FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
64	82-6K-1	ST. CLAIR	188	84
STA. _____		TO STA. _____		
CONTRACT NO.: ~~76726~~ 76B15				

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
LAND FILE NAME		
NOTE BOOK NO.		

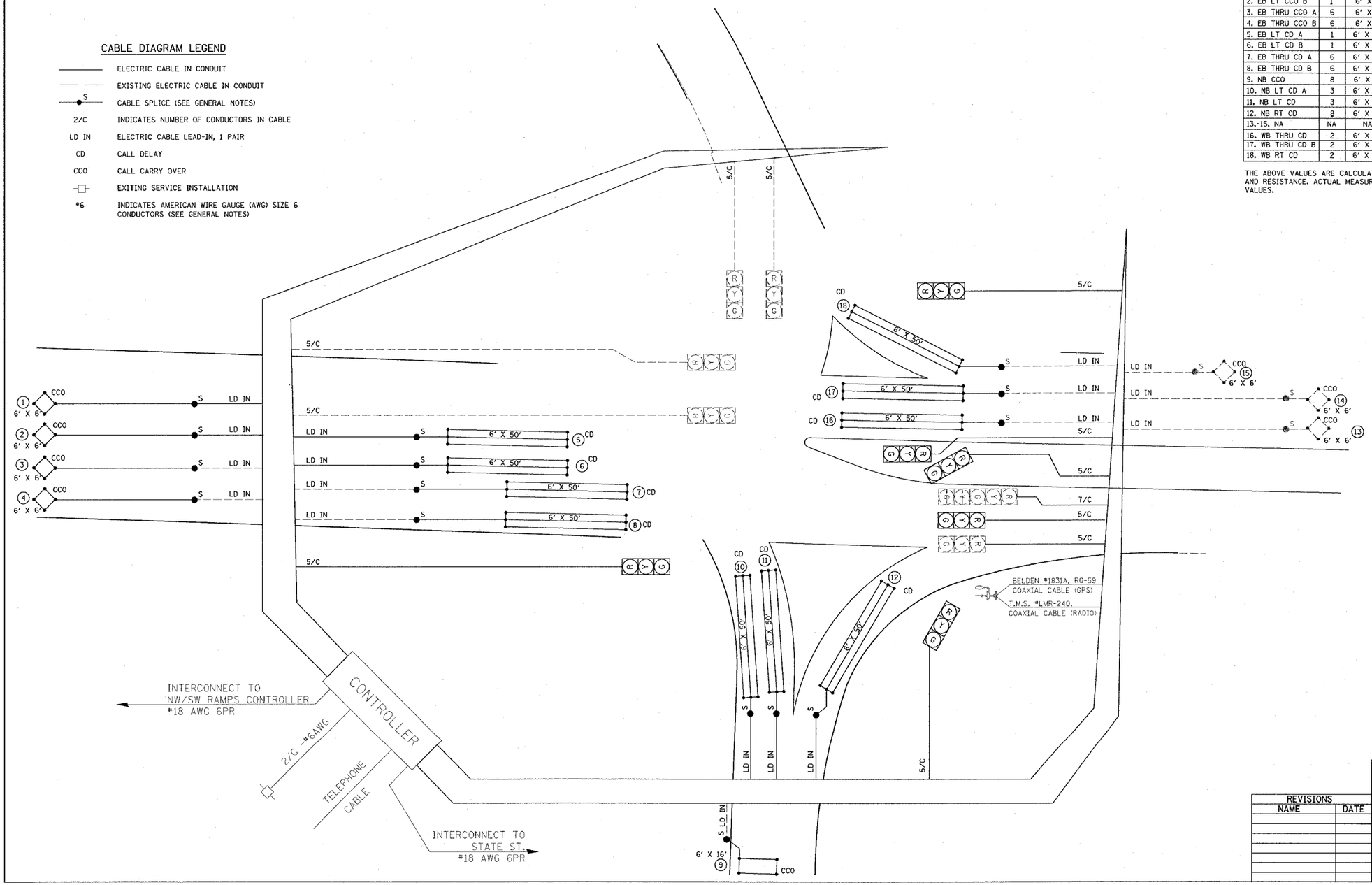
CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- EXISTING ELECTRIC CABLE IN CONDUIT
- S — CABLE SPLICE (SEE GENERAL NOTES)
- 2/C — INDICATES NUMBER OF CONDUCTORS IN CABLE
- LD IN — ELECTRIC CABLE LEAD-IN, 1 PAIR
- CD — CALL DELAY
- CCO — CALL CARRY OVER
- EXITING SERVICE INSTALLATION
- #6 — INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR W. HIGHWAY 50 AND WB I-64 EXIT RAMP

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB LT CCO	1	6' X 6	6	355.0	2.6
2. EB LT CCO B	1	6' X 6'	6	352.3	2.6
3. EB THRU CCO A	6	6' X 6'	6	350.0	2.5
4. EB THRU CCO B	6	6' X 6'	6	347.2	2.5
5. EB LT CD A	1	6' X 50'	3-6-3	808.4	2.1
6. EB LT CD B	1	6' X 50'	3-6-3	807.4	2.1
7. EB THRU CD A	6	6' X 50'	3-6-3	799.3	1.9
8. EB THRU CD B	6	6' X 50'	3-6-3	797.3	1.6
9. NB CCO	8	6' X 16'	6	555.1	2.7
10. NB LT CD A	3	6' X 50'	3-6-3	800.5	1.9
11. NB LT CD	3	6' X 50'	3-6-3	803.3	1.6
12. NB RT CD	8	6' X 50'	3-6-3	819.7	1.6
13.-15. NA	NA	NA	NA	NA	NA
16. WB THRU CD	2	6' X 50'	3-6-3	857.8	3.2
17. WB THRU CD B	2	6' X 50'	3-6-3	855.6	3.2
18. WB RT CD	2	6' X 50'	3-6-3	852.8	3.2

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

W. HWY. 50 AND NE/SE I-64 RAMPS CABLE DIAGRAMS

FAI 64
SECTION 82-6K-1
ST. CLAIR COUNTY

DRAWN BY:

PLOT DATE: 7/1/2005

#@/DATE#
7/1/2005
c:\pw_pwrs\ed85904\electrical\tsp\d85904a.dgn
*REF-
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