Legend

- Sheet Layout
- Columbus Signal
- ODOT Signal
- Franklin County Signal
- A — CTSS Node – Phase A
- B — CTSS Node – Phase B
- C — CTSS Node – Phase C
- D — CTSS Node – Phase D

SHEET 664
SHEET 665
SHEET 666
SHEET 667
SHEET 668
SHEET 669
SHEET 670
SHEET 671
SHEET 672
SHEET 673
SHEET 674
SHEET 675
SHEET 676
SHEET 677
SHEET 678
SHEET 679
SHEET 680
SHEET 681

BETHEL RD
HENDERSON RD
LANE RD
FISHINGER RD
LANE AVE
KING AVE
MORSE RD
EASTON WAY
INNIS RD
MCCUTCHEON RD
AGLER RD
HUDSON ST
MOCK RD
HAVEN CORNERS RD
TAYLOR RD
INTERNATIONAL GATEWAY
E 17TH AVE
E 11TH AVE
W 3RD AVE
E 5TH AVE
LEONARD AVE
W BROAD ST
E BROAD ST
W TOWN ST
E MAIN ST
MAIN ST
SULLIVANT AVE
MOUND ST
LIVINGSTON AVE
REED RD
KENNY RD
TREMONT RD
NORTHSTAR RD
DUBLIN RD
RIVERSIDE DR
GRANDVIEW AVE
N HIGH ST
INDIANOLA AVE
CLEVELAND AVE
WESTERVILLE RD
SUNBURY RD
STELZER RD
STYGLER RD
KARL RD
MCGUFFEY AVE
JOYCE AVE
WOODLAND AVE
BRENTNELL AVE
CASSADY AVE
GRANT ST
THIRD ST
SUMMIT ST
PARSONS AVE
MILLER AVE
KELTON AVE
JAMES RD
HAMILTON RD

SIG4115 SIG4005 SIG4900 SIG4295 SIG4200 SIG4045 TMC TFMWS

MATCHLINE A – SEE SHEET 652

CIP: 540007 - 100006
PID NUMBER: 82573

COMMUNICATION SHEETS LAYOUT (1 OF 2)
COLUMBUS METRO AREA

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

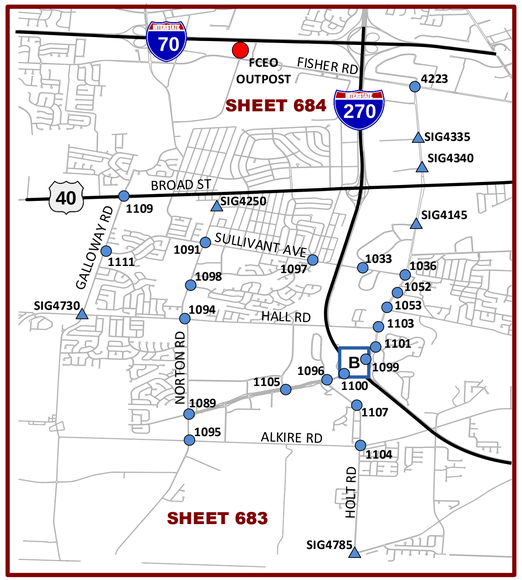
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3150-E

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MATCHLINE A – SEE SHEET 651

GREENLAWN AVE
HARRISBURG PIKE
HARMON AVE
HIGH ST
FRANK RD
104
71
70
270
REFUGEE RD
CHATTERTON RD
33
C
D
SIG4910
2194
2199
BRICE RD
GROVEPORT RD
23
PARSONS AVE
ALUM CREEK DR
SHEET 682
WILLIAMS RD
SIG4920
EBRIGHT RD
WINCHESTER PIKE
317
HOOVER RD
JACKSONS PIKE
SIG4940
FCEO OUTPOST
HENDRON RD



Legend

- Sheet Layout
- Columbus Signal
- ODOT Signal
- Franklin County Signal
- A — CTSS Node – Phase A
- B — CTSS Node – Phase B
- C — CTSS Node – Phase C
- D — CTSS Node – Phase D

3150-E

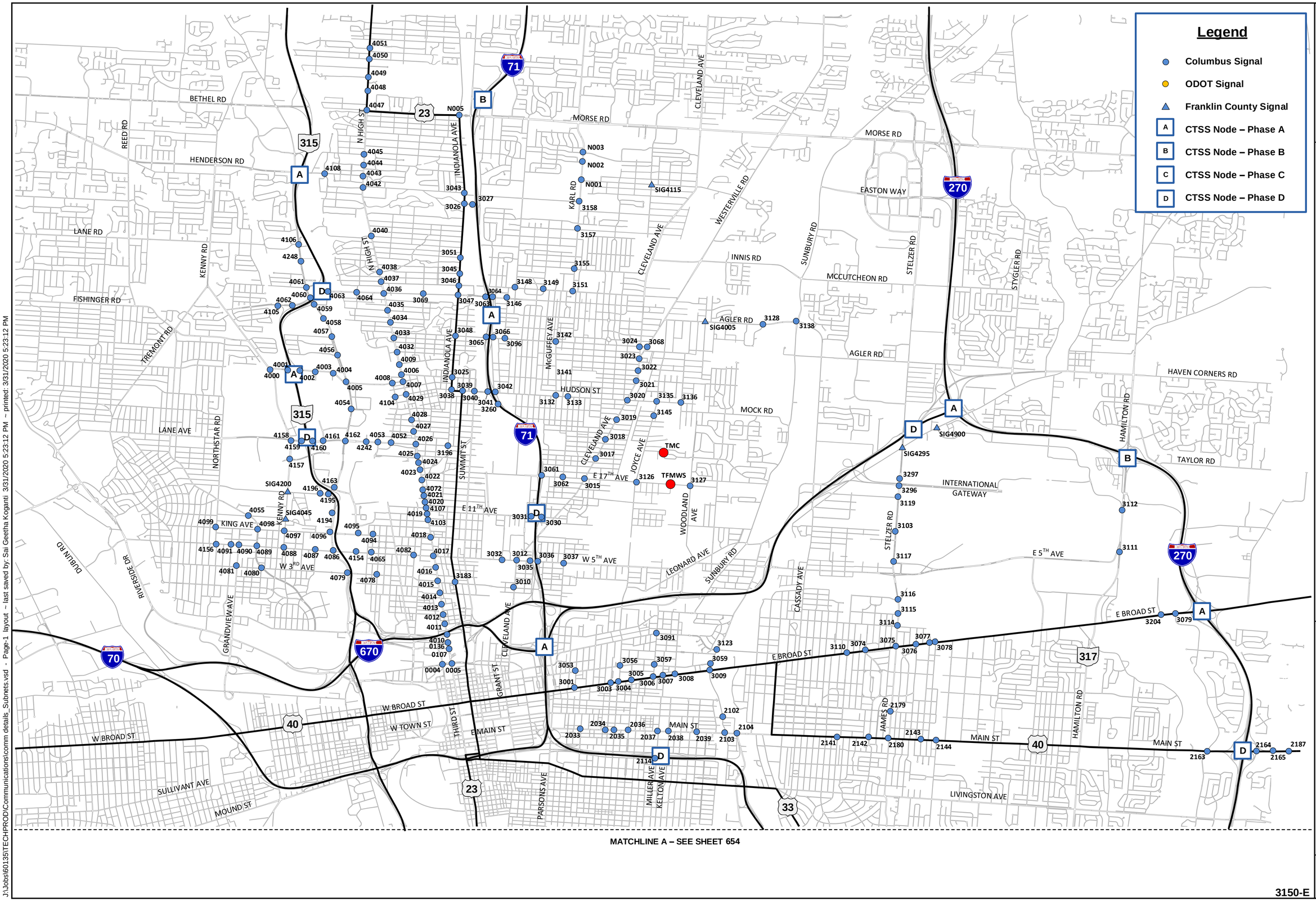
CIP: 540007 - 100006
PID NUMBER: 82573

COMMUNICATION SHEETS LAYOUT (2 OF 2)
COLUMBUS METRO AREA

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

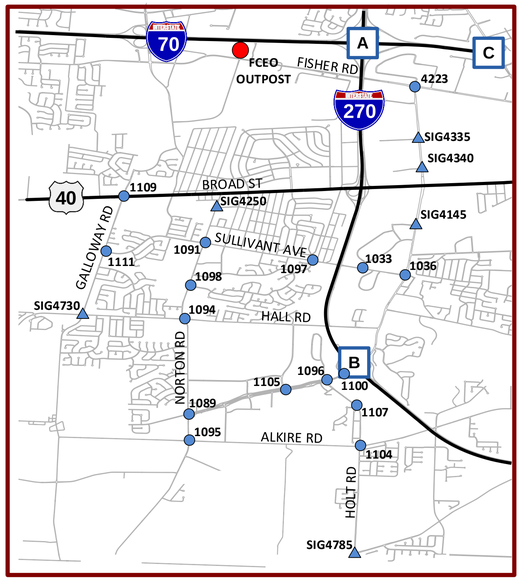
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Legend
Columbus Signal
ODOT Signal
Franklin County Signal
CTSS Node – Phase A
CTSS Node – Phase B
CTSS Node – Phase C
CTSS Node – Phase D
BETHEL RD
HENDERSON RD
LANE RD
FISHINGER RD
LANE AVE
W 3RD AVE
E 11TH AVE
E 17TH AVE
MORSE RD
INNIS RD
MCCUTCHEON RD
AGLER RD
MOCK RD
EASTON WAY
INTERNATIONAL GATEWAY
HAVEN CORNERS RD
TAYLOR RD
HUDSON ST
KING AVE
W BROAD ST
E BROAD ST
W TOWN ST
E MAIN ST
MAIN ST
LEONARD AVE
E 5TH AVE
SULLIVANT AVE
MOUND ST
LIVINGSTON AVE
MATCHLINE A – SEE SHEET 654
CIP: 540007 - 100006
PID NUMBER: 82573
SUBNETS MAP LAYOUT (1 OF 2)
COLUMBUS METRO AREA
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT
653
1000
3150-E
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MATCHLINE A – SEE SHEET 653

GREENLAWN AVE
HARRISBURG PIKE
HARMON AVE
HIGH ST
FRANK RD
104
71
70
270
REFUGEE RD
CHATTERTON RD
33
SIG4910
C
D
2194
2199
BRICE RD
GROVEPORT RD
23
PARSONS AVE
ALUM CREEK DR
WILLIAMS RD
SIG4920
EBRIGHT RD
WINCHESTER PIKE
317
HOOVER RD
JACKSONS PIKE
SIG4940
FCEO OUTPOST
HENDRON RD
SIG4785



Legend

- Columbus Signal
- ODOT Signal
- Franklin County Signal
- A — CTSS Node – Phase A
- B — CTSS Node – Phase B
- C — CTSS Node – Phase C
- D — CTSS Node – Phase D

3150-E

CIP: 540007 - 100006
PID NUMBER: 82573

SUBNETS MAP LAYOUT (2 OF 2)
COLUMBUS METRO AREA

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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CIP: 540007 - 100006
PID NUMBER: 82573

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

655
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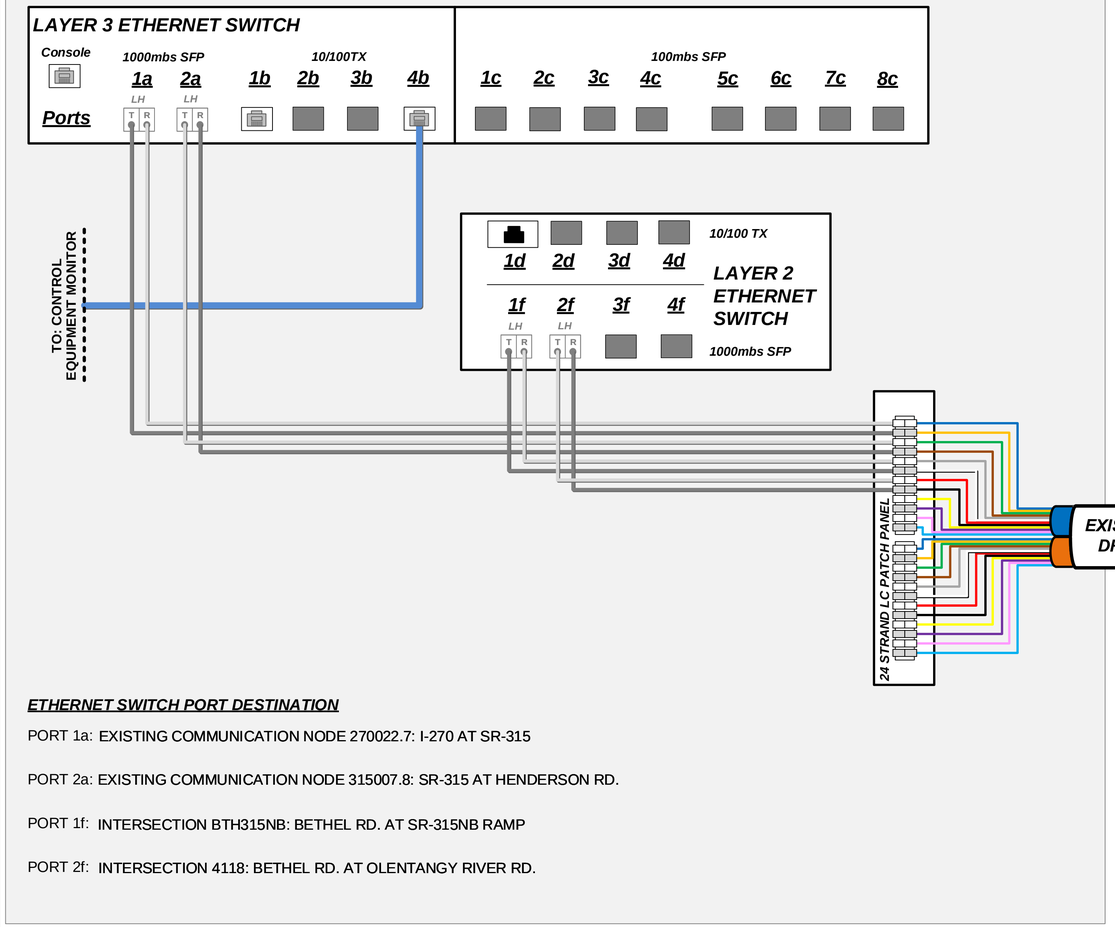
CIP: 540007 - 100006
PID NUMBER: 82573

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

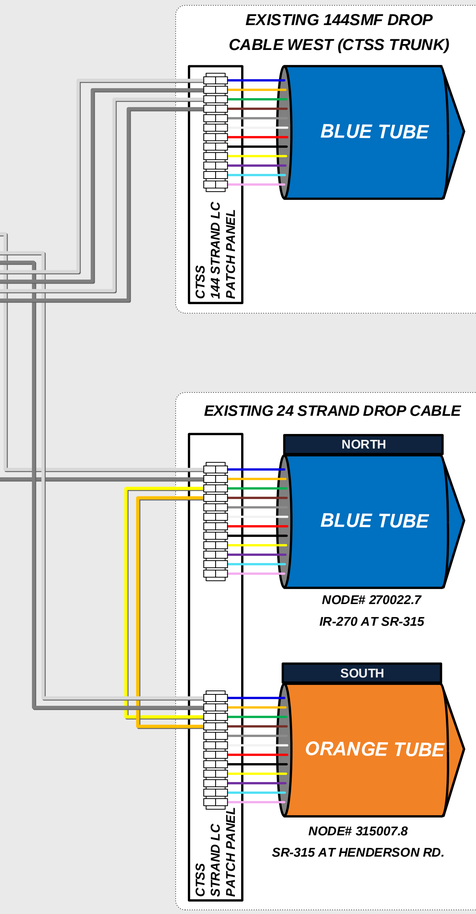
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EXISTING COMMUNICATION NODE EQUIPMENT CABINET (#2)



EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



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.

PORT 1f: INTERSECTION BTH315NB: BETHEL RD. AT SR-315NB RAMP

PORT 2f: INTERSECTION 4118: BETHEL RD. AT OLENTANGY RIVER RD.

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

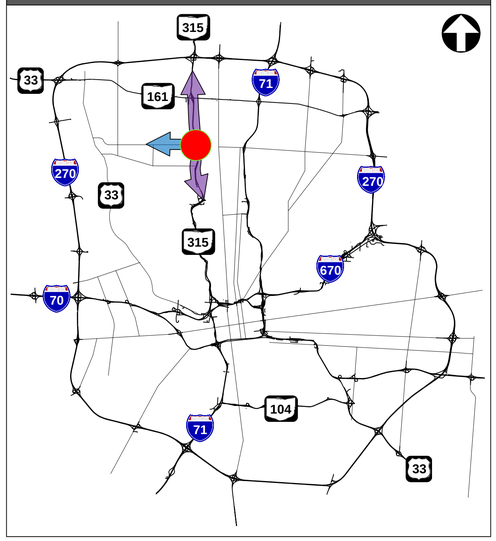
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

1. EXISTING 144 STRAND DoT DROP CABLES AND TERMINATION PANELS NOT SHOWN ON THIS SHEET FOR CLARITY. THOSE CABLES WILL NOT BE USED TO PERFORM ANY PROPOSED WORK SHOWN ABOVE.

COMMUNICATION NODE 315008.6

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 315008.6: SR-315 AT BETHEL RD.

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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EXISTING COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 5 6 7 8 9 10 11 12

SFP Modules: 1 2 3 4 5 LH 6 LH 7 LH 8 LH 9 LH 10 11 12

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

EXISTING 24SMF DROP CABLE

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE #070094.1: IR-70 AT WILSON RD.

PORT 6: EXISTING COMMUNICATION NODE #270009.3: IR-270 AT TRABUE RD.

PORT 7: EXISTING COMMUNICATION NODE# 270004.5: GEORGESVILLE RD. AT IR-270

PORT 8: INT# 4223: FISHER RD. AT PHILLIPI RD.
SEE SHEET 957

PORT 9: INT# 4223: FISHER RD. AT PHILLIPI RD.
SEE SHEET 957

EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

EXISTING 144SMF DROP CABLE SOUTH (CTSS TRUNK)

BLUE TUBE

CTSS 144 STRAND LC PATCH PANEL

NODE# 270004.5
IR-270 AT GEORGESVILLE RD.

CTSS 2RU PATCH

EAST

BLUE TUBE

WEST

ORANGE TUBE

24SMF DROP CABLE CTSS

EXISTING 144SMF DROP CABLE EAST (CTSS TRUNK)

BLUE TUBE

CTSS 144 STRAND LC PATCH PANEL

NODE# 070094.1
IR-70 AT WILSON RD.

EXISTING 144SMF DROP CABLE NORTH (CTSS TRUNK)

BLUE TUBE

CTSS 144 STRAND LC PATCH PANEL

NODE# 270009.3
IR-270 AT TRABUE RD.

TO:
SPLICE-14 AT
IR-270 AND
FISHER RD.
SEE SHEET 956A

2 Cable Entries
24 Proposed Fusion Splices

24SMF CABLE CTSS

EXISTING 48" PULLBOX AT NODE #270008.7: IR-70 AT IR-270

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

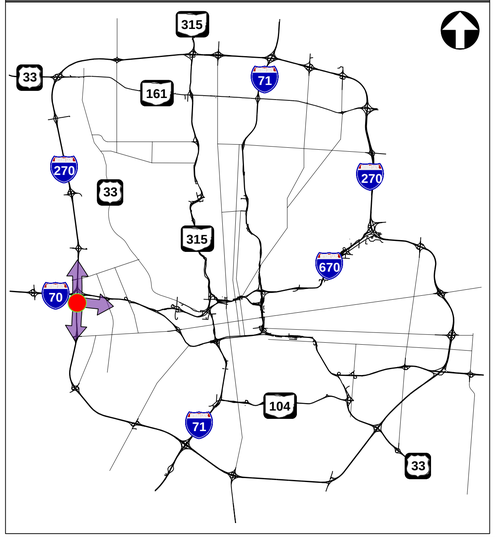
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

1. EXISTING 144 STRAND DoT DROP CABLES AND TERMINATION PANELS NOT SHOWN ON THIS SHEET FOR CLARITY. THOSE CABLES WILL NOT BE USED TO PERFORM ANY PROPOSED WORK SHOWN ABOVE.

COMMUNICATION NODE 270008.7

REFER TO SHEET 684 FOR COMMUNICATIONS OVERVIEW

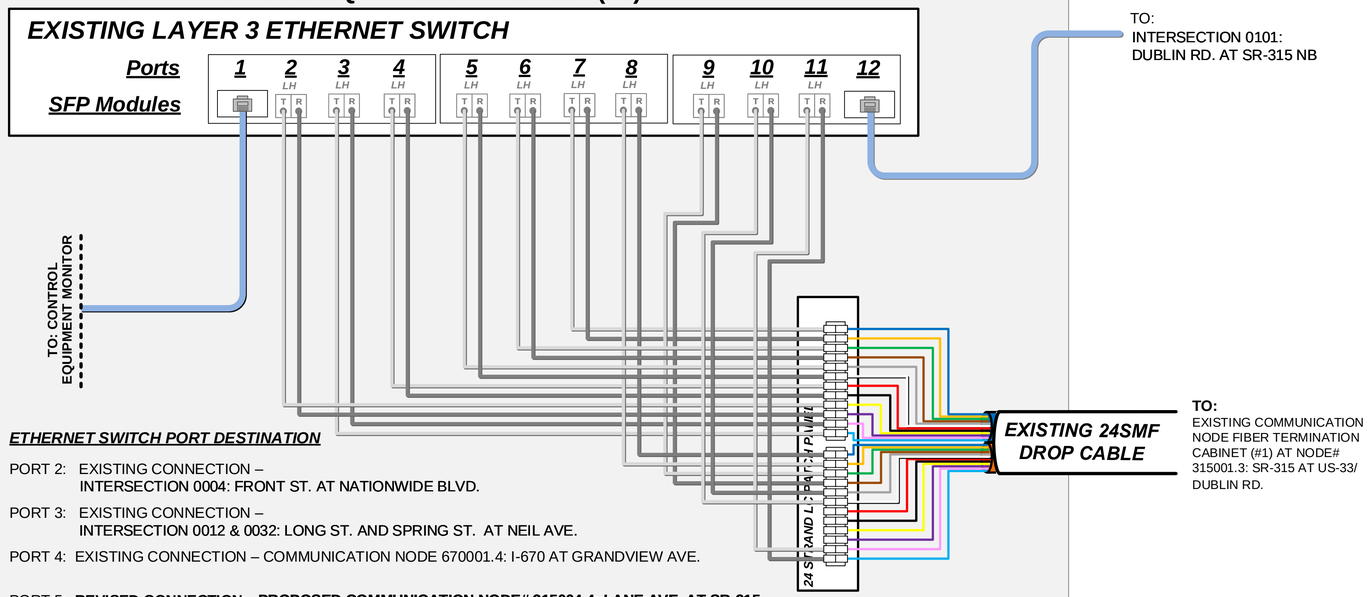
CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270008.7: I-270 AT I-70.

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO:
INTERSECTION 0101:
DUBLIN RD. AT SR-315 NB

TO:
EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1) AT NODE# 315001.3: SR-315 AT US-33/ DUBLIN RD.

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION –
INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.

PORT 3: EXISTING CONNECTION –
INTERSECTION 0012 & 0032: LONG ST. AND SPRING ST. AT NEIL AVE.

PORT 4: EXISTING CONNECTION – COMMUNICATION NODE 670001.4: I-670 AT GRANDVIEW AVE.

PORT 5: **REVISED CONNECTION – PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315**
SEE SHEET 968

PORT 6: EXISTING CONNECTION – INTERSECTION 0103: DUBLIN RD. AT SR 315 SB ON RAMP & I-670 EB OFF RAMP

PORT 7: EXISTING CONNECTION – COMMUNICATION NODE 071109.0: I-71 AT I-670

PORT 8: EXISTING CONNECTION – INTERSECTION 0099: NATIONWIDE BLVD. AT NEIL AVE.

PORT 9: EXISTING CONNECTION – INTERSECTION 0113: BRODBELT LN. AT NEIL AVE.

PORT 10: EXISTING CONNECTION – INTERSECTION 0102: DUBLIN RD. AT SOUDER AVE.

PORT 11: PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.

PORT 12: EXISTING CONNECTION – 0101: DUBLIN RD. AT SR-315 NB

LEGEND

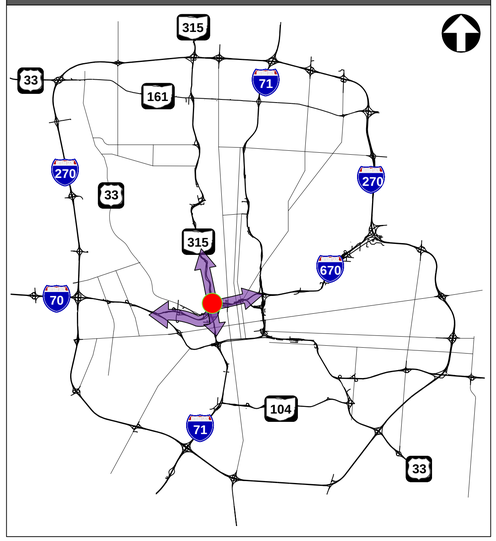
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX LH/ZX* GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

1. NO NEW SPLICING OR PATCHING AT THIS COMMUNICATION NODE SITE. SHEET UPDATED TO REFLECT REVISED PORT DESTINATIONS.

COMMUNICATION NODE 315001.3

CIP: 540007 - 100006
PID NUMBER: 82573

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

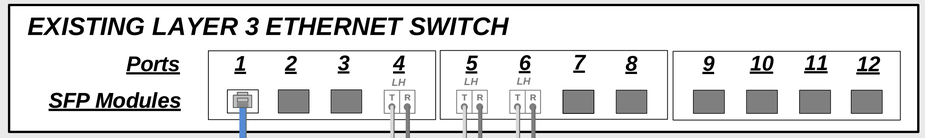
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH



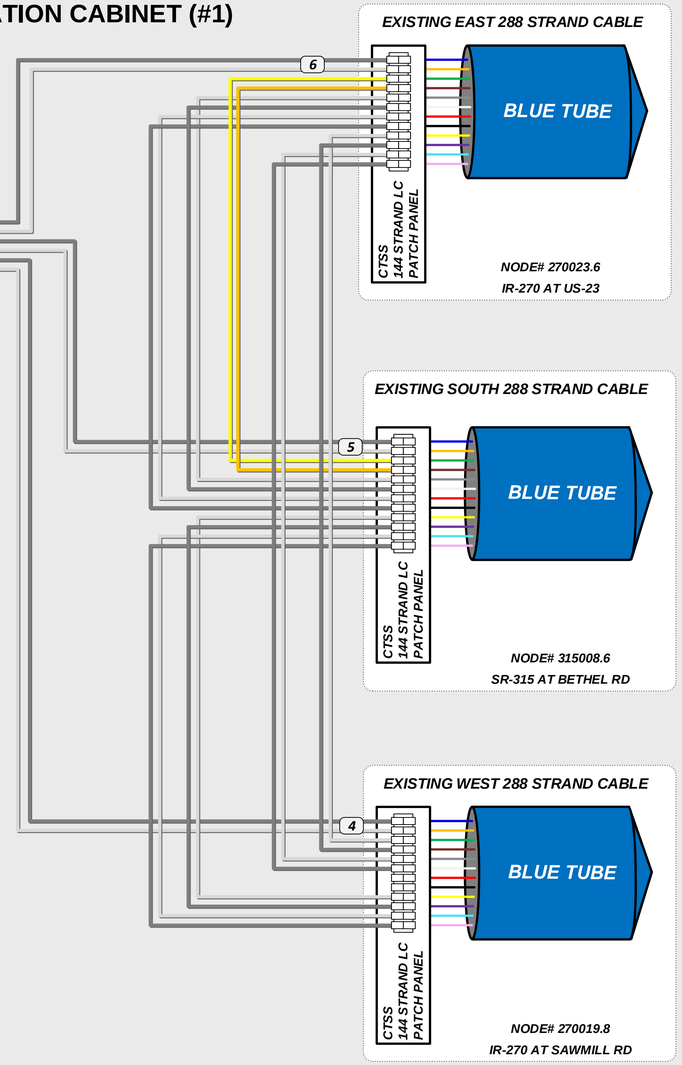
ETHERNET SWITCH PORT DESTINATION

PORT 4: EXISTING CONNECTION TO COMMUNICATION NODE# 270019.8: IR-270 AT SAWMILL RD.

PORT 5: EXISTING CONNECTION TO COMMUNICATION NODE# 315007.8: SR-315 AT HENDERSON RD.

PORT 6: EXISTING CONNECTION TO COMMUNICATION NODE# 270023.6: IR-270 AT US-23

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

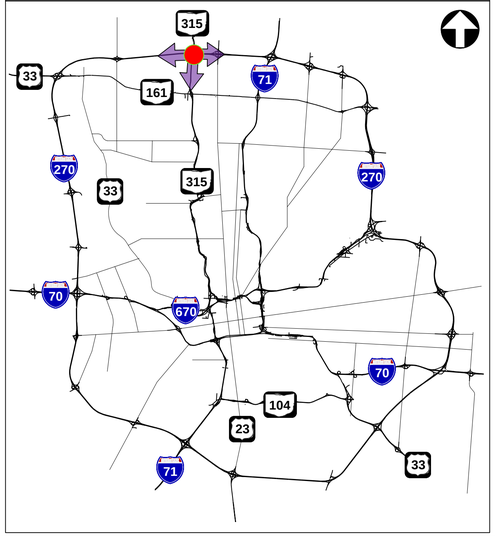
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270022.7

CIP: 540007 - 100006
PID NUMBER: 82573

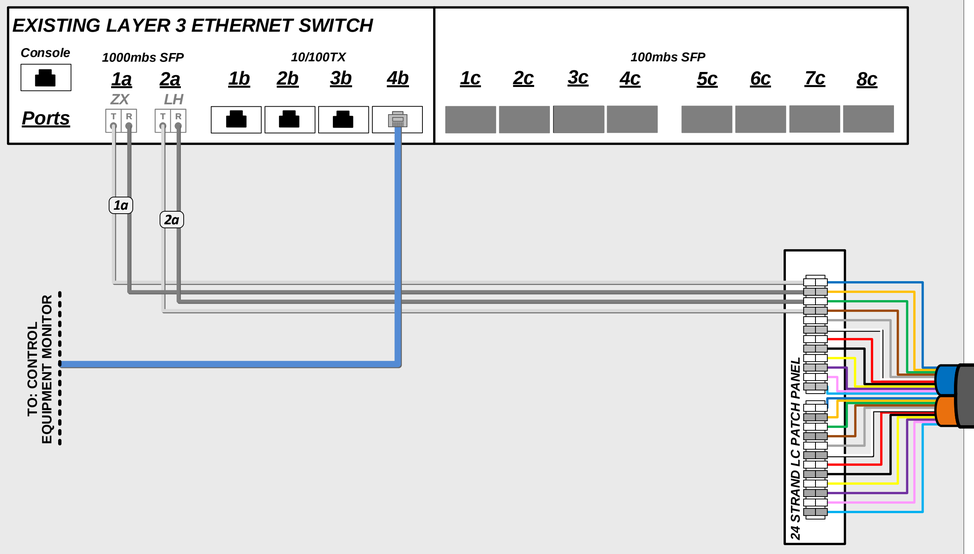
EXISTING COMMUNICATION NODE# 270022.7: I-270 AT SR-315
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

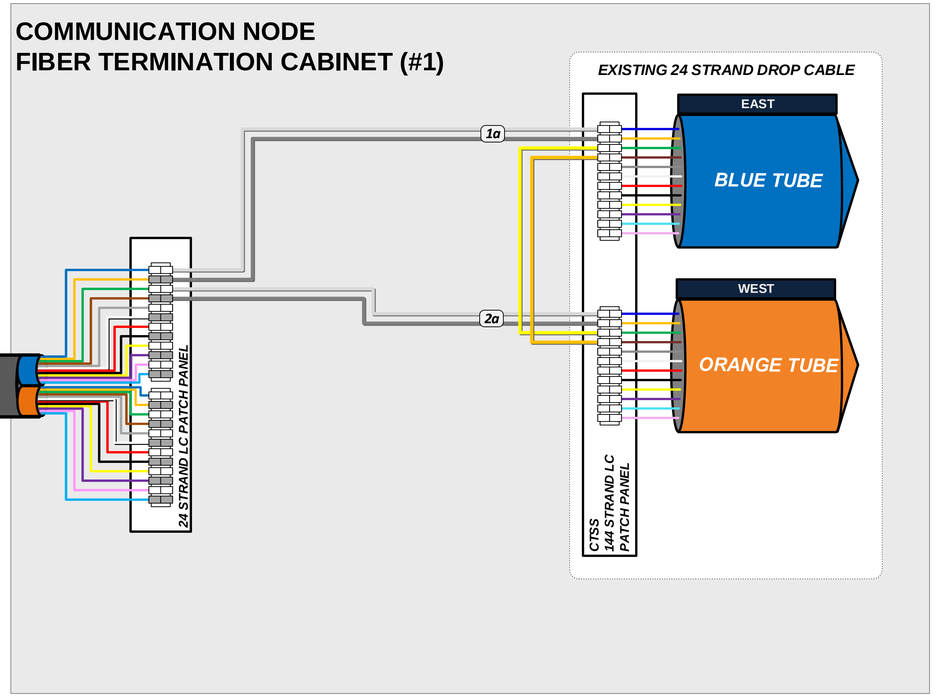
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COMMUNICATION NODE EQUIPMENT CABINET (#2)



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



ETHERNET SWITCH PORT DESTINATION

PORT 1a: EXISTING CONNECTION TO COMMUNICATION NODE# 270025.9: IR-71 AT IR-270

PORT 2a: EXISTING CONNECTION TO COMMUNICATION NODE# 270022.7: IR-270 AT SR-315

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

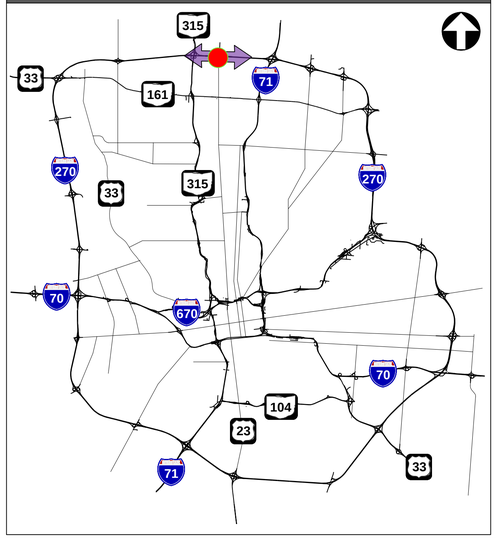
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270023.6

CIP: 540007 - 100006
PID NUMBER: 82573

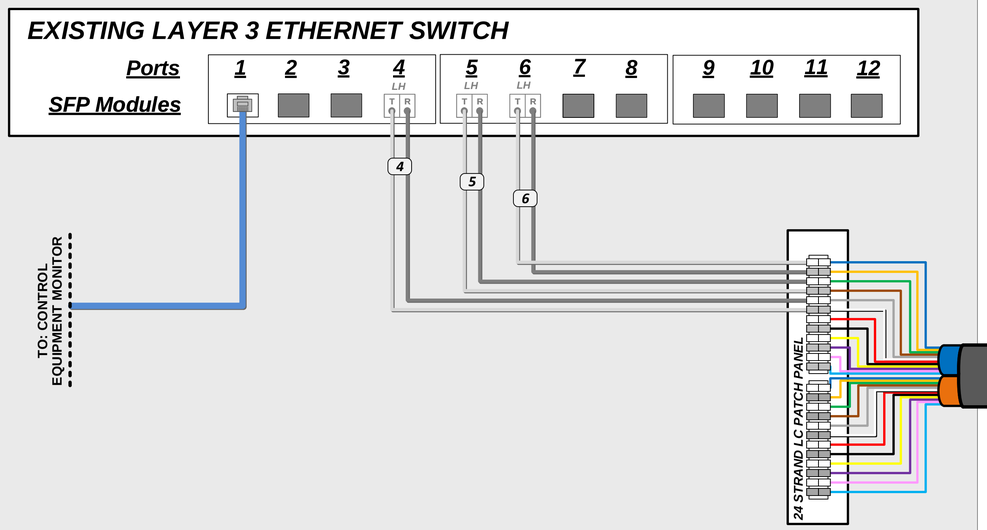
EXISTING COMMUNICATION NODE# 270023.6: I-270 AT US-23
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

661
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J:\Jobs\60135\TECHPROD\Communications\Node Sheets\Phase D comm nodes.vsd - 270023.6 layout - last saved by: Sai Geetha Kogant 3/31/2020 5:16:59 PM ~ printed: 3/31/2020 5:16:59 PM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



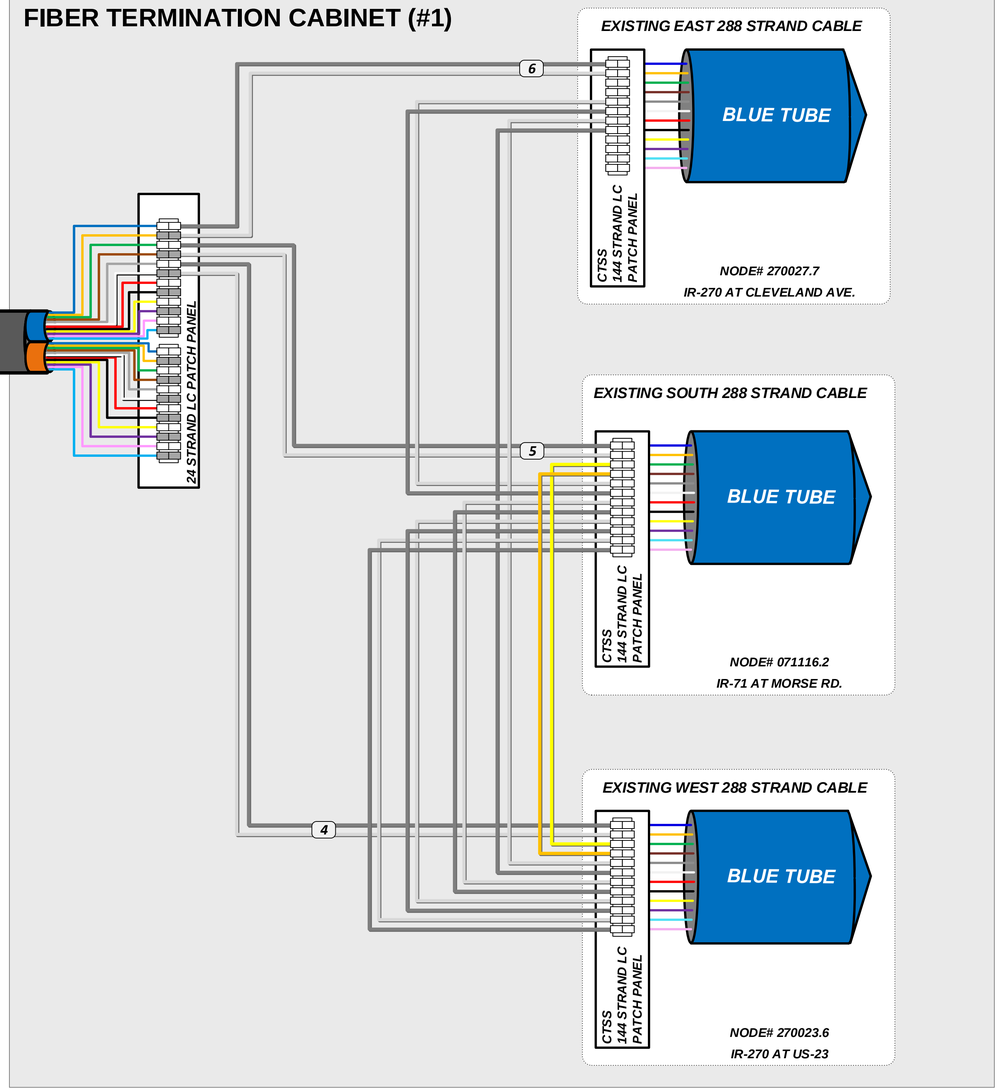
ETHERNET SWITCH PORT DESTINATION

PORT 4: EXISTING CONNECTION TO COMMUNICATION NODE# 270023.6: IR-270 AT US-23

PORT 5: EXISTING CONNECTION TO COMMUNICATION NODE# 071116.2: IR-71 AT MORSE RD.

PORT 6: EXISTING CONNECTION TO COMMUNICATION NODE# 270027.7: IR-270 AT CLEVELAND AVE.

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

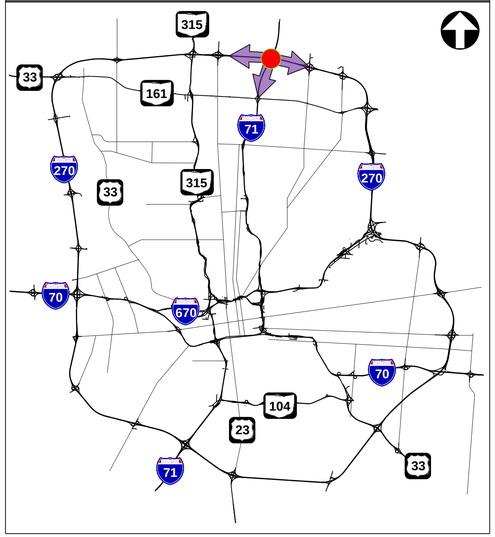
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270025.9

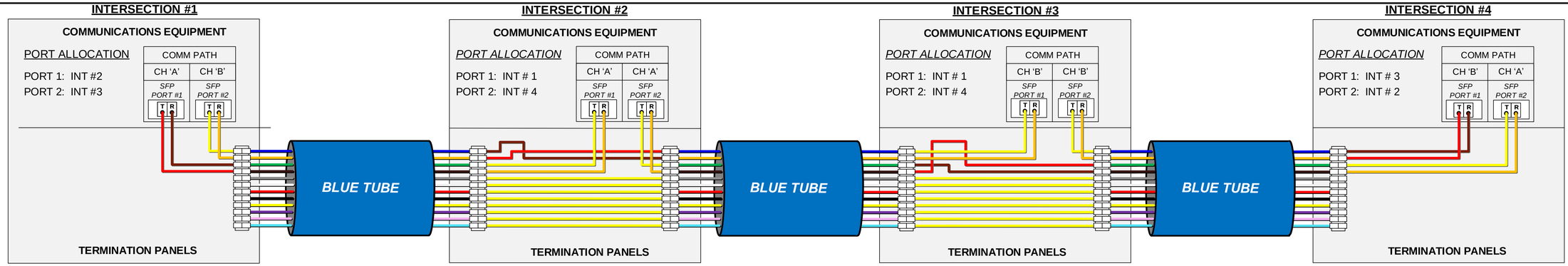
CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270025.9: I-270 AT I-71
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

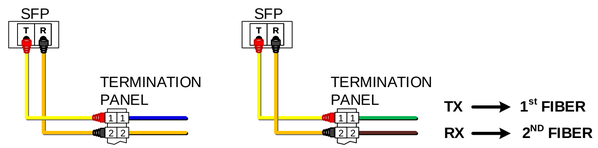
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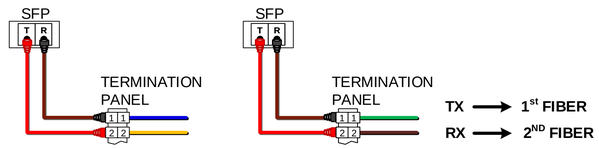


DUAL CHANNEL FIBER OPTIC COMMUNICATIONS PATH DIAGRAM

PATCH CABLES [1,2]



STANDARD



CROSSOVER

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

LEGEND

- BLUE BUFFER TUBE
- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- ✕ FUSION SPLICE – SINGLE FIBER
- ⊗ FUSION SPLICE – PARTIAL BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER

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 SPLICE ENCLOSURE

8P8C CONNECTOR

RF CONNECTOR

WIRELESS RADIO

PROPOSED PTZ TRAFFIC SURVEILLENCE CAMERA — PROPOSED CCTV

EXISTING TRAFFIC SURVEILLENCE CAMERA — EXISTING CCTV

EXISTING FIBER OPTIC CABLE — SMF CABLE

PROPOSED FIBER OPTIC CABLE — SMF CABLE

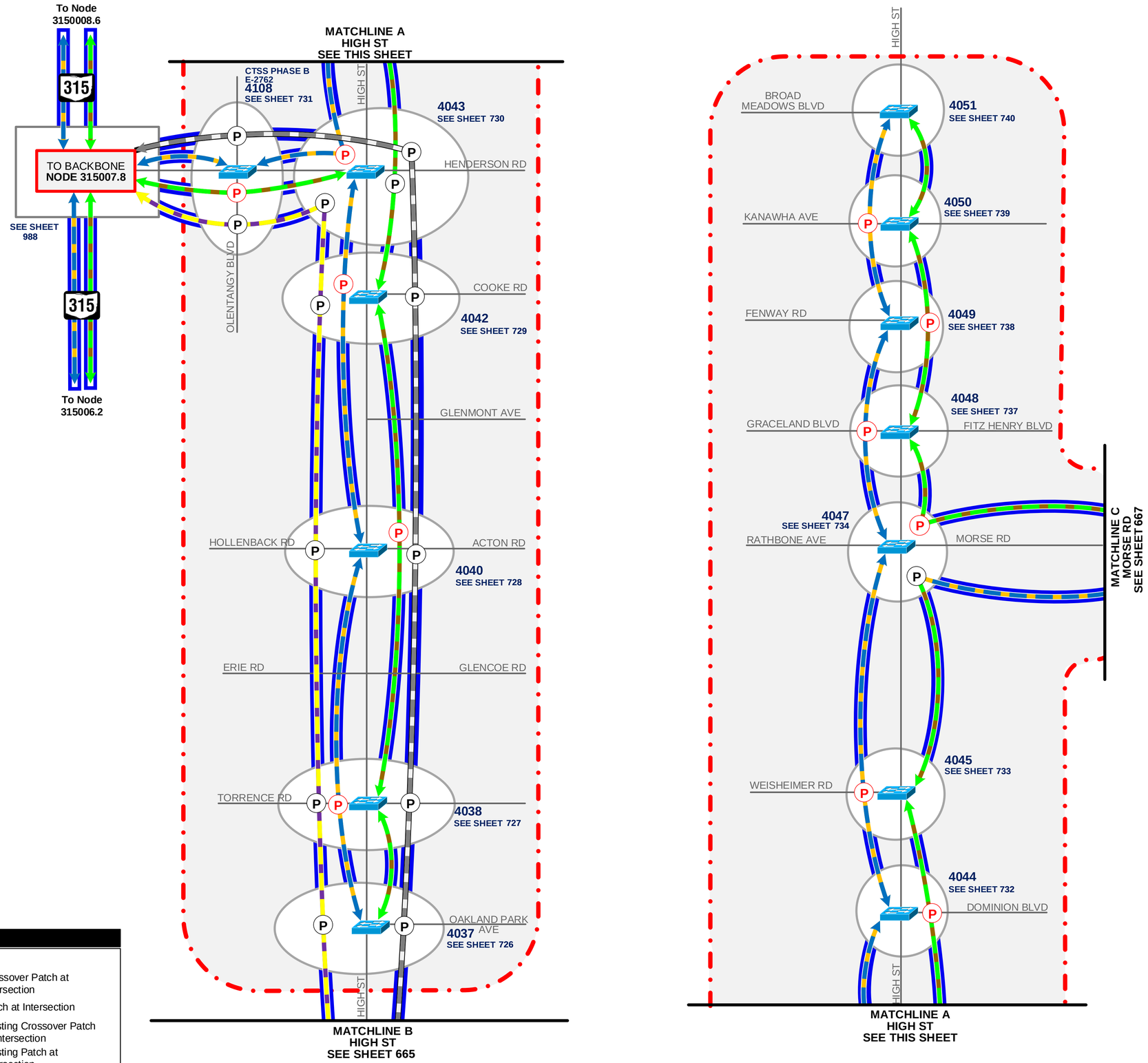
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PID NUMBER: 82573

COMMUNICATION NOTES

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching

- (P) Crossover Patch at Intersection
- (P) Patch at Intersection
- (P) Existing Crossover Patch at Intersection
- (P) Existing Patch at Intersection

NOT TO SCALE

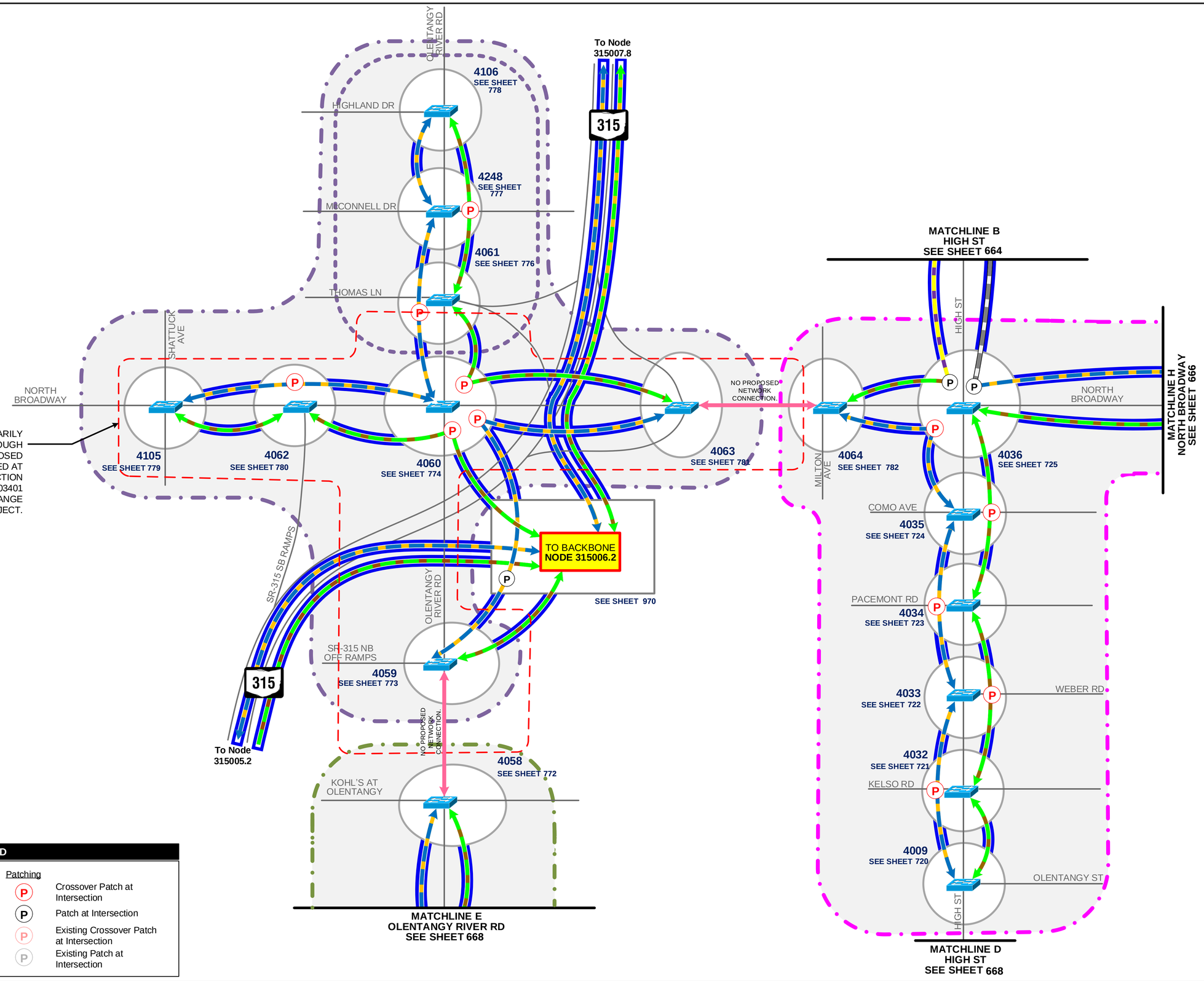
DR-E: 3160-E
PID NUMBER: 82573

HIGH ST CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

664
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J:\Jobs\60135\TECHPROD\Communications\CTSS Phase D Communications_Layer 2(A and B)_Subnets.vsd - N HIGH ST - 1 layout – last saved by: Sai Geetha Koganti 4/1/2020 2:11:41 PM – printed: 4/1/2020 2:11:41 PM



LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching

- (P) Crossover Patch at Intersection
- (P) Patch at Intersection
- (P) Existing Crossover Patch at Intersection
- (P) Existing Patch at Intersection

NOT TO SCALE

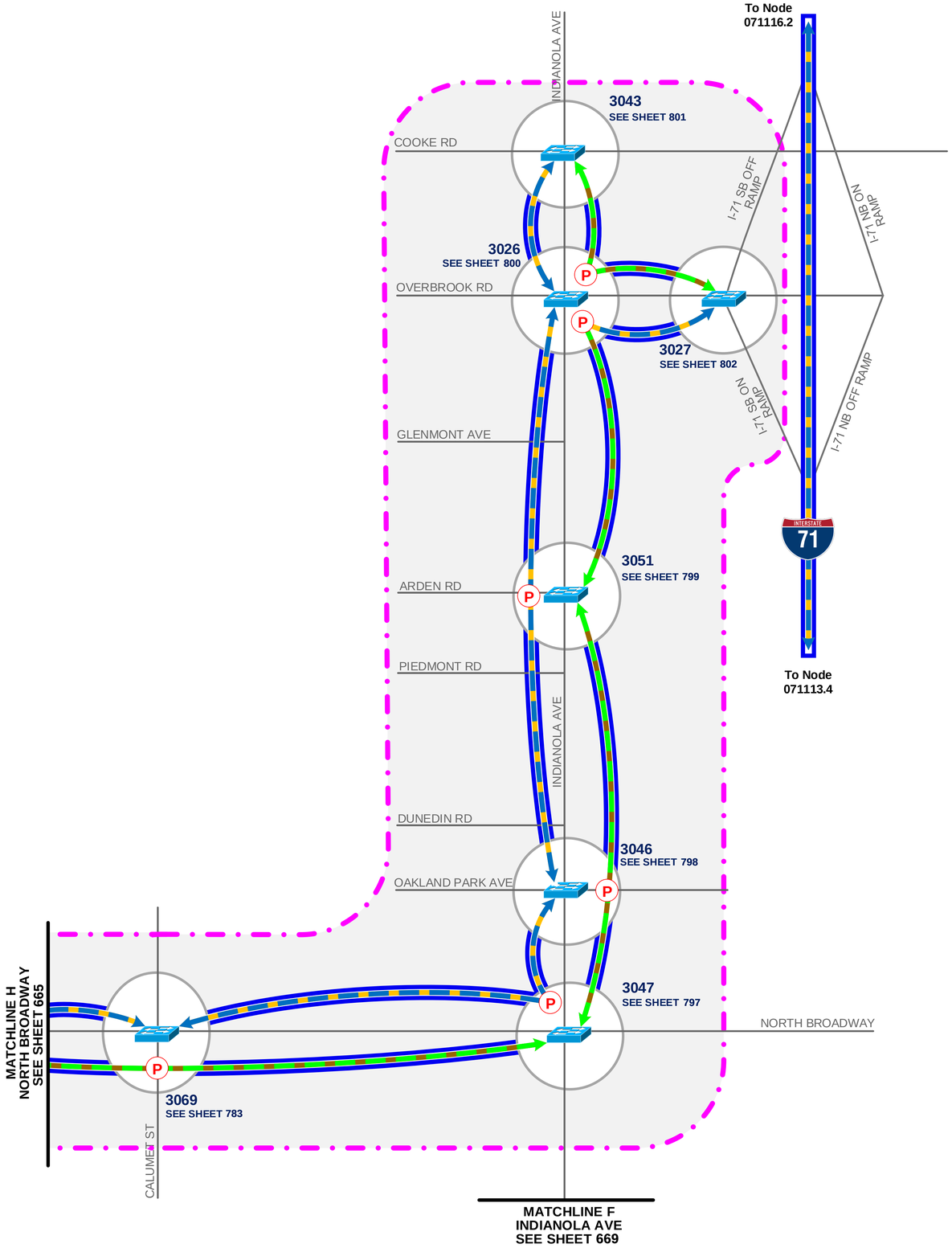
DR-E: 3160-E
PID NUMBER: 82573

NORTH BROADWAY CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

665
1000

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LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching

- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

INDIANOLA AVE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

666
1000

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To Node
270025.9

SEE SHEET 999

TO PHASE B
BACKBONE
NODE 071116.2

INTERSTATE 71

SINCLAIR RD

N006

I-71 SB OFF RAMP

INDIANOLA AVE

CTSS PHASE B
E-2762

MATCHLINE C
HIGH ST
SEE SHEET 664

MORSE RD

N005
SEE SHEET 735

N007
SEE SHEET 736

I-71 NB ON RAMP

EVANSWOOD DR

N008

N046

N009

SANDY LN RD

MAIZE RD

N010

BREAKLINE
EAST TO INT N012:
MORSE RD AT KARL RD

3165

GARDEN RD

3029
SEE SHEET 803

COOKE RD

MAIZE RD

I-71 SB ON RAMP

I-71 NB OFF RAMP

INTERSTATE 71

To Node
071113.4

LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching

- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

MORSE RD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

667
1000

MATCHLINE E
OLENTANGY RIVER RD
SEE SHEET 665

MATCHLINE D
HIGH ST
SEE SHEET 665

MATCHLINE K
ARCADIA AVE
SEE SHEET 669

MATCHLINE J
LANE AVE
SEE SHEET 670

MATCHLINE F
INDIANOLA AVE
SEE SHEET 674

To Node
315006.2

To Node
315004.4

315

SEE SHEET 972
TO BACKBONE
NODE 315005.2

RIVERVIEW DR
HARLEY DR
KENNY RD
SR-315 SB OFF RAMP
SR-315 SB ON RAMP
SR-315 NB OFF RAMP
FRED TAYLOR DR
DEFIANCE DR
NEIL AVE
HIGH ST
ARCADIA AVE
ACKERMAN RD
DODRIDGE ST
HUDSON ST
PATTERSON AVE
NORTHWOOD AVE
ARGYLL ST
SR-315 SB OFF RAMPS
OLENTANGY RIVER RD
LANE AVE
PERRY ST
TUTTLE PARK PL
INDIANOLA AVE

4057 SEE SHEET 771
4056 SEE SHEET 770
4006 SEE SHEET 719
4008 SEE SHEET 718
4005 SEE SHEET 768
4000 SEE SHEET 763
4001 SEE SHEET 764
4002 SEE SHEET 765
4003 SEE SHEET 766
4004 SEE SHEET 767
4007 SEE SHEET 717
4104 SEE SHEET 716
4029 SEE SHEET 715
4028 SEE SHEET 714
4027 SEE SHEET 713
4054 SEE SHEET 762
4242 SEE SHEET 760
4053 SEE SHEET 761
4052 SEE SHEET 709
3196 SEE SHEET 712
4026 SEE SHEET 710
4162 SEE SHEET 758

LEGEND

Proposed Network Connection
- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable
- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching
- (P) Crossover Patch at Intersection
- (P) Patch at Intersection
- (P) Existing Crossover Patch at Intersection
- (P) Existing Patch at Intersection

NOT TO SCALE

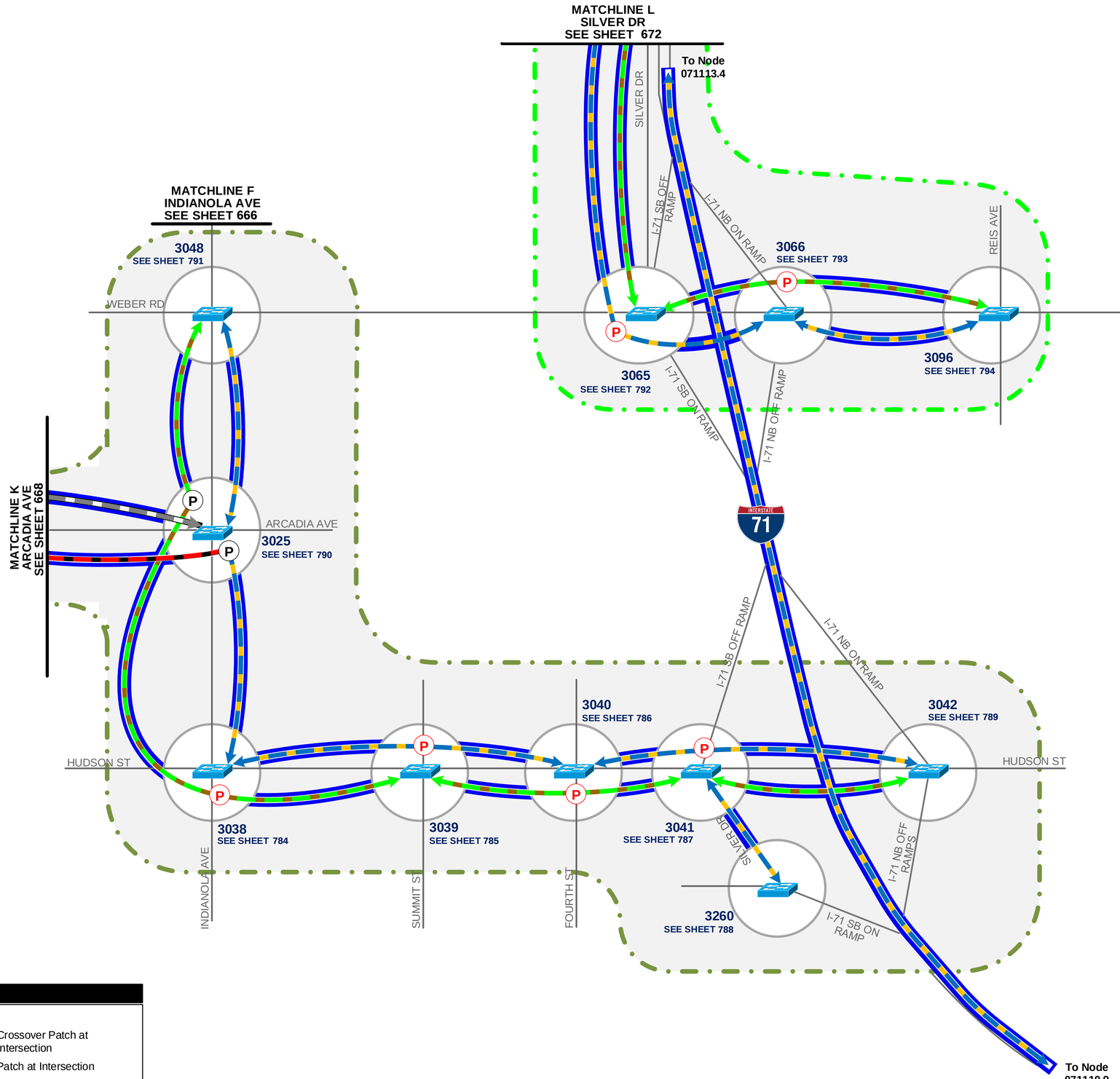
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PID NUMBER: 82573

ACKERMAN RD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

668
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LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

Fiber Optic Cable

Layer 2 Ethernet Switch

Patching

- Crossover Patch at Intersection
- Patch at Intersection
- Existing Crossover Patch at Intersection
- Existing Patch at Intersection

NOT TO SCALE

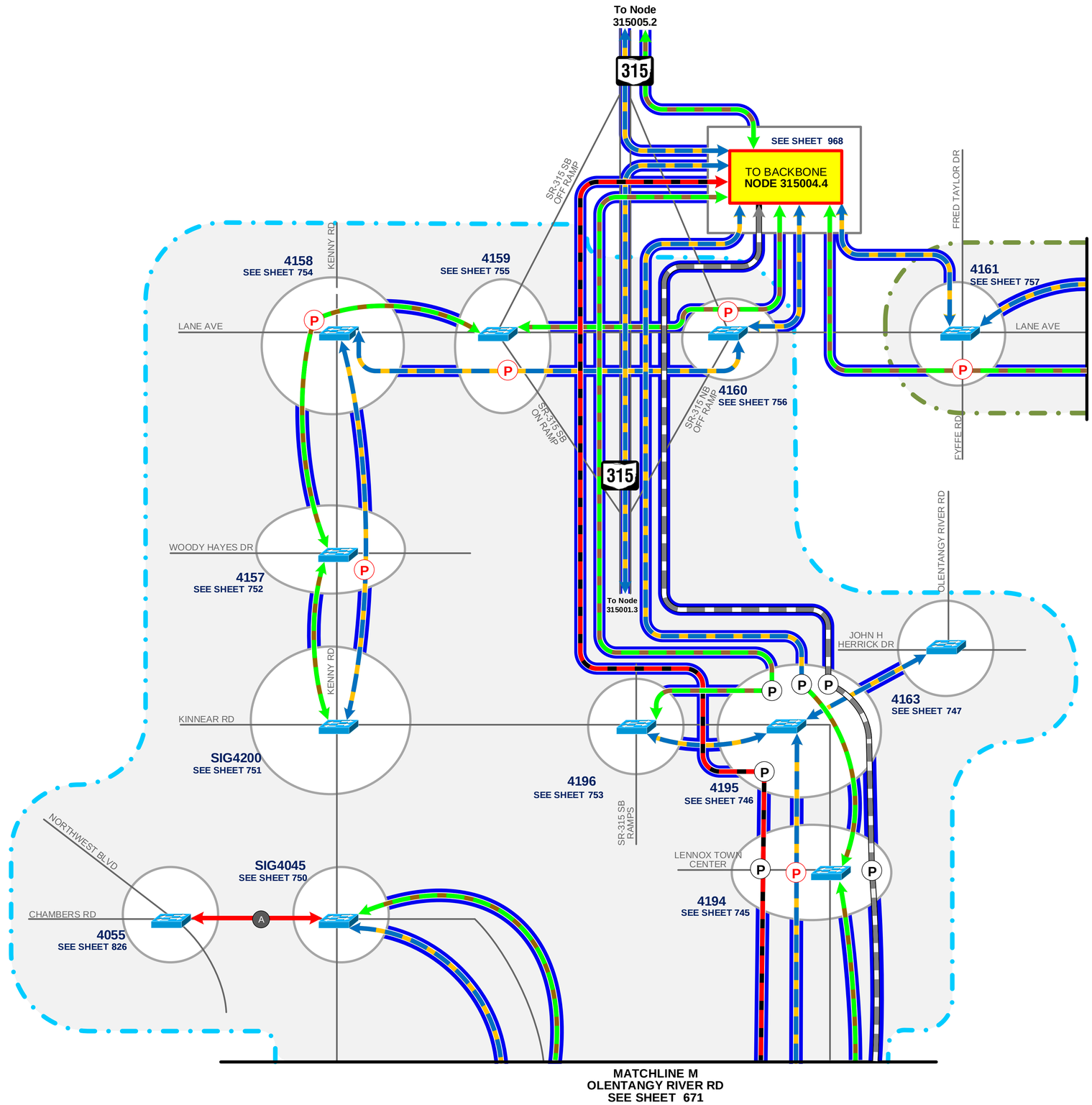
DR-E: 3160-E
PID NUMBER: 82573

HUDSON ST AND WEBER RD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

669
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LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

Fiber Optic Cable

Layer 2 Ethernet Switch

Patching

P — Crossover Patch at Intersection

P — Patch at Intersection

P — Existing Crossover Patch at Intersection

P — Existing Patch at Intersection

NOT TO SCALE

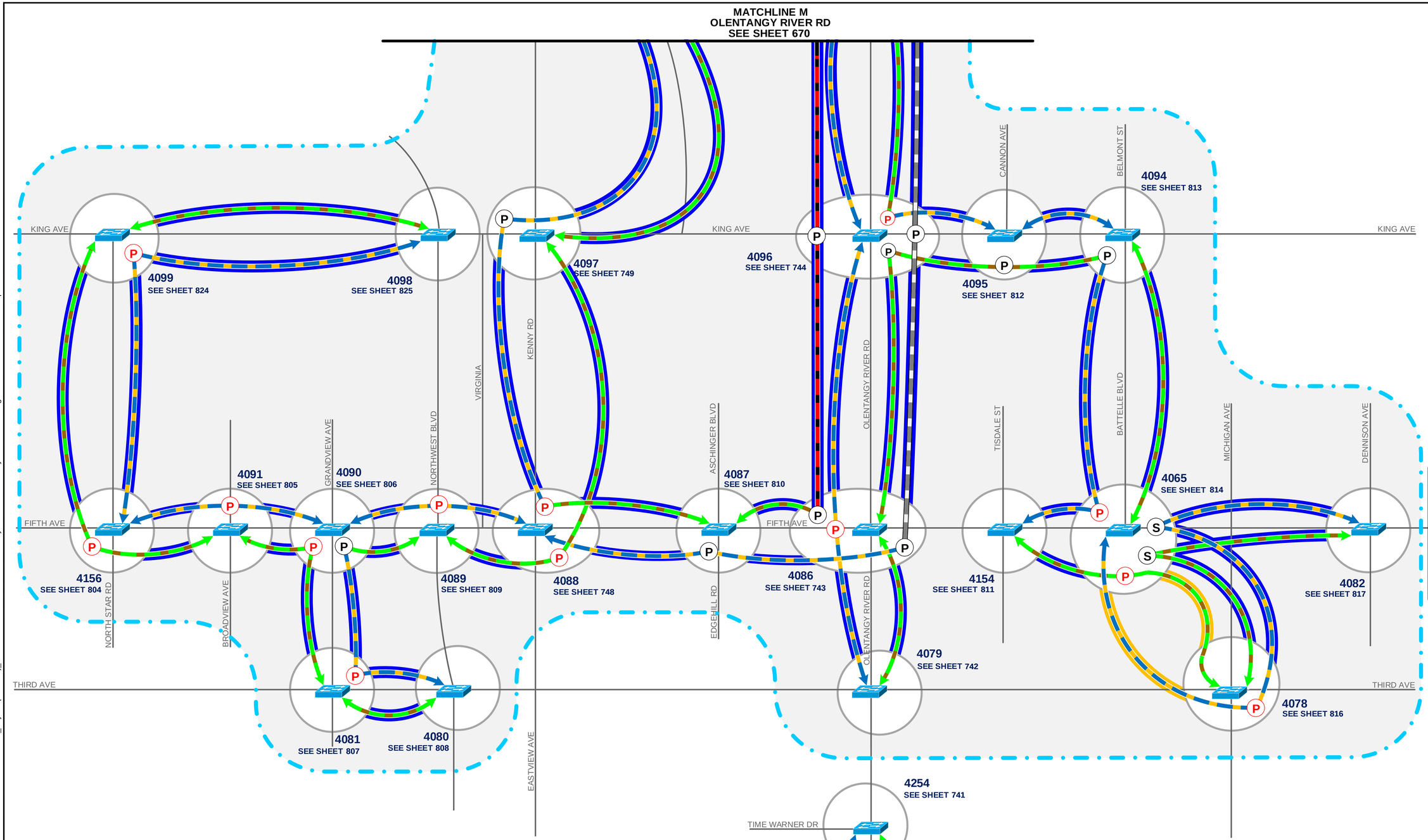
DR-E: 3160-E
PID NUMBER: 82573

LANE AVE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

670
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NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

FIFTH AVE AND KING AVE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

671
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LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

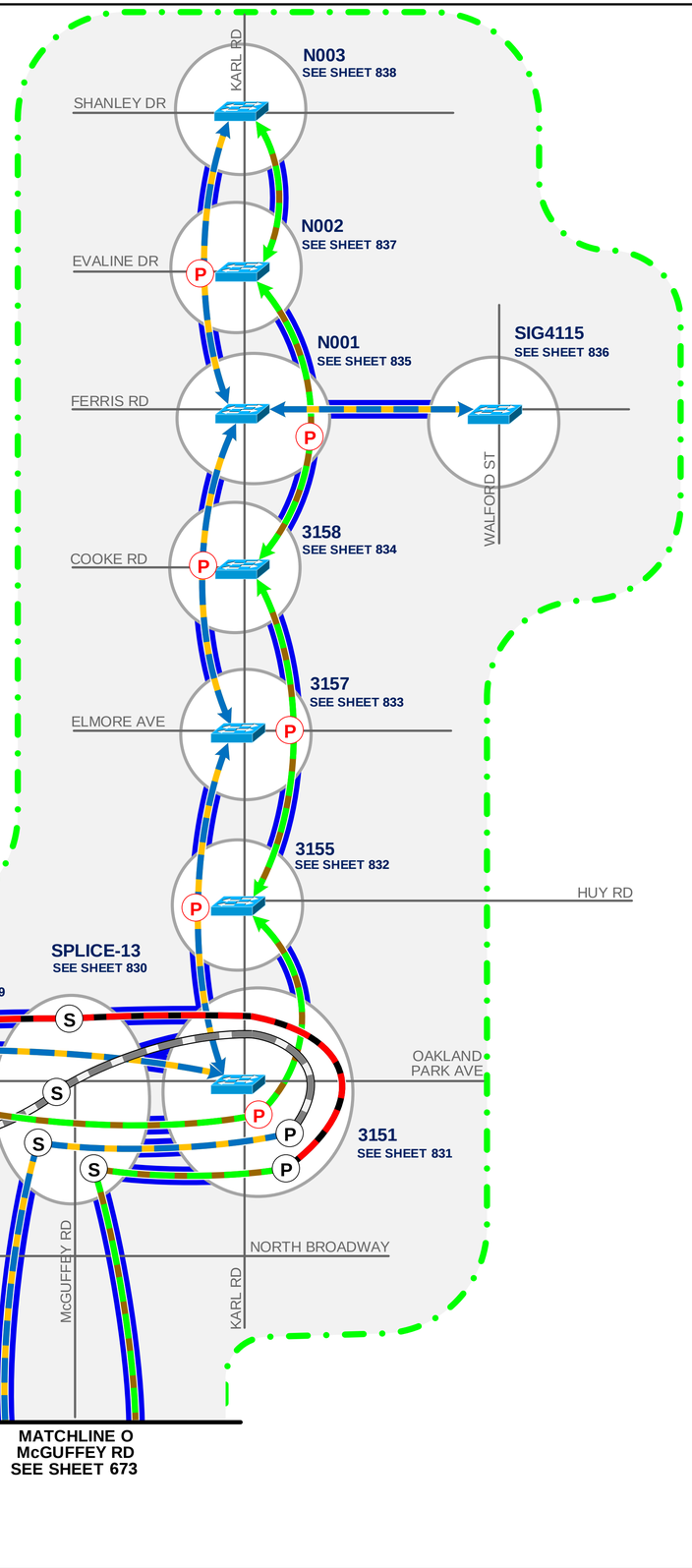
Proposed Fiber Optic Cable

144 Strand Cable

Layer 2 Ethernet Switch

Patching

- Crossover Patch at Intersection
- Patch at Intersection
- Existing Crossover Patch at Intersection
- Existing Patch at Intersection



NOT TO SCALE

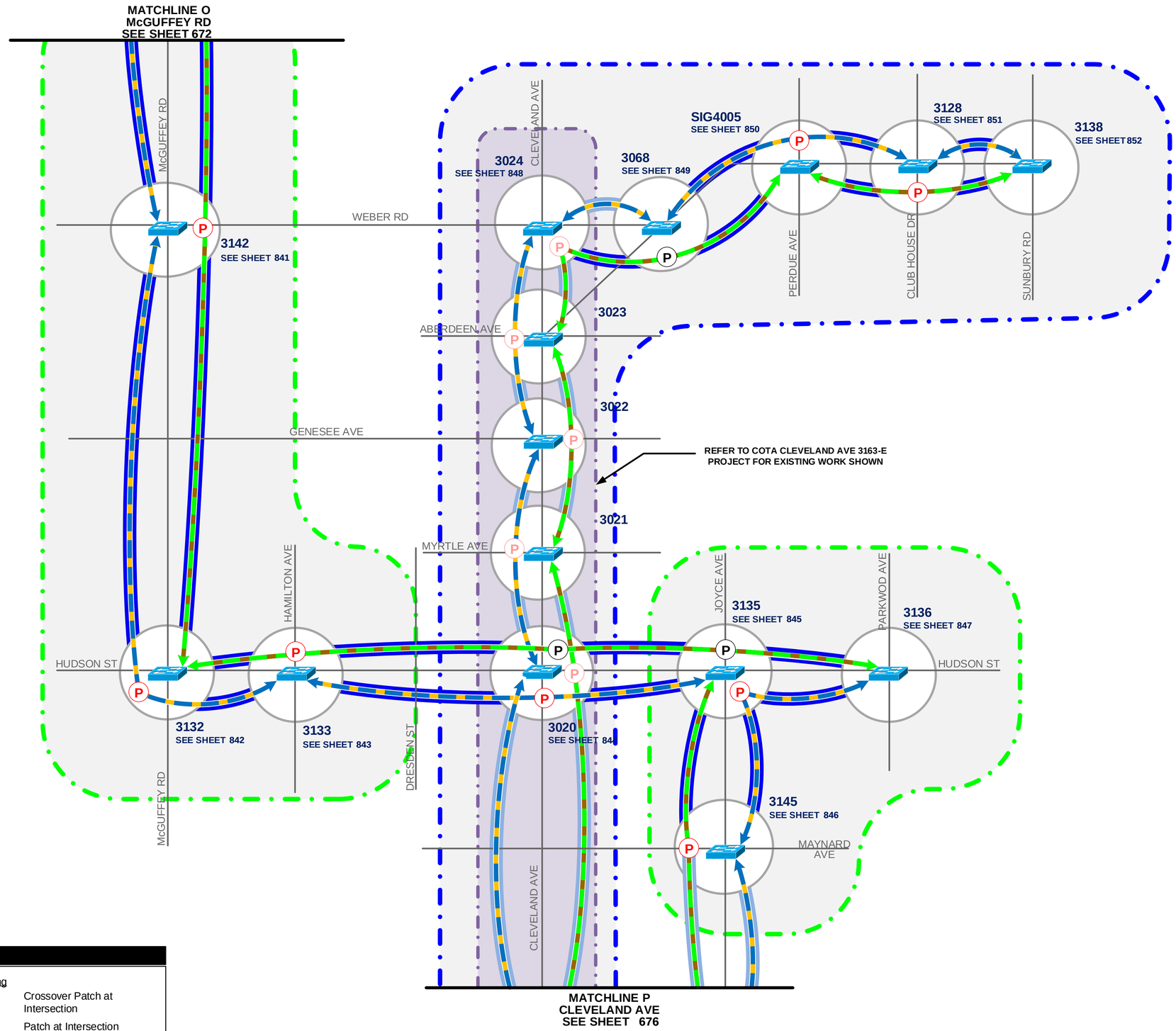
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PID NUMBER: 82573

KARL RD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

672
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LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching

- (P) Crossover Patch at Intersection
- (P) Patch at Intersection
- (P) Existing Crossover Patch at Intersection
- (P) Existing Patch at Intersection

NOT TO SCALE

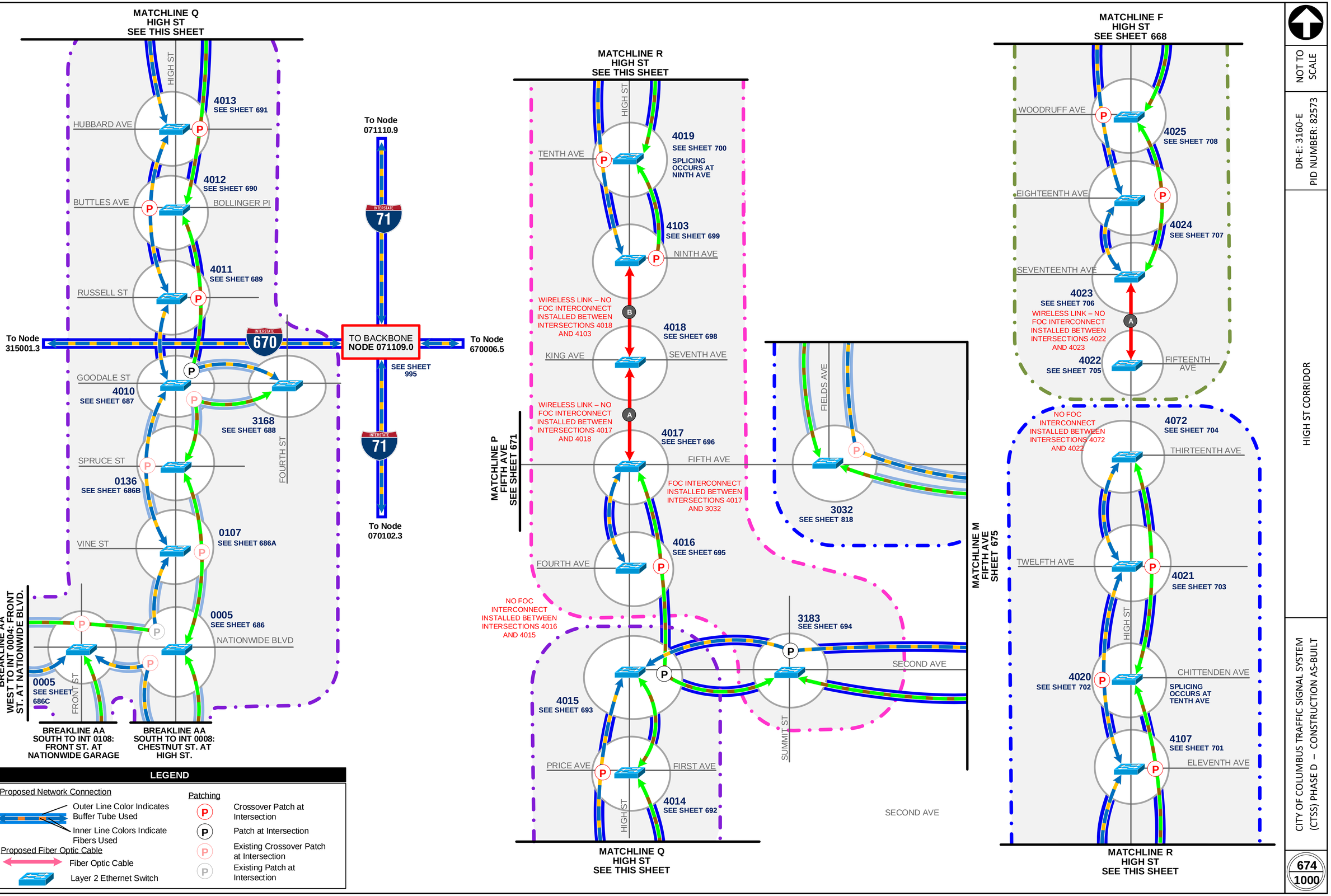
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PID NUMBER: 82573

CLEVELAND AVE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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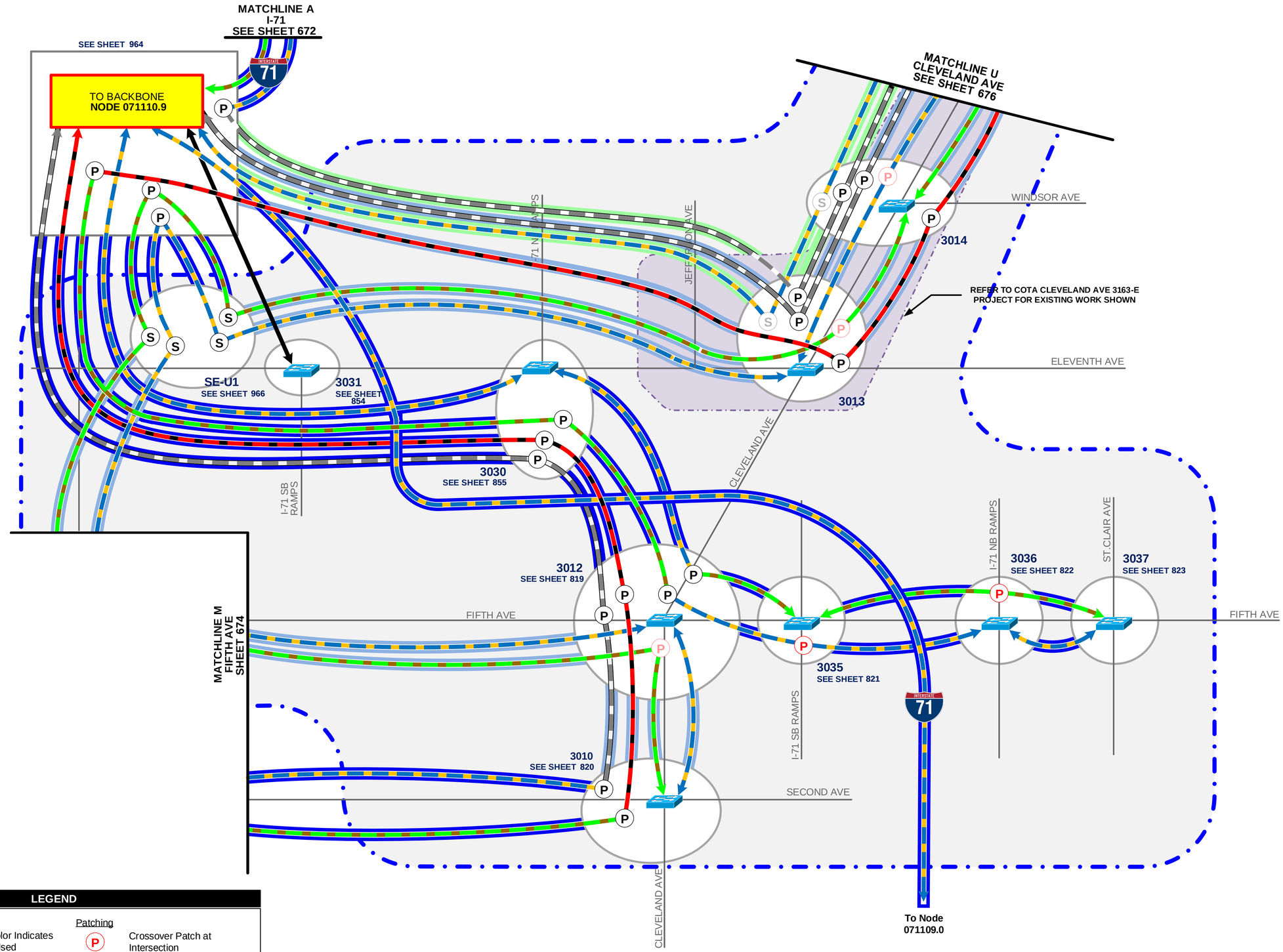
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NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

HIGH ST CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT



LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching

- (P) Crossover Patch at Intersection
- (P) Patch at Intersection
- (P) Existing Crossover Patch at Intersection
- (P) Existing Patch at Intersection

NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

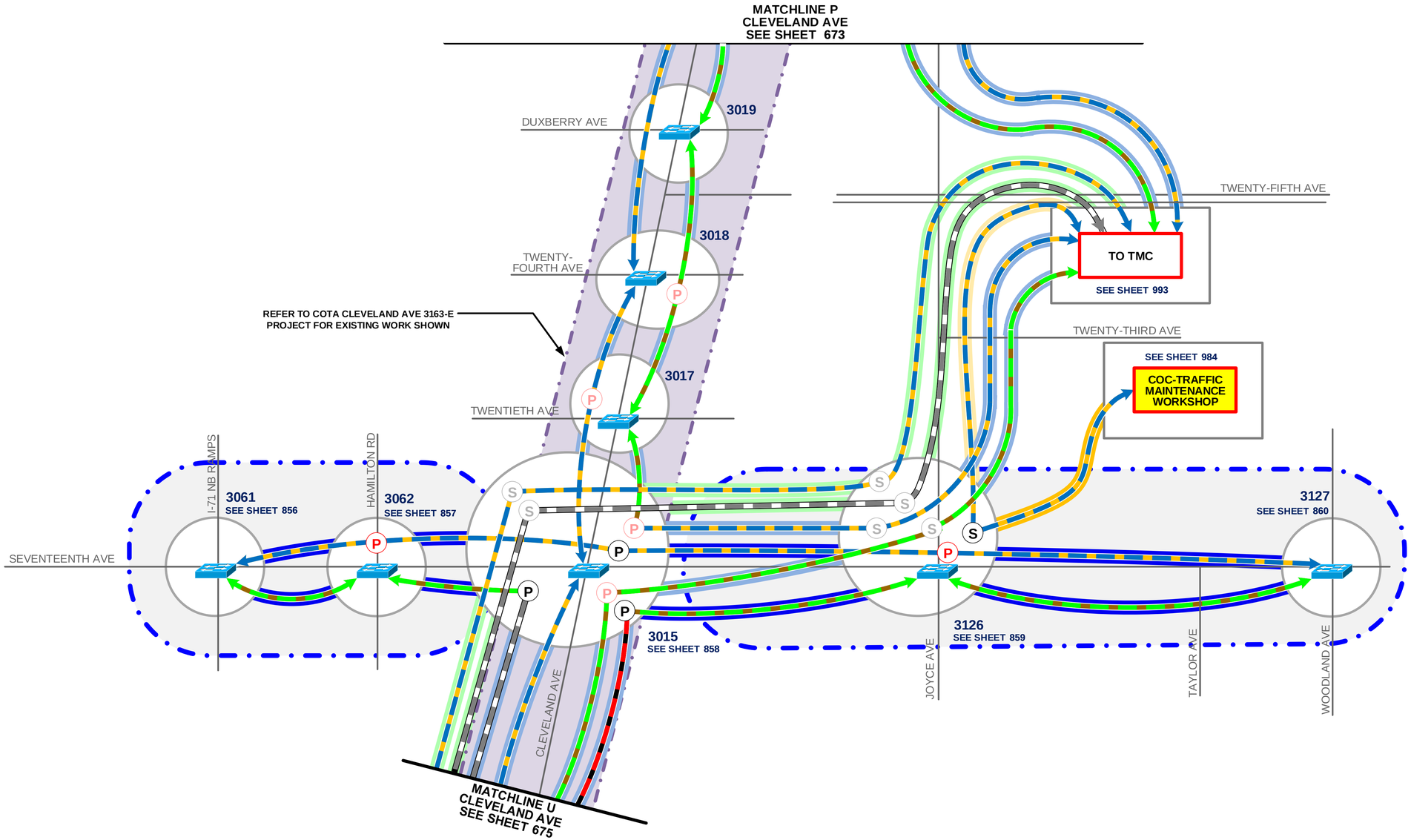
CLEVELAND AVE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

675
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LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching

- (P) Crossover Patch at Intersection
- (P) Patch at Intersection
- (P) Existing Crossover Patch at Intersection
- (P) Existing Patch at Intersection

NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

CLEVELAND AVE CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

676
1000

To Node 071110.9

SEE SHEET 995

To Node 315001.3

To INT# 0001

To INT# 0042

TO BACKBONE NODE 071109.0

To Node 670006.5

0116
SEE SHEET872

0117
SEE SHEET 872

SPRING ST

E SPRING ST

SPLICE-LESTER AT I-71

BREAKLINE WEST TO INT 0118: LESTER DR. AT LONG ST.

ELIJAH PIERCE

HAMILTON AVE

SEVENTEENTH ST

OHIO AVE

LONG ST

0119
SEE SHEET 872

3052
SEE SHEET 862

3053
SEE SHEET 863

MATCHLINE W LONG ST SEE SHEET 678

BROAD ST

BROAD ST

BROAD ST

3001
SEE SHEET 871

SEVENTEENTH ST

TWENTIETH ST

3003
SEE SHEET 873

To Node 070102.3

LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

Fiber Optic Cable

Layer 2 Ethernet Switch

Patching

P — Crossover Patch at Intersection

P — Patch at Intersection

P — Existing Crossover Patch at Intersection

P — Existing Patch at Intersection

NOT TO SCALE

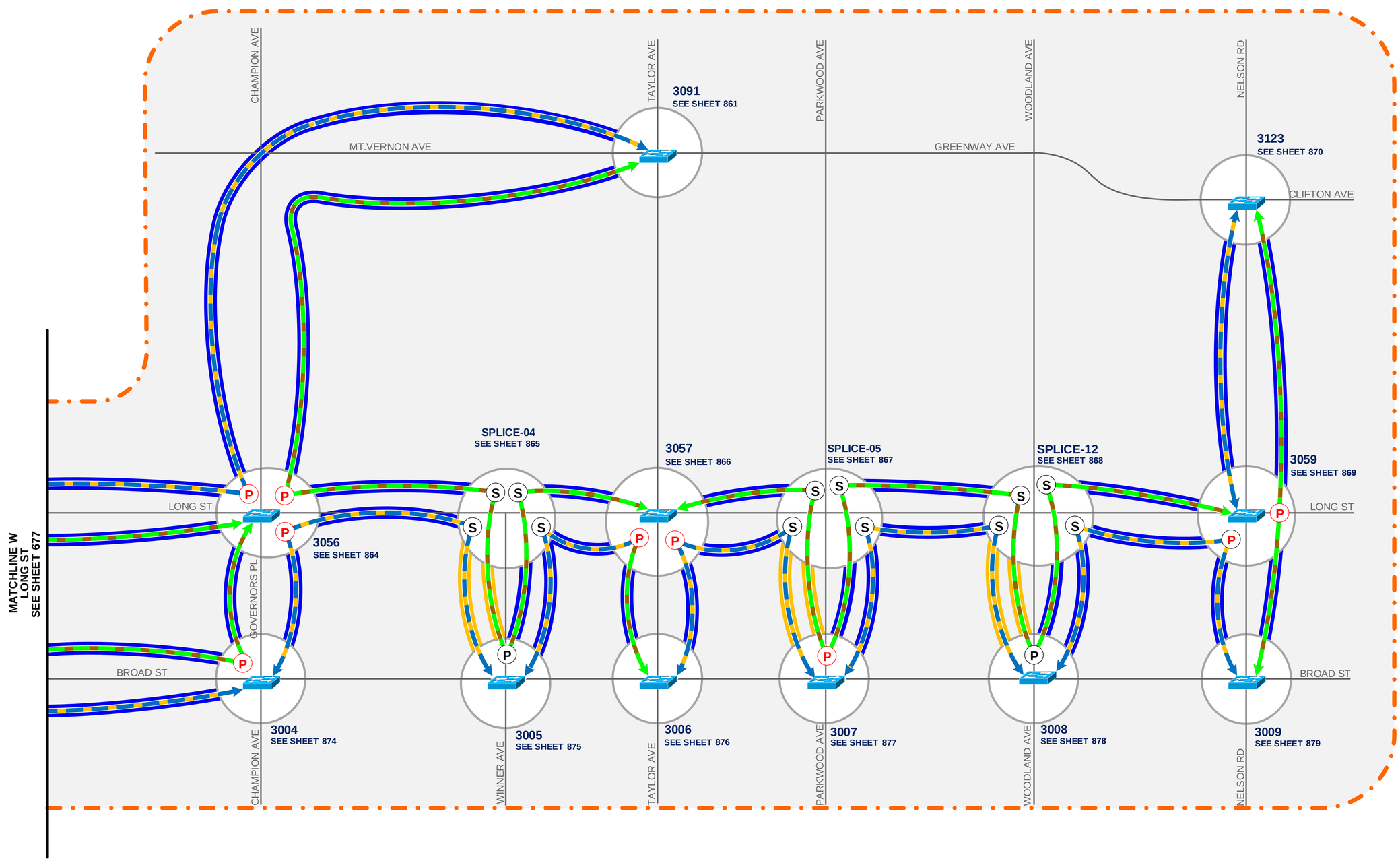
DR-E: 3160-E
PID NUMBER: 82573

LONG ST CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

677
1000

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LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

Fiber Optic Cable

Layer 2 Ethernet Switch

Patching

P — Crossover Patch at Intersection

P — Patch at Intersection

P — Existing Crossover Patch at Intersection

P — Existing Patch at Intersection

NOT TO SCALE

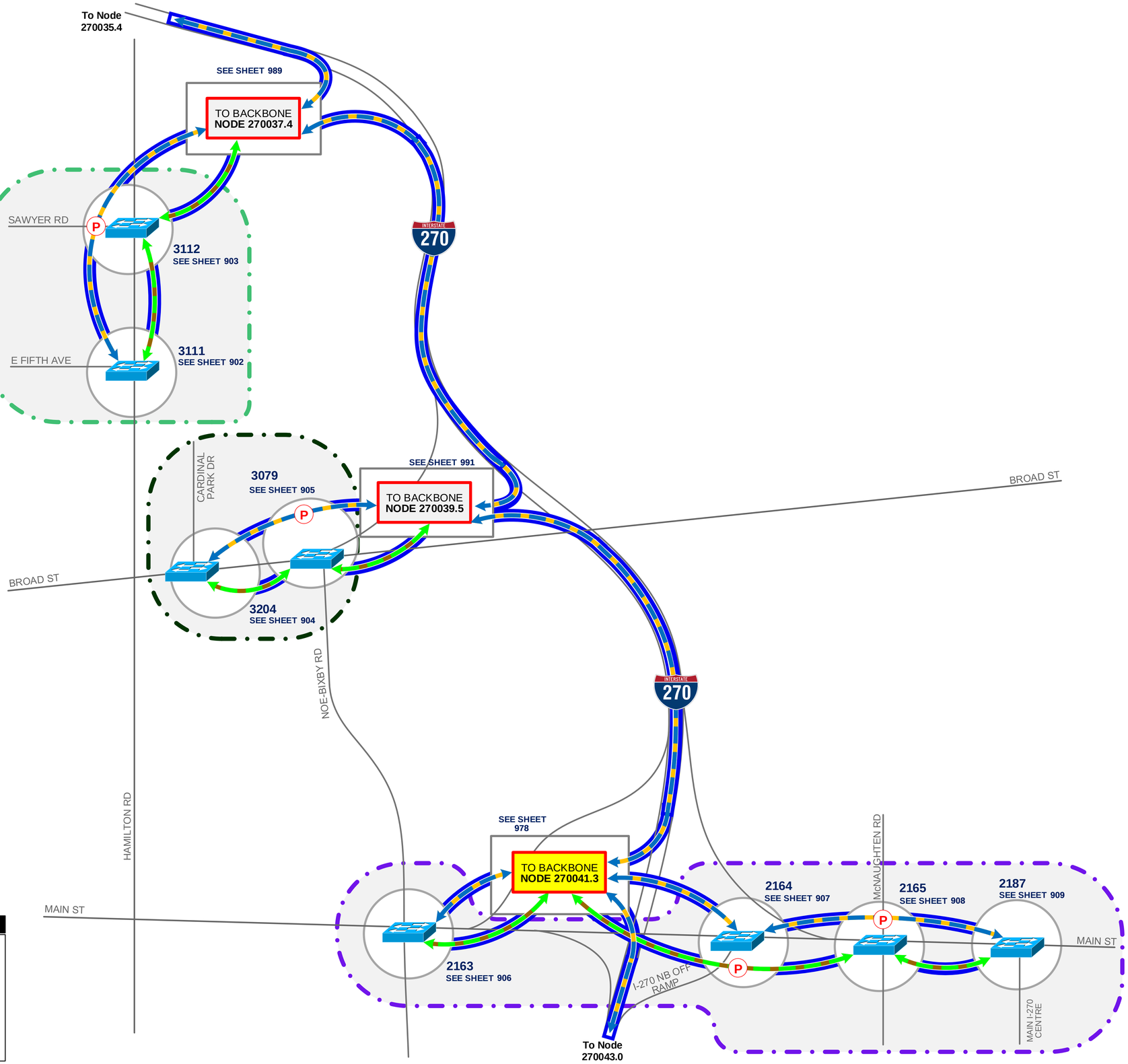
DR-E: 3160-E
PID NUMBER: 82573

LONG ST CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching

- (P) Crossover Patch at Intersection
- (P) Patch at Intersection
- (P) Existing Crossover Patch at Intersection
- (P) Existing Patch at Intersection

NOT TO SCALE

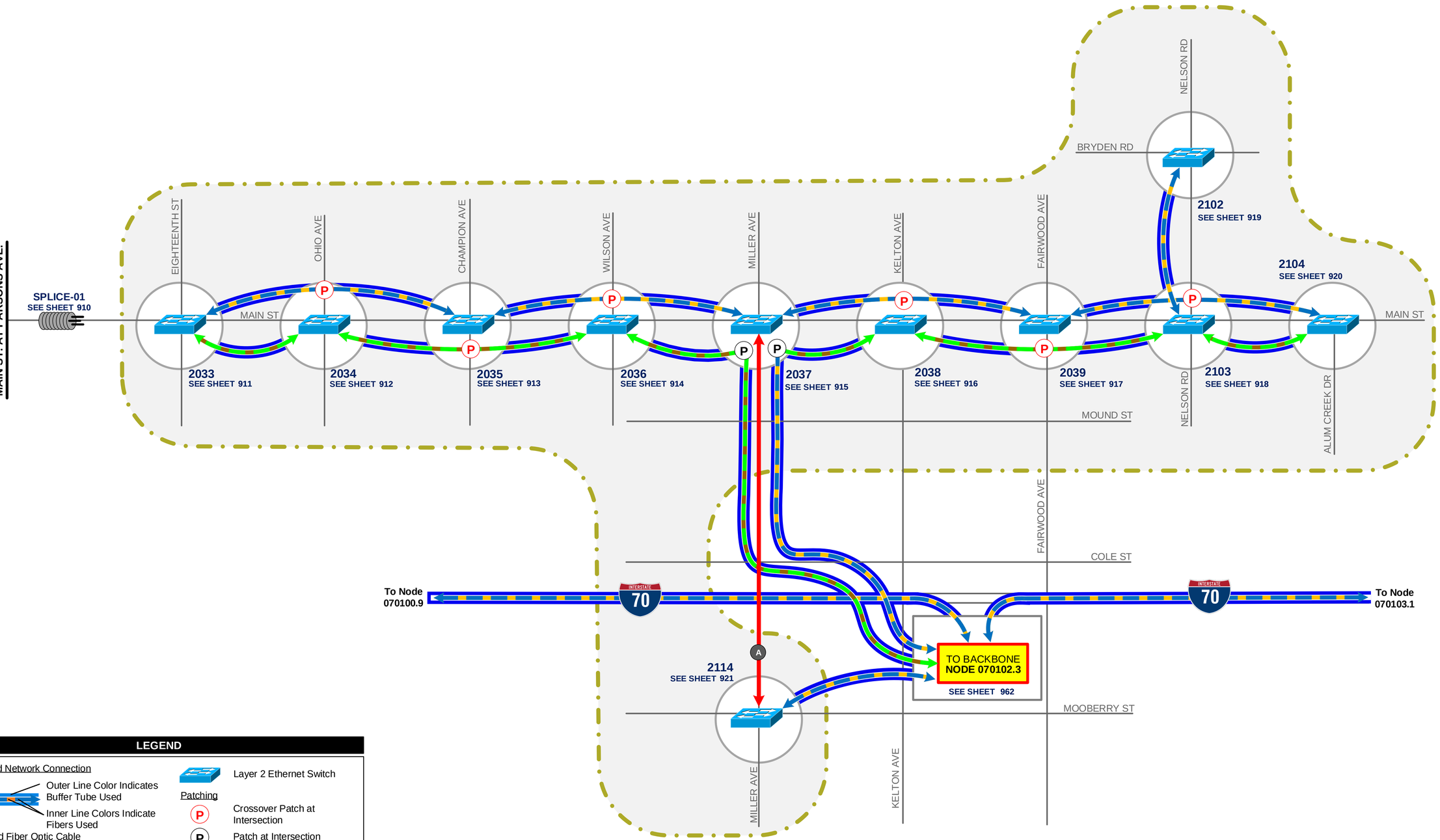
DR-E: 3160-E
PID NUMBER: 82573

BROAD ST CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

679
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LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

144 Strand Cable

Primary Wireless Link

A — 10MHz Channel Center Frequency 4965MHz

Layer 2 Ethernet Switch

Patching

P — Crossover Patch at Intersection

P — Patch at Intersection

P — Existing Crossover Patch at Intersection

P — Existing Patch at Intersection

NOT TO SCALE

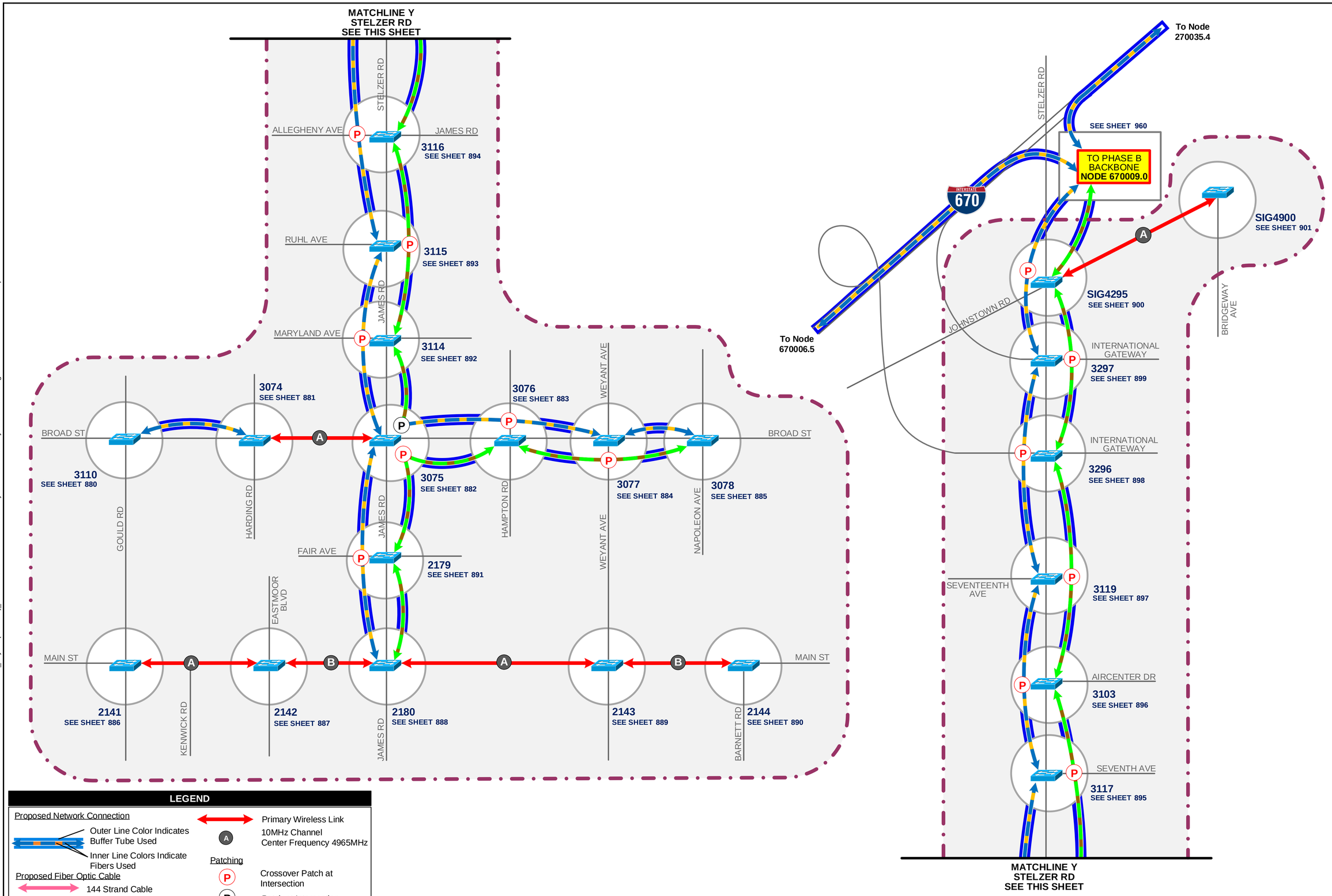
DR-E: 3160-E
PID NUMBER: 82573

MAIN ST CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

680
1000

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LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

144 Strand Cable

Layer 2 Ethernet Switch

Primary Wireless Link

A — 10MHz Channel Center Frequency 4965MHz

Patching

P — Crossover Patch at Intersection

P — Patch at Intersection

NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

STELZER RD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

681
1000

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J:\Jobs\60135\TECHPROD\Communications\CTSS Phase D Communications_Layer 2(A and B)_Subnets.vsd - WINCHESTER PKE- I-270 SOUTH NODES layout ~ last saved by: Sai Geetha Koganti 4/1/2020 2:11:41 PM ~ printed: 4/1/2020 2:11:41 PM

GREENLAWN AVE

INTERSTATE 71

INTERSTATE 71

HIGH ST

23

To Node 270004.5

INTERSTATE 270

SEE SHEET 975

TO BACKBONE NODE 270002.1

TO BACKBONE NODE 270055.0

SEE SHEET 983

SEE SHEET 982

TO BACKBONE NODE 270052.7

INTERSTATE 270

SPLICE-10
SEE SHEET 959

S

SEE SHEET 980

TO BACKBONE NODE 270046.1

INTERSTATE 270

To Node 270043.0

SEE SHEET 986

TO BACKBONE NODE 270045.5

WINCHESTER PIKE

ASKINS RD

SIG4910
SEE SHEET 922

P

33

SPLICE-08
SEE SHEET 923

S

HAMILTON RD

2194
SEE SHEET 924

NOE-BIXBY RD

2199
SEE SHEET 926

EBRIGHT RD

SIG4920
SEE SHEET 927

BRICE RD

SIG4940
SEE SHEET 928

SPLICE-11
SEE SHEET 929

HENDRON RD

HAMILTON RD

NO NETWORK CONNECTION

SEE SHEET 930

FRANKLIN COUNTY ENGINEER'S OFFICE OUTPOST
4801 HENDRON RD.

SPLICE-07
SEE SHEET 931

MARLOWA DR

LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

Fiber Optic Cable

Layer 2 Ethernet Switch

Patching

P Crossover Patch at Intersection

P Patch at Intersection

P Existing Crossover Patch at Intersection

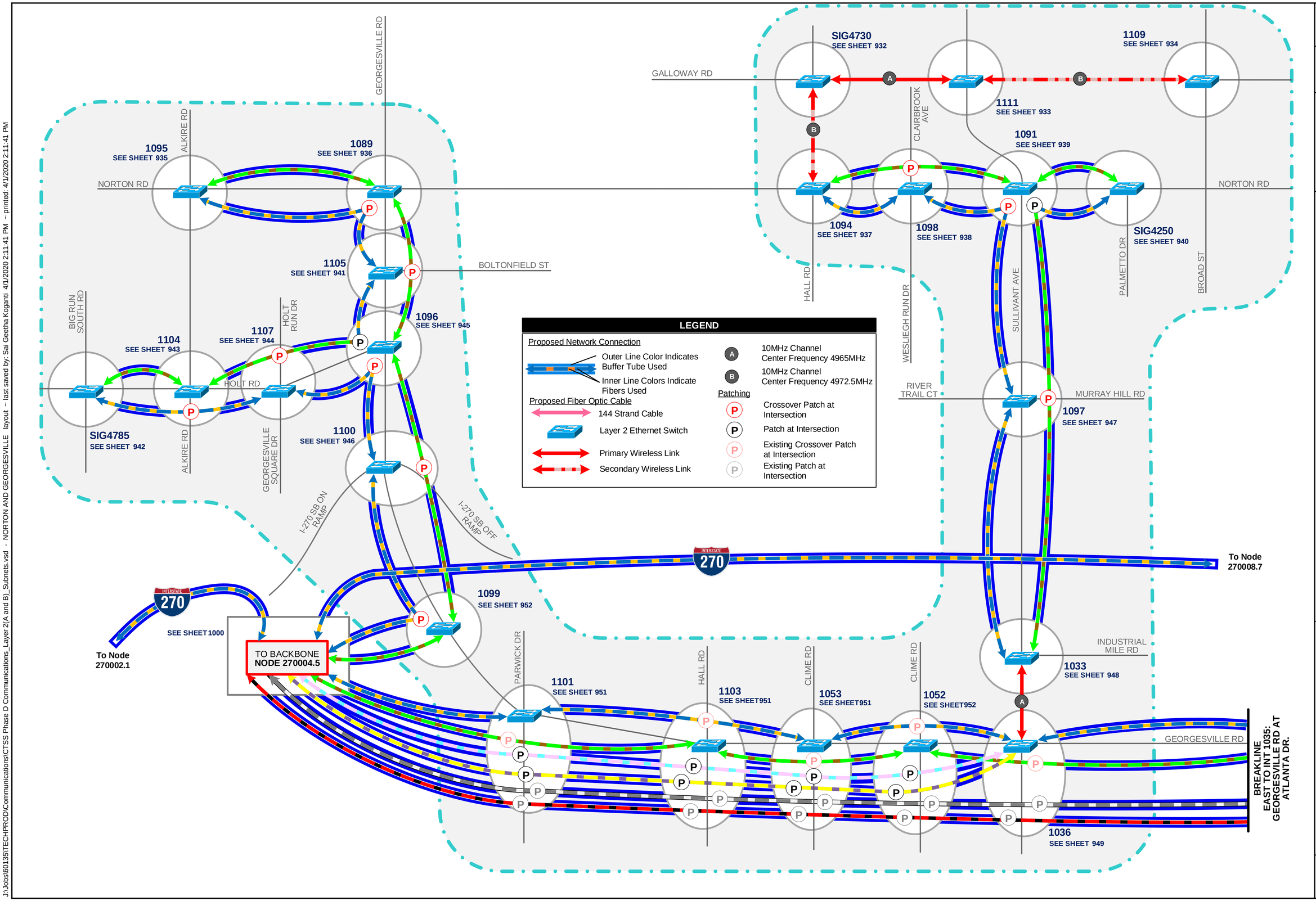
P Existing Patch at Intersection

NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

WINCHESTER PIKE AND IR-270 SOUTH NODES CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT



J:\Jobs\60135\TECHPROD\Communications\CTSS Phase D Communications_Layer 2(A and B)_Subnets.vsd - NORTON AND GEORGESVILLE layout ~ last saved by: Sai Geetha Koganti 4/1/2020 2:11:41 PM ~ printed: 4/1/2020 2:11:41 PM

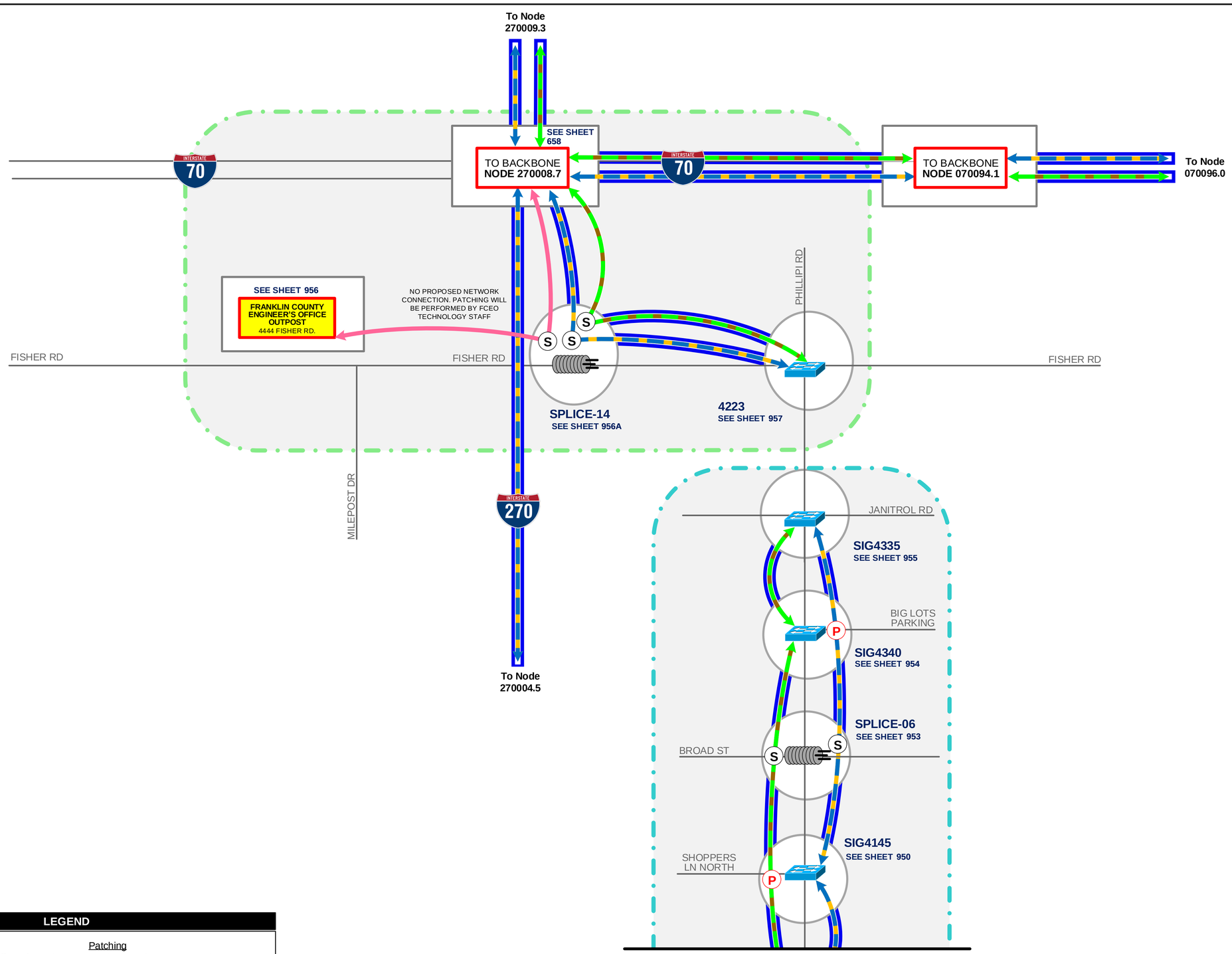
NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

NORTON RD AND GEORGESVILLE RD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

683
1000



BREAKLINE EAST TO INT SIG4146: GEORGESVILLE RD AT SHOPPERS LN S.

LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch

Patching

- (P) Crossover Patch at Intersection
- (P) Patch at Intersection
- (P) Existing Crossover Patch at Intersection
- (P) Existing Patch at Intersection

NOT TO SCALE

DR-E: 3160-E
PID NUMBER: 82573

PHILLIPI RD CORRIDOR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

684
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J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\7344-746.vsd - N031 layout ~ last saved by: skoganti 3/31/2020 4:44:24 PM ~ printed: 3/31/2020 5:06:22 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 6 7 8 LH T R)

1

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3

Ethernet Module
10/100 Mbs

NEW ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# N033: BEECHCROFT RD. AT DUBLIN GRANVILLE RD.

PORT 6: EXISTING CONNECTION TO INT# N029: DUBLIN GRANVILLE RD. AT I-71 NB RAMPS

PORT 7: EXISTING COMMUNICATION NODE# 071116.2: I-71 AT MORSE RD.
(Remove) SEE SHEET 999

EXISTING CCTV SITE- SR-161 AT KARL RD

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

COMPOSITE CCTV CABLE

EXISTING CCTV

EXISTING CCTV CABINET

BLUE TUBE (EAST)
ORANGE TUBE (SOUTH)
BLUE TUBE (WEST)
ORANGE TUBE (SPARE)

EXISTING 24 STRAND DROP
EXISTING 24 STRAND DROP

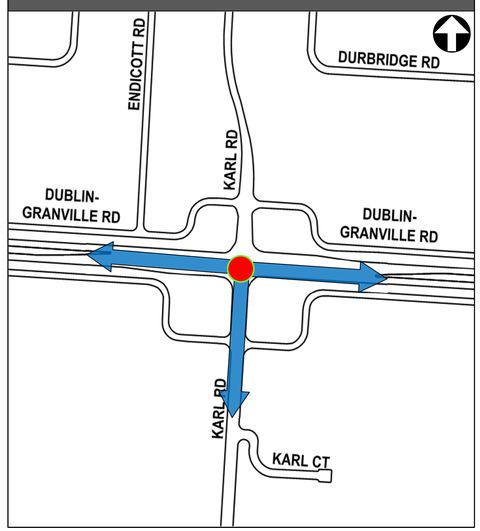
EXISTING PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

TO:
EXISTING SPLICE ENCLOSURE
AT INT# N031: DUBLIN
GRANVILLE RD. AT KARL RD.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

[1] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH.

INTERSECTION N031

CIP: 540007 - 100006
PID NUMBER: 82573

INT#: N031: DUBLIN GRANVILLE RD. AT KARL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 0136: HIGH ST. AT SPRUCE ST.

PORT 6: EXISTING CONNECTION TO INT# 0015: HIGH ST. AT SPRING ST.

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3
Ethernet Module 10/100 Mb/s

EXISTING PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

- ***BLUE TUBE (NORTH)***
- ***ORANGE TUBE (SOUTH)***
- ***BLUE TUBE (WEST)***
- ***ORANGE TUBE (SPARE)***

EXISTING 24 STRAND DROP

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 0107: N HIGH ST. AT VINE ST.

EXISTING SPLICE ENCLOSURE

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 144 STRAND FOC

TO:
INT# 0004: FRONT ST. AT NATIONWIDE BLVD.

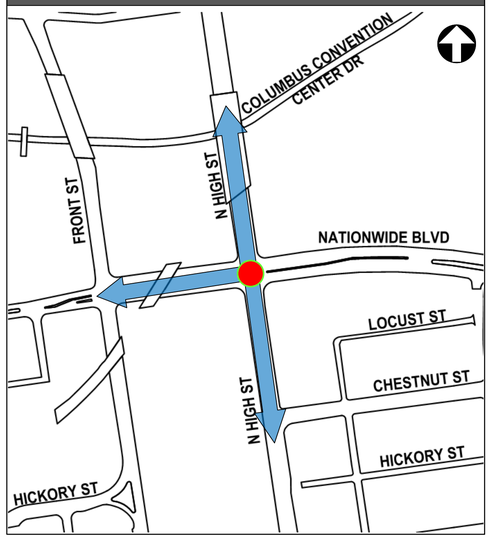
EXISTING 144 STRAND FOC

TO:
INT# 0008: CHESTNUT ST. AT HIGH ST.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

NO PROPOSED WORK IS PERFORMED ON THIS SHEET. FOR EXISTING WORK SHOWN REFER TO CTSS PHASE B PROJECT 2762-E

INTERSECTION 0005

REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

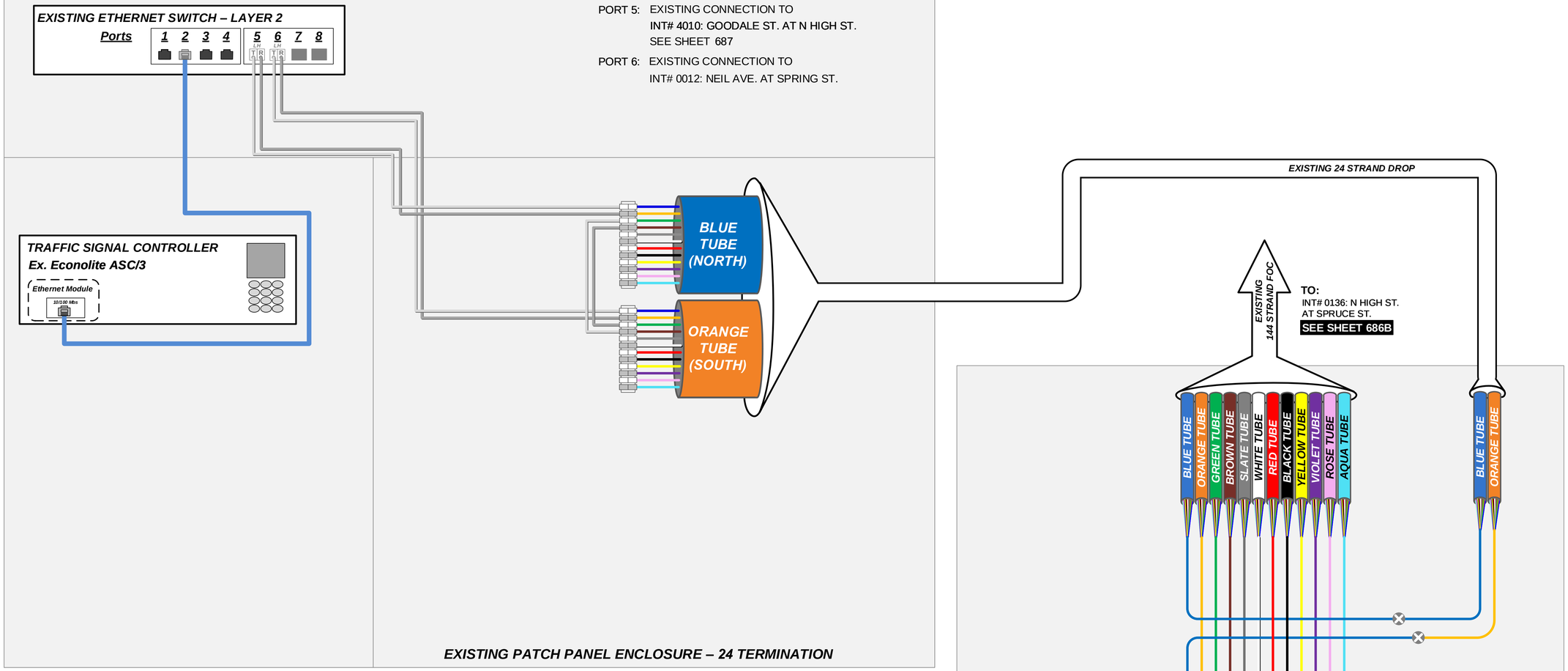
INT# 0005: N HIGH ST. AT NATIONWIDE BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

686
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO
INT# 4010: GOODALE ST. AT N HIGH ST.
SEE SHEET 687

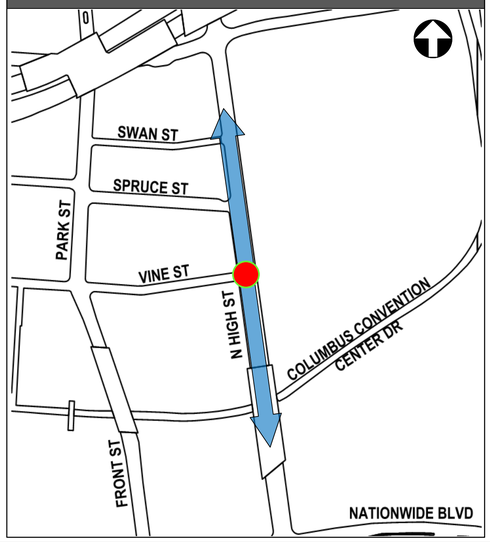
PORT 6: EXISTING CONNECTION TO
INT# 0012: NEIL AVE. AT SPRING ST.

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

NO PROPOSED WORK IS PERFORMED ON THIS SHEET. FOR EXISTING WORK SHOWN REFER TO CTSS PHASE B PROJECT 2762-E

INTERSECTION 0107

REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

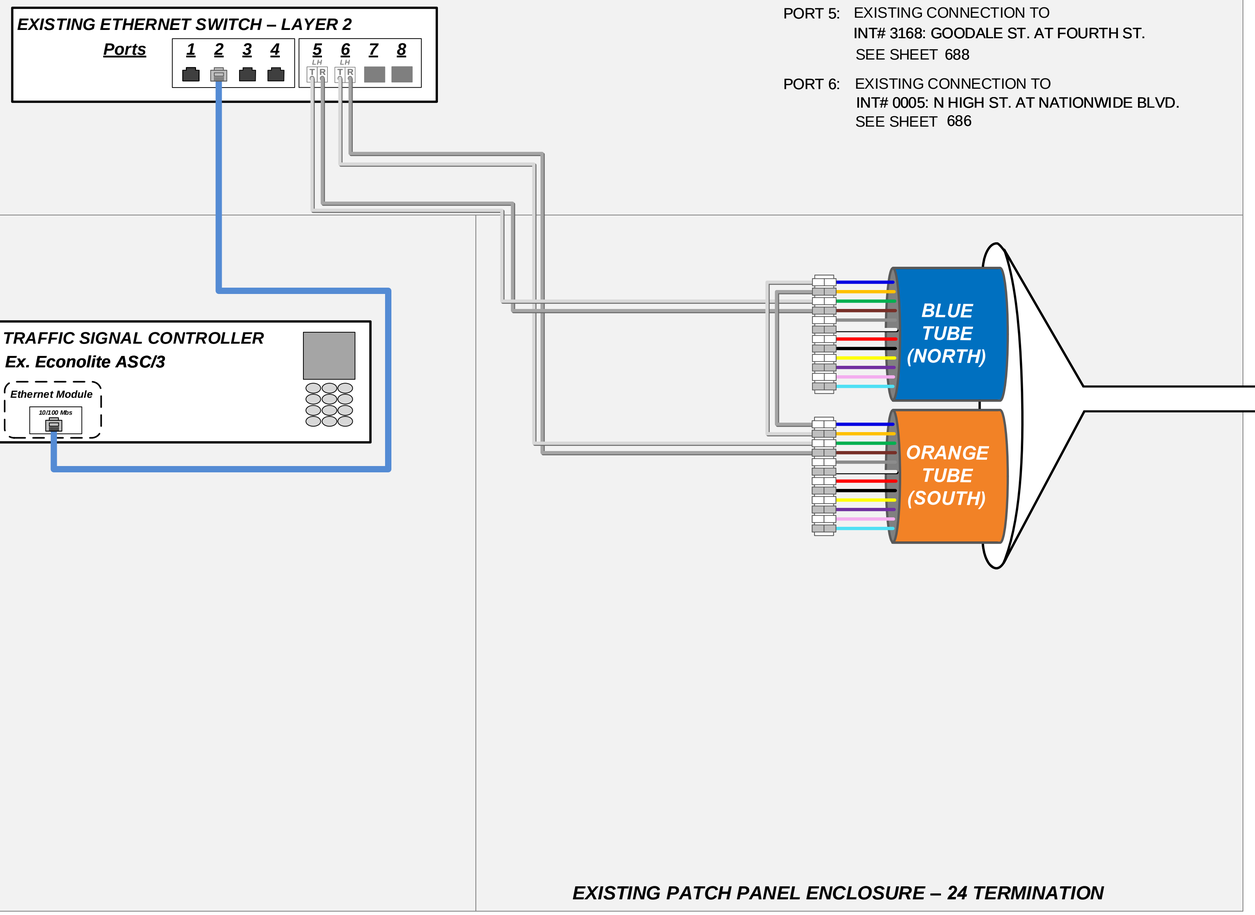
INT# 0107: N HIGH ST. AT VINE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

686A
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

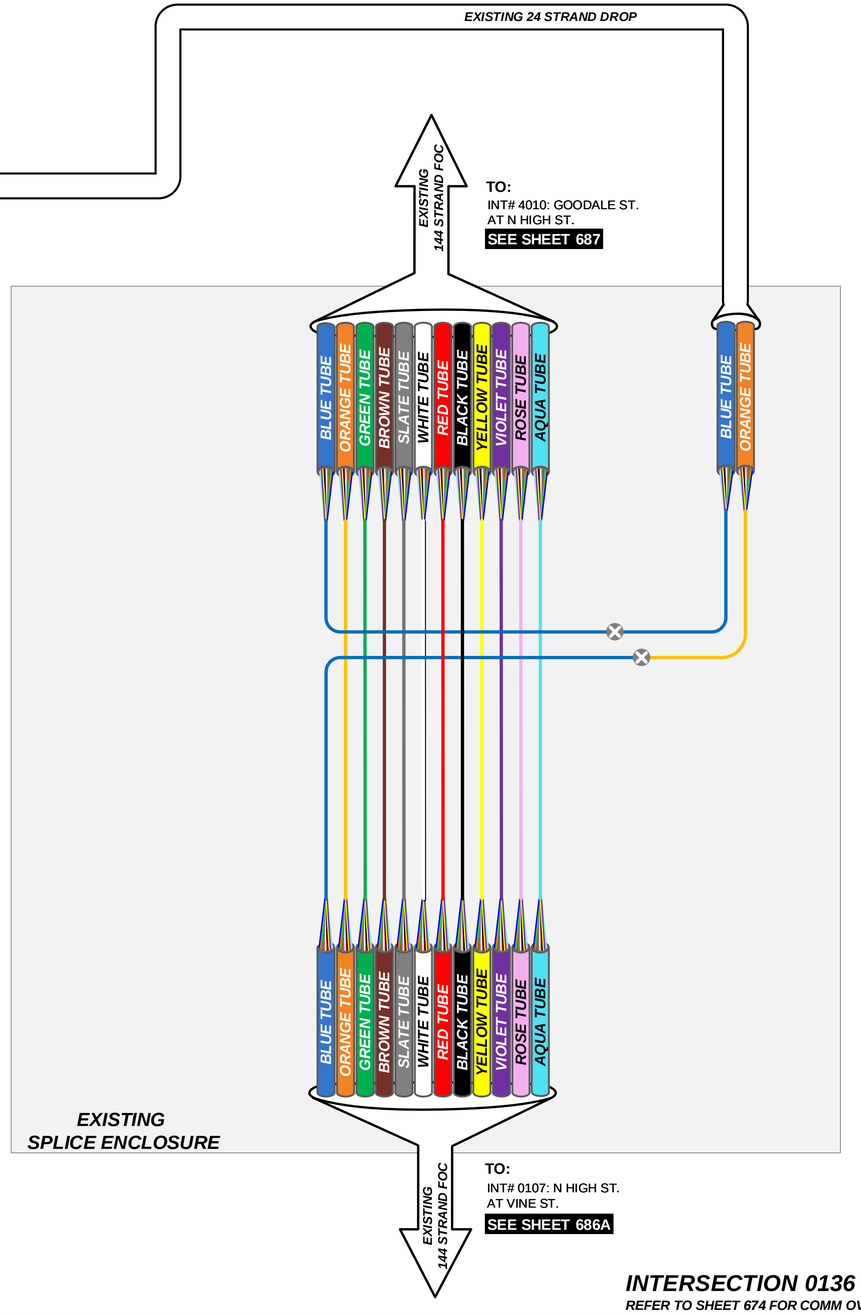


ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO
INT# 3168: GOODALE ST. AT FOURTH ST.
SEE SHEET 688

PORT 6: EXISTING CONNECTION TO
INT# 0005: N HIGH ST. AT NATIONWIDE BLVD.
SEE SHEET 686

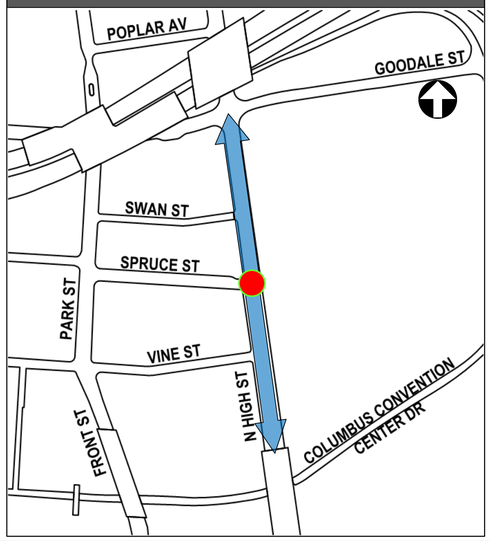
EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

NO PROPOSED WORK IS PERFORMED ON THIS SHEET. FOR EXISTING WORK SHOWN REFER TO CTSS PHASE B PROJECT 2762-E

INTERSECTION 0136

REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 0136: N HIGH ST. AT SPRUCE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

686B
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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5–7: LH T/R)

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER

Ex. Econolite ASC/2S-2100

AUX1

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 0108: FRONT ST. AT NATIONWIDE GARAGE

PORT 6: EXISTING CONNECTION TO COMMUNICATION NODE# 315001.3: DUBLIN RD./US-33 AT SR-315

PORT 7: INT# 0008:CHESTNUT ST. AT HIGH ST.

EXISTING CCTV SITE FRONT ST. AT NATIONWIDE BLVD.

CCTV FIELD BOX

8P8C MALE/ FEMALE CONNECTION

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

COMPOSITE CCTV CABLE

EXISTING CCTV

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

EXISTING PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

EXISTING 24 STRAND DROP

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO: INT# 0106: FRONT ST./ PARK ST. AT VINE 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

BLUE TUBE, ORANGE TUBE

BLUE TUBE, ORANGE TUBE

EXISTING 144 STRAND FOC

TO: INT# 0099: NATIONWIDE BLVD. AT NEIL AVE.

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 144 STRAND FOC

TO: INT# 0005: HIGH 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

EXISTING SPLICE ENCLOSURE

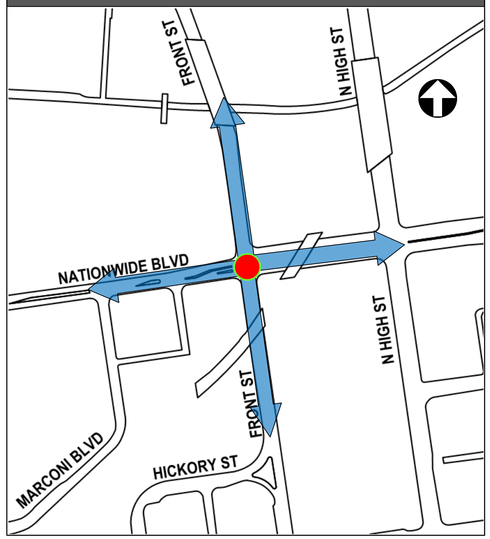
EXISTING 144 STRAND FOC

TO: INT# 0108: FRONT ST. AT NATIONWIDE GARAGE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

FOR EXISTING WORK SHOWN REFER TO CTSS PHASE B PROJECT 2762-E.

INTERSECTION 0004

REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 0004: FRONT ST. AT NATIONWIDE BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

686C
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4011: N HIGH ST. AT RUSSELL ST.
SEE SHEET 689

PORT 6: INT# 0107: N HIGH ST. AT VINE ST.
SEE SHEET 686A

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

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

COMPOSITE CCTV CABLE

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (SPARE)

PROPOSED CCTV

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 4011: N HIGH ST.
AT RUSSELL ST.
SEE SHEET 689

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

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 144 STRAND FOC

TO:
INT# 3168: GOODALE ST. AT FOURTH ST.
SEE SHEET 688

EXISTING 144 STRAND FOC

TO:
INT# 0136: N HIGH ST. AT SPRUCE ST.
SEE SHEET 686B

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

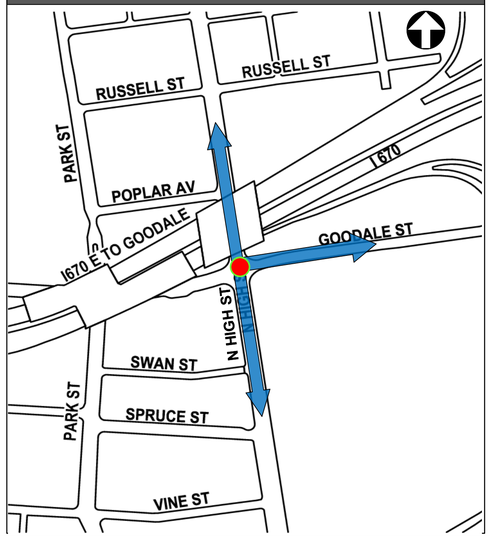
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4010
REFER TO SHEET 386 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4010: GOODALE ST. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

5 6 E/R T R E/R T R

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3

Ethernet Module
10/100 Mb/s

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4012: BOLLINGER PL. / BUTTLES AVE. AT N HIGH ST.
SEE SHEET 690

PORT 6: INT# 0136: N HIGH ST. AT SPRUCE ST.
SEE SHEET 686B

BLUE TUBE (WEST)

ORANGE TUBE (SPARE)

EXISTING 24 STRAND DROP

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE ***ORANGE TUBE***

EXISTING SPLICE ENCLOSURE

EXISTING 144 STRAND FOC

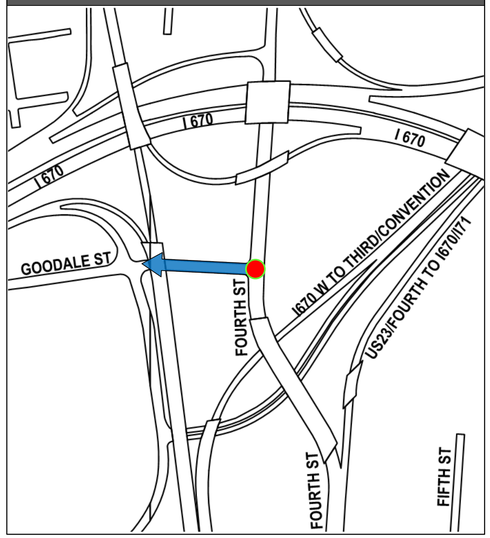
TO:
INT# 4010: GOODALE ST. AT N HIGH ST.
SEE SHEET 687

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

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

FOR EXISTING WORK SHOWN ON THIS SHEET REFER TO CTSS PHASE B PROJECT 2762-E

DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

INTERSECTION 3168
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

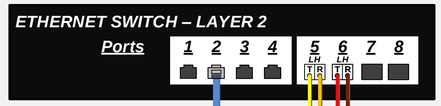
INT# 3168: GOODALE ST. AT FOURTH ST.
COMMUNICATIONS DIAGRAM

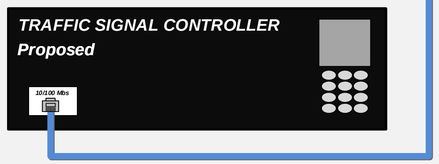
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

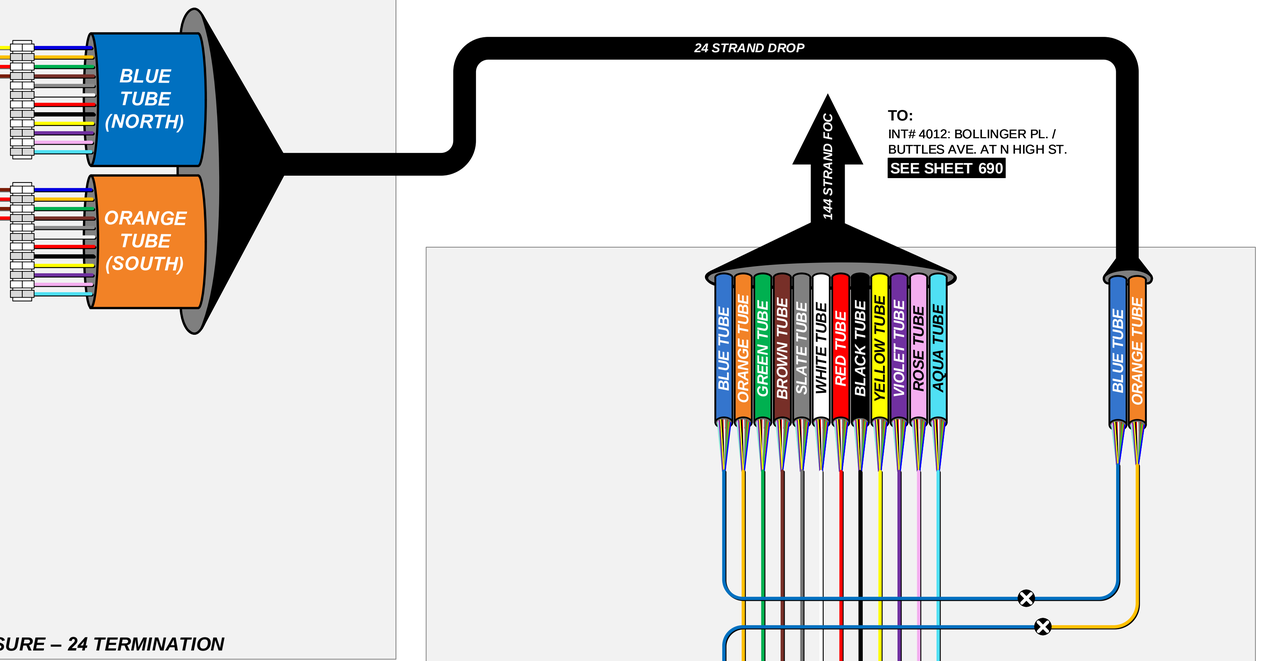




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4013: HUBBARD AVE. AT N HIGH ST.
SEE SHEET 691

PORT 6: INT# 4010: GOODALE ST. AT N HIGH ST.
SEE SHEET 687

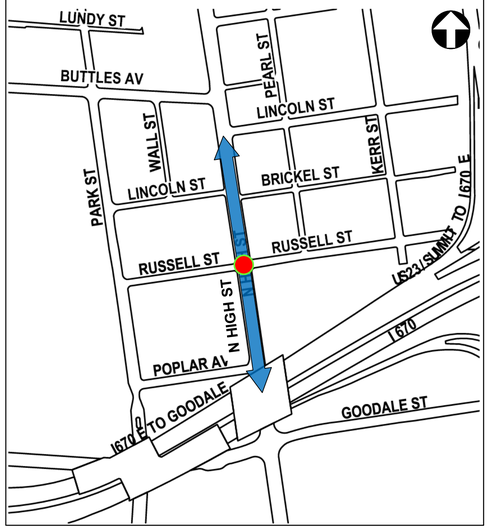


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4011

REFER TO SHEET 386 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

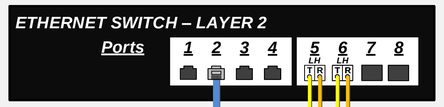
INT# 4011: N HIGH ST. AT RUSSELL ST.
COMMUNICATIONS DIAGRAM

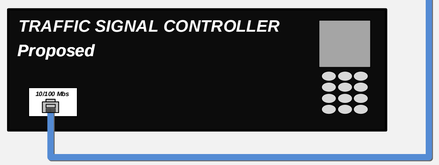
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

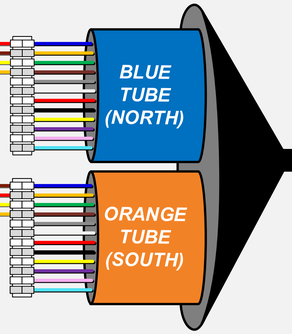




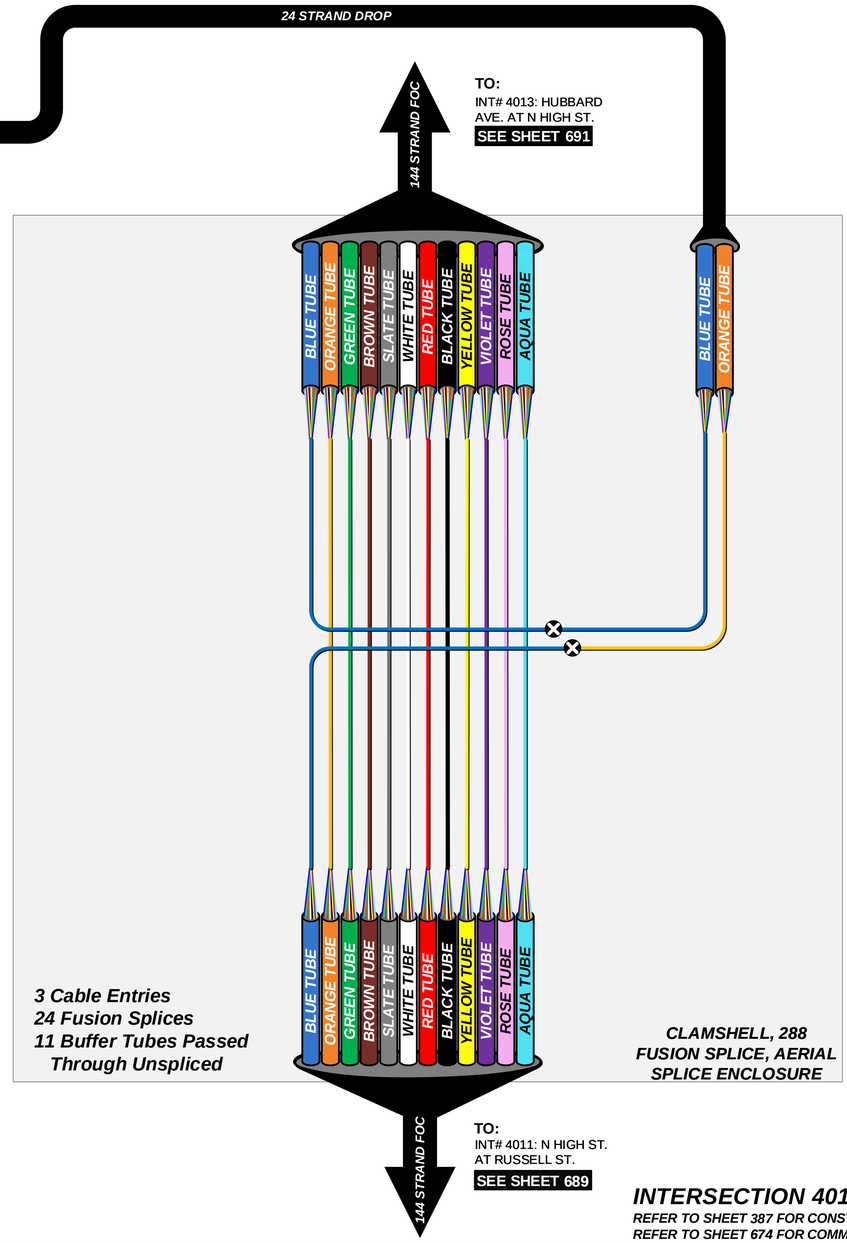
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4014: E FIRST AVE. / PRICE AVE. AT N HIGH ST.
SEE SHEET 692

PORT 6: INT# 3168: GOODALE ST. AT FOURTH ST.
SEE SHEET 688



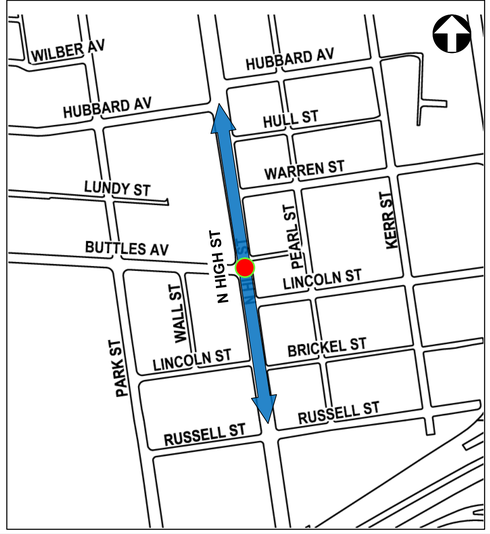
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4012

REFER TO SHEET 387 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

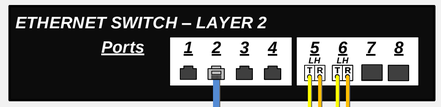
INT# 4012: BOLLINGER PL. / BUTTLES AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

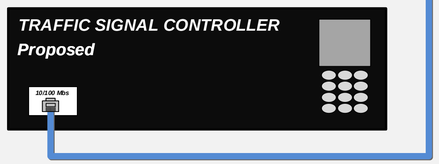
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

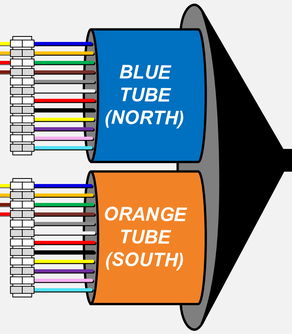




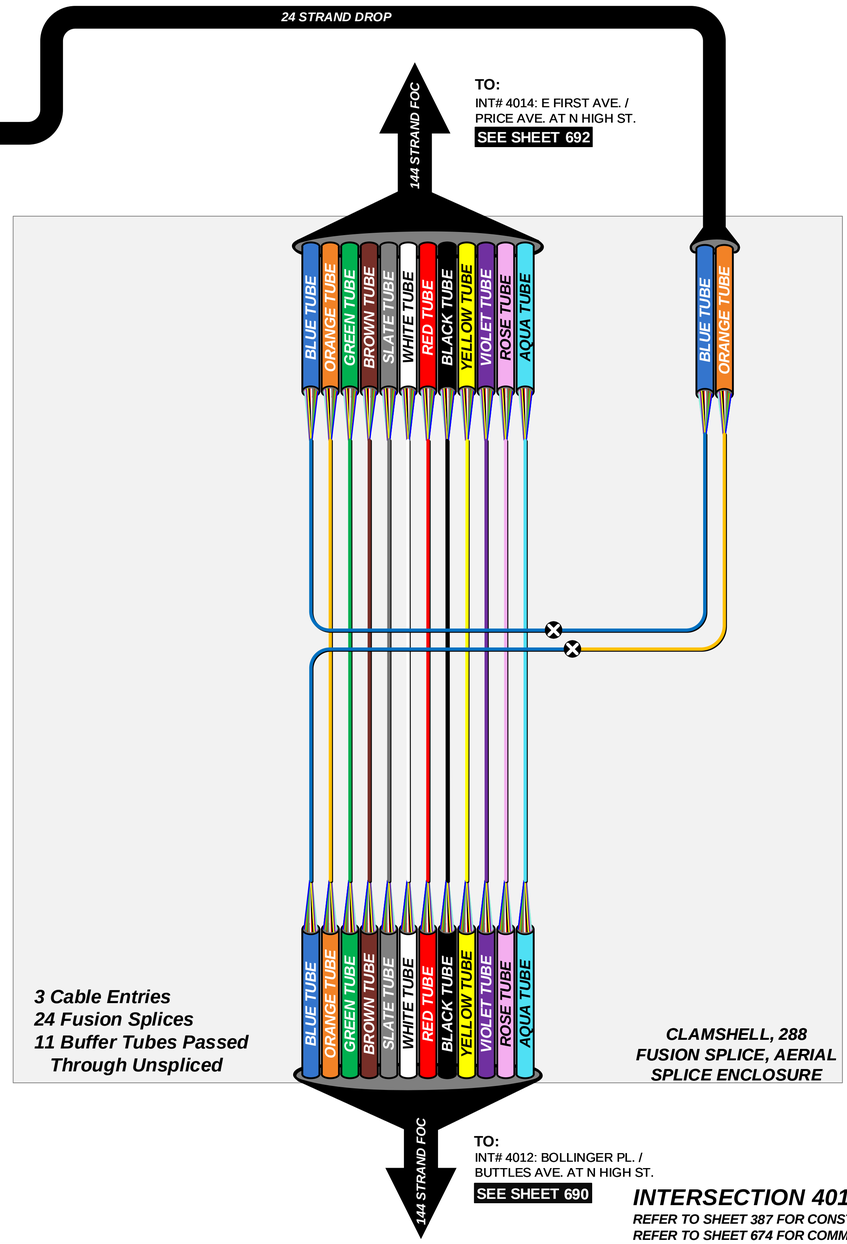
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4015: E SECOND AVE. / W STARR AVE. AT N HIGH ST.
SEE SHEET 693

PORT 6: INT# 4011: N HIGH ST. AT RUSSELL ST.
SEE SHEET 689



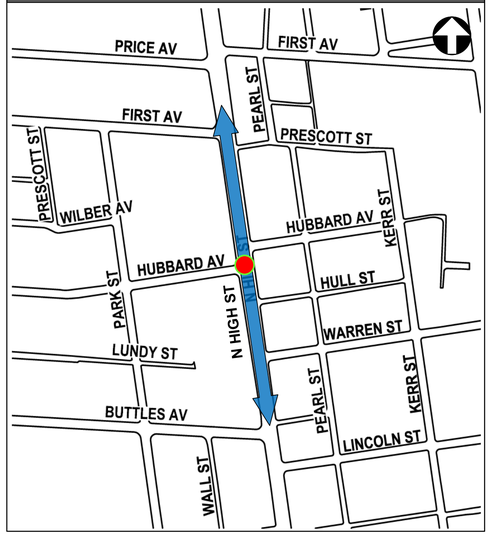
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4013

REFER TO SHEET 387 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

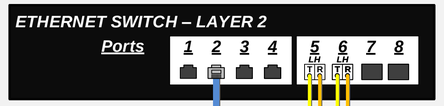
INT# 4013: HUBBARD AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

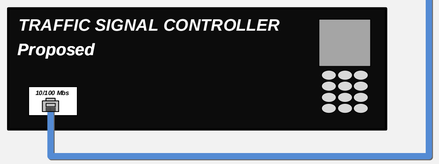
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

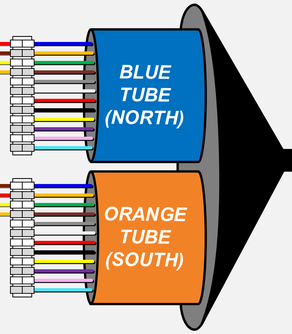




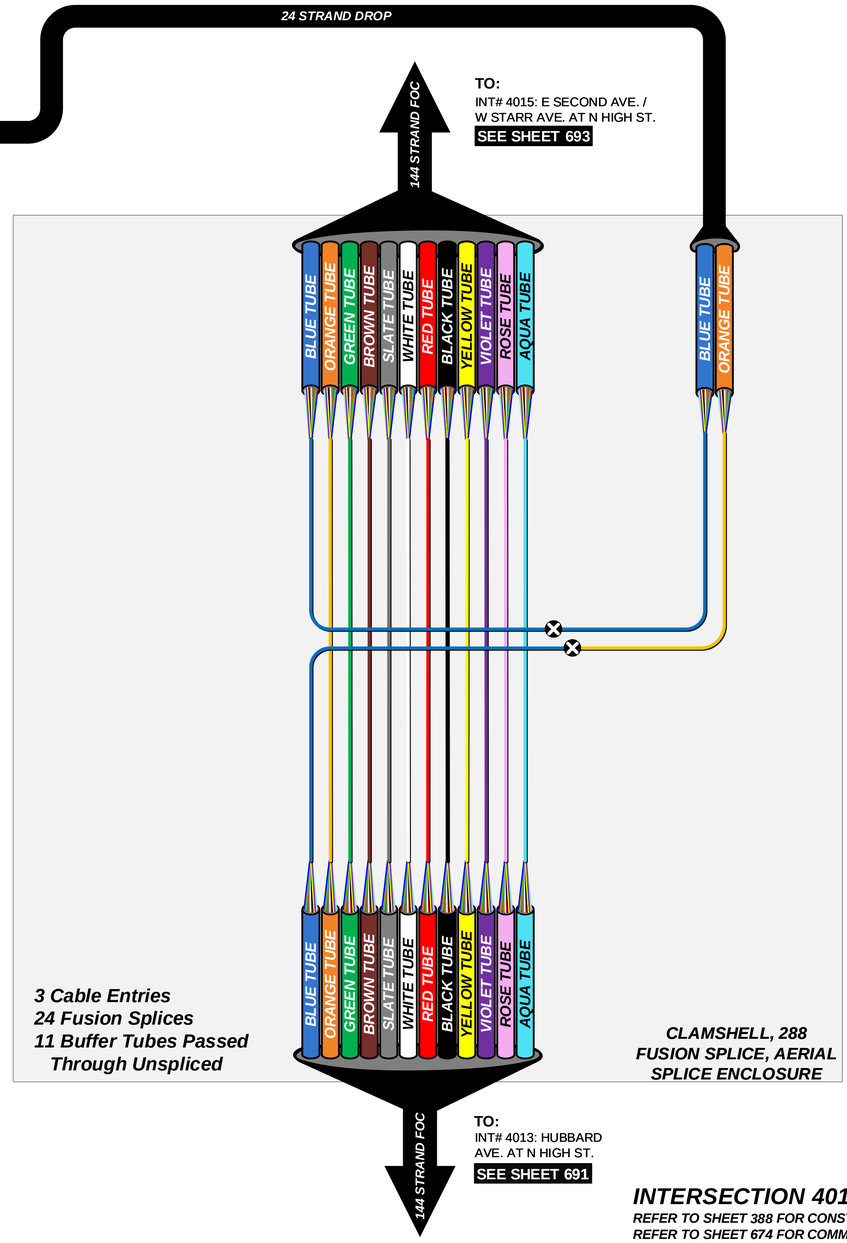
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4015: E SECOND AVE. / W STARR AVE. AT N HIGH ST.
SEE SHEET 693

PORT 6: INT# 4012: BOLLINGER PL. / BUTTLES AVE. AT N HIGH ST.
SEE SHEET 690



PATCH PANEL ENCLOSURE – 24 TERMINATION



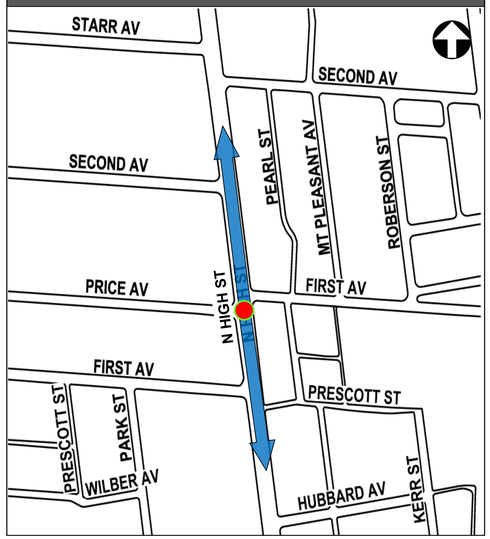
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4014

REFER TO SHEET 388 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4014: E FIRST AVE. / PRICE AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

692
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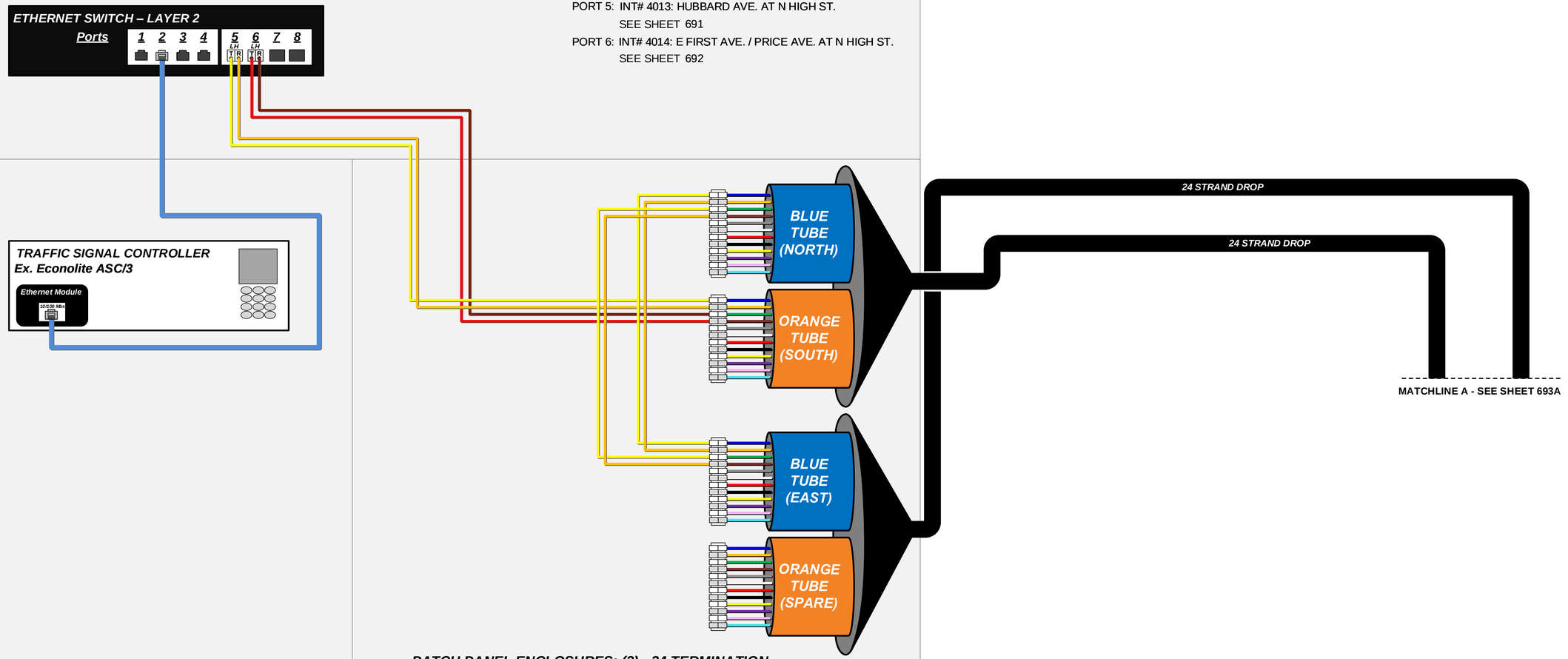
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4013: HUBBARD AVE. AT N HIGH ST.
SEE SHEET 691

PORT 6: INT# 4014: E FIRST AVE. / PRICE AVE. AT N HIGH ST.
SEE SHEET 692

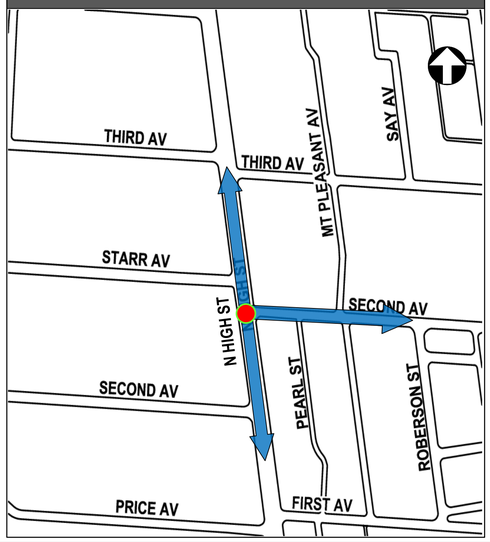


PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4015

REFER TO SHEET 389 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

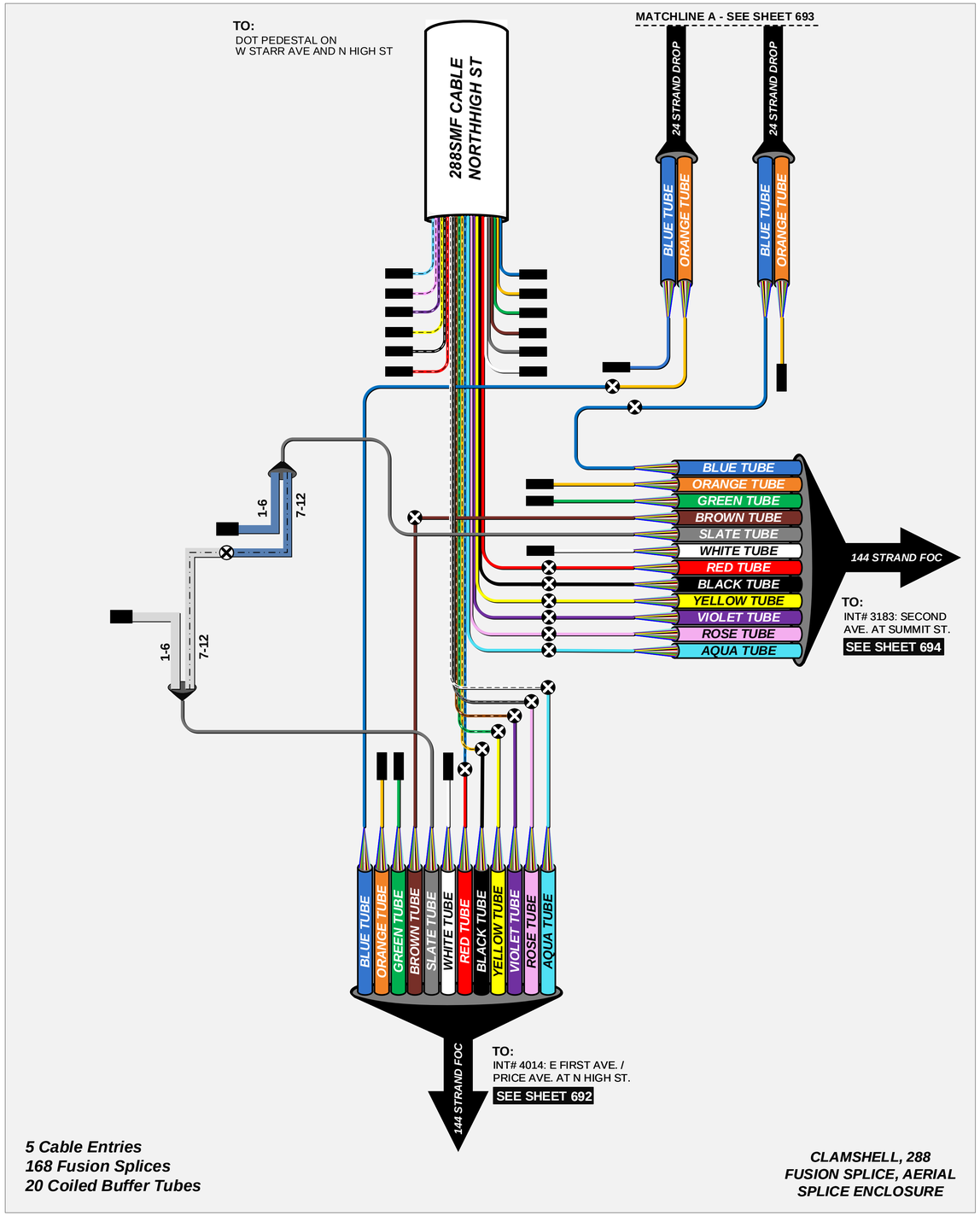
CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4015: E SECOND AVE. / W STARR AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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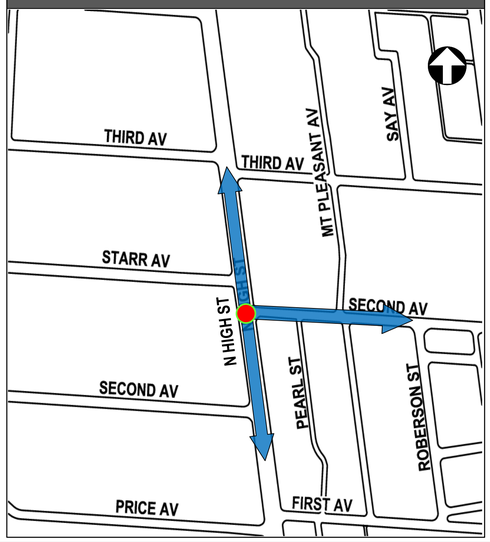
5 Cable Entries
168 Fusion Splices
20 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4015
REFER TO SHEET 389 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

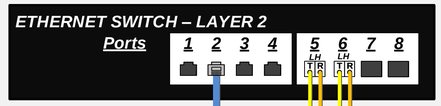
INT# 4015: E SECOND AVE. / W STARR AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

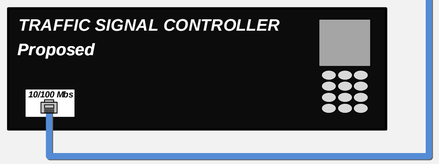
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

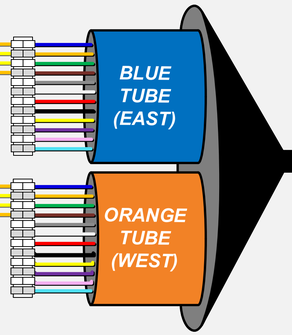


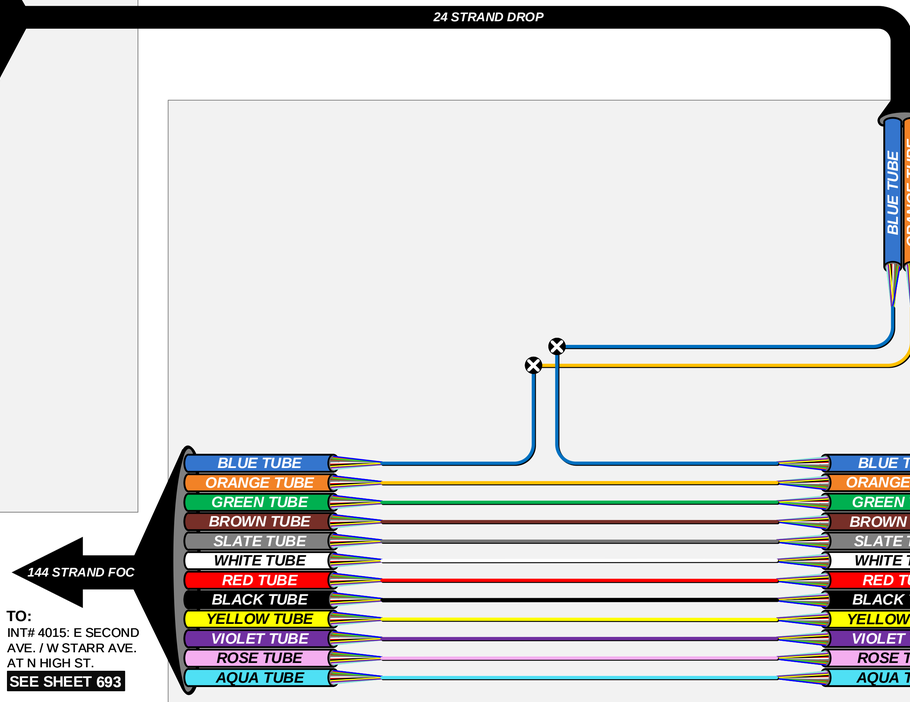


ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
SEE SHEET 964

PORT 6: INT# 4017: FIFTH AVE. AT N HIGH ST.
SEE SHEET 696





TO:
INT# 4015: E SECOND AVE. / W STARR AVE. AT N HIGH ST.
SEE SHEET 693

TO:
INT# 3010: CLEVELAND AVE. AT SECOND AVE.
SEE SHEET 820

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

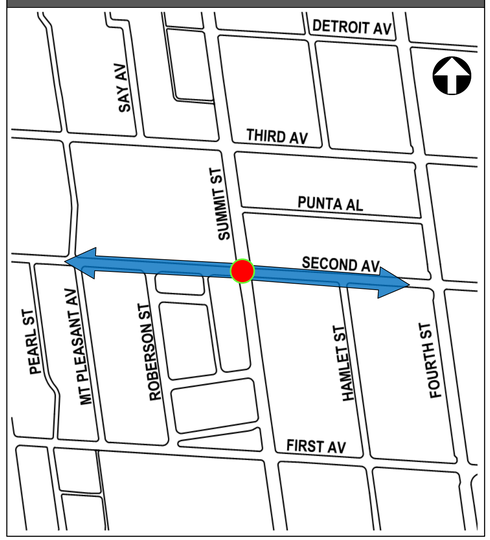
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3183
REFER TO SHEET 391 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

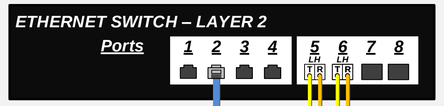
INT# 3183: SECOND AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

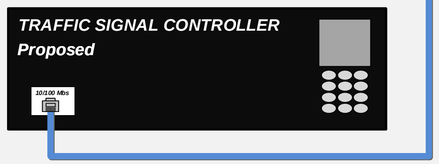
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

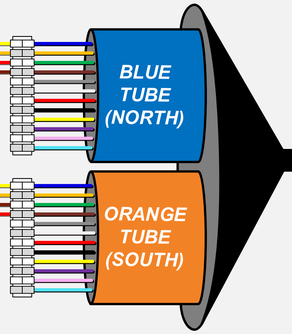


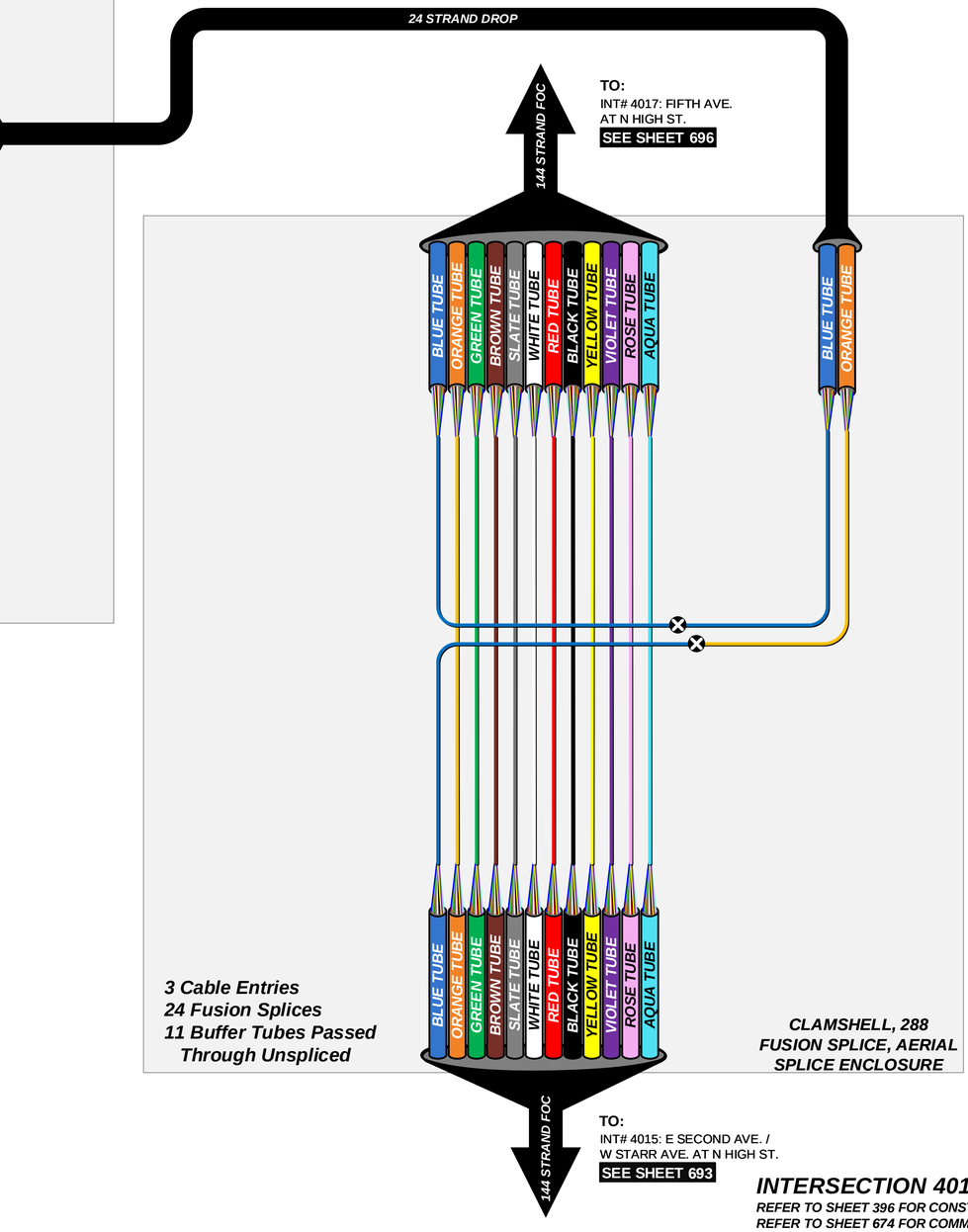


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4017: FIFTH AVE. AT N HIGH ST.
SEE SHEET 696

PORT 6: PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
SEE SHEET 964





PATCH PANEL ENCLOSURE – 24 TERMINATION

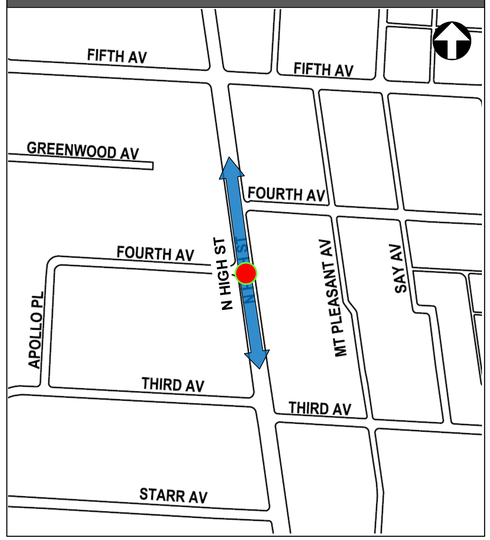
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4016

REFER TO SHEET 396 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4016: FOURTH AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 (LH T/R) 6 (LH T/R) 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mb/s

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 4018: E SEVENTH AVE. / KING AVE. AT N HIGH ST.
SEE SHEET 698

PORT 5: INT# 4016: FOURTH AVE. AT N HIGH ST.
SEE SHEET 695

PORT 6: INT# 3183: SECOND AVE. AT SUMMIT ST.
SEE SHEET 694

WIRELESS LINK TO INT# 4018: E SEVENTH AVE. / KING AVE. AT N HIGH ST.
SEE SHEET 698

BLUE TUBE (NORTH - Future)

ORANGE TUBE (SOUTH)

BLUE TUBE (SPARE)

ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP

24 STRAND DROP

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

TO:
INT# 4082: DENNISON AVE. AT FIFTH AVE.
SEE SHEET 817

ODOT FIBERS INSET DETAIL A
SEE SHEET 697

4 Cable Entries
102 Fusion Splices
22 Coiled Buffer Tubes

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

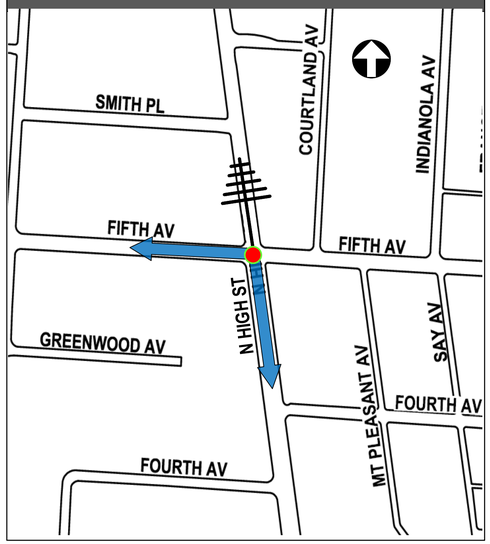
144 STRAND FOC

TO:
INT# 4016: FOURTH AVE. AT N HIGH ST.
SEE SHEET 695

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4017

REFER TO SHEET 397 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

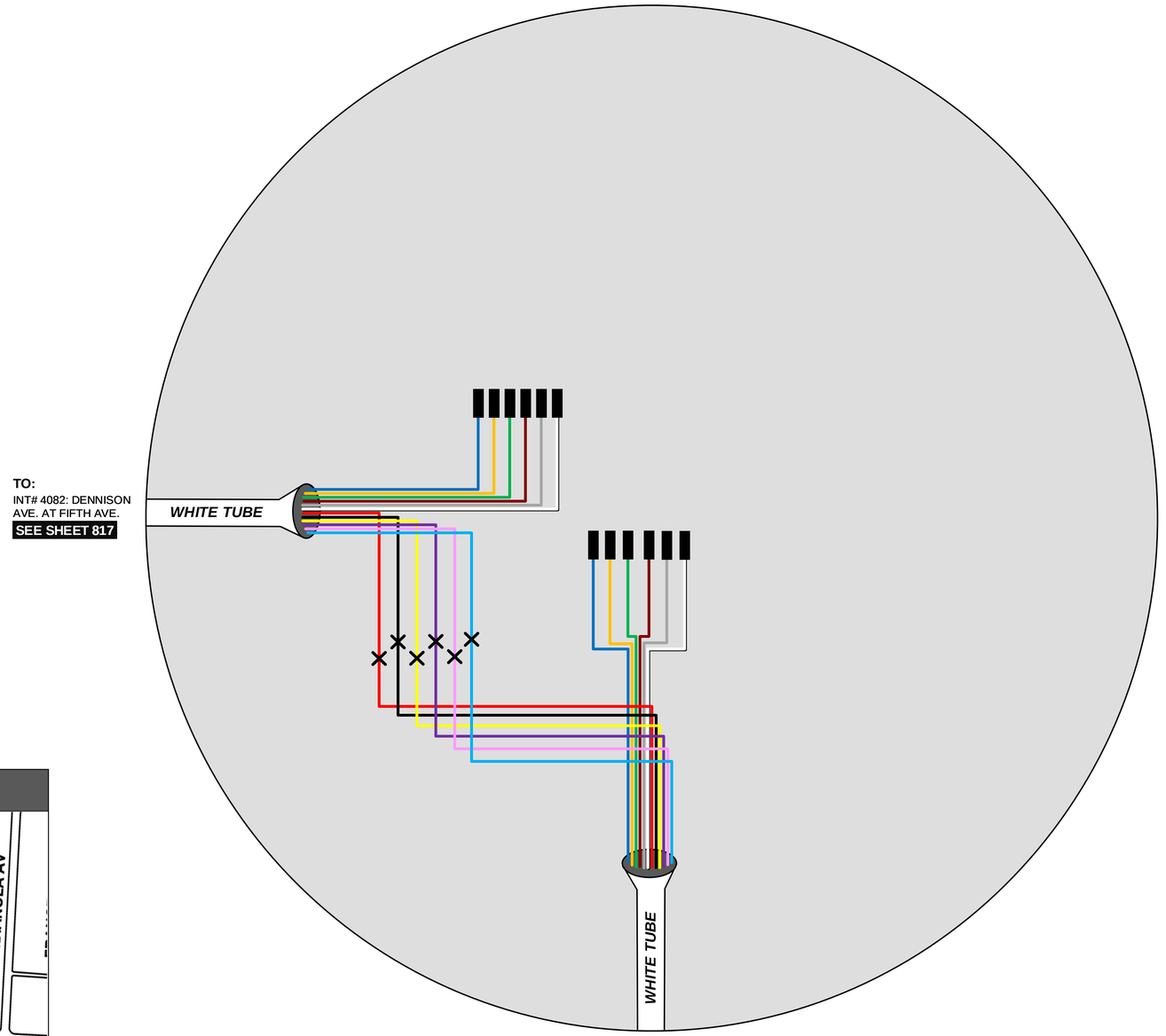
INT# 4017: FIFTH AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TO:
INT# 4082: DENNISON AVE. AT FIFTH AVE.
SEE SHEET 817

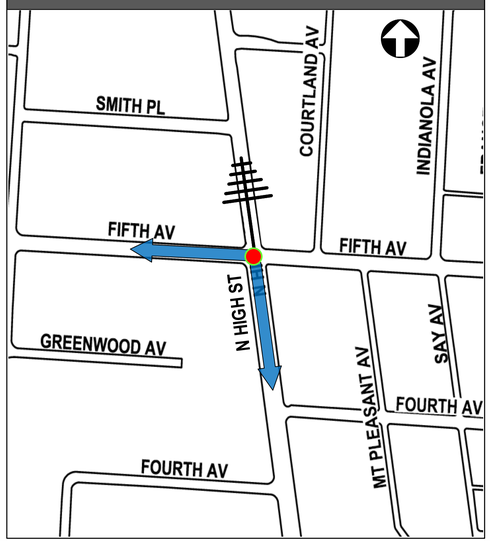
TO:
INT# 4016: FOURTH AVE. AT N HIGH ST.
SEE SHEET 695

INSET DETAIL A
SEE SHEET 696

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



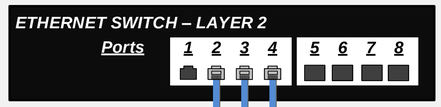
INTERSECTION 4017
REFER TO SHEET 397 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

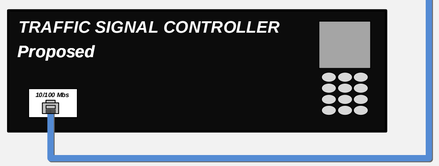
CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4017: FIFTH AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

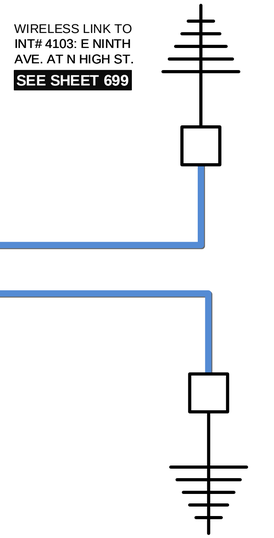




ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 4017: FIFTH AVE. AT N HIGH ST.
SEE SHEET 696

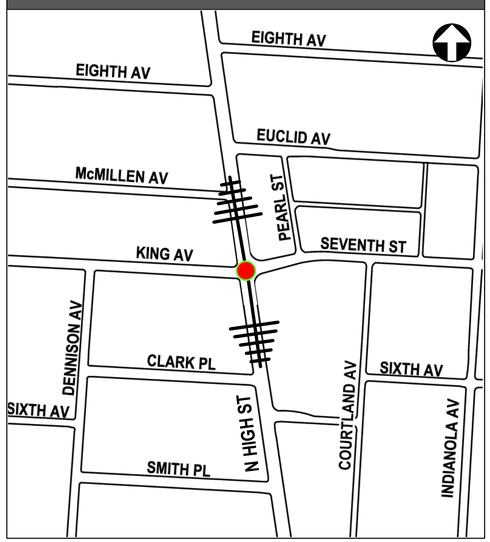
PORT 4: INT# 4103: E NINTH AVE. AT N HIGH ST.
SEE SHEET 699



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4018

REFER TO SHEET 398 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

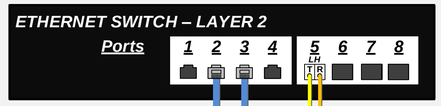
INT# 4018: E SEVENTH AVE. / KING AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

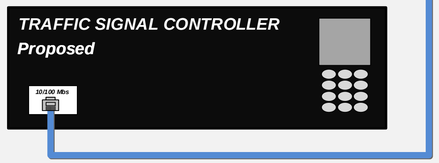
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

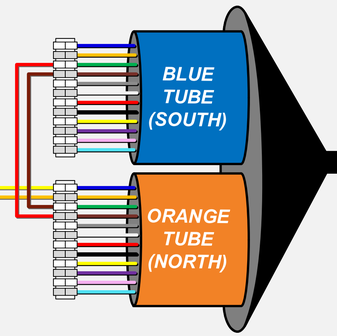




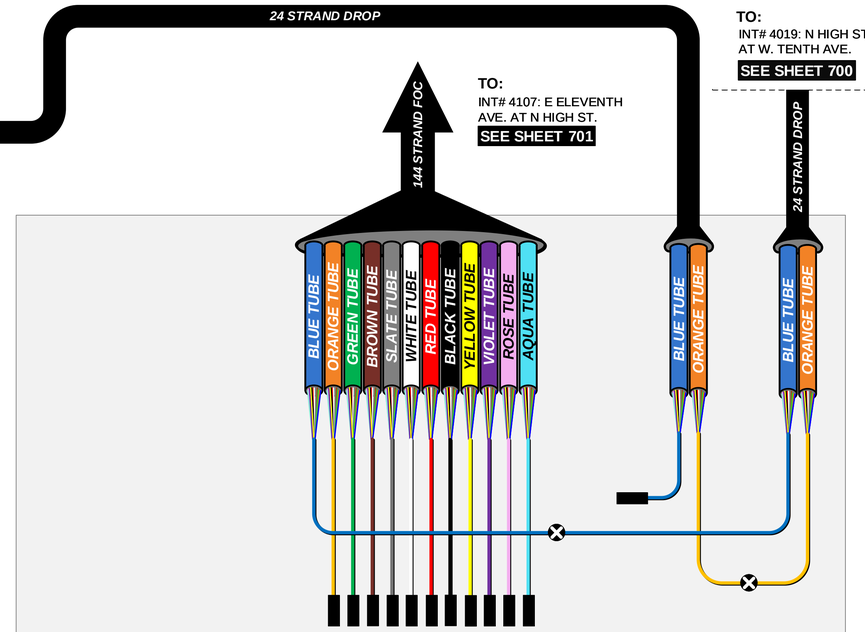
ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 4018: E SEVENTH AVE. / KING AVE. AT N HIGH ST.
SEE SHEET 698

PORT 5: INT# 4107: E ELEVENTH AVE. AT N HIGH ST.
SEE SHEET 701



WIRELESS LINK TO
INT# 4018: E SEVENTH AVE. /
KING AVE. AT N HIGH ST.
SEE SHEET 698



PATCH PANEL ENCLOSURE – 24 TERMINATION

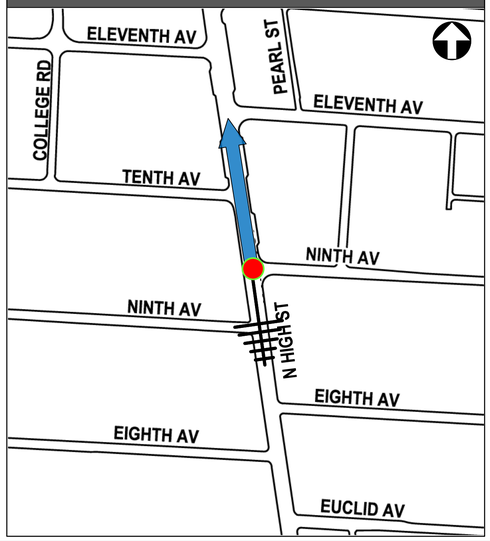
3 Cable Entries
24 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4103
REFER TO SHEET 399 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

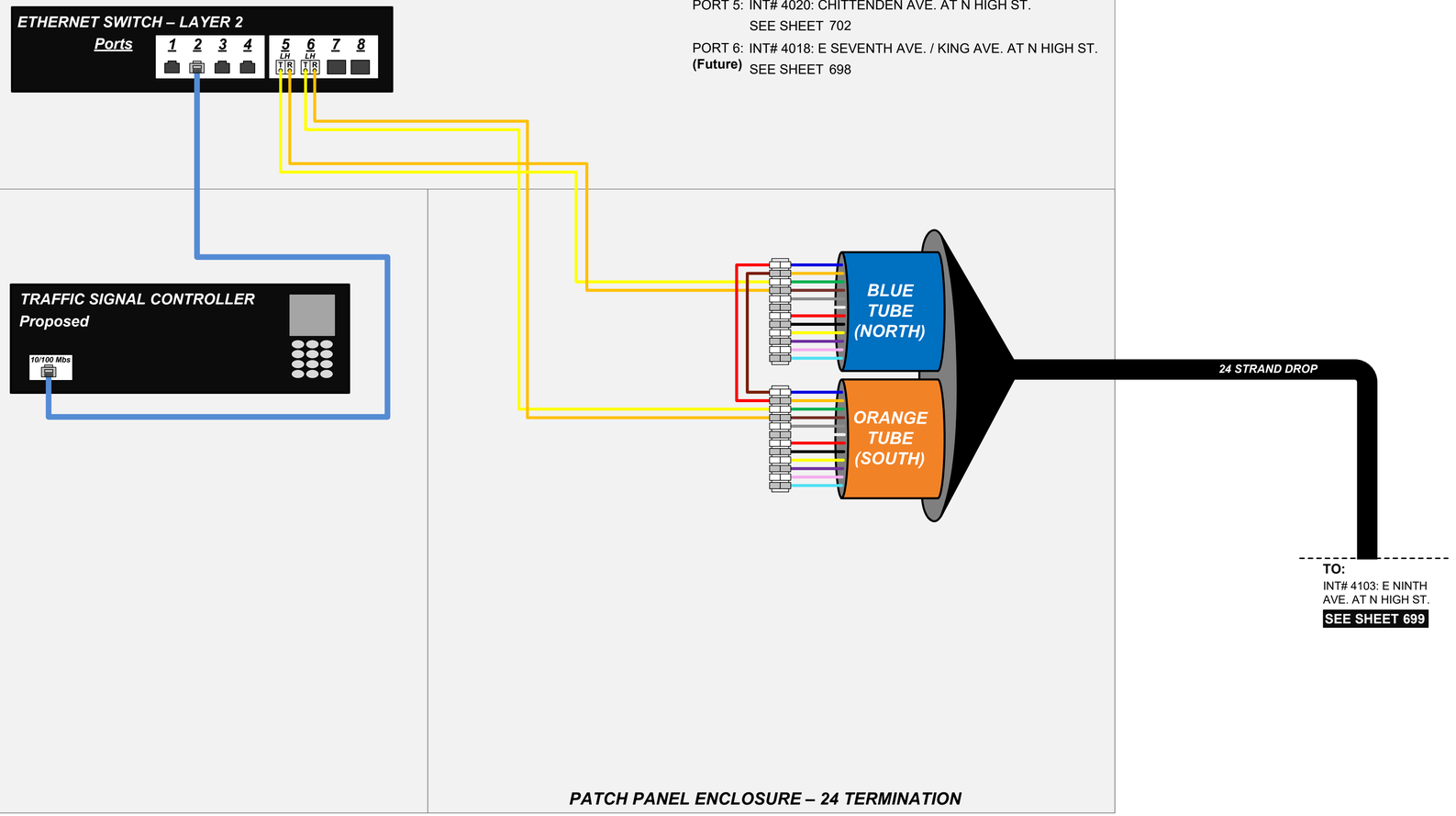
INT# 4103: E NINTH AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4020: CHITTENDEN AVE. AT N HIGH ST.
SEE SHEET 702

PORT 6: **(Future)** INT# 4018: E SEVENTH AVE. / KING AVE. AT N HIGH ST.
SEE SHEET 698

TO:
INT# 4103: E NINTH AVE. AT N HIGH ST.
SEE SHEET 699

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4019
REFER TO SHEET 399 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4019: N HIGH ST. AT W. TENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

700
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER

Ports: 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Existing Cobalt
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4103: E NINTH AVE. AT N HIGH ST.
SEE SHEET 699

PORT 6: INT# 4021: N HIGH ST. AT TWELFTH AVE.
SEE SHEET 703

BLUE TUBE (SOUTH)

ORANGE TUBE (NORTH)

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 4020: CHITTENDEN AVE. AT N HIGH ST.
SEE SHEET 702

EXISTING 24 STRAND DROP

SEE NOTE #1

144 STRAND FOC

TO:
INT# 4021: N HIGH ST. AT TWELFTH AVE.
SEE SHEET 703

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 24 STRAND DROP

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

4 Cable Entries
144 Proposed Fusion Splices
168 Total Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

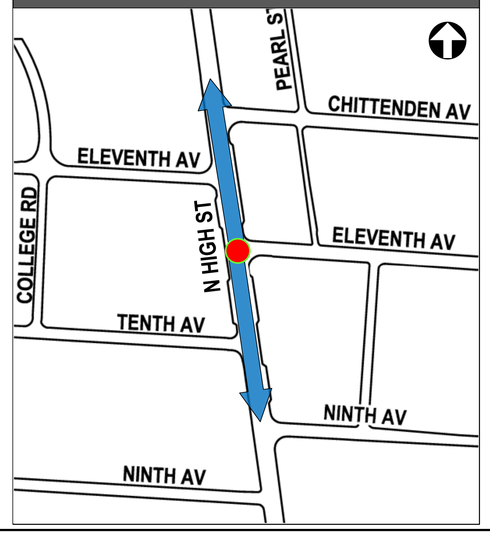
144 STRAND FOC

TO:
INT# 4103: E NINTH AVE. AT N HIGH ST.
SEE SHEET 699

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

1. REMOVE EXISTING 144 STRAND CABLE AND RESPLICE PROPOSED 144 STRAND CABLES AS SHOWN IN THE DIAGRAM ABOVE

INTERSECTION 4107

REFER TO SHEET 401 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

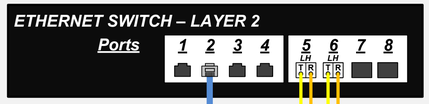
INT# 4107: E ELEVENTH AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

701
1000

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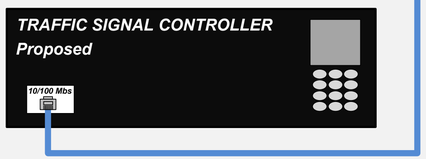
TRAFFIC SIGNAL CABINET ASSEMBLY

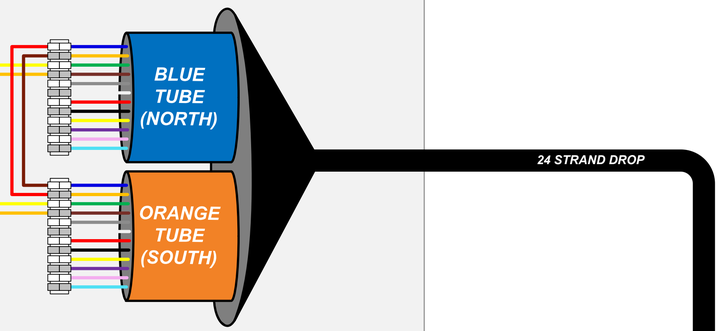


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4072: N HIGH ST. AT THIRTEENTH AVE.
SEE SHEET 704

PORT 6: INT# 4019: N HIGH ST. AT W. TENTH AVE.
SEE SHEET 700





TO: INT# 4107: E ELEVENTH AVE. AT N HIGH ST.
SEE SHEET 701

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4020

REFER TO SHEET 401 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4020: CHITTENDEN AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4072: N HIGH ST. AT THIRTEENTH AVE.
SEE SHEET 704

PORT 6: INT# 4107: E ELEVENTH AVE. AT N HIGH ST.
SEE SHEET 701

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

5 LH T R
6 LH T R

TRAFFIC SIGNAL CONTROLLER
Existing Cobalt

10/100 Mbs

EXISTING COMPOSITE CCTV CABLE

EXISTING CCTV

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

24 STRAND DROP

TO:
INT# 4072: N HIGH ST.
AT THIRTEENTH AVE.
SEE SHEET 704

144 STRAND FOC

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

EXISTING CCTV FIELD BOX
VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

PATCH PANEL ENCLOSURE – 24 TERMINATION

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

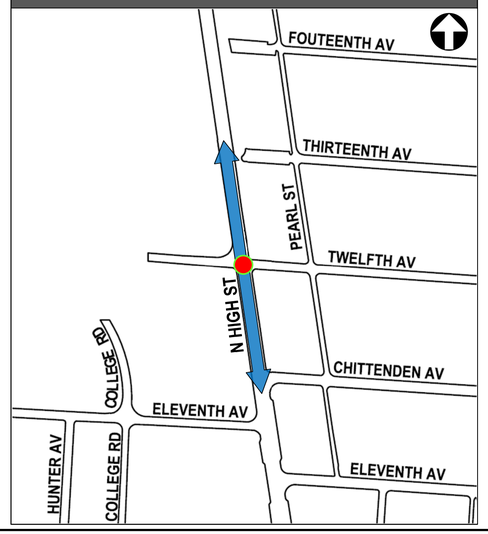
TO:
INT# 4107: E ELEVENTH AVE. AT N HIGH ST.
SEE SHEET 701

144 STRAND FOC

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4021

REFER TO SHEET 402 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

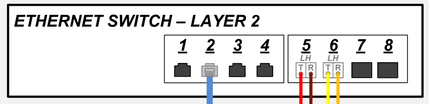
INT# 4021: N HIGH ST. AT TWELFTH AVE.
COMMUNICATIONS DIAGRAM

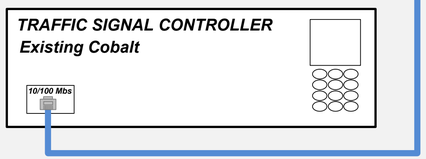
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

703
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

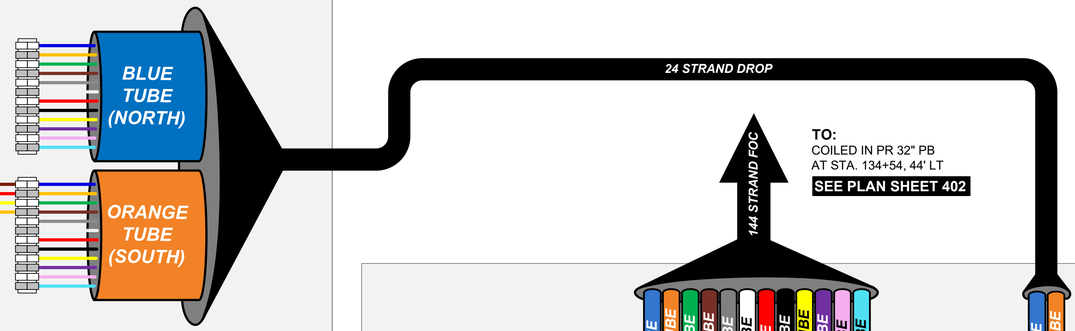




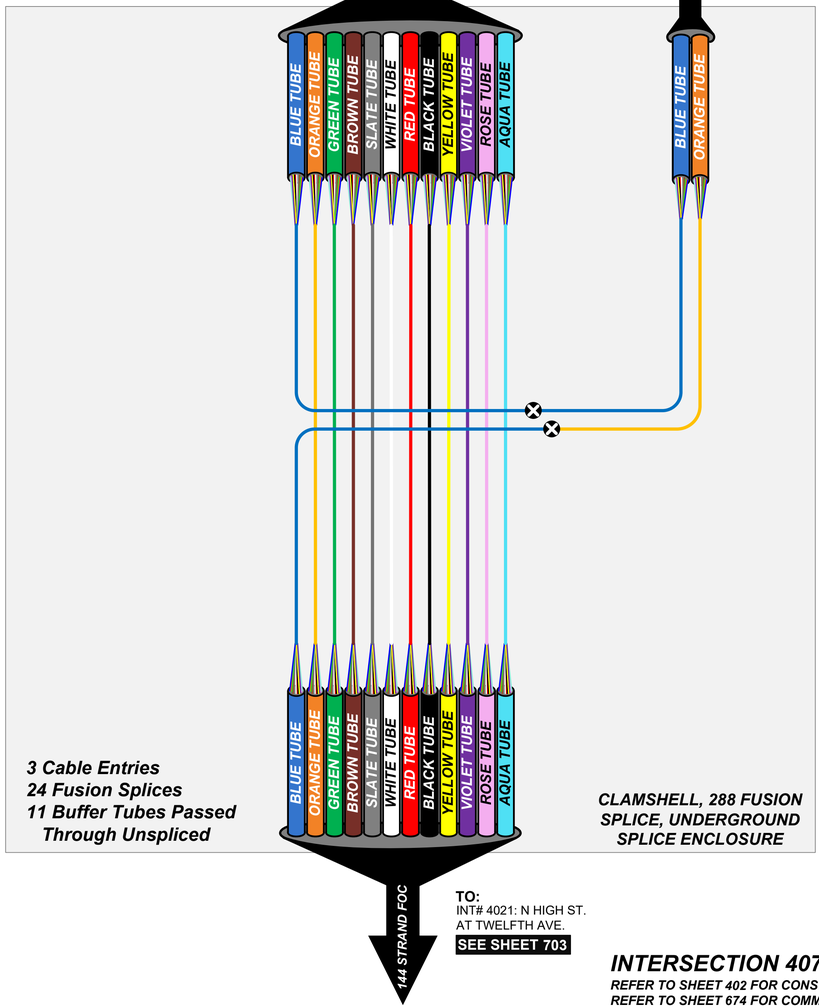
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4021: N HIGH ST. AT TWELFTH AVE.
SEE SHEET 703

PORT 6: INT# 4020: CHITTENDEN AVE. AT N HIGH ST.
SEE SHEET 702



PATCH PANEL ENCLOSURE – 24 TERMINATION



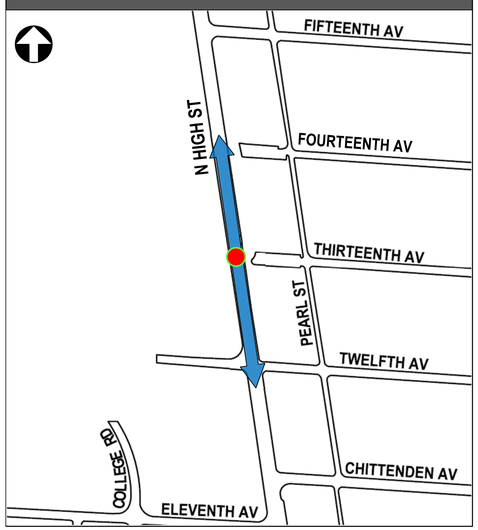
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4072

REFER TO SHEET 402 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

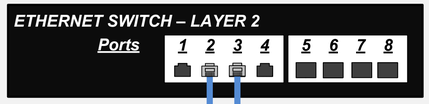
INT# 4072: N HIGH ST. AT THIRTEENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

704
1000

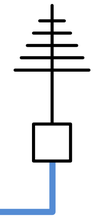
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TRAFFIC SIGNAL CABINET ASSEMBLY

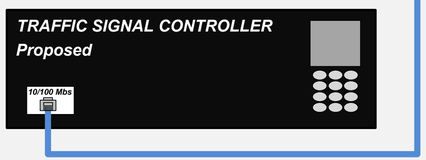


ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 4023: N HIGH ST. AT SEVENTEENTH AVE.
SEE SHEET 706



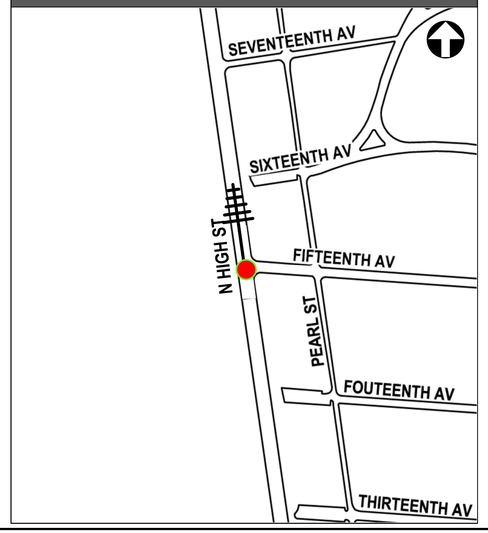
TO:
INT# 4023: N HIGH ST.
AT SEVENTEENTH AVE.
SEE SHEET 706



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4022

REFER TO SHEET 403 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4022: FIFTEENTH AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

705
1000

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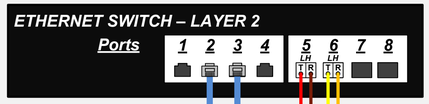
TRAFFIC SIGNAL CABINET ASSEMBLY

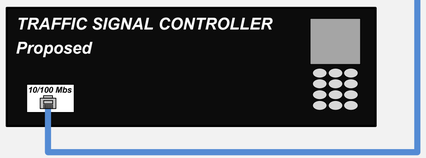
ETHERNET SWITCH PORT DESTINATION

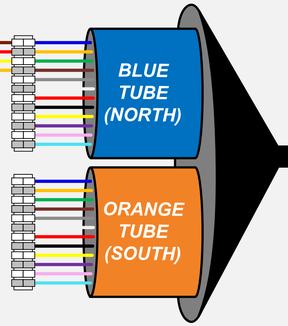
PORT 3: INT# 4022: FIFTEENTH AVE. AT N HIGH ST.
SEE SHEET 705

PORT 5: INT# 4024: EIGHTEENTH AVE. / MCDONALD'S AT N HIGH ST.
SEE SHEET 707

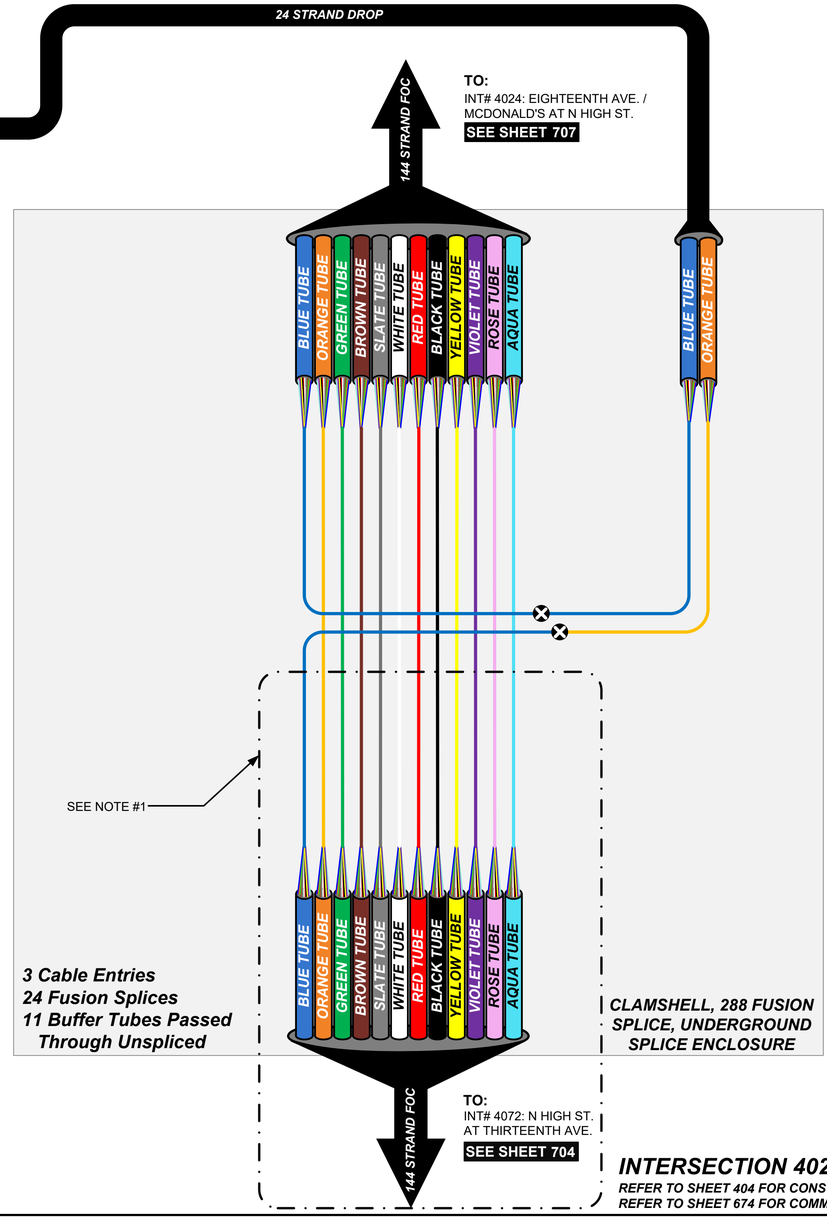
PORT 6: INT# 4025: N HIGH ST. AT WOODRUFF AVE.
SEE SHEET 708







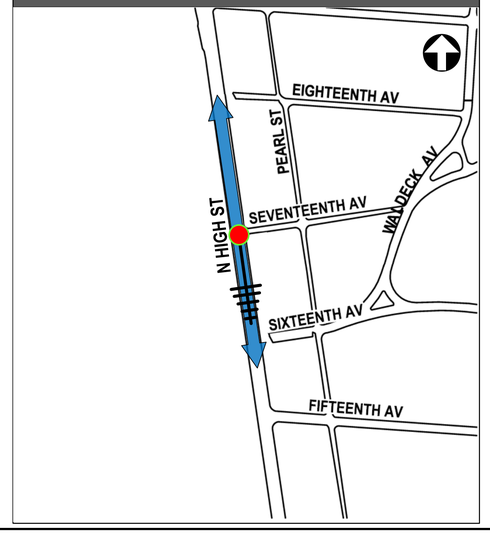
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

1. ABANDON 144 STRAND FIBER OPTIC CABLE. PROPOSED 144 STRAND CABLE TO BE INSTALLED AND RESPLICED BY 3451-E 15TH AVENUE AND HIGH STREET REDEVELOPMENT PHASE 2 PROJECT.

INTERSECTION 4023

REFER TO SHEET 404 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4023: N HIGH ST. AT SEVENTEENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

706
1000

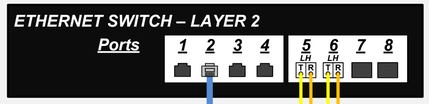
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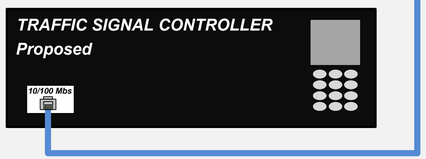
TRAFFIC SIGNAL CABINET ASSEMBLY

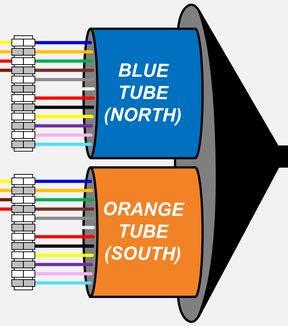
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3196: INDIANOLA AVE. AT LANE AVE.
SEE SHEET 712

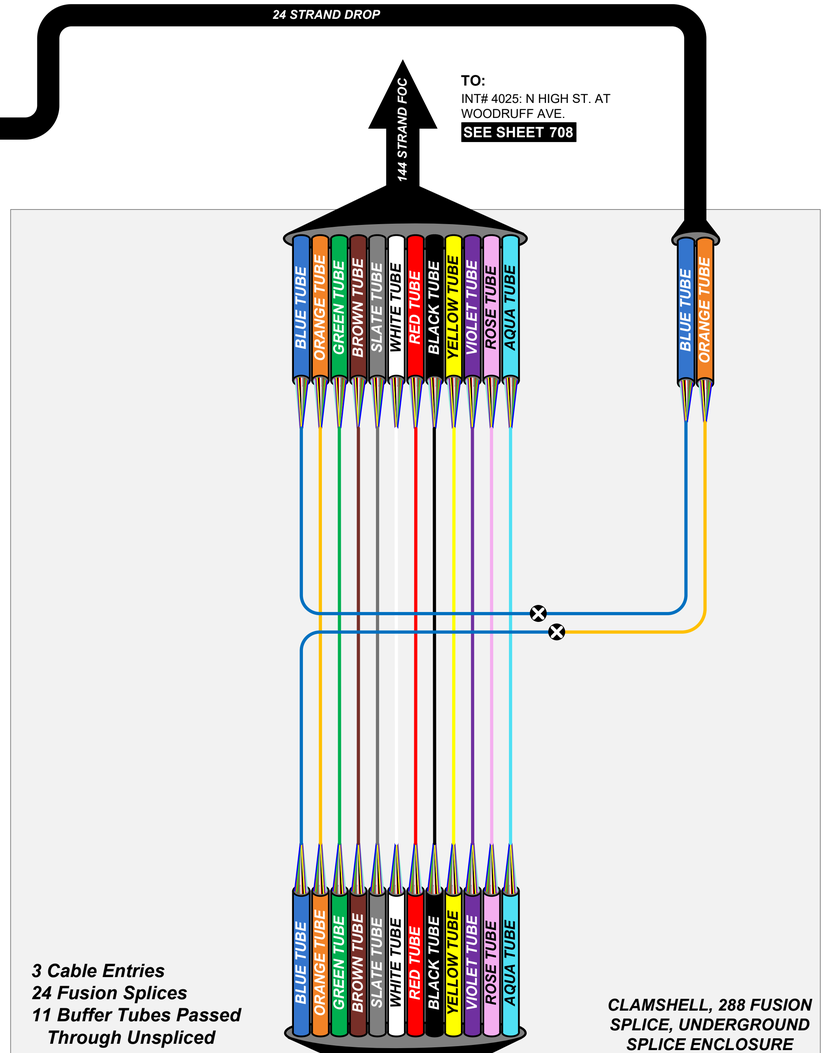
PORT 6: INT# 4023: N HIGH ST. AT SEVENTEENTH AVE.
SEE SHEET 706







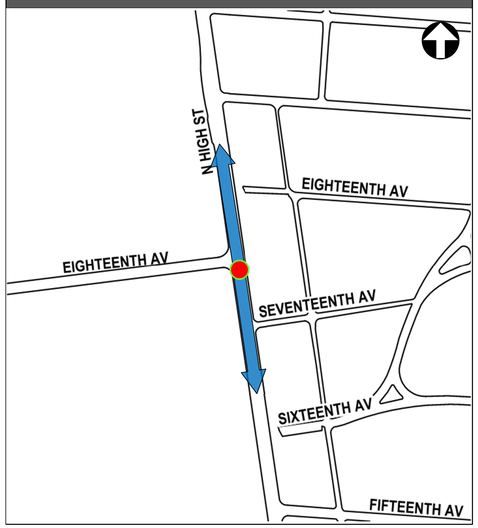
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4024

REFER TO SHEET 407 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4024: EIGHTEENTH AVE. / MCDONALD'S AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

707
1000

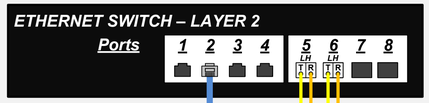
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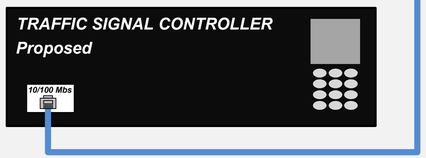
TRAFFIC SIGNAL CABINET ASSEMBLY

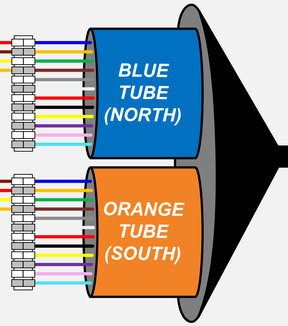
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4027: N HIGH ST. AT NORTHWOOD AVE.
SEE SHEET 713

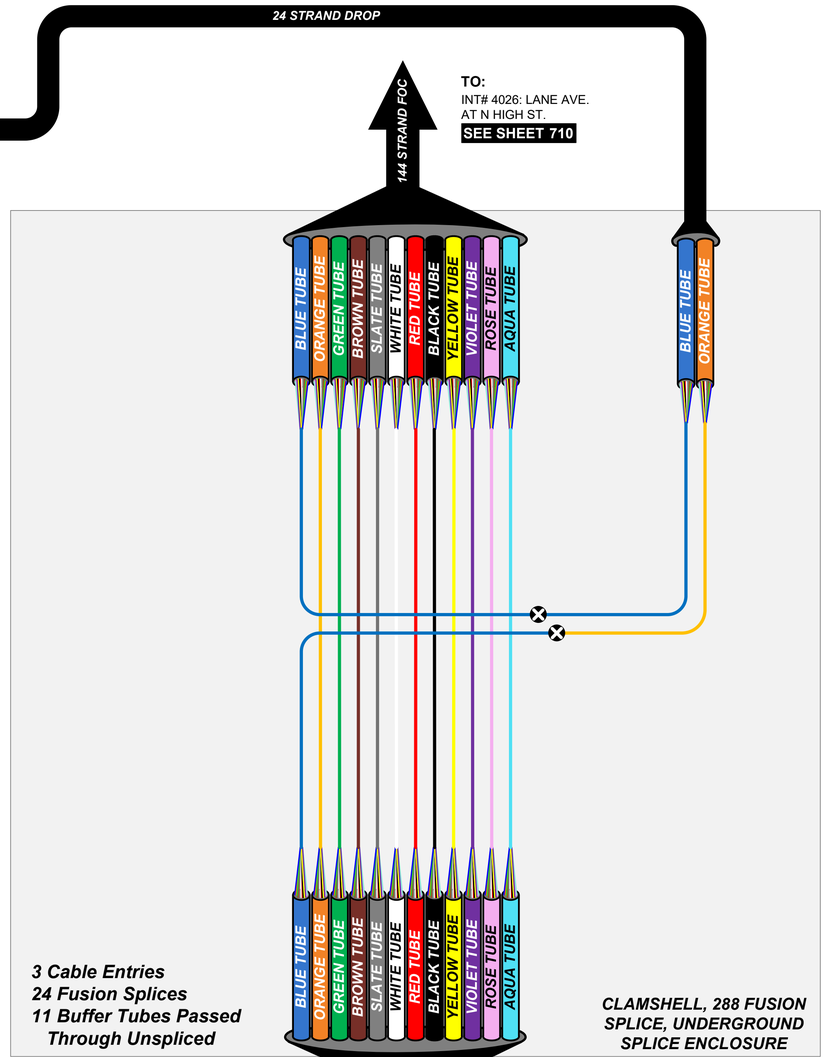
PORT 6: INT# 4023: N HIGH ST. AT SEVENTEENTH AVE.
SEE SHEET 706







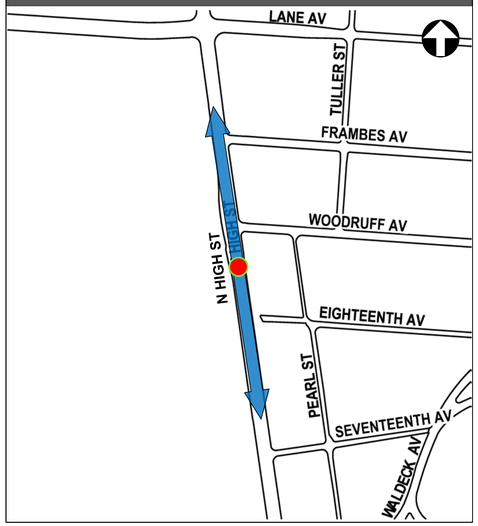
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4025

REFER TO SHEET 408 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

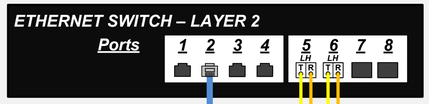
INT# 4025: N HIGH ST. AT WOODRUFF AVE.
COMMUNICATIONS DIAGRAM

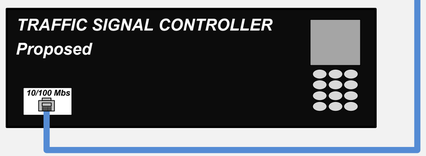
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

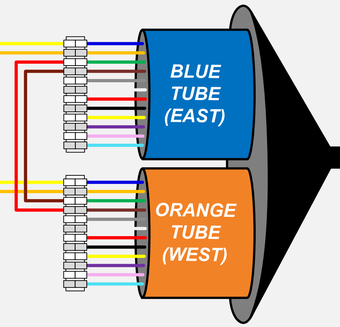




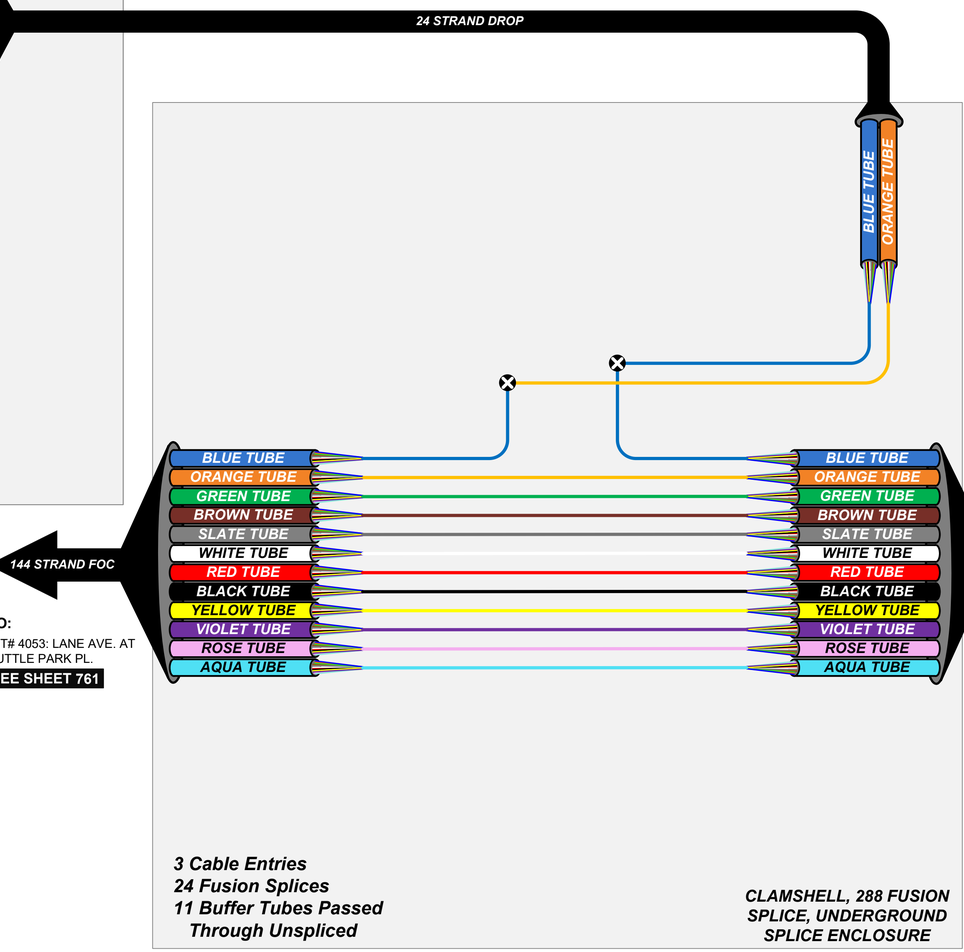
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3196: INDIANOLA AVE. AT LANE AVE.
SEE SHEET 712

PORT 6: INT# 4242: LANE AVE. AT PERRY ST.
SEE SHEET 760



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4053: LANE AVE. AT TUTTLE PARK PL.
SEE SHEET 761

TO:
INT# 4026: LANE AVE. AT N HIGH ST.
SEE SHEET 710

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4052
REFER TO SHEET 333 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4052: LANE AVE. AT NEIL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 (LH T R CCS) 6 (LH T R CCS) 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed

ETHERNET SWITCH PORT DESTINATION

PORT 3: EXISTING CCTV CABINET AT LANE AVE. AND HIGH ST.
SEE THIS SHEET

PORT 5: INT# 4028: N HIGH ST. AT PATTERSON AVE.
SEE SHEET 714

PORT 6: INT# 4053: LANE AVE. AT TUTTLE PARK PL.
SEE SHEET 761

EXISTING CCTV CABINET AT LANE AVE. AND HIGH ST.

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

COMPOSITE CCTV CABLE

PROPOSED CCTV

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 4027: N HIGH ST. AT NORTHWOOD AVE.
SEE SHEET 713

ODOT FIBERS INSET DETAIL A
SEE SHEET 711

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

144 STRAND FOC

TO:
INT# 4052: LANE AVE. AT NEIL AVE.
SEE SHEET 709

144 STRAND FOC

TO:
INT# 3196: INDIANOLA AVE. AT LANE AVE.
SEE SHEET 712

144 STRAND FOC

TO:
INT# 4025: N HIGH ST. AT WOODRUFF AVE.
SEE SHEET 708

6 Cable Entries
312 Fusion Splices

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4026

REFER TO SHEET 409 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4026: LANE AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

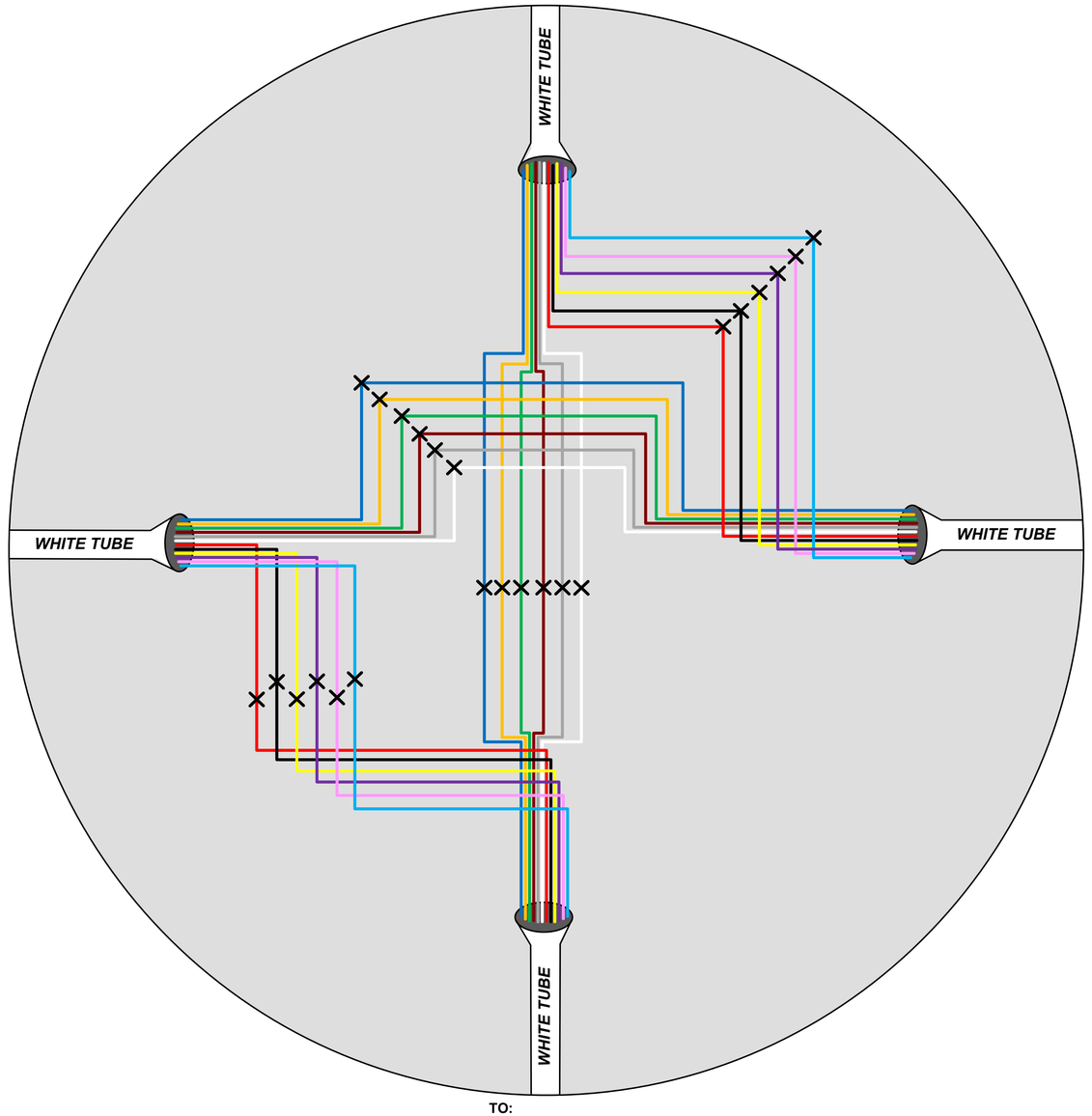
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TO:
INT# 4027: N HIGH ST. AT NORTHWOOD AVE.
SEE SHEET 713

TO:
INT# 4052: LANE AVE. AT NEIL AVE.
SEE SHEET 709

TO:
INT# 3196: INDIANOLA AVE. AT LANE AVE.
SEE SHEET 712



TO:
INT# 4025: N HIGH ST. AT WOODRUFF AVE.
SEE SHEET 708

INSET DETAIL A
SEE SHEET 710

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



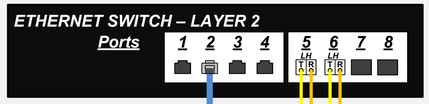
INTERSECTION 4026
REFER TO SHEET 409 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

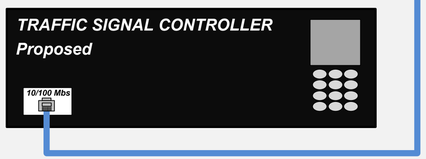
CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4026: LANE AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

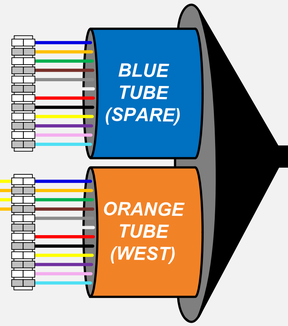


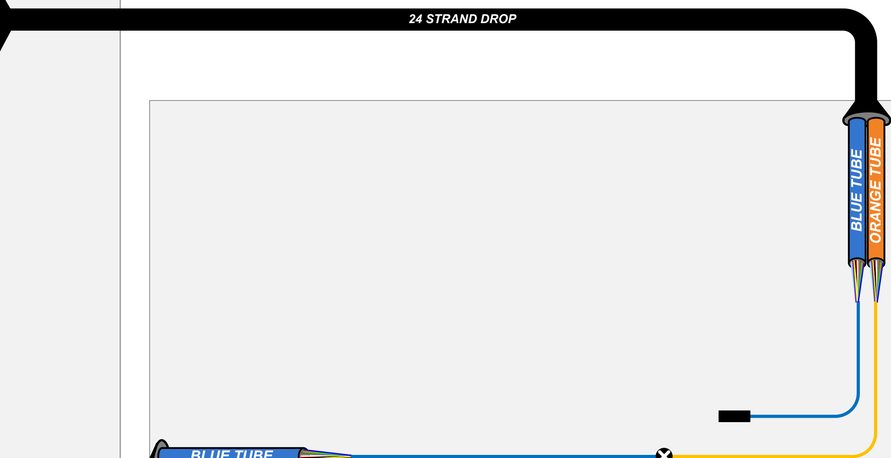


ETHERNET SWITCH PORT DESTINATION

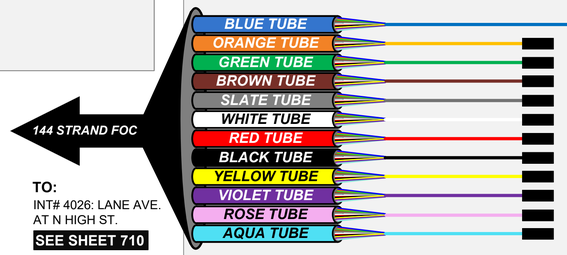
PORT 5: INT# 4052: LANE AVE. AT NEIL AVE.
SEE SHEET 709

PORT 6: INT# 4024: EIGHTEENTH AVE. / MCDONALD'S AT N HIGH ST.
SEE SHEET 707





PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4026: LANE AVE. AT N HIGH ST.
SEE SHEET 710

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3196
REFER TO SHEET 334 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3196: INDIANOLA AVE. AT LANE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

712
1000

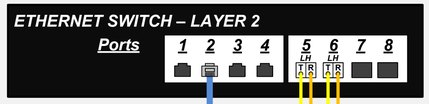
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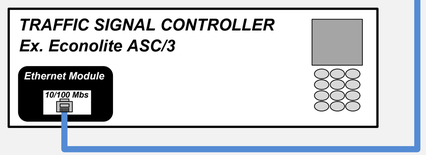
TRAFFIC SIGNAL CABINET ASSEMBLY

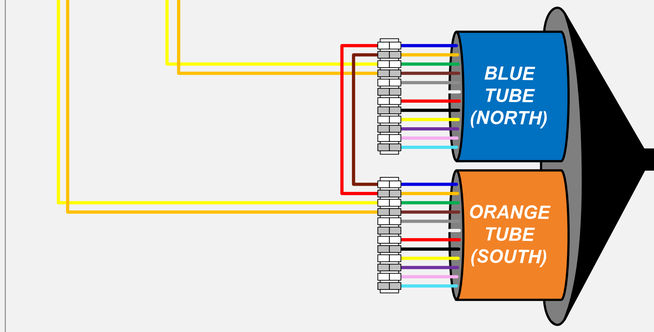
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4029: HUDSON ST. AT N HIGH ST.
SEE SHEET 715

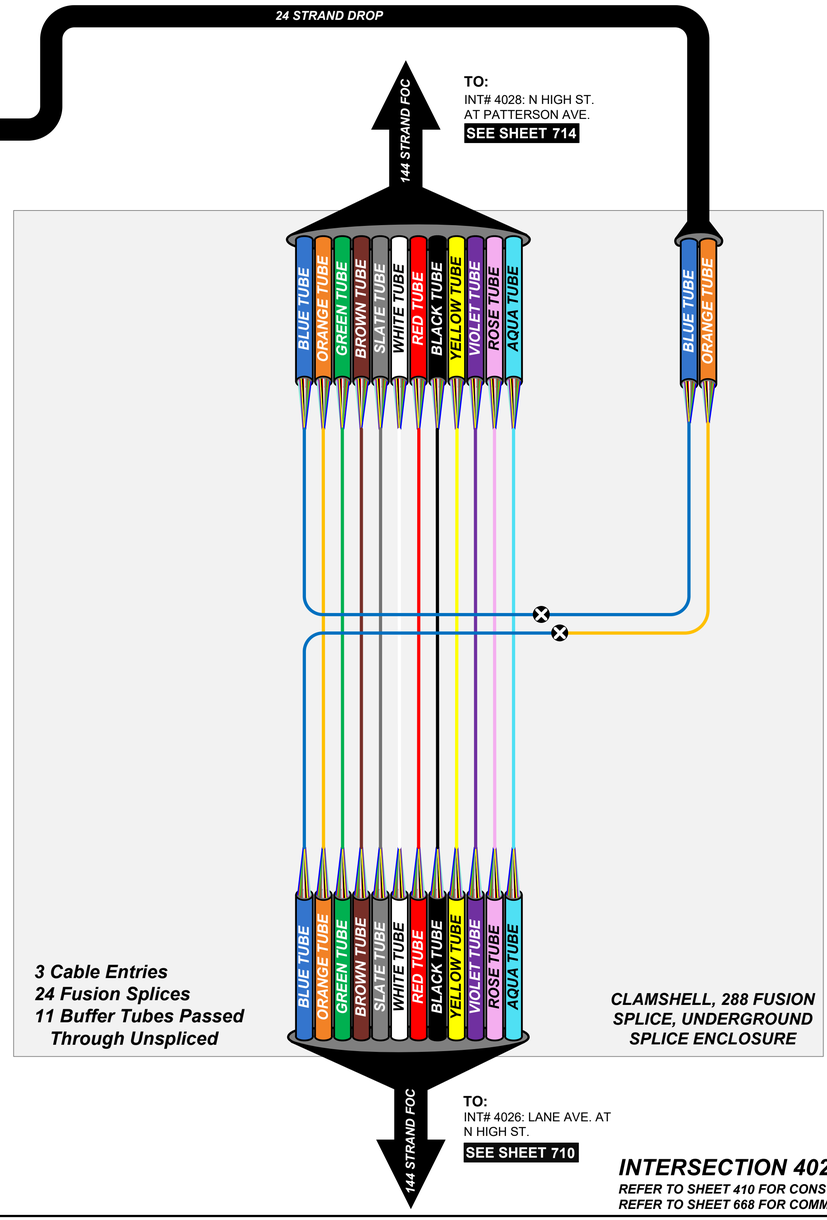
PORT 6: INT# 4025: N HIGH ST. AT WOODRUFF AVE.
SEE SHEET 708







PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4027

REFER TO SHEET 410 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

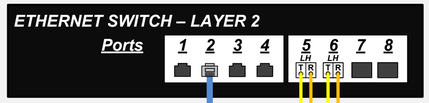
INT# 4027: N HIGH ST. AT NORTHWOOD AVE.
COMMUNICATIONS DIAGRAM

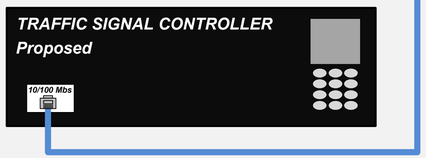
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

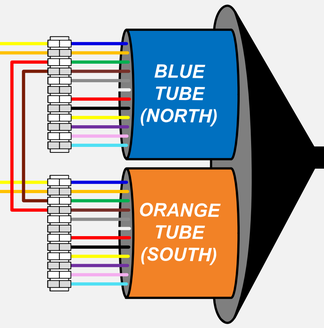




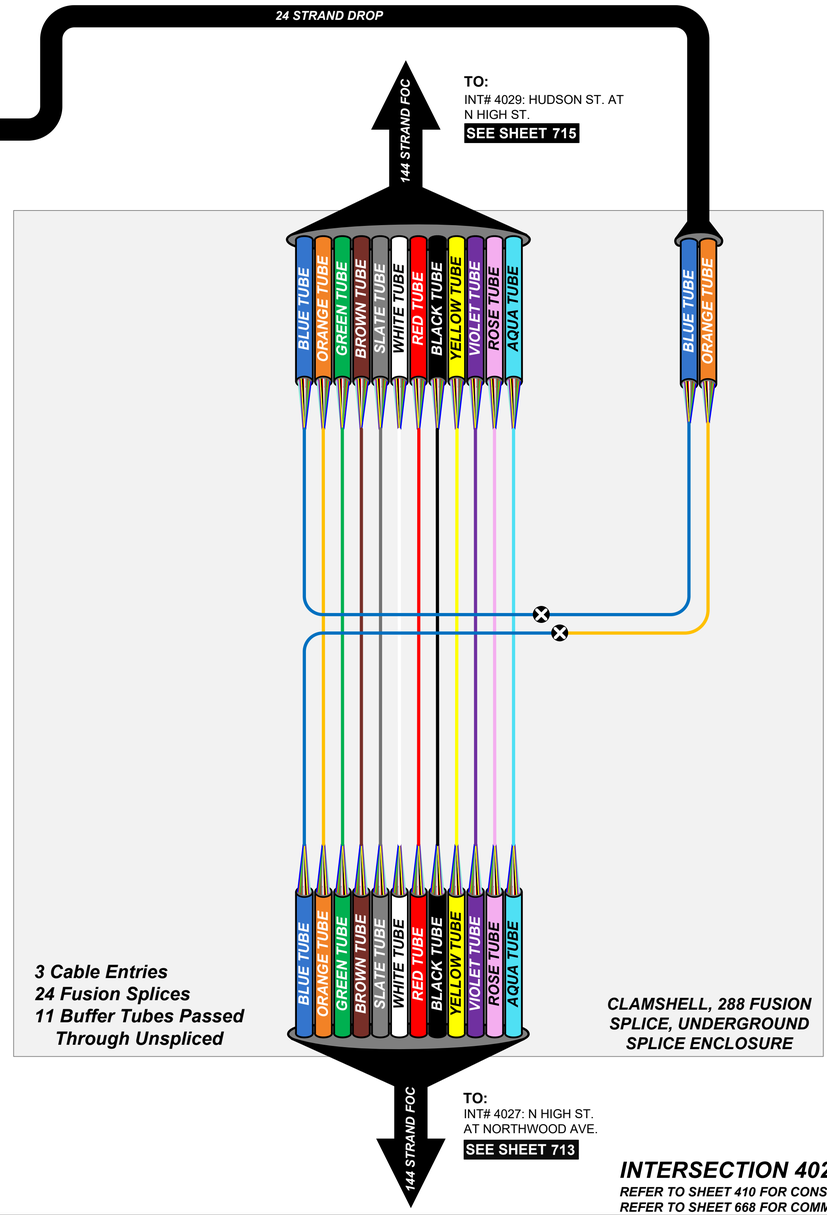
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4007: DODRIDGE ST. AT N HIGH ST.
SEE SHEET 717

PORT 6: INT# 4026: LANE AVE. AT N HIGH ST.
SEE SHEET 710



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4028

REFER TO SHEET 410 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4028: N HIGH ST. AT PATTERSON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

714
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 (LH T R) 6 (LH T R) 7 (LH T R) 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4006: ARCADIA AVE. AT N HIGH ST.
SEE SHEET 719

PORT 6: INT# 4027: N HIGH ST. AT NORTHWOOD AVE.
SEE SHEET 713

PORT 7: INT# 4104: HUDSON ST. AT NEIL AVE.
SEE SHEET 716

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER

Ex. Econolite ASC/2S-2100

RS232

EXISTING CCTV CABINET

CCTV FIELD BOX

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

COMPOSITE CCTV CABLE → PROPOSED CCTV

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (SPARE)
ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 4007: DODRIDGE ST. AT N HIGH ST.
SEE SHEET 717

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

24 STRAND FOC
BLUE TUBE
ORANGE TUBE

TO:
INT# 4104: HUDSON ST. AT NEIL AVE.
SEE SHEET 716

5 Cable Entries
36 Fusion Splices
2 Coiled Buffer Tubes
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144 STRAND FOC

TO:
INT# 4028: N HIGH ST. AT PATTERSON AVE.
SEE SHEET 714

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4029

REFER TO SHEET 414 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

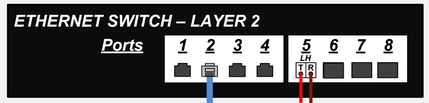
INT# 4029: HUDSON ST. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

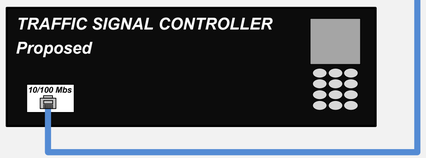
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

715
1000

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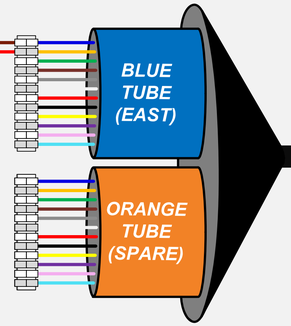
TRAFFIC SIGNAL CABINET ASSEMBLY



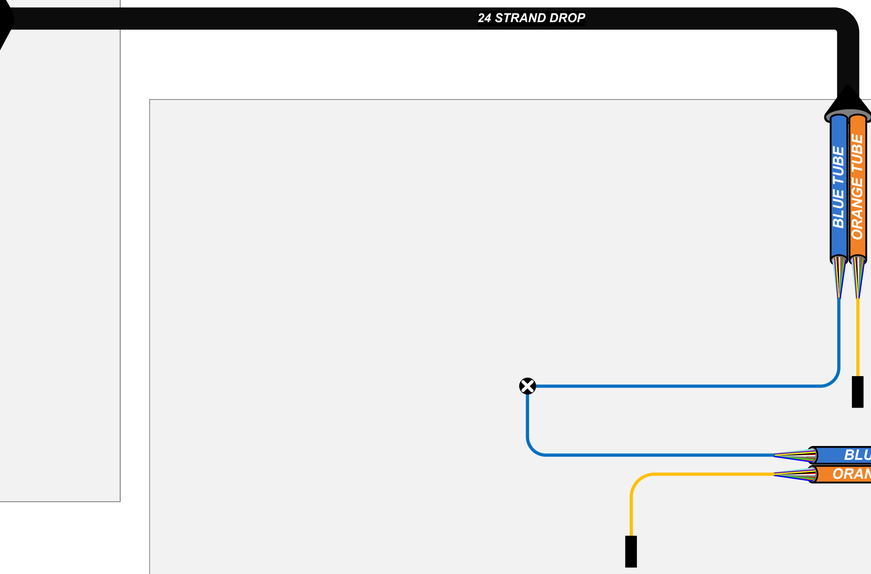


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4029: HUDSON ST. AT N HIGH ST.
SEE SHEET 715



PATCH PANEL ENCLOSURE – 24 TERMINATION



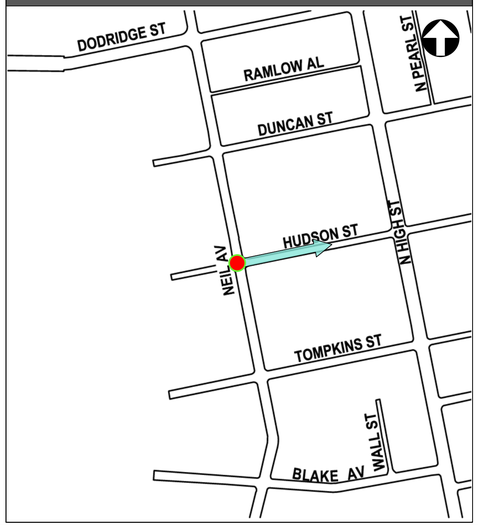
2 Cable Entries
12 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4104

REFER TO SHEET 415 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4104: HUDSON ST. AT NEIL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

716
1000

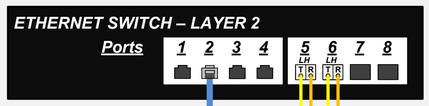
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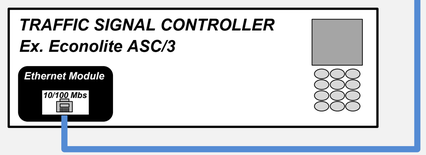
TRAFFIC SIGNAL CABINET ASSEMBLY

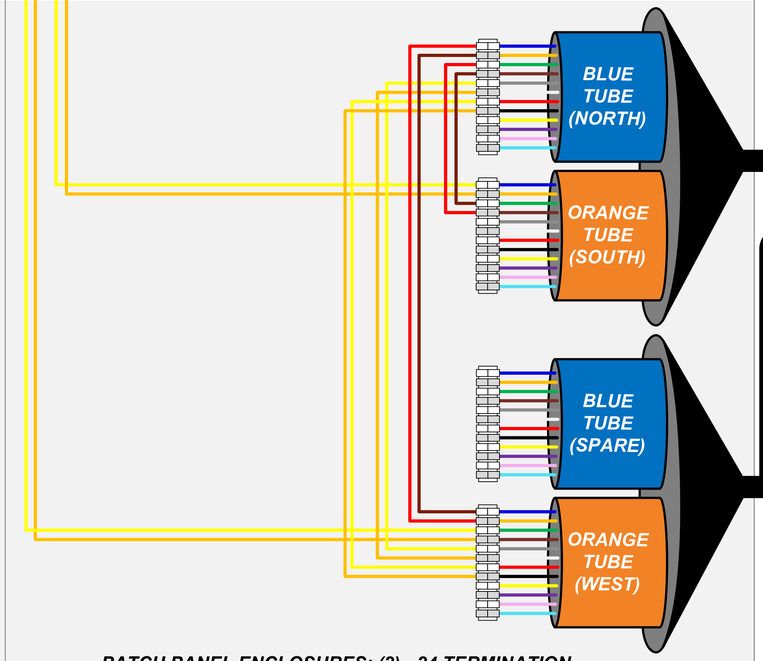
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4054: ARGYLL ST. AT OLENTANGY RIVER RD.
SEE SHEET 762

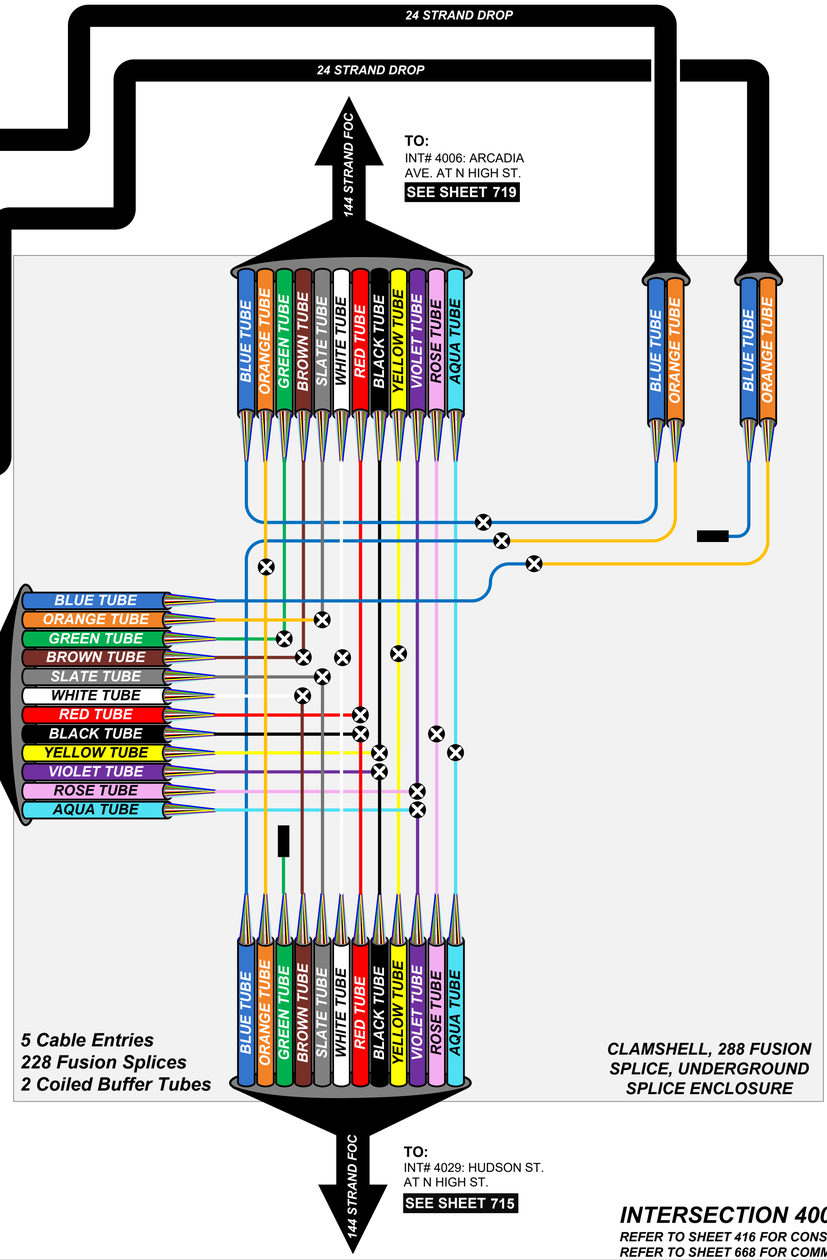
PORT 6: INT# 4028: N HIGH ST. AT PATTERSON AVE.
SEE SHEET 714







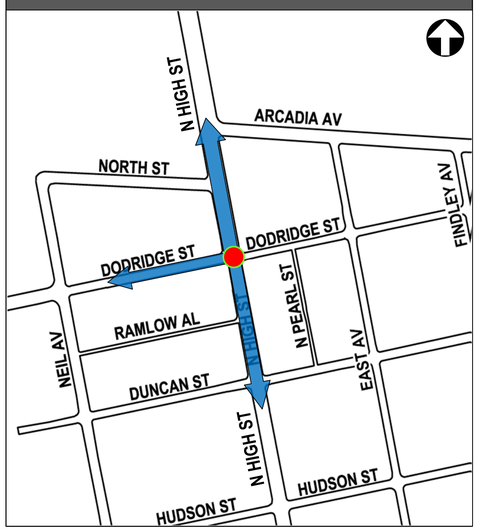
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4007

REFER TO SHEET 416 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

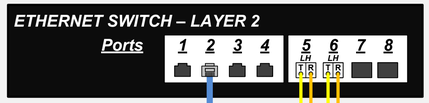
INT# 4007: DODRIDGE ST. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

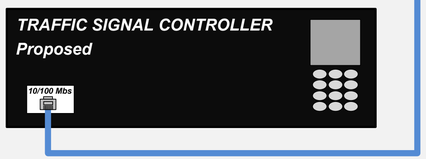
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

717
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TRAFFIC SIGNAL CABINET ASSEMBLY

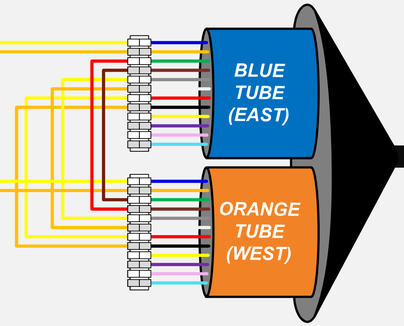


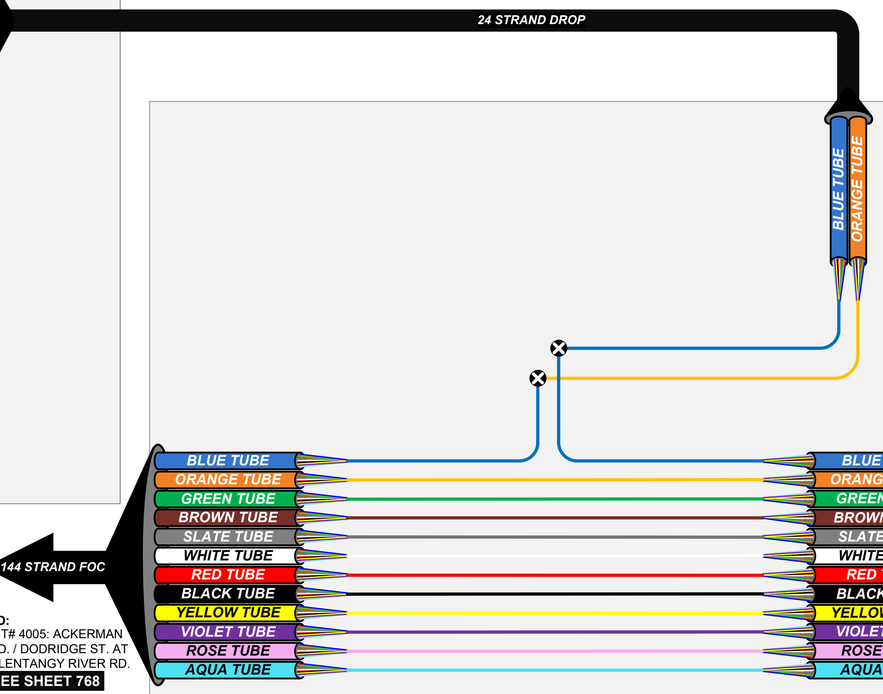


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4006: ARCADIA AVE. AT N HIGH ST.
SEE SHEET 719

PORT 6: INT# 4004: ACKERMAN RD. AT DEFIANCE DR.
SEE SHEET 767





TO:
INT# 4005: ACKERMAN RD. / DODRIDGE ST. AT OLENTANGY RIVER RD.
SEE SHEET 768

TO:
INT# 4007: DODRIDGE ST. AT N HIGH ST.
SEE SHEET 717

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

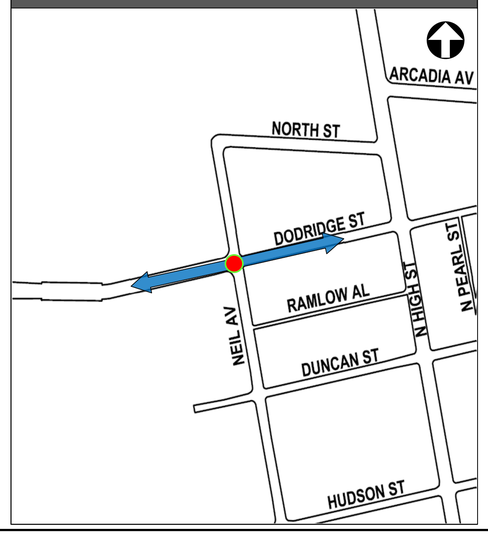
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4008

REFER TO SHEET 418 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4008: DODRIDGE ST. AT NEIL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

718
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 (LH/TR) 6 (LH/TR) 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3

Ethernet Module 10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4008: DODRIDGE ST. AT NEIL AVE.
SEE SHEET 718

PORT 6: INT# 4029: HUDSON ST. AT N HIGH ST.
SEE SHEET 715

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 4009: N HIGH ST.
AT OLENTANGY ST.
SEE SHEET 720

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

TO:
INT# 3025: ARCADIA AVE. AT INDIANOLA AVE.
SEE SHEET 790

144 STRAND FOC

TO:
INT# 4007: DODRIDGE ST. AT N HIGH ST.
SEE SHEET 717

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4006

REFER TO SHEET 420 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4006: ARCADIA AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

719
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 | 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4033: N HIGH ST. AT WEBER RD.
SEE SHEET 722

PORT 6: INT# 4032: KELSO RD. AT N HIGH ST.
SEE SHEET 721

BLUE TUBE (NORTH)

ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP

144 STRAND FOC

TO:
INT# 4032: KELSO RD.
AT N HIGH ST.
SEE SHEET 721

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

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

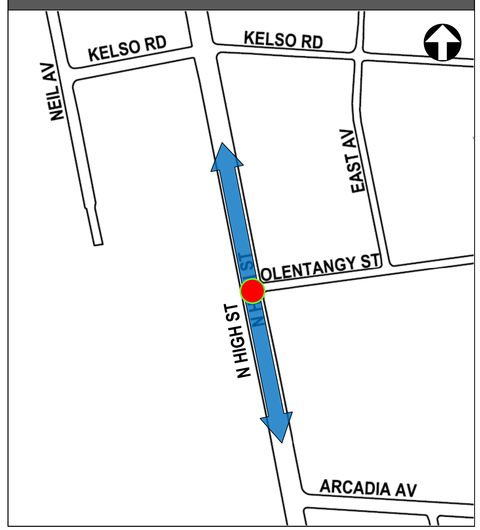
144 STRAND FOC

TO:
INT# 4006: ARCADIA AVE. AT N HIGH ST.
SEE SHEET 719

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4009
REFER TO SHEET 421 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

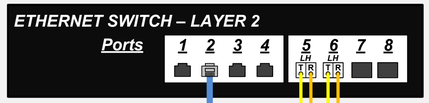
INT# 4009: N HIGH ST. AT OLENTANGY ST.
COMMUNICATIONS DIAGRAM

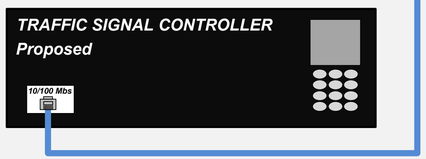
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

720
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TRAFFIC SIGNAL CABINET ASSEMBLY

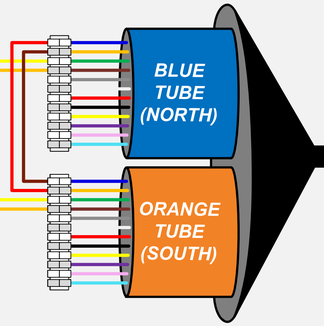




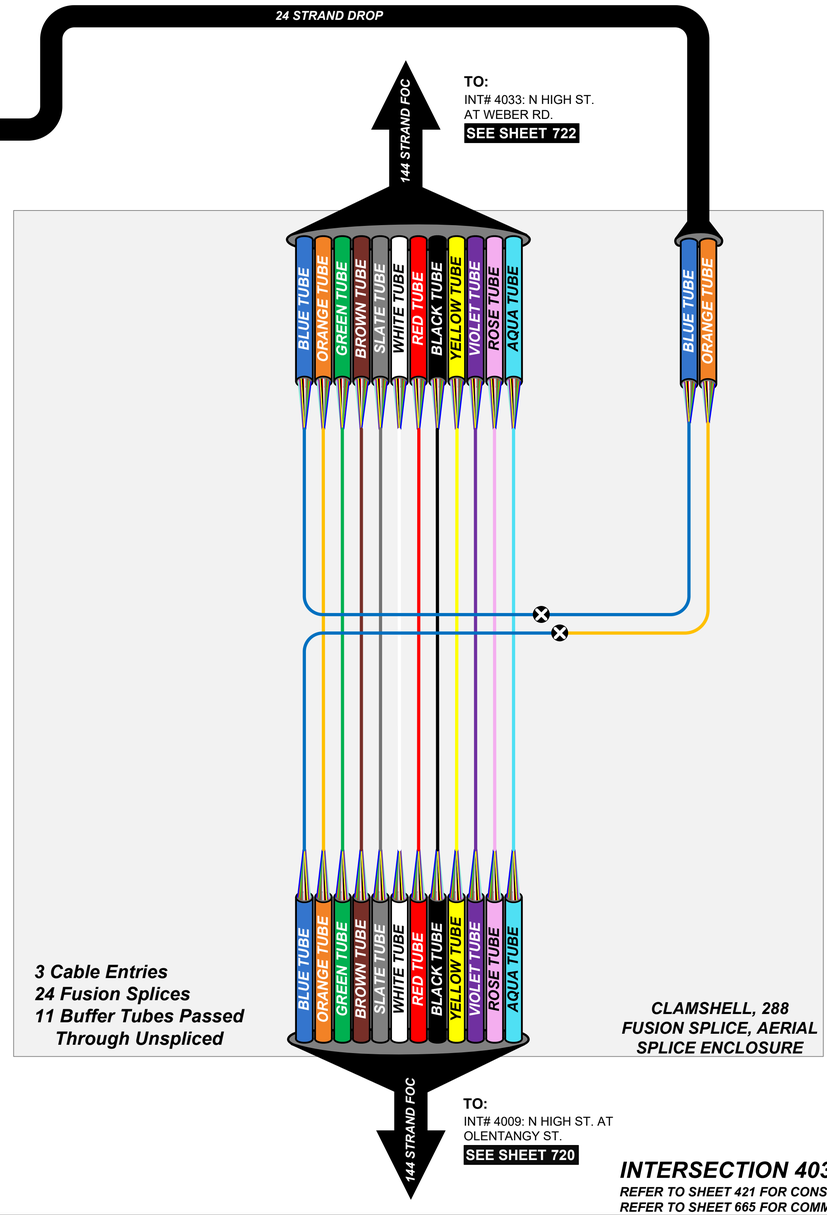
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4034: N HIGH ST. AT PACEMONT RD.
SEE SHEET 723

PORT 6: INT# 4009: N HIGH ST. AT OLENTANGY ST.
SEE SHEET 720



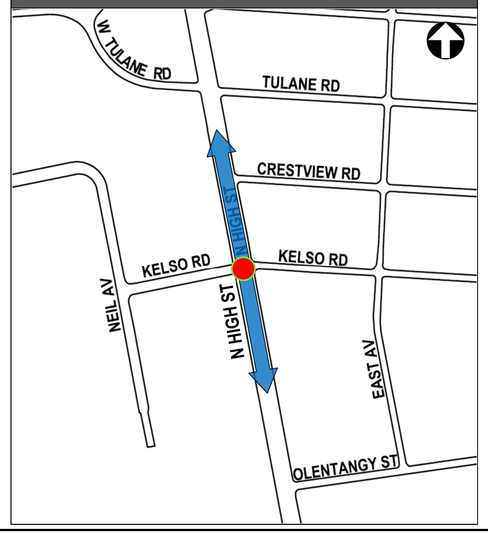
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4032

REFER TO SHEET 421 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4032: KELSO RD. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

721
1000

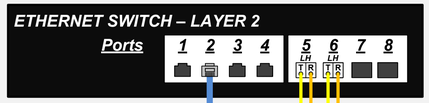
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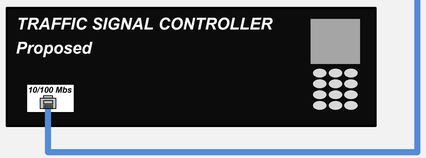
TRAFFIC SIGNAL CABINET ASSEMBLY

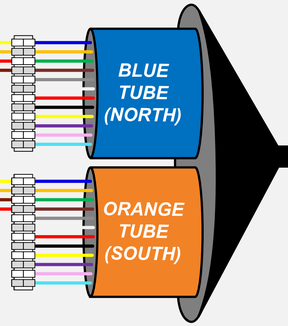
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4035: COMO AVE. AT N HIGH ST.
SEE SHEET 724

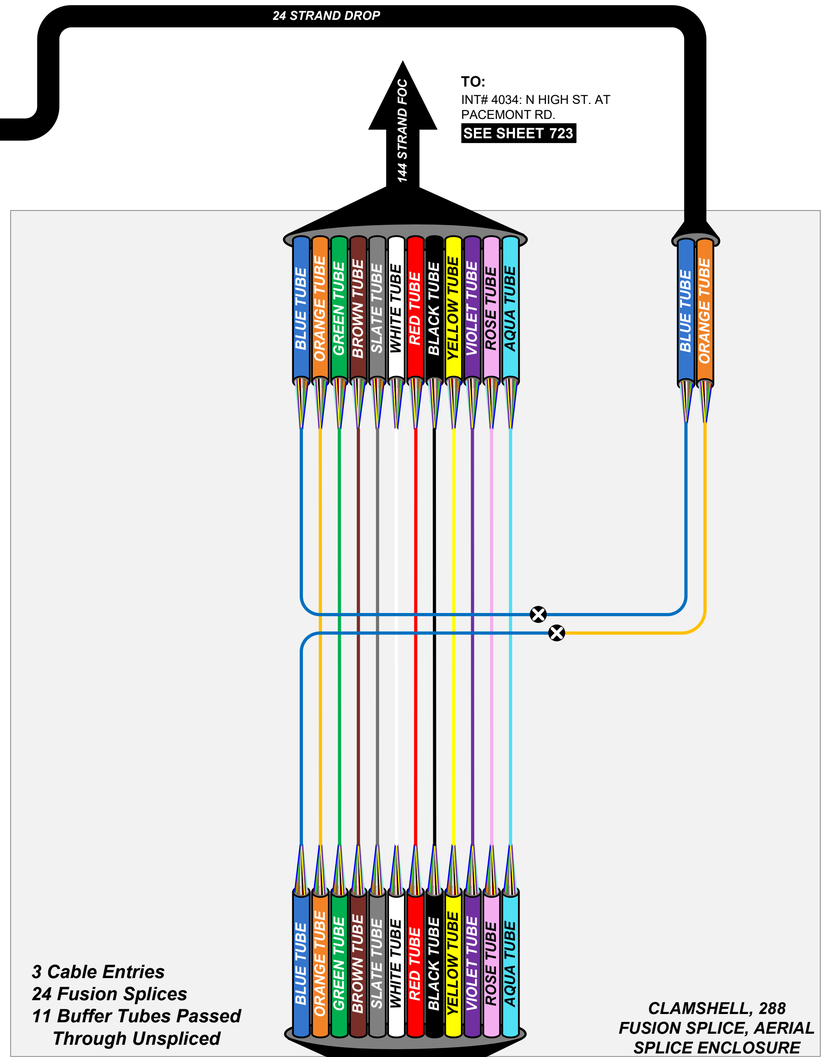
PORT 6: INT# 4009: N HIGH ST. AT OLENTANGY ST.
SEE SHEET 720







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4034: N HIGH ST. AT PACEMONT RD.
SEE SHEET 723

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 4032: KELSO RD. AT N HIGH ST.
SEE SHEET 721

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4033

REFER TO SHEET 422 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4033: N HIGH ST. AT WEBER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

722
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 | 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4036: N HIGH ST. AT NORTH BROADWAY
SEE SHEET 725

PORT 6: INT# 4032: KELSO RD. AT N HIGH ST.
SEE SHEET 721

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

24 STRAND DROP

TO:
INT# 4035: COMO AVE.
AT N HIGH ST.
SEE SHEET 724

144 STRAND FOC

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

PATCH PANEL ENCLOSURE – 24 TERMINATION

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

144 STRAND FOC

TO:
INT# 4033: N HIGH ST. AT WEBER RD.
SEE SHEET 722

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4034

REFER TO SHEET 423 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4034: N HIGH ST. AT PACEMONT RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

723
1000

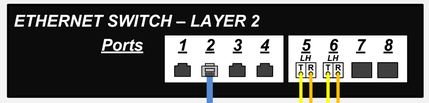
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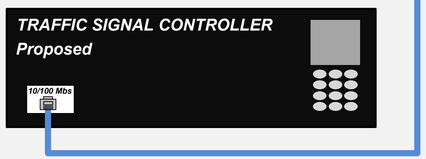
TRAFFIC SIGNAL CABINET ASSEMBLY

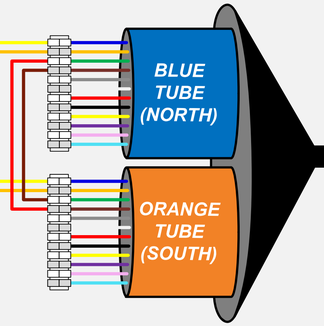
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4064: MILTON AVE. AT W NORTH BROADWAY
SEE SHEET 782

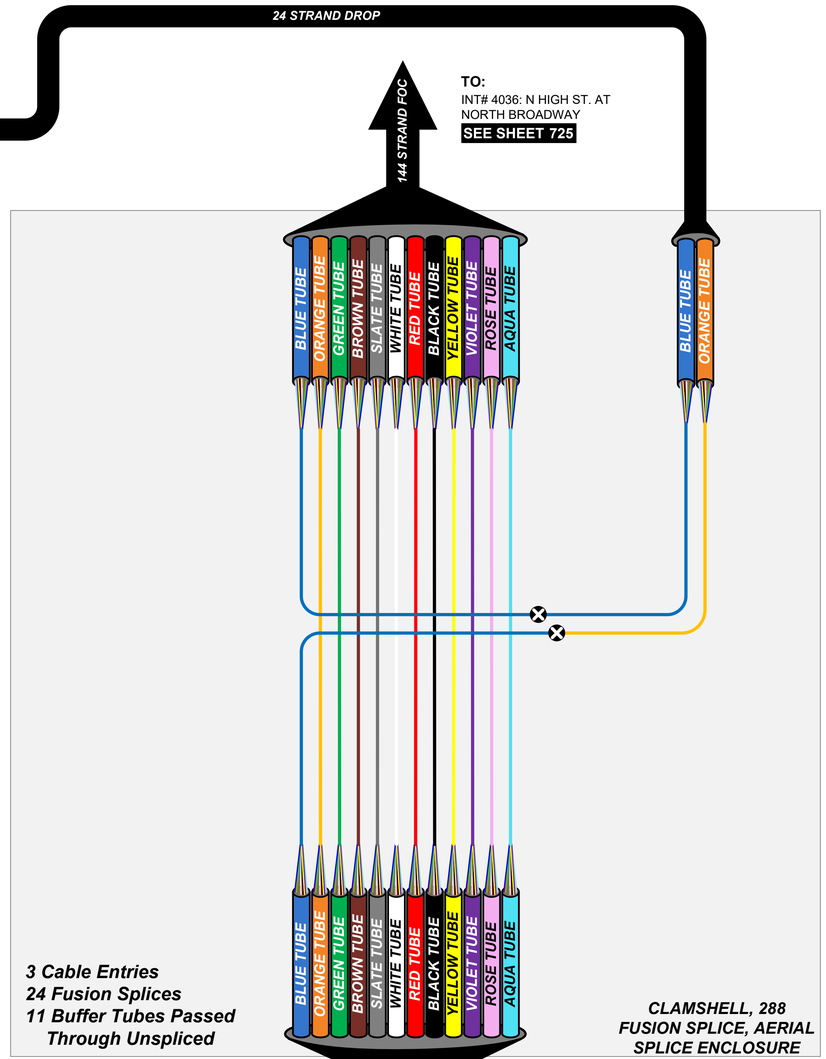
PORT 6: INT# 4033: N HIGH ST. AT WEBER RD.
SEE SHEET 722







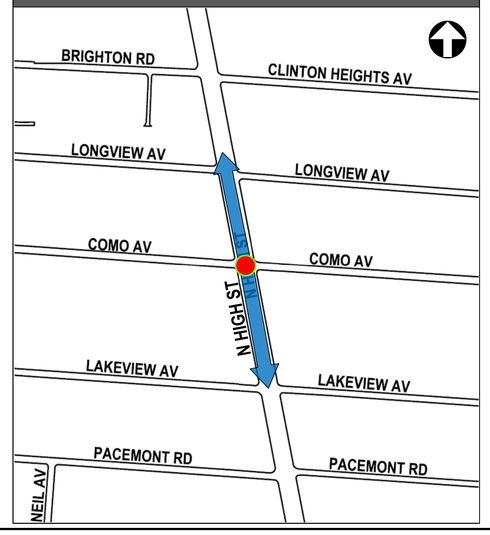
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4035

REFER TO SHEET 424 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4035: COMO AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

724
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3047: E NORTH BROADWAY AT INDIANOLA AVE.
SEE SHEET 797
PORT 6: INT# 4034: N HIGH ST. AT PACEMONT RD.
SEE SHEET 723

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

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

COMPOSITE CCTV CABLE

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

PROPOSED CCTV

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 4037: N HIGH ST. AT OAKLAND PARK AVE.
SEE SHEET 726

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

144 STRAND FOC

TO:
INT# 4064: MILTON AVE. AT W NORTH BROADWAY
SEE SHEET 782

144 STRAND FOC

TO:
INT# 3069: CALUMET ST. AT E NORTH BROADWAY
SEE SHEET 783

6 Cable Entries
300 Fusion Splices
2 Coiled Buffer Tubes

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

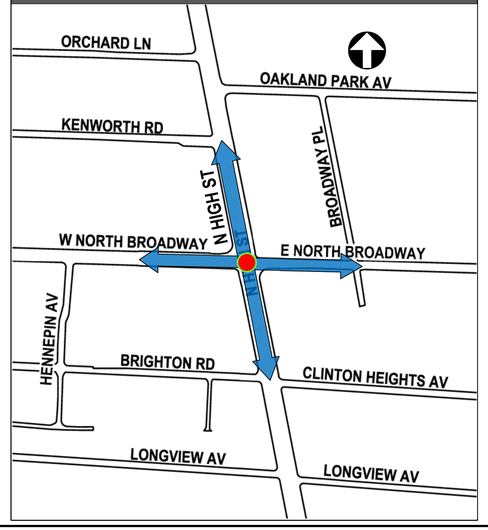
144 STRAND FOC

TO:
INT# 4035: COMO AVE. AT N HIGH ST.
SEE SHEET 724

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4036

REFER TO SHEET 426 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

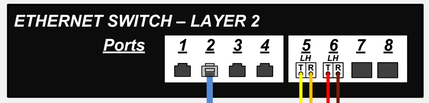
INT# 4036: N HIGH ST. AT NORTH BROADWAY
COMMUNICATIONS DIAGRAM

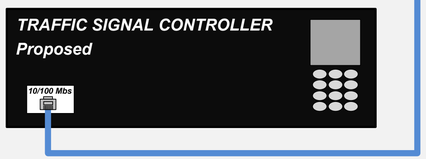
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

725
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

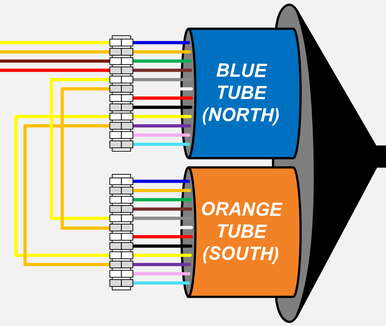




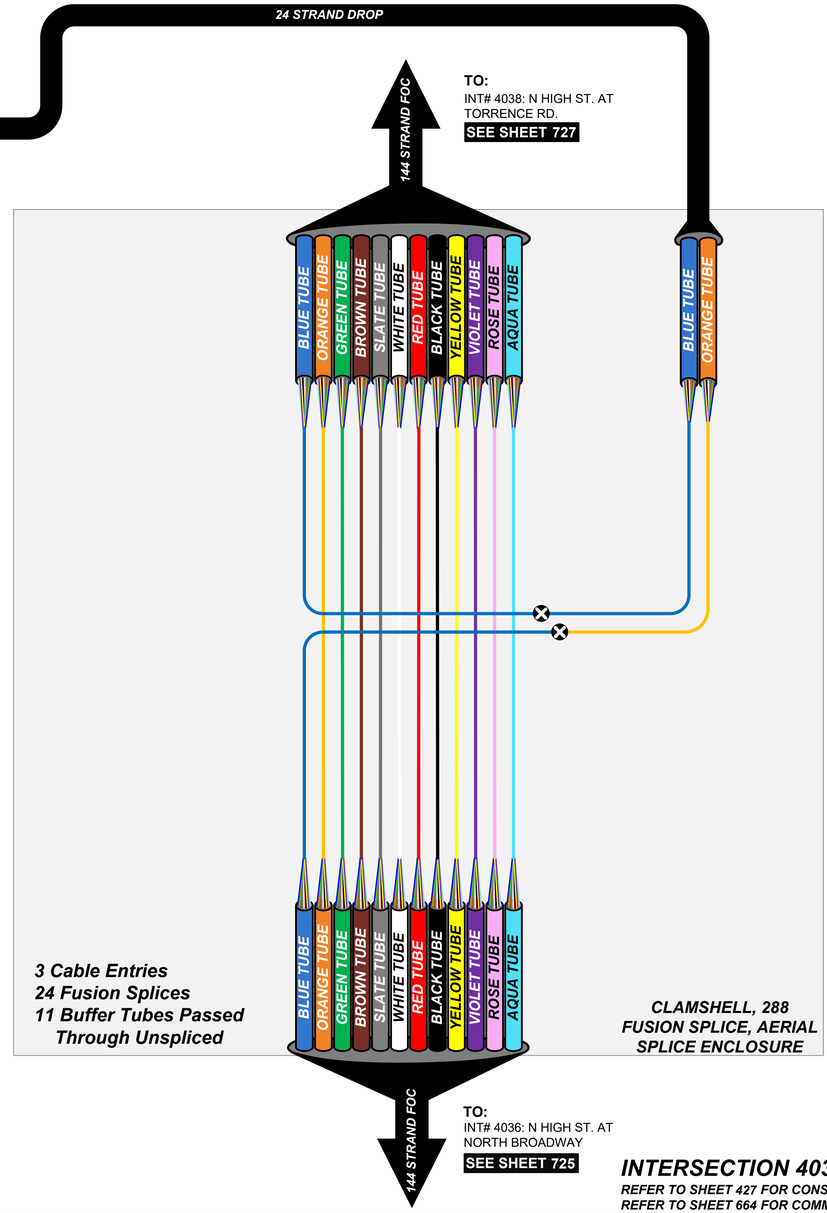
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4040: ACTON RD. / HOLLENBACK RD. AT N HIGH ST.
SEE SHEET 728

PORT 6: INT# 4038: N HIGH ST. AT TORRENCE RD.
SEE SHEET 727



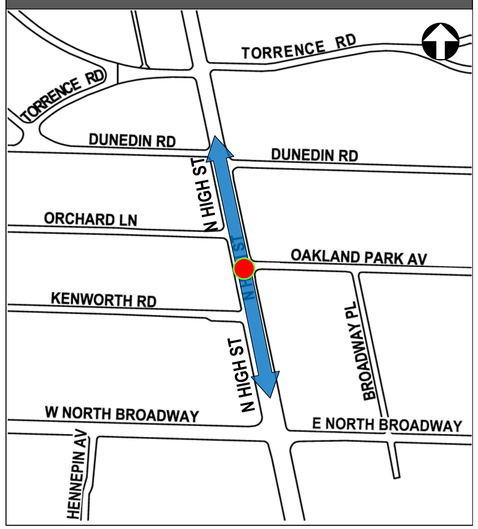
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4037

REFER TO SHEET 427 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

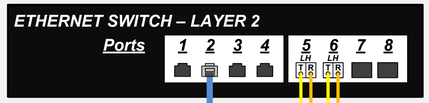
CIP: 540007 - 100006
PID NUMBER: 82573

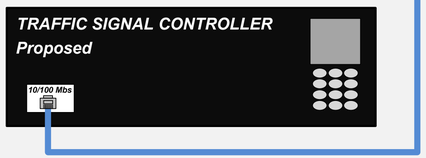
INT# 4037: N HIGH ST. AT OAKLAND PARK AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

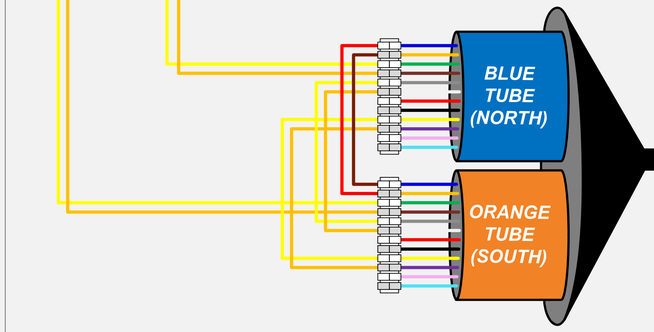




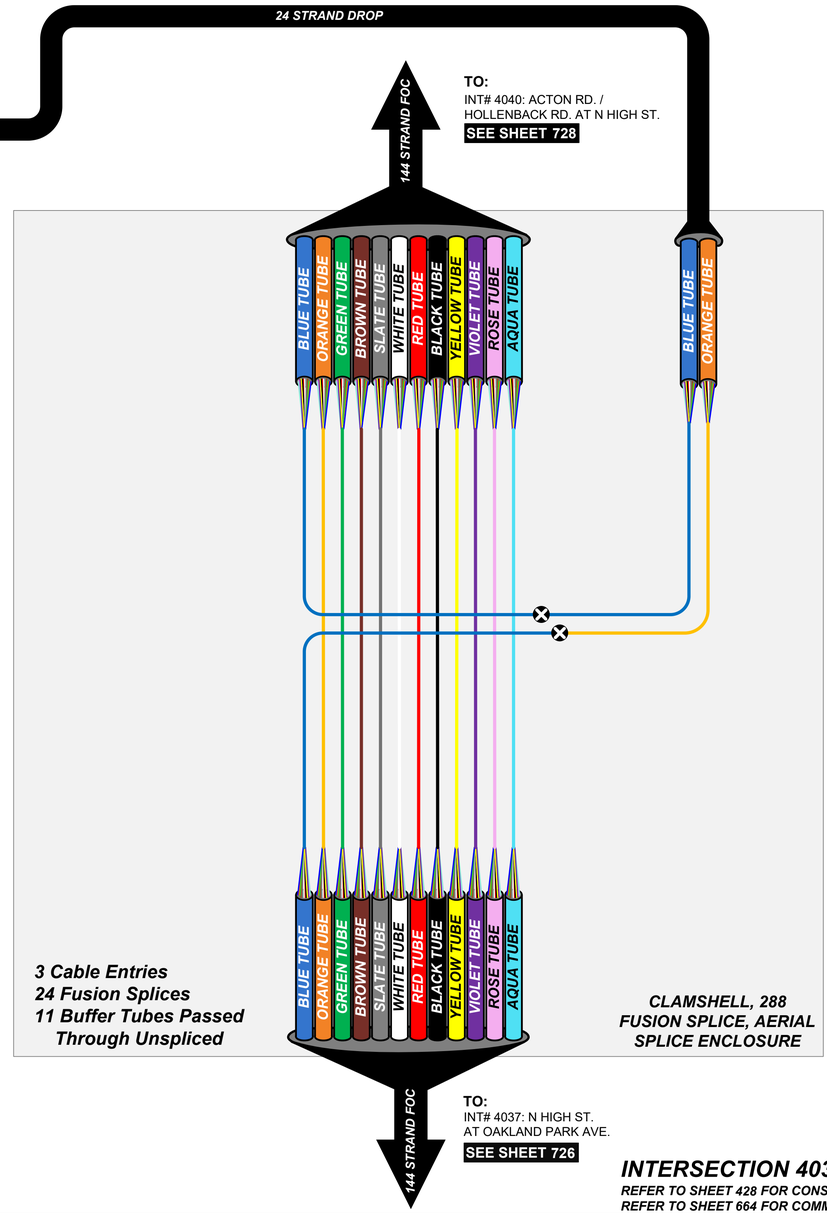
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4042: COOKE RD. AT N HIGH ST.
SEE SHEET 729

PORT 6: INT# 4037: N HIGH ST. AT OAKLAND PARK AVE.
SEE SHEET 726



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4038

REFER TO SHEET 428 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

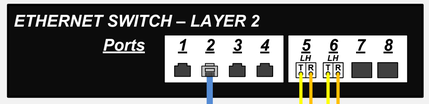
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PID NUMBER: 82573

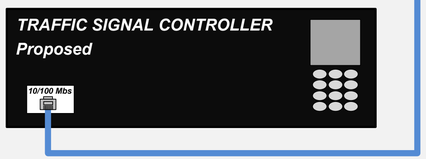
INT# 4038: N HIGH ST. AT TORRENCE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

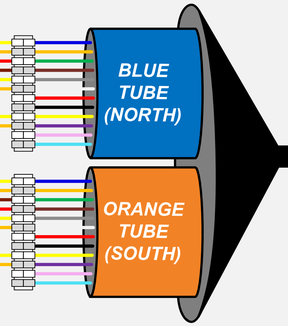




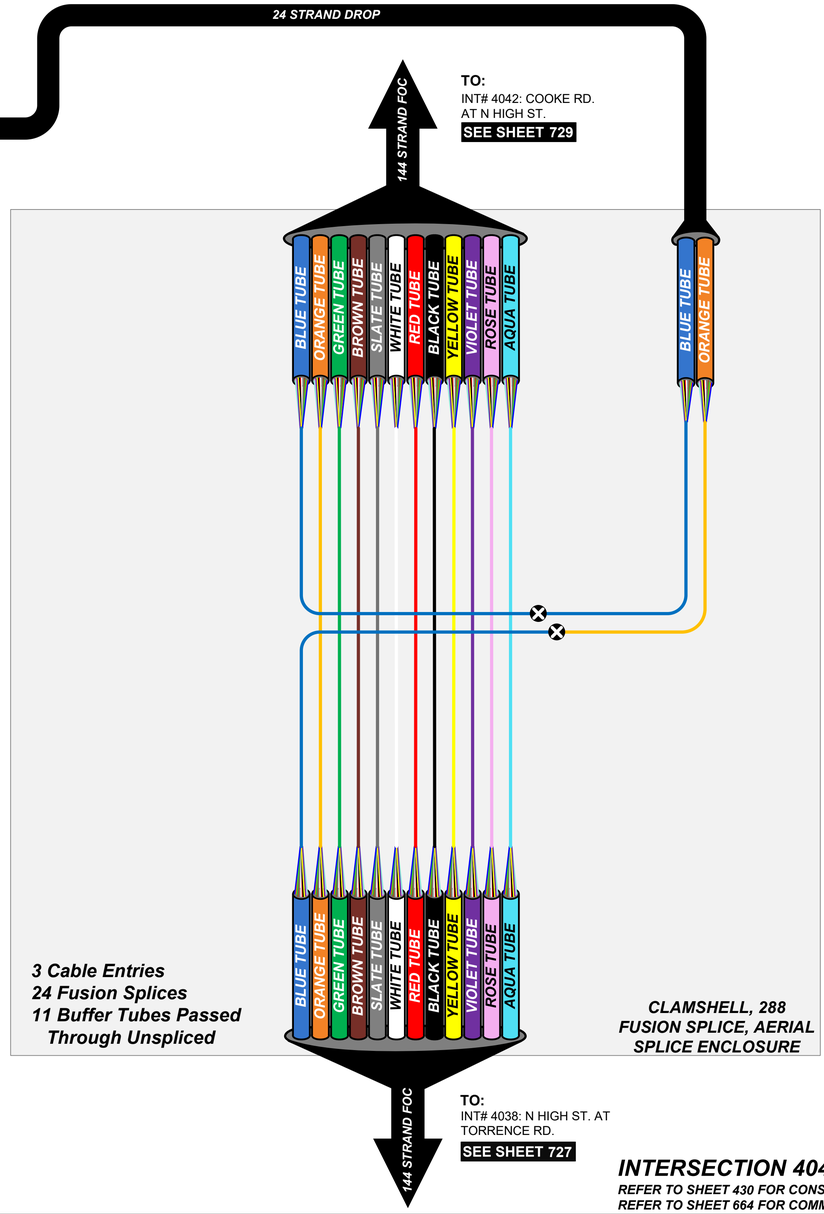
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4043: E HENDERSON RD./ W HENDERSON RD. AT N HIGH ST.
SEE SHEET 730

PORT 6: INT# 4037: N HIGH ST. AT OAKLAND PARK AVE.
SEE SHEET 726



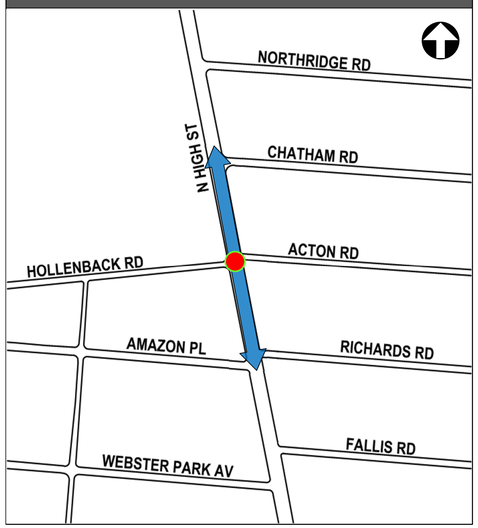
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4040

REFER TO SHEET 430 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4040: ACTON RD. / HOLLENBACK RD. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

728
1000

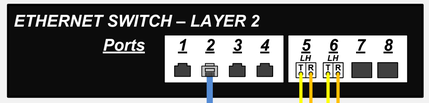
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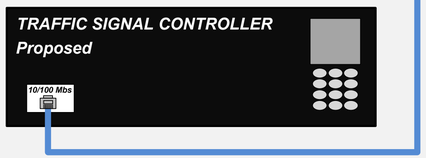
TRAFFIC SIGNAL CABINET ASSEMBLY

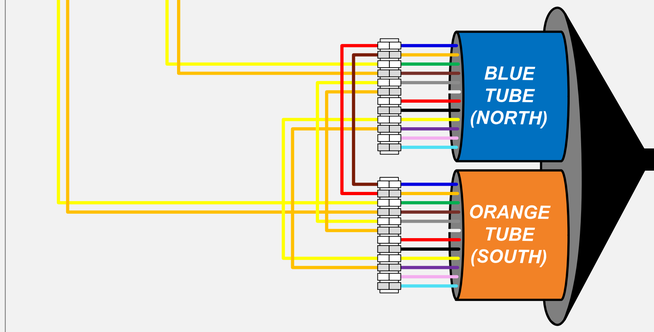
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4045: N HIGH ST. AT WEISHEIMER RD.
SEE SHEET 733

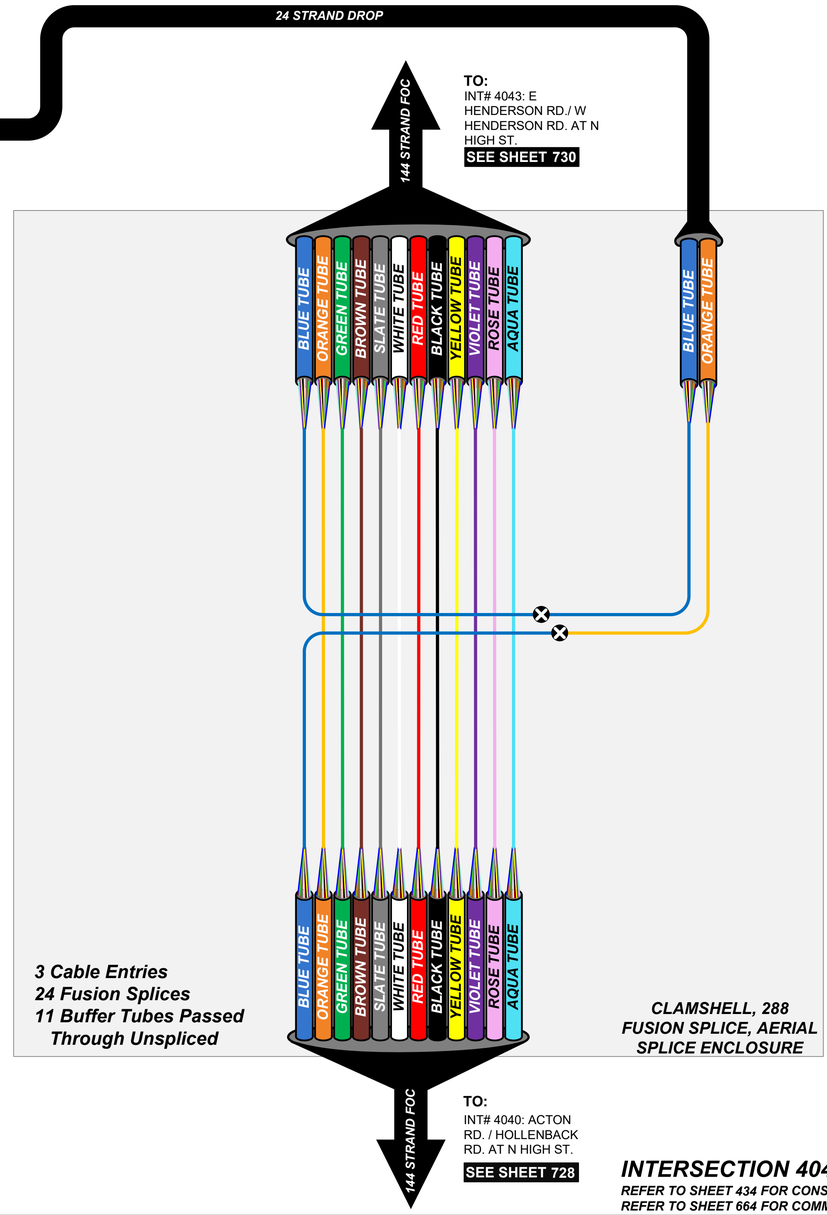
PORT 6: INT# 4038: N HIGH ST. AT TORRENCE RD.
SEE SHEET 727







PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4042

REFER TO SHEET 434 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4042: COOKE RD. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

729
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3

Ethernet Module (10/100 Mbs)

CCTV FIELD BOX

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

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4040: ACTON RD. / HOLLENBACK RD. AT N HIGH ST.
SEE SHEET 728

PORT 6: EXISTING COMMUNICATION NODE# 315007.8:
SR-315 AT HENDERSON RD.
SEE SHEET 988

COMPOSITE CCTV CABLE → PROPOSED CCTV

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (SPARE)
ORANGE TUBE (WEST)

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 4044: DOMINION BLVD. AT N HIGH ST.
SEE SHEET 732

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

TO:
INT# 4108: HENDERSON RD. AT OLENTANGY BLVD.
SEE SHEET 731

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

144 STRAND FOC

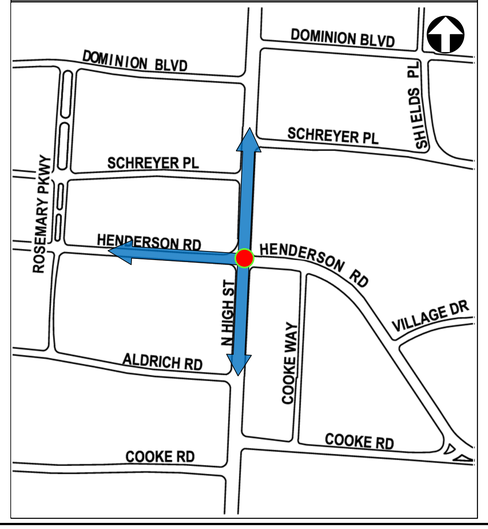
TO:
INT# 4042: COOKE RD. AT N HIGH ST.
SEE SHEET 729

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4043

REFER TO SHEET 435 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4043: E HENDERSON RD./ W HENDERSON RD. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

730
1000

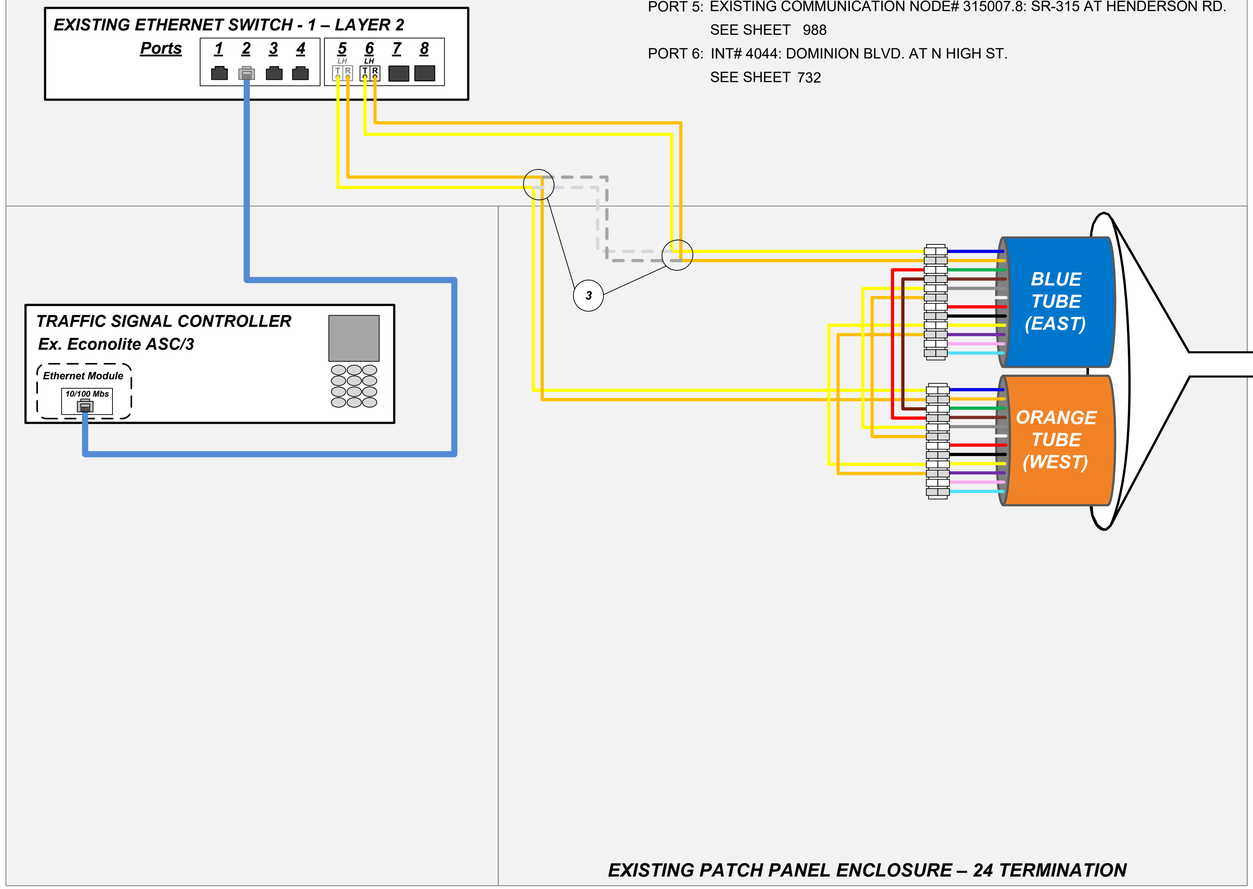
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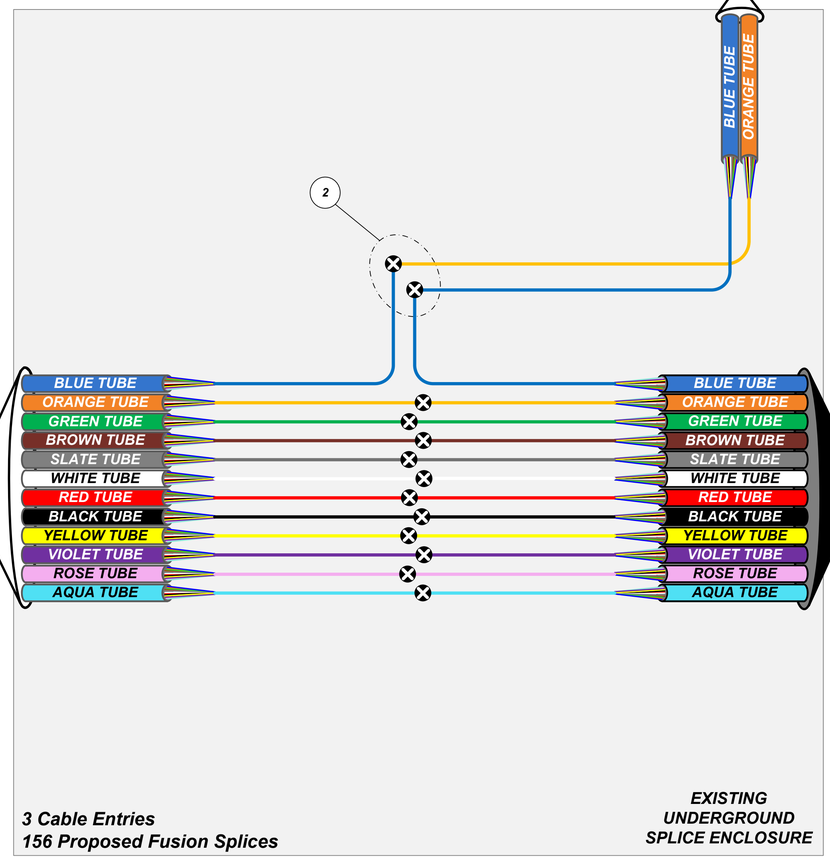
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 315007.8: SR-315 AT HENDERSON RD.
SEE SHEET 988

PORT 6: INT# 4044: DOMINION BLVD. AT N HIGH ST.
SEE SHEET 732

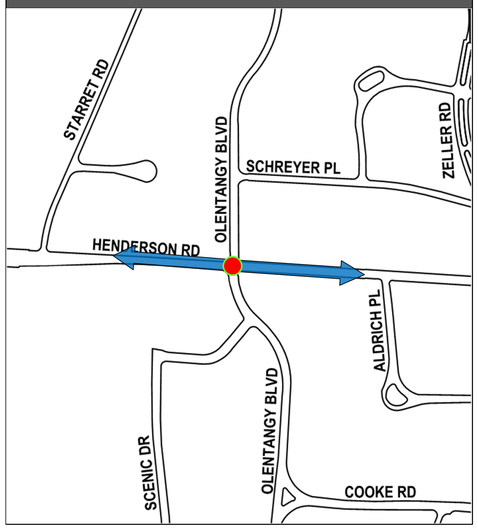




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

FOR EXISTING WORK SHOWN ON THIS SHEET REFER TO CTSS PHASE B PROJECT 2762-E

[2] REMOVE EXISTING SPLICING BETWEEN 24 STRAND DROP CABLE AND 144 STRAND CABLE. RESPLICE THE CABLES AS SHOWN IN THE DIAGRAM ABOVE

[3] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

INTERSECTION 4108

REFER TO SHEET 436 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4108: HENDERSON RD. AT OLENTANGY BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

731
1000

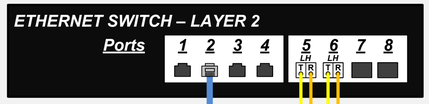
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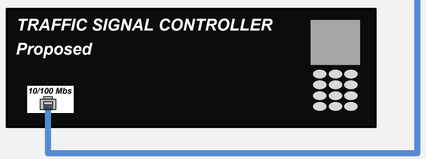
TRAFFIC SIGNAL CABINET ASSEMBLY

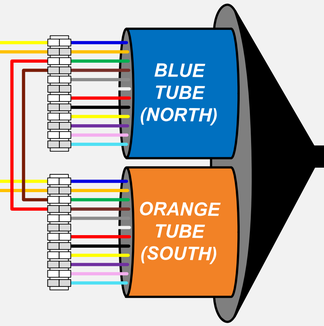
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4047: MORSE RD. AT N HIGH ST.
SEE SHEET 734

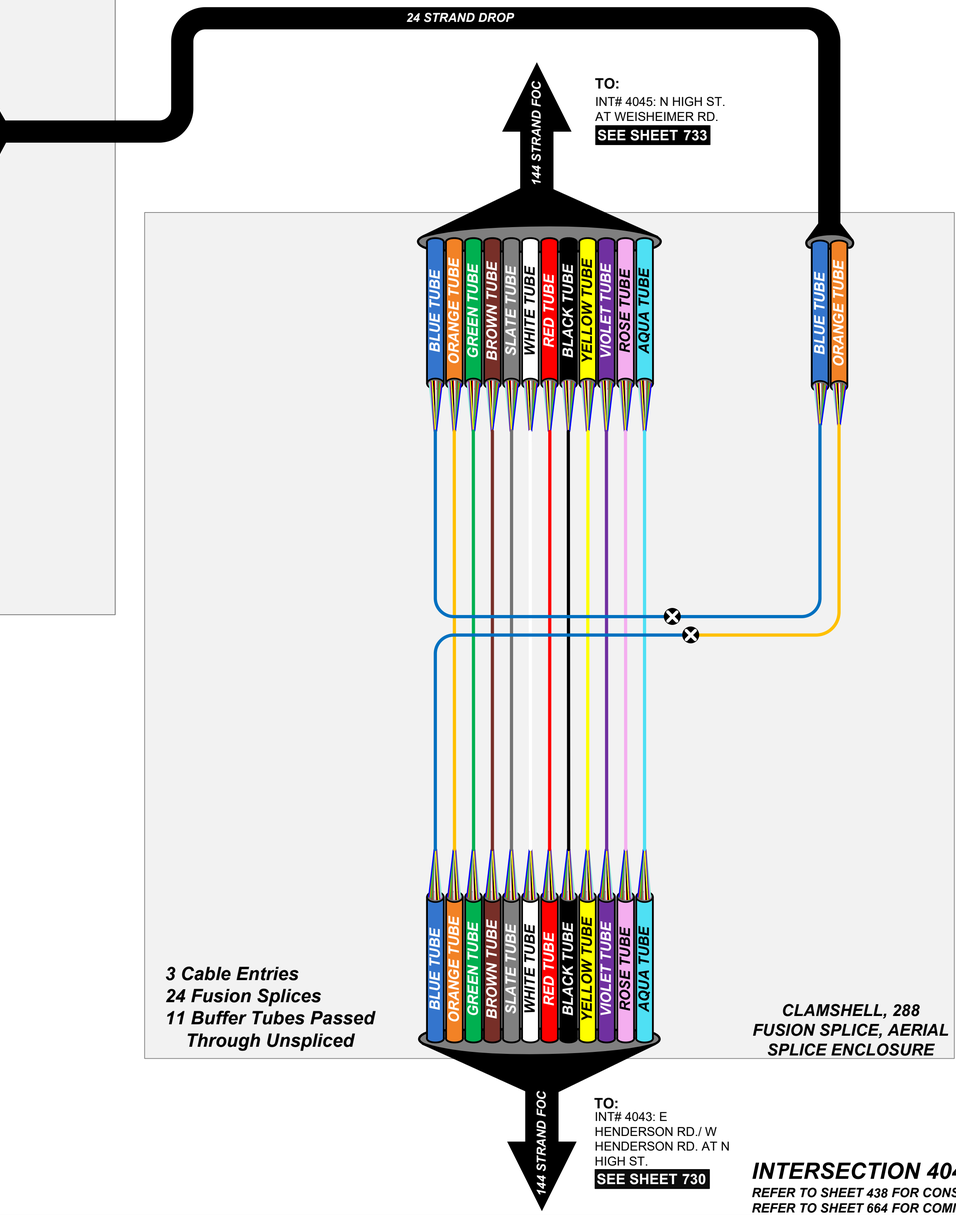
PORT 6: INT# 4108: HENDERSON RD. AT OLENTANGY BLVD.
SEE SHEET 731







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4045: N HIGH ST.
AT WEISHEIMER RD.
SEE SHEET 733

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

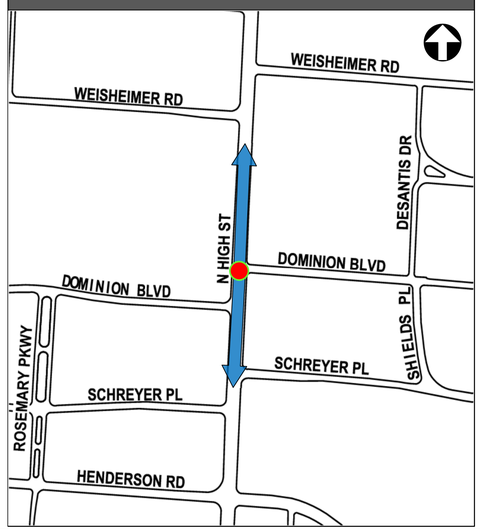
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 4043: E HENDERSON RD./ W HENDERSON RD. AT N HIGH ST.
SEE SHEET 730

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4044

REFER TO SHEET 438 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

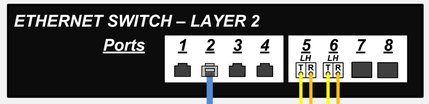
INT# 4044: DOMINION BLVD. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

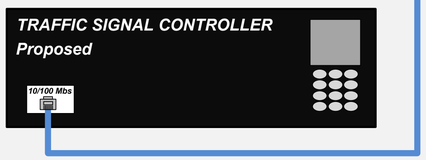
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

732
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

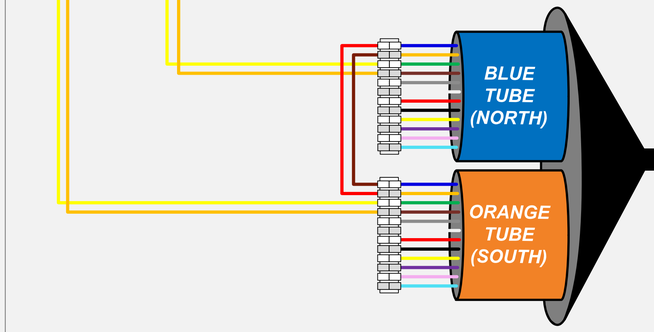




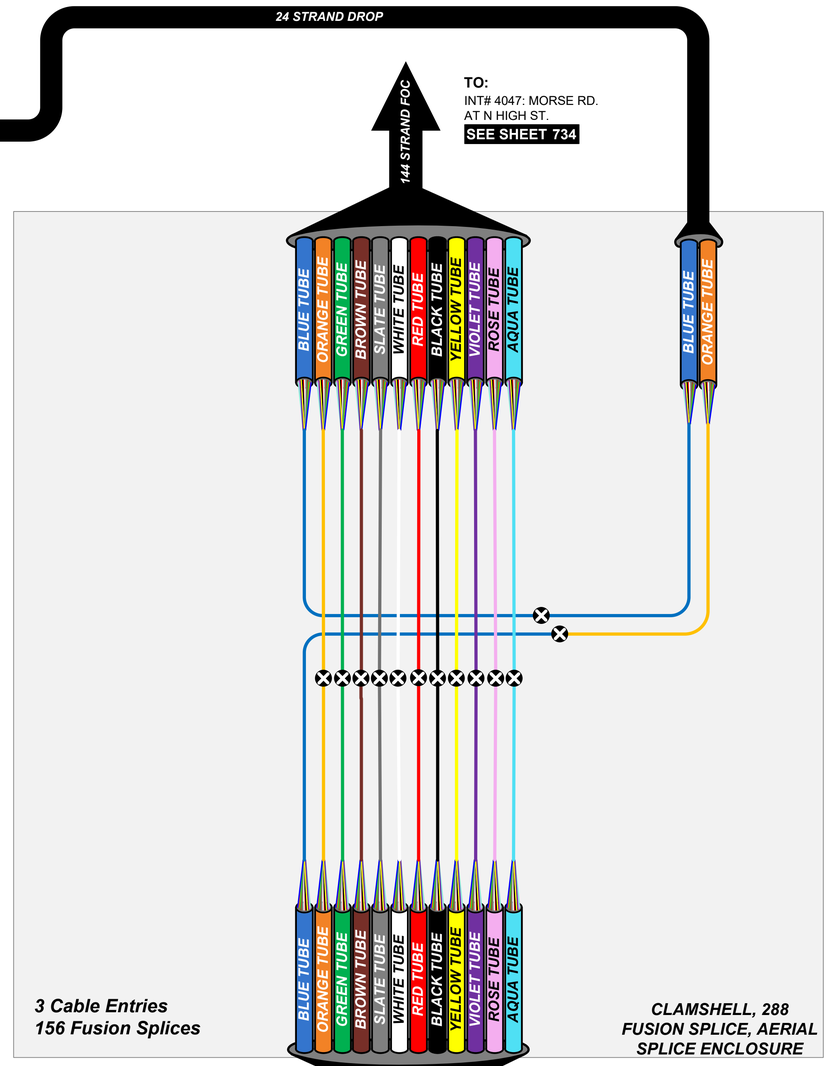
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 071116.2: I-71 AT MORSE RD.
SEE SHEET 999

PORT 6: INT# 4042: COOKE RD. AT N HIGH ST.
SEE SHEET 729



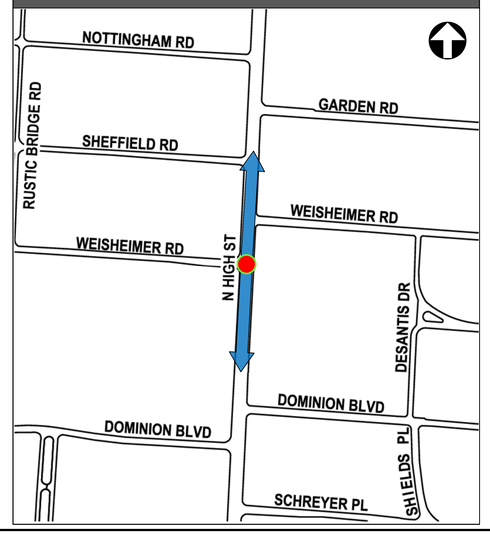
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

INTERSECTION 4045

REFER TO SHEET 439 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4045: N HIGH ST. AT WEISHEIMER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4049: FENWAY RD. AT N HIGH ST.
SEE SHEET 738

PORT 6: INT# 4044: DOMINION BLVD. AT N HIGH ST.
SEE SHEET 732

ETHERNET SWITCH – LAYER 2
Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

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

COMPOSITE CCTV CABLE

PROPOSED CCTV

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 4048: GRACELAND BLVD. AT N HIGH ST.
SEE SHEET 737

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

144 STRAND FOC

TO:
INT# N005: INDIANOLA AVE. AT MORSE RD.
SEE SHEET 735

144 STRAND FOC

TO:
INT# 4045: N HIGH ST. AT WEISHEIMER RD.
SEE SHEET 733

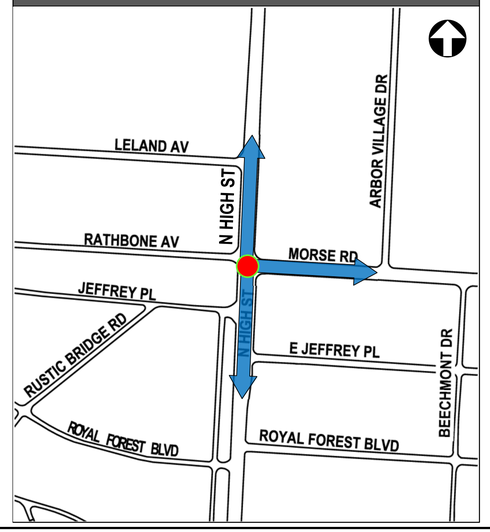
5 Cable Entries
192 Fusion Splices
8 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4047

REFER TO SHEET 442 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

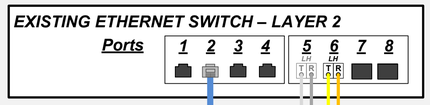
INT# 4047: MORSE RD. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

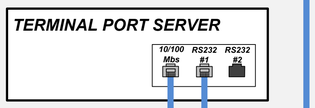
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

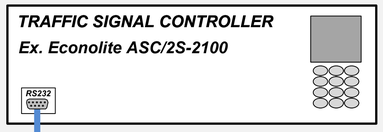
734
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TRAFFIC SIGNAL CABINET ASSEMBLY



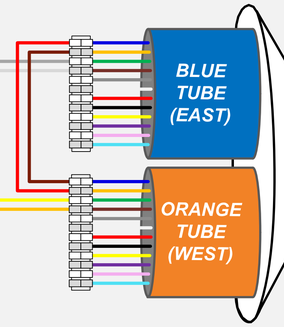




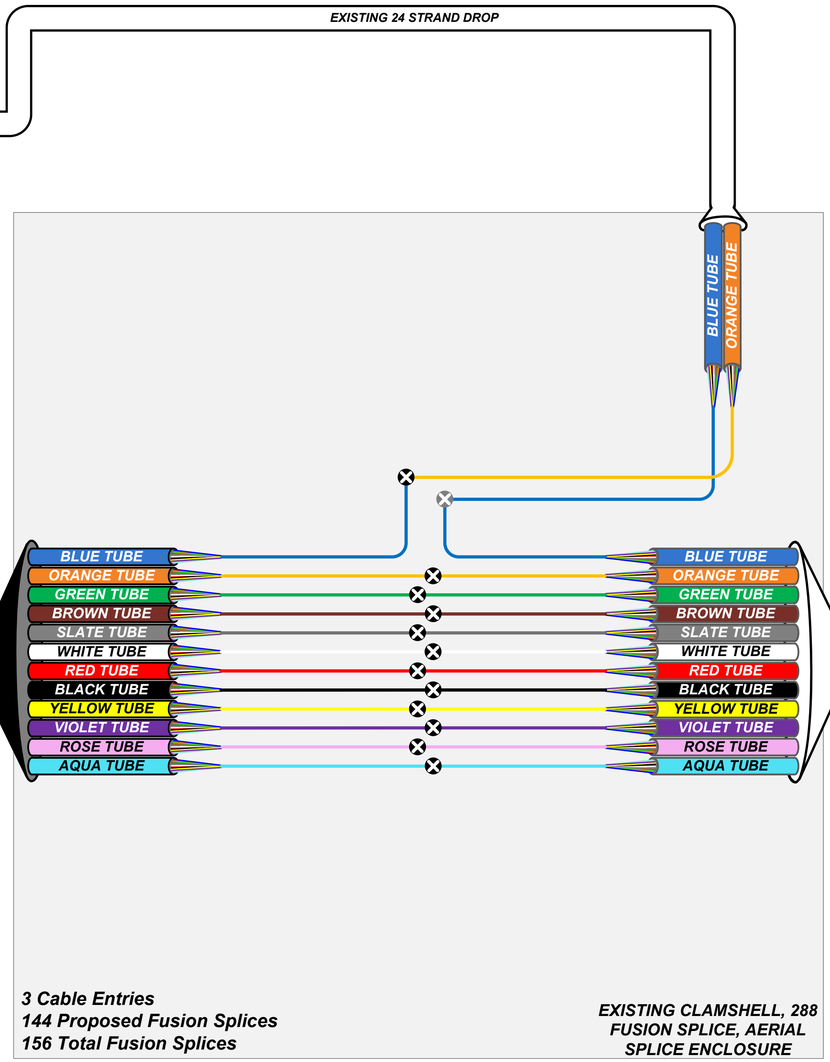
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 071116.2: I-71 AT MORSE RD.
SEE SHEET 999

PORT 6: INT# 4048: GRACELAND BLVD. AT N HIGH ST.
SEE SHEET 737



EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION



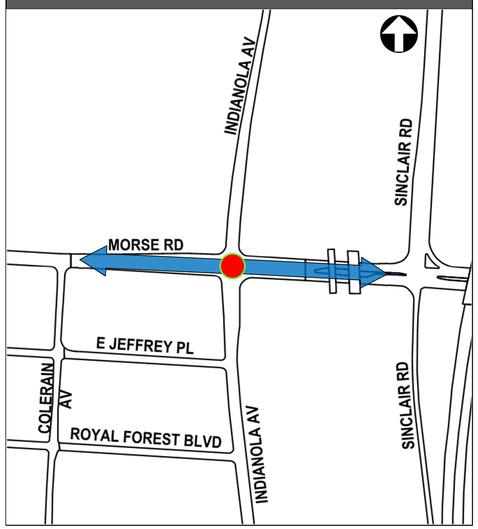
3 Cable Entries
144 Proposed Fusion Splices
156 Total Fusion Splices

EXISTING CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

FOR EXISTING WORK SHOWN REFER TO PROJECT CTSS PHASE B DR. E 2762

INTERSECTION N005

REFER TO SHEET 450 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 667 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# N005: INDIANOLA AVE. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

735
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 | 5 LH T R | 6 LH T R | 7 LH T R | 8 LH T R

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

NEW ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 071116.2: I-71 AT MORSE RD.
SEE SHEET 999

PORT 6: EXISTING CONNECTION TO INT# N046: EVANSWOOD DR. AT MORSE RD.

PORT 7: (Remove) EXISTING CONNECTION TO INT# N005: INDIANOLA AVE. AT MORSE RD. SEE SHEET 735

PORT 8: EXISTING CCTV: MORSE RD. AT IR-71.

BLUE TUBE (NORTH)
ORANGE TUBE (EAST)
BLUE TUBE (WEST)
ORANGE TUBE (SPARE)
BLUE TUBE (CCTV)
ORANGE TUBE (SPARE)

1

EXISTING 24 STRAND DROP
EXISTING 24 STRAND DROP
EXISTING 24 STRAND DROP

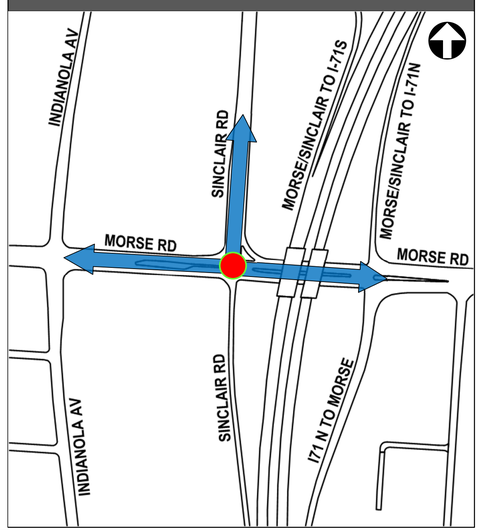
EXISTING PATCH PANEL ENCLOSURE: (2) – 24 TERMINATION

TO:
EXISTING SPLICE ENCLOSURE
AT INT# N007: MORSE RD. AT
SINCLAIR RD./IR-71 SB RAMPS

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

[1] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

INTERSECTION N007
REFER TO SHEET 667 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# N007: MORSE RD. AT SINCLAIR RD./I-71 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

736
1000

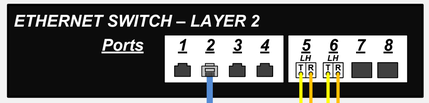
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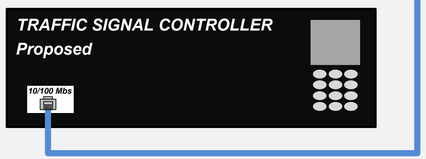
TRAFFIC SIGNAL CABINET ASSEMBLY

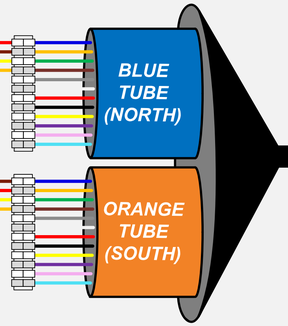
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4050: KANAWHA AVE. AT N HIGH ST.
SEE SHEET 739

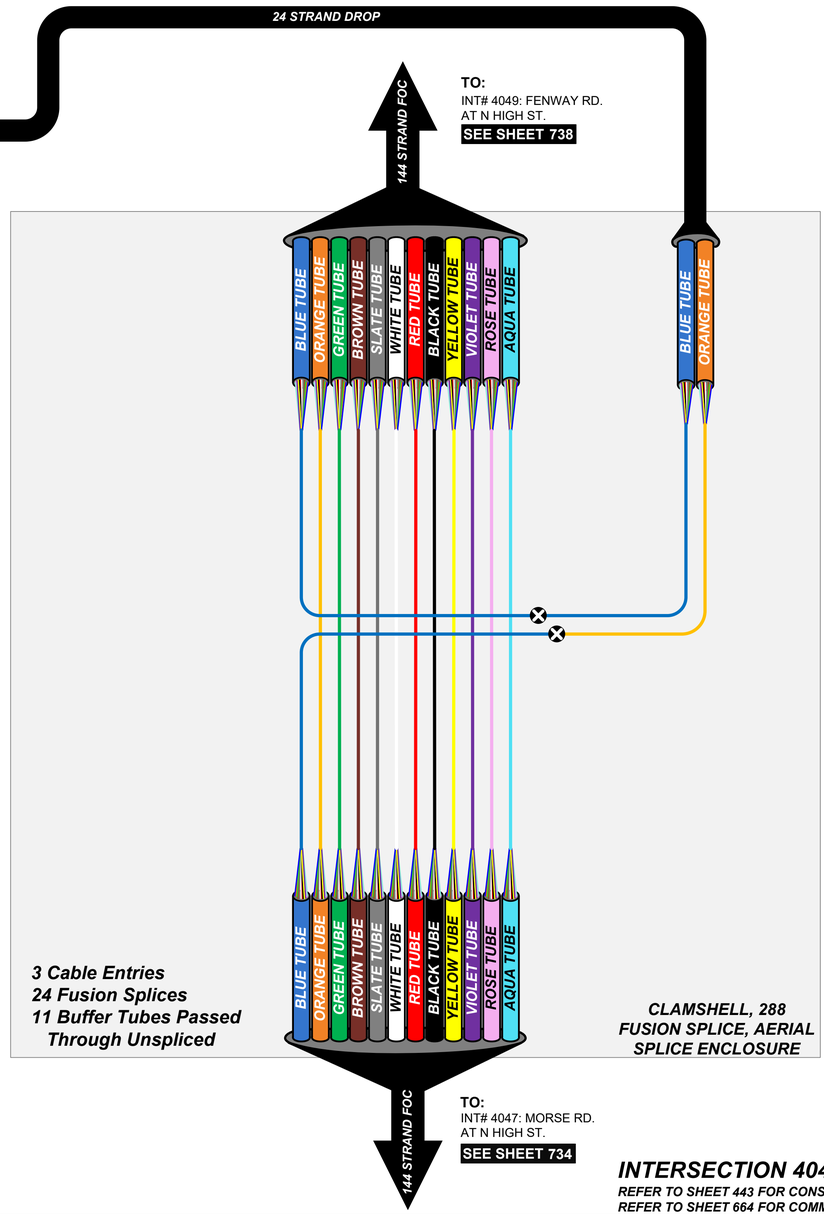
PORT 6: INT# N005: INDIANOLA AVE. AT MORSE RD.
SEE SHEET 735







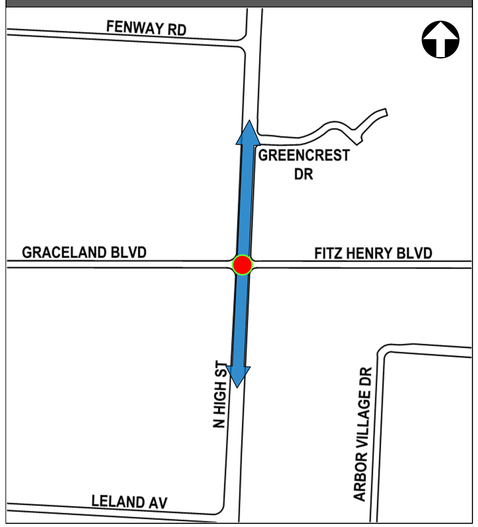
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4048

REFER TO SHEET 443 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

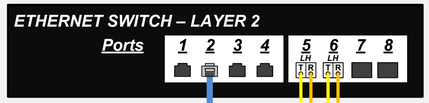
CIP: 540007 - 100006
PID NUMBER: 82573

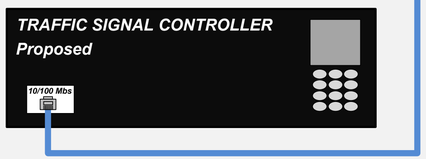
INT# 4048: GRACELAND BLVD. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\734-746.vsd - 4048 layout ~ last saved by: skoganti 3/31/2020 4:44:24 PM ~ printed: 3/31/2020 5:06:22 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

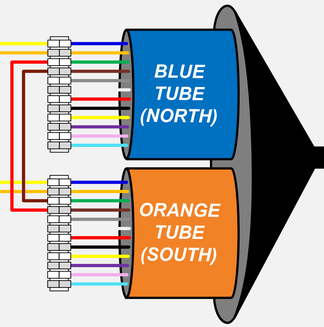




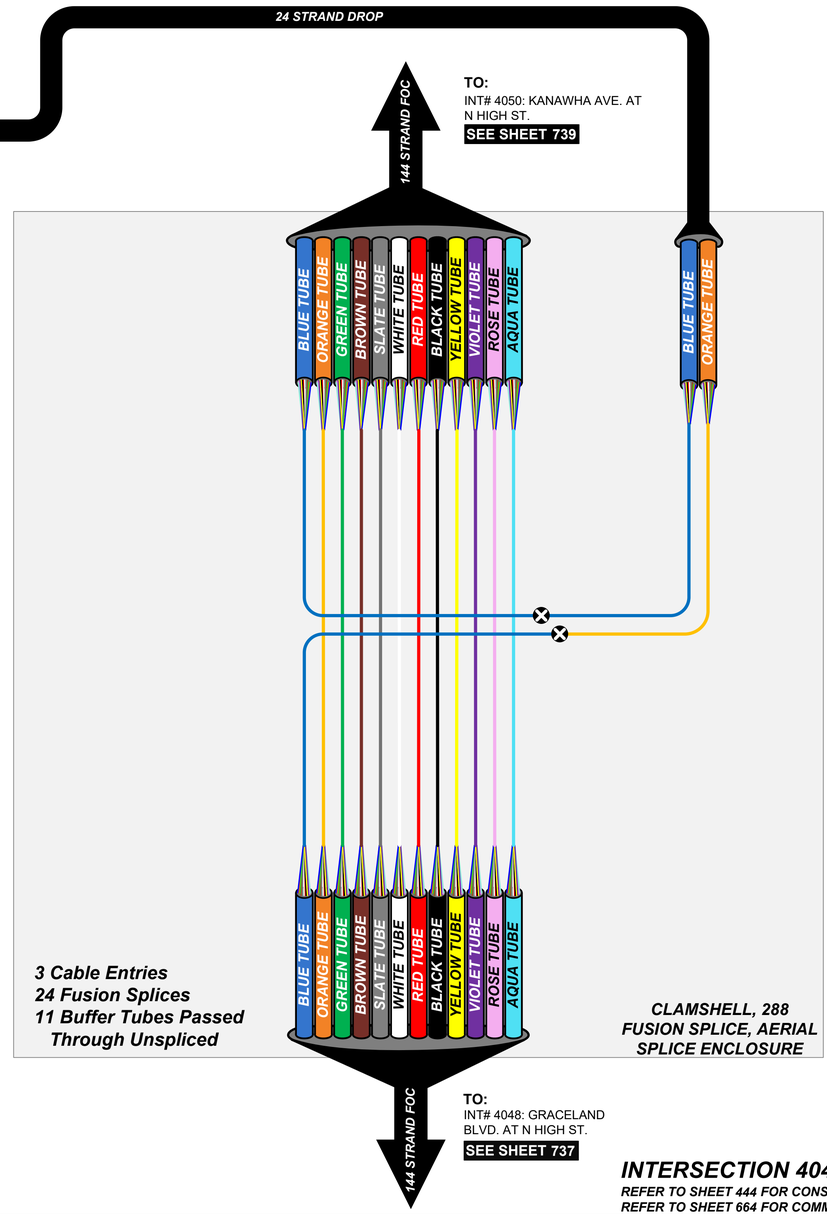
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4051: BROADMEADOWS BLVD. AT N HIGH ST.
SEE SHEET 740

PORT 6: INT# 4047: MORSE RD. AT N HIGH ST.
SEE SHEET 734



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4049

REFER TO SHEET 444 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

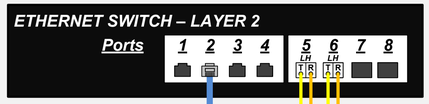
INT# 4049: FENWAY RD. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

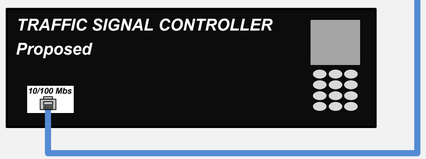
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

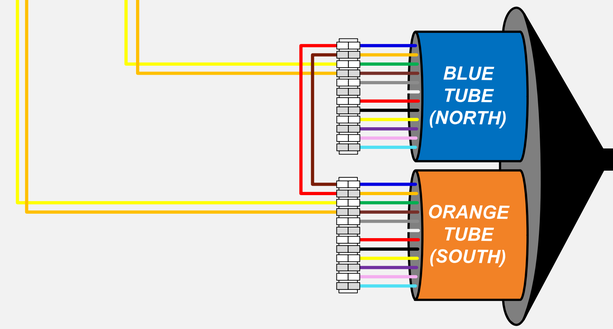




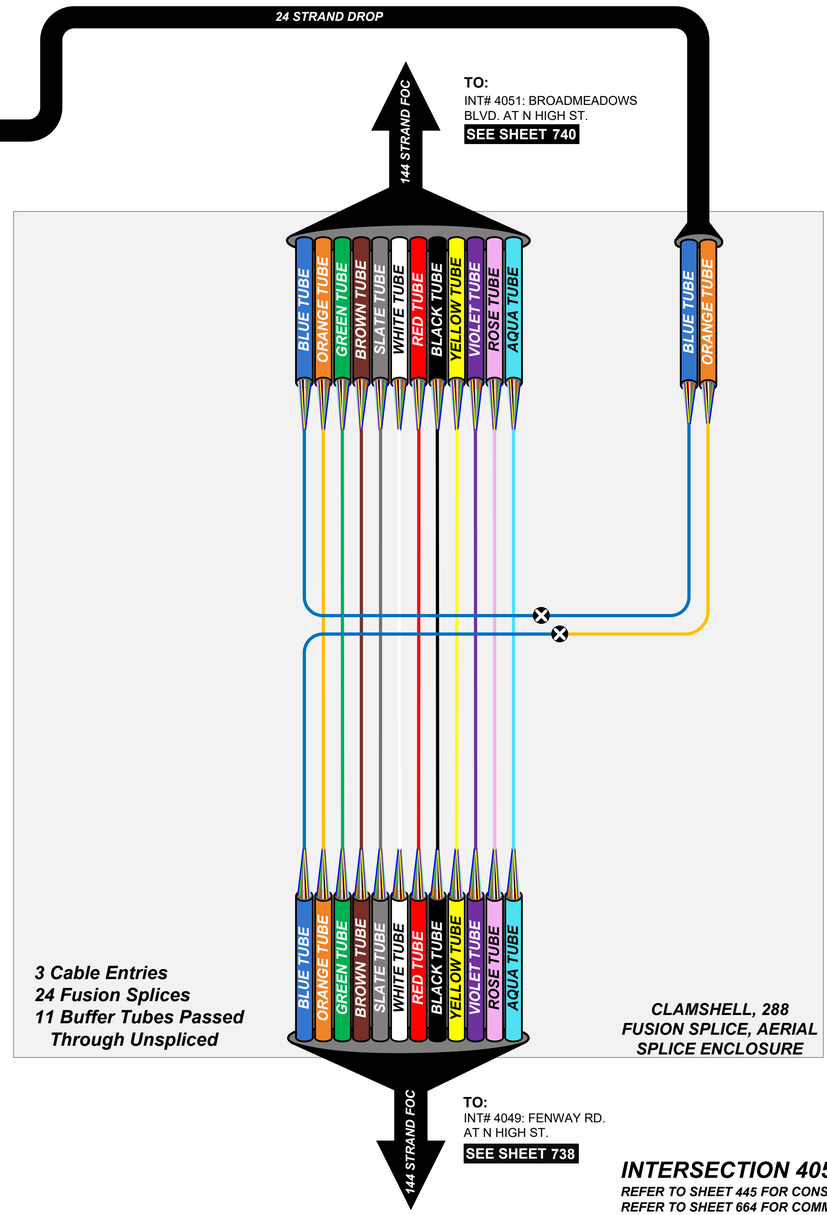
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4051: BROADMEADOWS BLVD. AT N HIGH ST.
SEE SHEET 740

PORT 6: INT# 4048: GRACELAND BLVD. AT N HIGH ST.
SEE SHEET 737



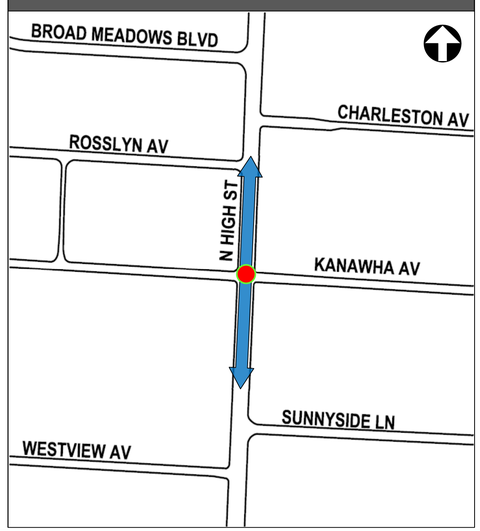
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4050

REFER TO SHEET 445 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4050: KANAWHA AVE. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

739
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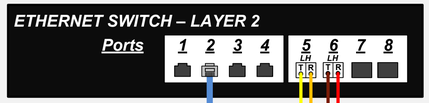
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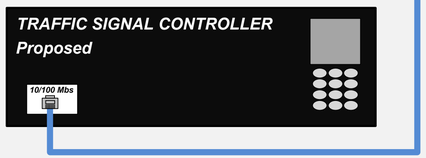
TRAFFIC SIGNAL CABINET ASSEMBLY

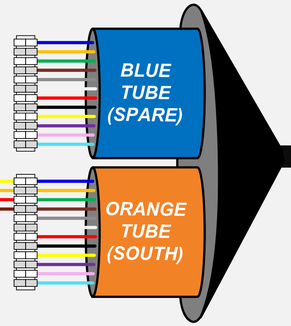
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4049: FENWAY RD. AT N HIGH ST.
SEE SHEET 738

PORT 6: INT# 4050: KANAWHA AVE. AT N HIGH ST.
SEE SHEET 739







PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP





2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

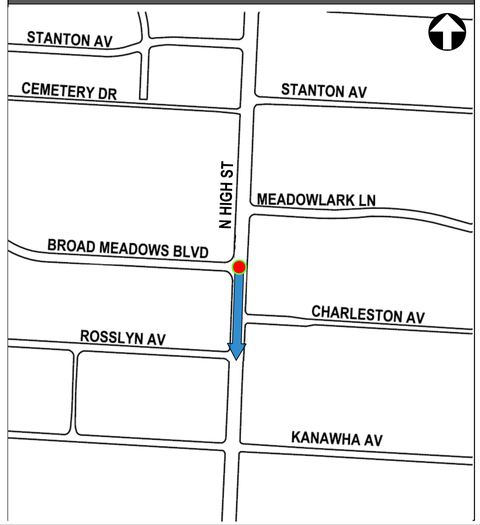
144 STRAND FOC

TO:
INT# 4050: KANAWHA AVE. AT N HIGH ST.
SEE SHEET 739

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4051

REFER TO SHEET 446 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

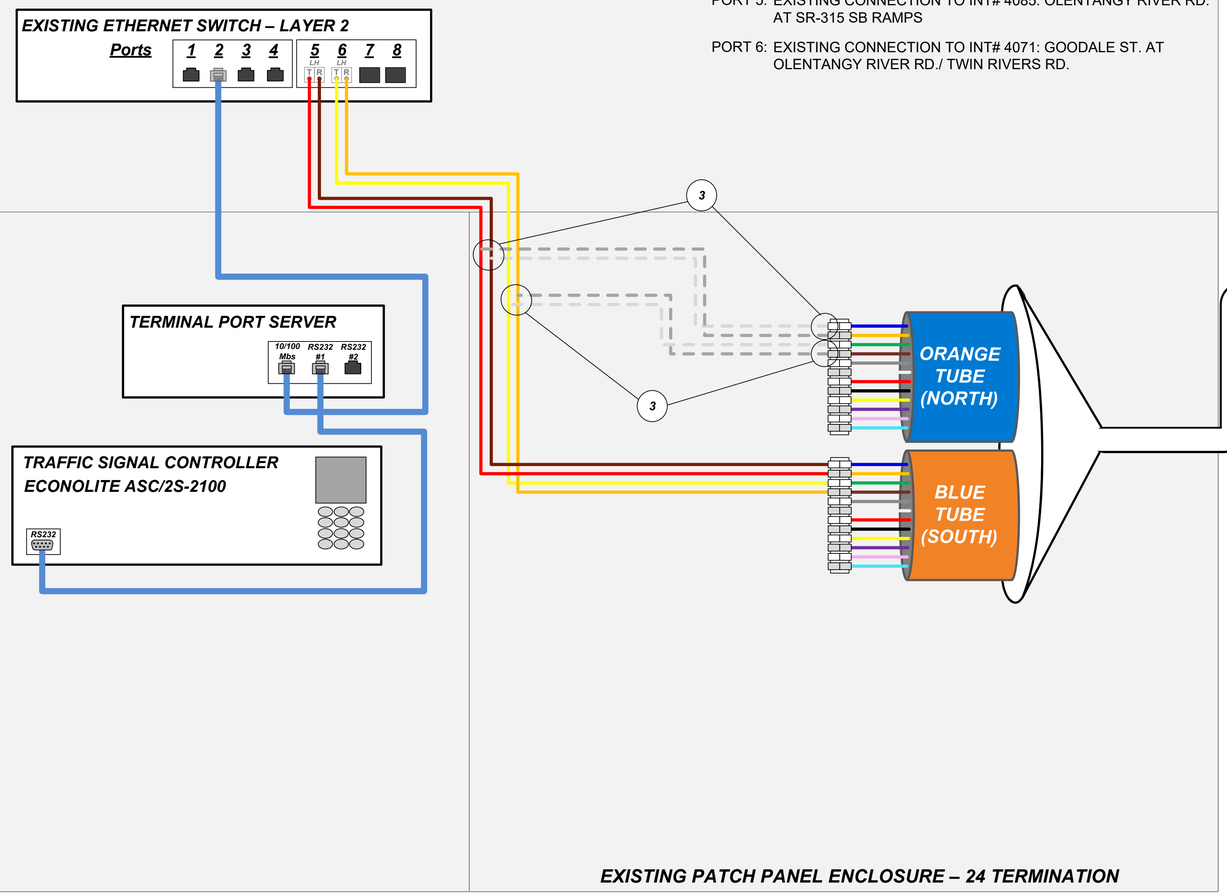
INT# 4051: BROADMEADOWS BLVD. AT N HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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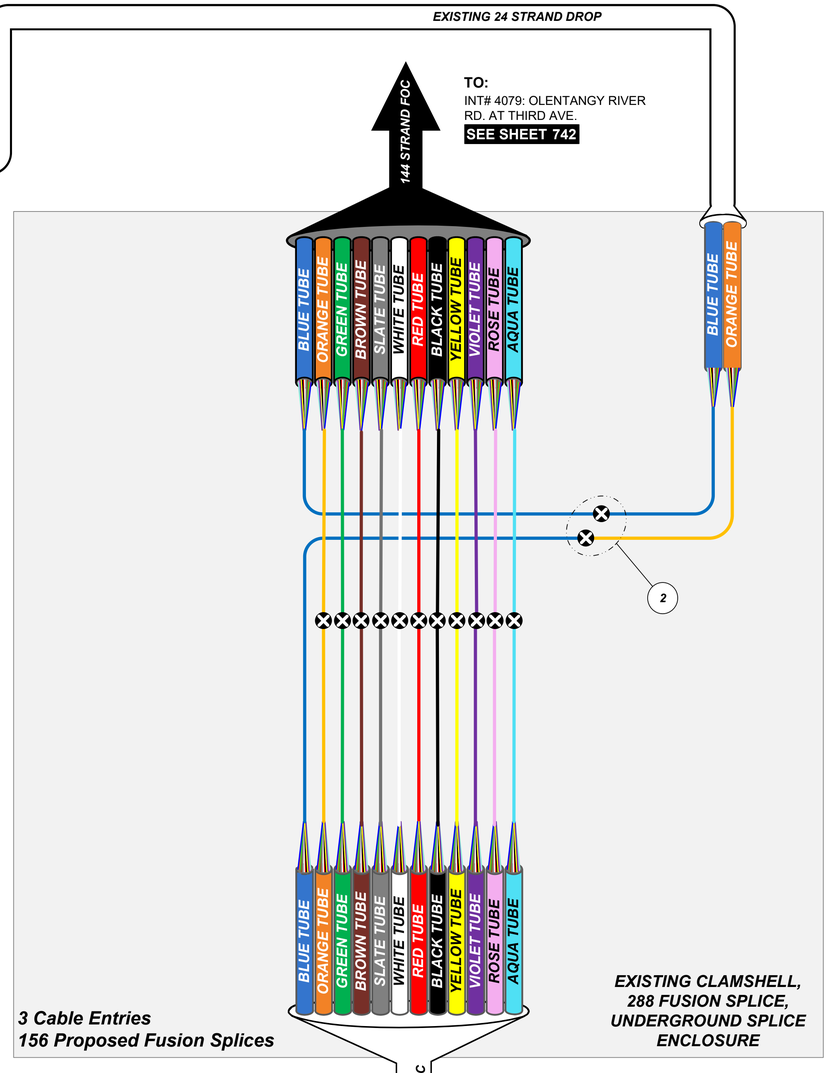
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4085: OLENTANGY RIVER RD. AT SR-315 SB RAMPS

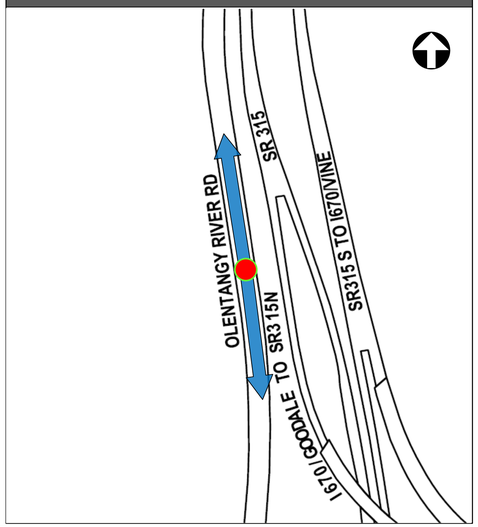
PORT 6: EXISTING CONNECTION TO INT# 4071: GOODALE ST. AT OLENTANGY RIVER RD./ TWIN RIVERS RD.



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

FOR EXISTING WORK SHOWN ON THIS SHEET REFER TO CTSS PHASE B PROJECT 2762-E

[2]REMOVE EXISTING SPLICING BETWEEN 24 STRAND DROP CABLE AND 144 STRAND CABLE. RESPLICE THE CABLES AS SHOWN IN THE DIAGRAM ABOVE

[3]DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

INTERSECTION 4254

REFER TO SHEET 248 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4254: OLENTANGY RIVER RD. AT TIME WARNER DR. / GOWDY FIELD DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

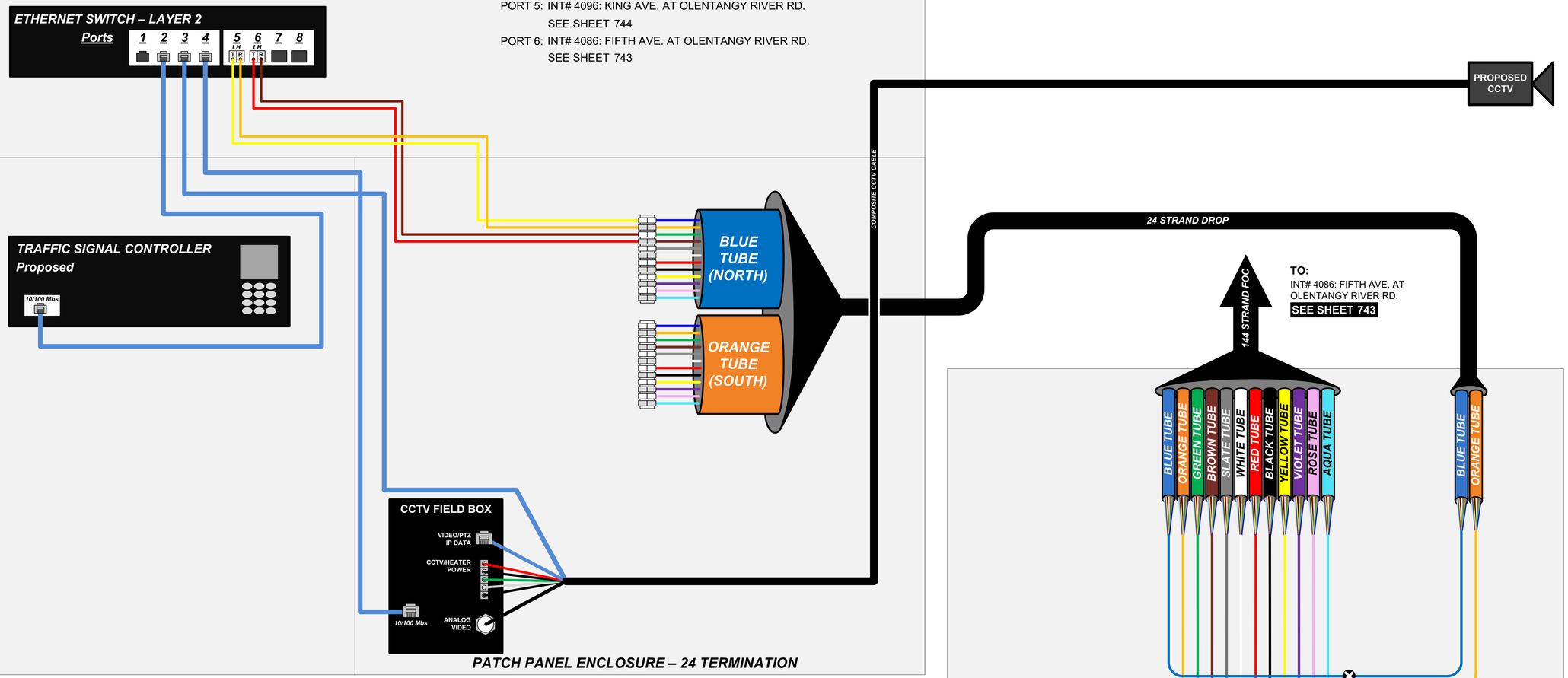
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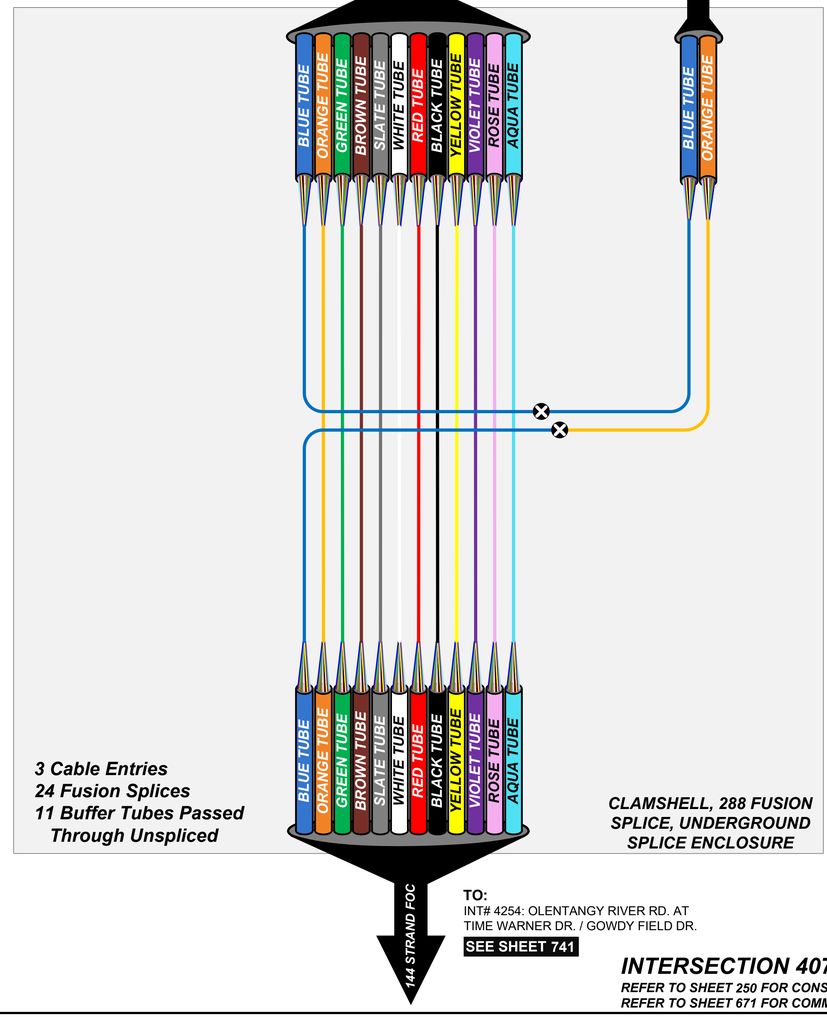
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4096: KING AVE. AT OLENTANGY RIVER RD.
SEE SHEET 744

PORT 6: INT# 4086: FIFTH AVE. AT OLENTANGY RIVER RD.
SEE SHEET 743

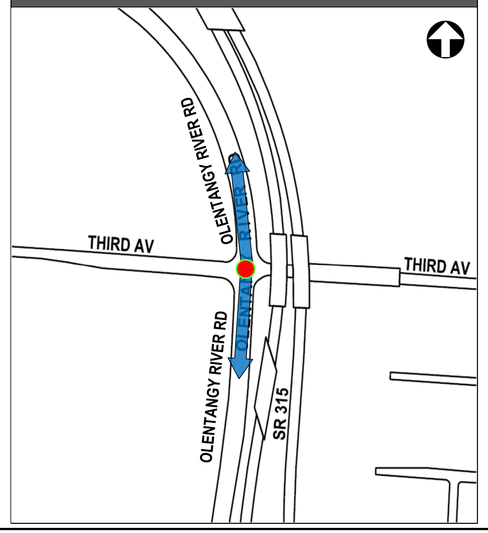




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4079

REFER TO SHEET 250 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4079: OLENTANGY RIVER RD. AT THIRD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

742
1000

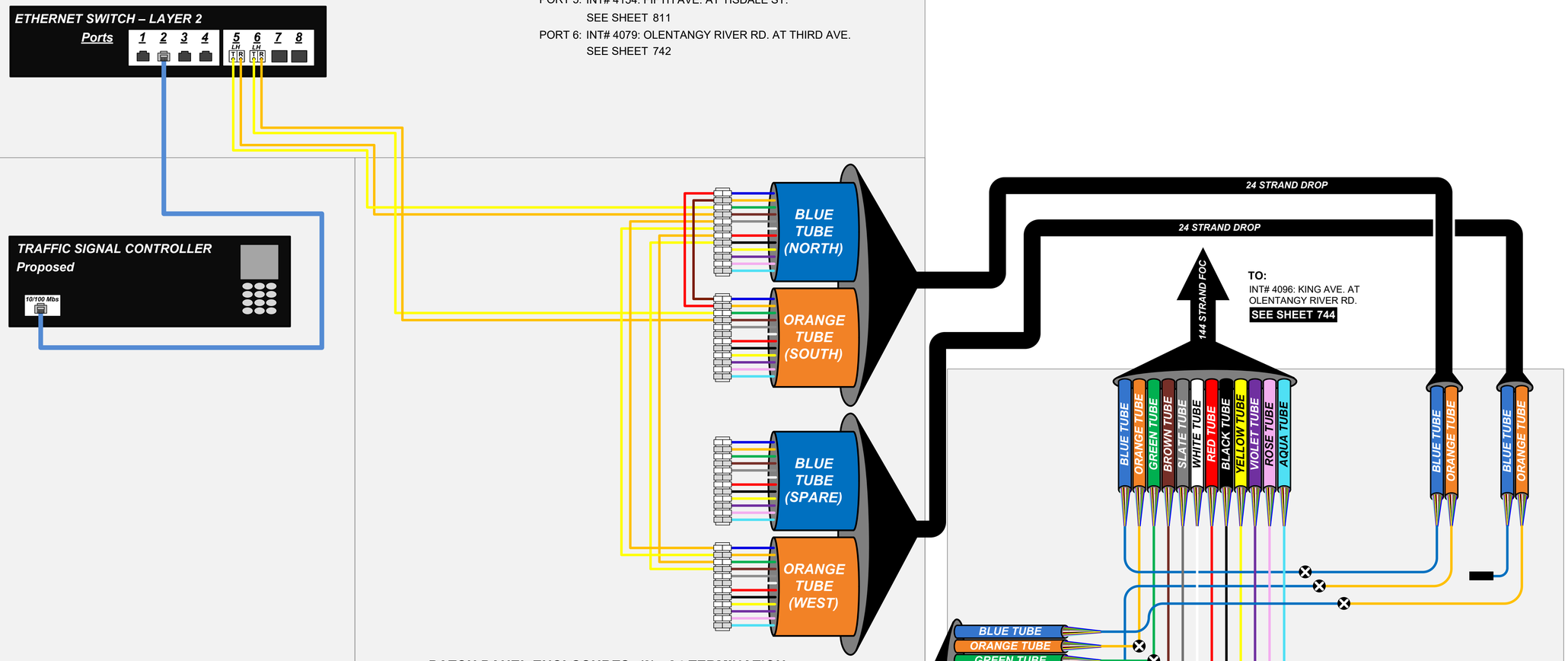
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4154: FIFTH AVE. AT TISDALE ST.
SEE SHEET 811

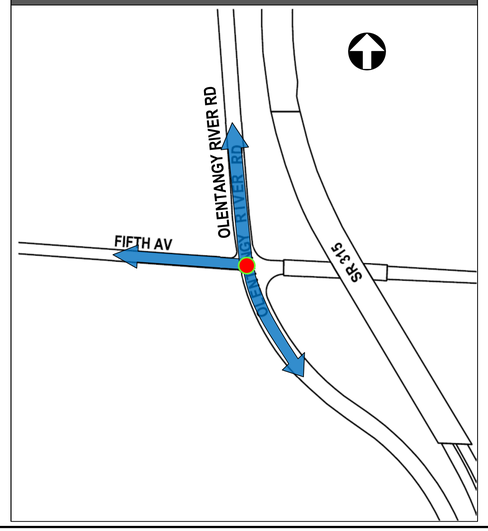
PORT 6: INT# 4079: OLENTANGY RIVER RD. AT THIRD AVE.
SEE SHEET 742



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4086

REFER TO SHEET 252 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4086: FIFTH AVE. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

743
1000

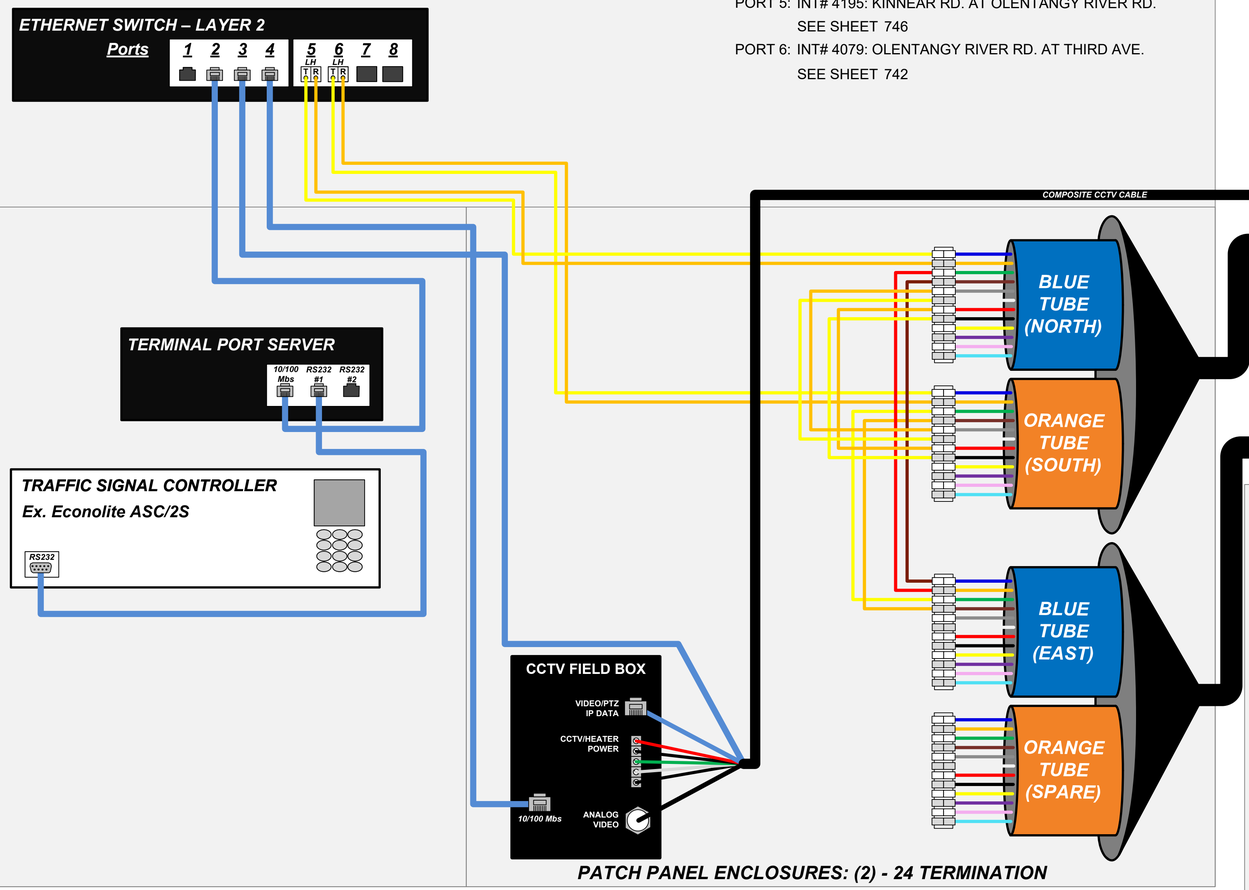
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4195: KINNEAR RD. AT OLENTANGY RIVER RD.
SEE SHEET 746

PORT 6: INT# 4079: OLENTANGY RIVER RD. AT THIRD AVE.
SEE SHEET 742



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

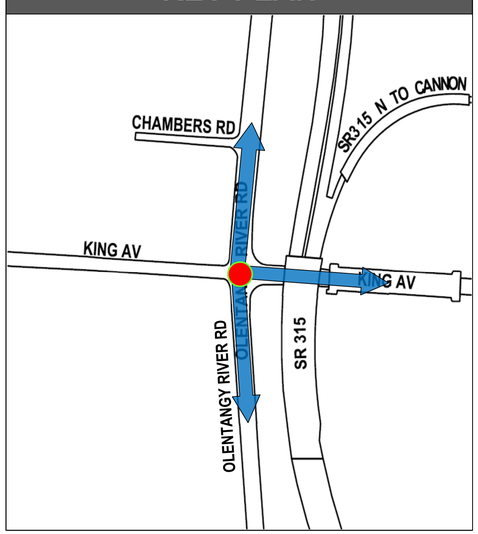
5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4096

REFER TO SHEET 254 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4096: KING AVE. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

744
1000

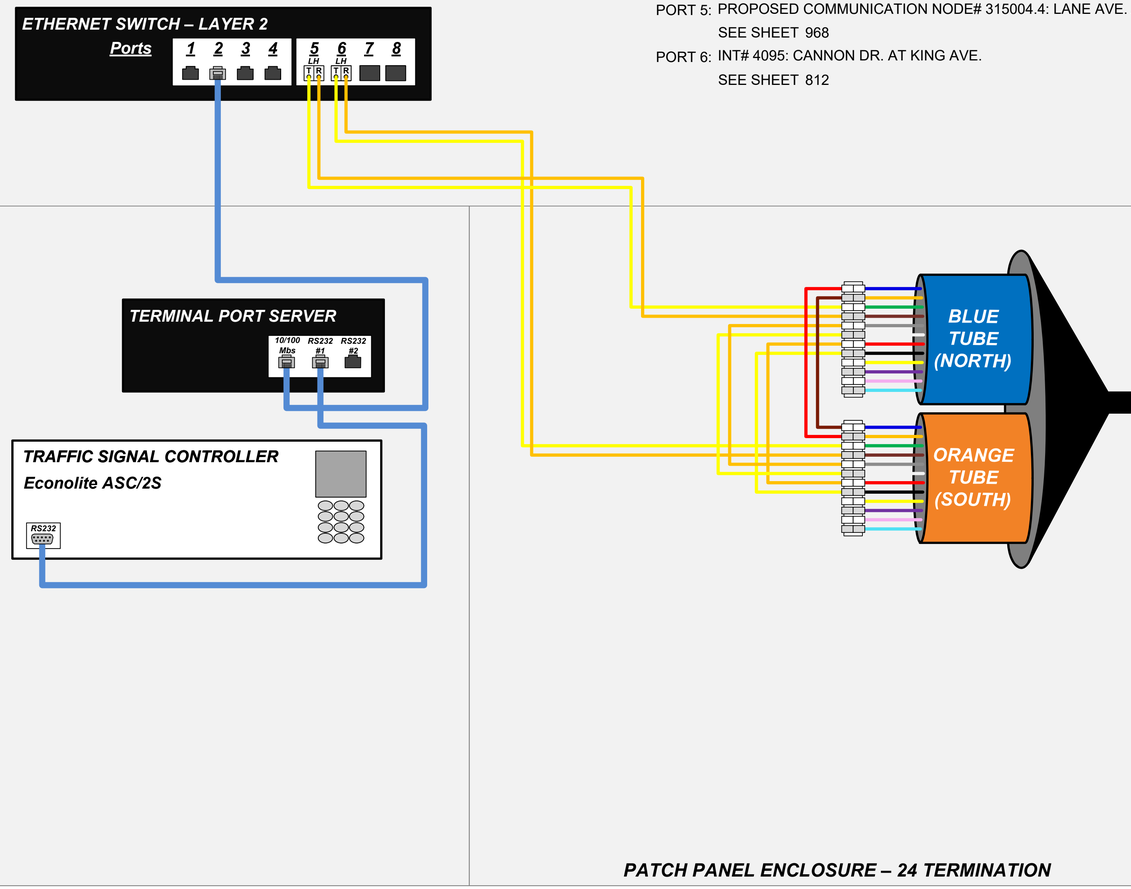
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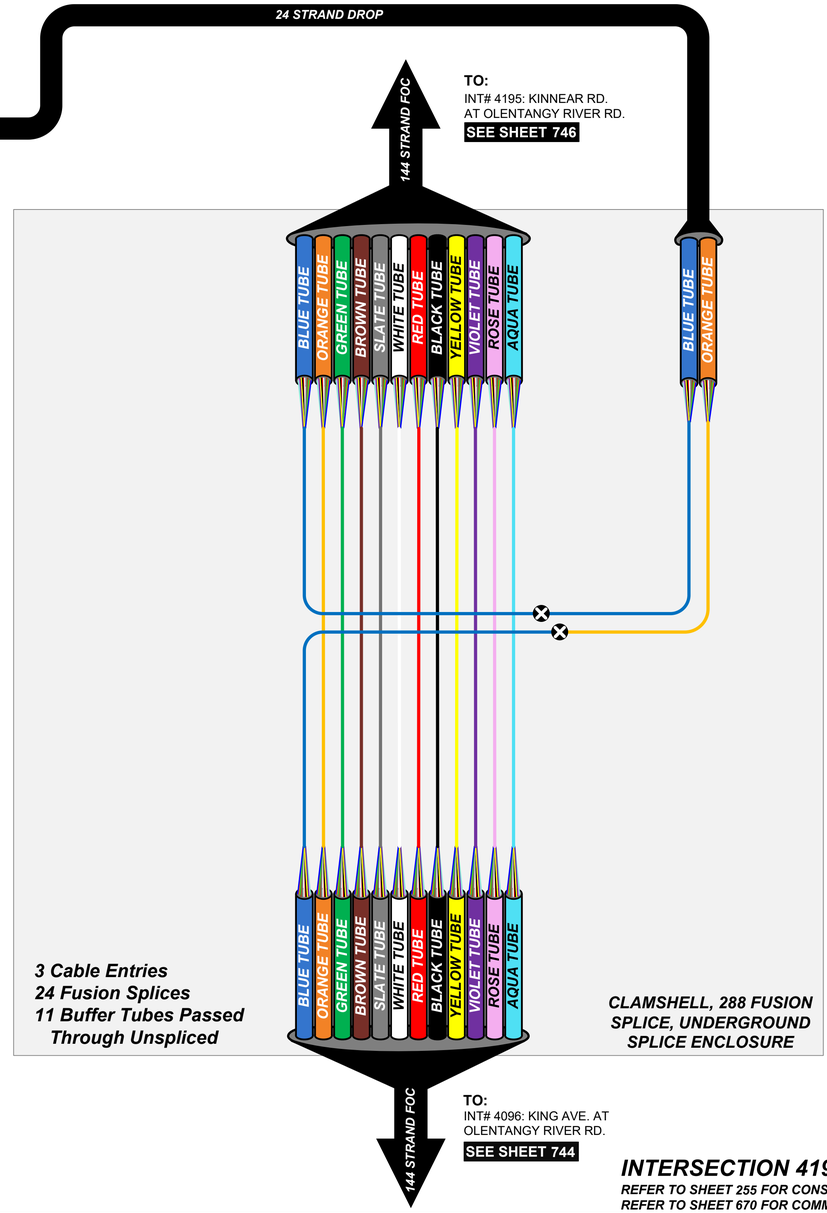
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
SEE SHEET 968

PORT 6: INT# 4095: CANNON DR. AT KING AVE.
SEE SHEET 812

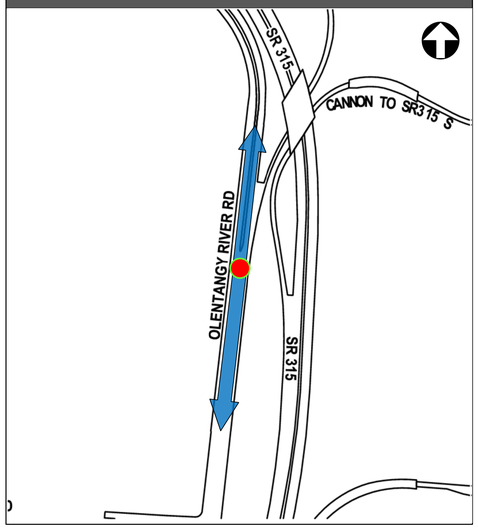




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4194

REFER TO SHEET 255 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4194: LENNOX TOWN CENTER AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

745
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5–8: LH T/R)

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER

Econolite ASC/2S

RS232

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4096: KING AVE. AT OLENTANGY RIVER RD.
SEE SHEET 744

PORT 6: INT# 4196: KINNEAR RD. AT SR 315 SB RAMPS
SEE SHEET 753

PORT 7: INT# 4163: JOHN HERRICK DR. AT OLENTANGY RIVER RD.
SEE SHEET 747

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

BLUE TUBE (NORTH)

ORANGE TUBE (NORTH-TO-NODE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
SEE SHEET 969

144 STRAND FOC

TO:
INT# 4163: JOHN HERRICK DR. AT OLENTANGY RIVER RD.
SEE SHEET 747

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

144 STRAND FOC

TO:
INT# 4196: KINNEAR RD. AT SR 315 SB RAMPS
SEE SHEET 753

TO:
INT# 4194: LENNOX TOWN CENTER AT OLENTANGY RIVER RD.
SEE SHEET 745

144 STRAND FOC

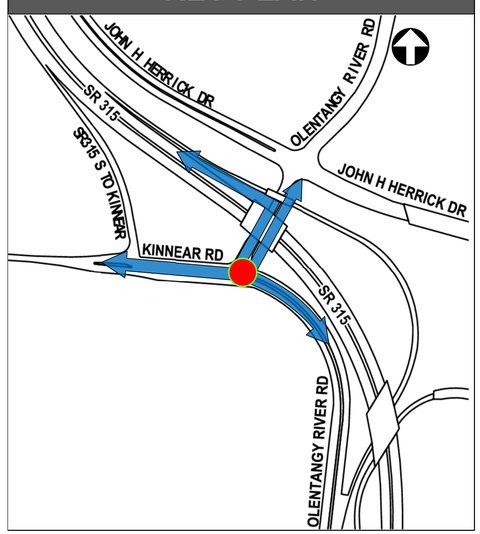
6 Cable Entries
180 Fusion Splices
22 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4195

REFER TO SHEET 256 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4195: KINNEAR RD. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

746
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4195: KINNEAR RD. AT OLENTANGY RIVER RD.
SEE SHEET 746

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R)

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Econolite ASC/2S

RS232

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
R G B G
10/100 Mbs
ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

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

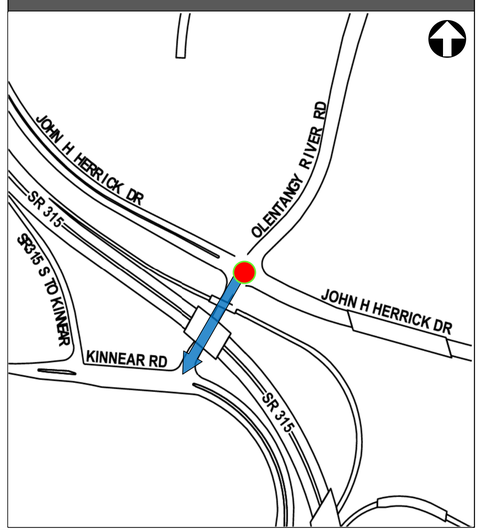
144 STRAND FOC

TO:
INT# 4195: KINNEAR RD. AT OLENTANGY RIVER RD.
SEE SHEET 746

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4163
REFER TO SHEET 257 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4163: JOHN HERRICK DR. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

747
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
SEE SHEET 968

PORT 6: INT# 4090: FIFTH AVE. AT GRANDVIEW AVE.
SEE SHEET 806

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

BLUE TUBE (NORTH)

ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 4097: KENNY RD. AT KING AVE.
SEE SHEET 749

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

144 STRAND FOC

TO:
INT# 4089: FIFTH AVE. AT NORTHWEST BLVD.
SEE SHEET 809

144 STRAND FOC

TO:
INT# 4087: EDGEHILL RD. AT FIFTH AVE.
SEE SHEET 810

5 Cable Entries
192 Fusion Splices
6 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4088

REFER TO SHEET 282 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4088: FIFTH AVE. AT KENNY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

748
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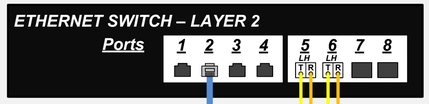
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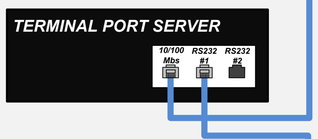
TRAFFIC SIGNAL CABINET ASSEMBLY

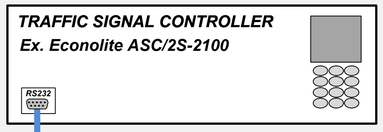
ETHERNET SWITCH PORT DESTINATION

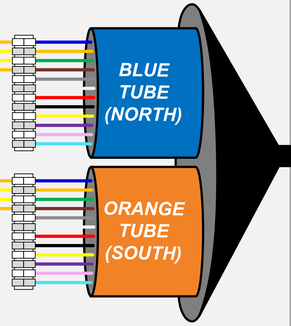
PORT 5: INT# SIG4045: CHAMBERS RD. AT KENNY RD.
SEE SHEET 750

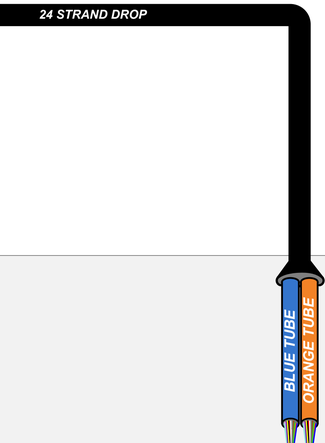
PORT 6: INT# 4089: FIFTH AVE. AT NORTHWEST BLVD.
SEE SHEET 809

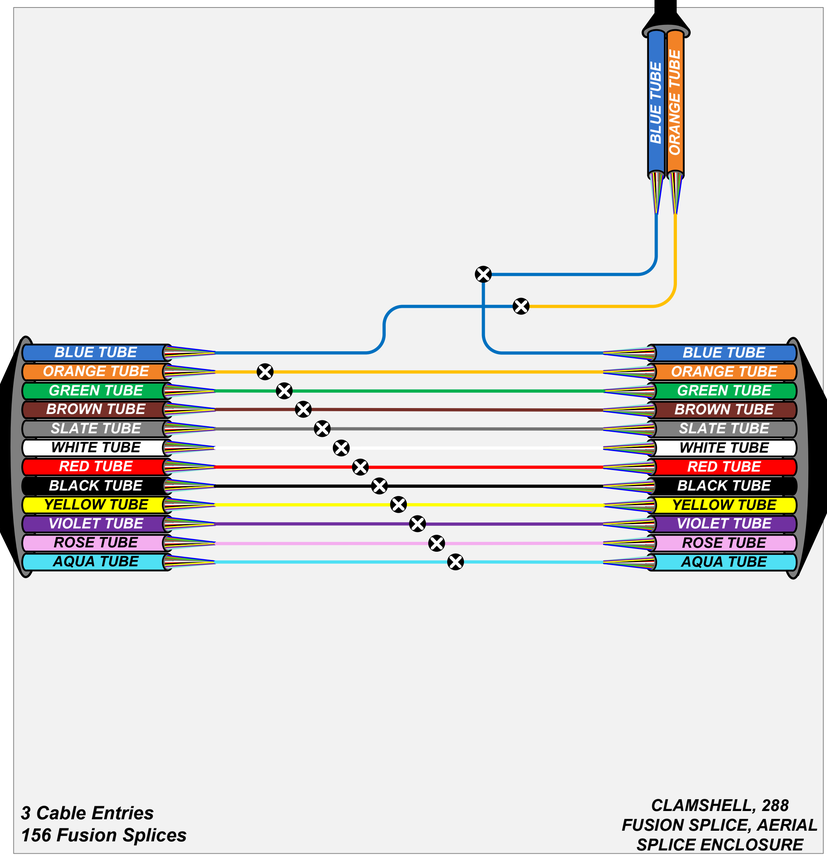










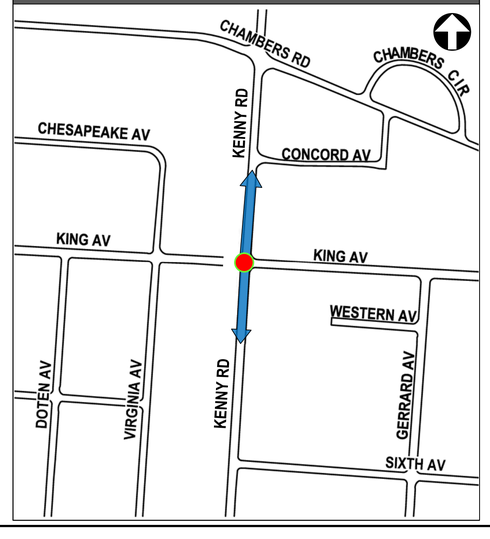


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4097

REFER TO SHEET 308 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4097: KENNY RD. AT KING AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

749
1000

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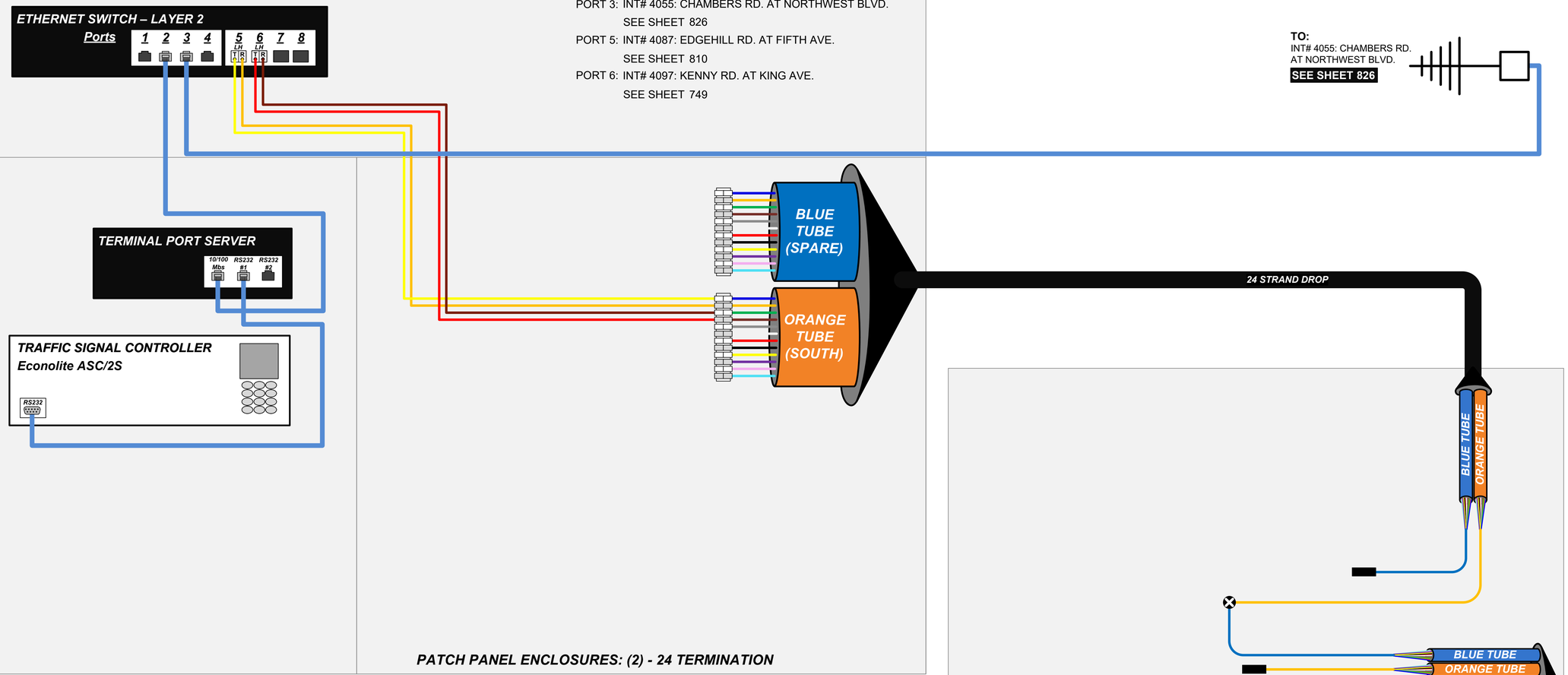
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 4055: CHAMBERS RD. AT NORTHWEST BLVD.
SEE SHEET 826

PORT 5: INT# 4087: EDGEHILL RD. AT FIFTH AVE.
SEE SHEET 810

PORT 6: INT# 4097: KENNY RD. AT KING AVE.
SEE SHEET 749



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

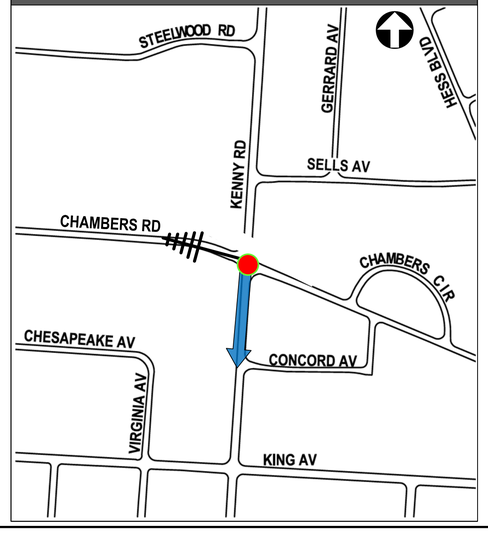
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4045
REFER TO SHEET 316 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

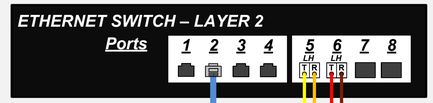
INT# SIG4045: CHAMBERS RD. AT KENNY RD.
COMMUNICATIONS DIAGRAM

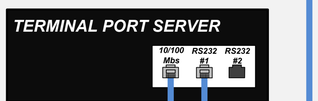
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

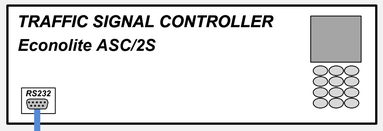
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TRAFFIC SIGNAL CABINET ASSEMBLY



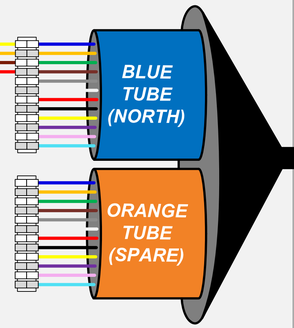


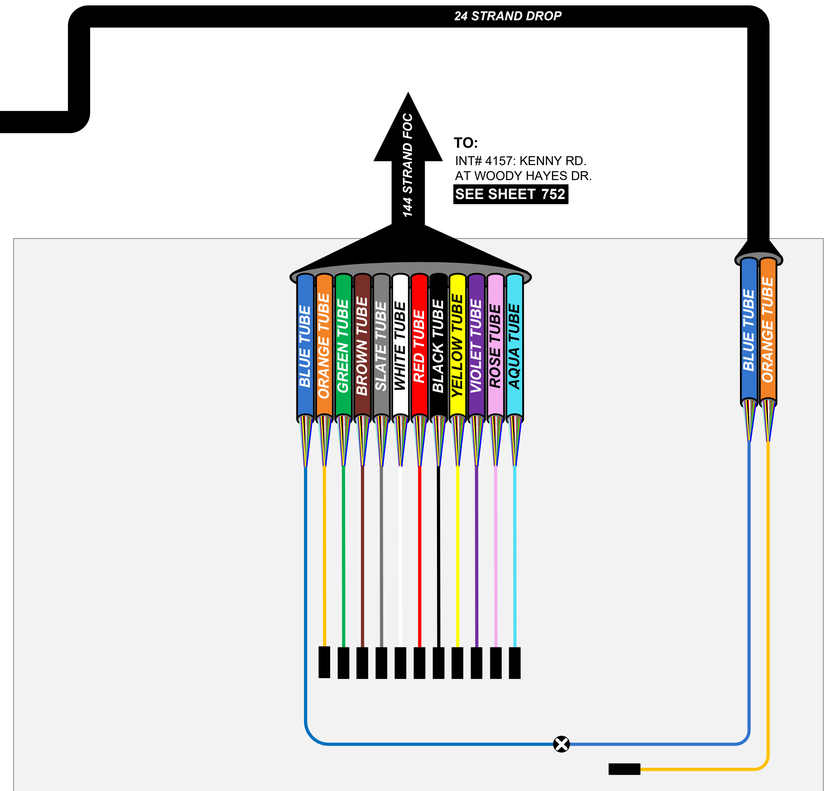


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4158: KENNY RD. AT LANE AVE.
SEE SHEET 754

PORT 6: INT# 4157: KENNY RD. AT WOODY HAYES DR.
SEE SHEET 752





2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

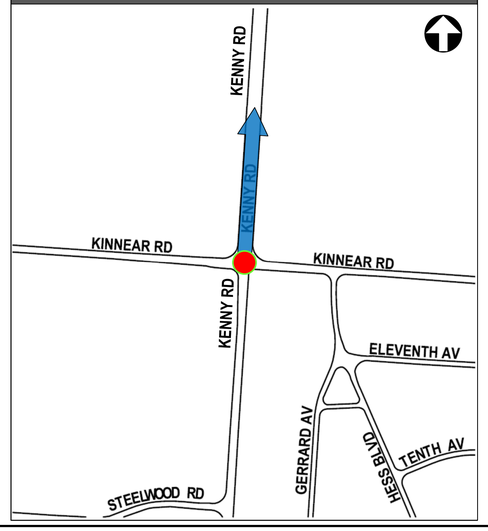
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4200

REFER TO SHEET 318 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# SIG4200: KENNY RD. AT KINNEAR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

751
1000

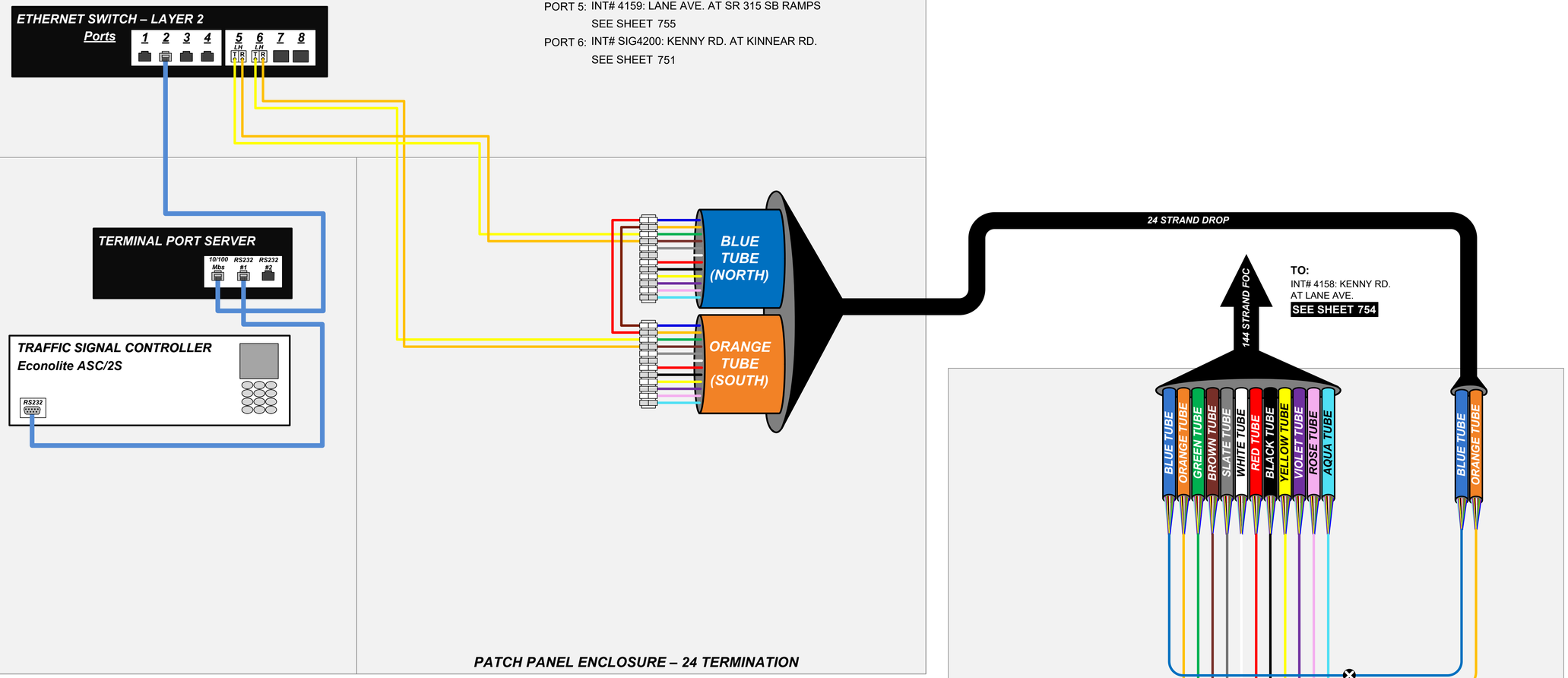
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4159: LANE AVE. AT SR 315 SB RAMPS
SEE SHEET 755

PORT 6: INT# SIG4200: KENNY RD. AT KINNEAR RD.
SEE SHEET 751

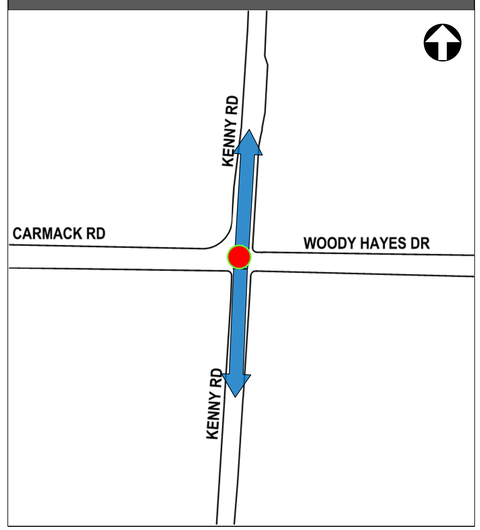


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4157

REFER TO SHEET 323 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4157: KENNY RD. AT WOODY HAYES DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

752
1000

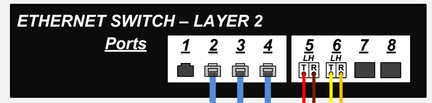
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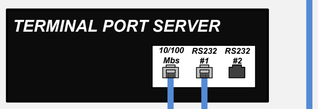
TRAFFIC SIGNAL CABINET ASSEMBLY

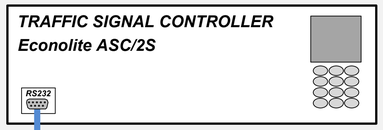
ETHERNET SWITCH PORT DESTINATION

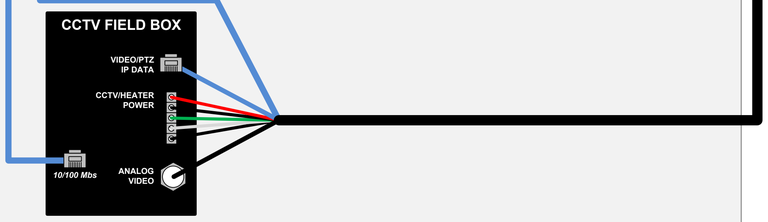
PORT 5: INT# 4195: KINNEAR RD. AT OLENTANGY RIVER RD.
SEE SHEET 746

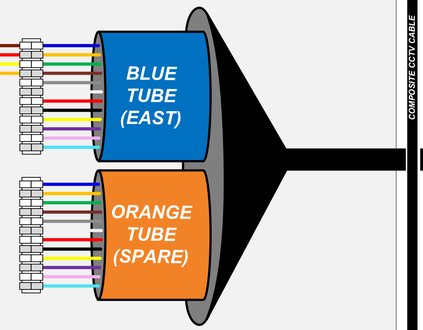
PORT 6: PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
SEE SHEET 968



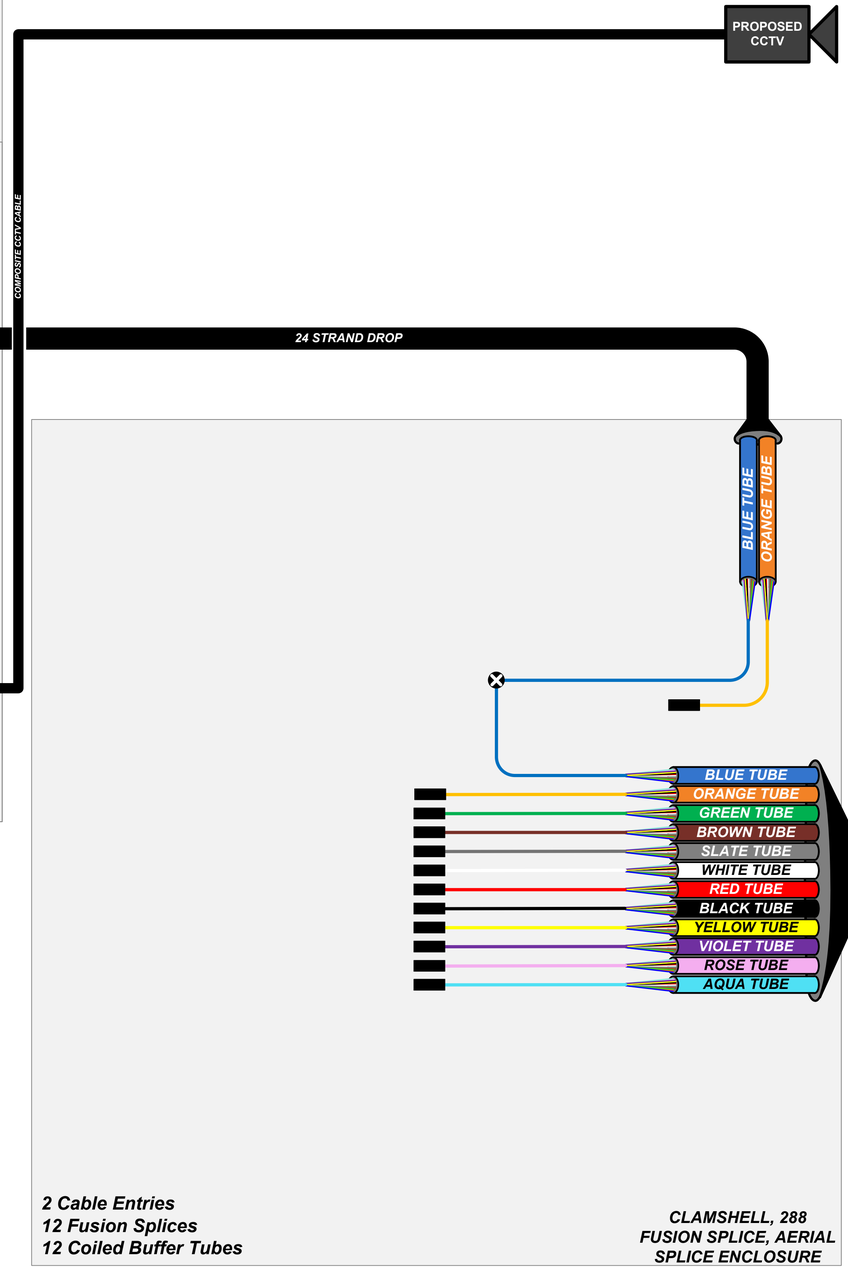








PATCH PANEL ENCLOSURE – 24 TERMINATION



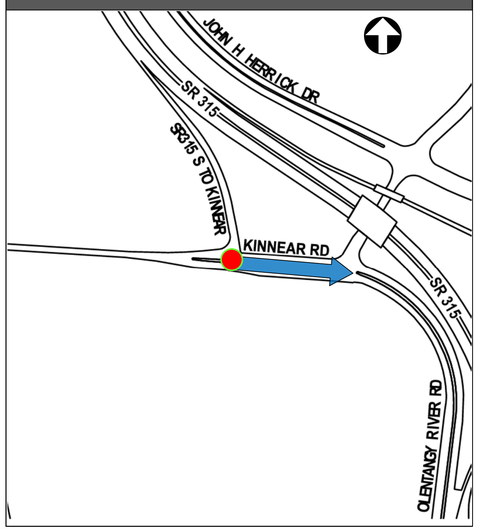
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4196

REFER TO SHEET 321 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4196: KINNEAR RD. AT SR 315 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

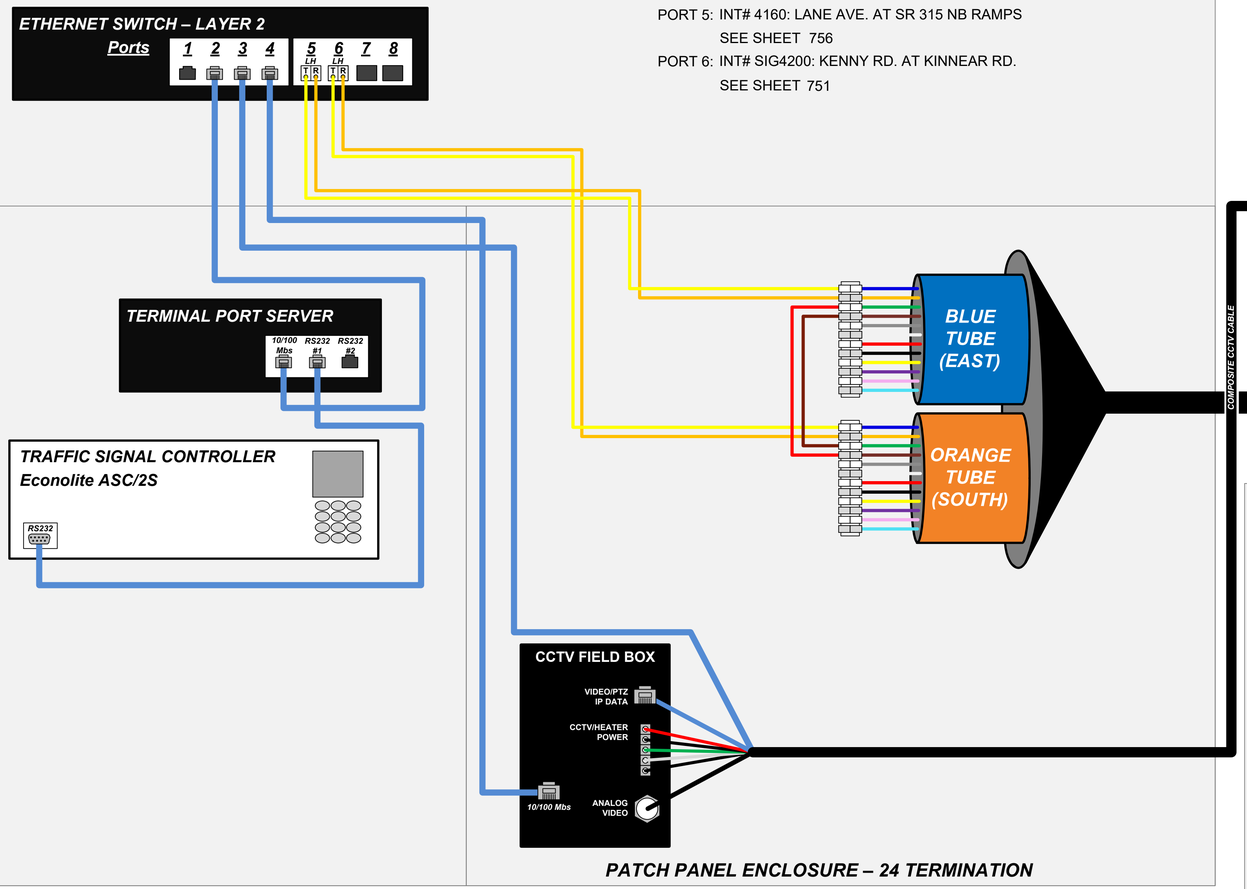
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4160: LANE AVE. AT SR 315 NB RAMPS
SEE SHEET 756
PORT 6: INT# SIG4200: KENNY RD. AT KINNEAR RD.
SEE SHEET 751

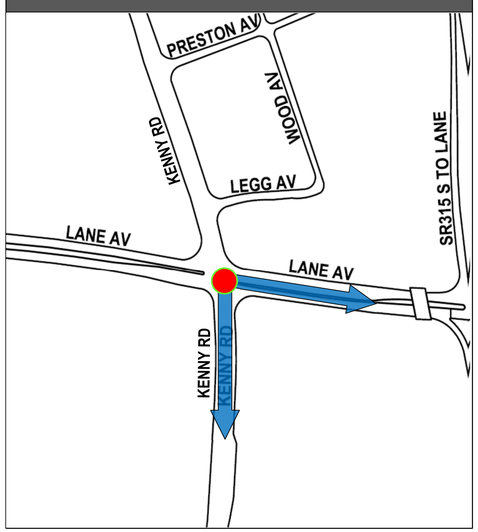


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4158: KENNY RD. AT LANE AVE.
COMMUNICATIONS DIAGRAM

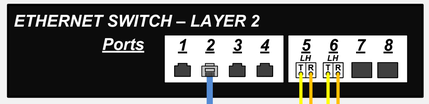
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

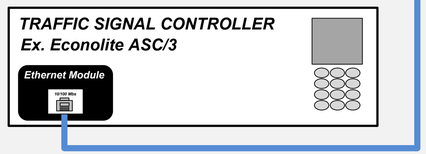
INTERSECTION 4158

REFER TO SHEET 324 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

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TRAFFIC SIGNAL CABINET ASSEMBLY

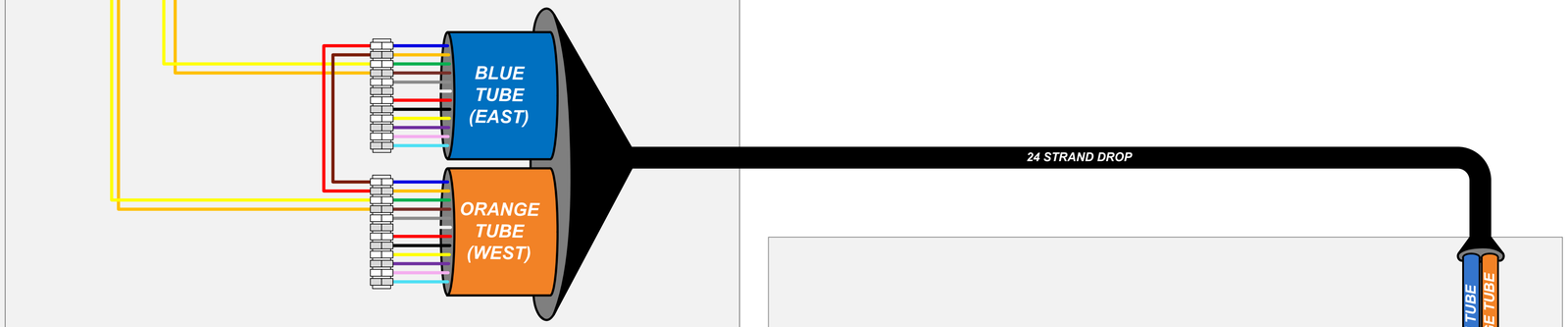




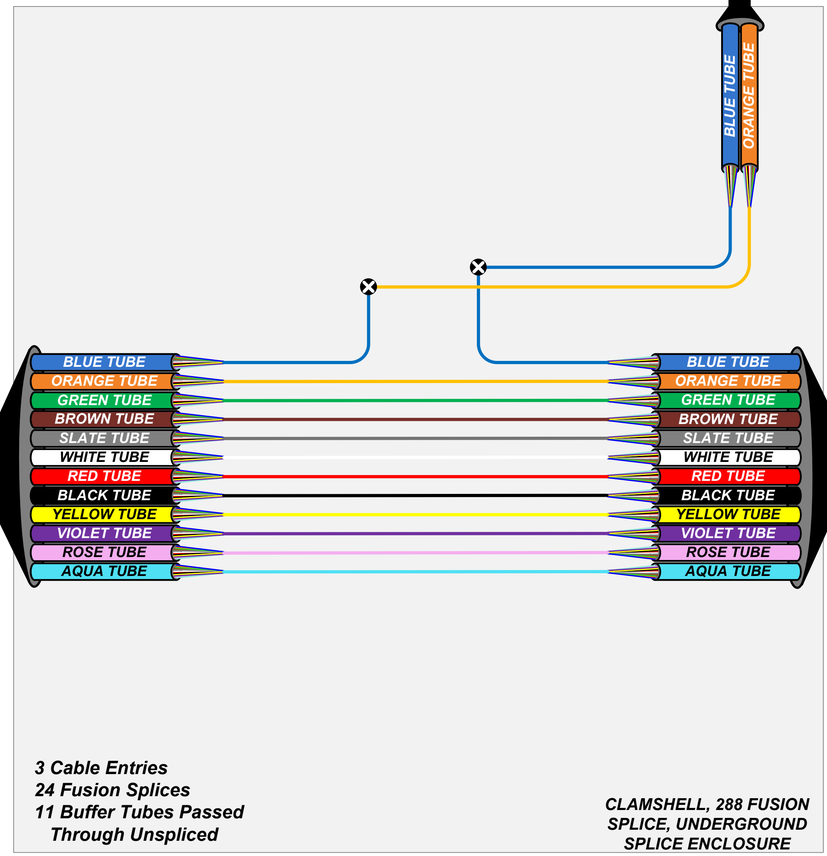
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 315004.4:
LANE AVE. AT SR-315
SEE SHEET 968

PORT 6: INT# 4157: KENNY RD. AT WOODY HAYES DR.
SEE SHEET 752



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4158: KENNY RD.
AT LANE AVE.
SEE SHEET 754

TO:
INT# 4160: LANE AVE.
AT SR 315 NB RAMPS
SEE SHEET 756

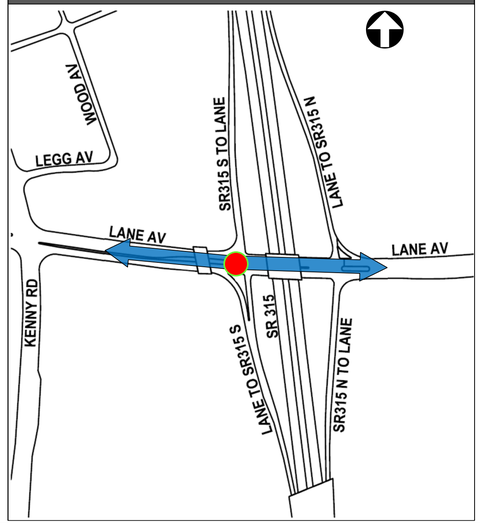
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4159

REFER TO SHEET 327 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

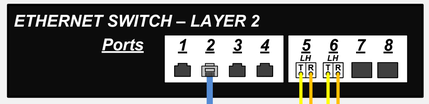
CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4159: LANE AVE. AT SR 315 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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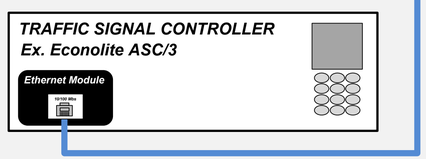
TRAFFIC SIGNAL CABINET ASSEMBLY

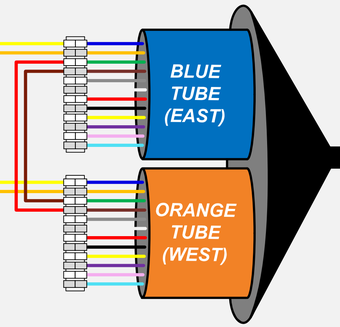


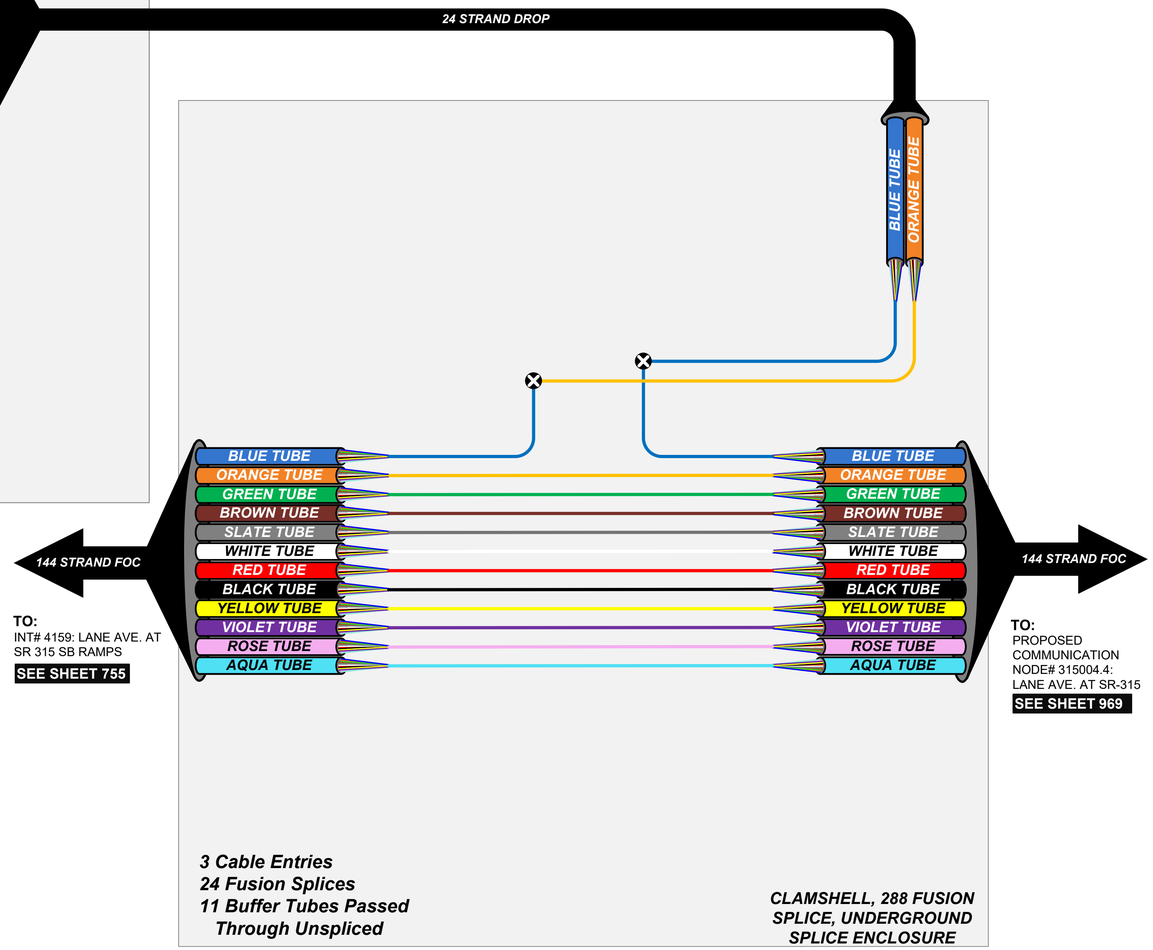
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 315004.4:
LANE AVE. AT SR-315
SEE SHEET 968

PORT 6: INT# 4158: KENNY RD. AT LANE AVE.
SEE SHEET 754







TO:
INT# 4159: LANE AVE. AT
SR 315 SB RAMPS
SEE SHEET 755

TO:
PROPOSED
COMMUNICATION
NODE# 315004.4:
LANE AVE. AT SR-315
SEE SHEET 969

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

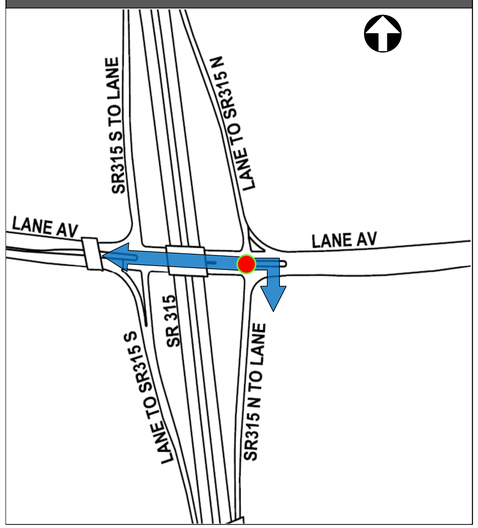
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4160
REFER TO SHEET 327 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

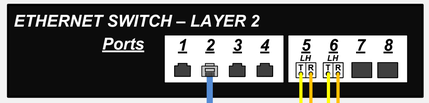
CIP: 540007 - 100006
PID NUMBER: 82573

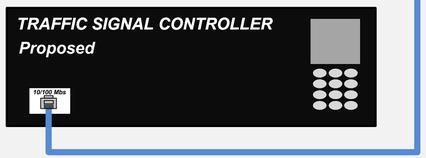
INT# 4160: LANE AVE. AT SR 315 NB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

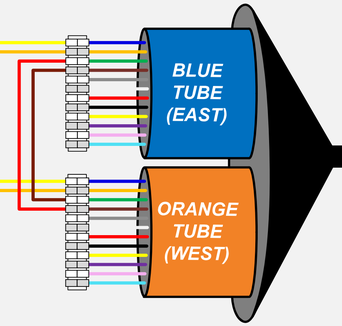




ETHERNET SWITCH PORT DESTINATION

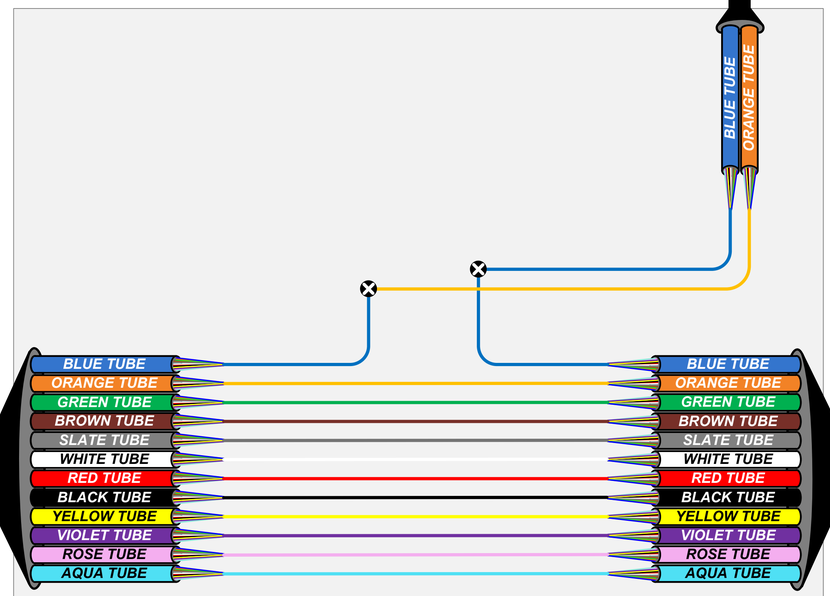
PORT 5: PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
SEE SHEET 968

PORT 6: INT# 4242: LANE AVE. AT PERRY ST.
SEE SHEET 760



PATCH PANEL ENCLOSURE – 24 TERMINATION





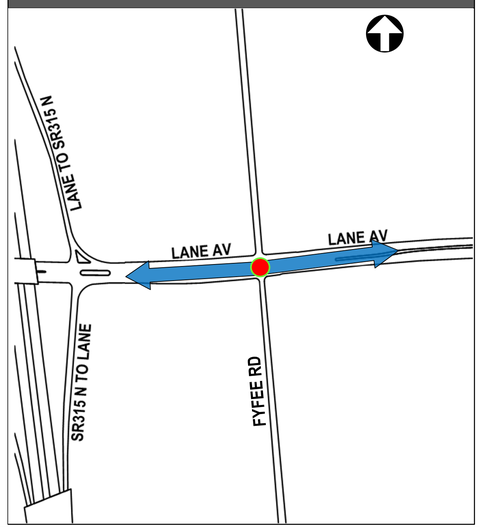
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4161

REFER TO SHEET 328 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4161: FYFFE RD. / FRED TAYLOR DR. AT LANE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

757
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4053: LANE AVE. AT TUTTLE PARK PL.
SEE SHEET 761

PORT 6: INT# 4005: ACKERMAN RD. / DODRIDGE ST. AT OLENTANGY RIVER RD.
SEE SHEET 768

TRAFFIC SIGNAL CONTROLLER
Proposed

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (NORTH)
ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

EXISTING CCTV CABINET LANE AVE. AT OLENTANGY RIVER RD.

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

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

COMPOSITE CCTV CABLE → EXISTING CCTV

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 4054: ARGYLL ST. AT OLENTANGY RIVER RD.
SEE SHEET 762

5 Cable Entries
222 Fusion Splices
3 Coiled Buffer Tubes

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

TO:
INT# 4161: FYFFE RD. / FRED TAYLOR DR. AT LANE AVE.
SEE SHEET 757

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

TO:
INT# 4242: LANE AVE. AT PERRY ST.
SEE SHEET 760

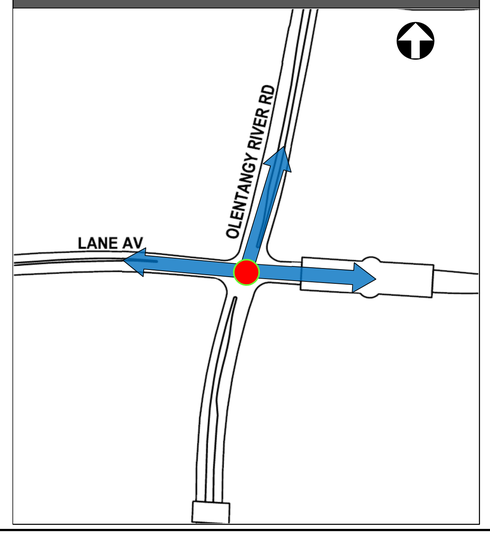
ODOT FIBERS
INSET DETAIL A
SEE SHEET 759

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4162
REFER TO SHEET 329 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4162: LANE AVE. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

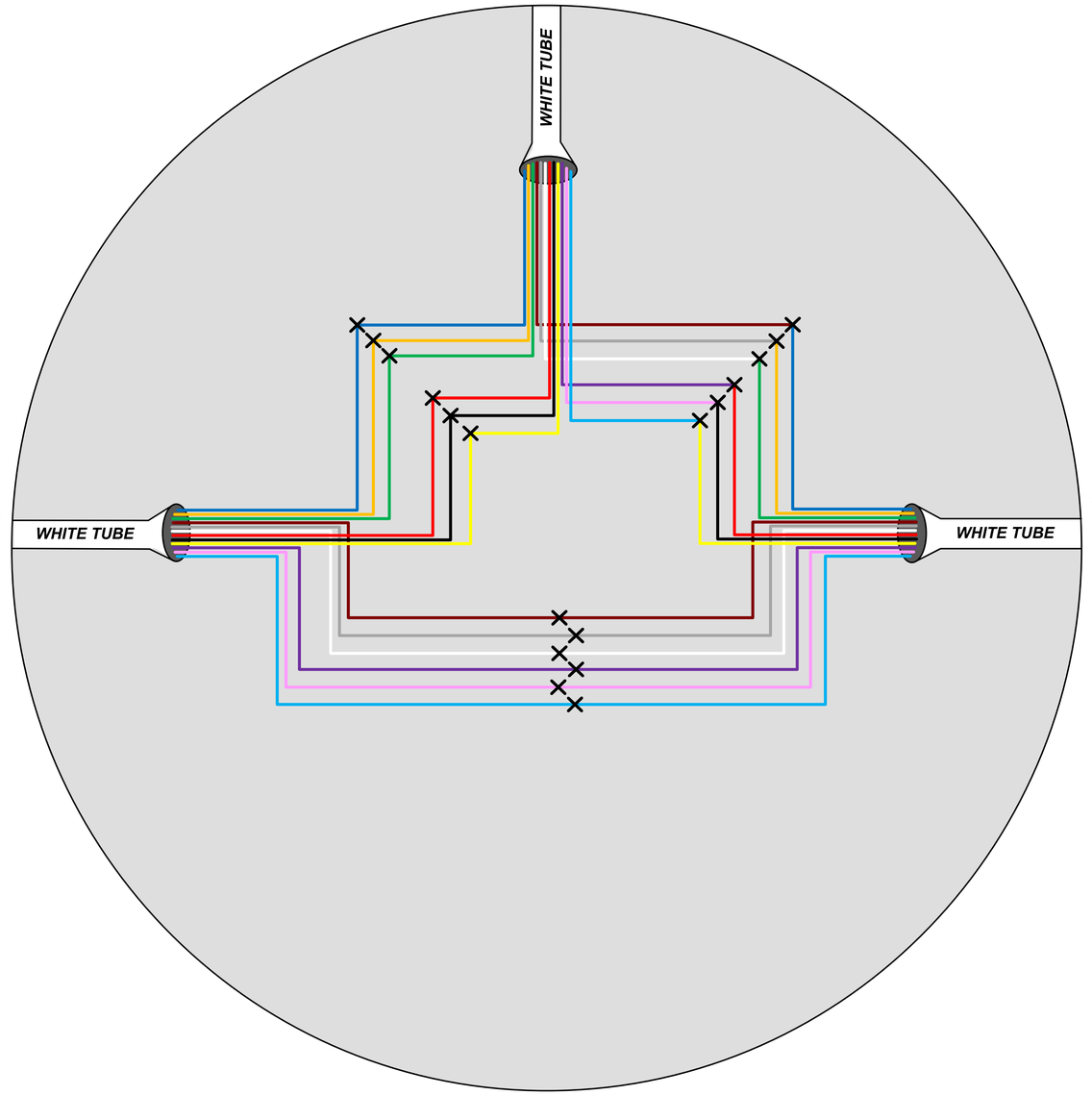
758
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TO:
INT# 4054: ARGYLL ST. AT OLENTANGY RIVER RD.
SEE SHEET 762

TO:
INT# 4161: FYFFE RD. / FRED TAYLOR DR. AT LANE AVE.
SEE SHEET 757



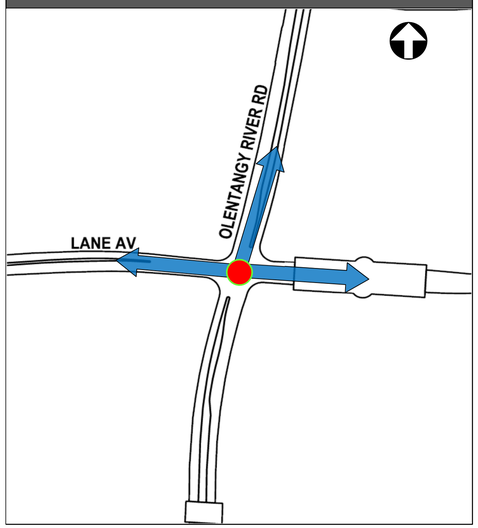
TO:
INT# 4242: LANE AVE. AT PERRY ST.
SEE SHEET 760

DETAIL A
SEE SHEET 758

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



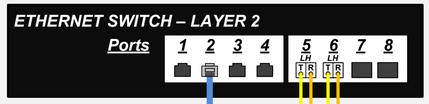
INTERSECTION 4162
REFER TO SHEET 329 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

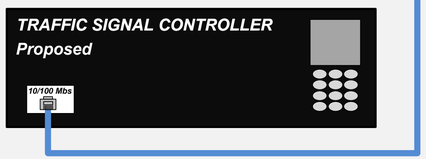
CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4162: LANE AVE. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

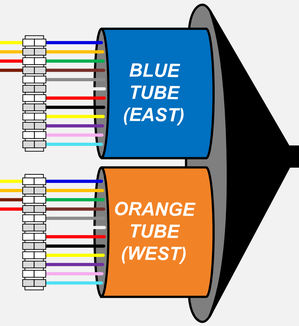




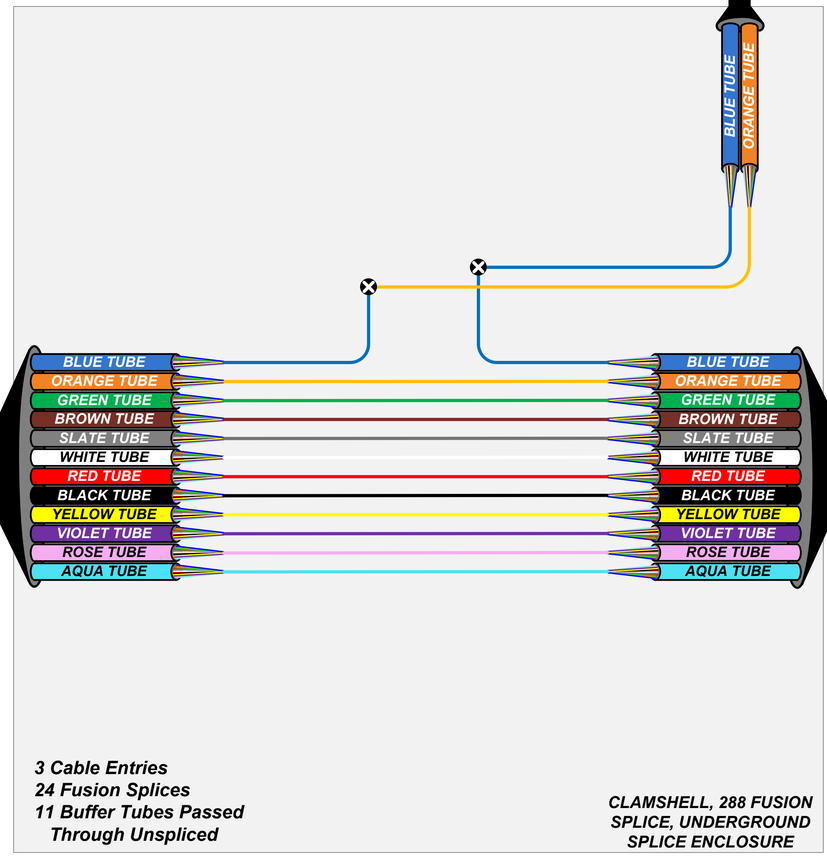
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4052: LANE AVE. AT NEIL AVE.
SEE SHEET 709

PORT 6: INT# 4161: FYFFE RD. / FRED TAYLOR DR. AT LANE AVE.
SEE SHEET 757



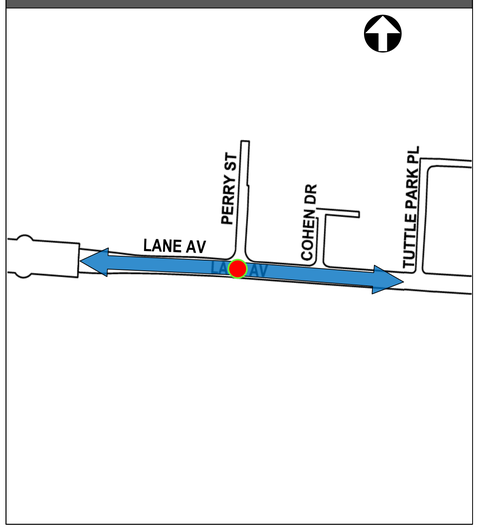
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4242

REFER TO SHEET 331 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4242: LANE AVE. AT PERRY ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

760
1000

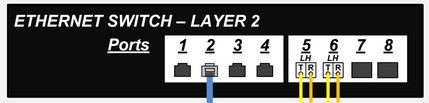
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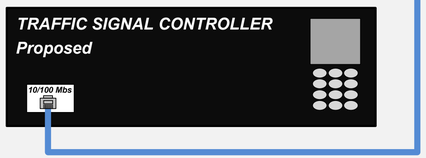
TRAFFIC SIGNAL CABINET ASSEMBLY

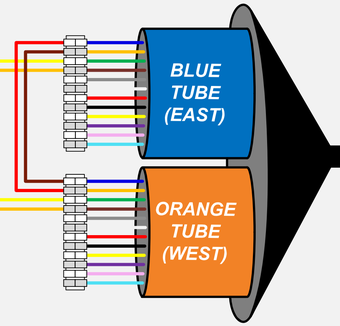
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4026: LANE AVE. AT N HIGH ST.
SEE SHEET 710

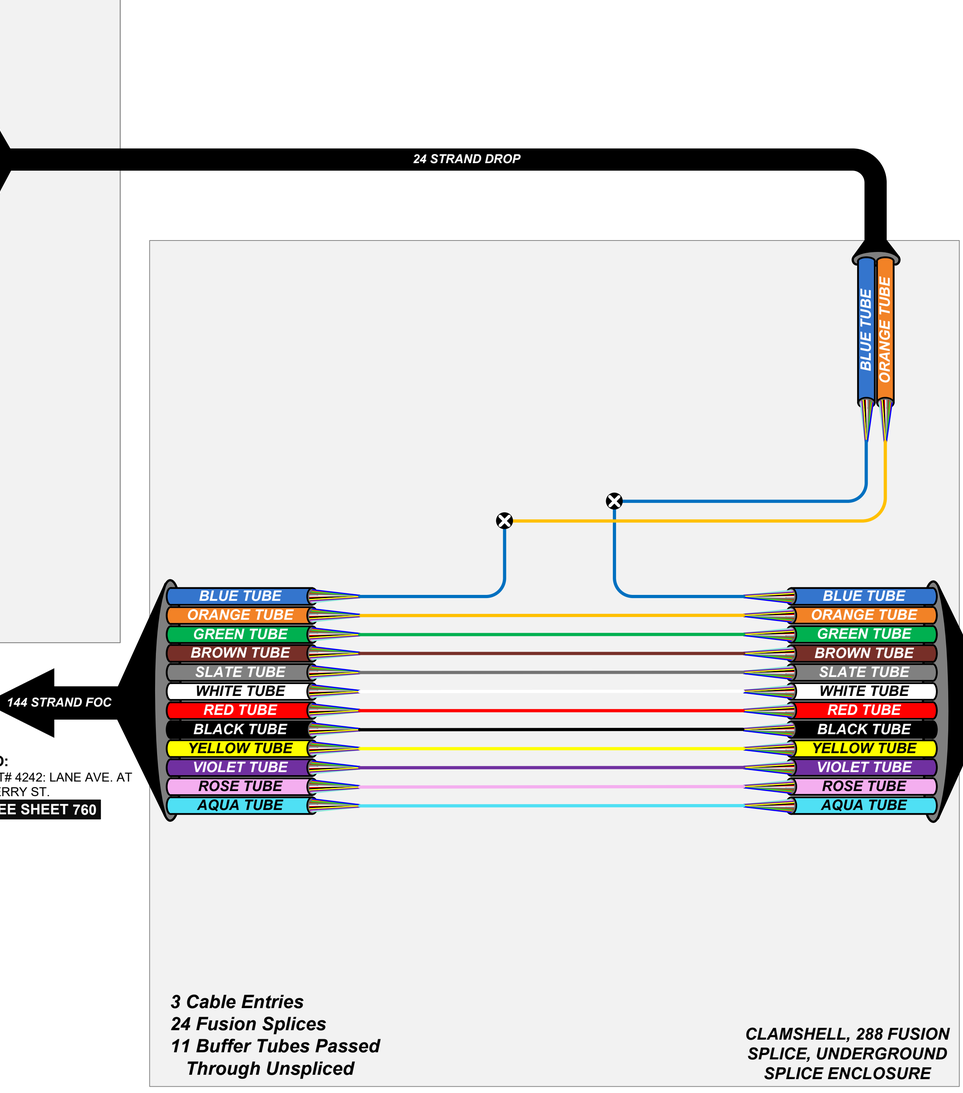
PORT 6: INT# 4162: LANE AVE. AT OLENTANGY RIVER RD.
SEE SHEET 758







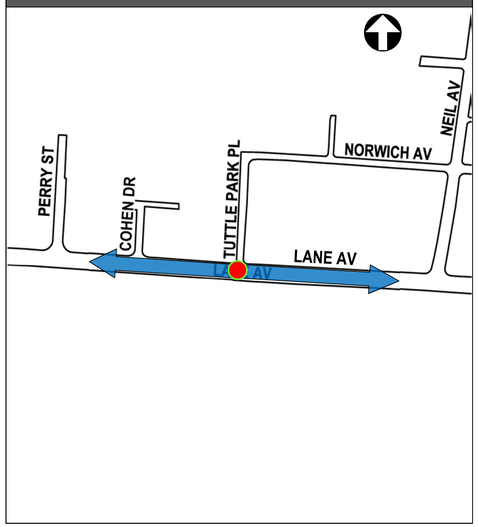
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4053

REFER TO SHEET 332 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

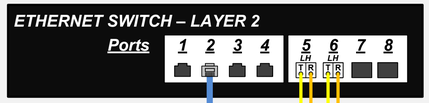
INT# 4053: LANE AVE. AT TUTTLE PARK PL.
COMMUNICATIONS DIAGRAM

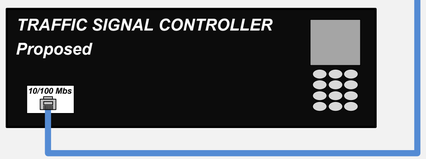
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

761
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TRAFFIC SIGNAL CABINET ASSEMBLY

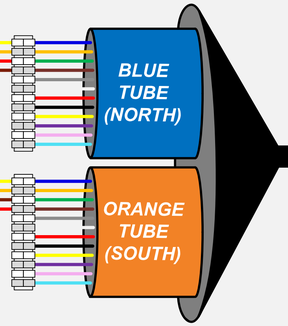




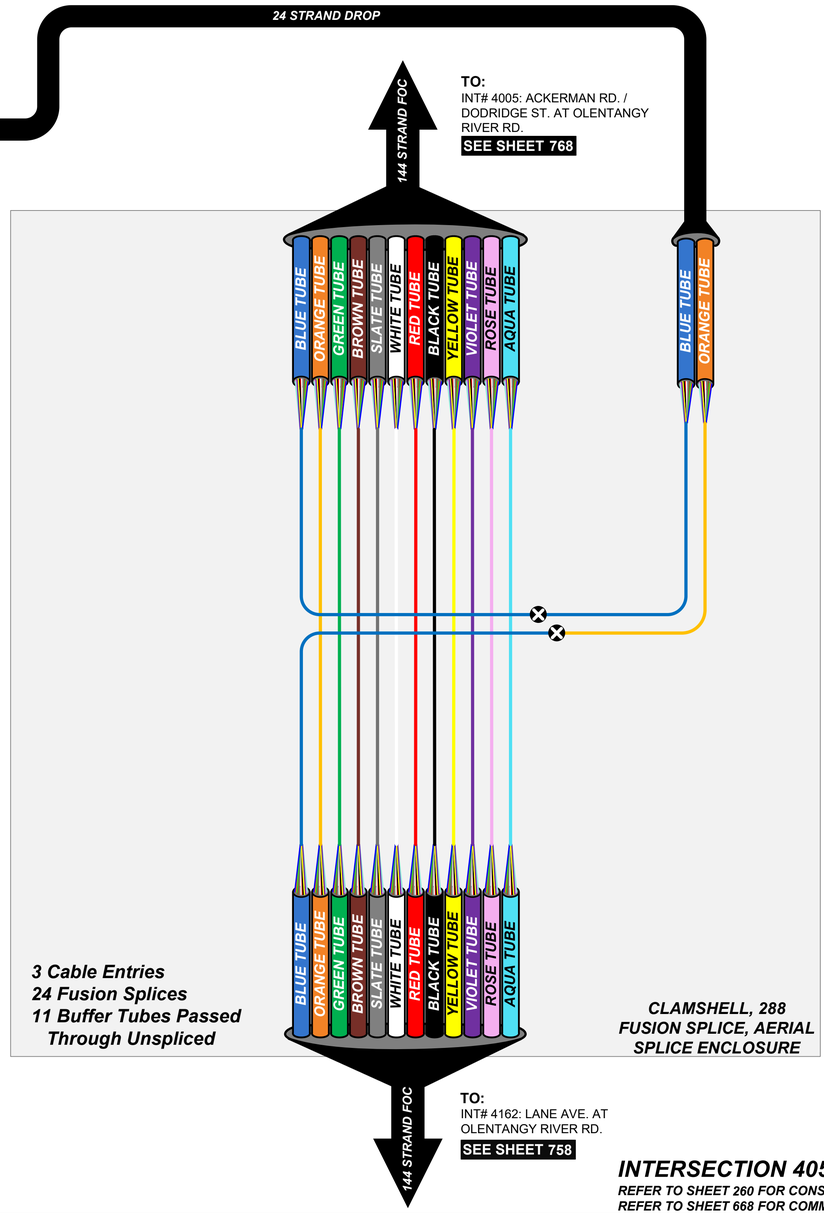
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4007: DODRIDGE ST. AT N HIGH ST.
SEE SHEET 717

PORT 6: PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
SEE SHEET 968



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4005: ACKERMAN RD. / DODRIDGE ST. AT OLENTANGY RIVER RD.
SEE SHEET 768

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

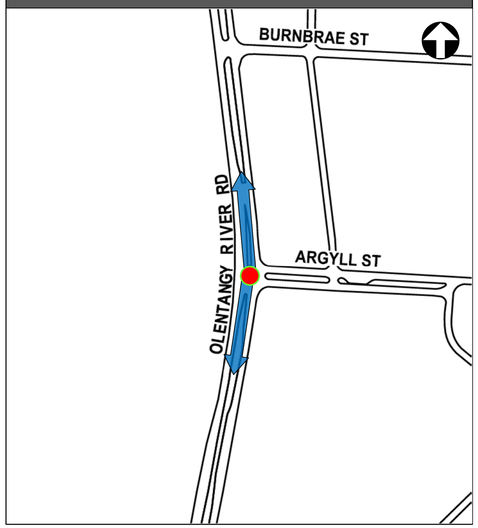
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 4162: LANE AVE. AT OLENTANGY RIVER RD.
SEE SHEET 758

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4054

REFER TO SHEET 260 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4054: ARGYLL ST. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

762
1000

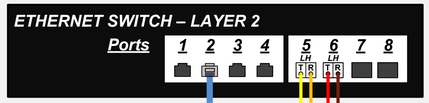
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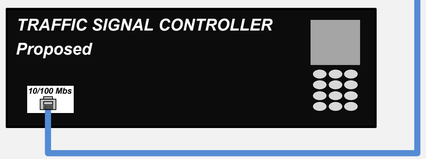
TRAFFIC SIGNAL CABINET ASSEMBLY

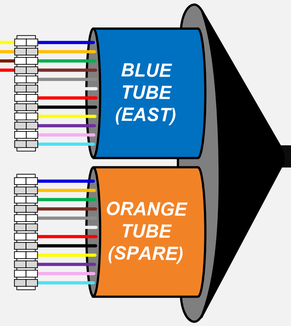
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4004: ACKERMAN RD. AT DEFIANCE DR.
SEE SHEET 767

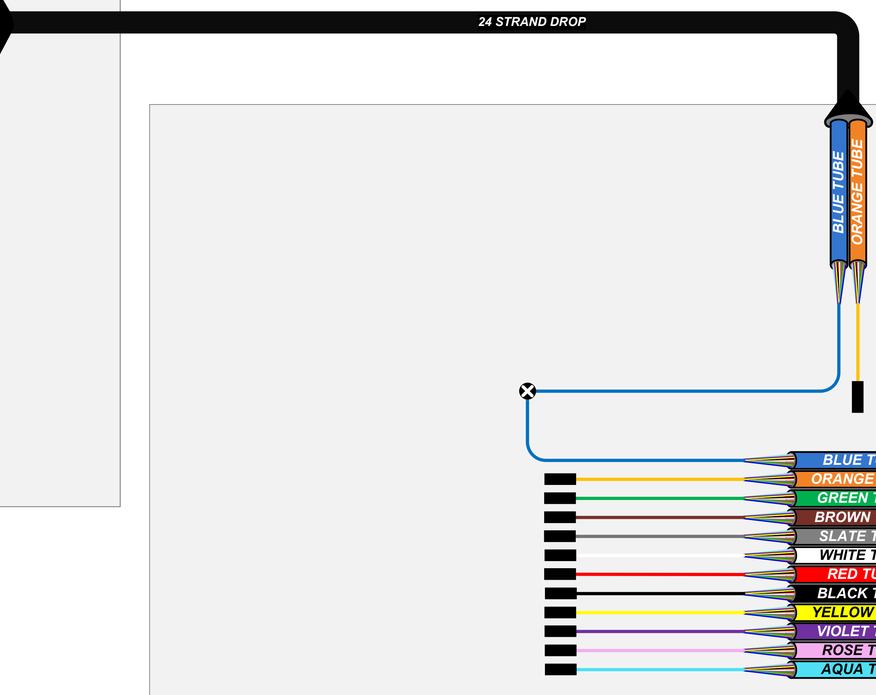
PORT 6: INT# 4001: ACKERMAN RD. AT SR 315 SB RAMPS
SEE SHEET 764







PATCH PANEL ENCLOSURE – 24 TERMINATION



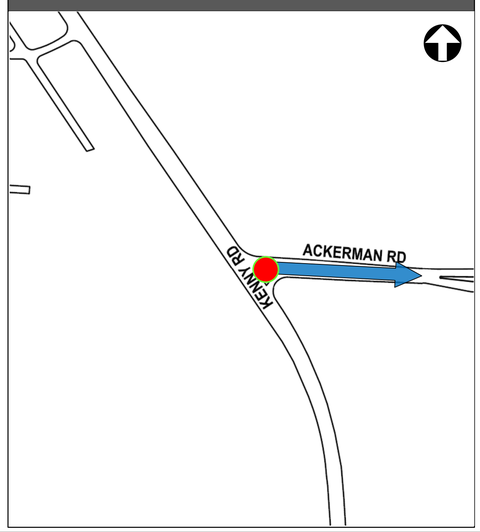
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4000

REFER TO SHEET 336 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4000: ACKERMAN RD. AT KENNY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

763
1000

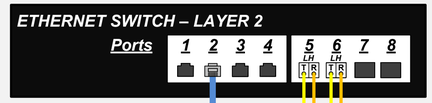
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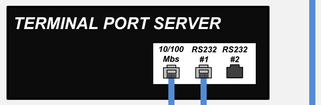
TRAFFIC SIGNAL CABINET ASSEMBLY

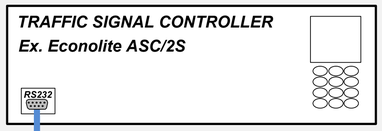
ETHERNET SWITCH PORT DESTINATION

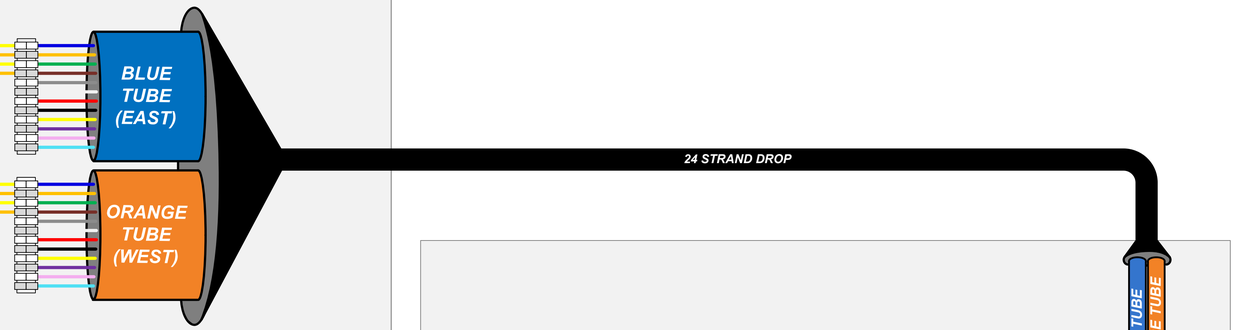
PORT 5: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 972

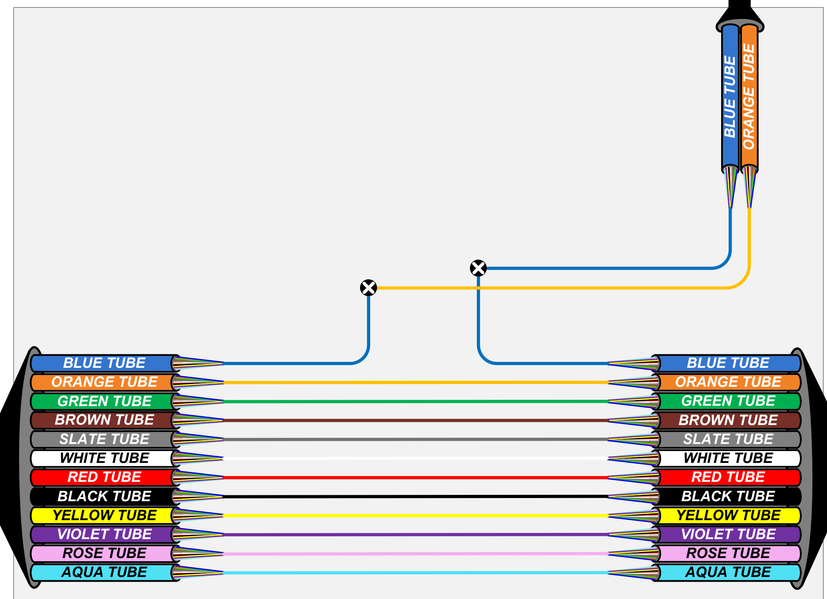
PORT 6: INT# 4000: ACKERMAN RD. AT KENNY RD.
SEE SHEET 763











TO:
INT# 4000: ACKERMAN RD. AT KENNY RD.
SEE SHEET 763

TO:
EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 972

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

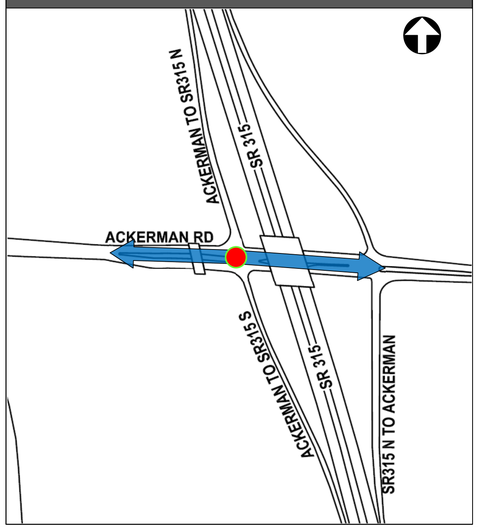
DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4001

REFER TO SHEET 337 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

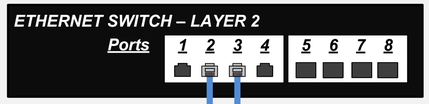
INT# 4001: ACKERMAN RD. AT SR 315 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

764
1000

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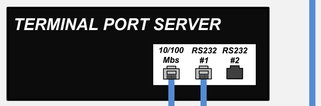
TRAFFIC SIGNAL CABINET ASSEMBLY

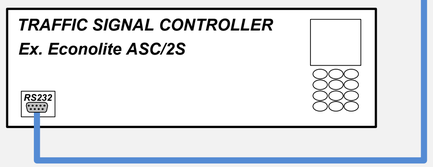


ETHERNET SWITCH PORT DESTINATION

PORT 3: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 972

TO:
EXISTING
COMMUNICATION
NODE# 315005.2: SR-315
AT ACKERMAN RD.
SEE SHEET 973

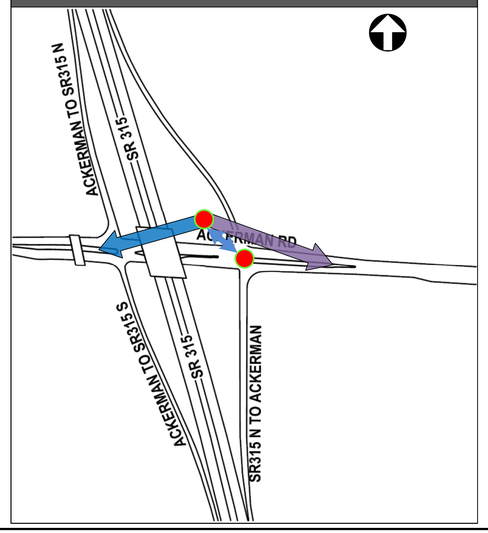




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4002
REFER TO SHEET 337 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4002: ACKERMAN RD. AT SR 315 NB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

765
1000

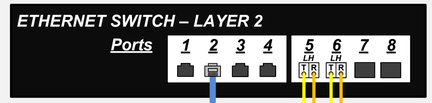
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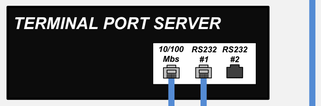
TRAFFIC SIGNAL CABINET ASSEMBLY

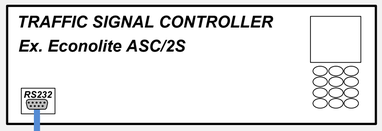
ETHERNET SWITCH PORT DESTINATION

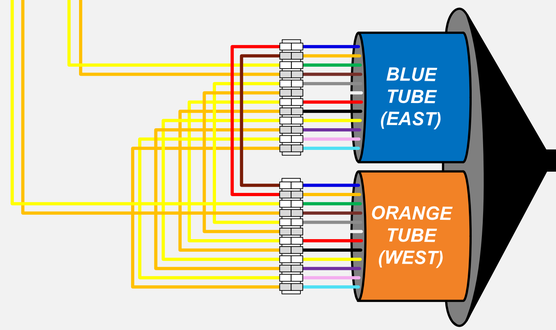
PORT 5: INT# 4005: ACKERMAN RD. / DODRIDGE ST. AT OLENTANGY RIVER RD.
SEE SHEET 768

PORT 6: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 972

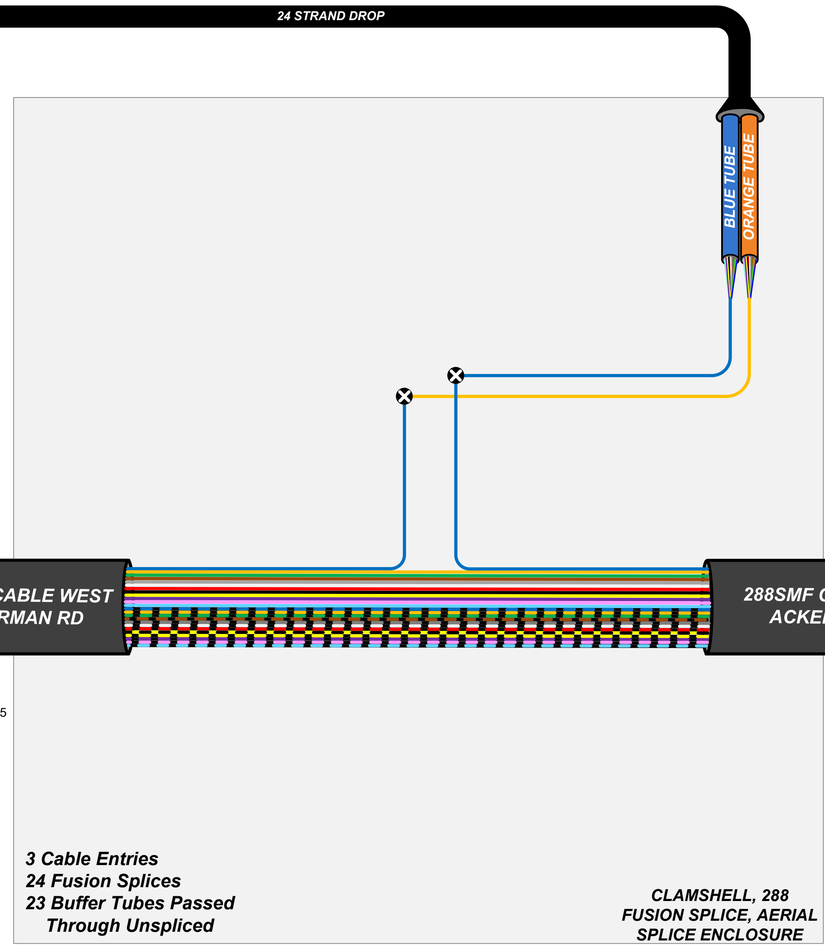








PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 973

TO:
INT# 4004: ACKERMAN RD. AT DEFIANCE DR.
SEE SHEET 767

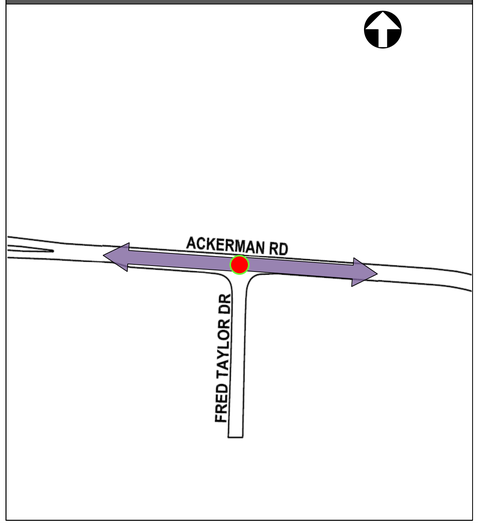
3 Cable Entries
24 Fusion Splices
23 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4003
REFER TO SHEET 338 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4003: ACKERMAN RD. AT FRED TAYLOR DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

766
1000

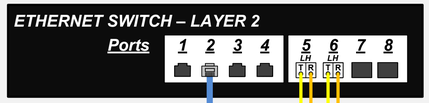
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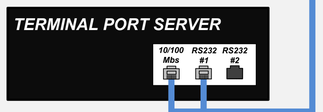
TRAFFIC SIGNAL CABINET ASSEMBLY

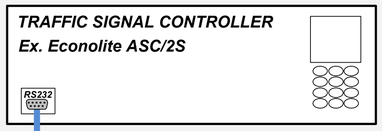
ETHERNET SWITCH PORT DESTINATION

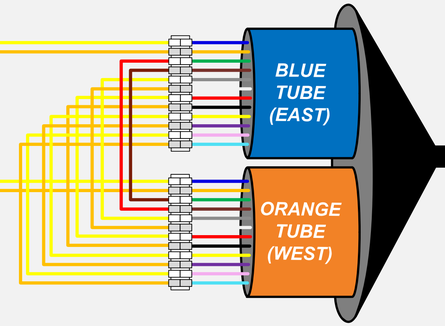
PORT 5: INT# 4008: DODRIDGE ST. AT NEIL AVE.
SEE SHEET 718

PORT 6: INT# 4000: ACKERMAN RD. AT KENNY RD.
SEE SHEET 763

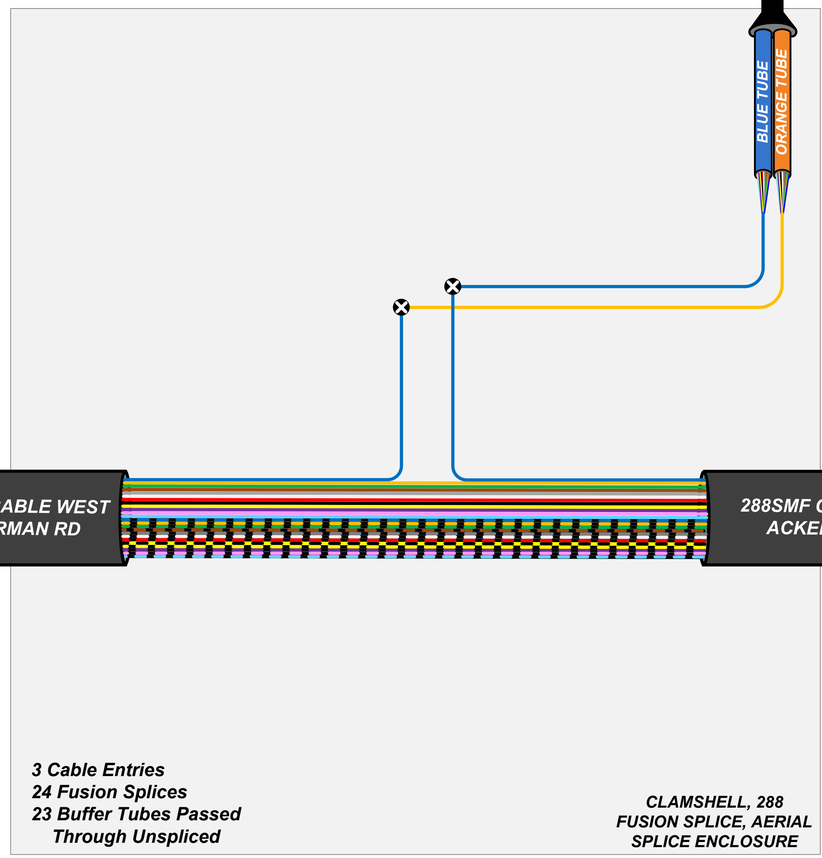








PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4003: ACKERMAN RD. AT FRED TAYLOR DR.
SEE SHEET 766

TO:
INT# 4005: ACKERMAN RD. / DODRIDGE ST. AT OLENTANGY RIVER RD.
SEE SHEET 768

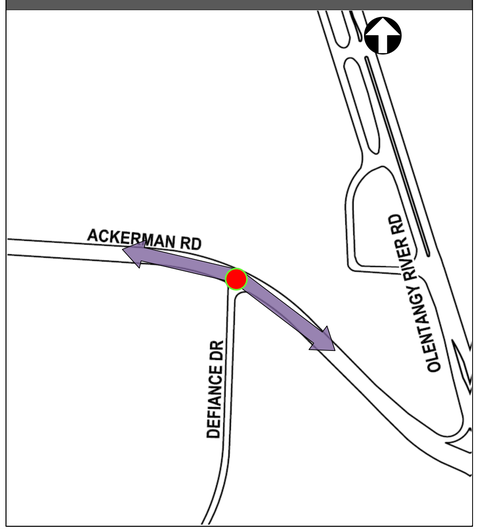
3 Cable Entries
24 Fusion Splices
23 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4004
REFER TO SHEET 339 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4004: ACKERMAN RD. AT DEFIANCE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4162: LANE AVE. AT OLENTANGY RIVER RD.
SEE SHEET 758

PORT 6: INT# 4003: ACKERMAN RD. AT FRED TAYLOR DR.
SEE SHEET 766

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 | 5 LH T R | 6 LH T R | 7 | 8

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S

RS232

CCTV FIELD BOX

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

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 4056: HARLEY DR. AT OLENTANGY RIVER RD.
SEE SHEET 770

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

ODOT FIBERS INSET DETAIL A
SEE SHEET 769

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

288SMF CABLE WEST ACKERMAN 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

144 STRAND FOC

TO:
INT# 4004: ACKERMAN RD. AT DEFIANCE DR.
SEE SHEET 767

TO:
INT# 4008: DODRIDGE ST. AT NEIL AVE.
SEE SHEET 718

6 Cable Entries
321 Fusion Splices
16 Coiled Buffer Tubes

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

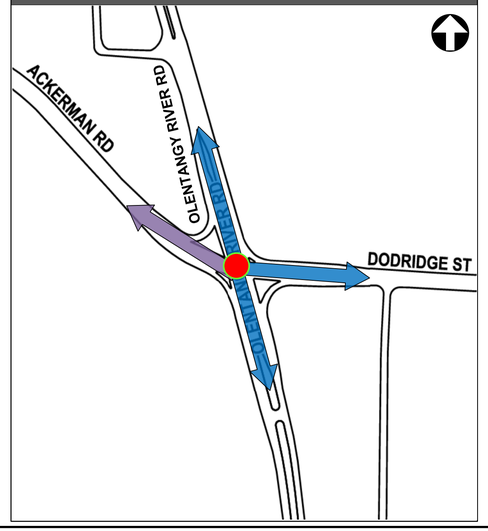
144 STRAND FOC

TO:
INT# 4054: ARGYLL ST. AT OLENTANGY RIVER RD.
SEE SHEET 762

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4005

REFER TO SHEET 262 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

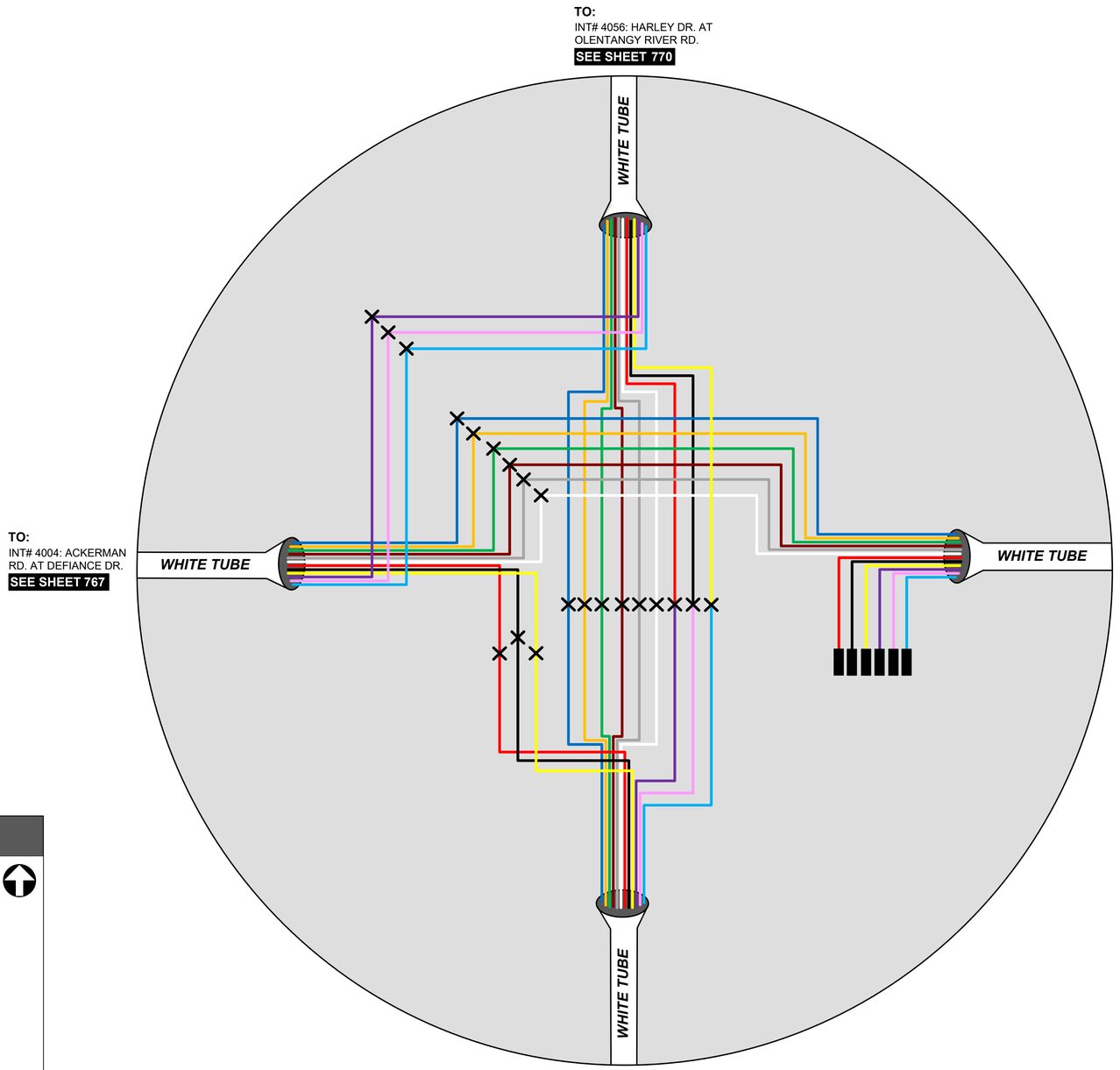
INT# 4005: ACKERMAN RD. / DODRIDGE ST. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

768
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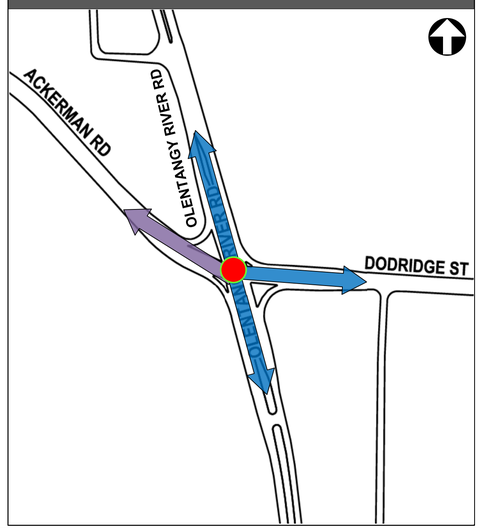


INSET DETAIL A
SEE SHEET 768

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4005

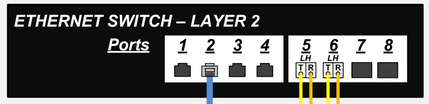
REFER TO SHEET 262 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

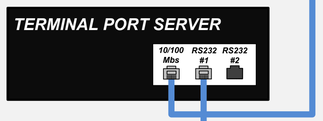
CIP: 540007 - 100006
PID NUMBER: 82573

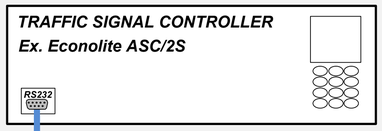
INT# 4005: ACKERMAN RD. / DODRIDGE ST. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY



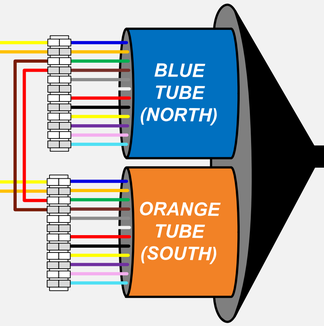




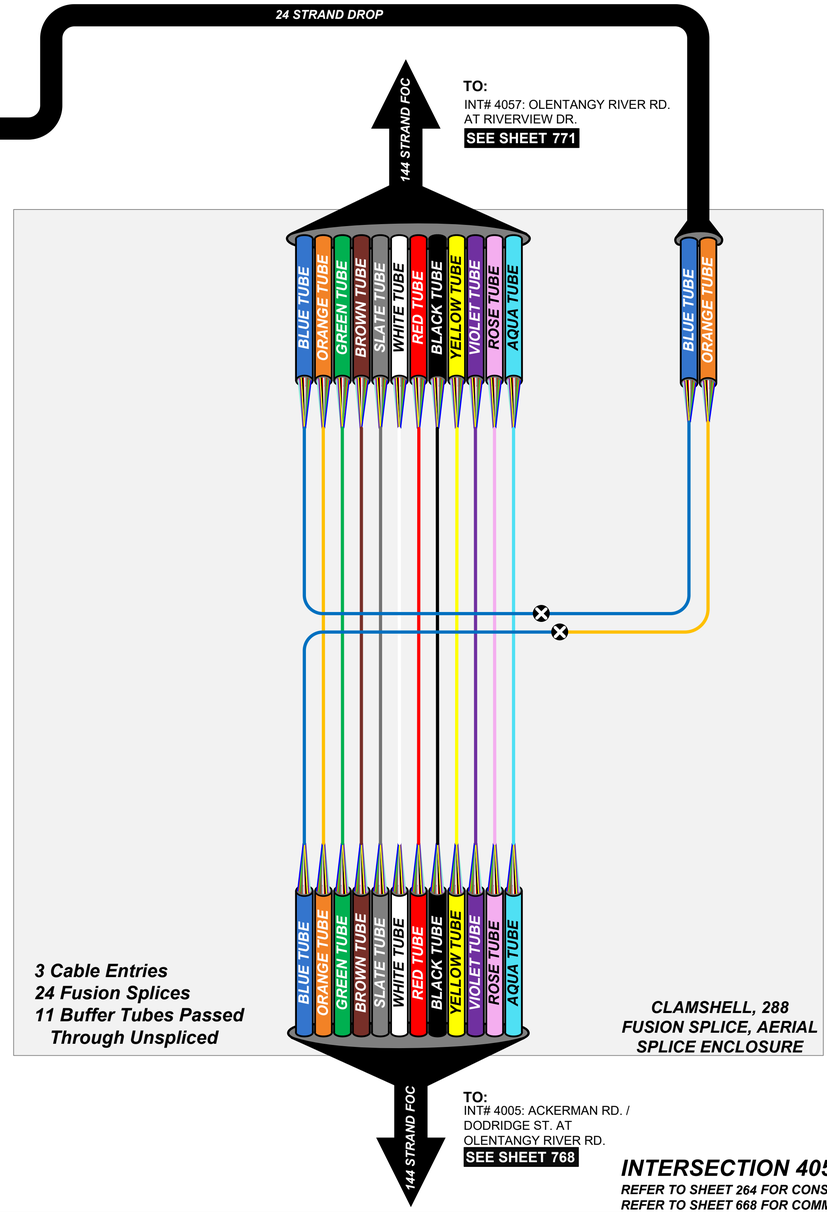
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4058: KOHL'S / UNION CEMETERY AT OLENTANGY RIVER RD.
SEE SHEET 772

PORT 6: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 972



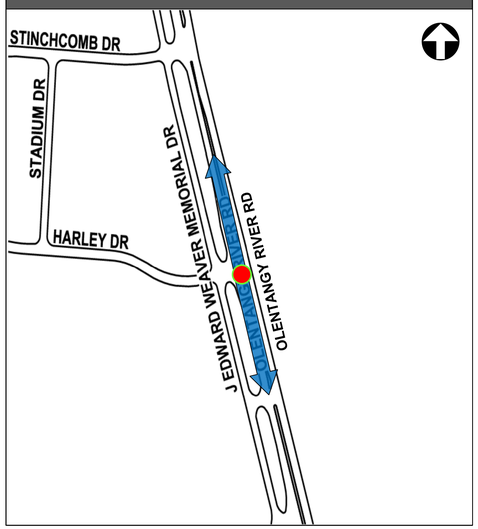
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4056

REFER TO SHEET 264 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

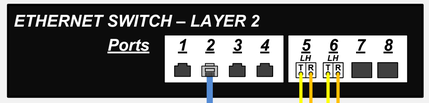
INT# 4056: HARLEY DR. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

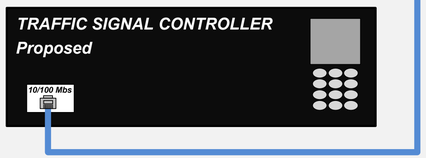
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

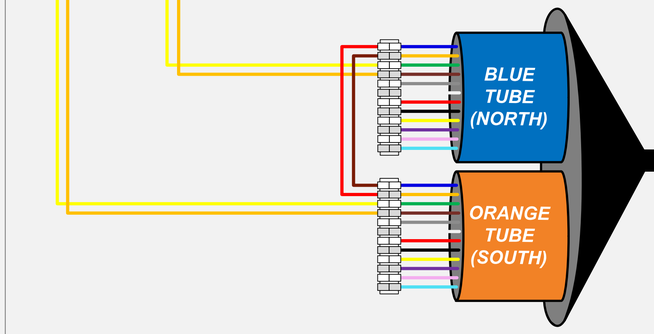




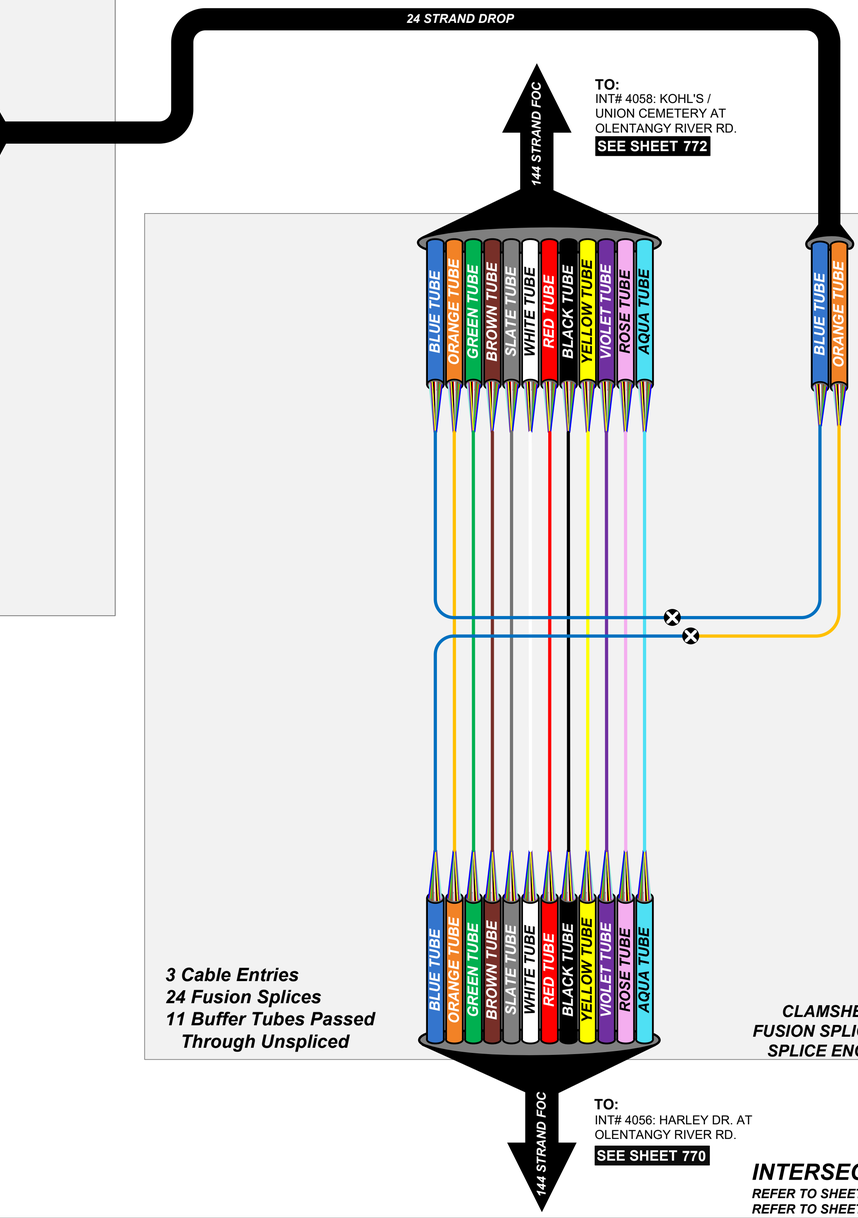
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4058: KOHL'S / UNION CEMETERY AT OLENTANGY RIVER RD.
SEE SHEET 772

PORT 6: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 972



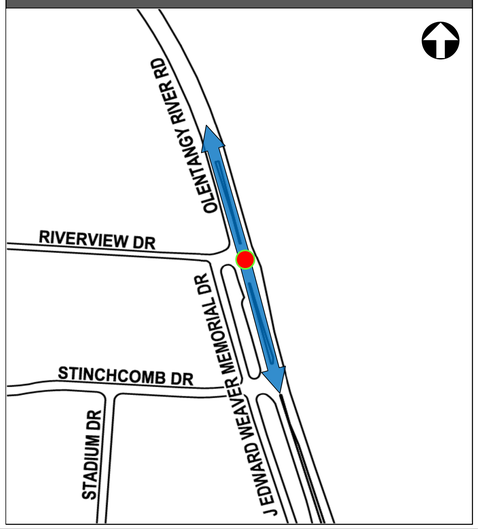
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4057

REFER TO SHEET 265 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

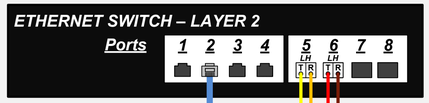
INT# 4057: OLENTANGY RIVER RD. AT RIVERVIEW DR.
COMMUNICATIONS DIAGRAM

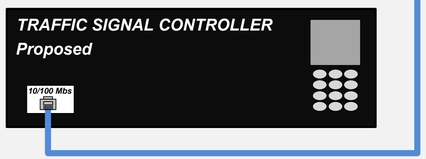
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

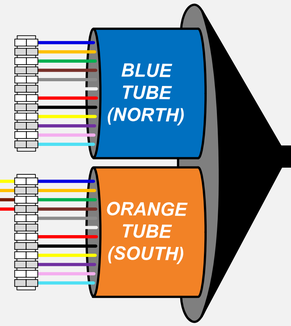




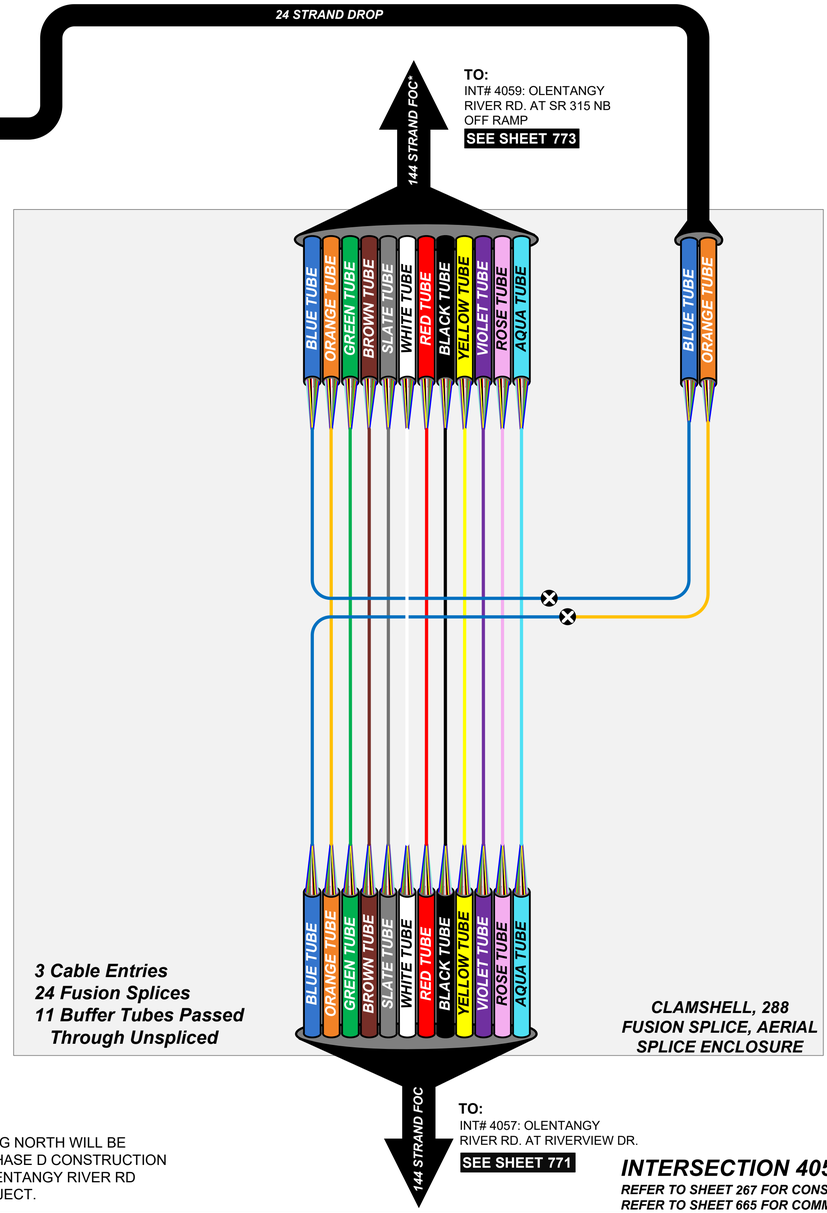
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4056: HARLEY DR. AT OLENTANGY RIVER RD.
SEE SHEET 770

PORT 6: INT# 4057: OLENTANGY RIVER RD. AT RIVERVIEW DR.
SEE SHEET 771



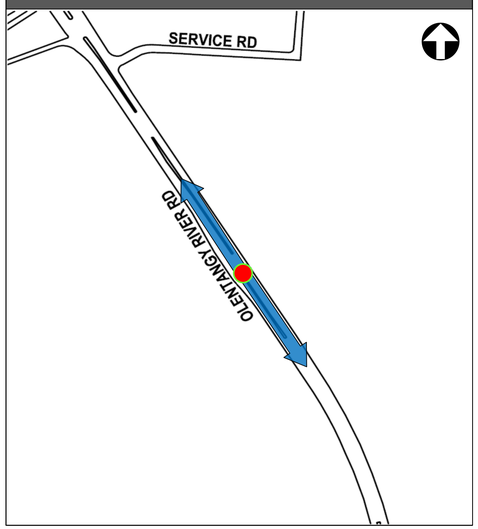
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



*PROPOSED 144 STRAND FOC GOING NORTH WILL BE INSTALLED AT THE END OF CTSS PHASE D CONSTRUCTION IN COORDINATION WITH E03401 OLENTANGY RIVER RD INTERCHANGE IMPROVEMENT PROJECT.

INTERSECTION 4058

REFER TO SHEET 267 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

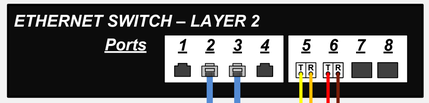
INT# 4058: KOHL'S / UNION CEMETERY AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

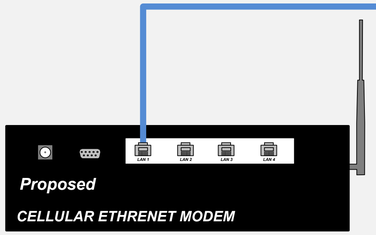
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TRAFFIC SIGNAL CABINET ASSEMBLY





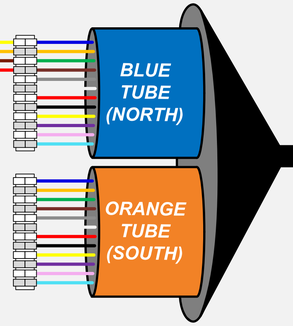


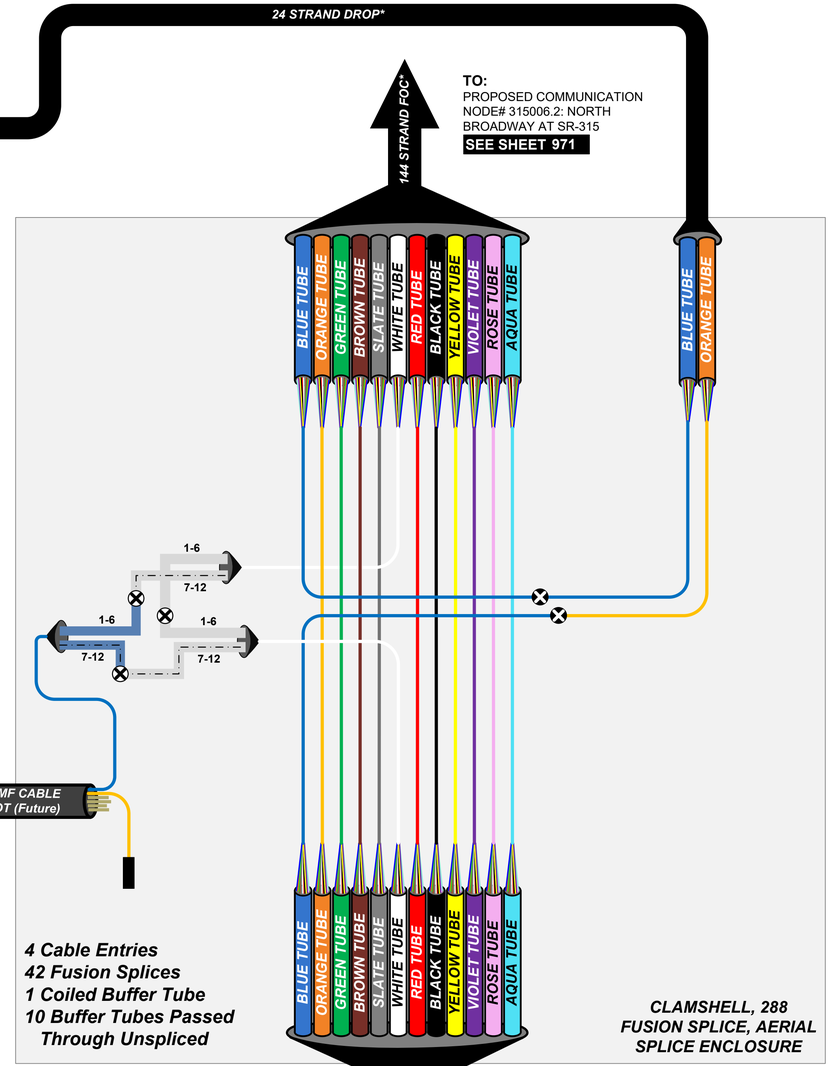
ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

PORT 5: INT# 4063: SR 315 NB ON RAMP AT W NORTH BROADWAY
SEE SHEET 781

PORT 6: PROPOSED COMMUNICATION NODE# 315006.2: NORTH BROADWAY AT SR-315
SEE SHEET 970



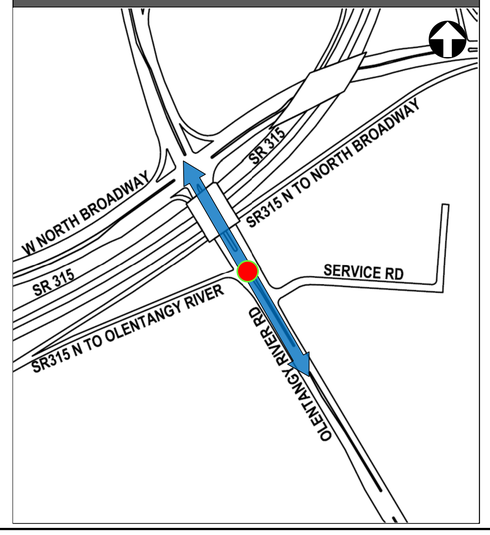


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION TO BE TEMPORARILY CONNECTED TO CTSS NETWORK THROUGH CELLUALR ETHERNET MODEM.

*PROPOSED 144 STRAND FOC, 24 STRAND DROP CABLE AND PATCH CABLES WILL BE INSTALLED AT THE END OF CTSS PHASE D CONSTRUCTION IN COORDINATION WITH E03401 OLENTANGY RIVER RD INTERCHANGE IMPROVEMENT PROJECT.

INTERSECTION 4059

REFER TO SHEET 268 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4059: OLENTANGY RIVER RD. AT SR 315 NB OFF RAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

PORT 5: INT# 4248: MCCONNELL HEART HOSPITAL AT OLENTANGY RIVER RD.
SEE SHEET 777

PORT 6: INT# 4105: SHATTUCK AVE. AT W NORTH BROADWAY
SEE SHEET 779

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 & 6: T/R)

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S

RS232

Proposed
CELLULAR ETHRENET MODEM

LAN 1 LAN 2 LAN 3 LAN 4

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP*
24 STRAND DROP*

144 STRAND FOC*

TO:
INT# 4061: OLENTANGY RIVER RD. AT SR 315 SB RAMP / THOMAS LN.
SEE SHEET 776

ODOT FIBERS INSET DETAIL A
SEE SHEET 775

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

144 STRAND FOC*

TO:
INT# 4062: RIVERSIDE HOSPITAL / SR 315 NB OFF RAMP AT W NORTH BROADWAY
SEE SHEET 780

144 STRAND FOC*

TO:
INT# 4063: SR 315 NB ON RAMP AT W NORTH BROADWAY
SEE SHEET 781

144 STRAND FOC*

TO:
PROPOSED COMMUNICATION NODE# 315006.2: NORTH BROADWAY AT SR-315
SEE SHEET 971

6 Cable Entries
228 Fusion Splices
12 Coiled Buffer Tubes

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

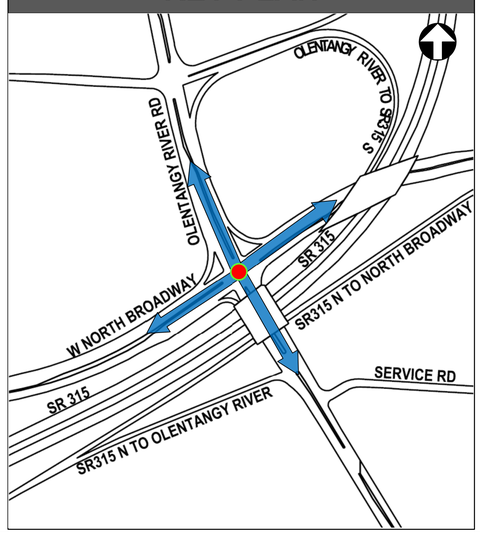
INTERSECTION TO BE TEMPORARILY CONNECTED TO CTSS NETWORK THROUGH CELLUALR ETHERNET MODEM.

*PROPOSED 144 STRAND FOC, 24 STRAND DROP CABLES AND PATCH CABLES WILL BE INSTALLED AT THE END OF CTSS PHASE D CONSTRUCTION IN COORDINATION WITH E03401 OLENTANGY RIVER RD INTERCHANGE IMPROVEMENT PROJECT.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4060

REFER TO SHEET 269 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4060: OLENTANGY RIVER RD. AT W NORTH BROADWAY
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

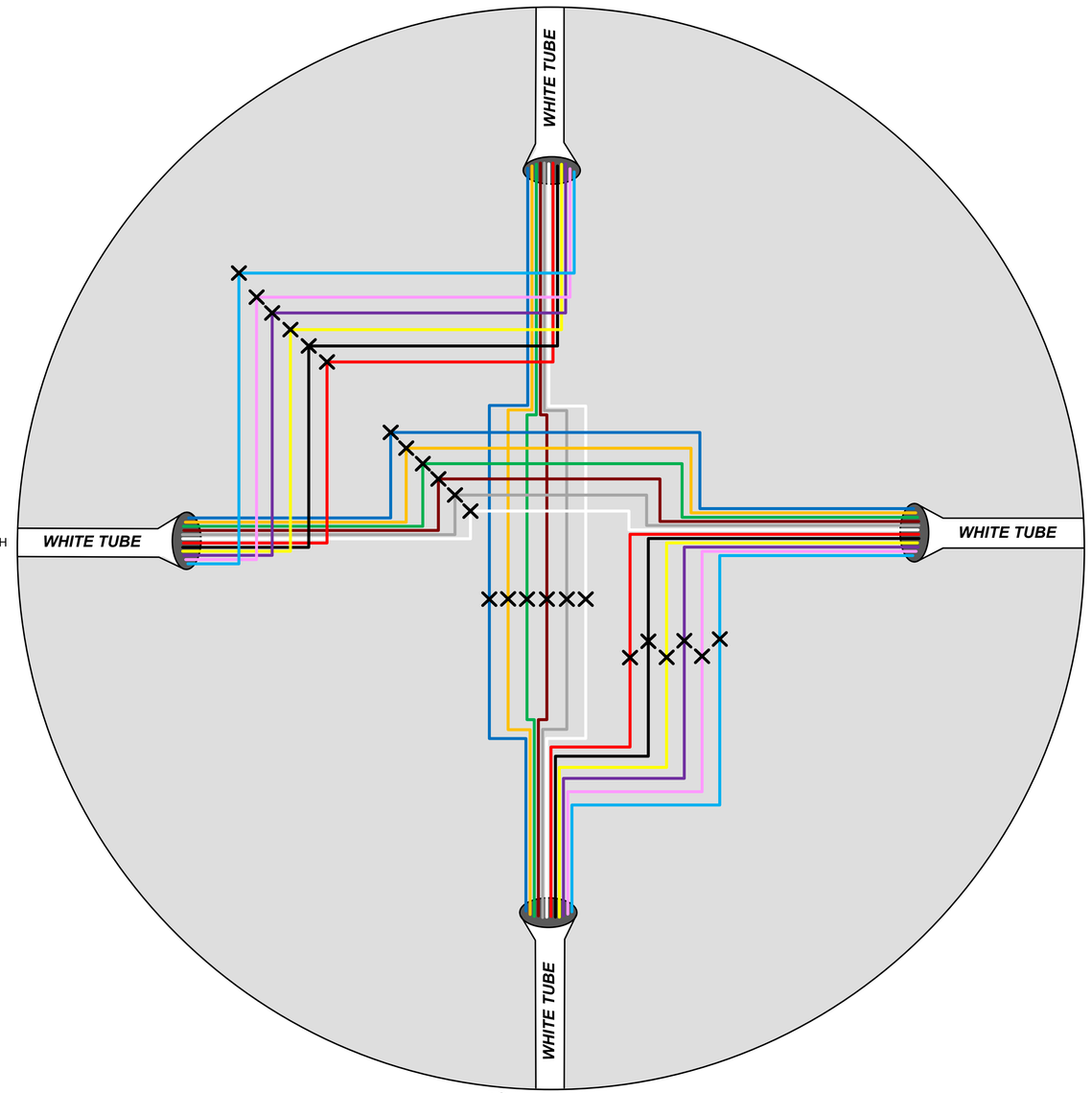
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TO:
INT# 4061: OLENTANGY RIVER RD.
AT SR 315 SB RAMP / THOMAS LN.
SEE SHEET 776

TO:
INT# 4062: RIVERSIDE
HOSPITAL / SR 315 NB
OFF RAMP AT W NORTH
BROADWAY
SEE SHEET 780



TO:
INT# 4063: SR 315 NB ON
RAMP AT W NORTH
BROADWAY
SEE SHEET 781

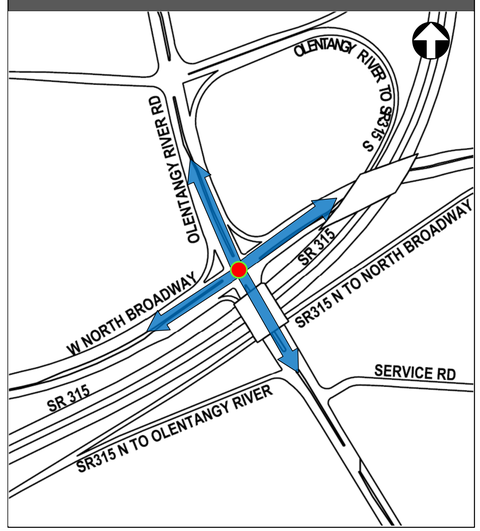
TO:
PROPOSED COMMUNICATION
NODE# 315006.2: NORTH
BROADWAY AT SR-315
SEE SHEET 971

INSET DETAIL A
SEE SHEET 774

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100006
PID NUMBER: 82573

COMMUNICATIONS DIAGRAM

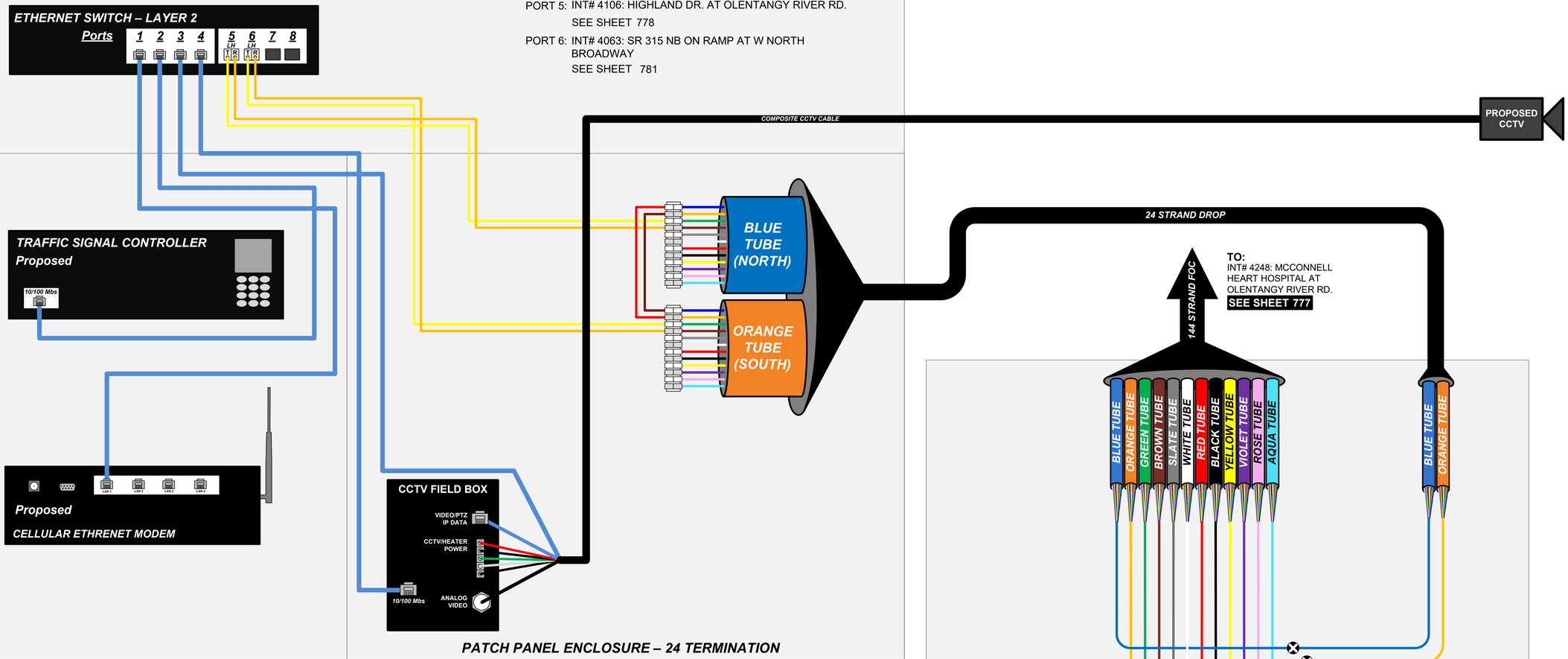
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4106: HIGHLAND DR. AT OLENTANGY RIVER RD.
SEE SHEET 778

PORT 6: INT# 4063: SR 315 NB ON RAMP AT W NORTH BROADWAY
SEE SHEET 781



PATCH PANEL ENCLOSURE – 24 TERMINATION

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

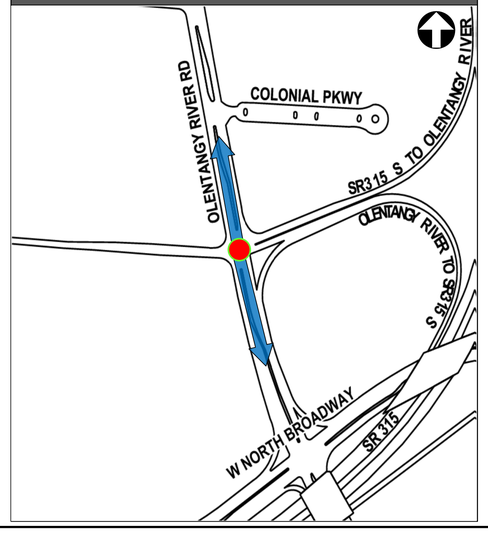
INTERSECTION TO BE TEMPORARILY CONNECTED TO CTSS NETWORK THROUGH CELLUALR ETHERNET MODEM.

*PROPOSED 144 STRAND FOC, 24 STRAND DROP CABLE AND PATCH CABLES WILL BE INSTALLED AT THE END OF CTSS PHASE D CONSTRUCTION IN COORDINATION WITH E03401 OLENTANGY RIVER RD INTERCHANGE IMPROVEMENT PROJECT.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4061
REFER TO SHEET 271 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4061: OLENTANGY RIVER RD. AT SR 315 SB RAMP / THOMAS LN.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 | 5 (LH T R) 6 (LH T R) 7 8

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S

RS232

Proposed
CELLULAR ETHRENET MODEM

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4106: HIGHLAND DR. AT OLENTANGY RIVER RD.
SEE SHEET 778

PORT 6: INT# 4060: OLENTANGY RIVER RD. AT W NORTH BROADWAY
SEE SHEET 774

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP

144 STRAND FOC

TO:
INT# 4106: HIGHLAND DR. AT OLENTANGY RIVER RD.
SEE SHEET 778

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

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

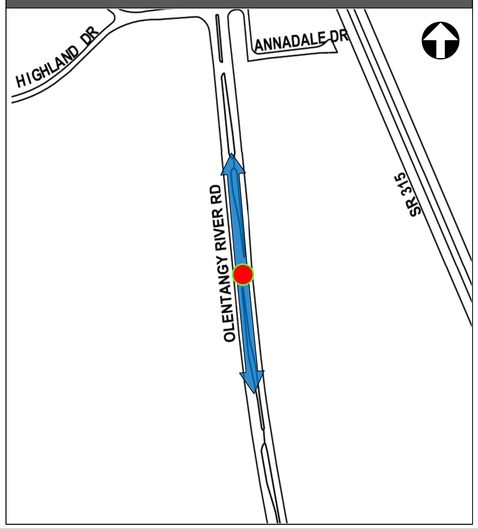
144 STRAND FOC

TO:
INT# 4061: OLENTANGY RIVER RD. AT SR 315 SB RAMP / THOMAS LN.
SEE SHEET 776

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4248
REFER TO SHEET 272 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4248: MCCONNELL HEART HOSPITAL AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

777
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

Proposed
CELLULAR ETHRENET MODEM

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4248: MCCONNELL HEART HOSPITAL AT OLENTANGY RIVER RD.
SEE SHEET 777

PORT 6: INT# 4061: OLENTANGY RIVER RD. AT SR 315 SB RAMP / THOMAS LN.
SEE SHEET 776

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

24 STRAND DROP

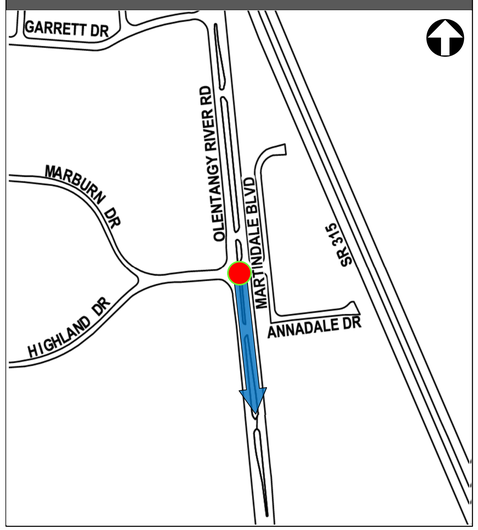
PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

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

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

144 STRAND FOC

TO:
INT# 4248: MCCONNELL HEART HOSPITAL AT OLENTANGY RIVER RD.
SEE SHEET 777

INTERSECTION 4106

REFER TO SHEET 273 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

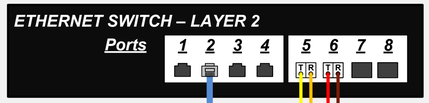
CIP: 540007 - 100006
PID NUMBER: 82573

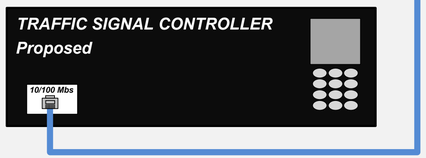
INT# 4106: HIGHLAND DR. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

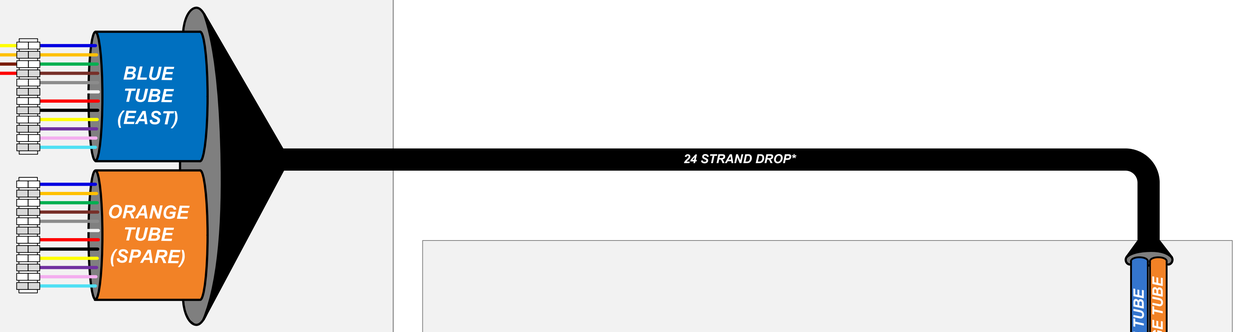




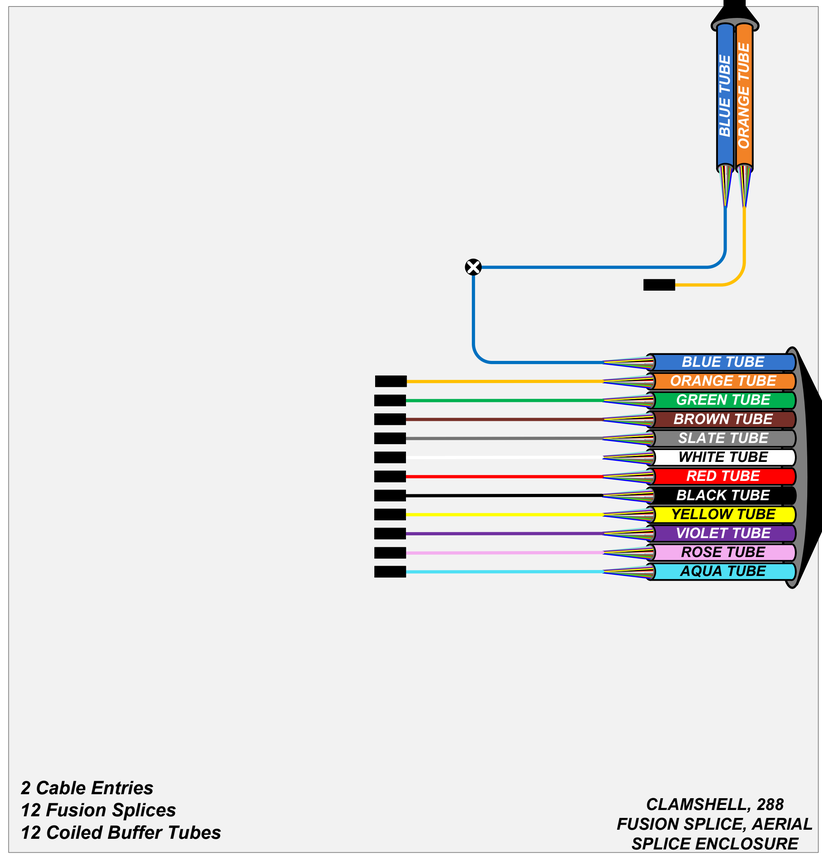
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4060: OLENTANGY RIVER RD. AT W NORTH BROADWAY
SEE SHEET 774

PORT 6: INT# 4062: RIVERSIDE HOSPITAL / SR 315 NB OFF RAMP AT W NORTH BROADWAY
SEE SHEET 780



PATCH PANEL ENCLOSURE – 24 TERMINATION



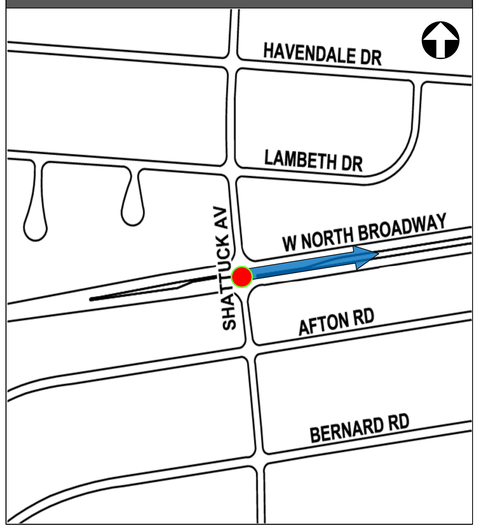
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION TO BE TEMPORARILY CONNECTED TO CTSS NETWORK THROUGH CELLUALR ETHERNET MODEM.

*PROPOSED 144 STRAND FOC, 24 STRAND DROP CABLE AND PATCH CABLES WILL BE INSTALLED AT THE END OF CTSS PHASE D CONSTRUCTION IN COORDINATION WITH E03401 OLENTANGY RIVER RD INTERCHANGE IMPROVEMENT PROJECT.

INTERSECTION 4105

REFER TO SHEET 555 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

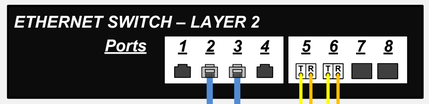
CIP: 540007 - 100006
PID NUMBER: 82573

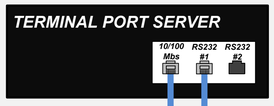
INT# 4105: SHATTUCK AVE. AT W NORTH BROADWAY
COMMUNICATIONS DIAGRAM

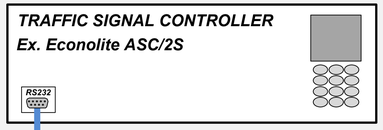
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

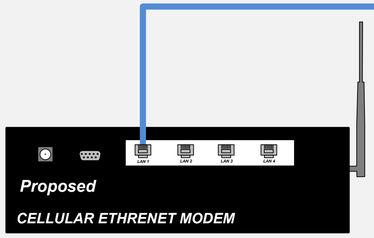
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TRAFFIC SIGNAL CABINET ASSEMBLY







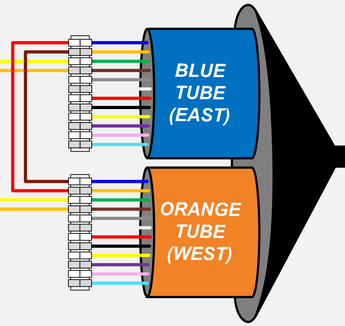


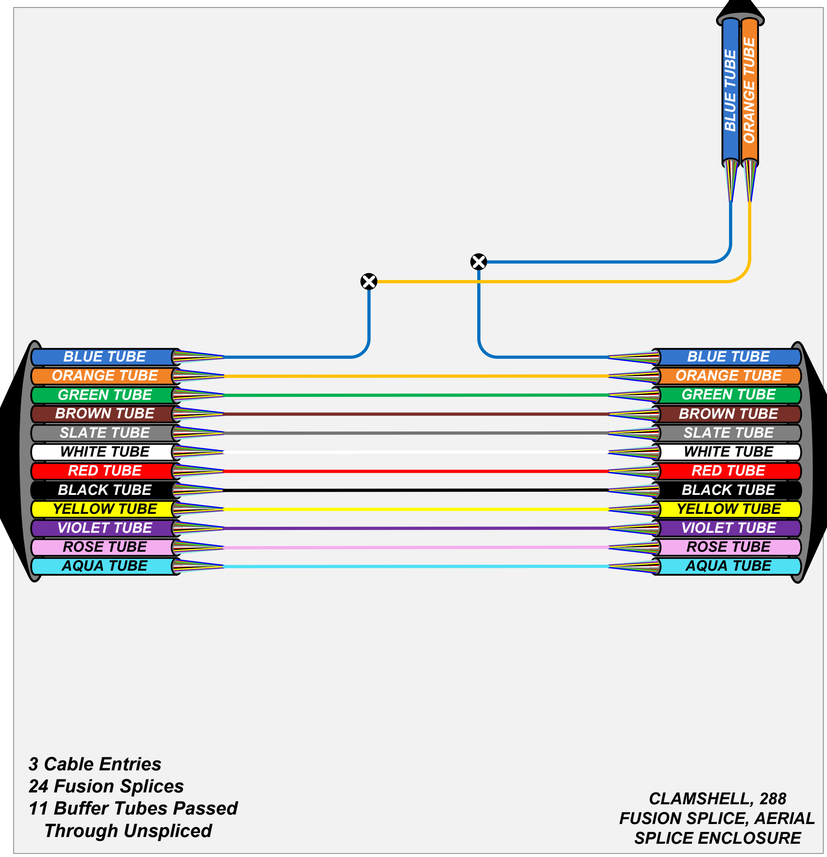
ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

PORT 5: PROPOSED COMMUNICATION NODE# 315006.2: NORTH BROADWAY AT SR-315
SEE SHEET 970

PORT 6: INT# 4105: SHATTUCK AVE. AT W NORTH BROADWAY
SEE SHEET 779





TO:
INT# 4105: SHATTUCK AVE. AT W NORTH BROADWAY
SEE SHEET 779

TO:
INT# 4060: OLENTANGY RIVER RD. AT W NORTH BROADWAY
SEE SHEET 774

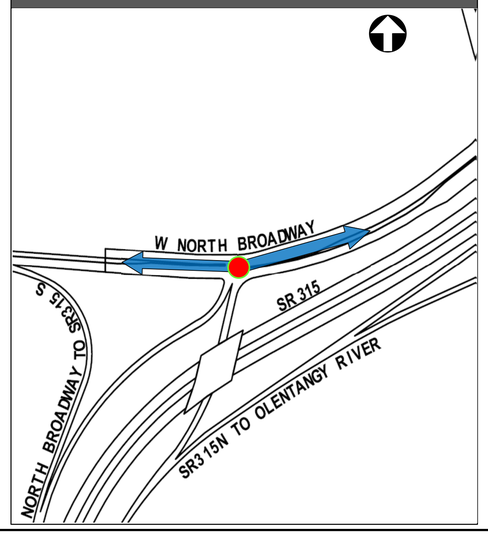
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION TO BE TEMPORARILY CONNECTED TO CTSS NETWORK THROUGH CELLUALR ETHERNET MODEM.

*PROPOSED 144 STRAND FOC, 24 STRAND DROP CABLE AND PATCH CABLES WILL BE INSTALLED AT THE END OF CTSS PHASE D CONSTRUCTION IN COORDINATION WITH E03401 OLENTANGY RIVER RD INTERCHANGE IMPROVEMENT PROJECT.

INTERSECTION 4062

REFER TO SHEET 556 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

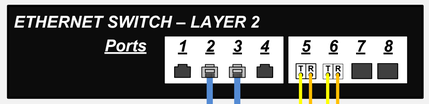
CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4062: RIVERSIDE HOSPITAL / SR 315 NB OFF RAMP AT W NORTH BROADWAY
COMMUNICATIONS DIAGRAM

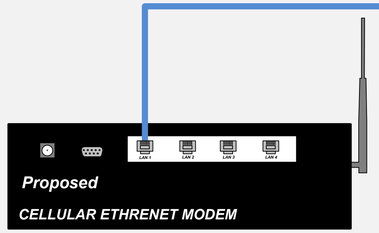
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY





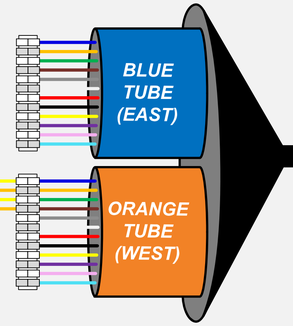


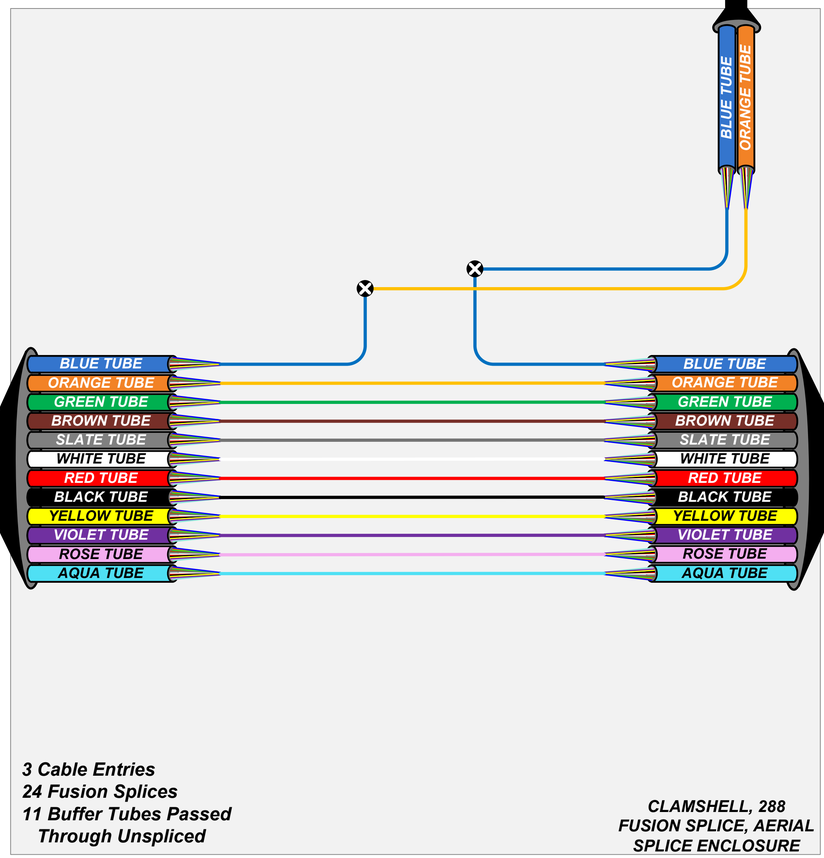
ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

PORT 5: INT# 4059: OLENTANGY RIVER RD. AT SR 315 NB OFF RAMP
SEE SHEET 773

PORT 6: INT# 4061: OLENTANGY RIVER RD. AT SR 315 SB RAMP / THOMAS LN.
SEE SHEET 776

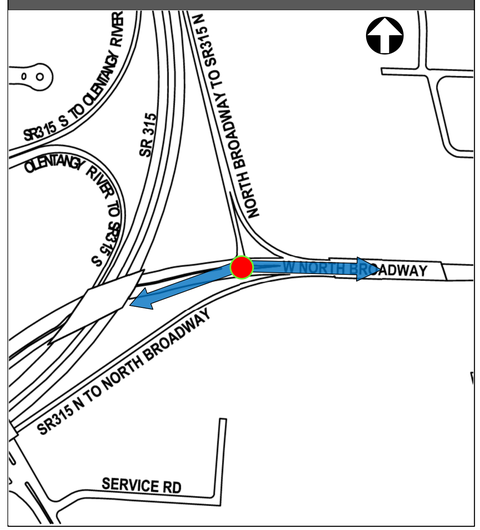




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION TO BE TEMPORARILY CONNECTED TO CTSS NETWORK THROUGH CELLUALR ETHERNET MODEM.

*PROPOSED 144 STRAND FOC, 24 STRAND DROP CABLE AND PATCH CABLES WILL BE INSTALLED AT THE END OF CTSS PHASE D CONSTRUCTION IN COORDINATION WITH E03401 OLENTANGY RIVER RD INTERCHANGE IMPROVEMENT PROJECT.

INTERSECTION 4063

REFER TO SHEET 559 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

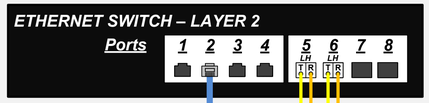
INT# 4063: SR 315 NB ON RAMP AT W NORTH BROADWAY
COMMUNICATIONS DIAGRAM

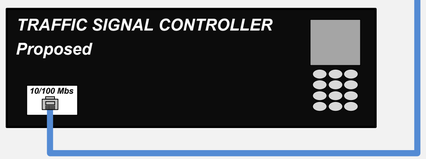
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

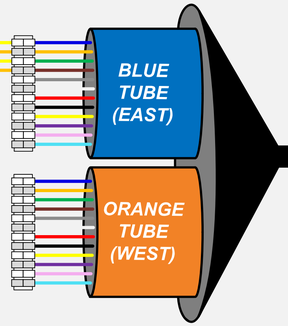




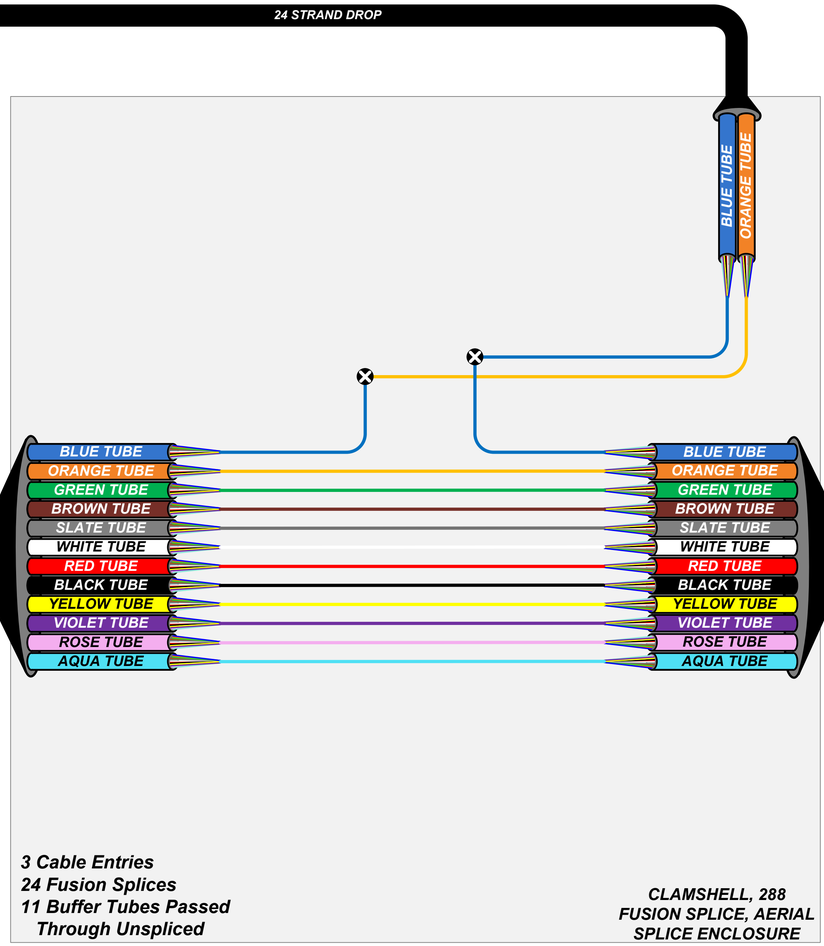
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4035: COMO AVE. AT N HIGH ST.
SEE SHEET 724

PORT 6: EXISTING COMMUNICATION NODE# 315007.8: SR-315 AT HENDERSON RD.
SEE SHEET 988



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4063: SR 315 NB ON RAMP AT W NORTH BROADWAY
SEE SHEET 781

TO:
INT# 4036: N HIGH ST. AT NORTH BROADWAY
SEE SHEET 725

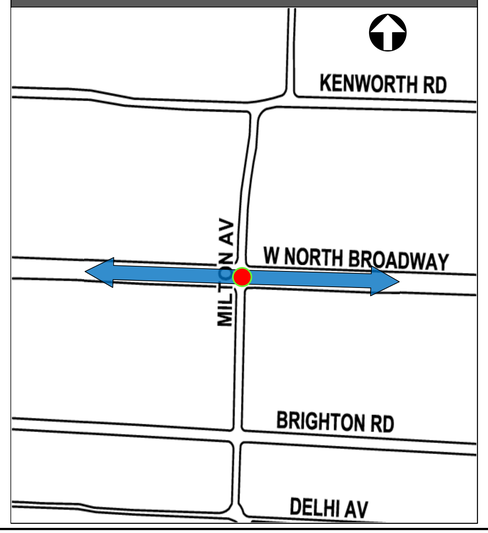
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



*PROPOSED 144 STRAND FOC GOING WEST WILL BE INSTALLED AT THE END OF CTSS PHASE D CONSTRUCTION IN COORDINATION WITH E03401 OLENTANGY RIVER RD INTERCHANGE IMPROVEMENT PROJECT.

INTERSECTION 4064
REFER TO SHEET 561 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

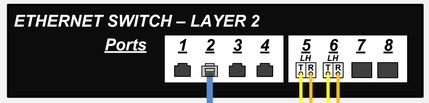
INT# 4064: MILTON AVE. AT W NORTH BROADWAY
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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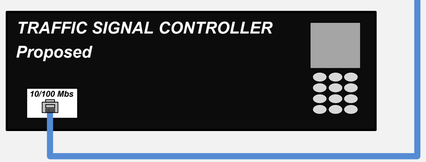
TRAFFIC SIGNAL CABINET ASSEMBLY

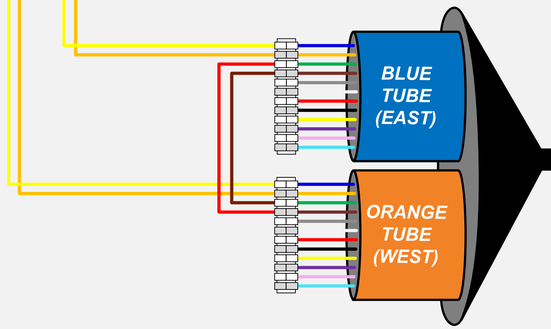


ETHERNET SWITCH PORT DESTINATION

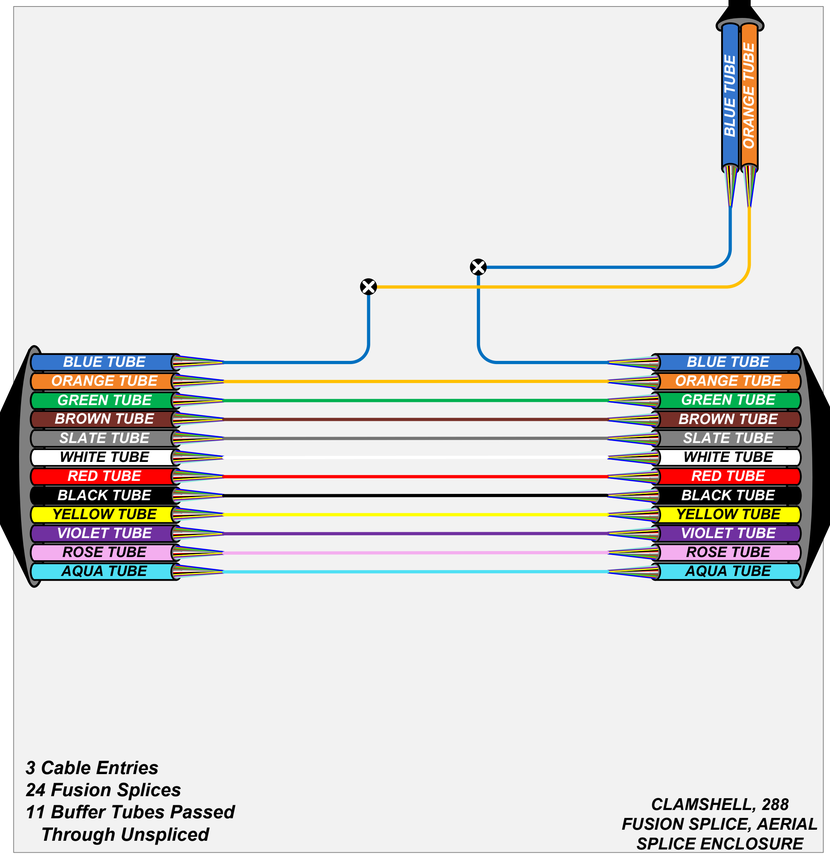
PORT 5: INT# 3046: INDIANOLA AVE. AT OAKLAND PARK AVE.
SEE SHEET 798

PORT 6: EXISTING COMMUNICATION NODE# 315007.8: SR-315 AT HENDERSON RD.
SEE SHEET 988





PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4036: N HIGH ST. AT NORTH BROADWAY
SEE SHEET 725

TO:
INT# 3047: E NORTH BROADWAY AT INDIANOLA AVE.
SEE SHEET 797

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3069
REFER TO SHEET 564 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 666 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3069: CALUMET ST. AT E NORTH BROADWAY
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

783
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 972

PORT 6: INT# 3040: FOURTH ST. AT HUDSON ST.
SEE SHEET 786

EXISTING CCTV CABINET HUDSON ST. AT INDIANOLA AVE. (SW)

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

COMPOSITE CCTV CABLE

PROPOSED CCTV

BLUE TUBE (NORTH)

ORANGE TUBE (EAST)

24 STRAND DROP

144 STRAND FOC

TO:
INT# 3025: ARCADIA AVE. AT INDIANOLA AVE.
SEE SHEET 790

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

TO:
INT# 3039: HUDSON ST. AT SUMMIT ST.
SEE SHEET 785

3 Cable Entries
156 Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3038
REFER TO SHEET 481 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

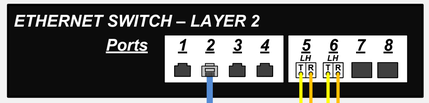
INT# 3038: HUDSON ST. AT INDIANOLA AVE.
COMMUNICATIONS DIAGRAM

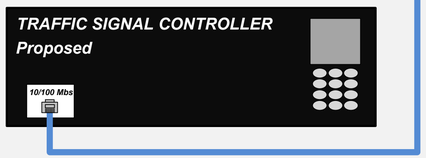
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

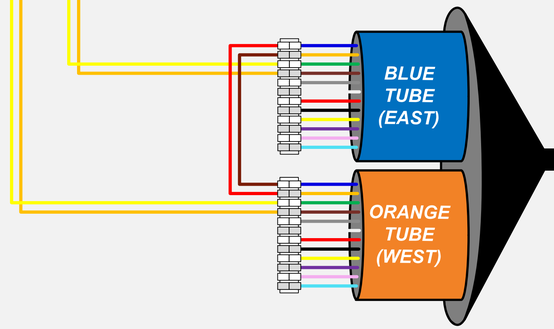




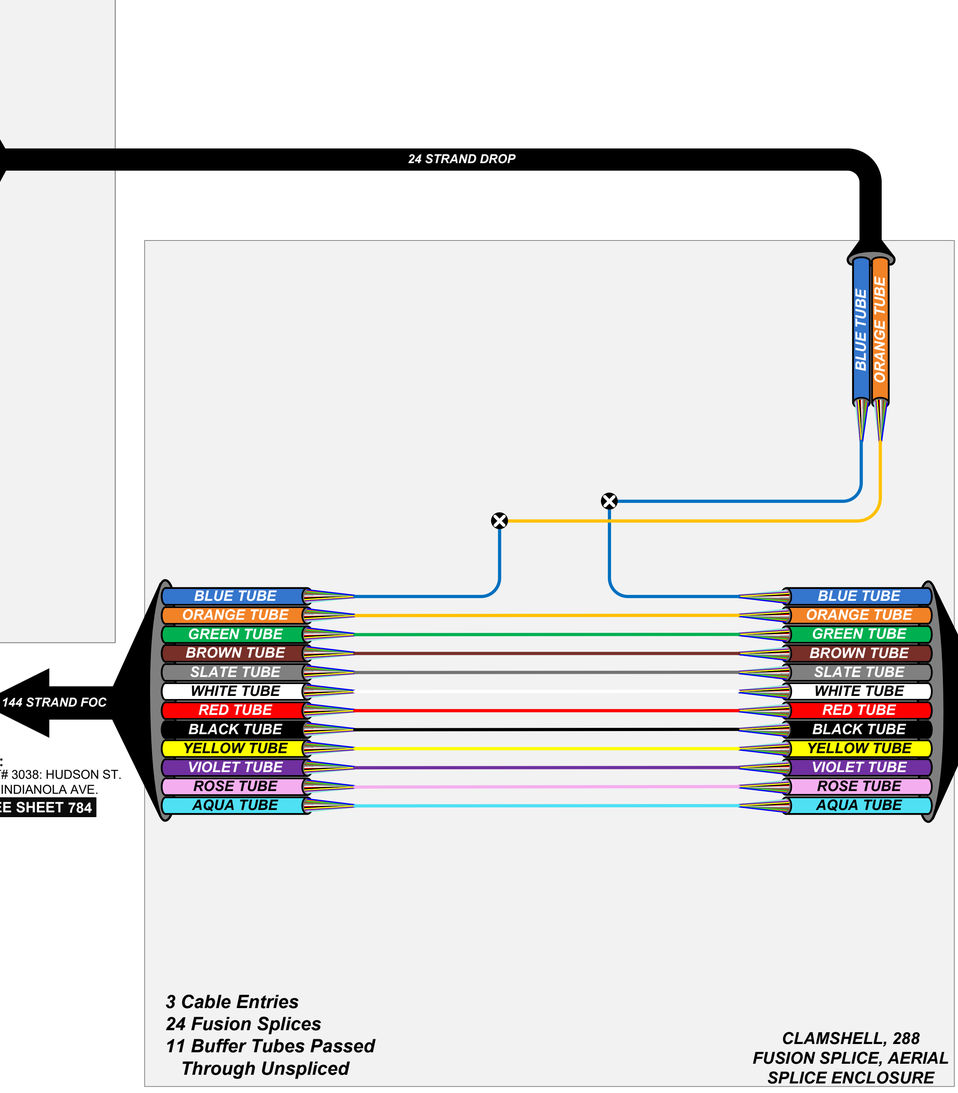
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3041: HUDSON ST. AT SILVER DR./I-71 SB OFF RAMP
SEE SHEET 787

PORT 6: INT# 3048: INDIANOLA AVE. AT WEBER RD.
SEE SHEET 791



PATCH PANEL ENCLOSURE – 24 TERMINATION



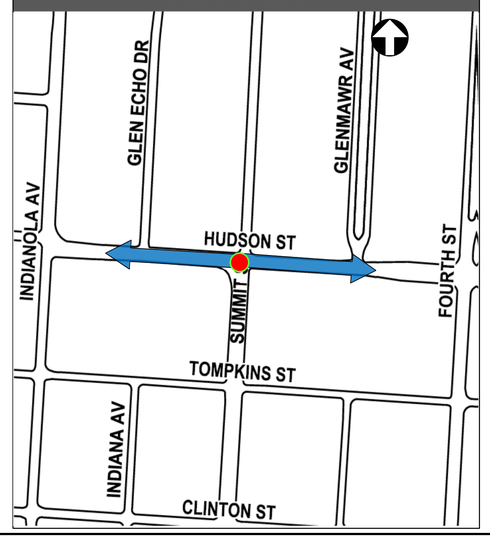
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3039

REFER TO SHEET 481 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3039: HUDSON ST. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

785
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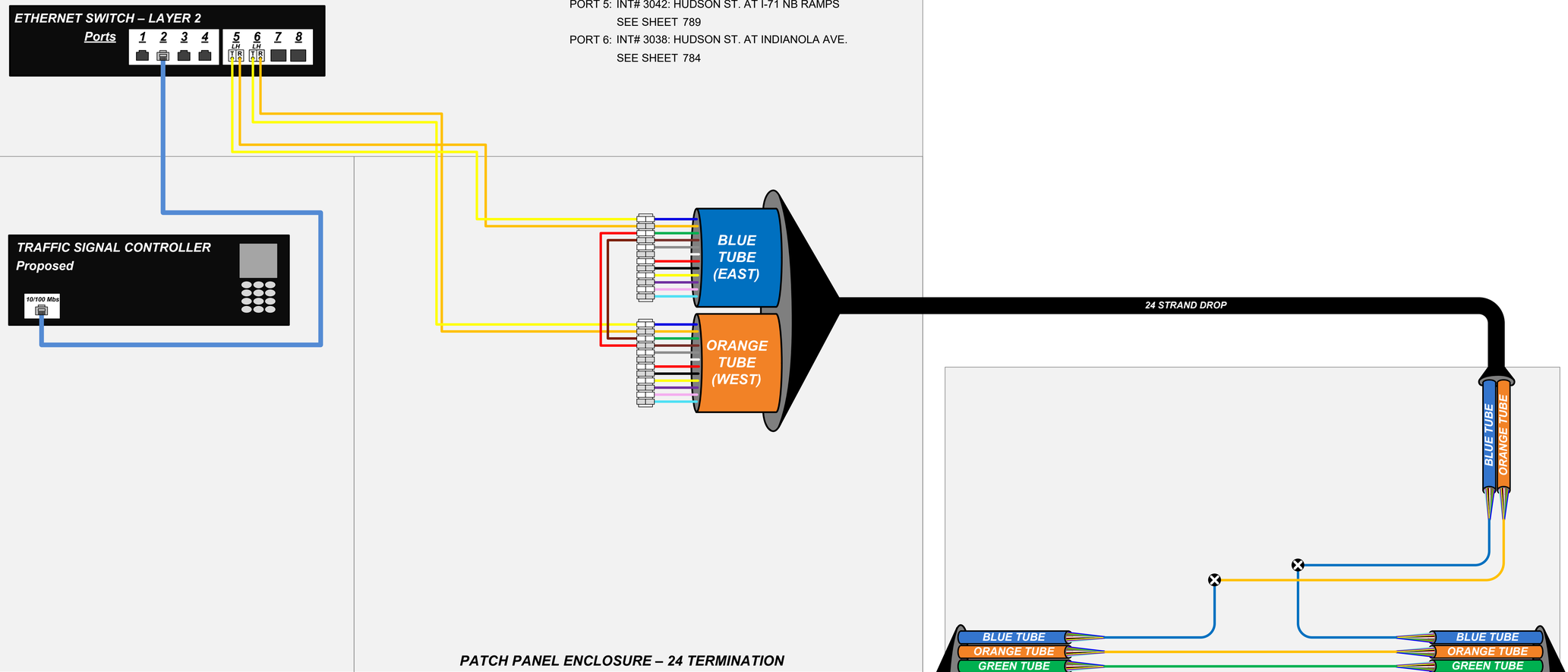
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3042: HUDSON ST. AT I-71 NB RAMPS
SEE SHEET 789

PORT 6: INT# 3038: HUDSON ST. AT INDIANOLA AVE.
SEE SHEET 784



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 3039: HUDSON ST.
AT SUMMIT ST.
SEE SHEET 785

TO:
INT# 3041: HUDSON ST.
AT SILVER DR./I-71 SB
OFF RAMP
SEE SHEET 787

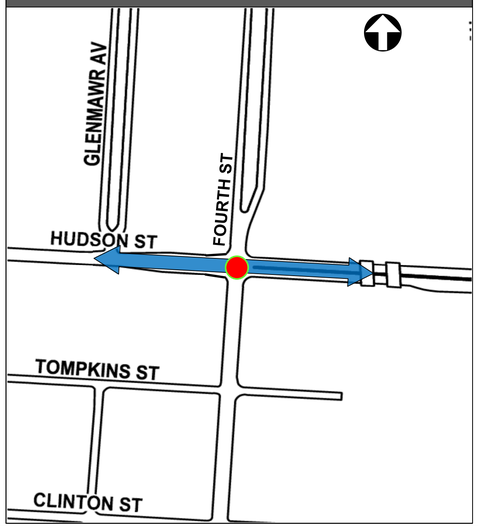
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3040

REFER TO SHEET 482 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3040: FOURTH ST. AT HUDSON ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3042: HUDSON ST. AT I-71 NB RAMPS
SEE SHEET 789

PORT 6: INT# 3039: HUDSON ST. AT SUMMIT ST.
SEE SHEET 785

PORT 7: INT# 3260: I-71 SB RAMPS AT SILVER DR.
SEE SHEET 788

ETHERNET SWITCH – LAYER 2
Ports 1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

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

PROPOSED CCTV

COMPOSITE CCTV CABLE

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (SPARE)
ORANGE TUBE (SOUTH)

24 STRAND DROP
24 STRAND DROP

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

144 STRAND FOC

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

TO:
INT# 3040: FOURTH ST. AT HUDSON ST.
SEE SHEET 786

TO:
INT# 3042: HUDSON ST. AT I-71 NB RAMPS
SEE SHEET 789

5 Cable Entries
48 Fusion Splices
2 Coiled Buffer Tubes
10 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
24 STRAND FOC

TO:
INT# 3260: I-71 SB RAMPS AT SILVER DR.
SEE SHEET 788

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3041
REFER TO SHEET 483 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3041: HUDSON ST. AT SILVER DR./I-71 SB OFF RAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

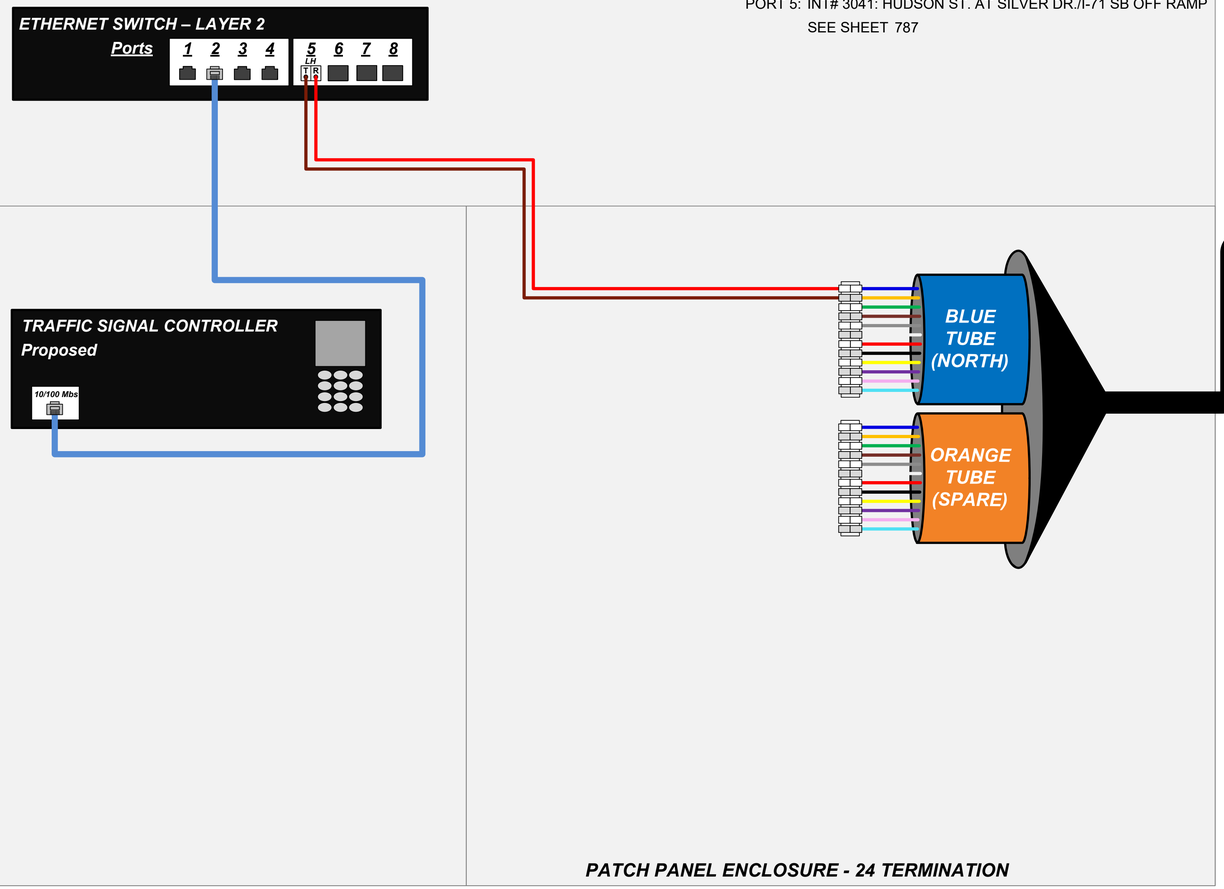
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

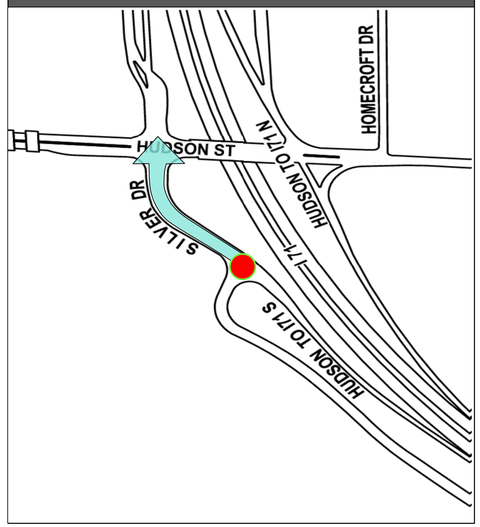
PORT 5: INT# 3041: HUDSON ST. AT SILVER DR./I-71 SB OFF RAMP
SEE SHEET 787



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3260

REFER TO SHEET 485 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3260: I-71 SB RAMPS AT SILVER DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

788
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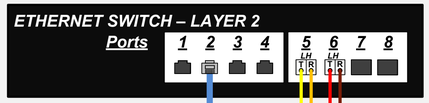
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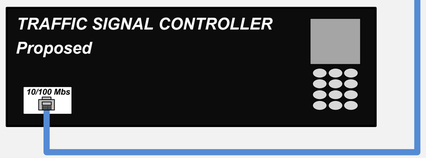
TRAFFIC SIGNAL CABINET ASSEMBLY

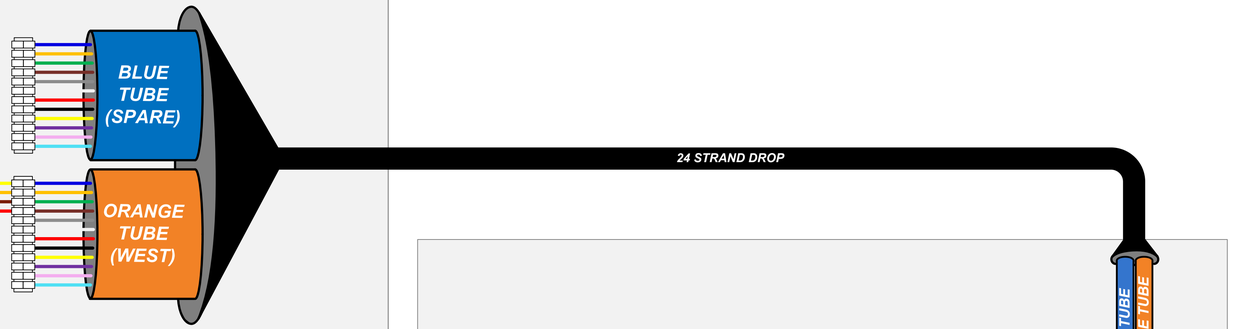
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3040: FOURTH ST. AT HUDSON ST.
SEE SHEET 786

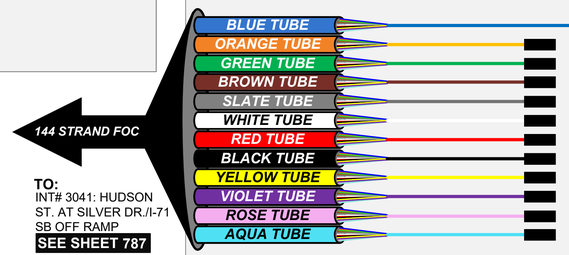
PORT 6: INT# 3041: HUDSON ST. AT SILVER DR./I-71 SB OFF RAMP
SEE SHEET 787







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3041: HUDSON ST. AT SILVER DR./I-71 SB OFF RAMP
SEE SHEET 787

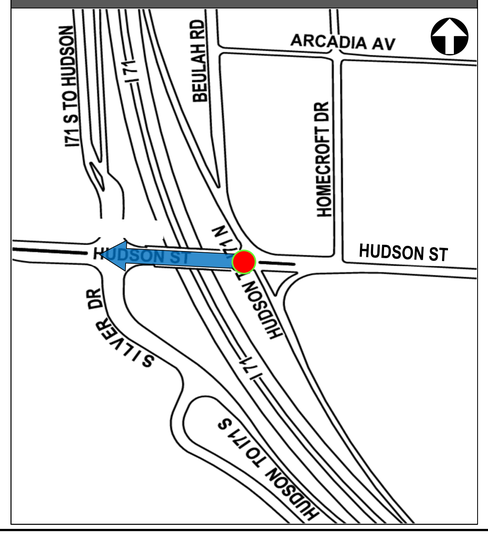
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3042

REFER TO SHEET 484 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3042: HUDSON ST. AT I-71 NB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 | 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3065: I-71 SB RAMPS AT WEBER RD.
SEE SHEET 792

PORT 6: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 972

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (SPARE)
ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP
144 STRAND FOC

TO:
INT# 3048: INDIANOLA AVE. AT WEBER RD.
SEE SHEET 791

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

TO:
INT# 4006: ARCADIA AVE. AT N HIGH ST.
SEE SHEET 719

5 Cable Entries
192 Fusion Splices
8 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

144 STRAND FOC

TO:
INT# 3038: HUDSON ST. AT INDIANOLA AVE.
SEE SHEET 784

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3025

REFER TO SHEET 529 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

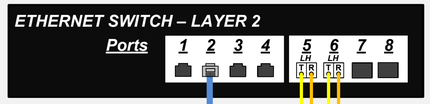
INT# 3025: ARCADIA AVE. AT INDIANOLA AVE.
COMMUNICATIONS DIAGRAM

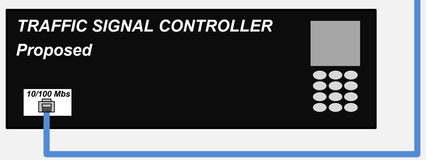
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

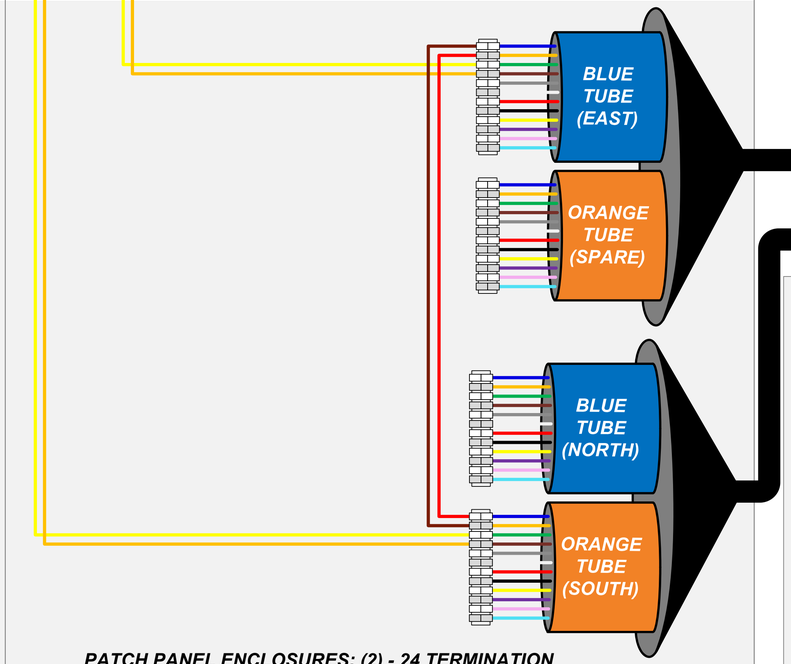




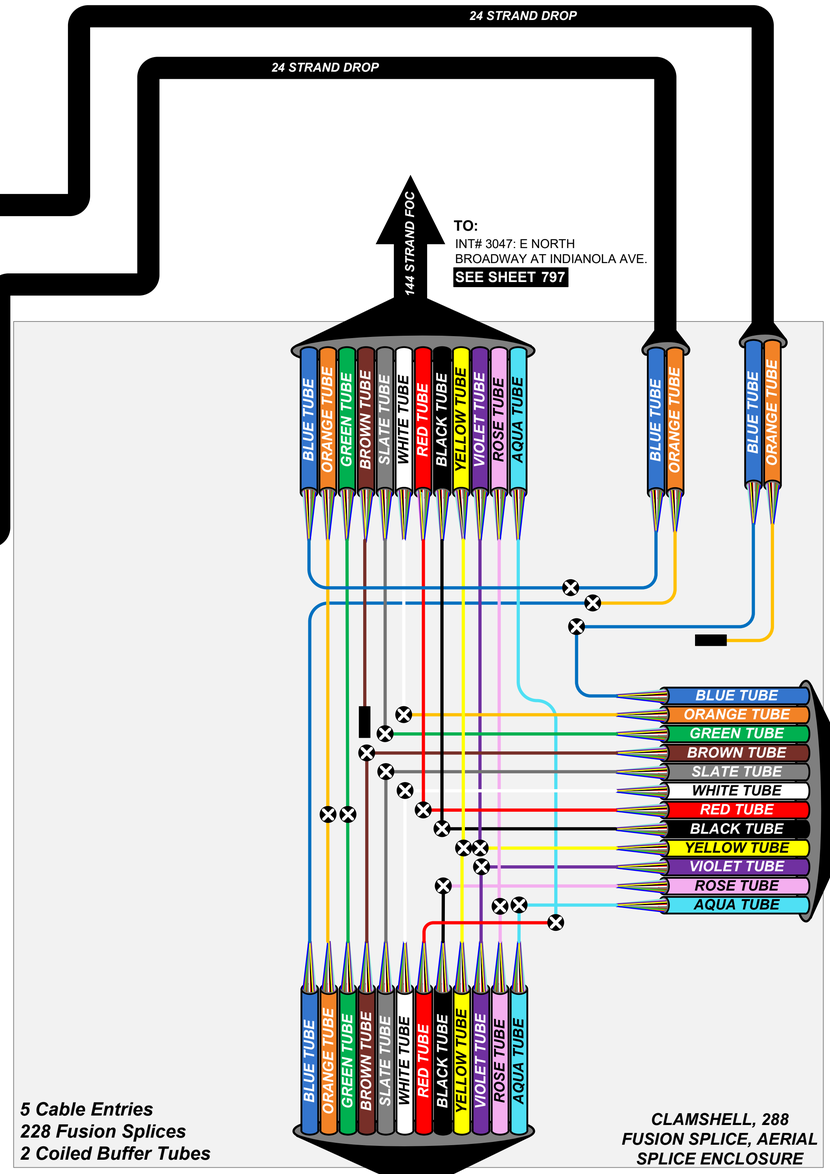
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3039: HUDSON ST. AT SUMMIT ST.
SEE SHEET 785

PORT 6: INT# 3066: I-71 NB RAMPS AT WEBER RD.
SEE SHEET 793



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3048

REFER TO SHEET 531 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3048: INDIANOLA AVE. AT WEBER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3096: REIS AVE. AT WEBER RD.
SEE SHEET 794

PORT 6: INT# 3064: E NORTH BROADWAY AT I-71 NB RAMPS
SEE SHEET 796

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (NORTH)
ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 3063: E NORTH BROADWAY AT SILVER DR.
SEE SHEET 795

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

TO:
INT# 3048: INDIANOLA AVE. AT WEBER RD.
SEE SHEET 791

144 STRAND FOC

TO:
INT# 3066: I-71 NB RAMPS AT WEBER RD.
SEE SHEET 793

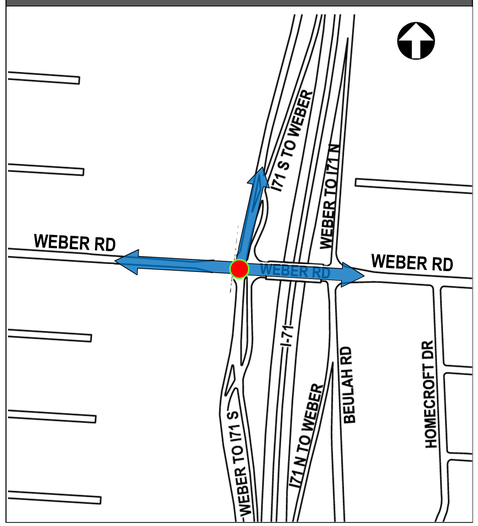
5 Cable Entries
192 Fusion Splices
8 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3065
REFER TO SHEET 547 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3065: I-71 SB RAMPS AT WEBER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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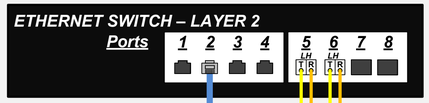
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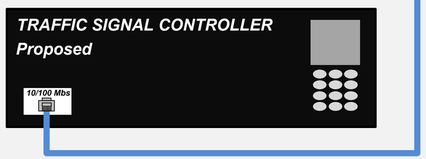
TRAFFIC SIGNAL CABINET ASSEMBLY

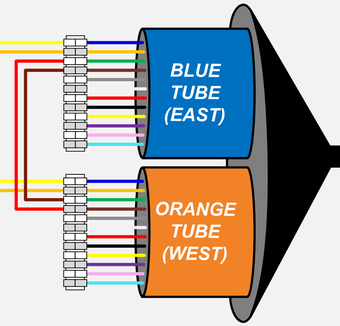
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3096: REIS AVE. AT WEBER RD.
SEE SHEET 794

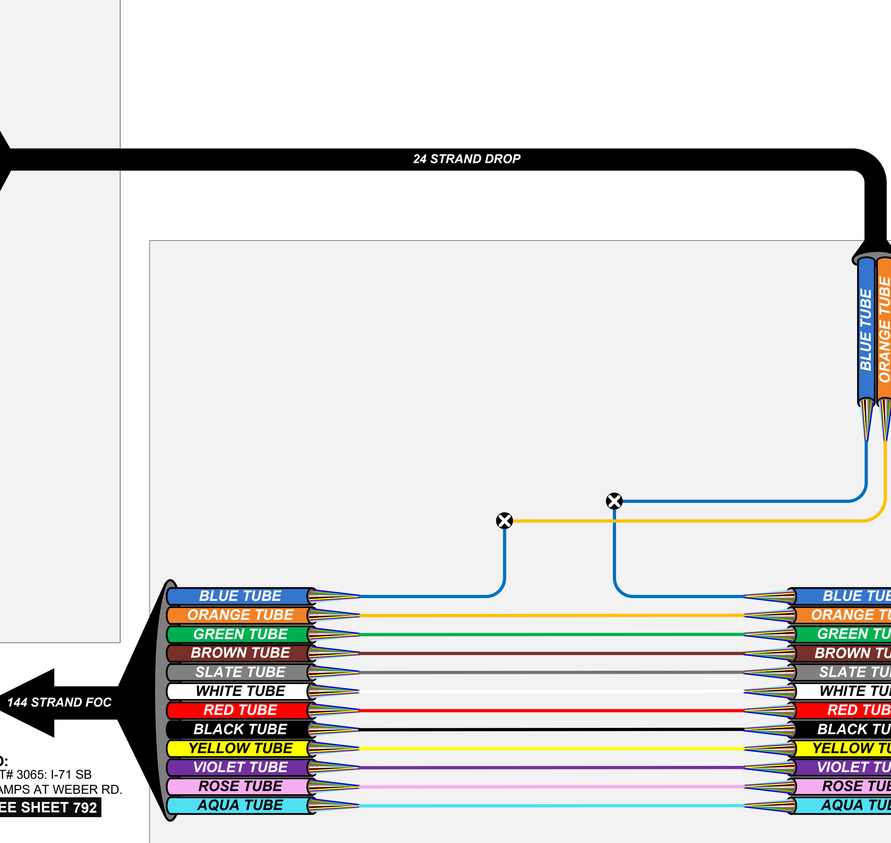
PORT 6: INT# 3063: E NORTH BROADWAY AT SILVER DR.
SEE SHEET 795







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3065: I-71 SB RAMPS AT WEBER RD.
SEE SHEET 792

TO:
INT# 3096: REIS AVE. AT WEBER RD.
SEE SHEET 794

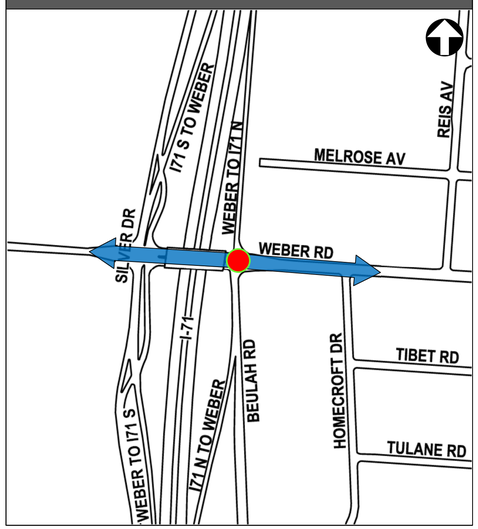
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3066

REFER TO SHEET 547 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

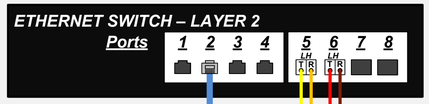
INT# 3066: I-71 NB RAMPS AT WEBER RD.
COMMUNICATIONS DIAGRAM

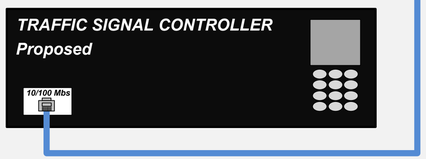
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

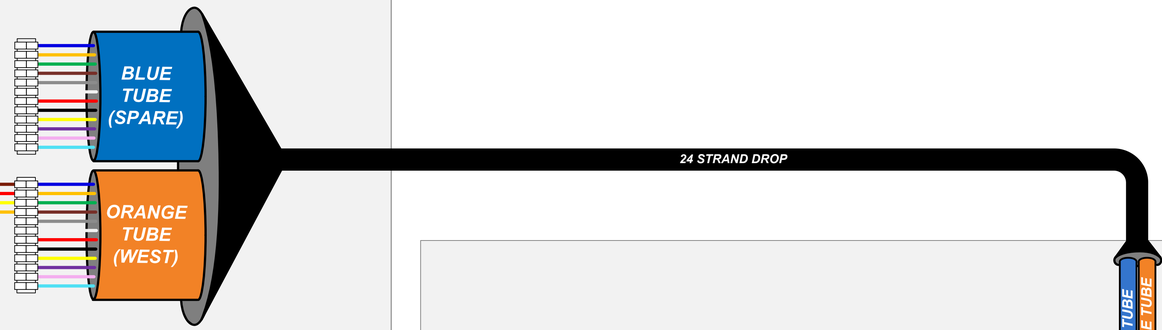




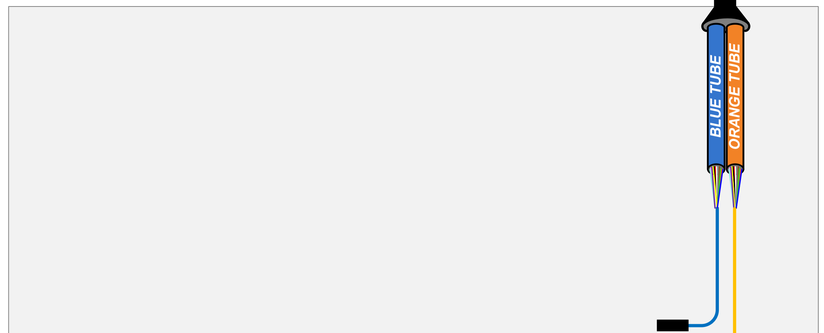
ETHERNET SWITCH PORT DESTINATION

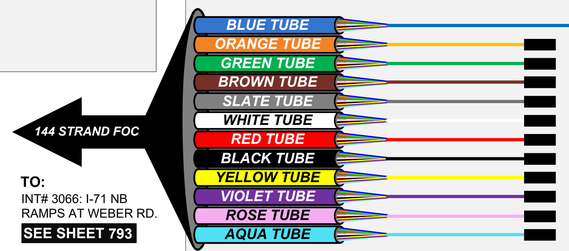
PORT 5: INT# 3065: I-71 SB RAMPS AT WEBER RD.
SEE SHEET 792

PORT 6: INT# 3066: I-71 NB RAMPS AT WEBER RD.
SEE SHEET 793



PATCH PANEL ENCLOSURE – 24 TERMINATION





TO:
INT# 3066: I-71 NB
RAMPS AT WEBER RD.
SEE SHEET 793

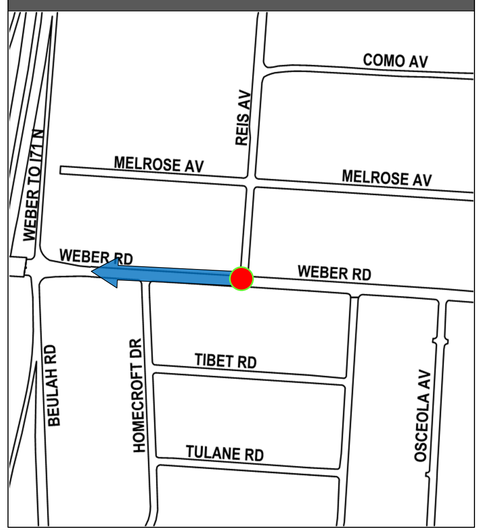
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3096

REFER TO SHEET 548 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 669 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

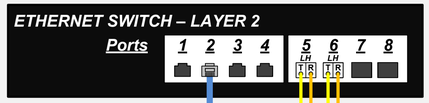
INT# 3096: REIS AVE. AT WEBER RD.
COMMUNICATIONS DIAGRAM

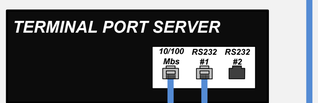
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

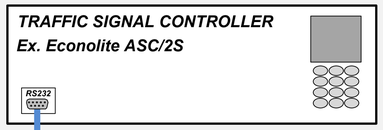
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TRAFFIC SIGNAL CABINET ASSEMBLY



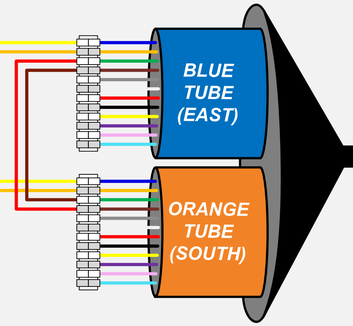


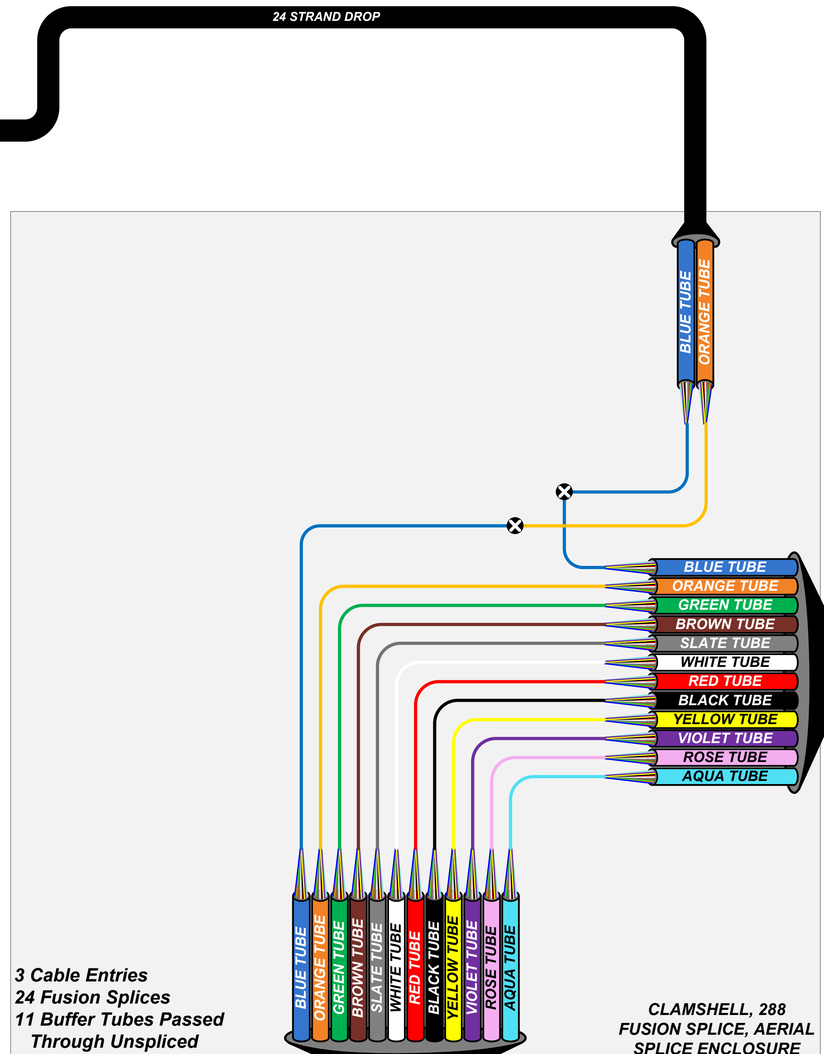


ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
SEE SHEET 996

PORT 6: INT# 3066: I-71 NB RAMPS AT WEBER RD.
SEE SHEET 793



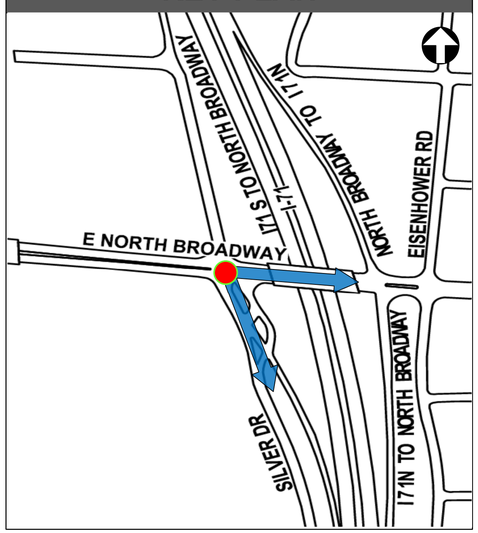


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3063

REFER TO SHEET 553 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3063: E NORTH BROADWAY AT SILVER DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3148: MAIZE RD. AT OAKLAND PARK AVE.
SEE SHEET 828

PORT 6: INT# 3065: I-71 SB RAMPS AT WEBER RD.
SEE SHEET 792

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 | 5 LH T R | 6 LH T R | 7 | 8

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S

RS232

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

BLUE TUBE (EAST)
ORANGE TUBE (SOUTH)
BLUE TUBE (SOUTH)
ORANGE TUBE (WEST)

24 STRAND DROP

24 STRAND DROP

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

TO:
INT# 3063: E NORTH BROADWAY AT SILVER DR.
SEE SHEET 795

144 STRAND FOC

TO:
INT# 3146: E NORTH BROADWAY AT REIS AVE.
SEE SHEET 827

6 Cable Entries
312 Fusion Splices

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144 STRAND FOC

TO:
EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
SEE SHEET 996

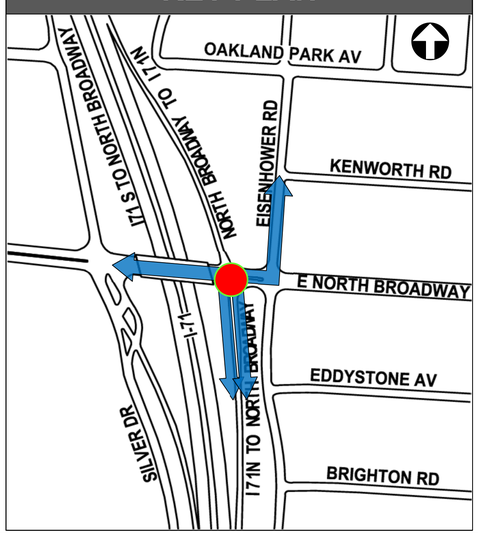
144 STRAND FOC

TO:
EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
SEE SHEET 996

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3064

REFER TO SHEET 553 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

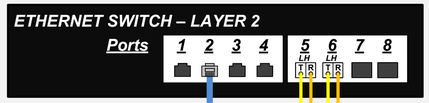
INT# 3064: E NORTH BROADWAY AT I-71 NB RAMPS
COMMUNICATIONS DIAGRAM

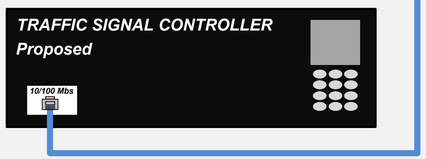
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

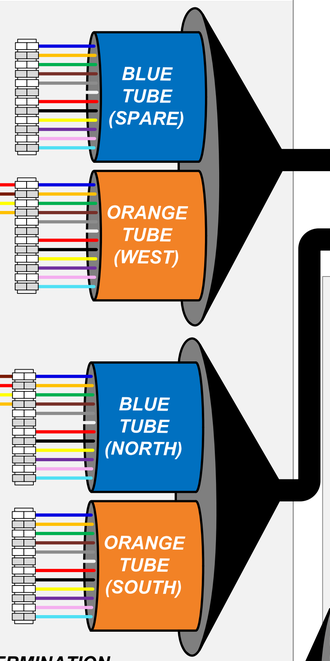




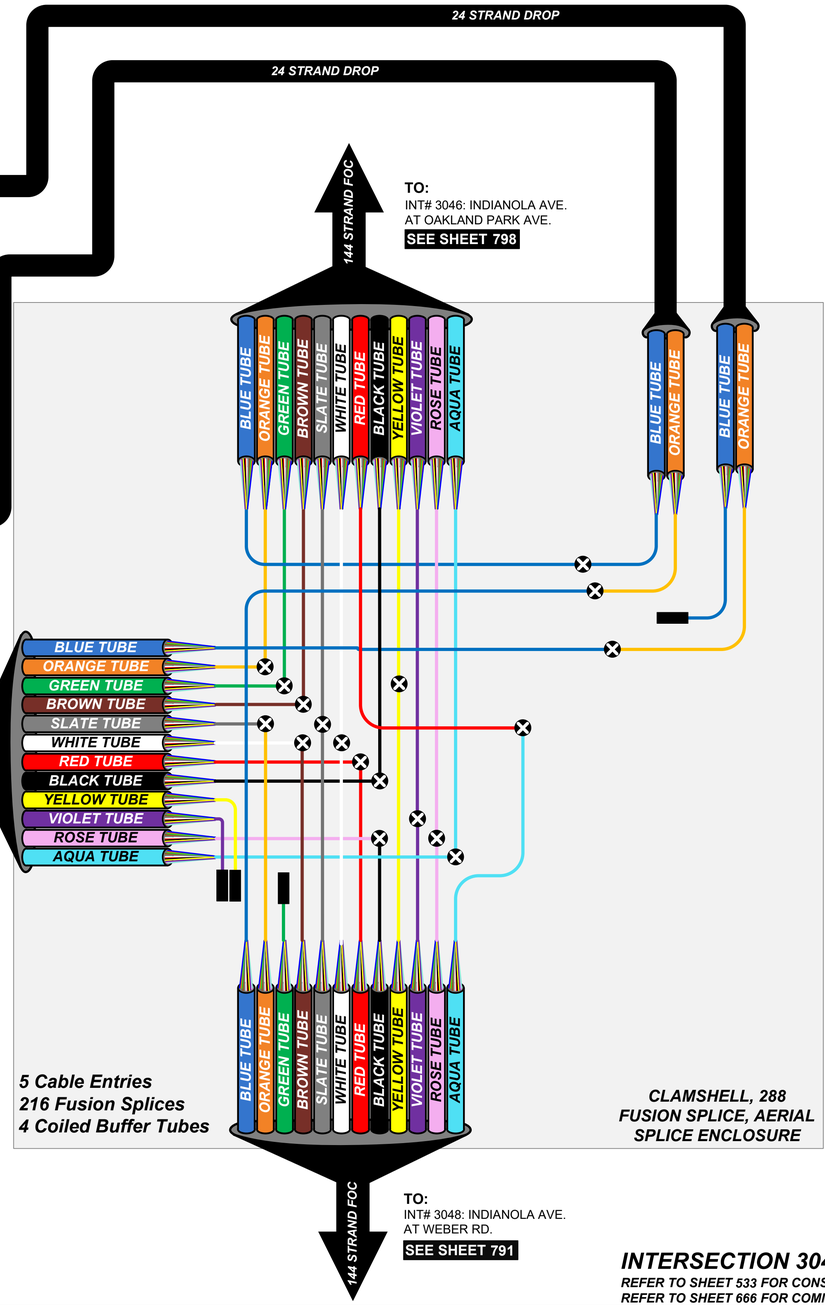
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4036: N HIGH ST. AT NORTH BROADWAY
SEE SHEET 725

PORT 6: INT# 3051: ARDEN RD. AT INDIANOLA AVE.
SEE SHEET 799



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3047

REFER TO SHEET 533 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 666 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3047: E NORTH BROADWAY AT INDIANOLA AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

797
1000

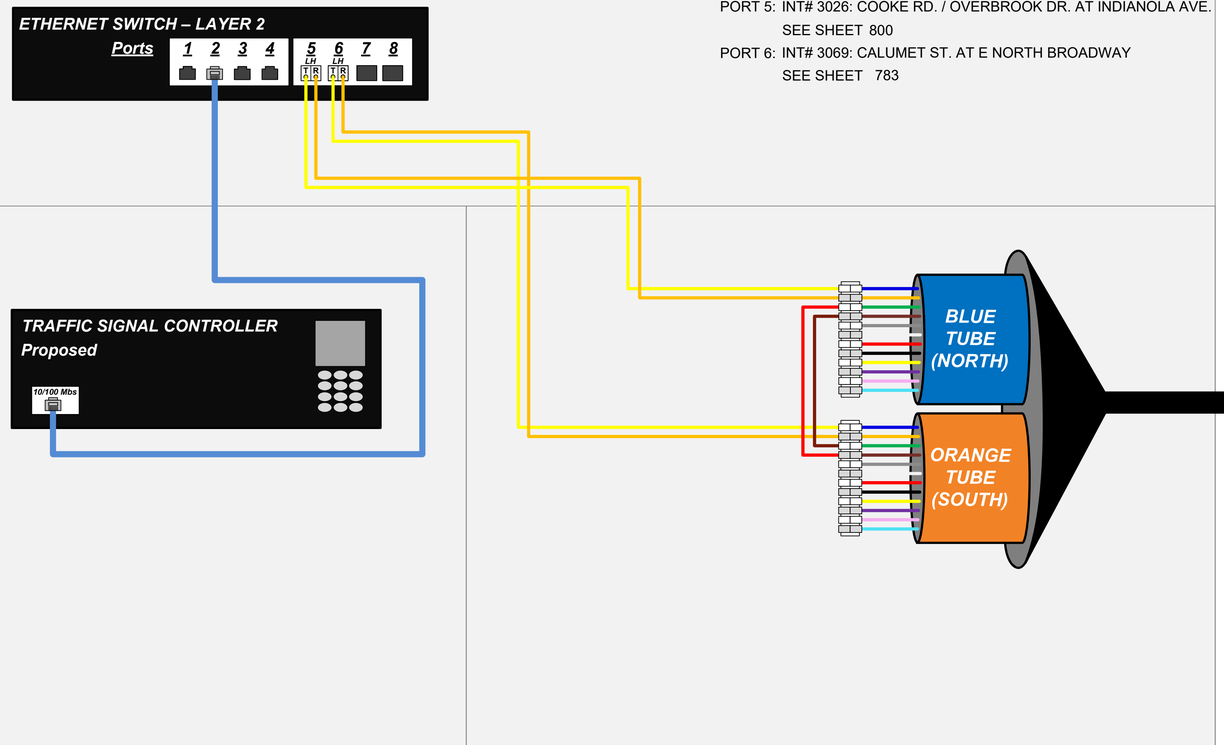
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3026: COOKE RD. / OVERBROOK DR. AT INDIANOLA AVE.
SEE SHEET 800

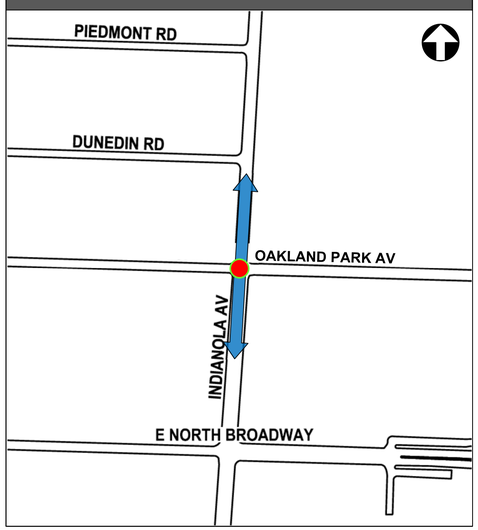
PORT 6: INT# 3069: CALUMET ST. AT E NORTH BROADWAY
SEE SHEET 783



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3046

REFER TO SHEET 534 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 666 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

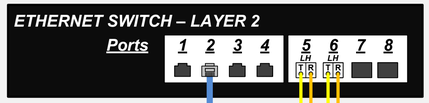
INT# 3046: INDIANOLA AVE. AT OAKLAND PARK AVE.
COMMUNICATIONS DIAGRAM

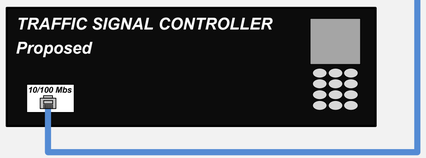
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

798
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

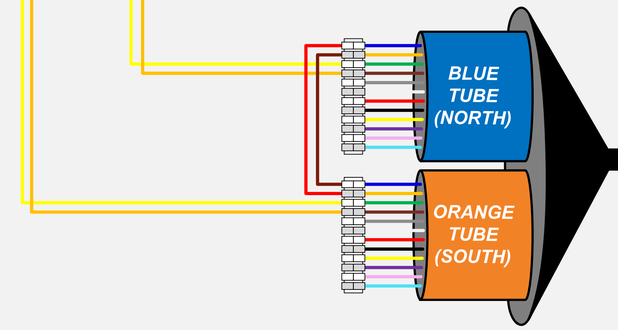




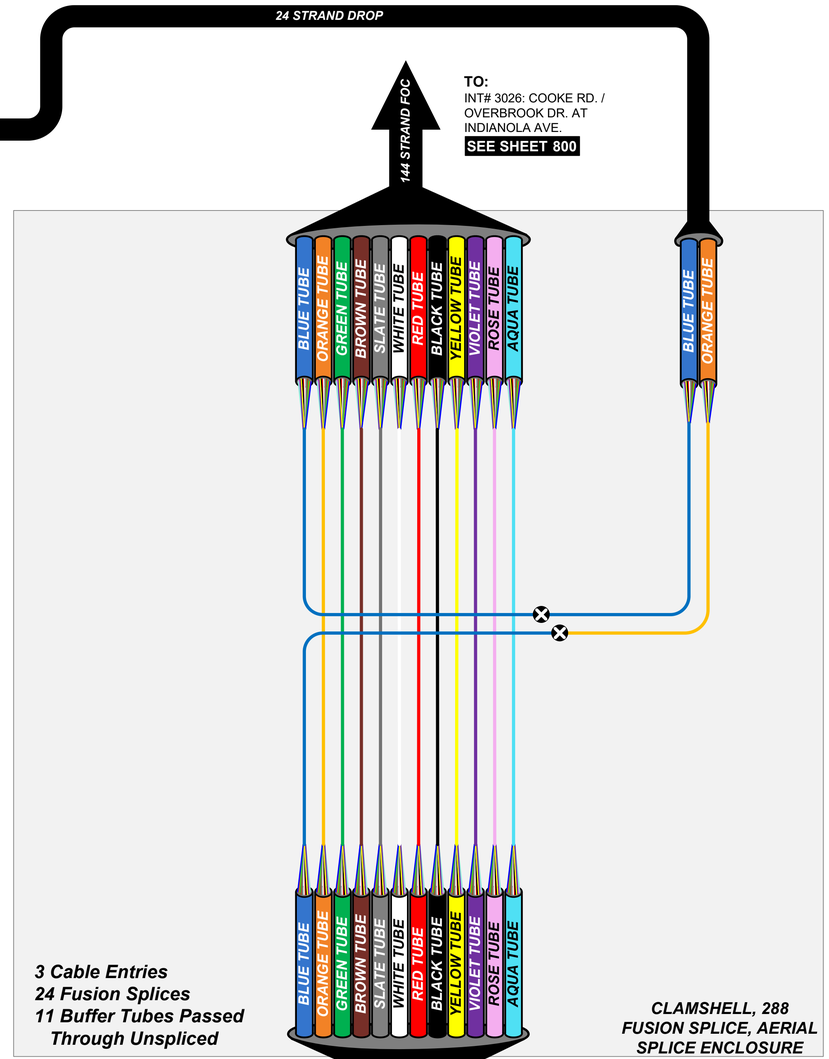
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3027: COOKE RD. AT I-71 SB RAMPS
SEE SHEET 802

PORT 6: INT# 3047: E NORTH BROADWAY AT INDIANOLA AVE.
SEE SHEET 797



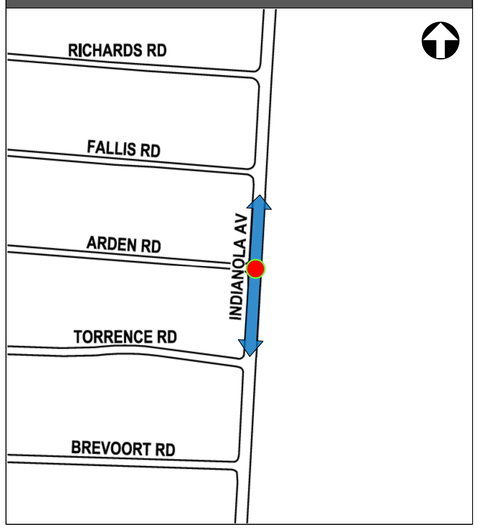
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3051

REFER TO SHEET 536 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 666 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3051: ARDEN RD. AT INDIANOLA AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

799
1000

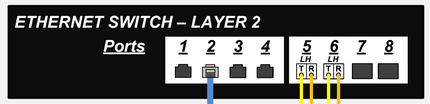
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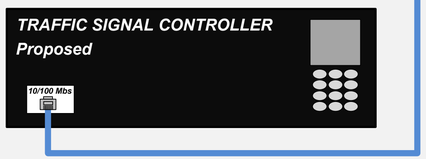
TRAFFIC SIGNAL CABINET ASSEMBLY

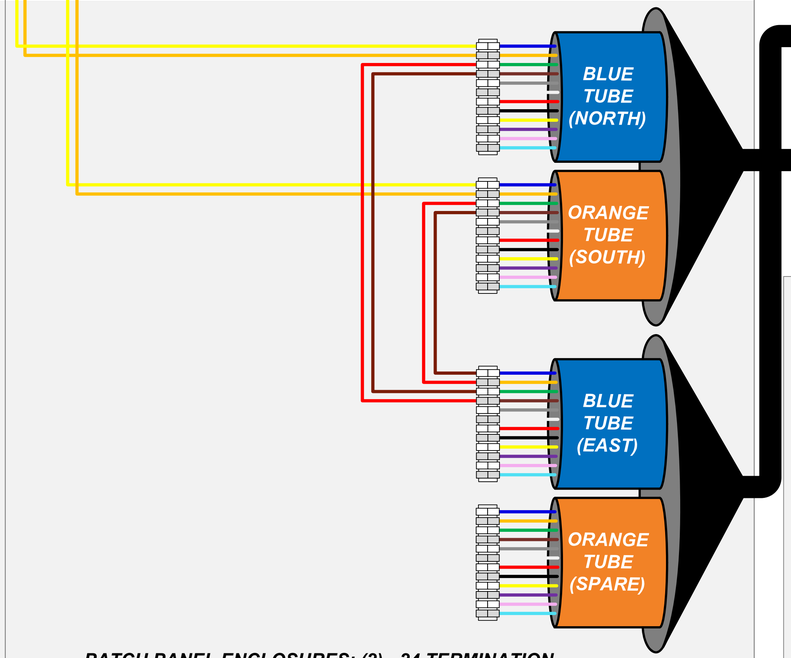
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3043: E COOKE RD. AT INDIANOLA AVE.
SEE SHEET 801

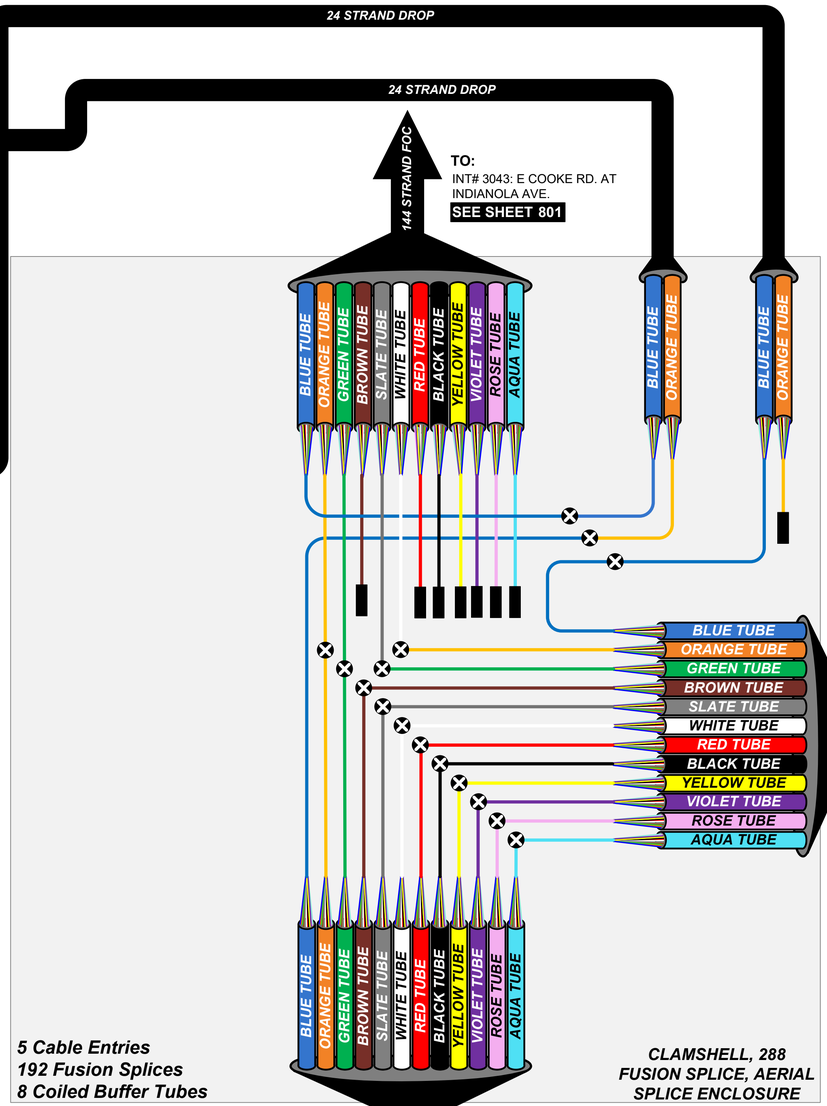
PORT 6: INT# 3046: INDIANOLA AVE. AT OAKLAND PARK AVE.
SEE SHEET 798







PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



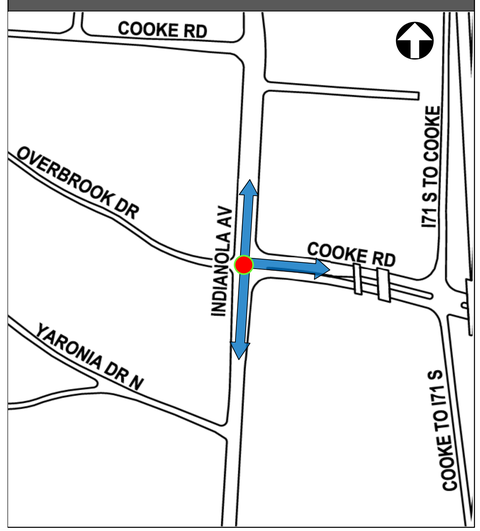
5 Cable Entries
192 Fusion Splices
8 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3026

REFER TO SHEET 539 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 666 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

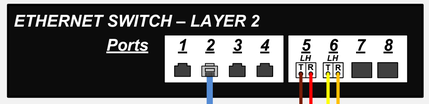
INT# 3026: COOKE RD. / OVERBROOK DR. AT INDIANOLA AVE.
COMMUNICATIONS DIAGRAM

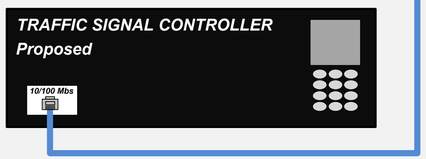
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

800
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

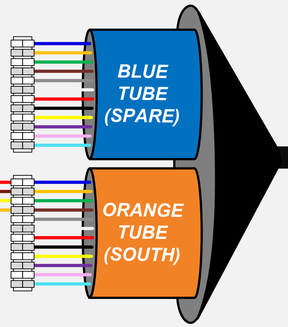


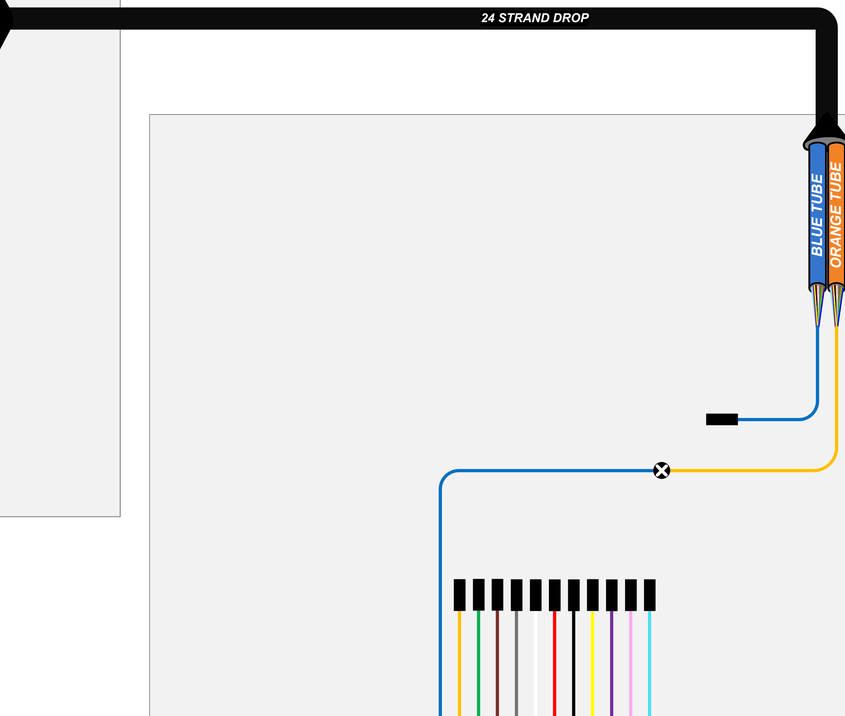


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3026: COOKE RD. / OVERBROOK DR. AT INDIANOLA AVE.
SEE SHEET 800

PORT 6: INT# 3027: COOKE RD. AT I-71 SB RAMPS
SEE SHEET 802





PATCH PANEL ENCLOSURE – 24 TERMINATION

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 3026: COOKE RD. / OVERBROOK DR. AT INDIANOLA AVE.
SEE SHEET 800

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3043

REFER TO SHEET 540 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 666 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3043: E COOKE RD. AT INDIANOLA AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 | 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3051: ARDEN RD. AT INDIANOLA AVE.
SEE SHEET 799

PORT 6: INT# 3043: E COOKE RD. AT INDIANOLA AVE.
SEE SHEET 801

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

EXISTING CCTV CABINET I-71 AT COOKE RD

EXISTING ODOT ETHERNET SWITCH – LAYER 3
Ports: 1 2 3 4 | 5 6 7 8
10/100 Mbs

EXISTING CCTV FIELD BOX
VIDEO/PTZ IP DATA
CCTV/HEATER POWER
ANALOG VIDEO
COMPOSITE CCTV CABLE
EXISTING CCTV

CAP AND COIL 75' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

BLUE TUBE
ORANGE TUBE

1-6
7-12
1-6
7-12

144 STRAND FOC	144 STRAND FOC
BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE 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

TO:
INT# 3026: COOKE RD. / OVERBROOK DR. AT INDIANOLA AVE.
SEE SHEET 800

TO:
INT# 3029: COOKE RD. AT MAIZE RD.
SEE SHEET 803

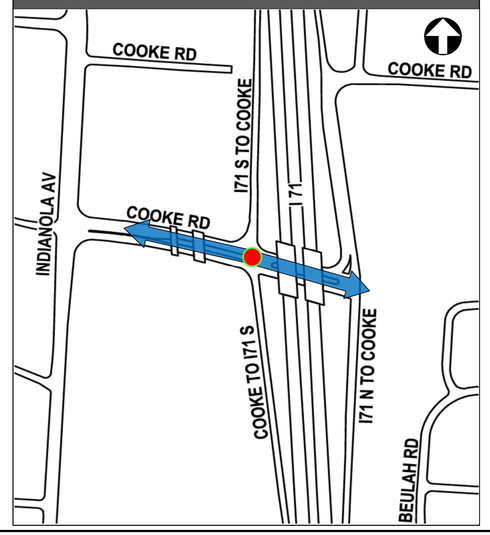
4 Cable Entries
42 Fusion Splices
1 Coiled Buffer Tube
10 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3027
REFER TO SHEET 542 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 666 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3027: COOKE RD. AT I-71 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

802
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3165: MAIZE RD. AT GARDEN RD.

PORT 6: EXISTING CONNECTION TO INT# N010: MAIZE RD. AT MORSE RD.

BLUE TUBE (NORTH)

ORANGE TUBE (WEST)

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 3165: MAIZE RD. AT GARDEN 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

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

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:
INT# 3027: COOKE RD. AT I-71 SB RAMPS
SEE SHEET 802

PATCH PANEL ENCLOSURE – 24 TERMINATION

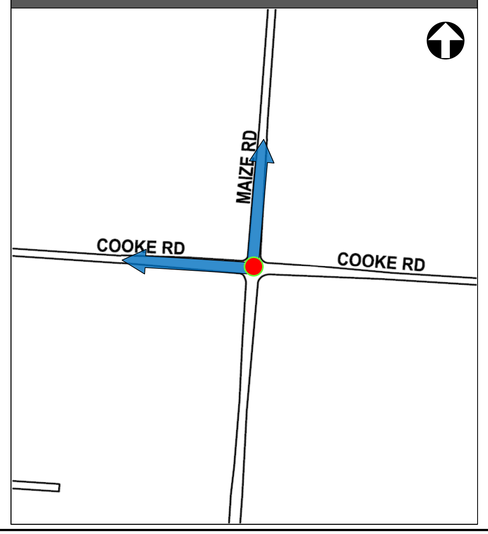
3 Cable Entries
144 Proposed Fusion Splices
156 Total Fusion Splices

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

FOR EXISTING WORK SHOWN ON THIS SHEET REFER TO CTSS PHASE B PROJECT 2762-E

INTERSECTION 3029
REFER TO SHEET 544 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 666 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3029: COOKE RD. AT MAIZE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

803
1000

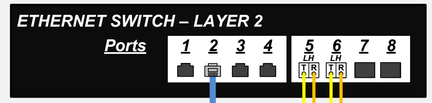
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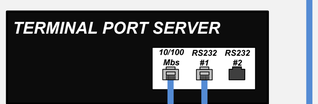
TRAFFIC SIGNAL CABINET ASSEMBLY

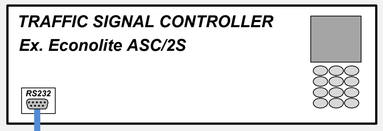
ETHERNET SWITCH PORT DESTINATION

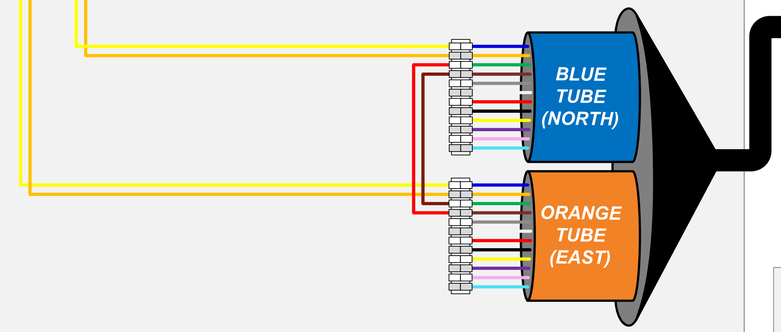
PORT 5: INT# 4098: KING AVE. AT NORTHWEST BLVD.
SEE SHEET 825

PORT 6: INT# 4090: FIFTH AVE. AT GRANDVIEW AVE.
SEE SHEET 806

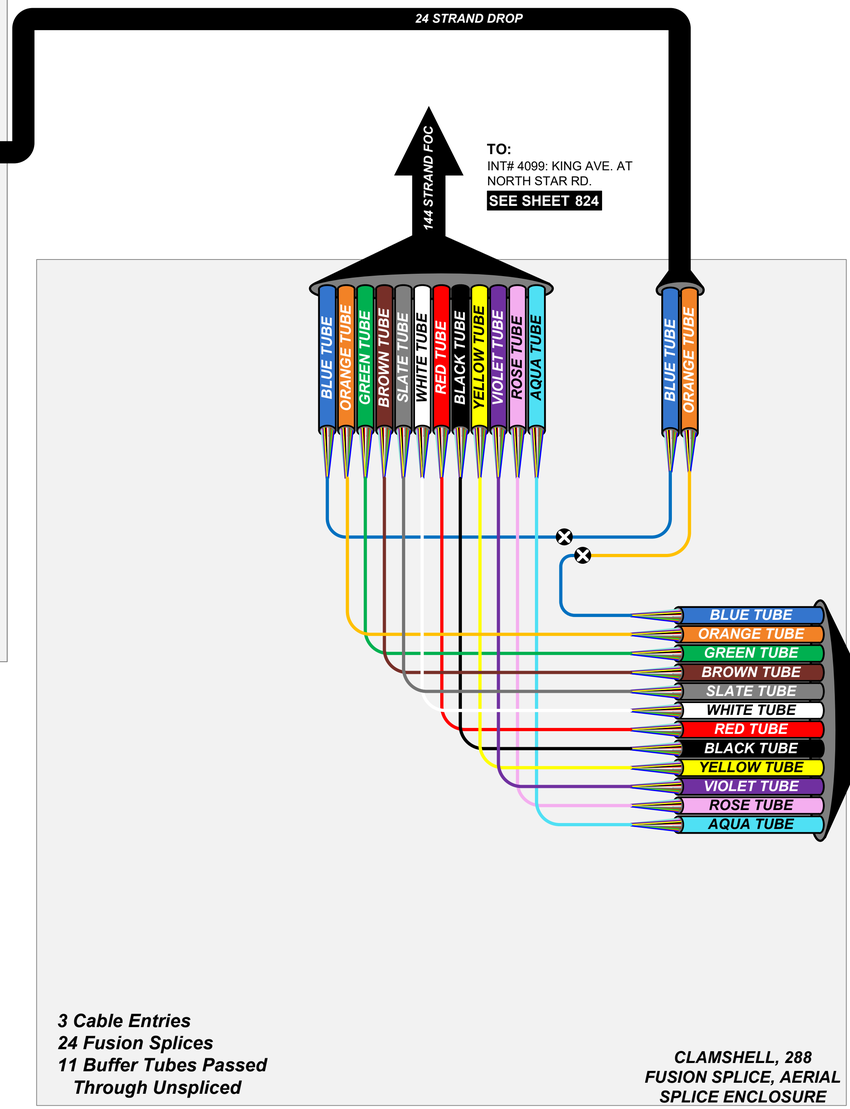








PATCH PANEL ENCLOSURE - 24 TERMINATION



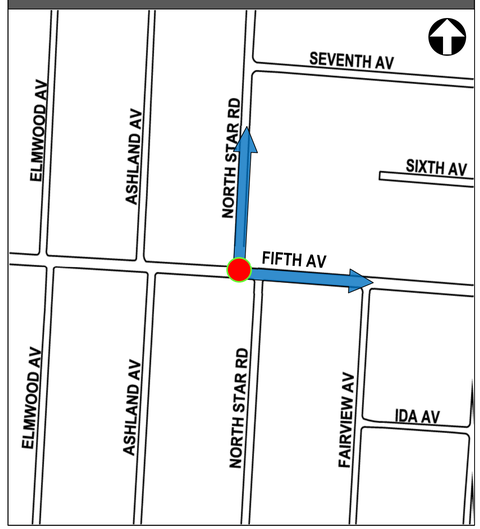
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4156

REFER TO SHEET 279 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4156: FIFTH AVE. AT NORTH STAR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

804
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 | 5 (LH T R) 6 (LH T R) 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4081: GRANDVIEW AVE. AT THIRD AVE.
SEE SHEET 807

PORT 6: INT# 4099: KING AVE. AT NORTH STAR RD.
SEE SHEET 824

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S

RS232

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

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

TO:
INT# 4156: FIFTH AVE.
AT NORTH STAR RD.
SEE SHEET 804

144 STRAND FOC

TO:
INT# 4090: FIFTH AVE.
AT GRANDVIEW AVE.
SEE SHEET 806

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4091

REFER TO SHEET 279 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4091: BROADVIEW AVE. AT FIFTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

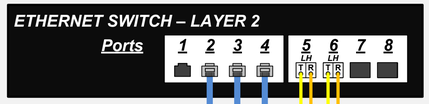
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J:\Jobs\601351\TECH\PROD\Communications\Intersection Sheets\Splicing Details\804-814.vsd - 4091 layout ~ last saved by: skoganti 3/31/2020 4:49:37 PM ~ printed: 3/31/2020 5:08:03 PM

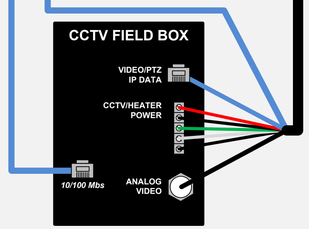
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

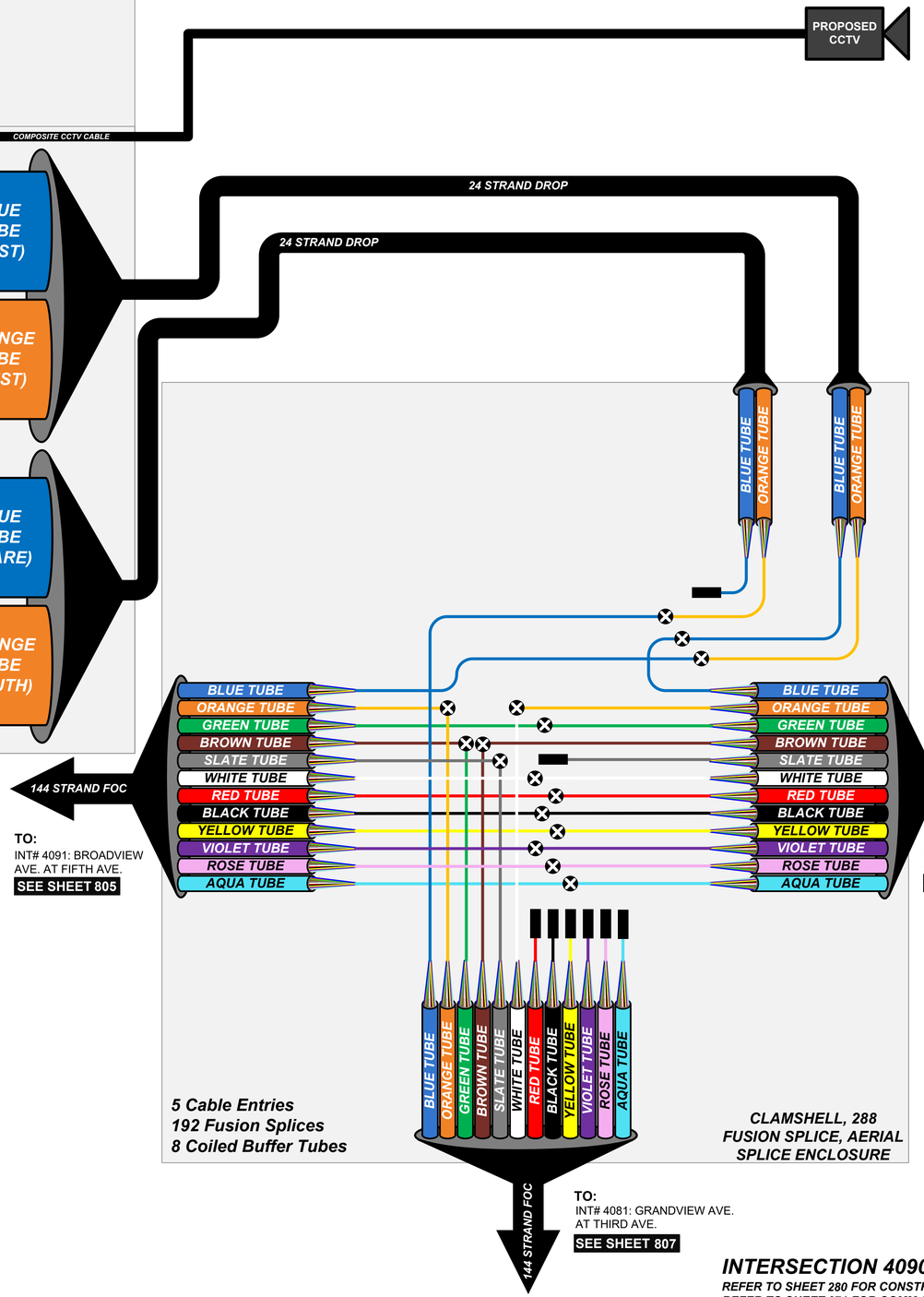
PORT 5: INT# 4088: FIFTH AVE. AT KENNY RD.
SEE SHEET 748
PORT 6: INT# 4156: FIFTH AVE. AT NORTH STAR RD.
SEE SHEET 804







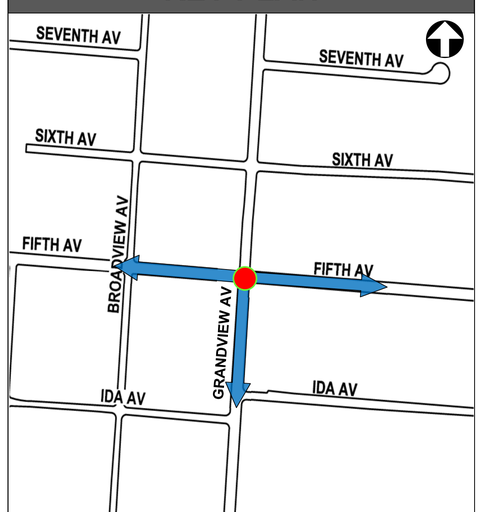
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4090

REFER TO SHEET 280 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

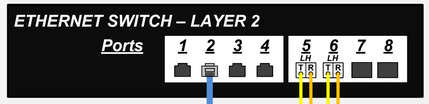
INT# 4090: FIFTH AVE. AT GRANDVIEW AVE.
COMMUNICATIONS DIAGRAM

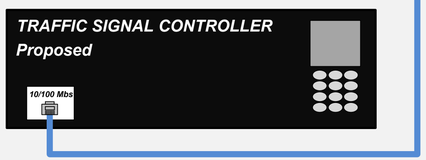
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\804-814.vsd - 4090 layout ~ last saved by: skoganti 3/31/2020 4:49:37 PM ~ printed: 3/31/2020 5:08:03 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

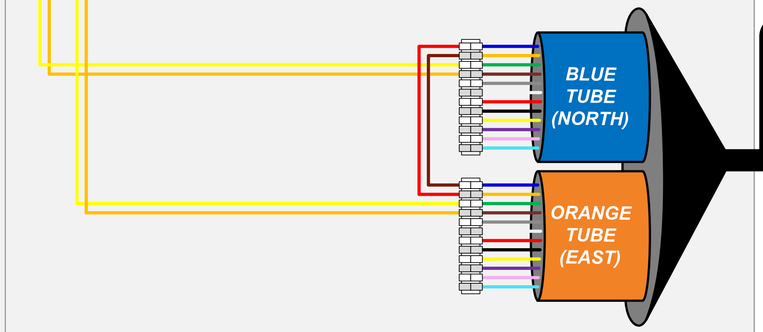




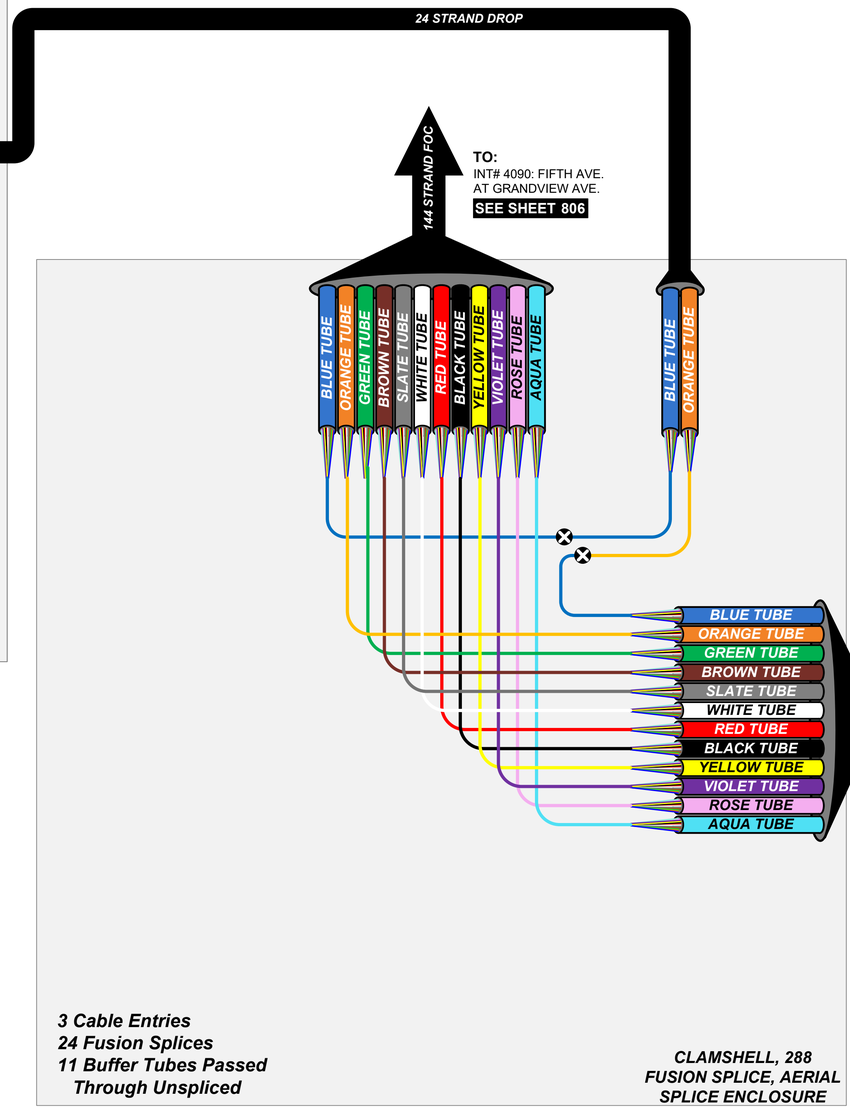
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4091: BROADVIEW AVE. AT FIFTH AVE.
SEE SHEET 805

PORT 6: INT# 4080: NORTHWEST BLVD. AT THIRD AVE.
SEE SHEET 808



PATCH PANEL ENCLOSURE - 24 TERMINATION



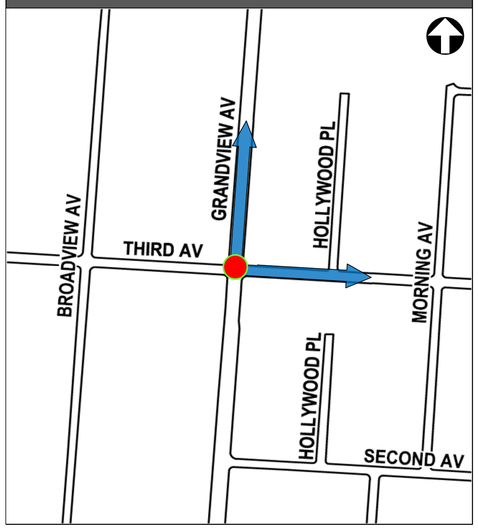
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4081

REFER TO SHEET 275 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4081: GRANDVIEW AVE. AT THIRD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

807
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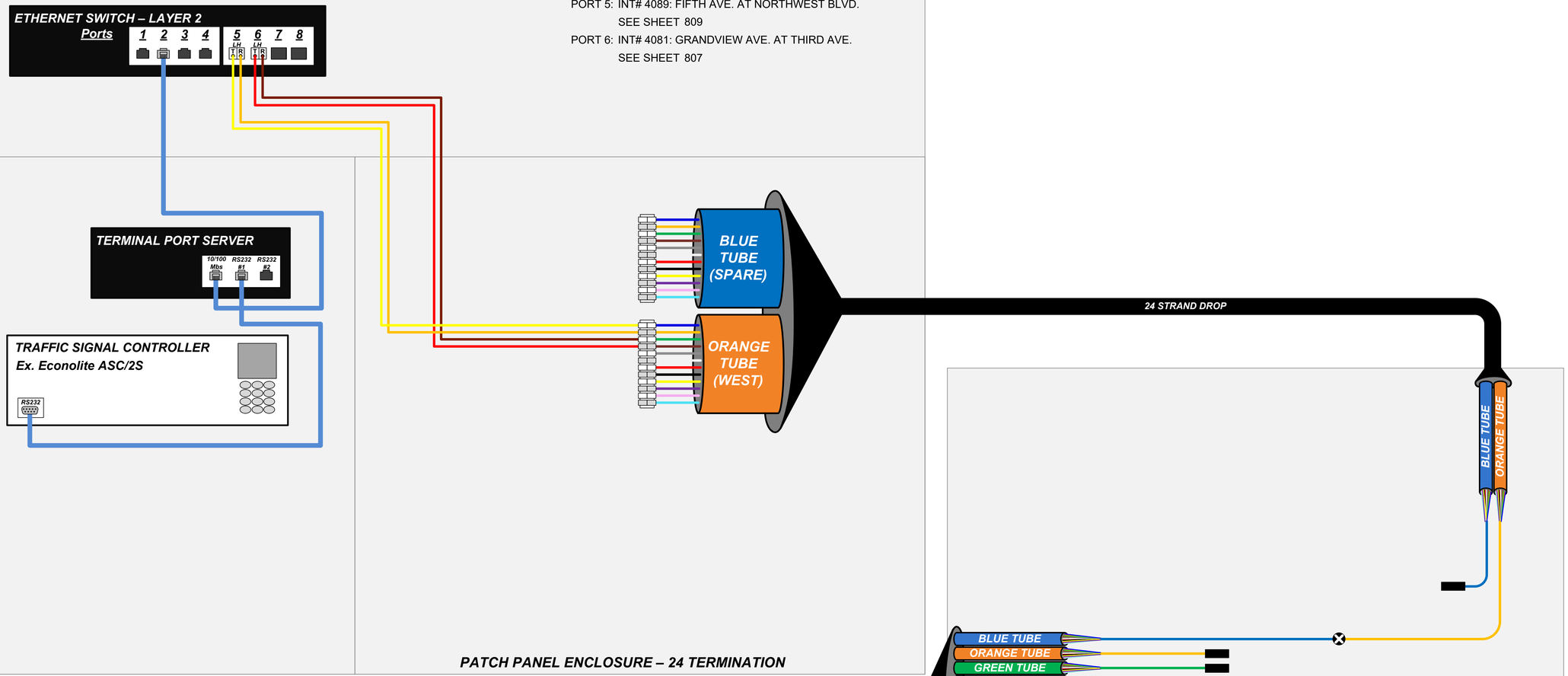
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4089: FIFTH AVE. AT NORTHWEST BLVD.
SEE SHEET 809

PORT 6: INT# 4081: GRANDVIEW AVE. AT THIRD AVE.
SEE SHEET 807



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 4081: GRANDVIEW AVE. AT THIRD AVE.
SEE SHEET 807

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4080

REFER TO SHEET 276 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4080: NORTHWEST BLVD. AT THIRD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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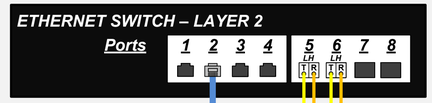
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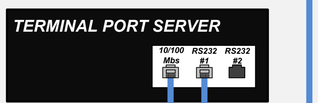
TRAFFIC SIGNAL CABINET ASSEMBLY

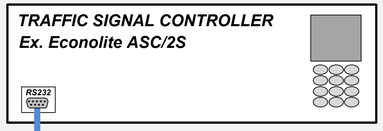
ETHERNET SWITCH PORT DESTINATION

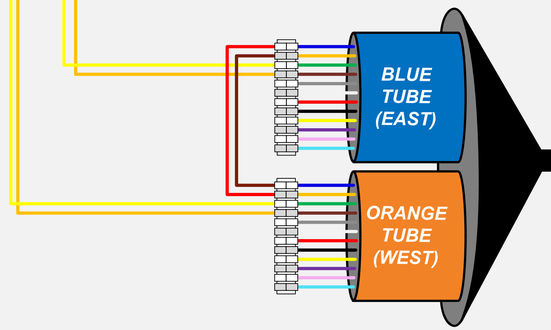
PORT 5: INT# 4097: KENNY RD. AT KING AVE.
SEE SHEET 749

PORT 6: INT# 4080: NORTHWEST BLVD. AT THIRD AVE.
SEE SHEET 808

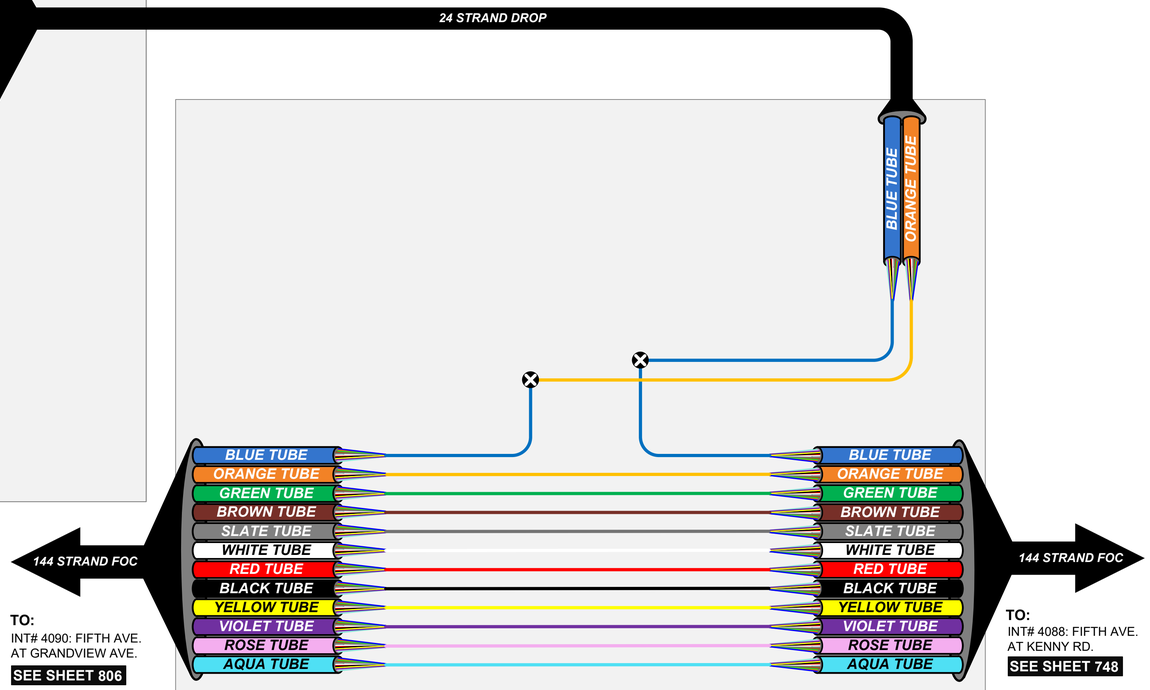








PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4090: FIFTH AVE.
AT GRANDVIEW AVE.
SEE SHEET 806

TO:
INT# 4088: FIFTH AVE.
AT KENNY RD.
SEE SHEET 748

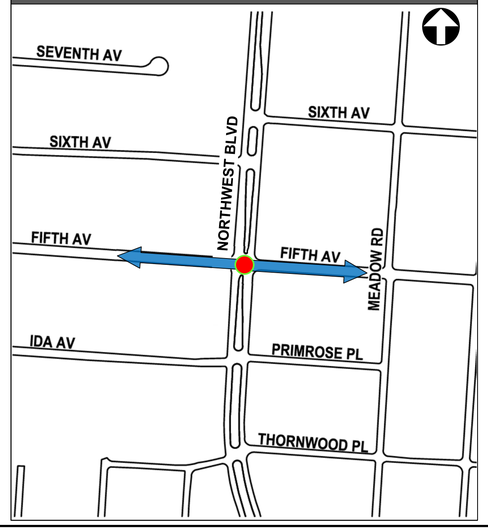
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4089

REFER TO SHEET 281 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

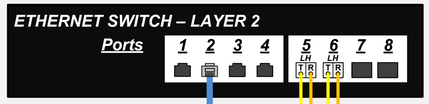
INT# 4089: FIFTH AVE. AT NORTHWEST BLVD.
COMMUNICATIONS DIAGRAM

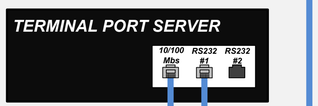
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

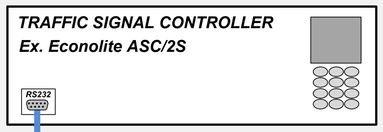
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TRAFFIC SIGNAL CABINET ASSEMBLY



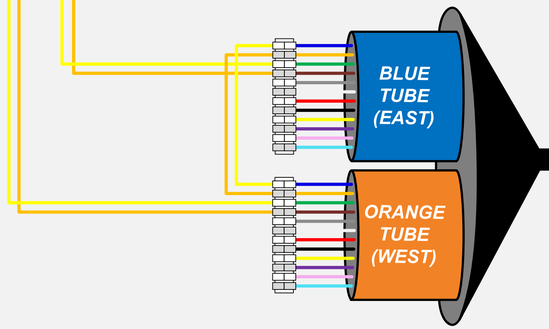


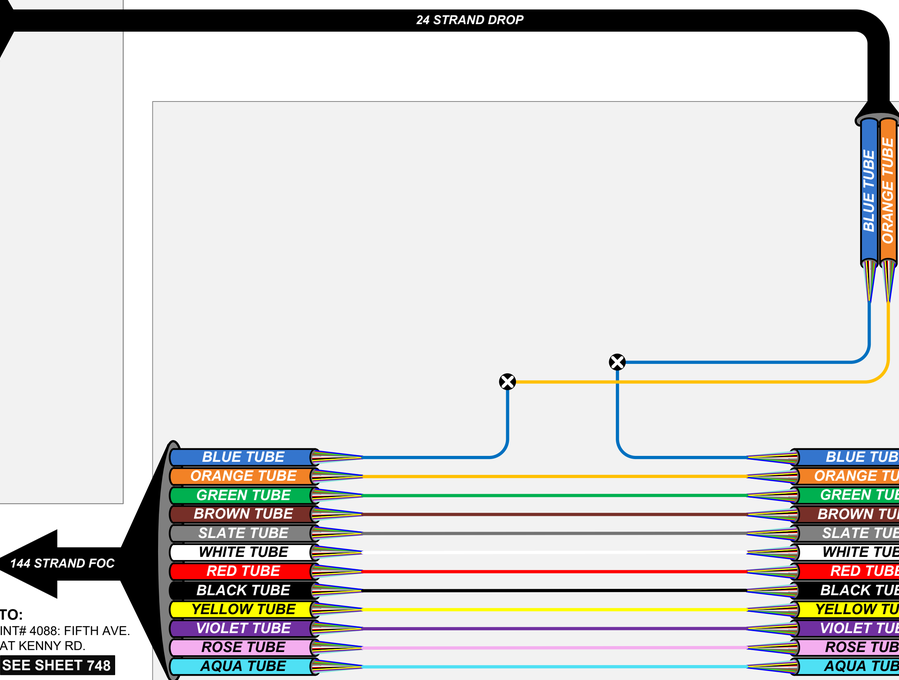


ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
SEE SHEET 968

PORT 6: INT# SIG4045: CHAMBERS RD. AT KENNY RD.
SEE SHEET 750





PATCH PANEL ENCLOSURE – 24 TERMINATION

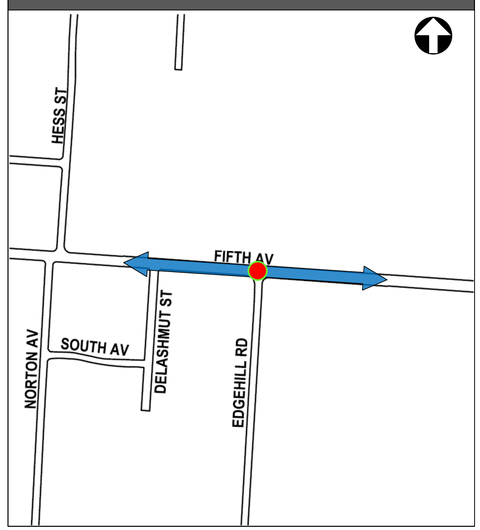
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4087

REFER TO SHEET 285 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

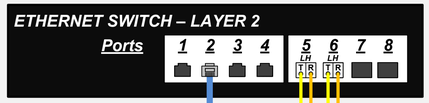
INT# 4087: EDGEHILL RD. AT FIFTH AVE.
COMMUNICATIONS DIAGRAM

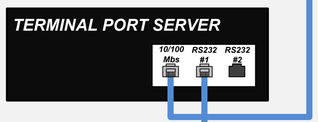
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

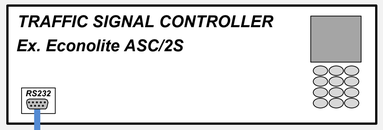
810
1000

J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\804-814.vsd - 4087 layout ~ last saved by: skoganti 3/31/2020 4:49:37 PM ~ printed: 3/31/2020 5:08:03 PM

TRAFFIC SIGNAL CABINET ASSEMBLY







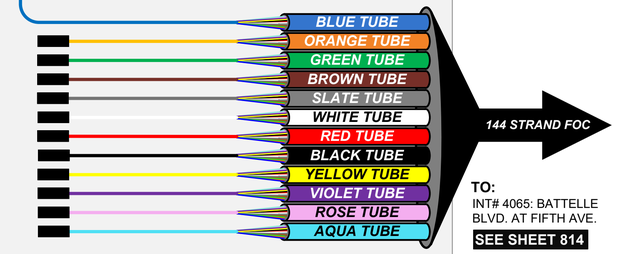
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4086: FIFTH AVE. AT OLENTANGY RIVER RD.
SEE SHEET 743

PORT 6: INT# 4078: MICHIGAN AVE. AT THIRD AVE.
SEE SHEET 816



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4065: BATTELLE BLVD. AT FIFTH AVE.
SEE SHEET 814

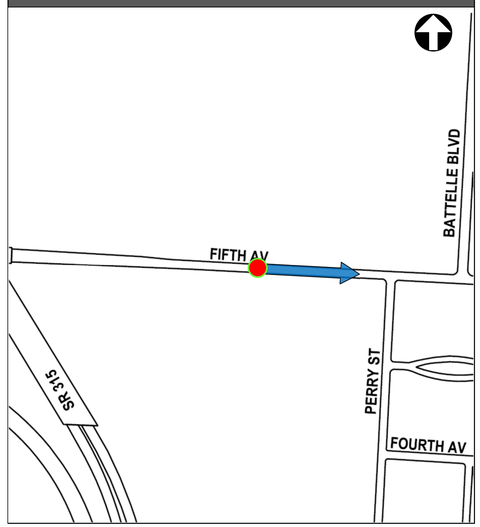
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4154

REFER TO SHEET 286 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4154: FIFTH AVE. AT TISDALE ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

811
1000

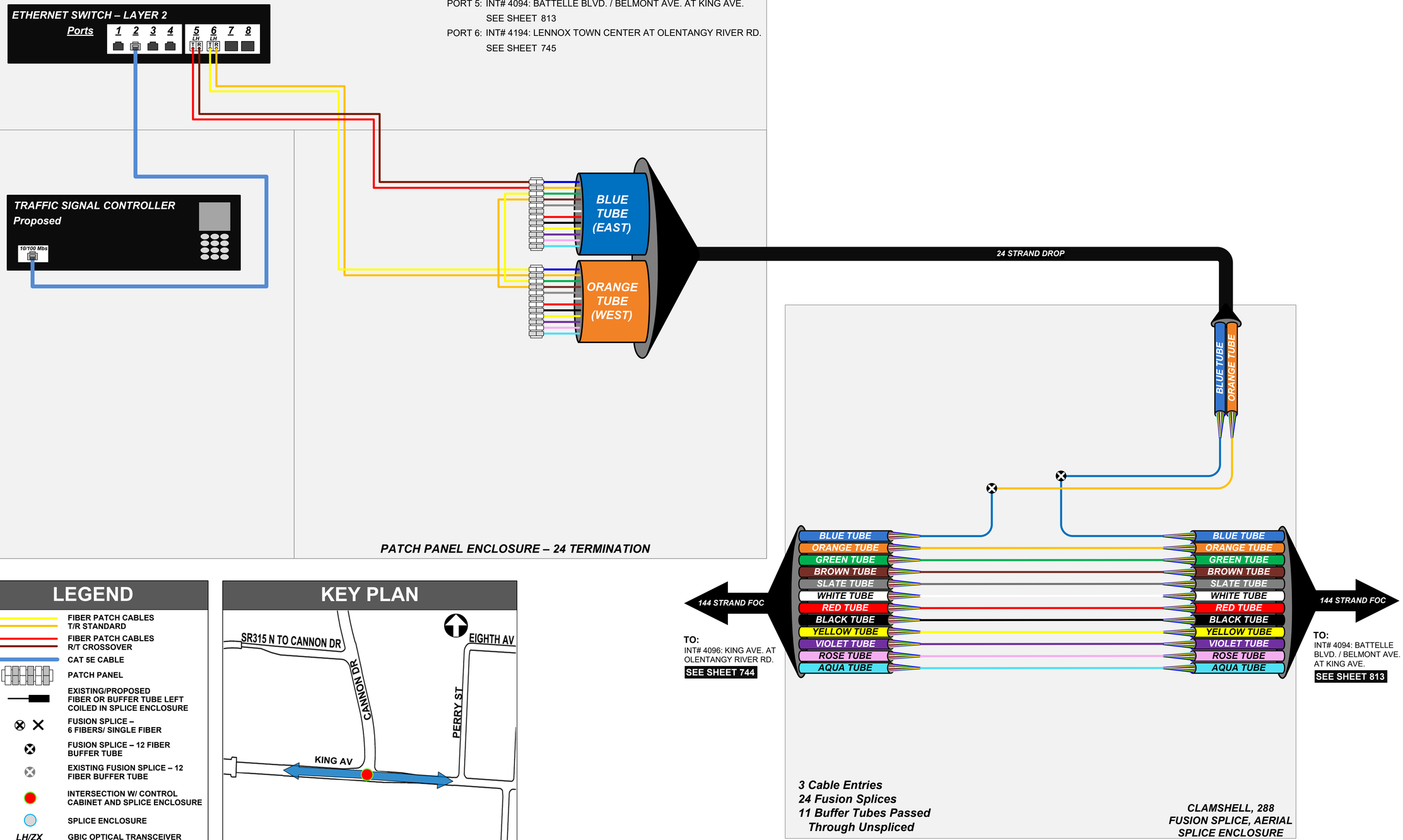
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4094: BATTELLE BLVD. / BELMONT AVE. AT KING AVE.
SEE SHEET 813

PORT 6: INT# 4194: LENNOX TOWN CENTER AT OLENTANGY RIVER RD.
SEE SHEET 745



TO:
INT# 4096: KING AVE. AT OLENTANGY RIVER RD.
SEE SHEET 744

TO:
INT# 4094: BATTELLE BLVD. / BELMONT AVE. AT KING AVE.
SEE SHEET 813

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN

INTERSECTION 4095

REFER TO SHEET 313 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4095: CANNON DR. AT KING AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

812
1000

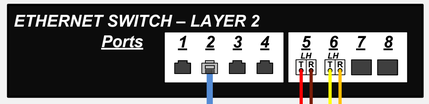
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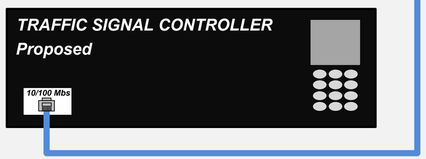
TRAFFIC SIGNAL CABINET ASSEMBLY

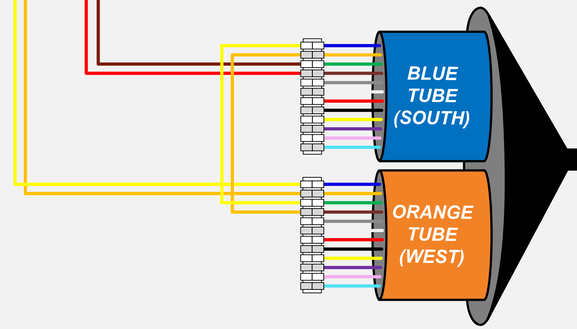
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4065: BATTELLE BLVD. AT FIFTH AVE.
SEE SHEET 814

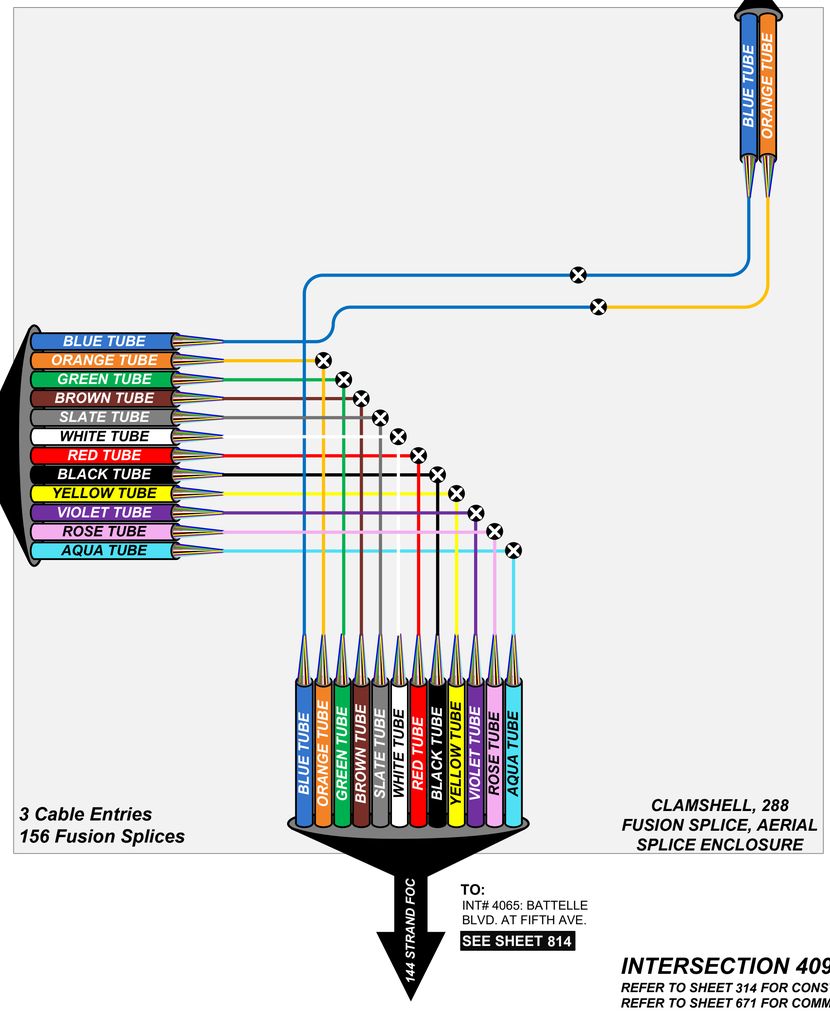
PORT 6: INT# 4095: CANNON DR. AT KING AVE.
SEE SHEET 812







PATCH PANEL ENCLOSURE – 24 TERMINATION



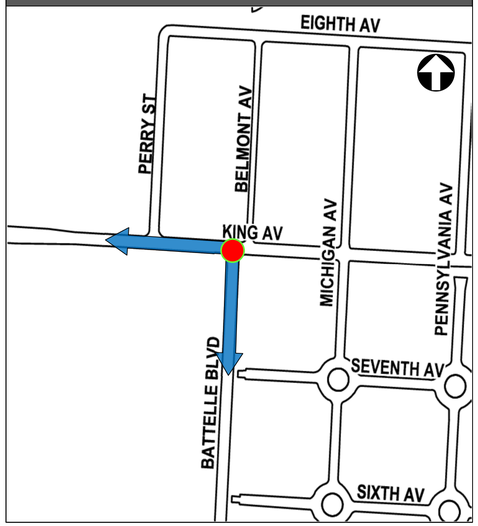
TO:
INT# 4095: CANNON DR. AT KING AVE.
SEE SHEET 812

TO:
INT# 4065: BATTELLE BLVD. AT FIFTH AVE.
SEE SHEET 814

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4094

REFER TO SHEET 314 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4094: BATTELLE BLVD. / BELMONT AVE. AT KING AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

813
1000

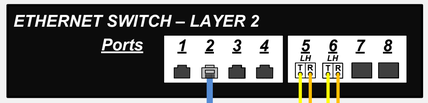
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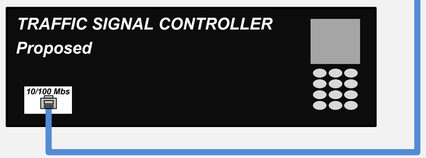
TRAFFIC SIGNAL CABINET ASSEMBLY

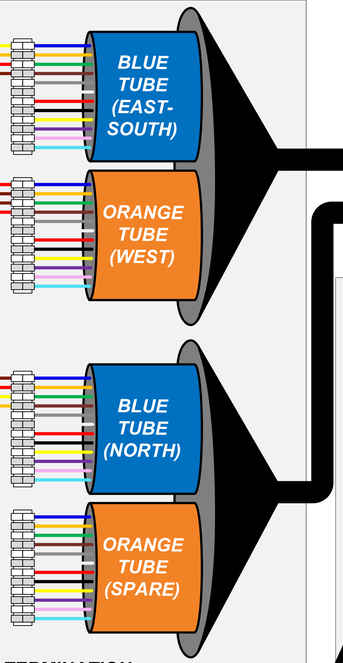
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4082: DENNISON AVE. AT FIFTH AVE.
SEE SHEET 817

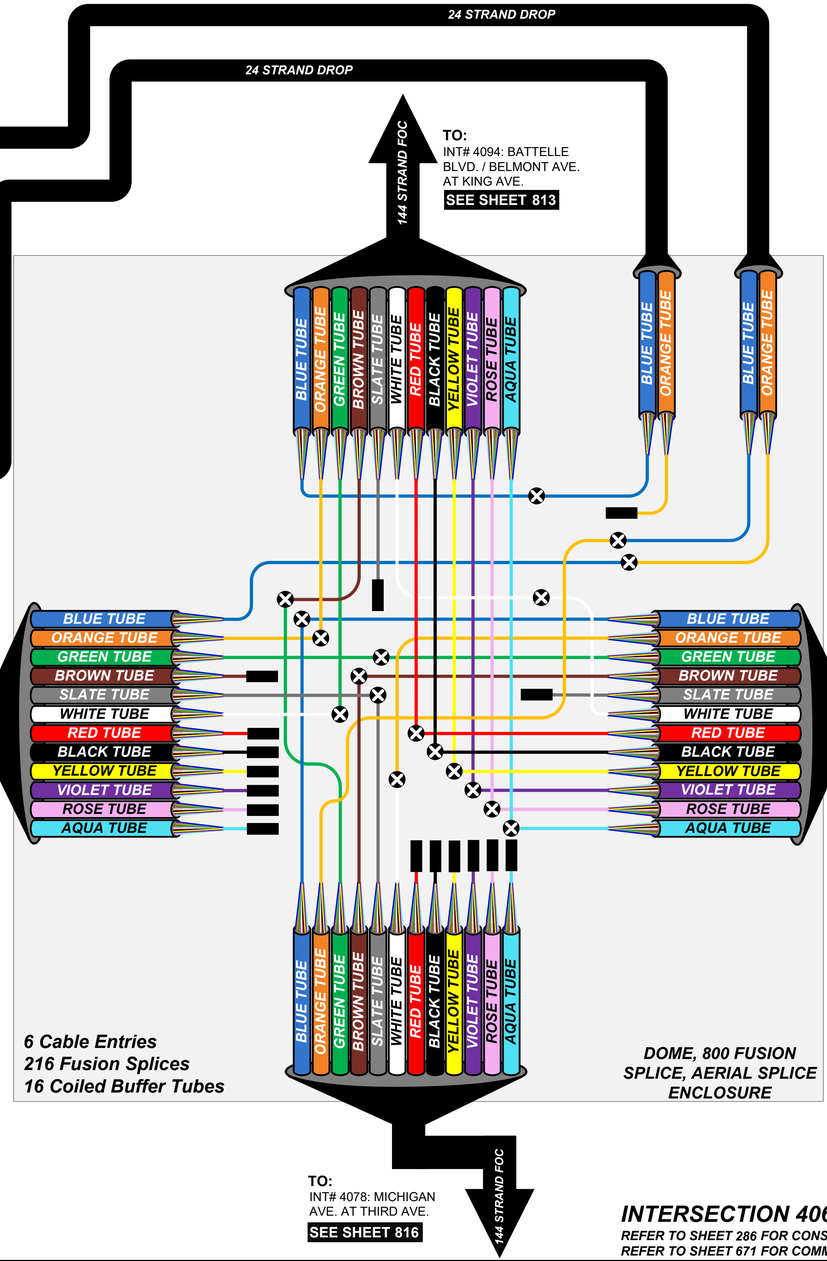
PORT 6: INT# 4094: BATTELLE BLVD. / BELMONT AVE. AT KING AVE.
SEE SHEET 813







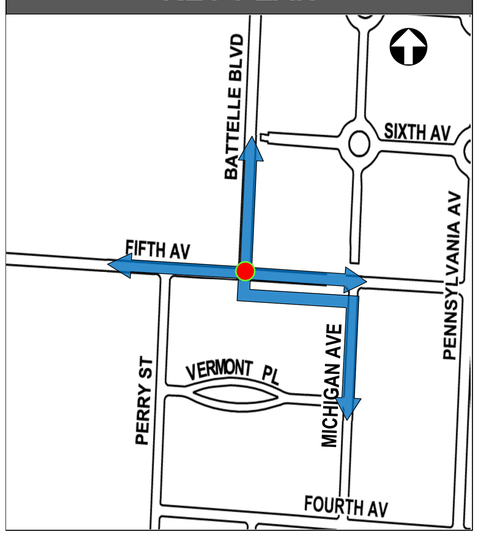
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4065

REFER TO SHEET 286 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4065: BATTELLE BLVD. AT FIFTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

814
1000

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CIP: 540007 - 100006
PID NUMBER: 82573

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – FINAL SUBMITTAL

815
1000

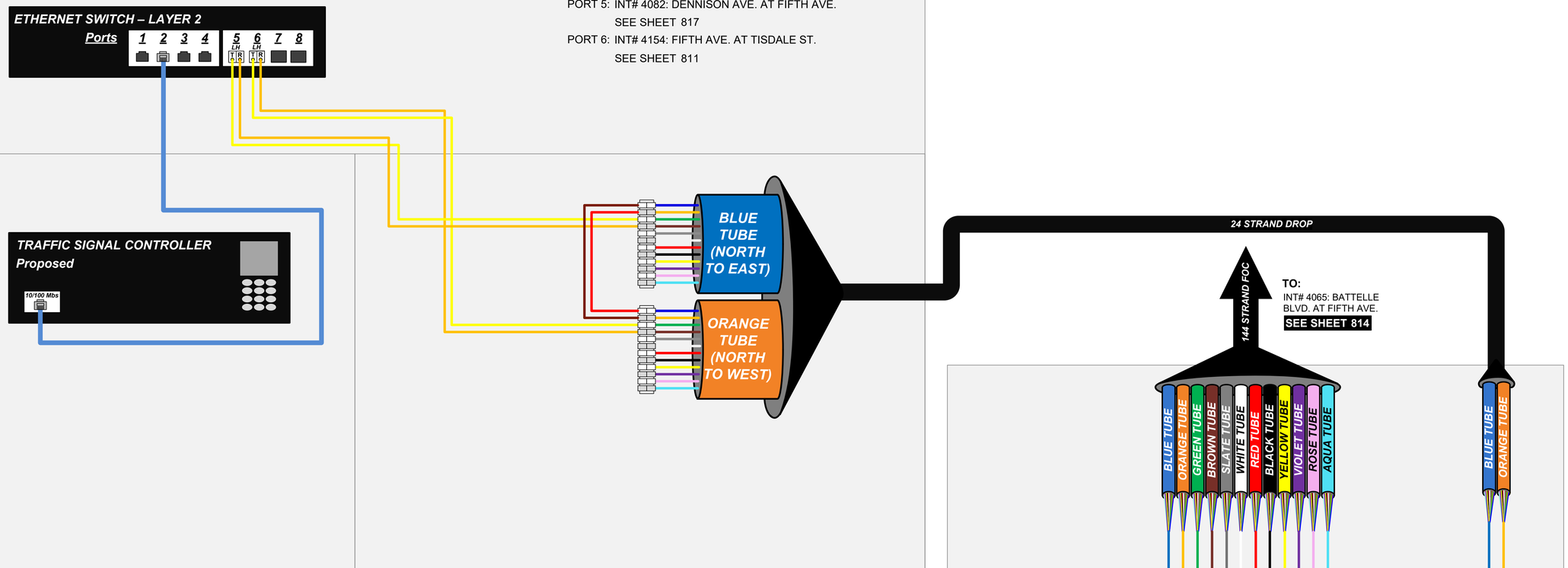
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4082: DENNISON AVE. AT FIFTH AVE.
SEE SHEET 817

PORT 6: INT# 4154: FIFTH AVE. AT TISDALE ST.
SEE SHEET 811



PATCH PANEL ENCLOSURE – 24 TERMINATION

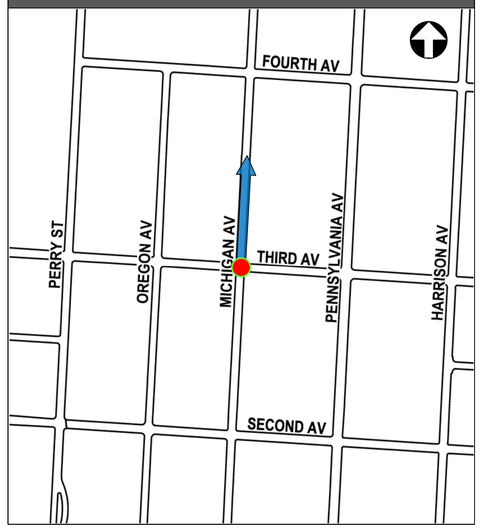
2 Cable Entries
24 Fusion Splices
10 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4078
REFER TO SHEET 289 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4078: MICHIGAN AVE. AT THIRD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

816
1000

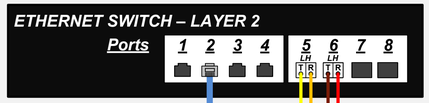
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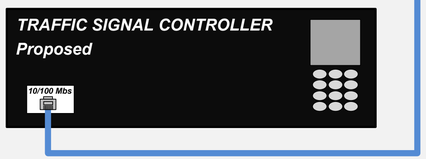
TRAFFIC SIGNAL CABINET ASSEMBLY

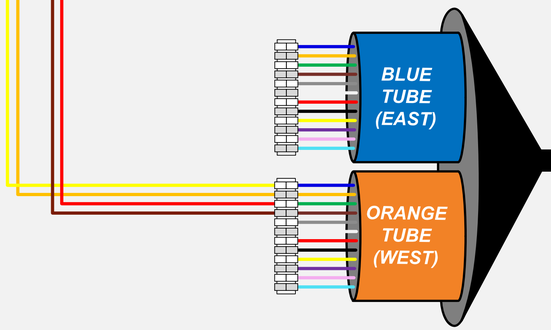
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4065: BATTELLE BLVD. AT FIFTH AVE.
SEE SHEET 814

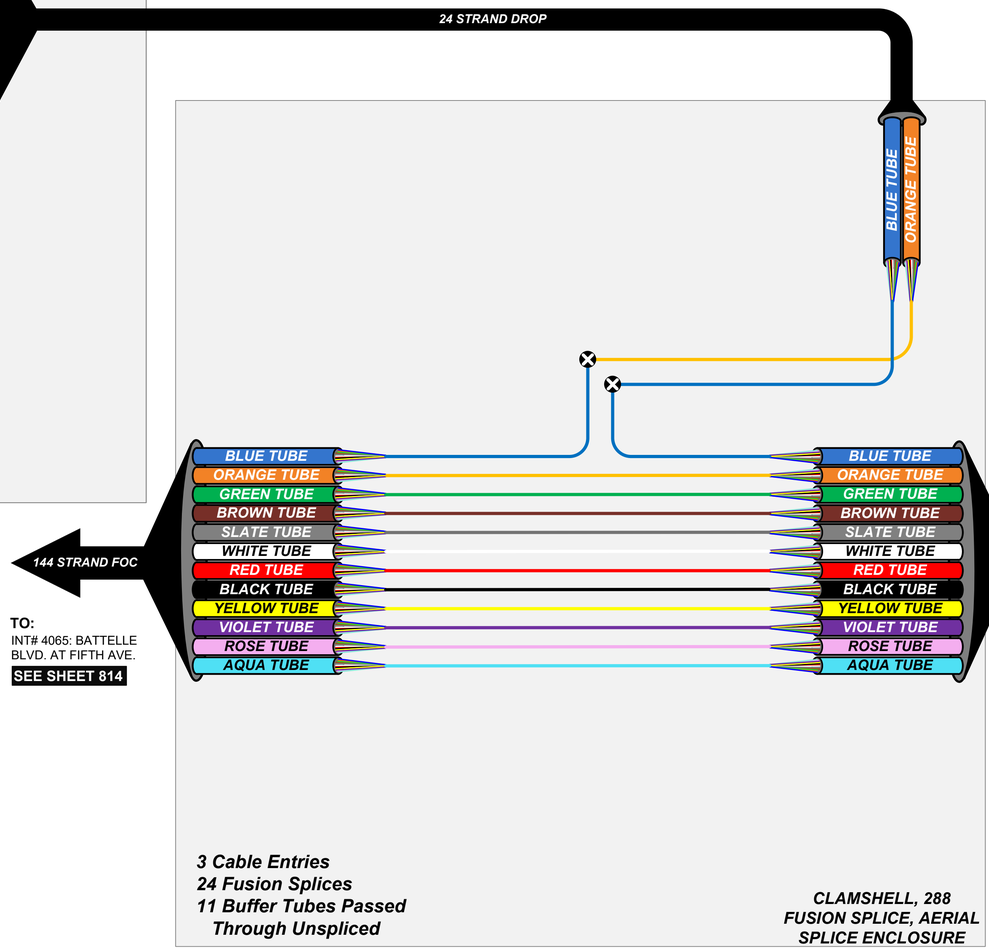
PORT 6: INT# 4078: MICHIGAN AVE. AT THIRD AVE.
SEE SHEET 816







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4065: BATTELLE BLVD. AT FIFTH AVE.
SEE SHEET 814

TO:
INT# 4017: FIFTH AVE. AT N HIGH ST.
SEE SHEET 696

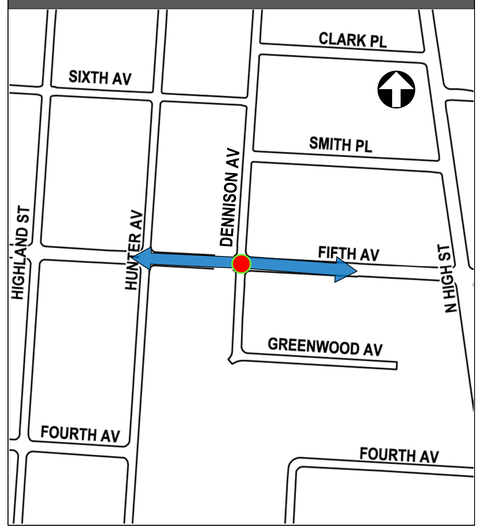
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4082

REFER TO SHEET 292 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4082: DENNISON AVE. AT FIFTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

817
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH, 6 LH)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100
Ethernet Module — 10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING INTERSECTION 3014: CLEVELAND AVE. AT WINDSOR AVE.

PORT 6: INT# 3010: CLEVELAND AVE. AT SECOND AVE.
SEE SHEET 820

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

EXISTING 24 STRAND DROP

- BLUE TUBE (NORTH)
- ORANGE TUBE (EAST)

EXISTING 144 STRAND FOC

TO:
FIELDS TRANSIT
DATA CENTER

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 — ***EXISTING 12 STRAND DROP***
- BLUE TUBE — ***EXISTING 12 STRAND DROP***

TO: EXISTING COTA CABINETS

- 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 144 STRAND FOC

TO:
INT# 3012: CLEVELAND AVE. AT FIFTH AVE.
SEE SHEET 819

- 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

TO:
INT# 3012: CLEVELAND AVE. AT FIFTH AVE.
SEE SHEET 819

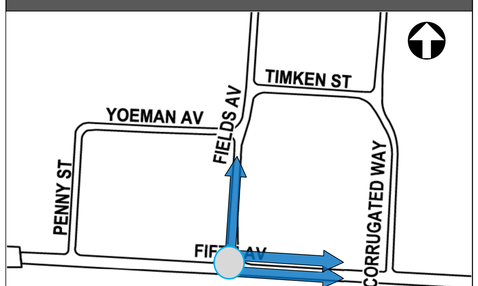
6 Cable Entries
120 Proposed Fusion Splices
48 Existing Fusion Splices
4 Coiled Buffer Tubes
4 Buffer Tubes Passed Through Unspliced

EXISTING DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

EXISTING WORK SHOWN ON THIS SHEET IS TO BE PERFORMED BY OTHERS. REFER TO COTA BRT PROJECT 3163-E

REMOVE EXISTING FUSION SPLICES AND RESPLICE BUFFER TUBES AS SHOWN IN THE DIAGRAM ABOVE.

FINAL DoT SPLICING CONFIGURATION TO BE DETERMINED ON INPUT FROM COLUMBUS DoT.

3032

REFER TO SHEET 296 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 674 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3032: FIELDS AVE. AT FIFTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING INTERSECTION 3013: CLEVELAND AVE. AT ELEVENTH AVE.

PORT 6: **INT# 3010: CLEVELAND AVE. AT SECOND AVE.**
(Revised) **SEE SHEET 820**

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (NORTH)
ORANGE TUBE (SPARE)
BLUE TUBE (WEST)
ORANGE TUBE (SOUTH)

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP

BLUE TUBE
ORANGE TUBE

TO:
INT# 3030: ELEVENTH AVE. AT I-71 NB RAMPS
SEE SHEET 855

144 STRAND FOC

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

TO:
INT# 3032: FIELDS AVE. AT FIFTH AVE.
SEE SHEET 818

144 STRAND FOC

TO:
INT# 3035: FIFTH AVE. AT I-71 SB RAMPS
SEE SHEET 821

24 STRAND DROP

BLUE TUBE
ORANGE TUBE

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 3032: FIELDS AVE. AT FIFTH AVE.
SEE SHEET 818

BLUE TUBE
ORANGE TUBE

BLUE TUBE — EXISTING 12 STRAND DROP
BLUE TUBE — EXISTING 12 STRAND DROP
TO: EXISTING COTA CABINETS

BLUE TUBE
ORANGE TUBE

10 Cable Entries
216 Proposed Fusion Splices
36 Existing Fusion Splices
8 Coiled Buffer Tubes
8 Buffer Tubes Passed Through Unspliced

EXISTING DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

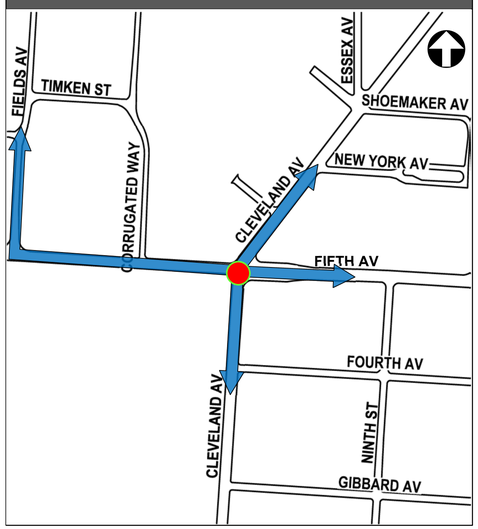
EXISTING 144 STRAND FOC

TO:
INT# 3010:CLEVELAND AVE. AND SECOND AVE.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

EXISTING WORK SHOWN ON THIS SHEET IS TO BE PERFORMED BY OTHERS. REFER TO COTA BRT PROJECT 3163-E

REMOVE EXISTING FUSION SPLICES AND RESPLICE BUFFER TUBES AS SHOWN IN THE DIAGRAM ABOVE.

FINAL DoT SPLICING CONFIGURATION TO BE DETERMINED ON INPUT FROM COLUMBUS DoT.

LAYER 2 ETHERNET SWITCH PORT #5 DESTINATION CHANGED FROM INT# 0007: CLEVELAND AVE. AND FORT HAYES. TO INT# 3010: CLEVELAND AVE. AT SECOND AVE.

INTERSECTION 3012
REFER TO SHEET 297 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3012: CLEVELAND AVE. AT FIFTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

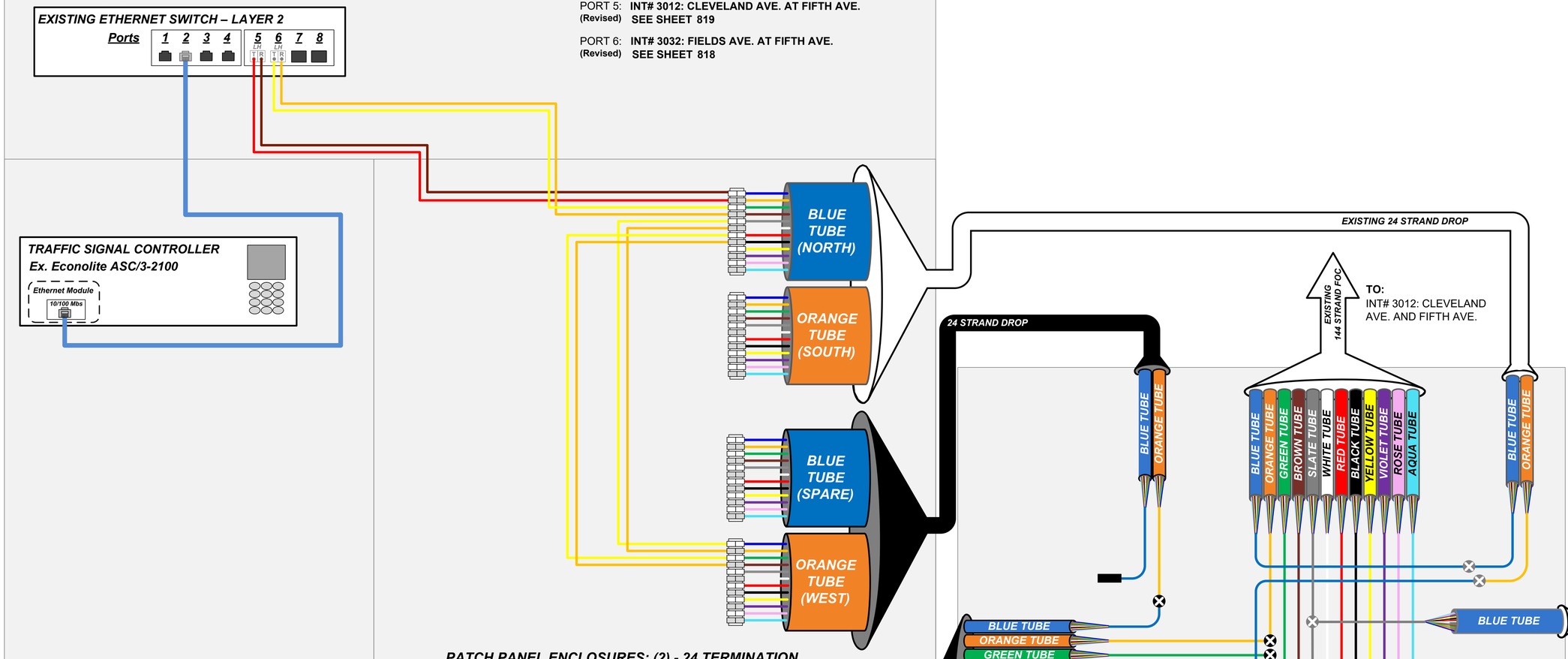
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: **INT# 3012: CLEVELAND AVE. AT FIFTH AVE.**
(Revised) **SEE SHEET 819**

PORT 6: **INT# 3032: FIELDS AVE. AT FIFTH AVE.**
(Revised) **SEE SHEET 818**



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

EXISTING WORK SHOWN ON THIS SHEET IS TO BE PERFORMED BY OTHERS. REFER TO COTA BRT PROJECT 3163-E

REMOVE EXISTING FUSION SPLICES AND RESPLICE BUFFER TUBES AS SHOWN IN THE DIAGRAM ABOVE.

FINAL DoT SPLICING CONFIGURATION TO BE DETERMINED ON INPUT FROM COLUMBUS DoT.

DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

LAYER 2 ETHERNET SWITCH PORT #6 DESTINATION CHANGED FROM INT AT CLEVELAND AVE. AND JACK GIBBS BLVD TO INT# 3012: CLEVELAND AVE. AT FIFTH AVE.

INTERSECTION 3010

REFER TO SHEET 394 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

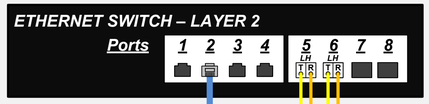
INT# 3010: CLEVELAND AVE. AT SECOND AVE.
COMMUNICATIONS DIAGRAM

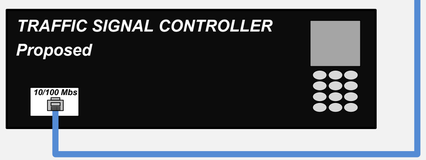
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

820
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

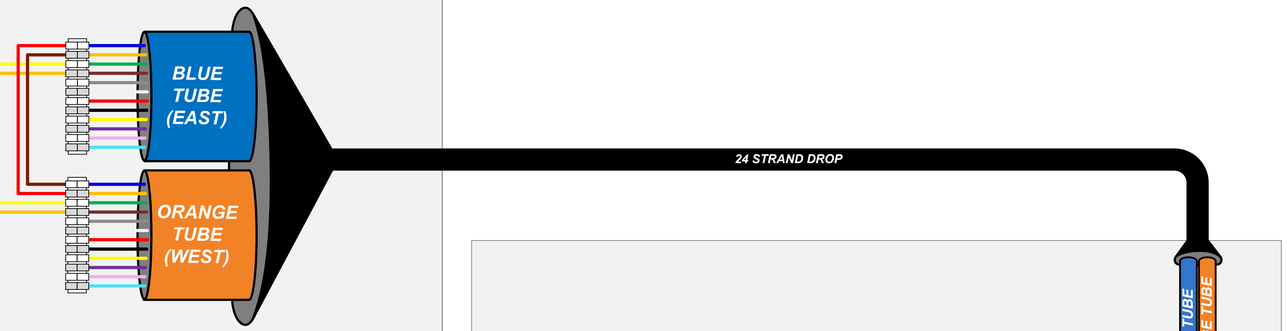




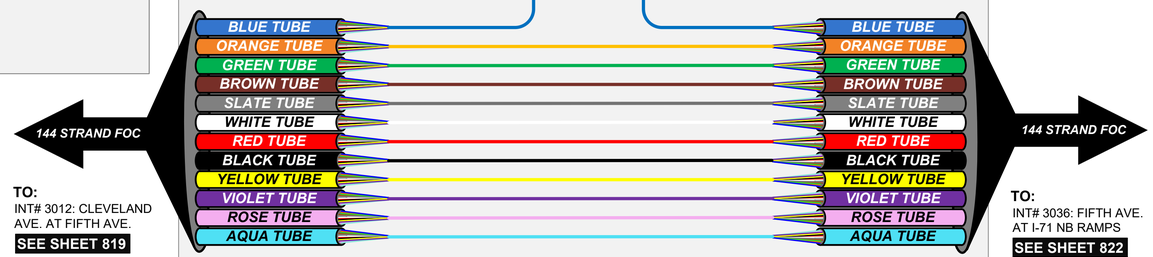
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3037: FIFTH AVE. AT ST. CLAIR AVE.
SEE SHEET 823

PORT 6: INT# 3030: ELEVENTH AVE. AT I-71 NB RAMPS
SEE SHEET 855



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3012: CLEVELAND AVE. AT FIFTH AVE.
SEE SHEET 819

TO:
INT# 3036: FIFTH AVE. AT I-71 NB RAMPS
SEE SHEET 822

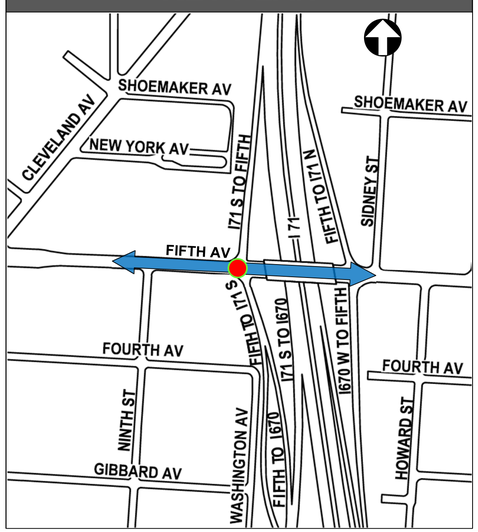
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3035

REFER TO SHEET 299 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

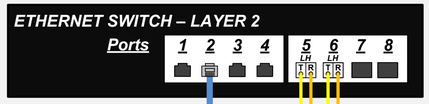
INT# 3035: FIFTH AVE. AT I-71 SB RAMPS
COMMUNICATIONS DIAGRAM

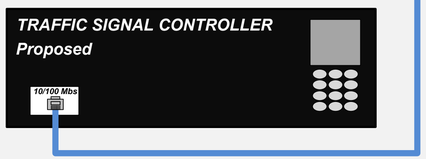
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

821
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TRAFFIC SIGNAL CABINET ASSEMBLY

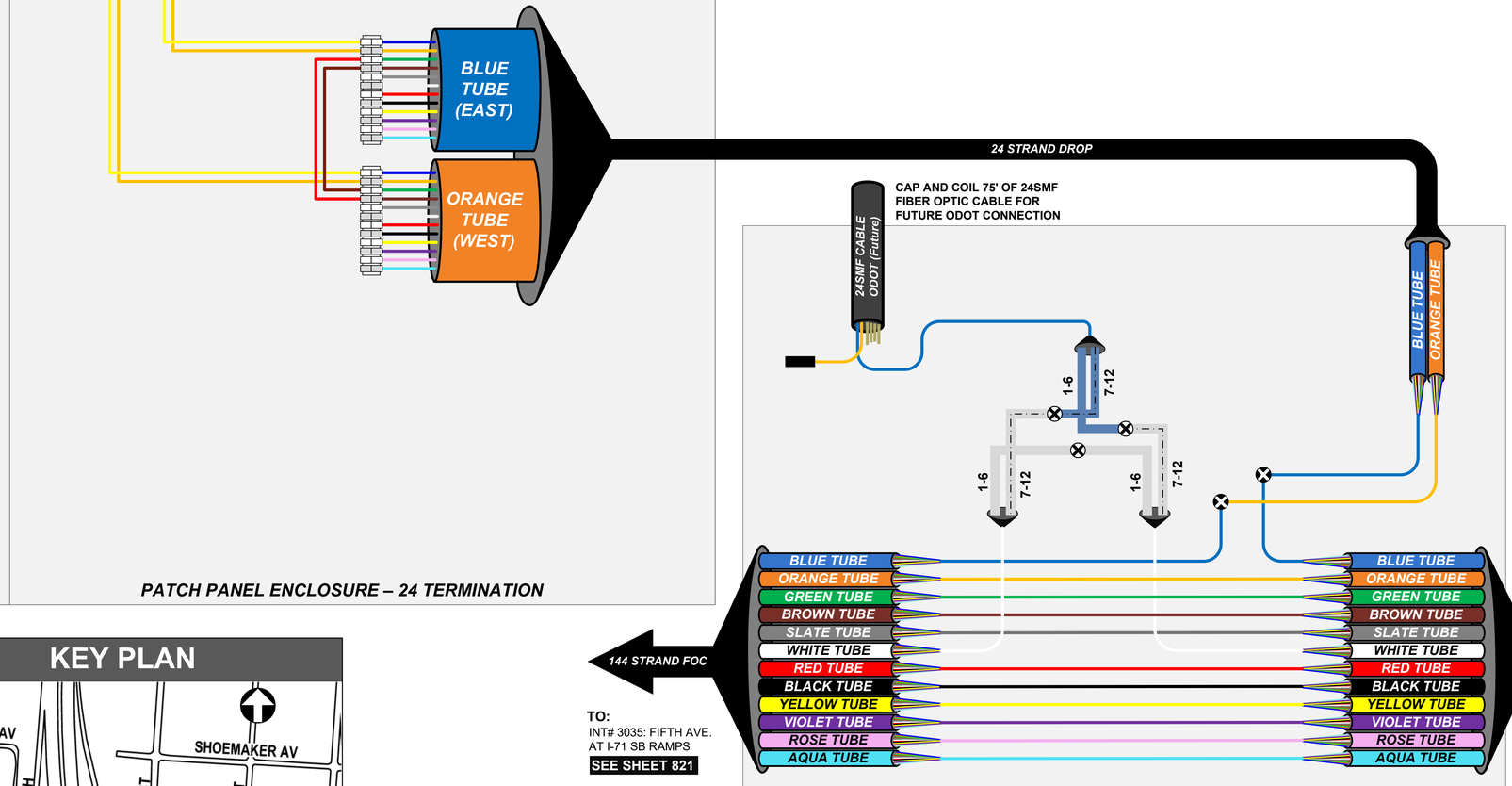




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3037: FIFTH AVE. AT ST. CLAIR AVE.
SEE SHEET 823

PORT 6: INT# 3126: JOYCE AVE. AT SEVENTEENTH AVE.
SEE SHEET 859

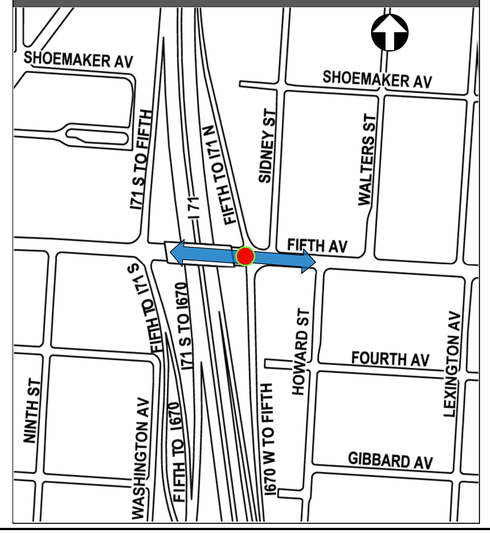


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3036

REFER TO SHEET 300 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

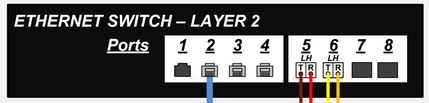
INT# 3036: FIFTH AVE. AT I-71 NB RAMPS
COMMUNICATIONS DIAGRAM

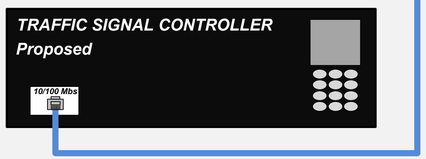
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

822
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TRAFFIC SIGNAL CABINET ASSEMBLY

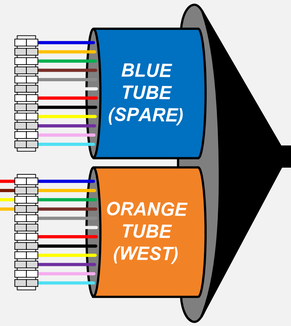




ETHERNET SWITCH PORT DESTINATION

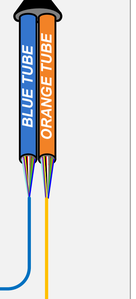
PORT 5: INT# 3036: FIFTH AVE. AT I-71 NB RAMPS
SEE SHEET 822

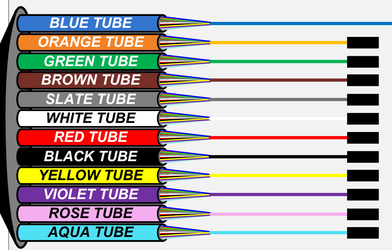
PORT 6: INT# 3035: FIFTH AVE. AT I-71 SB RAMPS
SEE SHEET 821



PATCH PANEL ENCLOSURE – 24 TERMINATION







144 STRAND FOC

TO:
INT# 3036: FIFTH AVE.
AT I-71 NB RAMPS
SEE SHEET 822

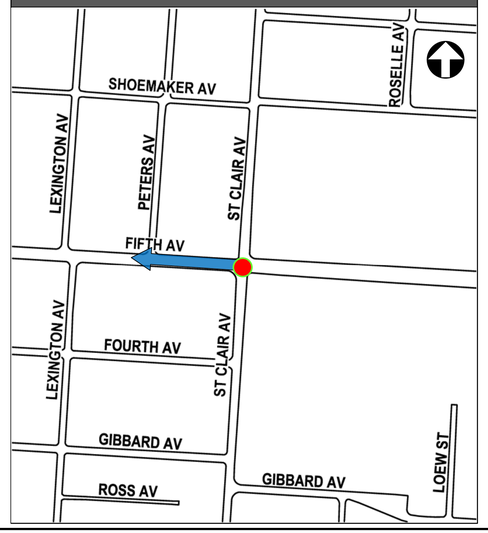
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3037
REFER TO SHEET 301 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3037: FIFTH AVE. AT ST. CLAIR AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

823
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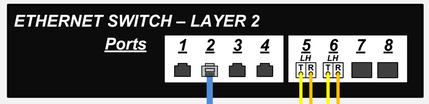
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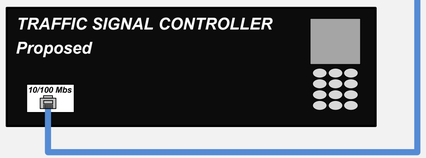
TRAFFIC SIGNAL CABINET ASSEMBLY

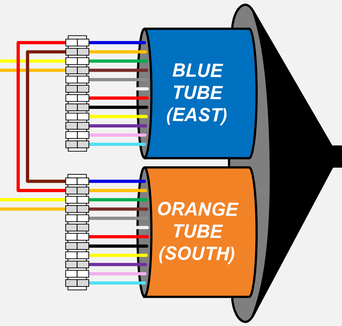
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4098: KING AVE. AT NORTHWEST BLVD.
SEE SHEET 825

PORT 6: INT# 4091: BROADVIEW AVE. AT FIFTH AVE.
SEE SHEET 805

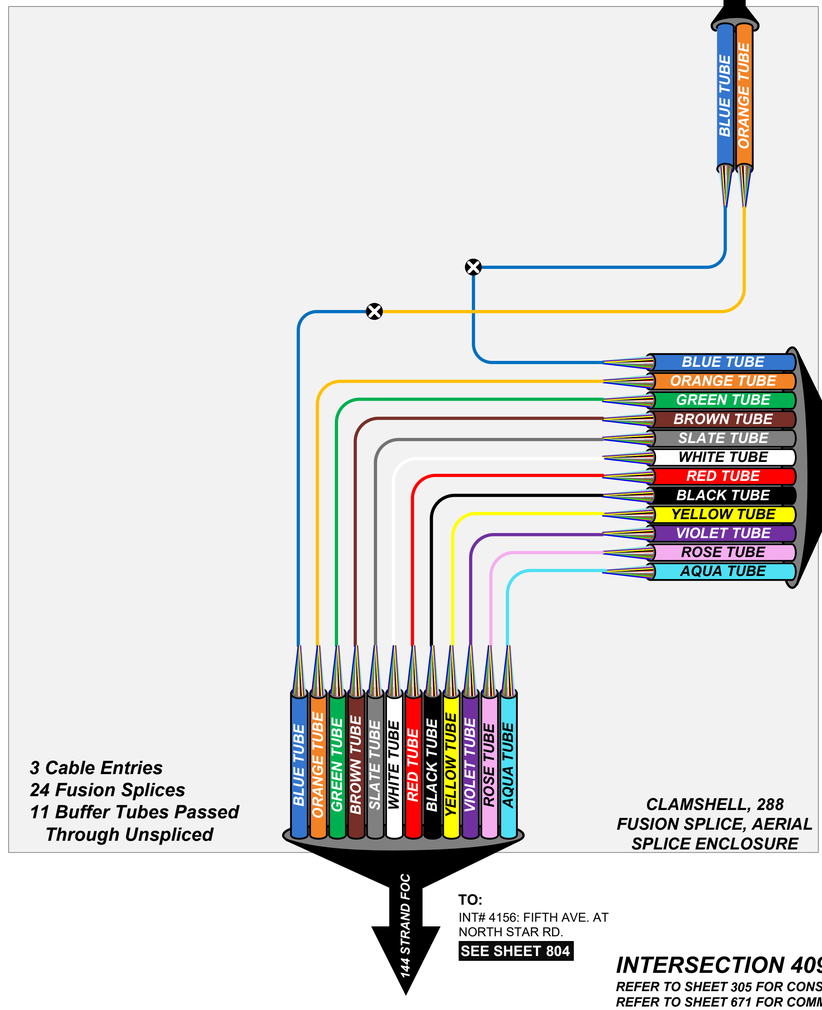






PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP



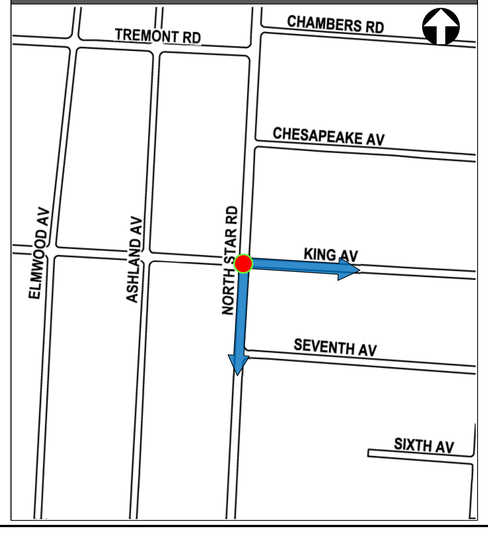
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4099

REFER TO SHEET 305 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

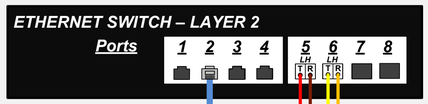
INT# 4099: KING AVE. AT NORTH STAR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

824
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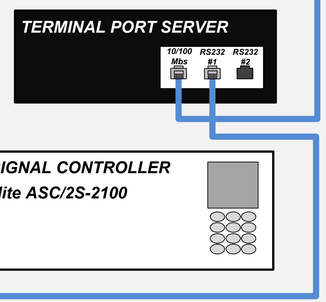
TRAFFIC SIGNAL CABINET ASSEMBLY

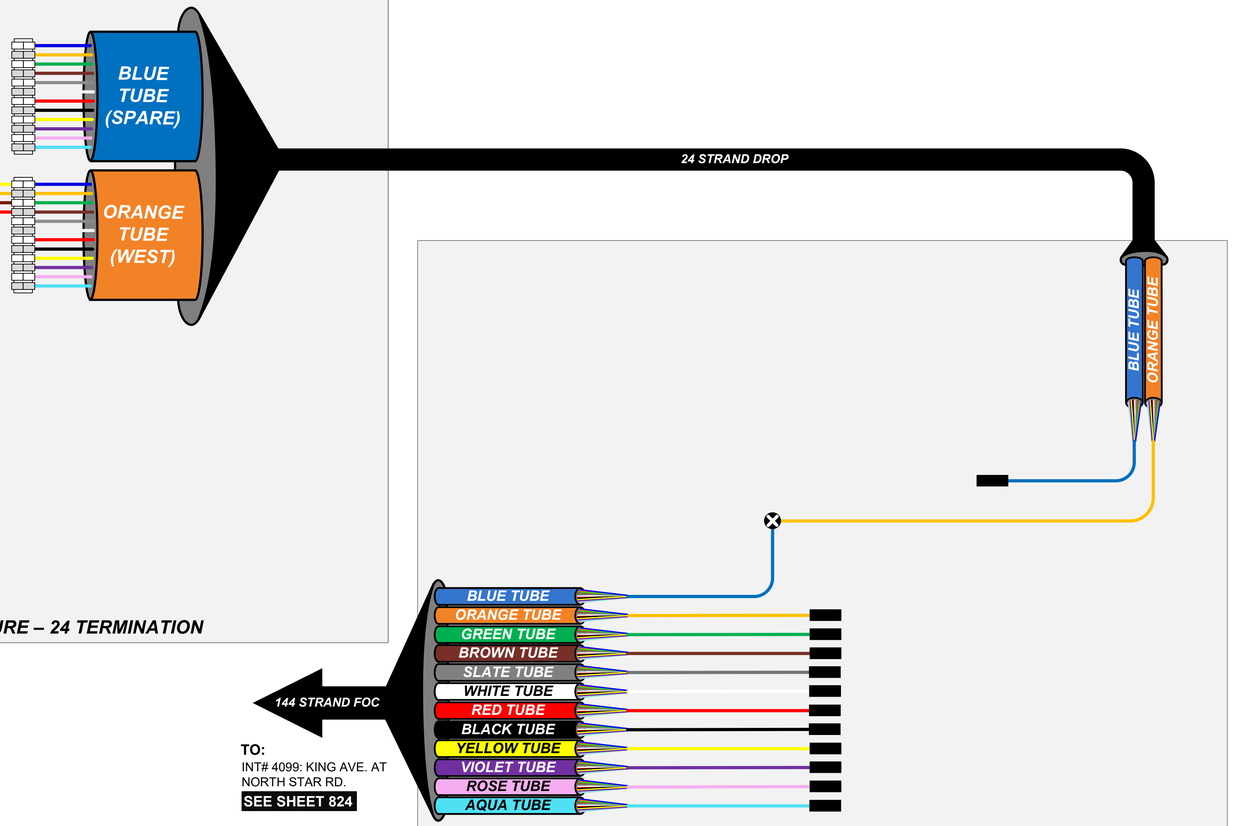


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4099: KING AVE. AT NORTH STAR RD.
SEE SHEET 824

PORT 6: INT# 4156: FIFTH AVE. AT NORTH STAR RD.
SEE SHEET 804





TO:
INT# 4099: KING AVE. AT NORTH STAR RD.
SEE SHEET 824

PATCH PANEL ENCLOSURE – 24 TERMINATION

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4098
REFER TO SHEET 307 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 671 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 4098: KING AVE. AT NORTHWEST BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

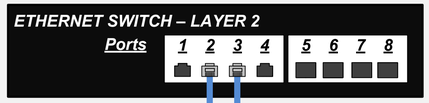
825
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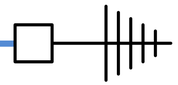
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TRAFFIC SIGNAL CABINET ASSEMBLY

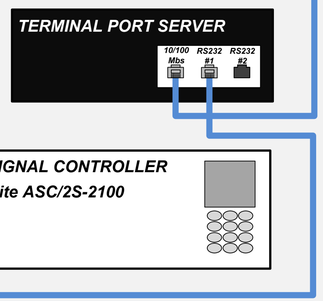
ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# SIG4045: CHAMBERS RD. AT KENNY RD.
SEE SHEET 750





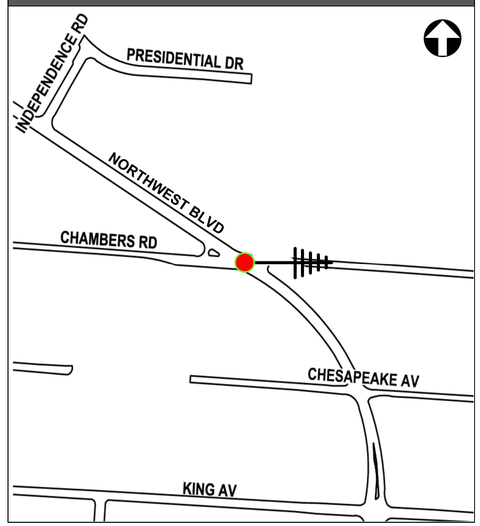
TO:
INT# SIG4045: CHAMBERS RD. AT KENNY RD.
SEE SHEET 750



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4055

REFER TO SHEET 309 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

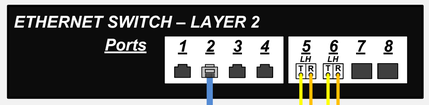
INT# 4055: CHAMBERS RD. AT NORTHWEST BLVD.
COMMUNICATIONS DIAGRAM

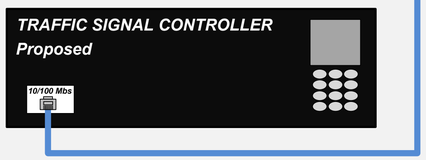
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

826
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

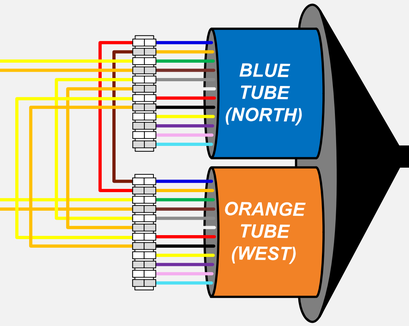




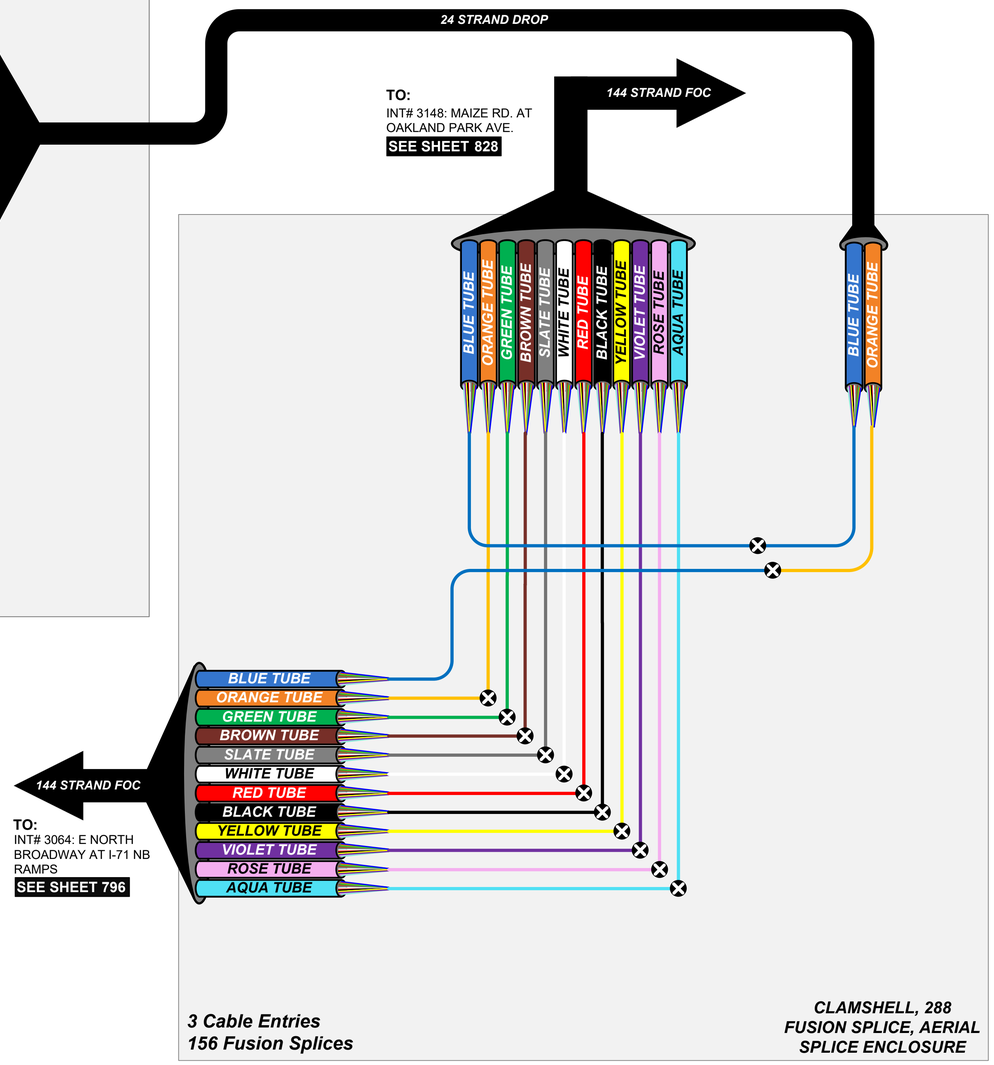
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3149: ATWOOD TERRACE AT OAKLAND PARK AVE.
SEE SHEET 829

PORT 6: EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
SEE SHEET 996



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3146

REFER TO SHEET 504 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3146: E NORTH BROADWAY AT REIS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

827
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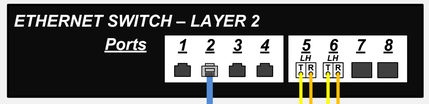
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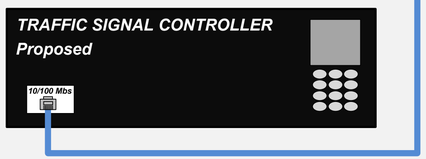
TRAFFIC SIGNAL CABINET ASSEMBLY

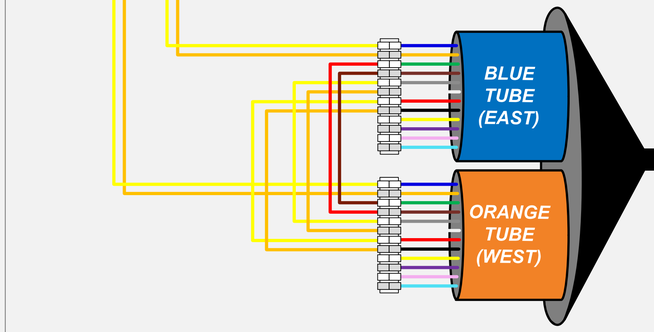
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3151: KARL RD. AT OAKLAND PARK AVE.
SEE SHEET 831

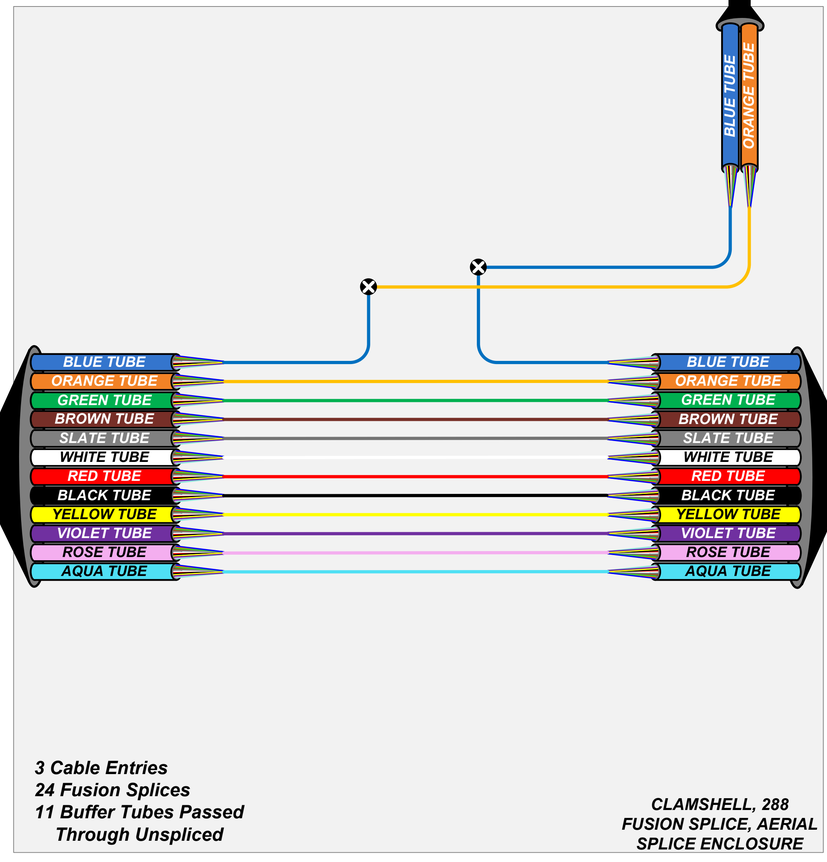
PORT 6: INT# 3064: E NORTH BROADWAY AT I-71 NB RAMPS
SEE SHEET 796







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3146: E NORTH BROADWAY AT REIS AVE.
SEE SHEET 827

TO:
INT# 3149: ATWOOD TERRACE AT OAKLAND PARK AVE.
SEE SHEET 829

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3148

REFER TO SHEET 506 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3148: MAIZE RD. AT OAKLAND PARK AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

828
1000

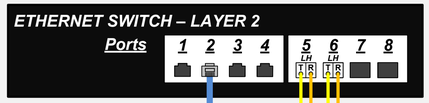
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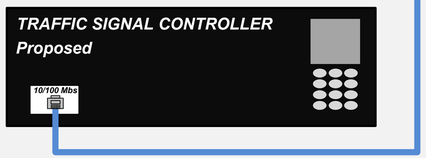
TRAFFIC SIGNAL CABINET ASSEMBLY

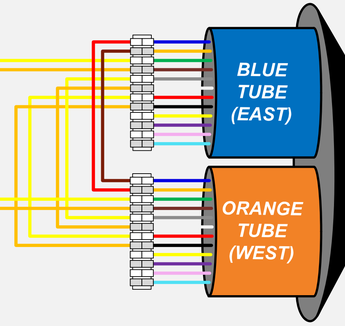
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3155: HUY RD. / LENORE AVE. AT KARL RD.
SEE SHEET 832

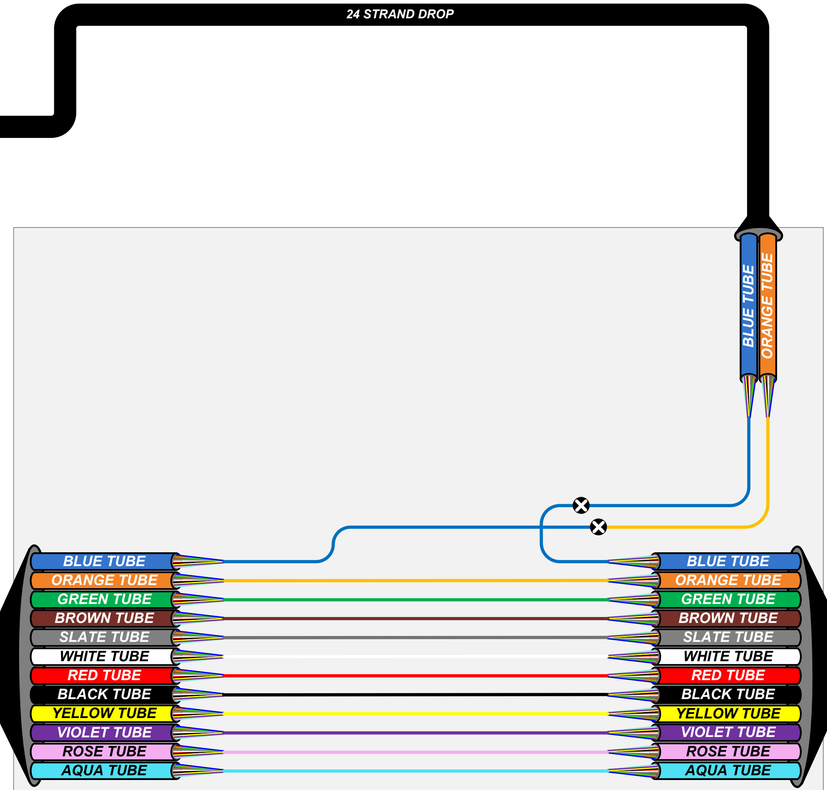
PORT 6: INT# 3146: E NORTH BROADWAY AT REIS AVE.
SEE SHEET 827







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3148: MAIZE RD. AT OAKLAND PARK AVE.
SEE SHEET 828

TO:
SPLICE-13: MCGUFFEY RD. AT OAKLAND PARK AVE.
SEE SHEET 830

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3149

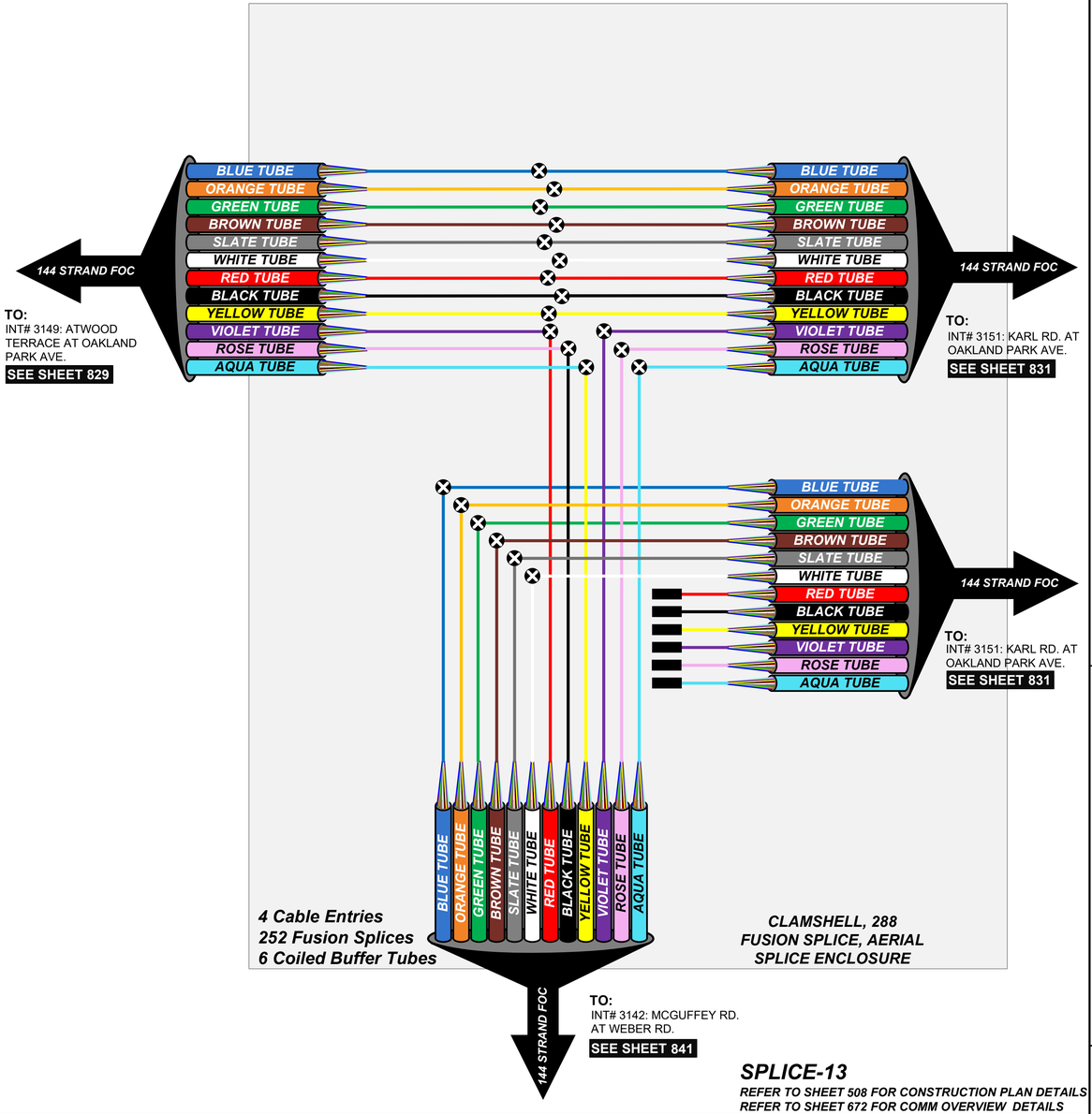
REFER TO SHEET 507 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3149: ATWOOD TERRACE AT OAKLAND PARK AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE-13

REFER TO SHEET 508 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

SPLICE-13: MCGUFFEY RD. AT OAKLAND PARK AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

830
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3157: ELMORE AVE. AT KARL RD.
SEE SHEET 833

PORT 6: INT# 3148: MAIZE RD. AT OAKLAND PARK AVE.
SEE SHEET 828

ETHERNET SWITCH – LAYER 2
Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

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

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

BLUE TUBE (NORTH)
ORANGE TUBE (WEST)
BLUE TUBE (SPARE)
ORANGE TUBE (WEST)

144 STRAND FOC

TO:
INT# 3155: HUY RD. / LENORE AVE. AT KARL RD.
SEE SHEET 832

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

144 STRAND FOC

TO:
SPLICE-13: MCGUFFEY RD. AT OAKLAND PARK AVE.
SEE SHEET 830

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

TO:
SPLICE-13: MCGUFFEY RD. AT OAKLAND PARK AVE.
SEE SHEET 830

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

5 Cable Entries
168 Fusion Splices
12 Coiled Buffer Tubes

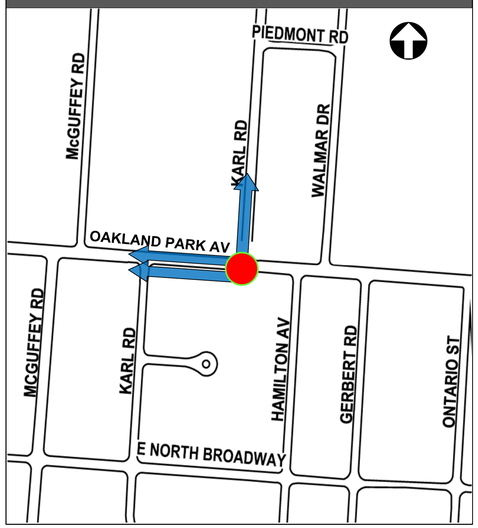
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3151

REFER TO SHEET 509 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3151: KARL RD. AT OAKLAND PARK AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

831
1000

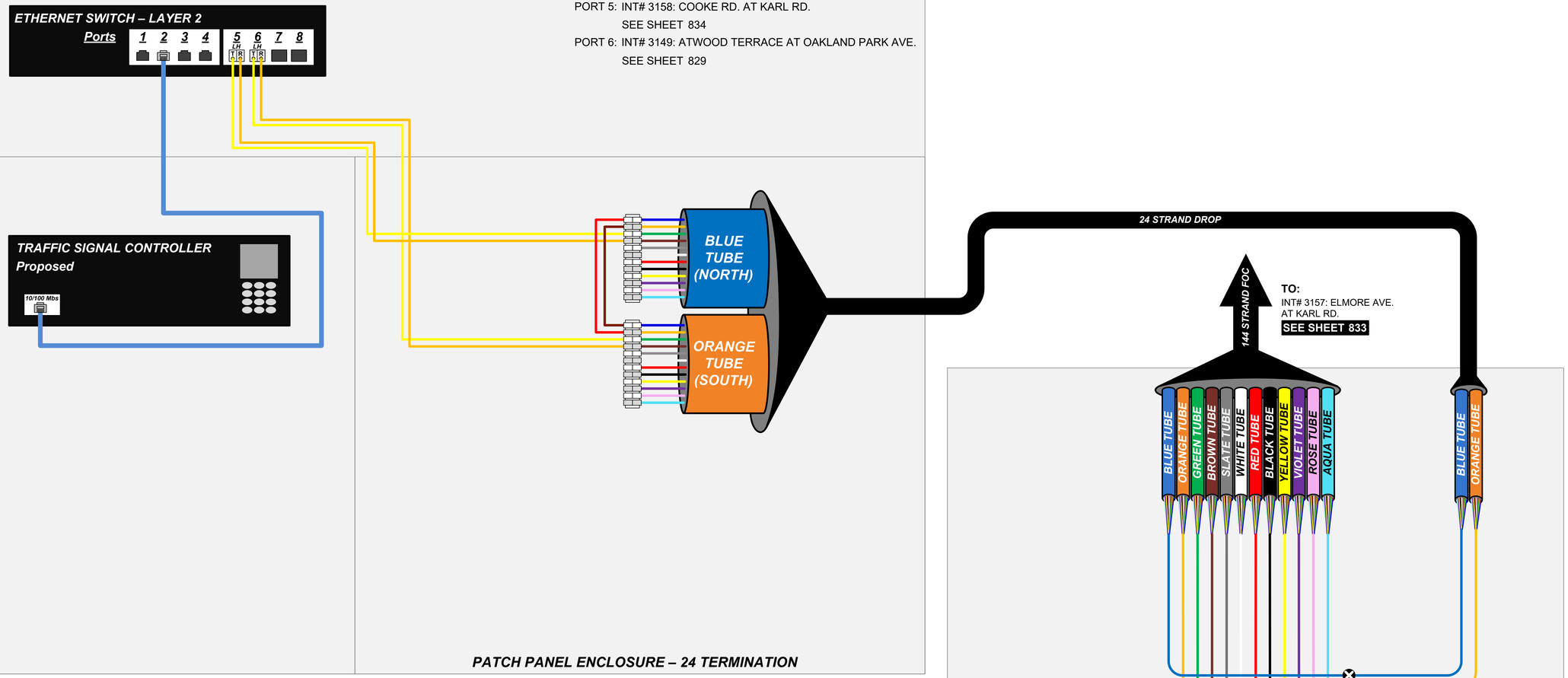
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3158: COOKE RD. AT KARL RD.
SEE SHEET 834

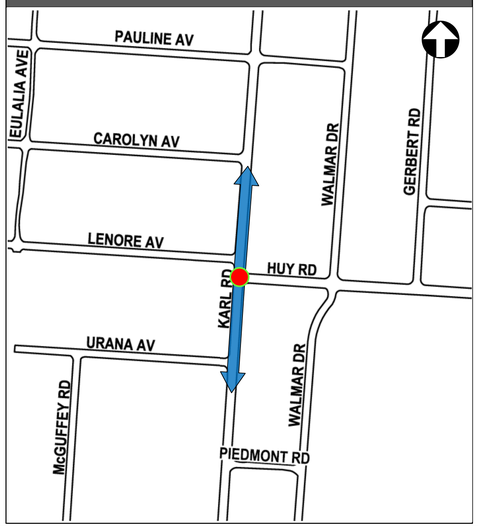
PORT 6: INT# 3149: ATWOOD TERRACE AT OAKLAND PARK AVE.
SEE SHEET 829



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3155: HUY RD. / LENORE AVE. AT KARL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

INTERSECTION 3155

REFER TO SHEET 512 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

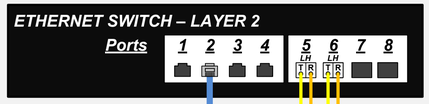
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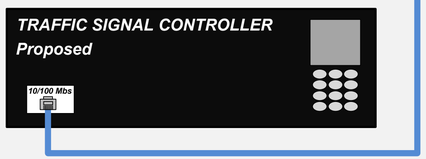
TRAFFIC SIGNAL CABINET ASSEMBLY

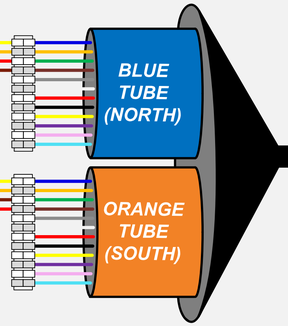
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# N001: FERRIS RD. AT KARL RD.
SEE SHEET 835

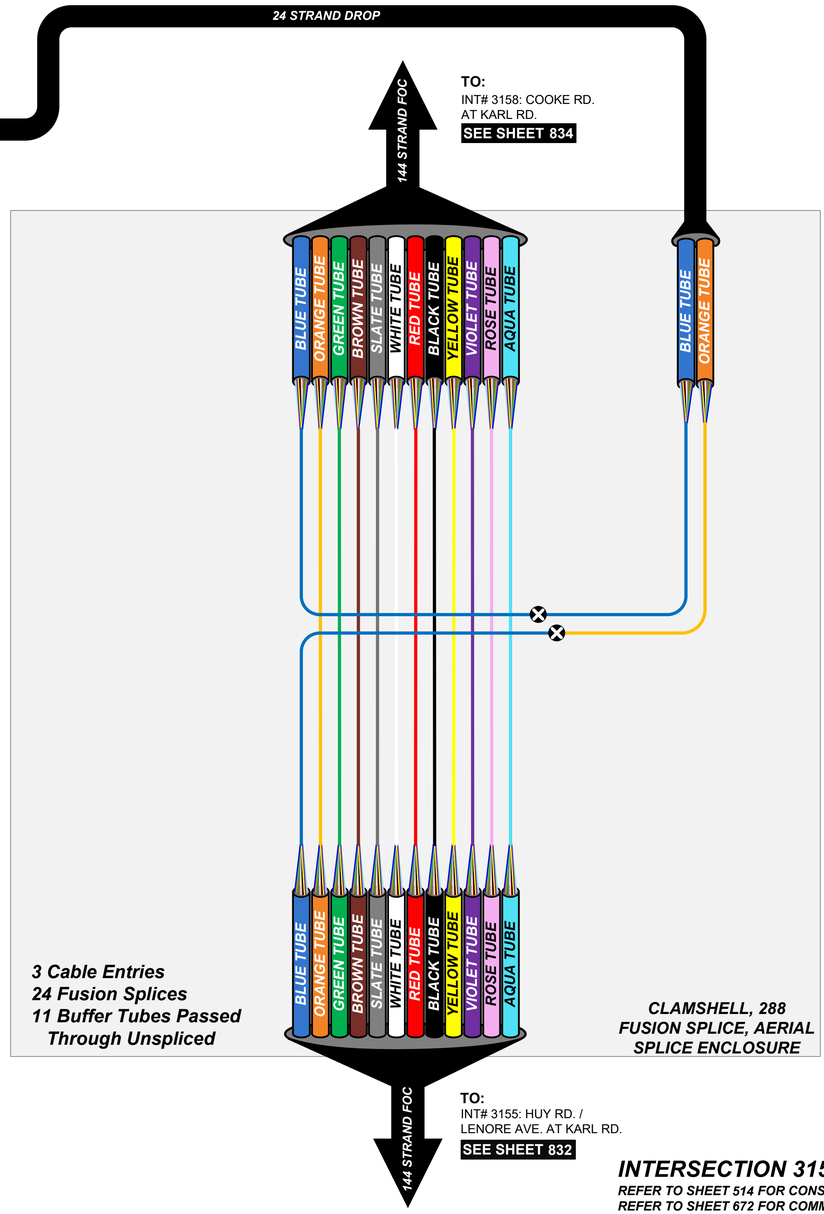
PORT 6: INT# 3151: KARL RD. AT OAKLAND PARK AVE.
SEE SHEET 831







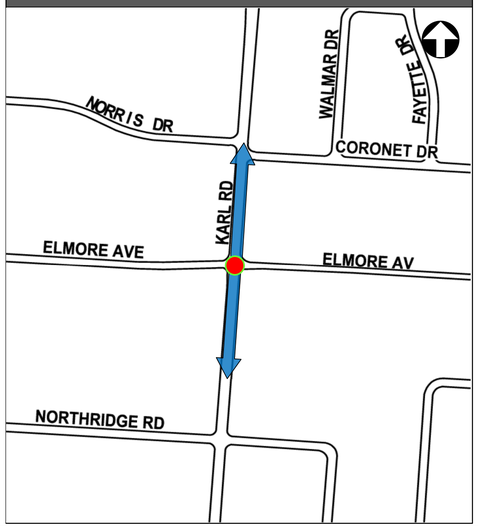
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3157

REFER TO SHEET 514 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3157: ELMORE AVE. AT KARL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

833
1000

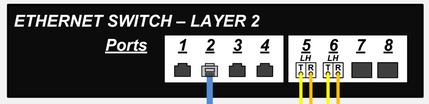
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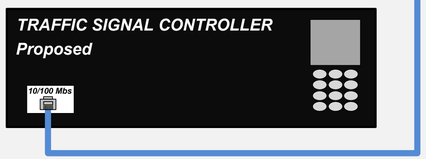
TRAFFIC SIGNAL CABINET ASSEMBLY

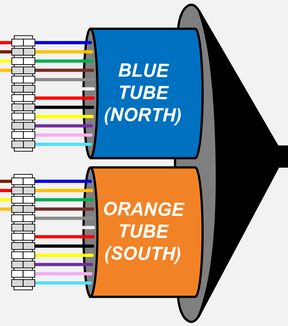
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# N002: EVALINE DR. AT KARL RD.
SEE SHEET 837

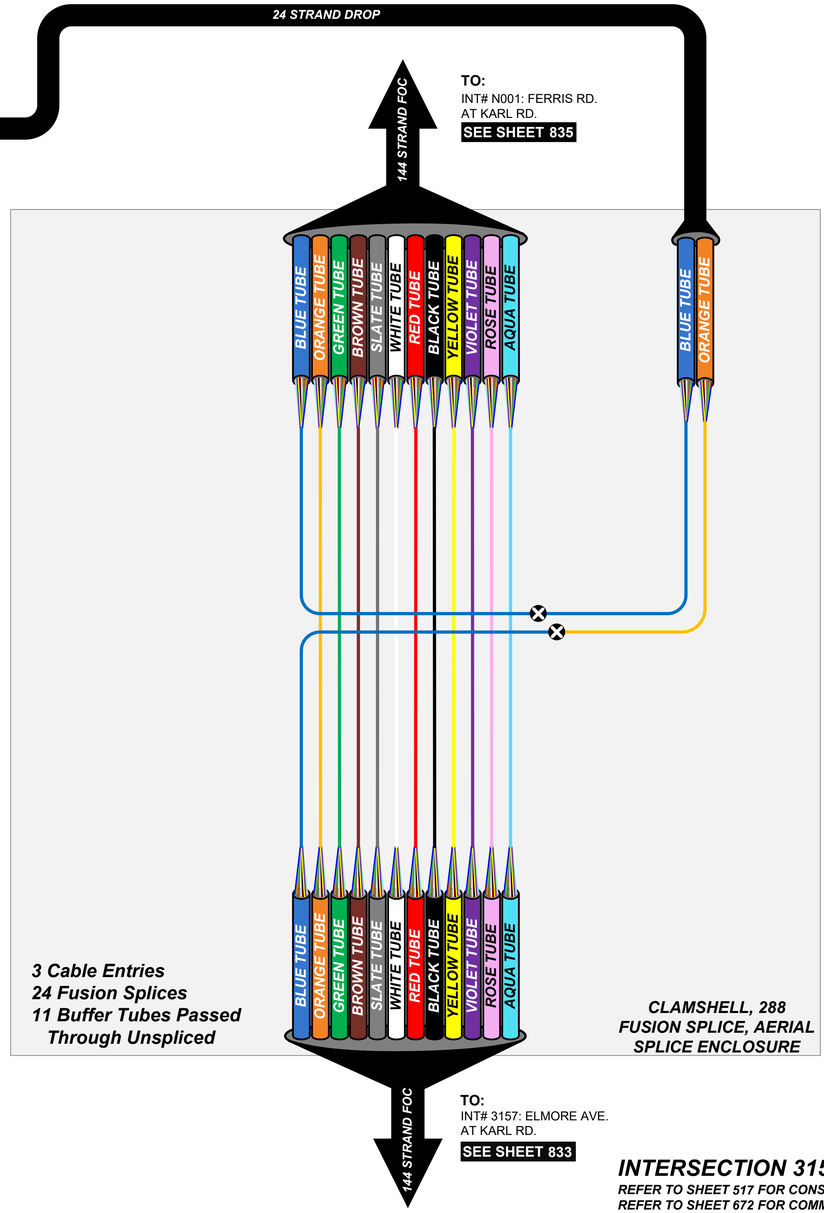
PORT 6: INT# 3155: HUY RD. / LENORE AVE. AT KARL RD.
SEE SHEET 832







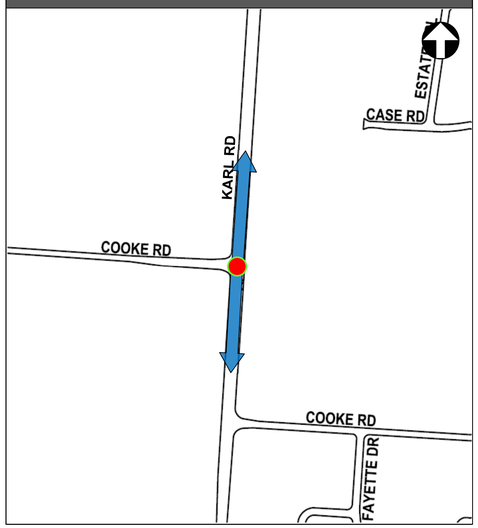
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3158

REFER TO SHEET 517 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

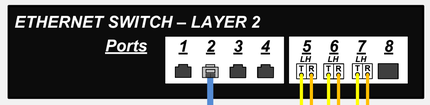
INT# 3158: COOKE RD. AT KARL RD.
COMMUNICATIONS DIAGRAM

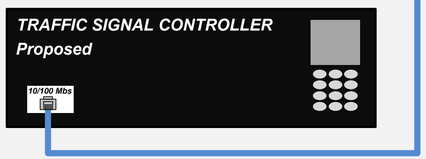
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

834
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY



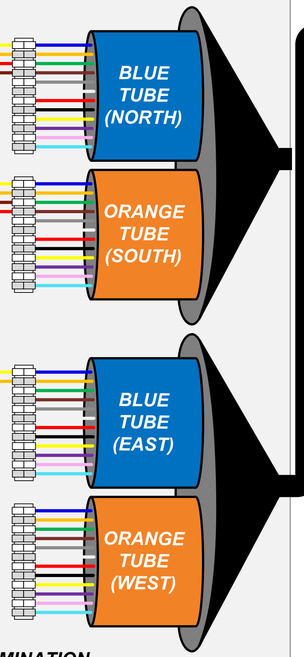


ETHERNET SWITCH PORT DESTINATION

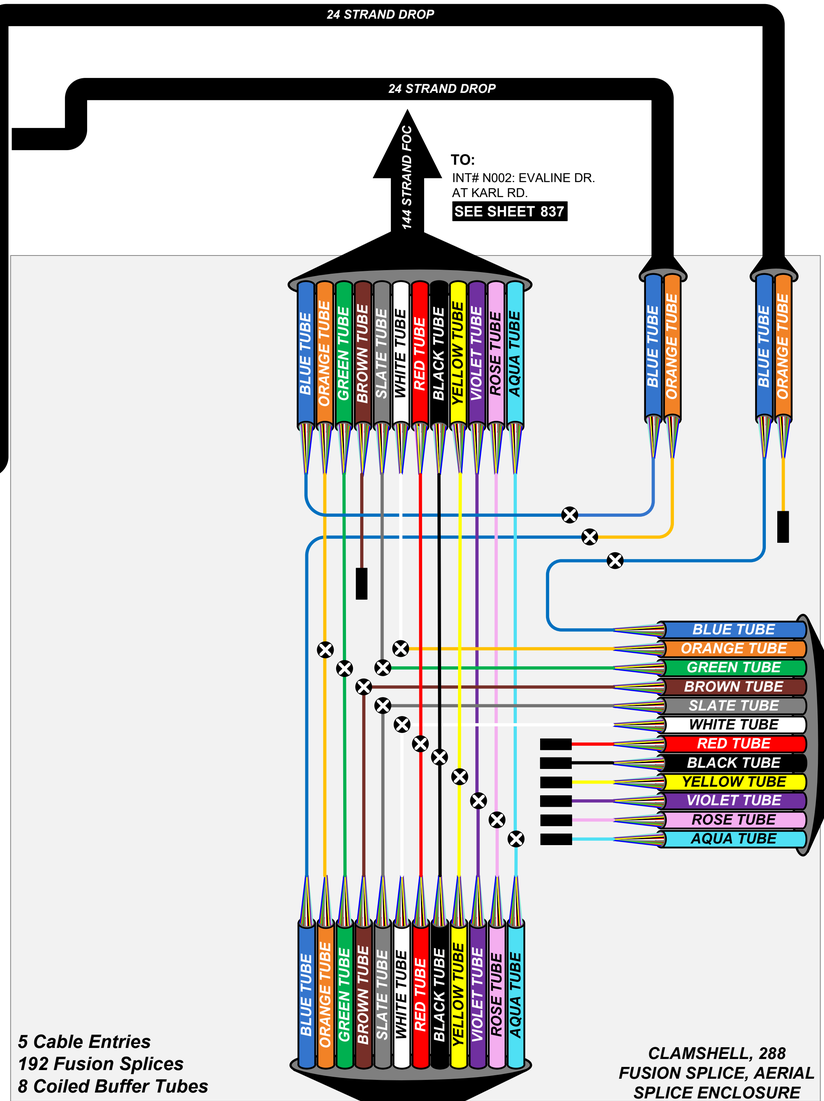
PORT 5: INT# N003: KARL RD. AT SHANLEY DR.
SEE SHEET 838

PORT 6: INT# 3157: ELMORE AVE. AT KARL RD.
SEE SHEET 833

PORT 7: INT# SIG4115: FERRIS RD. AT WALFORD ST.
SEE SHEET 836



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



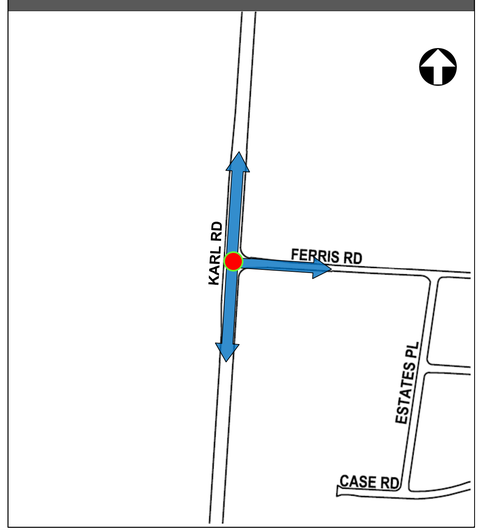
5 Cable Entries
192 Fusion Splices
8 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION N001

REFER TO SHEET 518 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# N001: FERRIS RD. AT KARL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

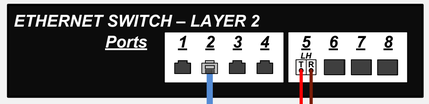
835
1000

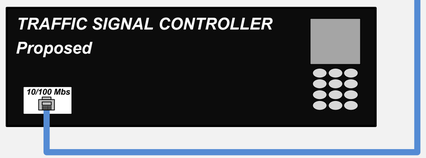
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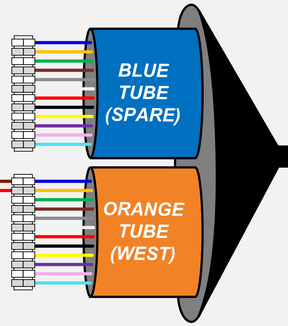
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# N001: FERRIS RD. AT KARL RD.
SEE SHEET 835





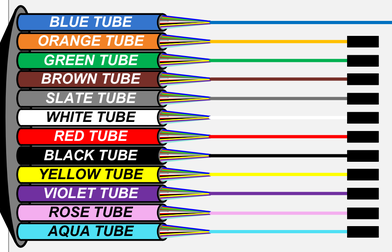


24 STRAND DROP



PATCH PANEL ENCLOSURE – 24 TERMINATION

144 STRAND FOC



TO:
INT# N001: FERRIS RD. AT KARL RD.
SEE SHEET 835

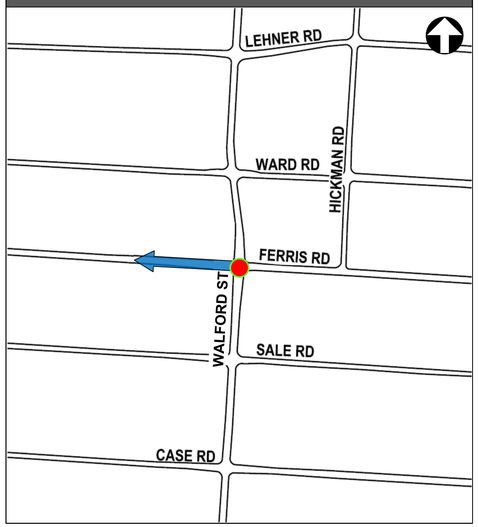
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4115
REFER TO SHEET 524 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# SIG4115: FERRIS RD. AT WALFORD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

836
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# N003: KARL RD. AT SHANLEY DR.
SEE SHEET 838

PORT 6: INT# 3158: COOKE RD. AT KARL RD.
SEE SHEET 834

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

COMPOSITE CCTV CABLE

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

PATCH PANEL ENCLOSURE – 24 TERMINATION

PROPOSED CCTV

24 STRAND DROP

144 STRAND FOC

TO:
INT# N003: KARL RD.
AT SHANLEY DR.
SEE SHEET 838

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***

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

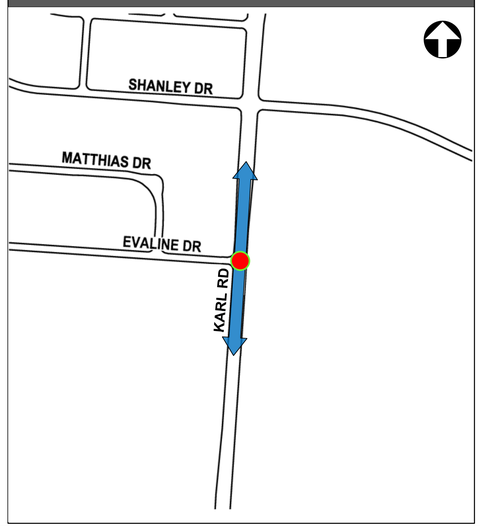
144 STRAND FOC

TO:
INT# N001: FERRIS RD.
AT KARL RD.
SEE SHEET 835

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION N002

REFER TO SHEET 519 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

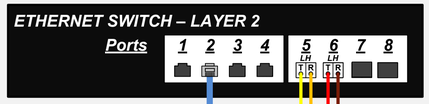
INT# N002: EVALINE DR. AT KARL RD.
COMMUNICATIONS DIAGRAM

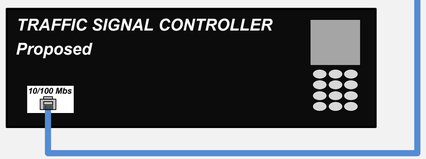
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

837
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

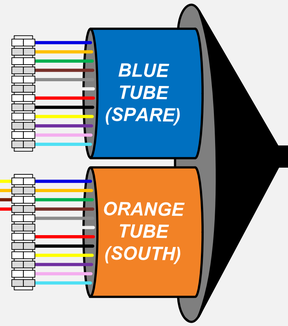




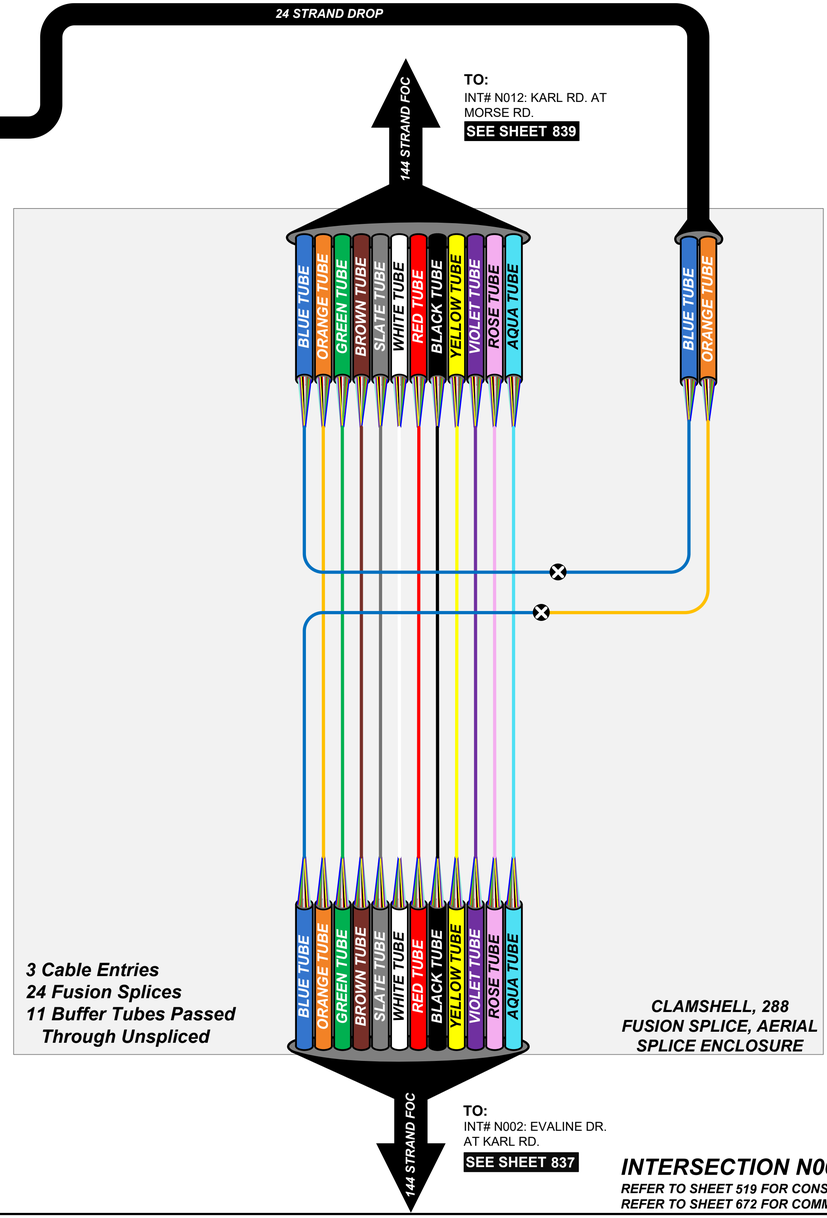
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# N001: FERRIS RD. AT KARL RD.
SEE SHEET 835

PORT 6: INT# N002: EVALINE DR. AT KARL RD.
SEE SHEET 837



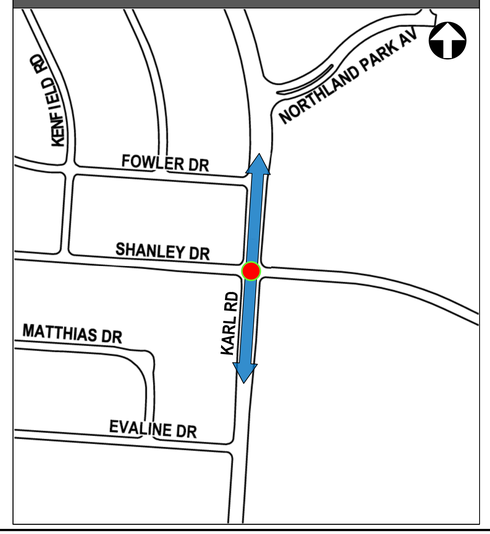
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION N003

REFER TO SHEET 519 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# N003: KARL RD. AT SHANLEY DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

838
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 6 7 8: LH, T R)

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# N014: MORSE RD. AT TAMARACK BLVD.

PORT 6: EXISTING CONNECTION TO INT# N010: MAIZE RD. AT MORSE RD.

BLUE TUBE (NORTH)

ORANGE TUBE (EAST)

BLUE TUBE (WEST)

ORANGE TUBE (SOUTH)

EXISTING 24 STRAND DROP

EXISTING 24 STRAND DROP

EXISTING PATCH PANEL ENCLOSURE: (2) - 24 TERMINATION

MATCHLINE 'A' - SEE SHEET 840
TO AERIAL SPLICE ENCLOSURE

EXISTING CCTV CABINET #1 KARL RD AT MORSE RD (SW)

CCTV FIELD BOX

8P8C MALE/FEMALE CONNECTION

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

ANALOG/IP COMPOSITE CCTV CABLE

EXISTING CCTV

EXISTING CCTV CABINET #2 KARL RD AT MORSE RD (SE)

EXISTING 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

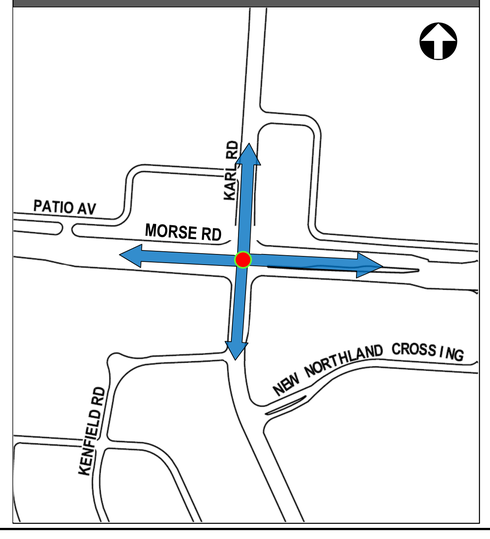
ANALOG/IP COMPOSITE CCTV CABLE

EXISTING CCTV

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION N012
REFER TO SHEET 521 FOR CONSTRUCTION PLAN DETAILS

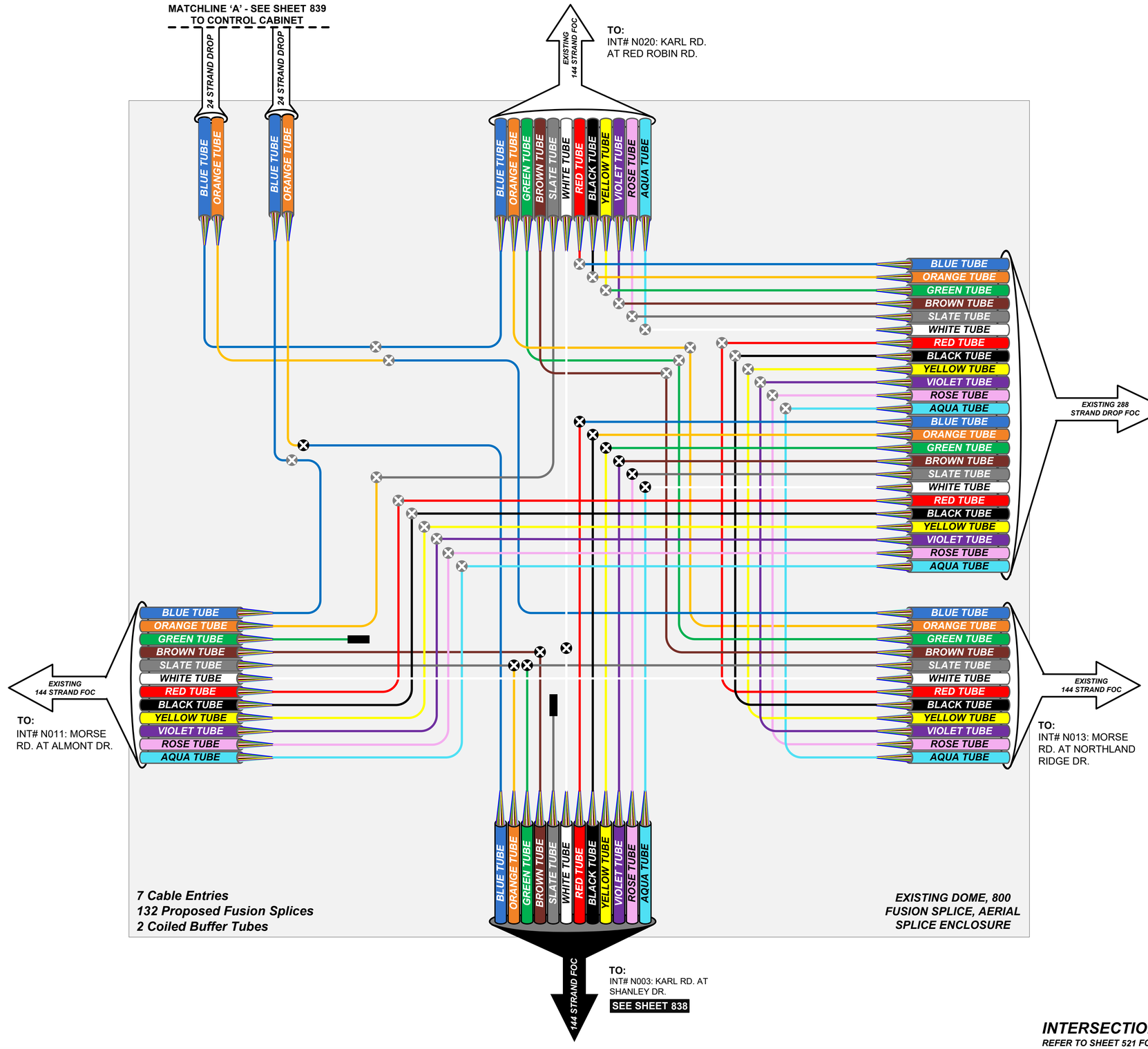
CIP: 540007 - 100006
PID NUMBER: 82573

INT# N012: KARL RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

839
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NOTES:

REMOVE EXISTING FUSION SPLICES AND RESPLICE BUFFER TUBES AS SHOWN IN THE DIAGRAM ABOVE.

INTERSECTION N012

REFER TO SHEET 521 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

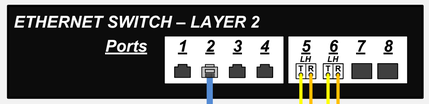
INT# N012: KARL RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

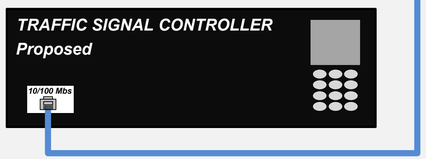
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

840
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TRAFFIC SIGNAL CABINET ASSEMBLY





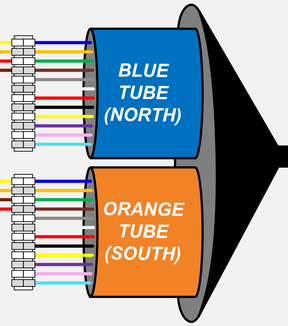
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.

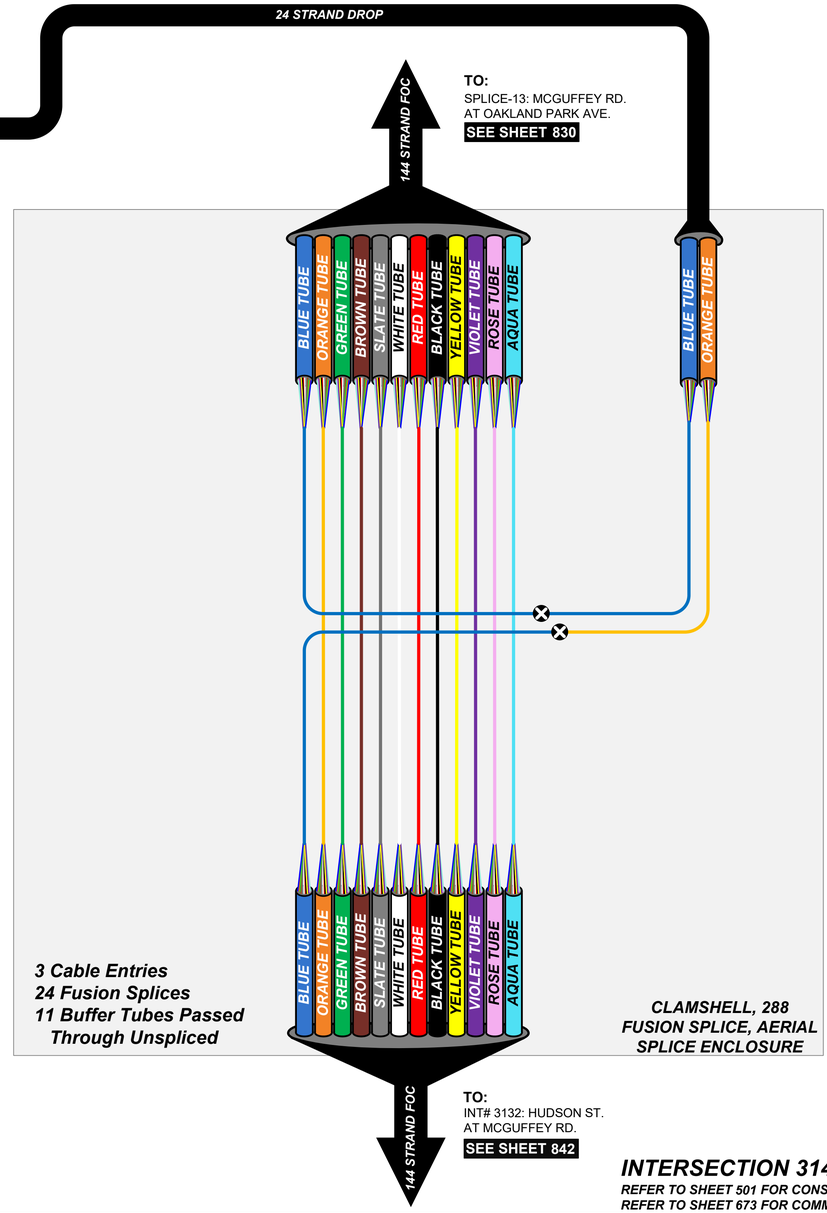
SEE SHEET 996

PORT 6: INT# 3133: HAMILTON AVE. AT HUDSON ST.

SEE SHEET 843



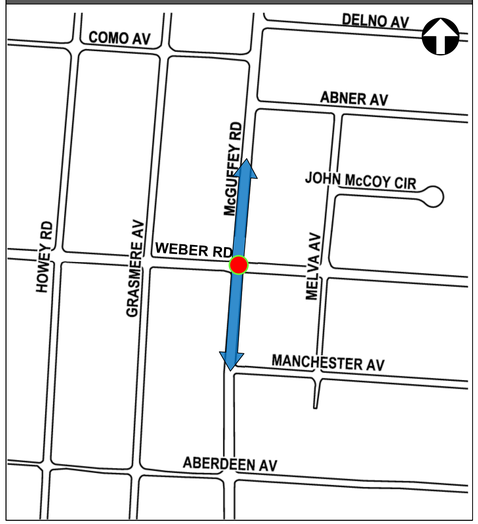
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

INTERSECTION 3142

REFER TO SHEET 501 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

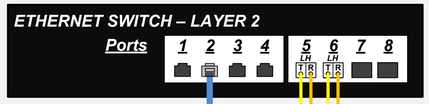
INT# 3142: MCGUFFEY RD. AT WEBER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

841
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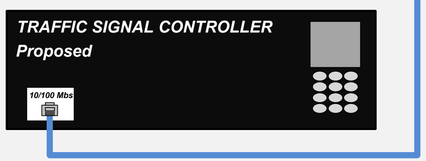
TRAFFIC SIGNAL CABINET ASSEMBLY

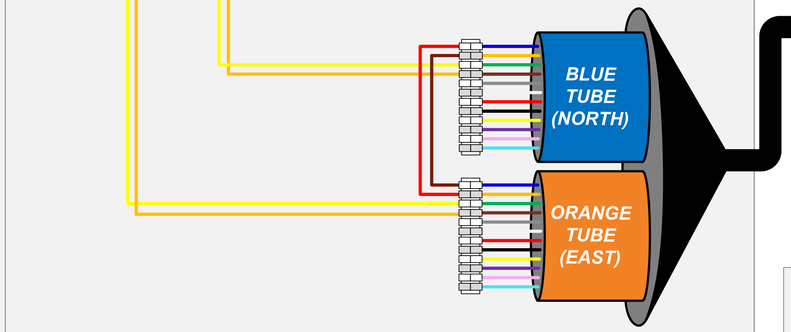


ETHERNET SWITCH PORT DESTINATION

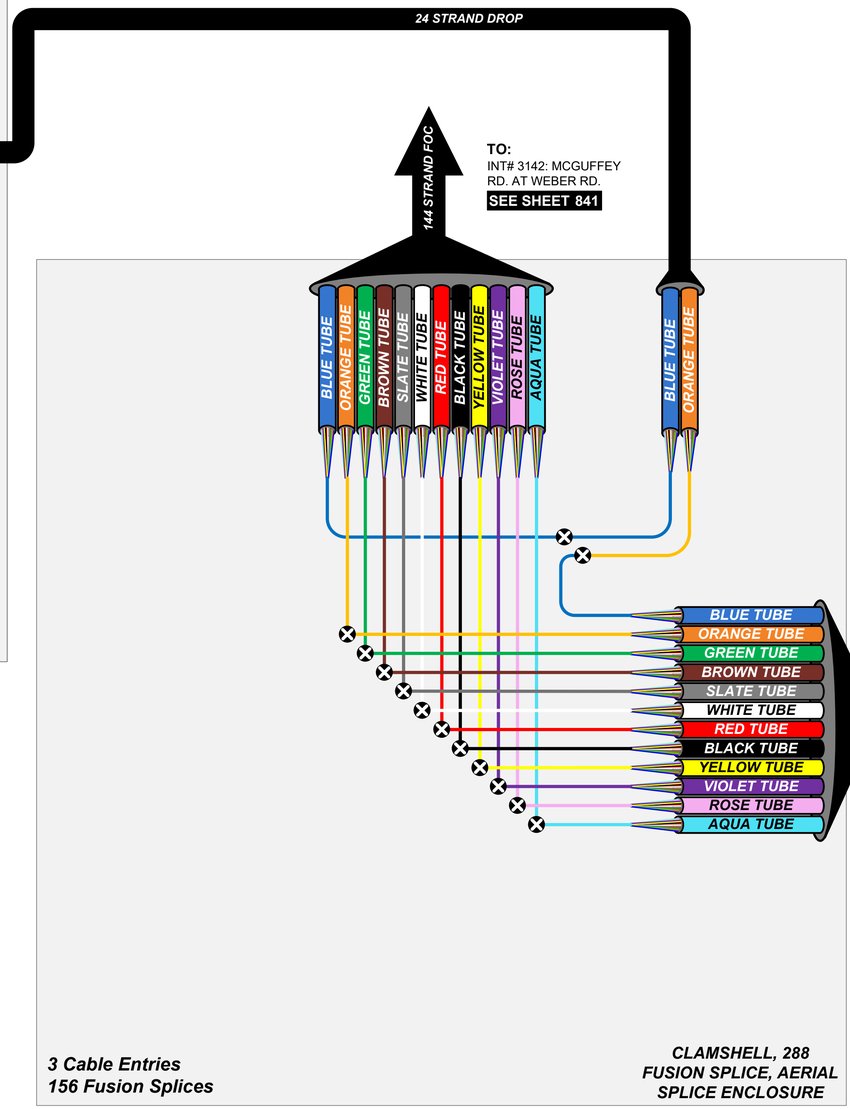
PORT 5: EXISTING COMMUNICATION NODE# 071113.4:
IR-71 AT E NORTH BROADWAY.
SEE SHEET 996

PORT 6: INT# 3136: HUDSON ST. AT PARKWOOD AVE.
SEE SHEET 847





PATCH PANEL ENCLOSURE - 24 TERMINATION



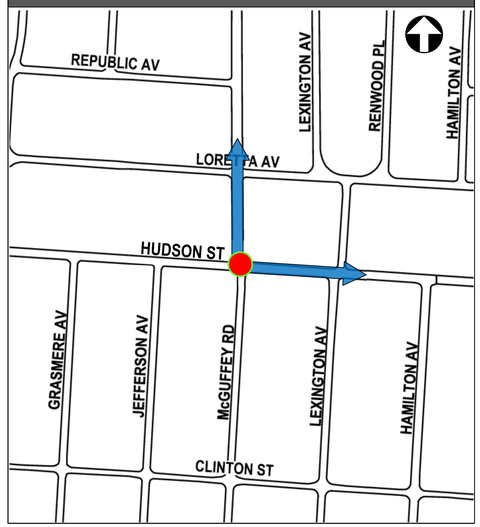
3 Cable Entries
156 Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3132

REFER TO SHEET 487 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

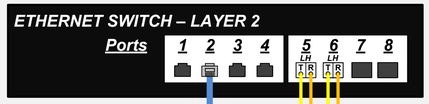
INT# 3132: HUDSON ST. AT MCGUFFEY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

842
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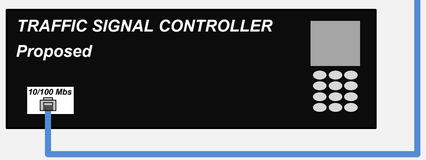
TRAFFIC SIGNAL CABINET ASSEMBLY

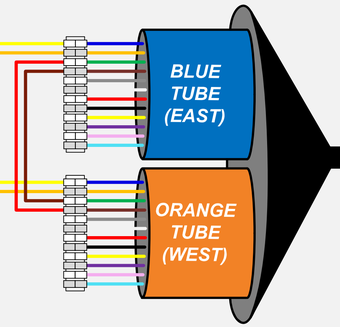


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3135: HUDSON ST. AT JOYCE AVE.
SEE SHEET 845

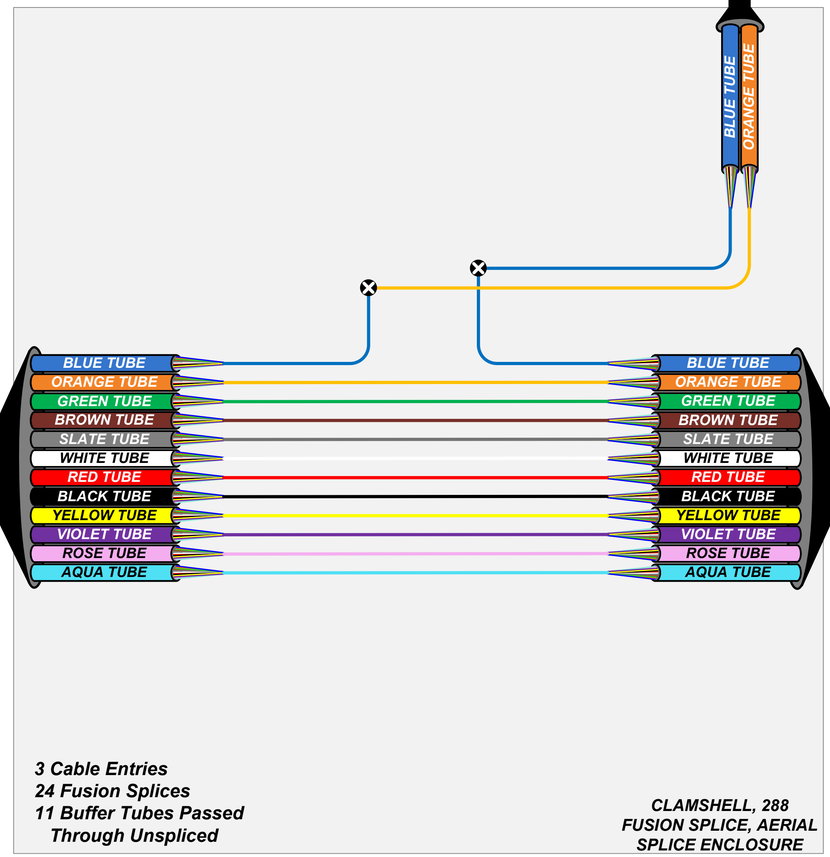
PORT 6: INT# 3142: MCGUFFEY RD. AT WEBER RD.
SEE SHEET 841





PATCH PANEL ENCLOSURE – 24 TERMINATION





TO:
INT# 3132: HUDSON ST. AT MCGUFFEY RD.
SEE SHEET 842

TO:
INT# 3020: CLEVELAND AVE. AT HUDSON ST.
SEE SHEET 844

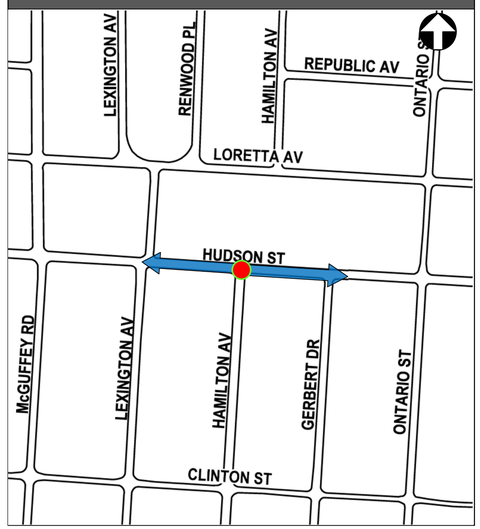
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3133
REFER TO SHEET 488 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3133: HAMILTON AVE. AT HUDSON ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

843
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

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

PATCH PANEL ENCLOSURE: (2) - 24 TERMINATION

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3022: CLEVELAND AVE. AT GENESEE AVE.

PORT 6: EXISTING CONNECTION TO INT# 3018: CLEVELAND AVE. AT TWENTY-FOURTH AVE.

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (WEST)

COMPOSITE CCTV CABLE

24 STRAND DROP

PROPOSED CCTV

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 3021: CLEVELAND AVE. AND MRYTLE AVE.

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 — 12 STRAND DROP
BLUE TUBE — 12 STRAND DROP
TO: EXISTING COTA CABINETS

TO:
INT# 3019: DUXBERRY AVE. AT CLEVELAND AVE.

EXISTING 144 STRAND FOC

TO:
INT# 3133: HAMILTON AVE. AT HUDSON ST.
SEE SHEET 843

144 STRAND FOC

144 STRAND FOC

TO:
INT# 3135: HUDSON ST. AT JOYCE AVE.
SEE SHEET 845

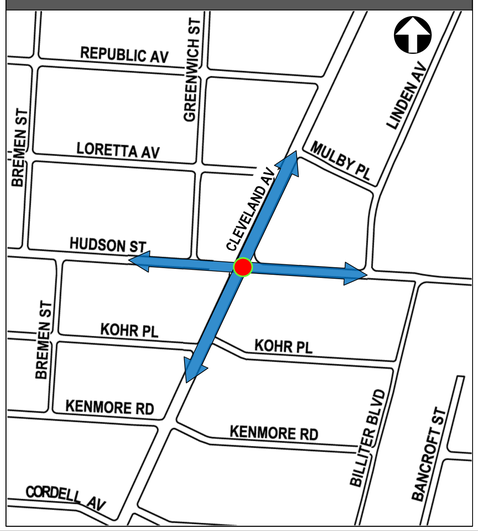
8 Cable Entries
168 Proposed Fusion Splices
216 Total Fusion Splices
9 Buffer Tubes Passed Through Unspliced

EXISTING DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

EXISTING WORK SHOWN ON THIS SHEET IS TO BE PERFORMED BY OTHERS. REFER TO COTA BRT PROJECT 3163-E

FINAL DoT SPLICING CONFIGURATION TO BE DETERMINED ON INPUT FROM COLUMBUS DoT.

INTERSECTION 3020

REFER TO SHEET 490 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3020: CLEVELAND AVE. AT HUDSON ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3133: HAMILTON AVE. AT HUDSON ST.
SEE SHEET 843

PORT 6: TMC COMMUNICATIONS: E TWENTY-FIFTH AVE
SEE SHEET 993

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 | 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3

Ethernet Module
10/100 Mbs

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (SPARE)
ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 3020: CLEVELAND AVE. AT HUDSON ST.
SEE SHEET 844

144 STRAND FOC

TO:
INT# 3136: HUDSON ST. AT PARKWOOD AVE.
SEE SHEET 847

144 STRAND FOC

TO:
INT# 3145: JOYCE AVE. AT MAYNARD AVE.
SEE SHEET 846

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

5 Cable Entries
204 Fusion Splices
6 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3135

REFER TO SHEET 492 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3135: HUDSON ST. AT JOYCE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

845
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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: TMC COMMUNICATIONS: E TWENTY-FIFTH AVE
SEE SHEET 993

PORT 6: INT# 3136: HUDSON ST. AT PARKWOOD AVE.
SEE SHEET 847

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING 24 STRAND DROP

144 STRAND FOC

TO:
INT# 3135: HUDSON ST. AT JOYCE AVE.
SEE SHEET 845

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

3 Cable Entries
144 Proposed Fusion Splices
156 Total Fusion Splices

EXISTING CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

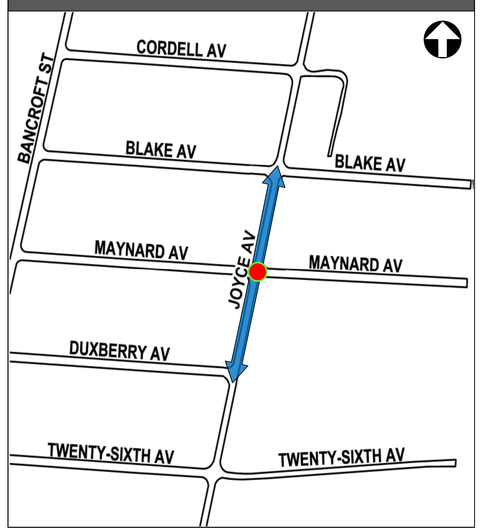
EXISTING 144 STRAND FOC

TO:
TMC COMMUNICATIONS:
E TWENTY-FIFTH AVE
SEE SHEET 993

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3145

REFER TO SHEET 496 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

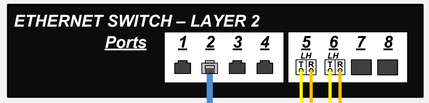
CIP: 540007 - 100006
PID NUMBER: 82573

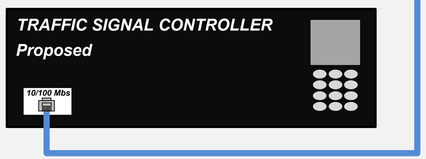
INT# 3145: JOYCE AVE. AT MAYNARD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

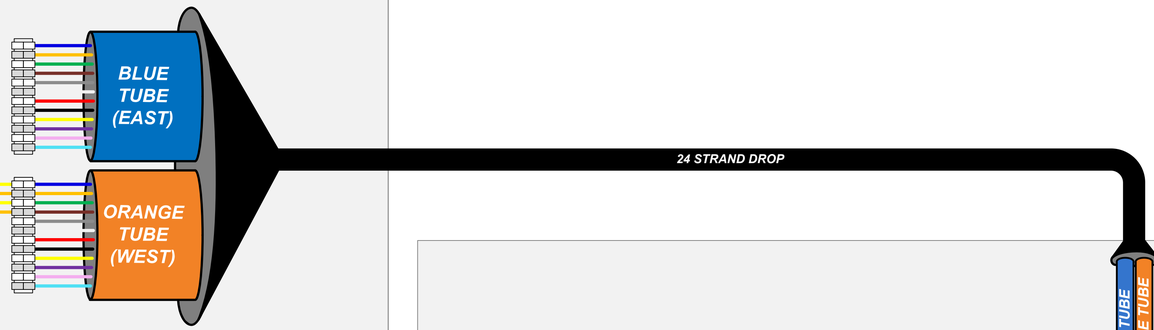




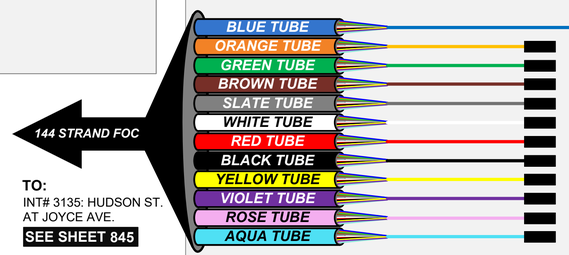
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3145: JOYCE AVE. AT MAYNARD AVE.
SEE SHEET 846

PORT 6: INT# 3132: HUDSON ST. AT MCGUFFEY RD.
SEE SHEET 842



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3135: HUDSON ST.
AT JOYCE AVE.
SEE SHEET 845

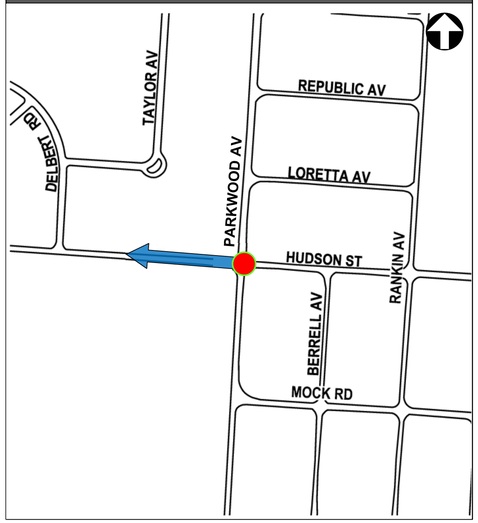
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3136

REFER TO SHEET 493 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3136: HUDSON ST. AT PARKWOOD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

847
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3068: WEBER RD. AT WESTERVILLE RD.
SEE SHEET 849

PORT 6: EXISTING CONNECTION TO INT# 3022: CLEVELAND AVE. AT GENESEE AVE.

BLUE TUBE (EAST)

ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURE - 24 TERMINATION

EXISTING 24 STRAND DROP

TO:
INT# 3154: CLEVELAND AVE. AND OAKLAND PARK AVE.

EXISTING 144 STRAND FOC

TO:
INT# 3068: WEBER RD. AT WESTERVILLE RD.
SEE SHEET 849

EXISTING 24 STRAND DROP

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

BLUE TUBE

BLUE TUBE

12 STRAND DROP

12 STRAND DROP

TO: COTA CABINETS

6 Cable Entries
48 Fusion Splices
2 Coiled Buffer Tubes
10 Buffer Tubes Passed Through Unspliced

EXISTING SPLICE ENCLOSURE

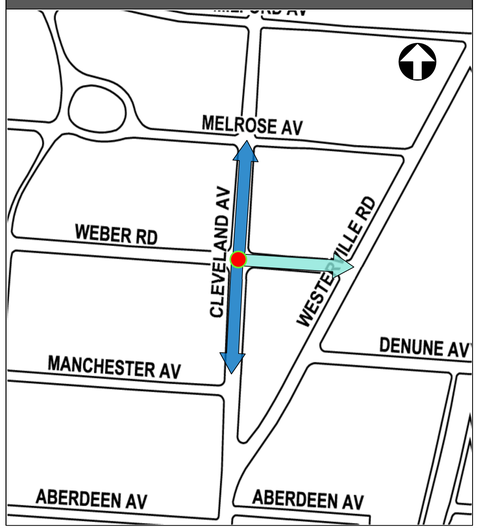
TO:
INT# 3023: ABERDEEN AVE. AND CLEVELAND AVE.

EXISTING 144 STRAND FOC

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

EXISTING WORK SHOWN ON THIS SHEET IS TO BE PERFORMED BY OTHERS. REFER TO COTA BRT PROJECT 3163-E

INTERSECTION 3024

REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3024:CLEVELAND AVE. AT WEBER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

848
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

NEW ETHERNET SWITCH PORT DESTINATION

PORT 5: **INT# 3128: AGLER RD. AT CLUBHOUSE DR./ KIPP SCHOOL**
(Revised) SEE SHEET 851

PORT 6: INT# 3024:CLEVELAND AVE. AT WEBER RD.
SEE SHEET 848

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

3

BLUE TUBE (NORTH)

ORANGE TUBE (SPARE)

BLUE TUBE (SPARE)

ORANGE TUBE (WEST)

3

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

24 STRAND DROP

EXISTING 24 STRAND DROP

TO:
INT# 3024:CLEVELAND AVE. AT WEBER RD.
SEE SHEET 848

144 STRAND FOC

TO:
INT# SIG4005: AGLER RD. AT PERDUE AVE.
SEE SHEET 850

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***

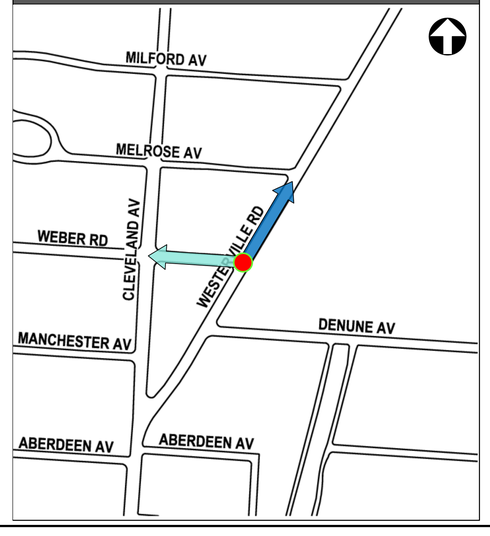
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

EXISTING WORK SHOWN ON THIS SHEET IS TO BE PERFORMED BY OTHERS. REFER TO COTA BRT PROJECT 3163-E

LAYER 2 ETHERNET SWITCH PORT #5 DESTINATION CHANGED FROM INTERSECTION AT CLEVELAND AVE. AND ABERDEEN AVE. TO INT# 3128: AGLER RD. AT CLUBHOUSE DR./KIPP SCHOOL.

[3] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

INTERSECTION 3068
REFER TO SHEET 458 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3068: WEBER RD. AT WESTERVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

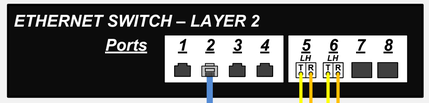
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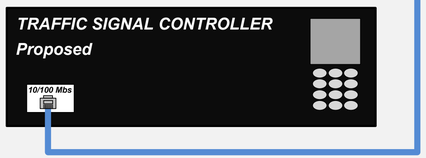
TRAFFIC SIGNAL CABINET ASSEMBLY

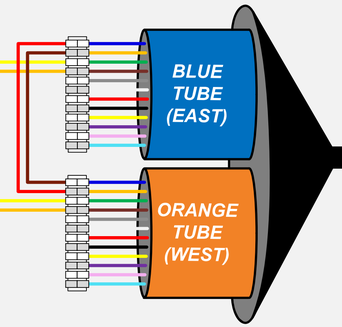
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3138: AGLER RD. AT SUNBURY RD.
SEE SHEET 852

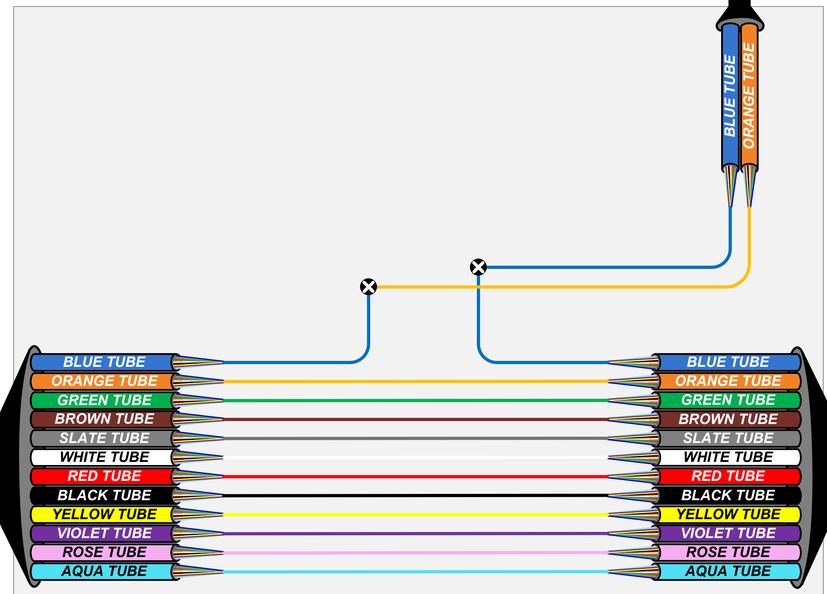
PORT 6: INT# 3023: ABERDEEN AVE. AND CLEVELAND AVE.







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3068: WEBER RD. AT WESTERVILLE RD.
SEE SHEET 849

TO:
INT# 3128: AGLER RD. AT CLUBHOUSE DR./ KIPP SCHOOL
SEE SHEET 851

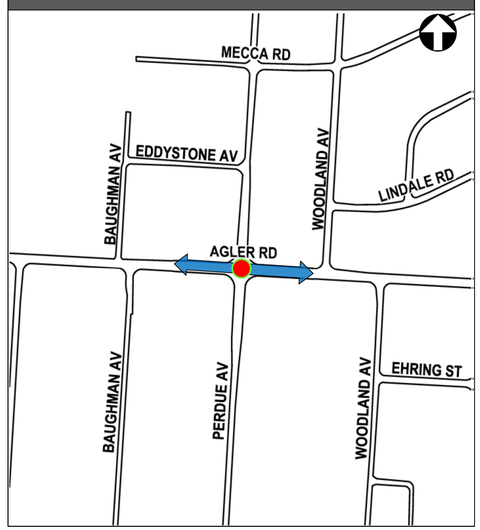
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4005

REFER TO SHEET 463 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# SIG4005: AGLER RD. AT PERDUE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

850
1000

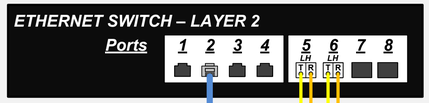
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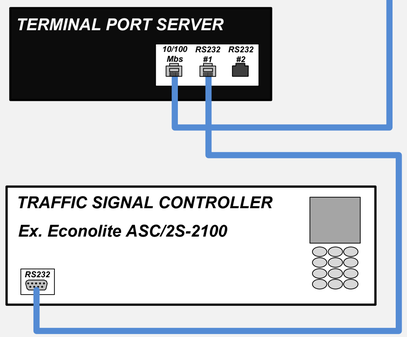
TRAFFIC SIGNAL CABINET ASSEMBLY

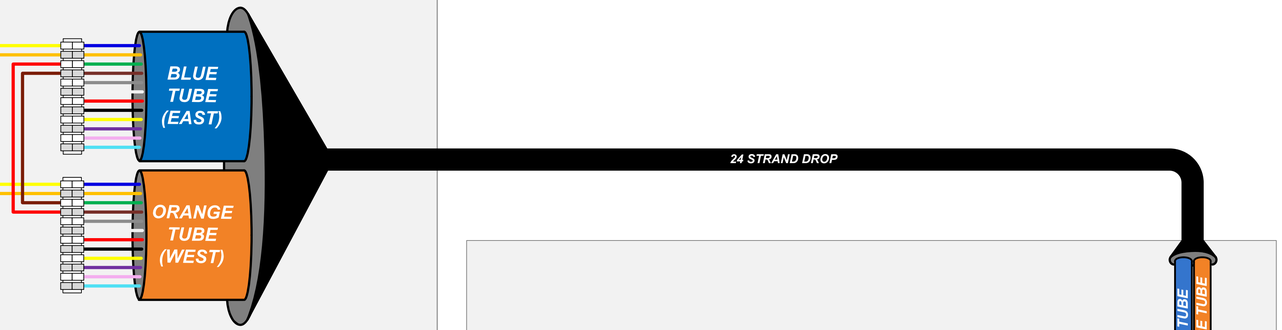
ETHERNET SWITCH PORT DESTINATION

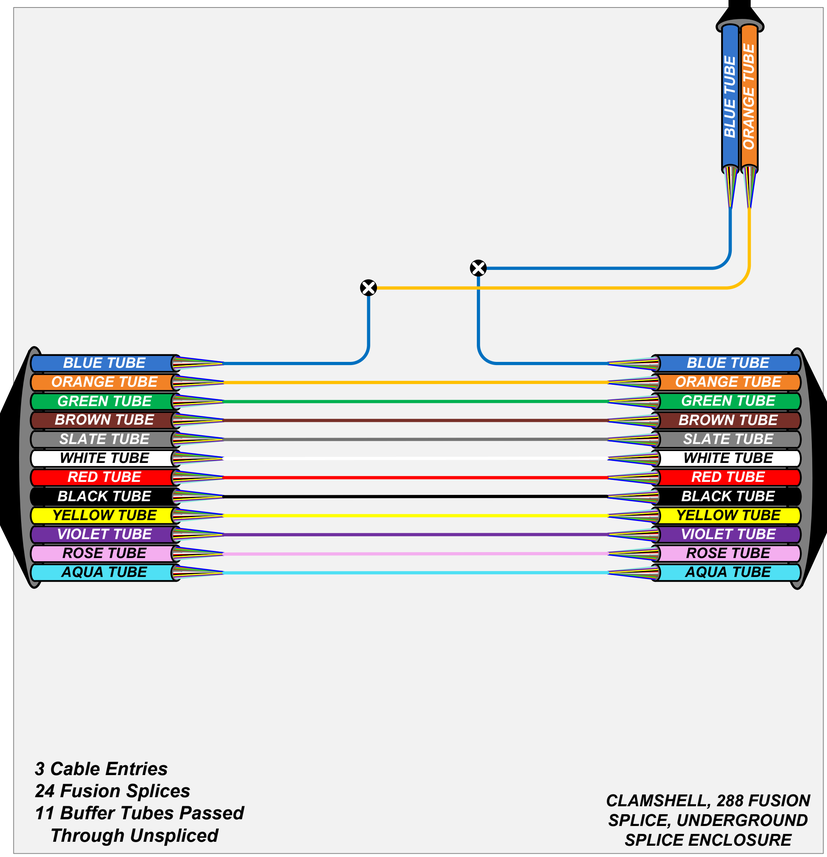
PORT 5: INT# 3138: AGLER RD. AT SUNBURY RD.
SEE SHEET 852

PORT 6: INT# 3068: WEBER RD. AT WESTERVILLE RD.
SEE SHEET 849









TO:
INT# SIG4005: AGLER RD. AT PERDUE AVE.
SEE SHEET 850

TO:
INT# 3138: AGLER RD. AT SUNBURY RD.
SEE SHEET 852

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

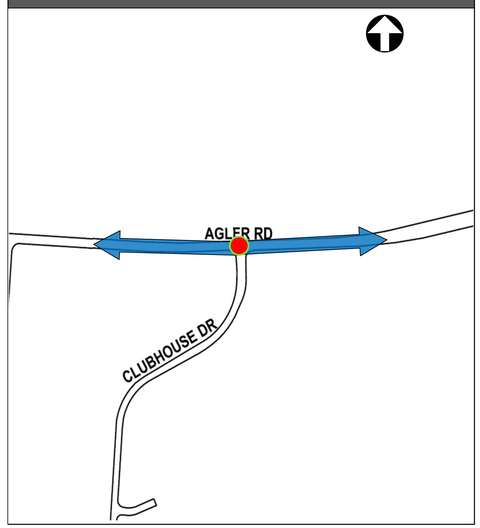
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3128

REFER TO SHEET 465 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

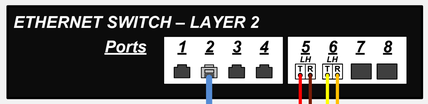
INT# 3128: AGLER RD. AT CLUBHOUSE DR./ KIPP SCHOOL
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

851
1000

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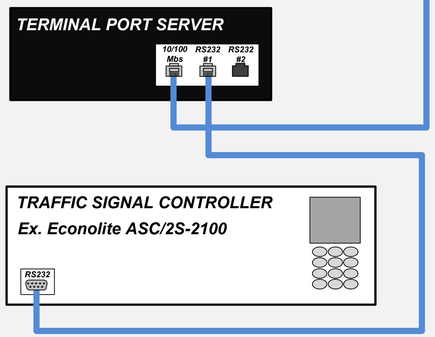
TRAFFIC SIGNAL CABINET ASSEMBLY

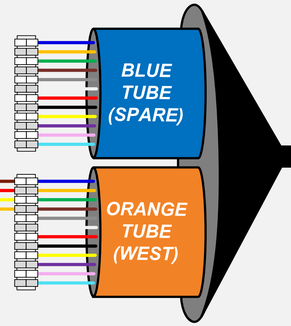


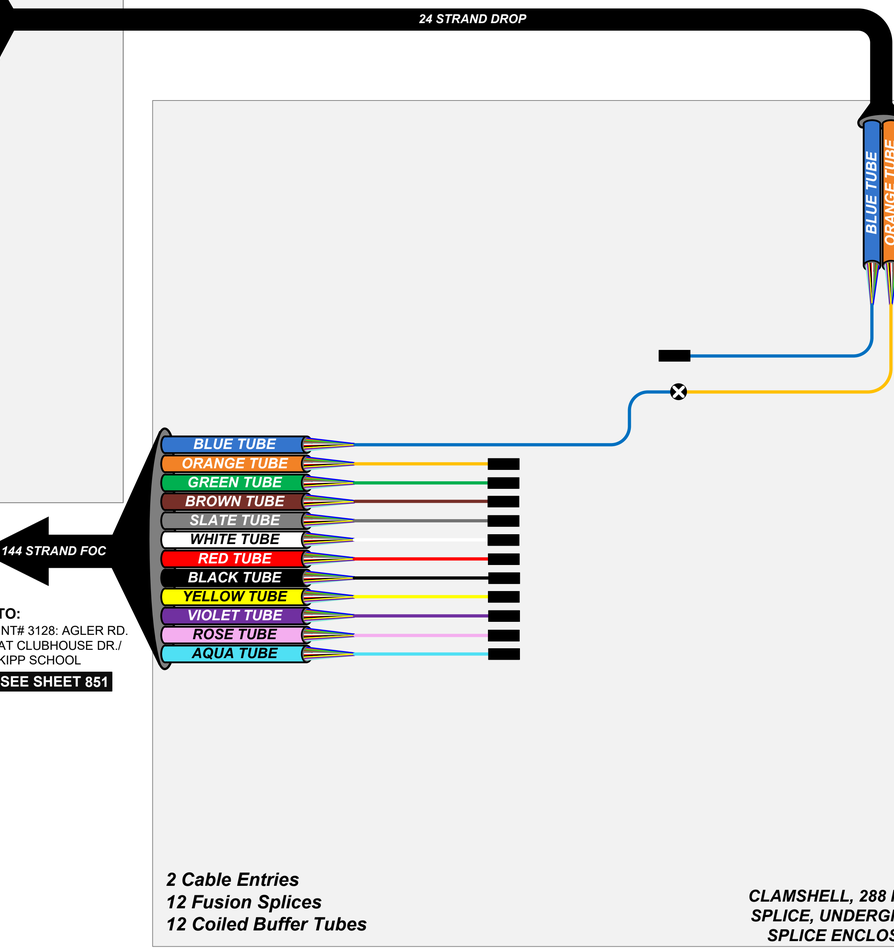
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3128: AGLER RD. AT CLUBHOUSE DR./ KIPP SCHOOL
SEE SHEET 851

PORT 6: INT# SIG4005: AGLER RD. AT PERDUE AVE.
SEE SHEET 850







TO:
INT# 3128: AGLER RD. AT CLUBHOUSE DR./ KIPP SCHOOL
SEE SHEET 851

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

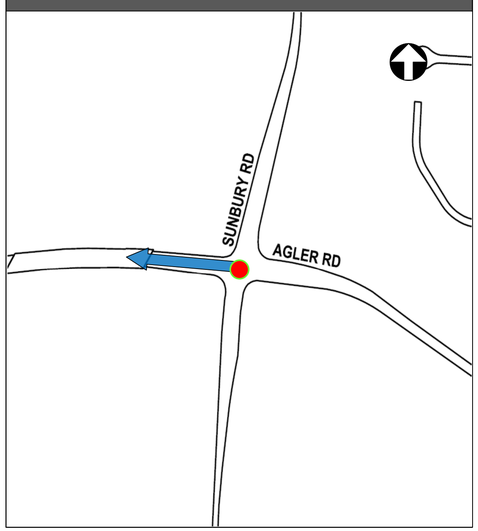
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3138
REFER TO SHEET 466 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 673 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3138: AGLER RD. AT SUNBURY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

852
1000

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CIP: 540007 - 100006
PID NUMBER: 82573

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – FINAL SUBMITTAL

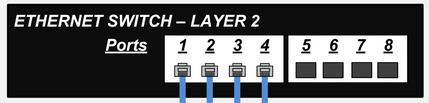
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 1: PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
SEE SHEET 964



TO:
PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
SEE SHEET 966

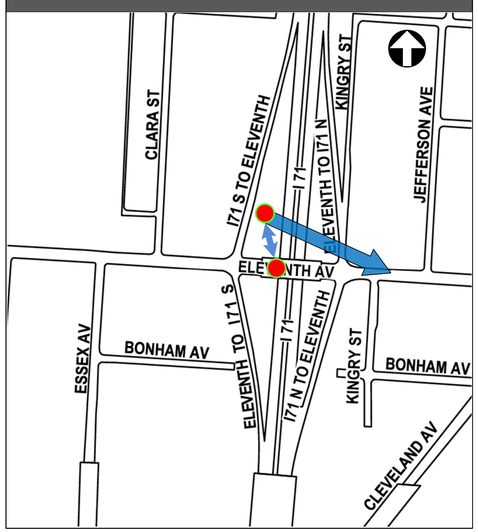




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3031
REFER TO SHEET 455 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3031: ELEVENTH AVE. AT I-71 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

854
1000

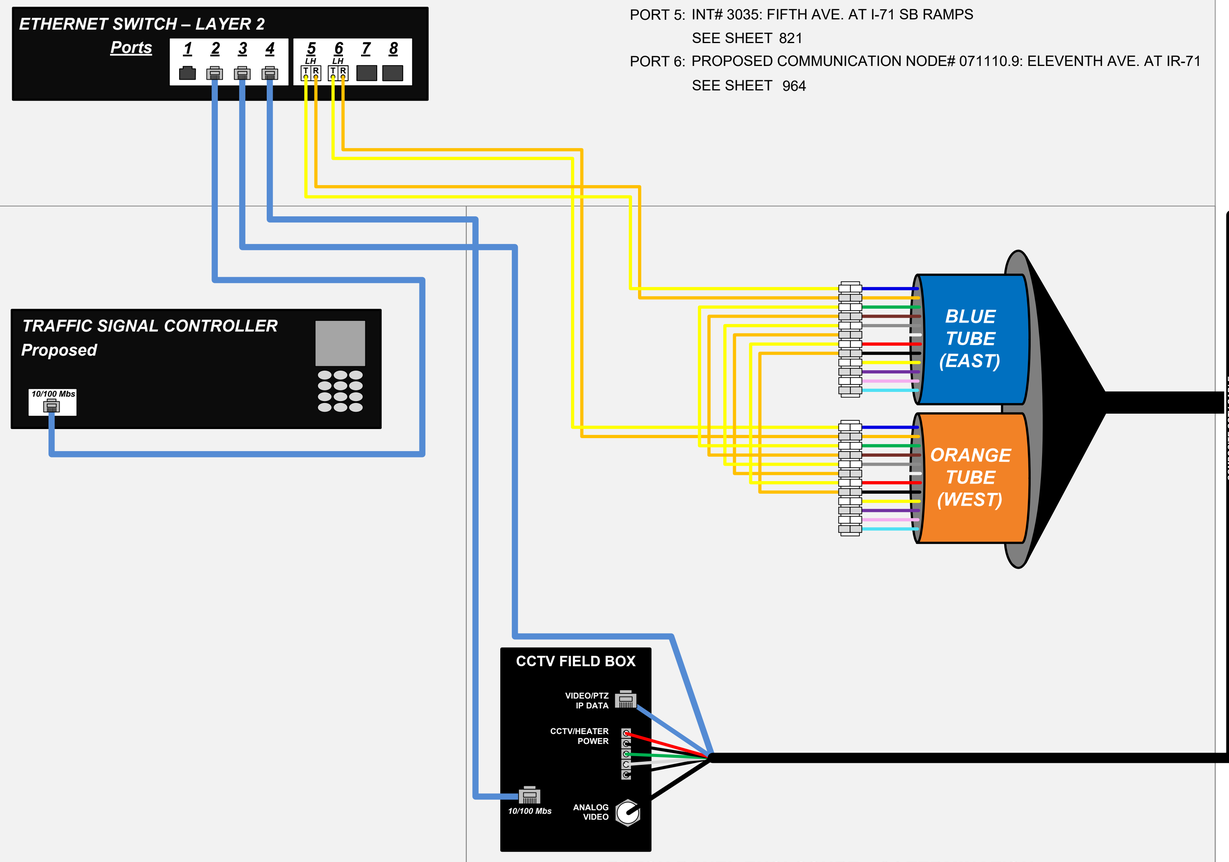
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3035: FIFTH AVE. AT I-71 SB RAMPS
SEE SHEET 821

PORT 6: PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
SEE SHEET 964



PATCH PANEL ENCLOSURE – 24 TERMINATION

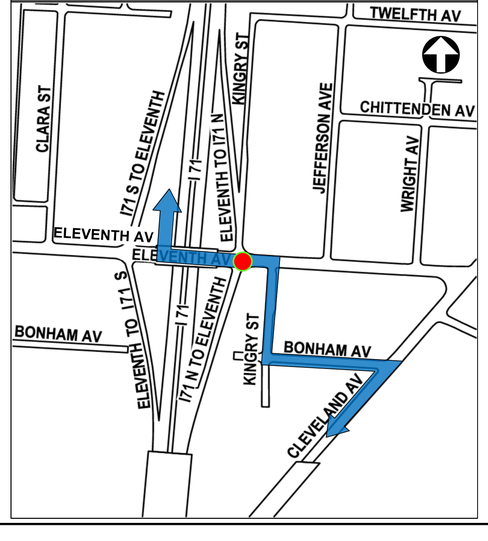
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3030

REFER TO SHEET 455 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3030: ELEVENTH AVE. AT I-71 NB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

855
1000

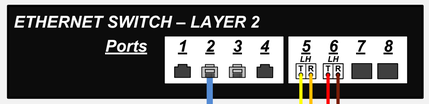
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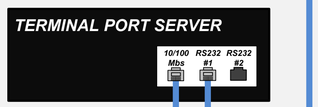
TRAFFIC SIGNAL CABINET ASSEMBLY

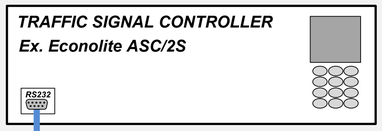
ETHERNET SWITCH PORT DESTINATION

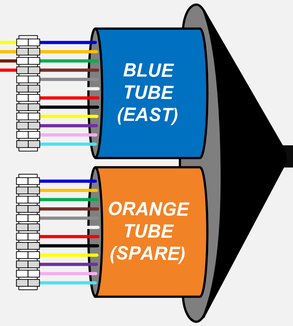
PORT 5: INT# 3127: SEVENTEENTH AVE. AT WOODLAND AVE.
SEE SHEET 860

PORT 6: INT# 3062: HAMILTON AVE. AT SEVENTEENTH AVE.
SEE SHEET 857



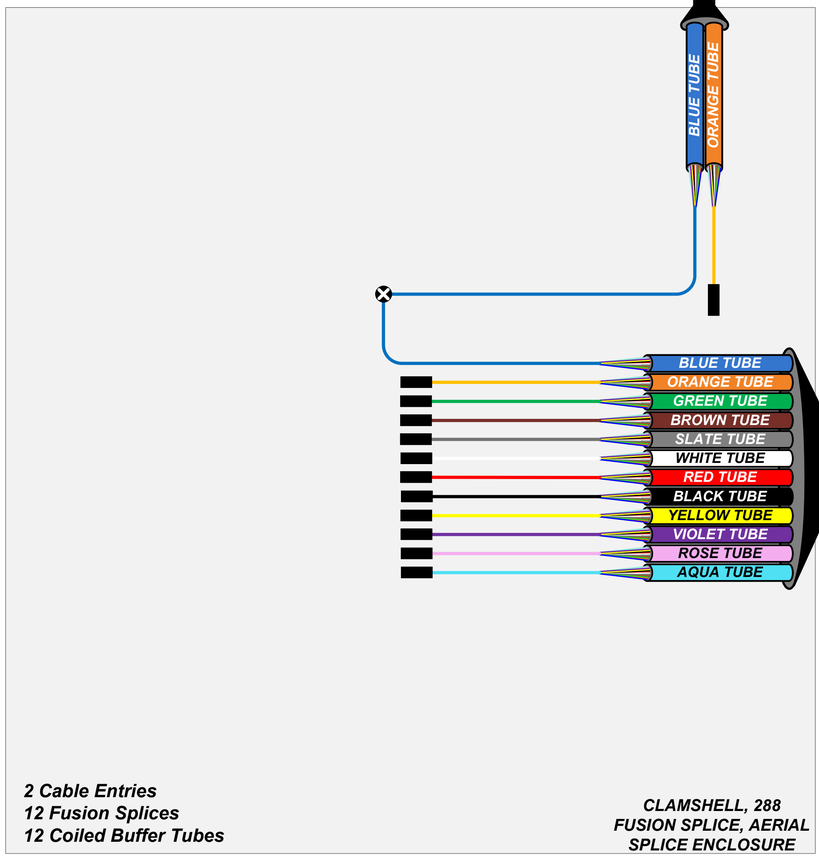






24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION



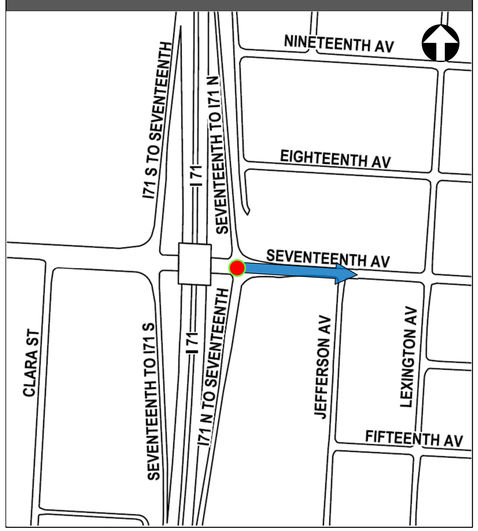
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3061

REFER TO SHEET 471 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 676 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3061: I-71 NB RAMPS AT SEVENTEENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

856
1000

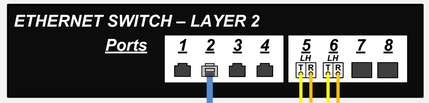
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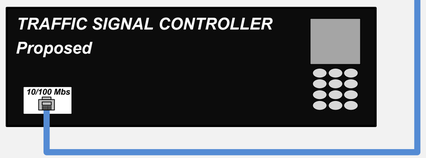
TRAFFIC SIGNAL CABINET ASSEMBLY

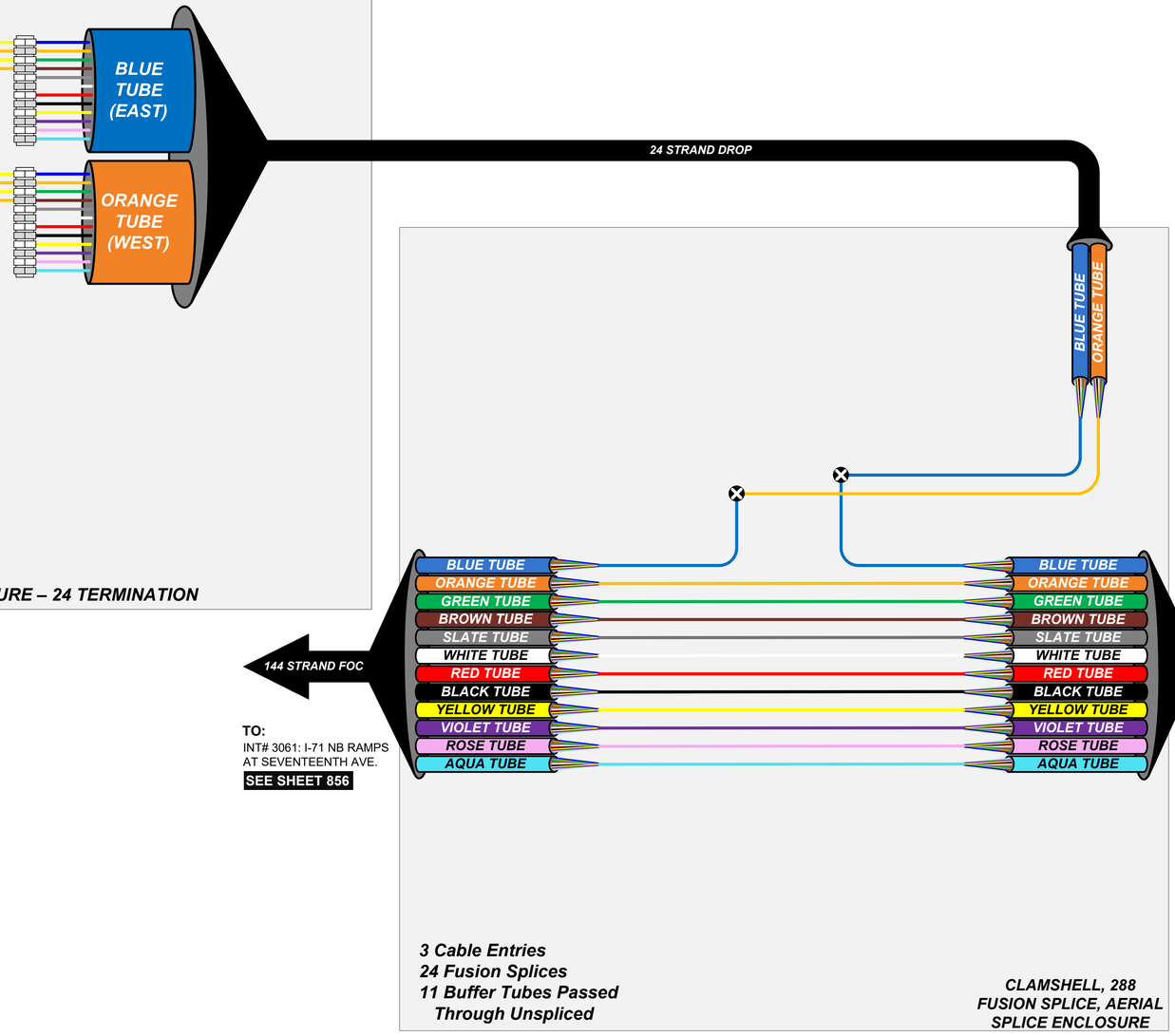
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
SEE SHEET 964

PORT 6: INT# 3061: I-71 NB RAMPS AT SEVENTEENTH AVE.
SEE SHEET 856







PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 3061: I-71 NB RAMPS AT SEVENTEENTH AVE.
SEE SHEET 856

TO:
INT# 3015: CLEVELAND AVE. AT SEVENTEENTH AVE.
SEE SHEET 858

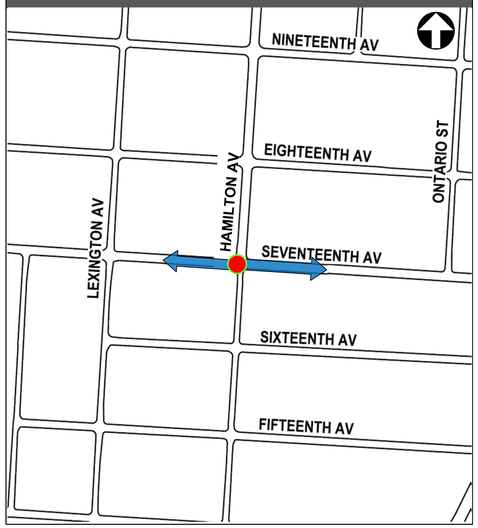
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3062
REFER TO SHEET 471 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 676 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3062: HAMILTON AVE. AT SEVENTEENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

857
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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3018: CLEVELAND AVE. AT TWENTY-FOURTH AVE.

PORT 6: EXISTING CONNECTION TO INT# 3013: CLEVELAND AVE. AT ELEVENTH AVE.

PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING PATCH PANEL ENCLOSURE – (2) - 24 TERMINATION

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (SPARE)

BLUE TUBE (EAST)
ORANGE TUBE (WEST)

24 STRAND DROP

EXISTING 24 STRAND DROP

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO: INTERSECTION AT CLEVELAND AVE. AND TWENTIETH AVE.

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 — EXISTING 12 STRAND DROP

BLUE TUBE — EXISITNG 12 STRAND DROP

TO: EXISTING COTA CABINETS

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 144 STRAND FOC

TO: INT# 3126: JOYCE AVE. AT SEVENTEENTH AVE.
SEE SHEET 859

EXISTING 144 STRAND FOC

TO: INT# 3014: CLEVELAND AVE. AT WINDSOR AVE.

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

TO: INT# 3062: HAMILTON AVE. AT SEVENTEENTH AVE.
SEE SHEET 857

144 STRAND FOC

TO: COC-TRAFFIC MAINTENANCE WORKSHOP
SEE SHEET 984

10 Cable Entries
216 Proposed Fusion Splices
48 Existing Fusion Splices
3 Coiled Buffer Tubes
7 Buffer Tubes Passed Through Unspliced

EXISTING DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

EXISTING WORK SHOWN ON THIS SHEET IS TO BE PERFORMED BY OTHERS. REFER TO COTA BRT PROJECT 3163-E

REMOVE EXISTING FUSION SPLICES AND RESPLICE BUFFER TUBES AS SHOWN IN THE DIAGRAM ABOVE.

FINAL DoT SPLICING CONFIGURATION TO BE DETERMINED ON INPUT FROM COLUMBUS DoT.

INTERSECTION 3015

REFER TO SHEET 473 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 676 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3015: CLEVELAND AVE. AT SEVENTEENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

858
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3127: SEVENTEENTH AVE. AT WOODLAND AVE.
SEE SHEET 860

PORT 6: (Revised) INT# 3036: FIFTH AVE. AT I-71 NB RAMPS
SEE SHEET 822

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING 144 STRAND FOC

TO:
TMC COMMUNICATIONS:
E TWENTY-FIFTH AVE
SEE SHEET 994

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 144 STRAND FOC

TO:
INT# 3015: CLEVELAND AVE. AT SEVENTEENTH AVE.
SEE SHEET 858

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# 3015: CLEVELAND AVE. AT SEVENTEENTH AVE.
SEE SHEET 858

144 STRAND FOC

TO:
COC_TMWS: 1820 SEVENTEENTH AVE.
SEE SHEET 985

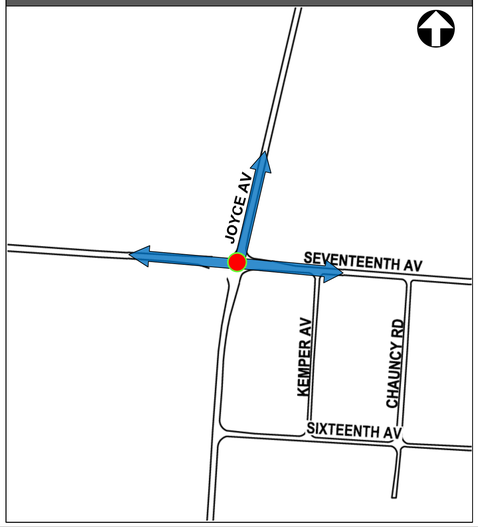
5 Cable Entries
48 Fusion Splices
2 Coiled Buffer Tube
19 Buffer Tubes Passed Through Unspliced

EXISTING DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

REMOVE EXISTING FUSION SPLICES AND RESPLICE BUFFER TUBES AS SHOWN IN THE DIAGRAM ABOVE.

FINAL DoT SPLICING CONFIGURATION TO BE DETERMINED ON INPUT FROM COLUMBUS DoT.

DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

INTERSECTION 3126

REFER TO SHEET 476 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 676 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

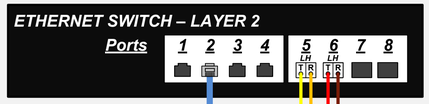
INT# 3126: JOYCE AVE. AT SEVENTEENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

859
1000

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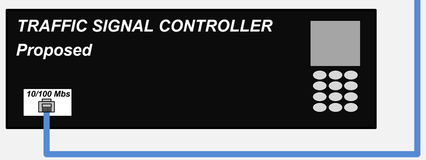
TRAFFIC SIGNAL CABINET ASSEMBLY

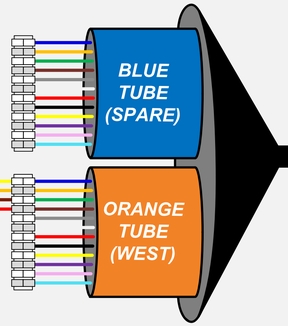


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3061: I-71 NB RAMPS AT SEVENTEENTH AVE.
SEE SHEET 856

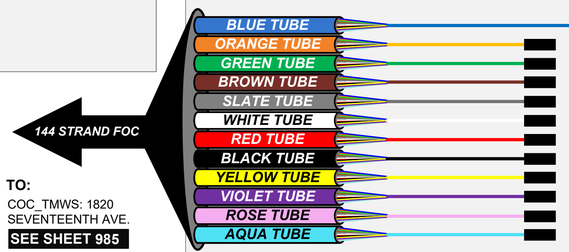
PORT 6: INT# 3126: JOYCE AVE. AT SEVENTEENTH AVE.
SEE SHEET 859





24 STRAND DROP





TO:
COC_TMWS: 1820
SEVENTEENTH AVE.
SEE SHEET 985

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

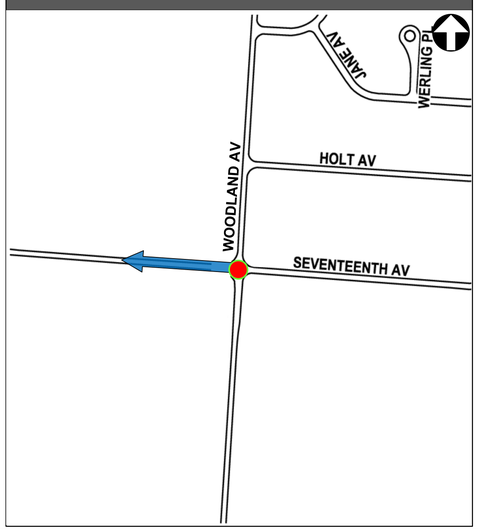
CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3127
REFER TO SHEET 479 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 676 FOR COMM OVERVIEW DETAILS

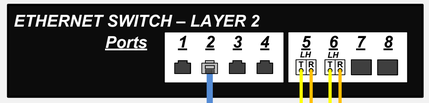
CIP: 540007 - 100006
PID NUMBER: 82573

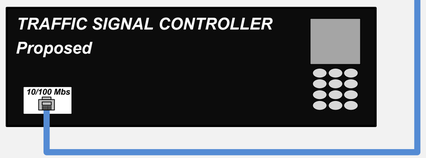
INT# 3127: SEVENTEENTH AVE. AT WOODLAND AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

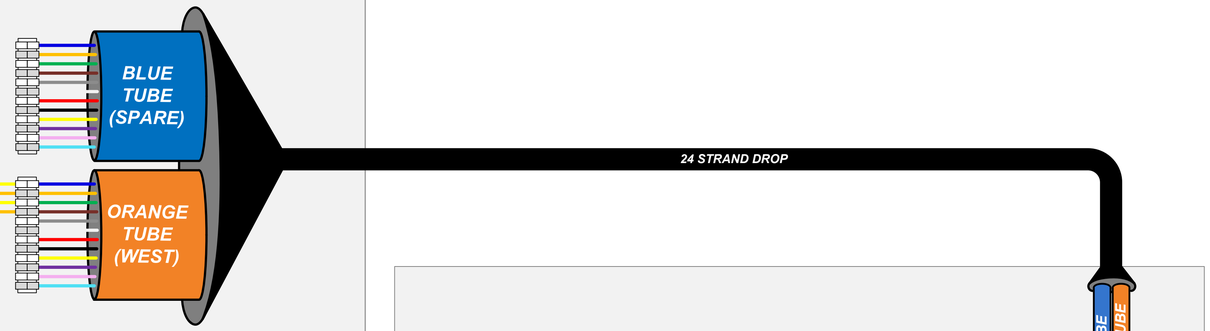




ETHERNET SWITCH PORT DESTINATION

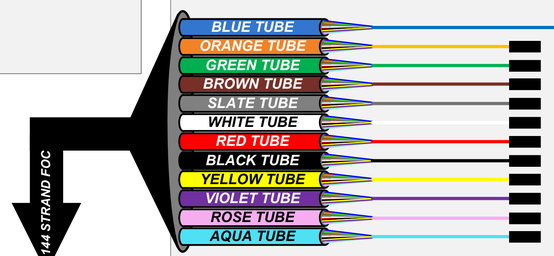
PORT 5: INT# 3053: E LONG ST. AT SEVENTEENTH ST.
SEE SHEET 863

PORT 6: INT# 3057: E LONG ST. AT TAYLOR AVE.
SEE SHEET 866



PATCH PANEL ENCLOSURE – 24 TERMINATION





TO:
INT# 3056: E LONG ST. AT N CHAMPION AVE. / GOVERNORS PL.
SEE SHEET 864

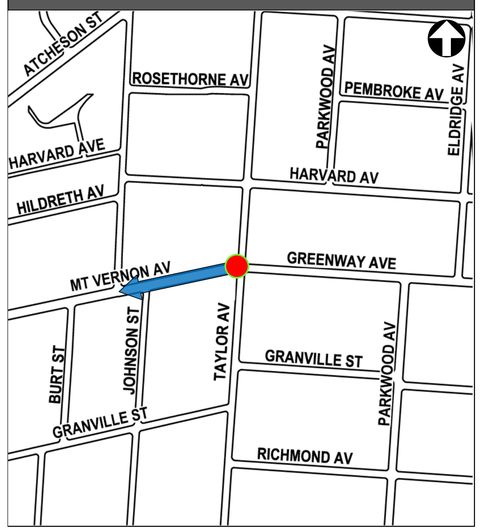
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3091
REFER TO SHEET 189 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

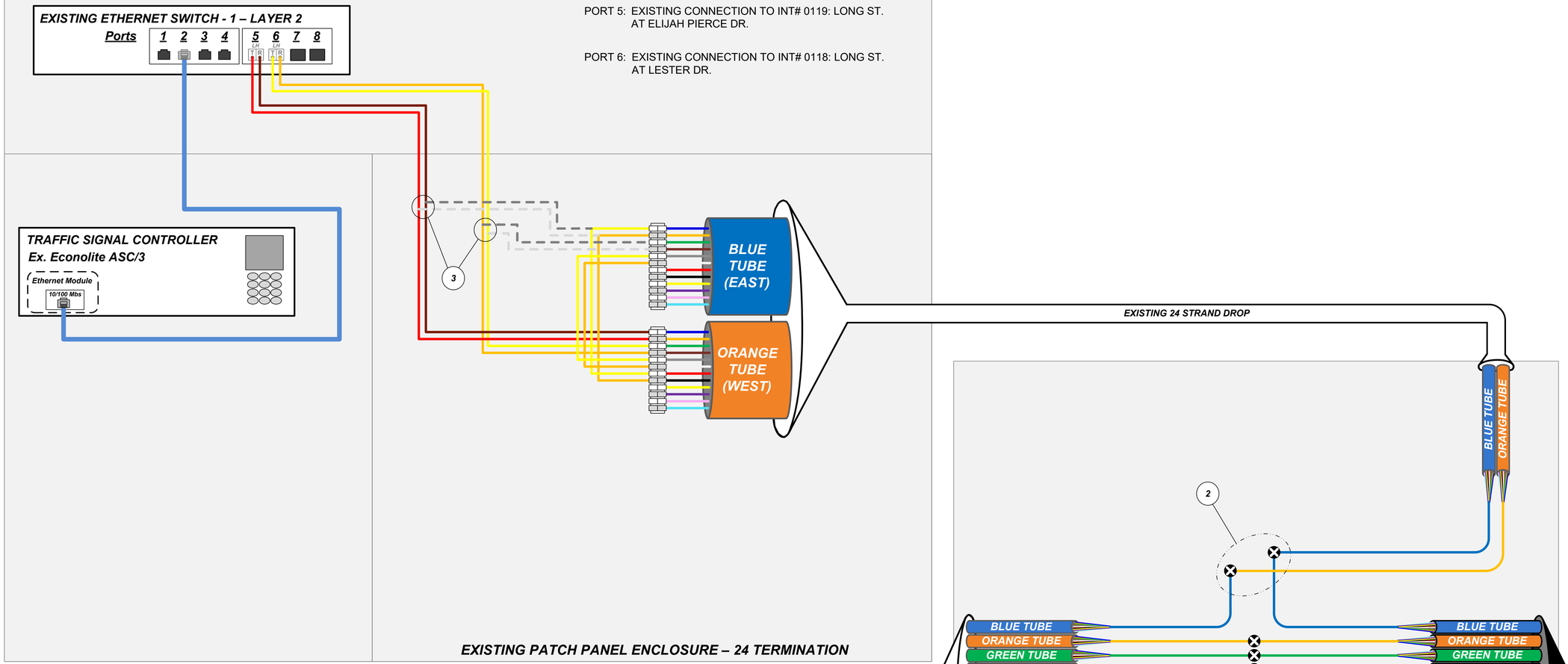
INT# 3091: MT VERNON AVE. AT TAYLOR AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

861
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

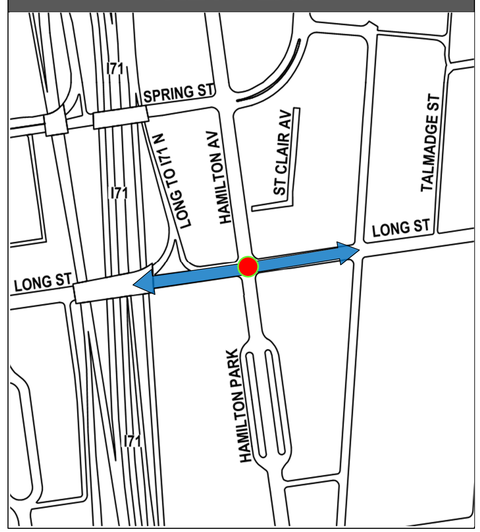
PORT 5: EXISTING CONNECTION TO INT# 0119: LONG ST. AT ELIJAH PIERCE DR.

PORT 6: EXISTING CONNECTION TO INT# 0118: LONG ST. AT LESTER DR.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

FOR EXISTING WORK SHOWN ON THIS SHEET REFER TO CTSS PHASE B PROJECT 2762-E

[2]REMOVE EXISTING SPLICING BETWEEN 24 STRAND DROP CABLE AND 144 STRAND CABLE. RESPLICE THE CABLES AS SHOWN IN THE DIAGRAM ABOVE.

[3]DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

INTERSECTION 3052

REFER TO SHEET 174 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 677 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3052: E LONG ST. AT HAMILTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

862
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 — 5 (LH T R) 6 (LH T R) 7 (LH T R) 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3091: MT VERNON AVE. AT TAYLOR AVE.
SEE SHEET 861

PORT 6: EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670.
SEE SHEET 995

PORT 7: INT# 3001: E BROAD ST AT N SEVENTEENTH ST.
SEE SHEET 871

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (SPARE)
ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

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

TO:
INT# 3052: E LONG ST.
AT HAMILTON AVE.
SEE SHEET 862

TO:
INT# 3056: E LONG
ST. AT N CHAMPION
AVE. / GOVERNORS
SEE SHEET 864

5 Cable Entries
36 Fusion Splices
2 Coiled Buffer Tubes
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

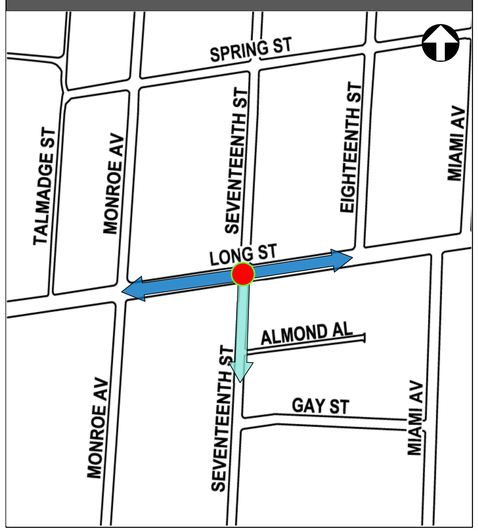
24 STRAND FOC

TO:
INT# 3001: E BROAD ST
AT N SEVENTEENTH ST.
SEE SHEET 871

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3053

REFER TO SHEET 175 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 677 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

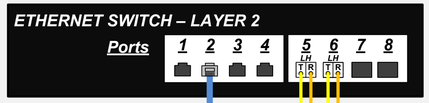
INT# 3053: E LONG ST. AT SEVENTEENTH ST.
COMMUNICATIONS DIAGRAM

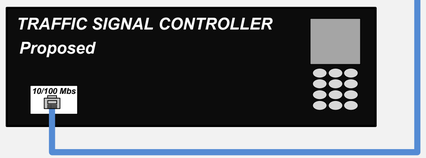
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

863
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

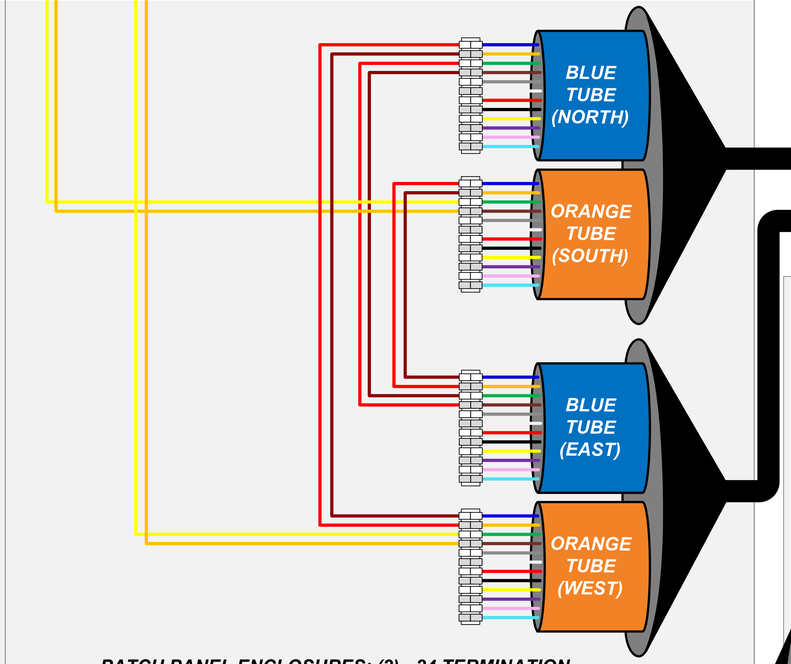




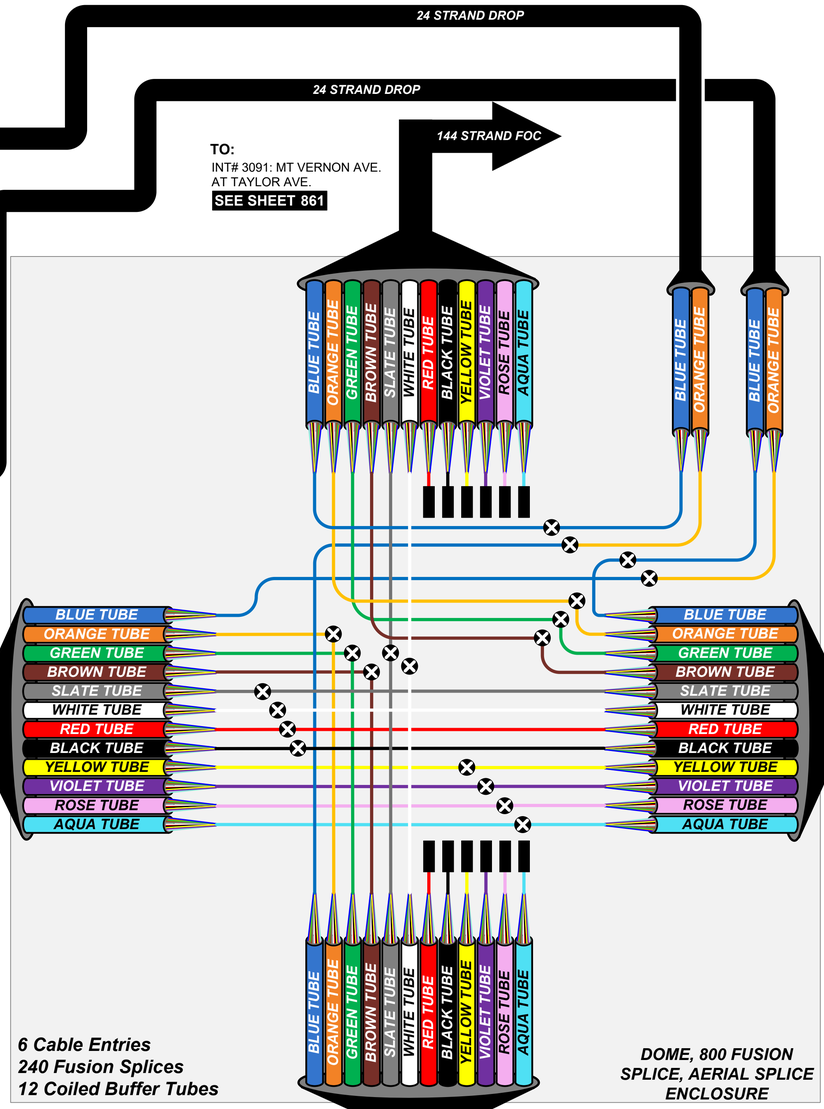
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3003: E BROAD ST. AT OHIO AVE.
SEE SHEET 873

PORT 6: EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670.
SEE SHEET 995



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3056

REFER TO SHEET 177 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3056: E LONG ST. AT N CHAMPION AVE. / GOVERNORS PL.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

864
1000

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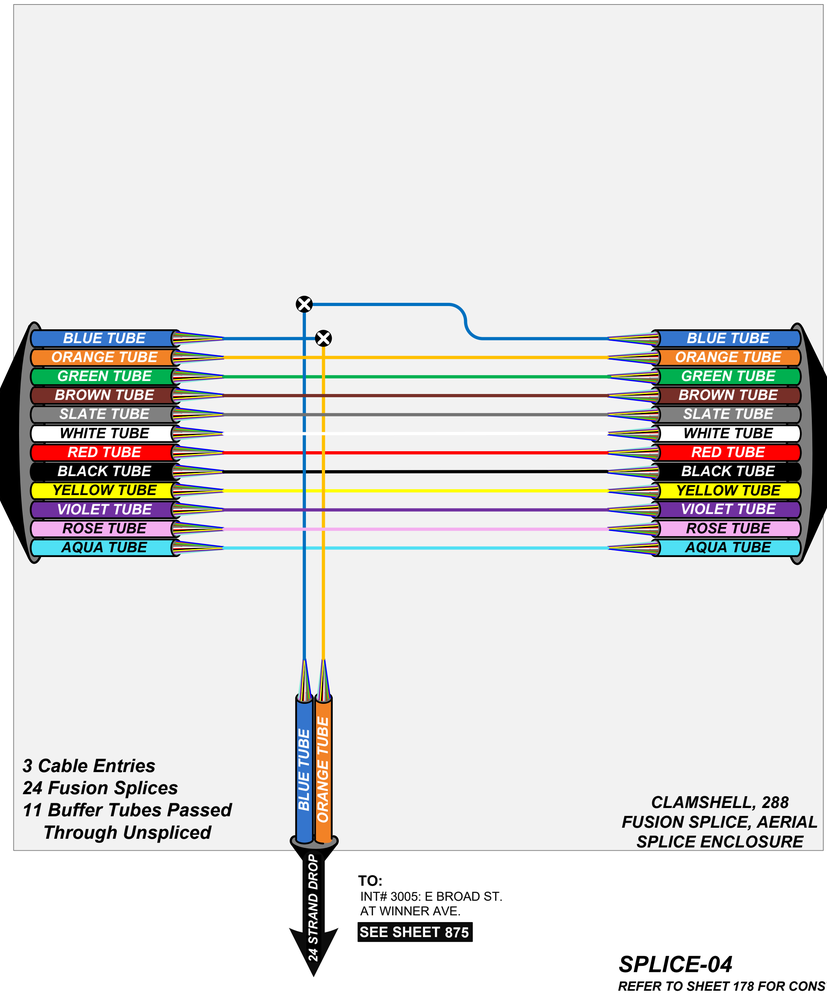
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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN





TO:
INT# 3056: E LONG ST. AT N CHAMPION AVE. / GOVERNORS PL.
SEE SHEET 701

TO:
INT# 3057: E LONG ST. AT TAYLOR AVE.
SEE SHEET 866

TO:
INT# 3005: E BROAD ST. AT WINNER AVE.
SEE SHEET 875

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

SPLICE-04

REFER TO SHEET 178 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

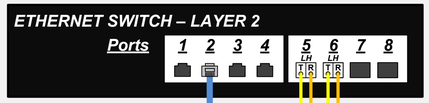
SPLICE-04: E LONG ST. AT WINNER AVE.
COMMUNICATIONS DIAGRAM

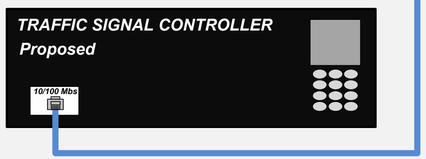
CIP: 540007 - 100006
PID NUMBER: 82573

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

865
1000

TRAFFIC SIGNAL CABINET ASSEMBLY

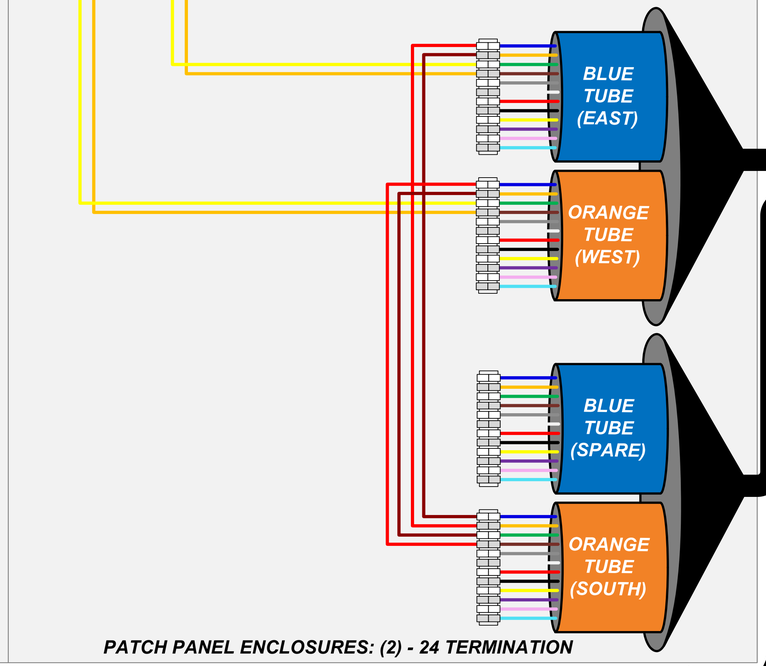




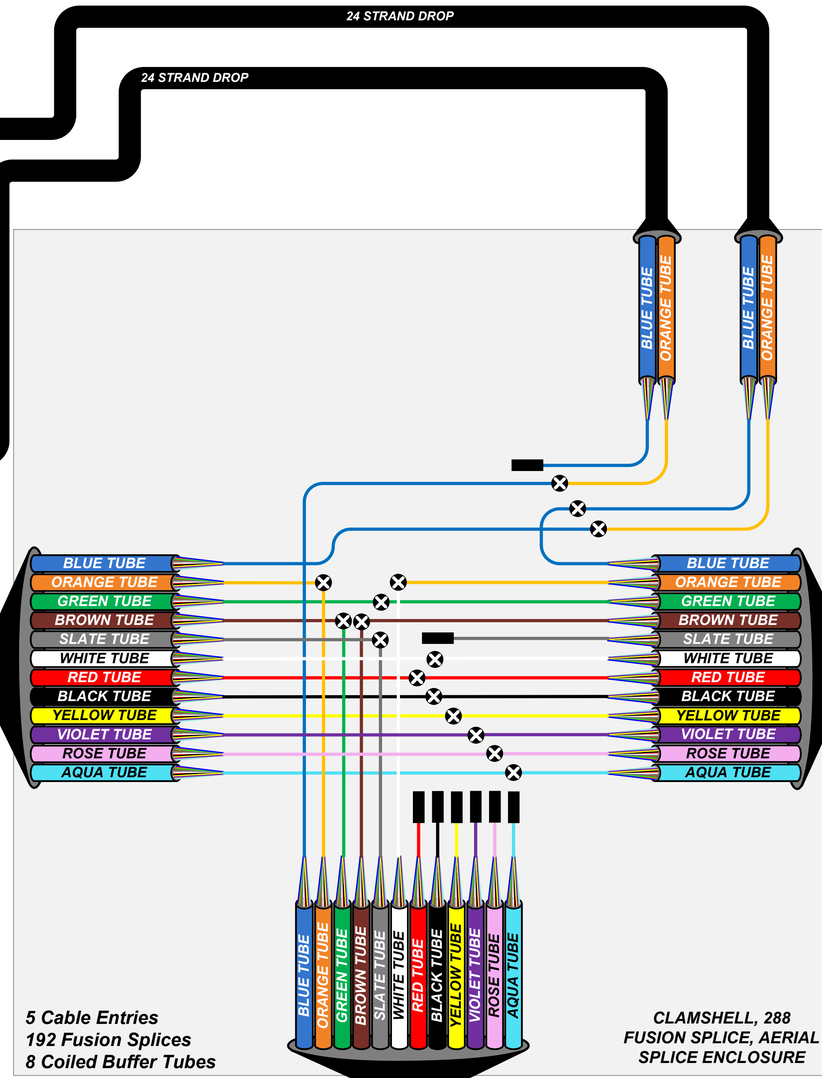
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3059: E LONG ST. AT N NELSON RD.
SEE SHEET 869

PORT 6: INT# 3091: MT VERNON AVE. AT TAYLOR AVE.
SEE SHEET 861



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



TO:
SPLICE-04: E LONG ST.
AT WINNER AVE.
SEE SHEET 865

TO:
SPLICE-05: E LONG ST.
AT PARKWOOD AVE.
SEE SHEET 867

5 Cable Entries
192 Fusion Splices
8 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

TO:
INT# 3006: E BROAD ST.
AT TAYLOR AVE.
SEE SHEET 876

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3057

REFER TO SHEET 180 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3057: E LONG ST. AT TAYLOR AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

866
1000

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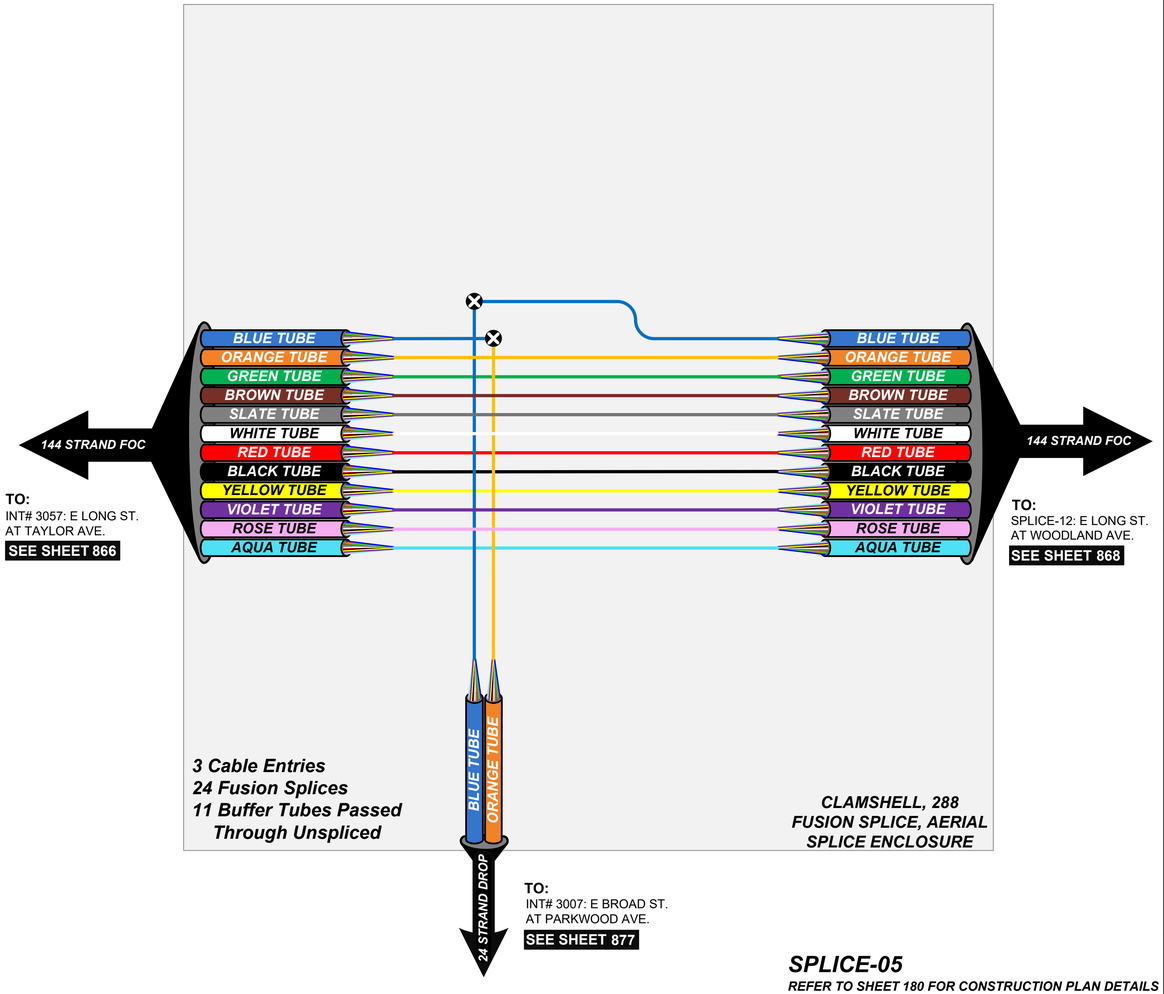
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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN





SPLICE-05

REFER TO SHEET 180 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

SPLICE-05: E LONG ST. AT PARKWOOD AVE.
COMMUNICATIONS DIAGRAM

CIP: 540007 - 100006
PID NUMBER: 82573

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

867
1000

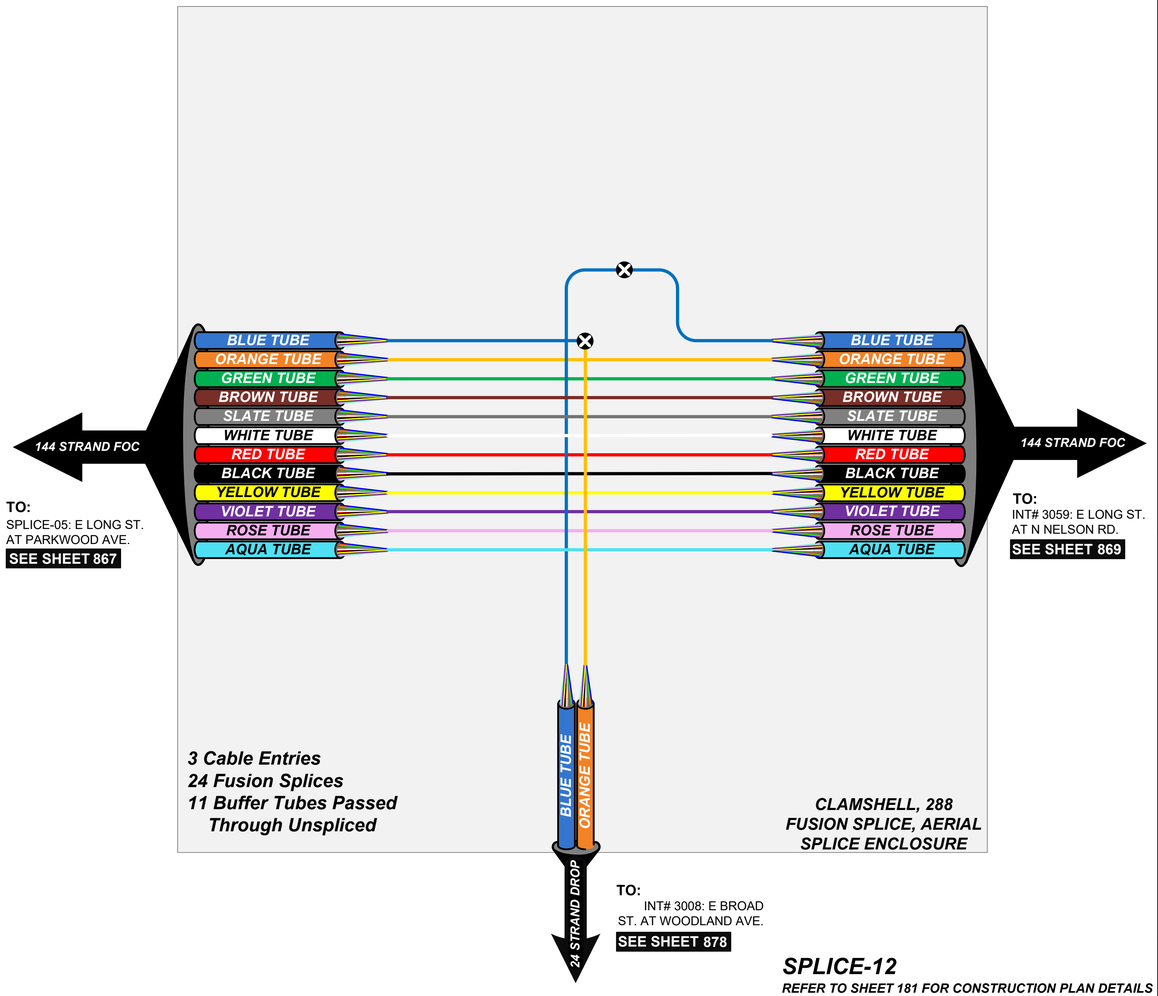
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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN





TO:
SPLICE-05: E LONG ST. AT PARKWOOD AVE.
SEE SHEET 867

TO:
INT# 3059: E LONG ST. AT N NELSON RD.
SEE SHEET 869

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 3008: E BROAD ST. AT WOODLAND AVE.
SEE SHEET 878

SPLICE-12

REFER TO SHEET 181 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

SPLICE-12: E LONG ST. AT WOODLAND AVE.
COMMUNICATIONS DIAGRAM

CIP: 540007 - 100006
PID NUMBER: 82573

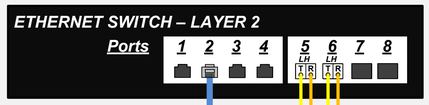
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

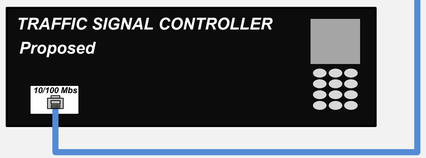
TRAFFIC SIGNAL CABINET ASSEMBLY

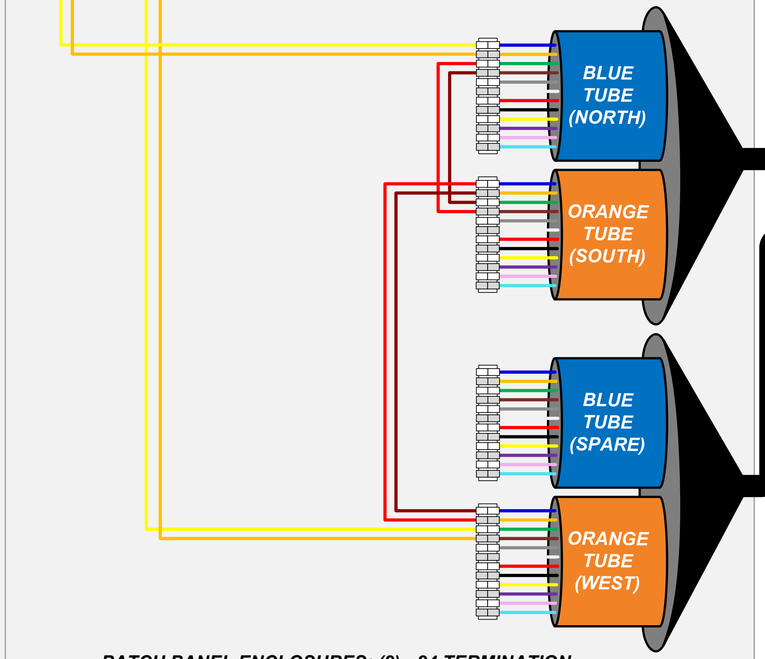
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3123: CLIFTON AVE. / GREENWAY AVE. AT N NELSON RD.
SEE SHEET 870

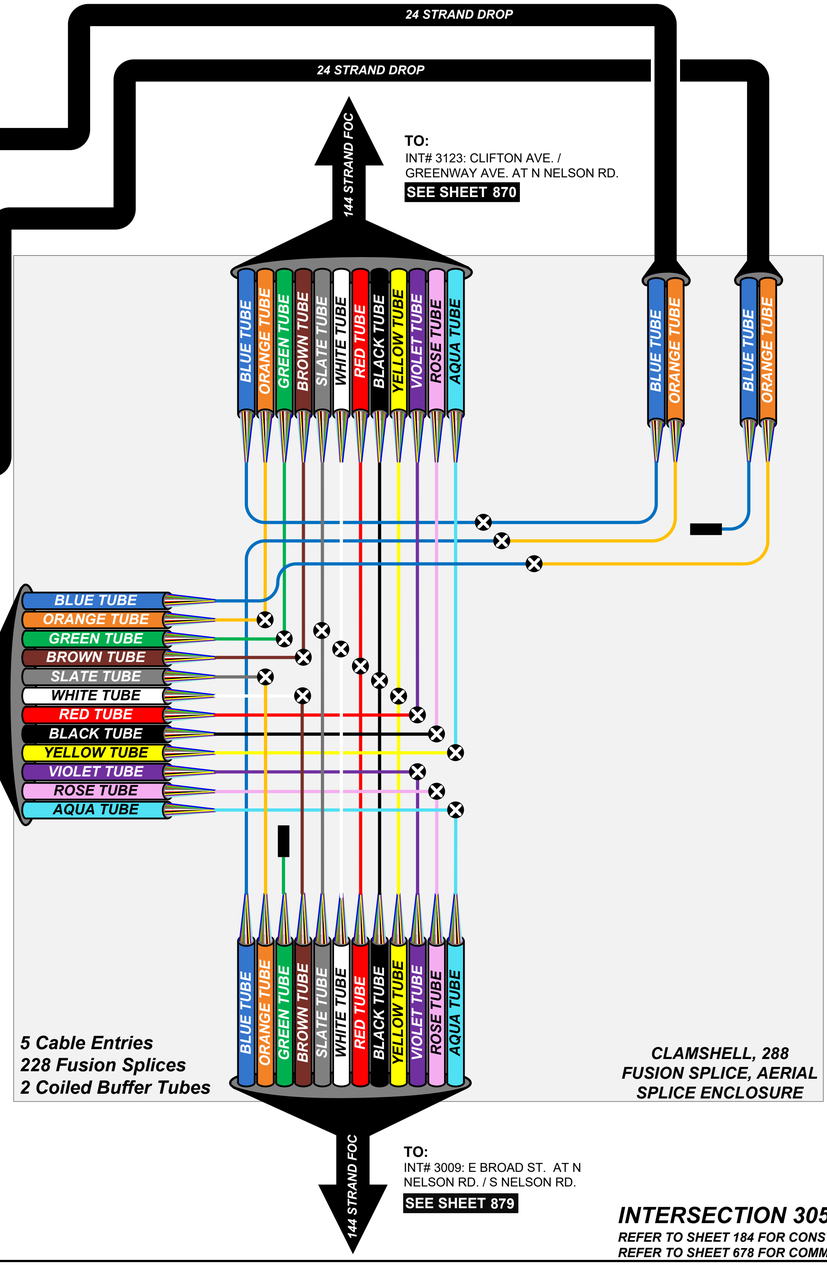
PORT 6: INT# 3057: E LONG ST. AT TAYLOR AVE.
SEE SHEET 866







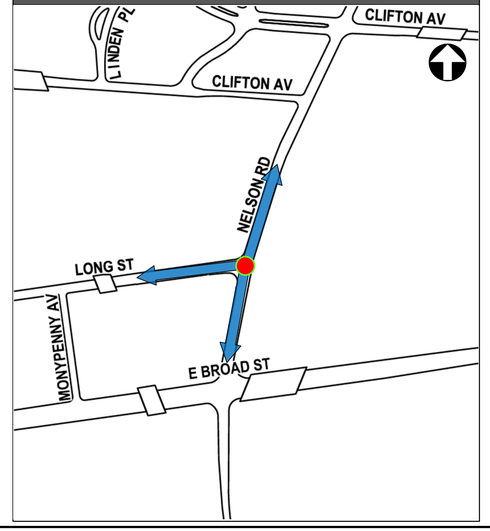
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3059

REFER TO SHEET 184 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

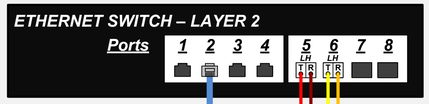
INT# 3059: E LONG ST. AT N NELSON RD.
COMMUNICATIONS DIAGRAM

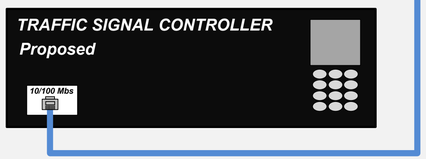
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

869
1000

J:\Jobs\601351\TECHPROD\Communications\Intersection Sheets\Splicing Details\862-870.vsd - 3059 layout ~ last saved by: skoganti 3/31/2020 4:53:55 PM ~ printed: 3/31/2020 5:09:31 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

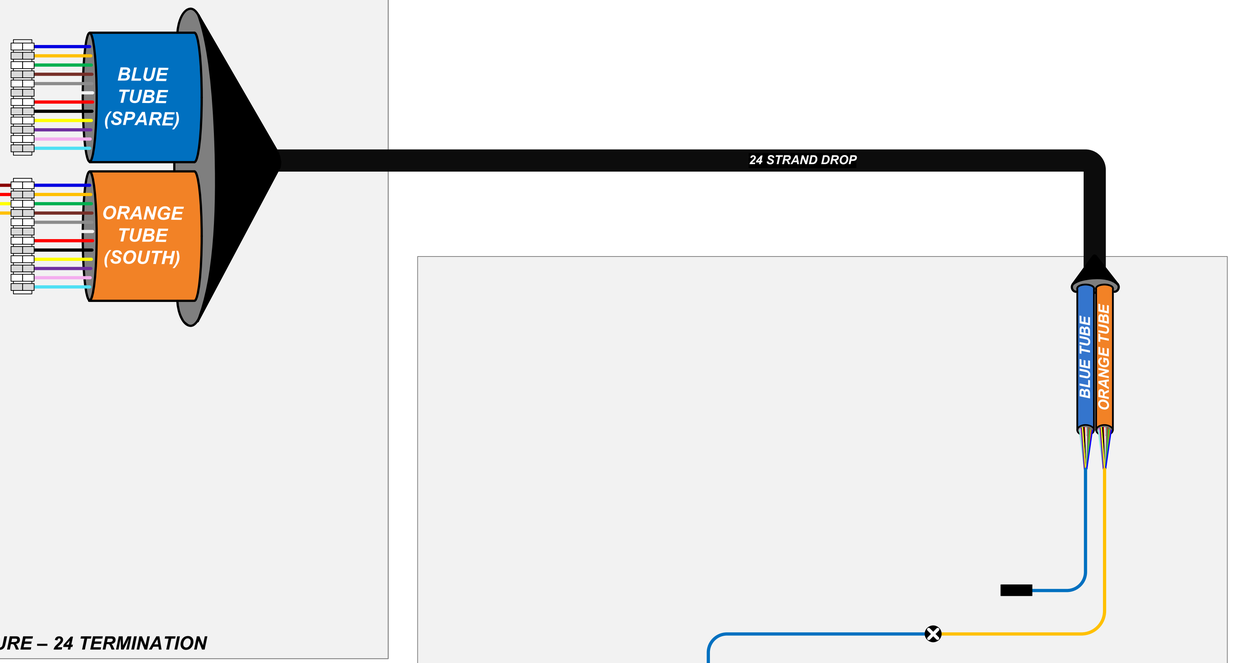




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3059: E LONG ST. AT N NELSON RD.
SEE SHEET 869

PORT 6: INT# 3009: E BROAD ST. AT N NELSON RD. / S NELSON RD.
SEE SHEET 879



PATCH PANEL ENCLOSURE – 24 TERMINATION

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

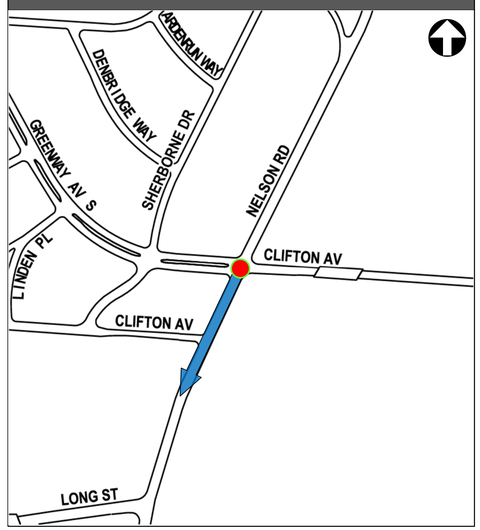
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 3059: E LONG ST.
AT N NELSON RD.
SEE SHEET 869

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3123

REFER TO SHEET 185 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

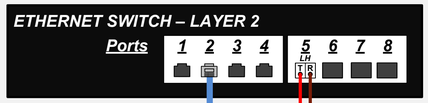
INT# 3123: CLIFTON AVE. / GREENWAY AVE. AT N NELSON RD.
COMMUNICATIONS DIAGRAM

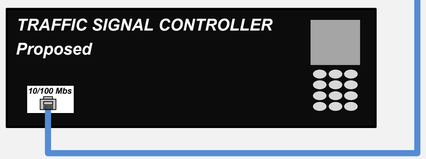
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

870
1000

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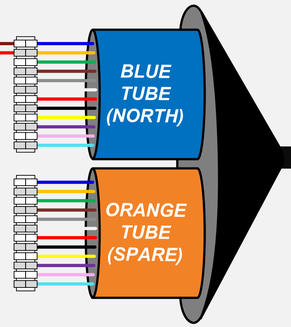
TRAFFIC SIGNAL CABINET ASSEMBLY



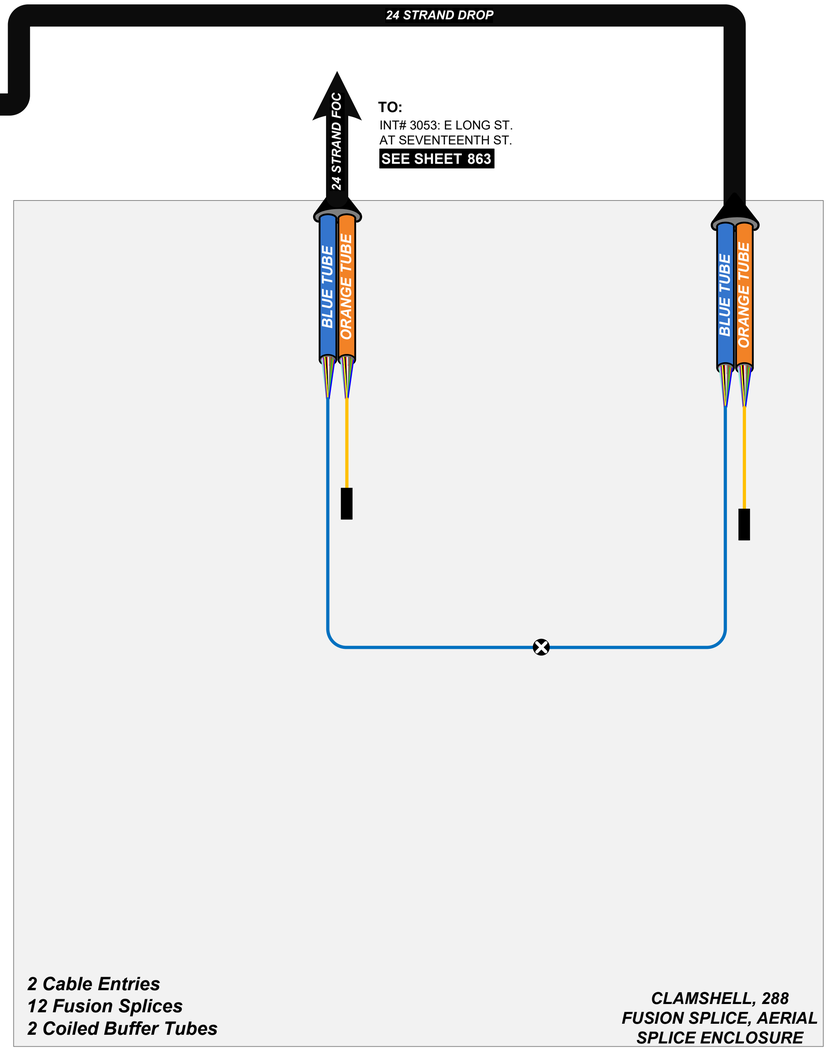


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3053: E LONG ST. AT SEVENTEENTH ST.
SEE SHEET 863



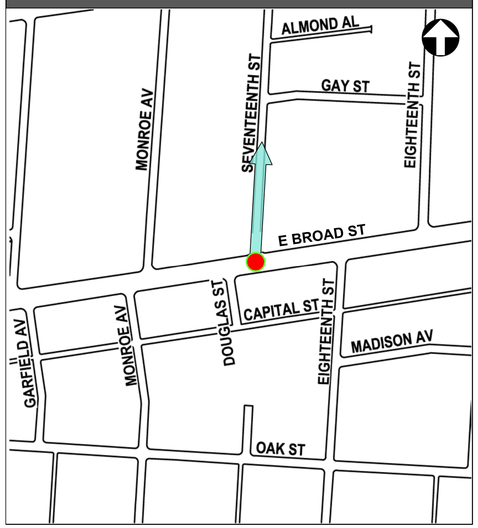
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3001

REFER TO SHEET 163 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 677 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3001: E BROAD ST AT N SEVENTEENTH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

871
1000

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J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\871-885.vsd - 0116, 0117, 0119 layout ~ last saved by: skoganti 3/31/2020 4:54:20 PM ~ printed: 3/31/2020 5:09:46 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

TO:
EXISTING CCTV

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 0117: ELIJAH PIERCE AT SPRING ST.
SEE THIS SHEET

PORT 6: INT# 3052: E LONG ST. AT HAMILTON AVE.
SEE SHEET 867

PORT 7: EXISTING CONNECTION TO INT# 0030: LONG AT JEFFERSON AVE.

EXISTING 24 STRAND DROP

BLUE TUBE (NORTH)

ORANGE TUBE (SPARE)

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

EXISTING 24 STRAND DROP

INTERSECTION 0119 (FUTURE INTERSECTION)

ELIJAH PIERCE DR. AT LONG ST.
REFER TO SHEET 677 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURES (2) – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100
RS232

TO:
EXISTING CCTV

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 0117: ELIJAH PIERCE AT SPRING ST.
SEE THIS SHEET

PORT 6: EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670.
SEE SHEET 995

BLUE TUBE (EAST)

ORANGE TUBE (SOUTH)

EXISTING 24 STRAND DROP

INTERSECTION 0116

LESTER DR. AT SPRING ST.
REFER TO SHEET 677 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100
RS232

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 0119: ELIJAH PIERCE AT LONG ST.
SEE THIS SHEET

PORT 6: EXISTING CONNECTION TO INT# 0116: LESTER DR. SPRING ST.
SEE THIS SHEET

BLUE TUBE (SOUTH)

ORANGE TUBE (WEST)

EXISTING 24 STRAND DROP

INTERSECTION 0117

ELIJAH PIERCE AT SPRING ST.
REFER TO SHEET 677 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 0116, 0117, & 0119 PATCH PANELS
COMMUNICATIONS DIAGRAM

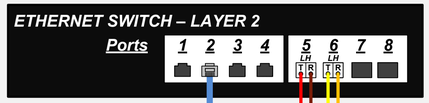
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

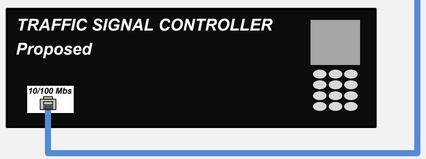
TRAFFIC SIGNAL CABINET ASSEMBLY

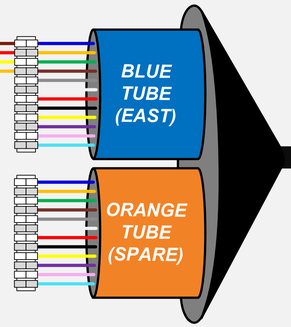
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3004: E BROAD ST. AT S CHAMPION AVE. / GOVERNORS PL.
SEE SHEET 874

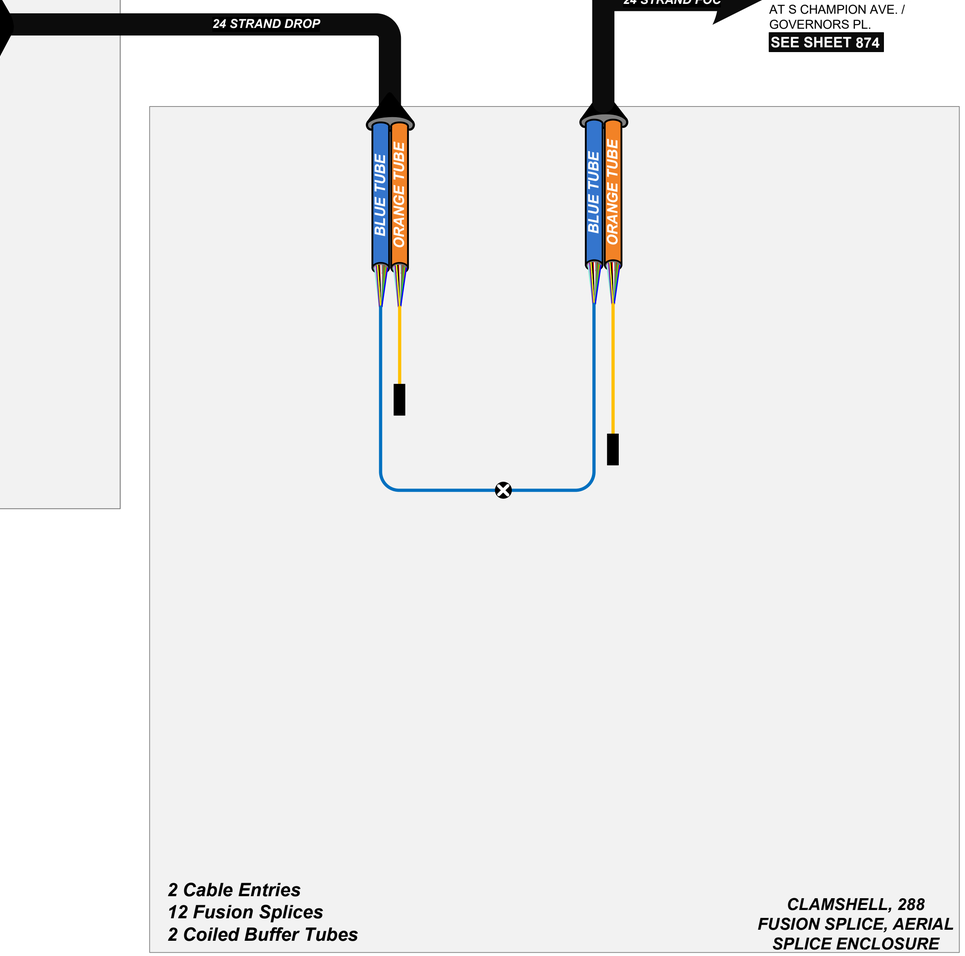
PORT 6: INT# 3056: E LONG ST. AT N CHAMPION AVE. / GOVERNORS PL.
SEE SHEET 864







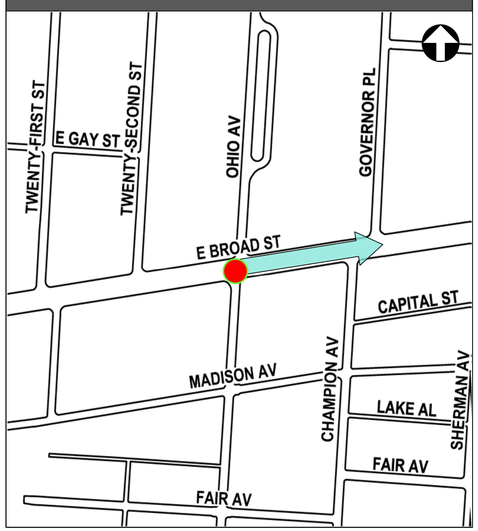
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3003

REFER TO SHEET 165 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 677 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3003: E BROAD ST. AT OHIO AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

873
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3005: E BROAD ST. AT WINNER AVE.
SEE SHEET 875

PORT 6: INT# 3003: E BROAD ST. AT OHIO AVE.
SEE SHEET 873

BLUE TUBE (NORTH)

ORANGE TUBE (WEST)

24 STRAND DROP

144 STRAND FOC

TO:
INT# 3056: E LONG ST. AT N CHAMPION AVE. / GOVERNORS PL.
SEE SHEET 864

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

24 STRAND FOC
BLUE TUBE
ORANGE TUBE

TO:
INT# 3003: E BROAD ST.
AT OHIO AVE.
SEE SHEET 873

3 Cable Entries
36 Fusion Splices
10 Coiled Buffer Tubes

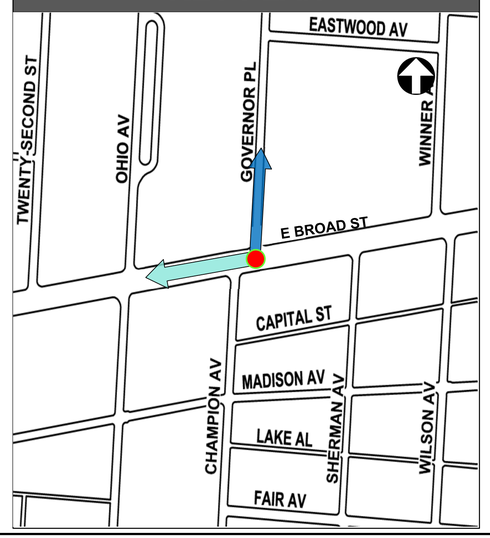
CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3004
REFER TO SHEET 165 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

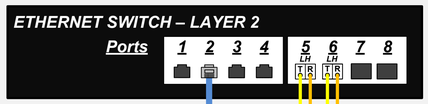
INT# 3004: E BROAD ST. AT S CHAMPION AVE. / GOVERNORS PL.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

874
1000

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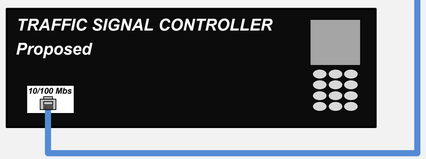
TRAFFIC SIGNAL CABINET ASSEMBLY

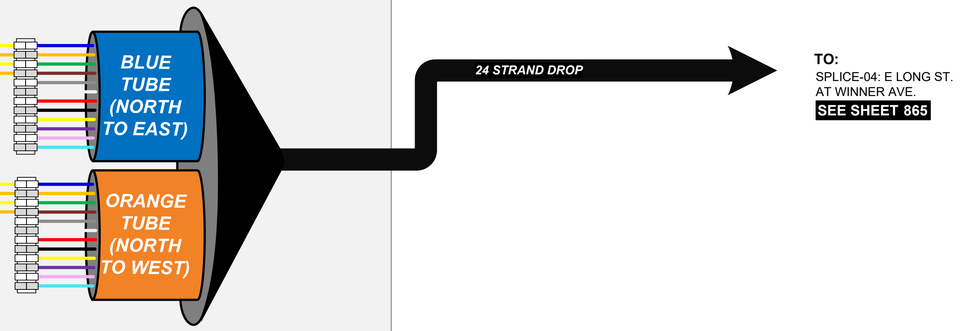


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3006: E BROAD ST. AT TAYLOR AVE.
SEE SHEET 876

PORT 6: INT# 3004: E BROAD ST. AT S CHAMPION AVE. / GOVERNORS PL.
SEE SHEET 874





TO:
SPLICE-04: E LONG ST.
AT WINNER AVE.
SEE SHEET 865

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3005

REFER TO SHEET 167 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

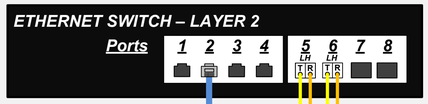
INT# 3005: E BROAD ST. AT WINNER AVE.
COMMUNICATIONS DIAGRAM

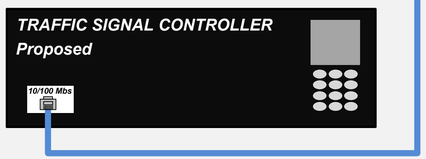
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

875
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

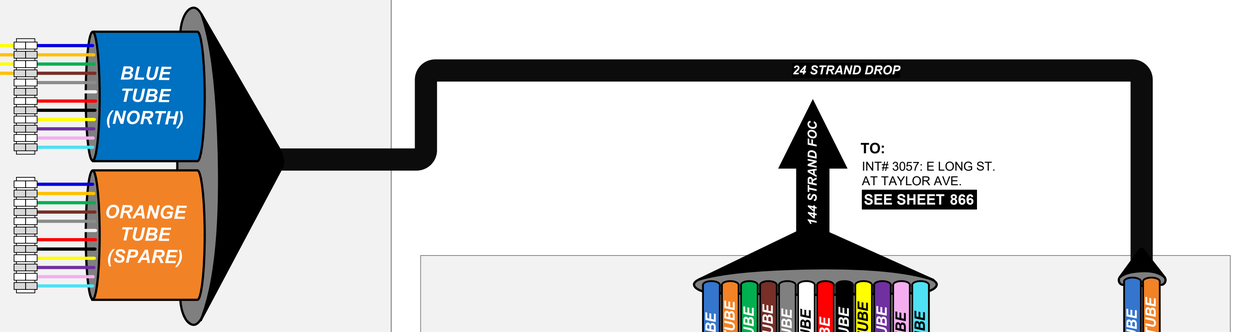




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3007: E BROAD ST. AT PARKWOOD AVE.
SEE SHEET 877

PORT 6: INT# 3005: E BROAD ST. AT WINNER AVE.
SEE SHEET 875



PATCH PANEL ENCLOSURE – 24 TERMINATION

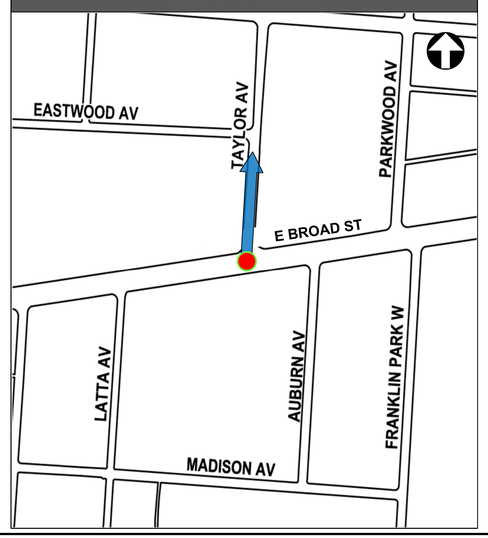
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3006

REFER TO SHEET 168 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

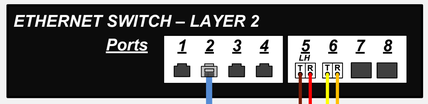
INT# 3006: E BROAD ST. AT TAYLOR AVE.
COMMUNICATIONS DIAGRAM

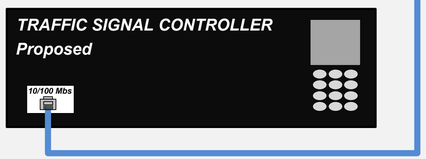
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

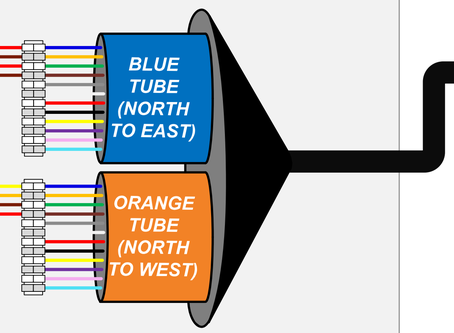




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3008: E BROAD ST. AT WOODLAND AVE.
SEE SHEET 878

PORT 6: INT# 3006: E BROAD ST. AT TAYLOR AVE.
SEE SHEET 876



24 STRAND DROP

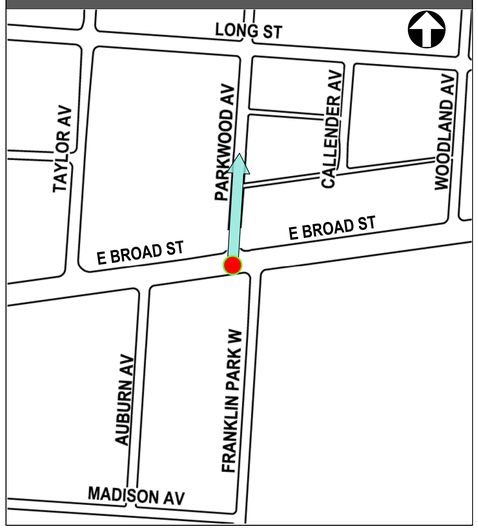
TO:
SPLICE-05: E LONG ST. AT PARKWOOD AVE.
SEE SHEET 867

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3007

REFER TO SHEET 169 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

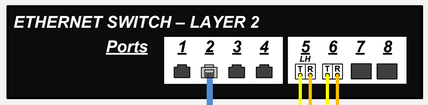
INT# 3007: E BROAD ST. AT PARKWOOD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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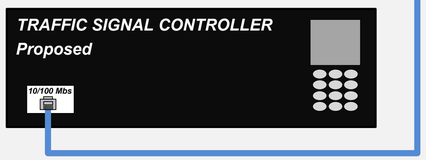
TRAFFIC SIGNAL CABINET ASSEMBLY

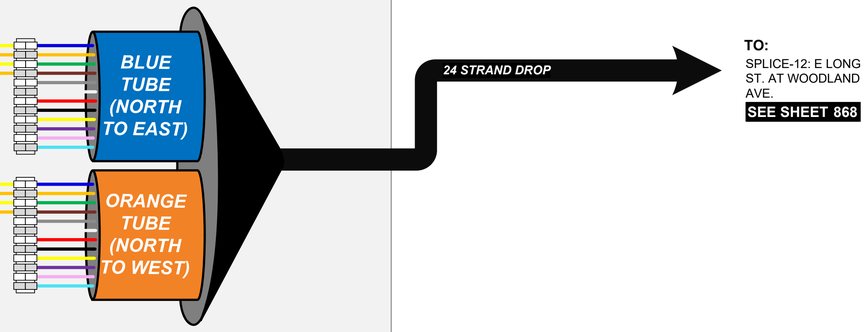


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3009: E BROAD ST. AT N NELSON RD. / S NELSON RD.
SEE SHEET 879

PORT 6: INT# 3007: E BROAD ST. AT PARKWOOD AVE.
SEE SHEET 877





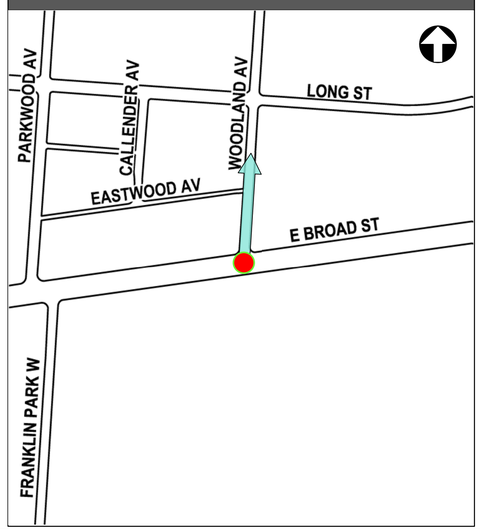
TO:
SPLICE-12: E LONG ST. AT WOODLAND AVE.
SEE SHEET 868

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3008

REFER TO SHEET 170 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3008: E BROAD ST. AT WOODLAND AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

878
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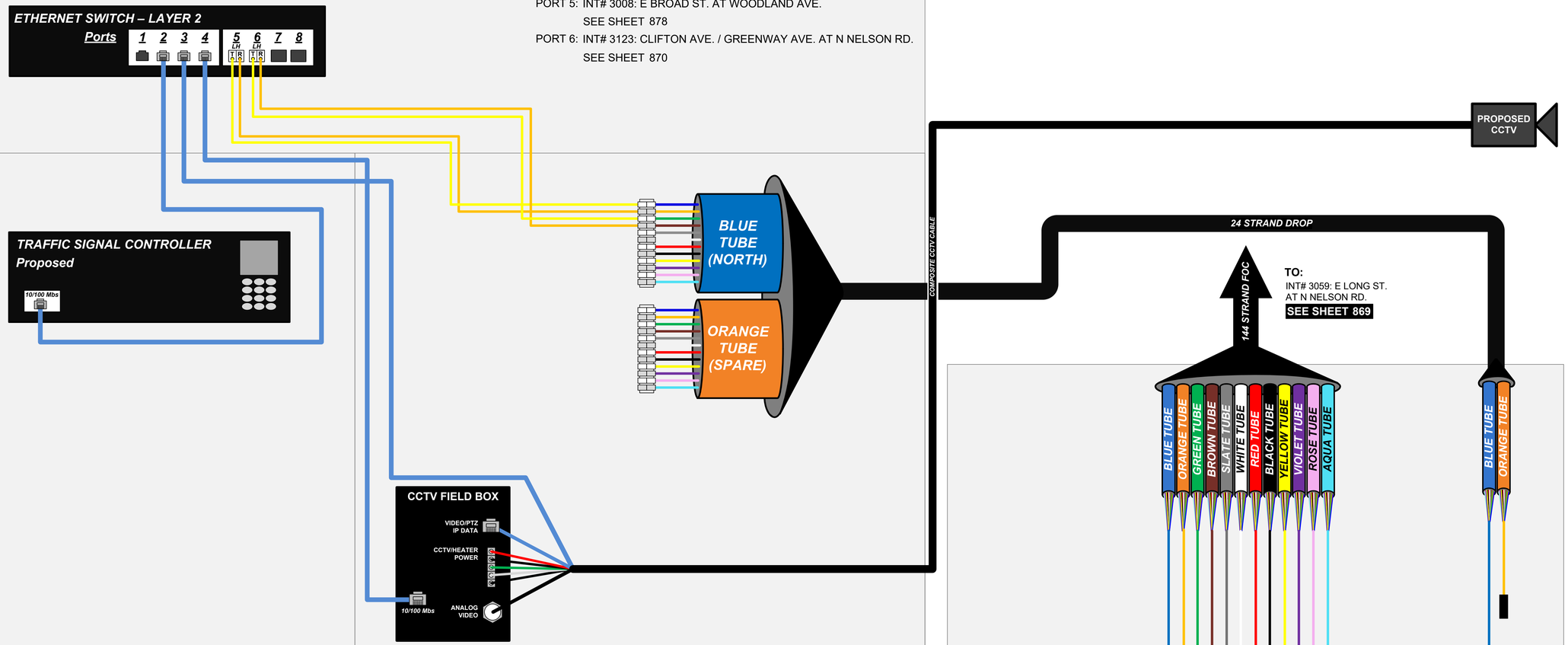
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3008: E BROAD ST. AT WOODLAND AVE.
SEE SHEET 878

PORT 6: INT# 3123: CLIFTON AVE. / GREENWAY AVE. AT N NELSON RD.
SEE SHEET 870

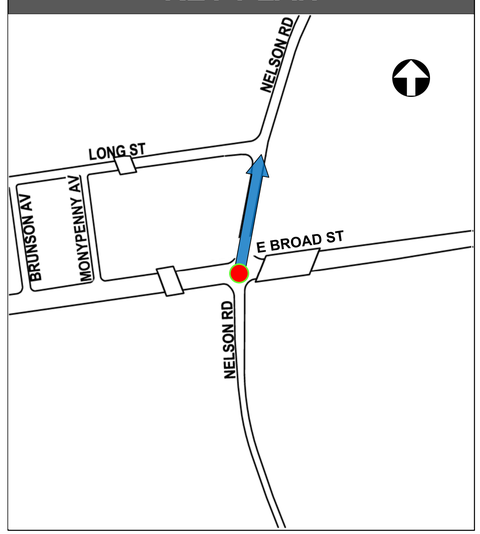


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3009

REFER TO SHEET 172 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 678 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3009: E BROAD ST. AT N NELSON RD. / S NELSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

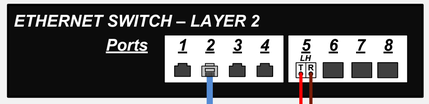
879
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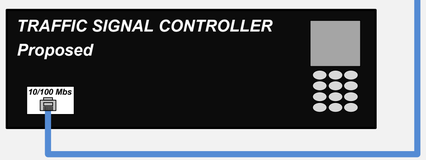
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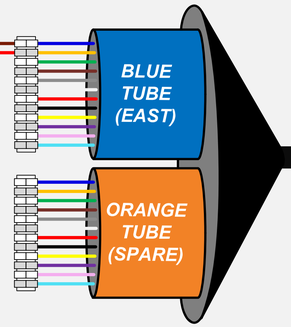
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

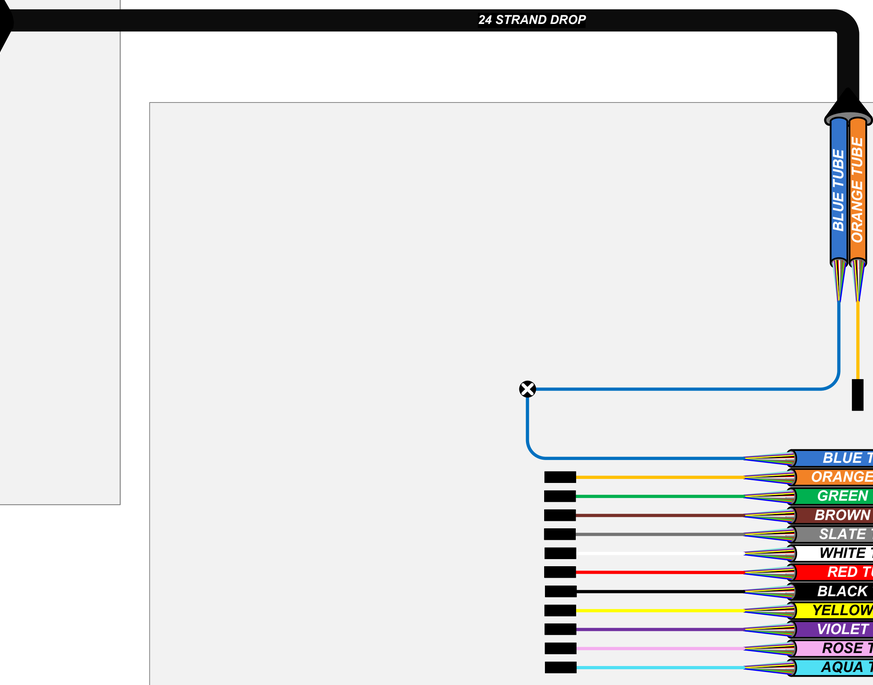
PORT 5: INT# 3074: E BROAD ST. AT HARDING RD.
SEE SHEET 881







PATCH PANEL ENCLOSURE – 24 TERMINATION



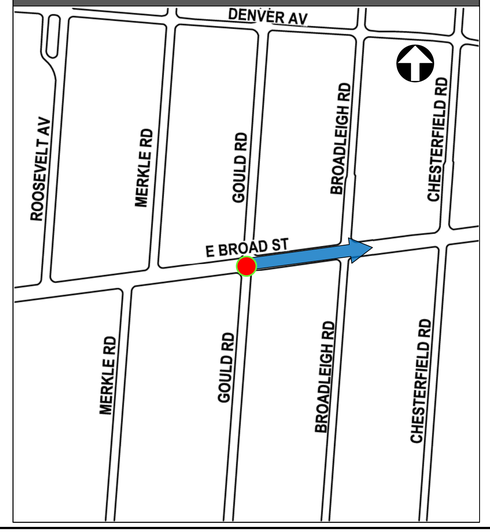
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3110

REFER TO SHEET 197 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3110: E BROAD ST. AT GOULD RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

880
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R)

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 3075: E BROAD ST. AT JAMES RD.
SEE SHEET 882

PORT 5: INT# 3110: E BROAD ST. AT GOULD RD.
SEE SHEET 880

WIRELESS LINK TO
INT# 3075: E BROAD ST.
AT JAMES RD.
SEE SHEET 882

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

BLUE TUBE

ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

144 STRAND FOC

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:
INT# 3110: E BROAD ST.
AT GOULD RD.
SEE SHEET 880

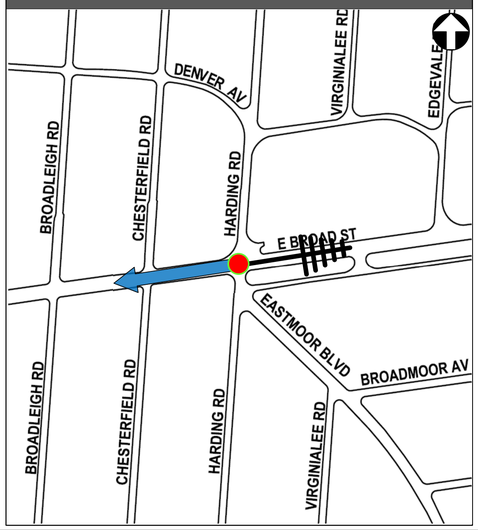
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3074

REFER TO SHEET 198 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3074: E BROAD ST. AT HARDING RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

881
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 | 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed

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

ETHERNET SWITCH PORT DESTINATION

PORT 2: INT# 3074: E BROAD ST. AT HARDING RD.
SEE SHEET 881

PORT 5: INT# 3115: JAMES RD. AT ROOSEVELT AVE. / RUHL AVE.
SEE SHEET 893

PORT 6: INT# 2180: E MAIN ST. AT JAMES RD.
SEE SHEET 888

WIRELESS LINK TO
INT# 3074: E BROAD ST.
AT HARDING RD.
SEE SHEET 881

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

- BLUE TUBE (NORTH)
- ORANGE TUBE (SOUTH)
- BLUE TUBE (EAST)
- ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

144 STRAND FOC

TO:
INT# 3114: JAMES RD. AT
MARYLAND AVE.
SEE SHEET 892

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

144 STRAND FOC

TO:
INT# 3076: E BROAD ST.
AT HAMPTON RD.
SEE SHEET 883

5 Cable Entries
204 Fusion Splices
6 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

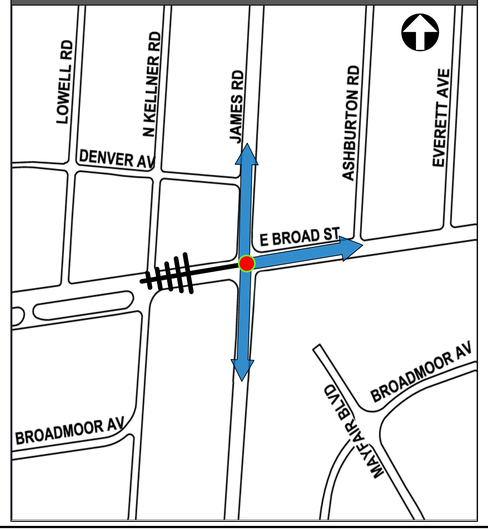
144 STRAND FOC

TO:
INT# 2179: FAIR AVE.
AT JAMES RD.
SEE SHEET 891

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3075

REFER TO SHEET 200 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

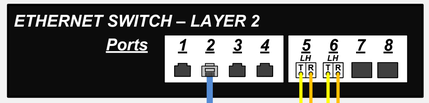
INT# 3075: E BROAD ST. AT JAMES RD.
COMMUNICATIONS DIAGRAM

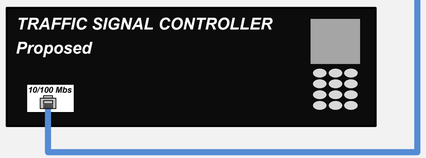
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

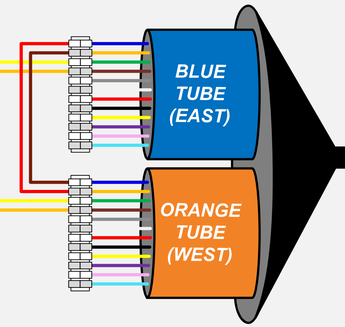


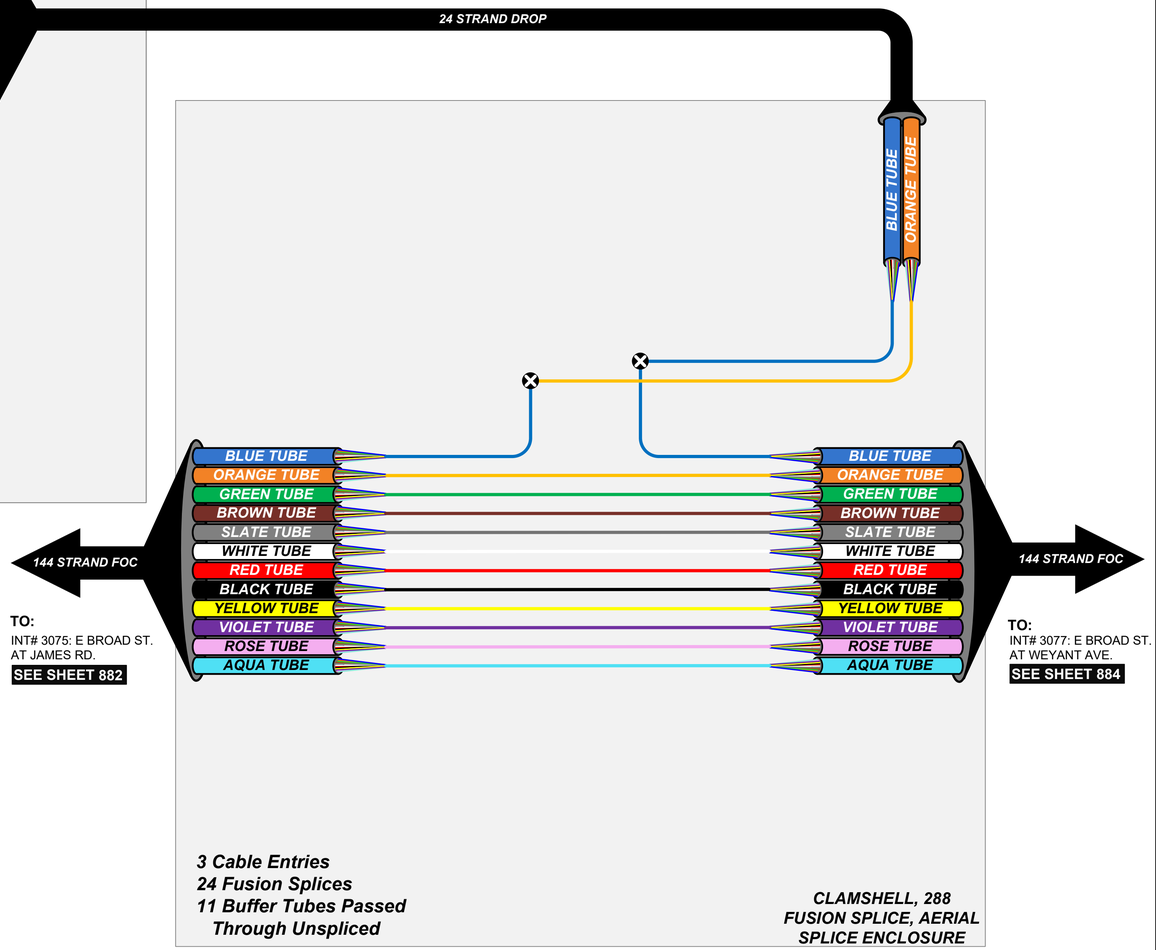


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3078: E BROAD ST. AT NAPOLEON AVE.
SEE SHEET 885

PORT 6: INT# 2179: FAIR AVE. AT JAMES RD.
SEE SHEET 891



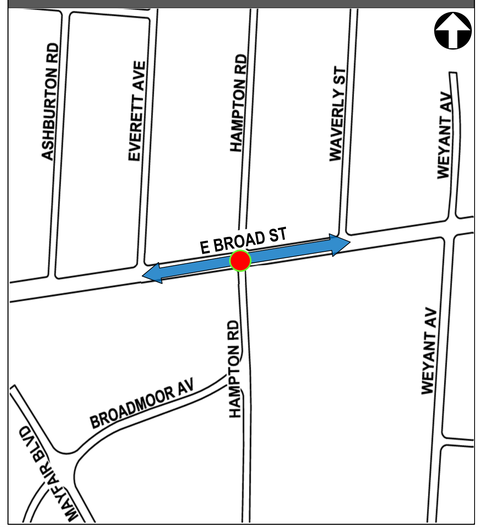


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3076

REFER TO SHEET 201 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3076: E BROAD ST. AT HAMPTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

883
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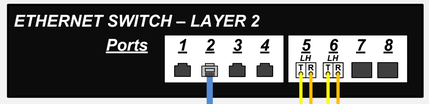
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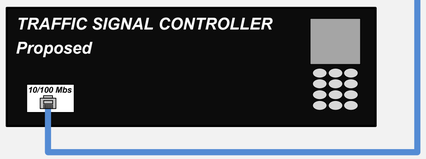
TRAFFIC SIGNAL CABINET ASSEMBLY

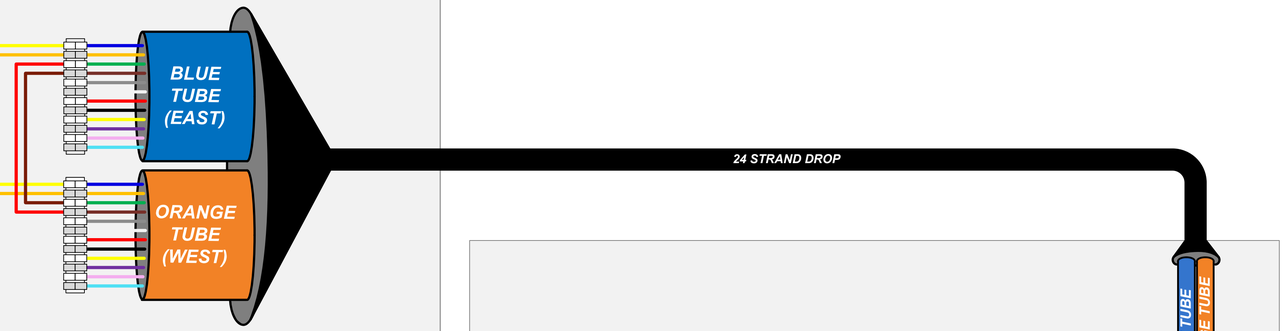
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3078: E BROAD ST. AT NAPOLEON AVE.
SEE SHEET 885

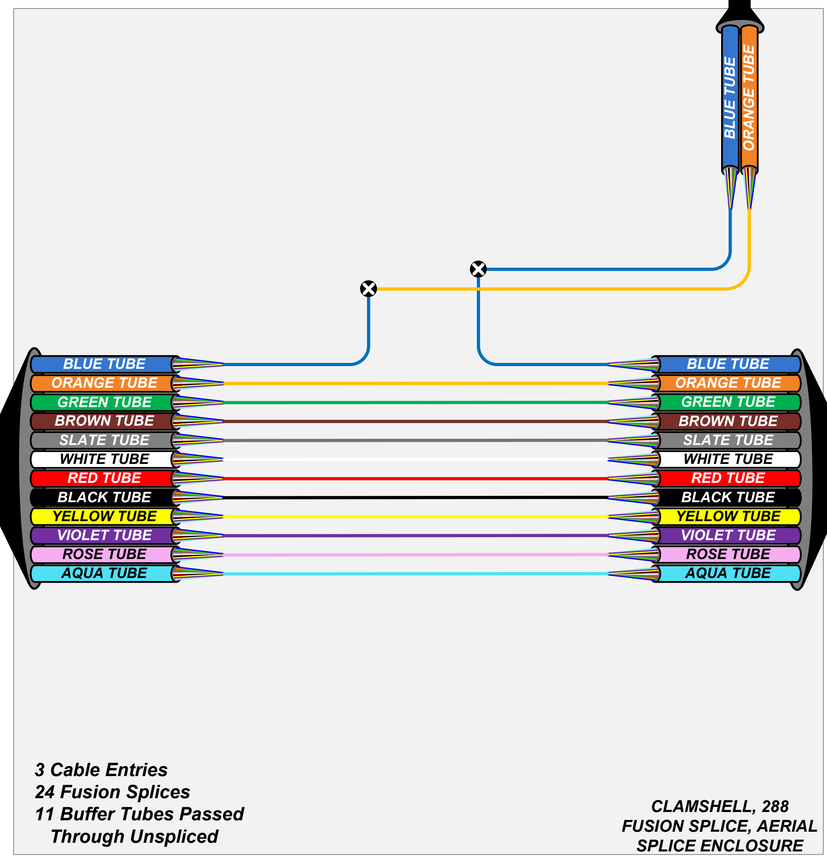
PORT 6: INT# 3114: JAMES RD. AT MARYLAND AVE.
SEE SHEET 892







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3076: E BROAD ST.
AT HAMPTON RD.
SEE SHEET 883

TO:
INT# 3078: E BROAD ST.
AT NAPOLEON AVE.
SEE SHEET 885

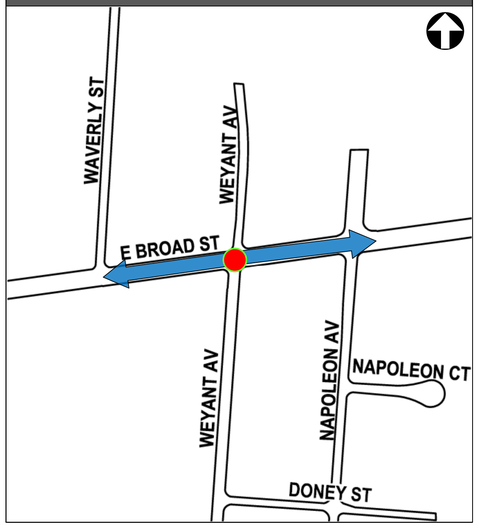
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3077

REFER TO SHEET 203 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3077: E BROAD ST. AT WEYANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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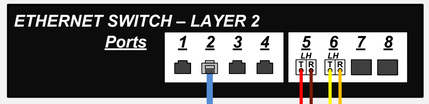
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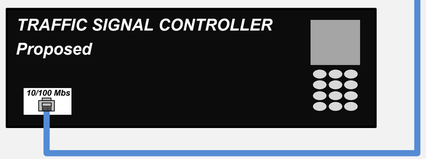
TRAFFIC SIGNAL CABINET ASSEMBLY

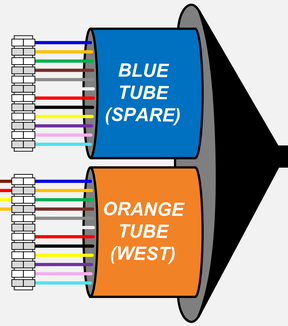
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3077: E BROAD ST. AT WEYANT AVE.
SEE SHEET 884

PORT 6: INT# 3076: E BROAD ST. AT HAMPTON RD.
SEE SHEET 883

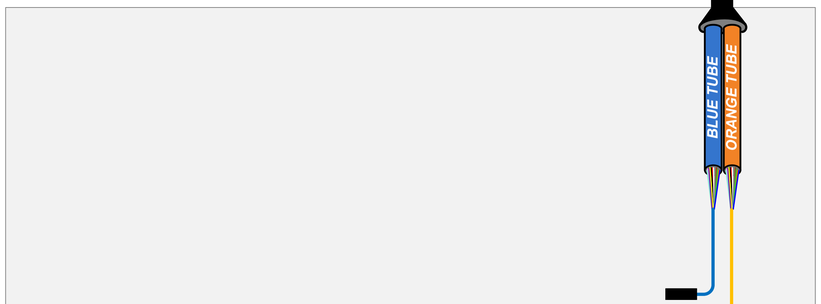


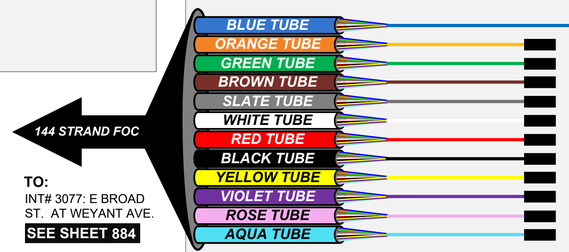




24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION





TO:
INT# 3077: E BROAD ST. AT WEYANT AVE.
SEE SHEET 884

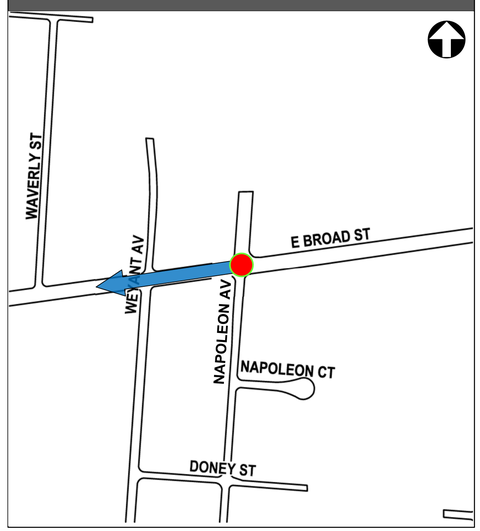
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3078

REFER TO SHEET 203 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

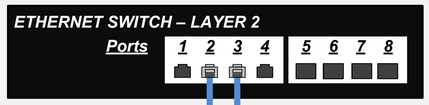
INT# 3078: E BROAD ST. AT NAPOLEON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

885
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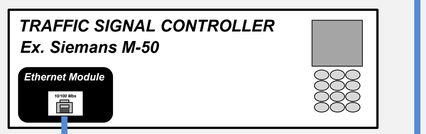
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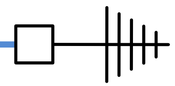
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 2142: E MAIN ST. AT EASTMOOR BLVD.
SEE SHEET 887



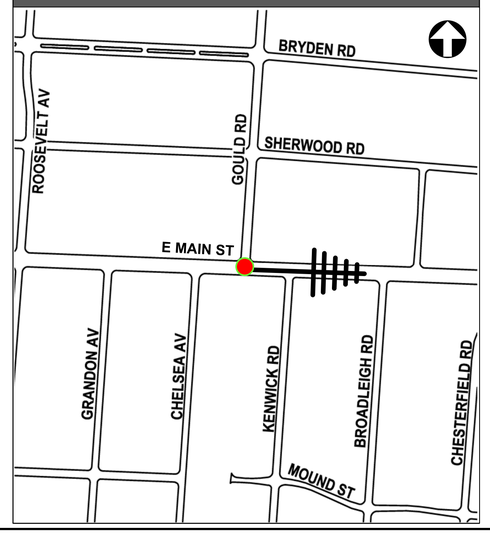


WIRELESS LINK TO
INT# 2142: E MAIN ST. AT
EASTMOOR BLVD.
SEE SHEET 887

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2141

REFER TO SHEET 191 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

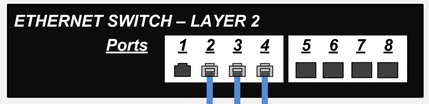
INT# 2141: E MAIN ST. AT GOULD RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

886
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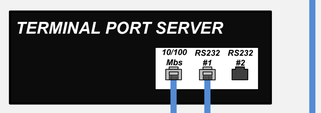
TRAFFIC SIGNAL CABINET ASSEMBLY

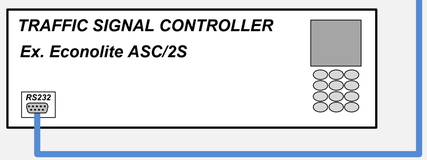


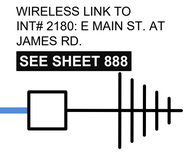
ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 2141: E MAIN ST. AT GOULD RD.
SEE SHEET 886

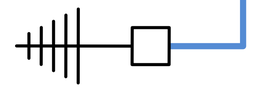
PORT 4: INT# 2180: E MAIN ST. AT JAMES RD.
SEE SHEET 888







WIRELESS LINK TO
INT# 2180: E MAIN ST. AT
JAMES RD.
SEE SHEET 888

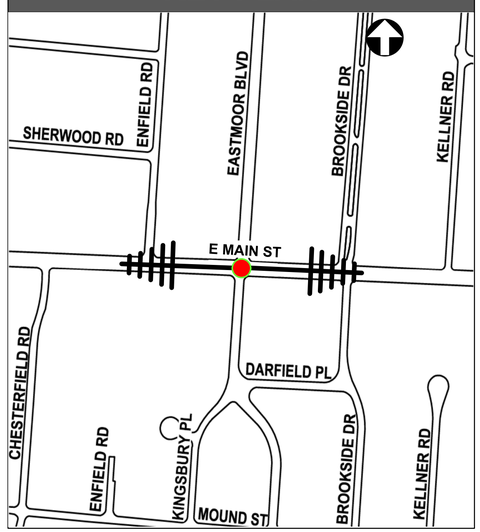


WIRELESS LINK TO
INT# 2141: E MAIN ST.
AT GOULD RD.
SEE SHEET 886

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2142

REFER TO SHEET 192 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

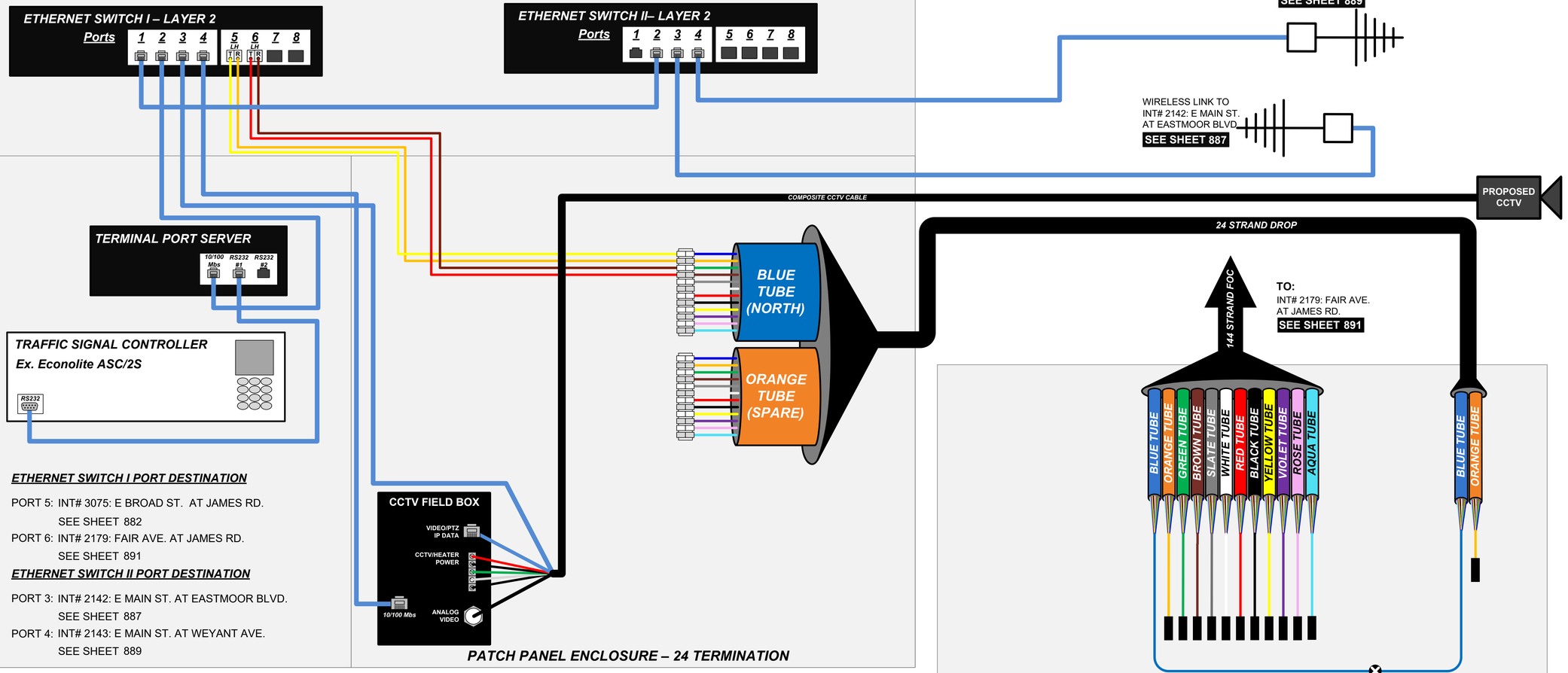
INT# 2142: E MAIN ST. AT EASTMOOR BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

887
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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH I PORT DESTINATION

PORT 5: INT# 3075: E BROAD ST. AT JAMES RD.
SEE SHEET 882
PORT 6: INT# 2179: FAIR AVE. AT JAMES RD.
SEE SHEET 891

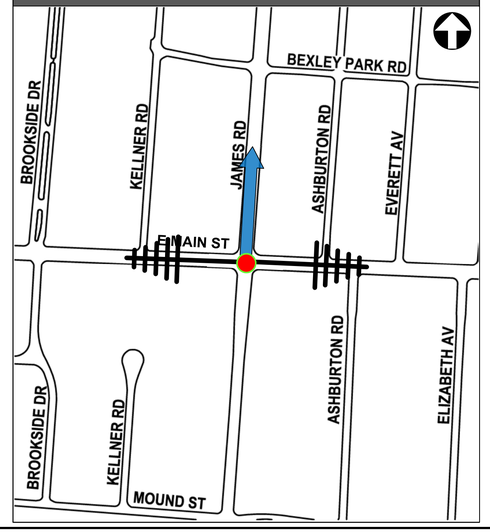
ETHERNET SWITCH II PORT DESTINATION

PORT 3: INT# 2142: E MAIN ST. AT EASTMOOR BLVD.
SEE SHEET 887
PORT 4: INT# 2143: E MAIN ST. AT WEYANT AVE.
SEE SHEET 889

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2180

REFER TO SHEET 193 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

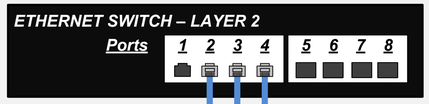
INT# 2180: E MAIN ST. AT JAMES RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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1000

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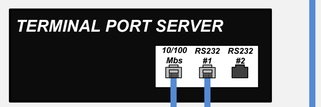
TRAFFIC SIGNAL CABINET ASSEMBLY



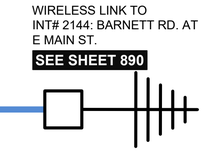
ETHERNET SWITCH PORT DESTINATION

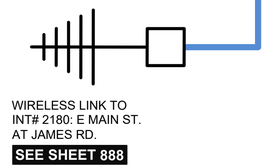
PORT 3: INT# 2180: E MAIN ST. AT JAMES RD.
SEE SHEET 888

PORT 4: INT# 2144: BARNETT RD. AT E MAIN ST.
SEE SHEET 890





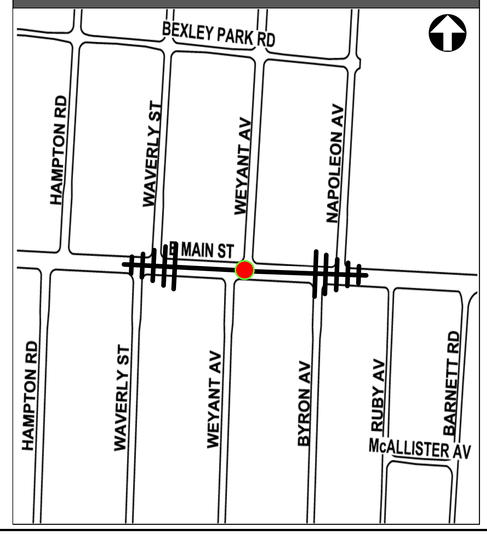




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2143

REFER TO SHEET 194 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

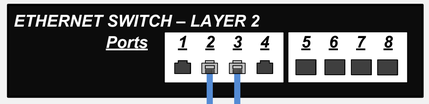
INT# 2143: E MAIN ST. AT WEYANT AVE.
COMMUNICATIONS DIAGRAM

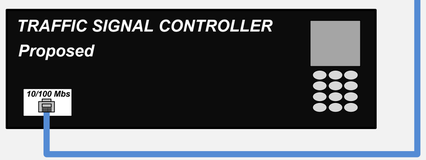
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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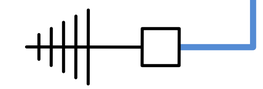
TRAFFIC SIGNAL CABINET ASSEMBLY





ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 2143: E MAIN ST. AT WEYANT AVE.
SEE SHEET 889

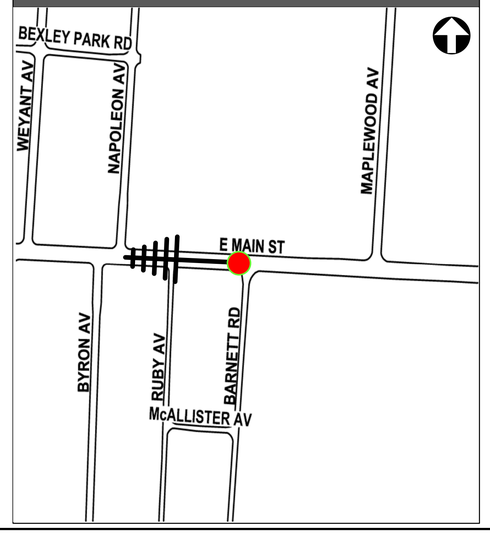


WIRELESS LINK TO
INT# 2143: E MAIN ST.
AT WEYANT AVE.
SEE SHEET 889

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2144

REFER TO SHEET 195 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2144: BARNETT RD. AT E MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

890
1000

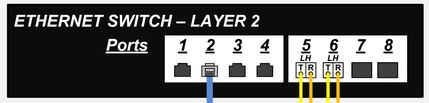
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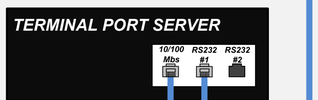
TRAFFIC SIGNAL CABINET ASSEMBLY

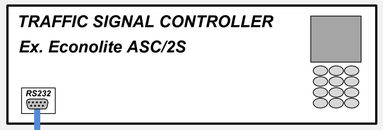
ETHERNET SWITCH PORT DESTINATION

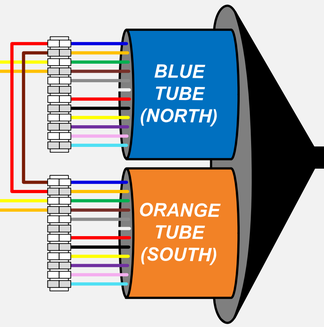
PORT 5: INT# 3076: E BROAD ST. AT HAMPTON RD.
SEE SHEET 883

PORT 6: INT# 2180: E MAIN ST. AT JAMES RD.
SEE SHEET 888

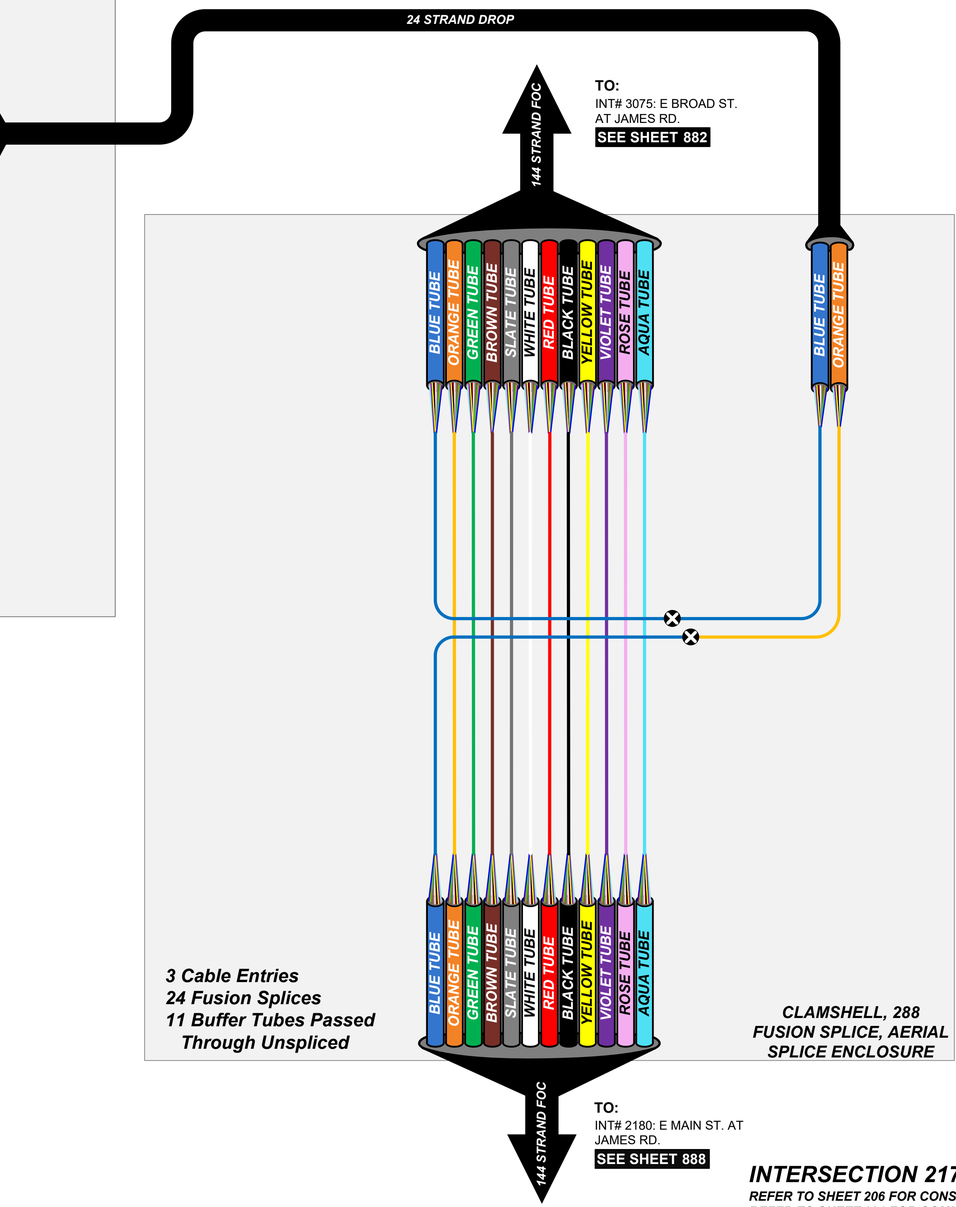








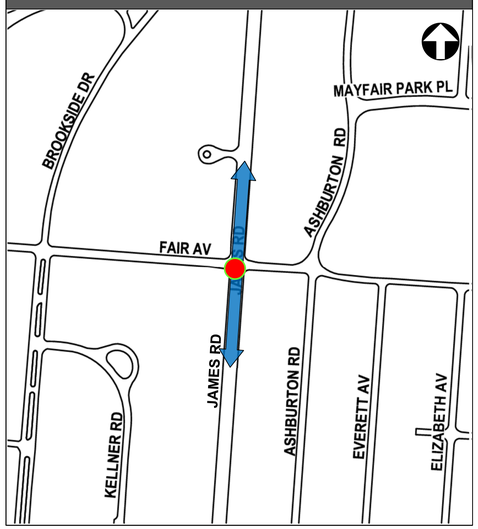
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2179: FAIR AVE. AT JAMES RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

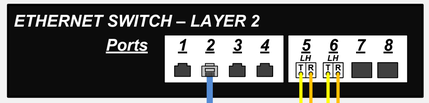
891
1000

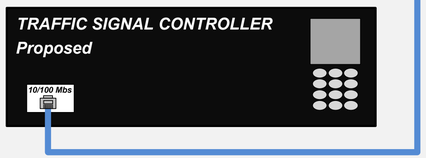
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INTERSECTION 2179

REFER TO SHEET 206 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

TRAFFIC SIGNAL CABINET ASSEMBLY

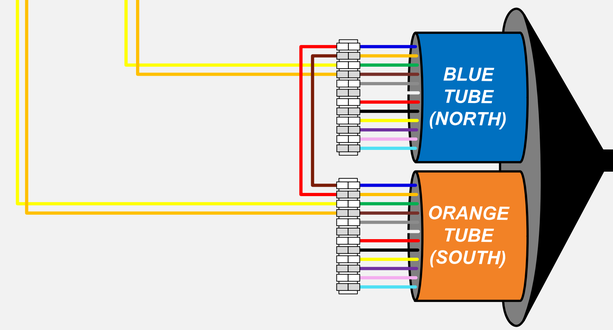




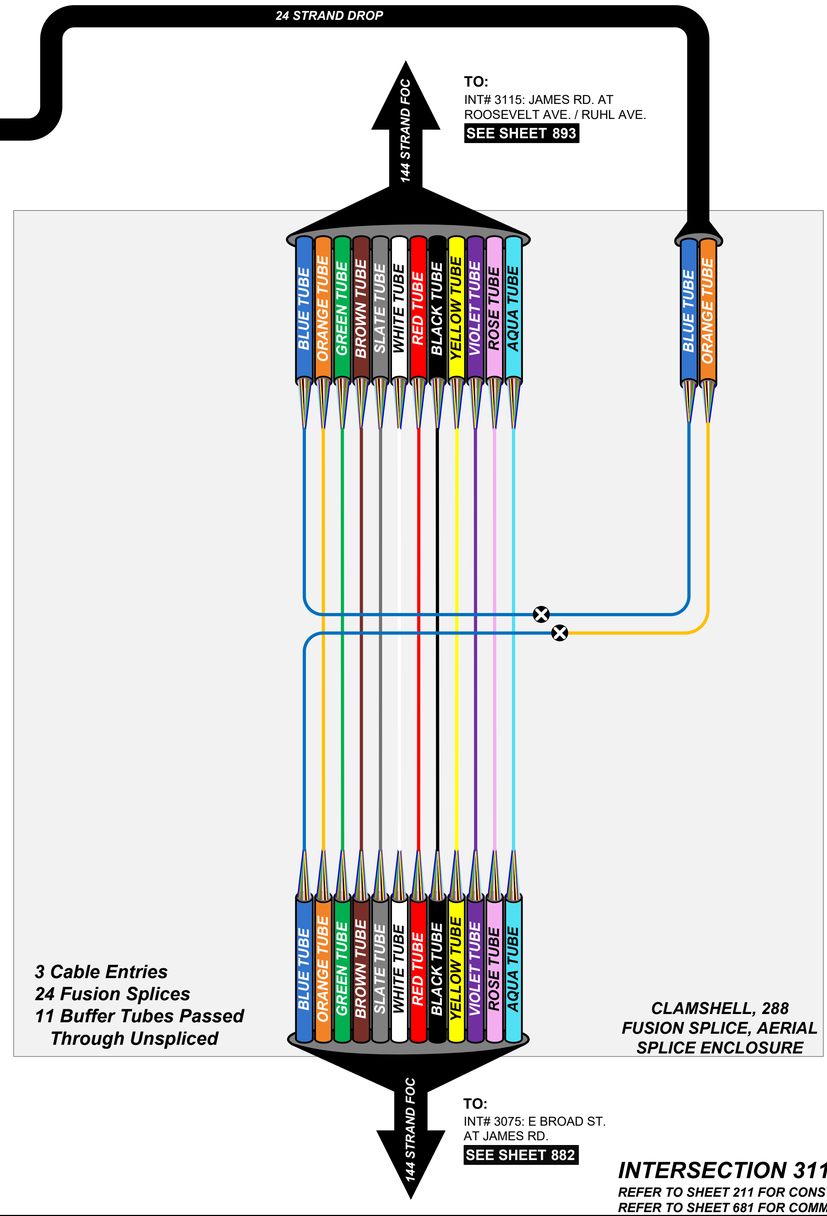
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3116: ALLEGHENY AVE. AT JAMES RD. / STELZER RD.
SEE SHEET 894

PORT 6: INT# 3077: E BROAD ST. AT WEYANT AVE.
SEE SHEET 884



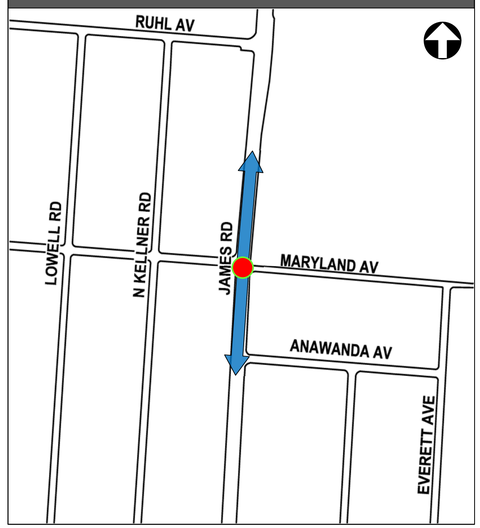
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3114

REFER TO SHEET 211 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3114: JAMES RD. AT MARYLAND AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

892
1000

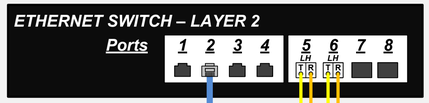
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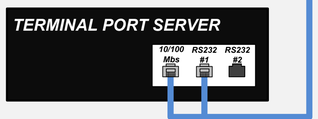
TRAFFIC SIGNAL CABINET ASSEMBLY

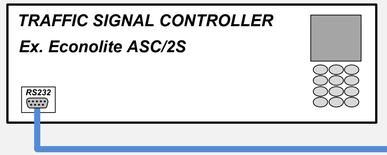
ETHERNET SWITCH PORT DESTINATION

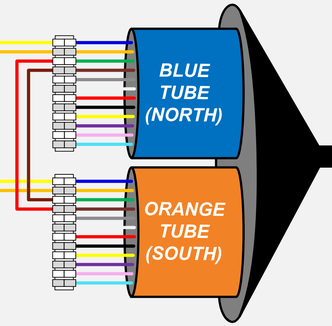
PORT 5: INT# 3117: SEVENTH AVE. AT STELZER RD.
SEE SHEET 895

PORT 6: INT# 3075: E BROAD ST. AT JAMES RD.
SEE SHEET 882

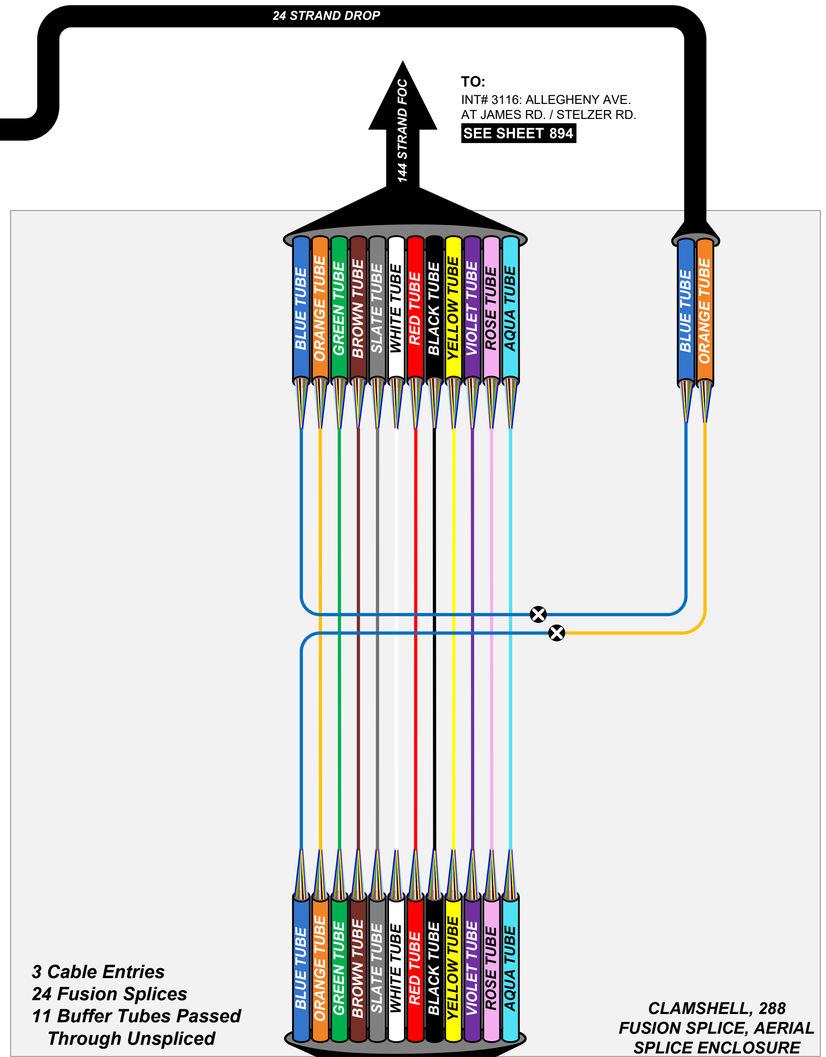








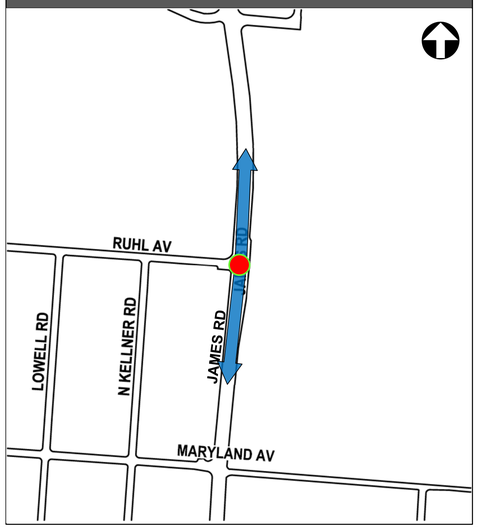
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3115

REFER TO SHEET 211 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3115: JAMES RD. AT ROOSEVELT AVE. / RUHL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

893
1000

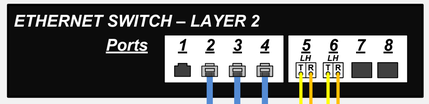
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TRAFFIC SIGNAL CABINET ASSEMBLY

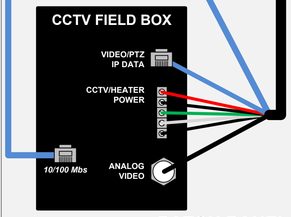
ETHERNET SWITCH PORT DESTINATION

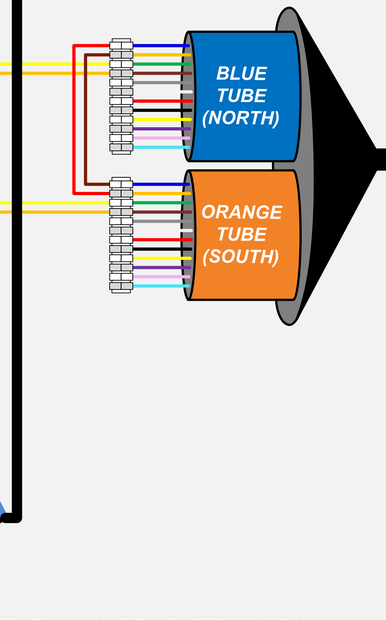
PORT 5: INT# 3103: AIRCENTER DR. AT STELZER RD.
SEE SHEET 896

PORT 6: INT# 3114: JAMES RD. AT MARYLAND AVE.
SEE SHEET 892



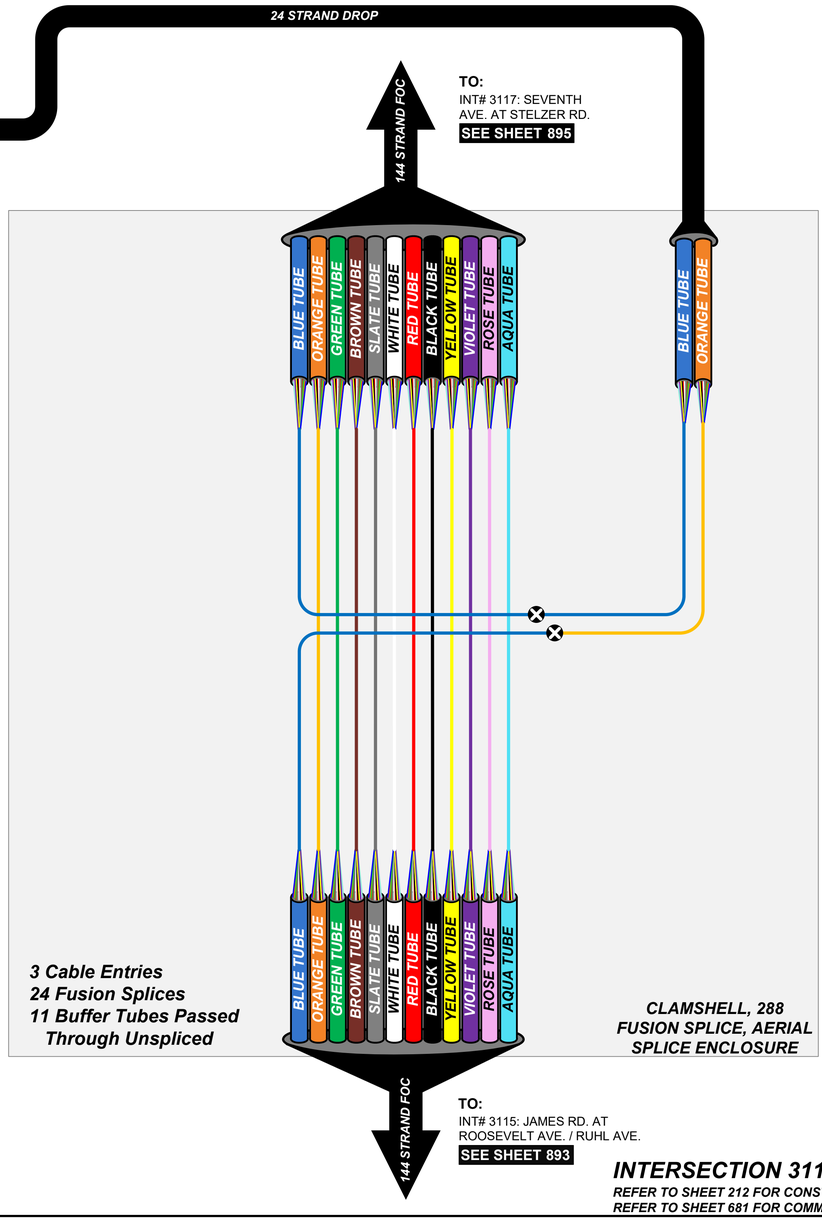






PATCH PANEL ENCLOSURE – 24 TERMINATION

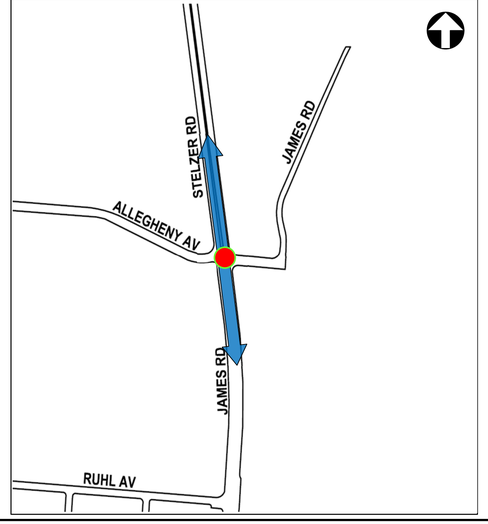




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3116

REFER TO SHEET 212 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

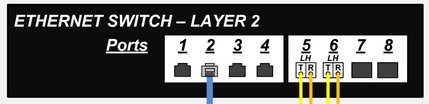
INT# 3116: ALLEGHENY AVE. AT JAMES RD. / STELZER RD.
COMMUNICATIONS DIAGRAM

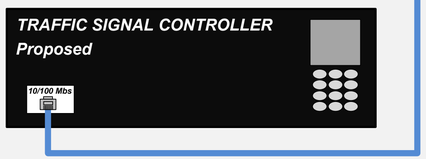
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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1000

J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\886-895.vsd - 3116 layout ~ last saved by: skoganti 3/31/2020 4:54:57 PM ~ printed: 3/31/2020 5:10:03 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

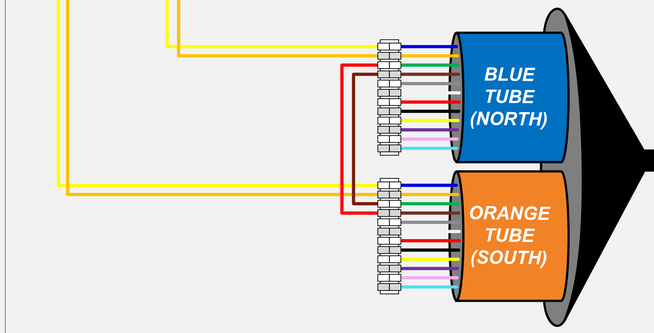




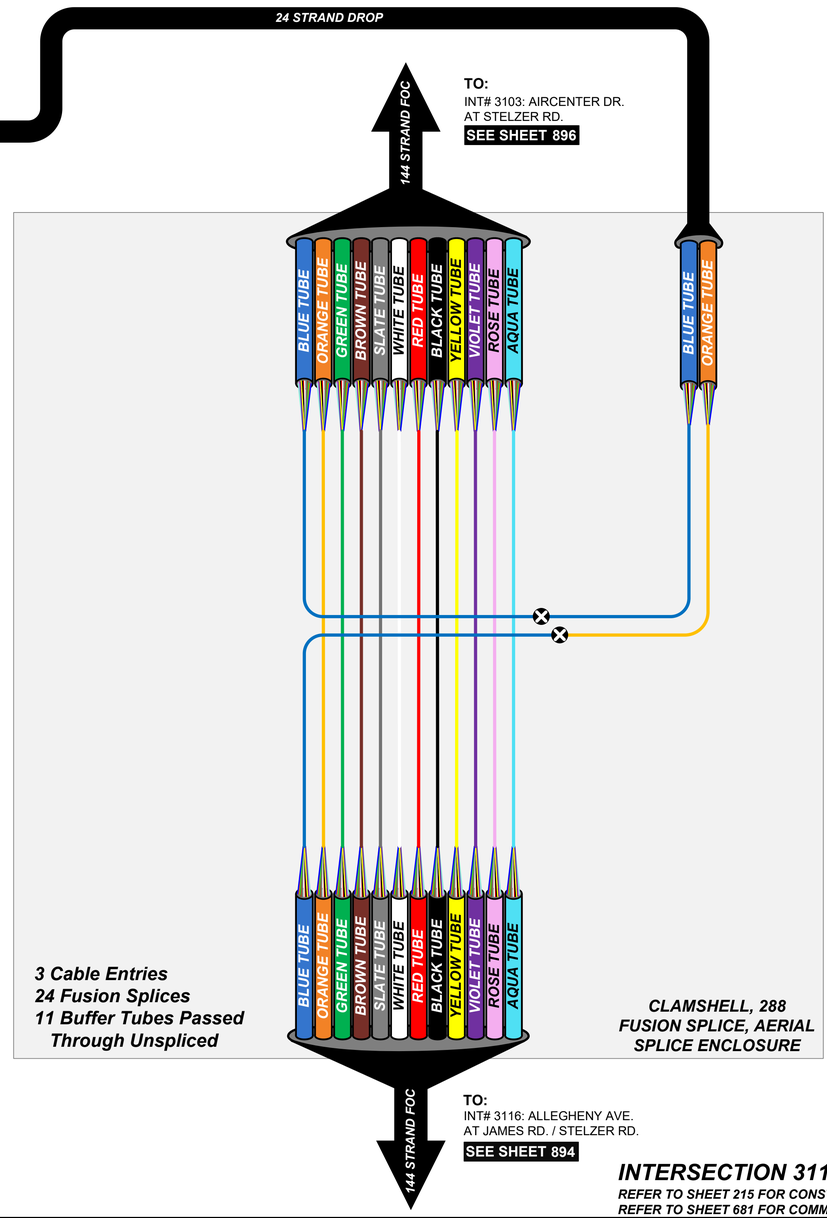
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3119: SEVENTEENTH AVE. AT STELZER RD.
SEE SHEET 897

PORT 6: INT# 3115: JAMES RD. AT ROOSEVELT AVE. / RUHL AVE.
SEE SHEET 893



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3103: AIRCENTER DR.
AT STELZER RD.
SEE SHEET 896

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

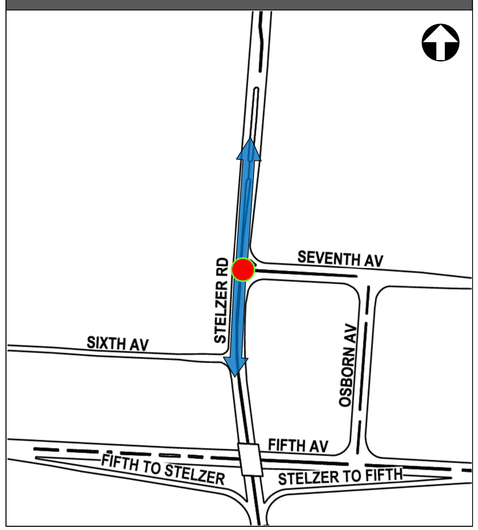
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 3116: ALLEGHENY AVE.
AT JAMES RD. / STELZER RD.
SEE SHEET 894

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3117

REFER TO SHEET 215 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3117: SEVENTH AVE. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

895
1000

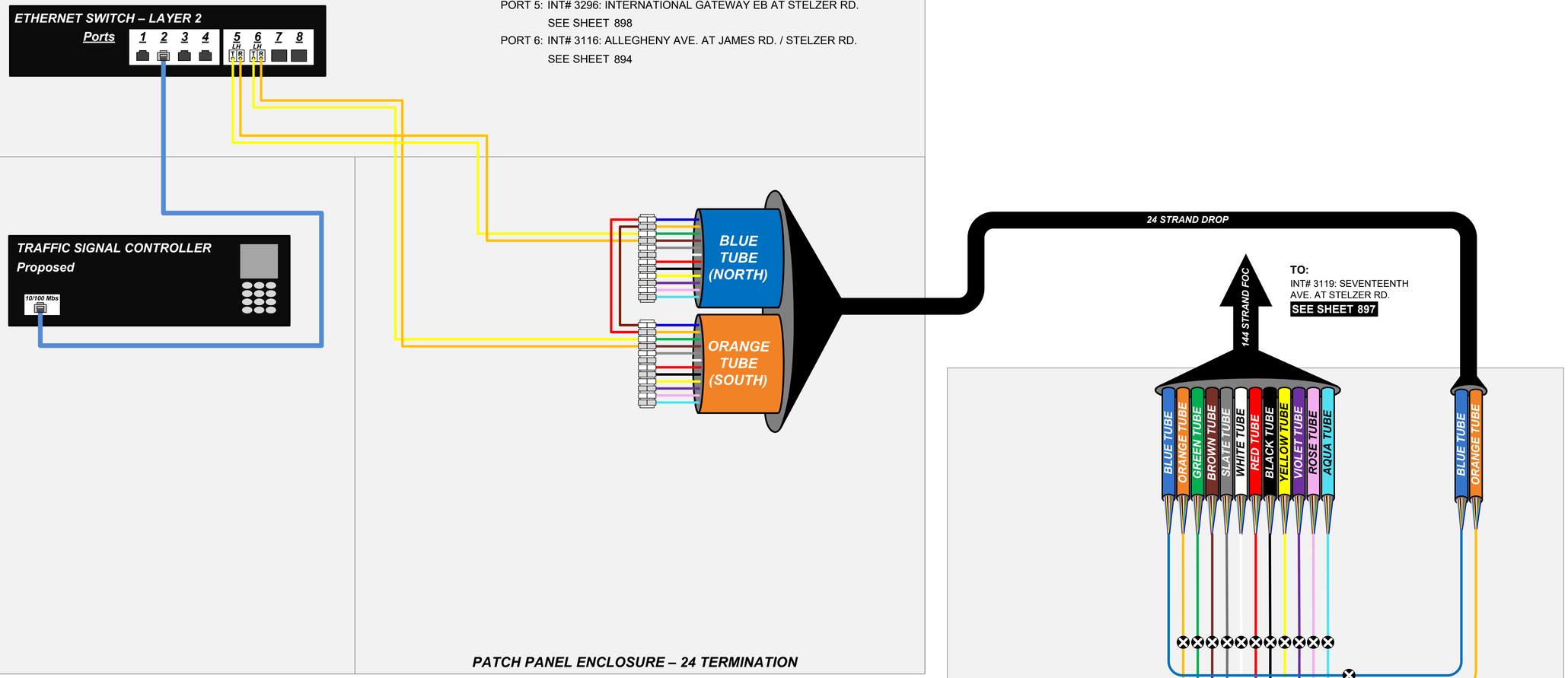
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3296: INTERNATIONAL GATEWAY EB AT STELZER RD.
SEE SHEET 898

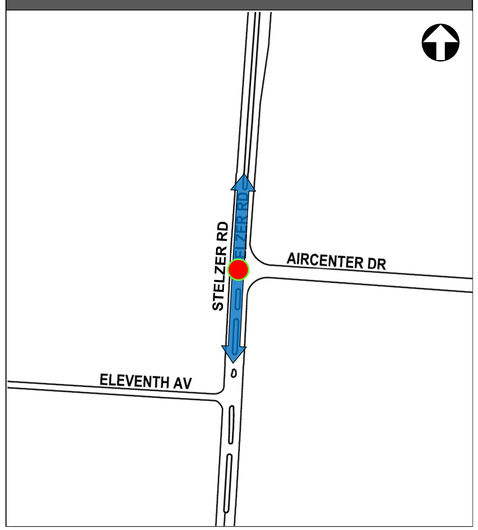
PORT 6: INT# 3116: ALLEGHENY AVE. AT JAMES RD. / STELZER RD.
SEE SHEET 894



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3103

REFER TO SHEET 217 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

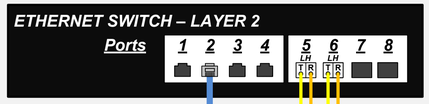
INT# 3103: AIRCENTER DR. AT STELZER RD.
COMMUNICATIONS DIAGRAM

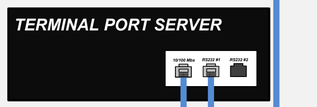
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

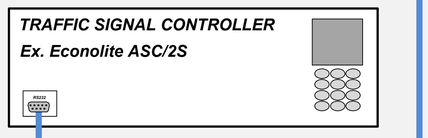
896
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TRAFFIC SIGNAL CABINET ASSEMBLY



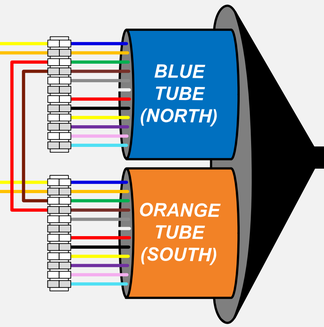


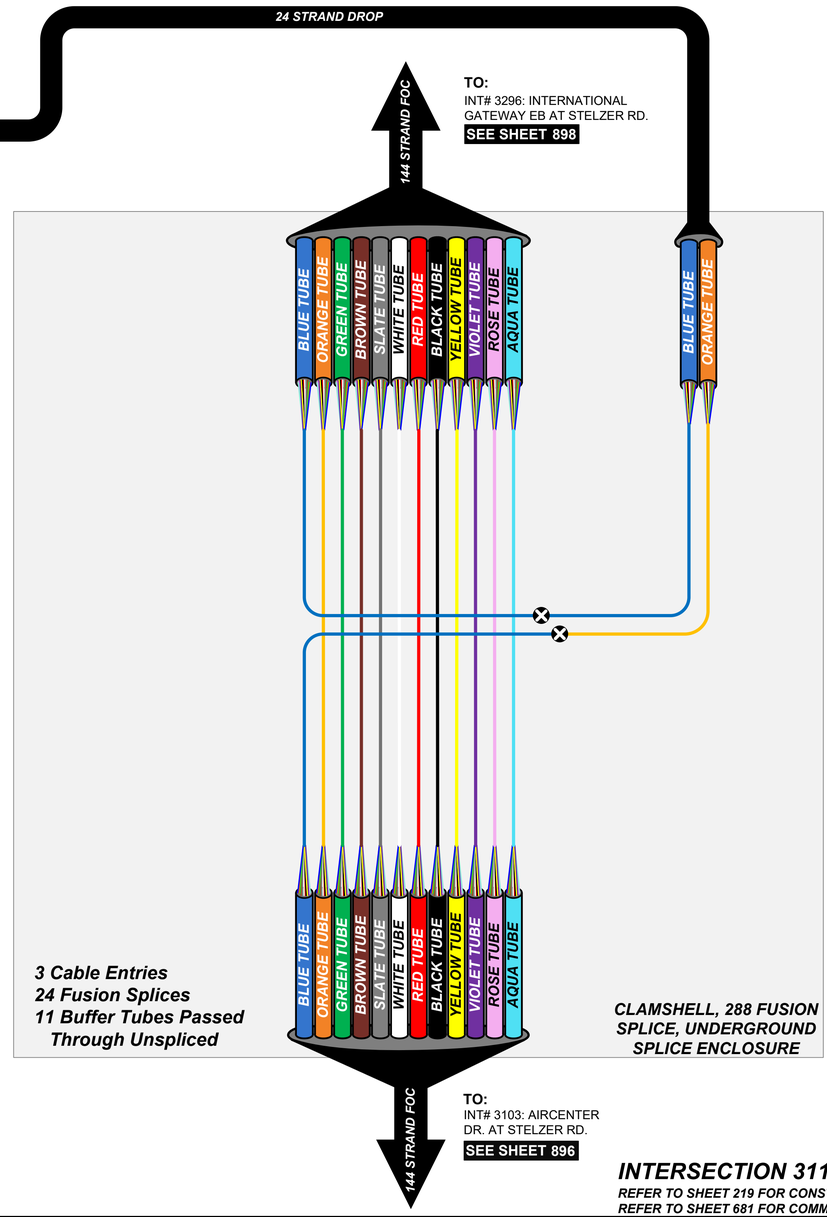


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3297: INTERNATIONAL GATEWAY WB AT STELZER RD.
SEE SHEET 899

PORT 6: INT# 3117: SEVENTH AVE. AT STELZER RD.
SEE SHEET 895



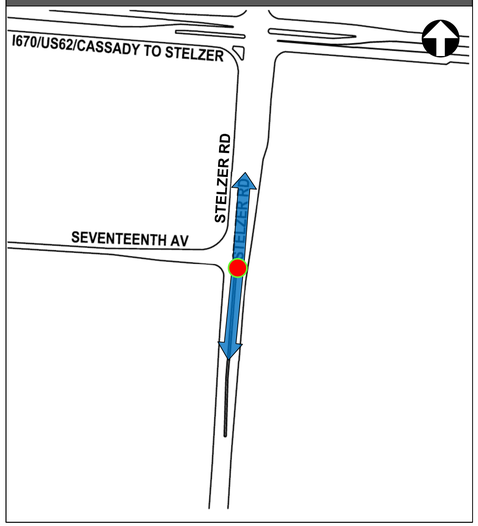


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3119

REFER TO SHEET 219 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3119: SEVENTEENTH AVE. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

897
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2
Ports 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S
RS232

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4295: JOHNSTOWN RD. AT STELZER RD.
SEE SHEET 900

PORT 6: INT# 3103: AIRCENTER DR. AT STELZER RD.
SEE SHEET 896

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING CCTV CABINET AT INTERNATIONAL GATEWAY AND STELZER RD

ETHERNET SWITCH – LAYER 2
Ports 1 2 3 4 5 6 7 8

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

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

TO:
INT# 3297: INTERNATIONAL GATEWAY WB AT STELZER RD.
SEE SHEET 899

144 STRAND FOC

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

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

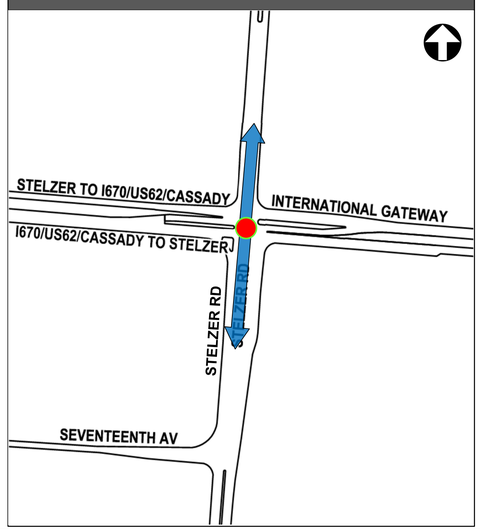
144 STRAND FOC

TO:
INT# 3119: SEVENTEENTH AVE. AT STELZER RD.
SEE SHEET 897

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3296

REFER TO SHEET 220 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3296: INTERNATIONAL GATEWAY EB AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

898
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 670009.0: IR-670 AT STELZER RD.
SEE SHEET 960

PORT 6: INT# 3119: SEVENTEENTH AVE. AT STELZER RD.
SEE SHEET 897

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

TERMINAL PORT SERVER

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

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S

RS232

CCTV FIELD BOX

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

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

144 STRAND FOC

TO:
INT# SIG4295: JOHNSTOWN RD. AT STELZER RD.
SEE SHEET 900

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***

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

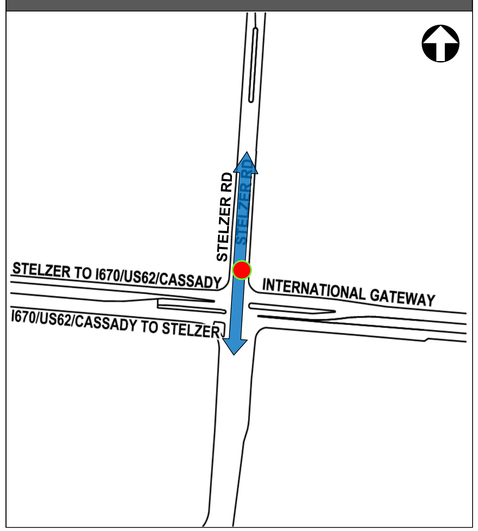
144 STRAND FOC

TO:
INT# 3296: INTERNATIONAL GATEWAY EB AT STELZER RD.
SEE SHEET 898

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3297
REFER TO SHEET 222 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

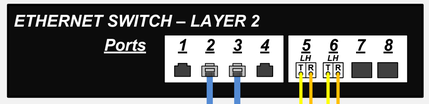
INT# 3297: INTERNATIONAL GATEWAY WB AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

899
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TRAFFIC SIGNAL CABINET ASSEMBLY

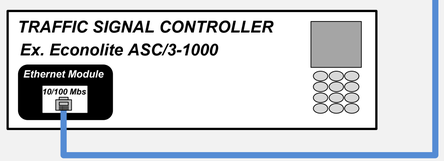


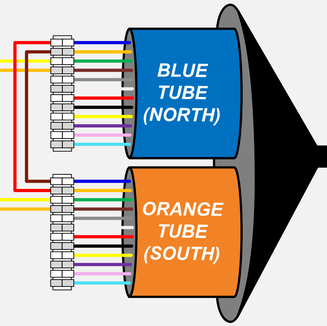
ETHERNET SWITCH PORT DESTINATION

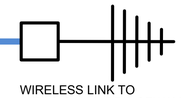
PORT 3: INT# SIG4900: BRIDGEWAY AVE. AT JOHNSTOWN RD.
SEE SHEET 736

PORT 5: PROPOSED COMMUNICATION NODE# 670009.0: IR-670 AT STELZER RD.
SEE SHEET 960

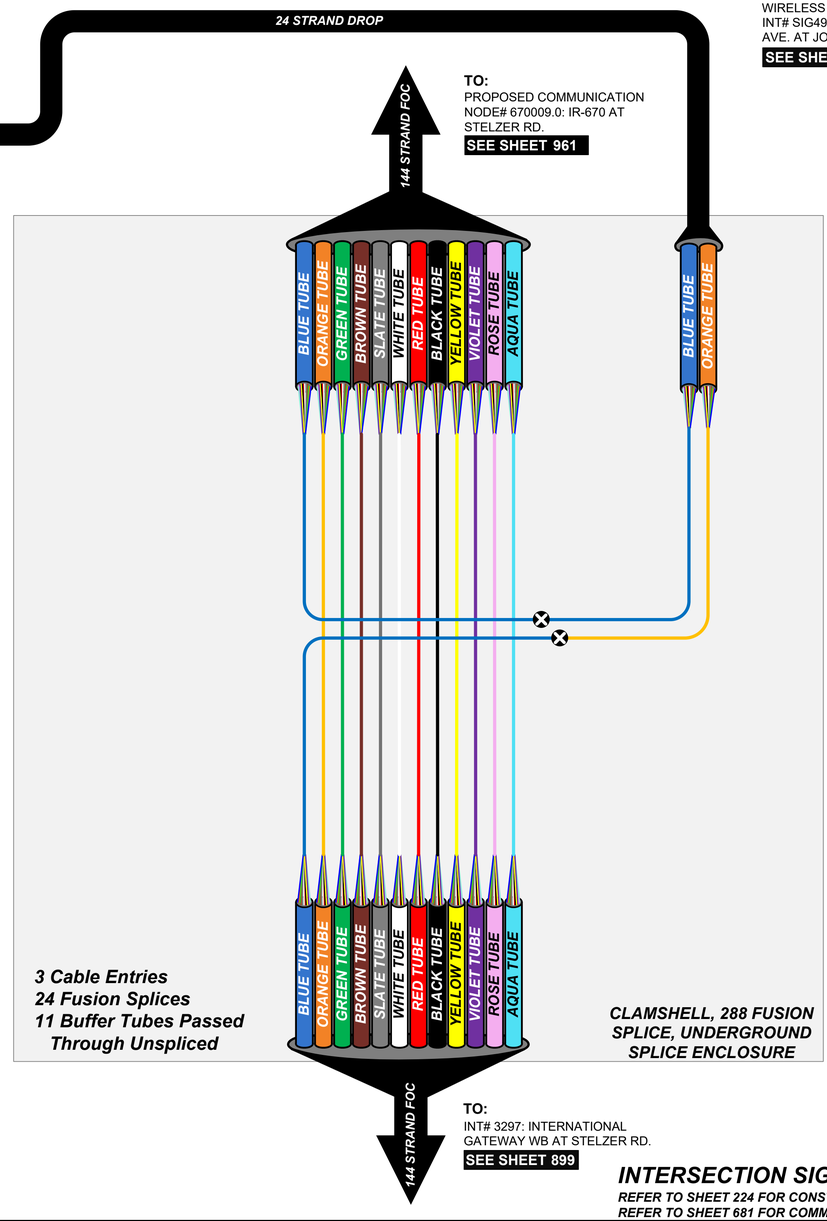
PORT 6: INT# 3296: INTERNATIONAL GATEWAY EB AT STELZER RD.
SEE SHEET 898







WIRELESS LINK TO INT# SIG4900: BRIDGEWAY AVE. AT JOHNSTOWN RD.
SEE SHEET 901



TO:
PROPOSED COMMUNICATION NODE# 670009.0: IR-670 AT STELZER RD.
SEE SHEET 961

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

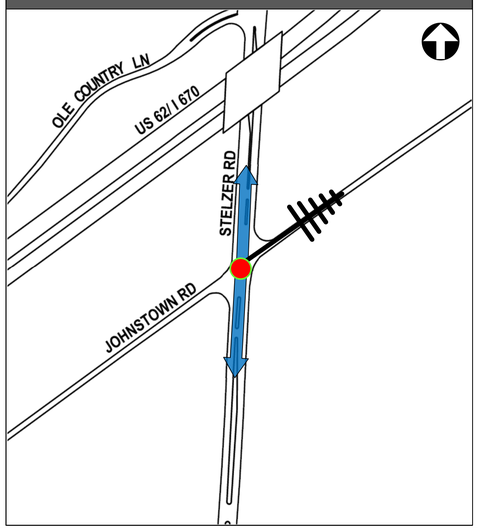
TO:
INT# 3297: INTERNATIONAL GATEWAY WB AT STELZER RD.
SEE SHEET 899

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4295

REFER TO SHEET 224 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

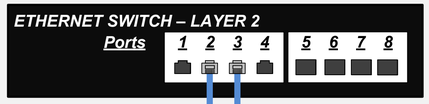
INT# SIG4295: JOHNSTOWN RD. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

900
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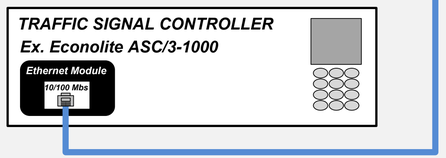
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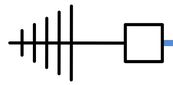
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# SIG4295: JOHNSTOWN RD. AT STELZER RD.
SEE SHEET 900



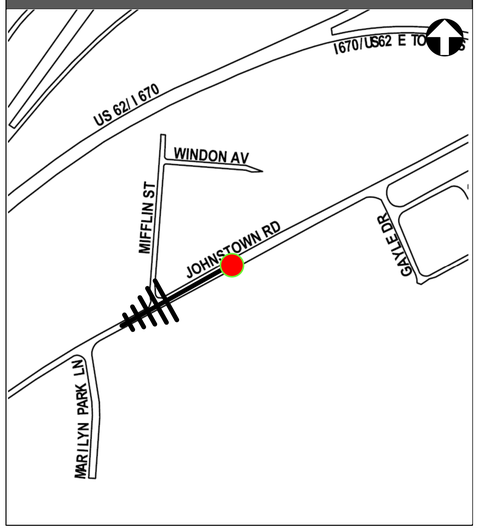


WIRELESS LINK TO
INT# SIG4295: JOHNSTOWN
RD. AT STELZER RD.
SEE SHEET 900

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4900
REFER TO SHEET 228 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# SIG4900: BRIDGEWAY AVE. AT JOHNSTOWN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

901
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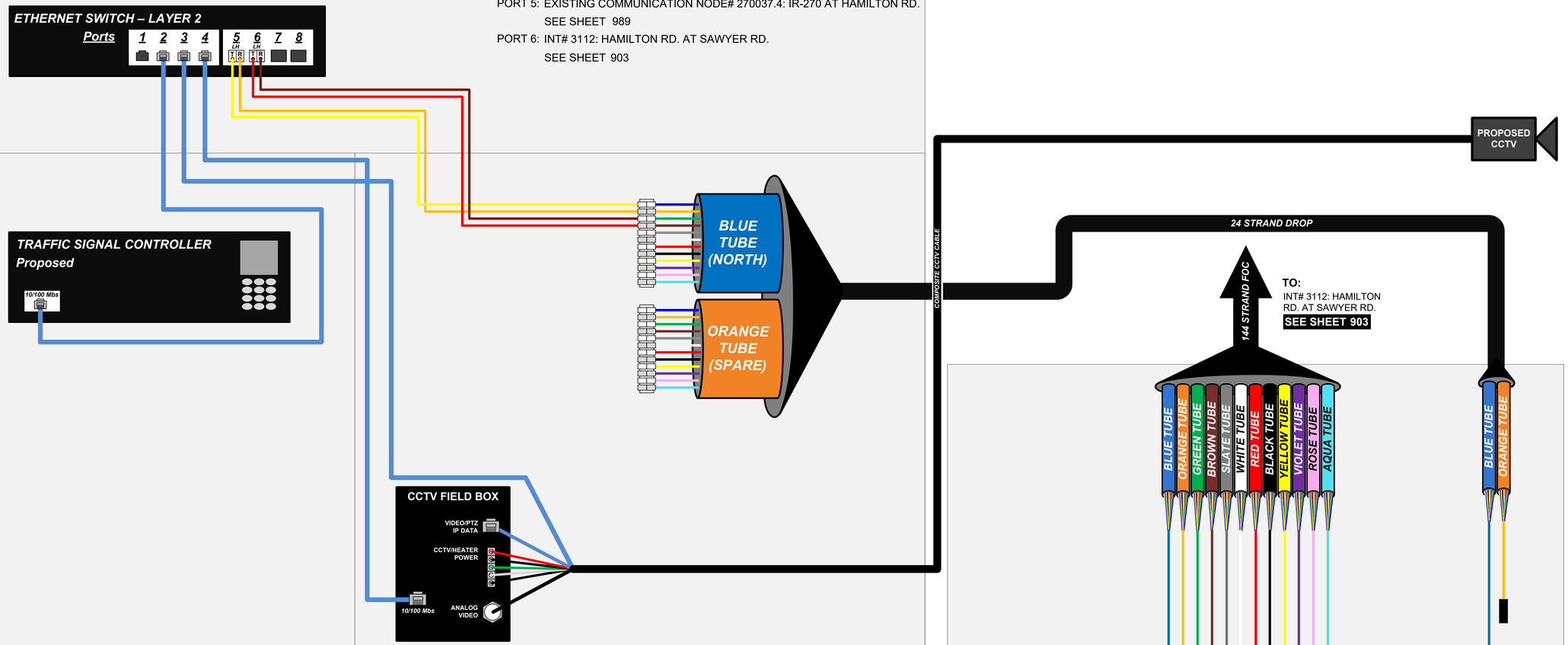
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270037.4: IR-270 AT HAMILTON RD.
SEE SHEET 989

PORT 6: INT# 3112: HAMILTON RD. AT SAWYER RD.
SEE SHEET 903

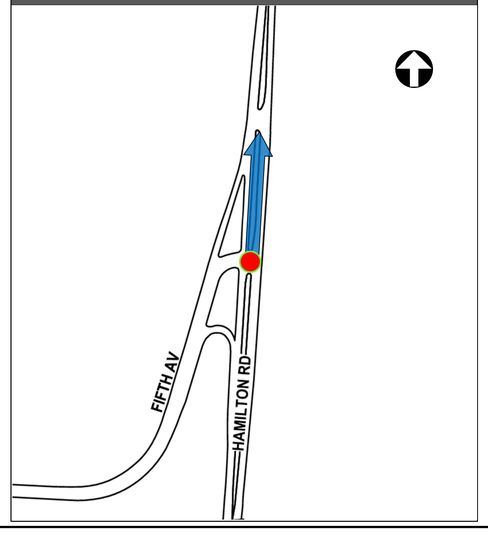


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3111

REFER TO SHEET 242 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

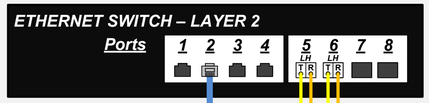
INT# 3111: FIFTH AVE. AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

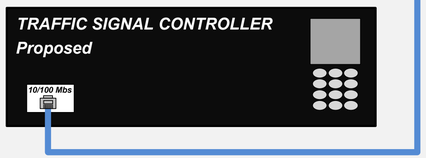
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

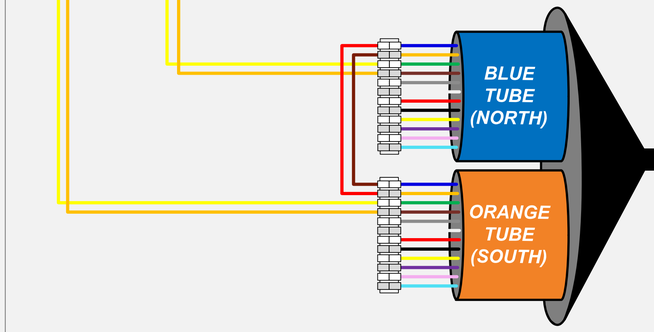




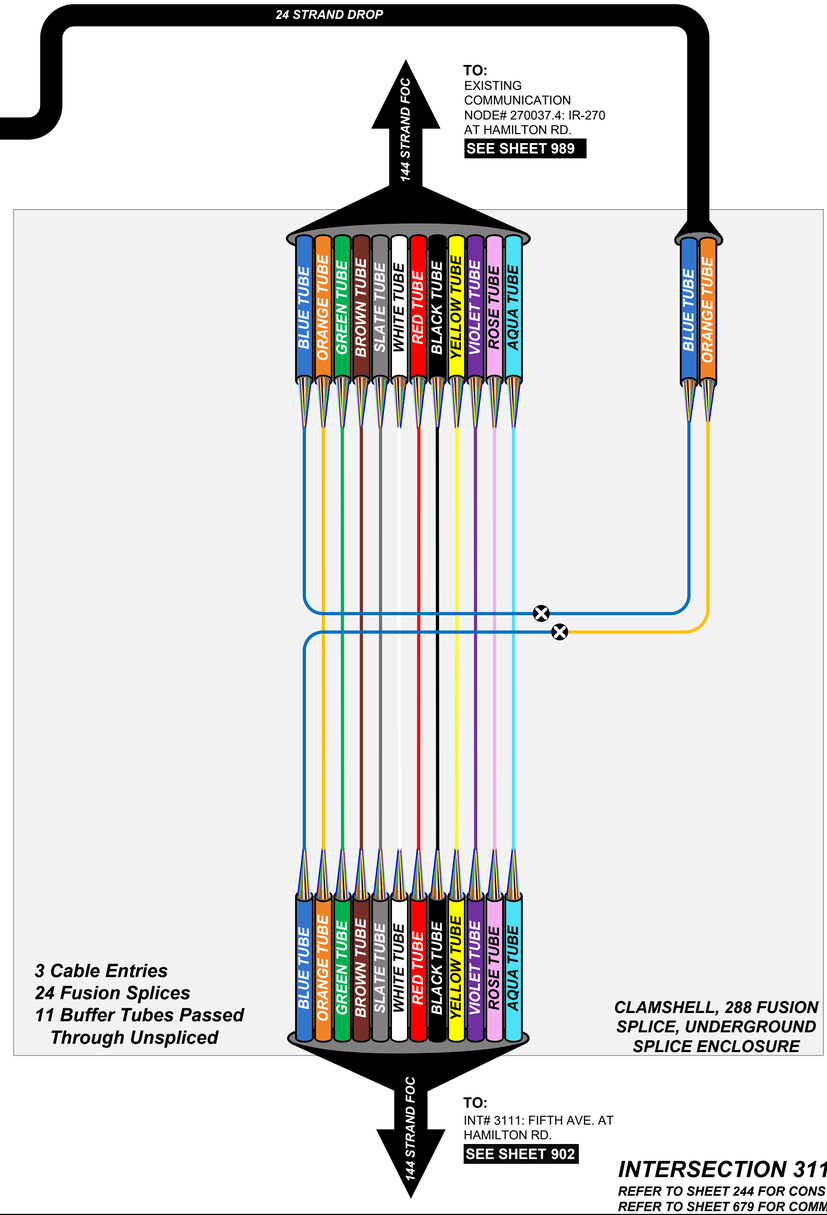
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270037.4: IR-270 AT HAMILTON RD.
SEE SHEET 989

PORT 6: INT# 3111: FIFTH AVE. AT HAMILTON RD.
SEE SHEET 902



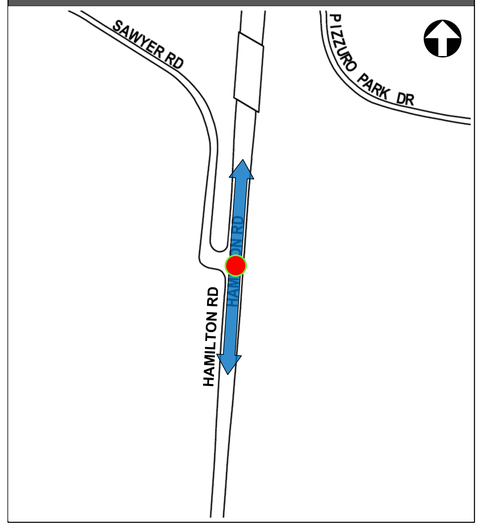
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3112

REFER TO SHEET 244 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3112: HAMILTON RD. AT SAWYER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

903
1000

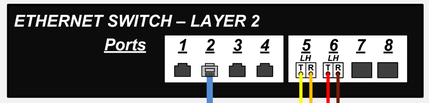
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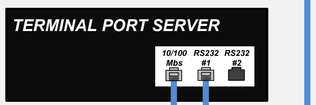
TRAFFIC SIGNAL CABINET ASSEMBLY

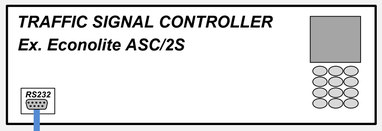
ETHERNET SWITCH PORT DESTINATION

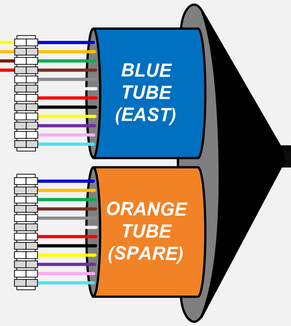
PORT 5: EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.
SEE SHEET 991

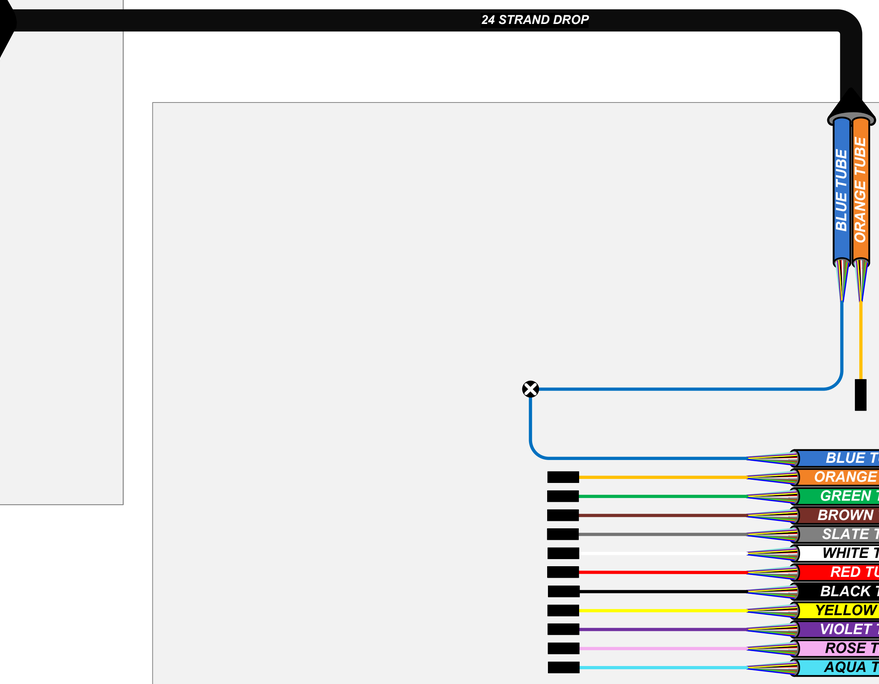
PORT 6: INT# 3079: E BROAD ST. AT NOE-BIXBY RD.
SEE SHEET 905











PATCH PANEL ENCLOSURE – 24 TERMINATION

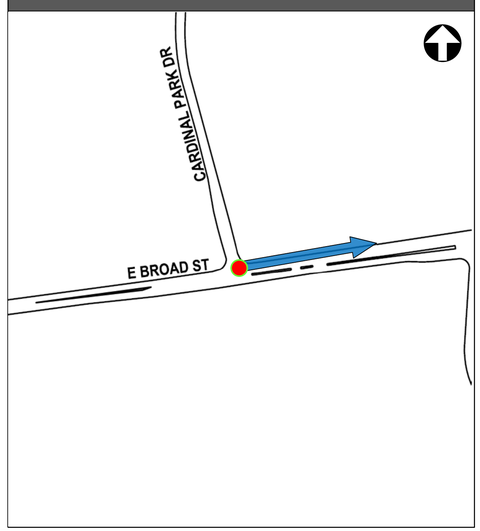
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3204

REFER TO SHEET 238 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3204: CARDINAL PARK DR. AT E BROAD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

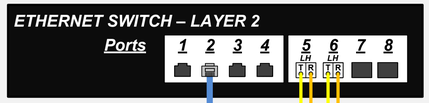
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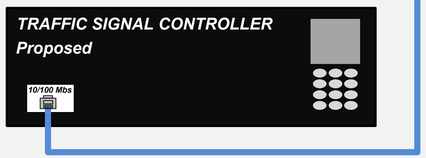
TRAFFIC SIGNAL CABINET ASSEMBLY

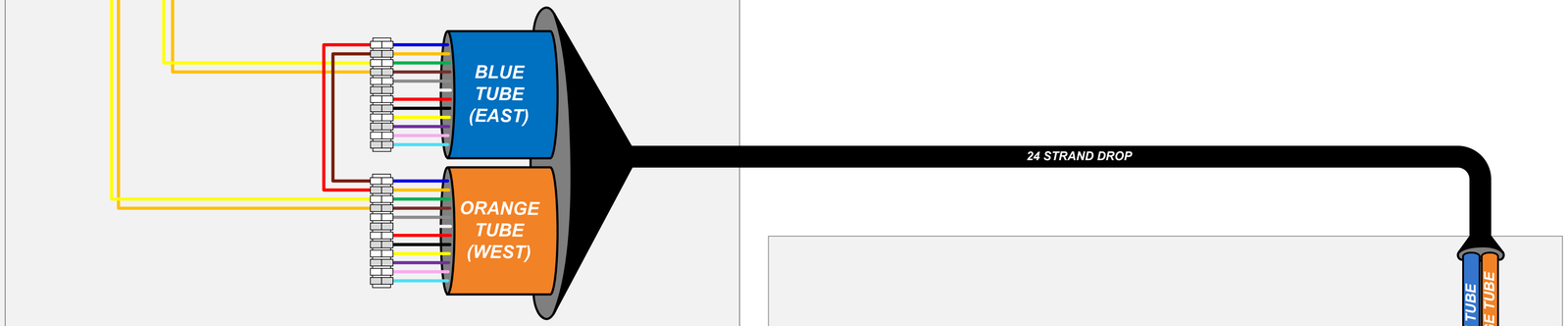
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.
SEE SHEET 991

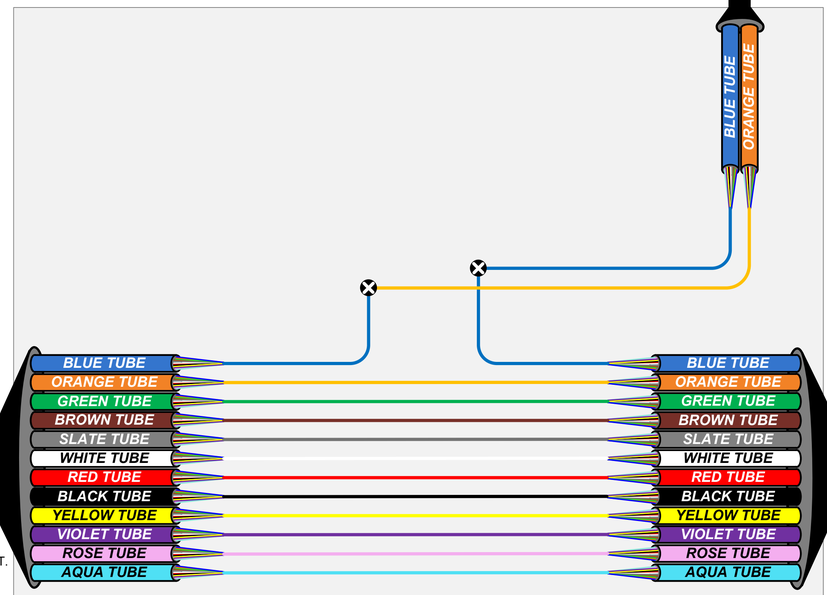
PORT 6: INT# 3204: CARDINAL PARK DR. AT E BROAD ST.
SEE SHEET 904







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3204: CARDINAL PARK DR. AT E BROAD ST.
SEE SHEET 904

TO:
EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.
SEE SHEET 991

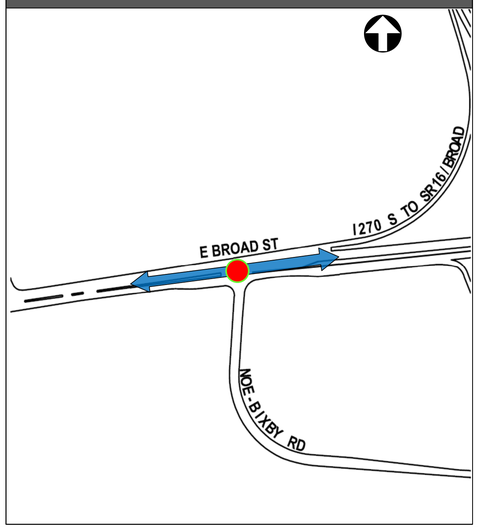
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3079

REFER TO SHEET 239 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 3079: E BROAD ST. AT NOE-BIXBY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

905
1000

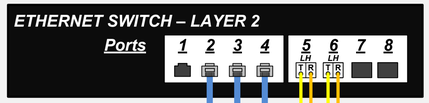
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TRAFFIC SIGNAL CABINET ASSEMBLY

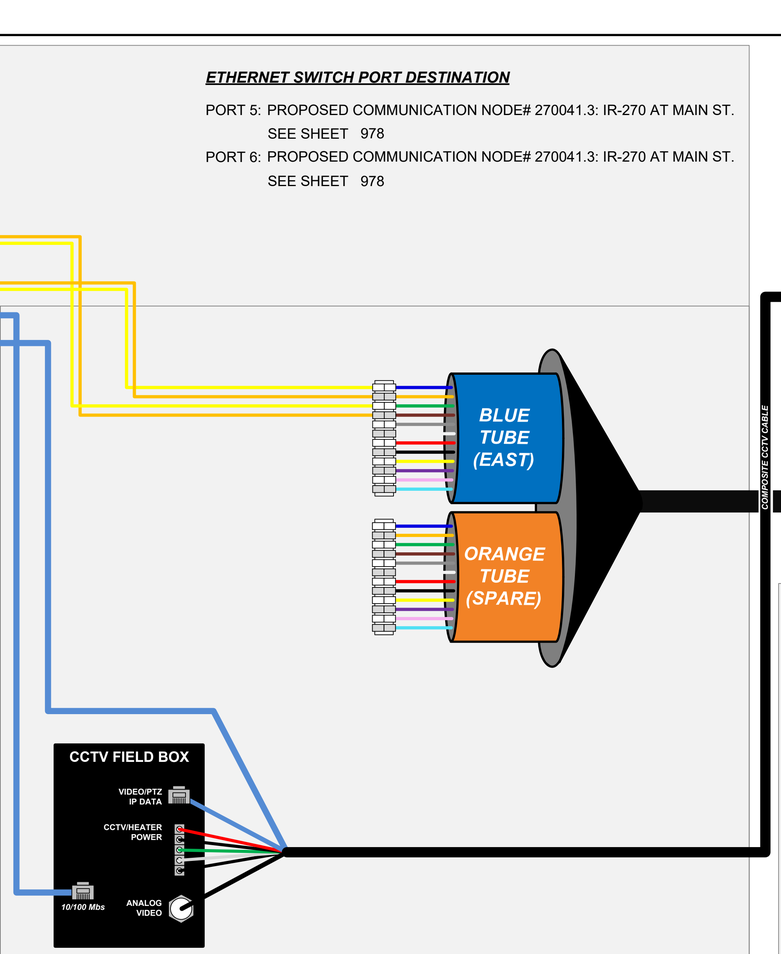
ETHERNET SWITCH PORT DESTINATION

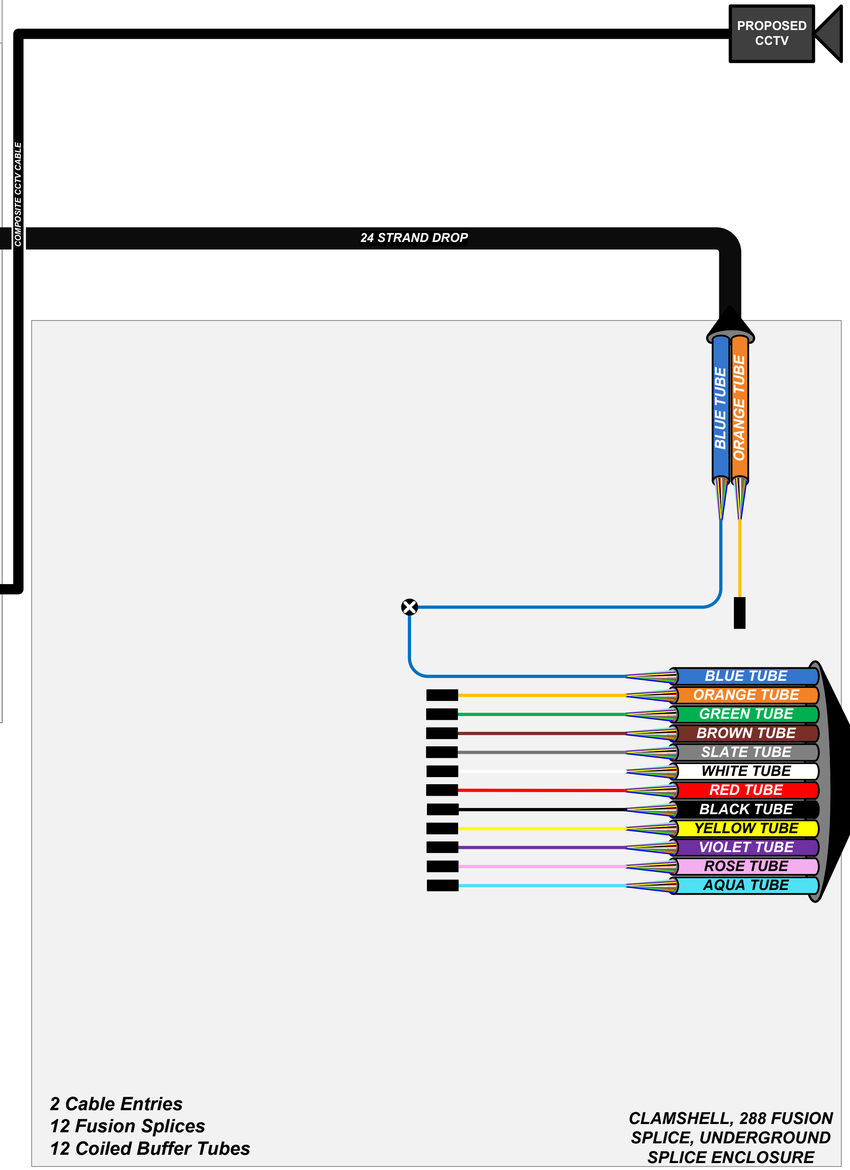
PORT 5: PROPOSED COMMUNICATION NODE# 270041.3: IR-270 AT MAIN ST.
SEE SHEET 978

PORT 6: PROPOSED COMMUNICATION NODE# 270041.3: IR-270 AT MAIN ST.
SEE SHEET 978









PATCH PANEL ENCLOSURE – 24 TERMINATION

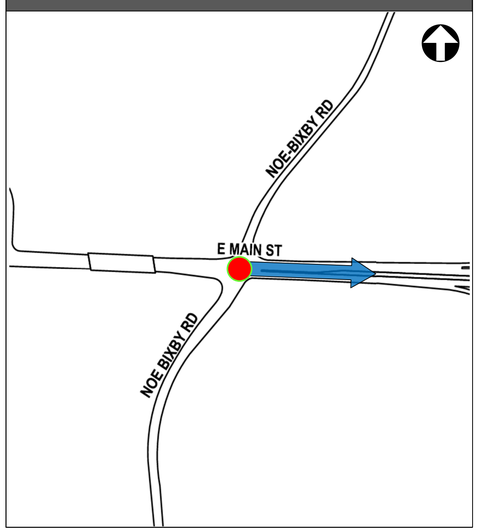
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2163

REFER TO SHEET 230 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

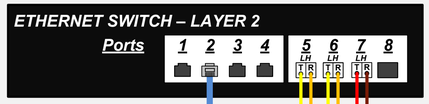
INT# 2163: E MAIN ST. AT NOE-BIXBY RD.
COMMUNICATIONS DIAGRAM

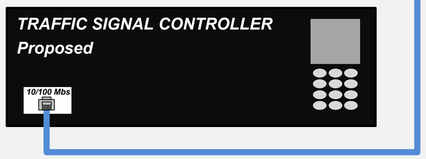
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

906
1000

J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\896-906.vsd - 2163 layout ~ last saved by: skoganti 3/31/2020 4:55:28 PM ~ printed: 3/31/2020 5:10:16 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



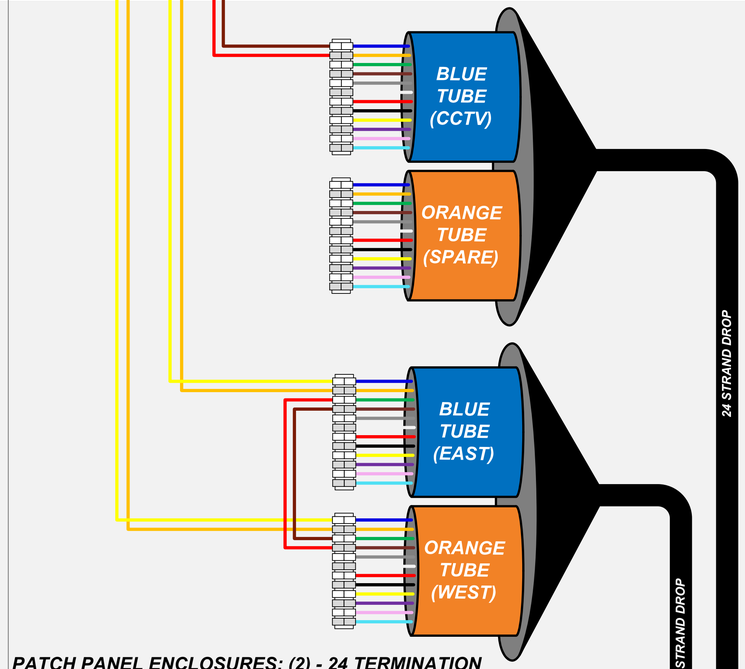


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2187: E MAIN ST. AT MAIN I-270 CENTRE
SEE SHEET 909

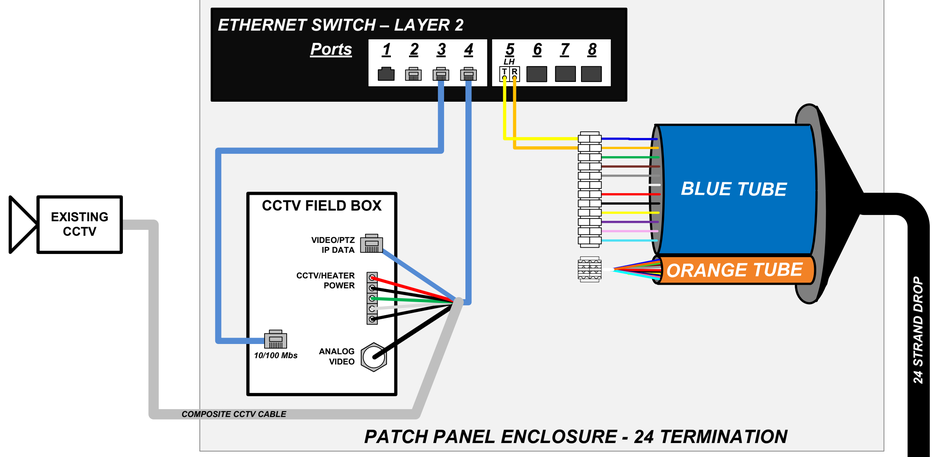
PORT 6: PROPOSED COMMUNICATION NODE# 270041.3: IR-270 AT MAIN ST.
SEE SHEET 978

PORT 7: EXISTING CCTV: MAIN ST AT I-270 SB ON RAMP
SEE THIS SHEET

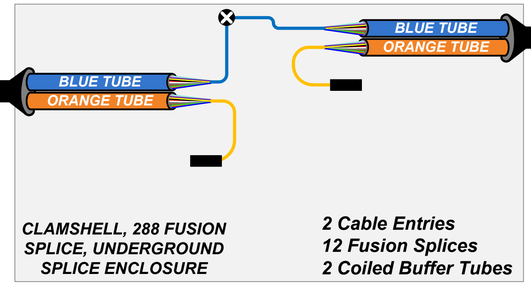


PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

EXISTING CCTV CABINET AT MAIN ST. AND I-270 SB ON RAMP



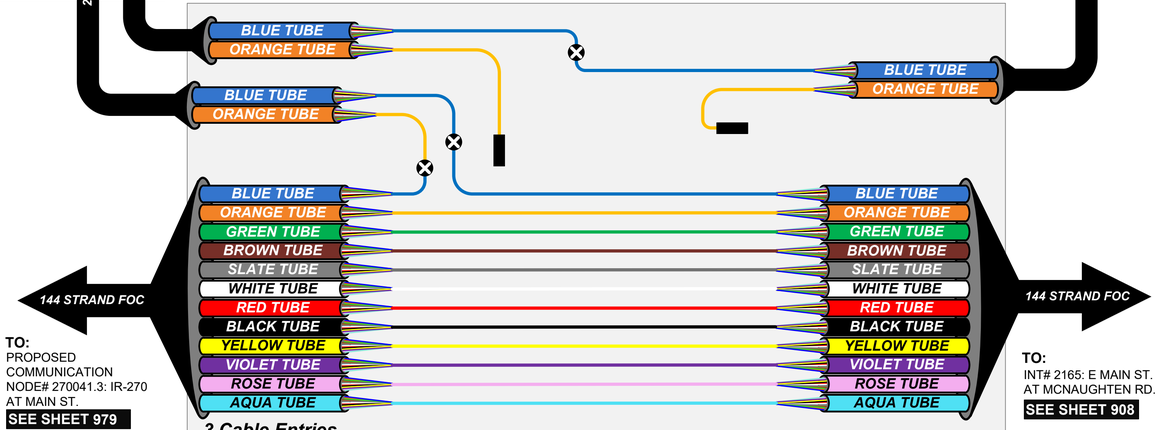
PATCH PANEL ENCLOSURE - 24 TERMINATION



CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

2 Cable Entries
12 Fusion Splices
2 Coiled Buffer Tubes

24 STRAND



TO:
PROPOSED COMMUNICATION NODE# 270041.3: IR-270 AT MAIN ST.
SEE SHEET 979

3 Cable Entries
36 Fusion Splices
2 Coiled Buffer Tubes
11 Buffer Tubes Passed Through Unspliced

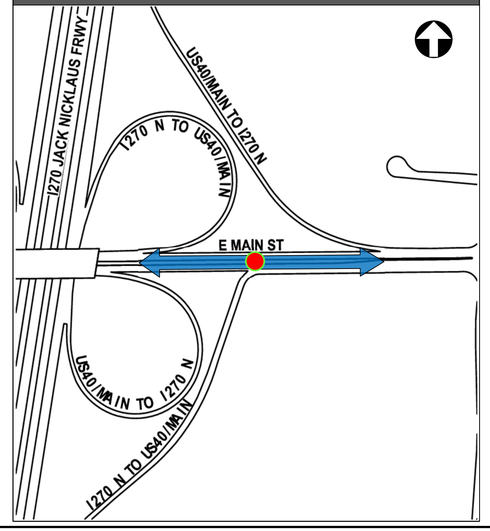
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 2165: E MAIN ST. AT MCNAUGHTEN RD.
SEE SHEET 908

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2164

REFER TO SHEET 234 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2164: E MAIN ST. AT I-270 NB OFF RAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

907
1000

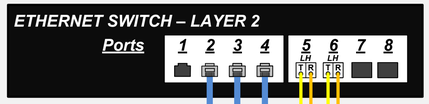
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TRAFFIC SIGNAL CABINET ASSEMBLY

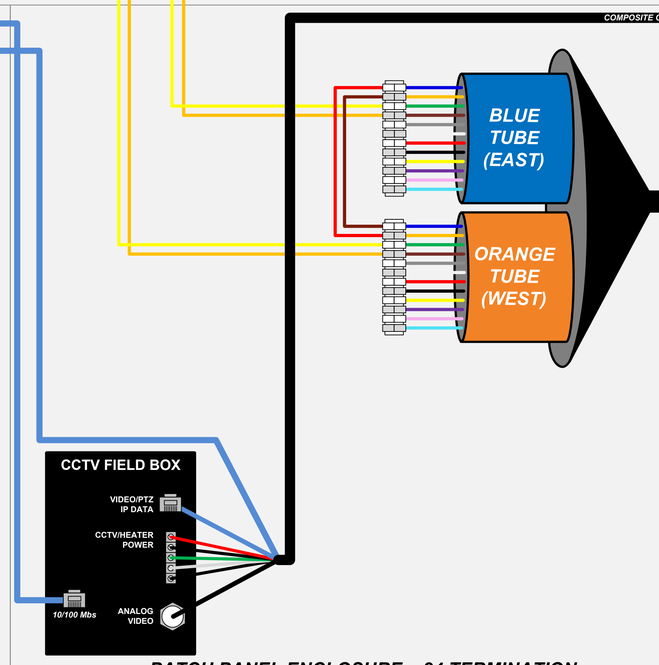
ETHERNET SWITCH PORT DESTINATION

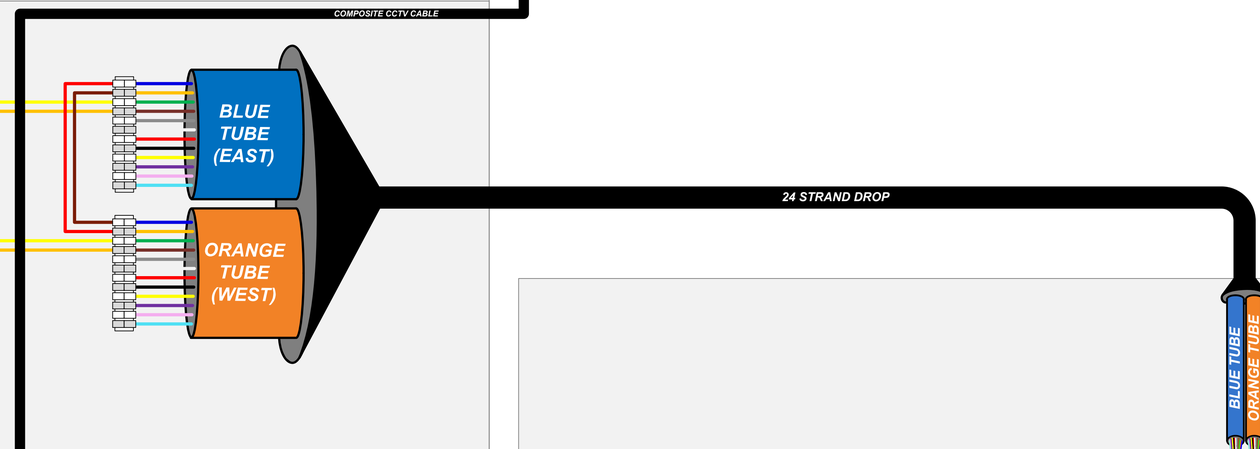
PORT 5: INT# 2187: E MAIN ST. AT MAIN I-270 CENTRE
SEE SHEET 909

PORT 6: PROPOSED COMMUNICATION NODE# 270041.3: IR-270 AT MAIN ST.
SEE SHEET 978

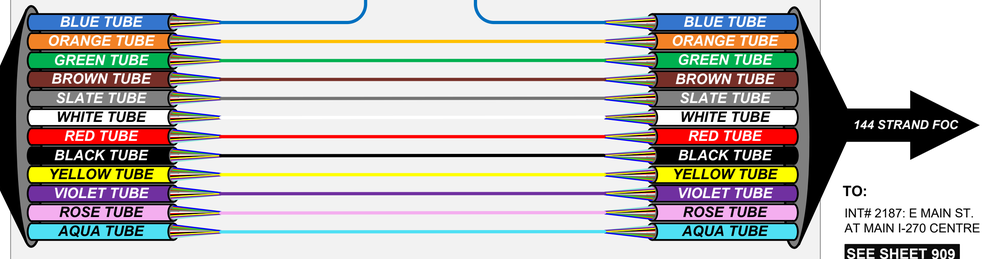








PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2164: E MAIN ST.
AT I-270 NB OFF RAMP
SEE SHEET 907

TO:
INT# 2187: E MAIN ST.
AT MAIN I-270 CENTRE
SEE SHEET 909

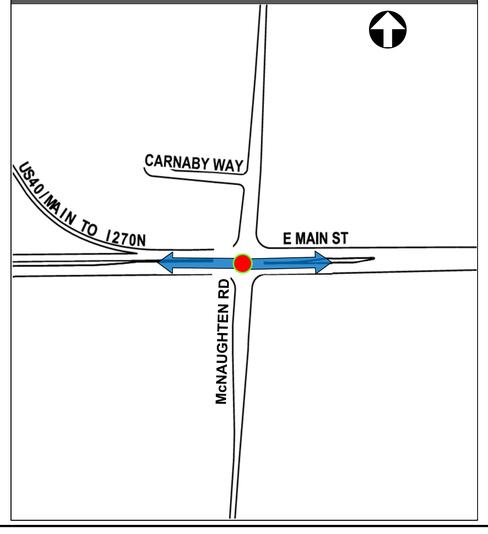
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2165
REFER TO SHEET 235 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

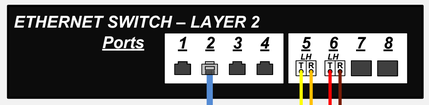
CIP: 540007 - 100006
PID NUMBER: 82573

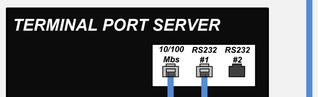
INT# 2165: E MAIN ST. AT MCNAUGHTEN RD.
COMMUNICATIONS DIAGRAM

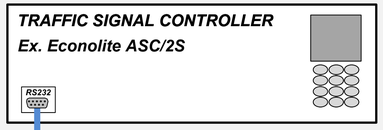
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY



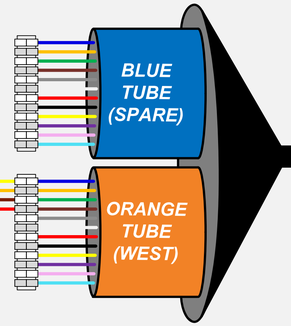




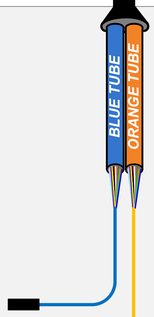
ETHERNET SWITCH PORT DESTINATION

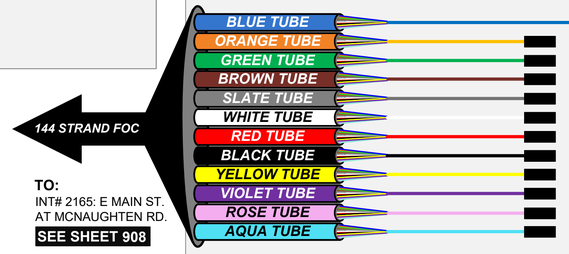
PORT 5: INT# 2164: E MAIN ST. AT I-270 NB OFF RAMP
SEE SHEET 907

PORT 6: INT# 2165: E MAIN ST. AT MCNAUGHTEN RD.
SEE SHEET 908









TO:
INT# 2165: E MAIN ST.
AT MCNAUGHTEN RD.
SEE SHEET 908

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

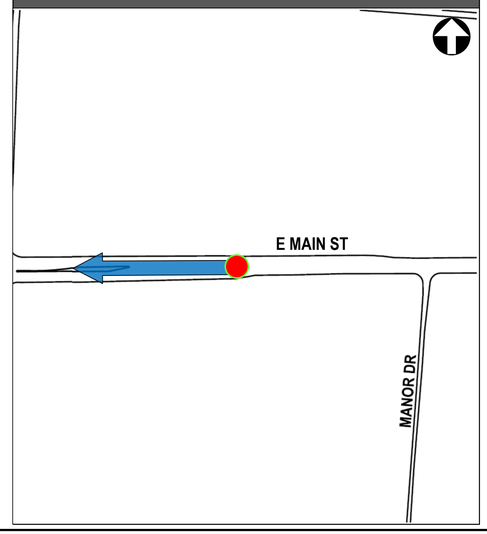
CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2187
REFER TO SHEET 236 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2187: E MAIN ST. AT MAIN I-270 CENTRE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

909
1000

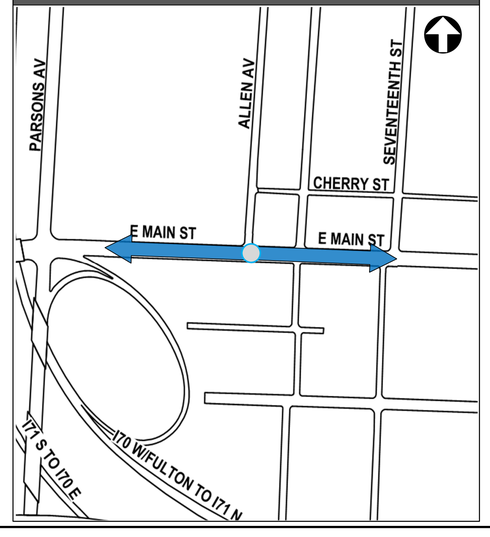
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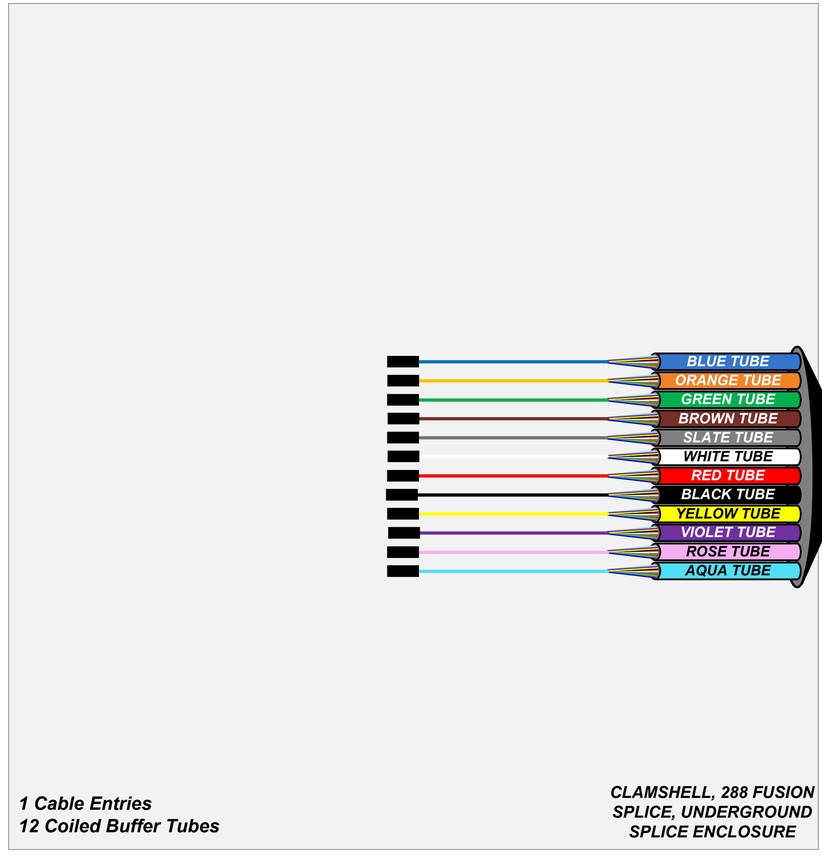
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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN





SPLICE-01

REFER TO SHEET 144 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

SPLICE-01: ALLEN AVE. AT E MAIN ST.
COMMUNICATIONS DIAGRAM

CIP: 540007 - 100006
PID NUMBER: 82573

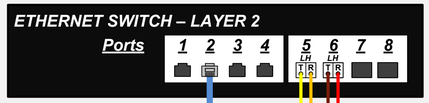
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

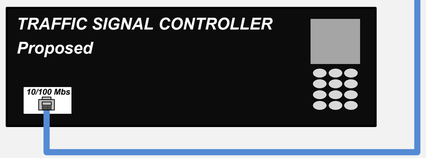
TRAFFIC SIGNAL CABINET ASSEMBLY

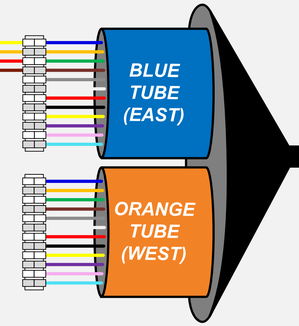
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2035: CHAMPION AVE. AT E MAIN ST.
SEE SHEET 913

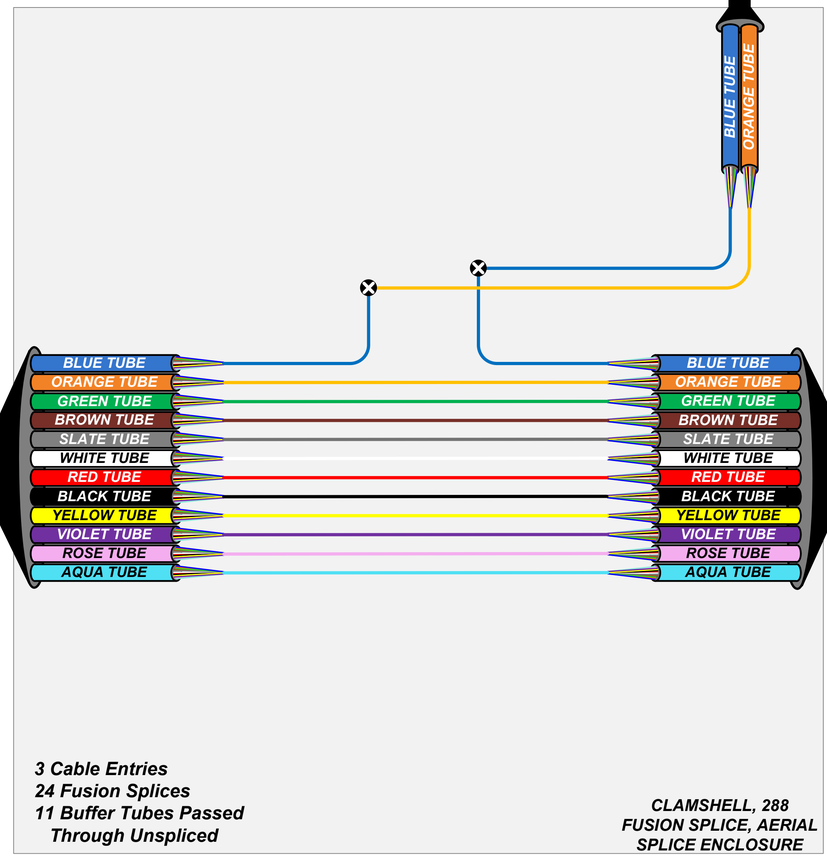
PORT 6: INT# 2034: E MAIN ST. AT OHIO AVE.
SEE SHEET 912







24 STRAND DROP

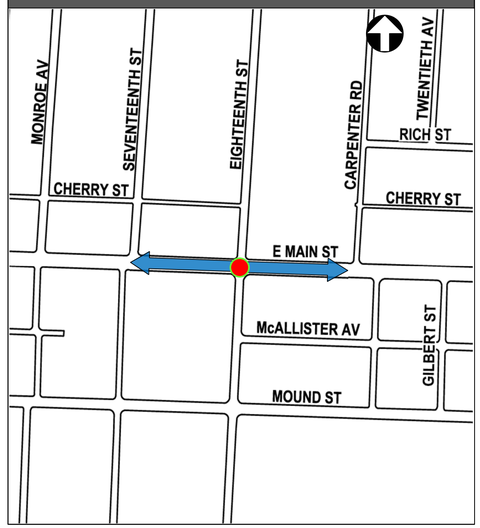


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2033

REFER TO SHEET 145 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2033: E MAIN ST. AT EIGHTEENTH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

911
1000

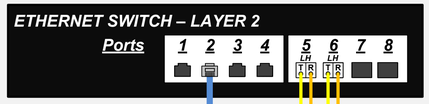
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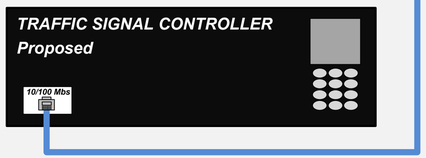
TRAFFIC SIGNAL CABINET ASSEMBLY

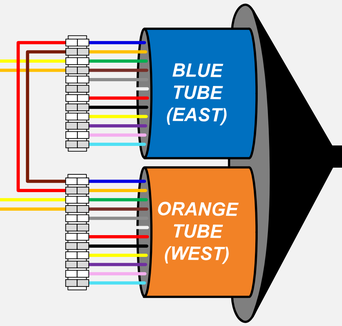
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2036: E MAIN ST. AT WILSON AVE.
SEE SHEET 914

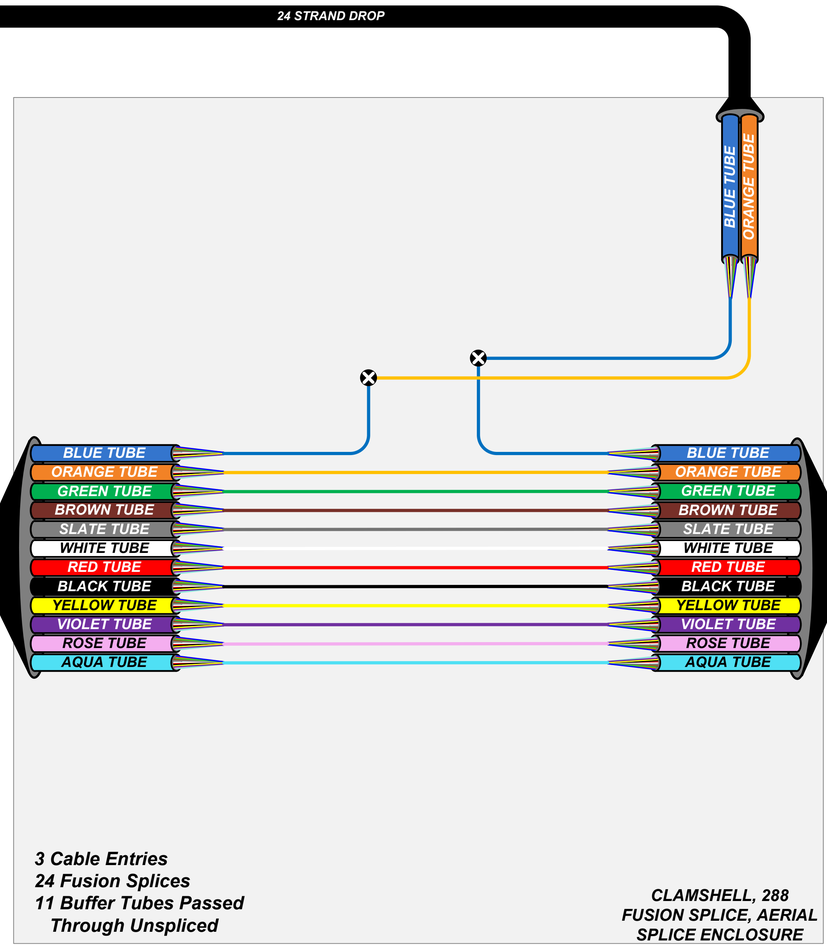
PORT 6: INT# 2033: E MAIN ST. AT EIGHTEENTH ST.
SEE SHEET 911







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2033: E MAIN ST.
AT EIGHTEENTH ST.
SEE SHEET 911

TO:
INT# 2035: CHAMPION
AVE. AT E MAIN ST.
SEE SHEET 913

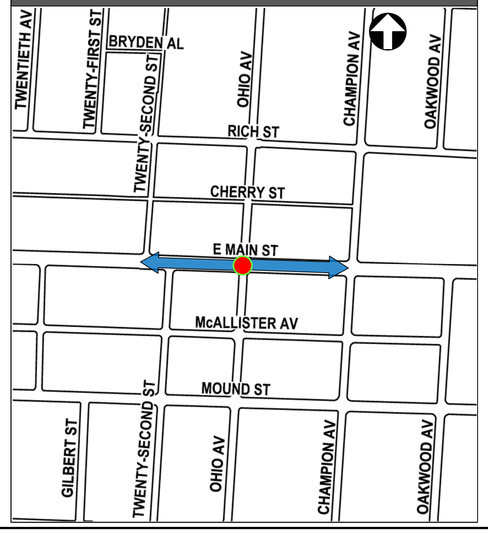
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2034
REFER TO SHEET 146 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2034: E MAIN ST. AT OHIO AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

912
1000

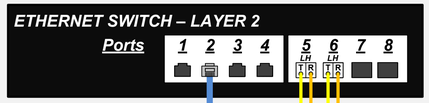
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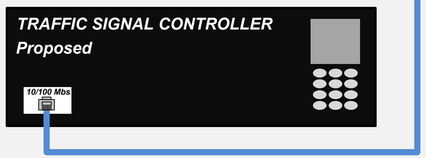
TRAFFIC SIGNAL CABINET ASSEMBLY

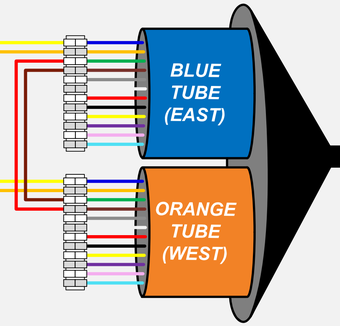
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2037: E MAIN ST. AT MILLER AVE.
SEE SHEET 915

PORT 6: INT# 2033: E MAIN ST. AT EIGHTEENTH ST.
SEE SHEET 911



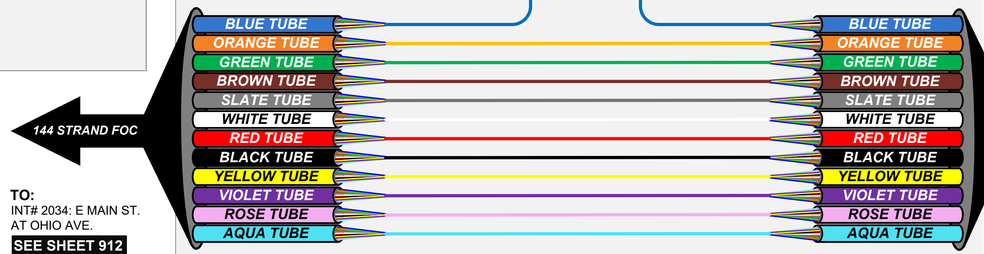




PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP





TO:
INT# 2034: E MAIN ST. AT OHIO AVE.
SEE SHEET 912

TO:
INT# 2036: E MAIN ST. AT WILSON AVE.
SEE SHEET 914

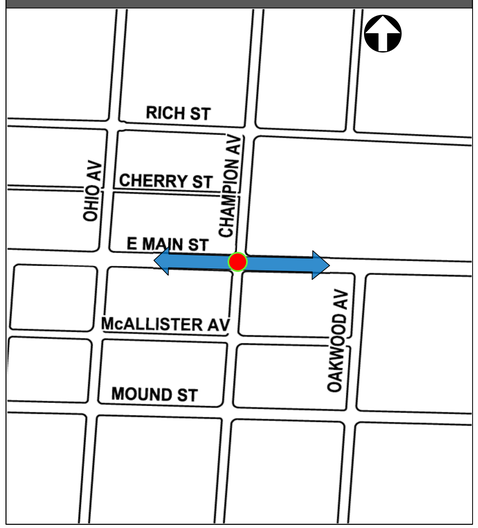
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2035

REFER TO SHEET 147 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2035: CHAMPION AVE. AT E MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

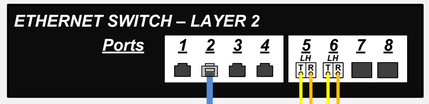
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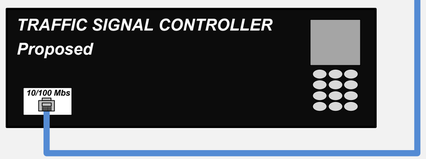
TRAFFIC SIGNAL CABINET ASSEMBLY

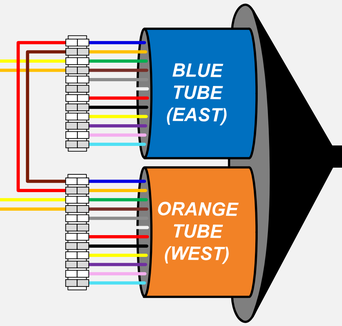
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070102.3: IR-70 AT KELTON AVE.
SEE SHEET 962

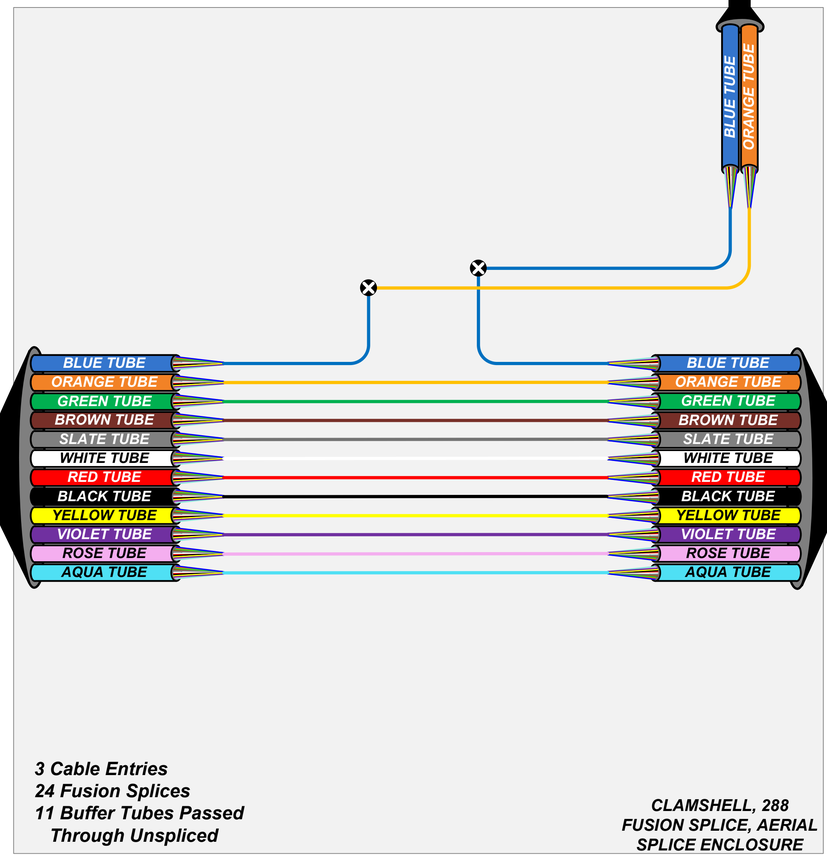
PORT 6: INT# 2034: E MAIN ST. AT OHIO AVE.
SEE SHEET 912







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2035: CHAMPION AVE. AT E MAIN ST.
SEE SHEET 913

TO:
INT# 2037: E MAIN ST. AT MILLER AVE.
SEE SHEET 915

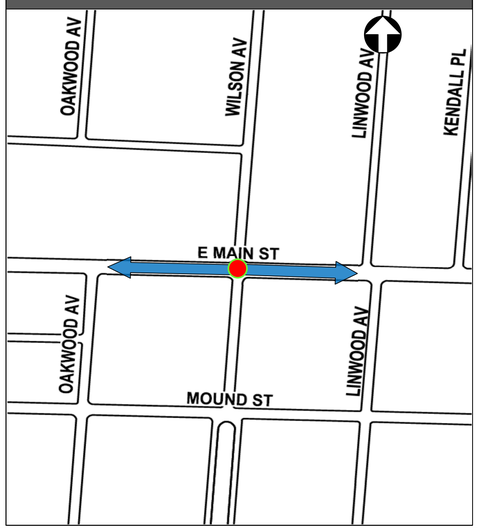
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2036
REFER TO SHEET 147 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2036: E MAIN ST. AT WILSON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

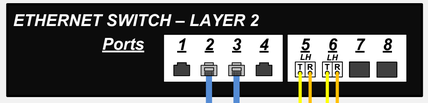
914
1000

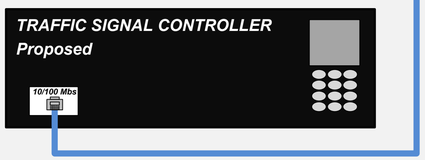
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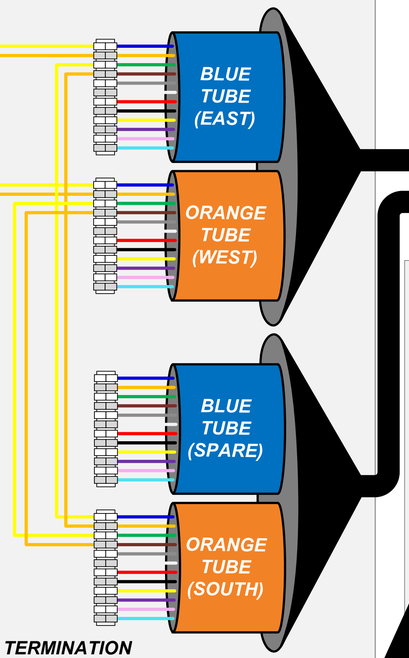
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

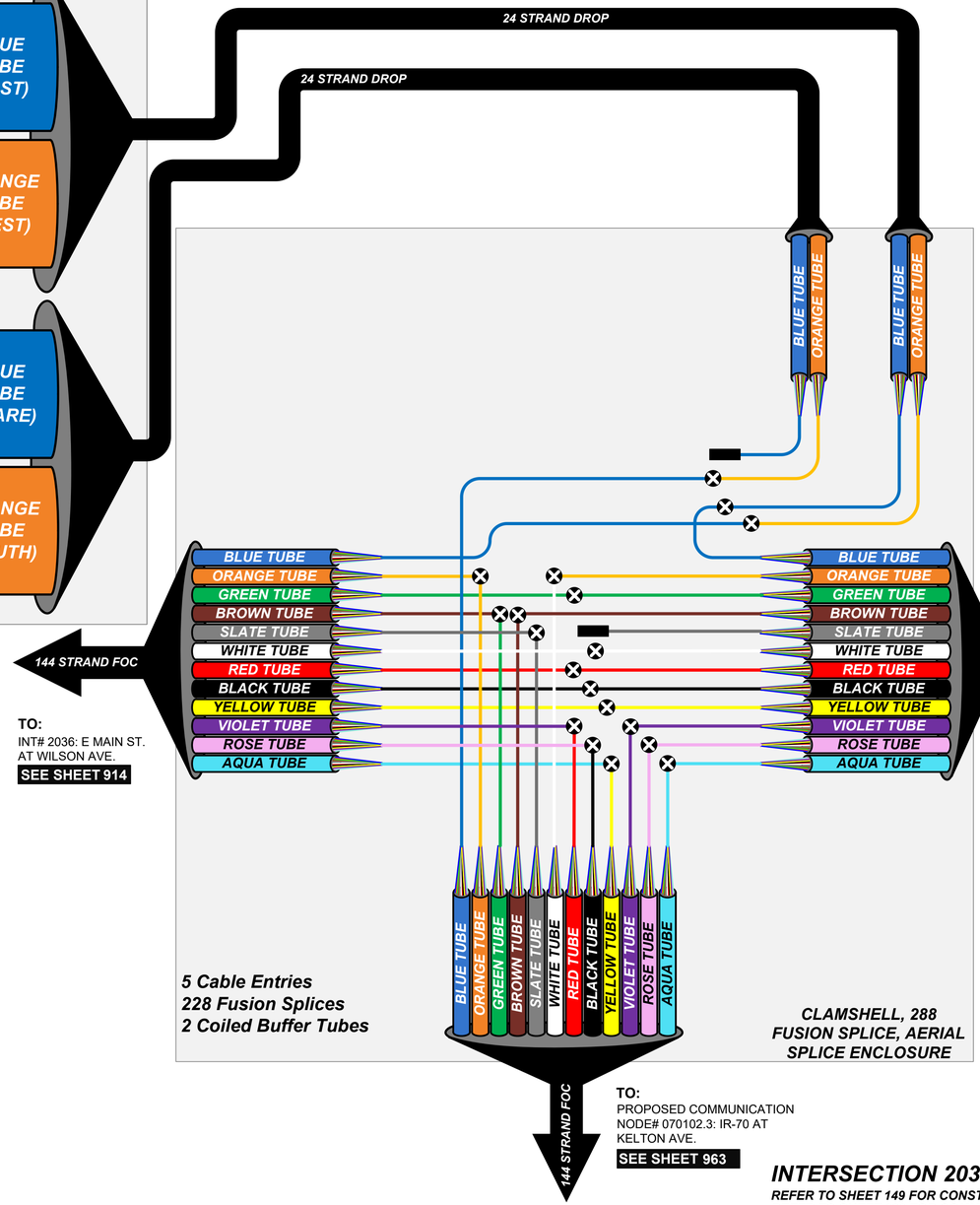
PORT 3: INT# 2114: MILLER AVE. AT MOOBERRY ST.
SEE SHEET 921
PORT 5: INT# 2039: E MAIN ST. AT FAIRWOOD AVE.
SEE SHEET 917
PORT 6: INT# 2035: CHAMPION AVE. AT E MAIN ST.
SEE SHEET 913







PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



WIRELESS LINK TO
INT# 2114: MILLER AVE.
AT MOOBERRY ST.
SEE SHEET 921

TO:
INT# 2036: E MAIN ST.
AT WILSON AVE.
SEE SHEET 914

TO:
INT# 2038: E MAIN ST.
AT KELTON AVE.
SEE SHEET 916

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

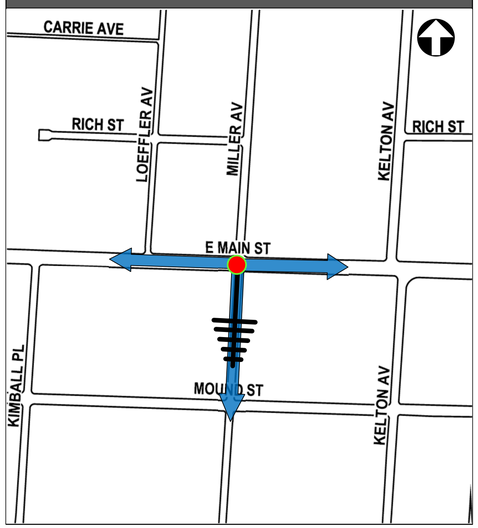
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
PROPOSED COMMUNICATION
NODE# 070102.3: IR-70 AT
KELTON AVE.
SEE SHEET 963

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2037
REFER TO SHEET 149 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2037: E MAIN ST. AT MILLER AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

915
1000

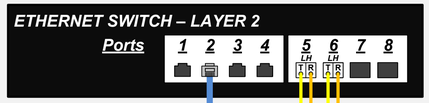
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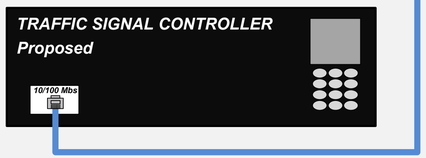
TRAFFIC SIGNAL CABINET ASSEMBLY

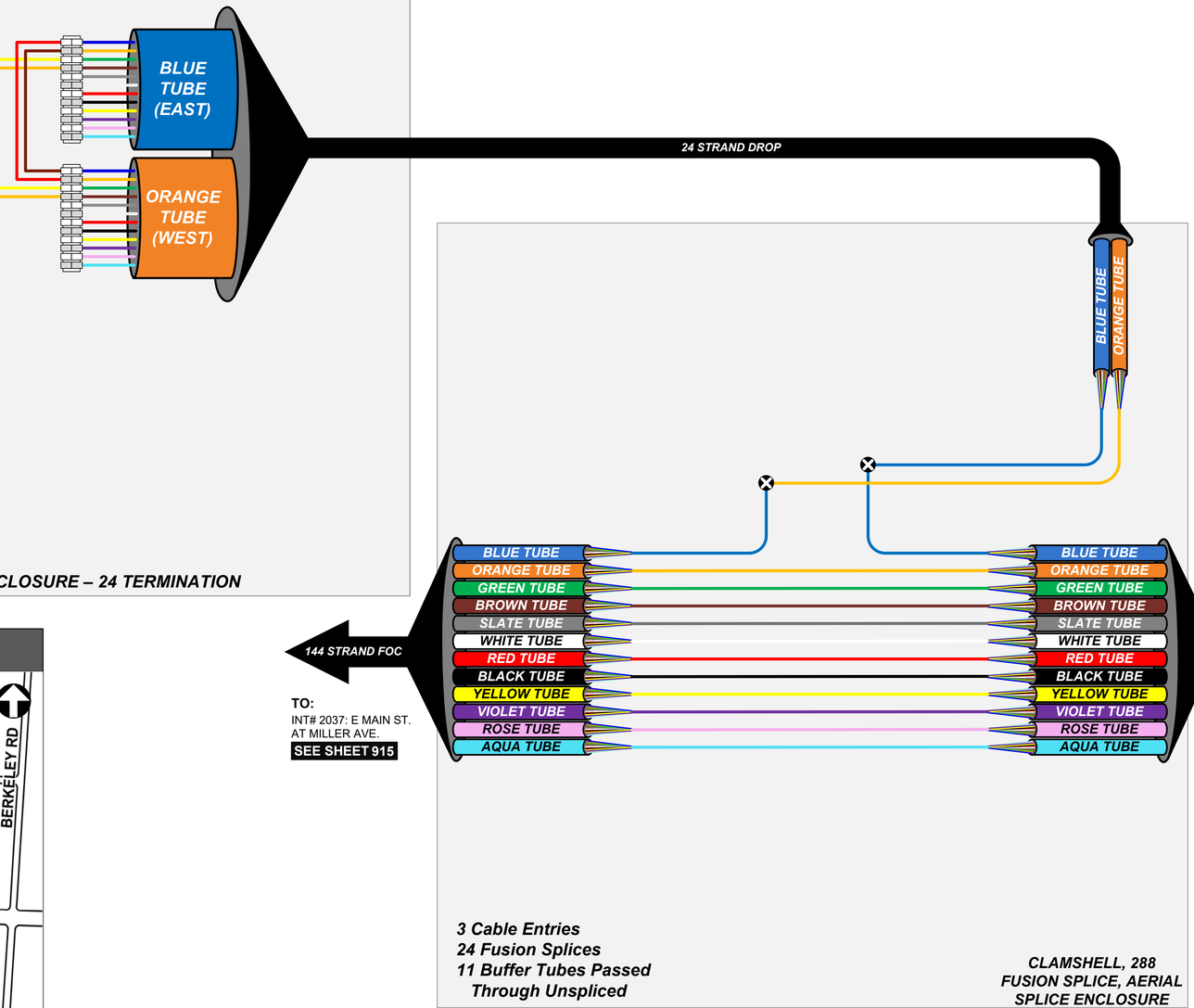
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2103: E MAIN ST. AT S NELSON RD.
SEE SHEET 918

PORT 6: PROPOSED COMMUNICATION NODE# 070102.3: IR-70 AT KELTON AVE.
SEE SHEET 962







PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2038

REFER TO SHEET 150 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

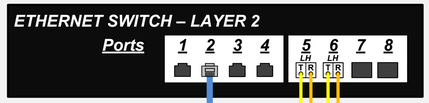
INT# 2038: E MAIN ST. AT KELTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

916
1000

J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\907-917.vsd - 2038 layout - last saved by: skoganti 3/31/2020 4:56:01 PM ~ printed: 3/31/2020 5:10:31 PM

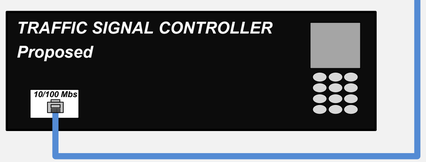
TRAFFIC SIGNAL CABINET ASSEMBLY

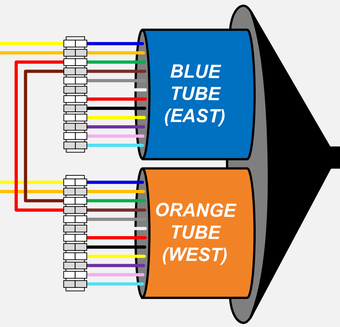


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2104: ALUM CREEK DR. AT E MAIN ST.
SEE SHEET 920

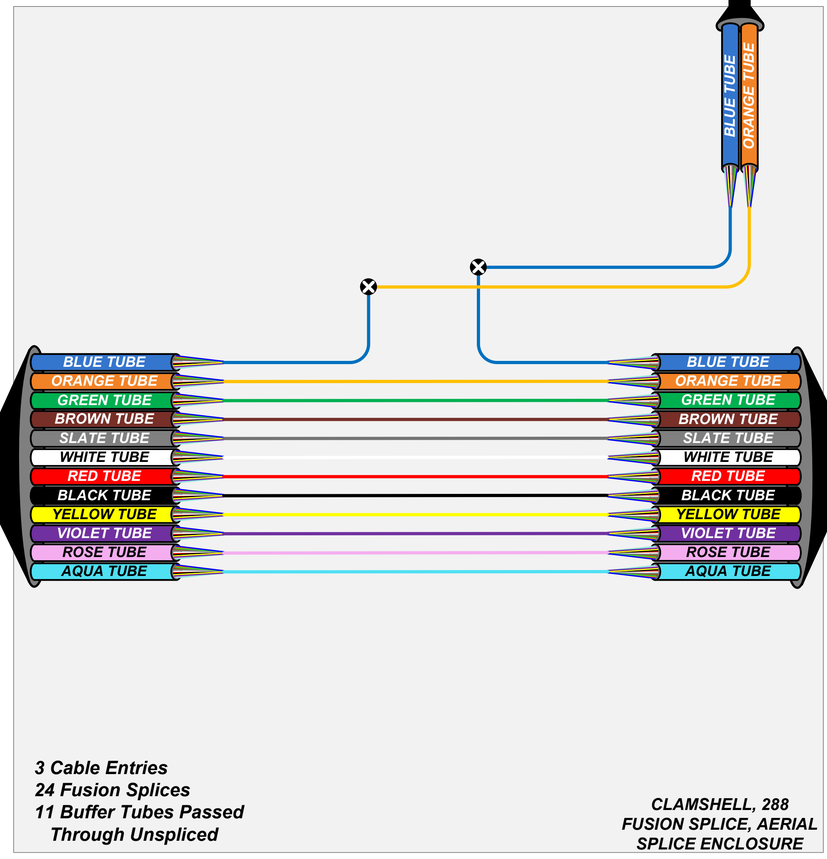
PORT 6: INT# 2037: E MAIN ST. AT MILLER AVE.
SEE SHEET 915





PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP



TO:
INT# 2038: E MAIN ST. AT KELTON AVE.
SEE SHEET 751

TO:
INT# 2103: E MAIN ST. AT S NELSON RD.
SEE SHEET 753

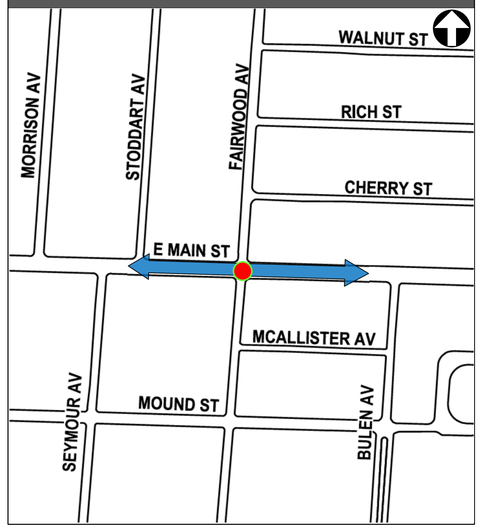
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2039

REFER TO SHEET 153 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

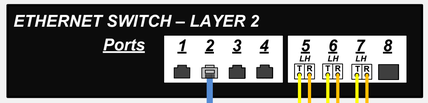
INT# 2039: E MAIN ST. AT FAIRWOOD AVE.
COMMUNICATIONS DIAGRAM

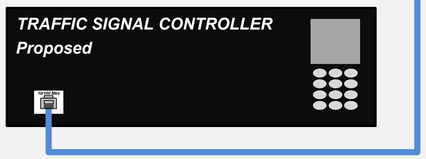
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

917
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY



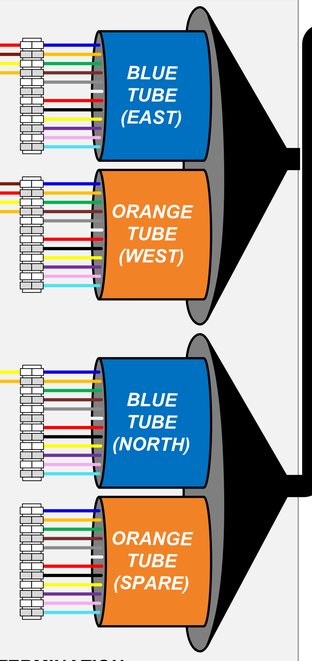


ETHERNET SWITCH PORT DESTINATION

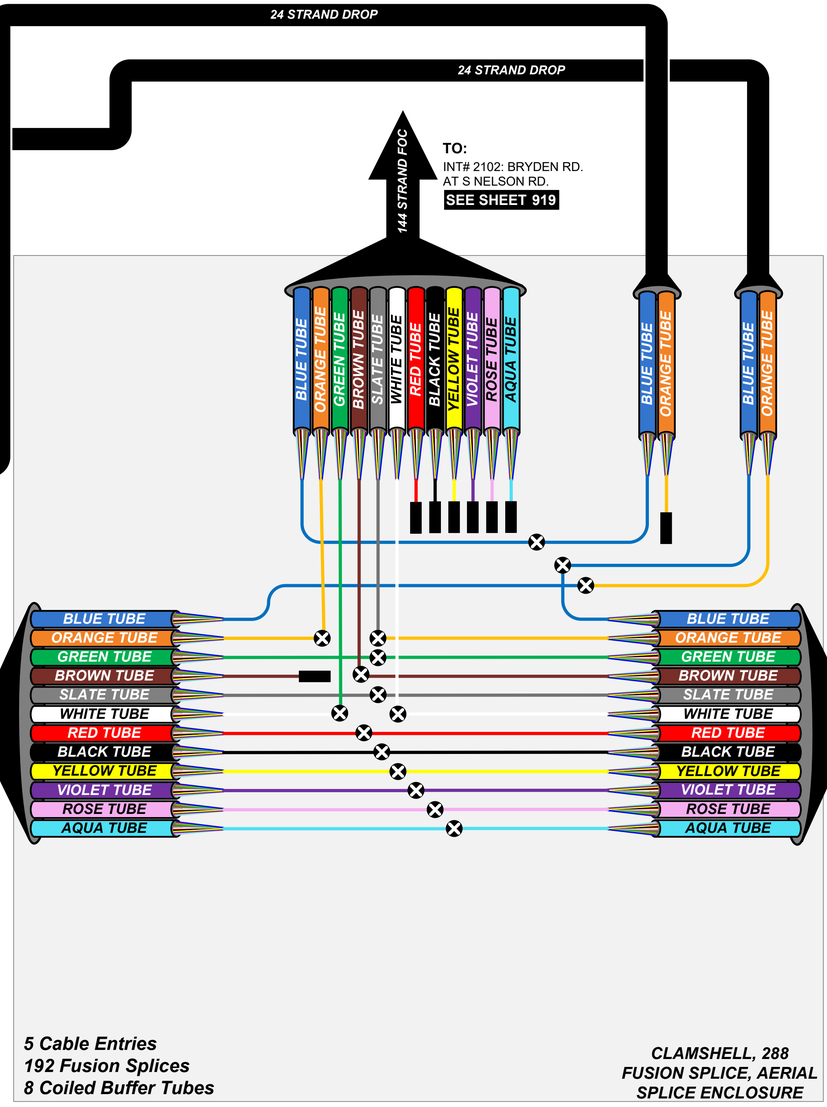
PORT 5: INT# 2104: ALUM CREEK DR. AT E MAIN ST.
SEE SHEET 920

PORT 6: INT# 2038: E MAIN ST. AT KELTON AVE.
SEE SHEET 916

PORT 7: INT# 2102: BRYDEN RD. AT S NELSON RD.
SEE SHEET 919



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



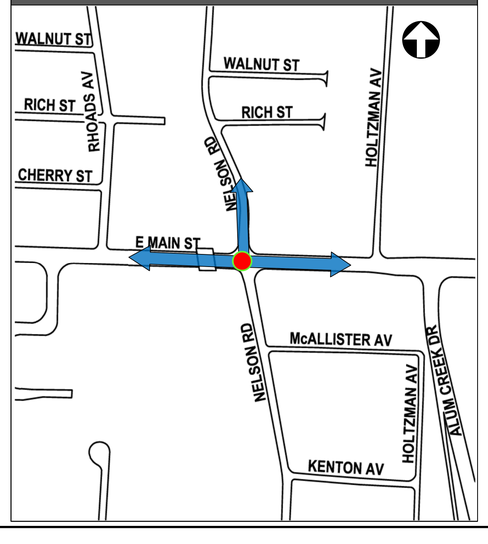
5 Cable Entries
192 Fusion Splices
8 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2103

REFER TO SHEET 154 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

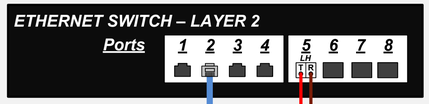
CIP: 540007 - 100006
PID NUMBER: 82573

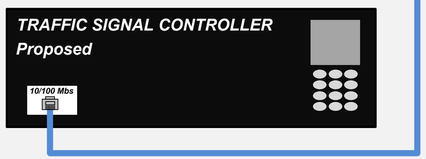
INT# 2103: E MAIN ST. AT S NELSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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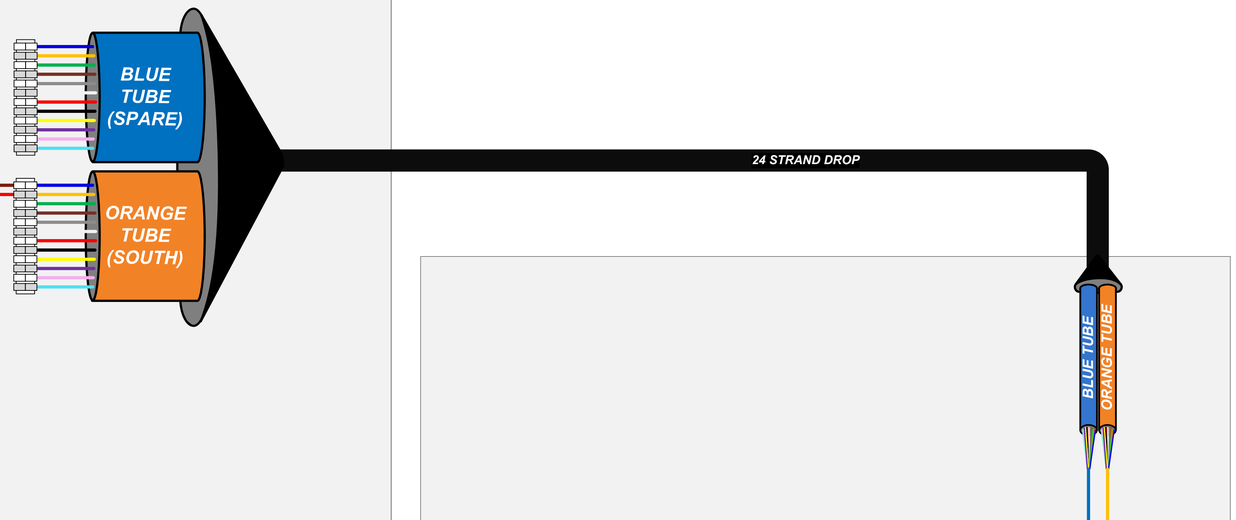
TRAFFIC SIGNAL CABINET ASSEMBLY



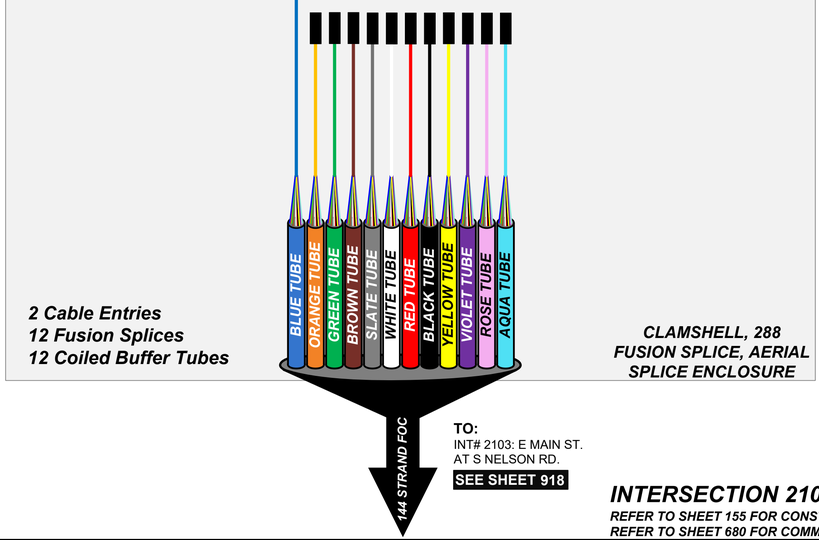


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2103: E MAIN ST. AT S NELSON RD.
SEE SHEET 918



PATCH PANEL ENCLOSURE – 24 TERMINATION



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

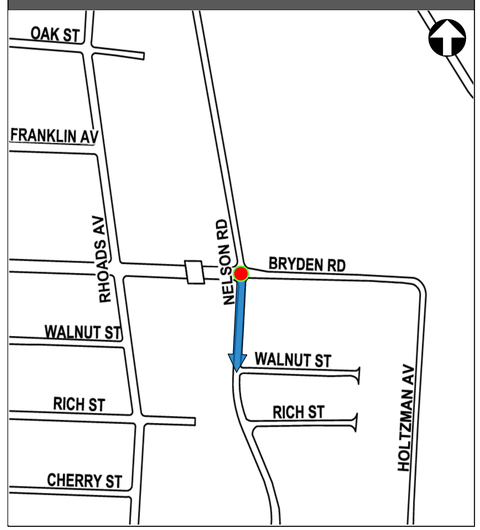
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 2103: E MAIN ST.
AT S NELSON RD.
SEE SHEET 918

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2102

REFER TO SHEET 155 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2102: BRYDEN RD. AT S NELSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

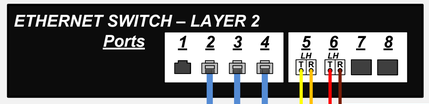
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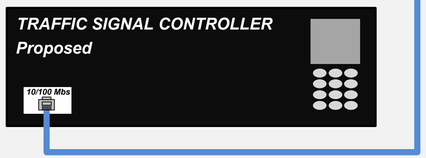
TRAFFIC SIGNAL CABINET ASSEMBLY

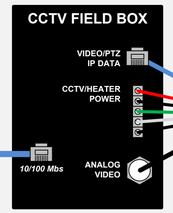
ETHERNET SWITCH PORT DESTINATION

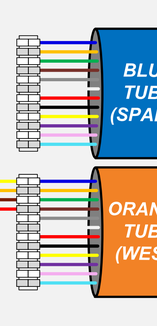
PORT 5: INT# 2039: E MAIN ST. AT FAIRWOOD AVE.
SEE SHEET 917

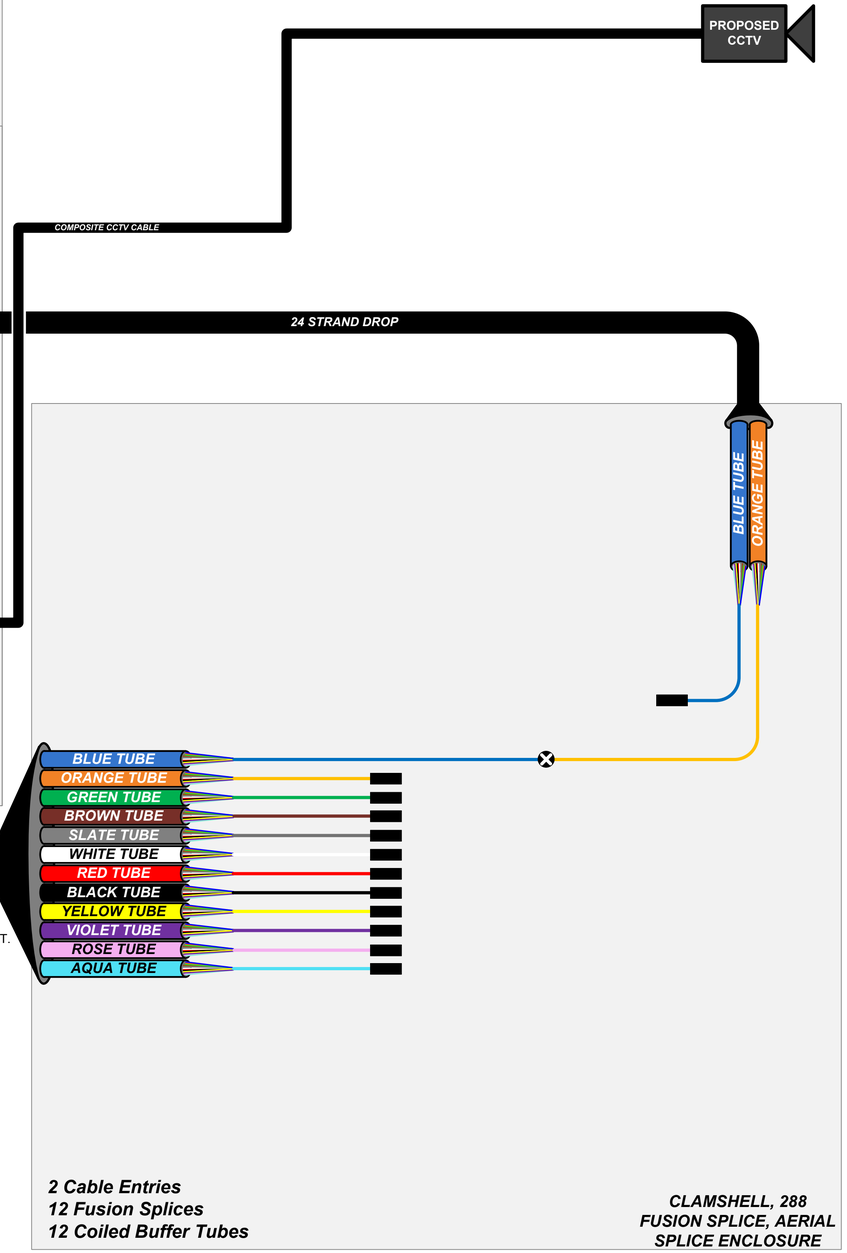
PORT 6: INT# 2103: E MAIN ST. AT S NELSON RD.
SEE SHEET 918









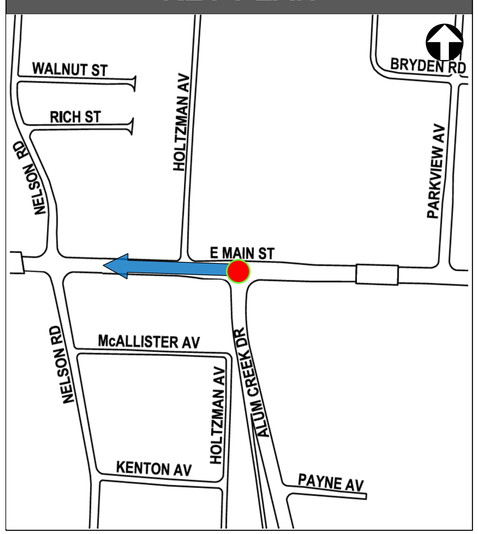


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2104

REFER TO SHEET 156 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

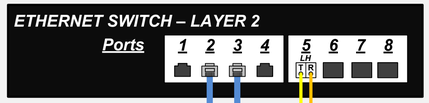
INT# 2104: ALUM CREEK DR. AT E MAIN ST.
COMMUNICATIONS DIAGRAM

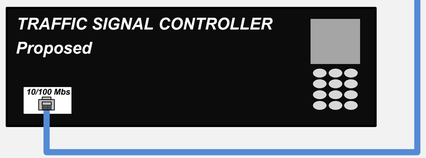
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

920
1000

J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\918-931.vsd - 2104 layout ~ last saved by: skoganti 3/31/2020 4:56:29 PM ~ printed: 3/31/2020 5:10:46 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



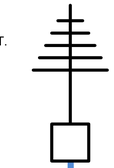


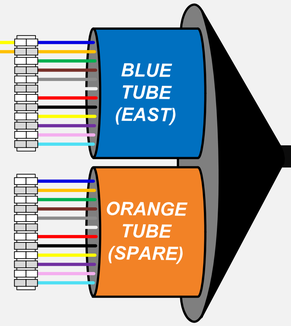
ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 2037: E MAIN ST. AT MILLER AVE.
SEE SHEET 915

PORT 5: PROPOSED COMMUNICATION NODE# 070102.3: IR-70 AT KELTON AVE.
SEE SHEET 962

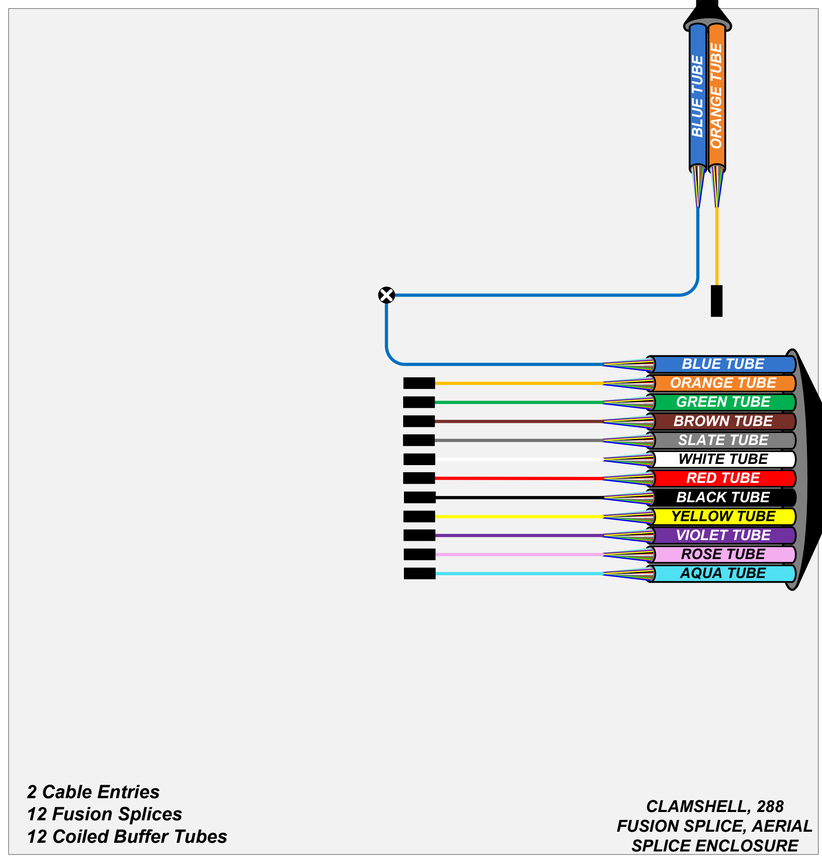
WIRELESS LINK TO
INT# 2037: E MAIN ST.
AT MILLER AVE.
SEE SHEET 915





24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
PROPOSED
COMMUNICATION
NODE# 070102.3: IR-70
AT KELTON AVE.
SEE SHEET 963

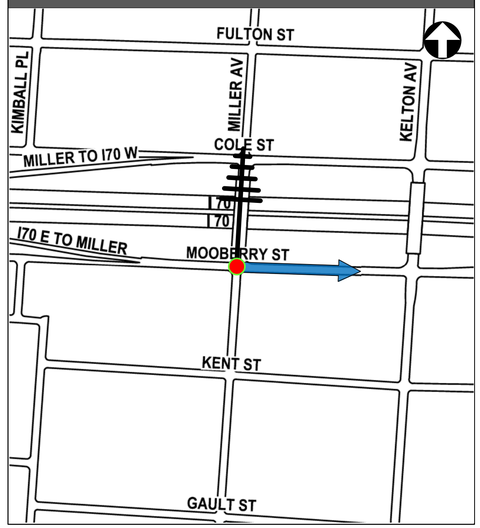
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2114

REFER TO SHEET 160 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2114: MILLER AVE. AT MOOBERRY ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

921
1000

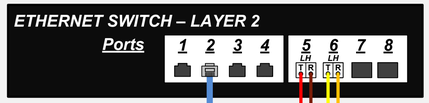
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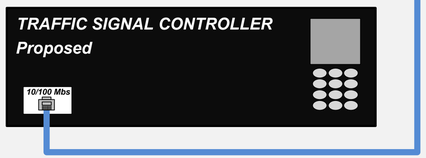
TRAFFIC SIGNAL CABINET ASSEMBLY

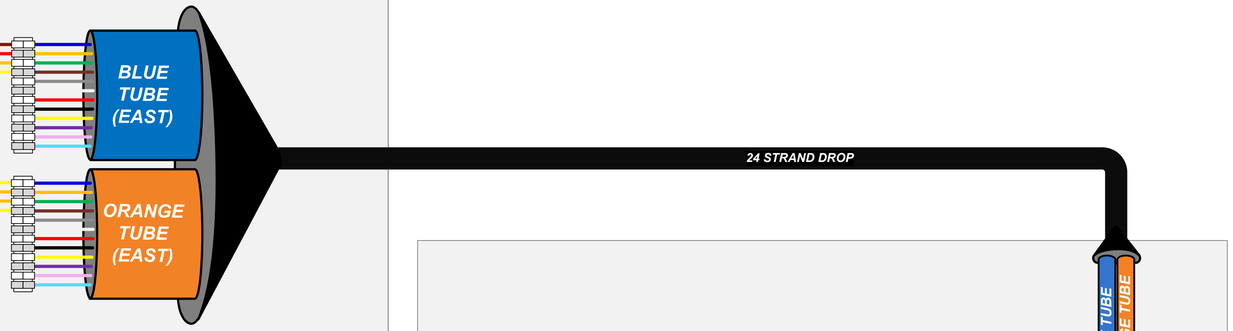
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2194: HAMILTON RD. AT WINCHESTER PIKE
SEE SHEET 924

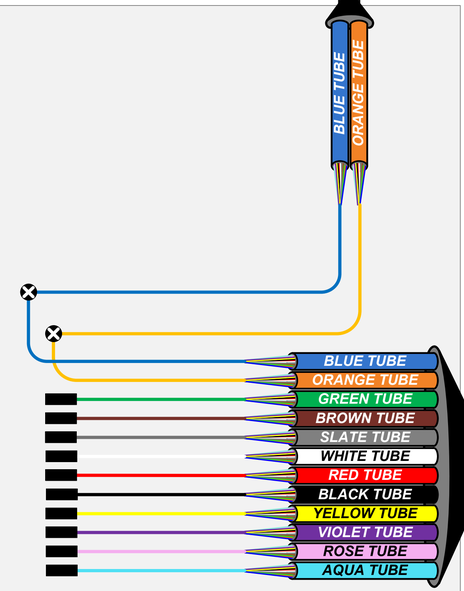
PORT 6: PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33
SEE SHEET 980







PATCH PANEL ENCLOSURE – 24 TERMINATION



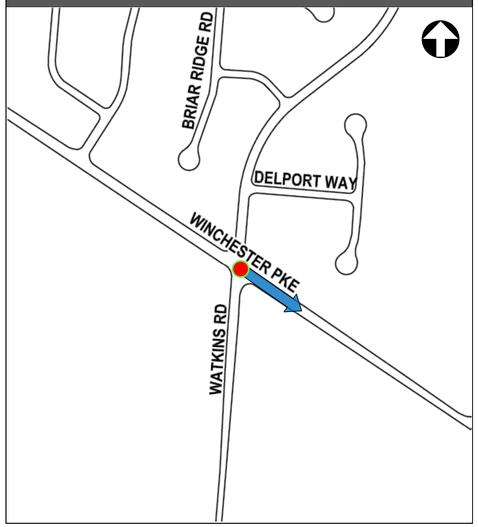
2 Cable Entries
24 Fusion Splices
10 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4910

REFER TO SHEET 597 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# SIG4910: WATKINS RD./ASKINS RD AT WINCHESTER PIKE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

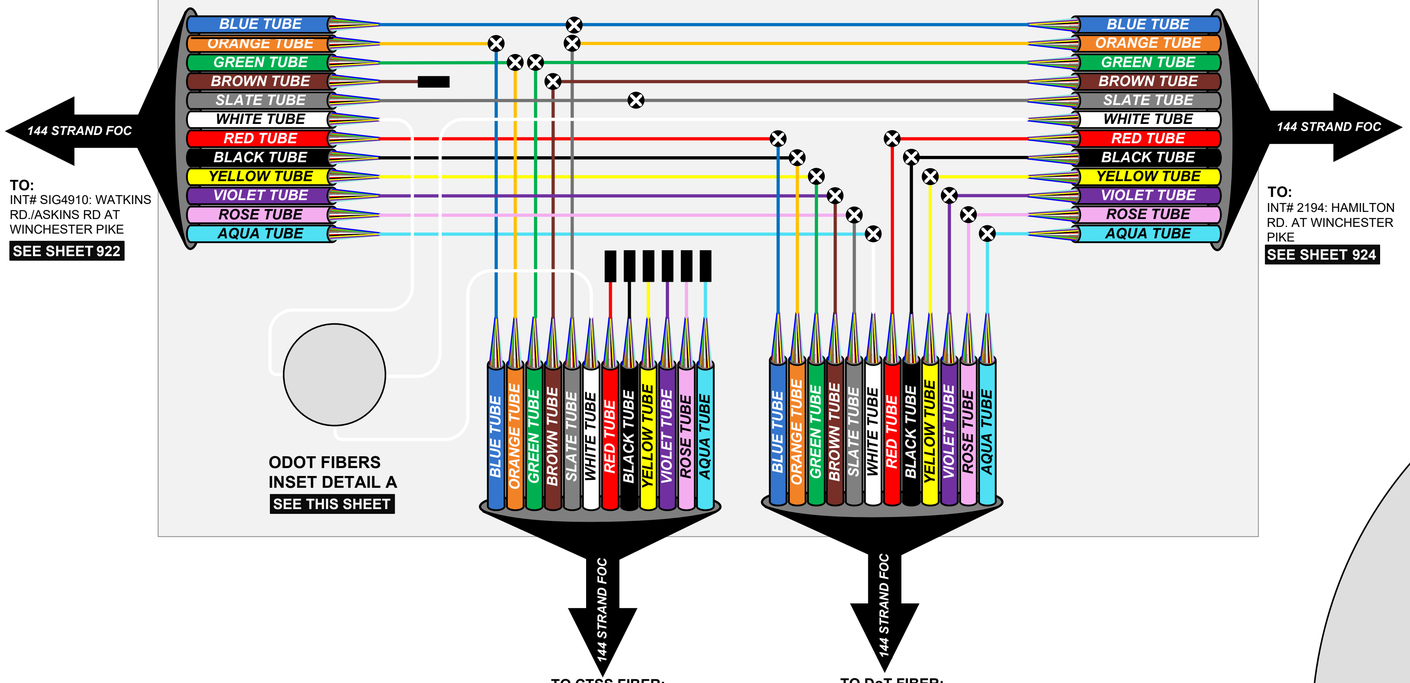
922
1000

J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\918-931.vsd - SIG4910 layout ~ last saved by: skoganti 3/31/2020 4:56:29 PM ~ printed: 3/31/2020 5:10:46 PM

J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\918-931.vsd - SPLICE-08 layout - last saved by: skoganti 3/31/2020 4:56:29 PM - printed: 3/31/2020 5:10:46 PM

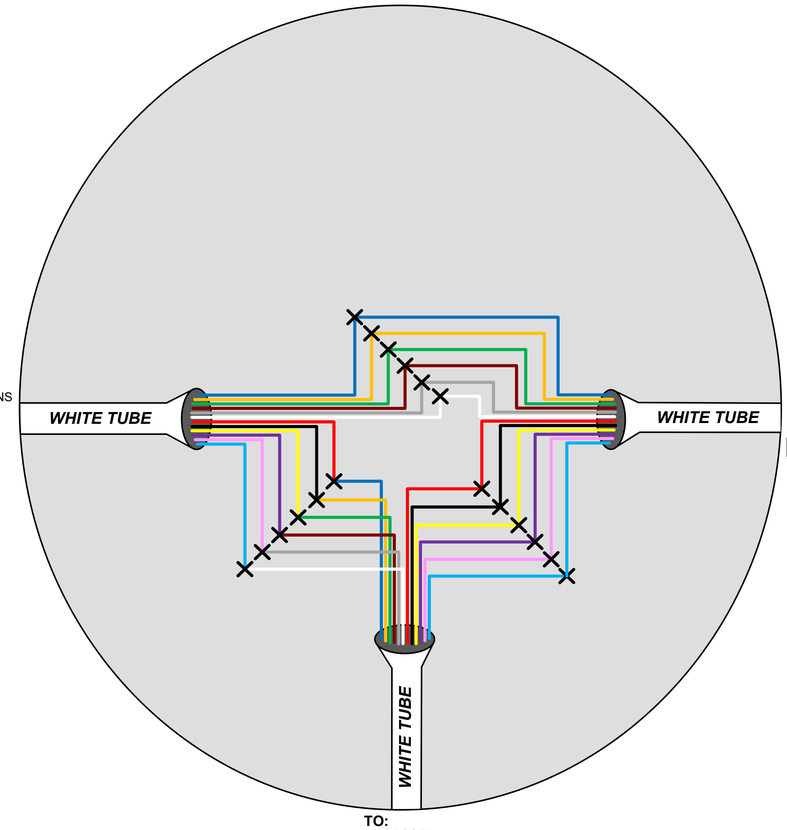
4 Cable Entries
246 Fusion Splices
7 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE



TO CTSS FIBER:
PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33
SEE SHEET 980

TO DoT FIBER:
PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33
SEE SHEET 980



TO:
INT# SIG4910: WATKINS RD./ASKINS RD AT WINCHESTER PIKE
SEE SHEET 922

TO:
INT# 2194: HAMILTON RD. AT WINCHESTER PIKE
SEE SHEET 924

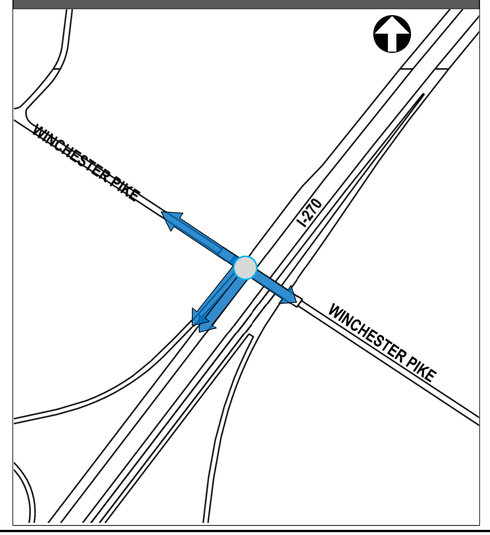
TO:
PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33
SEE SHEET 980

INSET DETAIL A

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE-08
REFER TO SHEET 598 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

SPLICE-08: IR-270 AT WINCHESTER PIKE
COMMUNICATIONS DIAGRAM

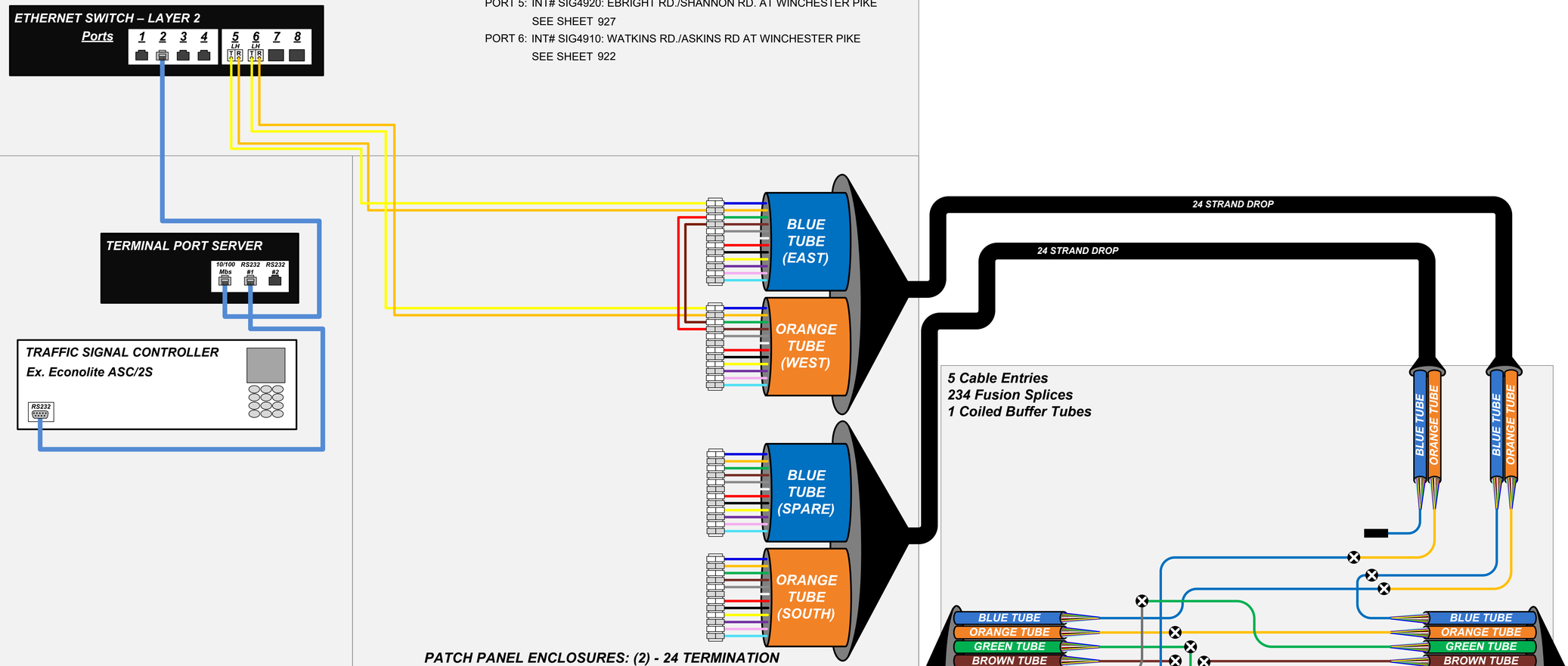
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4920: EBRIGHT RD./SHANNON RD. AT WINCHESTER PIKE
SEE SHEET 927

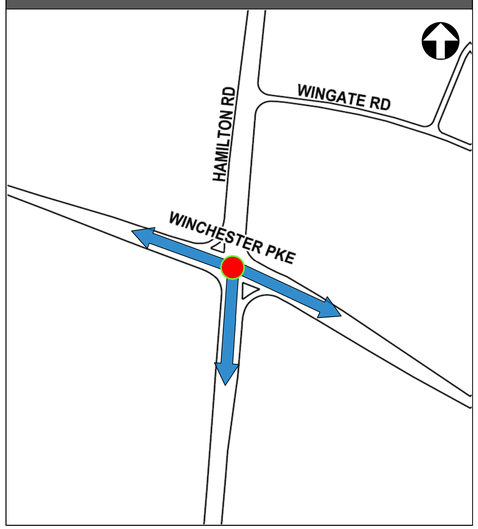
PORT 6: INT# SIG4910: WATKINS RD./ASKINS RD AT WINCHESTER PIKE
SEE SHEET 922



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2194

REFER TO SHEET 600 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

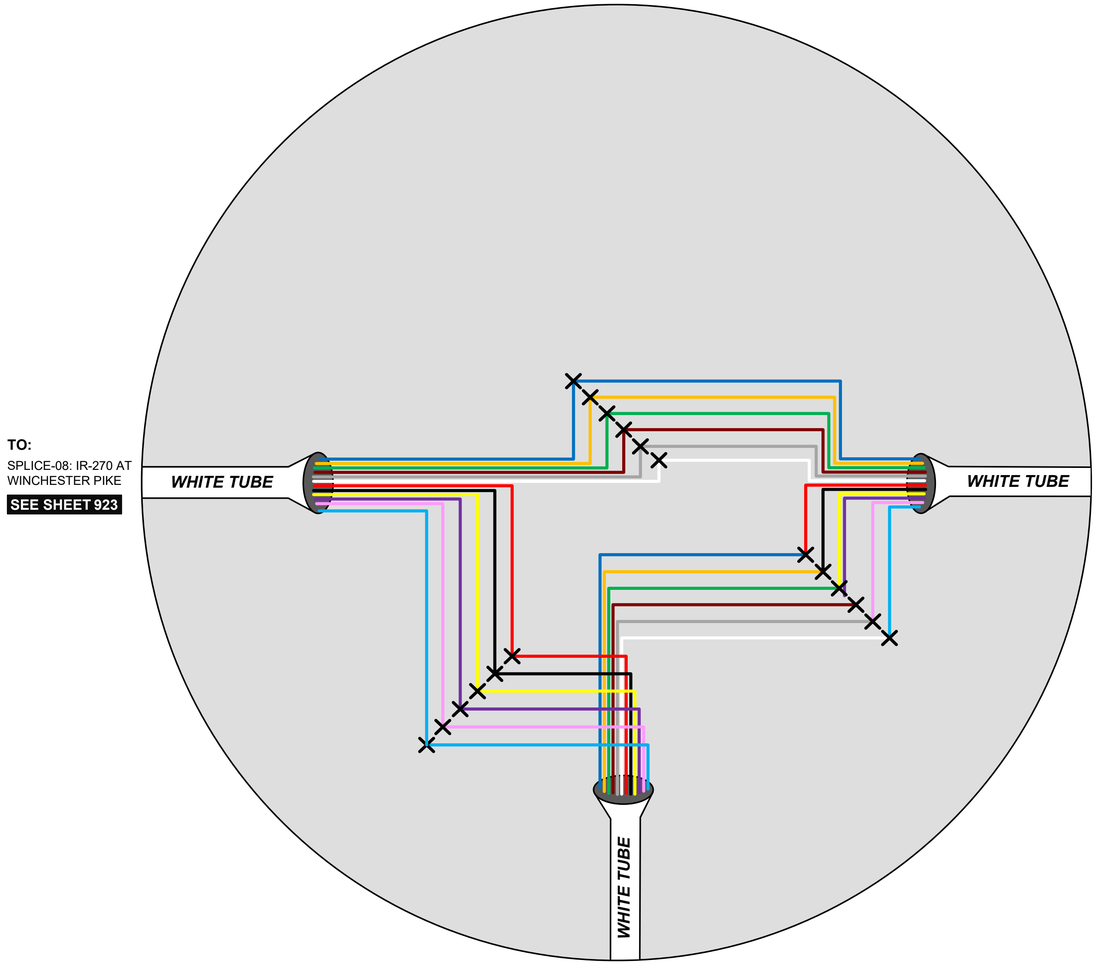
CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2194: HAMILTON RD. AT WINCHESTER PIKE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

924
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TO:
SPLICE-08: IR-270 AT WINCHESTER PIKE
SEE SHEET 923

TO:
INT# 2199: NOE-BIXBY RD. AT WINCHESTER PIKE
SEE SHEET 926

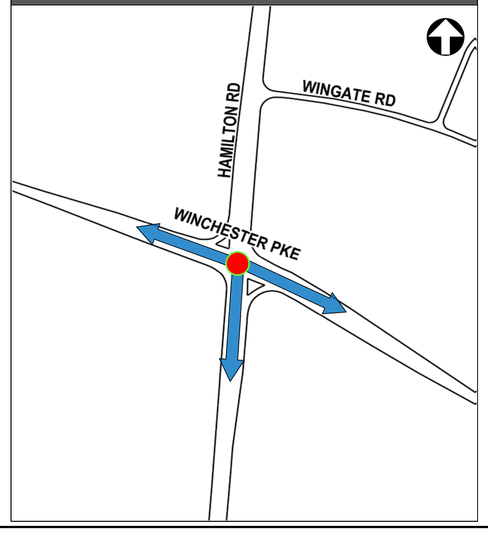
TO:
SPLICE-11: SR-317 AT US-33
SEE SHEET 929

DETAIL A
SEE SHEET 924

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2194
REFER TO SHEET 600 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2194: HAMILTON RD. AT WINCHESTER PIKE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

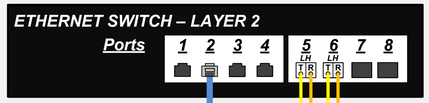
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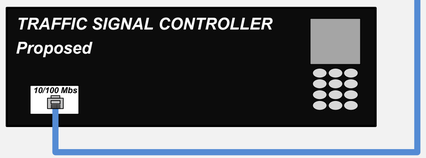
TRAFFIC SIGNAL CABINET ASSEMBLY

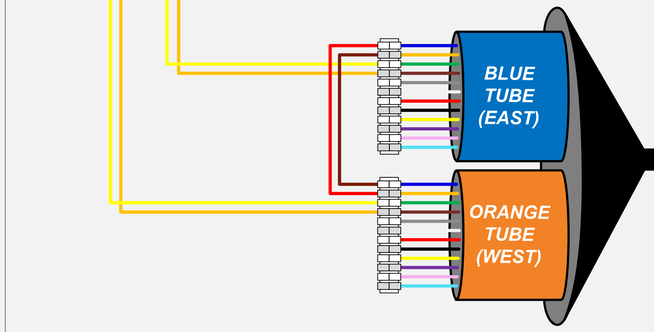
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4940: BRICE RD./BIXBY RD. AT WINCHESTER PIKE
SEE SHEET 928

PORT 6: PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33
SEE SHEET 980

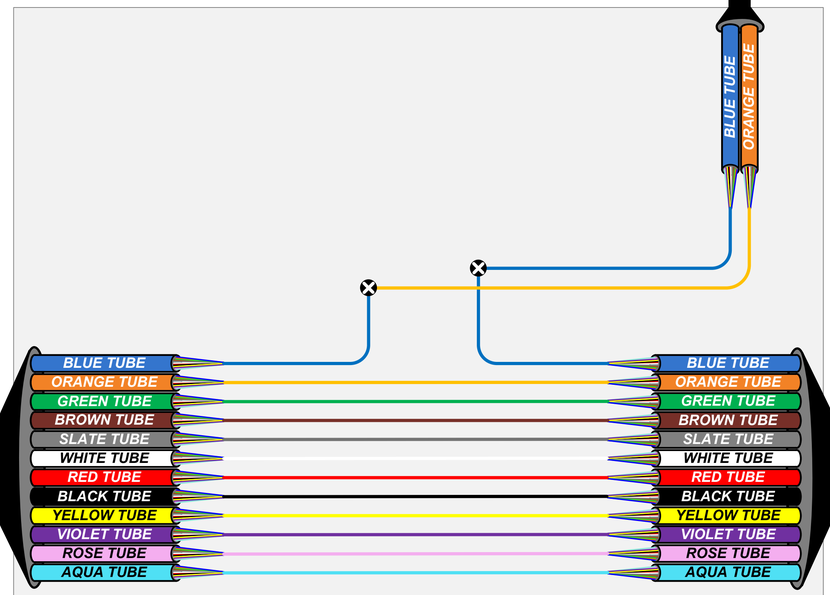






PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP



TO:
INT# 2194: HAMILTON RD. AT WINCHESTER PIKE
SEE SHEET 924

TO:
INT# SIG4920: EBRIGHT RD./SHANNON RD. AT WINCHESTER PIKE
SEE SHEET 927

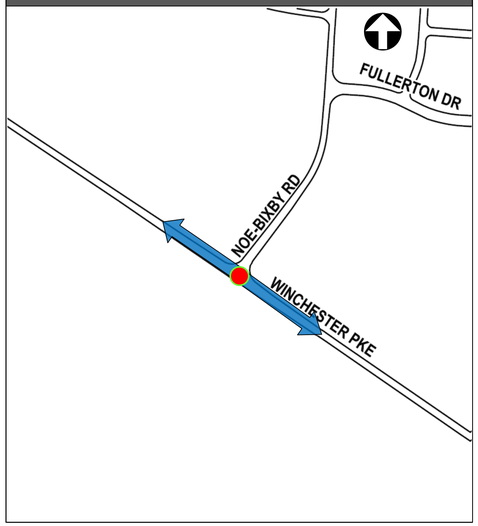
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2199

REFER TO SHEET 603 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2199: NOE-BIXBY RD. AT WINCHESTER PIKE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

926
1000

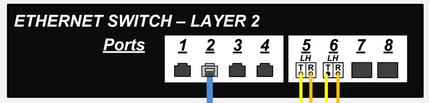
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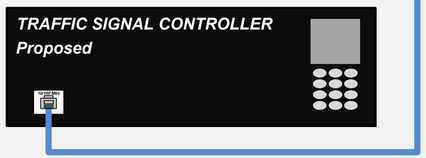
TRAFFIC SIGNAL CABINET ASSEMBLY

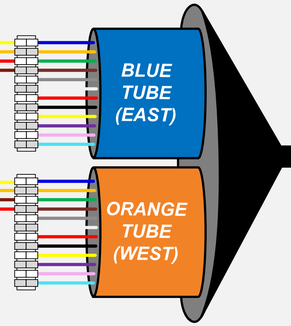
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4940: BRICE RD./BIXBY RD. AT WINCHESTER PIKE
SEE SHEET 928

PORT 6: INT# 2194: HAMILTON RD. AT WINCHESTER PIKE
SEE SHEET 924

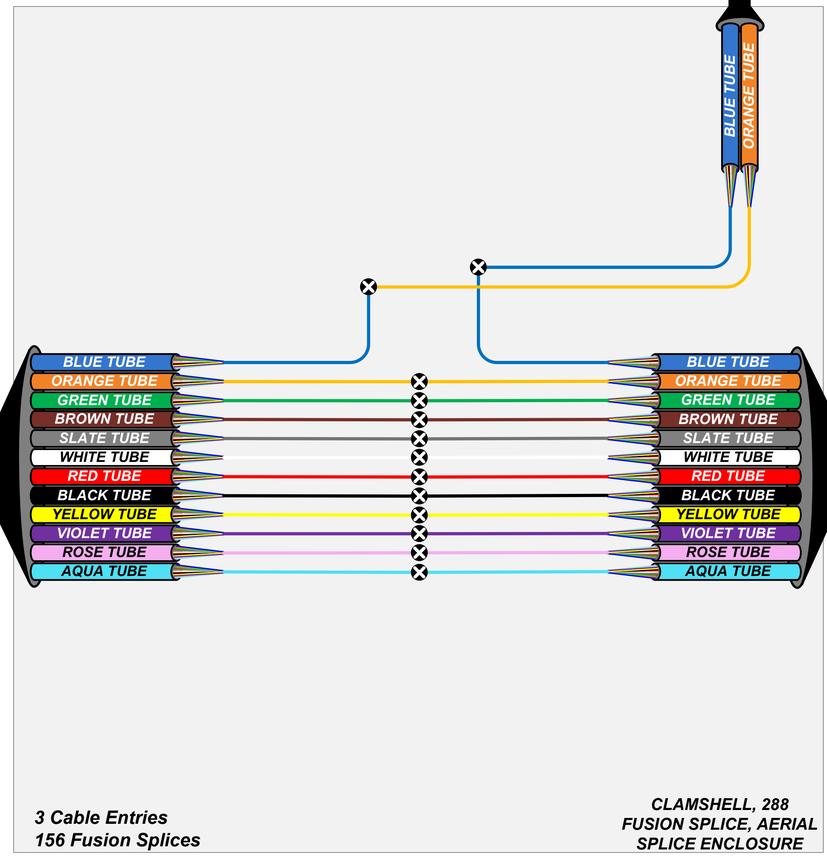






PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP



TO:
INT# 2199: NOE-BIXBY RD. AT WINCHESTER PIKE
SEE SHEET 926

TO:
INT# SIG4940: BRICE RD./BIXBY RD. AT WINCHESTER PIKE
SEE SHEET 928

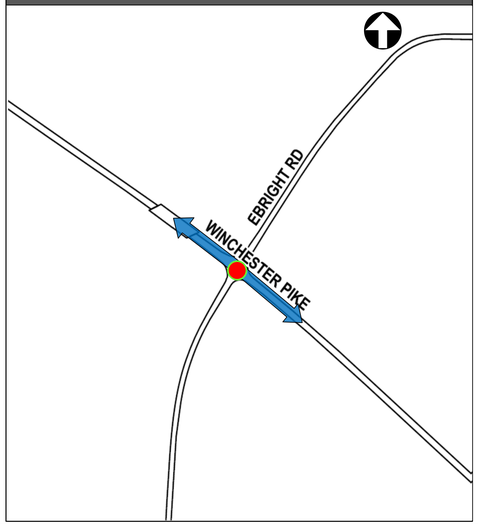
3 Cable Entries
156 Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4920

REFER TO SHEET 606 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

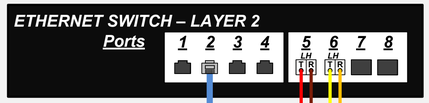
INT# SIG4920: EBRIGHT RD./SHANNON RD. AT WINCHESTER PIKE
COMMUNICATIONS DIAGRAM

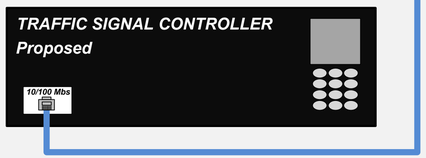
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

927
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TRAFFIC SIGNAL CABINET ASSEMBLY

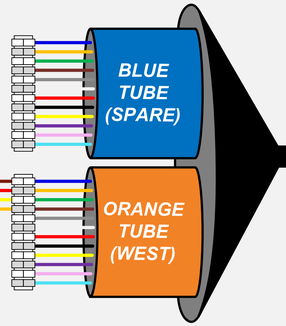


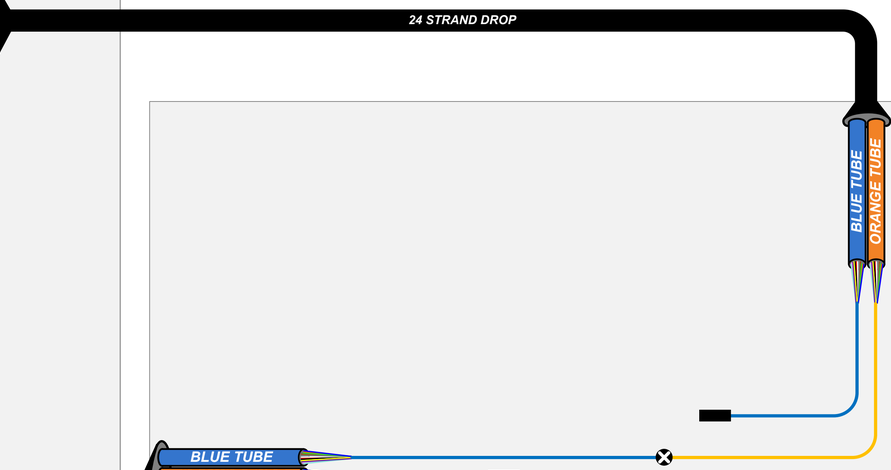


ETHERNET SWITCH PORT DESTINATION

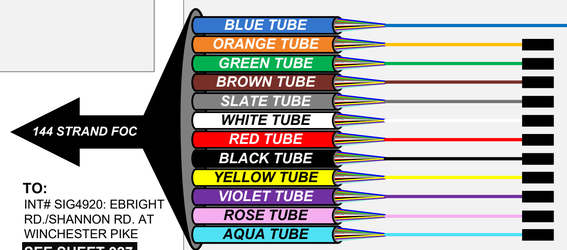
PORT 5: INT# SIG4920: EBRIGHT RD./SHANNON RD. AT WINCHESTER PIKE
SEE SHEET 927

PORT 6: INT# 2199: NOE-BIXBY RD. AT WINCHESTER PIKE
SEE SHEET 926





PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# SIG4920: EBRIGHT RD./SHANNON RD. AT WINCHESTER PIKE
SEE SHEET 927

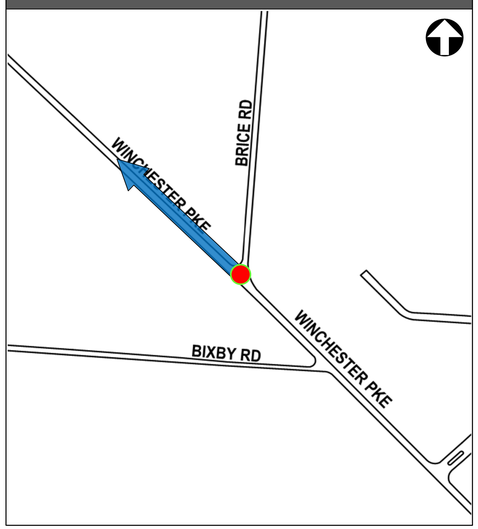
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4930

REFER TO SHEET 611 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# SIG4940: BRICE RD./BIXBY RD. AT WINCHESTER PIKE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

928
1000

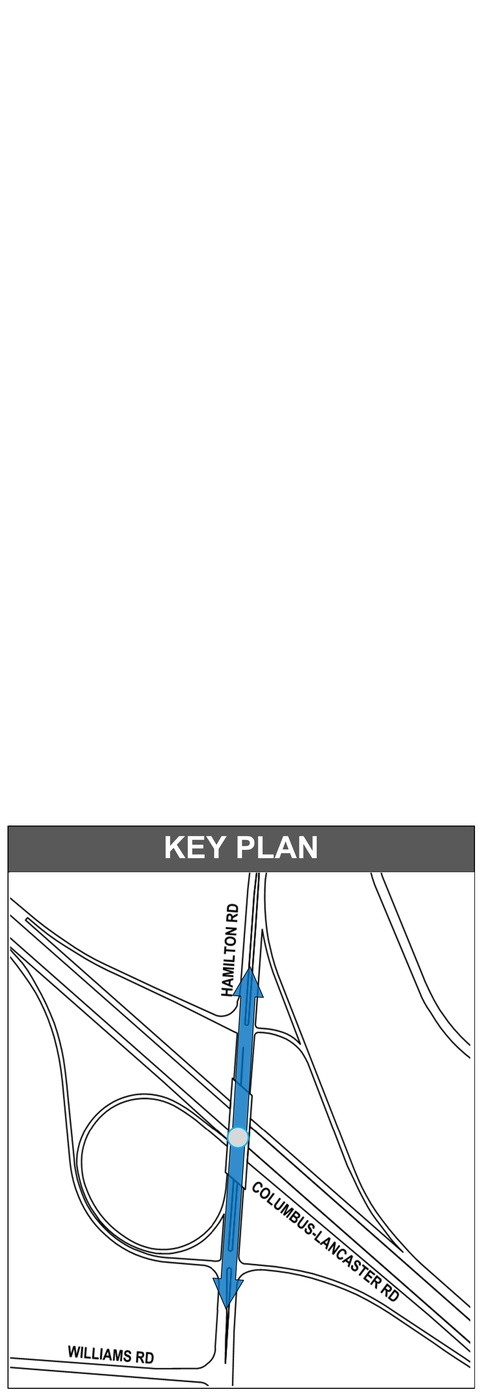
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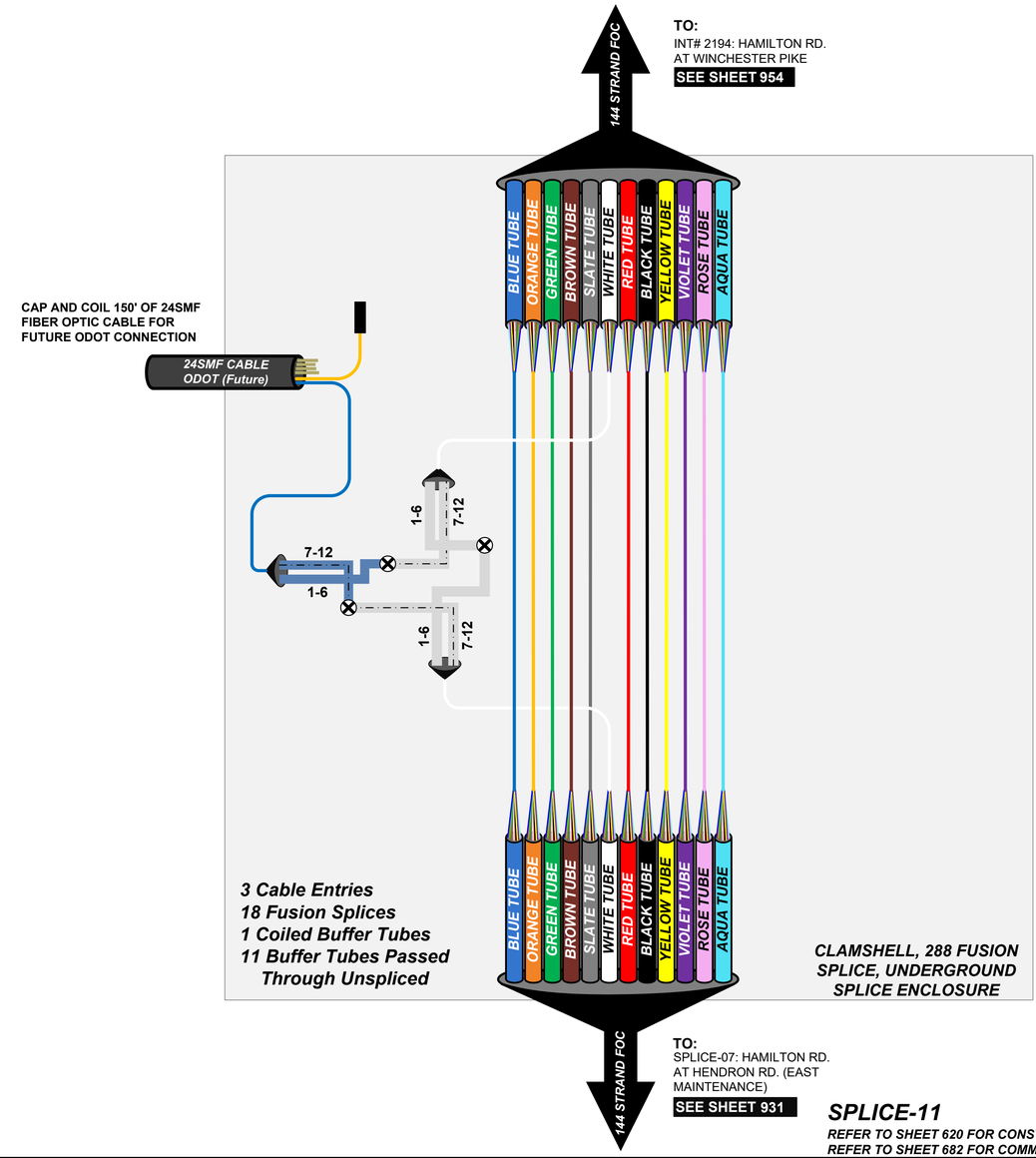
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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN





TO:
INT# 2194: HAMILTON RD. AT WINCHESTER PIKE
SEE SHEET 954

TO:
SPLICE-07: HAMILTON RD. AT HENDRON RD. (EAST MAINTENANCE)
SEE SHEET 931

SPLICE-11

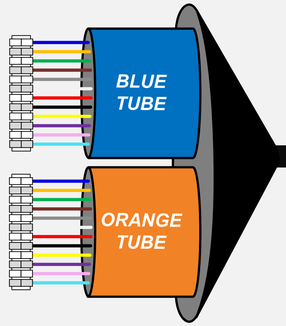
REFER TO SHEET 620 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

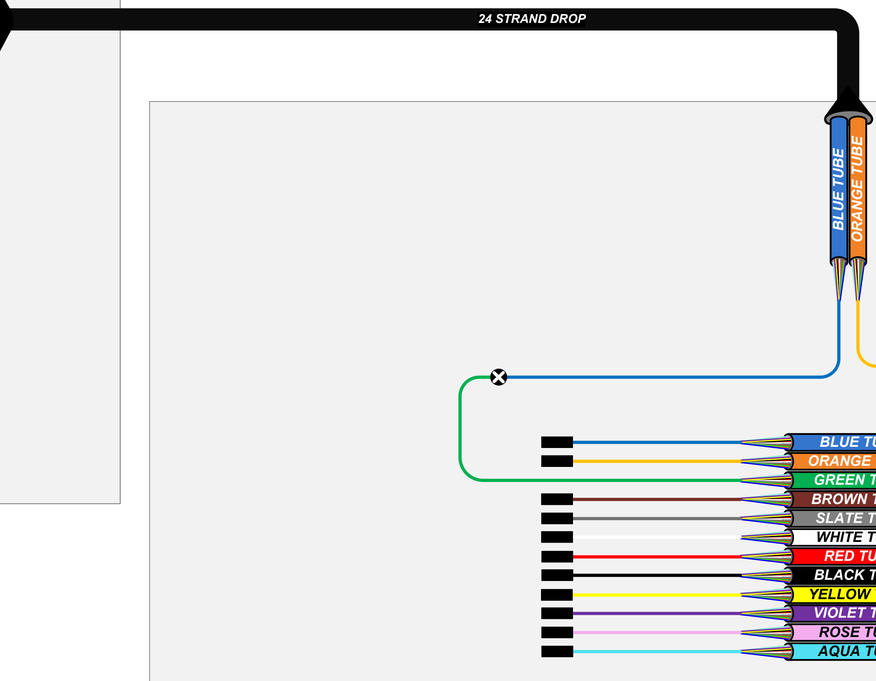
CIP: 540007 - 100006
PID NUMBER: 82573

SPLICE-11: SR-317 AT US-33
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

PATCHING TO EXISTING COMMUNICATIONS EQUIPMENT WILL BE PERFORMED BY FCEO TECHNOLOGY STAFF





TO:
SPLICE-07: HAMILTON RD. AT HENDRON RD. (EAST MAINTENANCE)
SEE SHEET 931

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

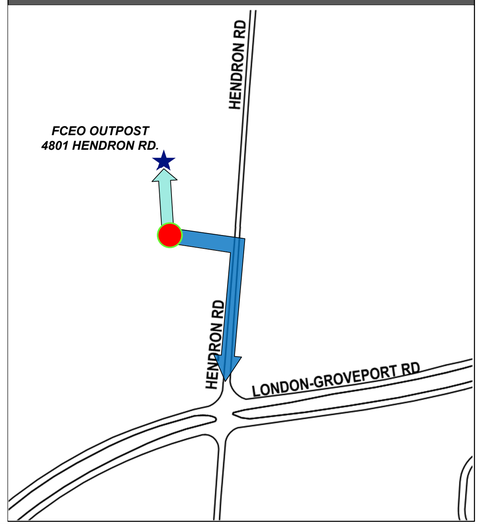
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



FCEO OUTPOST (EAST MAINTENANCE)

REFER TO SHEET 613 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

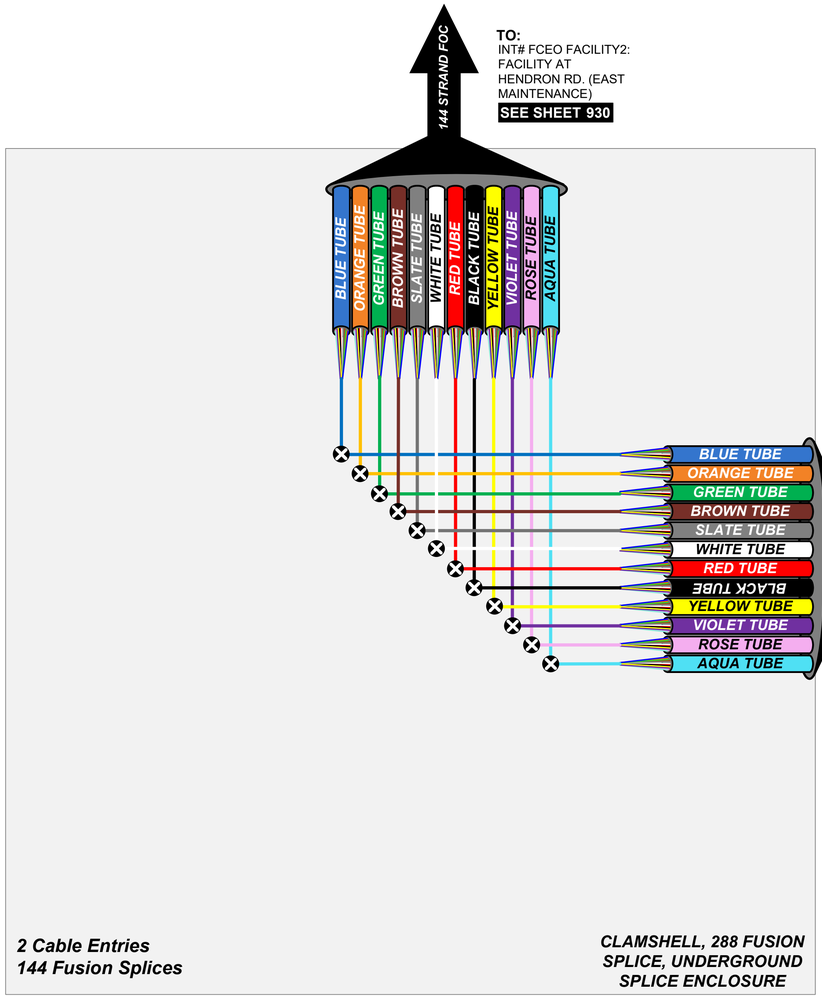
INT# FCEO FACILITY2: FACILITY AT HENDRON RD. (EAST MAINTENANCE)
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

930
1000

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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE-07

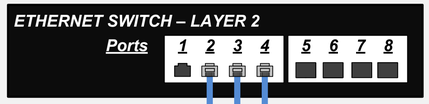
REFER TO SHEET 613 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

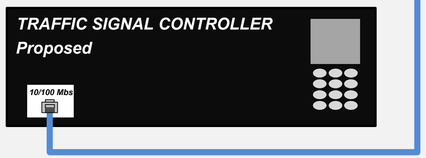
CIP: 540007 - 100006
PID NUMBER: 82573

SPLICE-07: HAMILTON RD. AT HENDRON RD. (EAST MAINTENANCE)
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY





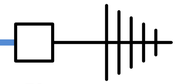
ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 1111: GALLOWAY RD. AT SULLIVANT AVE.
SEE SHEET 933

PORT 4: INT# 1094: HALL RD. AT NORTON RD.
SEE SHEET 937



TO:
INT# 1111: GALLOWAY RD. AT SULLIVANT AVE.
SEE SHEET 933

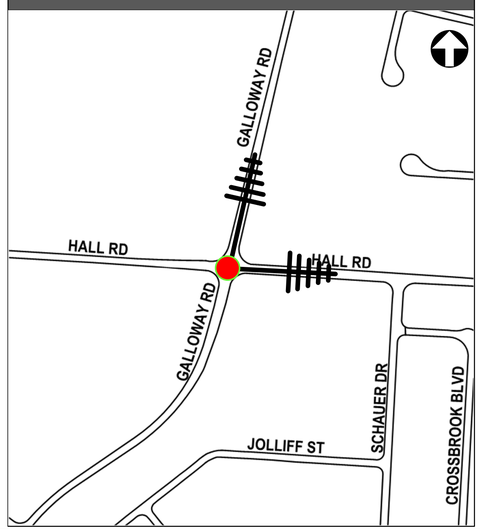


TO:
INT# 1094: HALL RD. AT NORTON RD.
SEE SHEET 937

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4730

REFER TO SHEET 97 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

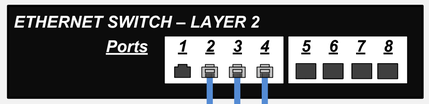
INT# SIG4730: GALLOWAY RD. AT HALL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

932
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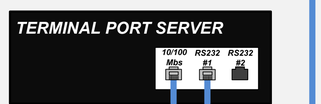
TRAFFIC SIGNAL CABINET ASSEMBLY

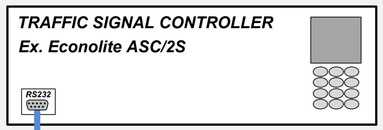


ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 1109: BROAD ST. AT GALLOWAY RD.
SEE SHEET 934

PORT 4: INT# SIG4730: GALLOWAY RD. AT HALL RD.
SEE SHEET 932



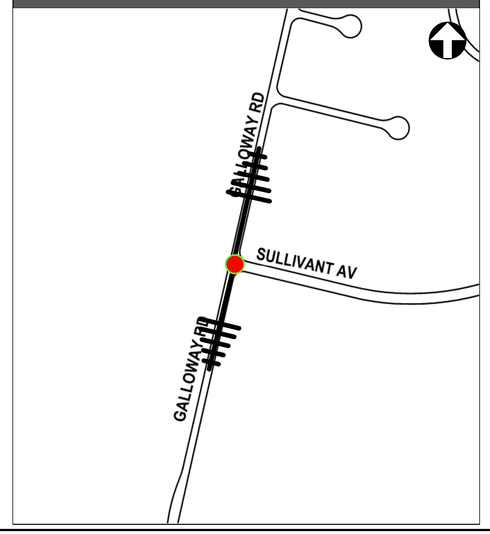




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1111

REFER TO SHEET 98 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1111: GALLOWAY RD. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

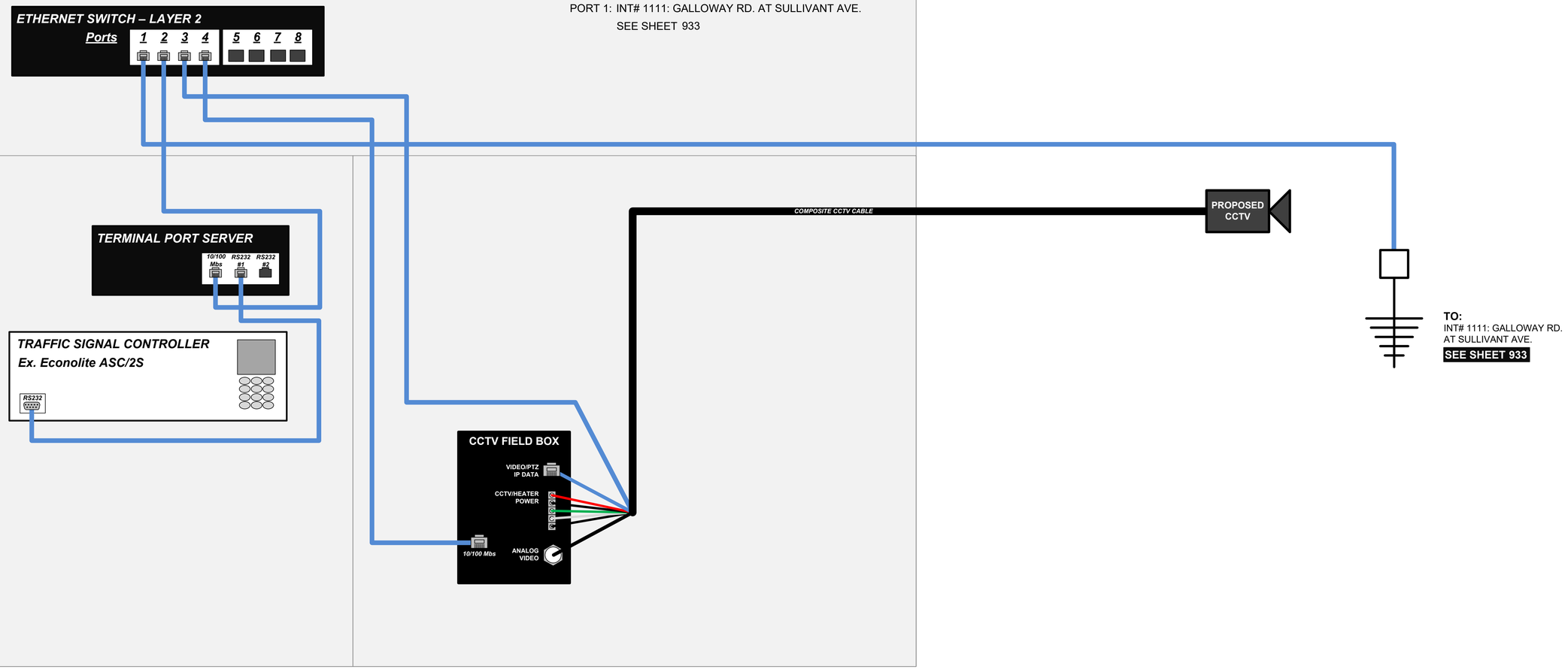
933
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

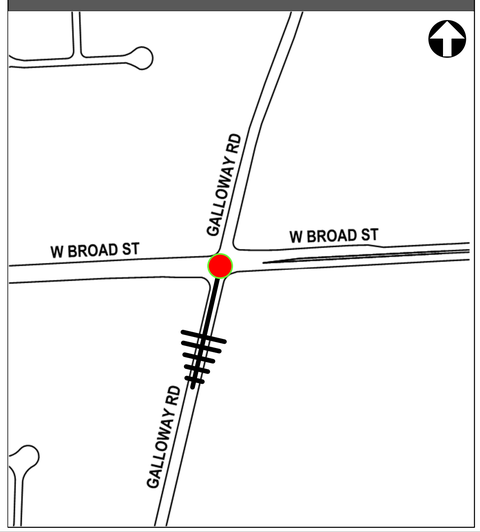
PORT 1: INT# 1111: GALLOWAY RD. AT SULLIVANT AVE.
SEE SHEET 933



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1109

REFER TO SHEET 99 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1109: BROAD ST. AT GALLOWAY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

934
1000

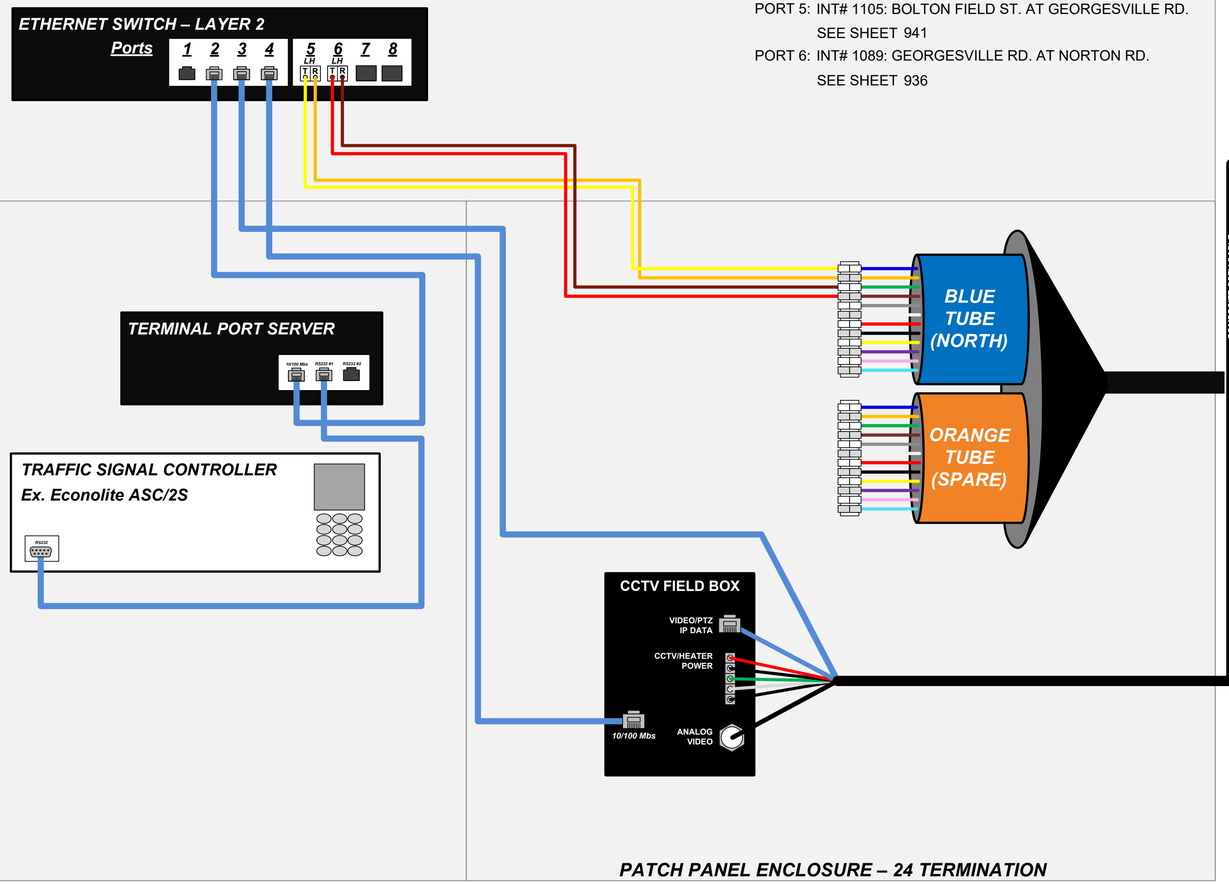
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TRAFFIC SIGNAL CABINET ASSEMBLY

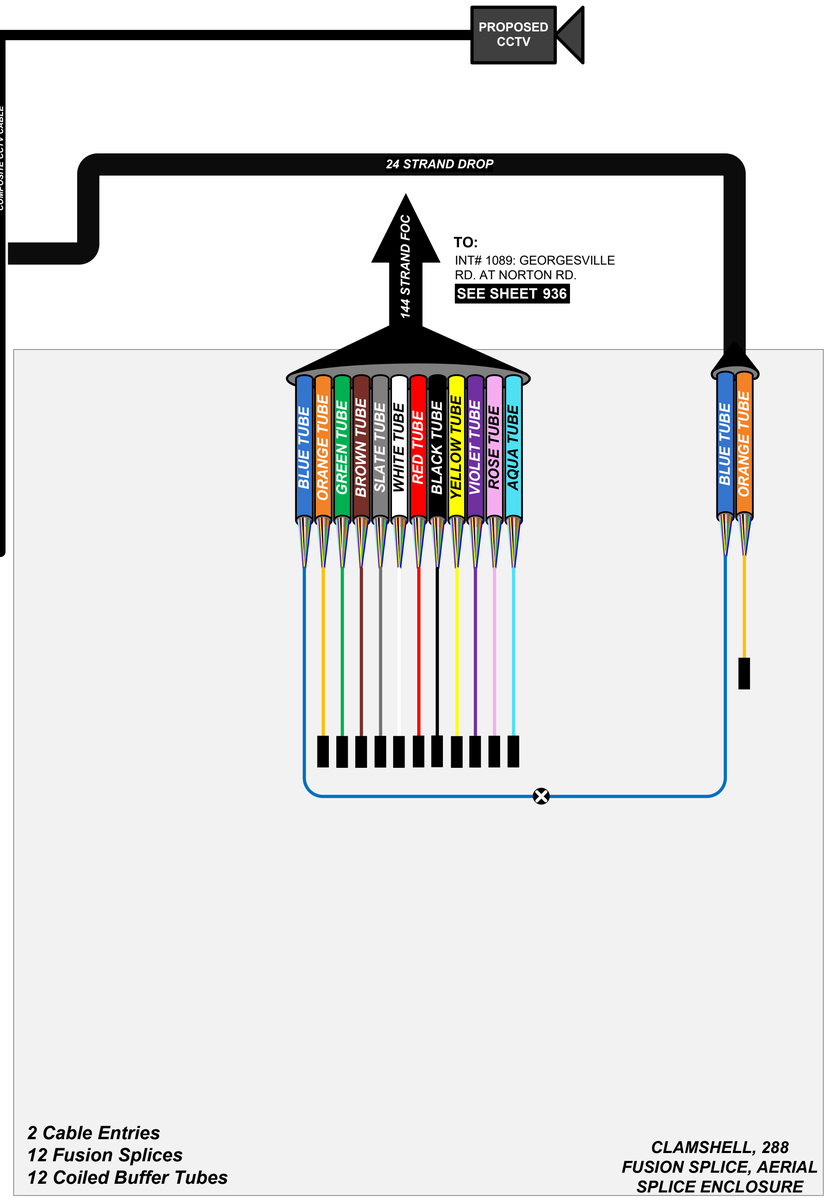
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1105: BOLTON FIELD ST. AT GEORGESVILLE RD.
SEE SHEET 941

PORT 6: INT# 1089: GEORGESVILLE RD. AT NORTON RD.
SEE SHEET 936



PATCH PANEL ENCLOSURE – 24 TERMINATION



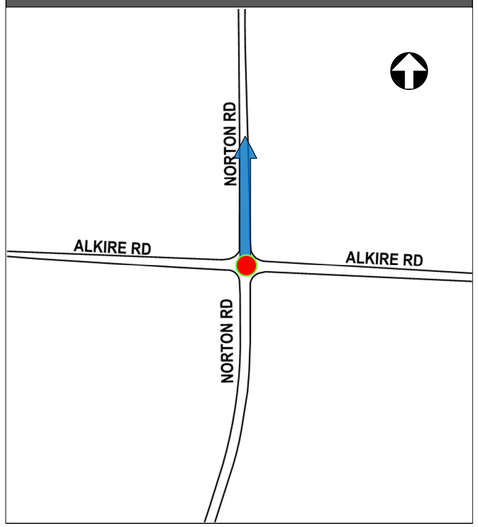
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1095

REFER TO SHEET 104 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

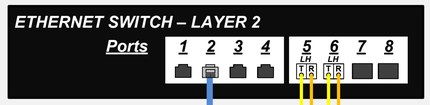
CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1095: ALKIRE RD. AT NORTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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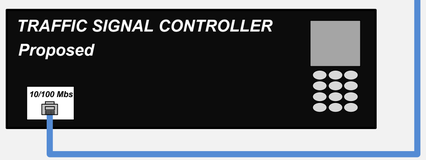
TRAFFIC SIGNAL CABINET ASSEMBLY

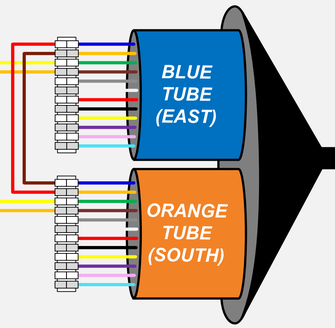


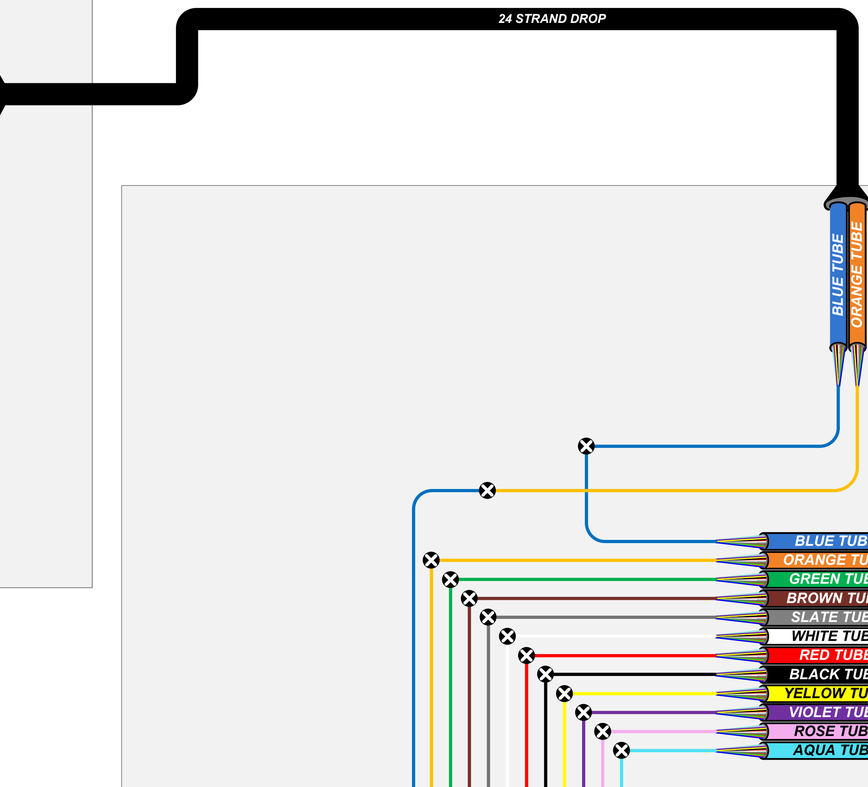
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1096: GEORGESVILLE RD. AT HOLT RD.
SEE SHEET 945

PORT 6: INT# 1095: ALKIRE RD. AT NORTON RD.
SEE SHEET 935







3 Cable Entries
156 Fusion Splices

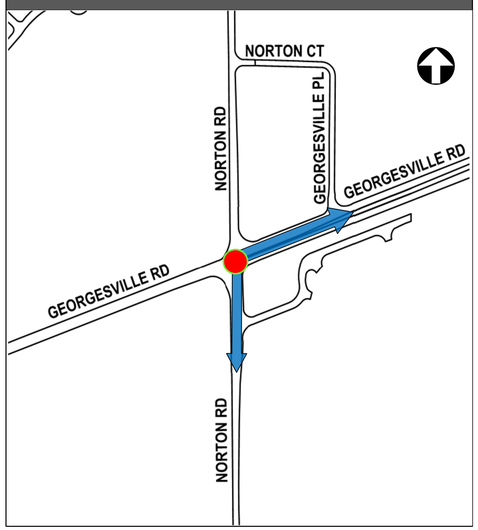
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1089

REFER TO SHEET 105 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1089: GEORGESVILLE RD. AT NORTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

936
1000

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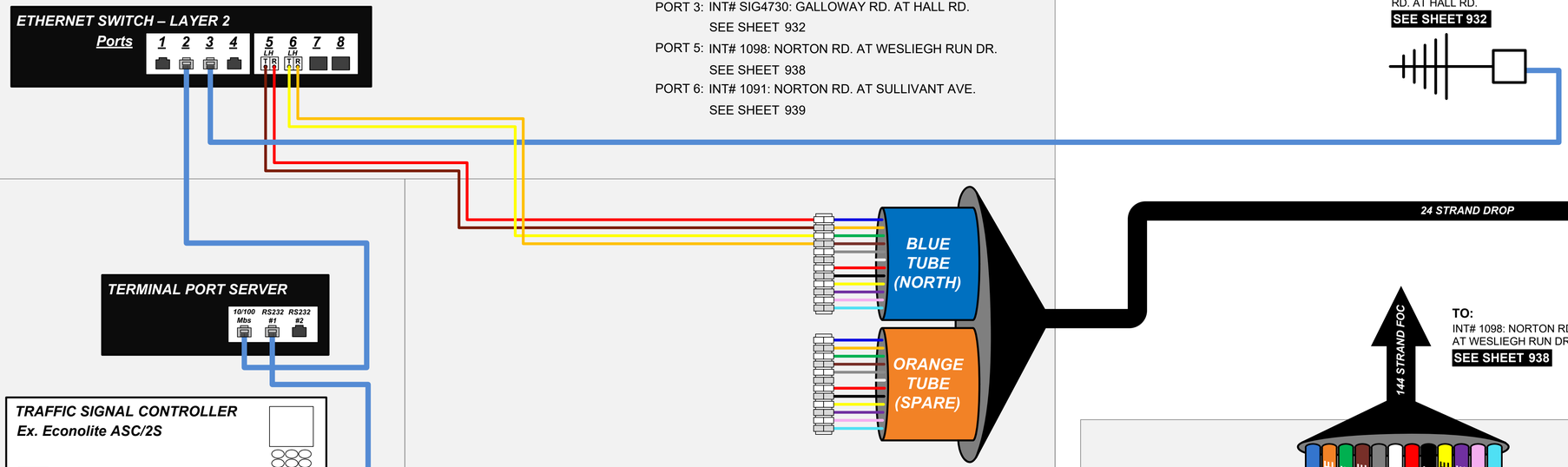
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# SIG4730: GALLOWAY RD. AT HALL RD.
SEE SHEET 932

PORT 5: INT# 1098: NORTON RD. AT WESLIEGH RUN DR.
SEE SHEET 938

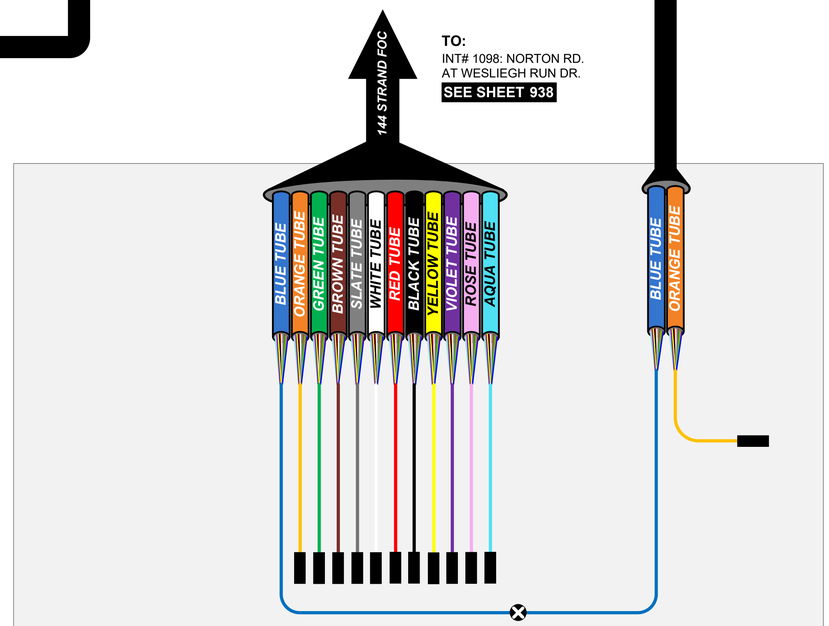
PORT 6: INT# 1091: NORTON RD. AT SULLIVANT AVE.
SEE SHEET 939



TO:
INT# SIG4730: GALLOWAY RD. AT HALL RD.
SEE SHEET 932

24 STRAND DROP

TO:
INT# 1098: NORTON RD. AT WESLIEGH RUN DR.
SEE SHEET 938



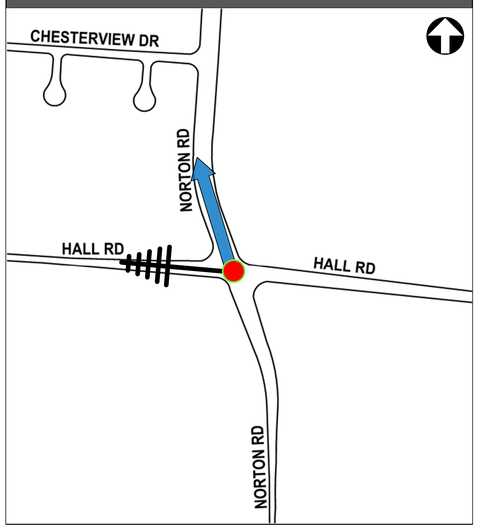
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1094
REFER TO SHEET 106 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1094: HALL RD. AT NORTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

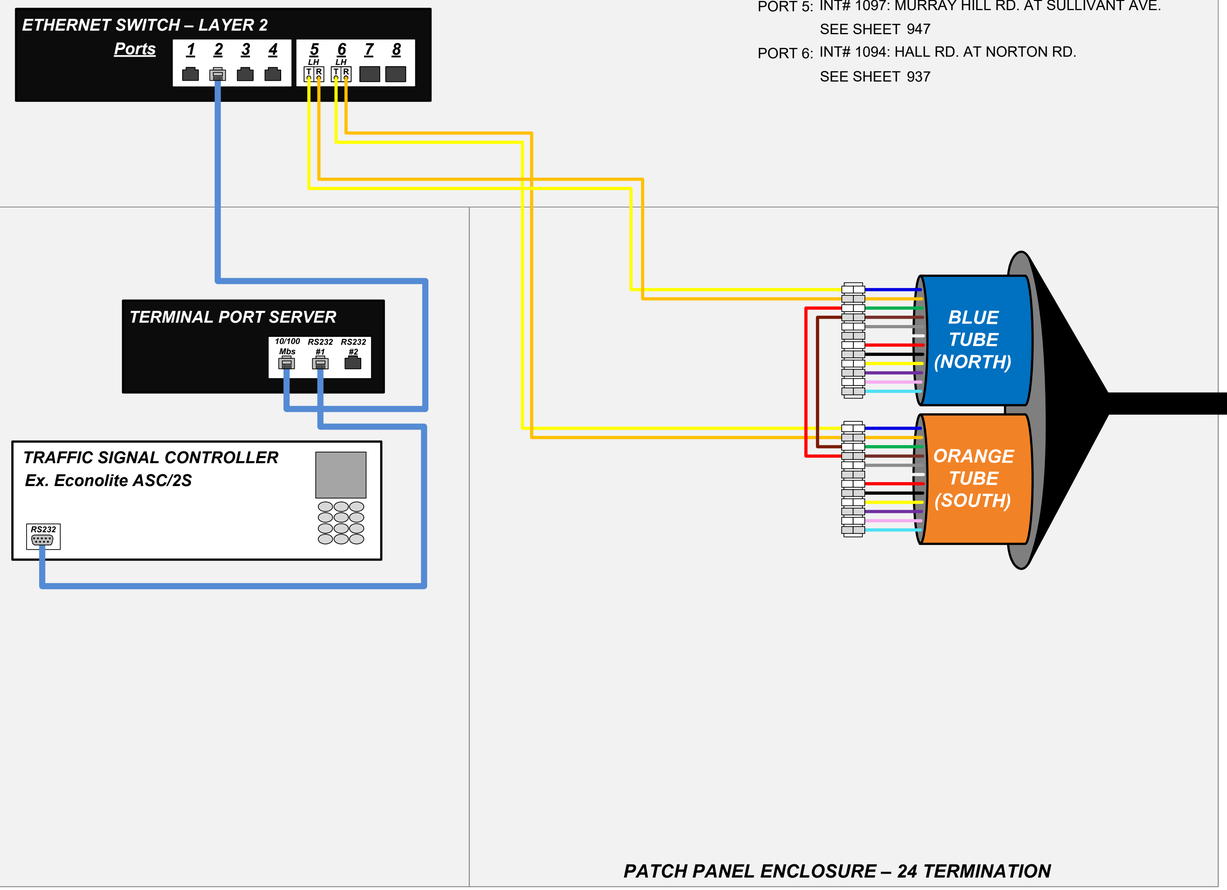
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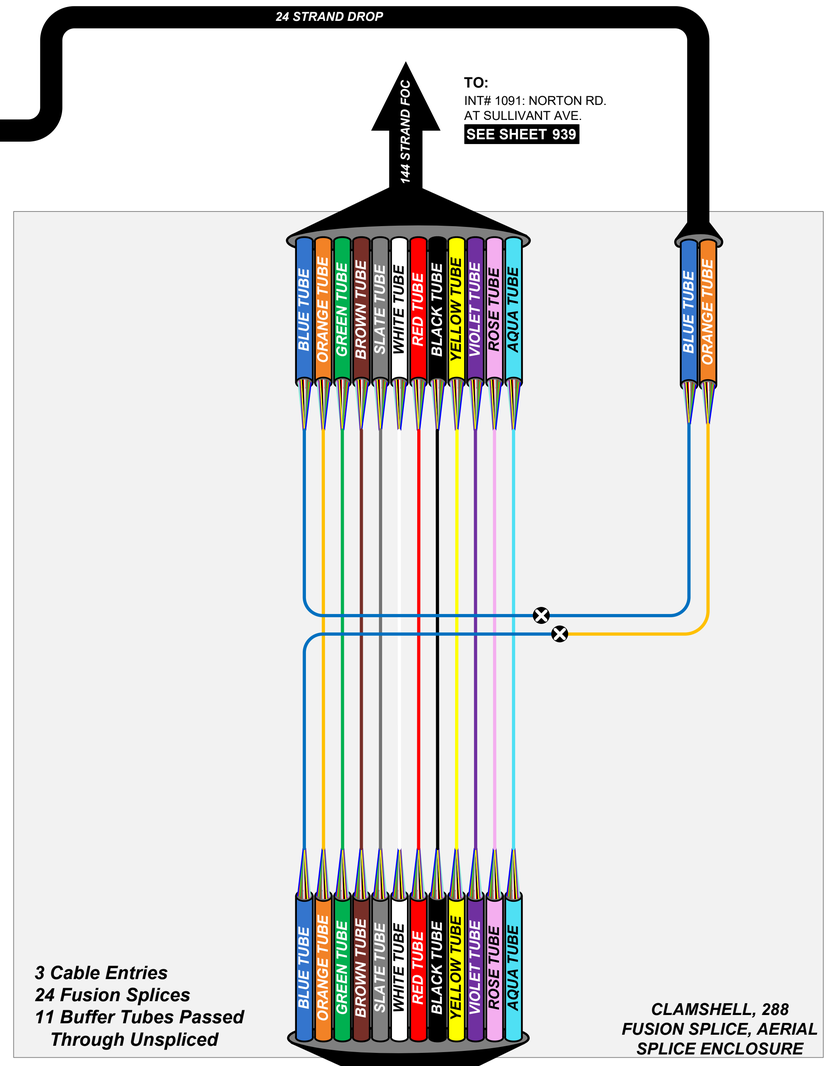
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1097: MURRAY HILL RD. AT SULLIVANT AVE.
SEE SHEET 947

PORT 6: INT# 1094: HALL RD. AT NORTON RD.
SEE SHEET 937

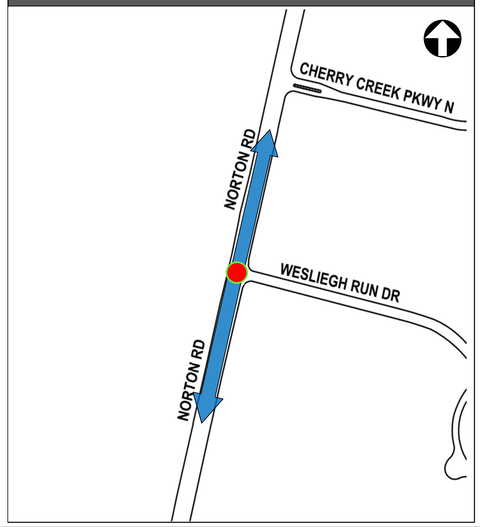




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1098

REFER TO SHEET 108 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1098: NORTON RD. AT WESLIEGH RUN DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

938
1000

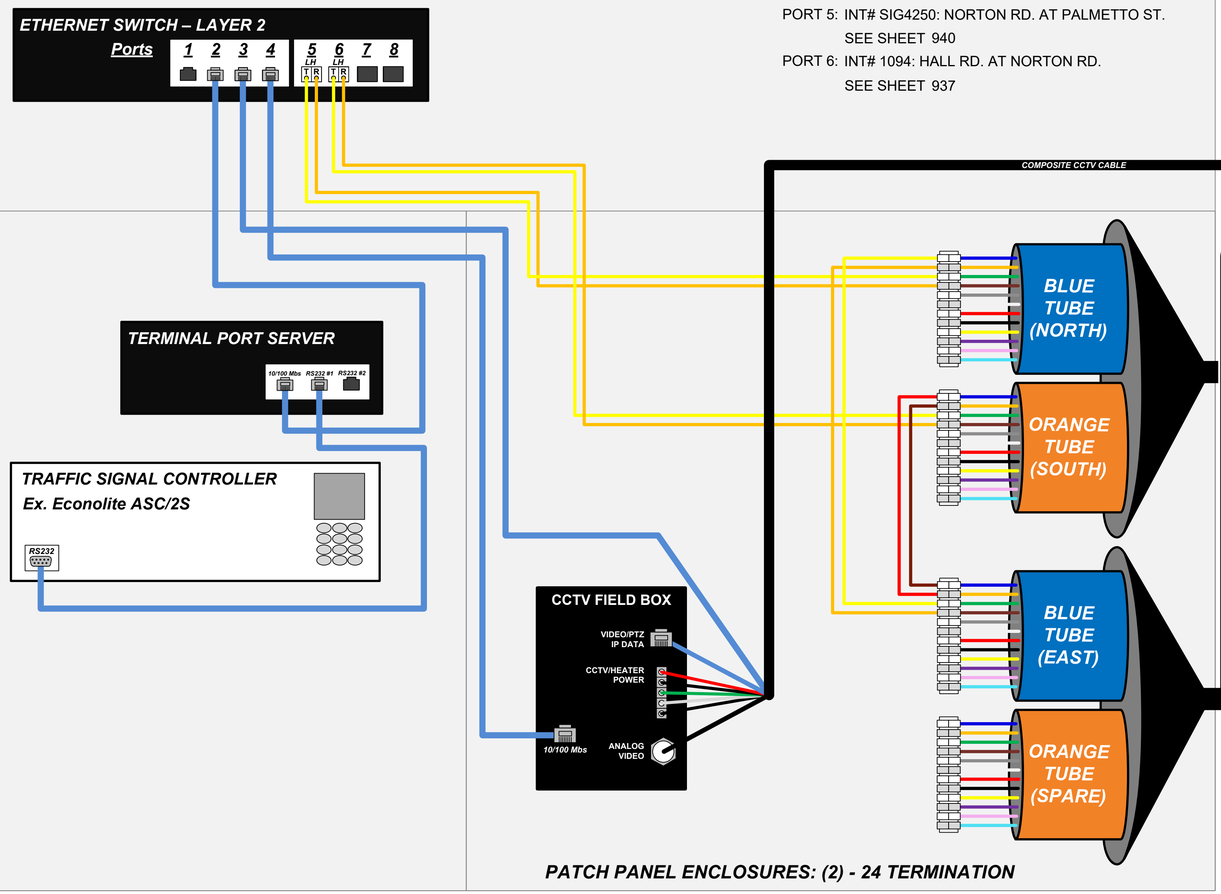
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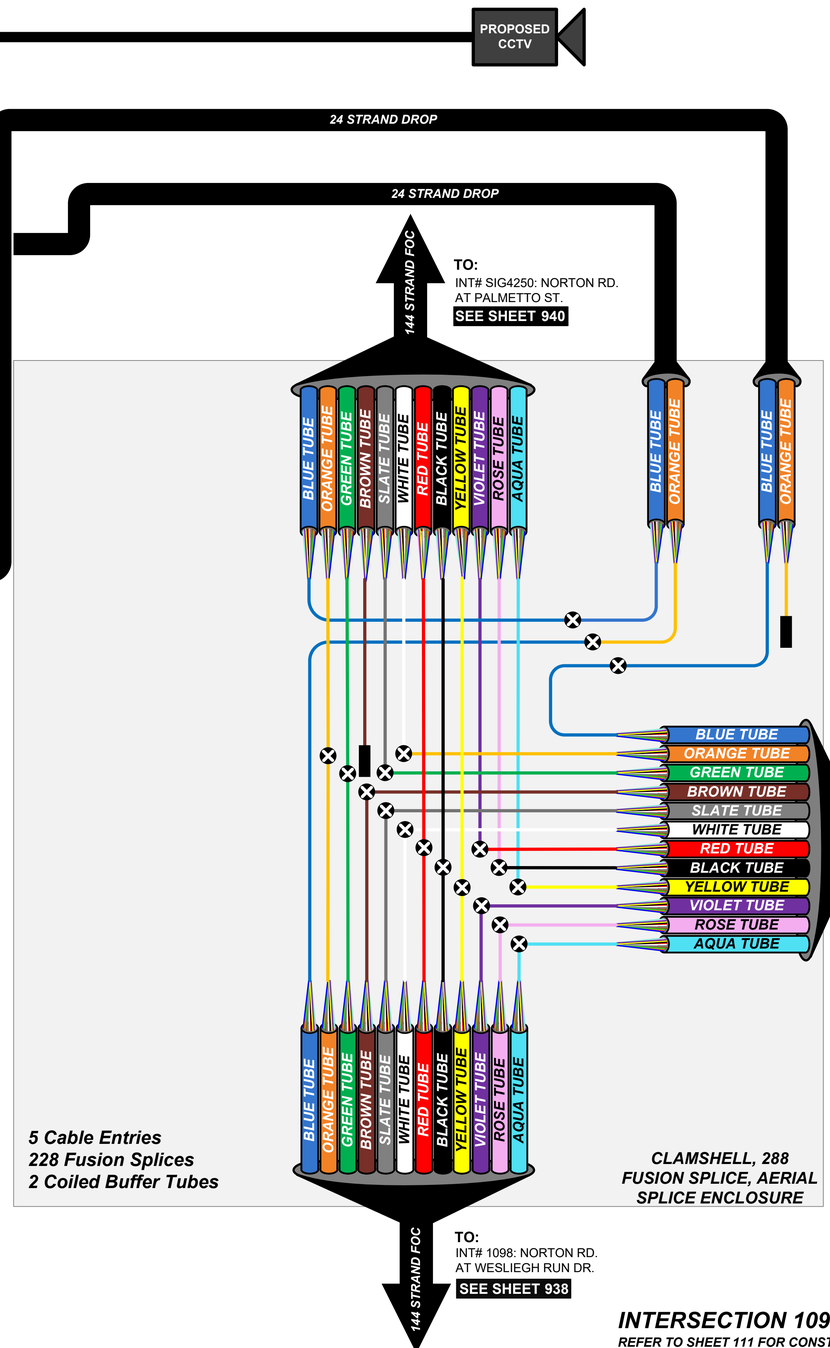
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4250: NORTON RD. AT PALMETTO ST.
SEE SHEET 940

PORT 6: INT# 1094: HALL RD. AT NORTON RD.
SEE SHEET 937

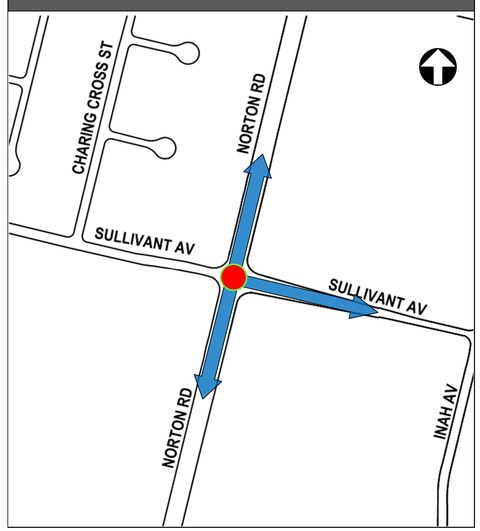




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1091

REFER TO SHEET 111 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

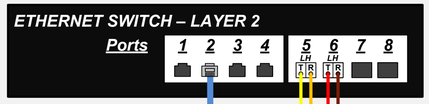
INT# 1091: NORTON RD. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

939
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

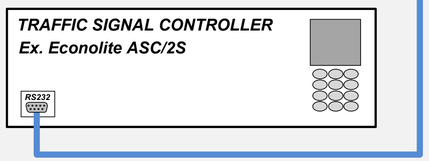


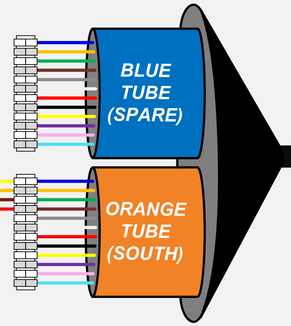
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1033: INDUSTRIAL MILE AVE. AT SULLIVANT AVE.
SEE SHEET 948

PORT 6: INT# 1091: NORTON RD. AT SULLIVANT AVE.
SEE SHEET 939

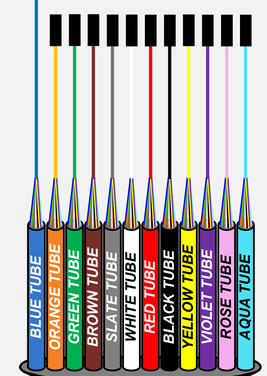






24 STRAND DROP





2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

144 STRAND FOC

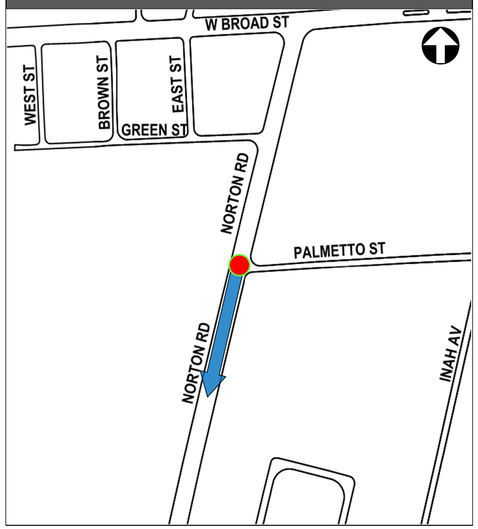
TO:
INT# 1091: NORTON RD.
AT SULLIVANT AVE.
SEE SHEET 939

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4250

REFER TO SHEET 112 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# SIG4250: NORTON RD. AT PALMETTO ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

940
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1104: ALKIRE RD. AT HOLT RD.
SEE SHEET 943

PORT 6: INT# 1095: ALKIRE RD. AT NORTON RD.
SEE SHEET 935

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH/ZX T R)

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

EXISTING WIRELESS LINK TO
INT# 1096: GEORGESVILLE RD. AT HOLT RD.
SEE SHEET 945

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# 1089: GEORGESVILLE RD. AT NORTON RD.
SEE SHEET 936

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

TO:
INT# 1096: GEORGESVILLE RD. AT HOLT RD.
SEE SHEET 945

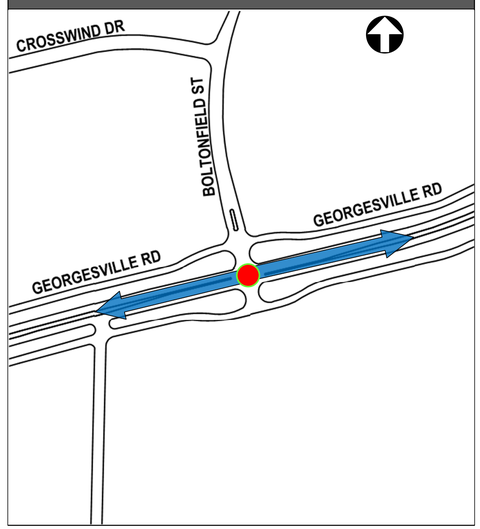
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1105
REFER TO SHEET 116 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

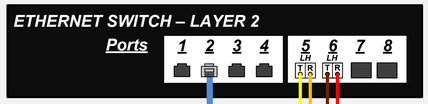
INT# 1105: BOLTON FIELD ST. AT GEORGESVILLE RD.
COMMUNICATIONS DIAGRAM

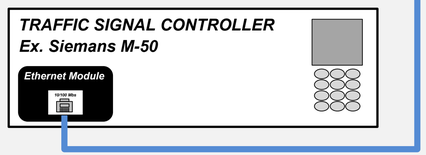
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

941
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

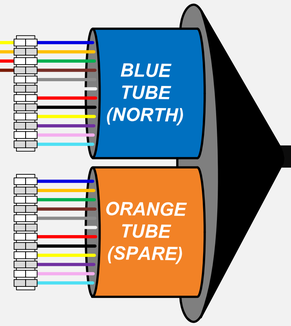


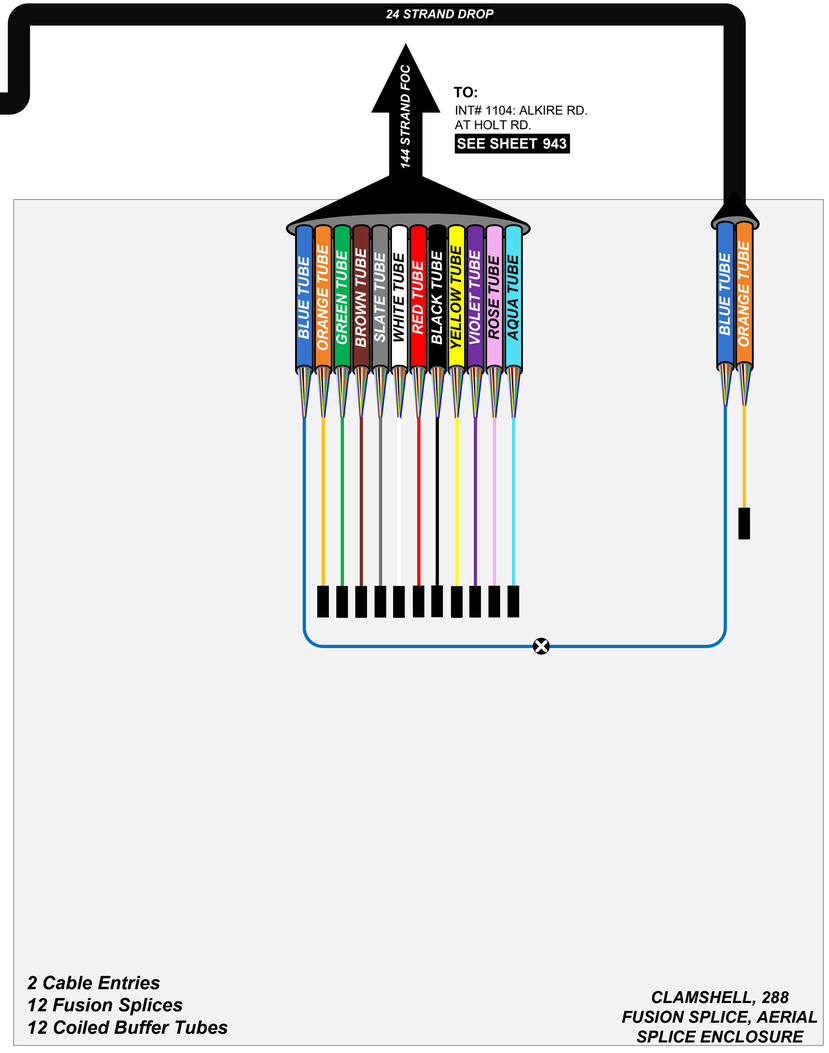


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1107: GEORGESVILLE SQUARE DR. AT HOLT RD.
SEE SHEET 944

PORT 6: INT# 1104: ALKIRE RD. AT HOLT RD.
SEE SHEET 943



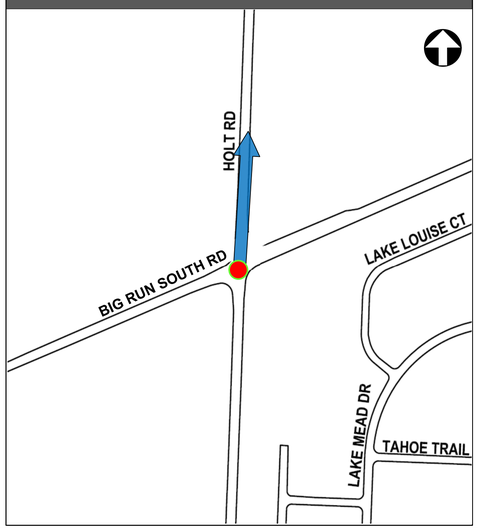


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4785

REFER TO SHEET 137 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# SIG4785: BIG RUN SOUTH RD. AT HOLT RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

942
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1105: BOLTON FIELD ST. AT GEORGESVILLE RD.
SEE SHEET 941

PORT 6: INT# SIG4785: BIG RUN SOUTH RD. AT HOLT RD.
SEE SHEET 942

EXISTING WIRELESS LINK TO
INT# 1107: GEORGESVILLE SQUARE DR. AT HOLT RD.
SEE SHEET 944

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH 6 LH 7 8

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

CCTV FIELD BOX
VIDEO/PTZ IP DATA
CCTV/HEATER POWER
120VAC
10/100 Mbs
ANALOG VIDEO

PATCH PANEL ENCLOSURE – 24 TERMINATION

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

144 STRAND FOC

TO:
INT# 1107: GEORGESVILLE SQUARE DR. AT HOLT RD.
SEE SHEET 944

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***

3 Cable Entries
156 Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

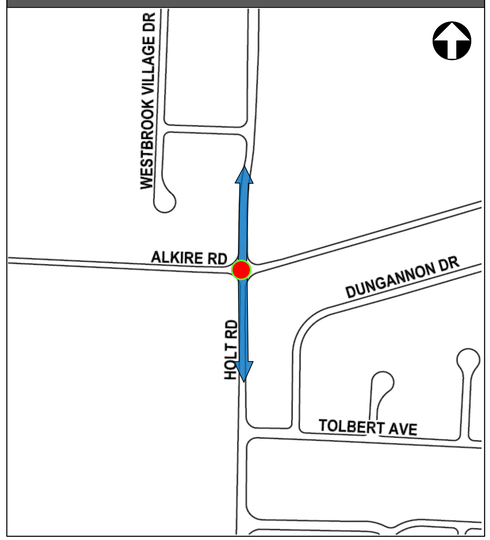
144 STRAND FOC

TO:
INT# SIG4785: BIG RUN SOUTH RD. AT HOLT RD.
SEE SHEET 942

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1104
REFER TO SHEET 140 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1104: ALKIRE RD. AT HOLT RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

943
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 LH T R 6 LH T R 7 8

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1100: GEORGESVILLE RD. AT I-270 SB RAMPS
SEE SHEET 946

PORT 6: INT# SIG4785: BIG RUN SOUTH RD. AT HOLT RD.
SEE SHEET 942

EXISTING WIRELESS LINK TO
INT# 1096: GEORGESVILLE RD. AT HOLT RD.
SEE SHEET 945

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 1096: GEORGESVILLE RD. AT HOLT RD.
SEE SHEET 945

EXISTING WIRELESS LINK TO
INT# 1104: ALKIRE RD. AT HOLT RD.
SEE SHEET 943

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 – 24 TERMINATION

3 Cable Entries
156 Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

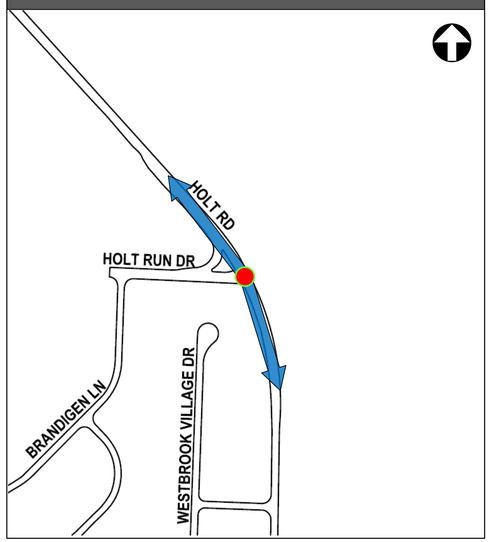
144 STRAND FOC

TO:
INT# 1104: ALKIRE RD. AT HOLT RD.
SEE SHEET 943

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1107

REFER TO SHEET 142 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1107: GEORGESVILLE SQUARE DR. AT HOLT RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

944
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1099: GEORGESVILLE RD. AT I-270 NB RAMPS

PORT 6: INT# 1089: GEORGESVILLE RD. AT NORTON RD.
SEE SHEET 936

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO
- RS-485

COMPOSITE CCTV CABLE

PROPOSED CCTV

[1]

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

EXISTING WIRELESS LINK TO
INT# 1105: BOLTON FIELD ST. AT GEORGESVILLE RD.
SEE SHEET 941

EXISTING WIRELESS LINK TO
INT# 1100: GEORGESVILLE RD. AT I-270 SB RAMPS
SEE SHEET 946

EXISTING WIRELESS LINK TO
INT# 1107: GEORGESVILLE SQUARE DR. AT HOLT RD.
SEE SHEET 944

24 STRAND DROP

24 STRAND DROP

BLUE TUBE / ORANGE TUBE

BLUE TUBE / ORANGE TUBE

144 STRAND FOC

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

TO:
INT# 1105: BOLTON FIELD ST. AT GEORGESVILLE RD.
SEE SHEET 941

TO:
INT# 1100: GEORGESVILLE RD. AT I-270 SB RAMPS
SEE SHEET 946

5 Cable Entries
204 Fusion Splices
6 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

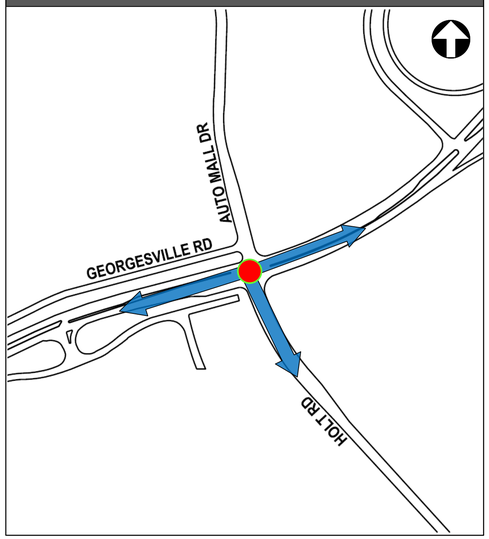
144 STRAND FOC

TO:
INT# 1107: GEORGESVILLE SQUARE DR. AT HOLT RD.
SEE SHEET 944

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



[1] DISCONNECT EXISTING WIRELESS LINK FROM ETHERNET SWITCH. REPLACE CONNECTION TO CCTV FIELD BOX AS SHOWN ON PLAN ABOVE.

INTERSECTION 1096

REFER TO SHEET 117 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1096: GEORGESVILLE RD. AT HOLT RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270004.5: I-270 AT GEORGESVILLE RD.

PORT 6: **INT# 1107: GEORGESVILLE SQUARE DR. AT HOLT RD.**
(Revsied) SEE SHEET 944

EXISTING ETHERNET SWITCH - 1 – LAYER 2

Ports 1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3
Ethernet Module
10/100 Mb/s

1

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

EXISTING WIRELESS LINK TO
INT# 1096:
GEORGESVILLE RD.
AT HOLT RD.
SEE SHEET 945

EXISTING 24 STRAND DROP

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# 1096:
GEORGESVILLE RD.
AT HOLT RD.
SEE SHEET 945

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

EXISTING 144 STRAND FOC

TO:
INT# 1099:
GEORGESVILLE RD.
AT I-270 NB RAMPS.

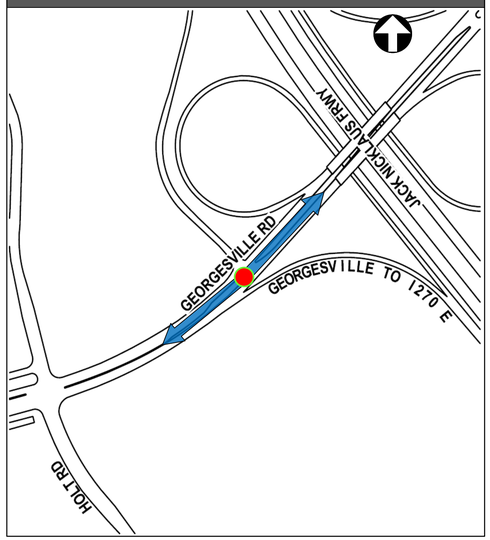
3 Cable Entries
144 Proposed Fusion Splices
156 Total Fusion Splices

EXISTING CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

[1] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

LAYER 2 ETHERNET SWITCH PORT #6 DESTINATION CHANGED FROM INT# 1099: GEORGESVILLE RD AT I-270 NB RAMPS TO INT# 1107: GEORGESVILLE SQUARE DR. AT HOLT RD.

INTERSECTION 1100
REFER TO SHEET 118 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

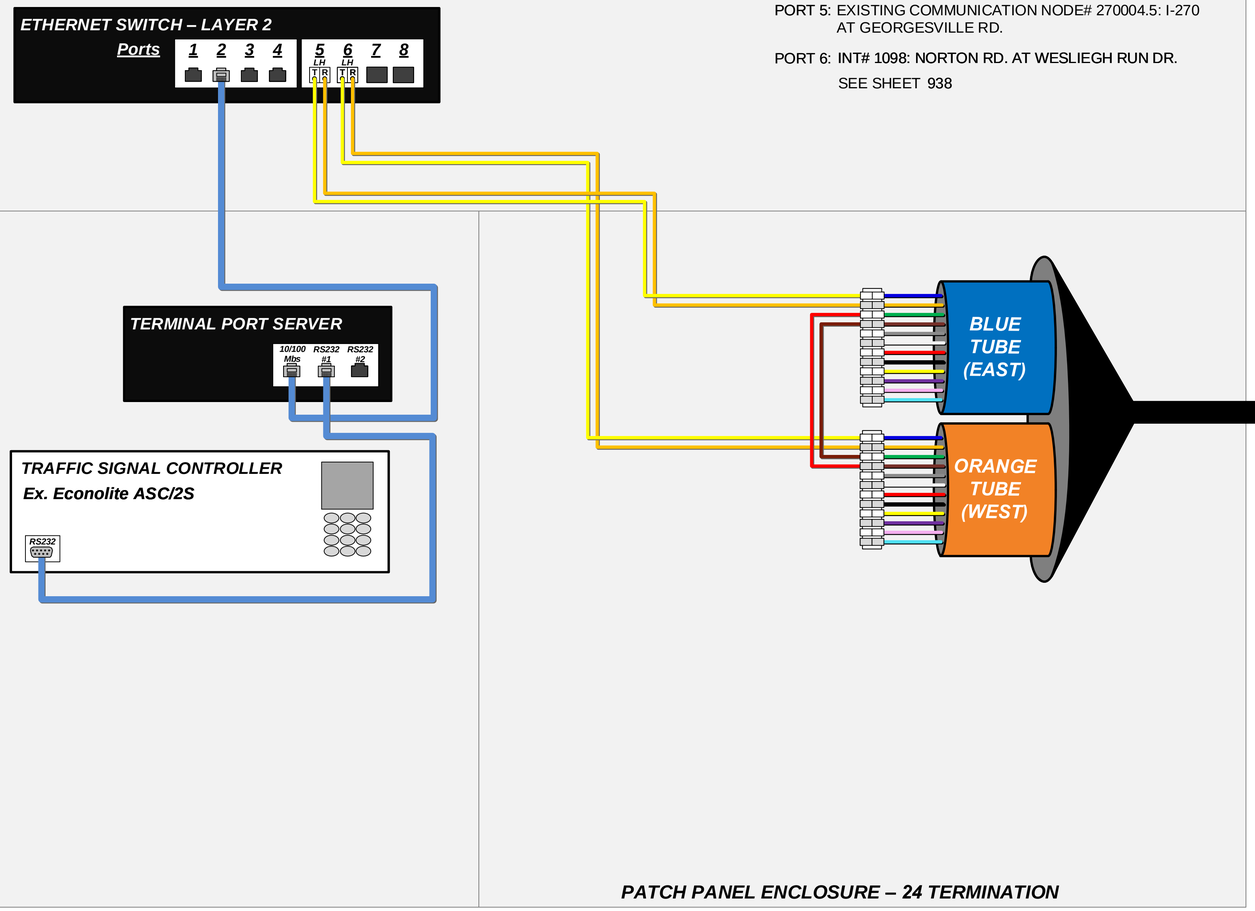
INT# 1100: GEORGESVILLE RD. AT I-270 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

946
1000

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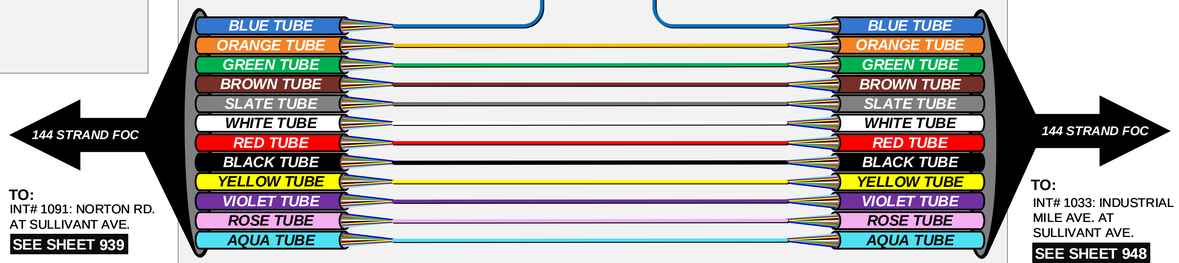
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270004.5: I-270 AT GEORGESVILLE RD.

PORT 6: INT# 1098: NORTON RD. AT WESLIEGH RUN DR.
SEE SHEET 938



TO:
INT# 1091: NORTON RD. AT SULLIVANT AVE.
SEE SHEET 939

TO:
INT# 1033: INDUSTRIAL MILE AVE. AT SULLIVANT AVE.
SEE SHEET 948

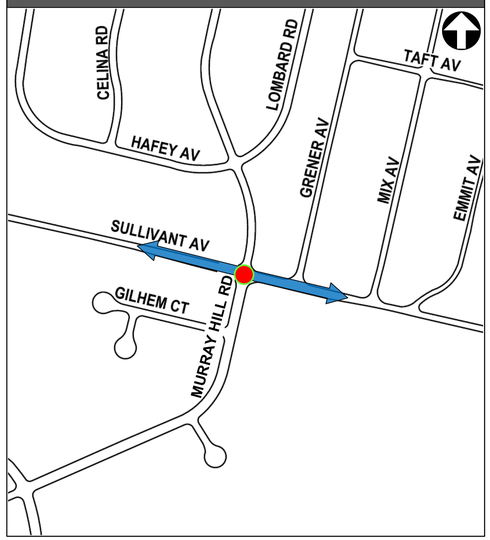
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1097
REFER TO SHEET 122 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

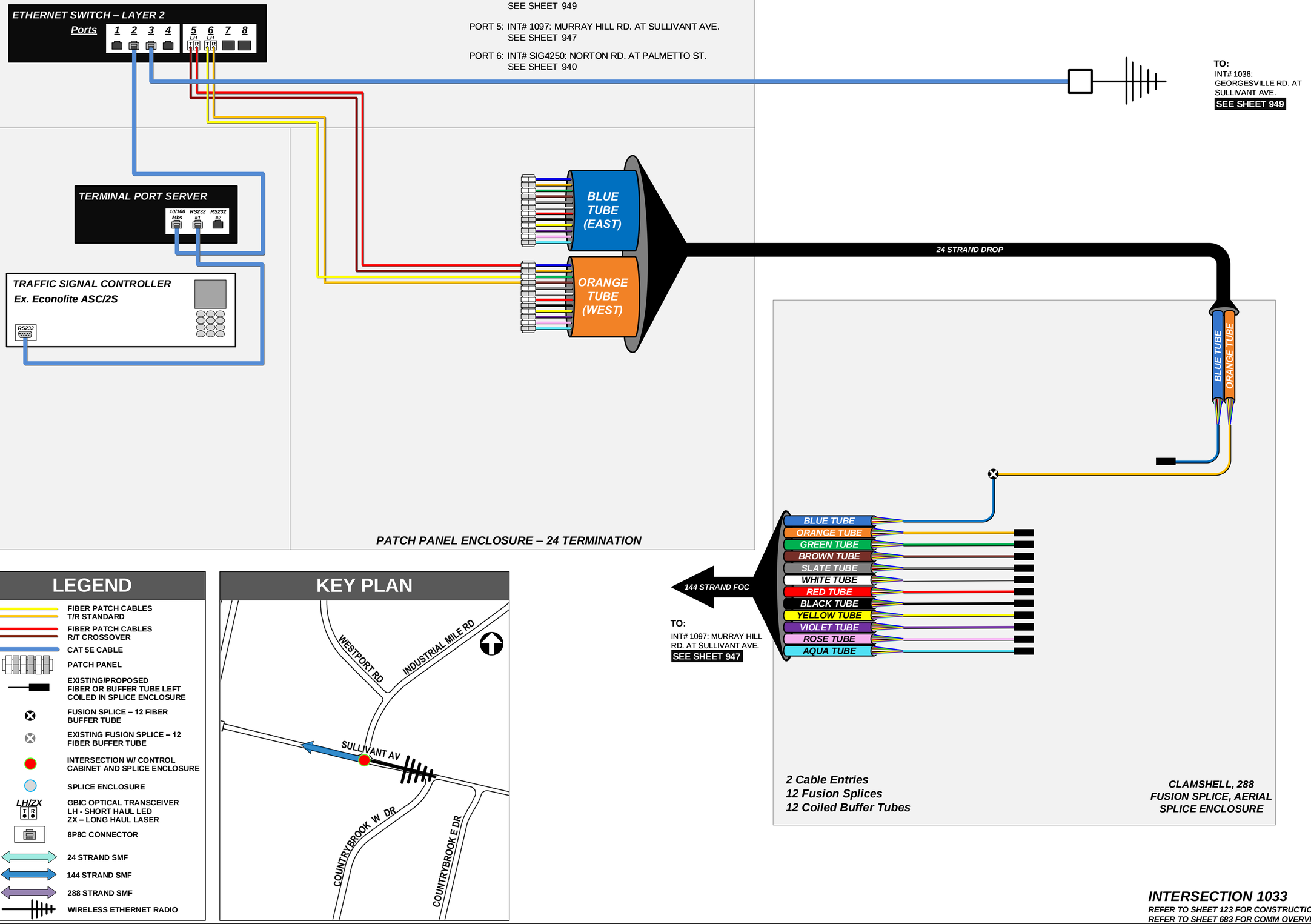
INT# 1097: MURRAY HILL RD. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

947
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 1036: GEORGESVILLE RD. AT SULLIVANT AVE.
SEE SHEET 949

PORT 5: INT# 1097: MURRAY HILL RD. AT SULLIVANT AVE.
SEE SHEET 947

PORT 6: INT# SIG4250: NORTON RD. AT PALMETTO ST.
SEE SHEET 940

TO:
INT# 1036:
GEORGESVILLE RD. AT
SULLIVANT AVE.
SEE SHEET 949

TO:
INT# 1097: MURRAY HILL
RD. AT SULLIVANT AVE.
SEE SHEET 947

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN

INTERSECTION 1033
REFER TO SHEET 123 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1033: INDUSTRIAL MILE AVE. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH - 1 – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3

Ethernet Module
10/100 Mb/s

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 1033: INDUSTRIAL MILE AVE. AT SULLIVANT AVE.
SEE SHEET 948

PORT 5: EXISTING CONNECTION TO INT# 1034:
GEORGESVILLE RD. AT SULLIVANT AVE. NORTH

PORT 6: EXISTING CONNECTION TO INT# 1053: CLIME RD.
GEORGESVILLE RD.

TO:
INT# 1033:
INDUSTRIAL MILE AVE.
AT SULLIVANT AVE.
SEE SHEET 948

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 1035: ATLANTA DR.
AT GEORGESVILLE RD.

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING 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

BLUE TUBE
ORANGE TUBE

3 Cable Entries
132 Proposed Fusion Splices
156 Total Fusion Splices

EXISTING CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

EXISTING 144 STRAND FOC

TO:
INT# 1052: CLIME RD.
NORTH AT
GEORGESVILLE RD.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1036
REFER TO SHEET 124 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1036: GEORGESVILLE RD. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

949
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 and 6: LH/ZX T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100
Ethernet Module
10/100 Mbs

NEW ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# SIG4140: GEORGESVILLE RD. AT LINCOLN PARK CT.

PORT 6: INT# SIG4335: JANITROL RD. AT PHILLIPI RD.

SEE SHEET 955

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
SPLICE-06: BROAD ST. AT GEORGESVILLE RD./PHILLIPI RD.
SEE SHEET 953

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

EXISTING SPLICE ENCLOSURE

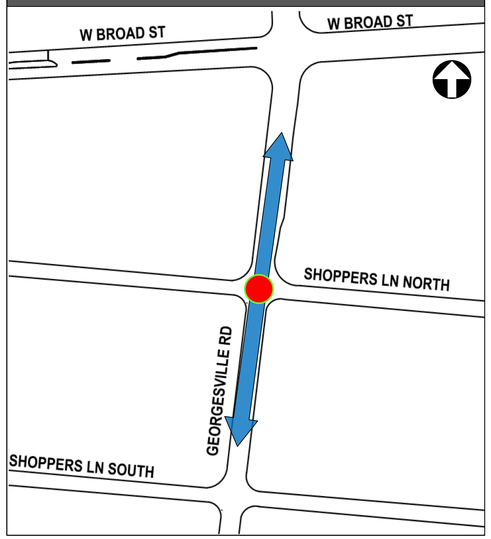
EXISTING 144 STRAND FOC

TO:
INT# SIG4146: GEORGESVILLE RD. AT SHOPPERS LANE SOUTH.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4145

REFER TO SHEET 684 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

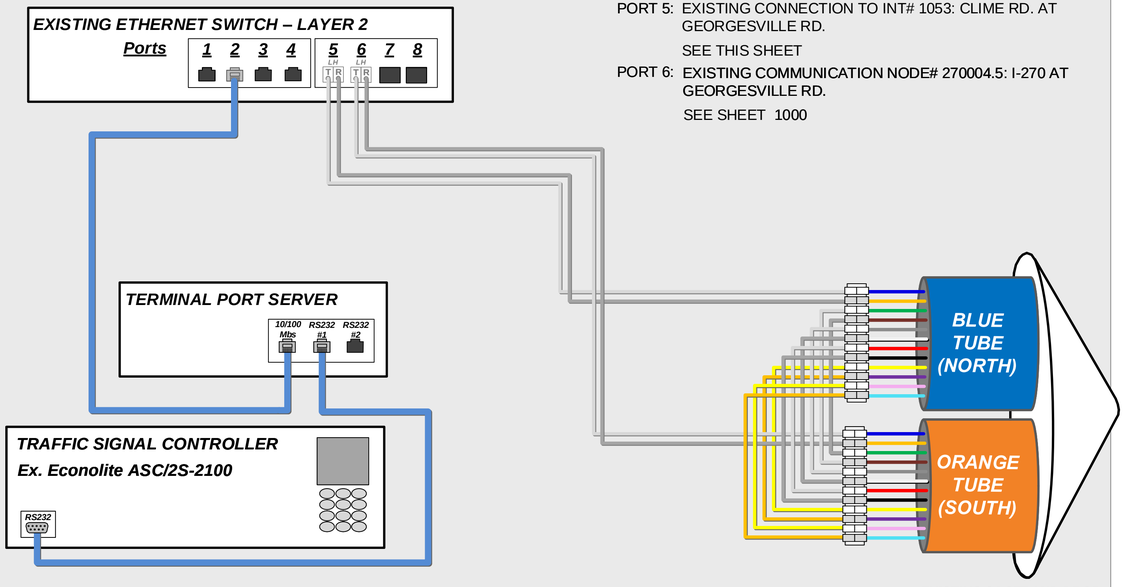
INT# SIG4145: GEORGESVILLE RD. AT SHOPPERS LANE N.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

950
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

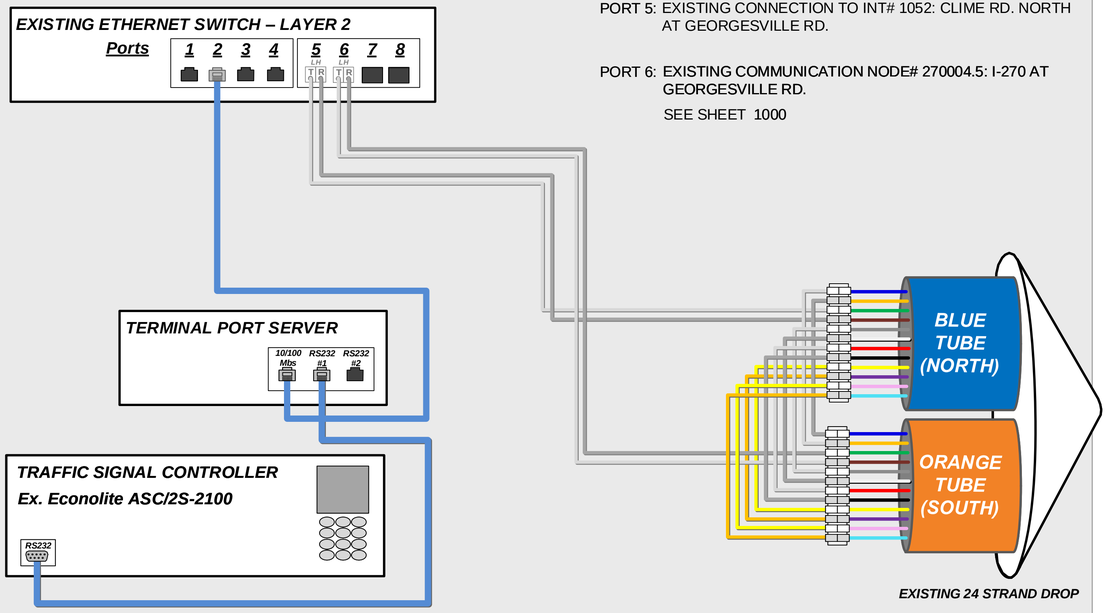
PORT 5: EXISTING CONNECTION TO INT# 1053: CLIME RD. AT GEORGESVILLE RD.
SEE THIS SHEET

PORT 6: EXISTING COMMUNICATION NODE# 270004.5: I-270 AT GEORGESVILLE RD.
SEE SHEET 1000

INTERSECTION 1101
GEORGESVILLE RD. AT PARWICK DR.
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 1052: CLIME RD. NORTH AT GEORGESVILLE RD.

PORT 6: EXISTING COMMUNICATION NODE# 270004.5: I-270 AT GEORGESVILLE RD.
SEE SHEET 1000

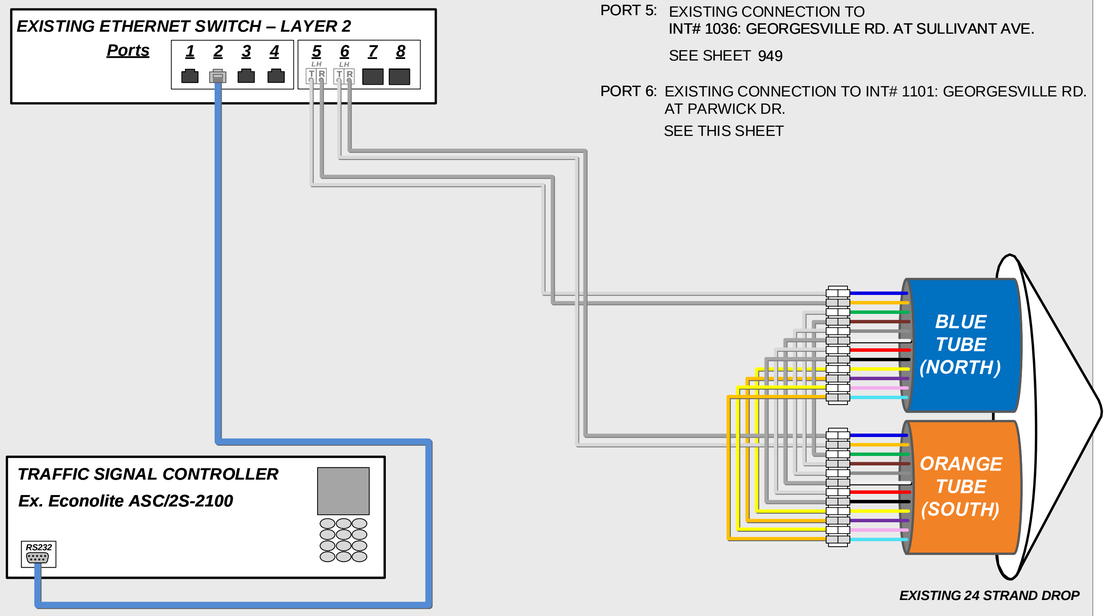
INTERSECTION 1103
GEORGESVILLE RD. AT HALL RD.
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 1036: GEORGESVILLE RD. AT SULLIVANT AVE.
SEE SHEET 949

PORT 6: EXISTING CONNECTION TO INT# 1101: GEORGESVILLE RD. AT PARWICK DR.
SEE THIS SHEET

INTERSECTION 1053
CLIME RD. AT GEORGESVILLE RD.
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

CIP: 540007 - 100006
PID NUMBER: 82573

INT#: 1101, 1103, & 1053 PATCH PANELS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

951
1000

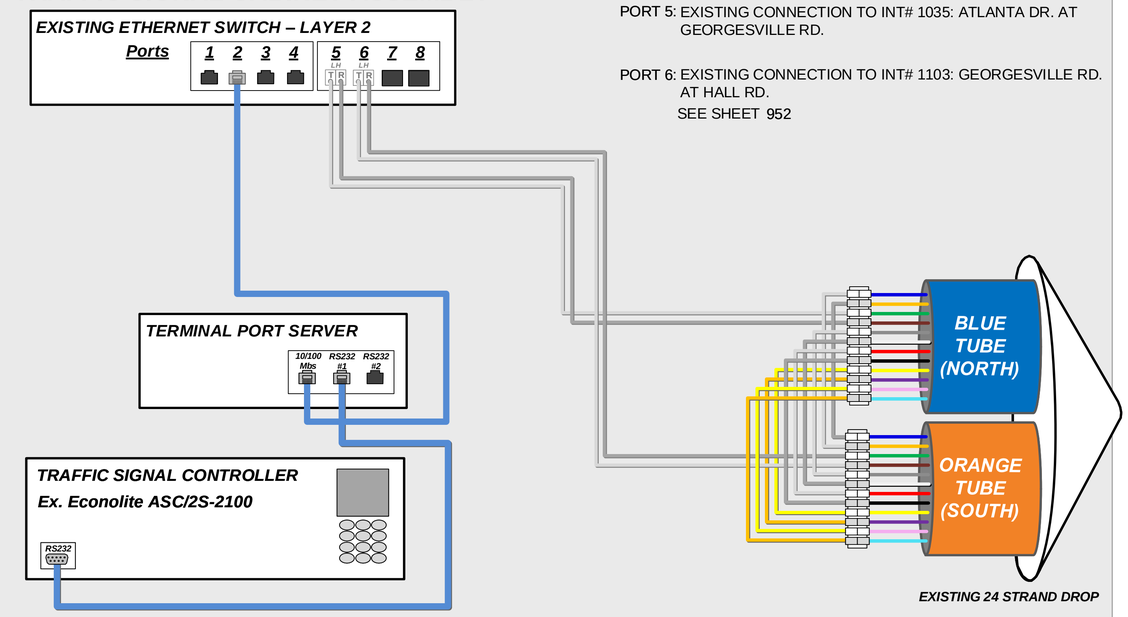
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J:\Jobs\60135\TECHPROD\Communications\Intersection Sheets\Splicing Details\943-959.vsd - 1052, 1099 layout - last saved by: skoganti 3/31/2020 5:13:41 PM - printed: 3/31/2020 5:13:41 PM

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 1035: ATLANTA DR. AT GEORGESVILLE RD.

PORT 6: EXISTING CONNECTION TO INT# 1103: GEORGESVILLE RD. AT HALL RD.

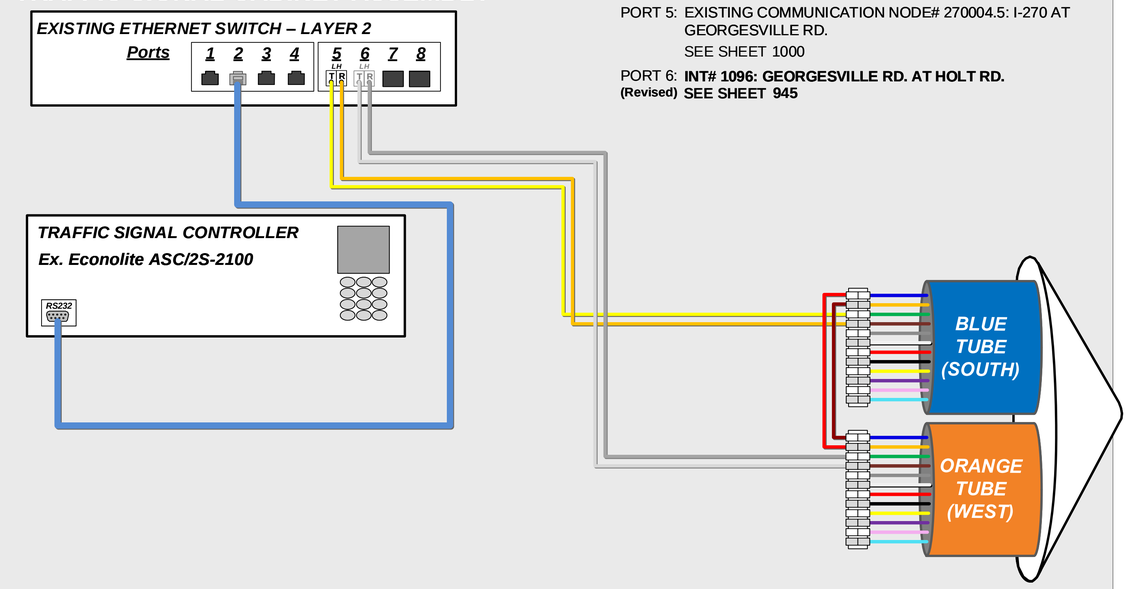
SEE SHEET 952

INTERSECTION 1052

CLIME RD. NORTH AT GEORGESVILLE RD.
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270004.5: I-270 AT GEORGESVILLE RD.
SEE SHEET 1000

PORT 6: **INT# 1096: GEORGESVILLE RD. AT HOLT RD.**
(Revised) SEE SHEET 945

INTERSECTION 1099

GEORGESVILLE RD. AT I-270 NB RAMPS
REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

CIP: 540007 - 100006
PID NUMBER: 82573

INT#: 1052 & 1099 PATCH PANELS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

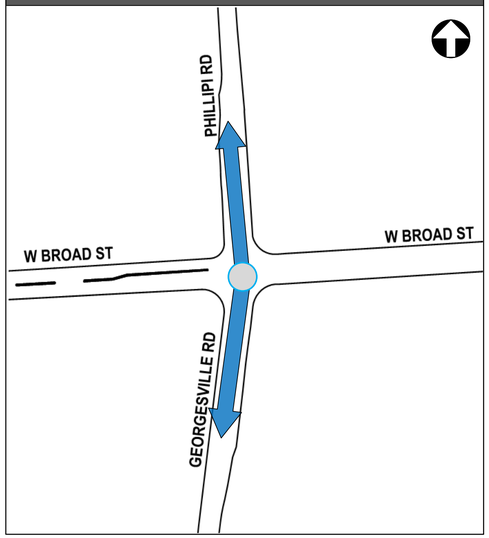
952
1000

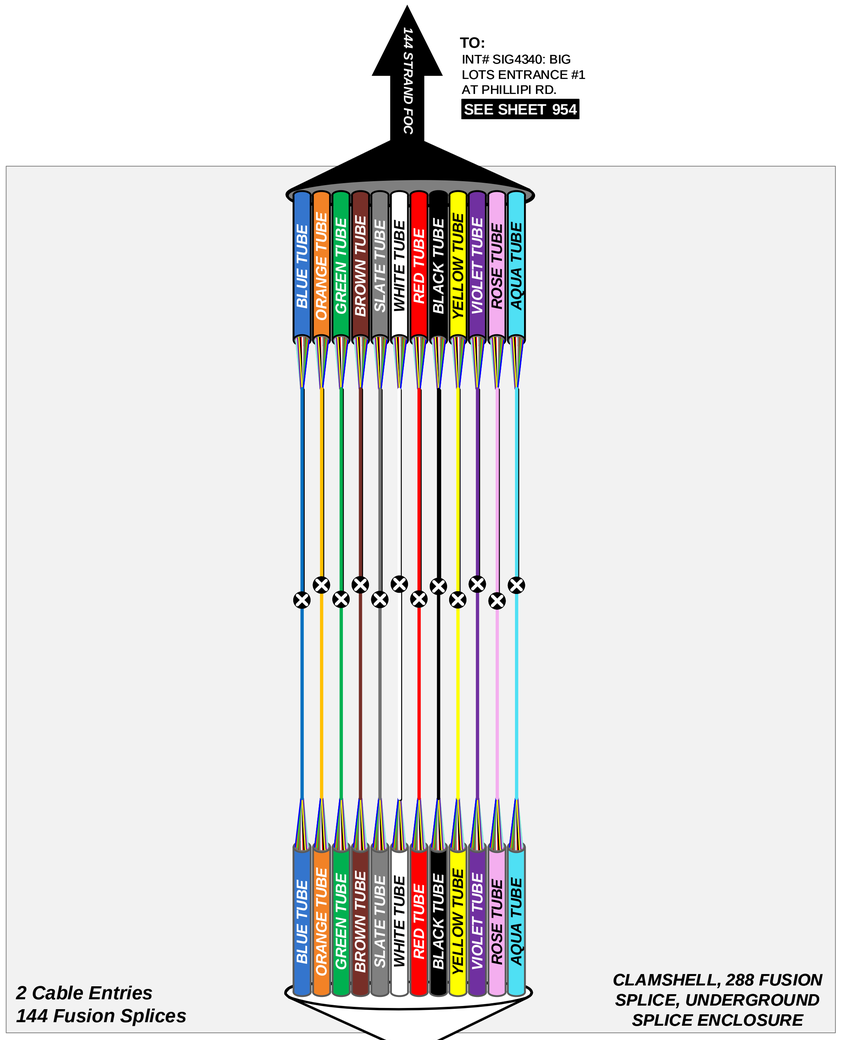
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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN





TO:
INT# SIG4340: BIG LOTS ENTRANCE #1 AT PHILLIPI RD.
SEE SHEET 954

TO:
INT# SIG4145: GEORGESVILLE RD. AT SHOPPERS LANE N.
SEE SHEET 950

SPLICE-06

REFER TO SHEET 126 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 684 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

SPLICE-06: BROAD ST. AT GEORGESVILLE RD./PHILLIPI RD.
COMMUNICATIONS DIAGRAM

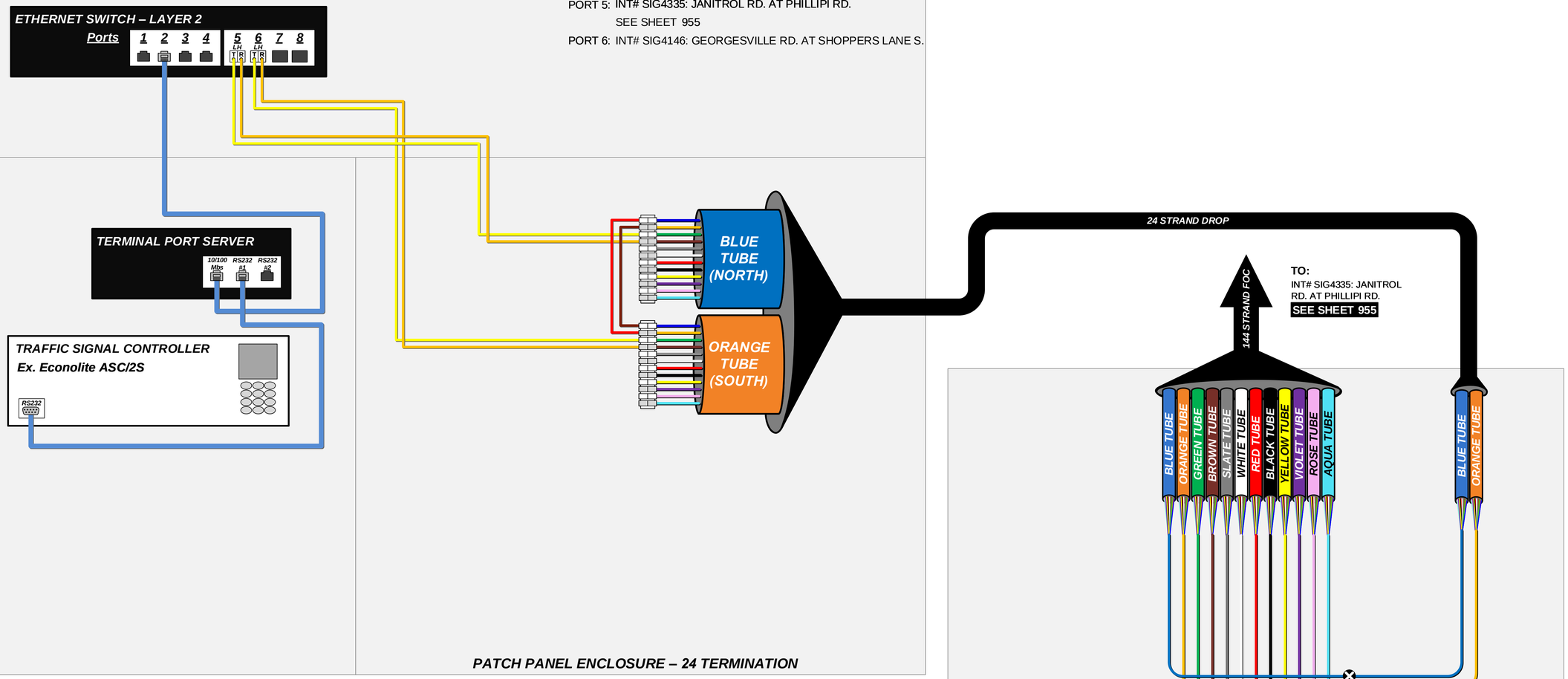
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4335: JANITROL RD. AT PHILLIPI RD.
SEE SHEET 955

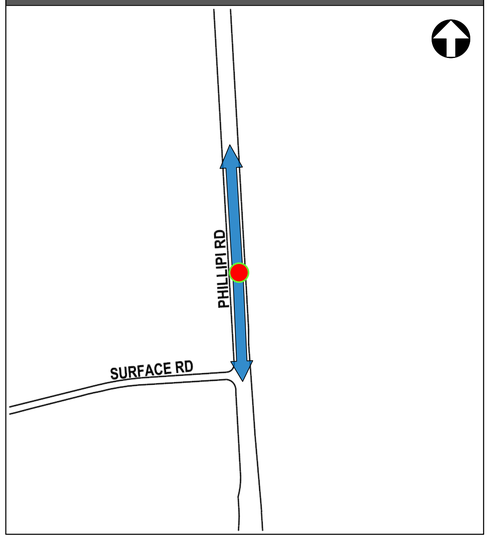
PORT 6: INT# SIG4146: GEORGESVILLE RD. AT SHOPPERS LANE S.



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4340

REFER TO SHEET 127 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 684 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# SIG4340: BIG LOTS ENTRANCE #1 AT PHILLIPI RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

954
1000

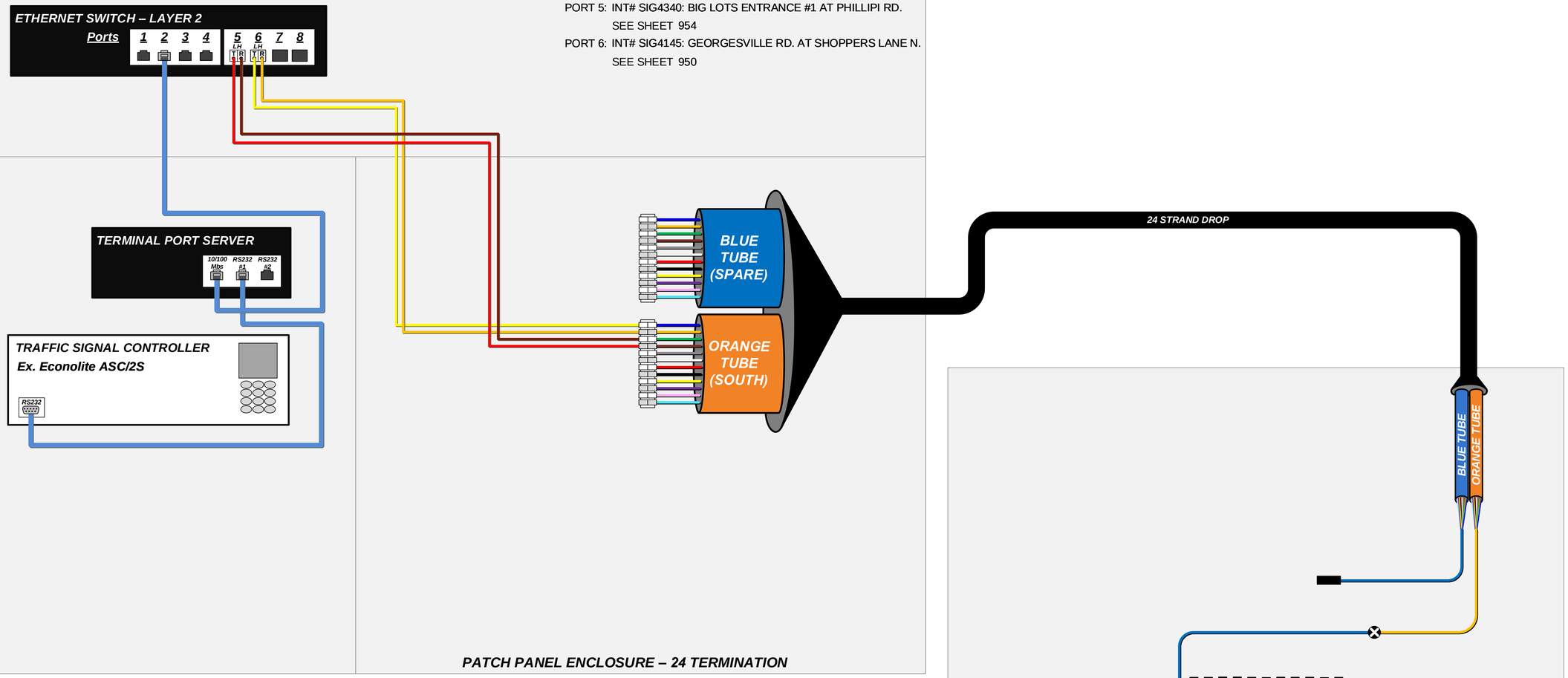
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4340: BIG LOTS ENTRANCE #1 AT PHILLIPI RD.
SEE SHEET 954

PORT 6: INT# SIG4145: GEORGESVILLE RD. AT SHOPPERS LANE N.
SEE SHEET 950



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# SIG4340: BIG LOTS ENTRANCE #1 AT PHILLIPI RD.
SEE SHEET 954

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4335
REFER TO SHEET 128 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 684 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

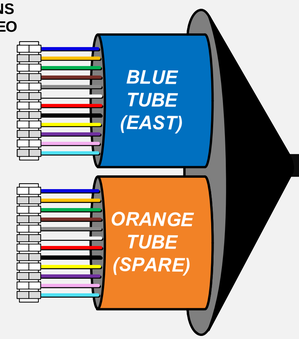
INT# SIG4335: JANITROL RD. AT PHILLIPI RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

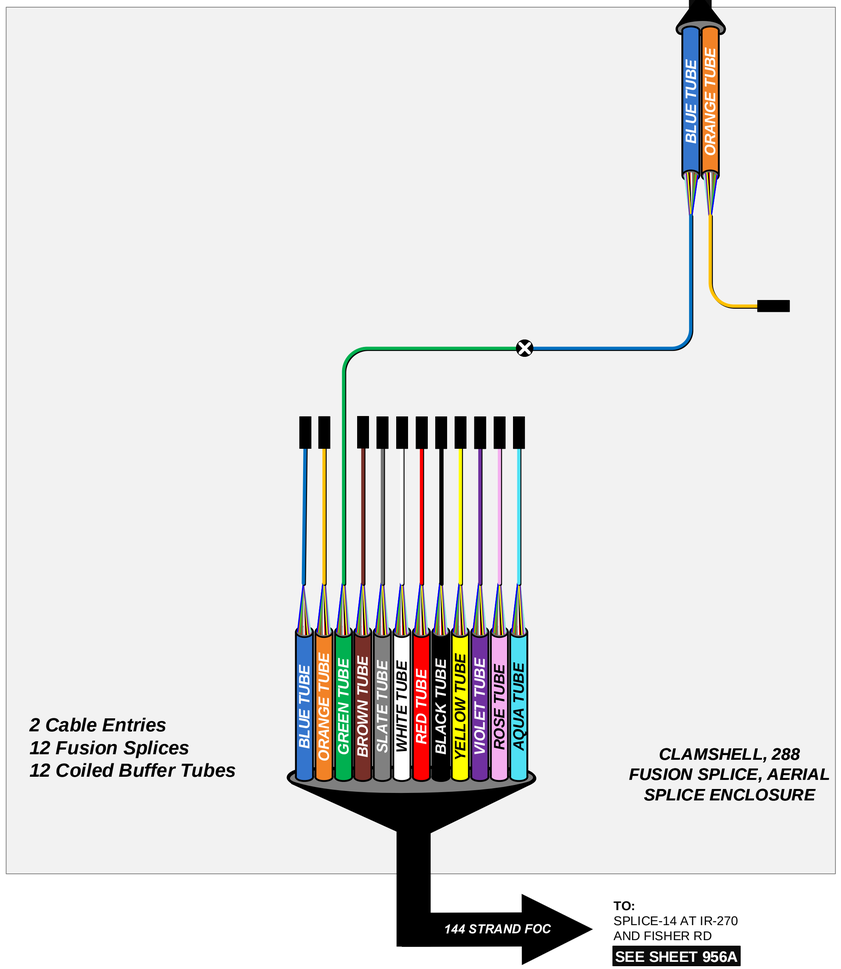
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PATCHING TO EXISTING COMMUNICATIONS EQUIPMENT WILL BE PERFORMED BY FCEO TECHNOLOGY STAFF



24 STRAND DROP



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

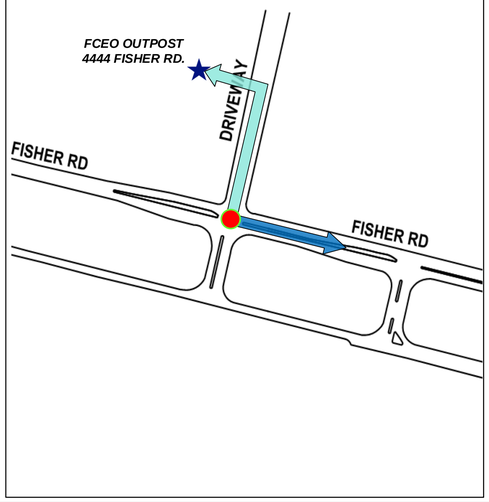
TO:
SPLICE-14 AT IR-270
AND FISHER RD
SEE SHEET 956A

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



FCEO FACILITY (WEST MAINTENANCE)

REFER TO SHEET 132 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 684 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

INT# FCEO FACILITY: FACILITY AT FISHER RD. (WEST MAINTENANCE)
COMMUNICATIONS DIAGRAM

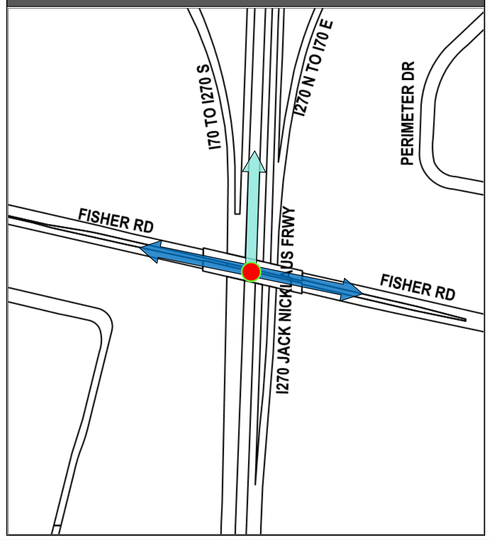
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

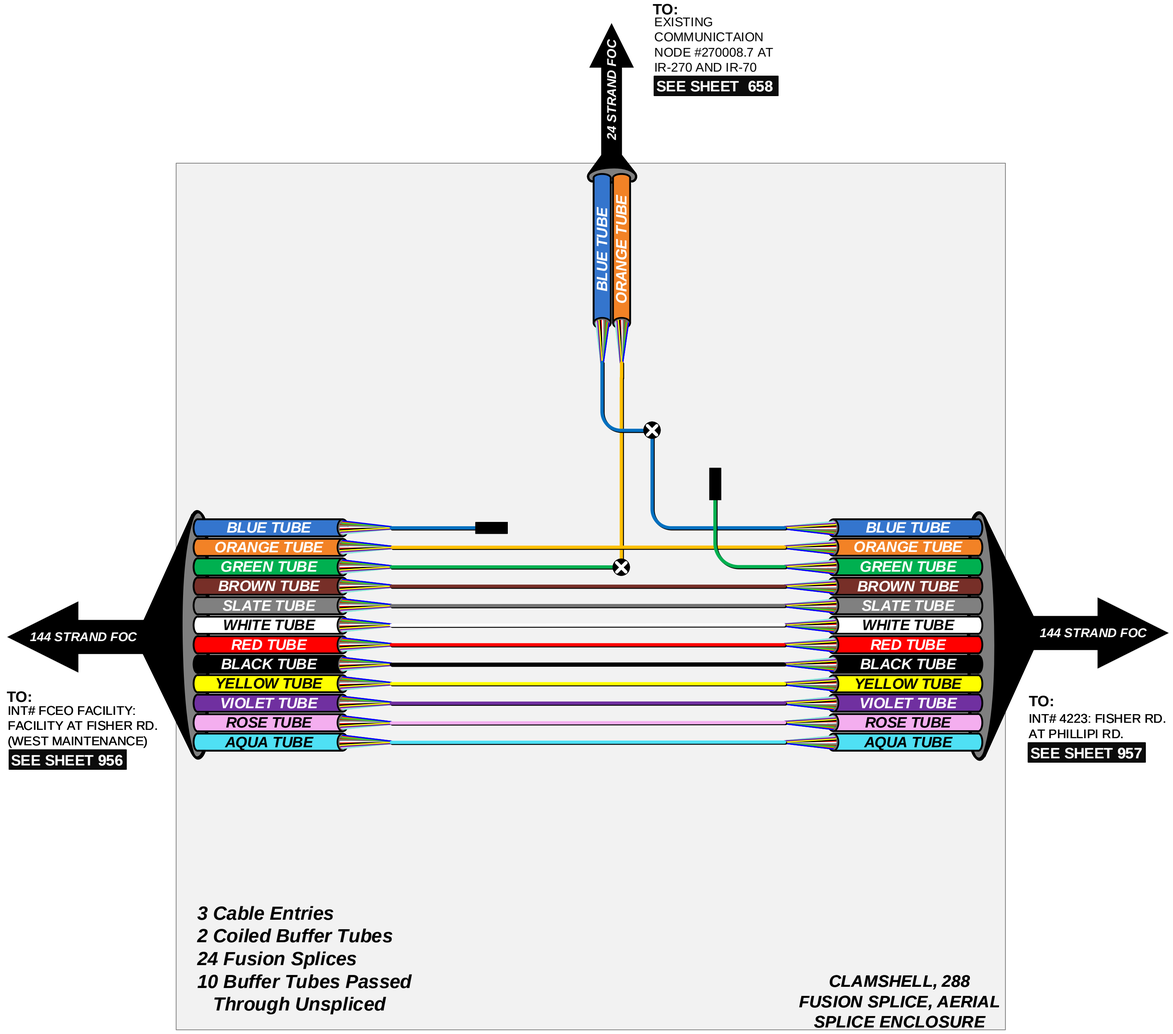
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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN





SPLICE-14

REFER TO SHEET 133 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 684 FOR COMM OVERVIEW DETAILS

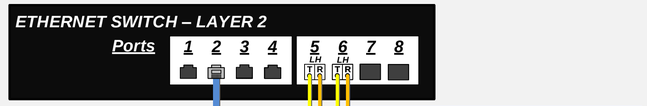
CIP: 540007 - 100006
PID NUMBER: 82573

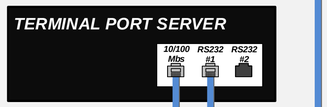
SPLICE 14: IR-270 AT FISHER RD.
COMMUNICATIONS DIAGRAM

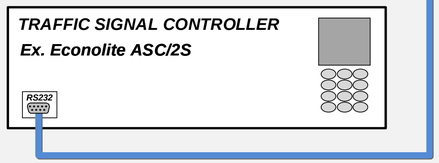
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

956A
1000

TRAFFIC SIGNAL CABINET ASSEMBLY



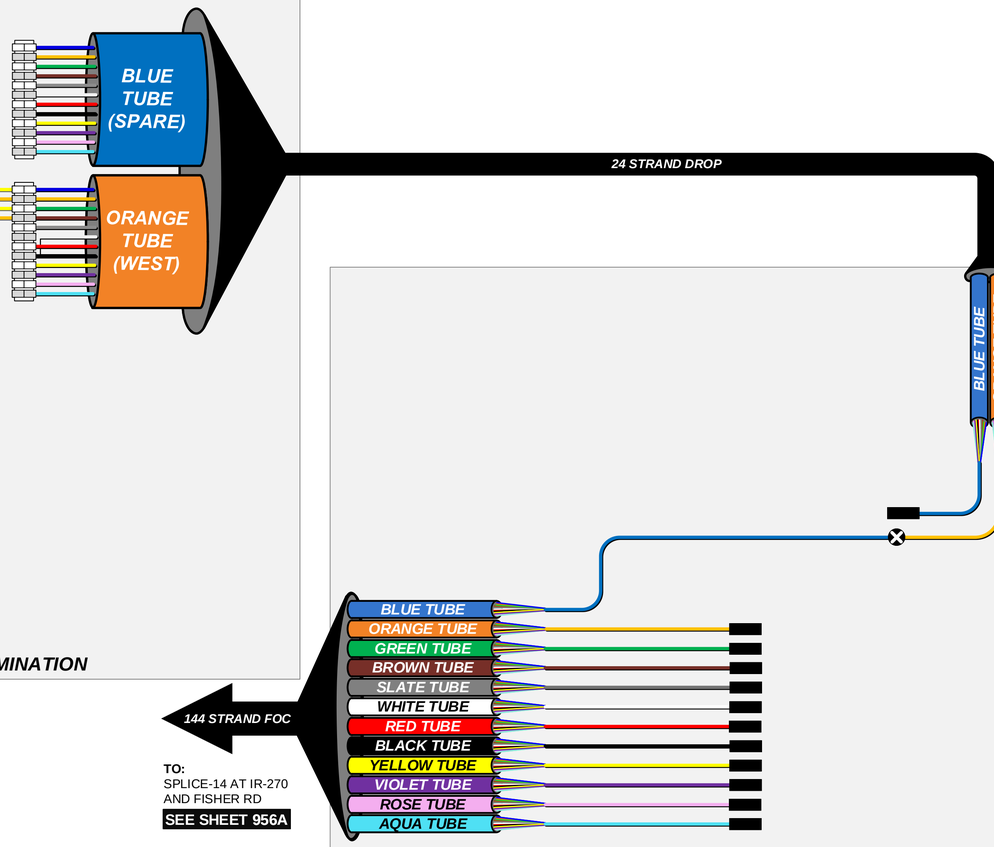




ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICTION NODE #270008.7: IR-270 AT IR-70
SEE SHEET 658

PORT 6: EXISTING COMMUNICTION NODE #270008.7: IR-270 AT IR-70
SEE SHEET 658



TO:
SPLICE-14 AT IR-270
AND FISHER RD
SEE SHEET 956A

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

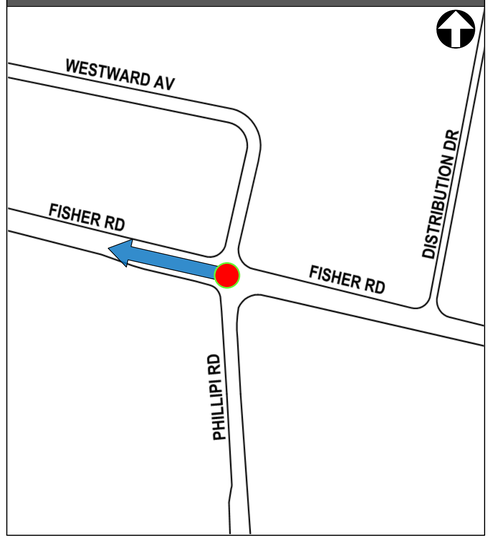
CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4223

REFER TO SHEET 135 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 684 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

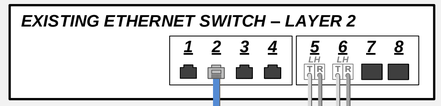
INT# 4223: FISHER RD. AT PHILLIPI RD.
COMMUNICATIONS DIAGRAM

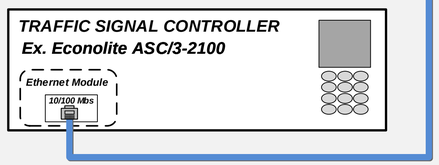
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

957
1000

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TRAFFIC SIGNAL CABINET ASSEMBLY

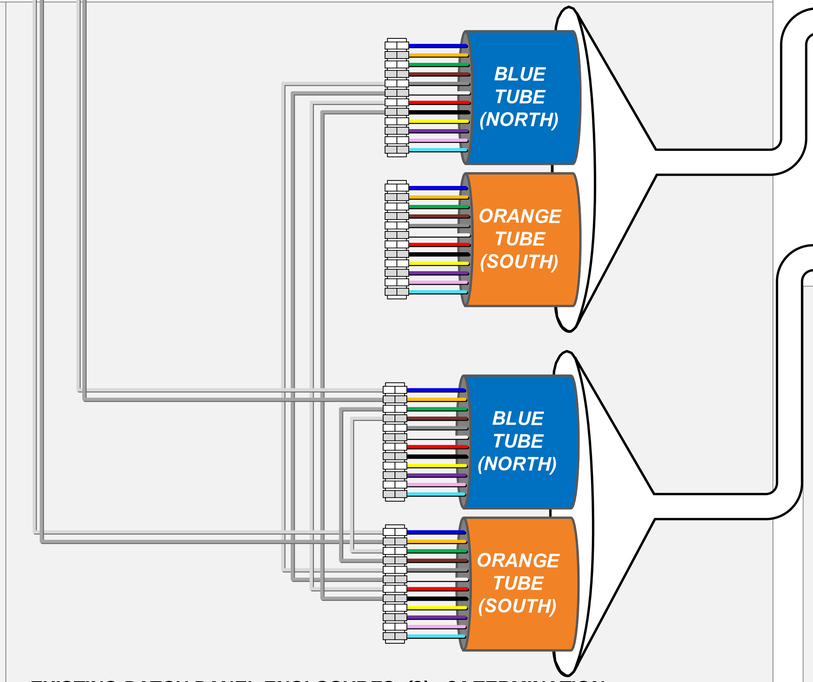




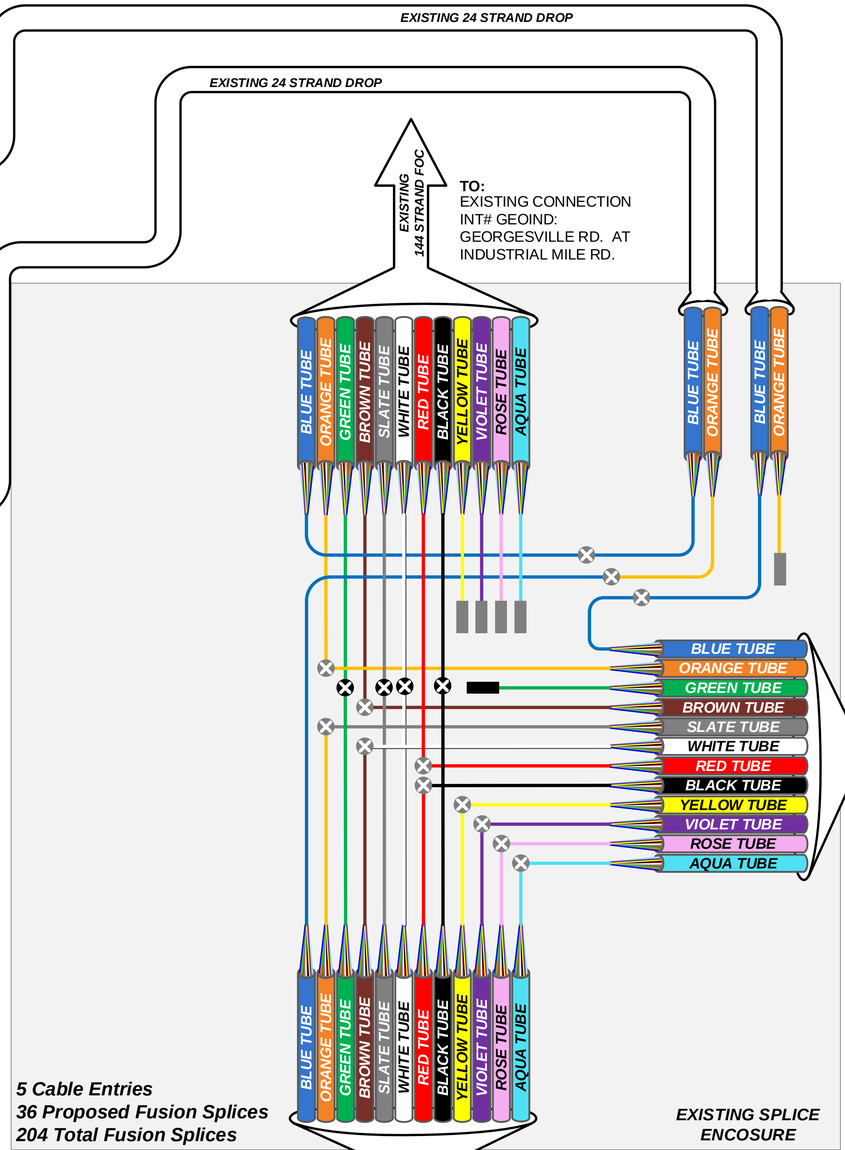
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# SIG4140: GEORGESVILLE RD. AT LINCOLN PARK CT.

PORT 6: EXISTING CONNECTION TO INT# 1036: GEORGESVILLE RD. AT SULLIVANT AVE. SOUTH.



EXISTING PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



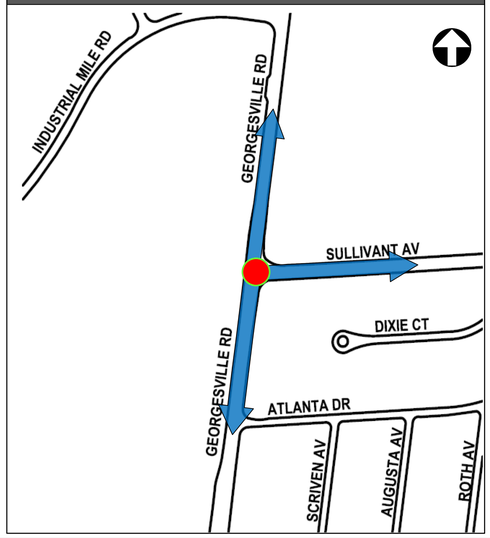
5 Cable Entries
36 Proposed Fusion Splices
204 Total Fusion Splices

EXISTING SPLICE ENCOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

REMOVE EXISTING FUSION SPLICES AND RESPLICE BUFFER TUBES AS SHOWN IN THE DIAGRAM ABOVE.

INTERSECTION 1034

CIP: 540007 - 100006
PID NUMBER: 82573

INT# 1034: GEORGESVILLE RD. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

958
1000

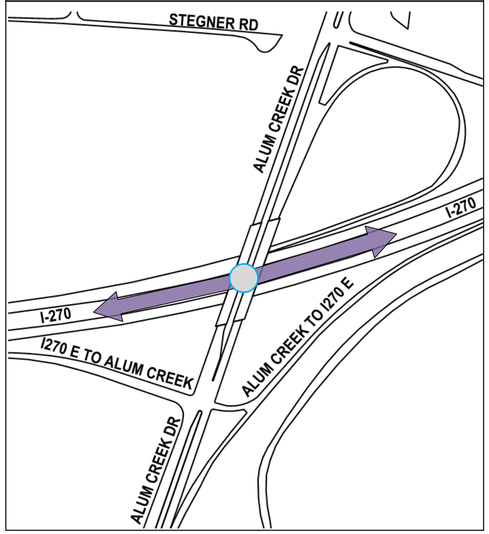
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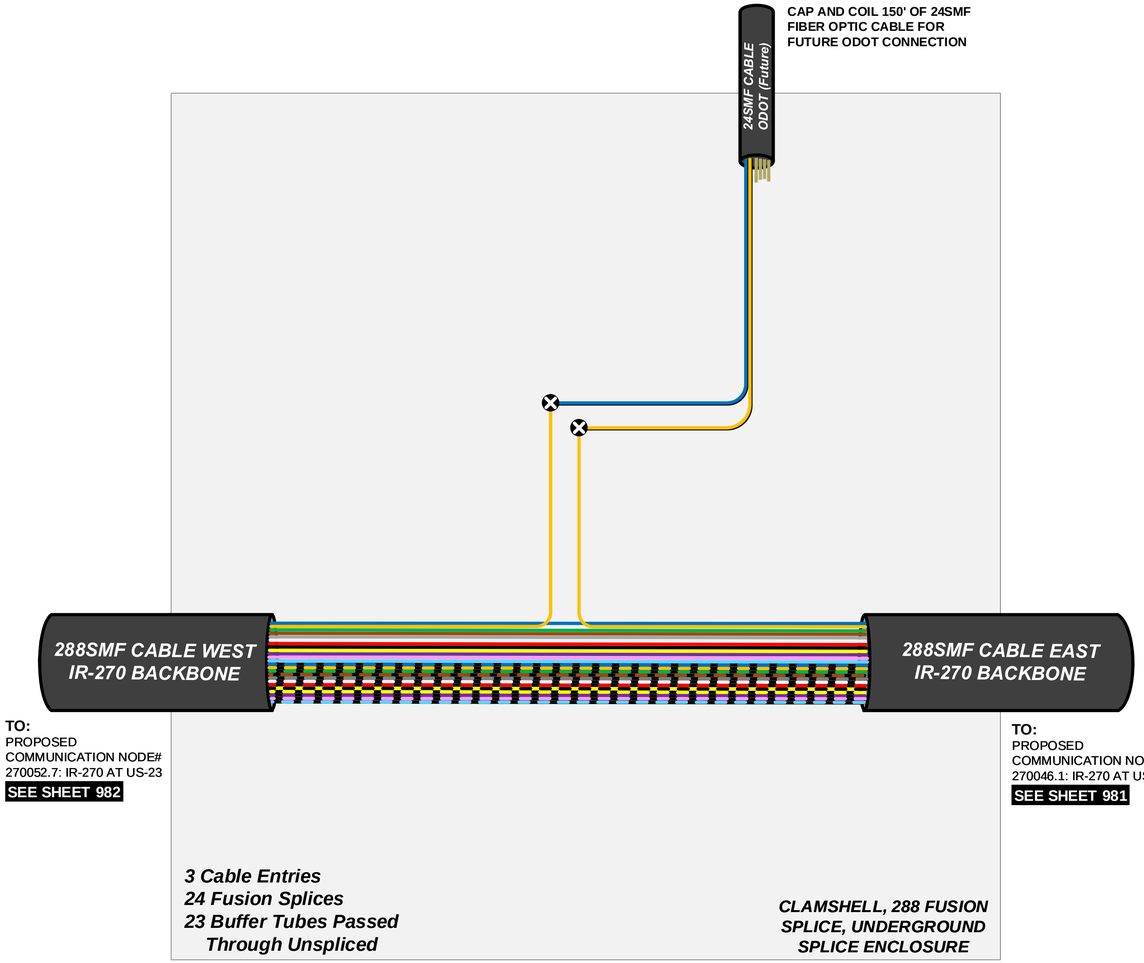
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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN





SPLICE-10

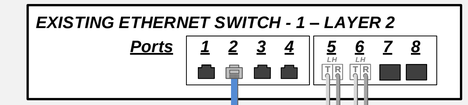
REFER TO SHEET 586 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

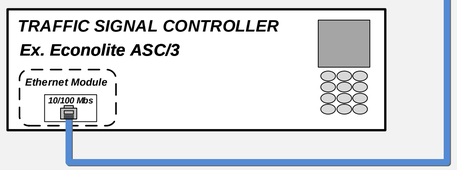
CIP: 540007 - 100006
PID NUMBER: 82573

SPLICE-10: ALUM CREEK DR. AT I-270
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY

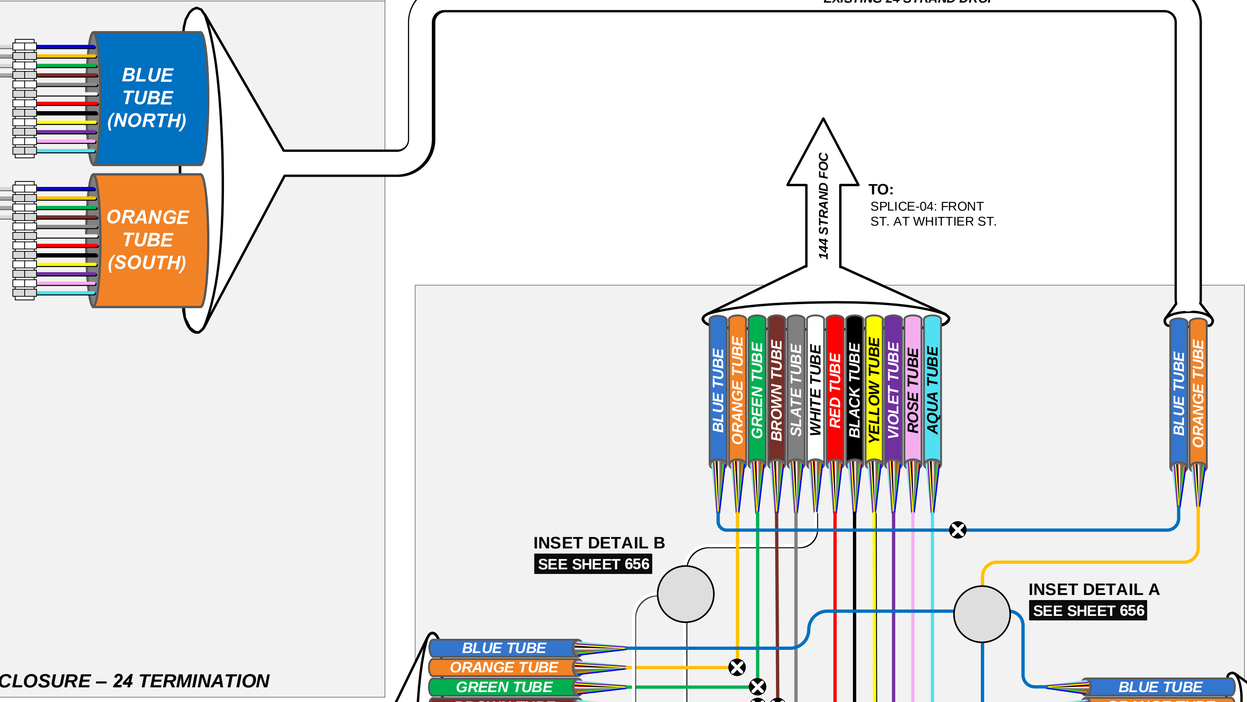




ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 0090: FRONT ST. AT LIVINGSTON AVE.

PORT 6: EXISTING CONNECTION TO INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS

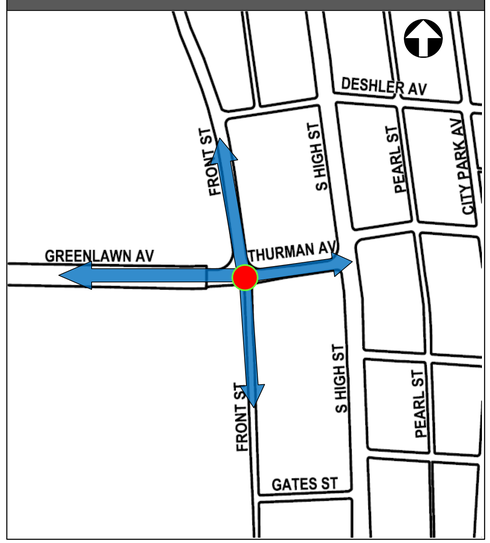


EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2054: FRONT ST. AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

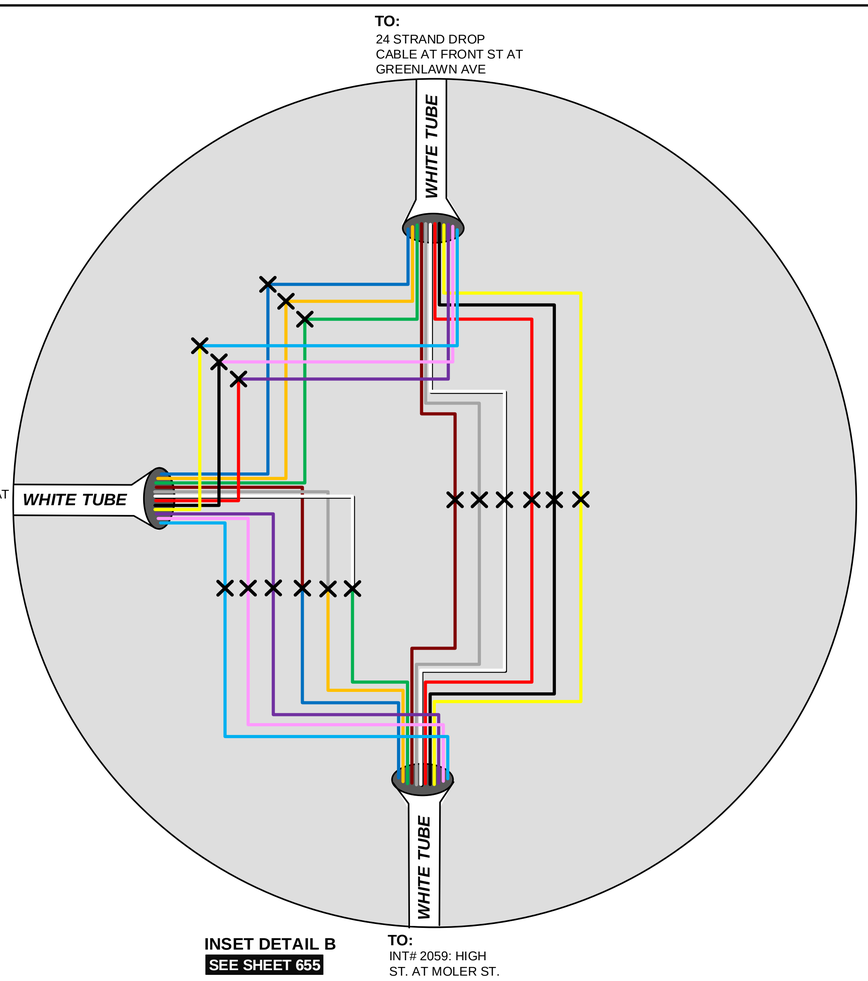
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

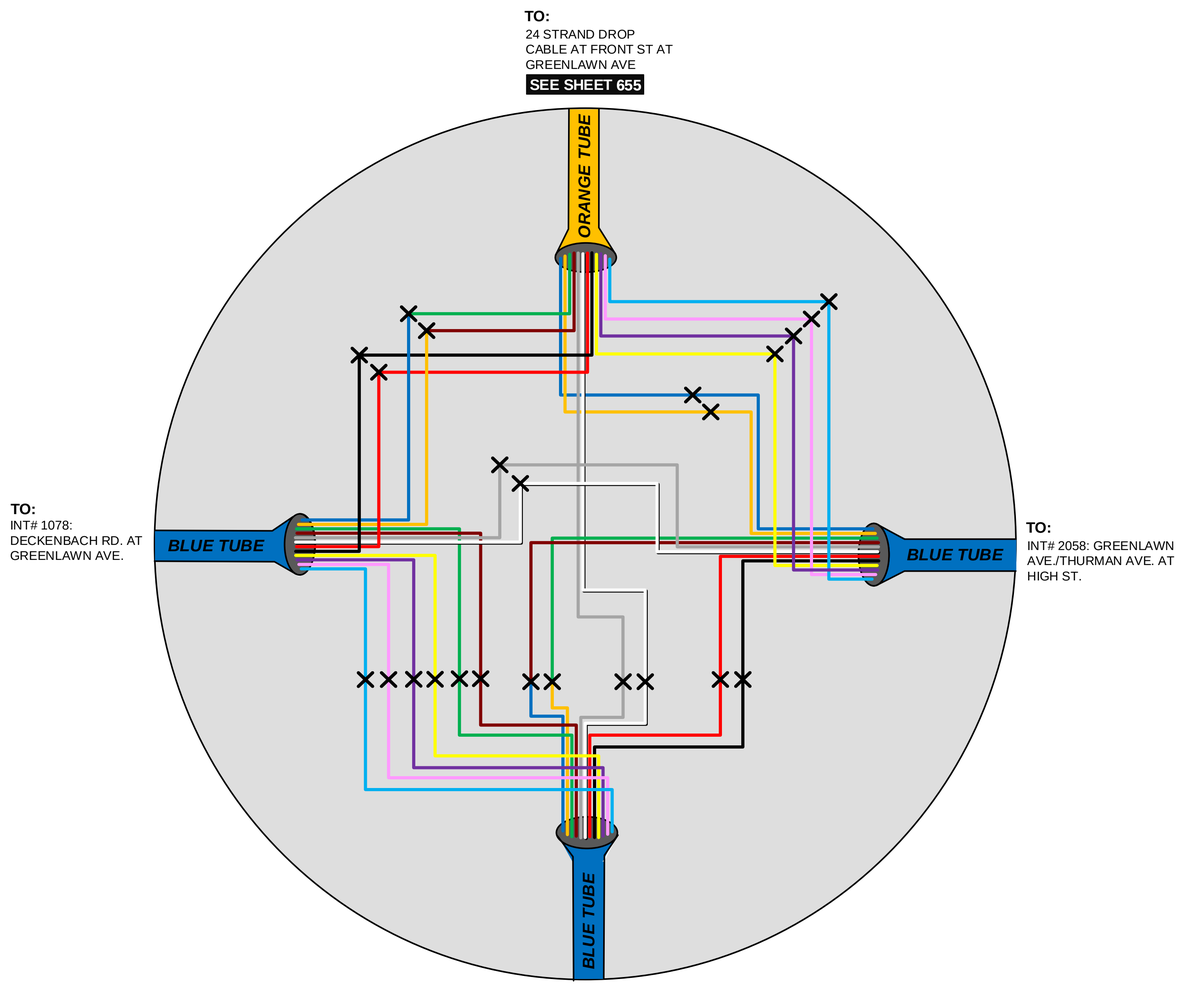
655
1000

INTERSECTION 2054

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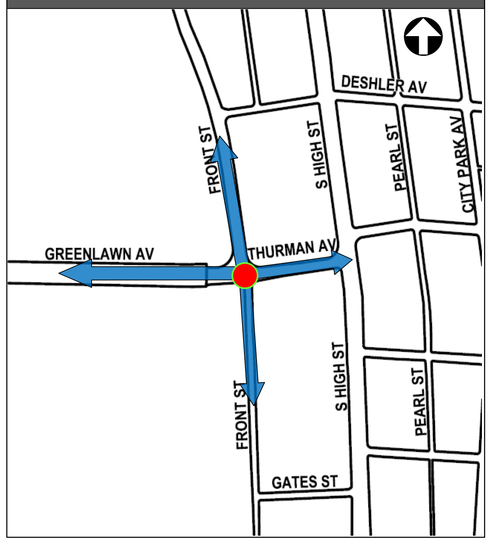




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION W/ CONTROL CABINET AND SPLICE ENCLOSURE
- SPLICE ENCLOSURE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 288 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100006
PID NUMBER: 82573

INT# 2054: FRONT ST. AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

656
1000

INTERSECTION 2054

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Copper Ports: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

SFP Ports: 13 LH (T R), 14 LH (T R), 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 LH (T R), 26 LH (T R), 27, 28

TO: CONTROL EQUIPMENT MONITOR

13 — 14 — 25 — 26

24 STRAND LC PATCH PANEL — 24SMF DROP CABLE[1] — 24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 13: INT# 3297: INTERNATIONAL GATEWAY WB AT STELZER RD.
SEE SHEET 899

PORT 14: INT# SIG4295: JOHNSTOWN RD. AT STELZER RD.
SEE SHEET 900

PORT 25: EXISTING COMMUNICATION NODE# 270035.4: IR-270 AT IR-670

PORT 26: EXISTING COMMUNICATION NODE# 670006.5: IR-670 AT LEONARD AVE.

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE B - SEE SHEET 961

MATCHLINE D - SEE SHEET 961

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE[2] (DoT TRUNK)

24SMF DROP CABLE[2] (I-670 BACKBONE)

144SMF DROP CABLE[1] DOT (IR-670 BACKBONE) WEST

144SMF DROP CABLE[1] DOT (IR-670 BACKBONE) EAST

25 — 26 — 13 — 14

CTSS 1RU PATCH PANEL

A — EAST — BLUE TUBE

A — WEST — ORANGE TUBE

CTSS 4RU PATCH PANEL

B — NORTH — BLUE TUBE
C — ORANGE TUBE
D — GREEN TUBE
E — BROWN TUBE
F — SLATE TUBE
G — WHITE TUBE

E — SOUTH — RED TUBE
F — BLACK TUBE
G — YELLOW TUBE
H — VIOLET TUBE
J — ROSE TUBE
K — AQUA TUBE

DoT 4RU PATCH PANEL

A — NORTH — BLUE TUBE
B — ORANGE TUBE
C — GREEN TUBE
D — BROWN TUBE
E — SLATE TUBE
F — WHITE TUBE

D — SOUTH — RED TUBE
E — BLACK TUBE
F — YELLOW TUBE
G — VIOLET TUBE
H — ROSE TUBE
J — AQUA TUBE

DoT 4RU PATCH PANEL

G — SPARE — BLUE TUBE
H — ORANGE TUBE
J — GREEN TUBE
K — BROWN TUBE
L — SLATE TUBE
M — WHITE TUBE

M — EAST — RED TUBE
N — BLACK TUBE
P — YELLOW TUBE
Q — VIOLET TUBE
R — ROSE TUBE
S — AQUA TUBE

DoT 4RU PATCH PANEL

N — SPARE — BLUE TUBE
P — ORANGE TUBE
Q — GREEN TUBE
R — BROWN TUBE
S — SLATE TUBE
T — WHITE TUBE

T — WEST — 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 SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 670009.0

REFER TO SHEET 636 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

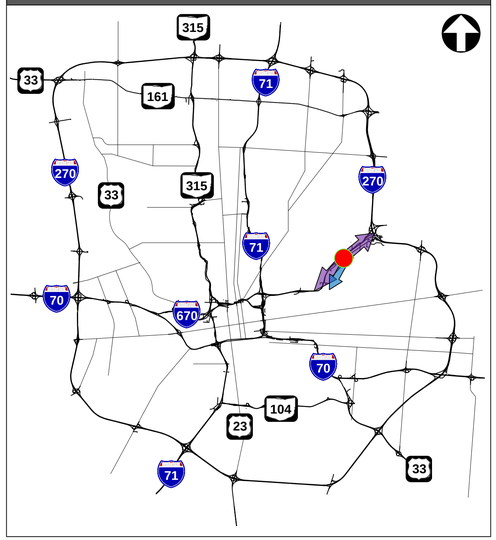
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 670009.0: IR-670 AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

960
1000

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CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

SE U-2 IN EXISTING 32" PULL BOX

6 Cable Entries
192 Fusion Splices
12 Coiled Buffer Tubes
16 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF CABLE (ODOT)

EXISTING 288SMF CABLE WEST I-670 BACKBONE

EXISTING 288SMF CABLE EAST I-670 BACKBONE

TO: EXISTING COMMUNICATION NODE# 670006.5: IR-670 AT LEONARD AVE.

TO: EXISTING COMMUNICATION NODE# 270035.4: IR-270 AT IR-670

24SMF CABLE (I-670 BACKBONE)

144SMF CABLE DOT (IR-670 BACKBONE) WEST

144SMF CABLE DOT (IR-670 BACKBONE) EAST

MATCHLINE A - SEE THIS SHEET

MATCHLINE C - SEE THIS SHEET

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

144SMF CABLE NORTH STELZER RD TRUNK

TO: FUTURE FRANKLIN COUNTY CONNECTION AT OLE COUNTRY LN. AND STELZER RD.

24SMF CABLE ODOT (Future)

MATCHLINE A - SEE THIS SHEET

SE U-1 IN PROPOSED 48" PULL BOX

7 Cable Entries
312 Fusion Splices
3 Coiled Buffer Tubes

1-6 7-12

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF CABLE SOUTH STELZER RD TRUNK

TO: INT# SIG4295: JOHNSTOWN RD. AT STELZER RD.

SEE SHEET 900

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE (DoT TRUNK)

24SMF DROP CABLE (I-670 BACKBONE)

MATCHLINE B - SEE SHEET 960

MATCHLINE C - SEE THIS SHEET

4 Cable Entries
288 Fusion Splices

144SMF CABLE DoT (IR-670 BACKBONE) WEST

144SMF CABLE DoT (IR-670 BACKBONE) EAST

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF DROP CABLE DoT (IR-670 BACKBONE) WEST

144SMF DROP CABLE DoT (IR-670 BACKBONE) EAST

MATCHLINE D - SEE SHEET 960

LEGEND

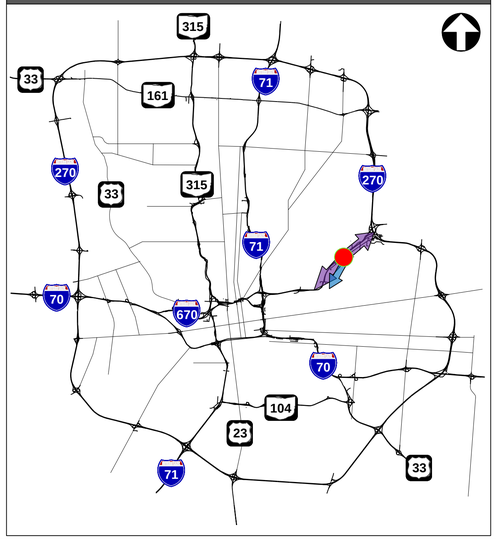
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 670009.0

REFER TO SHEET 636 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 681 FOR COMM OVERVIEW DETAILS

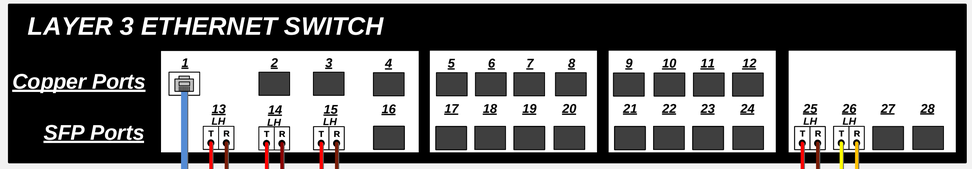
CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 670009.0: IR-670 AT STELZER RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

961
1000

COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO: CONTROL EQUIPMENT MONITOR

13 14 15 25 26

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

13 14 15 25 26

ETHERNET SWITCH PORT DESTINATION

PORT 13: INT# 2038: E MAIN ST. AT KELTON AVE.
SEE SHEET 916

PORT 14: INT# 2036: E MAIN ST. AT WILSON AVE.
SEE SHEET 914

PORT 15: INT# 2114: MILLER AVE. AT MOOBERRY ST.
SEE SHEET 921

PORT 25: EXISTING COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.

PORT 26: EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670

MATCHLINE B - SEE SHEET 963

144SMF DROP CABLE[2] (CTSS TRUNK)
144SMF DROP CABLE[2] (DoT TRUNK)
24SMF DROP CABLE[2] (IR-270 BACKBONE)
144SMF DROP CABLE[2] WEST I-70 BACKBONE (DoT)
144SMF DROP CABLE[2] EAST I-70 BACKBONE (DoT)

CTSS 4RU PATCH PANEL

NORTH
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

CTSS 1RU PATCH PANEL

EAST
BLUE TUBE

WEST
ORANGE TUBE

DoT 4RU PATCH PANEL

NORTH
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 4RU 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

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

DoT 4RU PATCH PANEL

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

LEGEND

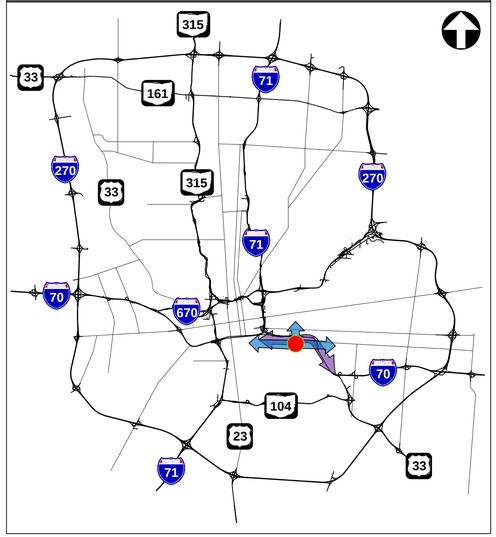
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



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 SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 070102.3

REFER TO SHEET 631 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 070102.3: IR-70 AT KELTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

962
1000

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CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

PROPOSED 48" PULL BOX

EXISTING 288SMF CABLE WEST I-70 BACKBONE

EXISTING 288SMF CABLE EAST I-70 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670

TO:
EXISTING COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.

24SMF CABLE (I-70 BACKBONE)

*144SMF DROP CABLE WEST I-70 BACKBONE (DoT)**

*144SMF DROP CABLE EAST I-70 BACKBONE (DoT)**

6 Cable Entries
192 Fusion Splices
16 Buffer Tubes Passed Through Unspliced
12 Coiled Buffer Tubes

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF CABLE ODOT (future)

*DoT 288 FIBER SPLICING WORK TO BE PERFORMED BY ONGOING DoT PROJECT

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

MATCHLINE A - SEE THIS SHEET

TO:
INT# 2037: E MAIN ST. AT MILLER AVE.
SEE SHEET 915

144SMF CABLE NORTH MILLER AVE TRUNK

24SMF CABLE ODOT (Future)

MATCHLINE A - SEE THIS SHEET

PROPOSED 48" PULL BOX

1-6 7-12

24SMF CABLE (I-70 BACKBONE)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

144SMF CABLE WEST MOOBERRY ST TRUNK

TO:
INT# 2114: MILLER AVE. AT MOOBERRY ST.
SEE SHEET 921

7 Cable Entries
312 Fusion Splices
3 Coiled Buffer Tubes

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE (DoT TRUNK)

24SMF DROP CABLE (I-70 BACKBONE)

MATCHLINE B - SEE SHEET 962

LEGEND

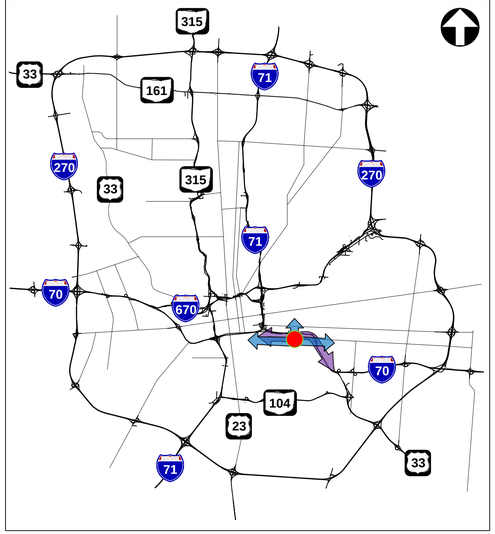
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 070102.3

REFER TO SHEET 631 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 680 FOR COMM OVERVIEW DETAILS

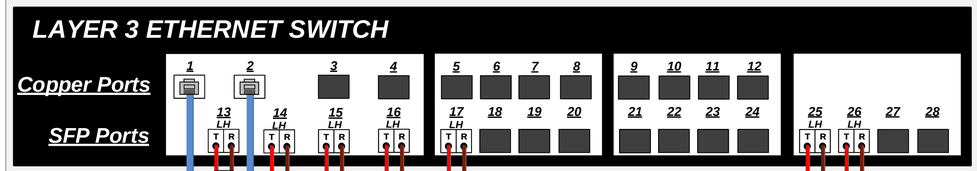
CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 070102.3: IR-70 AT KELTON AVE.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

J:\Jobs\60135\TECHPROD\Communications\Node Sheets\Phase D comm nodes.vsd - 070102.3-2 layout – last saved by: Sai Geetha Koganti 3/31/2020 5:16:59 PM – printed: 3/31/2020 5:16:59 PM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO: CONTROL EQUIPMENT MONITOR

2 13 14 15 16 17 25 26

24 STRAND LC PATCH PANEL

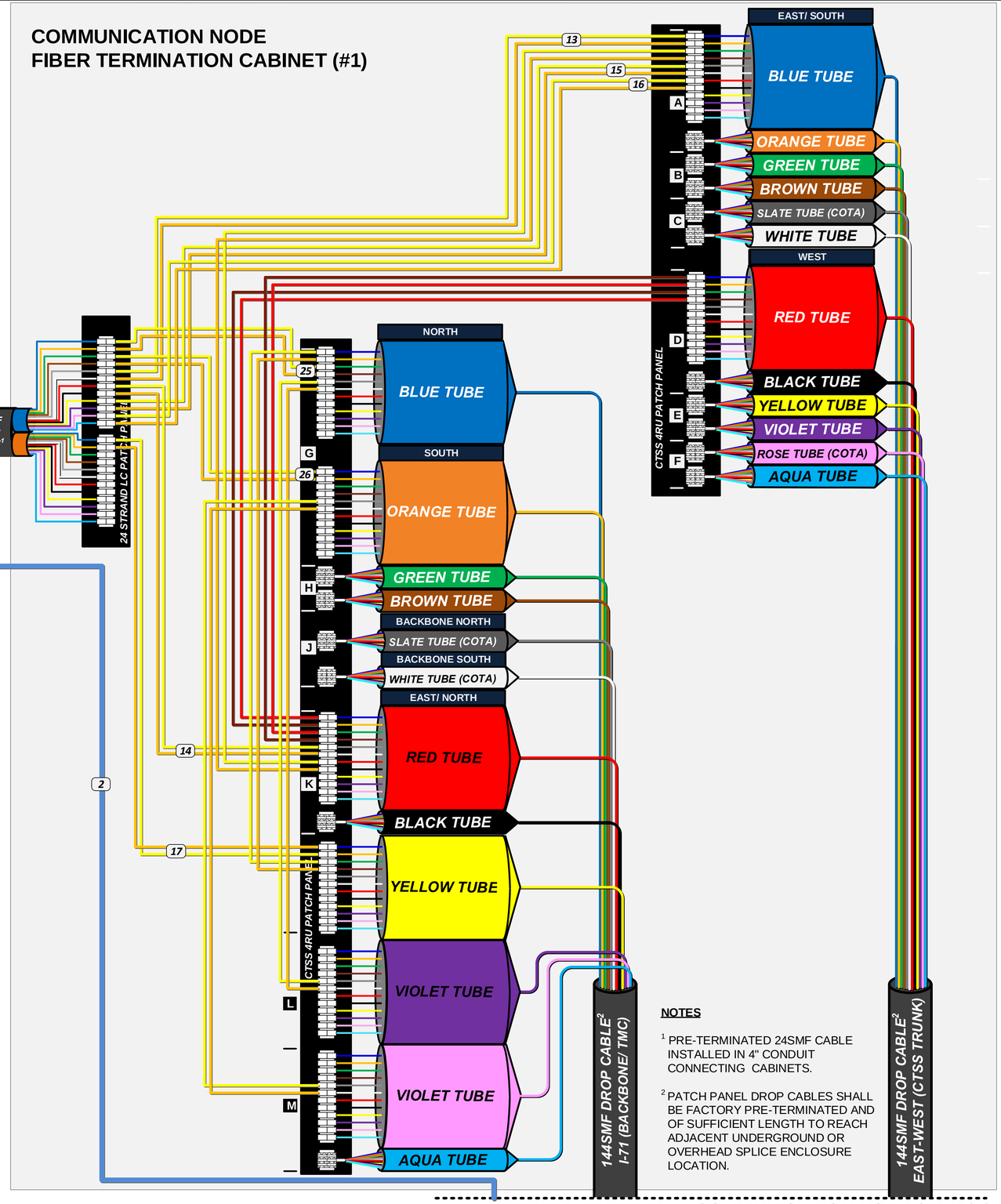
24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH SFP PORT DESTINATION

PORT 2: INT# 3031: ELEVENTH AVE. AT I-71 SB RAMPS
SEE SHEET 854
PORT 13: INT# 3030: ELEVENTH AVE. AT I-71 NB RAMPS
SEE SHEET 855
PORT 14: INT# 3062: HAMILTON AVE. AT SEVENTEENTH AVE.
SEE SHEET 857
PORT 15: INT# 4016: FOURTH AVE. AT N HIGH ST.
SEE SHEET 695
PORT 16: INT# 3183: SECOND AVE. AT SUMMIT ST.
SEE SHEET 694
PORT 17: TMC COMMUNICATIONS: E TWENTY-FIFTH AVE
SEE SHEET 993
PORT 25: EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
SEE SHEET 996
PORT 26: EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670.
SEE SHEET 995

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 SPLICE ENCLOSURE LOCATION.

MATCHLINE B - SEE SHEET 966

LEGEND

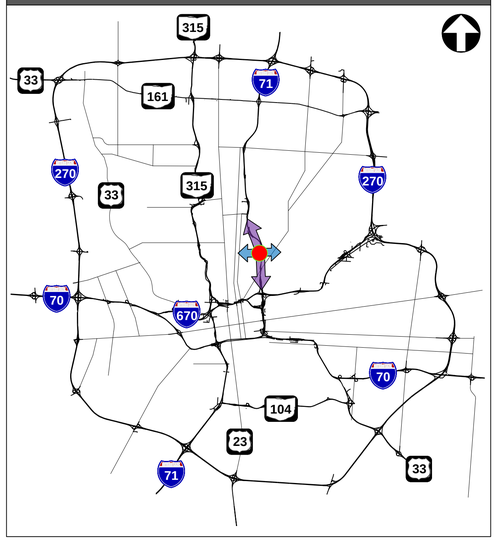
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 071110.9
REFER TO SHEET 644 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
COMMUNICATIONS DIAGRAM

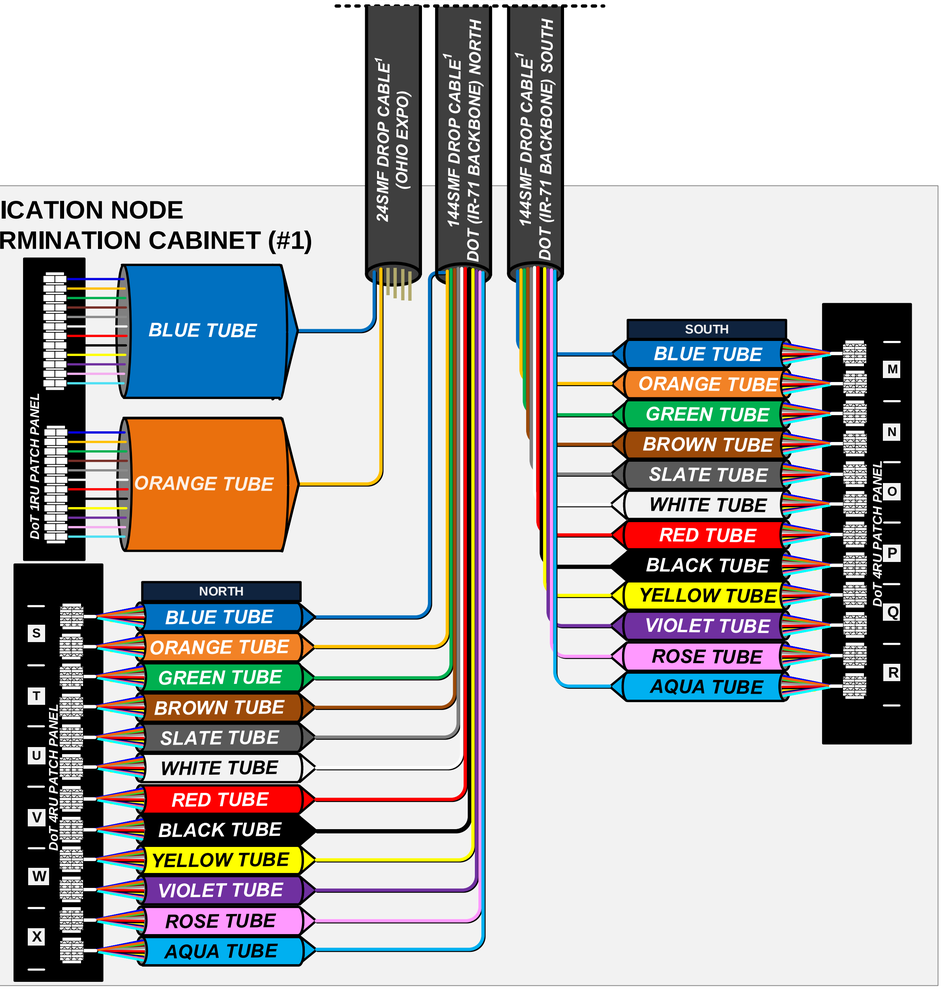
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

964
1000

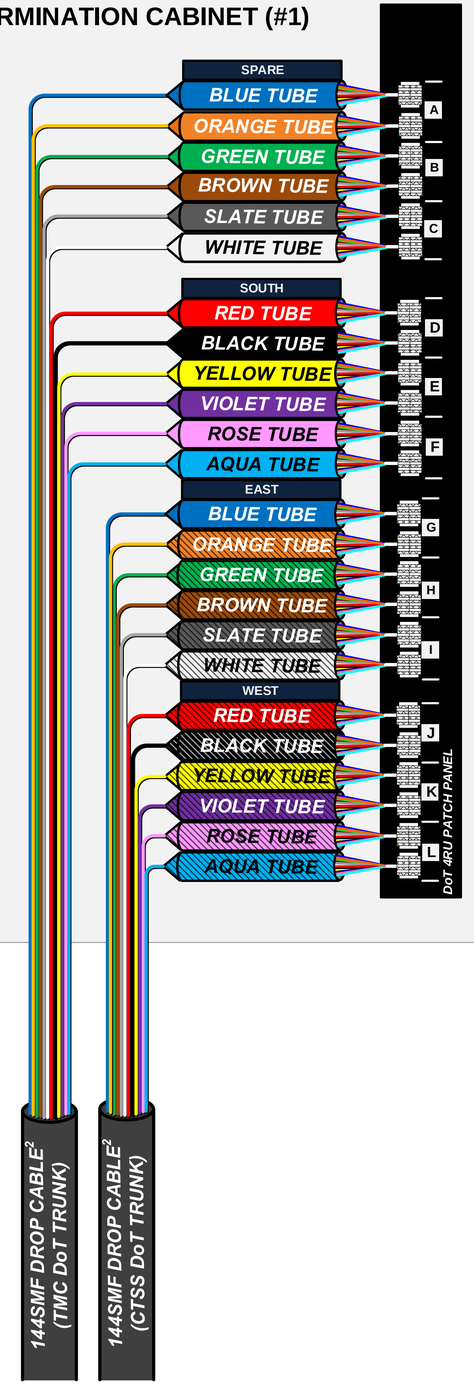
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MATCHLINE D - SEE SHEET 966

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

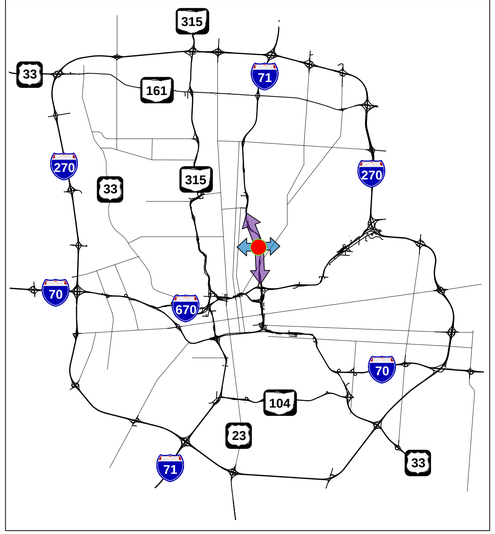
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **964**

[1] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 071110.9

REFER TO SHEET 644 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

965
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150' OF 24SMF FIBER OPTIC CABLE CAP AND COIL FOR FUTURE ODOT CONNECTION

24SMF CABLE (ODOT)

EXISTING 288SMF CABLE NORTH IR-71 BACKBONE

TO: EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY. SEE SHEET 997

PROPOSED 48" PULL BOX*

7 Cable Entries
360 Proposed Fusion Splices
384 Total Fusion Splices
6 Coiled Buffer Tubes
9 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

REFER TO PLAN SHEET 455 FOR CONSTRUCTION PLAN DETAILS

EXISTING 144SMF CABLE NORTH IR-71 (BACKBONE)

144SMF CABLE DoT (IR-71 BACKBONE) NORTH

144SMF CABLE DoT (IR-71 BACKBONE) SOUTH

EXSITNG 288SMF CABLE SOUTH IR-71 BACKBONE

24SMF CABLE (ODOT)

MATCHLINE A - SEE THIS SHEET

MATCHLINE C - SEE THIS SHEET

TO: EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670. SEE SHEET 995

150' OF 24SMF FIBER OPTIC CABLE CAP AND COIL FOR FUTURE ODOT CONNECTION

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

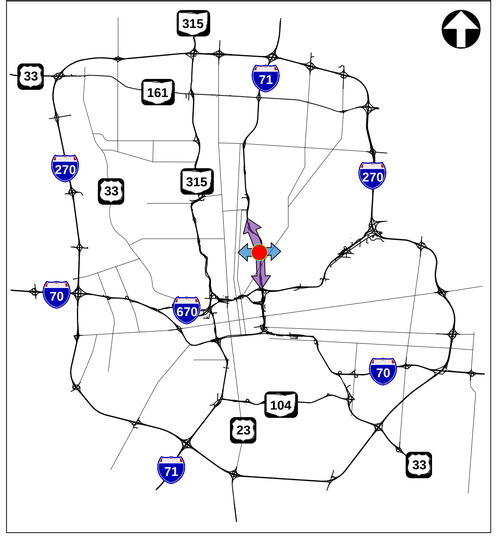
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE A - SEE THIS SHEET

MATCHLINE B - SEE SHEET 964

EXISTING 144SMF CABLE NORTH IR-71 (BACKBONE)

144SMF DROP CABLE I-71 (BACKBONE/ TMC)

144SMF DROP CABLE EAST-WEST (CTSS TRUNK)

144SMF DROP CABLE (TMC DoT TRUNK)

144SMF DROP CABLE (CTSS DoT TRUNK)

SE-U1 IN PROPOSED 48" PULL BOX

REFER TO PLAN SHEET 456 FOR CONSTRUCTION PLAN DETAILS

8 Cable Entries
480 Fusion Splices
18 Coiled Buffer Tubes

TO: EXISTING SPLICE ENCLOSURE AT ELEVENTH AVE. AND JEFFERSON AVE.

144SMF CABLE EAST/ NORTH (TMC/ BACKBONE)

TO: INT# 3030: ELEVENTH AVE. AT I-71 NB RAMPS SEE SHEET 855

144SMF CABLE EAST/ SOUTH ELEVENTH AVE TRUNK

TO: INT# 3031: ELEVENTH AVE. AT I-71 SB RAMPS SEE SHEET 854

TO: FIELDS TRANSIT DATA CENTER

144SMF CABLE WEST ELEVENTH AVE TRUNK

1-6, 7-12

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO: DoT CABLE AT OHIO EXPO CENTER

MATCHLINE C - SEE THIS SHEET

24SMF CABLE WEST (OHIO EXPO)

144SMF CABLE DoT (IR-71 BACKBONE) NORTH

144SMF CABLE DoT (IR-71 BACKBONE) SOUTH

6 Cable Entries
312 Fusion Splices

24SMF DROP CABLE (OHIO EXPO)

144SMF DROP CABLE DoT (IR-71 BACKBONE) NORTH

144SMF DROP CABLE DoT (IR-71 BACKBONE) SOUTH

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

MATCHLINE D - SEE SHEET 965

NOTES

*FOR EXISTING CONFIGURATION OF SPLICE ENCLOSURE IN 32" PULL BOX AT STA.1046+94, 97' LT ON I-71 SB OFF RAMP AND ELEVENTH AVE, REFER TO SHEET **967**

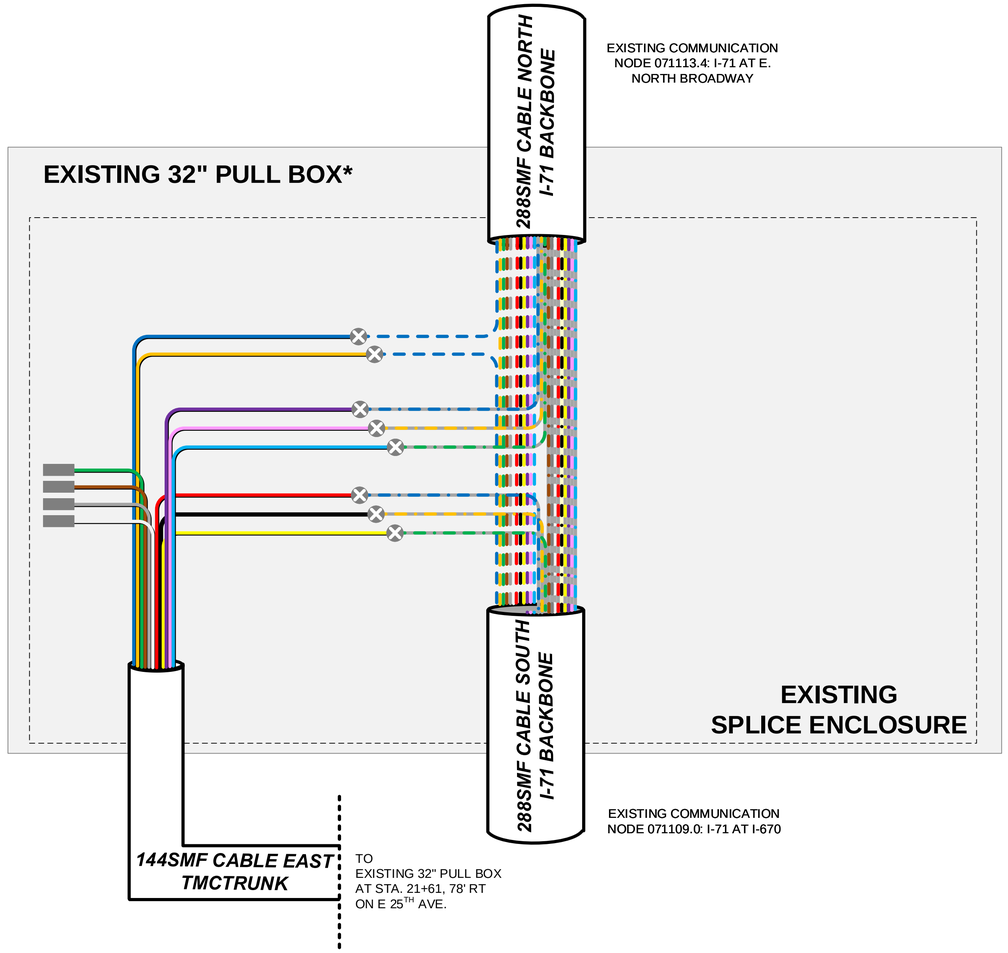
COMMUNICATION NODE 071110.9

REFER TO SHEET 644 AND 456 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

NOTES

*FOR PROPOSED CONFIGURATION OF SPLICE ENCLOSURE AT STA.1046+94, 97' LT ON I-71 SB OFF RAMP AND ELEVENTH AVE , REFER TO SHEET **966**

COMMUNICATION NODE 071110.9

REFER TO SHEET 644 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 675 FOR COMM OVERVIEW DETAILS

PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
FIBER OPTIC SPLICING DIAGRAM

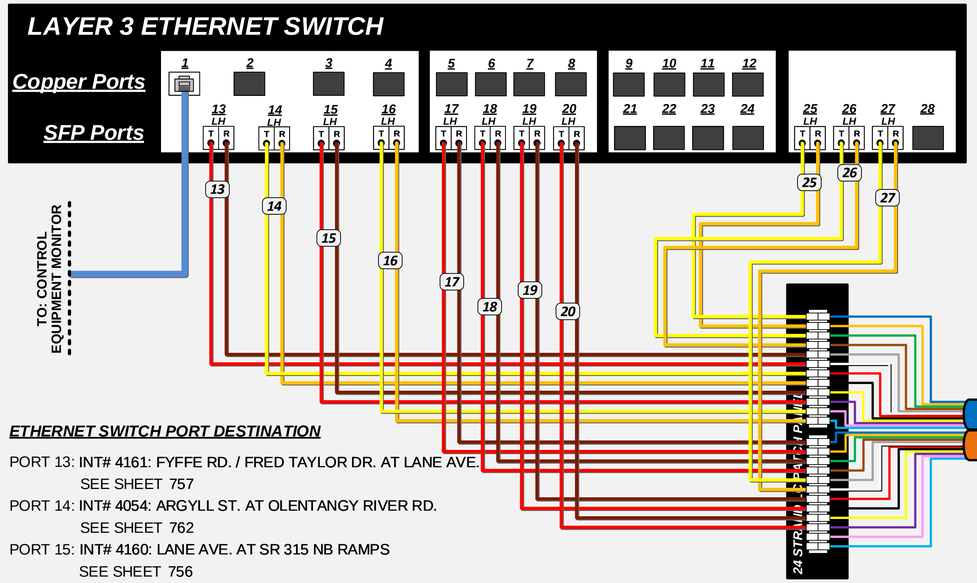
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

CIP: 540007 - 100006
PID NUMBER: 82573

967
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COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 13: INT# 4161: FYFFE RD. / FRED TAYLOR DR. AT LANE AVE.
SEE SHEET 757

PORT 14: INT# 4054: ARGYLL ST. AT OLENTANGY RIVER RD.
SEE SHEET 762

PORT 15: INT# 4160: LANE AVE. AT SR 315 NB RAMPS
SEE SHEET 756

PORT 16: INT# 4159: LANE AVE. AT SR 315 SB RAMPS
SEE SHEET 755

PORT 17: INT# 4088: FIFTH AVE. AT KENNY RD.
SEE SHEET 748

PORT 18: INT# 4087: EDGEHILL RD. AT FIFTH AVE.
SEE SHEET 810

PORT 19: INT# 4194: LENNOX TOWN CENTER AT OLENTANGY RIVER RD.
SEE SHEET 745

PORT 20: INT# 4196: KINNEAR RD. AT SR 315 SB RAMPS
SEE SHEET 753

PORT 25: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD. (LAYER 3)
SEE SHEET 972

PORT 26: EXISTING COMMUNICATION NODE# 315001.3: SR-315 AT US-33/ DUBLIN RD.(LAYER 3)

PORT 27: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD. (LAYER 2 TRUNK)
SEE SHEET 972

LEGEND

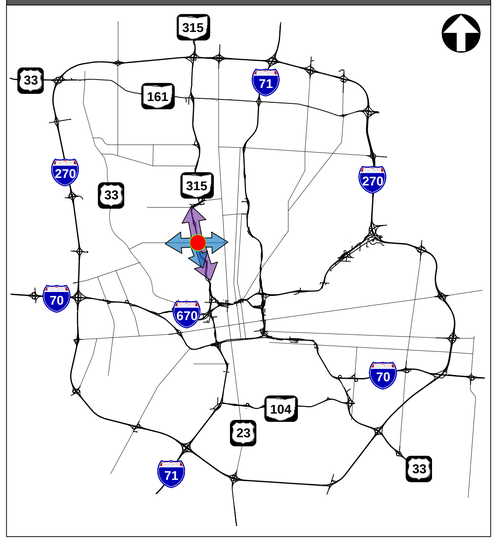
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

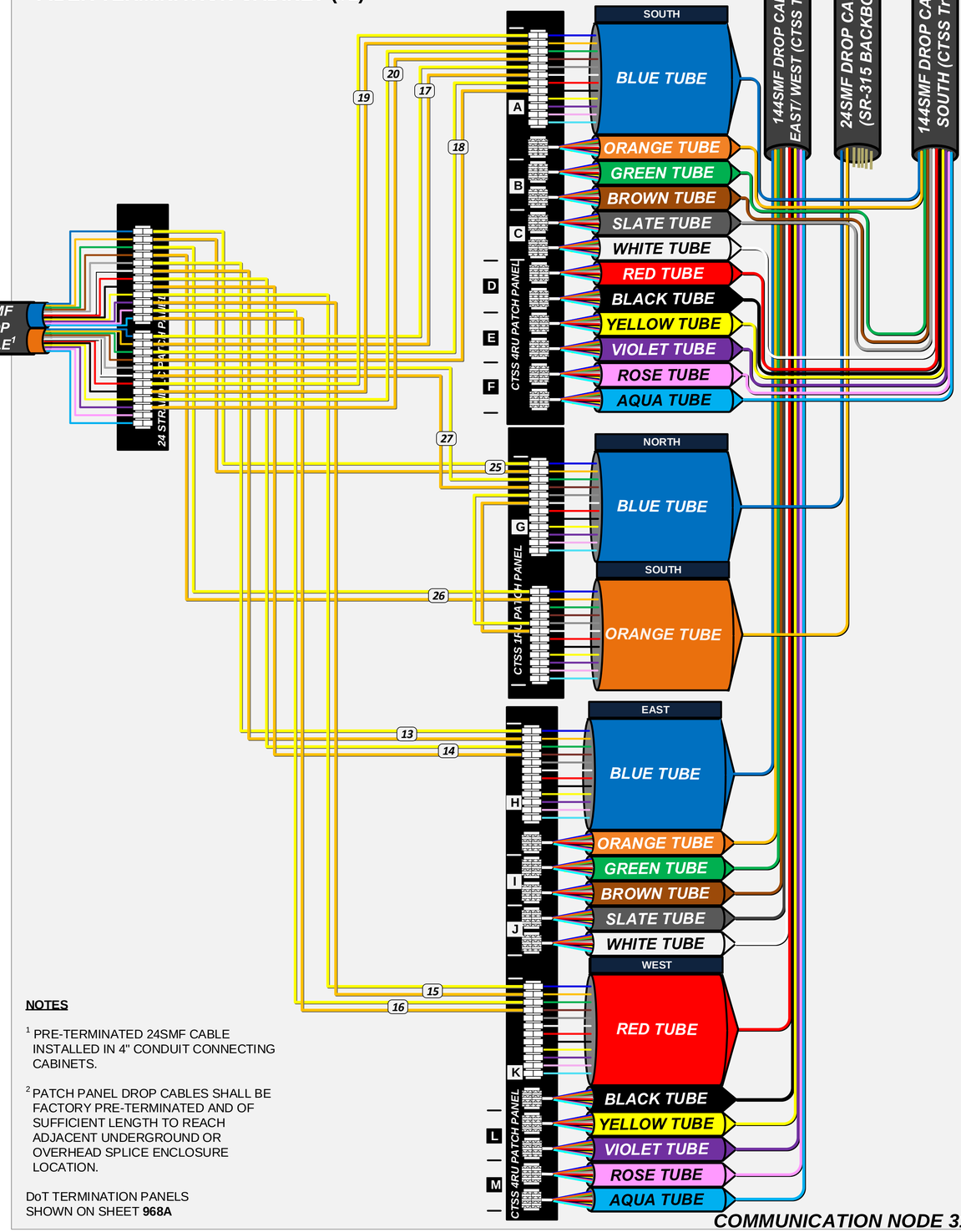
EQUIPMENT AND TERMINATION CABINET
- LH/ZX — GBIC OPTICAL TRANSCEIVER
- LH - SHORT HAUL
- ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE B - SEE SHEET 969



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 SPLICE ENCLOSURE LOCATION.

DoT TERMINATION PANELS SHOWN ON SHEET **968A**

COMMUNICATION NODE 315004.4

REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

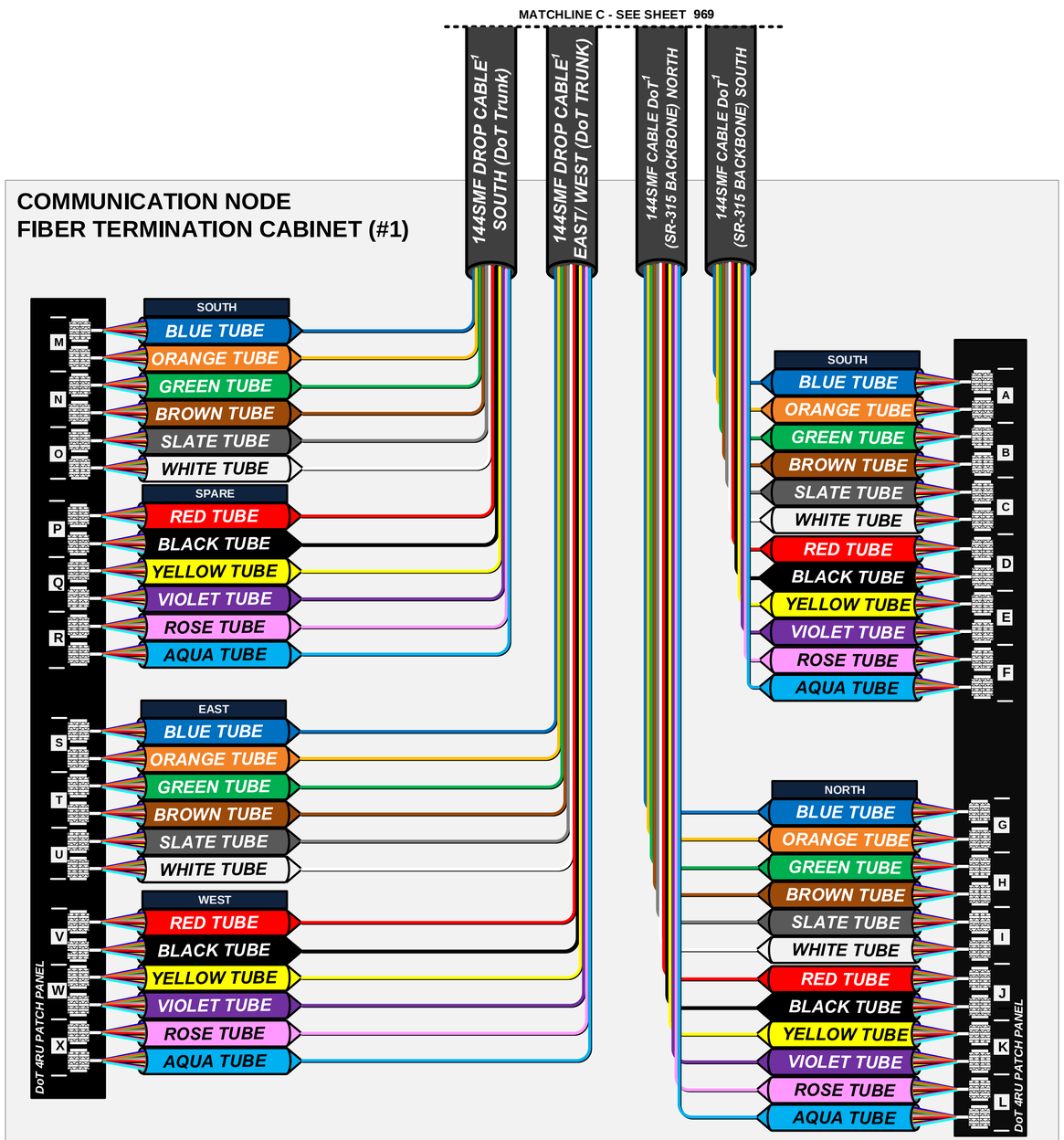
PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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MATCHLINE C - SEE SHEET 969

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

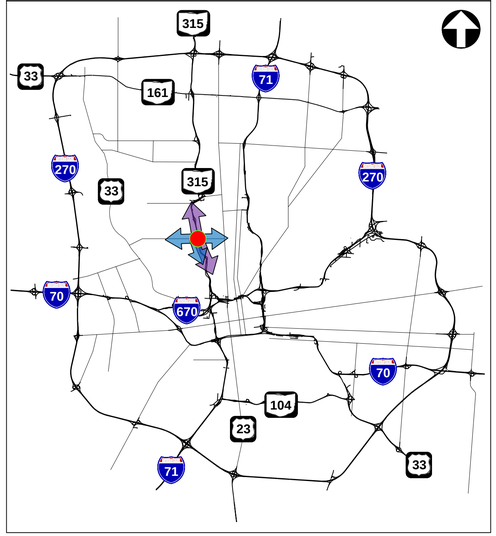
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **968**

[1] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 315004.4

REFER TO SHEET 638 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

968A
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TO:
EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
SEE SHEET 972

EXISTING 288SMF CABLE NORTH SR-315 BACKBONE

SE U-2 IN PROPOSED 48" PULL BOX

6 Cable Entries
336 Fusion Splices
10 Buffer Tubes Passed Through Unspliced
DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

1 Cable Entries
12 Fusion Splices
DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF DROP CABLE (SR-315 BACKBONE)
144SMF DROP CABLE DoT (SR-315 BACKBONE) NORTH
144SMF DROP CABLE DoT (SR-315 BACKBONE) SOUTH
24SMF CABLE ODOT (Future)
24SMF CABLE ODOT (Future)

MATCHLINE A - SEE THIS SHEET

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

EXSITNG 288SMF CABLE SOUTH SR-315 BACKBONE

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)
24SMF CABLE ODOT (Future)

SE U-1 IN PROPOSED 48" PULL BOX

SE U-1
DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE
5 Cable Entries
312 Fusion Splices
3 Coiled Buffer Tubes

1-6 7-12 1-6 7-12 1-6 7-12 1-6 7-12

144SMF CABLE WEST LANE AVE TRUNK

144SMF CABLE EAST LANE AVE TRUNK

TO:
INT# 4160: LANE AVE. AT SR 315 NB RAMPS
SEE SHEET 756

TO:
INT# 4161: FYFFE RD. / FRED TAYLOR DR. AT LANE AVE.
SEE SHEET 757

MATCHLINE A - SEE THIS SHEET

24SMF DROP CABLE (SR-315 BACKBONE)
24SMF CABLE ODOT (Future)
24SMF CABLE ODOT (Future)

SE U-3
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE
4 Cable Entries
144 Fusion Splices
15 Coiled Buffer Tubes

1-6 7-12 1-6 7-12 1-6 7-12

144SMF DROP CABLE EAST/ WEST (CTSS TRUNK)
24SMF DROP CABLE (SR-315 BACKBONE)
144SMF DROP CABLE SOUTH (CTSS Trunk)
144SMF CABLE SOUTH SR-315 TRUNK
144SMF DROP CABLE SOUTH (DoT Trunk)
144SMF DROP CABLE EAST/ WEST (DoT TRUNK)
144SMF DROP CABLE DoT (SR-315 BACKBONE) NORTH
144SMF DROP CABLE DoT (SR-315 BACKBONE) SOUTH

MATCHLINE B - SEE SHEET 968

MATCHLINE C - SEE SHEET 968A

TO:
INT# 4195: KINNEAR RD. AT OLENTANGY RIVER RD.
SEE SHEET 746

LEGEND

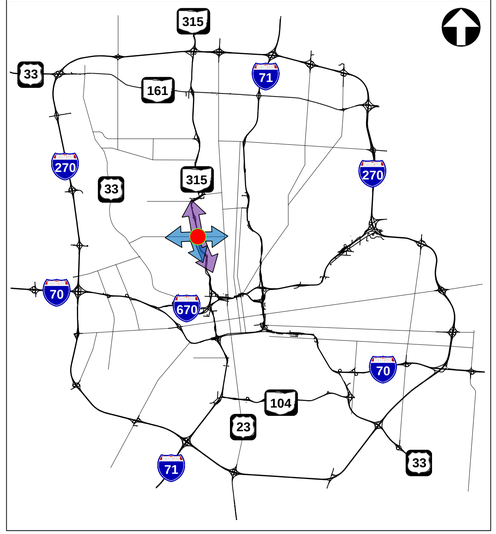
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER — LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 315004.4

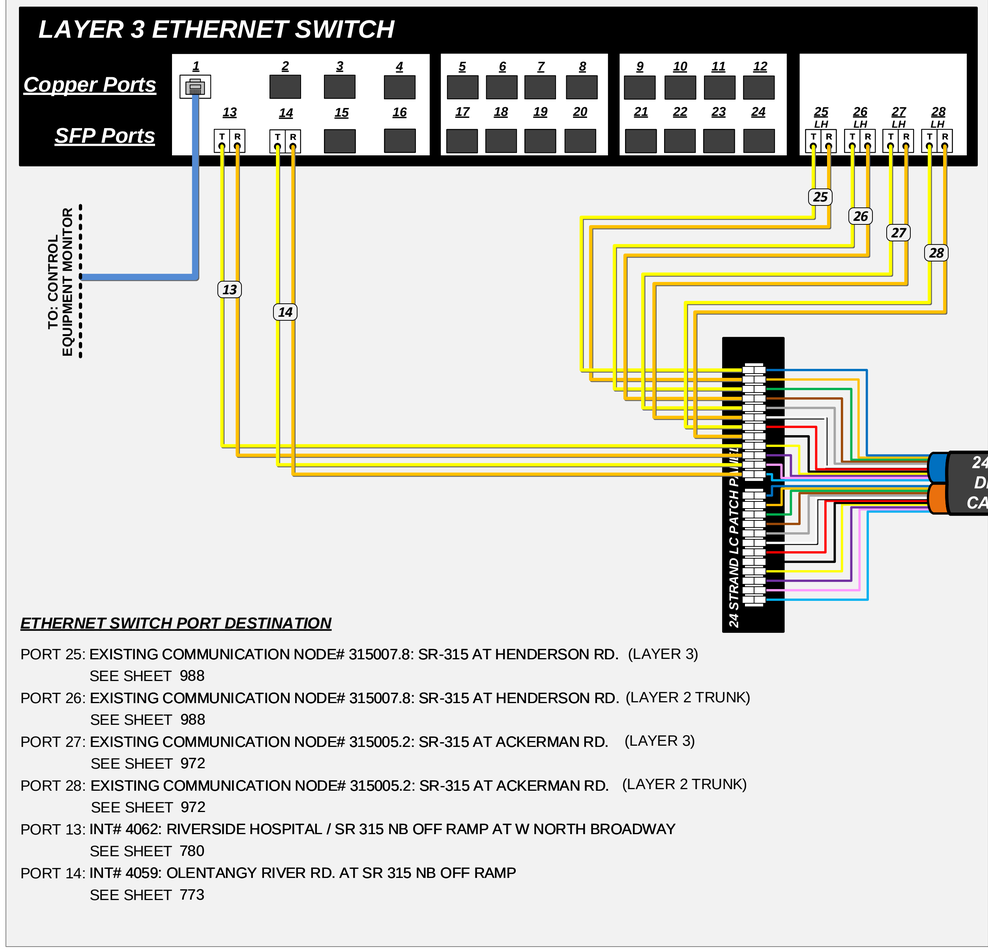
REFER TO SHEET 638 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 670 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 25: EXISTING COMMUNICATION NODE# 315007.8: SR-315 AT HENDERSON RD. (LAYER 3)
SEE SHEET 988

PORT 26: EXISTING COMMUNICATION NODE# 315007.8: SR-315 AT HENDERSON RD. (LAYER 2 TRUNK)
SEE SHEET 988

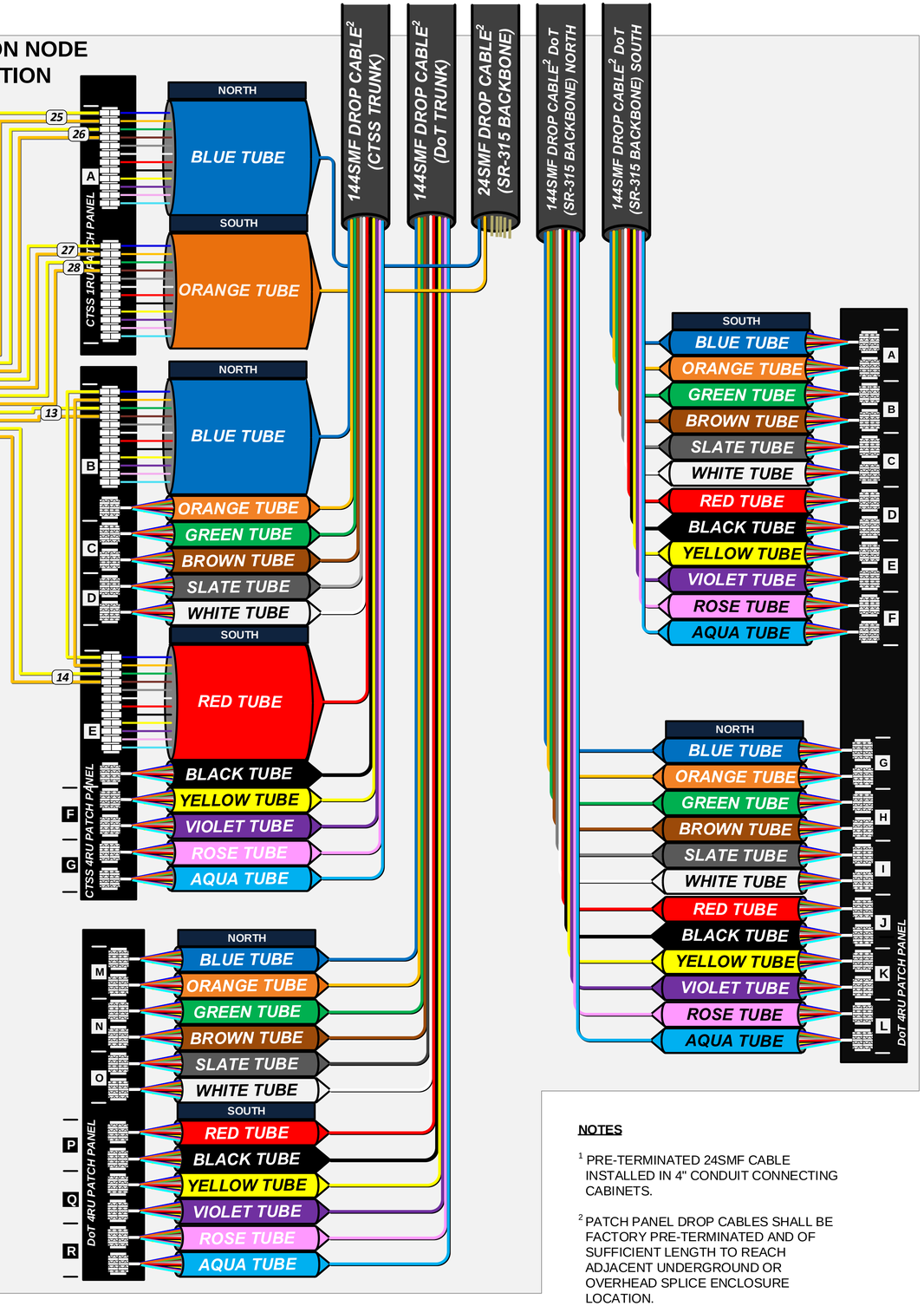
PORT 27: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD. (LAYER 3)
SEE SHEET 972

PORT 28: EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD. (LAYER 2 TRUNK)
SEE SHEET 972

PORT 13: INT# 4062: RIVERSIDE HOSPITAL / SR 315 NB OFF RAMP AT W NORTH BROADWAY
SEE SHEET 780

PORT 14: INT# 4059: OLENTANGY RIVER RD. AT SR 315 NB OFF RAMP
SEE SHEET 773

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

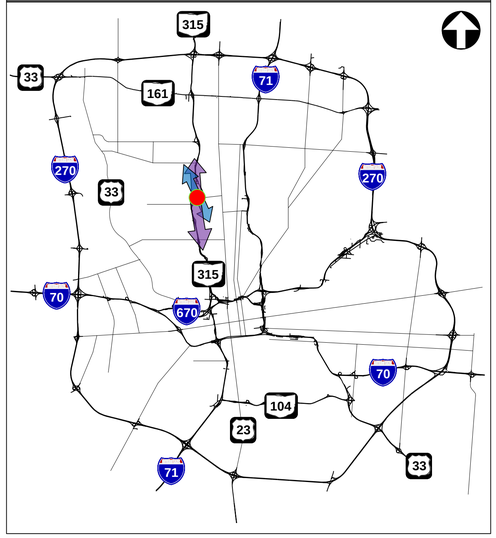
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



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 SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 315006.2

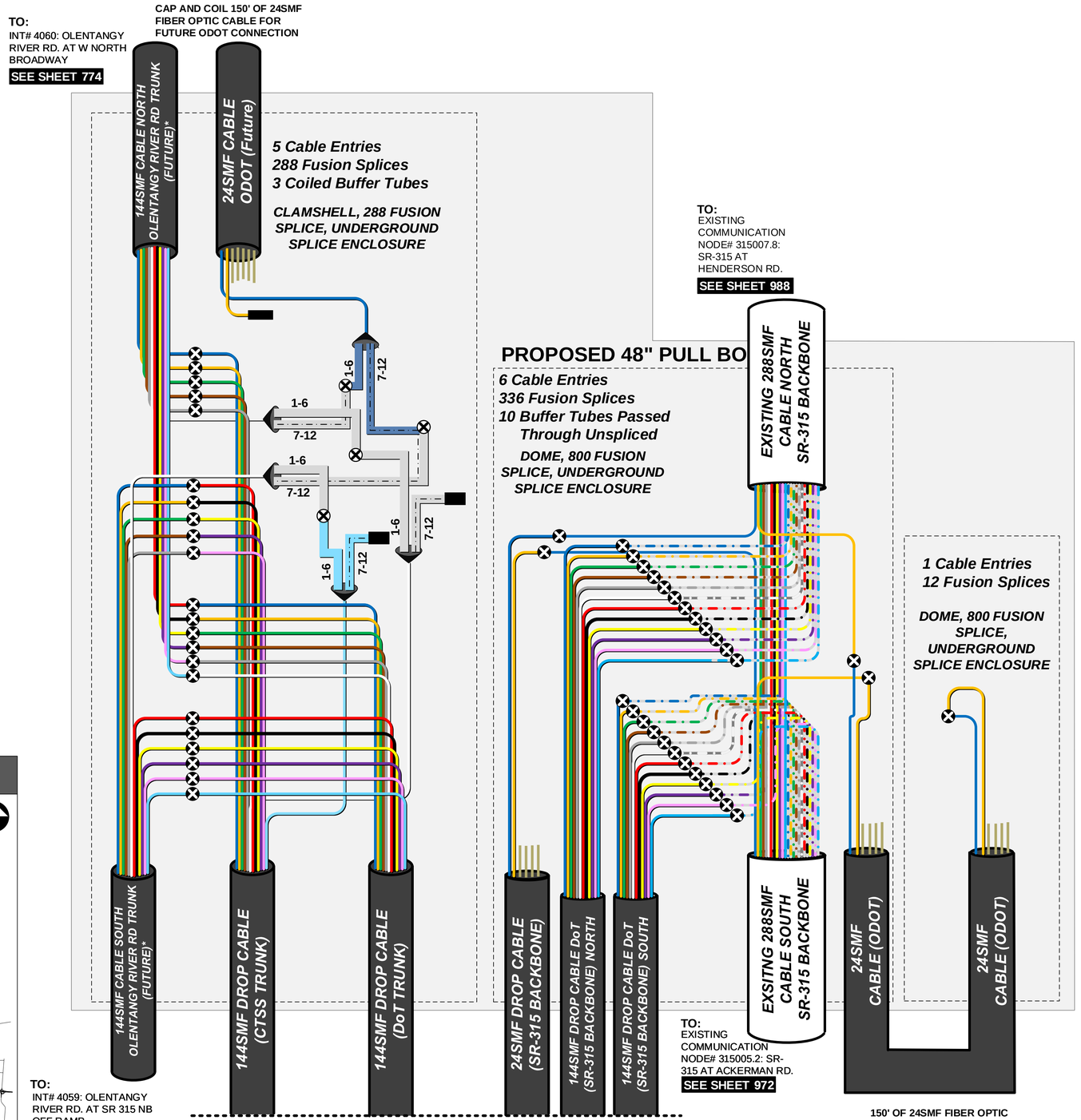
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 315006.2: NORTH BROADWAY AT SR-315
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

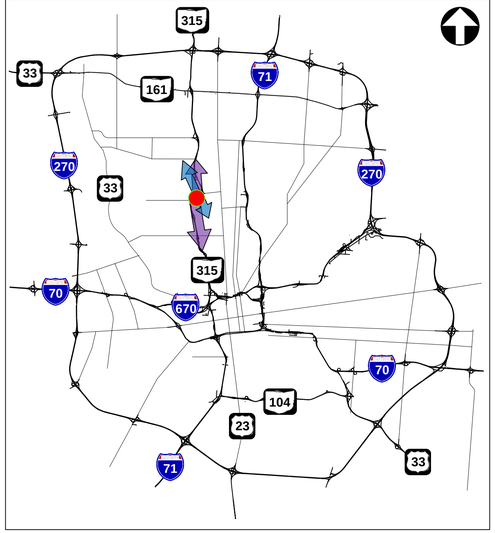
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER, LH - SHORT HAUL, ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 315006.2

REFER TO SHEET 641 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 665 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 315006.2: NORTH BROADWAY AT SR-315
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

971
1000

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH - I*

Ports: 1 2 3 4 5 6 7 8 9 10 11 12

SFP Modules: 1 2 LH 3 LH 4 LH 5 LH 6 LH 7 LH 8 LH 9 LH 10 11 12

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

24 STRAND LC PATCH PANEL

24 STRAND LC PATCH PANEL

144SMF DROP CABLE[2] WEST (CTSS TRUNK)

144SMF DROP CABLE[2] EAST (CTSS TRUNK)

24SMF DROP CABLE[2] (SR-315 BACKBONE)

CTSS 4RU PATCH PANEL

CTSS 1RU 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

SOUTH: BLUE TUBE

NORTH: ORANGE TUBE

ETHERNET SWITCH I - PORT DESTINATION

PORT 2: INT# 4003: ACKERMAN RD. AT FRED TAYLOR DR. SEE SHEET 766

PORT 3: INT# 4001: ACKERMAN RD. AT SR 315 SB RAMPS SEE SHEET 764

PORT 4: INT# 3038: HUDSON ST. AT INDIANOLA AVE. SEE SHEET 784

PORT 5: PROPOSED COMMUNICATION NODE# 315006.2: NORTH BROADWAY AT SR-315 (LAYER 3) SEE SHEET 970

PORT 6: PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315 (LAYER 3) SEE SHEET 968

PORT 7: LINK TO EXISTING CAMERAS - IR-70 AT BROAD ST. AND IR-670 AT GRANDVIEW AVE.

PORT 8: PROPOSED COMMUNICATION NODE# 315006.2: NORTH BROADWAY AT SR-315 (LAYER 2 TRUNK) SEE SHEET 970

PORT 9: PROPOSED COMMUNICATION NODE# 315004.4: LANE AVE. AT SR-315 (LAYER 2 TRUNK) SEE SHEET 968

PORT 10: INT# 4002: ACKERMAN RD. AT SR 315 NB RAMPS SEE SHEET 765

ETHERNET SWITCH II - PORT DESTINATION

PORT 2: INT# 3025: ARCADIA AVE. AT INDIANOLA AVE. SEE SHEET 790

PORT 3: INT# 4057: OLENTANGY RIVER RD. AT RIVERVIEW DR. SEE SHEET 771

PORT 4: INT# 4056: HARLEY DR. AT OLENTANGY RIVER RD. SEE SHEET 770

PROPOSED LAYER 3 ETHERNET SWITCH - II

SFP Modules / Ports: 1 2 LH 3 LH 4 LH 5 6 7 8 9 10 11 12

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

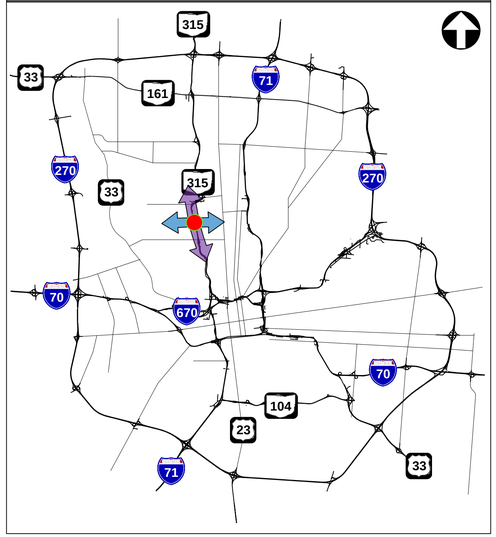
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



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 SPLICE ENCLOSURE LOCATION.

[3] DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

*FOR EXISTING CONFIGURATION OF LAYER 3 ETHERNET SWITCH REFER TO SHEET **974**

DoT TERMINATION PANELS SHOWN ON SHEET **972A**

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

COMMUNICATION NODE 315005.2

REFER TO SHEET 648 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
COMMUNICATIONS DIAGRAM

EXISTING COMMU

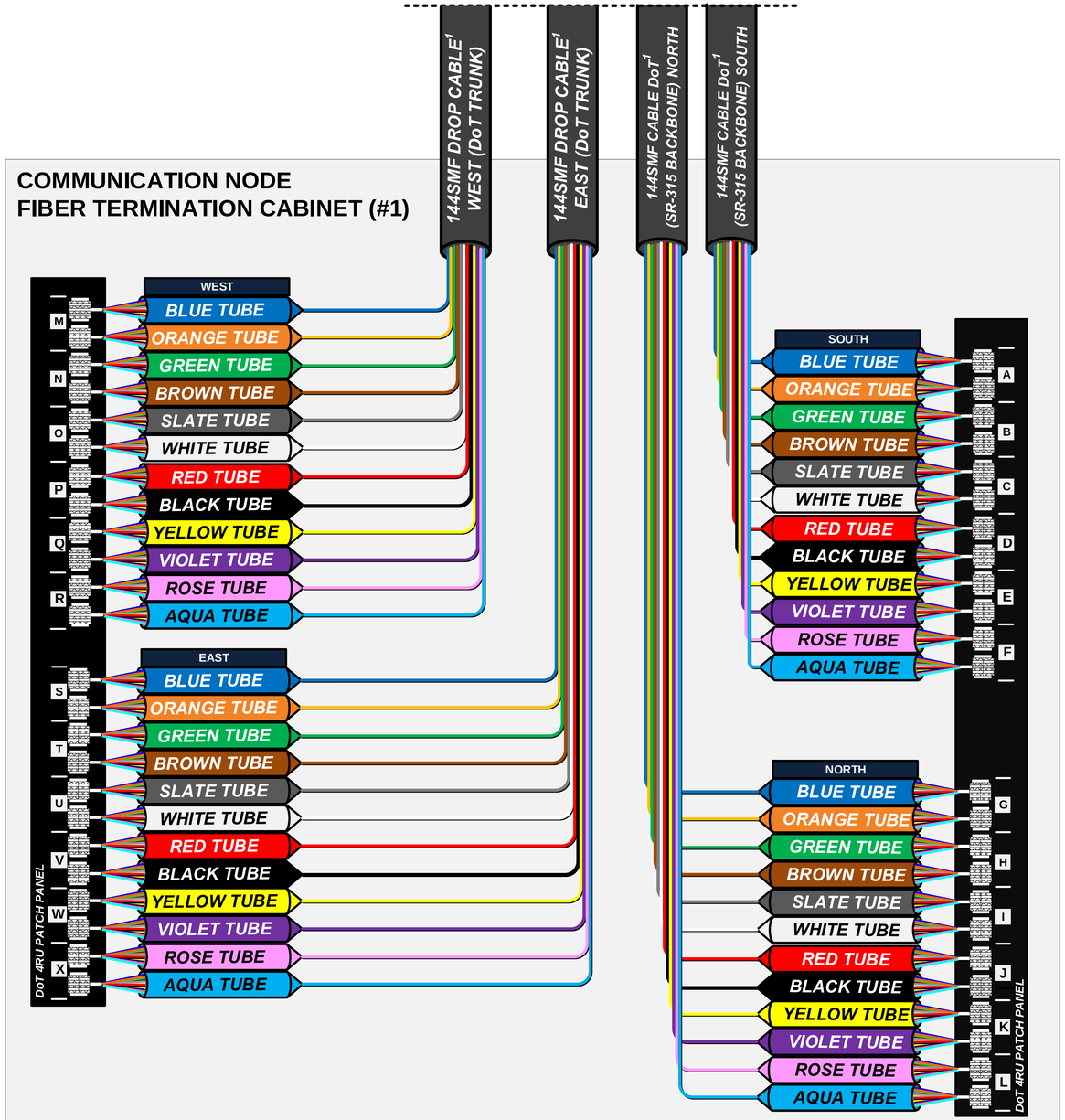
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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MATCHLINE B - SEE SHEET 973

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

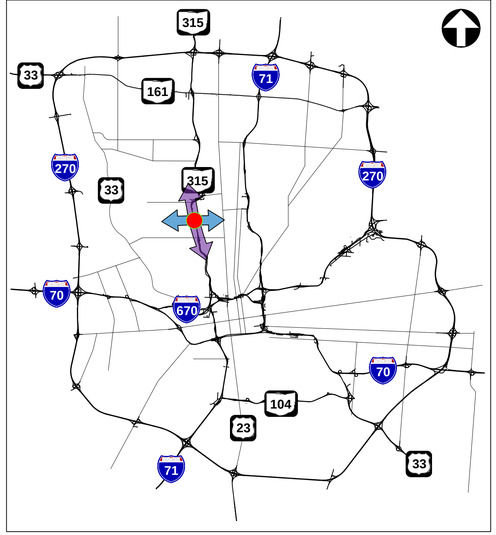
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **972**

[1] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 315005.2

REFER TO SHEET 648 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

288SMF CABLE EAST ACKERMAN RD TRUNK

TO:
INT# 4003:
ACKERMAN RD. AT
FRED TAYLOR DR.
SEE SHEET 766

PROPOSED 48" PULL BOX

7 Cable Entries
432 Fusion Splices
14 Coiled Buffer Tubes

1-6 7-12
1-6 7-12
1-6 7-12
1-6 7-12
1-6 7-12

1 Cable Entries
12 Fusion Splices
DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF CABLE ODOT (Future)

TO:
PROPOSED
COMMUNICATION NODE#
315006.2: NORTH
BROADWAY AT SR-315
SEE SHEET 971

TO:
INT# 4002: ACKERMAN
RD. AT SR 315 NB RAMPS
SEE SHEET 765

24SMF CABLE ODOT (Future)

288SMF CABLE NORTH SR-315 BACKBONE

6 Cable Entries
168 Pr. Fusion Splices
192 Total Fusion Splices
12 Coiled Buffer Tubes
16 Buffer Tubes Passed Through Unspliced

144SMF CABLE WEST ACKERMAN RD TRUNK

TO:
INT# 4001: ACKERMAN
RD. AT SR 315 SB RAMPS
SEE SHEET 764

144SMF DROP CABLE WEST (CTSS TRUNK)
144SMF DROP CABLE EAST (CTSS TRUNK)
24SMF DROP CABLE (SR-315 BACKBONE)
144SMF DROP CABLE WEST (DoT TRUNK)
144SMF DROP CABLE EAST (DoT TRUNK)
144SMF CABLE DoT (SR-315 BACKBONE) NORTH
144SMF CABLE DoT (SR-315 BACKBONE) SOUTH
288SMF CABLE SOUTH SR-315 BACKBONE

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

EXISTING SPLICE ENCLOSURE

MATCHLINE A - SEE SHEET 972

MATCHLINE B - SEE SHEET 972A

TO:
PROPOSED
COMMUNICATION
NODE# 315004.4:
LANE AVE. AT SR-315
SEE SHEET 969

LEGEND

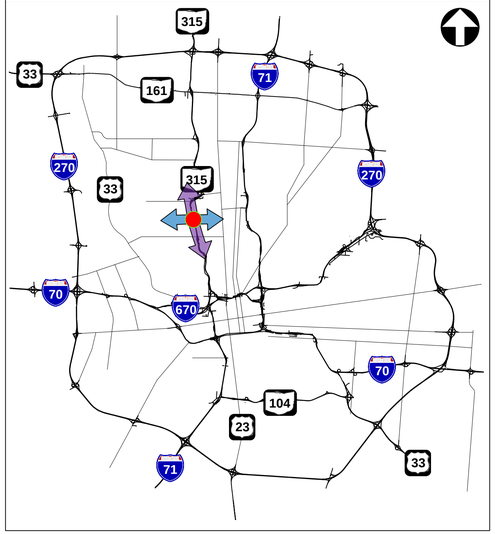
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER, LH - SHORT HAUL, ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 315005.2
REFER TO SHEET 648 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

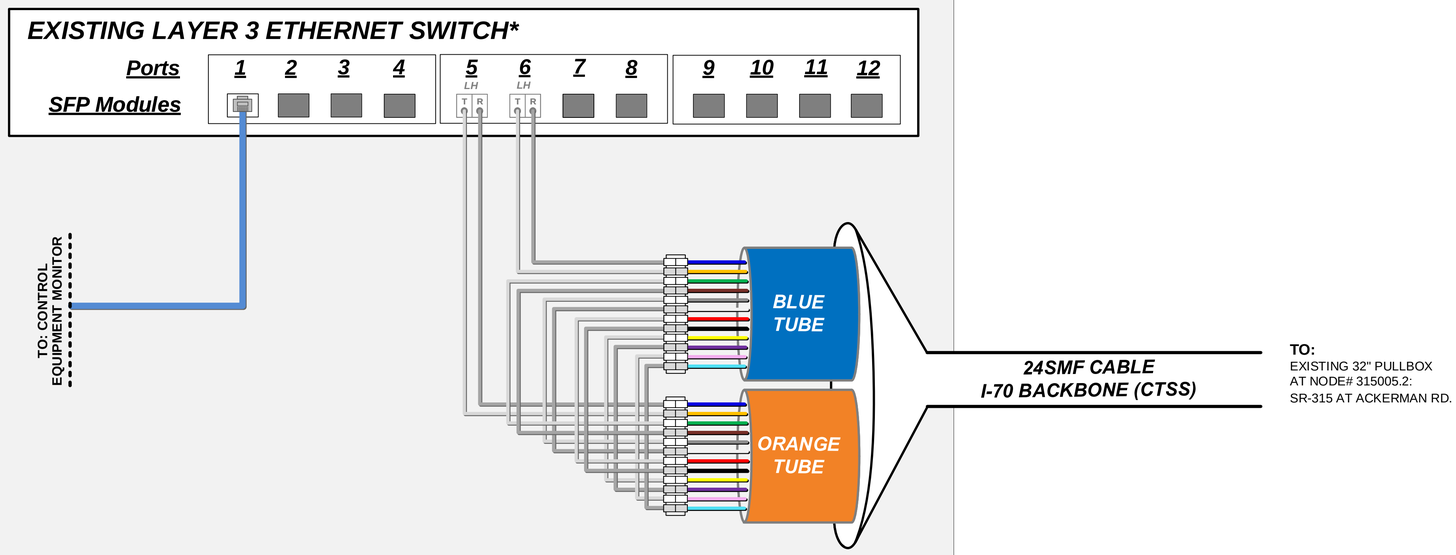
EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 315007.8: SR-315 AT HENDERSON RD.

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

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

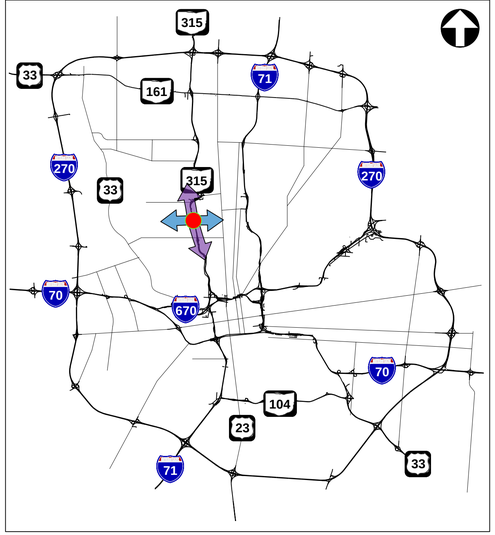
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- *LH/ZX* GBIC OPTICAL TRANSCEIVER (*LH/ZX*: LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

*FOR PROPOSED CONFIGURATION OF LAYER 3 ETHERNET SWITCH REFER TO SHEET **972**

COMMUNICATION NODE 315005.2

REFER TO SHEET 648 FOR CONSTRUCTION PLAN DETAILS

REFER TO SHEET 668 FOR COMM OVERVIEW DETAILS

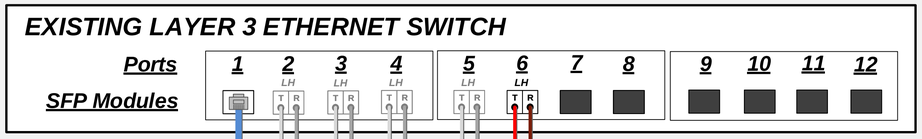
CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH



TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270004.5: GEORGESVILLE RD. AT IR-270

PORT 3: EXISTING CONNECTION TO INT# 1090: ALKIRE RD. AT HARRISBURG PIKE.

PORT 4: EXISTING CONNECTION TO INT# 1093: BRIGGS RD./OCTOBER RIDGE DR. AT HARRISBURG PIKE.

PORT 5: EXISTING CONNECTION TO INT# 1015: CENTRAL AVE. AT SULLIVANT AVE.

PORT 6: **PROPOSED COMMUNICATION NODE# 270055.0: IR-270 AT IR-71**
SEE SHEET 983

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE C - SEE SHEET 977

144SMF DROP CABLE[2] (CTSS Trunk)

144SMF DROP CABLE CTSS[2] (I-270 BACKBONE) EAST

144SMF DROP CABLE CTSS[2] (I-270 BACKBONE) WEST

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

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

CTSS 4RU PATCH PANEL

CTSS 4RU PATCH PANEL

CTSS 4RU PATCH PANEL

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 SPLICE ENCLOSURE LOCATION.

DoT TERMINATION PANELS SHOWN ON SHEET **976**

LEGEND

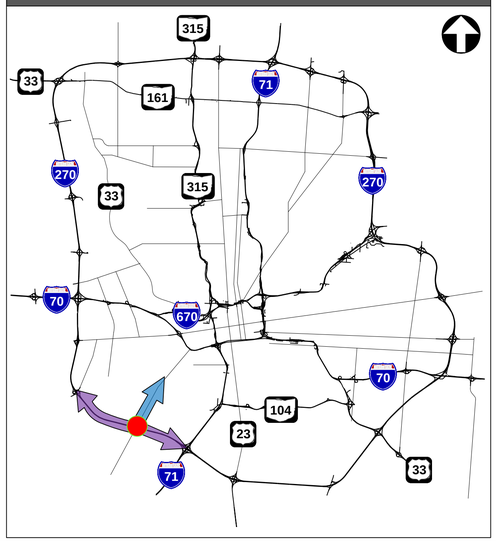
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270002.1
REFER TO SHEET 568 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270002.1: IR-270 AT HARRISBURG PIKE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

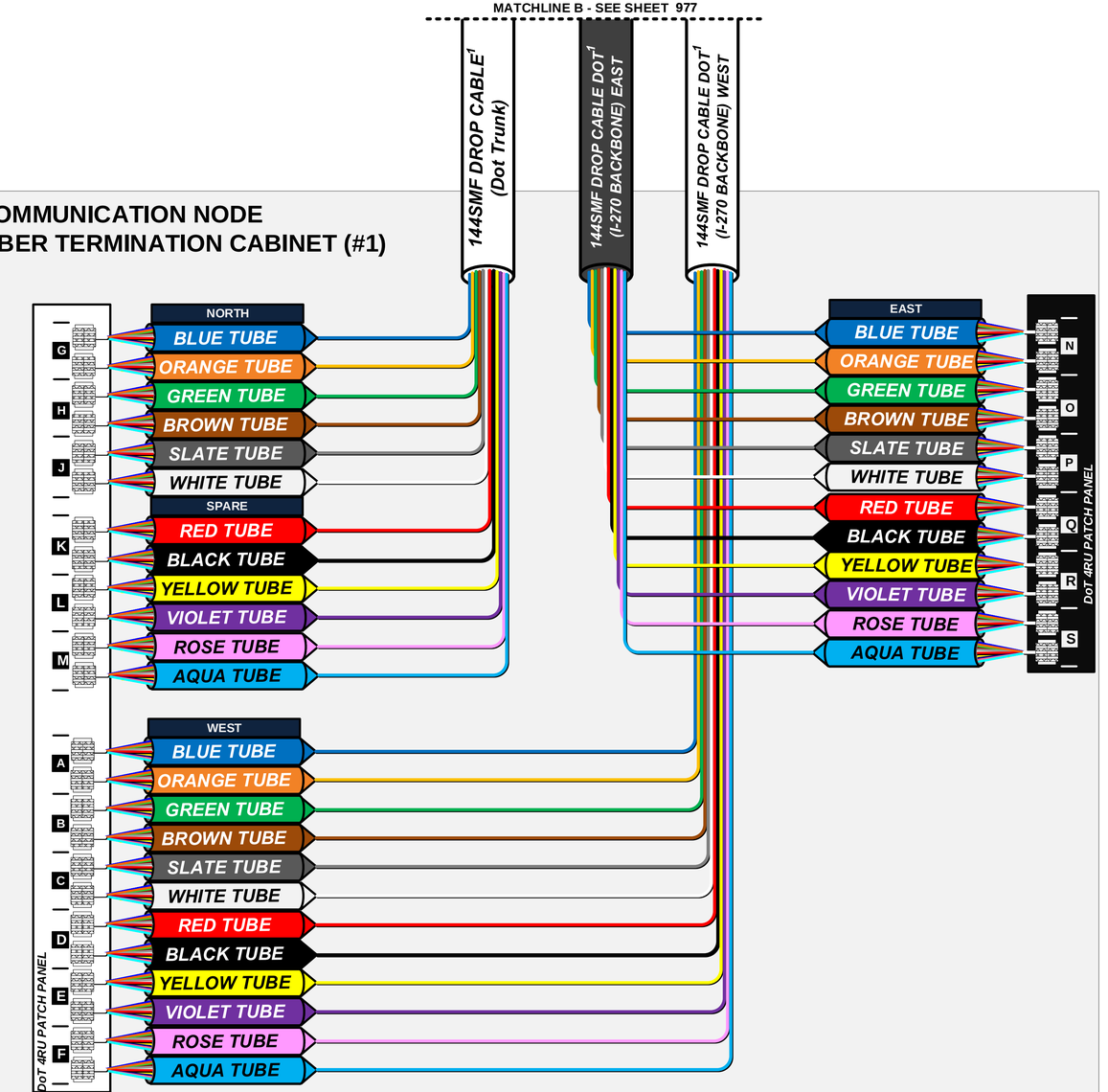
975
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MATCHLINE B - SEE SHEET 977

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

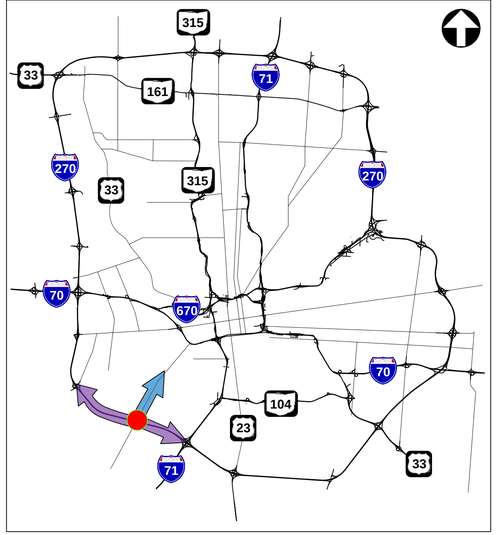
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **975**

[1] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 270002.1

REFER TO SHEET 568 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270002.1: IR-270 AT HARRISBURG PIKE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

PROPOSED 48" PULL BOX

7 Cable Entries
288 Proposed Fusion Splices
576 Total Splices
2 Coiled Buffer Tubes

288SMF CABLE WEST IR-270 BACKBONE

TO:
EXISTING
COMMUNICATION
NODE# 270004.5: IR-270
AT GEORGESVILLE RD.

288SMF CABLE EAST I-270 BACKBONE

TO:
EXISTING
COMMUNICATION
NODE# 270055.0:
IR-270 AT IR-71

144SMF DROP CABLE DOT (I-270 BACKBONE) EAST
144SMF DROP CABLE DOT (I-270 BACKBONE) WEST
144SMF DROP CABLE CTSS (I-270 BACKBONE) EAST
144SMF DROP CABLE CTSS (I-270 BACKBONE) WEST
EXISTING 24SMF CABLE (ODOT)

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

MATCHLINE A - SEE THIS SHEET

EXISTING 48" PULL BOX

144SMF CABLE NORTH HARRISBURG TRUNK

TO:
INT# 1090: ALKIRE
RD. AT HARRISBURG
PIKE

24SMF CABLE ODOT

MATCHLINE A - SEE THIS SHEET

144SMF DROP CABLE DOT (I-270 BACKBONE) EAST
144SMF DROP CABLE DOT (I-270 BACKBONE) WEST
144SMF DROP CABLE CTSS (I-270 BACKBONE) EAST
144SMF DROP CABLE CTSS (I-270 BACKBONE) WEST

1-6
7-12
1-6
7-12
1-6
7-12

144SMF DROP CABLE (Dot Trunk)
144SMF DROP CABLE (CTSS Trunk)

EXISTING SPLICE ENCLOSURE

MATCHLINE B - SEE SHEET 976
MATCHLINE C - SEE SHEET 975

LEGEND

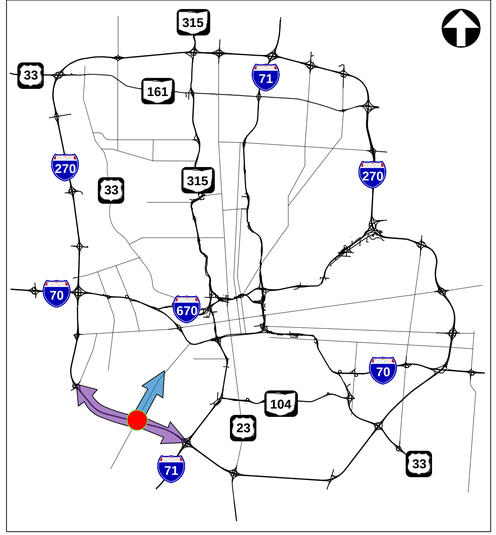
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270002.1

REFER TO SHEET 568 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

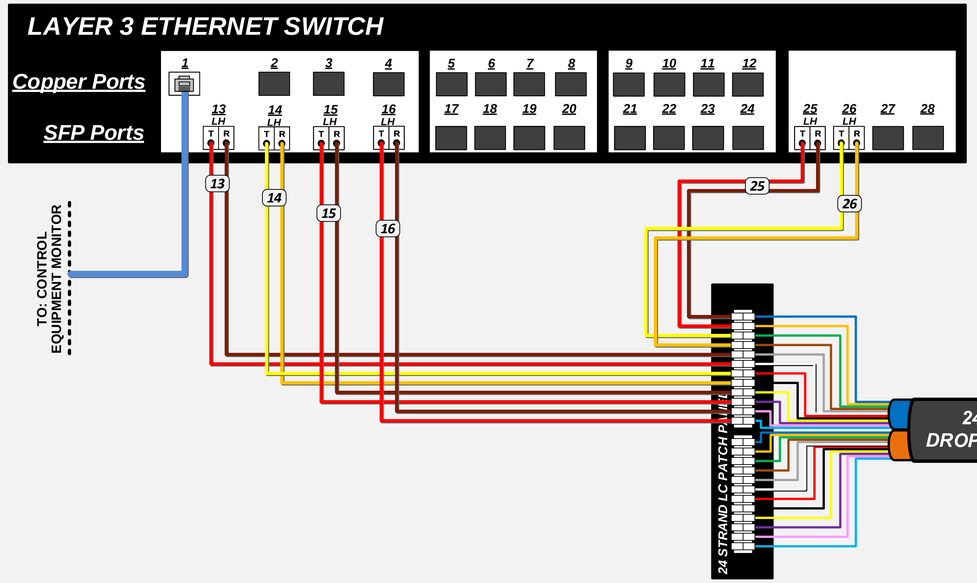
EXISTING COMMUNICATION NODE# 270002.1: IR-270 AT HARRISBURG PIKE.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

977
1000

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 13: INT# 2164: E MAIN ST. AT I-270 NB OFF RAMP
SEE SHEET 907

PORT 14: INT# 2165: E MAIN ST. AT MCNAUGHTEN RD.
SEE SHEET 908

PORT 15: INT# 2163: E MAIN ST. AT NOE-BIXBY RD.
SEE SHEET 906

PORT 16: INT# 2163: E MAIN ST. AT NOE-BIXBY RD.
SEE SHEET 906

PORT 25: EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.
SEE SHEET 991

PORT 26: EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

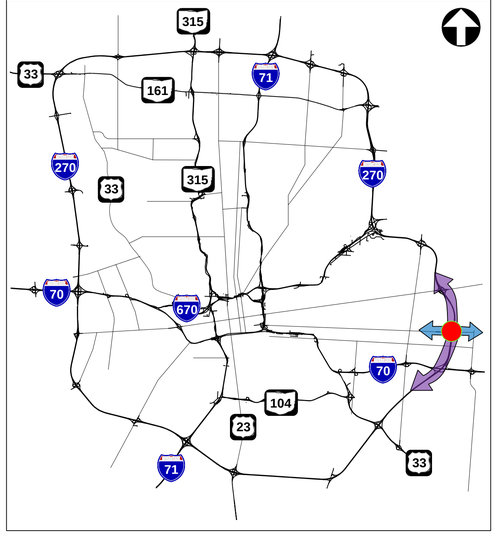
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

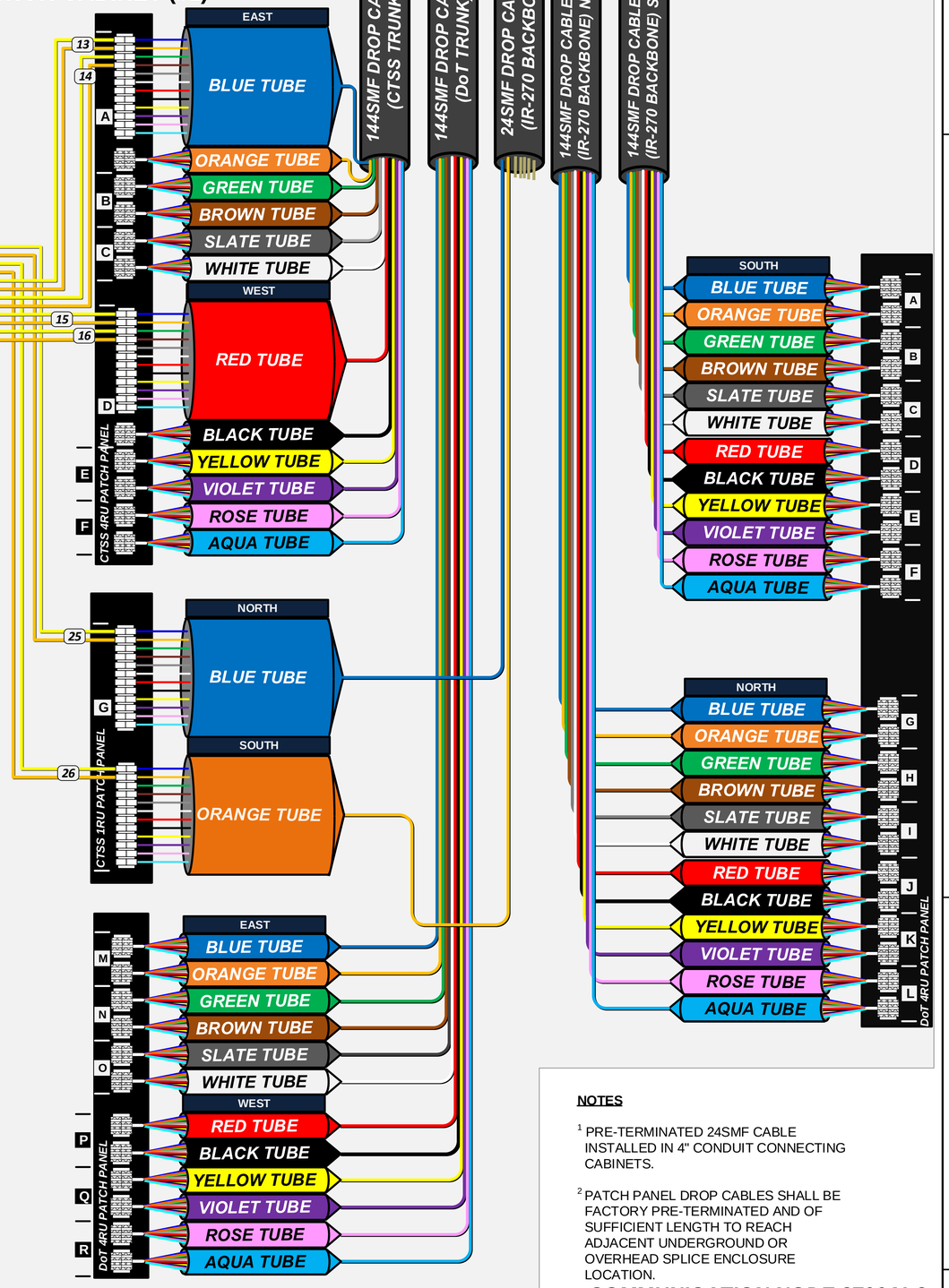
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE B - SEE SHEET 979

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 SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 270041.3

REFER TO SHEET 634 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 270041.3: IR-270 AT MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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PROPOSED 48" PULL BOX

7 Cable Entries
336 Fusion Splices
22 Coiled Buffer Tubes
10 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO: EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST. **SEE SHEET 992**

EXISTING 288SMF CABLE NORTH IR-270 BACKBONE

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE (ODOT)

150' OF 24SMF FIBER OPTIC CABLE CAP AND COIL FOR FUTURE ODOT CONNECTION

144SMF CABLE NORTH I-270 BACKBONE (CTSS)
144SMF CABLE SOUTH I-270 BACKBONE (CTSS)
144SMF CABLE DOT (IR-270 BACKBONE) NORTH
144SMF CABLE DOT (IR-270 BACKBONE) SOUTH

TO: EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70

EXSITNG 288SMF CABLE SOUTH IR-270 BACKBONE

MATCHLINE A - SEE THIS SHEET

PROPOSED 48" PULL BOX

8 Cable Entries
600 Fusion Splices
25 Coiled Buffer Tubes

24SMF CABLE ODOT (Future)

1-6 7-12 1-6 7-12 1-6 7-12 1-6 7-12

MATCHLINE A - SEE THIS SHEET

144SMF CABLE NORTH I-270 BACKBONE (CTSS)
144SMF CABLE SOUTH I-270 BACKBONE (CTSS)
144SMF CABLE DOT (IR-270 BACKBONE) NORTH
144SMF CABLE DOT (IR-270 BACKBONE) SOUTH

TO: INT# 2164: E MAIN ST. AT I-270 NB OFF RAMP **SEE SHEET 907**

144SMF CABLE EAST MAIN ST TRUNK

144SMF CABLE WEST MAIN ST TRUNK

TO: INT# 2163: E MAIN ST. AT NOE-BIXBY RD. **SEE SHEET 906**

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF DROP CABLE (CTSS TRUNK)
144SMF DROP CABLE (DoT TRUNK)
24SMF DROP CABLE (IR-270 BACKBONE)
144SMF DROP CABLE DOT (IR-270 BACKBONE) NORTH
144SMF DROP CABLE DOT (IR-270 BACKBONE) SOUTH

MATCHLINE B - SEE SHEET 978

LEGEND

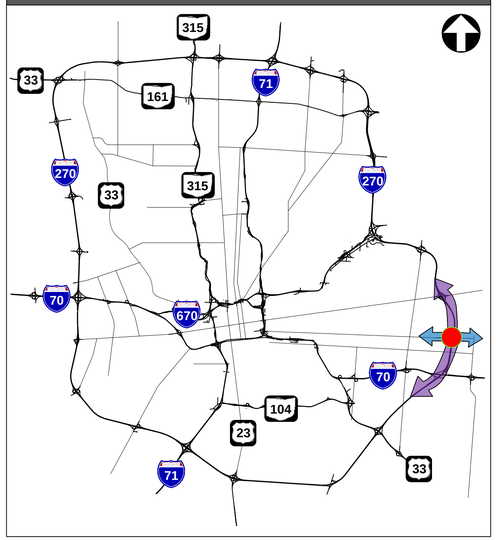
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270041.3

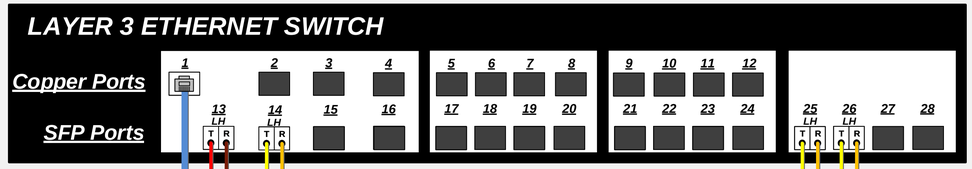
REFER TO SHEET 634 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 270041.3: IR-270 AT MAIN ST.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO: CONTROL EQUIPMENT MONITOR

13

14

25

26

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 13: INT# SIG4910: WATKINS RD./ASKINS RD AT WINCHESTER PIKE
SEE SHEET 922

PORT 14: INT# 2199: NOE-BIXBY RD. AT WINCHESTER PIKE
SEE SHEET 926

PORT 25: EXISTING COMMUNICATION NODE# 270045.5: IR-270 AT HAMILTON RD.
SEE SHEET 986

PORT 26: PROPOSED COMMUNICATION NODE# 270052.7: IR-270 AT US-23
SEE SHEET 982

MATCHLINE A - SEE SHEET 981

144SMF DROP CABLE[2] EAST (CTSS TRUNK)

24SMF DROP CABLE[2] (I-270 BACKBONE)

144SMF DROP CABLE[2] EAST (DoT TRUNK)

144SMF DROP CABLE DoT[1] (I-270 BACKBONE) NORTH

144SMF DROP CABLE DoT[1] (I-270 BACKBONE) SOUTH

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

13

14

CTSS /ARU PATCH PANEL

A
B
C
D
E
F

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

25

26

CTSS 1RU PATCH PANEL

G

NORTH
BLUE TUBE

SOUTH
ORANGE TUBE

DoT 4RU PATCH PANEL

A
B
C
D
E
F

NORTH-WEST
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

NORTH-EAST
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

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 4RU PATCH PANEL

G
H
I
J
K
L
M
N
O
P
Q
R

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

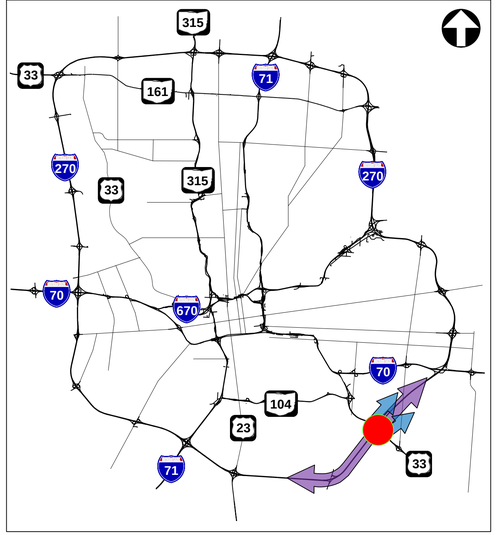
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



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 SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 270046.1

REFER TO SHEET 624 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

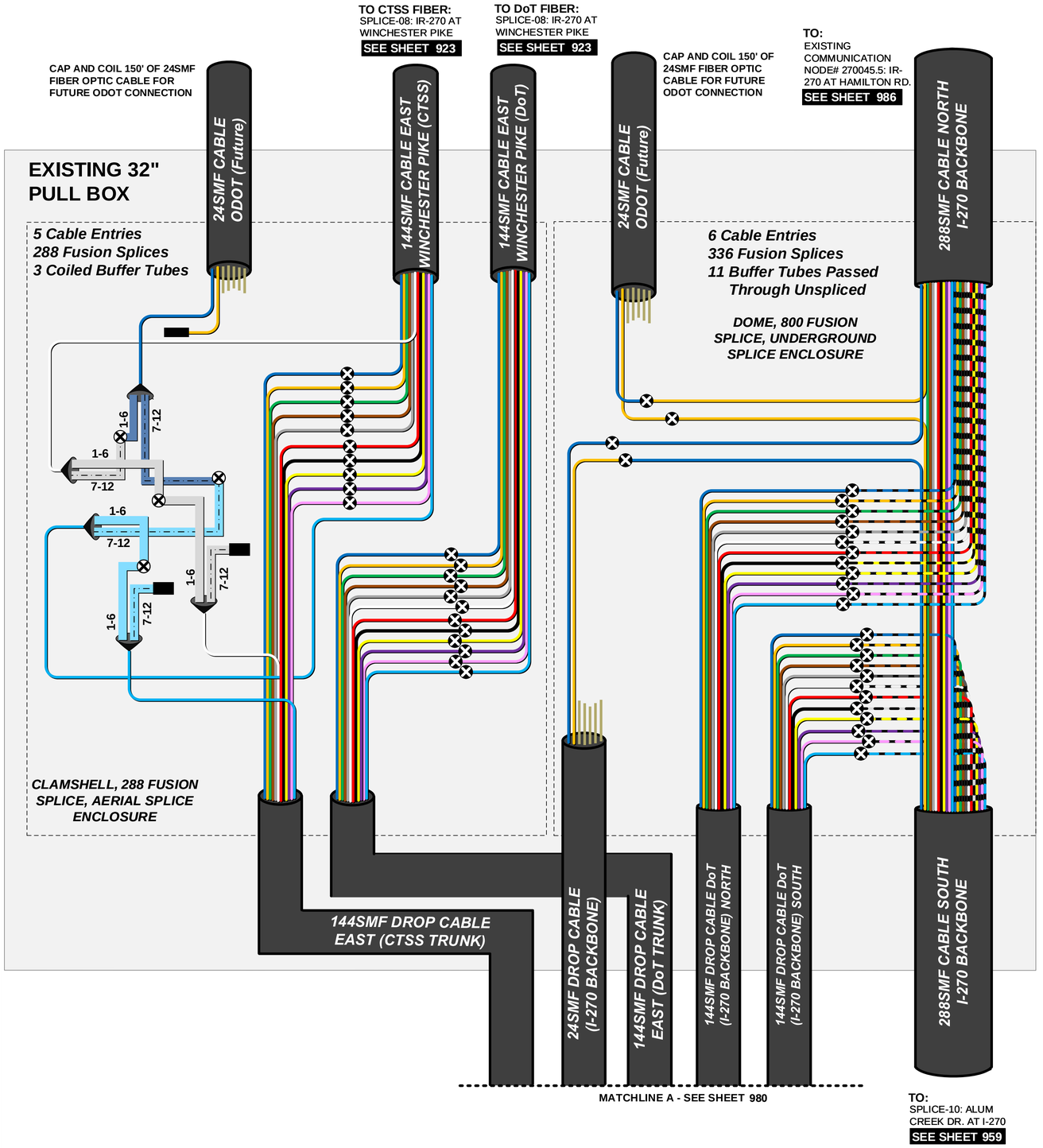
CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

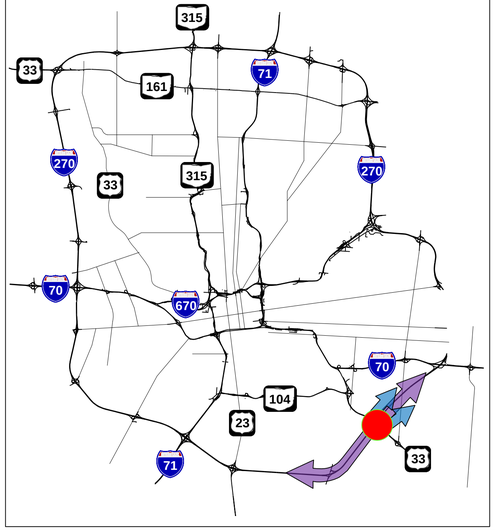
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270046.1

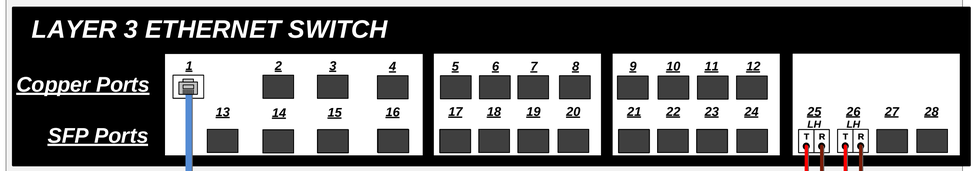
REFER TO SHEET 624 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO: CONTROL EQUIPMENT MONITOR

25

26

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

25

26

A

CTSS 1RU PATCH PANEL

EAST

BLUE TUBE

WEST

ORANGE TUBE

24SMF DROP CABLE[2] (I-270 BACKBONE)

ETHERNET SWITCH PORT DESTINATION

PORT 25: PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33
SEE SHEET 980

PORT 26: PROPOSED COMMUNICATION NODE# 270055.0: IR-270 AT IR-71
SEE SHEET 983

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

PROPOSED 48" PULL BOX

4 Cable Entries
48 Fusion Splices
22 Buffer Tubes Passed Through Unspliced

TO:
PROPOSED COMMUNICATION NODE# 270055.0: IR-270 AT IR-71
SEE SHEET 983

TO:
SPLICE-10: ALUM CREEK DR. AT I-270
SEE SHEET 959

288SMF CABLE WEST I-270 BACKBONE

288SMF CABLE EAST I-270 BACKBONE

24SMF CABLE (ODOT)

150' OF 24SMF FIBER OPTIC CABLE CAP AND COIL FOR FUTURE ODOT CONNECTION

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

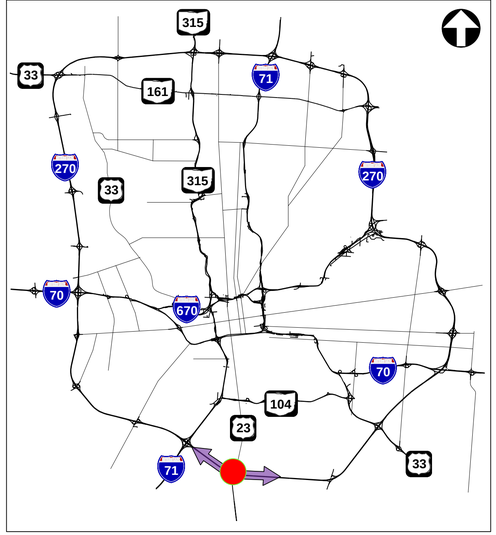
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX (T R T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



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 SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 270052.7
REFER TO SHEET 627 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

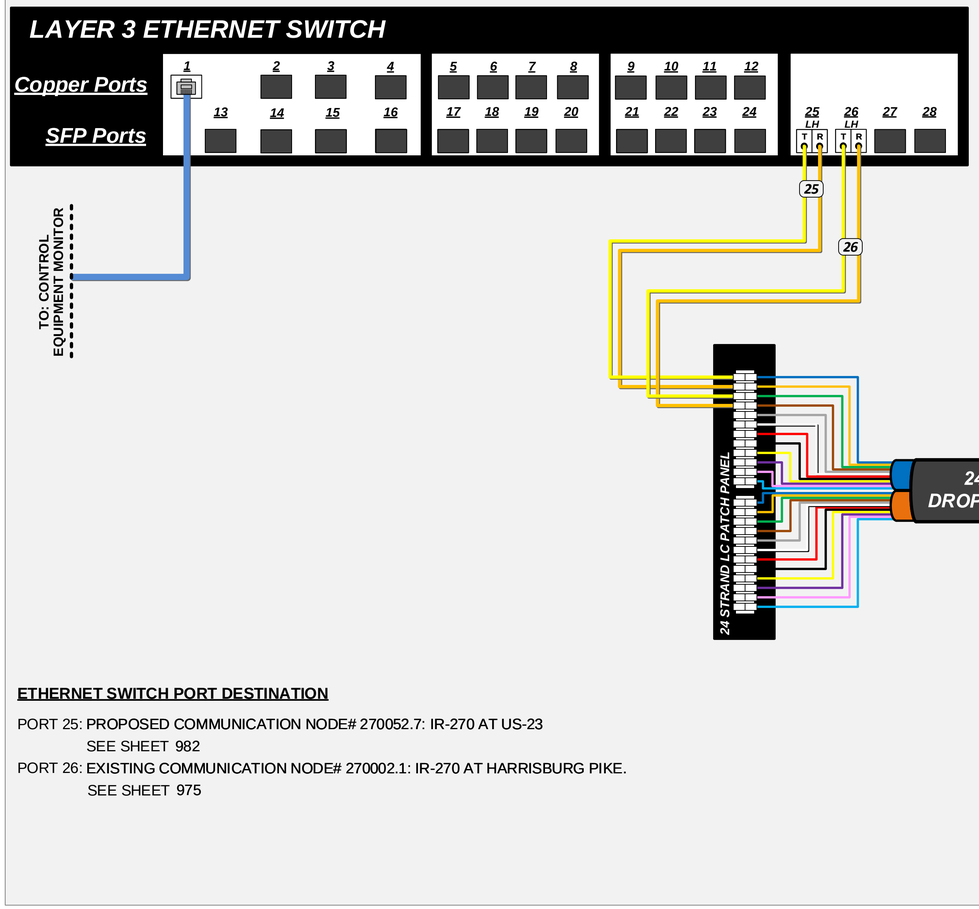
CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 270052.7: IR-270 AT US-23
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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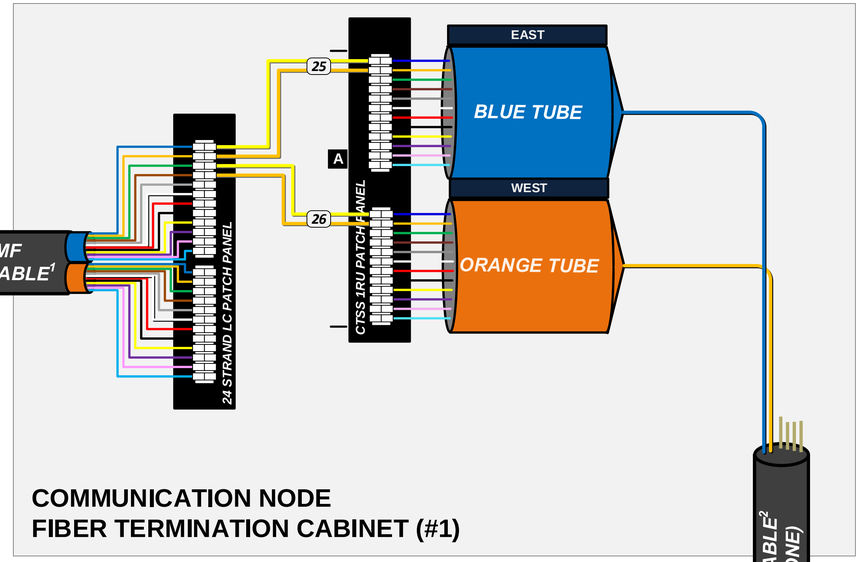
COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 25: PROPOSED COMMUNICATION NODE# 270052.7: IR-270 AT US-23
SEE SHEET 982

PORT 26: EXISTING COMMUNICATION NODE# 270002.1: IR-270 AT HARRISBURG PIKE.
SEE SHEET 975



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

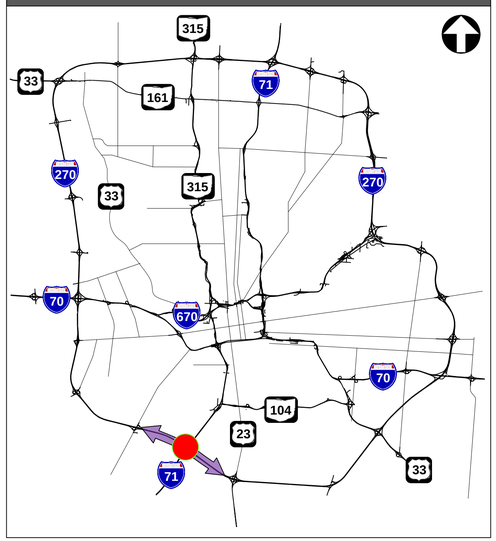
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



PROPOSED 48" PULL BOX

4 Cable Entries
48 Fusion Splices
22 Buffer Tubes Passed Through Unspliced

TO: EXISTING COMMUNICATION NODE# 270002.1: IR-270 AT HARRISBURG PIKE.
SEE SHEET 977

TO: PROPOSED COMMUNICATION NODE# 270052.7: IR-270 AT US-23
SEE SHEET 982

288SMF CABLE WEST I-270 BACKBONE

288SMF CABLE EAST I-270 BACKBONE

24SMF CABLE (ODOT)

150' OF 24SMF FIBER OPTIC CABLE CAP AND COIL FOR FUTURE ODOT CONNECTION

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

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 SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 270055.0

REFER TO SHEET 629 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

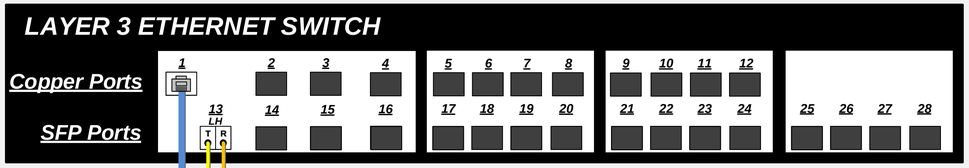
CIP: 540007 - 100006
PID NUMBER: 82573

PROPOSED COMMUNICATION NODE# 270055.0: IR-270 AT IR-71
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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COMMUNICATION EQUIPMENT ROOM



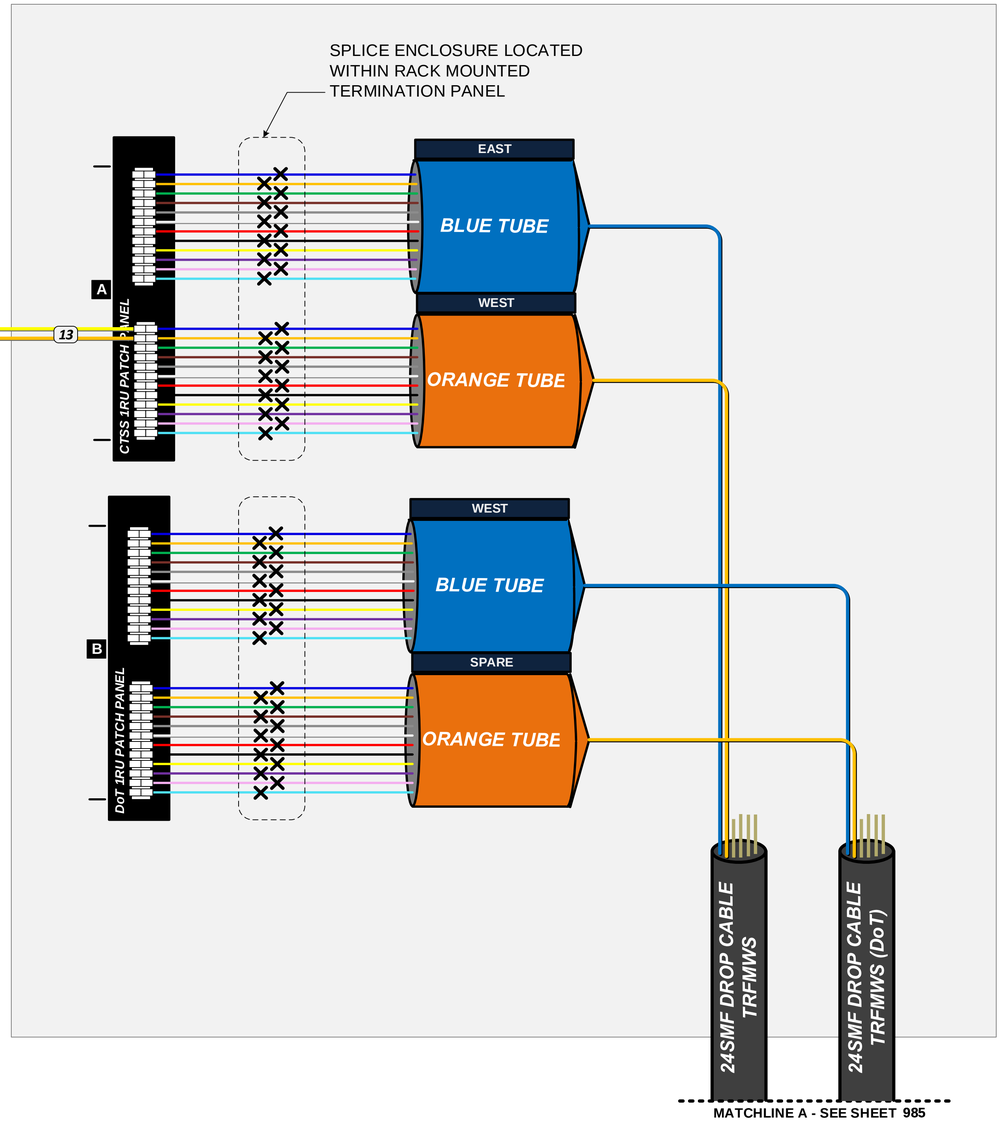
TO: CONTROL EQUIPMENT MONITOR

13

13

ETHERNET SWITCH PORT DESTINATION

PORT 13: TMC COMMUNICATIONS: E TWENTY-FIFTH AVE
SEE SHEET 993



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

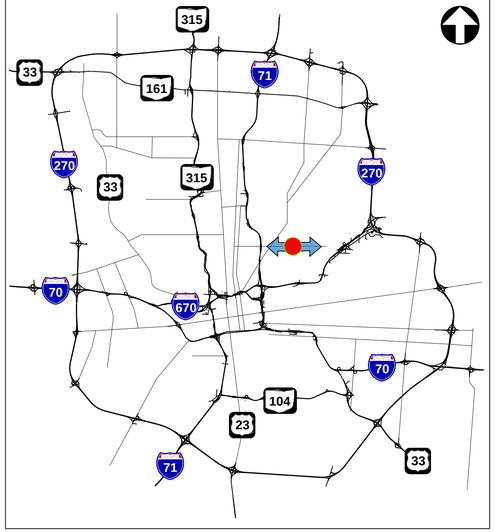
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



CITY OF COLUMBUS – TRAFFIC MAINTENANCE WORKSHOP

REFER TO SHEET 478 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 676 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

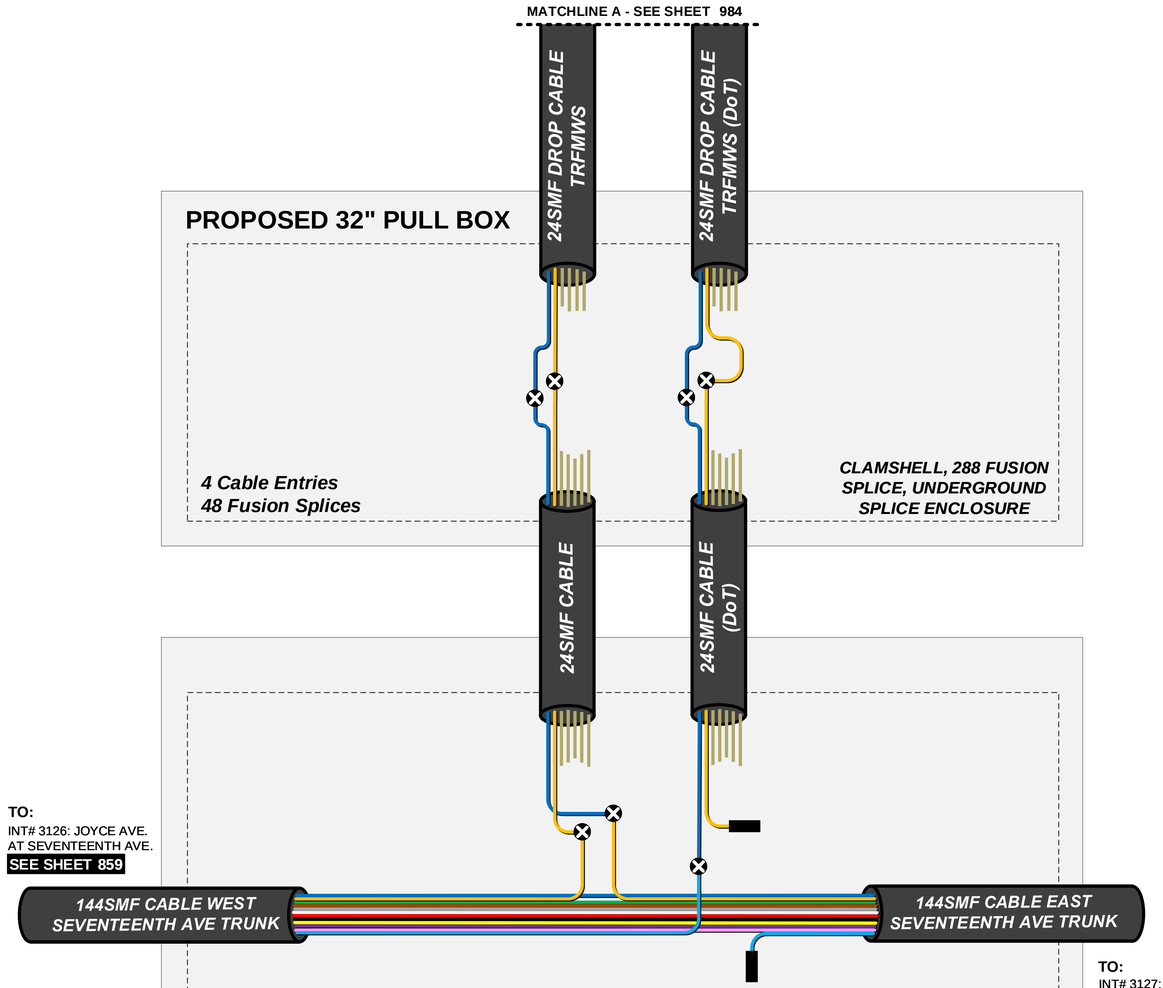
COC_TMWS: 1820 SEVENTEENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

984
1000

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LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

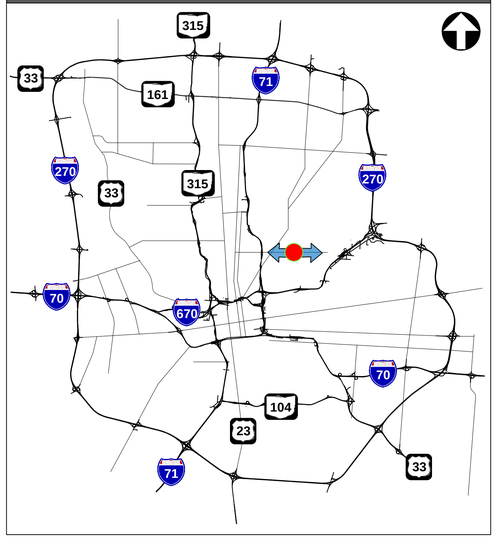
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- *LH/ZX LH/ZX* GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



CITY OF COLUMBUS – TRAFFIC MAINTENANCE WORKSHOP

REFER TO SHEET 478 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 676 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

COC_TMWS: 1820 SEVENTEENTH AVE.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 5 6 7 8 9 10 11 12

SFP Modules: 1 (8P8C) | 2–8 (LH, T/R) | 9–12 (empty)

TO: CONTROL EQUIPMENT MONITOR

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70

PORT 3: PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70

PORT 4: EXISTING CONNECTION TO INT# 2160: HAMILTON RD. AT REFUGEE RD.

PORT 5: EXISTING CONNECTION TO INT# 2217: REFUGEE RD. AT TENNYSON BLVD.

PORT 6: EXISTING CONNECTION TO INT# 2190: GENDER RD. AT REFUGEE RD.

PORT 7: PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33
SEE SHEET 980

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE B - SEE SHEET 987

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

24SMF DROP CABLE[2] (I-270 BACKBONE)

144SMF DROP CABLE[2] DoT (I-270 BACKBONE) NORTH

144SMF DROP CABLE[2] DoT (I-270 BACKBONE) SOUTH

CTSS 4RU 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

CTSS 1RU PATCH PANEL

- NORTH: BLUE TUBE
- SOUTH: ORANGE TUBE

DoT 4RU 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 4RU 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
- 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

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 SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 270045.5

REFER TO SHEET 595 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

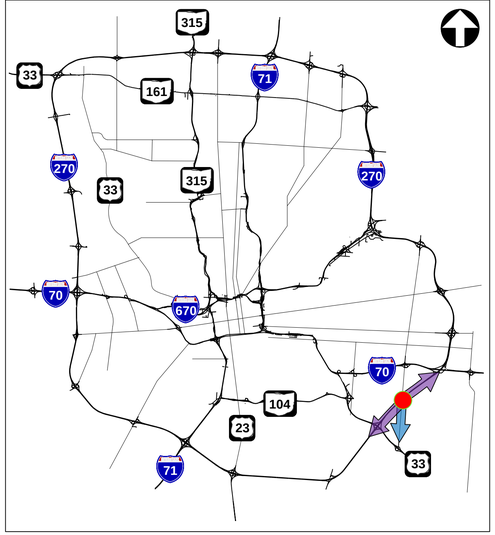
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100006
PID NUMBER: 82573

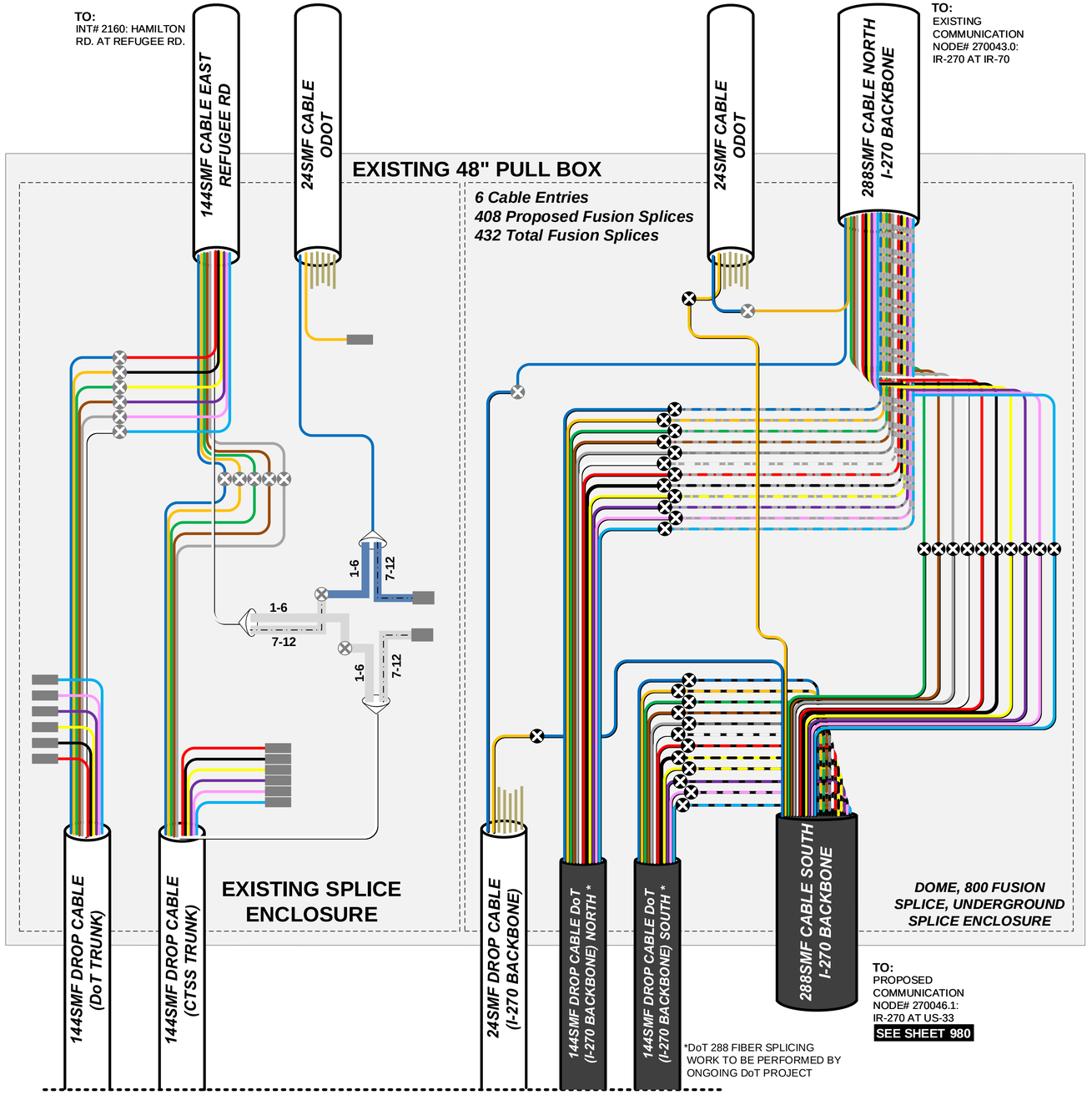
EXISTING COMMUNICATION NODE# 270045.5: IR-270 AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

986
1000

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LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

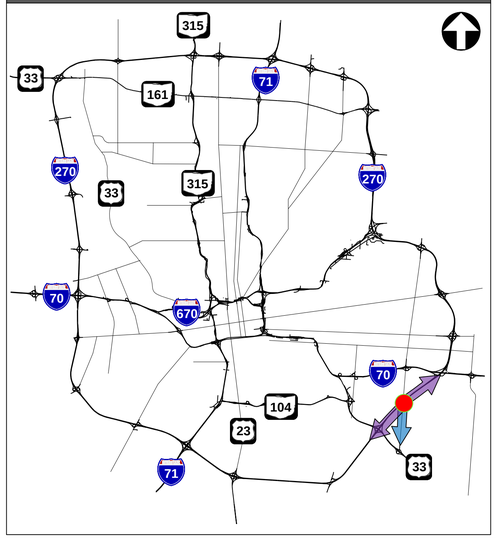
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270045.5

REFER TO SHEET 595 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 682 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270045.5: IR-270 AT HAMILTON RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

EXISTING COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 5 6 7 8 9 10 11 12

SFP Modules: 1 2 LH 3 LH 4 LH 5 LH 6 LH 7 8 LH 9 LH 10 LH 11 LH 12 LH (T R)

TO: CONTROL EQUIPMENT MONITOR

EXISTING CONNECTION TO INT# 4109: HENDERSON RD. AT SR-315 NB RAMPS.

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION TO INT# 4030: HENDERSON RD. AT LAURALAND DR.

PORT 3: EXISTING CONNECTION TO INT# 4108: HENDERSON RD. AT OLENTANGY BLVD. SEE SHEET 731

PORT 4: EXISTING CONNECTION TO INT# 4110: HENDERSON RD. AT OLENTANGY RIVER RD.

PORT 5: PROPOSED COMMUNICATION NODE# 315006.2: NORTH BROADWAY AT SR-315 (LAYER 3) **(Revised) SEE SHEET 970**

PORT 6: EXISTING COMMUNICATION NODE# 315008.6: SR-315 AT BETHEL RD. (LAYER 3)

PORT 7: EXISTING CONNECTION TO INT# 4109: HENDERSON RD. AT SR-315 NB RAMPS

PORT 8: **EXISTING COMMUNICATION NODE# 071116.2: I-71 AT MORSE RD.** (LAYER 2 TRUNK) **(Revised) SEE SHEET 999**

PORT 9: INT# 4043: E HENDERSON RD./ W HENDERSON RD. AT N HIGH ST. SEE SHEET 730

PORT 10: INT# 4064: MILTON AVE. AT W NORTH BROADWAY SEE SHEET 782

PORT 11: INT# 3069: CALUMET ST. AT E NORTH BROADWAY SEE SHEET 783

PORT 12: PROPOSED COMMUNICATION NODE# 315006.2: NORTH BROADWAY AT SR-315 (LAYER 2 TRUNK) SEE SHEET 970

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

EXISTING 144 STRAND CABLE

CTSS 144 STRAND LC PATCH PANEL

EAST — BLUE TUBE

WEST — RED TUBE

EXISTING 24 STRAND DROP CABLE

CTSS 24 STRAND LC PATCH PANEL

NORTH — BLUE TUBE

NODE# 315008.6 SR-315 AT BETHEL RD.

SOUTH — ORANGE TUBE

NODE# 315006.2 SR-315 AT NORTH BROADWAY

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

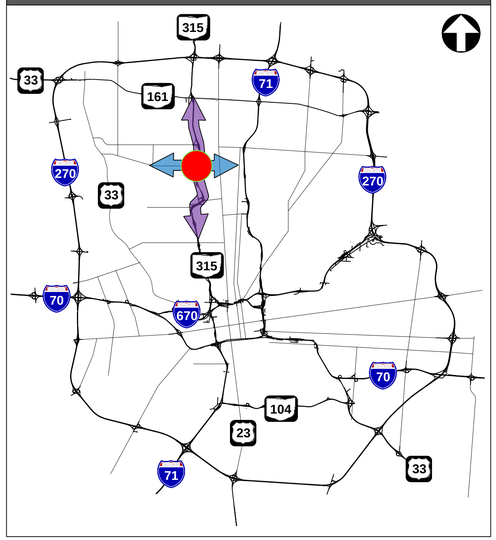
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

INACTIVE FIBERS, PATCHING, AND PATCH PANEL CONNECTIONS ARE NOT SHOWN ON THIS SHEET FOR CLARITY

[2] DISCONNECT EXISTING PATCH CABLES AND REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

COMMUNICATION NODE 315007.8

REFER TO SHEET 664 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

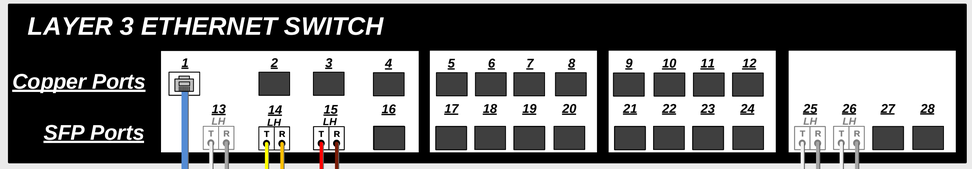
EXISTING COMMUNICATION NODE# 315007.8: SR-315 AT HENDERSON RD.

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

988
1000

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO: CONTROL EQUIPMENT MONITOR

13 14 15 25 26

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

ETHERNET SWITCH PORT DESTINATION

PORT 13: EXISTING CONNECTION TO INT# SIG4815: TAYLOR RD. AT TAYLOR STATION RD.

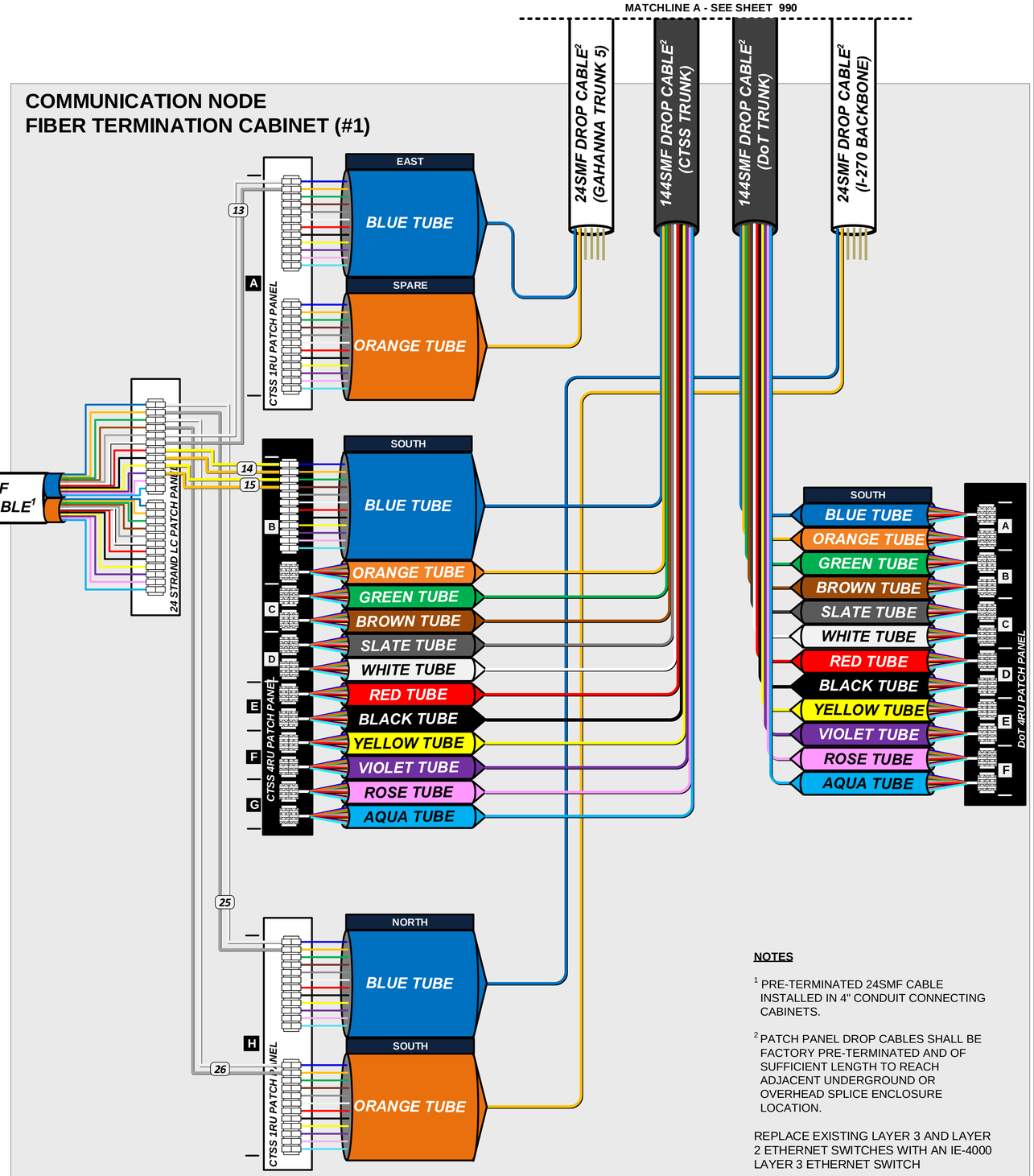
PORT 14: INT# 3111: FIFTH AVE. AT HAMILTON RD.
SEE SHEET 902

PORT 15: INT# 3112: HAMILTON RD. AT SAWYER RD.
SEE SHEET 903

PORT 25: EXISTING CONNECTION TO NODE# 270035.4: IR-270 AT IR-670

PORT 26: EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.
SEE SHEET 991

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 SPLICE ENCLOSURE LOCATION.

REPLACE EXISTING LAYER 3 AND LAYER 2 ETHERNET SWITCHES WITH AN IE-4000 LAYER 3 ETHERNET SWITCH

LEGEND

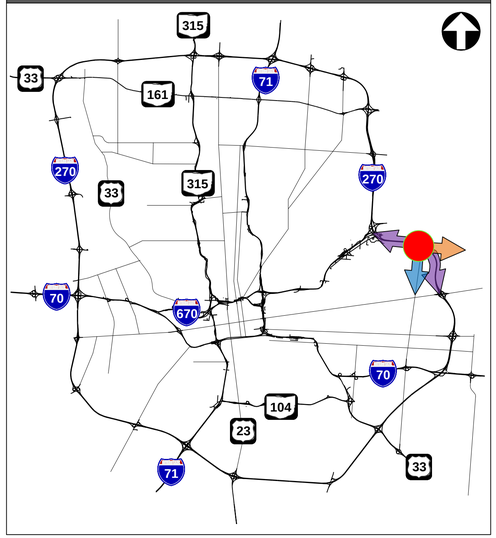
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270037.4

REFER TO SHEET 246 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270037.4: IR-270 AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

989
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EXISTING 32" PULL BOX

EXISTING SPLICE ENCLOSURE

EXISTING 24SMF CABLE (GAHANNA TRUNK 5)

EXISTING GAHANNA TRUNK 5 BLUE BUFFER TUBE

EXISTING 32" PULL BOX

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

6 Cable Entries
144 Proposed Fusion Splices
24 Existing Fusion Splices
15 Coiled Buffer Tubes

1-6
7-12
1-6
7-12
1-6
7-12

144SMF CABLE SOUTH HAMILTON RD TRUNK

TO:
INT# 3112: HAMILTON RD. AT SAWYER RD.
SEE SHEET 903

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF DROP CABLE (GAHANNA TRUNK 5)

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE (DoT TRUNK)

EXISTING 32" PULL BOX

TO:
EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.
SEE SHEET 992

288SMF CABLE NORTH I-270 BACKBONE

288SMF CABLE SOUTH I-270 BACKBONE

24SMF DROP CABLE (I-270 BACKBONE)

24SMF CABLE ODOT

EXISTING SPLICE ENCLOSURE

TO: EXISTING COMMUNICATION NODE# 270035.4: IR-270 AT IR-670

MATCHLINE A - SEE SHEET 989

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

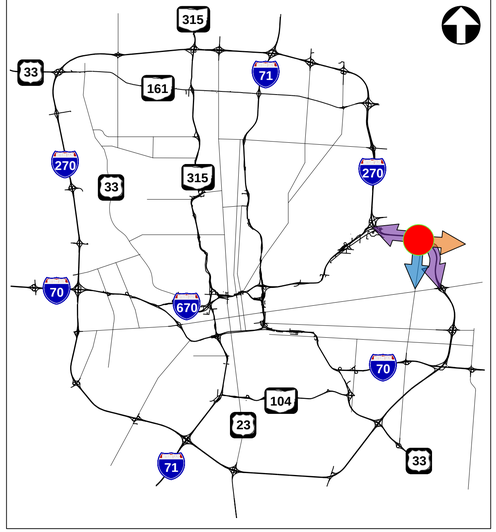
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270037.4: IR-270 AT HAMILTON RD.
FIBER OPTIC SPLICING DIAGRAM

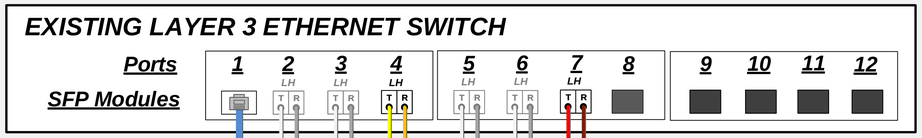
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

COMMUNICATION NODE 270037.4

REFER TO SHEET 246 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH



TO: CONTROL EQUIPMENT MONITOR

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION TO INT# 3080: E BROAD ST. AT TAYLOR STATION RD.

PORT 3: EXISTING CONNECTION TO INT# 3081: E BROAD ST. AT McNAUGHTEN RD.

PORT 4: INT# 3204: CARDINAL PARK DR. AT E BROAD ST.
SEE SHEET 904

PORT 5: PROPOSED COMMUNICATION NODE# 270041.3: IR-270 AT MAIN ST.
SEE SHEET 978

PORT 6: EXISTING COMMUNICATION NODE# 270037.4: IR-270 AT HAMILTON RD.
SEE SHEET 989

PORT 7: INT# 3079: E BROAD ST. AT NOE-BIXBY RD.
SEE SHEET 905

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

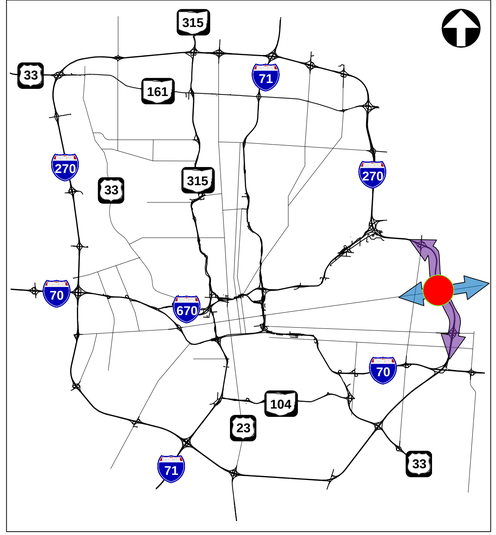
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

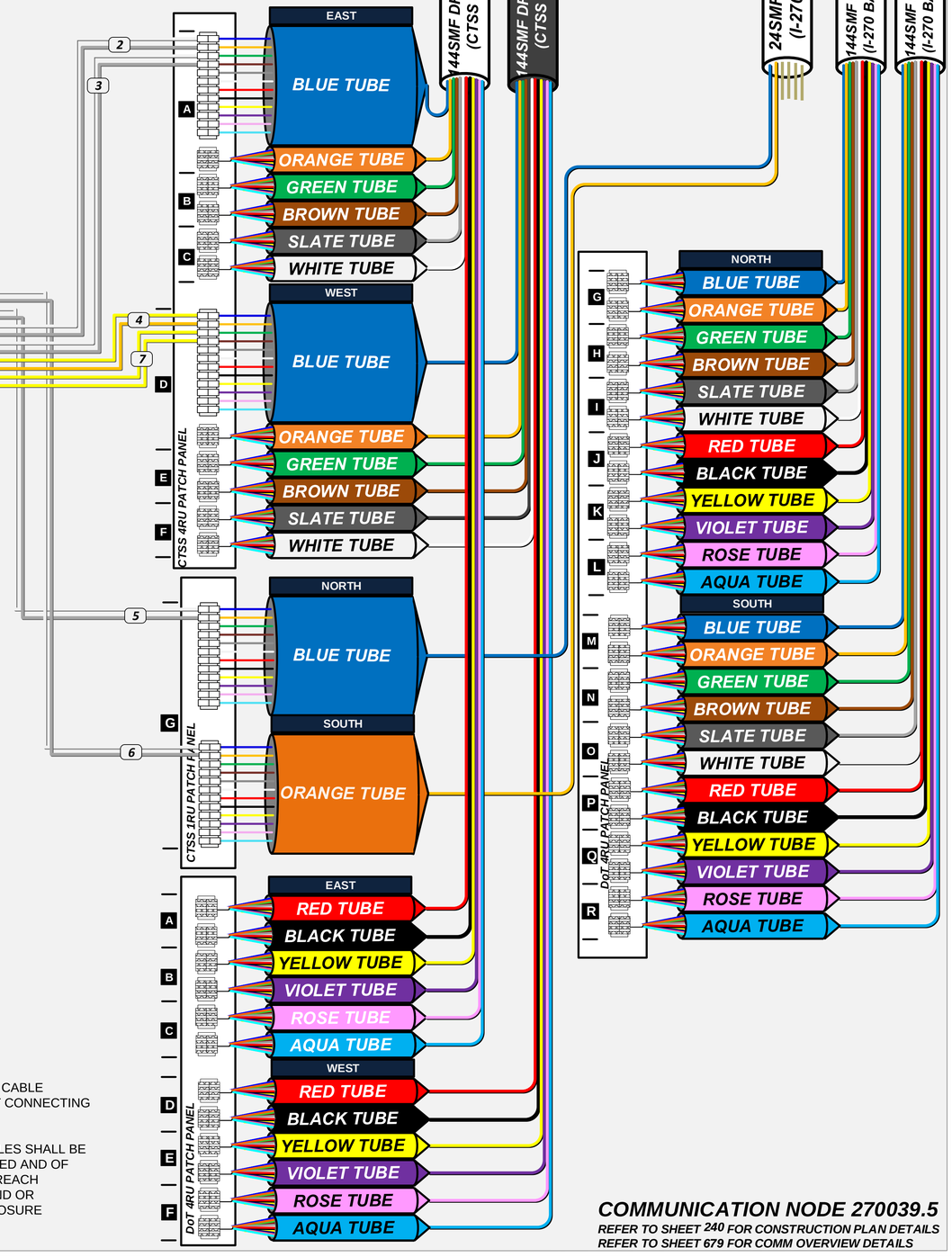
KEY PLAN



24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

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 SPLICE ENCLOSURE LOCATION.

COMMUNICATION NODE 270039.5

REFER TO SHEET 240 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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EXISTING 32" PULL BOX

EXISTING SPLICE ENCLOSURE IN EXISTING 32" PULL BOX

EXISTING 288SMF CABLE NORTH I-270 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 270037.4: IR-270 AT HAMILTON RD.
SEE SHEET 990

*DoT 288 FIBER SPLICING WORK TO BE PERFORMED BY ONGOING DoT PROJECT

24SMF DROP CABLE (I-270 BACKBONE)

144SMF DROP CABLE DOT (I-270 BACKBONE) NORTH *

144SMF DROP CABLE DOT (I-270 BACKBONE) SOUTH *

EXSITNG 288SMF CABLE SOUTH I-270 BACKBONE

EXISTING 12SMF CABLE ODOT

TO:
PROPOSED COMMUNICATION NODE# 270041.3: IR-270 AT MAIN ST.
SEE SHEET 979

MATCHLINE A - SEE THIS SHEET

EXISTING 32" PULL BOX

5 Cable Entries
144 Existing Fusion Splices
144 Proposed Fusion Splices
4 Coiled Buffer Tubes

EIXSITNG 24SMF CABLE (ODOT)

1-6 7-12

144SMF CABLE EAST E BROAD ST TRUNK

TO:
INT# 3080: E BROAD ST. AT TAYLOR STATION RD.

144SMF CABLE WEST E BROAD ST TRUNK

TO:
INT# 3079: E BROAD ST. AT NOE-BIXBY RD.
SEE SHEET 905

EXISTING SPLICE ENCLOSURE

144SMF DROP CABLE EAST (CTSS & DoT TRUNK)

144SMF DROP CABLE WEST (CTSS & DoT TRUNK)

24SMF DROP CABLE (I-270 BACKBONE)

144SMF DROP CABLE DOT (I-270 BACKBONE) NORTH *

144SMF DROP CABLE DOT (I-270 BACKBONE) SOUTH *

MATCHLINE A - SEE THIS SHEET

MATCHLINE B - SEE SHEET 991

LEGEND

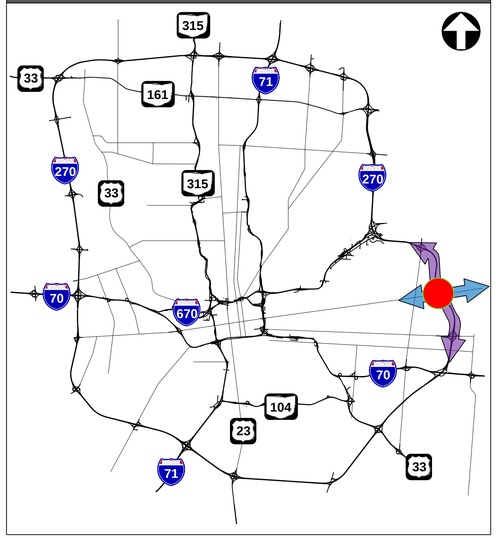
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270039.5
REFER TO SHEET 240 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 679 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

TRAFFIC MANAGEMENT CENTER NETWORK/SERVER ROOM

EXISTING LAYER 3 ETHERNET SWITCH (Z2)

1000BASE-T SFP

G1 G2 G3 G4

ETHERNET SWITCH Z2 PORT DESTINATION

PORT G1: 77 N FRONT ST COMMUNICATION HUB
- VIA METRONET FIBER OPTIC NETWORK (EX. LINK)

PORT G2: EXISTING COMMUNICATION NODE 270025.9: I-71 AT I-270
- VIA ODOT FMS FIBER OPTIC NETWORK (EX. LINK)

PORT G3: EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
SEE SHEET 996

PORT G4: EXISTING CONNECTION TO SIGNAL WORKSHOP

EXISTING GigE CONNECTION BETWEEN SWITCH Z2 & SWITCH Z3

EXISTING LAYER 3 ETHERNET SWITCH (Z3)

1000BASE-T SFP

H1 H2 H3 H4

ETHERNET SWITCH Z4 PORT DESTINATION

PORT 13: INT# 3145: JOYCE AVE. AT MAYNARD AVE.
SEE SHEET 846

PORT 14: INT# 3135: HUDSON ST. AT JOYCE AVE.
SEE SHEET 845

PORT 15: COC_TMWS: 1820 SEVENTEENTH AVE.
SEE SHEET 984

PROPOSED LAYER 3 ETHERNET SWITCH (Z4)

Copper Ports

SFP Ports

EXISTING METRONET SWITCH

EX. 72 TERMINATION LC PATCH PANEL

EXISTING 72 STRAND CABLE CONNECTS ROOMS

1881 E 25TH AVE TRAINING FACILITY COMMUNICATIONS ROOM

MATCHLINE A - SEE SHEET 994

EXISTING METRONET FIBER TO 77 N FRONT ST 5

EXISTING COMMUNICATIONS NODE 270025.9

EXISTING METRONET SWITCH

EX. 72 TERMINATION LC PATCH PANEL

144SMF DROP CABLE (WEST)

144SMF DROP CABLE 2 NORTH

CTSS ARU PATCH PANEL

CTSS 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

CTSS WEST
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

DoT NORTH
- RED TUBE
- BLACK TUBE
- YELLOW TUBE

DoT SOUTH
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

EX. 144 TERMINATION LC PATCH PANEL

SIGNAL WORKSHOP

LEGEND

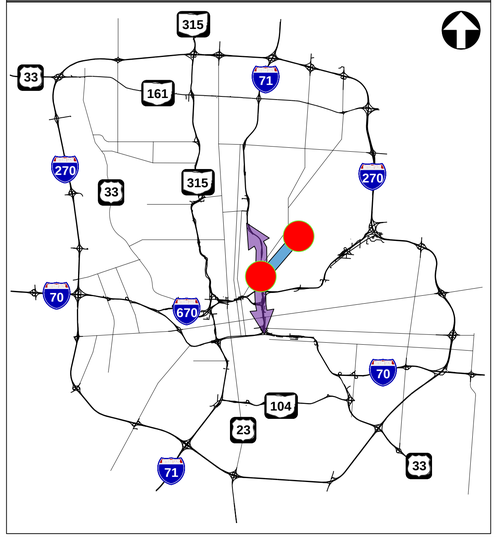
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

TMC COMMUNICATIONS PATH *1881 E 25TH AVE.*

REFER TO SHEET 495 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 676 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

TMC COMMUNICATIONS: E TWENTY-FIFTH AVE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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TO:
INT# 3145: JOYCE AVE. AT MAYNARD AVE.
SEE SHEET 846

144SMF CABLE NORTH JOYCE AVE

PROPOSED 48" PULL BOX

4 Cable Entries
288 Fusion Splices

TO:
INT# 3126: JOYCE AVE. AT SEVENTEENTH AVE.
SEE SHEET 859

144SMF CABLE TMC BACKBONE

144SMF CABLE

144SMF DROP CABLE NORTH

MATCHLINE A - SEE SHEET 993

LEGEND

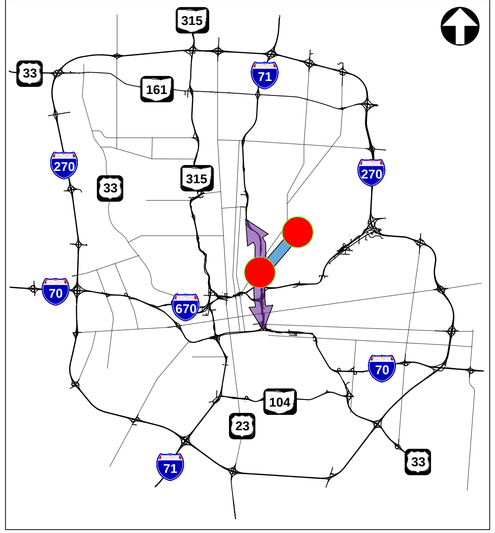
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX LH/ZX* GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



***TMC COMMUNICATIONS PATH** 1881 E 25TH AVE.*
REFER TO SHEET 495 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 676 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

TMC COMMUNICATIONS: E TWENTY-FIFTH AVE
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

EXISTING COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH - I

Ports

SFP Modules

1 2 LH 3 LH 4 LH 5 LH 6 LH 7 LH 8 LH 9 LH 10 LH 11 12

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

13 14

LAYER 3 ETHERNET SWITCH - II PORT DESTINATION

PORT 13: INT# 3053: E LONG ST. AT SEVENTEENTH ST.
SEE SHEET 863

PORT 14: INT# 3056: E LONG ST. AT N CHAMPION AVE. / GOVERNORS PL.
SEE SHEET 864

Copper Ports

SFP Ports

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

LAYER 3 ETHERNET SWITCH -II

LAYER 3 ETHERNET SWITCH - I PORT DESTINATION

PORT 2: EXISTING CONNECTION TO COMMUNICATION HUB: 77 N. FRONT ST. (LAYER 2 TRUNK LINK)

PORT 3: EXISTING COMMUNICATION NODE# 315001.3: SR-315 AT US-33/DUBLIN RD.

PORT 4: (Revised) **PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71**
SEE SHEET 964

PORT 5: EXISTING COMMUNICATION COMMUNICATIONS NODE# 670006.5: I-670 AT LEONARD AVE.

PORT 6: (Revised) **PROPOSED COMMUNICATION NODE# 070102.3: IR-70 AT KELTON AVE.**
SEE SHEET 962

PORT 7: EXISTING CONNECTION TO INT# 0116: LESTER DR. AT SPRING ST.

PORT 8: EXISTING CONNECTION TO COMMUNICATION HUB:77 N. FRONT ST. (LAYER 3 LINK)

PORT 9: EXISTING CONNECTION TO INT# 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.

PORT 10: EXISTING CONNECTION TO INT# 0042: BROAD ST. AT FOURTH ST.

24 STRAND LC PATCH PANEL

5 6 7 8 13 14 2 4 3 9 10

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

TO:
PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
SEE SHEET 964

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

EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

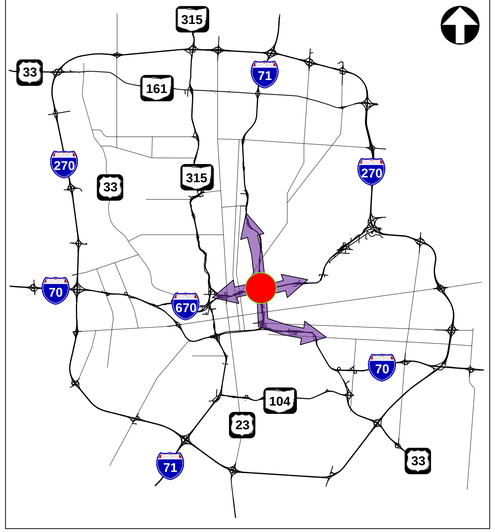
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 071109.0
REFER TO SHEET 677 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670.

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

995
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EXISTING COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH*

Ports: 1 | 2 LH | 3 LH | 4 LH | 5 LH | 6 LH | 7 LH | 8 LH | 9 | 10 | 11 | 12

SFP Modules: T R

TO: CONTROL EQUIPMENT MONITOR

EXISTING CCTV CABINET

EXISTING CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

EXISTING COMPOSITE CCTV CABLE

EXISTING CCTV

MATCHLINE B - SEE SHEET 997

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] NORTH (I-71 BACKBONE) CTSS

144SMF DROP CABLE[2] SOUTH (I-71 BACKBONE) CTSS

144SMF DROP CABLE[2] NORTH (I-71 BACKBONE) DoT

144SMF DROP CABLE[2] SOUTH (I-71 BACKBONE) DoT

SEE NOTE 4

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

CTSS 4RU PATCH PANEL

DoT 4RU PATCH PANEL

NORTH-EAST
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

NORTH-WEST
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

EXISTING 144SMF DROP CABLE NORTH (CTSS TRUNK)

NORTH

BLUE TUBE

NODE# 071116.2

IR-71 AT MORSE RD.

EXISTING 144SMF DROP CABLE SOUTH (CTSS TRUNK)

SOUTH

BLUE TUBE

NODE# 071110.9

IR-71 AT ELEVENTH AVE.

ETHERNET SWITCH PORT DESTINATION

PORT 2: INT# 3146: E NORTH BROADWAY AT REIS AVE.
SEE SHEET 827

PORT 3: INT# 3063: E NORTH BROADWAY AT SILVER DR.
SEE SHEET 795

PORT 4: INT# 3142: MCGUFFEY RD. AT WEBER RD.
SEE SHEET 841

PORT 5: EXISTING COMMUNICATION NODE# 071116.2: IR-71 AT MORSE RD.

PORT 6: TMC COMMUNICATIONS: E TWENTY-FIFTH AVE
SEE SHEET 993

PORT 7: INT# 3132: HUDSON ST. AT MCGUFFEY RD.
SEE SHEET 842

PORT 8: PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
SEE SHEET 964

LEGEND

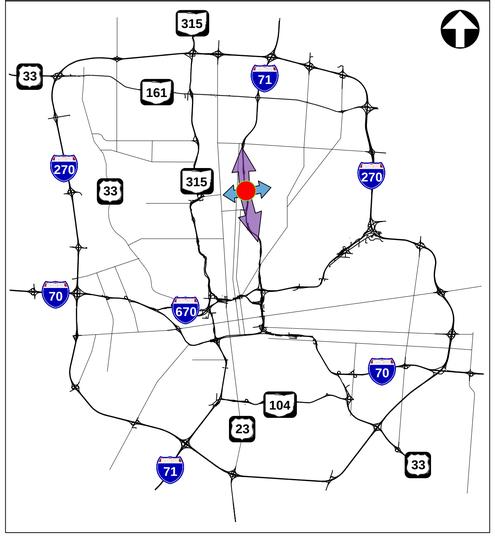
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



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 SPLICE ENCLOSURE LOCATION.

[3]DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR PATCHES ON PLAN ABOVE.

[4]DURING A PREVIOUS PROJECT, 2-144 FIBER DROP CABLES OF I-71 BACKBONE WHICH ARE TERMINATED IN THE "CTSS" PANEL OF THE NODE CABINET AND 2-144 FIBER DROP CABLES OF I-71 BACBONE WHICH ARE TERMINATED IN THE "DoT" PANEL OF THE NODE CABINET ARE NOT SHOWN ON THIS SHEET FOR CLARITY.

*FOR EXISTING CONFIGURATION OF LAYER 3 ETHERNET SWITCH REFER TO SHEET **998**

EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

COMMUNICATION NODE 071113.4

REFER TO SHEET 646 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

996
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CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

TO:
INT# 3064: E NORTH BROADWAY AT I-71 NB RAMPS
SEE SHEET 796

TO:
INT# 3064: E NORTH BROADWAY AT I-71 NB RAMPS
SEE SHEET 796

TO:
EXISTING COMMUNICATION NODE# 071116.2: IR-71 AT MORSE RD.

24SMF CABLE ODOT (Future)

144SMF CABLE NORTH-WEST NORTH BROADWAY TRUNK

144SMF CABLE NORTH-EAST NORTH BROADWAY TRUNK

12SMF CABLE (ODOT)

288SMF CABLE NORTH I-71 BACKBONE

EXISTING 32" PULL BOX

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

7 Cable Entries
576 Fusion Splices
2 Coiled Buffer Tubes

1-6
7-12

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE NORTH (I-71 BACKBONE) CTSS

144SMF DROP CABLE SOUTH (I-71 BACKBONE) CTSS

144SMF DROP CABLE NORTH (I-71 BACKBONE) DoT

144SMF DROP CABLE SOUTH (I-71 BACKBONE) DoT

SEE NOTE 1

288SMF CABLE SOUTH I-71 BACKBONE

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

EXISTING SPLICE ENCLOSURE

NOTES
1. DURING A PREVIOUS PROJECT, FIBERS 1-144 OF THE 288 FIBER BACKBONE CABLES WERE SPLICED TO 2-144 FIBER DROP CABLES WHICH ARE TERMINATED IN THE "CTSS" PANEL OF THE NODE CABINET, REPLACING THE 24 FIBER DROP AND TERMINATION PANEL INSTALLED BY THE CTSS PHASE A PROJECT.

ADDITIONALLY, FIBERS 145-288 OF THE 288 FIBER BACKBONE CABLES WERE SPLICED TO 2-144 FIBER DROP CABLES WHICH ARE TERMINATED IN THE "DoT" PANEL OF THE NODE CABINET.

MATCHLINE B - SEE SHEET 996

TO:
PROPOSED COMMUNICATION NODE# 071110.9: ELEVENTH AVE. AT IR-71
SEE SHEET 966

LEGEND

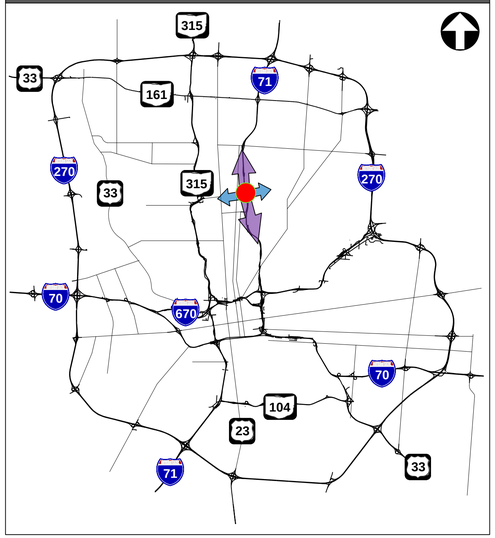
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX* GBIC OPTICAL TRANSCEIVER — LH - SHORT HAUL, ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 071113.4

REFER TO SHEET 646 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

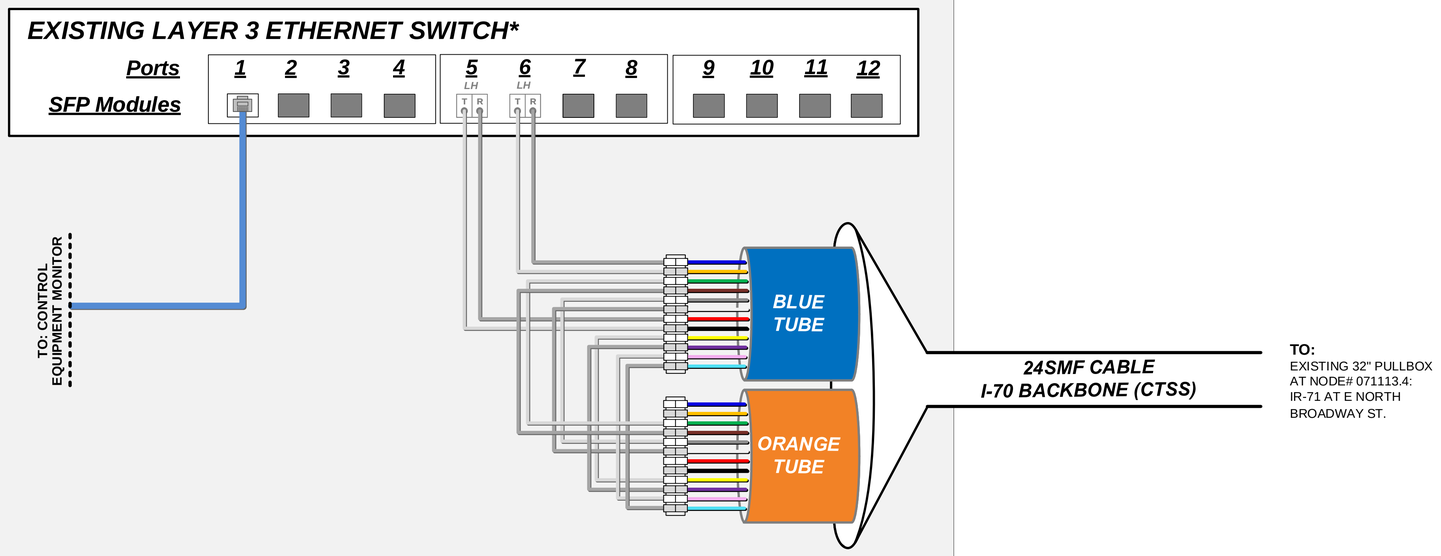
CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE 270025.9: IR-71 AT IR-270

PORT 6: EXISTING COMMUNICATION NODE 071109.0: IR-71 AT IR-670

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

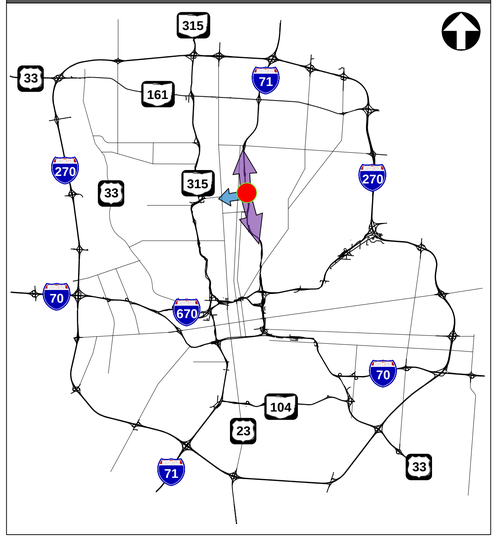
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

*FOR PROPOSED CONFIGURATION OF LAYER 3 ETHERNET SWITCH REFER TO SHEET **996**

COMMUNICATION NODE 071113.4

REFER TO SHEET 646 FOR CONSTRUCTION PLAN DETAILS

REFER TO SHEET 672 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
FIBER OPTIC SPLICING DIAGRAM

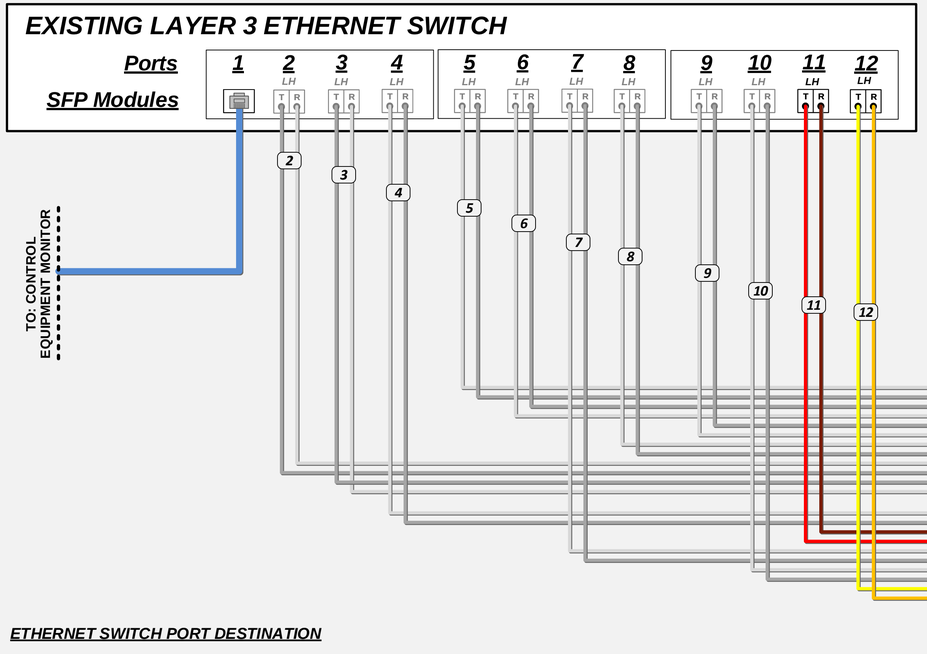
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

998
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COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH



ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION TO INT# N007: MORSE RD. AT SINCLAIR RD./I-71 SB RAMPS
SEE SHEET 736

PORT 3: EXISTING CONNECTION TO INT# N006: I-71 SB RAMPS AT SINCLAIR RD.

PORT 4: INT# N005: INDIANOLA AVE. AT MORSE RD.
SEE SHEET 735

PORT 5: EXISTING CONNECTION TO EXISTING COMMUNICATION NODE# 270025.9: I-71 AT I-270

PORT 6: EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT E NORTH BROADWAY.
SEE SHEET 996

PORT 7: EXISTING CONNECTION TO INT# 3159: CLEVELAND AVE. AT FERRIS RD.

PORT 8: EXISTING CONNECTION TO INT# N019: LINCOLN AVE. AT SINCLAIR RD.

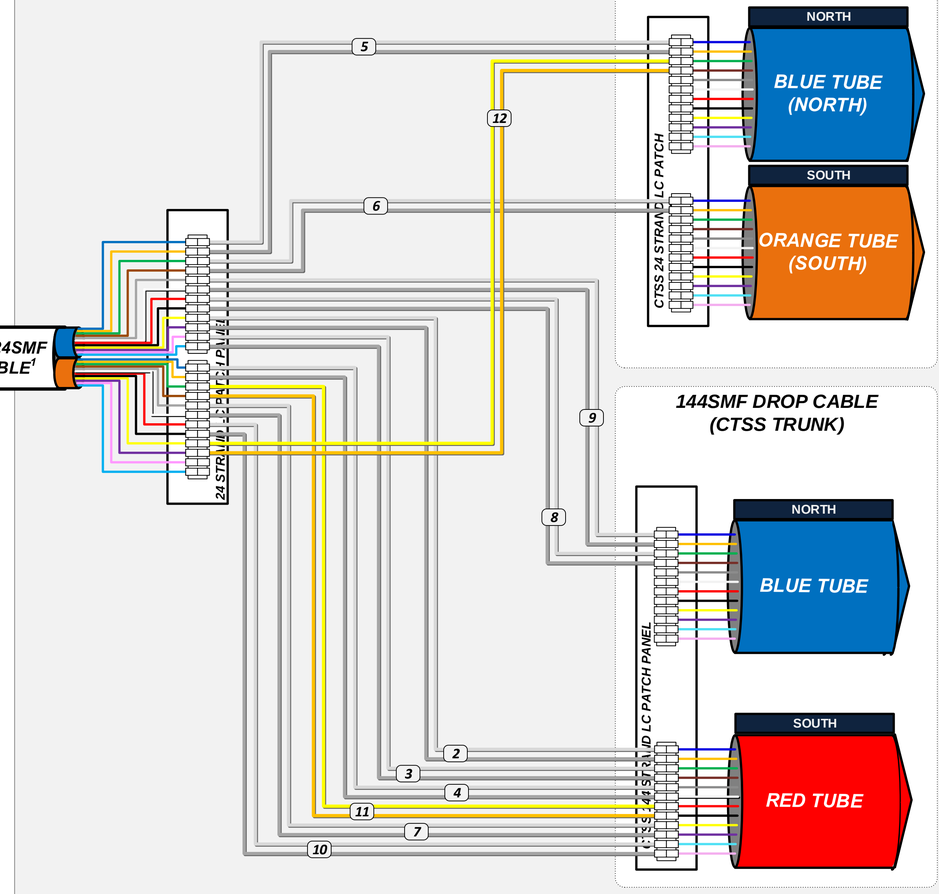
PORT 9: EXISTING CONNECTION TO INT# N018: FREEWAY DR. NORTH AT SINCLAIR RD.

PORT 10: EXISTING CONNECTION TO INT# N062: CLEVELAND AVE. AT HUNTINGTON BANK DR.

PORT 11: **INT# 4045: N HIGH ST. AT WEISHEIMER RD.**
SEE SHEET 733

PORT 12: **EXISTING COMMUNICATION NODE# 315007.8: SR-315 AT HENDERSON RD.**
SEE SHEET 988

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

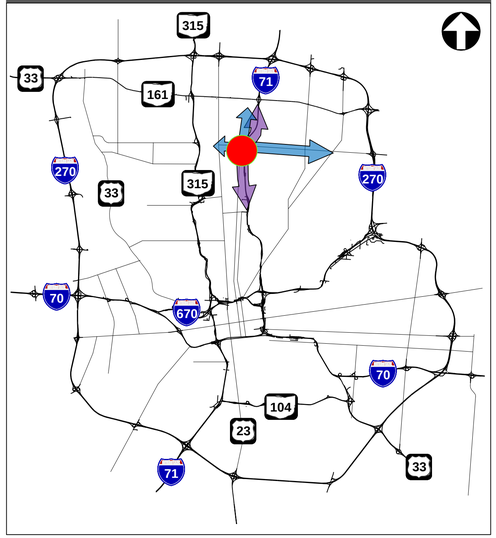
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



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.

INACTIVE FIBERS, PATCHING, AND PATCH PANEL CONNECTIONS ARE NOT SHOWN ON THIS SHEET FOR CLARITY

COMMUNICATION NODE 071116.2
REFER TO SHEET 677 FOR COMM OVERVIEW DETAILS

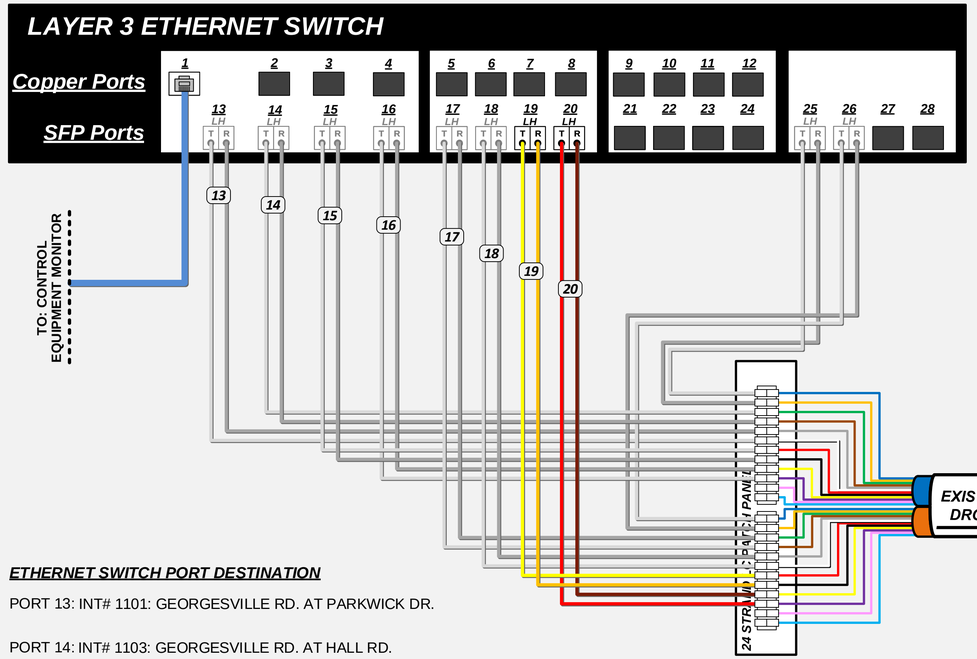
CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 071116.2: I-71 AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 13: INT# 1101: GEORGESVILLE RD. AT PARKWICK DR.

PORT 14: INT# 1103: GEORGESVILLE RD. AT HALL RD.

PORT 15: INT# 1100: GEORGESVILLE RD. AT I-270 EB RAMPS

PORT 16: INT# 1099: GEORGESVILLE RD. AT I-270 NB RAMPS
SEE SHEET 952

PORT 17: INT# 1110: SULLIVANT AVE. AT WEDGEWOOD DR.

PORT 18: INT# 1032: HOLLY HILL DR. AT SULLIVANT AVE.

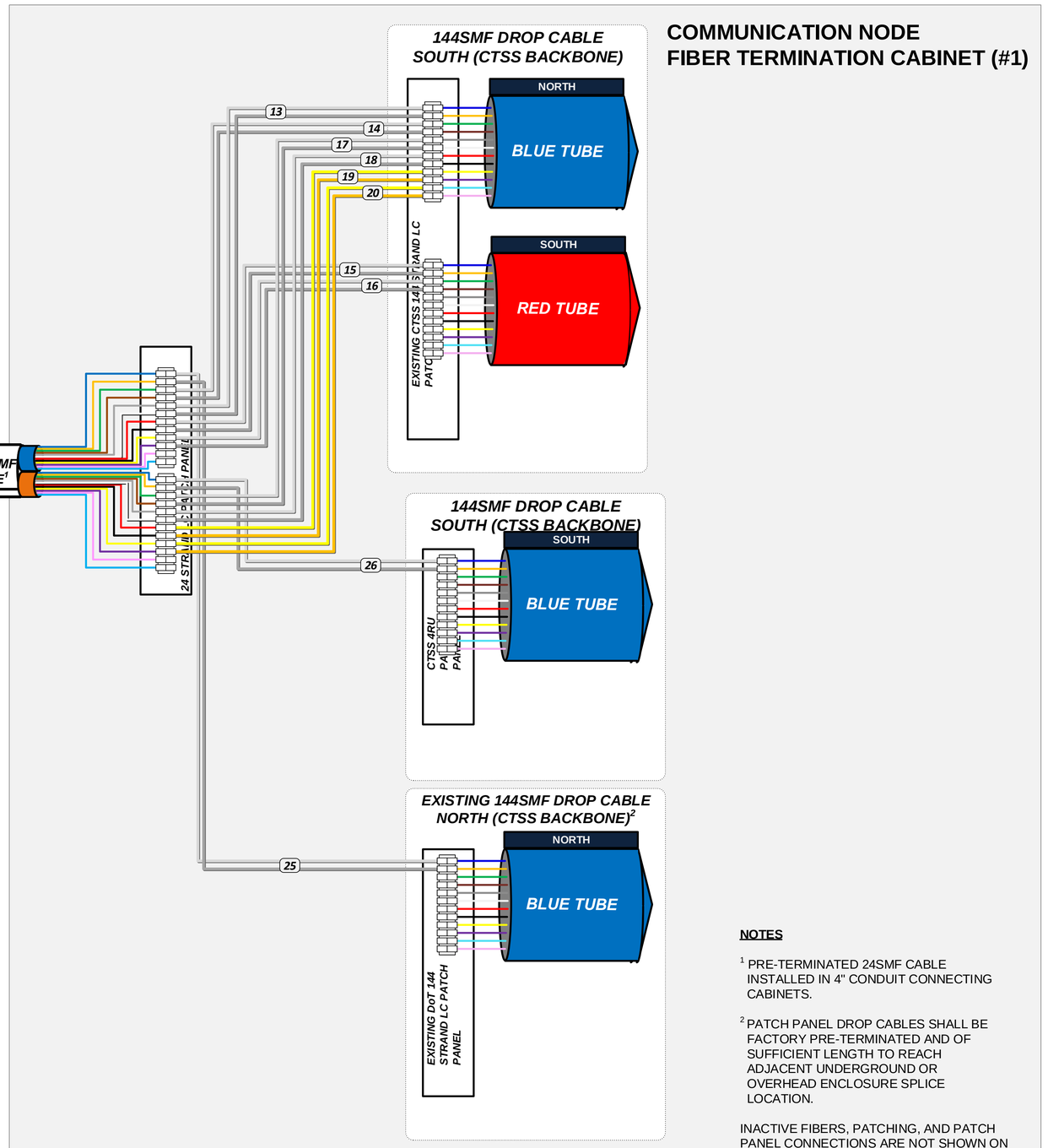
PORT 19: INT# 1097: MURRAY HILL RD. AT SULLIVANT AVE.
SEE SHEET 947

PORT 20: INT# 1033: INDUSTRIAL MILE AVE. AT SULLIVANT AVE.
SEE SHEET 948

PORT 25: EXISTING COMMUNICATION NODE# 270008.7:
IR-270 AT IR-70

PORT 26: EXISTING COMMUNICATION NODE# 270002.1:
IR-270 AT HARRISBURG PIKE.
SEE SHEET 975

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.

INACTIVE FIBERS, PATCHING, AND PATCH PANEL CONNECTIONS ARE NOT SHOWN ON THIS SHEET FOR CLARITY

REMOVE AND REPLACE EXISTING LAYER 3 AND LAYER 2 ETHERNET SWITCHES WITH AN IE-4000 LAYER 3 ETHERNET SWITCH

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- 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

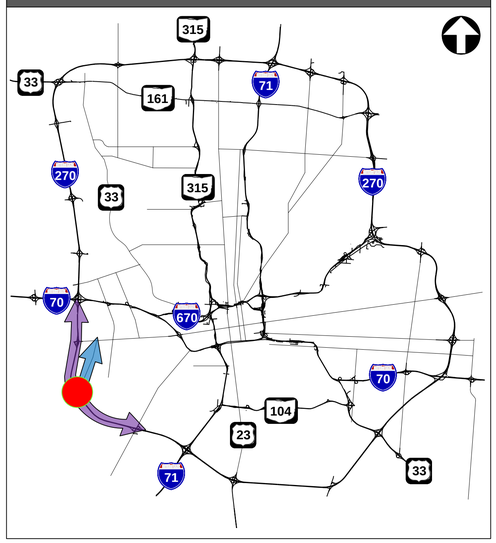
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

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

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270004.5

REFER TO SHEET 683 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100006
PID NUMBER: 82573

EXISTING COMMUNICATION NODE# 270004.5: GEORGESVILLE RD. AT IR-270
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE D – CONSTRUCTION AS-BUILT

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