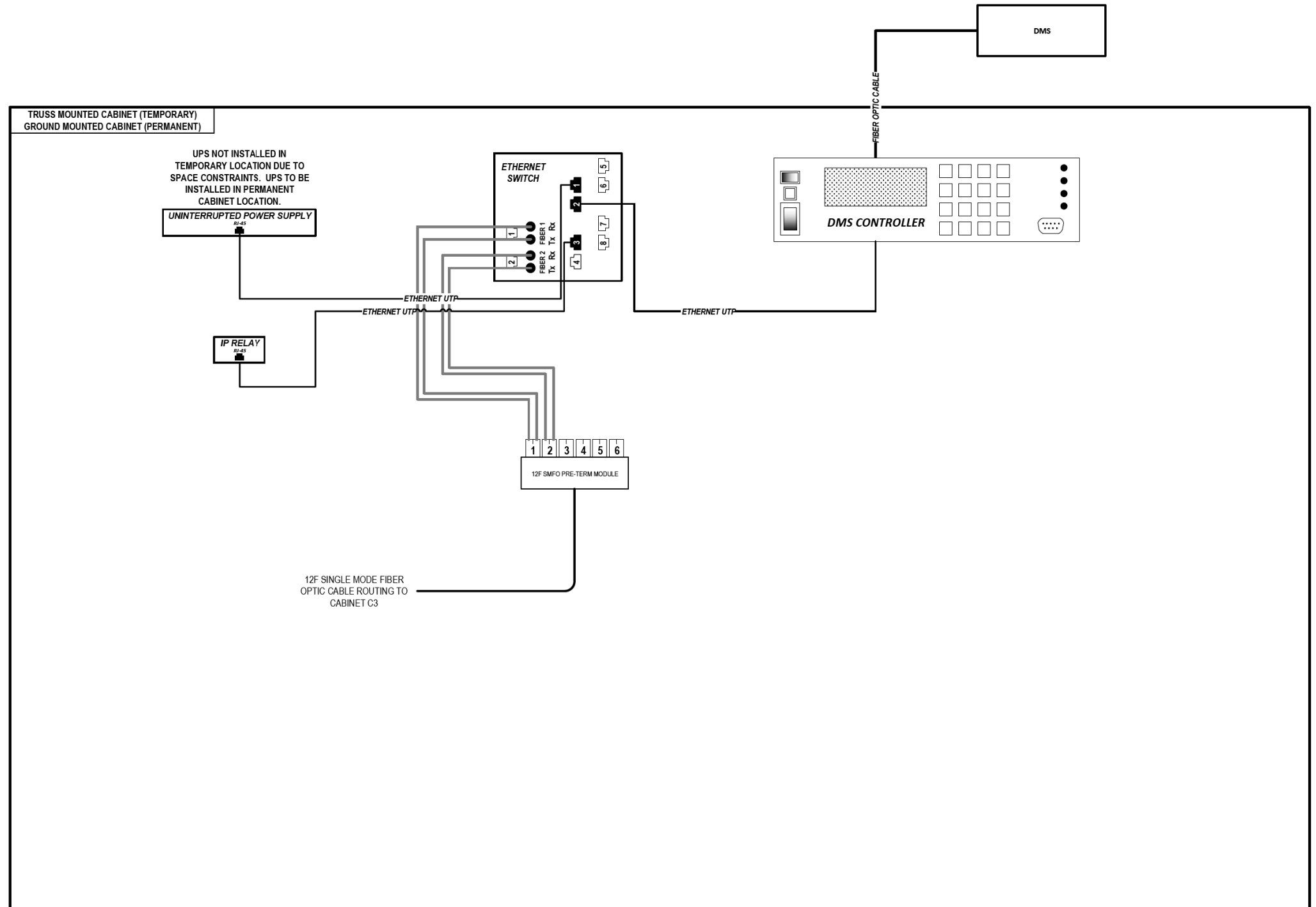


FILE PATH = p:\naecom\na-ansi\ecommon\line\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-58



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A77**  
 INSTALL TEMPORARY/PERMANENT DMS CABINET, CABINET EQUIPMENT AND RELATED CABLING. RELOCATE EXISTING DMS CONTROLLER AND RELATED TO NEW CABINET. REROUTE EXISTING 12 SMF LATERAL FROM CABINET C3 AND TERMINATE.

## DYNAMIC MESSAGE SIGN DMS-10 (NORTH OF TAYLOR STREET)

ITS-58



D160Y00-shr-ITS-58  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

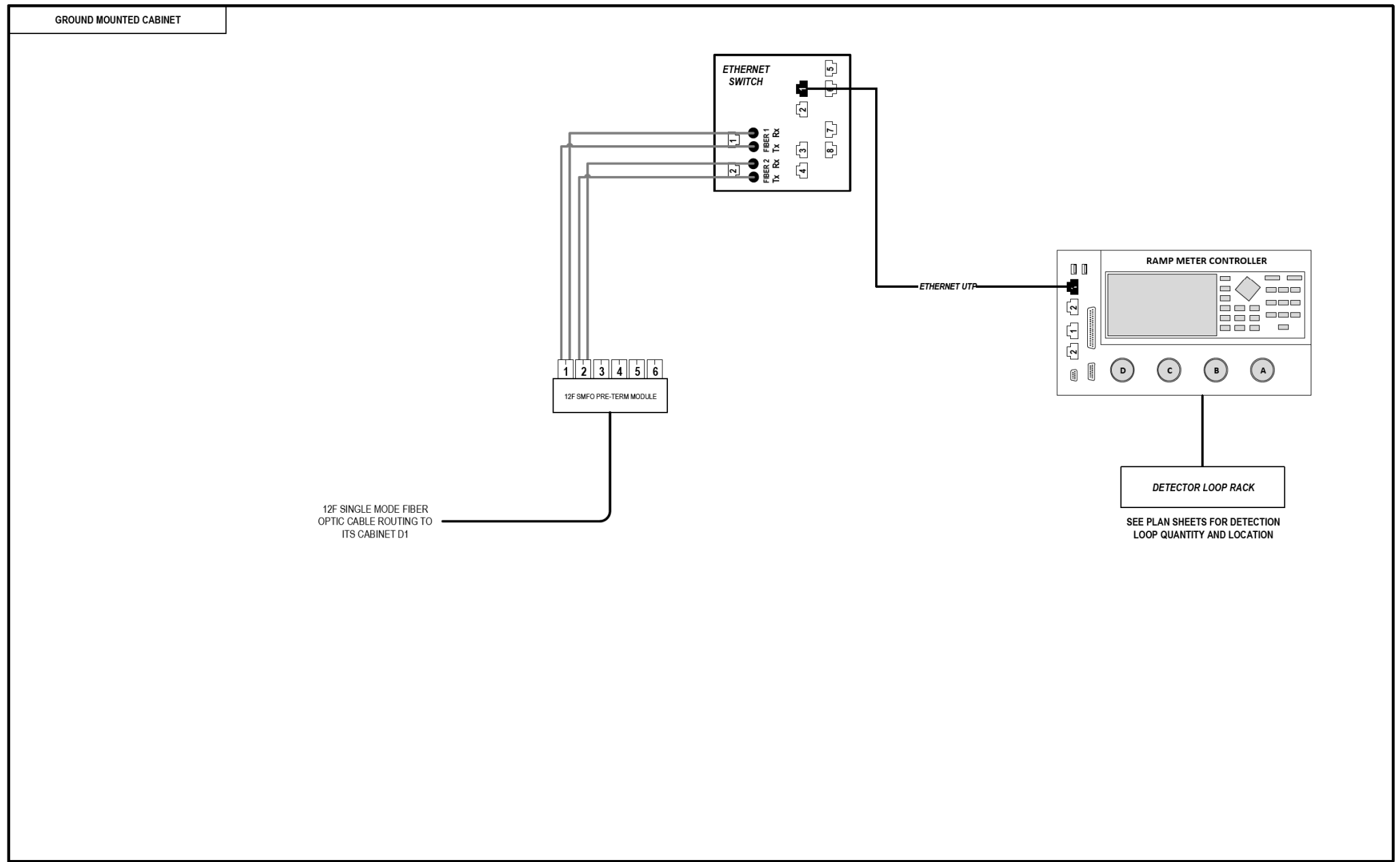
DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
 DYNAMIC MESSAGE SIGN DMS-10 (NORTH OF TAYLOR STREET)  
 SCALE: N.T.S SHEET 58 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	201
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\aecom\na-ansi\ecommon\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-ht-ITS-59



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A76**  
 INSTALL ITS CABINET, CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET D1 AND TERMINATE.

## ITS CABINET D4 (POLK STREET)

ITS-59



D160Y00-ht-ITS-59	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

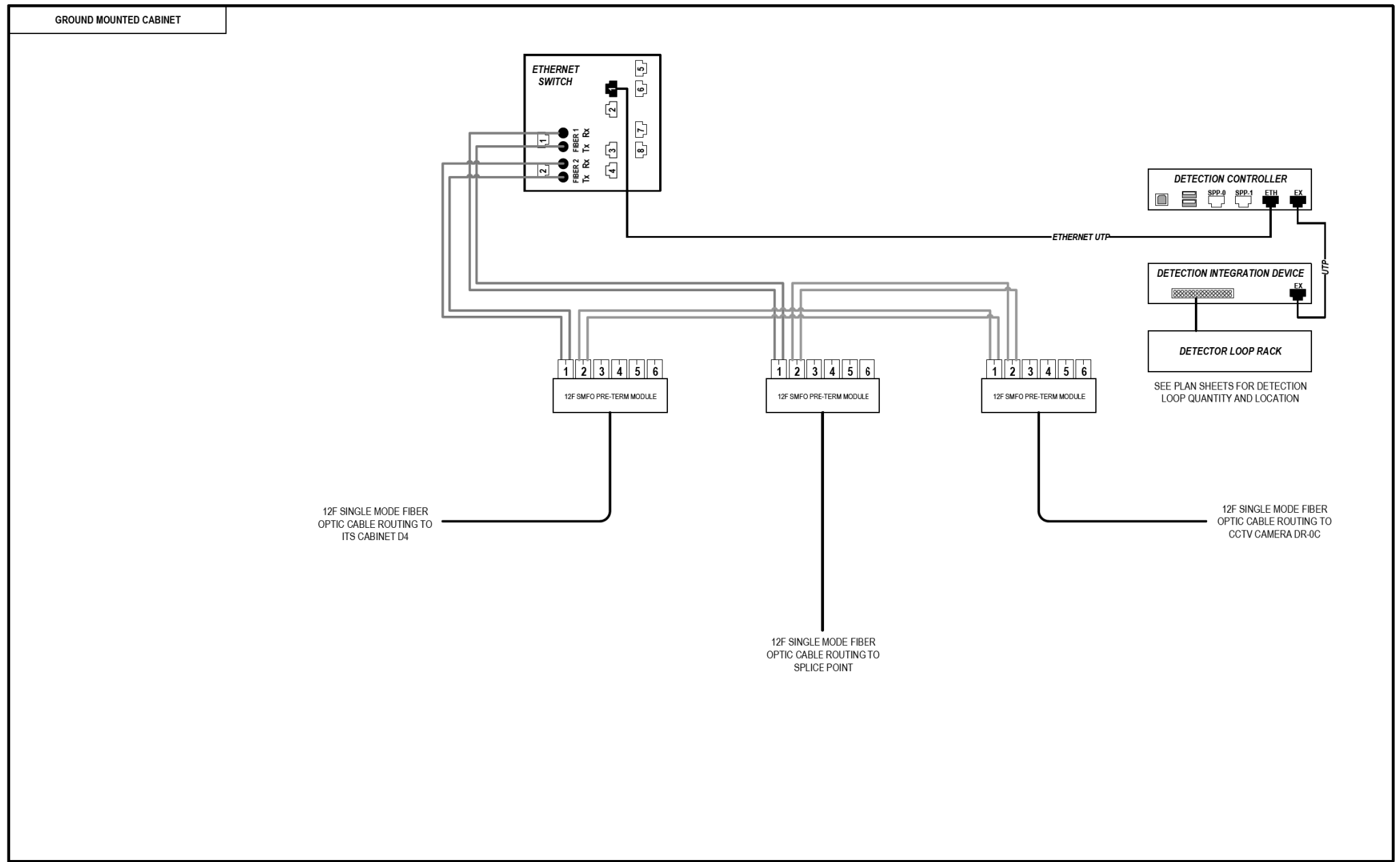
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET D4 (POLK STREET)

SCALE: N.T.S SHEET 59 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	202
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\naecom\na-ansi\ecommon\line\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-ht-ITS-60



**LEGEND**

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 62A76**  
 INSTALL ITS CABINET, CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE IN MEDIAN JUNCTION BOX BY OTHERS IN CONTRACT 60Y00.

**CONTRACT 60Y00**  
 ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

**ITS CABINET D1 (ACCIDENT INVESTIGATION SITE)**

ITS-60



D160Y00-ht-ITS-60  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

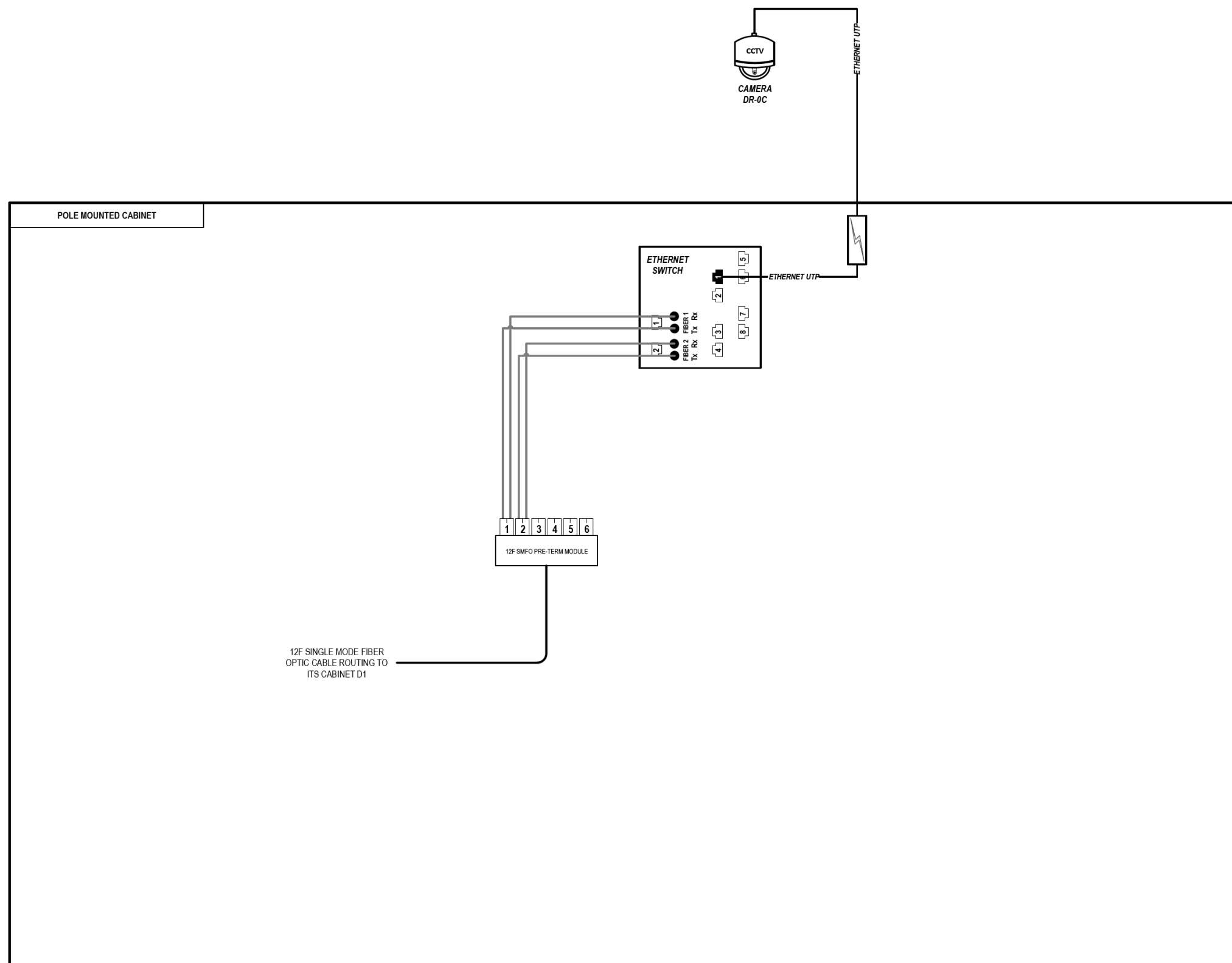
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
 ITS CABINET D1 (ACCIDENT INVESTIGATION SITE)**

SCALE: N.T.S SHEET 60 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	203
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

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### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A76**  
 INSTALL CCTV CAMERA, CCTV CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET D1 AND TERMINATE.

## CCTV CAMERA DR-0C (ACCIDENT INVESTIGATION SITE)

ITS-61



D160Y00-shr-ITS-61  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

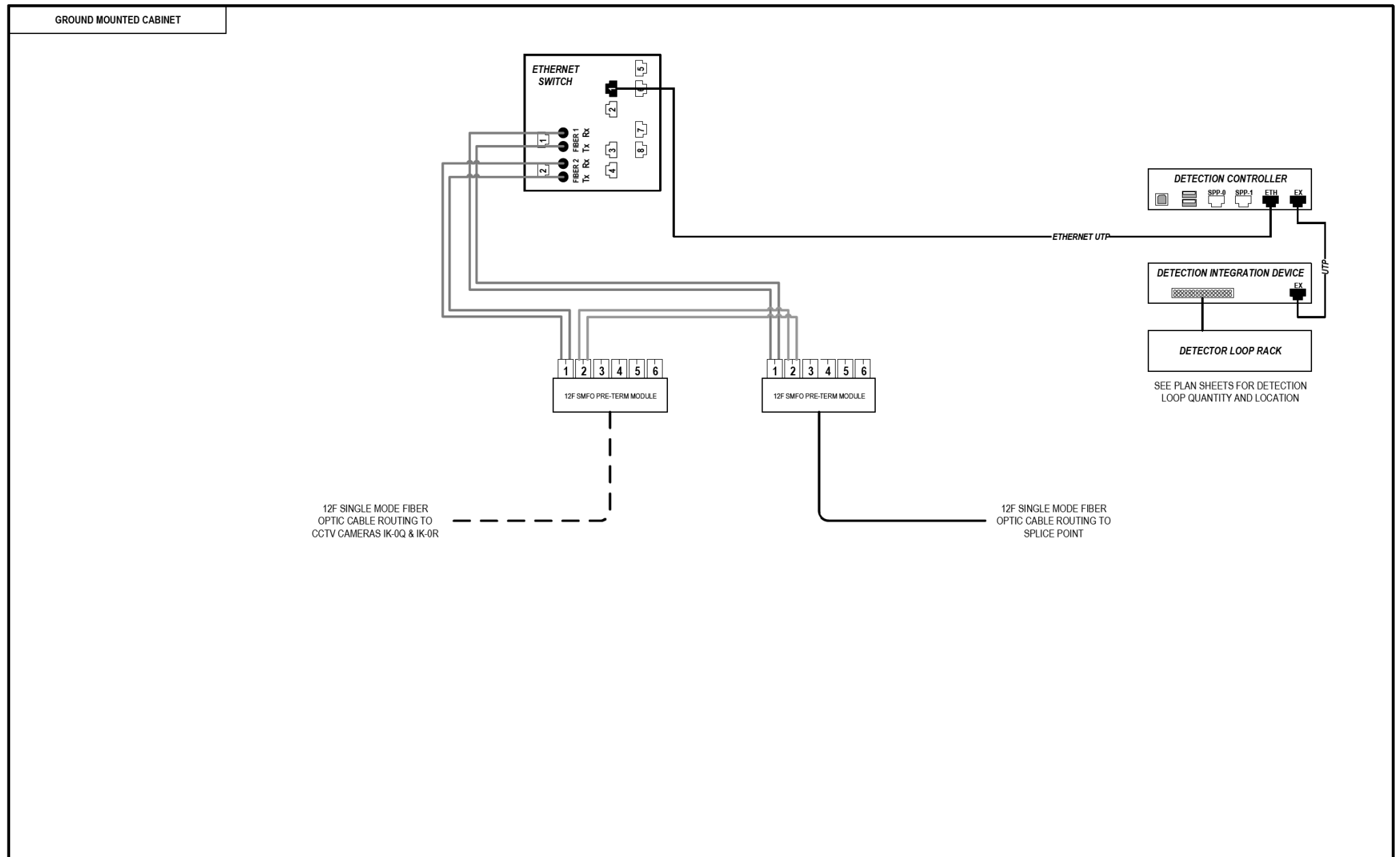
DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERA DR-0C (ACCIDENT INVESTIGATION SITE)  
 SCALE: N.T.S SHEET 61 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	204
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\aecom\na-ans\electrom\local\AECOM\_DS02\_NA\_Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-62



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 62A76**

12 SMF LATERAL FROM CAMERAS IK-OQ & IK-OR EXISTING BY OTHERS. CONTRACT 62A76 TO INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. TERMINATE EXISTING 12 SMF LATERAL FROM CCTV CAMERAS IK-OQ & IK-OR IN CABINET Z2. INSTALL 12 SMF LATERAL TO TRUNKLINE. CABLE TO BE SPLICED TO TRUNKLINE IN MEDIAN JUNCTION BOX BY OTHERS IN CONTRACT 60Y00.

**CONTRACT 60Y00**

ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

**ITS CABINET Z2  
(MEDIAN AT HARRISON STREET)**

ITS-62



D160Y00-shr-ITS-62	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

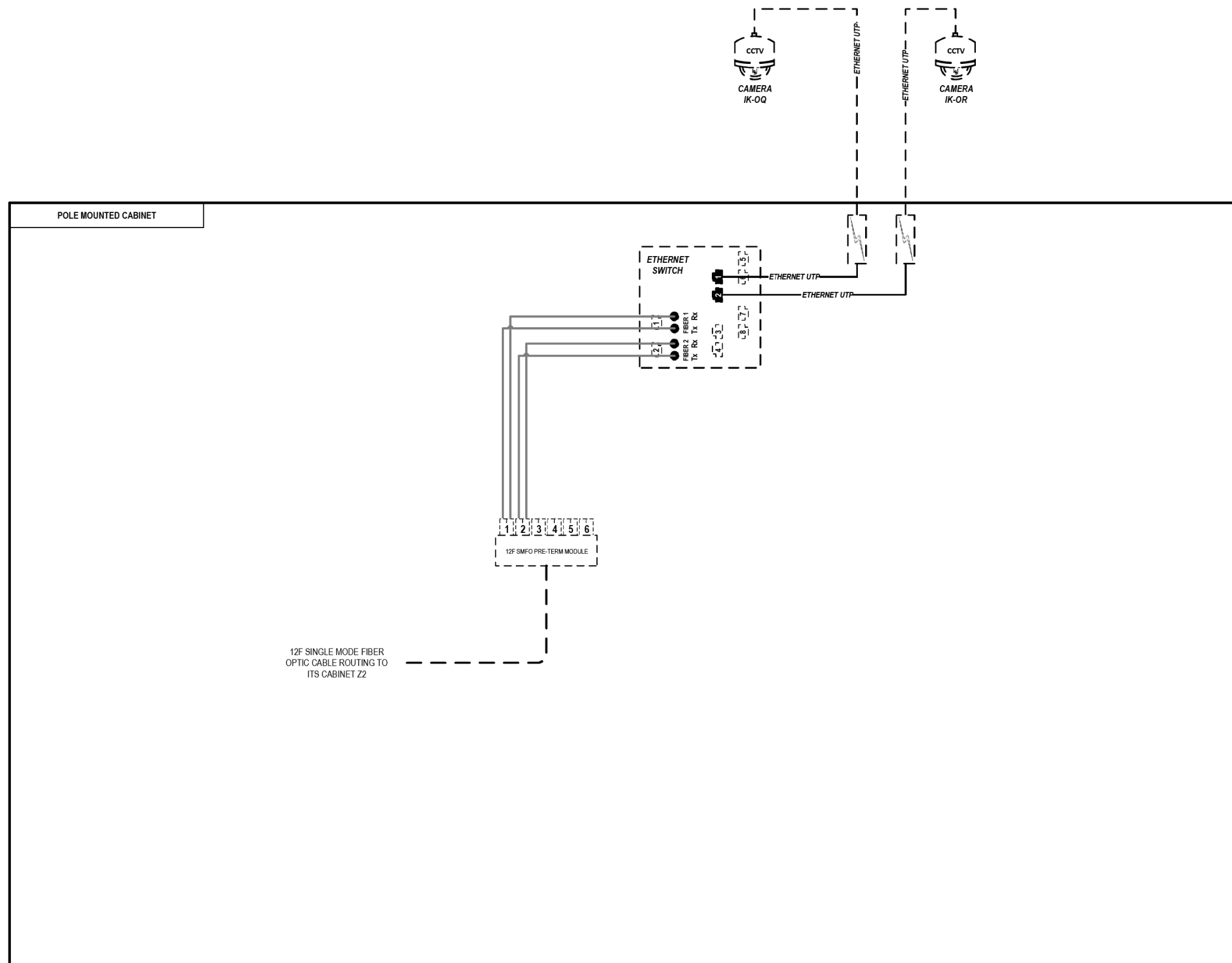
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Z2 (MEDIAN AT HARRISON STREET)**

SCALE: N.T.S SHEET 62 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	205
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

FILE PATH = p:\aecom\ms-ansi\ecommon\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-63



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A76**  
 TERMINATE EXISTING 12 SMF LATERAL FROM CCTV CAMERAS IK-0Q & IK-0R IN CABINET Z2.

## CCTV CAMERAS IK-0Q & IK-0R (SOUTHWEST INTERCHANGE QUADRANT)

ITS-63



D160Y00-shr-ITS-63	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

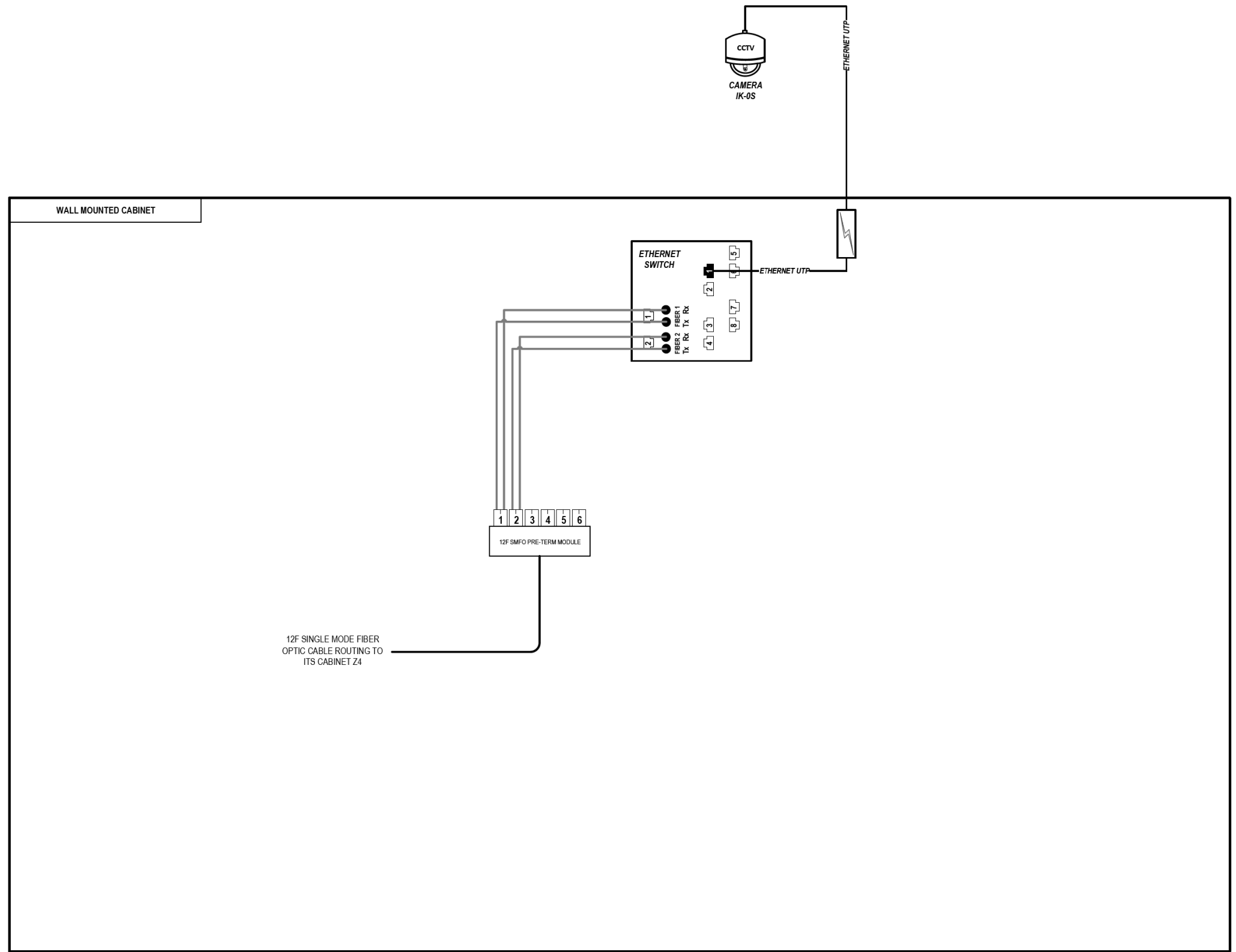
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERAS IK-0Q & IK-0R (SOUTHWEST INTERCHANGE QUADRANT)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	206
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

SCALE: N.T.S SHEET 63 OF 102 SHEETS STA. TO STA.

FILE PATH = p:\aecom\na-ansi\ecommon\local\AECOM\_DS02\_NA\_Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-64



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 60Y00**  
 INSTALL CCTV CAMERA AND RELATED CABLING ON NEW HALSTED (I-290) COMMUNICATIONS HUT.

## CCTV CAMERA IK-0S (COMMUNICATIONS HUT ROOF)

ITS-64



D160Y00-shr-ITS-64	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

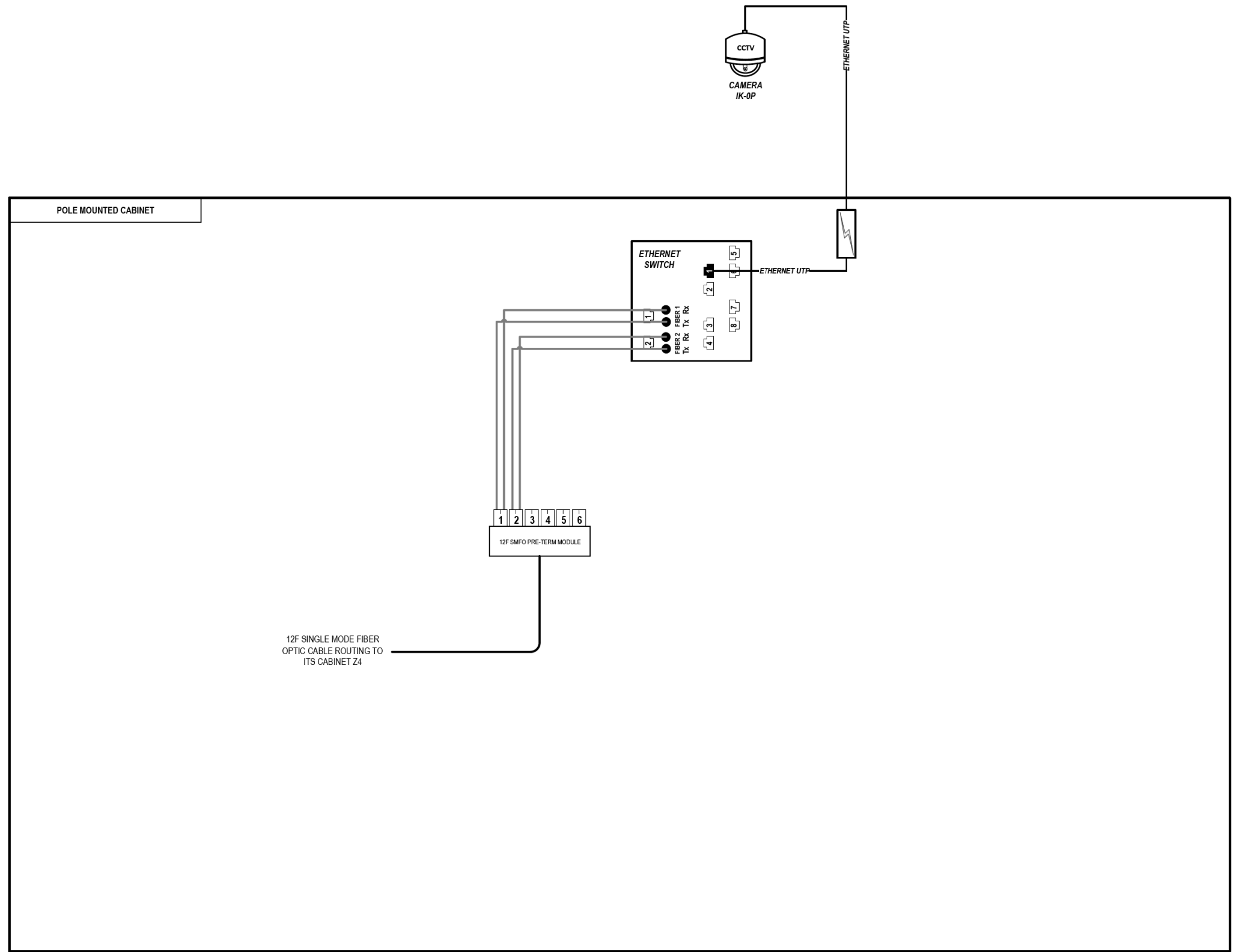
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERA IK-0S (COMMUNICATIONS HUT ROOF)

SCALE: N.T.S. SHEET 64 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	207
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\line\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase II\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-65



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A76**  
 INSTALL CCTV CAMERA, CCTV CABINET, CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET Z4 AND TERMINATE.

## CCTV CAMERA IK-0P (TEMPORARY ACCIDENT INVESTIGATION SITE)

ITS-65



D160Y00-shr-ITS-65  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

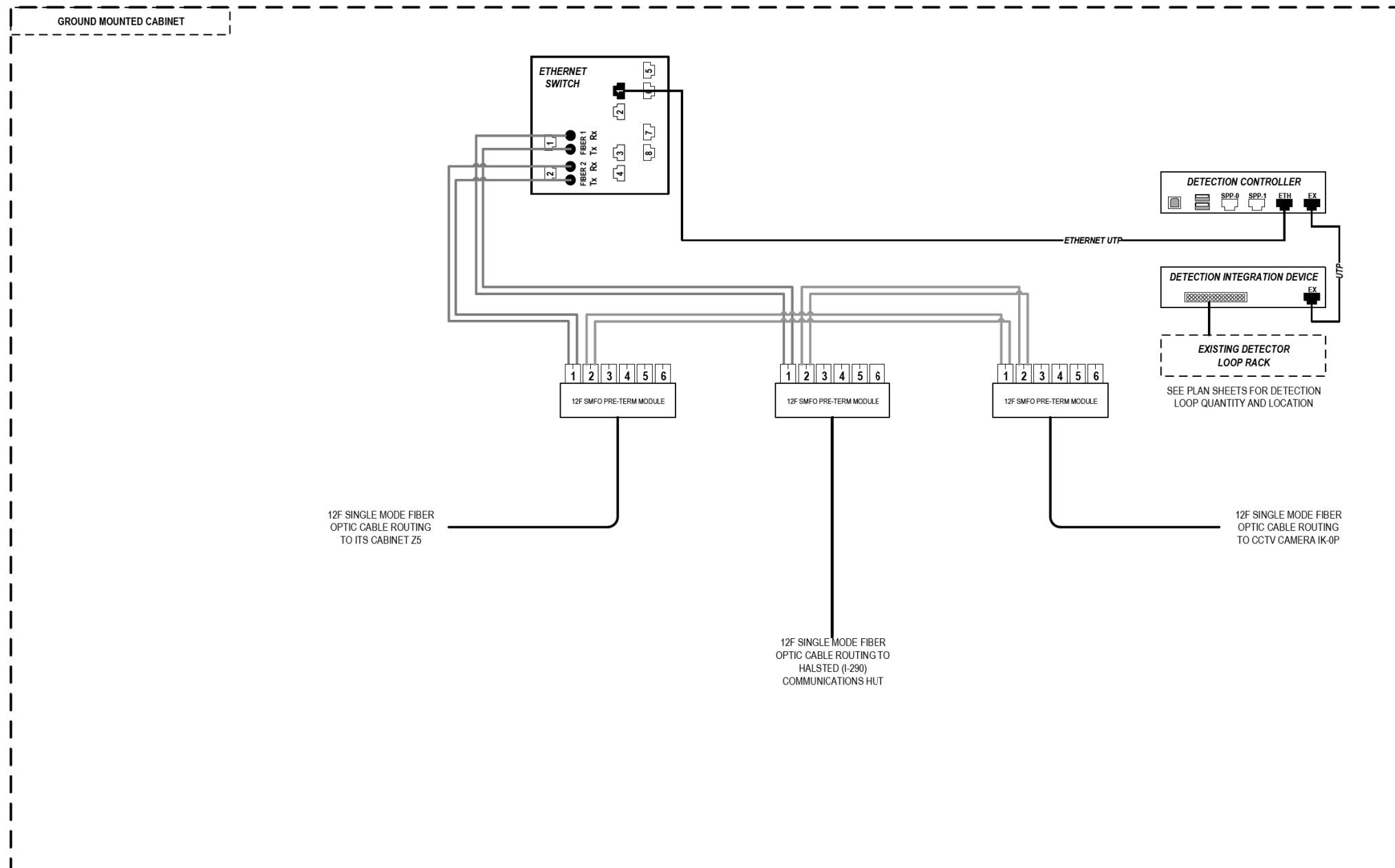
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERA IK-0P (TEMPORARY ACCIDENT INVESTIGATION SITE)  
 SCALE: N.T.S SHEET 65 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	208
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	



FILE PATH = p:\aecom\na-ansi\ecommon\line\local\AECOM\_DS02\_NA\_Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-66



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 62A76**

INSTALL ITS CABINET EQUIPMENT AND RELATED CABLING. TERMINATE 12 SMF LATERAL FROM CCTV CAMERA IK-0P IN CABINET Z4. TERMINATE 12 SMF LATERAL FROM CABINET Z5 IN CABINET Z4. INSTALL 12 SMF LATERAL FROM CABINET Z4 TO EXISTING HALSTED (I-290) COMMUNICATIONS HUT. PROVIDE 100' OF EXTRA SLACK FOR FUTURE RELOCATION TO NEW HALSTED (I-290) COMMUNICATIONS HUT.

**CONTRACT 60Y00**

ITS CABINET EQUIPMENT AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. RELOCATE 12 SMF LATERAL FROM EXISTING HALSTED (I-290) COMMUNICATIONS HUT TO NEW HALSTED (I-290) COMMUNICATIONS HUT AND TERMINATE.

## ITS CABINET Z4 (TEMPORARY ACCIDENT INVESTIGATION SITE)

ITS-66



D160Y00-shr-ITS-66	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

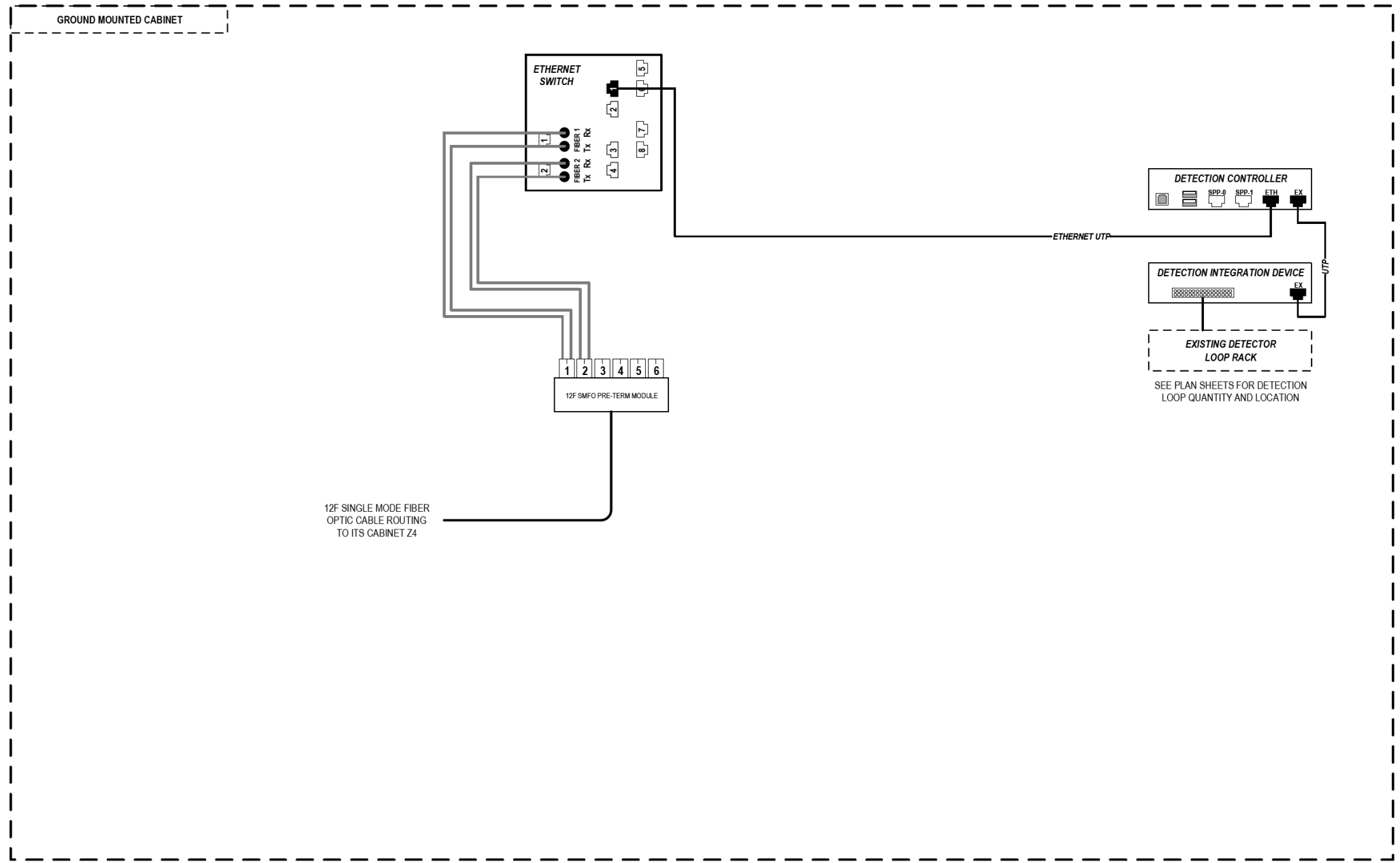
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Z4 (TEMPORARY ACCIDENT INVESTIGATION SITE)

SCALE: N.T.S SHEET 66 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	209
CONTRACT NO. 60Y00				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-ht-ITS-67



12F SINGLE MODE FIBER OPTIC CABLE ROUTING TO ITS CABINET Z4

### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A76**  
 INSTALL ITS CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET Z4 AND TERMINATE.

## ITS CABINET Z5 (PUMP STATION #5)

ITS-67



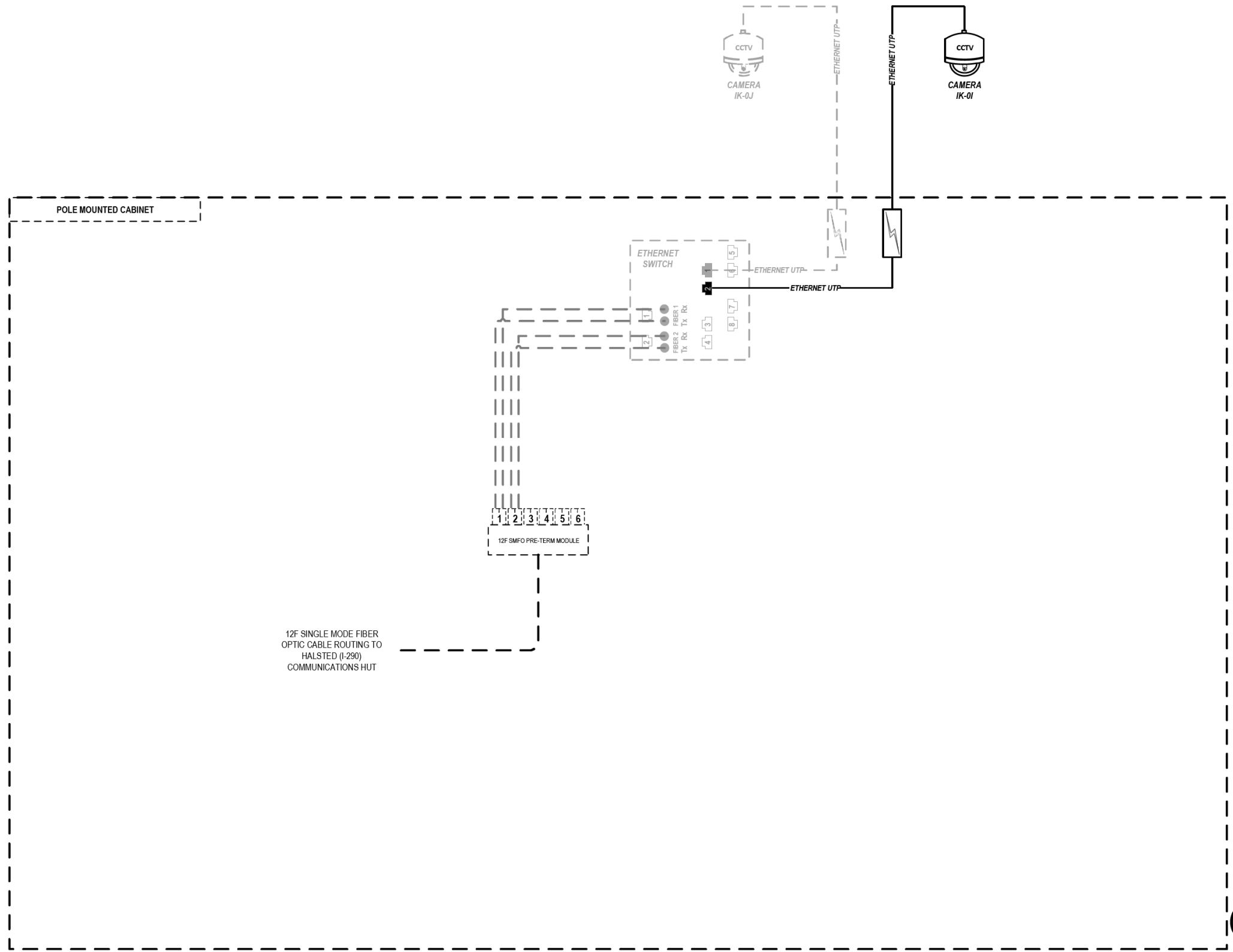
D160Y00-ht-ITS-67	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>COMMUNICATION EQUIPMENT SCHEMATIC</b>			
<b>ITS CABINET Z5 (PUMP STATION #5)</b>			
SCALE: N.T.S	SHEET 67 OF 102 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	210
CONTRACT NO. 60Y00				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\aecom\ms-ansi\ecommon\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-68



12F SINGLE MODE FIBER  
OPTIC CABLE ROUTING TO  
HALSTED (I-290)  
COMMUNICATIONS HUT

**LEGEND**

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 60Y00**  
 CCTV CAMERAS, CCTV CABINET, CABINET EQUIPMENT,  
 AND CABLING INSTALLED BY OTHERS. CONTRACT 60Y00  
 TO REPLACE EXISTING CCTV CAMERA IK-0I.

**CCTV CAMERAS  
 IK-0I & IK-0J  
 (NORTHWEST INTERCHANGE  
 QUADRANT)**

ITS-68



0160Y00-shr-ITS-68  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

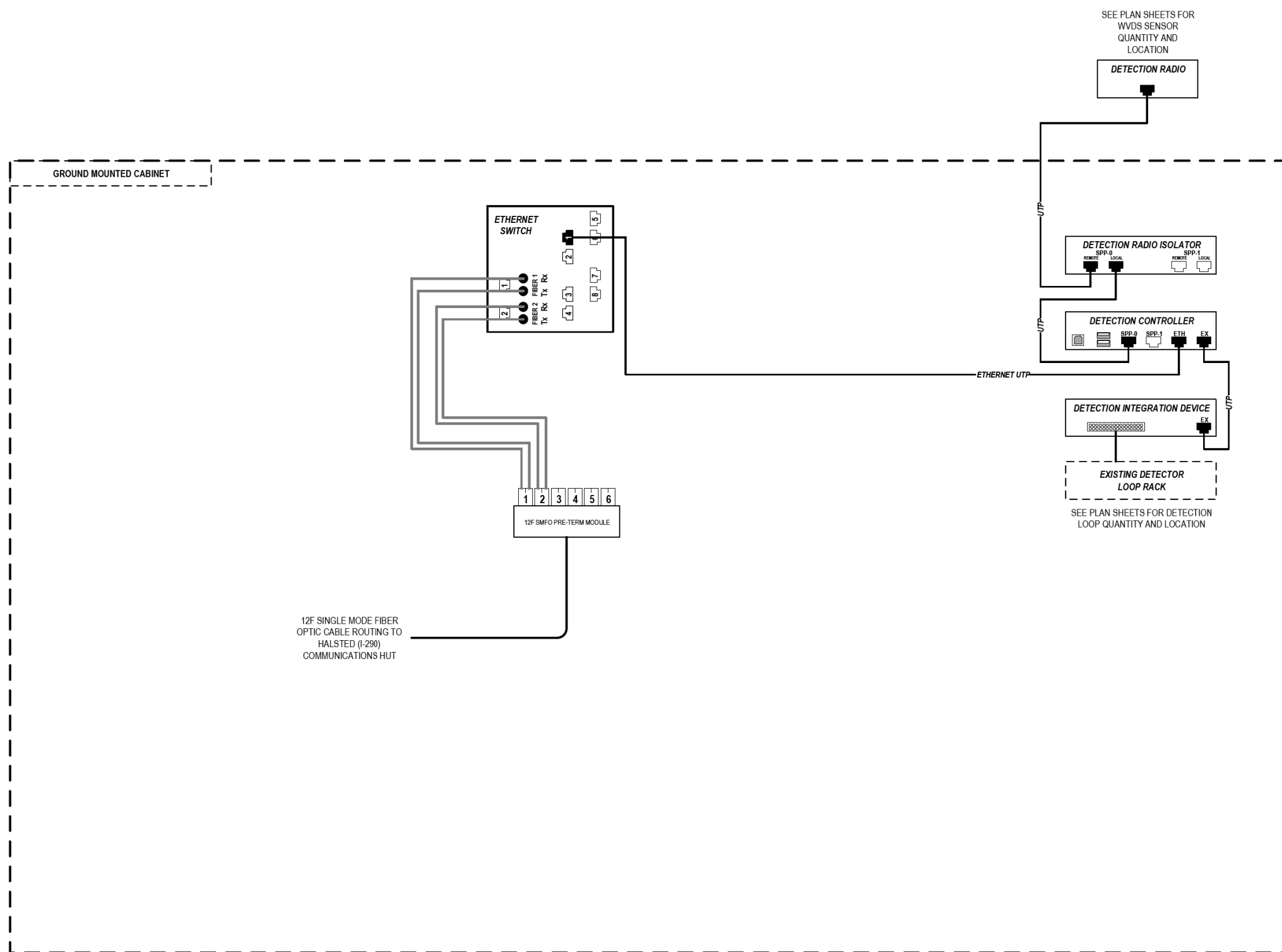
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERAS IK-0I & IK-0J (NORTHWEST INTERCHANGE QUADRANT)**

SCALE: N.T.S. SHEET 68 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	211
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\aecom\na-ansi\ecommon\line\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-69



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 60Y00**  
 RELOCATE EXISTING ITS CABINET AND RELATED EQUIPMENT AND CABLING FROM INSIDE EXISTING HALSTED (I-290) COMMUNICATIONS HUT TO NEW EXTERIOR LOCATION. INSTALL 12 SMF LATERAL TO NEW COMMUNICATIONS HUT AND TERMINATE.

**62A77**  
 ITS CABINET, CABINET EQUIPMENT, AND CABLING TO BE INSTALLED IN CONTRACT 60Y00. CONTRACT 62A77 TO INSTALL WVDS SYSTEM AND RELATED CABLING.

## ITS CABINET Z6 (FLYOVER RAMP)

ITS-69



D160Y00-shr-ITS-69	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

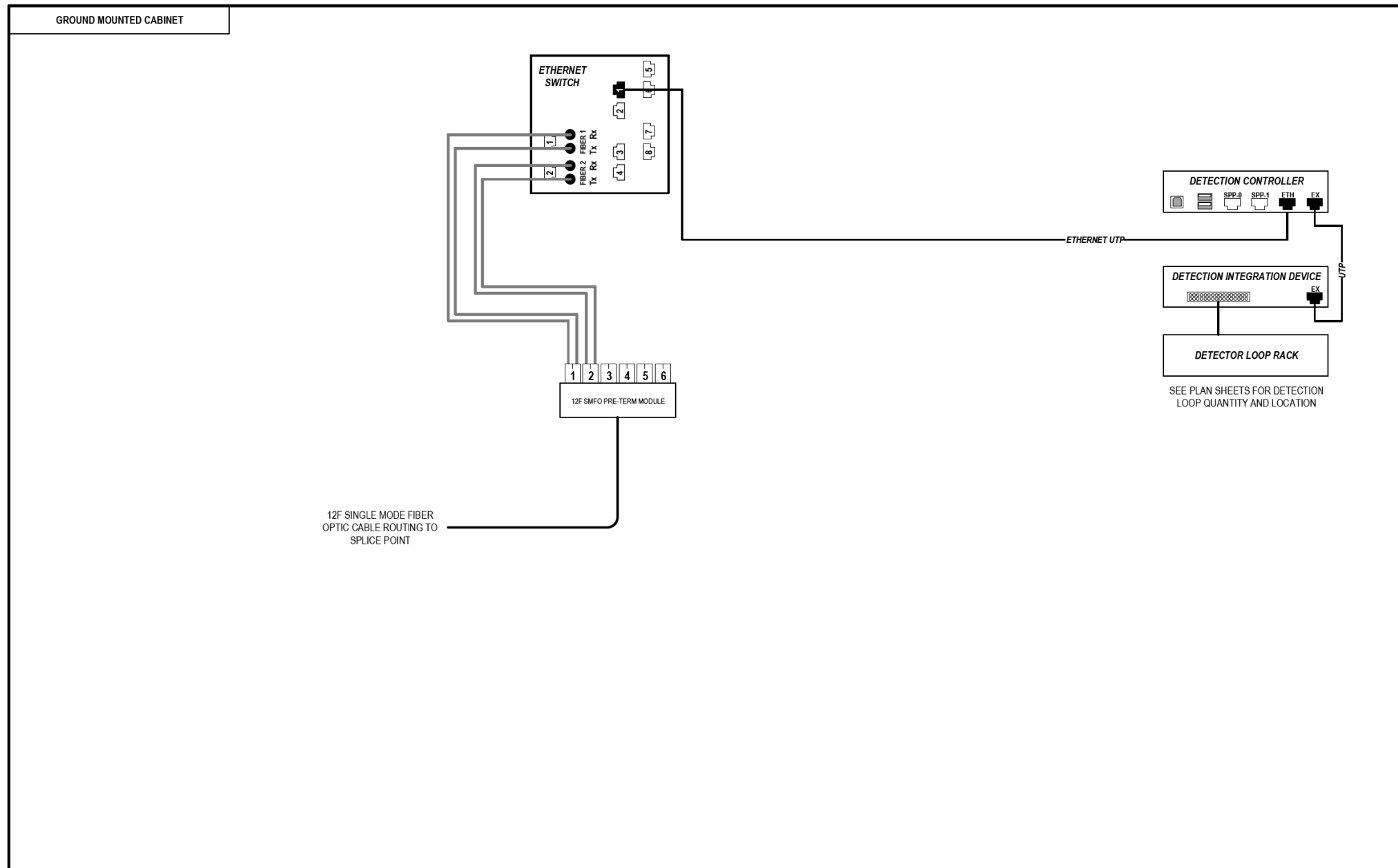
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Z6 (FLYOVER RAMP)

SCALE: N.T.S SHEET 69 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	212
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

FILE PATH = p:\aecom\na-ansi\ecommon\line\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-ht-ITS-70



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 62A76**  
 INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING ON EXISTING FOUNDATION. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00.

**CONTRACT 60Y00**  
 ITS CABINET, CABINET EQUIPMENT, AND CABLING TO BE INSTALLED ON EXISTING FOUNDATION IN CONTRACT 62A76. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

## ITS CABINET Z7 (VAN BUREN STREET)

ITS-70



D160Y00-ht-ITS-70	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

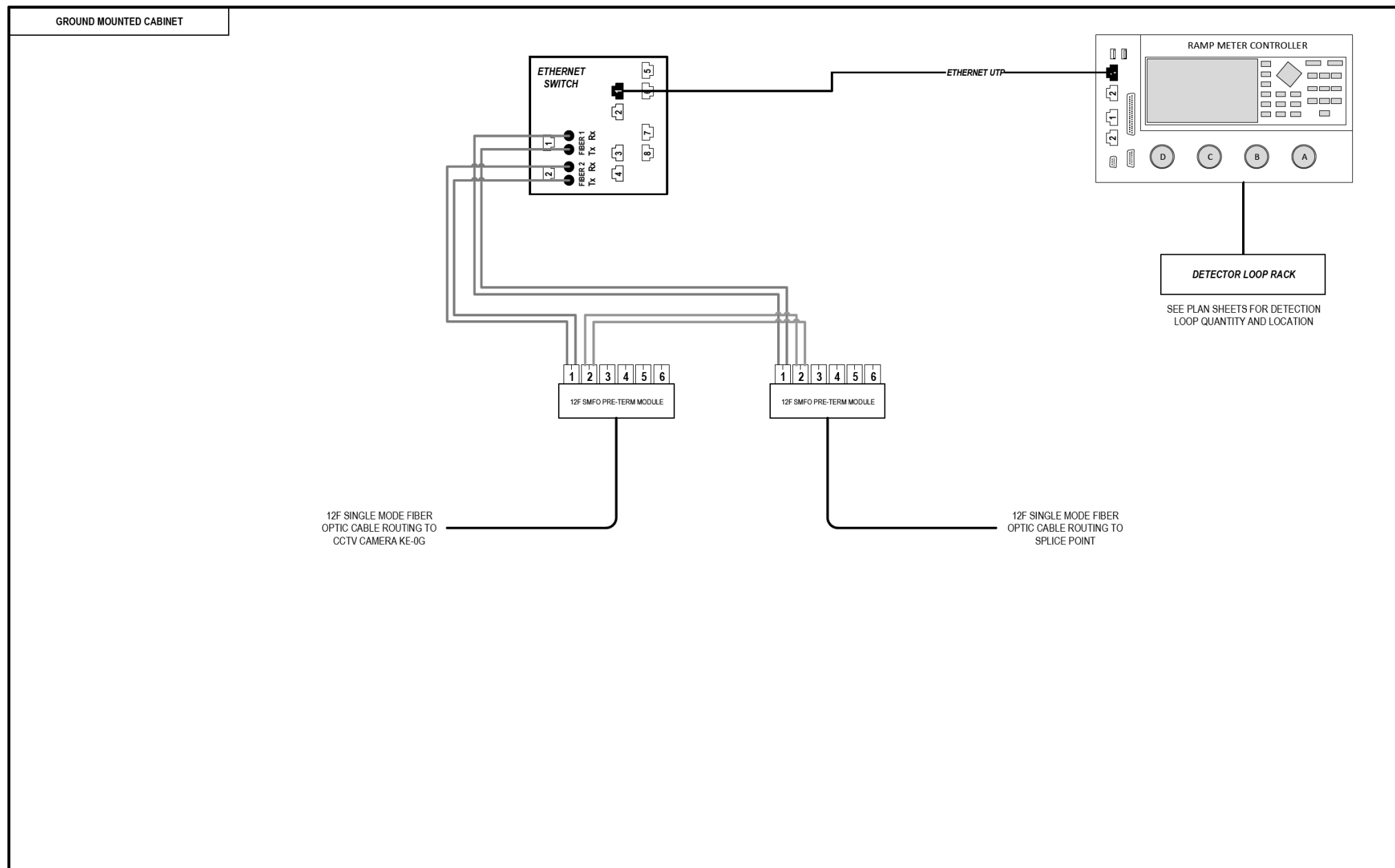
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Z7 (VAN BUREN STREET)

SCALE: N.T.S SHEET 70 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	213
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\line\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-71



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 60X94**  
 INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00.

**CONTRACT 60Y00**  
 ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS IN CONTRACT 60X94. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE AND TO INSTALL 12 SMF LATERAL FROM CAMERA KE-0G.

## ITS CABINET Z8 (JACKSON BOULEVARD)

ITS-71



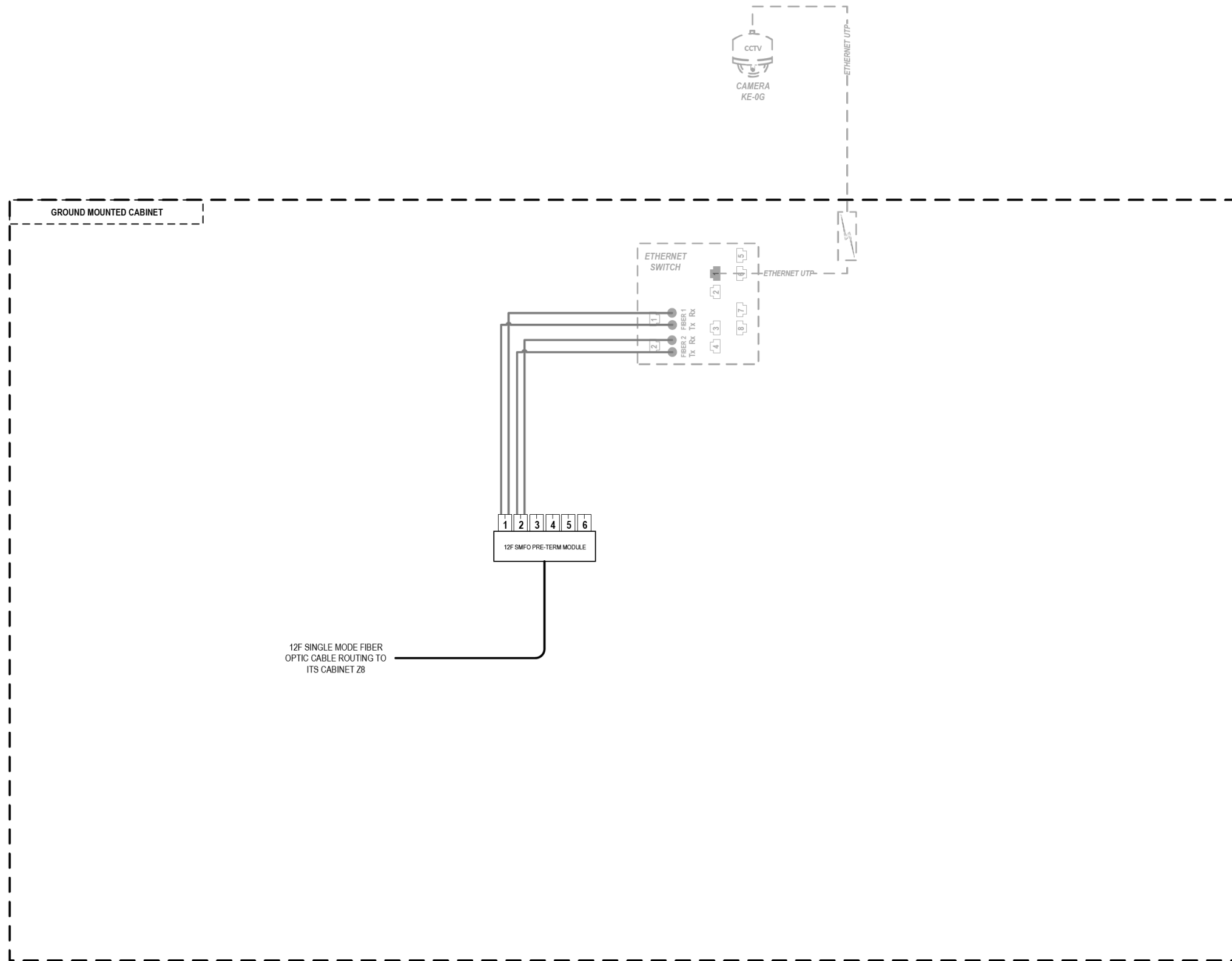
D160Y00-shr-ITS-71	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC	
ITS CABINET Z8 (JACKSON BOULEVARD)	
SCALE: N.T.S	SHEET 71 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	214
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-72



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 60Y00**  
 CCTV CAMERA, CCTV CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS.  
 CONTRACT 60Y00 TO RELOCATE CAMERA ELEMENTS TO PERMANENT POLE AND INSTALL 12 SMF CABLE TO CABINET Z8 AND TERMINATE.

## CCTV CAMERA KE-0G (JACKSON BOULEVARD)

ITS-72



D160Y00-shr-ITS-72  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

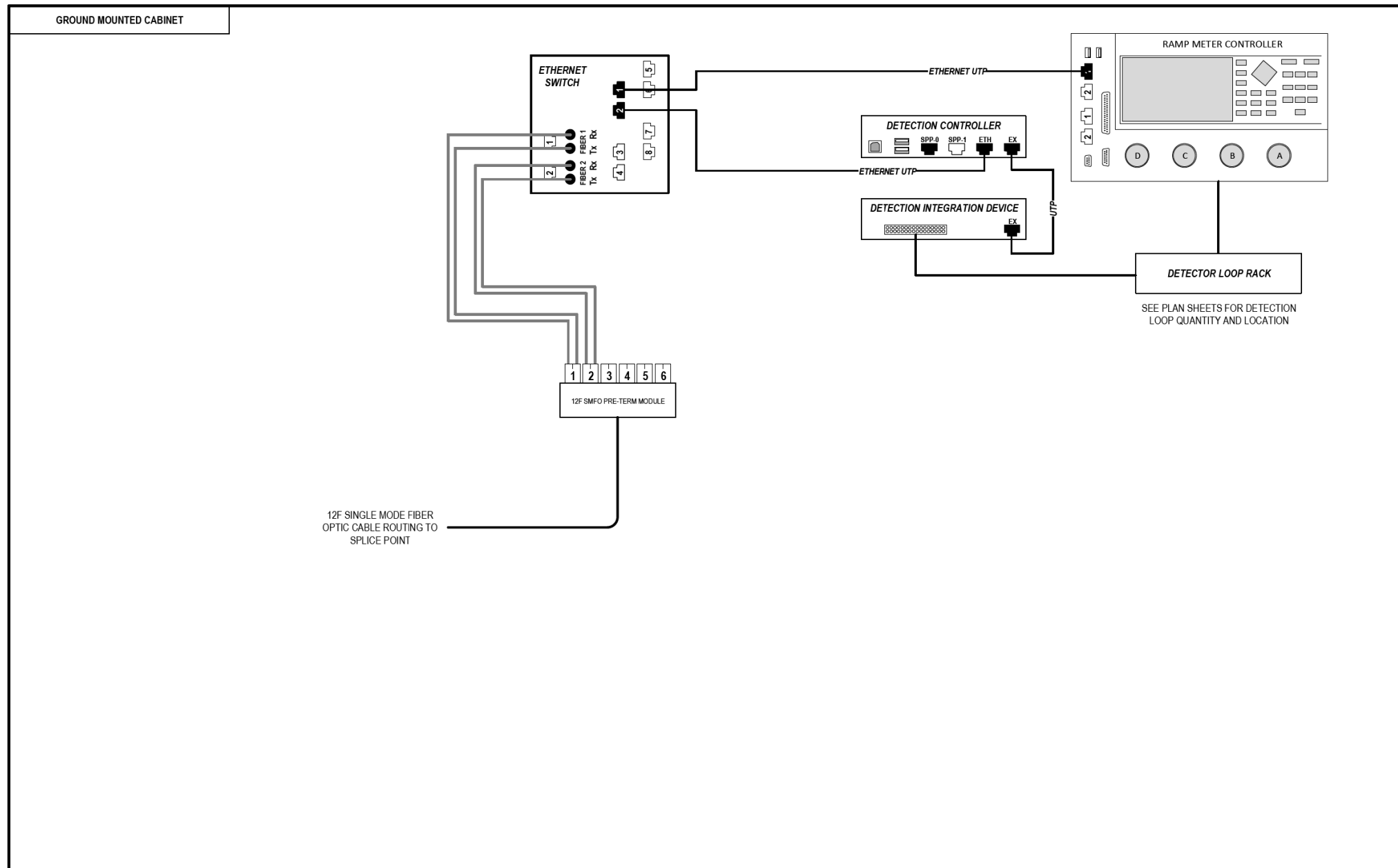
DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERA KE-0G (JACKSON BOULEVARD)  
 SCALE: N.T.S SHEET 72 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	215
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\line\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase 1\1000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-73



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 60X94**  
 INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00.

**CONTRACT 60Y00**  
 ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 60X94. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

## ITS CABINET Z11 (ADAMS STREET)

ITS-73



D160Y00-shr-ITS-73	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

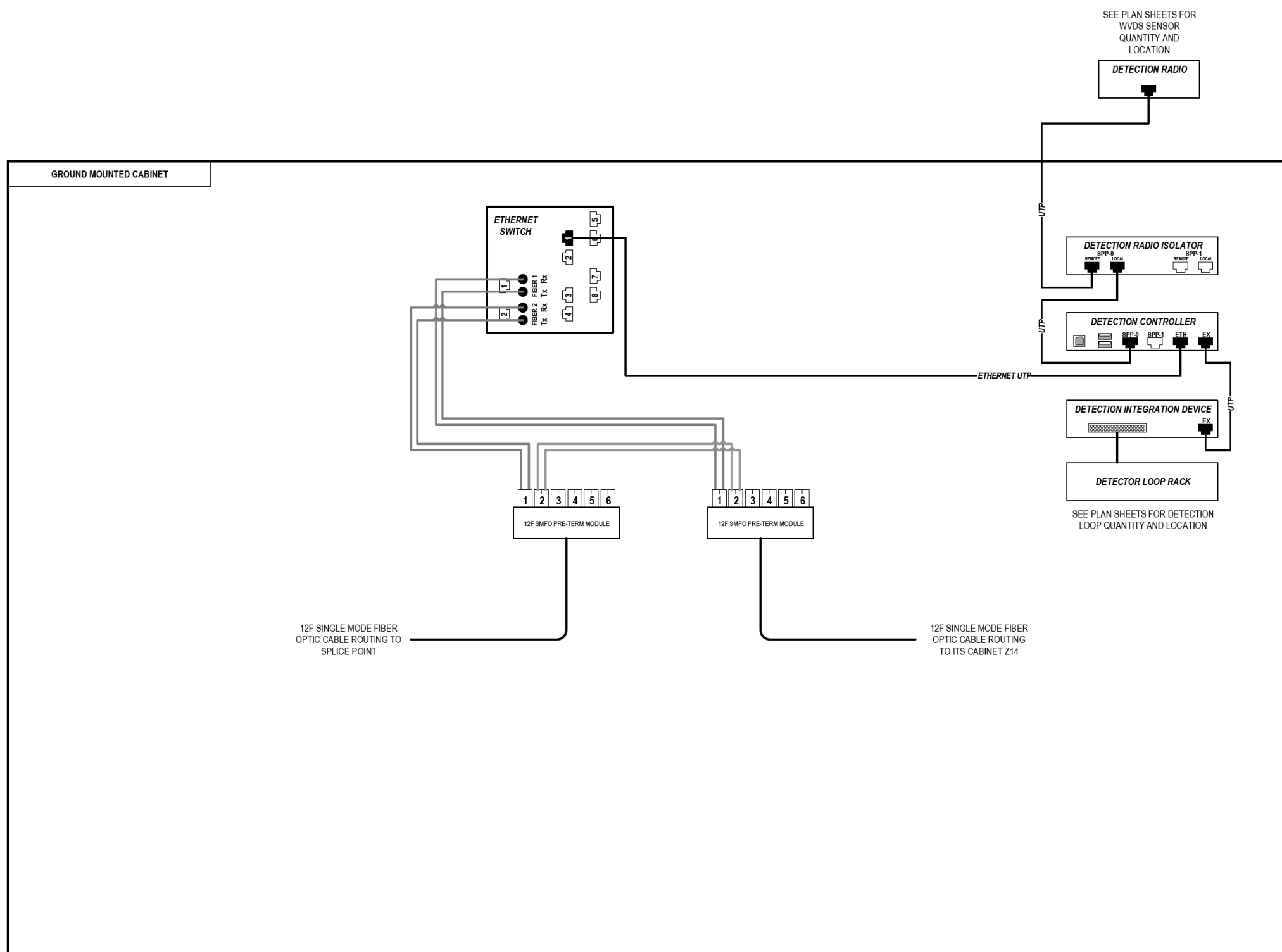
COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Z11 (ADAMS STREET)

SCALE: N.T.S SHEET 73 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	216
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	



FILE PATH = p:\naecom\na-ansi\electrom\line\local\AECOM\_DS02\_ILA\Documents\01\_Americas\Transportation\60269938\_Circle Phase 1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contracts\0160Y00-shr-ITS-74



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 62A76**  
 INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. 12 SMF LATERAL FROM CABINET Z14 INSTALLED BY OTHERS IN CONTRACT 62A77.

**CONTRACT 62A77**  
 ITS CABINET, CABINET EQUIPMENT, RELATED CABLING AND 12 SMF LATERAL TO TRUNKLINE INSTALLED BY OTHERS IN CONTRACT 62A76. 12 SMF LATERAL TO TRUNKLINE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. INSTALL 12 SMF LATERAL FROM CABINET Z14 AND TERMINATE.

**CONTRACT 60Y00**  
 ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76 AND CONTRACT 62A77. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

**ITS CABINET Y15  
(MONROE STREET)**

ITS-74



D160Y00-shr-ITS-74	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

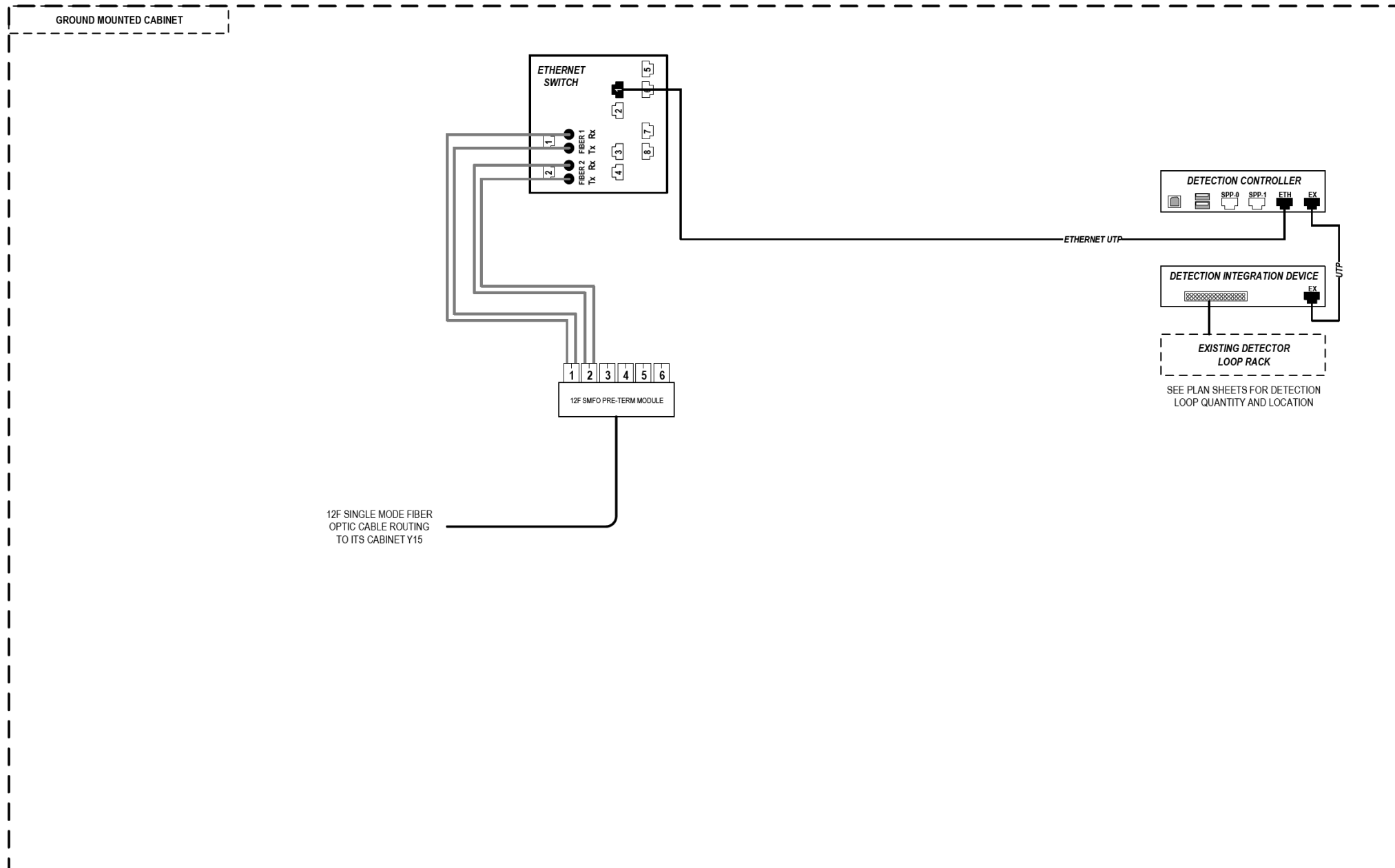
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Y15 (MONROE STREET)**

SCALE: N.T.S SHEET 74 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	217
CONTRACT NO. 60Y00				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\AECOM\NA-AVSI\ecommon\line\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-75



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A77**  
 INSTALL ITS CABINET EQUIPMENT, RELATED CABLING AND 12 SMF LATERAL TO CABINET Y15 AND TERMINATE.

## ITS CABINET Z14 (MONROE STREET)

ITS-75



D160Y00-shr-ITS-75	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

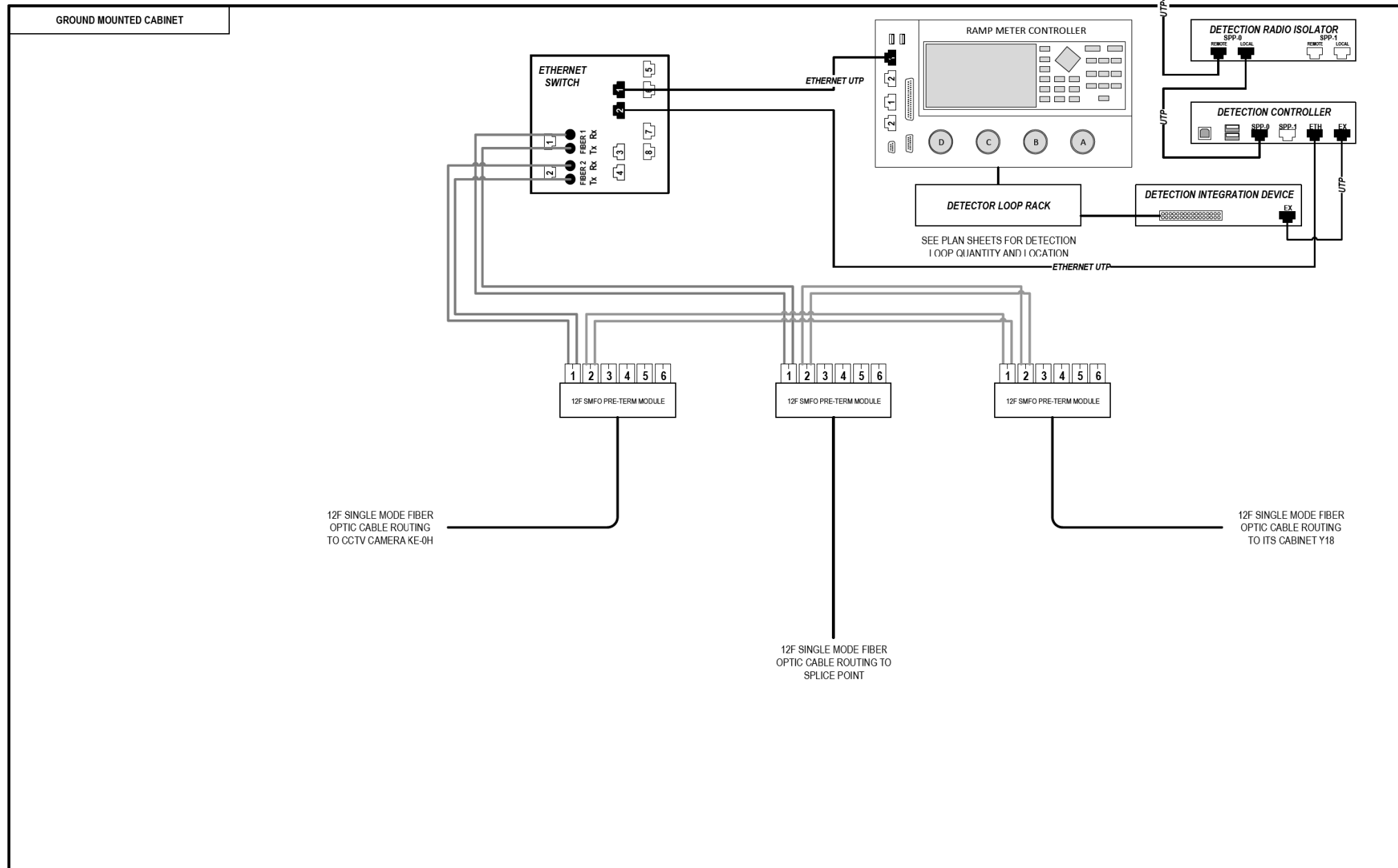
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Z14 (MONROE STREET)**

SCALE: N.T.S SHEET 75 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	218
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

FILE PATH = p:\aecom\ms-ans\electrom\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-76



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 62A76**  
 INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. TERMINATE 12 SMF LATERAL FROM CAMERA KE-0H. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. 12 SMF LATERAL FROM CABINET Y18 INSTALLED BY OTHERS IN CONTRACT 62A77.

**CONTRACT 62A77**  
 ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. INSTALL 12 SMF LATERAL TO CABINET Y18 AND TERMINATE.

**CONTRACT 60Y00**  
 ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76 AND CONTRACT 62A77. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

## ITS CABINET Y19 (MADISON STREET)



D160Y00-shr-ITS-76	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

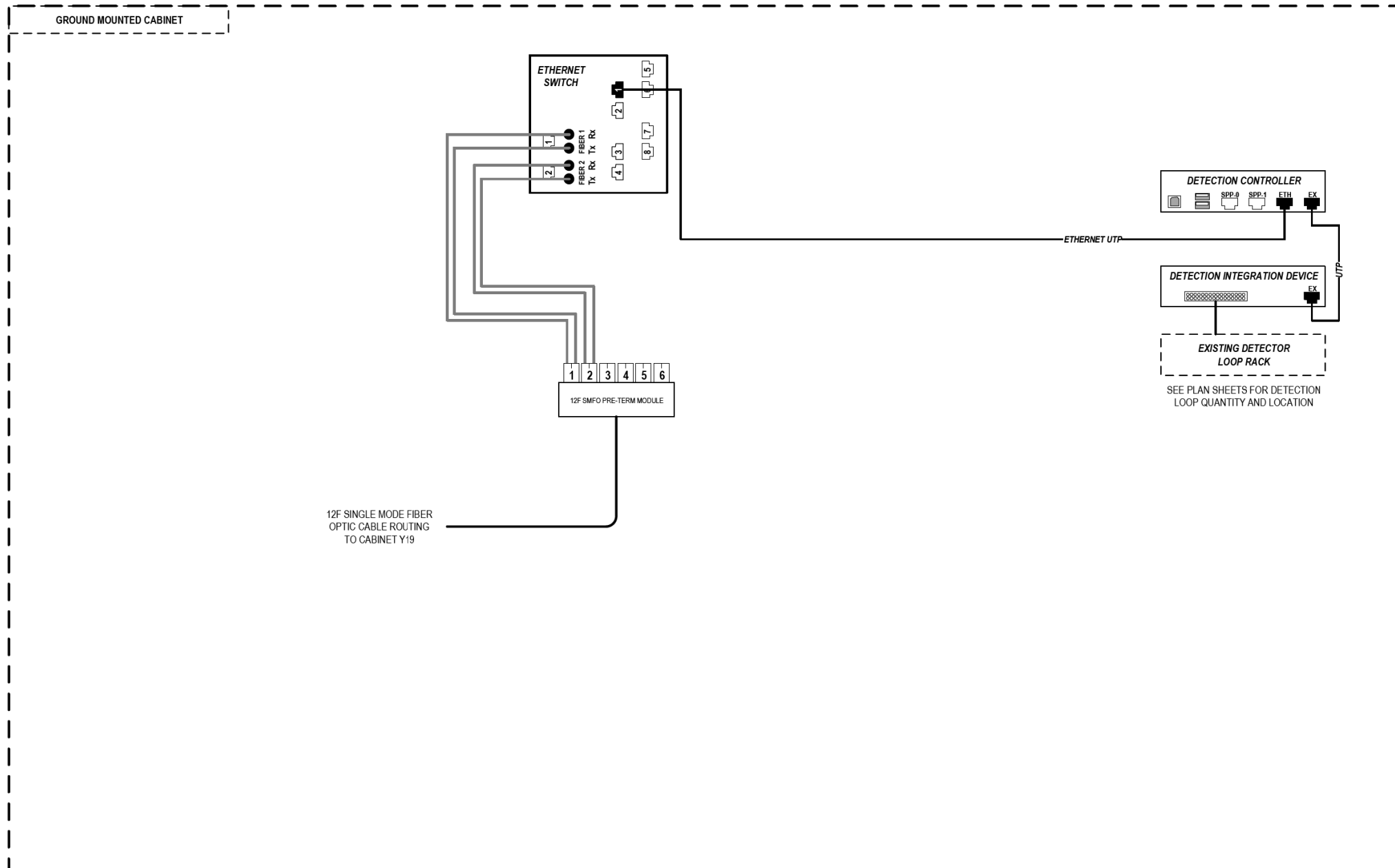
COMMUNICATION EQUIPMENT SCHEMATIC  
 ITS CABINET Y19 (MADISON STREET)

SCALE: N.T.S SHEET 76 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	219
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

ITS-76

FILE PATH = p:\AECOM\NA-AVSI\ecommon\line\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-77



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A77**  
 INSTALL ITS CABINET EQUIPMENT, RELATED CABLING AND 12 SMF LATERAL TO CABINET Y19 AND TERMINATE.

## ITS CABINET Y18 (MADISON STREET)

ITS-77



D160Y00-shr-ITS-77	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

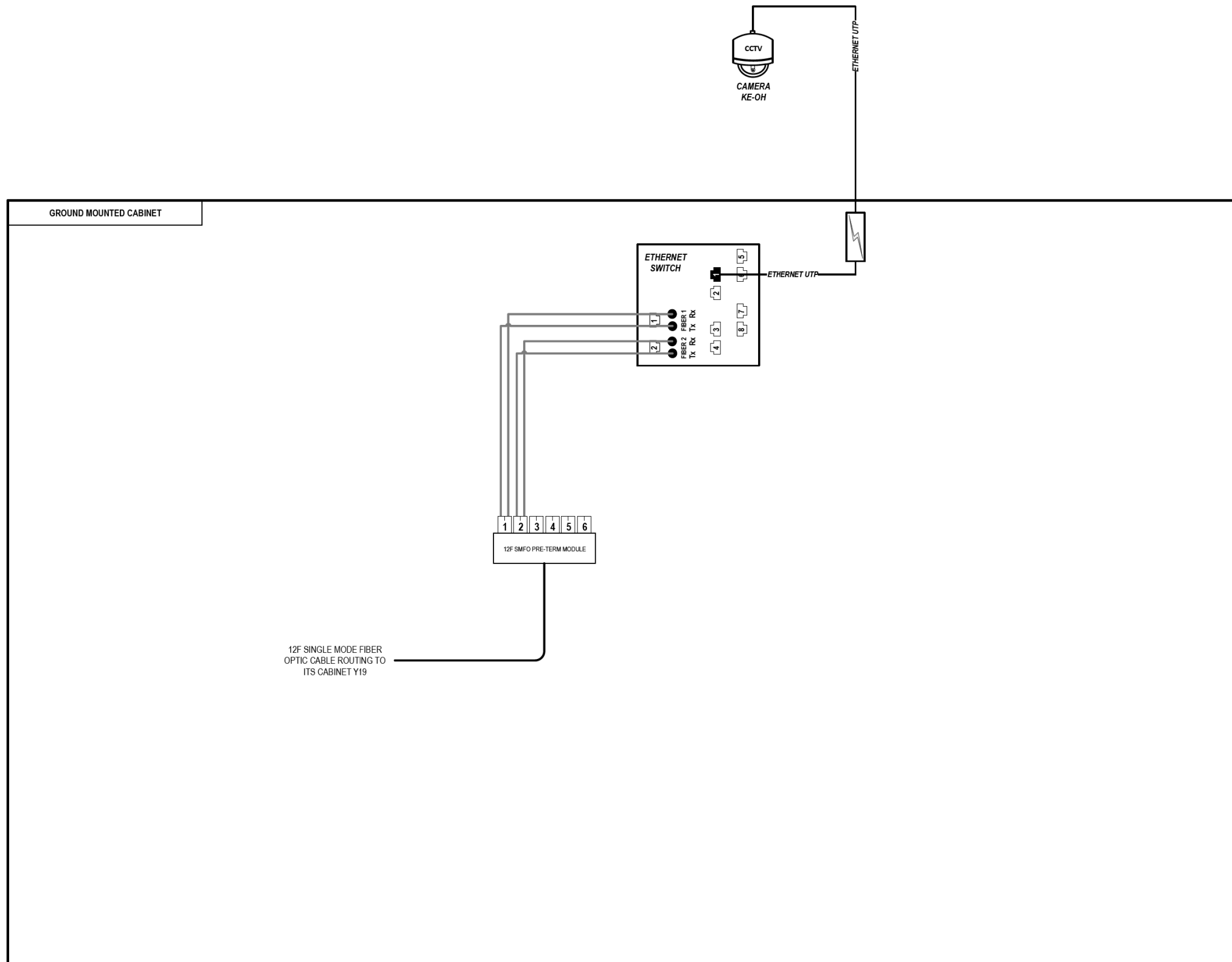
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Y18 (MADISON STREET)**

SCALE: N.T.S SHEET 77 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	220
CONTRACT NO. 60Y00				ILLINOIS FED. AID PROJECT

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase\_1\000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-sht-ITS-78



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A76**  
 INSTALL CCTV CAMERA, CCTV CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET Y19 AND TERMINATE.

## CCTV CAMERA KE-OH (MADISON STREET)

ITS-78



D160Y00-sht-ITS-78  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

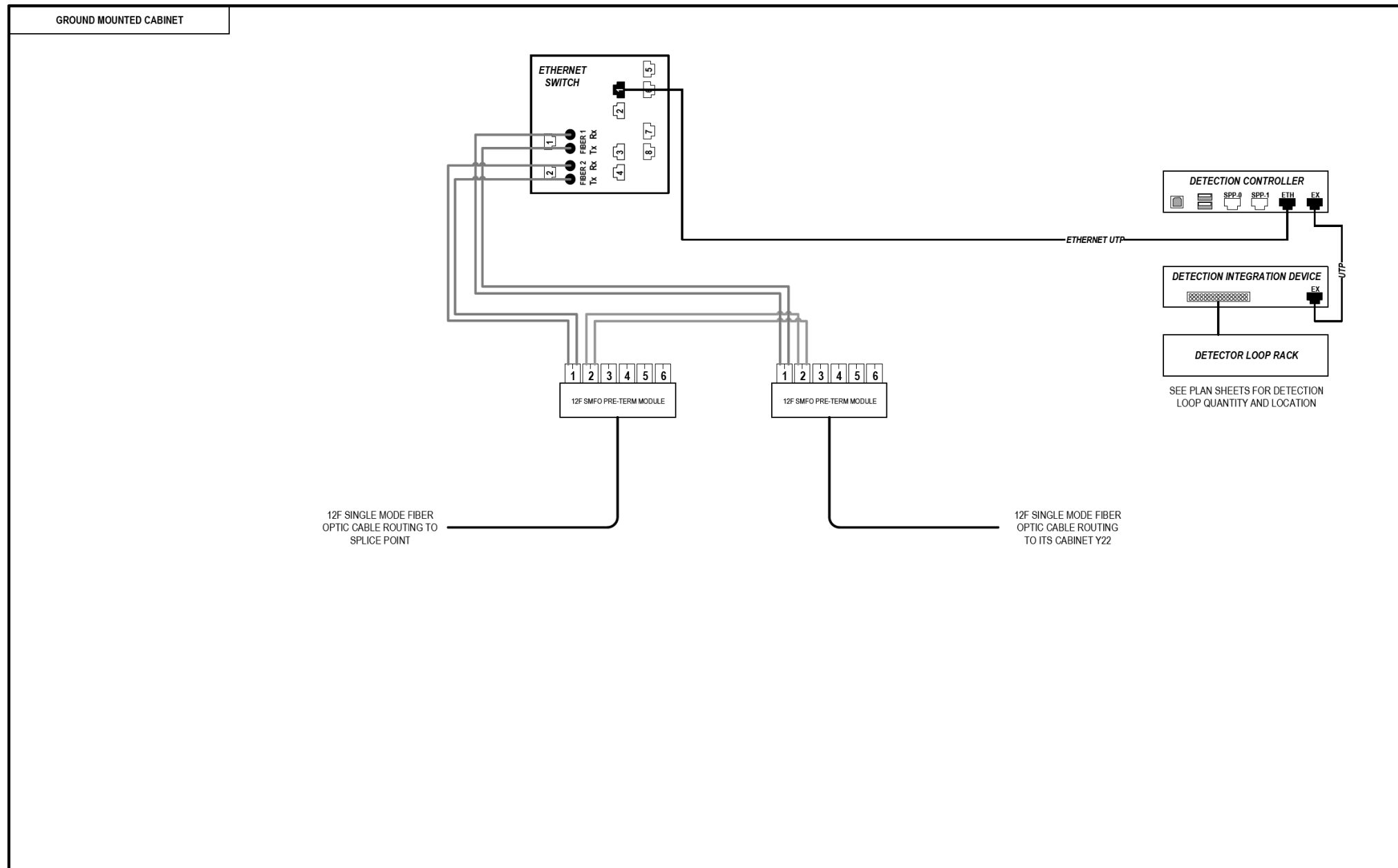
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERA KE-OH (MADISON STREET)

SCALE: N.T.S SHEET 78 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	221
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase\11\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-79



### LEGEND

- E238.2D** DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM**
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM**
- CCTV CAMERA**
- EXISTING CCTV CAMERA**
- DMS** **DYNAMIC MESSAGE SIGN**
- EXISTING DYNAMIC MESSAGE SIGN**
- PATCH THROUGH FIBER OPTIC JUMPER**
- FIBER OPTIC JUMPER, SINGLE MODE**
- FIBER OPTIC PIGTAIL, SINGLE MODE**
- BARE FIBER LEFT COILED IN SPLICE TRAY**
- FIBER OPTIC FUSION SPLICE**
- FIBER PATCH PANEL**
- SURGE SUPPRESSION**

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 62A76**  
 INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPliced TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. 12 SMF LATERAL FROM CABINET Y22 INSTALLED BY OTHERS IN CONTRACT 62A77.

**CONTRACT 62A77**  
 ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. INSTALL 12 SMF LATERAL FROM CABINET Y22 AND TERMINATE.

**CONTRACT 60Y00**  
 ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76 AND CONTRACT 62A77. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

## ITS CABINET Y23 (WASHINGTON BOULEVARD)

ITS-79



D160Y00-shr-ITS-79	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

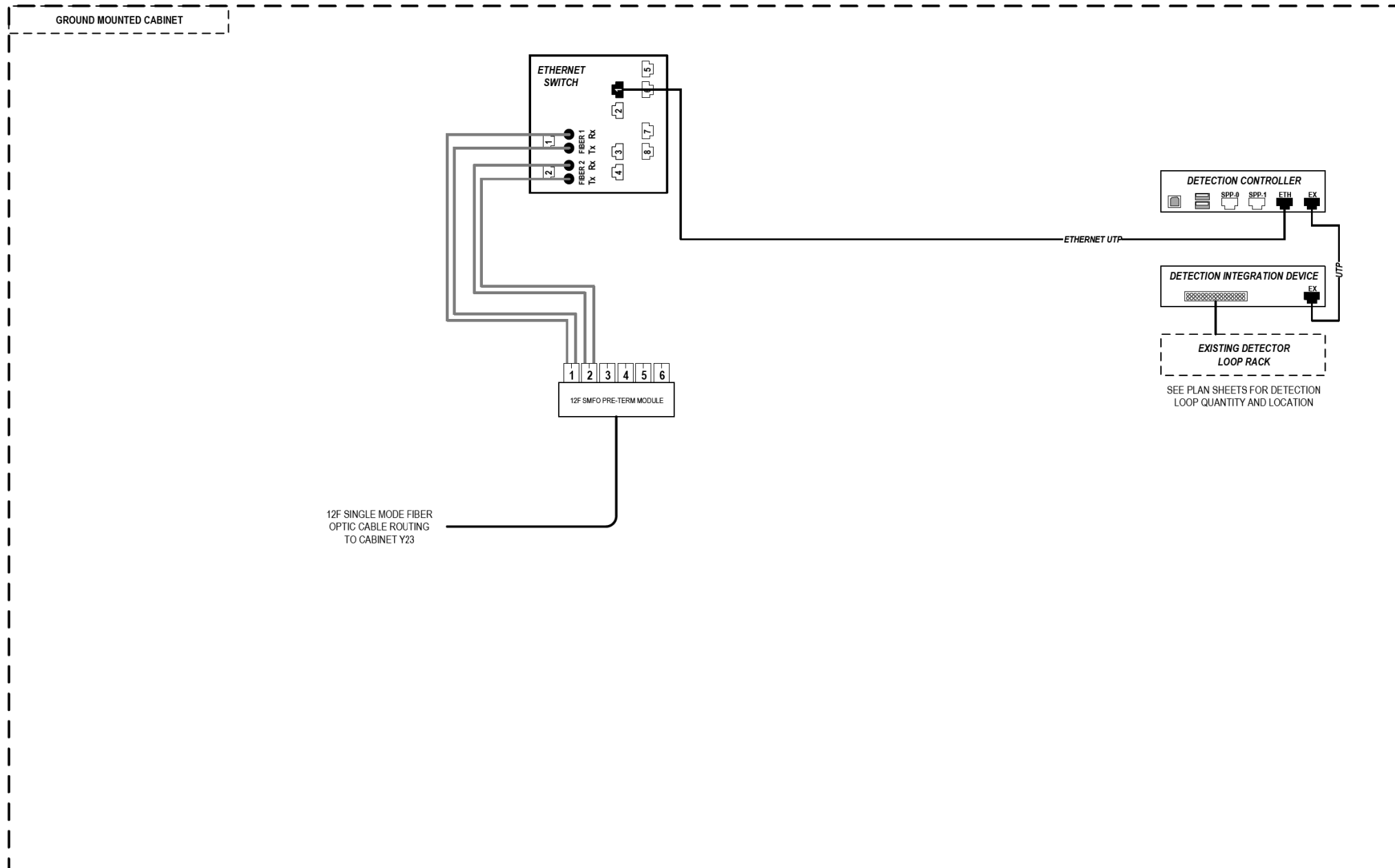
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Y23 (WASHINGTON STREET)**

SCALE: N.T.S SHEET 79 OF 102 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	222
CONTRACT NO. 60Y00				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-80



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A77**  
 INSTALL ITS CABINET EQUIPMENT, RELATED CABLING AND 12 SMF LATERAL TO CABINET Y23 AND TERMINATE.

## ITS CABINET Y22 (WASHINGTON BOULEVARD)

ITS-80



D160Y00-shr-ITS-80  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

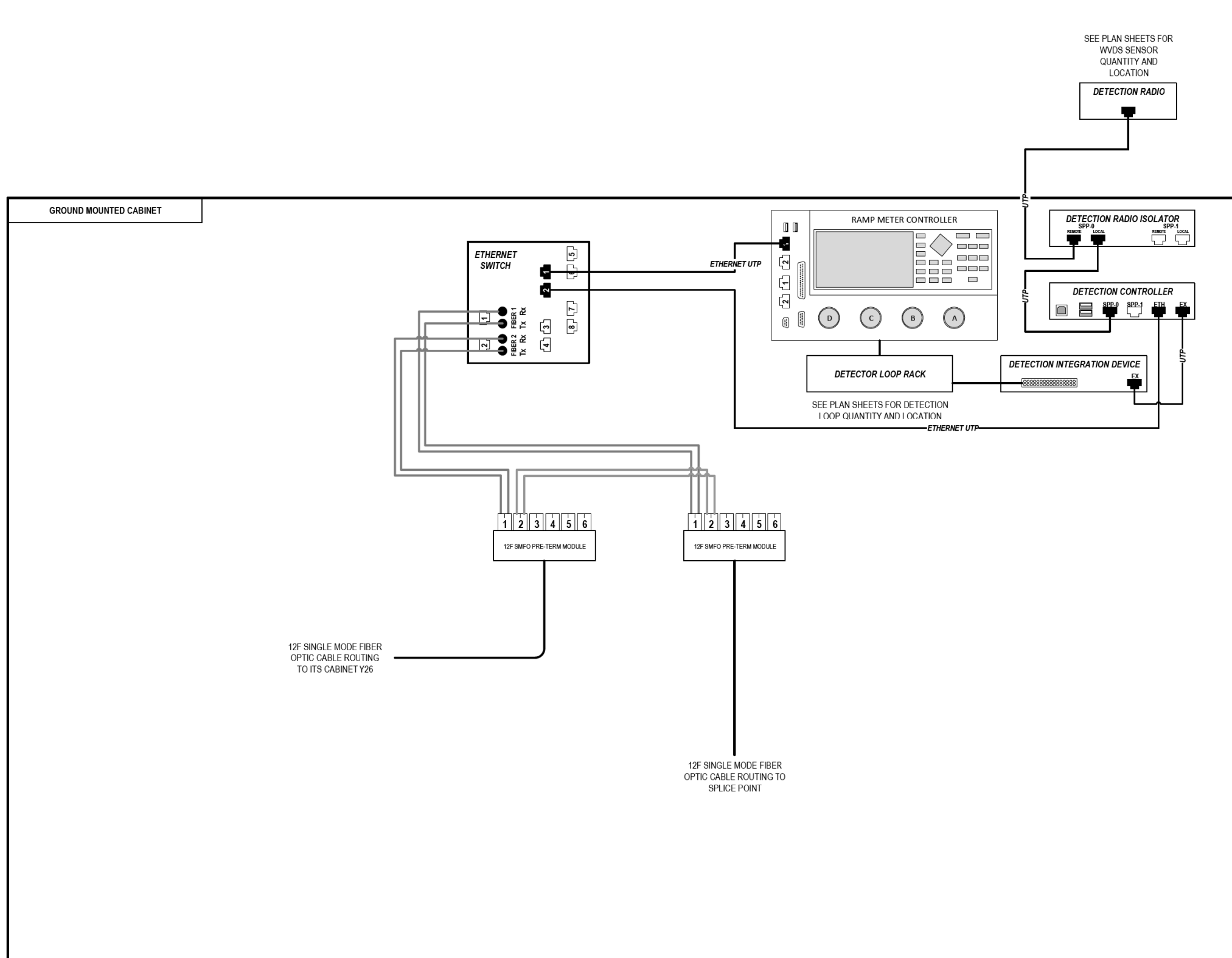
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Y22 (WASHINGTON STREET)**

SCALE: N.T.S SHEET 80 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	223
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

FILE PATH = p:\aecom\ms-ams\electrom\local\AECOM\_DS02\_ILA\Documents\01\_Americas\Transportation\60269938\_Circle Phase 1\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-81



12F SINGLE MODE FIBER OPTIC CABLE ROUTING TO ITS CABINET Y26

12F SINGLE MODE FIBER OPTIC CABLE ROUTING TO SPLICE POINT

### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 62A76**  
 INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. 12 SMF LATERAL FROM CABINET Y26 INSTALLED BY OTHERS IN CONTRACT 62A77.

**CONTRACT 62A77**  
 ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. INSTALL 12 SMF LATERAL TO CABINET Y26 AND TERMINATE.

**CONTRACT 60Y00**  
 ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76 AND CONTRACT 62A77. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

## ITS CABINET Y27 (RANDOLPH STREET)



D160Y00-shr-ITS-81  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

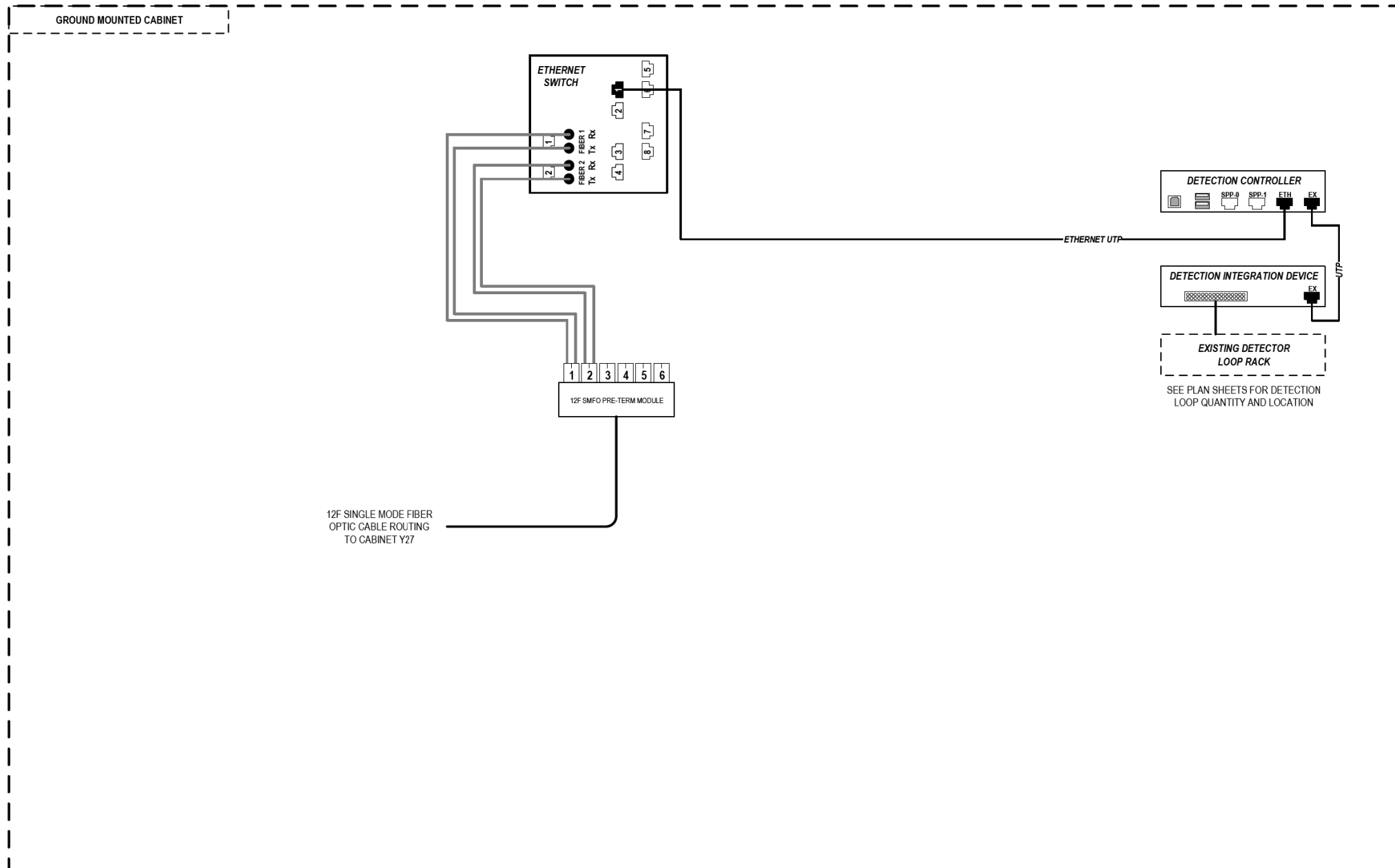
COMMUNICATION EQUIPMENT SCHEMATIC  
 ITS CABINET Y27 (RANDOLPH STREET)

SCALE: N.T.S SHEET 81 OF 102 SHEETS STA. TO STA.

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	224
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	



FILE PATH = p:\AECOM\NA-AVSI\ecommon\line\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-82



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A77**  
 INSTALL ITS CABINET EQUIPMENT, RELATED CABLING AND 12 SMF LATERAL TO CABINET Y27 AND TERMINATE.

## ITS CABINET Y26 (RANDOLPH STREET)

ITS-82



D160Y00-shr-ITS-82	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

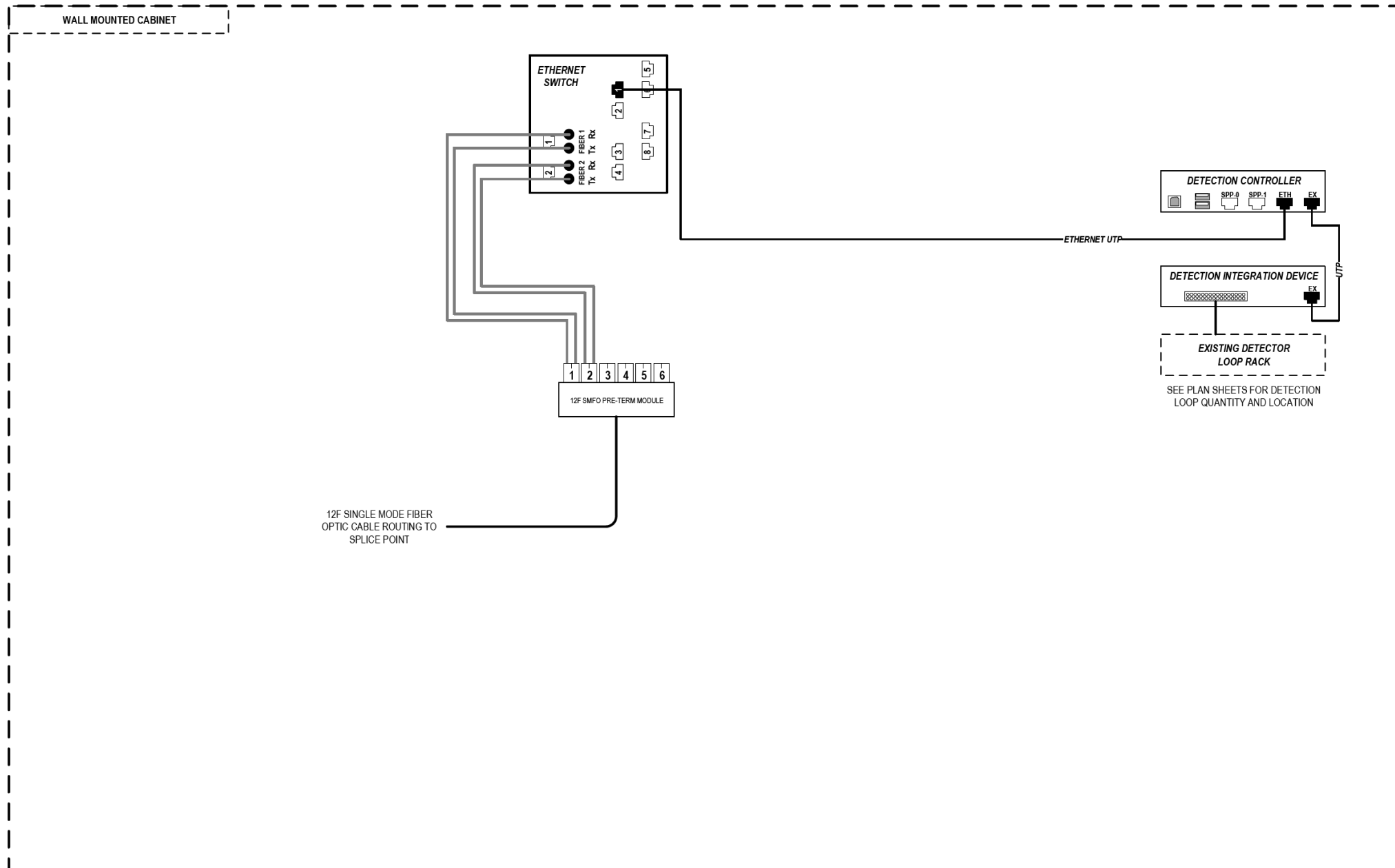
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET Y26 (RANDOLPH STREET)

SCALE: N.T.S SHEET 82 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	225
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-83



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 62A77**  
 INSTALL ITS CABINET EQUIPMENT, RELATED CABLING AND 12 SMF LATERAL TO CABINET Y27 AND TERMINATE.

## ITS CABINET G36 (GREEN STREET)

ITS-83



D160Y00-shr-ITS-83	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

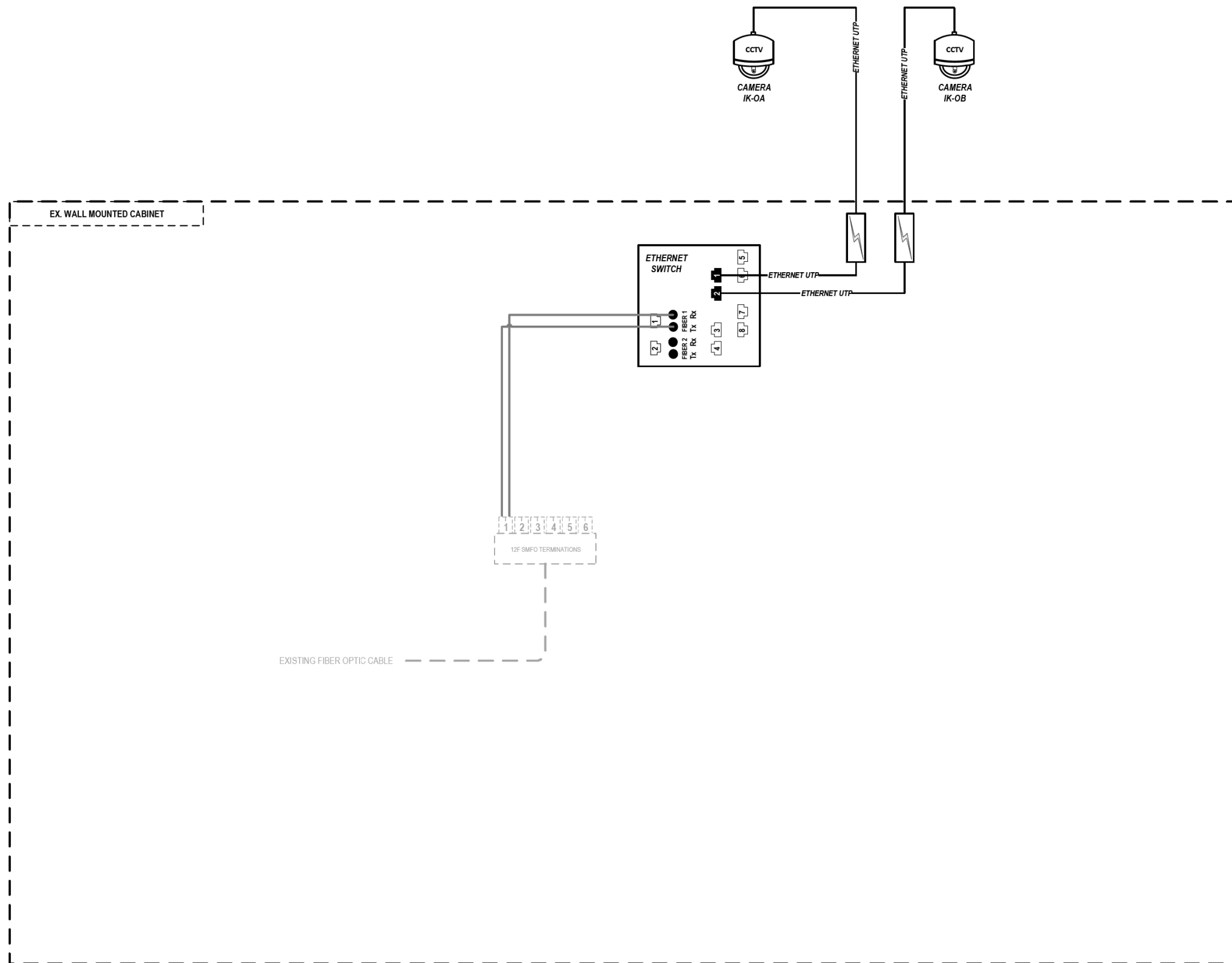
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
ITS CABINET S36 (GREEN STREET)

SCALE: N.T.S SHEET 83 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	226
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\line\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase\1\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-84



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**

**CONTRACT 60Y00**  
 CCTV CABINET INSTALLED BY OTHERS. CCTV CAMERA IK-0A & IK-0B, CABINET EQUIPMENT, AND RELATED CABLING TO BE REPLACED IN CONTRACT 60Y00.

**CCTV CAMERAS IK-0A & IK-0B (SOUTHEAST CHICAGO RIVER BRIDGE HOUSE)**

ITS-84



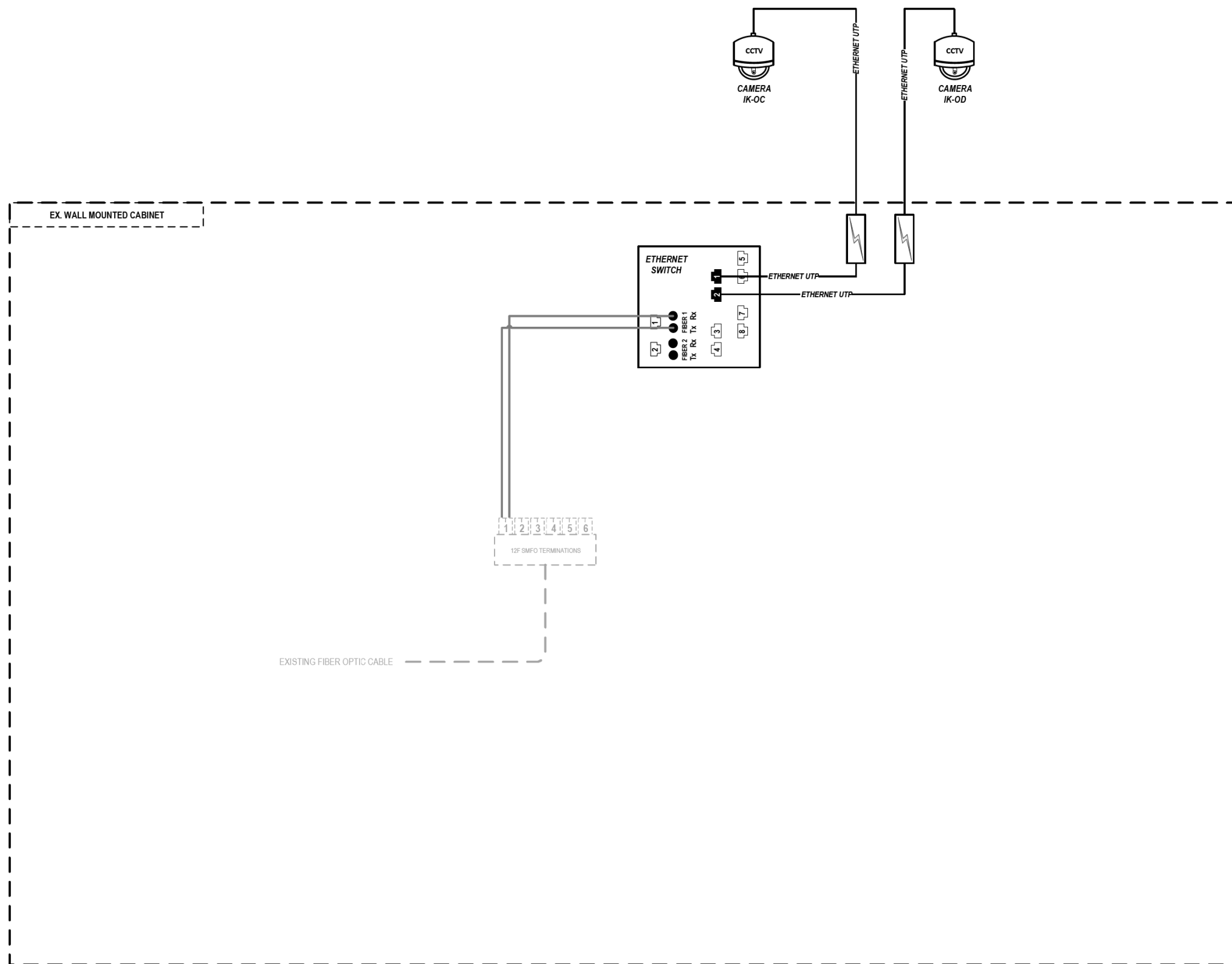
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USER NAME = myersc	DRAWN - CAM	REVISED -
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PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

COMMUNICATION EQUIPMENT SCHEMATIC	
CCTV CAMERAS IK-0A & IK-0B (SE POST OFFICE BRIDGE HOUSE)	
SCALE: N.T.S	SHEET 84 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	227
CONTRACT NO. 60Y00				ILLINOIS FED. AID PROJECT

FILE PATH = p:\aecom\na-ansi\ecommon\line\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase\1\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-85



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 60Y00**  
 CCTV CABINET INSTALLED BY OTHERS. CCTV CAMERA IK-OC & IK-OD, CABINET EQUIPMENT, AND RELATED CABLING TO BE REPLACED IN CONTRACT 60Y00.

## CCTV CAMERAS IK-OC & IK-OD (NORTHWEST CHICAGO RIVER BRIDGE HOUSE)

ITS-85



D160Y00-shr-ITS-85	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

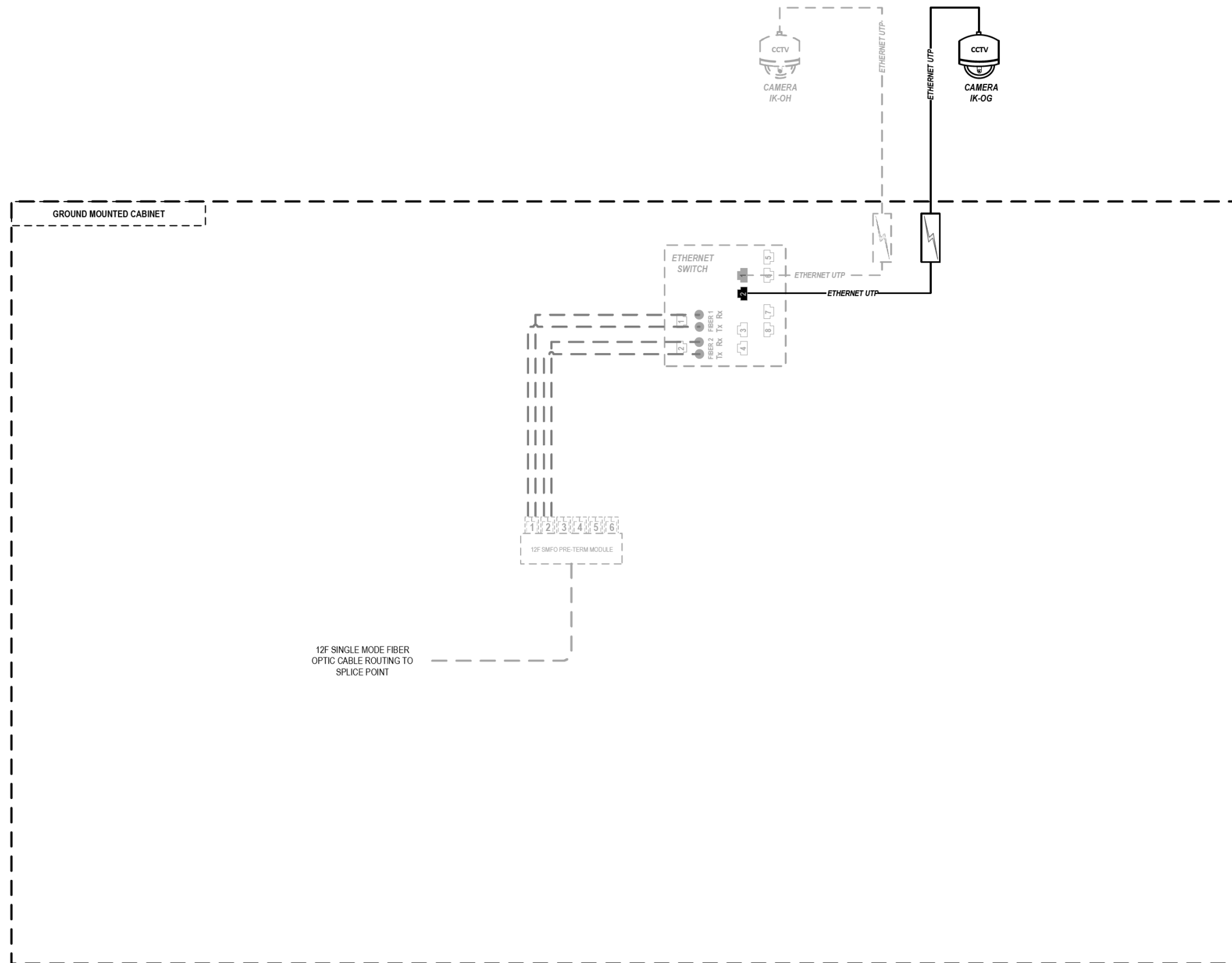
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERAS IK-OC & IK-OD (NW POST OFFICE BRIDGE HOUSE)**

SCALE: N.T.S    SHEET 85 OF 102 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	228
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase\1\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-86



**LEGEND**

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 60Y00**  
 CCTV CAMERAS, CCTV CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS. CCTV CAMERA IK-0G TO BE REPLACED IN CONTRACT 60Y00.

**CCTV CAMERAS  
 IK-0G & IK-0H  
 (PUMP STATION #5)**

ITS-86



D160Y00-shr-ITS-86	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

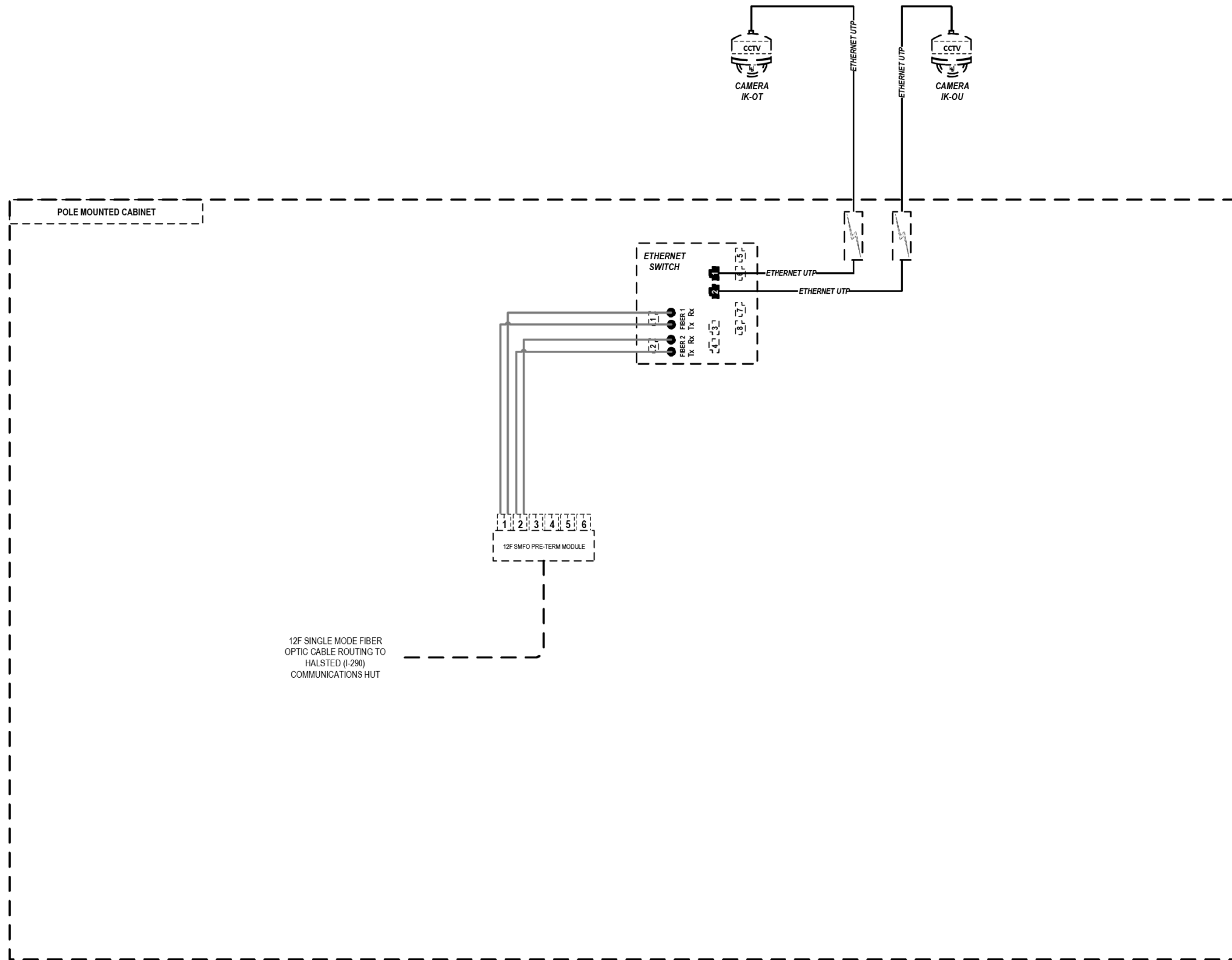
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERAS IK-0G & IK-0H (PUMP STATION #5)**

SCALE: N.T.S SHEET 86 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	229
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase 1\1000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-87



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 60Y00**  
 CCTV CAMERAS, CCTV CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS. CONTRACT 60Y00 TO RELOCATE 12 SMF LATERAL CONNECTION FROM OLD HALSTED (I-290) COMMUNICATIONS HUT TO NEW HALSTED (I-290) COMMUNICATIONS HUT.

## CCTV CAMERAS IK-0T & IK-0U (HALSTED STREET)

ITS-87



D160Y00-shr-ITS-87  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

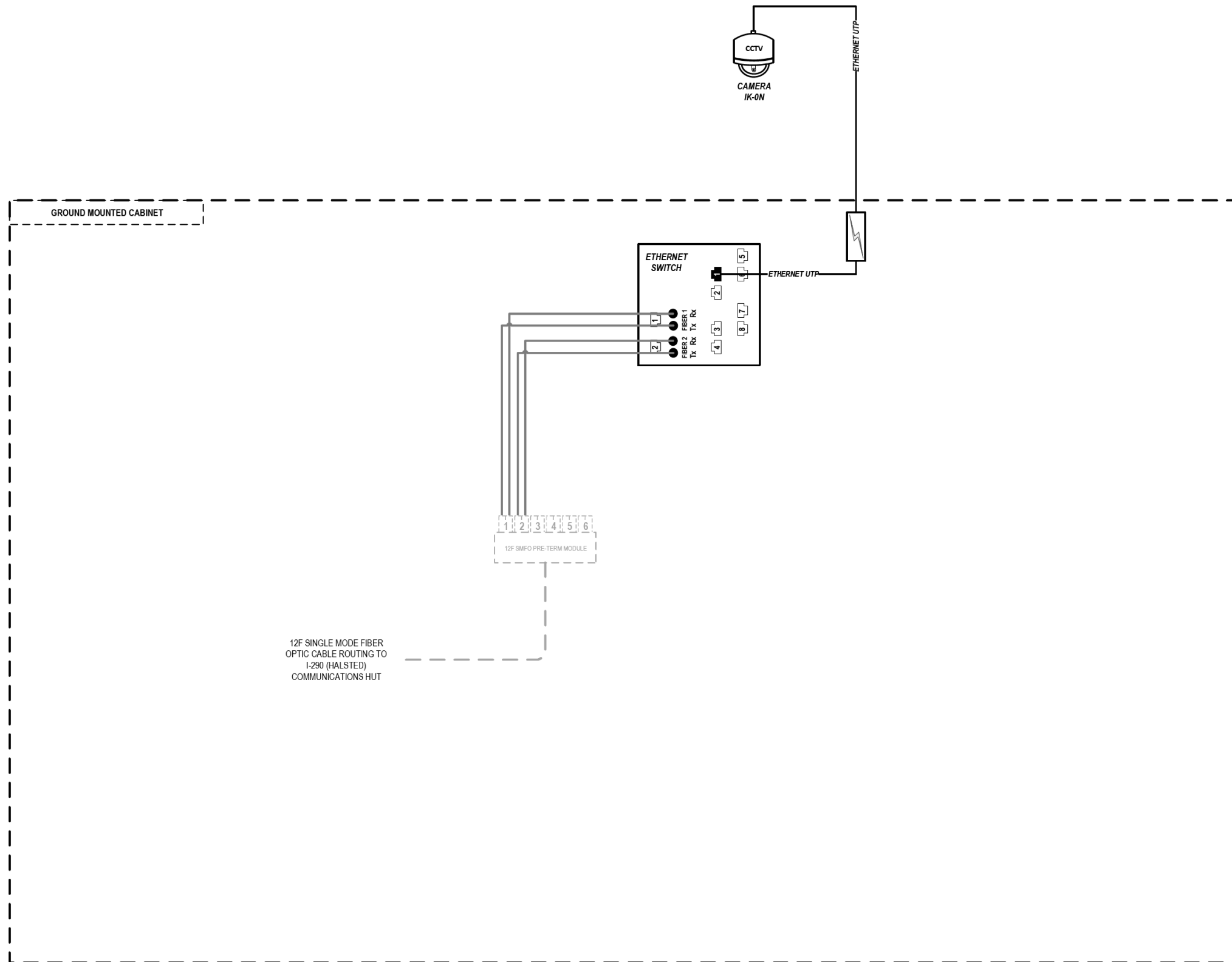
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
 CCTV CAMERAS IK-0U & IK-0T (HALSTED STREET)

SCALE: N.T.S SHEET 87 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	230
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle\_Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-88



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
**CONTRACT 60Y00**  
 ANALOG CCTV CAMERA, ITS CABINET, ITS CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS. EXISTING CCTV CAMERA IK-ON AND RELATED CABINET EQUIPMENT TO BE REPLACED IN CONTRACT 60Y00.

## ITS CABINET G3/ CCTV CAMERA IK-ON (RACINE STREET)

ITS-88



D160Y00-shr-ITS-88  
 USER NAME = myersc  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/24/2020

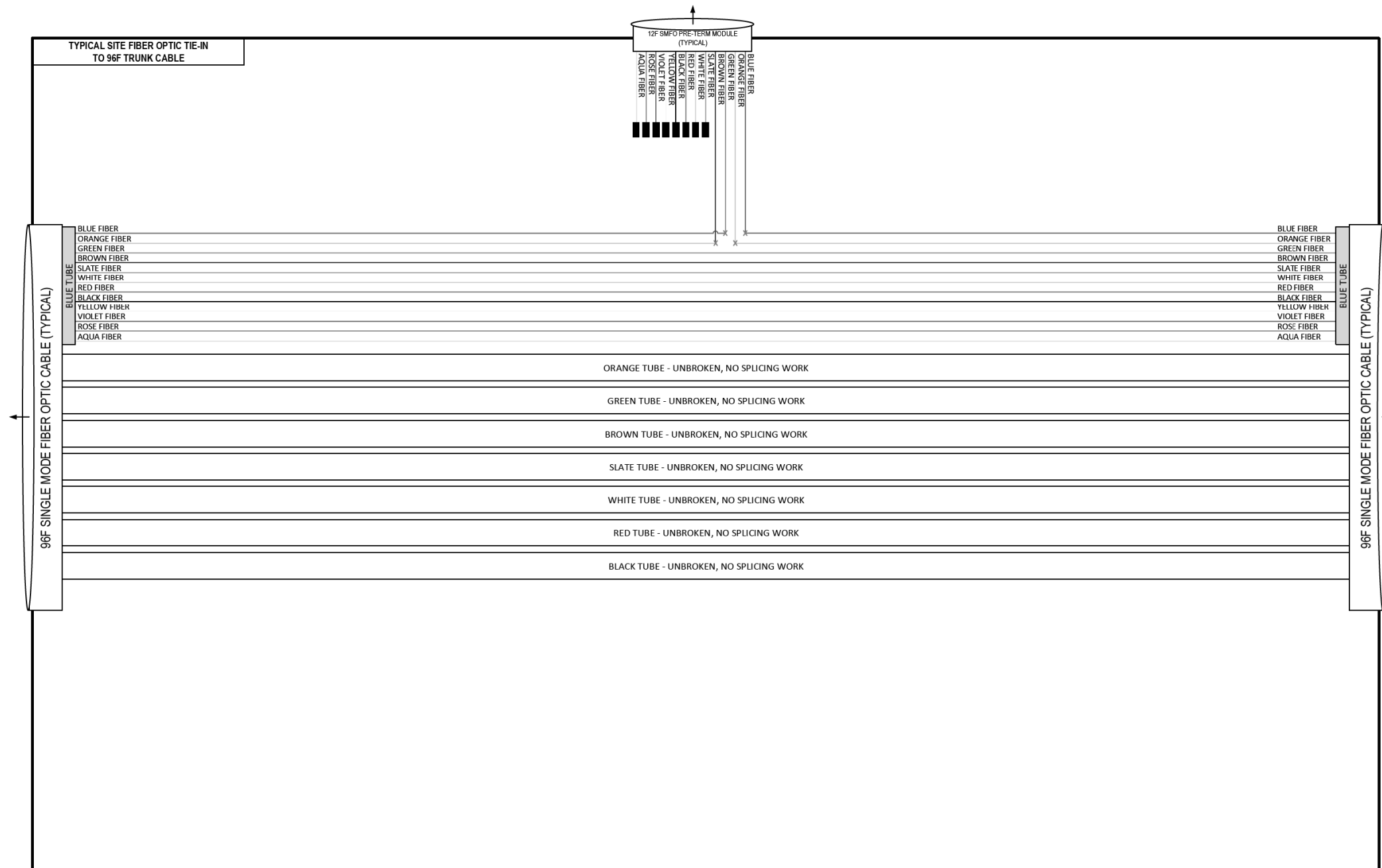
DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 1/29/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
 ITS CABINET G3/CCTV CAMERA IK-ON (RACINE STREET)  
 SCALE: N.T.S SHEET 88 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	231
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

FILE PATH = p:\aecom\ms-ansi\ecommon\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-89



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
 CONTRACT 62A76, 62A77, 60Y00  
 TYPICAL 12 SMF LATERAL TO TRUNKLINE SPLICE DIAGRAM. REFER TO INDIVIDUAL SITE SHEET STAGING OF WORK STATEMENTS, APPLIES TO EACH CONTRACT WHERE SHOWN.

## LATERAL FIBER OPTIC SPLICE, 12 SMF TO 96 SMF (TYPICAL)

ITS-89



D160Y00-shr-ITS-89	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

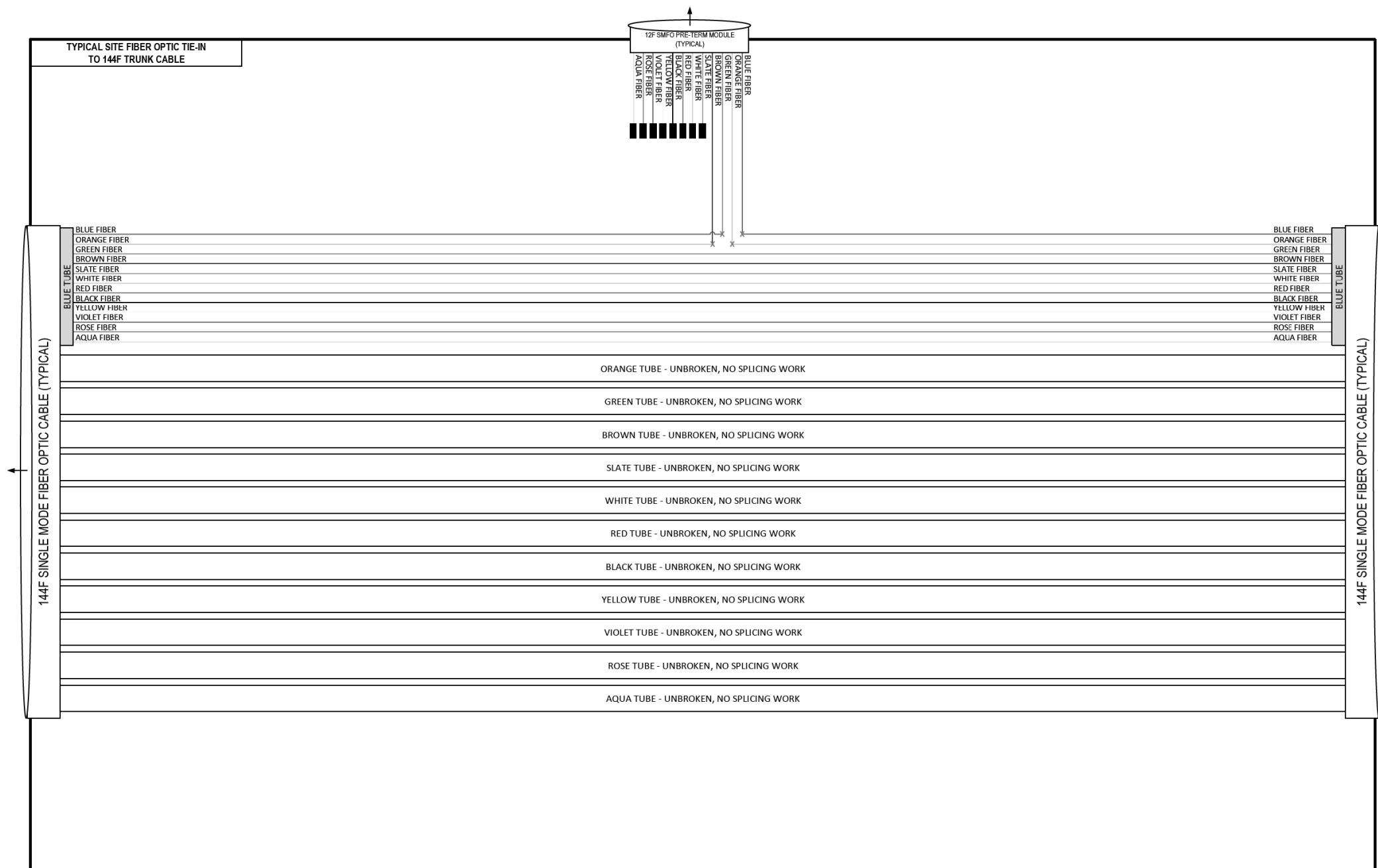
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
 LATERAL FIBER OPTIC SPLICE, 12 SMF TO 96 SMF (TYPICAL)  
 SCALE: N.T.S SHEET 89 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	232
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	



FILE PATH = p:\aecom\ma-nv\sl\ecommon\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-90



### LEGEND

- E238.2D DEVICE IDENTIFIER
- WIRELESS VEHICLE DETECTION SYSTEM
- EXISTING WIRELESS VEHICLE DETECTION SYSTEM
- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC JUMPER, SINGLE MODE
- FIBER OPTIC PIGTAIL, SINGLE MODE
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FIBER OPTIC FUSION SPLICE
- FIBER PATCH PANEL
- SURGE SUPPRESSION

NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

**STAGING OF WORK:**  
 CONTRACT 62A76, 62A77, 60Y00  
 TYPICAL 12 SMF LATERAL TO TRUNKLINE SPLICE DIAGRAM. REFER TO INDIVIDUAL SITE SHEET STAGING OF WORK STATEMENTS, APPLIES TO EACH CONTRACT WHERE SHOWN.

## LATERAL FIBER OPTIC SPLICE, 12 SMF TO 144 SMF (TYPICAL)

ITS-90



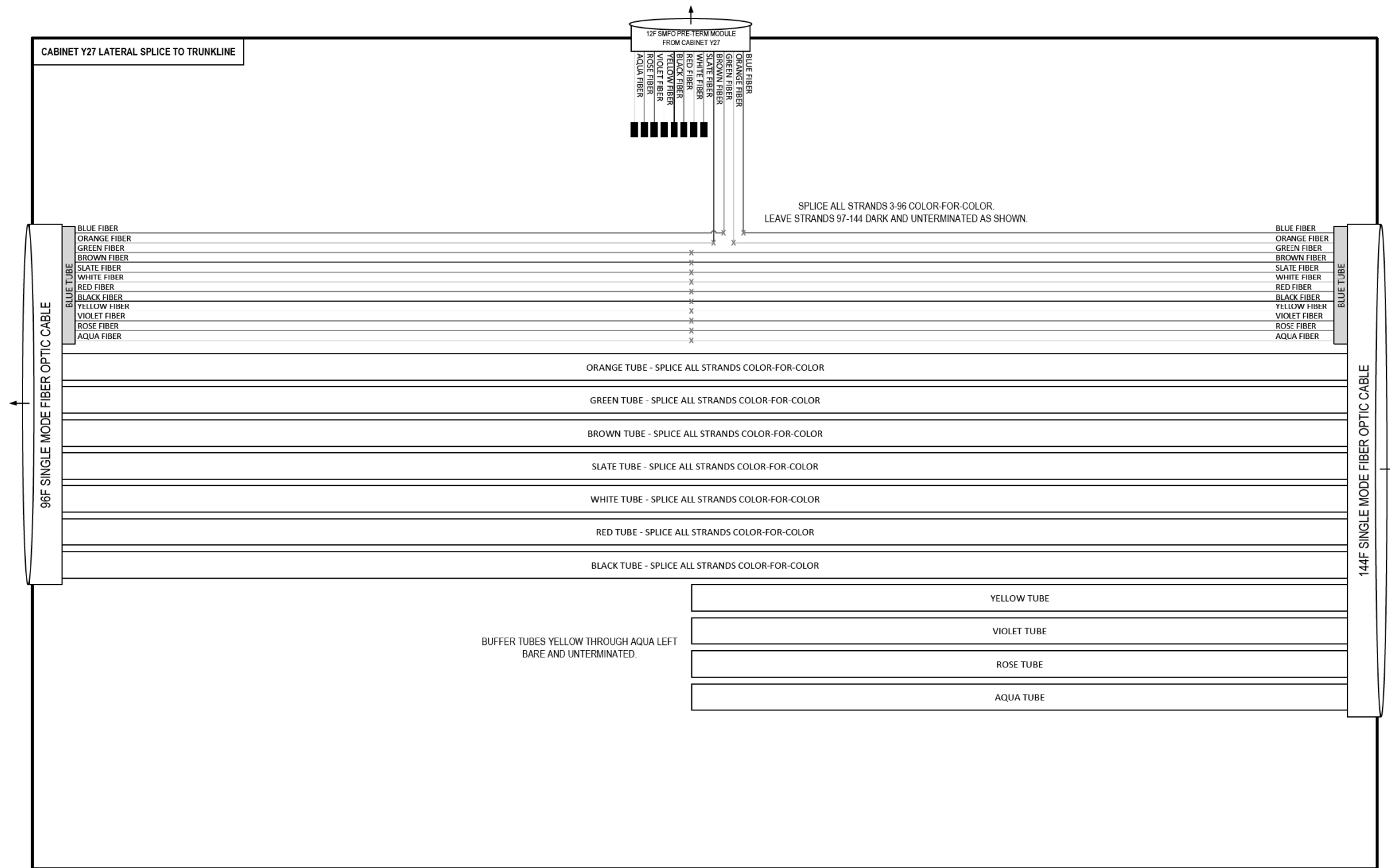
D160Y00-shr-ITS-90	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC			
LATERAL FIBER OPTIC SPLICE, 12 SMF TO 144 SMF (TYPICAL)			
SCALE: N.T.S	SHEET 90 OF 102 SHEETS	STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	233
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\aecom\na-ans\leccommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase\_1\000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-91



## MAINLINE FIBER OPTIC SPLICE, RANDOLPH STREET

ITS-91



D160Y00-shr-ITS-91  
USER NAME = myersc  
PLOT SCALE = 100.0000' / in.  
PLOT DATE = 1/24/2020

DESIGNED - PTJ  
DRAWN - CAM  
CHECKED - MJL  
DATE - 1/29/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC  
MAINLINE FIBER OPTIC SPLICE, RANDOLPH STREET

SCALE: N.T.S. SHEET 91 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	234
CONTRACT NO. 60Y00				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\aecom\ms-ansi\ecomm\line\local\CDM\_DS02\_IL\000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160\90-ht-ITS-92-102

DISTRIBUTION FIBER ASSIGNMENTS				ORIGINATION	HALSTED COMMUNICATION HUT							
DISTRIBUTION CABLE DESIGNATION		DCF-144 STRAND NORTH		DESTINATION	BUILDING "A"							
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	
BLUE	Blue	1	IMC MiniMac Media Converter to TSC REVLAC	SLATE	Blue	49	To Nordic from Com Center ReGen Switch 1, Port 9	YELLOW	Blue	97	DARK	
	Orange	2	IMC MiniMac Media Converter to TSC REVLAC		Orange	50			Orange	98	DARK	
	Green	3	Kennedy cams 1,2,3,4 to TSC		Green	51	To I-55 Weigh Station From Com Center ReGen Switch 1, Port 7		Green	99	DARK	
	Brown	4	DARK		Brown	52			Brown	100	DARK	
	Slate	5	IDOT LAN to JRTC to DIHQ		Slate	53	To I-80 Stateline from Com Center ReGen Switch 1, Port 5		Slate	101	DARK	
	White	6	IDOT LAN to JRTC to DIHQ		White	54			White	102	DARK	
	Red	7	Addison CCTV Controls		Red	55	To Nordic from TSC ReGen Switch 2, Port 4		Red	103	DARK	
	Black	8	DARK		Black	56			Black	104	DARK	
	Yellow	9	DARK		Yellow	57	To Halsted from TSC (West Route) Switch 2, Port 2		Yellow	105	DARK	
	Violet	0	DARK		Violet	58			Violet	106	DARK	
	Rose	11	DARK		Rose	59	To River Rd. from TSC		Rose	107	DARK	
Aqua	2	DARK	Aqua	60		Aqua	108	DARK				
ORANGE	Blue	13	DARK	WHITE	Blue	61	To I-80/I-57 from Com Center	VIOLET	Blue	109	DARK	
	Orange	14	DARK		Orange	62			Orange	110	DARK	
	Green	15	DARK		Green	63	To Hillside from Com Center		Green	111	DARK	
	Brown	16	DARK		Brown	64			Brown	112	DARK	
	Slate	17	DARK		Slate	65	To Bldg E from Com Center		Slate	113	DARK	
	White	18	DARK		White	66			White	114	DARK	
	Red	19	DARK		Red	67	To Bldg A from Com Center		Red	115	DARK	
	Black	20	DARK		Black	68			Black	116	DARK	
	Yellow	21	DARK		Yellow	69	To I-55 from Com Center		Yellow	117	DARK	
	Violet	22	DARK		Violet	70			Violet	118	DARK	
	Rose	23	DARK		Rose	71	To Parnell from Com Center		Rose	119	DARK	
Aqua	24	DARK	Aqua	72		Aqua	120	DARK				
GREEN	Blue	25	To Com Center from TSC	RED	Blue	73	To Halsted from Com Center Switch 1, Port 1	ROSE	Blue	121	DARK	
	Orange	26			Orange	74			Orange	122	DARK	
	Green	27	To Com Center from TSC		Green	75	To River Rd. from Com Center ReGen Switch 1, Port 12		Green	123	DARK	
	Brown	28			Brown	76			Brown	124	DARK	
	Slate	29	To Bldg E from TSC		Slate	77	Kennedy Video to I-55 Hut Cisco 3750 Port G2 via Building A		Slate	125	DARK	
	White	30			White	78	Kennedy Video to I-55 Hut Cisco 3750 Port G2 via Building A		White	126	DARK	
	Red	31	IMUX 2000 Edens T1 Building E via Building A		Red	79	DARK		Red	127	DARK	
	Black	32			Black	80	DARK		Black	128	DARK	
	Yellow	33	To Hillside from TSC (East Route) ReGen Switch 2, Port 2		Yellow	81	Building A to I-55 Hut OEMC TX		Yellow	129	DARK	
	Violet	34			Violet	82	Building A to I-55 Hut OEMC RX		Violet	130	DARK	
	Rose	35	To I-80/I-355 from Com Center		Rose	83	Building A to TSC OEMC TX		Rose	131	DARK	
Aqua	36		Aqua	84	Building A to TSC OEMC RX	Aqua	132	DARK				
BROWN	Blue	37	PS 5 to Bid A PS SCADA	BLACK	Blue	85	DARK	AQUA	Blue	133	DARK	
	Orange	38	PS 5 to Bid A PS SCADA		Orange	86	DARK		Orange	134	DARK	
	Green	39	To Bldg A from Com center		Green	87	DARK		Green	135	DARK	
	Brown	40			Brown	88	DARK		Brown	136	DARK	
	Slate	41	DARK		Slate	89	REVLAC Data to TSC Hirschmann		Slate	137	DARK	
	White	42	DARK		White	90	REVLAC Data to TSC Hirschmann		White	138	DARK	
	Red	43	DARK		Red	91	DARK		Red	139	DARK	
	Black	44	DARK		Black	92	DARK		Black	140	DARK	
	Yellow	45	DARK		Yellow	93	DARK		Yellow	141	DARK	
	Violet	46	DARK		Violet	94	EMCMS Backup to TSC		Violet	142	DARK	
	Rose	47	DARK		Rose	95	EMCMS Backup to TSC		Rose	143	DARK	
Aqua	48	DARK	Aqua	96	DARK	Aqua	144	DARK				

**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-92



0160Y00-ht-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS**  
**144 STRAND - KENNEDY**

SCALE: N.T.S SHEET 92 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	235
CONTRACT NO. 60Y00				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\aecom\m-nw\si\ecomm\local\ecom\DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase\_1\1000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\10160100-ht-ITS-92-102

DISTRIBUTION FIBER ASSIGNMENTS				ORIGINATION				HALSTED COMMUNICATION HUT			
DISTRIBUTION CABLE DESIGNATION			DCF-144 STRAND SOUTH	DESTINATION			I-55 COMMUNICATION HUT				
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT
BLUE	Blue	1	1	SLATE	Blue	1	49	YELLOW	Blue	1	97
	Orange	2	2		Orange	2	50		Orange	2	98
	Green	3	3		Green	3	51		Green	3	99
	Brown	4	4		Brown	4	52		Brown	4	100
	Slate	5	5		Slate	5	53		Slate	5	101
	White	6	6		White	6	54		White	6	102
	Red	7	7		Red	7	55		Red	7	103
	Black	8	8		Black	8	56		Black	8	104
	Yellow	9	9		Yellow	9	57		Yellow	9	105
	Violet	0	10		Violet	0	58		Violet	0	106
	Rose	11	11		Rose	11	59		Rose	11	107
Aqua	2	12	Aqua	2	60	Aqua	2	108			
ORANGE	Blue	1	13	WHITE	Blue	1	61	VIOLET	Blue	1	109
	Orange	2	14		Orange	2	62		Orange	2	110
	Green	3	15		Green	3	63		Green	3	111
	Brown	4	16		Brown	4	64		Brown	4	112
	Slate	5	17		Slate	5	65		Slate	5	113
	White	6	18		White	6	66		White	6	114
	Red	7	19		Red	7	67		Red	7	115
	Black	8	20		Black	8	68		Black	8	116
	Yellow	9	21		Yellow	9	69		Yellow	9	117
	Violet	0	22		Violet	0	70		Violet	0	118
	Rose	11	23		Rose	11	71		Rose	11	119
Aqua	2	24	Aqua	2	72	Aqua	2	120			
GREEN	Blue	1	25	RED	Blue	1	73	ROSE	Blue	1	121
	Orange	2	26		Orange	2	74		Orange	2	122
	Green	3	27		Green	3	75		Green	3	123
	Brown	4	28		Brown	4	76		Brown	4	124
	Slate	5	29		Slate	5	77		Slate	5	125
	White	6	30		White	6	78		White	6	126
	Red	7	31		Red	7	79		Red	7	127
	Black	8	32		Black	8	80		Black	8	128
	Yellow	9	33		Yellow	9	81		Yellow	9	129
	Violet	0	34		Violet	0	82		Violet	0	130
	Rose	11	35		Rose	11	83		Rose	11	131
Aqua	2	36	Aqua	2	84	Aqua	2	132			
BROWN	Blue	1	37	BLACK	Blue	1	85	AQUA	Blue	1	133
	Orange	2	38		Orange	2	86		Orange	2	134
	Green	3	39		Green	3	87		Green	3	135
	Brown	4	40		Brown	4	88		Brown	4	136
	Slate	5	41		Slate	5	89		Slate	5	137
	White	6	42		White	6	90		White	6	138
	Red	7	43		Red	7	91		Red	7	139
	Black	8	44		Black	8	92		Black	8	140
	Yellow	9	45		Yellow	9	93		Yellow	9	141
	Violet	0	46		Violet	0	94		Violet	0	142
	Rose	11	47		Rose	11	95		Rose	11	143
Aqua	2	48	Aqua	2	96	Aqua	2	144			

**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-93



D160Y00-ht-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS**  
**144 STRAND - DAN RYAN**

SCALE: N.T.S SHEET 93 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	236
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\aecom\ms-ansi\ecommon\local\ecom\0502\_mn\Documents\01\_Americas\Transportation\60269938\_Circle Phase\_1\000\_CAD\006\_Roadway\_Sheets\60700\_Contract\0160700\_sht-ITS-92-102

DISTRIBUTION FIBER ASSIGNMENTS				ORIGINATION	HALSTED COMMUNICATION HUT			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	I-55 COMMUNICATION HUT			
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	
BLUE	Blue	1	TSC Panel Port 9 to Bishop Ford T1 TX	SLATE	Blue	49	To I-80/I-57 from TSC	
	Orange	2	TSC Panel Port 10 to Bishop Ford T1 RX		Orange	50		
	Green	3	DARK		Green	51	To Parnell from TSC	
	Brown	4	DARK		Brown	52		
	Slate	5	DARK		Slate	53	To I-55 Weighstation from TSC	
	White	6	DARK		White	54		
	Red	7	DARK		Red	55	To Parnell from Com Center	
	Black	8	DARK		Black	56		
	Yellow	9	DARK		Yellow	57	To I-55 Weighstation from Com Center	
	Violet	0	DARK		Violet	58		
	Rose	11	DARK		Rose	59	To I-80 Stateline from Com Center	
	Aqua	2	DARK		Aqua	60		
ORANGE	Blue	13	DARK	WHITE	Blue	61	To I-80/I-355 from TSC	
	Orange	14	DARK		Orange	62		
	Green	15	To I-57 T1 Connection		Green	63	To I-80 Stateline from TSC	
	Brown	16			Brown	64		
	Slate	17	DARK		Slate	65	To Parnell from Com Center	
	White	18	DARK		White	66		
	Red	19	I55 Survalience to MLK IMUC 2000 Chassis		Red	67	To I-80/I-57 from Com center	
	Black	20	I55 Survalience to MLK IMUC 2000 Chassis		Black	68		
	Yellow	21	DARK		Yellow	69	To I-55 from Com Center	
	Violet	22	DARK		Violet	70		
	Rose	23	DARK		Rose	71	To I-55 from Com Center (West Route)	
	Aqua	24	DARK		Aqua	72		
GREEN	Blue	25	DARK	RED	Blue	73	OEMC GarrettComm	
	Orange	26	DARK		Orange	74	OEMC GarrettComm	
	Green	27	DARK		Green	75	OEMC GarrettComm	
	Brown	28	DARK		Brown	76	OEMC GarrettComm	
	Slate	29	DARK		Slate	77	Kennedy Video Integration	
	White	30	DARK		White	78	Kennedy Video Integration	
	Red	31	DARK		Red	79	To I-80/I-355 from Com Center	
	Black	32	DARK		Black	80		
	Yellow	33	DARK		Yellow	81	DARK	
	Violet	34	DARK		Violet	82	DARK	
	Rose	35	To I-55 from TSC		Rose	83	I55 to Building A Fiber Jumper	
	Aqua	36			Aqua	84	I55 to Building A Fiber Jumper	
BROWN	Blue	37	DARK	BLACK	Blue	85	DARK	
	Orange	38	DARK		Orange	86	DARK	
	Green	39	FDP 1 Pump House Panel Port 41		Green	87	DARK	
	Brown	40	FDP 1 Pump House Panel Port 42		Brown	88	DARK	
	Slate	41	DARK		Slate	89	DARK	
	White	42	DARK		White	90	DARK	
	Red	43	DARK		Red	91	DARK	
	Black	44	DARK		Black	92	DARK	
	Yellow	45	Cisco Catalyst 3750 Port 3 UIC AI Lab Room 3030 ERF TX		Yellow	93	DARK	
	Violet	46	Cisco Catalyst 3750 Port 3 UIC AI Lab Room 3030 ERF RX		Violet	94	DARK	
	Rose	47	DARK		Rose	95	DARK	
	Aqua	48	96F TSC Panel Port 54 to Hillside Hut Polk St. AIS CCTV DROA		Aqua	96	DARK	

**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-94



0160700-sht-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS**  
**96 STRAND - DAN RYAN**

SCALE: N.T.S SHEET 94 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	237
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\aecom\ms-ansi\seccion\linealocal\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-ht-ITS-92-102

DISTRIBUTION FIBER ASSIGNMENTS				ORIGINATION	HALSTED COMMUNICATION HUT			
DISTRIBUTION CABLE DESIGNATION		DCF-96 STRAND WEST		DESTINATION	TSC			
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	
BLUE	Blue	1	To Computer Rm Panel 3 Port 1 ComNet Data Redundancy	SLATE	Blue	49	To I-80/I-57 from TSC	
	Orange	2	To Computer Rm Panel 3 Port 2 ComNet Data Redundancy		Orange	50		
	Green	3	To Computer Rm Panel 3 Port 3 ComNet Data Redundancy		Green	51	To Parnell from TSC	
	Brown	4	To Computer Rm Panel 3 Port 4 ComNet Data Redundancy		Brown	52		
	Slate	5	DIHQ TO JRTC IDOT LAN		Slate	53	To I-55 Weighstation from TSC	
	White	6	DIHQ TO JRTC IDOT LAN		White	54		
	Red	7	MiniMac Media Converter to DIHQ EMCMS Network TX		Red	55	To Nordic from TSC ReGen Switch 2, Port 3	
	Black	8	MiniMac Media Converter to DIHQ EMCMS Network RX		Black	56		
	Yellow	9	Bishop Ford Stony Island T1 Chassis TX		Yellow	57	From TSC (Halsted) Switch 1, Port 2	
	Violet	0	Bishop Ford Stony Island T1 Chassis RX		Violet	58		
	Rose	11	To MiniMc Media Converter Port TX REVLAC Alarm Screens Bldg A to TSC		Rose	59	To River Rd. from TSC	
	Aqua	2	To MiniMc Media Converter Port RX REVLAC Alarm Screens Bldg A to TSC		Aqua	60		
ORANGE	Blue	13	To Computer Rm 96F Port 13 to IFS Receiver/Transmitter	WHITE	Blue	61	To I-80/I-355 from TSC	
	Orange	14	DARK		Orange	62		
	Green	15	To I-57 IMUX2000 Port RX		Green	63	To I-80 Stateline from TSC	
	Brown	16	To I-57 IMUX2000 Port TX		Brown	64		
	Slate	17	To Computer Rm Panel 3 Port 59 GCM Gateway to Halsted Hut East		Slate	65	To Bldg E from Com Center	
	White	18	To Computer Rm Panel 3 Port 60 GCM Gateway to Halsted Hut East		White	66		
	Red	19	To I-55 SLSD IMUX T1 Chassis Port TX		Red	67	To Bldg A from Com Center	
	Black	20	To I-55 SLSD IMUX T1 Chassis Port RX		Black	68		
	Yellow	21	To Kennedy IMUX2000 Chassis Port RX		Yellow	69	To Hillside from Com Center	
	Violet	22	To Kennedy IMUX2000 Chassis Port TX		Violet	70		
	Rose	23	Jumpered to Edens IMUX T1 Chassis TX Telemetry Wilson Ave to Chantilly		Rose	71	To I-55 from ComCenter	
	Aqua	24	Jumpered to Edens IMUX T1 Chassis RX Telemetry Wilson Ave to Chantilly		Aqua	72		
GREEN	Blue	25	To Com Center from TSC	RED	Blue	73	To Computer Rm Panel 3 Port 65 Cisco ONS 15454 OC48 Linq East 55 Hut TX	
	Orange	26			Orange	74	To Computer Rm Panel 3 Port 66 Cisco ONS 15454 OC48 Linq East 55 Hut RX	
	Green	27	To Com Center from TSC		Green	75	To 96F PS-20 Panel Port 75 Cisco ONS 15454 OC48 Linq West TX	
	Brown	28			Brown	76	To 96F PS-20 Panel Port 76 Cisco ONS 15454 OC48 Linq West RX	
	Slate	29	To Bldg E from TSC		Slate	77	To 96F Computer Rm Port 87 IKOE CCTV 1 Jefferson St.	
	White	30			White	78	To 96F Computer Rm Port 88 IKOF CCTV 2 Jefferson St.	
	Red	31	To Bldg A from TSC		Red	79	To 96F Computer Rm Port 85 Siemens RuggedCom DMS12 TX	
	Black	32			Black	80	To 96F Computer Rm Port 86 Seimens RuggedCom DMS12 RX	
	Yellow	33	To Hillside from TSC (east Route) ReGen Switch 2, Port 1		Yellow	81	To Parnell from Com Center ReGen Switch 1, Port 3	
	Violet	34			Violet	82		
	Rose	35	To I-55 Hut from TSC		Rose	83	To 96F PS-20 Panel Port 85 OEMC Cisco Switch ?	
	Aqua	36			Aqua	84	To 96F PS-20 Panel Port 86 OEMC Cisco Switch ?	
BROWN	Blue	37	To 96F PS-20 Panel Port 37 Pump Station Scada	BLACK	Blue	85	To Computer Rm Port 79 IKOC IFS 7 TransCeiver	
	Orange	38	To 96F PS-20 Panel Port 38 Pump Station Scada		Orange	86	To Computer Rm Port 80 IKOD IFS 8 TransCeiver	
	Green	39	To 96F PS-20 Panel Port 39 Pump Station Scada		Green	87	To Nordic from Com Center ReGen Switch 1, Port 10	
	Brown	40	To 96F PS-20 Panel Port 40 Pump Station Scada		Brown	88		
	Slate	41	To Computer Rm Panel 3 Port 49 Addison CCTV and Gate Control		Slate	89	To 96F Halsted Hut Port 89 REVLAC Data Hirschmann Media Converter	
	White	42	POLK AIS CAMERA DROA		White	90	To 96F Halsted Hut Port 90 REVLAC Data Hirschmann Media Converter	
	Red	43	To Computer Rm Port 69 IK09A DesPlaines CCTV TX		Red	91	To 96F PS-20 Panel Port 83 ??????	
	Black	44	To Computer Rm Port 71 IK09A DesPlaines CCTV TX		Black	92	To Halsted from Com Center Switch 2, Port 1	
	Yellow	45	To Computer Rm Port 70 IFS IK0I Pump Station 5 CCTV TX/RX		Yellow	93		
	Violet	46	To Computer Rm Port 72 IFS IK0H Halsted Hut CCTV TX/RX		Violet	94	To River Rd from Com center ReGen Switch 1, Port 11	
	Rose	47	To Computer Rm Port 77 IK0A CCTV IFC TransCeiver		Rose	95		
	Aqua	48	To Computer Rm Port 78 IK0B CCTV IFC TransCeiver		Aqua	96	DARK	

**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-95



D160Y00-ht-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS**  
**96 STRAND - EISENHOWER**

SCALE: N.T.S SHEET 95 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	238
CONTRACT NO. 60Y00				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\aecom\m-n\si\ecommon\local\ecom\DS02\_MN\Documents\01\_Americas\Transportation\60269938\_Circle Phase\_1\000\_CAD\006\_Roadway\_Sheets\60Y00\_Contract\0160Y00-shr-ITS-92-102

DISTRIBUTION FIBER ASSIGNMENTS				ORIGINATION	HALSTED COMMUNICATION HUT			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	PUMP STATION 5			
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	
BLUE	Blue	1	DARK	SLATE	Blue	49	DARK	
	Orange	2	DARK		Orange	50	DARK	
	Green	3	DARK		Green	51	DARK	
	Brown	4	DARK		Brown	52	DARK	
	Slate	5	DARK		Slate	53	DARK	
	White	6	DARK		White	54	DARK	
	Red	7	DARK		Red	55	DARK	
	Black	8	DARK		Black	56	DARK	
	Yellow	9	DARK		Yellow	57	DARK	
	Violet	0	DARK		Violet	58	DARK	
	Rose	11	DARK		Rose	59	DARK	
	Aqua	2	DARK		Aqua	60	DARK	
ORANGE	Blue	13	PS 5 CCTV IKOI	WHITE	Blue	61	DARK	
	Orange	14	PS 5 CCTV IKOH		Orange	62	DARK	
	Green	15	PS 5 SE BridgeHouse CCTV1 IKOA		Green	63	DARK	
	Brown	16	PS 5 SE BridgeHouse CCTV2 IKOB		Brown	64	DARK	
	Slate	17	PS 5 NW BridgeHouse CCTV1 IKOC		Slate	65	DARK	
	White	18	PS 5 NW BridgeHouse CCTV2 IKOD		White	66	DARK	
	Red	19	DMS 12 Seimans Rugged Com		Red	67	DARK	
	Black	20	DMS 12 Seimans Rugged Com		Black	68	DARK	
	Yellow	21	Jefferson St CCTV1 IKOE		Yellow	69	DARK	
	Violet	22	Jefferson St CCTV2 IKOF		Violet	70	DARK	
	Rose	23	DARK		Rose	71	DARK	
	Aqua	24	DARK		Aqua	72	DARK	
GREEN	Blue	25	DARK	RED	Blue	73	DARK	
	Orange	26	DARK		Orange	74	DARK	
	Green	27	DARK		Green	75	DARK	
	Brown	28	DARK		Brown	76	DARK	
	Slate	29	DARK		Slate	77	DARK	
	White	30	DARK		White	78	DARK	
	Red	31	DARK		Red	79	DARK	
	Black	32	DARK		Black	80	DARK	
	Yellow	33	DARK		Yellow	81	DARK	
	Violet	34	DARK		Violet	82	DARK	
	Rose	35	DARK		Rose	83	DARK	
	Aqua	36	DARK		Aqua	84	DARK	
BROWN	Blue	37	PS SCADA	BLACK	Blue	85	DARK	
	Orange	38	PS SCADA		Orange	86	DARK	
	Green	39	PS SCADA		Green	87	DARK	
	Brown	40	PS SCADA		Brown	88	DARK	
	Slate	41	PS SCADA		Slate	89	DARK	
	White	42	PS SCADA		White	90	DARK	
	Red	43	PS SCADA		Red	91	DARK	
	Black	44	PS SCADA		Black	92	DARK	
	Yellow	45	DARK		Yellow	93	DARK	
	Violet	46	DARK		Violet	94	DARK	
	Rose	47	DARK		Rose	95	DARK	
	Aqua	48	DARK		Aqua	96	DARK	

**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-96



0160Y00-shr-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS**  
**96 STRAND - PUMP STATION 5**

SCALE: N.T.S SHEET 96 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	239
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\aecom\ms-ansi\local\AECOM\_DS02\_MN\Documents\01\_Americas\Transportation\60269938\_Circle Phase II\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-92-102

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	DMS-09 FIBER OPTIC TERMINATION PANEL
LCF - DMS-09		DESTINATION	144 STRAND FIBER - DAN RYAN
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
5			
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12			

NOTE: SPLICE COMPLETED BY OTHERS (CONTRACT 62A76)

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	DR-0B CCTV EQUIPMENT CABINET
LCF - DR-0B		DESTINATION	96 STRAND FIBER - DAN RYAN
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
5			
6			
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NOTE: SPLICE COMPLETED BY OTHERS (CONTRACT 62A77)

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	PUMP STATION 26 FIBER OPTIC TERMINATION PANEL
LCF - PS26		DESTINATION	96 STRAND FIBER - DAN RYAN
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
5	DARK		
6	DARK		
7	DARK		
8	DARK		
9	UIC SERVERS		
10	UIC SERVERS		
11	UIC ROOF CAMERAS		
12	UIC ROOF CAMERAS		

NOTE: SPLICE COMPLETED BY OTHERS (CONTRACT 62A76)

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET C3 FIBER OPTIC TERMINATION PANEL
LCF - C3 FOTP		DESTINATION	144 STRAND FIBER - DAN RYAN
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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NOTE: SPLICE COMPLETED BY OTHERS (CONTRACT 62A76)

**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.



D160Y00-shr-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS  
 12 STRAND LATERAL CABLE**

SCALE: N.T.S SHEET 97 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	240
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	



FILE PATH = p:\aecom\ms-ansi\ecomm\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-92-102

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET D1 FIBER OPTIC TERMINATION PANEL
LCF - D1 FOTP		DESTINATION	144 STRAND FIBER - DAN RYAN
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Z2 FIBER OPTIC TERMINATION PANEL
LCF - Z2 FOTP		DESTINATION	144 STRAND FIBER - DAN RYAN
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	IK-OS CCTV EQUIPMENT CABINET
LCF - IK-OS		DESTINATION	HALSTED COMMUNICATION HUT
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Z4 FIBER OPTIC TERMINATION PANEL
LCF - Z4 FOTP		DESTINATION	HALSTED COMMUNICATION HUT
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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NOTE: FIBER TERMINATION COMPLETED BY OTHERS (CONTRACT 62A76)

**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-98



0160Y00-shr-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS  
 12 STRAND LATERAL CABLE**

SCALE: N.T.S. SHEET 98 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	241
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y00	

FILE PATH = p:\aecom\ms-ansi\electron\local\AECOM\_D502\_MA\Documents\01\_Americas\Transportation\60269938\_Circle Phase II\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-92-102

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Z6 FIBER OPTIC TERMINATION PANEL
LCF - Z6 FOTP		DESTINATION	HALSTED COMMUNICATION HUT
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	IK-OI/IK-OJ CCTV EQUIPMENT CABINET
LCF - IK-OI/IK-OJ		DESTINATION	HALSTED COMMUNICATION HUT
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Z7 FIBER OPTIC TERMINATION PANEL
LCF - Z7 FOTP		DESTINATION	144 STRAND FIBER - KENNEDY
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Z8 FIBER OPTIC TERMINATION PANEL
LCF - Z8 FOTP		DESTINATION	144 STRAND FIBER - KENNEDY
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-99



D160Y00-shr-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS**  
**12 STRAND LATERAL CABLE**

SCALE: N.T.S SHEET 99 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	242
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\aecom\ms-ansi\ecomm\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-92-102

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Z11 FIBER OPTIC TERMINATION PANEL
LCF - Z11 FOTP		DESTINATION	144 STRAND FIBER - KENNEDY
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Y15 FIBER OPTIC TERMINATION PANEL
LCF - Y15 FOTP		DESTINATION	144 STRAND FIBER - KENNEDY
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Y19 FIBER OPTIC TERMINATION PANEL
LCF - Y19 FOTP		DESTINATION	144 STRAND FIBER - KENNEDY
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Y23 FIBER OPTIC TERMINATION PANEL
LCF - Y23 FOTP		DESTINATION	144 STRAND FIBER - KENNEDY
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-100



0160Y00-shr-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS  
 12 STRAND LATERAL CABLE**

SCALE: N.T.S. SHEET 100 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	243
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\aecom\ms-ansi\ecomm\local\AECOM\_DS02\_IL\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-92-102

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET Y27 FIBER OPTIC TERMINATION PANEL
LCF - Y27 FOTP		DESTINATION	144 STRAND FIBER - KENNEDY
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET S36 FIBER OPTIC TERMINATION PANEL
LCF - S36 FOTP		DESTINATION	96 STRAND FIBER - KENNEDY
FIBER NO	FUNCTION	CONNECTION	
1	TERMINATION PANEL		
2	TERMINATION PANEL		
3	TERMINATION PANEL		
4	TERMINATION PANEL		
5			
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12			

NOTE: SPLICE COMPLETED BY OTHERS ( CONTRACT 62A77)

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	CABINET G3
LCF - IK-ON		DESTINATION	96 STRAND FIBER - EISENHOWER
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
5			
6			
7			
8			
9			
10			
11			
12			

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	IK-OT & IK-OU CCTV EQUIPMENT CABINET
LCF - IK-OT/IK-OU		DESTINATION	HALSTED COMMUNICATION HUT
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
5			
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**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-101



0160Y00-shr-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE ASSIGNMENTS**  
**12 STRAND LATERAL CABLE**

SCALE: N.T.S SHEET 101 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	244
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\AECOM\NA-AVSI\ecommon\local\AECOM\_DS02\_NA\Documents\01\_Americas\Transportation\60269938\_Circle Phase\11\000\_CAD\006\_Roadway\Sheets\60Y00\_Contract\0160Y00-shr-ITS-92-102

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	IK-OG & IK-OH CCTV EQUIPMENT CABINET
LCF - IK-OG/IK-OH		DESTINATION	PUMP STATION #5 TERMINATION BOARD
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
5			
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7			
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10			
11			
12			

LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	IK-OA/IK-OB CCTV EQUIPMENT CABINET
LCF - IK-OA/IK-OB		DESTINATION	96F TO PUMP STATION #5
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
5			
6			
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LATERAL CABLE FIBER ASSIGNMENTS		ORIGINATION	IK-OC/IK-OD CCTV EQUIPMENT CABINET
LCF - IK-OC/IK-OD		DESTINATION	96F TO PUMP STATION #5
FIBER NO	FUNCTION	CONNECTION	
1	ETHERNET SWITCH		
2	ETHERNET SWITCH		
3	ETHERNET SWITCH		
4	ETHERNET SWITCH		
5			
6			
7			
8			
9			
10			
11			
12			

**NOTES:**

- CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.

ITS-102



D160Y00-shr-ITS-92-102  
 USER NAME = patrick.jordan  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/25/2020

DESIGNED - PTJ  
 DRAWN - CAM  
 CHECKED - MJL  
 DATE - 1/29/2020

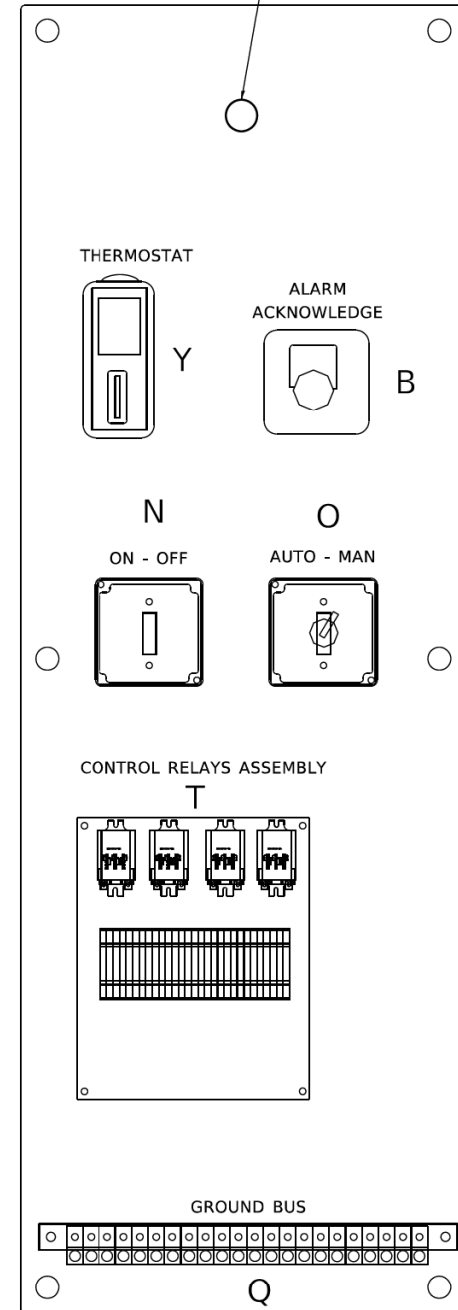
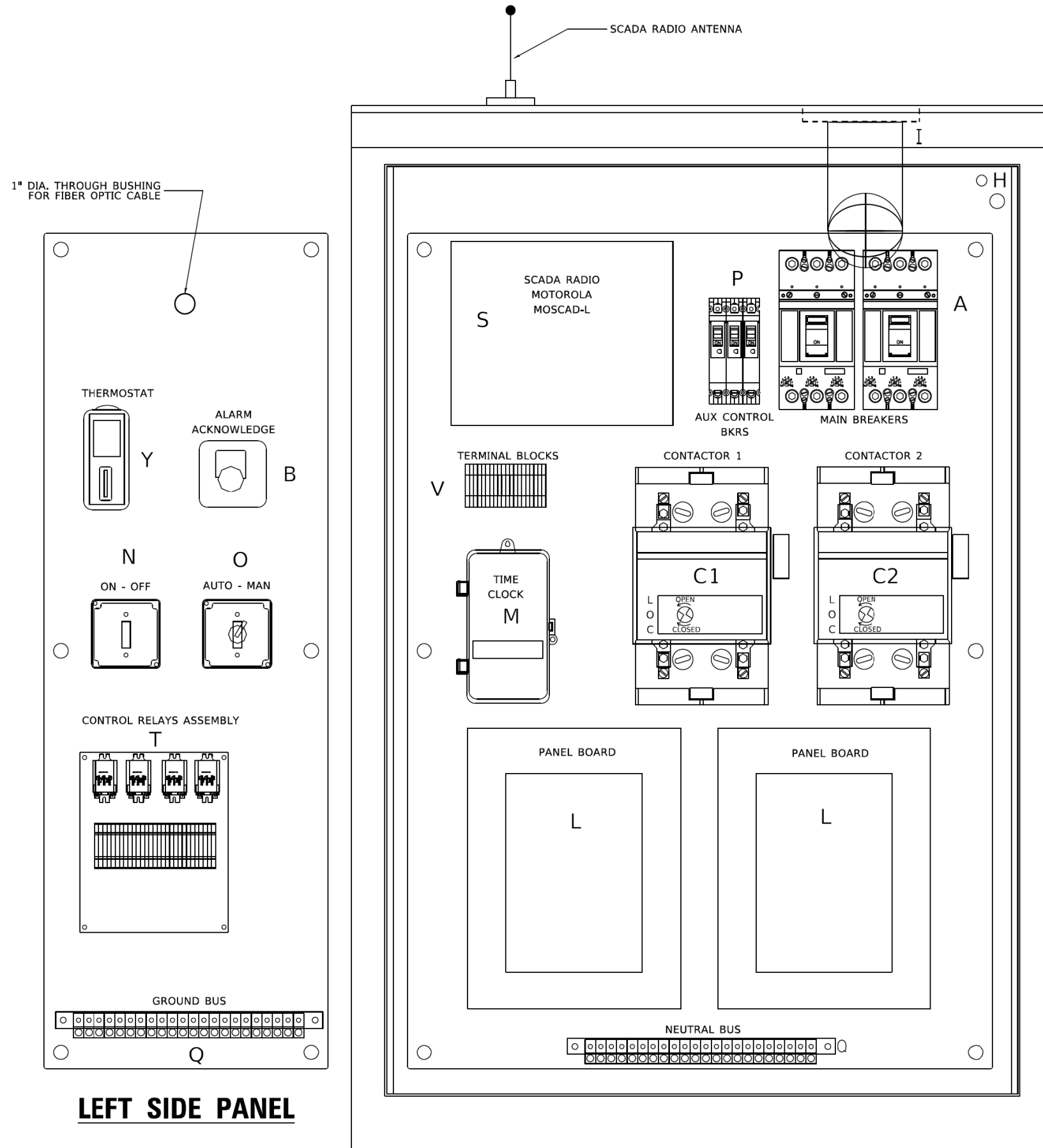
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

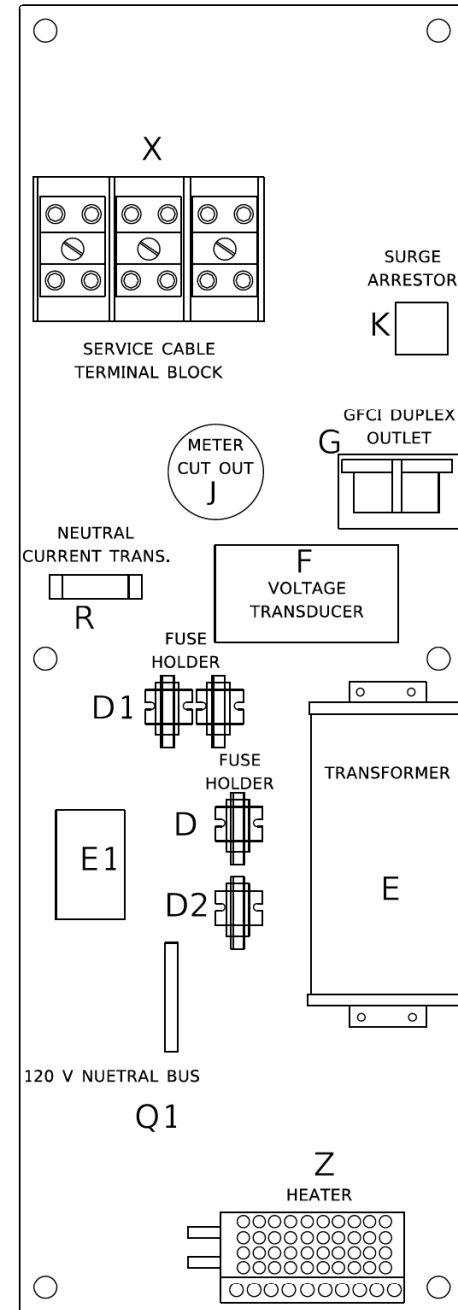
**FIBER OPTIC CABLE ASSIGNMENTS  
 12 STRAND LATERAL CABLE**

SCALE: N.T.S. SHEET 102 OF 102 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-009L	COOK	263	245
CONTRACT NO. 60Y00			ILLINOIS FED. AID PROJECT	



**LEFT SIDE PANEL**



**RIGHT SIDE PANEL**

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSUDER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSUDER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

\* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

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PLOT DATE = 1/15/2020	CHECKED -	REVISED - R. TOMSONS 03-10-10
	DATE -	REVISED - R. TOMSONS 03-29-12

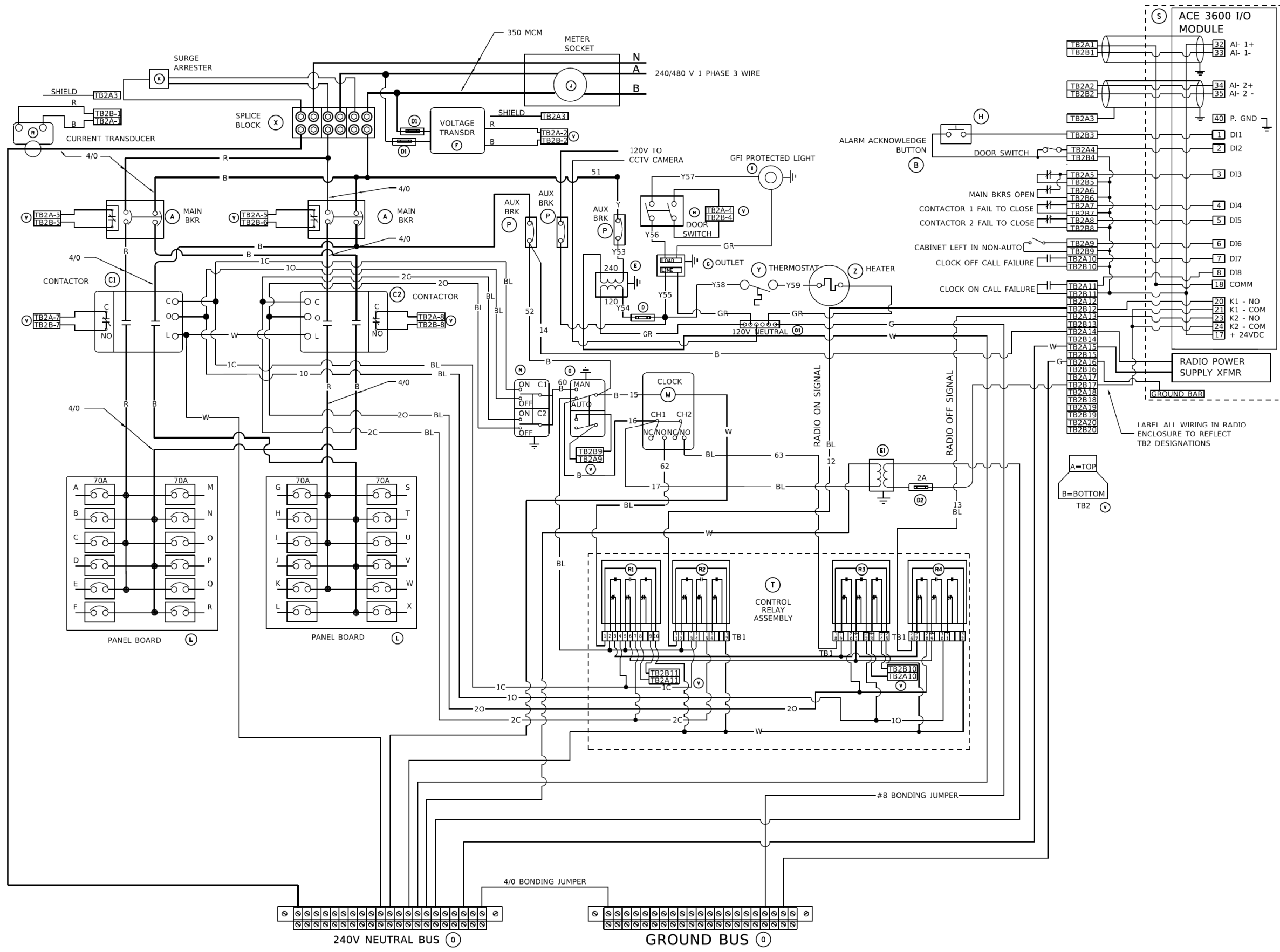
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER, BASE MOUNTED,  
480VOLT, 200AMP (DUAL) RADIO SCADA (FIBER OPTIC PROVISION)**

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A. I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-009L	COOK	263	246
BE-206		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

• 90/94/290



BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001K511BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

\* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

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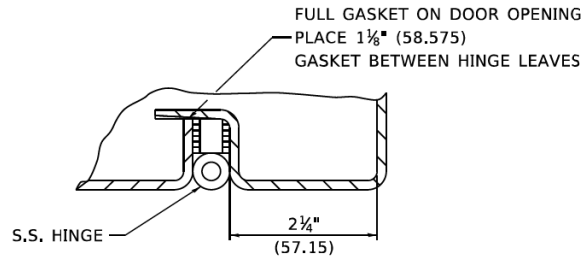
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PLOT SCALE = 100.0000" / in.	DRAWN -	REVISED - R. TOMSONS 05-11-09
PLOT DATE = 1/15/2020	CHECKED - R. TOMSONS 03-10-10	REVISED - R. TOMSONS 03-10-10
	DATE -	REVISED - R. TOMSONS 03-29-12

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

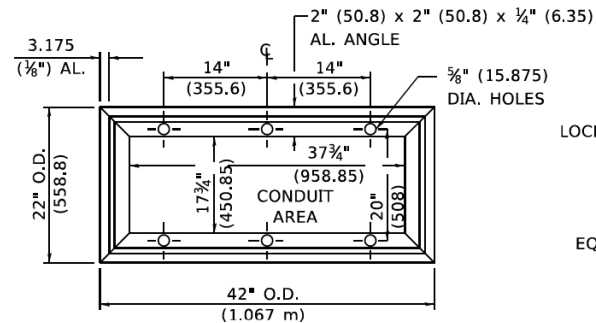
**LIGHTING CONTROLLER, BASE MOUNTED,  
480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION**

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

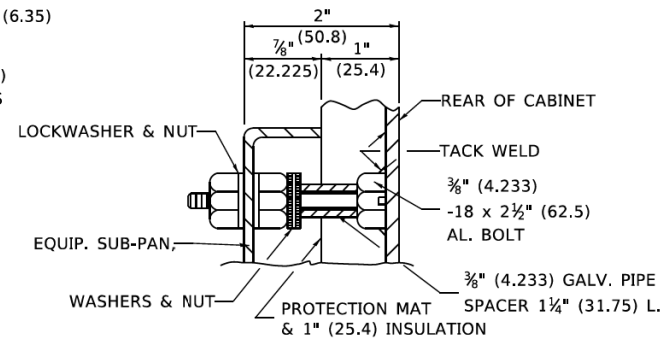
F.A. I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-009L	COOK	263	247
BE-206		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



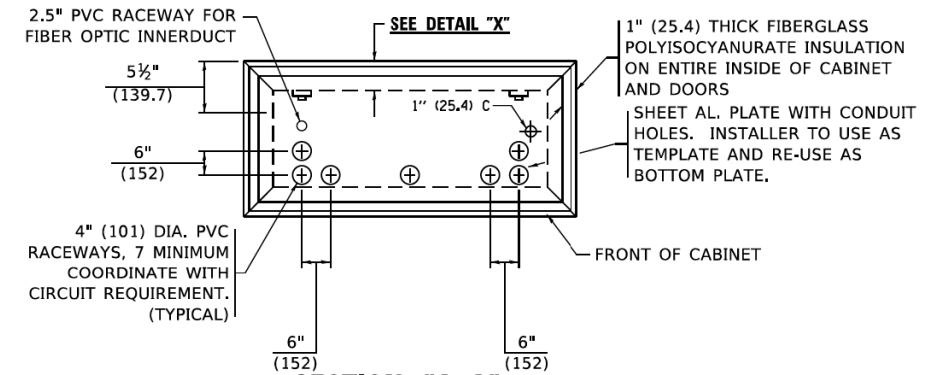
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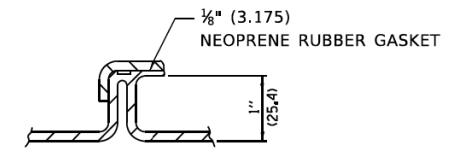
**BASE MTG. DETAIL**



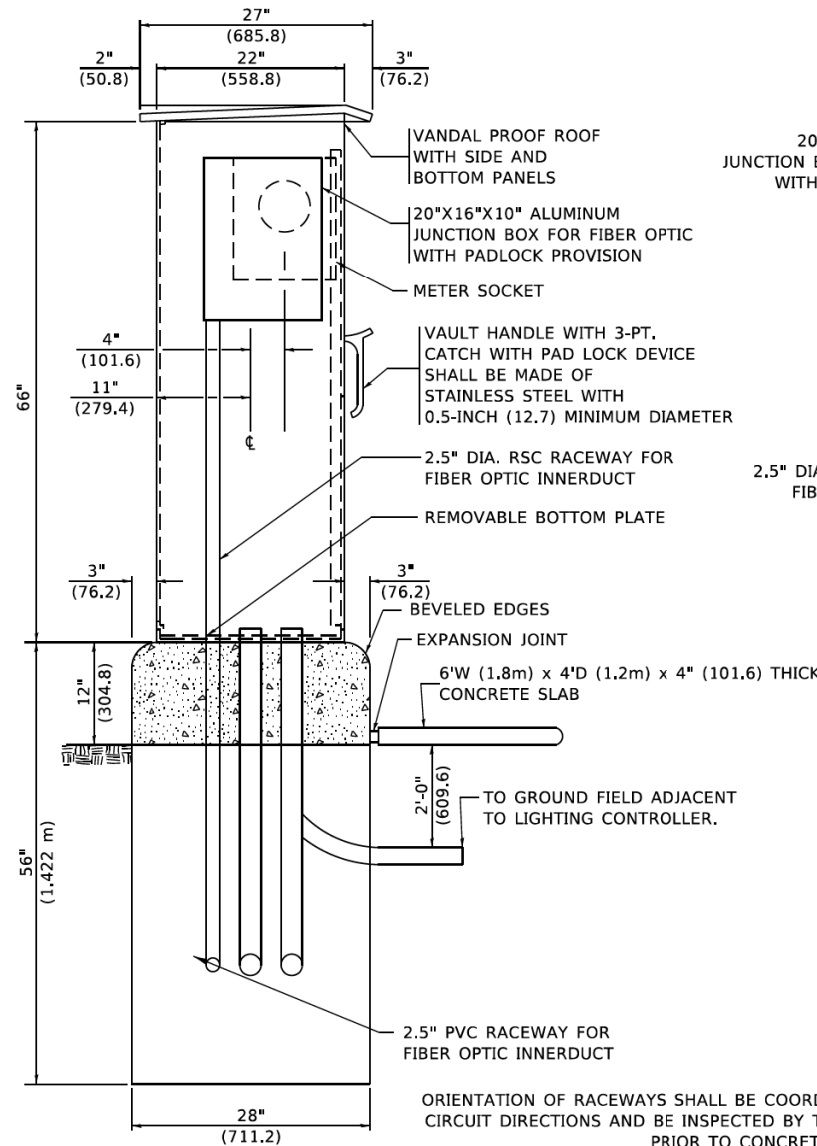
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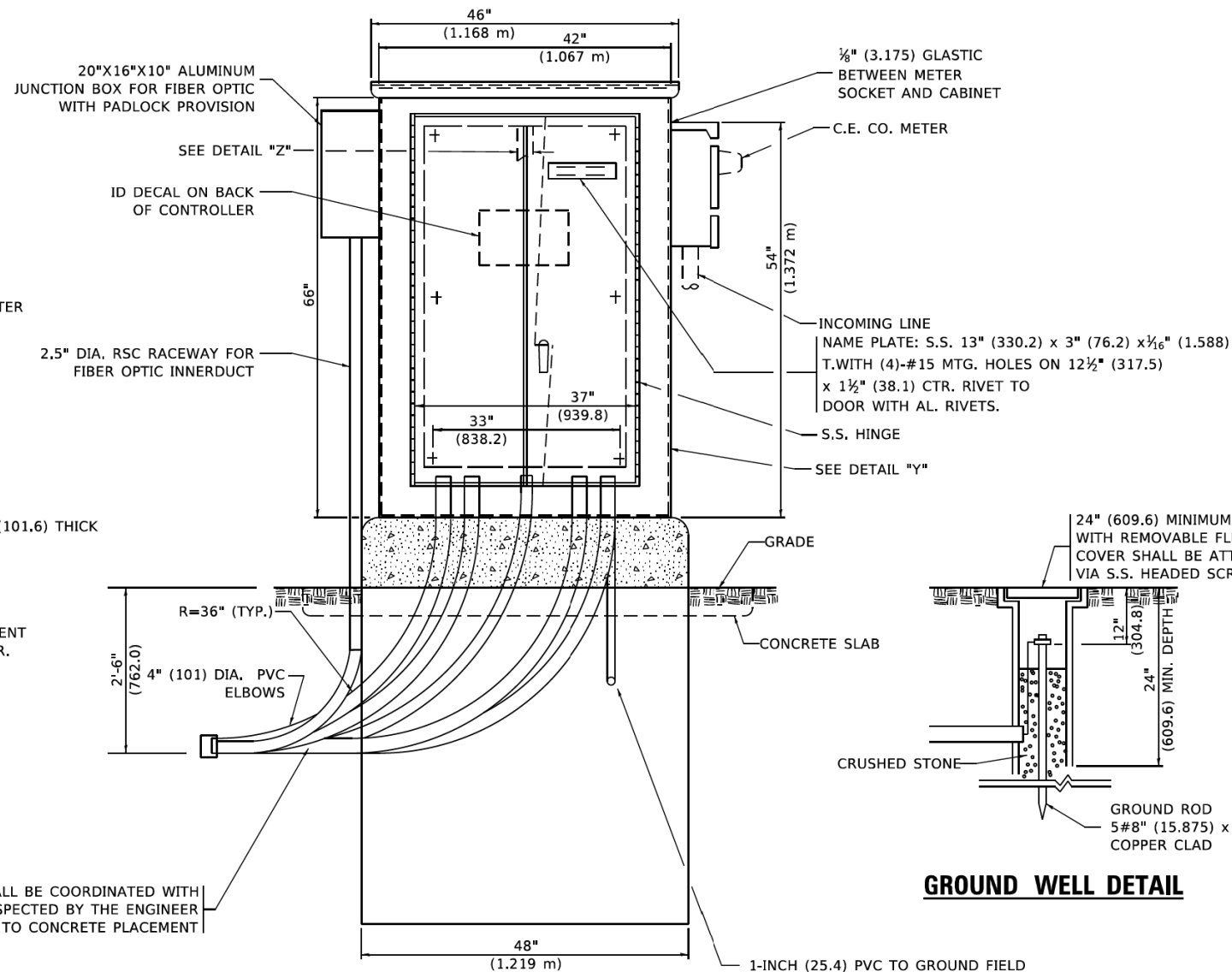
**SECTION "A-A"**



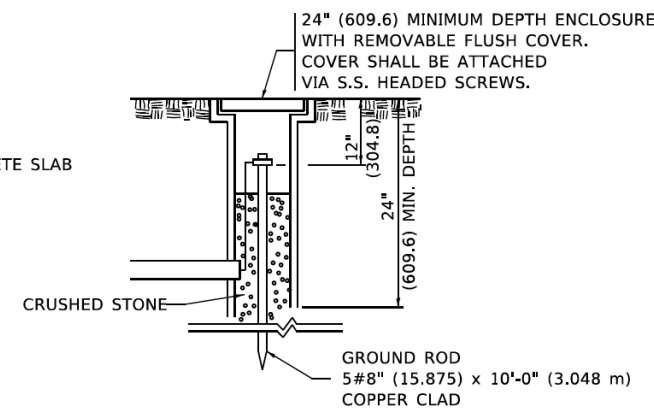
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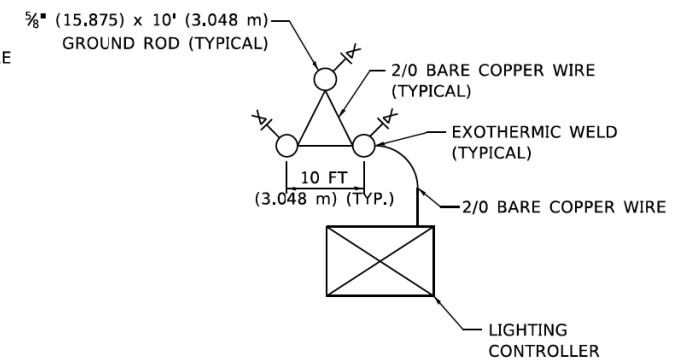
**LEFT SIDE ELEVATION**



**FRONT ELEVATION**



**GROUND WELL DETAIL**



**GROUND FIELD DETAIL (N.T.S.)**

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER

1-INCH (25.4) PVC TO GROUND FIELD OF 3 GROUND RODS IN A 10 FT (3.048 m). TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER. NO GROUND WELL SHALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.

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PLOT SCALE = 100.0000" / in.	DRAWN -	REVISED - R. TOMSONS 03-10-10
PLOT DATE = 1/15/2020	CHECKED -	REVISED - R. TOMSONS 03-29-12
	DATE -	REVISED - R. TOMSONS 07-21-17

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED,  
480VOLT, 200AMP (DUAL) RADIO SCADA (FIBER OPTIC PROVISION)

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A. I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-009L	COOK	263	248
BE-206		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

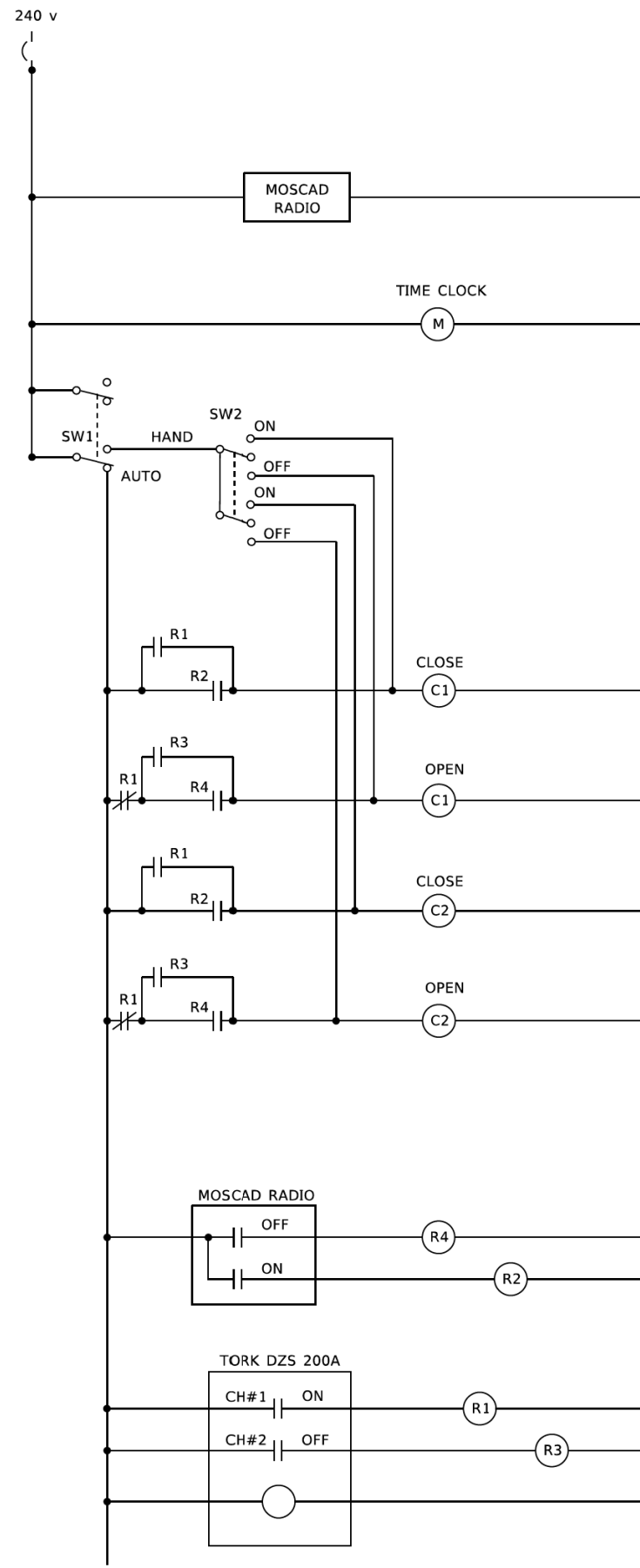
• 90/94/290



**NOTES**

- CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
- BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
- ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
- ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
 

R = RED	Y = YELLOW
B = BLACK	W = WHITE
BL = BLUE	G = GREEN
	GR = GREY
- MOSCAD I/O WIRING SHALL BE:  
DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.  
ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.  
AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



**CONTROL CIRCUIT LADDER LOGIC DIAGRAM**

MOSCAD I/O ASSIGNMENTS		
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	DIGITAL INPUT 1	ALARM KNOWLEDGE
2	DIGITAL INPUT 2	DOOR OPEN
3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN
6	DIGITAL INPUT 6	CABINET IN NON-AUTO
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL
17	24 V+	24+VDC
18	DI COMMON	COMMON
21	K1 C	K1 COMMON
22	K1 NO	LIGHTS ON CALL
24	K2 C	K2 COMMON
25	K2 NO	LIGHTS OFF CALL
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE
40	P. GROUND	GROUND

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD

MIXED I/O MODULE MODEL NUMBER V436

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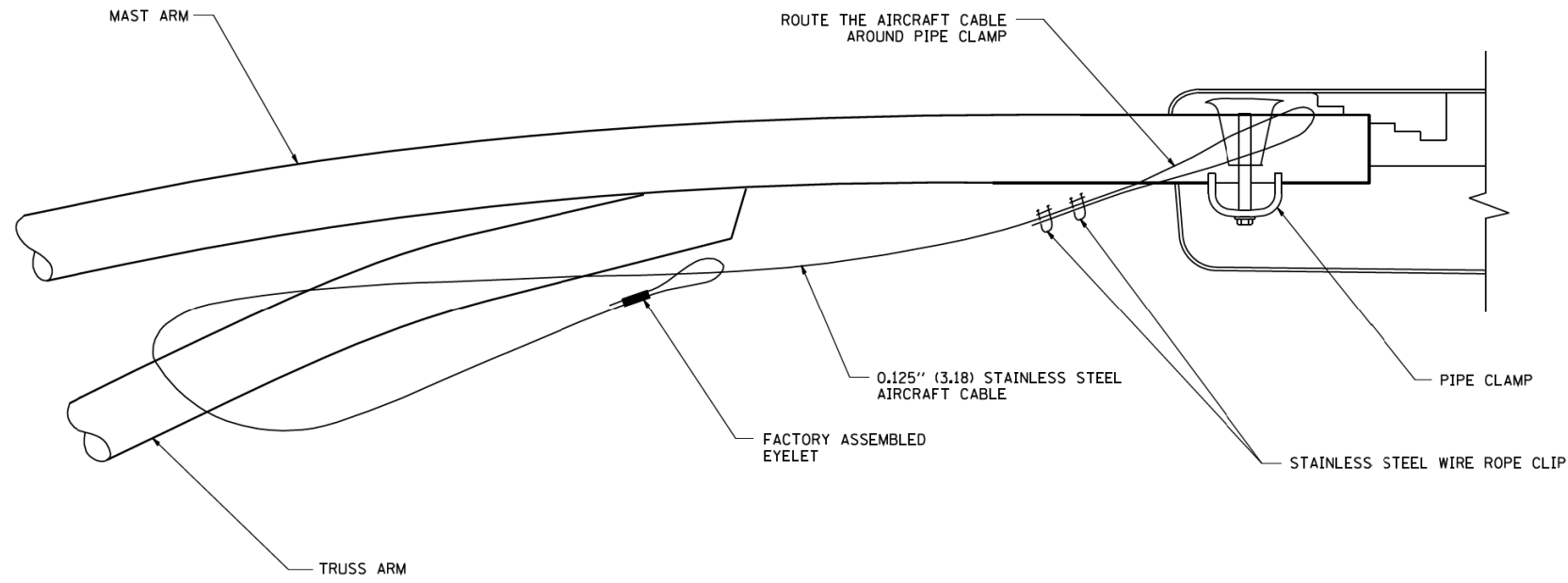
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PLOT SCALE = 100.0000 * / in.	DRAWN -	REVISED - R. TOMSONS 05-11-09
PLOT DATE = 1/15/2020	CHECKED -	REVISED - R. TOMSONS 03-10-10
	DATE -	REVISED - R. TOMSONS 03-29-12

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

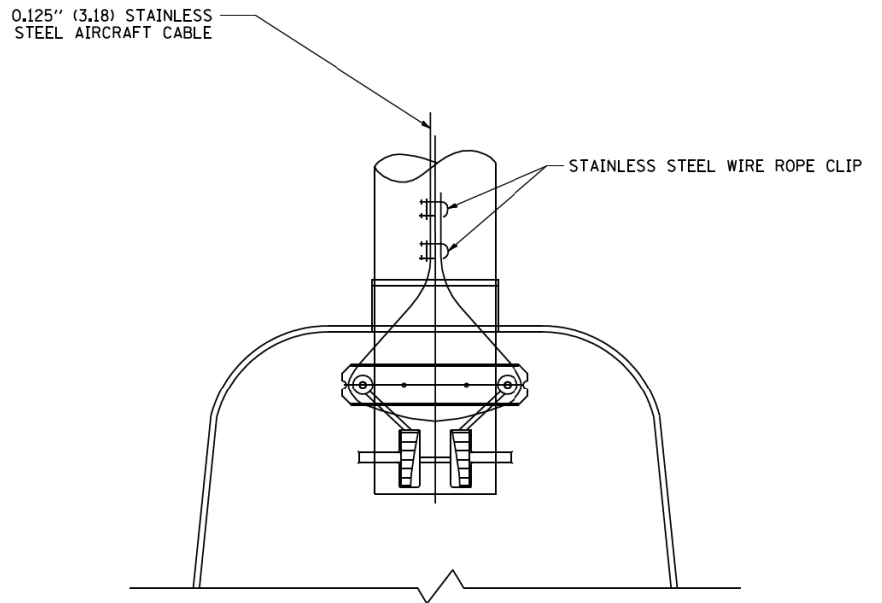
**LIGHTING CONTROLLER, BASE MOUNTED,  
480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION**

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

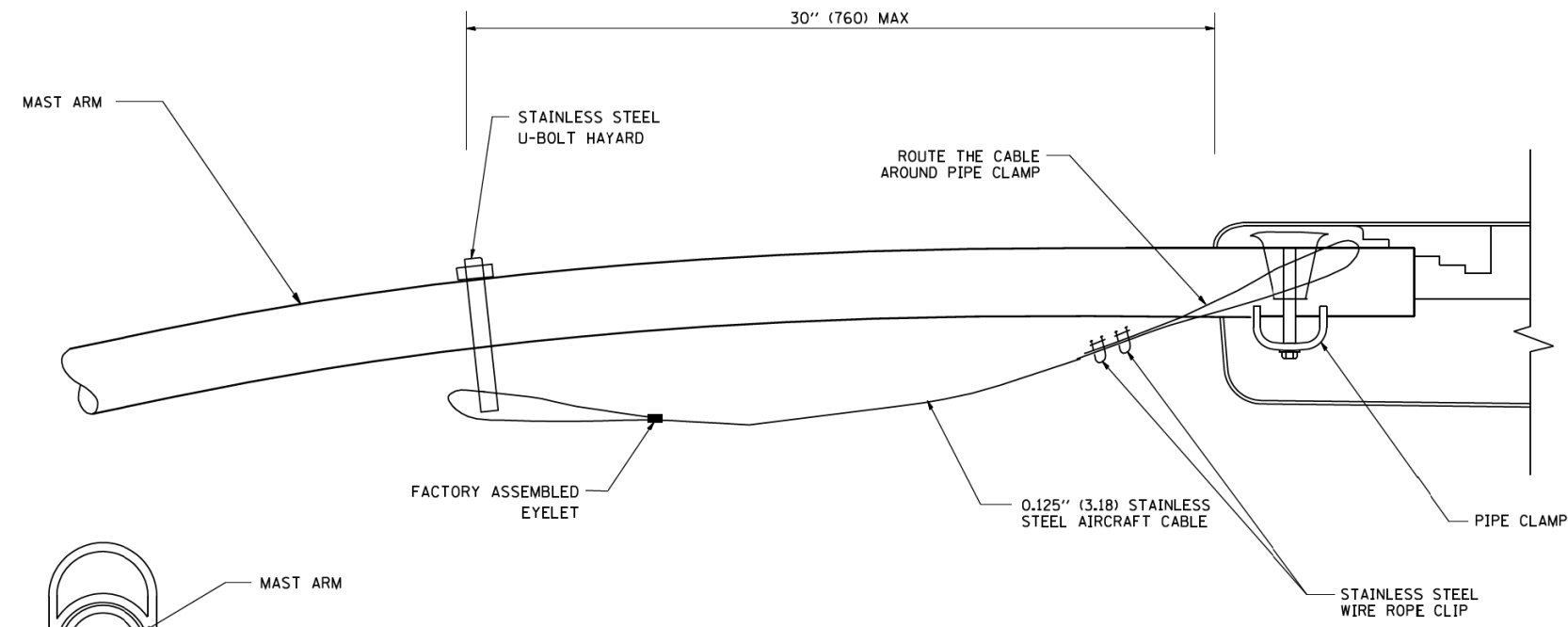
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-009L	COOK	263	249
BE-206		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



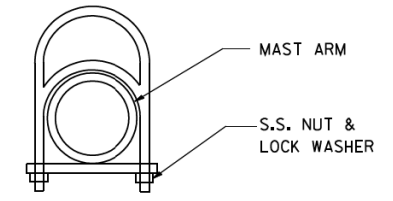
**SIDE VIEW (TRUSS ARM)**  
N.T.S.



**BOTTOM VIEW**  
N.T.S.



**SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)**  
N.T.S.



STAINLESS STEEL U-BOLT HAYARD

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
  2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
  3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
  4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

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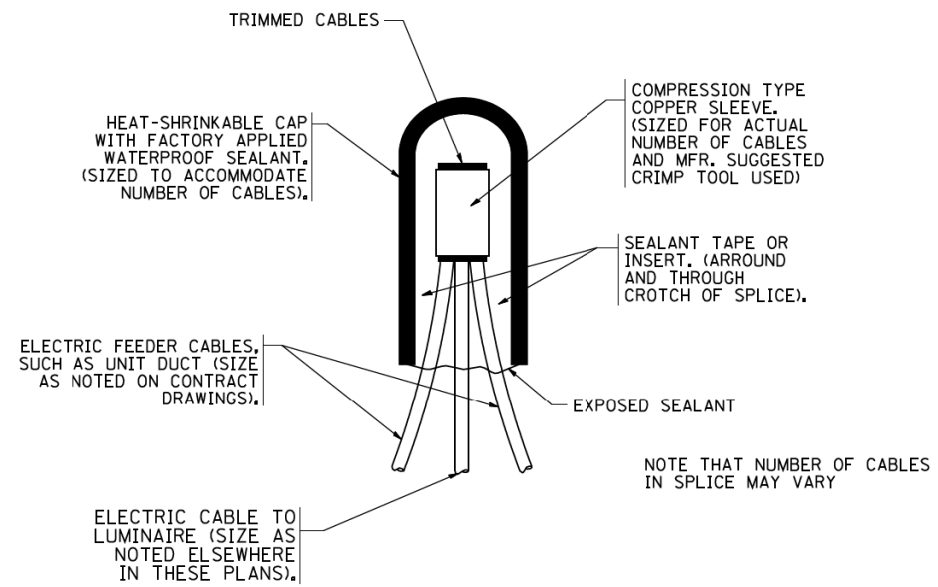
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

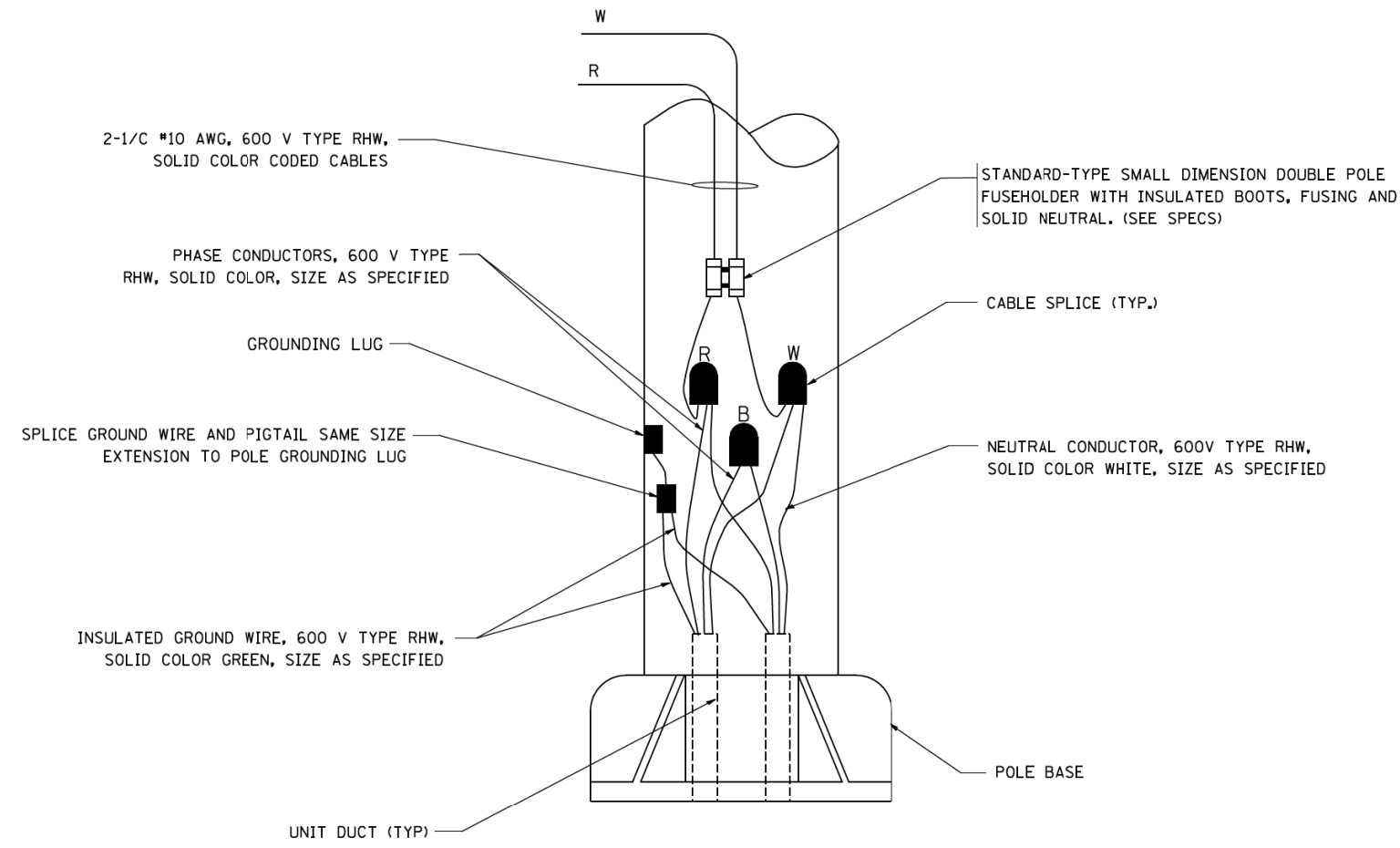
<b>LUMINAIRE SAFETY CABLE ASSEMBLY</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-009L	COOK	263	250
BE-701		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



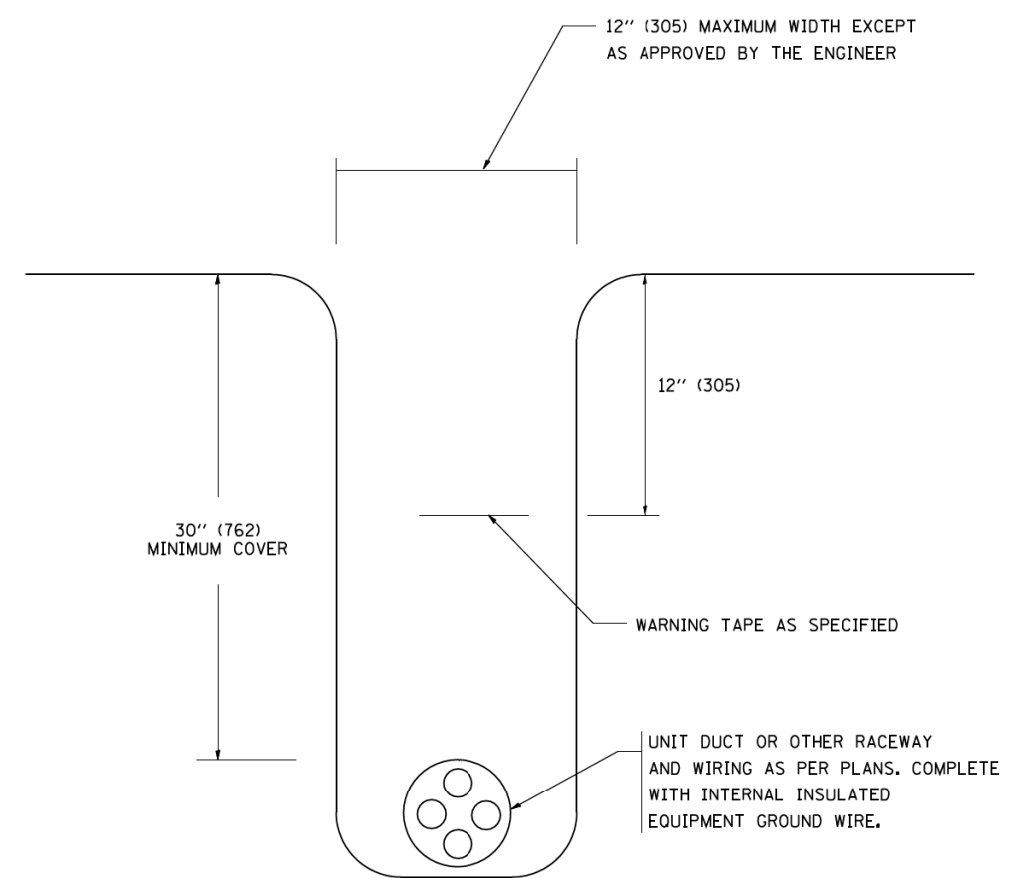
**TYPICAL SPLICE DETAIL**

N.T.S.



**POLE WIRING DETAIL**

N.T.S.



**TYPICAL WIRING IN TRENCH DETAIL**

N.T.S.

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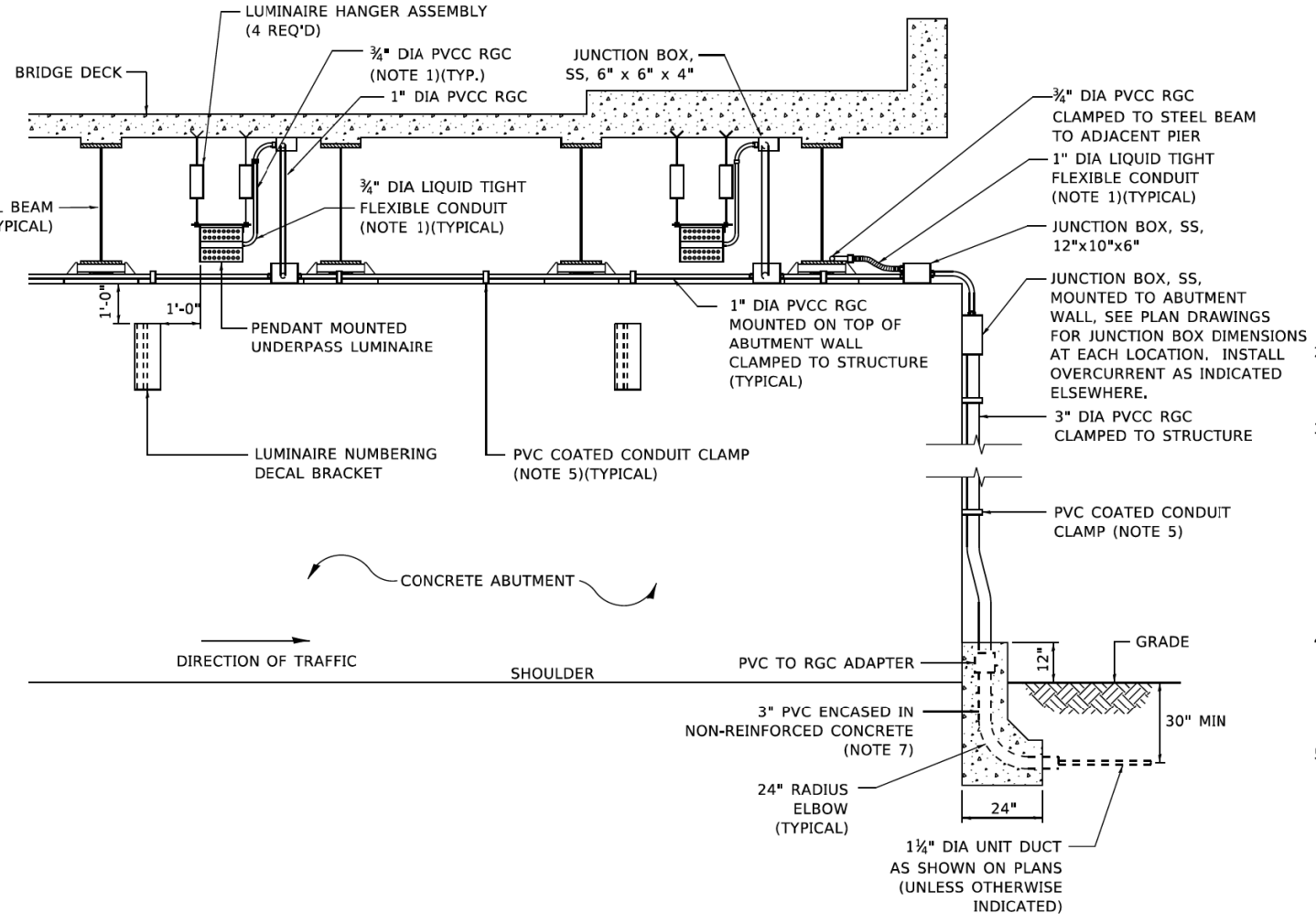
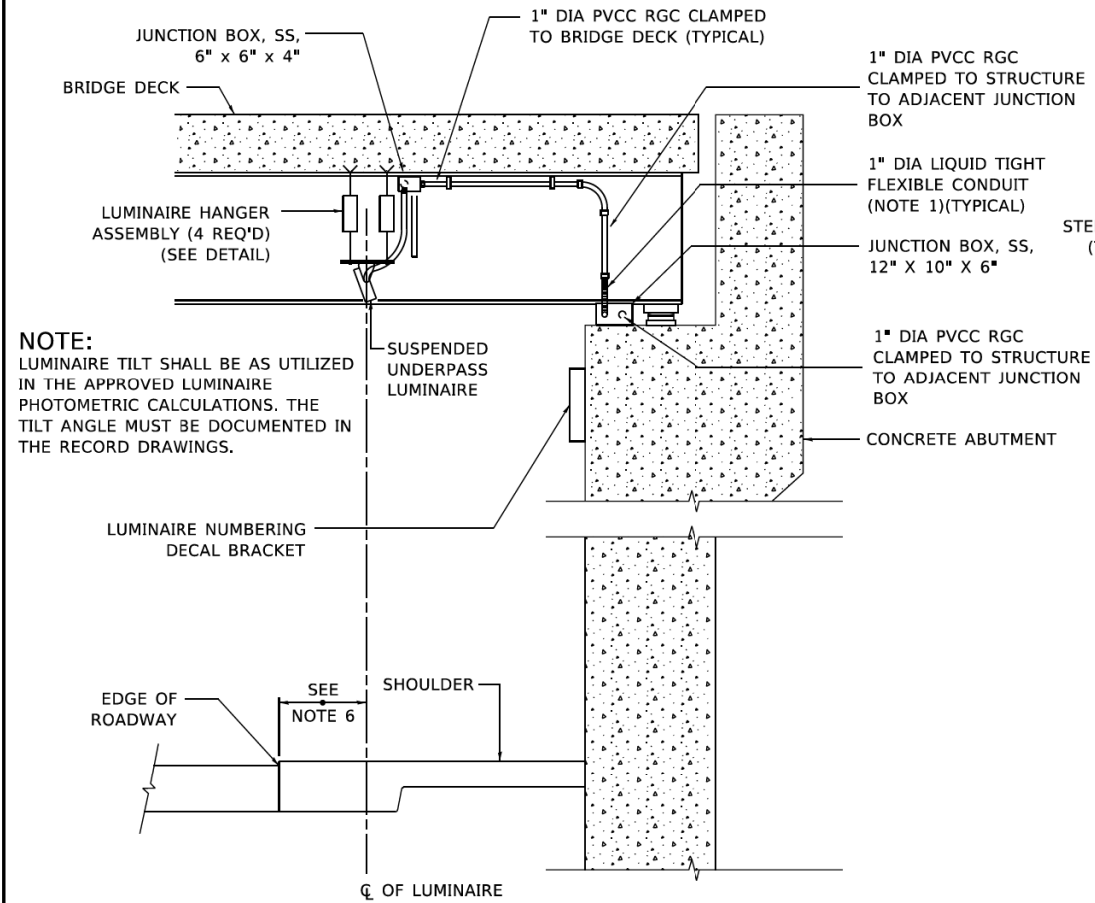
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

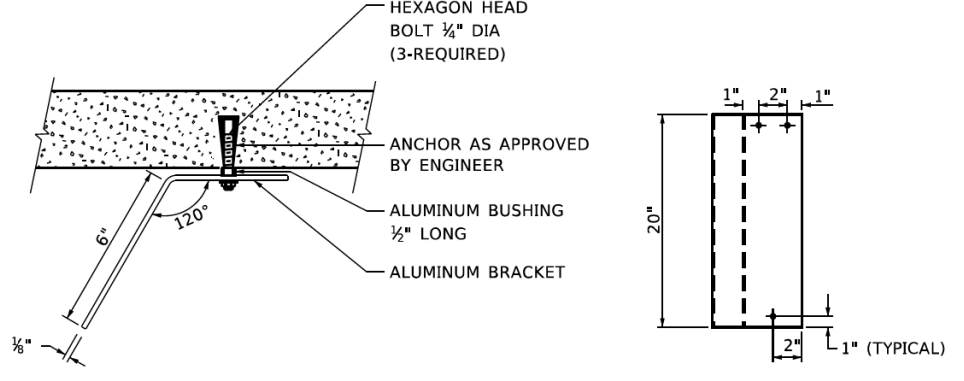
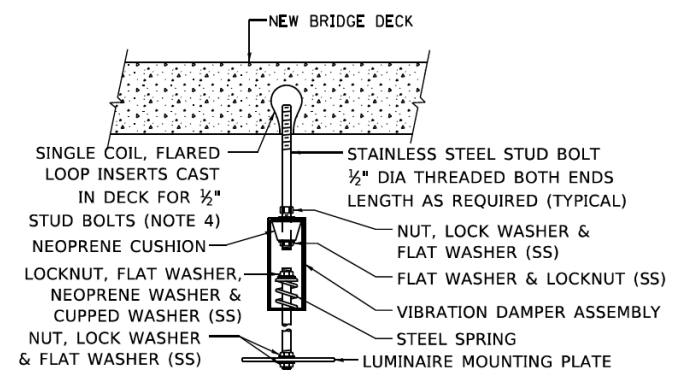
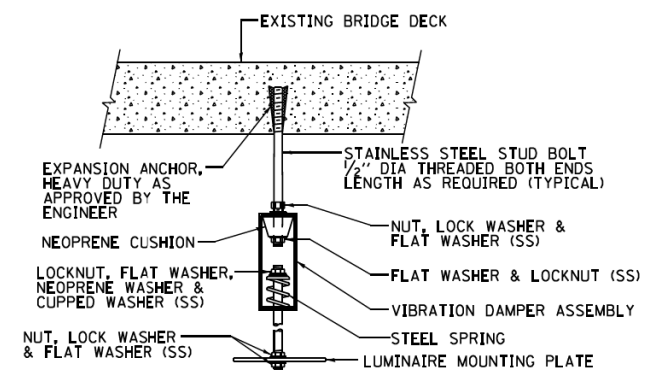
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SHEET A**  
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
• 2014-009L COOK 263 251  
**BE-702** CONTRACT NO.  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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- NOTES:**
1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT " DIA. CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
  2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
  3. THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
  4. THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
  5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
  6. ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
  7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
  8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
  9. IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).



**EXISTING BRIDGE DECK INSTALLATION**

**NEW BRIDGE DECK INSTALLATION**

**TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS**

**LUMINAIRE NUMBERING DECAL BRACKET**

NOT TO SCALE

**PVC COATED CONDUIT BEAM CLAMP**  
 NOT TO SCALE

**PVC COATED CONDUIT CLAMP**  
 NOT TO SCALE

USER NAME = gaglianobt	DESIGNED -	REVISED - 12-12-05
PLOT SCALE = 100.0000" / in.	DRAWN -	REVISED -
PLOT DATE = 1/15/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

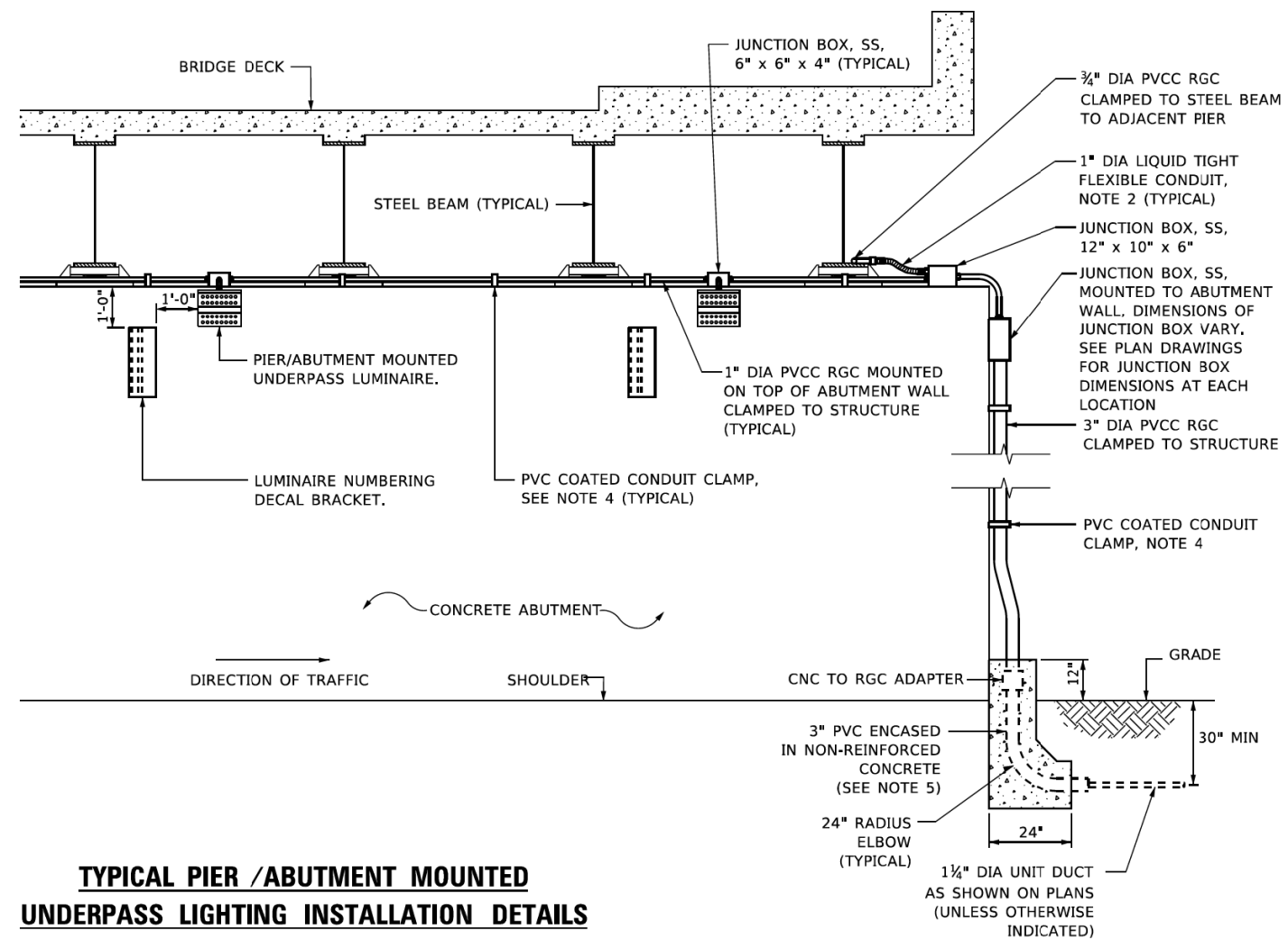
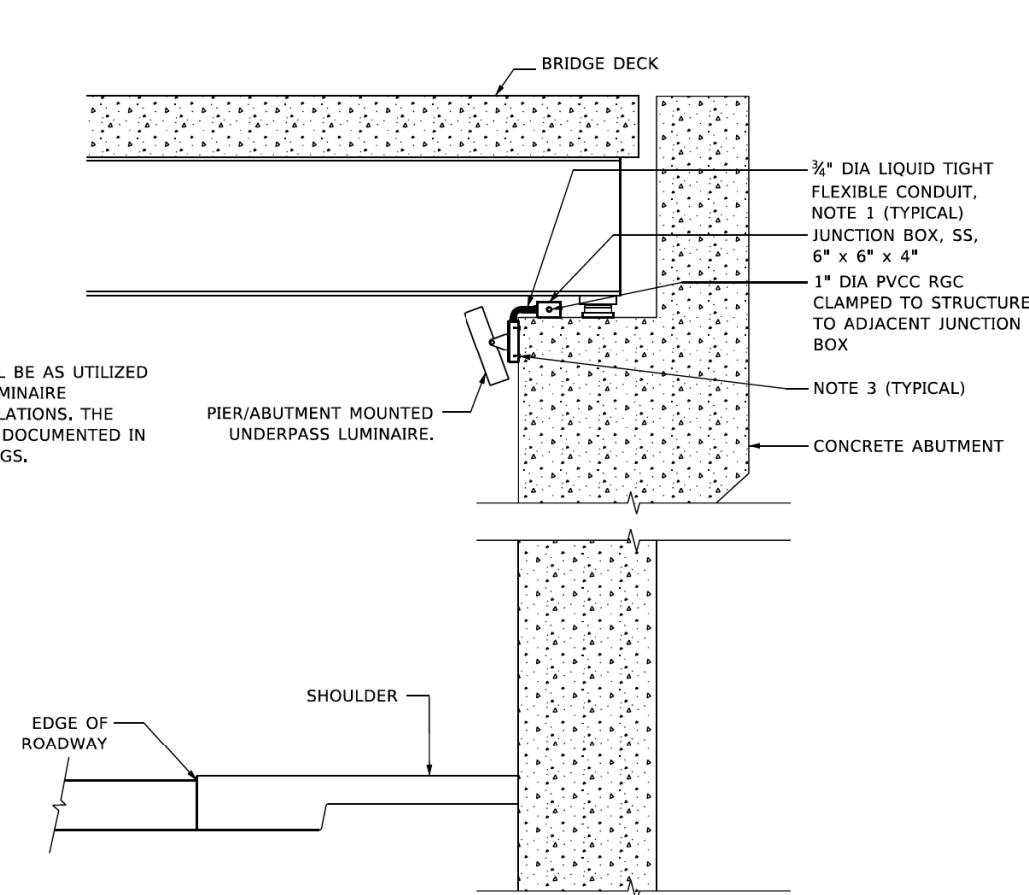
**SUSPENDED MOUNT LED UNDERPASS  
 LUMINAIRE INSTALLATION DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

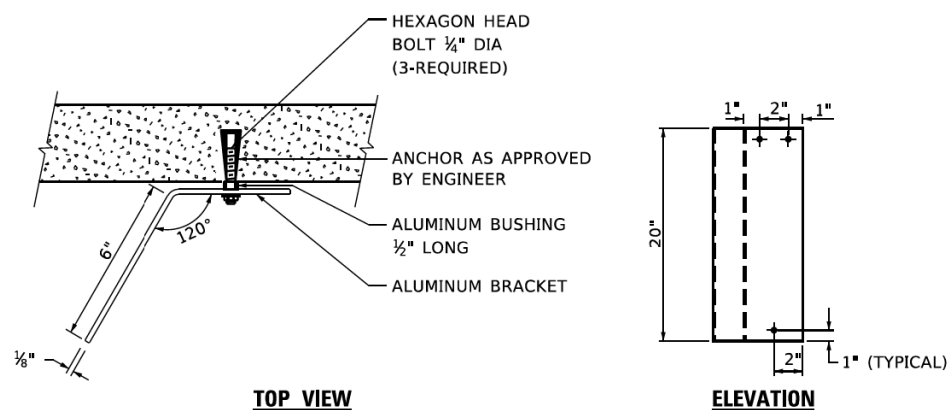
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-009L	COOK	263	252
BE-901			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

• 90/94/290

**NOTE:**  
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.

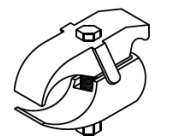


**TYPICAL PIER /ABUTMENT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS**



**LUMINAIRE NUMBERING DECAL BRACKET**

NOT TO SCALE



**PVC COATED CONDUIT BEAM CLAMP**

NOT TO SCALE



**PVC COATED CONDUIT CLAMP**

NOT TO SCALE

**NOTES:**

- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT THE COST OF THE 1/2" DIA. RIGID STEEL CONDUIT AND 1/2" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
- SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
- UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1' BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
- EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

MODEL: Default  
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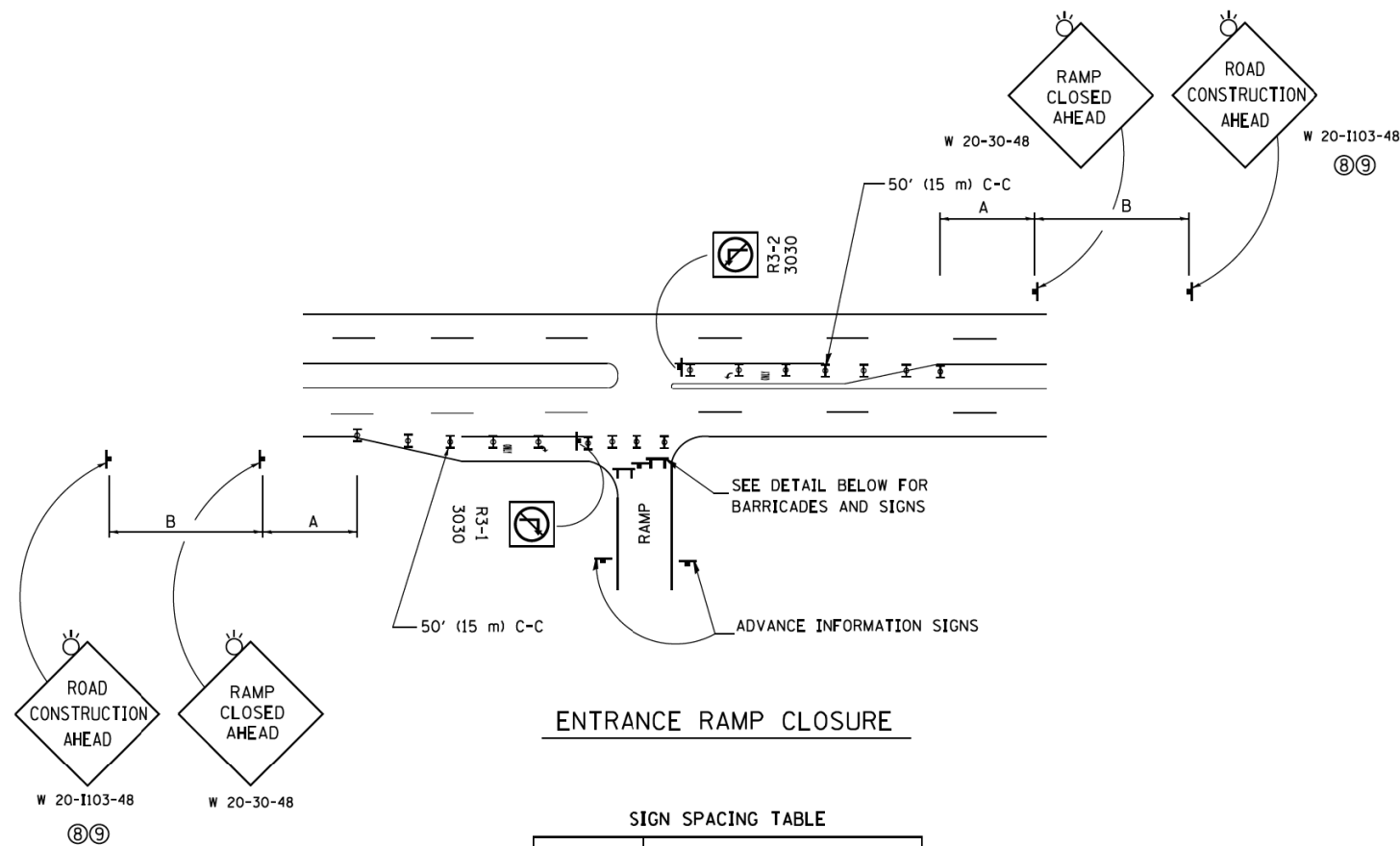
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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/15/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER /ABUTMENT MOUNTED LED UNDERPASS  
LUMINAIRE INSTALLATION DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-009L	COOK	263	253
BE-903			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

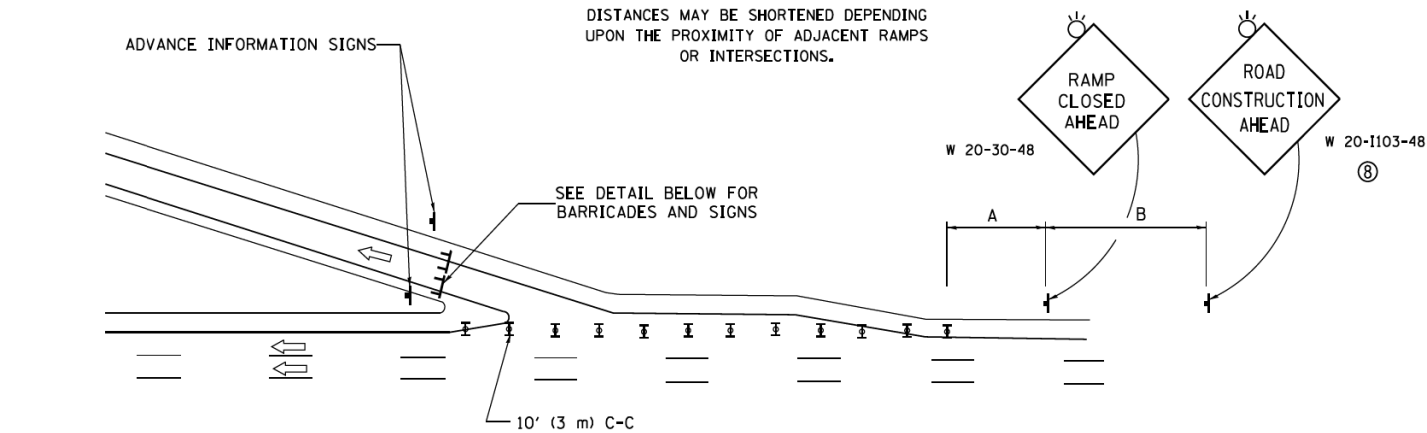


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

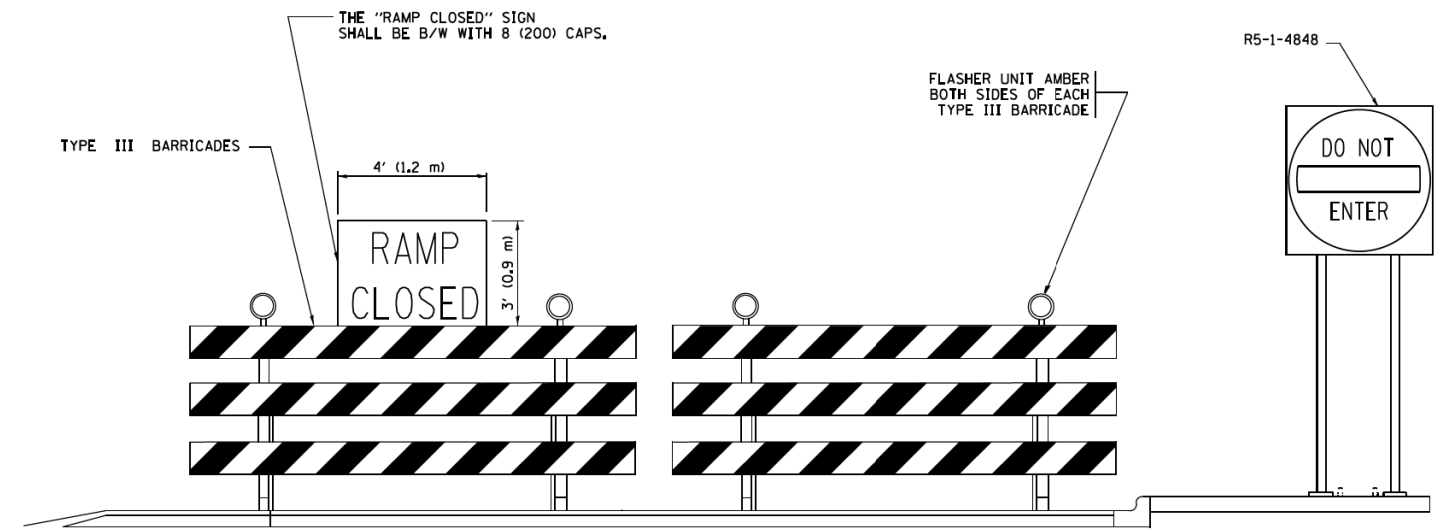
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

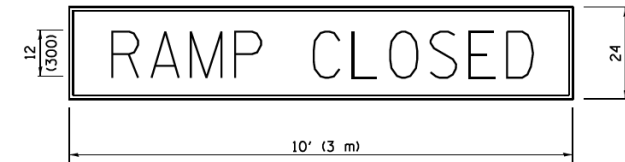
**SYMBOLS**

- ▬ TYPE II BARRICADE OR DRUM
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

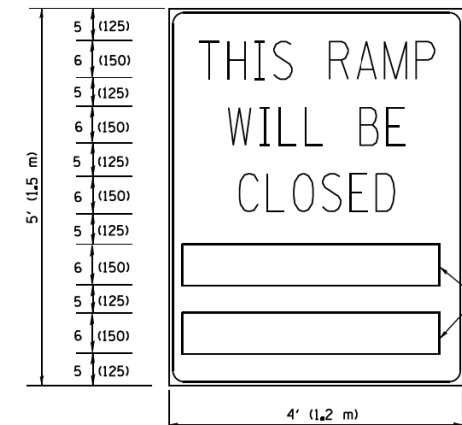
**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN. • 90/94/290

FILE NAME = p:\11084EBID\INTEG\111nois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Dist 1\CAD\Drawings\CADsheets\11084EBID.dgn	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07
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PLOT DATE = 11/27/2017	DATE - 02-83	REVISED - M.D. 06-13	REVISED - M.D. 01-18

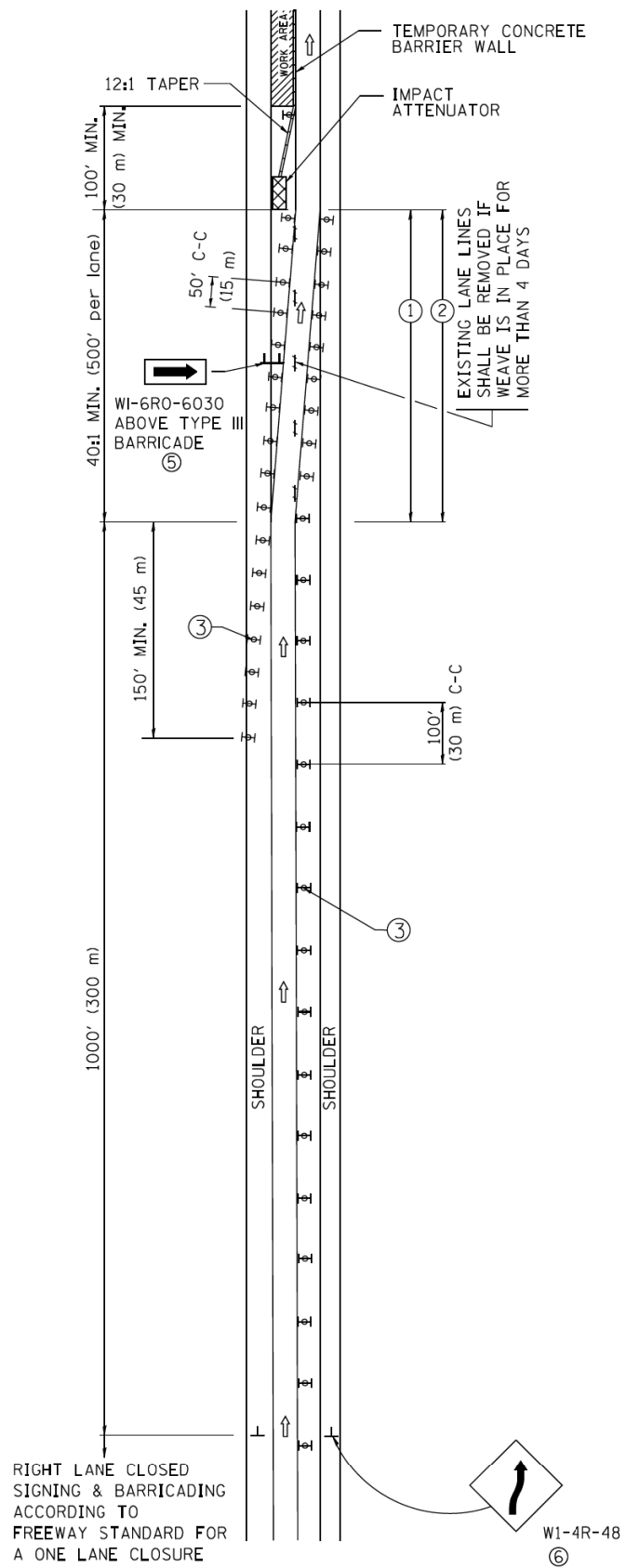
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

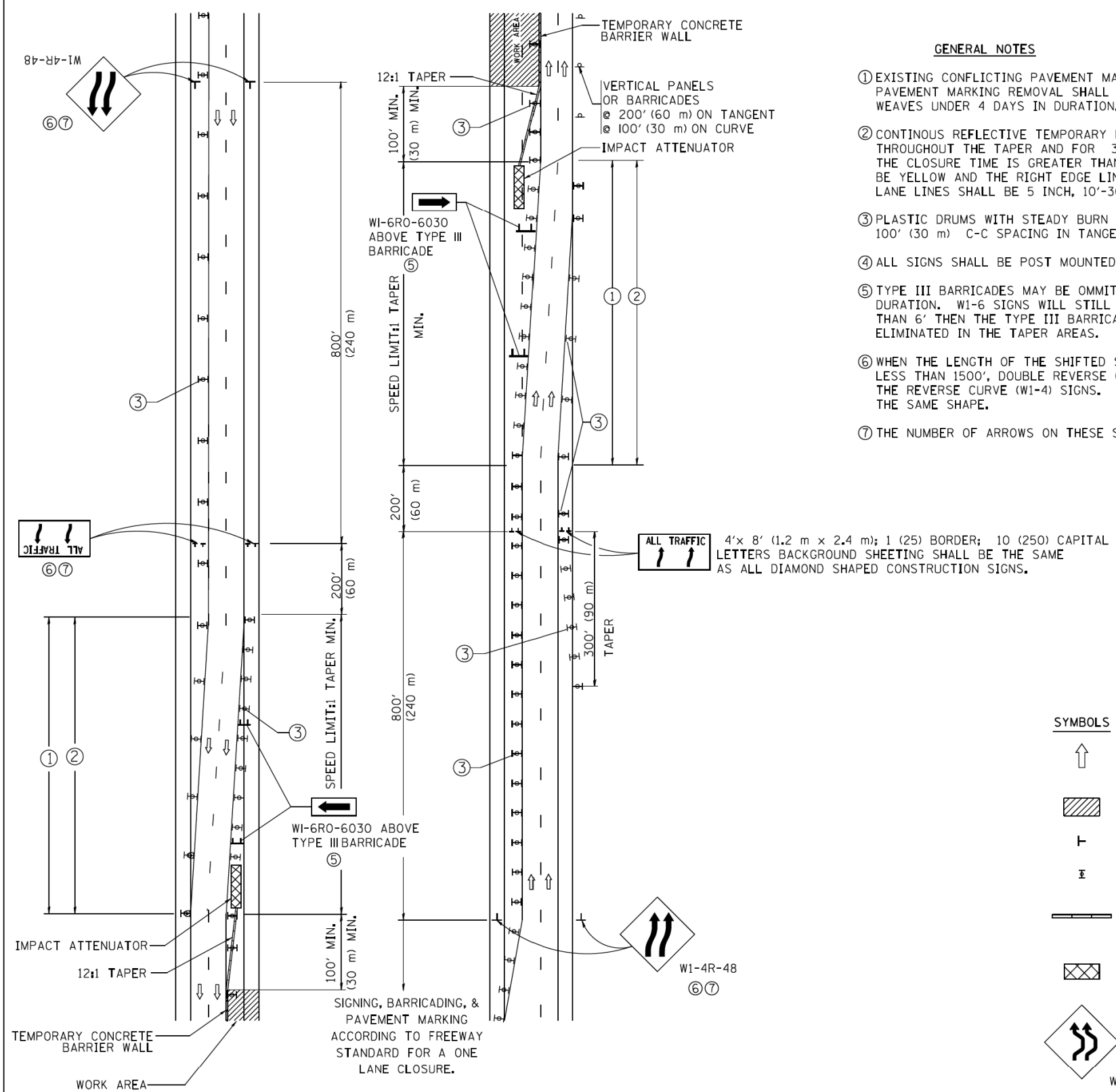
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-009L	COOK	263	254
TC-08			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48  
⑥ ⑦
- W24-1-48  
⑦

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

• 90/94/290

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06
ca\pw_work\pwsdot\footemj\d0108315\cc08.gn		DRAWN -	REVISED - SPB 01-07
PLOT SCALE = 50.000' / in.		CHECKED -	REVISED - SPB 12-09
PLOT DATE = 7/1/2013		DATE - 02-87	REVISED - MD 06-13

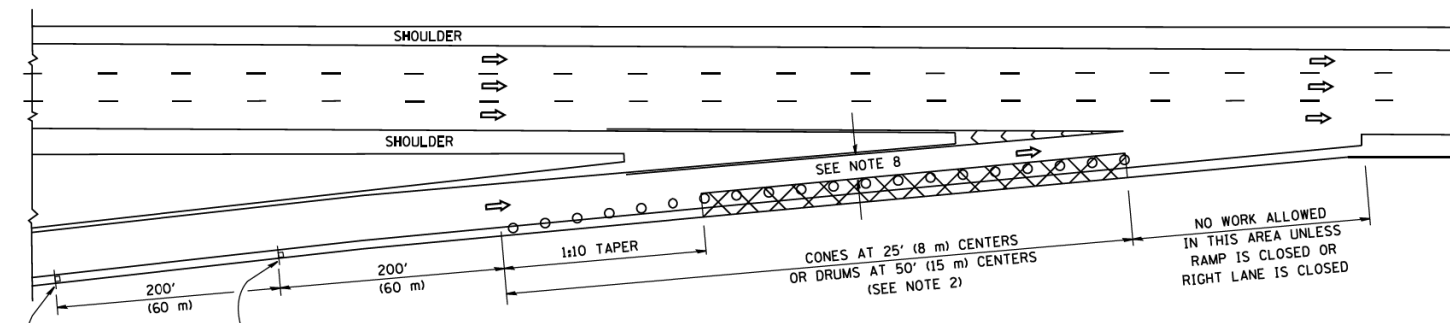
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR  
FREEWAY SINGLE & MULTI-LANE WEAVE

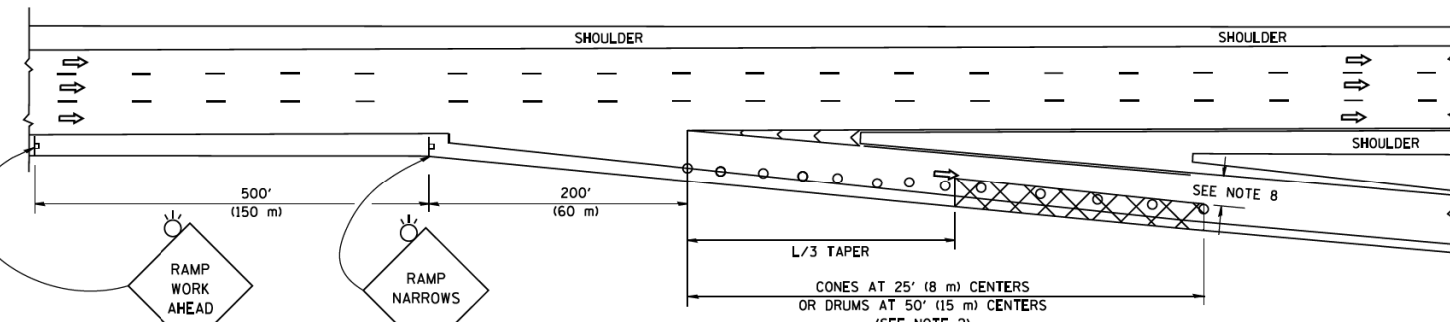
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2014-009L	COOK	263	255
TC-09		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

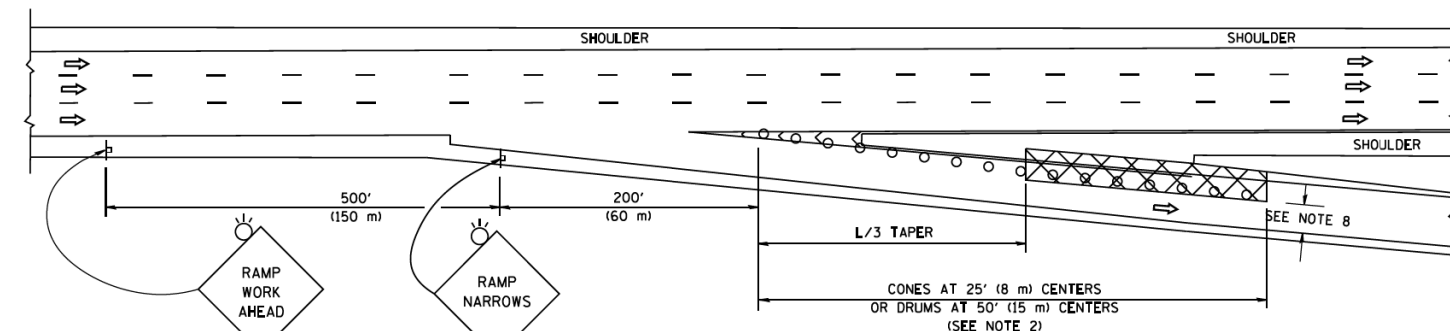
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

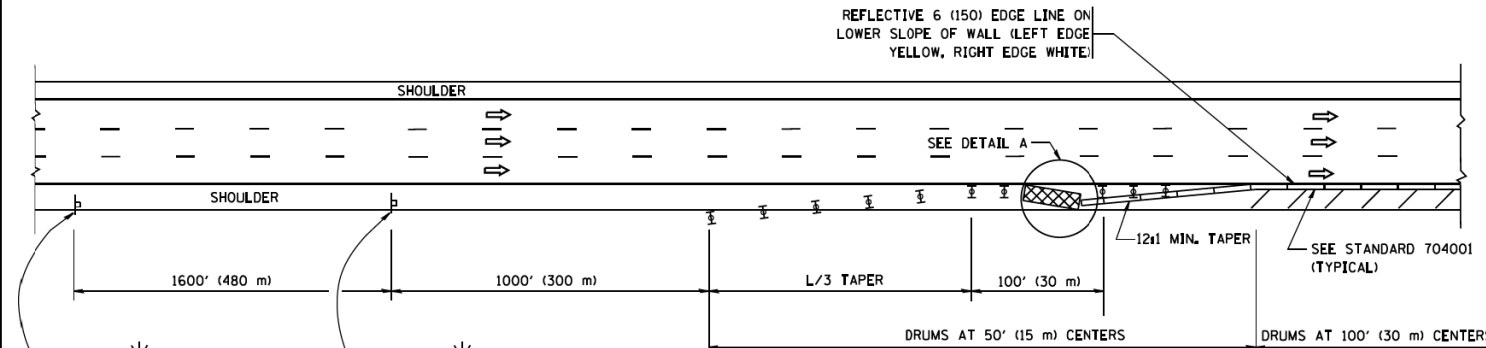
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

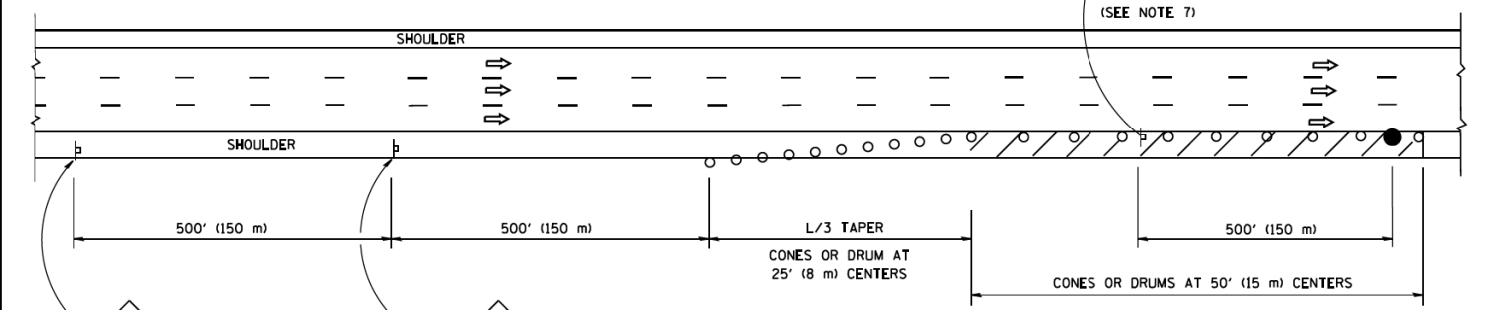
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH $L=0.65(W)(S)$ $L=(W)(S)$
$W$ = WIDTH OF OFFSET IN FEET (METERS)	
$S$ = NORMAL POSTED SPEED MPH (KM/H)	
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

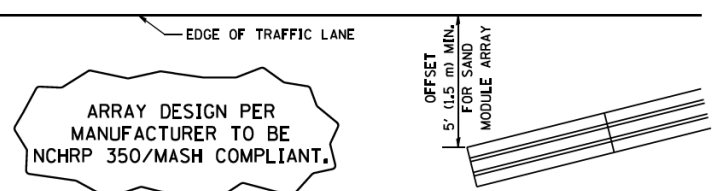


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:  
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

DETAIL "A"  
IMPACT ATTENUATOR, TEMPORARY  
(SEE NOTE 5)

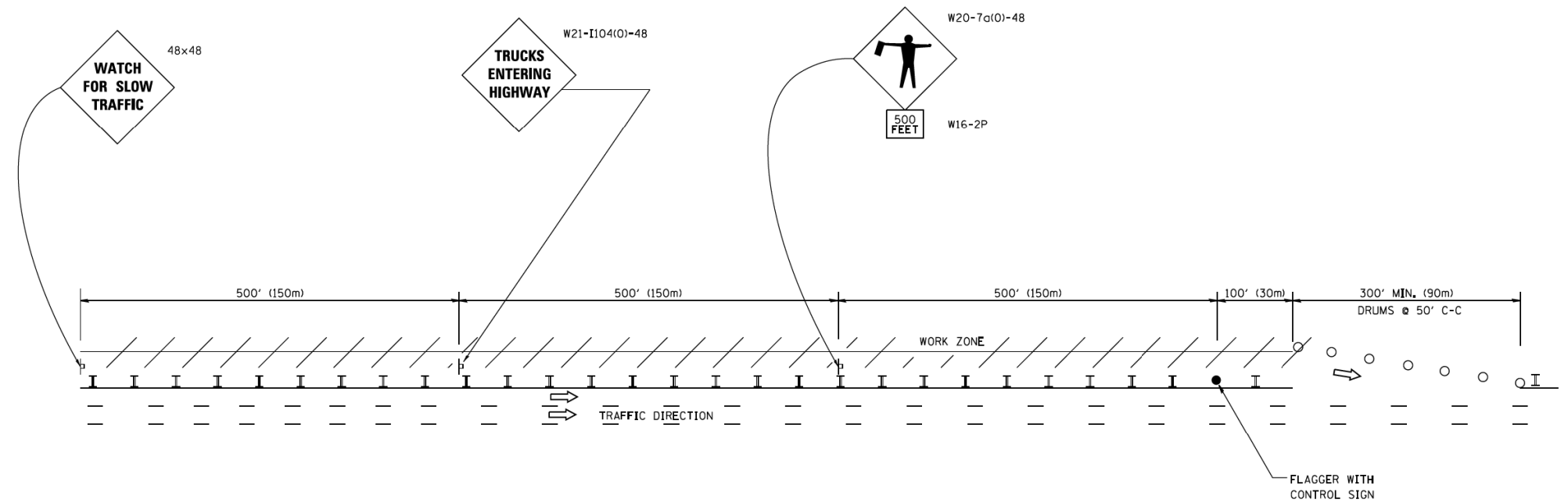
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

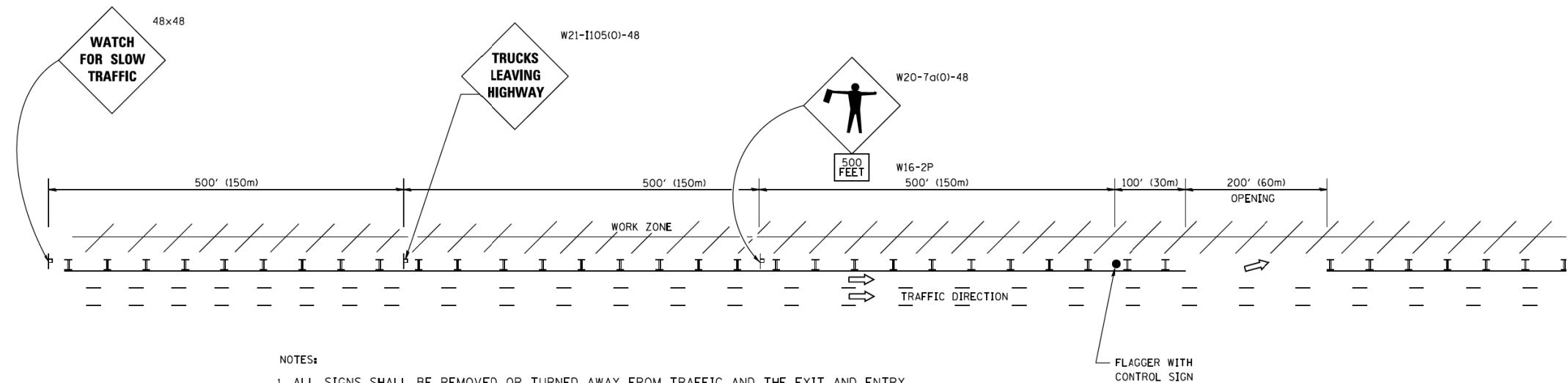


SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING

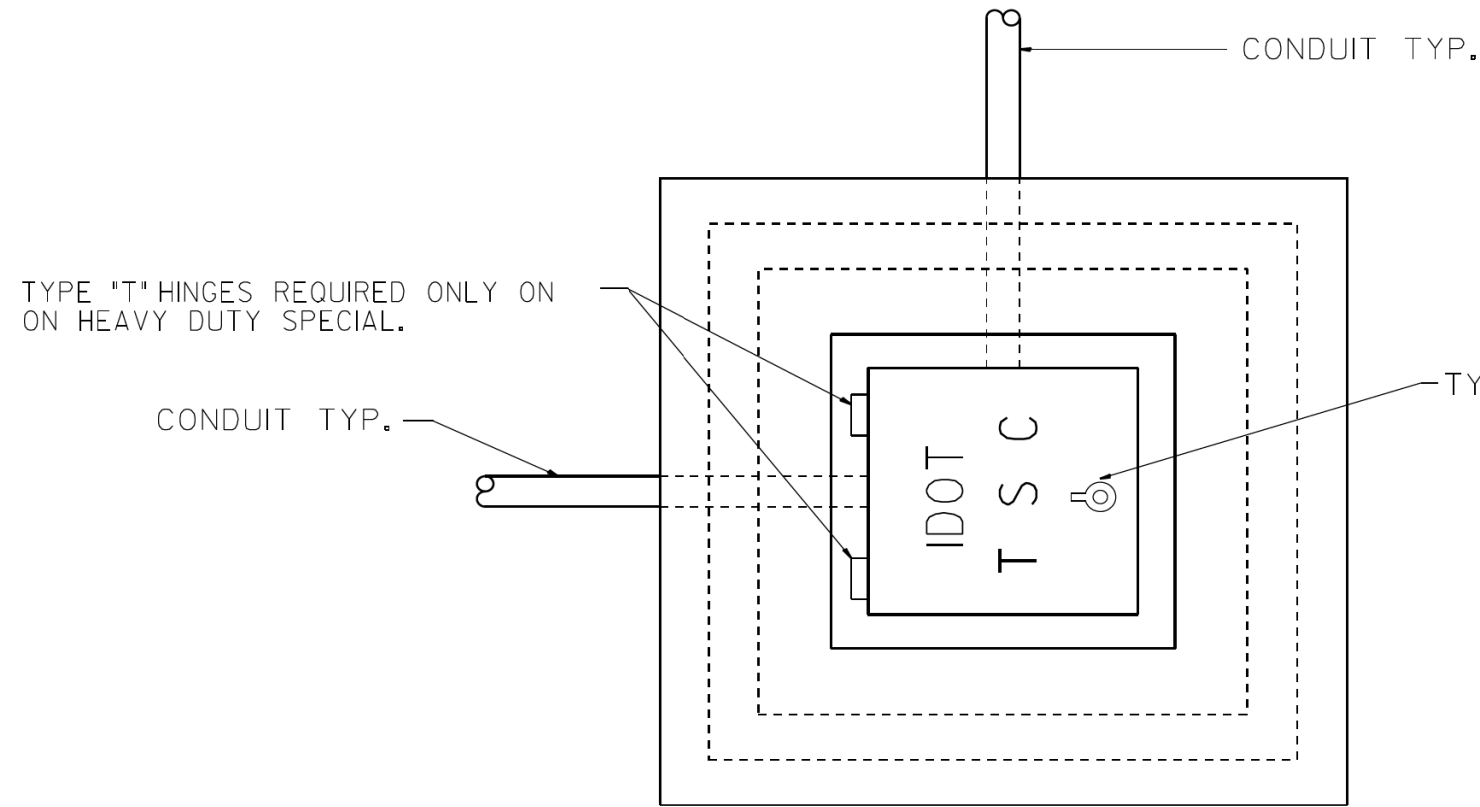


NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN • 90/94/290

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pw_work\pw\dot\footem\vd0108315\tcl8.dgn		DRAWN -	REVISED - S.P.B. 01-07					•	2014-009L	COOK	263	257
PLOT SCALE = 50.000' / in.		CHECKED -	REVISED - S.P.B. 12-09		TC-18			CONTRACT NO.				
PLOT DATE = 7/8/2013		DATE -	REVISED - M.D. 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

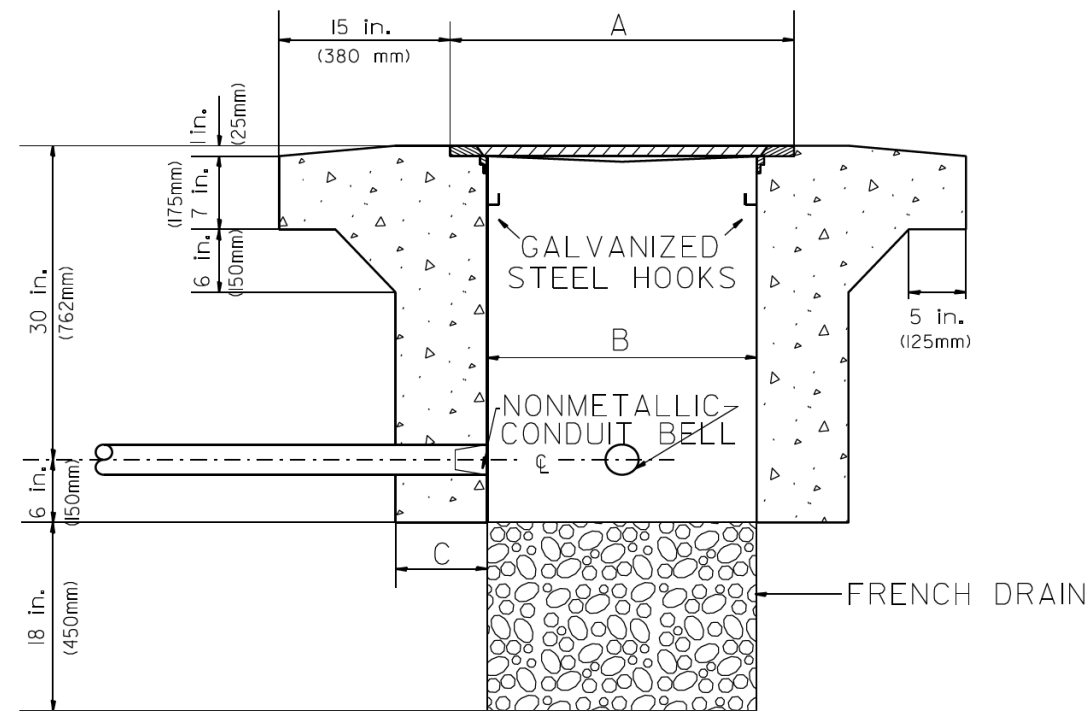
A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

A	31.5" (800 mm)
B	30.0" (762 mm)
C	10.0" (250 mm)

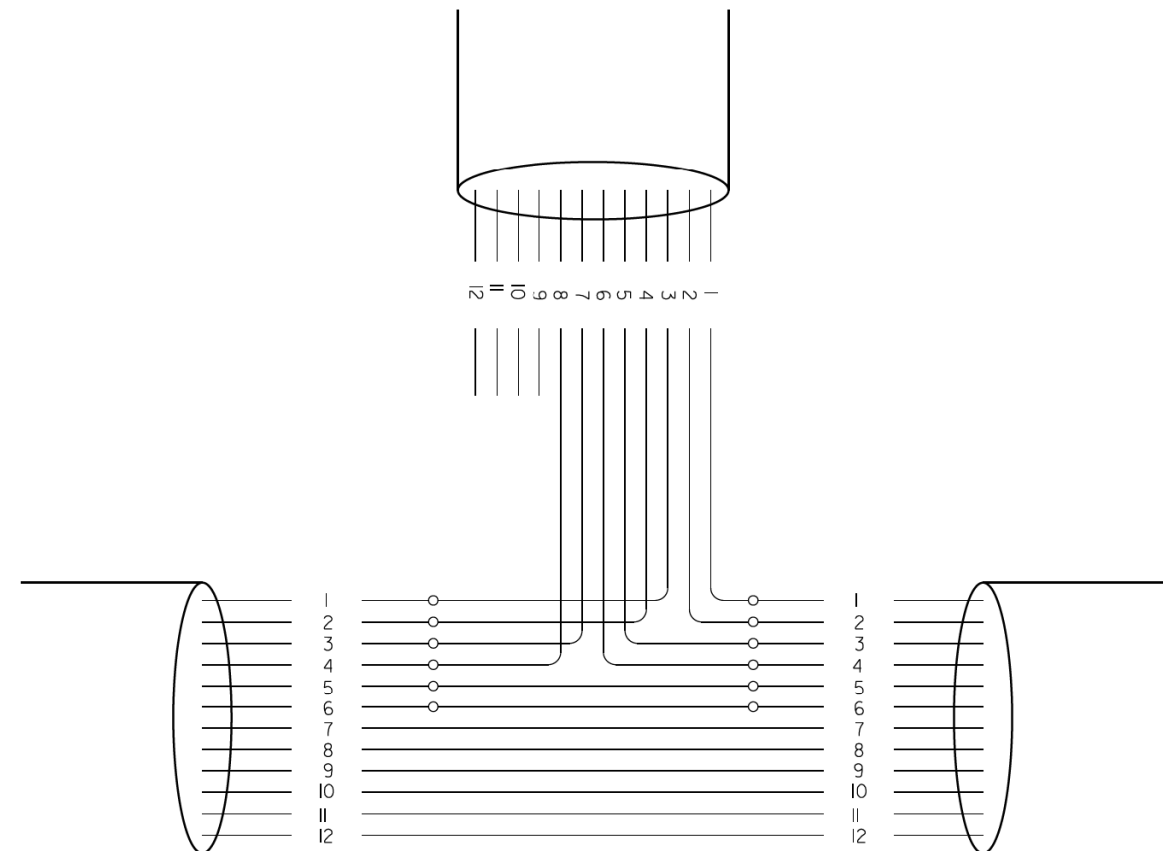
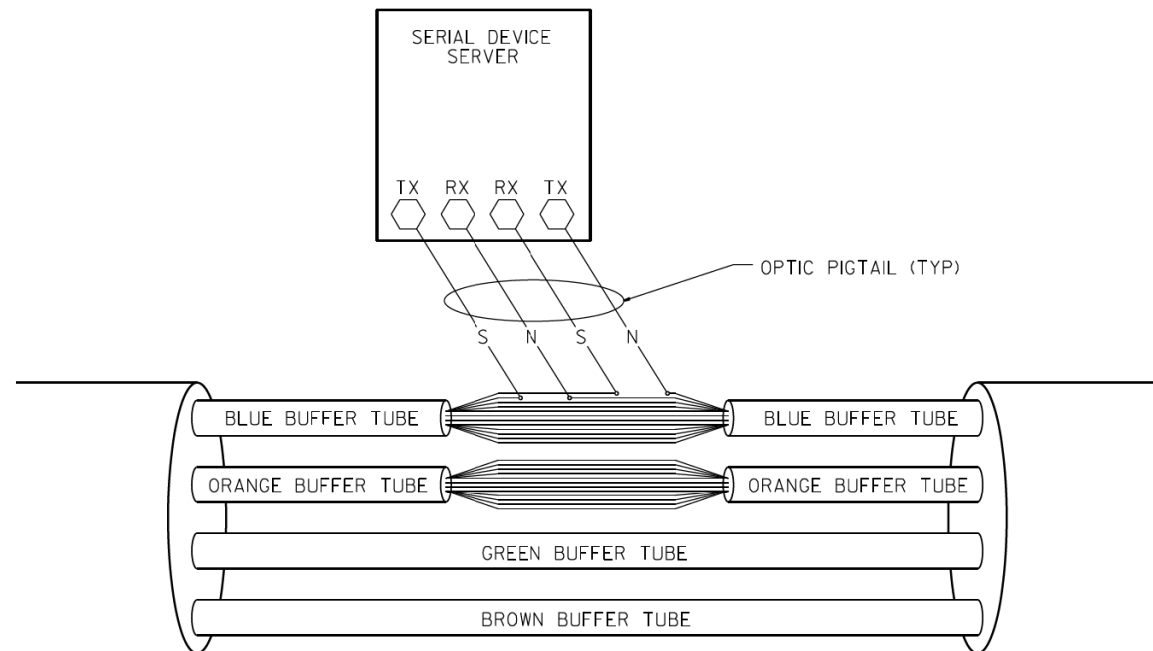
(FRAME AND COVER 405 LBS. (184 Kg. (405))



ELEVATION

PC CONCRETE - HEAVY DUTY HAND HOLE

FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 04/97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PC CONCRETE - HEAVY DUTY HAND HOLE		F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
#FILEL#		DRAWN - G.N.	REVISED -		SCALE: NONE	SHEET	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	263	258
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		DATE - 09/11/96	REVISED -										

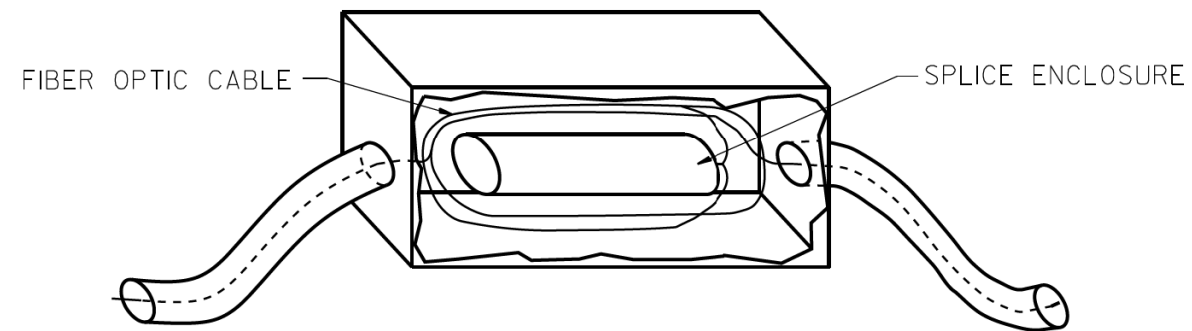


PHYSICAL SPLICE DETAILS (TYP)  
(NOT TO SCALE)

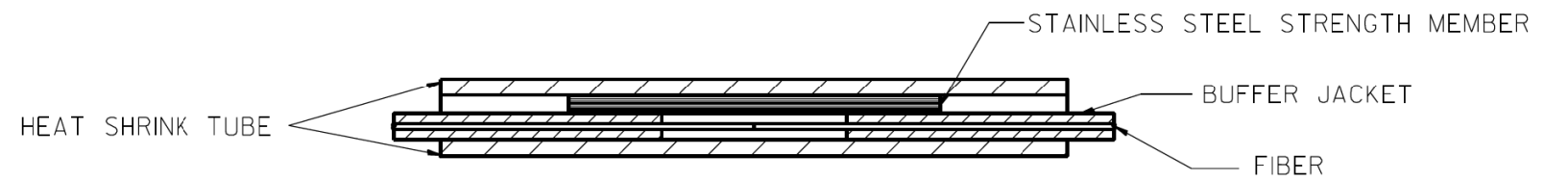
FIBERS		FUNCTION	APPLICATION DESCRIPTION
FIBER NO.	COLOR CODE		
1	BLUE	IN TX	DATA CIRCUIT
2	ORANGE	IN RX	
3	GREEN	OUT RX	
4	BROWN	OUT TX	
5	SLATE	IN TX	DMS
6	WHITE	IN RX	
7	RED	OUT RX	
8	BLACK	OUT TX	
9	YELLOW	IN TX	CCTV
10	VIOLET	IN TX	
11	ROSE	OUT RX	
12	AQUA	OUT TX	

NOTE:

I,- THIS DIAGRAM IS PROVIDED FOR ILLUSTRATION PURPOSES ONLY AND DEPICTS A TYPICAL FIBER OPTIC SPLICE.



JUNCTION BOX DETAIL



FIBER SPLICE DETAIL

FILE NAME =	USER NAME = #USER#	DESIGNED - D.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	FIBER OPTIC WIRING DETAIL			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - G.M.	REVISED -								263	260
#MODELNAME#		CHECKED - D.S.	REVISED -		CONTRACT NO.							
	PLOT DATE = #DATE#	DATE - 04/26/93	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	FED. ROAD DIST. NO.

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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**NOTES:**

EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

**AECOM**  
 200 EAST MICHIGAN AVENUE, SUITE 1400  
 PHOENIX, ARIZONA 85016-1700 FAX: (602) 371-6800

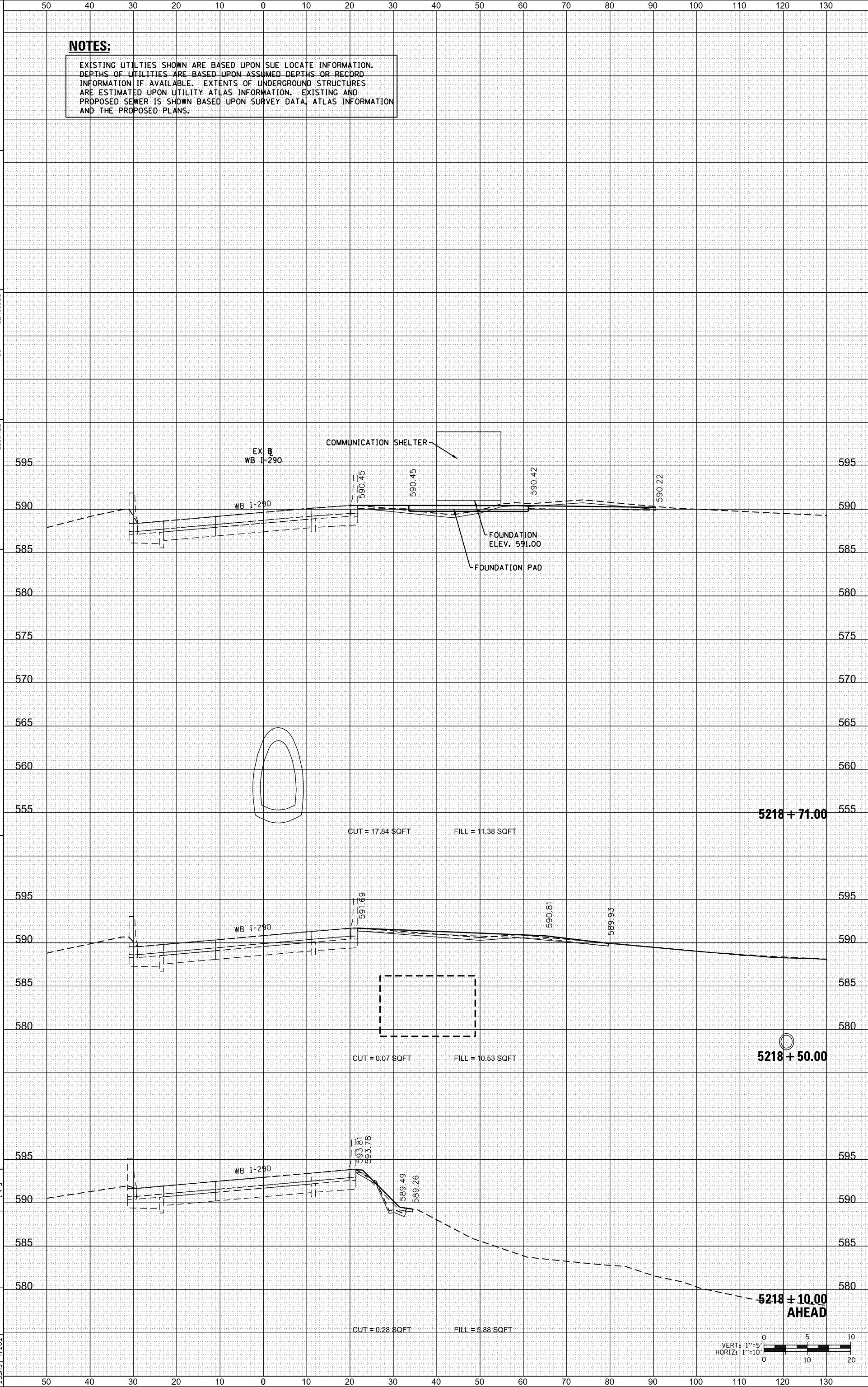
DESIGNED BY: SDH  
 USER NAME: PINGBAND  
 CHECKED BY: MJC  
 DATE: 1/29/2020

REVISIONS:  
 REVISION NO. | DATE | DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 COMMUNICATION SHELTER  
 SHEET OF SHEETS STA. 5218+10.00 TO STA. 5218+71.00

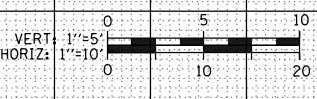
DATE: 9/24/2014  
 SECTION: 2014-009L  
 COUNTY: ILLINOIS  
 CONTRACT NO.: 60Y00



5218 + 71.00

5218 + 50.00

5218 + 10.00  
 AHEAD



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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**NOTES:**

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**AECOM**  
 200 EAST MICHIGAN AVENUE, SUITE 1400  
 PHOENIX, ARIZONA 85012-1700 FAX: (602) 371-6800

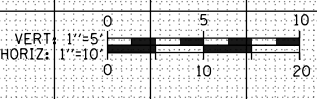
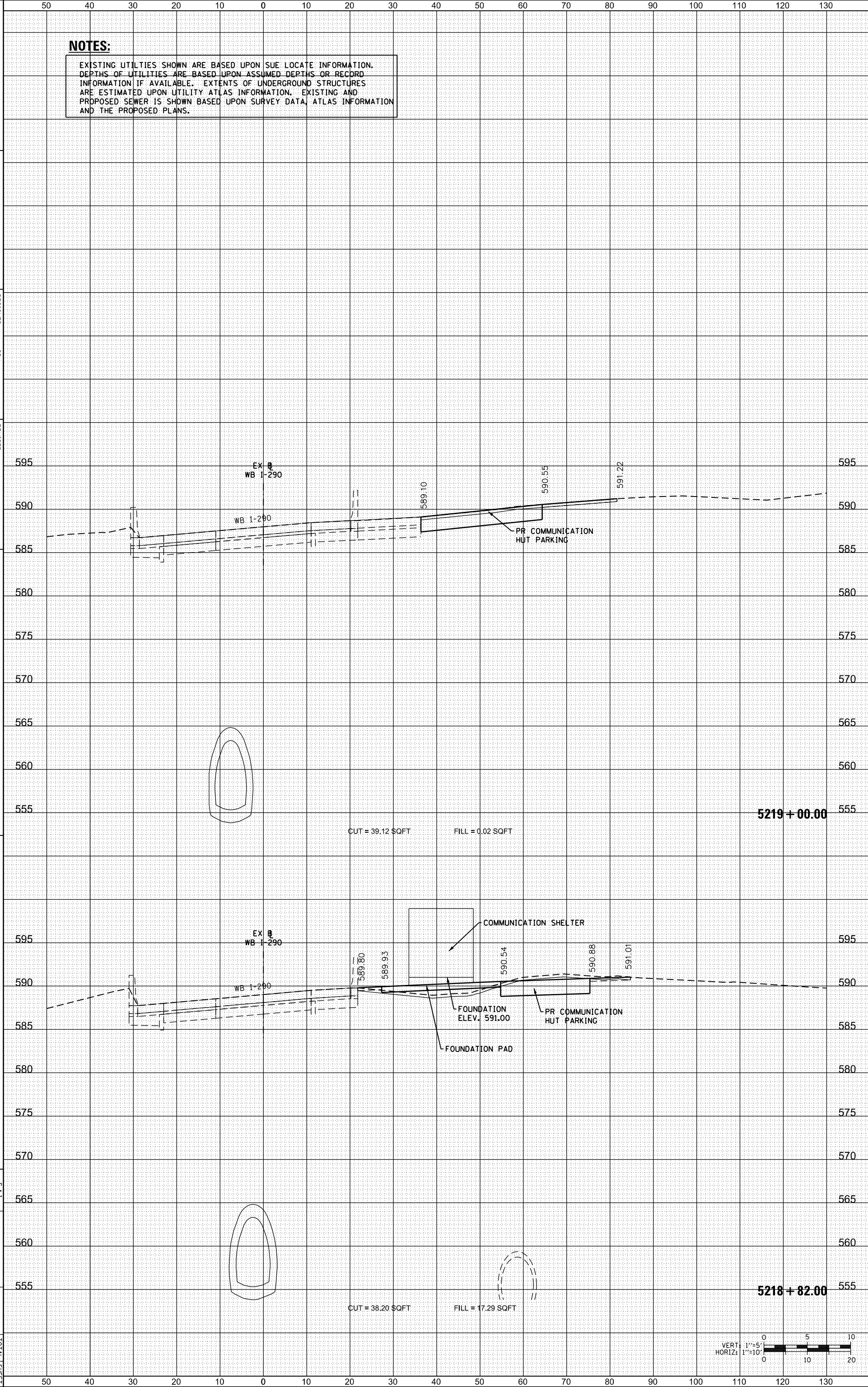
DESIGNED - SDH  
 DRAWN - SDH  
 CHECKED - MJE  
 DATE - 1/29/2020

REVISIONS  
 REVISION NO. DATE DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 COMMUNICATION SHELTER  
 SCALE: 1/8" = 1'-0"  
 SHEET OF SHEETS STA. 5218+82.00 TO STA. 5219+00.00

DATE: 9/09/2014  
 SECTION: 2014-009L  
 COUNTY: ILLINOIS  
 CONTRACT NO.: 60Y00



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

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**NOTES:**

EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

**AECOM**  
 200 EAST MICHIGAN AVENUE, SUITE 1400  
 ANN ARBOR, MI 48106-1500  
 PHONE: (734) 515-7000 FAX: (734) 515-8800

DESIGNED - SDH  
 USER NAME - PINGBAND  
 DRAWN - SDH  
 CHECKED - MJE  
 DATE - 1/29/2020

REVISIONS  
 REVISION NO. DATE DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 1/8" = 1'-0"  
 SHEET

CROSS SECTIONS  
 COMMUNICATION SHELTER  
 OF SHEETS STA. 5219+12.50 TO STA. 5219+90.00

DATE: 9/09/2014  
 SECTION: 2014-009L  
 COUNTY: ILLINOIS  
 CONTRACT NO.: 60Y00  
 TOTAL SHEETS: 263  
 SHEETS NO.: 263

