

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016 ITS-1	ILLINOIS	27	1
CHAMPAIGN & DOUGLAS			CONTRACT NO. 70B72	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

VARIOUS ROUTES
SECTION: 2016 ITS-1
SURVEILLANCE
CHAMPAIGN & DOUGLAS COUNTY

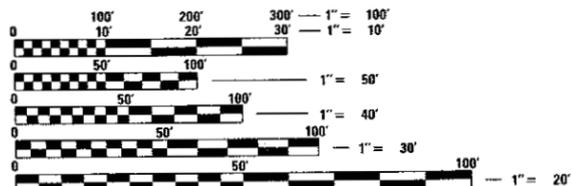
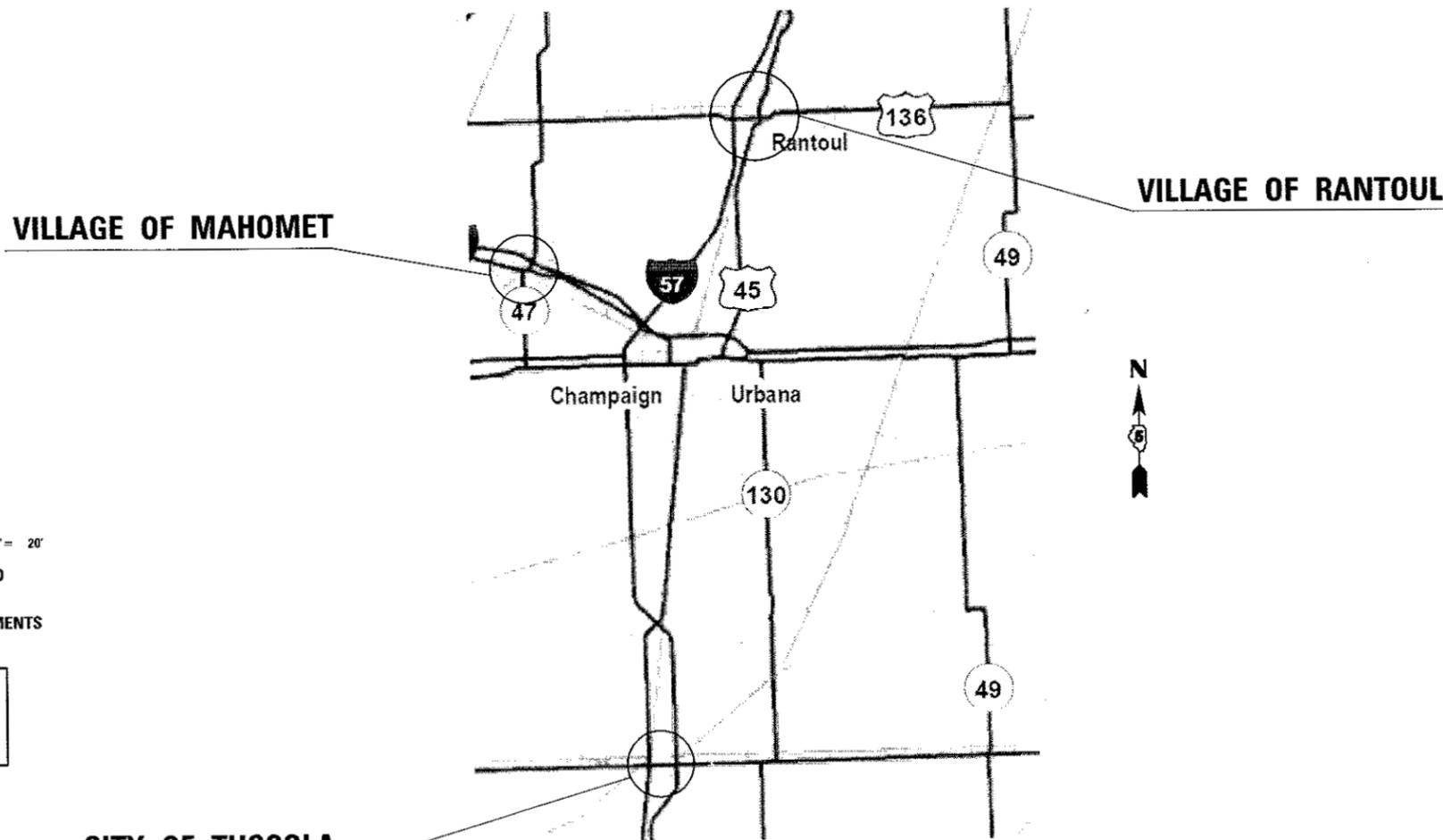
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-5

D95-009-16



LOCATION OF SECTION INDICATED THUS: - ■ -

C-95-009-16



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: JEFF ALLEN
PROJECT MANAGER: ROGER BIGGS
PHONE NUMBER: (217)465-4181
CONTRACT NO. 70B72

CITY OF TUSCOLA

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MAY 10 2017

Kenneth A. Barrett
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

MAY 12 2017
Harmon M. Addison, PE
ENGINEER OF DESIGN AND ENVIRONMENT

Harmon M. Addison
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

- G.N. - 100 ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.
- G.N.-100A ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.
- G.N.- 814 THE PROPOSED HANDHOLE LOCATIONS SHALL BE LOCATED BY THE ENGINEER.

HIGHWAY STANDARDS

Standard	Description
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701006-05	OFF-RD MOVING OPERATIONS, 2L, 2W, 15 FT TO EOP
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15'(4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-11	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701456-04	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701502-07	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTI-LANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-08	URBAN LANE CLOSURE, MULTI-LANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTI-LANE, INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCE
878001-10	CONCRETE FOUNDATION DETAILS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, & GENERAL NOTES
- 3-5 SUMMARY OF QUANTITIES
- 6 RANTOUL ITS POINT LOCATION MAP
- 7-14 RANTOUL ITS LOCATIONS
- 15 MAHOMET ITS POINT LOCATION MAP
- 16-18 MAHOMET ITS LOCATIONS
- 19 TUSCOLA ITS POINT LOCATION MAP
- 20-25 TUSCOLA ITS LOCATIONS
- 26-27 PHASE DESIGNATION DIAGRAMS & DETECTOR LOOP DATA

FILE NAME =	USER NAME = piersebr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, HIGHWAY STANDARD INDEX OF SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\VIL084EBIDINTEG\Illinois.gov\FWIDOT\Documents\IDOT Offices\District 5\Projects\0570\Drawings\0872-shr-plan.dgn	DRAWN Date: 08/27/2016	CHECKED -	REVISED -			VAR.	FY2016 ITS-1	*	27	2
#MODELNAME#	PLOT SCALE = 48,0000 1" = 100'	DATE - 10/27/2016	REVISED -		SHEET OF SHEETS STA. TO STA.	* CHAMPAIGN & DOUGLAS ILLINOIS FED. AID PROJECT CONTRACT NO. 70B72				

SUMMARY OF QUANTITIES

LOCATION OF WORK:

VARIOUS ROUTES

VARIOUS ROUTES

VARIOUS ROUTES

RANTOUL

MAHOMET

TUSCOLA

CHAMPAIGN COUNTY

CHAMPAIGN COUNTY

DOUGLAS COUNTY

FUNDING BREAKOUT:

100% STATE

100% STATE

100% STATE

CONSTRUCTION TYPE CODE:

0021

0021

0021

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN QUANTITY	URBAN QUANTITY	URBAN QUANTITY
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	170.0	87.0	52.0	31.0
44000600	SIDEWALK REMOVAL	SQ FT	187.0	104.0	52.0	31.0
67100100	MOBILIZATION	LSUM	1.0	0.4	0.3	0.3
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1.0		0.5	0.5
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	1.0	1.0		
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	LSUM	1.0		1.0	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1.0	0.5	0.4	0.1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	LSUM	1.0	0.5		0.5
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1.0	0.5	0.3	0.2
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1.0	0.5	0.3	0.2
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	12,296.0	4,424.0	1,681.0	6,191.0
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	1.0	1.0		
81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	1.0			1.0
81400100	HANDHOLE	EACH	33.0	13.0	7.0	13.0

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES

LOCATION OF WORK: VARIOUS ROUTES RANTOUL MAHOMET TUSCOLA
 CHAMPAIGN COUNTY CHAMPAIGN COUNTY DOUGLAS COUNTY
 FUNDING BREAKOUT: 100% STATE 100% STATE 100% STATE
 CONSTRUCTION TYPE CODE: 0021 0021 0021

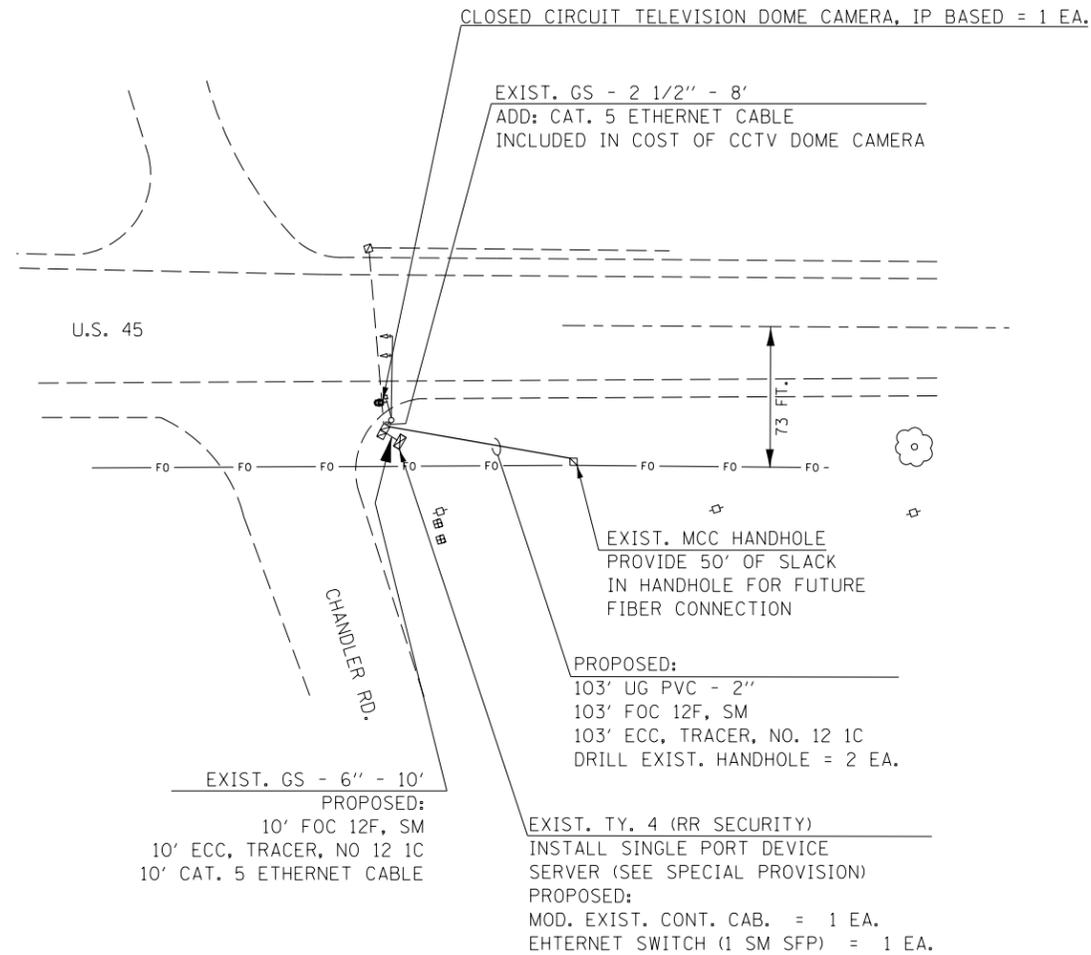
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN QUANTITY	URBAN QUANTITY	URBAN QUANTITY
82700100	TRANSFORMER, GENERAL PURPOSE	EACH	1.0	1.0		
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	3.0	2.0		1.0
87300901	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	13,521.0	4,553.0	2,212.0	6,756.0
87301865	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 8 3C	FOOT	2,325.0	1,107.0	664.0	554.0
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	24.0	8.0	8.0	8.0
87900200	DRILL EXISTING HANDHOLE	EACH	43.0	25.0	10.0	8.0
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	3.0	2.0		1.0
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	23.0	12.0	6.0	5.0
89502220	MODIFY EXISTING CONCRETE FOUNDATION	EACH	2.0	1.0		1.0
X0323906	CAMERA POLE, 45 FT	EACH	3.0	1.0	1.0	1.0
X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	3.0	1.0	1.0	1.0
X0326266	ETHERNET SWITCH	EACH	30.0	15.0	7.0	8.0
X0326905	CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	6.0	4.0	1.0	1.0
X0326964	FIBER OPTIC INTERCONNECT CABINET	EACH	1.0			1.0

* DENOTES SPECIALTY ITEM

LOCATION 1

US 45 (LIBERTY DR)
&
CHANDLER RD

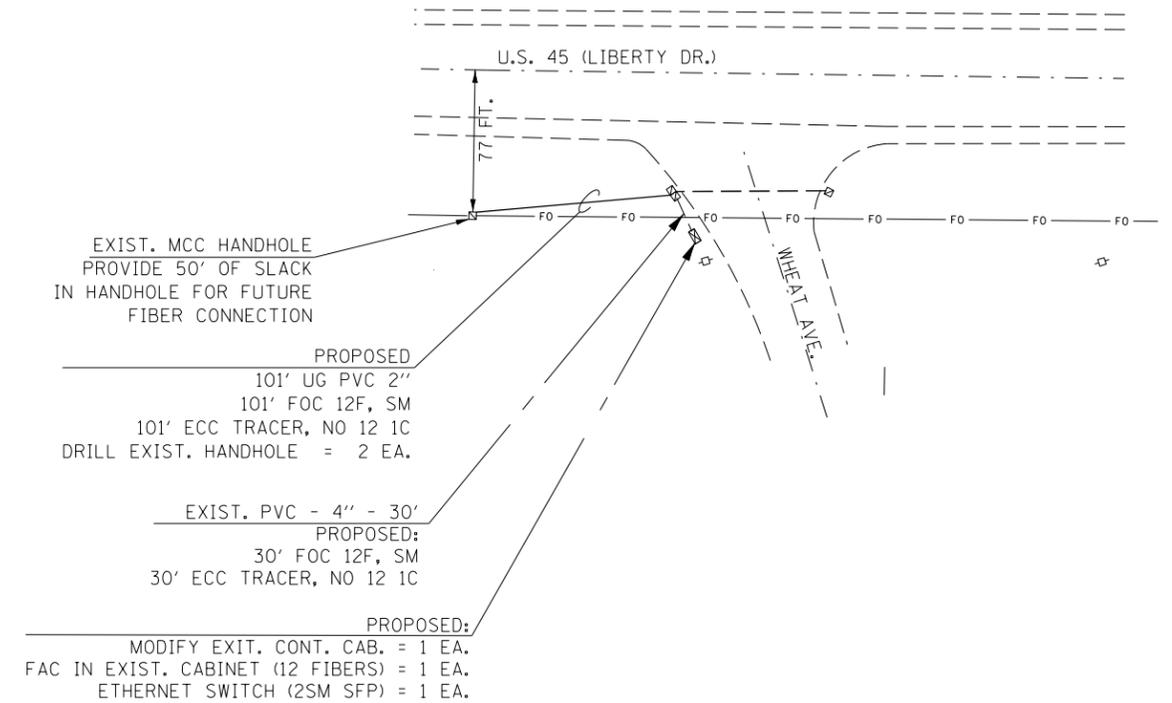
PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



LOCATION 2

US 45 (LIBERTY DR)
&
WHEAT AVE

PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS

LOCATION 1

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	103
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	113
DRILL EXISTING HAND HOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TV DOME CAMERA, IP BASED	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	EACH	185

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

BILL OF MATERIALS

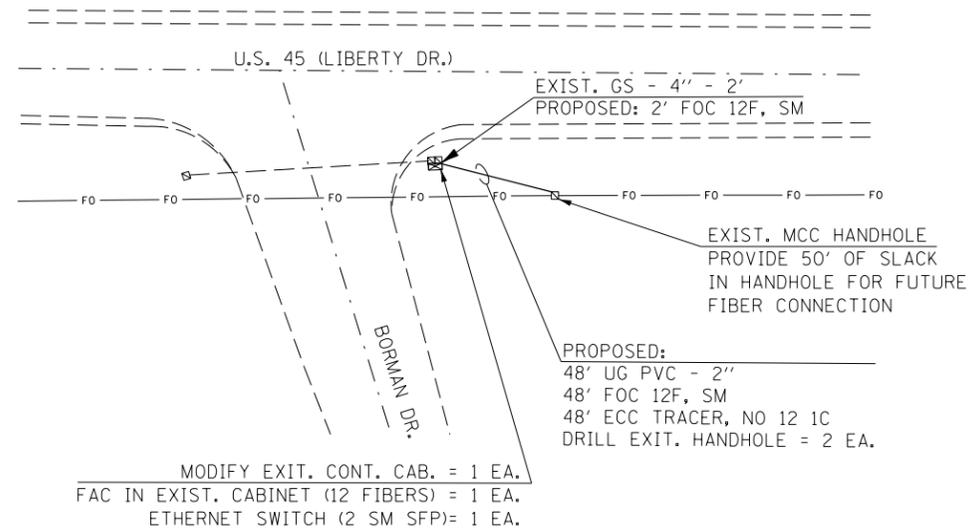
LOCATION 2

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	101
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	131
DRILL EXISTING HAND HOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	203

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

MCC = METRO COMMUNICATIONS COMPANY

LOCATION 3
 US 45 (LIBERTY DR)
 &
 BORMAN DR
 PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT

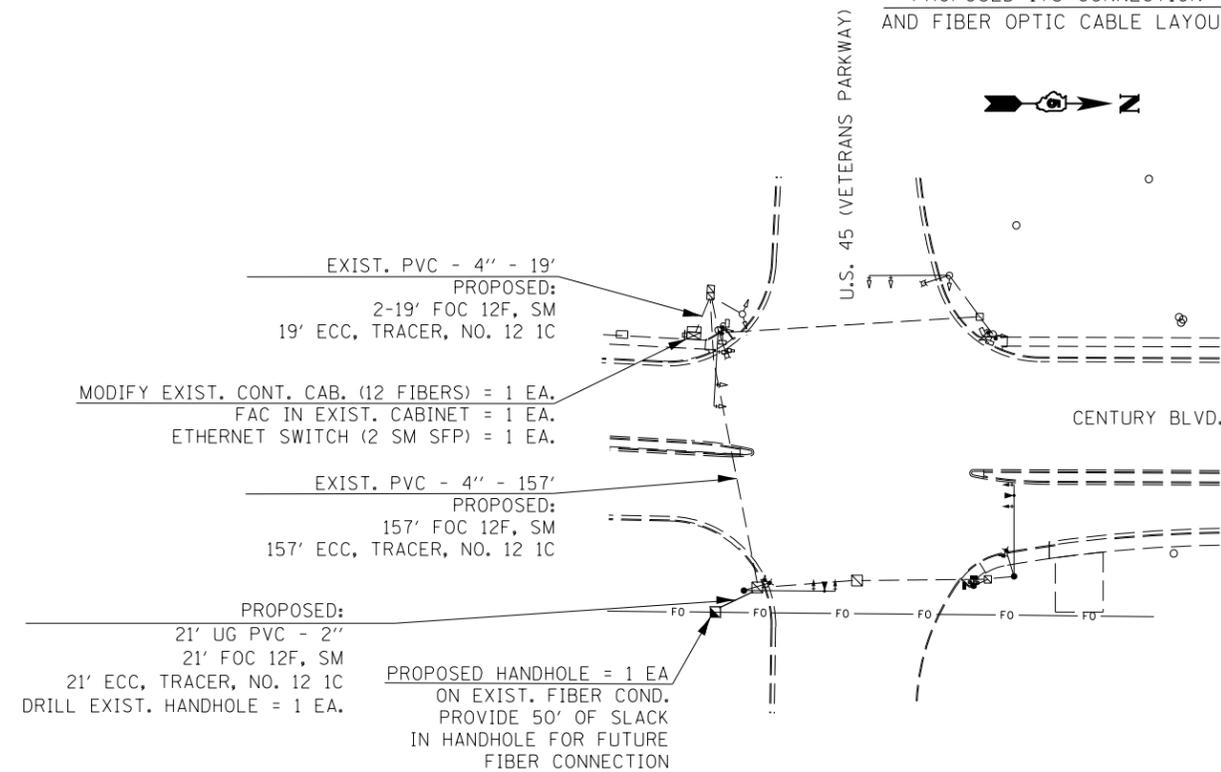


BILL OF MATERIALS
LOCATION 3

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	48
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	48
DRILL EXISTING HAND HOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	122

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

LOCATION 4
 US 45 (VETERANS PARKWAY)
 &
 US 45 (CENTURY BLVD)
 PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT



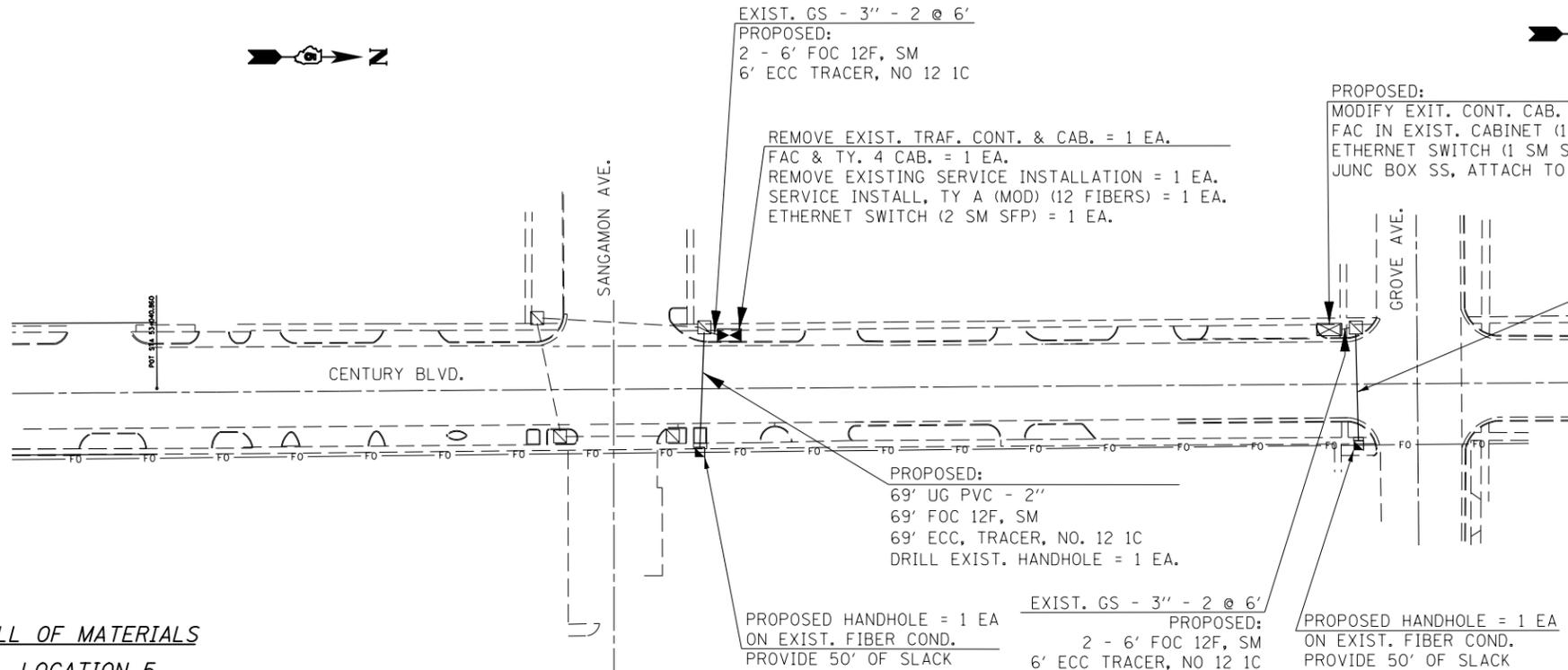
BILL OF MATERIALS
LOCATION 4

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	21
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	197
DRILL EXISTING HAND HOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	276

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

MCC = METRO COMMUNICATIONS COMPANY

LOCATION 5
 US 45 (CENTURY BLVD)
 &
 SANGAMON AVE
 PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS
LOCATION 5

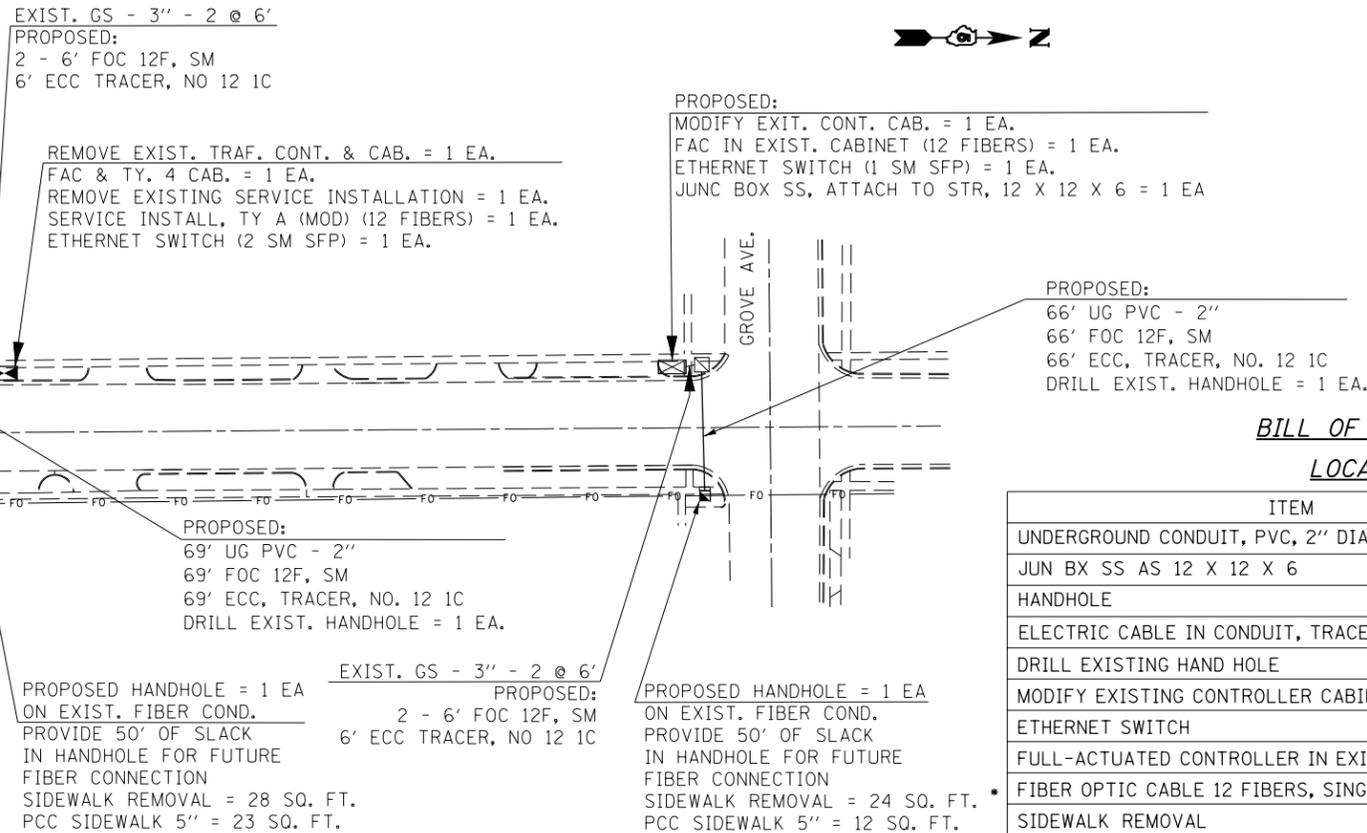
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	69
HANDHOLE	EACH	1
FAC TY 4 CAB	EACH	1
** INDUCTIVE LOOP DETECTOR, RACK MOUNTED	EACH	7
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	75
DRILL EXISTING HAND HOLE	EACH	1
ETHERNET SWITCH	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
SERV INSTALL TY A MOD	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	141
REM EX TRAF CONT & CAB	EACH	1
SIDEWALK REMOVAL	SQ FT	28
PCC SIDEWALK 5"	SQ FT	23

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

** SEE SHEET 26 FOR DETAILS

MCC = METRO COMMUNICATIONS COMPANY

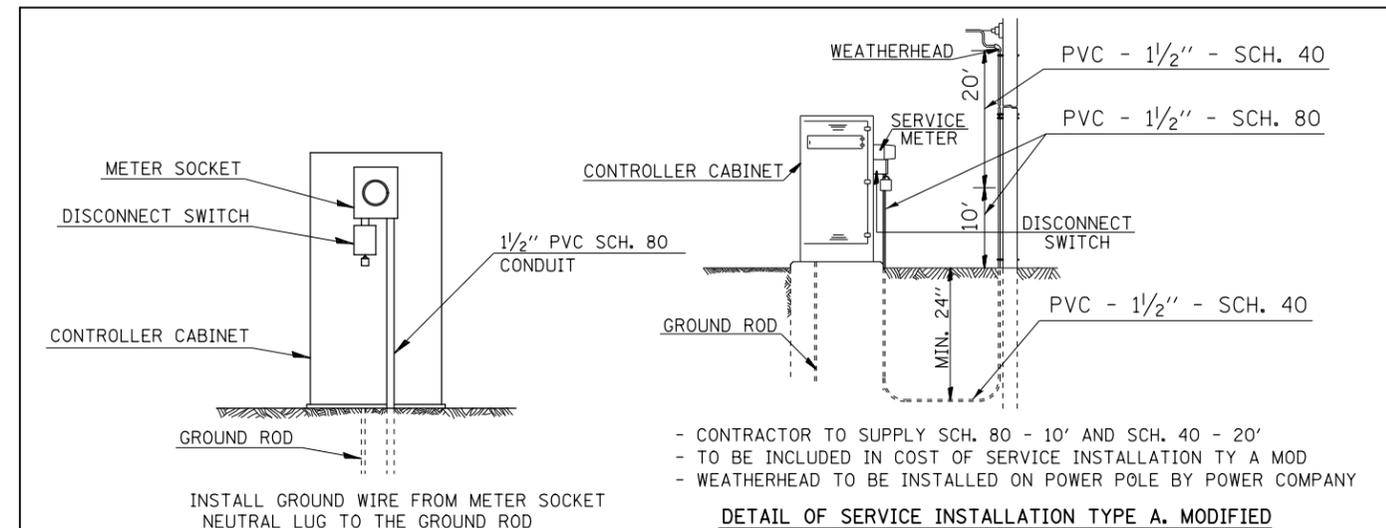
LOCATION 6
 US 45 (CENTURY BLVD)
 &
 GROVE AVE
 PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS
LOCATION 6

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	66
JUN BX SS AS 12 X 12 X 6	EACH	1
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	72
DRILL EXISTING HAND HOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	138
SIDEWALK REMOVAL	SQ FT	24
PCC SIDEWALK 5"	SQ FT	12

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.



- CONTRACTOR TO SUPPLY SCH. 80 - 10' AND SCH. 40 - 20'
- TO BE INCLUDED IN COST OF SERVICE INSTALLATION TY A MOD
- WEATHERHEAD TO BE INSTALLED ON POWER POLE BY POWER COMPANY

DETAIL OF SERVICE INSTALLATION TYPE A, MODIFIED

FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0579\Drawings\Design\RD\70872-Rantoul.ITS.dwg		CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 10/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RANTOUL LOCATIONS 5 & 6

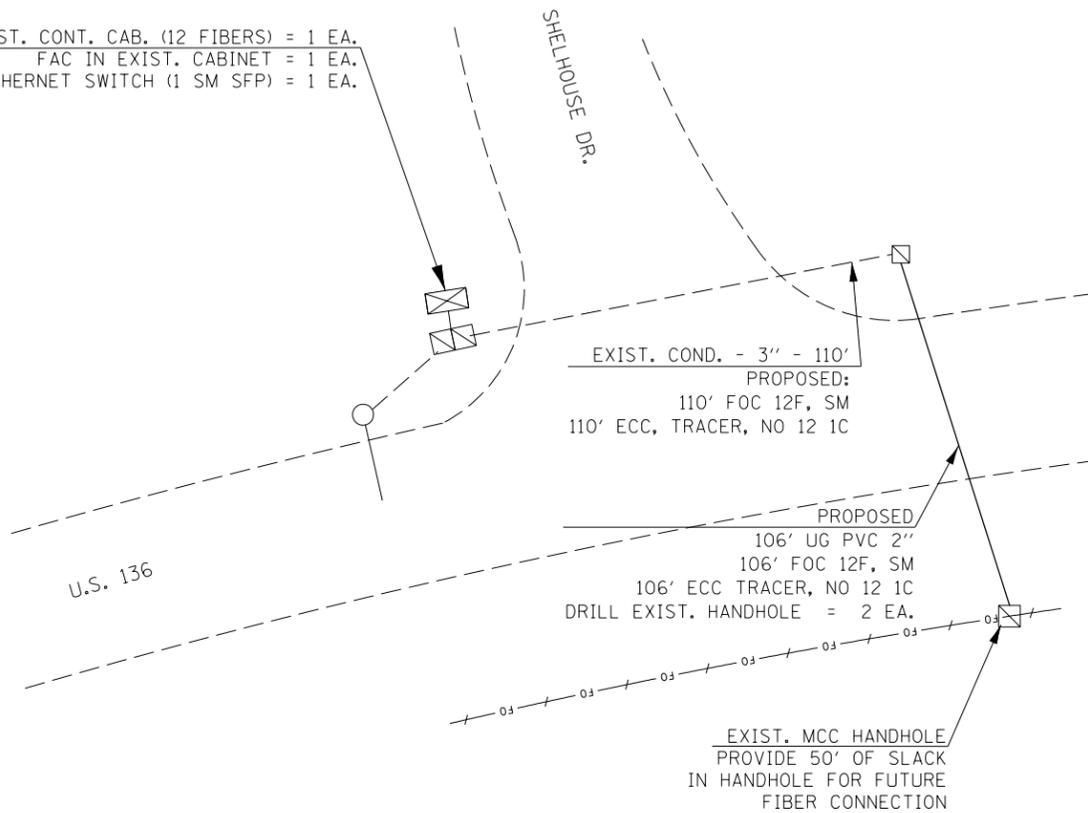
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016 ITS-1	CHAMPAIGN	27	9
* CHAMPAIGN & DOUGLAS		CONTRACT NO. 70B72		
ILLINOIS FED. AID PROJECT				

LOCATION 7
US 136
&
SHELHOUSE DR.
PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



MODIFY EXIST. CONT. CAB. (12 FIBERS) = 1 EA.
FAC IN EXIST. CABINET = 1 EA.
ETHERNET SWITCH (1 SM SFP) = 1 EA.



BILL OF MATERIALS
LOCATION 7

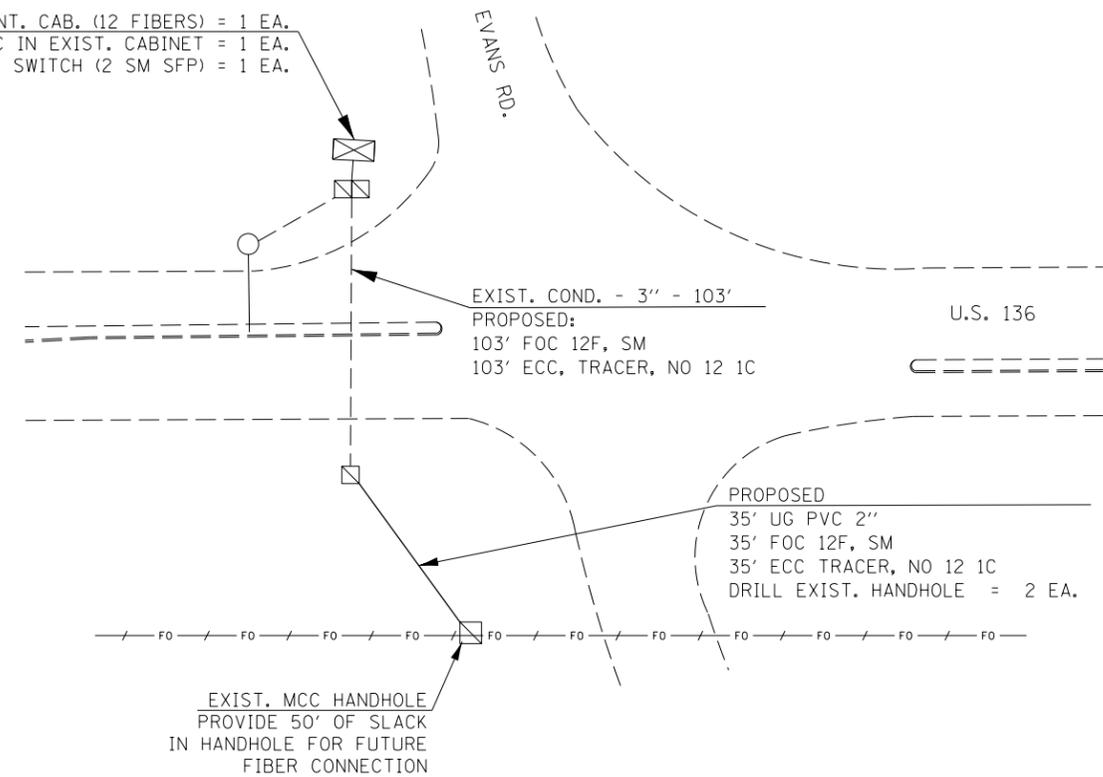
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	106
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	216
DRILL EXISTING HAND HOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	297

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

LOCATION 8
US 136
&
EVANS RD.
PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



MODIFY EXIST. CONT. CAB. (12 FIBERS) = 1 EA.
FAC IN EXIST. CABINET = 1 EA.
ETHERNET SWITCH (2 SM SFP) = 1 EA.



BILL OF MATERIALS
LOCATION 8

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	35
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	138
DRILL EXISTING HAND HOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	219

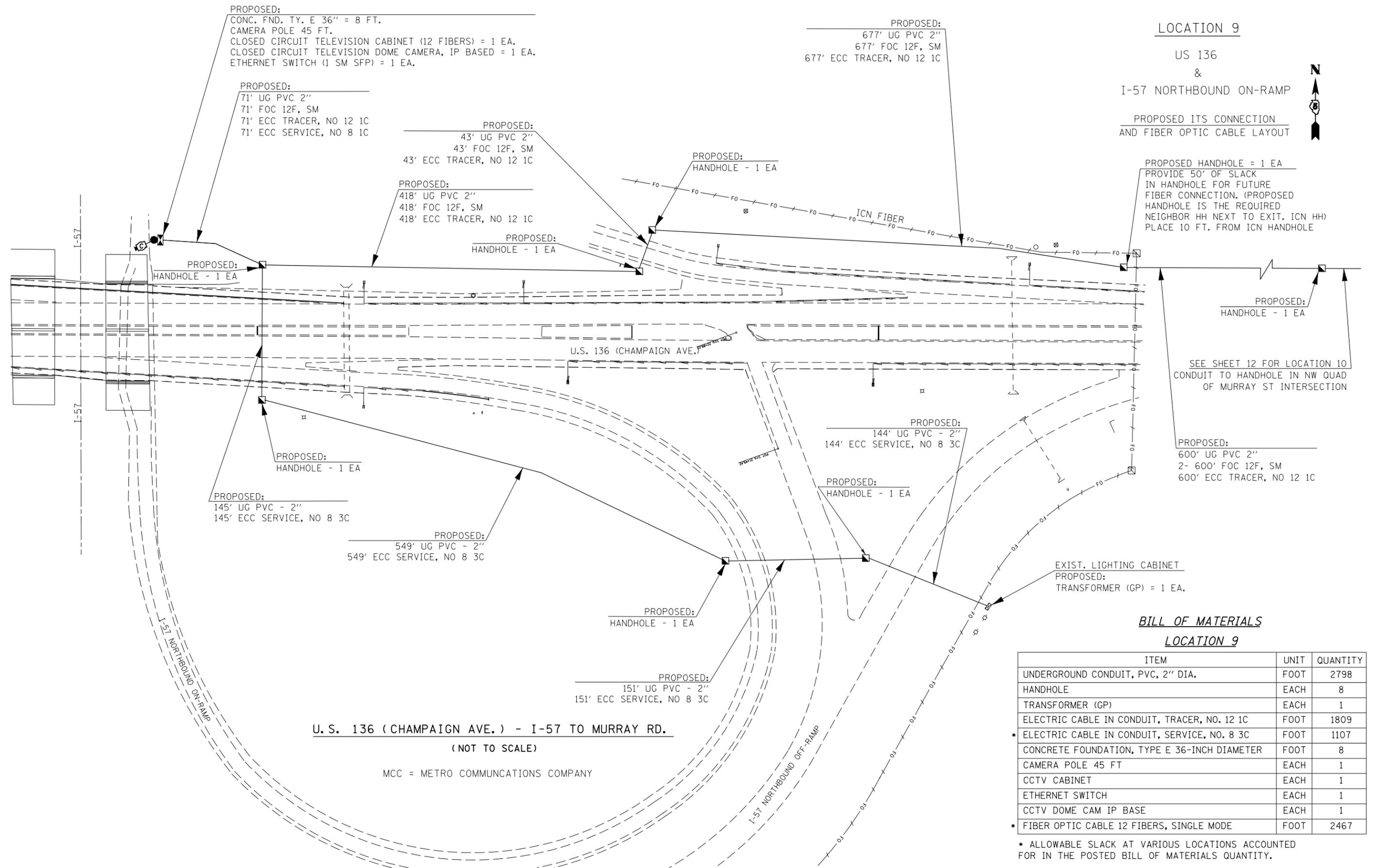
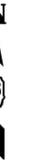
* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

MCC = METRO COMMUNICATIONS COMPANY

LOCATION 9

US 136
&
I-57 NORTHBOUND ON-RAMP

PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



PROPOSED HANDHOLE = 1 EA
PROVIDE 50' OF SLACK
IN HANDHOLE FOR FUTURE
FIBER CONNECTION. (PROPOSED
HANDHOLE IS THE REQUIRED
NEIGHBOR HH NEXT TO EXIT. ICN HH)
PLACE 10 FT. FROM ICN HANDHOLE

PROPOSED:
HANDHOLE - 1 EA

SEE SHEET 12 FOR LOCATION 10
CONDUIT TO HANDHOLE IN NW QUAD
OF MURRAY ST INTERSECTION

PROPOSED:
600' UG PVC 2"
2- 600' FOC 12F, SM
600' ECC TRACER, NO 12 1C

EXIST. LIGHTING CABINET
PROPOSED:
TRANSFORMER (GP) = 1 EA.

**BILL OF MATERIALS
LOCATION 9**

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	2798
HANDHOLE	EACH	8
TRANSFORMER (GP)	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	1809
* ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 8 3C	FOOT	1107
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	8
CAMERA POLE 45 FT	EACH	1
CCTV CABINET	EACH	1
ETHERNET SWITCH	EACH	1
CCTV DOME CAM IP BASE	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	2467

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED
FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

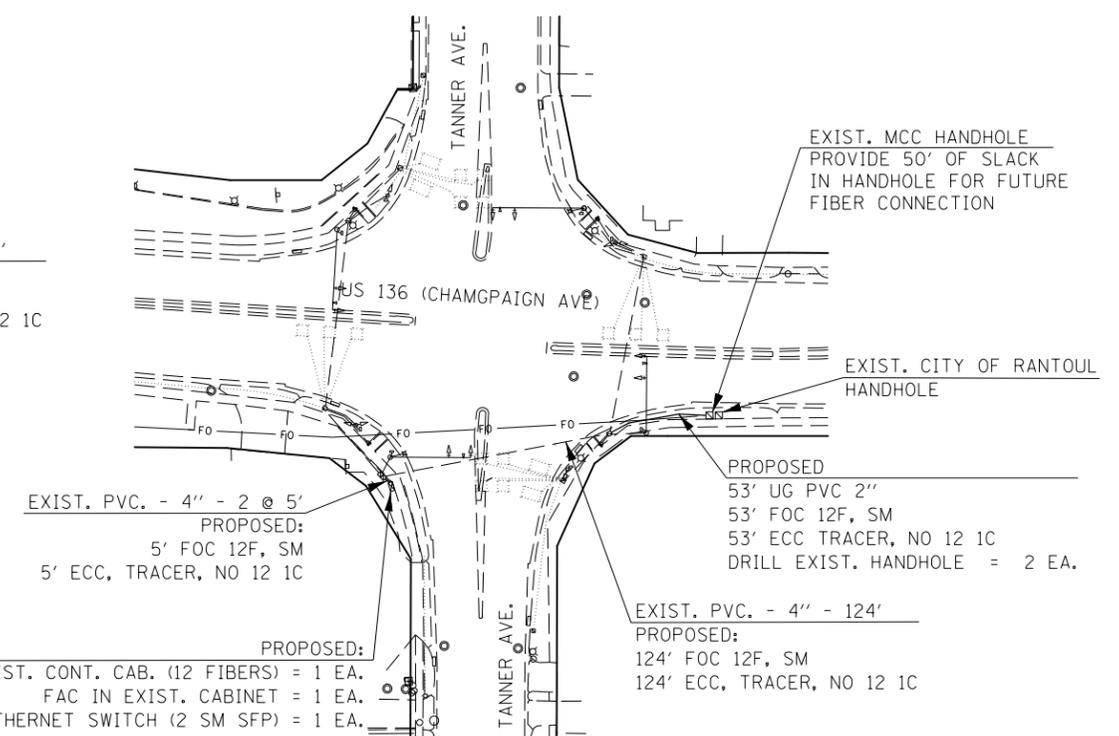
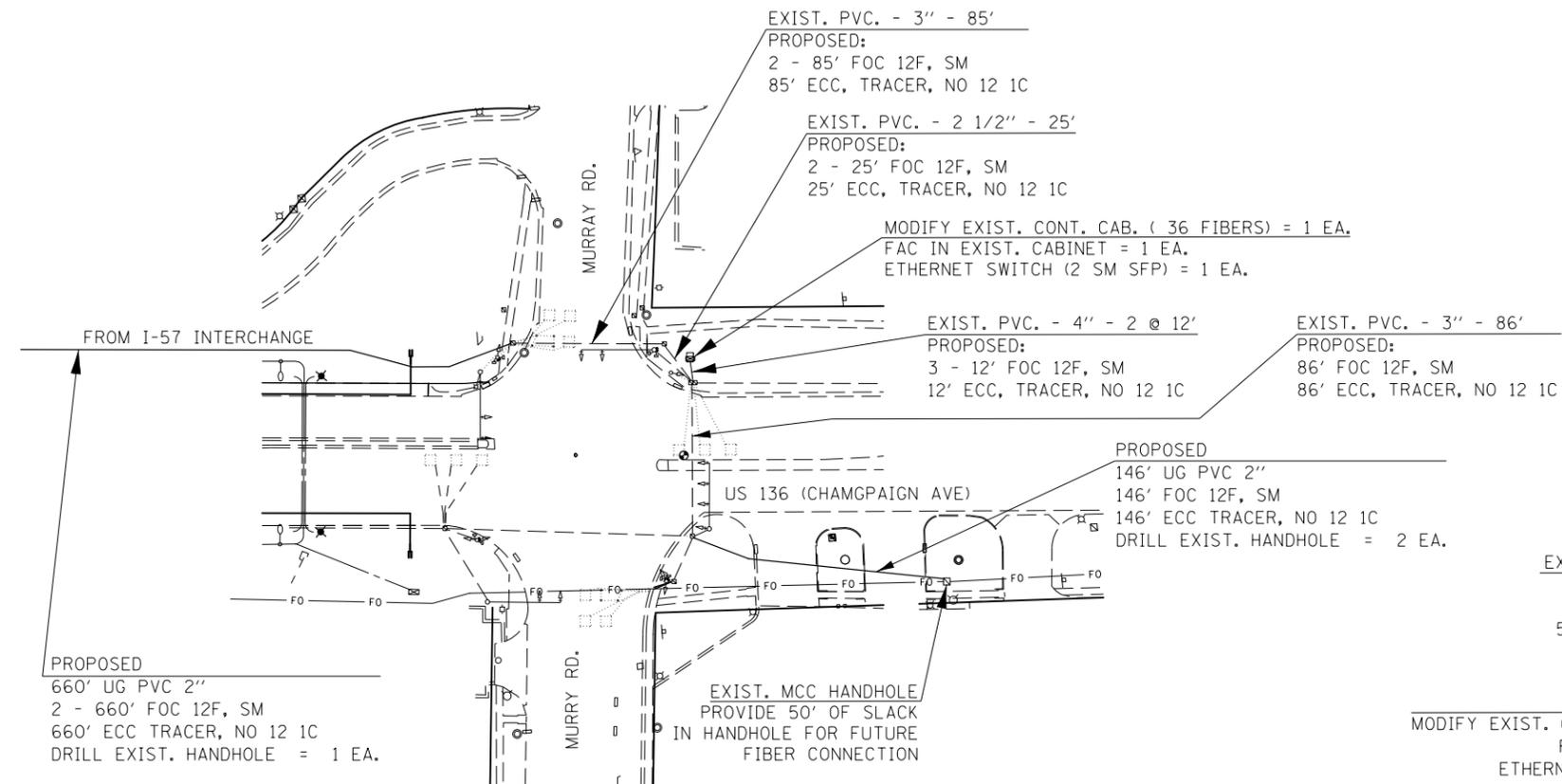
U. S. 136 (CHAMPAIGN AVE.) - I-57 TO MURRAY RD.
(NOT TO SCALE)

MCC = METRO COMMUNICATIONS COMPANY

LOCATION 10
 US 136 (CHAMPAIGN AVE.)
 &
 MURRAY RD.
 PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT



LOCATION 11
 US 136 (CHAMPAIGN AVE.)
 &
 TANNER AVE.
 PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS
LOCATION 10

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	806
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	1014
DRILL EXISTING HAND HOLE	EACH	3
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	1957

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

BILL OF MATERIALS
LOCATION 11

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	53
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	182
DRILL EXISTING HAND HOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	261

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

MCC = METRO COMMUNICATIONS COMPANY

FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -
pw:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0579\Drawings\Design\RD70872-Rantoul.ITS.dwg		DRAWN - RDB	REVISED -
\$MODELNAME\$	PLOT SCALE = 100.0000' / 1".	CHECKED -	REVISED -
	PLOT DATE = 10/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

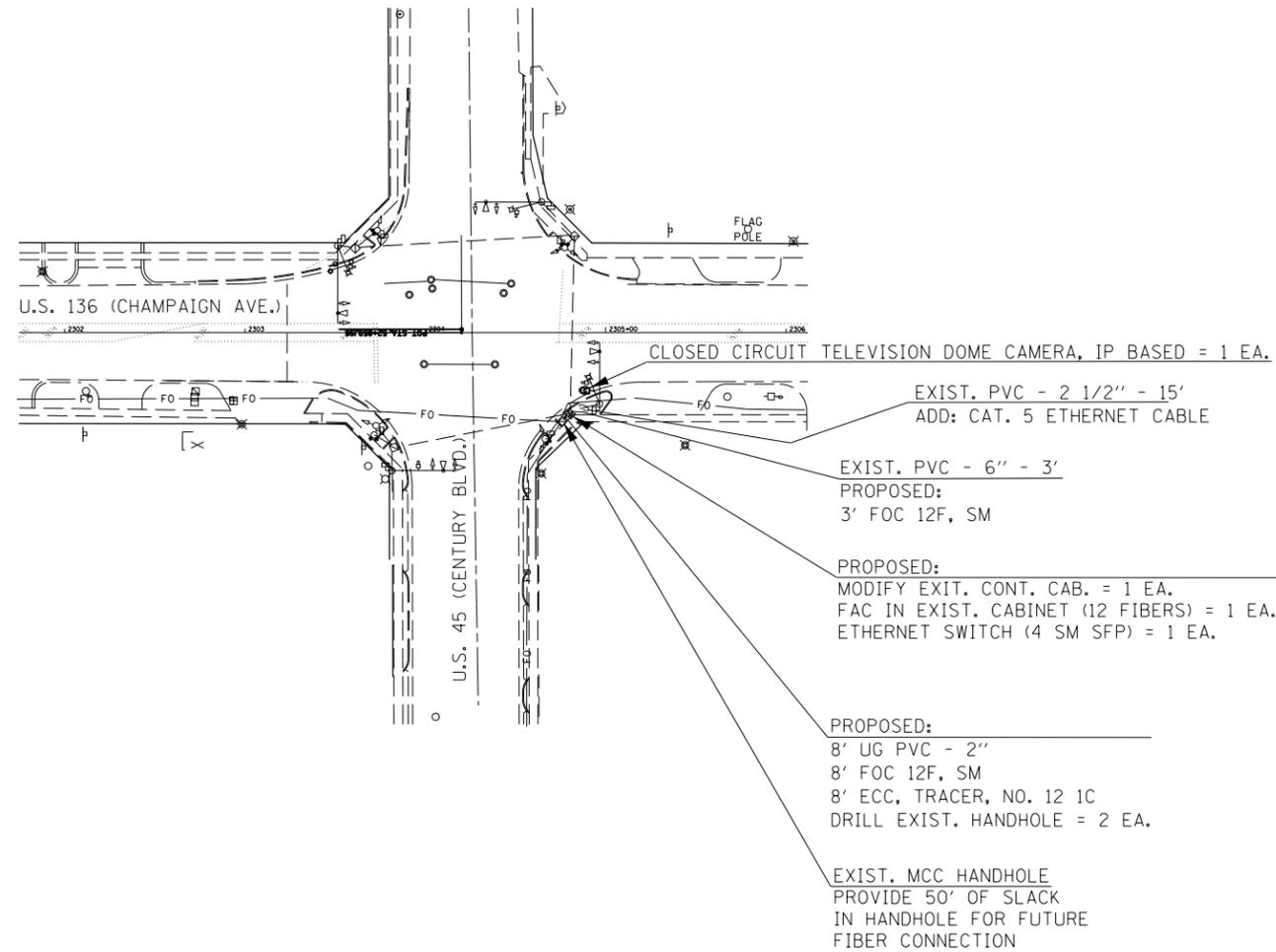
RANTOUL LOCATIONS 10 & 11

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016 ITS-1	*	27	12
* CHAMPAIGN & DOUGLAS			CONTRACT NO. 70B72	
ILLINOIS FED. AID PROJECT				

LOCATION 12

US 136 (CHAMPAIGN AVE.)
&
US 45 (CENTURY BLVD)
PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



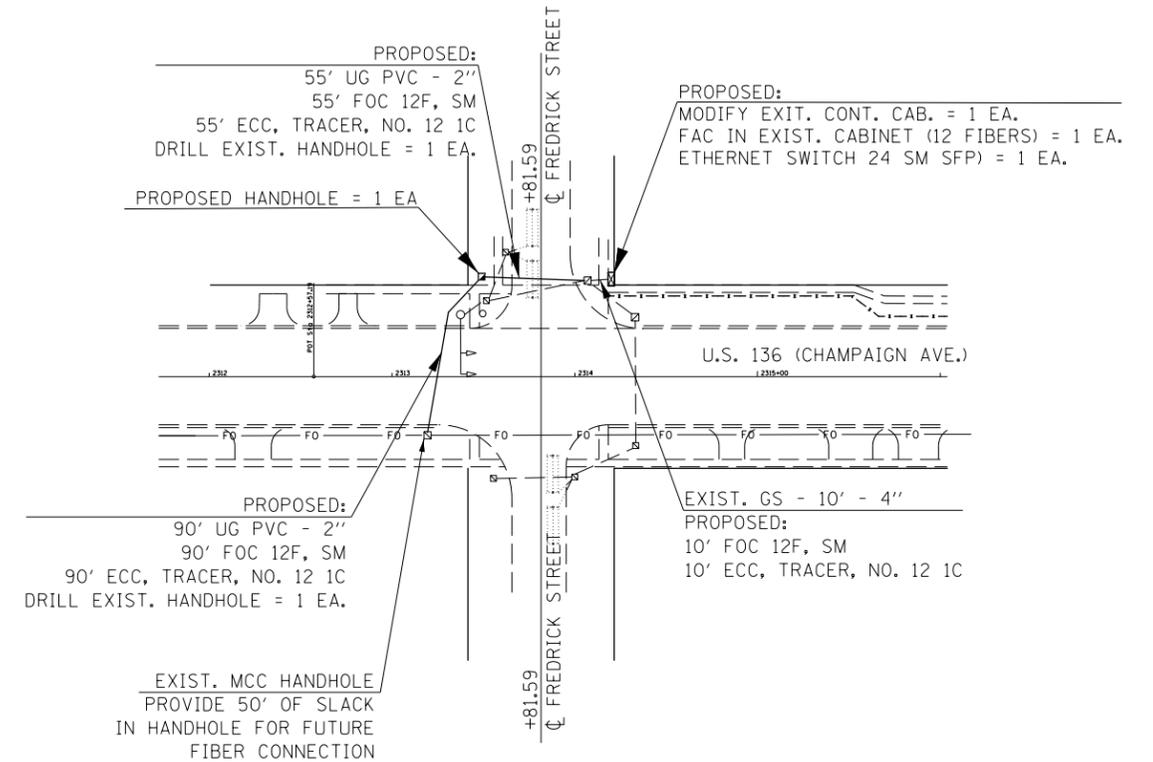
BILL OF MATERIALS
LOCATION 12

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	8
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	8
DRILL EXISTING HAND HOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
CCTV DOME CAM IP BASE	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	83

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

LOCATION 13

US 136 (CHAMPAIGN AVE.)
&
FREDRICK ST.
PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



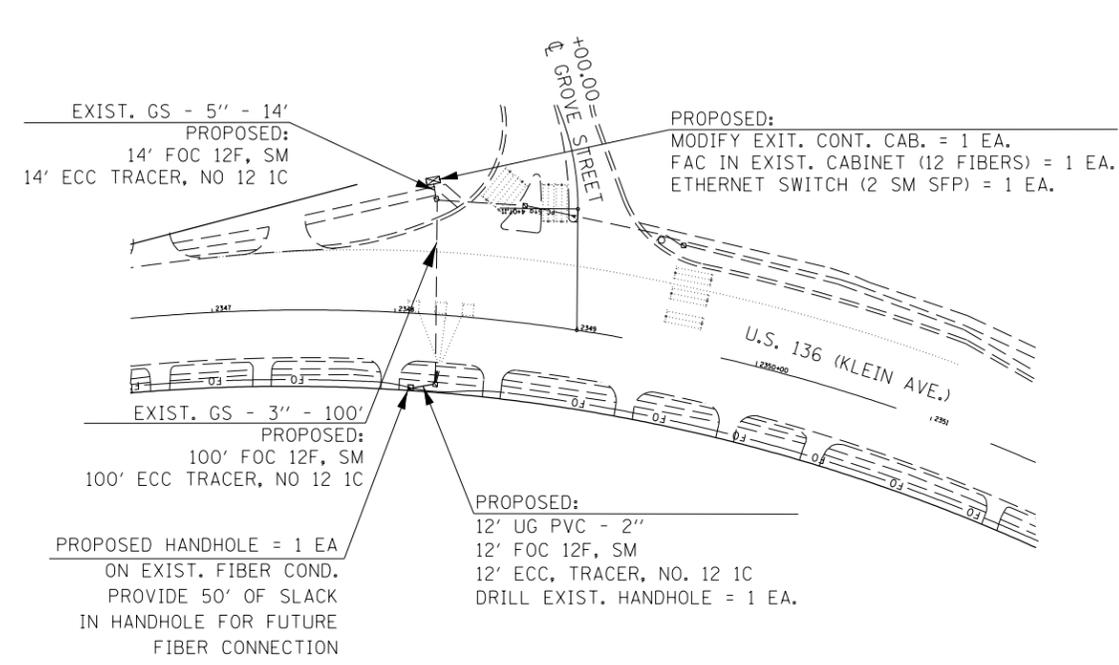
BILL OF MATERIALS
LOCATION 13

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	145
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	155
DRILL EXISTING HAND HOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
* FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	227

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

MCC = METRO COMMUNICATIONS COMPANY

LOCATION 14
US 136 (KLEIN AVE)
&
GROVE AVE.
PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT

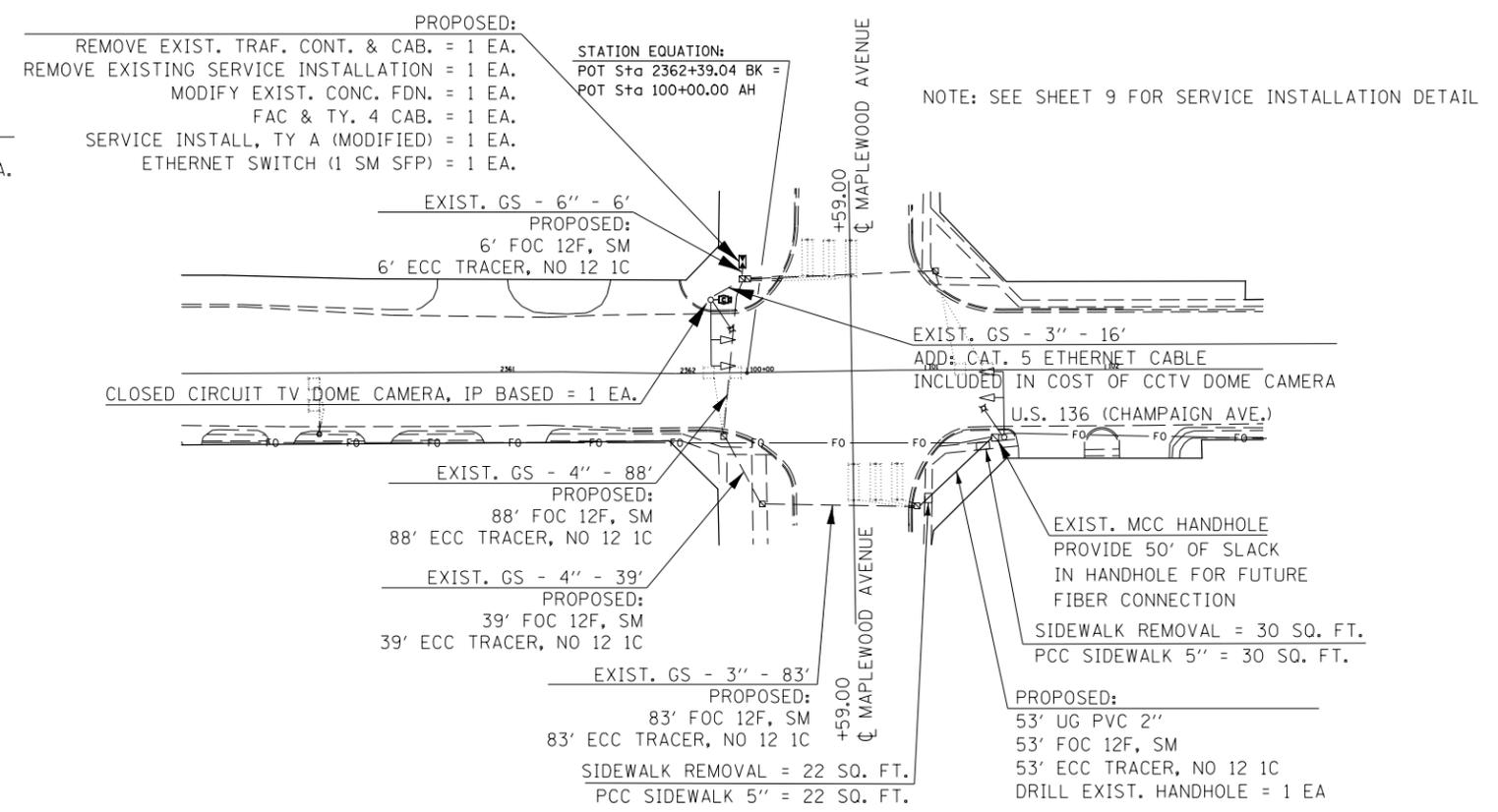


BILL OF MATERIALS
LOCATION 14

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	12
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	126
DRILL EXISTING HAND HOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	198

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

LOCATION 15
US 136 (GROVE AVE.)
&
MAPLEWOOD AVE.
PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS
LOCATION 15

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	53
FAC TY 4 CAB	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	269
DRILL EXISTING HAND HOLE	EACH	2
MODIFY EXISTING CONCRETE FOUNDATION	EACH	1
ETHERNET SWITCH	EACH	1
CCTV DOME CAM IP BASE	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
SERV INSTALL TY A MOD	EACH	1
** FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* INDUCTIVE LOOP DETECTOR, RACK MOUNTED	EACH	10
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	361
REM EX TRAFFIC CONT & CAB	EACH	1
SIDEWALK REMOVAL	SQ FT	52
PCC SIDEWALK 5"	SQ FT	52

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

** SEE SHEET 26 FOR DETAILS

MCC = METRO COMMUNICATIONS COMPANY

VILLAGE OF MAHOMET
 POINT LOCATION MAP
 FOR
 PROPOSED ITS CONNECTIONS
 AND FIBER OPTIC INSTALLATIONS

- 1 IL 47 (DIVISION ST) & US 150 (OAK ST/IL 47)
- 2 US 150/IL 47 (OAK ST) & IL 47 (LOMBARD ST)
- 3 IL 47 (LOMBARD ST) & FRANKLIN ST
- 4 IL 47 & I-74 INTERCHANGE
- 5 US 150/IL 10 & CHURCHILL RD
- 6 US 150/IL 10 & PRAIRIEVIEW RD



FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -
pw:\IL084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\057\Drawings\Design\0872-Mahomet.ITS		CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 10/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VILLAGE OF MAHOMET
 POINT LOCATION MAP

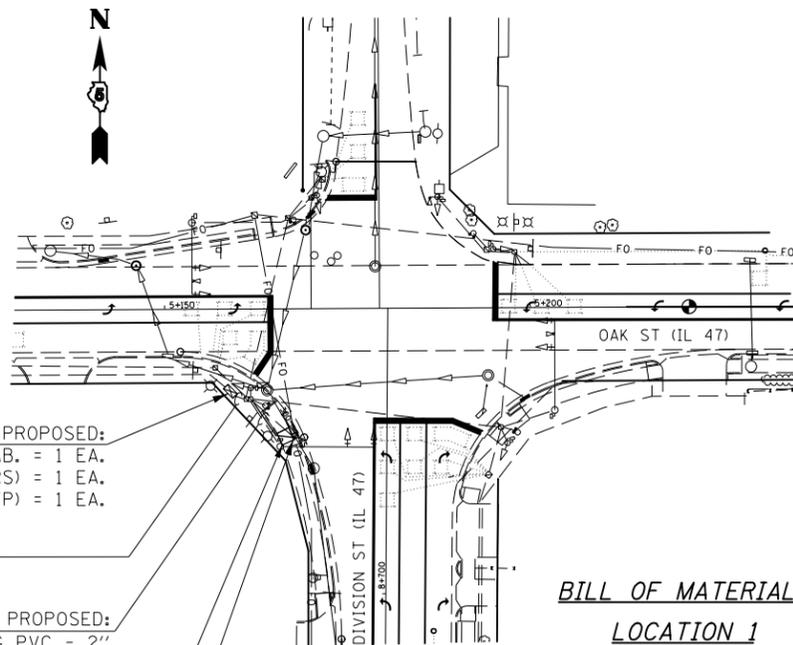
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016 ITS-1	•	27	15
• CHAMPAIGN & DOUGLAS			CONTRACT NO. 70B72	
ILLINOIS FED. AID PROJECT				

LOCATION 1

US 150/IL 47 (OAK ST)
&
IL 47 (DIVISION ST)

PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



PROPOSED:
MODIFY EXIT. CONT. CAB. = 1 EA.
FAC IN EXIST. CABINET (12 FIBERS) = 1 EA.
ETHERNET SWITCH (1 SM SFP) = 1 EA.

EXIST. PVC - 6" - 8'
PROPOSED:
8' FOC 12F, SM
8' ECC, TRACER, NO 12 1C

PROPOSED:
30' UG PVC - 2"
30' FOC 12F, SM
30' ECC, TRACER, NO. 12 1C
DRILL EXIST. HANDHOLE = 1 EA.

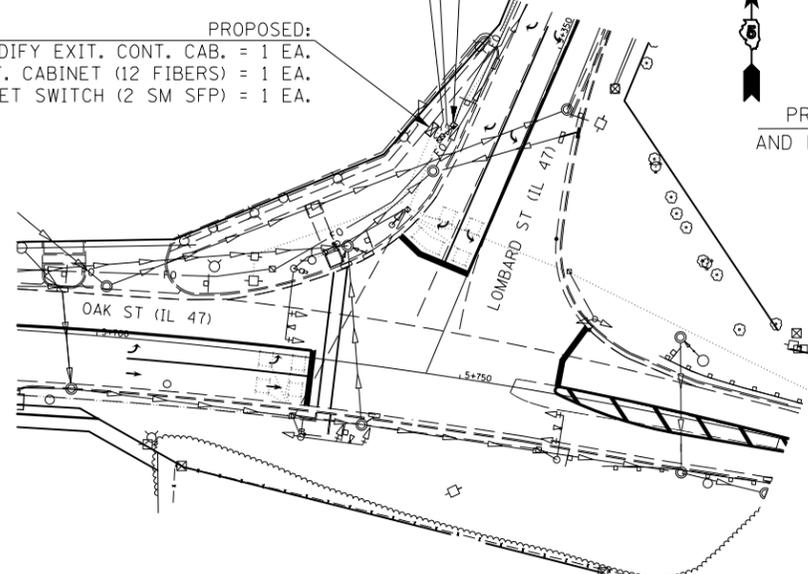
SIDEWALK REMOVAL = 52 SQ FT
PCC SIDEWALK 5" = 52 SQ FT

PROPOSED HANDHOLE = 1 EA
ON EXIST. FIBER COND.
PROVIDE 50' OF SLACK
IN HANDHOLE FOR FUTURE
FIBER CONNECTION

PROPOSED:
6' UG PVC - 2"
6' FOC 12F, SM
6' ECC, TRACER, NO. 12 1C
DRILL EXIST. HANDHOLE = 1 EA.

EXIST. PVC - 6" - 7'
PROPOSED:
7' FOC 12F, SM
7' ECC, TRACER, NO 12 1C

PROPOSED:
MODIFY EXIT. CONT. CAB. = 1 EA.
FAC IN EXIST. CABINET (12 FIBERS) = 1 EA.
ETHERNET SWITCH (2 SM SFP) = 1 EA.



PROPOSED HANDHOLE = 1 EA
ON EXIST. FIBER COND.
PROVIDE 50' OF SLACK
IN HANDHOLE FOR FUTURE
FIBER CONNECTION

LOCATION 2

US 150/IL 47(OAK ST)
&
IL 47 (LOMBARD ST)

PROPOSED ITS CONNECTION -
AND FIBER OPTIC CABLE LAYOUT

BILL OF MATERIALS

LOCATION 2

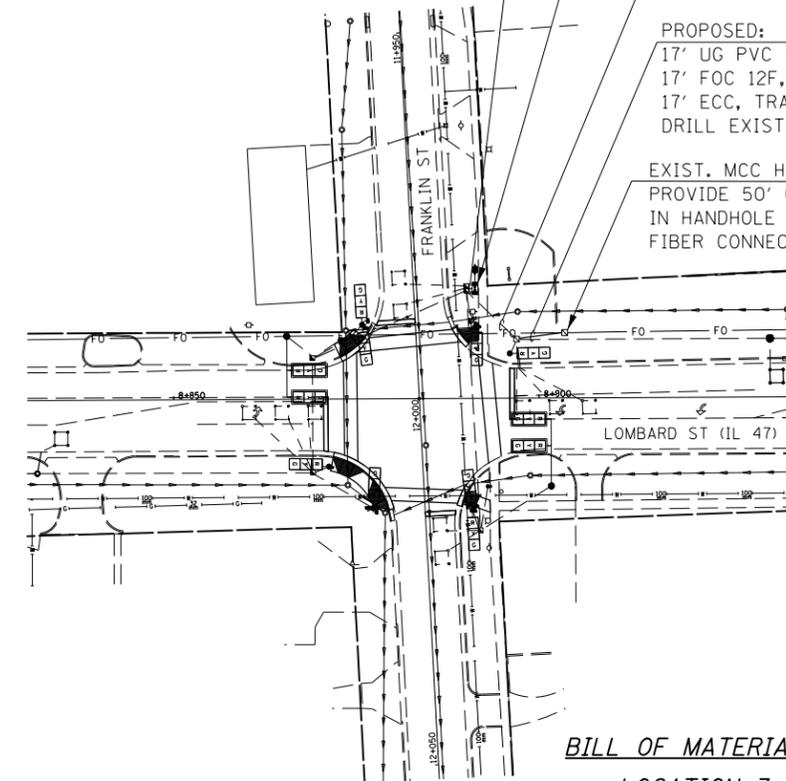
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	6
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	13
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	85

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

LOCATION 3

IL 47 (LOMBARD ST)
&
FRANKLIN ST.

PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



EXIST. PVC - 5" - 5'
PROPOSED: 5' FOC 12F, SM

PROPOSED:
MODIFY EXIT. CONT. CAB. (12 FIBERS) = 1 EA.
ETHERNET SWITCH (2 SM SFP) = 1 EA.

EXIST. PVC - 2" - 35'
PROPOSED:
35' FOC 12F, SM
35' ECC, TRACER, NO 12 1C

PROPOSED:
17' UG PVC - 2"
17' FOC 12F, SM
17' ECC, TRACER, NO. 12 1C
DRILL EXIST. HANDHOLE = 2 EA.

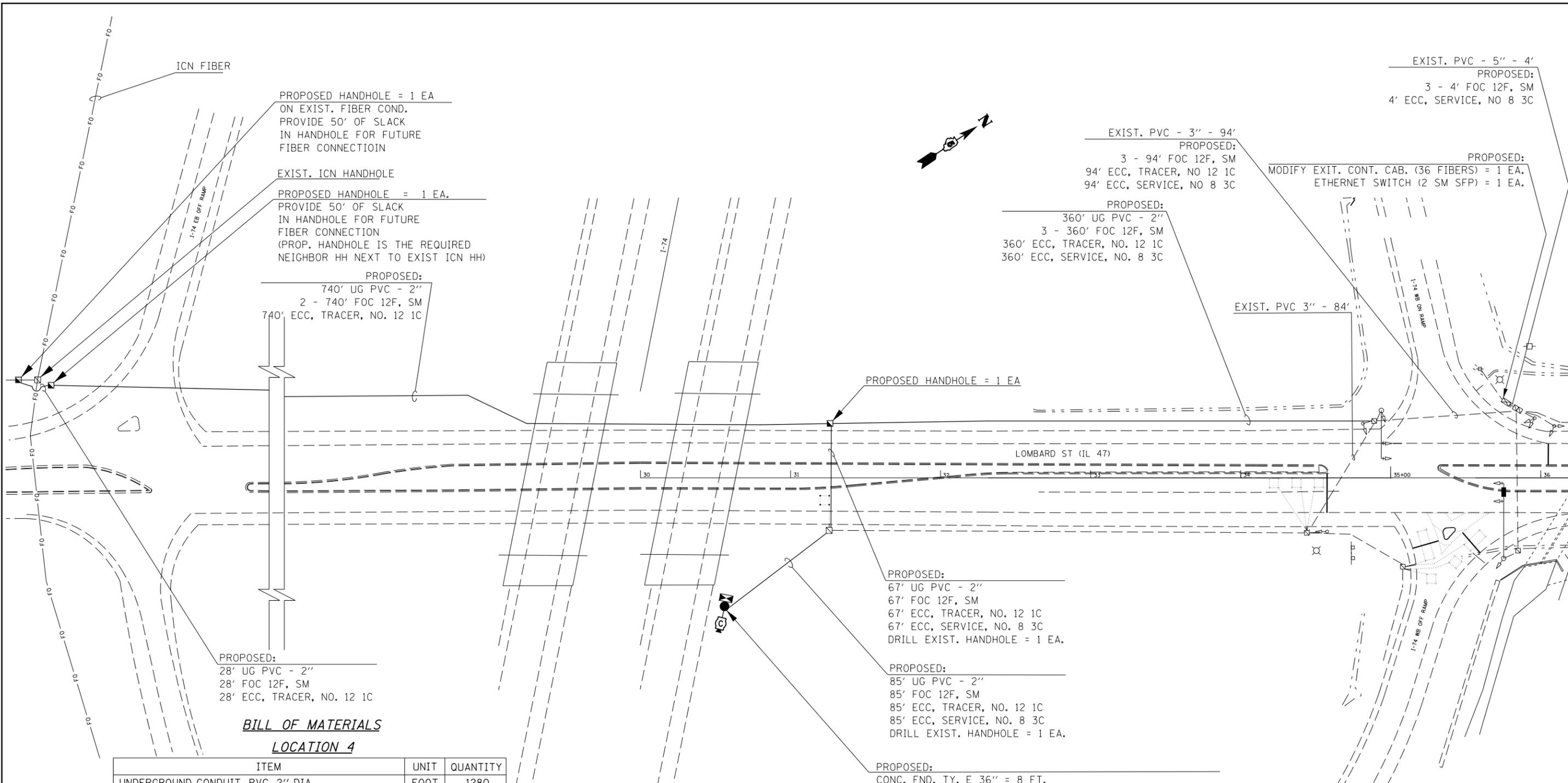
EXIST. MCC HANDHOLE
PROVIDE 50' OF SLACK
IN HANDHOLE FOR FUTURE
FIBER CONNECTION

BILL OF MATERIALS
LOCATION 3

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	17
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	52
DRILL EXISTING HANDHOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	136

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

MCC = METRO COMMUNICATIONS COMPANY



PROPOSED HANDHOLE = 1 EA
ON EXIST. FIBER COND.
PROVIDE 50' OF SLACK
IN HANDHOLE FOR FUTURE
FIBER CONNECTION

EXIST. ICN HANDHOLE
PROPOSED HANDHOLE = 1 EA.
PROVIDE 50' OF SLACK
IN HANDHOLE FOR FUTURE
FIBER CONNECTION
(PROP. HANDHOLE IS THE REQUIRED
NEIGHBOR HH NEXT TO EXIST ICN HH)

PROPOSED:
740' UG PVC - 2"
2 - 740' FOC 12F, SM
740' ECC, TRACER, NO. 12 1C

PROPOSED:
28' UG PVC - 2"
28' FOC 12F, SM
28' ECC, TRACER, NO. 12 1C

EXIST. PVC - 3" - 94'
PROPOSED:
3 - 94' FOC 12F, SM
94' ECC, TRACER, NO. 12 1C
94' ECC, SERVICE, NO. 8 3C

PROPOSED:
MODIFY EXIT. CONT. CAB. (36 FIBERS) = 1 EA.
ETHERNET SWITCH (2 SM SFP) = 1 EA.

PROPOSED:
360' UG PVC - 2"
3 - 360' FOC 12F, SM
360' ECC, TRACER, NO. 12 1C
360' ECC, SERVICE, NO. 8 3C

PROPOSED HANDHOLE = 1 EA

PROPOSED:
67' UG PVC - 2"
67' FOC 12F, SM
67' ECC, TRACER, NO. 12 1C
67' ECC, SERVICE, NO. 8 3C
DRILL EXIST. HANDHOLE = 1 EA.

PROPOSED:
85' UG PVC - 2"
85' FOC 12F, SM
85' ECC, TRACER, NO. 12 1C
85' ECC, SERVICE, NO. 8 3C
DRILL EXIST. HANDHOLE = 1 EA.

PROPOSED:
CONC. FND. TY. E 36" = 8 FT.
CAMERA POLE 45 FT. = 1 EA.
CLOSED CIRCUIT TELEVISION CABINET (12 FIBERS) = 1 EA.
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED = 1 EA.
(PAN/TILT/ZOOM)
ETHERNET SWITCH (1 SM SFP) = 1 EA.

BILL OF MATERIALS
LOCATION 4

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1280
HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	1374
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 8 3C	FOOT	664
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	8
DRILL EXISTING HANDHOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
CAMERA POLE, 45 FT	EACH	1
CCTV CABINET	EACH	1
ETHERNET SWITCH	EACH	2
CCTV DOME CAMERA, IP BASED	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	3258

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

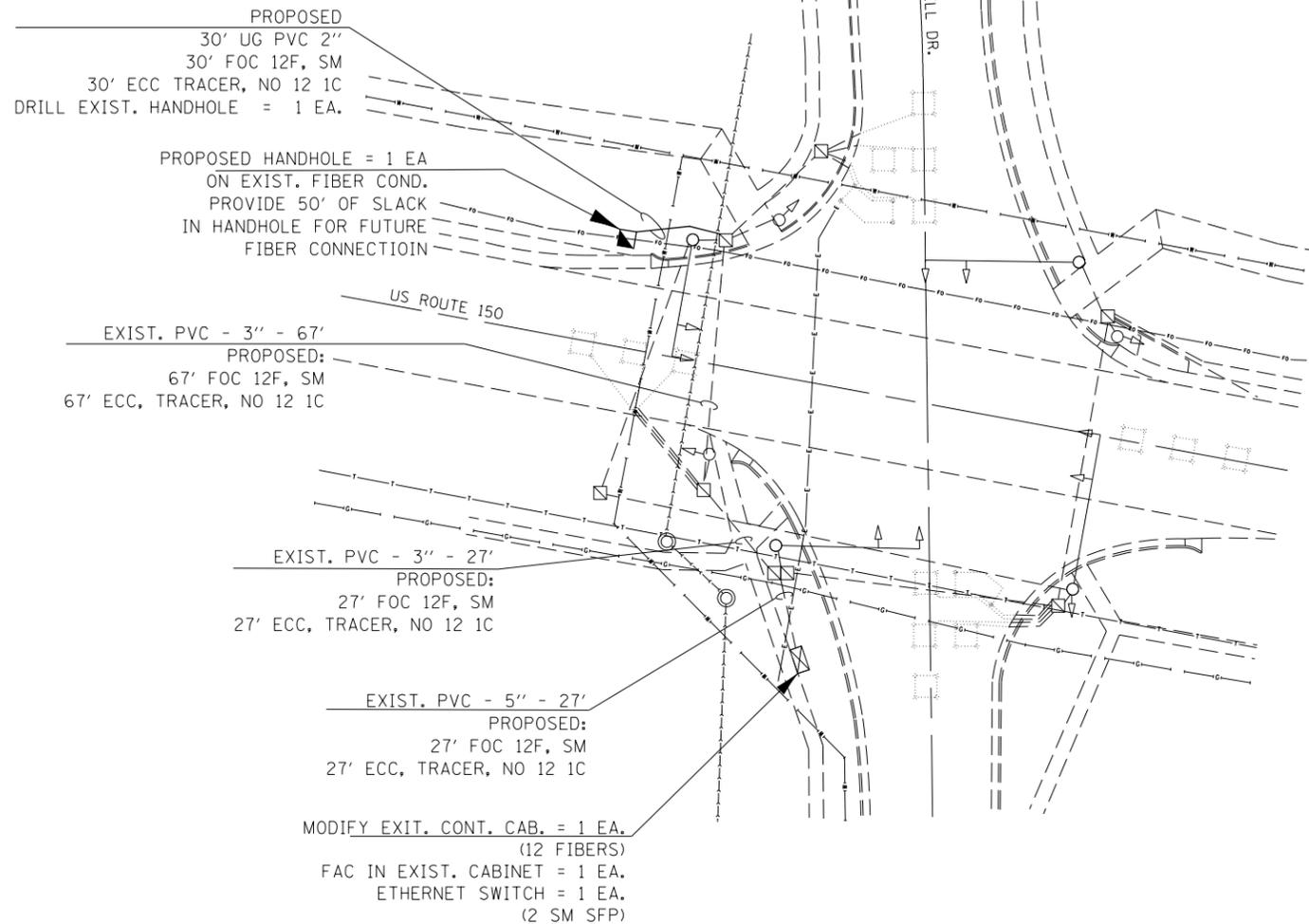
LOCATION 4
I-74 INTERCHANGE
&
IL 47 (LOMBARD ST)
PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT

MCC = METRO COMMUNICATIONS COMPANY

LOCATION 5

US 150 / IL 10
&
CHURCHILL DR.

PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS

LOCATION 5

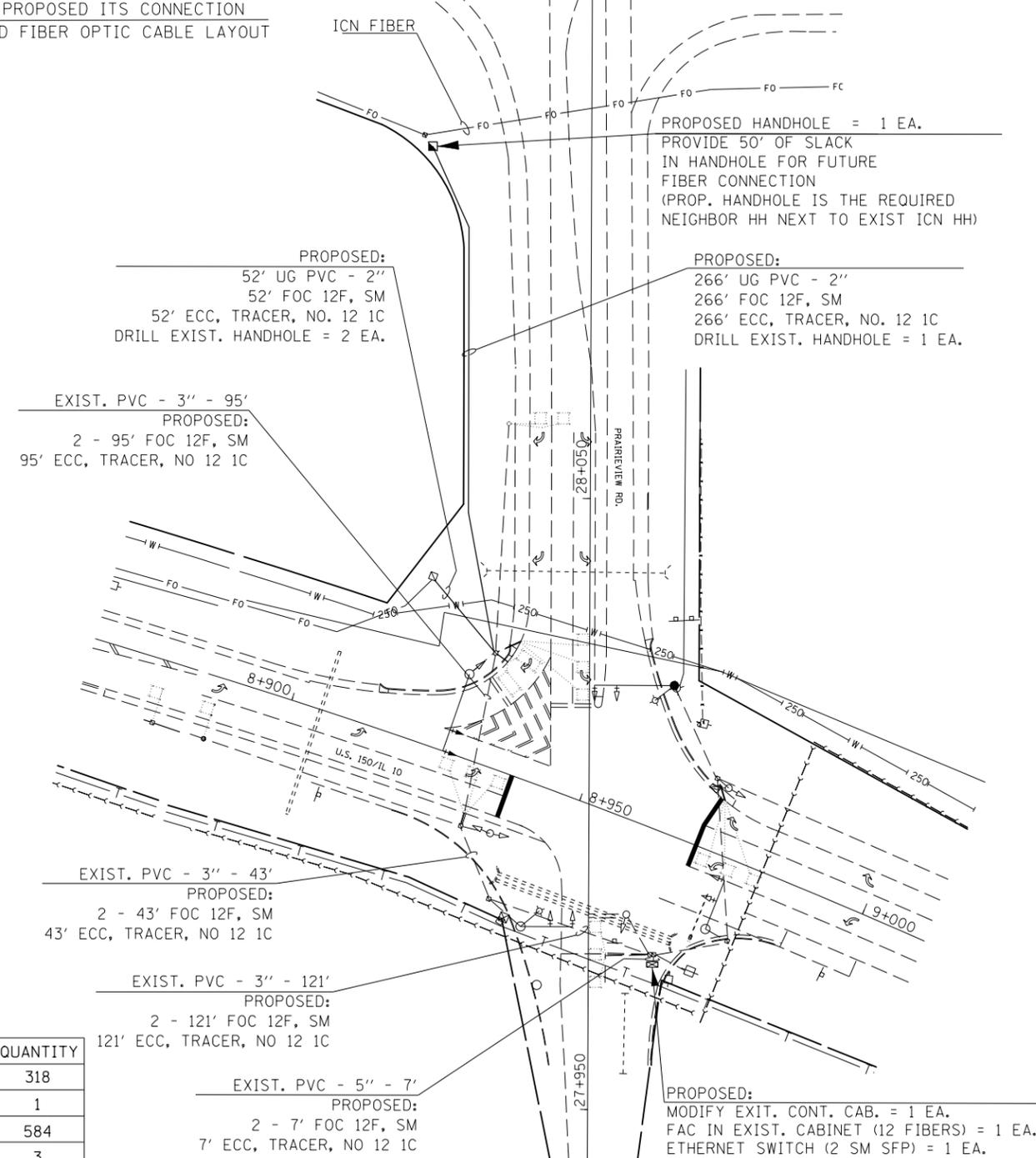
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	30
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	151
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	236

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

LOCATION 6

US 150 / IL 10
&
PRAIRIEVIEW RD.

PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS

LOCATION 6

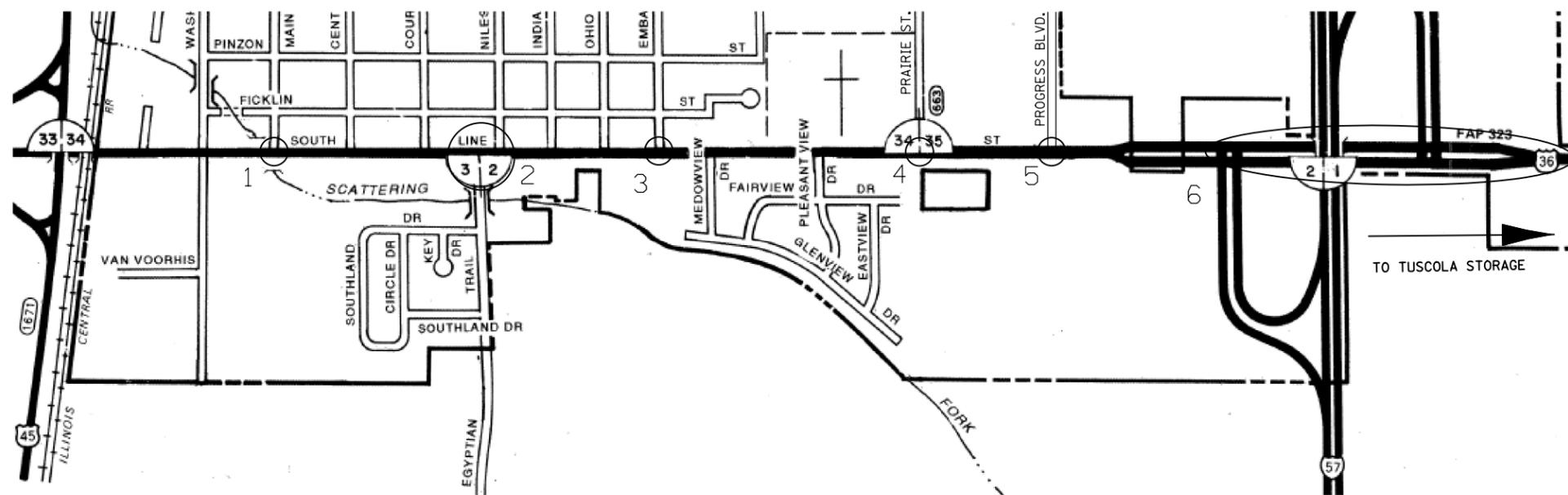
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	318
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	584
DRILL EXISTING HANDHOLE	EACH	3
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	1033

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIALS QUANTITY.

MCC = METRO COMMUNICATIONS COMPANY

CITY OF TUSCOLA
 POINT LOCATION MAP
 FOR
 PROPOSED ITS CONNECTIONS
 AND FIBER OPTIC INSTALLATIONS

- 1 US 36 (SOUTHLINE RD) & MAIN ST
- 2 US 36 & NILES AVE/EGYPTIAN TRAIL
- 3 US 36 & EMBARRASS ST
- 4 US 36 & PRAIRIE ST
- 5 US 36 & PROGRESS BLVD
- 6 US 36 & I-57 INTERCHANGE & TUSCOLA STORAGE FIBER CONNECTION



FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0579\DRAWING\Design\RD870872-Tuscola.ITS.dwg		DRAWN	REVISED -
\$MODELNAME\$	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CITY OF TUSCOLA
 POINT LOCATION MAP

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016 ITS-1	•	27	19
• CHAMPAIGN & DOUGLAS			CONTRACT NO. 70B72	
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS

LOCATION 2

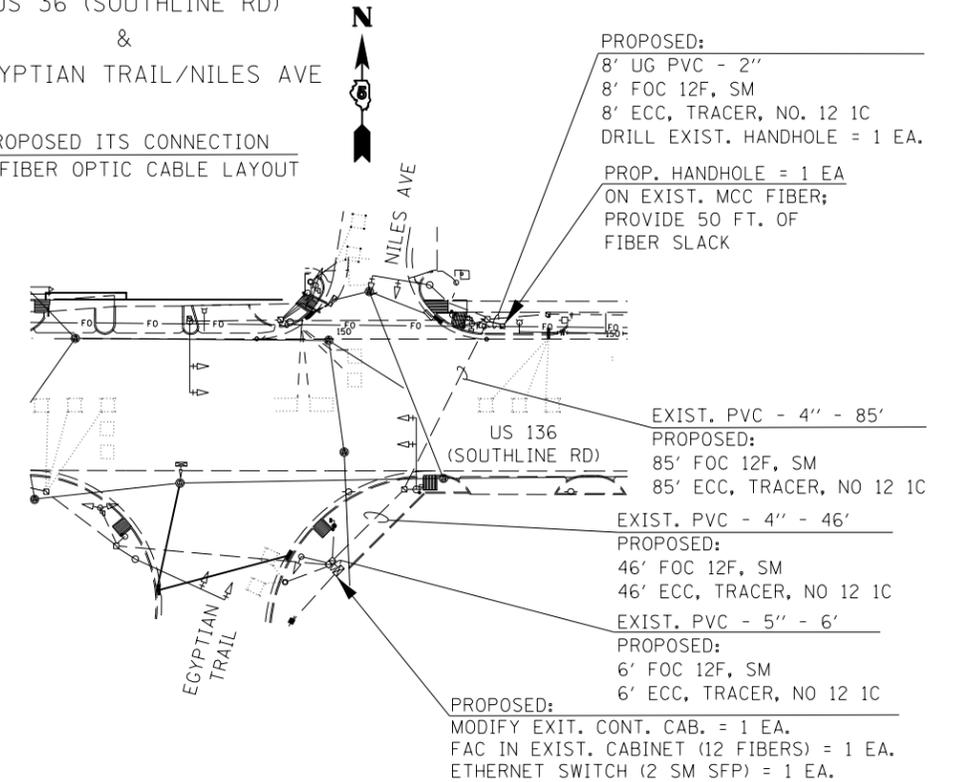
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	8
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	145
DRILL EXISTING HAND HOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	230

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIAL QUANTITY

LOCATION 2

US 36 (SOUTHLINE RD)
&
EGYPTIAN TRAIL/NILES AVE

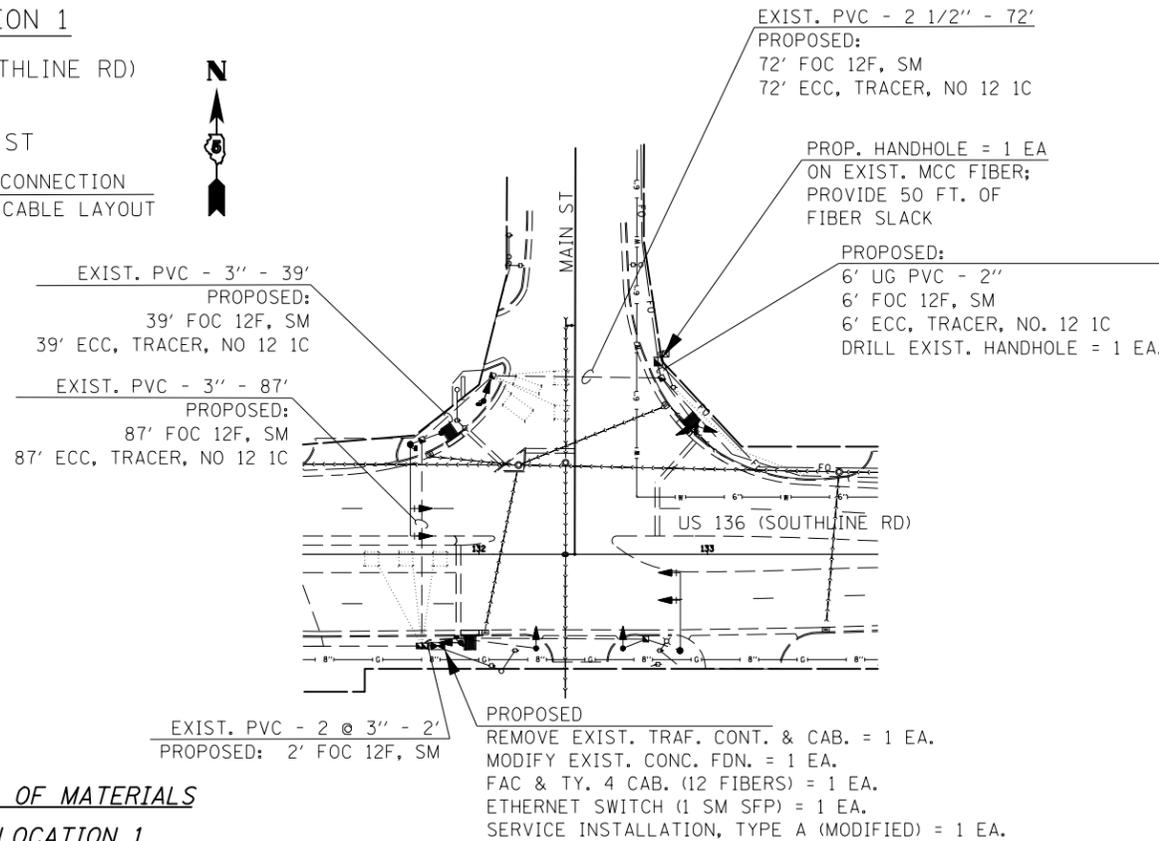
PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



LOCATION 1

US 36 (SOUTHLINE RD)
&
MAIN ST

PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS

LOCATION 1

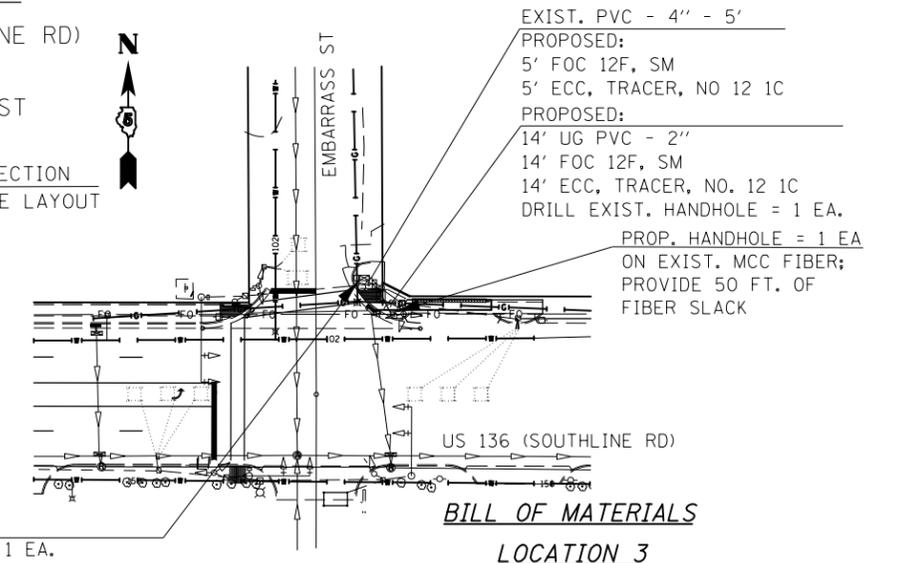
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	6
HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	204
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONCRETE FOUNDATION	EACH	1
ETHERNET SWITCH	EACH	1
SERVICE INSTALLATION, TYPE A (MODIFIED)	FOOT	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	298
REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	1
INDUCTIVE LOOP DETECTOR, RACK MOUNTED	EACH	7
REMOVE EXISTING SERVICE INSTALLATION	EACH	1

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIAL QUANTITY

LOCATION 3

US 36 (SOUTHLINE RD)
&
EMBARRASS ST

PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS

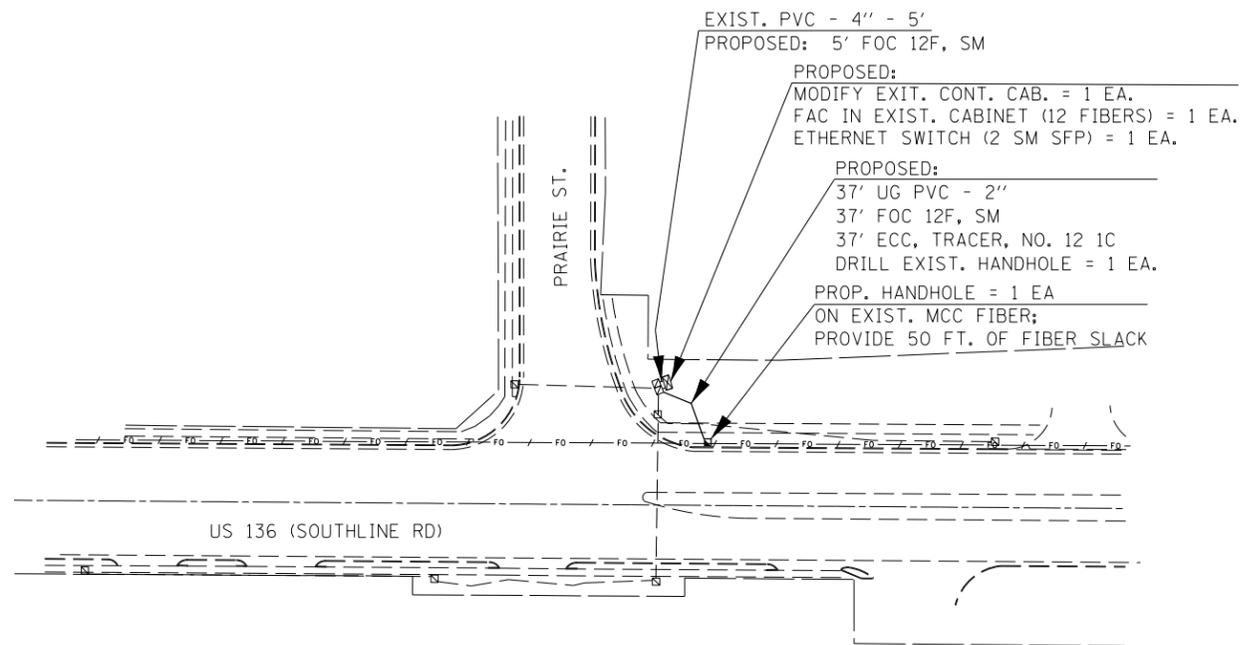
LOCATION 3

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	14
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	19
DRILL EXISTING HAND HOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	91
SIDEWALK REMOVAL	SQ FT	31
PCC SIDEWALK 5"	SQ FT	31

MCC = METRO COMMUNICATIONS COMPANY

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIAL QUANTITY

LOCATION 4
 US 36 (SOUTHLINE RD)
 &
 PRAIRIE STREET
 PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT

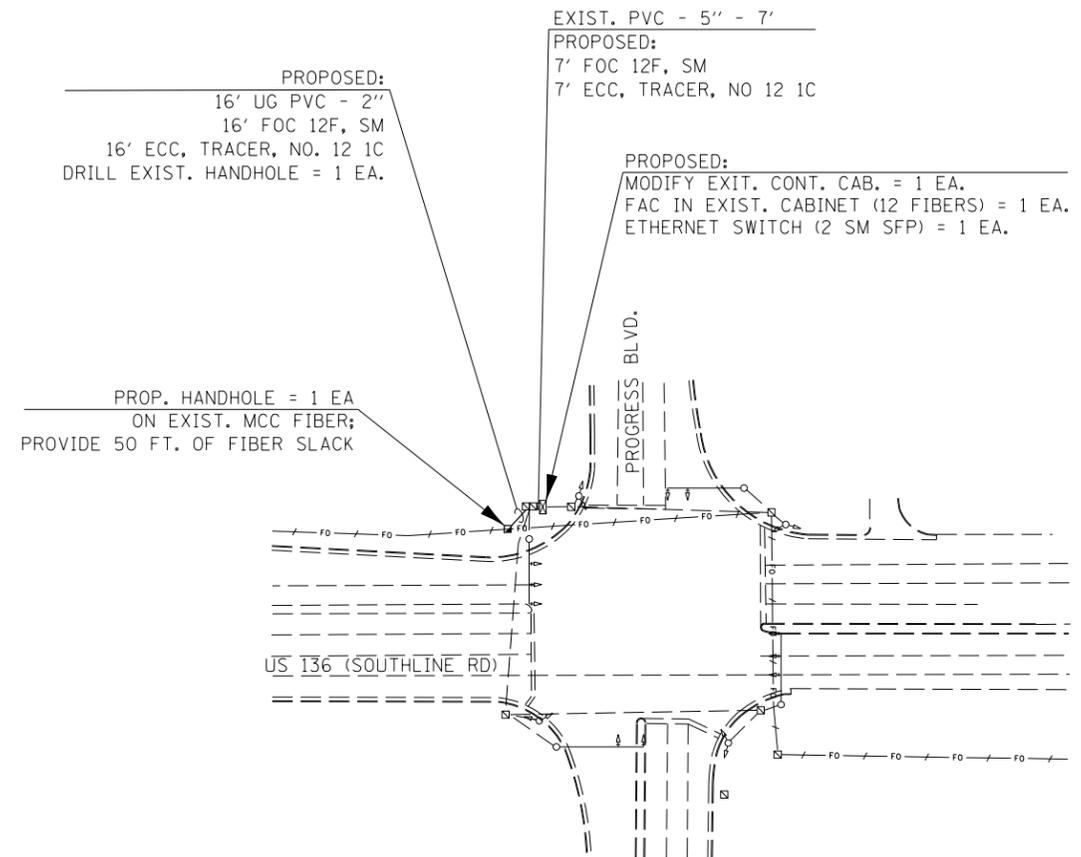


BILL OF MATERIALS
LOCATION 4

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	37
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	37
DRILL EXISTING HAND HOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	114

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIAL QUANTITY

LOCATION 5
 US 36 (SOUTHLINE RD)
 &
 PROGRESS BLVD
 PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS
LOCATION 5

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	16
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	23
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	95

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIAL QUANTITY

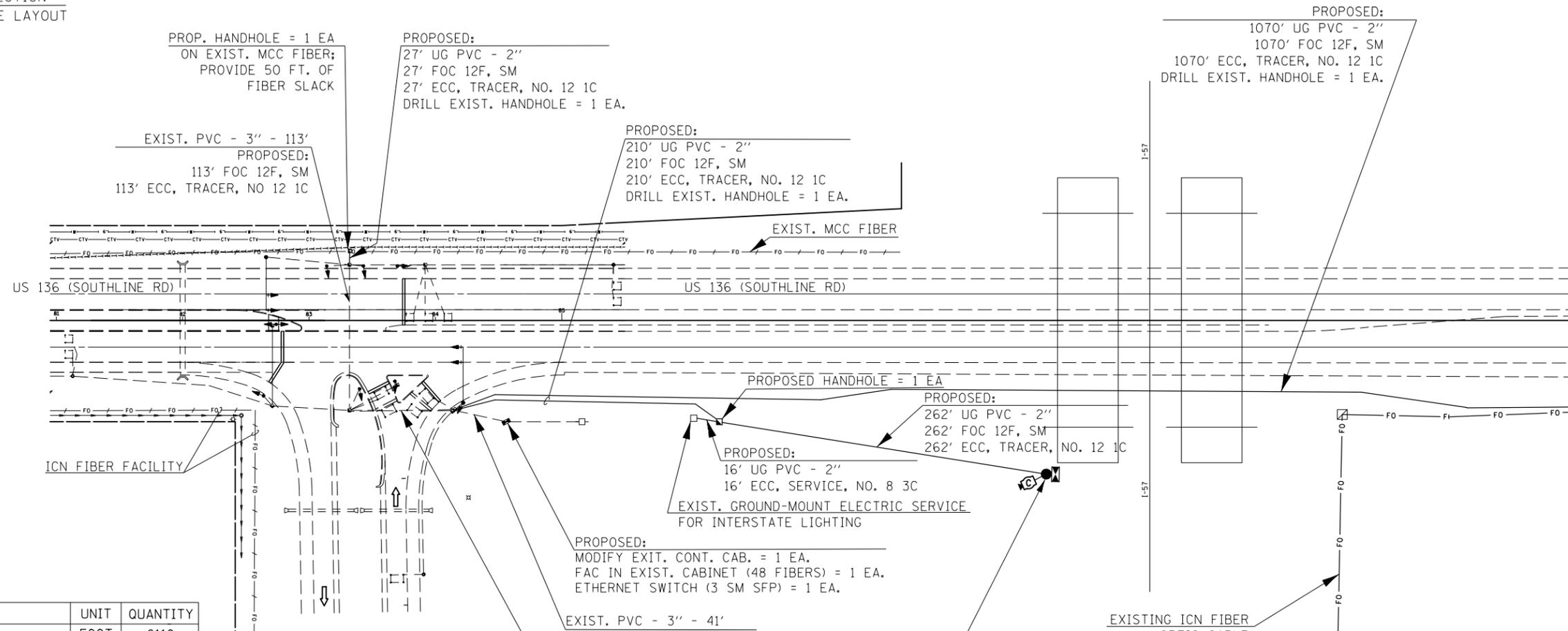
MCC = METRO COMMUNICATIONS COMPANY

LOCATION 6

US 36 (SOUTHLINE RD)
&
I-57 SOUTHBOUND RAMPS/
TUSCOLA STORAGE FIBER CONNECTION



PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT



BILL OF MATERIALS
LOCATION 6

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	6110
HANDHOLE	EACH	8
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	6328
* ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 8 3C	FOOT	554
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	8
DRILL EXISTING HAND HOLE	EACH	3
MODIFY EXISTING CONTROLLER CABINET	EACH	1
CAMERA POLE, 45 FT.	EACH	1
CLOSED CIRCUIT TELEVISION CABINET	EACH	1
ETHERNET SWITCH	EACH	3
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1
FIBER OPTIC INTERCONNECT CABINET	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
* FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	5993
JUNCTION BOX, SS, ATTACHED TO STRUCTURE, 18"x18"x8"	EACH	1

* ALLOWABLE SLACK AT VARIOUS LOCATIONS ACCOUNTED FOR IN THE POSTED BILL OF MATERIAL QUANTITY

MCC = METRO COMMUNICATIONS COMPANY
ICN = ILLINOIS CENTURY NETWORK

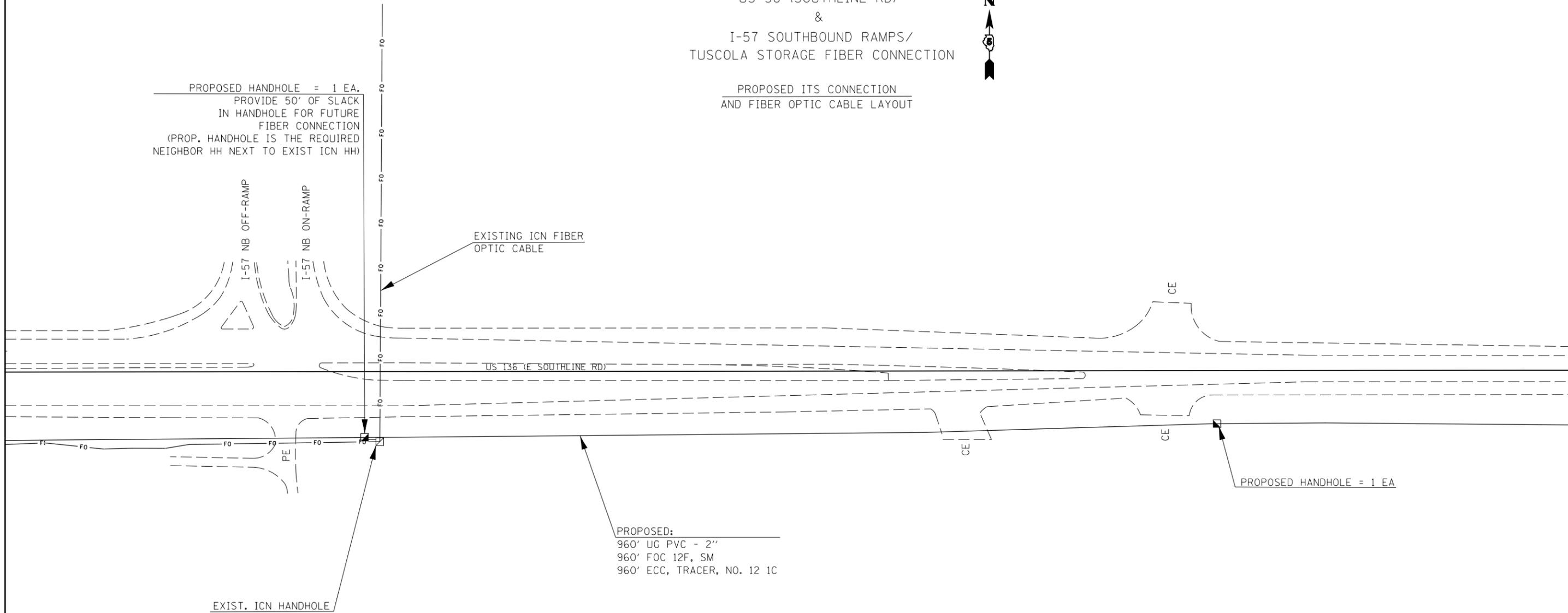
LOCATION 6 (CONT.)

US 36 (SOUTHLINE RD)
&
I-57 SOUTHBOUND RAMPS/
TUSCOLA STORAGE FIBER CONNECTION



PROPOSED ITS CONNECTION
AND FIBER OPTIC CABLE LAYOUT

PROPOSED HANDHOLE = 1 EA.
PROVIDE 50' OF SLACK
IN HANDHOLE FOR FUTURE
FIBER CONNECTION
(PROP. HANDHOLE IS THE REQUIRED
NEIGHBOR HH NEXT TO EXIST ICN HH)



ICN = ILLINOIS CENTURY NETWORK

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0570872-Tuscola.ITS\Drawings\0570872-Tuscola.ITS.dwg		DRAWN -	REVISED -
\$MODELNAME\$	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 10/27/2016	DATE -	REVISED -

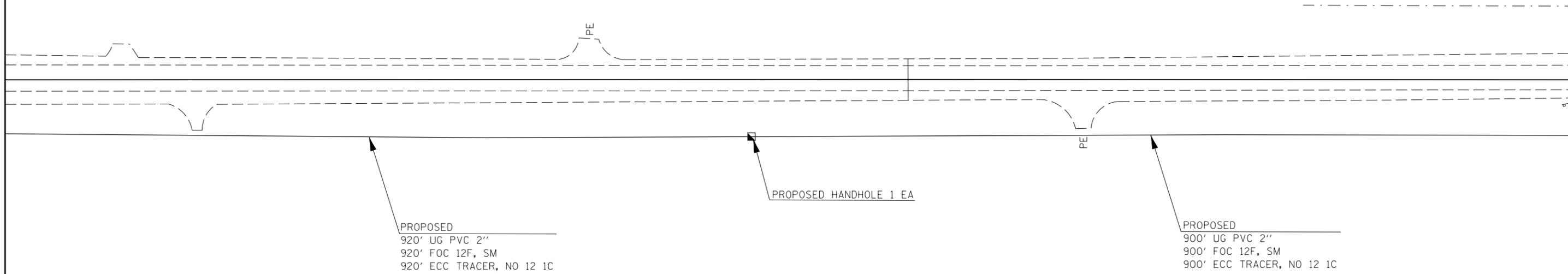
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TUSCOLA LOCATION 6, CONT.

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016 ITS-1	*	27	23
* CHAMPAIGN & DOUGLAS			CONTRACT NO. 70B72	
ILLINOIS FED. AID PROJECT				

LOCATION 6 (CONT.)
 US 36 (SOUTHLINE RD)
 &
 I-57 SOUTHBOUND RAMPS/
 TUSCOLA STORAGE FIBER CONNECTION
 PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT



FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0570872-Tuscola.ITS.dwg		DRAWN -	REVISED -
\$MODELNAME\$	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TUSCOLA LOCATION 6, CONT.

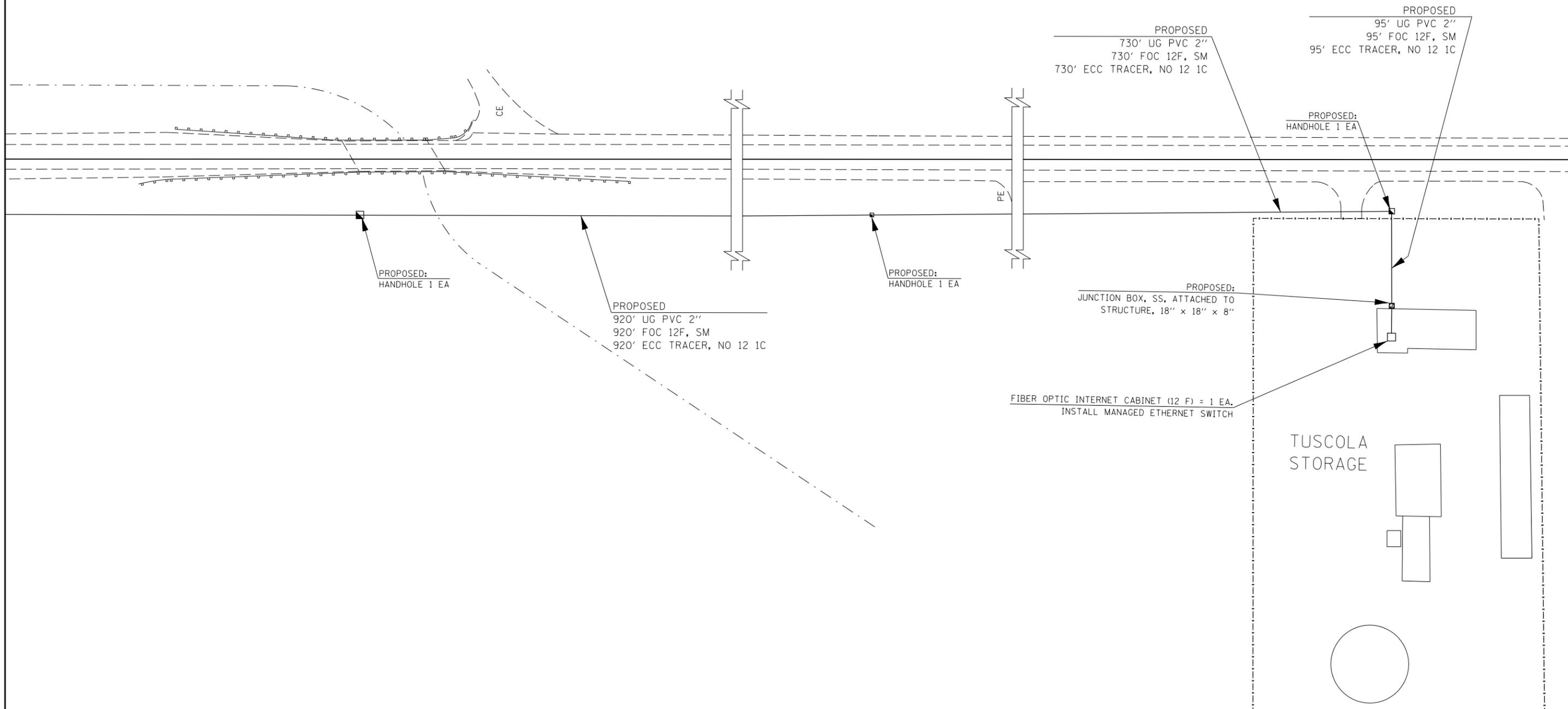
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016 ITS-1	*	27	24
• CHAMPAIGN & DOUGLAS			CONTRACT NO. 70B72	
ILLINOIS FED. AID PROJECT				

LOCATION 6 (CONT.)
 US 36 (SOUTHLINE RD)
 &
 I-57 SOUTHBOUND RAMPS/
 TUSCOLA STORAGE FIBER CONNECTION



PROPOSED ITS CONNECTION
 AND FIBER OPTIC CABLE LAYOUT



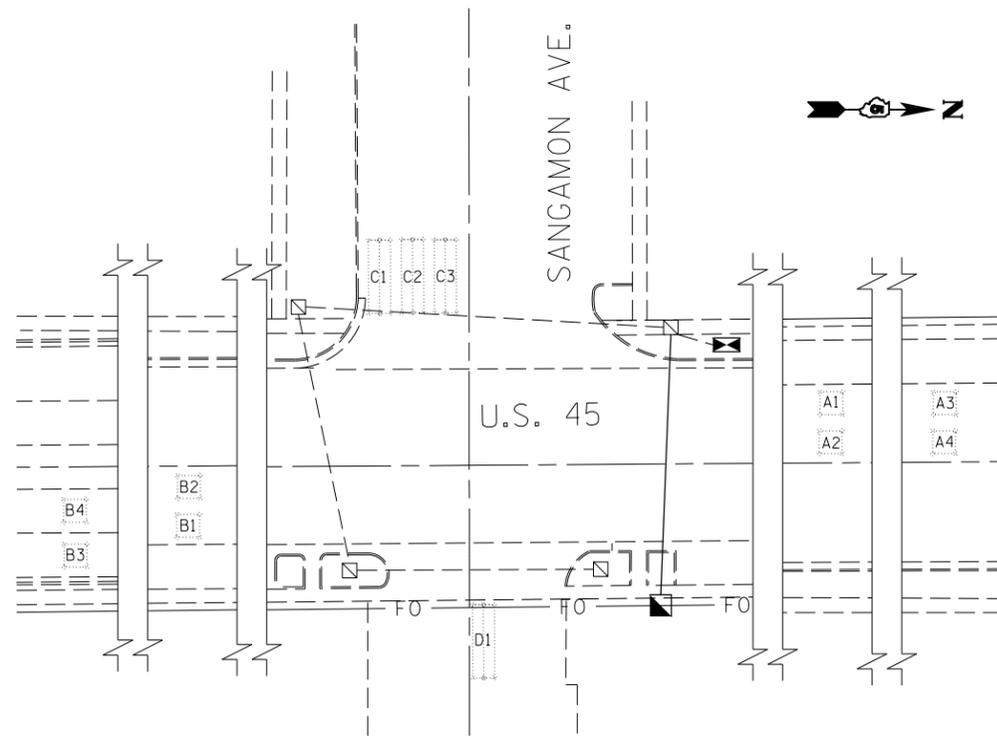
FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0577\Drawings\Design\0570872-Tuscola.ITS.dwg		DRAWN -	REVISED -
\$MODELNAME\$	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/27/2016	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TUSCOLA LOCATION 6, CONT.

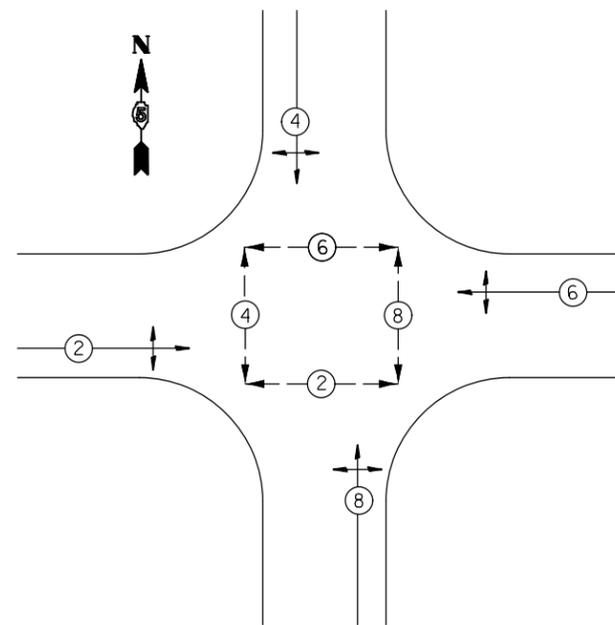
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016 ITS-1	•	27	25
• CHAMPAIGN & DOUGLAS		CONTRACT NO. 70B72		
ILLINOIS FED. AID PROJECT				



U.S. 45 & SANGAMON AVE.
LOCATION 5 IN RANTOUL

PHASE DESIGNATION DIAGRAM

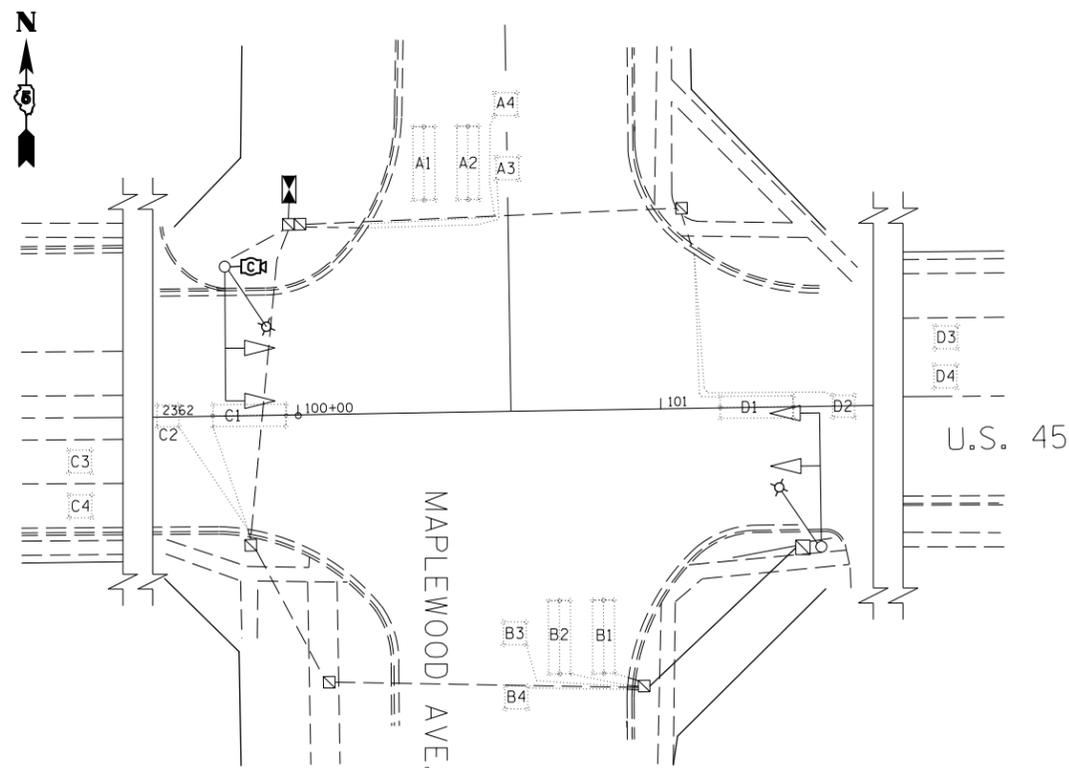


DETECTOR LOOP DATA
U.S. 45 & SANGAMON AVE.

Loop	Size	Mode	Delay / Ext.	Loop Output	Veh. Phase
A1-2	6' x 6'	PRESENCE		VD 6	6
A3-4	6' x 6'	PULSE		VD 6	6
B1-2	6' x 6'	PRESENCE		VD 2	2
B3-4	6' x 6'	PULSE		VD 2	2
C1	6' x 20'	PRESENCE	10 /	VD 4	4
C2-3	6' x 20'	PRESENCE		VD 4	4
D1	6' x 20'	PRESENCE	10 /	VD 8	8

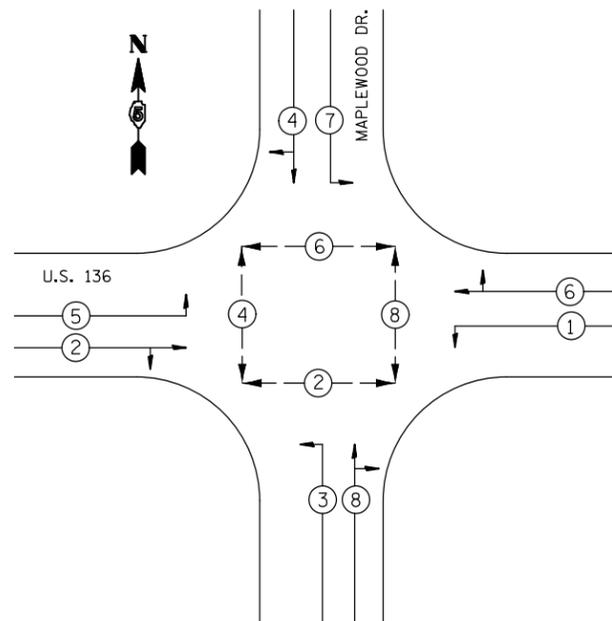
LOOPS SHALL BE WIRED TO COMMON AMPLIFIERS AS FOLLOWS:
(A1, A2), (A3, A4), (B1, B2), (B3, B4), (C1), (C2, C3), (D1)

7 AMPLIFIERS TOTAL REQUIRED
PAID FOR AS INDUCTIVE LOOP DETECTOR, RACK MOUNTED



U.S. 136 & MAPLEWOOD AVE.
LOCATION 15 IN RANTOUL

PHASE DESIGNATION DIAGRAM

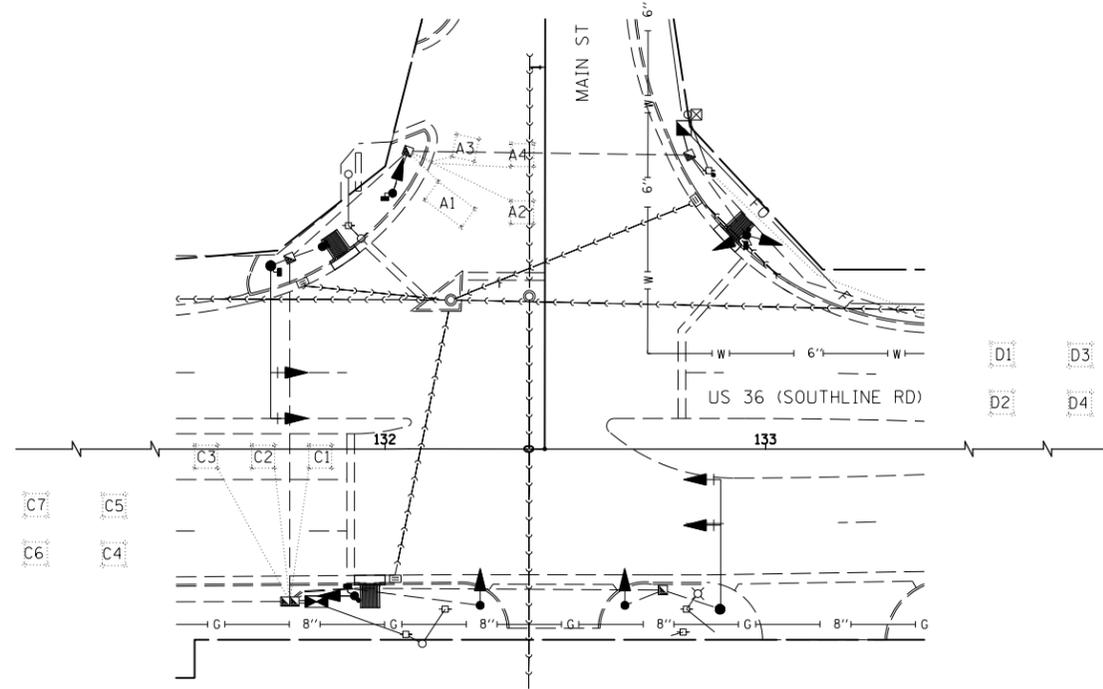


DETECTOR LOOP DATA
U.S. 136 & MAPLEWOOD DR.

Loop	Size	Mode	Delay / Ext.	Loop Output	Veh. Phase
A1	6' x 20'	PRESENCE	10 /	VD 4	4
A2	6' x 20'	PRESENCE		VD 4	4
A3-4	6' x 6'	PRESENCE		VD 7	7
B1	6' x 20'	PRESENCE	10 /	VD 8	8
B2	6' x 20'	PRESENCE		VD 8	8
B3-4	6' x 6'	PRESENCE		VD 3	3
C1	6' x 20'	PRESENCE		VD 5	5
C2	6' x 6'	PRESENCE		VD 5	5
C3-4	6' x 6'	PULSE		VD 2	2
D1	6' x 20'	PRESENCE		VD 6	6
D2	6' x 6'	PRESENCE		VD 6	6
D3-4	6' x 6'	PULSE		VD 1	1

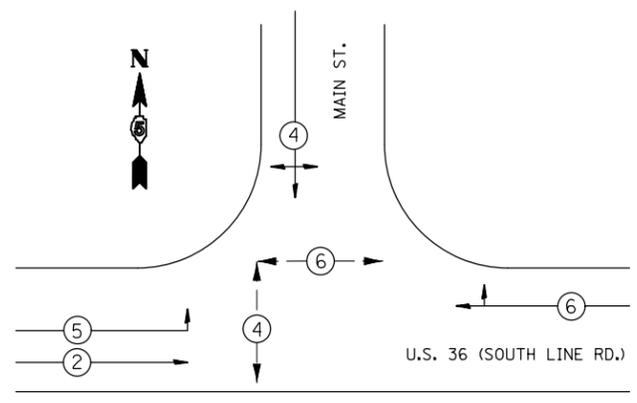
LOOPS SHALL BE WIRED TO COMMON AMPLIFIERS AS FOLLOWS:
(A1), (A2), (A3, A4), (B1), (B2), (B3, B4), (C1, C2), (C3, C4), (D1, D2), (D3, D4)

10 AMPLIFIERS TOTAL REQUIRED
PAID FOR AS INDUCTIVE LOOP DETECTOR, RACK MOUNTED



U.S. 36 & MAIN ST.
LOCATION 1 IN TUSCOLA

PHASE DESIGNATION DIAGRAM



DETECTOR LOOP DATA
U.S 36 & MAIN ST.

Loop	Size	Mode	Delay / Ext.	Loop Output	Veh. Phase
A1	6' x 12'	PRESENCE	10 /	VD 3	4
A2, A4	6' x 6'	PRESENCE		VD 4	4
A3	6' x 6'	PRESENCE	10 /	VD 3	4
C1-3	6' x 6'	PRESENCE		VD 5	5
C4-5	6' x 6'	PULSE		VD 2	2
C6-7	6' x 6'	PULSE		VD 2	2
D1-2	6' x 6'	PULSE		VD 6	6
D3-4	6' x 6'	PULSE		VD 6	6

LOOPS SHALL BE WIRED TO COMMON AMPLIFIERS AS FOLLOWS:
(A1,A3), (A2, A4), (C1-3), (C4-5), (C6-7), (D1-2), (D3-4)

7 AMPLIFIERS TOTAL REQUIRED
PAID FOR AS INDUCTIVE LOOP DETECTOR, RACK MOUNTED

FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0577\DRAWING\Design\05770872-Tuscola.ITS.dwg		DRAWN -	REVISED -
\$MODELNAME\$	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM
U.S. 36 & MAIN ST.

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016 ITS-1	*	27	27
* CHAMPAIGN & DOUGLAS			CONTRACT NO. 70B72	
ILLINOIS FED. AID PROJECT				