02-28-14 LETTING ITEM 138

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED

PROJECT: ACCM-0005 (860)

ITS CENTER TO CENTER INTEGRATION PROJECT **COOK COUNTY**

VARIOUS ROUTES

SECTION NO. 2009–0871 JOB NO. C-91-021-10

HIGHWAY PLANS

SHEET

 \circ

NO. DESCRIPTION

- COVER SHEET
- SUMMARY OF QUANTITIES
- 3 **GENERAL NOTES**
- OVERALL MAP OF PROJECT SITE LOCATIONS
- 5 IDOT ETP BUILDING / DAN RYAN & W. 33RD ST.
- ISP DISTRICT CHICAGO / COOK COUNTY SHERIFF (MAINE NORTH)
- 7 IDOT BUILDING E (KENNEDY / EDENS)
- 8-10 ONE LINE DIAGRAMS
- RADIO, ANTENNA, & EQUIPMENT DETAILS IDOT ETP / DAN RYAN
- 12-17 VIDEO WALL UPGRADE, D1 HQ
- 18-21 VIDEO WALL UPGRADE, TSC
- 22-24 DETAILS (1 OF 3)
 - -DETAILS (2 OF 3)
 - DETAILS (3 OF 3)

TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)

25. TC-17 TRAFFIC CONTROL STANDARD

LIST OF STATE STANDARDS

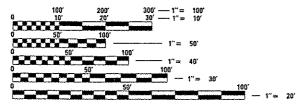
000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

701901-03 TRAFFIC CONTROL DEVICES

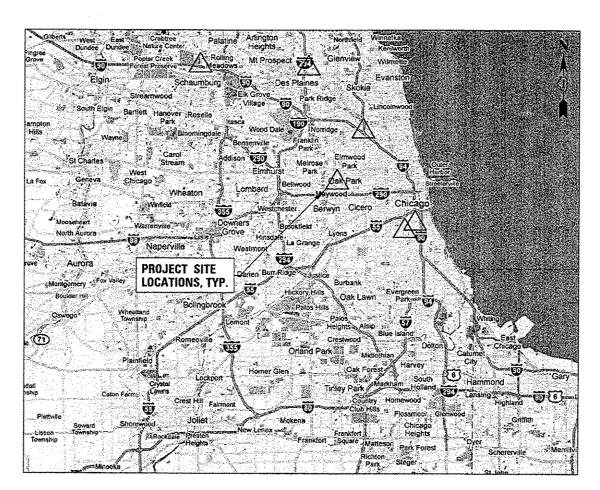
TRAFFIC CONTROL DETAILS FOR FREEWAY -SHOULDER CLOSURES AND PARTIAL RAMP -CLOSURES-

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.

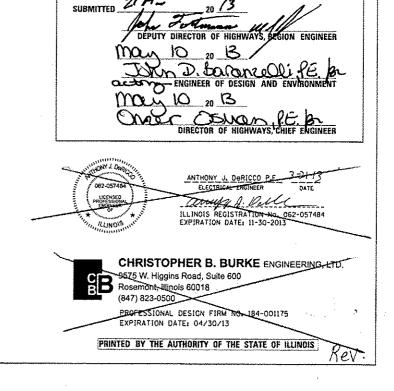


ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PROJECT ENGINEER PROJECT MANAGER MARK JENKINS, P.E.



LOCATION MAP



LOCATION OF SECTIONS INDICATED THUS: - A

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

COOK X2 ILLINOIS CONTRACT NO. 60134 X 25 45=30

CONTRACT NO. 60134

			URBAN 80% FEO /	F				,	
CODE NO.	ITEM	UNIT	20% STATE TOTAL 0021	DIST 1 HQ	IDOT ETP BUILDING	DAN RYAN & WEST 33RD ST.	ISP DIST CHICAGO	IDOT BUILDING E	IDOT TSC
67100100	MOBILIZATION	L SUM	1	0.2	0.2	0.2	0.2	0	0,2
									
70102630	TRAFFIC CONTROL AND PROTECTION. STANDARD 701601	L SUM	1	0	0	1	0	0	0
81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	150	0	0	150	0	0	0
81702450	ELECTRIC CABLE IN CONDUIT, GOOV (XLP-TYPE USE) 3-1/C NO. 10	FOOT	150	0	0	150	0	0	0
87900100	DRILL EXISTING FOUNDATION	EACH	1	0	0	1	0	0	0
87900200	DRILL EXISTING HANDHOLE	EACH	1	0	0	1	0	0	0
	DRIEL EXISTING PANDOUE	5,7011	A THE PARTY OF THE			,			
X0322920	COMMUNICATIONS CABINET AND EQUIPMENT	EACH	1	0	0	1	0	0	0
X0327323	ELECTRICAL WORK, IDOT ETP	L SUM	100	0	1	0	0	0	0
X0327324	ELECTRICAL WORK, IDOT BUILDING E	L SUM	1	0	0	0	0	1	0
x0327328	ELECTRICAL WORK, ISP DISTRICT CHICAGO	L SUM	1	0	0	0	1	0	0
X0327331	FIBER CONNECTIVITY TO IDOT DAN RYAN CABINET	L SUM	1	0	0	1	0	0	0
70321331	TIBER CORRECTIVITY TO JOST BAR WAR CHOOSE.								
X0327338	MICROWAVE LINK3- IDOT ETP TO DAN RYAN	L SUM	1	0	0.5	0.5	0	0	0
x0327339	MONOPOLE, 100 FOOT MOUNTING HEIGHT	EACH	1	0	0	Park Park Park Park Park Park Park Park	0	0	0
x0327342	VIDEO WALL UPGRADES, IDOT DISTRICT I	L SUM	1	1	0	0	0	0	0
x0327343	VIDEO WALL UPGRADES, 100T TRAFFIC SYSTEMS CENTER	L SUM		0	0	0	0	0	i
X0327345	WORKSTATION FURNITURE, IDOT DISTRICT 1	L SUM	ą.	are the second s	0	0	0	0	0
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0	0	400	0	0	0
x8710036	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	665	0	0	75	540	50	0
0076600	TRAINEES	HOUR	1,000	1,000	 				
XX006614	MODIFY EXISTING CABINET EQUIPMENT AND APPURTENANCES	EACH		0	0	1	0	0	0
0076604	TRAINEES-TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000	ļ				
(0327561	BUDGETARY ALLOWANCE, CCTV INTEGRATION	L SUM	1	1	0	0	0	0	0

PROJECT LOCATION

ITS CENTER-TO-CENTER INTEGRATION PROJECT TO STA.

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. OF SHEETS STA.

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, tilhodis 60018
(847) 823-0500

| CTION | COUNTY | TOTAL SHEET | SHEET

r Rai Yawi

FILE NAME . DESIGNED AJD REVISED ~ USER NAME : adericco DRAWN KWB

CHECKED JPC

DATE 3/21/2013 N:\|dqt\898122\Mech\892122_82_500_PLN_8_sht REVISED -PLOT SCALE = 20' REVISED -PLOT DATE = 3/22/2013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. UTILITIES - LOCATIONS/INFORMATION ON PLANS

THE LOCATIONS OF EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK AT HIS/HER OWN EXPENSE IF REQUIRED, THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO FACILITIES RESULTING FROM INACCURATE LOCATING.

THE CONTRACTOR MAY OBTAIN, ON REQUEST, PLANS FOR THE EXISTING ELECTRICAL FACILITIES FROM THE DEPARTMENT.

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR LOCATING AND PROVIDING PROTECTION FOR FACILITIES DURING ALL PHASES OF CONSTRUCTION. IF AT ANY TIME, THE FACILITIES ARE DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT AND MAKE ALL NECESSARY ARRANGEMENTS FOR REPAIR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE.

2. CRITICAL PATH WORK SCHEDULE REQUIREMENT

THE CONTRACTOR WILL SUBMIT TO THE ENGINEER A SATISFACTORY PROGRESS SCHEDULE AND CRITICAL PATH SCHEDULE WHICH SHOWS THE PROPOSED SEQUENCE OF WORK AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE.

- 3. THE DEPARTMENT CONTACT PERSON FOR THIS CONTRACT IS MARK JENKINS, ELECTRICAL OPERATIONS, 847-705-4350. THE CONTRACTOR MUST COORDINATE AND COOPERATE WITH THE DEPARTMENT AND THE INVOLVED PARTIES AS DIRECTED BY THE DEPARTMENT.
- 4. THE ENGINEERING DESIGN IN THESE PLANS IS BASED UPON FIELD INVESTIGATIONS OF CURRENT CONDITIONS, REVIEW OF EXISTING AS-BUILT DOCUMENTATION, AND INFORMATION OBTAINED FROM PRELIMINARY DESIGN DOCUMENTS FOR THE RECONSTRUCTION PROJECT, DUE TO THE CHANGING NATURE OF THESE ITEMS, THE ACTUAL CONDITIONS MAY BE DIFFERENT THAN THOSE DEPICTED. THE CONTRACTOR SHALL VERIFY THE EXISTING FIELD CONDITIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND CORRELATE THESE CONDITIONS WITH THE PROPOSED CONSTRUCTION ACTIVITIES OF THIS AND OTHER CONTRACTS, THE CONTRACTOR SHALL IDENTIFY TO THE ENGINEER ANY SIGNIFICANT DIFFERENCES BETWEEN THESE PLANS AND THE EXISTING FIELD CONDITIONS OR PROPOSED CONSTRUCTION THAT COULD IMPACT HIS/HER EFFORTS PRIOR TO BEGINNING WORK, CORRECTIVE ACTIONS FOR PROBLEMS ENCOUNTERED AFTER THE CONTRACTOR HAS BEGUN WORK WILL BE INCLUDED IN THE TASK UNLESS PREVIOUSLY IDENTIFIED TO THE ENGINEER.
- 5. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF:
 - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
 - B. NATIONAL ELECTRICAL CODE
 - C. "R56 STANDARDS AND GUIDELINES FOR COMMUNICATION SITES" BY MOTOROLA.
 - D. ILLINOIS STATE POLICE REQUIREMENTS.

THE CONTRACTOR SHALL BE AWARE THAT TEST SOIL BORINGS WERE NOT MADE AT LOCATION WHERE THE DAN RYAN MONOPOLE OR RELATED EQUIPMENT ARE TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE SITE CONDITIONS AT THESE FIELD LOCATIONS BEFORE SUBMITTING BID PROPOSALS.

- 7. WHENEVER CONDUITS (INCLUDING SPARES) ARE INSTALLED FOR FIBER OPTIC OR ELECTRICAL POWER CABLE, A POLYETHYLENE PULL ROPE WITH DETECTABLE METALLIC CONDUCTOR SHALL BE INSTALLED WITH THE CONDUIT. ALL PULL ROPE-RELATED COSTS ARE TO BE INCLUDED IN THE BID PRICE FOR CONDUIT.
- 8. THE QUANTITIES OF RACEWAYS WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- EXACT FIELD LOCATIONS OF EQUIPMENT SHALL BE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT LOCATIONS PRIOR TO STARTING WORK.

GENERAL NOTES (CONTINUED)

- 10. ANY GROUND AREAS DISTURBED DURING THE INSTALLATION OF EQUIPMENT SHALL BE REGRADED AND SEEDED TO THE SATISFACTION OF THE ENGINEER. COST FOR THIS WORK SHALL BE INCIDENTAL.
- 11. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, CONSTRUCTION METHODOLOGIES, PRODUCT MANUFACTURER SPECIFICATIONS, OWNERS MANUALS, AND USERS MANUALS BEFORE PROCURING AND INSTALLING ANY EQUIPMENT AS PART OF THIS CONTRACT, ALL PROPOSED WORK SHALL BE REVIEWED AND APPROVED BY THE DEPARTMENT IN CONSULTATION WITH THE DESIGN FNGINFER.
- 12. THE CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT ALL WORK TO BE CONDUCTED. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT 72 HOURS BEFORE COMMENCING ANY WORK AT THESE LOCATIONS.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TRAFFIC CONTROL FOR THE INSTALLATION OF THE ANTENNA MONOPOLE AND RELATED EQUIPMENT WITH OTHER CONTRACTS AND THAT MAY WORK IN THE AREA.
- 14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ALL APPLICABLE TRAFFIC CONTROL RULES AND REGULATIONS ACCORDING TO SECTION 701 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR WILL BE REQUIRED TO INSTALL ADDITIONAL SIGNS AND APPURTENANCES TO MAINTAIN SAFE CONDITIONS IN THE WORK ZONE AT ALL TIMES AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL PROPOSED EQUIPMENT FOR EXAMINATION AND CONFIRMATION WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGERING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL PROPOSED ITEMS SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
- 16. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISON/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.

17. CONTRACTOR SHALL PERFORM ALL ELECTRICAL TESTING AS REQUIRED BY IDOT AND ISP.

- 18. CONTRACTOR SHALL PROVIDE FIVE FULL SIZE SETS OF RECORD DRAWINGS. RECORD DRAWINGS WILL BE SUBJECT TO REVIEW BY THE DEPARTMENT.
- 19. ANY AND ALL REQUIRED SOIL TESTING OR RELATED ITEMS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE PAY ITEMS TO WHICH THEY PERTAIN, ADD THE FOLLOWING NOTE TO THE DRAWINGS AND SPECIAL PROVISIONS "ALL REMOVAL OR EXCAVATION ITEMS BEING DISPOSED OF AT AN UNCONTAMINATED SOIL FILL OPERATION OR CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) FILL SITE SHALL MEET THE REQUIREMENTS OF PUBLIC ACT 96-1416. ALL COSTS ASSOCIATED WITH MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE COST FOR THE ASSOCIATED REMOVAL OR EXCAVATION ITEMS IN THE CONTRACT. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO ALL REQUIRED TESTING, LAB ANALYSIS, CERTIFICATION BY A LICENSED PROFESSIONAL ENGINEER, AND STATE AND LOCAL TIPPING FEES."
- 20. ALL EQUIPMENT IS SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL COORDINATE AND VERIFY EXACT EQUIPMENT SIZES, LOCATIONS, ROUTINGS, ETC.
- 21. THE CONTRACT DOCUMENTS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DOCUMENTS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DOCUMENTS BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
- 22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL OUANTITIES AND APPRAISE HIMSELF/HERSELF OF ALL CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS THE TOTAL COST FOR THE COMPLETE PROJECT, NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED DUE TO THE CONTRACTOR'S FAILURE TO UNDERSTAND THE SCOPE OF WORK.
- 23. THE CONTRACTOR (AND SUBS) SHALL BE LICENSED & BONDED WITH THE LOCAL MUNICIPALITIES (JURISDICTIONS) AS REQUIRED. THIS COST SHALL BE INCIDENTAL TO THE CONTRACTOR

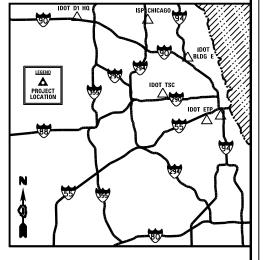
ABBREVIATIONS

IDOT ILLINOIS DEPARTMENT OF TRANSPORTATION

ISP ILLINOIS STATE POLICE

TSC TRAFFIC SYSTEMS CENTER

ETP EMERGENCY TRAFFIC PATROL

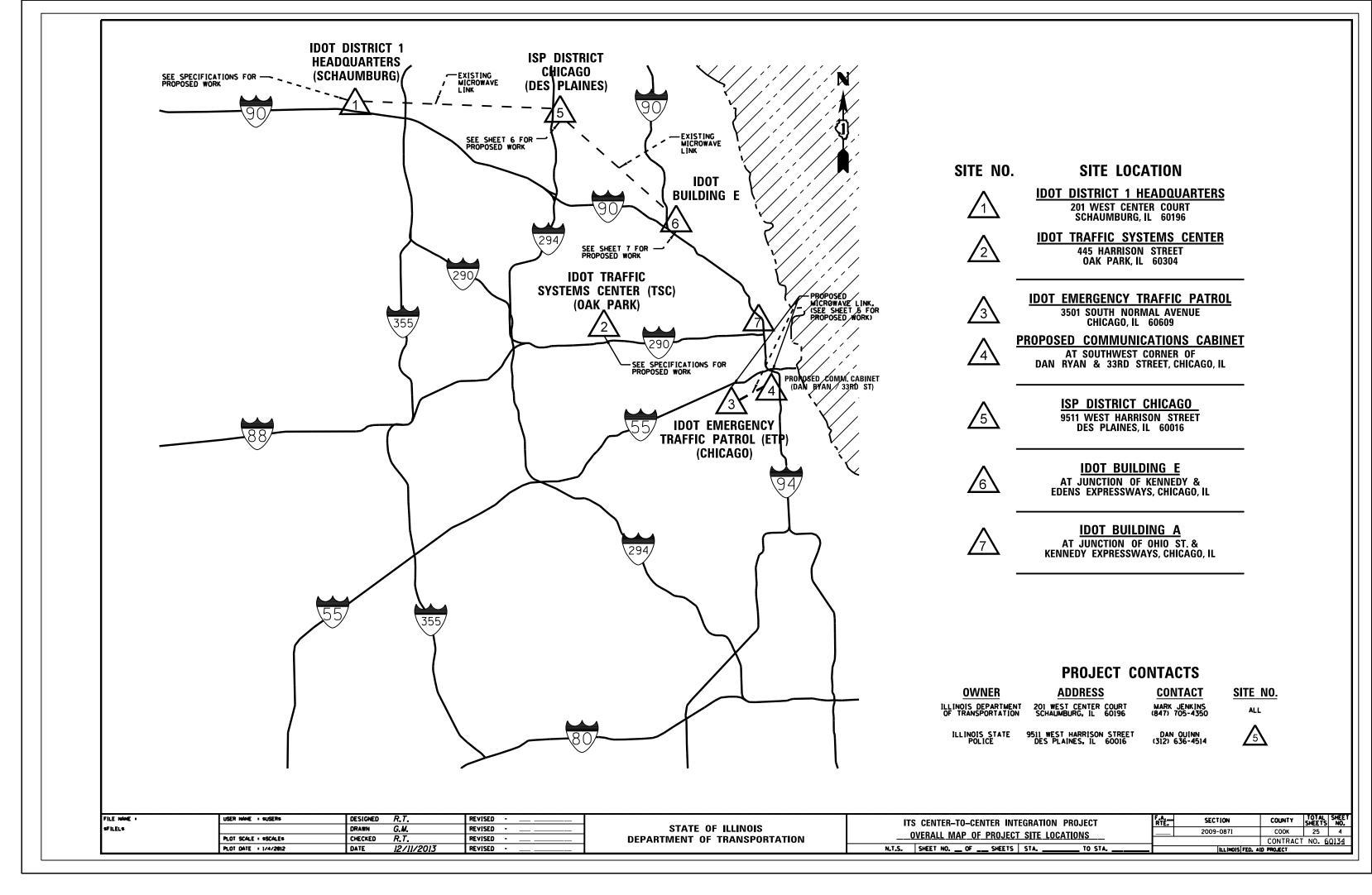


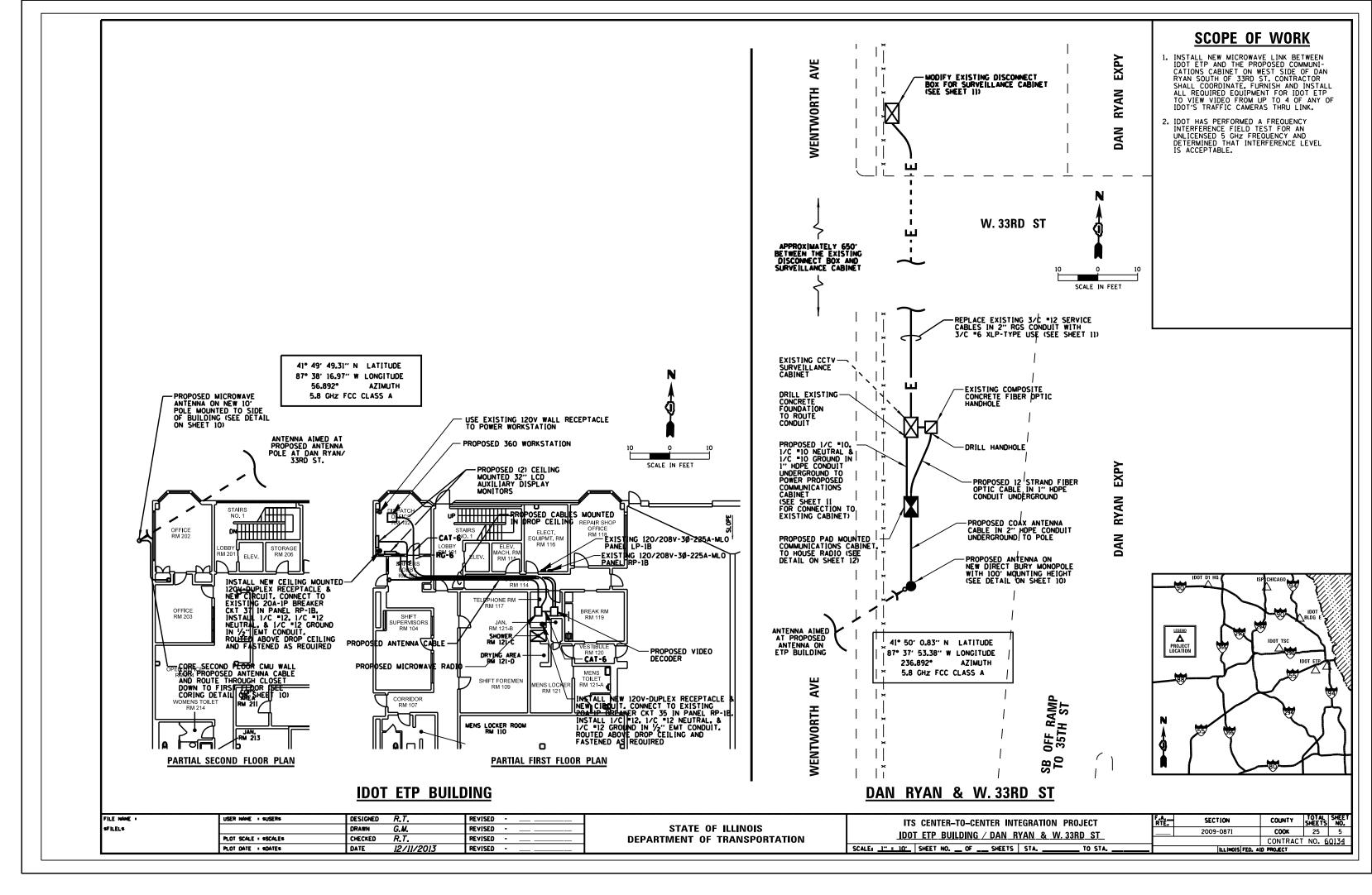
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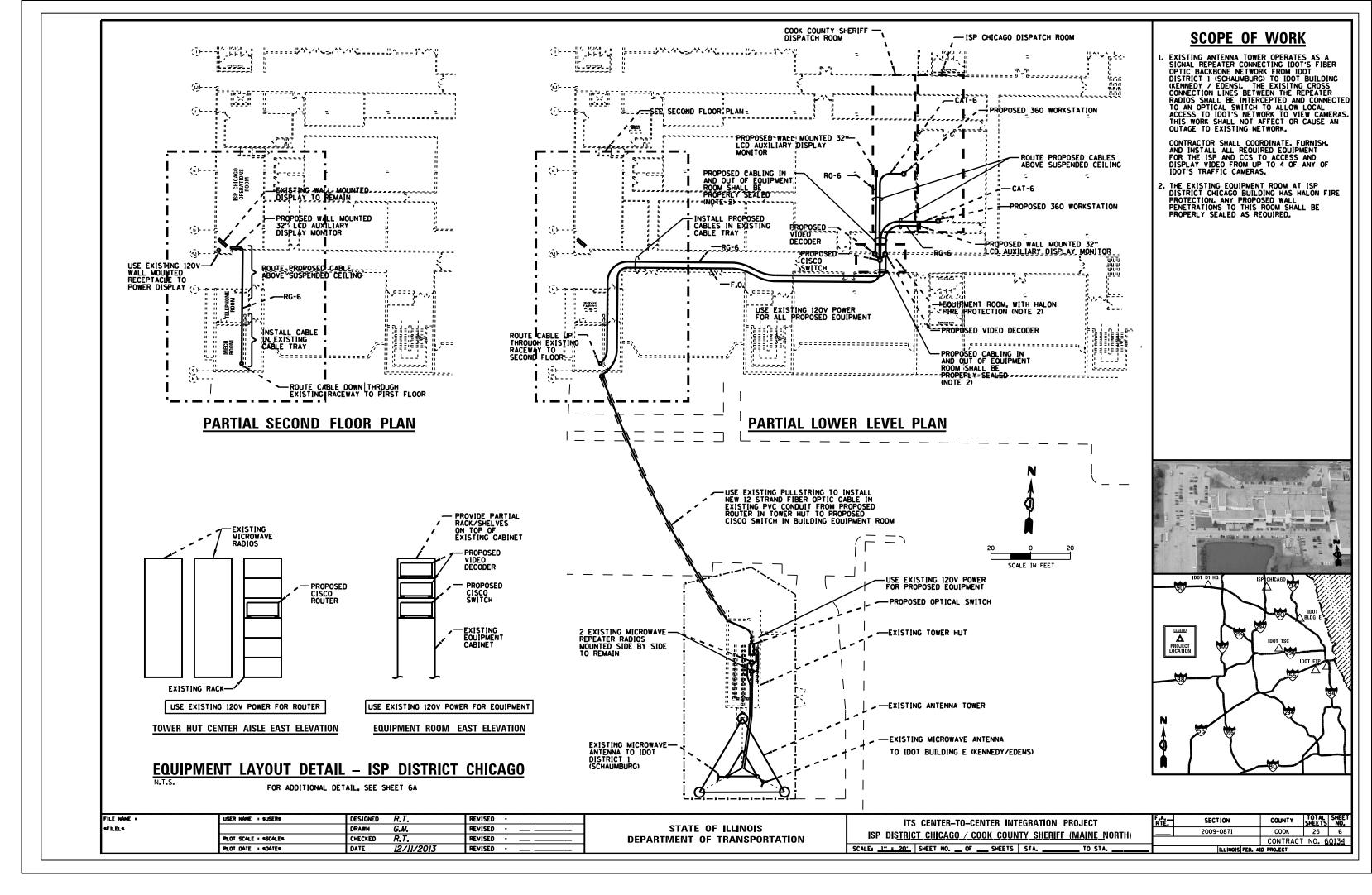
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

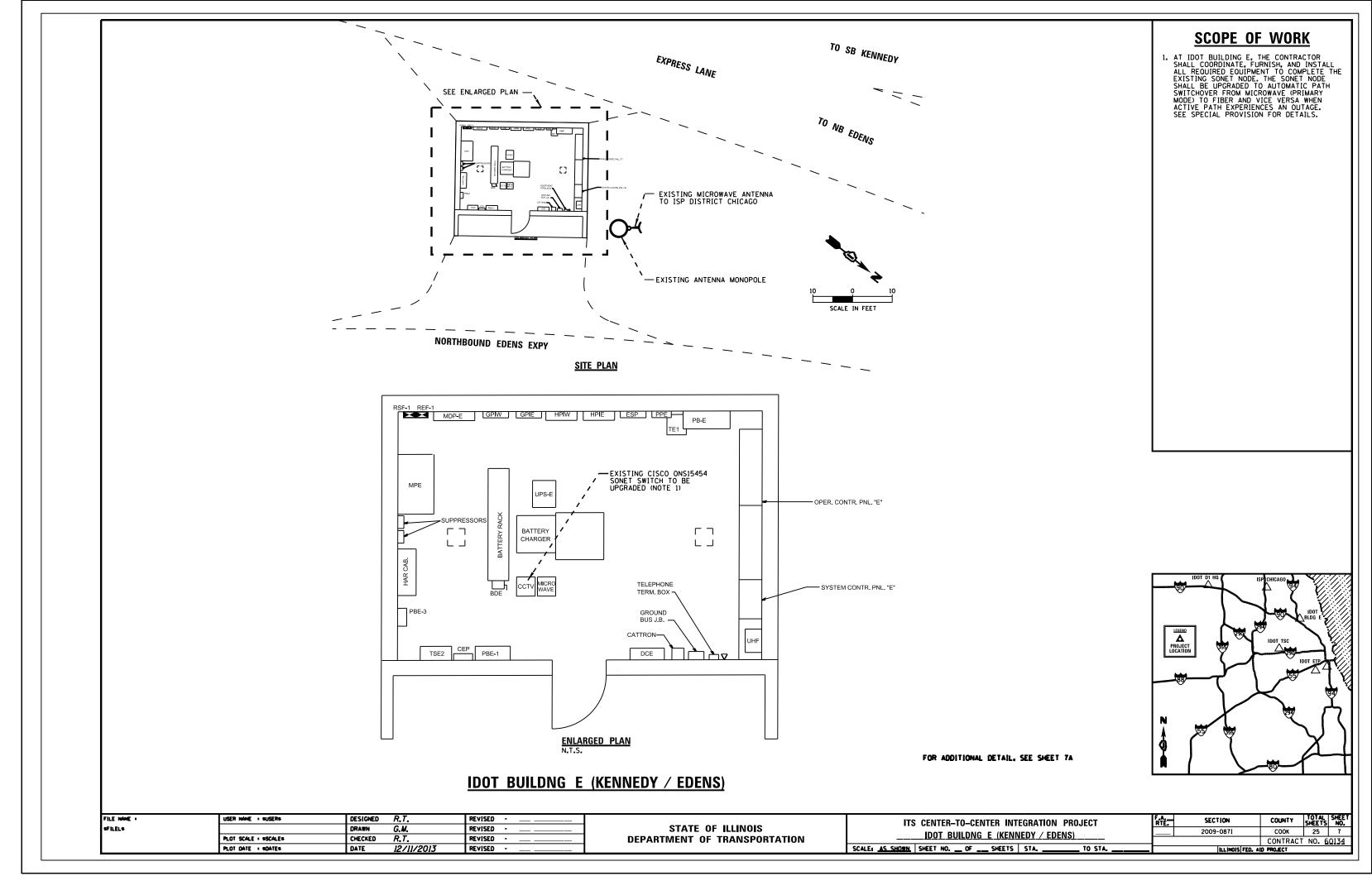
ITS CENTER-TO-CENTER INTEGRATION PROJECT										
	GENERAL NOTES									
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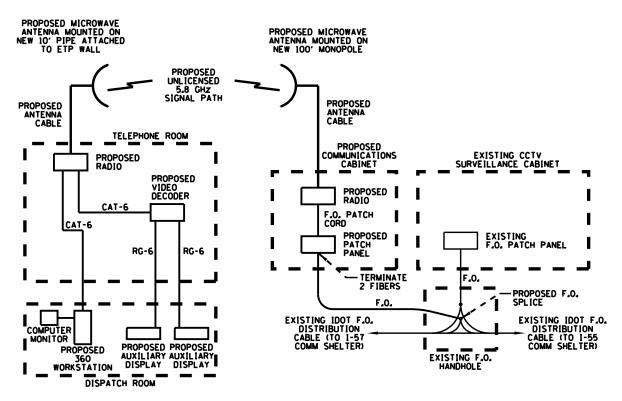
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		CONTRACT	NO. E	0134
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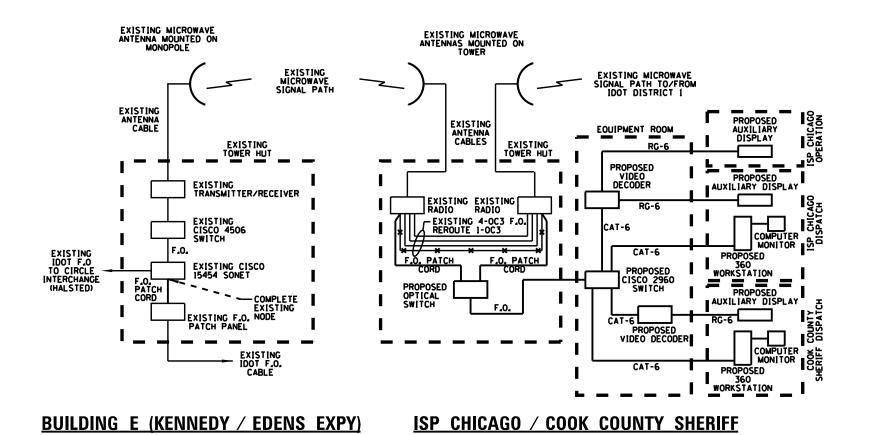




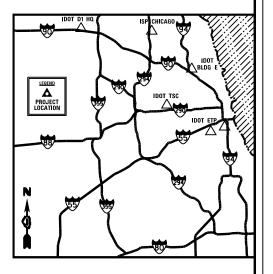




<u>IDOT ETP BUILDING (35TH & NORMAL)</u> <u>DAN RYAN EXPY / W. 33TH ST.</u>



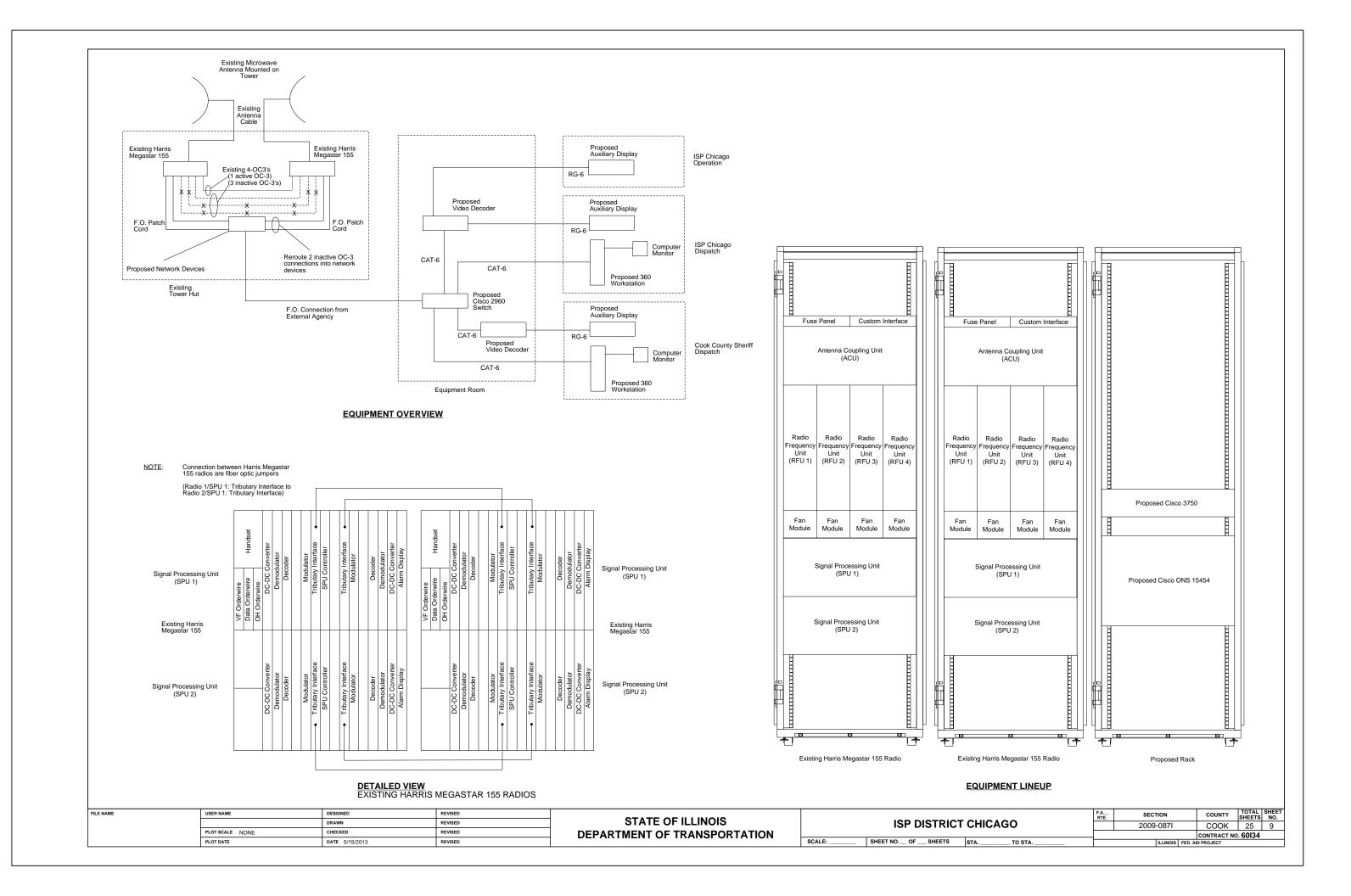
EXISTING CONDITIONS SHOWN IN HALF TONE PROPOSED CONDITIONS SHOWN IN BOLD

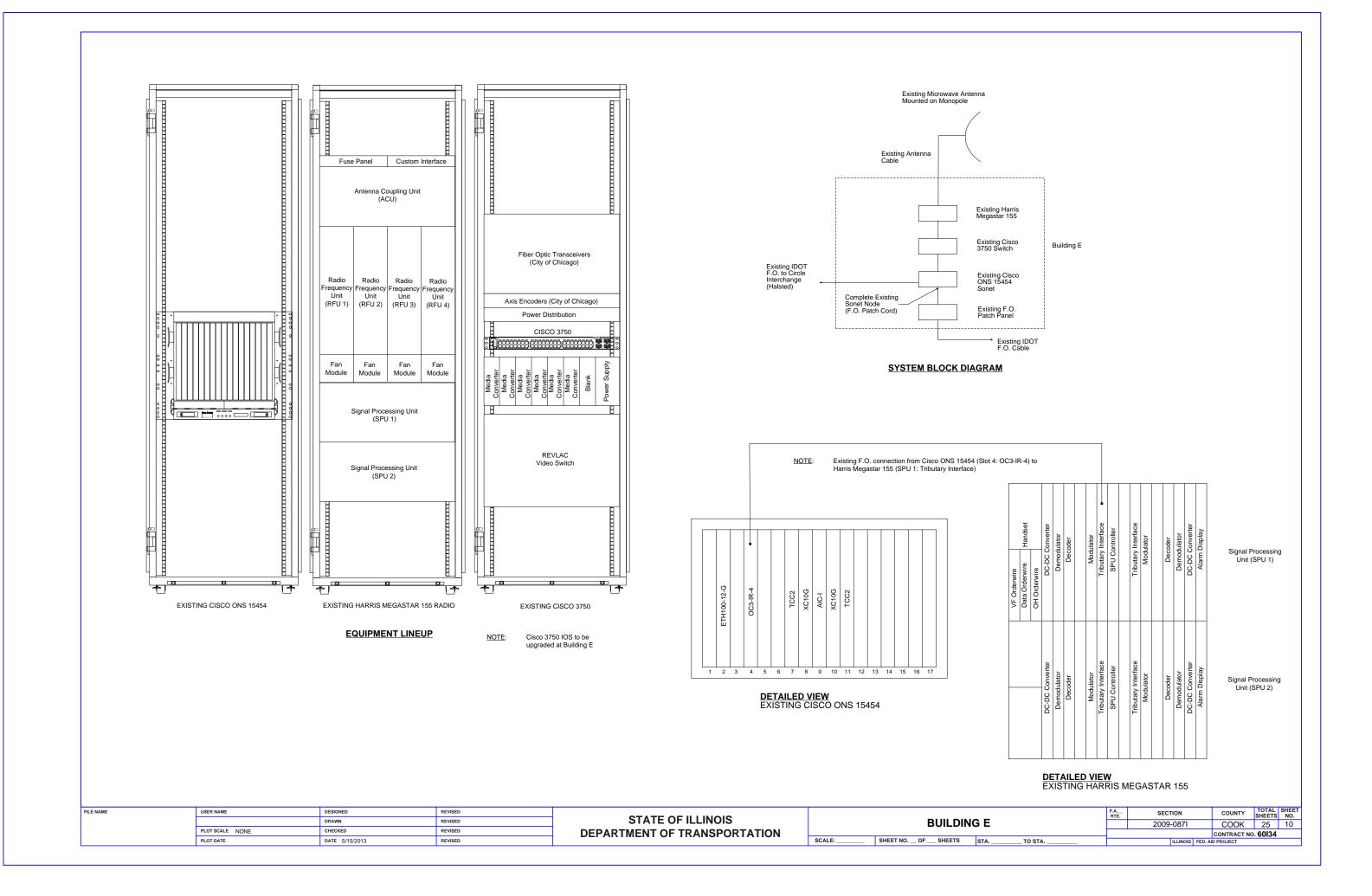


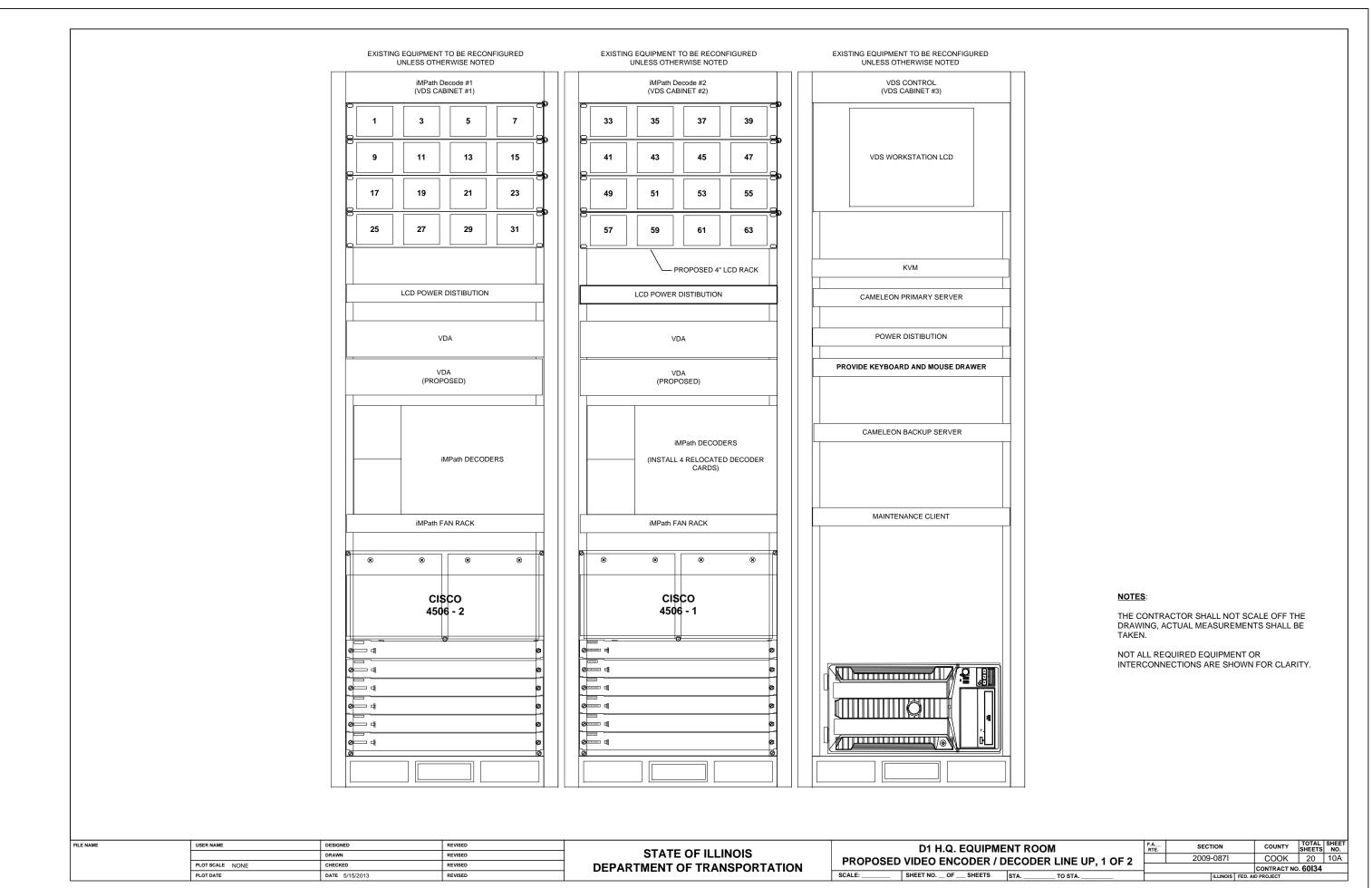
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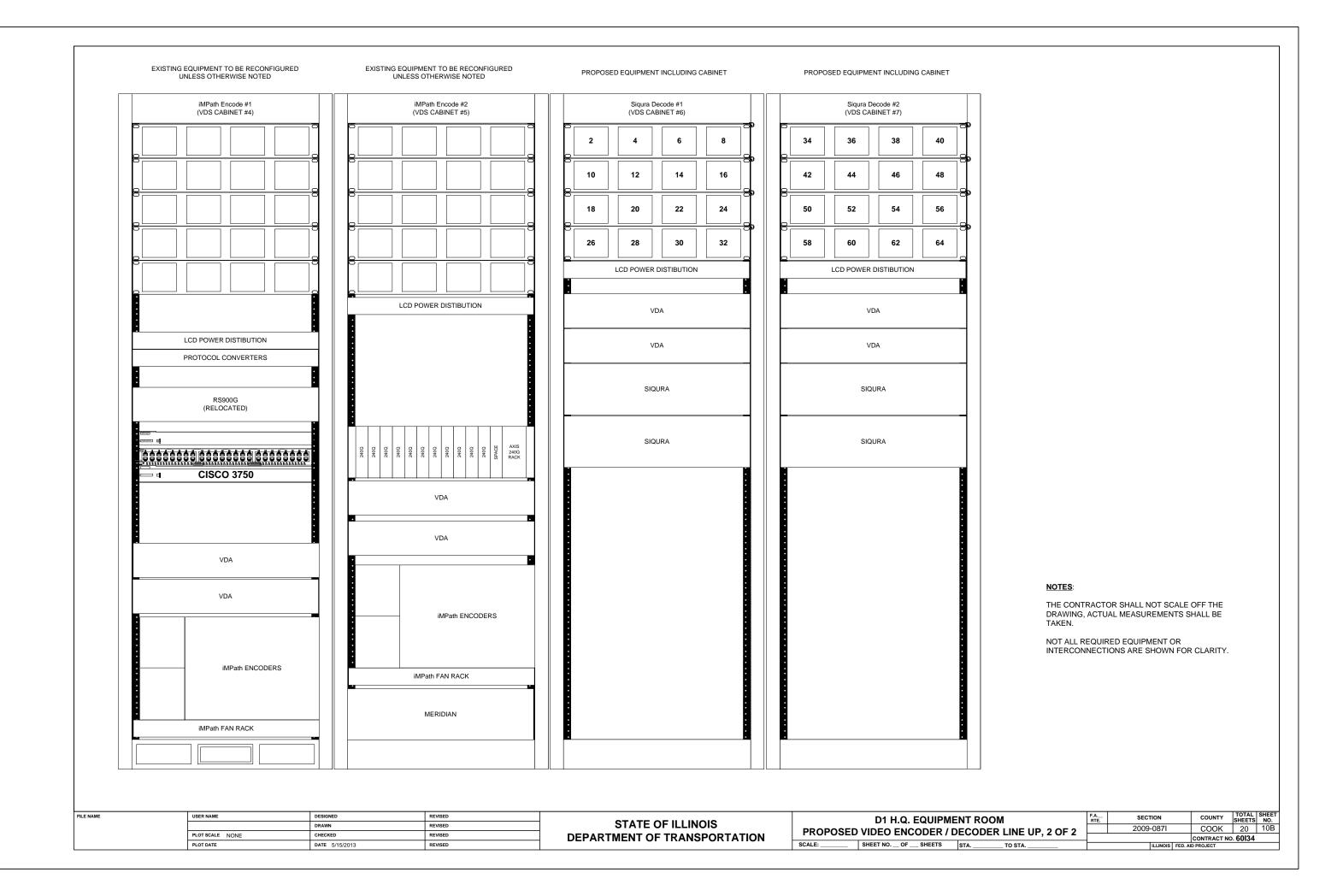
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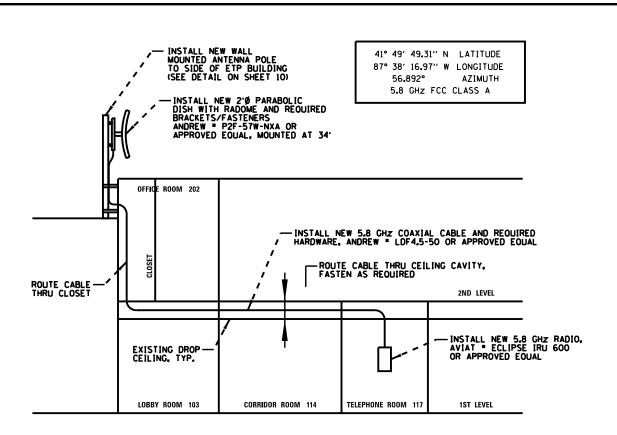
ITS CENTER-TO-CENTER INTEGRATION PROJECT	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE T
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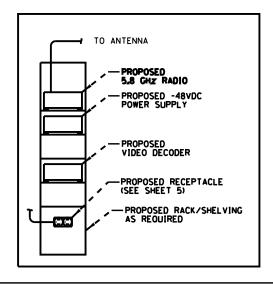






EXISTING ETP BUILDING ELEVATION LOOKING NORTH

RADIO & ANTENNA DETAIL - ETP



USE PROPOSED 120V RECEPTACLE FOR POWER TO EQUIPMENT

TELEPHONE ROOM - SOUTH WALL ELEVATION

EQUIPMENT LAYOUT DETAIL - ETP

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

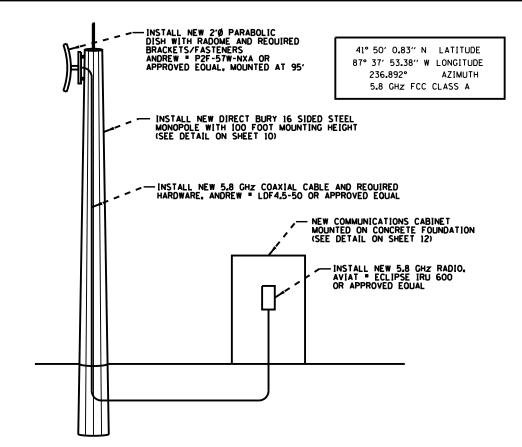
ITS CENTER-TO-CENTER INTEGRATION PROJECT RADIO, ANTENNA, & EQUIPMENT DETAILS — IDOT ETP / DAN RYAN

COUNTY TOTAL SHEET NO.

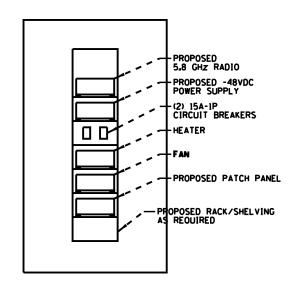
COOK 25 11 SECTION 2009-0871 CONTRACT NO. 60134

LEGEND

PROJECT
LOCATION

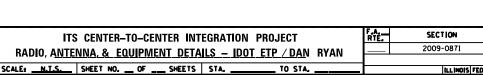


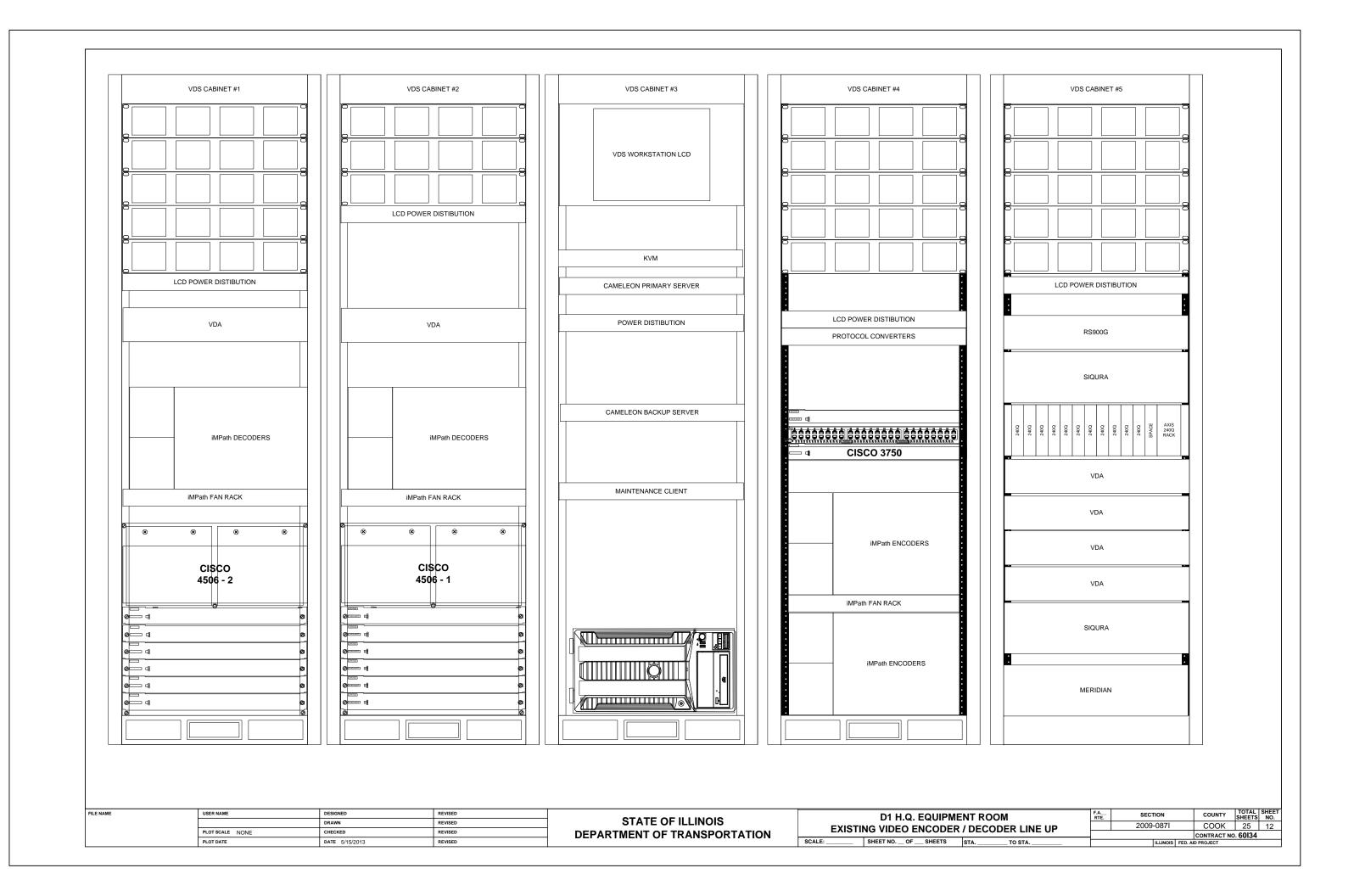
RADIO & ANTENNA DETAIL – DAN RYAN



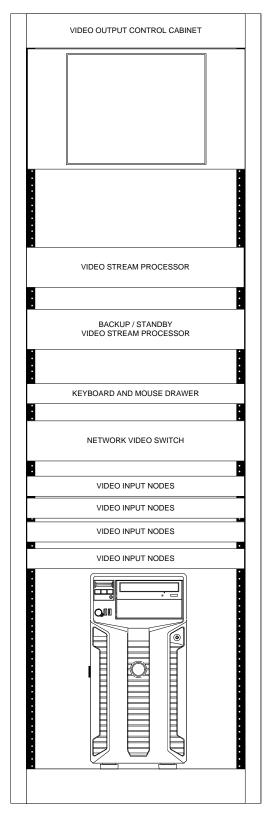
PROPOSED COMMUNICATIONS CABINET ELEVATION

EQUIPMENT LAYOUT DETAIL - DAN RYAN





PROPOSED EQUIPMENT INCLUDING CABINET



LCD RACK MOUNT MONITOR

RACK MOUNT COMPUTER KEYBOARD WITH SLIDING SHELF

NOTES

THE CONTRACTOR SHALL NOT SCALE OFF THE DRAWING, ACTUAL MEASUREMENTS SHALL BE TAKEN.

NOT ALL REQUIRED EQUIPMENT OR INTERCONNECTIONS ARE SHOWN FOR CLARITY.

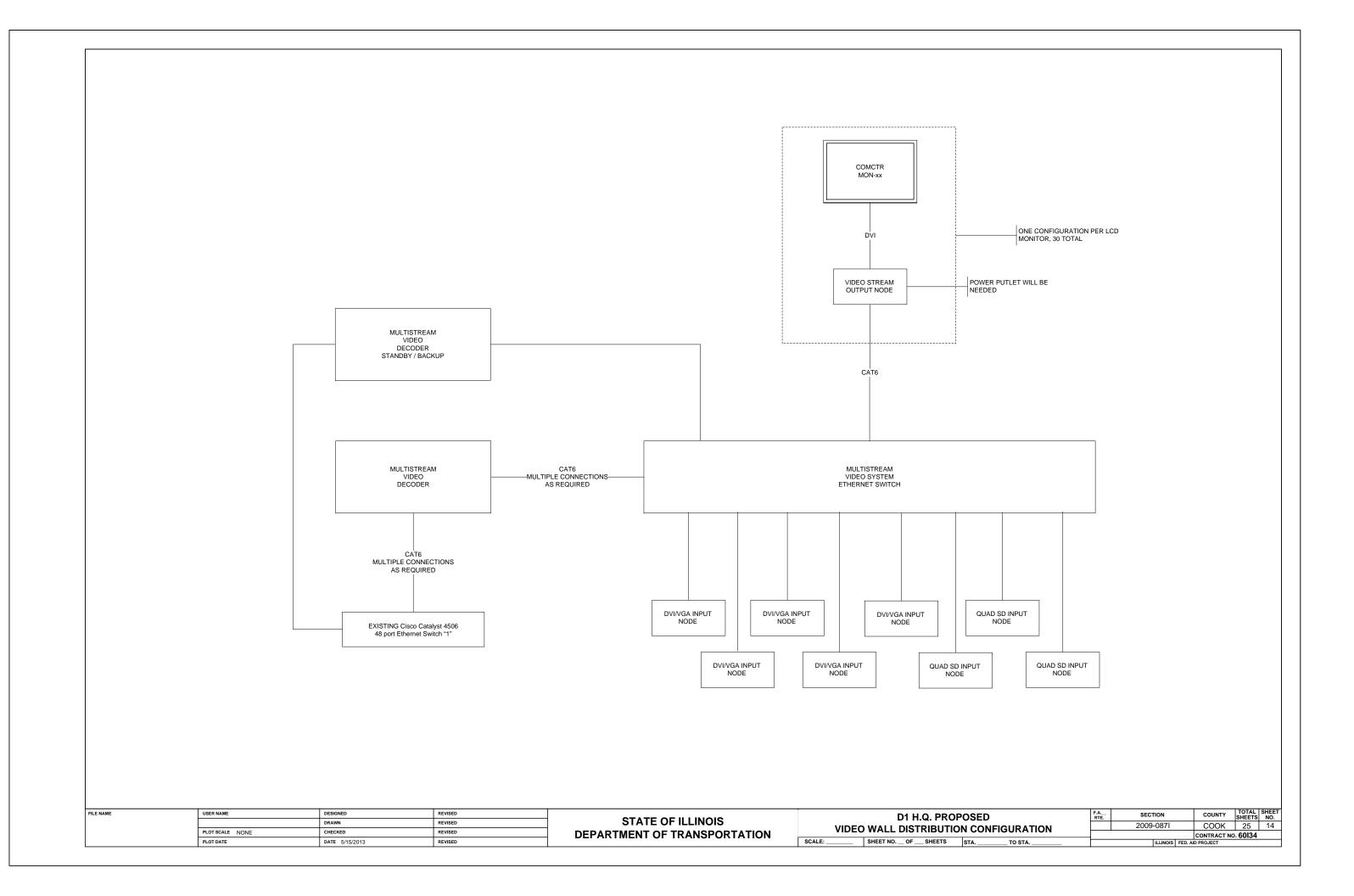
PROPOSED VIDEO CONTROL WORKSTATION

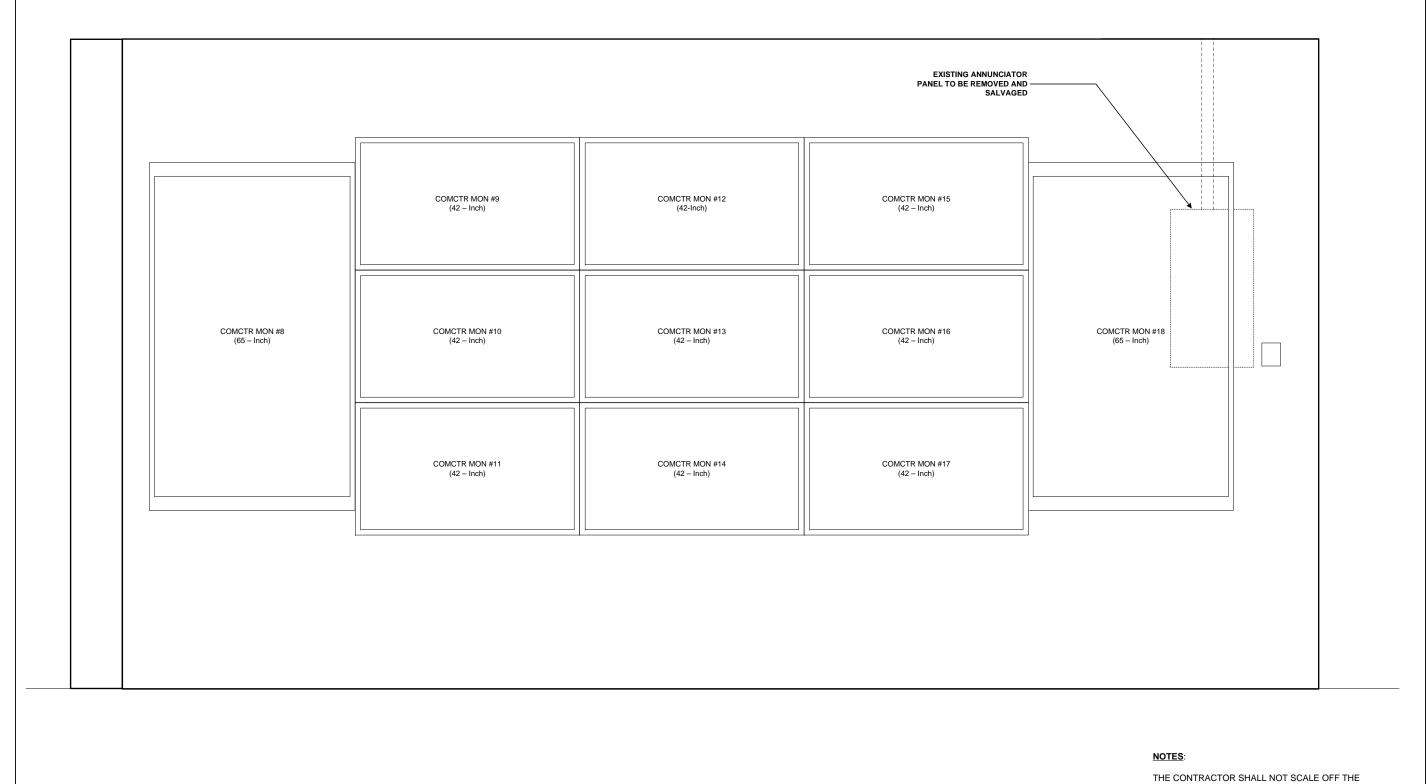
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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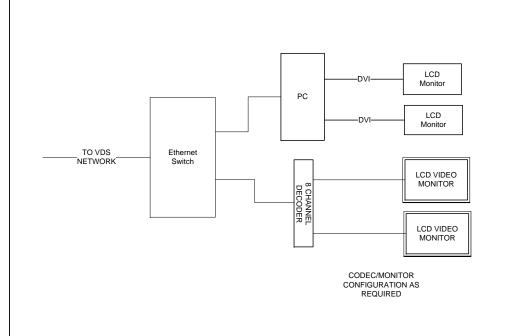




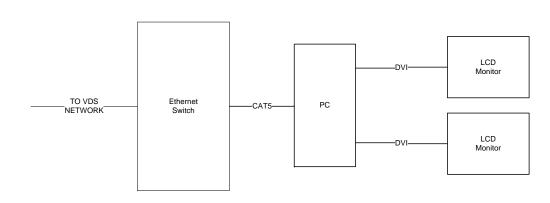
THE CONTRACTOR SHALL NOT SCALE OFF THE DRAWING, ACTUAL MEASUREMENTS SHALL BE TAKEN.

NOT ALL REQUIRED EQUIPMENT OR INTERCONNECTIONS ARE SHOWN FOR CLARITY.

FILE NAME	USER NAME	DESIGNED	REVISED		Г	D1 H.Q. COMMUNICATIONS CENTER	F.A RTF	SECTION	COUNTY SHEET NO
		DRAWN	REVISED	STATE OF ILLINOIS			2009-0871	COOK 25 15	
	PLOT SCALE NONE	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	VIDEO WALL DISPLAY				CONTRACT NO. 60134
	PLOT DATE	DATE 5/15/2013	REVISED		SCALE:	SHEET NO OF SHEETS		ILLINOIS FED.	AID PROJECT



VIDEO DISTRIBUTION SYSTEM WORKSTATION TYPE A



VIDEO DISTRIBUTION SYSTEM WORKSTATION TYPE B

FILE NAME	USER NAME	DESIGNED	REVISED
		DRAWN	REVISED
	PLOT SCALE NONE	CHECKED	REVISED
	PLOT DATE	DATE 5/15/2013	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VIDEO DISTRIBUTION SYSTEM VIDEO WORKSTATIONS			F.A RTE.	SECTION			COUNTY	TOTAL SHEETS		
				2009-0871		COOK	25	16		
				CONTRACT NO. 60I34						
SCALE:	SHEET NO OF SHEETS	STA.	TO STA.		ILLINOIS FED, AID PROJECT					

