

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	201
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 60E10				

**RAILROAD TRACK, REMOVE (BY CONTRACTOR)**

EXIST. CN THOROUGHFARE TRACK TO BE REMOVED  
 STA. 799+10.00 TO STA. 799+21.00 = 11 TRK. FT.  
 STA. 800+36.00 TO STA. 800+55.00 = 19 TRK. FT.  
 STA. 800+36.00 TO STA. 800+83.00 = 47 TRK. FT.  
 EXIST. CN GATEWAY LEAD TRACK TO BE REMOVED  
 STA. 699+19.00 TO STA. 702+48.00 = 329 TRK. FT.  
 STA. 703+68.00 TO STA. 704+30.00 = 62 TRK. FT.  
 STA. 703+68.00 TO STA. 704+30.00 = 62 TRK. FT.  
 TOTAL = 530 TRK. FT.

**RAILROAD TRACK SHIFT (BY CN)**

REALIGN EXIST. CN THOROUGHFARE TRACK  
 STA. 795+70.03 TO 797+46.91  
 STA. 800+55.31 TO 801+58.43  
 REALIGN CN GATEWAY LEAD TRACK  
 STA. 691+59.19 TO 693+97.44

**RAILROAD TRACK SHIFT (BY METRA)**

REALIGN EXIST. METRA TRACK 2  
 STA. 194+15.86 TO 195+47.84  
 STA. 197+07.18 TO 198+87.72

**RAILROAD TRACK SHIFT ASSIST (BY CONTRACTOR)**

1 EACH FOR ABOVE CN TRACK SHIFTS  
 TOTAL = 3 EA.

**RAILROAD TRACK, REMOVE (BY METRA)**

EXIST. METRA TRACK 2 TO BE REMOVED  
 STA. 197+06.84 TO STA. 201+84.84 = 478 TRK. FT.  
 TOTAL = 478 TRK. FT.

**RELOCATE NO. 10 TURNOUT (BY CN)**

CN GATEWAY LEAD TRACK  
 STA. 701+91.51, R.H. = 1 EA.  
 TOTAL = 1 EA.

**RAILROAD TRACK (BY METRA)**

TEMP. METRA TRACK 2  
 STA. 195+47.84 TO 197+07.18 = 159 TRK. FT.  
 TOTAL = 159 TRK. FT.

**RAILROAD TRACK (BY CN)**

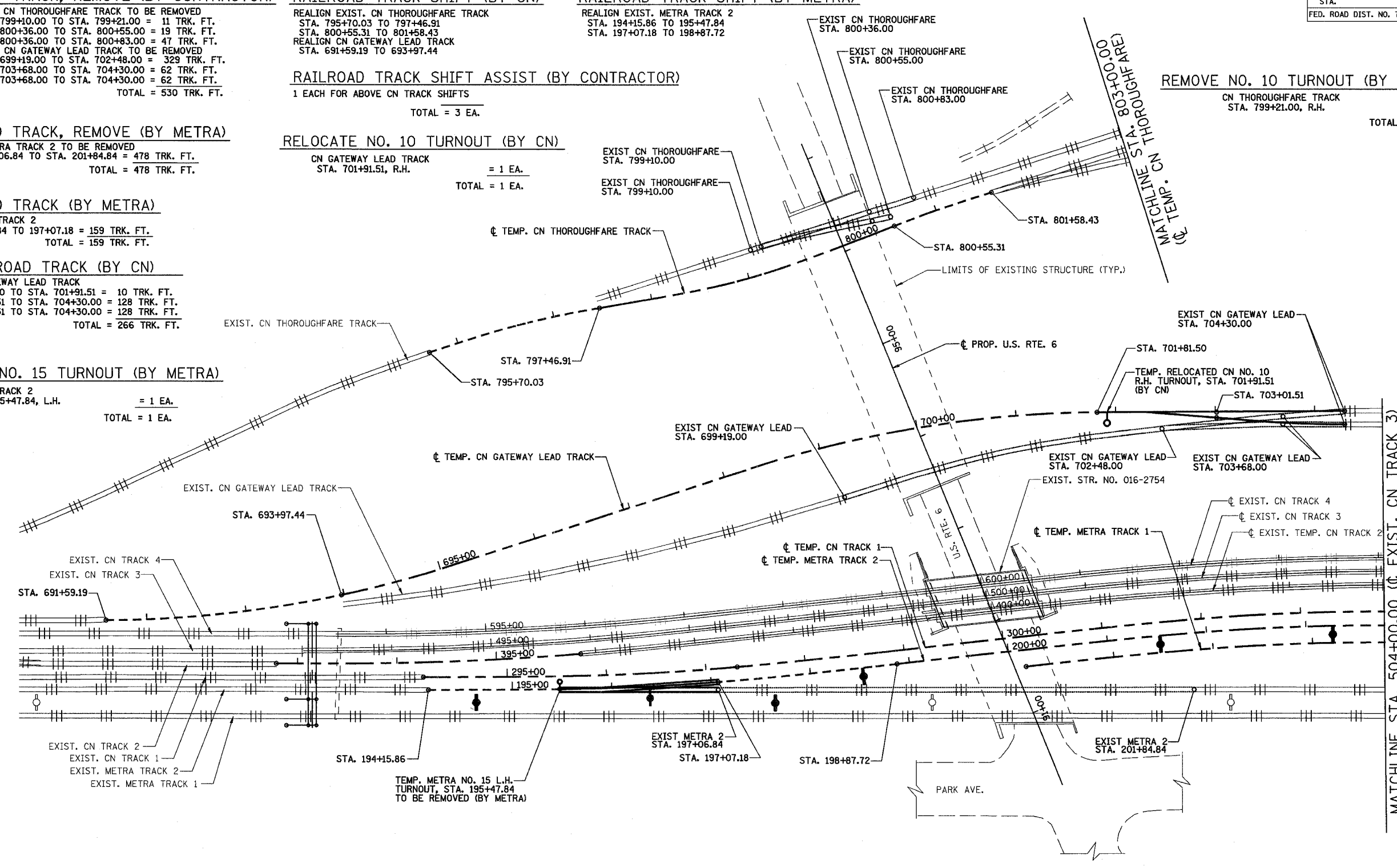
TEMP. CN GATEWAY LEAD TRACK  
 STA. 701+81.50 TO STA. 701+91.51 = 10 TRK. FT.  
 STA. 703+01.51 TO STA. 704+30.00 = 128 TRK. FT.  
 STA. 703+01.51 TO STA. 704+30.00 = 128 TRK. FT.  
 TOTAL = 266 TRK. FT.

**REMOVE NO. 15 TURNOUT (BY METRA)**

METRA TRACK 2  
 STA. 195+47.84, L.H. = 1 EA.  
 TOTAL = 1 EA.

**REMOVE NO. 10 TURNOUT (BY CONTRACTOR)**

CN THOROUGHFARE TRACK  
 STA. 799+21.00, R.H. = 1 EA.  
 TOTAL = 1 EA.



**STAGE 3**

NOTES:  
 FOR STAGE 3 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 29.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

STAGE 3 WORK SUMMARY	
REMOVE TURNOUTS AND REALIGN METRA 2 TO 55 MPH	
CUT AND THROW CN THOROUGHFARE TRACK AND CN GATEWAY LEAD TRACK	
REMOVE PORTIONS OF TRACK	

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PLAN OF STAGE 3 WORK (NORTH)

SHT. 27 OF 88  
 DATE 2/21/2008

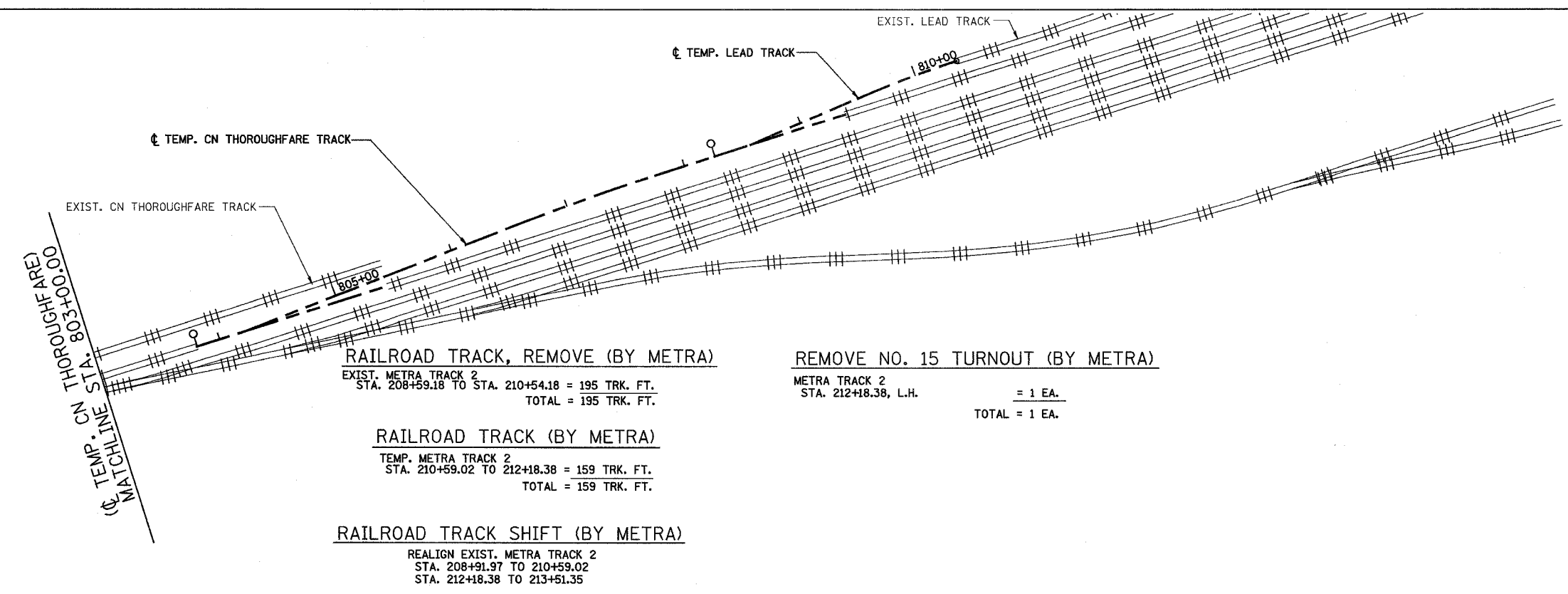
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	202
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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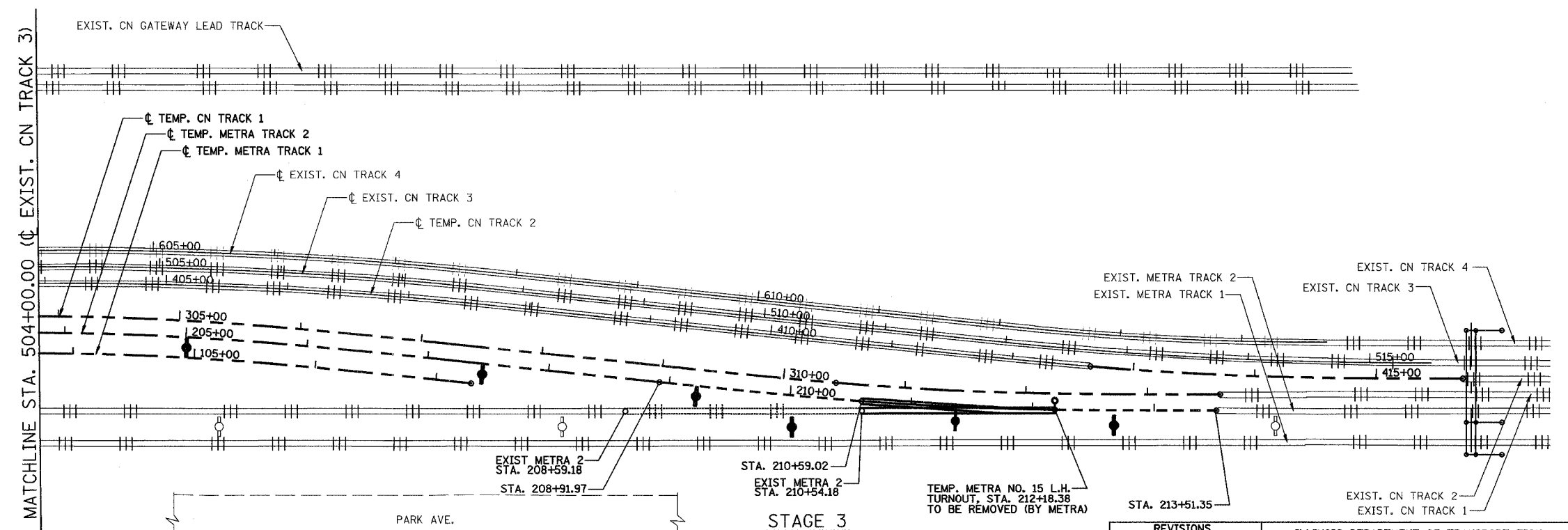


**RAILROAD TRACK, REMOVE (BY METRA)**  
 EXIST. METRA TRACK 2  
 STA. 208+59.18 TO STA. 210+54.18 = 195 TRK. FT.  
 TOTAL = 195 TRK. FT.

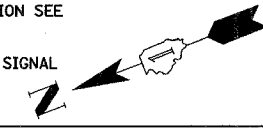
**RAILROAD TRACK (BY METRA)**  
 TEMP. METRA TRACK 2  
 STA. 210+59.02 TO 212+18.38 = 159 TRK. FT.  
 TOTAL = 159 TRK. FT.

**RAILROAD TRACK SHIFT (BY METRA)**  
 REALIGN EXIST. METRA TRACK 2  
 STA. 208+91.97 TO 210+59.02  
 STA. 212+18.38 TO 213+51.35

**REMOVE NO. 15 TURNOUT (BY METRA)**  
 METRA TRACK 2  
 STA. 212+18.38, L.H. = 1 EA.  
 TOTAL = 1 EA.



**NOTES:**  
 FOR STAGE 3 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 29.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.



REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 3 WORK (SOUTH)**

SHT. 28 OF 88  
 DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	203
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

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**SUGGESTED STAGE 3 TRACK CONSTRUCTION SEQUENCE**

1. REMOVE TEMPORARY SWITCHES AND REINSTALL 165' TRACK PANELS; RE-ALIGN TEMPORARY METRA TRACK #2 (TWO CONSECUTIVE SUNDAYS) METRA WILL HAVE TO REALIGN BOTH ENTIRE CURVES TO 55 MPH ALIGNMENTS - APPROX. 472' @ NORTH END AND 460' AT SOUTH END. (STA. 194+15.86 TO STA. 198+87.82 AND STA. 208+91.97 TO STA. 213+51.35) (METRA).
2. REMOVE ELECTRIC LOCK & INSULATED JOINTS FOR METRA TRACK #2 (CONCURRENT WITH PREVIOUS STEP) (METRA)
3. REMOVE PORTION OF EXISTING METRA TRACK #2 (STA. 197+07.18 TO APPROX. STA. 210+59.02 (1346')). (CAN BE DONE AS SOON AS DC DEPARTMENT RAIL ACCESS IS NO LONGER NEEDED JUST BEFORE OR CONCURRENT WITH REMOVAL OF TEMPORARY SWITCHES) (METRA)
4. CUT AND THROW TEMP. CN GATEWAY LEAD TRACK (STA. 691+59.19 TO STA. 693+40.65 AND RELOCATE NO. 10 TURNOUT AT STA. 701+91.51 TO STA. 704+30.00) AND PLACE IN SERVICE. (CN)
5. CUT AND THROW TEMP. CN THOROUGHFARE (STA. 795+70.03 TO STA. 797+46.91 AND STA. 800+55.31 TO STA. 801+58.43 AND STA. 805+42.36 TO STA. 808+25.75) AND PLACE IN SERVICE. (CN)
6. REMOVE PORTIONS OF EXISTING RAILROAD TRACK FOR EXIST. CN GATEWAY LEAD TRACK AND EXIST. CN THOROUGHFARE (INCLUDES EXISTING NO. 10 TURNOUT ON BRIDGE). (CONTRACTOR)

NOTE:  
DURATIONS NOTED ABOVE FOR WORK PERFORMED BY METRA AND THE CN ARE APPROXIMATE ONLY AND SUBJECT TO WEATHER CONDITIONS, AVAILABILITY OF RAILROAD STAFF, AND NUMEROUS OTHER FACTORS. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK AND PLANNED SCHEDULE WITH THE RAILROADS CONCERNING WORK TO BE PERFORMED BY THE RAILROADS. NO ADDITIONAL TIME WILL BE ALLOWED IN THE CONTRACTOR'S SCHEDULE FOR MEETING OF THE INTERIM COMPLETION DATES SPECIFIED FOR THIS PROJECT DUE TO VARIATIONS IN THESE APPROXIMATE DURATIONS.

**SUMMARY OF QUANTITIES FOR SUGGESTED STAGE 3 TRACK CONSTRUCTION TASKS**

ITEM	UNIT	CONTRACTOR PAY ITEM QUANTITY	QUANTITY BY RR	
			METRA	CN
RAILROAD TRACK, REMOVE	TRK. FT.	530	673	
RAILROAD TRACK SHIFT ASSIST	EACH	3		
REMOVE NO. 10 TURNOUT	EACH	1		
RAILROAD TRACK	TRK. FT.		318	266
REMOVE NO. 15 TURNOUT	EACH		2	
RELOCATE NO. 10 TURNOUT	EACH			1
RAILROAD TRACK SHIFT	EACH		4	3

NOTES:  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION OF CATENARY SUPPORT AND CATENARY DEAD END STRUCTURES SEE CATENARY STRUCTURES SHEETS.

FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF CONDUITS AND CABLES FOR RE-ROUTING OF METRA AC POWER AND FIBER OPTIC SCADA/COMMUNICATION SYSTEM, SEE METRA UTILITIES SHEETS.

FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF METRA SIGNAL SYSTEM, SEE METRA SIGNALS SHEETS.

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REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
STAGE 3 TASKS AND SEQUENCING**

SHT. 29 OF 88  
DATE 2/21/2008  
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	204
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

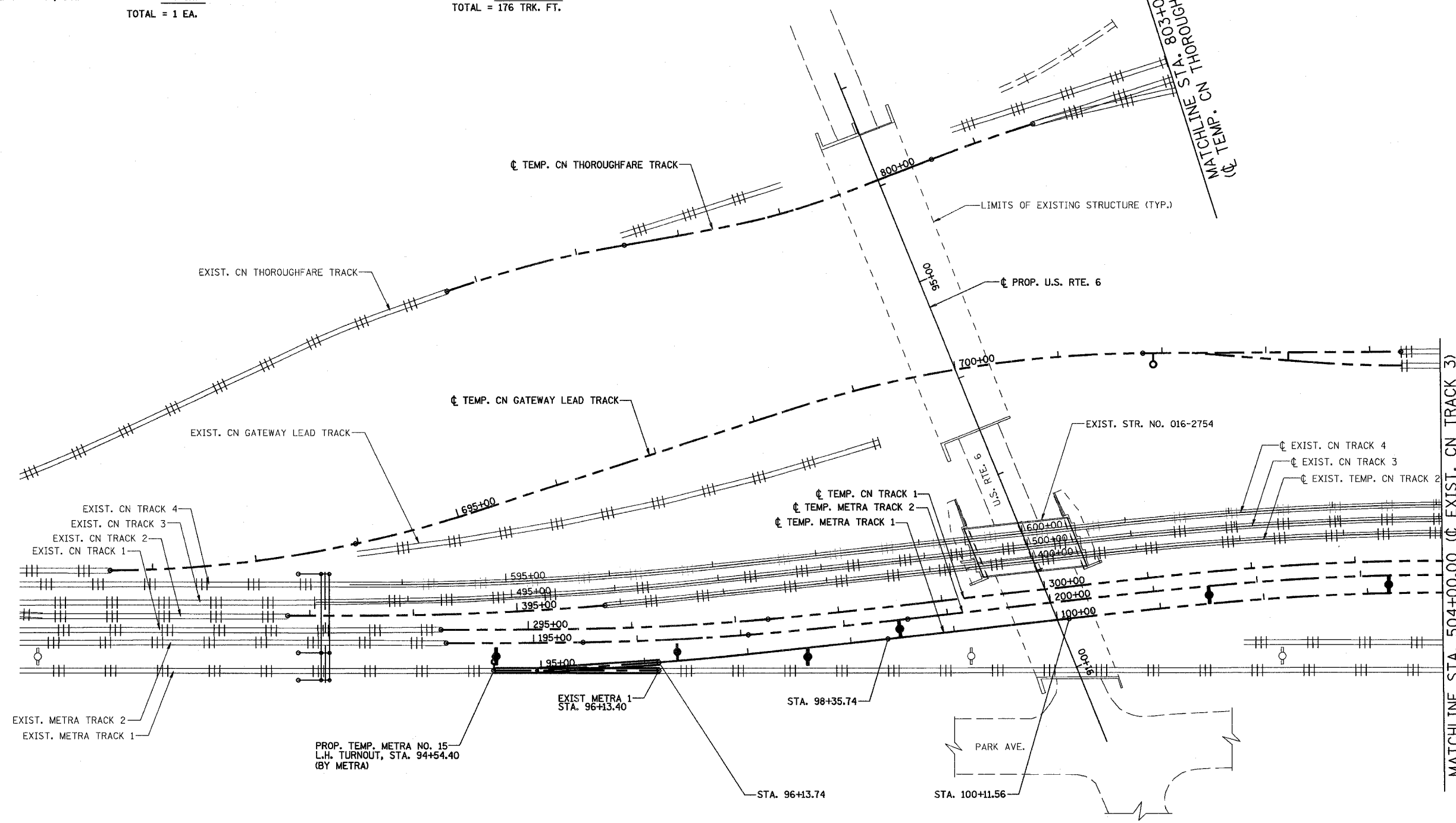
CONTRACT NO. 60E10

**RAILROAD TRACK, REMOVE (BY METRA)**  
 EXIST. METRA TRACK 1 TO BE REMOVED  
 STA. 94+54.40 TO STA. 96+13.40 = 159 TRK. FT.  
 TOTAL = 159 TRK. FT.

**RAILROAD TRACK (BY METRA)**  
 TEMP. METRA TRACK 1  
 STA. 96+13.74 TO 98+35.74 = 222 TRK. FT.  
 TOTAL = 222 TRK. FT.

**TEMPORARY NO. 15 TURNOUT (BY METRA)**  
 METRA TRACK 1  
 STA. 94+54.40, L.H. = 1 EA.  
 TOTAL = 1 EA.

**RAILROAD TRACK (BY CONTRACTOR)**  
 TEMP. METRA TRACK 1  
 STA. 98+35.74 TO 100+11.56 = 176 TRK. FT.  
 TOTAL = 176 TRK. FT.



**STAGE 4**

**NOTES:**  
 FOR STAGE 4 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 32.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

STAGE 4 WORK SUMMARY	
BUILD PORTIONS OF METRA 1	
INSTALL METRA 1 TURNOUTS AND CONSTRUCT TEMP. TRACK 1 CATENARY	

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 4 WORK (NORTH)**

SHT. 30 OF 88  
 DATE 2/21/2008

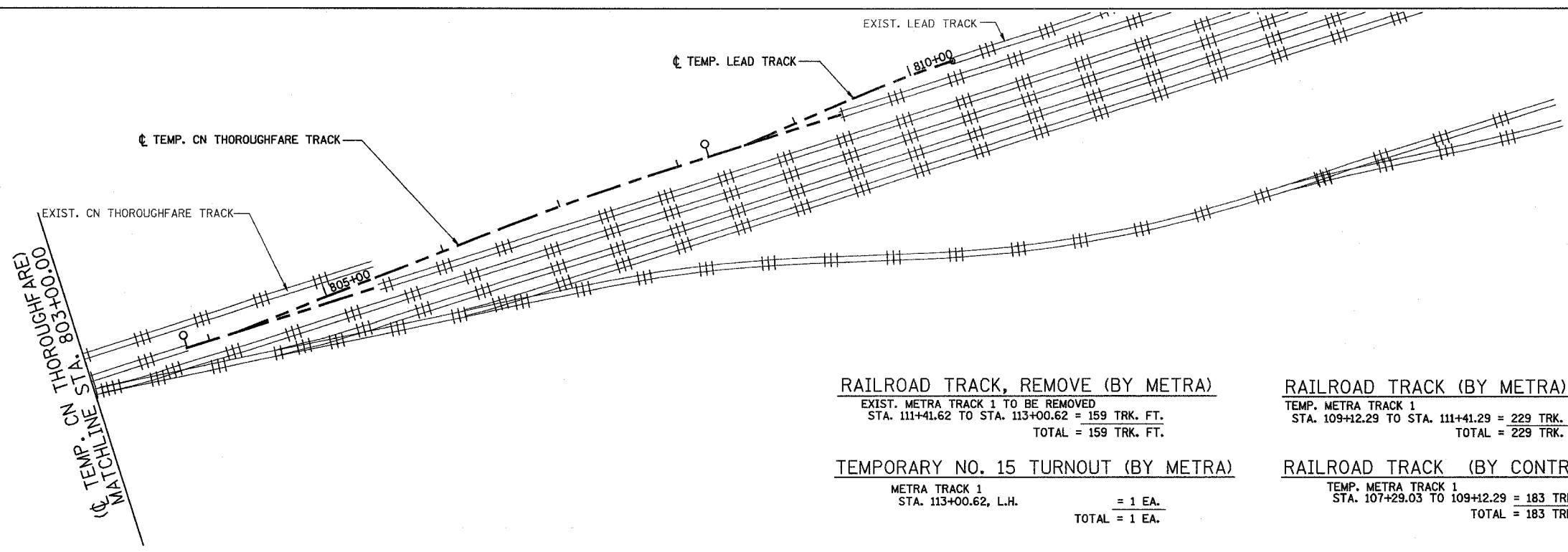
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	205
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO. 7	ILLINOIS		CONTRACT NO. 60E10	

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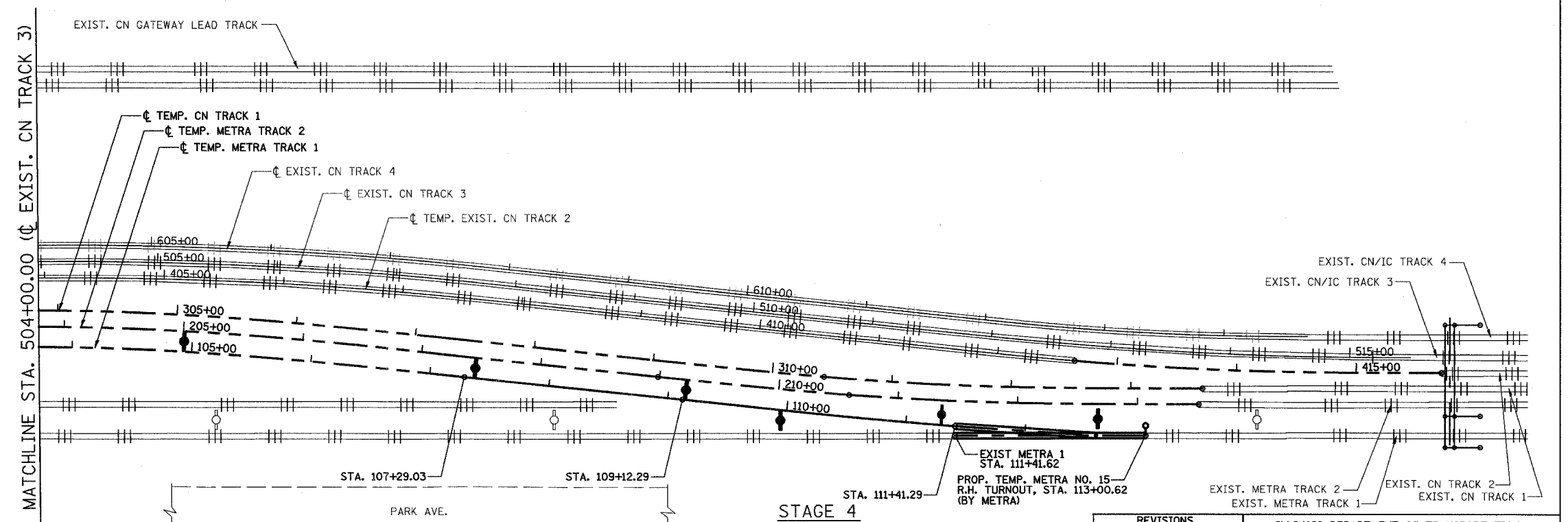
**RAILROAD TRACK, REMOVE (BY METRA)**  
 EXIST. METRA TRACK 1 TO BE REMOVED  
 STA. 111+41.62 TO STA. 113+00.62 = 159 TRK. FT.  
 TOTAL = 159 TRK. FT.

**RAILROAD TRACK (BY METRA)**  
 TEMP. METRA TRACK 1  
 STA. 109+12.29 TO STA. 111+41.29 = 229 TRK. FT.  
 TOTAL = 229 TRK. FT.

**TEMPORARY NO. 15 TURNOUT (BY METRA)**  
 METRA TRACK 1  
 STA. 113+00.62, L.H. = 1 EA.  
 TOTAL = 1 EA.

**RAILROAD TRACK (BY CONTRACTOR)**  
 TEMP. METRA TRACK 1  
 STA. 107+29.03 TO 109+12.29 = 183 TRK. FT.  
 TOTAL = 183 TRK. FT.

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NOTES:  
 FOR STAGE 4 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 32.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

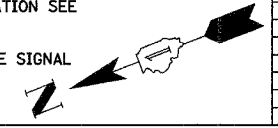
REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 4 WORK (SOUTH)**

SHT. 31 OF 88  
 DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	206
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

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**SUGGESTED STAGE 4 TRACK CONSTRUCTION SEQUENCE**

1. CONSTRUCT PORTION OF NEW TRACK FOR TEMP METRA TRACK #1 (CONTRACTOR & METRA). (MUST BE BUILT TO TEMPORARY ALIGNMENTS FOR TURNOUTS - NOT 55 MPH ALIGNMENTS AND MUST TAKE TURNOUT PANEL LENGTHS INTO ACCOUNT) (STA. 96+13.74 TO STA. 100+11.56 (398' = 176' CONTRACTOR + 222' METRA) AND STA. 107+29.03 TO STA. 111+41.29 (412' = 183' CONTRACTOR + 229' METRA).
2. INSTALL TEMPORARY SWITCHES BETWEEN EXISTING TRACK #1 AND TEMP TRACK #1 TO PROVIDE ACCESS FOR METRA EQUIPMENT TO CONSTRUCTION TEMPORARY CATENARY SERVICE (EACH OF TWO PANELS INSTALLED ON TWO DIFFERENT/CONSECUTIVE SUNDAYS ONLY CONSISTING OF TAKING OUT 159' PANEL, INSTALLING TURNOUT PANEL, CUT, THROW, SURFACE AND LINE 314' (N) & 315' (S) USE WORK TRAINS TO BALLAST THESE) (METRA)
3. INSTALL ELECTRIC LOCK ON METRA TRACK #1 WITH MAINLINE NORMAL & INSULATED JOINTS ON RUN-AROUND (CONCURRENT WITH PREVIOUS STEP) (METRA)
4. CONSTRUCT TEMPORARY CATENARY SERVICE (TWO WEEKS STRAIGHT TIME) AND PLACE TEMPORARY METRA TRACK #1 IN SERVICE (CUT OVER DC ON ONE SUNDAY AT BOTH ENDS - APPROXIMATELY 10 WEEKDAY WORKDAYS, APPROXIMATELY 15 TOTAL DAYS INCLUDING WEEKENDS) (METRA).
5. MOVE ELECTRIC LOCK TO METRA TRACK #1 WITH RUN-AROUND NORMAL & MOVE INSULATED JOINTS TO MAINLINE (CONCURRENT WITH PREVIOUS STEP) (METRA)
6. REMOVE EXISTING TRACK #1 CATENARY WIRES (BY METRA ON THE MONDAY FOLLOWING CATENARY SERVICE CONSTRUCTION FOR TRACK #1)
7. WAIT TIME AFTER COMPLETION OF PREV. STEP UNTL NEXT SUNDAY (WHEN NEXT STEP CAN BEGIN) (WED-SAT)

NOTE:  
DURATIONS NOTED ABOVE FOR WORK PERFORMED BY METRA AND THE CN ARE APPROXIMATE ONLY AND SUBJECT TO WEATHER CONDITIONS, AVAILABILITY OF RAILROAD STAFF, AND NUMEROUS OTHER FACTORS. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK AND PLANNED SCHEDULE WITH THE RAILROADS CONCERNING WORK TO BE PERFORMED BY THE RAILROADS. NO ADDITIONAL TIME WILL BE ALLOWED IN THE CONTRACTOR'S SCHEDULE FOR MEETING OF THE INTERIM COMPLETION DATES SPECIFIED FOR THIS PROJECT DUE TO VARIATIONS IN THESE APPROXIMATE DURATIONS.

**SUMMARY OF QUANTITIES FOR SUGGESTED STAGE 4 TRACK CONSTRUCTION TASKS**

ITEM	UNIT	CONTRACTOR PAY ITEM QUANTITY	QUANTITY BY RR	
			METRA	CN
RAILROAD TRACK	TRK. FT.	359	451	
RAILROAD TRACK, REMOVE	TRK. FT.		318	
INSTALL TEMPORARY NO. 15 TURNOUT	EACH		2	

NOTES:  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION OF CATENARY SUPPORT AND CATENARY DEAD END STRUCTURES SEE CATENARY STRUCTURES SHEETS.  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF CONDUITS AND CABLES FOR RE-ROUTING OF METRA AC POWER AND FIBER OPTIC SCADA/COMMUNICATION SYSTEM, SEE METRA UTILITIES SHEETS.  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF METRA SIGNAL SYSTEM, SEE METRA SIGNALS SHEETS.

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
STAGE 4 TASKS AND SEQUENCING

SHT. 32 OF 88  
DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	207
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

**RAILROAD TRACK, REMOVE (BY METRA)**

EXIST. METRA TRACK 1 TO BE REMOVED  
 STA. 98+59.77 TO STA. 101+78.77 = 319 TRK. FT.  
 TOTAL = 319 TRK. FT.

**REMOVE NO. 15 TURNOUT (BY METRA)**

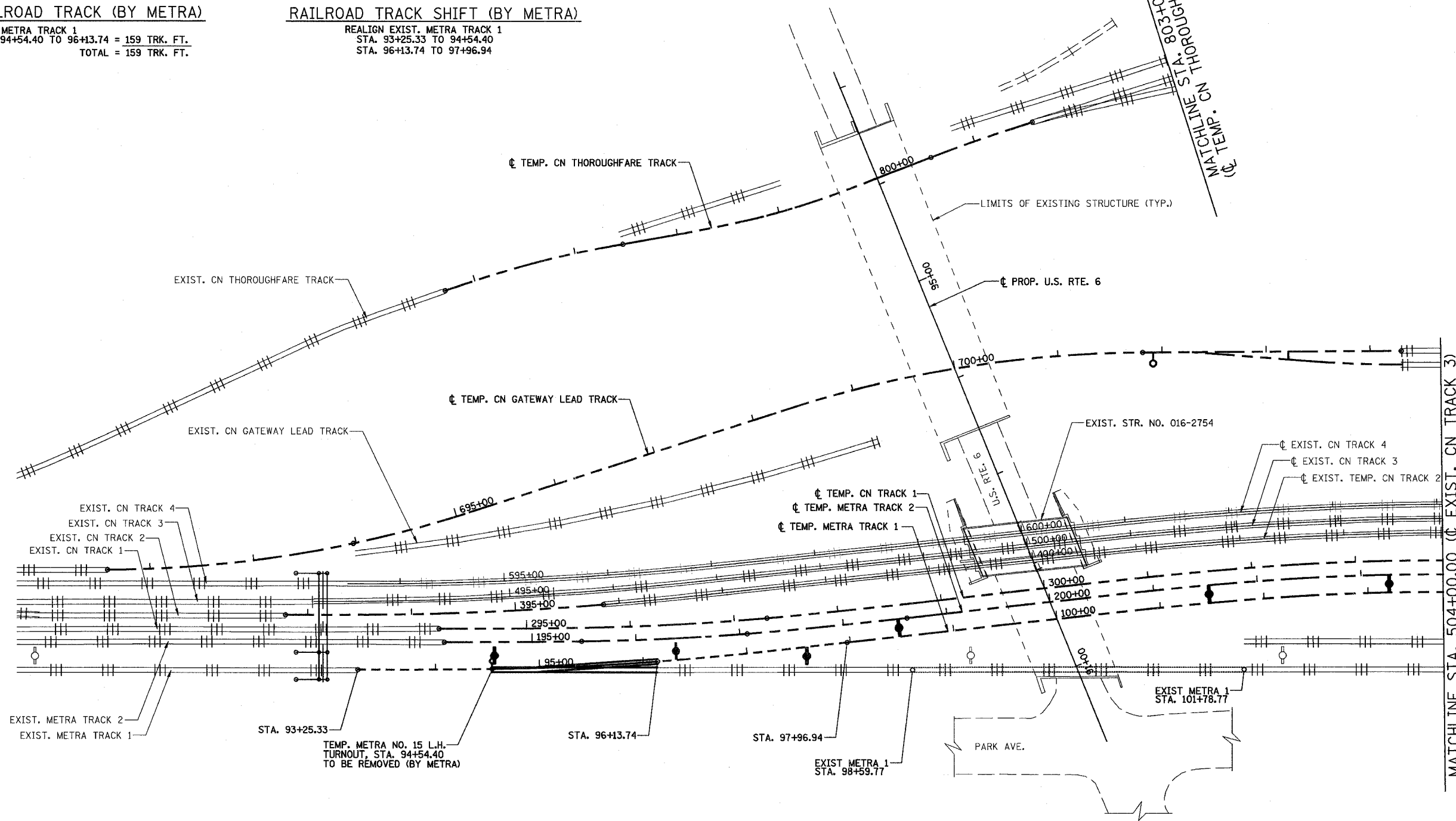
METRA TRACK 1  
 STA. 94+54.40, L.H. = 1 EA.  
 TOTAL = 1 EA.

**RAILROAD TRACK (BY METRA)**

TEMP. METRA TRACK 1  
 STA. 94+54.40 TO 96+13.74 = 159 TRK. FT.  
 TOTAL = 159 TRK. FT.

**RAILROAD TRACK SHIFT (BY METRA)**

REALIGN EXIST. METRA TRACK 1  
 STA. 93+25.33 TO 94+54.40  
 STA. 96+13.74 TO 97+96.94



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**STAGE 5**

- NOTES:
- FOR STAGE 5 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 35.
  - FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.
  - FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.
  - FOR LEGEND, SEE SHEET 21.

**STAGE 5 WORK SUMMARY**

REMOVE TURNOUTS AND RE-ALIGN TEMP. METRA 1 TO 55 MPH  
 CONSTRUCT 2-TRACK METRA PORTION OF BRIDGE

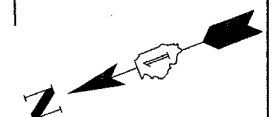
REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 5 WORK (NORTH)**

SHT. 33 OF 88  
 DATE 2/21/2008

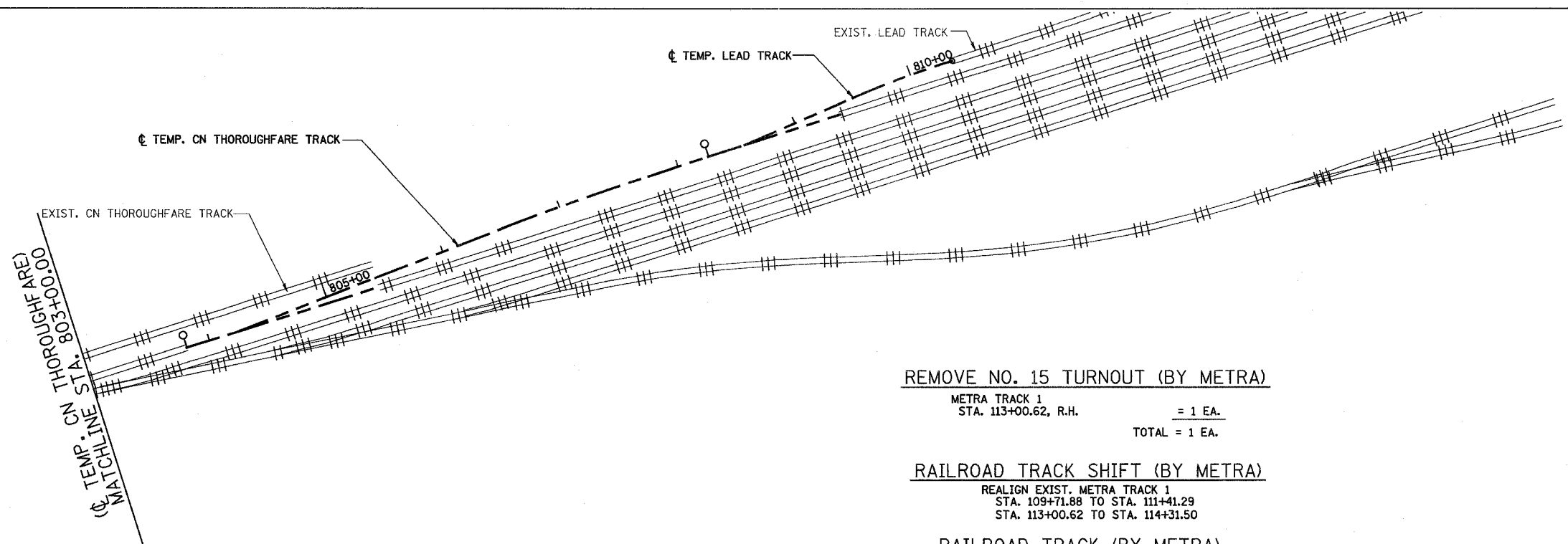
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	208
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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**REMOVE NO. 15 TURNOUT (BY METRA)**

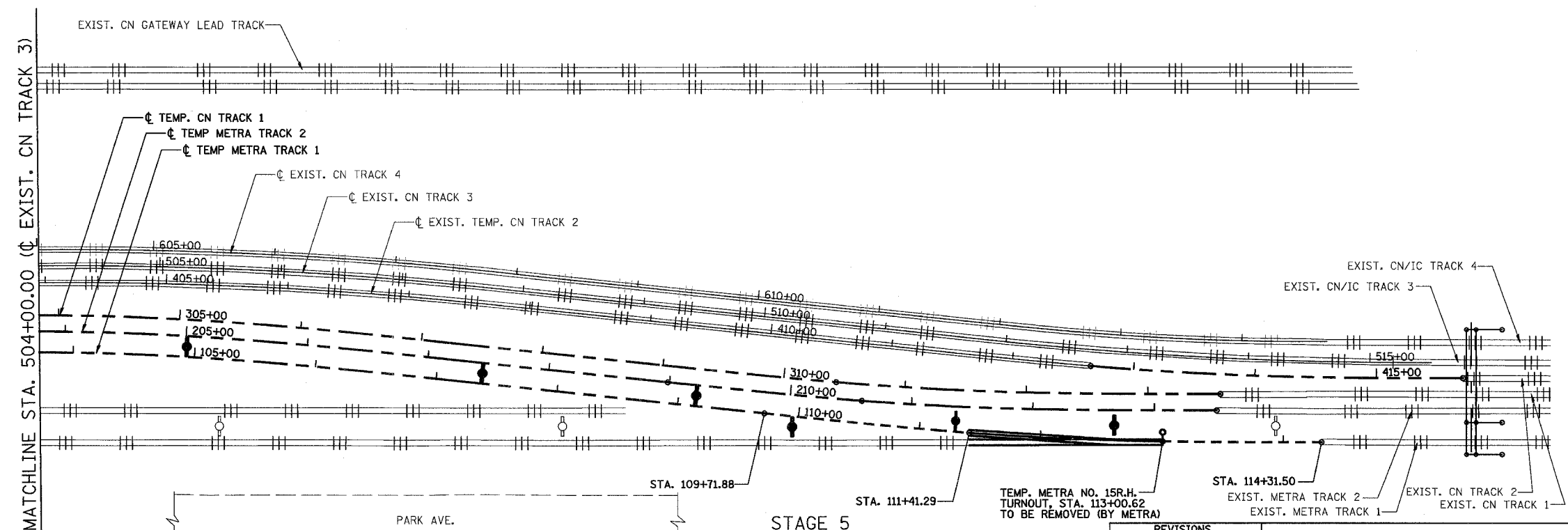
METRA TRACK 1  
 STA. 113+00.62, R.H. = 1 EA.  
 TOTAL = 1 EA.

**RAILROAD TRACK SHIFT (BY METRA)**

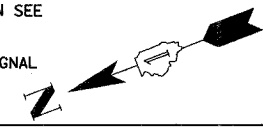
REALIGN EXIST. METRA TRACK 1  
 STA. 109+71.88 TO STA. 111+41.29  
 STA. 113+00.62 TO STA. 114+31.50

**RAILROAD TRACK (BY METRA)**

TEMP. METRA TRACK 1  
 STA. 111+41.29 TO STA. 113+00.62 = 159 TRK. FT.  
 TOTAL = 159 TRK. FT.



NOTES:  
 FOR STAGE 5 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 35.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.



REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 5 WORK (SOUTH)**

SHT. 34 OF 88  
 DATE 2/21/2008  
 DRAWN BY REZ  
 CHECKED BY RMS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	209
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

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SUGGESTED STAGE 5 TRACK CONSTRUCTION SEQUENCE

1. REMOVE TEMPORARY SWITCHES AND REINSTALL 159' TRACK PANELS; RE-ALIGN TEMPORARY METRA TRACK #1 (2 CONSECUTIVE SUNDAYS) METRA WILL HAVE TO REALIGN BOTH ENTIRE CURVES TO 55 MPH ALIGNMENTS - APPROX. 472' @ NORTH END AND 460' @ SOUTH END. (STA. 93+25.33 TO STA. 97+96.94 AND STA. 109+71.88 TO STA. 114+31.50) REMOVE PORTION OF EXISTING METRA TRACK #1 (STA. 98+59.77 TO STA. 104+86.77 (627')). (CAN BE DONE AS SOON AS DC DEPARTMENT RAIL ACCESS IS NO LONGER NEEDED JUST BEFORE OR CONCURRENT WITH REMOVAL OF TEMPORARY SWITCHES) (METRA)
2. REMOVE ELECTRIC LOCK & INSULATED JOINTS FOR METRA TRACK #1 (CONCURRENT WITH PREVIOUS STEP) (METRA)
3. BEGIN CONSTRUCTION OF METRA PORTION OF BRIDGE OVER 159TH ST & HIGHWAY CLOSURE UNDER BRIDGES (FALL '08)
4. CONSTRUCT FIRST STAGE OF BRIDGE SN 016-2755 (PORTION OF BRIDGE FOR METRA TRACKS #1 AND #2. CONSTRUCT BRIDGE SN 016-2819 BRIDGE FOR CN GATEWAY LEAD TRACK. CONSTRUCT BRIDGE SN 016-2822 BRIDGE FOR CN THOROUGHFARE TRACK. (ALSO BEGIN US 6 ROAD CLOSURE )"

NOTE:  
 DURATIONS NOTED ABOVE FOR WORK PERFORMED BY METRA AND THE CN ARE APPROXIMATE ONLY AND SUBJECT TO WEATHER CONDITIONS, AVAILABILITY OF RAILROAD STAFF, AND NUMEROUS OTHER FACTORS. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK AND PLANNED SCHEDULE WITH THE RAILROADS CONCERNING WORK TO BE PERFORMED BY THE RAILROADS. NO ADDITIONAL TIME WILL BE ALLOWED IN THE CONTRACTOR'S SCHEDULE FOR MEETING OF THE INTERIM COMPLETION DATES SPECIFIED FOR THIS PROJECT DUE TO VARIATIONS IN THESE APPROXIMATE DURATIONS.

SUMMARY OF QUANTITIES FOR SUGGESTED STAGE 5 TRACK CONSTRUCTION TASKS

ITEM	UNIT	CONTRACTOR PAY ITEM QUANTITY	QUANTITY BY RR FORCE ACCOUNT WORK BY RAILROADS (FOR REFERENCE ONLY)	
			METRA	CN
RAILROAD TRACK	TRK. FT.		318	
RAILROAD TRACK, REMOVE	TRK. FT.		319	
REMOVE NO. 15 TURNOUT	EACH		2	
RAILROAD TRACK SHIFT	EACH		4	

NOTES:  
 FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION OF CATENARY SUPPORT AND CATENARY DEAD END STRUCTURES SEE CATENARY STRUCTURES SHEETS.

FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF CONDUITS AND CABLES FOR RE-ROUTING OF METRA AC POWER AND FIBER OPTIC SCADA/COMMUNICATION SYSTEM, SEE METRA UTILITIES SHEETS.

FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF METRA SIGNAL SYSTEM, SEE METRA SIGNALS SHEETS.

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REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 STAGE 5 TASKS AND SEQUENCING

SHT. 35 OF 88 DRAWN BY REZ  
 DATE 2/21/2008 CHECKED BY RMS

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	210
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60E10				

**RAILROAD TRACK, REMOVE (BY CONTRACTOR)**

TEMP. CN THOROUGHFARE TRACK TO BE REMOVED  
 STA. 797+46.91 TO STA. 801+58.43 = 412 TRK. FT.  
 TEMP. CN GATEWAY LEAD TRACK TO BE REMOVED  
 STA. 693+97.44 TO STA. 701+91.51 = 794 TRK. FT.  
 TOTAL = 1206 TRK. FT.

**RAILROAD TRACK, REMOVE (BY CN)**

TEMP. CN GATEWAY LEAD TRACK TO BE REMOVED  
 STA. 703+01.52 TO STA. 703+61.78 = 60 TRK. FT.  
 STA. 703+01.52 TO STA. 703+61.78 = 60 TRK. FT.  
 TOTAL = 120 TRK. FT.

**RAILROAD TRACK (BY CN)**

EXIST. CN THOROUGHFARE TRACK  
 STA. 1299+11.15 TO 1299+75.41 = 64 TRK. FT.  
 TOTAL = 64 TRK. FT.

**RAILROAD TRACK (BY CONTRACTOR)**

EXIST. CN GATEWAY LEAD TRACK  
 STA. 1799+04.17 TO 1802+39.16 = 335 TRK. FT.  
 TOTAL = 335 TRK. FT.

**REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (BY CONTRACTOR)**

PERM. CN THOROUGHFARE TRACK  
 STA. 1299+11.15 TO 1300+86.41 = 200 CU. YD.  
 PERM. CN GATEWAY LEAD TRACK  
 STA. 1799+11.63 TO 1800+84.14 = 176 CU. YD.  
 PERM. METRA TRACK 1  
 STA. 896+62.74 TO 901+60.14 = 381 CU. YD.  
 PERM. METRA TRACK 2  
 STA. 1695+70.54 TO 1701+70.72 = 381 CU. YD.  
 TOTAL = 1138 CU. YD.

**RAILROAD TRACK SHIFT (BY CN)**

REALIGN PERM. CN THOROUGHFARE TRACK  
 STA. 1295+73.43 TO 1297+48.08  
 STA. 1300+57.24 TO 1301+58.84  
 REALIGN PERM. CN GATEWAY LEAD  
 STA. 1790+96.29 TO 1793+89.53  
 STA. 1803+49.29 TO 1804+16.36  
 STA. 1803+49.29 TO 1804+54.90

**RAILROAD TRACK SHIFT ASSIST (BY CONTRACTOR)**

1 EACH FOR ABOVE CN TRACK SHIFTS  
 TOTAL = 5 EA.

**NO. 10 TURNOUT (BY CN)**

CN THOROUGHFARE TRACK  
 STA. 1299+75.41, R.H.  
 STA. 1301+58.84, L.H.  
 = 1 EA.  
 = 1 EA.  
 TOTAL = 2 EA.

**RELOCATE NO. 10 TURNOUT (BY CN)**

CN GATEWAY LEAD TRACK  
 STA. 1802+38.99, R.H.  
 = 1 EA.  
 TOTAL = 1 EA.

**REMOVE NO. 10 TURNOUT (BY CN)**

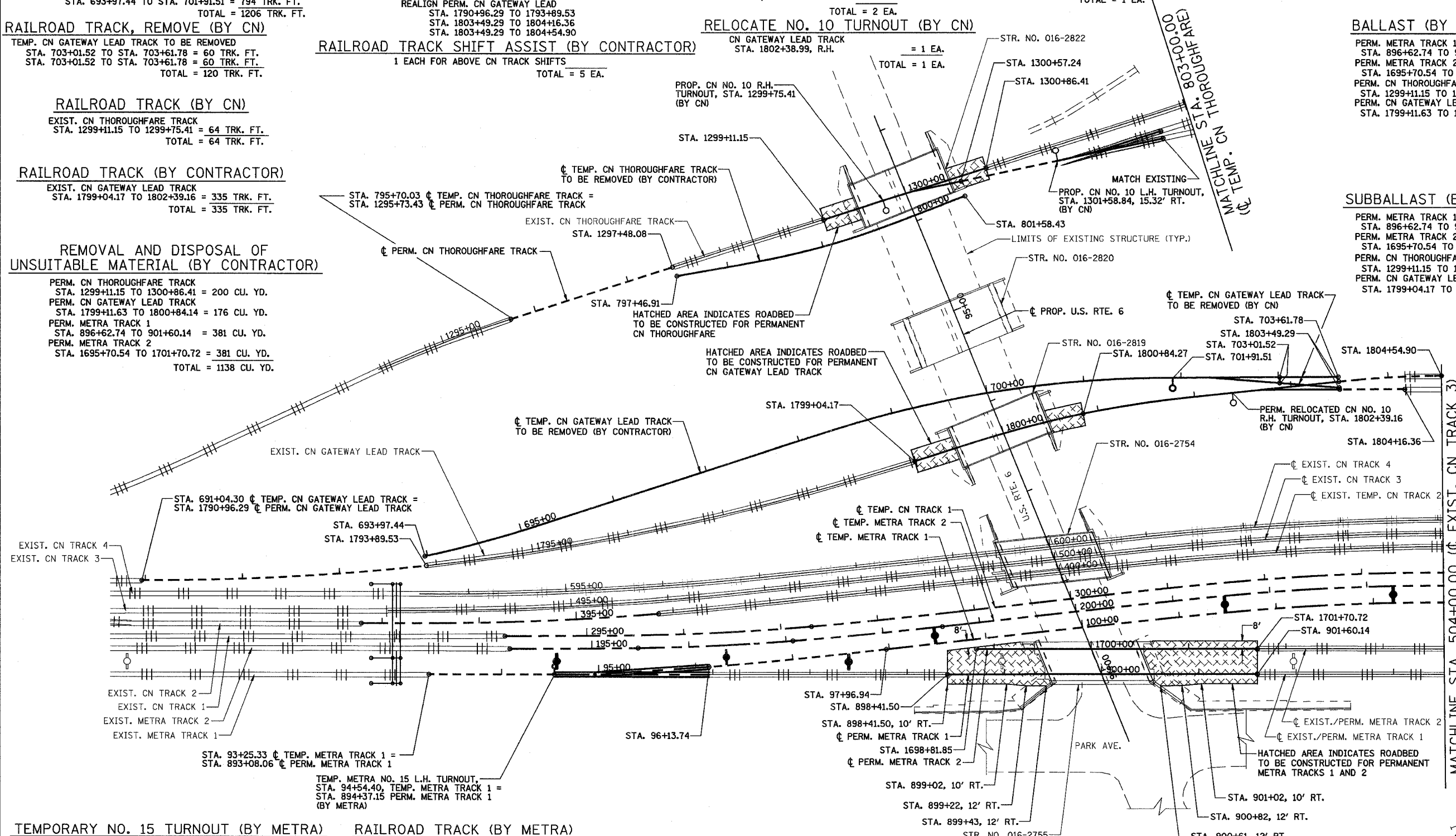
CN THOROUGHFARE TRACK  
 STA. 1301+58.84, R.H.  
 = 1 EA.  
 TOTAL = 1 EA.

**BALLAST (BY CONTRACTOR)**

PERM. METRA TRACK 1  
 STA. 896+62.74 TO 907+37.02 = 1035 TON  
 PERM. METRA TRACK 2  
 STA. 1695+70.54 TO 1707+50.36 = 1035 TON  
 PERM. CN THOROUGHFARE TRACK  
 STA. 1299+11.15 TO 1300+86.41 = 553 TON  
 PERM. CN GATEWAY LEAD TRACK  
 STA. 1799+11.63 TO 1800+84.14 = 516 TON  
 TOTAL = 3139 TON

**SUBBALLAST (BY CONTRACTOR)**

PERM. METRA TRACK 1  
 STA. 896+62.74 TO 901+60.14 = 484 TON  
 PERM. METRA TRACK 2  
 STA. 1695+70.54 TO 1701+70.72 = 483 TON  
 PERM. CN THOROUGHFARE TRACK  
 STA. 1299+11.15 TO 1300+86.41 = 135 TON  
 PERM. CN GATEWAY LEAD TRACK  
 STA. 1799+04.17 TO 1800+84.27 = 131 TON  
 TOTAL = 1233 TON



**TEMPORARY NO. 15 TURNOUT (BY METRA)**

METRA TRACK 1  
 STA. 94+54.40, L.H. = 1 EA.  
 TOTAL = 1 EA.

**RAILROAD TRACK, REMOVE (BY METRA)**

TEMP. METRA TRACK 1 TO BE REMOVED  
 STA. 94+54.40 TO STA. 96+13.74 = 159 TRK. FT.  
 TOTAL = 159 TRK. FT.

**RAILROAD TRACK (BY METRA)**

PERM. METRA TRACK 1  
 STA. 898+41.50 TO STA. 901+60.14 = 319 TRK. FT.  
 PERM. METRA TRACK 2  
 STA. 1698+81.85 TO STA. 1701+70.72 = 289 TRK. FT.  
 TOTAL = 608 TRK. FT.

**RAILROAD TRACK SHIFT (BY METRA)**

REALIGN TEMP. METRA TRACK 1  
 STA. 96+13.74 TO 97+96.94  
 REALIGN PERM. METRA TRACK 1  
 STA. 893+08.06 TO 894+37.15

**STAGE 6**

NOTES:  
 FOR STAGE 6 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 38.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

**STAGE 6 WORK SUMMARY**

CONSTRUCT PORTIONS OF METRA 1 AND 2, CN THOROUGHFARE, AND GATEWAY LEAD TRACKS  
 INSTALL METRA 1 TURNOUTS AND RECONSTRUCT PERMANENT METRA 1 CATENARY SYSTEM

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IUS RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PLAN OF STAGE 6 WORK (NORTH)

SHT. 36 OF 88  
 DATE 2/21/2008

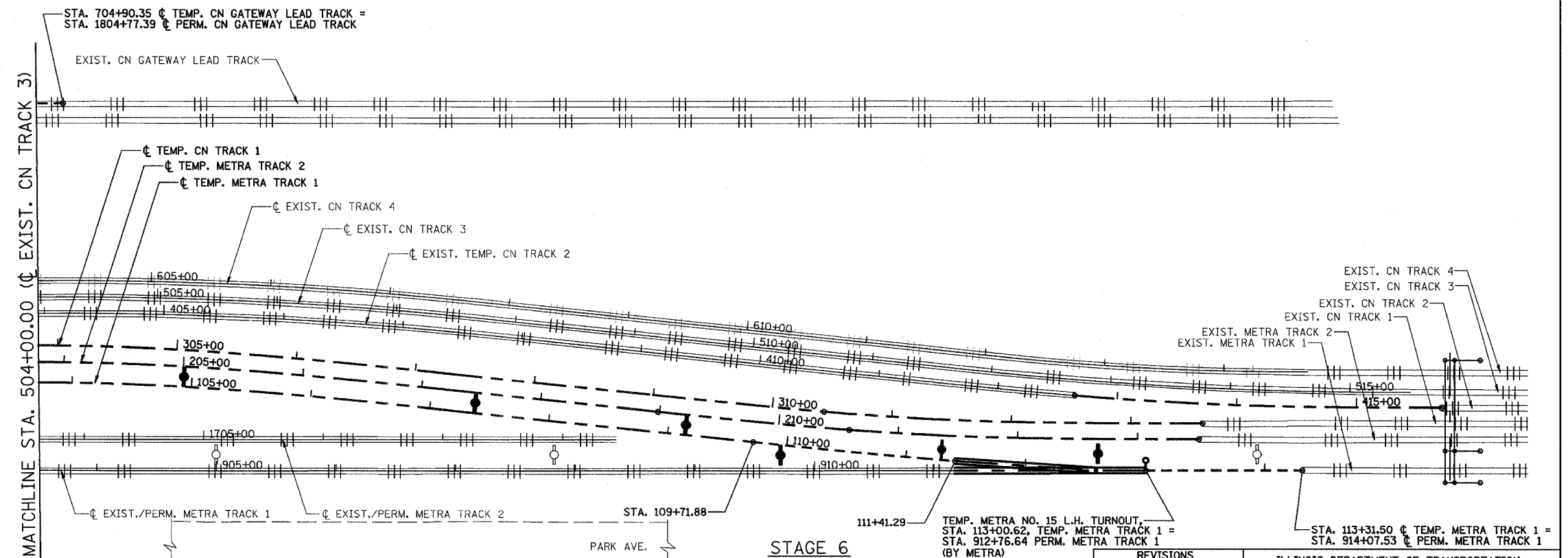
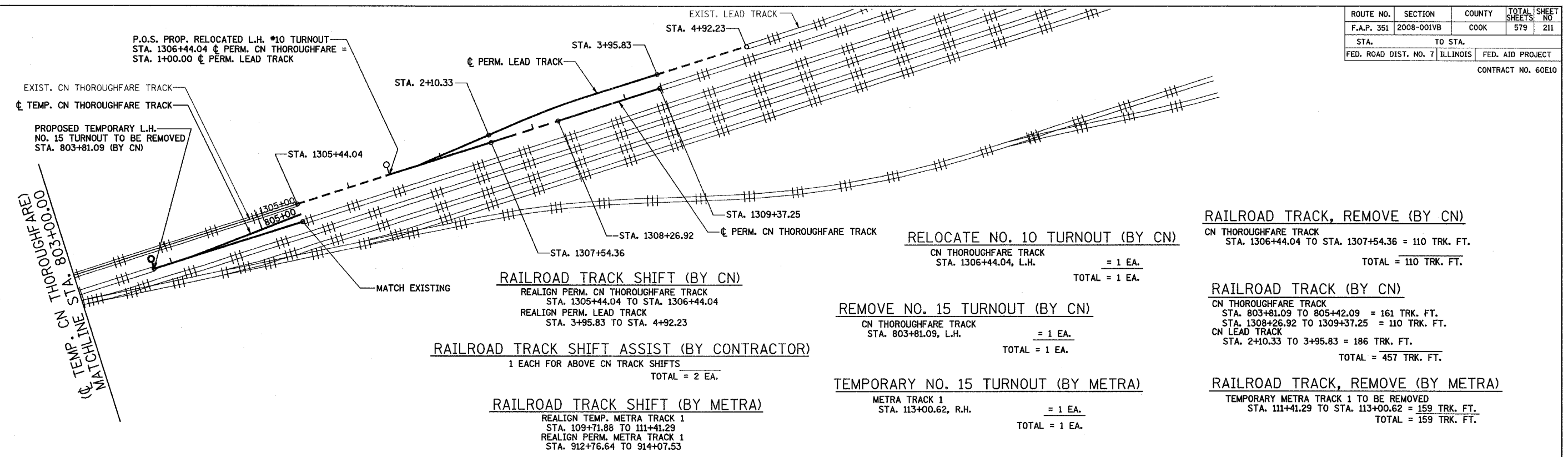
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	211
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

CONTRACT NO. 60E10

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**NOTES:**  
 FOR STAGE 6 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 38.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

**STAGE 6**

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 6 WORK (SOUTH)**

SHT. 37 OF 88  
 DATE 2/21/2008

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 CHECKED BY RMS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	212
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

**SUGGESTED STAGE 6 TRACK CONSTRUCTION SEQUENCE**

1. BEGIN MOVING METRA TRACKS #1 & #2 BACK (NEED TO WAIT FOR END OF COLD-WEATHER SEASON - ASSUME MID-MARCH TO EARLY APRIL)
2. CONSTRUCT NEW RAILROAD TRACK FOR PERMANENT CN GATEWAY LEAD TRACK ACROSS SN 016-2819 (CONTRACTOR) CONSTRUCT NEW RAILROAD TRACK & INSTALL NO. 10 TURNOUTS FOR PERMANENT CN THOROUGHFARE ACROSS SN 016-2822. (CN)
3. CUT AND THROW TEMP. CN GATEWAY LEAD TRACK BACK TO ORIGINAL ALIGNMENT (STA. 691+59.19 AND STA. 704+30.00, REPLACE NO. 10 TURNOUT TO ORIGINAL LOCATION) AND PLACE TRACK IN SERVICE. CUT AND THROW TEMP. CN THOROUGHFARE BACK TO ORIGINAL ALIGNMENT (STA. 795+70.16, STA. 801+58.54 AND STA. 808+25.75, REPLACE NO. 10 TURNOUT TO ORIGINAL LOCATION FOR LEAD TRACK STA. 1306+44.04) AND PLACE TRACK IN SERVICE. (CN)
4. REMOVE RAILROAD TRACK FROM TEMPORARY DIVERSION OF CN GATEWAY LEAD TRACK (CONTRACTOR).
5. REMOVE RAILROAD TRACK FROM TEMPORARY DIVERSION OF CN THOROUGHFARE MAIN TRACK (CONTRACTOR) RELOCATE TEMPORARY NO. 10 TURNOUT TO ORIGINAL LOCATION, STA. 1306+44.04. REMOVE NO. 15 TURNOUT, STA. 803+81.09 (CN).
6. CONSTRUCT NEW TRACK FOR PERMANENT METRA TRACK #1 & #2 ACROSS SN 016-2755 (627' OF METRA TRACK #1 FROM STA. 898+41.50 TO STA. 904+68.04, 963' OF METRA TRACK #2 FROM STA. 1698+81.85 TO STA 1708+44.46 (METRA - APPROXIMATELY 4 DAYS).
7. INSTALL TURNOUTS FOR PERMANENT METRA TRACK #1 CATENARY CONSTRUCTION AND PROVIDE RUNOFF FOR 200 FEET NORTH AND SOUTH OF BRIDGE FOR 12" RAISE IN TOP OF RAIL AT BRIDGE (BEFORE DC WIRE IS REPLACED). RE-ALIGN RUN-AROUND TRACK #1 FROM 55 MPH ALIGNMENTS TO TURNOUT ALIGNMENT (472' @ NORTH END AND 460' @ SOUTH END). TAKE OUT 165' PANELS, INSTALL TURNOUT PANELS, SURFACE AND CONNECT TO EXISTING TRACK #1 (2 CONSECUTIVE SUNDAYS) (METRA)
8. INSTALL ELECTRIC LOCK ON METRA TRACK #1 WITH RUN-AROUND NORMAL & INSULATED JOINTS ON MAINLINE (CONCURRENT WITH PREVIOUS STEP) (METRA)
9. INSTALL FIBER OPTIC CABLE ON NEW CATENARY STRUCTURES (1 DAY). CUT OVER FIBER OPTIC CABLE (1 DAY). FIBER MUST BE CUT OVER ON A SATURDAY. (METRA)
10. FURNISH & INSTALL JUNCTION BOXES AT CAT. STR. #2 FOR PERMANENT REROUTING OF 2400V & 4160V AC POWER LINES UNDERGROUND AROUND SIGNAL SUPPORT STRUCTURE
11. INSTALL SERVICE DROPS TO JUNCTION BOXES AT CAT. STRUCTURE 20.51 and NEW CATENARY STRUCTURE #2 FOR PERMANENT UNDERGROUND RE-ROUTING OF AC 2400V & 4160V LINES AROUND NEW OVERHEAD BRIDGE STRUCTURE 20.56 (CONTRACTOR)
12. PROVIDE PERMANENT DEAD END GUYS FOR NEW CATENARY #2 FOR PERMANENT UNDERGROUND RELOCATION OF AC 2400V & 4160V LINES AROUND SUPPORT STRUCTURE (METRA)
13. INSTALL OVERHEAD AC 2400V & 4160V LINES ON NEW CATENARY STRUCTURES BETWEEN CAT. STR. #2 & CAT. STR. 20.97 ( APPROXIMATELY 12 DAYS). (METRA)
14. INSTALL UNDERGROUND AC 2400V & 4160V LINES BETWEEN CAT. STR. #1 AND CAT. STR. #2 (CONCURRENT WITH PREVIOUS STEP) (METRA)
15. CUT OVER AC POWER BETWEEN CAT. STR. 20.51 & CAT. STR. 20.97 (METRA).
16. REMOVE OR PLUG BURIED CONDUIT & HANDHOLES FOR TEMPORARY RE-ROUTING OF AC AND FIBER OPTIC LINES - CAN BE DONE CONCURRENT WITH FOLLOWING STEP (CONTRACTOR).
17. CONSTRUCT PERMANENT CATENARY SERVICE FOR METRA TRACK #1 (APPROXIMATELY 2 WEEKS STRAIGHT TIME) & PLACE IN SERVICE (CUT OVER DC ON ONE SUNDAY AT BOTH ENDS (APPROXIMATELY 10 WEEK DAYS, (APPROXIMATELY 15 TOTAL DAYS INCLUDING WEEKENDS) (METRA).
18. MOVE ELECTRIC LOCK ON METRA TRACK #1 WITH MAINLINE NORMAL & MOVE INSULATED JOINTS TO RUN-AROUND (CONCURRENT WITH PREVIOUS STEP) (METRA)
19. REMOVE TEMPORARY DIVERSION TRACK #1 CATENARY WIRES (BY METRA ON THE MONDAY FOLLOWING CATENARY SERVICE CONSTRUCTION FOR TRACK #1)
20. WAIT TIME AFTER COMPLETION OF PREV. STEP UNTIL WHEN NEXT STEP CAN BEGIN ON FOLLOWING SUNDAY (TUES - SAT)

NOTE:  
DURATIONS NOTED ABOVE FOR WORK PERFORMED BY METRA AND THE CN ARE APPROXIMATE ONLY AND SUBJECT TO WEATHER CONDITIONS, AVAILABILITY OF RAILROAD STAFF, AND NUMEROUS OTHER FACTORS. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK AND PLANNED SCHEDULE WITH THE RAILROADS CONCERNING WORK TO BE PERFORMED BY THE RAILROADS. NO ADDITIONAL TIME WILL BE ALLOWED IN THE CONTRACTOR'S SCHEDULE FOR MEETING OF THE INTERIM COMPLETION DATES SPECIFIED FOR THIS PROJECT DUE TO VARIATIONS IN THESE APPROXIMATE DURATIONS.

**SUMMARY OF QUANTITIES FOR SUGGESTED STAGE 6 TRACK CONSTRUCTION TASKS**

ITEM	UNIT	CONTRACTOR PAY ITEM QUANTITY	QUANTITY BY RR FORCE ACCOUNT WORK BY RAILROADS (FOR REFERENCE ONLY)	
			METRA	CN
RAILROAD TRACK	TRK. FT.	335	608	521
BALLAST	TON	3139		
SUBBALLAST	TON	1233		
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	1138		
RAILROAD TRACK SHIFT ASSIST	EACH	7		
RAILROAD TRACK, REMOVE	TRK. FT.	1206	318	230
INSTALL TEMPORARY NO. 15 TURNOUT	EACH		2	
RELOCATE NO. 10 TURNOUT	EACH			2
RAILROAD TRACK SHIFT	EACH		4	7
REMOVE NO. 15 TURNOUT	EACH			1
REMOVE NO. 10 TURNOUT	EACH			1
INSTALL NO. 10 TURNOUT	EACH			2

NOTES:  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION OF CATENARY SUPPORT AND CATENARY DEAD END STRUCTURES SEE CATENARY STRUCTURES SHEETS.  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF CONDUITS AND CABLES FOR RE-ROUTING OF METRA AC POWER AND FIBER OPTIC SCADA/COMMUNICATION SYSTEM, SEE METRA UTILITIES SHEETS.  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF METRA SIGNAL SYSTEM, SEE METRA SIGNALS SHEETS.

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
STAGE 6 TASKS AND SEQUENCING**

SHT. 38 OF 88  
DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	213
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

**RAILROAD TRACK, REMOVE (BY METRA)**  
 TEMP. METRA TRACK 1 TO BE REMOVED  
 STA. 96+13.74 TO STA. 99+03.00 = 289 TRK. FT.  
 TEMP. METRA TRACK 2 TO BE REMOVED  
 STA. 195+47.84 TO STA. 197+07.18 = 159 TRK. FT.  
 TOTAL = 448 TRK. FT.

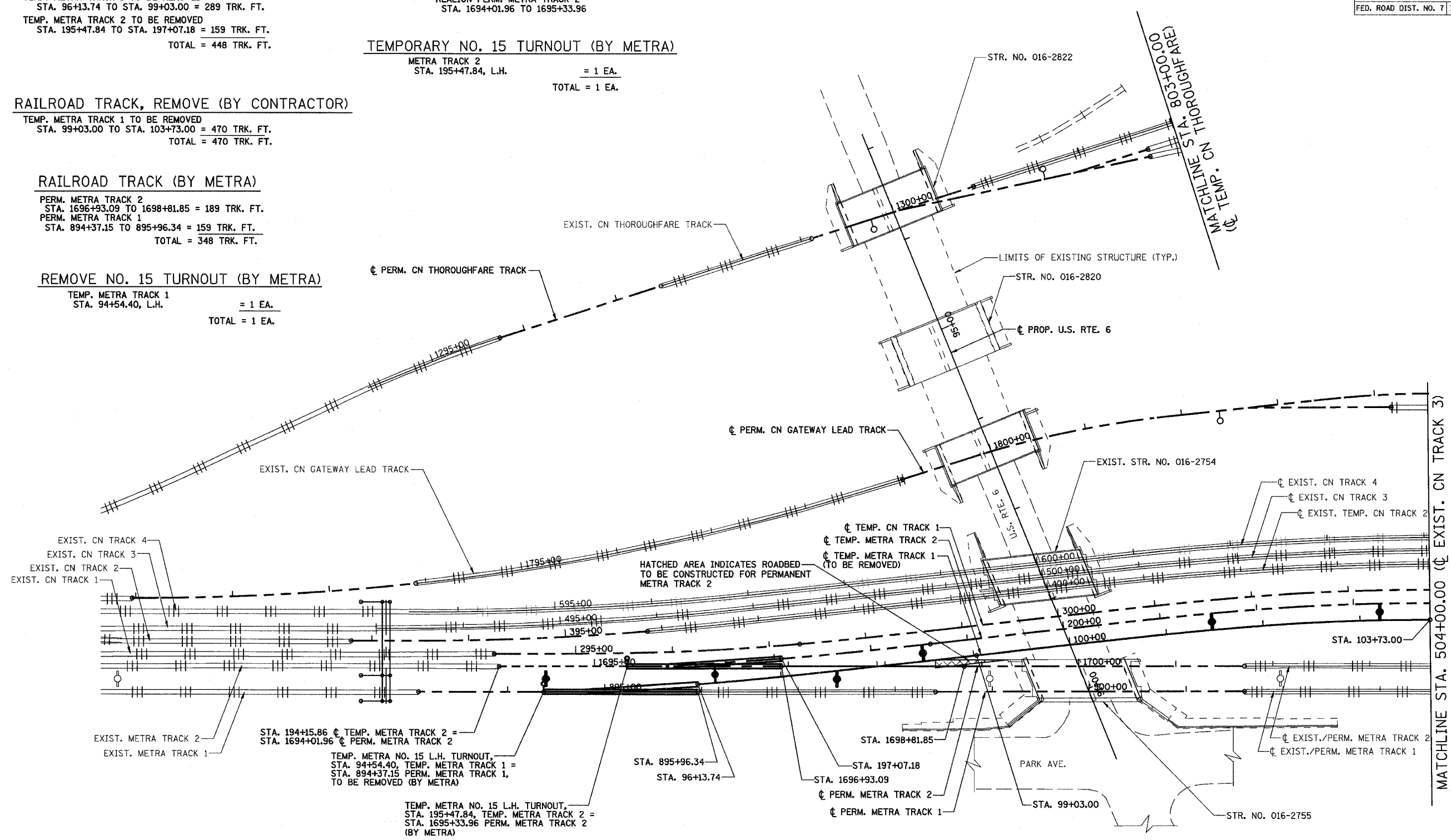
**RAILROAD TRACK SHIFT (BY METRA)**  
 REALIGN PERM. METRA TRACK 2  
 STA. 1694+01.96 TO 1695+33.96

**TEMPORARY NO. 15 TURNOUT (BY METRA)**  
 METRA TRACK 2  
 STA. 195+47.84, L.H. = 1 EA.  
 TOTAL = 1 EA.

**RAILROAD TRACK, REMOVE (BY CONTRACTOR)**  
 TEMP. METRA TRACK 1 TO BE REMOVED  
 STA. 99+03.00 TO STA. 103+73.00 = 470 TRK. FT.  
 TOTAL = 470 TRK. FT.

**RAILROAD TRACK (BY METRA)**  
 PERM. METRA TRACK 2  
 STA. 1696+93.09 TO 1698+81.85 = 189 TRK. FT.  
 PERM. METRA TRACK 1  
 STA. 894+37.15 TO 895+96.34 = 159 TRK. FT.  
 TOTAL = 348 TRK. FT.

**REMOVE NO. 15 TURNOUT (BY METRA)**  
 TEMP. METRA TRACK 1  
 STA. 94+54.40, L.H. = 1 EA.  
 TOTAL = 1 EA.



**STAGE 7**

NOTES:  
 FOR STAGE 7 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 41.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

STAGE 7 WORK SUMMARY	
REMOVE TURNOUTS AND RUNAROUND FOR METRA 1	
CONSTRUCT PORTIONS OF METRA 2	
INSTALL TURNOUTS AND RECONSTRUCT PERMANENT METRA 2 CATENARY SYSTEM	

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PLAN OF STAGE 7 WORK (NORTH)

SHT. 39 OF 88  
 DATE 2/21/2008

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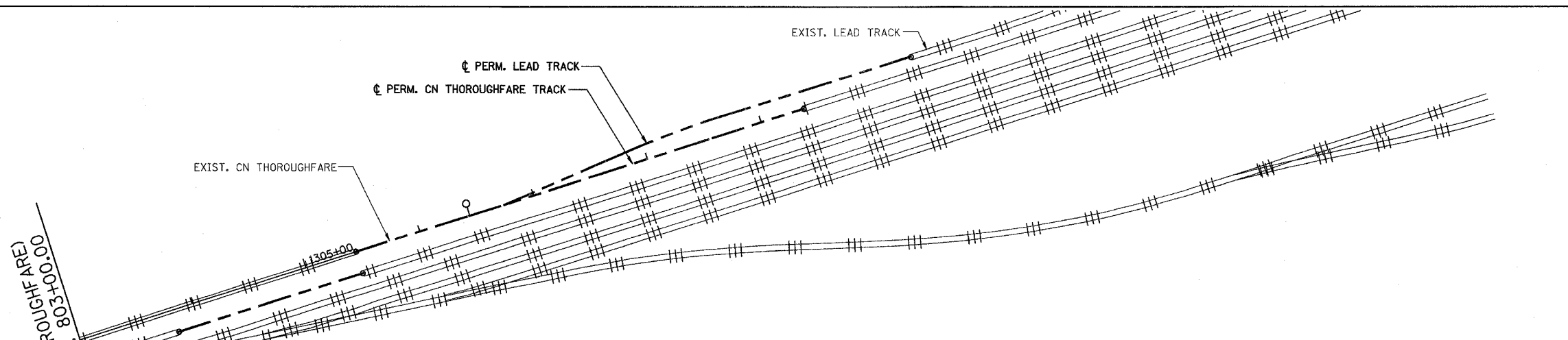
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	214
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

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**RAILROAD TRACK, REMOVE (BY METRA)**  
 TEMP. METRA TRACK 1 TO BE REMOVED  
 STA. 108+69.00 TO 111+41.29 = 272 TRK. FT.  
 TEMP. METRA TRACK 2 TO BE REMOVED  
 STA. 210+59.02 TO 212+18.38 = 159 TRK. FT.  
 TOTAL = 431 TRK. FT.

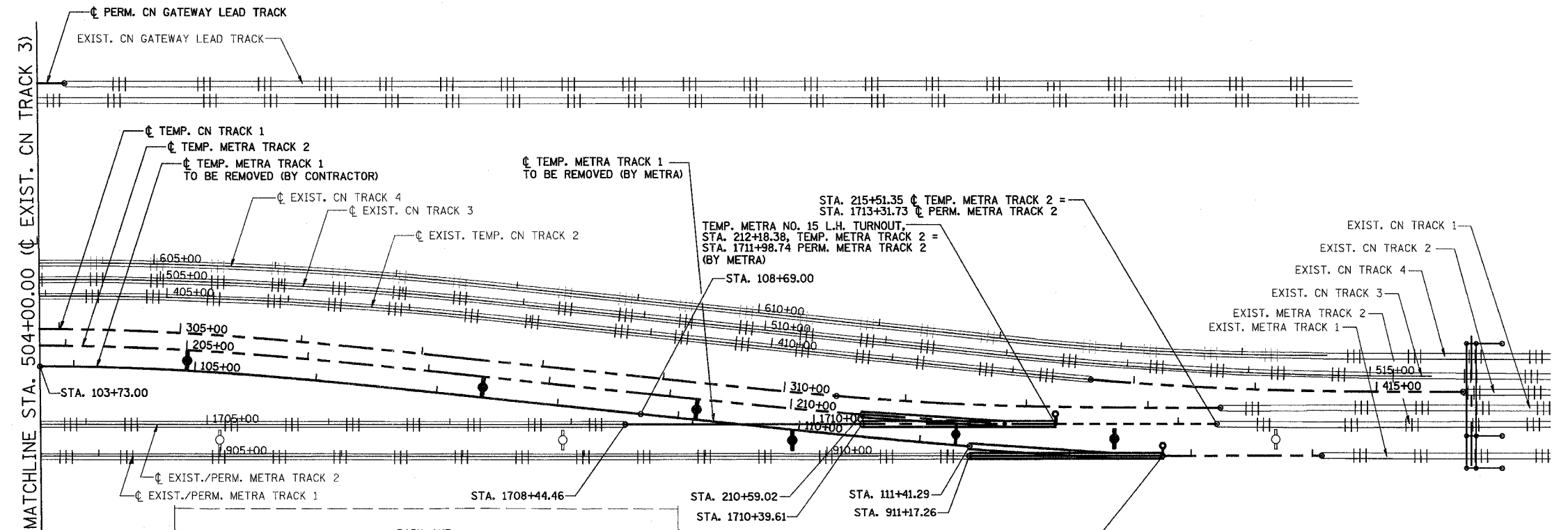
**RAILROAD TRACK SHIFT (BY METRA)**  
 REALIGN PERM. METRA TRACK 2  
 STA. 1711+98.74 TO 1713+31.73

**RAILROAD TRACK (BY METRA)**  
 PERM. METRA TRACK 2  
 STA. 1708+44.46 TO 1710+39.61 = 196 TRK. FT.  
 PERM. METRA TRACK 1  
 STA. 911+17.26 TO 912+76.64 = 160 TRK. FT.  
 TOTAL = 356 TRK. FT.

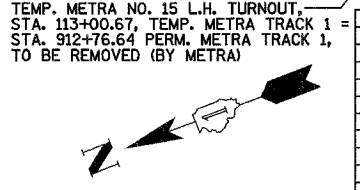
**RAILROAD TRACK, REMOVE (BY CONTRACTOR)**  
 TEMP. METRA TRACK 1 TO BE REMOVED  
 STA. 103+73.00 TO STA. 108+69.00 TO = 496 TRK. FT.  
 TOTAL = 496 TRK. FT.

**TEMPORARY NO. 15 TURNOUT (BY METRA)**  
 METRA TRACK 2  
 STA. 212+18.38, L.H. = 1 EA.  
 TOTAL = 1 EA.

**REMOVE NO. 15 TURNOUT (BY METRA)**  
 METRA TRACK 1  
 STA. 113+00.67, L.H. = 1 EA.  
 TOTAL = 1 EA.



**NOTES:**  
**STAGE 7**  
 FOR STAGE 7 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 41.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.



REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 7 WORK (SOUTH)**

SHT. 40 OF 88  
 DATE 2/21/2008

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 CHECKED BY RMS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	215
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

**SUGGESTED STAGE 7 TRACK CONSTRUCTION SEQUENCE**

1. REMOVE TURNOUTS FOR METRA TRACK #1, INSERT TRACK PANELS, & SURFACE TRACK (TWO CONSECUTIVE SUNDAYS) REMOVE TRACK FOR TEMPORARY METRA #1, (BETWEEN THE 2 SUNDAYS) (STA. 96+13.74 TO STA. 111+41.29) METRA WILL REMOVE 289' OF RUNAROUND TRACK #1 AT THE N. END & 272' AT THE S. END BECAUSE IT IS ON METRA'S R/W. CONTRACTOR TO REMOVE REMAINDER OF RUNAROUND TRACK #1) (METRA AND CONTRACTOR).
2. REMOVE ELECTRIC LOCK & INSULATED JOINTS FOR METRA TRACK #1 (CONCURRENT WITH PREVIOUS STEP) (METRA)
3. CONSTRUCT NEW TRACK FOR PERMANENT METRA TRACK #2. (STA. 1696+93.09 TO STA. 1698+81.85 AND STA. 1708+44.46 TO STA. 1710+39.61) PROVIDE RUNOFF FOR 200 FEET NORTH & SOUTH OF BRIDGE FOR 12" RAISE IN TOP OF RAIL AT BRIDGE (BEFORE DC WIRE IS REPLACED) (APPROXIMATELY 5 DAYS). (METRA)
4. INSTALL PERMANENT SIGNAL CABLE FROM FROM SIGNAL CASE NORTH OF 159TH ST BRIDGE TO SIGNAL CASE SOUTH OF BRIDGE INCLUDING PORTION IN TWO 4-INCH RGS CONDUITS EMBEDDED IN WEST PARPAPET OF BRIDGE OVER 159TH ST. (METRA)
5. INSTALL TURNOUTS FOR CATENARY CONSTRUCTION & RE-ALIGN RUNAROUND TRACK #2 FROM 55 MPH ALIGNMENTS TO TURNOUT ALIGNMENTS (472' @ N END & 460' @ S END) TAKE OUT 165' PANELS, INSTALL TURNOUT PANELS, SURFACE & CONNECT TO EXISTING METRA TRACK #2 (2 CONSECUTIVE SUNDAYS) (METRA).
6. INSTALL ELECTRIC LOCK ON METRA TRACK #2 WITH RUN-AROUND NORMAL & INSULATED JOINTS ON MAINLINE (CONCURRENT WITH PREVIOUS STEP) (METRA)
7. CONSTRUCT PERMANENT CATENARY SERVICE AND PLACE PERMANENT METRA TRACK #2 IN SERVICE. (CUT OVER DC ON ONE SUNDAY AT BOTH ENDS.) (APPROXIMATELY 10 WEEKDAY WORKDAYS, APPROXIMATELY 15 TOTAL DAYS OF EFFORT INCLUDING WEEKENDS). (METRA)."
8. MOVE ELECTRIC LOCK ON METRA TRACK #2 WITH MAINLINE NORMAL & MOVE INSULATED JOINTS TO RUN-AROUND (CONCURRENT WITH PREVIOUS STEP) (METRA)
9. REMOVE TEMPORARY DIVERSION TRACK #2 CATENARY WIRES (BY METRA ON THE MONDAY FOLLOWING CATENARY SERVICE CONSTRUCTION FOR TRACK #2)
10. WAIT TIME (WED-SAT) AFTER COMPLETION OF PREV. STEP UNTL NEXT SUNDAY (WHEN NEXT STEP CAN BEGIN) (TUES-SAT)

**NOTE:**  
DURATIONS NOTED ABOVE FOR WORK PERFORMED BY METRA AND THE CN ARE APPROXIMATE ONLY AND SUBJECT TO WEATHER CONDITIONS, AVAILABILITY OF RAILROAD STAFF, AND NUMEROUS OTHER FACTORS. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK AND PLANNED SCHEDULE WITH THE RAILROADS CONCERNING WORK TO BE PERFORMED BY THE RAILROADS. NO ADDITIONAL TIME WILL BE ALLOWED IN THE CONTRACTOR'S SCHEDULE FOR MEETING OF THE INTERIM COMPLETION DATES SPECIFIED FOR THIS PROJECT DUE TO VARIATIONS IN THESE APPROXIMATE DURATIONS.

**SUMMARY OF QUANTITIES FOR SUGGESTED STAGE 7 TRACK CONSTRUCTION TASKS**

ITEM	UNIT	CONTRACTOR PAY ITEM QUANTITY	QUANTITY BY RR FORCE ACCOUNT WORK BY RAILROADS (FOR REFERENCE ONLY)	
			METRA	CN
RAILROAD TRACK	TRK. FT.		704	
RAILROAD TRACK, REMOVE	TRK. FT.	966	879	
INSTALL TEMPORARY NO. 15 TURNOUT	EACH		2	
RAILROAD TRACK SHIFT	EACH		2	
REMOVE NO. 15 TURNOUT	EACH		2	

**NOTES:**  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION OF CATENARY SUPPORT AND CATENARY DEAD END STRUCTURES SEE CATENARY STRUCTURES SHEETS.  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF CONDUITS AND CABLES FOR RE-ROUTING OF METRA AC POWER AND FIBER OPTIC SCADA/COMMUNICATION SYSTEM, SEE METRA UTILITIES SHEETS.  
FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF METRA SIGNAL SYSTEM, SEE METRA SIGNALS SHEETS.

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(WEEKS, 4DAYS)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 6 FROM I-294 TO IL RTE 1 METRA & CN OVER 159TH STREET
NAME	DATE	
REZ	10/19/07	

**TRACK CONSTRUCTION  
STAGE 7 TASKS AND SEQUENCING**

SHT. 41 OF 88      DRAWN BY REZ  
DATE 2/21/2008      CHECKED BY RMS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	216
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 60E10				

**RAILROAD TRACK, REMOVE (BY CONTRACTOR)**

TEMP. METRA TRACK 2 TO BE REMOVED  
 STA. 197+07.18 TO STA. 203+79.00 = 672 TRK. FT.  
 TOTAL = 672 TRK. FT.

**RAILROAD TRACK (BY METRA)**

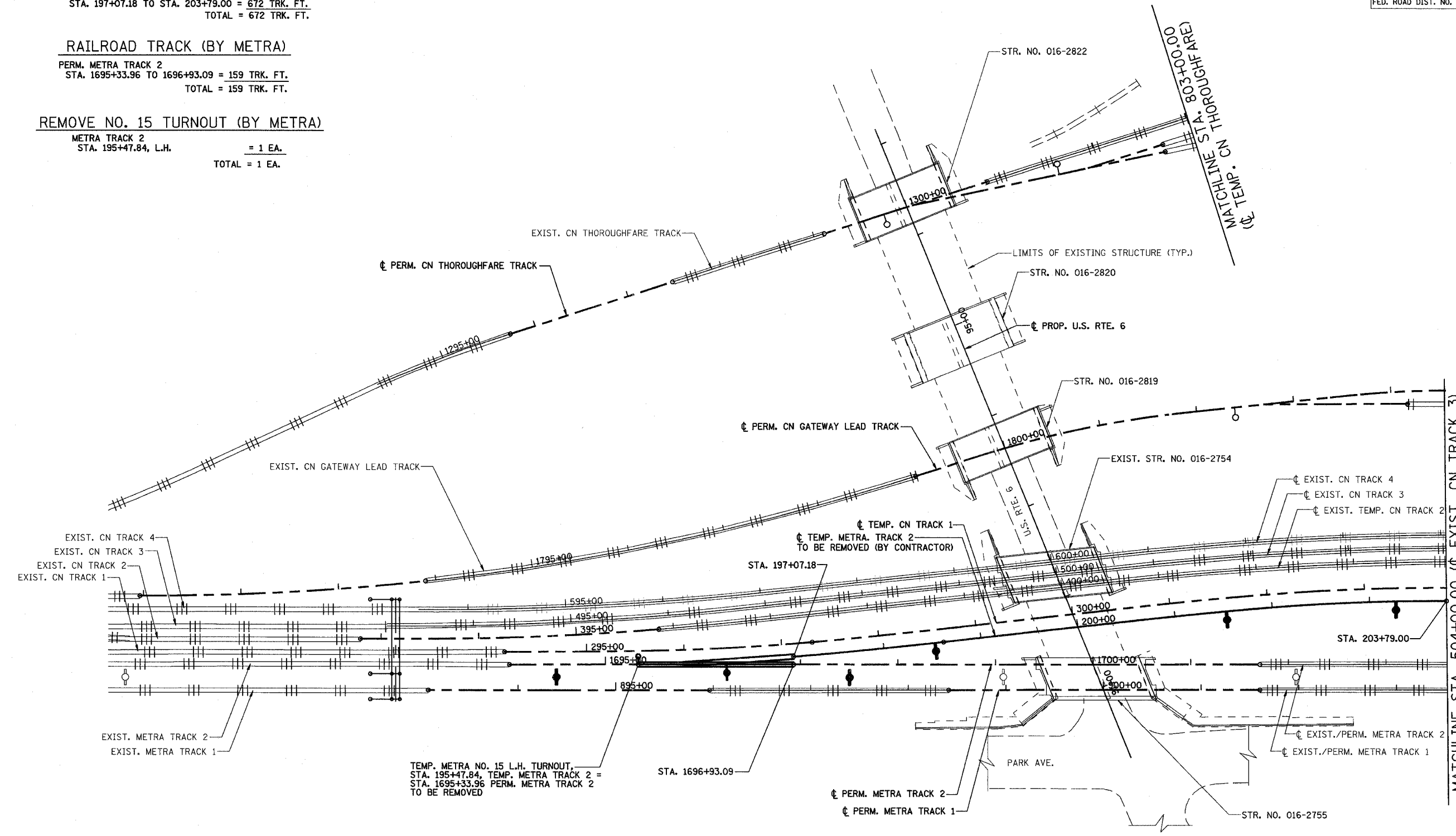
PERM. METRA TRACK 2  
 STA. 1695+33.96 TO 1696+93.09 = 159 TRK. FT.  
 TOTAL = 159 TRK. FT.

**REMOVE NO. 15 TURNOUT (BY METRA)**

METRA TRACK 2  
 STA. 195+47.84, L.H. = 1 EA.  
 TOTAL = 1 EA.

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**STAGE 8**

NOTES:  
 FOR STAGE 8 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 44.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

**STAGE 8 WORK SUMMARY**

REMOVE TURNOUTS AND RUNAROUND FOR METRA 2  
 CONSTRUCT CN 2-TRACK PORTION OF BRIDGE

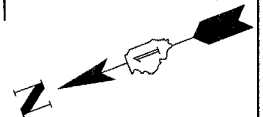
REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 8 WORK (NORTH)**

SHT. 42 OF 88  
 DATE 2/21/2008

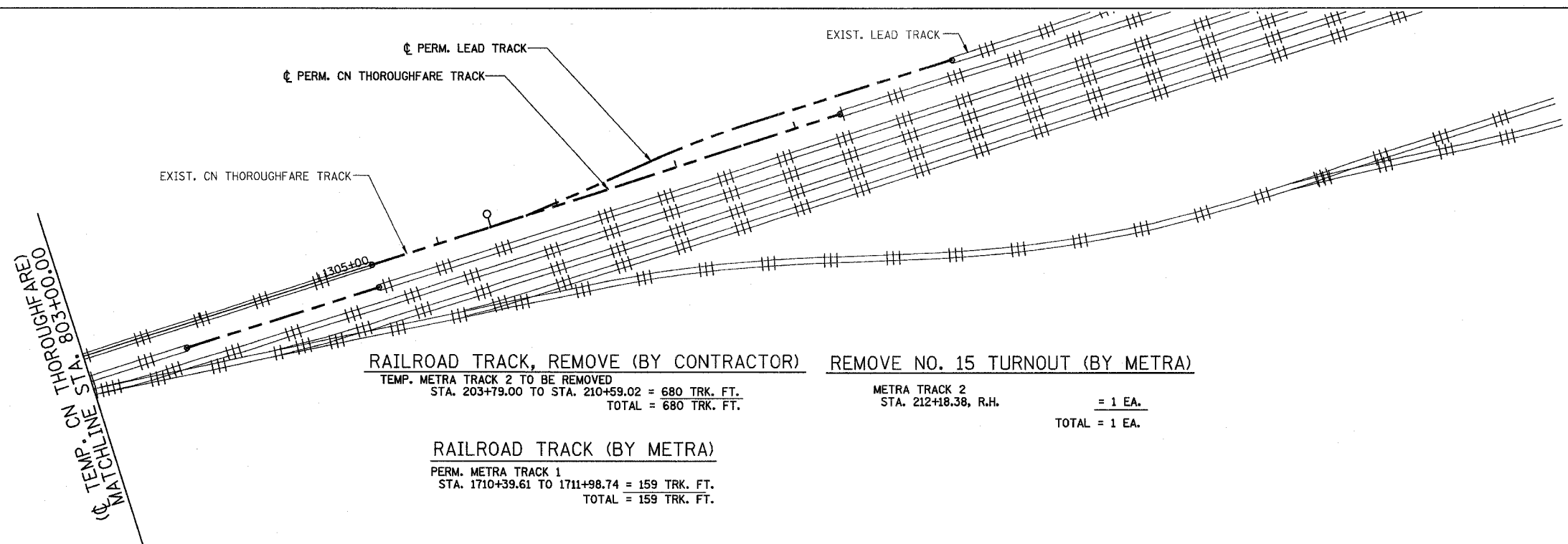
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 CHECKED BY RMS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	217
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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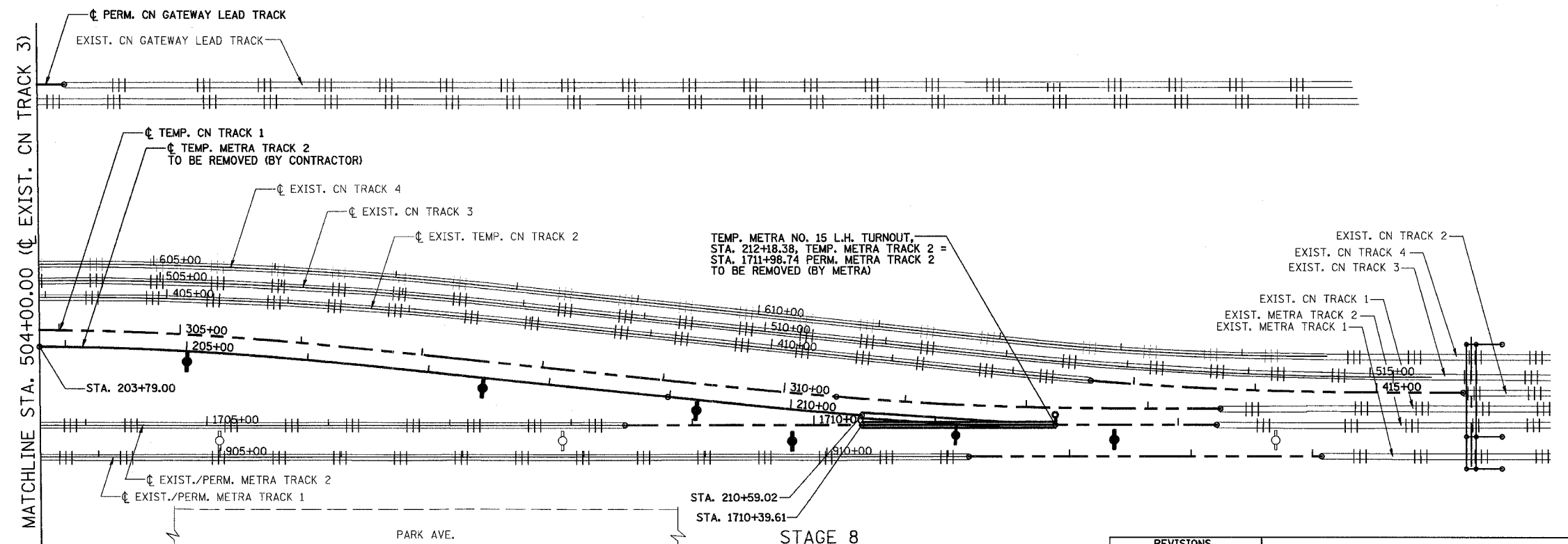
**RAILROAD TRACK, REMOVE (BY CONTRACTOR) REMOVE NO. 15 TURNOUT (BY METRA)**

TEMP. METRA TRACK 2 TO BE REMOVED  
 STA. 203+79.00 TO STA. 210+59.02 = 680 TRK. FT.  
 TOTAL = 680 TRK. FT.

METRA TRACK 2  
 STA. 212+18.38, R.H. = 1 EA.  
 TOTAL = 1 EA.

**RAILROAD TRACK (BY METRA)**

PERM. METRA TRACK 1  
 STA. 1710+39.61 TO 1711+98.74 = 159 TRK. FT.  
 TOTAL = 159 TRK. FT.



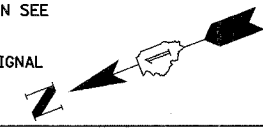
**NOTES:**  
 FOR STAGE 8 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 44.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 8 WORK (SOUTH)**

SHT. 43 OF 88  
 DATE 2/21/2008  
 DRAWN BY REZ  
 CHECKED BY RMS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	218
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

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**SUGGESTED STAGE 8 TRACK CONSTRUCTION SEQUENCE**

1. REMOVE TURNOUTS FOR METRA TRACK #2, INSERT PANELS, & SURFACE TRACK (TWO CONSECUTIVE SUNDAYS) (METRA). REMOVE TRACK FOR TEMPORARY METRA #2 (BETWEEN THE 2 SUNDAYS) (STA. 197+07.18 TO STA. 210+59.02) (CONTRACTOR).
2. BEGIN CONSTRUCTION OF CN PORTION OF MAINLINE BRIDGE OVER 159TH ST. (LATE SPRING / EARLY SUMMER 2009)
3. CONSTRUCT SECOND STAGE OF BRIDGE SN 016-2755 FOR CN TRACKS #1 & #2 (WORK PERFORMED IN-BETWEEN METRA AND CN MAINLINE TRACKS) (CONTRACTOR).
4. REMOVE TEMPORARY CATENARY SUPPORT STRUCTURES #3, #4, #5, #6, #7, #8, #9 & #10 (CONTRACTOR). (CONCURRENT WITH PREVIOUS STEP)
5. REMOVE CATENARY DEAD END STRUCTURE AT STA. 215+71.00 SPANNING ACROSS METRA TRACKS #1 & #2 AND CN TRACKS #1, #2, #3, & #4 (CONTRACTOR).

NOTE:  
 DURATIONS NOTED ABOVE FOR WORK PERFORMED BY METRA AND THE CN ARE APPROXIMATE ONLY AND SUBJECT TO WEATHER CONDITIONS, AVAILABILITY OF RAILROAD STAFF, AND NUMEROUS OTHER FACTORS. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK AND PLANNED SCHEDULE WITH THE RAILROADS CONCERNING WORK TO BE PERFORMED BY THE RAILROADS. NO ADDITIONAL TIME WILL BE ALLOWED IN THE CONTRACTOR'S SCHEDULE FOR MEETING OF THE INTERIM COMPLETION DATES SPECIFIED FOR THIS PROJECT DUE TO VARIATIONS IN THESE APPROXIMATE DURATIONS.

**SUMMARY OF QUANTITIES FOR SUGGESTED STAGE 8 TRACK CONSTRUCTION TASKS**

ITEM	UNIT	CONTRACTOR PAY ITEM QUANTITY	QUANTITY BY RR FORCE ACCOUNT WORK BY RAILROADS (FOR REFERENCE ONLY)	
			METRA	CN
RAILROAD TRACK	TRK. FT.		318	
RAILROAD TRACK, REMOVE	TRK. FT.	1352		
REMOVE NO. 15 TURNOUT	EACH		2	

NOTES:  
 FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION OF CATENARY SUPPORT AND CATENARY DEAD END STRUCTURES SEE CATENARY STRUCTURES SHEETS.  
 FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF CONDUITS AND CABLES FOR RE-ROUTING OF METRA AC POWER AND FIBER OPTIC SCADA/COMMUNICATION SYSTEM, SEE METRA UTILITIES SHEETS.  
 FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF METRA SIGNAL SYSTEM, SEE METRA SIGNALS SHEETS.

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 STAGE 8 TASKS AND SEQUENCING**

SHT. 44 OF 88  
 DATE 2/21/2008

DRAWN BY REZ  
 CHECKED BY RMS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	219
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 60E10				

**RAILROAD TRACK, REMOVE (BY CONTRACTOR)**

TEMP. CN TRACK 1 TO BE REMOVED  
 STA. 297+31.57 TO STA. 301+00.00 = 368 TRK. FT.  
 TOTAL = 368 TRK. FT.

**RAILROAD TRACK SHIFT (BY CN)**

REALIGN PERM. CN TRACK 1  
 STA. 994+02.12 TO STA. 997+17.41  
 REALIGN PERM. CN TRACK 2  
 STA. 1092+59.66 TO STA. 1095+65.59

**RELOCATE TEMPORARY CN TRACK NO 1 (BY CONTRACTOR)**

TEMP. CN TRACK 1 TO BE RELOCATED TO PERM. CN TRACK 2 LOCATION  
 STA. 301+00.00 TO STA. 303+83.98 = 284 TRK. FT.  
 TOTAL = 284 TRK. FT.

**RAILROAD TRACK SHIFT ASSIST (BY CONTRACTOR)**

1 EACH FOR ABOVE CN TRACK SHIFTS  
 TOTAL = 2 EACH

**BALLAST (BY CONTRACTOR)**

PERM. CN TRACK 1  
 STA. 995+74.61 TO 1007+57.17 = 1035 TON  
 PERM. CN TRACK 2  
 STA. 1095+78.64 TO 1107+63.99 = 1035 TON  
 TOTAL = 2070 TON

**RAILROAD TRACK (BY CONTRACTOR)**

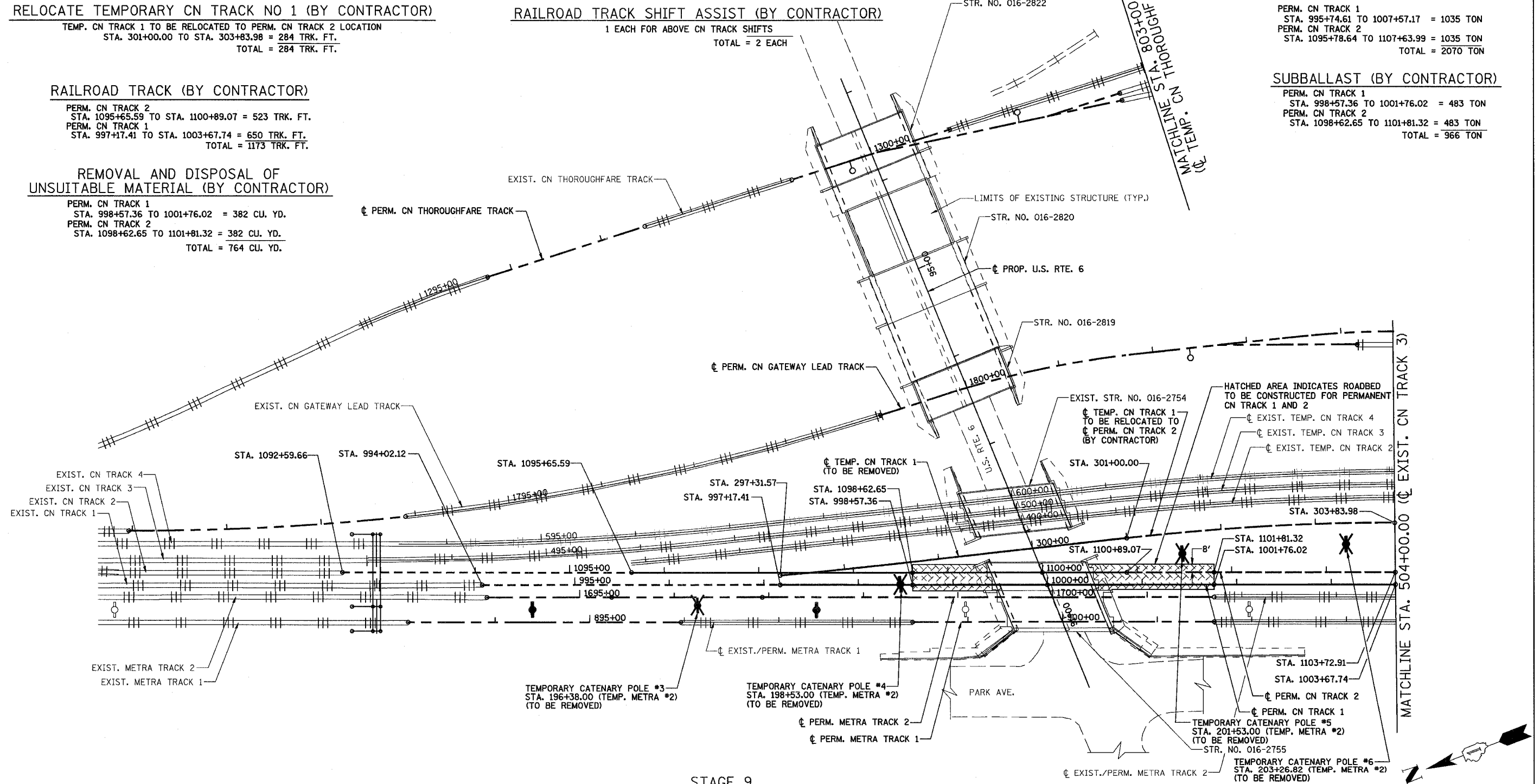
PERM. CN TRACK 2  
 STA. 1095+65.59 TO STA. 1100+89.07 = 523 TRK. FT.  
 PERM. CN TRACK 1  
 STA. 997+17.41 TO STA. 1003+67.74 = 650 TRK. FT.  
 TOTAL = 1173 TRK. FT.

**SUBBALLAST (BY CONTRACTOR)**

PERM. CN TRACK 1  
 STA. 998+57.36 TO 1001+76.02 = 483 TON  
 PERM. CN TRACK 2  
 STA. 1098+62.65 TO 1101+81.32 = 483 TON  
 TOTAL = 966 TON

**REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (BY CONTRACTOR)**

PERM. CN TRACK 1  
 STA. 998+57.36 TO 1001+76.02 = 382 CU. YD.  
 PERM. CN TRACK 2  
 STA. 1098+62.65 TO 1101+81.32 = 382 CU. YD.  
 TOTAL = 764 CU. YD.



**STAGE 9**

NOTES:  
 FOR STAGE 9 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 47.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

**STAGE 9 WORK SUMMARY**

- REMOVE TEMPORARY CATENARY STRUCTURES
- RECONSTRUCT AND SHIFT BACK CN TRACKS 1 AND 2
- CONSTRUCT EAST WINGWALLS OF BRIDGE

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PLAN OF STAGE 9 WORK (NORTH)

SHT. 45 OF 88  
 DATE 2/21/2008

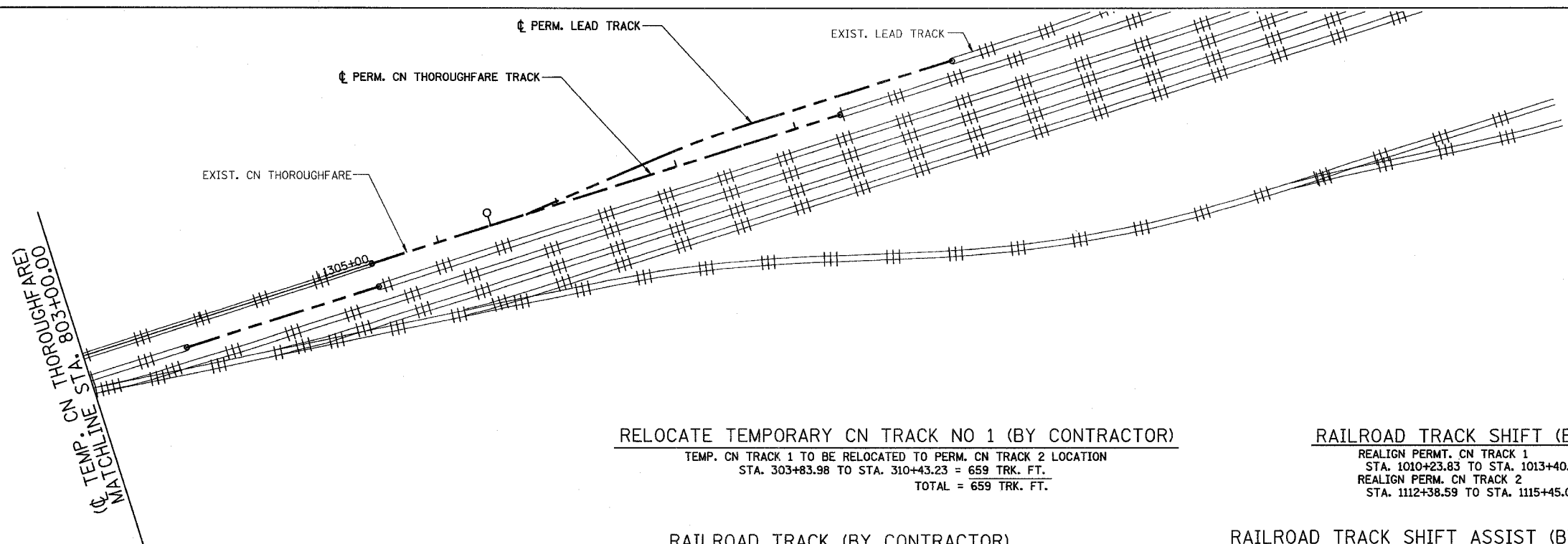
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	220
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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**RELOCATE TEMPORARY CN TRACK NO 1 (BY CONTRACTOR)**

TEMP. CN TRACK 1 TO BE RELOCATED TO PERM. CN TRACK 2 LOCATION  
 STA. 303+83.98 TO STA. 310+43.23 = 659 TRK. FT.  
 TOTAL = 659 TRK. FT.

**RAILROAD TRACK SHIFT (BY CN)**

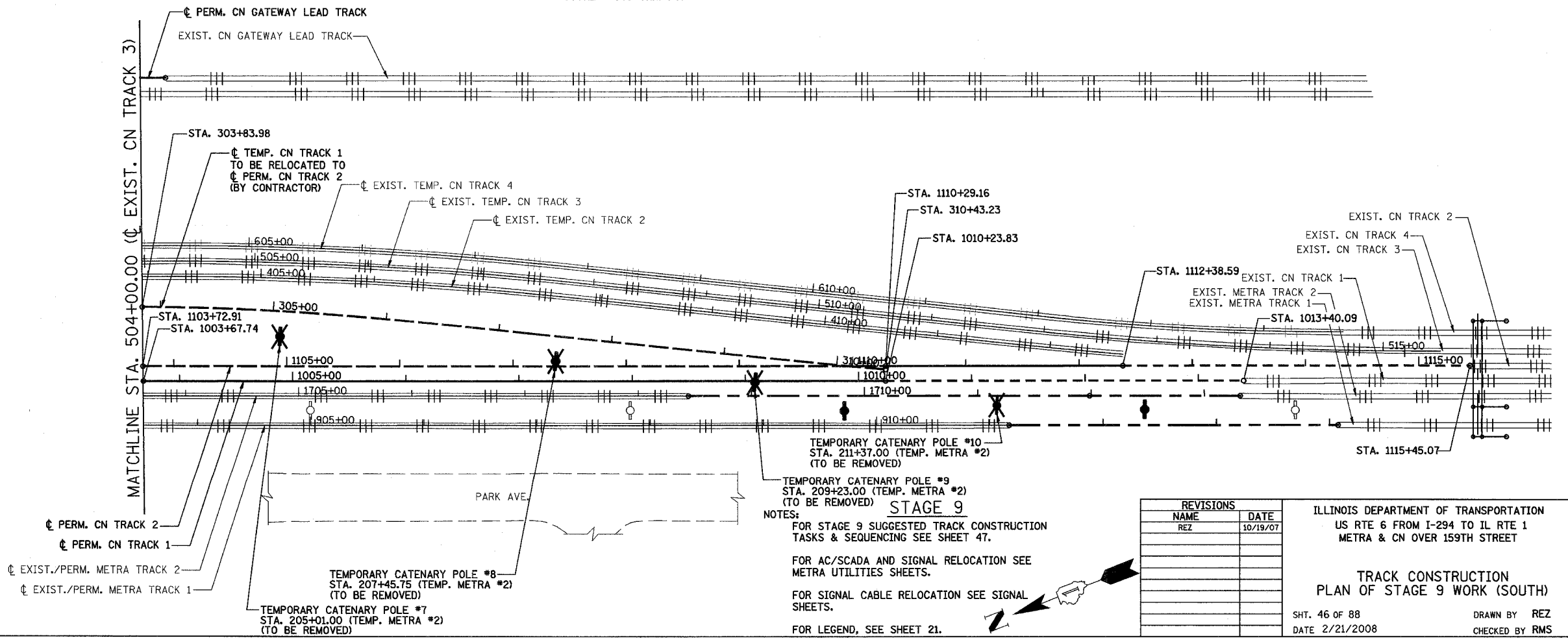
REALIGN PERMT. CN TRACK 1  
 STA. 1010+23.83 TO STA. 1013+40.09  
 REALIGN PERM. CN TRACK 2  
 STA. 1112+38.59 TO STA. 1115+45.07

**RAILROAD TRACK (BY CONTRACTOR)**

PERM. CN TRACK 2  
 STA. 1110+29.16 TO STA. 1112+38.59 = 209 TRK. FT.  
 PERM. CN TRACK 1  
 STA. 1003+67.74 TO STA. 1010+23.83 = 656 TRK. FT.  
 TOTAL = 865 TRK. FT.

**RAILROAD TRACK SHIFT ASSIST (BY CONTRACTOR)**

1 EACH FOR ABOVE CN TRACK SHIFTS  
 TOTAL = 2 EACH



**NOTES:**  
 FOR STAGE 9 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 47.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 9 WORK (SOUTH)**

SHT. 46 OF 88  
 DATE 2/21/2008

DRAWN BY REZ  
 CHECKED BY RMS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	221
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

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**SUGGESTED STAGE 9 TRACK CONSTRUCTION SEQUENCE**

1. CONSTRUCT PERMANENT CN TRACK #1 (CONTRACTOR).
2. CUT & THROW CN #1 FROM TEMPORARY DIVERSION TO PERMANENT ALIGNMENT (CN).
3. CONSTRUCT PERMANENT CN TRACK #2 USING PORTIONS FROM TEMPORARY DIVERSION OF CN TRACK #1 (CONTRACTOR).
4. CUT & THROW CN #2 FROM TEMPORARY DIVERSION TO PERMANENT ALIGNMENT (CN).
5. BEGIN CONSTRUCTION OF PORTION OF STORM SEWER MAIN TRUNK LINE UNDER BRIDGES AND BUILD UNDERPASS ROADWAY (CONTRACTOR)
6. REMOVE BALANCE OF EXISTING MAINLINE BRIDGE AND CONSTRUCT FULL HEIGHT WALLS BETWEEN NEW BRIDGE & PREVIOUSLY CONSTRUCTED ADVANCE CONTRACT BRIDGE

NOTE:  
 DURATIONS NOTED ABOVE FOR WORK PERFORMED BY METRA AND THE CN ARE APPROXIMATE ONLY AND SUBJECT TO WEATHER CONDITIONS, AVAILABILITY OF RAILROAD STAFF, AND NUMEROUS OTHER FACTORS. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK AND PLANNED SCHEDULE WITH THE RAILROADS CONCERNING WORK TO BE PERFORMED BY THE RAILROADS. NO ADDITIONAL TIME WILL BE ALLOWED IN THE CONTRACTOR'S SCHEDULE FOR MEETING OF THE INTERIM COMPLETION DATES SPECIFIED FOR THIS PROJECT DUE TO VARIATIONS IN THESE APPROXIMATE DURATIONS.

**SUMMARY OF QUANTITIES FOR SUGGESTED STAGE 9 TRACK CONSTRUCTION TASKS**

ITEM	UNIT	CONTRACTOR PAY ITEM QUANTITY	QUANTITY BY RR FORCE ACCOUNT WORK BY RAILROADS (FOR REFERENCE ONLY)	
			METRA	CN
RAILROAD TRACK	TRK. FT.	2038		
RAILROAD TRACK SHIFT ASSIST	EACH	4		
RAILROAD TRACK, REMOVE	TRK. FT.	368		
RELOCATE TEMPORARY CN TRACK NO 1	TRK. FT.	943		
RAILROAD TRACK SHIFT	EACH			4
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	764		
BALLAST	TON	2070		
SUBBALLAST	TON	966		

NOTES:  
 FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION OF CATENARY SUPPORT AND CATENARY DEAD END STRUCTURES SEE CATENARY STRUCTURES SHEETS.

FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF CONDUITS AND CABLES FOR RE-ROUTING OF METRA AC POWER AND FIBER OPTIC SCADA/COMMUNICATION SYSTEM, SEE METRA UTILITIES SHEETS.

FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF METRA SIGNAL SYSTEM, SEE METRA SIGNALS SHEETS.

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 STAGE 9 TASKS AND SEQUENCING**

SHT. 47 OF 88  
 DATE 2/21/2008  
 DRAWN BY REZ  
 CHECKED BY RMS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	222
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60E10				

**RAILROAD TRACK, REMOVE (BY CONTRACTOR)**

EXIST. CN TRACK 4 TO BE REMOVED  
 STA. 596+80.47 TO STA. 604+05.20 = 725 TRK. FT.  
 TOTAL = 725 TRK. FT.

**RAILROAD TRACK SHIFT (BY CN)**

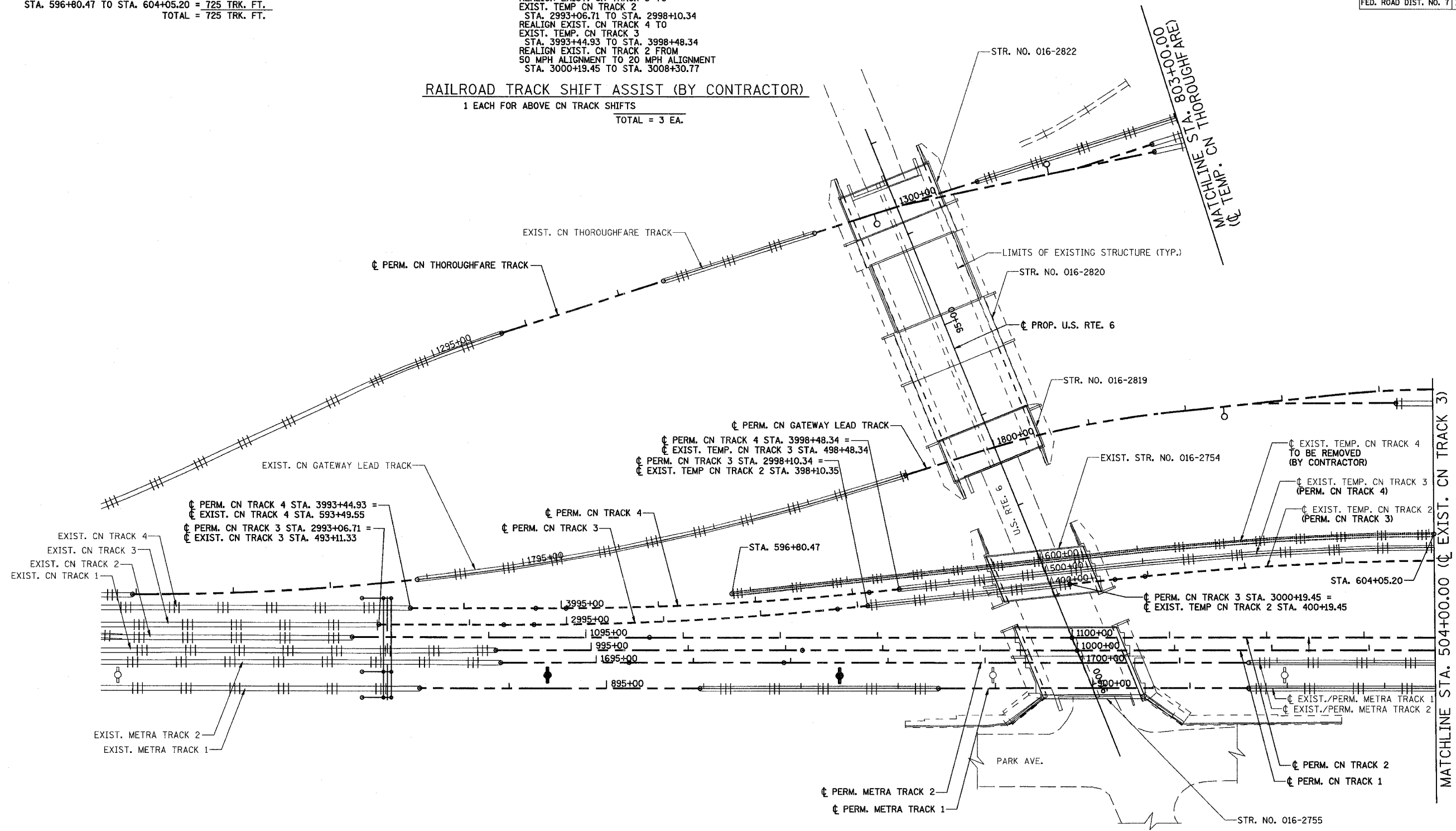
REALIGN EXIST. CN TRACK 3 TO  
 EXIST. TEMP CN TRACK 2  
 STA. 2993+06.71 TO STA. 2998+10.34  
 REALIGN EXIST. CN TRACK 4 TO  
 EXIST. TEMP. CN TRACK 3  
 STA. 3993+44.93 TO STA. 3998+48.34  
 REALIGN EXIST. CN TRACK 2 FROM  
 50 MPH ALIGNMENT TO 20 MPH ALIGNMENT  
 STA. 3000+19.45 TO STA. 3008+30.77

**RAILROAD TRACK SHIFT ASSIST (BY CONTRACTOR)**

1 EACH FOR ABOVE CN TRACK SHIFTS  
 TOTAL = 3 EA.

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**STAGE 10**

**NOTES:**  
 FOR STAGE 10 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 50.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

**STAGE 10 WORK SUMMARY**

CUT AND THROW EXIST. CN TRACK 3 OVER TO EXIST. CN TRACK 2  
 CUT AND THROW EXIST. CN TRACK 4 OVER TO EXIST. CN TRACK 3  
 LINE AND SURFACE NEW CN TRACK 3 AND 4 TO 20 MPH

REVISIONS	
NAME	DATE
REZ	10/19/07

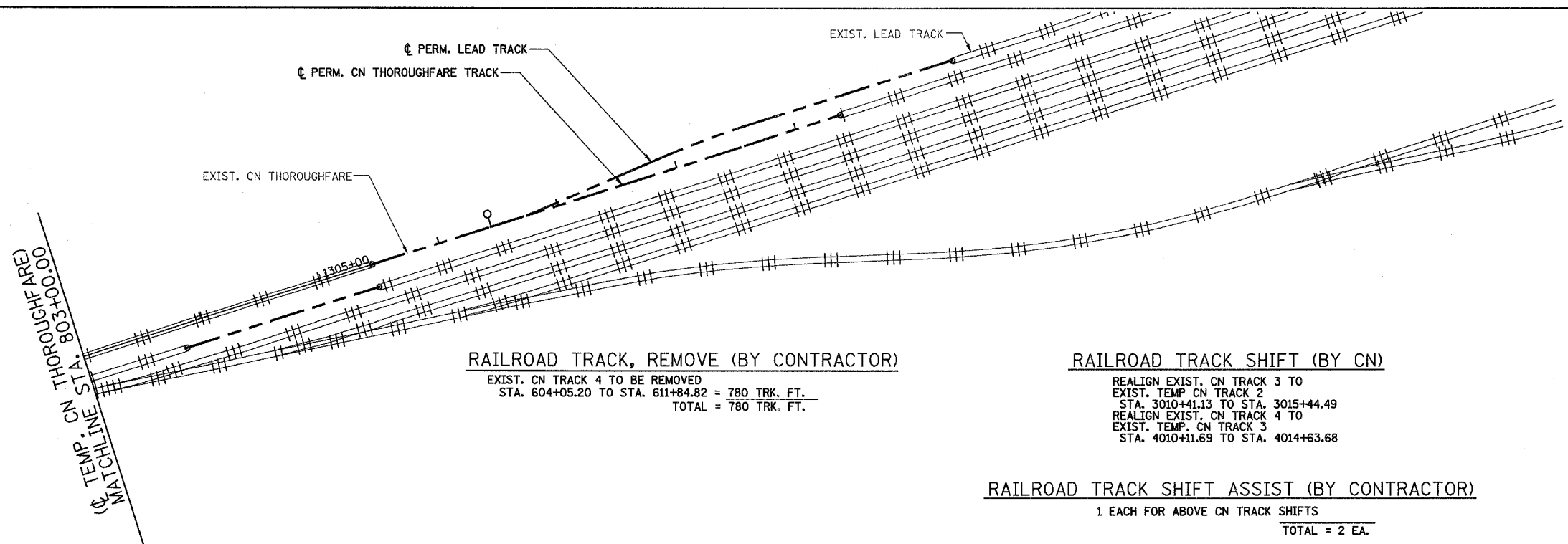
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET  
 TRACK CONSTRUCTION  
 PLAN OF STAGE 10 WORK (NORTH)  
 SHT. 48 OF 88  
 DATE 2/21/2008  
 DRAWN BY REZ  
 CHECKED BY RMS

MATCHLINE STA. 504+00.00 (EXIST. CN TRACK 3)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	223
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 60E10				

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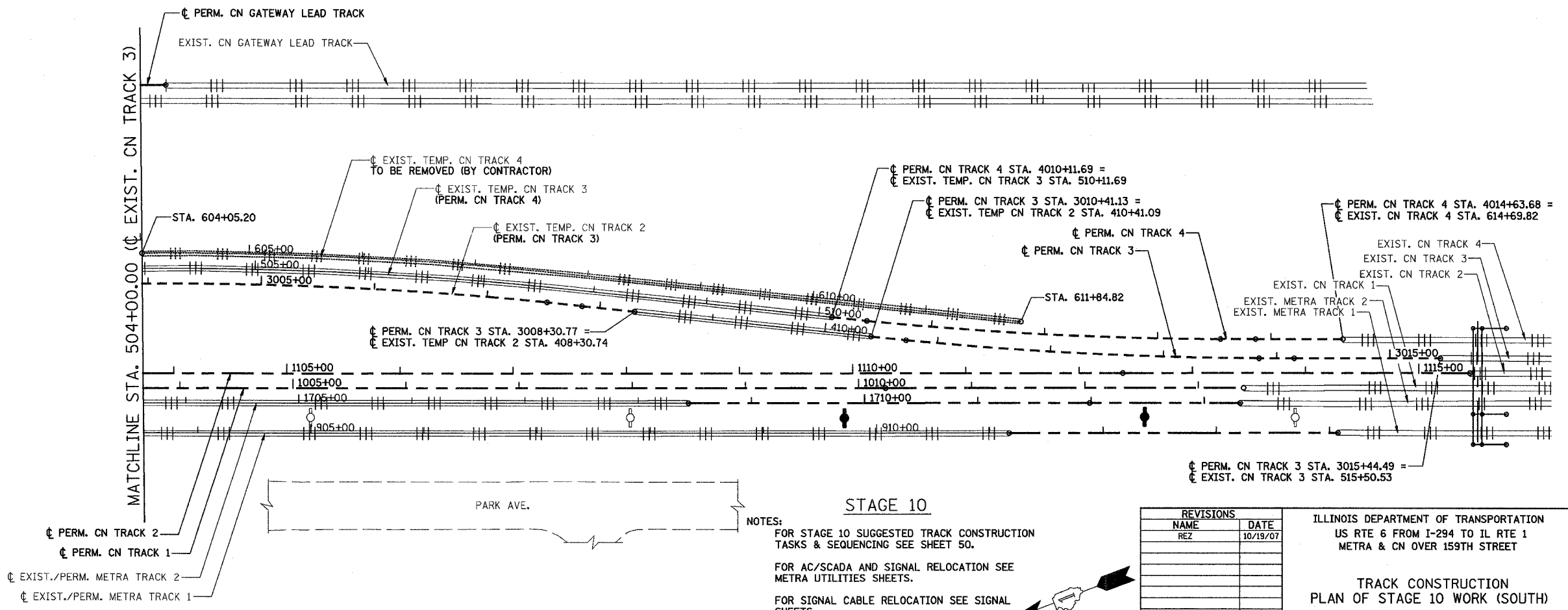
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**RAILROAD TRACK, REMOVE (BY CONTRACTOR)**  
 EXIST. CN TRACK 4 TO BE REMOVED  
 STA. 604+05.20 TO STA. 611+84.82 = 780 TRK. FT.  
 TOTAL = 780 TRK. FT.

**RAILROAD TRACK SHIFT (BY CN)**  
 REALIGN EXIST. CN TRACK 3 TO  
 EXIST. TEMP CN TRACK 2  
 STA. 3010+41.13 TO STA. 3015+44.49  
 REALIGN EXIST. CN TRACK 4 TO  
 EXIST. TEMP CN TRACK 3  
 STA. 4010+11.69 TO STA. 4014+63.68

**RAILROAD TRACK SHIFT ASSIST (BY CONTRACTOR)**  
 1 EACH FOR ABOVE CN TRACK SHIFTS  
 TOTAL = 2 EA.



**NOTES:**  
 FOR STAGE 10 SUGGESTED TRACK CONSTRUCTION TASKS & SEQUENCING SEE SHEET 50.  
 FOR AC/SCADA AND SIGNAL RELOCATION SEE METRA UTILITIES SHEETS.  
 FOR SIGNAL CABLE RELOCATION SEE SIGNAL SHEETS.  
 FOR LEGEND, SEE SHEET 21.

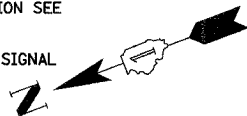
**STAGE 10**

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 PLAN OF STAGE 10 WORK (SOUTH)**

SHT. 49 OF 88  
 DATE 2/21/2008  
 DRAWN BY REZ  
 CHECKED BY RMS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	224
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60E10

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**SUGGESTED STAGE 10 TRACK CONSTRUCTION SEQUENCE**

1. CUT AND THROW EXIST. CN TRACK 3 TO EXIST. TEMP. TRACK 2 (EXIST. CN TRACK 2 TO BE LINED AND SURFACED FROM 50 MPH DESIGN TO 20 MPH DESIGN FOR PERM CN TRACK 3. TEMP. CN TRACK 2 TO BECOME PERM. CN TRACK 3) (CONTRACTOR)
2. CUT AND THROW EXIST. CN TRACK 4 TO EXIST. TEMP. TRACK 3 (TEMP. CN TRACK 3 TO BECOME PERM. CN TRACK 4) (CN)
3. REMOVE EXIST. TEMP CN TRACK 4. (CONTRACTOR)

**NOTE:**  
 DURATIONS NOTED ABOVE FOR WORK PERFORMED BY METRA AND THE CN ARE APPROXIMATE ONLY AND SUBJECT TO WEATHER CONDITIONS, AVAILABILITY OF RAILROAD STAFF, AND NUMEROUS OTHER FACTORS. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK AND PLANNED SCHEDULE WITH THE RAILROADS CONCERNING WORK TO BE PERFORMED BY THE RAILROADS. NO ADDITIONAL TIME WILL BE ALLOWED IN THE CONTRACTOR'S SCHEDULE FOR MEETING OF THE INTERIM COMPLETION DATES SPECIFIED FOR THIS PROJECT DUE TO VARIATIONS IN THESE APPROXIMATE DURATIONS.

**SUMMARY OF QUANTITIES FOR SUGGESTED STAGE 10 TRACK CONSTRUCTION TASKS**

ITEM	UNIT	CONTRACTOR PAY ITEM QUANTITY	QUANTITY BY RR	
			FORCE ACCOUNT WORK BY RAILROADS (FOR REFERENCE ONLY)	
			METRA	CN
RAILROAD TRACK SHIFT ASSIST	EACH	5		
RAILROAD TRACK, REMOVE	TRK. FT.	1505		
RAILROAD TRACK SHIFT	EACH			5

**NOTES:**  
 FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION OF CATENARY SUPPORT AND CATENARY DEAD END STRUCTURES SEE CATENARY STRUCTURES SHEETS.  
 FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF CONDUITS AND CABLES FOR RE-ROUTING OF METRA AC POWER AND FIBER OPTIC SCADA/COMMUNICATION SYSTEM, SEE METRA UTILITIES SHEETS.  
 FOR DETAILS AND PAY ITEMS ASSOCIATED WITH CONSTRUCTION AND INSTALLATION OF METRA SIGNAL SYSTEM, SEE METRA SIGNALS SHEETS.

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 STAGE 10 TASKS AND SEQUENCING**

SHT. 50 OF 88  
 DATE 2/21/2008

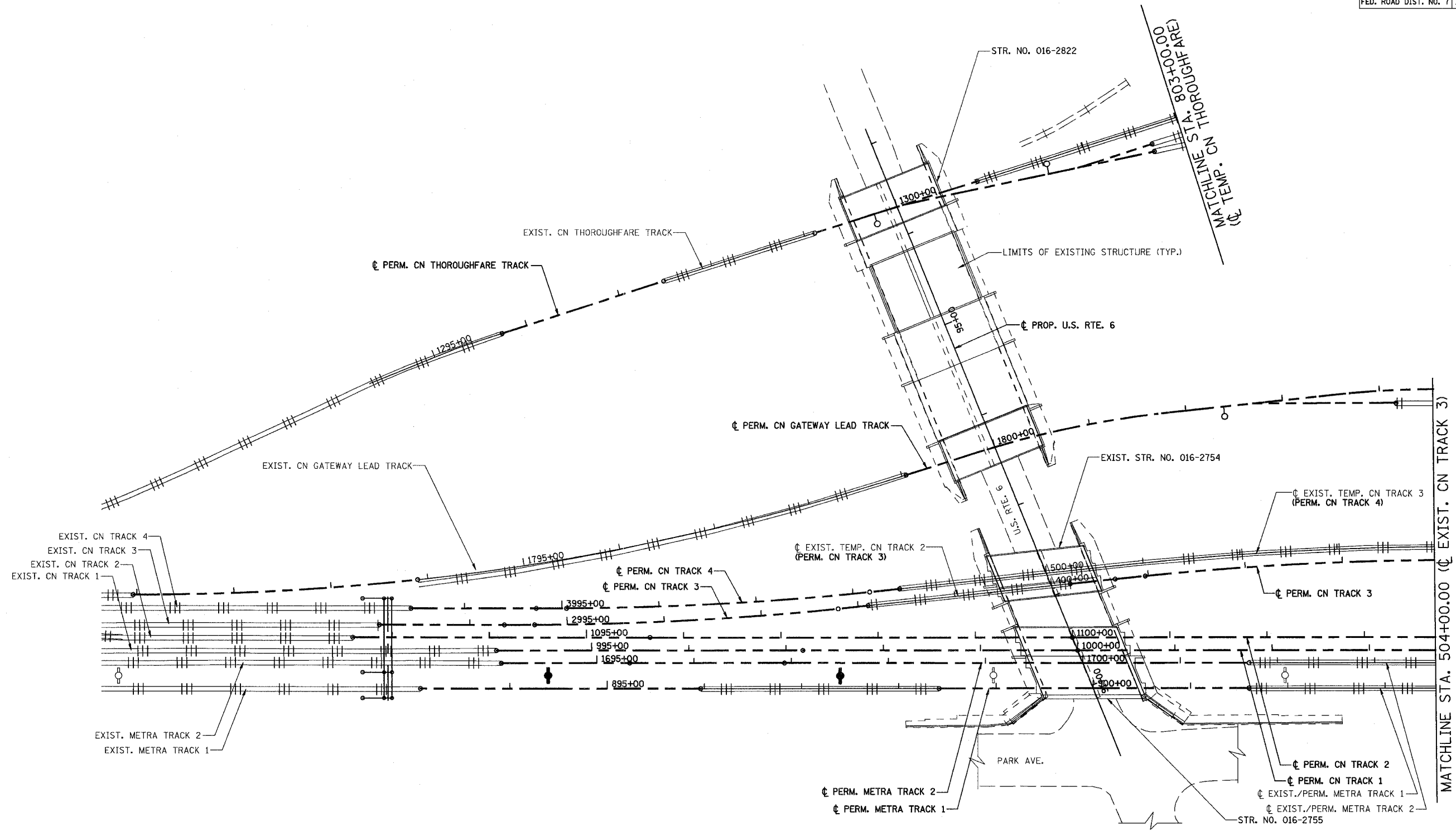
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	225
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

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**FINAL ALIGNMENT**  
 NOTES:  
 FOR LEGEND, SEE SHEET 18.

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 FINAL ALIGNMENT**

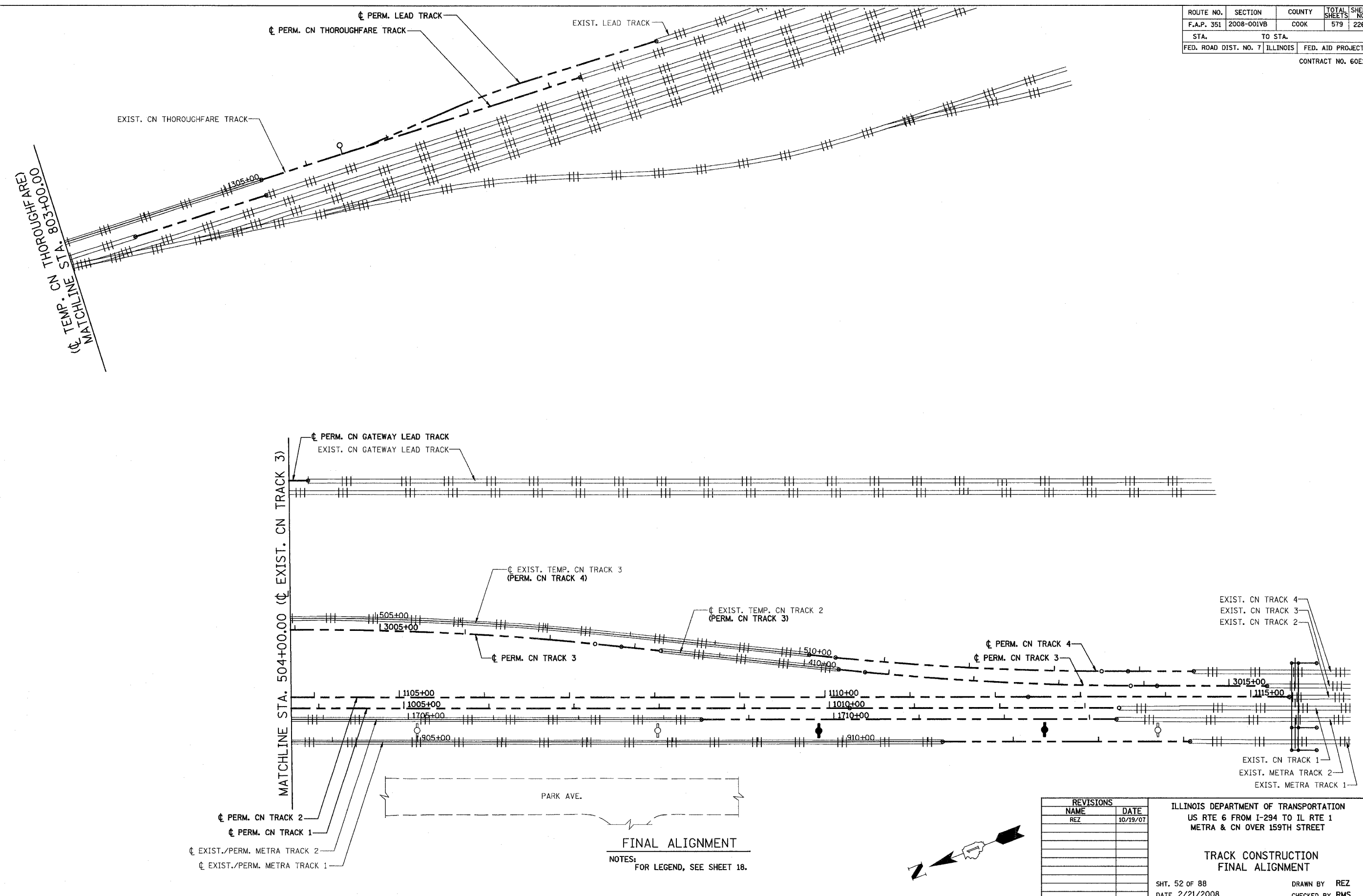
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 DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	226
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 FINAL ALIGNMENT**

SHT. 52 OF 88  
 DATE 2/21/2008

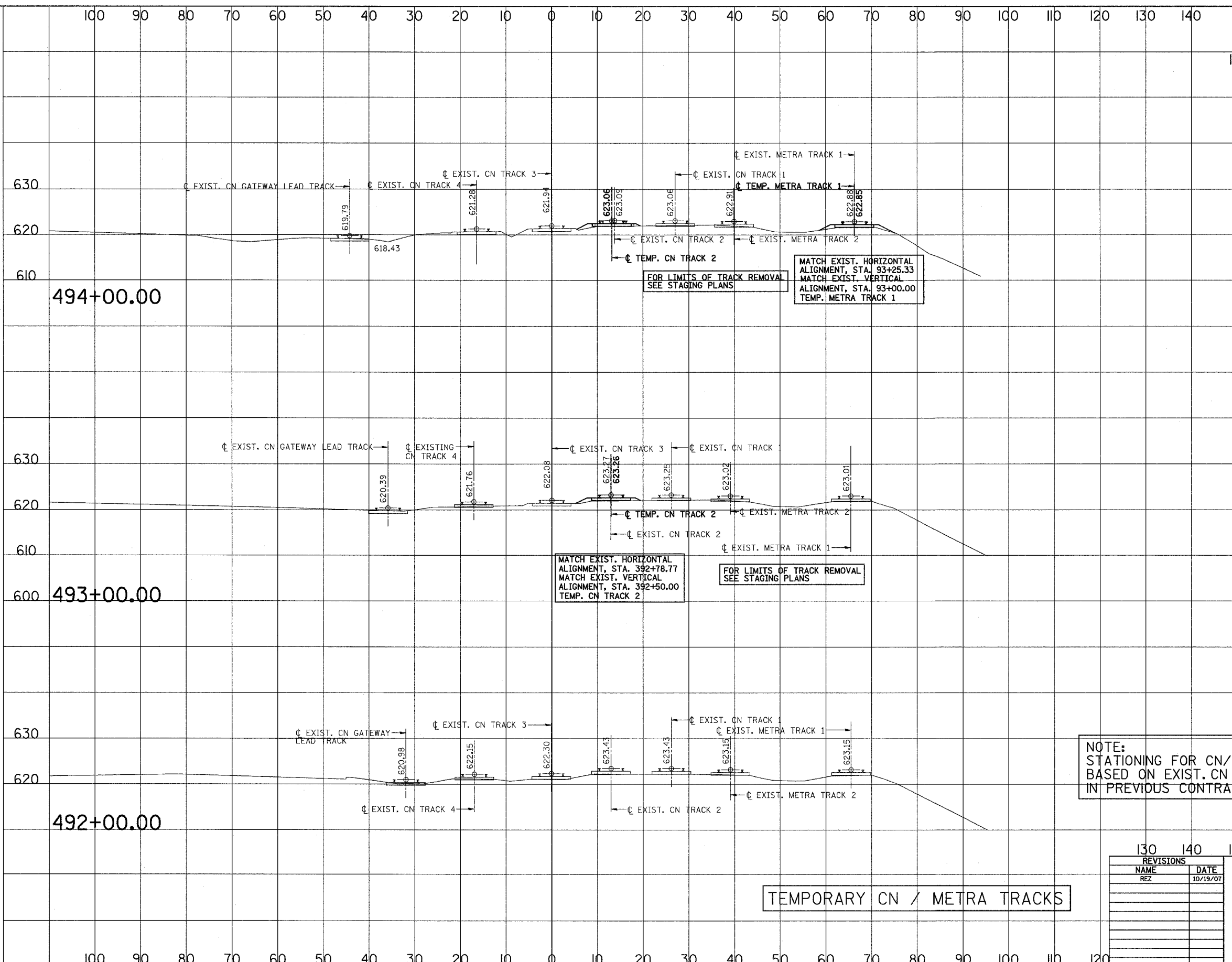
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	227
STA.	TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	
150	160	170	CONTRACT NO. 60E10	

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



MATCH EXIST. HORIZONTAL ALIGNMENT, STA. 392+78.77  
 MATCH EXIST. VERTICAL ALIGNMENT, STA. 392+50.00  
 TEMP. CN TRACK 2

FOR LIMITS OF TRACK REMOVAL SEE STAGING PLANS

MATCH EXIST. HORIZONTAL ALIGNMENT, STA. 93+25.33  
 MATCH EXIST. VERTICAL ALIGNMENT, STA. 93+00.00  
 TEMP. METRA TRACK 1

FOR LIMITS OF TRACK REMOVAL SEE STAGING PLANS

NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS BASED ON EXIST. CN TRACK 3 (CONSTRUCTED IN PREVIOUS CONTRACT.)

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 53 OF 88  
 DATE 2/21/2008

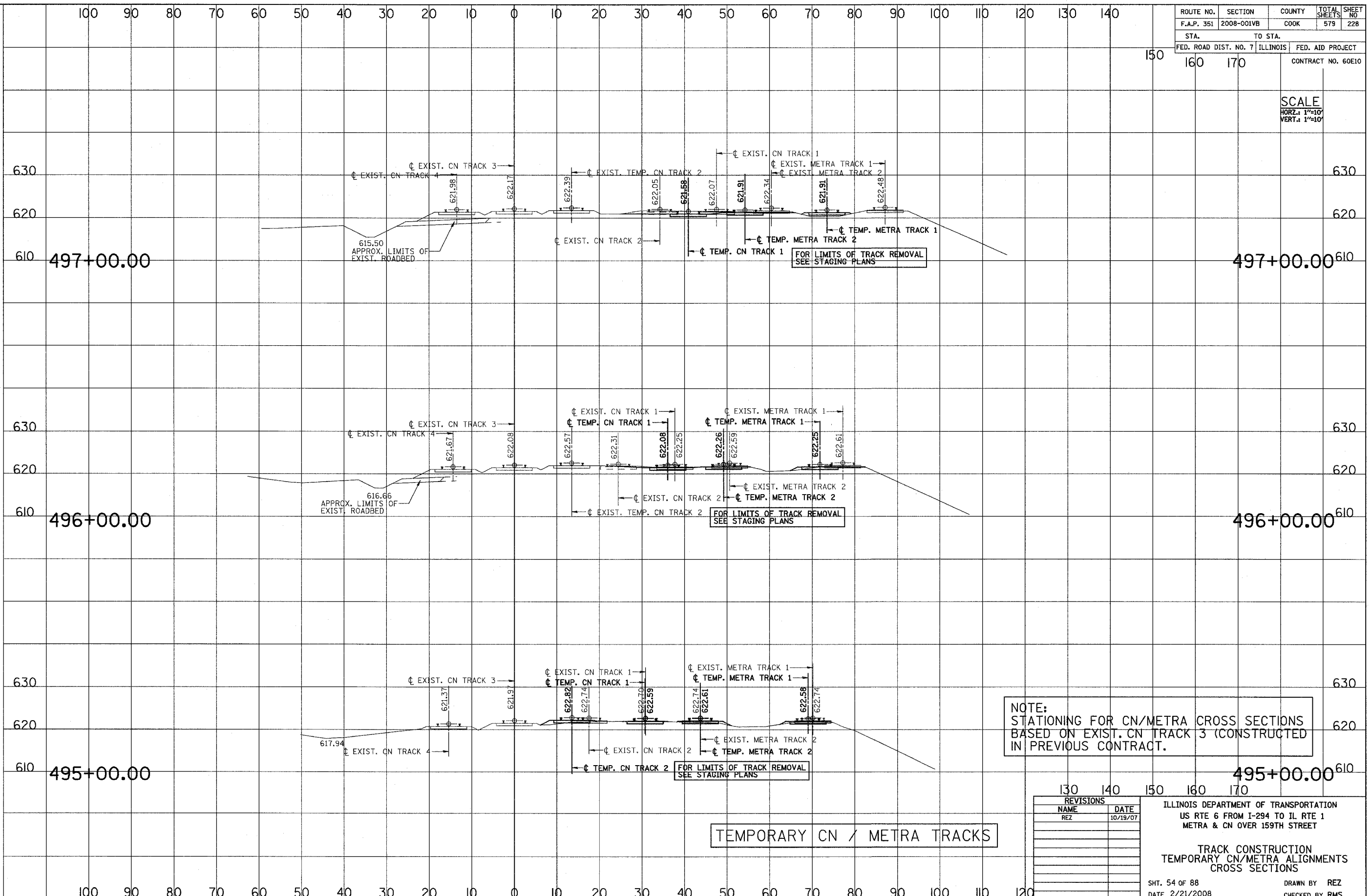
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	228
STA. 150		TO STA. 160 170		CONTRACT NO. 60E10
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS  
 BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
 IN PREVIOUS CONTRACT.

TEMPORARY CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 54 OF 88  
 DATE 2/21/2008

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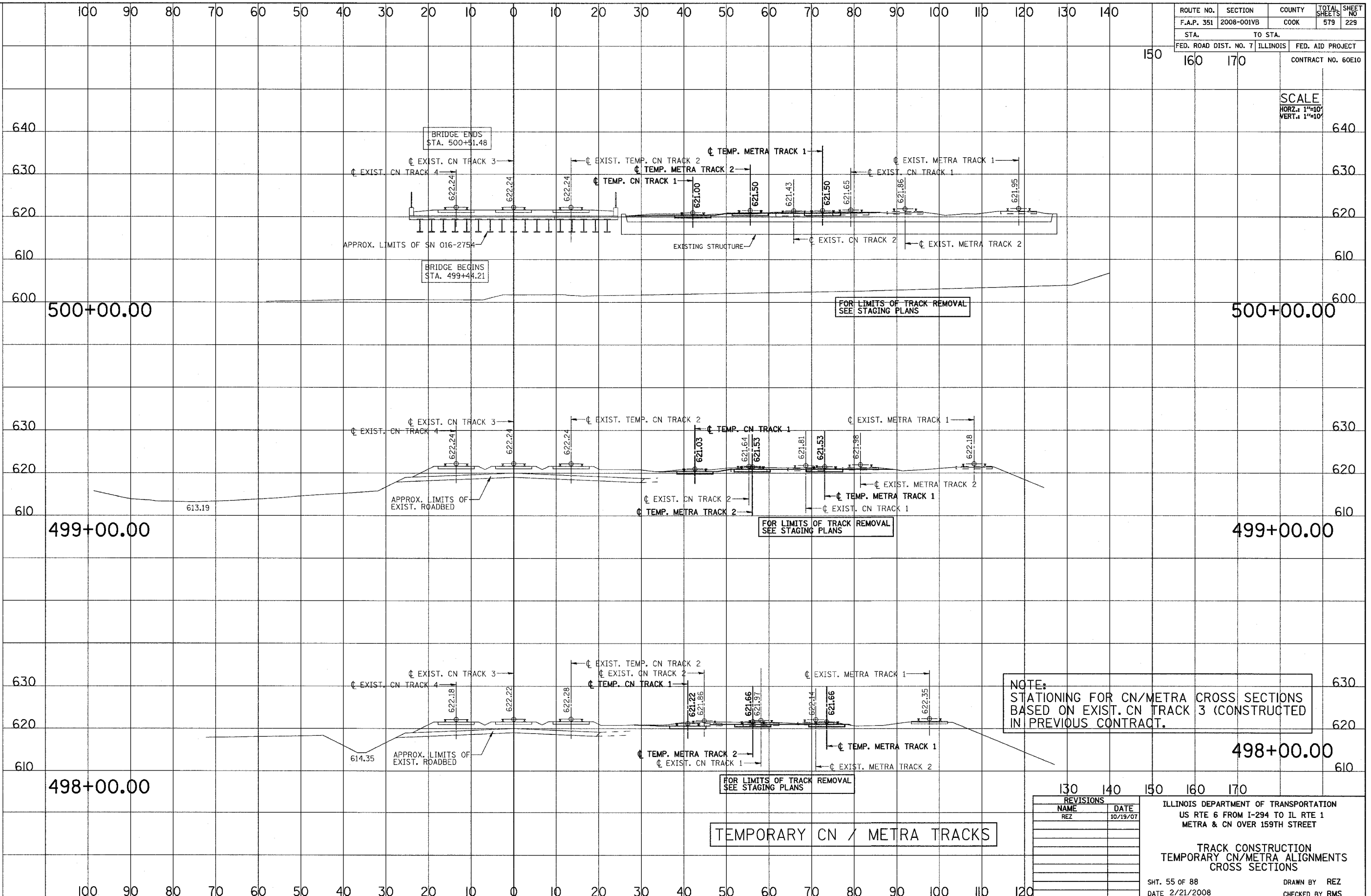


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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	229
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
150		160	170	CONTRACT NO. 60E10

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS  
 BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
 IN PREVIOUS CONTRACT.)

TEMPORARY CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 55 OF 88  
 DATE 2/21/2008

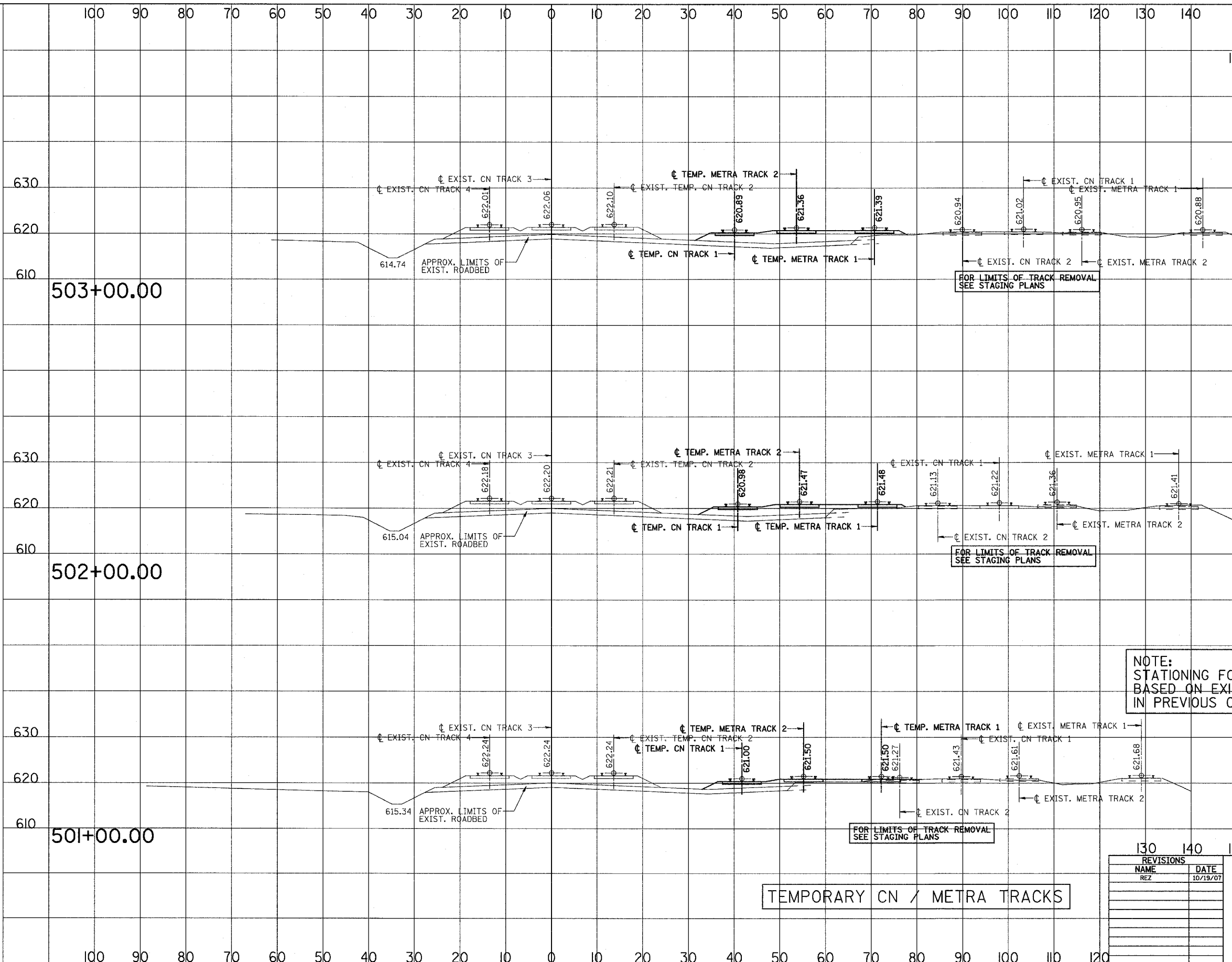
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	230
STA.		TO STA.		
150		160 170		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
		CONTRACT NO. 60E10		

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS  
 BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
 IN PREVIOUS CONTRACT.)

TEMPORARY CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 56 OF 88  
 DATE 2/21/2008

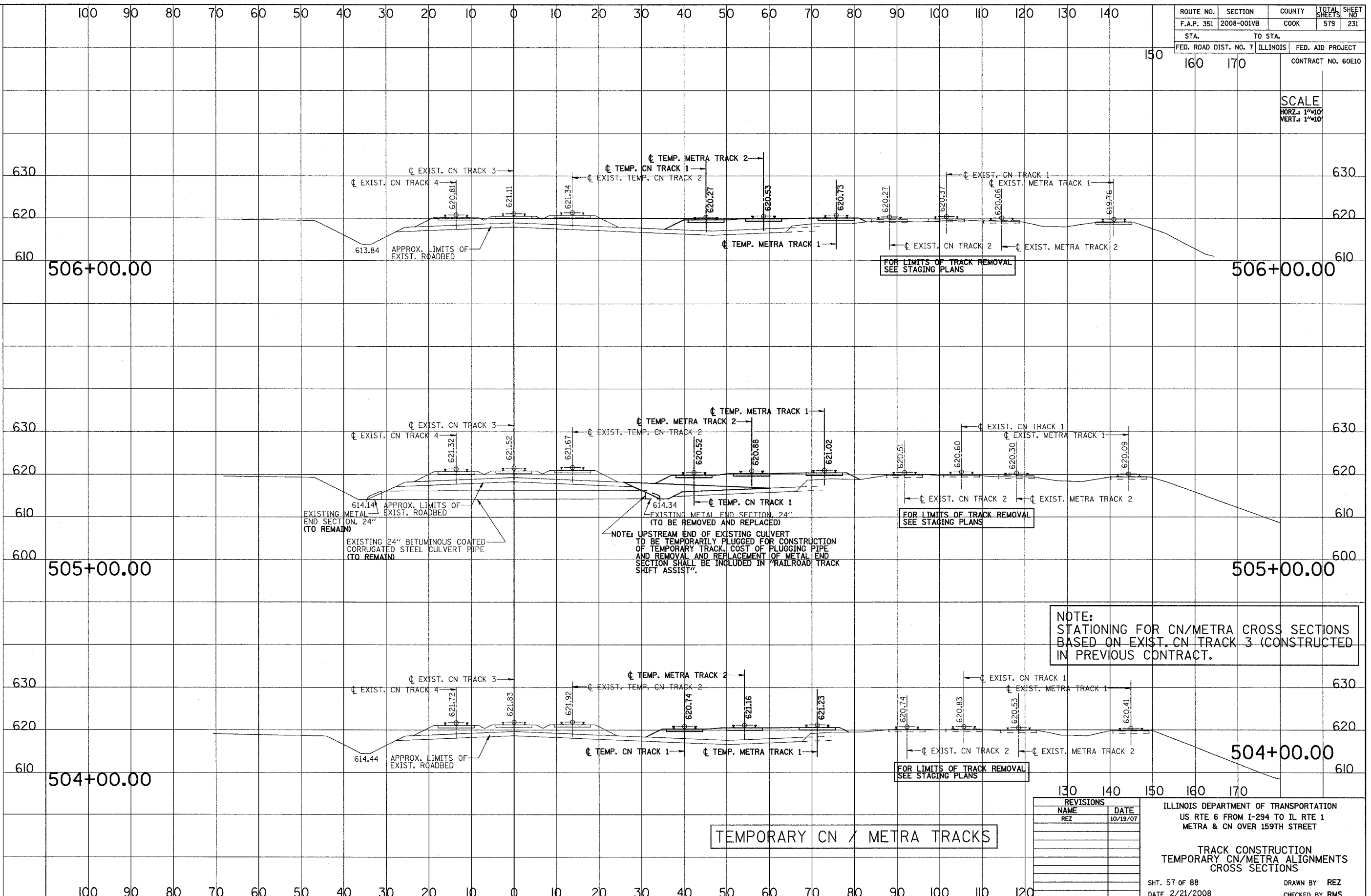
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	231
STA. 150		TO STA. 160		CONTRACT NO. 60E10
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



TEMPORARY CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 57 OF 88  
 DATE 2/21/2008

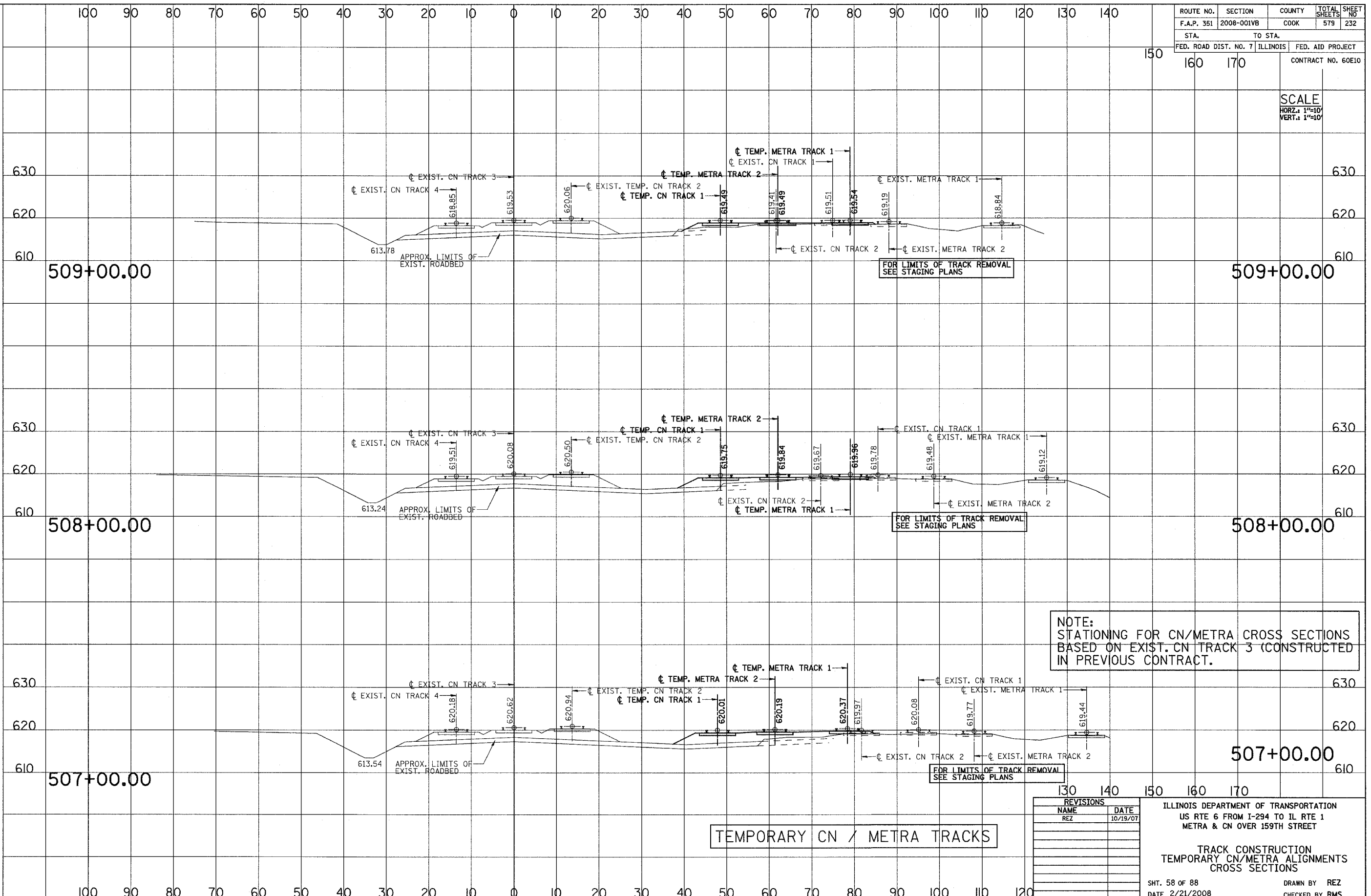
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	232
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
150 160 170		CONTRACT NO. 60E10		

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS  
 BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
 IN PREVIOUS CONTRACT.)

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 58 OF 88  
 DATE 2/21/2008

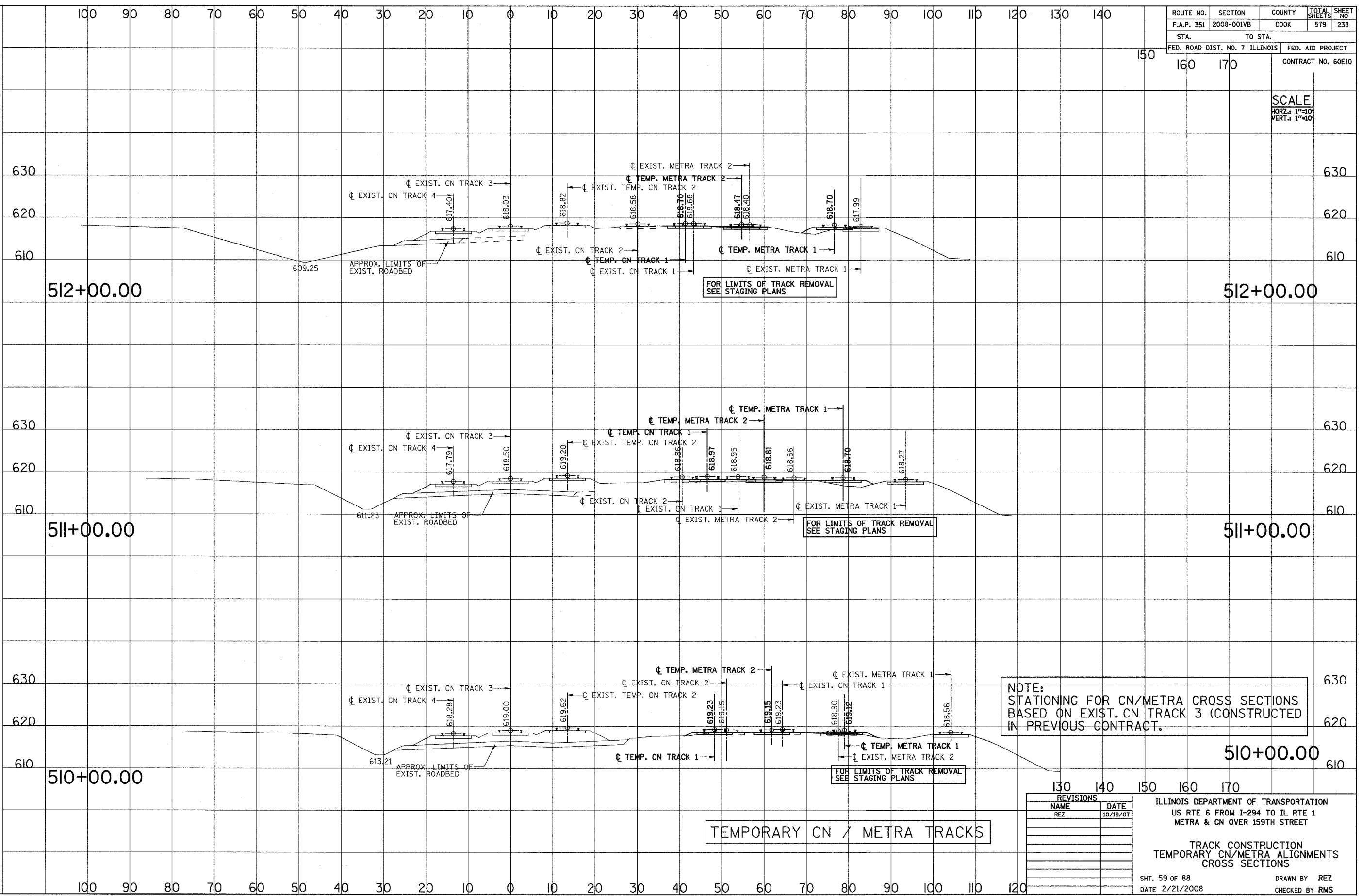
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	233
STA.	TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	
150	160	170	CONTRACT NO. 60E10	

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



TEMPORARY CN / METRA TRACKS

NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS  
 BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
 IN PREVIOUS CONTRACT.)

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 59 OF 88  
 DATE 2/21/2008

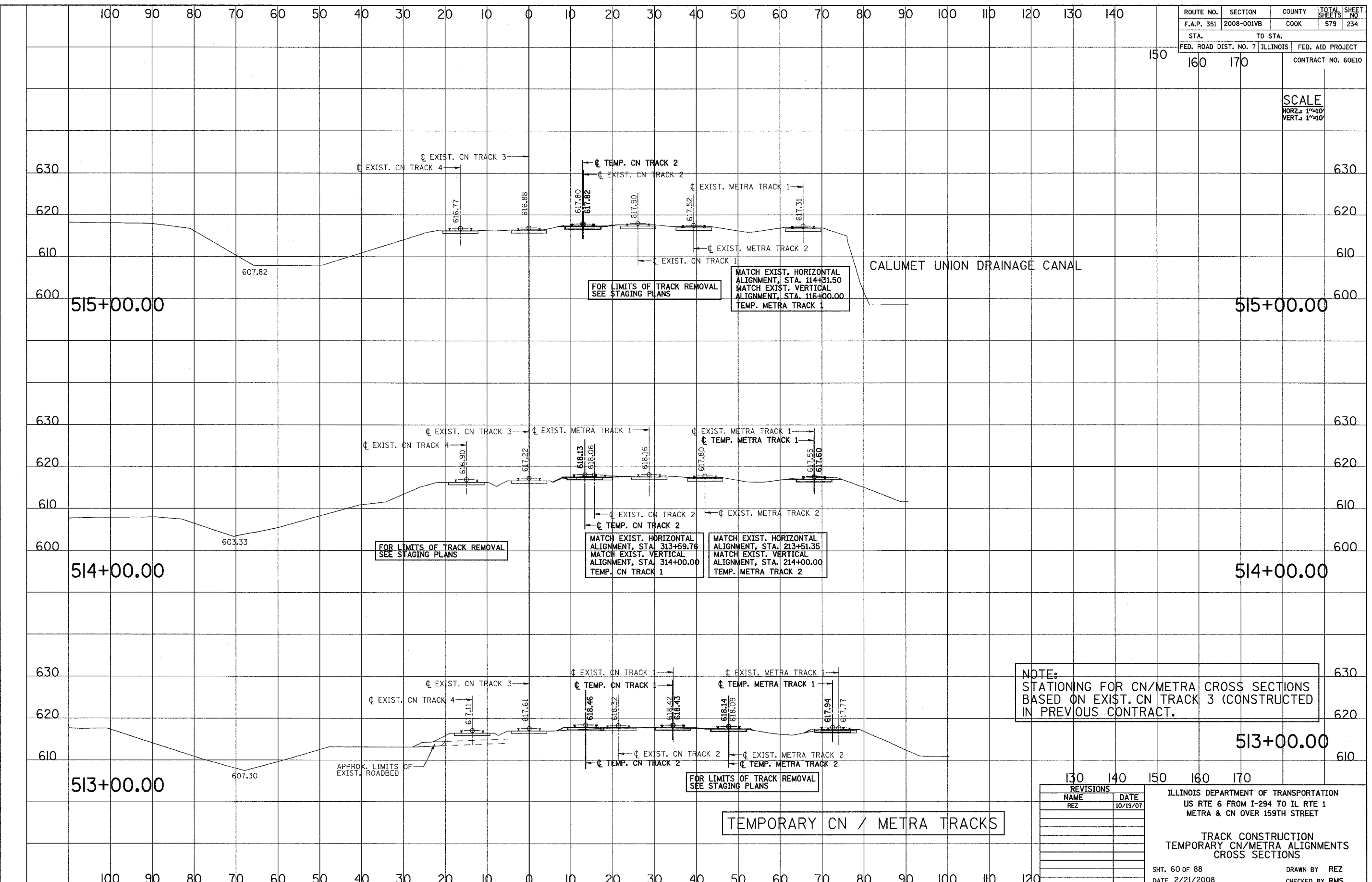
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	234
STA.	TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	
150	160	170	CONTRACT NO. 60E10	

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS  
 BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
 IN PREVIOUS CONTRACT.)

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 60 OF 88  
 DATE 2/21/2008

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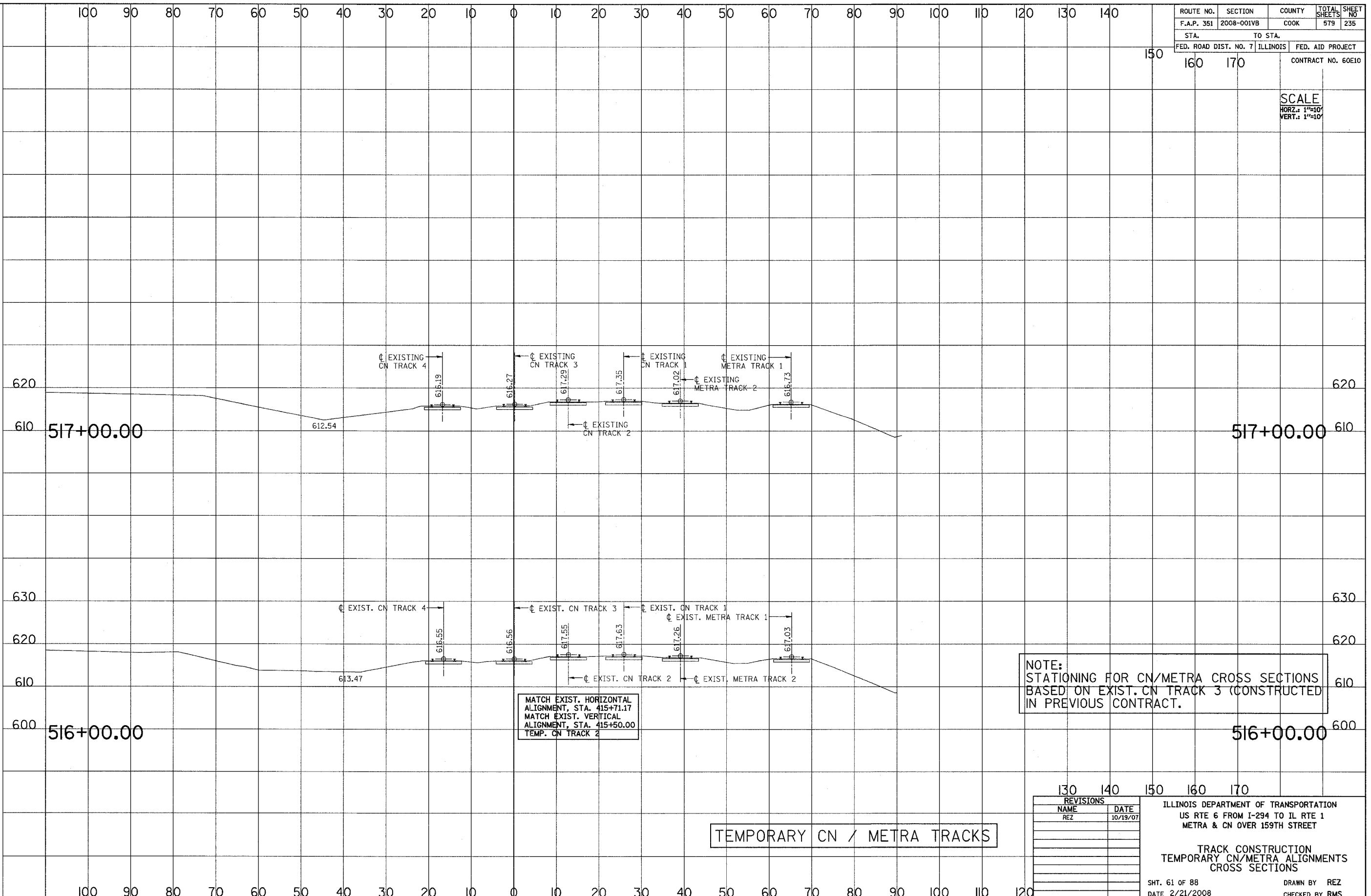
TEMPORARY CN / METRA TRACKS

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	235
STA.		TO STA.		
150		160 170		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
		CONTRACT NO. 60E10		

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS  
 BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
 IN PREVIOUS CONTRACT.

TEMPORARY CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN/METRA ALIGNMENTS  
 CROSS SECTIONS

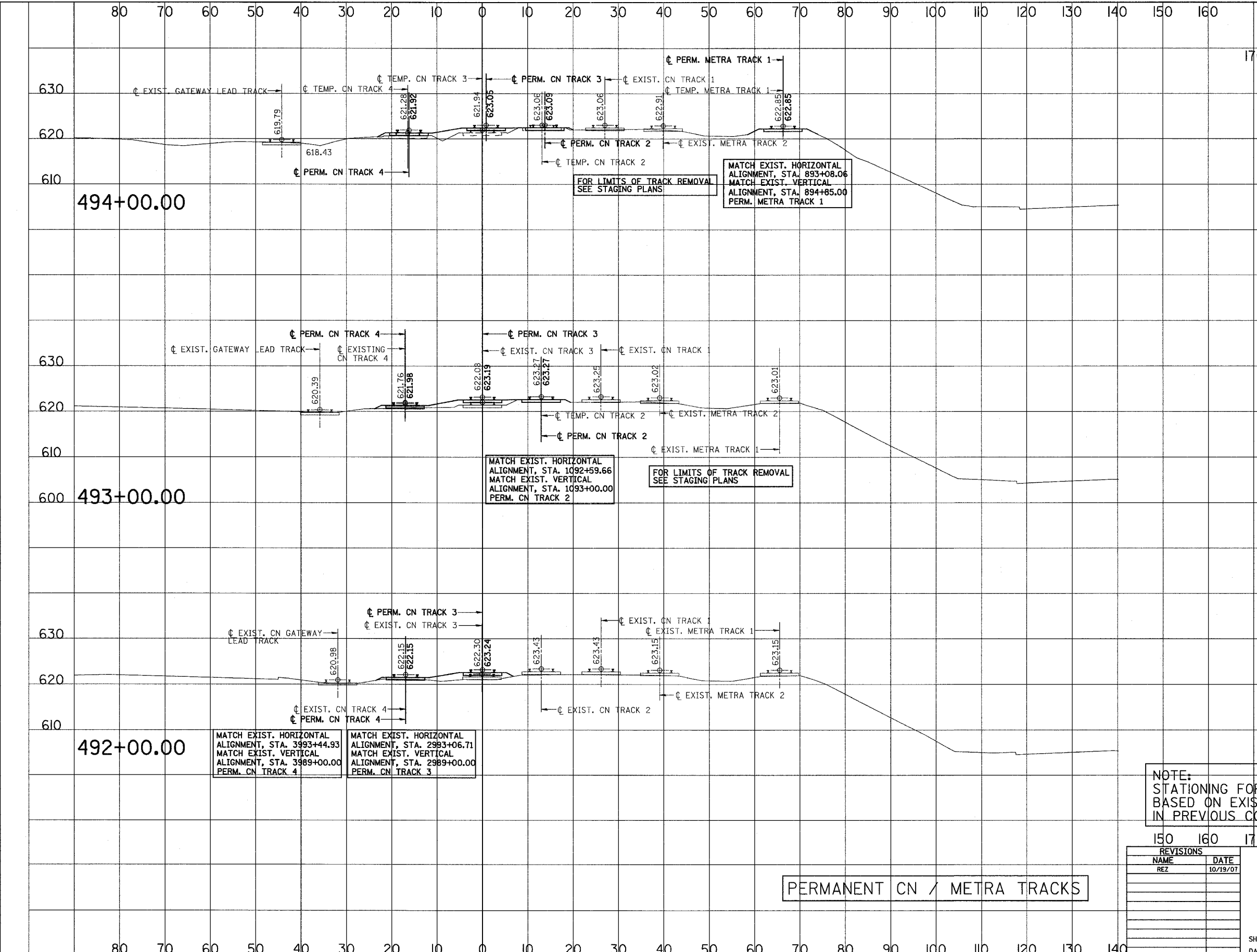
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 DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	236
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
170 180 190		CONTRACT NO. 60E10		



SCALE  
HORIZ. 1"=10'  
VERT. 1"=10'

MATCH EXIST. HORIZONTAL ALIGNMENT, STA. 3993+44.93  
MATCH EXIST. VERTICAL ALIGNMENT, STA. 3989+00.00  
PERM. CN TRACK 4

MATCH EXIST. HORIZONTAL ALIGNMENT, STA. 2983+06.71  
MATCH EXIST. VERTICAL ALIGNMENT, STA. 2989+00.00  
PERM. CN TRACK 3

MATCH EXIST. HORIZONTAL ALIGNMENT, STA. 1092+59.66  
MATCH EXIST. VERTICAL ALIGNMENT, STA. 1093+00.00  
PERM. CN TRACK 2

MATCH EXIST. HORIZONTAL ALIGNMENT, STA. 893+08.06  
MATCH EXIST. VERTICAL ALIGNMENT, STA. 894+85.00  
PERM. METRA TRACK 1

FOR LIMITS OF TRACK REMOVAL SEE STAGING PLANS

FOR LIMITS OF TRACK REMOVAL SEE STAGING PLANS

NOTE:  
STATIONING FOR CN/METRA CROSS SECTIONS BASED ON EXIST. CN TRACK 3 (CONSTRUCTED IN PREVIOUS CONTRACT.)

PERMANENT CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
PERMANENT CN/METRA ALIGNMENTS  
CROSS SECTIONS

SHT. 62 OF 88  
DATE 2/21/2008

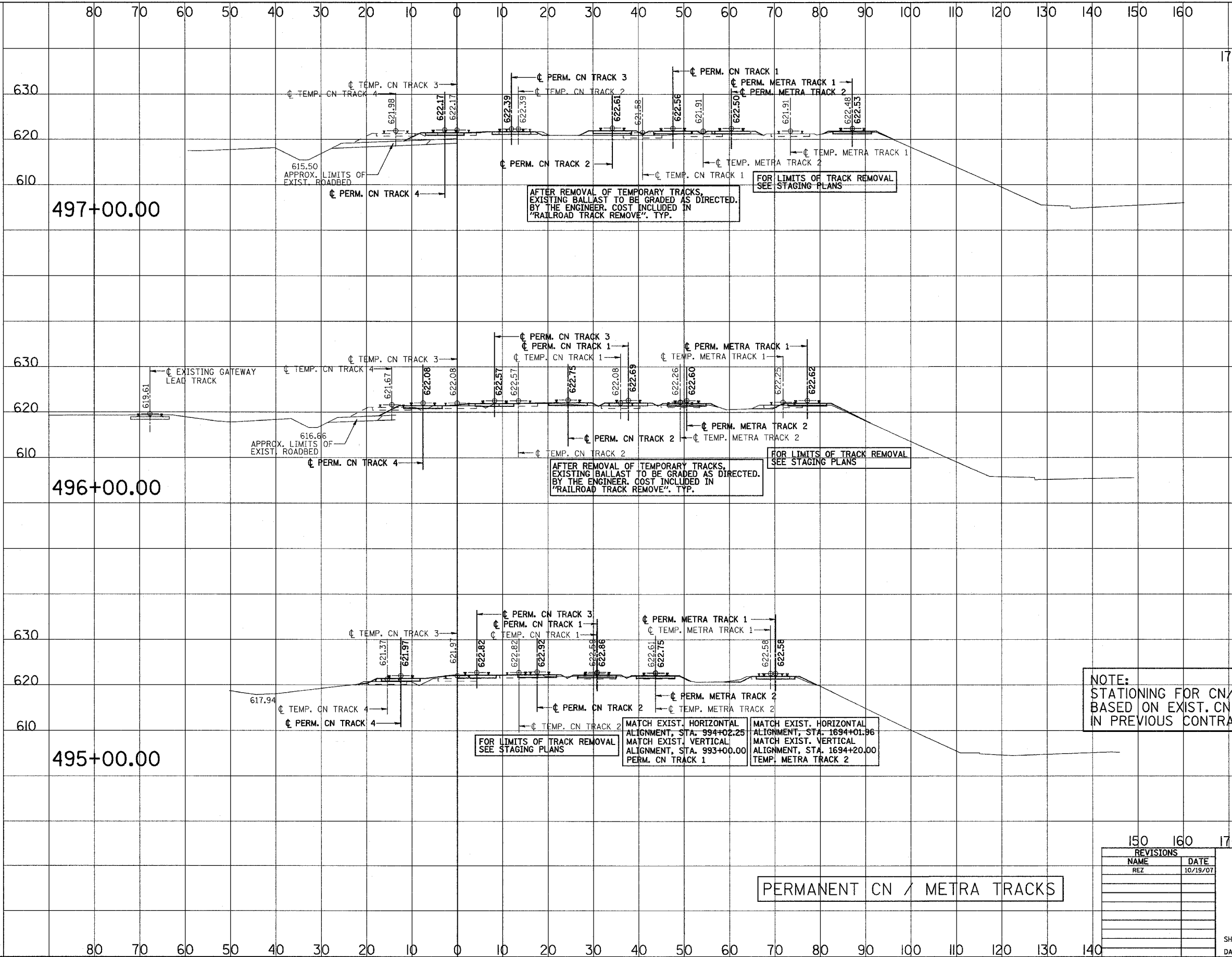
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	237
STA. TO STA.		FED. AID PROJECT		
170 180 190		CONTRACT NO. 60E10		



SCALE  
HORZ.: 1"=10'  
VERT.: 1"=10'

NOTE:  
STATIONING FOR CN/METRA CROSS SECTIONS  
BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
IN PREVIOUS CONTRACT.

PERMANENT CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
PERMANENT CN/METRA ALIGNMENTS  
CROSS SECTIONS

SHT. 63 OF 88  
DATE 2/21/2008

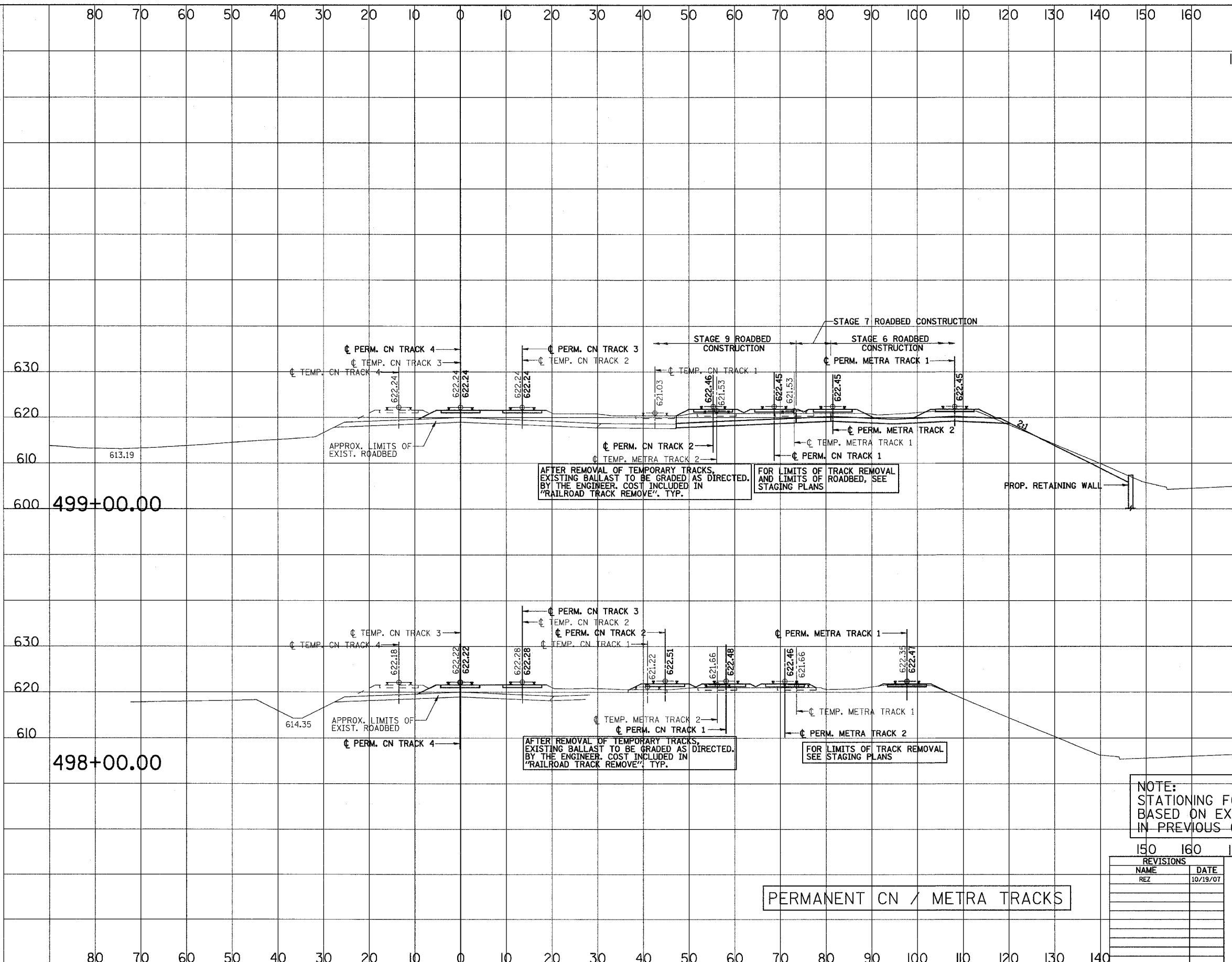
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	238
STA. 170		TO STA. 180		FED. AID PROJECT
FED. ROAD DIST. NO. 7		ILLINOIS		CONTRACT NO. 60E10

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



AFTER REMOVAL OF TEMPORARY TRACKS, EXISTING BALLAST TO BE GRADED AS DIRECTED BY THE ENGINEER. COST INCLUDED IN "RAILROAD TRACK REMOVE", TYP.

FOR LIMITS OF TRACK REMOVAL AND LIMITS OF ROADBED, SEE STAGING PLANS

AFTER REMOVAL OF TEMPORARY TRACKS, EXISTING BALLAST TO BE GRADED AS DIRECTED BY THE ENGINEER. COST INCLUDED IN "RAILROAD TRACK REMOVE", TYP.

FOR LIMITS OF TRACK REMOVAL SEE STAGING PLANS

NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS BASED ON EXIST. CN TRACK 3 (CONSTRUCTED IN PREVIOUS CONTRACT.)

PERMANENT CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PERMANENT CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 64 OF 88  
 DATE 2/21/2008

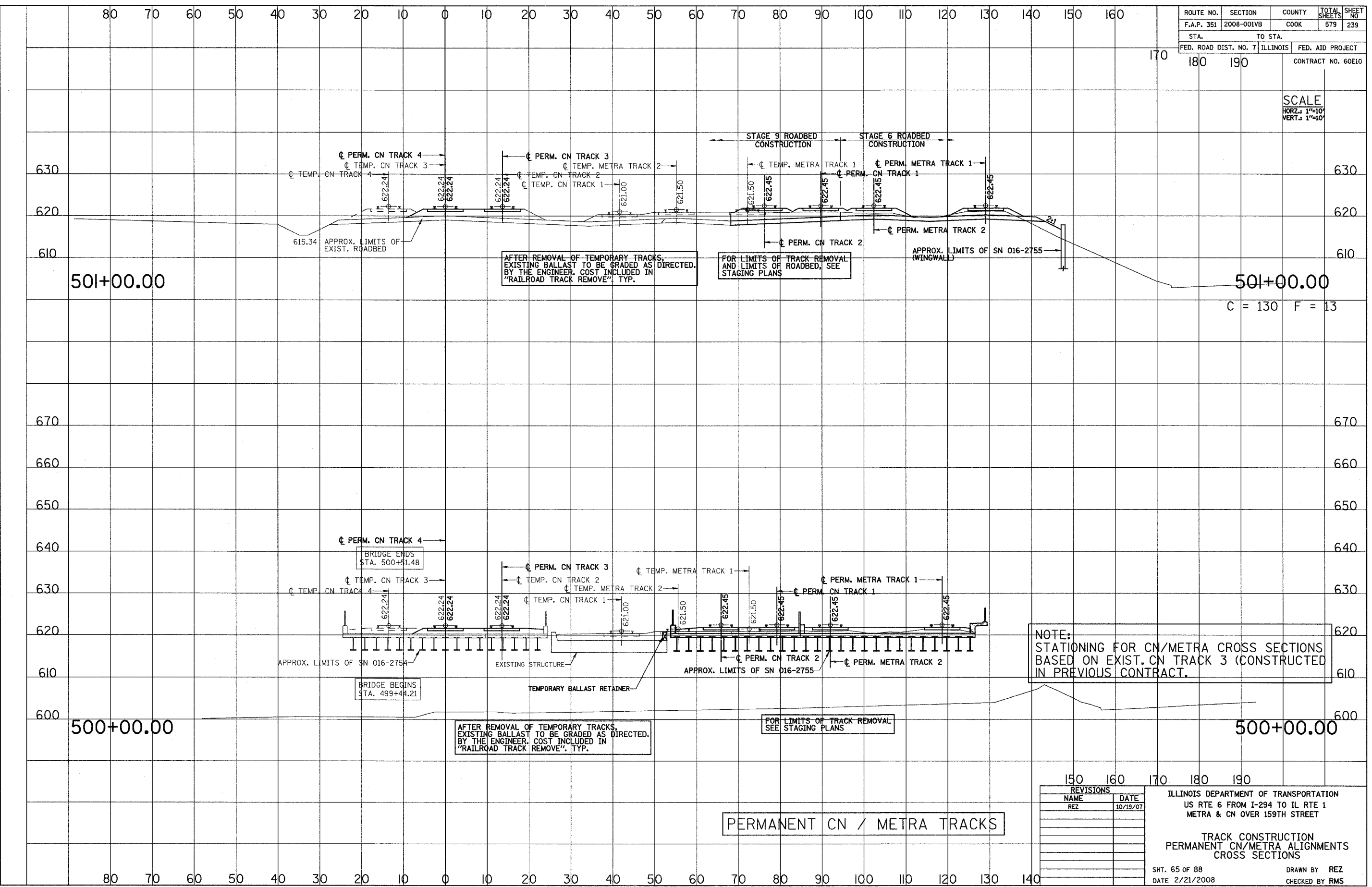
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	239
STA.	TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS	
170	180	190	FED. AID PROJECT CONTRACT NO. 60E10	

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



AFTER REMOVAL OF TEMPORARY TRACKS, EXISTING BALLAST TO BE GRADED AS DIRECTED. BY THE ENGINEER. COST INCLUDED IN "RAILROAD TRACK REMOVE", TYP.

FOR LIMITS OF TRACK REMOVAL AND LIMITS OF ROADBED, SEE STAGING PLANS

AFTER REMOVAL OF TEMPORARY TRACKS, EXISTING BALLAST TO BE GRADED AS DIRECTED. BY THE ENGINEER. COST INCLUDED IN "RAILROAD TRACK REMOVE", TYP.

FOR LIMITS OF TRACK REMOVAL SEE STAGING PLANS

NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS BASED ON EXIST. CN TRACK 3 (CONSTRUCTED IN PREVIOUS CONTRACT.)

PERMANENT CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PERMANENT CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 65 OF 88  
 DATE 2/21/2008

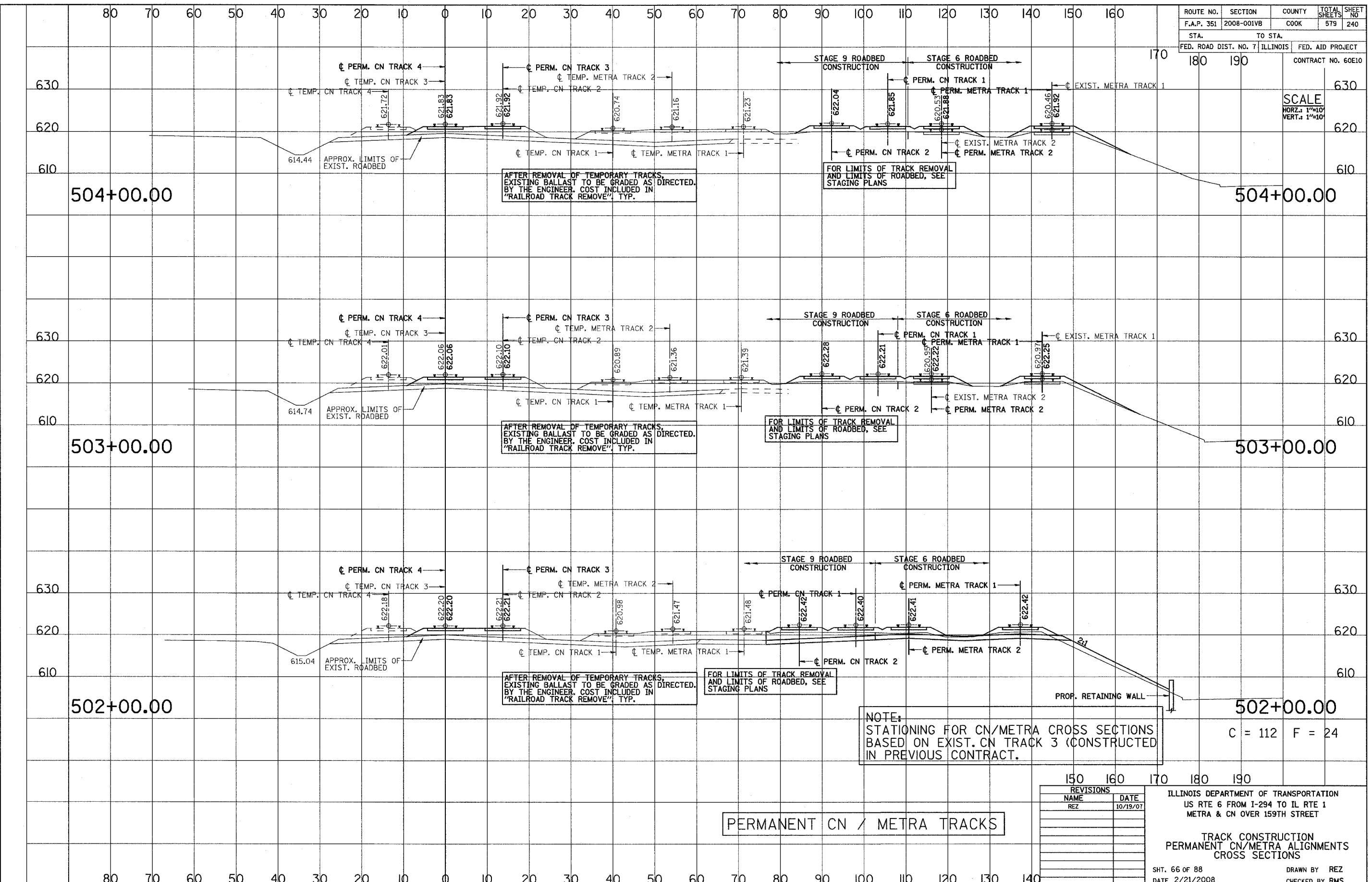
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	240
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
170 180 190		CONTRACT NO. 60E10		

SCALE  
HORIZ. 1"=10'  
VERT. 1"=10'



AFTER REMOVAL OF TEMPORARY TRACKS, EXISTING BALLAST TO BE GRADED AS DIRECTED, BY THE ENGINEER. COST INCLUDED IN "RAILROAD TRACK REMOVE" TYP.

FOR LIMITS OF TRACK REMOVAL AND LIMITS OF ROADBED, SEE STAGING PLANS

AFTER REMOVAL OF TEMPORARY TRACKS, EXISTING BALLAST TO BE GRADED AS DIRECTED, BY THE ENGINEER. COST INCLUDED IN "RAILROAD TRACK REMOVE" TYP.

FOR LIMITS OF TRACK REMOVAL AND LIMITS OF ROADBED, SEE STAGING PLANS

AFTER REMOVAL OF TEMPORARY TRACKS, EXISTING BALLAST TO BE GRADED AS DIRECTED, BY THE ENGINEER. COST INCLUDED IN "RAILROAD TRACK REMOVE" TYP.

FOR LIMITS OF TRACK REMOVAL AND LIMITS OF ROADBED, SEE STAGING PLANS

NOTE:  
STATIONING FOR CN/METRA CROSS SECTIONS BASED ON EXIST. CN TRACK 3 (CONSTRUCTED IN PREVIOUS CONTRACT).

C = 112 F = 24

PERMANENT CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
PERMANENT CN/METRA ALIGNMENTS  
CROSS SECTIONS

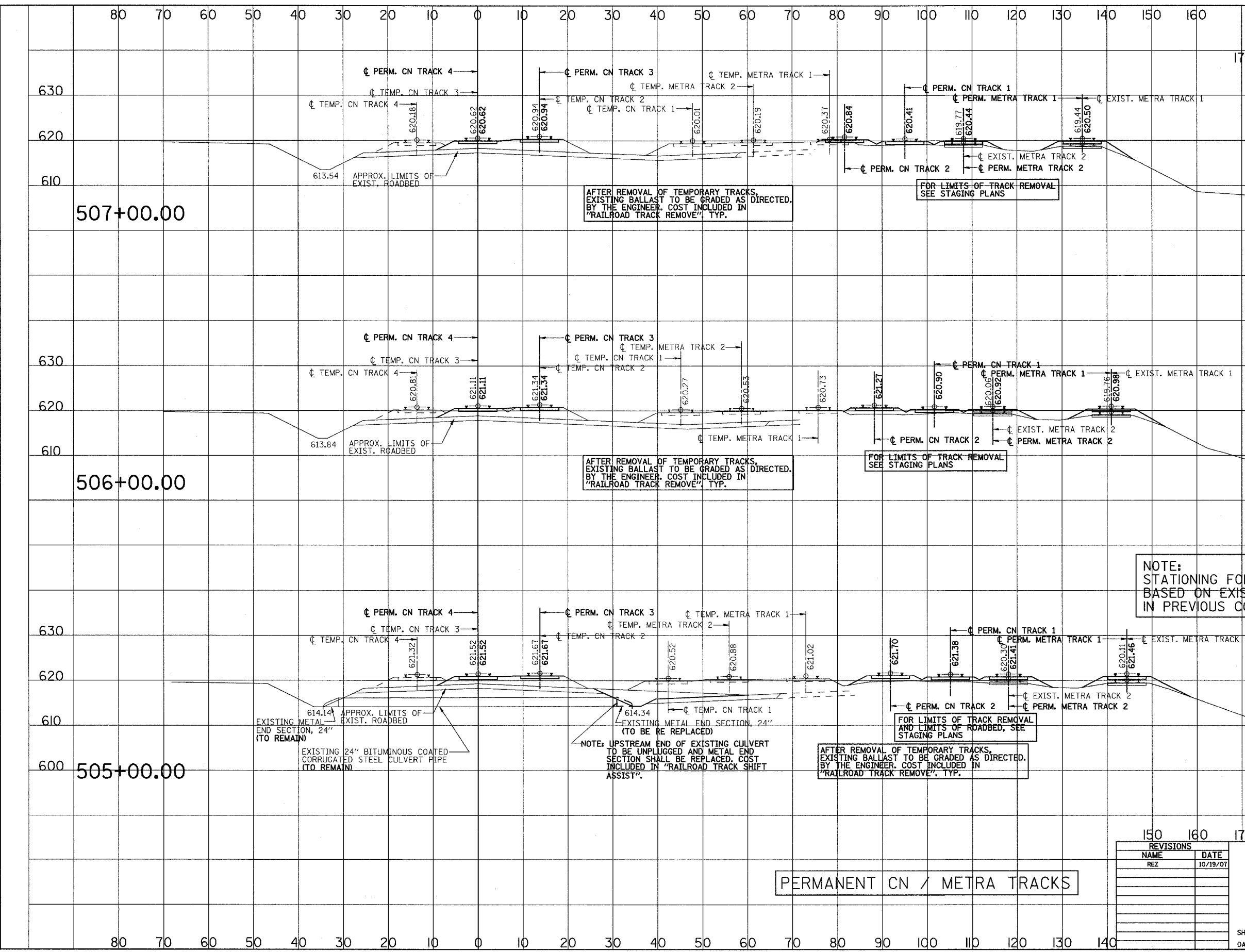
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DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	241
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
170 180 190		CONTRACT NO. 60E10		



SCALE  
HORZ.: 1"=10'  
VERT.: 1"=10'

NOTE:  
STATIONING FOR CN/METRA CROSS SECTIONS  
BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
IN PREVIOUS CONTRACT.

PERMANENT CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
PERMANENT CN/METRA ALIGNMENTS  
CROSS SECTIONS

SHT. 67 OF 88  
DATE 2/21/2008

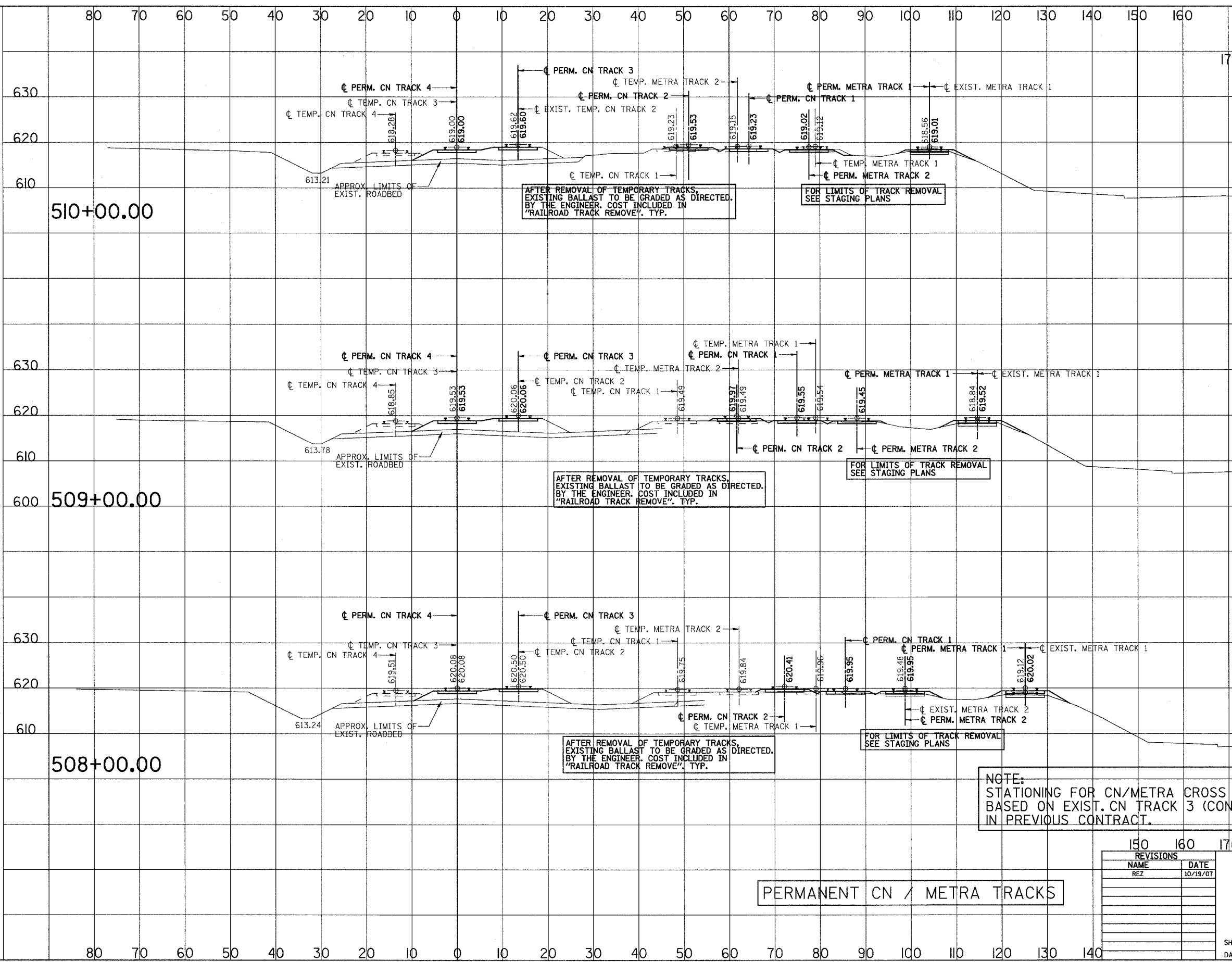
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	242
STA.	TO STA.		FED. AID PROJECT	
170	180	190	CONTRACT NO. 60E10	

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



PERMANENT CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PERMANENT CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 68 OF 88  
 DATE 2/21/2008

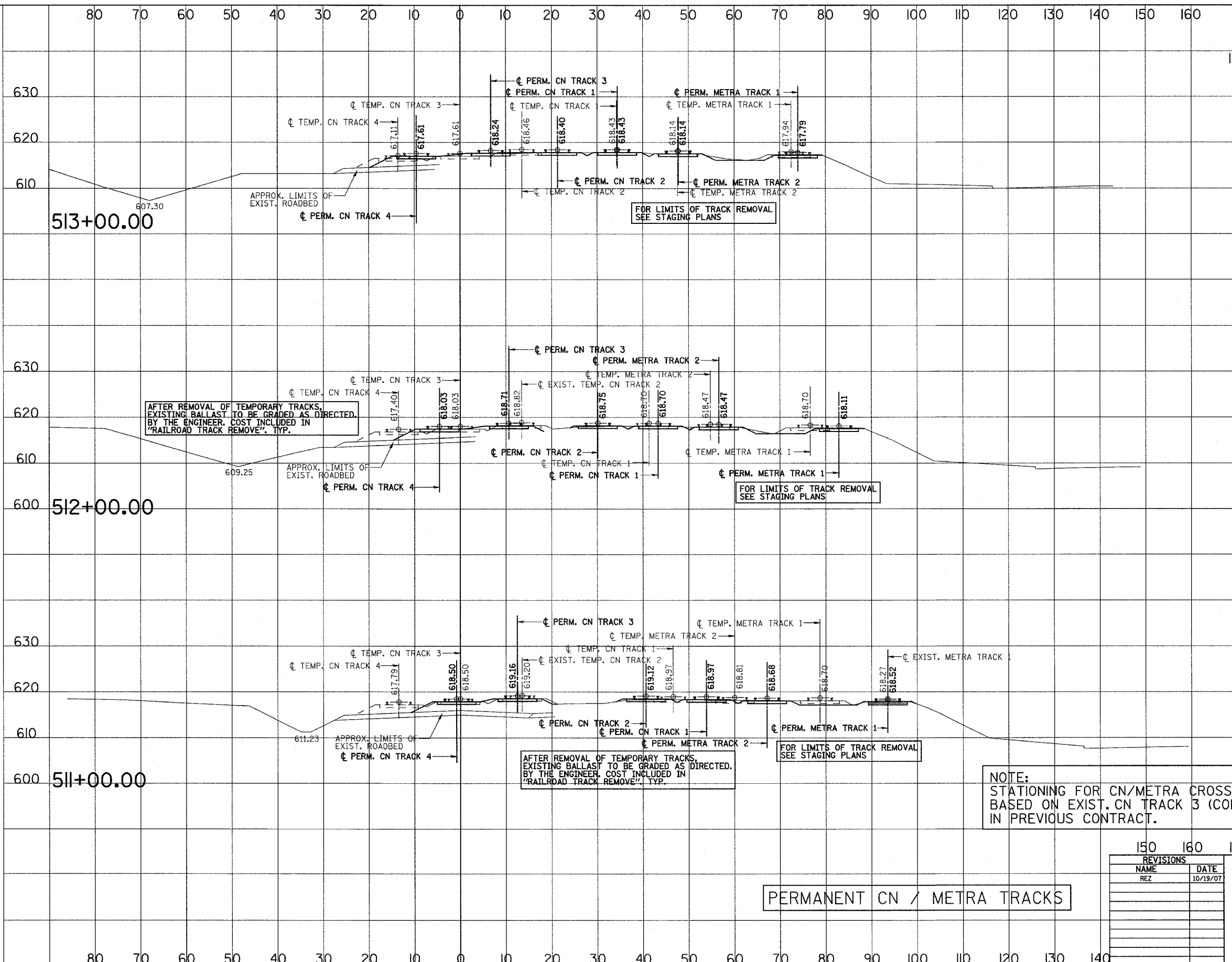
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	243
STA.		TO STA.		
170		180 190		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
				CONTRACT NO. 60E10

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



NOTE:  
 STATIONING FOR CN/METRA CROSS SECTIONS  
 BASED ON EXIST. CN TRACK 3 (CONSTRUCTED  
 IN PREVIOUS CONTRACT.

PERMANENT CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PERMANENT CN/METRA ALIGNMENTS  
 CROSS SECTIONS

SHT. 69 OF 88  
 DATE 2/21/2008

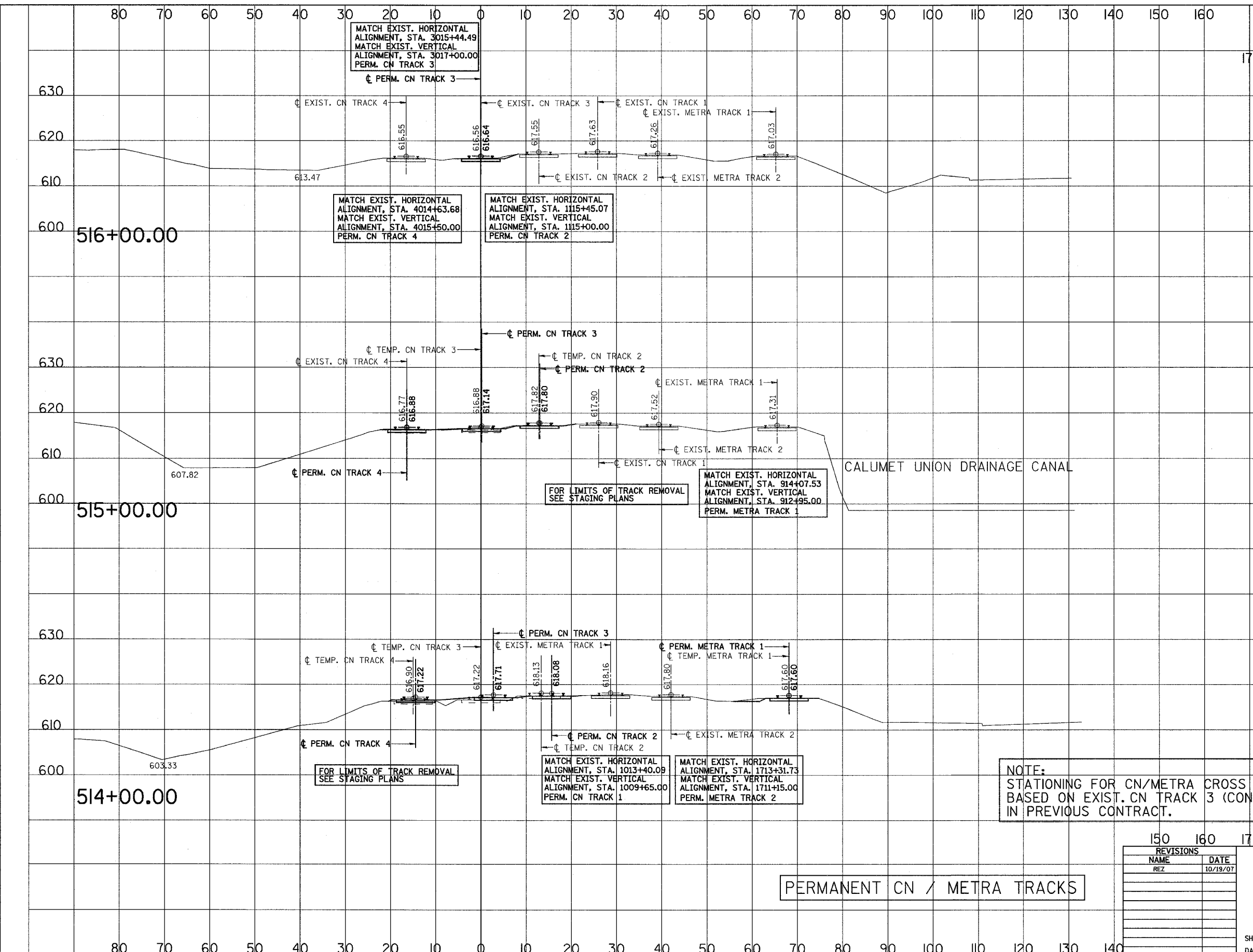
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	244
STA. 170		TO STA. 180		CONTRACT NO. 60E10
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SCALE  
HORIZ. 1"=10'  
VERT. 1"=10'



FOR LIMITS OF TRACK REMOVAL SEE STAGING PLANS

FOR LIMITS OF TRACK REMOVAL SEE STAGING PLANS

NOTE:  
STATIONING FOR CN/METRA CROSS SECTIONS BASED ON EXIST. CN TRACK 3 (CONSTRUCTED IN PREVIOUS CONTRACT.)

PERMANENT CN / METRA TRACKS

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
PERMANENT CN/METRA ALIGNMENTS  
CROSS SECTIONS

SHT. 70 OF 88  
DATE 2/21/2008

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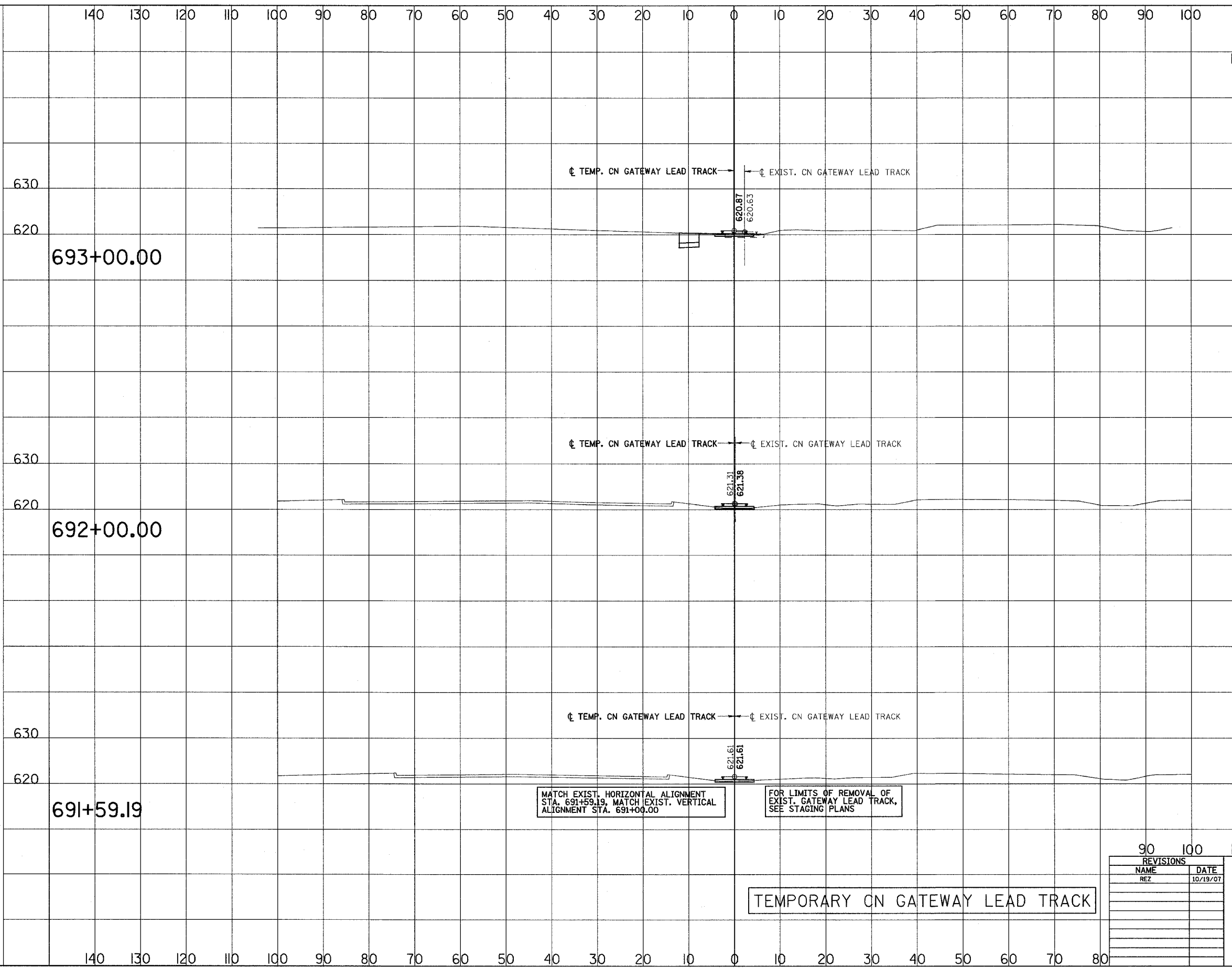


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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	245
STA.		TO STA.		
110		120 130		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 60E10		

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



MATCH EXIST. HORIZONTAL ALIGNMENT  
 STA. 691+59.19, MATCH EXIST. VERTICAL  
 ALIGNMENT STA. 691+00.00

FOR LIMITS OF REMOVAL OF  
 EXIST. GATEWAY LEAD TRACK,  
 SEE STAGING PLANS

TEMPORARY CN GATEWAY LEAD TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

SHT. 71 OF 88  
 DATE 2/21/2008

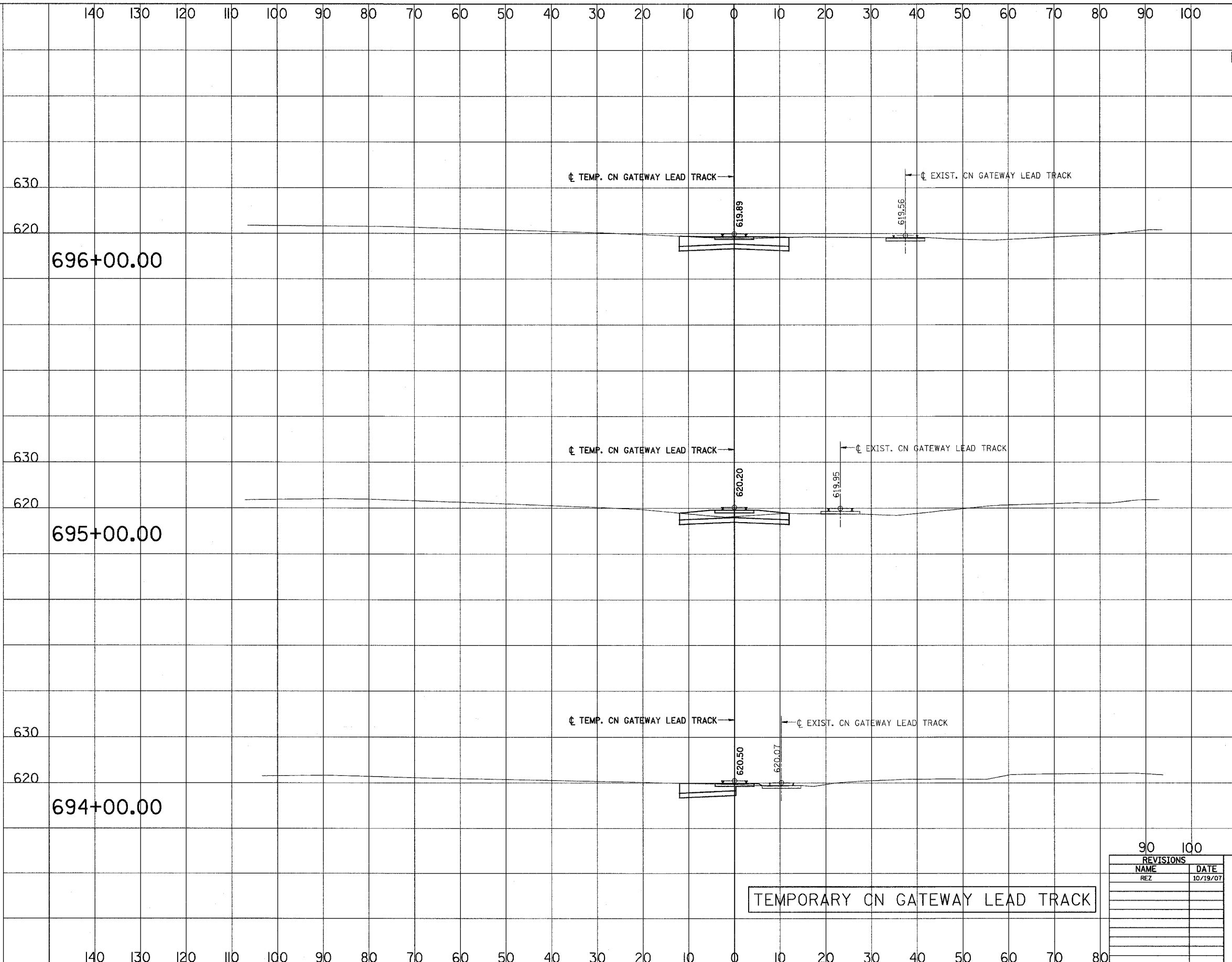
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	246
STA.		TO STA.		
110		120 130		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
				CONTRACT NO. 60E10

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



696+00.00

696+00.00

C = 67 F = 0

695+00.00

695+00.00

C = 46 F = 0

694+00.00

694+00.00

C = 53 F = 0

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

SHT. 72 OF 88  
 DATE 2/21/2008

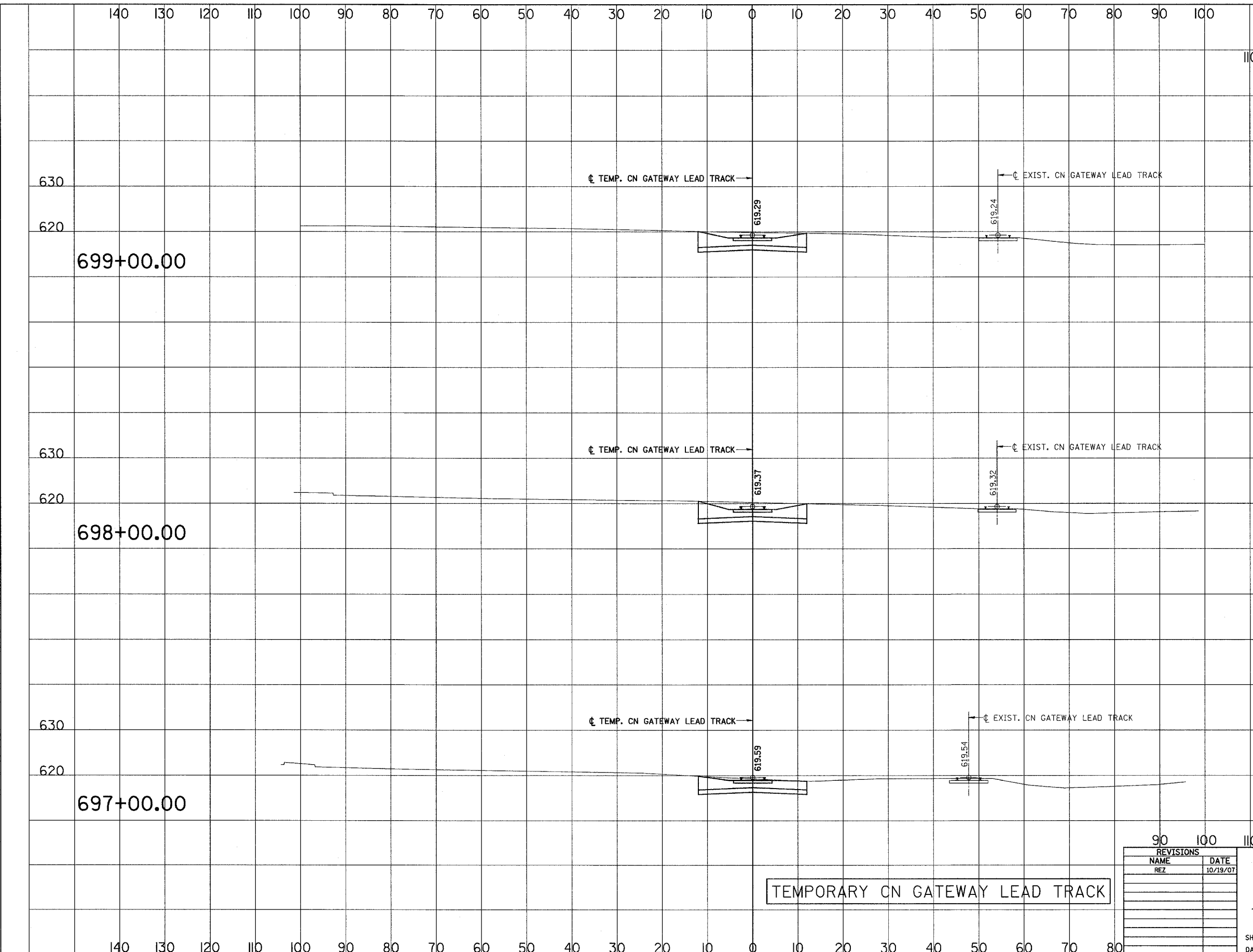
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	247
STA.		TO STA.		
110		120 130		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
				CONTRACT NO. 60E10

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



699+00.00

699+00.00

C = 97 F = 0

698+00.00

698+00.00

C = 105 F = 0

697+00.00

697+00.00

C = 82 F = 0

TEMPORARY CN GATEWAY LEAD TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

SHT. 73 OF 88  
 DATE 2/21/2008

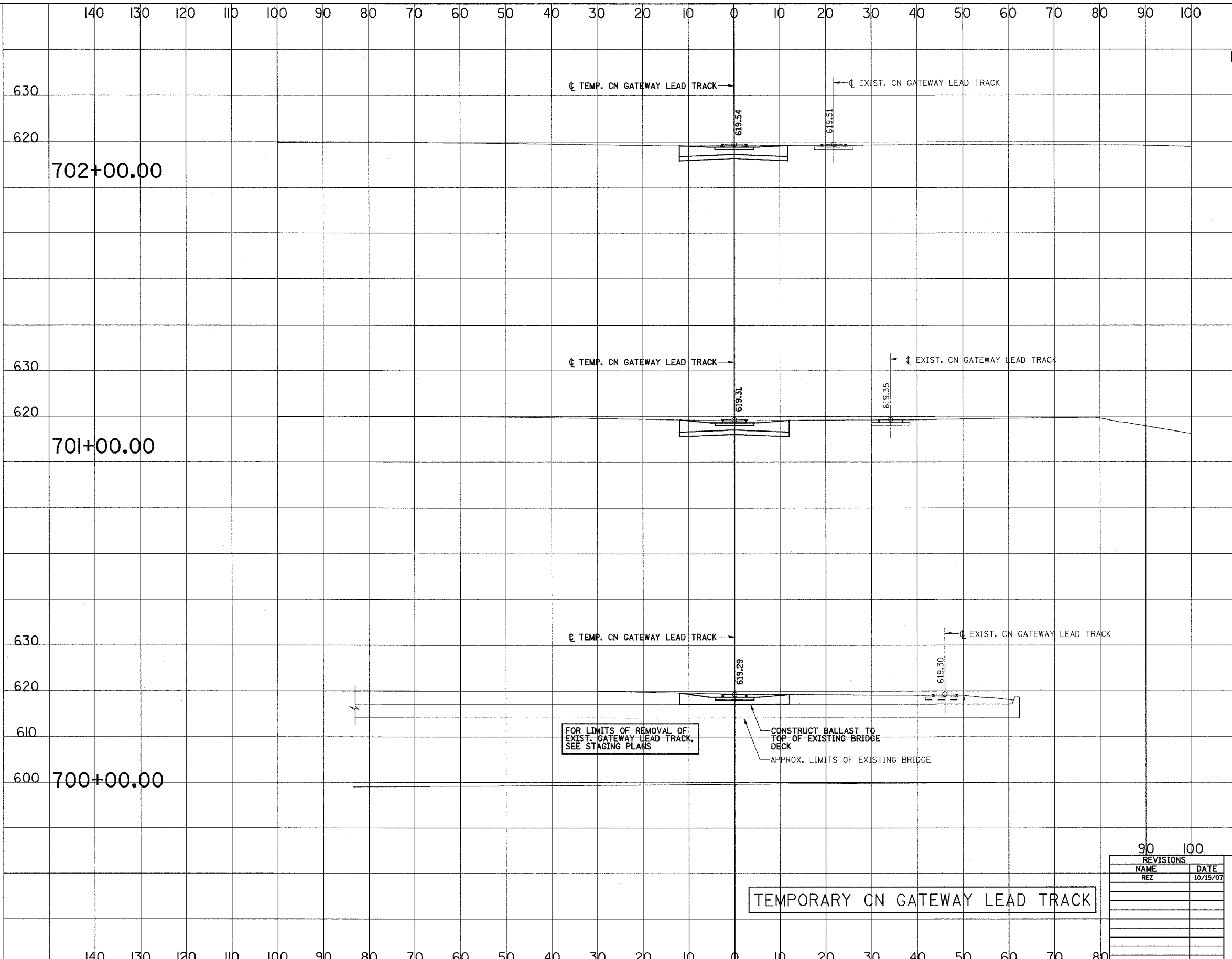
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	248
STA. 120		TO STA. 130		CONTRACT NO. 60E10
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



702+00.00  
 C = 74 F = 0

701+00.00  
 C = 80 F = 0

700+00.00  
 C = 53 F = 0

TEMPORARY CN GATEWAY LEAD TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

SHT. 74 OF 88  
 DATE 2/21/2008

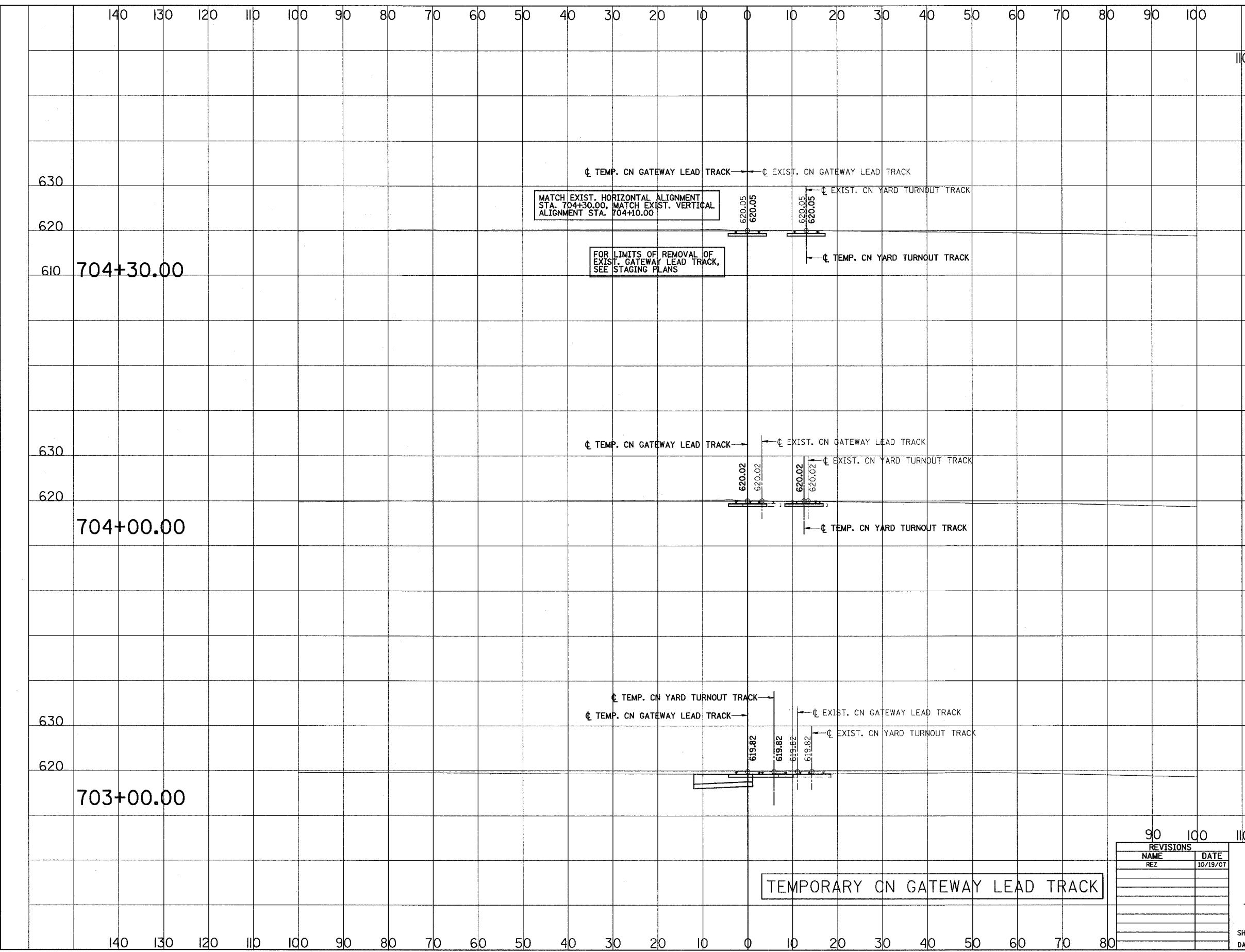
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	249
STA.		TO STA.		
110		120 130		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
		CONTRACT NO. 60E10		

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



TEMPORARY CN GATEWAY LEAD TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

SHT. 75 OF 88  
 DATE 2/21/2008

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 CHECKED BY RMS

703+00.00  
 C = 38 F = 0

703+00.00

704+00.00

704+00.00

704+30.00

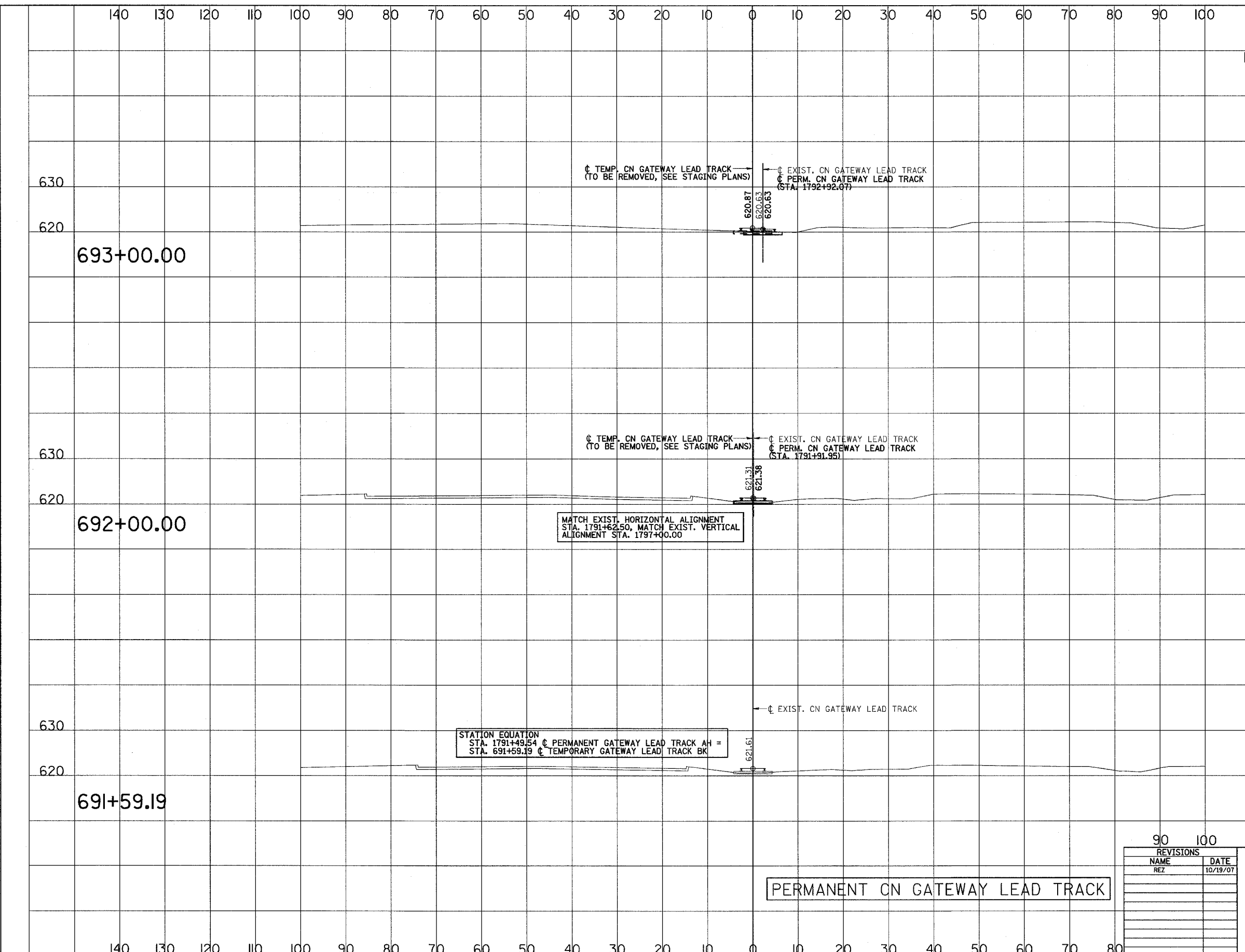
704+30.00

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	250
STA. 120		TO STA. 130		CONTRACT NO. 60E10
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

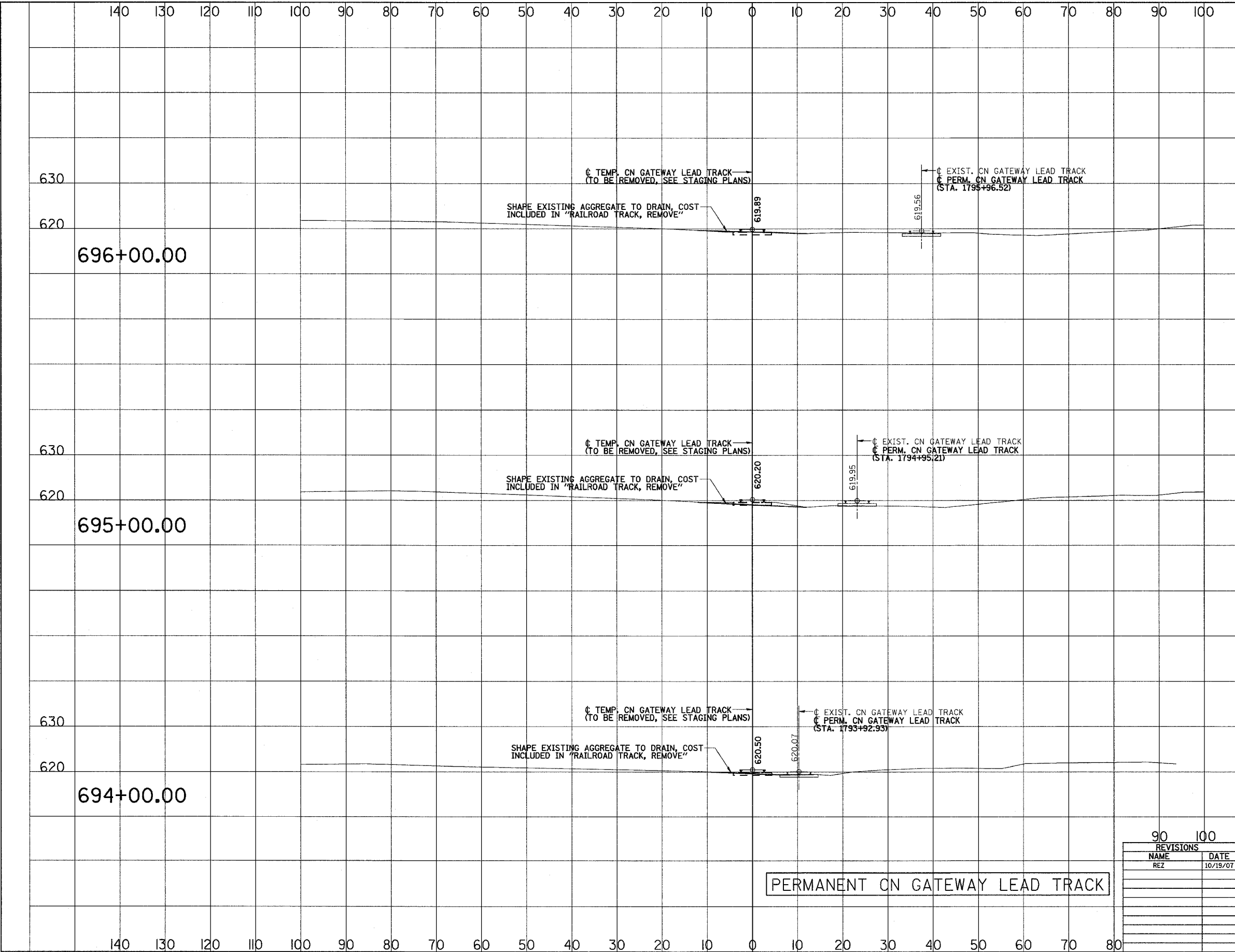
TRACK CONSTRUCTION  
 PERMANENT CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

SHT. 76 OF 88  
 DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	251
STA.		TO STA.		
110		120 130		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
				CONTRACT NO. 60E10

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'

PERMANENT CN GATEWAY LEAD TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

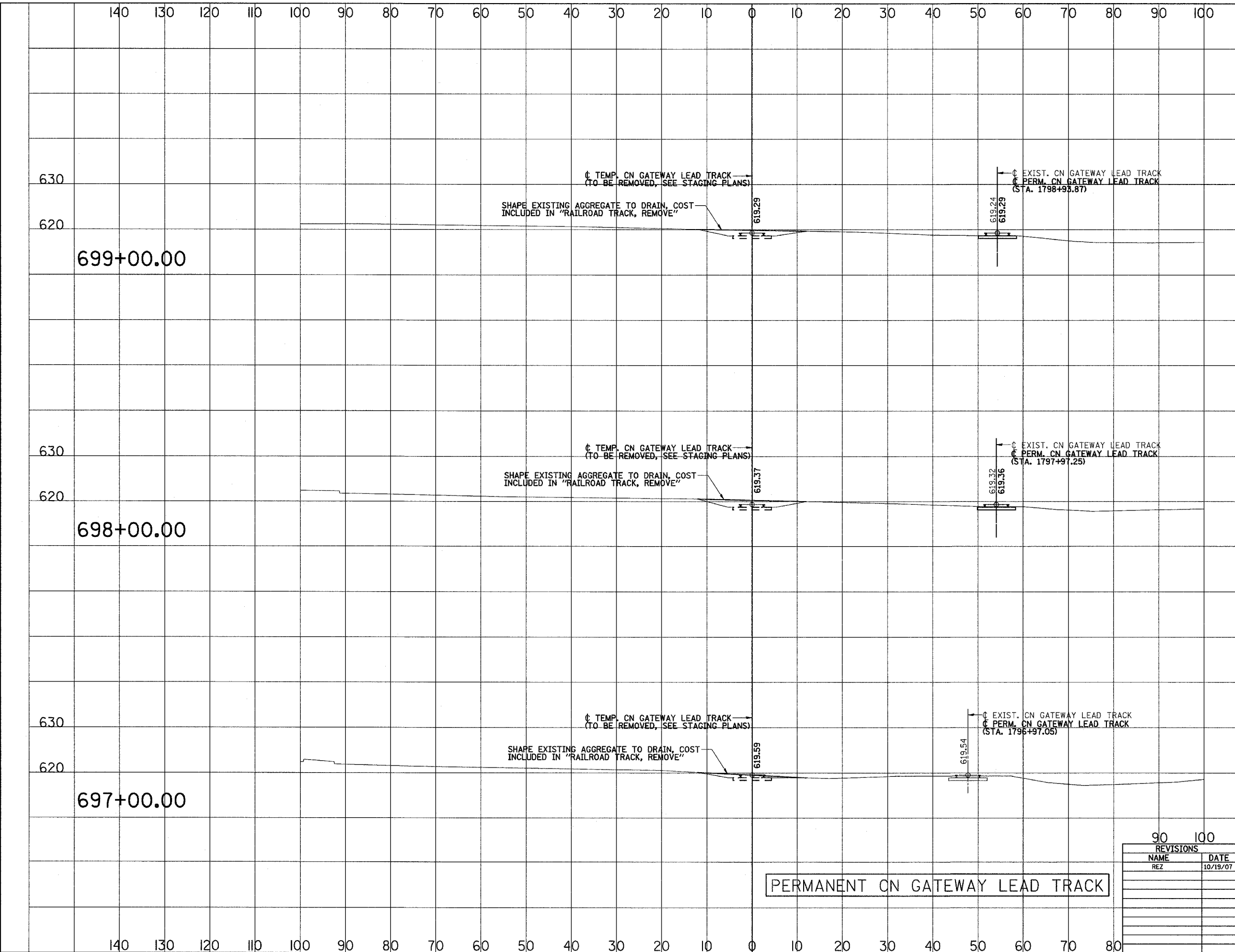
TRACK CONSTRUCTION  
 PERMANENT CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

SHT. 77 OF 88  
 DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	252
STA. 120		TO STA. 130		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 60E10		

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'

PERMANENT CN GATEWAY LEAD TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PERMANENT CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

SHT. 78 OF 88  
 DATE 2/21/2008

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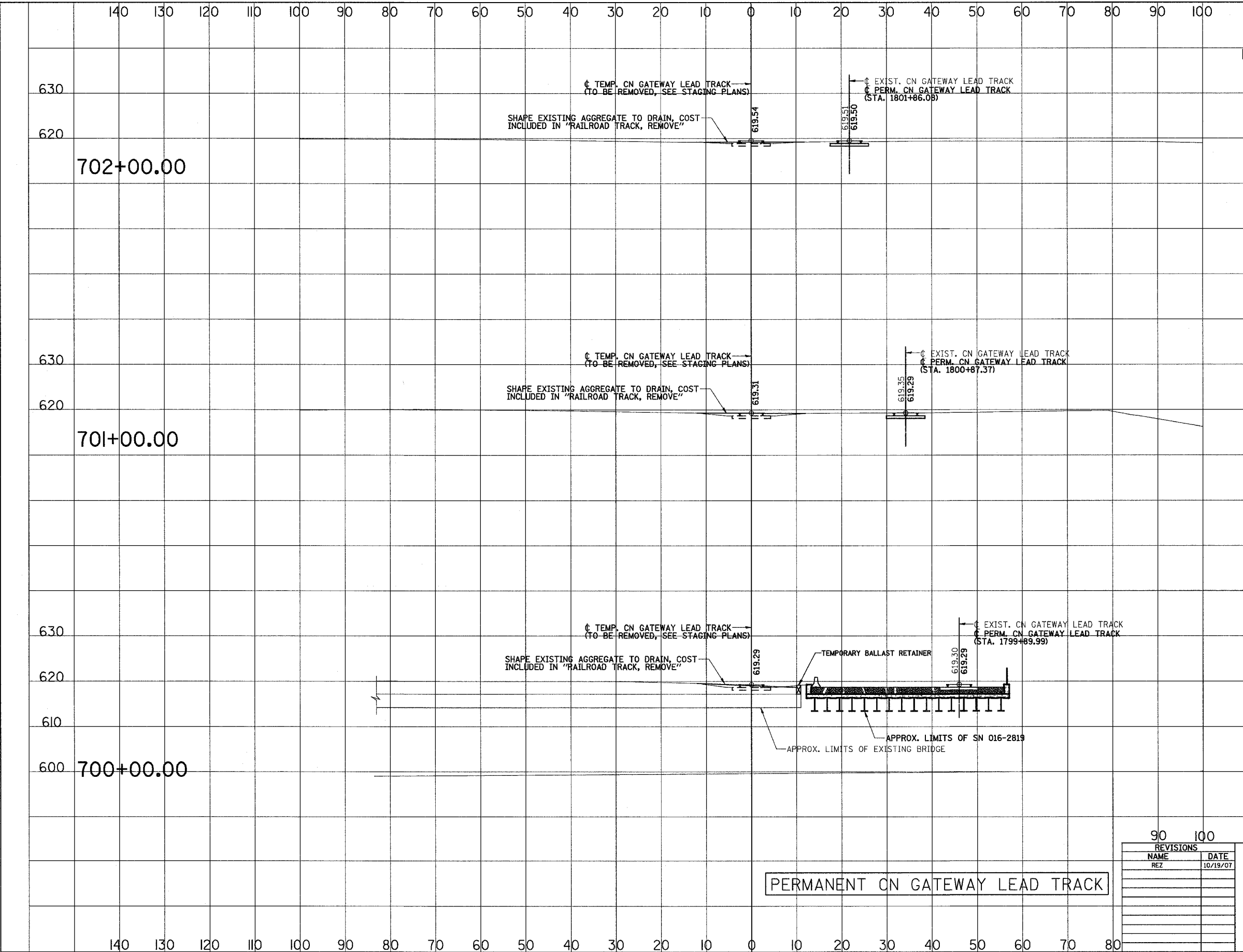


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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	253
STA. 120		TO STA. 130		CONTRACT NO. 60E10
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



PERMANENT CN GATEWAY LEAD TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

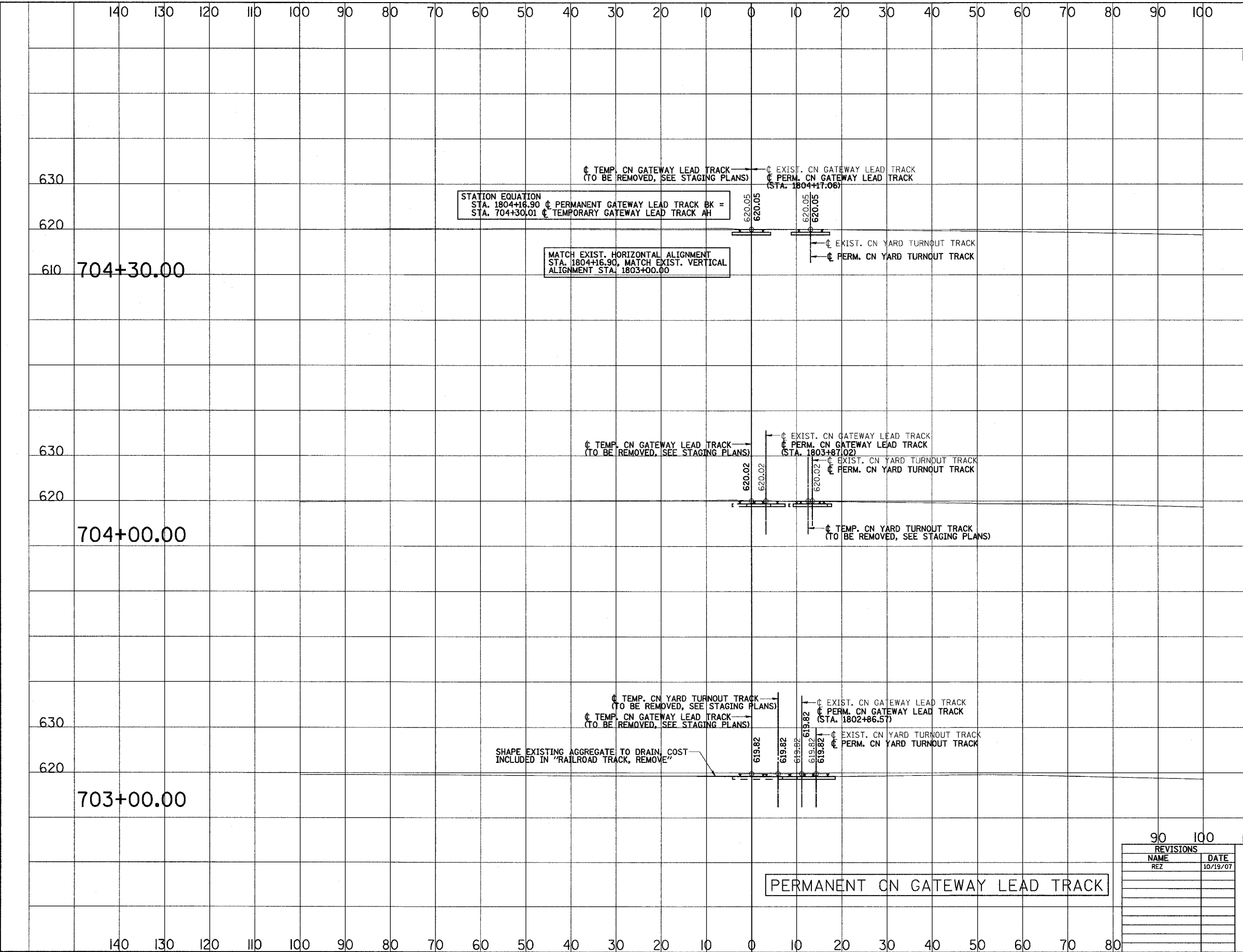
TRACK CONSTRUCTION  
 PERMANENT CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

SHT. 79 OF 88  
 DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	254
STA.		TO STA.		
120		130		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 60E10		

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'

STATION EQUATION  
 STA. 1804+16.90  $\phi$  PERMANENT GATEWAY LEAD TRACK BK =  
 STA. 704+30.01  $\phi$  TEMPORARY GATEWAY LEAD TRACK AH

MATCH EXIST. HORIZONTAL ALIGNMENT  
 STA. 1804+16.90, MATCH EXIST. VERTICAL  
 ALIGNMENT STA. 1803+00.00

PERMANENT CN GATEWAY LEAD TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PERMANENT CN GATEWAY LEAD TRACK  
 CROSS SECTIONS

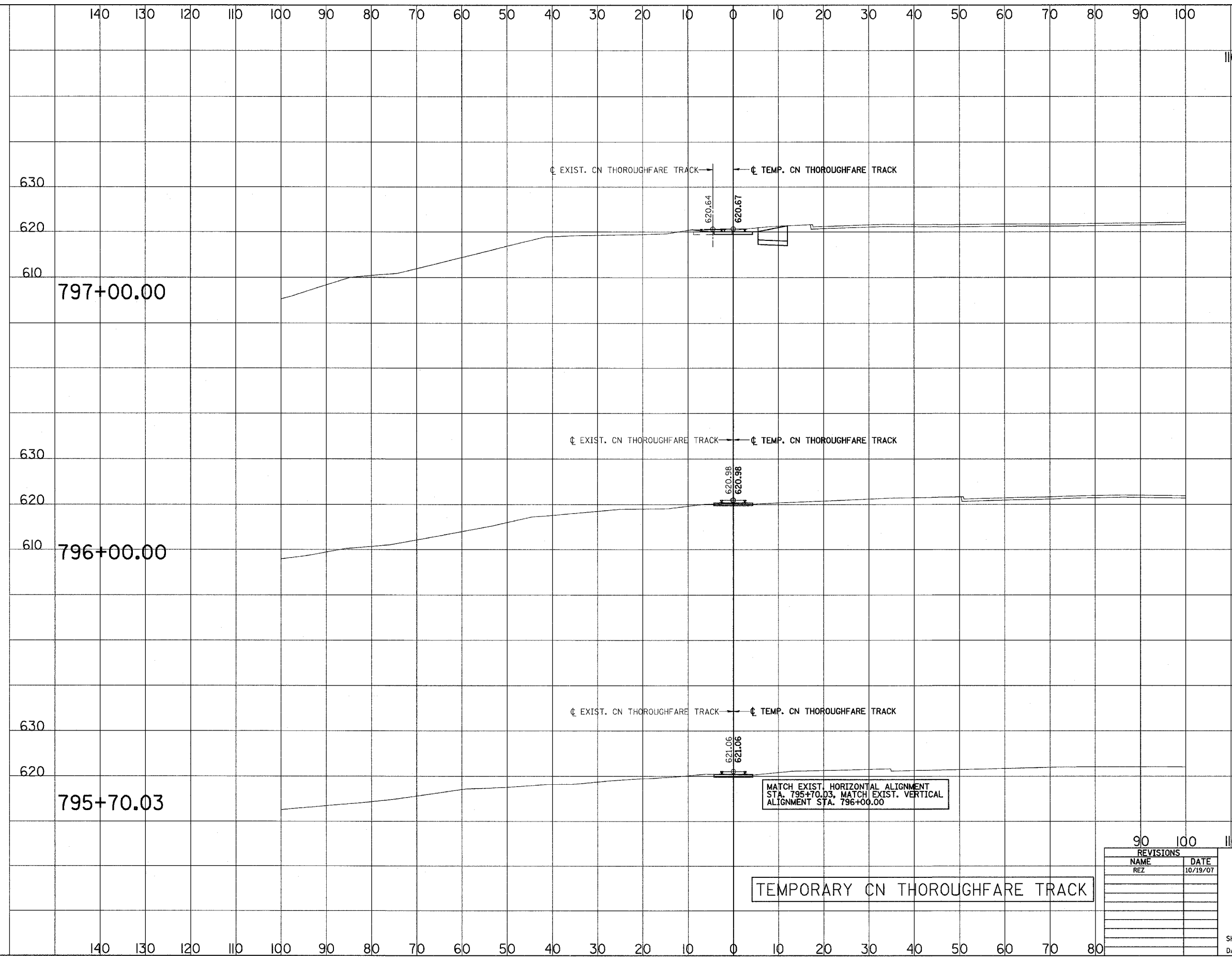
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	255
STA.		TO STA.		
120		130		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 60E10	

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



MATCH EXIST. HORIZONTAL ALIGNMENT  
 STA. 795+70.03. MATCH EXIST. VERTICAL  
 ALIGNMENT STA. 796+00.00

TEMPORARY CN THOROUGHFARE TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN THOROUGHFARE  
 CROSS SECTIONS

SHT. 81 OF 88  
 DATE 2/21/2008

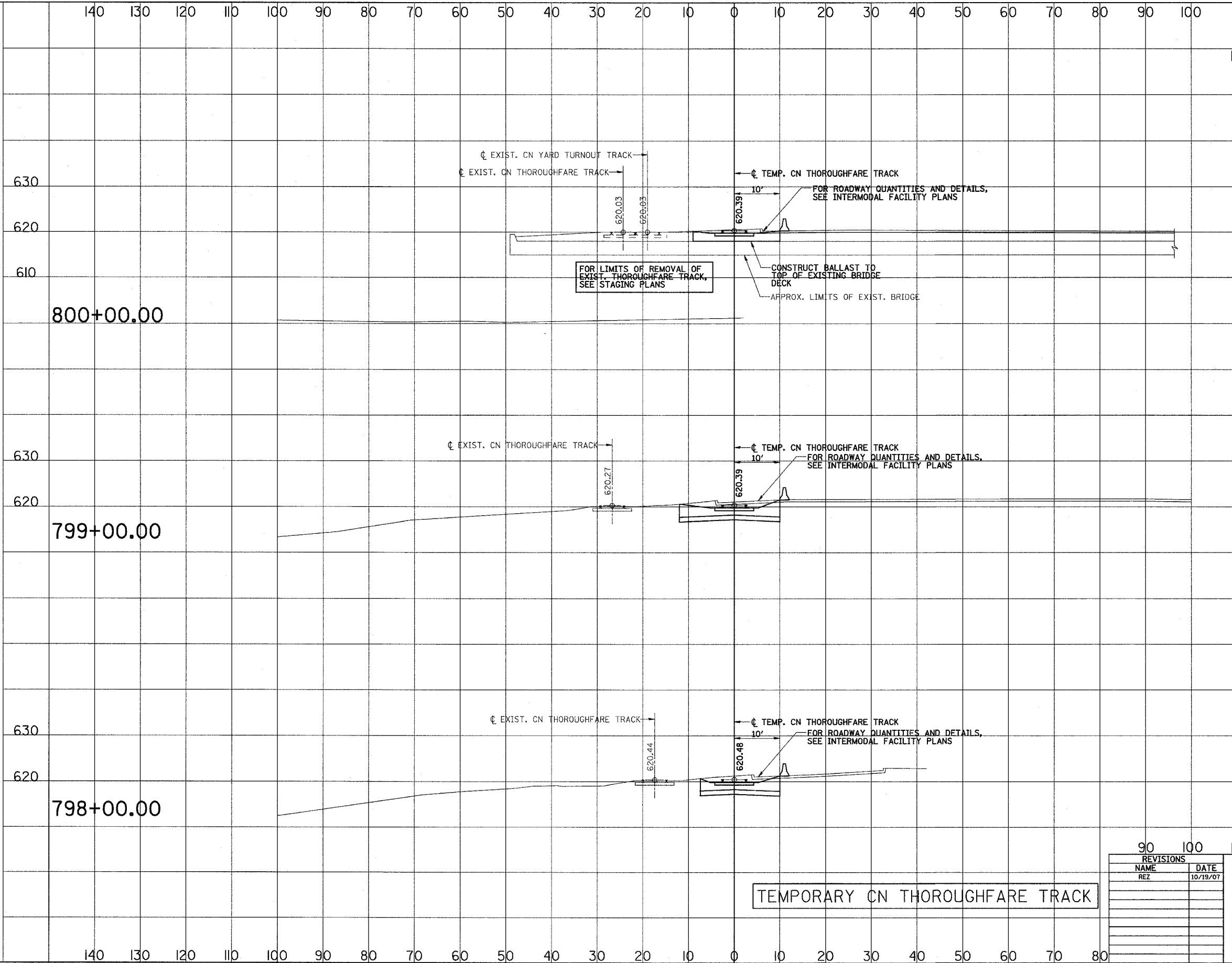
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	256
STA.	TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	
110	120	130	CONTRACT NO. 60E10	

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



800+00.00

800+00.00

C = 44 F = 0

799+00.00

799+00.00

C = 84 F = 0

798+00.00

798+00.00

C = 67 F = 0

TEMPORARY CN THOROUGHFARE TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN THOROUGHFARE  
 CROSS SECTIONS

SHT. 82 OF 88  
 DATE 2/21/2008

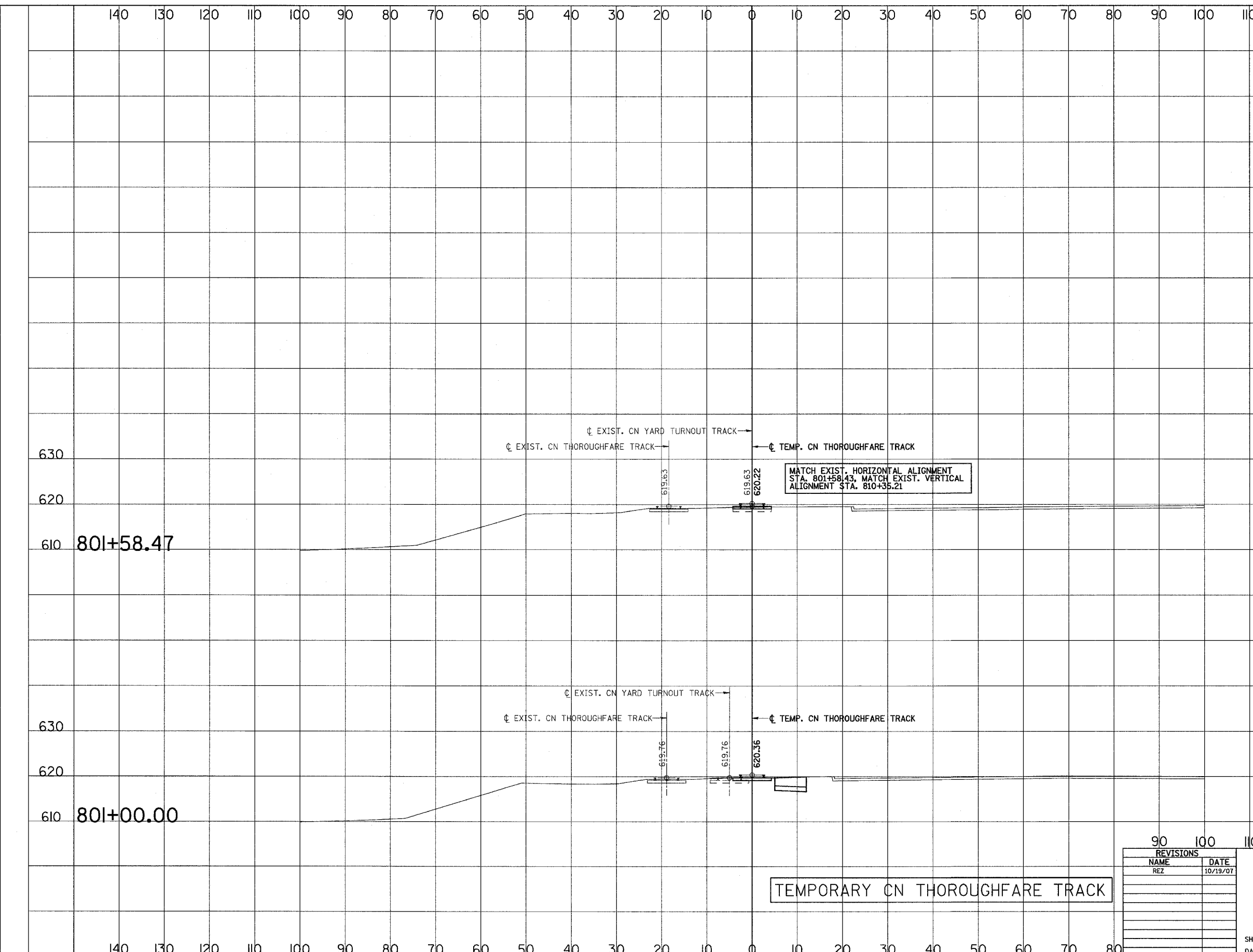
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	257
STA. 120		TO STA. 130		CONTRACT NO. 60E10
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 TEMPORARY CN THOROUGHFARE  
 CROSS SECTIONS

SHT. 83 OF 88  
 DATE 2/21/2008

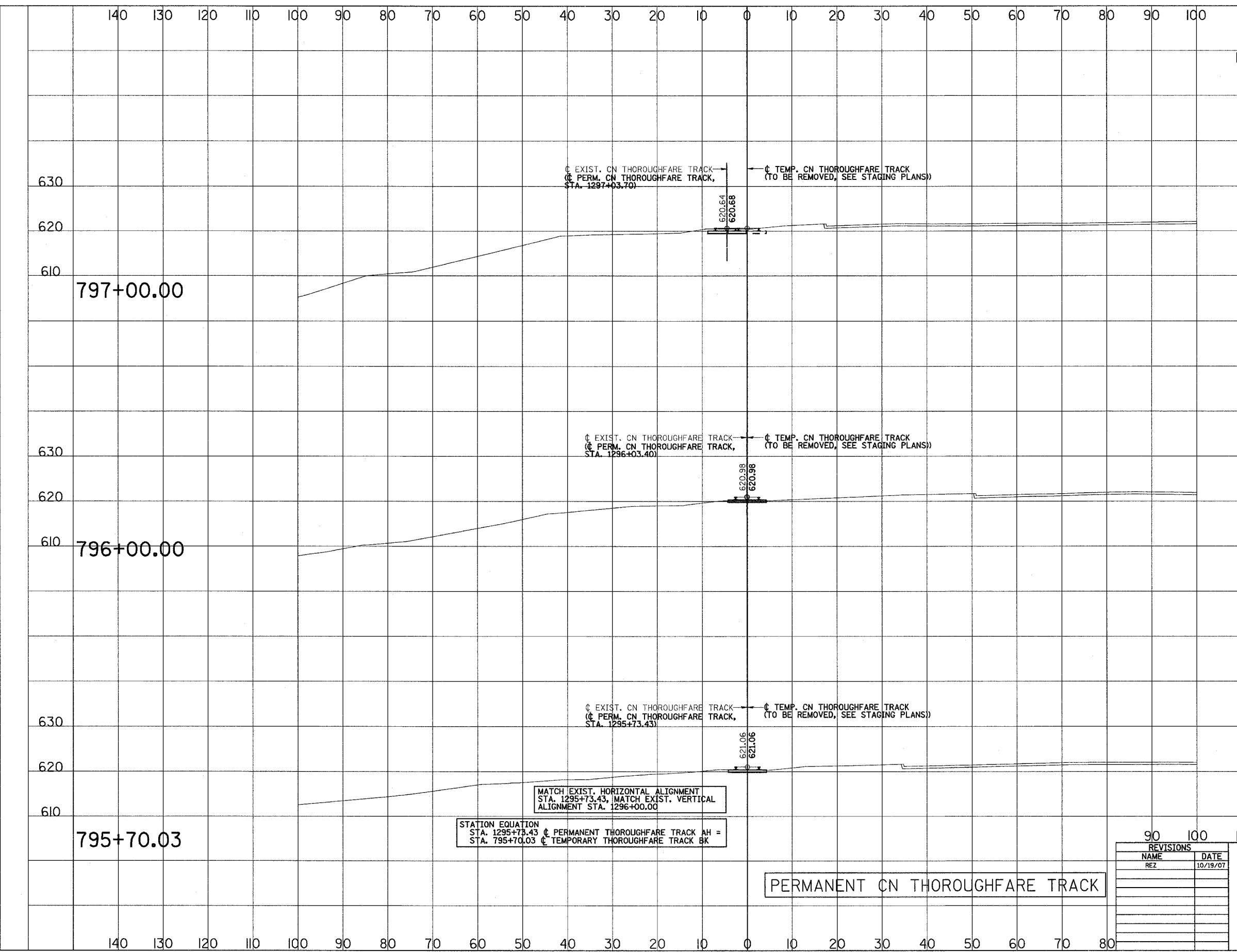
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	258
STA.		TO STA.		
120		130		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
				CONTRACT NO. 60E10

SCALE  
HORIZ.: 1"=10'  
VERT.: 1"=10'



STATION EQUATION  
STA. 1295+73.43 @ PERMANENT THOROUGHFARE TRACK AH =  
STA. 795+70.03 @ TEMPORARY THOROUGHFARE TRACK BK

MATCH EXIST. HORIZONTAL ALIGNMENT  
STA. 1295+73.43, MATCH EXIST. VERTICAL  
ALIGNMENT STA. 1296+00.00

PERMANENT CN THOROUGHFARE TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
PERMANENT CN THOROUGHFARE  
CROSS SECTIONS

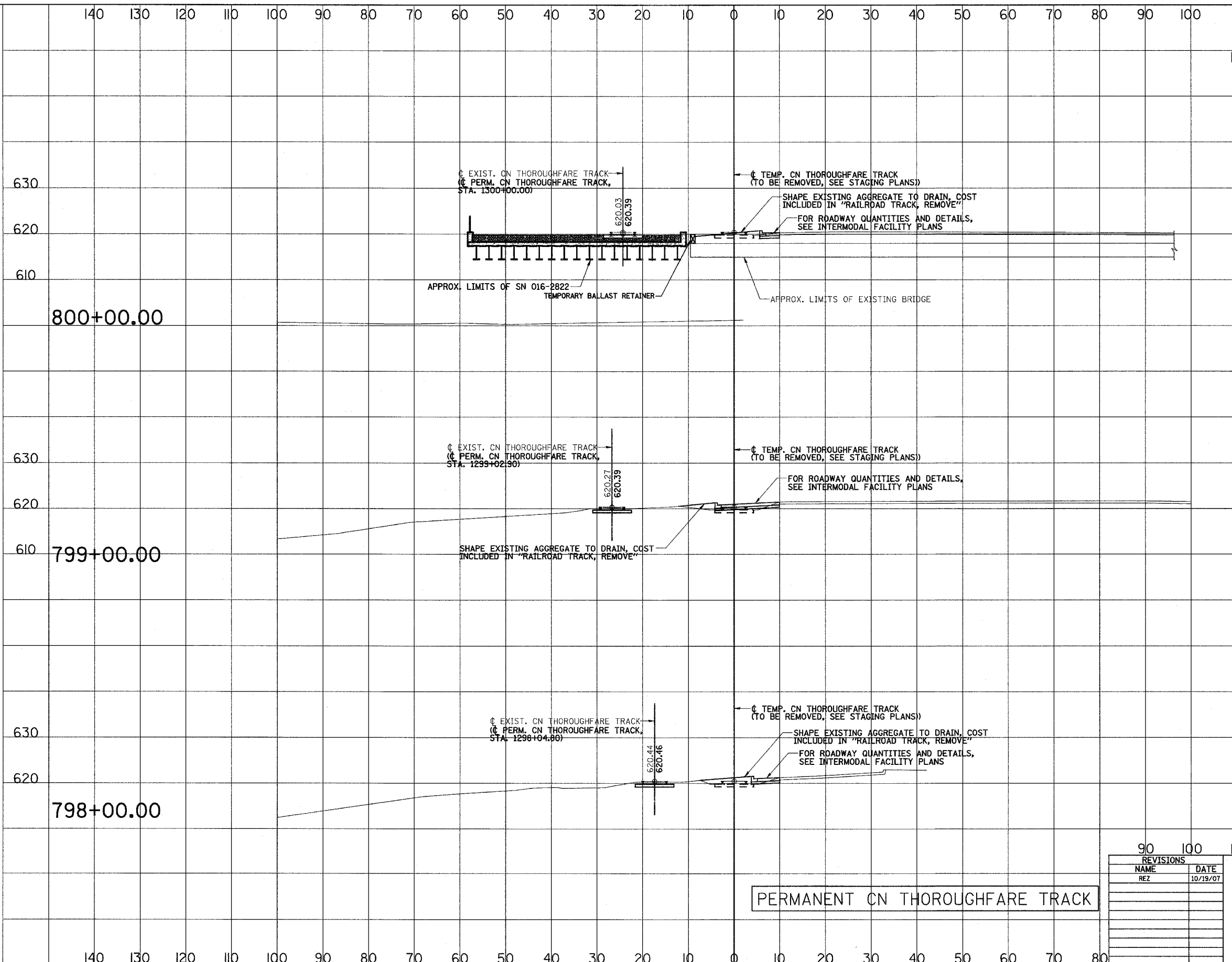
SHT. 84 OF 88  
DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	259
STA. 120		TO STA. 130		CONTRACT NO. 60E10
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'



PERMANENT CN THOROUGHFARE TRACK

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

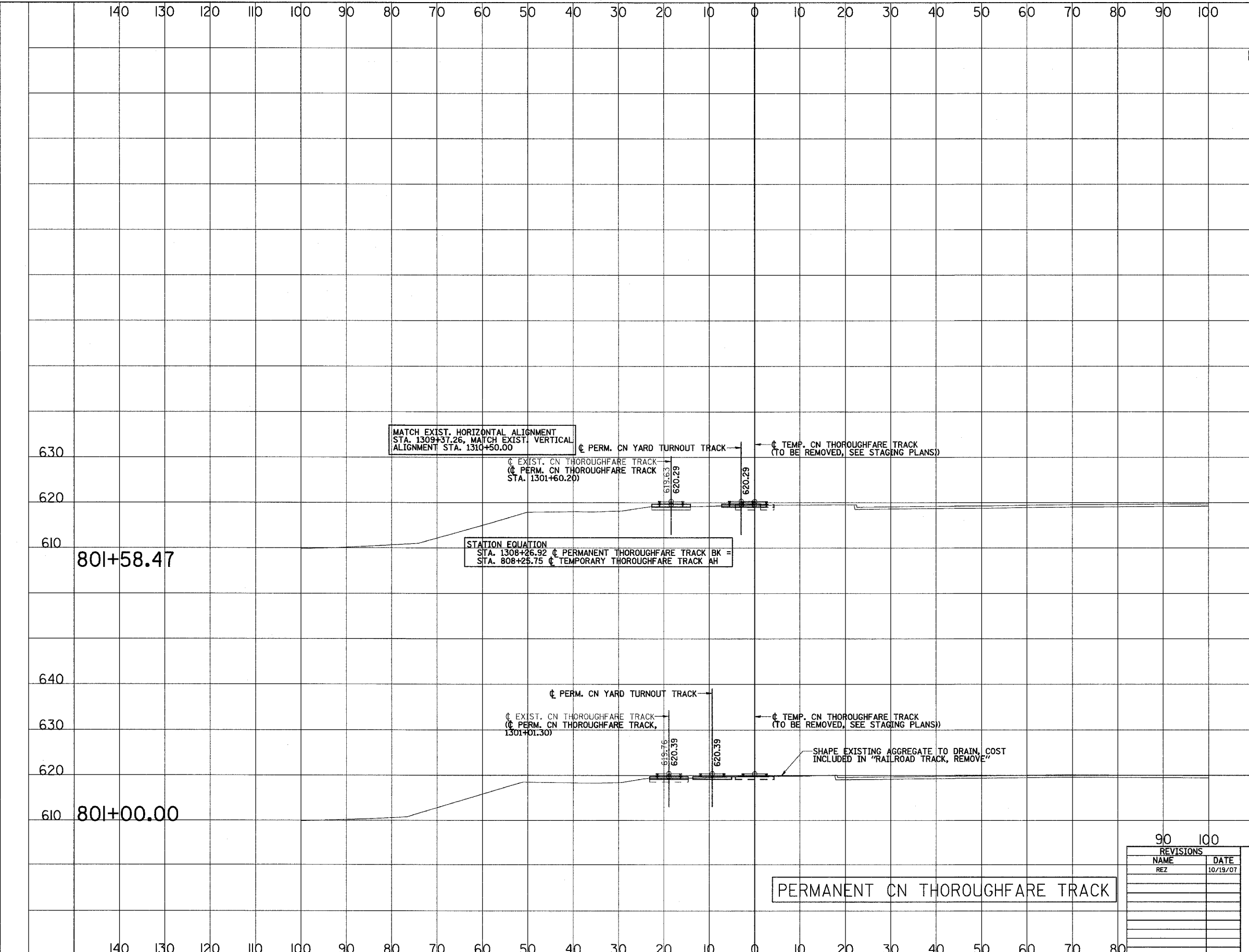
TRACK CONSTRUCTION  
 PERMANENT CN THOROUGHFARE  
 CROSS SECTIONS

SHT. 85 OF 88  
 DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	260
STA.		TO STA.		
120		130		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

SCALE  
 HORZ.: 1"=10'  
 VERT.: 1"=10'

REVISIONS	
NAME	DATE
REZ	10/19/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
 PERMANENT CN THOROUGHFARE  
 CROSS SECTIONS

SHT. 86 OF 88  
 DATE 2/21/2008

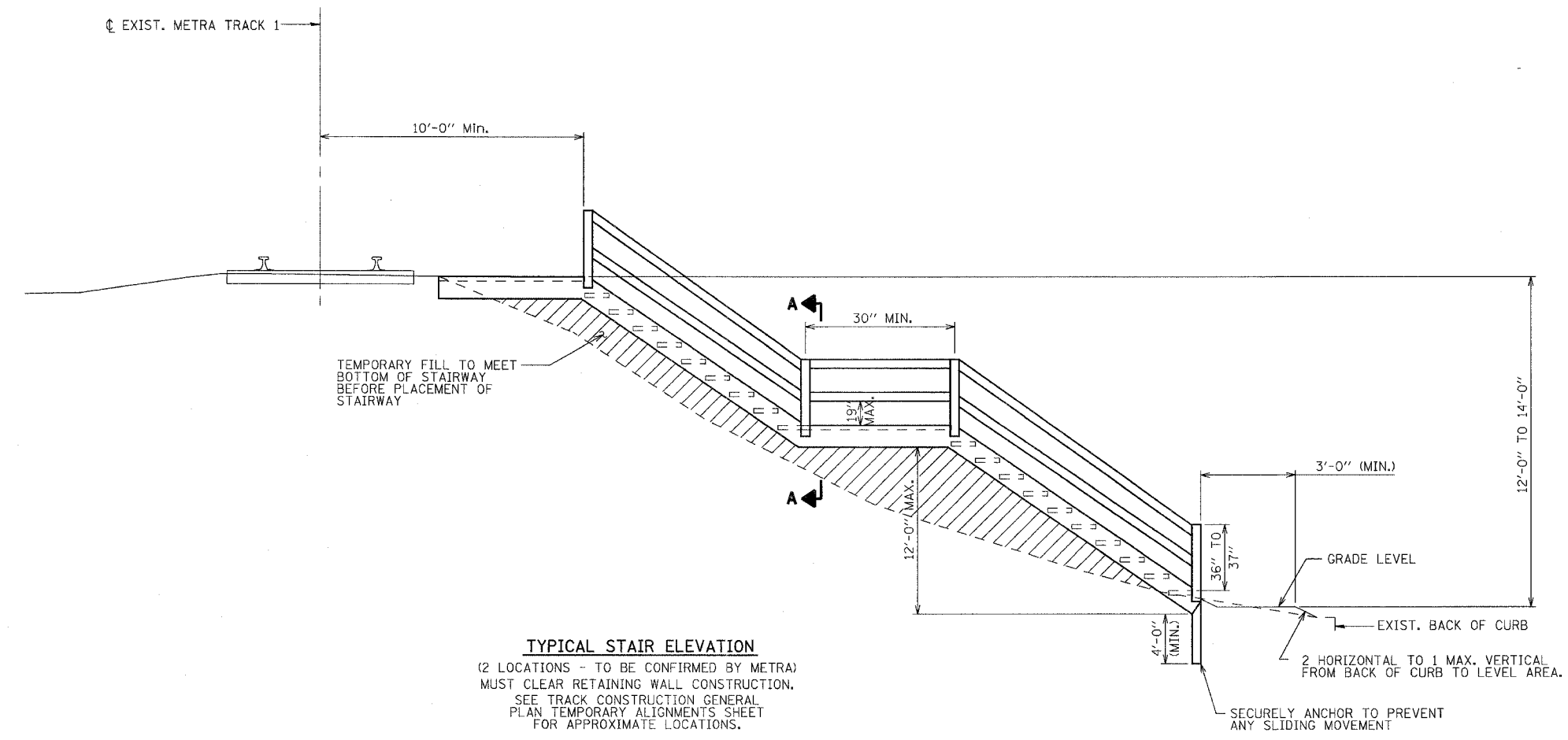
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PERMANENT CN THOROUGHFARE TRACK

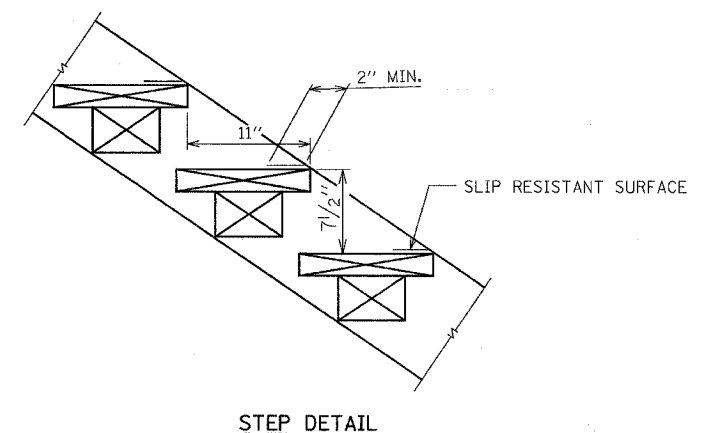


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	261
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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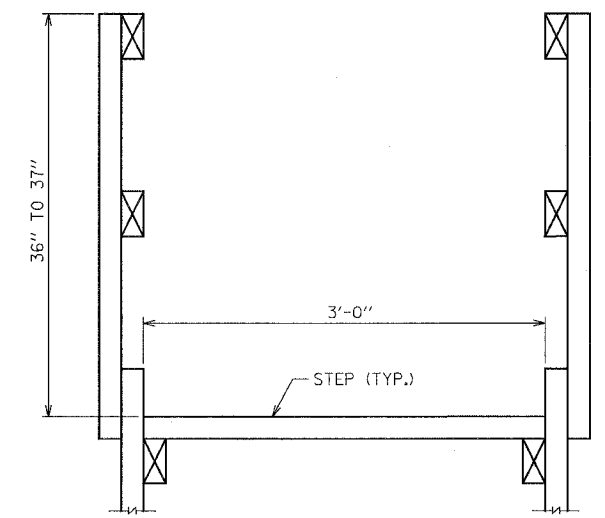


**TYPICAL STAIR ELEVATION**  
 (2 LOCATIONS - TO BE CONFIRMED BY METRA)  
 MUST CLEAR RETAINING WALL CONSTRUCTION.  
 SEE TRACK CONSTRUCTION GENERAL  
 PLAN TEMPORARY ALIGNMENTS SHEET  
 FOR APPROXIMATE LOCATIONS.



**STEP DETAIL**

NOTE: ALL WORK SHOWN IS INCLUDED IN  
 PAY ITEM "TEMPORARY STAIRWAY  
 ACCESS TO METRA TRACKS"



**SECTION A-A**

NOTES:  
 1. FOR ADDITIONAL REQUIREMENTS, SEE  
 SPECIAL PROVISION "TEMPORARY  
 STAIRWAY ACCESS TO METRA TRACKS"

REVISIONS	
NAME	DATE

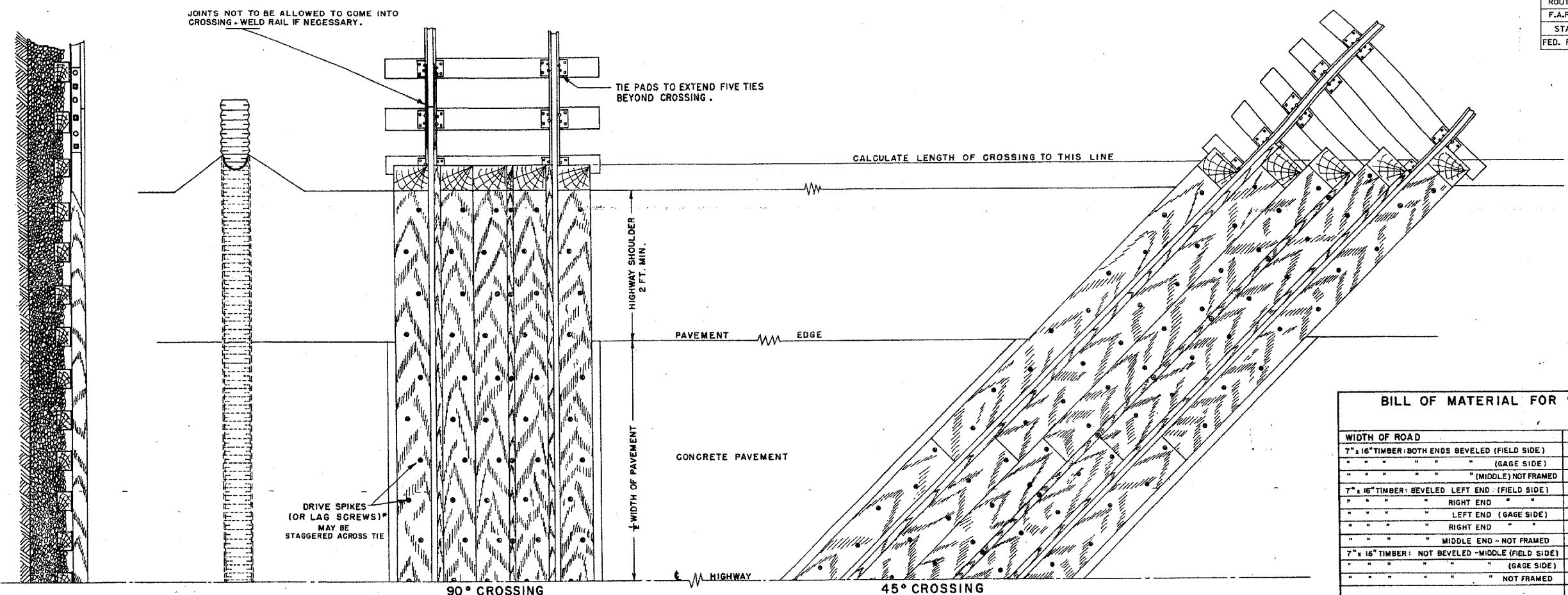
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

**TRACK CONSTRUCTION  
 CONSTRUCTION ACCESS STAIR DETAILS**

SHT. 87 OF 88  
 DATE 2/21/2008

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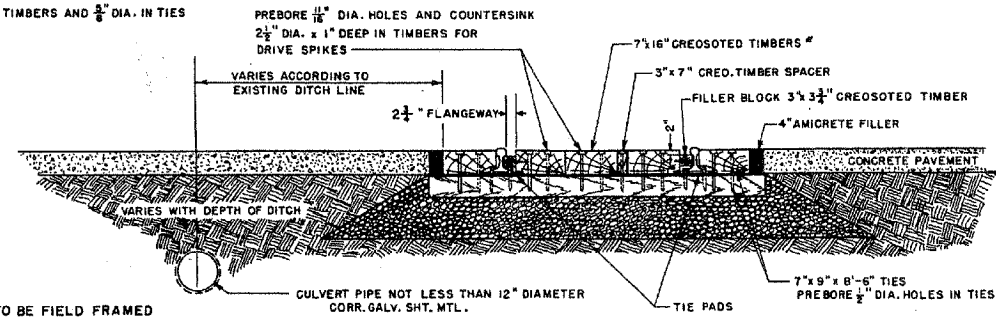


**BILL OF MATERIAL FOR 90° CROSSING**

SECTION OF RAIL	11228-11525				13128-13225			
	16'	24'	32'	40'	16'	24'	32'	40'
7" x 16" TIMBER: BOTH ENDS BEVELED (FIELD SIDE)	2				2			
" " " " (GAGE SIDE)	2				2			
" " " " (MIDDLE) NOT FRAMED	1				1			
7" x 16" TIMBER: BEVELED LEFT END (FIELD SIDE)	2	2	2		2	2	2	
" " " " RIGHT END	2	2	2		2	2	2	
" " " " LEFT END (GAGE SIDE)	2	2	2		2	2	2	
" " " " RIGHT END	2	2	2		2	2	2	
" " " " MIDDLE END - NOT FRAMED	2	2	2		2	2	2	
7" x 16" TIMBER: NOT BEVELED - MIDDLE (FIELD SIDE)				2				2
" " " " (GAGE SIDE)				2				2
" " " " NOT FRAMED				1				1
3" x 7" TIMBER (SPACER) (LIN. FT.)	16	24	32	40	16	24	32	40
3" x 3 1/2" FLANGWAY FILLER BLOCK (LIN. FT.)	32	48	64	80	32	48	64	80
DRIVE SPIKES (OR LAG SCREWS) (EA.)	55	80	105	130	55	80	105	130
TIES 7" x 9" x 8'-6" (EA.)	11	16	21	26	11	16	21	26
TIE PLATES & PADS 13" PLATES	22	32	42	52				
" " PADS	42	52	62	72				
14" PLATES					22	32	42	52
" " PADS					42	52	62	72
SPIKES, STD. TRACK (EA.)	44	64	84	104	44	64	84	104
SHIM: 1/2" x 9" BOARD (1/2" IN. PAD) (LIN. FT.)	70	102	133	165				
1 1/2" x 9"					68	99	130	161
AMICRETE FILLER* (CU. YD.)	.25	.30	.50	.60	.25	.30	.50	.60
CULVERT PIPE (ADD FOR SLOPES) (FT.)	18	26	34	42	18	26	34	42
ALTERNATE AMICRETE RAIL FILLER (CU. YD.)	.70	.90	1.5	2.0	.70	.90	1.5	2.0

NOTE: FOR 9020 RAIL AND UNDER-USE 6" x 16" TIMBERS WITHOUT SHIMS.

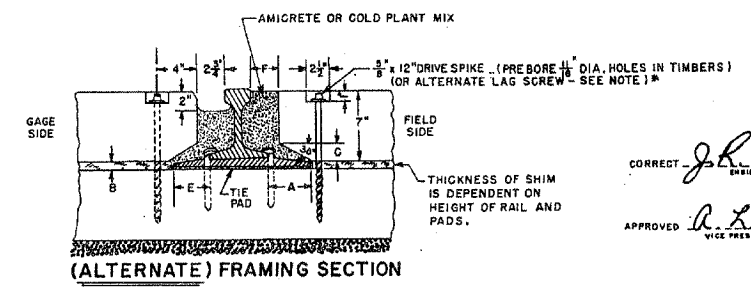
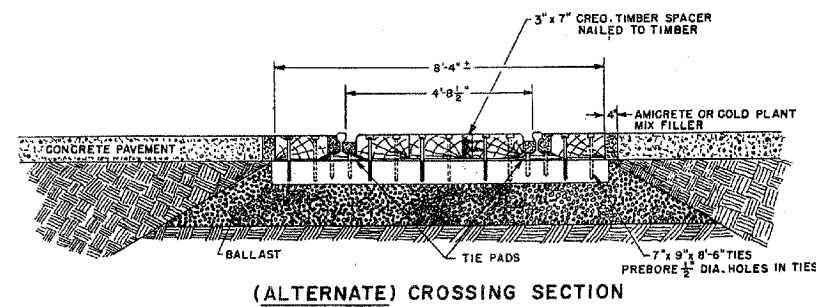
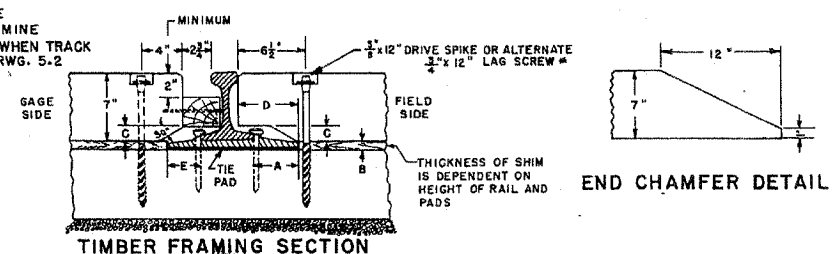
\* WHEN 3/4" x 12" LAG SCREW IS USED AS AN ALTERNATE: PREBORE 1/2" DIA. HOLES IN TIMBERS AND 3/8" DIA. IN TIES



NOTE: ALL TIMBERS TO BE FIELD FRAMED AND BORED. SWAB HOLES AND CUT ENDS WITH CREOSOTE.

A SEPARATE INVESTIGATION WILL BE MADE AT EACH CROSSING TO DETERMINE PROPER DRAINAGE REQUIREMENTS. WHEN TRACK DRAINAGE IS NECESSARY - REFER TO DRWG. 5-2

RAIL	112-115 #	131-132 #
A	4 1/2"	4 1/2"
B	8"	1 1/2"
C	1 1/2"	1 1/2"
D	5 1/2"	6"
E	3 1/2"	3 1/2"
F	3"	2 1/2"



CORRECT *J.H. Miller*  
ENGINEER, ILL. ST. R.R.

APPROVED *D.L. Barnes*  
VICE PRES. & CHIEF ENGINEER

**ILLINOIS CENTRAL GULF RAILROAD**  
**STANDARD**  
**SOLID TIMBER ROAD CROSSING**  
**(USING 7" x 16" TIMBERS)**

OFFICE OF VICE PRES. & CHIEF ENGINEER CHICAGO, ILL.  
SCALE: AS NOTED MAY 20, 1970  
REV. FEB. 10, 1971

FILE: D-851 DRWG. 5.17

NOTE: CONTRACTOR SHALL FURNISH TIMBERS AS SHOWN FOR USE BY METRA IN CONSTRUCTING TEMPORARY GRADE CROSSINGS. SEE SPECIAL PROVISION "PROTECTION OF RAILWAY INTEREST", SECTION 4 "CROSSING OF IN-SERVICE TRACKS" FOR DETAILS. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

TRACK CONSTRUCTION  
SOLID TIMBER ROAD CROSSING

SHT. 88 OF 88 DRAWN BY SOI  
DATE 2/21/2008 CHECKED BY MAD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	263
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 60E10				

**LEGEND**

—E— METRA POWER  
 BURIED UNDERGROUND  
 IN 2-4" RIGID GALV. STEEL CONDUITS  
 1- METRA 4160 V, 4/C #2AWG  
 1- METRA 2400 V, 4/C #2AWG

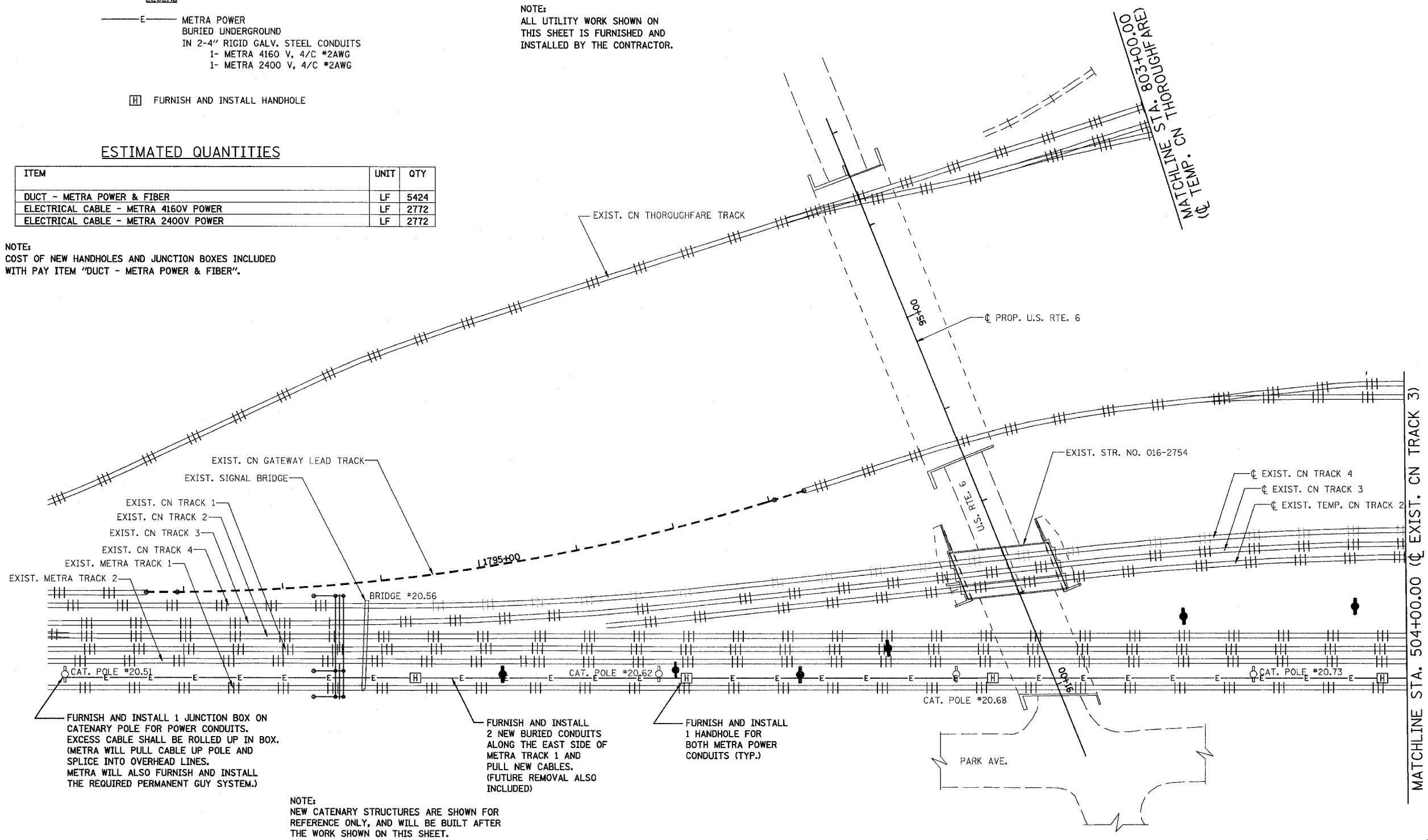
[H] FURNISH AND INSTALL HANDHOLE

**NOTE:**  
 ALL UTILITY WORK SHOWN ON  
 THIS SHEET IS FURNISHED AND  
 INSTALLED BY THE CONTRACTOR.

**ESTIMATED QUANTITIES**

ITEM	UNIT	QTY
DUCT - METRA POWER & FIBER	LF	5424
ELECTRICAL CABLE - METRA 4160V POWER	LF	2772
ELECTRICAL CABLE - METRA 2400V POWER	LF	2772

**NOTE:**  
 COST OF NEW HANDHOLES AND JUNCTION BOXES INCLUDED  
 WITH PAY ITEM "DUCT - METRA POWER & FIBER".



FURNISH AND INSTALL 1 JUNCTION BOX ON  
 CATENARY POLE FOR POWER CONDUITS.  
 EXCESS CABLE SHALL BE ROLLED UP IN BOX.  
 (METRA WILL PULL CABLE UP POLE AND  
 SPLICE INTO OVERHEAD LINES.  
 METRA WILL ALSO FURNISH AND INSTALL  
 THE REQUIRED PERMANENT GUY SYSTEM.)

FURNISH AND INSTALL  
 2 NEW BURIED CONDUITS  
 ALONG THE EAST SIDE OF  
 METRA TRACK 1 AND  
 PULL NEW CABLES.  
 (FUTURE REMOVAL ALSO  
 INCLUDED)

FURNISH AND INSTALL  
 1 HANDHOLE FOR  
 BOTH METRA POWER  
 CONDUITS (TYP.)

**NOTE:**  
 NEW CATENARY STRUCTURES ARE SHOWN FOR  
 REFERENCE ONLY, AND WILL BE BUILT AFTER  
 THE WORK SHOWN ON THIS SHEET.

TO AVOID CONFLICTS WITH PROPOSED FOOTINGS,  
 THESE CONDUITS MUST BE PLACED IMMEDIATELY  
 ADJACENT TO THE EAST EDGE OF THE TIES OF TRACK 1.  
 PROVIDE METRA AS-BUILT INFORMATION  
 CONCERNING ACTUAL LOCATION OF THESE LINES.

COORDINATE WITH METRA TO CONFIRM THE LOCATION  
 OF RAILROAD SIGNAL LINES BURIED ALONG THE EAST  
 SIDE OF TRACK 1. EXERCISE CAUTION TO AVOID THESE LINES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA & CN OVER 159TH STREET

METRA UTILITIES  
 AC & SCADA ROUTING - PHASE 1

SHT. 1 OF 5  
 DATE 2/21/2008

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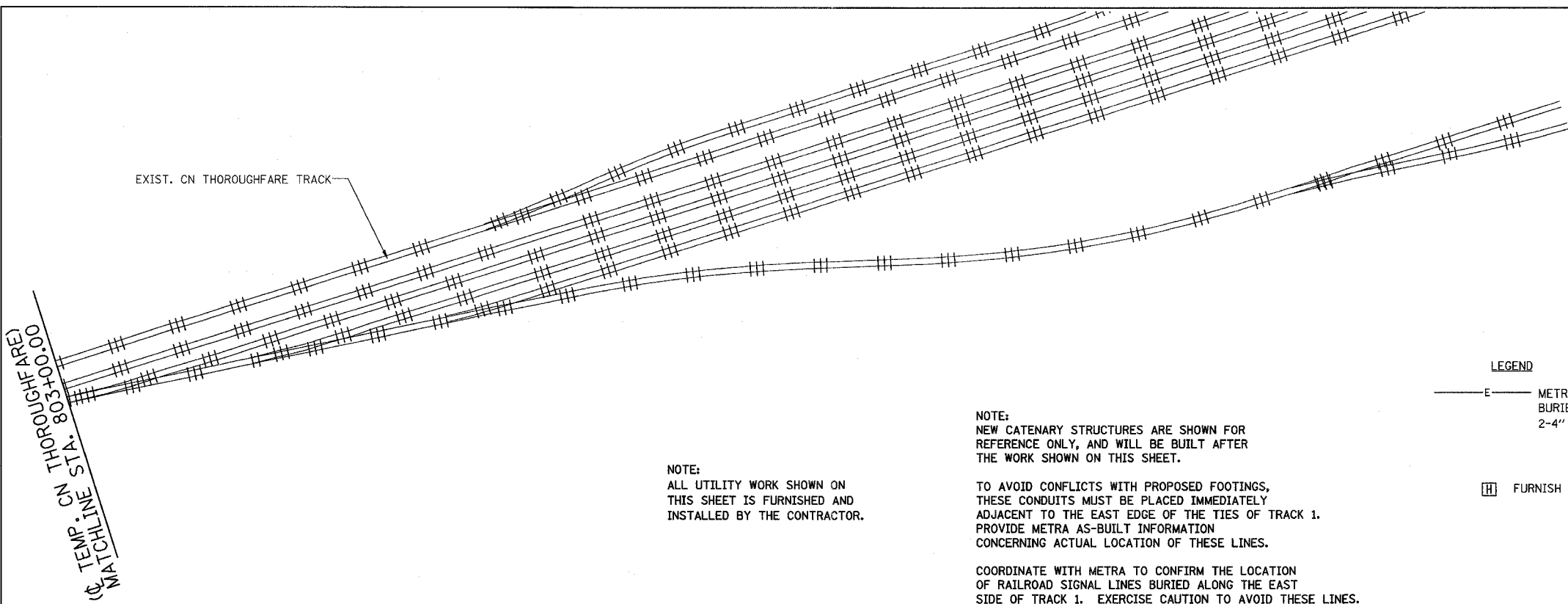
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	264
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

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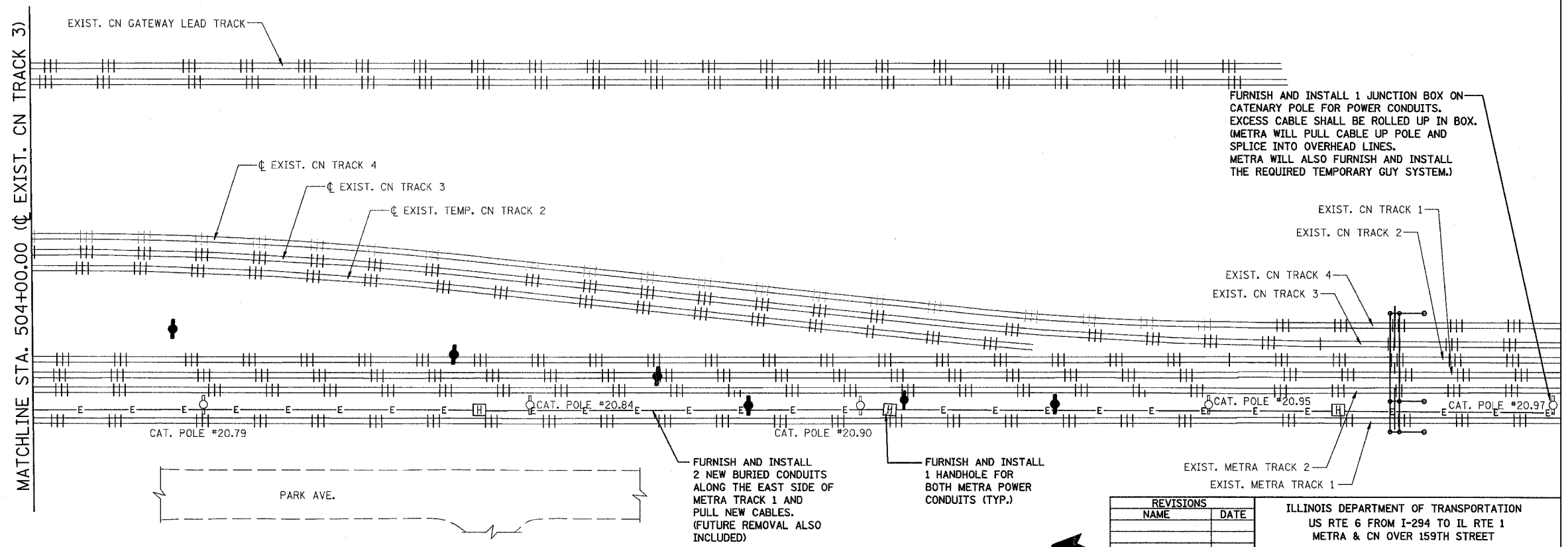
**NOTE:**  
ALL UTILITY WORK SHOWN ON THIS SHEET IS FURNISHED AND INSTALLED BY THE CONTRACTOR.

**NOTE:**  
NEW CATENARY STRUCTURES ARE SHOWN FOR REFERENCE ONLY, AND WILL BE BUILT AFTER THE WORK SHOWN ON THIS SHEET.

TO AVOID CONFLICTS WITH PROPOSED FOOTINGS, THESE CONDUITS MUST BE PLACED IMMEDIATELY ADJACENT TO THE EAST EDGE OF THE TIES OF TRACK 1. PROVIDE METRA AS-BUILT INFORMATION CONCERNING ACTUAL LOCATION OF THESE LINES.

COORDINATE WITH METRA TO CONFIRM THE LOCATION OF RAILROAD SIGNAL LINES BURIED ALONG THE EAST SIDE OF TRACK 1. EXERCISE CAUTION TO AVOID THESE LINES.

- LEGEND**
- E— METRA POWER BURIED UNDERGROUND
  - 2-4" RIGID GALV. STEEL CONDUITS
    - 1- METRA 4160 V, 4/C #2AWG
    - 1- METRA 2400 V, 4/C #2AWG
  - [H] FURNISH AND INSTALL HANDHOLE



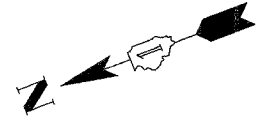
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

METRA UTILITIES  
AC & SCADA ROUTING - PHASE 1

SHT. 2 OF 5  
DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	265
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

**LEGEND**

- METRA POWER & FIBER BURIED UNDERGROUND
- 3-4" RIGID GALV. STEEL CONDUITS
- 1- METRA 4160 V, 4/C #2AWG
- 1- METRA 2400 V, 4/C #2AWG
- 1- METRA FIBER, COMMSCOPE PART #0-024-CA-8W-F12NS
- E — 2 CONDUITS FOR 4160V & 2400V POWER INSTALLED DURING PRESTAGE
- [H] FURNISH AND INSTALL HANDHOLES
- ◆ CATENARY SUPPORT STRUCTURE

**NOTE:**  
ALL UTILITY WORK SHOWN ON THIS SHEET IS FURNISHED AND INSTALLED BY THE CONTRACTOR.

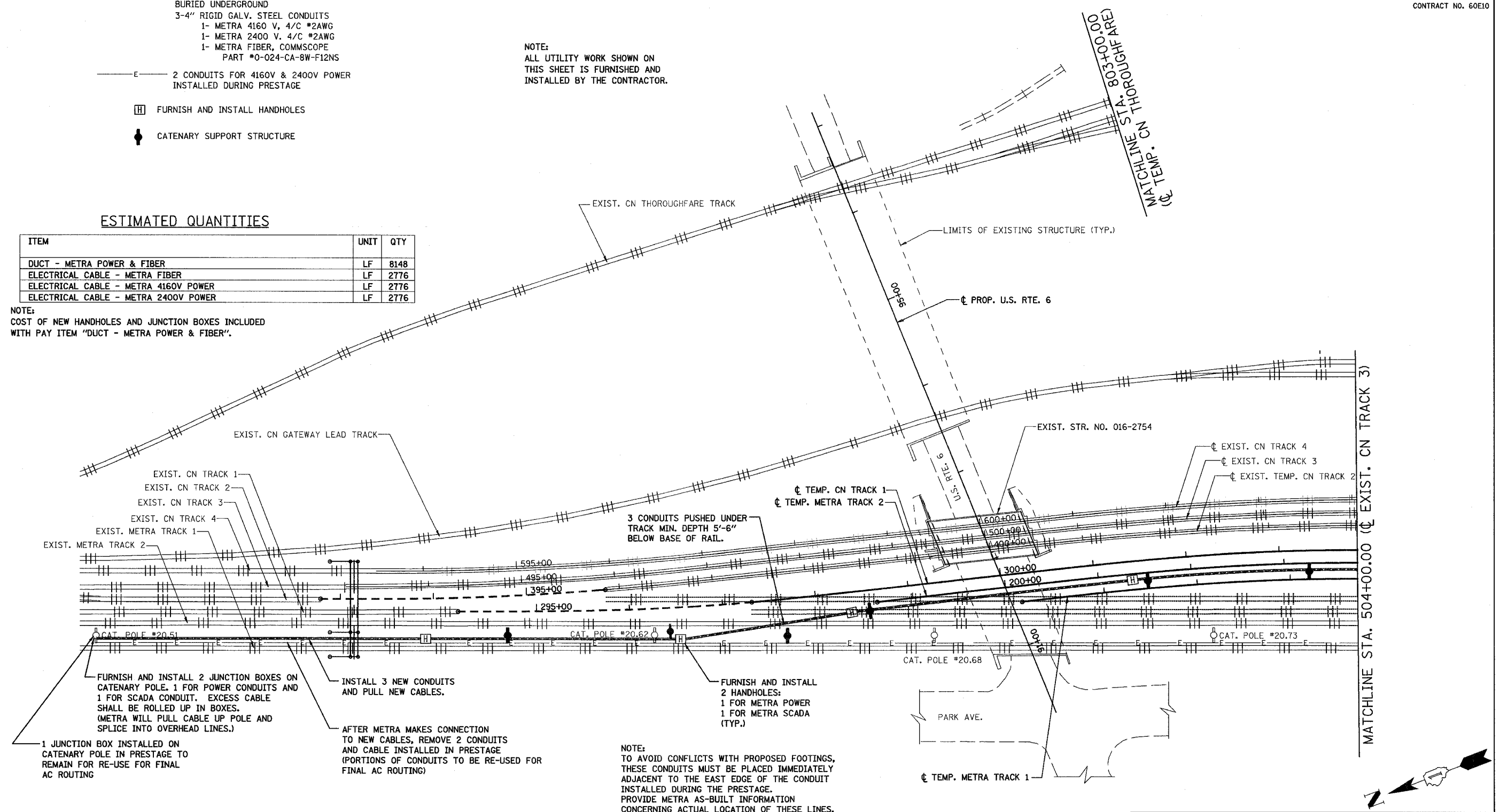
**ESTIMATED QUANTITIES**

ITEM	UNIT	QTY
DUCT - METRA POWER & FIBER	LF	8148
ELECTRICAL CABLE - METRA FIBER	LF	2776
ELECTRICAL CABLE - METRA 4160V POWER	LF	2776
ELECTRICAL CABLE - METRA 2400V POWER	LF	2776

**NOTE:**  
COST OF NEW HANDHOLES AND JUNCTION BOXES INCLUDED WITH PAY ITEM "DUCT - METRA POWER & FIBER".

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FURNISH AND INSTALL 2 JUNCTION BOXES ON CATENARY POLE. 1 FOR POWER CONDUITS AND 1 FOR SCADA CONDUIT. EXCESS CABLE SHALL BE ROLLED UP IN BOXES. (METRA WILL PULL CABLE UP POLE AND SPLICE INTO OVERHEAD LINES.)

1 JUNCTION BOX INSTALLED ON CATENARY POLE IN PRESTAGE TO REMAIN FOR RE-USE FOR FINAL AC ROUTING

INSTALL 3 NEW CONDUITS AND PULL NEW CABLES.

AFTER METRA MAKES CONNECTION TO NEW CABLES, REMOVE 2 CONDUITS AND CABLE INSTALLED IN PRESTAGE (PORTIONS OF CONDUITS TO BE RE-USED FOR FINAL AC ROUTING)

FURNISH AND INSTALL 2 HANDHOLES:  
1 FOR METRA POWER  
1 FOR METRA SCADA (TYP.)

**NOTE:**  
TO AVOID CONFLICTS WITH PROPOSED FOOTINGS, THESE CONDUITS MUST BE PLACED IMMEDIATELY ADJACENT TO THE EAST EDGE OF THE CONDUIT INSTALLED DURING THE PRESTAGE. PROVIDE METRA AS-BUILT INFORMATION CONCERNING ACTUAL LOCATION OF THESE LINES.

COORDINATE WITH METRA TO CONFIRM THE LOCATION OF RAILROAD SIGNAL LINES BURIED ALONG THE EAST SIDE OF TRACK 1 AND ALONG TEMPORARY TRACKS. EXERCISE CAUTION TO AVOID THESE LINES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

METRA UTILITIES  
AC & SCADA ROUTING - PHASE 2

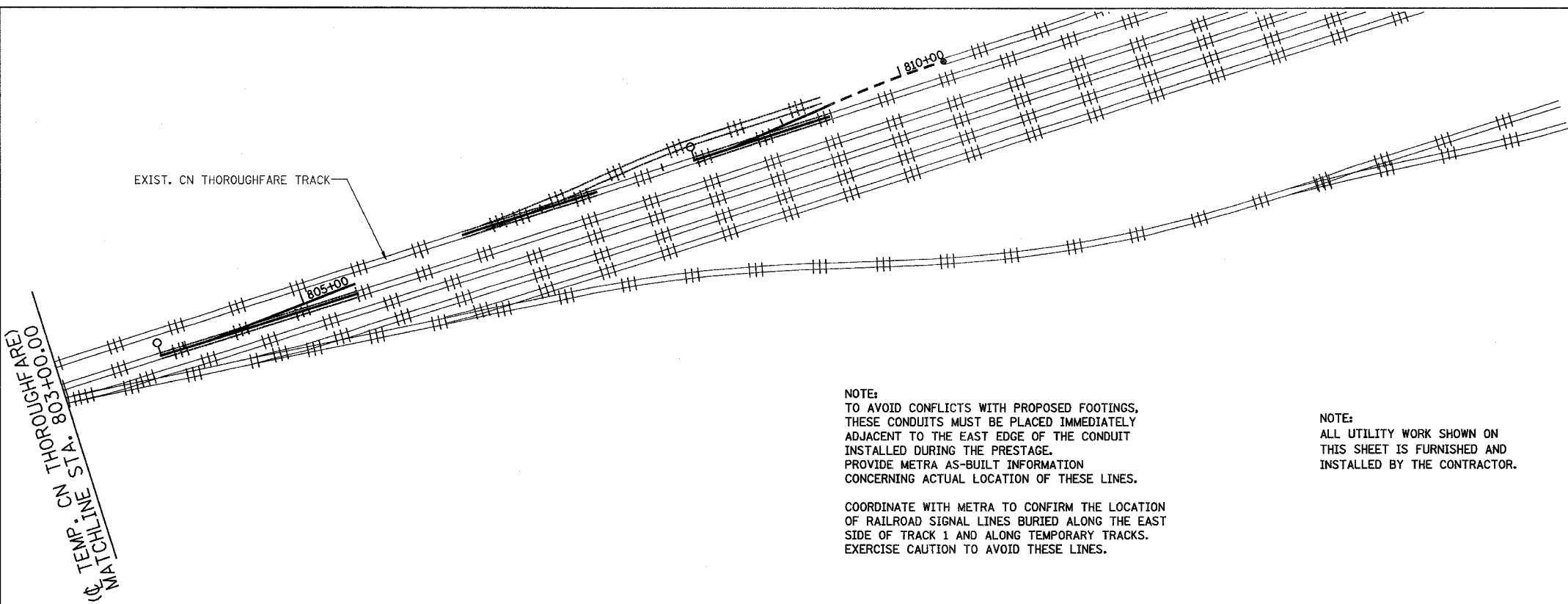
SHT. 3 OF 5  
DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	266
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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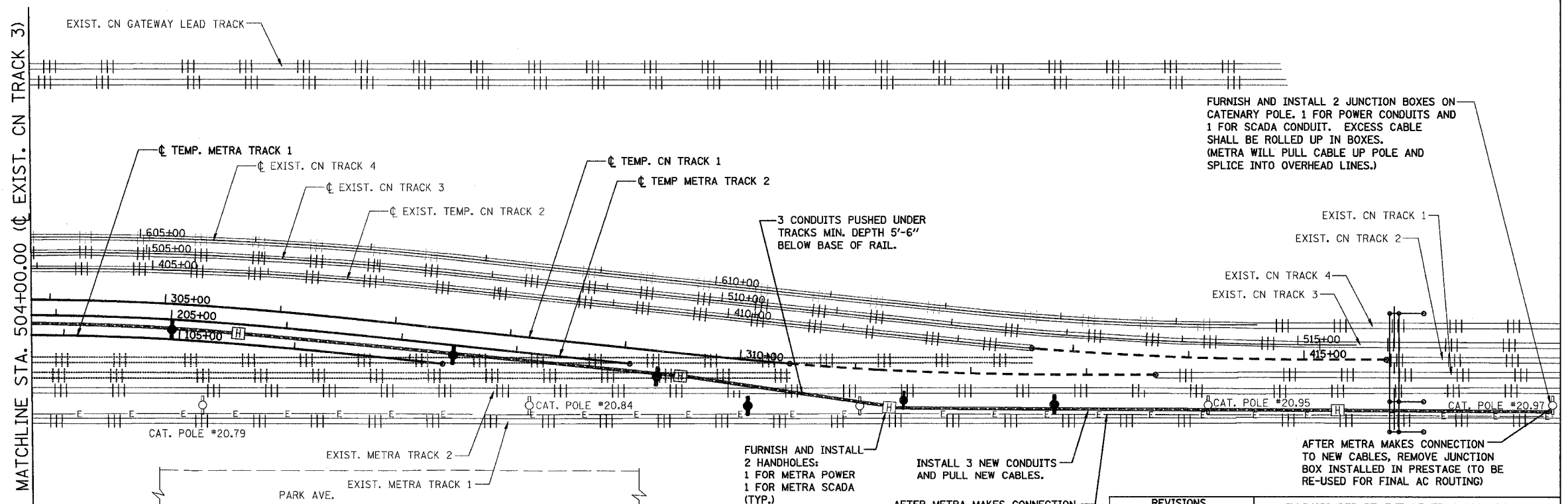


**NOTE:**  
TO AVOID CONFLICTS WITH PROPOSED FOOTINGS, THESE CONDUITS MUST BE PLACED IMMEDIATELY ADJACENT TO THE EAST EDGE OF THE CONDUIT INSTALLED DURING THE PRESTAGE. PROVIDE METRA AS-BUILT INFORMATION CONCERNING ACTUAL LOCATION OF THESE LINES.

COORDINATE WITH METRA TO CONFIRM THE LOCATION OF RAILROAD SIGNAL LINES BURIED ALONG THE EAST SIDE OF TRACK 1 AND ALONG TEMPORARY TRACKS. EXERCISE CAUTION TO AVOID THESE LINES.

**NOTE:**  
ALL UTILITY WORK SHOWN ON THIS SHEET IS FURNISHED AND INSTALLED BY THE CONTRACTOR.

- LEGEND**
- METRA POWER & FIBER BURIED UNDERGROUND
  - 3-4" RIGID GALV. STEEL CONDUITS
  - 1- METRA 4160 V. 4/C #2AWG
  - 1- METRA 2400 V. 4/C #2AWG
  - 1- METRA FIBER, COMMSCOPE PART #0-024-CA-8W-F12NS
  - 2 CONDUITS FOR 4160V & 2400V POWER INSTALLED DURING PRESTAGE
  - FURNISH AND INSTALL HANDHOLES
  - CATENARY SUPPORT STRUCTURE



FURNISH AND INSTALL 2 JUNCTION BOXES ON CATENARY POLE. 1 FOR POWER CONDUITS AND 1 FOR SCADA CONDUIT. EXCESS CABLE SHALL BE ROLLED UP IN BOXES. (METRA WILL PULL CABLE UP POLE AND SPLICE INTO OVERHEAD LINES.)

3 CONDUITS PUSHED UNDER TRACKS MIN. DEPTH 5'-6" BELOW BASE OF RAIL.

FURNISH AND INSTALL 2 HANDHOLES: 1 FOR METRA POWER 1 FOR METRA SCADA (TYP.)

INSTALL 3 NEW CONDUITS AND PULL NEW CABLES.

AFTER METRA MAKES CONNECTION TO NEW CABLES, REMOVE 2 CONDUITS AND CABLE INSTALLED IN PRESTAGE (PORTIONS OF CONDUITS TO BE RE-USED FOR FINAL AC ROUTING)

AFTER METRA MAKES CONNECTION TO NEW CABLES, REMOVE JUNCTION BOX INSTALLED IN PRESTAGE (TO BE RE-USED FOR FINAL AC ROUTING)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

METRA UTILITIES  
AC & SCADA ROUTING - PHASE 2

SHT. 4 OF 5  
DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	267
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

CONTRACT NO. 60E10

**LEGEND**

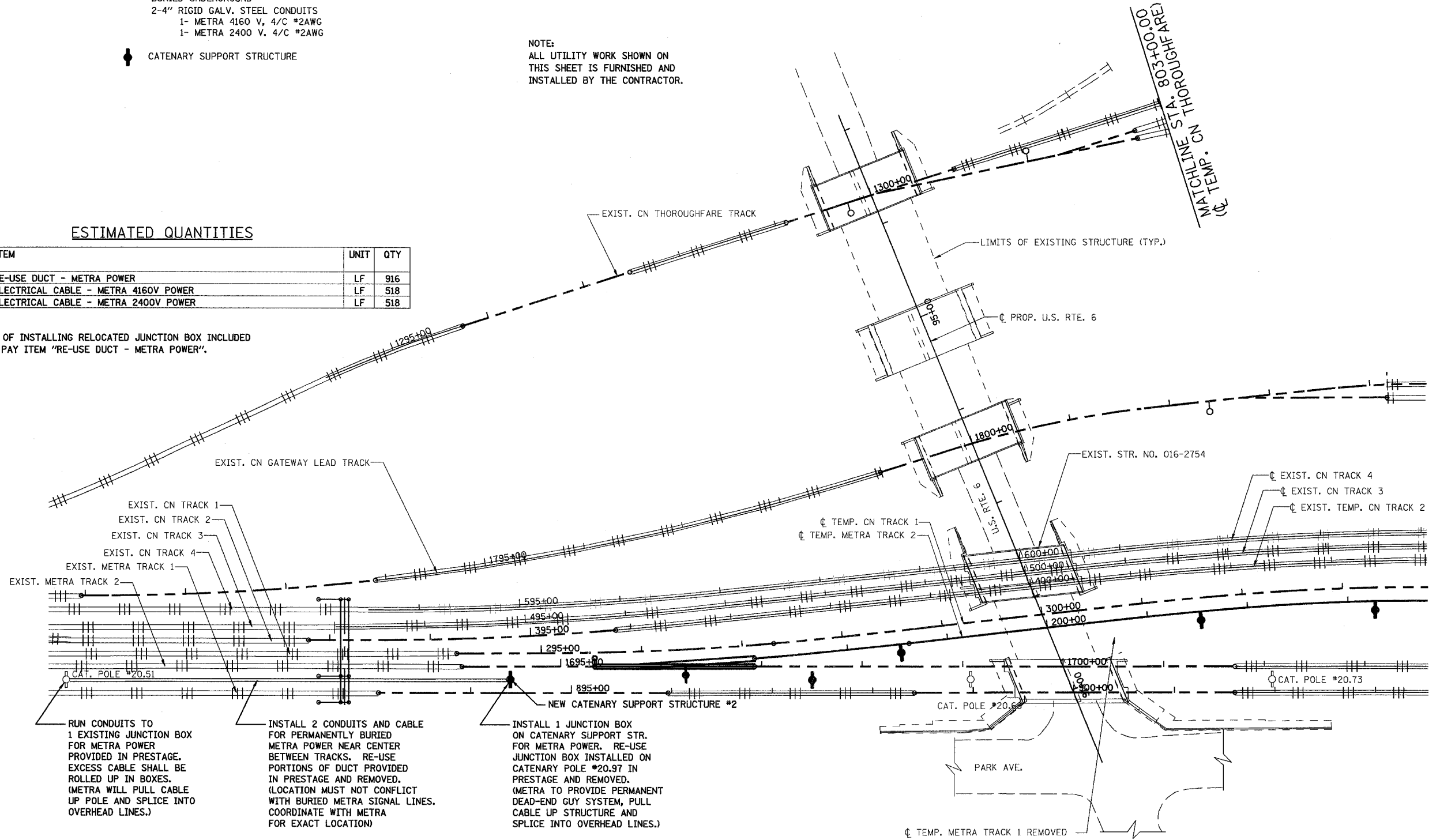
- ==== METRA POWER BURIED UNDERGROUND
- 2-4" RIGID GALV. STEEL CONDUITS
- 1- METRA 4160 V, 4/C #2AWG
- 1- METRA 2400 V, 4/C #2AWG
- ◆ CATENARY SUPPORT STRUCTURE

NOTE:  
ALL UTILITY WORK SHOWN ON THIS SHEET IS FURNISHED AND INSTALLED BY THE CONTRACTOR.

**ESTIMATED QUANTITIES**

ITEM	UNIT	QTY
RE-USE DUCT - METRA POWER	LF	916
ELECTRICAL CABLE - METRA 4160V POWER	LF	518
ELECTRICAL CABLE - METRA 2400V POWER	LF	518

NOTE:  
COST OF INSTALLING RELOCATED JUNCTION BOX INCLUDED WITH PAY ITEM "RE-USE DUCT - METRA POWER".



RUN CONDUITS TO 1 EXISTING JUNCTION BOX FOR METRA POWER PROVIDED IN PRESTAGE. EXCESS CABLE SHALL BE ROLLED UP IN BOXES. (METRA WILL PULL CABLE UP POLE AND SPLICE INTO OVERHEAD LINES.)

INSTALL 2 CONDUITS AND CABLE FOR PERMANENTLY BURIED METRA POWER NEAR CENTER BETWEEN TRACKS. RE-USE PORTIONS OF DUCT PROVIDED IN PRESTAGE AND REMOVED. (LOCATION MUST NOT CONFLICT WITH BURIED METRA SIGNAL LINES. COORDINATE WITH METRA FOR EXACT LOCATION)

INSTALL 1 JUNCTION BOX ON CATENARY SUPPORT STR. FOR METRA POWER. RE-USE JUNCTION BOX INSTALLED ON CATENARY POLE #20.97 IN PRESTAGE AND REMOVED. (METRA TO PROVIDE PERMANENT DEAD-END GUY SYSTEM, PULL CABLE UP STRUCTURE AND SPLICE INTO OVERHEAD LINES.)

NOTE:  
METRA WILL INSTALL NEW OVERHEAD AC POWER LINES BETWEEN NEW CATENARY SUPPORT STRUCTURE #2 AND CATENARY STRUCTURE 20.97 AND CONNECT TO JUNCTION BOX AT CATENARY SUPPORT STRUCTURE #2 AND PLACE IN SERVICE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA & CN OVER 159TH STREET

METRA UTILITIES  
AC & SCADA ROUTING - PHASE 3

SHT. 5 OF 5  
DATE 2/21/2008

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	268
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60E10				

THIS SHEET IS FOR REFERENCE ONLY.  
(NO CONTRACTOR WORK)

LEGEND

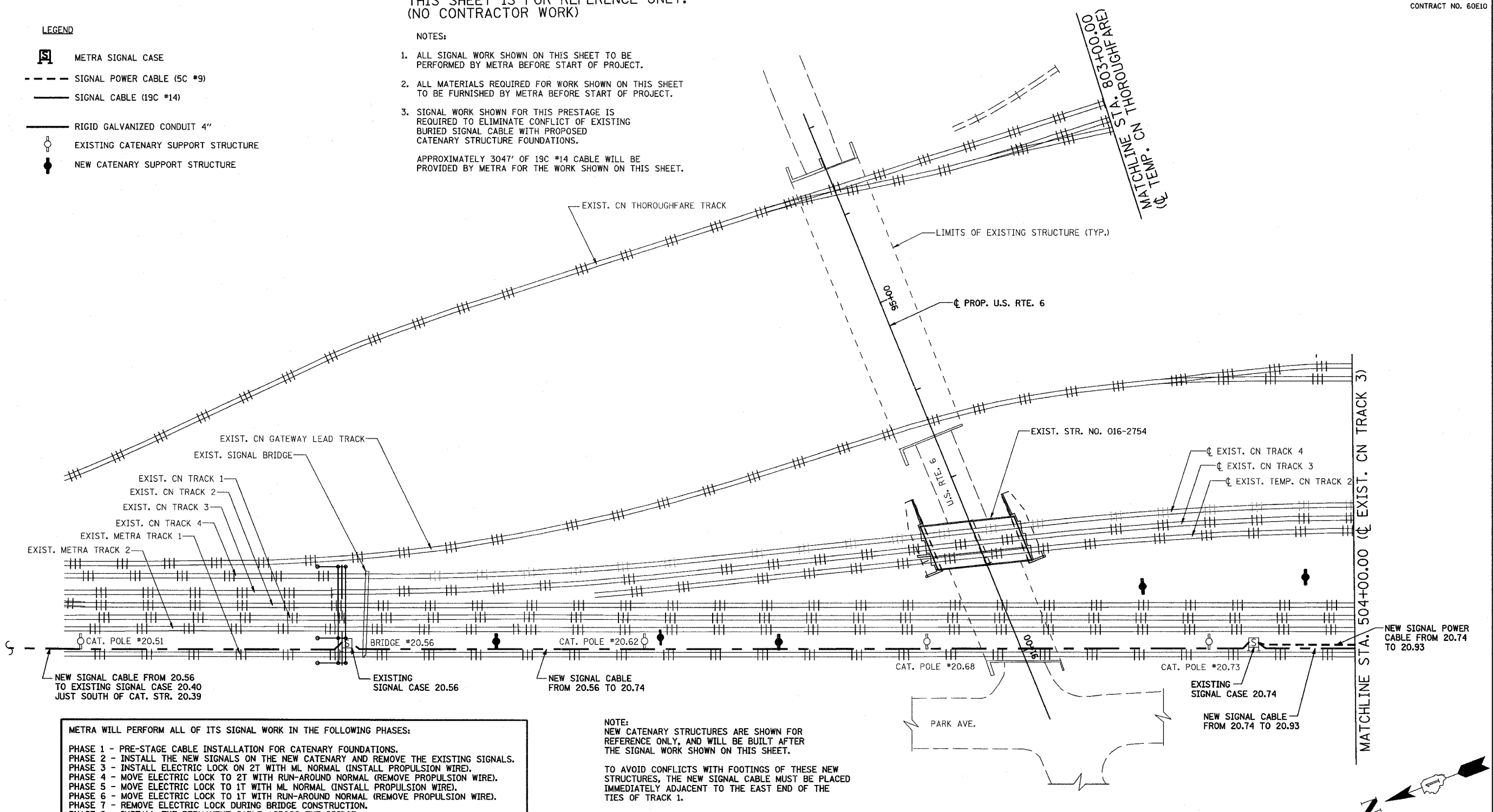
-  METRA SIGNAL CASE
-  SIGNAL POWER CABLE (5C #9)
-  SIGNAL CABLE (19C #14)
-  RIGID GALVANIZED CONDUIT 4"
-  EXISTING CATENARY SUPPORT STRUCTURE
-  NEW CATENARY SUPPORT STRUCTURE

NOTES:

1. ALL SIGNAL WORK SHOWN ON THIS SHEET TO BE PERFORMED BY METRA BEFORE START OF PROJECT.
  2. ALL MATERIALS REQUIRED FOR WORK SHOWN ON THIS SHEET TO BE FURNISHED BY METRA BEFORE START OF PROJECT.
  3. SIGNAL WORK SHOWN FOR THIS PRESTAGE IS REQUIRED TO ELIMINATE CONFLICT OF EXISTING BURIED SIGNAL CABLE WITH PROPOSED CATENARY STRUCTURE FOUNDATIONS.
- APPROXIMATELY 3047' OF 19C #14 CABLE WILL BE PROVIDED BY METRA FOR THE WORK SHOWN ON THIS SHEET.

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**METRA WILL PERFORM ALL OF ITS SIGNAL WORK IN THE FOLLOWING PHASES:**

PHASE 1 - PRE-STAGE CABLE INSTALLATION FOR CATENARY FOUNDATIONS.  
 PHASE 2 - INSTALL THE NEW SIGNALS ON THE NEW CATENARY AND REMOVE THE EXISTING SIGNALS.  
 PHASE 3 - INSTALL ELECTRIC LOCK ON 2T WITH ML NORMAL (INSTALL PROPULSION WIRE).  
 PHASE 4 - MOVE ELECTRIC LOCK TO 2T WITH RUN-AROUND NORMAL (REMOVE PROPULSION WIRE).  
 PHASE 5 - MOVE ELECTRIC LOCK TO 1T WITH ML NORMAL (INSTALL PROPULSION WIRE).  
 PHASE 6 - MOVE ELECTRIC LOCK TO 1T WITH RUN-AROUND NORMAL (REMOVE PROPULSION WIRE).  
 PHASE 7 - REMOVE ELECTRIC LOCK DURING BRIDGE CONSTRUCTION.  
 PHASE 8 - INSTALL THE PERMANENT CABLE ACROSS THE BRIDGE.  
 PHASE 9 - INSTALL ELECTRIC LOCK ON 1T WITH RUN-AROUND NORMAL (INSTALL PROPULSION WIRE).  
 PHASE 10 - MOVE ELECTRIC LOCK TO 1T WITH ML NORMAL (REMOVE PROPULSION WIRE).  
 PHASE 11 - MOVE ELECTRIC LOCK TO 2T WITH RUN-AROUND NORMAL (INSTALL PROPULSION WIRE).  
 PHASE 12 - MOVE ELECTRIC LOCK TO 2T WITH ML NORMAL (REMOVE PROPULSION WIRE).  
 PHASE 13 - REMOVE ELECTRIC LOCK (FINAL PLANS).

THE CONTRACTOR SHALL COORDINATE HIS SCHEDULE WITH METRA IN ORDER TO PROVIDE MATERIALS TO METRA AND ALLOW ADEQUATE TIME FOR METRA TO INSTALL THEM.

NOTE:  
NEW CATENARY STRUCTURES ARE SHOWN FOR REFERENCE ONLY, AND WILL BE BUILT AFTER THE SIGNAL WORK SHOWN ON THIS SHEET.

TO AVOID CONFLICTS WITH FOOTINGS OF THESE NEW STRUCTURES, THE NEW SIGNAL CABLE MUST BE PLACED IMMEDIATELY ADJACENT TO THE EAST END OF THE TIES OF TRACK 1.

METRA TO PROVIDE AS-BUILT INFORMATION CONCERNING ACTUAL LOCATION OF THESE LINES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
TEMP SIGNAL ROUTING (PRESTAGE-NORTH)

SHT. SG-01 OF SG-36  
DATE 4/11/2008

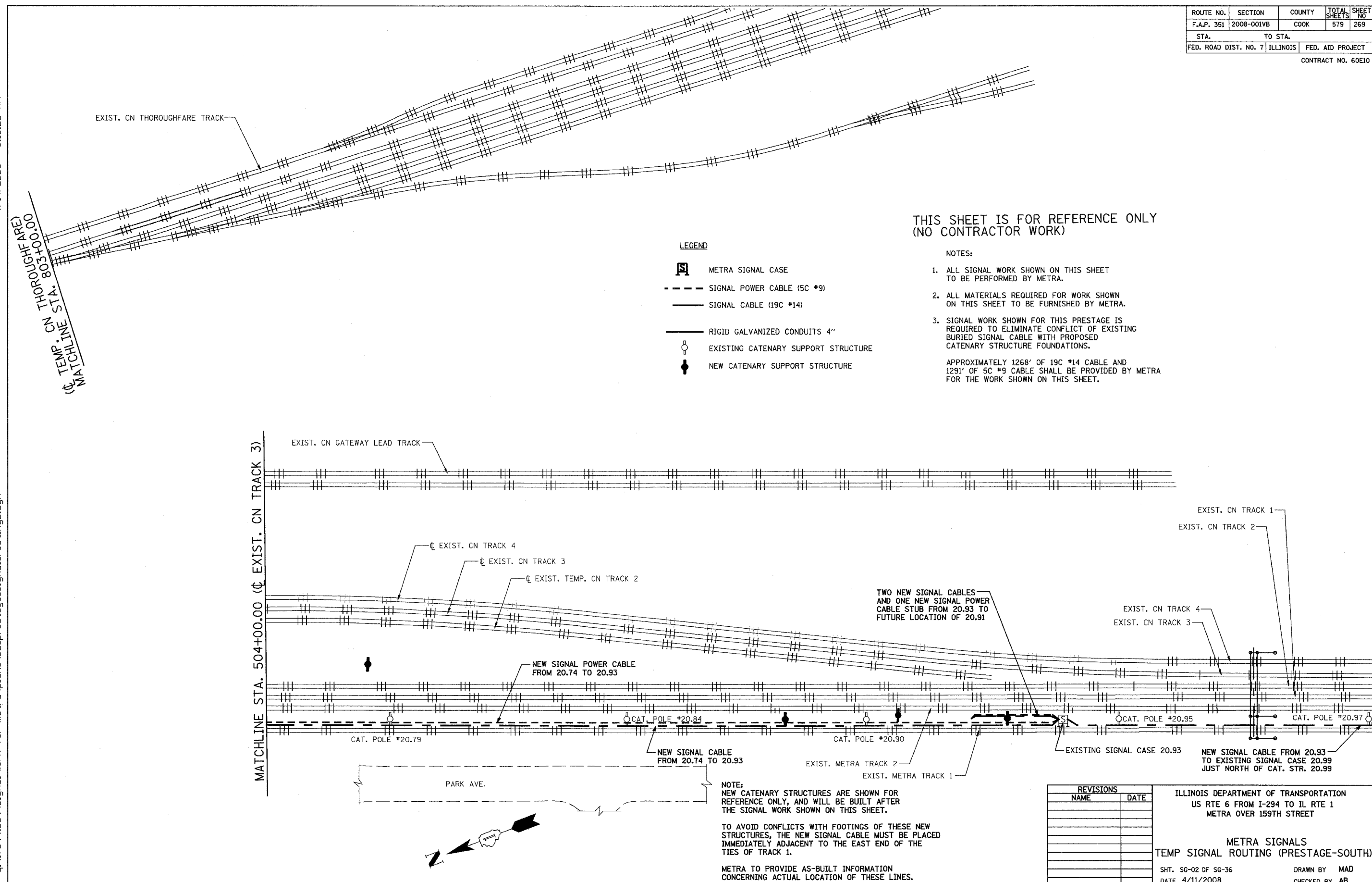
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CHECKED BY AB



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	269
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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**THIS SHEET IS FOR REFERENCE ONLY  
(NO CONTRACTOR WORK)**

- LEGEND**
- METRA SIGNAL CASE
  - SIGNAL POWER CABLE (5C #9)
  - SIGNAL CABLE (19C #14)
  - RIGID GALVANIZED CONDUITS 4"
  - EXISTING CATENARY SUPPORT STRUCTURE
  - NEW CATENARY SUPPORT STRUCTURE

- NOTES:**
- ALL SIGNAL WORK SHOWN ON THIS SHEET TO BE PERFORMED BY METRA.
  - ALL MATERIALS REQUIRED FOR WORK SHOWN ON THIS SHEET TO BE FURNISHED BY METRA.
  - SIGNAL WORK SHOWN FOR THIS PRESTAGE IS REQUIRED TO ELIMINATE CONFLICT OF EXISTING BURIED SIGNAL CABLE WITH PROPOSED CATENARY STRUCTURE FOUNDATIONS.  
  
APPROXIMATELY 1268' OF 19C #14 CABLE AND 1291' OF 5C #9 CABLE SHALL BE PROVIDED BY METRA FOR THE WORK SHOWN ON THIS SHEET.

MATCHLINE STA. 504+00.00 (EXIST. CN TRACK 3)

MATCHLINE STA. 803+00.00 (TEMP. CN THOROUGHFARE)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

**METRA SIGNALS  
TEMP SIGNAL ROUTING (PRESTAGE-SOUTH)**

SHT. S6-02 OF S6-36      DRAWN BY MAD  
DATE 4/11/2008      CHECKED BY AB

**NOTE:**  
NEW CATENARY STRUCTURES ARE SHOWN FOR REFERENCE ONLY, AND WILL BE BUILT AFTER THE SIGNAL WORK SHOWN ON THIS SHEET.

TO AVOID CONFLICTS WITH FOOTINGS OF THESE NEW STRUCTURES, THE NEW SIGNAL CABLE MUST BE PLACED IMMEDIATELY ADJACENT TO THE EAST END OF THE TIES OF TRACK 1.

METRA TO PROVIDE AS-BUILT INFORMATION CONCERNING ACTUAL LOCATION OF THESE LINES.



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### CONTRACTOR-PROVIDED HARDWARE ASSOCIATED WITH SIGNAL RELOCATION AND CABLE RE-ROUTING

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	270
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

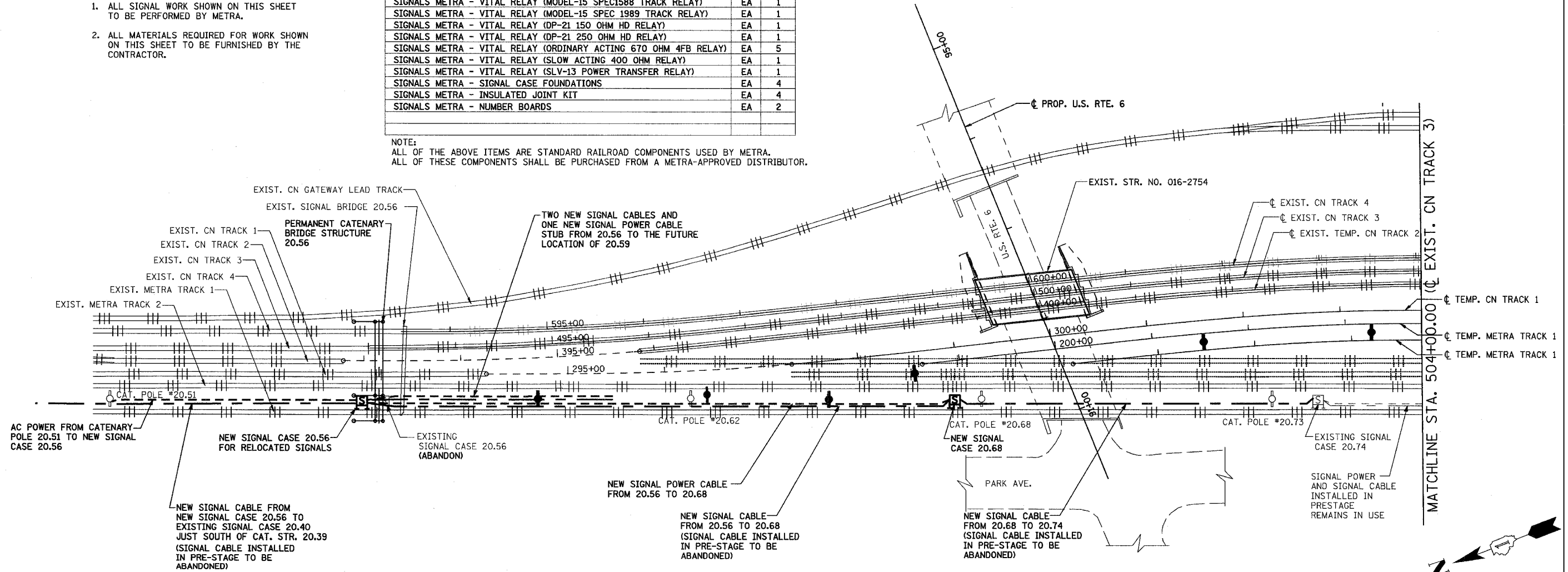
**LEGEND**

-  METRA SIGNAL CASE
-  SIGNAL POWER CABLE (5C #9)
-  SIGNAL CABLE (19C #14)
-  METRA CONDUIT 4"
-  EXISTING CATENARY SUPPORT STRUCTURE
-  NEW CATENARY SUPPORT STRUCTURE

- NOTES:**
- ALL SIGNAL WORK SHOWN ON THIS SHEET TO BE PERFORMED BY METRA.
  - ALL MATERIALS REQUIRED FOR WORK SHOWN ON THIS SHEET TO BE FURNISHED BY THE CONTRACTOR.

ITEM	UNIT	QTY
SIGNALS METRA - 5C #9 POWER CABLE	LF	1,290
SIGNALS METRA - 19C #14 MULTI-CONDUCTOR CABLE	LF	2,705
SIGNALS METRA - CASE WIRE #10	LF	750
SIGNALS METRA - 2C #6 TRACK CABLE	LF	200
SIGNALS METRA - TRACK CIRCUIT RAIL CONNECTORS	EA	4
SIGNALS METRA - BOOTLEGS	EA	4
SIGNALS METRA - 2-5C #6 SIGNAL CABLE	LF	200
SIGNALS METRA - 3 LIGHT COLORLIGHT UNIT	EA	2
SIGNALS METRA - MISC. - W-10 TRANSFORMER	EA	2
SIGNALS METRA - MISC. - RECTIFIER (20 AMP)	EA	1
SIGNALS METRA - MISC. - RECTIFIER (40 AMP)	EA	1
SIGNALS METRA - MISC. - LIGHTNING ARRESTER	EA	2
SIGNALS METRA - MISC. - EQUALIZER	EA	2
SIGNALS METRA - MISC. - RESISTORS 5 WATT	EA	2
SIGNALS METRA - MISC. - FUSE 6 AMP	EA	2
SIGNALS METRA - MISC. - FUSE 30 AMP	EA	5
SIGNALS METRA - MISC. - FUSE 40 AMP	EA	2
SIGNALS METRA - RELAY CASE E	EA	2
SIGNALS METRA - VITAL RELAY (FN-27 FLASHER)	EA	1
SIGNALS METRA - VITAL RELAY (MODEL-15 SPEC1588 TRACK RELAY)	EA	1
SIGNALS METRA - VITAL RELAY (MODEL-15 SPEC 1989 TRACK RELAY)	EA	1
SIGNALS METRA - VITAL RELAY (DP-21 150 OHM HD RELAY)	EA	1
SIGNALS METRA - VITAL RELAY (DP-21 250 OHM HD RELAY)	EA	1
SIGNALS METRA - VITAL RELAY (ORDINARY ACTING 670 OHM 4FB RELAY)	EA	5
SIGNALS METRA - VITAL RELAY (SLOW ACTING 400 OHM RELAY)	EA	1
SIGNALS METRA - VITAL RELAY (SLV-13 POWER TRANSFER RELAY)	EA	1
SIGNALS METRA - SIGNAL CASE FOUNDATIONS	EA	4
SIGNALS METRA - INSULATED JOINT KIT	EA	4
SIGNALS METRA - NUMBER BOARDS	EA	2

**NOTE:**  
ALL OF THE ABOVE ITEMS ARE STANDARD RAILROAD COMPONENTS USED BY METRA.  
ALL OF THESE COMPONENTS SHALL BE PURCHASED FROM A METRA-APPROVED DISTRIBUTOR.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

**METRA SIGNALS  
SIGNAL RELOCATION (NORTH)**







SHT. S6-03 OF S6-36      DRAWN BY MAD  
DATE 4/11/2008      CHECKED BY AB

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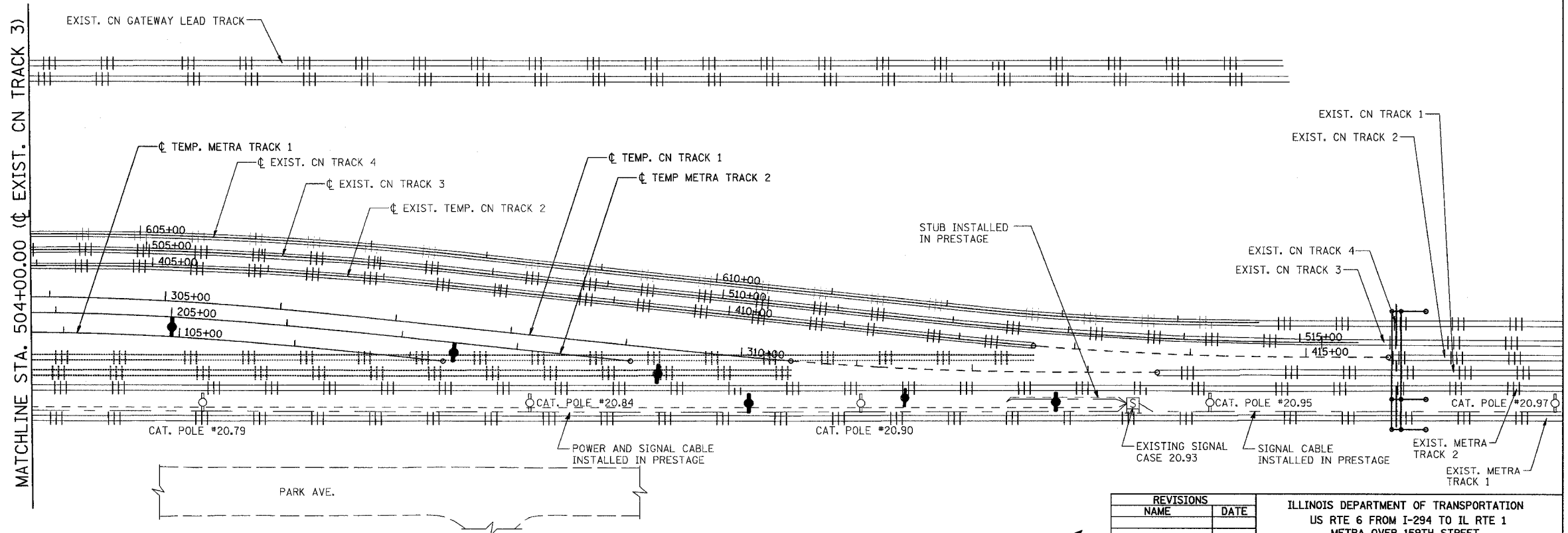
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	271
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

LEGEND

-  METRA SIGNAL CASE
-  SIGNAL POWER CABLE (5C #9)
-  SIGNAL CABLE (19C #14)
-  METRA CONDUIT 4"
-  EXISTING CATENARY SUPPORT STRUCTURE
-  NEW CATENARY SUPPORT STRUCTURE

NOTES:

1. ALL SIGNAL WORK SHOWN ON THIS SHEET TO BE PERFORMED BY METRA.
2. ALL MATERIALS REQUIRED FOR WORK SHOWN ON THIS SHEET TO BE FURNISHED BY THE CONTRACTOR.



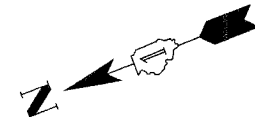
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA OVER 159TH STREET

METRA SIGNALS  
 SIGNAL RELOCATION (SOUTH)

SHT. SG-04 OF SG-36  
 DATE 4/11/2008







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 CHECKED BY AB



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	272
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

**CONTRACTOR-PROVIDED HARDWARE  
ASSOCIATED WITH NORTH ELECTRIC SWITCH LOCKS**

**LEGEND**

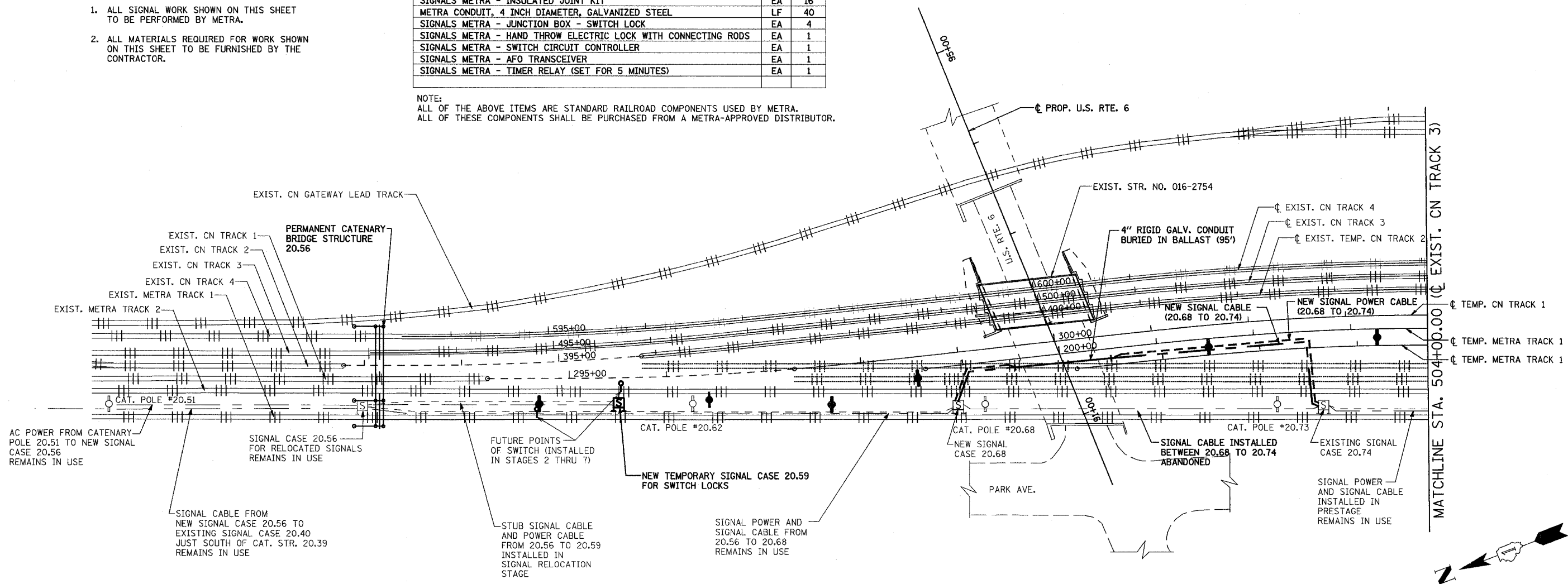
-  METRA SIGNAL CASE
-  SIGNAL POWER CABLE (5C #9)
-  SIGNAL CABLE (19C #14)
-  METRA CONDUIT 4"
-  EXISTING CATENARY SUPPORT STRUCTURE
-  NEW CATENARY SUPPORT STRUCTURE

**NOTES:**

1. ALL SIGNAL WORK SHOWN ON THIS SHEET TO BE PERFORMED BY METRA.
2. ALL MATERIALS REQUIRED FOR WORK SHOWN ON THIS SHEET TO BE FURNISHED BY THE CONTRACTOR.

ITEM	UNIT	QTY
SIGNALS METRA - 19C #14 MULTI-CONDUCTOR CABLE	LF	507
SIGNALS METRA - 5C #9 POWER CABLE	LF	507
SIGNALS METRA - CASE WIRE #10	LF	300
SIGNALS METRA - 2C #6 TRACK CABLE	LF	200
SIGNALS METRA - TRACK CIRCUIT RAIL CONNECTORS	EA	2
SIGNALS METRA - BOOTLEGS	EA	2
SIGNALS METRA - 2-5C #6 SIGNAL CABLE	LF	100
SIGNALS METRA - INSULATED BONDSTRAND	LF	250
SIGNALS METRA - MISC. - BATTERY FILTER	EA	1
SIGNALS METRA - MISC. - RECTIFIER (20 AMP)	EA	1
SIGNALS METRA - MISC. - LIGHTNING ARRESTER	EA	3
SIGNALS METRA - MISC. - EQUALIZER	EA	3
SIGNALS METRA - MISC. - FUSE 30 AMP	EA	4
SIGNALS METRA - RELAY CASE E	EA	1
SIGNALS METRA - VITAL PLUG-IN RELAY (500 OHM)	EA	4
SIGNALS METRA - SIGNAL CASE FOUNDATIONS	EA	2
SIGNALS METRA - INSULATED JOINT KIT	EA	16
METRA CONDUIT, 4 INCH DIAMETER, GALVANIZED STEEL	LF	40
SIGNALS METRA - JUNCTION BOX - SWITCH LOCK	EA	4
SIGNALS METRA - HAND THROW ELECTRIC LOCK WITH CONNECTING RODS	EA	1
SIGNALS METRA - SWITCH CIRCUIT CONTROLLER	EA	1
SIGNALS METRA - AFO TRANSCEIVER	EA	1
SIGNALS METRA - TIMER RELAY (SET FOR 5 MINUTES)	EA	1

NOTE:  
ALL OF THE ABOVE ITEMS ARE STANDARD RAILROAD COMPONENTS USED BY METRA.  
ALL OF THESE COMPONENTS SHALL BE PURCHASED FROM A METRA-APPROVED DISTRIBUTOR.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

**METRA SIGNALS  
TEMP SIGNAL ROUTING (STAGE 1-NORTH)**

SHT. SG-05 OF SG-36      DRAWN BY MAD  
DATE 4/11/2008      CHECKED BY AB

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	273
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60E10				

**CONTRACTOR-PROVIDED HARDWARE  
ASSOCIATED WITH SOUTH ELECTRIC SWITCH LOCKS**

ITEM	UNIT	QTY
SIGNALS METRA - 19C #14 MULTI-CONDUCTOR CABLE	LF	0
SIGNALS METRA - 5C #9 POWER CABLE	LF	0
SIGNALS METRA - CASE WIRE #10	LF	300
SIGNALS METRA - 2C #6 TRACK CABLE	LF	200
SIGNALS METRA - TRACK CIRCUIT RAIL CONNECTORS	EA	2
SIGNALS METRA - BOOTLEGS	EA	2
SIGNALS METRA - 2-5C #6 SIGNAL CABLE	LF	100
SIGNALS METRA - INSULATED BONDSTRAND	LF	250
SIGNALS METRA - MISC. - BATTERY FILTER	EA	1
SIGNALS METRA - MISC. - RECTIFIER (20 AMP)	EA	1
SIGNALS METRA - MISC. - LIGHTNING ARRESTER	EA	3
SIGNALS METRA - MISC. - EQUALIZER	EA	3
SIGNALS METRA - MISC. - FUSE 30 AMP	EA	4
SIGNALS METRA - RELAY CASE E	EA	1
SIGNALS METRA - VITAL PLUG-IN RELAY (500 OHM)	EA	4
SIGNALS METRA - SIGNAL CASE FOUNDATIONS	EA	2
SIGNALS METRA - INSULATED JOINT KIT	EA	16
METRA CONDUIT, 4 INCH DIAMETER WITH COUPLERS, GALVANIZED STEEL	LF	40
SIGNALS METRA - JUNCTION BOX - SWITCH LOCK	EA	4
SIGNALS METRA - HAND THROW ELECTRIC LOCK WITH CONNECTING RODS	EA	1
SIGNALS METRA - SWITCH CIRCUIT CONTROLLER	EA	1
SIGNALS METRA - AFO TRANSCEIVER	EA	1
SIGNALS METRA - TIMER RELAY (SET FOR 5 MINUTES)	EA	1

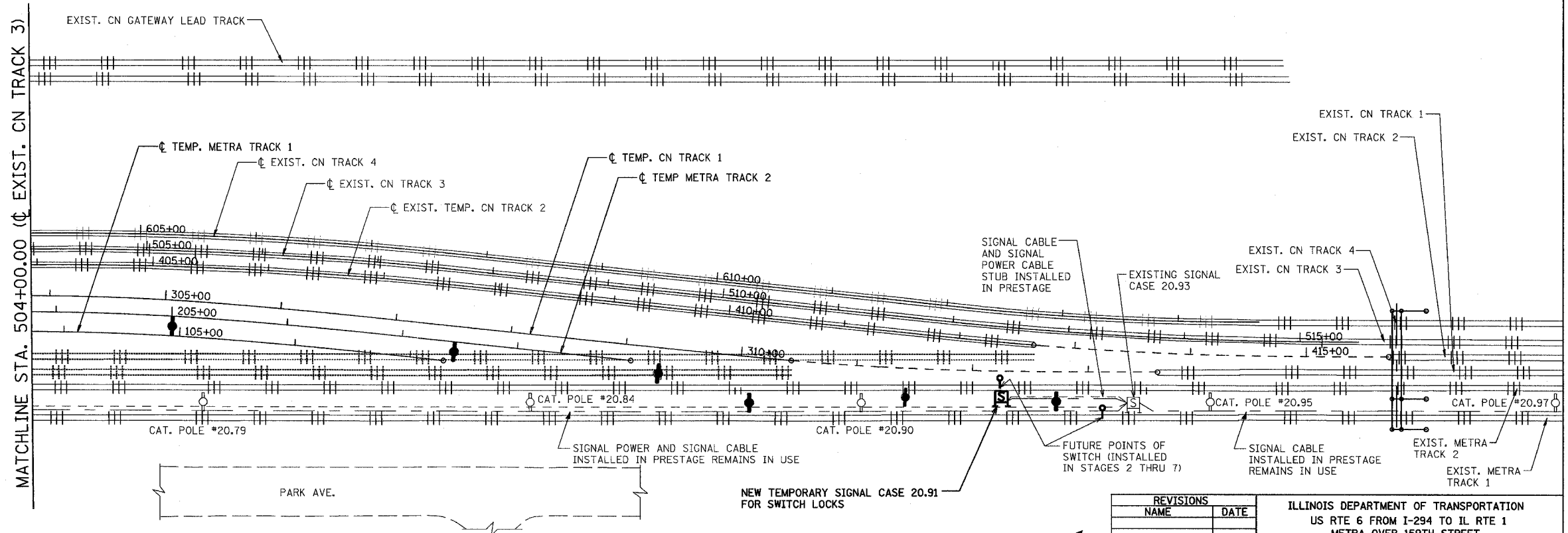
NOTE:  
ALL OF THE ABOVE ITEMS ARE STANDARD RAILROAD COMPONENTS USED BY METRA.  
ALL OF THESE COMPONENTS SHALL BE PURCHASED FROM A METRA-APPROVED DISTRIBUTOR.

**LEGEND**

- METRA SIGNAL CASE
- AC POWER CABLE (5C #6)
- SIGNAL CABLE (19C - #14)
- METRA CONDUIT 4"
- EXISTING CATENARY SUPPORT STRUCTURE
- NEW CATENARY SUPPORT STRUCTURE

**NOTES:**

1. ALL SIGNAL WORK SHOWN ON THIS SHEET TO BE PERFORMED BY METRA.
2. ALL MATERIALS REQUIRED FOR WORK SHOWN ON THIS SHEET TO BE FURNISHED BY THE CONTRACTOR.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET







**METRA SIGNALS  
TEMP SIGNAL ROUTING (STAGE 1-SOUTH)**

SHT. SG-06 OF SG-36      DRAWN BY MAD  
DATE 4/11/2008      CHECKED BY AB

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	274
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60E10

LEGEND

-  METRA SIGNAL CASE
-  SIGNAL POWER CABLE (5C #9)
-  SIGNAL CABLE (19C #14)
-  METRA CONDUIT 4"
-  EXISTING CATENARY SUPPORT STRUCTURE
-  NEW CATENARY SUPPORT STRUCTURE

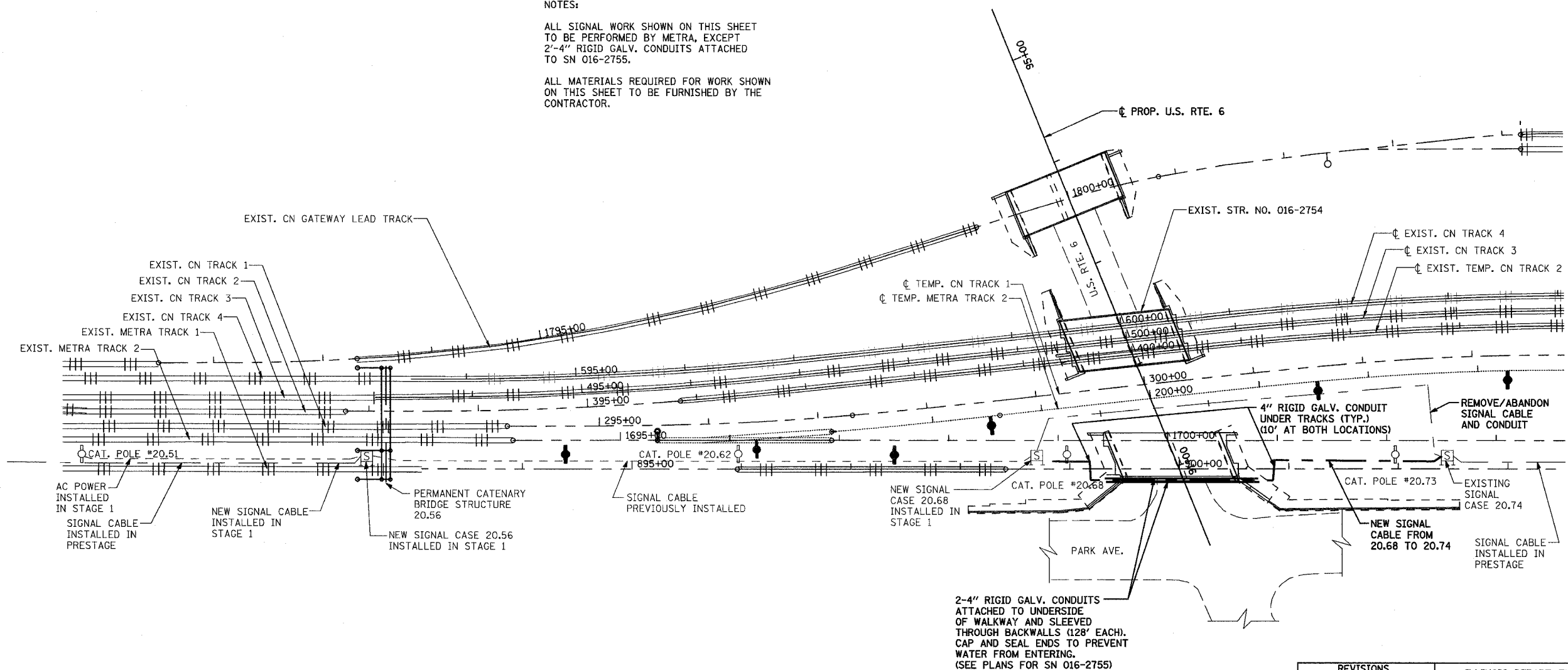
CONTRACTOR-PROVIDED HARDWARE  
ASSOCIATED WITH FINAL SIGNAL ROUTING

ITEM	UNIT	QTY
SIGNALS METRA - 19C #14 MULTI-CONDUCTOR CABLE	LF	507
METRA CONDUIT, 4 INCH DIAMETER, GALVANIZED STEEL	LF	20

NOTES:

ALL SIGNAL WORK SHOWN ON THIS SHEET TO BE PERFORMED BY METRA, EXCEPT 2'-4" RIGID GALV. CONDUITS ATTACHED TO SN 016-2755.

ALL MATERIALS REQUIRED FOR WORK SHOWN ON THIS SHEET TO BE FURNISHED BY THE CONTRACTOR.



2-4" RIGID GALV. CONDUITS ATTACHED TO UNDERSIDE OF WALKWAY AND SLEEVED THROUGH BACKWALLS (128' EACH). CAP AND SEAL ENDS TO PREVENT WATER FROM ENTERING. (SEE PLANS FOR SN 016-2755)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
FINAL SIGNAL ROUTING (STAGE 8)

SHT. S6-07 OF S6-36  
DATE 4/11/2008

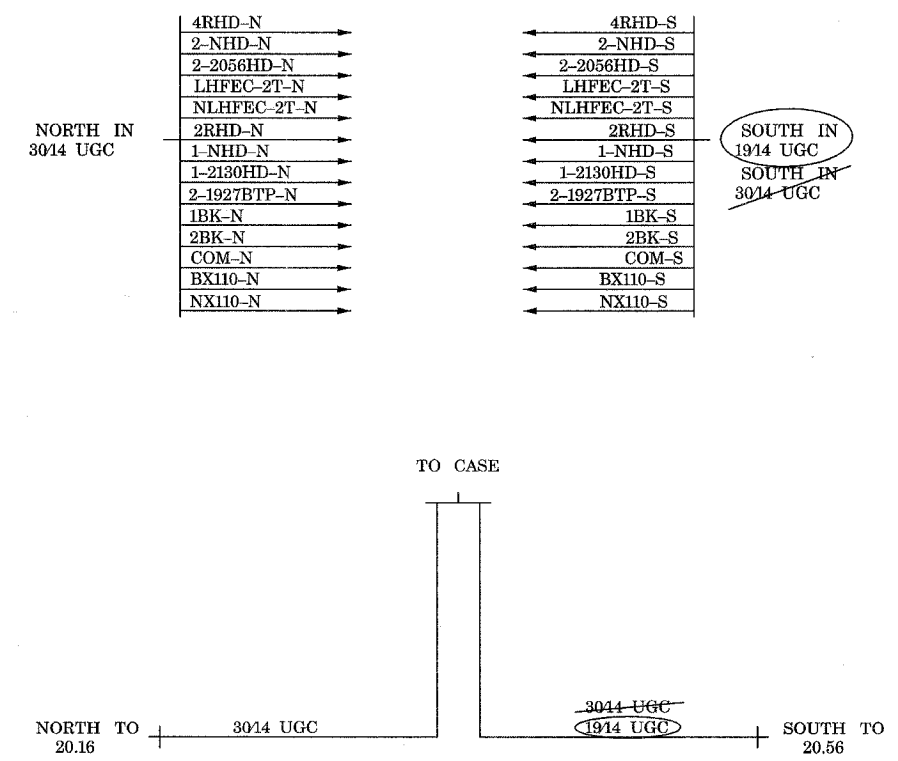
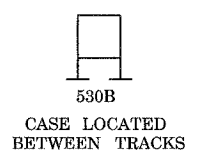
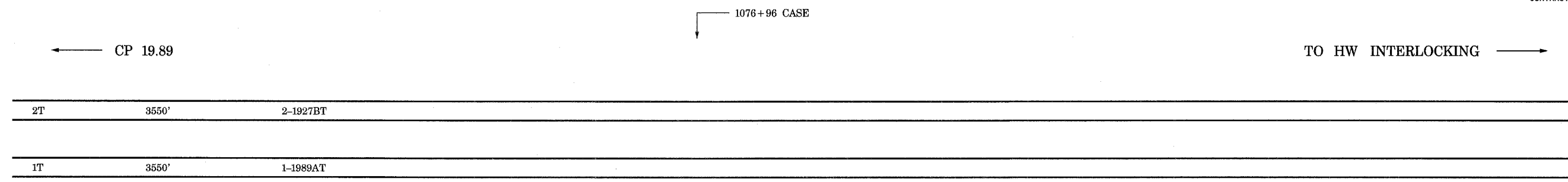
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	275
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

4/14/2008 11:43:52 AM



20.16

20.56

11/30/06 OK  
URS 04/07/08 OK

YELLOW - IN  
~~RED~~ - OUT

CREW  
05/01/08

PHASE 1

FOR REFERENCE ONLY  
(NO CONTRACTOR WORK)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 1 (PRESTAGE) CASE 20.40

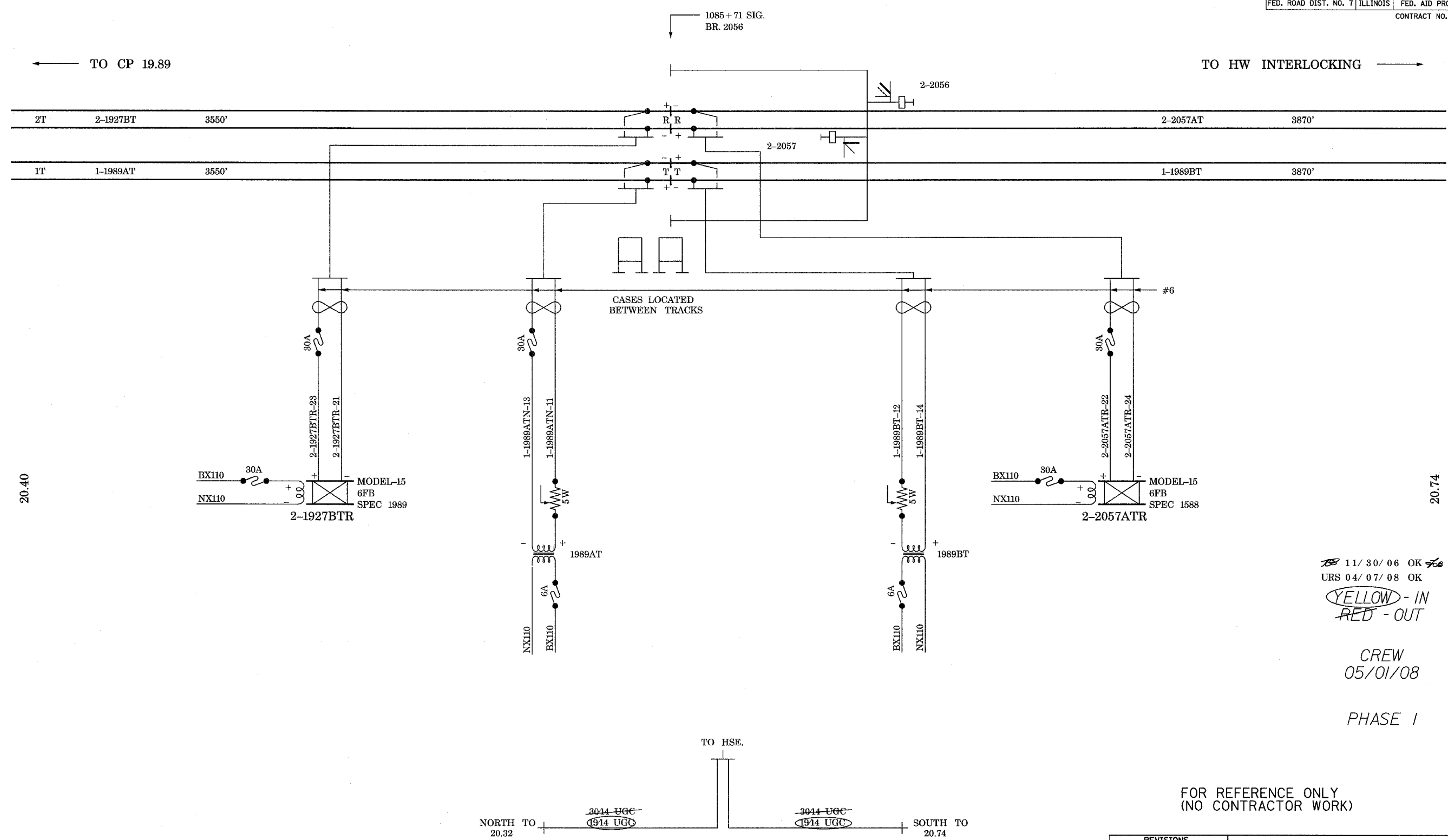
SHT. SG-08 OF SG-36      DRAWN BY AB  
DATE 4/11/2008      CHECKED BY MAD

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	276
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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11/30/06 OK  
 URS 04/07/08 OK

**YELLOW - IN**  
**RED - OUT**

CREW  
 05/01/08

PHASE 1

FOR REFERENCE ONLY  
 (NO CONTRACTOR WORK)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA OVER 159TH STREET

METRA SIGNALS  
 PHASE 1 (PRESTAGE) CASE 20.56 SH. 1

SHT. SG-09 OF SG-36  
 DATE 4/11/2008

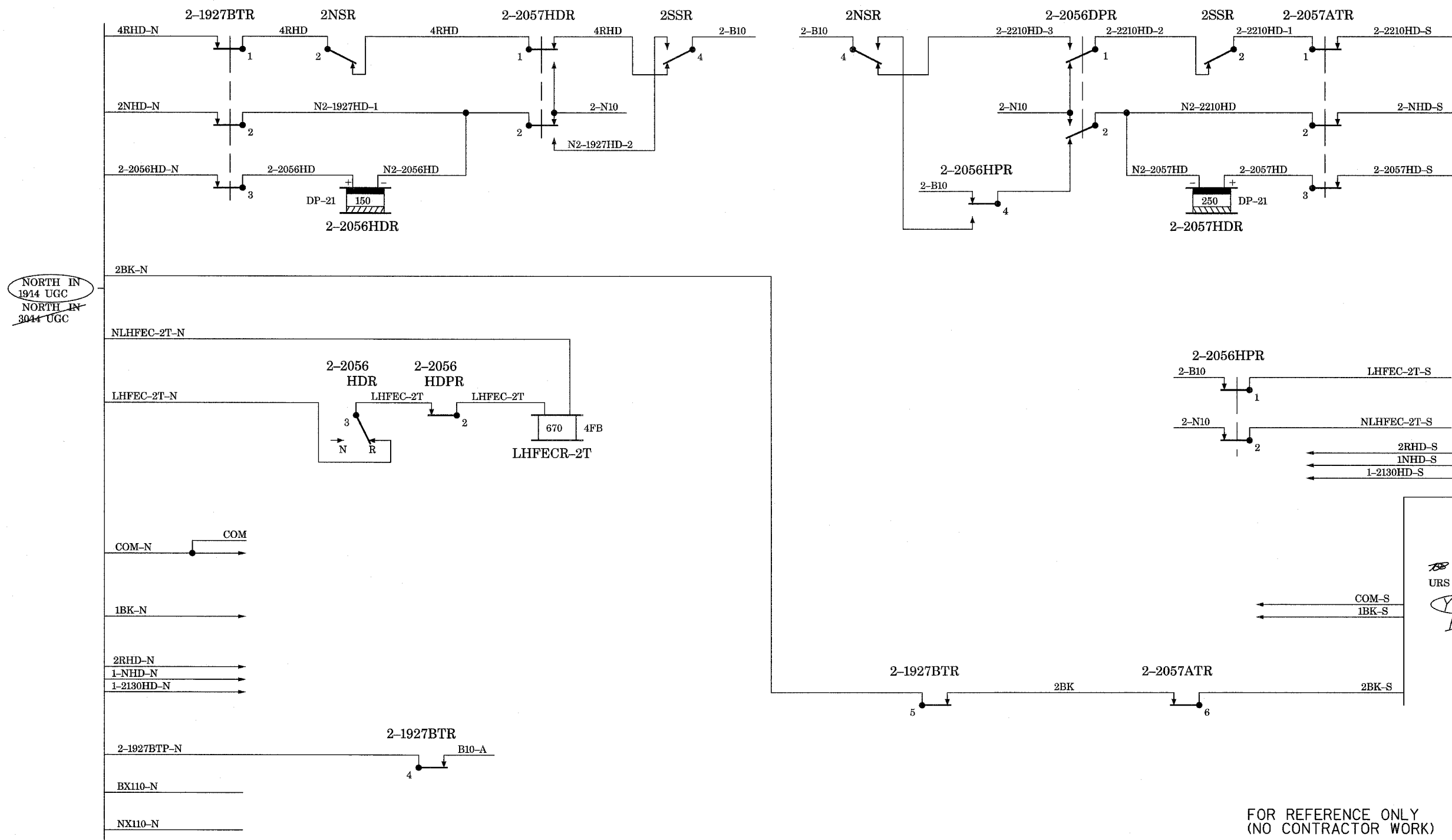
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	277
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

4/14/2008 11:43:53 AM

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NORTH IN  
1914 UGC  
NORTH IN  
3044 UGC

SOUTH IN  
1914 UGC  
SOUTH IN  
3044 UGC

11/30/06 OK  
URS 04/07/08 OK  
**YELLOW - IN**  
**RED - OUT**

CREW  
05/01/08

PHASE 1

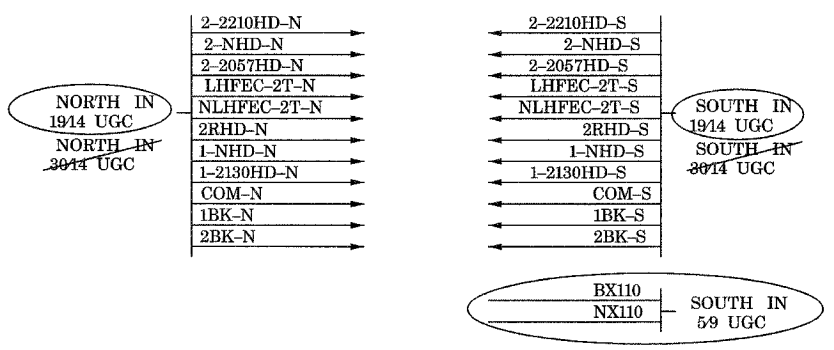
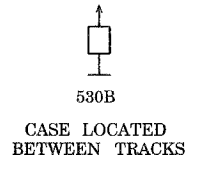
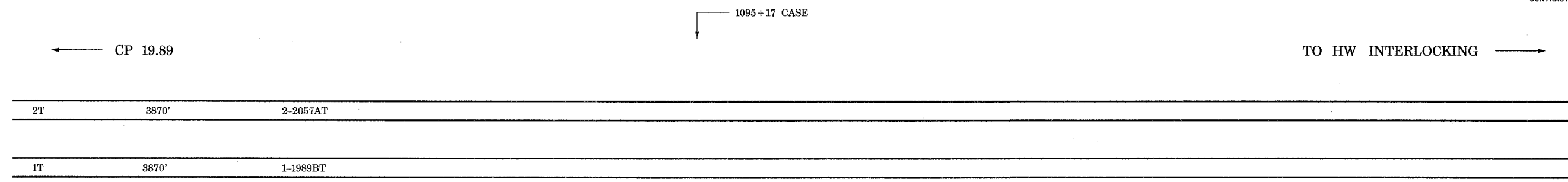
FOR REFERENCE ONLY  
(NO CONTRACTOR WORK)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 6 FROM I-294 TO IL RTE 1 METRA OVER 159TH STREET
NAME	DATE	
		METRA SIGNALS PHASE 1 (PRESTAGE) CASE 20.56 SH. 2

SHT. 56-10 OF 56-36      DRAWN BY AB  
DATE 4/11/2008      CHECKED BY MAD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	278
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

4/14/2008 11:43:54 AM



20.56

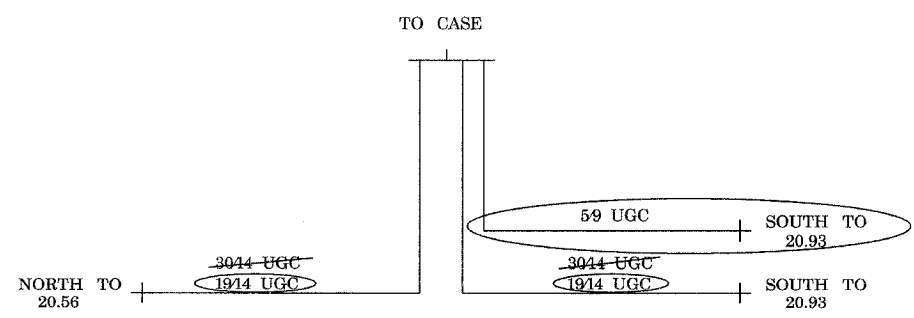
20.93

11/30/06 OK  
URS 04/07/08 OK

YELLOW - IN  
RED - OUT

CREW  
05/01/08

PHASE 1



FOR REFERENCE ONLY  
(NO CONTRACTOR WORK)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

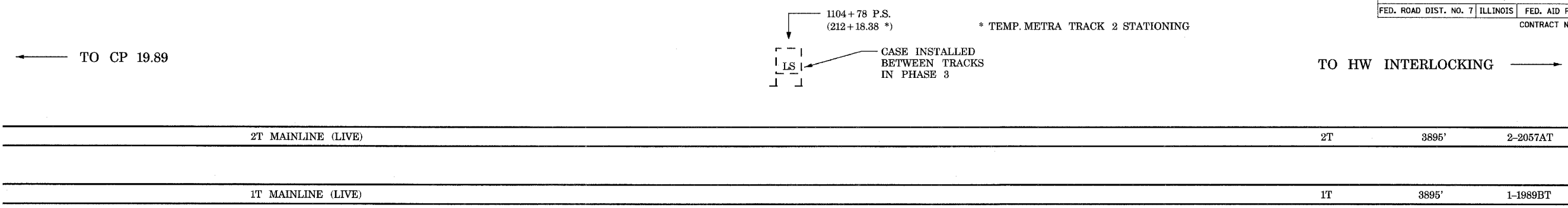
METRA SIGNALS  
PHASE 1 (PRESTAGE) CASE 20.74

SHT. SG-11 OF SG-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD

q:\17049\signal work for metra\plans\11-ref.dgn

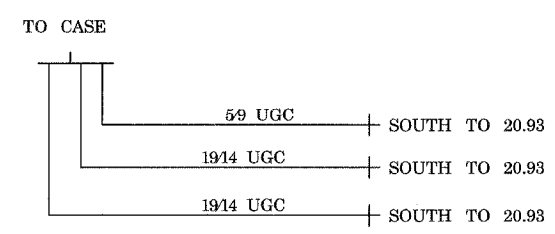
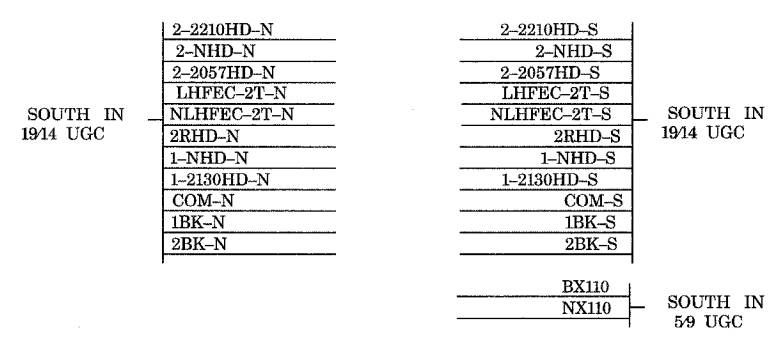
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	279
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				



4/14/2008 11:43:54 AM  
 q:\17049\signal work for metra\plans\12.ref.dgn

20.74

20.93



THIS SHEET  
 ALL NEW  
 CREW  
 05/01/08  
 PHASE 1

FOR REFERENCE ONLY  
 (NO CONTRACTOR WORK)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA OVER 159TH STREET

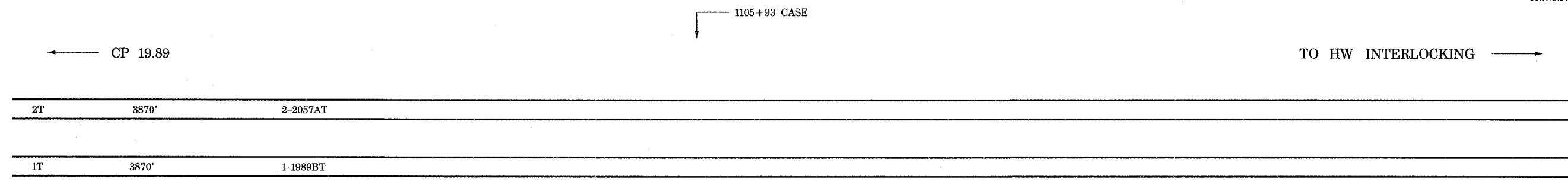
METRA SIGNALS  
 PHASE 1 (PRESTAGE) CASE 20.91

SHT. SG-12 OF SG-36  
 DATE 4/11/2008

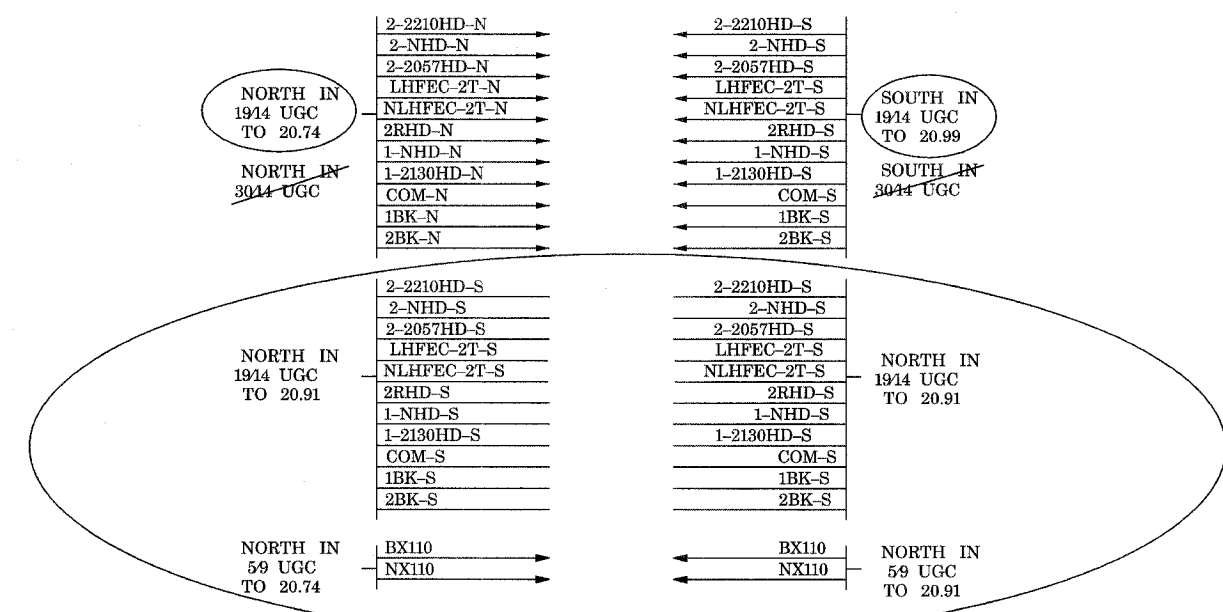
DRAWN BY AB  
 CHECKED BY MAD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	280
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

4/14/2008 11:43:55 AM  
c:\17049\059\signal work for metra\plans\13\_ref.dgn



530B  
CASE LOCATED  
BETWEEN TRACKS

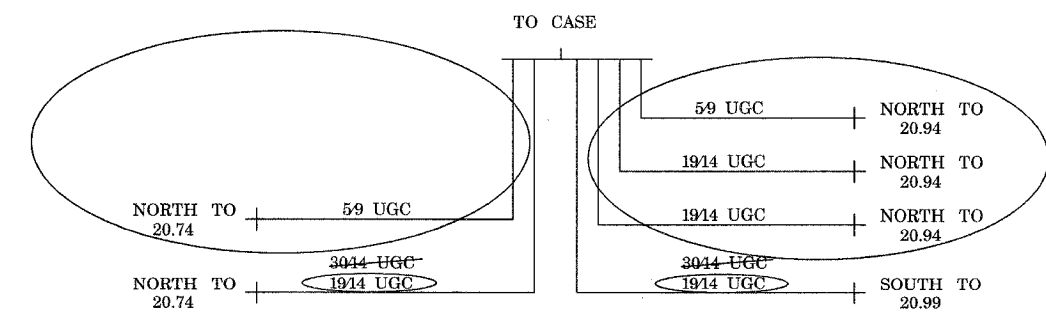


11/30/06 OK  
URS 04/08/08 OK

**YELLOW** - IN  
**RED** - OUT

CREW  
05/01/08

PHASE 1



NOTE:  
CASE 20.91 INSTALLED IN PHASE 3

FOR REFERENCE ONLY  
(NO CONTRACTOR WORK)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

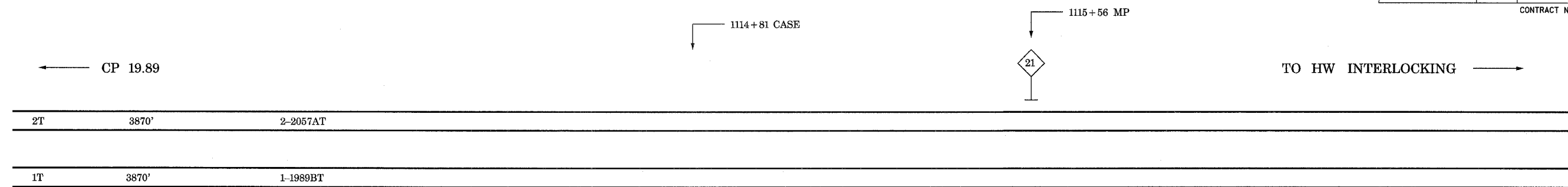
METRA SIGNALS  
PHASE 1 (PRESTAGE) CASE 20.93

SHT. SG-13 OF SG-36  
DATE 4/11/2008

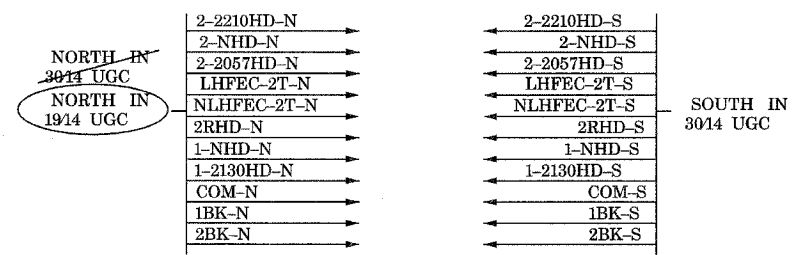
DRAWN BY AB  
CHECKED BY MAD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	281
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

4/14/2008 11:43:55 AM



530B  
CASE LOCATED  
BETWEEN TRACKS



20.93

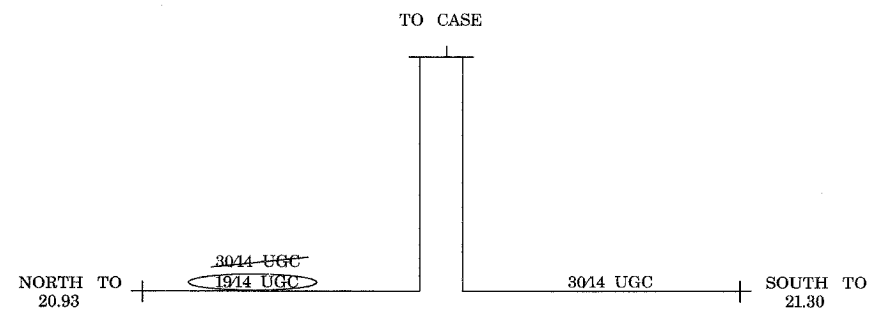
21.30

11/30/06 OK  
URS 04/08/08 OK

YELLOW - IN  
RED - OUT

CREW  
05/01/08

PHASE 1



FOR REFERENCE ONLY  
(NO CONTRACTOR WORK)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 1 (PRESTAGE) CASE 20.99

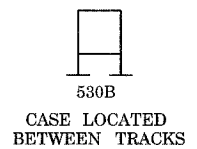
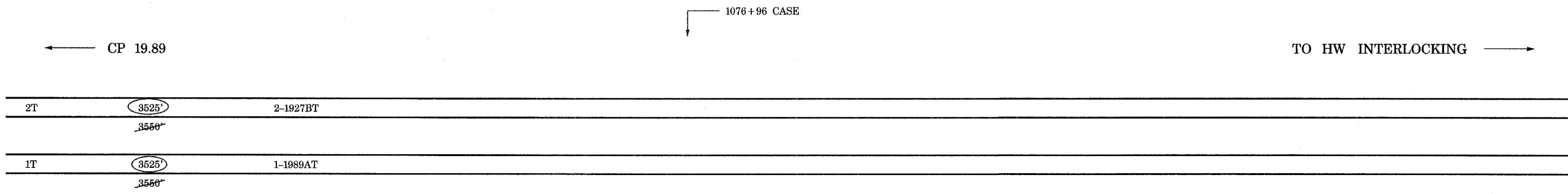
SHT. SG-14 OF SG-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD

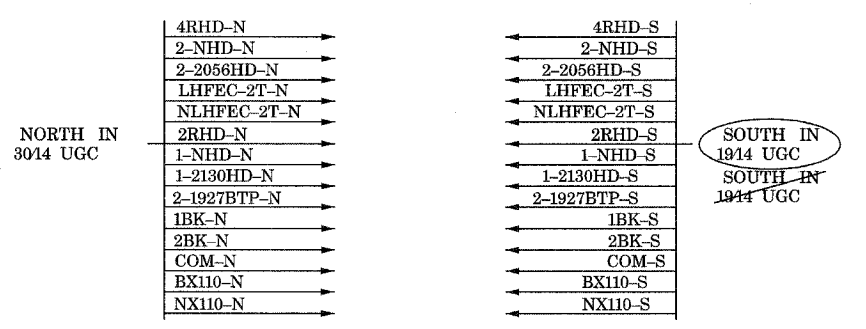
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	282
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

4/14/2008 11:43:56 AM



20.16



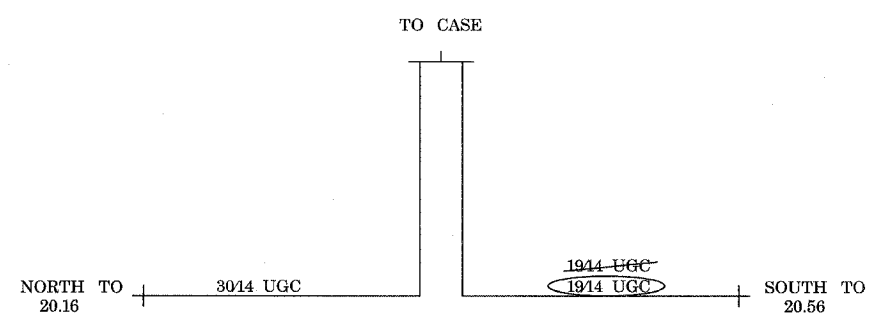
20.56

11/30/06 OK  
URS 04/09/08 OK

YELLOW - IN  
RED - OUT

CREW  
03/01/09

PHASE 2



FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 2 (SIG. RELOC.) CASE 20.40

SHT. SG-15 OF SG-36  
DATE 4/11/2008

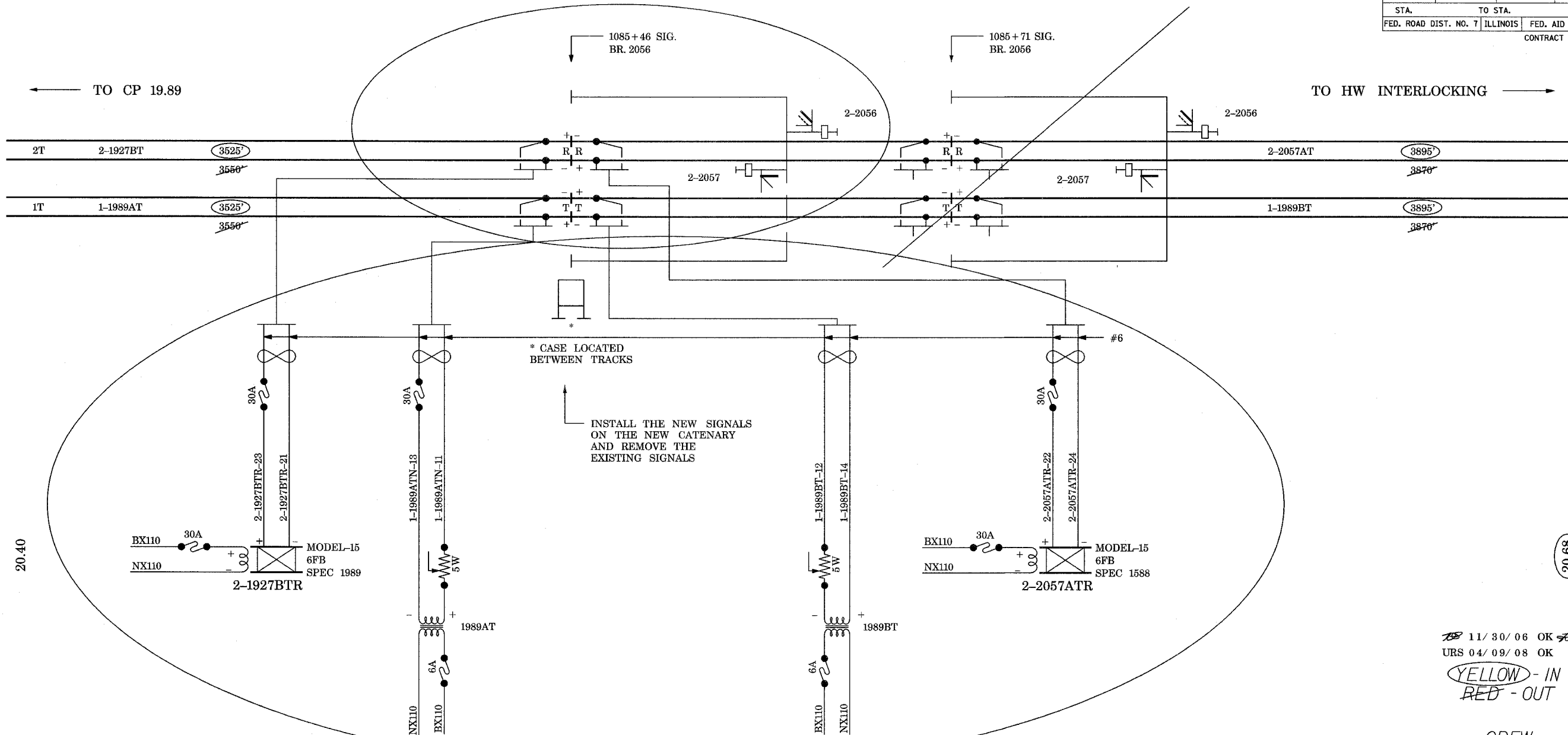
DRAWN BY AB  
CHECKED BY MAD

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	283
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60E10				



20.40

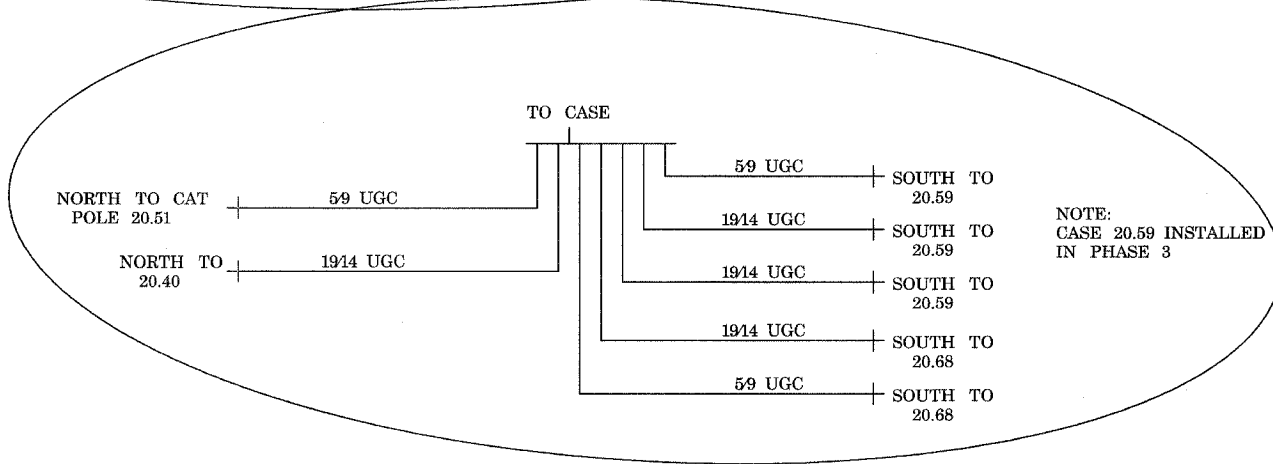
20.68

11/30/06 OK  
URS 04/09/08 OK

YELLOW - IN  
RED - OUT

CREW  
03/01/09

PHASE 2



FOR REFERENCE ONLY  
(METRA WORK USING CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

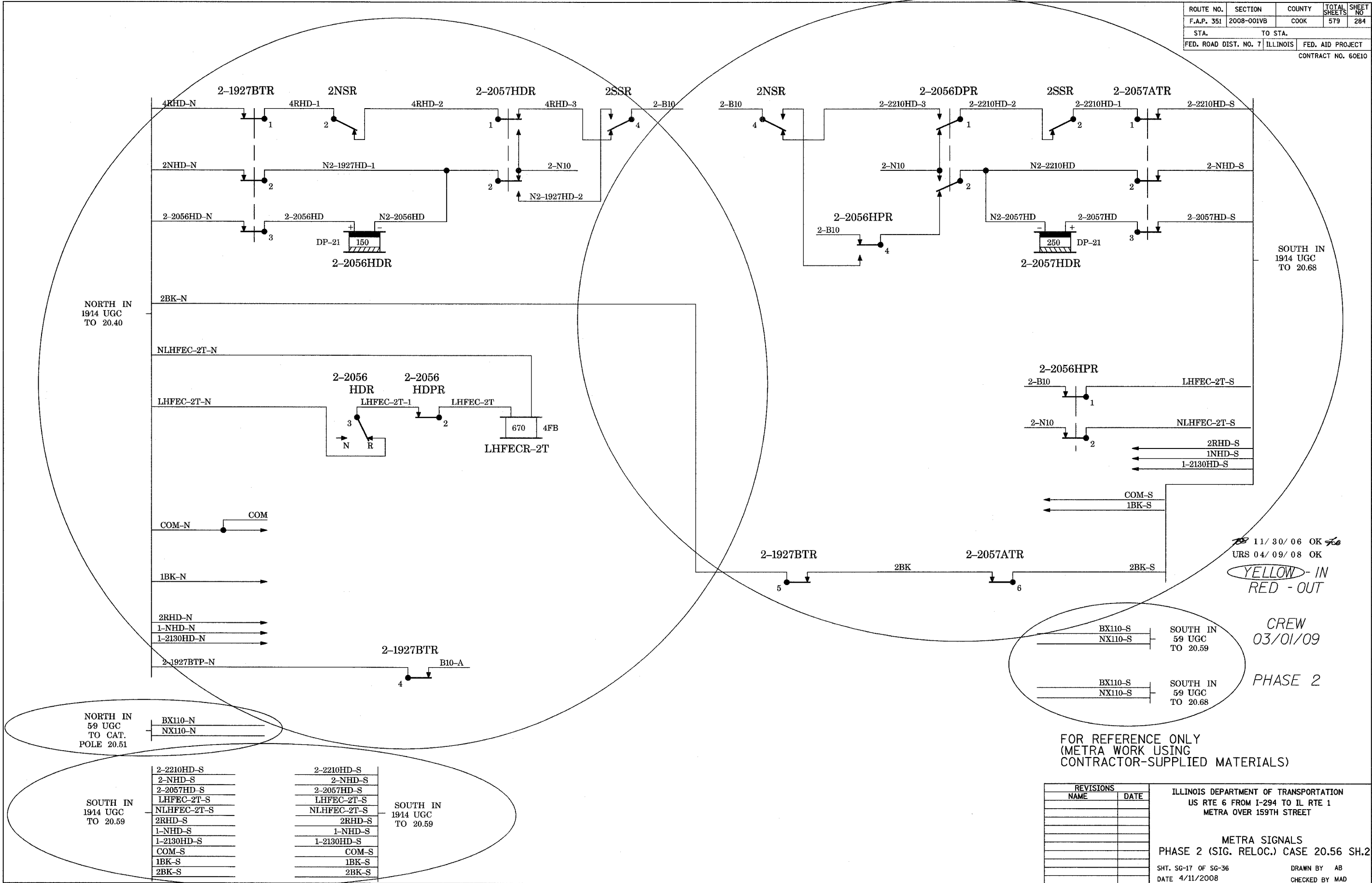
METRA SIGNALS  
PHASE 2 (SIG. RELOC.) CASE 20.56 SH.1

SHT. 56-16 OF 56-36 DRAWN BY AB  
DATE 4/11/2008 CHECKED BY MAD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	284
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 60E10				

4/14/2008 11:43:57 AM

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NORTH IN  
1914 UGC  
TO 20.40

SOUTH IN  
1914 UGC  
TO 20.68

NORTH IN  
59 UGC  
TO CAT.  
POLE 20.51

SOUTH IN  
1914 UGC  
TO 20.59

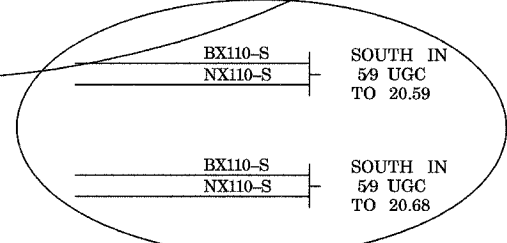
2-2210HD-S	2-2210HD-S	SOUTH IN 1914 UGC TO 20.59
2-NHD-S	2-NHD-S	
2-2057HD-S	2-2057HD-S	
LHFEC-2T-S	LHFEC-2T-S	
NLHFEC-2T-S	NLHFEC-2T-S	
2RHD-S	2RHD-S	
1-NHD-S	1-NHD-S	
1-2130HD-S	1-2130HD-S	
COM-S	COM-S	
1BK-S	1BK-S	
2BK-S	2BK-S	

11/30/06 OK *to*  
URS 04/09/08 OK

YELLOW - IN  
RED - OUT

CREW  
03/01/09

PHASE 2



FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 2 (SIG. RELOC.) CASE 20.56 SH.2

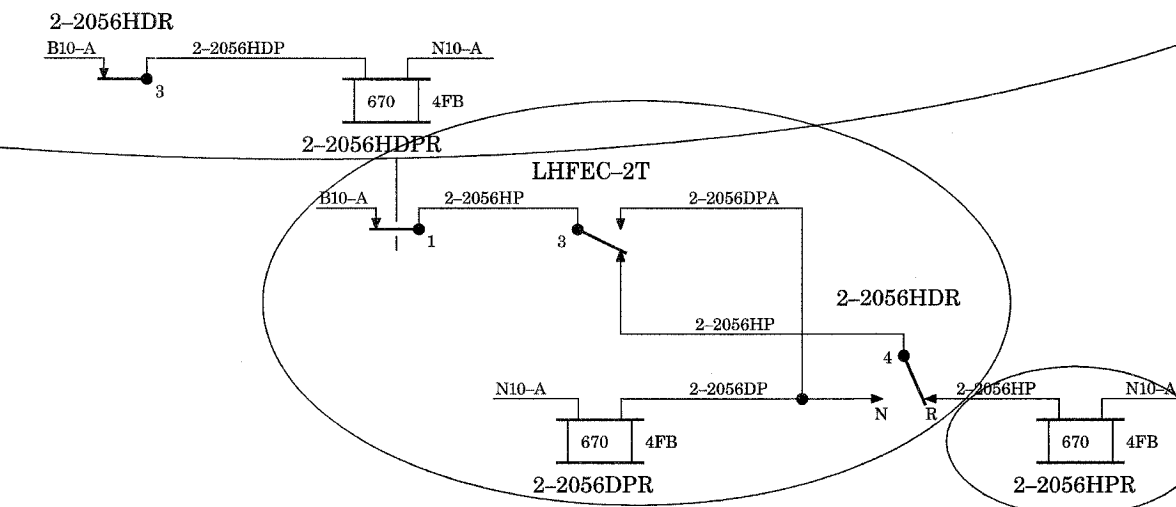
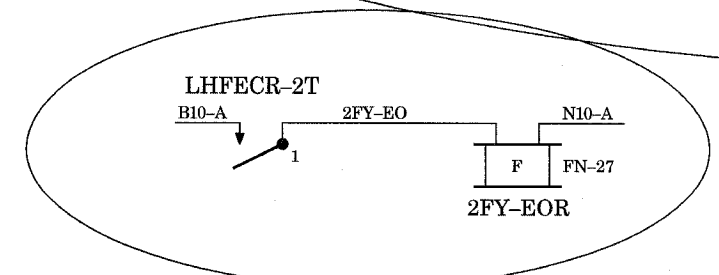
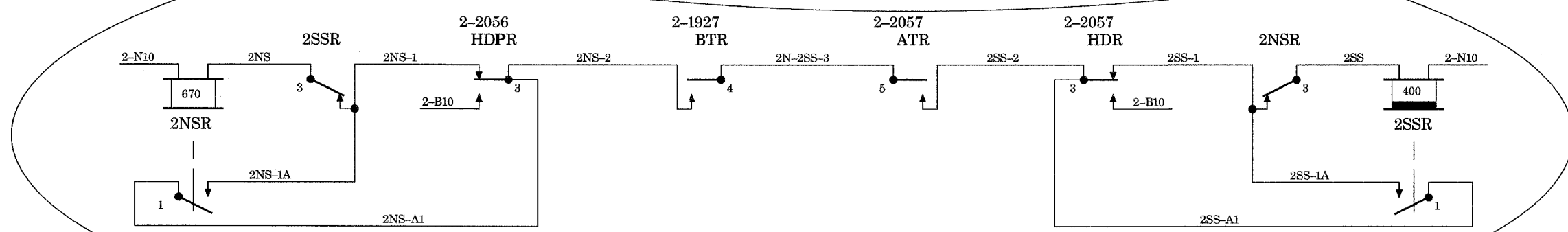
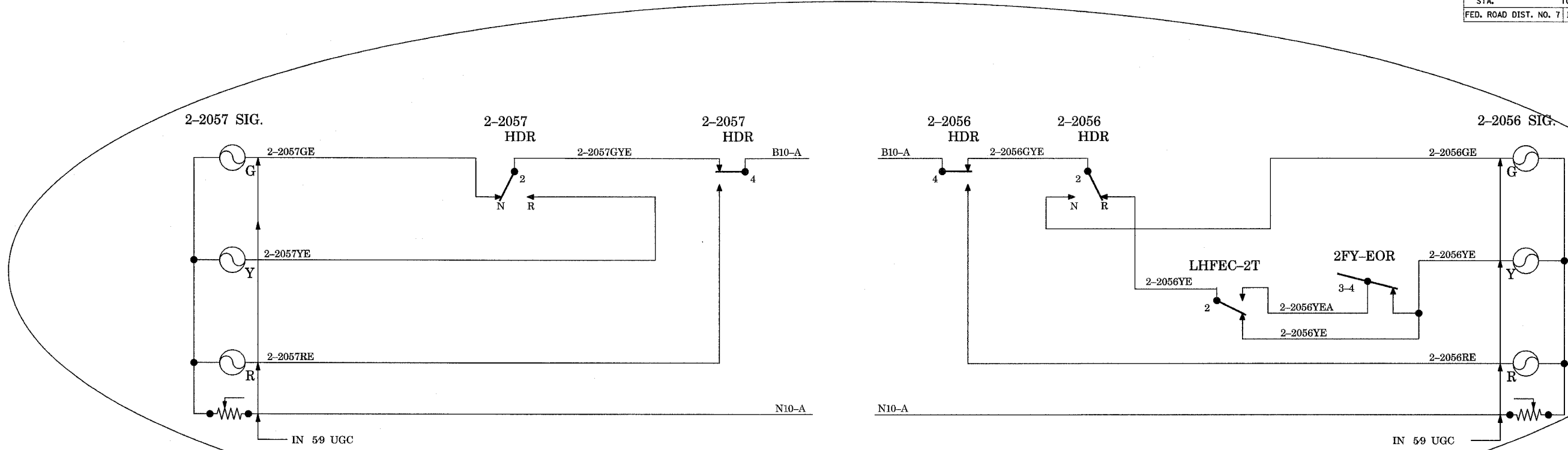
SHT. SG-17 OF SG-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	285
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 60E10				

4/14/2008 11:43:57 AM



11/30/06 OK  
 URS 11/30/06 OK  
 YELLOW - IN  
 RED - OUT

CREW  
 03/01/09  
 PHASE 2

FOR REFERENCE ONLY  
 (METRA WORK USING  
 CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA OVER 159TH STREET

METRA SIGNALS  
 PHASE 2 (SIG. RELOC.) CASE 20.56 SH.3

SHT. 56-18 OF 56-36  
 DATE 4/11/2008

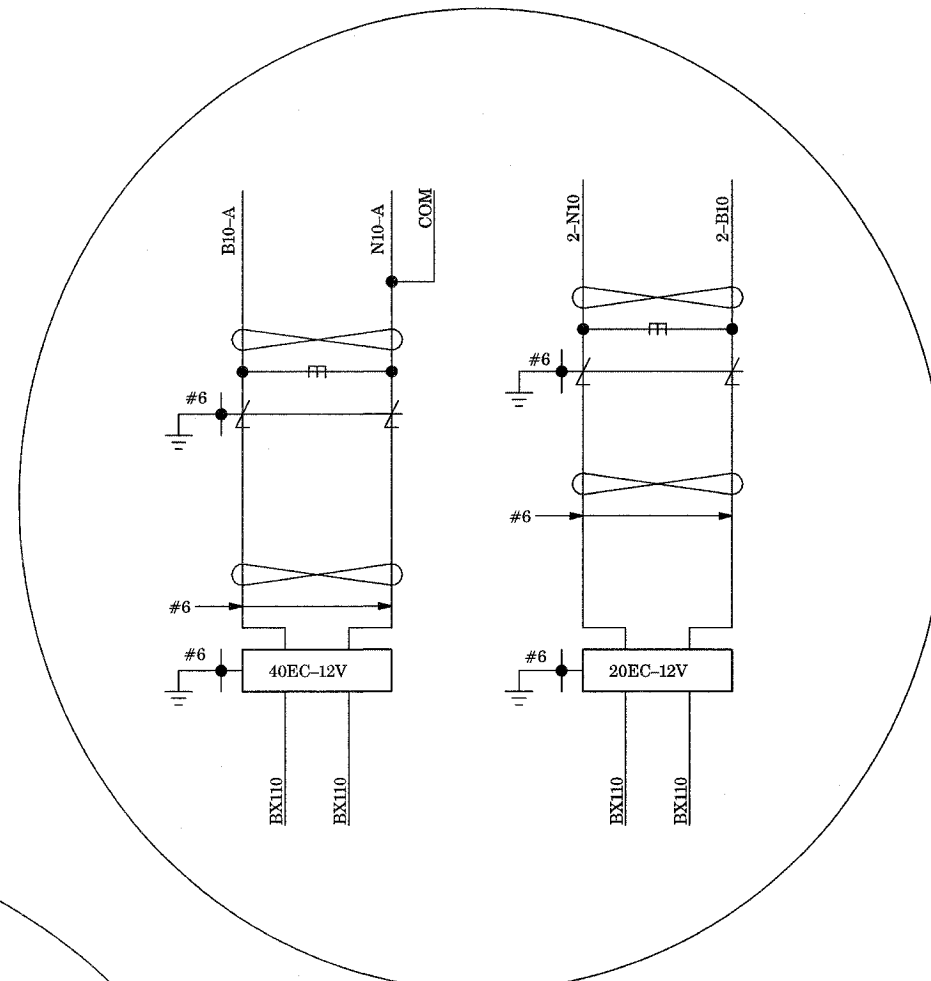
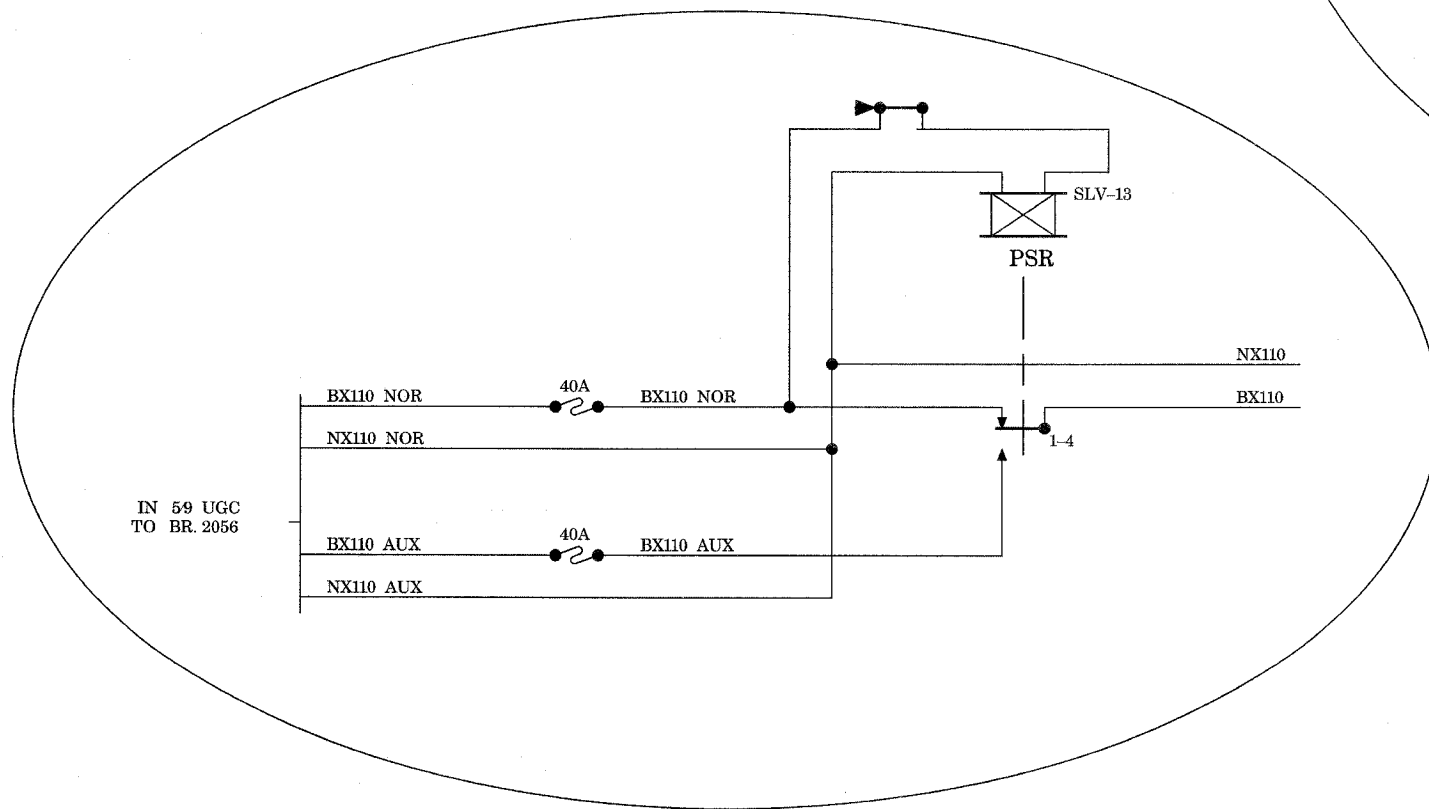
DRAWN BY AB  
 CHECKED BY MAD

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	286
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

4/14/2008 11:43:58 AM

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11/30/06 OK

URS 11/30/06 OK

YELLOW - IN  
RED - OUT

CREW  
03/01/09

PHASE 2

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 2 (SIG. RELOC.) CASE 20.56 SH.4

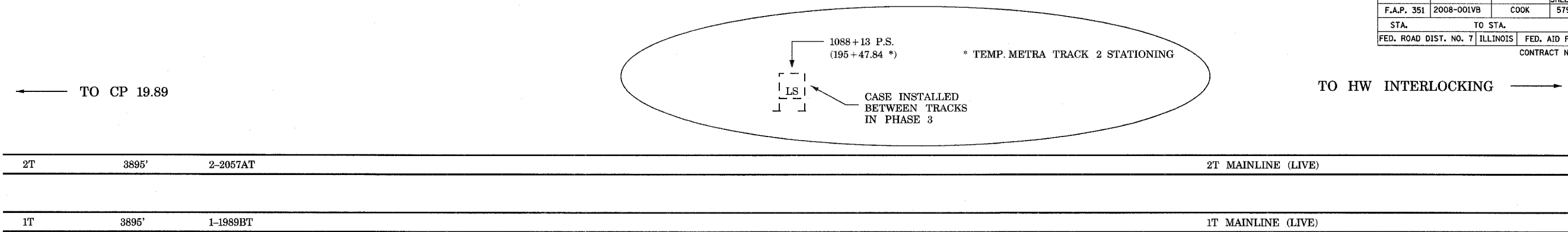
SHT. 56-19 OF 56-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD

4/14/2008 11:43:58 AM

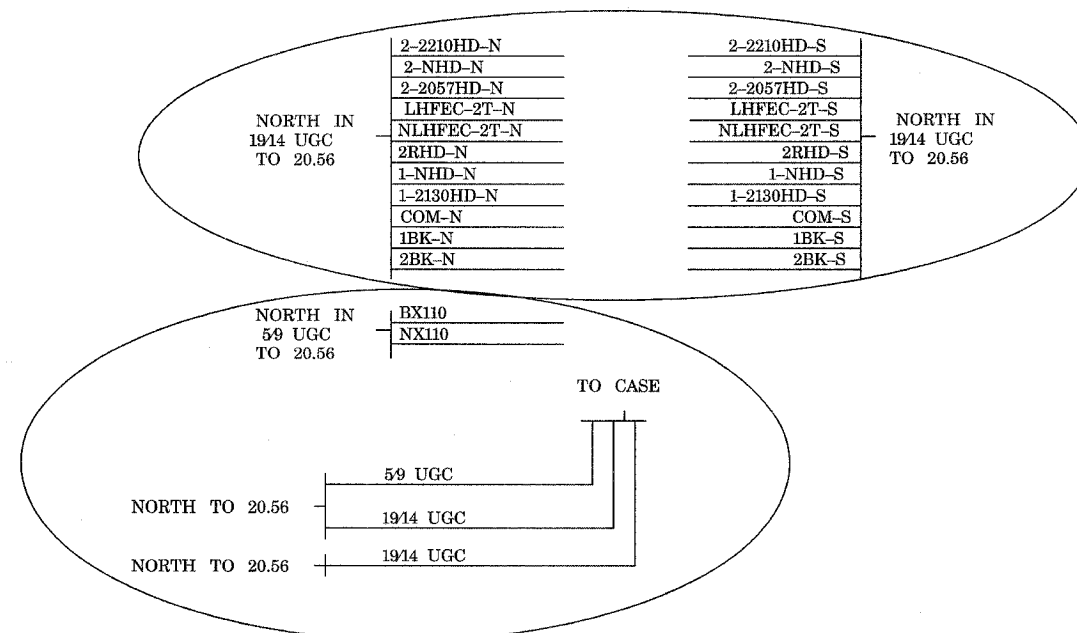
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	287
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				



20.56

20.68



THIS SHEET ALL NEW

CREW 03/01/09

PHASE 2

FOR REFERENCE ONLY  
(METRA WORK USING CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 2 (SIG. RELOC.) CASE 20.59

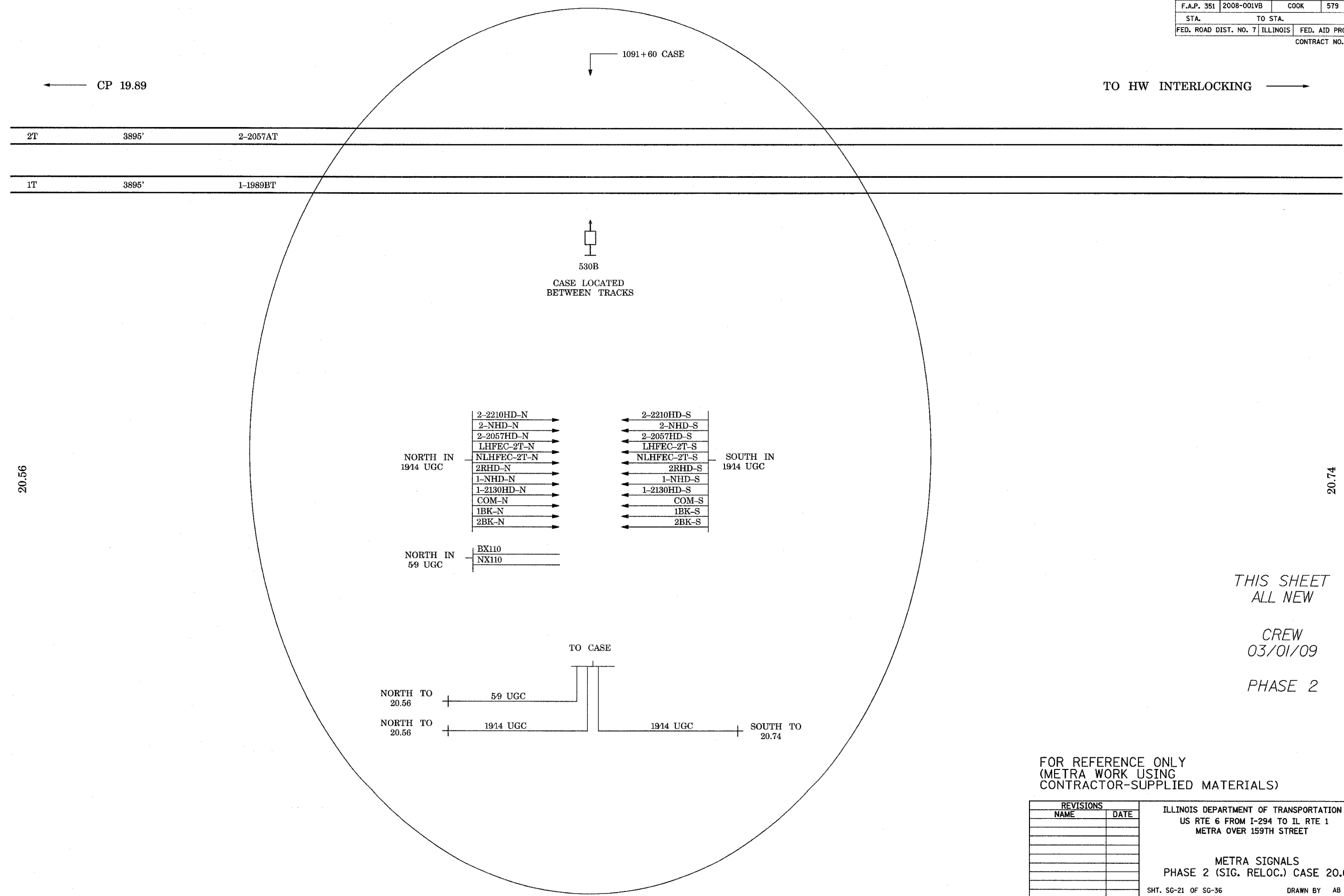
SHT. 56-20 OF 56-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	288
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 60E10	

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THIS SHEET  
ALL NEW

CREW  
03/01/09

PHASE 2

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

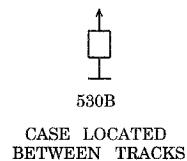
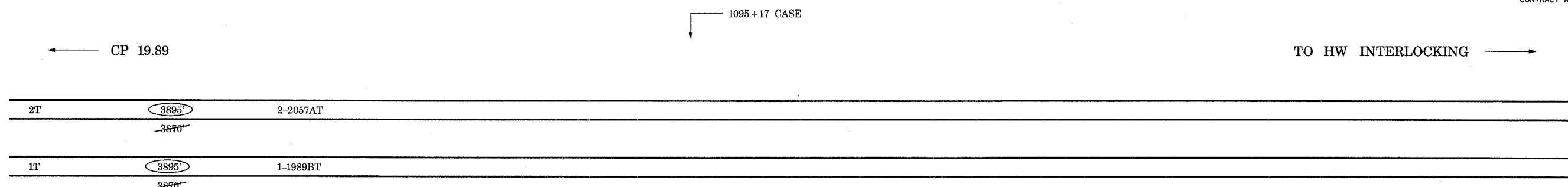
METRA SIGNALS  
PHASE 2 (SIG. RELOC.) CASE 20.68

SHT. SG-21 OF SG-36  
DATE 4/11/2008

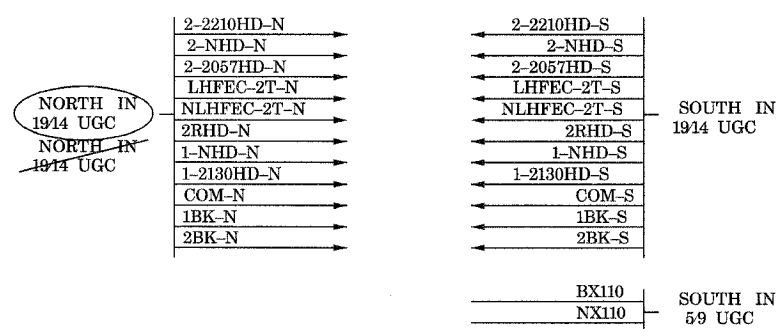
DRAWN BY AB  
CHECKED BY MAD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	289
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

4/14/2008 11:43:59 AM



20.68  
20.56



11/30/06 OK

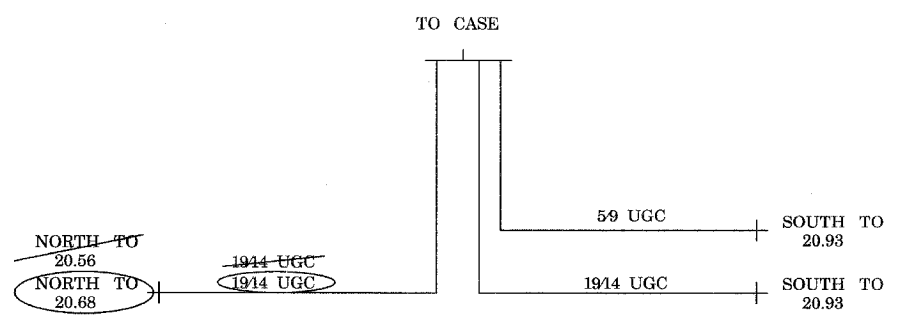
URS 04/10/08 OK

YELLOW - IN

RED - OUT

CREW 03/01/09

PHASE 2



FOR REFERENCE ONLY (METRA WORK USING CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

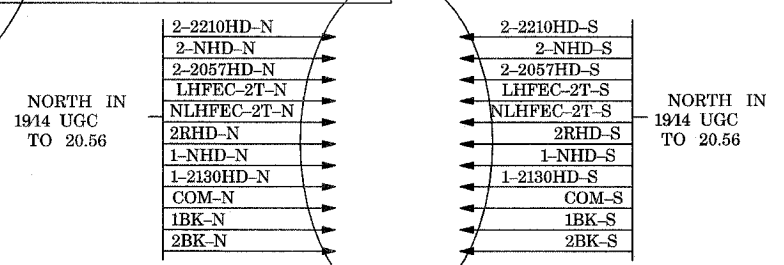
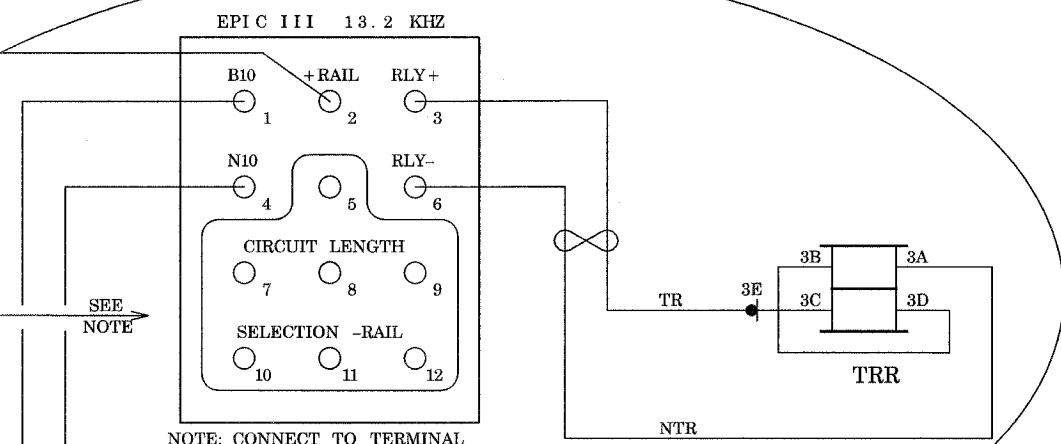
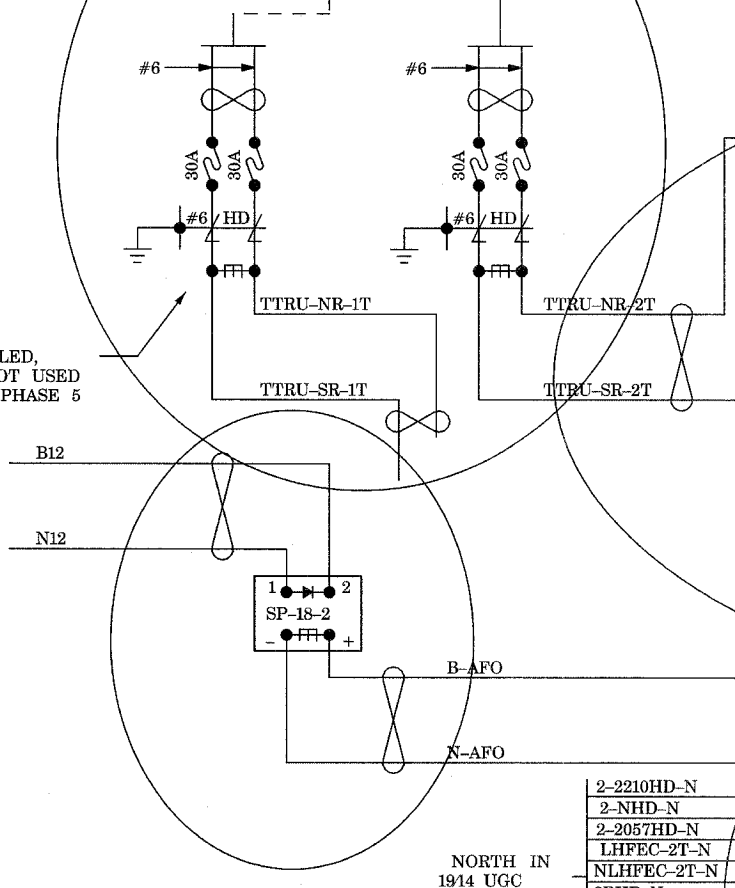
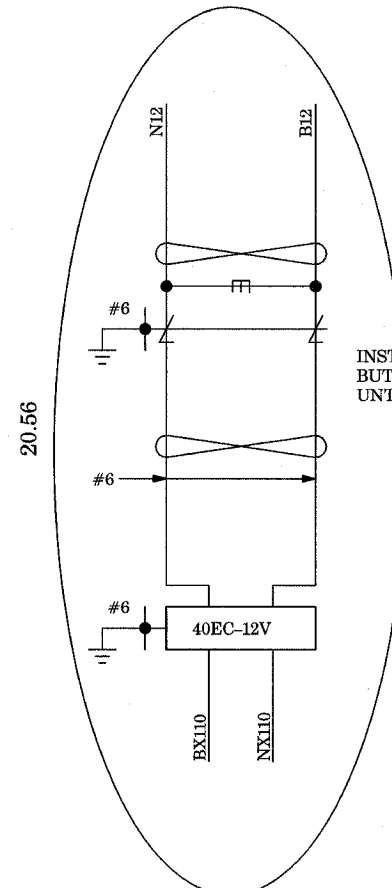
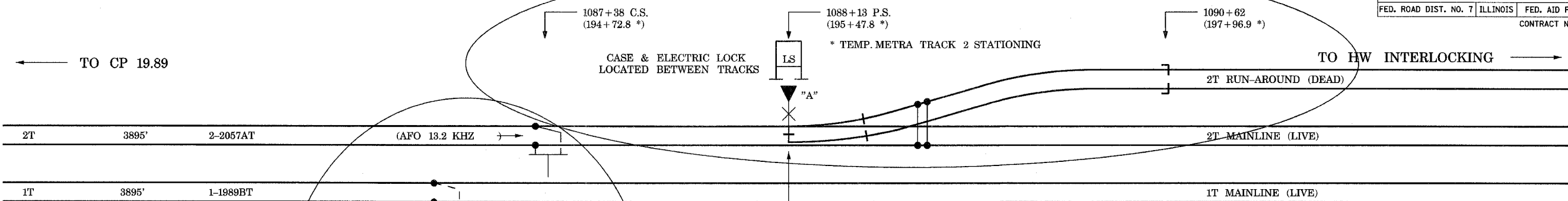
METRA SIGNALS  
PHASE 2 (SIG. RELOC.) CASE 20.74

SHT. SG-22 OF SG-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD

q:\17049\signal work for metra\plans\22\_ref.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	290
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO. 7	ILLINOIS		CONTRACT NO. 60E10	



URS 04/10/08 OK

YELLOW - IN  
RED - OUT

CREW  
07/15/09

PHASE 3

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 3 (STAGE 1) CASE 20.59 SH. 1

SHT. SG-23 OF SG-36  
DATE 4/11/2008

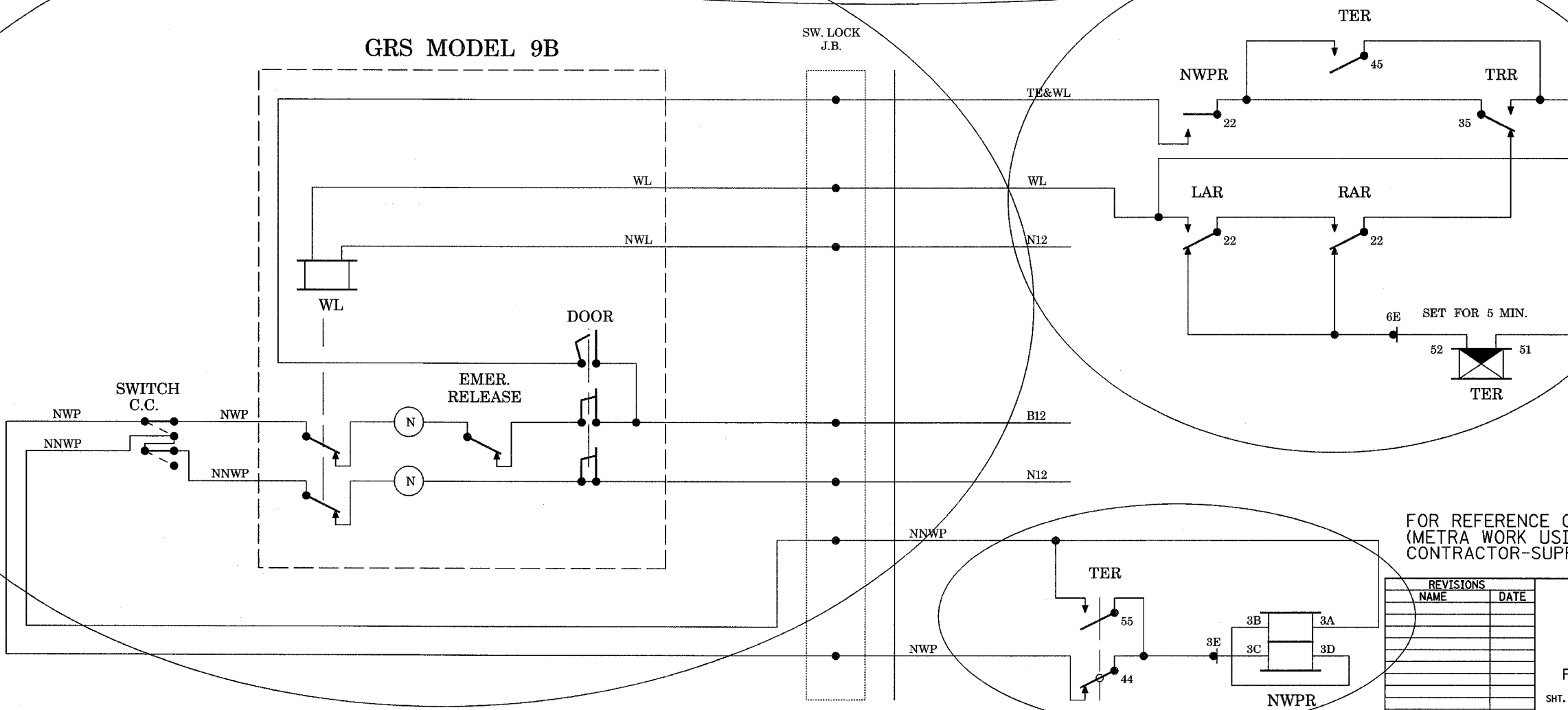
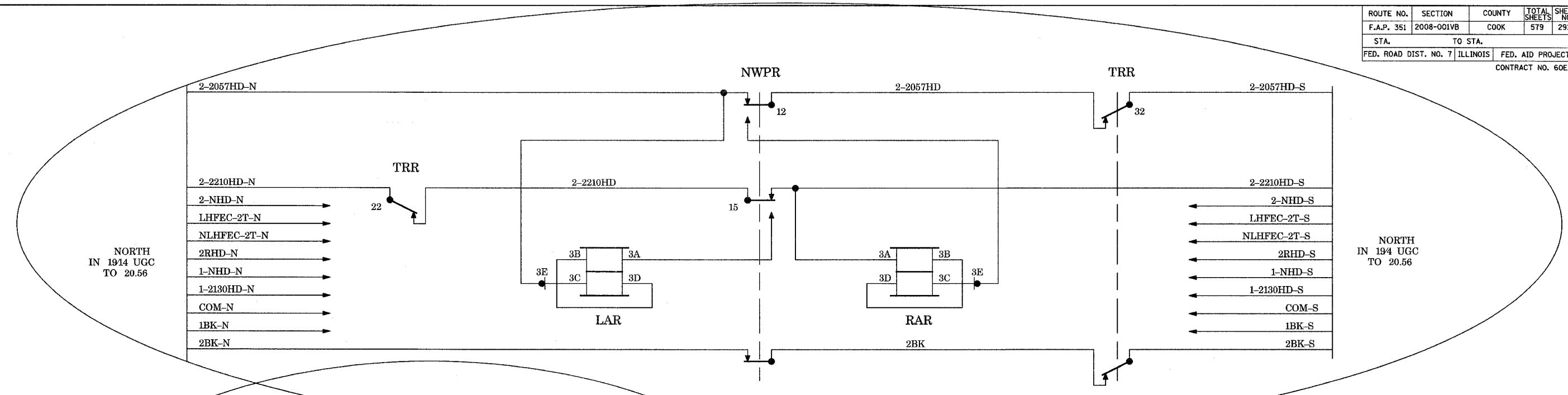
DRAWN BY AB  
CHECKED BY MAD

4/14/2008 11:43:59 AM

c:\17049,069\signal work for metra\plans\23\_ref.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	291
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO. 7	ILLINOIS		CONTRACT NO. 60E10	

4/14/2008 11:44:00 AM



THIS SHEET  
ALL NEW  
  
CREW  
07/15/09

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

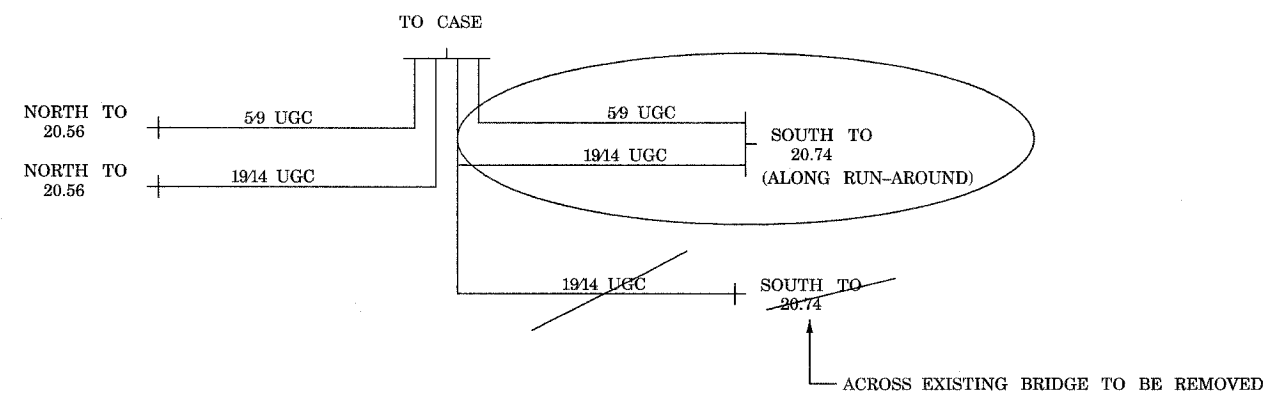
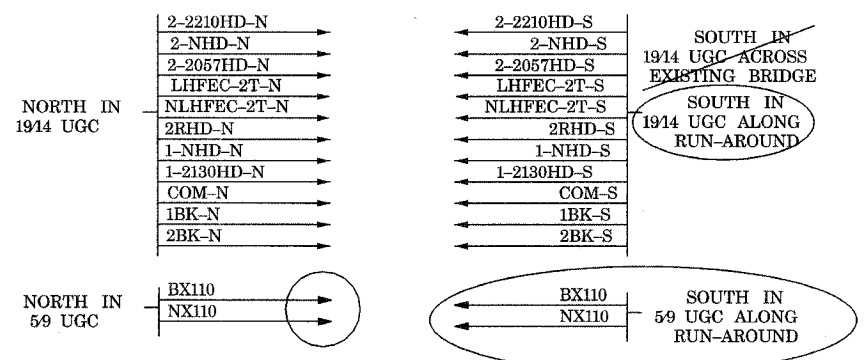
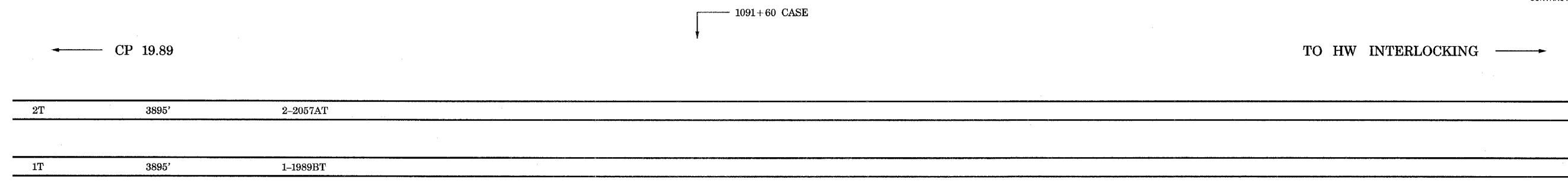
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET  
  
METRA SIGNALS  
PHASE 3 (STAGE 1) CASE 20.59 SH.2  
SHT. 56-24 OF 56-36 DRAWN BY AB  
DATE 4/11/2008 CHECKED BY MAD

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001WB	COOK	579	292
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60E10				

4/14/2008 11:44:00 AM



URS 04/10/08 OK

~~YELLOW~~ - IN  
RED - OUT

CREW  
07/15/09

PHASE 3

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 3 (STAGE 1) CASE 20.68

SHT. SG-25 OF SG-36  
DATE 4/11/2008

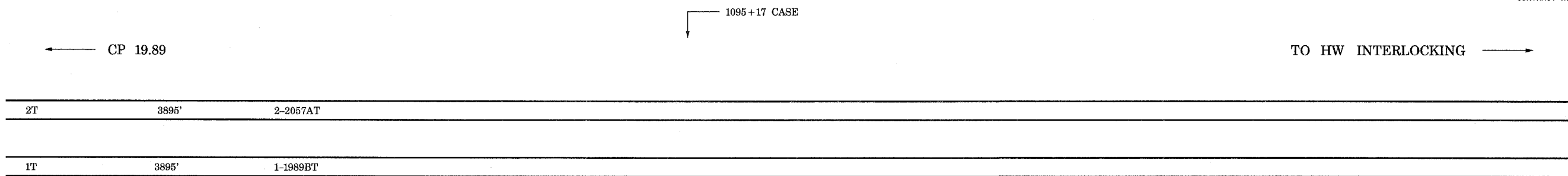
DRAWN BY AB  
CHECKED BY MAD

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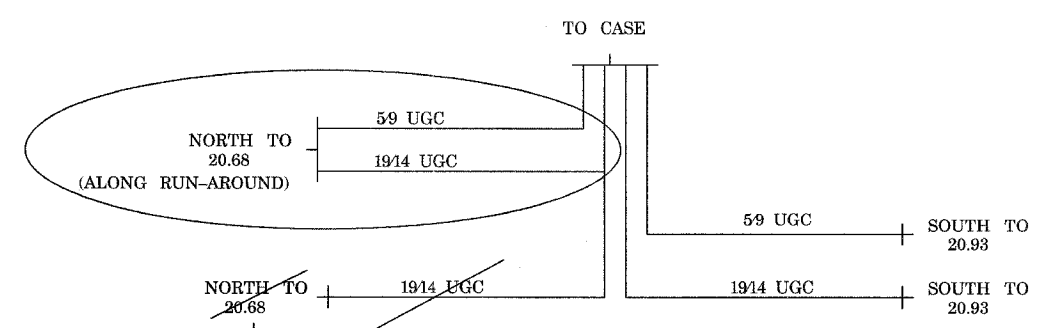
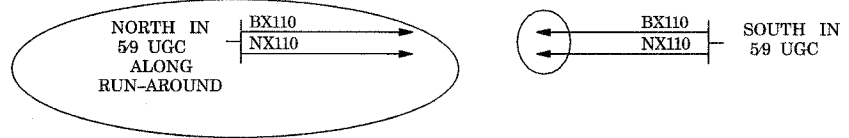
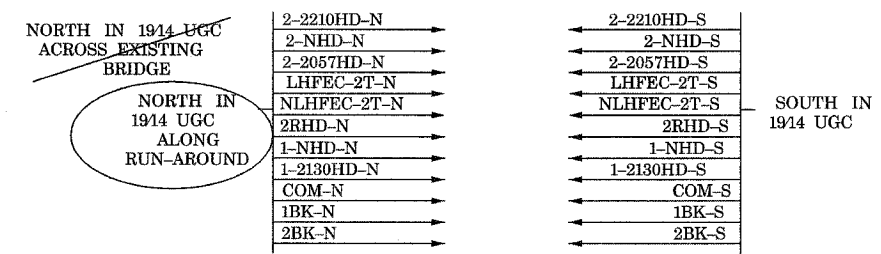
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	293
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

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20.68

20.93



ACROSS EXISTING BRIDGE TO BE REMOVED

11/30/06 OK  
 URS 04/10/08 OK  
 YELLOW - IN  
 RED - OUT

CREW  
 07/15/09

PHASE 3

FOR REFERENCE ONLY  
 (METRA WORK USING  
 CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 FROM I-294 TO IL RTE 1  
 METRA OVER 159TH STREET

METRA SIGNALS  
 PHASE 3 (STAGE 1) CASE 20.74

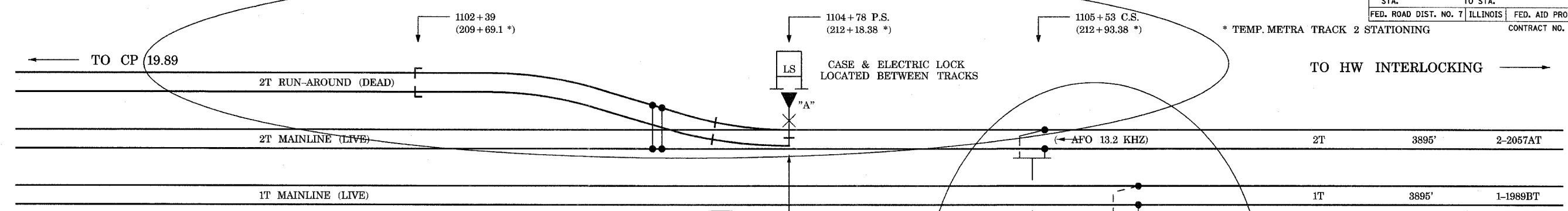
SHT. 56-26 OF 56-36  
 DATE 4/11/2008

DRAWN BY AB  
 CHECKED BY MAD

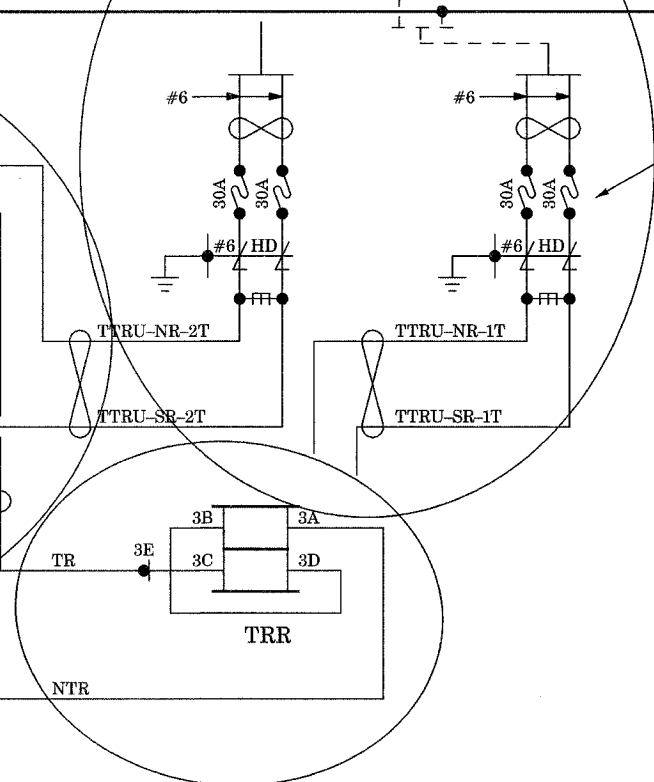
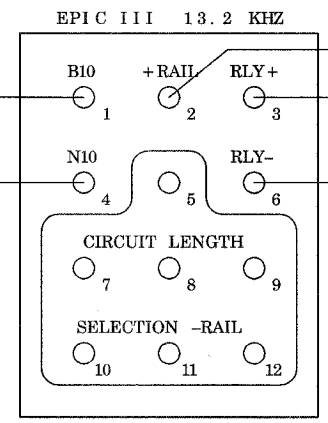
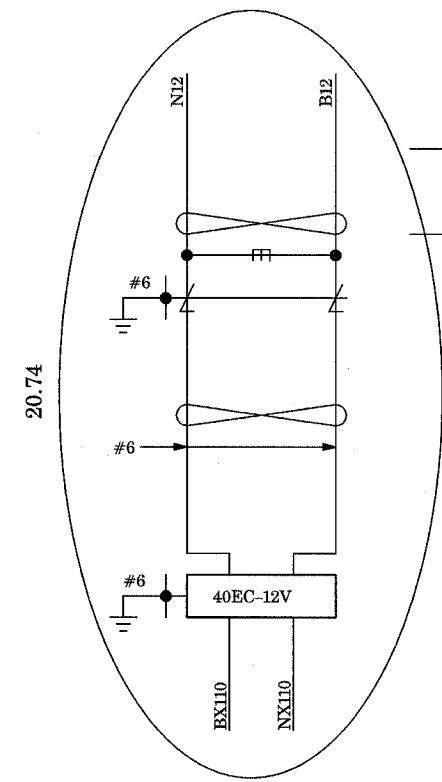
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	294
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10

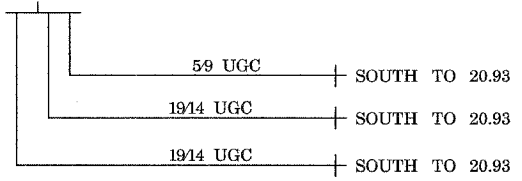
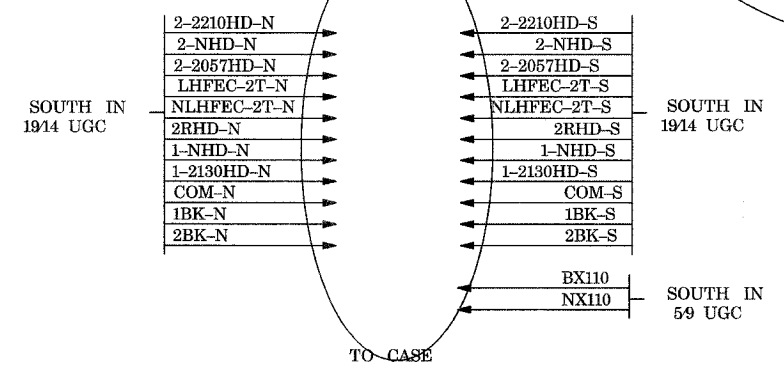
\* TEMP. METRA TRACK 2 STATIONING



INSTALL ELECTRIC LOCK ON 2T WITH ML NORMAL (INSTALL PROPULSION WIRE).



INSTALLED, BUT NOT USED UNTIL PHASE 5



URS 04/10/08 OK

YELLOW - IN  
RED - OUT

CREW  
07/15/09

PHASE 3

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 3 (STAGE 1) CASE 20.91 SH.1

SHT. SG-27 OF SG-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD

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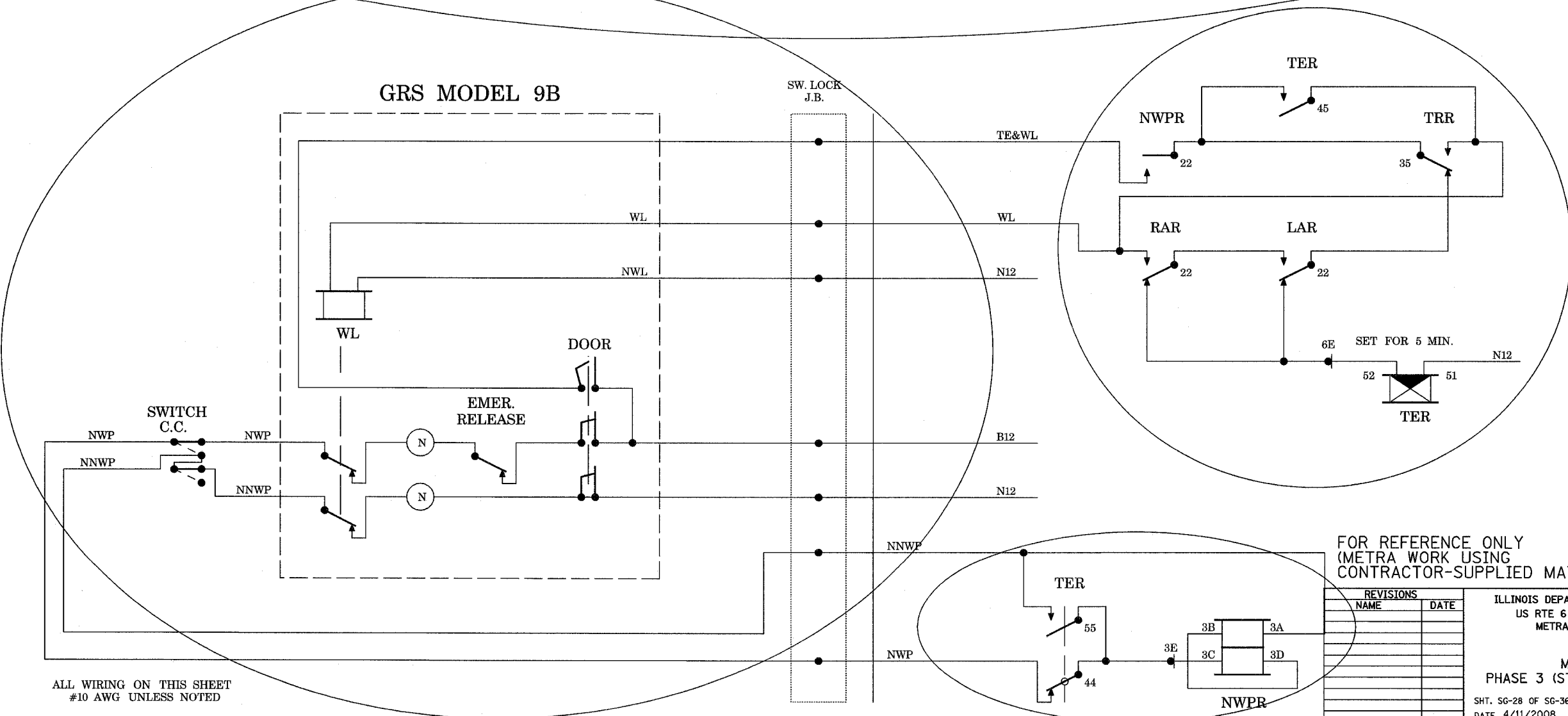
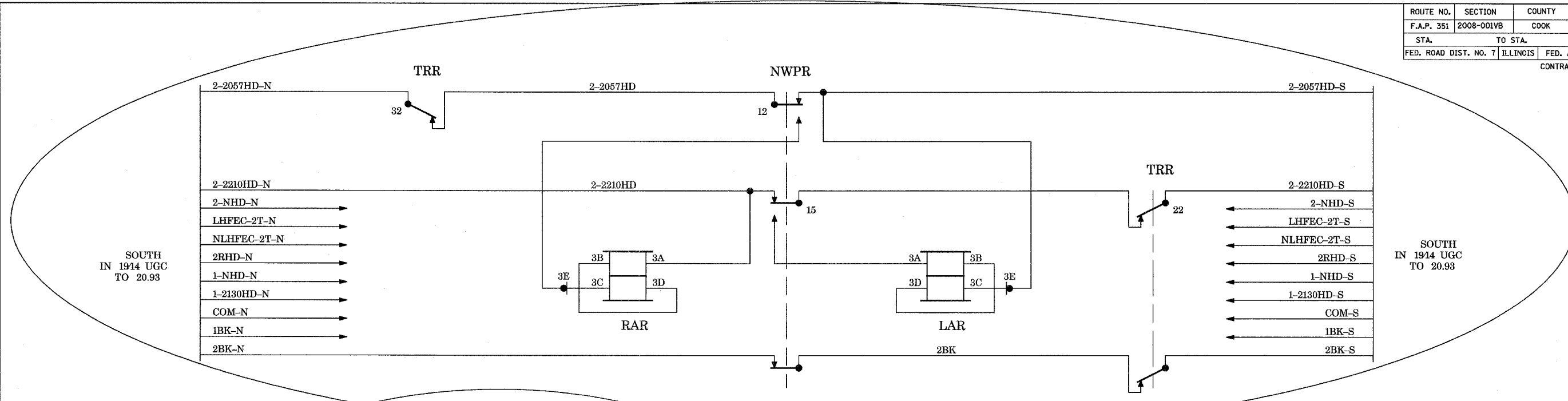
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20.74

20.93

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	295
STA. TO STA.		FED. AID PROJECT		
FED. ROAD DIST. NO. 7		ILLINOIS		
CONTRACT NO. 60E10				

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THIS SHEET  
ALL NEW  
  
CREW  
07/15/09  
  
PHASE 3

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

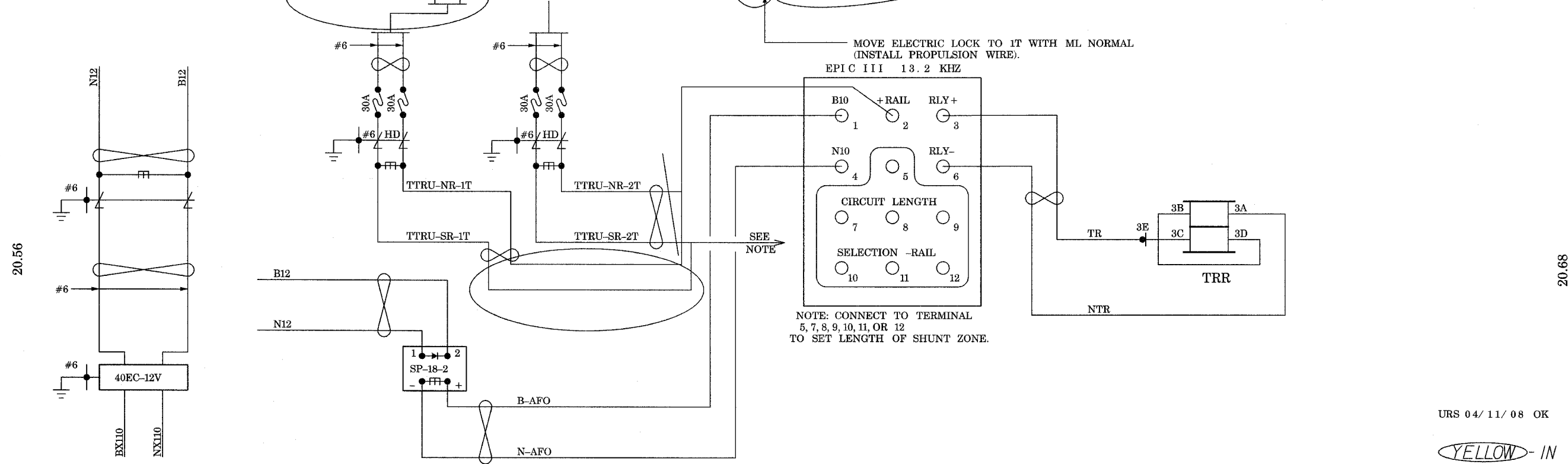
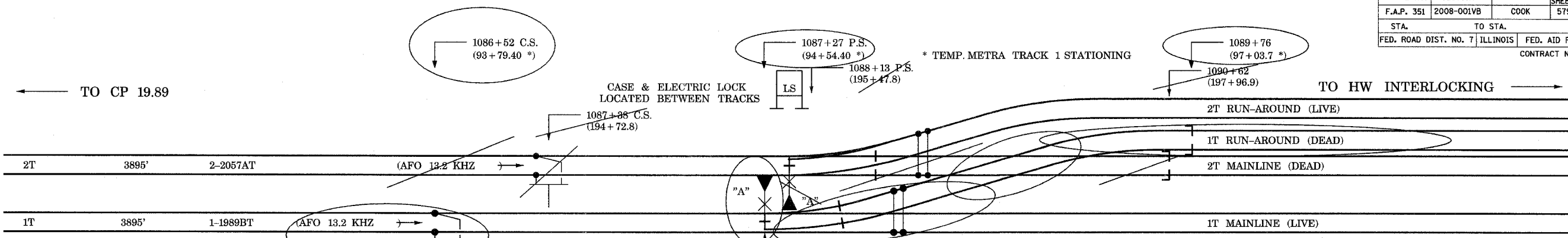
METRA SIGNALS  
PHASE 3 (STAGE 1) CASE 20.91 SH.2

SHT. SG-28 OF SG-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD

ALL WIRING ON THIS SHEET  
#10 AWG UNLESS NOTED

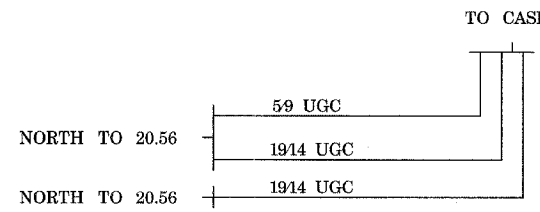
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	296
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60E10				



NOTE: CONNECT TO TERMINAL 5, 7, 8, 9, 10, 11, OR 12 TO SET LENGTH OF SHUNT ZONE.

- |                                  |  |                                  |  |
|----------------------------------|--|----------------------------------|--|
| NORTH IN<br>1914 UGC<br>TO 20.56 | <ul style="list-style-type: none"> <li>2-2210HD-N</li> <li>2-NHD-N</li> <li>2-2057HD-N</li> <li>LHFEC-2T-N</li> <li>NLHFEC-2T-N</li> <li>2RHD-N</li> <li>1-NHD-N</li> <li>1-2130HD-N</li> <li>COM-N</li> <li>1BK-N</li> <li>2BK-N</li> </ul> | NORTH IN<br>1914 UGC<br>TO 20.56 | <ul style="list-style-type: none"> <li>2-2210HD-S</li> <li>2-NHD-S</li> <li>2-2057HD-S</li> <li>LHFEC-2T-S</li> <li>NLHFEC-2T-S</li> <li>2RHD-S</li> <li>1-NHD-S</li> <li>1-2130HD-S</li> <li>COM-S</li> <li>1BK-S</li> <li>2BK-S</li> </ul> |
|----------------------------------|--|----------------------------------|--|

- |                                |  |
|--------------------------------|--|
| NORTH IN<br>59 UGC<br>TO 20.56 | <ul style="list-style-type: none"> <li>BX110</li> <li>NX110</li> </ul> |
|--------------------------------|--|



URS 04/11/08 OK

~~YELLOW~~ - IN  
RED - OUT

CREW  
08/25/09

PHASE 5

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 5 (STAGE 3 & 4) CASE 20.59

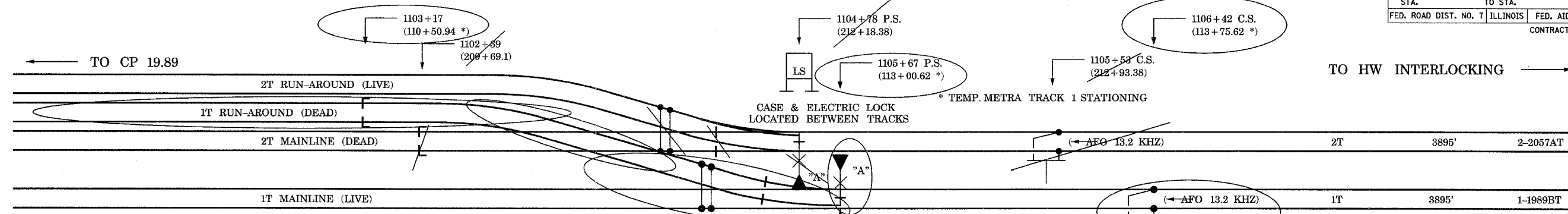
SHT. 56-29 OF 56-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD

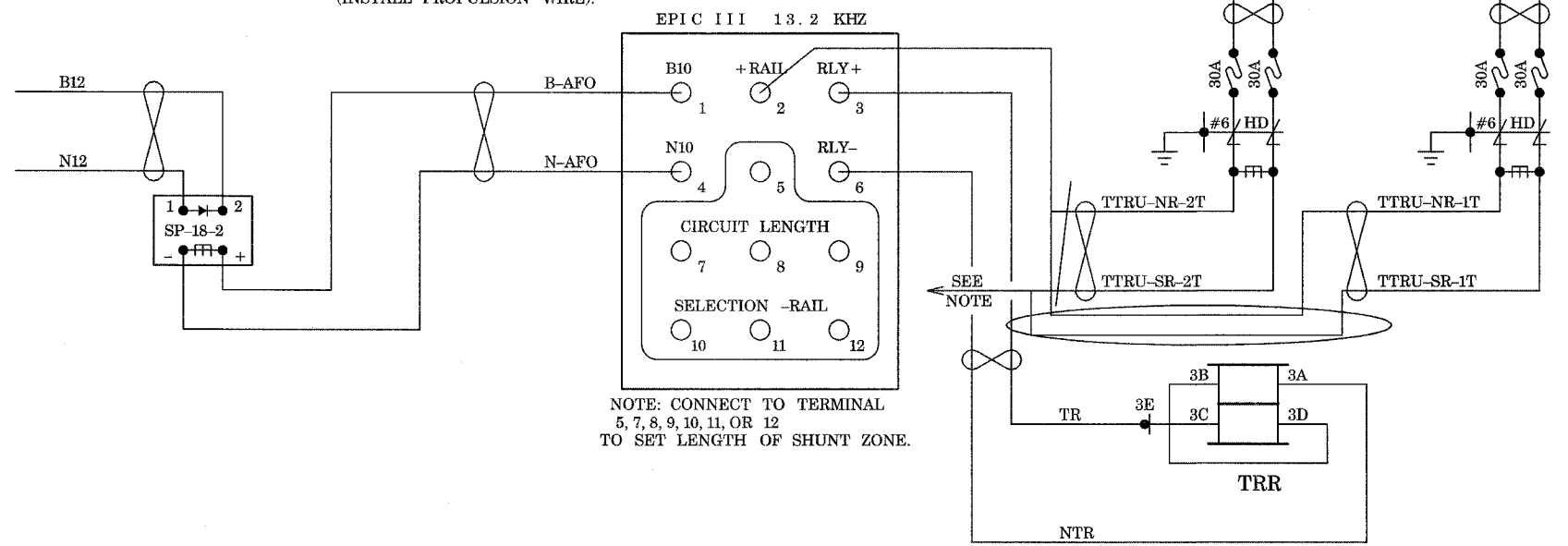
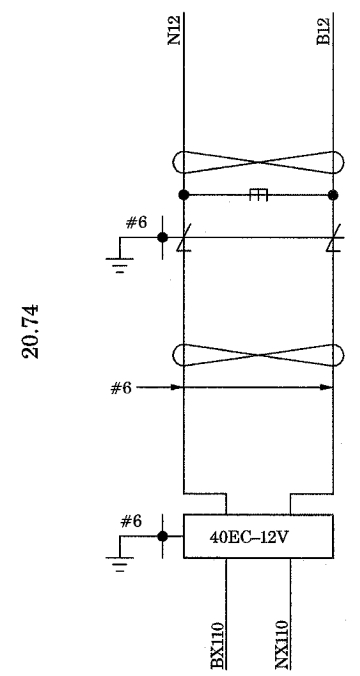
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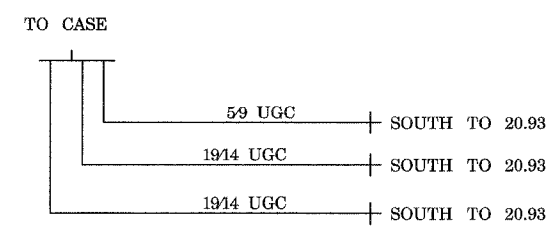
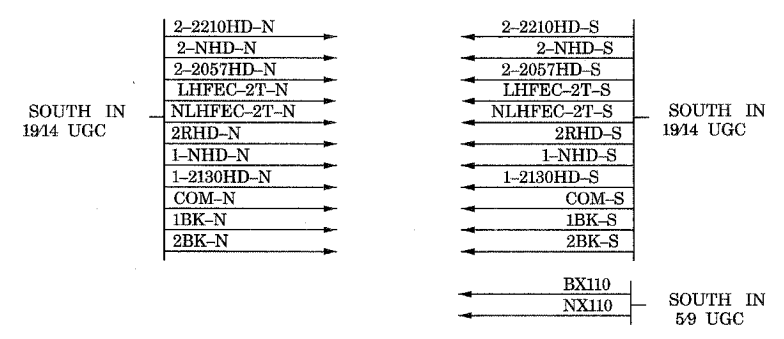
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	297
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO. 7	ILLINOIS		CONTRACT NO. 60E10	



MOVE ELECTRIC LOCK TO 1T WITH ML NORMAL  
(INSTALL PROPULSION WIRE).



NOTE: CONNECT TO TERMINAL 5, 7, 8, 9, 10, 11, OR 12 TO SET LENGTH OF SHUNT ZONE.



URS 04/11/08 OK

**YELLOW** - IN  
**RED** - OUT

CREW  
08/25/09

PHASE 5

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 5 (STAGE 3 & 4) CASE 20.91

SHT. SG-30 OF SG-36  
DATE 4/11/2008

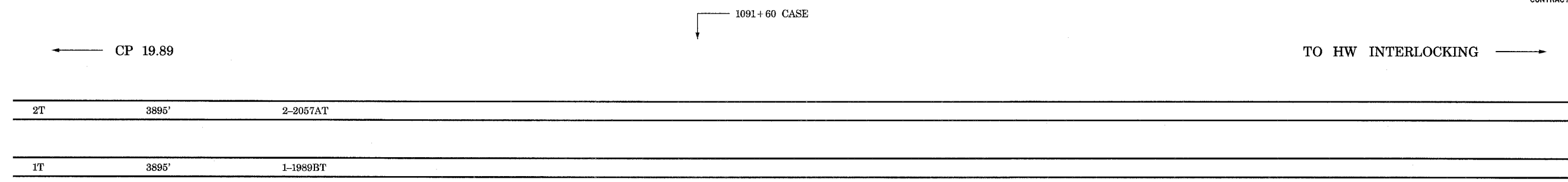
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CHECKED BY MAD

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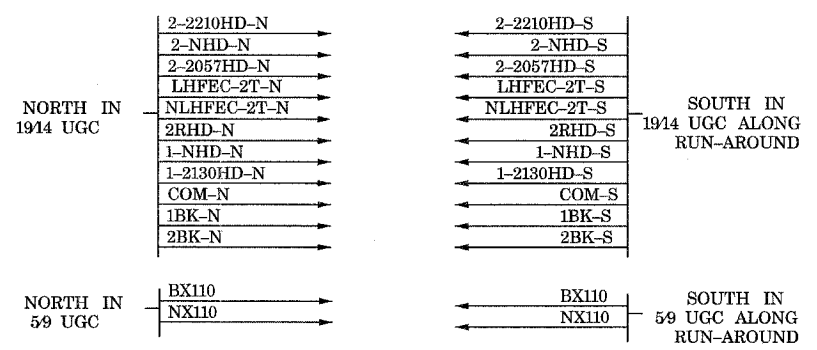
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001VB	COOK	579	298
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60E10				

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↑  
530B  
CASE LOCATED  
BETWEEN TRACKS

20.56



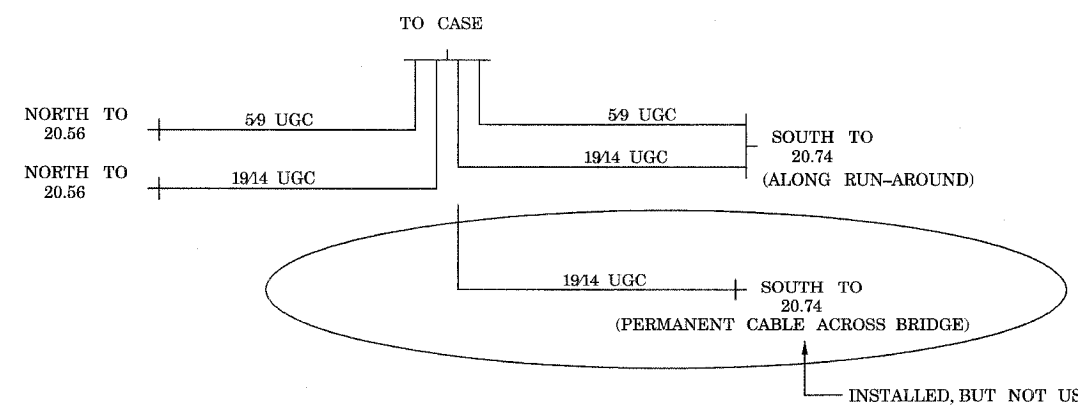
20.74

URS 04/11/08 OK

~~YELLOW~~ - IN  
RED - OUT

CREW  
03/01/10

PHASE 8



FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 8 (FINAL ROUTING) CASE 20.68

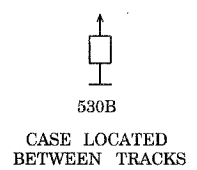
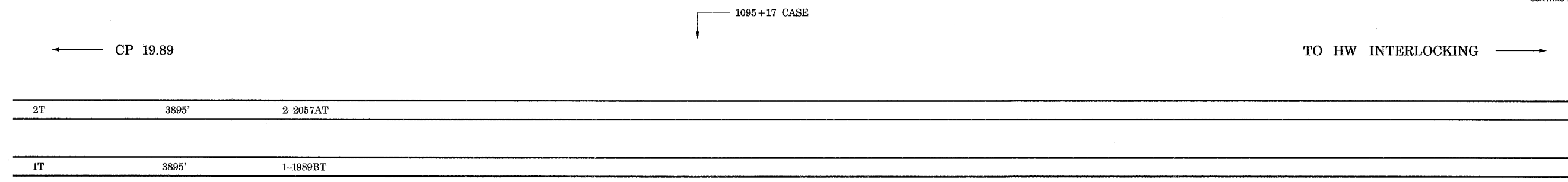
SHT. SG-31 OF SG-36  
DATE 4/11/2008

DRAWN BY AB  
CHECKED BY MAD

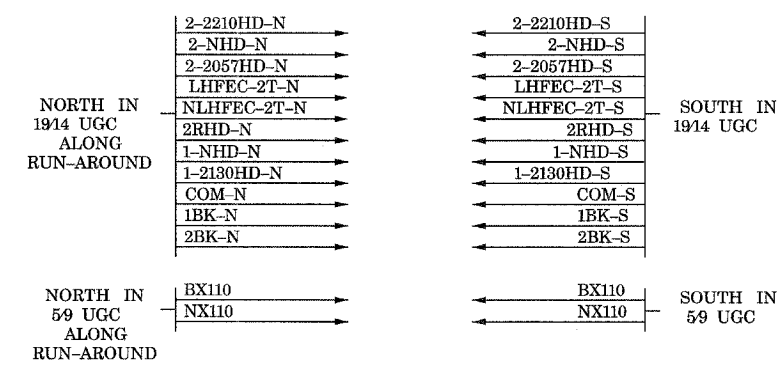
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	299
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 60E10		

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20.68

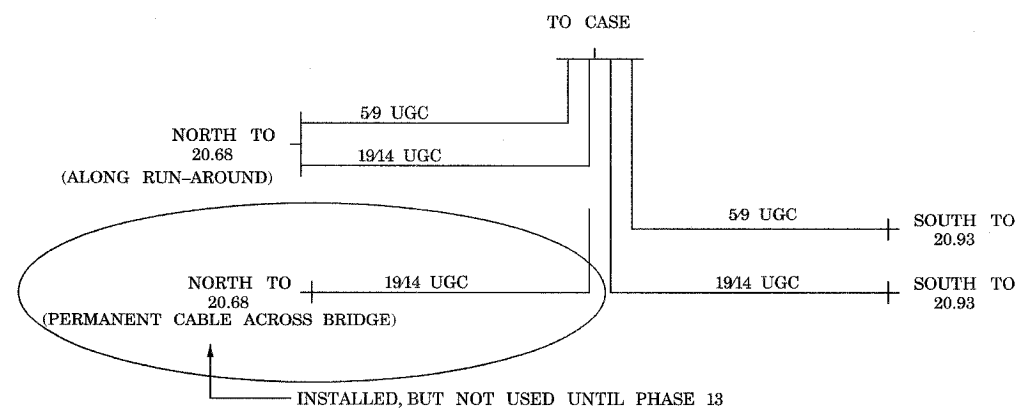


11/30/06 OK  
URS 04/11/08 OK

**YELLOW - IN**  
**RED - OUT**

CREW  
03/01/10

PHASE 8



FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

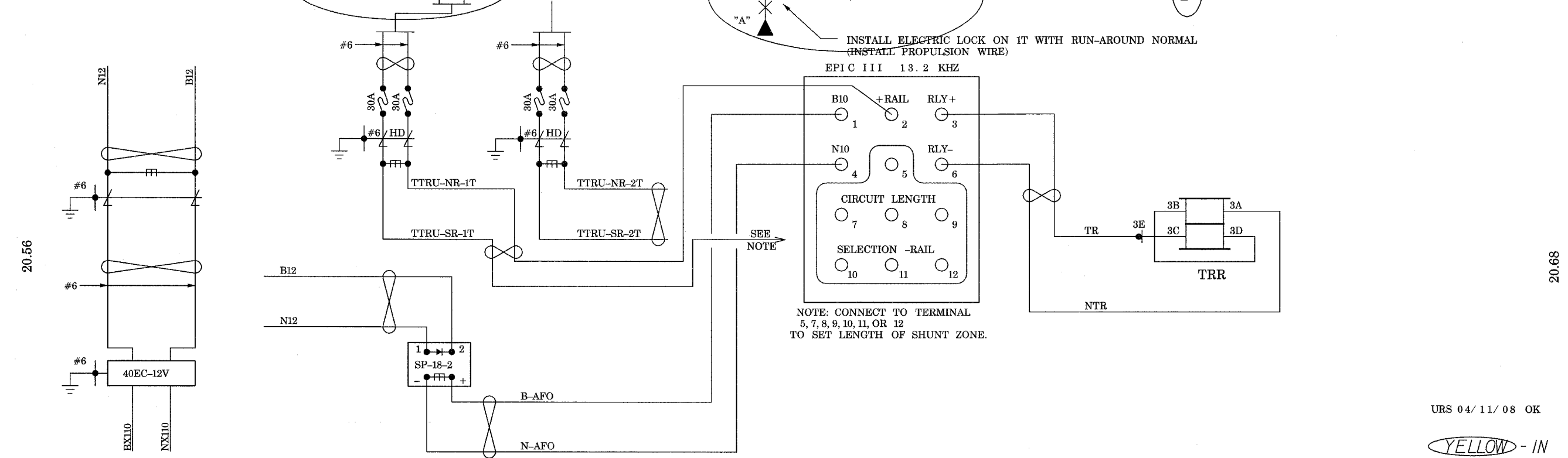
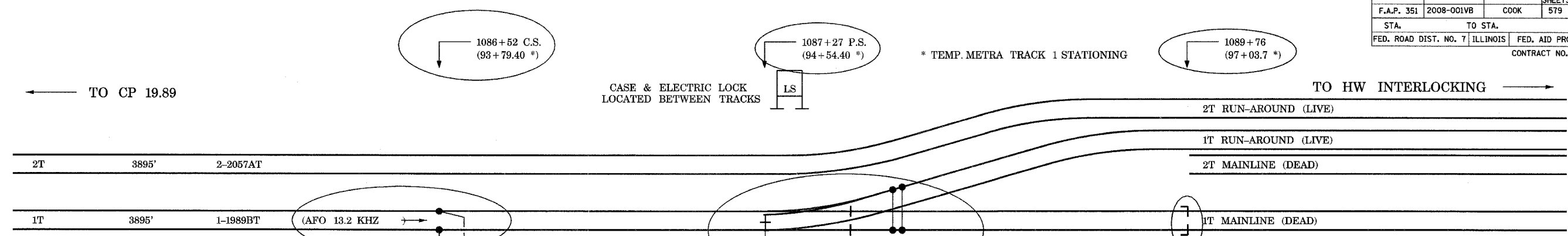
METRA SIGNALS  
STAGE 8 (FINAL ROUTING) CASE 20.74

SHT. 56-32 OF 56-36  
DATE 4/11/2008

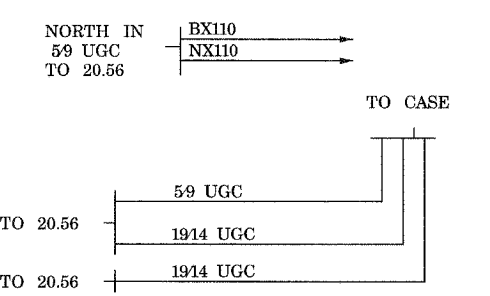
DRAWN BY AB  
CHECKED BY MAD

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 351	2008-001WB	COOK	579	300
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60E10				



- |                                  |  |                                  |  |
|----------------------------------|--|----------------------------------|--|
| NORTH IN<br>1914 UGC<br>TO 20.56 | <ul style="list-style-type: none"> <li>2-2210HD-N</li> <li>2-NHD-N</li> <li>2-2057HD-N</li> <li>LHFEC-2T-N</li> <li>NLHFEC-2T-N</li> <li>2RHD-N</li> <li>1-NHD-N</li> <li>1-2130HD-N</li> <li>COM-N</li> <li>1BK-N</li> <li>2BK-N</li> </ul> | NORTH IN<br>1914 UGC<br>TO 20.56 | <ul style="list-style-type: none"> <li>2-2210HD-S</li> <li>2-NHD-S</li> <li>2-2057HD-S</li> <li>LHFEC-2T-S</li> <li>NLHFEC-2T-S</li> <li>2RHD-S</li> <li>1-NHD-S</li> <li>1-2130HD-S</li> <li>COM-S</li> <li>1BK-S</li> <li>2BK-S</li> </ul> |
|----------------------------------|--|----------------------------------|--|



URS 04/11/08 OK

**YELLOW** - IN  
**RED** - OUT

CREW  
03/28/10

PHASE 9

FOR REFERENCE ONLY  
(METRA WORK USING  
CONTRACTOR-SUPPLIED MATERIALS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
METRA OVER 159TH STREET

METRA SIGNALS  
PHASE 9 (STAGE 6) CASE 20.59

SHT. SG-33 OF SG-36      DRAWN BY AB  
DATE 4/11/2008      CHECKED BY MAD

4/14/2008 11:44:04 AM

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