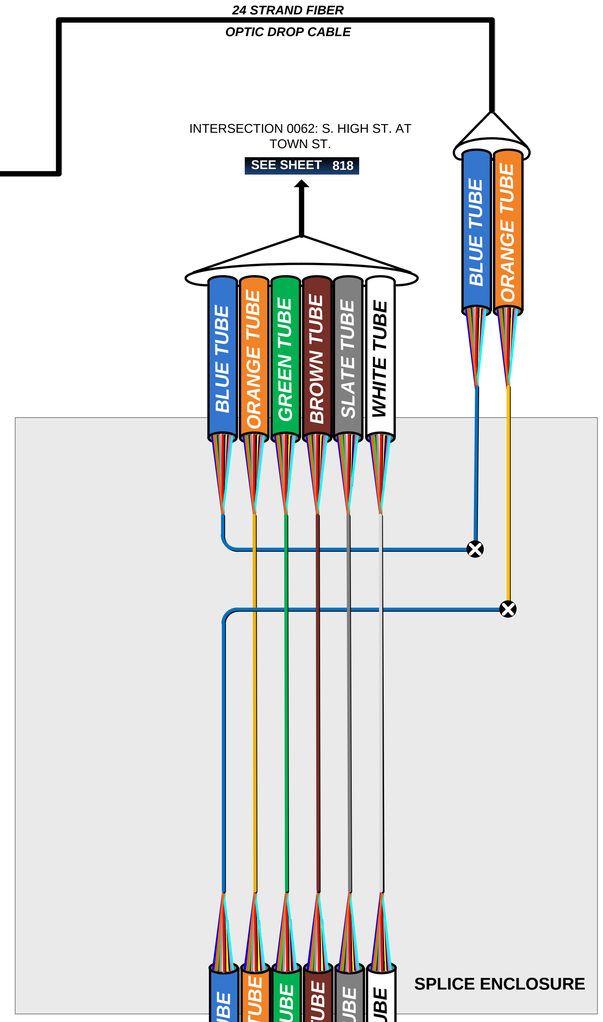
PORT 5: INTERSECTION 0055: HIGH ST. AT STATE ST.
SEE SHEET 812

PORT 6: INTERSECTION 0083: HIGH ST. AT MOUND ST.
SEE SHEET 839



PATCH PANEL ENCLOSURE – 24 TERMINATION





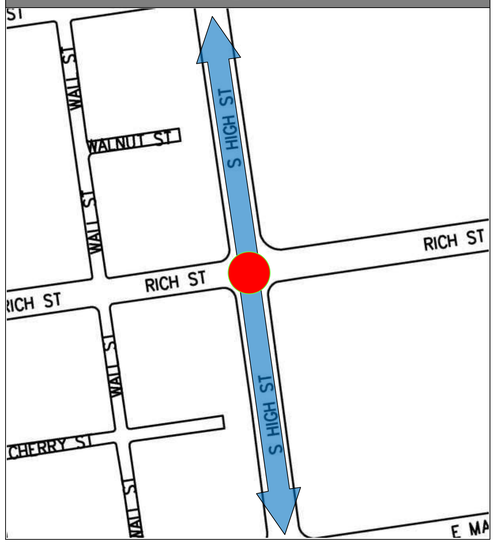
144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0069

REFER TO SHEET 151 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0069: S HIGH ST. AT RICH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0063: THIRD ST. AT TOWN ST.
SEE SHEET 819

PORT 4: INTERSECTION 0076: MAIN ST. AT E. THIRD ST.
SEE SHEET 832

SEE SHEET 819

WIRELESS LINK TO
INTERSECTION 0063: THIRD ST.
AT TOWN ST.

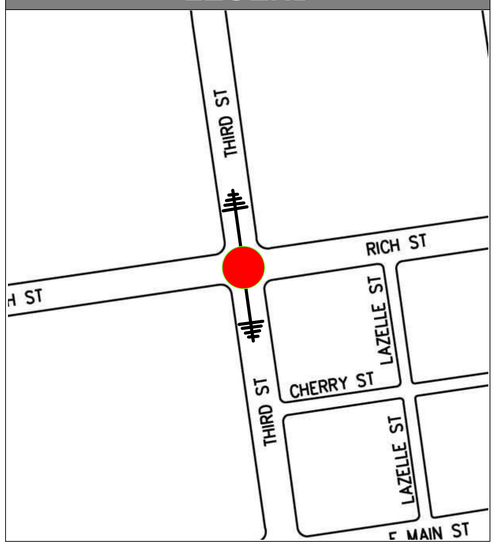
SEE SHEET 832

WIRELESS LINK TO
INTERSECTION 0076: MAIN ST.
AT E. THIRD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0070

REFER TO SHEET 152 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0070: RICH ST. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0064: FOURTH ST. AT TOWN ST.
SEE SHEET 820

PORT 4: INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.
SEE SHEET 833

SEE SHEET 820

WIRELESS LINK TO INTERSECTION 0064: FOURTH ST. AT TOWN ST.

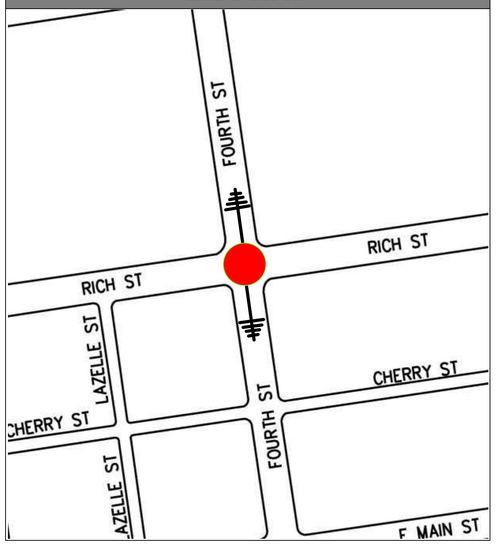
SEE SHEET 833

WIRELESS LINK TO INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0071

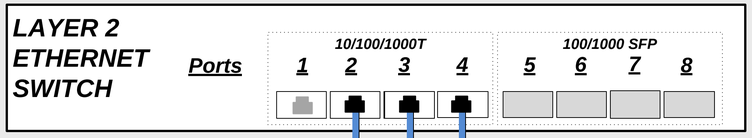
REFER TO SHEET 153 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0071: FOURTH ST. AT RICH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

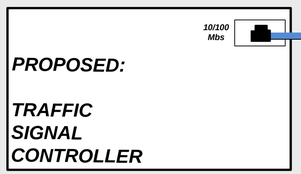
TRAFFIC SIGNAL CABINET ASSEMBLY

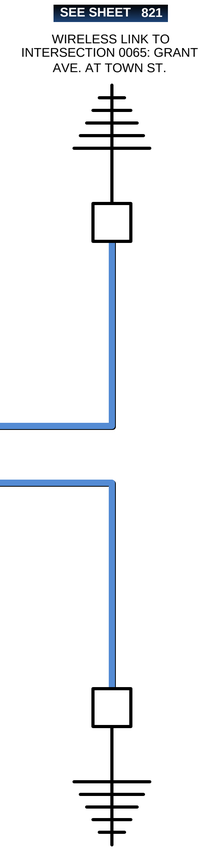


ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0065: GRANT AVE. AT TOWN ST.
SEE SHEET 821

PORT 4: INTERSECTION 0079: GRANT AVE. AT E. MAIN ST.
SEE SHEET 835

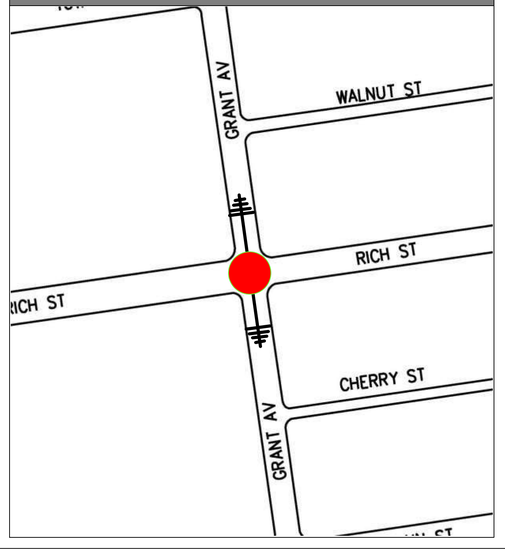




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0072

REFER TO SHEET 155 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0072: GRANT AVE. AT RICH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7 LH, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0031: CIVIC CENTER DR. & SECOND ST. AT RICH ST.
SEE SHEET 790

PORT 6: INTERSECTION 0096: MOUND ST. AT SECOND ST.
SEE SHEET 852

PORT 7: INTERSECTION 0074: FRONT ST. AT MAIN ST.
SEE SHEET 830

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

CCTV FIELD BOX

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

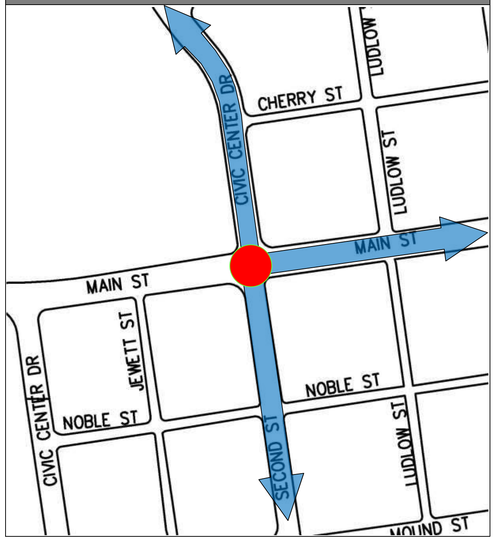
MATCHLINE 'A' - SEE SHEET 829A
TO SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES : (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0073

REFER TO SHEET 160 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0073: MAIN ST. AT SECOND ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 0031:
CIVIC CENTER DR. &
SECOND ST. AT RICH ST.
SEE SHEET 790

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 829

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SEE SHEET 830
INTERSECTION 0074:
FRONT ST. AT MAIN ST.

SPLICE ENCLOSURE IN
EXISTING 32" PULL BOX
5 CABLE ENTRIES
120 FUSION SPLICES
14 COILED BUFFER TUBES
3 BUFFER TUBES PASSED THROUGH UNSPLICED

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 852
INTERSECTION 0096:
MOUND ST. AT SECOND ST.

PID NUMBER 13034
2762 DR. E

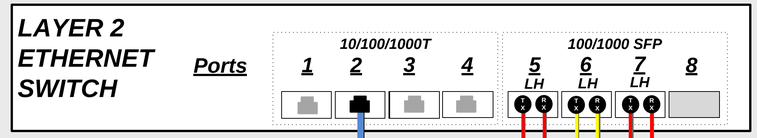
INTERSECTION 0073: MAIN ST. AT SECOND ST.
COMMUNICATIONS DIAGRAM

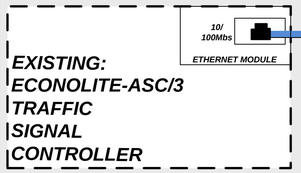
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

829A
1107

INTERSECTION 0073

TRAFFIC SIGNAL CABINET ASSEMBLY



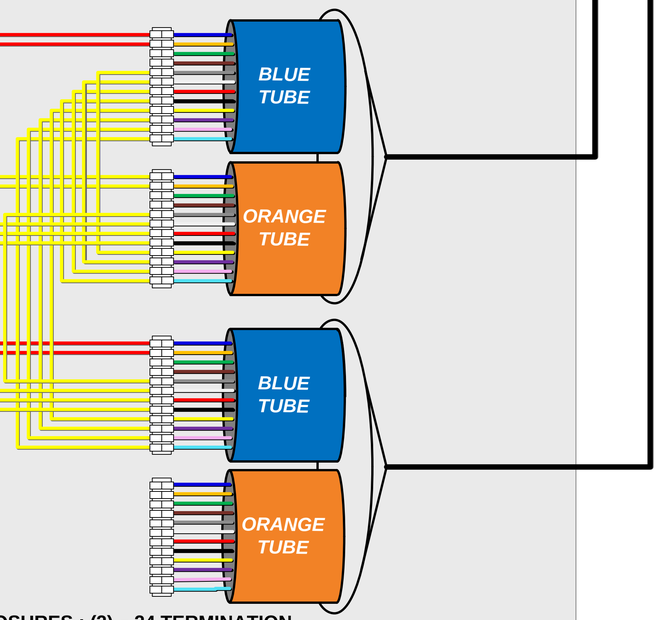


ETHERNET SWITCH PORT DESTINATION

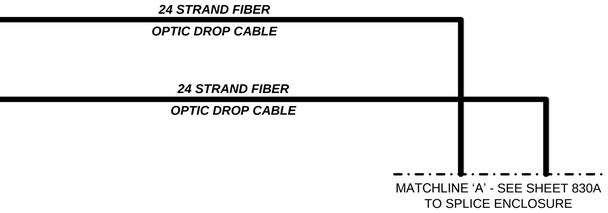
PORT 5: INTERSECTION 0068: FRONT ST. AT RICH ST.
SEE SHEET 824

PORT 6: INTERSECTION 0082: FRONT ST. AT MOUND ST.
SEE SHEET 838

PORT 7: INTERSECTION 0073: MAIN ST. AT SECOND ST.
SEE SHEET 829



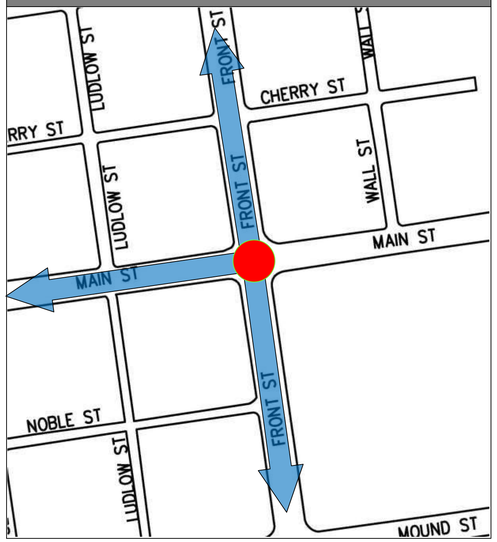
PATCH PANEL ENCLOSURES : (2) – 24 TERMINATION



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



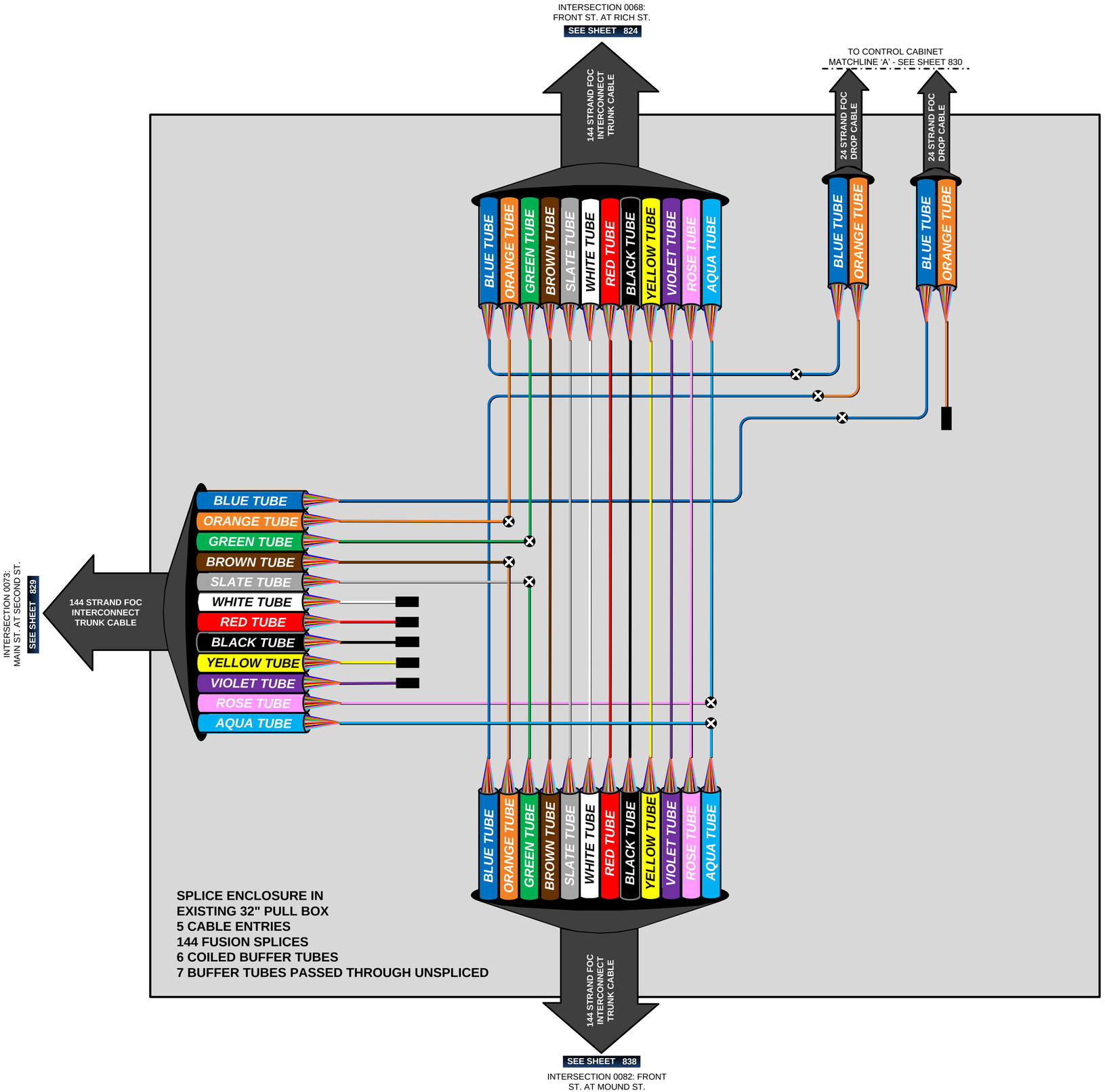
INTERSECTION 0074

REFER TO SHEET 161 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0074: FRONT ST. AT MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

INTERSECTION 0074: FRONT ST. AT MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

830A
1107

INTERSECTION 0074

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0062: S. HIGH ST. AT TOWN ST.
SEE SHEET 818

PORT 6: INTERSECTION 0087: FULTON ST. AT HIGH ST.
SEE SHEET 843

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

CCTV FIELD BOX

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0069: S HIGH ST. AT RICH ST.

SEE SHEET 825

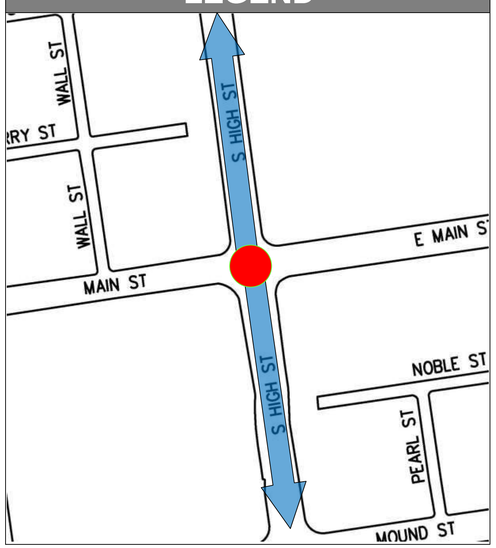
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 839

INTERSECTION 0083: HIGH ST. AT MOUND ST.

INTERSECTION 0075

REFER TO SHEET 162 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0075: S. HIGH ST. AT MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0070: RICH ST. AT THIRD ST.
SEE SHEET 826

PORT 5: INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.
SEE SHEET 833

SEE SHEET 826

WIRELESS LINK TO INTERSECTION 0070: RICH ST. AT THIRD ST.

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

CITYNET WHITE BUFFER TUBE

SEE SHEET 833

INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.

CITYNET WHITE BUFFER TUBE

SEE SHEET 830

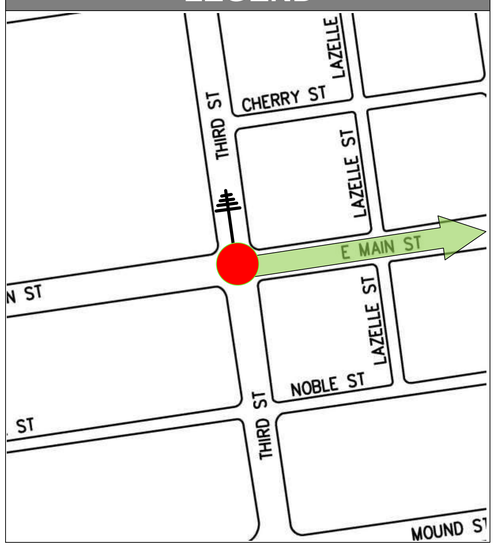
INTERSECTION 0074: FRONT ST. AT MAIN ST.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0076

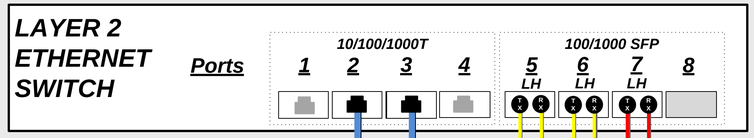
REFER TO SHEET 163 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0076: MAIN ST. AT E. THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0071: FOURTH ST. AT RICH ST.
SEE SHEET 827

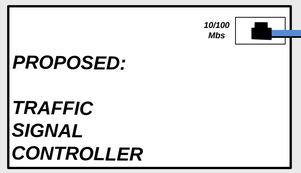
PORT 5: INTERSECTION 0064: FOURTH ST. AT TOWN ST.
SEE SHEET 820

PORT 6: INTERSECTION 0078: FIFTH ST. AT E. MAIN ST.
SEE SHEET 834

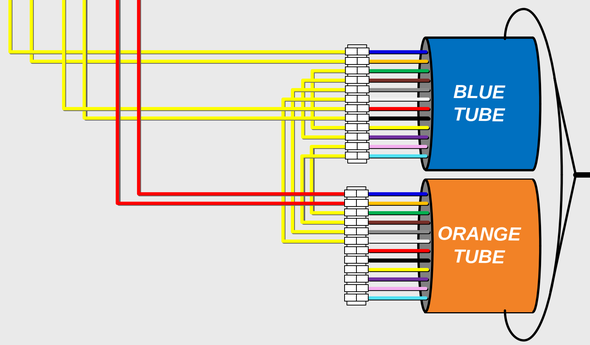
PORT 7: INTERSECTION 0076: MAIN ST. AT E. THIRD ST.
SEE SHEET 832

WIRELESS LINK TO
INTERSECTION 0071: FOURTH
ST. AT RICH ST.

SEE SHEET 827



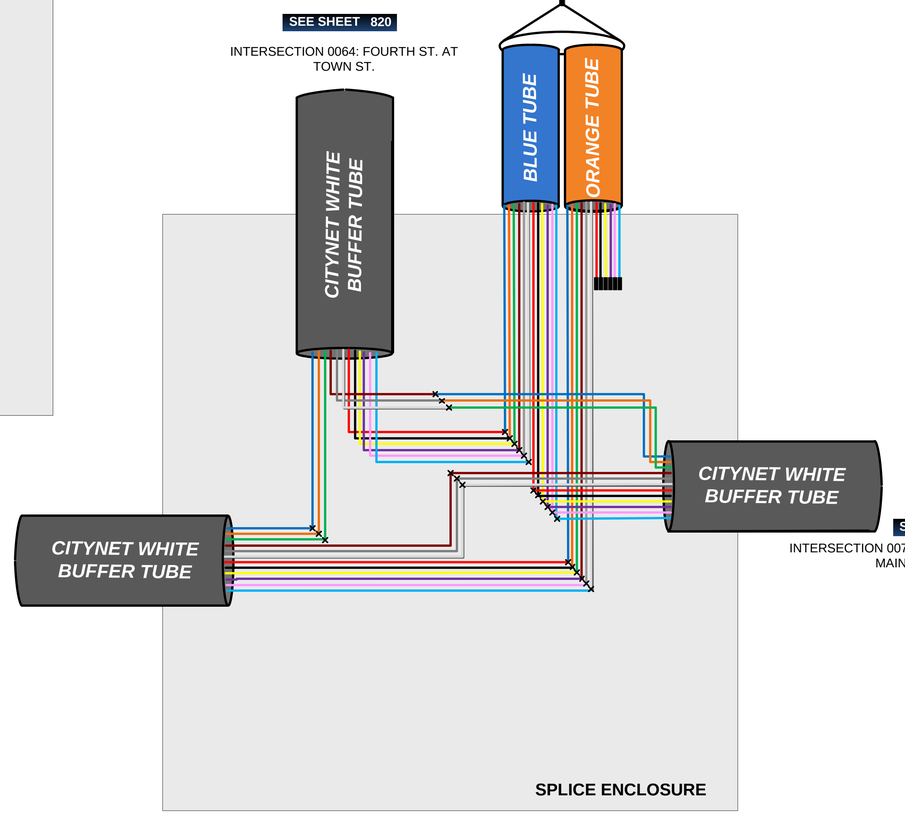
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

SEE SHEET 820

INTERSECTION 0064: FOURTH ST. AT
TOWN ST.



SEE SHEET 832

INTERSECTION 0076: MAIN ST. AT E.
THIRD ST.

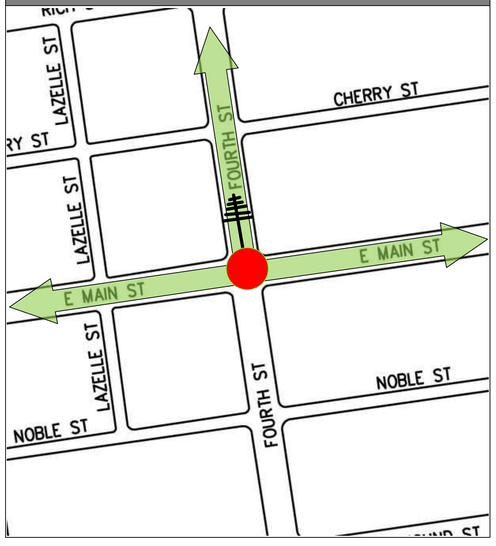
SEE SHEET 834

INTERSECTION 0078: FIFTH ST. AT E.
MAIN ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0077

REFER TO SHEET 156 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0094: FIFTH ST. AT RICH ST.
SEE SHEET 850

PORT 5: INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.
SEE SHEET 833

WIRELESS LINK TO
INTERSECTION 0094: FIFTH ST.
AT RICH ST.

SEE SHEET 850

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

CITYNET WHITE BUFFER TUBE

CITYNET WHITE BUFFER TUBE

SEE SHEET 833

INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.

SEE SHEET 835

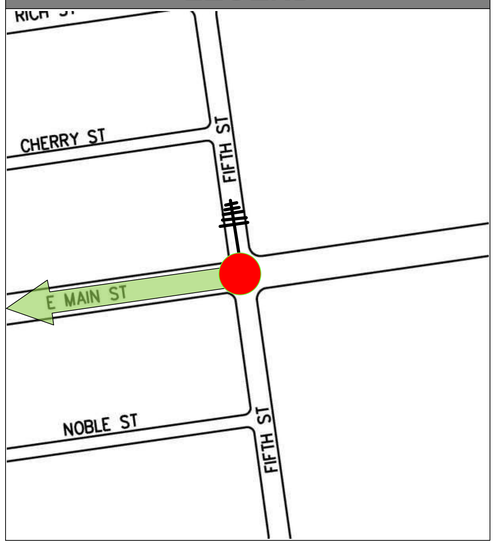
INTERSECTION 0079: GRANT AVE. AT E. MAIN ST.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0078

REFER TO SHEET 157 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0078: FIFTH ST. AT E. MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

WIRELESS LINK TO INTERSECTION 0072: GRANT AVE. AT RICH ST.

SEE SHEET 828

WIRELESS LINK TO INTERSECTION 0080: E. MAIN ST. AT WASHINGTON AVE.

SEE SHEET 836

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

CITYNET WHITE BUFFER TUBE

SEE SHEET 834

INTERSECTION 0078: FIFTH ST. AT E. MAIN ST.

CITYNET WHITE BUFFER TUBE

SEE SHEET 809

INTERSECTION 0052: OAK ST. AT WASHINGTON AVE.

SPLICE ENCLOSURE

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0072: GRANT AVE. AT RICH ST.
SEE SHEET 828

PORT 4: INTERSECTION 0080: E. MAIN ST. AT WASHINGTON AVE.
SEE SHEET 836

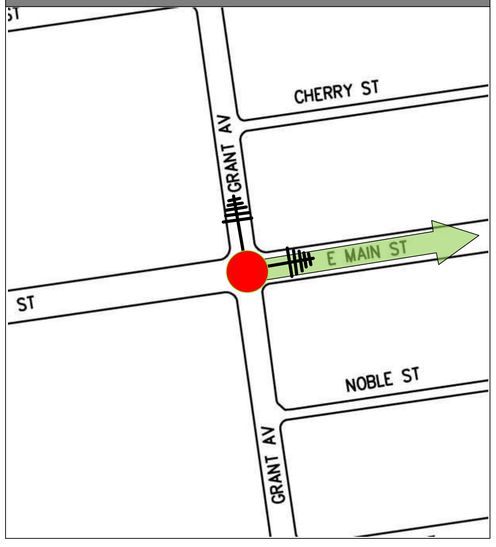
PORT 5: INTERSECTION 0052: OAK ST. AT WASHINGTON AVE.
SEE SHEET 809

PORT 6: INTERSECTION 0019: CLEVELAND AVE. AT SPRING ST.
SEE SHEET 778

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0079

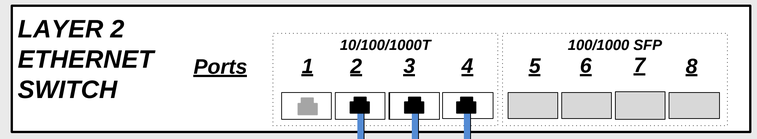
REFER TO SHEET 158 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0079: GRANT AVE. AT E. MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

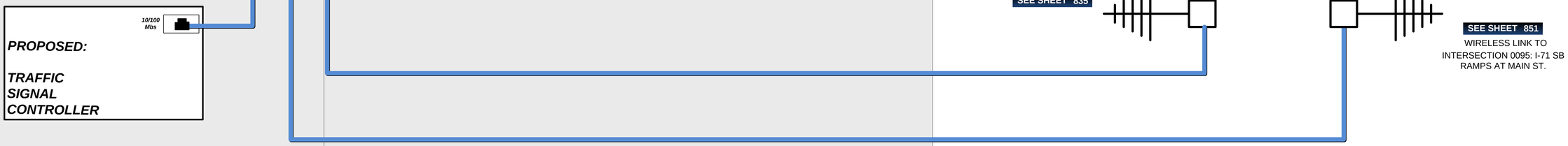
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0095: I-71 SB RAMPS AT MAIN ST.
SEE SHEET 851

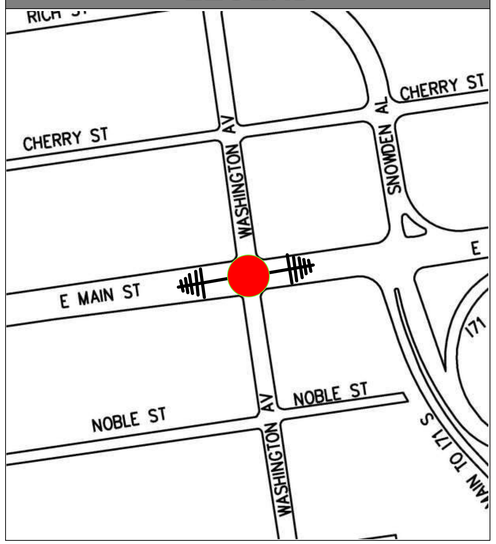
PORT 4: INTERSECTION 0079: GRANT AVE. AT E. MAIN ST.
SEE SHEET 835



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0080

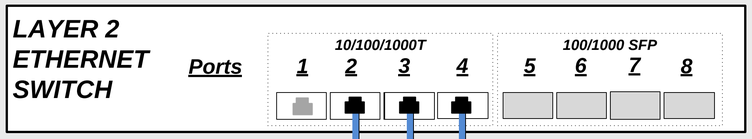
REFER TO SHEET 146 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0080: E. MAIN ST. AT WASHINGTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

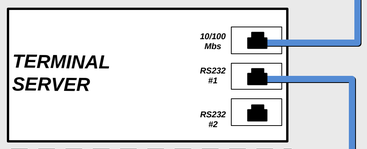
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

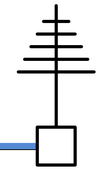
PORT 3: INTERSECTION 0067: BRYDEN RD. & TOWN ST. AT PARSONS AVE.
SEE SHEET 823

PORT 4: INTERSECTION 0095: I-71 SB RAMPS AT MAIN ST.
SEE SHEET 851

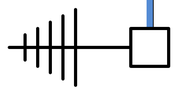




WIRELESS LINK TO
INTERSECTION 0067: BRYDEN RD. & TOWN
ST. AT PARSONS AVE.
SEE SHEET 823



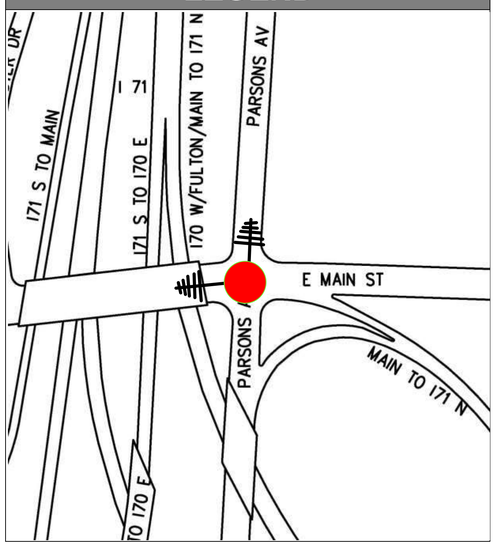
WIRELESS LINK TO
INTERSECTION 0095: I-71 SB
RAMPS AT MAIN ST.
SEE SHEET 851



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0081
REFER TO SHEET 147 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0081: E. MAIN ST. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

EXISTING:

ECONOLITE-ASC/3 SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0090: FRONT ST. AT FULTON ST. & LIVINGSTON AVE.
SEE SHEET 846

PORT 5: INTERSECTION 0074: FRONT ST. AT MAIN ST.
SEE SHEET 830

PORT 6: INTERSECTION 0084: MOUND ST. AT THIRD ST.
SEE SHEET 840

PORT 7: INTERSECTION 0083: HIGH ST. AT MOUND ST.
SEE SHEET 839

BUILDING - SPLICE TO RISER CABLE

24 STRAND RISER CABLE THROUGH BUILDING SPACE

24 STRAND FOC

24 STRAND DROP

PULLBOX - SPLICE TO DROP CABLE

LAYER 2 ETHERNET SWITCH

LH

10/100 Mbs

10/100 Mbs

EXISTING CCTV FIELD CONTROLLER

EXISTING CCTV

COMMUNICATION CENTER AT TOP OF 375 S HIGH ST. BUILDING

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0074: FRONT ST. AT MAIN ST.

SEE SHEET 830

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 846

WIRELESS LINK TO INTERSECTION 0090: FRONT ST. AT FULTON ST. & LIVINGSTON AVE.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 839

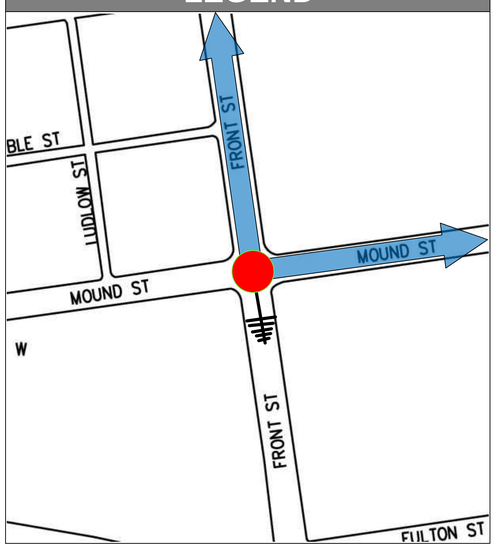
INTERSECTION 0083: HIGH ST. AT MOUND ST.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0082

REFER TO SHEET 164 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0082: FRONT ST. AT MOUND ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0069: S HIGH ST. AT RICH ST.
SEE SHEET 825

PORT 6: INTERSECTION 0087: FULTON ST. AT HIGH ST.
SEE SHEET 843

PORT 7: INTERSECTION 0085: FOURTH ST. AT MOUND ST.
SEE SHEET 841

PORT 8: INTERSECTION 0082: FRONT ST. AT MOUND ST.
SEE SHEET 838

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

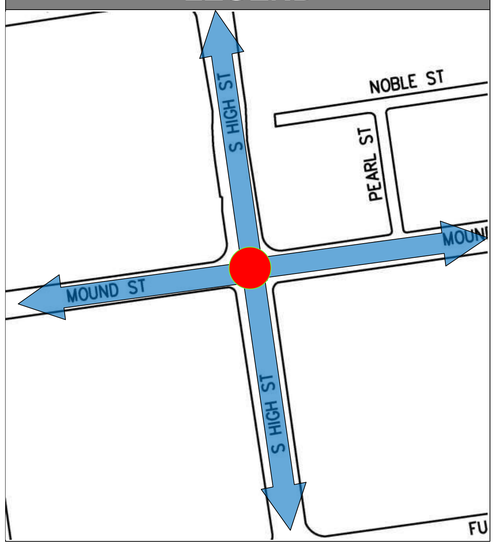
MATCHLINE 'A' - SEE SHEET 839A
TO SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0083

REFER TO SHEET 166 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0083: HIGH ST. AT MOUND ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 0075: S. HIGH ST. AT MAIN ST.

SEE SHEET 831

144 STRAND FOC INTERCONNECT TRUNK CABLE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 839

24 STRAND FOC DROP CABLE

24 STRAND FOC DROP CABLE

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SEE SHEET 838
INTERSECTION 0082:
FRONT ST. AT MOUND ST.

288 STRAND FOC DROP CABLE

TO:
CITY MUNICIPAL COURTS BUILDING
273 S. HIGH ST.

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 840
INTERSECTION 0084:
MOUND ST. AT THIRD ST.

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 843
INTERSECTION 0087:
FULTON ST. AT HIGH ST.

SPLICE ENCLOSURE IN
EXISTING 32" PULL BOX
7 CABLE ENTRIES
432 FUSION SPLICES
2 COILED BUFFER TUBES
2 BUFFER TUBES PASSED THROUGH UNSPLICED

PID NUMBER 13034
2762 DR. E

INTERSECTION 0083: HIGH ST. AT MOUND ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 0083

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0088: FULTON ST. AT THIRD ST.
SEE SHEET 844

PORT 5: INTERSECTION 0128: FIFTH ST. AT MOUND ST.
REFER TO ODOT PID #77370

PORT 6: INTERSECTION 0082: FRONT ST. AT MOUND ST.
SEE SHEET 838

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

SEE SHEET 844

WIRELESS LINK TO INTERSECTION 0088: FULTON ST. AT THIRD ST.

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 839
INTERSECTION 0083: HIGH ST. AT MOUND ST.

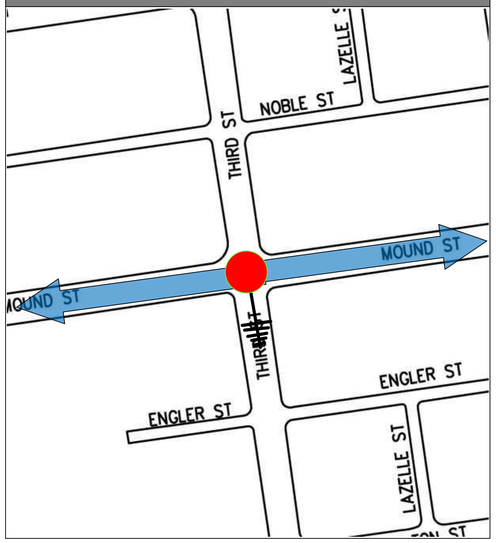
SEE SHEET 841
INTERSECTION 0085: FOURTH ST. AT MOUND ST.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0084

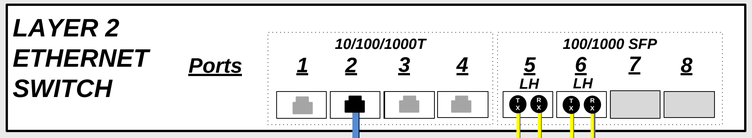
REFER TO SHEET 167 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0084: MOUND ST. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

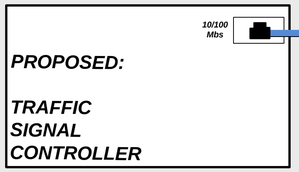
TRAFFIC SIGNAL CABINET ASSEMBLY

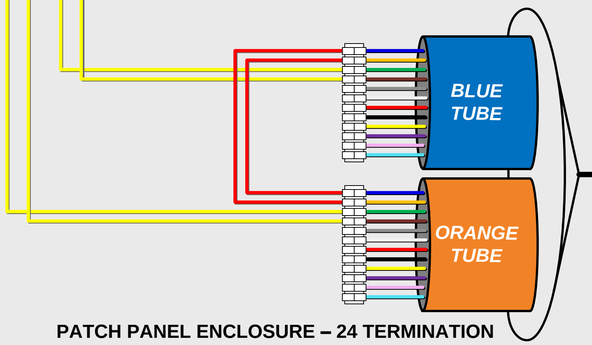


ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0129: GRANT ST. AT MOUND ST.
REFER TO ODOT PID #77370

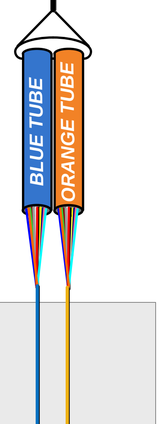
PORT 6: INTERSECTION 0083: HIGH ST. AT MOUND ST.
SEE SHEET 839

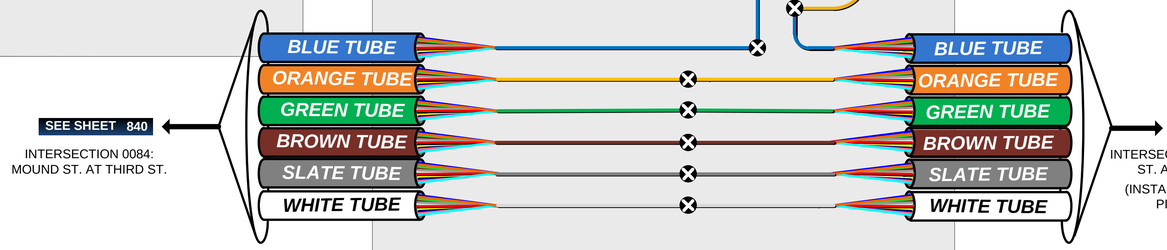




PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER
OPTIC DROP CABLE





SEE SHEET 840

INTERSECTION 0084:
MOUND ST. AT THIRD ST.

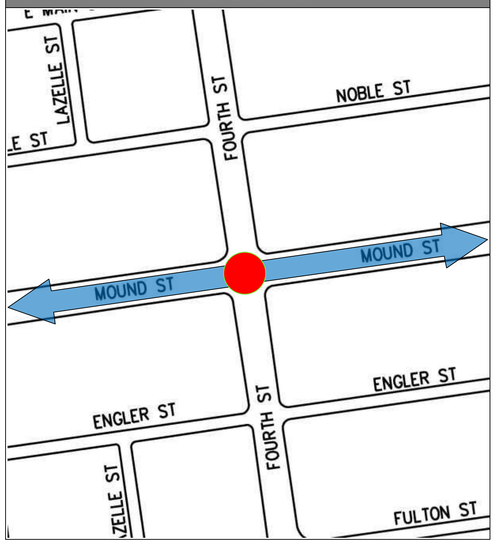
INTERSECTION 0128: FIFTH ST. AT MOUND ST.
(INSTALLED BY ODOT PID #77370)

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

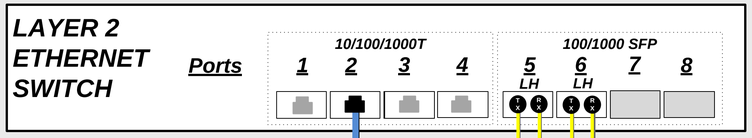
INTERSECTION 0085
REFER TO SHEET 168 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0085: FOURTH ST. AT MOUND ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)
(CTSS) PHASE B - AS BUILT (DRAFT)

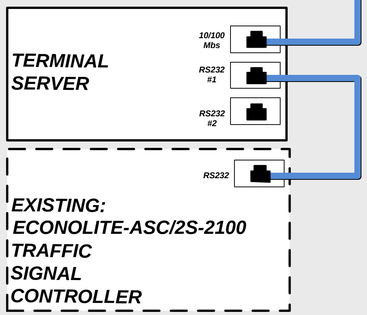
TRAFFIC SIGNAL CABINET ASSEMBLY



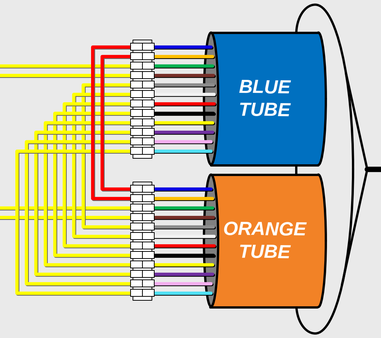
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0126: CLEVELAND AVE. AT JEFFERSON AVE.
SEE SHEET 763

PORT 6: INTERSECTION 0052: OAK ST. AT WASHINGTON AVE.
SEE SHEET 809

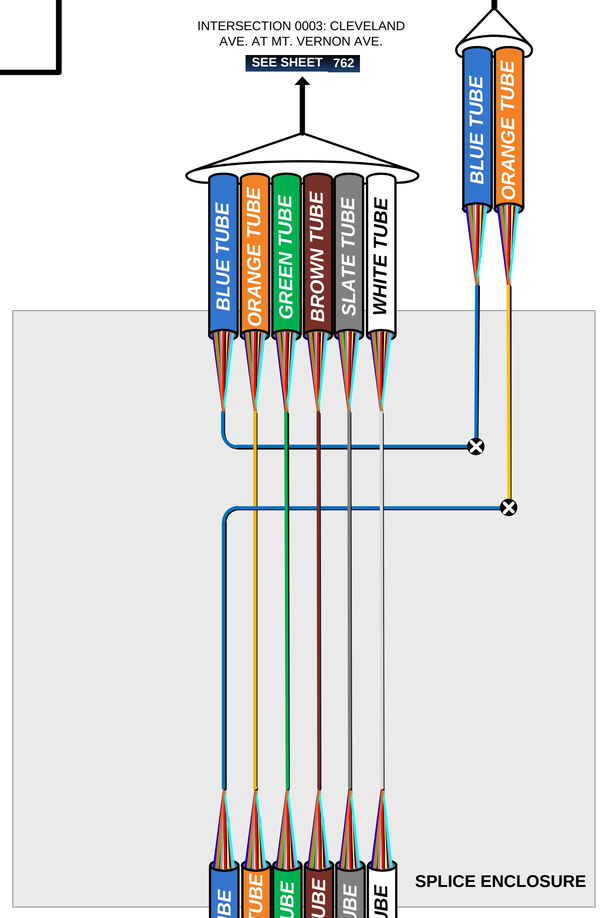


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION 0003: CLEVELAND AVE. AT MT. VERNON AVE.
SEE SHEET 762



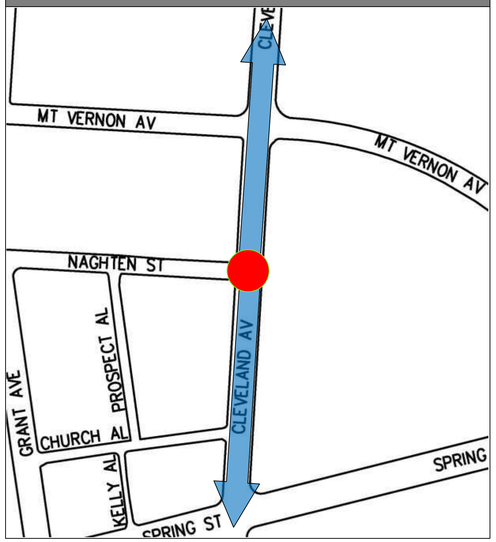
SEE SHEET 778

INTERSECTION 0019: CLEVELAND AVE. AT SPRING ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0086

REFER TO SHEET 71 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0086: CLEVELAND AVE. AT NAGHTEN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0091: HIGH ST. AT LIVINGSTON AVE.
SEE SHEET 847

PORT 5: INTERSECTION 0075: S. HIGH ST. AT MAIN ST.
SEE SHEET 831

PORT 6: INTERSECTION 0083: HIGH ST. AT MOUND ST.
SEE SHEET 839

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0083: HIGH ST. AT MOUND ST.
SEE SHEET 839

SEE SHEET 847
WIRELESS LINK TO
INTERSECTION 0091: HIGH ST. AT LIVINGSTON AVE.

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

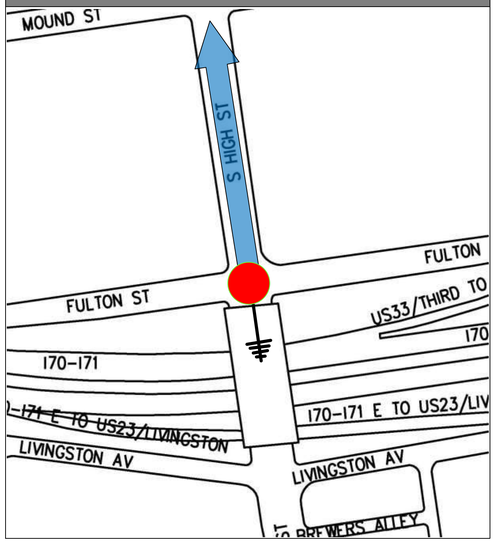
BLUE TUBE | ORANGE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0087

REFER TO SHEET 169 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0087: FULTON ST. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 0084: MOUND ST. AT THIRD ST.
SEE SHEET 840

PORT 3: INTERSECTION 0089: FOURTH ST. AT FULTON ST.
SEE SHEET 845

PORT 4: INTERSECTION 0092: LIVINGSTON AVE. AT THIRD ST.
SEE SHEET 848

SEE SHEET 840
WIRELESS LINK TO INTERSECTION 0084: MOUND ST. AT THIRD ST.

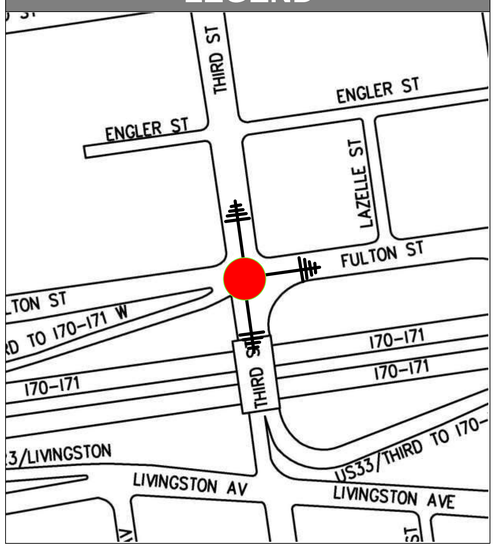
SEE SHEET 845
WIRELESS LINK TO INTERSECTION 0089: FOURTH ST. AT FULTON ST.

SEE SHEET 848
WIRELESS LINK TO INTERSECTION 0092: LIVINGSTON AVE. AT THIRD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0088

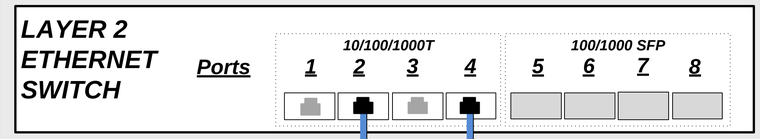
REFER TO SHEET 174 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0088: FULTON ST. AT THIRD ST.
COMMUNICATIONS DIAGRAM

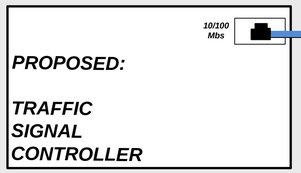
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 4: INTERSECTION 0088: FULTON ST. AT THIRD ST.
SEE SHEET 844



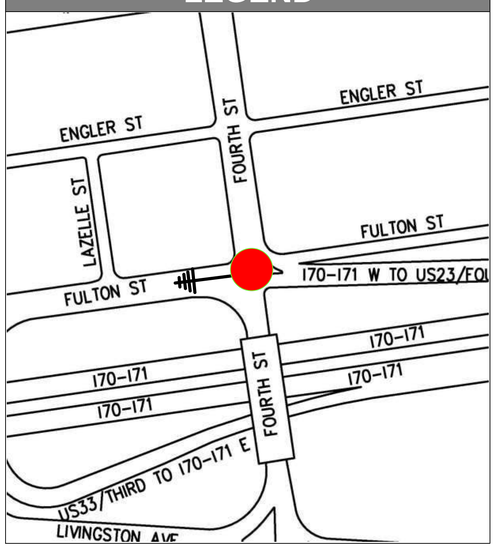


WIRELESS LINK TO
INTERSECTION 0088: FULTON
ST. AT THIRD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



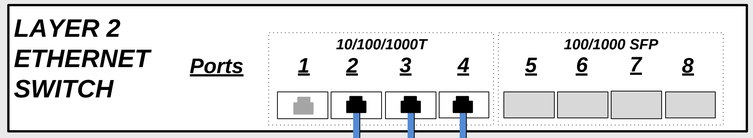
INTERSECTION 0089
REFER TO SHEET 175 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0089: FOURTH ST. AT FULTON ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

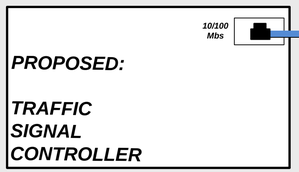
TRAFFIC SIGNAL CABINET ASSEMBLY

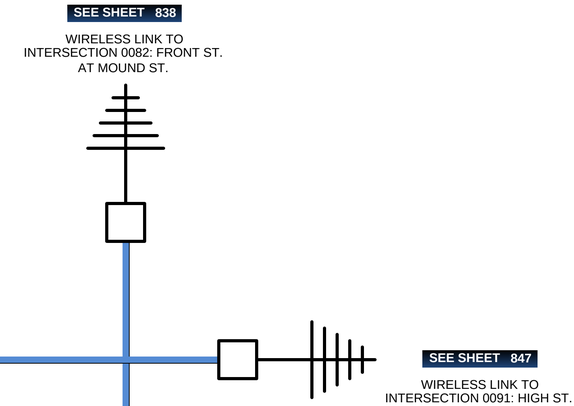


ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0082: FRONT ST. AT MOUND ST.
SEE SHEET 838

PORT 4: INTERSECTION 0091: HIGH ST. AT LIVINGSTON AVE.
SEE SHEET 847

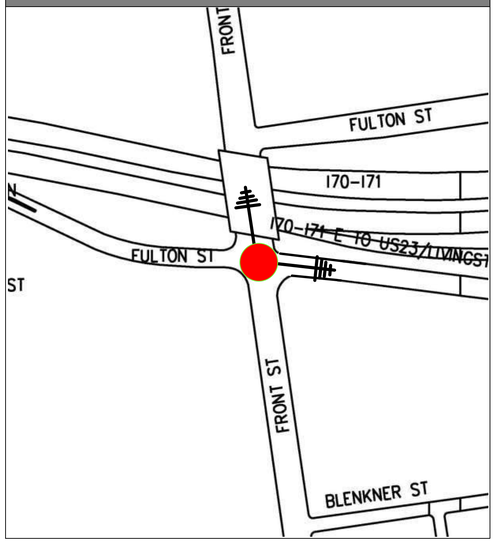




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0090

REFER TO SHEET 172 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0090: FRONT ST. AT FULTON ST. & LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

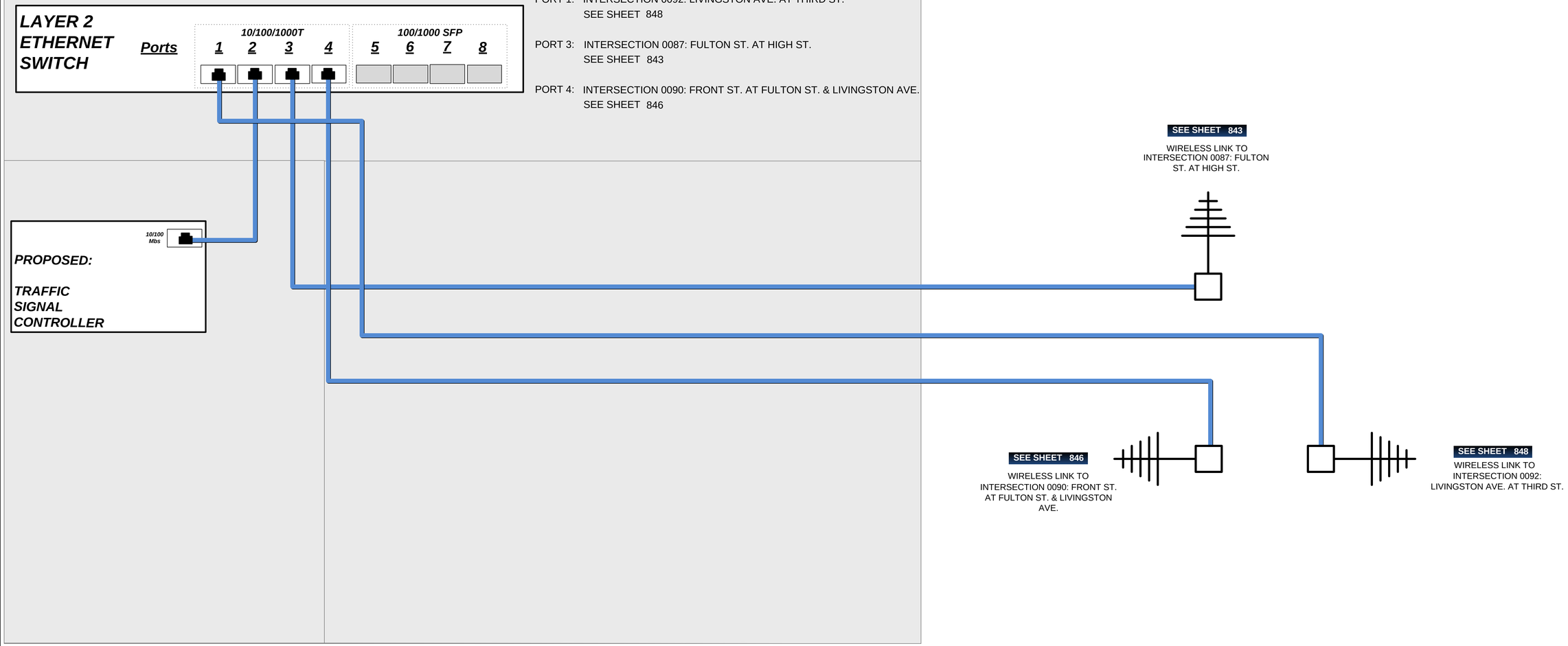
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 0092: LIVINGSTON AVE. AT THIRD ST.
SEE SHEET 848

PORT 3: INTERSECTION 0087: FULTON ST. AT HIGH ST.
SEE SHEET 843

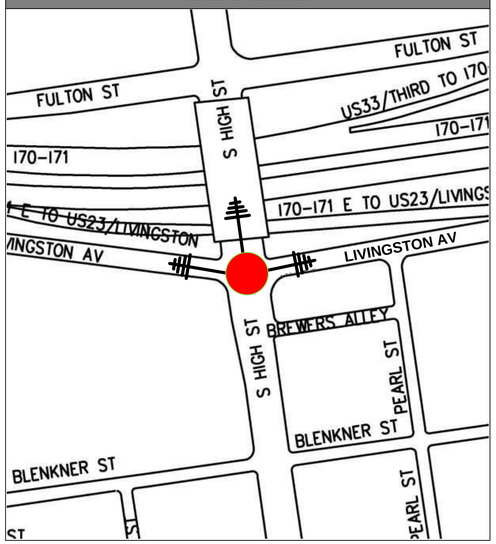
PORT 4: INTERSECTION 0090: FRONT ST. AT FULTON ST. & LIVINGSTON AVE.
SEE SHEET 846



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0091

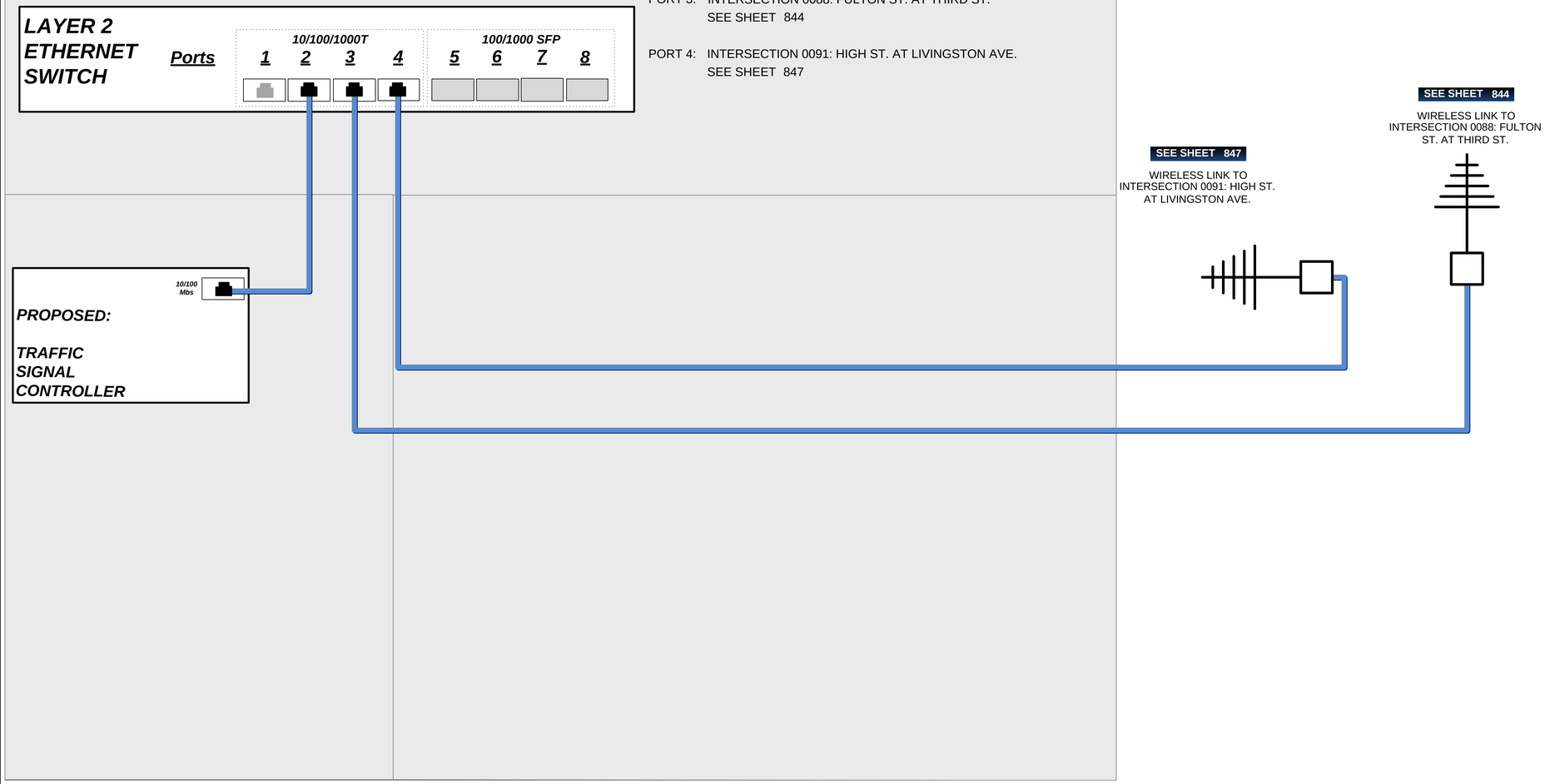
REFER TO SHEET 170 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0091: HIGH ST. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

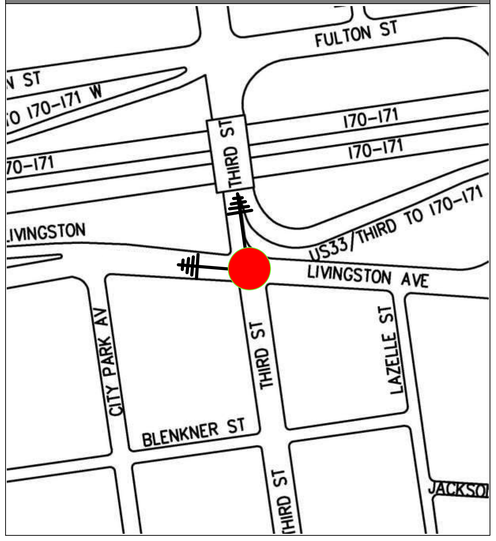
PORT 3: INTERSECTION 0088: FULTON ST. AT THIRD ST.
SEE SHEET 844

PORT 4: INTERSECTION 0091: HIGH ST. AT LIVINGSTON AVE.
SEE SHEET 847

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0092

REFER TO SHEET 176 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0092: LIVINGSTON AVE. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0033: FRONT ST. AT GAY ST.
SEE SHEET 791

PORT 6: INTERSECTION 0062: S. HIGH ST. AT TOWN ST.
SEE SHEET 818

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0034: GAY ST. AT HIGH ST.
SEE SHEET 792

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

144-FIBER TRUNK CABLE

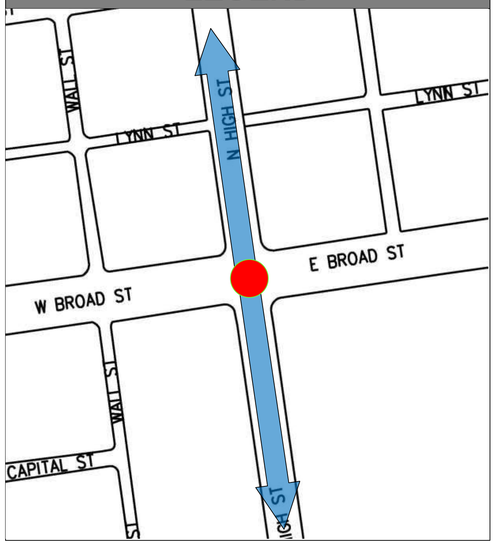
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 812
INTERSECTION 0055: HIGH ST. AT STATE ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0093

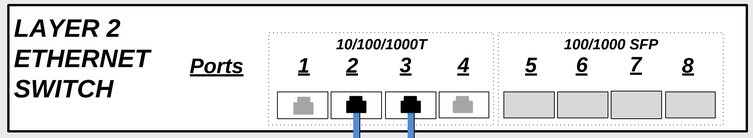
REFER TO SHEET 115 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0093: BROAD ST. AT N. HIGH ST.
COMMUNICATIONS DIAGRAM

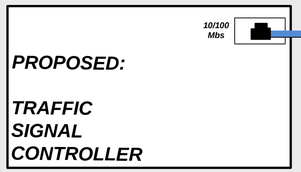
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

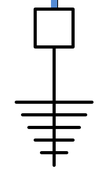
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0078: FIFTH ST. AT E. MAIN ST.
SEE SHEET 834





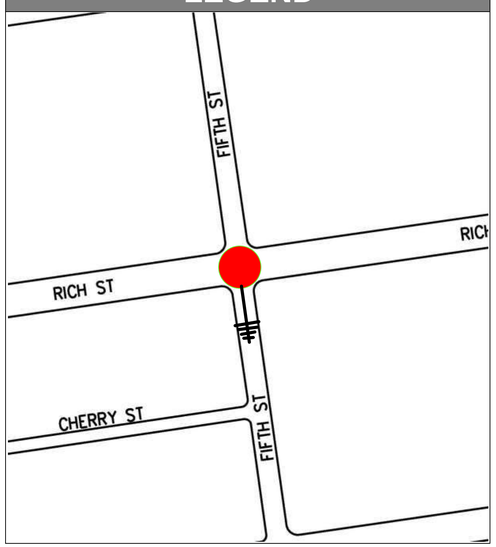
SEE SHEET 834

WIRELESS LINK TO
INTERSECTION 0078: FIFTH ST.
AT E. MAIN ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0094

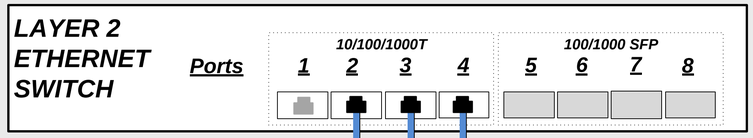
REFER TO SHEET 178 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0094: FIFTH ST. AT RICH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

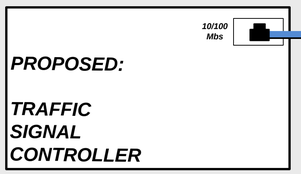
TRAFFIC SIGNAL CABINET ASSEMBLY

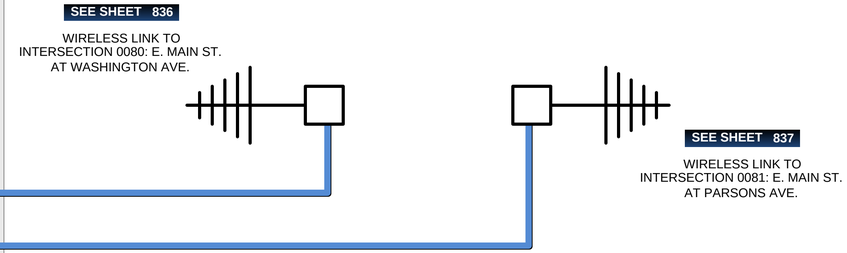


ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0081: E. MAIN ST. AT PARSONS AVE.
SEE SHEET 837

PORT 4: INTERSECTION 0080: E. MAIN ST. AT WASHINGTON AVE.
SEE SHEET 836

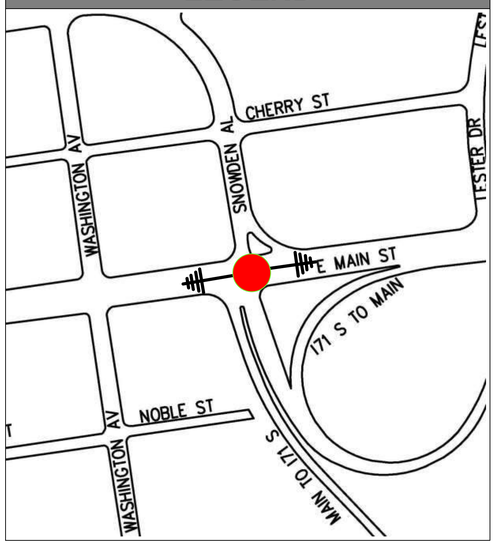




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0095

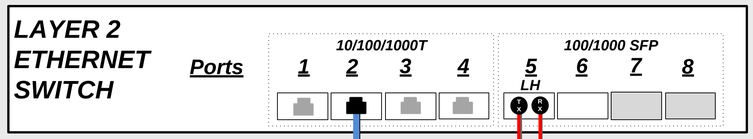
REFER TO SHEET 149 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0095: I-71 SB ON & OFF RAMP AT MAIN ST.
COMMUNICATIONS DIAGRAM

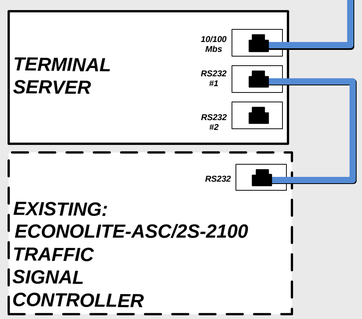
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

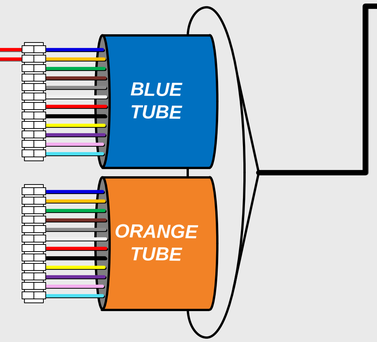


ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0073: MAIN ST. AT SECOND ST.
SEE SHEET 829

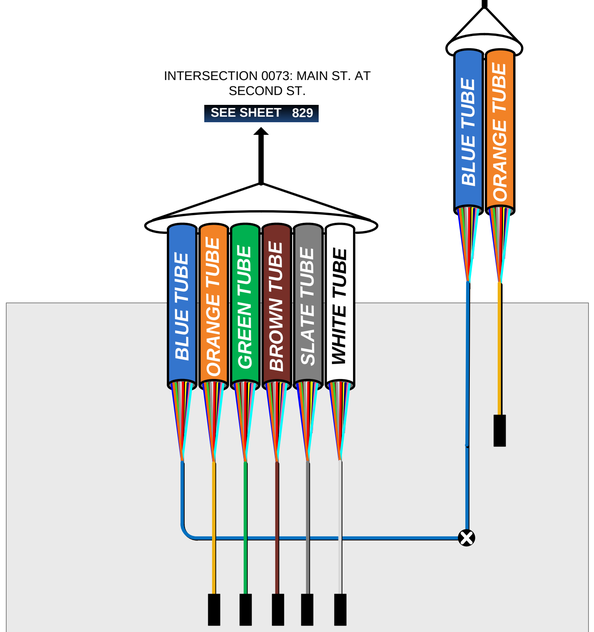


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION 0073: MAIN ST. AT
SECOND ST.
SEE SHEET 829

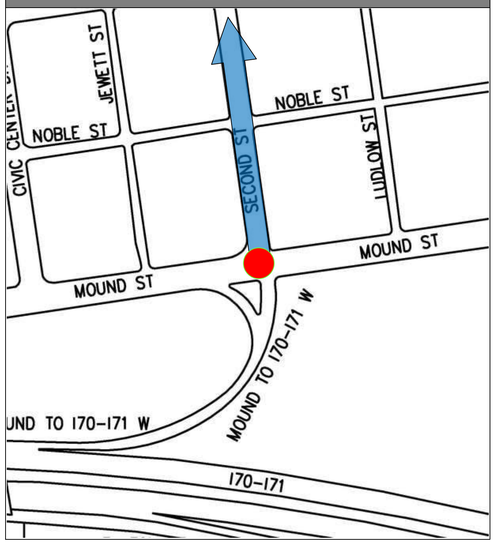


SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0096

REFER TO SHEET 173 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0096: MOUND ST. AT SECOND ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0041: BROAD ST. AT THIRD ST.
SEE SHEET 798

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

DO NOT CONNECT TO SWITCH
RADIO INSTALLATION FOR FUTURE USE ONLY

SEE SHEET 793

WIRELESS LINK TO
INTERSECTION 0035: GAY ST. AT
THIRD ST.

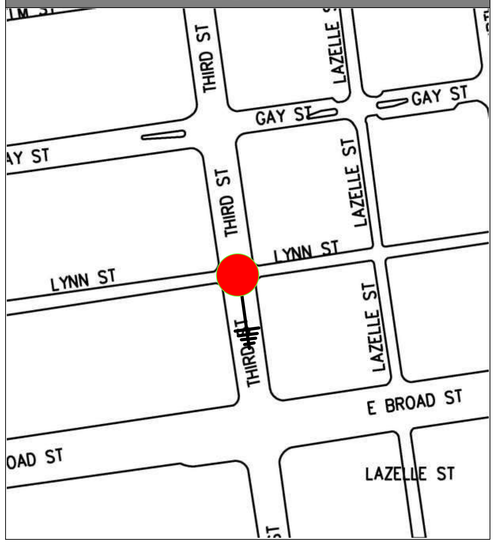
SEE SHEET 798

WIRELESS LINK TO
INTERSECTION 0041: BROAD ST.
AT THIRD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0098

REFER TO SHEET 108 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0098: LYNN ALLEY AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4075: NEIL AVE. AT VINE ST.
SEE SHEET 921

PORT 6: EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/DUBLIN RD.
SEE SHEET 1102

EXISTING CCTV SITE NATIONWIDE BLVD. AT NEIL AVE.

REFER TO SHEET 184 FOR CONSTRUCTION PLAN DETAILS

CCTV FIELD BOX

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

EXISTING CCTV CABINET

COMPOSITE CCTV CABLE

PROPOSED CCTV

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS485 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

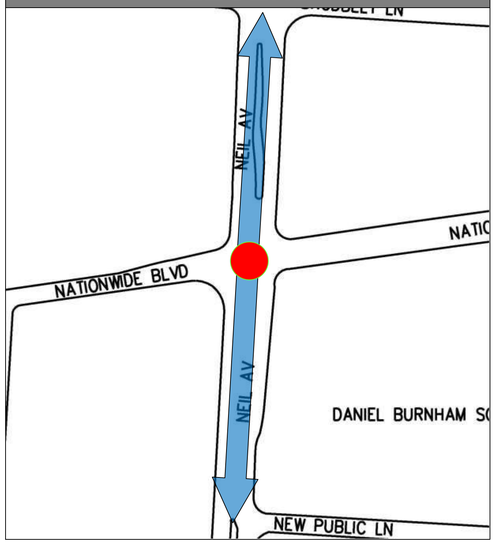
MATCHLINE 'A' - SEE SHEET 854A
TO SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0099

REFER TO SHEET 184 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0099: NATIONWIDE BLVD. AT NEIL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 854

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

INTERSECTION 0113: BRODBELT LN. AT NEIL AVE.
SEE SHEET 865

144 STRAND FOC INTERCONNECT TRUNK CABLE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE
SEE SHEET 764
INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SPLICE ENCLOSURE IN
EXISTING 32" PULL BOX
5 CABLE ENTRIES
132 FUSION SPLICES
4 COILED BUFFER TUBES
7 BUFFER TUBES PASSED THROUGH UNSPLICED

144 STRAND FOC INTERCONNECT TRUNK CABLE
SEE SHEET 771
INTERSECTION 0012 & 0032: LONG ST. AND SPRING ST. AT NEIL AVE.

INTERSECTION 0099

PID NUMBER 13034
2762 DR. E

INTERSECTION 0099: NATIONWIDE BLVD. AT NEIL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: EXISTING COMMUNICATION NODE 315001.3-2: SR-315 AT US-33/ DUBLIN RD.

SEE SHEET 1103

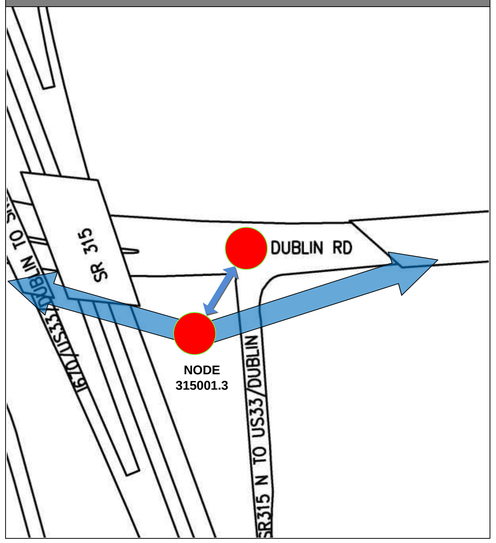
SEE SHEET 1103

EXISTING COMMUNICATION NODE 315001.3-2: SR-315 AT US-33/DUBLIN RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0101

REFER TO SHEET 297 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0101: DUBLIN RD. AT SR-315 NB
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/DUBLIN RD.
SEE SHEET 1103

PORT 6: INTERSECTION 0104: DUBLIN RD. AT I-670 WB ON RAMP
SEE SHEET 858

EXISTING CCTV SITE DUBLIN RD AT SR-315

REFER TO SHEET 184 FOR CONSTRUCTION PLAN DETAILS

EXISTING CCTV CABINET

CCTV FIELD BOX

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

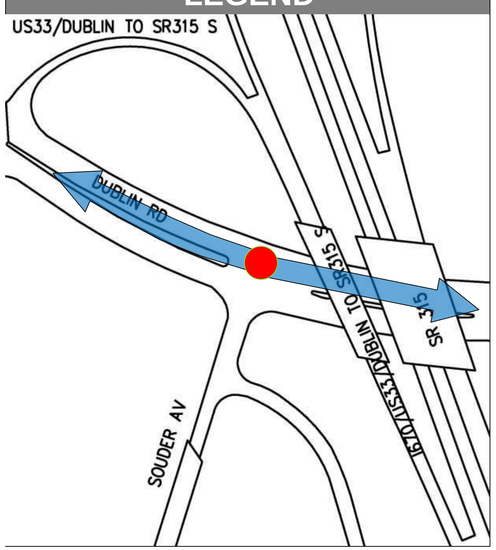
SEE SHEET 857
INTERSECTION 0103: DUBLIN RD. AT SR 315 SB ON RAMP & I-670 EB OFF RAMP

SEE SHEET 1103
EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/DUBLIN RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0102

REFER TO SHEET 298 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0102: DUBLIN RD. AT SOUDER AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/DUBLIN RD.
SEE SHEET 1103

PORT 6: INTERSECTION 0105: DUBLIN RD. AT TWIN RIVERS DR.
SEE SHEET 859

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

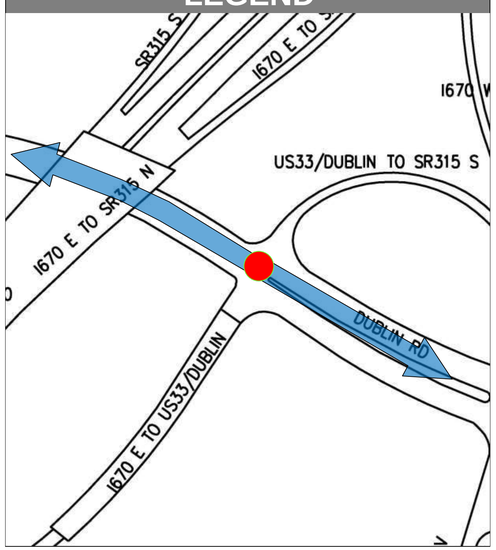
SEE SHEET 858
INTERSECTION 0104: DUBLIN RD. AT I-670 WB ON RAMP

SEE SHEET 856
INTERSECTION 0102: DUBLIN RD. AT SOUDER AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

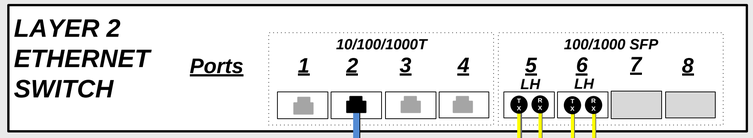
INTERSECTION 0103
REFER TO SHEET 299 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0103: DUBLIN RD. AT SR 315 SB ON RAMP & I-670 EB OFF RAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

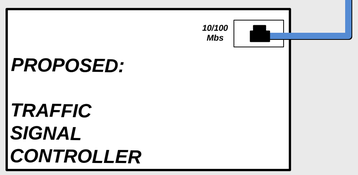
TRAFFIC SIGNAL CABINET ASSEMBLY



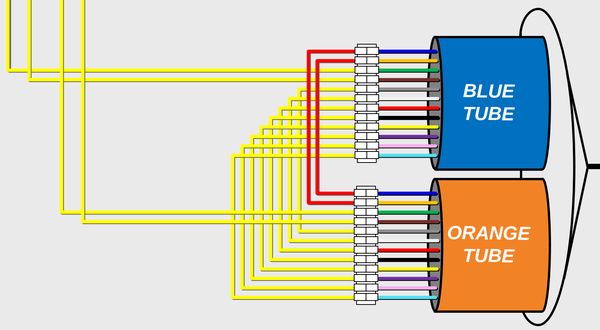
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0102: DUBLIN RD. AT SOUDER AVE.
SEE SHEET 856

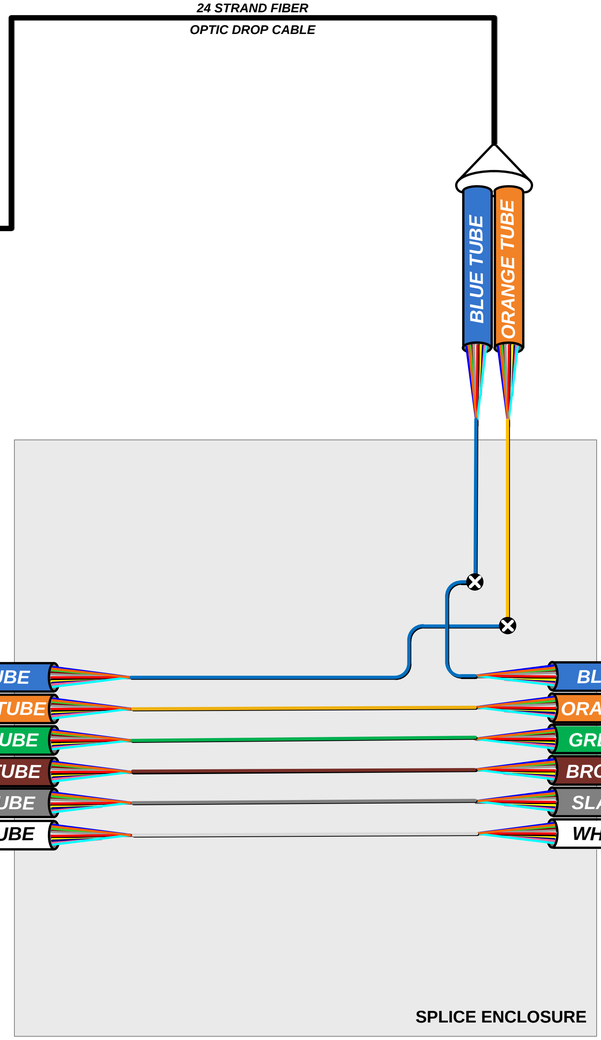
PORT 6: INTERSECTION 0105: DUBLIN RD. AT TWIN RIVERS DR.
SEE SHEET 859



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE



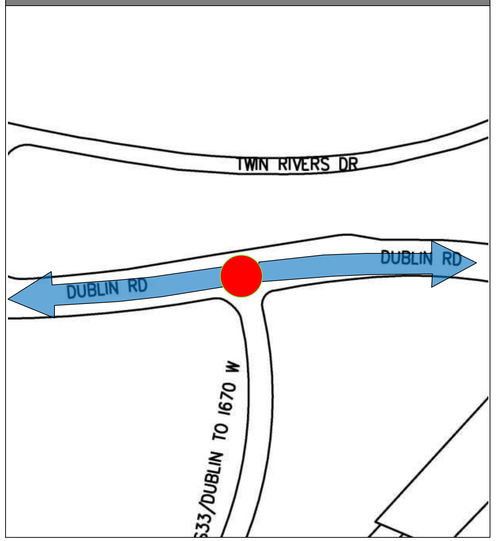
SEE SHEET 859
INTERSECTION 0105:
DUBLIN RD. AT TWIN
RIVERS DR.

SEE SHEET 857
INTERSECTION 0103:
DUBLIN RD. AT SR 315
SB ON RAMP & I-670 EB
OFF RAMP

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0104

REFER TO SHEET 300 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0104: DUBLIN RD. AT I-670 WB ON RAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0103: DUBLIN RD. AT SR 315 SB ON RAMP & I-670 EB OFF RAMP
SEE SHEET 857

PORT 6: INTERSECTION 0104: DUBLIN RD. AT I-670 WB ON RAMP
SEE SHEET 858

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

SPLICE ENCLOSURE

BLUE TUBE

ORANGE TUBE

- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

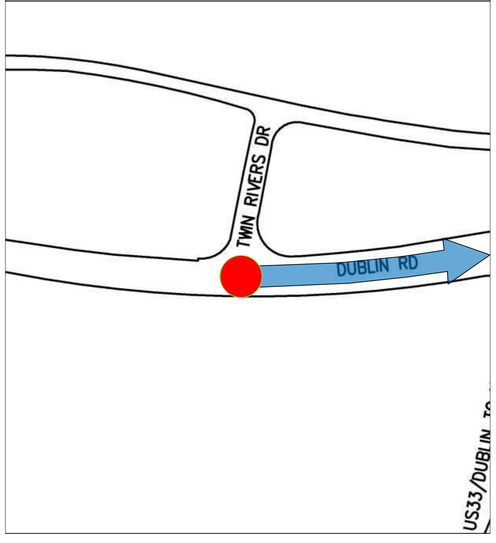
TO FRANKLIN COUNTY ENGINEER'S OFFICE

SEE SHEET 858
INTERSECTION 0104: DUBLIN RD. AT I-670 WB ON RAMP

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0105

REFER TO SHEET 301 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0105: DUBLIN RD. AT TWIN RIVERS DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH — **Ports**

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4067: GOODALE ST. AT PARK ST.
SEE SHEET 917

PORT 6: INTERSECTION 4075: NEIL AVE. AT VINE ST.
SEE SHEET 921

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2
- RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE
24 STRAND FIBER OPTIC DROP CABLE

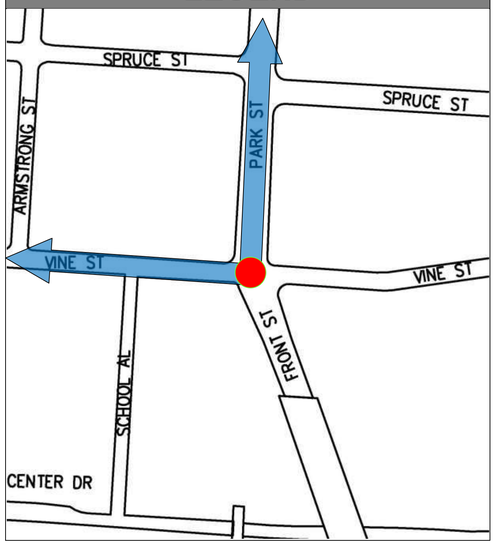
MATCHLINE 'A' - SEE SHEET 860A
TO SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES : (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0106
REFER TO SHEET 179 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0106: FRONT ST. & PARK ST. AT VINE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 4067:
GOODALE ST. AT PARK ST.

SEE SHEET 917

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 860

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC
DROP CABLE

BLUE TUBE
ORANGE TUBE

INTERSECTION 0112:
KILBOURNE ST. AT VINE ST.

SEE SHEET 864

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SPLICE ENCLOSURE IN
EXISTING 32" PULL BOX
5 CABLE ENTRIES
180 FUSION SPLICES
8 COILED BUFFER TUBES
1 BUFFER TUBE PASSED THROUGH UNSPLICED

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 764

INTERSECTION 0004: FRONT
ST. AT NATIONWIDE BLVD.

PID NUMBER 13034
2762 DR. E

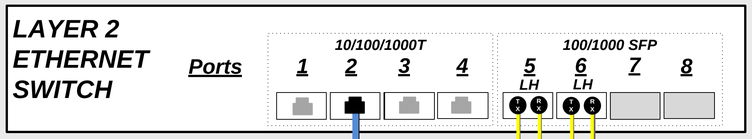
INTERSECTION 0106: FRONT ST. & PARK ST. AT VINE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

860A
1107

INTERSECTION 0106

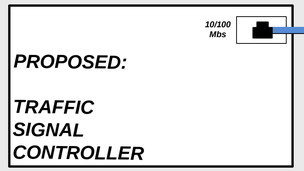
TRAFFIC SIGNAL CABINET ASSEMBLY



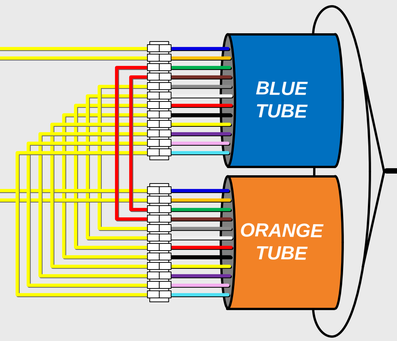
ETHERNET SWITCH PORT DESTINATION

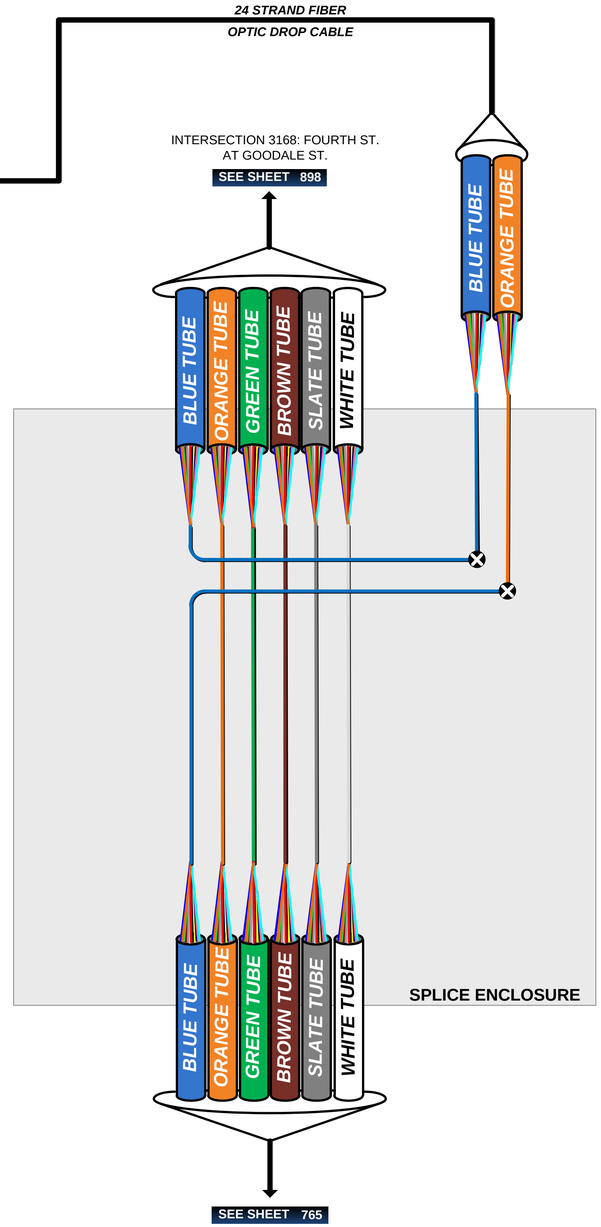
PORT 5: INTERSECTION 3168: FOURTH ST. AT GOODALE ST.
SEE SHEET 898

PORT 6: INTERSECTION 0008: CHESTNUT ST. AT HIGH ST.
SEE SHEET 768



PATCH PANEL ENCLOSURE - 24 TERMINATION

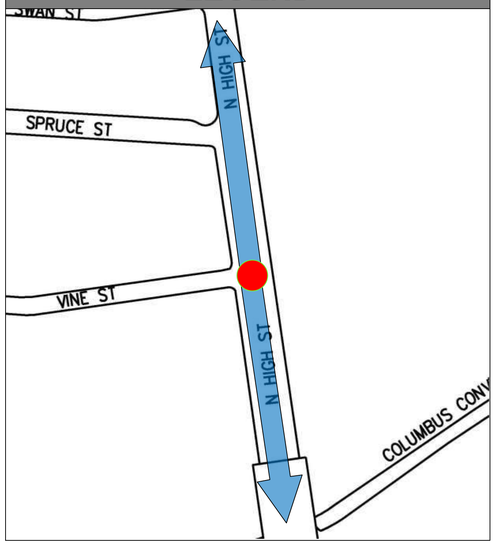




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0005: HIGH ST. AT NATIONWIDE BLVD.

INTERSECTION 0107

REFER TO SHEET 180 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0107: HIGH ST. AT VINE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0014: FRONT ST. AT SPRING ST.
SEE SHEET 773

PORT 5: INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.
SEE SHEET 764

PORT 6: INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.
SEE SHEET 764

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE - 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

SEE SHEET 773

WIRELESS LINK TO INTERSECTION 0014: FRONT ST. AT SPRING ST.

INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.

SEE SHEET 764

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

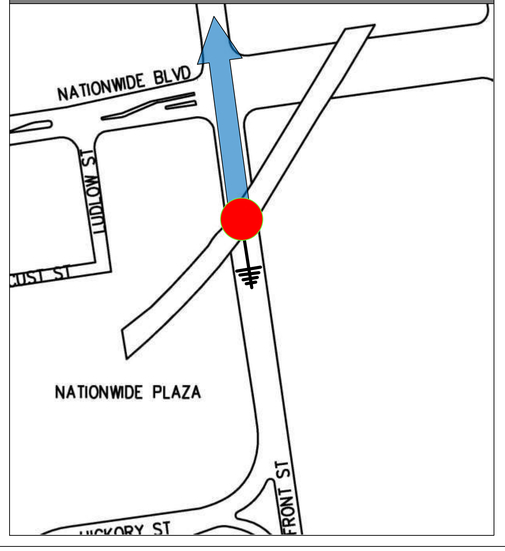
BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0108

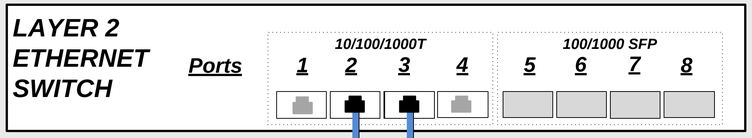
REFER TO SHEET 181 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0108: FRONT ST. AT NATIONWIDE GARAGE
COMMUNICATIONS DIAGRAM

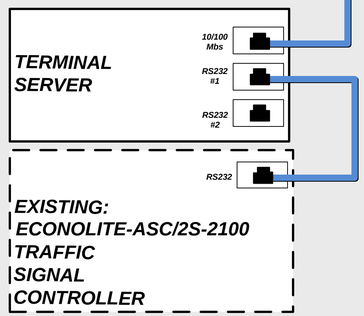
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

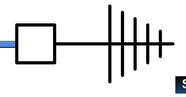
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 0013: MARCONI BLVD. AT SPRING ST.
SEE SHEET 772





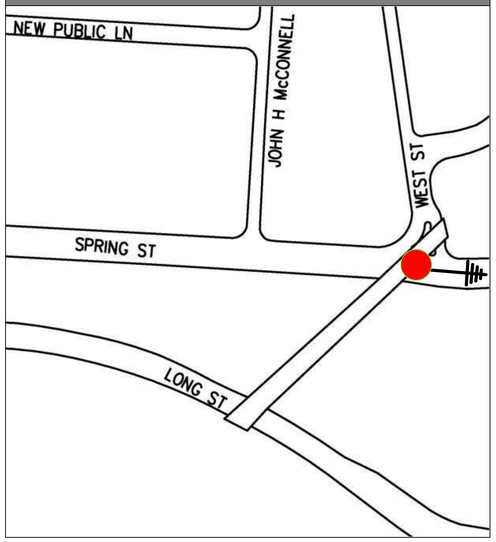
SEE SHEET 772

WIRELESS LINK TO
INTERSECTION 0013: MARCONI
BLVD. AT SPRING ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0109

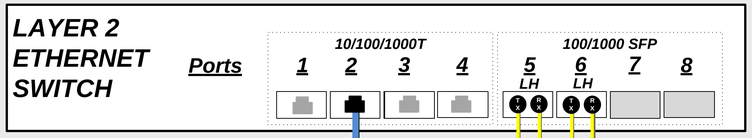
REFER TO SHEET 182 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0109: SPRING ST. AT WEST ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

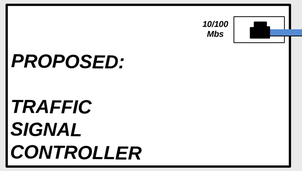
TRAFFIC SIGNAL CABINET ASSEMBLY

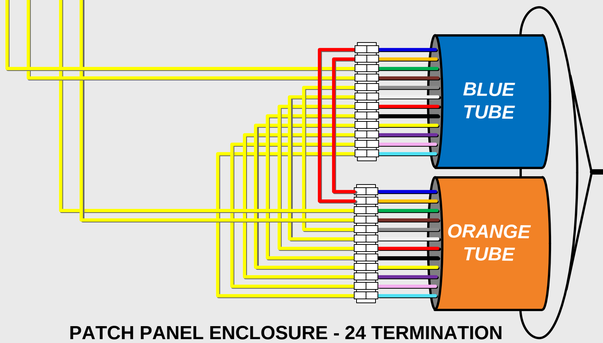


ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4067: GOODALE ST. AT PARK ST.
SEE SHEET 917

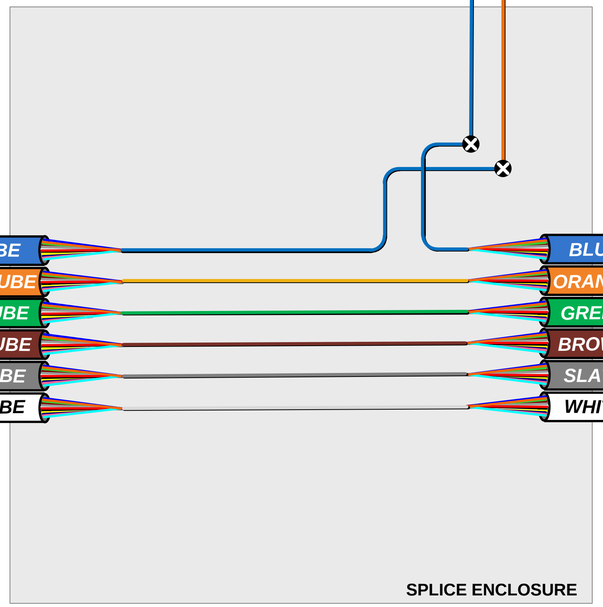
PORT 6: INTERSECTION 4246: GOODALE ST. AT VINE ST. & MICHIGAN AVE.
SEE SHEET 983





PATCH PANEL ENCLOSURE - 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE



SPLICE ENCLOSURE

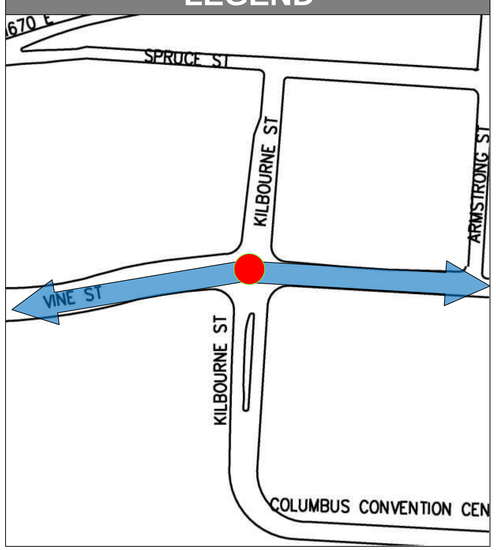
SEE SHEET 921
INTERSECTION 4075: NEIL AVE. AT VINE ST.

SEE SHEET 860
INTERSECTION 0106: FRONT ST. & PARK ST. AT VINE ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

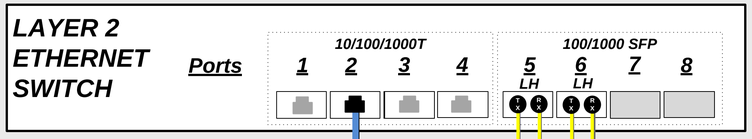
INTERSECTION 0112
REFER TO SHEET 188 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0112: KILBOURNE ST. AT VINE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

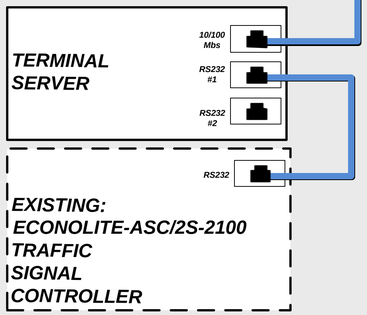
TRAFFIC SIGNAL CABINET ASSEMBLY



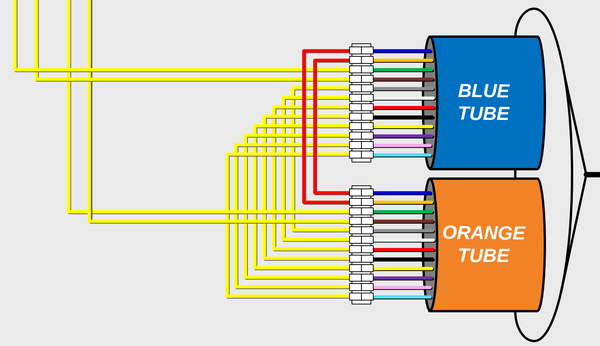
ETHERNET SWITCH PORT DESTINATION

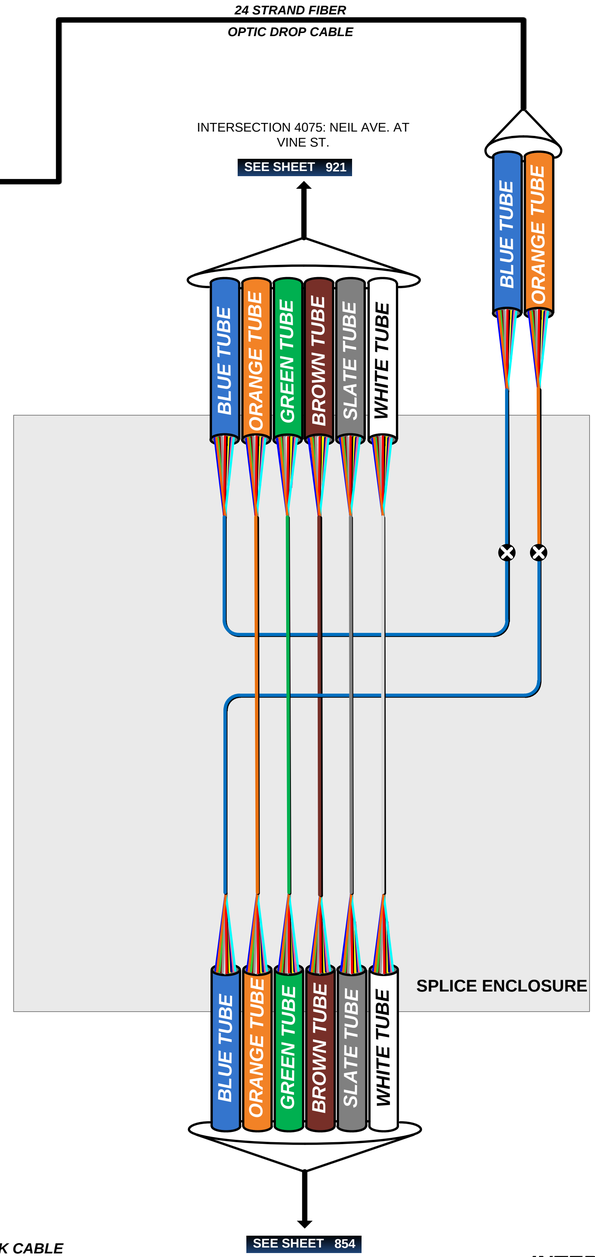
PORT 5: INTERSECTION 4066: NEIL AVE. AT SPRUCE ST.
SEE SHEET 916

PORT 6: EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/DUBLIN RD.
SEE SHEET 1102



PATCH PANEL ENCLOSURE - 24 TERMINATION





144-FIBER TRUNK CABLE

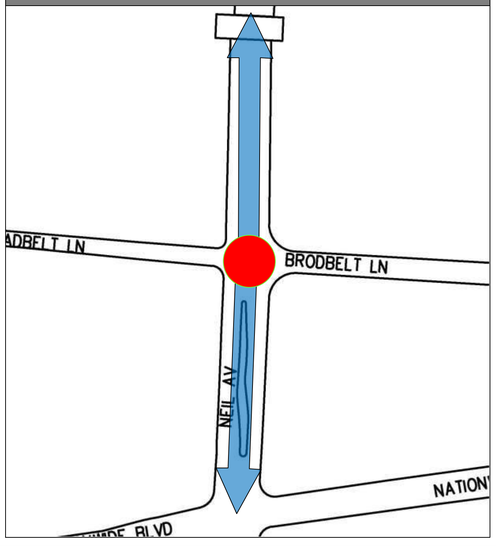
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 0099: NATIONWIDE
BLVD. AT NEIL AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0113

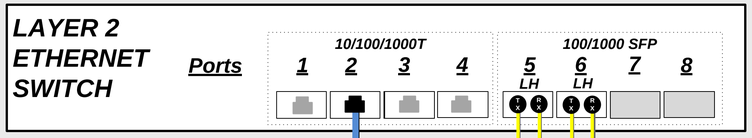
REFER TO SHEET 185 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0113: BRODBELT LN. AT NEIL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

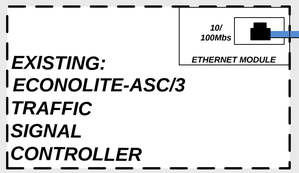
TRAFFIC SIGNAL CABINET ASSEMBLY



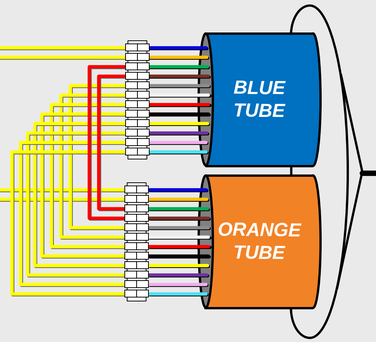
ETHERNET SWITCH PORT DESTINATION

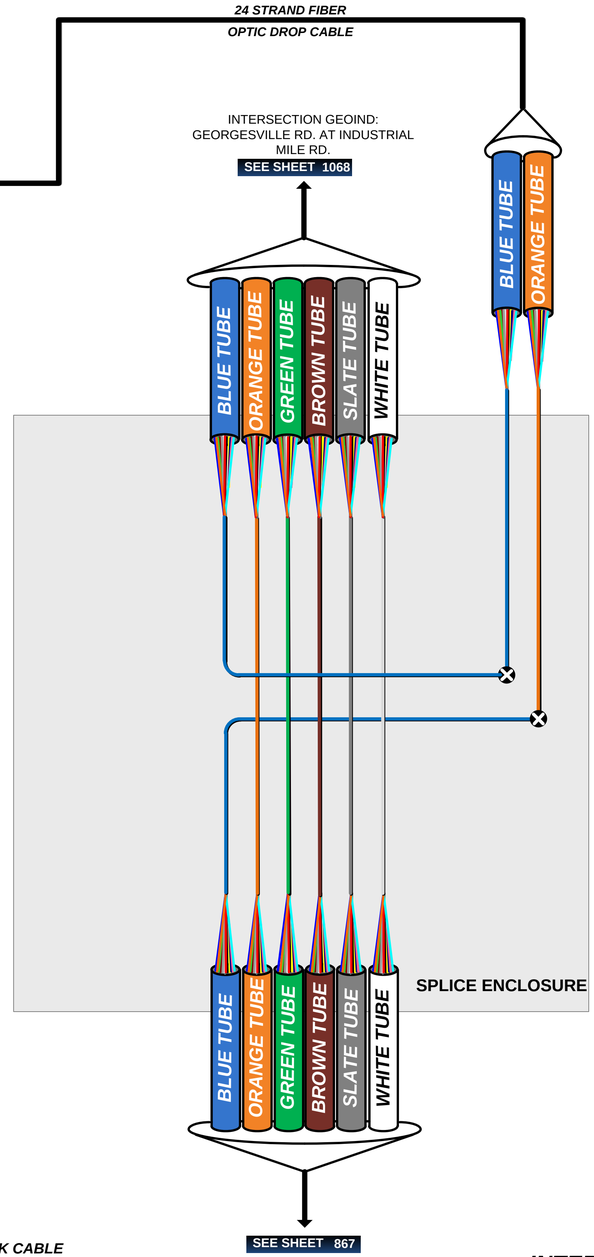
PORT 5: INTERSECTION SIG4140: GEORGESVILLE RD. AT LINCOLN PARK CT.
SEE SHEET 1069

PORT 6: INTERSECTION 1036: GEORGESVILLE RD. AT SULLIVANT AVE. SOUTH
SEE SHEET 868



PATCH PANEL ENCLOSURE – 24 TERMINATION

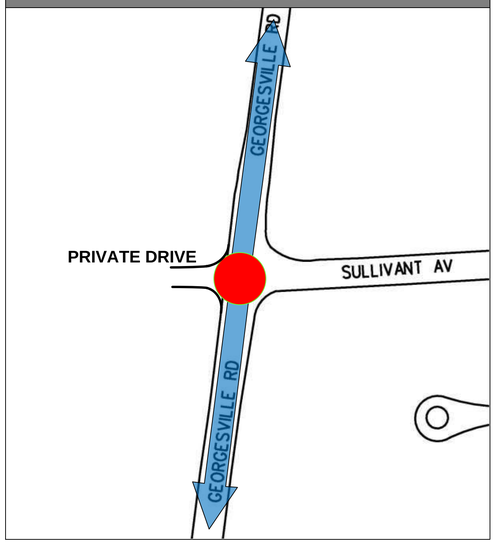




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 867
INTERSECTION 1035: ATLANTA DR. AT GEORGESVILLE RD.

INTERSECTION 1034

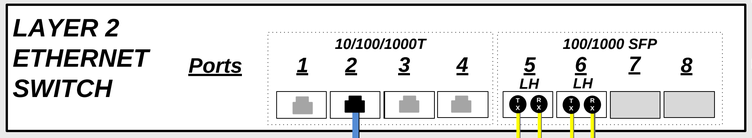
REFER TO SHEET 359 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1034: GEORGESVILLE RD. AT SULLIVANT AVE. NORTH
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

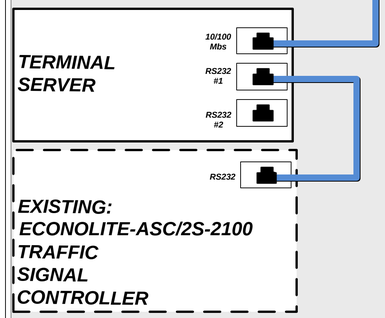
TRAFFIC SIGNAL CABINET ASSEMBLY



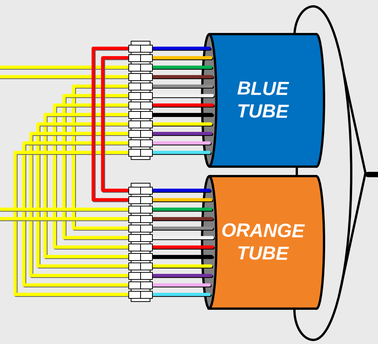
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION GEOIND: GEORGESVILLE RD. AT INDUSTRIAL MILE RD.
SEE SHEET 1068

PORT 6: INTERSECTION 1052: CLIME RD. NORTH AT GEORGESVILLE RD.
SEE SHEET 869



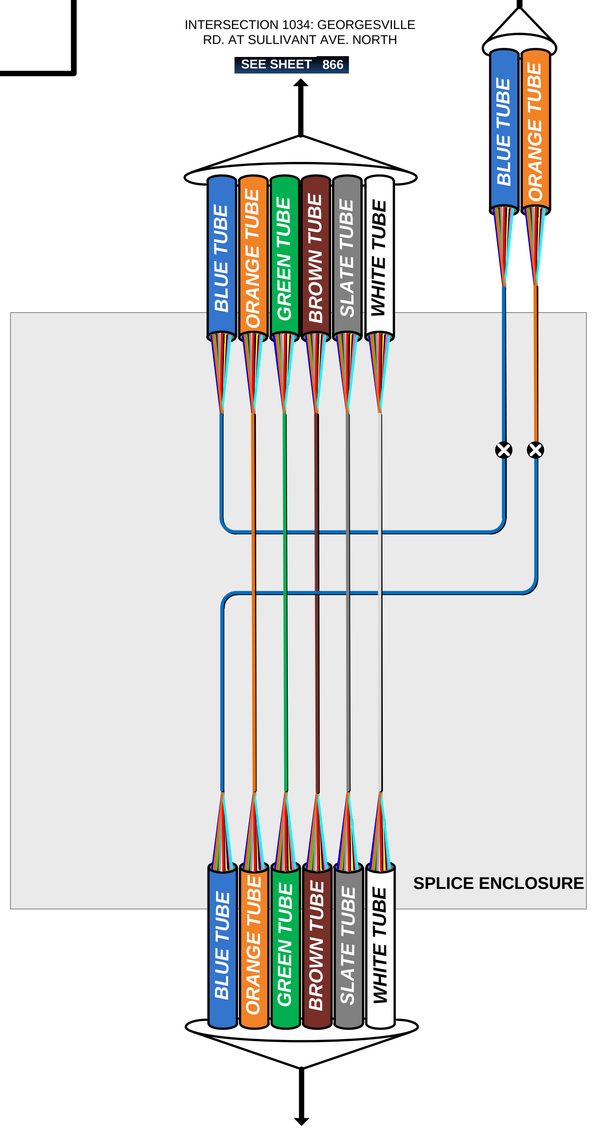
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 1034: GEORGESVILLE RD. AT SULLIVANT AVE. NORTH

SEE SHEET 866



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

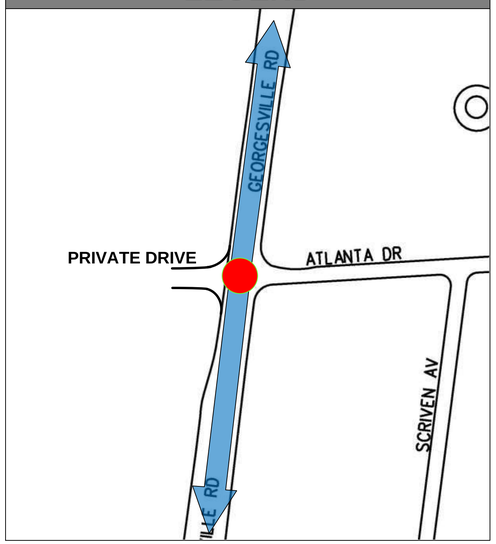
SEE SHEET 868

INTERSECTION 1036: GEORGESVILLE RD. AT SULLIVANT AVE. SOUTH

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 1035

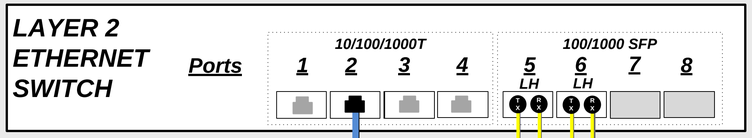
REFER TO SHEET 360 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1035: ATLANTA DR. AT GEORGESVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

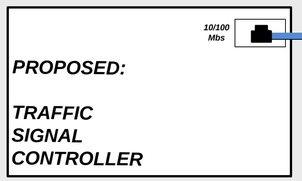
TRAFFIC SIGNAL CABINET ASSEMBLY



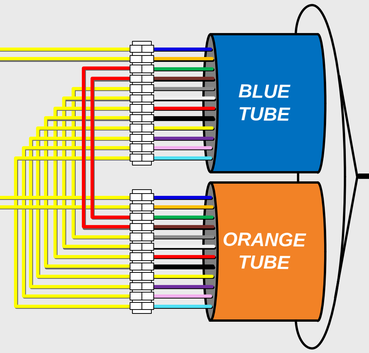
ETHERNET SWITCH PORT DESTINATION

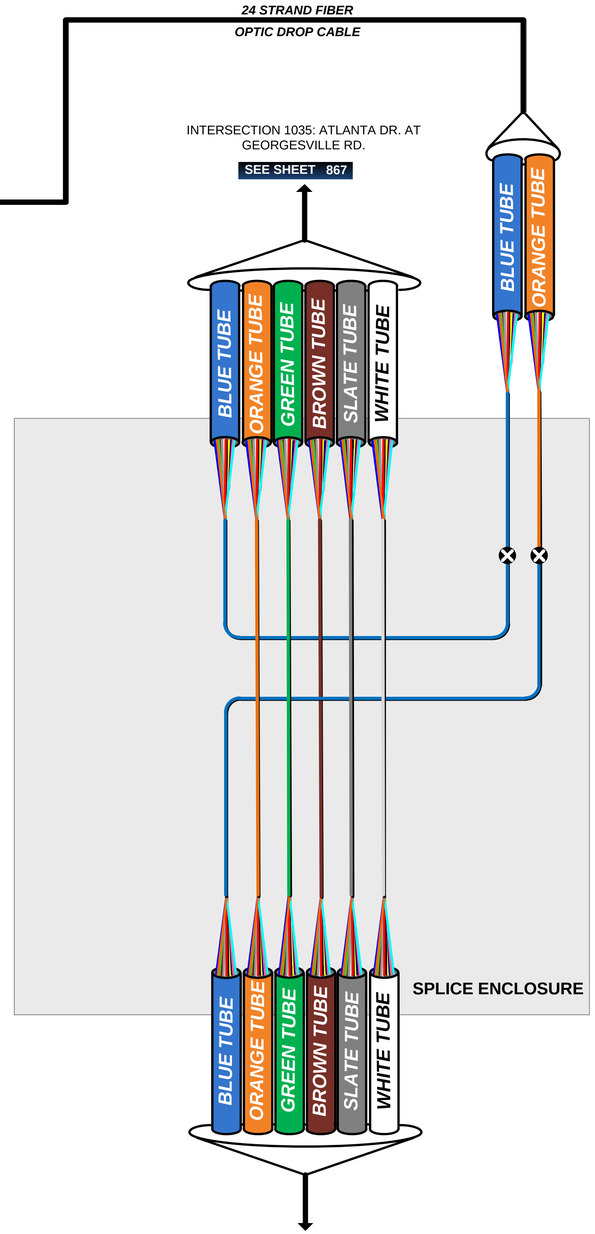
PORT 5: INTERSECTION 1034: GEORGESVILLE RD. AT SULLIVANT AVE. NORTH
SEE SHEET 866

PORT 6: INTERSECTION 1053: CLIME RD. AT GEORGESVILLE RD.
SEE SHEET 870



PATCH PANEL ENCLOSURE – 24 TERMINATION

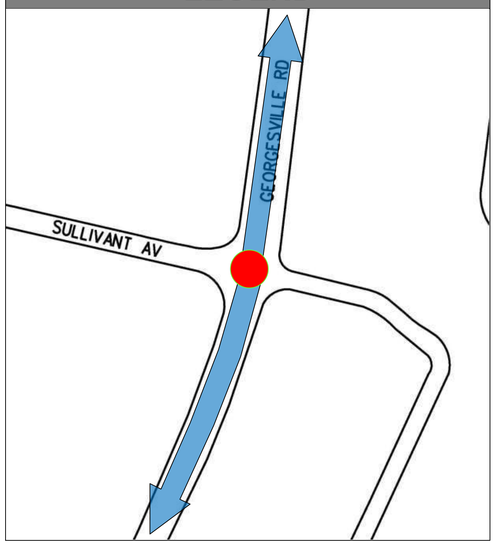




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 1036

REFER TO SHEET 362 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1036: GEORGESVILLE RD. AT SULLIVANT AVE. SOUTH
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 1035: ATLANTA DR. AT GEORGESVILLE RD.
SEE SHEET 867

PORT 6: INTERSECTION 1103: GEORGESVILLE RD. AT HALL RD.
SEE SHEET 875

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 1036: GEORGESVILLE RD. AT SULLIVANT AVE. SOUTH

SEE SHEET 868

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

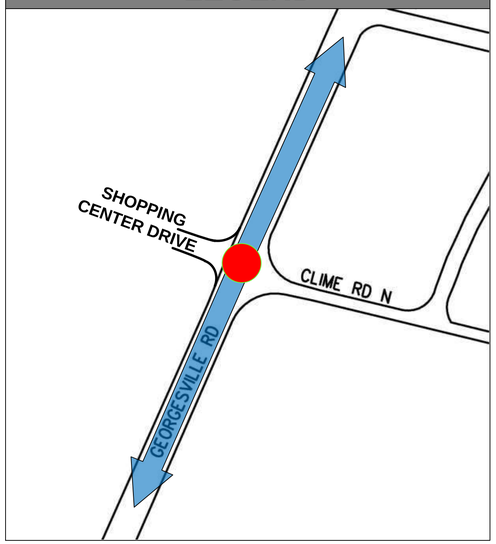
SEE SHEET 870

INTERSECTION 1053: CLIME RD. AT GEORGESVILLE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 1052

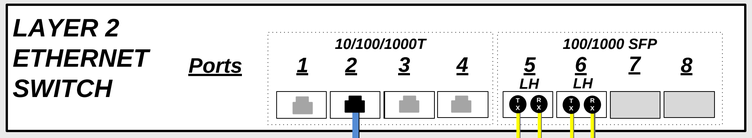
REFER TO SHEET 358 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1052: CLIME RD. NORTH AT GEORGESVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

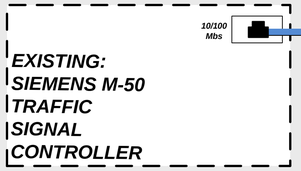
TRAFFIC SIGNAL CABINET ASSEMBLY



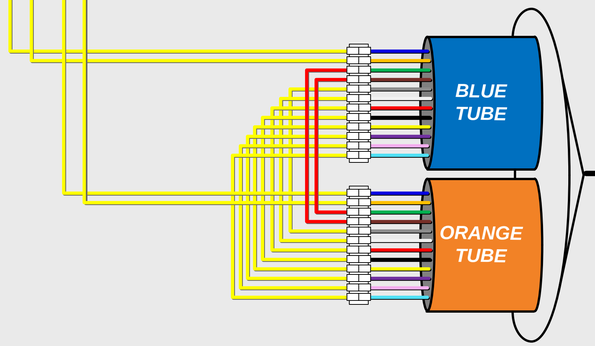
ETHERNET SWITCH PORT DESTINATION

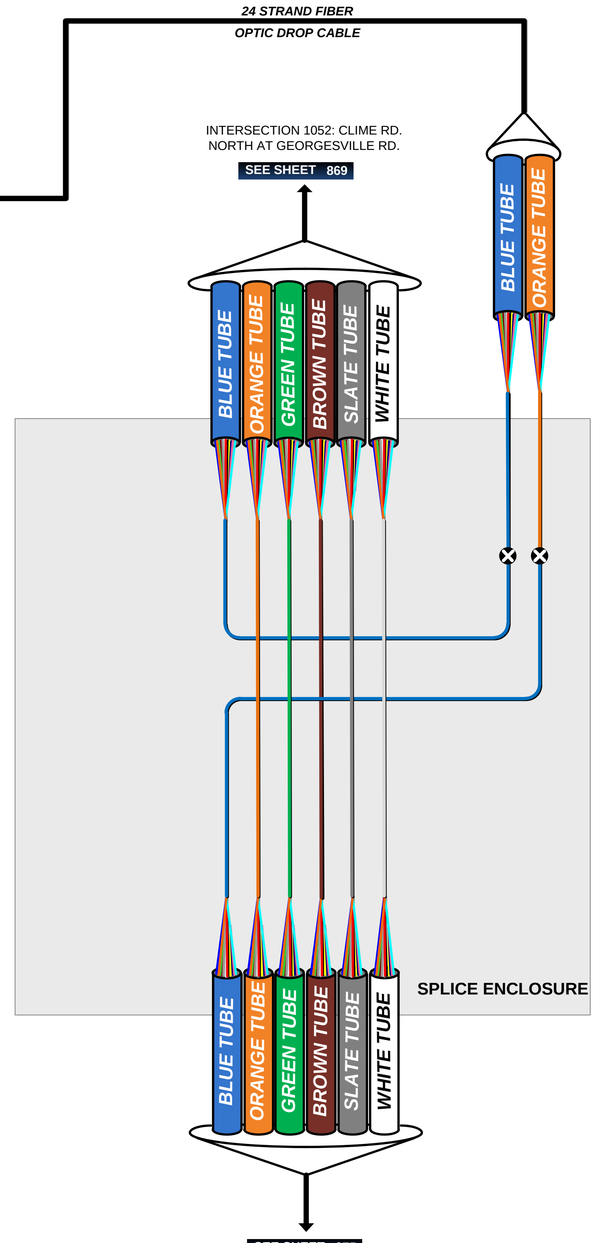
PORT 5: INTERSECTION 1036: GEORGESVILLE RD. AT SULLIVANT AVE. SOUTH
SEE SHEET 868

PORT 6: INTERSECTION 1101: GEORGESVILLE RD. AT PARKWICK DR.
SEE SHEET 874



PATCH PANEL ENCLOSURE – 24 TERMINATION

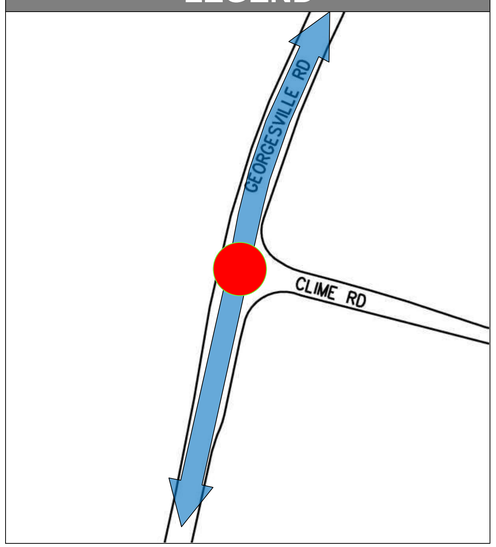




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 1053

REFER TO SHEET 354 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1053: CLIME RD. AT GEORGESVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8
10/100 MBS		10/100 MBS	10/100 MBS				

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 1100: GEORGESVILLE RD. AT I-270 EB RAMPS
SEE SHEET 873

PORT 3: INTERSECTION 1107: HOLT RD. AT HOLT RUN DR.
SEE SHEET 878

PORT 4: INTERSECTION 1105: BOLTONFIELD ST. AT GEORGESVILLE RD.
SEE SHEET 877

SEE SHEET 877
WIRELESS LINK TO INTERSECTION 1105: BOLTONFIELD ST. AT GEORGESVILLE RD.

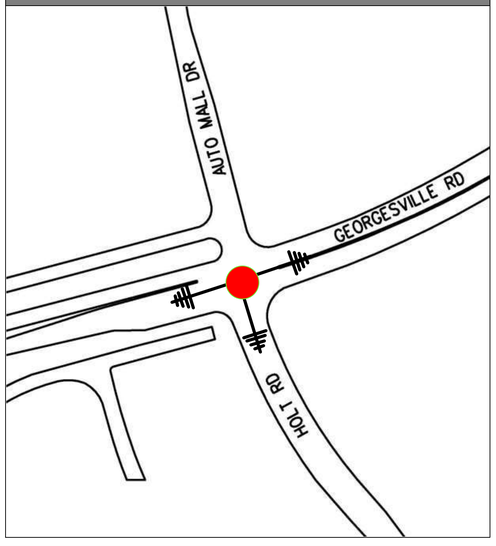
SEE SHEET 873
WIRELESS LINK TO INTERSECTION 1100: GEORGESVILLE RD. AT I-270 EB RAMPS

SEE SHEET 878
WIRELESS LINK TO INTERSECTION 1107: HOLT RD. AT HOLT RUN DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 1096

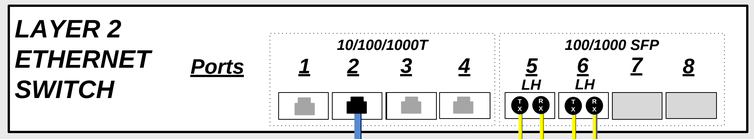
REFER TO SHEET 350 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1096: AUTOMALL DR. & HOLT RD. AT GEORGESVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

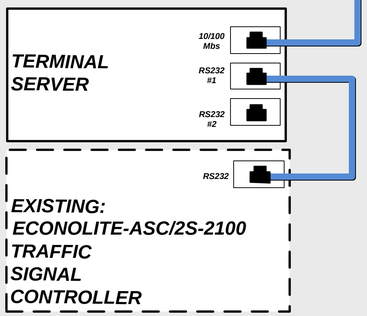
TRAFFIC SIGNAL CABINET ASSEMBLY



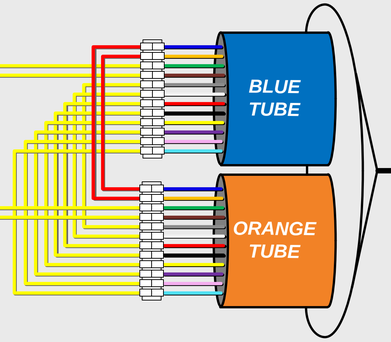
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE 270004.5: I-270 AT GEORGESVILLE RD
SEE SHEET 1082

PORT 6: INTERSECTION 1100: GEORGESVILLE RD. AT I-270 EB RAMPS
SEE SHEET 873



PATCH PANEL ENCLOSURE – 24 TERMINATION



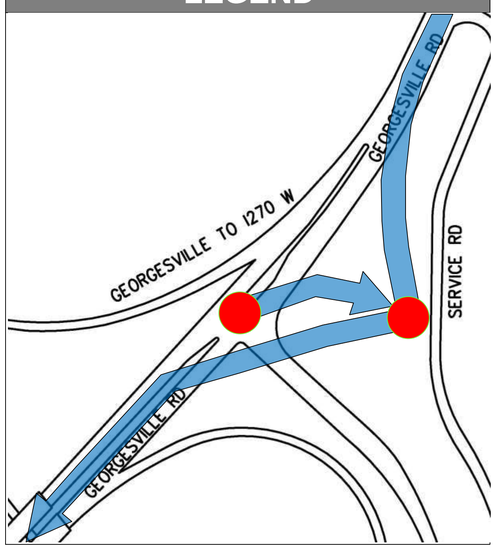
24 STRAND FIBER
OPTIC DROP CABLE

SEE SHEET 1082
PROPOSED
COMMUNICATION NODE
270004.5: I-270 AT
GEORGESVILLE RD

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 1099
REFER TO SHEET 351 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1099: GEORGESVILLE RD. AT I-270 NB RAMPS
COMMUNICATIONS DIAGRAM

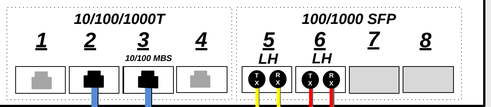
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

872
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports



ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE 270004.5: I-270 AT GEORGESVILLE RD
SEE SHEET 1082

PORT 6: INTERSECTION 1099: GEORGESVILLE RD. AT I-270 NB RAMPS
SEE SHEET 872

PORT 3: INTERSECTION 1096: AUTOMALL DR. & HOLT RD. AT GEORGESVILLE RD.
SEE SHEET 871

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

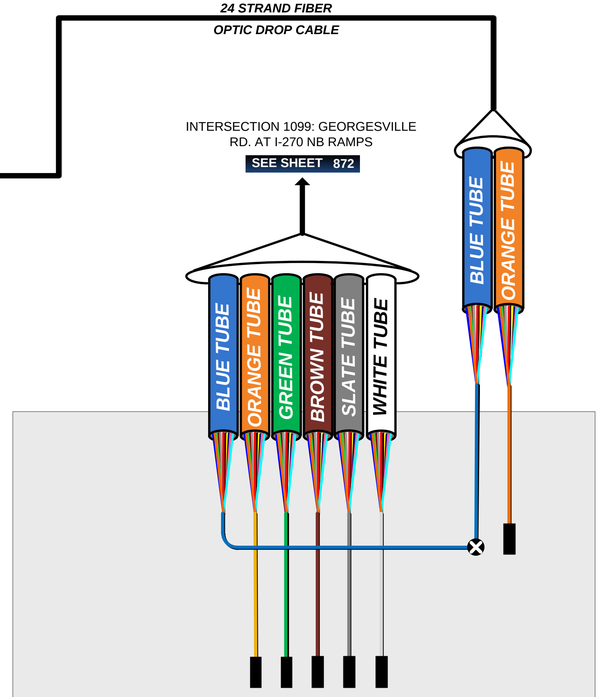
PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 1099: GEORGESVILLE RD. AT I-270 NB RAMPS
SEE SHEET 872



SPLICE ENCLOSURE

SEE SHEET 871

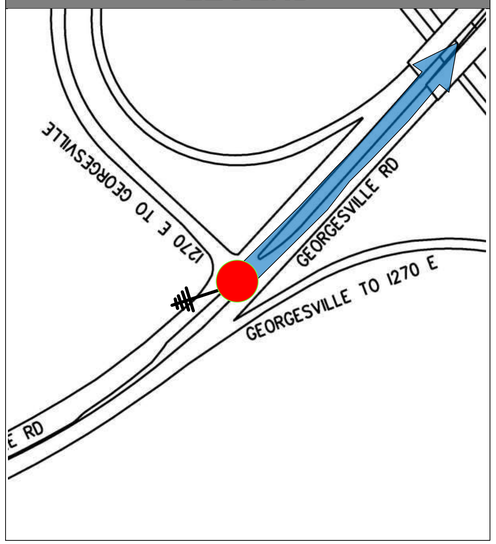
WIRELESS LINK TO

INTERSECTION 1096: AUTOMALL DR. & HOLT RD. AT GEORGESVILLE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 1100
REFER TO SHEET 352 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1100: GEORGESVILLE RD. AT I-270 EB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 1053: CLIME RD. AT GEORGESVILLE RD.
SEE SHEET 870

PORT 6: PROPOSED COMMUNICATION NODE 270004.5-2: I-270 AT GEORGESVILLE RD
SEE SHEET 1083

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 1103: GEORGESVILLE RD. AT HALL RD.

SEE SHEET 875

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

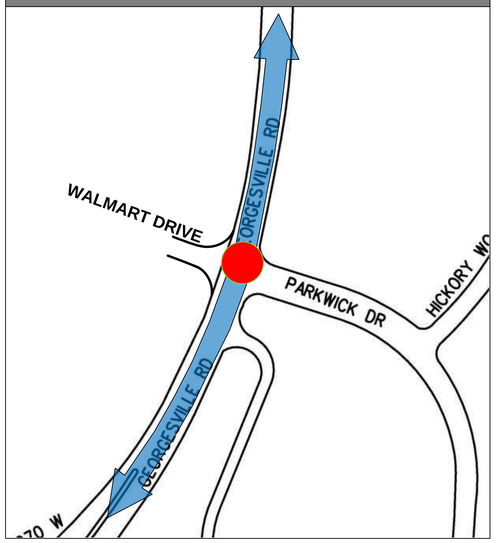
SEE SHEET 1082

PROPOSED COMMUNICATION NODE
270004.5: I-270 AT GEORGESVILLE RD

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 1101

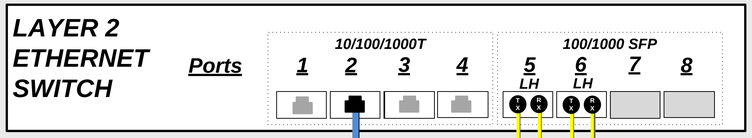
REFER TO SHEET 356 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1101: GEORGESVILLE RD. AT PARKWICK DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

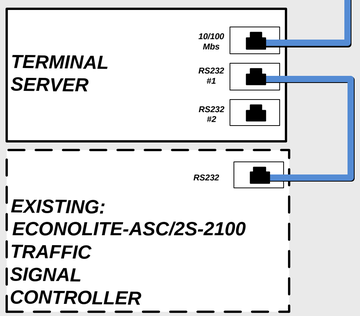
TRAFFIC SIGNAL CABINET ASSEMBLY



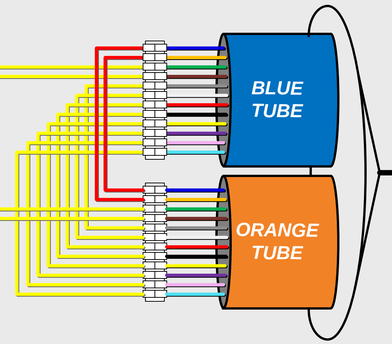
ETHERNET SWITCH PORT DESTINATION

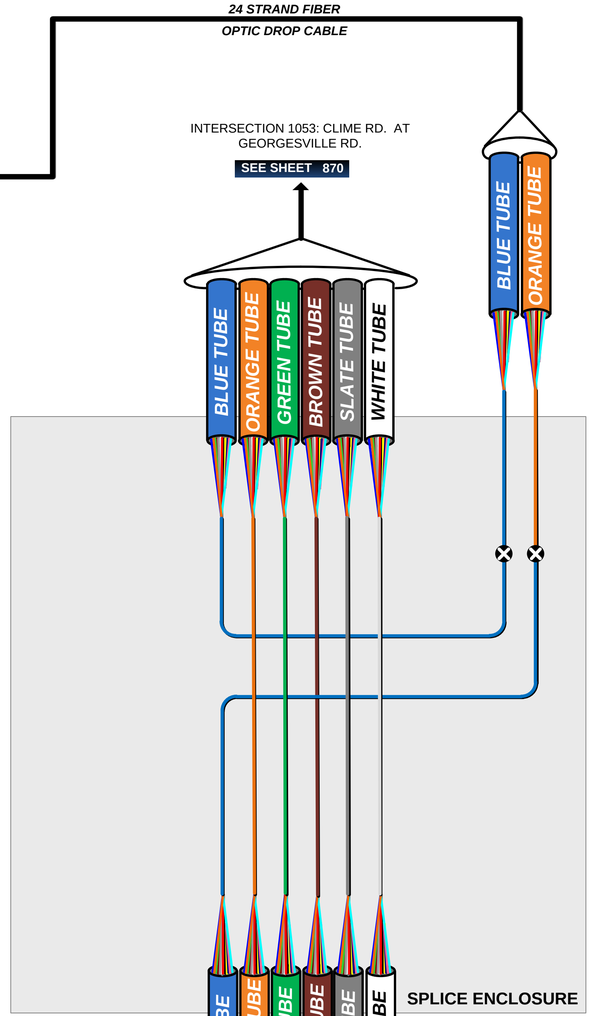
PORT 5: INTERSECTION 1052: CLIME RD. NORTH AT GEORGESVILLE RD.
SEE SHEET 869

PORT 6: PROPOSED COMMUNICATION NODE 270004.5: I-270 AT GEORGESVILLE RD
SEE SHEET 1082



PATCH PANEL ENCLOSURE – 24 TERMINATION





144-FIBER TRUNK CABLE

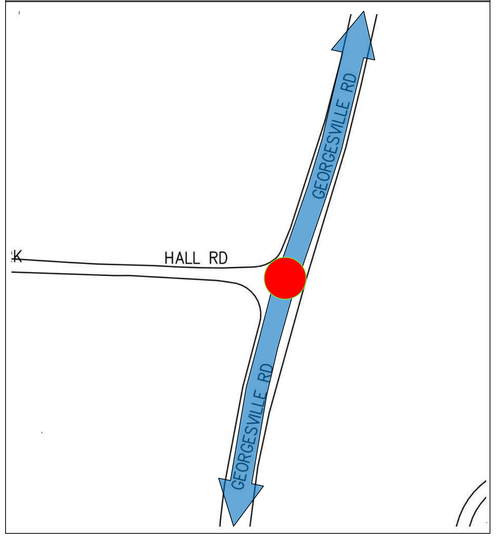
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 1101: GEORGESVILLE
RD. AT PARKWICK DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 1103

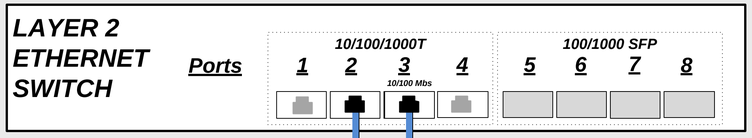
REFER TO SHEET 357 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1103: GEORGESVILLE RD. AT HALL RD.
COMMUNICATIONS DIAGRAM

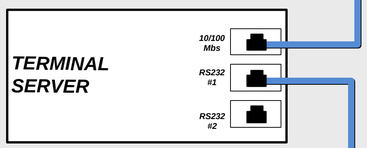
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

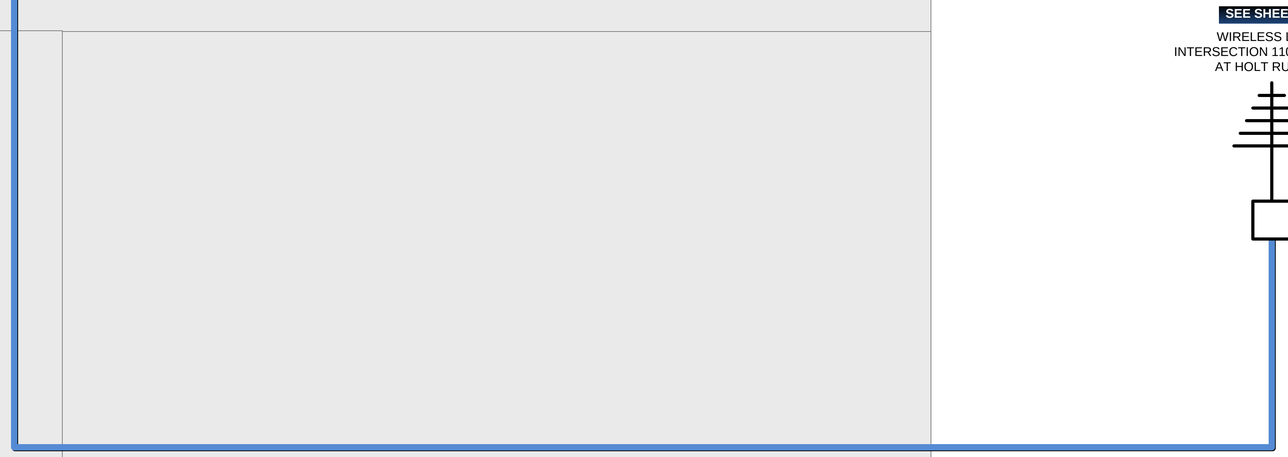


ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 1107: HOLT RD. AT HOLT RUN DR.
SEE SHEET 878







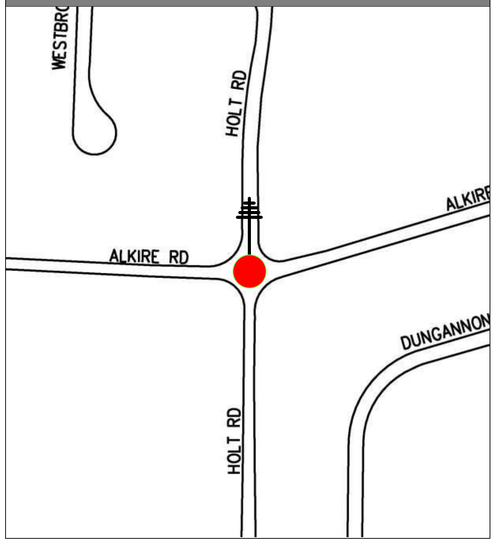
SEE SHEET 878

WIRELESS LINK TO
INTERSECTION 1107: HOLT RD.
AT HOLT RUN DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 1104

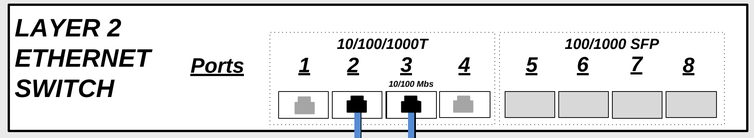
REFER TO SHEET 363 FOR CONSTRUCTION PLAN DETAILS

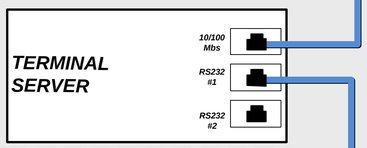
PID NUMBER 13034
2762 DR. E

INTERSECTION 1104: ALKIRE RD. AT HOLT RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

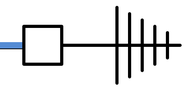






ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 1096: AUTOMALL DR. & HOLT RD. AT GEORGESVILLE RD.
SEE SHEET 871



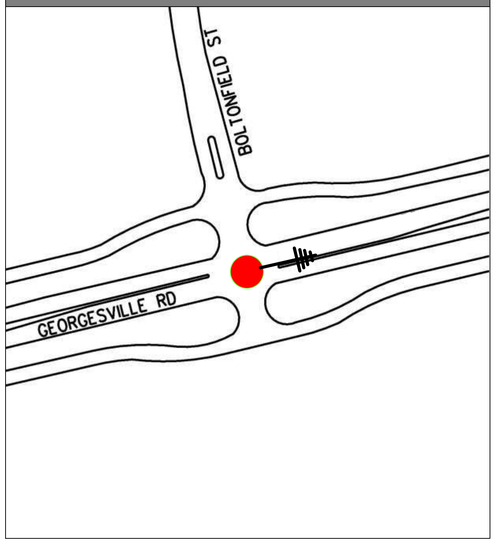
SEE SHEET 871

WIRELESS LINK TO
INTERSECTION 1096: AUTOMALL
DR. & HOLT RD. AT
GEORGESVILLE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 1105

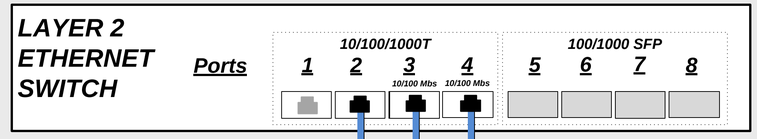
REFER TO SHEET 353 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 1105: BOLTONFIELD ST. AT GEORGESVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

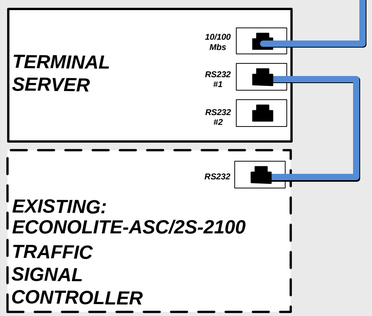
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 1096: AUTOMALL DR. & HOLT RD. AT GEORGESVILLE RD.
SEE SHEET 871

PORT 4: INTERSECTION 1104: ALKIRE RD. AT HOLT RD.
SEE SHEET 876



SEE SHEET 871

WIRELESS LINK TO
INTERSECTION 1096: AUTOMALL DR.
& HOLT RD. AT GEORGESVILLE RD.

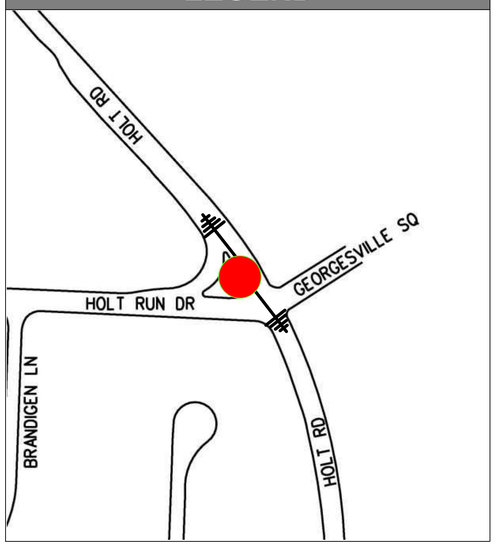
SEE SHEET 876

WIRELESS LINK TO
INTERSECTION 1104: ALKIRE RD.
AT HOLT RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 1107

REFER TO SHEET 364 FOR CONSTRUCTION PLAN DETAILS

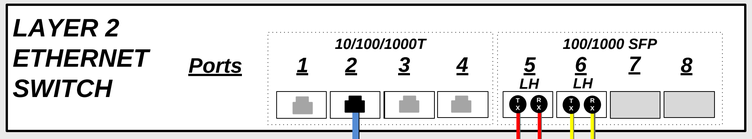
PID NUMBER 13034
2762 DR. E

INTERSECTION 1107: HOLT RD. AT HOLT RUN DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

878
1107

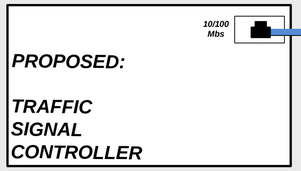
TRAFFIC SIGNAL CABINET ASSEMBLY



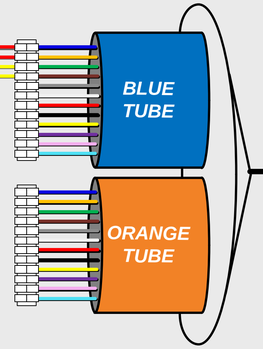
ETHERNET SWITCH PORT DESTINATION

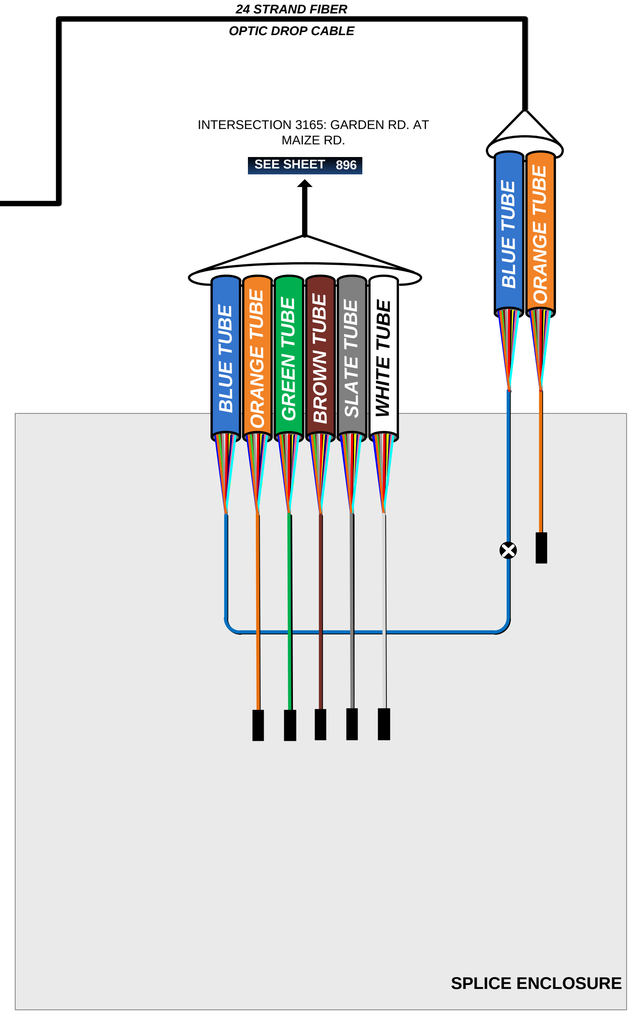
PORT 5: INTERSECTION 3165: GARDEN RD. AT MAIZE RD.
SEE SHEET 896

PORT 6: INTERSECTION N010: MAIZE RD. AT MORSE RD.
SEE SHEET 997



PATCH PANEL ENCLOSURE – 24 TERMINATION

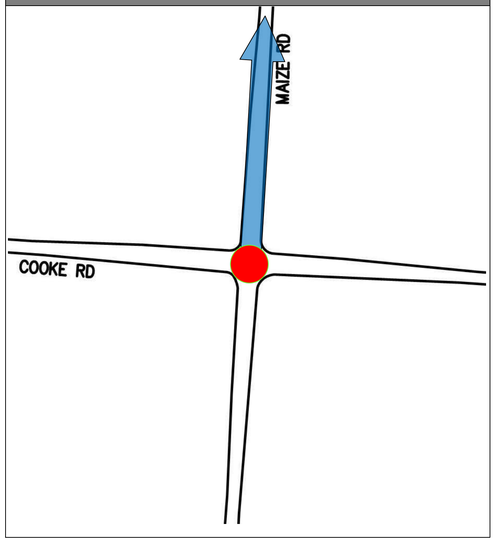




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3029
REFER TO SHEET 407 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3029: COOKE RD. AT MAIZE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0119: ELIJAH PEIRCE DR. AT LONG ST.
SEE SHEET 990A

PORT 6: INTERSECTION 0118: LESTER DR. AT LONG ST.
SEE SHEET 990

10/100Mbs

EXISTING:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SEE SHEET 990A

INTERSECTION 0119: ELIJAH PIERCE DR. AT LONG ST. (FUTURE)

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

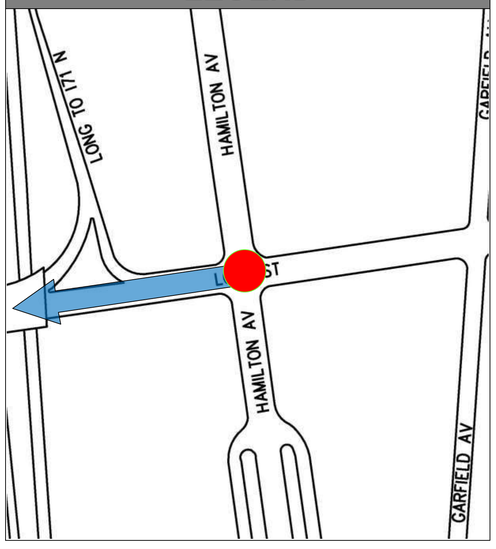
WHITE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3052

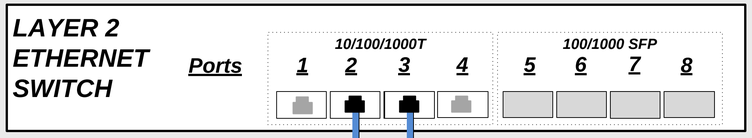
REFER TO SHEET 200 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3052: HAMILTON AVE. AT LONG ST.
COMMUNICATIONS DIAGRAM

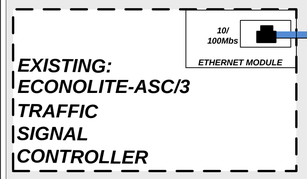
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

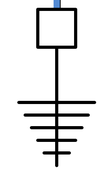
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 3072: MEDICAL CENTER DR. AT TAYLOR STATION RD.
SEE SHEET 882





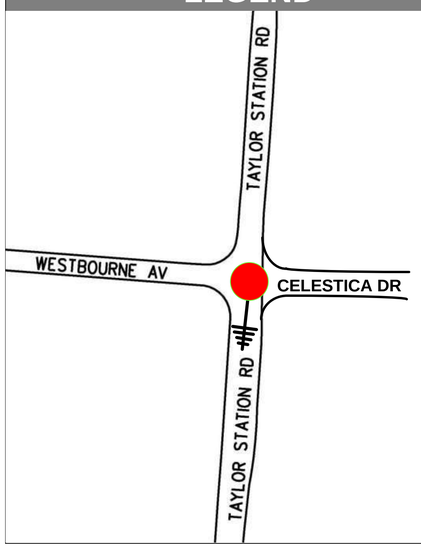
SEE SHEET 882

WIRELESS LINK TO
INTERSECTION 3072: MEDICAL CENTER
DR. AT TAYLOR STATION RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 3071

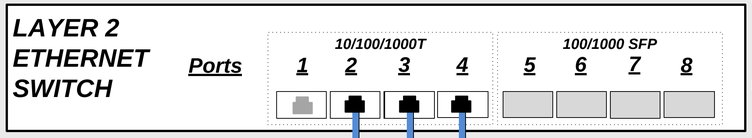
REFER TO SHEET 304 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3071: CELESTICA DR. & WESTBOURNE RD. AT TAYLOR STATION RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

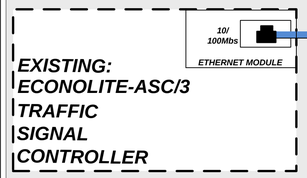
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 3071: CELESTICA DR. & WESTBOURNE RD. AT TAYLOR STATION RD.
SEE SHEET 881

PORT 4: INTERSECTION 3080: E. BROAD ST. AT TAYLOR STATION RD.
SEE SHEET 883





SEE SHEET 881

WIRELESS LINK TO
INTERSECTION 3071: CELESTICA DR.
& WESTBOURNE RD. AT TAYLOR
STATION RD.

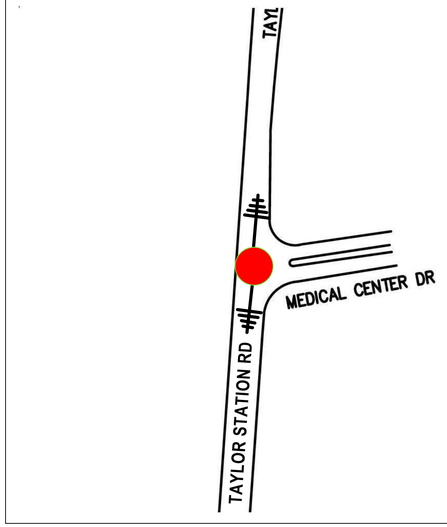
SEE SHEET 883

WIRELESS LINK TO
INTERSECTION 3080: E. BROAD ST. AT
TAYLOR STATION RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 3072

REFER TO SHEET 303 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3072: MEDICAL CENTER DR. AT TAYLOR STATION RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 3072: MEDICAL CENTER DR. AT TAYLOR STATION RD.
SEE SHEET 882

PORT 5: INTERSECTION 3167: E. BROAD ST. AT CELESTICA DR.
SEE SHEET 897

PORT 6: EXISTING COMMUNICATION NODE 270039.5: I-270 AT E. BROAD ST.
SEE SHEET 1100

SEE SHEET 882
WIRELESS LINK TO
INTERSECTION 3072: MEDICAL CENTER DR. AT TAYLOR STATION RD.

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1100
EXISTING COMMUNICATION NODE 270039.5: I-270 AT E. BROAD ST.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

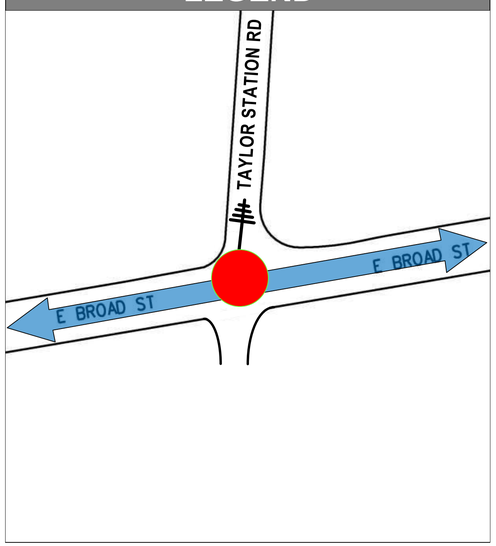
SEE SHEET 884
INTERSECTION 3081: E. BROAD ST. AT MCNAUGHTEN RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3080
REFER TO SHEET 305 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3080: E. BROAD ST. AT TAYLOR STATION RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3267: BRICE RD. AT E. BROAD ST.
SEE SHEET 907

PORT 6: EXISTING COMMUNICATION NODE 270039.5: I-270 AT E. BROAD ST.
SEE SHEET 1100

PORT 7: INTERSECTION SIG4790: SISTER NANCY GANSE LN. AT STORNAWAY DR.
SEE SHEET 1060

TERMINAL SERVER
- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER
- RS232

CCTV FIELD BOX
- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

COMPOSITE CCTV CABLE → **PROPOSED CCTV**

24 STRAND FIBER OPTIC DROP CABLE → MATCHLINE 'A' - SEE SHEET 884A TO SPLICE ENCLOSURE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

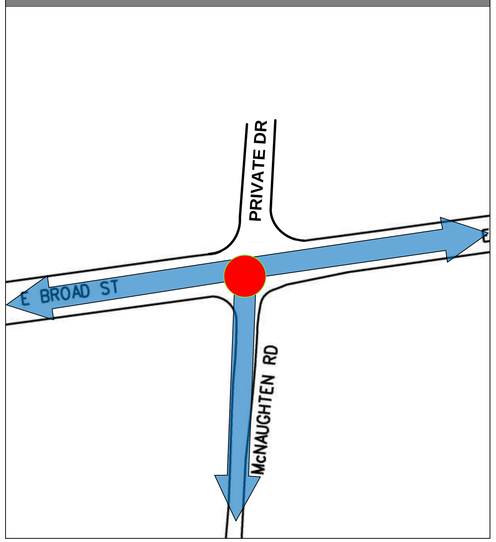
ORANGE TUBE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



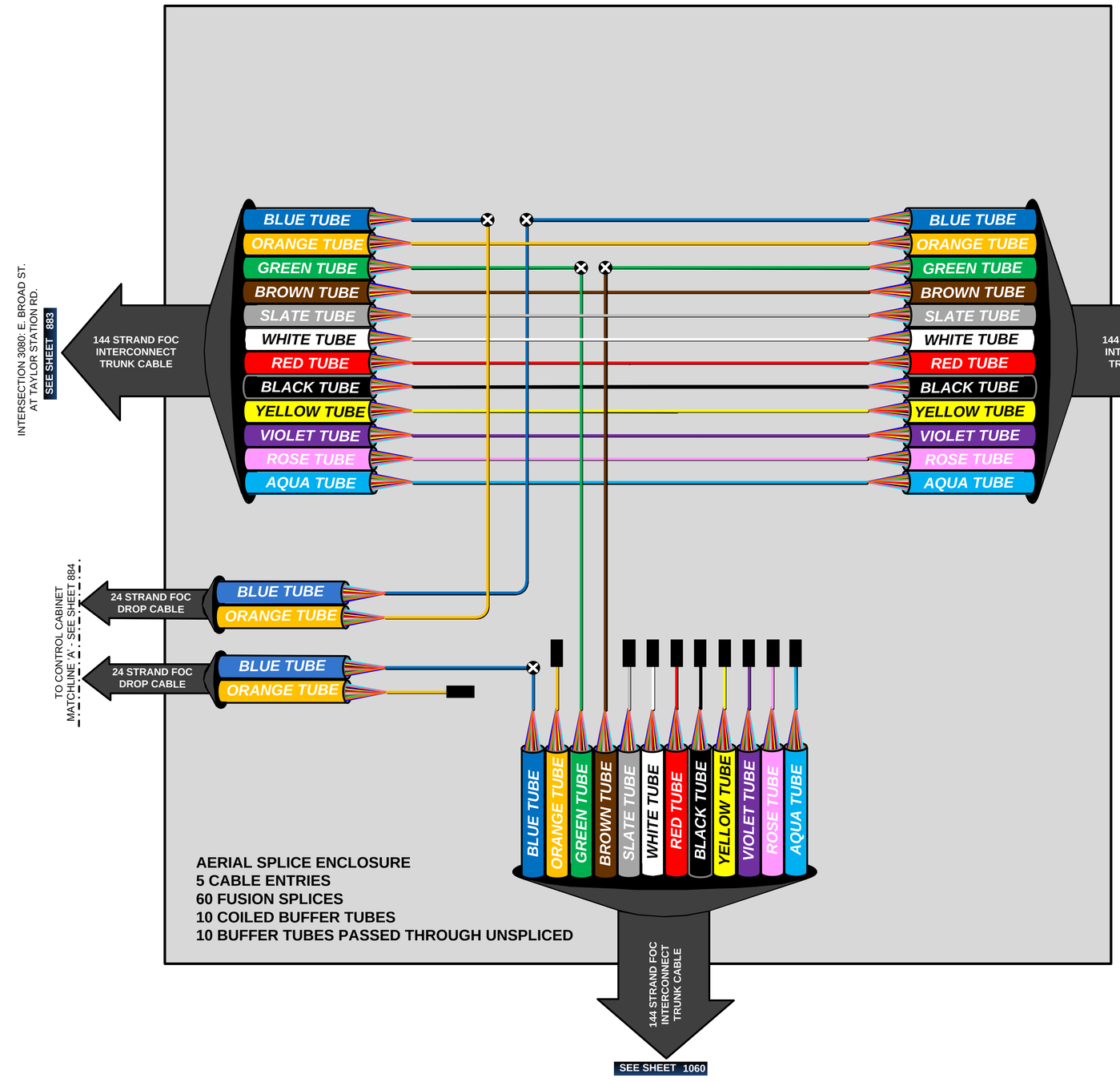
INTERSECTION 3081

REFER TO SHEET 306 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3081: E. BROAD ST. AT MCNAUGHTEN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

INTERSECTION 3081: E. BROAD ST. AT MCNAUGHTEN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

884A
1107

INTERSECTION 3081

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

10/100Mbs

EXISTING:

ECONOLITE ASC/3-2100 TRAFFIC SIGNAL CONTROLLER

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3084: E. BROAD ST. AT EASTPOINT CENTER
SEE SHEET 887

PORT 6: INTERSECTION 3167: E. BROAD ST. AT CELESTICA DR.
SEE SHEET 897

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

SEE SHEET 907

INTERSECTION 3267: BRICE RD. AT E. BROAD ST.

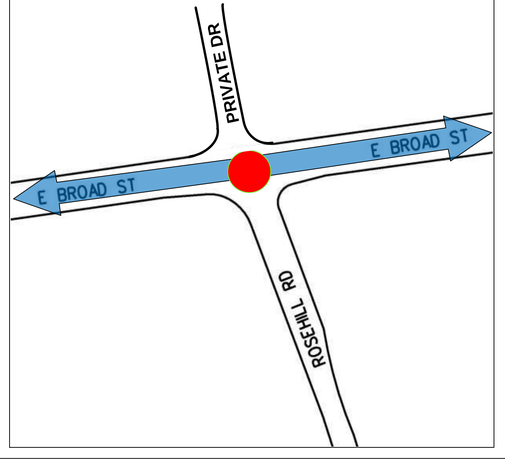
SEE SHEET 888

INTERSECTION 3085: E. BROAD ST AT GIANT EAGLE CENTER

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3082

REFER TO SHEET 307 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3082: E. BROAD ST. AT ROSEHILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7 LH, 8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4845: BLACKLICK RIDGE RD. AT REYNOLDSBURG-NEW ALBANY RD.
SEE SHEET 1065

PORT 6: INTERSECTION SIG4875: REYNOLDSBURG-NEW ALBANY RD. AT TAYLOR RD.
SEE SHEET 1067

PORT 7: INTERSECTION 3264: E. BROAD ST. AT WAGGONER RD.
SEE SHEET 905

PORT 8: INTERSECTION 3085: E. BROAD ST AT GIANT EAGLE CENTER
SEE SHEET 888

PROPOSED CCTV

COMPOSITE CCTV CABLE

CCTV FIELD BOX
- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 MBS
- ANALOG VIDEO

TERMINAL SERVER
- 10/100 Mbs
- RS232 #1
- RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE
24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION SIG4845: BLACKLICK RIDGE RD. AT REYNOLDSBURG-NEW ALBANY RD.
SEE SHEET 1065

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE : (2) – 24 TERMINATION

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 887
INTERSECTION 3084: E. BROAD ST. AT EASTPOINT CENTER

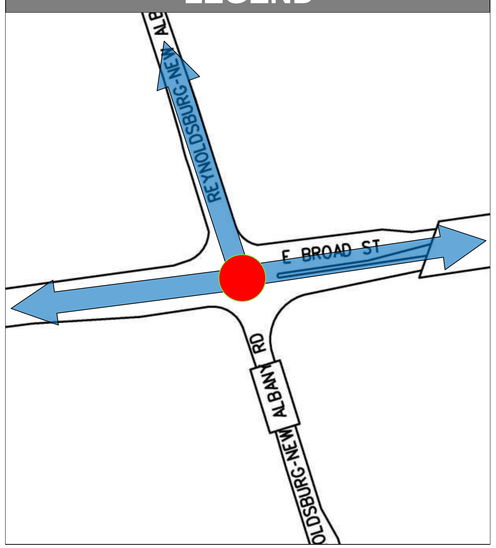
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 908
INTERSECTION 3274: BANNOCKBURN BLVD. AT E. BROAD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3083

REFER TO SHEET 309 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3083: E. BROAD ST. AT REYNOLDSBURG NEW ALBANY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

886
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 (LH) 6 (LH) 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3274: BANNOCKBURN BLVD. AT E. BROAD ST.
SEE SHEET 908

PORT 6: INTERSECTION 3082: E. BROAD ST. AT ROSEHILL RD.
SEE SHEET 885

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

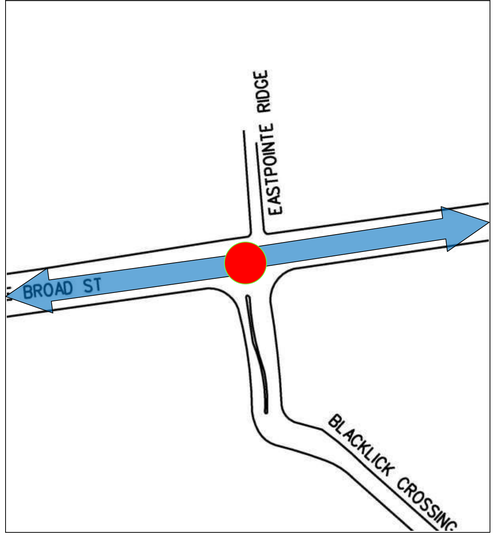
SEE SHEET 888
INTERSECTION 3085: E. BROAD ST AT GIANT EAGLE CENTER

SEE SHEET 886
INTERSECTION 3083: E. BROAD ST. AT REYNOLDSBURG NEW ALBANY RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3084

REFER TO SHEET 310 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3084: E. BROAD ST. AT EASTPOINT CENTER
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH — **Ports**

10/100/1000T: 1 2 3 4 — 100/1000 SFP: 5 6 7 8 (5 LH, 6 LH)

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3083: E. BROAD ST. AT REYNOLDSBURG NEW ALBANY RD.
SEE SHEET 886

PORT 6: INTERSECTION 3267: BRICE RD. AT E. BROAD ST.
SEE SHEET 907

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

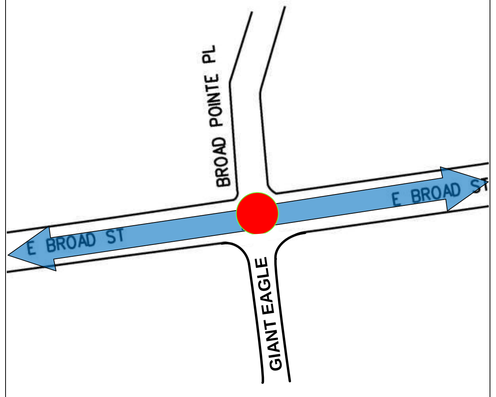
SEE SHEET 885
INTERSECTION 3082: E. BROAD ST. AT ROSEHILL RD.

SEE SHEET 887
INTERSECTION 3084: E. BROAD ST. AT EASTPOINT CENTER

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3085

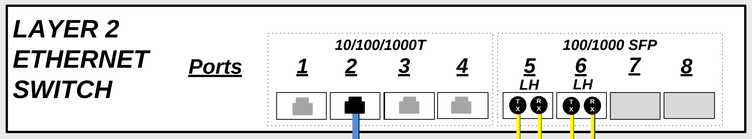
REFER TO SHEET 311 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3085: E. BROAD ST AT GIANT EAGLE CENTER
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

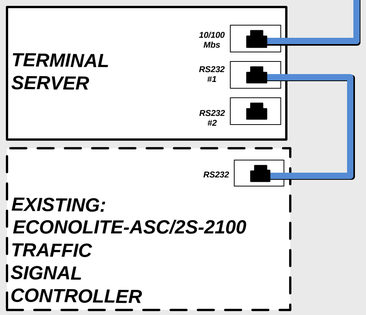
TRAFFIC SIGNAL CABINET ASSEMBLY



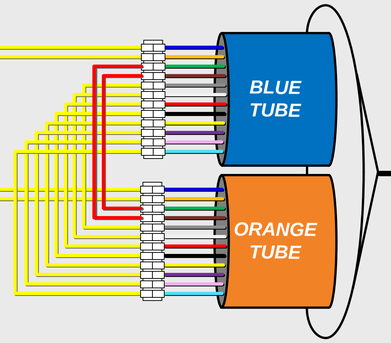
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3164: CHERRY BOTTOM RD. AT MORSE RD.
SEE SHEET 895

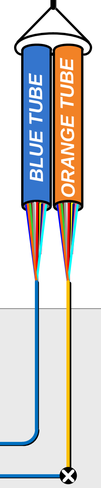
PORT 6: INTERSECTION 3162: I-270 NB RAMPS AT MORSE RD.
SEE SHEET 893

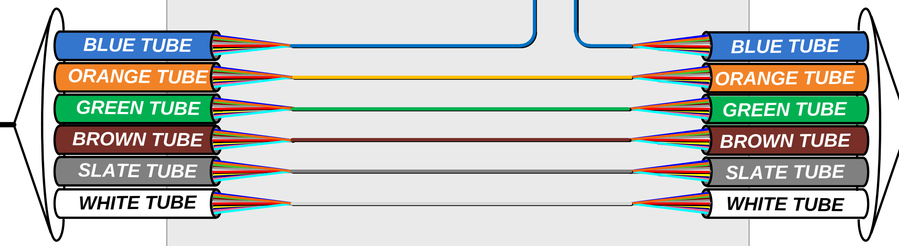


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE





SEE SHEET 894
INTERSECTION 3163:
APPIAN WAY & LIMITED
PKWY AT MORSE RD.

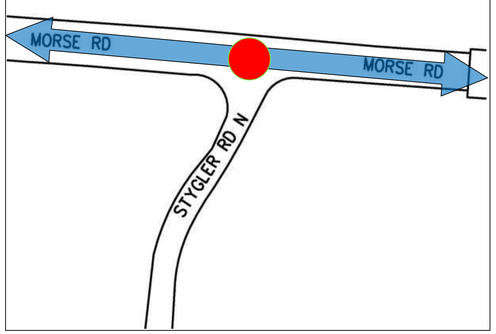
SEE SHEET 895
INTERSECTION 3164:
CHERRY BOTTOM RD. AT
MORSE RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3092
REFER TO SHEET 409 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3092: MORSE RD. AT STYGLER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4060: CLEVELAND AVE. AT HUY RD.
SEE SHEET 1052

PORT 6: INTERSECTION SIG4065: CLEVELAND AVE. AT INNIS RD.
SEE SHEET 1053

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

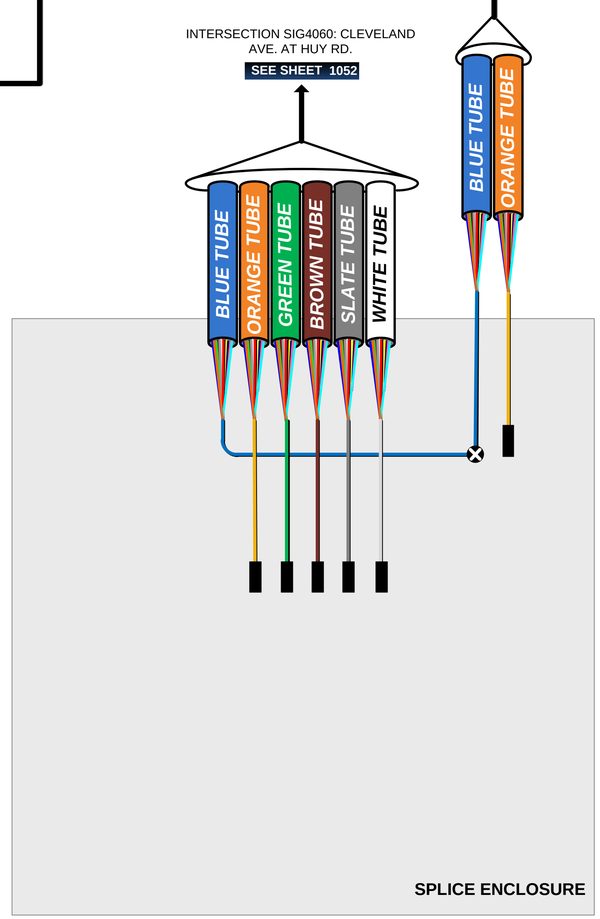
- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

- BLUE TUBE
- ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION SIG4060: CLEVELAND AVE. AT HUY RD.
SEE SHEET 1052

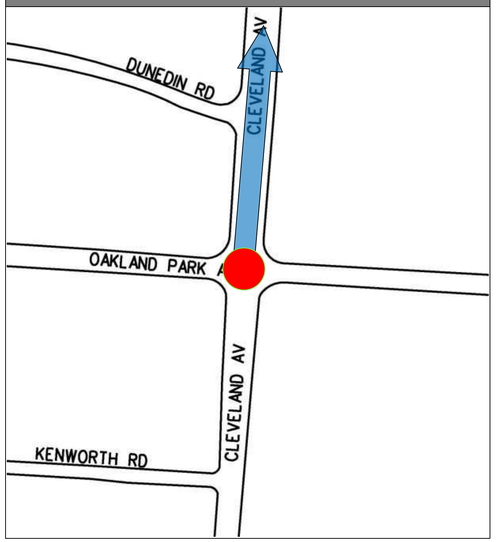


SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3154

REFER TO SHEET 288 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3154: CLEVELAND AVE. AT OAKLAND PARK AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.
SEE SHEET 1027

PORT 6: INTERSECTION SIG4055: CLEVELAND AVE. AT COOKE RD. AND PEGG RD.
SEE SHEET 1051

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N062: CLEVELAND AVE. AT HUNTINGTON BANK DR.
SEE SHEET 1049

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

SPLICE ENCLOSURE

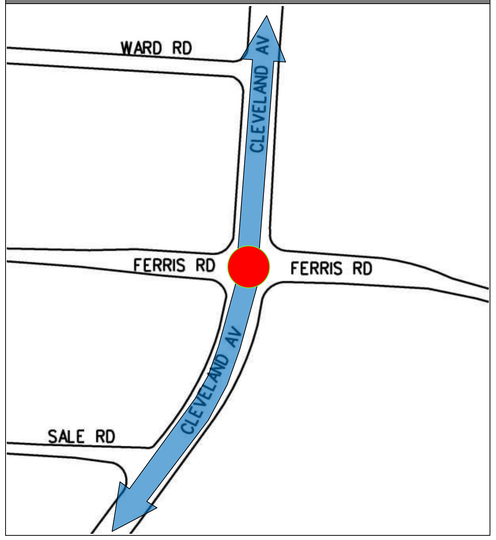
SEE SHEET 1058

INTERSECTION SIG4360: CLEVELAND AVE. AT CTFD

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3159

REFER TO SHEET 289 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3159: CLEVELAND AVE. AT FERRIS RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH — **Ports**

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 270032.3: I-270 AT MORSE RD.
SEE SHEET 1096

PORT 6: INTERSECTION 3231: EASTON LOOP & EASTON SQUARE AT MORSE RD.
SEE SHEET 902

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

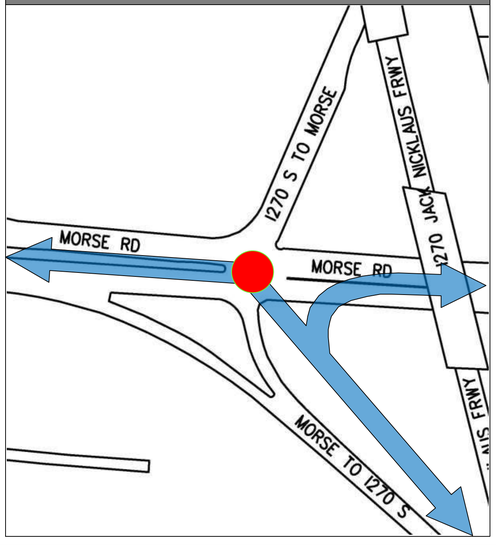
SEE SHEET 900
INTERSECTION 3228: MORSE RD. AT STELZER RD.

SEE SHEET 1097
EXISTING COMMUNICATION NODE 270032.3: I-270 AT MORSE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3161

REFER TO SHEET 410 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3161: I-270 SB RAMPS AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3092: MORSE RD. AT STYGLER RD.
SEE SHEET 889

PORT 6: EXISTING COMMUNICATION NODE 270032.3-2: I-270 AT MORSE RD.
SEE SHEET 1097

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

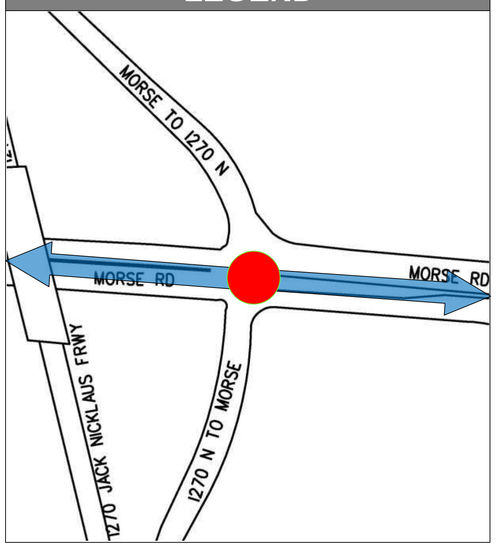
SEE SHEET 1097
EXISTING COMMUNICATION NODE 270032.3-2: I-270 AT MORSE RD.

SEE SHEET 894
INTERSECTION 3163: APPIAN WAY & LIMITED PKWY AT MORSE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3162

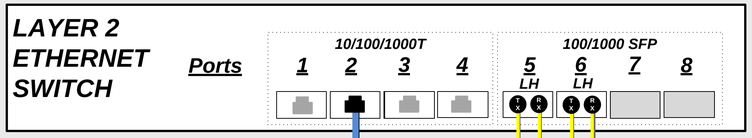
REFER TO SHEET 411 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3162: I-270 NB RAMPS AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

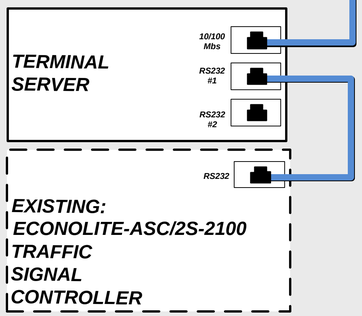
TRAFFIC SIGNAL CABINET ASSEMBLY



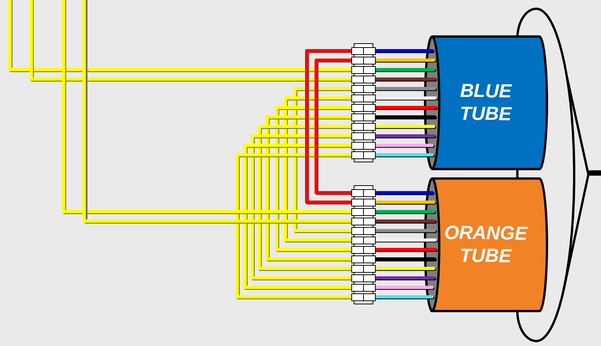
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3164: CHERRY BOTTOM RD. AT MORSE RD.
SEE SHEET 895

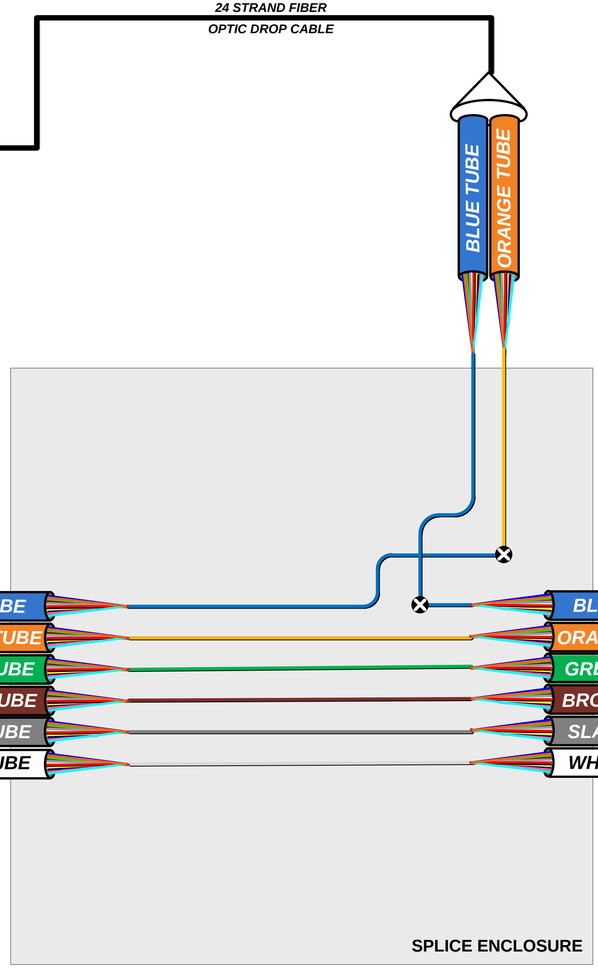
PORT 6: EXISTING COMMUNICATION NODE 270032.3: I-270 AT MORSE RD.
SEE SHEET 1096



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE



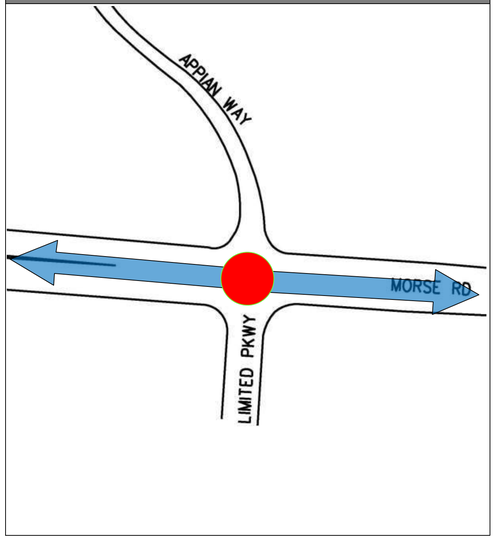
SEE SHEET 893
INTERSECTION 3162: I-270
NB RAMPS AT MORSE RD.

SEE SHEET 889
INTERSECTION 3092:
MORSE RD. AT
STYGLER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3163

REFER TO SHEET 412 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3163: APPIAN WAY & LIMITED PKWY AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3092: MORSE RD. AT STYGLER RD.
SEE SHEET 889

PORT 6: INTERSECTION 3163: APPIAN WAY & LIMITED PKWY AT MORSE RD.
SEE SHEET 894

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING:
ECONOLITE-ASC/2S-2100
TRAFFIC
SIGNAL
CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER
OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 889

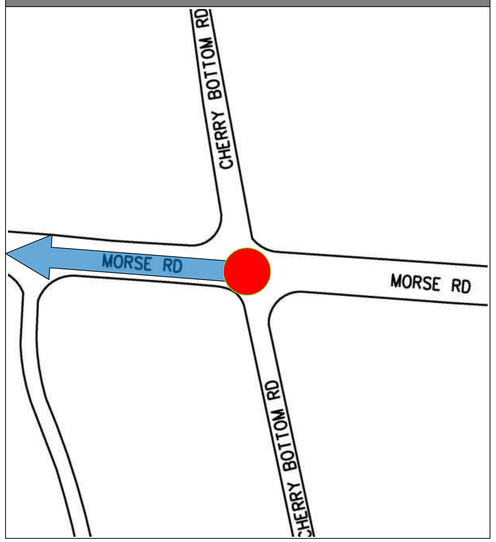
INTERSECTION 3092: MORSE
RD. AT STYGLER RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3164

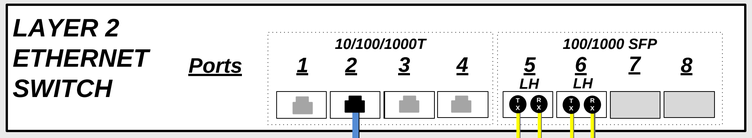
REFER TO SHEET 412 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3164: CHERRY BOTTOM RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

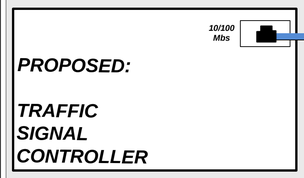
TRAFFIC SIGNAL CABINET ASSEMBLY



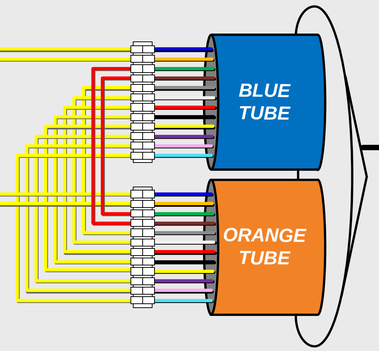
ETHERNET SWITCH PORT DESTINATION

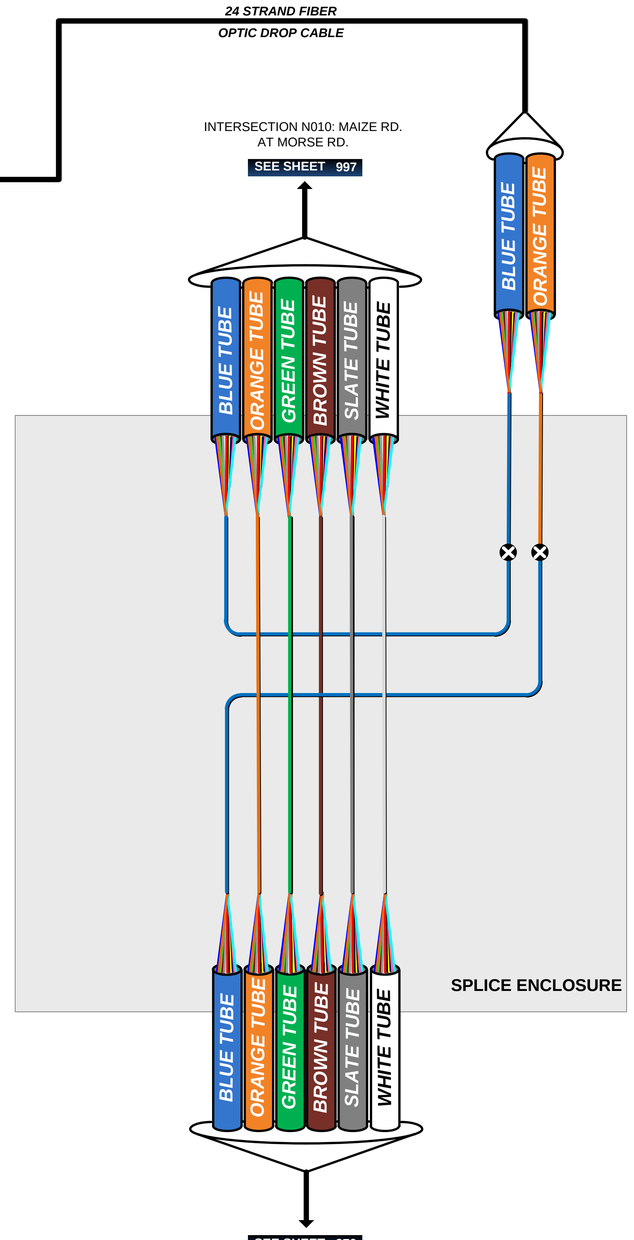
PORT 5: INTERSECTION N010: MAIZE RD. AT MORSE RD.
SEE SHEET 997

PORT 6: INTERSECTION 3029: COOKE RD. AT MAIZE RD.
SEE SHEET 879



PATCH PANEL ENCLOSURE – 24 TERMINATION





144-FIBER TRUNK CABLE

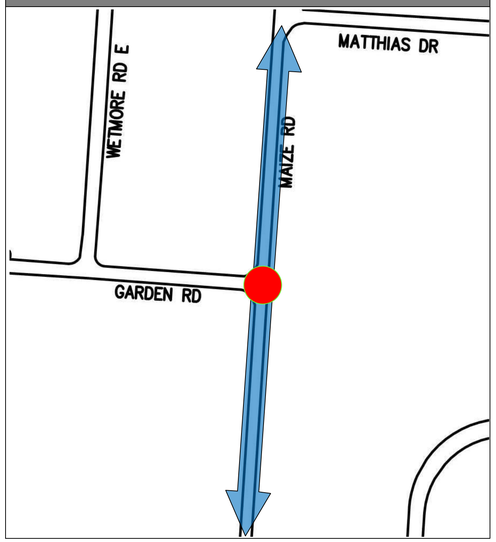
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3029: COOKE RD. AT MAIZE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 3165

REFER TO SHEET 406 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3165: GARDEN RD. AT MAIZE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3082: E. BROAD ST. AT ROSEHILL RD.
SEE SHEET 886

PORT 6: INTERSECTION 3080: E. BROAD ST. AT TAYLOR STATION RD.
SEE SHEET 883

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING:
ECONOLITE-ASC/2S-2100
TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

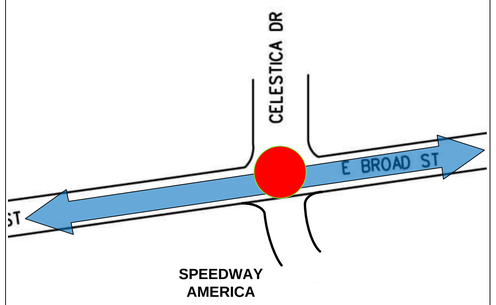
SEE SHEET 884
INTERSECTION 3081: E. BROAD ST. AT MCNAUGHTEN RD.

SEE SHEET 907
INTERSECTION 3267: BRICE RD. AT E. BROAD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3167

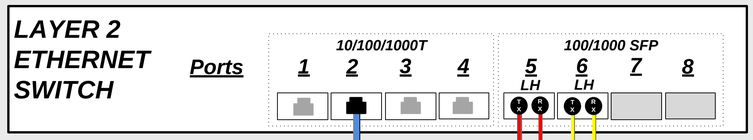
REFER TO SHEET 312 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3167: E. BROAD ST. AT CELESTICA DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

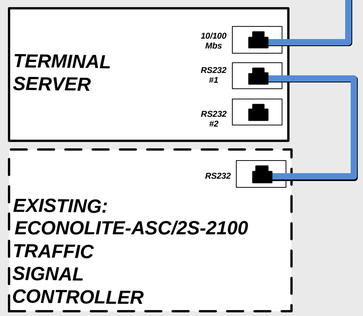
TRAFFIC SIGNAL CABINET ASSEMBLY



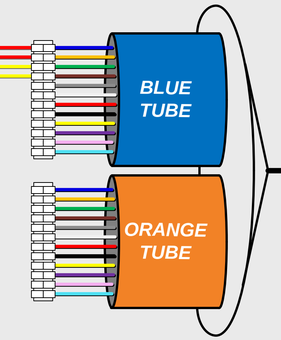
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0107: HIGH ST. AT VINE ST.
SEE SHEET 861

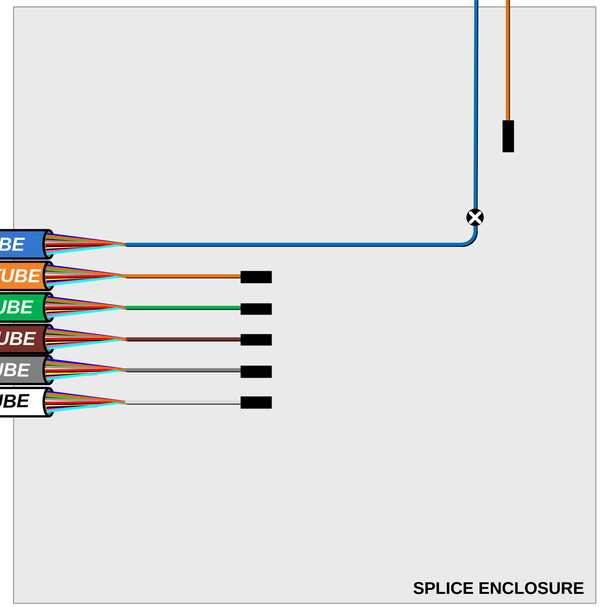
PORT 6: INTERSECTION 0005: HIGH ST. AT NATIONWIDE BLVD.
SEE SHEET 765



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

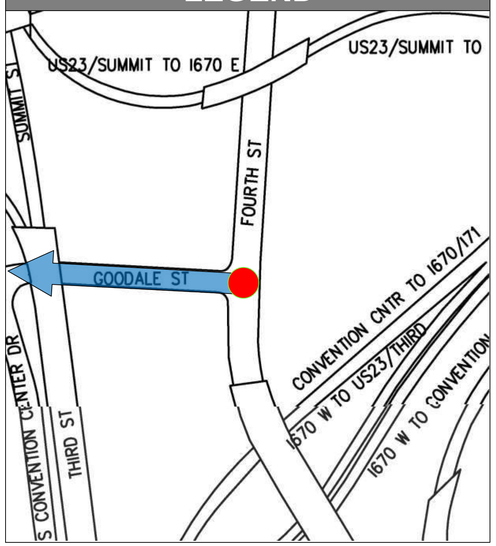


SEE SHEET 861
INTERSECTION 0107: HIGH ST.
AT VINE ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3168
REFER TO SHEET 191 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3168: FOURTH ST. AT GOODALE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3237: MORSE CROSSING. AT MORSE RD.
SEE SHEET 903

PORT 6: INTERSECTION 3231: EASTON LOOP & EASTON SQUARE AT MORSE RD.
SEE SHEET 902

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- ANALOG VIDEO
- 10/100 Mbs

COMPOSITE CCTV CABLE

PROPOSED CCTV

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 911
INTERSECTION 3291: MORSE RD. AT WESTERVILLE RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

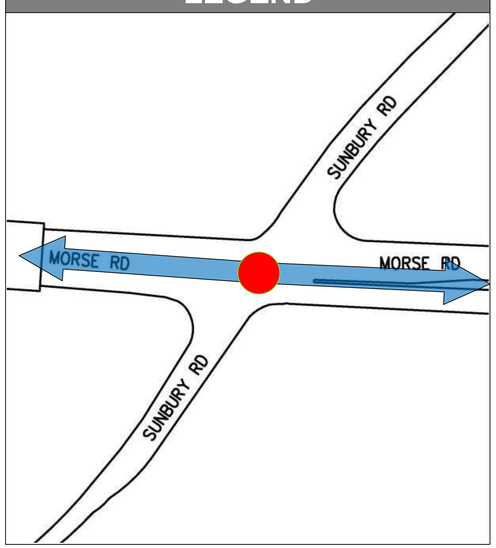
SEE SHEET 903
INTERSECTION 3237: MORSE CROSSING. AT MORSE RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3209

REFER TO SHEET 415 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3209: MORSE RD. AT SUNBURY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 270032.3: I-270 AT MORSE RD.
SEE SHEET 1096

PORT 6: INTERSECTION 3237: MORSE CROSSING. AT MORSE RD.
SEE SHEET 903

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

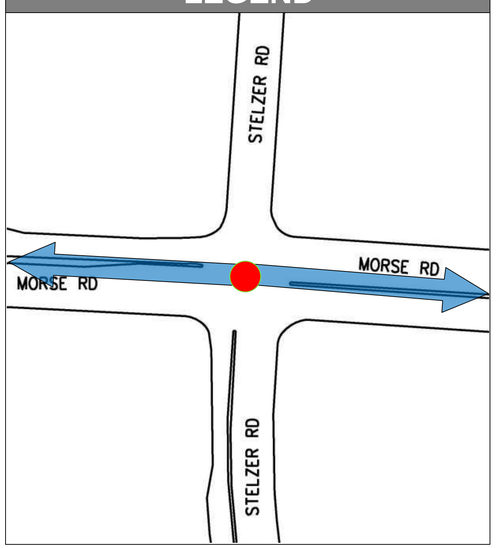
SEE SHEET 902
INTERSECTION 3231: EASTON LOOP & EASTON SQUARE AT MORSE RD.

SEE SHEET 892
INTERSECTION 3161: I-270 SB RAMPS AT MORSE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3228

REFER TO SHEET 416 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3228: MORSE RD. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3291: MORSE RD. AT WESTERVILLE RD.
SEE SHEET 911

PATCH PANEL ENCLOSURE – 24 TERMINATION

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 3237: MORSE CROSSING. AT MORSE RD.

SEE SHEET 903

C.F.N. WHITE BUFFER TUBE

BLUE TUBE

ORANGE TUBE

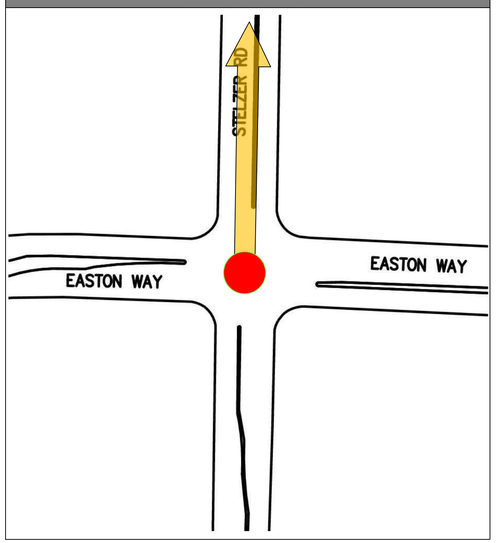
C.F.N. WHITE BUFFER TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 3229

REFER TO SHEET 422 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3229: EASTON WAY AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3161: I-270 SB RAMPS AT MORSE RD.
SEE SHEET 892

PORT 6: INTERSECTION 3209: MORSE RD. AT SUNBURY RD.
SEE SHEET 899

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

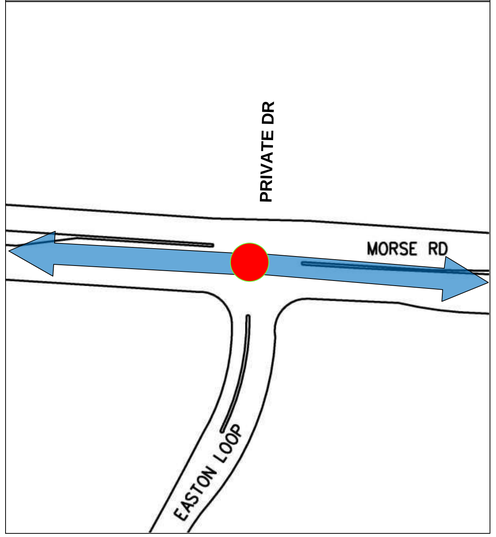
SEE SHEET 903
INTERSECTION 3237: MORSE CROSSING. AT MORSE RD.

SEE SHEET 900
INTERSECTION 3228: MORSE RD. AT STELZER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3231

REFER TO SHEET 417 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3231: EASTON LOOP & EASTON SQUARE AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3228: MORSE RD. AT STELZER RD.
SEE SHEET 900

PORT 6: INTERSECTION 3209: MORSE RD. AT SUNBURY RD.
SEE SHEET 899

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 899
INTERSECTION 3209: MORSE RD. AT SUNBURY RD.

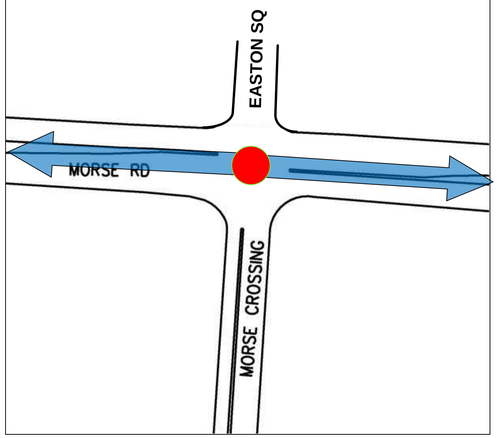
SEE SHEET 902
INTERSECTION 3231: EASTON LOOP & EASTON SQUARE AT MORSE RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3237

REFER TO SHEET 419 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3237: MORSE CROSSING. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3265: E. BROAD ST. AT THE LIMITED & TS CENTER
SEE SHEET 906

PORT 6: INTERSECTION 3274: BANNOCKBURN BLVD. AT E. BROAD ST.
SEE SHEET 908

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2
- RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

SPLICE ENCLOSURE

BLUE TUBE

ORANGE TUBE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

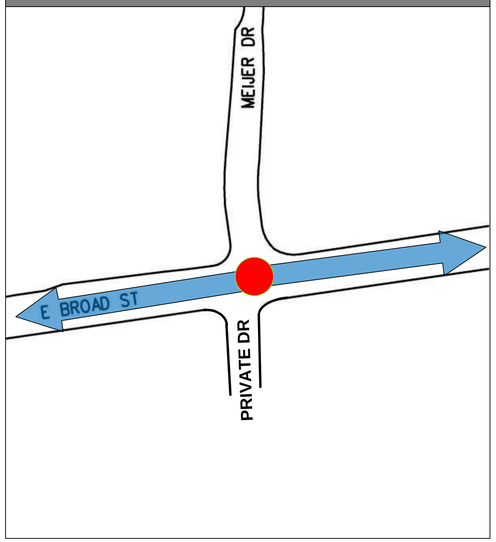
SEE SHEET 905
INTERSECTION 3264: E. BROAD ST. AT WAGGONER RD.

SEE SHEET 909
INTERSECTION 3279: E. BROAD ST. AT CEDAR CLIFF

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3263

REFER TO SHEET 313 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3263: E. BROAD ST. AT MEIJER DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SEE SHEET 1078

WIRELESS LINK TO REPEATER R-02: WAGGONER RD. AT WAGGONER RD. SCHOOL

ETHERNET SWITCH PORT DESTINATION (continued)

PORT 1: REPEATER R-02: WAGGONER RD. AT WAGGONER RD. SCHOOL
SEE SHEET 1078

PORT 5: INTERSECTION 3279: E. BROAD ST. AT CEDAR CLIFF
SEE SHEET 909

PORT 6: INTERSECTION 3083: E. BROAD ST. AT REYNOLDSBURG NEW ALBANY RD.
SEE SHEET 886

PATCH PANEL ENCLOSURE – 24 TERMINATION

SPLICE ENCLOSURE

SEE SHEET 908
INTERSECTION 3274: BANNOCKBURN BLVD. AT E. BROAD ST.

SEE SHEET 904
INTERSECTION 3263: E. BROAD ST. AT MEIJER DR.

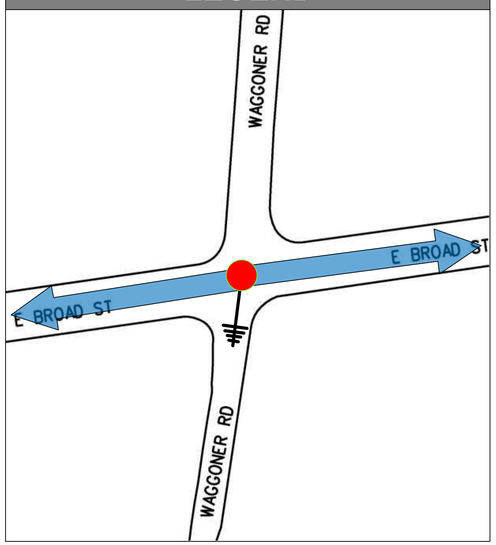
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



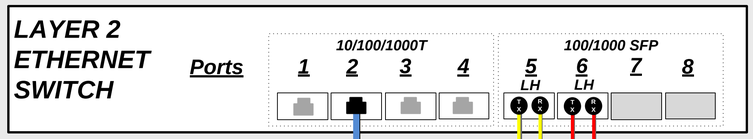
INTERSECTION 3264
REFER TO SHEET 315 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3264: E. BROAD ST. AT WAGGONER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

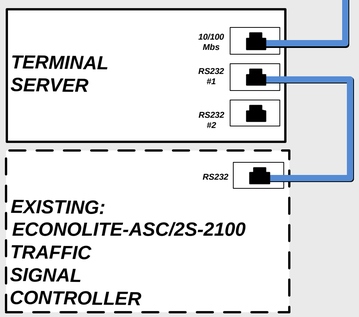
TRAFFIC SIGNAL CABINET ASSEMBLY



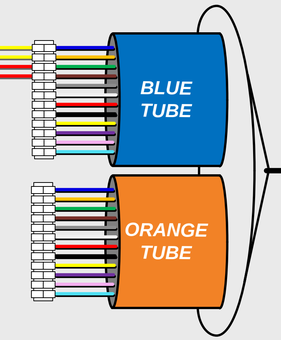
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3263: E. BROAD ST. AT MEIJER DR.
SEE SHEET 904

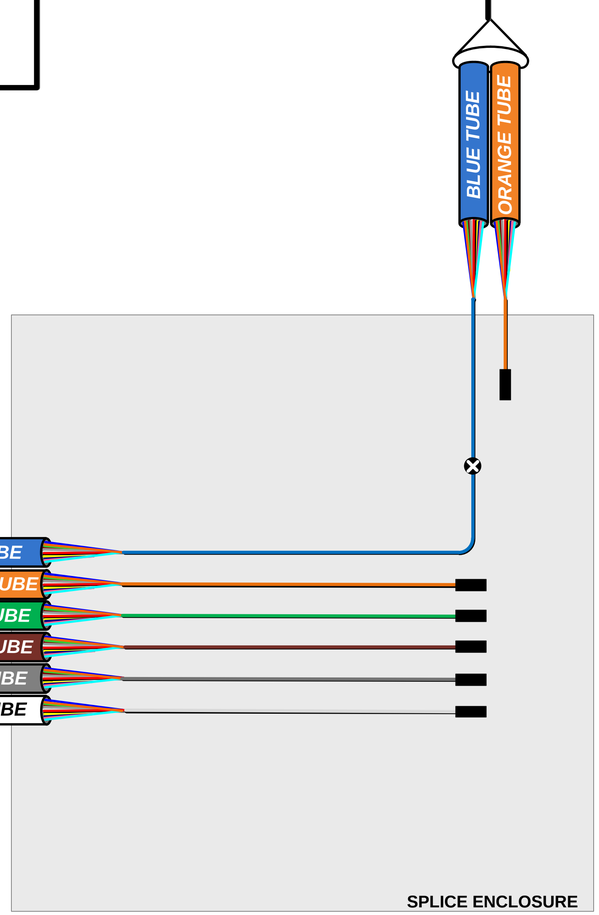
PORT 6: INTERSECTION 3279: E. BROAD ST. AT CEDAR CLIFF
SEE SHEET 909



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

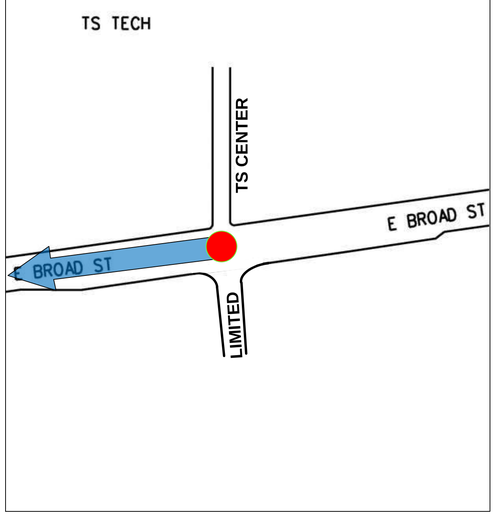


SEE SHEET 909
INTERSECTION 3279: E. BROAD ST. AT CEDAR CLIFF

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

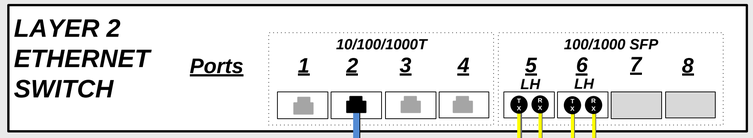
INTERSECTION 3265
REFER TO SHEET 316 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3265: E. BROAD ST. AT THE LIMITED & TS CENTER
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

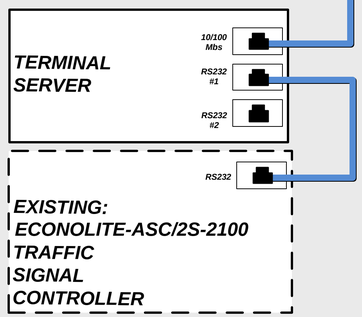
TRAFFIC SIGNAL CABINET ASSEMBLY



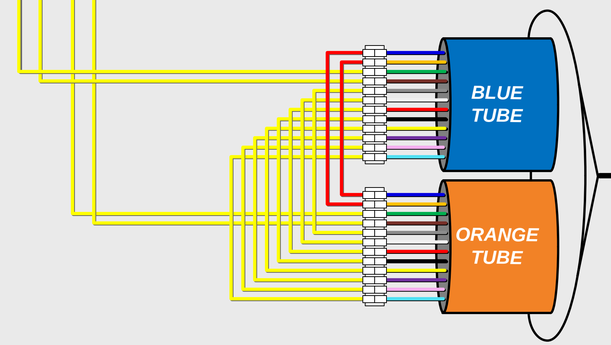
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3085: E. BROAD ST AT GIANT EAGLE CENTER
SEE SHEET 888

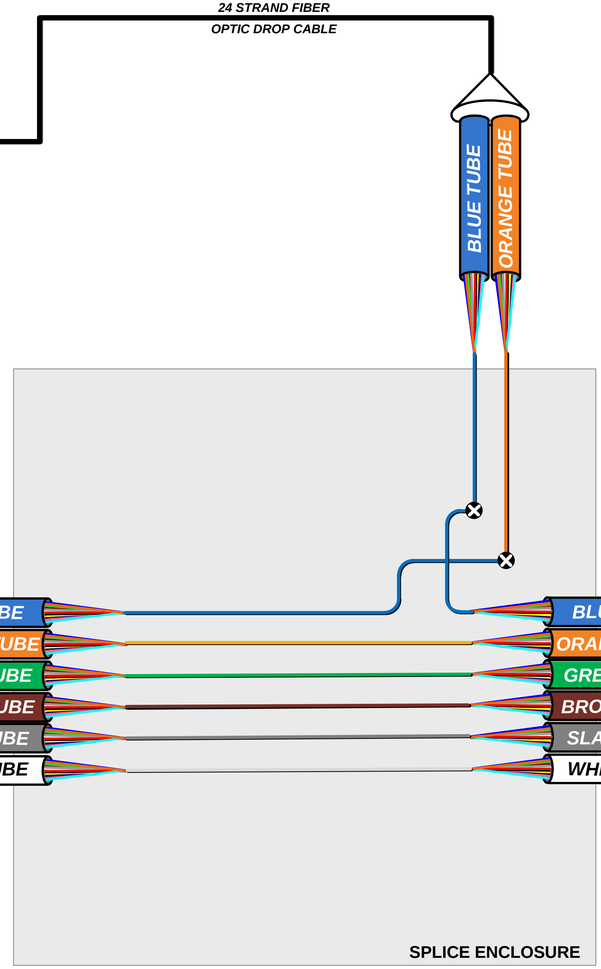
PORT 6: INTERSECTION 3081: E. BROAD ST. AT MCNAUGHTEN RD.
SEE SHEET 884



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE



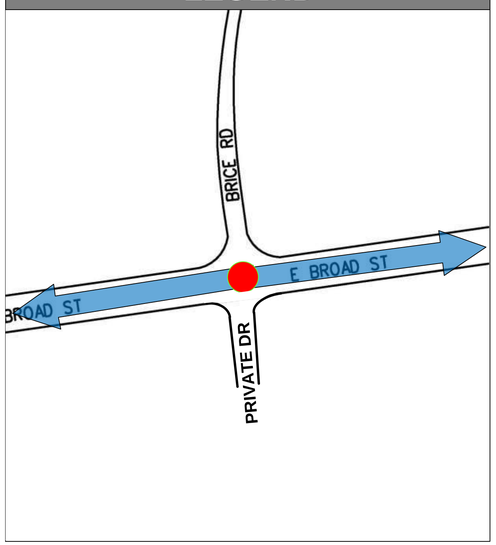
SEE SHEET 897
INTERSECTION 3167: E. BROAD ST. AT CELESTICA DR.

SEE SHEET 885
INTERSECTION 3082: E. BROAD ST. AT ROSEHILL RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3267

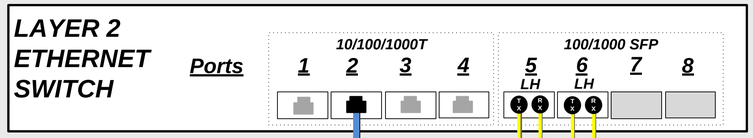
REFER TO SHEET 317 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3267: BRICE RD. AT E. BROAD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

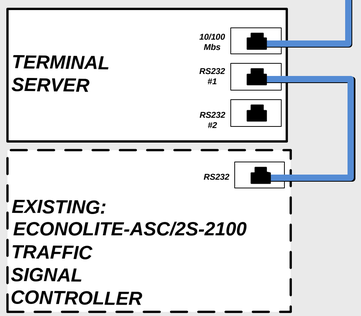
TRAFFIC SIGNAL CABINET ASSEMBLY



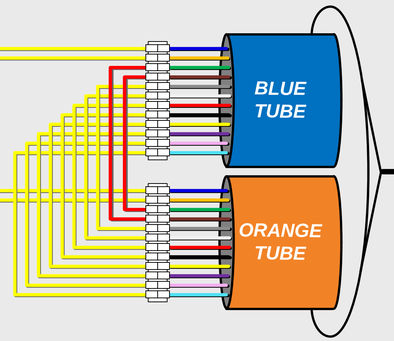
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3263: E. BROAD ST. AT MEIJER DR.
SEE SHEET 904

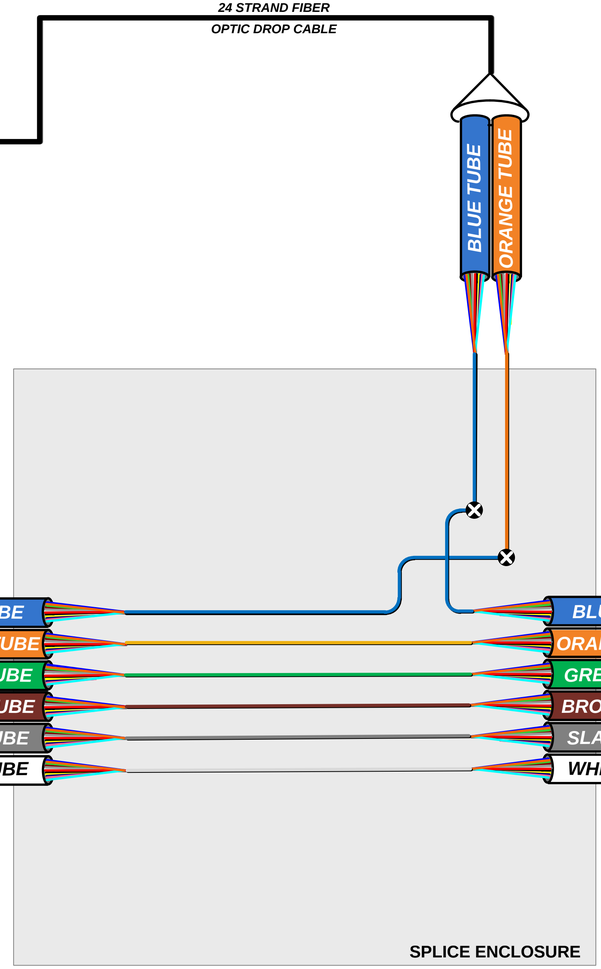
PORT 6: INTERSECTION 3084: E. BROAD ST. AT EASTPOINT CENTER
SEE SHEET 887



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE



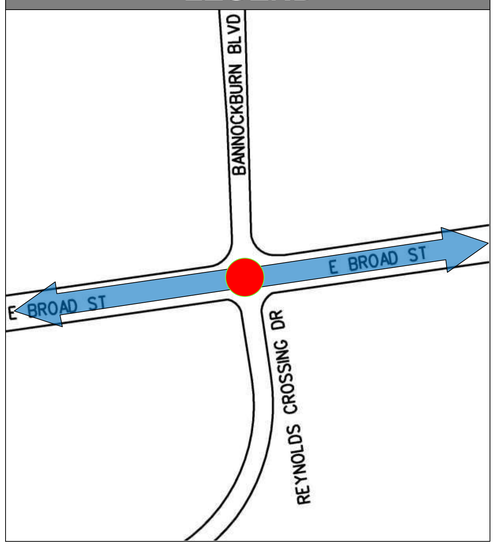
SEE SHEET 886
INTERSECTION 3083: E. BROAD ST. AT REYNOLDSBURG NEW ALBANY RD.

SEE SHEET 905
INTERSECTION 3264: E. BROAD ST. AT WAGGONER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3274

REFER TO SHEET 318 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3274: BANNOCKBURN BLVD. AT E. BROAD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3265: E. BROAD ST. AT THE LIMITED & TS CENTER
SEE SHEET 906

PORT 6: INTERSECTION 3264: E. BROAD ST. AT WAGGONER RD.
SEE SHEET 905

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

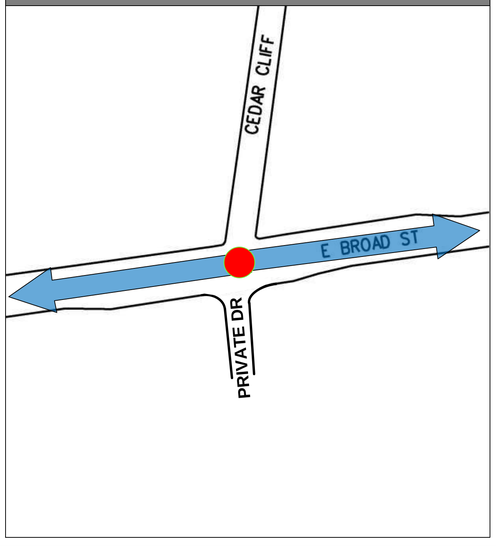
SEE SHEET 904
INTERSECTION 3263: E. BROAD ST. AT MEIJER DR.

SEE SHEET 906
INTERSECTION 3265: E. BROAD ST. AT THE LIMITED & TS CENTER

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3279

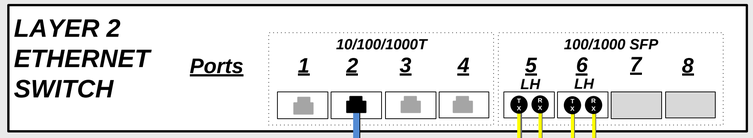
REFER TO SHEET 319 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3279: E. BROAD ST. AT CEDAR CLIFF
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

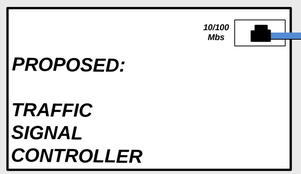
TRAFFIC SIGNAL CABINET ASSEMBLY



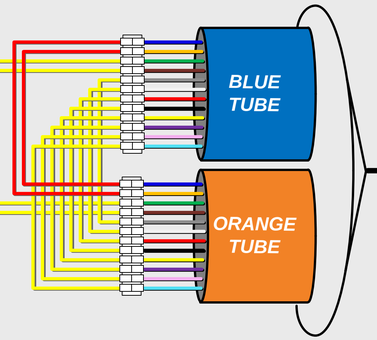
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3291: MORSE RD. AT WESTERVILLE RD.
SEE SHEET 911

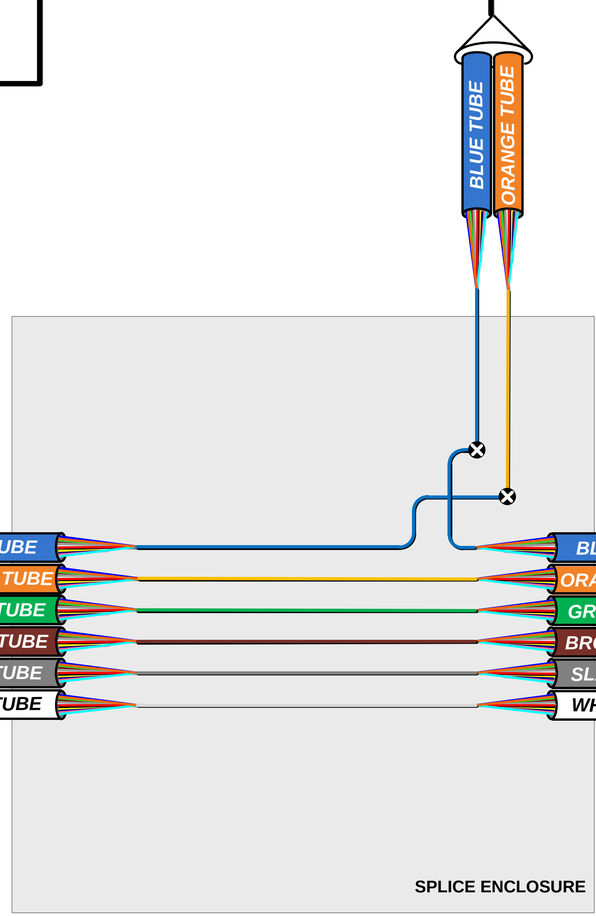
PORT 6: INTERSECTION N017: MALIN ST. AT MORSE RD.
SEE SHEET 1004



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



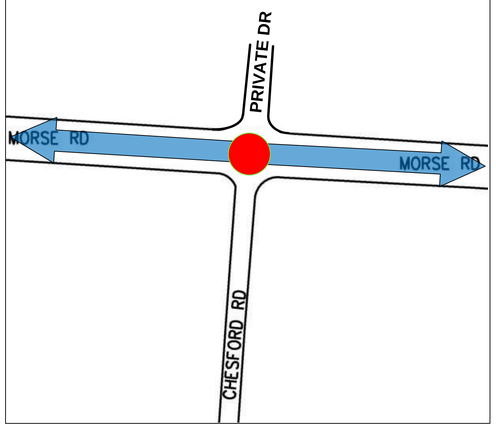
SEE SHEET 1027
INTERSECTION N040:
CLEVELAND AVE. AT
MORSE RD.

SEE SHEET 911
INTERSECTION 3291:
MORSE RD. AT
WESTERVILLE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 3290
REFER TO SHEET 418 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3290: CHESFORD RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

910
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 LH 8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 270032.3: I-270 AT MORSE RD.
SEE SHEET 1096

PORT 6: INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.
SEE SHEET 1027

PORT 7: INTERSECTION 3290: CHESFORD RD. AT MORSE RD.
SEE SHEET 910

PORT 8: INTERSECTION 3229: EASTON WAY AT STELZER RD.
SEE SHEET 903

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

BLUE TUBE

ORANGE TUBE

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

ANALOG VIDEO

10/100 Mbs

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 911A

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

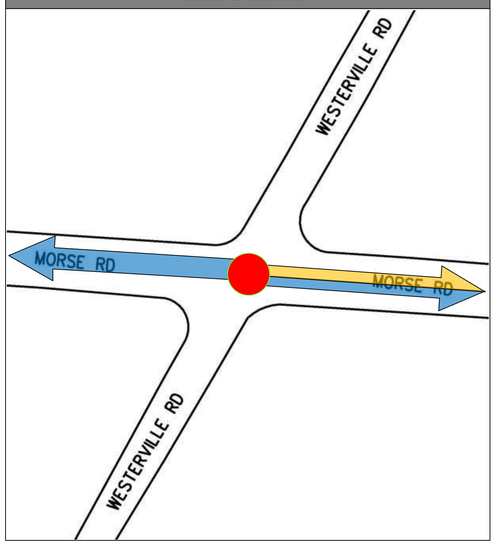
MATCHLINE 'B' - SEE SHEET 911A

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



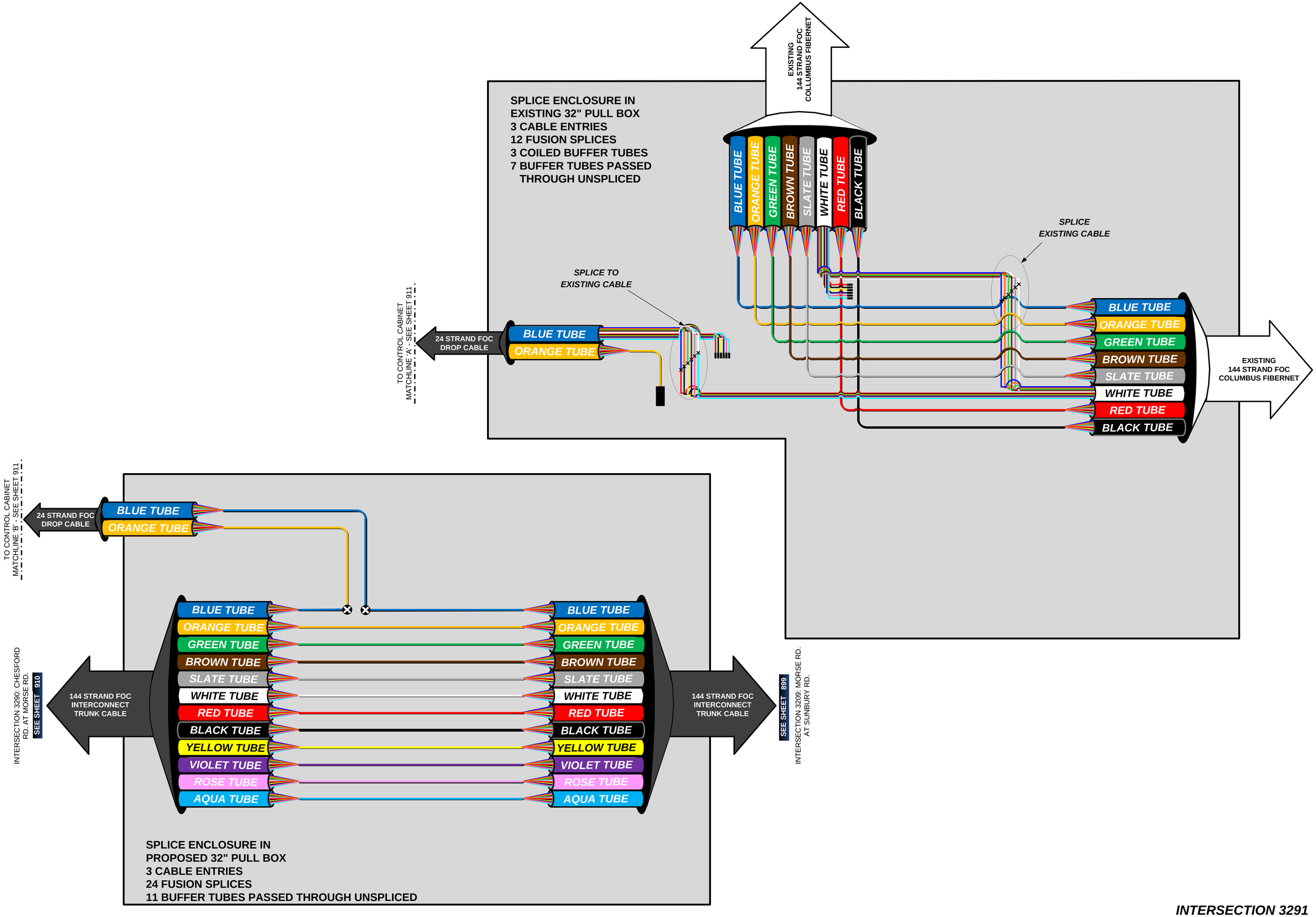
INTERSECTION 3291

REFER TO SHEET 421 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3291: MORSE RD. AT WESTERVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



INTERSECTION 3291

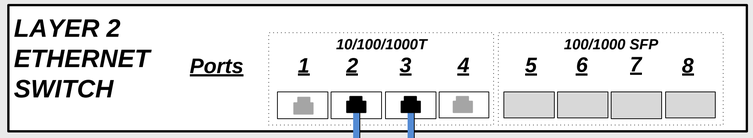
PID NUMBER 13034
2762 DR. E

INTERSECTION 3291: MORSE RD. AT WESTERVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

911A
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

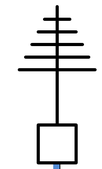


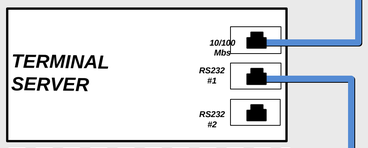
ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 3306: KENNEDY RD. AT WAGGONER RD.
SEE SHEET 913

WIRELESS LINK TO
INTERSECTION 3306: KENNEDY
RD. AT WAGGONER RD.

SEE SHEET 913



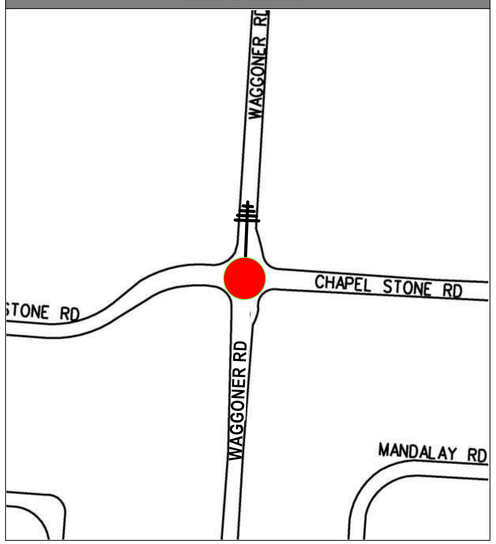




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 3303

REFER TO SHEET 322 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3303: CHAPEL STONE RD. AT WAGGONER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8
		10/100 Mbs	10/100 Mbs				

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION SIG4840: JEFFERSON RUN & ROYAL ELM DR. AT WAGGONER RD.
SEE SHEET 1064

PORT 4: INTERSECTION 3303: CHAPEL STONE RD. AT WAGGONER RD.
SEE SHEET 912

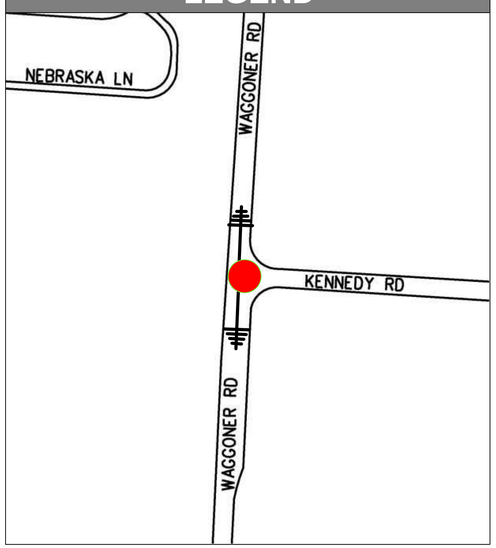
WIRELESS LINK TO INTERSECTION SIG4840: JEFFERSON RUN & ROYAL ELM DR. AT WAGGONER RD.
SEE SHEET 1064

SEE SHEET 912
WIRELESS LINK TO INTERSECTION 3303: CHAPEL STONE RD. AT WAGGONER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



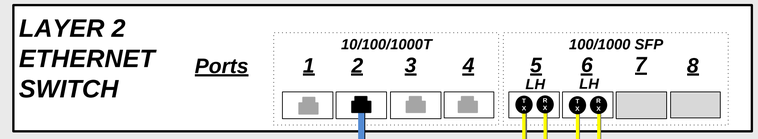
INTERSECTION 3306
REFER TO SHEET 323 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 3306: KENNEDY RD. AT WAGGONER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

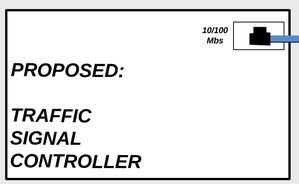
TRAFFIC SIGNAL CABINET ASSEMBLY



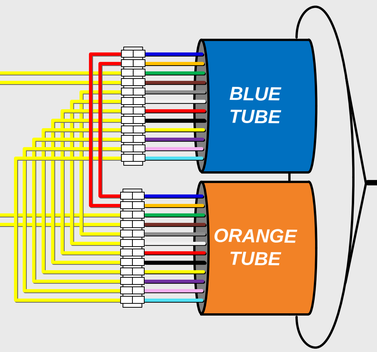
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.
SEE SHEET 1104

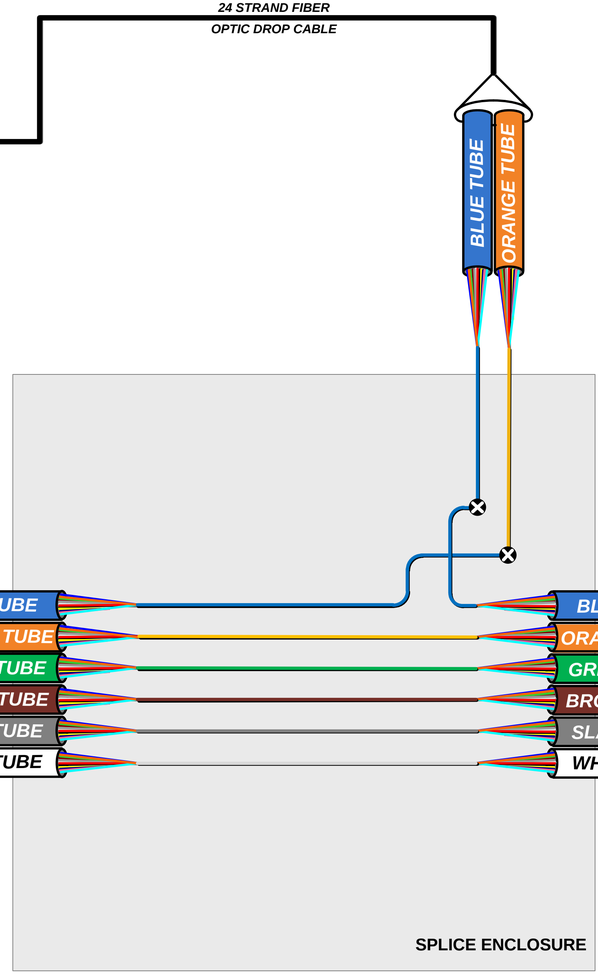
PORT 6: INTERSECTION 4111: HENDERSON RD. AT KENNY RD.
SEE SHEET 927



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



SPLICE ENCLOSURE

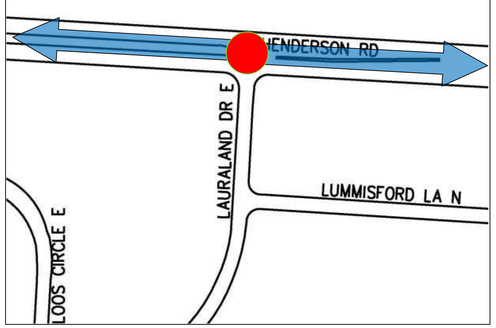
SEE SHEET 915
INTERSECTION 4031: HENDERSON RD. AT KNIGHTSBRIDGE BLVD. & DESANTIS CT.

SEE SHEET 926
INTERSECTION 4110: HENDERSON RD. AT OLENTANGY RIVER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4030

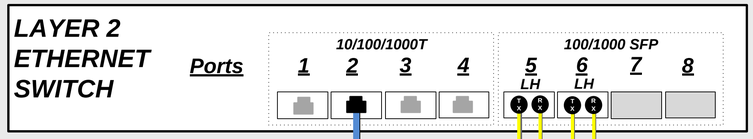
REFER TO SHEET 389 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4030: HENDERSON RD. AT LAURALAND DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

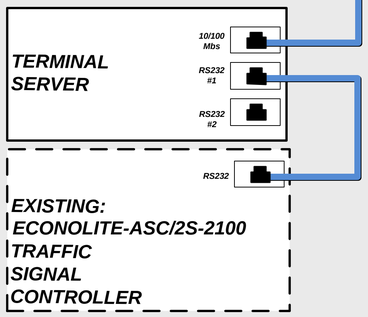
TRAFFIC SIGNAL CABINET ASSEMBLY



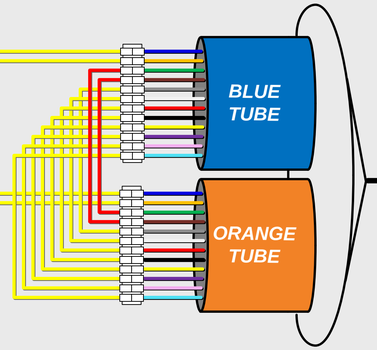
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4110: HENDERSON RD. AT OLENTANGY RIVER RD.
SEE SHEET 926

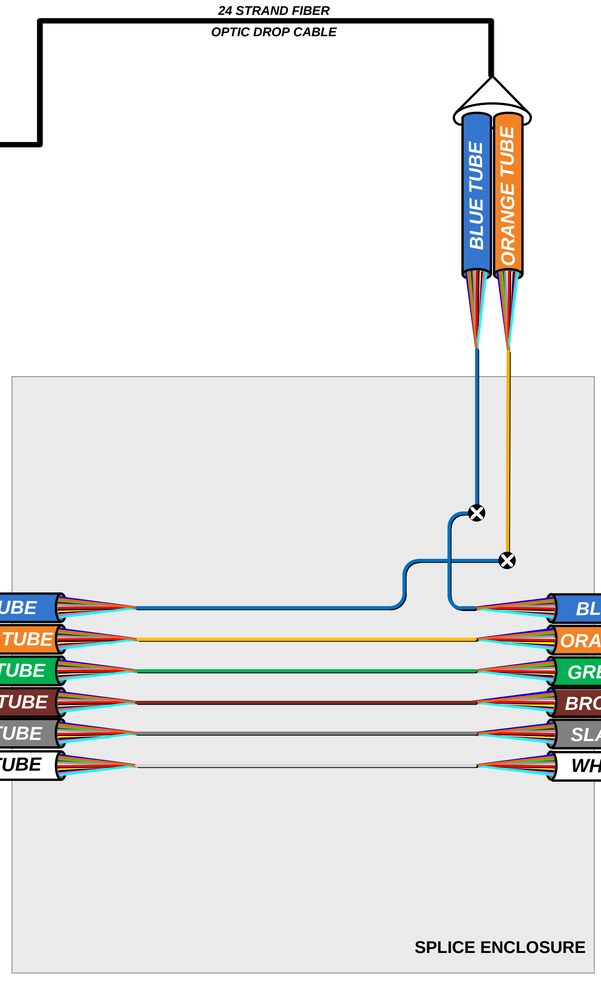
PORT 6: INTERSECTION 4112: HENDERSON RD. AT WINTERSET DR.
SEE SHEET 928



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE



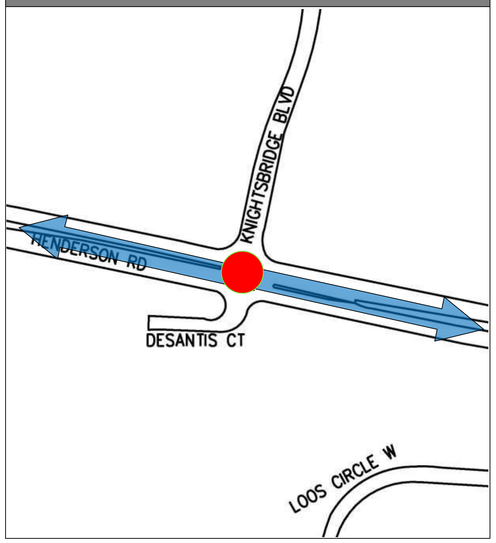
SEE SHEET 927
INTERSECTION 4111:
HENDERSON RD. AT
KENNY RD.

SEE SHEET 914
INTERSECTION 4030:
HENDERSON RD. AT
LAURALAND DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4031

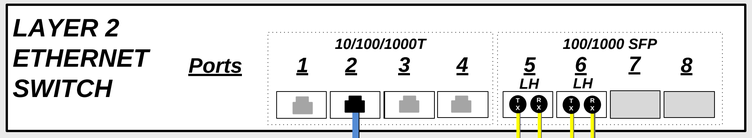
REFER TO SHEET 390 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4031: HENDERSON RD. AT KNIGHTSBRIDGE BLVD. & DESANTIS CT.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

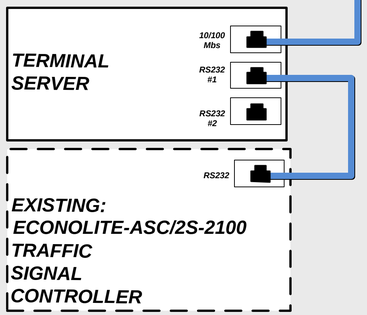
TRAFFIC SIGNAL CABINET ASSEMBLY



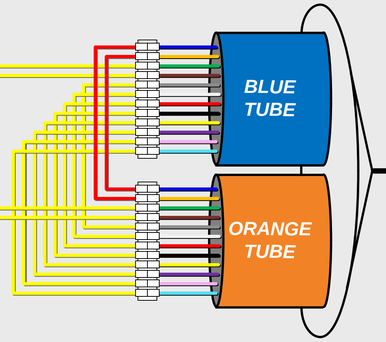
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4068: GOODALE ST.AT NEIL AVE.
SEE SHEET 918

PORT 6: INTERSECTION 0113: BRODBELT LN. AT NEIL AVE.
SEE SHEET 865

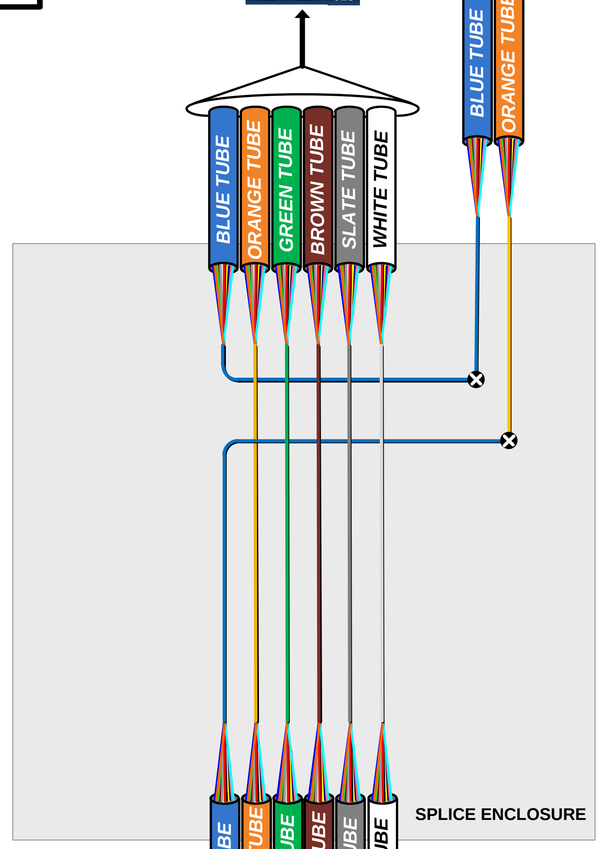


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION 4068: GOODALE ST.AT
NEIL AVE.
SEE SHEET 918



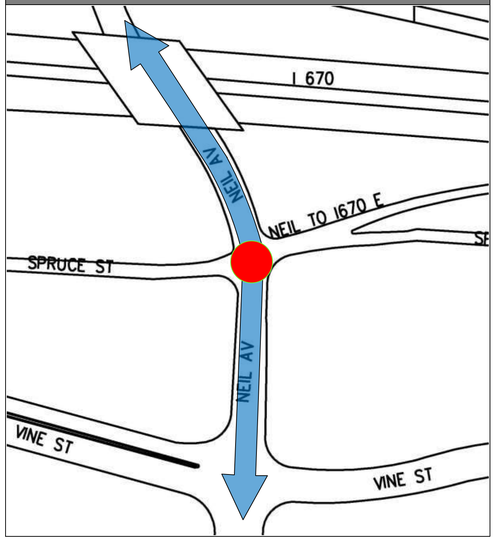
SEE SHEET 921

INTERSECTION 4075: NEIL AVE. AT
VINE ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4066

REFER TO SHEET 186 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4066: NEIL AVE. AT SPRUCE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 6 7 8

5 LH, 6 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0106: FRONT ST. & PARK ST. AT VINE ST.
SEE SHEET 860

PORT 6: INTERSECTION 0112: KILBOURNE ST. AT VINE ST.
SEE SHEET 864

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

SEE SHEET 860

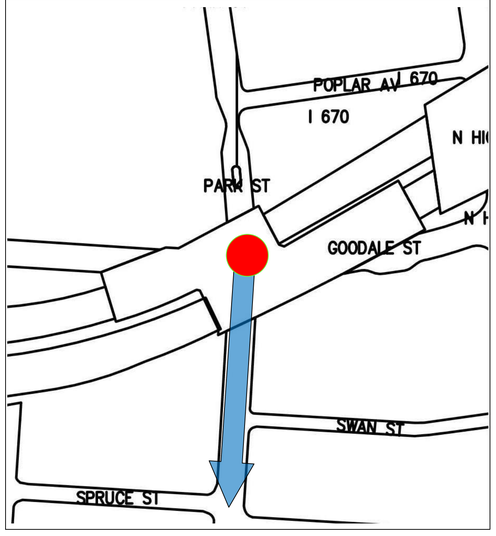
INTERSECTION 0106: FRONT ST. & PARK ST. AT VINE ST.

PATCH PANEL ENCLOSURE – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4067

REFER TO SHEET 195 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4067: GOODALE ST. AT PARK ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4075: NEIL AVE. AT VINE ST.
SEE SHEET 921

PORT 6: INTERSECTION 4066: NEIL AVE. AT SPRUCE ST.
SEE SHEET 916

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

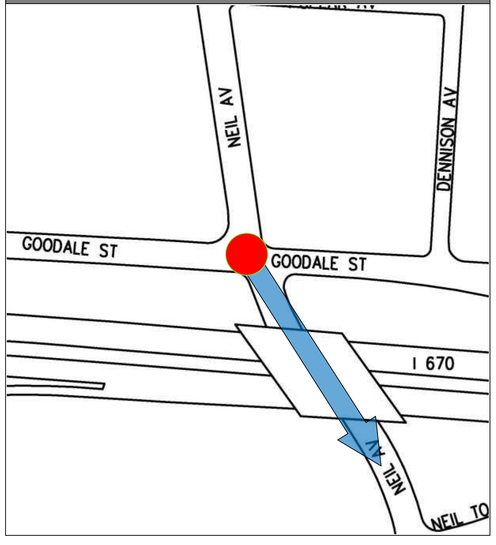
SEE SHEET 916

INTERSECTION 4066: NEIL AVE. AT SPRUCE ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4068

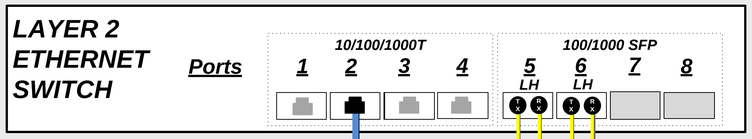
REFER TO SHEET 192 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4068: GOODALE ST.AT NEIL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

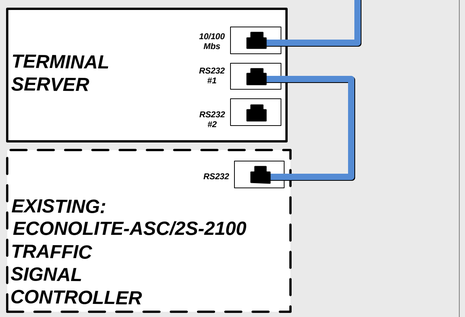
TRAFFIC SIGNAL CABINET ASSEMBLY



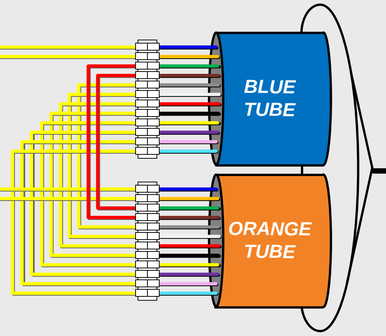
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4075: NEIL AVE. AT VINE ST.
SEE SHEET 921

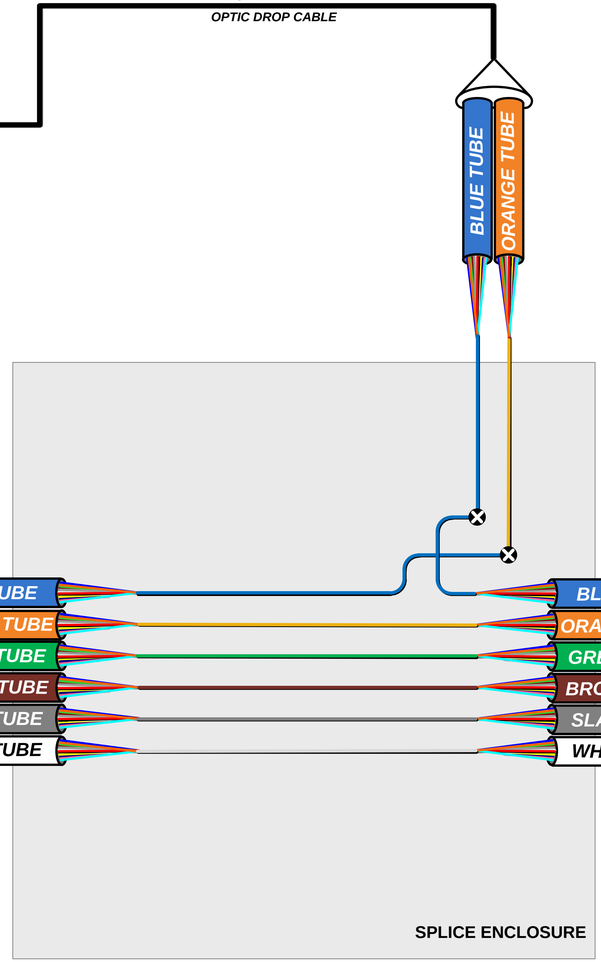
PORT 6: INTERSECTION 4085: OLENTANGY RIVER RD. AT SR-315 SB RAMPS
SEE SHEET 922



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE



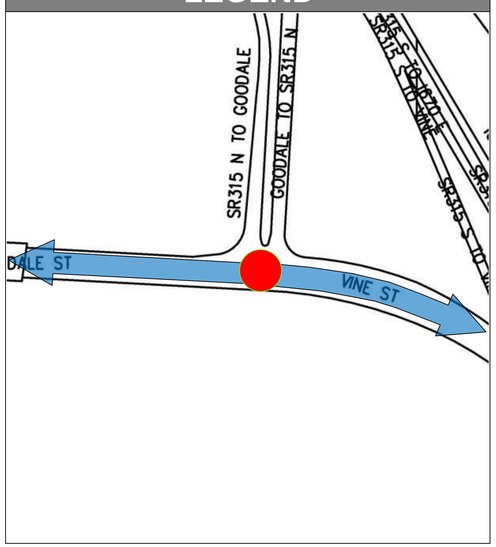
SEE SHEET 920
INTERSECTION 4071:
GOODALE ST. AT OLENTANGY
RIVER RD. & TWIN RIVERS DR.

SEE SHEET 983
INTERSECTION 4246:
GOODALE ST. AT VINE ST.
& MICHIGAN AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

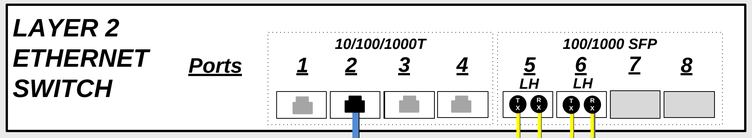
INTERSECTION 4070
REFER TO SHEET 194 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4070: GOODALE ST. AT SR-315 NB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

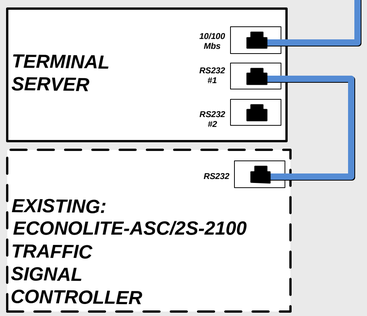
TRAFFIC SIGNAL CABINET ASSEMBLY



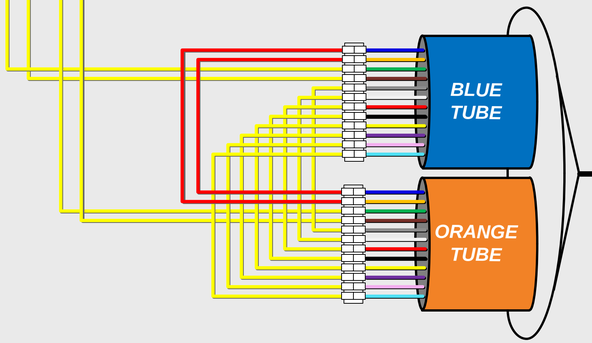
ETHERNET SWITCH PORT DESTINATION

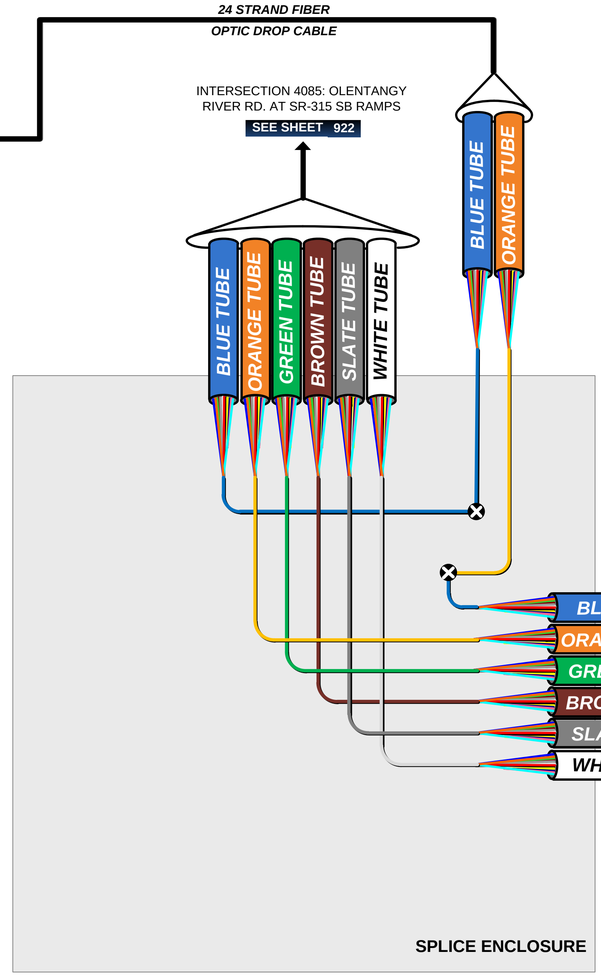
PORT 5: INTERSECTION 4254: OLENTANGY RIVER RD. AT GOWDY FIELD DR. & TIME WARNER DR.
SEE SHEET 986

PORT 6: INTERSECTION 4246: GOODALE ST. AT VINE ST. & MICHIGAN AVE.
SEE SHEET 983



PATCH PANEL ENCLOSURE – 24 TERMINATION

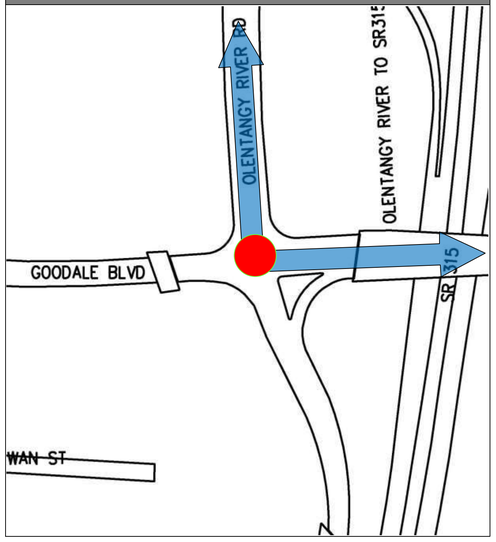




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4071

REFER TO SHEET 197 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4071: GOODALE ST. AT OLENTANGY RIVER RD. & TWIN RIVERS DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH — **Ports**

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4068: GOODALE ST.AT NEIL AVE.
SEE SHEET 918

PORT 6: INTERSECTION 0099: NATIONWIDE BLVD. AT NEIL AVE.
SEE SHEET 854

PORT 7: INTERSECTION 0106: FRONT ST. & PARK ST. AT VINE ST.
SEE SHEET 860

PORT 8: INTERSECTION 4070: GOODALE ST. AT SR-315 NB RAMPS
SEE SHEET 919

TERMINAL SERVER
10/100 Mbs
RS232 #1
RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX
CCTV/HEATER POWER
10/100 MBS
ANALOG VIDEO

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

COMPOSITE CCTV CABLE → PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

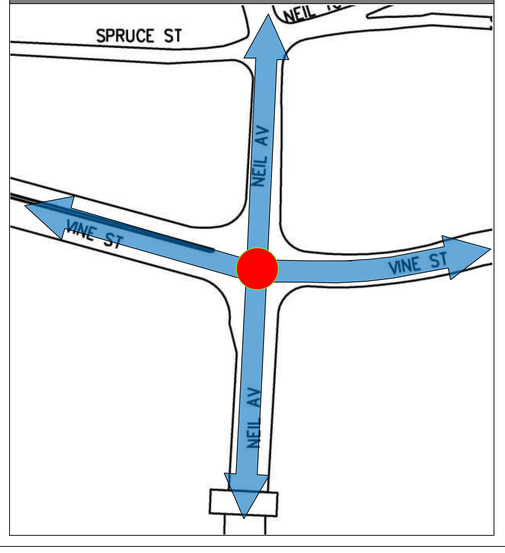
24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 921A
TO SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4075
REFER TO SHEET 187 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4075: NEIL AVE. AT VINE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 4066: NEIL AVE.
AT SPRUCE ST.

SEE SHEET 916

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 921

24 STRAND FOC DROP CABLE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC DROP CABLE

BLUE TUBE
ORANGE TUBE

SEE SHEET 983
INTERSECTION 4246:
GOODALE ST. AT VINE ST. &
MICHIGAN AVE.

144 STRAND FOC INTERCONNECT TRUNK CABLE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 864
INTERSECTION 0112:
KILBOURNE ST. AT VINE ST.

SPLICE ENCLOSURE IN
EXISTING 32" PULL BOX
6 CABLE ENTRIES
216 FUSION SPLICES
8 BUFFER TUBES PASSED
THROUGH UNSPLICED

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 865
INTERSECTION 0113: BRODBELT LN. AT
NEIL AVE.

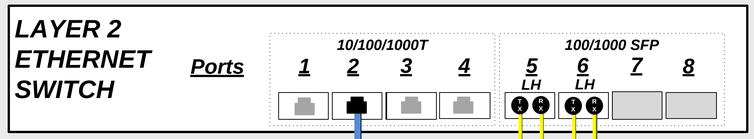
INTERSECTION 4075

PID NUMBER 13034
2762 DR. E

INTERSECTION 4075: NEIL AVE. AT VINE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

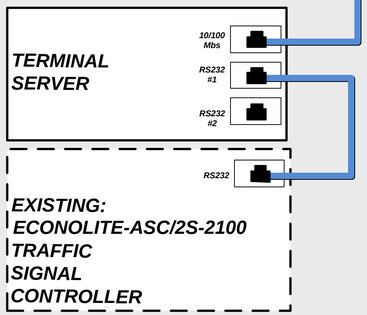
TRAFFIC SIGNAL CABINET ASSEMBLY



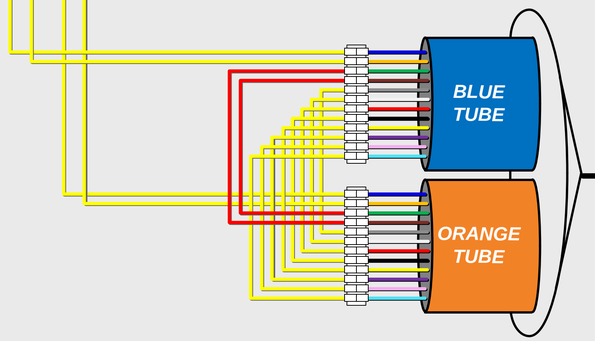
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4254: OLENTANGY RIVER RD. AT GOWDY FIELD DR. & TIME WARNER DR.
SEE SHEET 986

PORT 6: INTERSECTION 4070: GOODALE ST. AT SR-315 NB RAMPS
SEE SHEET 919

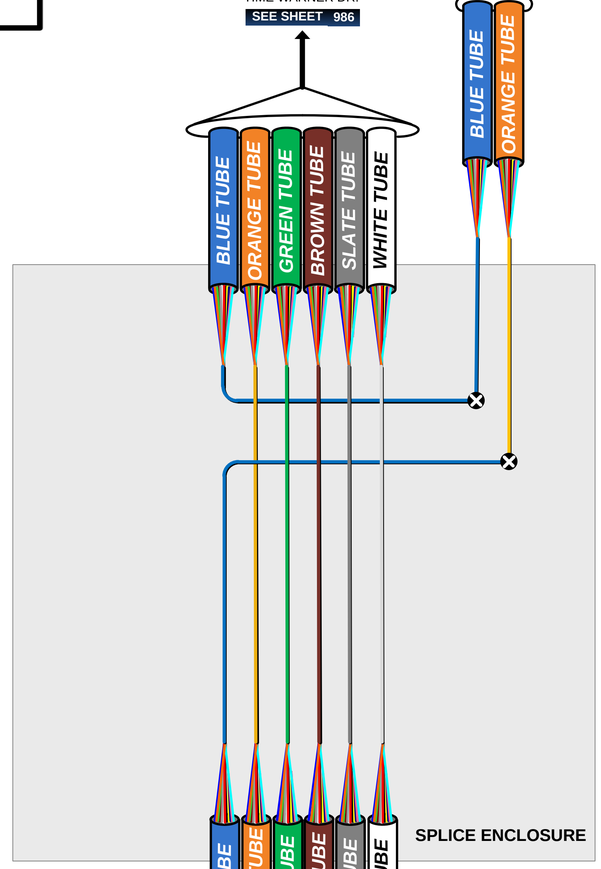


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION 4254: OLENTANGY RIVER RD. AT GOWDY FIELD DR. & TIME WARNER DR.
SEE SHEET 986



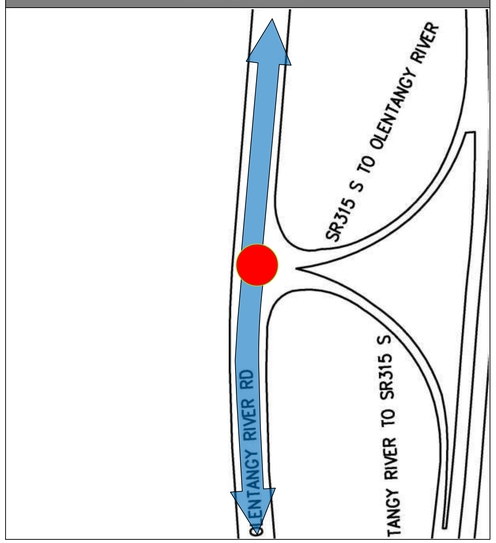
144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 920
INTERSECTION 4071: GOODALE ST. AT OLENTANGY RIVER RD. & TWIN RIVERS DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



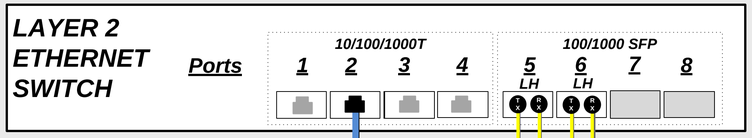
INTERSECTION 4085
REFER TO SHEET 193 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4085: OLENTANGY RIVER RD. AT SR-315 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

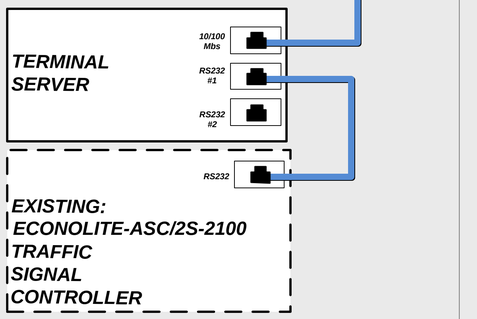
TRAFFIC SIGNAL CABINET ASSEMBLY

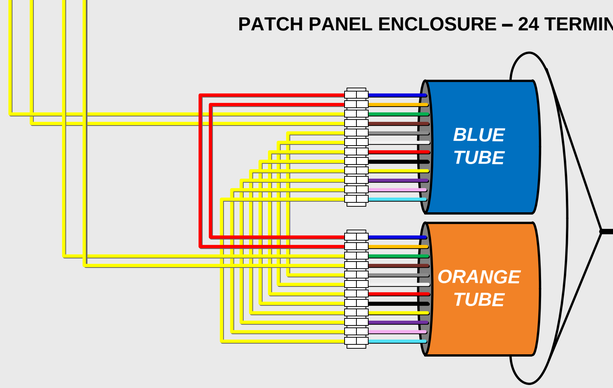


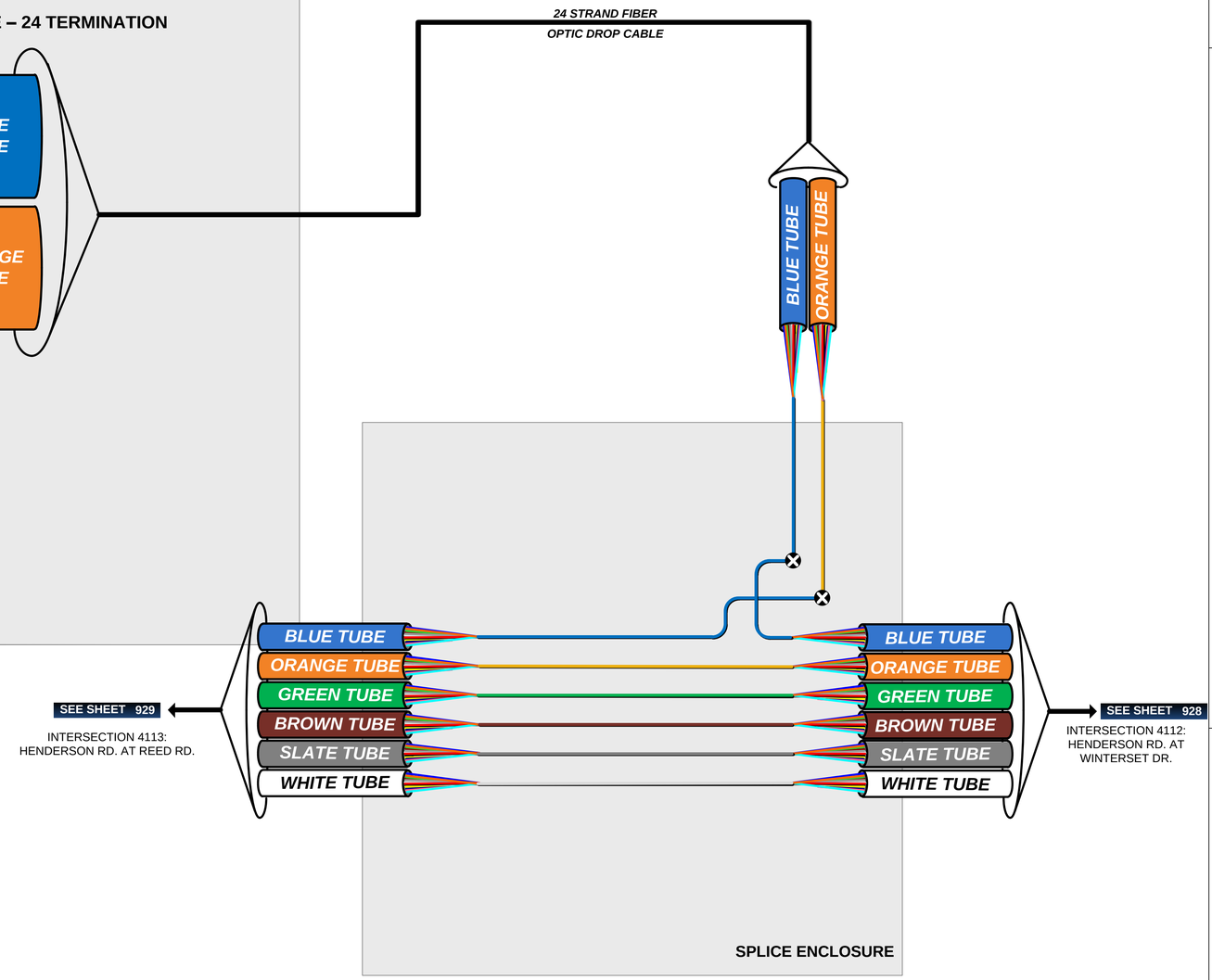
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4111: HENDERSON RD. AT KENNY RD.
SEE SHEET 927

PORT 6: INTERSECTION 4114: GETTYSBURG RD. & GREEN TREE CENTER DR. AT HENDERSON RD.
SEE SHEET 930







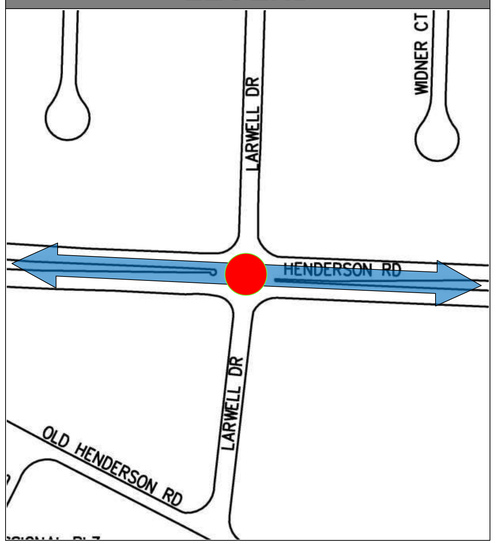
SEE SHEET 929
INTERSECTION 4113:
HENDERSON RD. AT REED RD.

SEE SHEET 928
INTERSECTION 4112:
HENDERSON RD. AT
WINTERSET DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4092

REFER TO SHEET 391 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4092: HENDERSON RD. AT LARWELL DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 6 7 8

5 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.
SEE SHEET 1104

EXISTING:
ECONOLITE-ASC/3
TRAFFIC
SIGNAL
CONTROLLER

10/100Mbs
ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER
OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

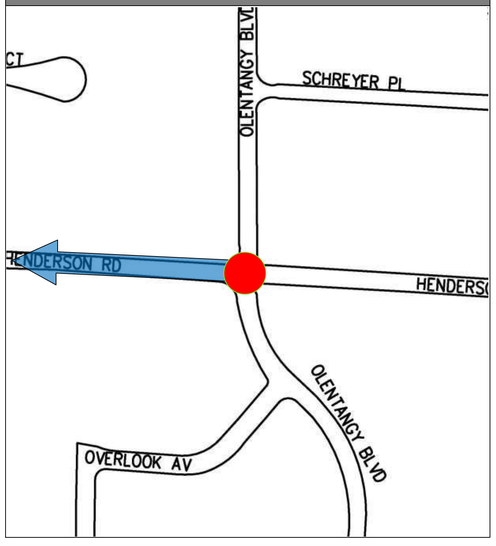
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1105
EXISTING COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4108

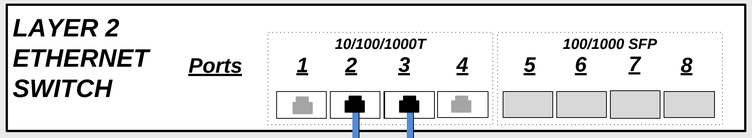
REFER TO SHEET 392 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4108: HENDERSON RD. AT OLENTANGY BLVD.
COMMUNICATIONS DIAGRAM

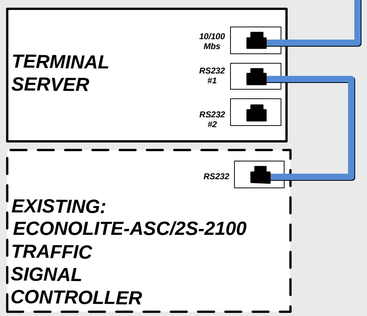
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: EXISTING COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.
SEE SHEET 1104



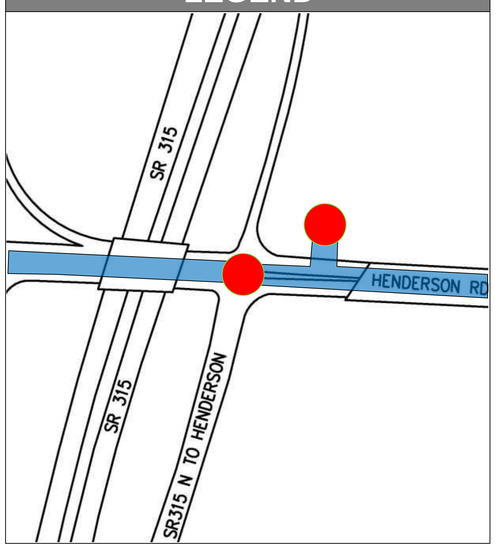
SEE SHEET 1104

EXISTING COMMUNICATION
NODE 315007.8: SR-315 AT
HENDERSON RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4109

REFER TO SHEET 393 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4109: HENDERSON RD. AT SR-315 NB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH — **Ports**

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4117: JASONWAY AVE. AT OLENTANGY RIVER RD.
SEE SHEET 933

PORT 6: EXISTING COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.
SEE SHEET 1104

PORT 7: INTERSECTION 4031: HENDERSON RD. AT KNIGHTSBRIDGE BLVD. & DESANTIS CT.
SEE SHEET 915

TERMINAL SERVER
- 10/100 Mbs
- RS232 #1
- RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

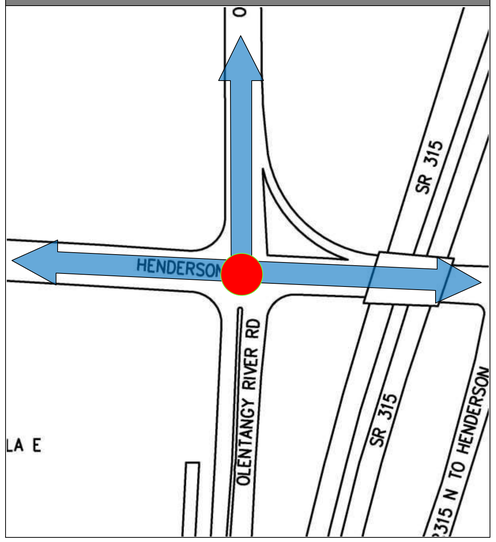
TO SPLCIE ENCLOSURE
MATCHLINE 'A' - SEE SHEET 926A

PATCH PANEL ENCLOSURES : (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND

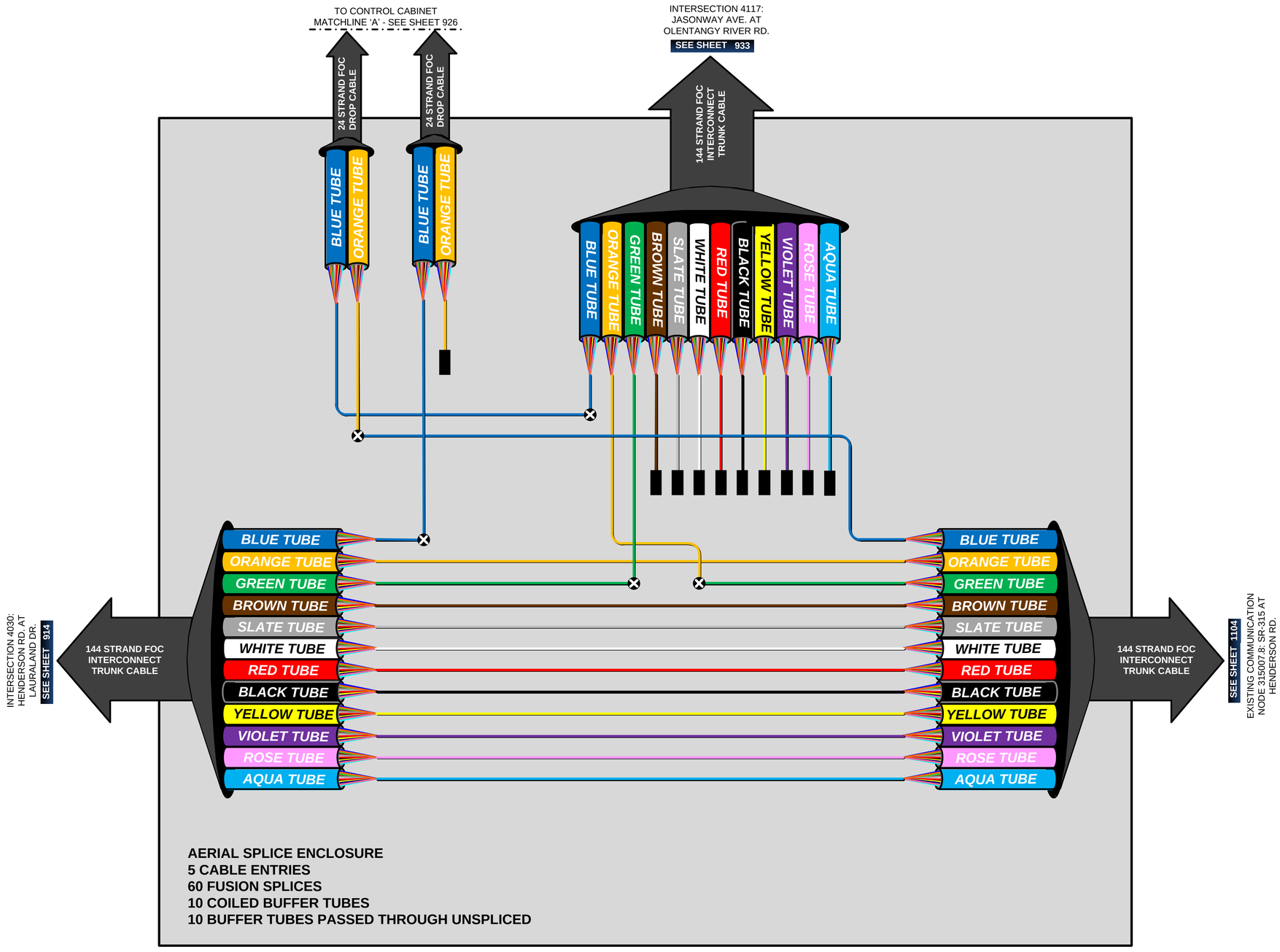


INTERSECTION 4110
REFER TO SHEET 395 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4110: HENDERSON RD. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

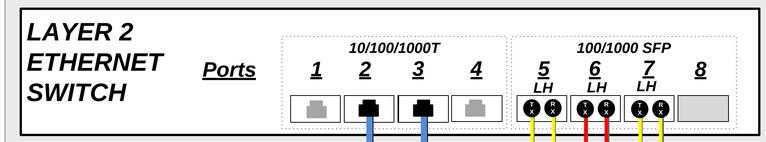
INTERSECTION 4110: HENDERSON RD. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

926A
1107

INTERSECTION 4110

TRAFFIC SIGNAL CABINET ASSEMBLY

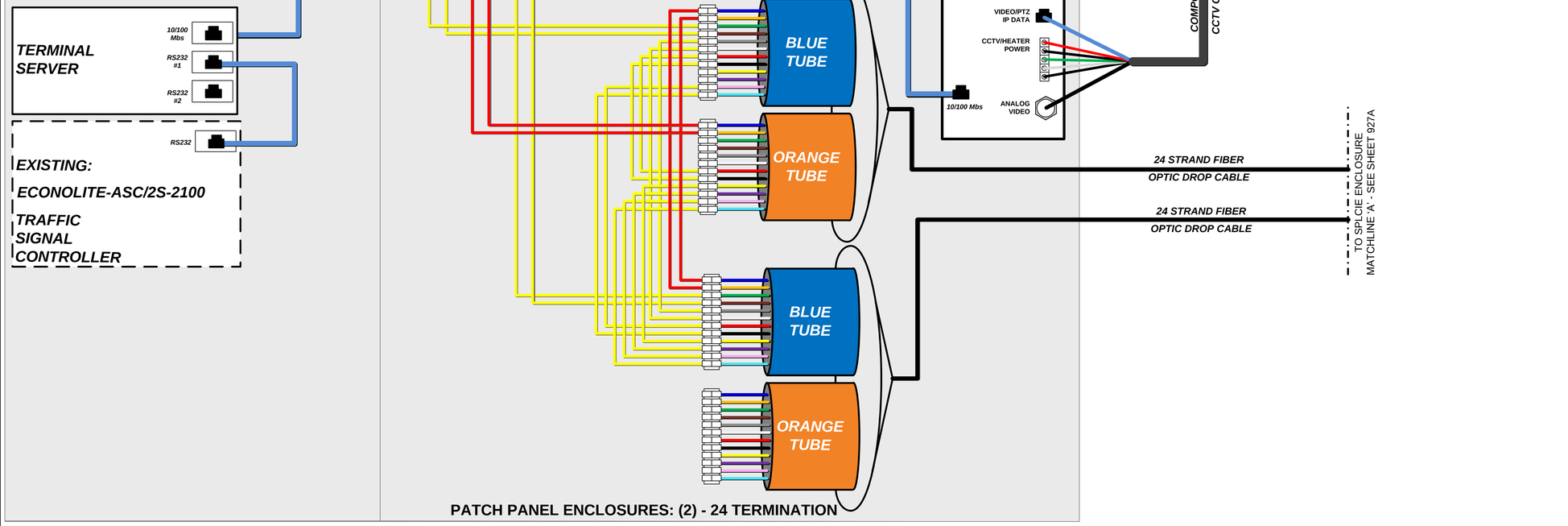


ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4030: HENDERSON RD. AT LAURALAND DR.
SEE SHEET 914

PORT 6: INTERSECTION 4116: KENNY RD. AT OLD HENDERSON RD.
SEE SHEET 932

PORT 7: INTERSECTION 4092: HENDERSON RD. AT LARWELL DR.
SEE SHEET 923

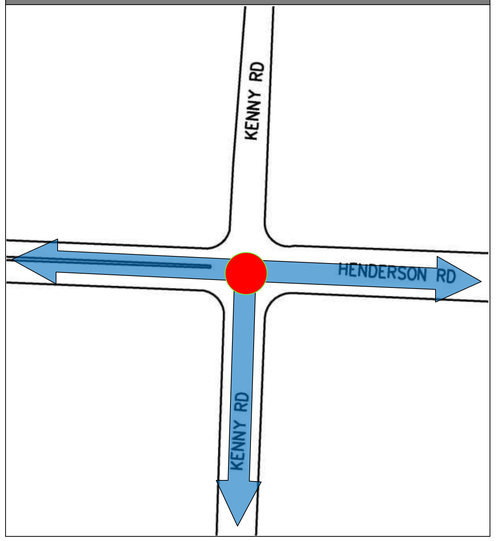


PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



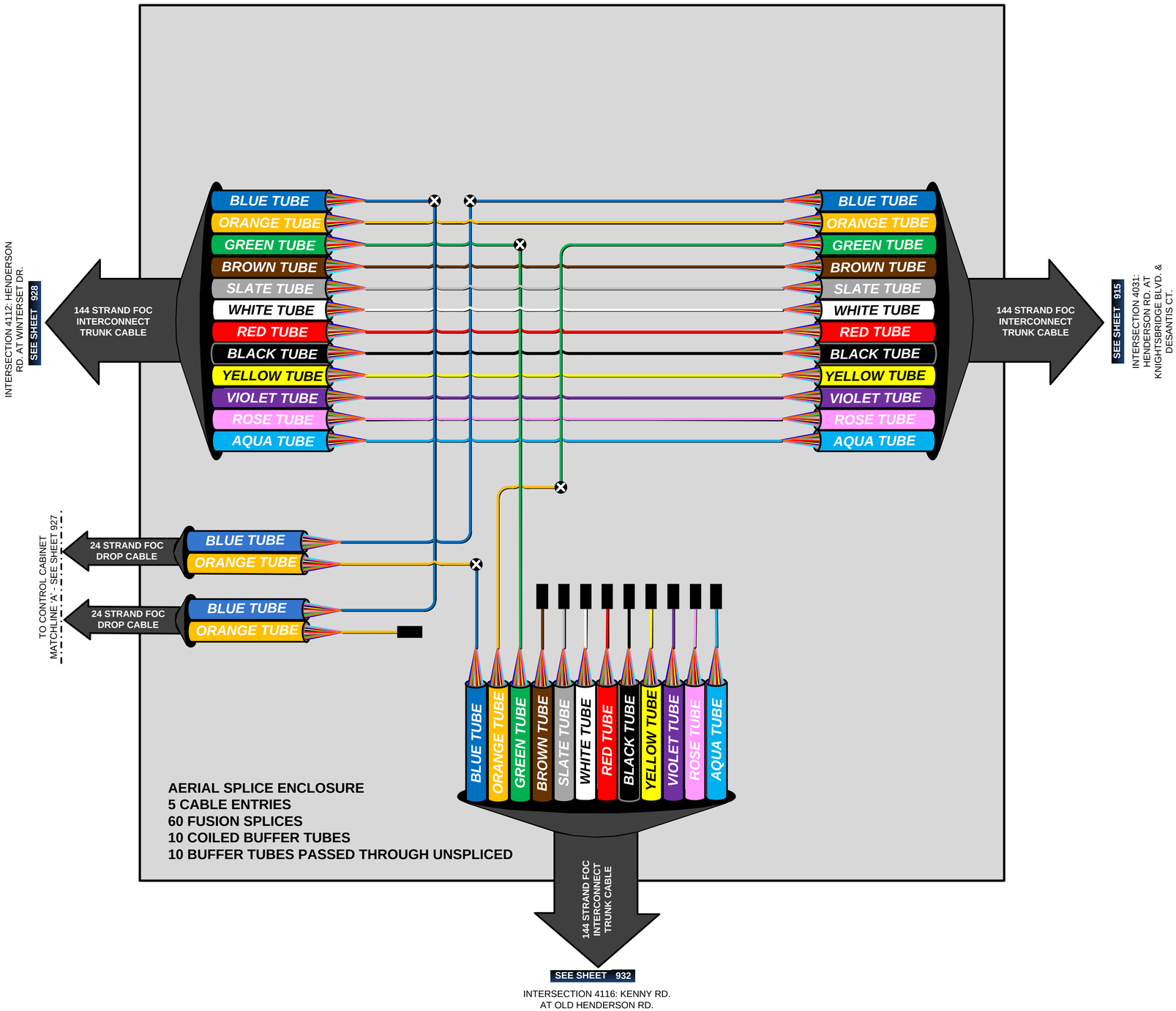
INTERSECTION 4111

REFER TO SHEET 396 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4111: HENDERSON RD. AT KENNY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

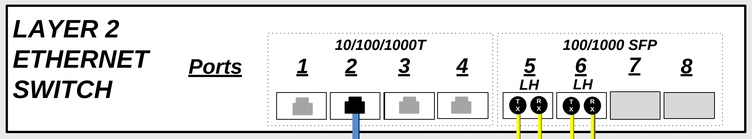
INTERSECTION 4111: HENDERSON RD. AT KENNY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

927A
1107

INTERSECTION 4111

TRAFFIC SIGNAL CABINET ASSEMBLY



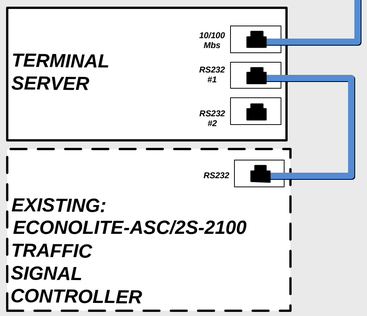
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4031: HENDERSON RD. AT KNIGHTSBRIDGE BLVD. & DESANTIS CT.

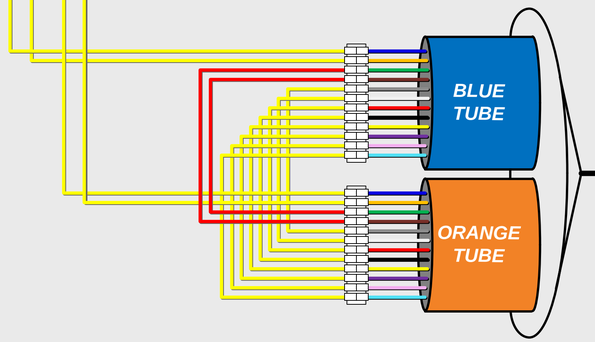
SEE SHEET 915

PORT 6: INTERSECTION 4113: HENDERSON RD. AT REED RD.

SEE SHEET 929

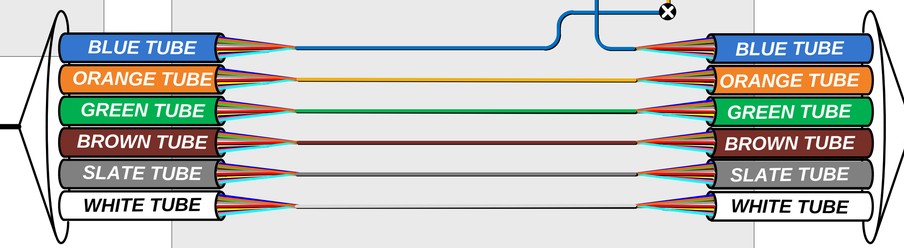


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE





SEE SHEET 923
INTERSECTION 4092: HENDERSON RD. AT LARWELL DR.

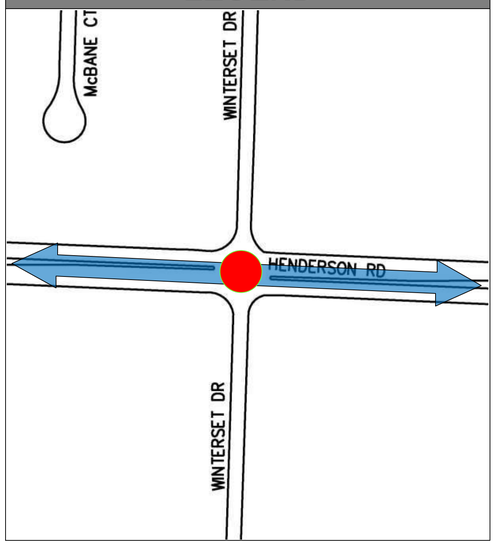
SEE SHEET 927
INTERSECTION 4111: HENDERSON RD. AT KENNY RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4112
REFER TO SHEET 397 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4112: HENDERSON RD. AT WINTERSET DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7 LH, 8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4167: FRANCISCO RD. AT REED RD.
SEE SHEET 948

PORT 6: INTERSECTION 4112: HENDERSON RD. AT WINTERSET DR.
SEE SHEET 928

PORT 7: INTERSECTION 4115: DIERKER RD. AT HENDERSON RD.
SEE SHEET 931

PORT 8: INTERSECTION 4167: FRANCISCO RD. AT REED RD.
SEE SHEET 948

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

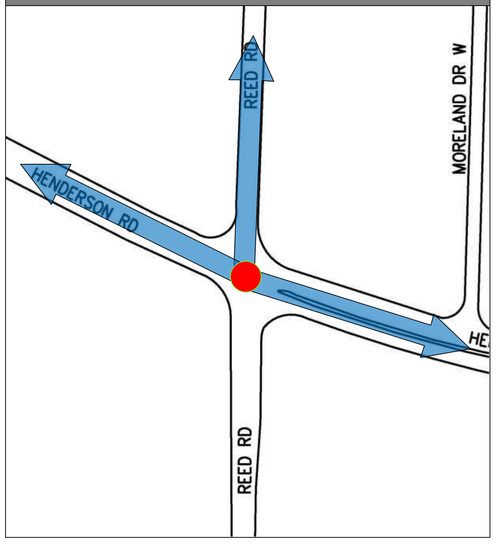
TO SPLCIE ENCLOSURE
MATCHLINE 'A' - SEE SHEET 929A

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



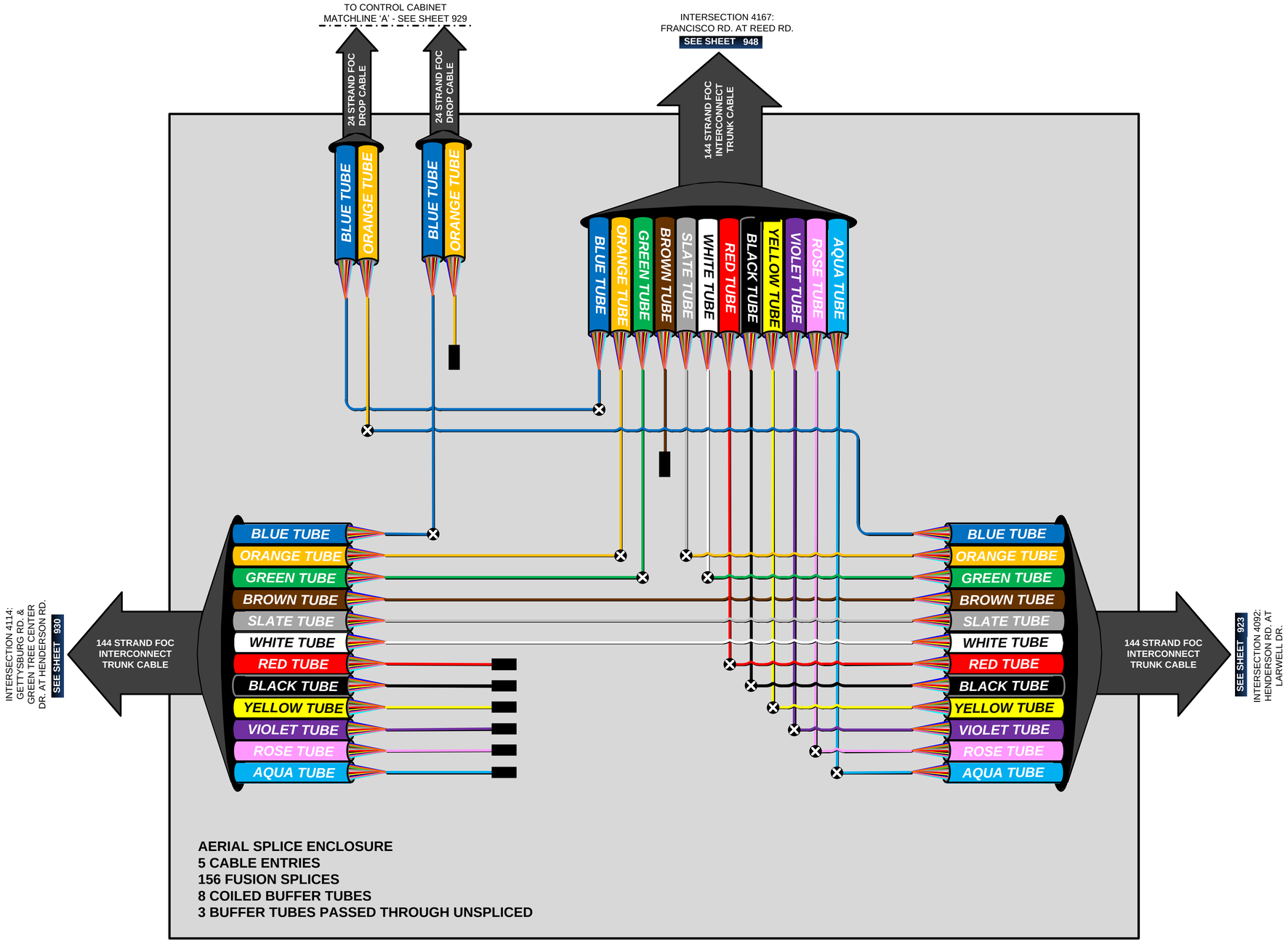
INTERSECTION 4113

REFER TO SHEET 398 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4113: HENDERSON RD. AT REED RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

INTERSECTION 4113: HENDERSON RD. AT REED RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

929A
1107

INTERSECTION 4113

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4092: HENDERSON RD. AT LARWELL DR.
SEE SHEET 923

PORT 6: INTERSECTION 4216: ARLINGTON CENTRE BLVD. AT HENDERSON RD.
SEE SHEET 973

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 931

INTERSECTION 4115: DIERKER RD. AT HENDERSON RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 929

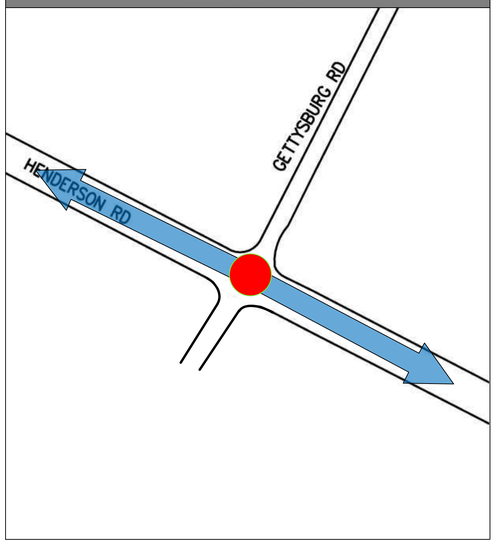
INTERSECTION 4113: HENDERSON RD. AT REED RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4114

REFER TO SHEET 399 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4114: GETTYSBURG RD. & GREEN TREE CENTER DR. AT HENDERSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4113: HENDERSON RD. AT REED RD.
SEE SHEET 929

PORT 6: INTERSECTION 4216: ARLINGTON CENTRE BLVD. AT HENDERSON RD.
SEE SHEET 973

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING:
ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

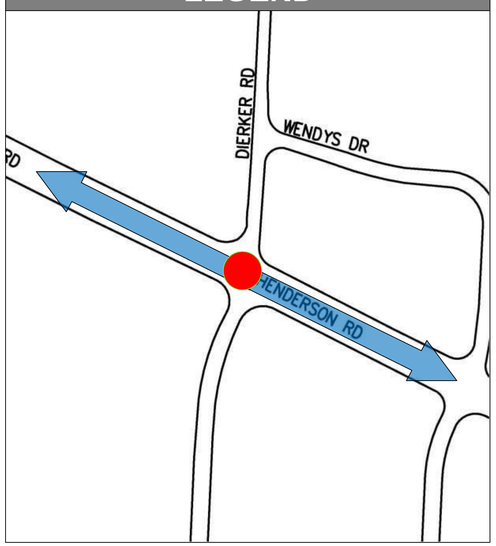
SEE SHEET 973
INTERSECTION 4216: ARLINGTON CENTRE BLVD. AT HENDERSON RD.

SEE SHEET 930
INTERSECTION 4114: GETTYSBURG RD. & GREEN TREE CENTER DR. AT HENDERSON RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

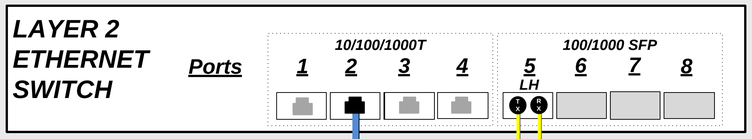
INTERSECTION 4115
REFER TO SHEET 401 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4115: DIERKER RD. AT HENDERSON RD.
COMMUNICATIONS DIAGRAM

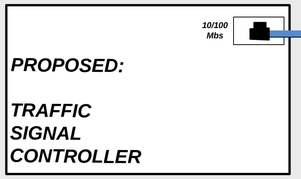
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

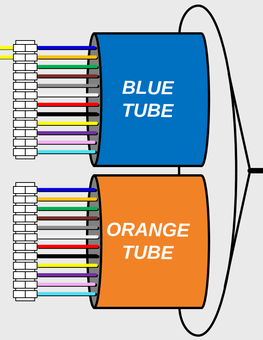


ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4111: HENDERSON RD. AT KENNY RD.
SEE SHEET 927

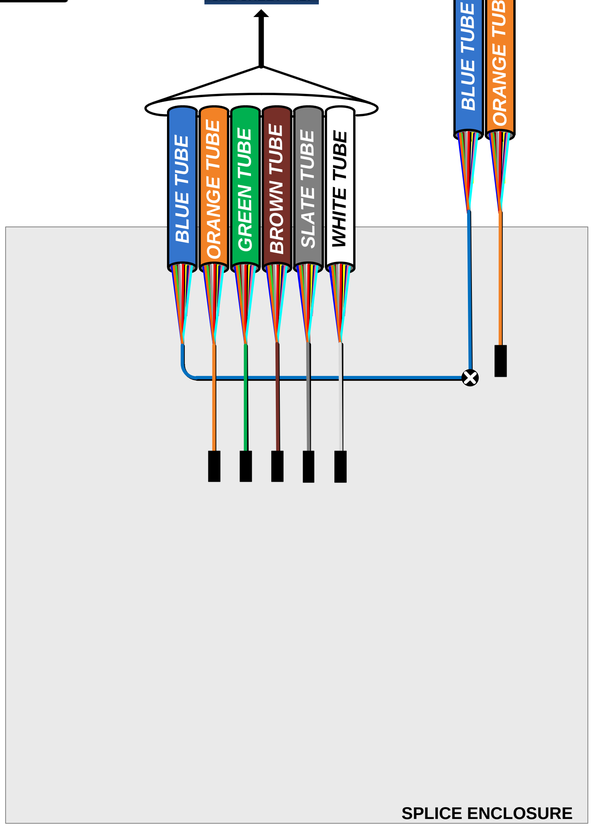


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION 4111: HENDERSON
RD. AT KENNY RD.
SEE SHEET 927

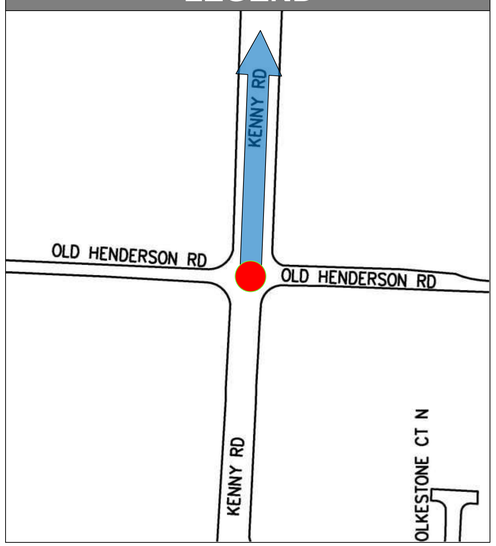


SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

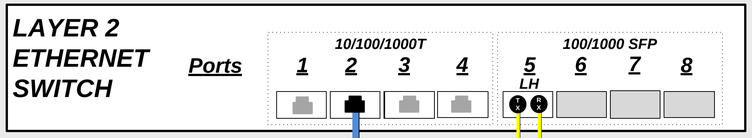
INTERSECTION 4116
REFER TO SHEET 402 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4116: KENNY RD. AT OLD HENDERSON RD.
COMMUNICATIONS DIAGRAM

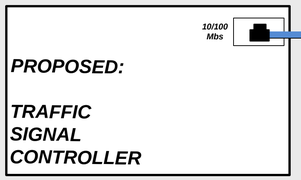
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

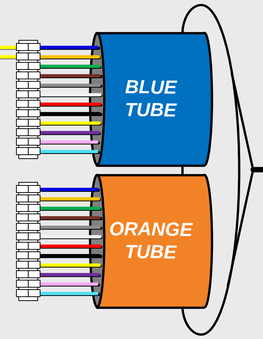


ETHERNET SWITCH PORT DESTINATION

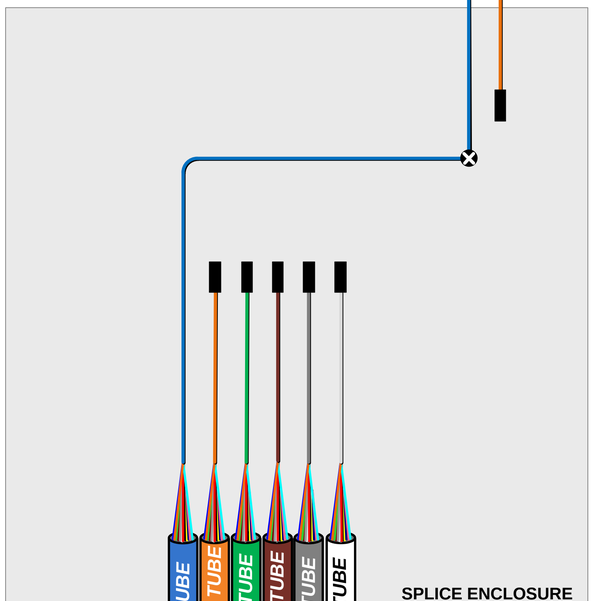
PORT 5: INTERSECTION 4110: HENDERSON RD. AT OLENTANGY RIVER RD.
SEE SHEET 926



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



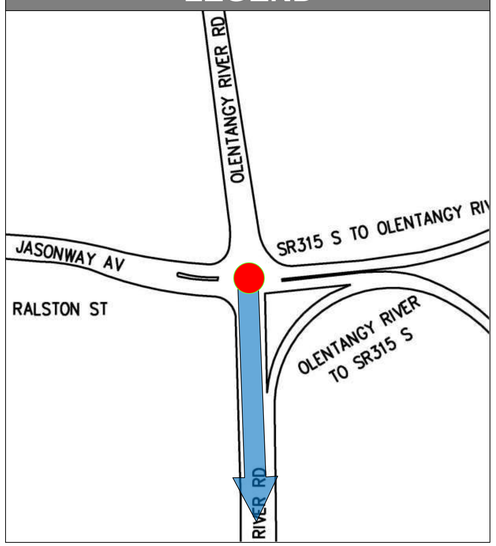
SEE SHEET 926

INTERSECTION 4110: HENDERSON RD. AT OLENTANGY RIVER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4117

REFER TO SHEET 403 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4117: JASONWAY AVE. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE 315008.6: SR-315 AT BETHEL RD.
SEE SHEET 1106

PORT 6: INTERSECTION 4192: BETHEL RD. AT JASONWAY AVE.
SEE SHEET 962

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- ANALOG VIDEO
- 10/100 Mbs

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

SPLICE ENCLOSURE

- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

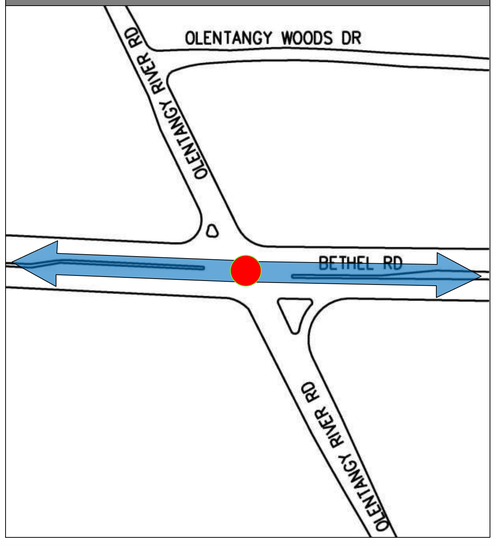
SEE SHEET 940
INTERSECTION 4141: BETHEL RD. AT OLENTANGY PLAZA & OLENTANGY SQ.

SEE SHEET 1107
PROPOSED COMMUNICATION NODE 315008.6: SR-315 AT BETHEL RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4118

REFER TO SHEET 275 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4118: BETHEL RD. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4235: GODOWN RD. AT PEPPERELL DR. & WEST CASE RD.
SEE SHEET 981

PORT 6: INTERSECTION 4192: BETHEL RD. AT JASONWAY AVE.
SEE SHEET 962

PORT 7: INTERSECTION 4122: BETHEL RD. AT MCKITRICK BLVD.
SEE SHEET 937

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 935A
TO SPLICE ENCLOSURE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

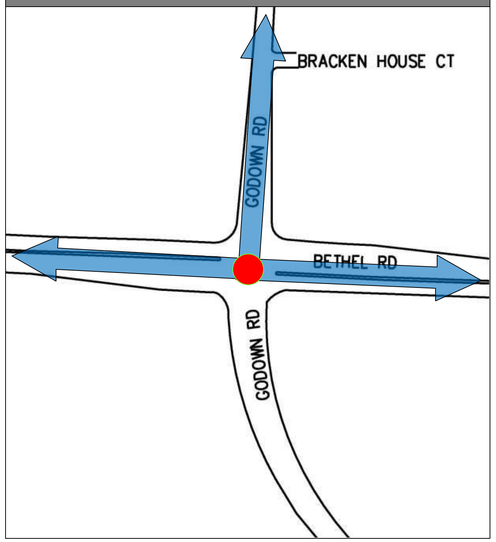
ORANGE TUBE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND

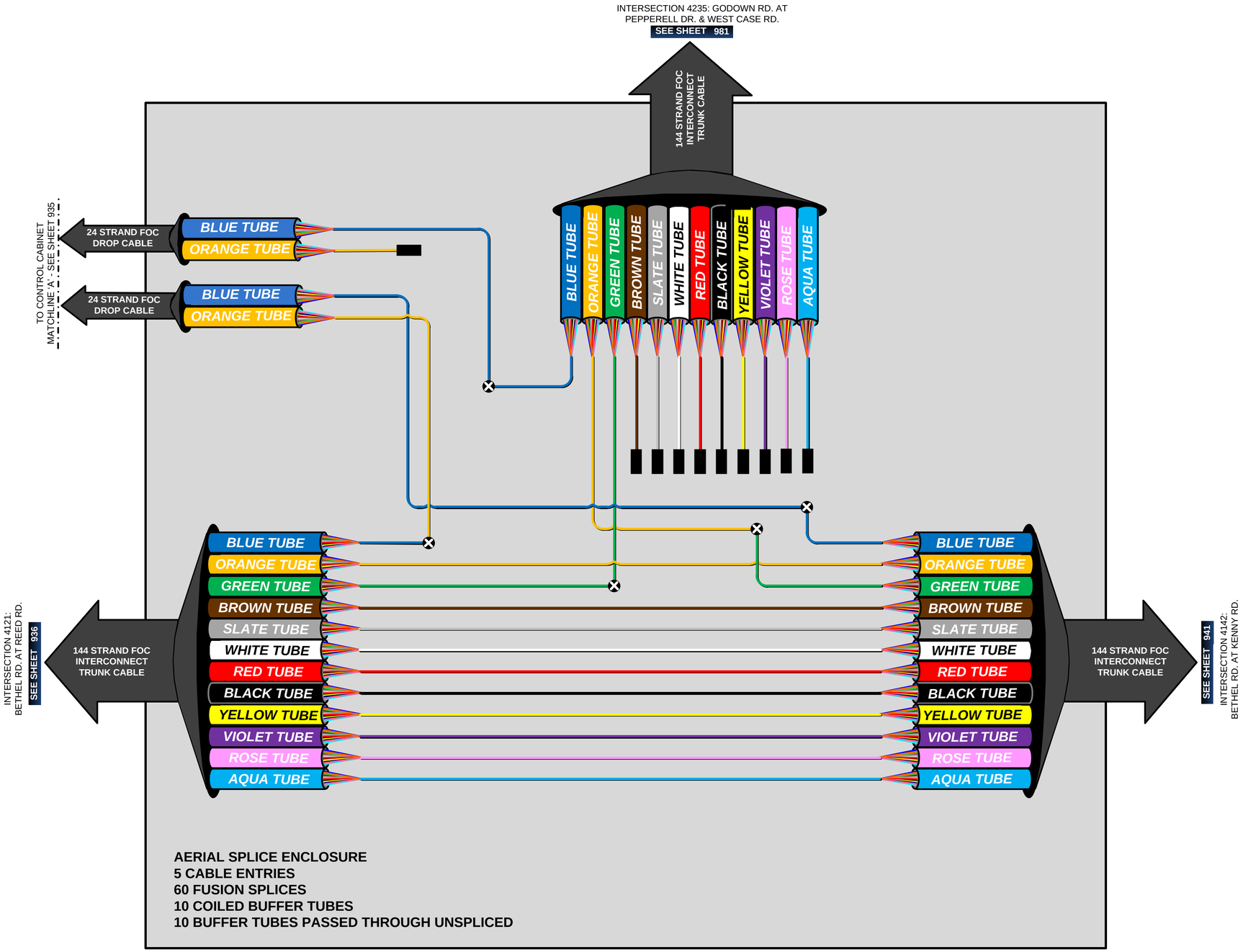


INTERSECTION 4120
REFER TO SHEET 276 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4120: BETHEL RD. AT GODOWN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

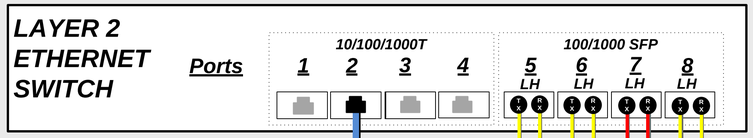
INTERSECTION 4120: BETHEL RD. AT GODOWN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

935A
1107

INTERSECTION 4120

TRAFFIC SIGNAL CABINET ASSEMBLY



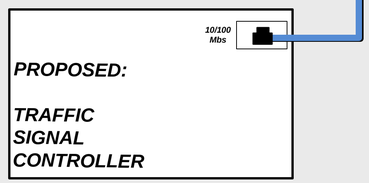
ETHERNET SWITCH PORT DESTINATION

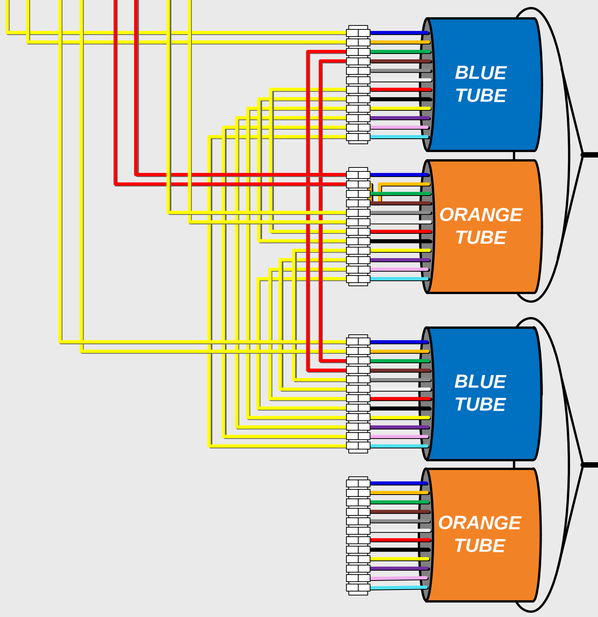
PORT 5: INTERSECTION 4142: BETHEL RD. AT KENNY RD.
SEE SHEET 941

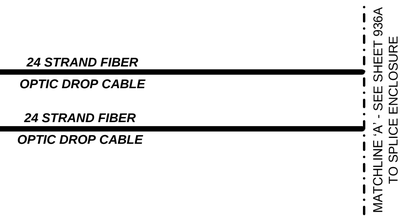
PORT 6: INTERSECTION 4164: BETHEL RD. AT DIERKER RD.
SEE SHEET 945

PORT 7: INTERSECTION 4167: FRANCISCO RD. AT REED RD.
SEE SHEET 948

PORT 8: EXISTING COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.
SEE SHEET 1104





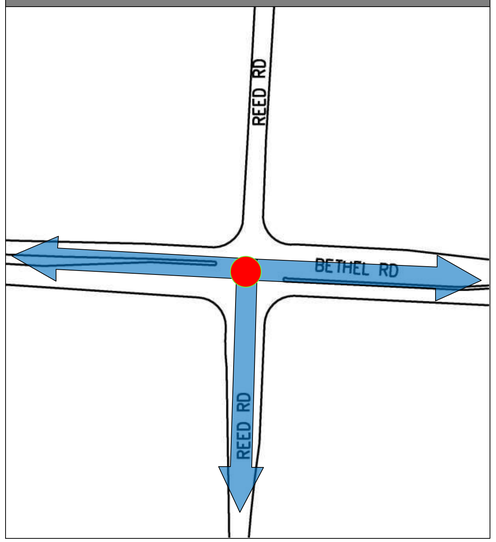


PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND

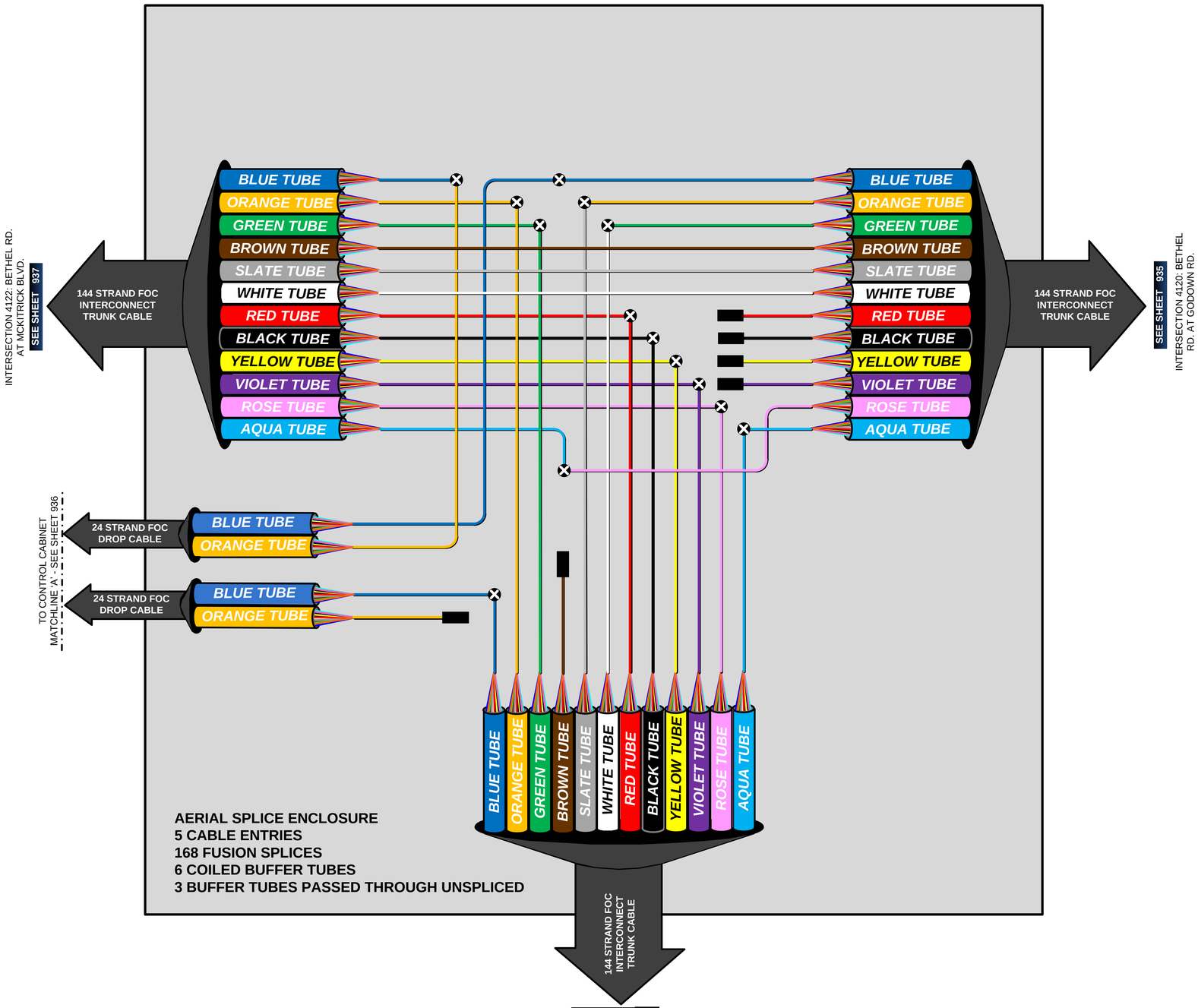


INTERSECTION 4121
REFER TO SHEET 277 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4121: BETHEL RD. AT REED RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

INTERSECTION 4121: BETHEL RD. AT REED RD.
COMMUNICATIONS DIAGRAM

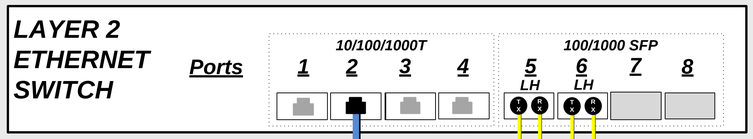
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

936A
1107

INTERSECTION 4121

REFER TO SHEET 277 FOR CONSTRUCTION PLAN DETAILS

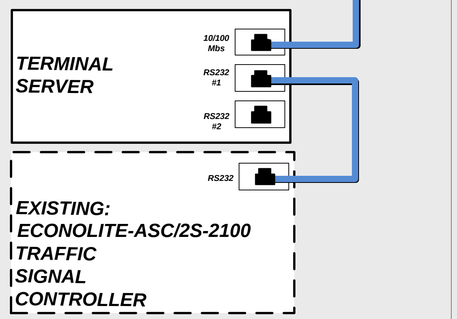
TRAFFIC SIGNAL CABINET ASSEMBLY



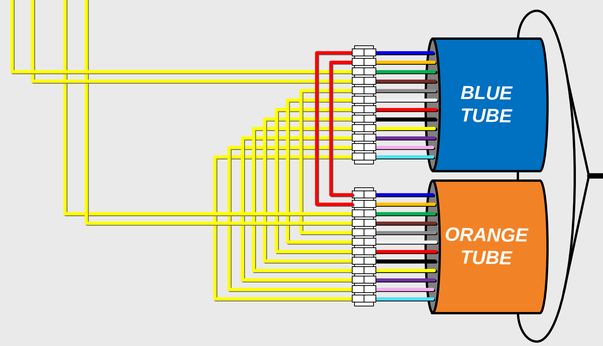
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4120: BETHEL RD. AT GODOWN RD.
SEE SHEET 935

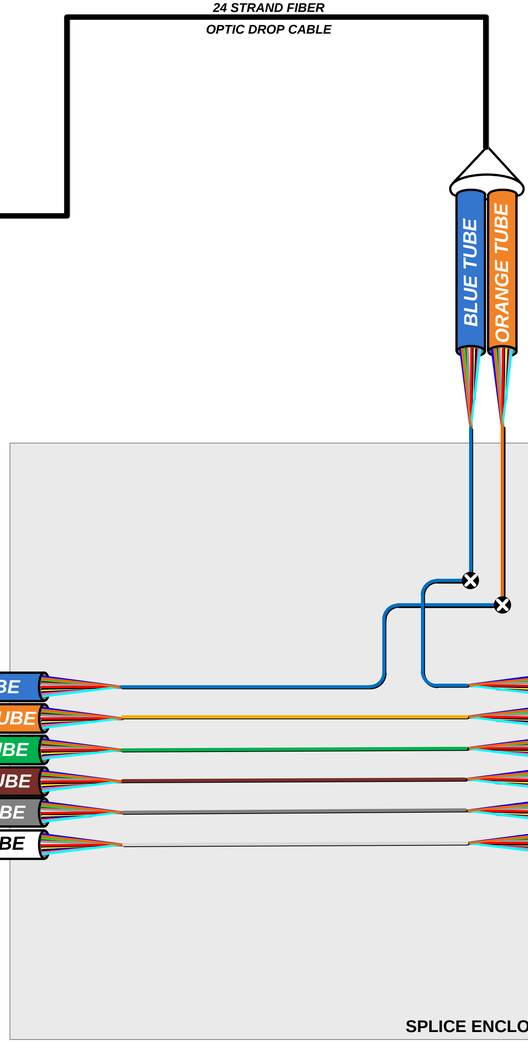
PORT 6: INTERSECTION 4187: BETHEL RD. AT PICKFORDE DR.
SEE SHEET 959



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



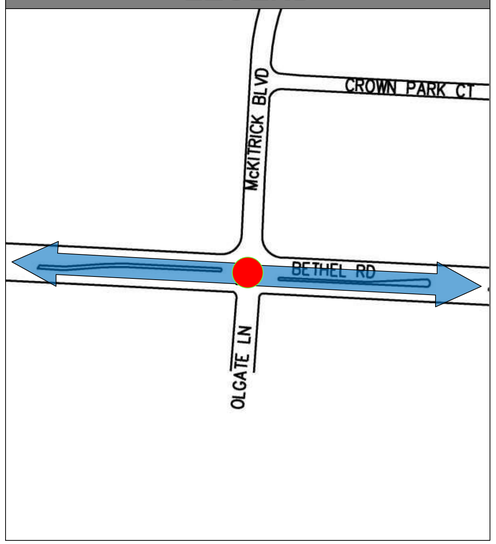
SEE SHEET 945
INTERSECTION 4164: BETHEL RD. AT DIERKER RD.

SEE SHEET 936
INTERSECTION 4121: BETHEL RD. AT REED RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4122
REFER TO SHEET 278 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4122: BETHEL RD. AT MCKITRICK BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

937
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4166: SAWMILL RD. AT WEST CASE RD. & ABBEY CHURCH RD.
SEE SHEET 947

PORT 6: INTERSECTION 4253: HENDERSON RD. AT SAWMILL RD.
SEE SHEET 985

PORT 7: INTERSECTION 4186: BETHEL RD. AT CARRIAGE PLACE SHOPPING CENTER
SEE SHEET 958

PORT 8: INTERSECTION 4187: BETHEL RD. AT PICKFORDE DR.
SEE SHEET 959

TERMINAL SERVER
10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING:
ECONOLITE-ASC/2S-2100
TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX
VIDEO/PTZ IP DATA
CCTV/HEATER POWER
ANALOG VIDEO
10/100 Mbs

COMPOSITE CCTV CABLE → PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE "A" - SEE SHEET 938A TO SPLICE ENCLOSURE

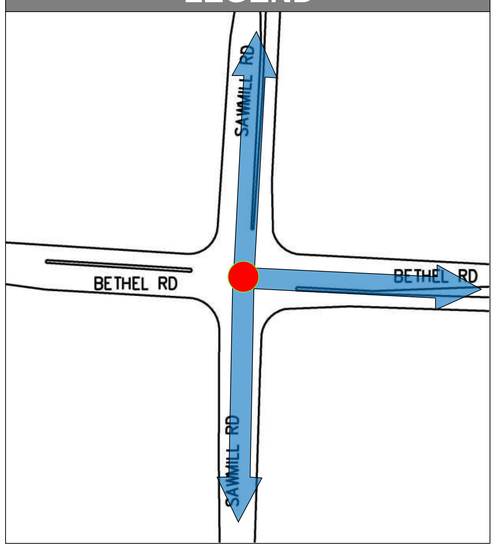
BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4125
REFER TO SHEET 424 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4125: BETHEL RD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 4185: RESLER DR.
AT SAWMILL RD.

SEE SHEET 957

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE A - SEE SHEET 938

24 STRAND FOC
DROP CABLE
BLUE TUBE
ORANGE TUBE

24 STRAND FOC
DROP CABLE
BLUE TUBE
ORANGE TUBE

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 958

INTERSECTION 4186: BETHEL
RD. AT CARRIAGE PLACE
SHOPPING CENTER

AERIAL SPLICE ENCLOSURE
5 CABLE ENTRIES
168 FUSION SPLICES
12 COILED BUFFER TUBES

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 982

INTERSECTION 4238: GIANT
EAGLE AT SAWMILL RD.

PID NUMBER 13034
2762 DR. E

INTERSECTION 4125: BETHEL RD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

938A
1107

INTERSECTION 4125

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4170: FEDERATED BLVD. AND VILLAGE PKWY. AT SAWMILL RD.
SEE SHEET 950

PORT 6: INTERSECTION 4171: MEIJER AT SAWMILL RD.
SEE SHEET 951

PORT 7: INTERSECTION 4190: DUBLIN GRANVILLE RD. AT MARTIN RD.
SEE SHEET 961

PORT 8: INTERSECTION 4218: DUBLIN GRANVILLE RD. AT SAWMILL PLACE BLVD.
SEE SHEET 974

TERMINAL SERVER
- 10/100 Mbs
- RS232 #1
- RS232 #2
- RS232

EXISTING:
ECONOLITE-ASC/2S-2100
TRAFFIC SIGNAL CONTROLLER

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

CCTV FIELD BOX
- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

COMPOSITE CCTV CABLE → PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

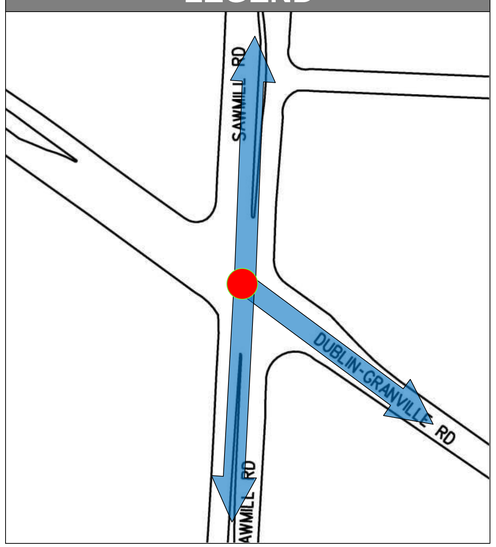
MATCHLINE 'A' - SEE SHEET 939A
TO SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4126
REFER TO SHEET 443 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4126: DUBLIN GRANVILLE RD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 4169: BANKER DR. &
SAWMILL PLACE BLVD. AT SAWMILL RD.

SEE SHEET 949

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE A - SEE SHEET 939

24 STRAND FOC
DROP CABLE
BLUE TUBE
ORANGE TUBE

24 STRAND FOC
DROP CABLE
BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 961

INTERSECTION 4190: DUBLIN
GRANVILLE RD. AT MARTIN RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

AERIAL SPLICE ENCLOSURE
5 CABLE ENTRIES
84 FUSION SPLICES
8 COILED BUFFER TUBES
9 BUFFER TUBES PASSED THROUGH UNSPLICED

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 946

INTERSECTION 4165: MARTIN
RD. AT SAWMILL RD.

PID NUMBER 13034
2762 DR. E

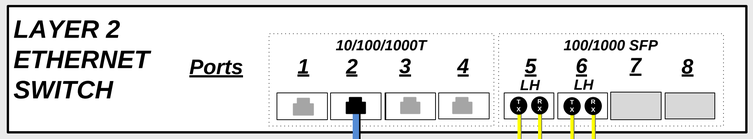
INTERSECTION 4126: DUBLIN GRANVILLE RD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

939A
1107

INTERSECTION 4126

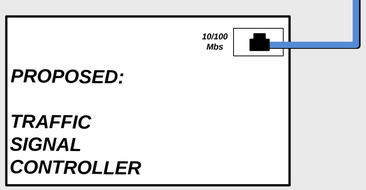
TRAFFIC SIGNAL CABINET ASSEMBLY



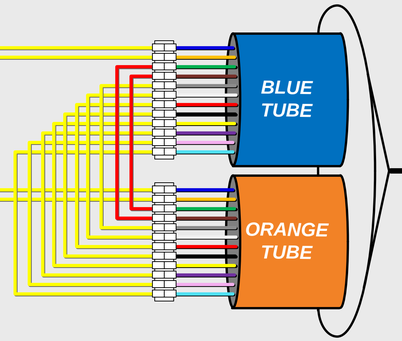
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE 315008.6-2: SR-315 AT BETHEL RD.
SEE SHEET 1107

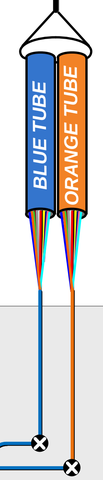
PORT 6: INTERSECTION 4142: BETHEL RD. AT KENNY RD.
SEE SHEET 941

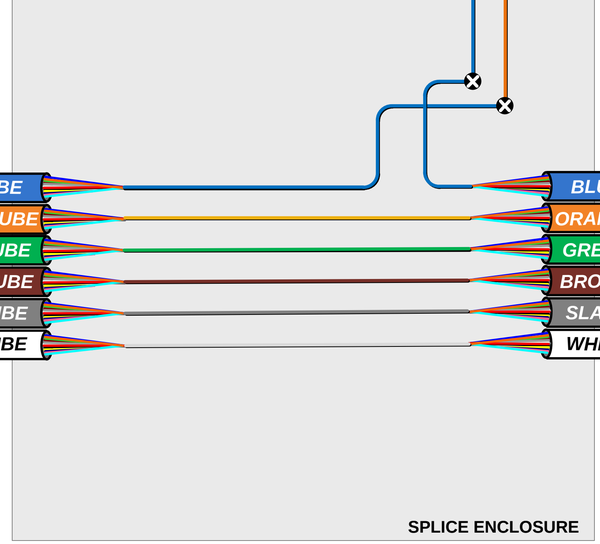


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE





SPLICE ENCLOSURE

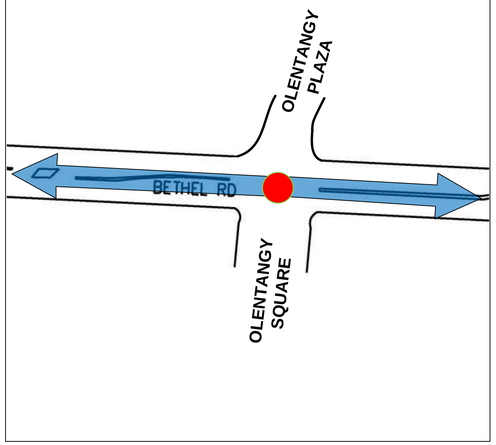
SEE SHEET 962
INTERSECTION 4192: BETHEL RD. AT JASONWAY AVE.

SEE SHEET 934
INTERSECTION 4118: BETHEL RD. AT OLENTANGY RIVER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4141
REFER TO SHEET 279 FOR CONSTRUCTION PLAN DETAILS

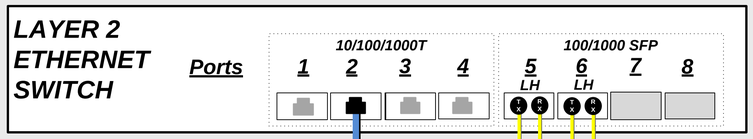
PID NUMBER 13034
2762 DR. E

INTERSECTION 4141: BETHEL RD. AT OLENTANGY PLAZA & OLENTANGY SQ.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

940
1107

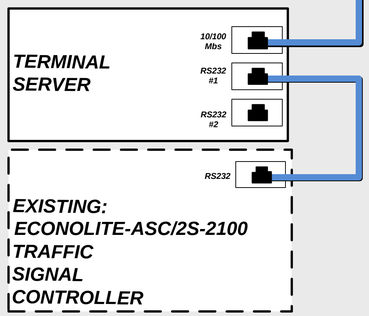
TRAFFIC SIGNAL CABINET ASSEMBLY



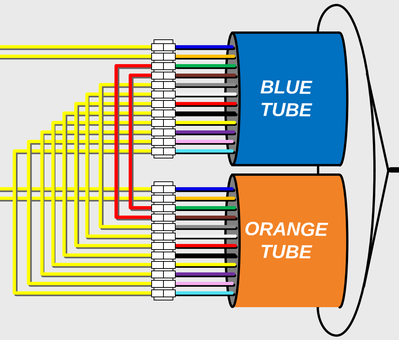
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4141: BETHEL RD. AT OLENTANGY PLAZA & OLENTANGY SQ.
SEE SHEET 940

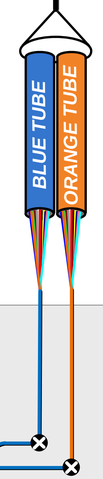
PORT 6: INTERSECTION 4121: BETHEL RD. AT REED RD.
SEE SHEET 936



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE





SPLICE ENCLOSURE

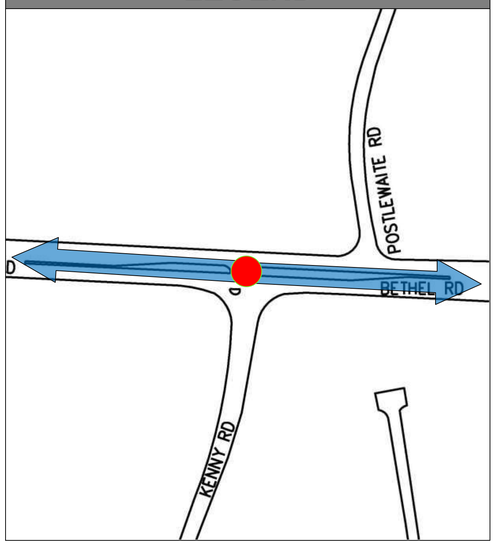
SEE SHEET 935
INTERSECTION 4120: BETHEL RD. AT GODOWN RD.

SEE SHEET 962
INTERSECTION 4192: BETHEL RD. AT JASONWAY AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4142

REFER TO SHEET 280 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4142: BETHEL RD. AT KENNY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 LH 8

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 270019.8: I-270 AT SAWMILL RD.
SEE SHEET 1090

PORT 6: INTERSECTION 4169: BANKER DR. & SAWMILL PLACE BLVD. AT SAWMILL RD.
SEE SHEET 949

PORT 7: INTERSECTION 4220: CAINE RD. AT SNOUFFER RD.
SEE SHEET 975

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

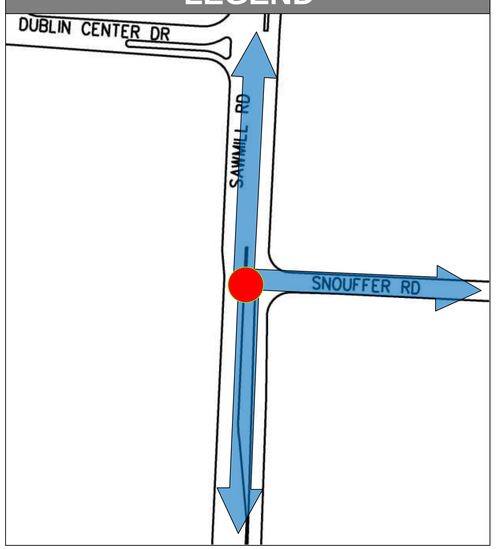
MATCHLINE 'A' - SEE SHEET 942A
TO SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX: GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4144

REFER TO SHEET 444 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4144: SAWMILL RD. AT SNOUFFER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

EXISTING COMMUNICATION NODE
270019.8: I-270 AT SAWMILL RD.

SEE SHEET 1091

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE A - SEE SHEET 942

24 STRAND FOC
DROP CABLE
BLUE TUBE
ORANGE TUBE

24 STRAND FOC
DROP CABLE
BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 975
INTERSECTION 4220: CAINE
RD. AT SNOUFFER RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

AERIAL SPLICE ENCLOSURE
5 CABLE ENTRIES
60 FUSION SPLICES
10 COILED BUFFER TUBES
10 BUFFER TUBES PASSED THROUGH UNSPLICED

144 STRAND FOC
INTERCONNECT
TRUNK CABLE

SEE SHEET 950
INTERSECTION 4170: FEDERATED BLVD.
AND VILLAGE PKWY. AT SAWMILL RD.

PID NUMBER 13034
2762 DR. E

INTERSECTION 4144: SAWMILL RD. AT SNOUFFER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION 4144

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4221: DUBLIN RD. AT FRANTZ RD.
SEE SHEET 976

PORT 6: INTERSECTION 4211: FRANTZ RD AT SHANNON HEIGHTS BLVD.
SEE SHEET 970

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING:

ECONOLITE-ASC/2S-2100

TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

INTERSECTION 4221: DUBLIN RD. AT FRANTZ RD.

SEE SHEET 976

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

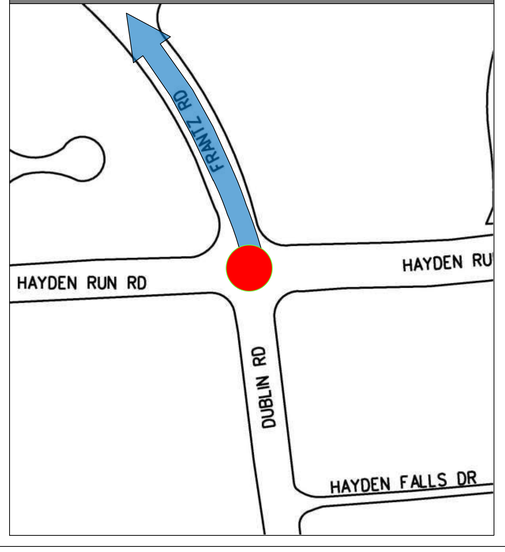
BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4145

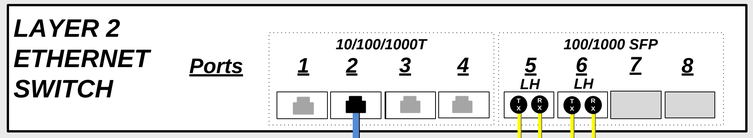
REFER TO SHEET 340 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4145: DUBLIN RD. & FRANTZ RD. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

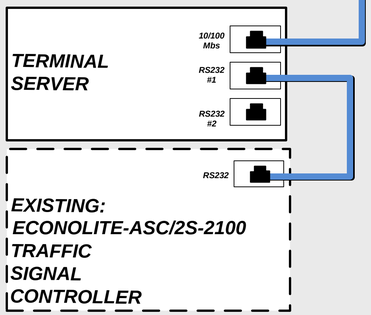
TRAFFIC SIGNAL CABINET ASSEMBLY



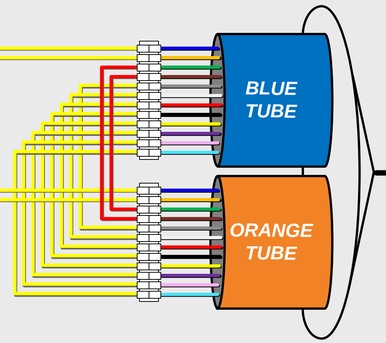
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4171: MEIJER AT SAWMILL RD.
SEE SHEET 951

PORT 6: INTERSECTION 4185: RESLER DR. AT SAWMILL RD.
SEE SHEET 957



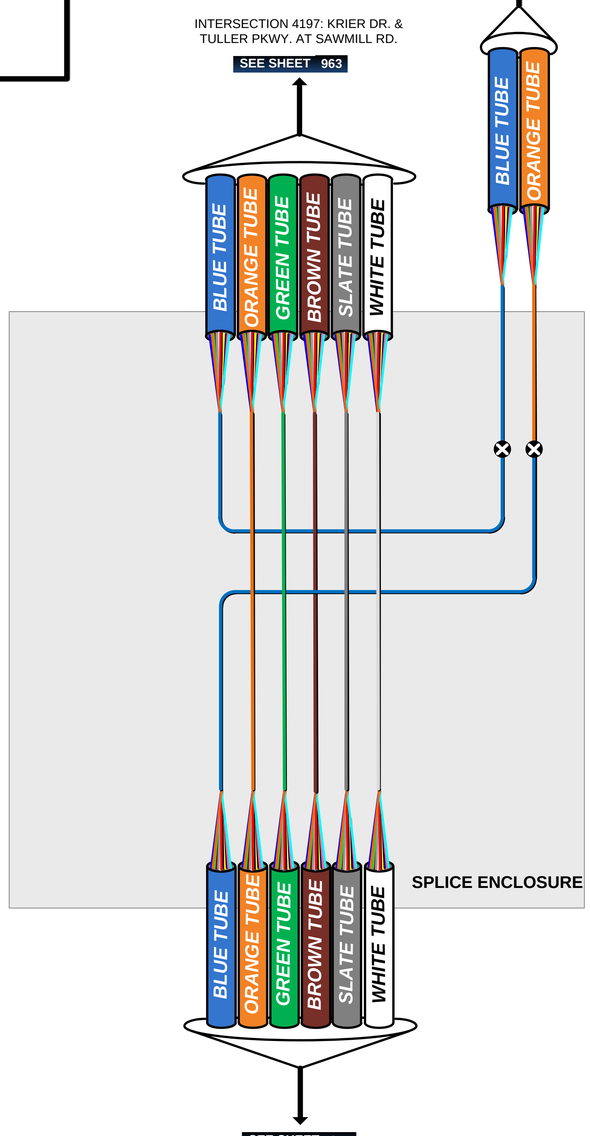
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4197: KRIER DR. & TULLER PKWY. AT SAWMILL RD.

SEE SHEET 963



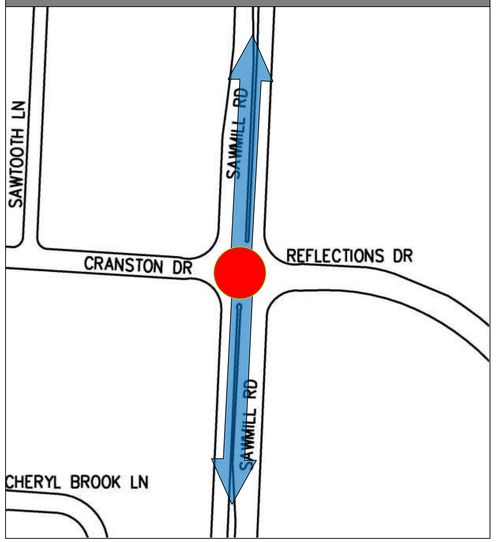
SEE SHEET 947

INTERSECTION 4166: SAWMILL RD. AT WEST CASE RD. & ABBEY CHURCH RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4155

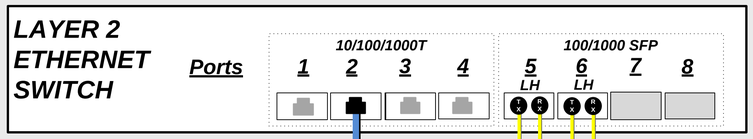
REFER TO SHEET 445 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4155: CRANSTON DR. & REFLECTIONS DR. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

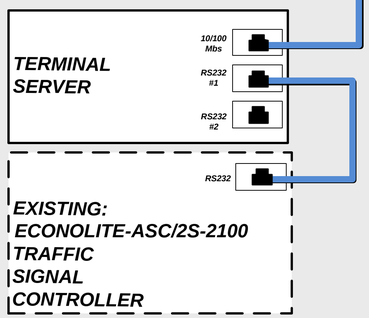
TRAFFIC SIGNAL CABINET ASSEMBLY



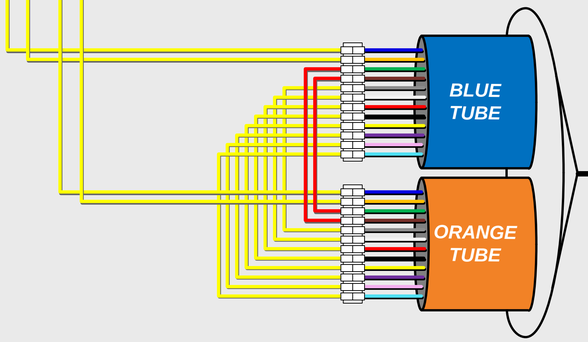
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4121: BETHEL RD. AT REED RD.
SEE SHEET 936

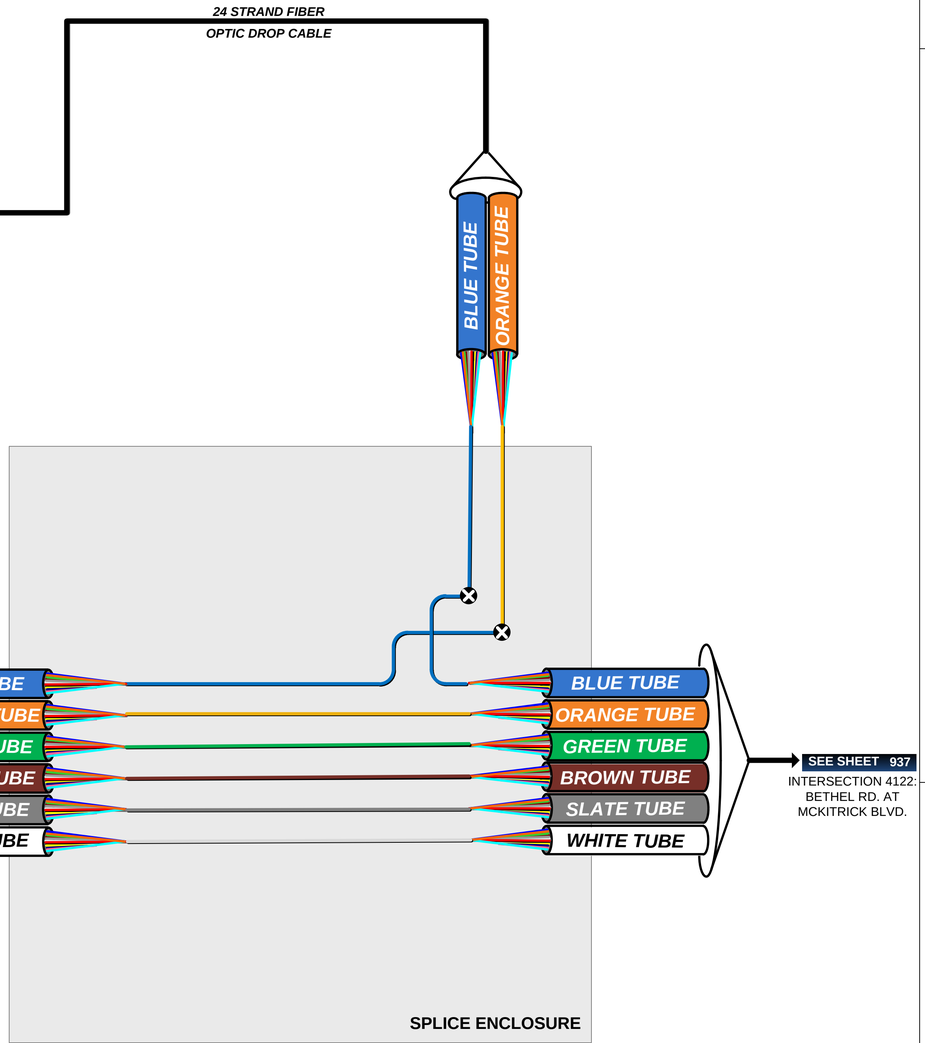
PORT 6: INTERSECTION 4186: BETHEL RD. AT CARRIAGE PLACE SHOPPING CENTER
SEE SHEET 958



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



SEE SHEET 959
INTERSECTION 4187: BETHEL RD. AT PICKFORDE DR.

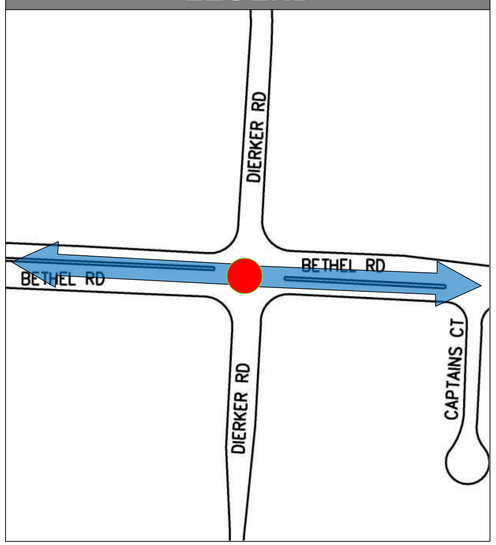
SEE SHEET 937
INTERSECTION 4122: BETHEL RD. AT MCKITRICK BLVD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

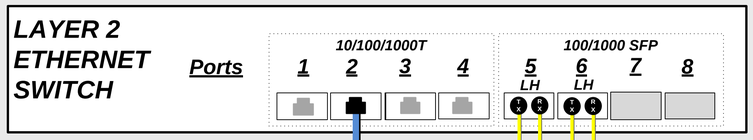
INTERSECTION 4164
REFER TO SHEET 282 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4164: BETHEL RD. AT DIERKER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

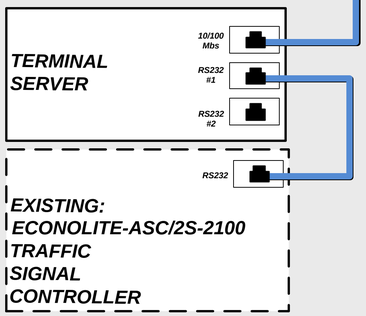
TRAFFIC SIGNAL CABINET ASSEMBLY

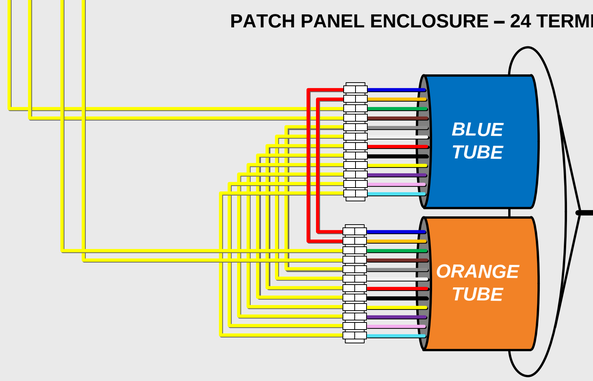


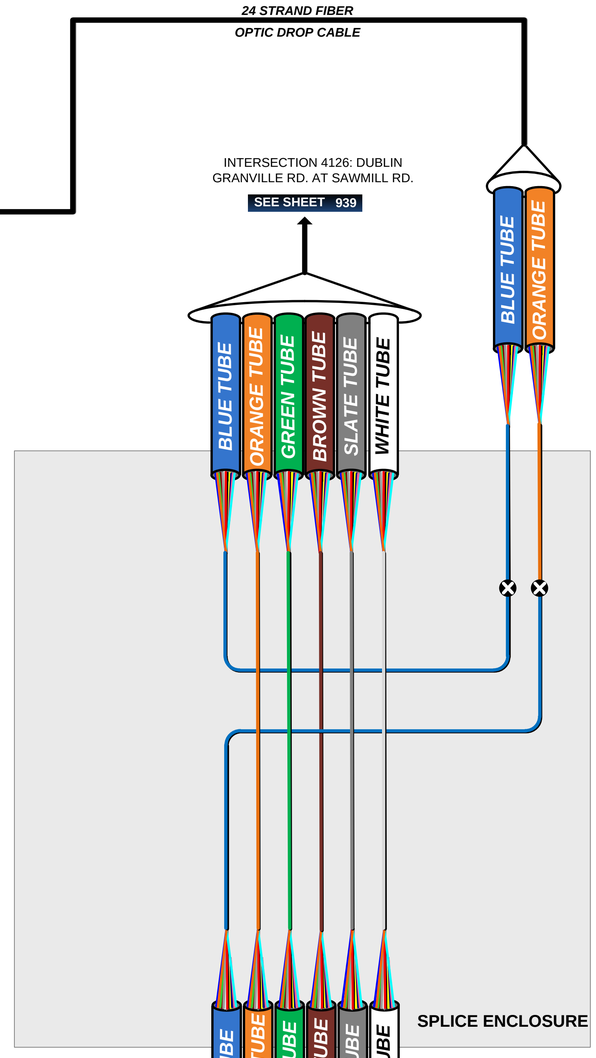
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4169: BANKER DR. & SAWMILL PLACE BLVD. AT SAWMILL RD.
SEE SHEET 949

PORT 6: INTERSECTION 4197: KRIER DR. & TULLER PKWY. AT SAWMILL RD.
SEE SHEET 963



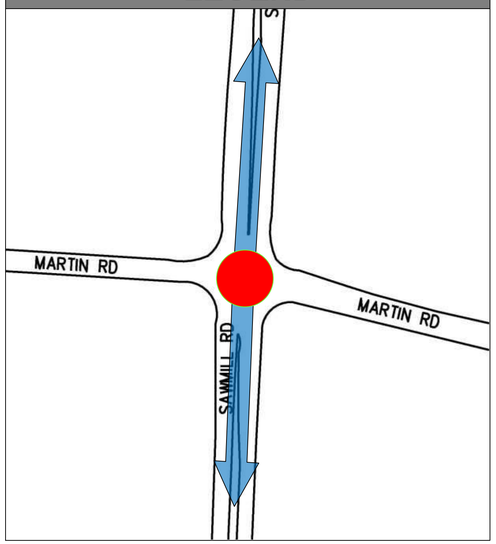




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4165

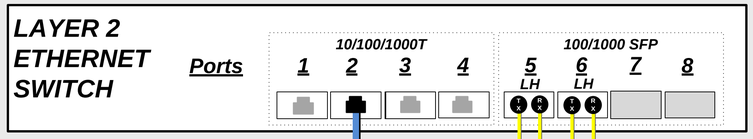
REFER TO SHEET 446 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4165: MARTIN RD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

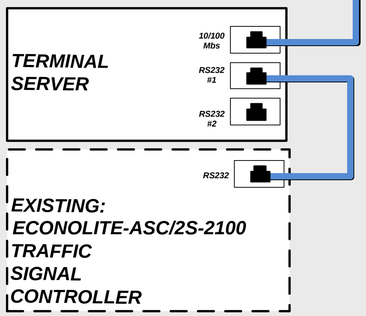
TRAFFIC SIGNAL CABINET ASSEMBLY



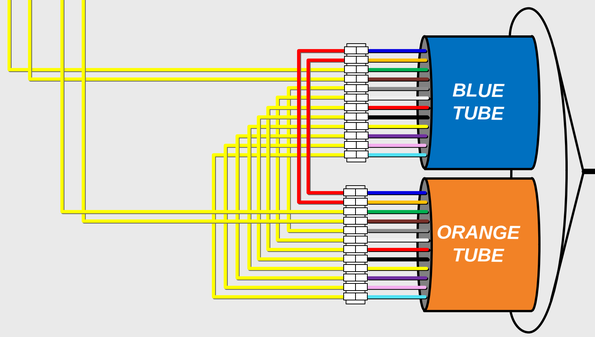
ETHERNET SWITCH PORT DESTINATION

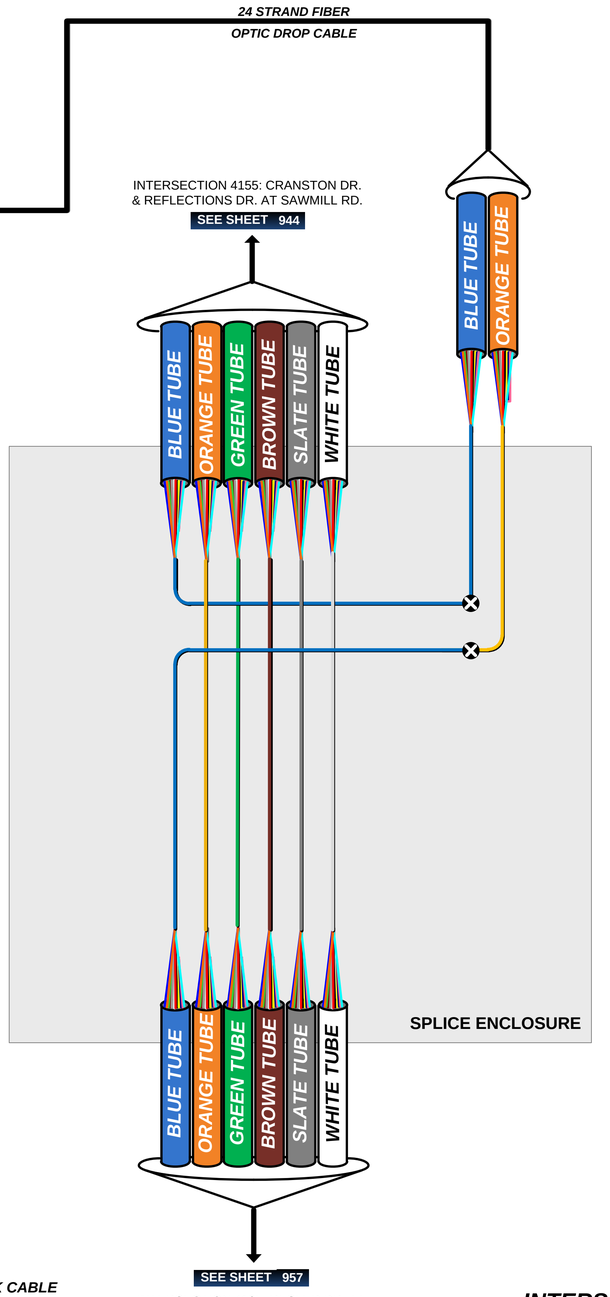
PORT 5: INTERSECTION 4197: KRIER DR. & TULLER PKWY. AT SAWMILL RD.
SEE SHEET 963

PORT 6: INTERSECTION 4125: BETHEL RD. AT SAWMILL RD.
SEE SHEET 938



PATCH PANEL ENCLOSURE – 24 TERMINATION

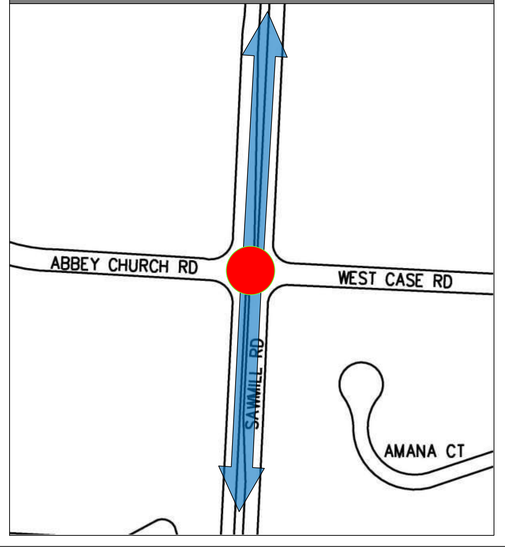




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4185: RESLER DR. AT SAWMILL RD.

INTERSECTION 4166

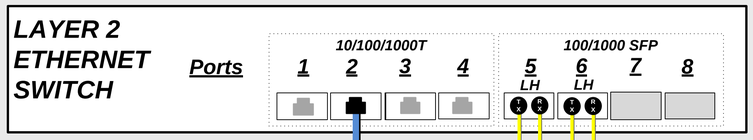
REFER TO SHEET 425 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4166: SAWMILL RD. AT WEST CASE RD. & ABBEY CHURCH RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

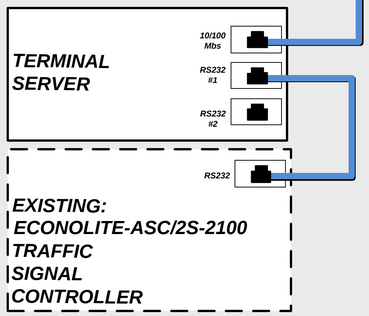
TRAFFIC SIGNAL CABINET ASSEMBLY



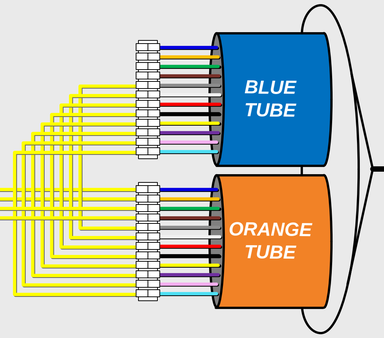
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4113: HENDERSON RD. AT REED RD.
SEE SHEET 929

PORT 6: INTERSECTION 4113: HENDERSON RD. AT REED RD.
SEE SHEET 929



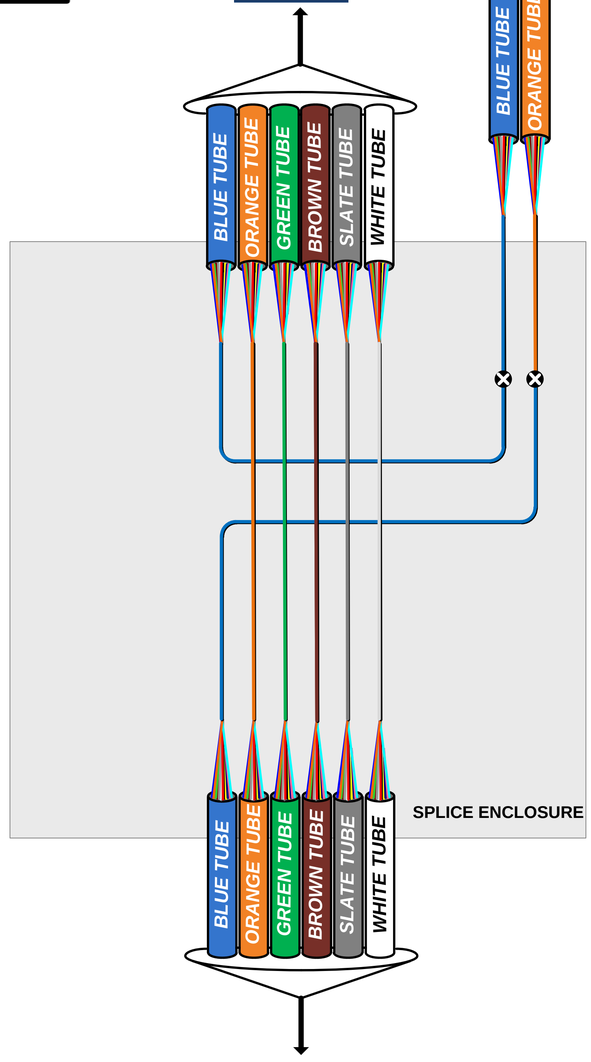
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4121: BETHEL RD. AT REED RD.

SEE SHEET 936



SEE SHEET 929

INTERSECTION 4113: HENDERSON RD. AT REED RD.

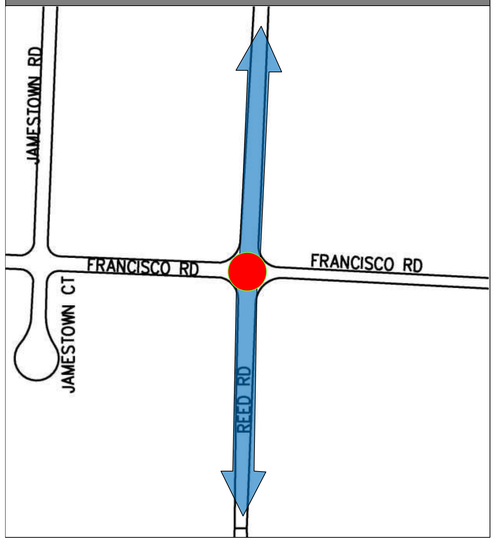
144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4167

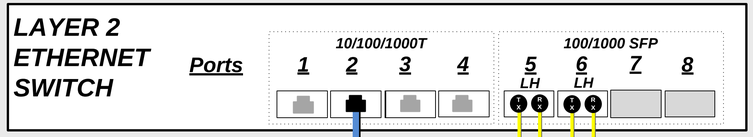
REFER TO SHEET 286 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4167: FRANCISCO RD. AT REED RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

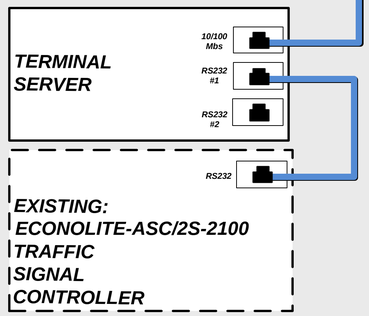
TRAFFIC SIGNAL CABINET ASSEMBLY



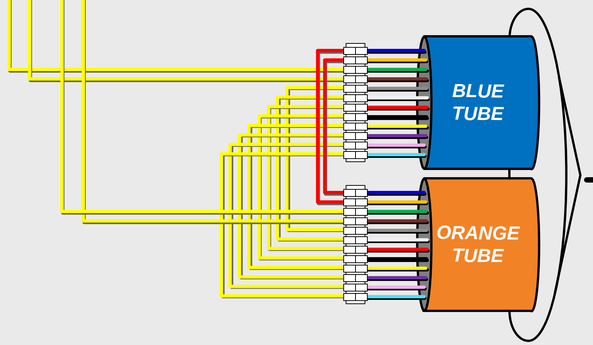
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4144: SAWMILL RD. AT SNOUFFER RD.
SEE SHEET 942

PORT 6: INTERSECTION 4165: MARTIN RD. AT SAWMILL RD.
SEE SHEET 946

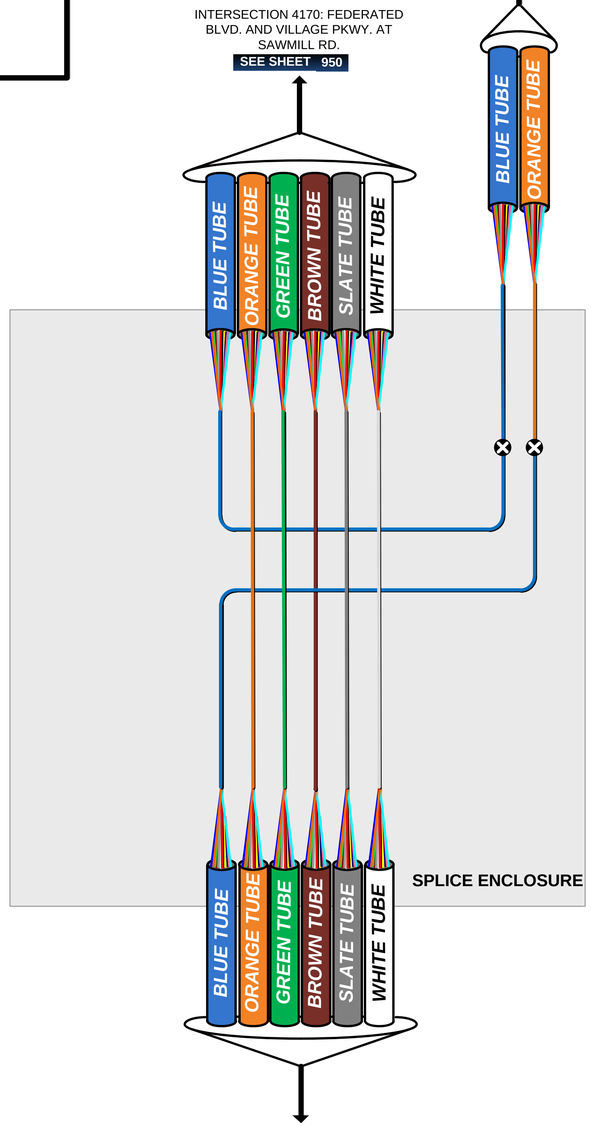


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4170: FEDERATED BLVD. AND VILLAGE PKWY. AT SAWMILL RD.
SEE SHEET 950



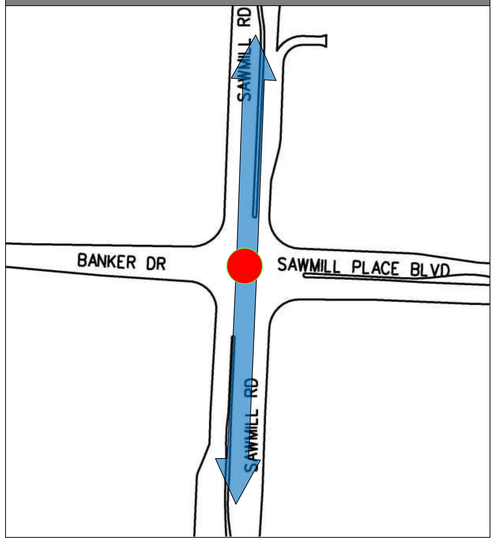
SEE SHEET 939

INTERSECTION 4126: DUBLIN GRANVILLE RD. AT SAWMILL RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4169

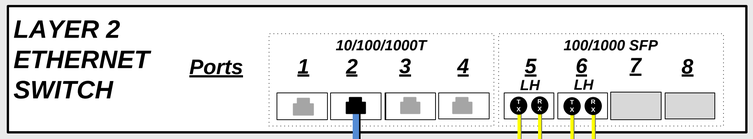
REFER TO SHEET 448 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4169: BANKER DR. & SAWMILL PLACE BLVD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

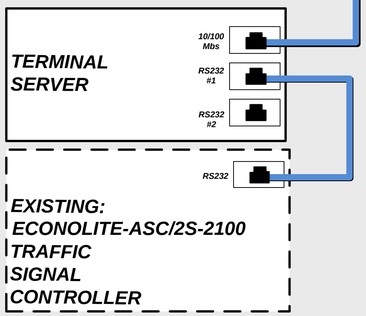
TRAFFIC SIGNAL CABINET ASSEMBLY

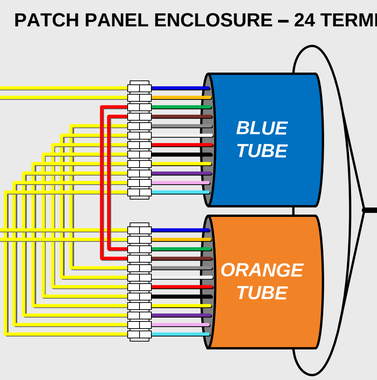


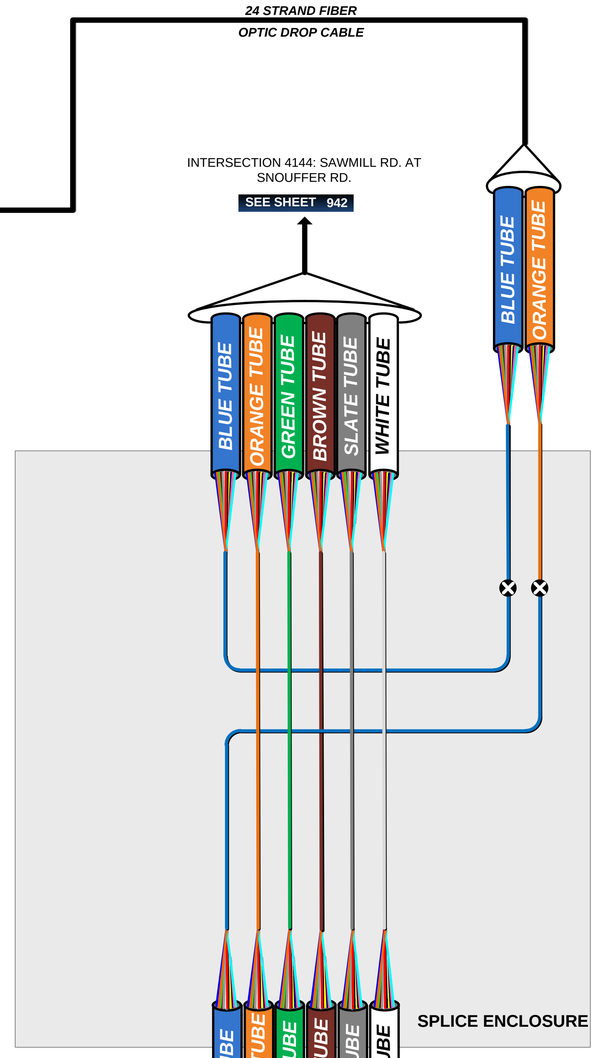
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 270019.8: I-270 AT SAWMILL RD.
SEE SHEET 1090

PORT 6: INTERSECTION 4126: DUBLIN GRANVILLE RD. AT SAWMILL RD.
SEE SHEET 939



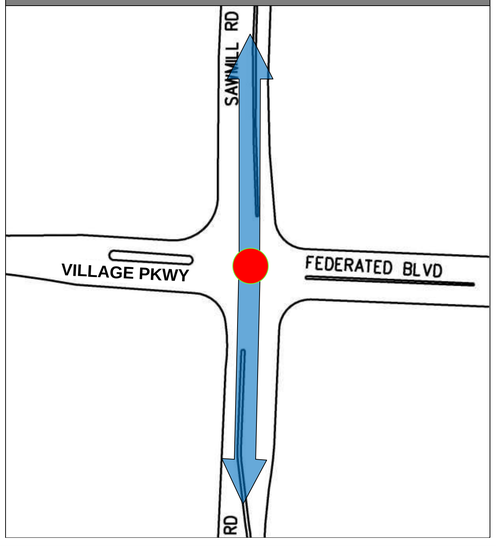




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 949

INTERSECTION 4169: BANKER DR. & SAWMILL PLACE BLVD. AT SAWMILL RD.

INTERSECTION 4170

REFER TO SHEET 449 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

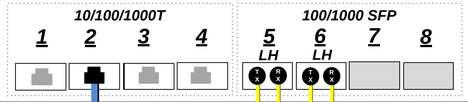
INTERSECTION 4170: FEDERATED BLVD. AND VILLAGE PKWY. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

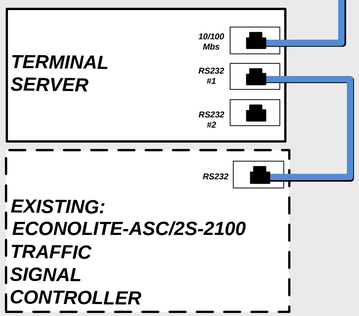
Ports



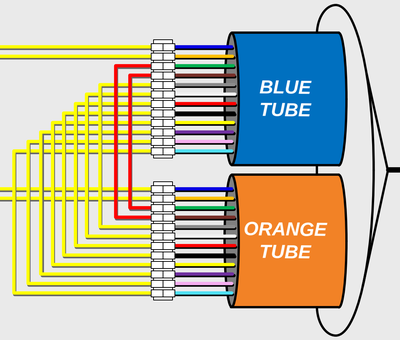
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4126: DUBLIN GRANVILLE RD. AT SAWMILL RD.
SEE SHEET 939

PORT 6: INTERSECTION 4155: CRANSTON DR. & REFLECTIONS DR. AT SAWMILL RD.
SEE SHEET 944

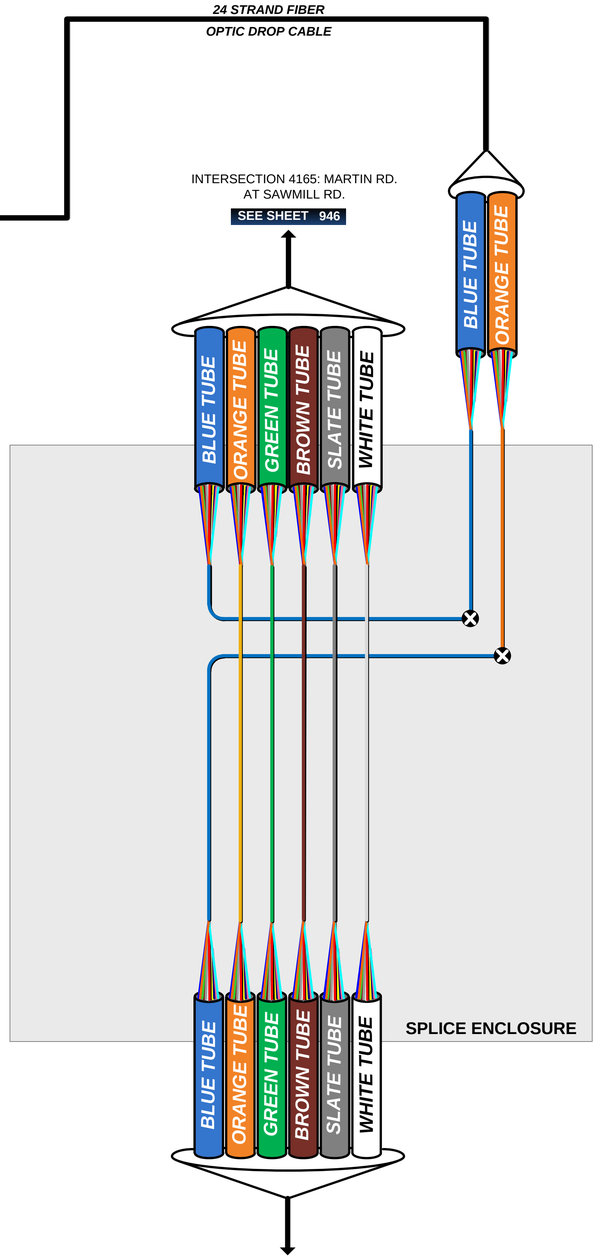


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4165: MARTIN RD. AT SAWMILL RD.
SEE SHEET 946



SEE SHEET 963

INTERSECTION 4197: KRIER DR. & TULLER PKWY. AT SAWMILL RD.

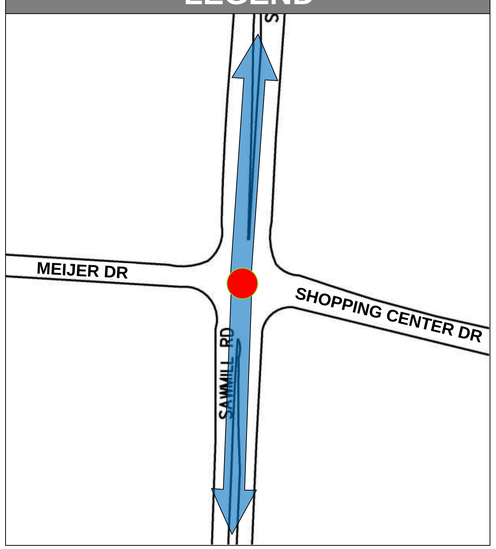
144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4171

REFER TO SHEET 450 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4171: MEIJER AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4178: HARD RD. AT SAWMILL RD.
SEE SHEET 954

PORT 6: EXISTING COMMUNICATION NODE 270019.8: I-270 AT SAWMILL RD.
SEE SHEET 1090

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4177: BRIGHT RD. & SAWBURY BLVD. AT SAWMILL RD.

SEE SHEET 953

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

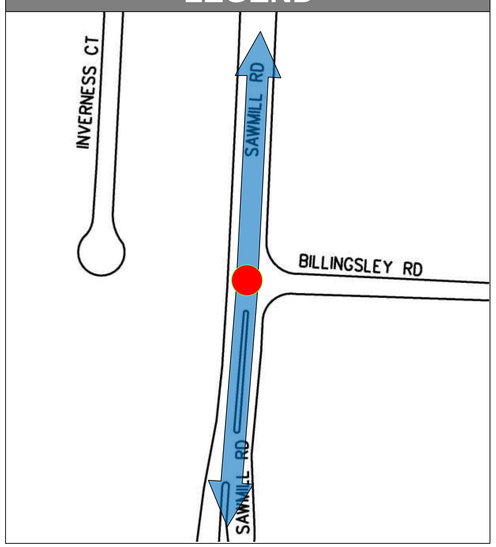
SPLICE ENCLOSURE

SEE SHEET 987

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4255: I-270 (SPUI) AT SAWMILL RD.

INTERSECTION 4176

REFER TO SHEET 432 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4176: BILLINGSLEY RD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4179: SAWMILL RD. AT SUMMER RD.
SEE SHEET 955

PORT 6: INTERSECTION 4255: I-270 (SPUI) AT SAWMILL RD.
SEE SHEET 987

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING:
ECONOLITE-ASC/2S-2100
TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4178: HARD RD. AT SAWMILL RD.
SEE SHEET 954

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

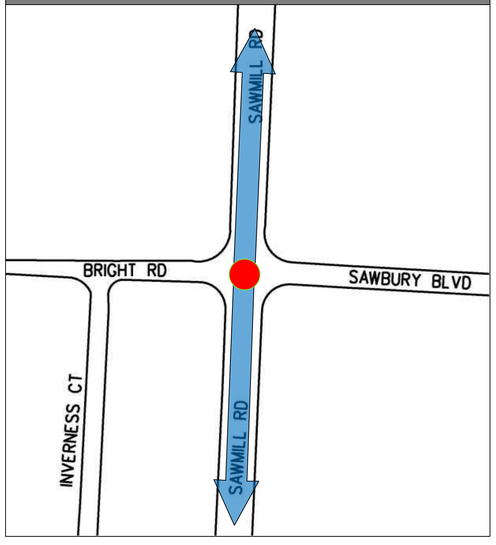
SEE SHEET 952

INTERSECTION 4176: BILLINGSLEY RD. AT SAWMILL RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4177

REFER TO SHEET 433 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4177: BRIGHT RD. & SAWBURY BLVD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2
- RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4180: EMERALD PKWY & SALTERGATE DR. AT SAWMILL RD.
SEE SHEET 956

PORT 6: INTERSECTION 4176: BILLINGSLEY RD. AT SAWMILL RD.
SEE SHEET 952

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4179: SAWMILL RD. AT SUMMER RD.
SEE SHEET 955

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

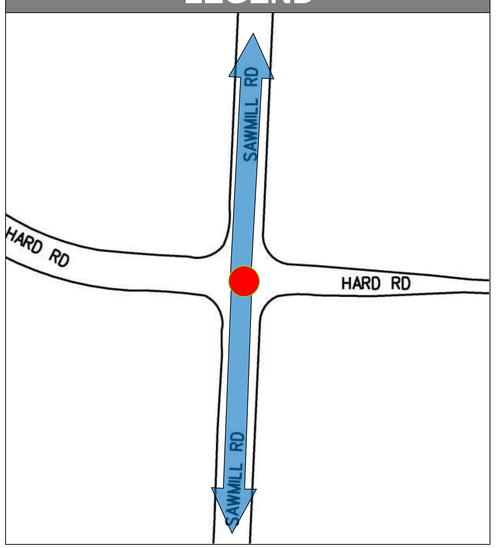
SEE SHEET 953

INTERSECTION 4177: BRIGHT RD. & SAWBURY BLVD. AT SAWMILL RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4178

REFER TO SHEET 434 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4178: HARD RD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4209: SAWMILL RD. AT SUMMIT VIEW RD. WEST
SEE SHEET 969

PORT 6: INTERSECTION 4177: BRIGHT RD. & SAWBURY BLVD. AT SAWMILL RD.
SEE SHEET 953

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4180: EMERALD PKWY & SALTERGATE DR. AT SAWMILL RD.
SEE SHEET 956

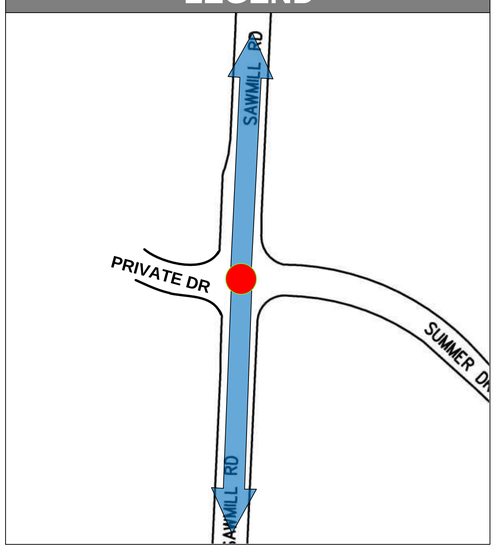
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 954

INTERSECTION 4178: HARD RD. AT SAWMILL RD.

INTERSECTION 4179

REFER TO SHEET 436 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

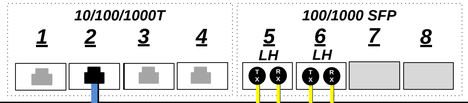
INTERSECTION 4179: SAWMILL RD. AT SUMMER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

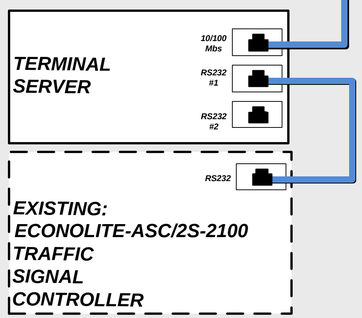
Ports



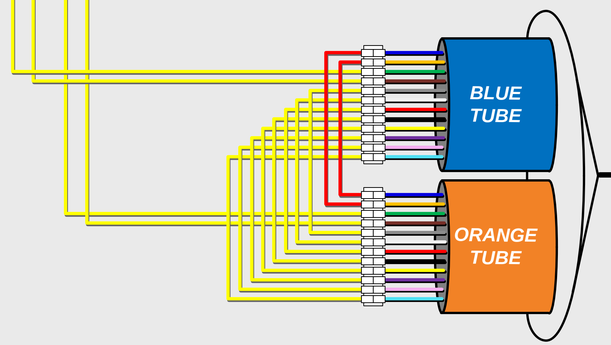
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4231: SAWMILL RD. AT SUMMIT VIEW RD. EAST
SEE SHEET 980

PORT 6: INTERSECTION 4178: HARD RD. AT SAWMILL RD.
SEE SHEET 954

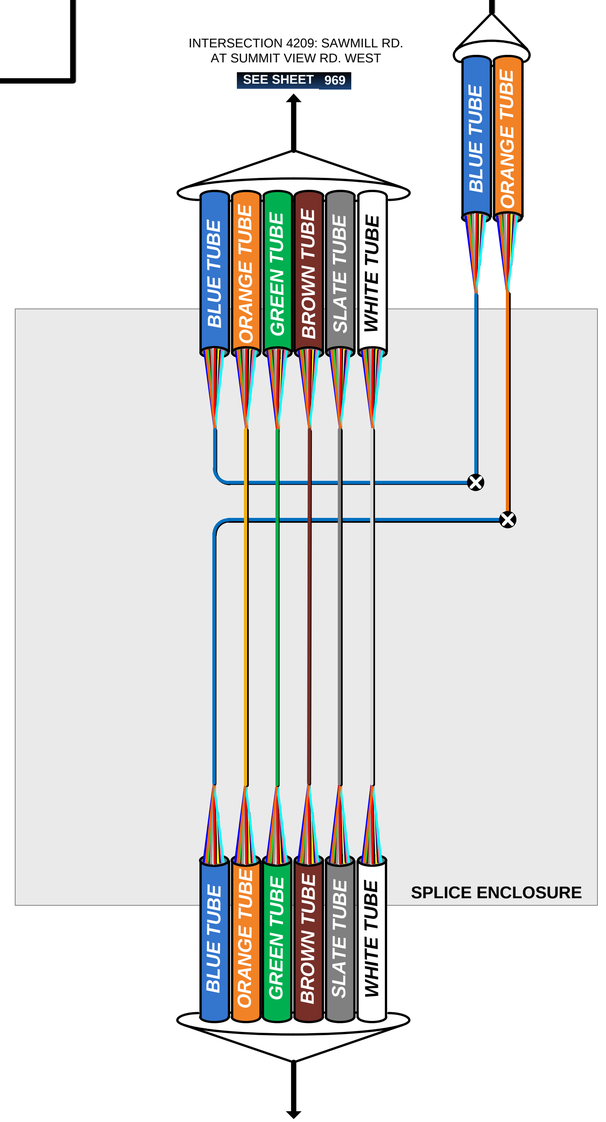


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION 4209: SAWMILL RD.
AT SUMMIT VIEW RD. WEST
SEE SHEET 969



SPLICE ENCLOSURE

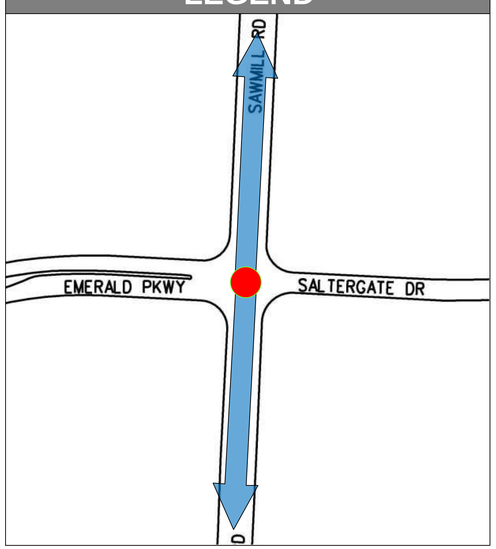
SEE SHEET 955

INTERSECTION 4179: SAWMILL RD. AT SUMMER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4180

REFER TO SHEET 437 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4180: EMERALD PKWY & SALTERGATE DR. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4155: CRANSTON DR. & REFLECTIONS DR. AT SAWMILL RD.
SEE SHEET 944

PORT 6: INTERSECTION 4238: GIANT EAGLE AT SAWMILL RD.
SEE SHEET 982

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING:
ECONOLITE-ASC/2S-2100
TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4166: SAWMILL RD. AT WEST CASE RD. & ABBEY CHURCH RD.

SEE SHEET 947

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

SEE SHEET 938

144-FIBER TRUNK CABLE

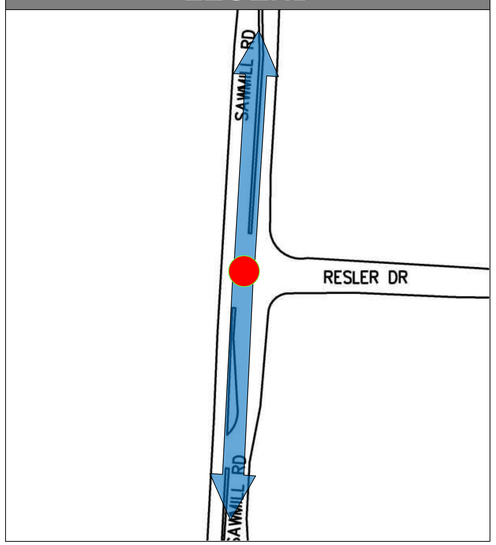
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4125: BETHEL RD. AT SAWMILL RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4185

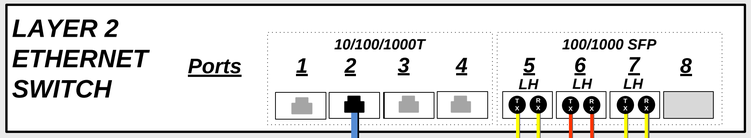
REFER TO SHEET 427 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4185: RESLER DR. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

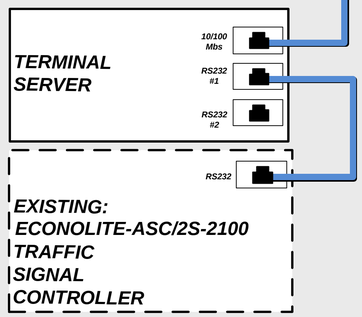


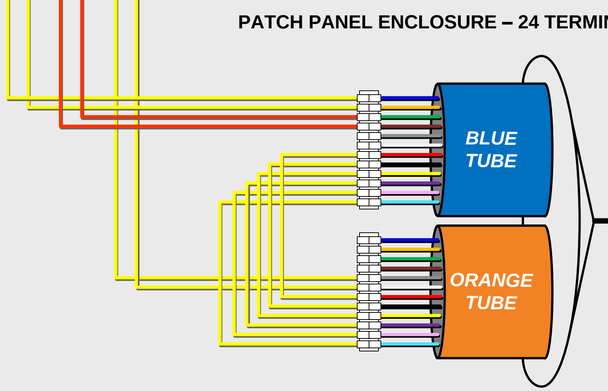
ETHERNET SWITCH PORT DESTINATION

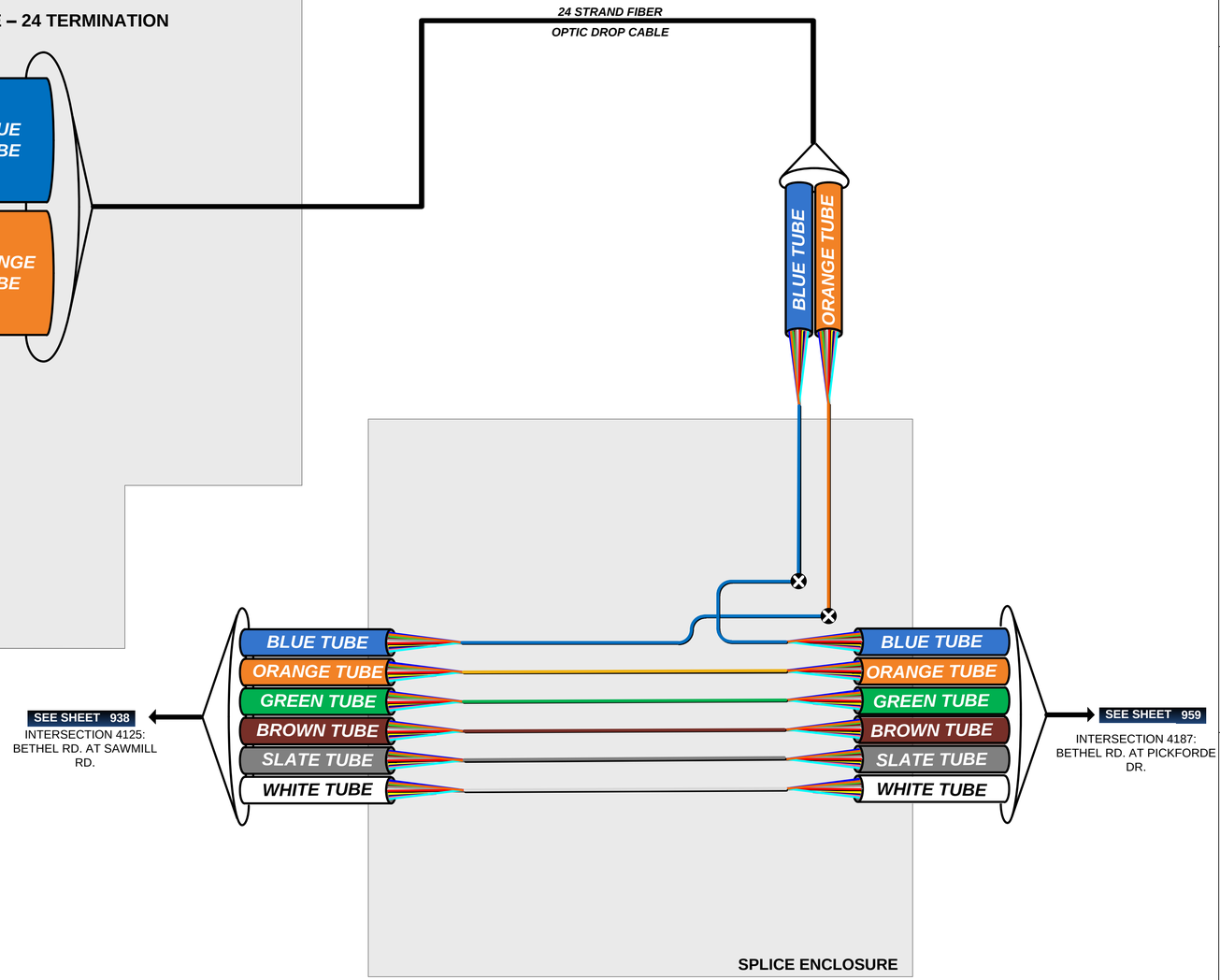
PORT 5: INTERSECTION 4164: BETHEL RD. AT DIERKER RD.
SEE SHEET 945

PORT 6: INTERSECTION 4187: BETHEL RD. AT PICKFORDE DR.
SEE SHEET 959

PORT 7: EXISTING COMMUNICATION NODE 270019.8: I-270 AT SAWMILL RD.
SEE SHEET 1090



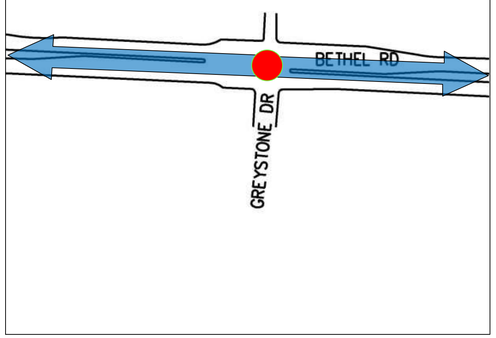




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4186

REFER TO SHEET 428 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

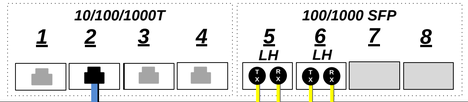
INTERSECTION 4186: BETHEL RD. AT CARRIAGE PLACE SHOPPING CENTER
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports



ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4122: BETHEL RD. AT MCKITRICK BLVD.
SEE SHEET 938

PORT 6: INTERSECTION 4125: BETHEL RD. AT SAWMILL RD.
SEE SHEET 938

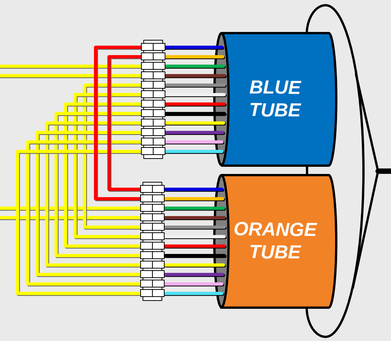
TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

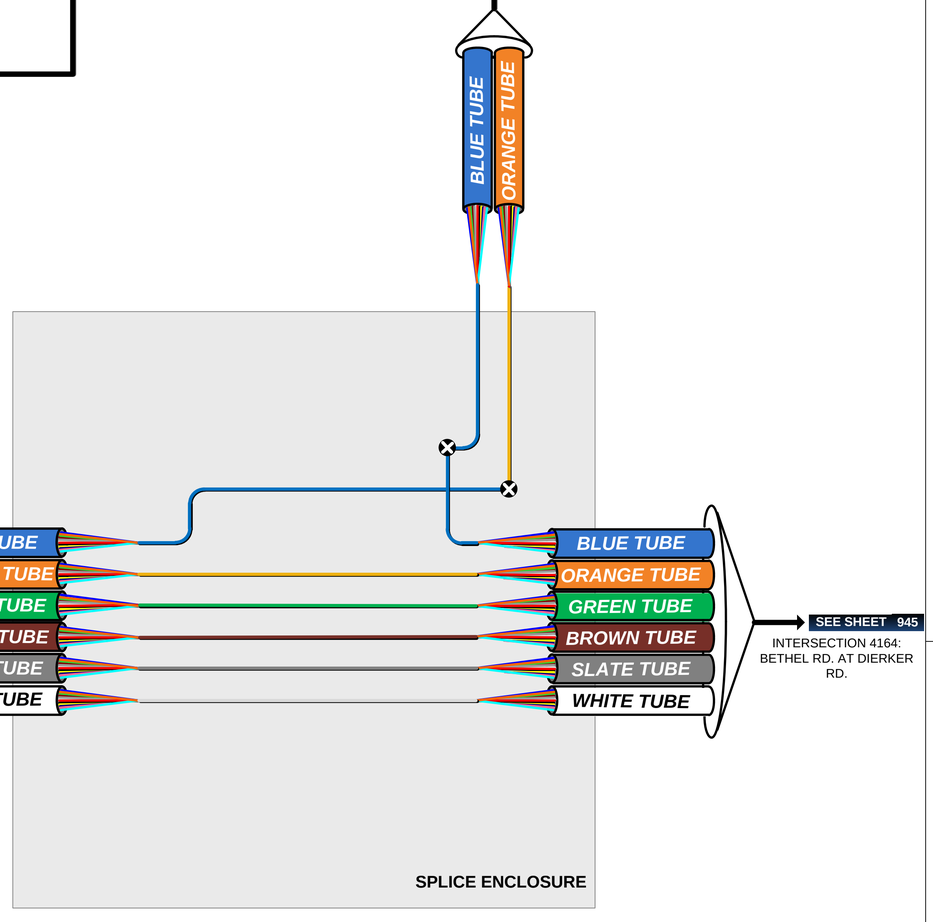
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



SPLICE ENCLOSURE

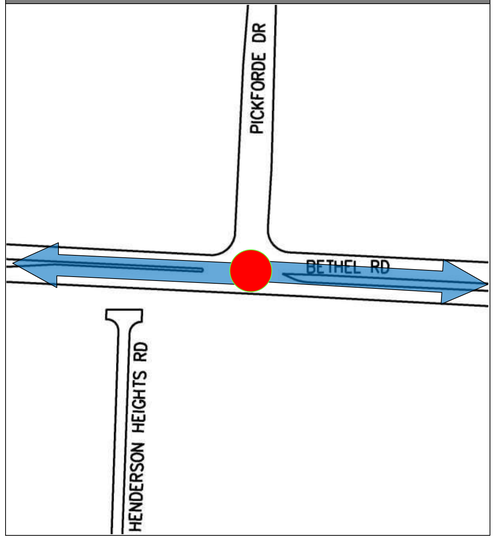
SEE SHEET 958
INTERSECTION 4186: BETHEL RD. AT CARRIAGE PLACE SHOPPING CENTER

SEE SHEET 945
INTERSECTION 4164: BETHEL RD. AT DIERKER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4187

REFER TO SHEET 430 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4187: BETHEL RD. AT PICKFORDE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4221: DUBLIN RD. AT FRANTZ RD.
SEE SHEET 976

PORT 6: INTERSECTION 4203: BLAZER PKWY. AT TUTTLE CROSSING BLVD.
SEE SHEET 967

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 977
INTERSECTION 4222: BRADENTON AVE. AT TUTTLE CROSSING BLVD.

SPLICE ENCLOSURE

SEE SHEET 970
INTERSECTION 4211: FRANTZ RD AT SHANNON HEIGHTS BLVD.

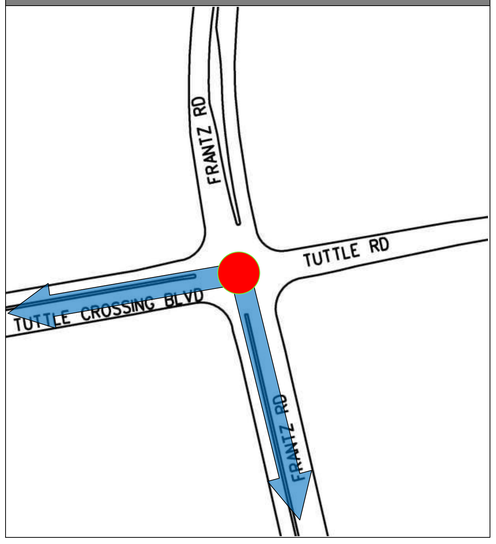
144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4188

REFER TO SHEET 464 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

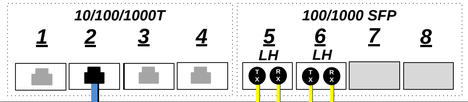
INTERSECTION 4188: FRANTZ RD. AT TUTTLE CROSSING BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports



ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4218: DUBLIN GRANVILLE RD. AT SAWMILL PLACE BLVD.
SEE SHEET 974

PORT 6: INTERSECTION 4126: DUBLIN GRANVILLE RD. AT SAWMILL RD.
SEE SHEET 939

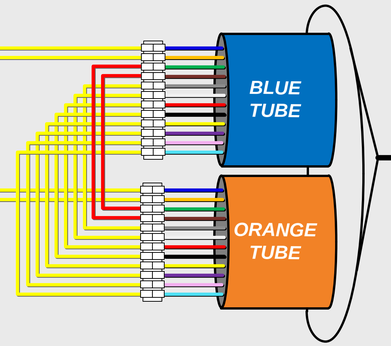
TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

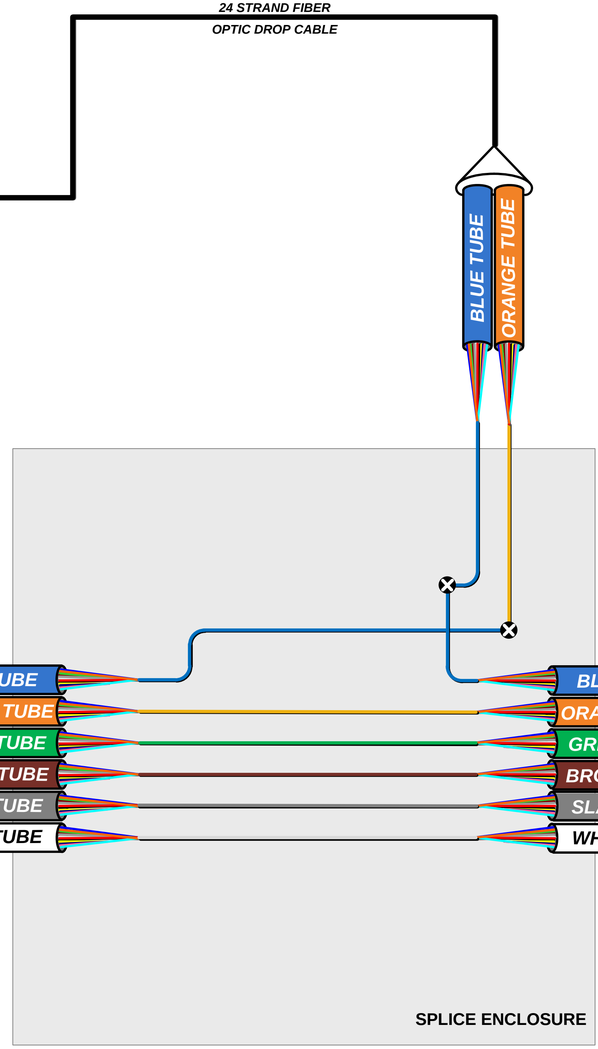
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



SPLICE ENCLOSURE

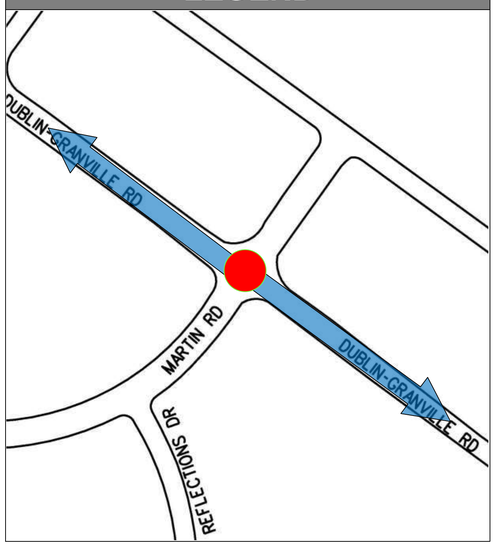
SEE SHEET 939
INTERSECTION 4126: DUBLIN GRANVILLE RD. AT SAWMILL RD.

SEE SHEET 974
INTERSECTION 4218: DUBLIN GRANVILLE RD. AT SAWMILL PLACE BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4190

REFER TO SHEET 451 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4190: DUBLIN GRANVILLE RD. AT MARTIN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4118: BETHEL RD. AT OLENTANGY RIVER RD.
SEE SHEET 934

PORT 6: INTERSECTION 4120: BETHEL RD. AT GODOWN RD.
SEE SHEET 935

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

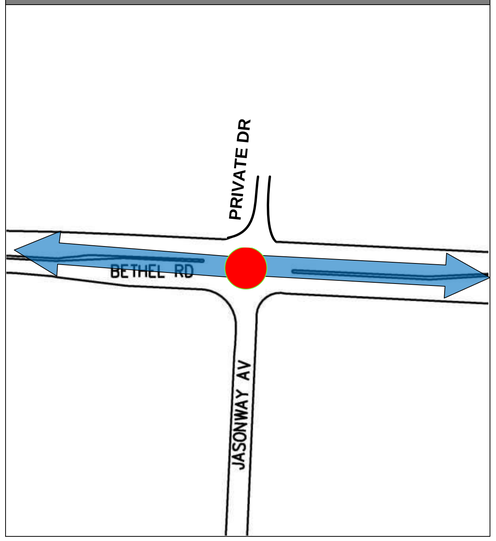
SEE SHEET 941
INTERSECTION 4142: BETHEL RD. AT KENNY RD.

SEE SHEET 940
INTERSECTION 4141: BETHEL RD. AT OLENTANGY PLAZA & OLENTANGY SQ.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4192

REFER TO SHEET 283 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4192: BETHEL RD. AT JASONWAY AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4165: MARTIN RD. AT SAWMILL RD.
SEE SHEET 946

PORT 6: INTERSECTION 4166: SAWMILL RD. AT WEST CASE RD. & ABBEY CHURCH RD.
SEE SHEET 947

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4171: MEIJER AT SAWMILL RD.
SEE SHEET 951

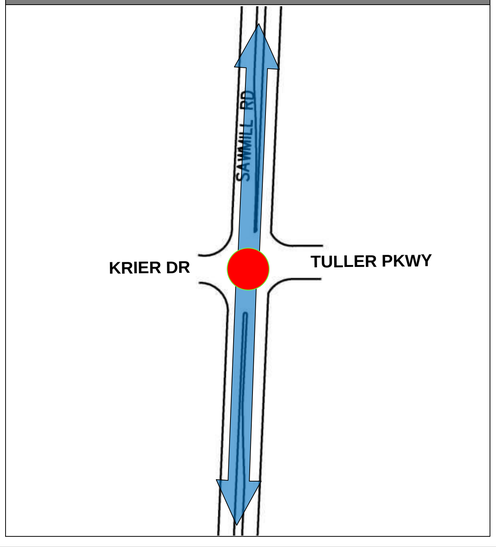
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 944

INTERSECTION 4155: CRANSTON DR. & REFLECTIONS DR. AT SAWMILL RD.

INTERSECTION 4197

REFER TO SHEET 452 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4197: KRIER DR. & TULLER PKWY. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4201: I-270 SB RAMPS AT TUTTLE CROSSING BLVD.
SEE SHEET 965

PORT 6: EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.
SEE SHEET 1088

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

WHITE TUBE

SEE SHEET 965

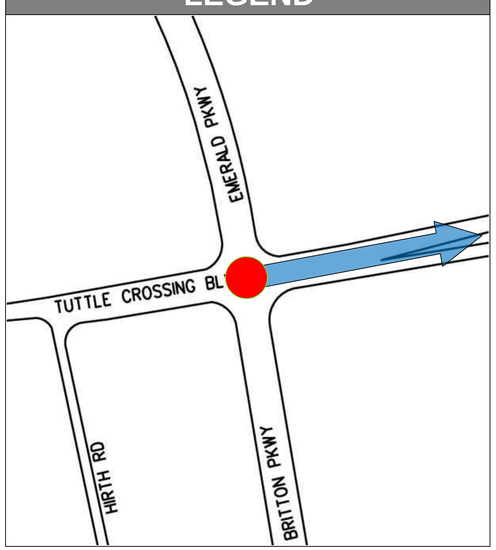
INTERSECTION 4201: I-270 SB RAMPS AT TUTTLE CROSSING BLVD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4200

REFER TO SHEET 459 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4200: BRITTON PKWY. AND EMERALD PKWY. AT TUTTLE CROSSING BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.
SEE SHEET 1088

PORT 6: INTERSECTION 4200: BRITTON PKWY. AND EMERALD PKWY. AT TUTTLE CROSSING BLVD.
SEE SHEET 964

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.
SEE SHEET 1088

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

SEE SHEET 964
INTERSECTION 4200: BRITTON PKWY. AND EMERALD PKWY. AT TUTTLE CROSSING BLVD.

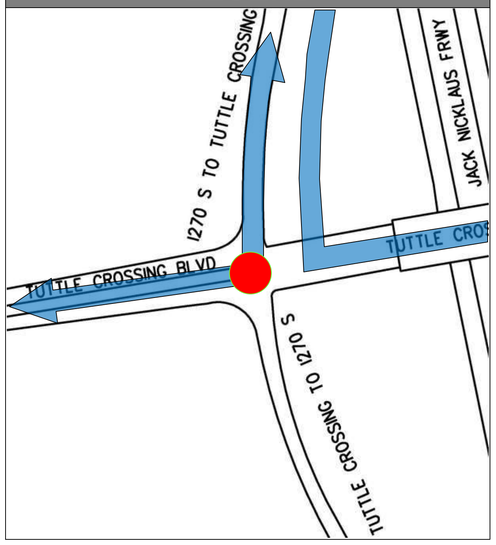
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4201

REFER TO SHEET 460 FOR CONSTRUCTION PLAN DETAILS

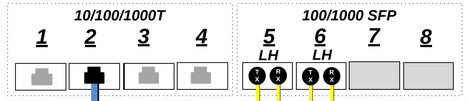
PID NUMBER 13034
2762 DR. E

INTERSECTION 4201: I-270 SB RAMPS AT TUTTLE CROSSING BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH — **Ports**

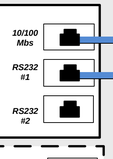


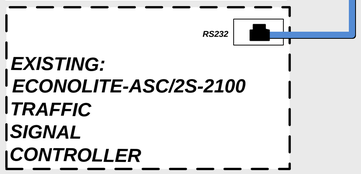
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4222: BRADENTON AVE. AT TUTTLE CROSSING BLVD.
SEE SHEET 977

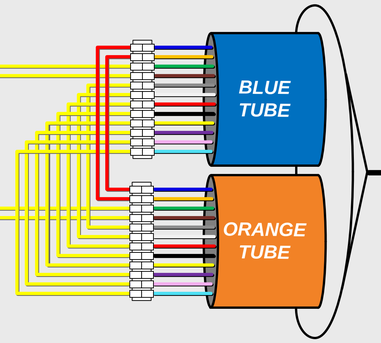
PORT 6: EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.
SEE SHEET 1088

TERMINAL SERVER





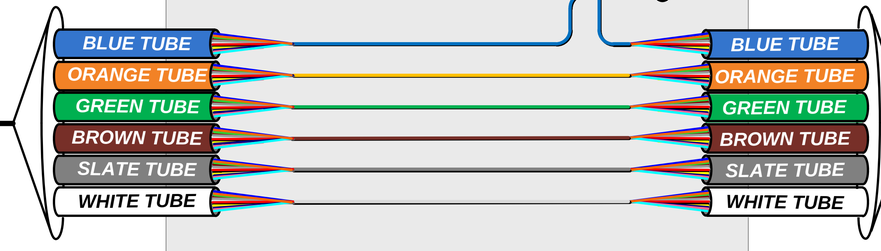
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



SPLICE ENCLOSURE



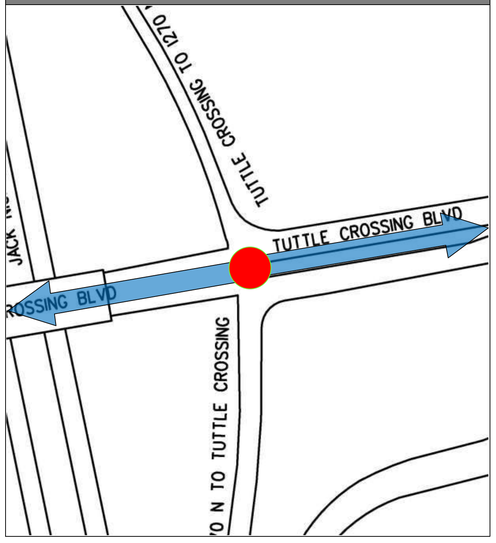
SEE SHEET 1089
EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.

SEE SHEET 967
INTERSECTION 4203: BLAZER PKWY. AT TUTTLE CROSSING BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4202

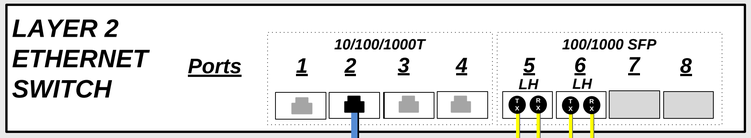
REFER TO SHEET 461 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4202: I-270 NB RAMPS AT TUTTLE CROSSING BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

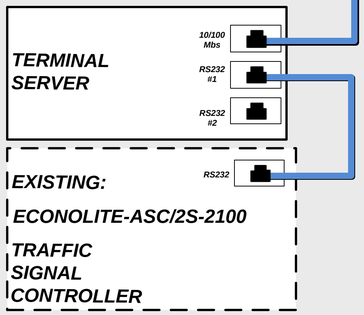
TRAFFIC SIGNAL CABINET ASSEMBLY



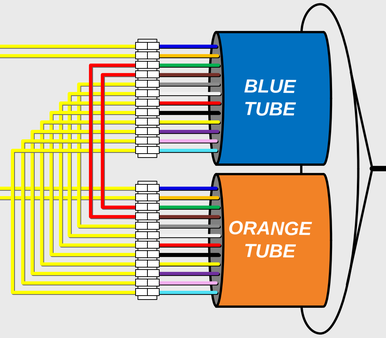
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4188: FRANTZ RD. AT TUTTLE CROSSING BLVD.
SEE SHEET 960

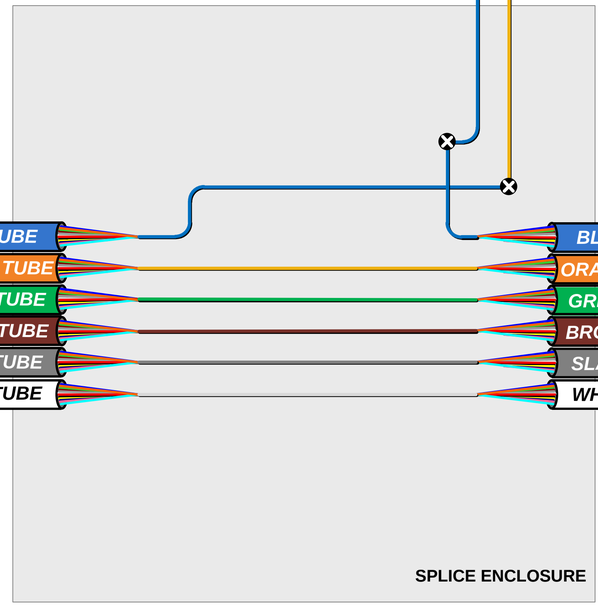
PORT 6: EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.
SEE SHEET 1088



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



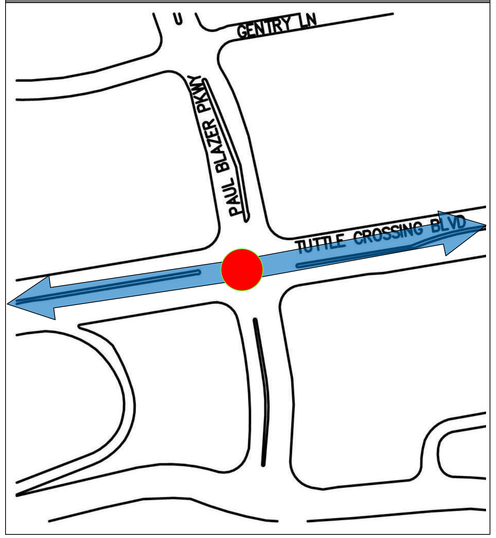
SEE SHEET 966
INTERSECTION 4202: I-270 NB RAMPS AT TUTTLE CROSSING BLVD.

SEE SHEET 977
INTERSECTION 4222: BRADENTON AVE. AT TUTTLE CROSSING BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4203
REFER TO SHEET 462 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4203: BLAZER PKWY. AT TUTTLE CROSSING BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8

10/100 Mbs

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 4229: BENT TREE BLVD. AT SAWMILL PLACE BLVD.
SEE SHEET 979

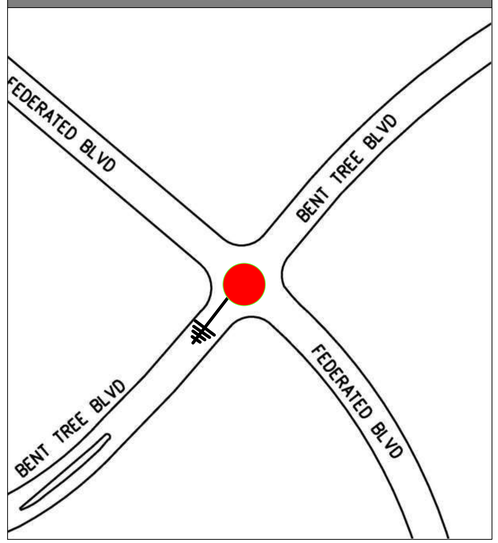
SEE SHEET 979

WIRELESS LINK TO INTERSECTION 4229: BENT TREE BLVD. AT SAWMILL PLACE BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4206

REFER TO SHEET 456 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4206: BENT TREE BLVD. AT FEDERATED BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4251: CHAPMAN ELEMENTARY SCHOOL AT SAWMILL RD.
SEE SHEET 984

PORT 6: INTERSECTION 4179: SAWMILL RD. AT SUMMER RD.
SEE SHEET 955

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2
- RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4231: SAWMILL RD. AT SUMMIT VIEW RD. EAST

SEE SHEET 980

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

SPLICE ENCLOSURE

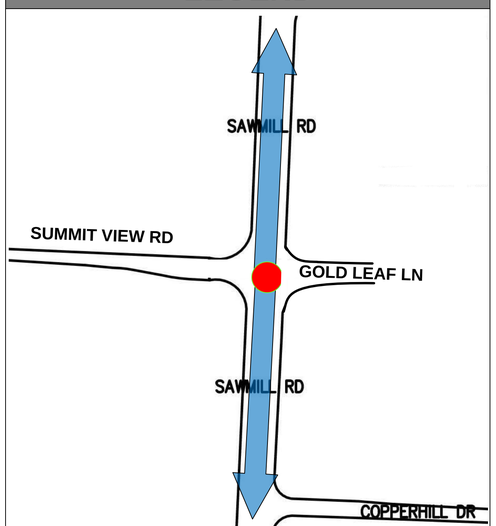
SEE SHEET 956

INTERSECTION 4180: EMERALD PKWY & SALTERGATE DR. AT SAWMILL RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
SEE SHEET 759 FOR TYPICAL FIBER SPLICING DIAGRAMS

INTERSECTION 4209

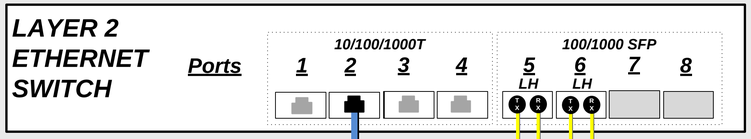
REFER TO SHEET 438 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4209: SAWMILL RD. AT SUMMIT VIEW RD. WEST
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

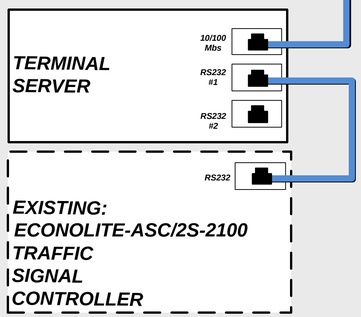
TRAFFIC SIGNAL CABINET ASSEMBLY



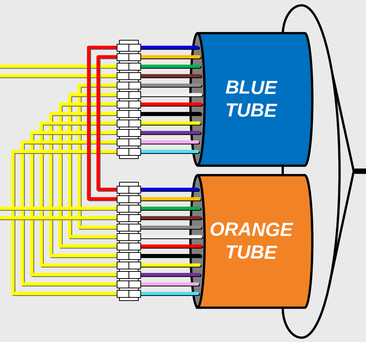
ETHERNET SWITCH PORT DESTINATION

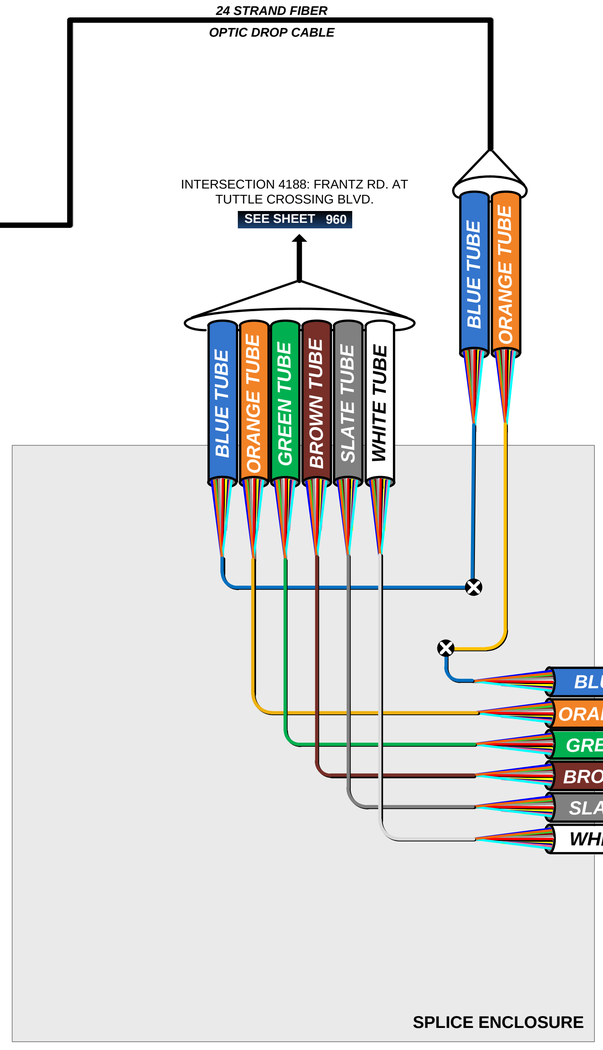
PORT 5: INTERSECTION 4222: BRADENTON AVE. AT TUTTLE CROSSING BLVD.
SEE SHEET 977

PORT 6: INTERSECTION 4145: DUBLIN RD. & FRANTZ RD. AT HAYDEN RUN RD.
SEE SHEET 943



PATCH PANEL ENCLOSURE – 24 TERMINATION

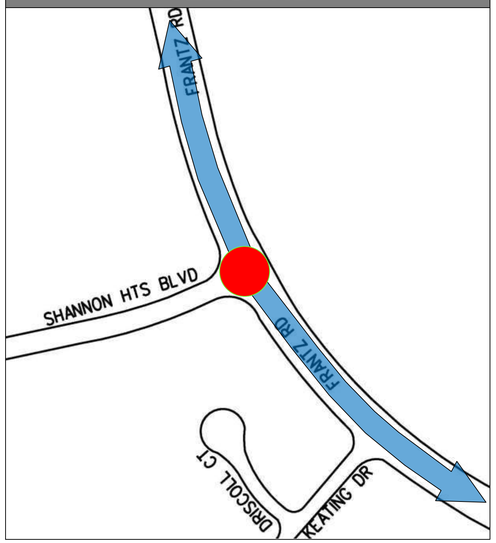




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4211

REFER TO SHEET 341 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4211: FRANTZ RD AT SHANNON HEIGHTS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4 — 100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4100: DUBLIN RD AT FISHINGER RD
SEE SHEET 1055

PORT 6: INTERSECTION 7001: FISHINGER BLVD. AT PARK MILL RUN DR./RIDGE MILL DR.
SEE SHEET 972A

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

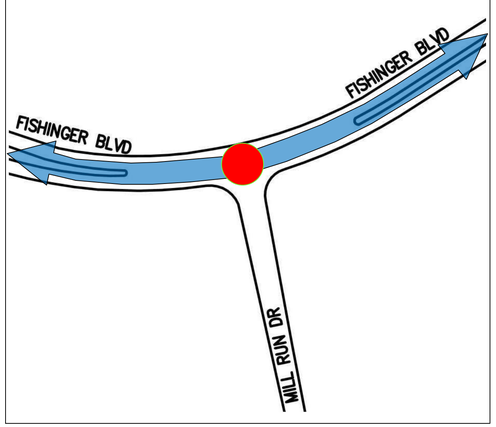
SEE SHEET 972
INTERSECTION 4214: FISHINGER BLVD. AT SPRING MILLS DR.

SEE SHEET 1059
INTERSECTION SIG4720: FISHINGER BLVD. AT SMILEY RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4213
REFER TO SHEET 346 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4213: FISHINGER BLVD. AT MILL RUN DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4720: FISHINGER BLVD. AT SMILEY RD.
SEE SHEET 1059

PORT 6: INTERSECTION 7002: FISHINGER BLVD. AT TRUEMAN BLVD.
SEE SHEET 972B

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 7001: FISHINGER BLVD. AT PARK MILL RUN DR./ RIDGE MILL DR.

SEE SHEET 972A

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 971

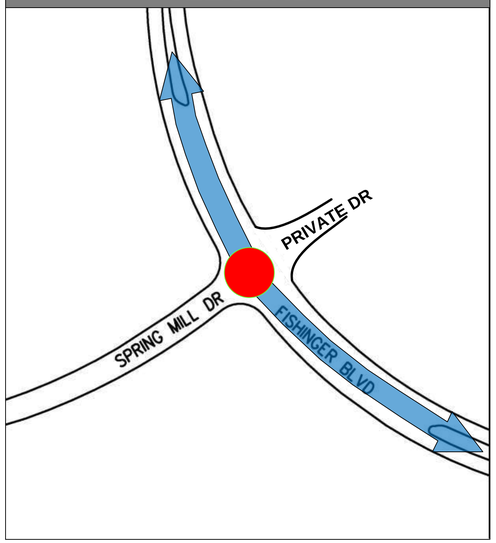
INTERSECTION 4213: FISHINGER BLVD. AT MILL RUN DR.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4214

REFER TO SHEET 347 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4214: FISHINGER BLVD. AT SPRING MILLS DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 7003: CEMETERY RD. AT IR-270 NB OFF RAMPS
SEE SHEET 972C

PORT 6: INTERSECTION 4213: FISHINGER BLVD. AT MILL RUN DR.
SEE SHEET 971

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 7002: FISHINGER BLVD. AT TRUEMAN BLVD.
SEE SHEET 972B

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

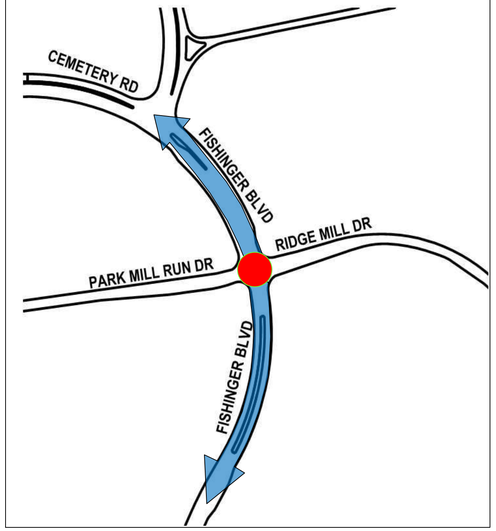
SEE SHEET 972

INTERSECTION 4214: FISHINGER BLVD. AT SPRING MILLS DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 7001

REFER TO SHEET 347A FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 7001: FISHINGER BLVD. AT PARK MILL RUN DR./RIDGE MILL DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4214: FISHINGER BLVD. AT SPRING MILLS DR.
SEE SHEET 972

PORT 6: PROPOSED COMMUNICATION NODE 270012.6: I-270 AT FISHINGER BLVD.
SEE SHEET 1086

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

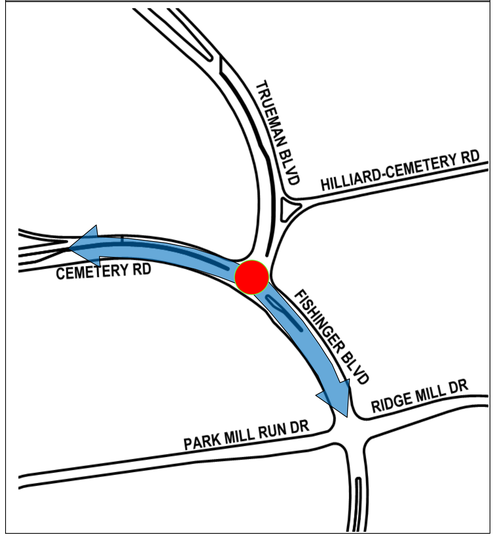
SPLICE ENCLOSURE

SEE SHEET 972C
INTERSECTION 7003: CEMETERY RD. AT IR-270 NB OFF RAMPS

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 972A
INTERSECTION 7001: FISHINGER BLVD. AT PARK MILL RUN DR./ RIDGE MILL DR.

INTERSECTION 7002

REFER TO SHEET 347B FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 7002: FISHINGER BLVD. AT TRUEMAN BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 7001: FISHINGER BLVD. AT PARK MILL RUN DR./ RIDGE MILL DR.
SEE SHEET 972A

PORT 6: PROPOSED COMMUNICATION NODE 270012.6: I-270 AT FISHINGER BLVD.
SEE SHEET 1086

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2
RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1087
PROPOSED COMMUNICATION NODE 270012.6-2: I-270 AT FISHINGER BLVD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

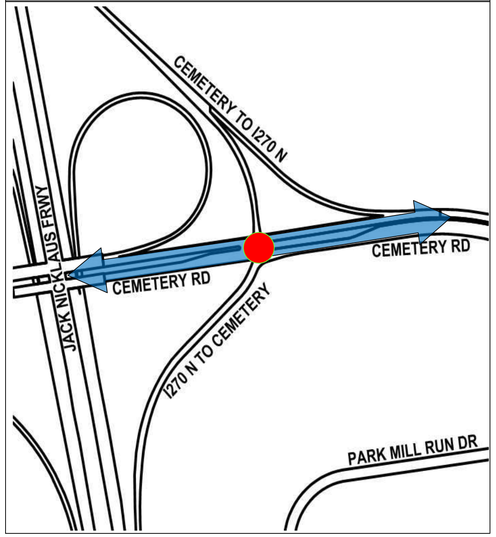
SEE SHEET 972B
INTERSECTION 7002: FISHINGER BLVD. AT TRUEMAN BLVD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 7003

REFER TO SHEET 347C FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 7003: CEMETERY RD. AT IR-270 NB OFF RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4115: DIERKER RD. AT HENDERSON RD.
SEE SHEET 931

PORT 6: INTERSECTION 4114: GETTYSBURG RD. & GREEN TREE CENTER DR. AT HENDERSON RD.
SEE SHEET 930

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

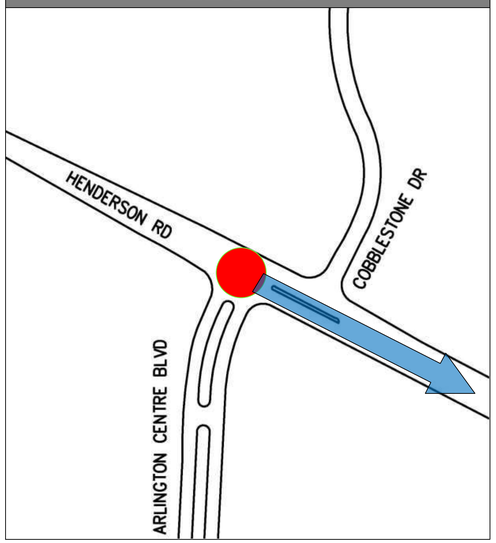
SEE SHEET 931
INTERSECTION 4115: DIERKER RD. AT HENDERSON RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4216

REFER TO SHEET 347 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4216: ARLINGTON CENTRE BLVD. AT HENDERSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4 (3: 10/100 Mbs)

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

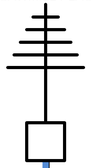
PORT 5: INTERSECTION 4190: DUBLIN GRANVILLE RD. AT MARTIN RD.
SEE SHEET 961

PORT 6: INTERSECTION 4126: DUBLIN GRANVILLE RD. AT SAWMILL RD.
SEE SHEET 939

PORT 3: INTERSECTION 4229: BENT TREE BLVD. AT SAWMILL PLACE BLVD.
SEE SHEET 979

SEE SHEET 979

WIRELESS LINK TO INTERSECTION 4229: BENT TREE BLVD. AT SAWMILL PLACE BLVD.



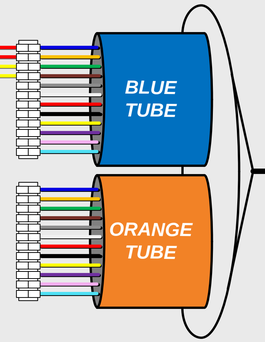
TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

RS232

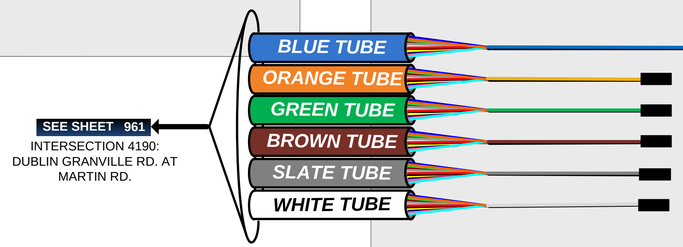
EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE





SEE SHEET 961

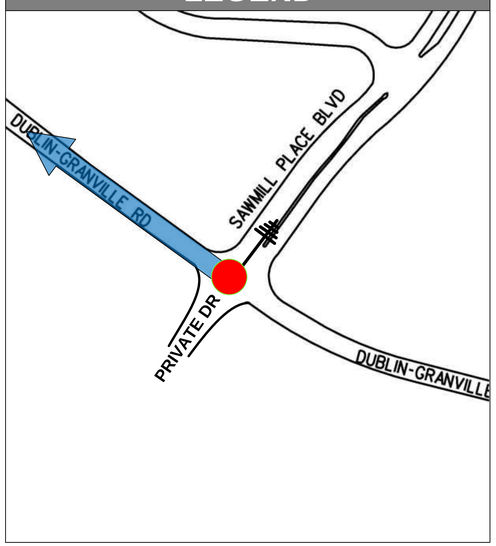
INTERSECTION 4190: DUBLIN GRANVILLE RD. AT MARTIN RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS

*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4218

REFER TO SHEET 454 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4218: DUBLIN GRANVILLE RD. AT SAWMILL PLACE BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4144: SAWMILL RD. AT SNOUFFER RD.
SEE SHEET 942

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING:
ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

- BLUE TUBE
- ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

SPLICE ENCLOSURE

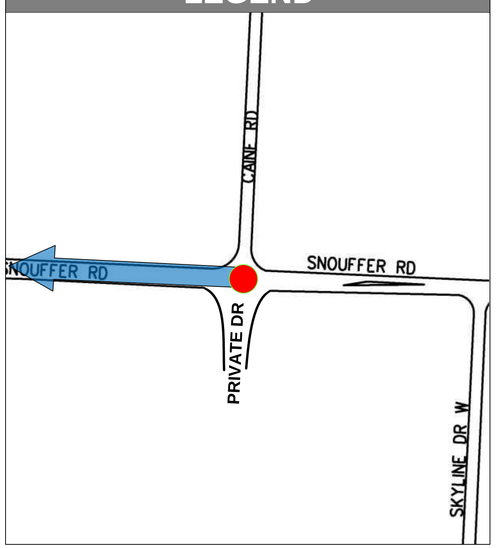
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

SEE SHEET 942
INTERSECTION 4144: SAWMILL RD. AT SNOUFFER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4220
REFER TO SHEET 455 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4220: CAINE RD. AT SNOUFFER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4188: FRANTZ RD. AT TUTTLE CROSSING BLVD.
SEE SHEET 960

PORT 6: INTERSECTION 4145: DUBLIN RD. & FRANTZ RD. AT HAYDEN RUN RD.
SEE SHEET 943

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 970
INTERSECTION 4211: FRANTZ RD AT SHANNON HEIGHTS BLVD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

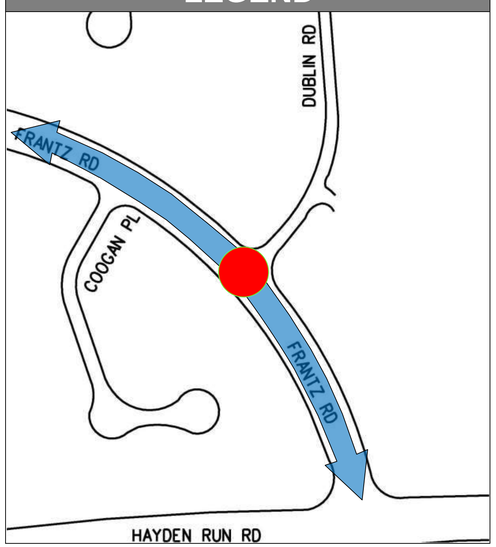
144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 943
INTERSECTION 4145: DUBLIN RD. & FRANTZ RD. AT HAYDEN RUN RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4221

REFER TO SHEET 342 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4221: DUBLIN RD. AT FRANTZ RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4211: FRANTZ RD AT SHANNON HEIGHTS BLVD.
SEE SHEET 970

PORT 6: INTERSECTION 4202: I-270 NB RAMPS AT TUTTLE CROSSING BLVD.
SEE SHEET 966

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

SPLICE ENCLOSURE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

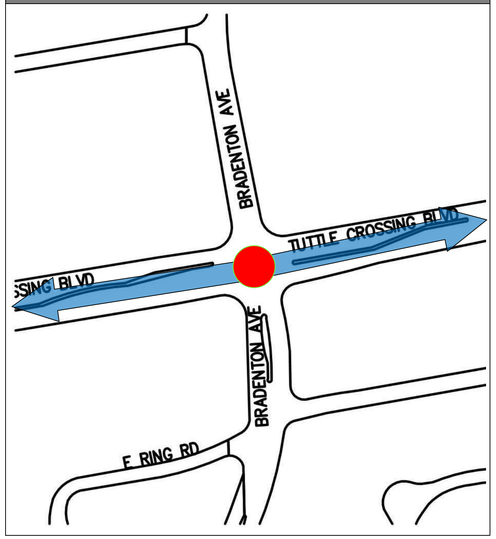
SEE SHEET 967
INTERSECTION 4203: BLAZER PKWY. AT TUTTLE CROSSING BLVD.

SEE SHEET 960
INTERSECTION 4188: FRANTZ RD. AT TUTTLE CROSSING BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4222

REFER TO SHEET 463 FOR CONSTRUCTION PLAN DETAILS

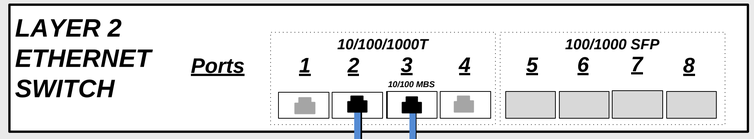
PID NUMBER 13034
2762 DR. E

INTERSECTION 4222: BRADENTON AVE. AT TUTTLE CROSSING BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

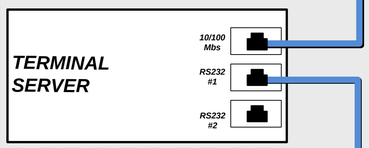
977
1107

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 4258: EDWARDS FARM RD. AT HAYDEN RUN RD.
SEE SHEET 988



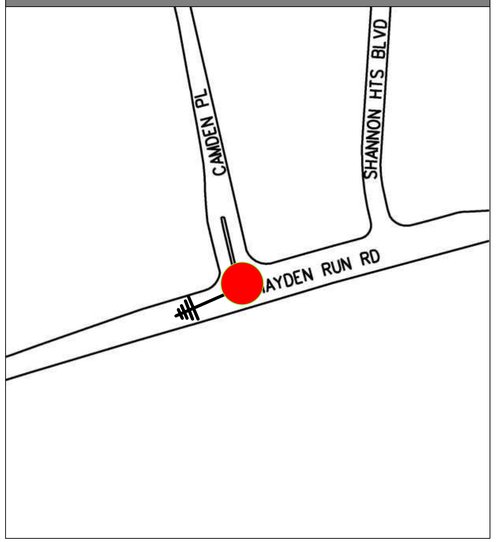




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4228

REFER TO SHEET 343 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4228: CAMDEN PLACE DR. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8
		10/100 MBS	10/100 MBS				

TERMINAL SERVER

- 10/100 MBS
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 4206: BENT TREE BLVD. AT FEDERATED BLVD.
SEE SHEET 968

PORT 4: INTERSECTION 4218: DUBLIN GRANVILLE RD. AT SAWMILL PLACE BLVD.
SEE SHEET 974

SEE SHEET 968

WIRELESS LINK TO INTERSECTION 4206: BENT TREE BLVD. AT FEDERATED BLVD.

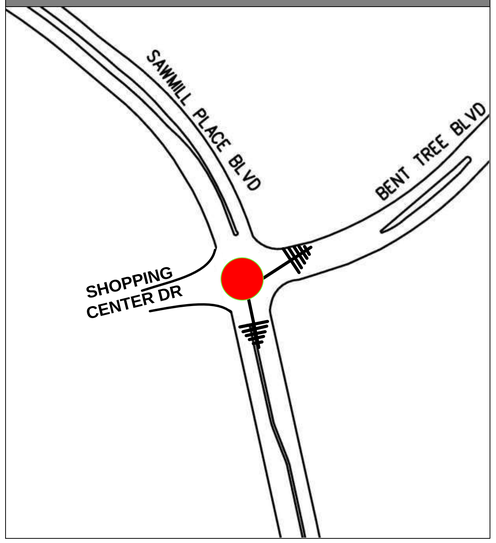
SEE SHEET 974

WIRELESS LINK TO INTERSECTION 4218: DUBLIN GRANVILLE RD. AT SAWMILL PLACE BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4229

REFER TO SHEET 457 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4229: BENT TREE BLVD. AT SAWMILL PLACE BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4251: CHAPMAN ELEMENTARY SCHOOL AT SAWMILL RD.
SEE SHEET 984

PORT 6: INTERSECTION 4180: EMERALD PKWY & SALTERGATE DR. AT SAWMILL RD.
SEE SHEET 956

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2
- RS232

EXISTING:
ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4251: CHAPMAN ELEMENTARY SCHOOL AT SAWMILL RD.
SEE SHEET 984

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

SPLICE ENCLOSURE

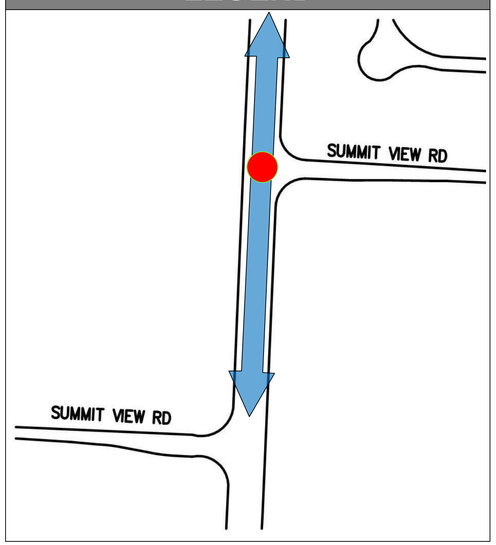
BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

SEE SHEET 969

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4209: SAWMILL RD. AT SUMMIT VIEW RD. WEST

INTERSECTION 4231

REFER TO SHEET 439 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4231: SAWMILL RD. AT SUMMIT VIEW RD. EAST
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4120: BETHEL RD. AT GODOWN RD.
SEE SHEET 935

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

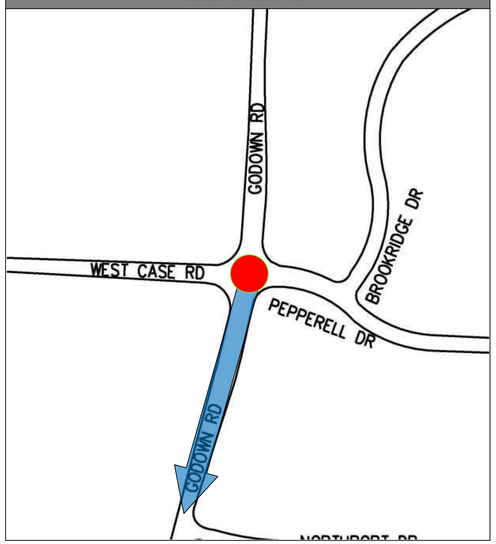
WHITE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 935

INTERSECTION 4120: BETHEL RD. AT GODOWN RD.

INTERSECTION 4235

REFER TO SHEET 284 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4235: GODOWN RD. AT PEPPERELL DR. & WEST CASE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4185: RESLER DR. AT SAWMILL RD.
SEE SHEET 957

PORT 6: INTERSECTION 4253: HENDERSON RD. AT SAWMILL RD.
SEE SHEET 985

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4125: BETHEL RD. AT SAWMILL RD.

SEE SHEET 938

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

SEE SHEET 985

INTERSECTION 4253: HENDERSON RD. AT SAWMILL RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND

SAWMILL RD

GIANT EAGLE

144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4238

REFER TO SHEET 431 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4238: GIANT EAGLE AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0112: KILBOURNE ST. AT VINE ST.
SEE SHEET 864

PORT 6: INTERSECTION 4071: GOODALE ST. AT OLENTANGY RIVER RD. & TWIN RIVERS DR.
SEE SHEET 920

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

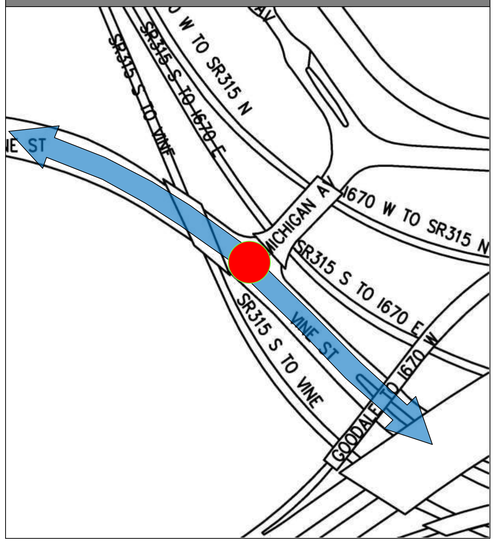
SEE SHEET 919
INTERSECTION 4070: GOODALE ST. AT SR-315 NB RAMPS

SEE SHEET 921
INTERSECTION 4075: NEIL AVE. AT VINE ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4246

REFER TO SHEET 190 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4246: GOODALE ST. AT VINE ST. & MICHIGAN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4209: SAWMILL RD. AT SUMMIT VIEW RD. WEST
SEE SHEET 969

PORT 6: INTERSECTION 4231: SAWMILL RD. AT SUMMIT VIEW RD. EAST
SEE SHEET 980

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

RS232

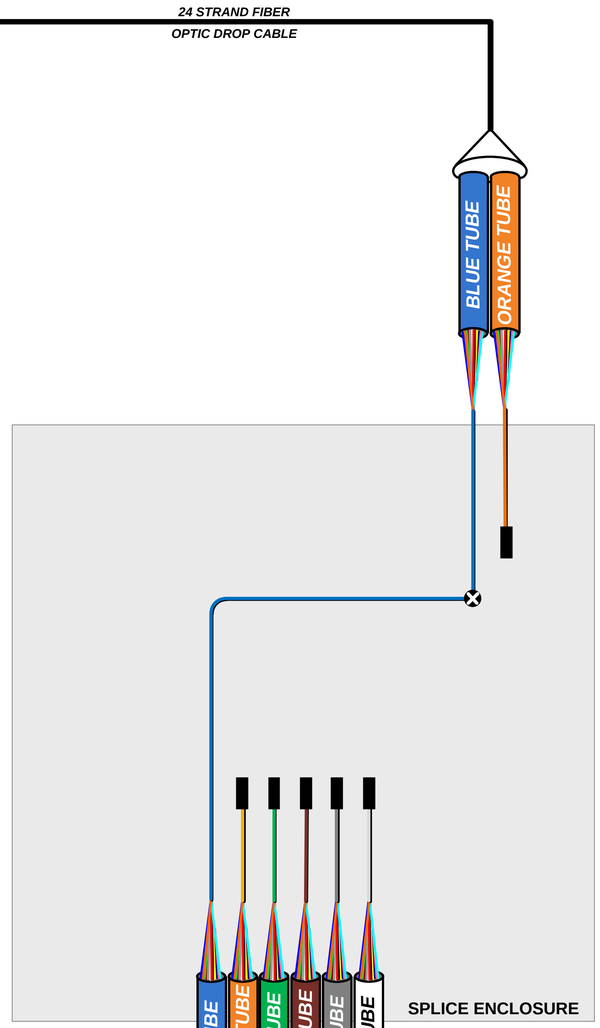
EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE



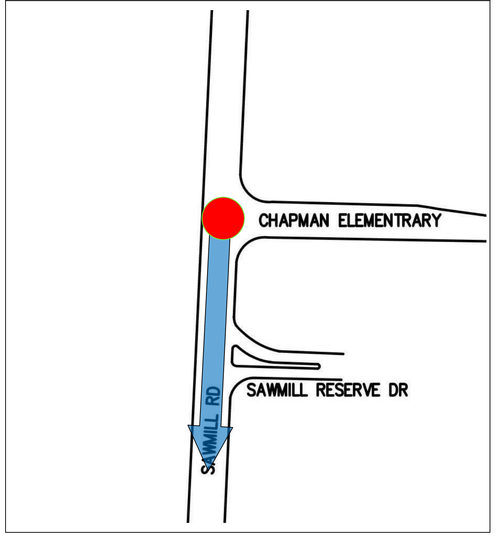
SEE SHEET 980

INTERSECTION 4231: SAWMILL RD. AT SUMMIT VIEW RD. EAST

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4251

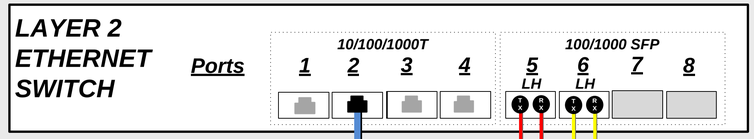
REFER TO SHEET 440 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4251: CHAPMAN ELEMENTARY SCHOOL AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

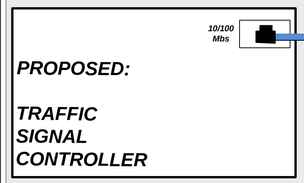
TRAFFIC SIGNAL CABINET ASSEMBLY



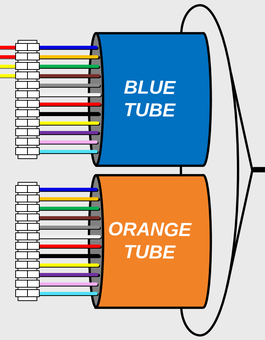
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4238: GIANT EAGLE AT SAWMILL RD.
SEE SHEET 982

PORT 6: INTERSECTION 4125: BETHEL RD. AT SAWMILL RD.
SEE SHEET 938

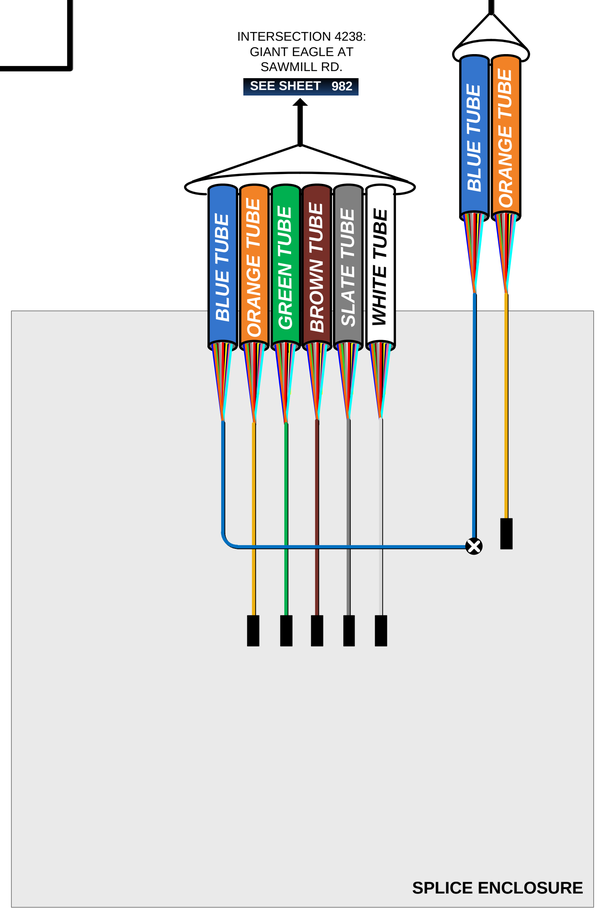


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION 4238:
GIANT EAGLE AT
SAWMILL RD.
SEE SHEET 982

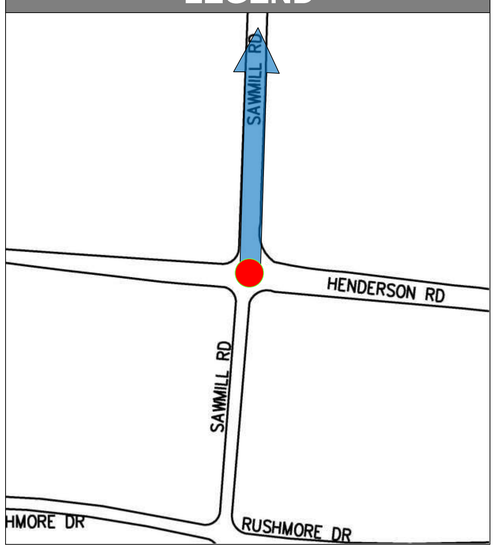


SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION 4253

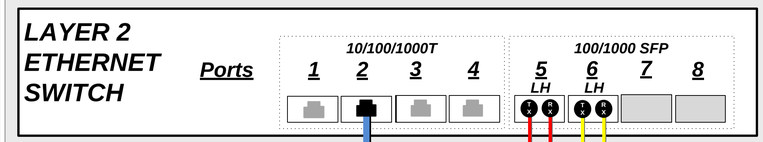
REFER TO SHEET 426 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4253: HENDERSON RD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

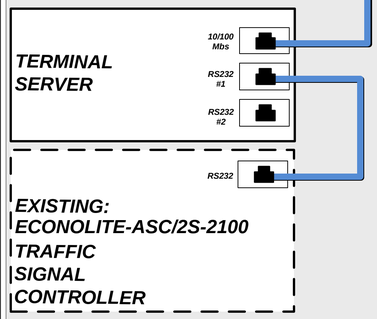
TRAFFIC SIGNAL CABINET ASSEMBLY

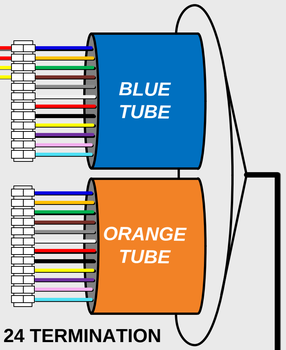


ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4085: OLENTANGY RIVER RD. AT SR-315 SB RAMPS
SEE SHEET 922

PORT 6: INTERSECTION 4071: GOODALE ST. AT OLENTANGY RIVER RD. & TWIN RIVERS DR.
SEE SHEET 920

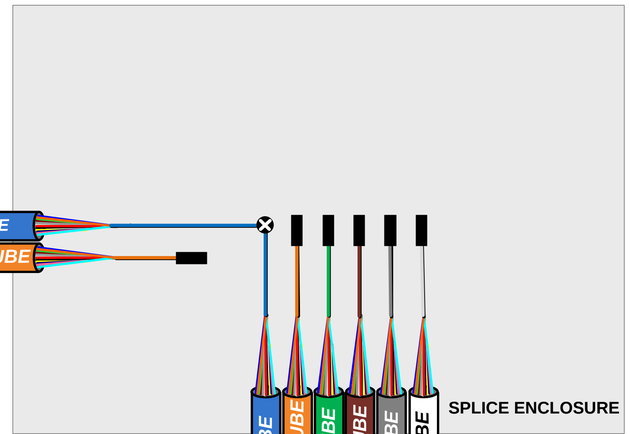




PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER
OPTIC DROP CABLE





SEE SHEET 922

INTERSECTION 4085: OLENTANGY RIVER RD. AT SR-315 SB RAMPS

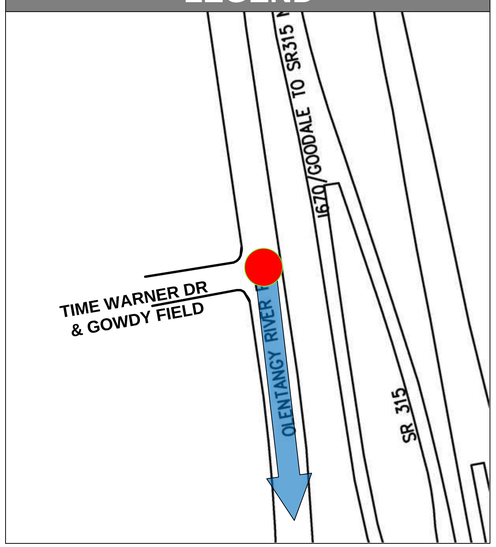
144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4254

REFER TO SHEET 198 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4254: OLENTANGY RIVER RD. AT GOWDY FIELD DR. & TIME WARNER DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 4177: BRIGHT RD. & SAWBURY BLVD. AT SAWMILL RD.
SEE SHEET 953

PORT 6: EXISTING COMMUNICATION NODE 270019.8: I-270 AT SAWMILL RD.
SEE SHEET 1090

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

- BLUE TUBE
- ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 4176: BILLINGSLEY RD. AT SAWMILL RD.
SEE SHEET 952

SPLICE ENCLOSURE

- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

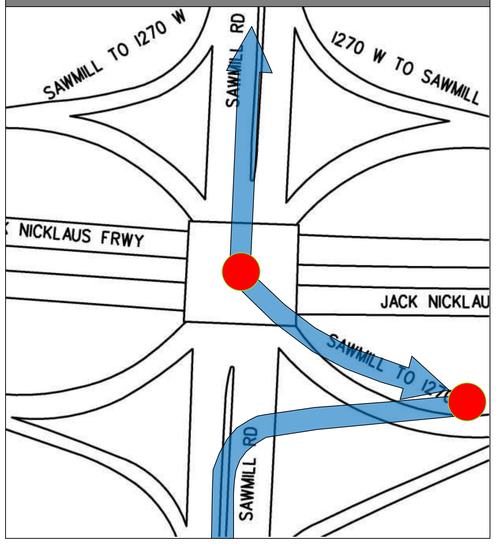
144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 1091
EXISTING COMMUNICATION NODE 270019.8: I-270 AT SAWMILL RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4255
REFER TO SHEET 442 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4255: I-270 (SPUI) AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8
		10/100 Mbs	10/100 Mbs				

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION 4228: CAMDEN PLACE DR. AT HAYDEN RUN RD.
SEE SHEET 978

PORT 4: REPEATER R-01: I-270 AT HAYDEN RUN RD.
SEE SHEET 1077

SEE SHEET 1077

WIRELESS LINK TO REPEATER R-01: I-270 AT HAYDEN RUN RD.

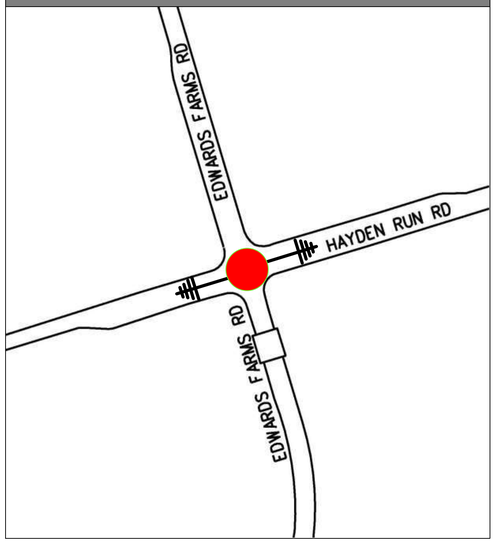
SEE SHEET 978

WIRELESS LINK TO INTERSECTION 4228: CAMDEN PLACE DR. AT HAYDEN RUN RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4258

REFER TO SHEET 344 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 4258: EDWARDS FARM RD. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0119: ELIJAH PIERCE AT LONG ST. (FUTURE)
SEE SHEET 990A

PORT 6: INTERSECTION 0116: LESTER DR. AT SPRING ST.
SEE SHEET 991

10/100 Mbs

EXISTING:

TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

INTERSECTION 0116: LESTER DR. AT SPRING ST.
SEE SHEET 991

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 990A

INTERSECTION 0119: ELIJAH PIERCE DR. AT LONG ST. (FUTURE)

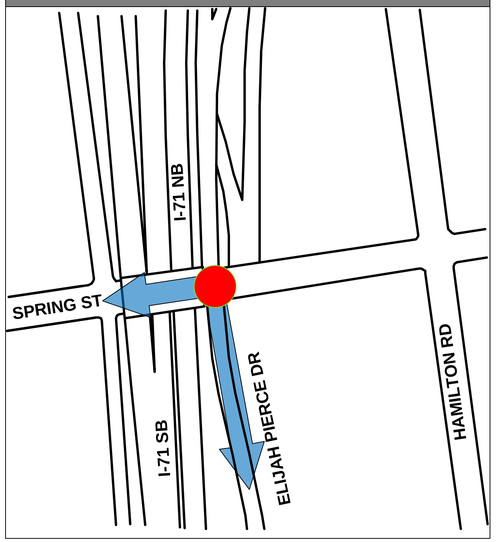
PATCH PANEL ENCLOSURE – 24 TERMINATION

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0117

REFER TO SHEET 202 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0117: ELIJAH PIERCE AT SPRING ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

EXISTING:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: FUTURE CONNECTION TO NODE 070100.9: I-70 AT I-71 EAST INTERCHANGE

PORT 6: INTERSECTION 3052: HAMILTON AVE. AT LONG ST.
SEE SHEET 880

PORT 7: INTERSECTION 0029: LONG ST. AT WASHINGTON AVE.
SEE SHEET 788

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

I-71 AT LESTER DR SPLICE ENCLOSURE
SEE SHEET 991A

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

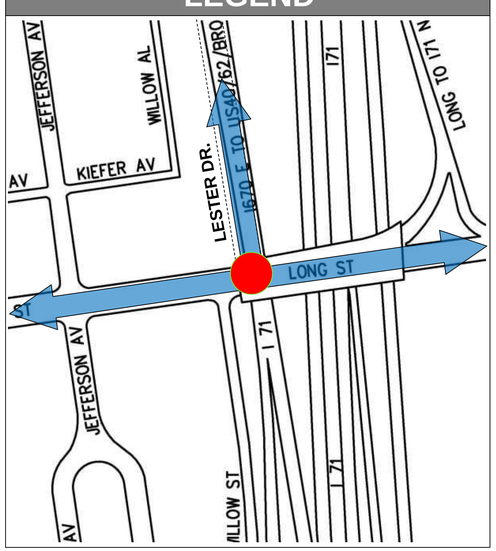
BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0030: LONG ST. AT JEFFERSON AVE.
SEE SHEET 789

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 990A
INTERSECTION 0119: ELIJAH PIERCE DR. AT LONG ST. (FUTURE)

SPLICE ENCLOSURE IN EXISTING PULL BOX

INTERSECTION 0118

REFER TO SHEET 201 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0118: LESTER DR. AT LONG ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0117: ELIJAH PIERCE AT SPRING ST.
SEE SHEET 989

PORT 6: INTERSECTION 3052: HAMILTON AVE. AT LONG ST.
SEE SHEET 880

PORT 7: INTERSECTION 0030: LONG ST. AT JEFFERSON AVE.
SEE SHEET 789

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

EX CCTV FIELD BOX

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

EXISTING CCTV

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 0117: ELIJAH PIERCE AT SPRING ST.
SEE SHEET 989

144 STRAND FOC INTERCONNECT TRUNK CABLE

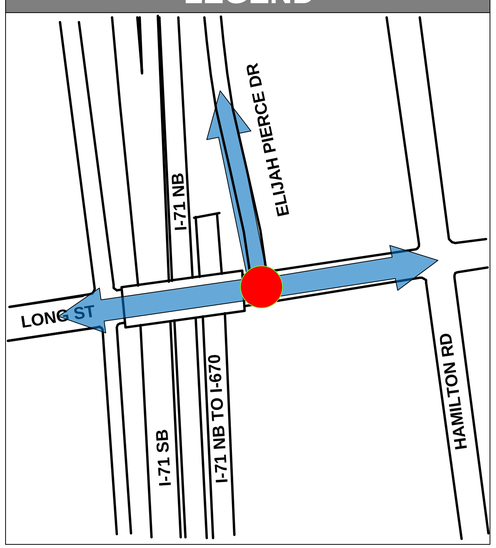
BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0118: LESTER DR. AT LONG ST.
SEE SHEET 990

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 880
INTERSECTION 3052: HAMILTON AVE. AT LONG ST.

SPLICE ENCLOSURE IN EXISTING PULL BOX

INTERSECTION 0119 (FUTURE)

REFER TO SHEET 518 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0119: ELIJAH PIERCE AT LONG ST. (FUTURE)
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

990A
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 0117: ELIJAH PIERCE AT SPRING ST.
SEE SHEET 989

PORT 6: EXISTING COMMUNICATIONS NODE 071109.0: I-71 AT I-670
SEE SHEET 1107A

10/100 Mbs

EXISTING:

TRAFFIC SIGNAL CONTROLLER

COMPOSITE CCTV CABLE

EXISTING CCTV

24 STRAND FIBER OPTIC DROP CABLE

EX CCTV FIELD BOX

CCTV/HEATER POWER

8P8C

10/100 Mbs

ANALOG VIDEO

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 989
INTERSECTION 0117: ELIJAH PIERCE AT SPRING ST.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SPLICE ENCLOSURE

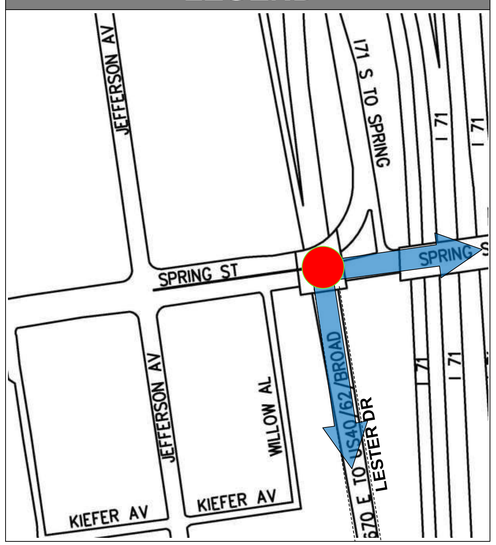
144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 991A
I-71 AT LESTER DR SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 0116

REFER TO SHEET 202 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION 0116: LESTER DR. AT SPRING ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

991
1107

SEE SHEET 991 INTERSECTION 0116: LESTER DR. AT SPRING ST.

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

288 STRAND FOC DROP CABLE

EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670

288 STRAND FOC CABLE

EXISTING COMMUNICATION NODE 070100.9: I-70/I-71 EAST INTERCHANGE

SPLICE ENCLOSURE
SE-U5 (SHEET 518)
IN EXISTING PULL BOX

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 990 INTERSECTION 0118: LESTER DR. AT LONG ST.

LESTER DR AT I-71 SPLICE ENCLOSURE

PID NUMBER 13034
2762 DR. E

LESTER DR AT I-71 SPLICE ENCLOSURE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N007: MORSE RD. AT SINCLAIR RD.
SEE SHEET 994

PORT 6: PROPOSED COMMUNICATION NODE 071116.2: I-71 AT MORSE RD.
SEE SHEET 1080

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

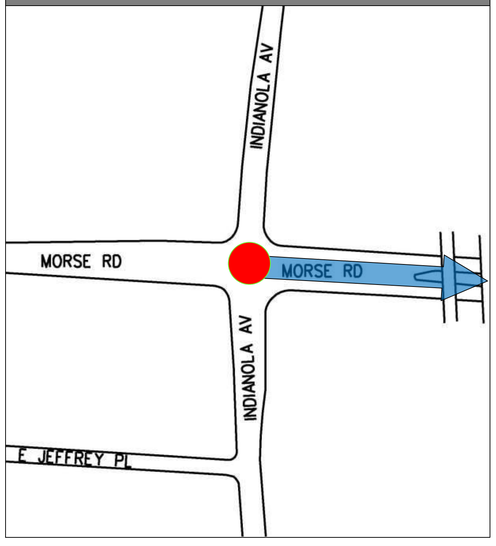
SEE SHEET 994
INTERSECTION N007: MORSE RD. AT SINCLAIR RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N005

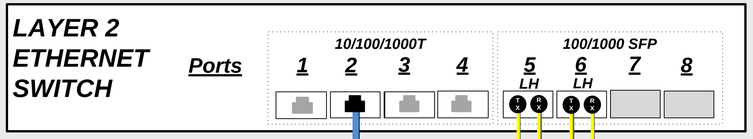
REFER TO SHEET 205 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N005: INDIANOLA AVE. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

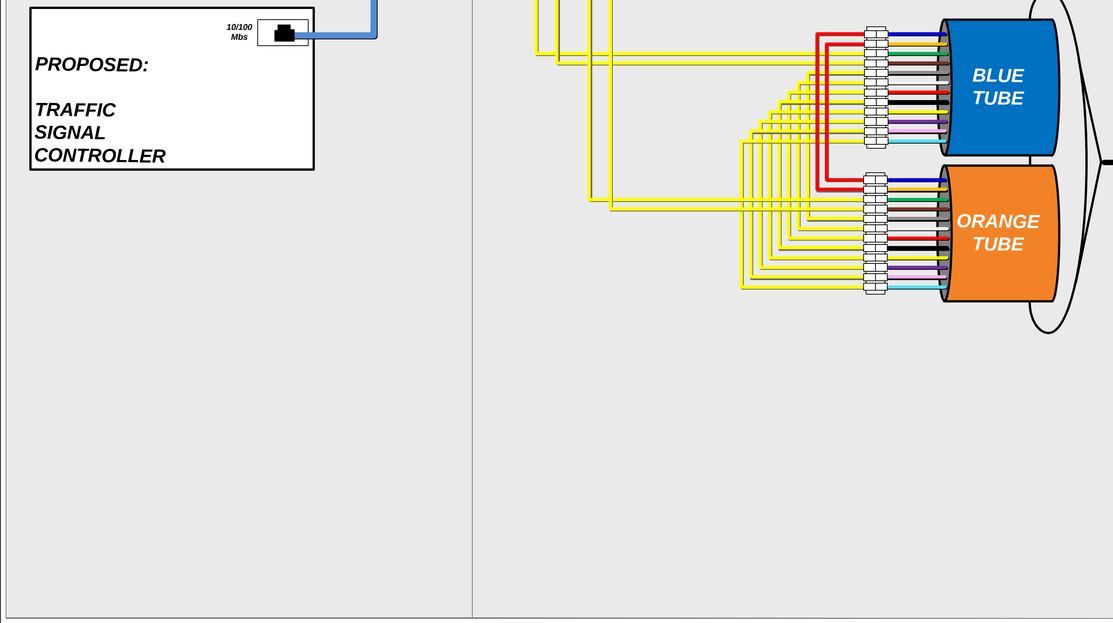
TRAFFIC SIGNAL CABINET ASSEMBLY



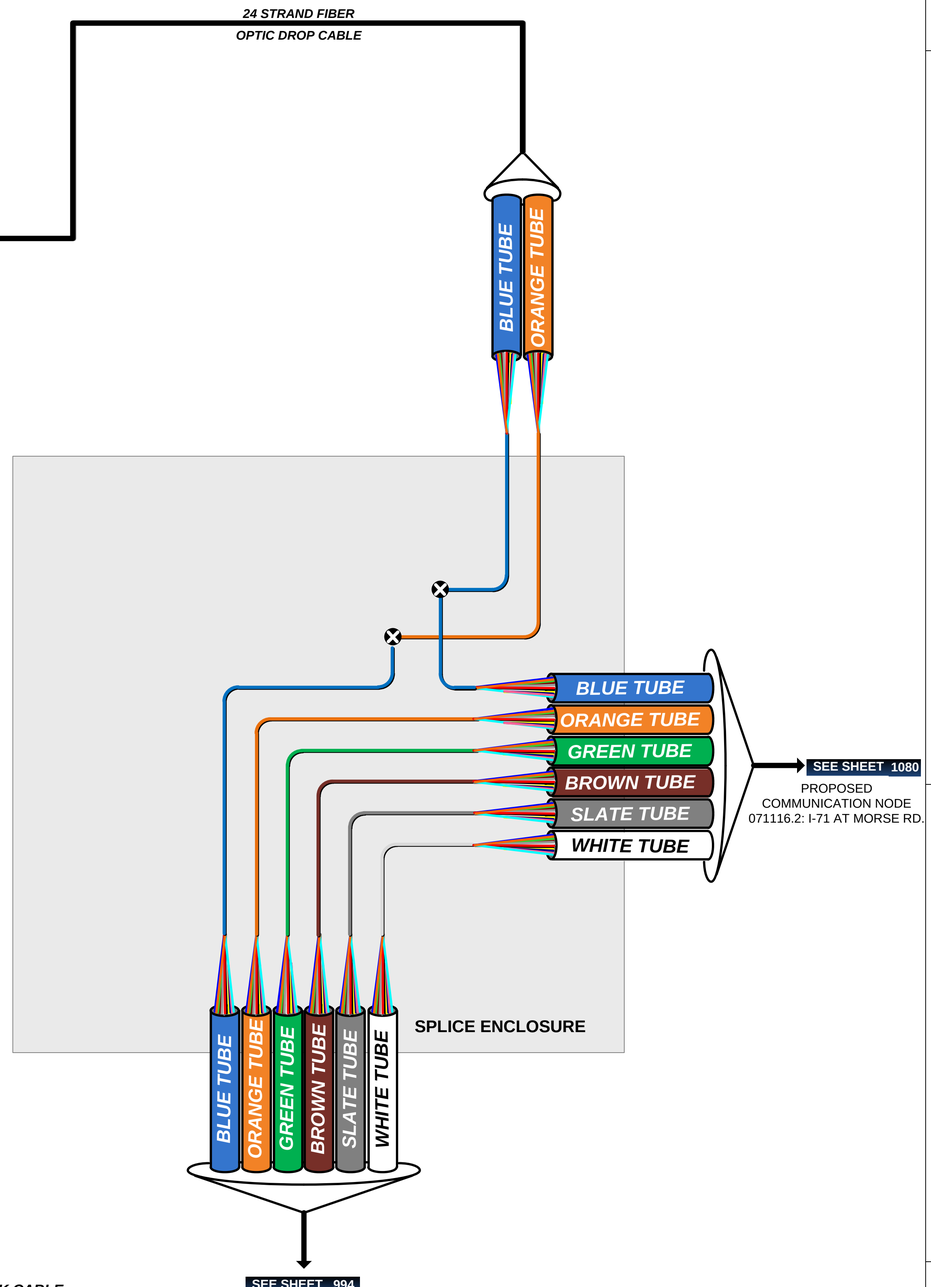
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE 071116.2: I-71 AT MORSE RD.
SEE SHEET 1080

PORT 6: INTERSECTION N008: I-71 NB RAMPS AT MORSE RD.
SEE SHEET 995



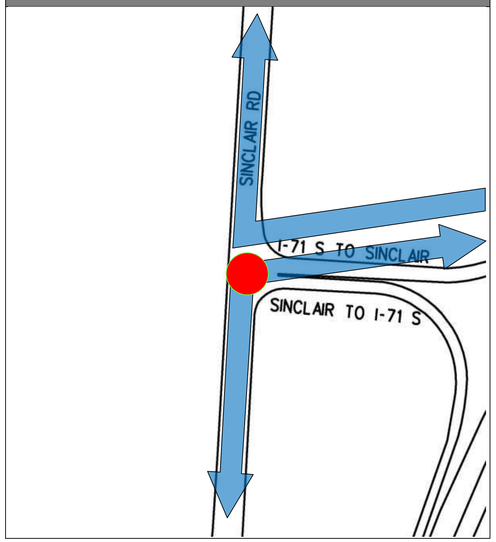
PATCH PANEL ENCLOSURE – 24 TERMINATION



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N006

REFER TO SHEET 209 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N006: I-71 SB RAMPS AT SINCLAIR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH — **Ports**

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE 071116.2: I-71 AT MORSE RD.
SEE SHEET 1080

PORT 6: INTERSECTION N046: EVANSWOOD DR. AT MORSE RD.
SEE SHEET 1033

PORT 7: INTERSECTION N005: INDIANOLA AVE. AT MORSE RD.
SEE SHEET 992

PORT 8: EXISTING CCTV: MORSE RD. AT I-71
SEE THIS SHEET

TERMINAL SERVER
- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER
- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE
24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 994A TO SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

EXISTING CCTV SITE MORSE RD AT I-71

REFER TO SHEET 206 FOR CONSTRUCTION PLAN DETAILS

LAYER 2 ETHERNET SWITCH — **Ports**

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6	7	8

BLUE TUBE
ORANGE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'B' - SEE SHEET 994A TO SPLICE ENCLOSURE

PROPOSED CCTV

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

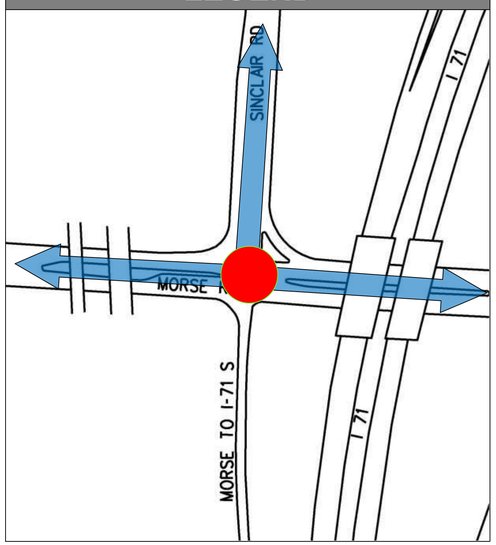
24 STRAND FIBER OPTIC DROP CABLE

TO CCTV CABINET MORSE RD AT I-71
MATCHLINE 'C' - SEE SHEET 994A

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



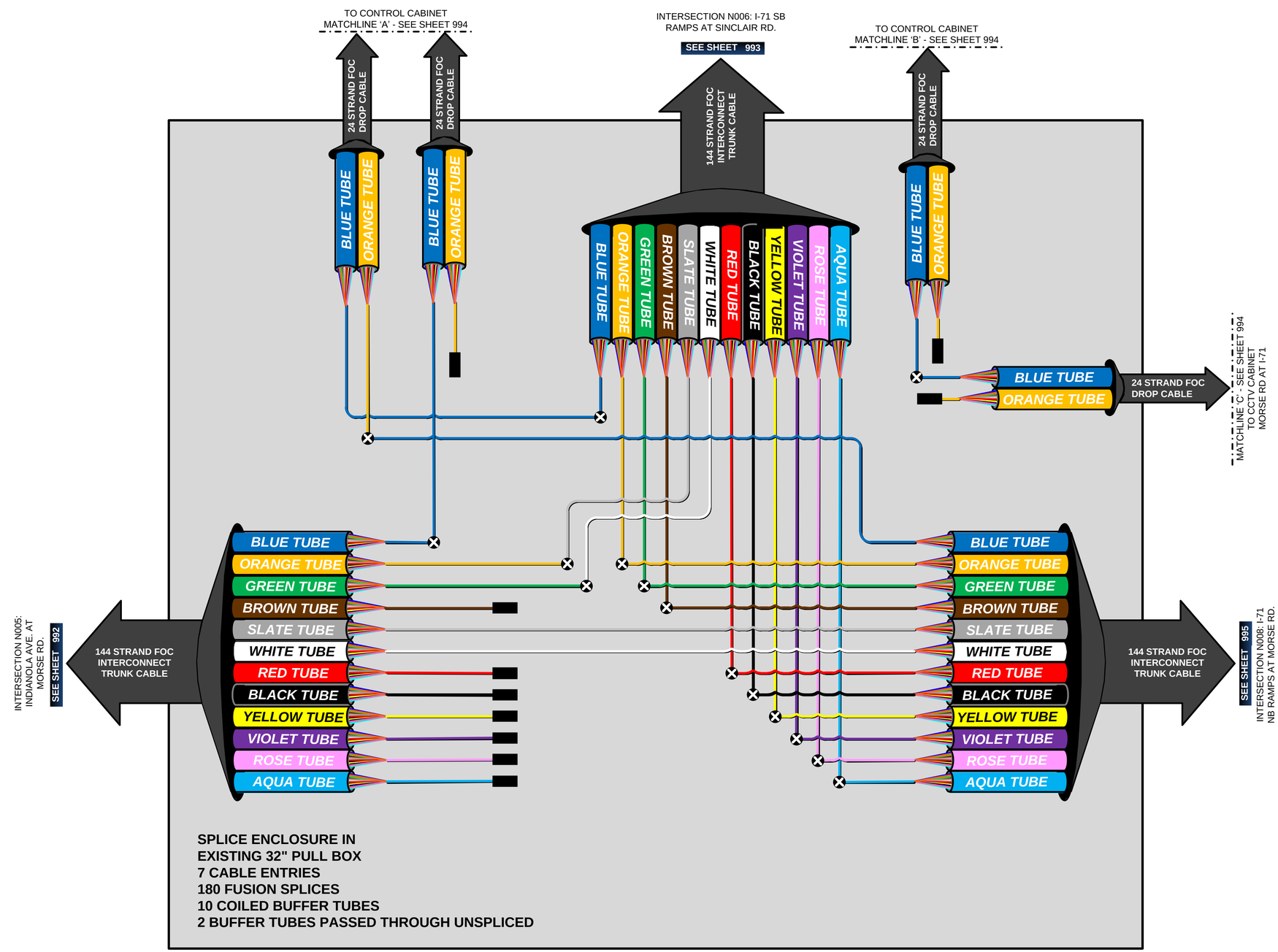
INTERSECTION N007

REFER TO SHEET 206 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N007: MORSE RD. AT SINCLAIR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



PID NUMBER 13034
2762 DR. E

INTERSECTION N007: MORSE RD. AT SINCLAIR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

994A
1107

INTERSECTION N007

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N009: MORSE RD. AT SANDY LANE RD.
SEE SHEET 996

PORT 6: INTERSECTION N006: I-71 SB RAMPS AT SINCLAIR RD.
SEE SHEET 993

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SEE SHEET 994
INTERSECTION N007: MORSE RD. AT SINCLAIR RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

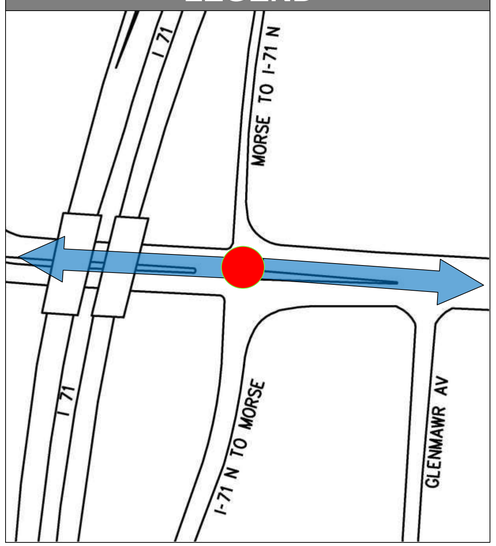
SEE SHEET 1033
INTERSECTION N046: EVANSWOOD DR. AT MORSE RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N008

REFER TO SHEET 207 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N008: I-71 NB RAMPS AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N011: ALMONT DR. AT MORSE RD.
SEE SHEET 998

PORT 6: INTERSECTION N008: I-71 NB RAMPS AT MORSE RD.
SEE SHEET 995

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

SEE SHEET 1033

INTERSECTION N046: EVANSWOOD DR. AT MORSE RD.

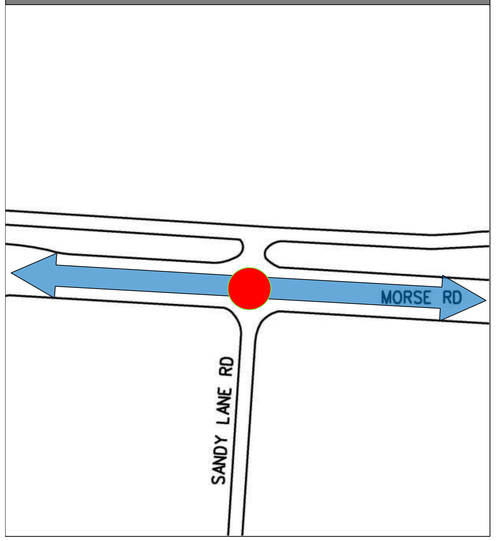
SEE SHEET 997

INTERSECTION N010: MAIZE RD. AT MORSE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N009

REFER TO SHEET 214 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N009: MORSE RD. AT SANDY LANE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3165: GARDEN RD. AT MAIZE RD.
SEE SHEET 896

PORT 6: INTERSECTION 3029: COOKE RD. AT MAIZE RD.
SEE SHEET 879

PORT 7: INTERSECTION N012: KARL RD. AT MORSE RD.
SEE SHEET 999

PORT 8: INTERSECTION N046: EVANSWOOD DR. AT MORSE RD.
SEE SHEET 1033

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

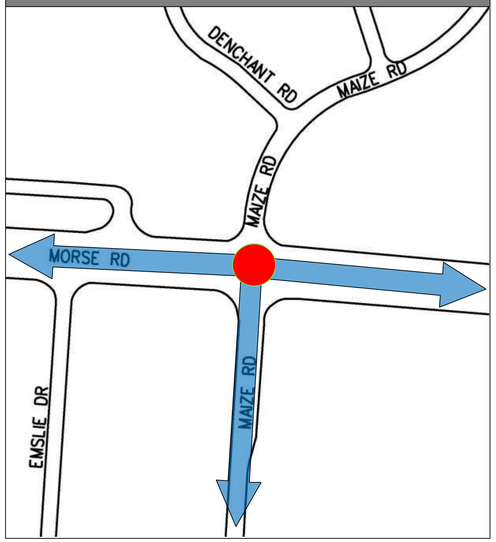
MATCHLINE 'A' - SEE SHEET 997A
TO CONTROL CABINET

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N010
REFER TO SHEET 215 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N010: MAIZE RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 997

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

24 STRAND FOC DROP CABLE
BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

INTERSECTION N009: MORSE RD.
AT SANDY LANE RD.
SEE SHEET 996

144 STRAND FOC INTERCONNECT TRUNK CABLE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 998
INTERSECTION N011:
ALMONT DR. AT MORSE RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SPLICE ENCLOSURE IN
EXISTING 32" PULL BOX
5 CABLE ENTRIES
108 FUSION SPLICES
6 COILED BUFFER TUBES
8 BUFFER TUBES PASSED THROUGH UNSPLICED

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 896

INTERSECTION 3165: GARDEN RD.
AT MAIZE RD.

PID NUMBER 13034
2762 DR. E

INTERSECTION N010: MAIZE RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

997A
1107

INTERSECTION N010

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N013: MORSE RD. AT NORTHLAND RIDGE DR.
SEE SHEET 1000

PORT 6: INTERSECTION N009: MORSE RD. AT SANDY LANE RD.
SEE SHEET 996

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

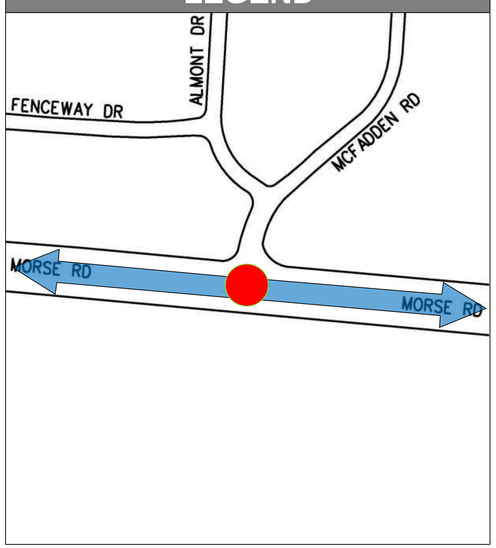
SEE SHEET 997
INTERSECTION N010: MAIZE RD. AT MORSE RD.

SEE SHEET 999
INTERSECTION N012: KARL RD. AT MORSE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N011

REFER TO SHEET 217 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N011: ALMONT DR. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 6 7 8

5 LH

6 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N014: MORSE RD. AT TAMARACK BLVD.
SEE SHEET 1001

PORT 6: INTERSECTION N010: MAIZE RD. AT MORSE RD.
SEE SHEET 997

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232 #2

EXISTING:
ECONOLITE-ASC/2S-2100
TRAFFIC
SIGNAL
CONTROLLER

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 999A
TO CONTROL CABINET

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

EXISTING CCTV CABINET #1 KARL RD AT MORSE RD (SW)

REFER TO SHEET218 FOR CONSTRUCTION PLAN DETAILS

CCTV FIELD BOX

8P8C MALE/FEMALE CONNECTION

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

ANALOG/IP COMPOSITE CCTV CABLE

PROPOSED CCTV

EXISTING CCTV CABINET #2 KARL RD AT MORSE RD (SE)

REFER TO SHEET 218 FOR CONSTRUCTION PLAN DETAILS

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 6 7 8

CCTV FIELD BOX

8P8C MALE/FEMALE CONNECTION

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

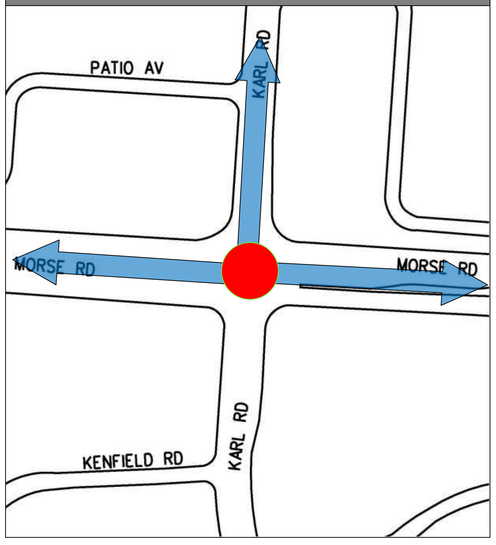
ANALOG/IP COMPOSITE CCTV CABLE

PROPOSED CCTV

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N012

REFER TO SHEET 218 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N012: KARL RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION N020: KARL RD. AT
RED ROBIN RD.

SEE SHEET 1007

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 999

24 STRAND FOC DROP CABLE

24 STRAND FOC DROP CABLE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SPLICE ENCLOSURE IN EXISTING 32" PULL BOX
6 CABLE ENTRIES
312 FUSION SPLICES
7 COILED BUFFER TUBES
2 BUFFER TUBES PASSED THROUGH UNSPLICED

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

288 STRAND FOC DROP CABLE

TO CFD STATION #24

INTERSECTION N011:
ALMONT DR. AT MORSE RD.

SEE SHEET 998

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 1000

INTERSECTION N013:
MORSE RD. AT
NORTHLAND RIDGE DR.

INTERSECTION N012

PID NUMBER 13034
2762 DR. E

INTERSECTION N012: KARL RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 6 7 8

5 LH, 6 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N015: HEATON RD. AT MORSE RD.
SEE SHEET 1002

PORT 6: INTERSECTION N011: ALMONT DR. AT MORSE RD.
SEE SHEET 998

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SEE SHEET 999
INTERSECTION N012: KARL RD. AT MORSE RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

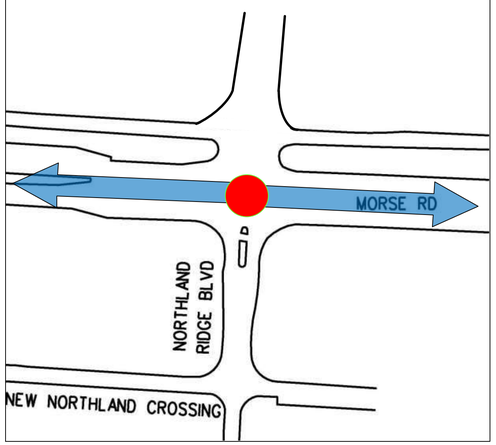
SEE SHEET 1001
INTERSECTION N014: MORSE RD. AT TAMARACK BLVD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N013

REFER TO SHEET 219 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N013: MORSE RD. AT NORTHLAND RIDGE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N016: MORSE RD. AT NORTHTOWNE BLVD. & WALFORD ST.
SEE SHEET 1003

PORT 6: INTERSECTION N012: KARL RD. AT MORSE RD.
SEE SHEET 999

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

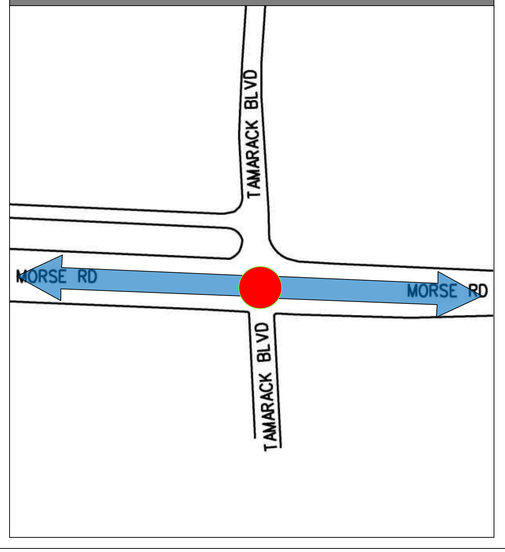
SEE SHEET 1000
INTERSECTION N013: MORSE RD. AT NORTHLAND RIDGE DR.

SEE SHEET 1002
INTERSECTION N015: HEATON RD. AT MORSE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N014

REFER TO SHEET 220 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N014: MORSE RD. AT TAMARACK BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1001
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N017: MALIN ST. AT MORSE RD.
SEE SHEET 1004

PORT 6: INTERSECTION N013: MORSE RD. AT NORTHLAND RIDGE DR.
SEE SHEET 1000

EXISTING:
ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/ 100Mbs
ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

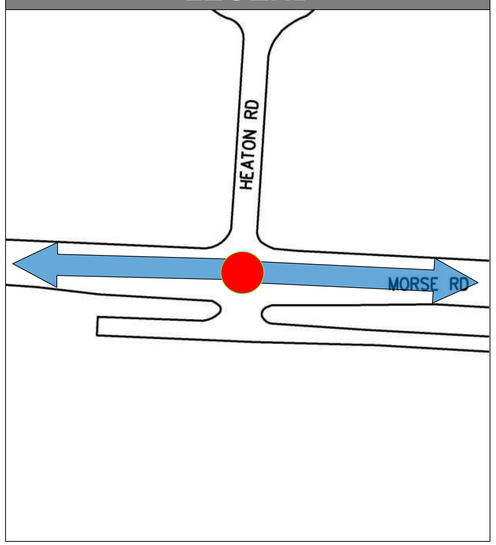
SEE SHEET 1001
INTERSECTION N014: MORSE RD. AT TAMARACK BLVD.

SEE SHEET 1003
INTERSECTION N016: MORSE RD. AT NORTHTOWNE BLVD. & WALFORD ST.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N015

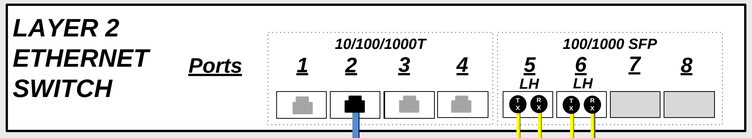
REFER TO SHEET 221 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N015: HEATON RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

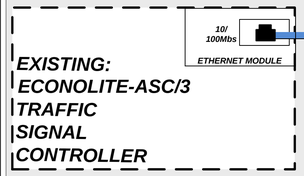


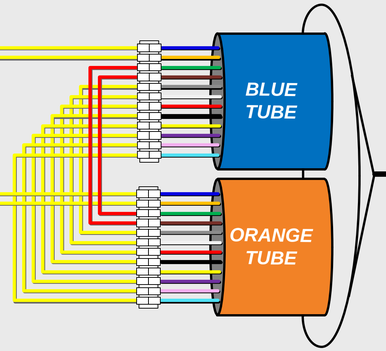
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.
SEE SHEET 1027

PORT 6: INTERSECTION N014: MORSE RD. AT TAMARACK BLVD.
SEE SHEET 1001

PATCH PANEL ENCLOSURE – 24 TERMINATION

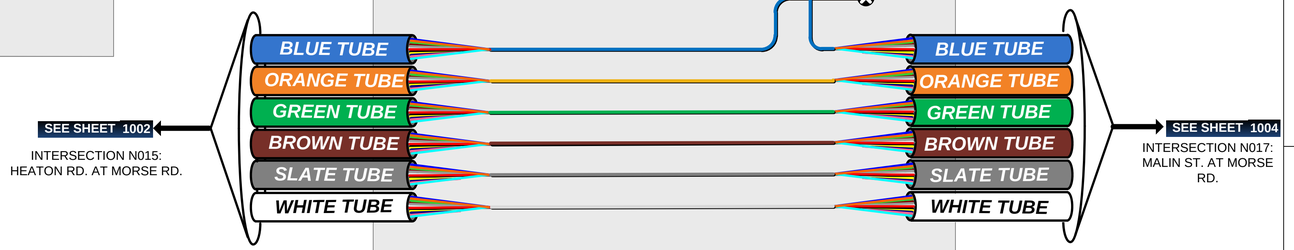




24 STRAND FIBER OPTIC DROP CABLE



SPLICE ENCLOSURE



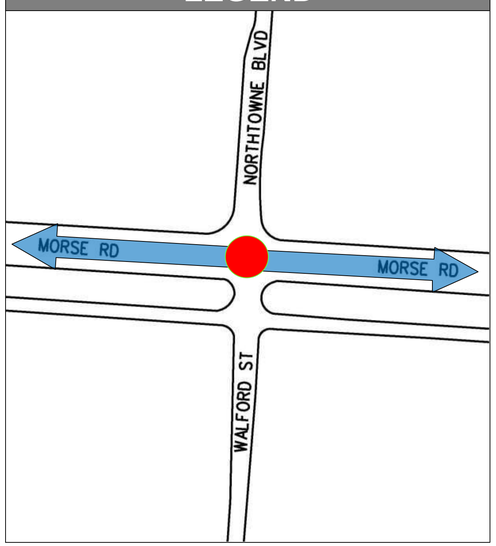
SEE SHEET 1002
INTERSECTION N015:
HEATON RD. AT MORSE RD.

SEE SHEET 1004
INTERSECTION N017:
MALIN ST. AT MORSE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N016

REFER TO SHEET 223 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N016: MORSE RD. AT NORTHTOWNE BLVD. & WALFORD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3290: CHESFORD RD. AT MORSE RD.
SEE SHEET 910

PORT 6: INTERSECTION N015: HEATON RD. AT MORSE RD.
SEE SHEET 1002

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1003
INTERSECTION N016: MORSE RD. AT NORTHTOWNE BLVD. & WALFORD ST.

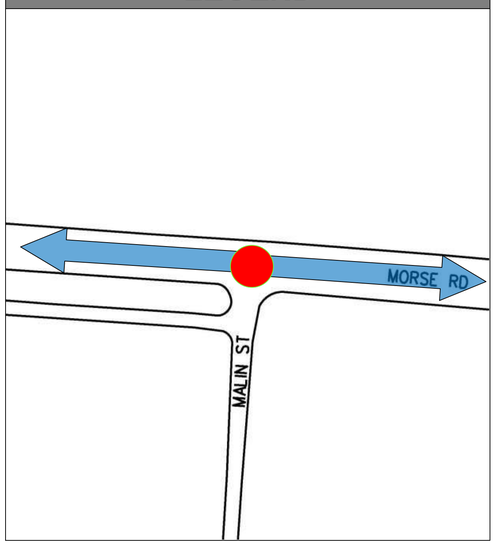
SEE SHEET 1027
INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N017
REFER TO SHEET 224 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N017: MALIN ST. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N019: LINCOLN AVE. AT SINCLAIR RD.
SEE SHEET 1006

PORT 6: PROPOSED COMMUNICATION NODE 071116.2: I-71 AT MORSE RD.
SEE SHEET 1080

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N019: LINCOLN AVE. AT SINCLAIR RD.
SEE SHEET 1006

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

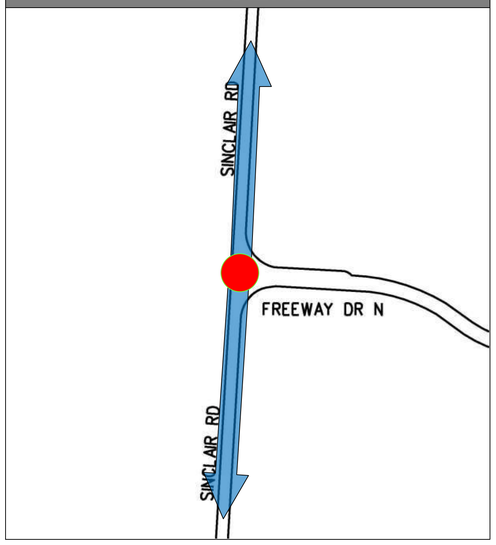
SEE SHEET 1081

PROPOSED COMMUNICATION NODE
071116.2: I-71 AT MORSE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N018

REFER TO SHEET 211 FOR CONSTRUCTION PLAN DETAILS

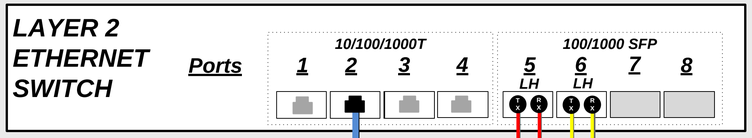
PID NUMBER 13034
2762 DR. E

INTERSECTION N018: FREEWAY DR. NORTH AT SINCLAIR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1005
1107

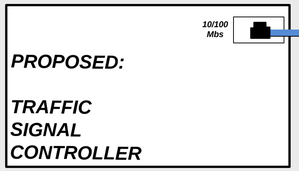
TRAFFIC SIGNAL CABINET ASSEMBLY



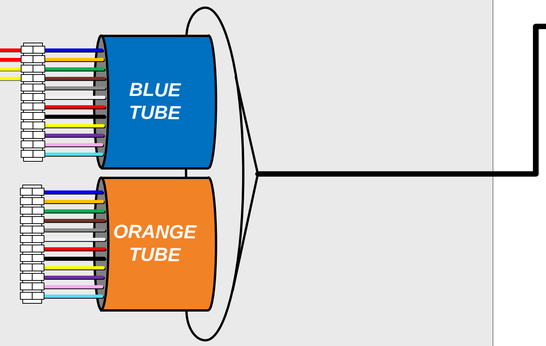
ETHERNET SWITCH PORT DESTINATION

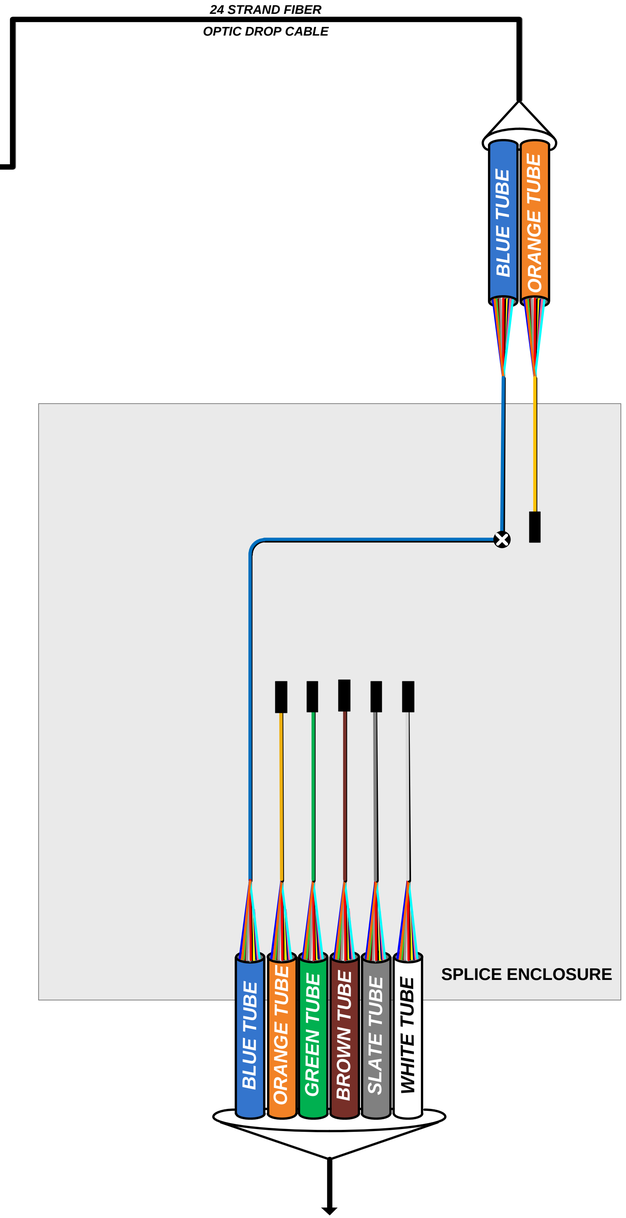
PORT 5: INTERSECTION N018: FREEWAY DR. NORTH AT SINCLAIR RD.
SEE SHEET 1005

PORT 6: PROPOSED COMMUNICATION NODE 071116.2: I-71 AT MORSE RD.
SEE SHEET 1080



PATCH PANEL ENCLOSURE – 24 TERMINATION

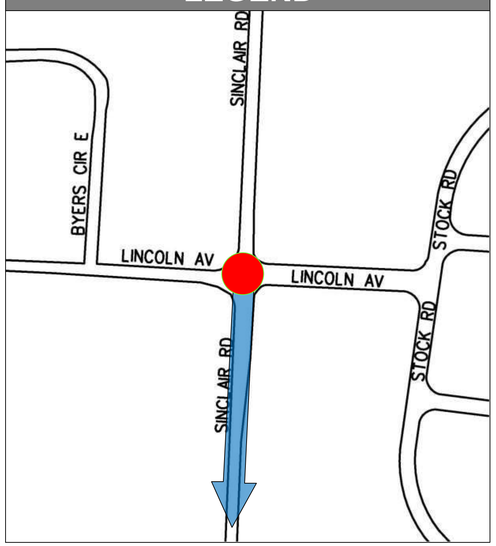




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 1005

INTERSECTION N018: FREEWAY DR.
NORTH AT SINCLAIR RD.

INTERSECTION N019

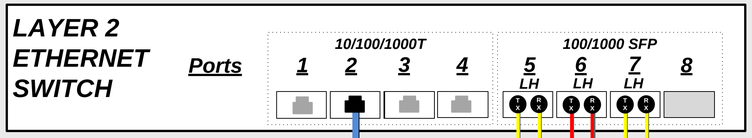
REFER TO SHEET 212 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N019: LINCOLN AVE. AT SINCLAIR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

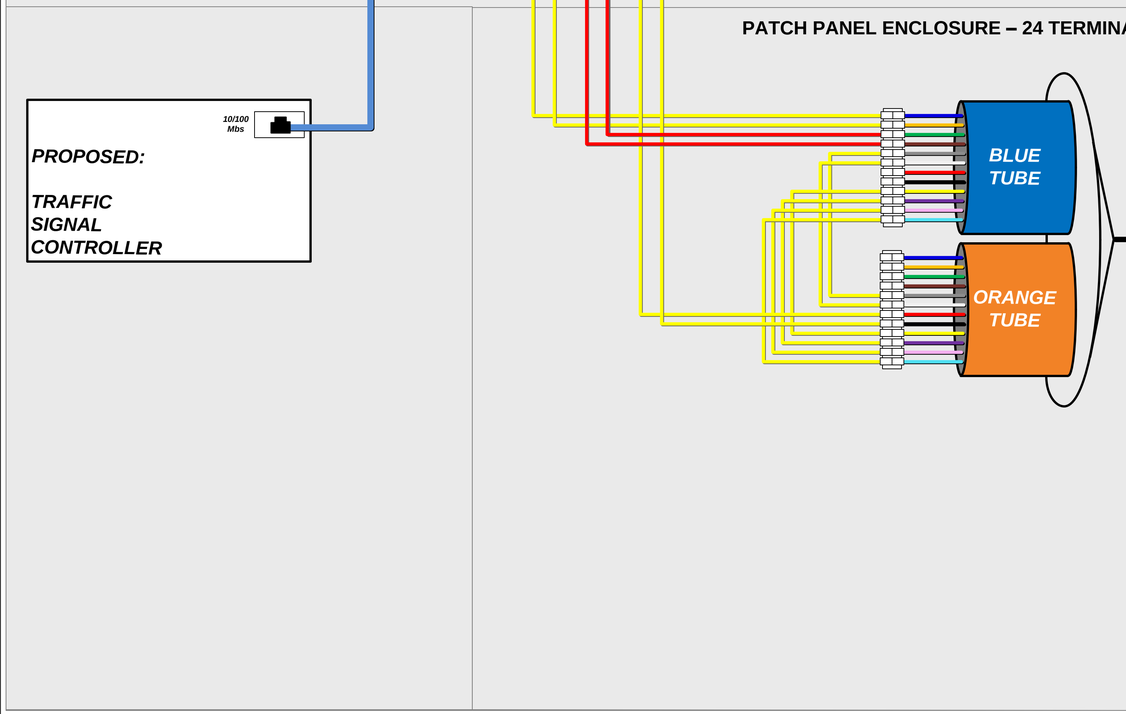


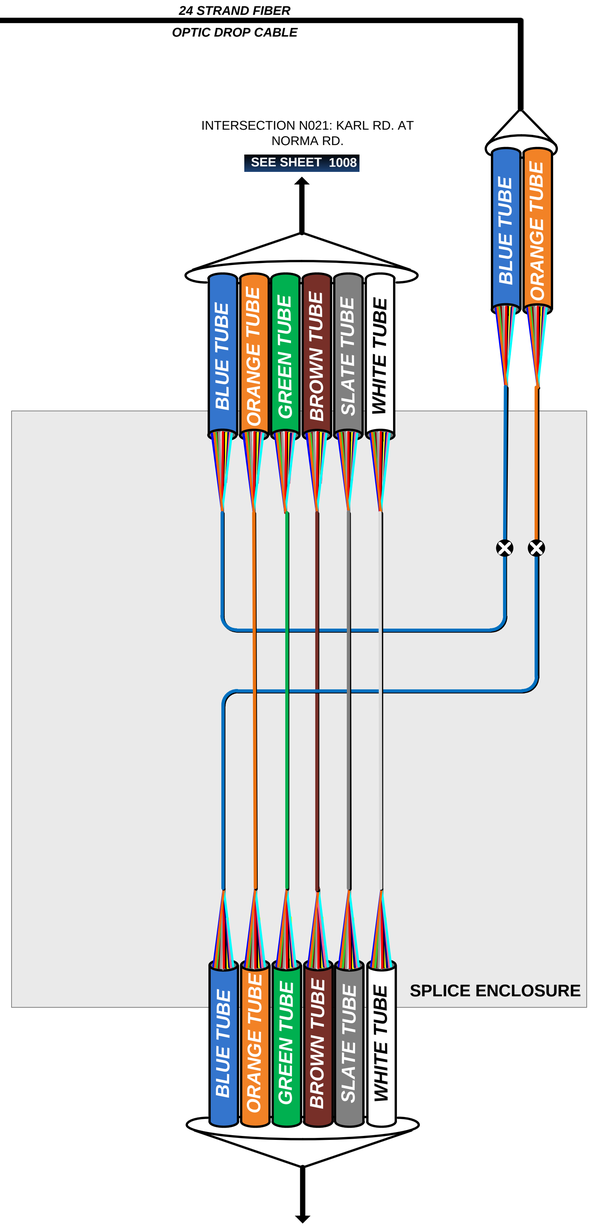
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N022: KARL RD. AT PENWORTH DR.
SEE SHEET 1009

PORT 6: INTERSECTION N021: KARL RD. AT NORMA RD.
SEE SHEET 1008

PORT 7: PROPOSED COMMUNICATION NODE 071116.2: I-71 AT MORSE RD.
SEE SHEET 1080





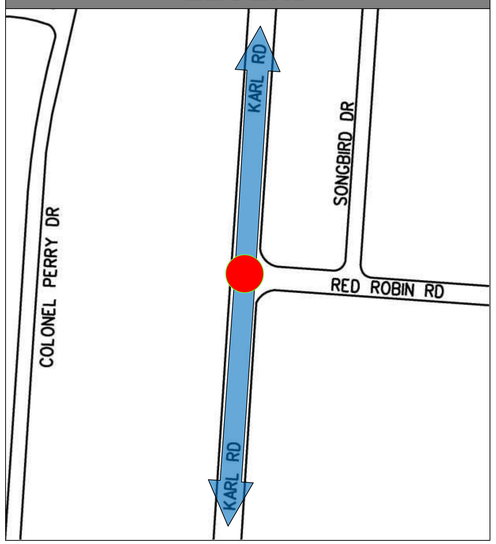
144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N020

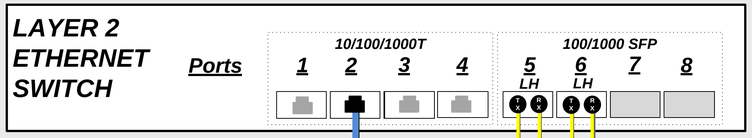
REFER TO SHEET 227 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N020: KARL RD. AT RED ROBIN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

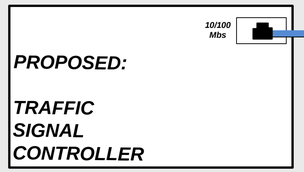
TRAFFIC SIGNAL CABINET ASSEMBLY



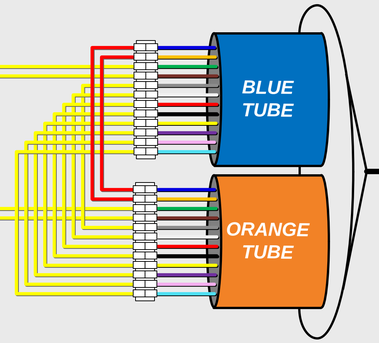
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N023: KARL RD. AT SANDALWOOD PL.
SEE SHEET 1010

PORT 6: INTERSECTION N020: KARL RD. AT RED ROBIN RD.
SEE SHEET 1007



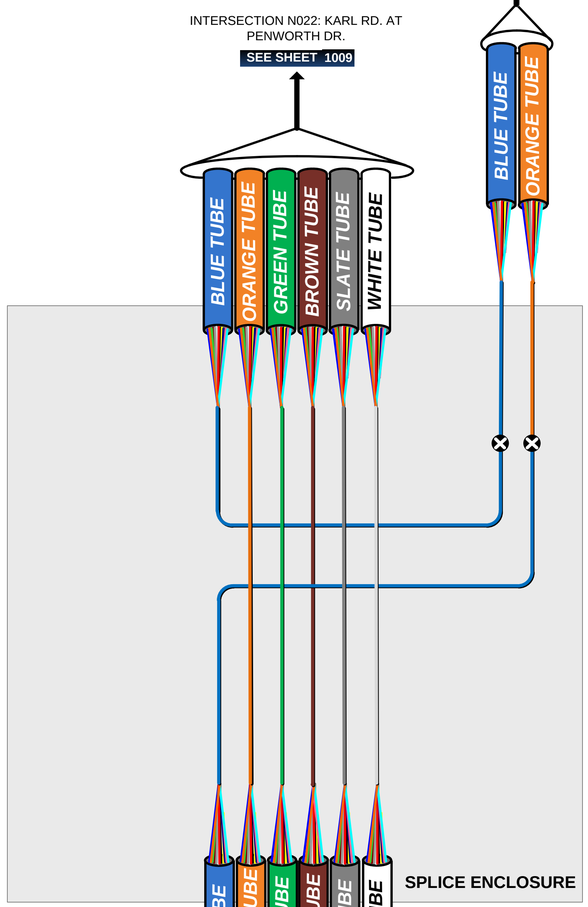
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N022: KARL RD. AT PENWORTH DR.

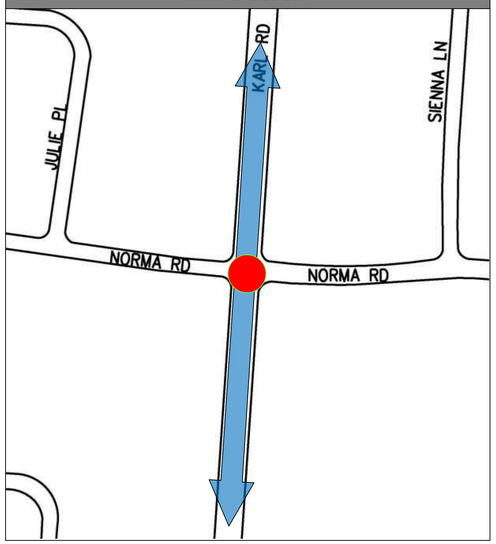
SEE SHEET 1009



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 1007

INTERSECTION N020: KARL RD. AT RED ROBIN RD.

INTERSECTION N021

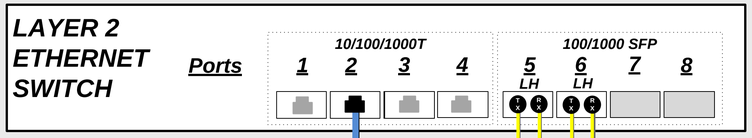
REFER TO SHEET 229 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N021: KARL RD. AT NORMA RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

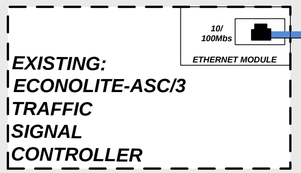
TRAFFIC SIGNAL CABINET ASSEMBLY



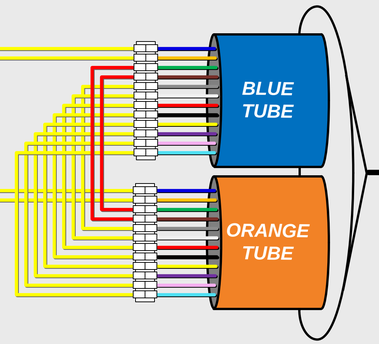
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N058: KARL RD. AT KARL RD. LIBRARY
SEE SHEET 1045

PORT 6: INTERSECTION N020: KARL RD. AT RED ROBIN RD.
SEE SHEET 1007



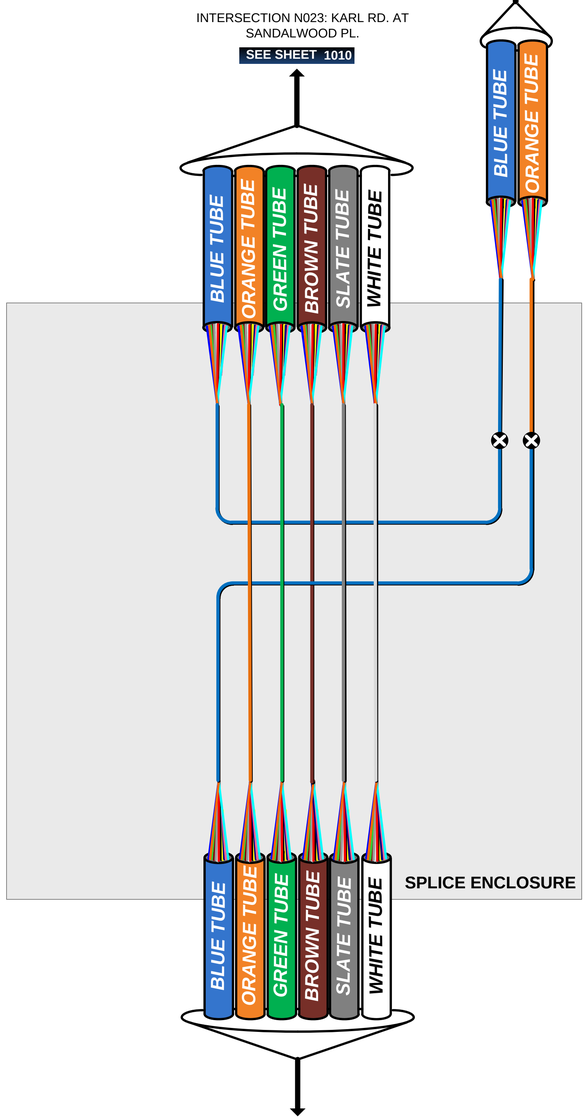
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N023: KARL RD. AT SANDALWOOD PL.

SEE SHEET 1010



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

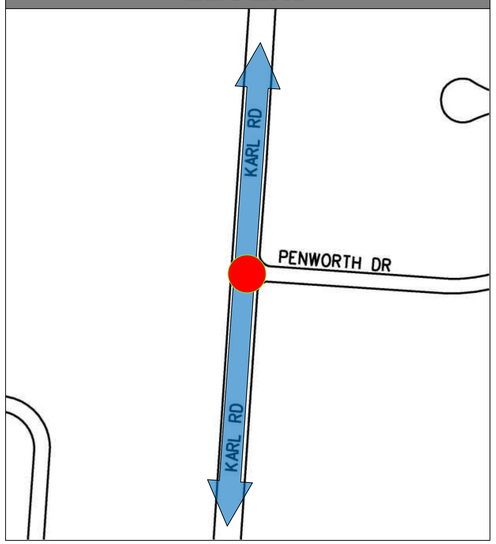
SEE SHEET 1008

INTERSECTION N021: KARL RD. AT NORMA RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N022

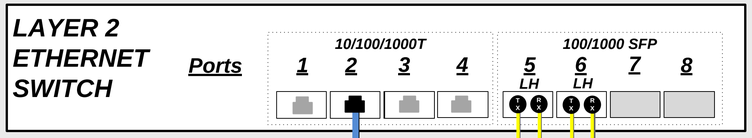
REFER TO SHEET 230 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N022: KARL RD. AT PENWORTH DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

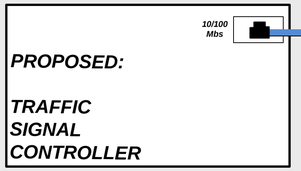
TRAFFIC SIGNAL CABINET ASSEMBLY



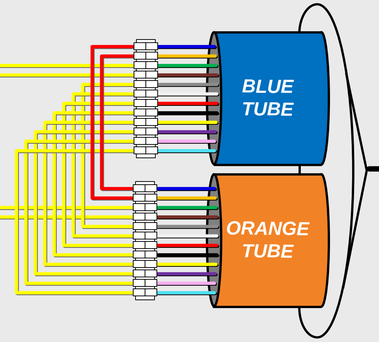
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N024: GRANVILLE CENTER DR. & KARL CT. AT KARL RD.
SEE SHEET 1011

PORT 6: INTERSECTION N021: KARL RD. AT NORMA RD.
SEE SHEET 1008



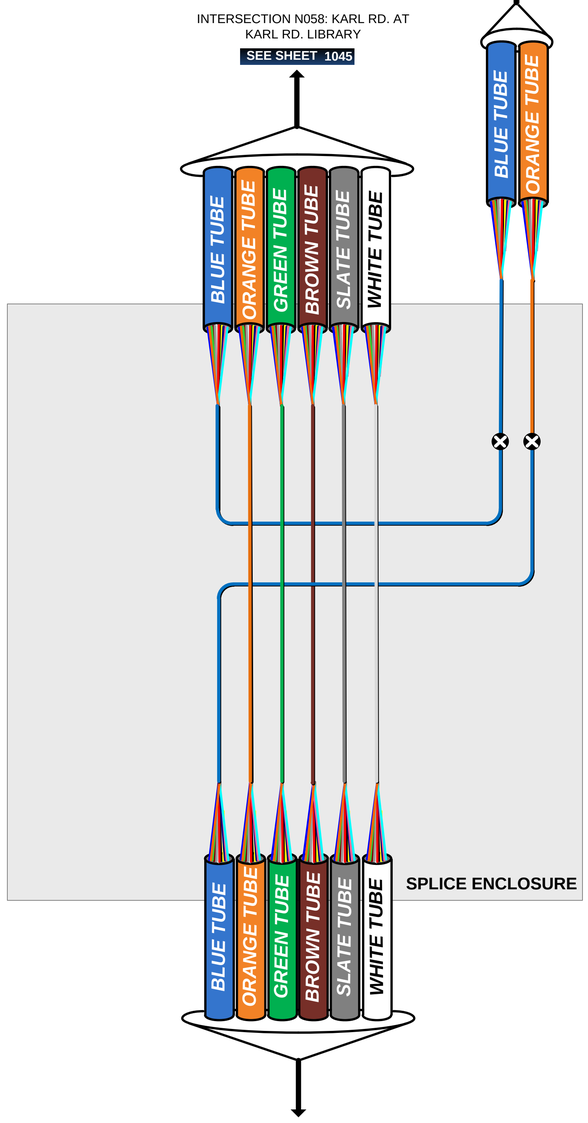
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N058: KARL RD. AT KARL RD. LIBRARY

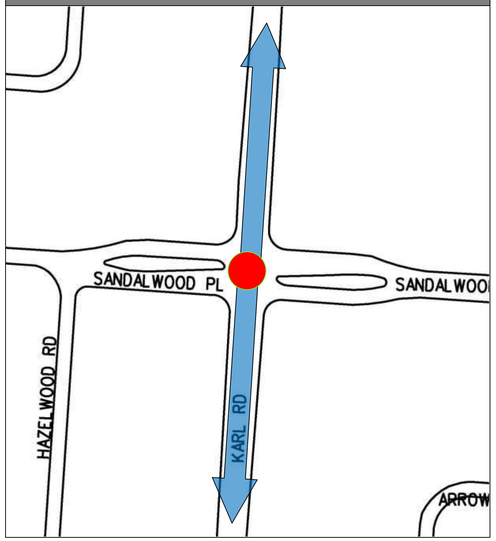
SEE SHEET 1045



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 1009

INTERSECTION N022: KARL RD. AT PENWORTH DR.

INTERSECTION N023

REFER TO SHEET 231 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N023: KARL RD. AT SANDALWOOD PL.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.
SEE SHEET 1018

PORT 6: INTERSECTION N023: KARL RD. AT SANDALWOOD PL.
SEE SHEET 1010

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.
SEE SHEET 1018

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

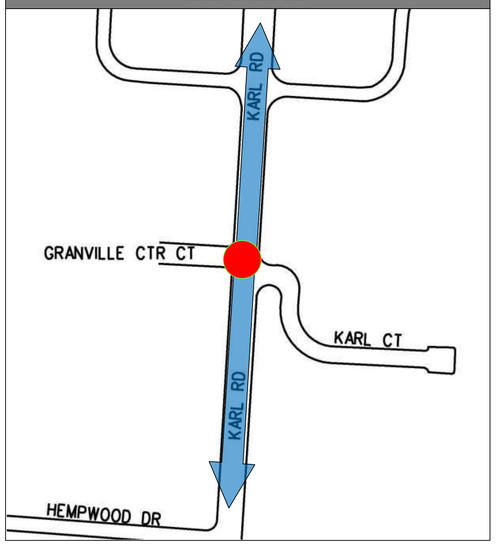
BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 1045
INTERSECTION N058: KARL RD. AT KARL RD. LIBRARY

INTERSECTION N024

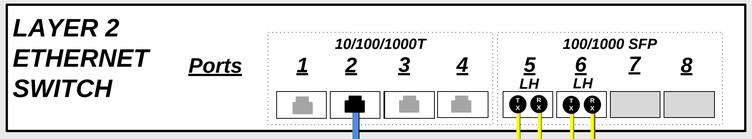
REFER TO SHEET 232 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N024: GRANVILLE CENTER DR. & KARL CT. AT KARL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

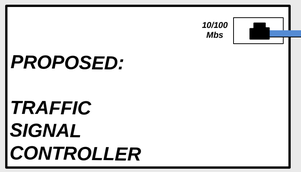
TRAFFIC SIGNAL CABINET ASSEMBLY



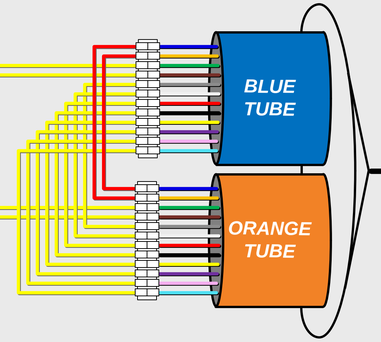
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.
SEE SHEET 1023

PORT 6: INTERSECTION N060: BRETTON WOODS DR. & EDMONTON RD. AT CLEVELAND AVE.
SEE SHEET 1047

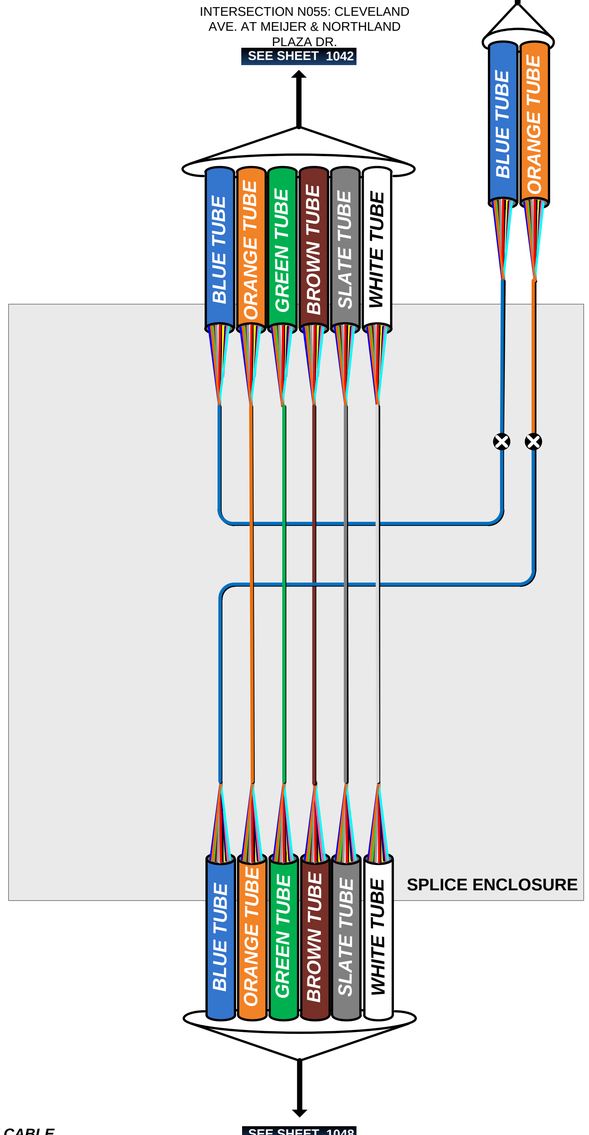


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N055: CLEVELAND AVE. AT MEIJER & NORTHLAND PLAZA DR.
SEE SHEET 1042



144-FIBER TRUNK CABLE

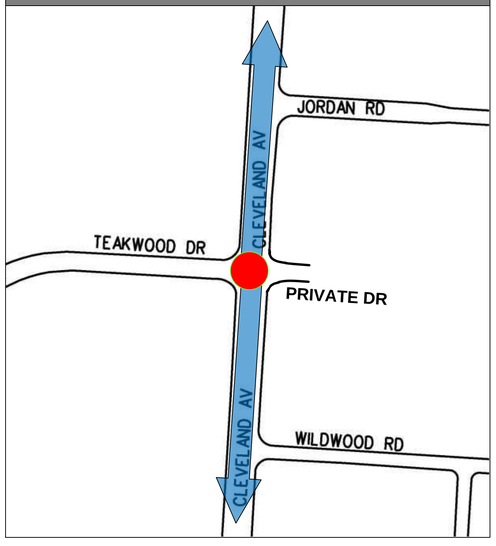
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 1048
INTERSECTION N061: CLEVELAND AVE. AT WALLCREST BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N025

REFER TO SHEET 236 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N025: CLEVELAND AVE. AT TEAKWOOD DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1012
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 6 7 8

5 LH (TX / RX)

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N027: BUSCH BLVD. AT DUBLIN GRANVILLE RD.
SEE SHEET 1014

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

WHITE TUBE

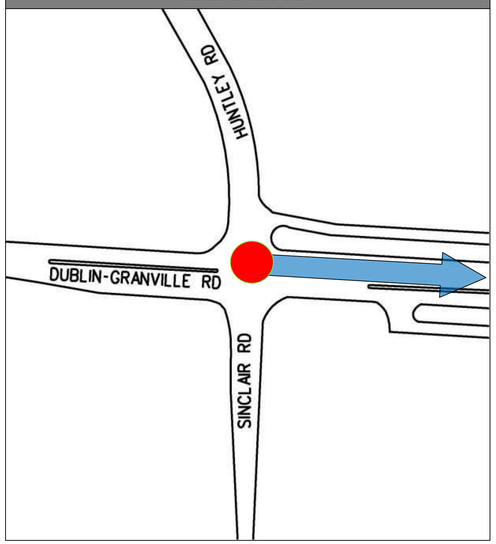
SEE SHEET 1014
INTERSECTION N027:
BUSCH BLVD. AT
DUBLIN GRANVILLE RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N026

REFER TO SHEET 213 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N026: DUBLIN GRANVILLE RD. AT HUNTLEY RD. & SINCLAIR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1013
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N054: ATLANTIC AVE. AT BUSCH BLVD.
SEE SHEET 1041

PORT 6: INTERSECTION N029: DUBLIN GRANVILLE RD. AT I 71 NB RAMPS
SEE SHEET 1016

PORT 7: INTERSECTION N026: DUBLIN GRANVILLE RD. AT HUNTLEY RD. & SINCLAIR RD.
SEE SHEET 1013

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 1014A
TO SPLICE ENCLOSURE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

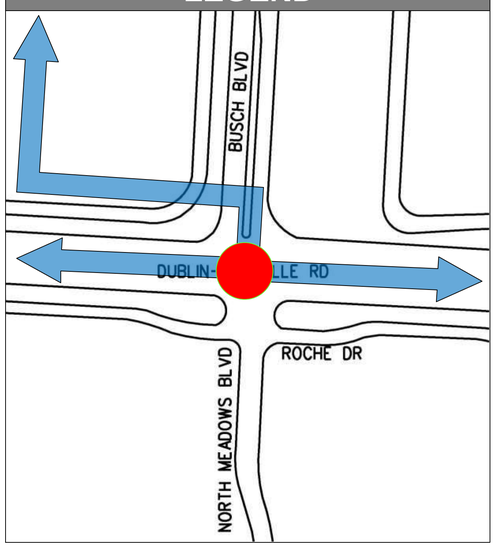
ORANGE TUBE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

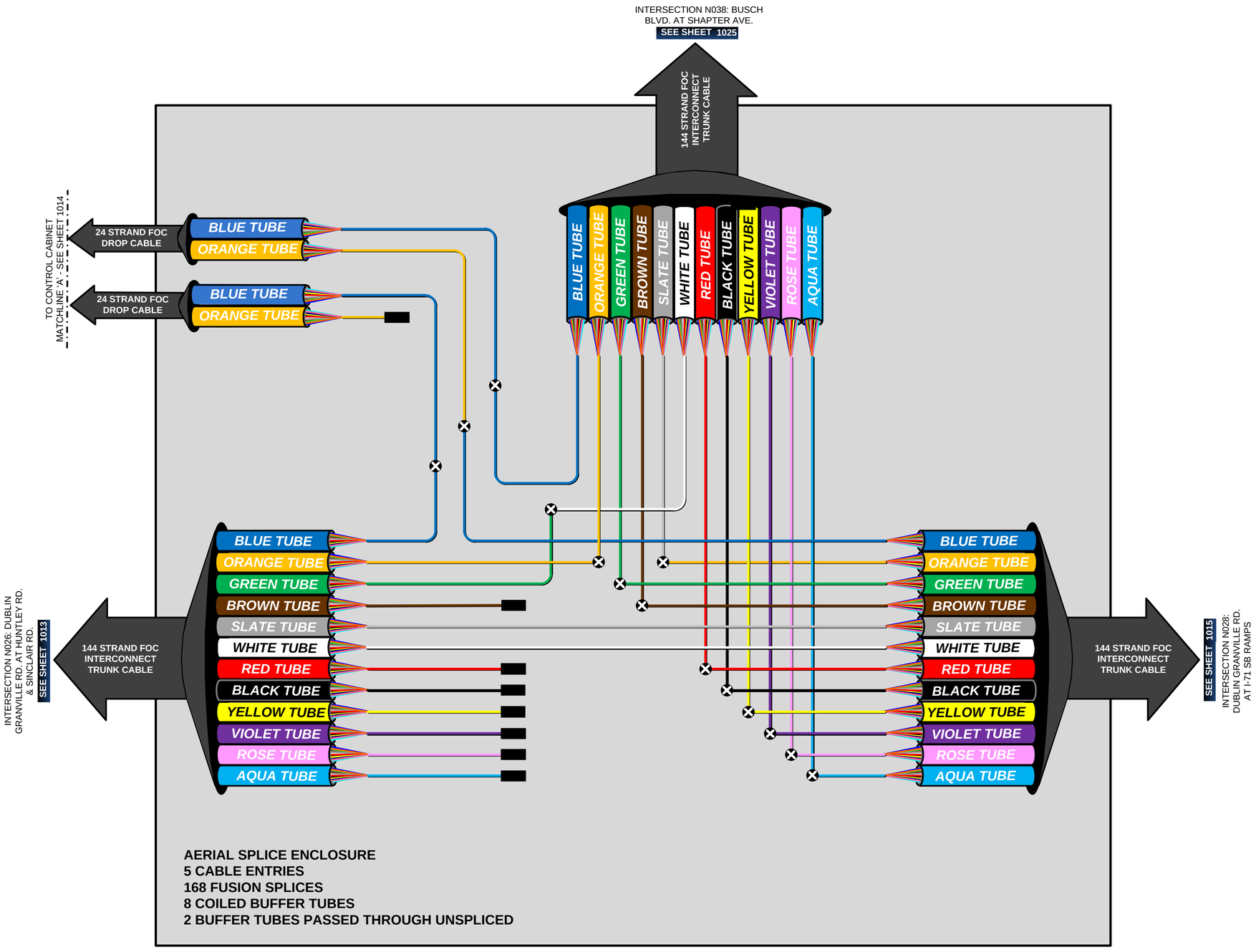
INTERSECTION N027
REFER TO SHEET 241 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N027: BUSCH BLVD. AT DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1014
1107



PID NUMBER 13034
2762 DR. E

INTERSECTION N027: BUSCH BLVD. AT DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1014 A
1107

INTERSECTION N027

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports 1 2 3 4 — 10/100/1000T; 5 6 7 8 — 100/1000 SFP (5 LH, 6 LH, 7 LH)

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N030: AMBLESIDE DR. & SATINWOOD DR. AT DUBLIN GRANVILLE RD.
SEE SHEET 1017

PORT 6: INTERSECTION N038: BUSCH BLVD. AT SHAPTER AVE.
SEE SHEET 1025

PORT 7: EXISTING CCTV: SR-161 AT I-71
SEE THIS SHEET

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

EXISTING CCTV SITE SR-161 AT I-71

REFER TO SHEET 242 FOR CONSTRUCTION PLAN DETAILS

LAYER 2 ETHERNET SWITCH

Ports 1 2 3 4 5 6 7 8 — **SFP Modules** — 5 LH

BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE 24 TERMINATION

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE

BLUE TUBE		BLUE TUBE
ORANGE TUBE		ORANGE TUBE
GREEN TUBE		GREEN TUBE
BROWN TUBE		BROWN TUBE
SLATE TUBE		SLATE TUBE
WHITE TUBE		WHITE TUBE

SEE SHEET 1014
INTERSECTION N027: BUSCH BLVD. AT DUBLIN GRANVILLE RD.

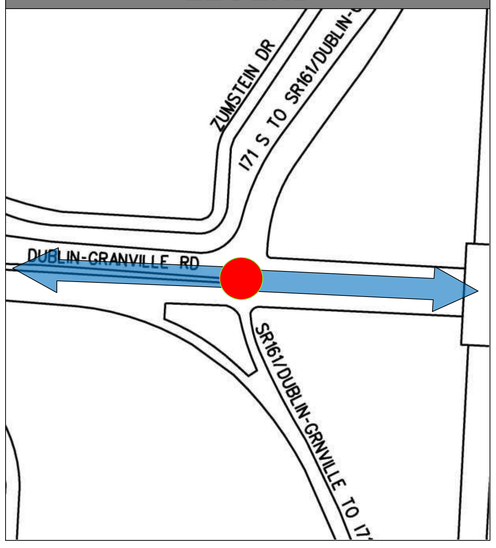
SEE SHEET 1016
INTERSECTION N029: DUBLIN GRANVILLE RD. AT I 71 NB RAMPS

144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N028

REFER TO SHEET 242 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N028: DUBLIN GRANVILLE RD. AT I-71 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.
SEE SHEET 1018

PORT 6: INTERSECTION N027: BUSCH BLVD. AT DUBLIN GRANVILLE RD.
SEE SHEET 1014

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1015
INTERSECTION N028: DUBLIN GRANVILLE RD. AT I-71 SB RAMPS

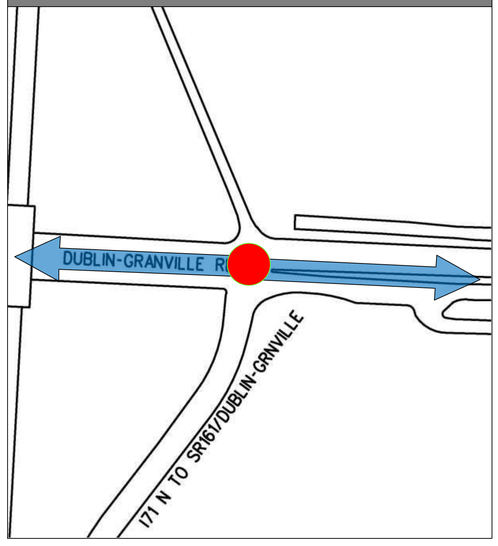
SEE SHEET 1017
INTERSECTION N030: AMBLESIDE DR. & SATINWOOD DR. AT DUBLIN GRANVILLE RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N029

REFER TO SHEET 243 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N029: DUBLIN GRANVILLE RD. AT I 71 NB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N032: DUBLIN GRANVILLE RD. AT SHARON WOODS BLVD. & TAMARACK BLVD.
SEE SHEET 1019

PORT 6: INTERSECTION N028: DUBLIN GRANVILLE RD. AT I-71 SB RAMPS
SEE SHEET 1015

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1016
INTERSECTION N029: DUBLIN GRANVILLE RD. AT I 71 NB RAMPS

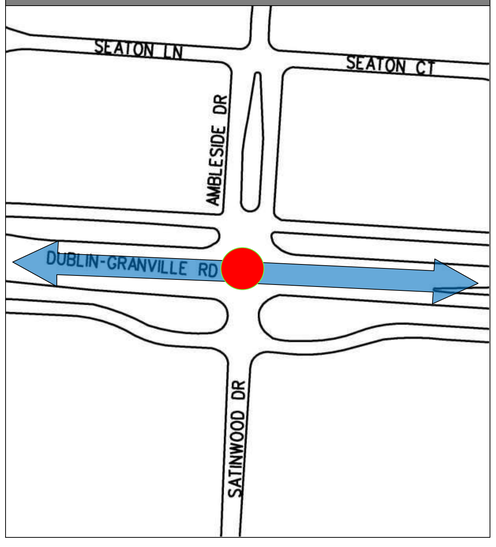
SEE SHEET 1018
INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N030

REFER TO SHEET 244 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N030: AMBLESIDE DR. & SATINWOOD DR. AT DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1017
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N033: BEECHCROFT RD. AT DUBLIN GRANVILLE RD.
SEE SHEET 1020

PORT 6: INTERSECTION N058: KARL RD. AT KARL RD. LIBRARY
SEE SHEET 1045

PORT 7: INTERSECTION N024: GRANVILLE CENTER DR. & KARL CT. AT KARL RD.
SEE SHEET 1011

PORT 8: INTERSECTION N029: DUBLIN GRANVILLE RD. AT I 71 NB RAMPS
SEE SHEET 1016

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

MATCHLINE 'A' - SEE SHEET 1018A

EXISTING CCTV SITE SR-161 AT KARL RD

REFER TO SHEET 233 FOR CONSTRUCTION PLAN DETAILS

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

EXISTING CCTV CABINET

COMPOSITE CCTV CABLE

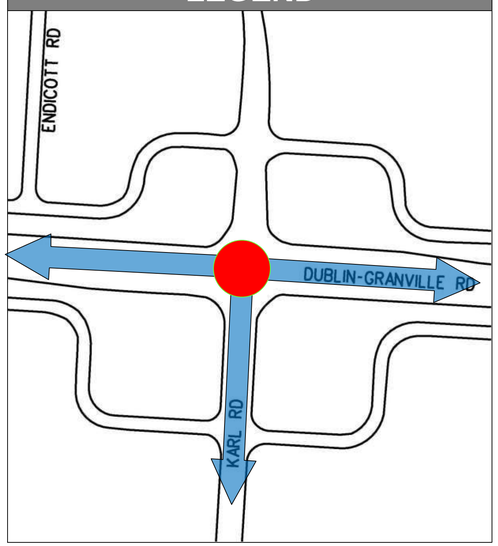
PROPOSED CCTV

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N031

REFER TO SHEET 233 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 1018

24 STRAND FOC DROP CABLE

24 STRAND FOC DROP CABLE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 1017
INTERSECTION N030:
AMBLESIDE DR. & SATINWOOD DR. AT DUBLIN GRANVILLE RD.

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 1019
INTERSECTION N032:
DUBLIN GRANVILLE RD. AT SHARON WOODS BLVD. & TAMARACK BLVD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

AERIAL SPLICE ENCLOSURE
4 CABLE ENTRIES
216 FUSION SPLICES
4 COILED BUFFER TUBES

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 1011
INTERSECTION N024: GRANVILLE CENTER DR. & KARL CT. AT KARL RD.

INTERSECTION N031

CALCULATED ---
CHECKED ---

PID NUMBER 13034
2762 DR. E

INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N034: DUBLIN GRANVILLE RD. AT MAPLE CANYON AVE.
SEE SHEET 1021

PORT 6: INTERSECTION N030: AMBLESIDE DR. & SATINWOOD DR. AT DUBLIN GRANVILLE RD.
SEE SHEET 1017

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1018
INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.

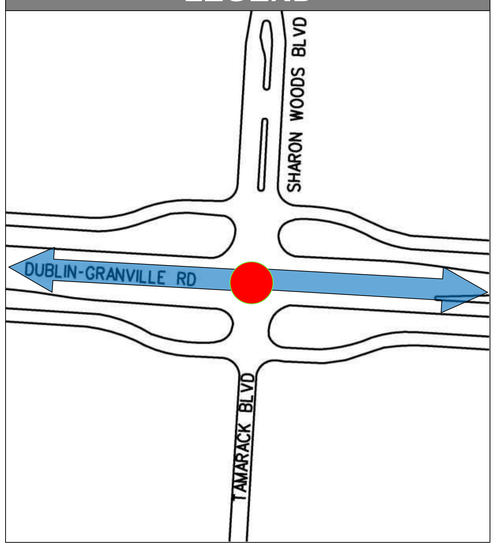
SEE SHEET 1020
INTERSECTION N033: BEECHCROFT RD. AT DUBLIN GRANVILLE RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N032

REFER TO SHEET 245 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

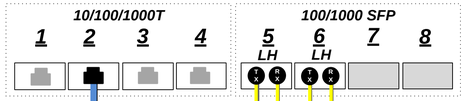
INTERSECTION N032: DUBLIN GRANVILLE RD. AT SHARON WOODS BLVD. & TAMARACK BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports



PROPOSED:

TRAFFIC SIGNAL CONTROLLER

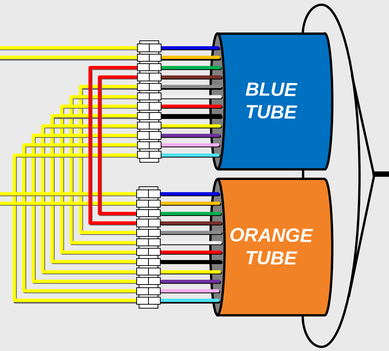
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N035: DUBLIN GRANVILLE RD. AT PARKVILLE ST. & SPRING RUN DR.
SEE SHEET 1022

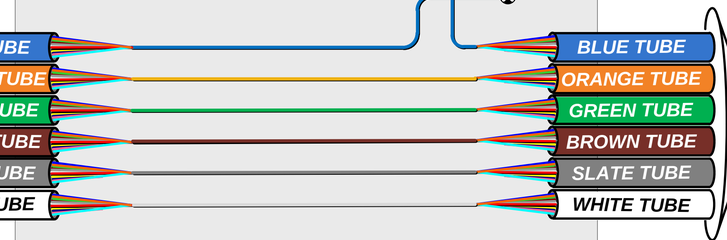
PORT 6: INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.
SEE SHEET 1018

PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE





SEE SHEET 1019

INTERSECTION N032: DUBLIN GRANVILLE RD. AT SHARON WOODS BLVD. & TAMARACK BLVD.

SEE SHEET 1021

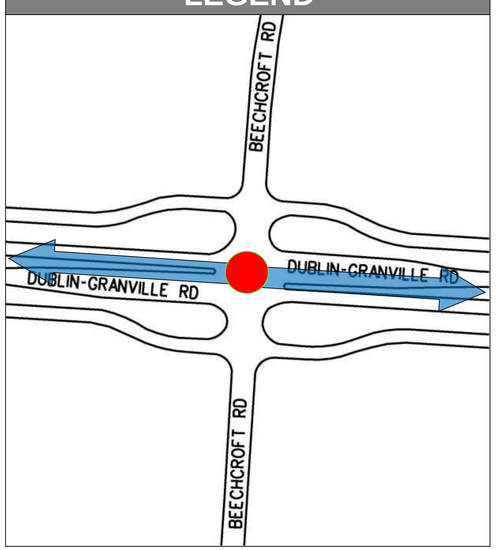
INTERSECTION N034: DUBLIN GRANVILLE RD. AT MAPLE CANYON AVE.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N033

REFER TO SHEET 247 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

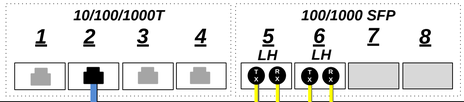
INTERSECTION N033: BEECHCROFT RD. AT DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports



ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.
SEE SHEET 1023

PORT 6: INTERSECTION N032: DUBLIN GRANVILLE RD. AT SHARON WOODS BLVD. & TAMARACK BLVD.
SEE SHEET 1019

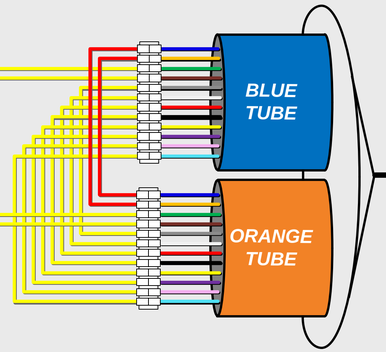
TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

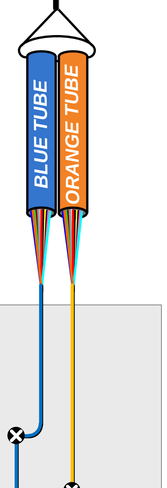
EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

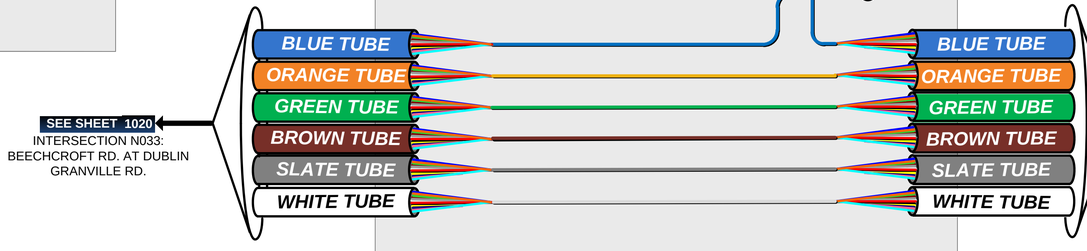
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



SPLICE ENCLOSURE



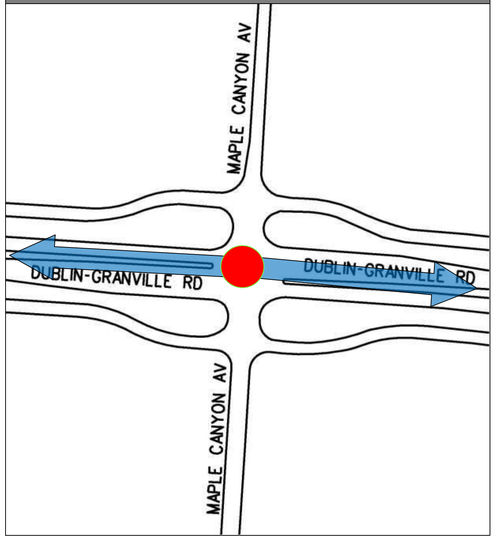
SEE SHEET 1020
INTERSECTION N033: BEECHCROFT RD. AT DUBLIN GRANVILLE RD.

SEE SHEET 1022
INTERSECTION N035: DUBLIN GRANVILLE RD. AT PARKVILLE ST. & SPRING RUN DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N034

REFER TO SHEET 248 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N034: DUBLIN GRANVILLE RD. AT MAPLE CANYON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N039: DUBLIN GRANVILLE RD. AT FOREST HILLS BLVD.
SEE SHEET 1026

PORT 6: INTERSECTION N033: BEECHCROFT RD. AT DUBLIN GRANVILLE RD.
SEE SHEET 1020

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	***BLUE TUBE***
ORANGE TUBE	***ORANGE TUBE***
GREEN TUBE	***GREEN TUBE***
BROWN TUBE	***BROWN TUBE***
SLATE TUBE	***SLATE TUBE***
WHITE TUBE	***WHITE TUBE***

SEE SHEET 1021

INTERSECTION N034: DUBLIN GRANVILLE RD. AT MAPLE CANYON AVE.

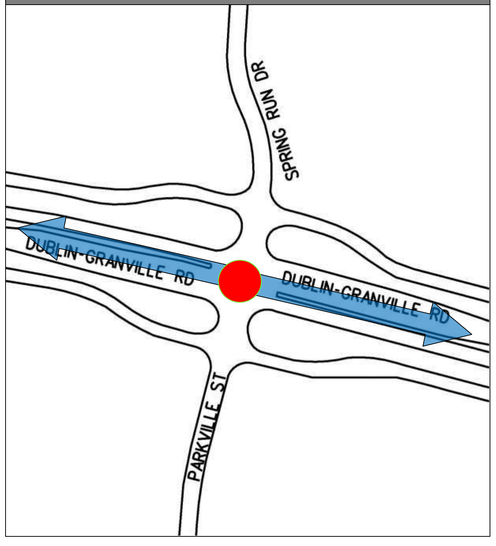
SEE SHEET 1023

INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N035

REFER TO SHEET 249 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N035: DUBLIN GRANVILLE RD. AT PARKVILLE ST. & SPRING RUN DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8 LH

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N052: BLENDON WOODS BLVD.& LAURELWOOD DR. AT CLEVELAND AVE.
SEE SHEET 1039

PORT 6: INTERSECTION N037: DUBLIN GRANVILLE RD. AT PONDEROSA DR.
SEE SHEET 1024

PORT 7: INTERSECTION N025: CLEVELAND AVE. AT TEAKWOOD DR.
SEE SHEET 1012

PORT 8: INTERSECTION N034: DUBLIN GRANVILLE RD. AT MAPLE CANYON AVE.
SEE SHEET 1021

EXISTING CCTV SITE SR-161 AT CLEVELAND AVE

REFER TO SHEET 250 FOR CONSTRUCTION PLAN DETAILS

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

EXISTING CCTV CABINET

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

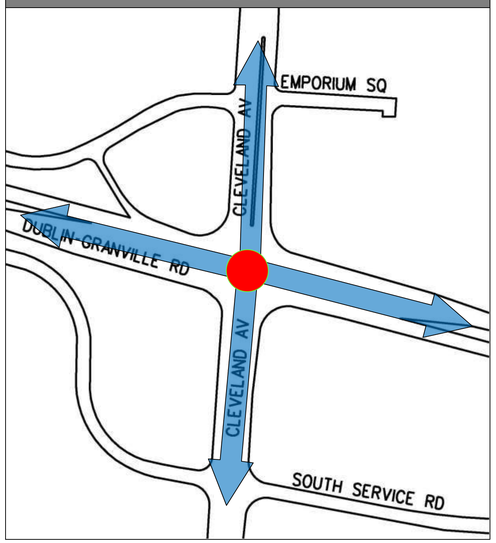
MATCHLINE 'A' - SEE SHEET 1023A

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N036

REFER TO SHEET 250 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

INTERSECTION N053: CLEVELAND AVE. AT COLUMBUS SQUARE DR. & FUJI DR.

SEE SHEET 1040

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 1023

24 STRAND FOC DROP CABLE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC DROP CABLE

BLUE TUBE
ORANGE TUBE

SEE SHEET 1022
INTERSECTION N035: DUBLIN GRANVILLE RD. AT PARKVILLE ST. & SPRING RUN DR.

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 1025
INTERSECTION N039: DUBLIN GRANVILLE RD. AT FOREST HILLS BLVD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

AERIAL SPLICE ENCLOSURE
6 CABLE ENTRIES
300 FUSION SPLICES
2 COILED BUFFER TUBES

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 1042
INTERSECTION N055: CLEVELAND AVE. AT MEIJER & NORTHLAND PLAZA DR.

INTERSECTION N036

CALCULATED ---
CHECKED ---

PID NUMBER 13034
2762 DR. E

INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N039: DUBLIN GRANVILLE RD. AT FOREST HILLS BLVD.
SEE SHEET 1026

PORT 6: INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.
SEE SHEET 1023

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

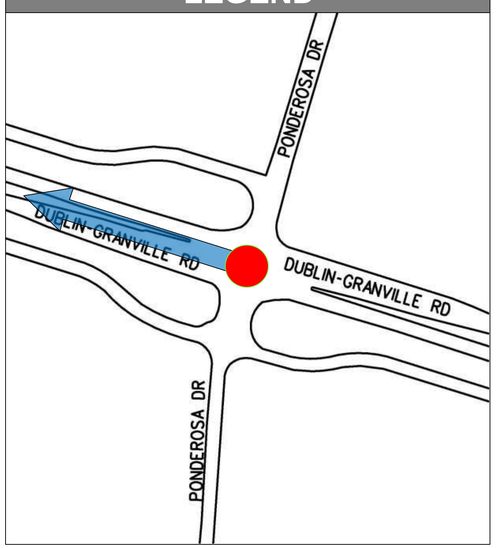
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1026
INTERSECTION N039:
DUBLIN GRANVILLE RD. AT
FOREST HILLS BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N037
REFER TO SHEET 251 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N037: DUBLIN GRANVILLE RD. AT PONDEROSA DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N042: BUSCH BLVD. AT KINGSMILL PKWY.
SEE SHEET 1029

PORT 6: INTERSECTION N028: DUBLIN GRANVILLE RD. AT I-71 SB RAMPS
SEE SHEET 1015

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N054: ATLANTIC AVE. AT BUSCH BLVD.

SEE SHEET 1041

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE

ORANGE TUBE

INTERSECTION N038: BUSCH BLVD. AT SHAPTER AVE.

SPLICE ENCLOSURE NORTHGATE RD. AT SHAPTER AVE.

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

24 STRAND FIBER OPTIC CABLE

SEE SHEET 1014

INTERSECTION N027: BUSCH BLVD. AT DUBLIN GRANVILLE RD.

BLUE TUBE | ORANGE TUBE

BLUE TUBE

ORANGE TUBE

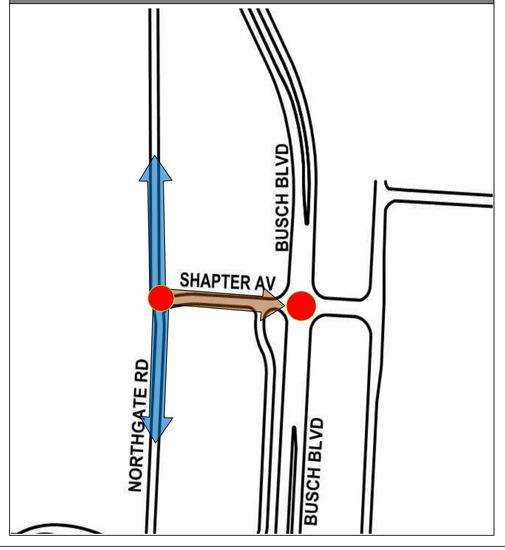
TO SPLICE ENCLOSURE: NORTHGATE RD. AT SHAPTER AVE.

SPLICE ENCLOSURE BUSCH BLVD. AT SHAPTER AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 24 STRAND SMF
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N038

REFER TO SHEET 253 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N038: BUSCH BLVD. AT SHAPTER AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1025
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N037: DUBLIN GRANVILLE RD. AT PONDEROSA DR.
SEE SHEET 1024

PORT 6: INTERSECTION N035: DUBLIN GRANVILLE RD. AT PARKVILLE ST. & SPRING RUN DR.
SEE SHEET 1022

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SEE SHEET 1023

INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1024

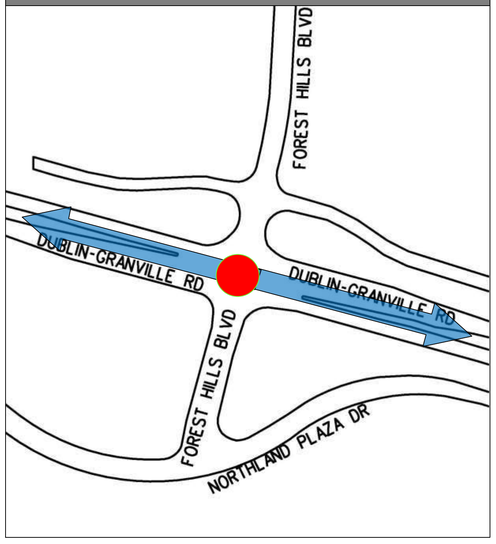
INTERSECTION N037: DUBLIN GRANVILLE RD. AT PONDEROSA DR.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N039

REFER TO SHEET 254 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N039: DUBLIN GRANVILLE RD. AT FOREST HILLS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH 'a' Ports

10/100/1000T: 1a 2a 3a 4a

100/1000 SFP: 5a LH 6a LH 7a LH 8a LH

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

MATCHLINE 'A' - SEE SHEET 1027A

ETHERNET SWITCH PORT DESTINATION

PORT 5a: INTERSECTION N062: CLEVELAND AVE. AT HUNTINGTON BANK DR.
SEE SHEET 1049

PORT 6a: INTERSECTION 3159: CLEVELAND AVE. AT FERRIS RD.
SEE SHEET 891

PORT 7a: INTERSECTION 3291: MORSE RD. AT WESTERVILLE RD.
SEE SHEET 911

PORT 8a: INTERSECTION N016: MORSE RD. AT NORTHTOWNE BLVD. & WALFORD ST.
SEE SHEET 1003

PORT 5b: PROPOSED COMMUNICATION NODE 270027.7-2: I-270 AT CLEVELAND AVE.
SEE SHEET 1095

EXISTING CCTV CABINET #1 CLEVELAND AVE AT MORSE RD

REFER TO SHEET 225 FOR CONSTRUCTION PLAN DETAILS

LAYER 2 ETHERNET SWITCH 'b' Ports

10/100/1000T: 1b 2b 3b 4b

100/1000 SFP: 5b 6b 7b 8b

CCTV FIELD BOX

8P8C MALE/FEMALE CONNECTION

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

ANALOG/IP COMPOSITE CCTV CABLE

PROPOSED CCTV

EXISTING CCTV CABINET #2 CLEVELAND AVE AT MORSE RD

REFER TO SHEET 225 FOR CONSTRUCTION PLAN DETAILS

LAYER 2 ETHERNET SWITCH 'b' Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 6 7 8

CCTV FIELD BOX

8P8C MALE/FEMALE CONNECTION

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

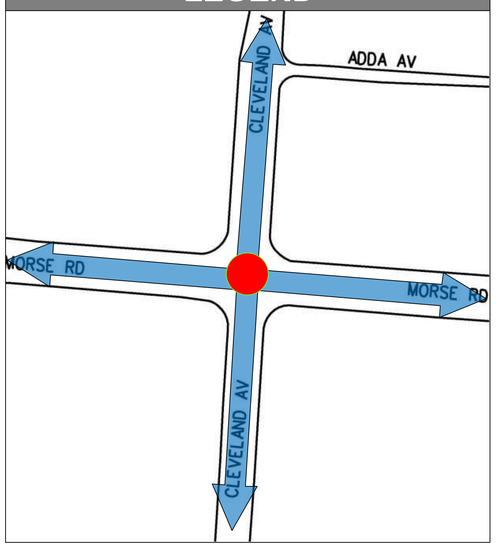
ANALOG/IP COMPOSITE CCTV CABLE

PROPOSED CCTV

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N040

REFER TO SHEET 225 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1027
1107

INTERSECTION N041: CLEVELAND AVE. AT NORTHWOLD RD. & TAYMOUTH RD.

SEE SHEET 1028

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO CONTROL CABINET
MATCHLINE 'A' - SEE SHEET 1027

24 STRAND FOC DROP CABLE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC DROP CABLE

BLUE TUBE
ORANGE TUBE

INTERSECTION N017: MALIN ST. AT MORSE RD.

SEE SHEET 1004

144 STRAND FOC INTERCONNECT TRUNK CABLE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 910

INTERSECTION 3290: CHESFORD RD. AT MORSE RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SPLICE ENCLOSURE IN EXISTING 32" PULL BOX
6 CABLE ENTRIES
300 FUSION SPLICES

144 STRAND FOC INTERCONNECT TRUNK CABLE

SEE SHEET 1049

INTERSECTION N062: CLEVELAND AVE. AT HUNTINGTON BANK DR.

INTERSECTION N040

CALCULATED ---
CHECKED ---

PID NUMBER 13034
2762 DR. E

INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N061: CLEVELAND AVE. AT WALLCREST BLVD.
SEE SHEET 1048

PORT 6: INTERSECTION N060: BRETTON WOODS DR. & EDMONTON RD. AT CLEVELAND AVE.
SEE SHEET 1047

PORT 7: EXISTING COMMUNICATION NODE 270032.3: I-270 AT MORSE RD.
SEE SHEET 1096

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N060: BRETTON WOODS DR. & EDMONTON RD. AT CLEVELAND AVE.
SEE SHEET 1047

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

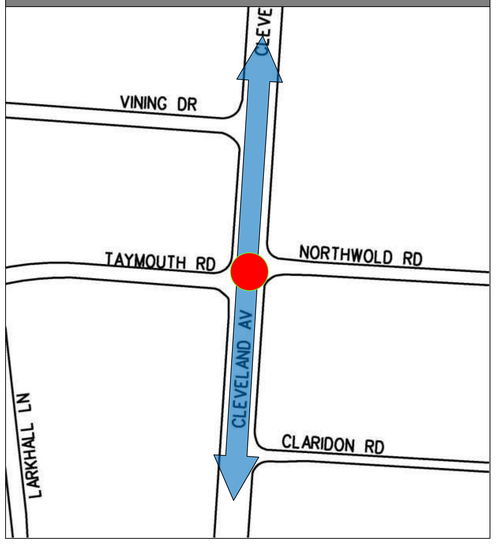
SEE SHEET 1027

INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N041

REFER TO SHEET 237 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N041: CLEVELAND AVE. AT NORTHWOLD RD. & TAYMOUTH RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1028
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N044: SCHROCK RD. AT DOUBLETREE AVE.
SEE SHEET 1031

PORT 6: INTERSECTION N038: BUSCH BLVD. AT SHAPTER AVE.
SEE SHEET 1025

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N043: BUSCH BLVD. AT SCHROCK RD.

SEE SHEET 1030

BLUE TUBE ***ORANGE TUBE*** ***GREEN TUBE*** ***BROWN TUBE*** ***SLATE TUBE*** ***WHITE TUBE***

BLUE TUBE ***ORANGE TUBE***

SPLICE ENCLOSURE

BLUE TUBE ***ORANGE TUBE*** ***GREEN TUBE*** ***BROWN TUBE*** ***SLATE TUBE*** ***WHITE TUBE***

144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

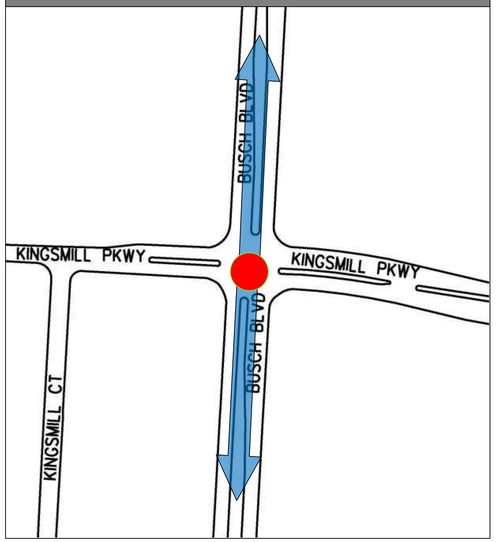
SEE SHEET 1041

INTERSECTION N054: ATLANTIC AVE. AT BUSCH BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N042

REFER TO SHEET 255 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N042: BUSCH BLVD. AT KINGSMILL PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N045: SCHROCK RD. AT AMBLESIDE DR.
SEE SHEET 1032

PORT 6: INTERSECTION N054: ATLANTIC AVE. AT BUSCH BLVD.
SEE SHEET 1041

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

WHITE TUBE

SEE SHEET 1031
INTERSECTION N044: SCHROCK RD. AT DOUBLETREE AVE.

SPLICE ENCLOSURE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

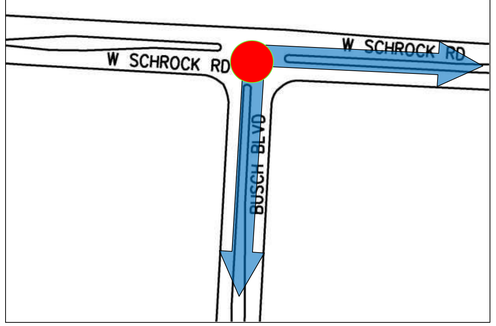
WHITE TUBE

SEE SHEET 1029
INTERSECTION N042: BUSCH BLVD. AT KINGSMILL PKWY.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N043

REFER TO SHEET 256 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N043: BUSCH BLVD. AT SCHROCK RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N047: KARL RD. AT SCHROCK RD.
SEE SHEET 1034

PORT 6: INTERSECTION N042: BUSCH BLVD. AT KINGSMILL PKWY.
SEE SHEET 1014

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1030
INTERSECTION N043: BUSCH BLVD. AT SCHROCK RD.

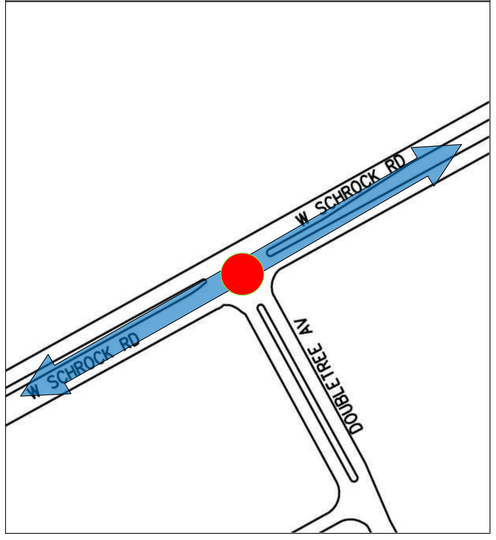
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1032
INTERSECTION N045: SCHROCK RD. AT AMBLESIDE DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N044

REFER TO SHEET 257 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N044: SCHROCK RD. AT DOUBLETREE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 LH 8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N059: SCHROCK RD. AT SKYWAE DR.
SEE SHEET 1046

PORT 6: INTERSECTION N043: BUSCH BLVD. AT SCHROCK RD.
SEE SHEET 1030

PORT 7: EXISTING CCTV: I-71 AT SCHROCK RD.
SEE THIS SHEET

EXISTING CCTV SITE I-71 AT SCHROCK RD

REFER TO SHEET 561 FOR CONSTRUCTION PLAN DETAILS

LAYER 2 ETHERNET SWITCH

Ports 1 2 3 4 5 LH 6 7 8

SFP Modules

BLUE TUBE

ORANGE

PATCH PANEL ENCLOSURE
24 TERMINATION

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 MBS

ANALOG VIDEO

24 STRAND FIBER OPTIC DROP CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE ORANGE TUBE

BLUE TUBE ORANGE TUBE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

WHITE TUBE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

WHITE TUBE

SEE SHEET 1031

INTERSECTION N044: SCHROCK RD. AT DOUBLETREE AVE.

SEE SHEET 1034

INTERSECTION N047: KARL RD. AT SCHROCK RD.

SPLICE ENCLOSURE

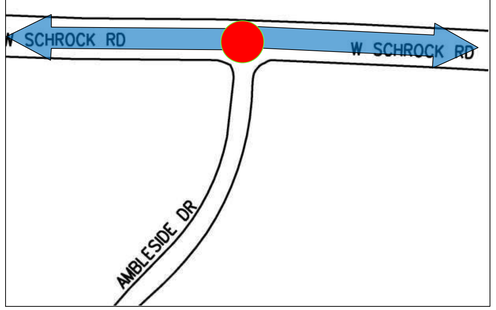
144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N045

REFER TO SHEET 259 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N045: SCHROCK RD. AT AMBLESIDE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1032
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 (LH) 6 (LH) 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N010: MAIZE RD. AT MORSE RD.
SEE SHEET 997

PORT 6: INTERSECTION N007: MORSE RD. AT SINCLAIR RD.
SEE SHEET 994

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

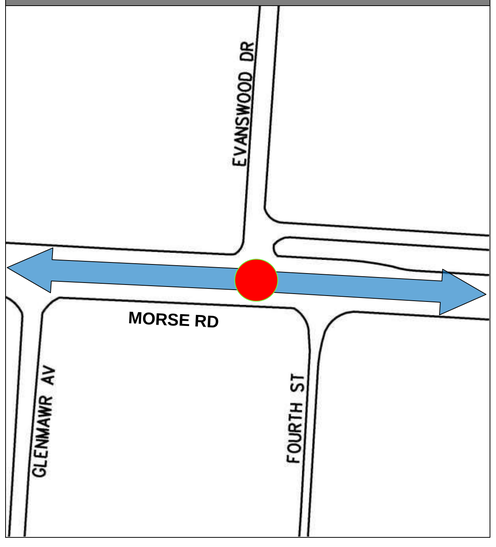
SEE SHEET 995
INTERSECTION N008: I-71 NB RAMPS AT MORSE RD.

SEE SHEET 996
INTERSECTION N009: MORSE RD. AT SANDY LANE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N046

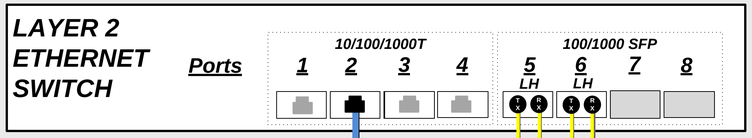
REFER TO SHEET 208 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N046: EVANSWOOD DR. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

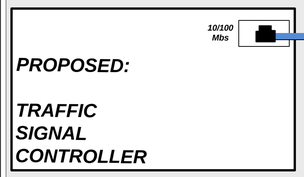
TRAFFIC SIGNAL CABINET ASSEMBLY



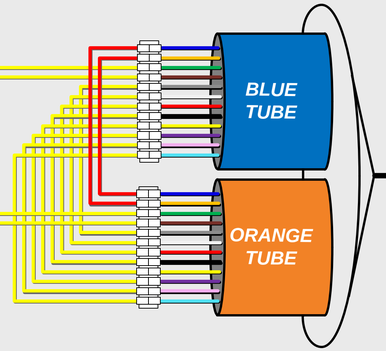
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N048: SCHROCK RD. AT SHARON WOODS BLVD.
SEE SHEET 1035

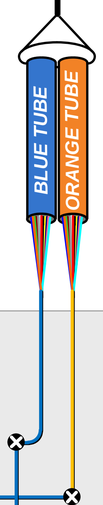
PORT 6: INTERSECTION N044: SCHROCK RD. AT DOUBLETREE AVE.
SEE SHEET 1031

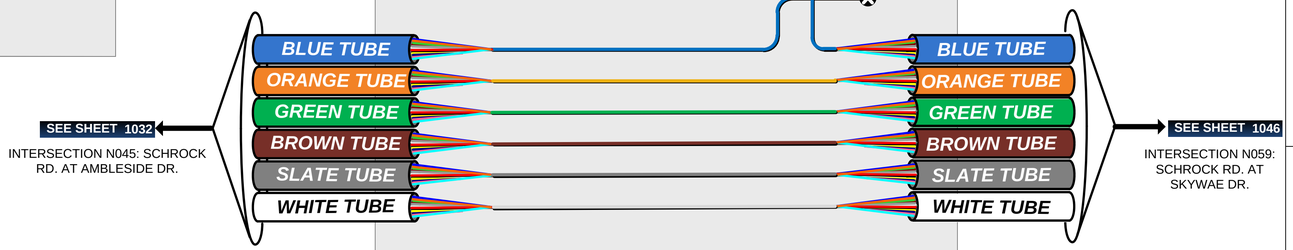


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE





SEE SHEET 1032
INTERSECTION N045: SCHROCK RD. AT AMBLESIDE DR.

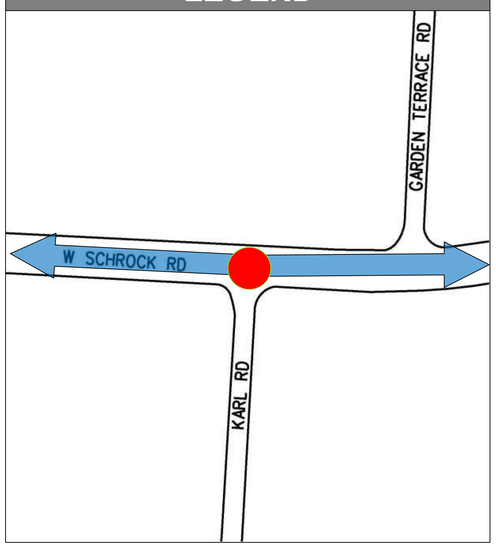
SEE SHEET 1046
INTERSECTION N059: SCHROCK RD. AT SKYWAE DR.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N047
REFER TO SHEET 260 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N047: KARL RD. AT SCHROCK RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports 1 2 3 4 — 10/100/1000T; 5 LH 6 LH 7 LH 8 — 100/1000 SFP

PROPOSED:

TRAFFIC SIGNAL CONTROLLER — 10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N049: CLEVELAND AVE. AT SCHROCK RD.
SEE SHEET 1036

PORT 6: INTERSECTION N047: KARL RD. AT SCHROCK RD.
SEE SHEET 1034

PORT 7: EXISTING CCTV: I-270 AT SCHROCK RD.
SEE THIS SHEET

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING CCTV SITE I-270 AT SCHROCK RD

REFER TO SHEET 564 FOR CONSTRUCTION PLAN DETAILS

LAYER 2 ETHERNET SWITCH

Ports 1 2 3 4 5 LH 6 7 8

SFP Modules

BLUE TUBE
ORANGE — 10/100 Mbs

PATCH PANEL ENCLOSURE
24 TERMINATION

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

24 STRAND FIBER OPTIC DROP CABLE

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1046
INTERSECTION N059: SCHROCK RD. AT SKYWAE DR.

SEE SHEET 1044
INTERSECTION N057: SCHROCK HILL CT. AT SCHROCK RD.

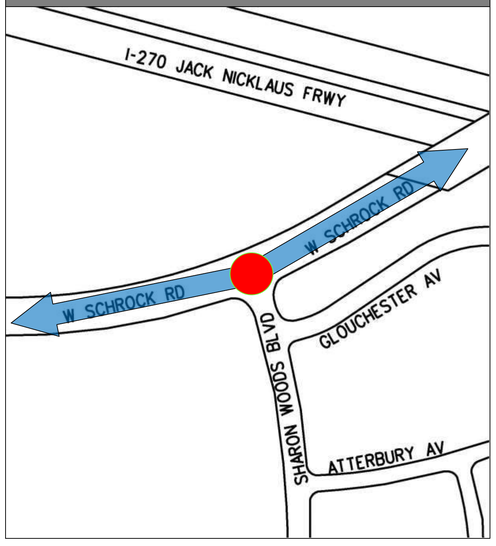
SPLICE ENCLOSURE

144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N048

REFER TO SHEET 261 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N048: SCHROCK RD. AT SHARON WOODS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1035
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH 6 LH 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE 270027.7: I-270 AT CLEVELAND AVE. SEE SHEET 1095

PORT 6: INTERSECTION N048: SCHROCK RD. AT SHARON WOODS BLVD. SEE SHEET 1035

TERMINAL SERVER

10/100 Mbs

RS232 #1

RS232 #2

RS232

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

CAT 5 CABLE - ETHERNET

EXISTING CCTV SITE CLEVELAND AVE AT SCHROCK RD

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

PROPOSED CCTV

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

WHITE TUBE

SEE SHEET 1044

INTERSECTION N057: SCHROCK HILL CT. AT SCHROCK RD.

SEE SHEET 1043

INTERSECTION N056: CLEVELAND AVE. AT I-270 WB OFF RAMPS

144-FIBER TRUNK CABLE

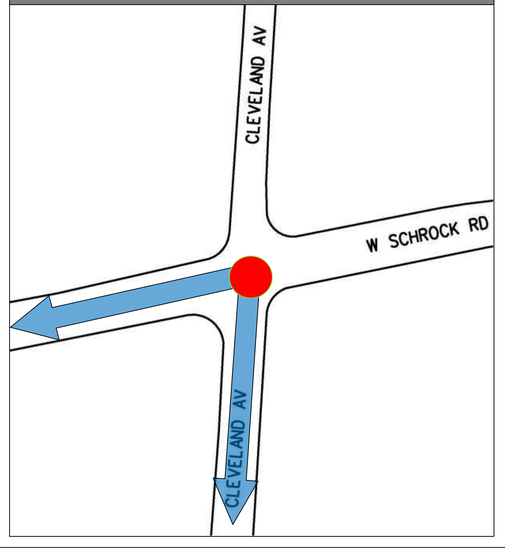
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS

*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N049

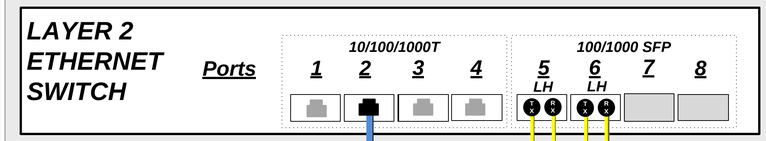
REFER TO SHEET 262 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N049: CLEVELAND AVE. AT SCHROCK RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

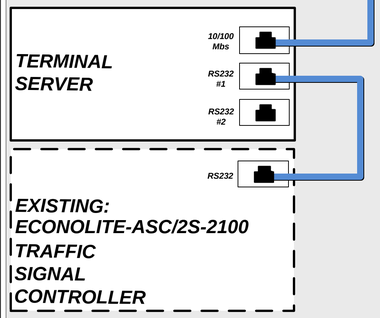
TRAFFIC SIGNAL CABINET ASSEMBLY



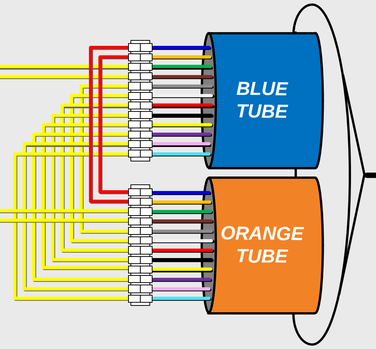
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE 270027.7: I-270 AT CLEVELAND AVE.
SEE SHEET 1094

PORT 6: INTERSECTION N052: BLENDON WOODS BLVD.& LAURELWOOD DR. AT CLEVELAND AVE.
SEE SHEET 1039

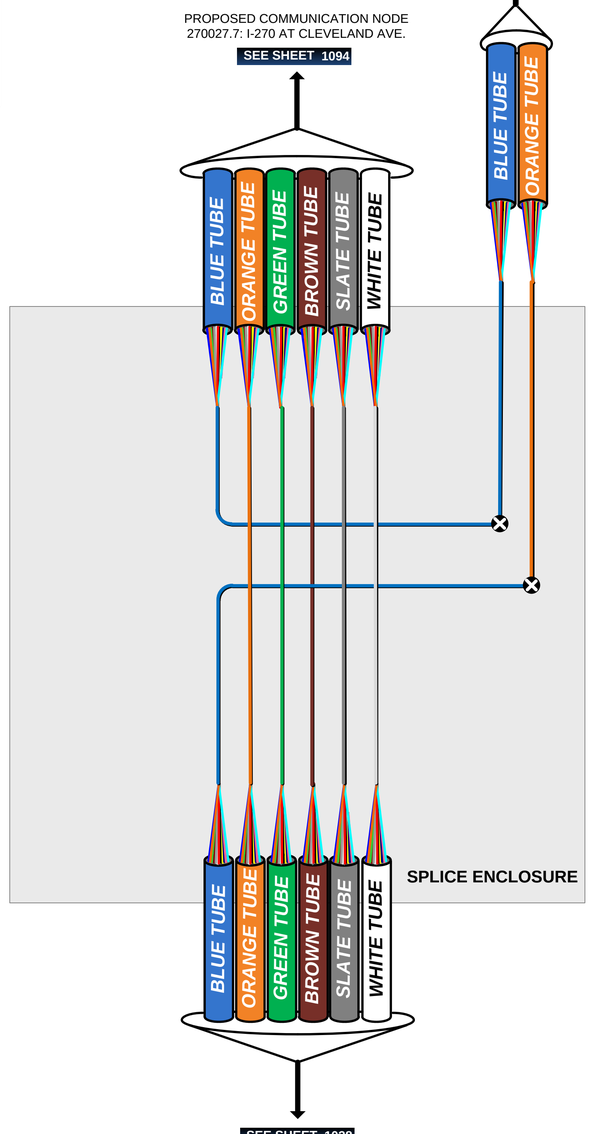


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

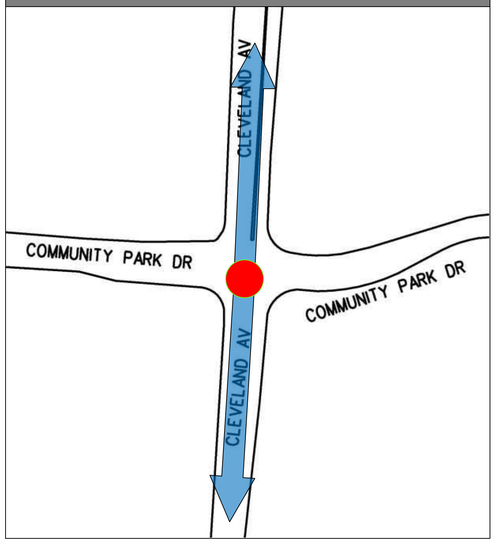
PROPOSED COMMUNICATION NODE
270027.7: I-270 AT CLEVELAND AVE.
SEE SHEET 1094



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 1038
INTERSECTION N051: CLEVELAND AVE. AT CORPORATE EXCHANGE DR.

INTERSECTION N050

REFER TO SHEET 263 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N050: CLEVELAND AVE. AT COMMUNITY PARK DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE 270027.7: I-270 AT CLEVELAND AVE.
SEE SHEET 1094

PORT 6: INTERSECTION N053: CLEVELAND AVE. AT COLUMBUS SQUARE DR. & FUJI DR.
SEE SHEET 1040

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N050: CLEVELAND AVE. AT COMMUNITY PARK DR.

SEE SHEET 1037

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE

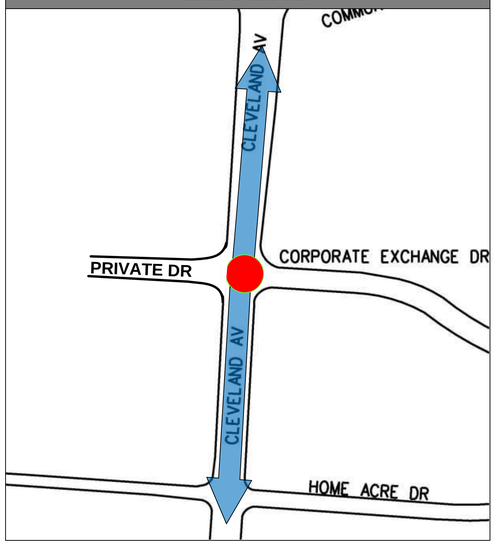
SPLICE ENCLOSURE

SEE SHEET 1039

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N052: BLENDON WOODS BLVD.& LAURELWOOD DR. AT CLEVELAND AVE.

INTERSECTION N051

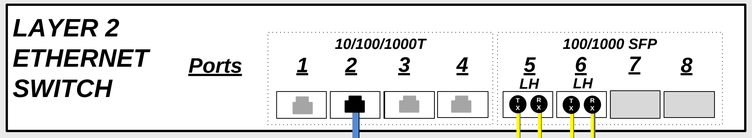
REFER TO SHEET 265 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N051: CLEVELAND AVE. AT CORPORATE EXCHANGE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

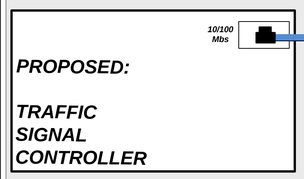
TRAFFIC SIGNAL CABINET ASSEMBLY



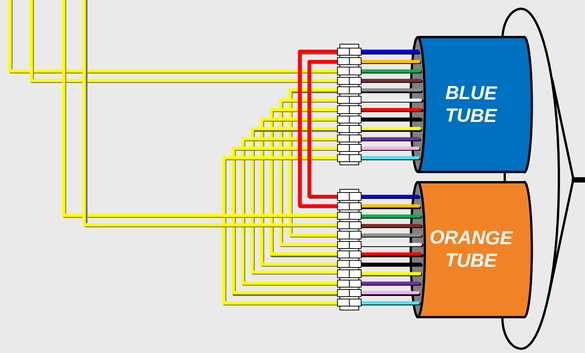
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N050: CLEVELAND AVE. AT COMMUNITY PARK DR.
SEE SHEET 1037

PORT 6: INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.
SEE SHEET 1023



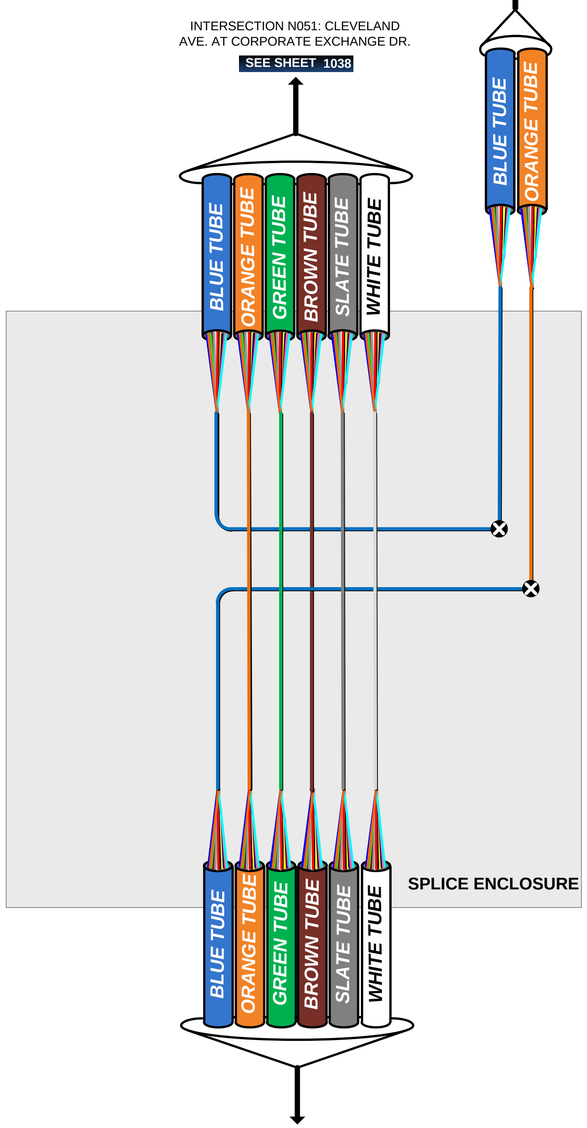
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N051: CLEVELAND AVE. AT CORPORATE EXCHANGE DR.

SEE SHEET 1038



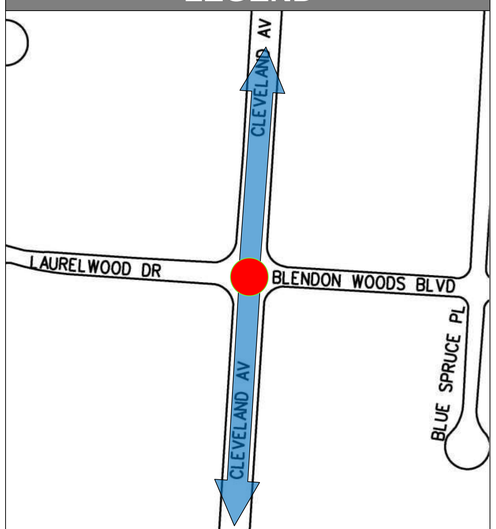
SEE SHEET 1040

INTERSECTION N053: CLEVELAND AVE. AT COLUMBUS SQUARE DR. & FUJI DR.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N052

REFER TO SHEET 266 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N052: BLENDON WOODS BLVD & LAURELWOOD DR. AT CLEVELAND AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N051: CLEVELAND AVE. AT CORPORATE EXCHANGE DR.
SEE SHEET 1038

PORT 6: INTERSECTION N055: CLEVELAND AVE. AT MEIJER & NORTHLAND PLAZA DR.
SEE SHEET 1042

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N052: BLENDON WOODS BLVD.& LAURELWOOD DR. AT CLEVELAND AVE.
SEE SHEET 1039

BLUE TUBE ***ORANGE TUBE*** ***GREEN TUBE*** ***BROWN TUBE*** ***SLATE TUBE*** ***WHITE TUBE***

BLUE TUBE ***ORANGE TUBE***

SPLICE ENCLOSURE

BLUE TUBE ***ORANGE TUBE*** ***GREEN TUBE*** ***BROWN TUBE*** ***SLATE TUBE*** ***WHITE TUBE***

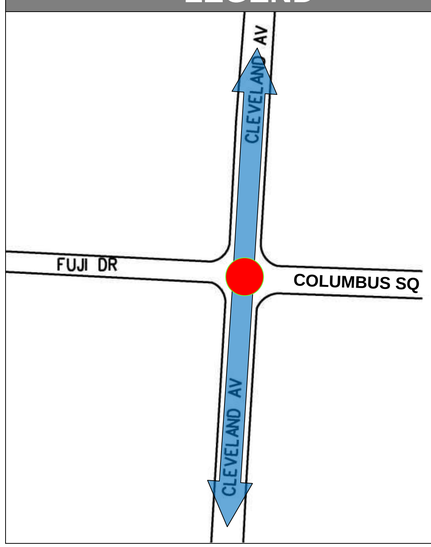
SEE SHEET 1023

INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N053

REFER TO SHEET 267 FOR CONSTRUCTION PLAN DETAILS

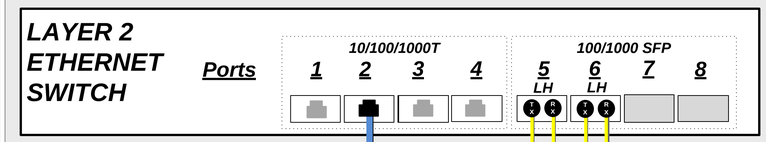
PID NUMBER 13034
2762 DR. E

INTERSECTION N053: CLEVELAND AVE. AT COLUMBUS SQUARE DR. & FUJI DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

1040
1107

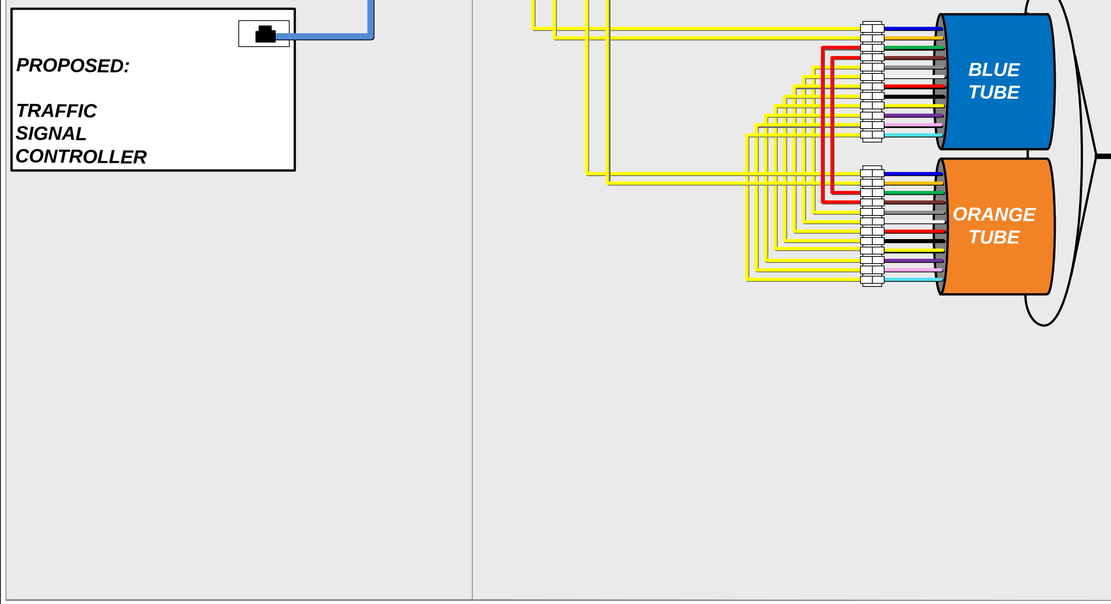
TRAFFIC SIGNAL CABINET ASSEMBLY

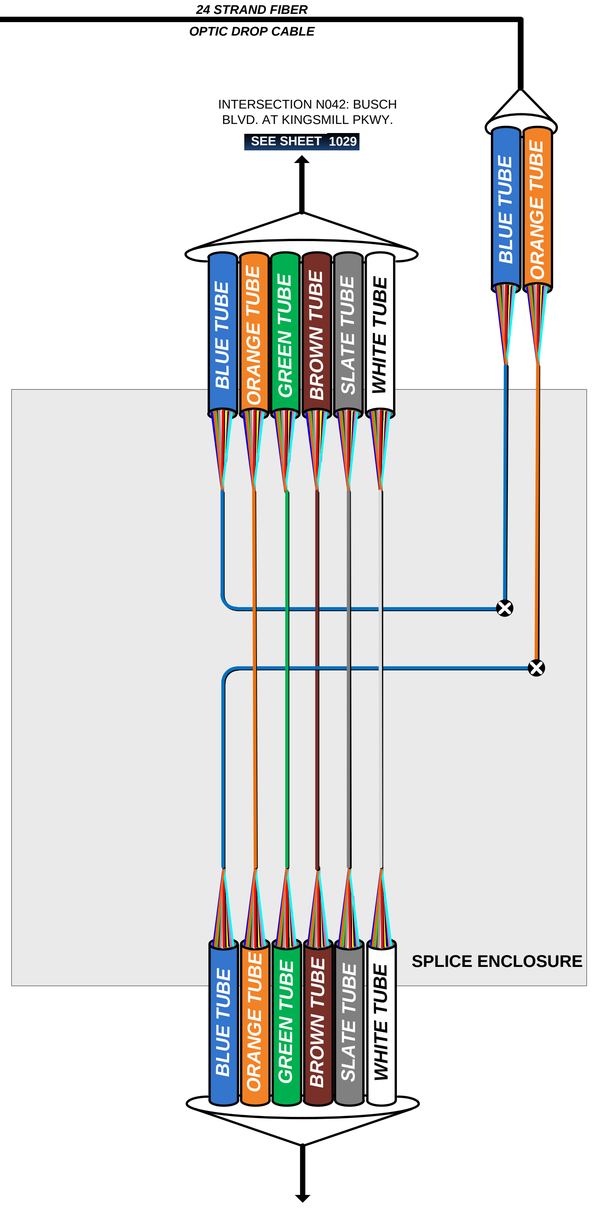


ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N043: BUSCH BLVD. AT SCHROCK RD.
SEE SHEET 1030

PORT 6: INTERSECTION N027: BUSCH BLVD. AT DUBLIN GRANVILLE RD.
SEE SHEET 1014

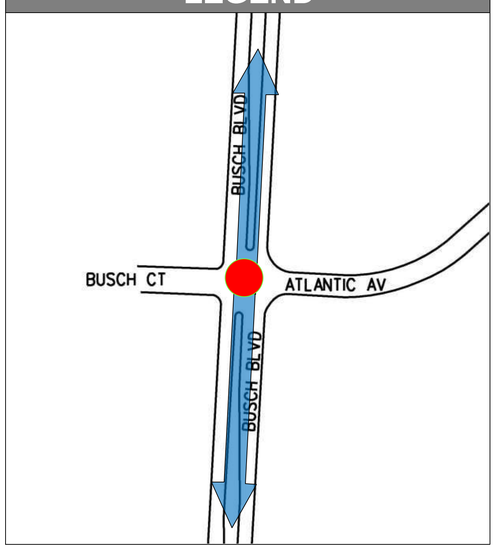




KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N054

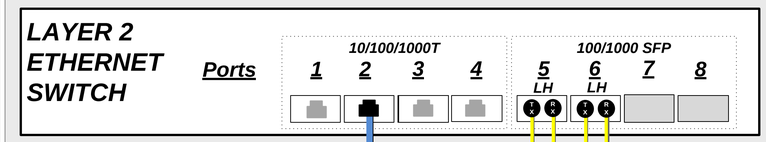
REFER TO SHEET 268 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N054: ATLANTIC AVE. AT BUSCH BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

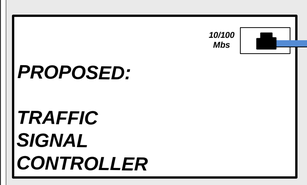
TRAFFIC SIGNAL CABINET ASSEMBLY



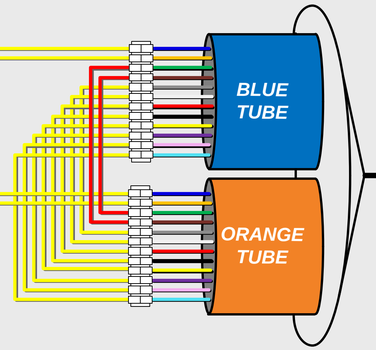
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N053: CLEVELAND AVE. AT COLUMBUS SQUARE DR. & FUJI DR.
SEE SHEET 1040

PORT 6: INTERSECTION N061: CLEVELAND AVE. AT WALLCREST BLVD.
SEE SHEET 1048

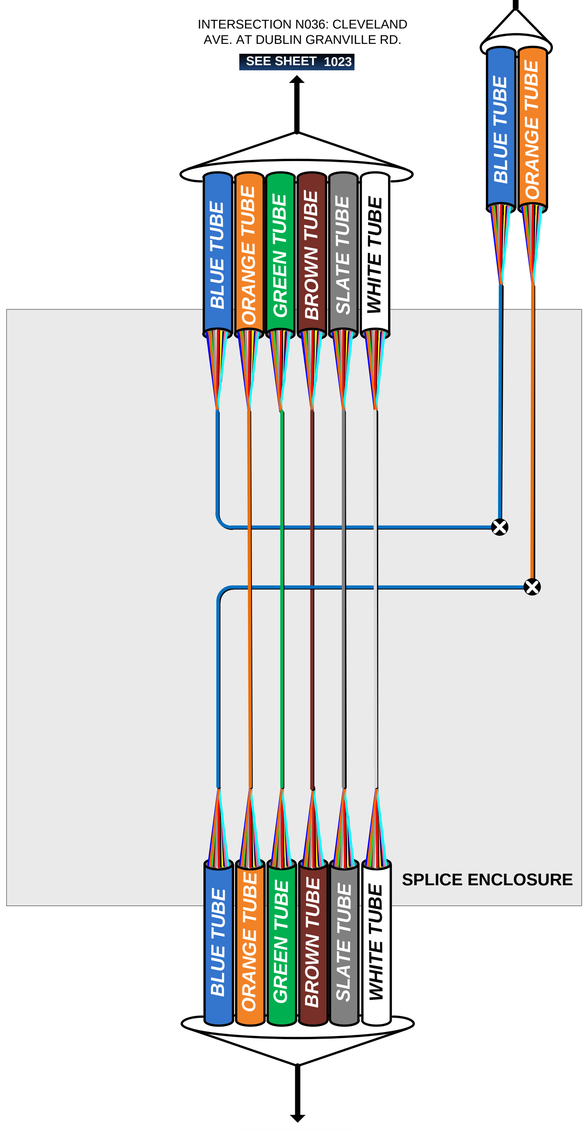


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.
SEE SHEET 1023



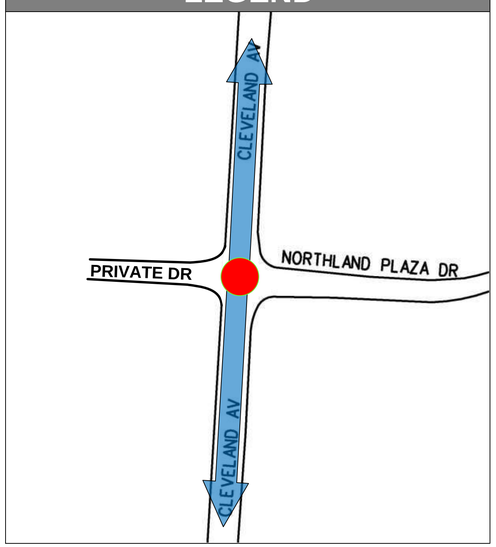
SEE SHEET 1012
INTERSECTION N025: CLEVELAND AVE. AT TEAKWOOD DR.

144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N055

REFER TO SHEET 270 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N055: CLEVELAND AVE. AT MEIJER & NORTHLAND PLAZA DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N057: SCHROCK HILL CT. AT SCHROCK RD.
SEE SHEET 1044

PORT 6: PROPOSED COMMUNICATION NODE 270027.7: I-270 AT CLEVELAND AVE.
SEE SHEET 1094

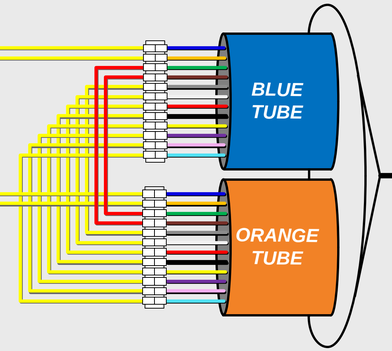
TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

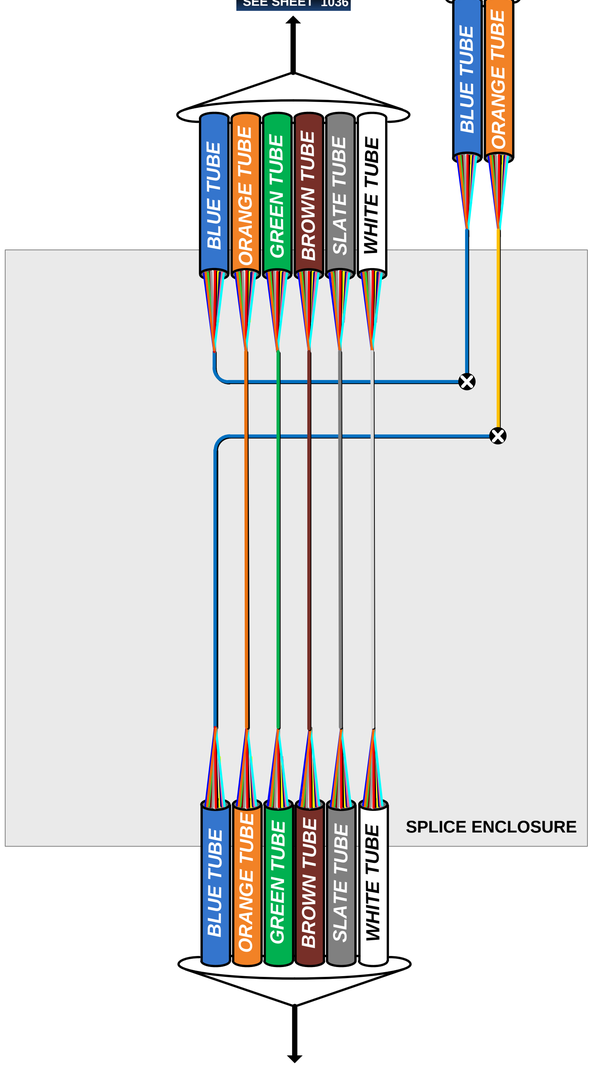
- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N049: CLEVELAND AVE. AT SCHROCK RD.
SEE SHEET 1036



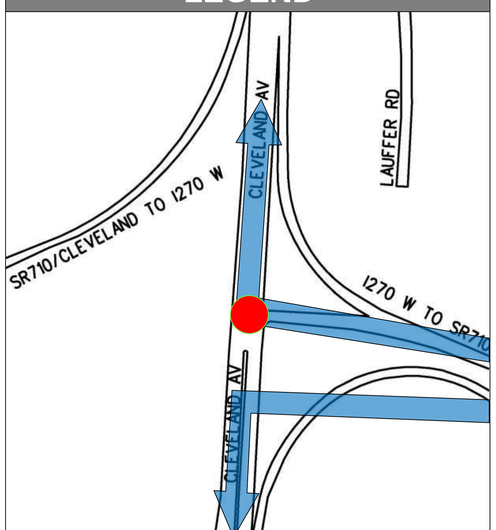
SPLICE ENCLOSURE

SEE SHEET 1094
PROPOSED COMMUNICATION NODE 270027.7: I-270 AT CLEVELAND AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N056
REFER TO SHEET 271 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N056: CLEVELAND AVE. AT I-270 WB OFF RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 (LH) 6 (LH) 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N056: CLEVELAND AVE. AT I-270 WB OFF RAMPS
SEE SHEET 1043

PORT 6: INTERSECTION N059: SCHROCK RD. AT SKYWAE DR.
SEE SHEET 1046

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

SPLICE ENCLOSURE

BLUE TUBE

ORANGE TUBE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

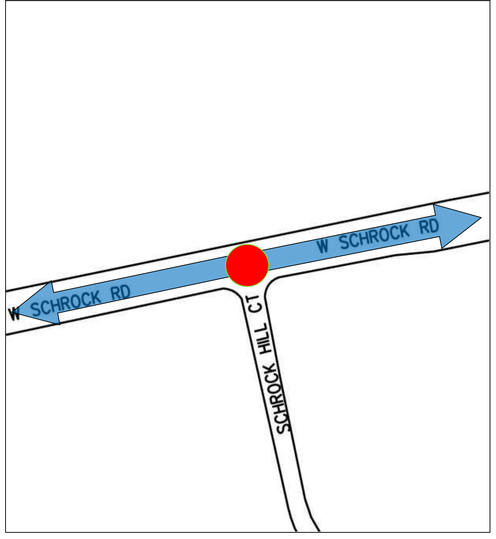
SEE SHEET 1035
INTERSECTION N048: SCHROCK RD. AT SHARON WOODS BLVD.

SEE SHEET 1036
INTERSECTION N049: CLEVELAND AVE. AT SCHROCK RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N057

REFER TO SHEET 272 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N057: SCHROCK HILL CT. AT SCHROCK RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.
SEE SHEET 1018

PORT 6: INTERSECTION N022: KARL RD. AT PENWORTH DR.
SEE SHEET 1009

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N024: GRANVILLE CENTER DR. & KARL CT. AT KARL RD.
SEE SHEET 1011

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

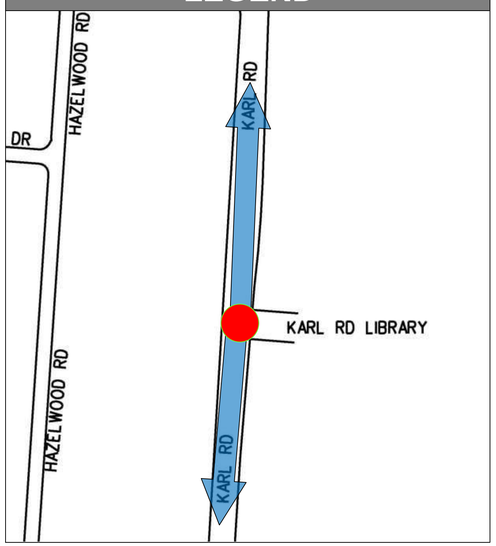
SEE SHEET 1010

INTERSECTION N023: KARL RD. AT SANDALWOOD PL.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N058

REFER TO SHEET 235 FOR CONSTRUCTION PLAN DETAILS

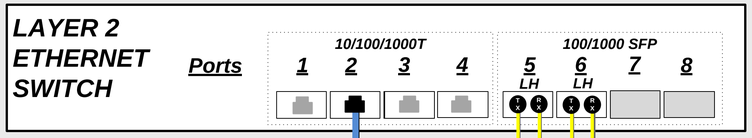
PID NUMBER 13034
2762 DR. E

INTERSECTION N058: KARL RD. AT KARL RD. LIBRARY
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1045
1107

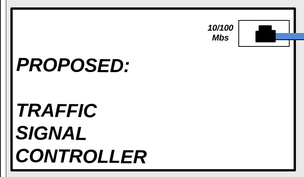
TRAFFIC SIGNAL CABINET ASSEMBLY



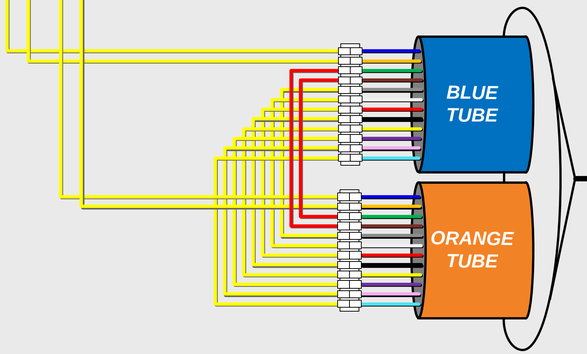
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N057: SCHROCK HILL CT. AT SCHROCK RD.
SEE SHEET 1044

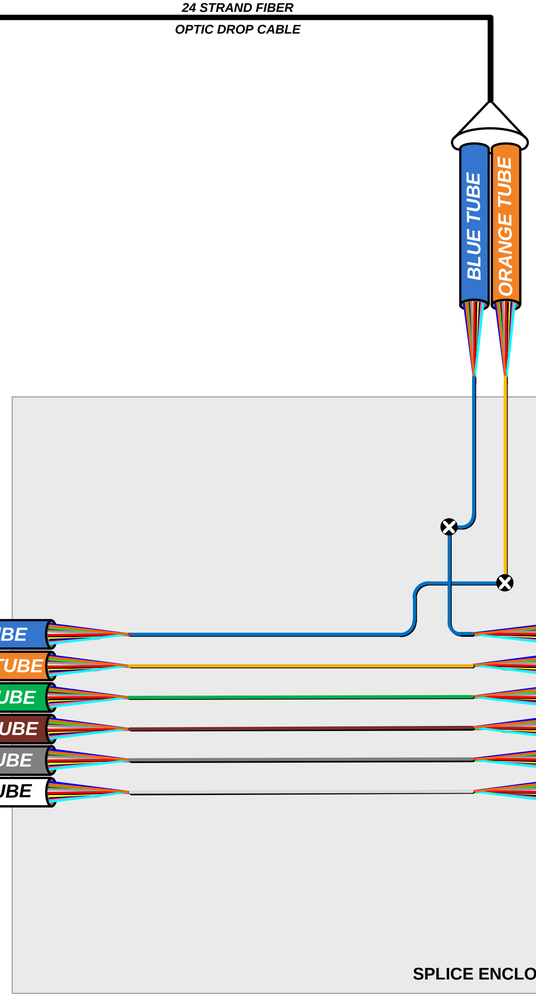
PORT 6: INTERSECTION N045: SCHROCK RD. AT AMBLESIDE DR.
SEE SHEET 1032



PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE



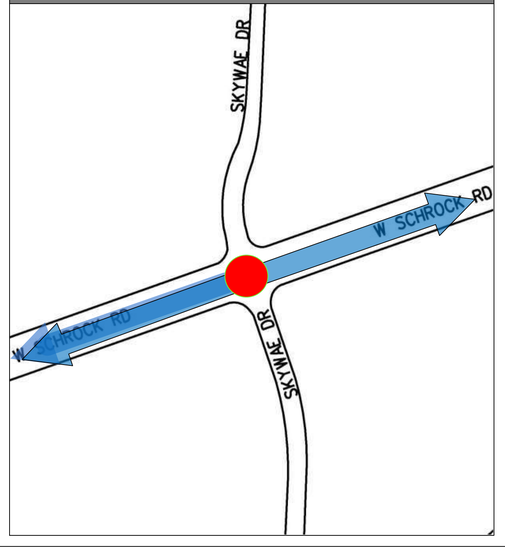
SEE SHEET 1034
INTERSECTION N047: KARL RD. AT SCHROCK RD.

SEE SHEET 1035
INTERSECTION N048: SCHROCK RD. AT SHARON WOODS BLVD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N059

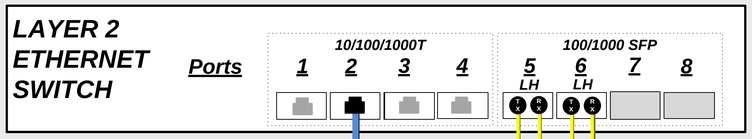
REFER TO SHEET 273 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N059: SCHROCK RD. AT SKYWAE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

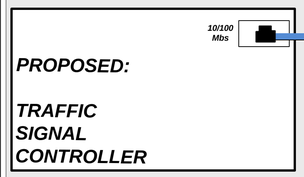
TRAFFIC SIGNAL CABINET ASSEMBLY



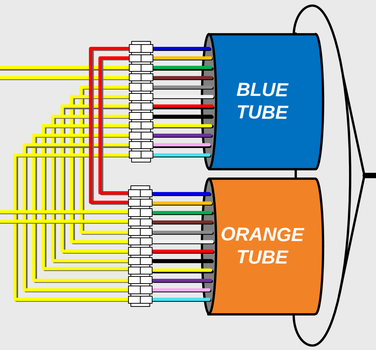
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N025: CLEVELAND AVE. AT TEAKWOOD DR.
SEE SHEET 1012

PORT 6: INTERSECTION N041: CLEVELAND AVE. AT NORTHWOLD RD. & TAYMOUTH RD.
SEE SHEET 1028

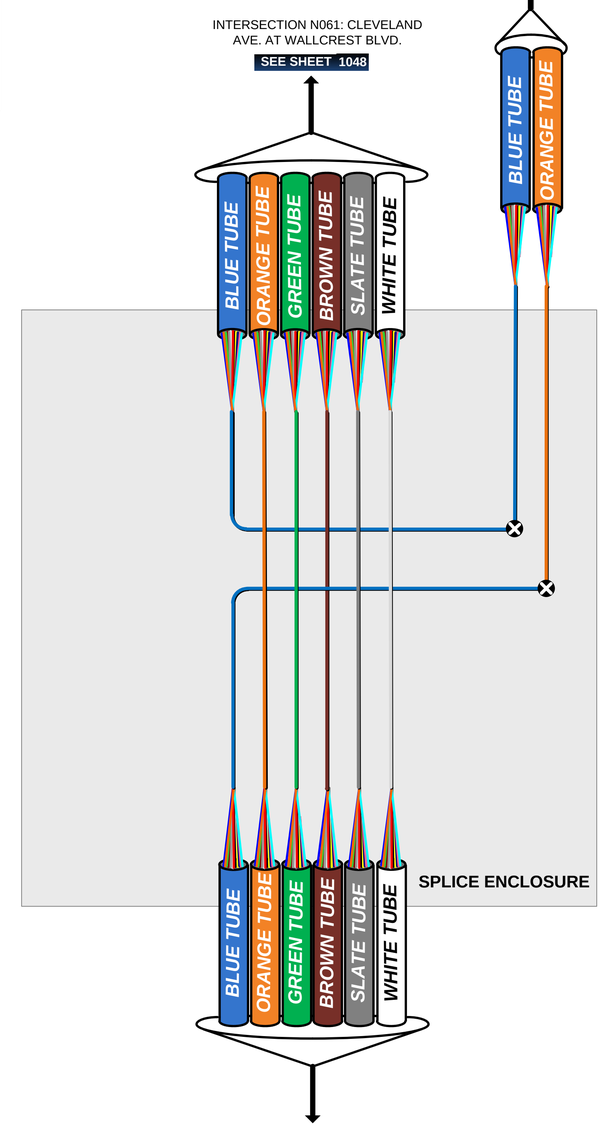


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N061: CLEVELAND AVE. AT WALLCREST BLVD.
SEE SHEET 1048



SEE SHEET 1028

INTERSECTION N041: CLEVELAND AVE. AT NORTHWOLD RD. & TAYMOUTH RD.

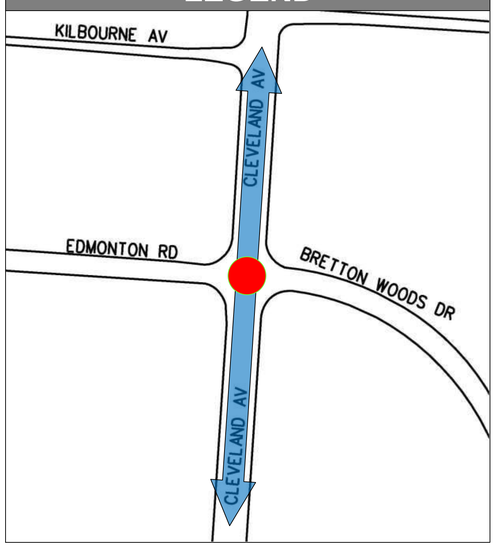
144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N060

REFER TO SHEET 238 FOR CONSTRUCTION PLAN DETAILS

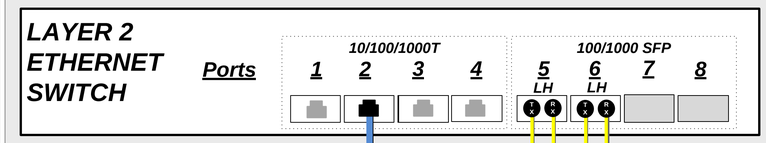
PID NUMBER 13034
2762 DR. E

INTERSECTION N060: BRETTON WOODS DR. & EDMONTON RD.
AT CLEVELAND AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1047
1107

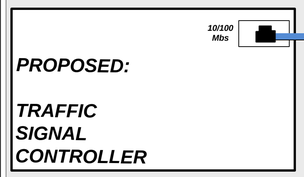
TRAFFIC SIGNAL CABINET ASSEMBLY



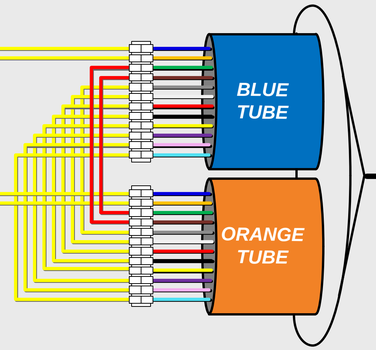
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N055: CLEVELAND AVE. AT MEIJER & NORTHLAND PLAZA DR.
SEE SHEET 1042

PORT 6: INTERSECTION N041: CLEVELAND AVE. AT NORTHWOLD RD. & TAYMOUTH RD.
SEE SHEET 1028

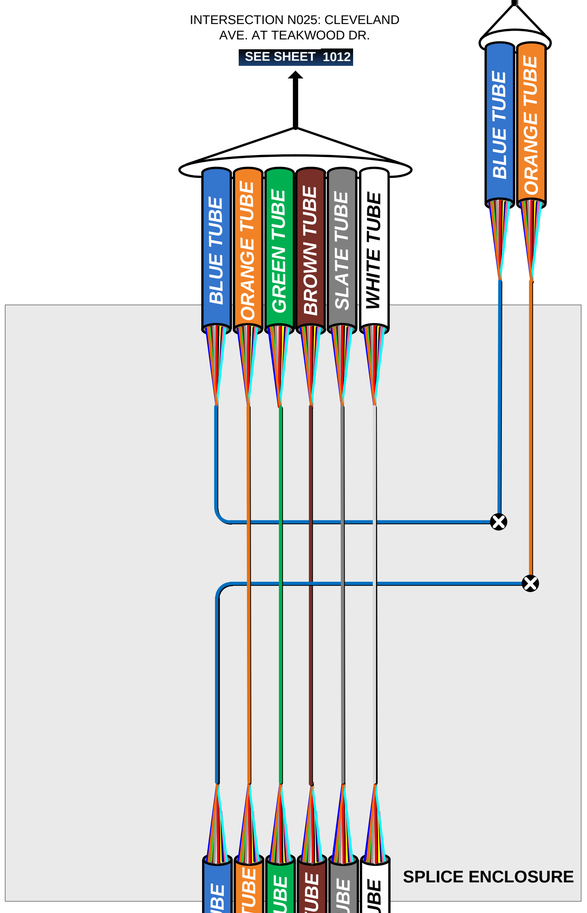


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N025: CLEVELAND AVE. AT TEAKWOOD DR.
SEE SHEET 1012



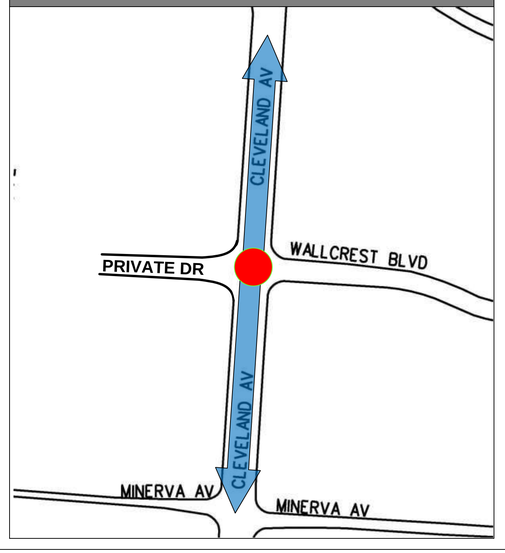
144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 1047
INTERSECTION N060: BRETTON WOODS DR. & EDMONTON RD. AT CLEVELAND AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N061

REFER TO SHEET 239 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION N061: CLEVELAND AVE. AT WALLCREST BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.
SEE SHEET 1027

PORT 6: INTERSECTION SIG4360: CLEVELAND AVE. AT CTFD
SEE SHEET 1058

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.
SEE SHEET 1027

BLUE TUBE
ORANGE TUBE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

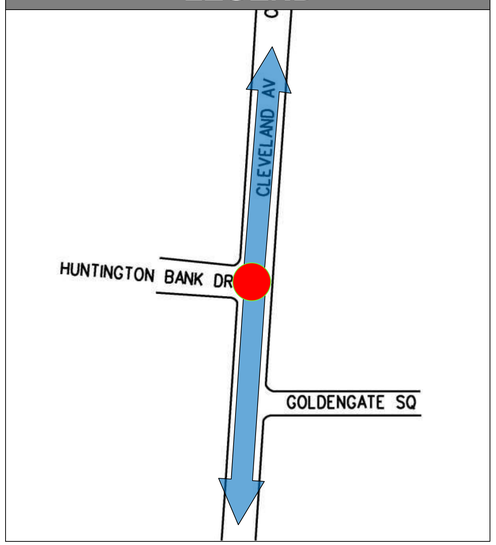
SEE SHEET 891

INTERSECTION 3159: CLEVELAND AVE. AT FERRIS RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- CITYNET FIBER
- COLUMBUS FIBERNET
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION N062

REFER TO SHEET 226 FOR CONSTRUCTION PLAN DETAILS

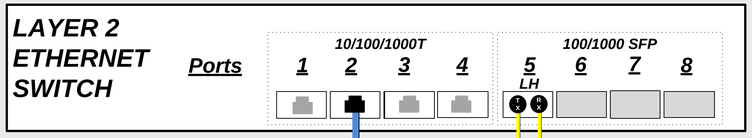
PID NUMBER 13034
2762 DR. E

INTERSECTION N062: CLEVELAND AVE. AT HUNTINGTON BANK DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1049
1107

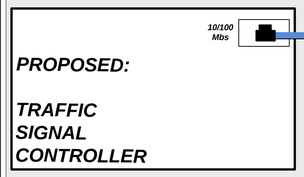
TRAFFIC SIGNAL CABINET ASSEMBLY



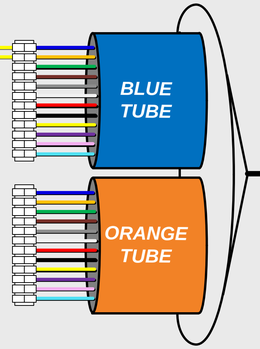
ETHERNET SWITCH PORT DESTINATION

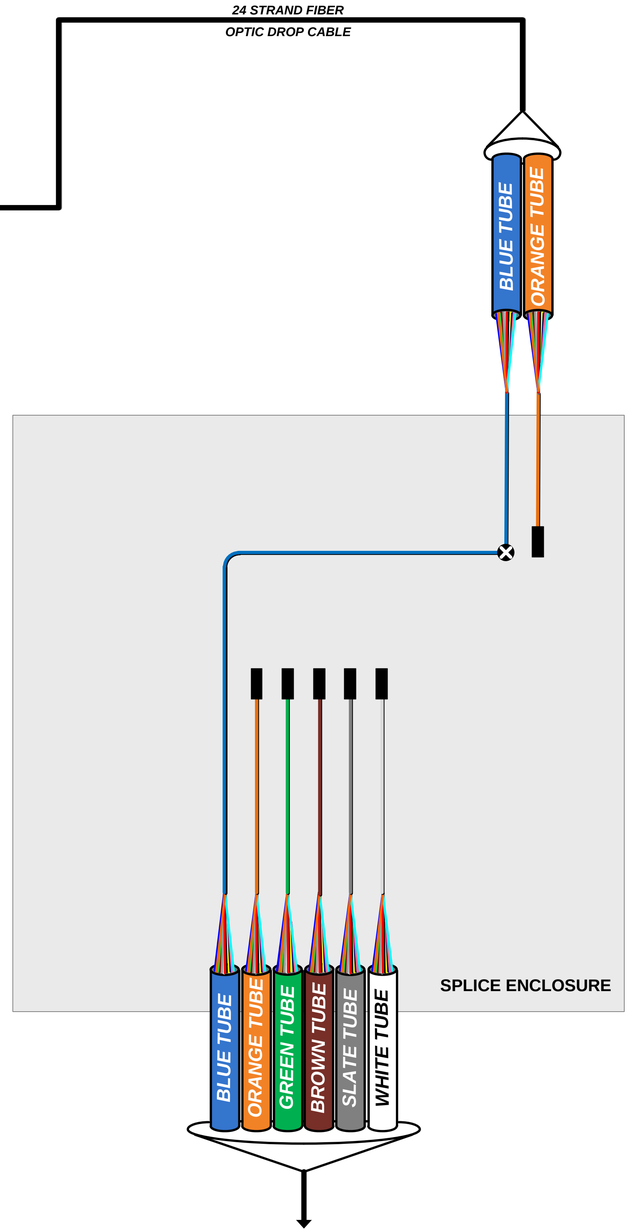
PORT 5: INTERSECTION SIG4180: HAVENS CORNERS RD. AT REYNOLDSBURG-NEW ALBANY RD.

SEE SHEET 1057



PATCH PANEL ENCLOSURE – 24 TERMINATION



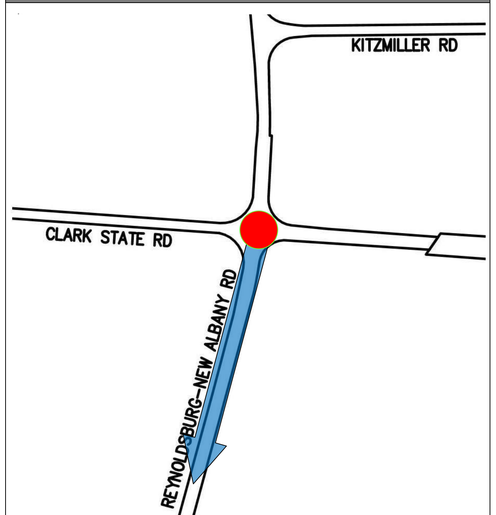


SEE SHEET 1057

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4180: HAVENS CORNERS RD. AT REYNOLDSBURG-NEW ALBANY RD.

INTERSECTION SIG4050

REFER TO SHEET 332 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4050: CLARK STATE RD. AT REYNOLDSBURG-NEW ALBANY RD. COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

- BLUE TUBE
- ORANGE TUBE

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3159: CLEVELAND AVE. AT FERRIS RD.
SEE SHEET 891

PORT 6: INTERSECTION SIG4065: CLEVELAND AVE. AT INNIS RD.
SEE SHEET 1053

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION SIG4360:
CLEVELAND AVE. AT CTFD
SEE SHEET 1058

BLUE TUBE
ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

144-FIBER TRUNK CABLE

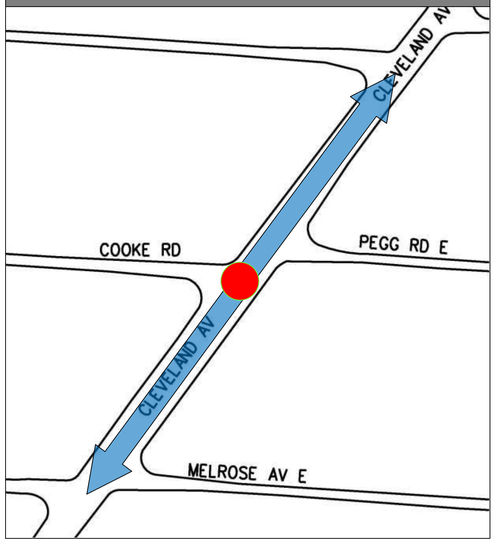
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 1054
INTERSECTION SIG4070:
CLEVELAND AVE. AT ELMORE AVE.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION SIG4055

REFER TO SHEET 290 FOR CONSTRUCTION PLAN DETAILS

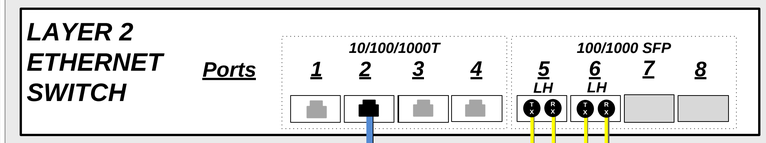
PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4055: CLEVELAND AVE. AT COOKE RD. AND PEGG RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1051
1107

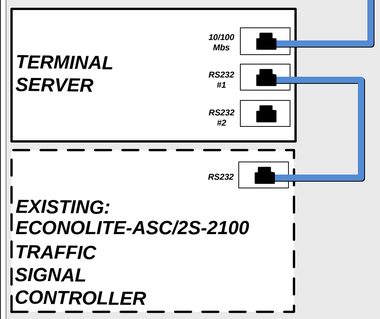
TRAFFIC SIGNAL CABINET ASSEMBLY



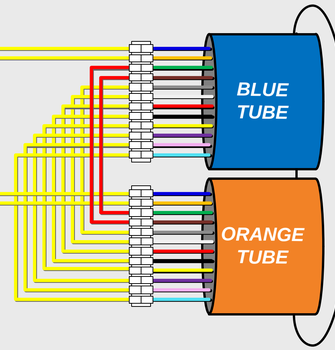
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4070: CLEVELAND AVE. AT ELMORE AVE.
SEE SHEET 1054

PORT 6: INTERSECTION 3154: CLEVELAND AVE. AT OAKLAND PARK AVE.
SEE SHEET 890

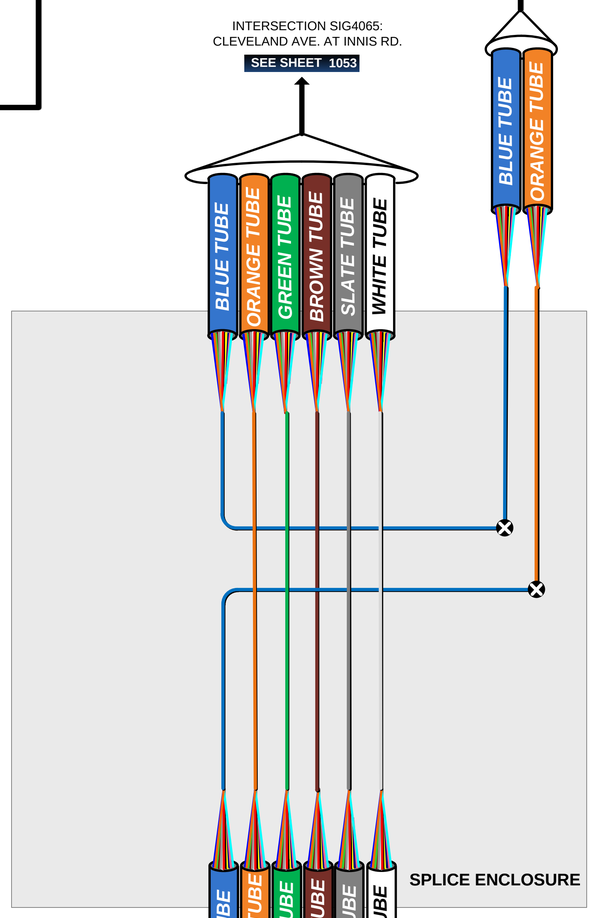


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION SIG4065:
CLEVELAND AVE. AT INNIS RD.
SEE SHEET 1053



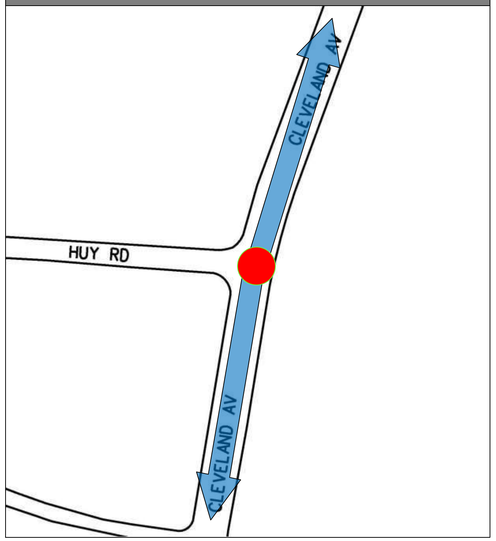
SEE SHEET 890
INTERSECTION 3154: CLEVELAND AVE. AT OAKLAND PARK AVE.

144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION SIG4060

REFER TO SHEET 291 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4060: CLEVELAND AVE. AT HUY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1052
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 LH, 6 LH, 7, 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4055: CLEVELAND AVE. AT COOKE RD. AND PEGG RD.
SEE SHEET 1051

PORT 6: INTERSECTION 3154: CLEVELAND AVE. AT OAKLAND PARK AVE.
SEE SHEET 890

TERMINAL SERVER

10/100 Mbs
RS232 #1
RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION SIG4070:
CLEVELAND AVE. AT ELMORE AVE.
SEE SHEET 1054

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

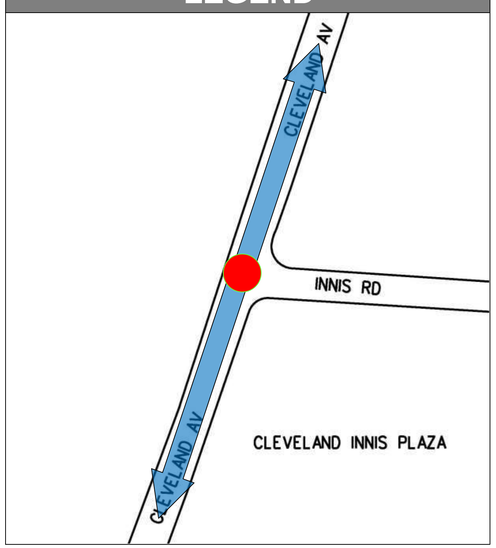
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1052
INTERSECTION SIG4060:
CLEVELAND AVE. AT HUY RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4065

REFER TO SHEET 292 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4065: CLEVELAND AVE. AT INNIS RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1053
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4360: CLEVELAND AVE. AT CTFD
SEE SHEET 1058

PORT 6: INTERSECTION SIG4060: CLEVELAND AVE. AT HUY RD.
SEE SHEET 1052

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION SIG4055:
CLEVELAND AVE. AT COOKE RD.
AND PEGG RD.
SEE SHEET 1051

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

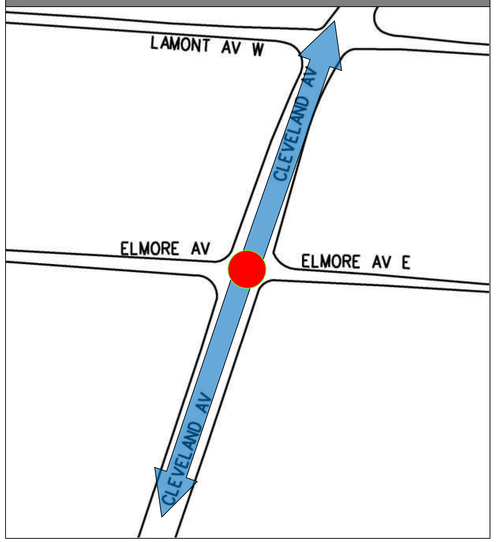
SEE SHEET 1053

INTERSECTION SIG4065:
CLEVELAND AVE. AT INNIS RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4070

REFER TO SHEET 294 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4070: CLEVELAND AVE. AT ELMORE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4 (10/100 MBS)

100/1000 SFP: 5 6 7 8 (5 LH, 6 LH)

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4720: FISHINGER BLVD. AT SMILEY RD.
SEE SHEET 1059

PORT 6: INTERSECTION 4213: FISHINGER BLVD. AT MILL RUN DR.
SEE SHEET 971

PORT 3: INTERSECTION SIG4105: DUBLIN RD. AT HILLIARD-CEMETERY RD.
SEE SHEET 1056

WIRELESS LINK TO INTERSECTION SIG4105: DUBLIN RD. AT HILLIARD-CEMETERY RD.

SEE SHEET 1056

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

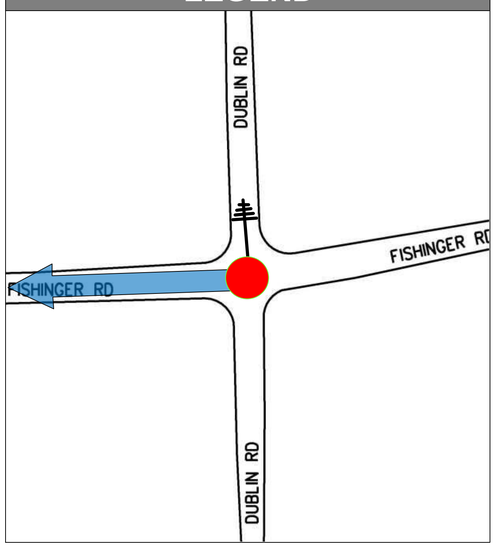
SEE SHEET 1059

INTERSECTION SIG4720:
FISHINGER BLVD. AT SMILEY RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4100

REFER TO SHEET 337 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4100: DUBLIN RD AT FISHINGER RD
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8
		10/100 Mbs					

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION SIG4100: DUBLIN RD AT FISHINGER RD
SEE SHEET 1055

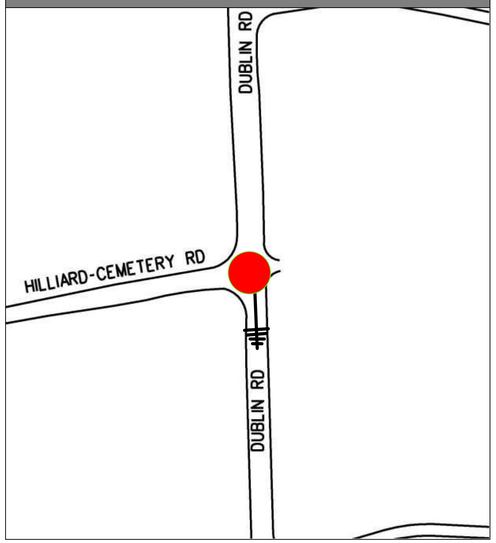
SEE SHEET 1055

WIRELESS LINK TO
INTERSECTION SIG4100: DUBLIN
RD AT FISHINGER RD

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION SIG4105

REFER TO SHEET 338 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4105: DUBLIN RD. AT HILLIARD-CEMETERY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4795: HAVENS CORNERS RD. AT WAGGONER RD.
SEE SHEET 1061

PORT 6: INTERSECTION SIG4815: TAYLOR RD. AT TAYLOR STATION RD.
SEE SHEET 1062

PORT 7: INTERSECTION SIG4050: CLARK STATE RD. AT REYNOLDSBURG-NEW ALBANY RD.
SEE SHEET 1050

TERMINAL SERVER

- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER

- RS232

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE : (2) - 24 TERMINATION

24 STRAND FIBER OPTIC DROP CABLE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION SIG4050: CLARK STATE RD. AT REYNOLDSBURG-NEW ALBANY RD.
SEE SHEET 1050

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SEE SHEET 1063
INTERSECTION SIG4820: HAVENS CORNER RD. AT TAYLOR STATION RD.

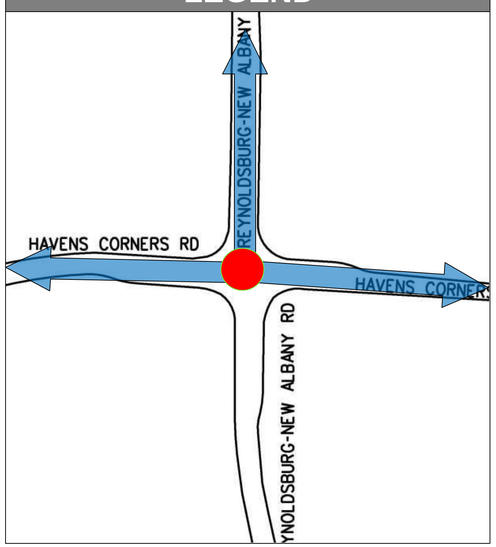
SEE SHEET 1061
INTERSECTION SIG4795: HAVENS CORNERS RD. AT WAGGONER RD.

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4180

REFER TO SHEET 325 FOR CONSTRUCTION PLAN DETAILS

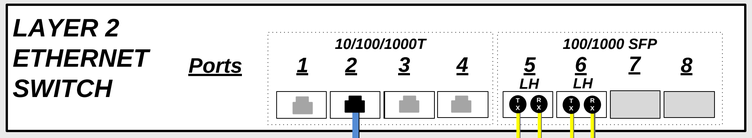
PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4180: HAVENS CORNERS RD. AT REYNOLDSBURG-NEW ALBANY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1057
1107

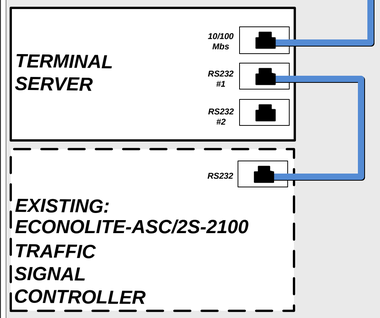
TRAFFIC SIGNAL CABINET ASSEMBLY



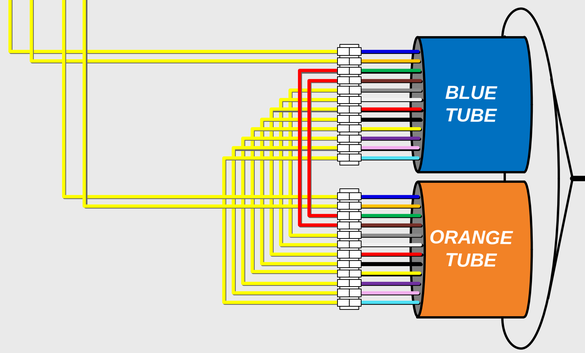
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION N062: CLEVELAND AVE. AT HUNTINGTON BANK DR.
SEE SHEET 1049

PORT 6: INTERSECTION SIG4070: CLEVELAND AVE. AT ELMORE AVE.
SEE SHEET 1054

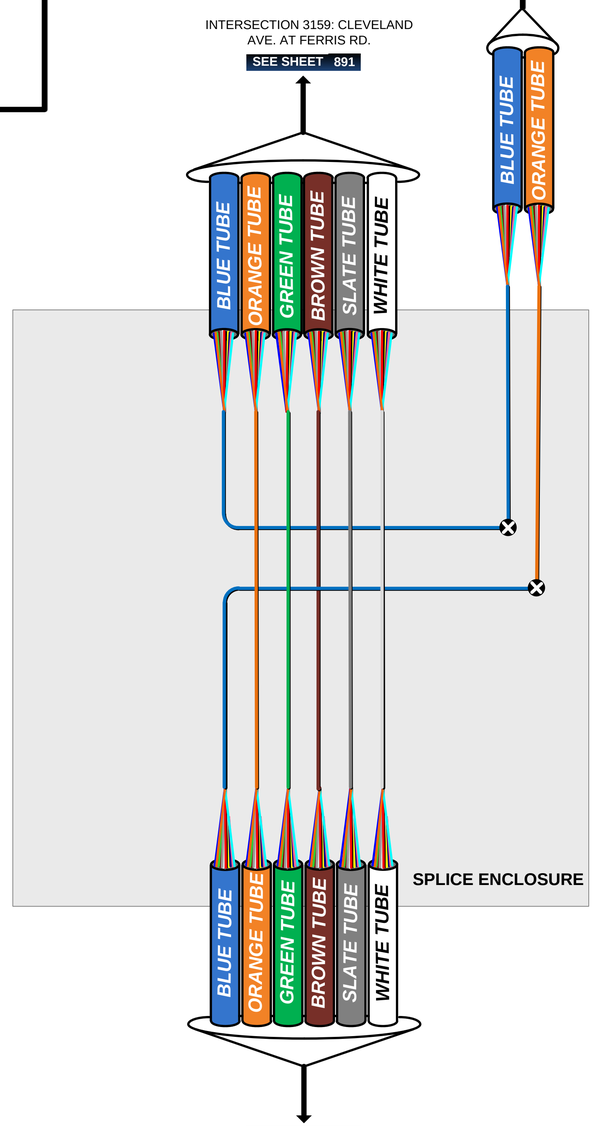


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION 3159: CLEVELAND AVE. AT FERRIS RD.
SEE SHEET 891



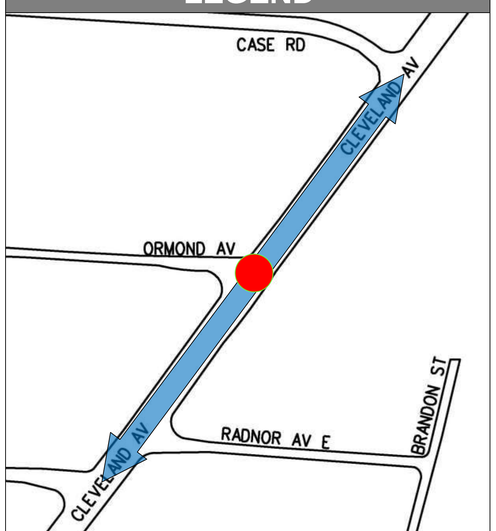
SEE SHEET 1050
INTERSECTION SIG4055:
CLEVELAND AVE. AT COOKE RD.
AND PEGG RD.

144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION SIG4360

REFER TO SHEET 295 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4360: CLEVELAND AVE. AT CTFD
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH — **Ports**

10/100/1000T: 1 2 3 4 — 100/1000 SFP: 5 6 7 8 (5 LH, 6 LH)

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4100: DUBLIN RD AT FISHINGER RD
SEE SHEET 1055

PORT 6: INTERSECTION 4214: FISHINGER BLVD. AT SPRING MILLS DR.
SEE SHEET 972

TERMINAL SERVER
- 10/100 Mbs
- RS232 #1
- RS232 #2

EXISTING: ECONOLITE-ASC/2S-2100 TRAFFIC SIGNAL CONTROLLER
- RS232 #2

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

SPLICE ENCLOSURE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE

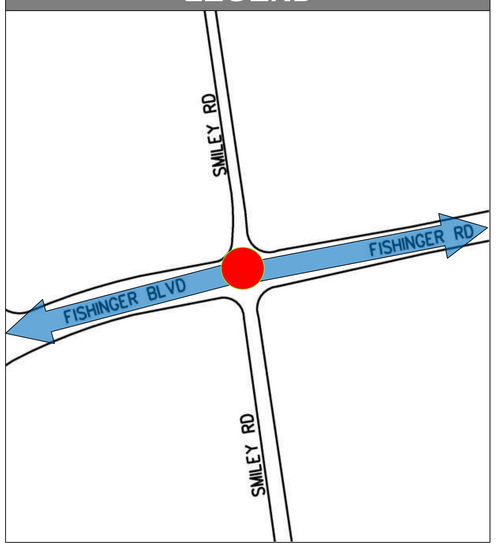
SEE SHEET 971
INTERSECTION 4213: FISHINGER BLVD. AT MILL RUN DR.

SEE SHEET 1055
INTERSECTION SIG4100: DUBLIN RD AT FISHINGER RD

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4720
REFER TO SHEET 348 FOR CONSTRUCTION PLAN DETAILS

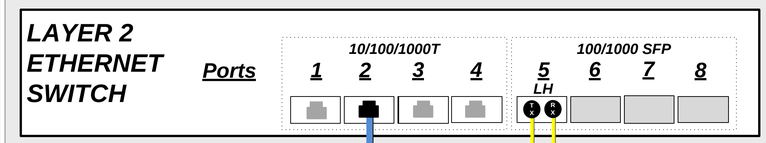
PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4720: FISHINGER BLVD. AT SMILEY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

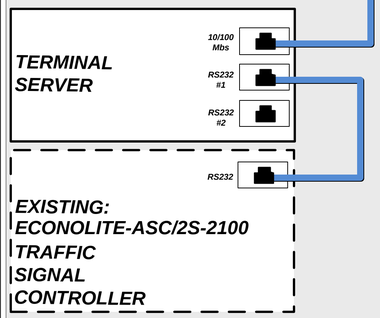
1059
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

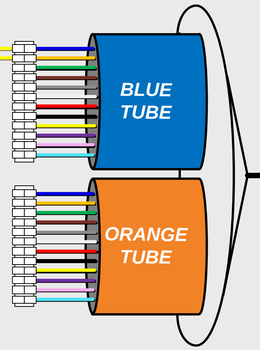


ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3081: E. BROAD ST. AT MCNAUGHTEN RD.
SEE SHEET 884

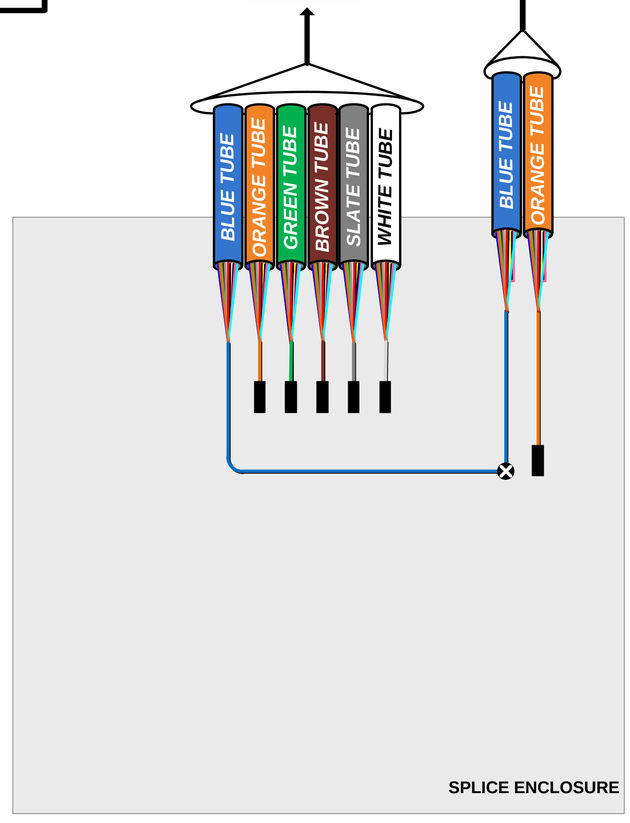


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION 3081: E. BROAD ST. AT MCNAUGHTEN RD.
SEE SHEET 884

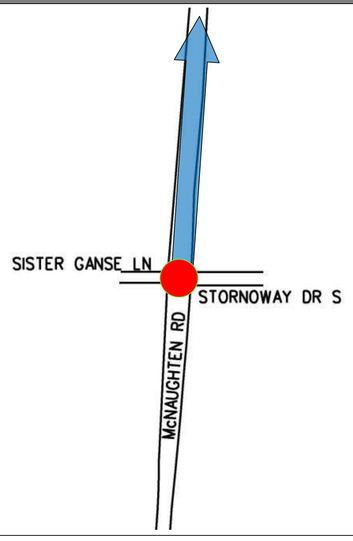


SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4790
REFER TO SHEET 321 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4790: MCNAUGHTEN RD. AT GANSE LN
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 (10/100 MBS) 4 — 100/1000 SFP: 5 (LH) 6 (LH) 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4180: HAVENS CORNERS RD. AT REYNOLDSBURG-NEW ALBANY RD.
SEE SHEET 1057

PORT 6: INTERSECTION SIG4820: HAVENS CORNER RD. AT TAYLOR STATION RD.
SEE SHEET 1063

PORT 3: INTERSECTION SIG4840: JEFFERSON RUN & ROYAL ELM DR. AT WAGGONER RD.
SEE SHEET 1064

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

SEE SHEET 1064

WIRELESS LINK TO INTERSECTION SIG4840: JEFFERSON RUN & ROYAL ELM DR. AT WAGGONER RD.

BLUE TUBE

ORANGE TUBE

SEE SHEET 1057

INTERSECTION SIG4180: HAVENS CORNERS RD. AT REYNOLDSBURG-NEW ALBANY RD.

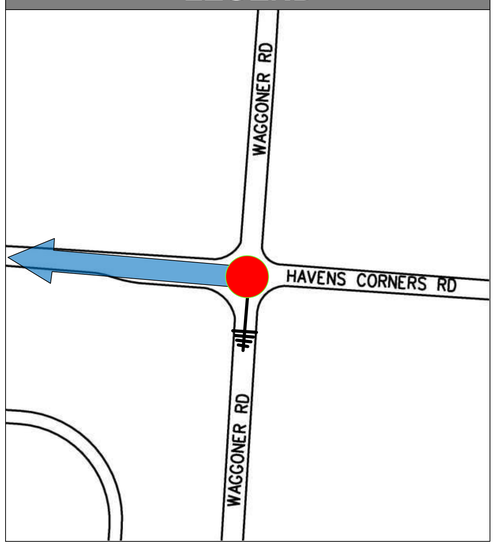
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4795

REFER TO SHEET 326 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4795: HAVENS CORNERS RD. AT WAGGONER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7 LH	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4180: HAVENS CORNERS RD. AT REYNOLDSBURG-NEW ALBANY RD.
SEE SHEET 1057

PORT 6: INTERSECTION SIG4820: HAVENS CORNER RD. AT TAYLOR STATION RD.
SEE SHEET 1063

PORT 7: PROPOSED COMMUNICATION NODE 270037.4: I-270 AT HAMILTON RD.
SEE SHEET 1098

10/100 Mbs

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION SIG4820: HAVENS CORNER RD. AT TAYLOR STATION RD.
SEE SHEET 1063

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE

BLUE TUBE | ORANGE TUBE

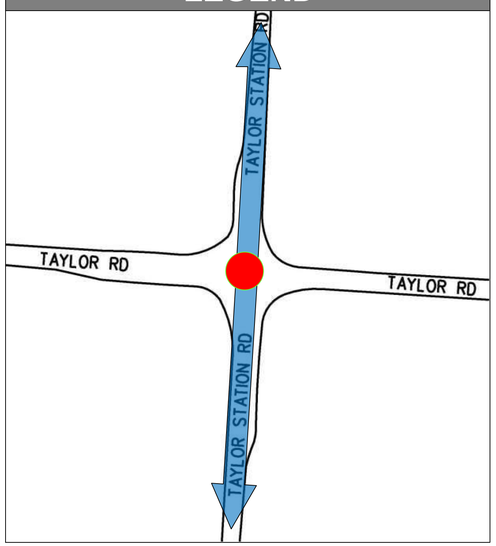
SPLICE ENCLOSURE

SEE SHEET 1076

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SPLICE - 3: GAHANNA TRUNK 5: CLAYCRAFT RD. AT TAYLOR STATION RD.

INTERSECTION SIG4815

REFER TO SHEET 327 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4815: TAYLOR RD. AT TAYLOR STATION RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T: 1 2 3 4

100/1000 SFP: 5 (LH) 6 (LH) 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4795: HAVENS CORNERS RD. AT WAGGONER RD.
SEE SHEET 1061

PORT 6: INTERSECTION SIG4815: TAYLOR RD. AT TAYLOR STATION RD.
SEE SHEET 1062

PROPOSED:

TRAFFIC SIGNAL CONTROLLER

10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

WHITE TUBE

SEE SHEET 1057

INTERSECTION SIG4180: HAVENS CORNERS RD. AT REYNOLDSBURG-NEW ALBANY RD.

SPLICE ENCLOSURE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

WHITE TUBE

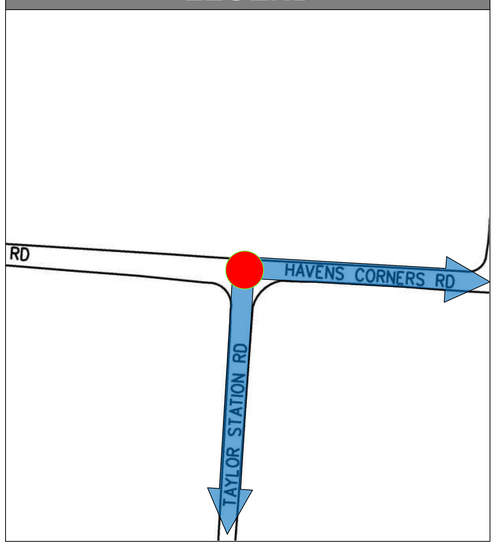
SEE SHEET 1062

INTERSECTION SIG4815: TAYLOR RD. AT TAYLOR STATION RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4820

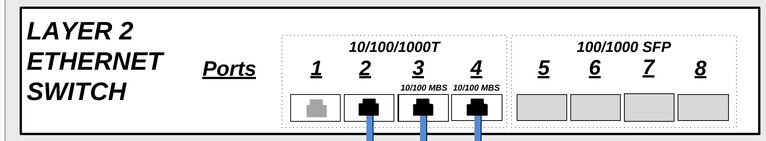
REFER TO SHEET 328 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4820: HAVENS CORNER RD. AT TAYLOR STATION RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

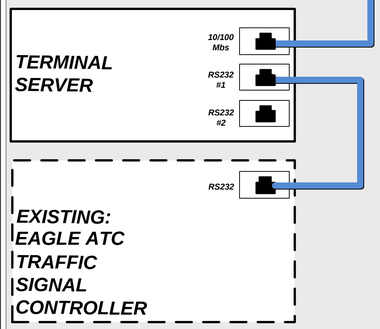
TRAFFIC SIGNAL CABINET ASSEMBLY



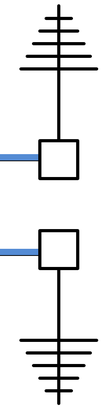
ETHERNET SWITCH PORT DESTINATION

PORT 3: INTERSECTION SIG4795: HAVENS CORNERS RD. AT WAGGONER RD.
SEE SHEET 1061

PORT 4: INTERSECTION 3306: KENNEDY RD. AT WAGGONER RD.
SEE SHEET 913



WIRELESS LINK TO
INTERSECTION SIG4795: HAVENS
CORNERS RD. AT WAGGONER RD.
SEE SHEET 1061



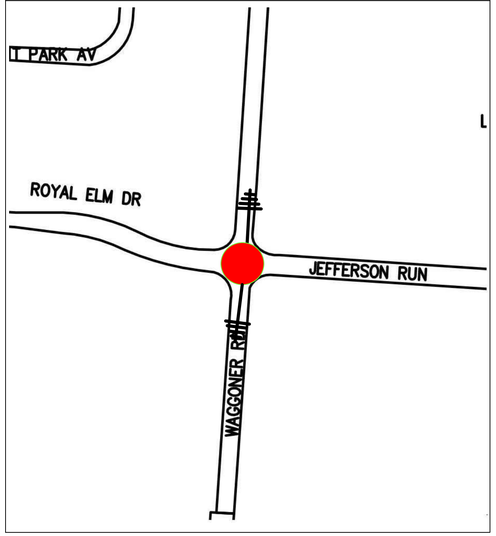
SEE SHEET 913

WIRELESS LINK TO
INTERSECTION 3306: KENNEDY RD.
AT WAGGONER RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION SIG4840

REFER TO SHEET 333 FOR CONSTRUCTION PLAN DETAILS

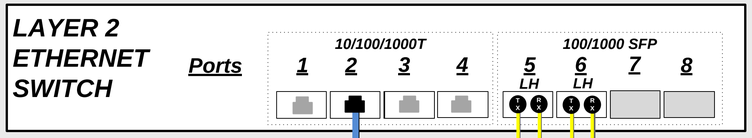
PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4840: JEFFERSON RUN & ROYAL ELM DR. AT WAGGONER RD. COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

1064
1107

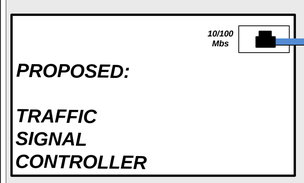
TRAFFIC SIGNAL CABINET ASSEMBLY



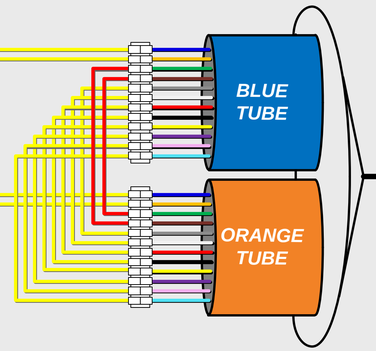
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4875: REYNOLDSBURG-NEW ALBANY RD. AT TAYLOR RD.
SEE SHEET 1067

PORT 6: INTERSECTION 3083: E. BROAD ST. AT REYNOLDSBURG NEW ALBANY RD.
SEE SHEET 886

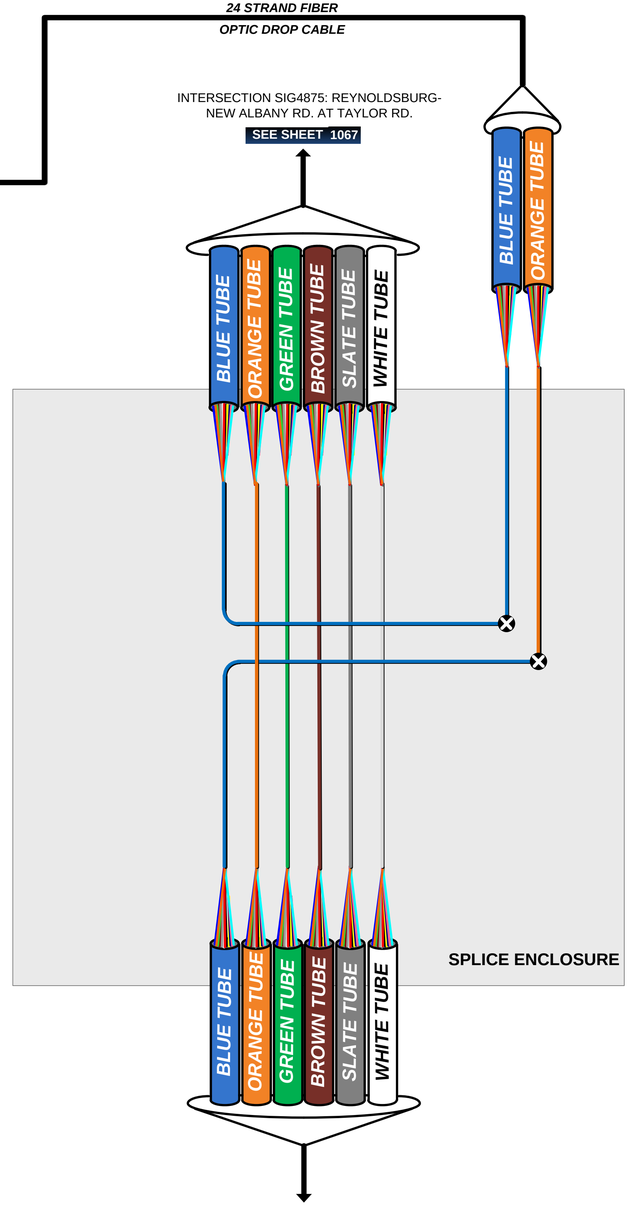


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION SIG4875: REYNOLDSBURG-
NEW ALBANY RD. AT TAYLOR RD.
SEE SHEET 1067



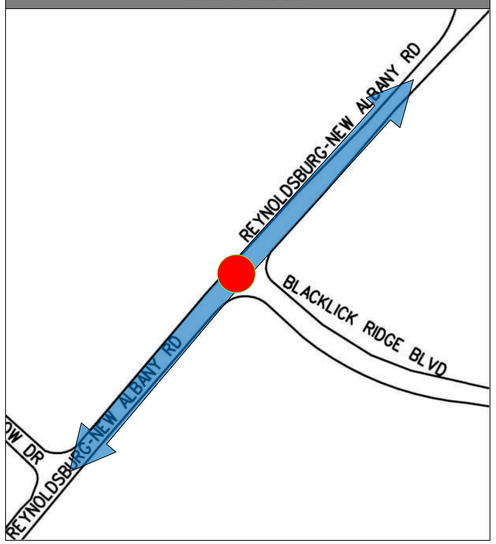
144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SEE SHEET 886
INTERSECTION 3083: E. BROAD ST. AT
REYNOLDSBURG NEW ALBANY RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION SIG4845

REFER TO SHEET 329 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4845: BLACKLICK RIDGE RD. AT REYNOLDSBURG-NEW ALBANY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1065
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8
		10/100 Mbs					

ETHERNET SWITCH PORT DESTINATION

PORT 3: REPEATER R-02: WAGGONER RD. AT WAGGONER RD. SCHOOL
SEE SHEET 1078

WIRELESS LINK TO
REPEATER R-02: WAGGONER
RD. AT WAGGONER RD. SCHOOL
SEE SHEET 1078

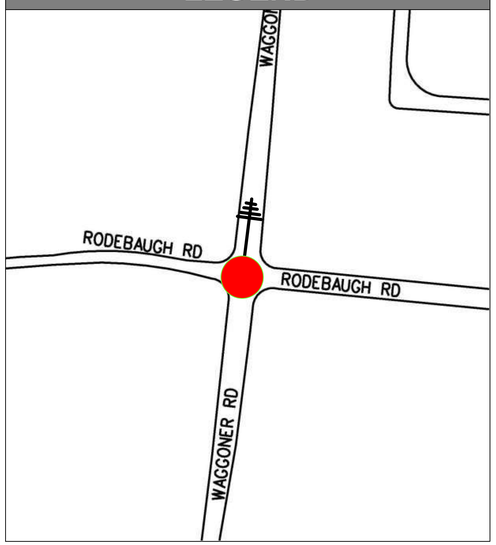
10/
100Mbs
ETHERNET MODULE

EXISTING:
ECONOLITE-ASC/3
TRAFFIC
SIGNAL
CONTROLLER

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION SIG4855
REFER TO SHEET 331 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

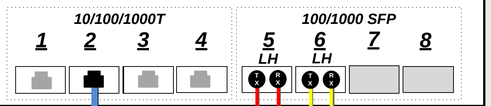
INTERSECTION SIG4855: RODEBAUGH AT WAGGONER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

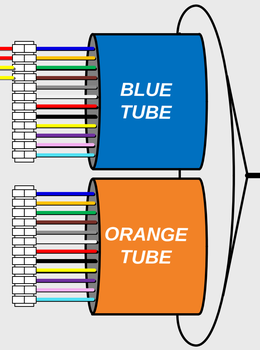


ETHERNET SWITCH PORT DESTINATION

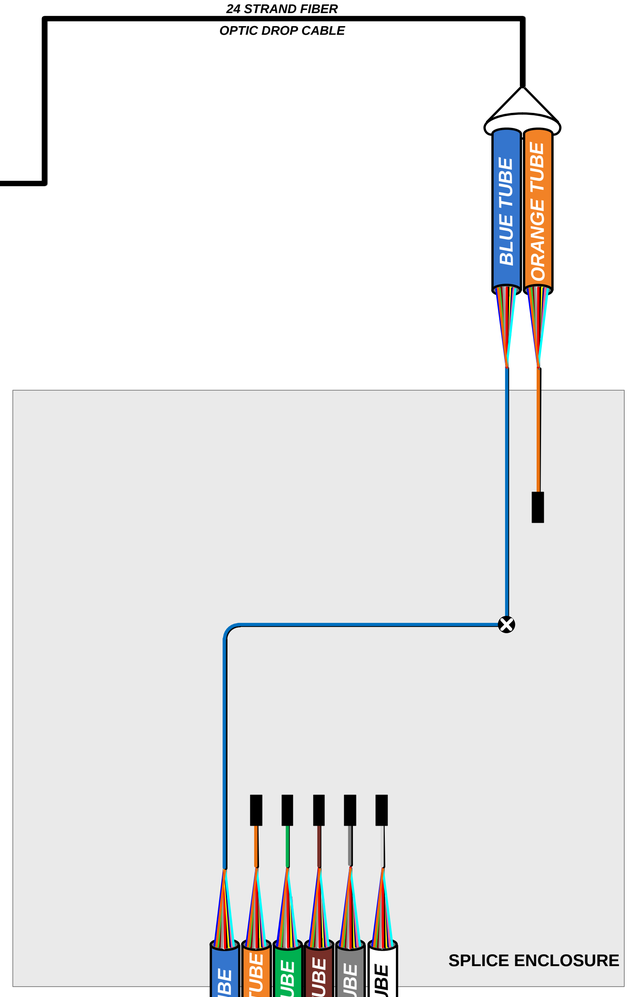
PORT 5: INTERSECTION SIG4845: BLACKLICK RIDGE RD. AT REYNOLDSBURG-NEW ALBANY RD.
SEE SHEET 1065

PORT 6: INTERSECTION 3083: E. BROAD ST. AT REYNOLDSBURG NEW ALBANY RD.
SEE SHEET 886

PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE





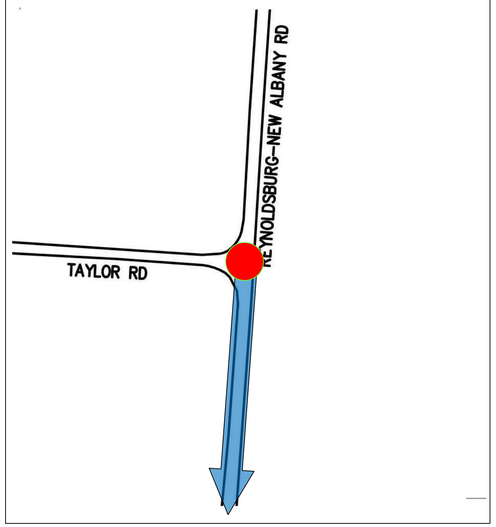
EXISTING: EAGLE ATC TRAFFIC SIGNAL CONTROLLER

SEE SHEET 1065

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4845: BLACKLICK RIDGE RD. AT REYNOLDSBURG-NEW ALBANY RD.

INTERSECTION SIG4875

REFER TO SHEET 334 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4875: REYNOLDSBURG-NEW ALBANY RD. AT TAYLOR RD. COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

10/100Mbs ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4146: GEORGESVILLE RD. AT SHOPPERS LANE SOUTH
SEE SHEET 1070

PORT 6: INTERSECTION 1035: ATLANTA DR. AT GEORGESVILLE RD.
SEE SHEET 867

24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION SIG4140: GEORGESVILLE RD. AT LINCOLN PARK CT.
SEE SHEET 1069

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

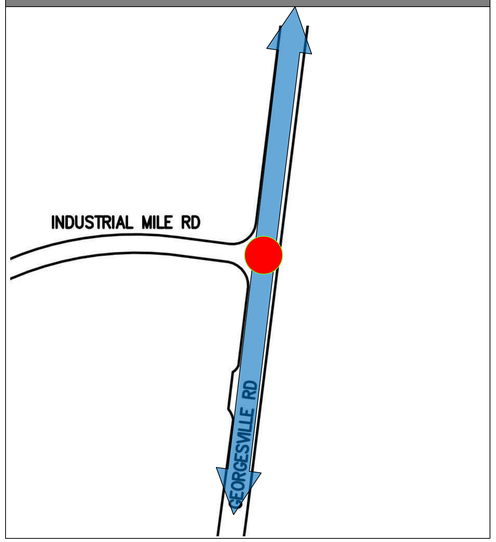
SEE SHEET 866

INTERSECTION 1034: GEORGESVILLE RD. AT SULLIVANT AVE. NORTH

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION GEOIND

REFER TO SHEET 369 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

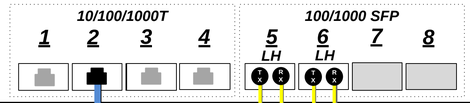
INTERSECTION GEOIND: GEORGESVILLE RD. AT INDUSTRIAL MILE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports



ETHERNET SWITCH PORT DESTINATION

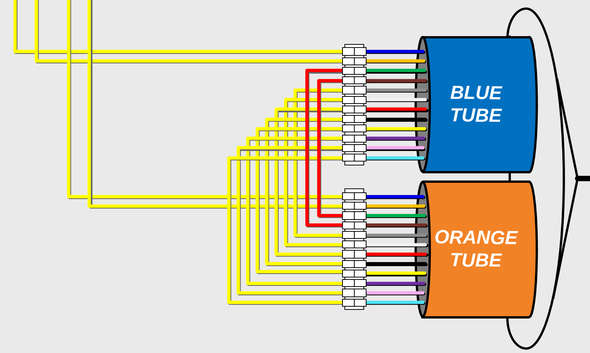
PORT 5: INTERSECTION SIG4145: GEORGESVILLE RD. AT SHOPPERS LANE NORTH
SEE SHEET 1071

PORT 6: INTERSECTION 1034: GEORGESVILLE RD. AT SULLIVANT AVE. NORTH
SEE SHEET 866

EXISTING: ECONOLITE-ASC/3 TRAFFIC SIGNAL CONTROLLER

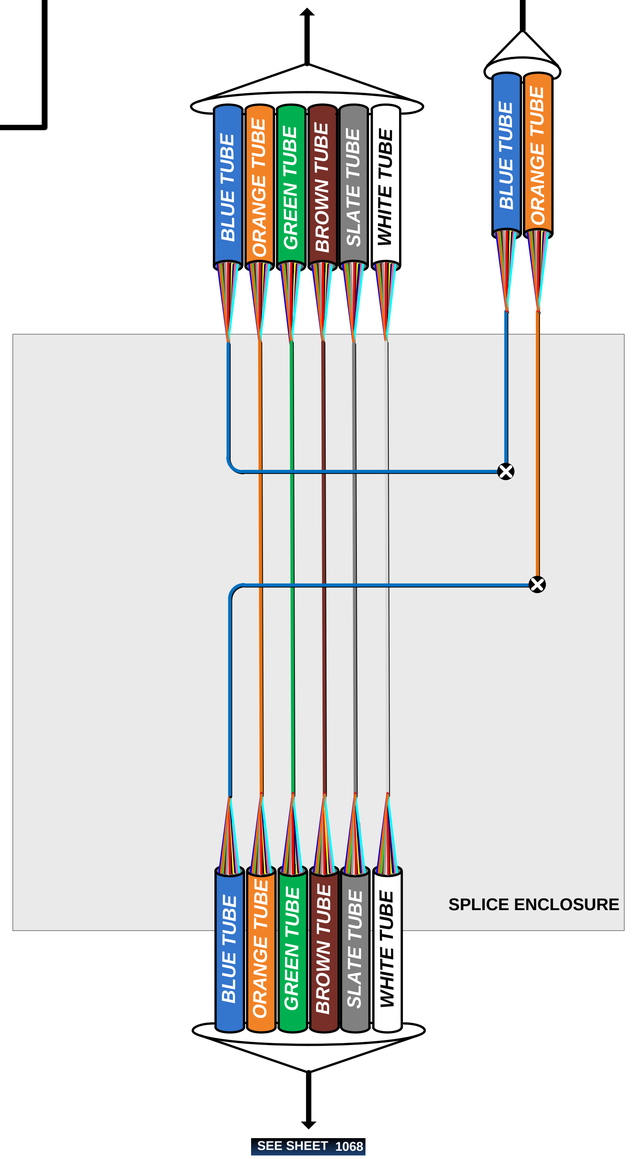
10/100MBs ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER OPTIC DROP CABLE

INTERSECTION SIG4146: GEORGESVILLE RD. AT SHOPPERS LANE SOUTH
SEE SHEET 1070



SEE SHEET 1068

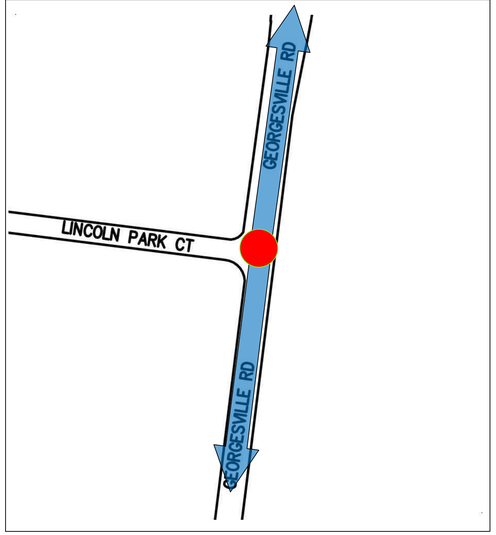
144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION GEOIND: GEORGESVILLE RD. AT INDUSTRIAL MILE RD.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



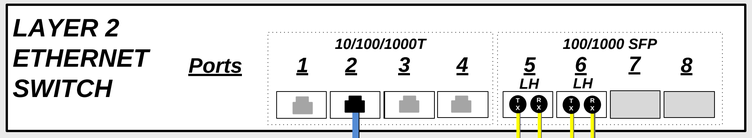
INTERSECTION SIG4140
REFER TO SHEET 365 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4140: GEORGESVILLE RD. AT LINCOLN PARK CT.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

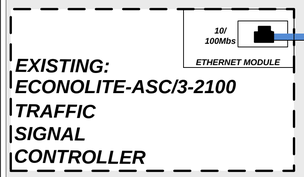
TRAFFIC SIGNAL CABINET ASSEMBLY



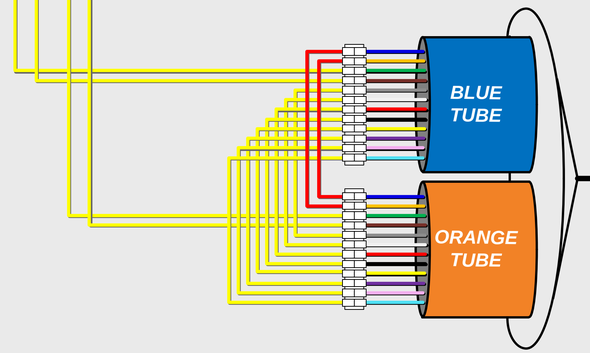
ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4145: GEORGESVILLE RD. AT SHOPPERS LANE NORTH
SEE SHEET 1071

PORT 6: INTERSECTION GEOIND: GEORGESVILLE RD. AT INDUSTRIAL MILE RD.
SEE SHEET 1068

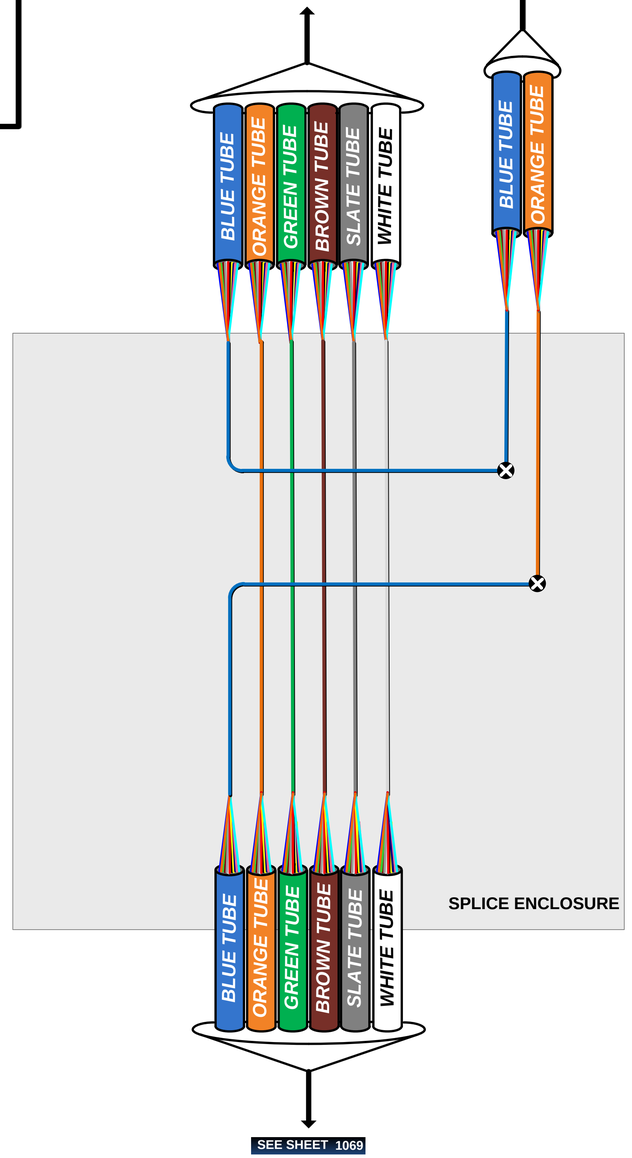


PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND FIBER
OPTIC DROP CABLE

INTERSECTION SIG6904:
GEORGESVILLE RD. AT SHOPPERS
LANE NORTH
SEE SHEET 1071

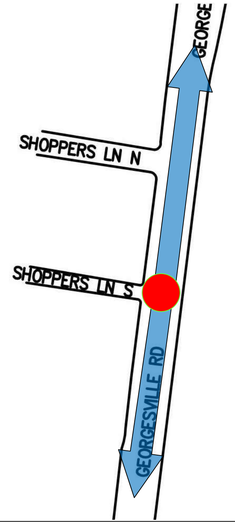


SEE SHEET 1069

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE
TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4140: GEORGESVILLE RD. AT LINCOLN PARK CT.

INTERSECTION SIG4146
REFER TO SHEET 366 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4146: GEORGESVILLE RD. AT SHOPPERS LANE SOUTH
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 LH	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION SIG4146: GEORGESVILLE RD. AT SHOPPERS LANE SOUTH
SEE SHEET 1070

PORT 6: INTERSECTION SIG4140: GEORGESVILLE RD. AT LINCOLN PARK CT.
SEE SHEET 1069

EXISTING: ECONOLITE-ASC/3-2100 TRAFFIC SIGNAL CONTROLLER

10/100MBs ETHERNET MODULE

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

FUTURE CONNECTION. FIBER OPTIC CABLE COILED IN PULL BOX.

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

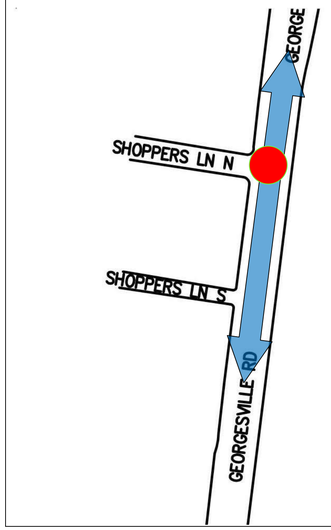
SPLICE ENCLOSURE

SEE SHEET 1070

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

INTERSECTION SIG4146: GEORGESVILLE RD. AT SHOPPERS LANE SOUTH

INTERSECTION SIG4145

REFER TO SHEET 368 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

INTERSECTION SIG4145: GEORGESVILLE RD. AT SHOPPERS LANE NORTH
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

PID NUMBER 13034
2762 DR. E

TRAFFIC SIGNAL REMOVED FROM PLANSET

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1072
1107

INTERSECTION Bth315NB

TMC - COMMUNICATION HUB

LAYER 3 ETHERNET SWITCH (SEE NOTE #2 – THIS SHEET)

Ports	1	2	3	4	5	6	7	8	9	10	11	12
SFP Modules	LH	LH	LH	LH	LH	LH	LH	LH	LH			

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 0033: FRONT ST. AT GAY ST.
SEE SHEET 791

PORT 2: INTERSECTION 0034: GAY ST. AT HIGH ST.
SEE SHEET 792

PORT 3: INTERSECTION 0039: BROAD ST. AT CIVIC CENTER DR. & MARCONI BLVD.
SEE SHEET 796

PORT 4: INTERSECTION 0022: LONG ST. AT MARCONI BLVD.
SEE SHEET 781

PORT 5: INTERSECTION 0035: GAY ST. AT THIRD ST.
SEE SHEET 793

PORT 6: INTERSECTION 0036: FOURTH ST. AT GAY ST.
SEE SHEET 794

PORT 7: INTERSECTION 0056: STATE ST. AT THIRD ST.
SEE SHEET 813

PORT 8: EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670 (LAYER 3 LINK)
SEE SHEET 1107A

PORT 9: EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670 (LAYER 2 TRUNK LINK)
SEE SHEET 1107A

144 COUNT LC PATCH PANEL – C.T.S.S. TERMINATIONS

BLUE TUBE
ORANGE TUBE
GREEN
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED
BLACK
YELLOW
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 COUNT LC PATCH PANEL – D.O.T. TERMINATIONS

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

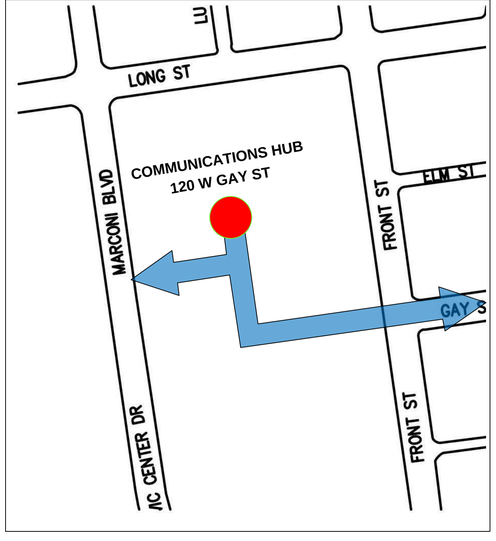
144SMF DROP CABLE C.T.S.S.

144SMF DROP CABLE D.O.T.

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- TERMINATION PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



NOTES:

1. *CISCO 3750 NETWORK SWITCH WITH 12 SFP MODULE CAPACITY TO BE FURNISHED AND CONIFGURED AT SITE BY CITY OF COLUMBUS.*
2. *PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT SPLICE ENCLOSURE LOCATION.*

144SMF CABLE MARCONI TRUNK

SEE SHEET 1083

SPLICE - 2: MARCONI AT TMC HUB

SPLICE ENCLOSURE

144SMF CABLE GAY ST TRUNK

SEE SHEET 791

INTERSECTION 0033: FRONT ST. AT GAY ST.

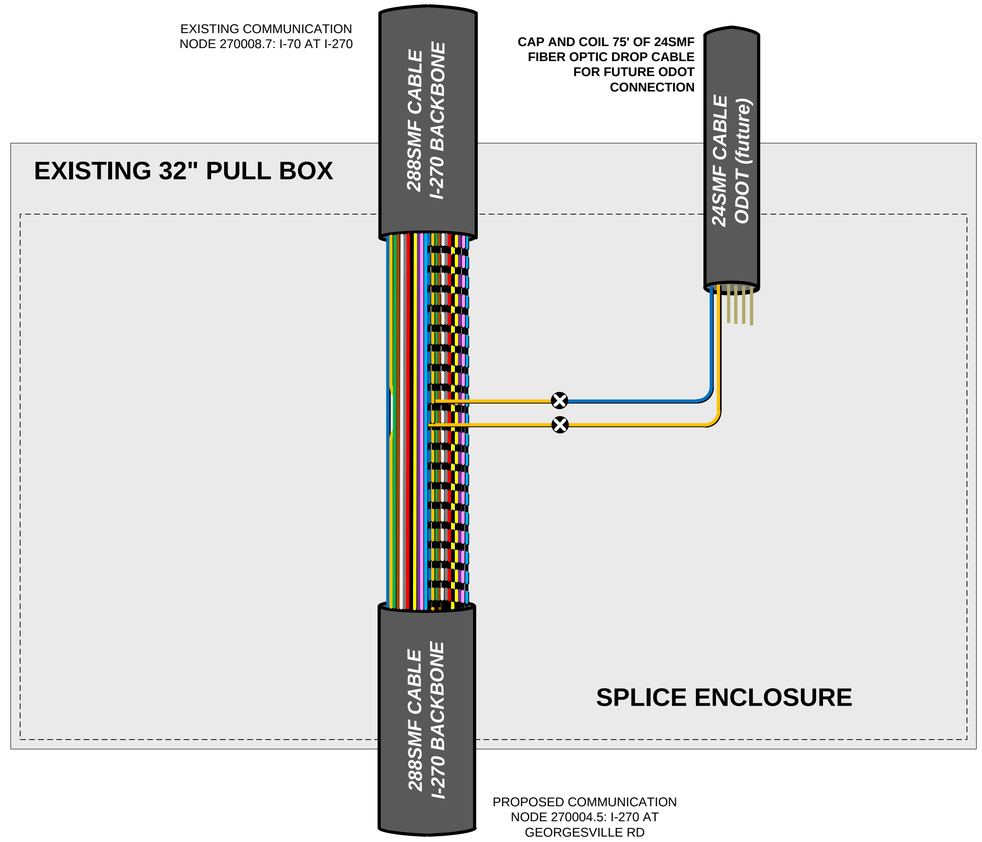
TMC COMMUNICATION HUB

REFER TO SHEET 491 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

COMMUNICATION HUB: 77 N. FRONT ST.
COMMUNICATIONS DIAGRAM

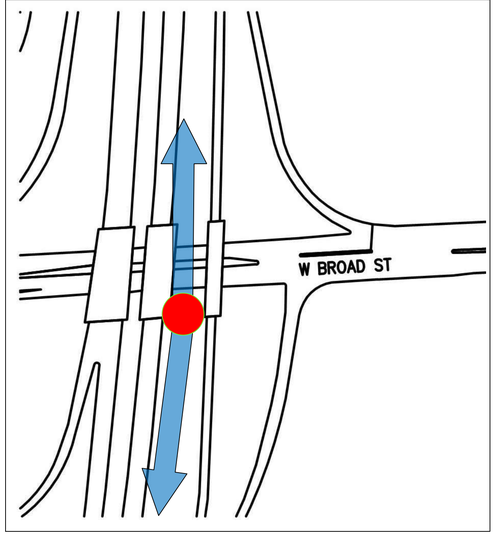
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM ; (CTSS) PHASE B - AS BUILT (DRAFT)



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



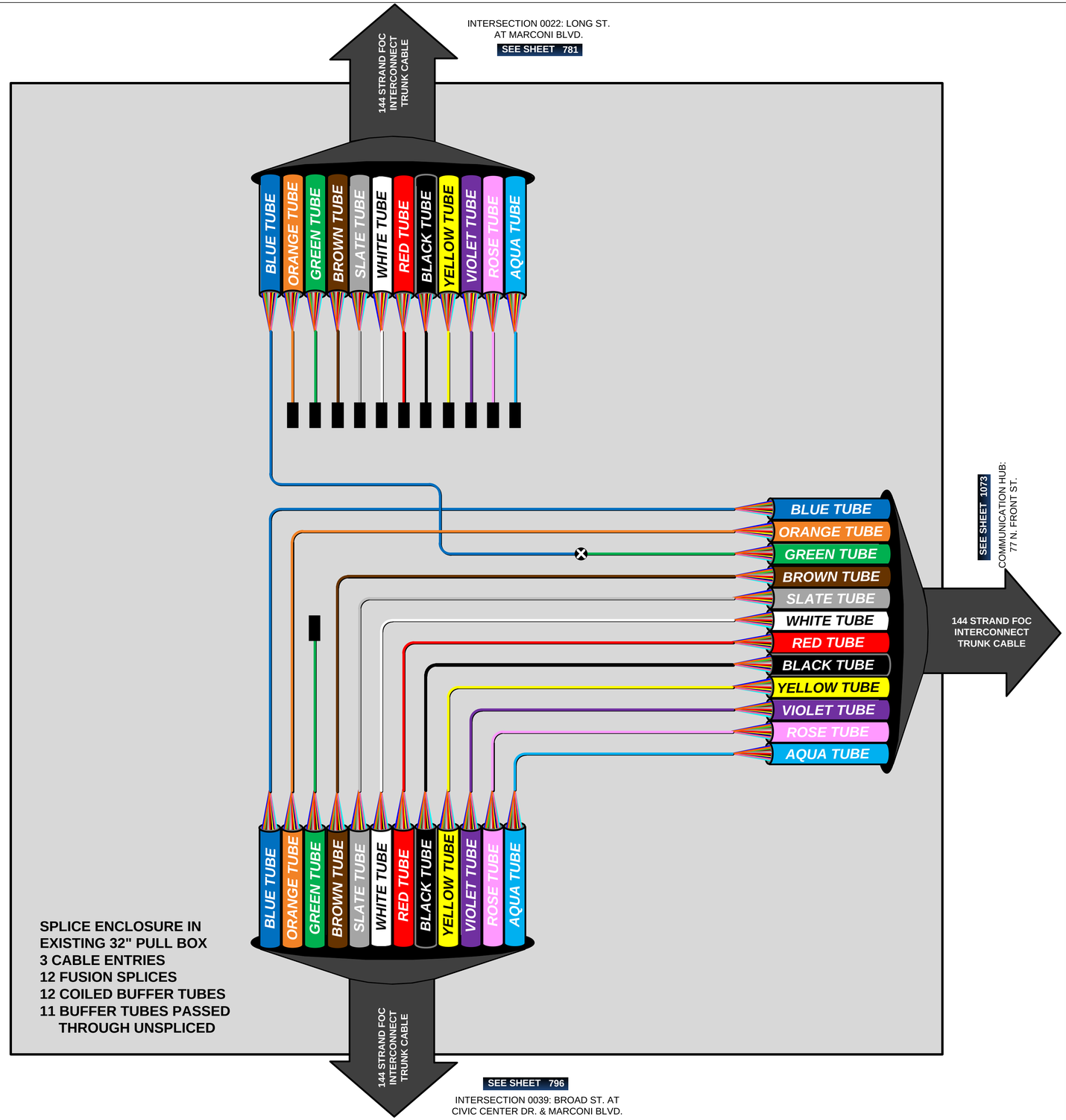
SPLICE-1 – ODOT DROP I-270 AT W BROAD ST

REFER TO SHEET 655 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

SPLICE - 1: I-270 AT W BROAD ST.
COMMUNICATIONS DIAGRAM

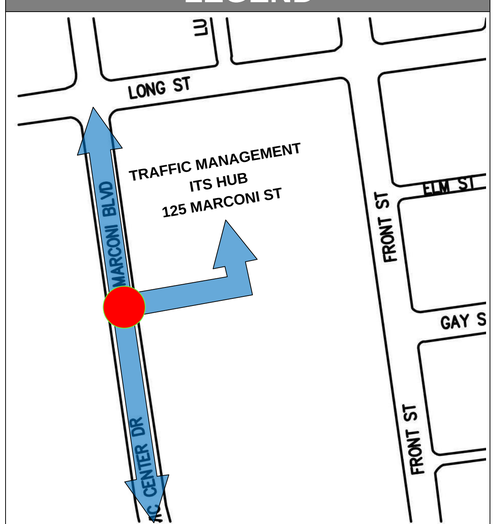
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



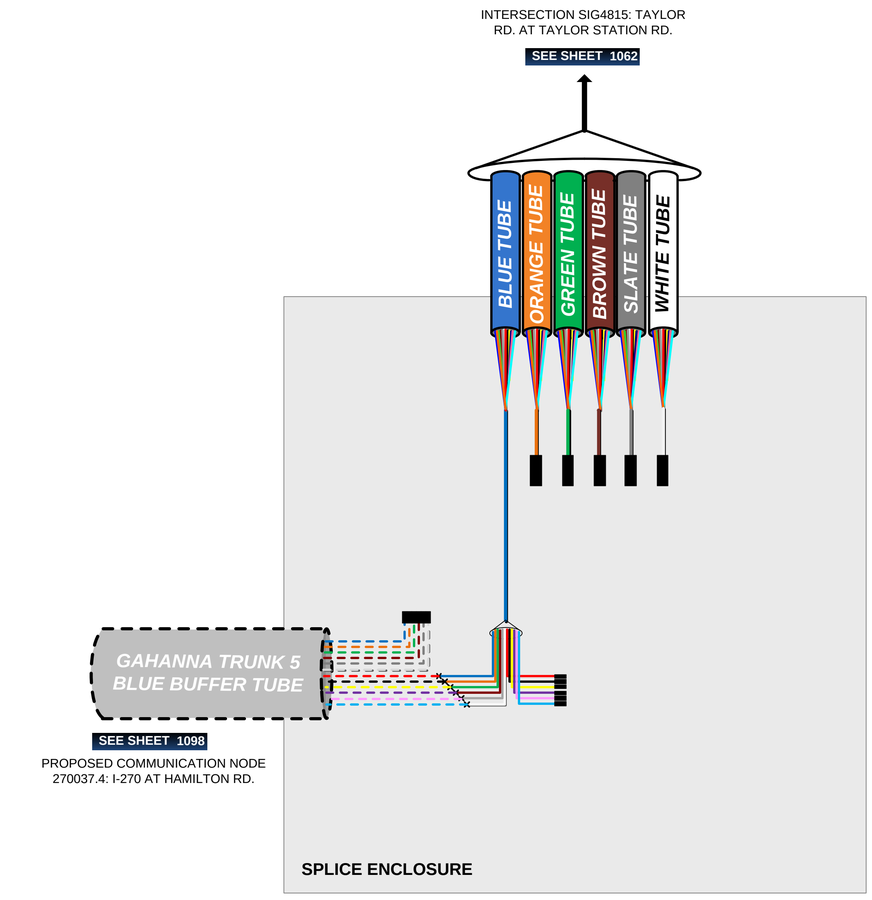
SPLICE-2 – FIBER DROP TO INT #0022

*REFER TO SHEET **495** FOR CONSTRUCTION PLAN DETAILS*

PID NUMBER 13034
2762 DR. E

SPLICE - 2: MARCONI AT TMC HUB
COMMUNICATIONS DIAGRAM

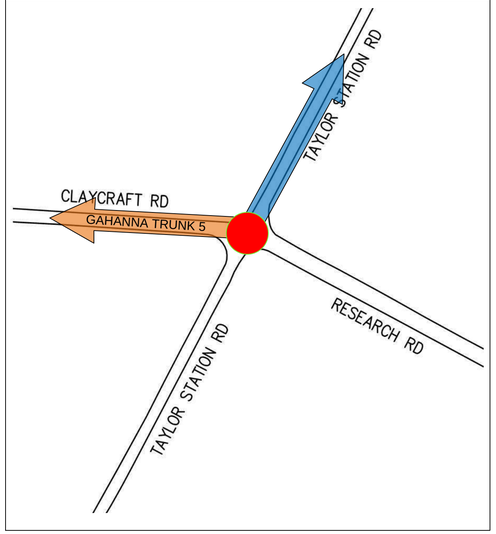
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 144 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

SPLICE-3 – GAHANNA TRUNK 5

REFER TO SHEET 620 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

SPLICE - 3: GAHANNA TRUNK 5: CLAYCRAFT RD. AT TAYLOR STATION RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5 LH	6 10/100 MBS	7	8

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.
SEE SHEET 1088

PORT 6: INTERSECTION 4258: EDWARDS FARM RD. AT HAYDEN RUN RD.
SEE SHEET 988

WIRELESS LINK TO
INTERSECTION 4258: EDWARDS
FARM RD. AT HAYDEN RUN RD.
SEE SHEET 988

TERMINATION PANEL

BLUE TUBE

ORANGE TUBE

24 STRAND FIBER OPTIC DROP CABLE

EXISTING COMMUNICATION NODE
270015.6: I-270 AT TUTTLE
CROSSING BLVD.
SEE SHEET 1088

24 STRAND FIBER OPTIC DROP CABLE

BLUE TUBE

ORANGE TUBE

BLUE TUBE

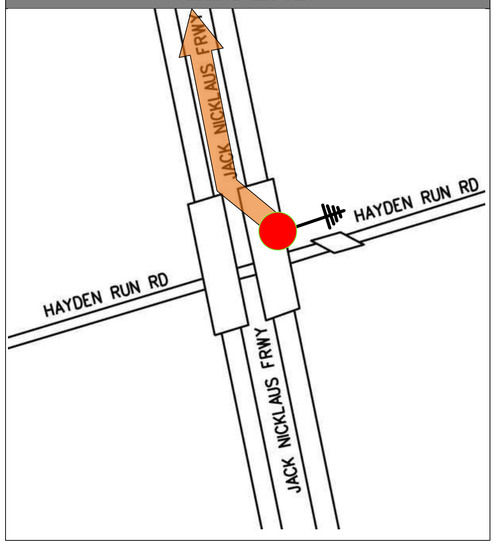
ORANGE TUBE

SPLICE ENCLOSURE

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 24 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



144-FIBER TRUNK CABLE

TUBES 7-12 (FIBERS 73-144 NOT SHOWN) USED BY OTHERS
*SEE SHEET **759** FOR TYPICAL FIBER SPLICING DIAGRAMS*

WIRELESS REPEATER R-01

REFER TO SHEET 663 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

REPEATER R-01: I-270 AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1077
1107

TRAFFIC SIGNAL CABINET ASSEMBLY

LAYER 2 ETHERNET SWITCH

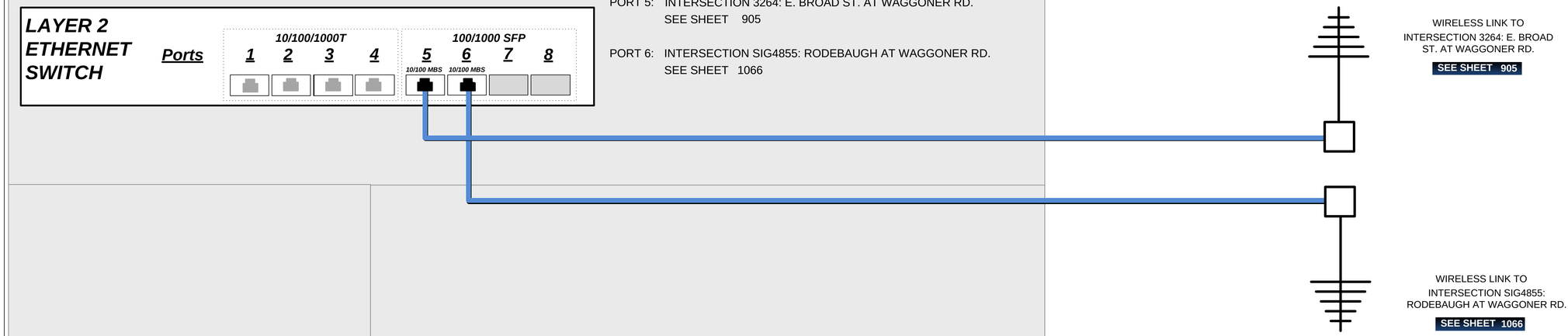
Ports

10/100/1000T				100/1000 SFP			
1	2	3	4	5	6	7	8
				10/100 MBS	10/100 MBS		

ETHERNET SWITCH PORT DESTINATION

PORT 5: INTERSECTION 3264: E. BROAD ST. AT WAGGONER RD.
SEE SHEET 905

PORT 6: INTERSECTION SIG4855: RODEBAUGH AT WAGGONER RD.
SEE SHEET 1066



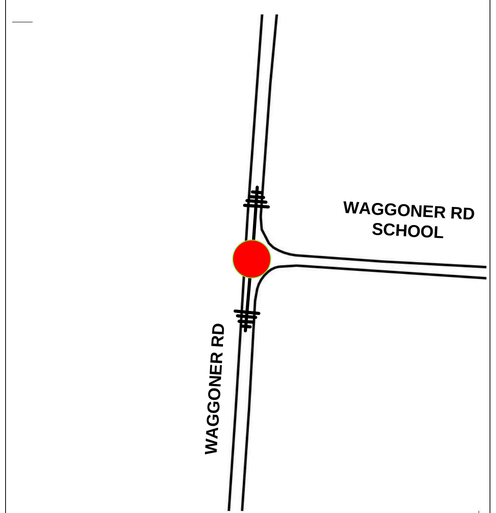
WIRELESS LINK TO
INTERSECTION 3264: E. BROAD
ST. AT WAGGONER RD.
SEE SHEET 905

WIRELESS LINK TO
INTERSECTION SIG4855:
RODEBAUGH AT WAGGONER RD.
SEE SHEET 1066

KEY

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- RJ-45 CONNECTION
- 24 STRAND SMF
- CITYNET FIBER
- FIBERNET FIBER
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

LEGEND



WIRELESS REPEATER R-02

REFER TO SHEET 335 FOR CONSTRUCTION PLAN DETAILS

PID NUMBER 13034
2762 DR. E

REPEATER R-02: WAGGONER RD. AT WAGGONER RD. SCHOOL
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

EXISTING COMMUNICATION
NODE 071113.4: I-71 AT E.
NORTH BROADWAY

288SMF CABLE NORTH
I-71 BACKBONE

EXISTING 32" PULL BOX

SPLICE ENCLOSURE
REFER TO SHEET 527 FOR CONSTRUCTION PLAN SHEET

288SMF CABLE SOUTH
I-71 BACKBONE

EXISTING COMMUNICATION
NODE 071109.0: I-71 AT I-670

144SMF CABLE EAST
TMCTRUNK

MATCHLINE A - SEE THIS SHEET

MATCHLINE A - SEE THIS SHEET

144SMF CABLE WEST
TMC TRUNK

EXISTING 32" PULL BOX

SPLICE ENCLOSURE
REFER TO SHEET 533 FOR CONSTRUCTION PLAN SHEET

144SMF CABLE

TRAFFIC MANAGEMENT CENTER
1881 E 25TH AVE
COMMUNICATIONS ROOM

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

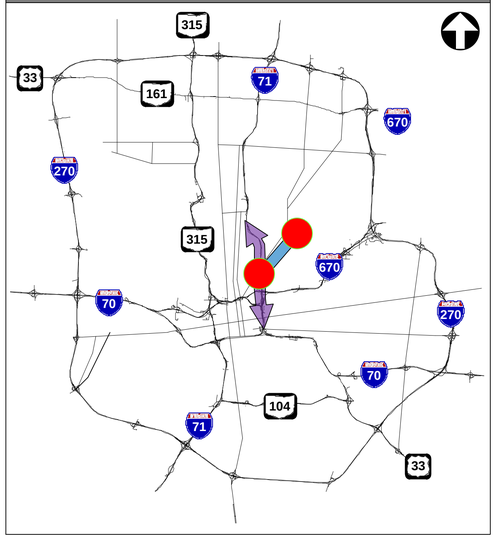
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- *LH/ZX* — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



TMC COMMUNICATIONS PATH
REFER TO SHEETS 527 THROUGH 533 FOR CONSTRUCTION PLAN SHEETS

PID NUMBER 13034
2762 DR. E

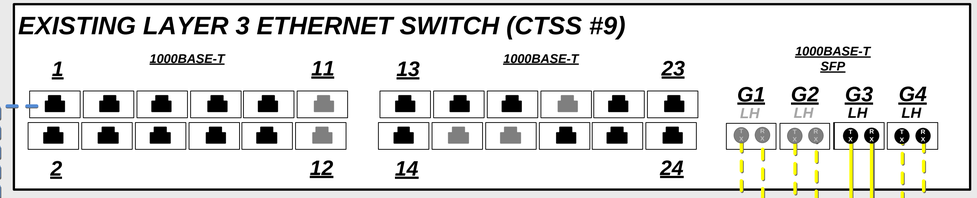
TMC COMMUNICATIONS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1079
1107

TRAFFIC MANAGEMENT CENTER
NETWORK/SERVER ROOM

EXISTING LAYER 3 ETHERNET SWITCH (CTSS #9)



EXISTING METRONET SWITCH

EXISTING GigE CONNECTION BETWEEN SWITCH #8 & SWITCH #9

ETHERNET SWITCH # 9 PORT DESTINATION

PORT G1: EXISTING COMMUNICATION NODE 270025.9: I-71 AT I-270
- VIA ODOT FMS FIBER OPTIC NETWORK (EX. LINK)

PORT G2: 77 N FRONT ST COMMUNICATION HUB
- VIA METRONET FIBER OPTIC NETWORK (EX. LINK)

PORT G3: EXISTING COMMUNICATION NODE 071113.4: I-71 AT E. NORTH BROADWAY (PR. LINK #)

PORT G4: TEMPORARY CENTRACS TESTING CONNECTION (EX. LINK)

ETHERNET SWITCH # 8 PORT DESTINATION

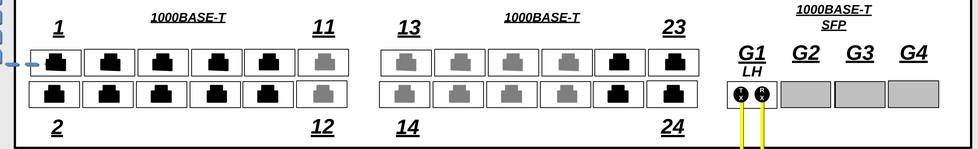
PORT G1: EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670
(PR. LINK – MAKE CORRESPONDING CONNECTIONS AT NODE 071109.0)

PORT G2: not used

PORT G3: not used

PORT G4: not used

EXISTING LAYER 3 ETHERNET SWITCH (CTSS #8)



A
C
D
EX. 72 TERMINATION LC PATCH PANEL

EXISTING 72 STRAND CABLE CONNECTS ROOMS

1881 E 25TH AVE TRAINING FACILITY
COMMUNICATIONS ROOM

EXISTING METRONET SWITCH

EXISTING COMMUNICATIONS NODE 270025.9

EXISTING METRONET FIBER TO 77 N FRONT ST$

TO SHEET 1079

EXISTING 144SMF CABLE

A
C
D
EX. 72 TERMINATION LC PATCH PANEL

TEMPORARY CENTRACS TESTING CONNECTION

A
B
EX. 144 TERMINATION LC PATCH PANEL

CTSS NORTH
BLUE TUBE
CTSS SOUTH
ORANGE TUBE
CTSS UNDESIGNATED
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
DoT NORTH
RED TUBE
BLACK TUBE
YELLOW TUBE
DoT SOUTH
VIOLET TUBE
ROSE TUBE
AQUA TUBE

1881 TRAINING FACILITY COMMUNICATION ROOM

KEY

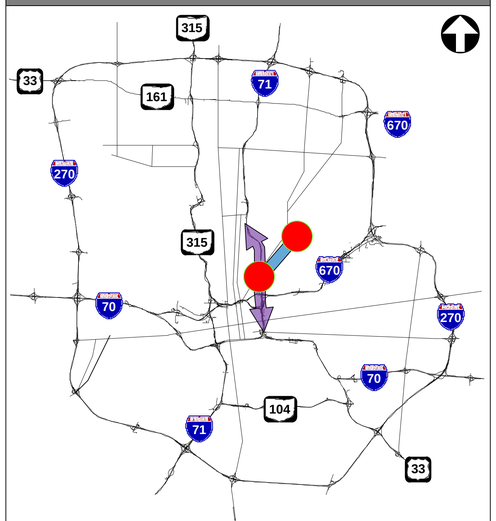
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX: GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



NOTES:

*(*) – INDICATES THAT UNUSED PANELS/TUBES MAY NOT BE SHOWN FOR CLARITY*

(#) – PROPOSED LINK BETWEEN TMC FACILITY AND E. NORTH BROADWAY HAS ALREADY BEEN INSTALLED BY PHASE B PROJECT.

($) – REFERENCE 2976-E PLAN SHEETS T402-T410 FOR TMC COMMUNICATIONS DETAILS

TMC COMMUNICATIONS PATH

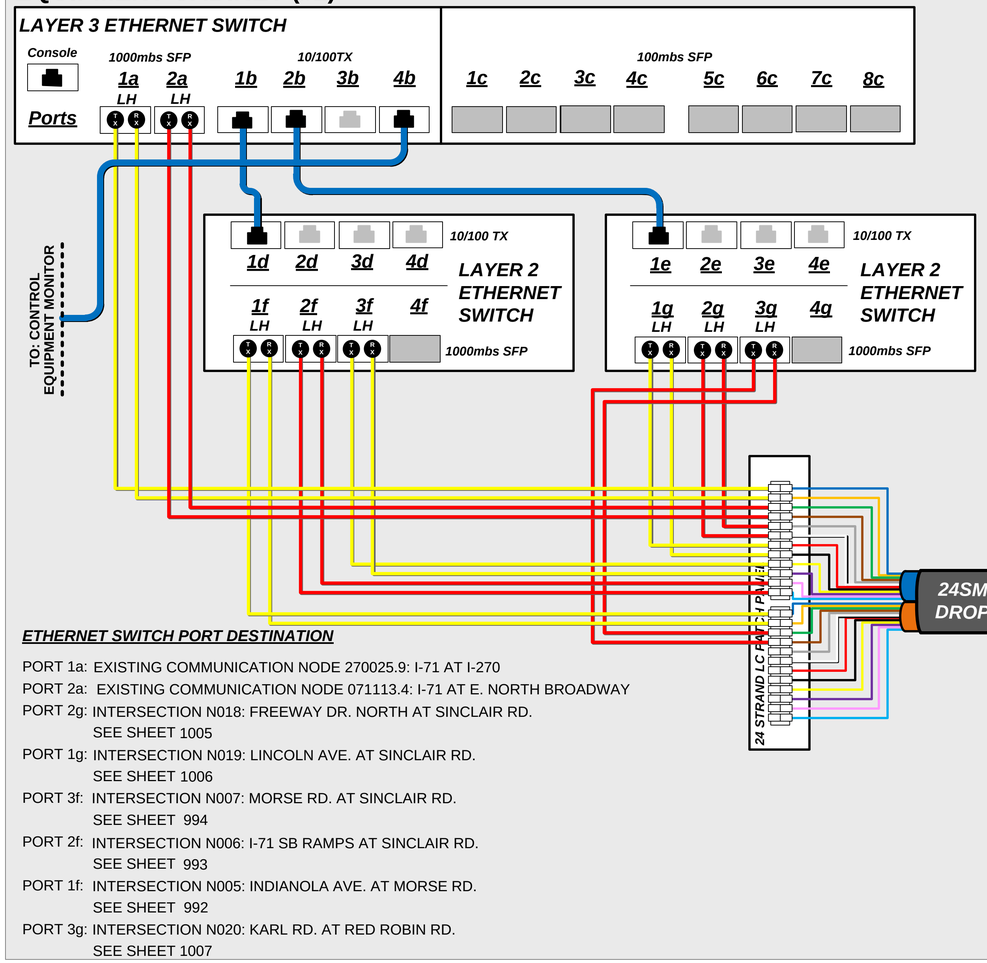
PID NUMBER 13034
2762 DR. E

COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1079A
1107

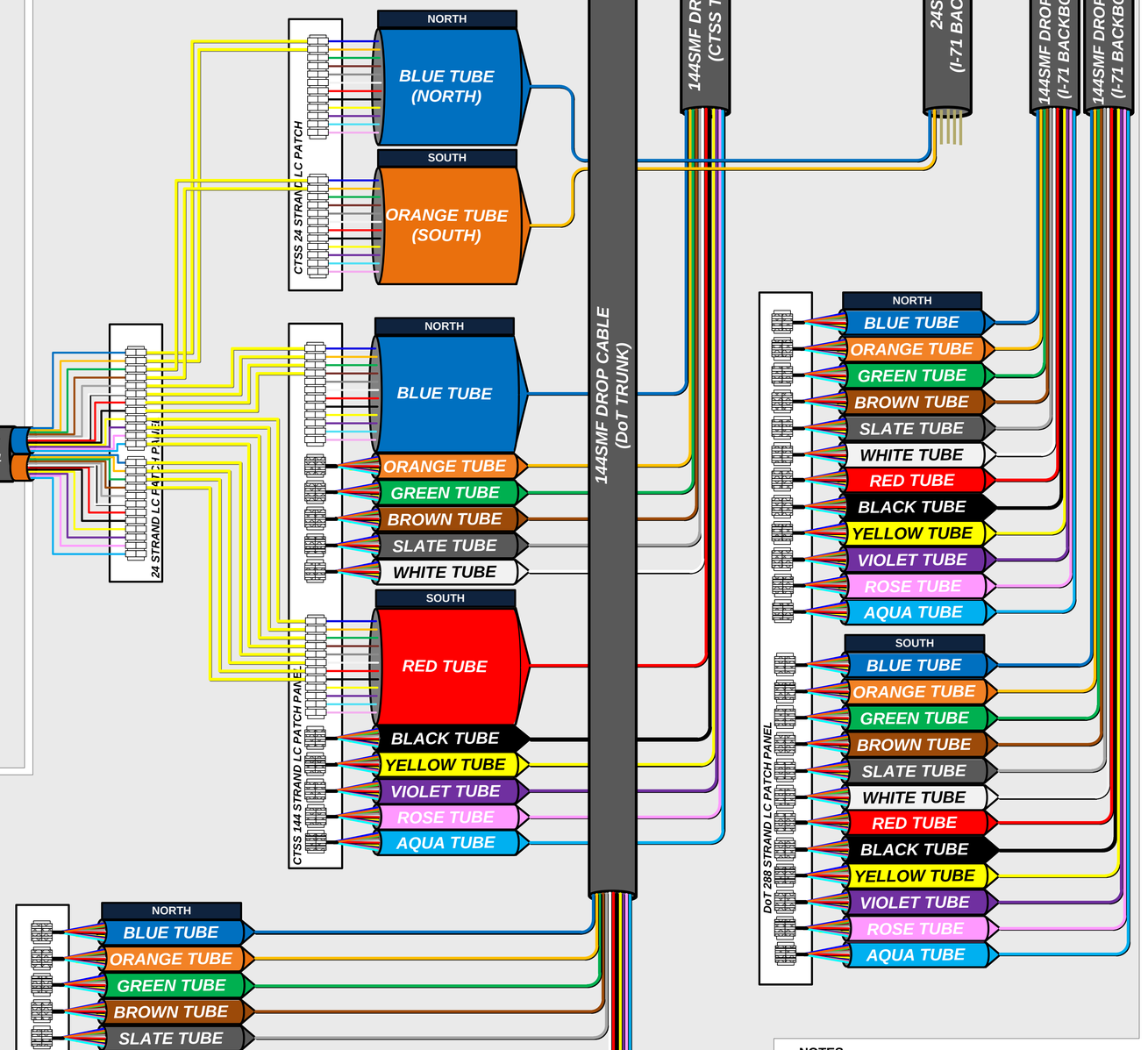
COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 1a: EXISTING COMMUNICATION NODE 270025.9: I-71 AT I-270
PORT 2a: EXISTING COMMUNICATION NODE 071113.4: I-71 AT E. NORTH BROADWAY
PORT 2g: INTERSECTION N018: FREEWAY DR. NORTH AT SINCLAIR RD.
SEE SHEET 1005
PORT 1g: INTERSECTION N019: LINCOLN AVE. AT SINCLAIR RD.
SEE SHEET 1006
PORT 3f: INTERSECTION N007: MORSE RD. AT SINCLAIR RD.
SEE SHEET 994
PORT 2f: INTERSECTION N006: I-71 SB RAMPS AT SINCLAIR RD.
SEE SHEET 993
PORT 1f: INTERSECTION N005: INDIANOLA AVE. AT MORSE RD.
SEE SHEET 992
PORT 3g: INTERSECTION N020: KARL RD. AT RED ROBIN RD.
SEE SHEET 1007

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



KEY

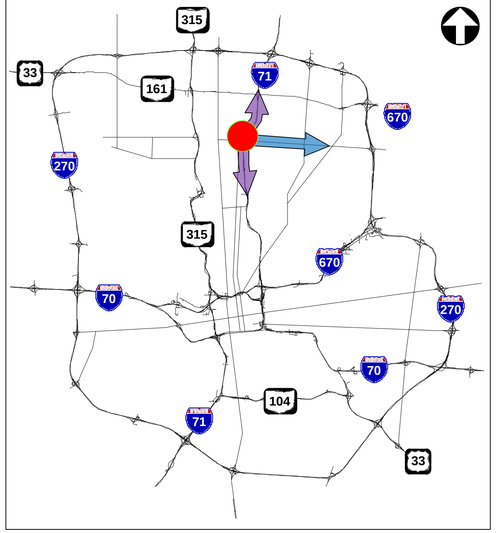
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX: GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 071116.2

REFER TO SHEET 520 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 071116.2: I-71 AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1080
1107

TO:EXISTING COMMUNICATION NODE 270025.9: I-71 AT I-270

CAP AND COIL 75' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

288SMF CABLE NORTH I-71 BACKBONE

24SMF CABLE ODOT (future)

SPLICE ENCLOSURE IN EXISTING 32" PULL BOX
5 CABLE ENTRIES
336 FUSION SPLICES
10 BUFFER TUBES PASSED THROUGH UNSPLICED

REFER TO SHEET 520 FOR CONSTRUCTION PLAN SHEET

24SMF DROP CABLE (I-71 BACKBONE)

144SMF DROP CABLE DOT (I-71 BACKBONE) NORTH

144SMF DROP CABLE DOT (I-71 BACKBONE) SOUTH

288SMF CABLE SOUTH I-71 BACKBONE

TO: EXISTING COMMUNICATION NODE 071113.4: I-71 AT E. NORTH BROADWAY

MATCHLINE B - SEE THIS SHEET

SEE SHEET 1005

INTERSECTION N018: FREEWAY DR. NORTH AT SINCLAIR RD.

MATCHLINE B - SEE THIS SHEET

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

PROPOSED 48" PULL BOX

SPLICE ENCLOSURE IN PROPOSED 48" PULL BOX
5 CABLE ENTRIES
288 FUSION SPLICES

144SMF CABLE NORTH SINCLAIR RD TRUNK

24SMF CABLE ODOT (future)

24SMF DROP CABLE (I-71 BACKBONE)

144SMF DROP CABLE DOT (I-71 BACKBONE) NORTH

144SMF DROP CABLE DOT (I-71 BACKBONE) SOUTH

144SMF CABLE SOUTH SINCLAIR RD TRUNK

144SMF DROP CABLE (D.O.T.)

144SMF DROP CABLE (C.T.S.S.)

SEE SHEET 993

INTERSECTION N006: I-71 SB RAMPS AT SINCLAIR RD.

MATCHLINE A - SEE SHEET 1080

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

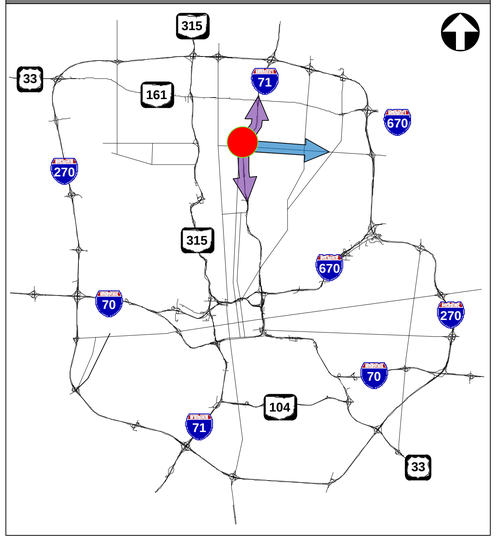
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE 071116.2

REFER TO SHEET 520 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 071116.2: I-71 AT MORSE RD.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Console

Ports

1000mbs SFP: 1a LH, 2a

10/100TX: 1b, 2b, 3b, 4b

100mbs SFP: 1c, 2c, 3c, 4c, 5c, 6c, 7c, 8c

TO: CONTROL EQUIPMENT MONITOR

LAYER 2 ETHERNET SWITCH

10/100 TX: 1d, 2d, 3d, 4d

1000mbs SFP: 1f LH, 2f LH, 3f LH, 4f LH

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

CTSS 144 STRAND LC PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

SOUTH: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

DoT 144 STRAND LC PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

DoT 144 STRAND LC PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

DOT 144 STRAND LC PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

SOUTH: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE[2] (CTSS BACKBONE)

144SMF DROP CABLE[2] (DoT BACKBONE)*

MATCHLINE A - SEE SHEET 1083

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

ETHERNET SWITCH PORT DESTINATION

PORT 1a: EXISTING COMMUNICATION NODE 270008.7: I-70 AT I-270
SEE SHEET 1084

PORT 1f: INTERSECTION 1101: GEORGESVILLE RD. AT PARKWICK DR.
SEE SHEET 874

PORT 2f: INTERSECTION 1103: GEORGESVILLE RD. AT HALL RD.
SEE SHEET 875

PORT 3f: INTERSECTION 1100: GEORGESVILLE RD. AT I-270 EB RAMPS
SEE SHEET 873

PORT 4f: INTERSECTION 1099: GEORGESVILLE RD. AT I-270 NB RAMPS
SEE SHEET 872

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

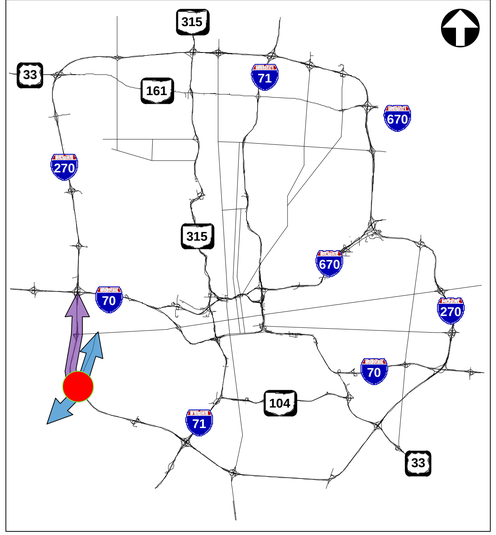
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

*DoT 288 FIBER SPLICING WORK TO BE PERFORMED BY ONGOING DoT PROJECT

COMMUNICATION NODE 270004.5

REFER TO SHEET 653 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270004.5: I-270 AT GEORGESVILLE RD
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

MATCHLINE A - SEE SHEET 1082

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (future)

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

PROPOSED SPLICE ENCLOSURE

PROPOSED 48" PULL BOX

*DoT 288 FIBER SPLICING WORK TO BE PERFORMED BY ONGOING DoT PROJECT

144SMF DROP CABLE (CTSS BACKBONE)

144SMF DROP CABLE (DoT BACKBONE)*

24SMF CABLE ODOT (future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

288SMF CABLE NORTH I-270 BACKBONE

PROPOSED SPLICE ENCLOSURE

SEE SHEET 1085

EXISTING COMMUNICATION NODE 270008.7: I-70 AT I-270

SEE SHEET 872

INTERSECTION 1099: GEORGESVILLE RD. AT I-270 NB RAMPS

24SMF DROP CABLE

SEE SHEET 874

INTERSECTION 1101: GEORGESVILLE RD. AT PARKWICK DR.

144SMF CABLE NORTH GEORGESVILLE TRUNK

SEE SHEET 873

INTERSECTION 1100: GEORGESVILLE RD. AT I-270 EB RAMPS

144SMF CABLE SOUTH GEORGESVILLE TRUNK

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

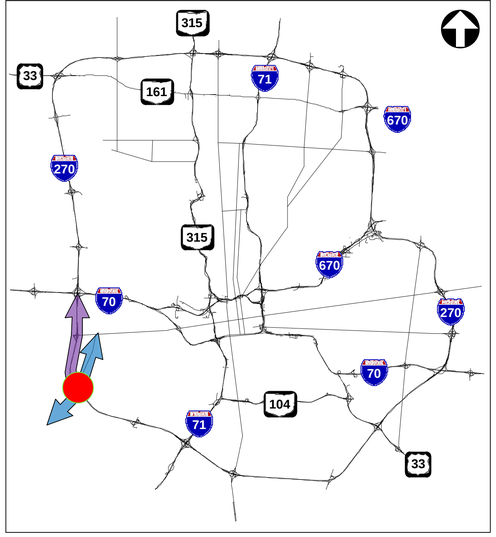
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE 270004.5

REFER TO SHEET 653 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270004.5: I-270 AT GEORGESVILE RD
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 5 6 7 8 9 10 11 12

SFP Modules: 5 LH, 6 LH, 7 LH

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 270010.5: I-270 AT ROBERTS RD.
PORT 6: EXISTING COMMUNICATION NODE 070096.0: I-70 AT I-670
PORT 7: PROPOSED COMMUNICATION NODE 270004.5: I-270 AT GEORGESVILLE RD
SEE SHEET 1082

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 1085

MATCHLINE B - SEE SHEET 1085

CTSS144 STRAND LC PATCH PANEL

SOUTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

144SMF DROP CABLE SOUTH (CTSS TRUNK)[2]

144SMF DROP CABLE EAST (CTSS TRUNK)[2]

144SMF DROP CABLE NORTH (CTSS TRUNK)[2]

CTSS144 STRAND LC PATCH PANEL

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

3

CTSS144 STRAND LC PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

DoT144 STRAND LC PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

144SMF DROP CABLE NORTH (DoT TRUNK)[2]

144SMF DROP CABLE SOUTH (DoT TRUNK)[2]

144SMF DROP CABLE EAST (DoT TRUNK)[2]

DoT144 STRAND LC PATCH PANEL

SOUTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

DoT144 STRAND LC PATCH PANEL

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

KEY

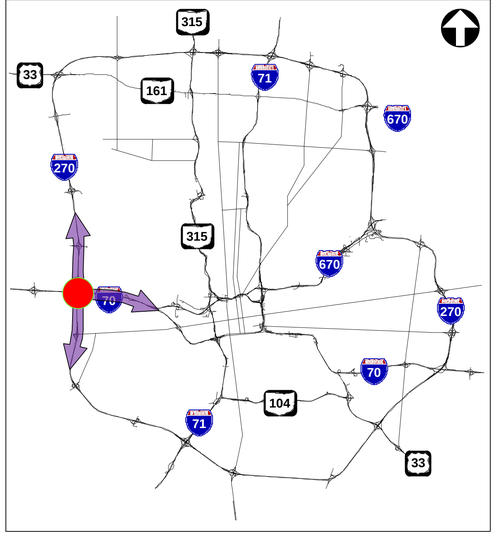
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX: GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

[3] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

COMMUNICATION NODE 270008.7

REFER TO SHEET 656 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 270008.7: I-70 AT I-270
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

MATCHLINE A - SEE SHEET 1084

MATCHLINE B - SEE SHEET 1084

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

TO: EXISTING COMMUNICATION NODE 270010.5: I-270 AT ROBERTS RD.

24SMF CABLE ODOT (future)

288SMF CABLE NORTH I-270 BACKBONE

144SMF DROP CABLE NORTH (CTSS TRUNK)

144SMF DROP CABLE NORTH (DoT TRUNK)

144SMF DROP CABLE EAST (DoT TRUNK)

144SMF DROP CABLE EAST (CTSS TRUNK)

144SMF DROP CABLE SOUTH (CTSS TRUNK)

144SMF DROP CABLE SOUTH (DoT TRUNK)

EXISTING 48" PULL BOX

PROPOSED SPLICE ENCLOSURE[1]

PROPOSED SPLICE ENCLOSURE[1]

PROPOSED SPLICE ENCLOSURE[1]

288SMF CABLE EAST I-70 BACKBONE

24SMF CABLE ODOT (future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

TO: EXISTING COMMUNICATIO N NODE 070096.0: I-70 AT I-670

24SMF CABLE ODOT (future)

288SMF SOUTH I-270 BACKBONE

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

SEE SHEET 1083

PROPOSED COMMUNICATION NODE 270004.5: I-270 AT GEORGESVILLE RD

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

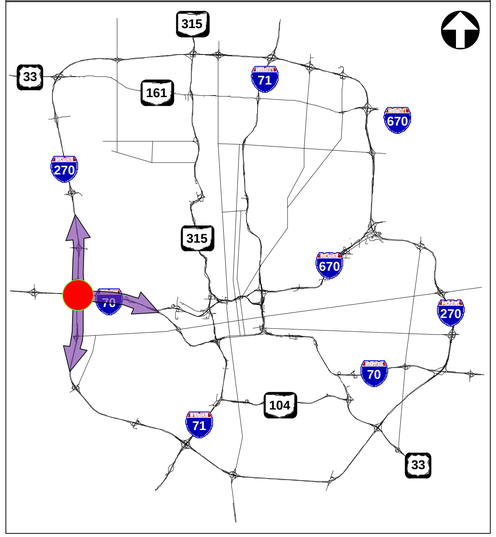
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



NOTES

REMOVE EXISTING 12 STRAND DROP CABLES AND FUSION SPLICES. RESPLICE 288 STRAND FIBERS AS SHOWN IN THE DIAGRAM ABOVE.

[1]EACH UNDERGROUND SPLICE ENCLOSURE MUST ACCOMMODATE 4 CABLE ENTRY PORTS, 288 FUSION SPLICES, AND 2 COILED BUFFER TUBES.

COMMUNICATION NODE 270008.7

REFER TO SHEET 656 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 270008.7: I-70 AT I-270
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Console

Ports

1000mbs SFP: 1a LH, 2a LH

10/100TX: 1b, 2b, 3b, 4b

100mbs SFP: 1c, 2c, 3c, 4c, 5c, 6c, 7c, 8c

LAYER 2 ETHERNET SWITCH

10/100-TX: 1d, 2d, 3d, 4d

1000Mbs SFP: 1f LH, 2f LH, 3f, 4f

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 1a: EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.
SEE SHEET 1088

PORT 2a: EXISTING COMMUNICATION NODE 270010.5: I-270 AT ROBERTS RD.

PORT 1f: INTERSECTION 7002: FISHINGER BLVD. AT TRUEMAN BLVD.
SEE SHEET 972B

PORT 2f: INTERSECTION 7003: CEMETERY RD. AT IR-270 NB OFF RAMPS
SEE SHEET 972C

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

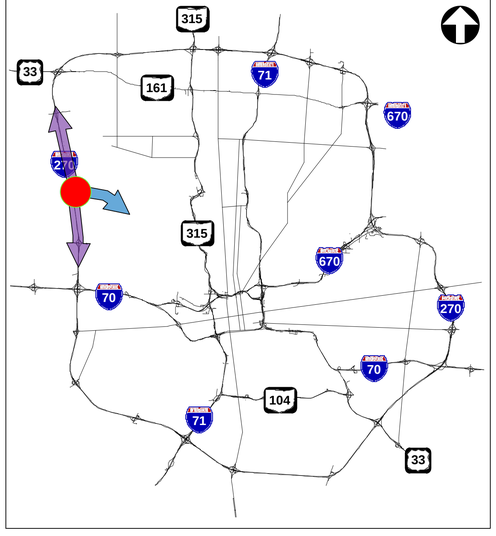
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX: GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



MATCHLINE A - SEE SHEET 1087

144SMF DROP CABLE (D.O.T. TRUNK)

144SMF DROP CABLE (C.T.S.S. TRUNK)

24SMF DROP CABLE (I-270 BACKBONE)

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

CTSS 144 STRAND LC PATCH PANEL

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

DoT 144 STRAND LC PATCH PANEL

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

CTSS 24 STRAND LC PATCH PANEL

NORTH: BLUE TUBE

SOUTH: ORANGE TUBE

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270012.6

REFER TO SHEET 714 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270012.6: I-270 AT FISHINGER BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TO: EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.

288SMF CABLE NORTH I-270 BACKBONE

24SMF CABLE ODOT (future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

EXISTING 32" PULL BOX

PROPOSED SPLICE ENCLOSURE

24SMF DROP CABLE (I-270 BACKBONE)

288SMF CABLE SOUTH I-270 BACKBONE

TO: EXISTING COMMUNICATION NODE 270010.5: I-270 AT ROBERTS RD.

MATCHLINE B - SEE THIS SHEET

MATCHLINE B - SEE THIS SHEET

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (future)

PROPOSED 32" PULL BOX

144SMF CABLE EAST FISHINGER BLVD TRUNK

SEE SHEET 972

INTERSECTION 4214: FISHINGER BLVD. AT SPRING MILLS DR.

24SMF DROP CABLE (I-270 BACKBONE)

144SMF DROP CABLE (DOT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

PROPOSED SPLICE ENCLOSURE

MATCHLINE A - SEE SHEET 1086

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

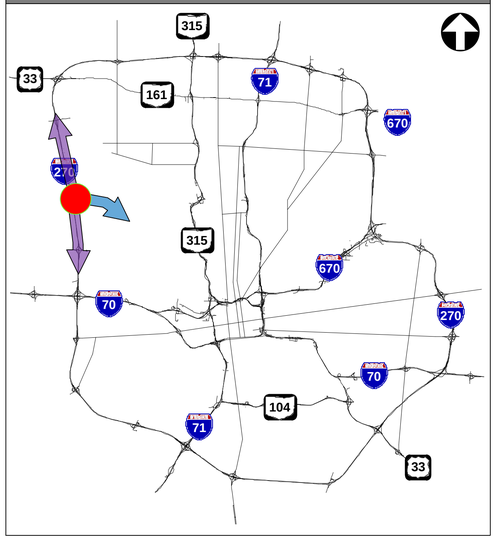
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE 270012.6

REFER TO SHEET 714 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270012.6: I-270 AT FISHINGER BLVD.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports	1	2	3	4	5	6	7	8	9	10	11	12
SFP Modules	LH	LH	LH	LH	LH	LH	LH					

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 4203: BLAZER PKWY. AT TUTTLE CROSSING BLVD.
SEE SHEET 967

PORT 2: INTERSECTION 4202: I-270 NB RAMPS AT TUTTLE CROSSING BLVD.
SEE SHEET 966

PORT 3: INTERSECTION 4201: I-270 SB RAMPS AT TUTTLE CROSSING BLVD.
SEE SHEET 965

PORT 4: INTERSECTION 4200: BRITTON PKWY. AND EMERALD PKWY. AT TUTTLE CROSSING BLVD.
SEE SHEET 964

PORT 5: EXISTING COMMUNICATION NODE 270017.3: I-270 AT US-33/DUBLIN RD.

PORT 6: PROPOSED COMMUNICATION NODE 270012.6: I-270 AT FISHINGER BLVD.
SEE SHEET 1086

PORT 7: REPEATER R-01: I-270 AT HAYDEN RUN RD.
SEE SHEET 1077

KEY

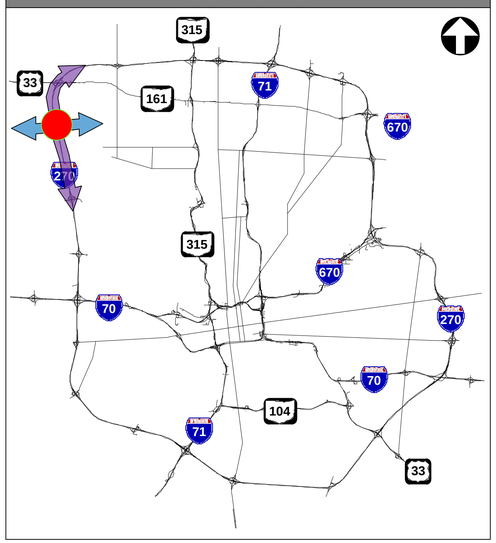
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 1089

MATCHLINE B - SEE SHEET 1089

144SMF DROP CABLE (D.O.T. TRUNK)

144SMF DROP CABLE (C.T.S.S. TRUNK)

24SMF DROP CABLE (R-1 REPEATER)

24SMF DROP CABLE (I-270 BACKBONE)

144SMF DROP CABLE DOT (I-270 BACKBONE) NORTH

144SMF DROP CABLE DOT (I-270 BACKBONE) SOUTH

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

24 STRAND LC PATCH PANEL

CTSS 144 STRAND LC PATCH PANEL

EAST
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

WEST
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

DoT144 STRAND LC PATCH PANEL

NORTH
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

SOUTH
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

DoT 288 STRAND LC PATCH PANEL

NORTH
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

SOUTH
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

3

CTSS 24 STRAND LC PATCH PANEL

NORTH
- BLUE TUBE

SOUTH
- ORANGE TUBE

CTSS 24 STRAND LC PATCH PANEL

- BLUE TUBE
- ORANGE TUBE

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

[3] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

COMMUNICATION NODE 270015.6

REFER TO SHEET 663 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TO: EXISTING COMMUNICATION NODE 270017.3: I-270 AT US-33/ DUBLIN RD.

288SMF CABLE NORTH I-270 BACKBONE

24SMF CABLE ODOT (Future)

EXISTING 32" PULL BOX

SPLICE ENCLOSURE IN EXISTING 32" PULL BOX
5 CABLE ENTRIES
336 FUSION SPLICES
10 BUFFER TUBES PASSED THROUGH UNSPLICED

24SMF DROP CABLE (I-270 BACKBONE)

144SMF DROP CABLE DOT (I-270 BACKBONE) NORTH

144SMF DROP CABLE DOT (I-270 BACKBONE) SOUTH

288SMF CABLE SOUTH I-270 BACKBONE

MATCHLINE B - SEE SHEET 1088

SEE SHEET 1086
PROPOSED COMMUNICATION NODE 270012.6: I-270 AT FISHINGER BLVD.

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (future)

EXISTING 32" PULL BOX

PROPOSED SPLICE ENCLOSURE

144SMF CABLE EAST TUTTLE CROSSING TRUNK

SEE SHEET 966
INTERSECTION 4202: I-270 NB RAMPS AT TUTTLE CROSSING BLVD.

144SMF CABLE WEST TUTTLE CROSSING TRUNK

SEE SHEET 965
INTERSECTION 4201: I-270 SB RAMPS AT TUTTLE CROSSING BLVD.

24SMF CABLE R-1 REPEATER

SEE SHEET 1077
REPEATER R-01: I-270 AT HAYDEN RUN RD.

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

24SMF DROP CABLE (R-1 REPEATER)

MATCHLINE A - SEE SHEET 1088

KEY

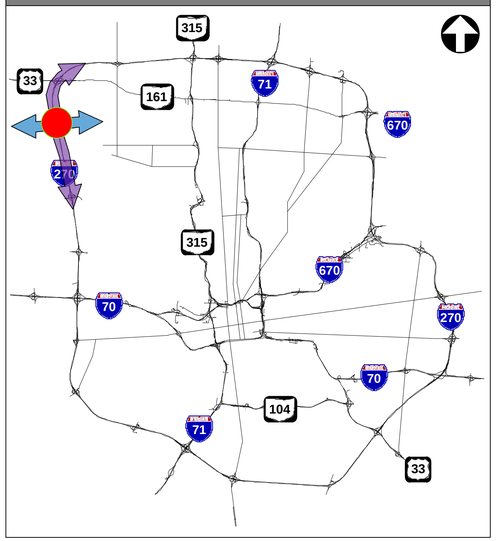
EQUIPMENT CABLE
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- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX: GBIC OPTICAL TRANSCEIVER, LH - SHORT HAUL LED, ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE 270015.6

REFER TO SHEET 663 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 270015.6: I-270 AT TUTTLE CROSSING BLVD.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1089
1107

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 5 6 7 8 9 10 11 12

SFP Modules: 1 LH, 2 LH, 3 LH, 4 LH, 5 LH, 6 LH, 7 LH, 8, 9, 10, 11, 12

ETHERNET SWITCH PORT DESTINATION

PORT 1: INTERSECTION 4255: I-270 (SPUI) AT SAWMILL RD.
SEE SHEET 987

PORT 2: INTERSECTION 4176: BILLINGSLEY RD. AT SAWMILL RD.
SEE SHEET 952

PORT 3: INTERSECTION 4170: FEDERATED BLVD. AND VILLAGE PKWY. AT SAWMILL RD.
SEE SHEET 950

PORT 4: INTERSECTION 4144: SAWMILL RD. AT SNOUFFER RD.
SEE SHEET 942

PORT 5: EXISTING COMMUNICATION NODE 270022.7: I-270 AT SR-315

PORT 6: EXISTING COMMUNICATION NODE 270017.3: I-270 AT US-33/DUBLIN RD.

PORT 7: INTERSECTION 4186: BETHEL RD. AT CARRIAGE PLACE SHOPPING CENTER
SEE SHEET 958

KEY

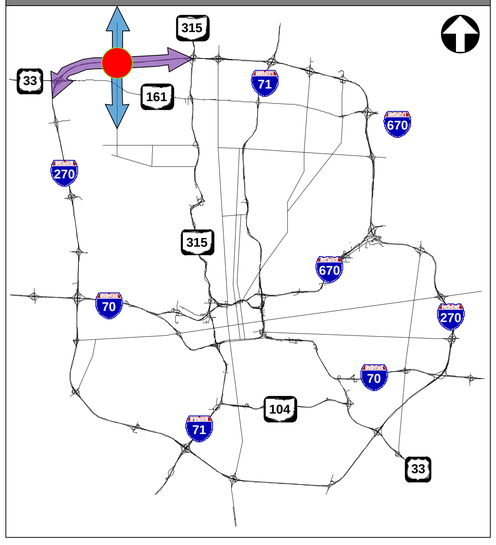
EQUIPMENT CABLE
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- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX: GBIC OPTICAL TRANSCEIVER, LH - SHORT HAUL LED, ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



MATCHLINE A - SEE SHEET 1091

MATCHLINE B - SEE SHEET 1091

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

24 STRAND LC PATCH PANEL

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

CTSS 144 STRAND LC PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

SOUTH: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

144SMF DROP CABLE (D.O.T. TRUNK)

144SMF DROP CABLE (C.T.S.S. TRUNK)

24SMF DROP CABLE (I-270 BACKBONE)

144SMF DROP CABLE DOT (I-270 BACKBONE) WEST

144SMF DROP CABLE DOT (I-270 BACKBONE) EAST

DoT 144 STRAND LC PATCH PANEL

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

WEST: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

DoT 288 STRAND LC PATCH PANEL

WEST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

[3]

CTSS 24 STRAND LC PATCH PANEL

EAST: BLUE TUBE

WEST: ORANGE TUBE

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

[3] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

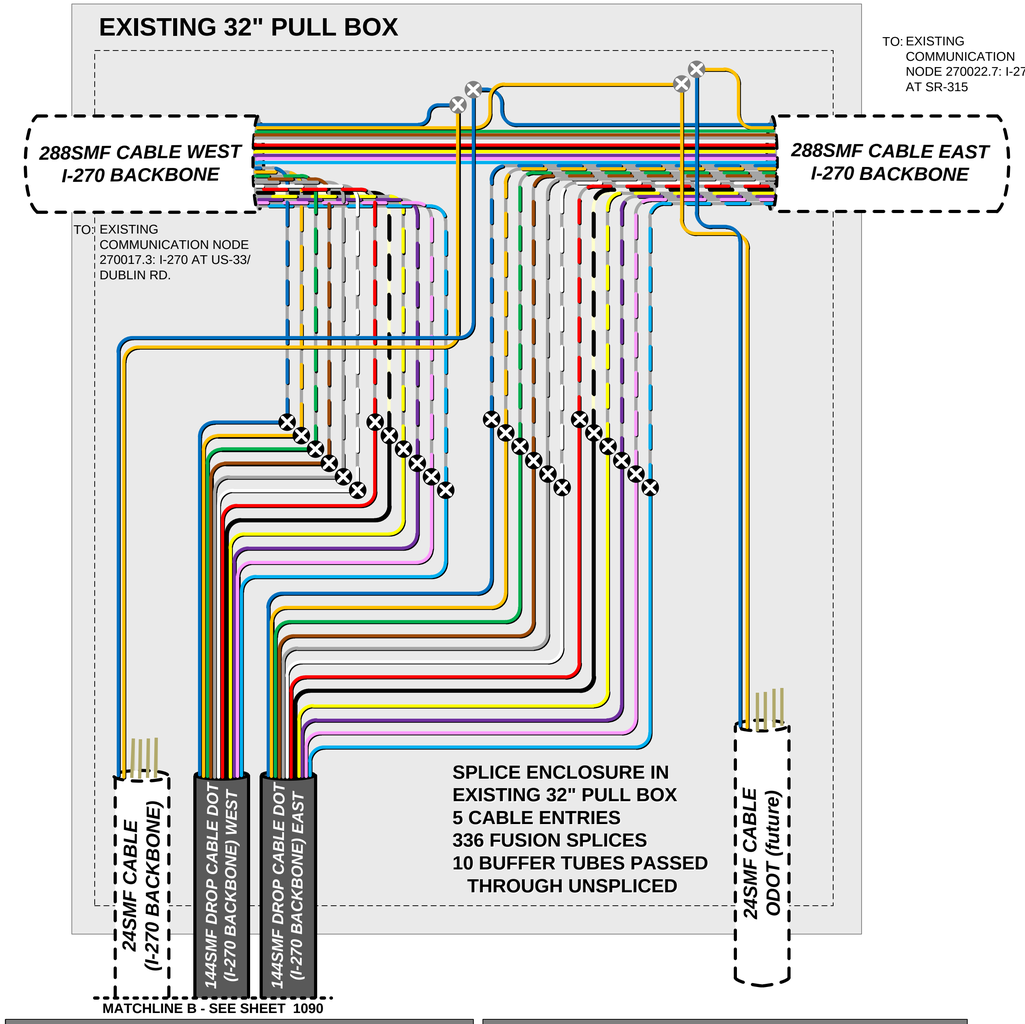
COMMUNICATION NODE 270019.8

REFER TO SHEET 677 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 270019.8: I-270 AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

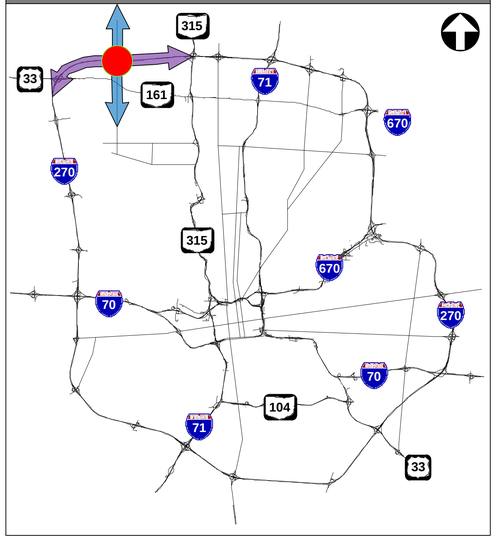
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

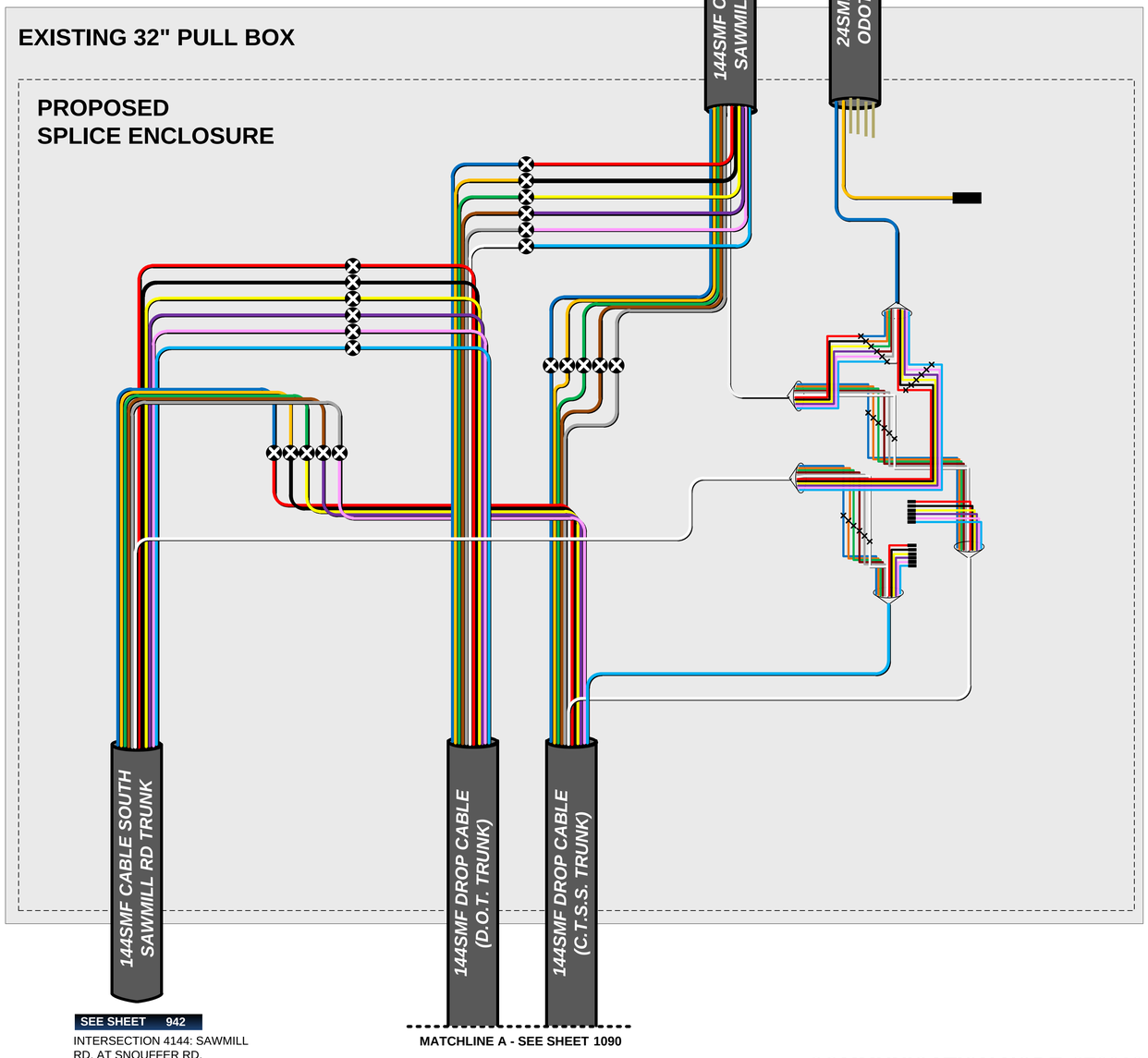
- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION 4255: I-270 (SPUI) AT SAWMILL RD.
SEE SHEET 987

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION



SEE SHEET 942
INTERSECTION 4144: SAWMILL RD. AT SNOUFFER RD.

MATCHLINE A - SEE SHEET 1090

COMMUNICATION NODE 270019.8

REFER TO SHEET 677 FOR CONSTRUCTION PLAN SHEET

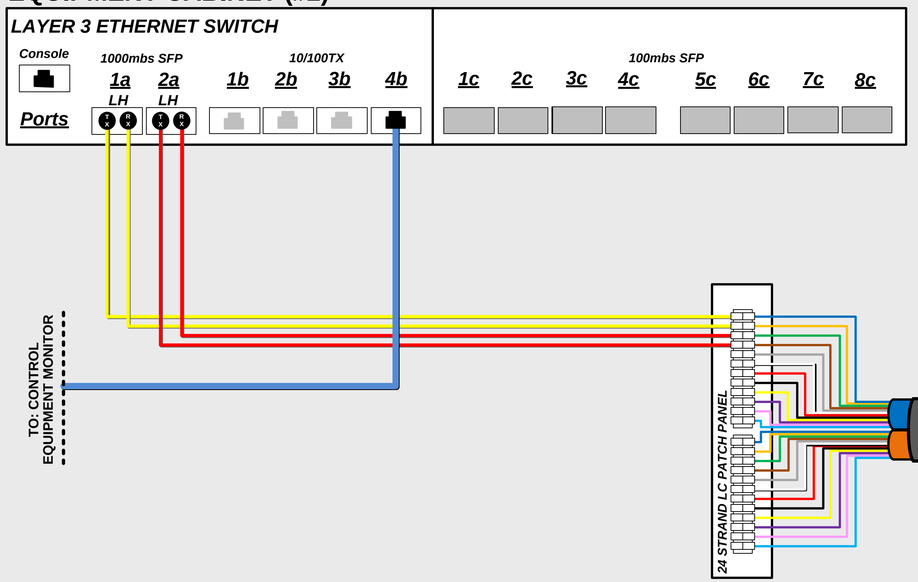
PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 270019.8: I-270 AT SAWMILL RD.
FIBER OPTIC CABLE SPLICING DIAGRAM

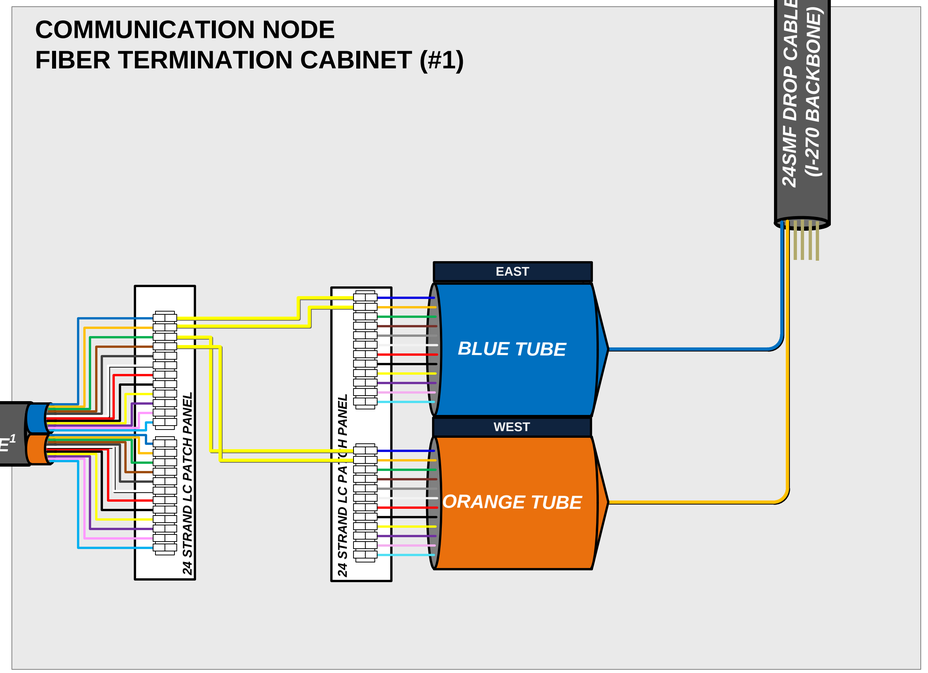
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

MATCHLINE A - SEE SHEET 1093

COMMUNICATION NODE EQUIPMENT CABINET (#2)



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



ETHERNET SWITCH PORT DESTINATION

PORT 1: EXISTING COMMUNICATION NODE 270025.9: I-71 AT I-270

PORT 2: EXISTING COMMUNICATION NODE 270022.7: I-270 AT SR-315

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

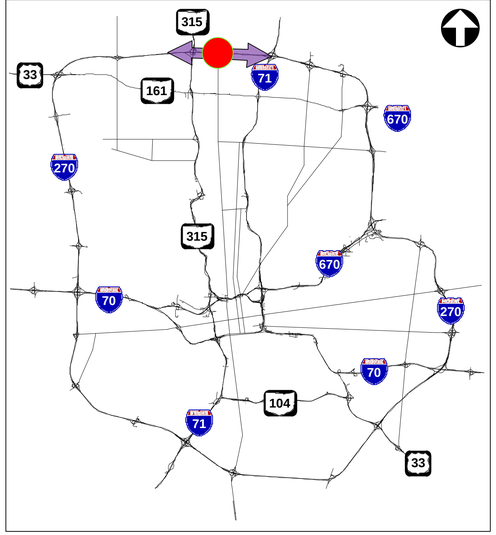
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

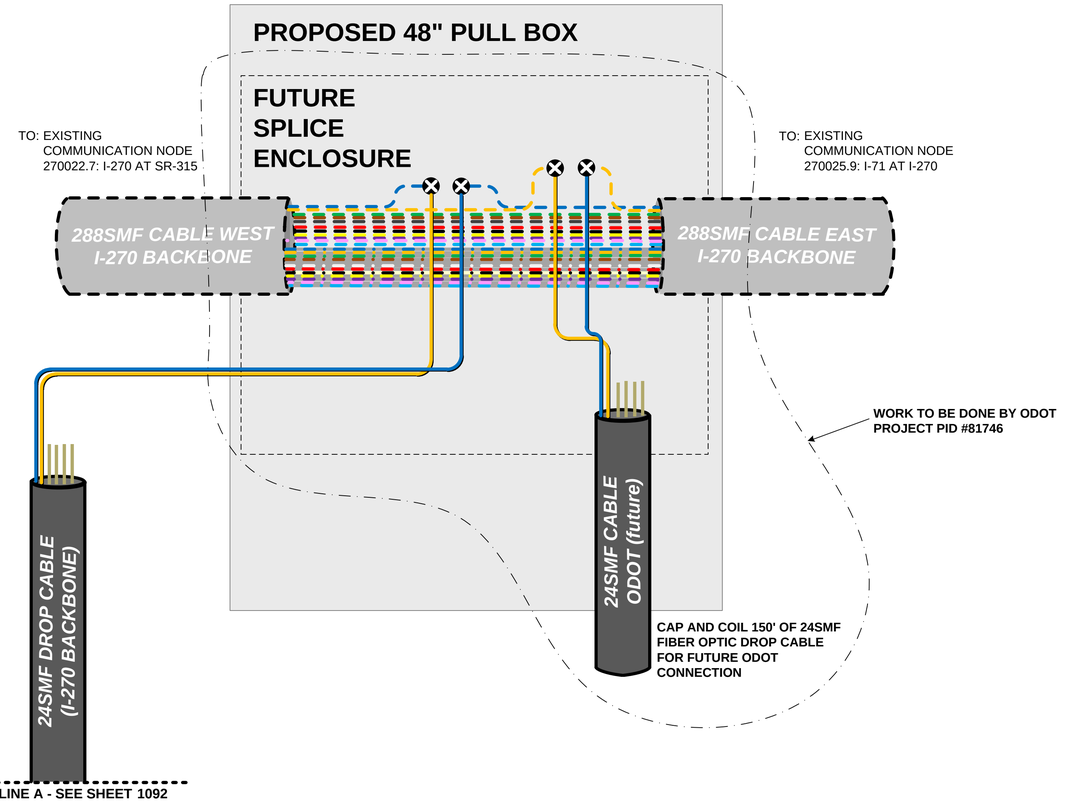
COMMUNICATION NODE 270023.6

REFER TO SHEET 603 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270027.7: I-270 AT US-23
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

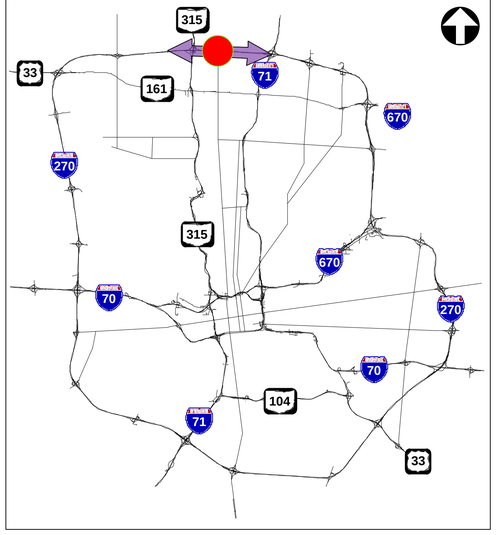
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- *LH/ZX* — GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL LED
  ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



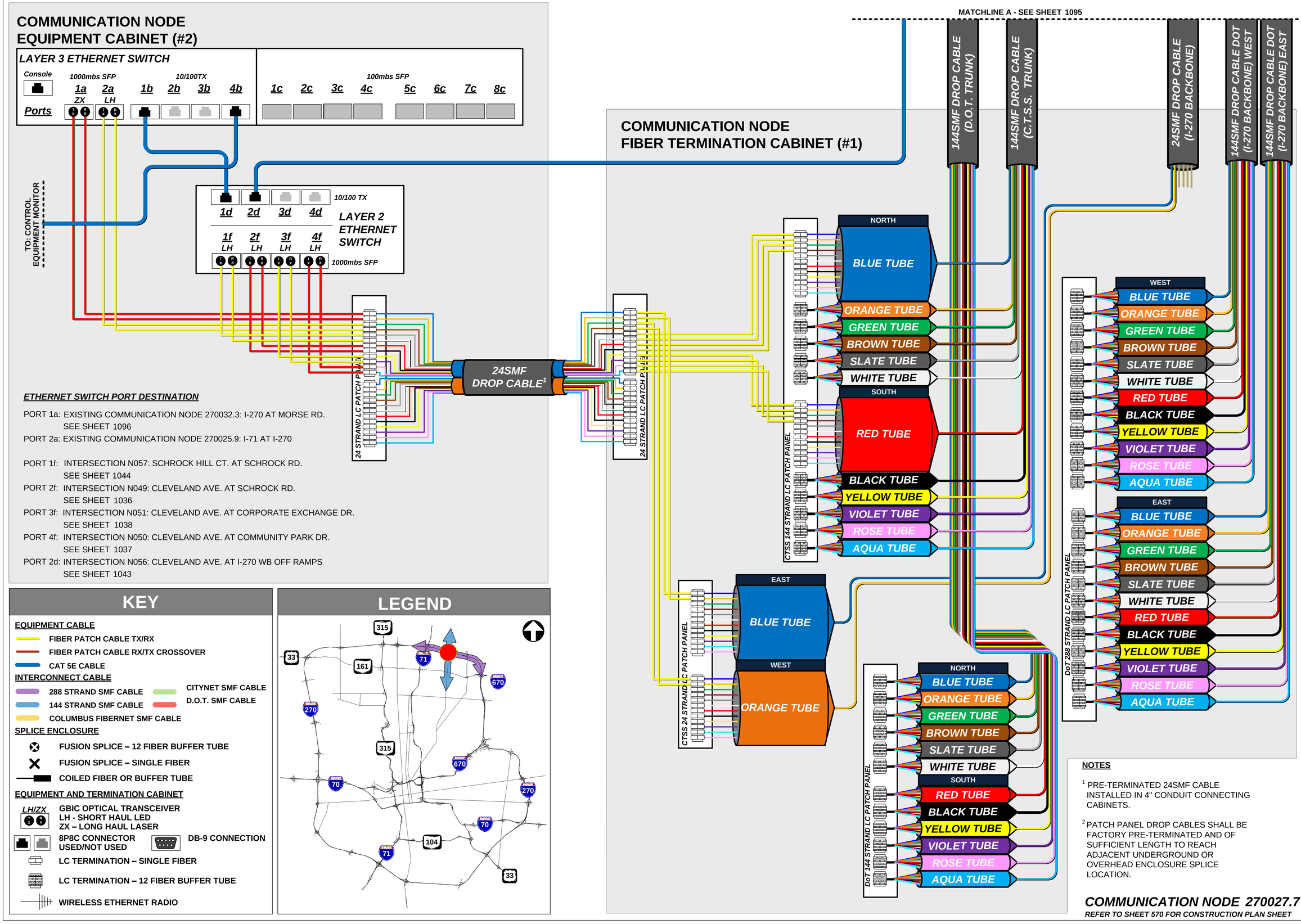
COMMUNICATION NODE 270023.6

REFER TO SHEET 603 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270023.6: I-270 AT US-23
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



ETHERNET SWITCH PORT DESTINATION

PORT 1a: EXISTING COMMUNICATION NODE 270032.3: I-270 AT MORSE RD.
SEE SHEET 1096

PORT 2a: EXISTING COMMUNICATION NODE 270025.9: I-71 AT I-270

PORT 1f: INTERSECTION N057: SCHROCK HILL CT. AT SCHROCK RD.
SEE SHEET 1044

PORT 2f: INTERSECTION N049: CLEVELAND AVE. AT SCHROCK RD.
SEE SHEET 1036

PORT 3f: INTERSECTION N051: CLEVELAND AVE. AT CORPORATE EXCHANGE DR.
SEE SHEET 1038

PORT 4f: INTERSECTION N050: CLEVELAND AVE. AT COMMUNITY PARK DR.
SEE SHEET 1037

PORT 2d: INTERSECTION N056: CLEVELAND AVE. AT I-270 WB OFF RAMPS
SEE SHEET 1043

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
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EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270027.7

REFER TO SHEET 570 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270027.7: I-270 AT CLEVELAND AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

EXISTING 32" PULL BOX

288SMF CABLE WEST I-270 BACKBONE

288SMF CABLE EAST I-270 BACKBONE

TO: EXISTING COMMUNICATION NODE 270025.9: I-71 AT I-270

TO: EXISTING COMMUNICATION NODE 270032.3-2: I-270 AT MORSE RD.

24SMF CABLE (I-270 BACKBONE)

144SMF DROP CABLE DOT (I-270 BACKBONE) WEST

144SMF DROP CABLE DOT (I-270 BACKBONE) EAST

PROPOSED SPLICE ENCLOSURE

24SMF CABLE ODOT (future)

CAP AND COIL 75' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

MATCHLINE B - SEE THIS SHEET

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

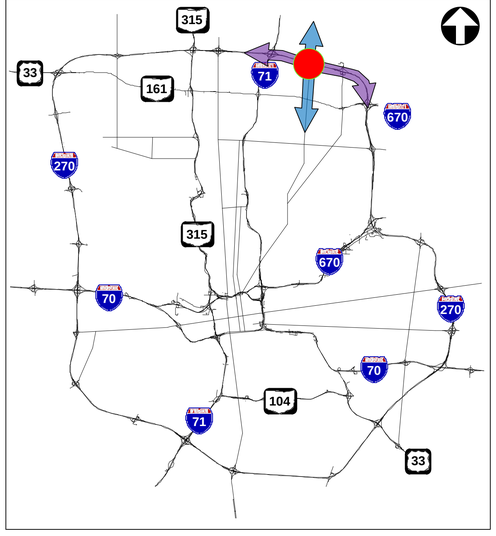
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



INTERSECTION N049: CLEVELAND AVE. AT SCHROCK RD.

SEE SHEET 1036

PROPOSED SPLICE ENCLOSURE

144SMF CABLE NORTH CLEVELAND AVE TRUNK

144SMF CABLE SOUTH CLEVELAND AVE TRUNK

24SMF CABLE ODOT (future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

144SMF DROP CABLE (D.O.T. TRUNK)

144SMF DROP CABLE (C.T.S.S. TRUNK)

MATCHLINE B - SEE THIS SHEET

24SMF CABLE (I-270 BACKBONE)

144SMF DROP CABLE DOT (I-270 BACKBONE) WEST

144SMF DROP CABLE DOT (I-270 BACKBONE) EAST

PROPOSED SPLICE ENCLOSURE

24SMF DROP CABLE (I-270 BACKBONE)

PROPOSED 48" PULL BOX

MATCHLINE A - SEE SHEET 1094

SEE SHEET 1037

INTERSECTION N050: CLEVELAND AVE. AT COMMUNITY PARK DR.

COMMUNICATION NODE 270027.7

REFER TO SHEET 570 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270027.7: I-270 AT CLEVELAND AVE.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports	1	2	3	4	5	6	7	8	9	10	11	12
SFP Modules		LH	LH	LH	LH	ZX	LH	LH	LH			

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: INTERSECTION 3228: MORSE RD. AT STELZER RD.
SEE SHEET 900

PORT 3: INTERSECTION 3161: I-270 SB RAMPS AT MORSE RD.
SEE SHEET 892

PORT 4: INTERSECTION 3163: APPIAN WAY & LIMITED PKWY AT MORSE RD.
SEE SHEET 894

PORT 5: EXISTING COMMUNICATION NODE 270035.4: I-270 AT I-670

PORT 6: PROPOSED COMMUNICATION NODE 270027.7: I-270 AT CLEVELAND AVE.
SEE SHEET 1094

PORT 7: INTERSECTION 3162: I-270 NB RAMPS AT MORSE RD.
SEE SHEET 893

PORT 8: INTERSECTION N041: CLEVELAND AVE. AT NORTHWOLD RD. & TAYMOUTH RD.
SEE SHEET 1028

PORT 9: INTERSECTION 3291: MORSE RD. AT WESTERVILLE RD.
SEE SHEET 911

KEY

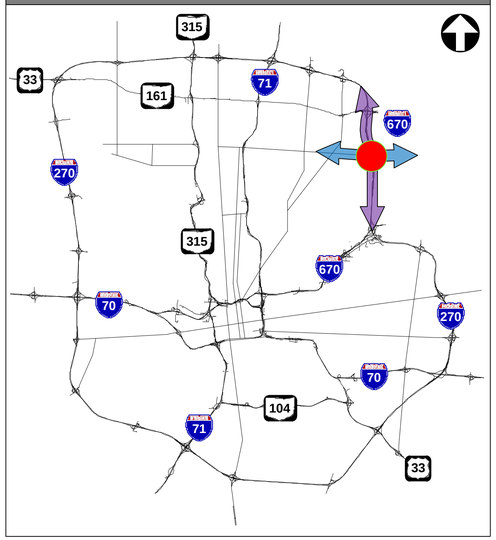
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX: GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



MATCHLINE A - SEE SHEET 1097

MATCHLINE B - SEE SHEET 1097

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

144SMF DROP CABLE (D.O.T. TRUNK)

144SMF DROP CABLE (C.T.S.S. TRUNK)

24SMF DROP CABLE (I-270 BACKBONE)

144SMF DROP CABLE DOT (I-270 BACKBONE) NORTH

144SMF DROP CABLE DOT (I-270 BACKBONE) SOUTH

DoT 144 STRAND LC PATCH PANEL

CTSS 144 STRAND LC PATCH PANEL

CTSS 24 STRAND LC PATCH PANEL

DoT 288 STRAND LC PATCH PANEL

	EAST	WEST	NORTH	SOUTH
	BLUE TUBE	RED TUBE	BLUE TUBE	BLUE TUBE
	ORANGE TUBE	BLACK TUBE	ORANGE TUBE	ORANGE TUBE
	GREEN TUBE	YELLOW TUBE	GREEN TUBE	GREEN TUBE
	BROWN TUBE	VIOLET TUBE	BROWN TUBE	BROWN TUBE
	SLATE TUBE	ROSE TUBE	SLATE TUBE	SLATE TUBE
	WHITE TUBE	AQUA TUBE	WHITE TUBE	WHITE TUBE
			RED TUBE	RED TUBE
			BLACK TUBE	BLACK TUBE
			YELLOW TUBE	YELLOW TUBE
			VIOLET TUBE	VIOLET TUBE
			ROSE TUBE	ROSE TUBE
			AQUA TUBE	AQUA TUBE

3

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

[3] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

COMMUNICATION NODE 270032.3

REFER TO SHEET 549 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 270032.3: I-270 AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TO: PROPOSED COMMUNICATION NODE 270027.7: I-270 AT CLEVELAND AVE.

SEE SHEET 1094

288SMF CABLE NORTH I-270 BACKBONE

EXISTING 32" PULL BOX

EXISTING SPLICE ENCLOSURE
IN 32" PULL BOX
5 CABLE ENTRIES
336 FUSION SPLICES
10 BUFFER TUBES (GREEN-AQUA) PASSED THROUGH UNSPLICED
EXISTING SPLICES TO REMAIN

24SMF DROP CABLE (I-270 BACKBONE)

144SMF DROP CABLE (D.O.T.) (I-270 BACKBONE) NORTH

144SMF DROP CABLE (D.O.T.) (I-270 BACKBONE) SOUTH

288SMF CABLE SOUTH I-270 BACKBONE

12SMF CABLE ODOT (future)

MATCHLINE B - SEE SHEET 1096

TO: EXISTING COMMUNICATION NODE 270035.4: I-270 AT I-670

144SMF CABLE WEST MORSE RD TRUNK

SEE SHEET 892

INTERSECTION 3161: I-270 SB RAMPS AT MORSE RD.

EXISTING 32" PULL BOX

144SMF CABLE EAST MORSE RD TRUNK

SEE SHEET 893

INTERSECTION 3162: I-270 NB RAMPS AT MORSE RD.

PROPOSED
SPLICE ENCLOSURE

144SMF DROP CABLE (D.O.T. TRUNK)

144SMF DROP CABLE (C.T.S.S. TRUNK)

24SMF CABLE ODOT (future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

MATCHLINE A - SEE SHEET 1096

KEY

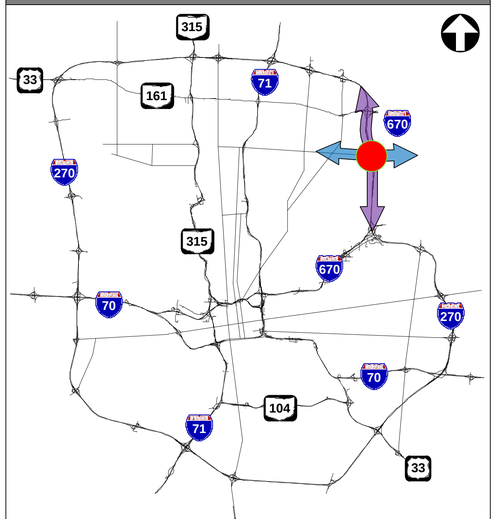
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE 270032.3

REFER TO SHEET 549 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 270032.3: I-270 AT MORSE RD.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Console

Ports

1000mbs SFP: 1a LH, 2a LH

10/100TX: 1b, 2b, 3b, 4b

100mbs SFP: 1c, 2c, 3c, 4c, 5c, 6c, 7c, 8c

TO: CONTROL EQUIPMENT MONITOR

LAYER 2 ETHERNET SWITCH

10/100 TX: 1d, 2d, 3d, 4d

1000mbs SFP: 1f LH, 2f LH, 3f, 4f

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

ETHERNET SWITCH PORT DESTINATION

PORT 1a: EXISTING COMMUNICATION NODE 270035.4: I-270 AT I-670

PORT 2a: EXISTING COMMUNICATION NODE 270039.5: I-270 AT E. BROAD ST.
SEE SHEET 1100

PORT 1f: INTERSECTION SIG4815: TAYLOR RD. AT TAYLOR STATION RD.
SEE SHEET 1062

MATCHLINE A - SEE SHEET 1099

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

24SMF DROP CABLE (GAHANNA TRUNK 5)

24SMF DROP CABLE (I-270 BACKBONE)

24 STRAND LC PATCH PANEL

CTSS 24 STRAND LC PATCH PANEL

NORTH — BLUE TUBE

SOUTH — ORANGE TUBE

EAST — BLUE TUBE

SPARE — ORANGE TUBE

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

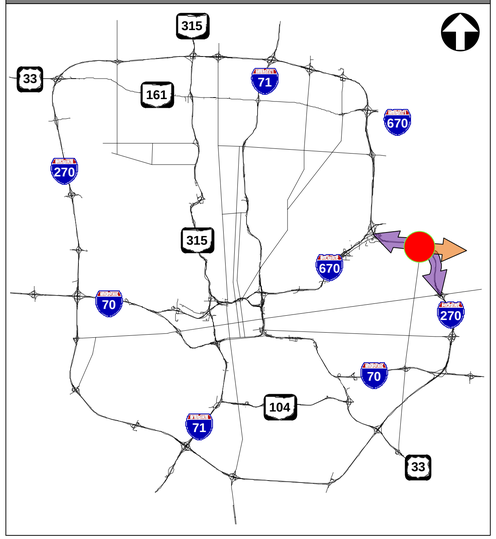
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

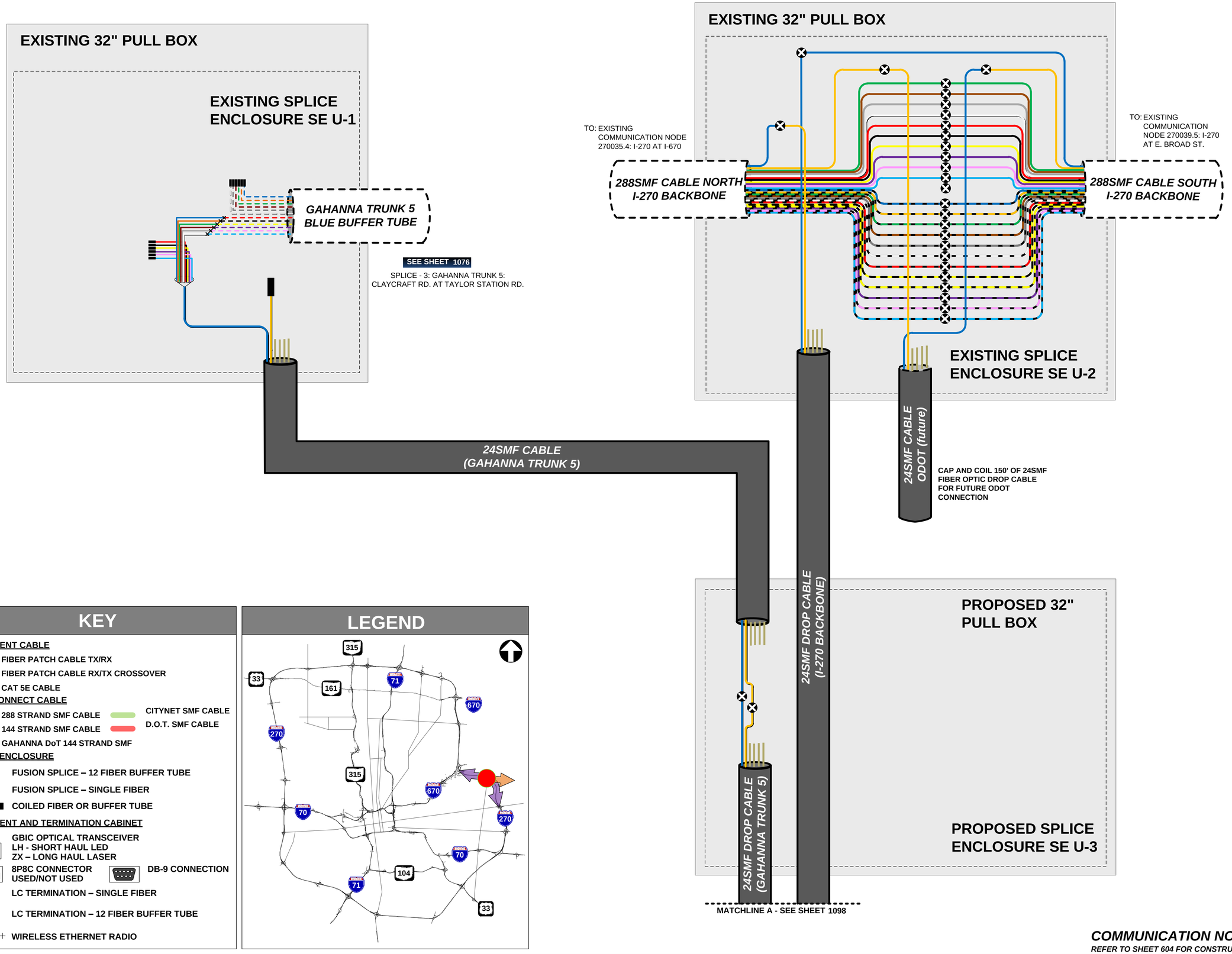
COMMUNICATION NODE 270037.4

REFER TO SHEET 604 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270037.4: I-270 AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)



KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- GAHANNA DoT 144 STRAND SMF
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND

COMMUNICATION NODE 270037.4

REFER TO SHEET 604 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 270037.4: I-270 AT HAMILTON RD.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

MATCHLINE A - SEE SHEET 1101

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports	1	2	3	4	5	6	7	8	9	10	11	12
SFP Modules		LH	LH		LH	LH						

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: INTERSECTION 3080: E. BROAD ST. AT TAYLOR STATION RD.
SEE SHEET 883

PORT 3: INTERSECTION 3081: E. BROAD ST. AT MCNAUGHTEN RD.
SEE SHEET 884

PORT 5: EXISTING COMMUNICATION NODE 270043.0: I-70 AT I-270

PORT 6: PROPOSED COMMUNICATION NODE 270037.4: I-270 AT HAMILTON RD.
SEE SHEET 1098

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

CTSS 144 STRAND LC PATCH PANEL

EAST
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

144SMF DROP CABLE (CTSS & DoT TRUNK)

DoT 144 STRAND LC PATCH PANEL

EAST
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

24SMF DROP CABLE (I-270 BACKBONE)

144SMF DROP CABLE DOT (I-270 BACKBONE) NORTH *

144SMF DROP CABLE DOT (I-270 BACKBONE) SOUTH *

DoT 288 STRAND LC PATCH PANEL

NORTH
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

SOUTH
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

CTSS 24 STRAND LC PATCH PANEL

NORTH
- BLUE TUBE

SOUTH
- ORANGE TUBE

3

KEY

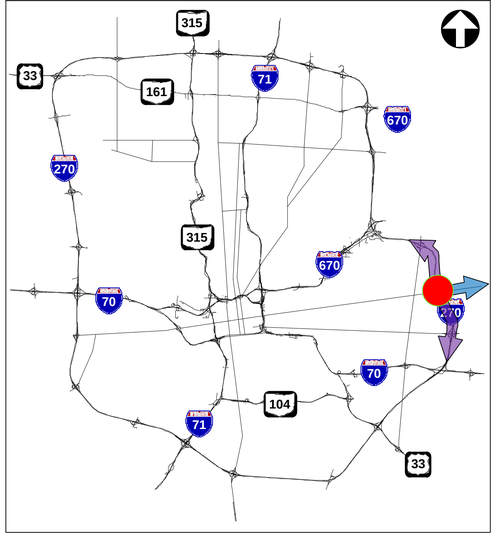
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

[3] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

*DoT 288 FIBER SPLICING WORK TO BE PERFORMED BY ONGOING DoT PROJECT

COMMUNICATION NODE 270039.5

REFER TO SHEET 605 FOR CONSTRUCTION PLAN SHEET

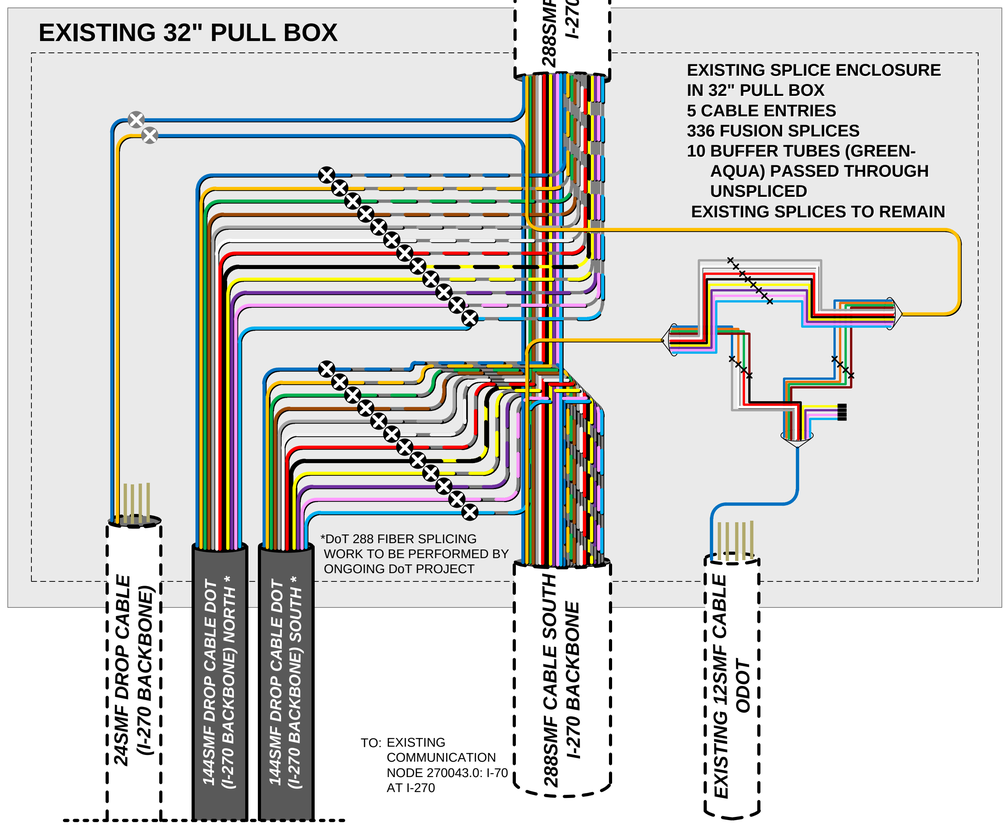
PID NUMBER 13034
2762 DR. E

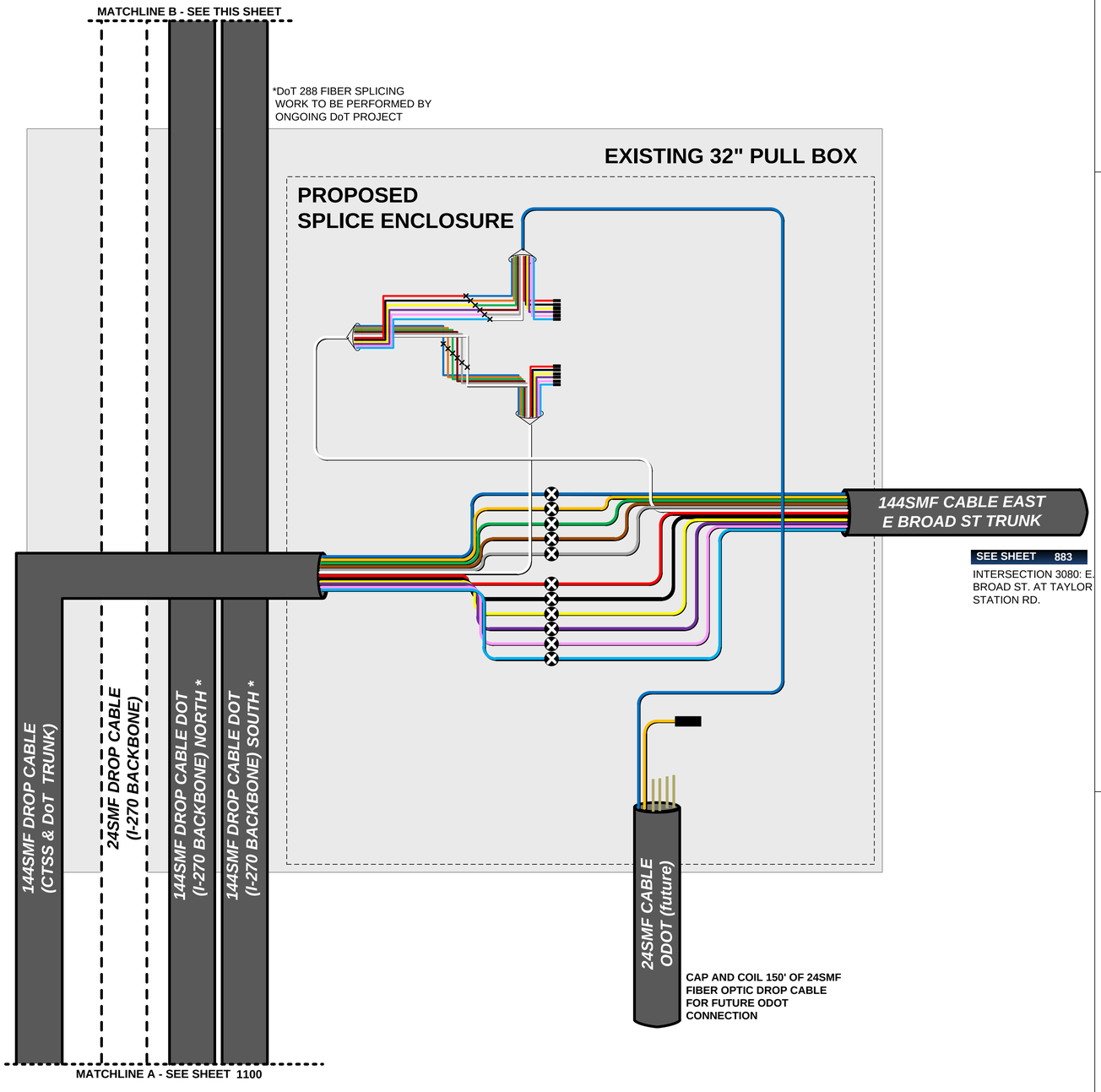
EXISTING COMMUNICATION NODE 270039.5: I-270 AT E. BROAD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

SEE SHEET 1098

PROPOSED COMMUNICATION NODE 270037.4-2: I-270 AT HAMILTON RD.





KEY

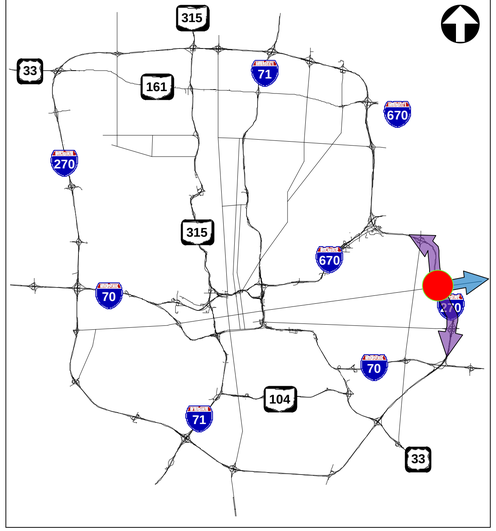
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE 270039.5

REFER TO SHEET 605 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 270039.5: I-270 AT E. BROAD ST.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING CISCO 3750 LAYER 3 ETHERNET SWITCH

Ports 1 2 LH 3 LH 4 LH 5 LH 6 LH 7 LH 8 LH 9 LH 10 LH 11 LH 12 10/100 MBS

TO: CONTROL EQUIPMENT MONITOR

PORT 7: EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670
PORT 8: INTERSECTION 0099: NATIONWIDE BLVD. AT NEIL AVE.
SEE SHEET 854
PORT 9: INTERSECTION 0113: BRODBELT LN. AT NEIL AVE.
SEE SHEET 865
PORT 10: INTERSECTION 0102: DUBLIN RD. AT SOUDER AVE.
SEE SHEET 856
PORT 11: FRANKLIN COUNTY ENGINEER OFFICE
CONNECT ORANGE-BLUE AND ORANGE ORANGE FIBERS TO SFP MODULE AT LAYER THREE NETWORK SWITCH
PORT 12: INTERSECTION 0101: DUBLIN RD. AT SR-315 NB
SEE SHEET 855

MATCHLINE A - SEE SHEET 1103

144SMF DROP CABLE (DoT)
144SMF DROP CABLE (CTSS)
144SMF DROP CABLE EAST (DoT)
144SMF DROP CABLE WEST (DoT)
144SMF DROP CABLE EAST (CTSS)
144SMF DROP CABLE WEST (CTSS)

TO BLUE-ORANGE FIBERS OF BLUE TUBE OF 288 STRAND FIBER NORTH TO NODE 315005.2

TO EXISTING FIBER OPTIC TERMINATION PANELS [3]

24SMF DROP CABLE [1]

24 STRAND LC PATCH PANEL

DoT144 STRAND LC PATCH PANEL

CTSS 144 STRAND LC PATCH PANEL

CTSS 288 STRAND LC PATCH PANEL

DoT 288 STRAND LC PATCH PANEL

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE
WEST: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

ETHERNET SWITCH PORT DESTINATION

PORT 2: INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.
SEE SHEET 764
PORT 3: INTERSECTION 0012 & 0032: LONG ST. AND SPRING ST. AT NEIL AVE.
SEE SHEET 771
PORT 4: EXISTING COMMUNICATION NODE 070096.0: I-70 AT I-670
PORT 5: EXISTING COMMUNICATION NODE 315005.2: SR-315 AT ACKERMAN
PORT 6: INTERSECTION 0103: DUBLIN RD. AT SR 315 SB ON RAMP & I-670 EB OFF RAMP
SEE SHEET 857

KEY

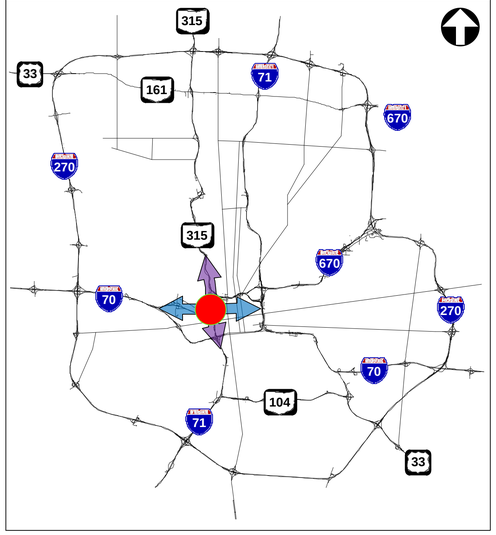
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX: GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

[3] EXISTING 288 STRAND DROP CABLE AND TERMINATION PANELS FOR SR-315 TRUNK NOT SHOWN ON THIS SHEET FOR CLARITY.

[4] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

COMMUNICATION NODE 315001.3
REFER TO SHEET 475 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/DUBLIN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

EXISTING 32" PULL BOX

SPLICE ENCLOSURE

REFER TO SHEET 475 FOR CONSTRUCTION PLAN SHEET

288SMF CABLE WEST I-670 BACKBONE

TO: EXISTING COMMUNICATION NODE 070096.0: I-70 AT I-670

288SMF CABLE EAST I-670 BACKBONE

TO: EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670

144SMF DROP CABLE DOT (I-670 BACKBONE) EAST

144SMF DROP CABLE DOT (I-670 BACKBONE) WEST

144SMF DROP CABLE CTSS (I-670 BACKBONE) EAST

144SMF DROP CABLE CTSS (I-670 BACKBONE) WEST

MATCHLINE B - SEE THIS SHEET

EXISTING 48" PULL BOX

SPLICE ENCLOSURE

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (future)

144SMF CABLE EAST DUBLIN RD TRUNK

SEE SHEET 771

INTERSECTION 0012 & 0032: LONG ST. AND SPRING ST. AT NEIL AVE.

144SMF CABLE WEST DUBLIN RD TRUNK

SEE SHEET 856

INTERSECTION 0102: DUBLIN RD. AT SOUDER AVE.

MATCHLINE B - SEE THIS SHEET

144SMF DROP CABLE DOT (I-670 BACKBONE) EAST

144SMF DROP CABLE DOT (I-670 BACKBONE) WEST

144SMF DROP CABLE CTSS (I-670 BACKBONE) EAST

144SMF DROP CABLE CTSS (I-670 BACKBONE) WEST

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

INTERSECTION 0101: DUBLIN RD. AT SR-315 NB

SEE SHEET 855

MATCHLINE A - SEE SHEET 1102

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

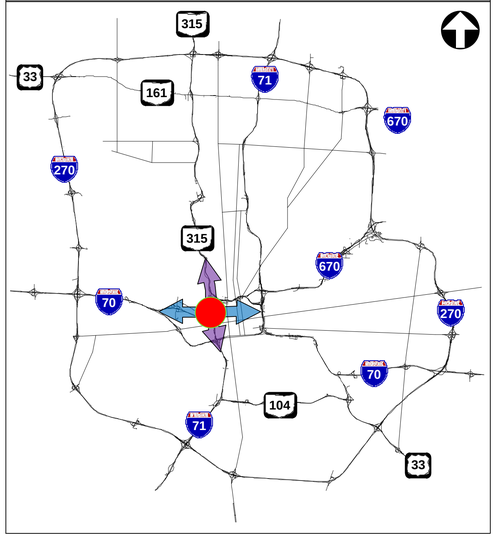
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE 315001.3

REFER TO SHEET 475 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 315001.3-2: SR-315 AT US-33/DUBLIN RD.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports	1	2	3	4	5	6	7	8	9	10	11	12
SFP Modules		LH	LH	LH	LH	LH	10/100 MBS	LH				

TO: CONTROL EQUIPMENT CABINET

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: INTERSECTION 4030: HENDERSON RD. AT LAURALAND DR.
SEE SHEET 914
PORT 3: INTERSECTION 4108: HENDERSON RD. AT OLENTANGY BLVD.
SEE SHEET 924
PORT 4: INTERSECTION 4110: HENDERSON RD. AT OLENTANGY RIVER RD.
SEE SHEET 926
PORT 5: EXISTING COMMUNICATION NODE 315005.2: SR-315 AT ACKERMAN

PORT 6: PROPOSED COMMUNICATION NODE 315008.6: SR-315 AT BETHEL RD.
SEE SHEET 925
PORT 7: INTERSECTION 4109: HENDERSON RD. AT SR-315 NB RAMPS
SEE SHEET 925
PORT 8: INTERSECTION 4121: BETHEL RD. AT REED RD.
SEE SHEET 936

KEY

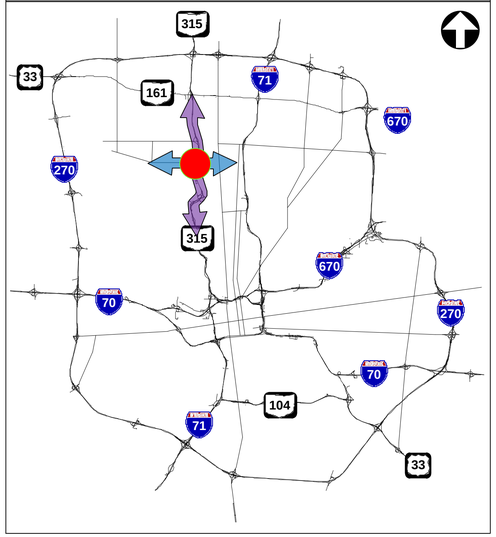
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX — GBIC OPTICAL TRANSCEIVER, LH - SHORT HAUL LED, ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 1105

MATCHLINE B - SEE SHEET 1105

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

24SMF DROP CABLE (SR-315 BACKBONE)

144SMF DROP CABLE DOT (SR-315 BACKBONE) NORTH

144SMF DROP CABLE DOT (SR-315 BACKBONE) SOUTH

CTSS 144 STRAND LC PATCH PANEL

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

WEST: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

NORTH: BLUE TUBE

SOUTH: ORANGE TUBE

CTSS 24 STRAND LC PATCH PANEL

DoT 144 STRAND LC PATCH PANEL

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

WEST: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

DoT 288 STRAND LC PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

SOUTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

[3] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

COMMUNICATION NODE 315007.8

REFER TO SHEET 711 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.
COMMUNICATIONS DIAGRAM

EXISTING COMMUNICATION NODE 315005.2: SR-315 AT ACKERMAN

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1104
1107

SEE SHEET 1106
PROPOSED COMMUNICATION NODE 315008.6: SR-315 AT BETHEL RD.

CAP AND COIL 75' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

288SMF CABLE NORTH SR-315 BACKBONE

24SMF CABLE ODOT (future)

EXISTING 32" PULL BOX

SPLICE ENCLOSURE IN EXISTING 32" PULL BOX
5 CABLE ENTRIES
336 FUSION SPLICES
10 BUFFER TUBES PASSED THROUGH UNSPLICED

24SMF DROP CABLE (SR-315 BACKBONE)

144SMF DROP CABLE DOT (SR-315 BACKBONE) NORTH

144SMF DROP CABLE DOT (SR-315 BACKBONE) SOUTH

MATCHLINE B - SEE SHEET 1104

TO: EXISTING COMMUNICATION NODE 315005.2: SR-315 AT ACKERMAN

288SMF CABLE SOUTH SR-315 BACKBONE

144SMF CABLE WEST HENDERSON RD TRUNK

SEE SHEET 926
INTERSECTION 4110: HENDERSON RD. AT OLENTANGY RIVER RD.

EXISTING 32" PULL BOX

PROPOSED SPLICE ENCLOSURE

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (future)

144SMF CABLE EAST HENDERSON RD TRUNK

SEE SHEET 924
INTERSECTION 4108: HENDERSON RD. AT OLENTANGY BLVD.

SEE SHEET 925
INTERSECTION 4109: HENDERSON RD. AT SR-315 NB RAMPS

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

MATCHLINE A - SEE SHEET 1104

KEY

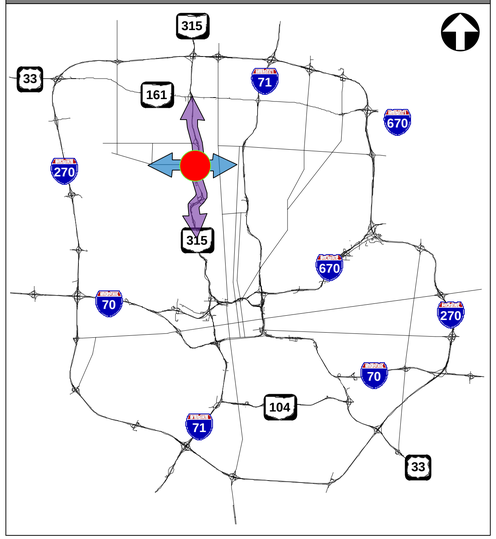
EQUIPMENT CABLE
- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE 315007.8
REFER TO SHEET 711 FOR CONSTRUCTION PLAN SHEET

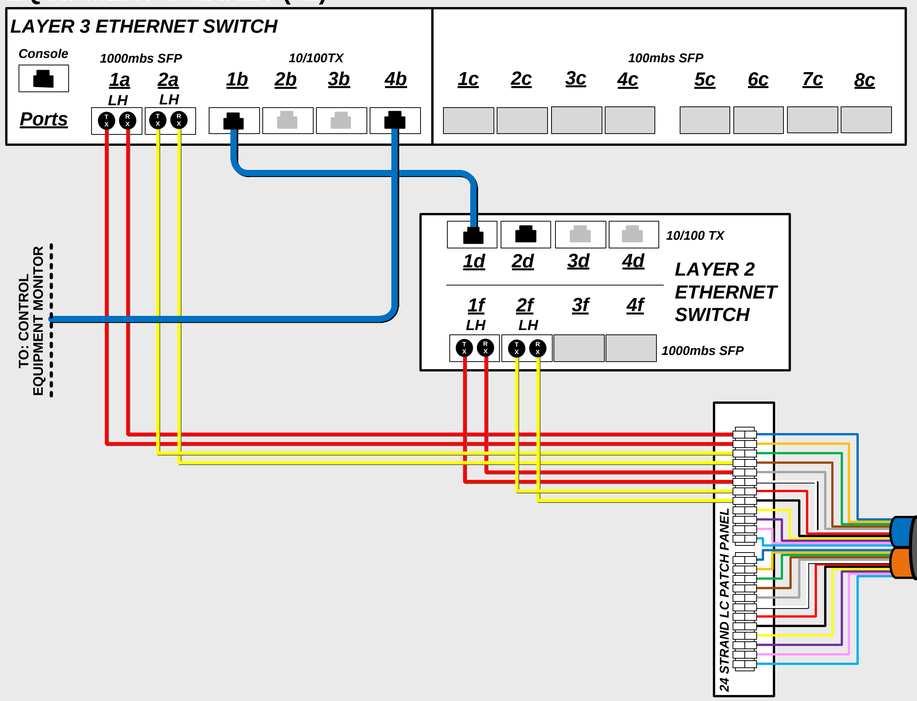
PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1105
1107

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 1a: EXISTING COMMUNICATION NODE 270022.7: I-270 AT SR-315

PORT 2a: EXISTING COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.
SEE SHEET 1104

PORT 1f: INTERSECTION BTH315NB: BETHEL RD. AT SR-315NB RAMP
SEE SHEET 1072

PORT 2f: INTERSECTION 4118: BETHEL RD. AT OLENTANGY RIVER RD.
SEE SHEET 934

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

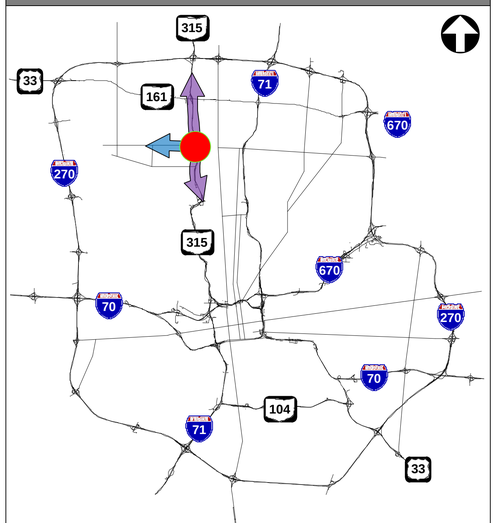
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

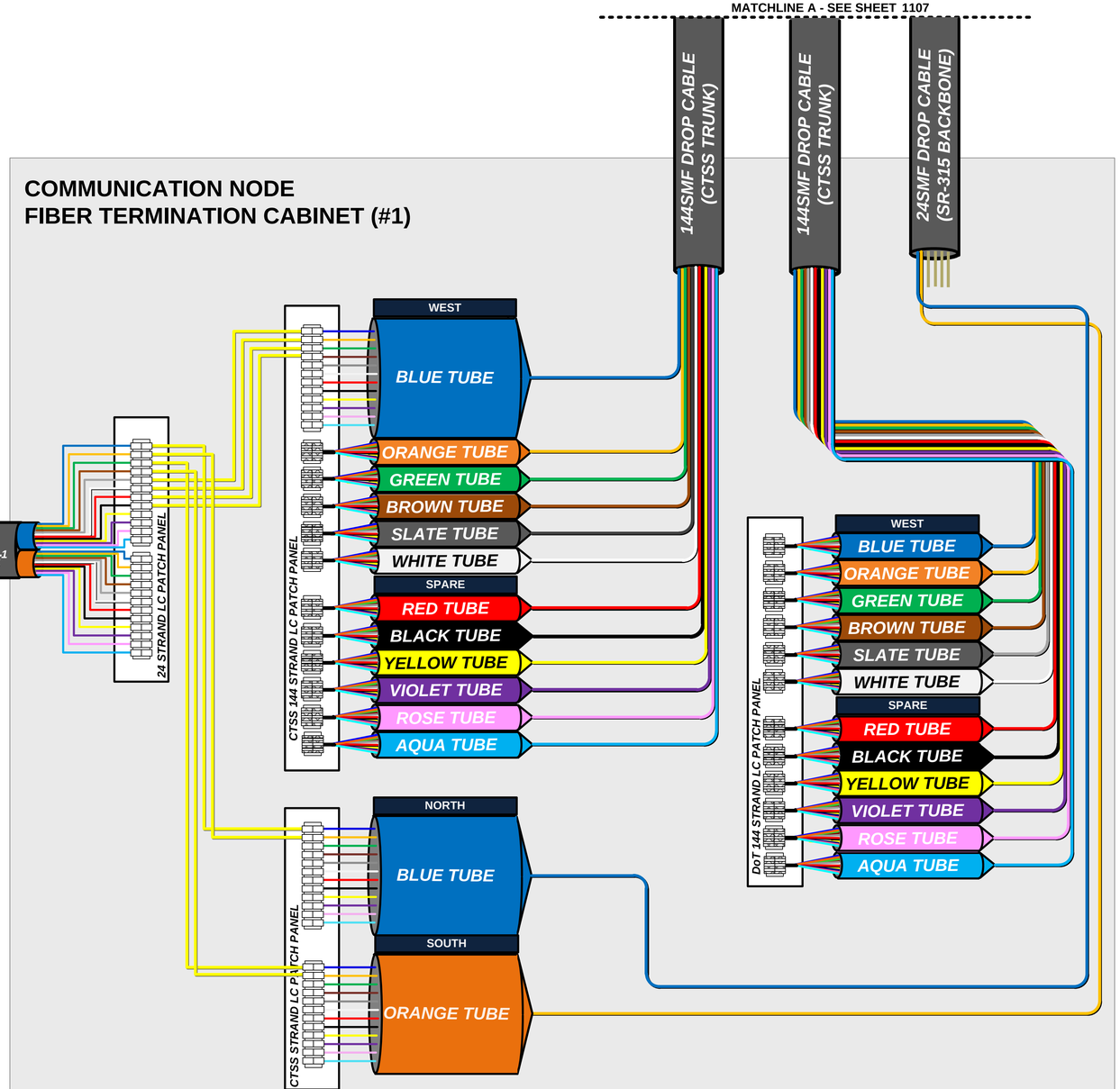
EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 315008.6

REFER TO SHEET 695 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 315008.6: SR-315 AT BETHEL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

TO: EXISTING
COMMUNICATION NODE
270022.7: I-270 AT SR-315

EXISTING 32" PULL BOX

288SMF CABLE NORTH
SR-315 BACKBONE

EXISTING
SPLICE ENCLOSURE

288SMF CABLE SOUTH
SR-315 BACKBONE

24SMF CABLE
(I-71 BACKBONE)

MATCHLINE B - SEE THIS SHEET

TO: EXISTING COMMUNICATION
NODE 315007.8: SR-315 AT
HENDERSON RD.

MATCHLINE B - SEE THIS SHEET

PROPOSED 32" PULL BOX

PROPOSED
SPLICE ENCLOSURE

144SMF CABLE WEST
BETHEL RD TRUNK

SEE SHEET 934

INTERSECTION 4118: BETHEL RD.
AT OLENTANGY RIVER RD.

24SMF DROP CABLE TO
INTERSECTION BTHL315NB

24SMF CABLE
ODOT (future)

CAP AND COIL 150' OF 24SMF
FIBER OPTIC DROP CABLE
FOR FUTURE ODOT
CONNECTION

144SMF DROP CABLE
(CTSS TRUNK)

144SMF DROP CABLE
(DoT TRUNK)

24SMF DROP CABLE
(SR-315 BACKBONE)

SEE SHEET 1072

INTERSECTION BTH315NB:
BETHEL RD. AT SR-315NB RAMP

MATCHLINE A - SEE SHEET 1106

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

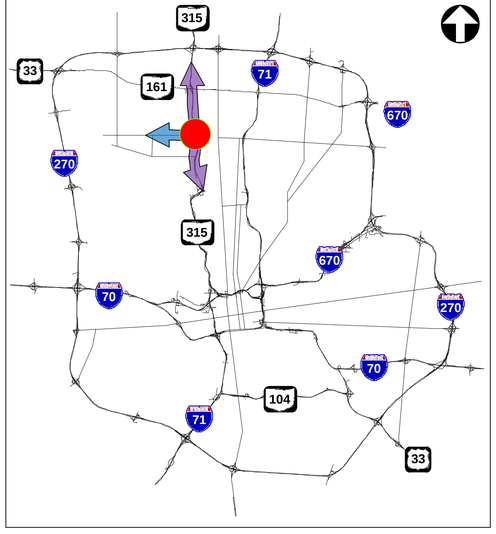
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL LED
  ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



COMMUNICATION NODE 315008.6

REFER TO SHEET 695 FOR CONSTRUCTION PLAN SHEET

PID NUMBER 13034
2762 DR. E

PROPOSED COMMUNICATION NODE 315008.6: SR-315 AT BETHEL RD.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1107
1107

EXISTING COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports	1	2	3	4	5	6	7	8	9	10	11	12
SFP Modules		LH	LH	LH	LH	ZX	LH	LH	LH	LH		

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: COMMUNICATION HUB: 77 N. FRONT ST.(LAYER 2 TRUNK LINK)
SEE SHEET1073

PORT 3: EXISTING COMMUNICATION NODE 315001.3: SR-315 AT US-33/DUBLIN RD.
SEE SHEET 1102

PORT 4: COLUMBUS TMC – 1881 E 25TH AVE COMMUNICATIONS ROOM

PORT 5: EXISTING COMMUNICATIONS NODE 670006.5

PORT 6: EXISTING COMMUNICATION NODE 270043.0: I-70 AT I-270

PORT 7: INTERSECTION 0116: LESTER DR. AT SPRING ST.
SEE SHEET 991

PORT 8: COMMUNICATION HUB: 77 N. FRONT ST(LAYER 3 LINK)
SEE SHEET 1073

PORT 9: INTERSECTION 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.
SEE SHEET 760

PORT 10: INTERSECTION 0042: BROAD ST. AT FOURTH ST.
SEE SHEET 799

KEY

EQUIPMENT CABLE

- FIBER PATCH CABLE TX/RX
- FIBER PATCH CABLE RX/TX CROSSOVER
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

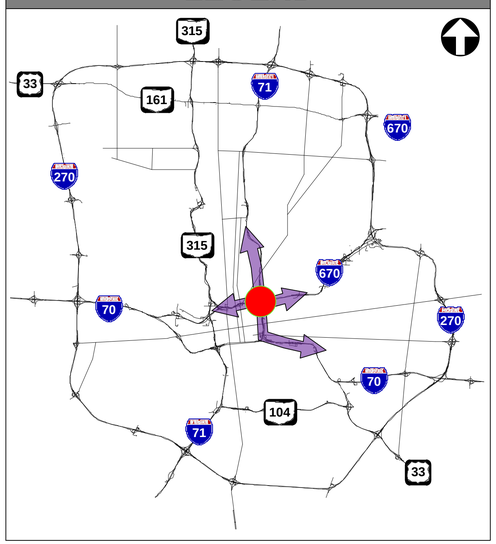
SPLICE ENCLOSURE

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL LED; ZX – LONG HAUL LASER
- 8P8C CONNECTOR USED/NOT USED
- DB-9 CONNECTION
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

LEGEND



EXISTING EAST 288 STRAND CABLE

CTSS 144 STRAND LC PATCH PANEL

BLUE TUBE

EXISTING SOUTH 288 STRAND CABLE

CTSS 144 STRAND LC PATCH PANEL

BLUE TUBE

GREEN TUBE

RED TUBE

EXISTING NORTH 288 STRAND CABLE

CTSS 144 STRAND LC PATCH PANEL

BLUE TUBE

EXISTING WEST 288 STRAND CABLE

CTSS 144 STRAND LC PATCH PANEL

BLUE TUBE

GREEN TUBE

NOTE

INACTIVE FIBERS, PATCHING, AND PATCH PANEL CONNECTIONS ARE NOT SHOWN ON THIS SHEET FOR CLARITY

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

PID NUMBER 13034
2762 DR. E

EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

1107A
1107