

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	1

+4  
93

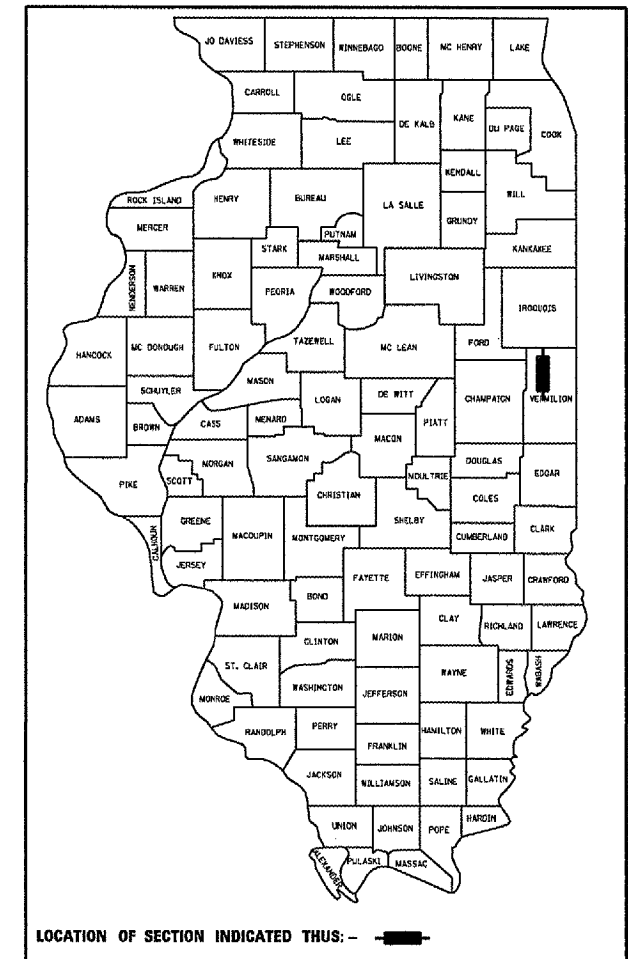
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 840 (IL 49)  
SECTION (121,122)RS-3  
VERMILION COUNTY  
PROJECT NO. ACF-0840(057)

C-95-120-00

RESURFACING (3P) FROM FAST CREEK 2.1 MI. (S) OF  
IROQUIOS CO. LINE TO US 136 (W) AND  
BRIDGE REPAIR S.N. 092-0101  
OVER UP RR 1.8 MI N OF US 136



FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

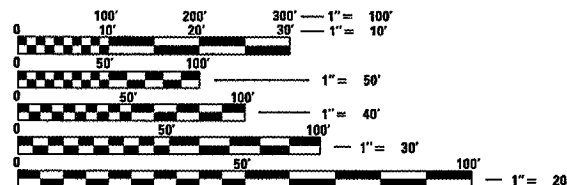
PROJECT ENGINEER: KEVIN TRAPP

SQUAD LEADER: JEFF SHERER

DESIGNER: JULIE WEGER

CURRENT ADT  
MINOR ARTERIAL  
FAP 840 (IL 49) = 1,400 (2006)

DESIGN DESIGNATION  
N/A



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

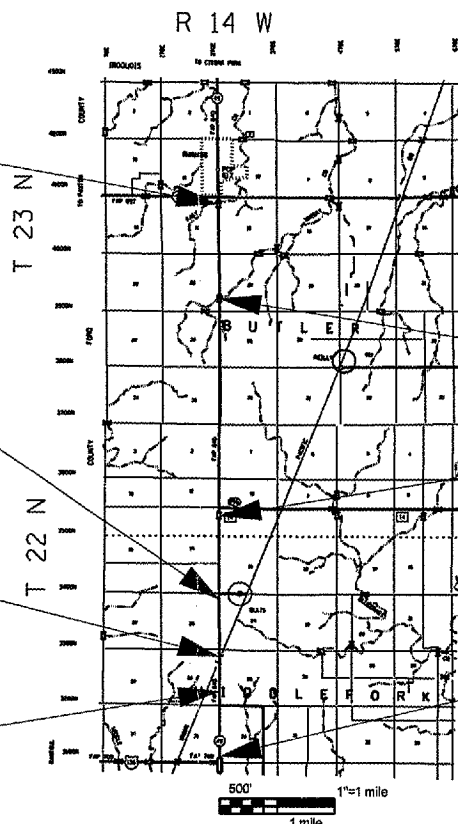
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

END IMPROVEMENT  
STA. 1280+10

STATION EQUATION  
STA. 870+00(BK)=STA. 870+71(AH)

S.N. 092-0101 (BRIDGE REPAIR)  
STA. 854+78 - 861+60

STATION EQUATION  
STA. 837+24(BK)=STA. 837+20(AH)



S.N. 092-2026  
(HMA RESURFACING)  
STA. 1194+24

S.N. 092-2035  
(HMA RESURFACING)  
STA. 991+00

BEGIN IMPROVEMENT  
STATION 765+00

TOTAL LENGTH = 51443.00 ft = 9.743 miles  
NET LENGTH = 50761.00 ft = 9.614 miles

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 11/16 20 07

*Joseph E. Cowell*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7, 20 07  
*Eric E. Haron*  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7, 20 07  
*Christine M. Reed*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



CONTRACT NO. 70128				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

**COMMITMENTS**

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

**GENERAL NOTES**

G.N.-100  
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.09A  
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.12  
THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE LOCAL RAILROAD CONTACT IS:

Mr. David W. McKernan  
Manager Industry & Public Projects  
Union Pacific Railroad Company  
100 North Broadway, Suite 1500  
St. Louis, MO 63102  
(314) 331-0682

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RAILROAD CONTACT PERSON FOR FLAGGERS IS:

Mr. Paul Gegg  
Union Pacific Railroad  
811 W. Chestnut  
Bloomington, IL 61701  
(309) 820-2312

G.N. 202  
GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-353  
THE SHADED AREAS OF P.C. CONCRETE BASE COURSE CONSTRUCTED ADJACENT TO COMBINATION CONCRETE CURB AND GUTTER AS SHOWN IN THE PLANS SHALL BE POURED MONOLITHIC WITH THE COMBINATION CONCRETE CURB AND GUTTER. THIS WORK WILL BE MEASURED AND INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE YARD FOR PORTLAND CEMENT CONCRETE BASE COURSE OF THE THICKNESS SPECIFIED IN THE PLANS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**GENERAL NOTES (CONT'D)**

G.N.-406  
THE QUANTITIES INCLUDED IN THE PLANS FOR BITUMINOUS CONCRETE RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE BITUMINOUS MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406H

**MIXTURE REQUIREMENTS**

The following mixture requirements are applicable for this project:

Location(s):	IL-49 Surface & Incidental (Top 1 1/2" Shldr & PD	IL-49 Level Binder	IL-49 Part. Depth & Class D Patch	IL-49 HMA Shoulders (Bottom 6 1/2")
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 58-22
RAP % (Max)**	15%	25%	25%	30%
Design Air Voids: Mix	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=50
Comp:(Gradation)	IL 9.5	IL 9.5	IL 19.0	B.A.M.
Friction Aggregate:	Mix C	Mix C	N.A.	N.A.

G.N.-406.05b  
ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER.

THE FOG COAT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER GALLON FOR BITUMINOUS MATERIAL (PRIME COAT) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-440B  
THE EXISTING TIE BARS BETWEEN THE EXISTING PAVEMENT AND EXISTING MEDIANS, GUTTERS AND/OR COMBINATION CURB AND GUTTERS THAT ARE FOUND SUITABLE FOR REUSE SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY EXISTING TIE BARS THAT ARE FOUND UNSUITABLE TO BE INCORPORATED INTO THE PROPOSED CONSTRUCTION DUE TO EXCESSIVE RUSTING OR DISTRESS SHALL BE REMOVED FLUSH WITH THE FACE OF THE EXISTING CONCRETE AND DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS REMOVAL PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-442B - PATCHING SCHEDULES  
THE PATCHING SCHEDULES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATION AND SIZES OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES MAY OCCUR.

G.N.-482  
ALL MATERIAL PLACED AS HOT-MIX ASPHALT SHOULDERS SHALL BE COMPACTED TO 94.0 - 98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO IL 9.5L GRADATION SHOULDER MIXES AND OTHER MIXES (BOTTOM LIFT OF SHOULDERS). THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER QC/QA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR THE IL 9.5L MIXES AND OTHER MIXES USING STANDARD CORRELATION PROCEDURES.

G.N.-667  
THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S, AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.

G.N.-703A  
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-781  
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N.-1004.01  
COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		COMMITMENTS & GENERAL NOTES
SCALE: VERT. HORIZ.	DATE	DRAWN BY CHECKED BY

PLOT DATE = 11/15/2007  
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 PLOT SCALE = 420/3841 / IN  
 USER NAME = contemp

# SUMMARY OF QUANTITIES

F.A.P. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	1121.122RS-3	VERMILION	89	4
STA.		TO STA.		
FED. ROAD DIST. NO.		FED. AID PROJECT		

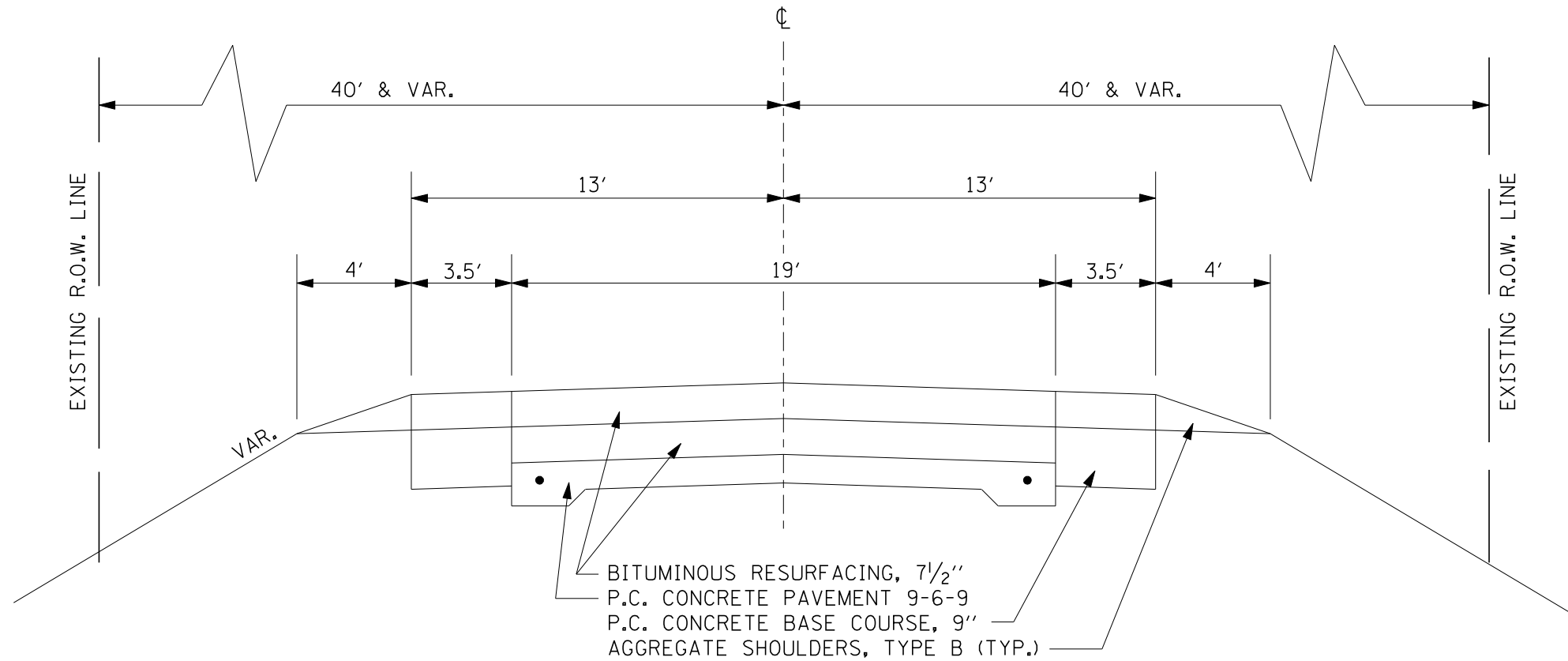
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		FAP 840 (IL 49) VERMILION CO.	FAP 840 (IL 49) VERMILION CO. S.N. 092-0101
				RURAL	RURAL
				80% FED 20% STATE I-000	80% FED 20% STATE SFTY-2A
20200100	EARTH EXCAVATION	CU YD	480.0	480.0	
20900110	POROUS GRANULAR BACKFILL	CU YD	85.0	85.0	
21400100	GRADING AND SHAPING DITCHES	FOOT	640.0	640.0	
28000300	TEMPORARY DITCH CHECKS	EACH	9.0	9.0	
28101500	RIPRAP, SPECIAL	SQ YD	510.0	510.0	
31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	SQ YD	1,024.0	1,024.0	
40800100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	14,721.0	14,721.0	
40600300	AGGREGATE (PRIME COAT)	TON	295.0	295.0	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	6,132.0	6,132.0	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	358.0	358.0	
40600990	TEMPORARY RAMP	SQ YD	63.0	63.0	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N 50	TON	12,293.0	12,293.0	
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	337.0	337.0	
40800030	AGGREGATE (PRIME COAT)	TON	7.0	7.0	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACE	TON	283.0	283.0	
44000100	PAVEMENT REMOVAL	SQ YD	510.0	510.0	
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	146,979.0	146,979.0	
44000196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	1,644.0	1,644.0	
44000400	GUTTER REMOVAL	FOOT	2,457.0	2,457.0	
44201759	CLASS "D" PATCHES, TYPE IV, 9 INCH	SQ YD	510.0	510.0	
44201815	CLASS "D" PATCHES, TYPE II, 14 INCH	SQ YD	54.0	54.0	
44201819	CLASS "D" PATCHES, TYPE III, 14 INCH	SQ YD	48.0	48.0	
44201821	CLASS "D" PATCHES, TYPE IV, 14 INCH	SQ YD	67.0	67.0	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	4,576.0	4,576.0	
48203029	<del>HOT-MIX ASPHALT</del> SHOULDERS, 8"	SQ YD	866.0	866.0	
52000340	NEOPRENE EXPANSION JOINT 4"	FOOT	66.0	66.0	
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	9.0	9.0	
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ YD	50.0	50.0	
60100955	PIPE DRAINS 16"	FOOT	84.0	84.0	
60107600	PIPE DRAINS 4"	FOOT	643.0	643.0	
60108100	PIPE DRAINS 4" (SPECIAL)	FOOT	108.0	108.0	
60403400	GRATES, TYPE A	EACH	4.0	4.0	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		FAP 840 (IL 49) VERMILION CO.	FAP 840 (IL 49) VERMILION CO. S.N. 092-0101
				RURAL	RURAL
				80% FED 20% STATE I-000	80% FED 20% STATE SFTY-2A
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	14.0	14.0	
60602700	CONCRETE GUTTER, TYPE A (SPECIAL)	FOOT	1,106.0	1,106.0	
60900515	CONCRETE THRUST BLOCKS	EACH	8.0	8.0	
* 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	1,363.0	1,363.0	
* 63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	100.0	100.0	
* 63000025	STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE	FOOT	50.0	50.0	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.0	1.0	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7.0	7.0	
63200310	GUARDRAIL REMOVAL	FOOT	1,163.0	1,163.0	
63301210	REMOVE <sup>AND</sup> RE-ERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	1,940.0	1,940.0	
66700110	PERMANENT SURVEY MARKERS TO BE ADJUSTED	EACH	14.0	14.0	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6.0	6.0	
67100100	MOBILIZATION	L SUM	1.0	1.0	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	1.0	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0	1.0	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1.0	1.0	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	8.0	8.0	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	15,433.0	15,433.0	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,714.0	1,714.0	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	129,664.0	129,664.0	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	644.0	644.0	
* 78200450	MONODIRECTIONAL GUARDRAIL REFLECTORS	EACH	34.0	34.0	
* 78201000	TERMINAL MARKERS - DIRECT APPLIED	EACH	7.0	7.0	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	644.0	644.0	
* X0301232	SURVEY MARKER VAULT	EACH	1.0	1.0	
* X0320887	POLYMER CONCRETE	CU FT	24.0	24.0	
* X0321744	SILICONE JOINT SEALER, 2"	FOOT	196.0	196.0	
* X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	18.0	18.0	
* X3540580	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13-1/4"	SQ YD	280.0	280.0	
* X4401705	PARTIAL DEPTH REMOVAL	SQ YD	3,403.0	3,403.0	
* X4421000	PARTIAL DEPTH PATCHING	TON	2,030.0	2,030.0	
* Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0	1.0	

\* SPECIALTY ITEMS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	5
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXISTING TYPICAL CROSS SECTION



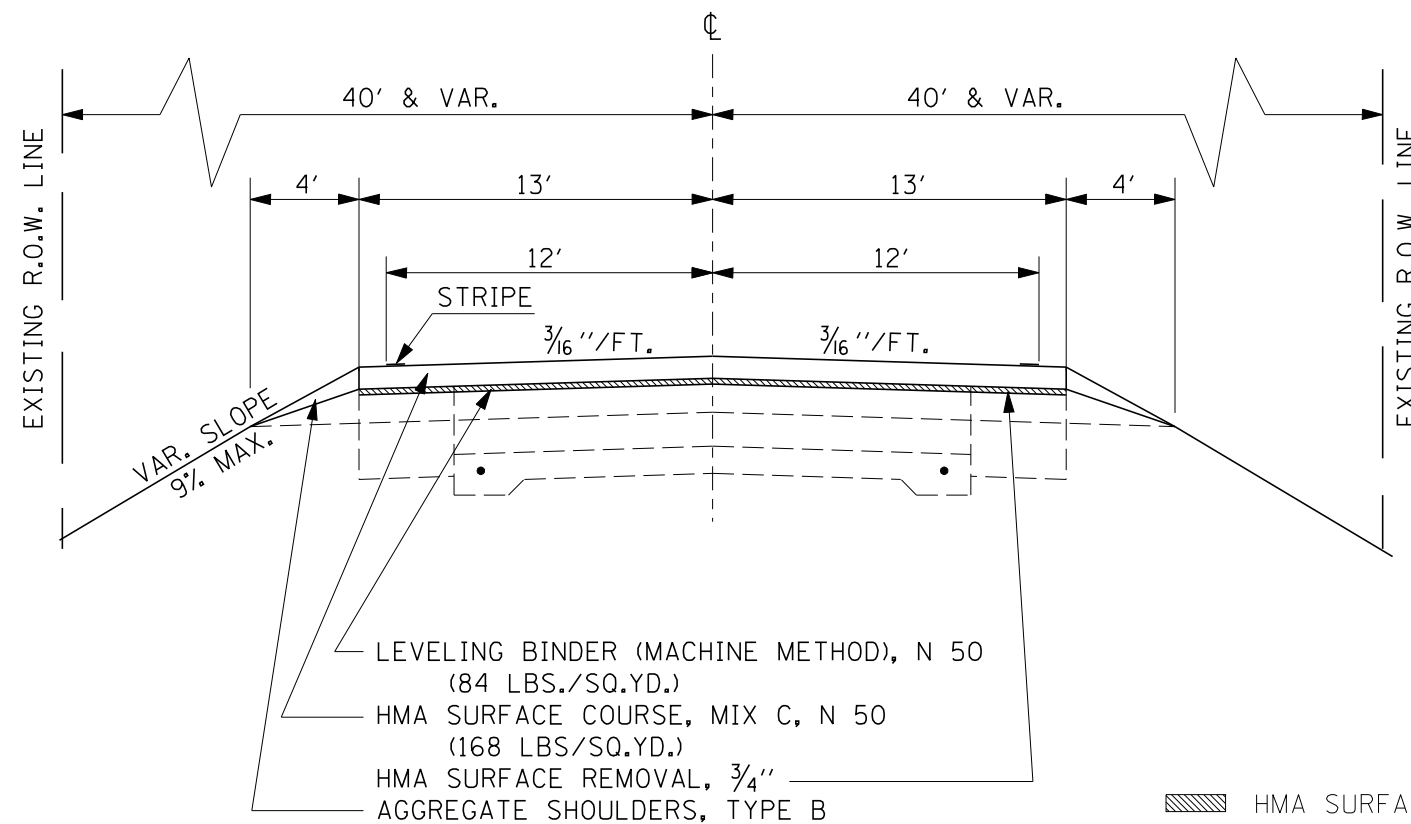
STATION TO STATION

765+00 - 847+14  
868+86 - 1280+10

STA. EQUATION

STA. 837+21 (BK) = STA. 837+20 (AH)  
STA. 870+00 (BK) = STA. 870+71 (AH)

① PROPOSED TYPICAL CROSS SECTION



STATION TO STATION

765+00 - 847+14 ②  
② 868+86 - 1280+10

STA. EQUATION

STA. 837+21 (BK) = STA. 837+20 (AH)  
STA. 870+00 (BK) = STA. 870+71 (AH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING & PROPOSED  
(IL 49)  
TYPICAL SECTIONS

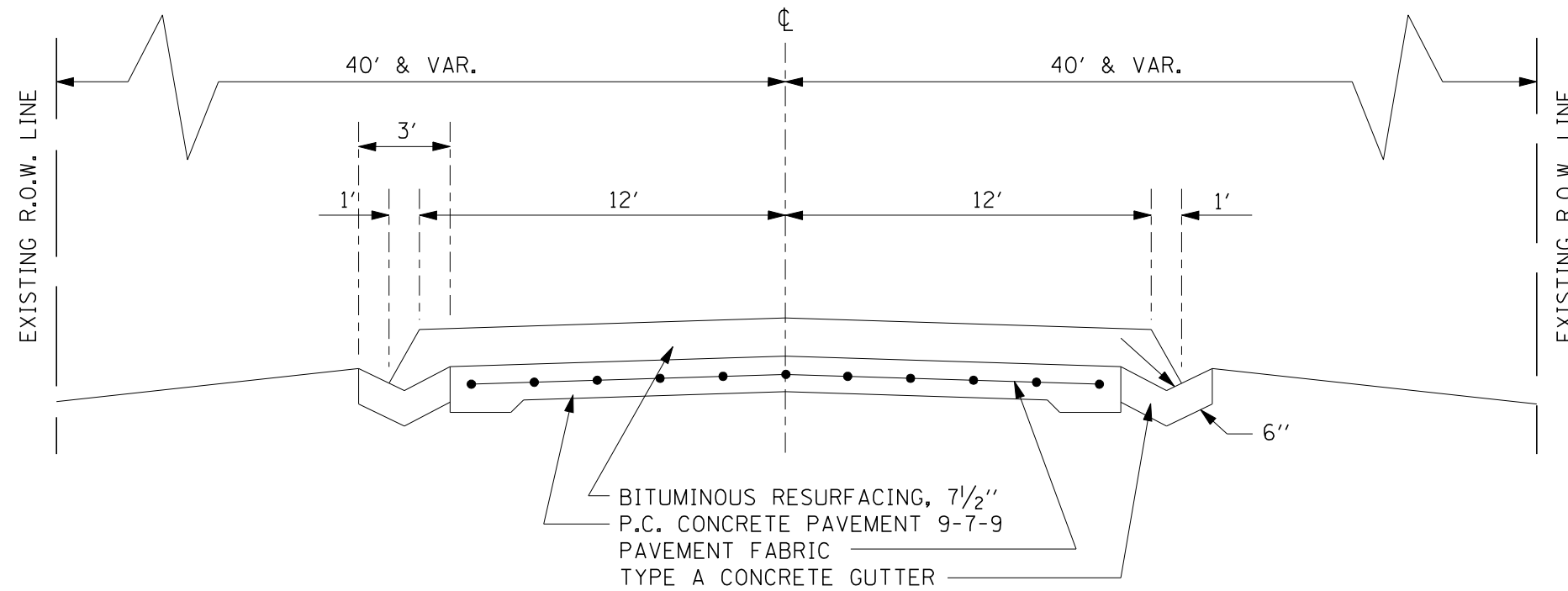
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HORIZ.  
DATE

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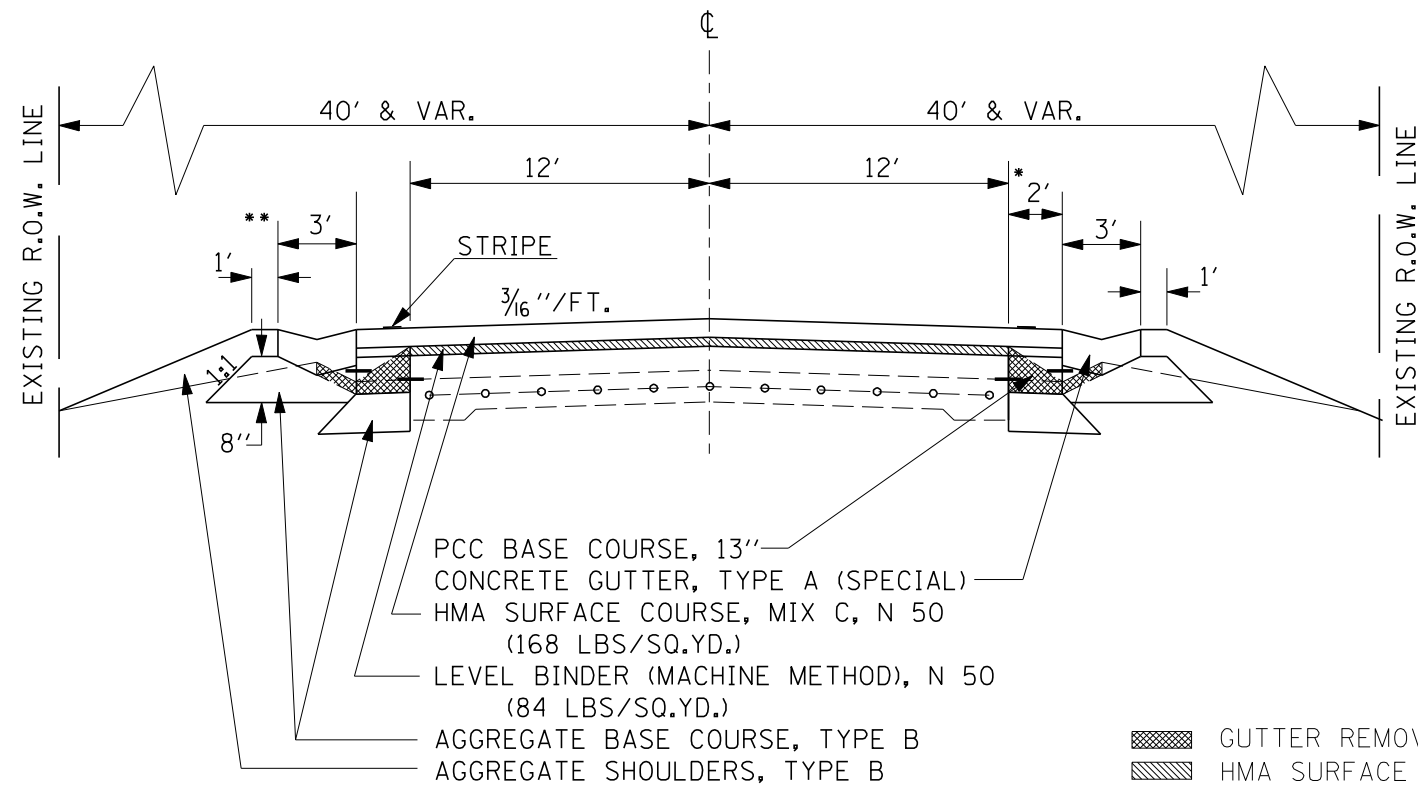
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EXISTING TYPICAL CROSS SECTION



STATION TO STATION  
847+14 - 868+86

② PROPOSED TYPICAL CROSS SECTION



STATION TO STATION  
① 847+14 - 868+86 ①

BRIDGE DECK REPAIR  
STA. 854+78 - 861+60  
S.N. 092-0101

- \* THE 2' SHOULDER WIDTH SHALL BE PAVED WITH THE MAINLINE.
- \*\* SEE CONCRETE GUTTER RECONSTRUCTION DETAIL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXISTING & PROPOSED  
(IL 49)  
TYPICAL SECTIONS

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE				
LOCATION	20200100 - EARTH EXCAVATION	30%	EMBANKMENT	WASTE (FOR INFO ONLY)
	CU YD			
STA 849+50 TO 851+75	153.7	107.59	43	64.6
STA 852+00 TO 854+25	85.9	60.13	25.8	34.3
STA 862+50 TO 868+75	237.4	166.18	74	92.2
GUARDRAIL TERMINALS			121	-121
<b>SUB-TOTAL</b>				<b>70.1</b>
<b>TOTAL</b>	<b>480.0</b>		<b>263.8</b>	<b>70.1</b>

31101000 - SUB-BASE GRANULAR MATERIAL, TYPE B	
LOCATION	TON
STA. 886+58 - 887+71	327.7
STA. 1261+02 - 1261+74	208.8
STA. 1261+02 - 1261+74	208.8
STA. 1275+67 - 1276+15	139.2
STA. 1275+67 - 1276+15	139.2
<b>TOTAL</b>	<b>1023.7</b>
<b>USE</b>	<b>1024.0</b>

44000400 - GUTTER REMOVAL	
LOCATION	FOOT
<b>IL 49 SOUTHBOUND</b>	
<b>N. OF BRIDGE</b>	
LT STA. 862+78 - 862+49	29.0
LT STA. 863+19 - 868+86	567.0
<b>S. OF BRIDGE</b>	
LT STA. 852+09 - 853+83	174.0
LT STA. 847+14 - 851+71	457.0
<b>IL 49 NORTHBOUND</b>	
<b>S. OF BRIDGE</b>	
RT STA. 847+14 - 851+71	457.0
RT STA. 852+07 - 853+83	176.0
<b>N. OF BRIDGE</b>	
RT STA. 862+50 - 862+81	31.0
RT STA. 863+20 - 868+86	566.0
<b>TOTAL</b>	<b>2457.0</b>

20900110 - POROUS GRANULAR BACKFILL	
LOCATION	CU YD
STA. 886+58 - 887+71	27.2
STA. 1261+02 - 1261+74	17.3
STA. 1261+02 - 1261+74	17.3
STA. 1275+67 - 1276+15	11.6
STA. 1275+67 - 1276+15	11.6
<b>TOTAL</b>	<b>85.0</b>
<b>USE</b>	<b>85.0</b>

* 40600990 - TEMPORARY RAMP		
LOCATION	DIMENSIONS (FEET)	SQ YD
STA. 765+00	27 X 5	15.0
STA. 854+78	30 X 5	16.7
STA. 861+60	30 X 5	16.7
STA. 1280+10	26 X 5	14.4
<b>TOTAL</b>		<b>62.8</b>
<b>USE</b>		<b>63.0</b>

\* It is the intention to use Temporary Ramps for major side roads and locations where HMA Surface Removal - Butt Joints are constructed. Temporary Ramps shall not be used at minor township roads, private entrances, and commercial entrances unless otherwise noted.

21400100 - GRADING & SHAPING DITCHES	
LOCATION	FOOT
RT STA. 883+00 - 887+80	480.0
LT & RT STA. 1260+92 - 1261+84	92.0
LT & RT STA. 1275+57 - 1276+25	68.0
<b>TOTAL</b>	<b>640.0</b>

44000100 - PAVEMENT REMOVAL	
LOCATION	SQ YD
RT STA. 886+58 - 887+71	163.2
LT STA. 1261+02 - 1261+74	104.0
RT STA. 1261+02 - 1261+74	104.0
LT STA. 1275+67 - 1276+15	69.3
RT STA. 1275+67 - 1276+15	69.3
<b>TOTAL</b>	<b>509.9</b>
<b>USE</b>	<b>510.0</b>

60600095 - CLASS SI CONCRETE (OUTLET)	
LOCATION	CU YD
<b>38" GUTTER OUTLET</b>	
<i>(Refer to Standard 606106-03)</i>	
RT STA. 849+72 - 850+10	3.30
LT STA. 850+15 - 850+53	3.30
LT STA. 864+82 - 865+20	3.30
RT STA. 864+82 - 865+20	3.30
<b>TOTAL</b>	<b>13.2</b>
<b>USE</b>	<b>14.0</b>

NOTE: The Tie Bars and Aggregate Base Course, Ty. B shall be considered incidental to the Class SI Conc.

28000300 - TEMPORARY DITCH CHECKS	
LOCATION	EACH
RT STA. 883+00 - 887+80	5.0
LT & RT STA. 1260+92 - 1261+84	2.0
LT & RT STA. 1275+57 - 1276+25	2.0
<b>TOTAL</b>	<b>9.0</b>

60602700 - CONCRETE GUTTER, TYPE A (SPECIAL)	
LOCATION	FOOT
LT STA. 850+53 - 851+82	129.0
RT STA. 850+10 - 851+83	173.0
LT STA. 852+00 - 853+88	188.0
RT STA. 852+01 - 853+88	187.0
LT STA. 862+49 - 862+90	41.0
RT STA. 862+50 - 862+92	42.0
LT STA. 863+09 - 864+82	173.0
RT STA. 863+09 - 864+82	173.0
<b>TOTAL</b>	<b>1106.0</b>

NOTE: The Tie Bars and Aggregate Base Course, Ty. B shall be considered incidental to the gutter.

28101500 - RIPRAP, SPECIAL	
LOCATION	SQ YD
RT STA. 886+58 - 887+71	163.2
LT STA. 1261+02 - 1261+74	104.0
RT STA. 1261+02 - 1261+74	104.0
LT STA. 1275+67 - 1276+15	69.3
RT STA. 1275+67 - 1276+15	69.3
<b>TOTAL</b>	<b>509.9</b>
<b>USE</b>	<b>510.0</b>

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES**

SCALE: VERT. / HORIZ. DATE

DRAWN BY / CHECKED BY

PLOT DATE : 11/15/2007  
 FILE NAME : c:\projects\5955800 (v8)\rev.plamhats.dgn  
 PLOT SCALE : 4.23525 / IN.  
 USER NAME : collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HOT-MIX SCHEDULE											
LOCATION	LENGTH	WIDTH	AREA	40600982	44000152	40600100	40600300	48203029	40600625	40603310	48101200
				HMA SURF. REM. - BUTT JOINT	HMA SURF. REMOVAL, (3/4")	BIT. MATLS. (PRIME COAT)	AGG. (PRIME COAT)	HMA SHOULDERS, 8"	LEVEL. BIND. (MM), N 50	HMA SURF. CSE., MIX C, N 50	AGG. SHOULDERS, TYPE B
						0.1gal/sq yd	4lb/sq yd				
	FOOT	FOOT	SQ FT	SQ YD	SQ YD	GAL	TON	SQ YD	TON	TON	TON
<b>IL 49 - MAINLINE</b>											
STA. 765+00 - 765+30	30.0	33.3	999.0	111.00		11.10	0.22			9.32	2.67
STA. 765+30 - 837+24 (BK)	7194.0	26.0	187044.0		20782.67	2078.27	41.57		872.87	1745.74	639.59
<b>STA. EQ. 837+24 (BK) = 837+20 (AH)</b>	4.0										
STA. 837+20 (AH) - 847+14	994.0	26.0	25844.0		2871.56	287.16	5.74		120.61	241.21	88.37
STA. 847+14 - 854+48	734.0	24.0	17616.0		1957.33	195.73	3.91		82.21	164.42	65.26
*RT STA. 847+42 - 849+72	230.0	3.0	690.0			7.67	0.15	76.67			
**LT STA. 847+89 - 849+42	153.0	5.0	765.0			8.50	0.17	85.00			
STA. 854+48 - 854+78	30.0	24.0	720.0	80.00		8.00	0.16		6.72		2.67
**LT STA. 853+88 - 854+78	90.0	5.0	450.0			5.00	0.10	50.00			
**RT STA. 853+88 - 854+78	90.0	5.0	450.0			5.00	0.10	50.00			
<b>OMISSION (S.N. 092-0101)</b>											
STA. 861+60 - 861+90	30.0	24.0	720.0	80.00		8.00	0.16		6.72		2.67
**LT STA. 861+60 - 862+49	89.0	5.0	445.0			4.94	0.10	49.44			
**RT STA. 861+60 - 862+50	90.0	5.0	450.0			5.00	0.10	50.00			
STA. 861+90 - 868+86	696.0	24.0	16704.0		1856.00	185.60	3.71		77.95	155.90	61.88
*LT STA. 865+20 - 865+98	78.0	3.0	234.0			2.60	0.05	26.00			
*RT STA. 865+20 - 865+92	72.0	3.0	216.0			2.40	0.05	24.00			
*LT STA. 866+48 - 868+86	238.0	3.0	714.0			7.93	0.16	79.33			
*RT STA. 866+53 - 867+51	98.0	3.0	294.0			3.27	0.07	32.67			
*RT STA. 867+94 - 868+86	92.0	3.0	276.0			3.07	0.06	30.67			
STA. 868+86 - 870+00 (BK)	114.0	26.0	2964.0		329.33	32.93	0.66		13.83	27.66	10.14
<b>STA. EQ. 870+00 (BK) = 870+71 (AH)</b>	71.0										
STA. 870+71 (AH) - 1279+80	40909.0	26.0	1063634.0		118181.56	11818.16	236.36		4963.63	9927.25	3637.08
***STA. 886+58 - 887+71	113.0										30.13
***STA. 1261+02 - 1261+74	72.0										19.20
***STA. 1275+67 - 1276+15	48.0										12.80
*LT STA. 1192+50 - 1197+17	467.0	3.0	1401.0			15.57	0.31	155.67			
*RT STA. 1192+50 - 1197+17	467.0	3.0	1401.0			15.57	0.31	155.67			
STA. 1279+80 - 1280+10	30.0	26.0	780.0	86.67		8.67	0.17			7.28	2.67
<b>TOTALS</b>				<b>357.7</b>	<b>145978.4</b>	<b>14720.1</b>	<b>294.4</b>	<b>865.1</b>	<b>6131.1</b>	<b>12292.2</b>	<b>4575.1</b>
<b>USE</b>				<b>358.0</b>	<b>145979.0</b>	<b>14721.0</b>	<b>295.0</b>	<b>866.0</b>	<b>6132.0</b>	<b>12293.0</b>	<b>4576.0</b>

\* HMA Shoulders are 3' each side. The HMA Shoulders shall be placed with Surface Mix C, N50 as the final 1 1/2" lift. \*\*\* Aggregate Shoulder @ Class D Patches, 9" only.

X3540560 - PCC BASE COURSE WIDENING, 13 1/4"	
LOCATION	SQ YD
LT STA. 850+15 - 851+82	37.1
RT STA. 849+72 - 851+83	46.9
LT STA. 852+00 - 853+88	41.8
RT STA. 852+01 - 853+88	41.6
LT STA. 862+49 - 862+90	9.1
RT STA. 862+50 - 862+92	9.3
LT STA. 863+09 - 865+20	46.9
RT STA. 863+09 - 865+20	46.9
<b>TOTAL</b>	<b>279.6</b>
<b>USE</b>	<b>280.0</b>

NOTE: The Tie Bars and Aggregate Base Course, Ty. B shall be considered incidental to the gutter.

PLOT DATE : 11/15/2007  
 FILE NAME : c:\projects\4595580 (v8)\rev.plamhats.dgn  
 PLOT SCALE : 42,352% / IN.  
 USER NAME : collierb

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>SCHEDULE OF QUANTITIES</b>
SCALE:	VERT. / HORIZ.	DRAWN BY
DATE		CHECKED BY



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B40	(121,122)RS-3	VERMILION	89	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

40800050 INCIDENTAL HMA SURFACING SCHEDULE

STATION	AREA	AVG. THICK.	MAILBOX TURN-OUTS	FIELD ENT.	PRIVATE ENT. W/ MBTO	PRIVATE ENT.	SIDE ROADS	44000196 - HMA SURF. REM., (SPECIAL)	40800010 - BIT. MATLS (PR CT) RATE=0.10gal	40800030 - AGG. PR. COAT. RATE = 4
	SQ YD	INCHES	TONS	TONS	TONS	TONS	TONS	SQ YD	GAL.	TONS
LT STA. 765+65	15.00	1.500		1.26					1.50	0.03
LT STA. 780+65	13.33	1.500		1.12					1.33	0.03
RT STA. 787+10	13.00	1.500		1.09					1.30	0.03
LT STA. 800+10	16.67	1.500		1.40					1.67	0.03
LT STA. 813+66.87	44.08	1.500					3.70	44.08	4.41	0.09
RT STA. 813+66.87	85.40	1.500					7.17	85.40	8.54	0.17
RT STA. 826+25	12.33	1.500		1.04					1.23	0.02
LT STA. 826+50	16.00	1.500		1.34					1.60	0.03
RT STA. 831+25	13.00	1.500		1.09					1.30	0.03
LT STA. 831+80	14.00	1.500		1.18					1.40	0.03
RT STA. 832+71	14.00	1.500		1.18					1.40	0.03
RT STA. 847+15	40.14	1.500		3.37					4.01	0.08
LT STA. 847+66	75.46	1.500			6.34				7.55	0.15
LT STA. 849+83	66.44	1.500	5.58						6.64	0.13
RT STA. 850+86	34.44	1.500				2.89			3.44	0.07
LT STA. 866+22	102.61	1.500					8.62	102.61	10.26	0.21
RT STA. 866+25	57.95	1.500					4.87	57.95	5.80	0.12
RT STA. 867+73	46.14	1.500				3.88			4.61	0.09
LT STA. 879+04	12.33	1.500		1.04					1.23	0.02
RT STA. 879+34	12.67	1.500		1.06					1.27	0.03
RT STA. 892+00	26.33	1.500		2.21					2.63	0.05
LT STA. 892+20	17.00	1.500		1.43					1.70	0.03
RT STA. 902+70	11.67	1.500		0.98					1.17	0.02
RT STA. 918+75	5.67	1.500		0.48					0.57	0.01
LT STA. 919+52	92.41	1.500					7.76	92.41	9.24	0.18
RT STA. 919+52	97.87	1.500					8.22	97.87	9.79	0.20
LT STA. 920+05	12.33	1.500		1.04					1.23	0.02
RT STA. 922+87	9.67	1.500		0.81					0.97	0.02
LT STA. 931+44	75.91	1.500			6.38				7.59	0.15
LT STA. 932+99	30.56	1.500				2.57			3.06	0.06
LT STA. 934+00	11.67	1.500		0.98					1.17	0.02
RT STA. 935+20	9.67	1.500		0.81					0.97	0.02
LT STA. 945+86	77.36	1.500					6.50	77.36	7.74	0.15
RT STA. 947+70	27.22	1.500				2.29			2.72	0.05
RT STA. 949+30	66.61	1.500			5.60				6.66	0.13
RT STA. 957+98	8.67	1.500		0.73					0.87	0.02
LT STA. 961+00	75.25	1.500			6.32				7.53	0.15
RT STA. 971+38	9.00	1.500		0.76					0.90	0.02
LT STA. 984+30	11.00	1.500		0.92					1.10	0.02
LT STA. 998+30	100.99	1.500					8.48	100.99	10.10	0.20
RT STA. 998+30	215.86	1.500					18.13	215.86	21.59	0.43
LT STA. 999+50	13.67	1.500		1.15					1.37	0.03
RT STA. 1000+00	32.78	1.500				2.75			3.28	0.07
LT STA. 1008+00	13.67	1.500		1.15					1.37	0.03
RT STA. 1011+34	9.33	1.500		0.78					0.93	0.02
LT STA. 1023+40	49.83	1.500			4.19				4.98	0.10
RT STA. 1023+50	7.33	1.500		0.62					0.73	0.01
RT STA. 1044+90	11.00	1.500		0.92					1.10	0.02
LT STA. 1052+70	11.67	1.500		0.98					1.17	0.02
RT STA. 1069+40	14.00	1.500		1.18					1.40	0.03
LT STA. 1070+30	14.67	1.500		1.23					1.47	0.03
LT STA. 1076+04	120.07	1.500					10.09	120.07	12.01	0.24
RT STA. 1076+04	107.53	1.500					9.03	107.53	10.75	0.22
RT STA. 1089+10	12.35	1.500		1.04					1.24	0.02
LT STA. 1094+60	71.78	1.500			6.03				7.18	0.14
RT STA. 1102+00	21.33	1.500		1.79					2.13	0.04
LT STA. 1128+71	123.62	1.500					10.38	123.62	12.36	0.25
<b>SUB-TOTALS</b>			<b>5.58</b>	<b>38.15</b>	<b>34.85</b>	<b>14.38</b>	<b>102.96</b>	<b>1225.73</b>	<b>233.23</b>	<b>4.66</b>

40800050 INCIDENTAL HMA SURFACING SCHEDULE

STATION	AREA	AVG. THICK.	MAILBOX TURN-OUTS	FIELD ENT.	PRIVATE ENT. W/ MBTO	PRIVATE ENT.	SIDE ROADS	44000196 - HMA SURF. REM., (SPECIAL)	40800010 - BIT. MATLS (PR CT) RATE=0.10	40800030 - AGG. PR. CT. RATE = 4
	SQ YD	INCHES	TONS	TONS	TONS	TONS	TONS	SQ YD	GAL.	TONS
RT STA. 1128+71	112.37	1.500								9.44
RT STA. 1137+45	29.44	1.500							2.47	
RT STA. 1161+90	11.67	1.500		0.98						1.17
LT STA. 1167+88	8.00	1.500		0.67						0.80
RT STA. 1177+04	13.33	1.500		1.12						1.33
LT STA. 1178+30	37.22	1.500							3.13	
LT STA. 1181+35	84.26	1.500								7.08
RT STA. 1181+35	84.46	1.500								7.09
RT STA. 1199+13	10.33	1.500		0.87						
LT STA. 1203+05	33.33	1.500							2.80	
LT STA. 1211+00	11.00	1.500		0.92						
RT STA. 1213+51	75.39	1.500							6.33	
LT STA. 1225+67	38.33	1.500								3.22
RT STA. 1226+70	67.53	1.500							5.67	
LT STA. 1234+06	48.41	1.500								4.07
RT STA. 1234+06	88.04	1.500								7.40
LT STA. 1246+85	13.00	1.500								1.09
RT STA. 1250+90	45.56	1.500							3.83	
LT STA. 1251+90	63.56	1.500	5.34							
RT STA. 1253+10	30.00	1.500							2.52	
LT STA. 1255+25	13.33	1.500								1.12
RT STA. 1260+35	14.00	1.500								1.18
RT STA. 1265+37	13.33	1.500								1.12
LT STA. 1267+75	10.67	1.500								0.90
LT STA. 1275+42	9.00	1.500								0.76
LT STA. 1276+90	51.67	1.500								4.34
RT STA. 1276+95	16.00	1.500								1.34
<b>SUB-TOTALS</b>			<b>5.34</b>	<b>12.07</b>	<b>12.01</b>	<b>22.31</b>	<b>35.07</b>	<b>417.54</b>	<b>103.32</b>	<b>2.07</b>
<b>TOTALS</b>					<b>282.7</b>			<b>1643.3</b>	<b>336.6</b>	<b>6.7</b>
<b>USE</b>					<b>283.0</b>			<b>1644.0</b>	<b>337.0</b>	<b>7.0</b>

PLOT DATE = 11/15/2007  
 FILE NAME = c:\projects\40800050\40800050.dgn  
 PLOT SCALE = 42.3525 / IN.  
 USER NAME = collierb

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION  <b>SCHEDULE OF QUANTITIES</b>
NAME	DATE	
SCALE: VERT. / HORIZ.	DATE	DRAWN BY / CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**PARTIAL DEPTH PATCHING SCHEDULE**  
(EX. 6" CONCRETE PAVEMENT)

STATION	DIRECTION	LENGTH	WIDTH	EXISTING OVERLAY THICKNESS (4 3/4" or less)	X4401705	X4421000
					PARTIAL DEPTH REMOVAL	PARTIAL DEPTH PATCHING
		(ft)	(ft)	(inch)	(sq. yd)	(tons)
769+48	SB	6	12	7.5	8.0	4.7
771+88	NB	6	12	7.5	8.0	4.7
772+61	NB	6	6	7.5	4.0	2.4
775+81	NB	6	12	7.5	8.0	4.7
777+74	NB	6	6	7.5	4.0	2.4
783+00	NB	6	12	7.5	8.0	4.7
783+75	SB	6	12	7.5	8.0	4.7
788+47	NB	20	6	7.5	13.3	7.8
788+70	NB	6	12	7.5	8.0	4.7
789+09	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
790+36	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
791+62	SB	8	12	7.5	10.7	6.3
	NB	8	12	7.5	10.7	6.3
792+02	NB	6	12	7.5	8.0	4.7
792+48	NB	6	12	7.5	8.0	4.7
792+59	SB	6	6	7.5	4.0	2.4
792+76	NB	6	12	7.5	8.0	4.7
793+17	NB	8	12	7.5	10.7	6.3
	SB	8	12	7.5	10.7	6.3
793+33	NB	6	12	7.5	8.0	4.7
793+49	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
794+15	NB	8	12	7.5	10.7	6.3
794+29	NB	6	6	7.5	4.0	2.4
794+38	NB	6	12	7.5	8.0	4.7
798+36	NB	8	12	7.5	10.7	6.3
	SB	8	12	7.5	10.7	6.3
799+71	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
801+73	NB	40	6	7.5	26.7	15.7
803+81	NB	6	12	7.5	8.0	4.7
803+98	NB	6	12	7.5	8.0	4.7
804+26	NB	8	12	7.5	10.7	6.3
	SB	8	12	7.5	10.7	6.3
805+50	NB	6	12	7.5	8.0	4.7
812+57	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
812+80	SB	6	12	7.5	8.0	4.7
<b>SHEET TOTALS</b>					<b>352.0</b>	<b>207.0</b>
					<b>(sq. yd)</b>	<b>(Tons)</b>

STATION	DIRECTION	LENGTH	WIDTH	EXISTING OVERLAY THICKNESS (4 3/4" or less)	X4401705	X4421000
					PARTIAL DEPTH REMOVAL	PARTIAL DEPTH PATCHING
		(ft)	(ft)	(inch)	(sq. yd)	(tons)
812+80	NB	6	12	7.5	8.0	4.7
812+90	NB	6	12	7.5	8.0	4.7
814+05	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
815+66	NB	6	12	7.5	8.0	4.7
817+26	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
818+45	SB	8	12	7.5	10.7	6.3
818+60	SB	20	6	7.5	13.3	7.8
818+98	SB	6	12	7.5	8.0	4.7
820+28	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
822+96	NB	6	12	7.5	8.0	4.7
823+25	NB	6	12	7.5	8.0	4.7
825+00	SB	8	12	7.5	10.7	6.3
825+27	SB	6	12	7.5	8.0	4.7
828+00	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
828+38	SB	6	12	7.5	8.0	4.7
828+92	NB	6	12	7.5	8.0	4.7
829+69	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
830+91	SB	6	12	7.5	8.0	4.7
833+03	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
836+17	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
837+81	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
839+79	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
842+80	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
844+29	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
844+80	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
846+20	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
871+94	NB	6	12	7.5	8.0	4.7
<b>SHEET TOTALS</b>					<b>330.7</b>	<b>194.4</b>
					<b>(sq. yd)</b>	<b>(tons)</b>

NOTE:  
DUE TO THE EXISTING OVERLAY THICKNESS OF 7 1/2", PARTIAL DEPTH PATCHING DEPTHS WILL EXCEED 4 3/4 INCHES. THE PATCH SHALL BE PLACED IN 2 LIFTS. THIS WORK WILL BE MEASURED IN TONS AND PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR PARTIAL DEPTH PATCHING.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES**

SCALE: VERT. / HORIZ. DATE

DRAWN BY / CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**PARTIAL DEPTH PATCHING SCHEDULE**  
(EX. 6" CONCRETE PAVEMENT)

STATION	DIRECTION	LENGTH	WIDTH	EXISTING OVERLAY THICKNESS (4 3/4" or less)	X4401705 PARTIAL DEPTH REMOVAL	X4421000 PARTIAL DEPTH PATCHING
		(ft)	(ft)	(inch)	(sq. yd)	(tons)
878+92	NB	10	12	7.5	13.3	7.8
880+62	NB	6	12	7.5	8.0	4.7
882+27	NB	6	12	7.5	8.0	4.7
885+52	NB	6	12	7.5	8.0	4.7
887+36	NB	6	12	7.5	8.0	4.7
888+73	NB	6	12	7.5	8.0	4.7
892+14	NB	6	12	7.5	8.0	4.7
897+70	SB	6	12	7.5	8.0	4.7
897+90	SB	6	6	7.5	4.0	2.4
898+70	NB	6	12	7.5	8.0	4.7
903+62	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
907+85	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
909+17	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
911+14	SB	6	12	7.5	8.0	4.7
911+34	NB	6	12	7.5	8.0	4.7
913+61	NB	6	12	7.5	8.0	4.7
915+18	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
916+46	SB	10	12	7.5	13.3	7.8
	NB	10	12	7.5	13.3	7.8
921+25	NB	6	12	7.5	8.0	4.7
932+71	NB	50	12	7.5	66.7	39.2
	SB	50	12	7.5	66.7	39.2
936+51	SB	8	12	7.5	10.7	6.3
	NB	8	12	7.5	10.7	6.3
938+69	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
940+52	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
945+46	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
950+72	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
952+17	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
952+28	SB	6	12	7.5	8.0	4.7
963+13	NB	6	12	7.5	8.0	4.7
<b>SHEET TOTALS</b>					<b>454.7</b> (sq. yd)	<b>267.3</b> (tons)

STATION	DIRECTION	LENGTH	WIDTH	EXISTING OVERLAY THICKNESS (4 3/4" or less)	X4401705 PARTIAL DEPTH REMOVAL	X4421000 PARTIAL DEPTH PATCHING
		(ft)	(ft)	(inch)	(sq. yd)	(tons)
964+18	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
967+39	NB	6	12	7.5	8.0	4.7
968+70	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
972+33	SB	6	6	7.5	4.0	2.4
974+87	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
979+88	NB	6	12	7.5	8.0	4.7
986+11	SB	6	6	7.5	4.0	2.4
986+22	SB	8	12	7.5	10.7	6.3
	NB	100	6	7.5	66.7	39.2
986+38	SB	6	12	7.5	8.0	4.7
988+80	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
989+97	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
993+46	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1010+80	NB	6	12	7.5	8.0	4.7
1014+46	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
1028+75	SB	6	12	7.5	8.0	4.7
1029+32	NB	6	12	7.5	8.0	4.7
1033+49	NB	10	12	7.5	13.3	7.8
	SB	10	12	7.5	13.3	7.8
1035+83	SB	6	12	7.5	8.0	4.7
	NB	8	12	7.5	10.7	6.3
1043+73	NB	8	12	7.5	10.7	6.3
	SB	6	12	7.5	8.0	4.7
1041+60	SB	8	12	7.5	10.7	6.3
1047+73	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1047+92	SB	20	6	7.5	13.3	7.8
1056+51	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1058+09	NB	8	12	7.5	10.7	6.3
	SB	8	12	7.5	10.7	6.3
1064+70	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
<b>SHEET TOTALS</b>					<b>402.7</b> (sq. yd)	<b>236.8</b> (tons)

NOTE:  
DUE TO THE EXISTING OVERLAY THICKNESS OF 7 1/2", PARTIAL DEPTH PATCHING DEPTHS WILL EXCEED 4 3/4 INCHES. THE PATCH SHALL BE PLACED IN 2 LIFTS. THIS WORK WILL BE MEASURED IN TONS AND PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR PARTIAL DEPTH PATCHING.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES**

SCALE: VERT. / HORIZ. DATE

DRAWN BY / CHECKED BY

PLOT DATE = 11/15/2007  
 FILE NAME = c:\projects\050500 (v8)\rev.plamhats.dgn  
 PLOT SCALE = 4.2352" / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**PARTIAL DEPTH PATCHING SCHEDULE**  
(EX. 6" CONCRETE PAVEMENT)

STATION	DIRECTION	LENGTH	WIDTH	EXISTING OVERLAY THICKNESS (4 3/4" or less)	X4401705 PARTIAL DEPTH REMOVAL	X4421000 PARTIAL DEPTH PATCHING
		(ft)	(ft)	(inch)	(sq. yd)	(tons)
1065+38	NB	8	12	7.5	10.7	6.3
1069+10	NB	6	12	7.5	8.0	4.7
1072+68	NB	6	12	7.5	8.0	4.7
	SB	30	12	7.5	40.0	23.5
1083+86	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1087+39	SB	6	12	7.5	8.0	4.7
1089+05	SB	6	12	7.5	8.0	4.7
1107+62	SB	6	12	7.5	8.0	4.7
1107+77	SB	6	12	7.5	8.0	4.7
1108+05	SB	50	6	7.5	33.3	19.6
1108+52	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1108+69	SB	6	12	7.5	8.0	4.7
1115+20	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1115+78	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
1117+58	SB	8	12	7.5	10.7	6.3
	NB	8	12	7.5	10.7	6.3
1117+72	SB	30	6	7.5	20.0	11.8
1118+20	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1118+61	SB	50	12	7.5	66.7	39.2
1119+04	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1119+53	SB	100	6	7.5	66.7	39.2
1121+30	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1126+49	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
1127+71	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1144+20	SB	30	12	7.5	40.0	23.5
1145+50	SB	50	6	7.5	33.3	19.6
1146+07	NB	6	12	7.5	8.0	4.7
1146+75	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
1147+38	NB	6	12	7.5	8.0	4.7
1150+07	NB	100	6	7.5	66.7	39.2
<b>SHEET TOTALS</b>					<b>630.7 (sq. yd)</b>	<b>370.8 (tons)</b>

STATION	DIRECTION	LENGTH	WIDTH	EXISTING OVERLAY THICKNESS (4 3/4" or less)	X4401705 PARTIAL DEPTH REMOVAL	X4421000 PARTIAL DEPTH PATCHING
		(ft)	(ft)	(inch)	(sq. yd)	(tons)
1150+38	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
1151+05	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
1151+50	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1162+07	SB	20	6	7.5	13.3	7.8
1162+38	NB	20	6	7.5	13.3	7.8
1162+85	SB	20	6	7.5	13.3	7.8
1163+22	SB	30	6	7.5	20.0	11.8
	NB	80	6	7.5	53.3	31.4
1164+40	SB	20	6	7.5	13.3	7.8
1164+97	SB	30	6	7.5	20.0	11.8
1166+33	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1167+84	NB	50	6	7.5	33.3	19.6
	SB	6	12	7.5	8.0	4.7
1168+57	SB	6	6	7.5	4.0	2.4
1168+93	NB	6	6	7.5	4.0	2.4
1169+81	NB	8	12	7.5	10.7	6.3
1170+26	SB	6	12	7.5	8.0	4.7
1171+03	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1175+85	SB	6	12	7.5	8.0	4.7
1176+40	SB	6	12	7.5	8.0	4.7
1176+78	NB	10	6	7.5	6.7	3.9
1183+51	SB	20	6	7.5	13.3	7.8
1183+91	SB	20	6	7.5	13.3	7.8
1184+25	NB	6	6	7.5	4.0	2.4
1184+47	SB	6	12	7.5	8.0	4.7
1186+50	NB	20	6	7.5	13.3	7.8
1187+00	NB	6	6	7.5	4.0	2.4
1189+57	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
1195+93	SB	6	12	7.5	8.0	4.7
	NB	6	12	7.5	8.0	4.7
1196+94	NB	20	6	7.5	13.3	7.8
1199+94	NB	6	12	7.5	8.0	4.7
	SB	6	12	7.5	8.0	4.7
1205+28	NB	6	12	7.5	8.0	4.7
<b>SHEET TOTALS</b>					<b>442.7 (sq. yd)</b>	<b>260.3 (tons)</b>

NOTE:  
DUE TO THE EXISTING OVERLAY THICKNESS OF 7 1/2", PARTIAL DEPTH PATCHING DEPTHS WILL EXCEED 4 3/4 INCHES. THE PATCH SHALL BE PLACED IN 2 LIFTS. THIS WORK WILL BE MEASURED IN TONS AND PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR PARTIAL DEPTH PATCHING.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES**

SCALE: VERT. HORIZ.  
DATE

DRAWN BY  
CHECKED BY



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**FULL DEPTH PATCHING SCHEDULE**

STATION	DIRECTION	LENGTH	WIDTH	DEPTH	44201815	44201819	44201821
					TYPE II 14"	TYPE III 14"	TYPE IV 14"
		(ft)	(ft)	(inch)	(sq. yd)	(sq. yd)	(sq. yd)
778+23	SB	8	12	14"	10.7	0.0	0.0
	NB	8	12	14"	10.7	0.0	0.0
788+28	SB	6	12	14"	8.0	0.0	0.0
	NB	12	12	14"	0.0	16.0	0.0
795+99	SB	12	12	14"	0.0	16.0	0.0
	NB	12	12	14"	0.0	16.0	0.0
897+10	NB	6	12	14"	8.0	0.0	0.0
901+05	SB	6	12	14"	8.0	0.0	0.0
	NB	6	12	14"	8.0	0.0	0.0
1065+15	SB	30	12	14"	0.0	0.0	40.0
1106+93	SB	20	12	14"	0.0	0.0	26.7
					0.0	0.0	0.0
					0.0	0.0	0.0
					0.0	0.0	0.0
<b>SHEET TOTALS</b>					<b>53.3</b>	<b>48.0</b>	<b>66.7</b>
					<b>(sq. yd)</b>	<b>(sq. yd)</b>	<b>(sq. yd)</b>
<b>USE</b>					<b>54.0</b>	<b>48.0</b>	<b>67.0</b>
					<b>(sq. yd)</b>	<b>(sq. yd)</b>	<b>(sq. yd)</b>

60107600 - PIPE DRAINS, 4"		
LOCATION	# OF DRAINS	FOOT
STA. 886+58 - 887+71	3 @ 11' + 4 @ 56.5'	259.0
STA. 1261+02 - 1261+74	3 @ 24' + 4 @ 36'	216.0
STA. 1275+67 - 1276+15	3 @ 24' + 4 @ 24'	168.0
<b>TOTAL</b>		<b>643.0</b>

\* See Pipe Underdrain Detail

60108100 - PIPE DRAINS, 4" (SPECIAL)		
LOCATION	# OF DRAINS	FOOT
STA. 886+58 - 887+71	3 @ 11'	33.0
STA. 1261+02 - 1261+74	3 @ 13'	39.0
STA. 1275+67 - 1276+15	3 @ 12'	36.0
<b>TOTAL</b>		<b>108.0</b>

\* See Pipe Underdrain Detail

44201759 - CLASS D PATCHES, TYPE IV, 9"	
LOCATION	SQ YD
RT STA. 886+58 - 887+71	163.2
LT STA. 1261+02 - 1261+74	104.0
RT STA. 1261+02 - 1261+74	104.0
LT STA. 1275+67 - 1276+15	69.3
RT STA. 1275+67 - 1276+15	69.3
<b>TOTAL</b>	<b>509.9</b>
<b>USE</b>	<b>510.0</b>

\* Patch Locations are for Pipe Drains, 4" Only.

60100085 - GEOTECHNICAL FABRIC FOR FRENCH DRAINS	
LOCATION	SQ YD
RT STA. 886+58 - 887+71	10.50
LT & RT STA. 1261+02 - 1261+74	19.75
LT & RT STA. 1275+67 - 1276+15	19.75
<b>TOTAL</b>	<b>50.0</b>
<b>USE</b>	<b>50.0</b>

* 60100060 - CONCRETE HEADWALL FOR PIPE DRAINS	
LOCATION	EACH
<b>NORTHBOUND</b>	
STA. 886+58 - 887+71	3.0
<b>SOUTHBOUND</b>	
STA. 1261+02 - 1261+74	3.0
STA. 1275+67 - 1276+15	3.0
<b>TOTAL</b>	<b>9.0</b>

\* @ Each Patch location, three underdrains w/ headwalls to be placed to maximize the drainage of the patch area.

DRAINAGE SCHEDULE @ S.N. 092-0101			
LOCATION	60100955 - PIPE DRAINS, 15"	60403400 - GRATES, TYPE A	60900515 - CONCRETE THRUST BLOCKS
	FOOT	EACH	EACH
LT STA. 850+16.10	14.0	1.0	2.0
RT STA. 849+73	13.0	1.0	2.0
LT STA. 865+18.80	27.0	1.0	2.0
RT STA. 865+18.80	30.0	1.0	2.0
<b>TOTAL</b>	<b>84.0</b>	<b>4.0</b>	<b>8.0</b>
<b>USE</b>	<b>84.0</b>	<b>4.0</b>	<b>8.0</b>

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES**

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

PLOT DATE = 11/15/2007  
 FILE NAME = c:\projects\595580 (v8)\rev.plamhats.dgn  
 PLOT SCALE = 42,352% / IN.  
 USER NAME = collierb



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

70300100 - SHORT-TERM PAVEMENT MARKING	
LOCATION	FOOT
<b>SKIP-DASH (YELLOW)</b>	
STA. 765+00 - 837+24 (BK)	2167.2
STA. EQ. 837+24 (BK) = 837+20 (AH)	
(AH) STA. 837+20 - 870+00 (BK)	984.0
STA. EQ. 870+00 (BK) = 870+71 (AH)	
(AH) STA. 870+71 - 1280+10	12281.7
<b>TOTAL</b>	<b>15432.9</b>
<b>USE</b>	<b>15433.0</b>

70301000 - WORK ZONE PAVEMENT MARKING REMOVAL	
LOCATION	SQ FT
<b>SKIP-DASH (YELLOW)</b>	
STA. 765+00 - 837+24 (BK)	240.6
STA. EQ. 837+24 (BK) = 837+20 (AH)	
(AH) STA. 837+20 - 870+00 (BK)	109.2
STA. EQ. 870+00 (BK) = 870+71 (AH)	
(AH) STA. 870+71 - 1280+10	1363.3
<b>TOTAL</b>	<b>1713.1</b>
<b>USE</b>	<b>1714.0</b>

78001110 - PAINT PAVEMENT MARKING LINE, 4"			
LOCATION	FOOT	LOCATION	FOOT
<b>SKIP-DASH (YELLOW)</b>		<b>EDGE LINES - SOLID (WHITE)</b>	
STA. 765+00 - 837+24 (BK)	7224.0	IL 49	
STA. EQ. 837+24 (BK) = 837+20 (AH)		LT STA. 1280+10 - 765+00	51510.0
(AH) STA. 837+20 - 870+00 (BK)	3280.0	RT STA. 1280+10 - 765+00	51510.0
STA. EQ. 870+00 (BK) = 870+71 (AH)			
(AH) STA. 870+71 - 1280+10	40939.0	<b>SUB-TOTAL</b>	<b>103020.0</b>
<b>SUB-TOTAL</b>	<b>51443.0</b>		
SPACING = 62948.8 / 40 x 10			
<b>SUB-TOTAL</b>	<b>12860.8</b>		
<b>NO PASSING ZONE - DOUBLE (YELLOW)</b>		<b>NO PASSING ZONE - DOUBLE (YELLOW)</b>	
<b>NORTHBOUND</b>		<b>SOUTHBOUND</b>	
STA. 801+83 - 810+80	897.0	STA. 809+22 - 817+67	845.0
STA. 843+01 - 857+27	1426.0	STA. 852+51 - 864+66	1215.0
STA. 881+55 - 886+83	528.0	STA. 892+11 - 897+92	581.0
STA. 914+29 - 924+85	1056.0	STA. 932+24 - 937+52	528.0
STA. 940+69 - 946+50	581.0	STA. 952+31 - 957+59	528.0
STA. 1088+53 - 1094+87	634.0	STA. 1099+09 - 1105+43	634.0
STA. 1211+55 - 1218+42	687.0	STA. 1222+64 - 1229+51	687.0
STA. 1235+84 - 1243+76	792.0	STA. 1246+93 - 1254+85	792.0
STA. 1252+21 - 1259+07	686.0	STA. 1263+30 - 1270+16	686.0
<b>SUB-TOTAL</b>	<b>7287.0</b>	<b>SUB-TOTAL</b>	<b>6496.0</b>
<b>TOTAL</b>		<b>TOTAL</b>	<b>129663.8</b>
<b>USE</b>		<b>USE</b>	<b>129664.0</b>

RRPM SCHEDULE		
LOCATION	78300200 - RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	78100100 - RAISED REFLECTIVE PAVEMENT MARKERS
	EACH	EACH
STA. 765+00 - 837+24 (IL49)	91.0	91.0
STA. 837+20 - 870+00 (IL49)	41.0	41.0
STA. 870+71 - 1280+10(IL49)	512.0	512.0
STA. EQ. 837+24 (BK) = 837+20 (AH)		
STA. EQ. 870+00 (BK) = 870+71 (AH)		
<b>TOTAL</b>	<b>644.0</b>	<b>644.0</b>

X0301232 - SURVEY MARKER VAULT		
LOCATION	EX. TYPE	EACH
70' RT. STA. 1075+74.5	5/8" PIN	1.0
<b>TOTAL</b>		<b>1.0</b>

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

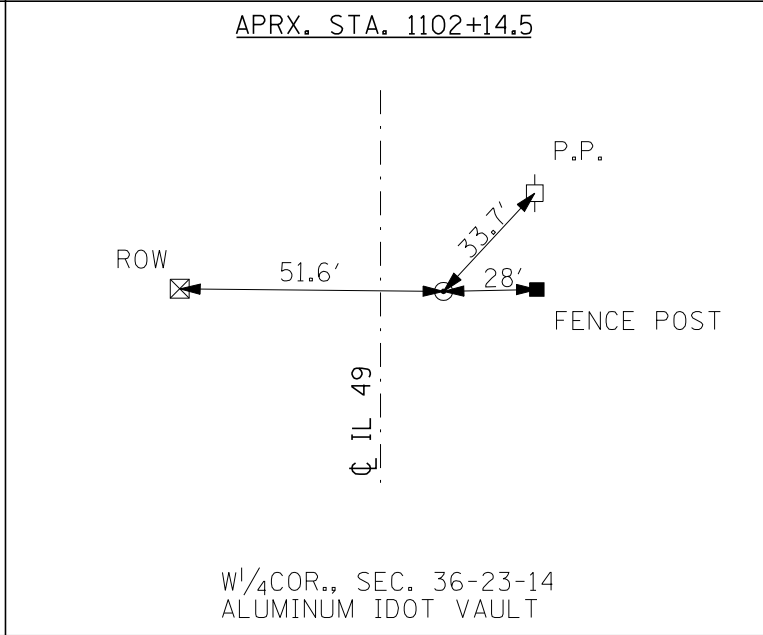
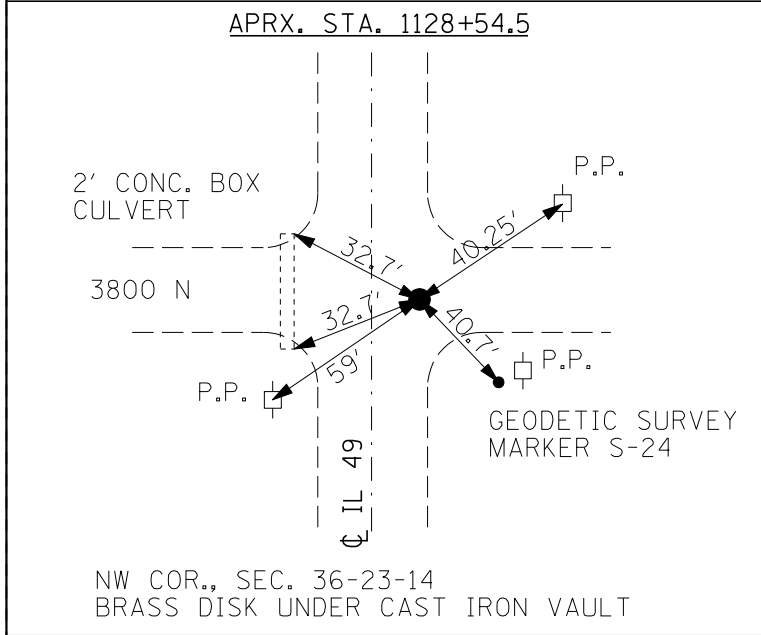
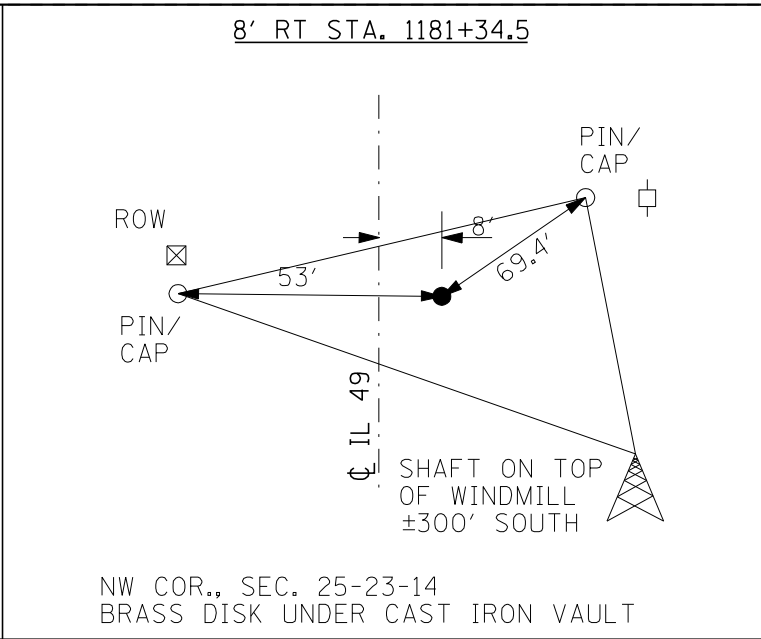
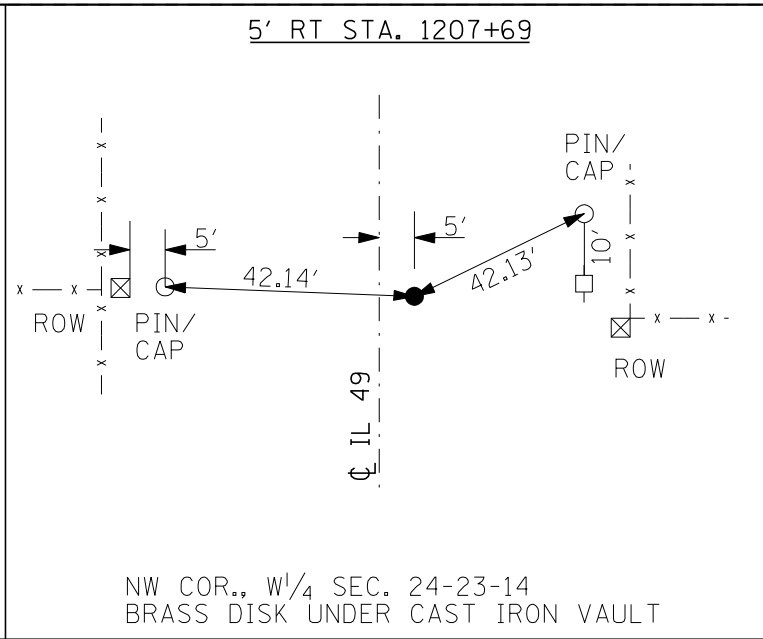
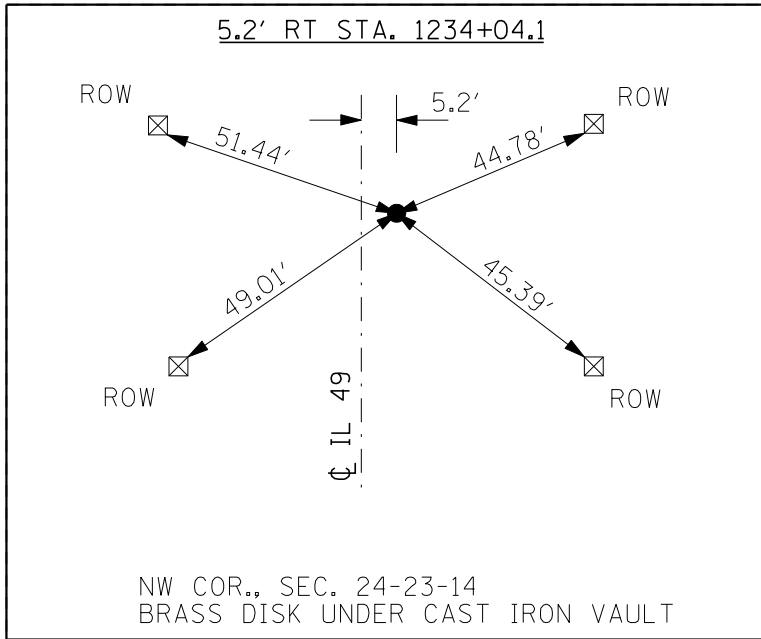
**SCHEDULE OF QUANTITIES**

SCALE: VERT. / HORIZ. DATE

DRAWN BY / CHECKED BY



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BENCHMARK:  
CHISLED SQUARE ON TOP OF THE NORTHWEST WINGWALL OF BRIDGE  
STA. 1281+22.81  
ELEVATION = 716.459

PLOT DATE = 11/15/2007  
FILE NAME = c:\projects\4595800 (v8)\rev.plmshs.dgn  
PLOT SCALE = 42.3525' / IN.  
USER NAME = collierb

REVISIONS	
NAME	DATE

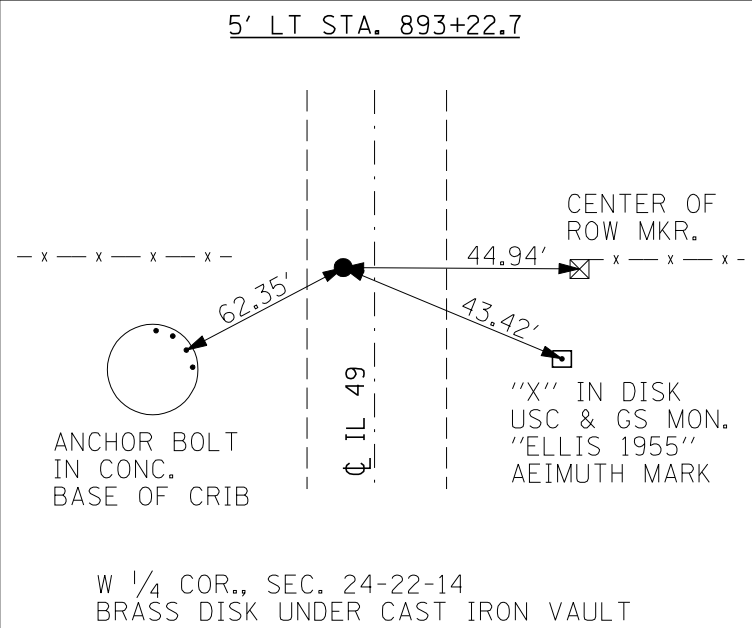
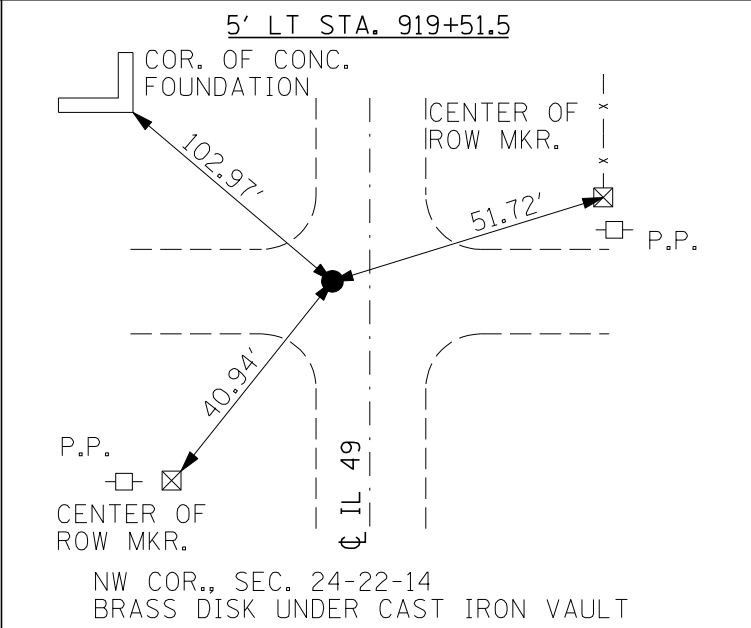
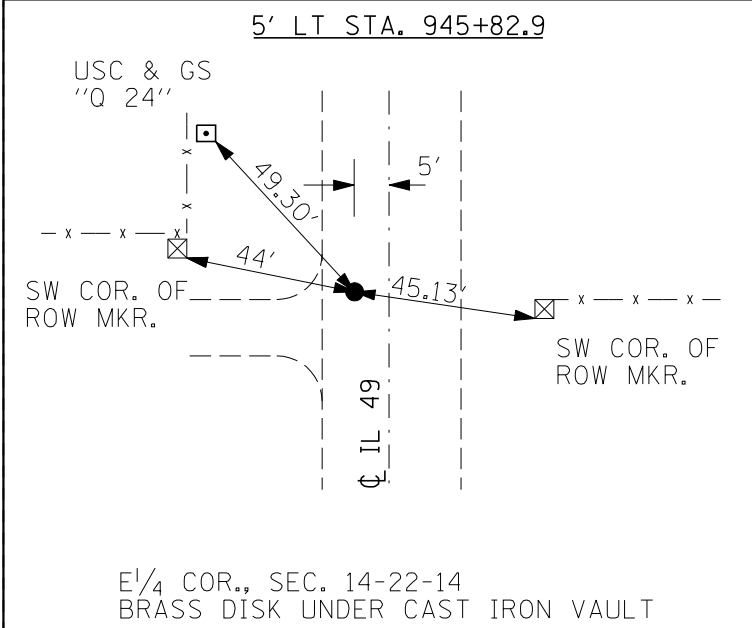
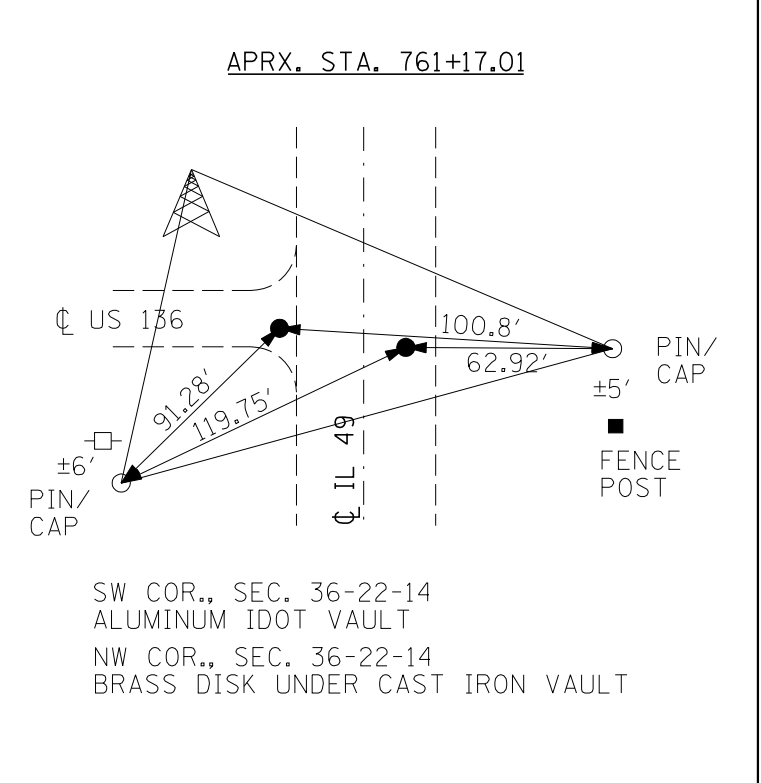
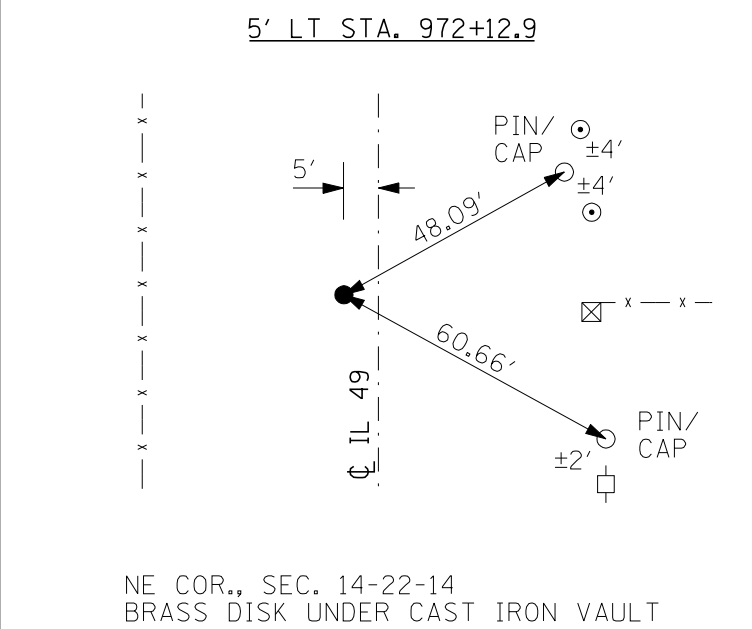
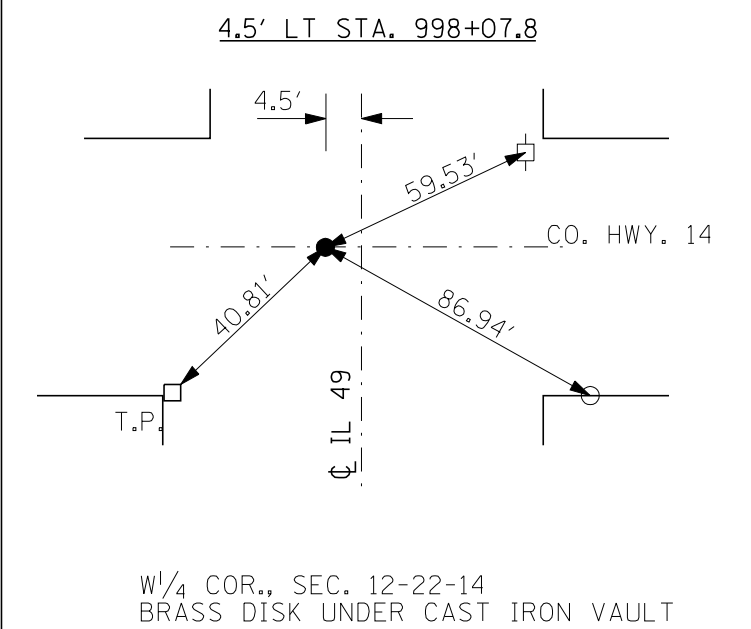
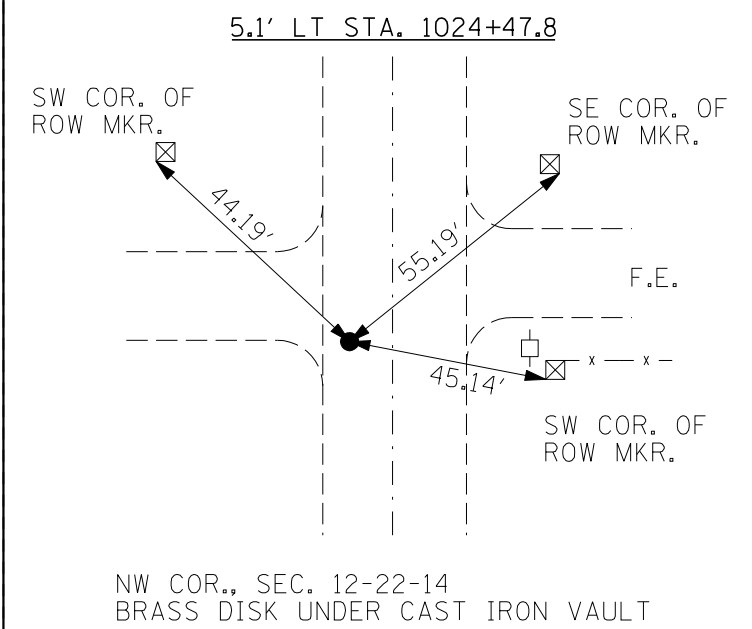
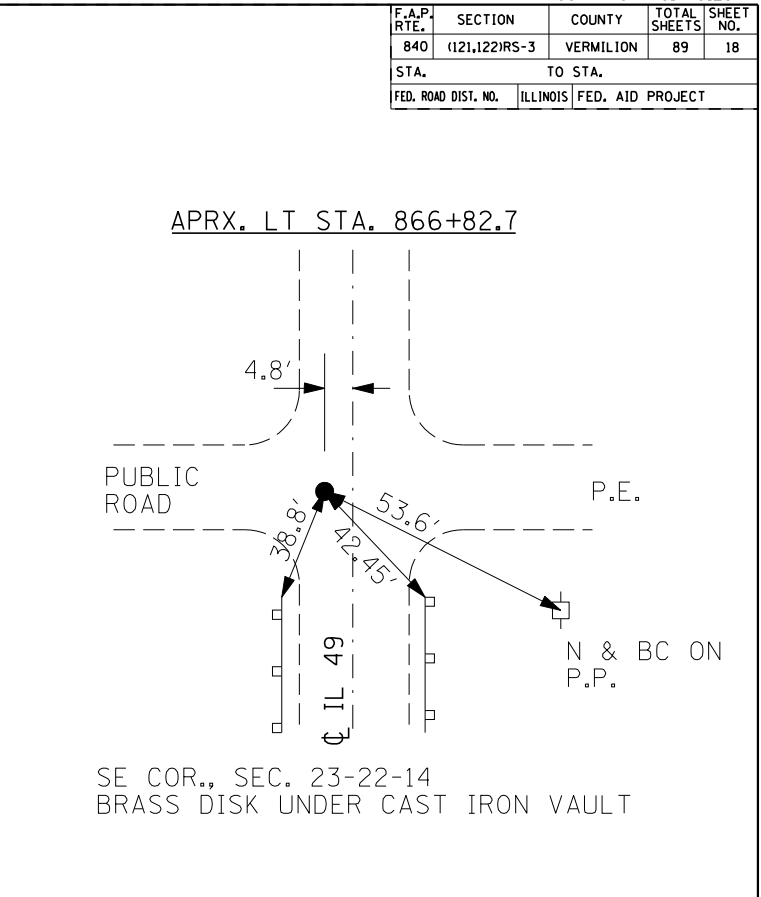
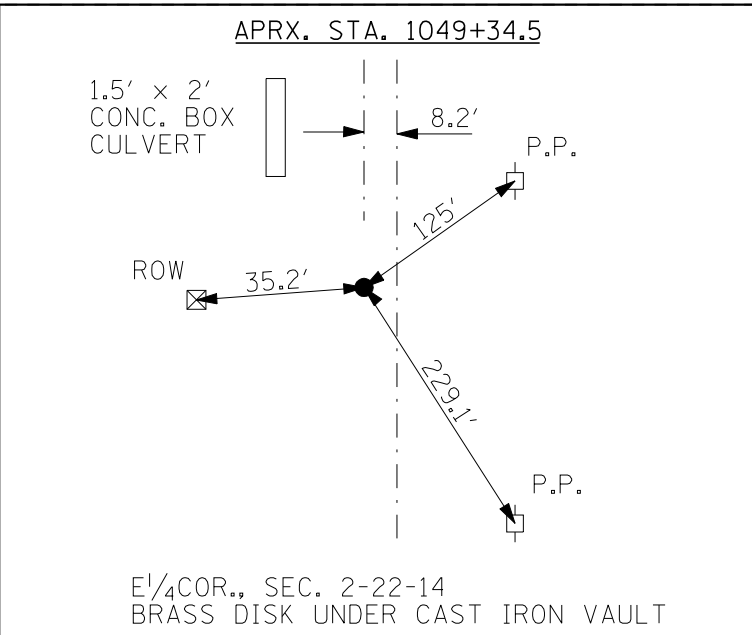
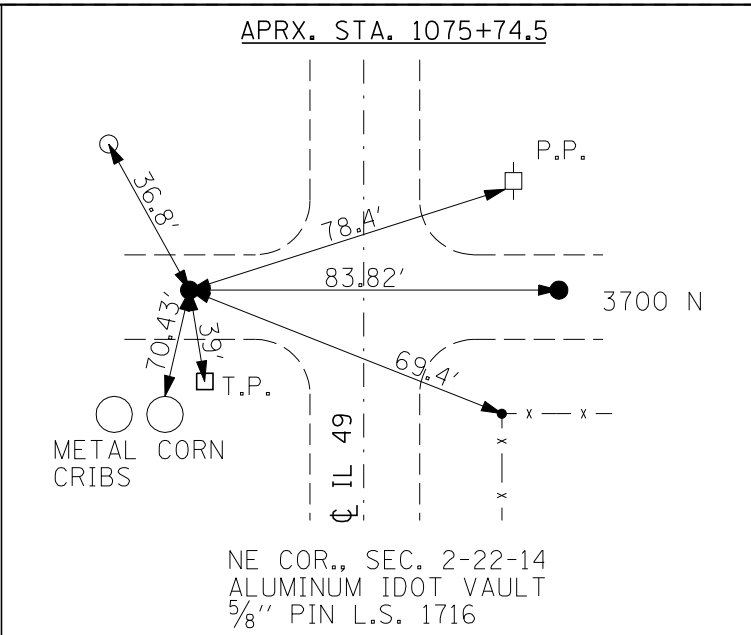
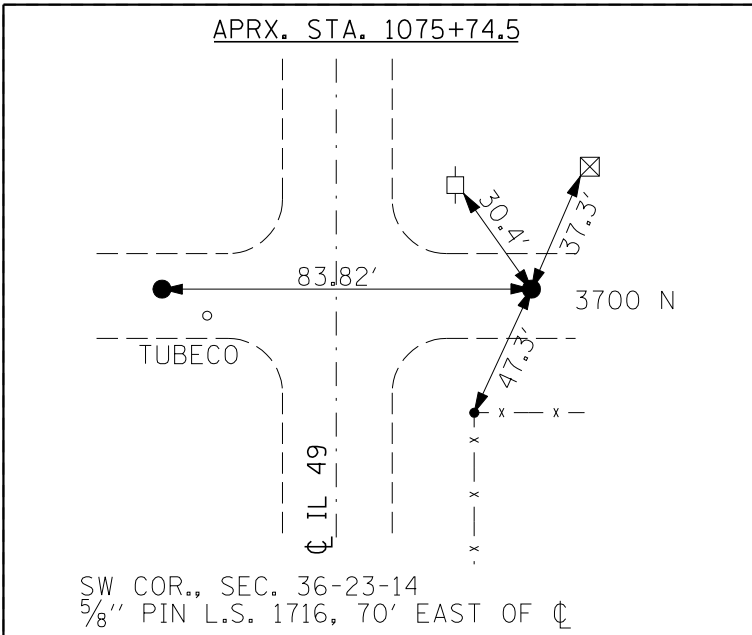
ILLINOIS DEPARTMENT OF TRANSPORTATION

**TIE POINTS / BENCHMARKS**

SCALE: VERT. / HORIZ.  
DATE

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TIE POINTS / BENCHMARKS (CONT'D)**

SCALE: VERT. HORIZ.  
DATE

DRAWN BY  
CHECKED BY

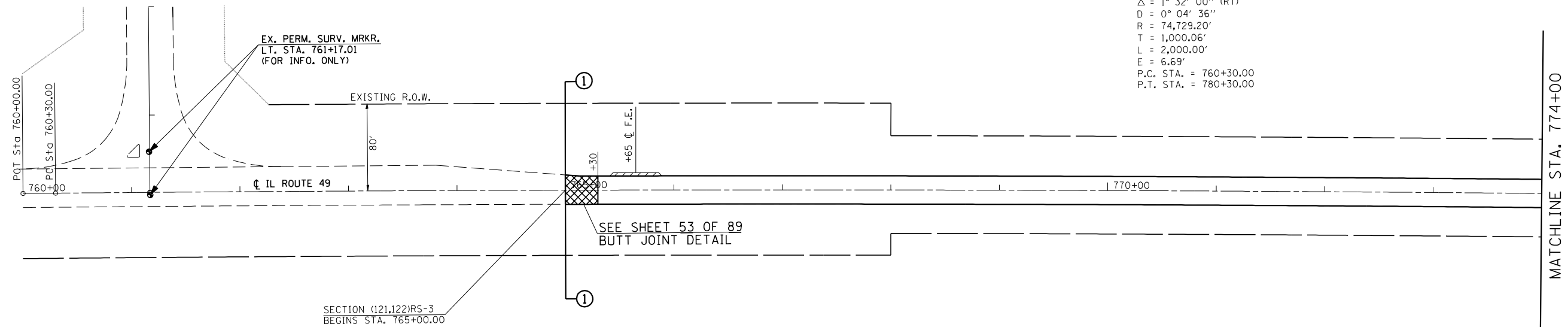
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USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	19
STA. 760+00		TO STA. 788+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC. 35, T 22 N, R 14 W

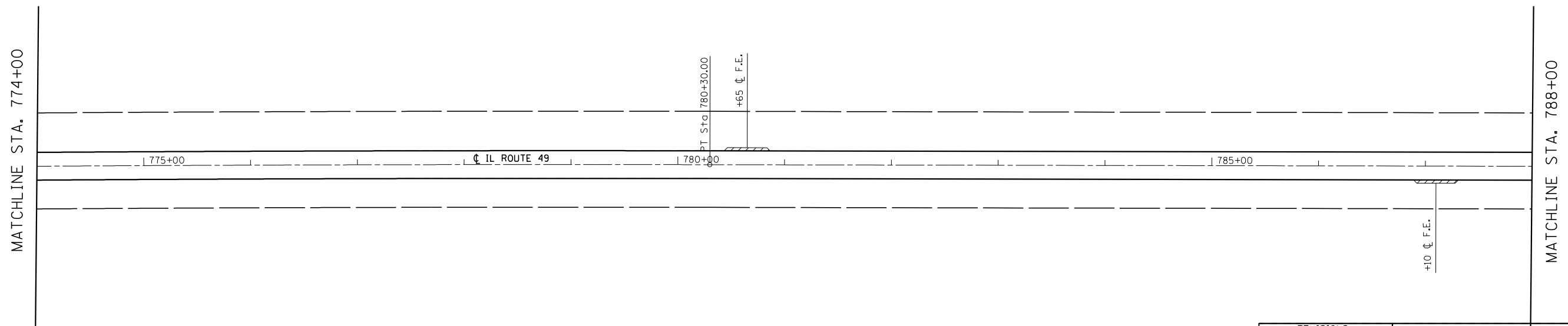


EXIST. CURVE CUR1  
 PI STA. = 770+30.06  
 $\Delta = 1^\circ 32' 00''$  (RT)  
 $D = 0^\circ 04' 36''$   
 $R = 74,729.20'$   
 $T = 1,000.06'$   
 $L = 2,000.00'$   
 $E = 6.69'$   
 P.C. STA. = 760+30.00  
 P.T. STA. = 780+30.00

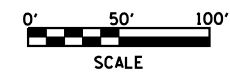


SEC. 36, T 22 N, R 14 W

SEC. 35, T 22 N, R 14 W



SEC. 36, T 22 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING / PROPOSED  
 PLAN SHEETS  
 STA. 760+00 - 788+00**

SCALE: VERT.  
 HORIZ.  
 DATE

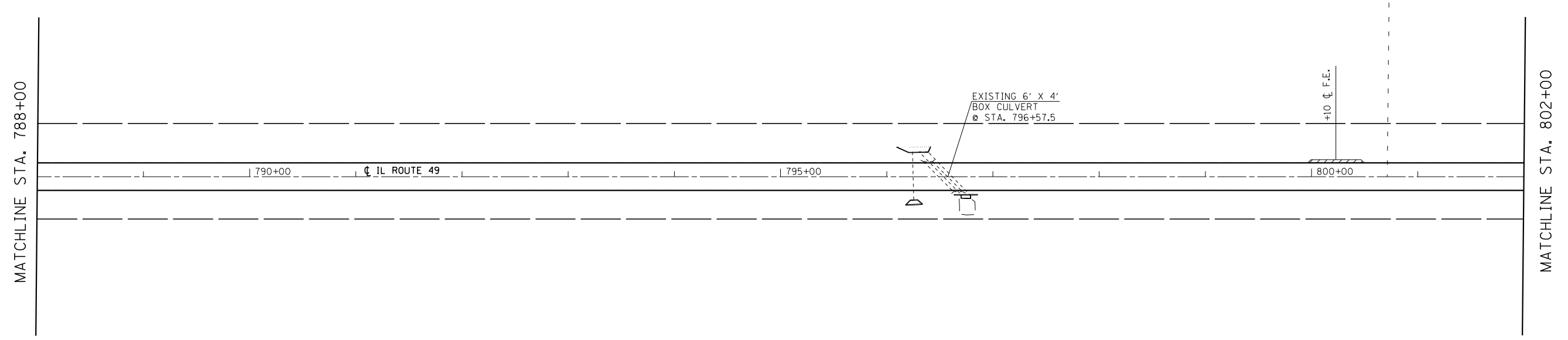
DRAWN BY  
 CHECKED BY

PLOT DATE = 11/15/2007  
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 PLOT SCALE = 1/8"=1'-0" / IN.  
 USER NAME = collierb

INCIDENTAL HMA RESURFACING

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	20
STA. 788+00		TO STA. 816+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC. 35, T 22 N, R 14 W

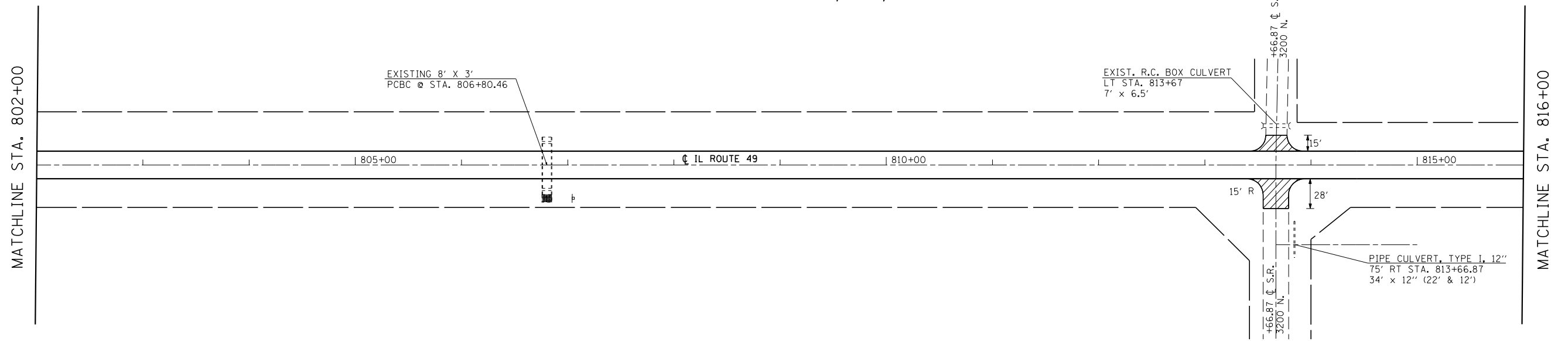


INCIDENTAL HMA RESURFACING

SEC. 36, T 22 N, R 14 W

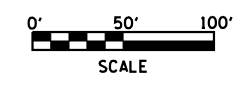
SEC. 35, T 22 N, R 14 W

SEC. 26, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 36, T 22 N, R 14 W



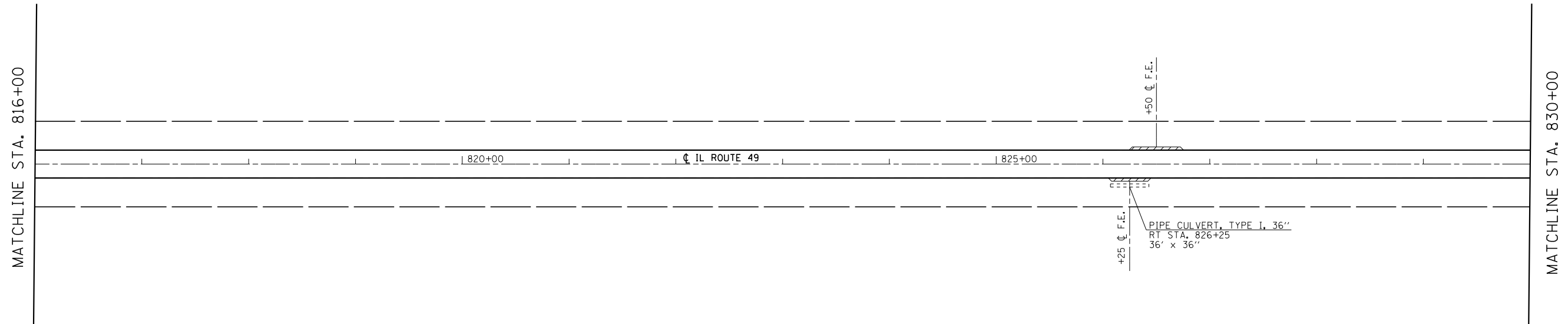
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING / PROPOSED  
 PLAN SHEETS**  
**STA. 788+00 - 816+00**  
 SCALE: VERT. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 11/15/2007  
 FILE NAME = c:\projects\45955800 (v8)\rev.plansheets.dgn  
 PLOT SCALE = 1/8" = 100' / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	21
STA. 816+00		TO STA. 844+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

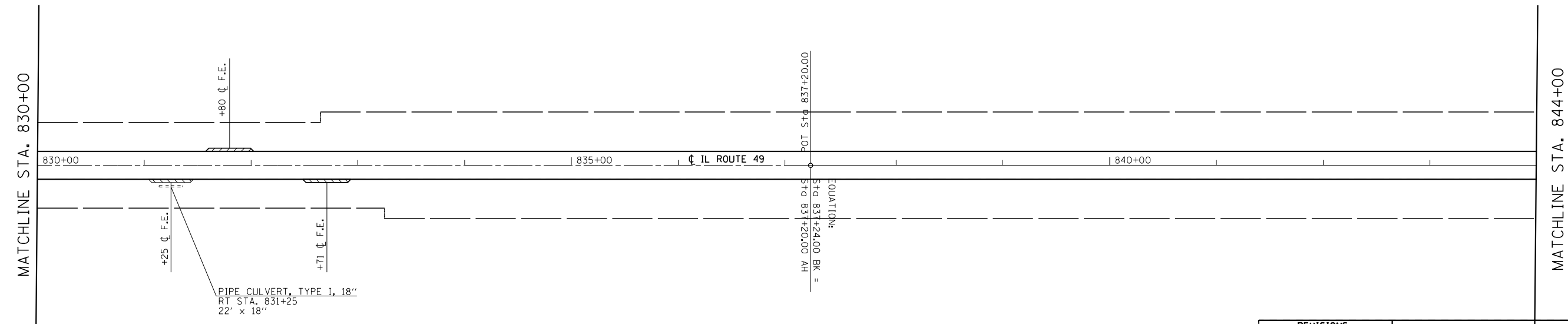
SEC. 26, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

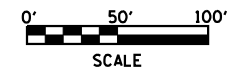
SEC. 25, T 22 N, R 14 W

SEC. 26, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 25, T 22 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

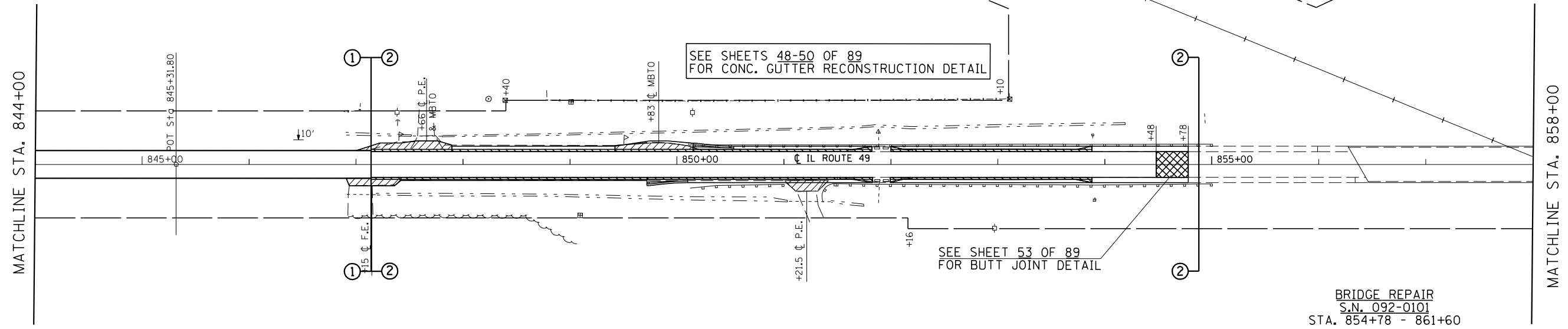
**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 816+00 - 844+00**



SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	22
STA. 844+00		TO STA. 873+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC. 26, T 22 N, R 14 W

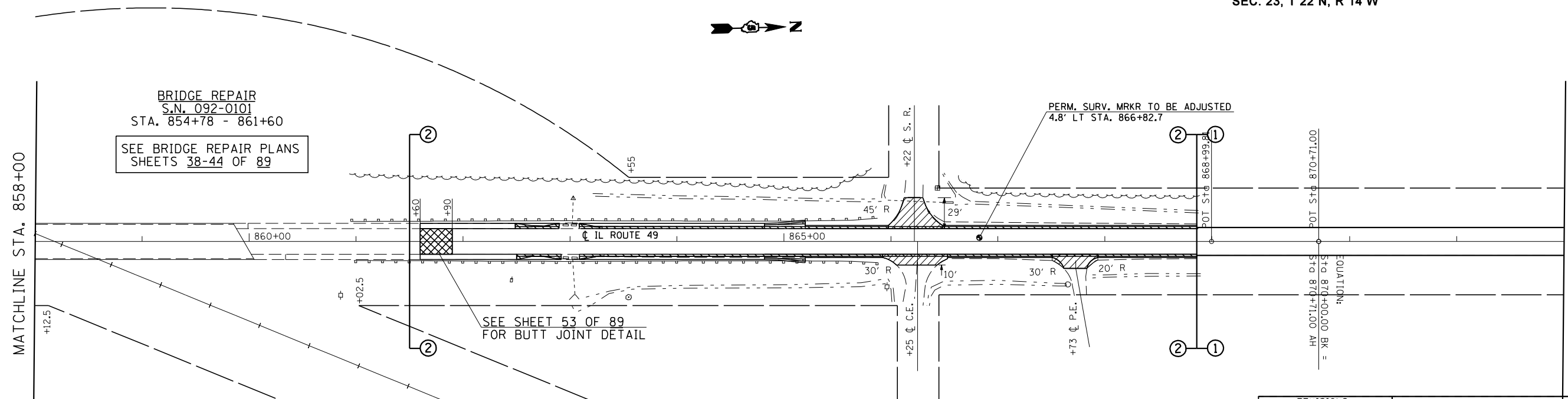




-  HMA SURFACE REMOVAL - BUTT JOINT
-  INCIDENTAL HMA RESURFACING

SEC. 25, T 22 N, R 14 W

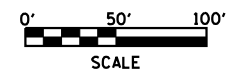
SEC. 26, T 22 N, R 14 W

SEC. 23, T 22 N, R 14 W



-  HMA SURFACE REMOVAL - BUTT JOINT
-  INCIDENTAL HMA RESURFACING

SEE SHEETS 48-50 OF 89 FOR CONC. GUTTER RECONSTRUCTION DETAIL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING / PROPOSED PLAN SHEETS**

**STA. 844+00 - 873+00**

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

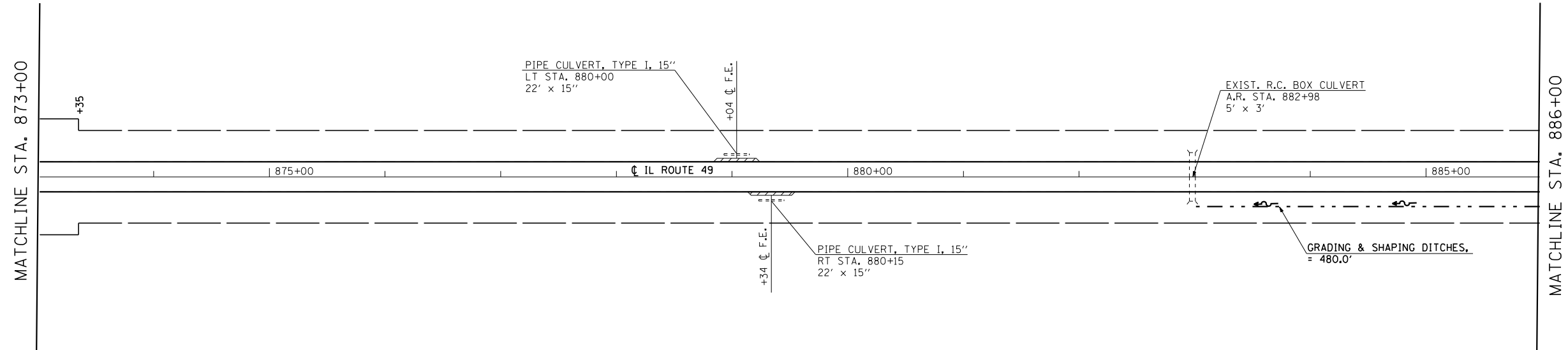
SEC. 25, T 22 N, R 14 W

SEC. 24, T 22 N, R 14 W

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USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	23
STA. 873+00		TO STA. 901+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

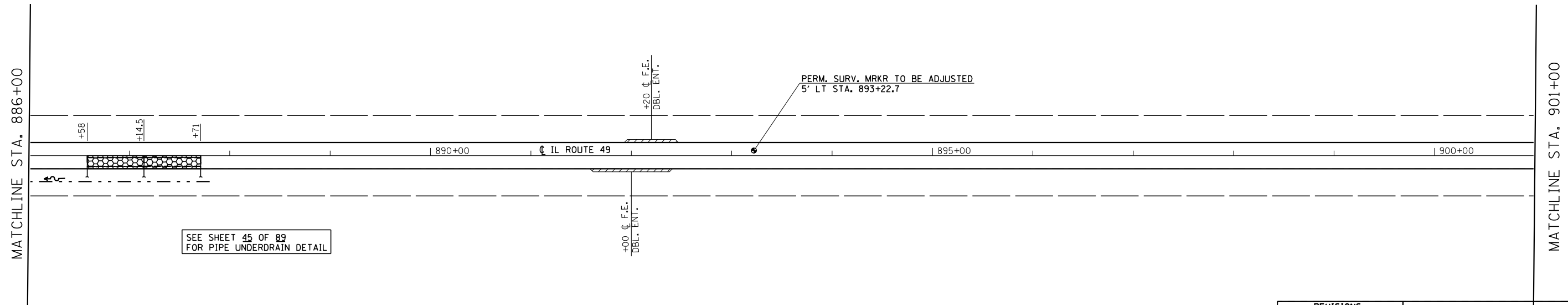
SEC. 23, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 24, T 22 N, R 14 W

SEC. 23, T 22 N, R 14 W

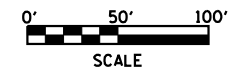


SEE SHEET 45 OF 89 FOR PIPE UNDERDRAIN DETAIL

INCIDENTAL HMA RESURFACING

CLASS D PATCH, TYPE IV, 9"

SEC. 24, T 22 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

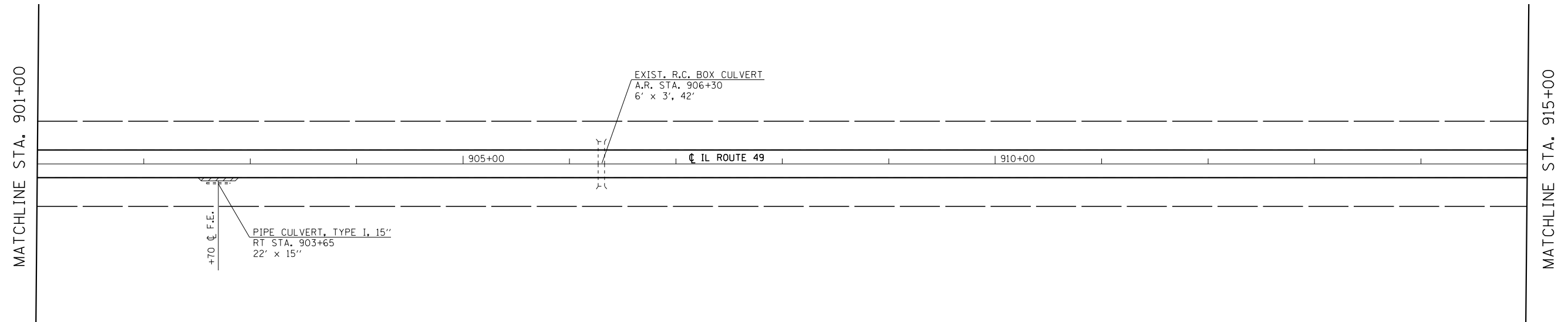
**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 873+00 - 901+00**

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	24
STA. 901+00		TO STA. 929+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC. 23, T 22 N, R 14 W



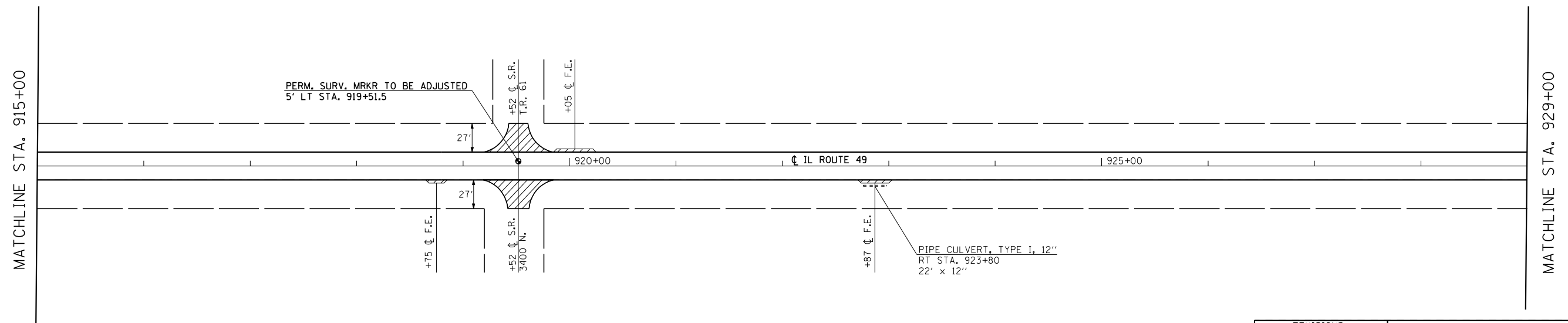
INCIDENTAL HMA RESURFACING

SEC. 24, T 22 N, R 14 W

SEC. 23, T 22 N, R 14 W



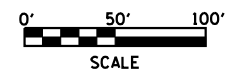
SEC. 14, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 24, T 22 N, R 14 W

SEC. 13, T 22 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 901+00 - 929+00**

SCALE: VERT.  
HORIZ.  
DATE

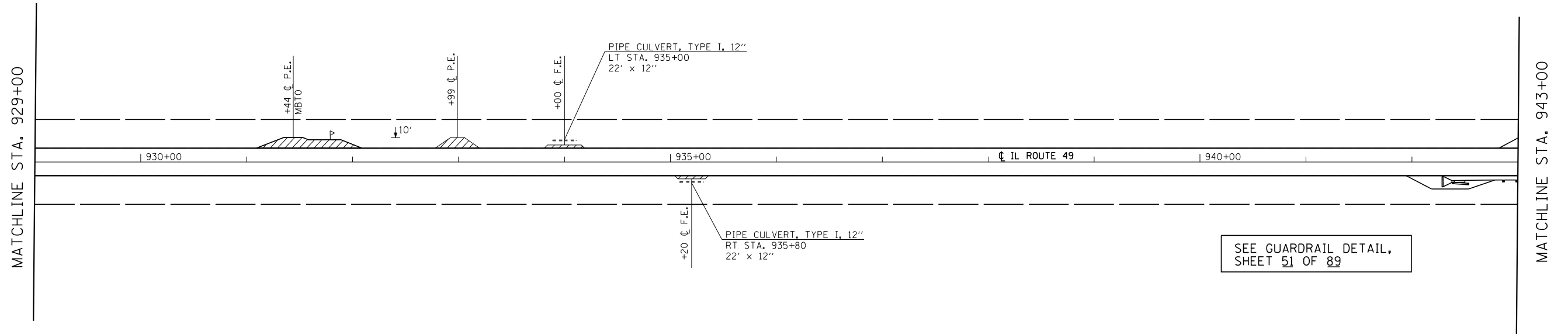
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USER NAME = collierb



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	25
STA. 929+00		TO STA. 957+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SEC. 14, T 22 N, R 14 W

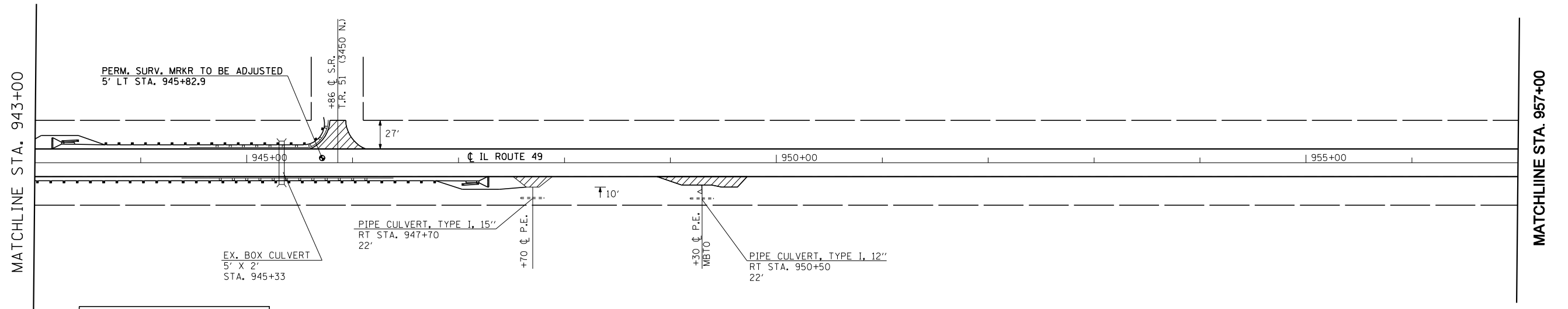


SEE GUARDRAIL DETAIL, SHEET 51 OF 89

INCIDENTAL HMA RESURFACING

SEC. 13, T 22 N, R 14 W

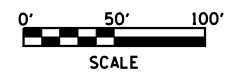
SEC. 14, T 22 N, R 14 W



SEE GUARDRAIL DETAIL, SHEET 51 OF 89

INCIDENTAL HMA RESURFACING

SEC. 13, T 22 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 929+00 - 957+00**

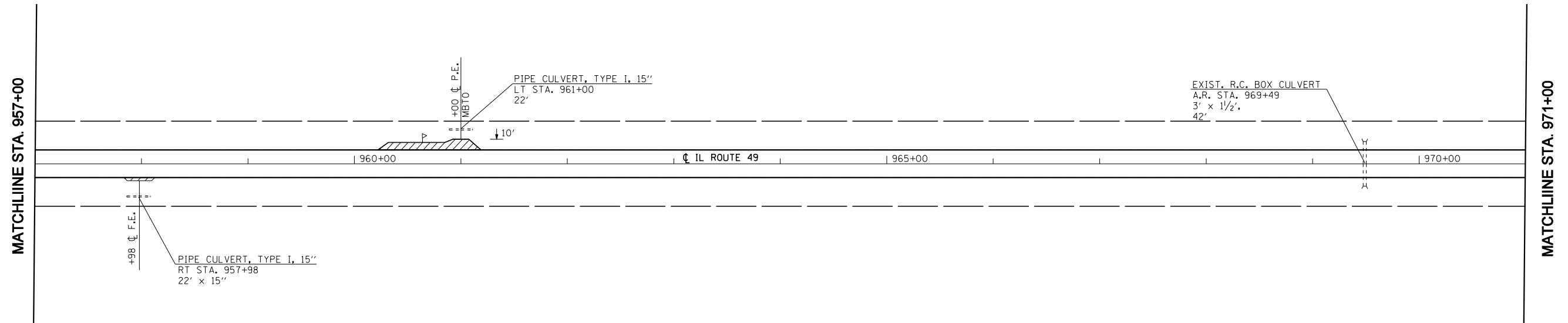
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HORIZ.  
DATE

DRAWN BY  
CHECKED BY

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USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	26
STA. 957+00		TO STA. 985+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

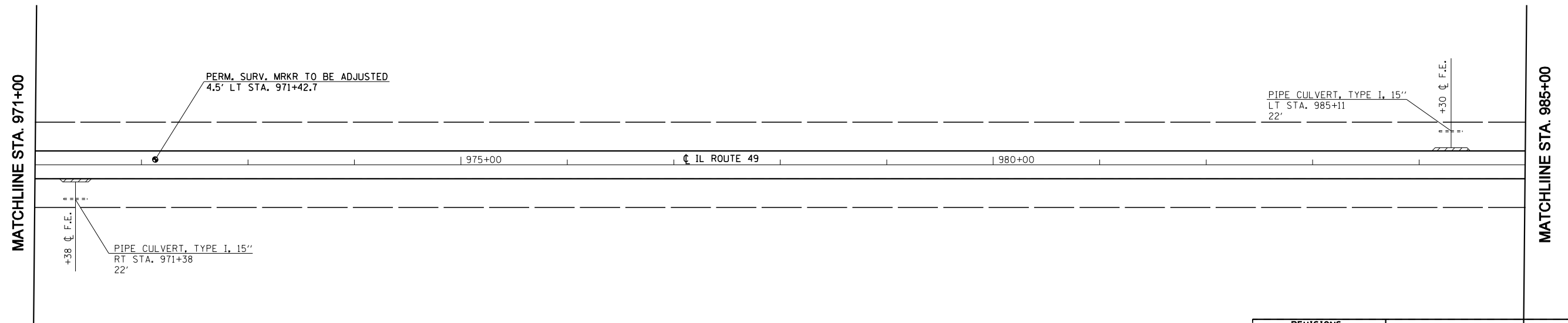
SEC. 14, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

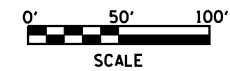
SEC. 13, T 22 N, R 14 W

SEC. 14, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 13, T 22 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

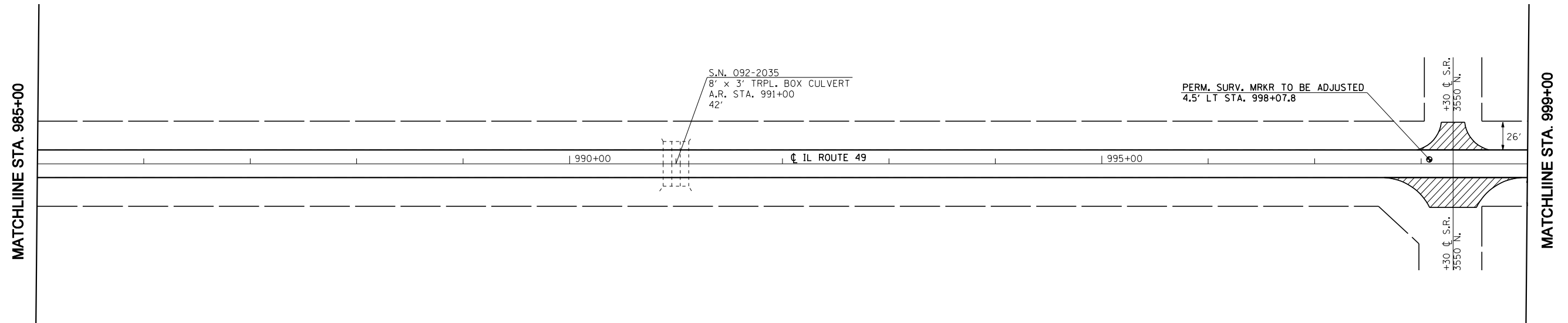
**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 957+00 - 985+00**

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	27
STA. 985+00		TO STA. 1013+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

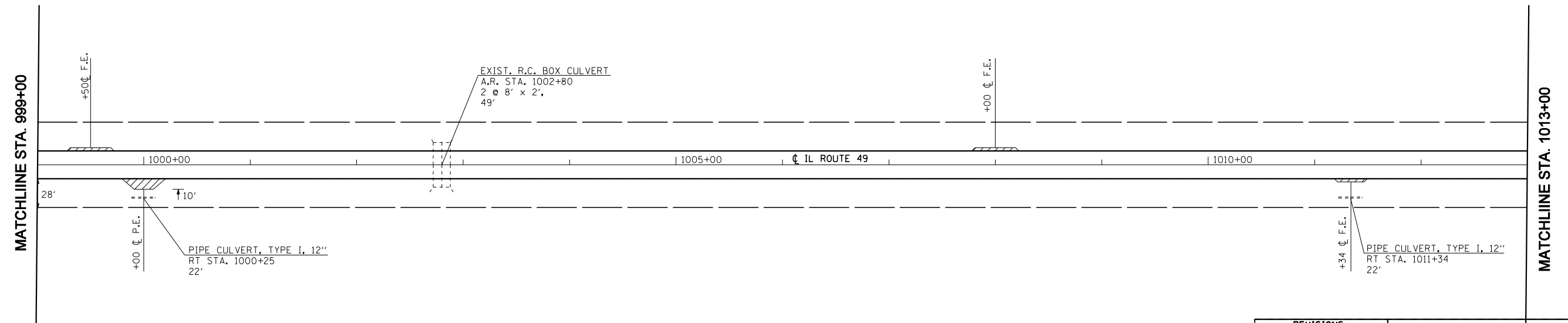
SEC. 11, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

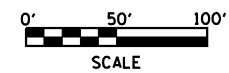
SEC. 12, T 22 N, R 14 W

SEC. 11, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 12, T 22 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 985+00 - 1013+00**

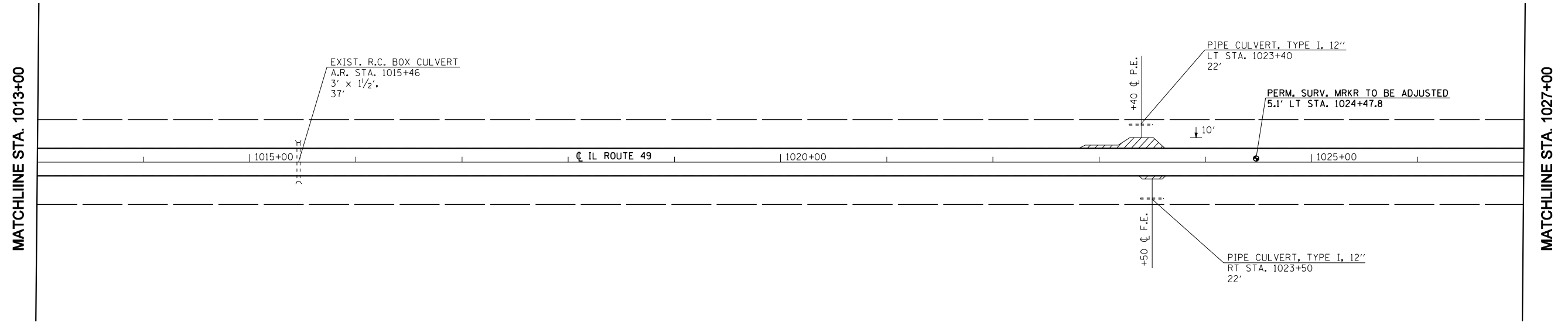
SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

PLOT DATE = 11/15/2007  
FILE NAME = c:\projects\0595800 (v8)\rev.planshts.dgn  
PLOT SCALE = 1/8" = 100' / IN.  
USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	28
STA. 1013+00		TO STA. 1041+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

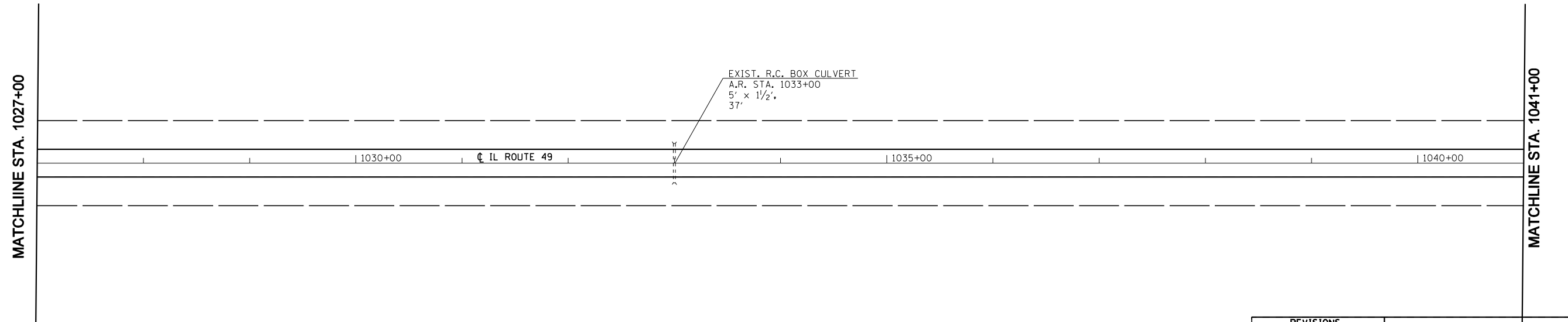
SEC. 11, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

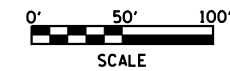
SEC. 12, T 22 N, R 14 W

SEC. 2, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 1, T 22 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

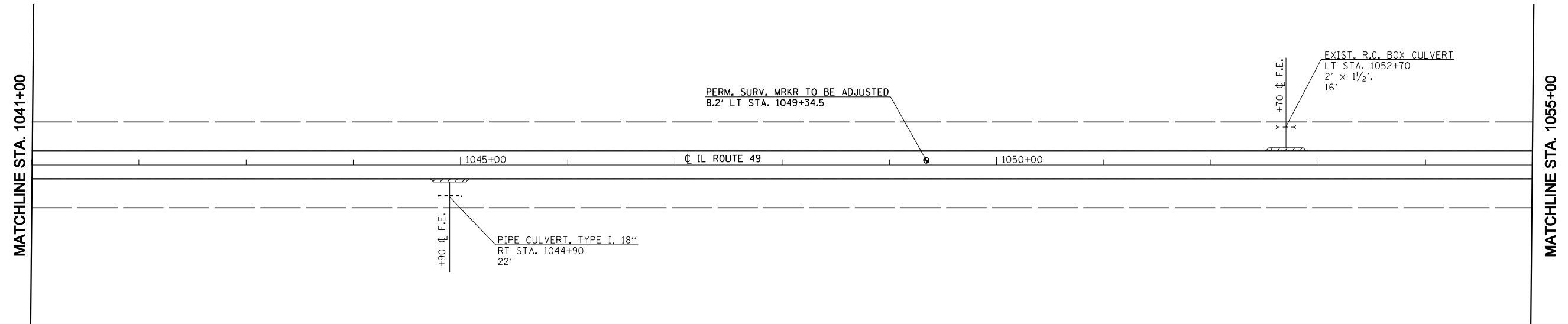
**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 1013+00 - 1041+00**

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	29
STA. 1041+00		TO STA. 1069+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

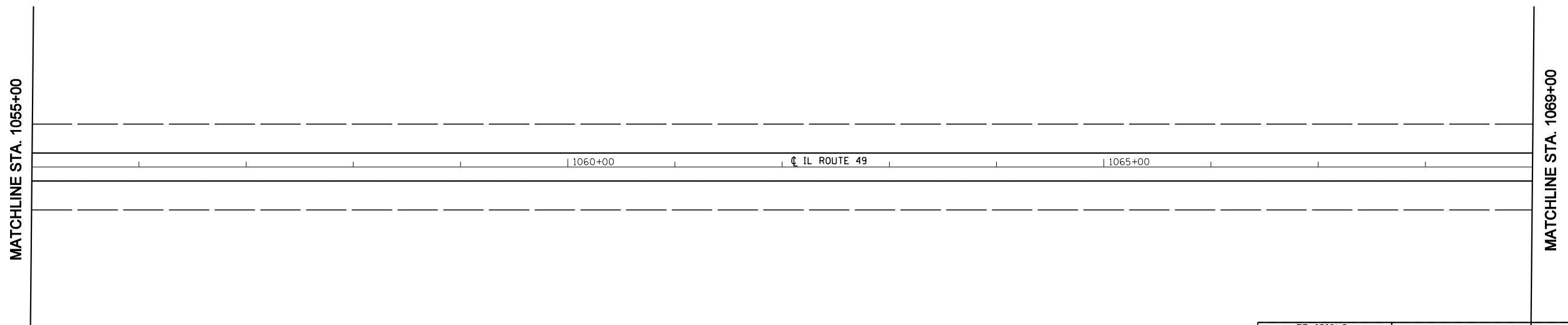
SEC. 11, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 12, T 22 N, R 14 W

SEC. 11, T 22 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 12, T 22 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 1041+00 - 1069+00**

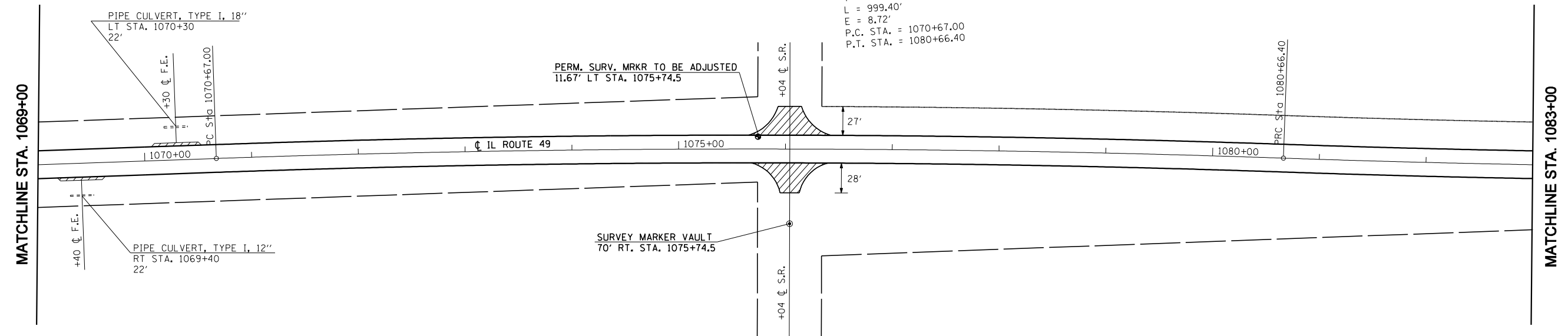
SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

PLOT DATE = 11/15/2007  
FILE NAME = c:\projects\45955800 (v8)\rev.planshts.dgn  
PLOT SCALE = 1/8" = 100' / IN.  
USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	30
STA. 1069+00		TO STA. 1097+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

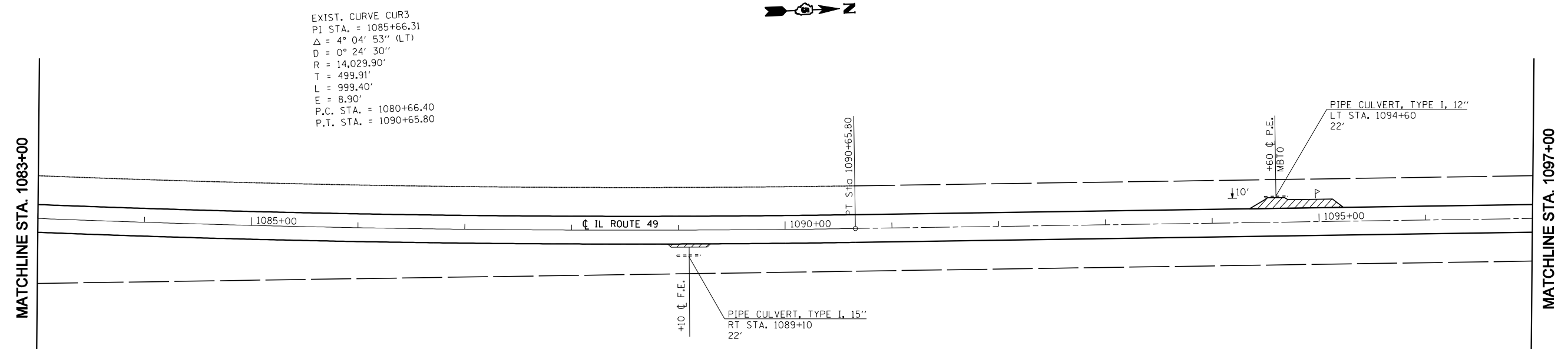
SEC. 35, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

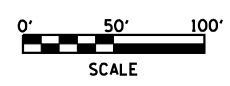
SEC. 36, T 23 N, R 14 W

SEC. 35, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 36, T 23 N, R 14 W



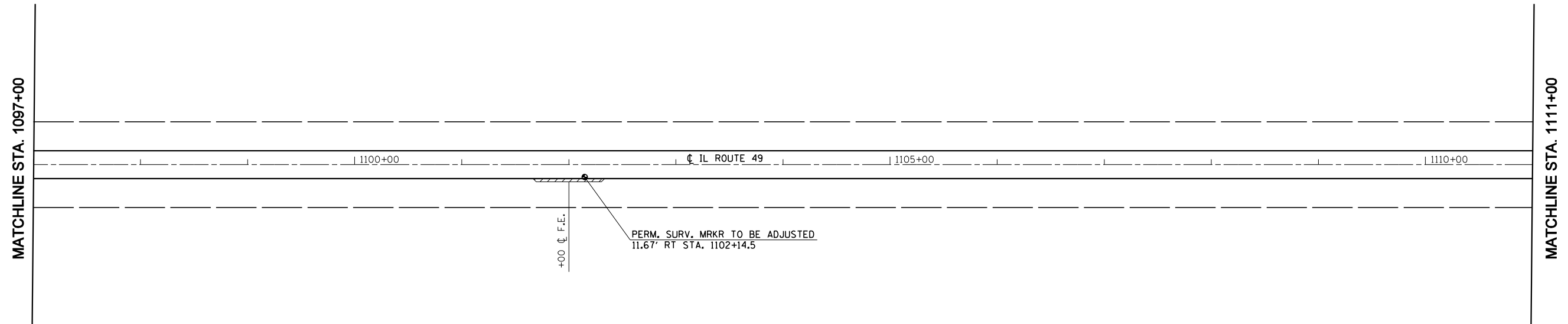
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING / PROPOSED  
 PLAN SHEETS**  
**STA. 1069+00 - 1097+00**  
 SCALE: VERT. / HORIZ.  
 DATE:                      DRAWN BY:                      CHECKED BY:

PLOT DATE = 11/15/2007  
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 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	31
STA. 1097+00		TO STA. 1125+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

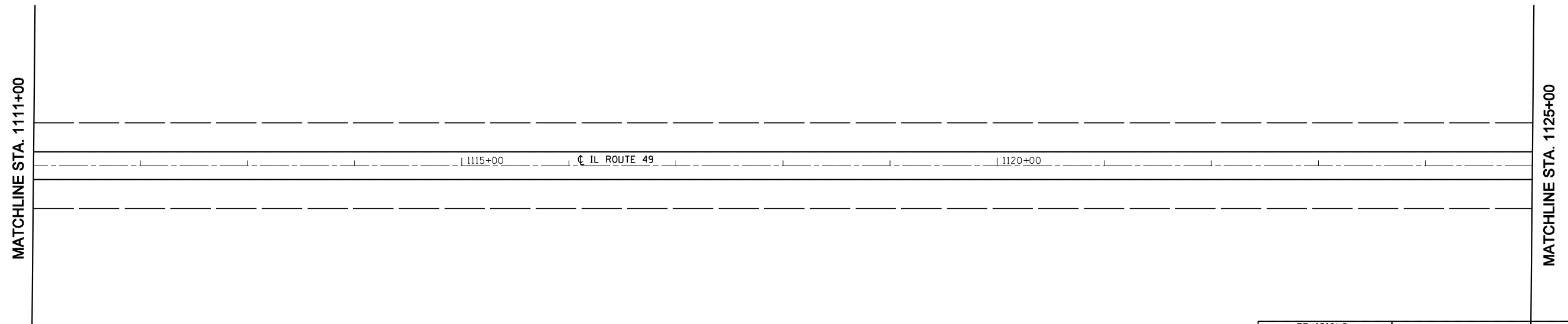
SEC. 35, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

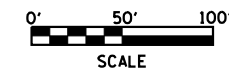
SEC. 36, T 23 N, R 14 W

SEC. 35, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 36, T 23 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

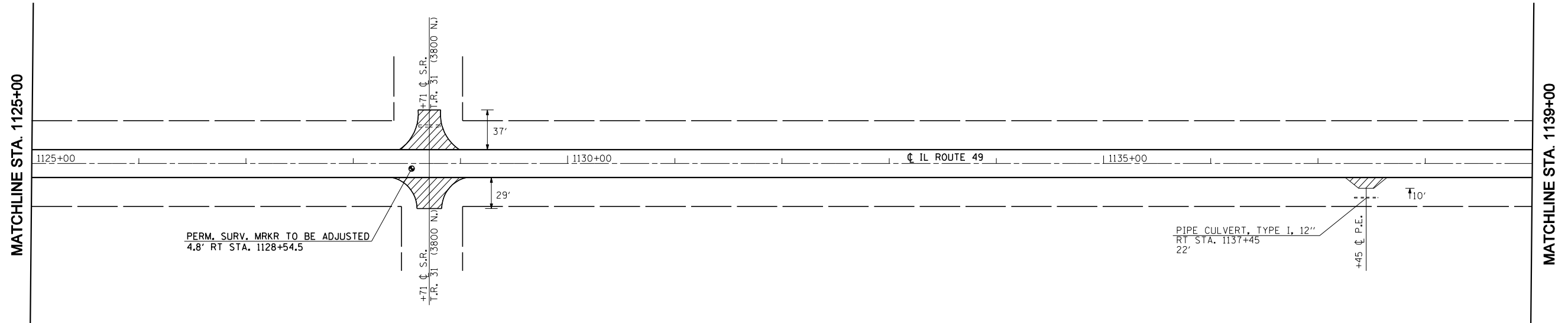
**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 1097+00 - 1125+00**

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	32
STA. 1125+00		TO STA. 1153+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

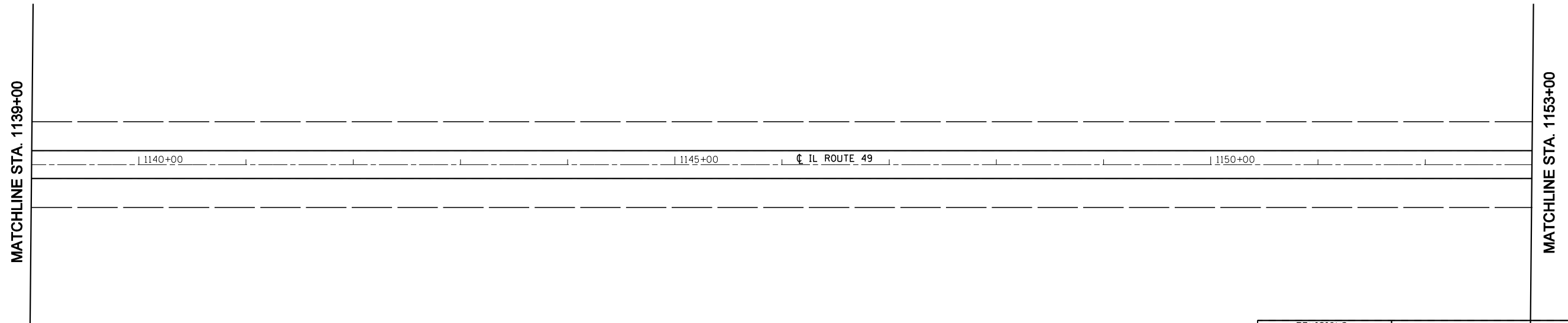
SEC. 26, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

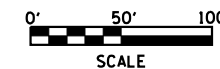
SEC. 25, T 23 N, R 14 W

SEC. 26, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 25, T 23 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 1125+00 - 1153+00**

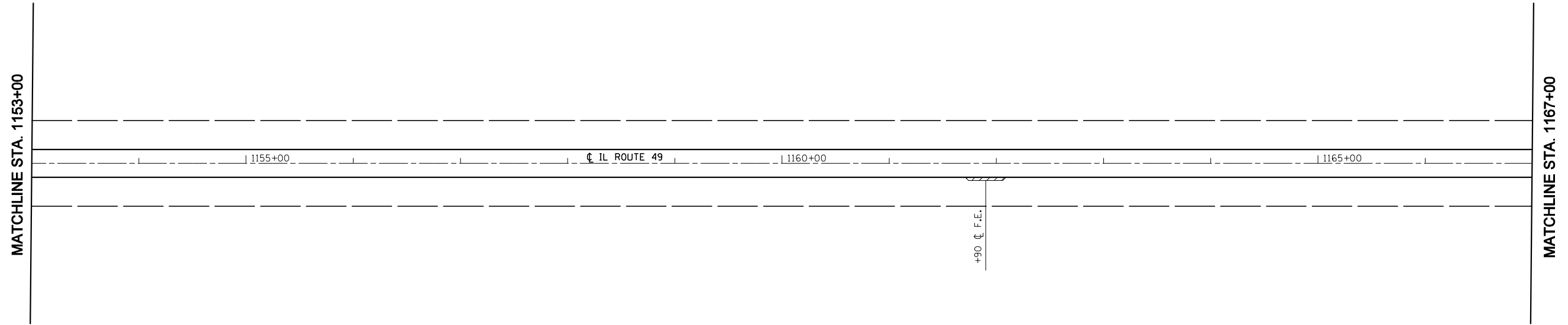
SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	33
STA. 1153+00		TO STA. 1181+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

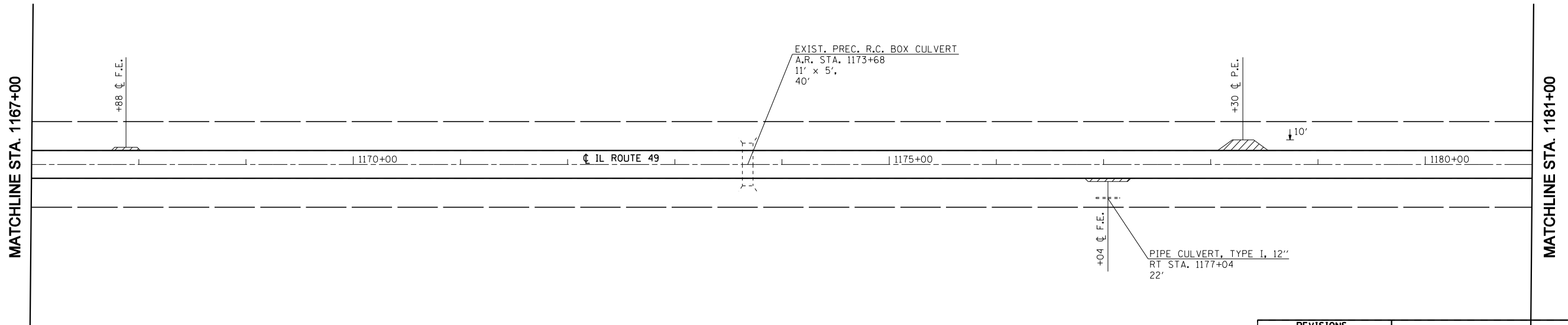
SEC. 26, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

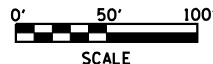
SEC. 25, T 23 N, R 14 W

SEC. 26, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 25, T 23 N, R 14 W



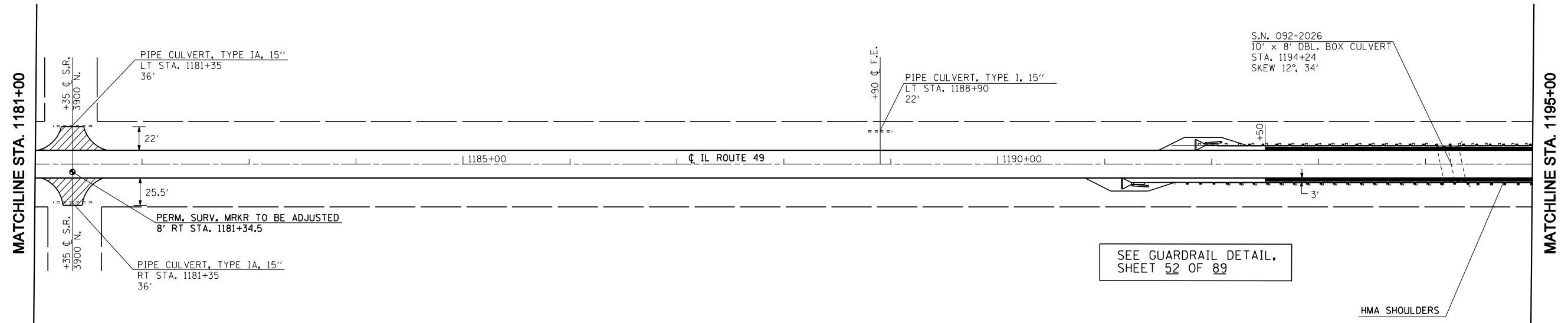
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING / PROPOSED  
 PLAN SHEETS**  
**STA. 1153+00 - 1181+00**  
 SCALE: VERT. \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

PLOT DATE = 11/15/2007  
 FILE NAME = c:\projects\4595800\1\8\view.planshts.dgn  
 PLOT SCALE = 1/8" = 100' / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	34
STA. 1181+00		TO STA. 1209+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC. 23, T 23 N, R 14 W

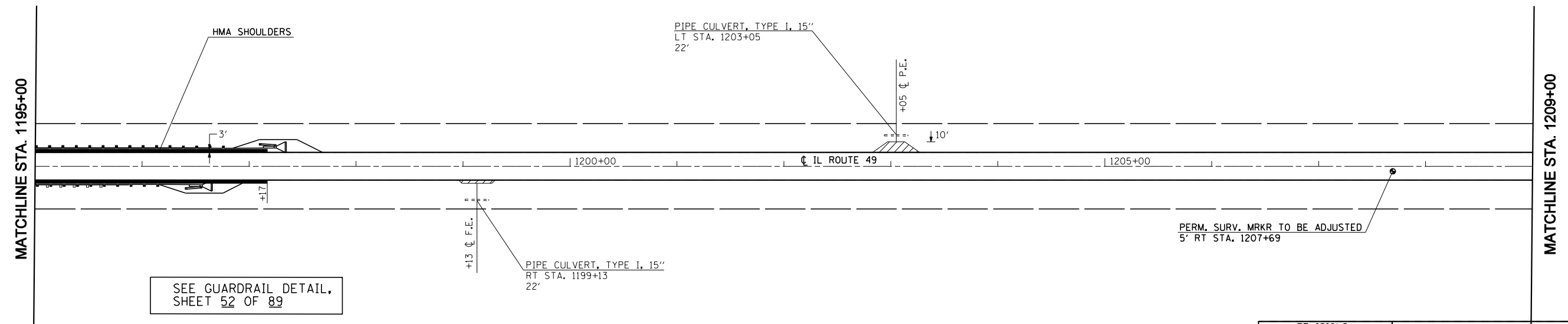


SEE GUARDRAIL DETAIL,  
SHEET 52 OF 89

- HMA SHOULDERS
- INCIDENTAL HMA RESURFACING

SEC. 24, T 23 N, R 14 W

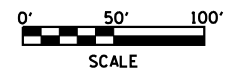
SEC. 23, T 23 N, R 14 W



SEE GUARDRAIL DETAIL,  
SHEET 52 OF 89

- HMA SHOULDERS
- INCIDENTAL HMA RESURFACING

SEC. 24, T 23 N, R 14 W



REVISIONS	
NAME	DATE

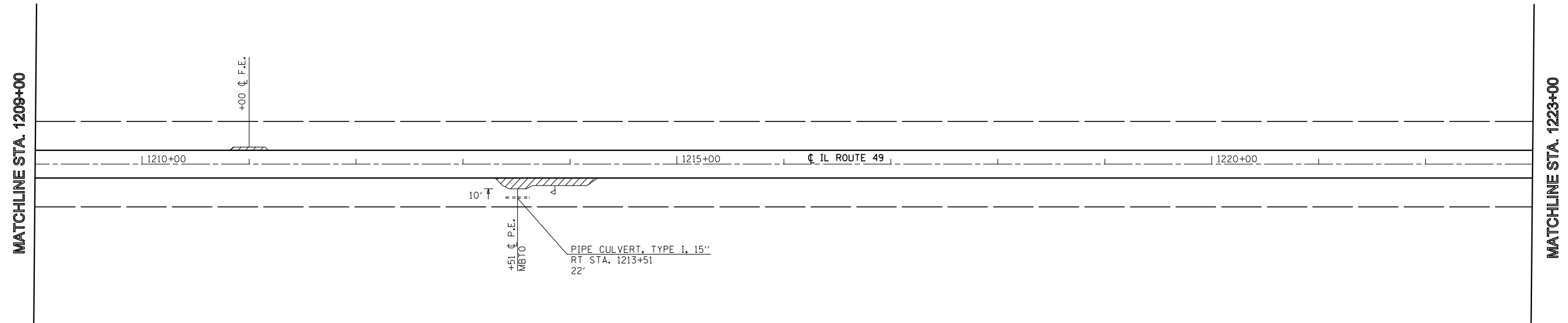
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 1181+00 - 1209+00**

SCALE: VERT. / HORIZ.  
DATE: / / DRAWN BY: / CHECKED BY: /

PLOT DATE = 11/15/2007  
FILE NAME = c:\projects\45955800 (v8)\rev.plansheets.dgn  
PLOT SCALE = 1/8" = 100' / IN.  
USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
.840	(121,122)RS-3	_VERMILION_	.89	_35_
STA. 1209+00		TO STA. 1237+00		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		

SEC. 23, T 23 N, R 14 W



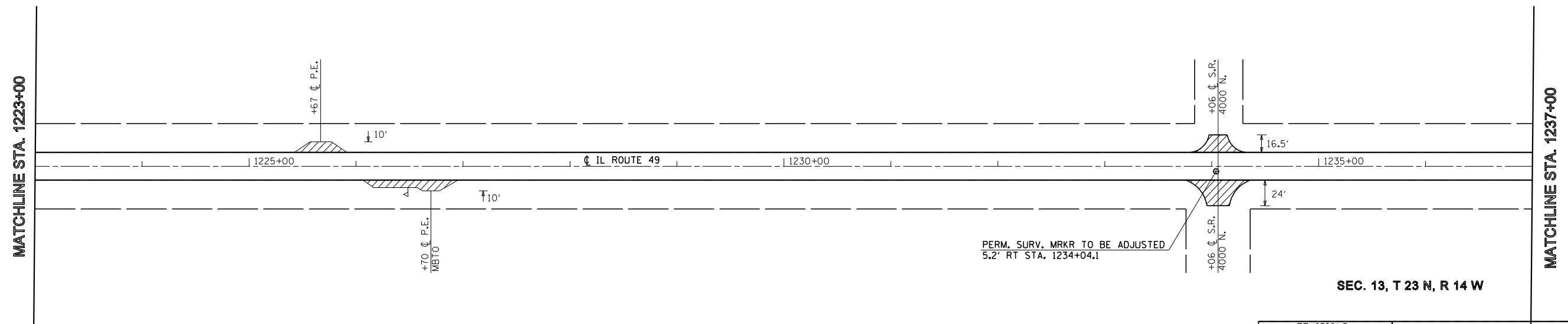
INCIDENTAL HMA RESURFACING

SEC. 24, T 23 N, R 14 W

SEC. 23, T 23 N, R 14 W



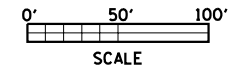
SEC. 14, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

SEC. 24, T 23 N, R 14 W

PERM. SURV. MRKR TO BE ADJUSTED  
5.2' RT STA. 1234+04.1



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING / PROPOSED  
PLAN SHEETS  
STA. 1209+00 - 1237+00

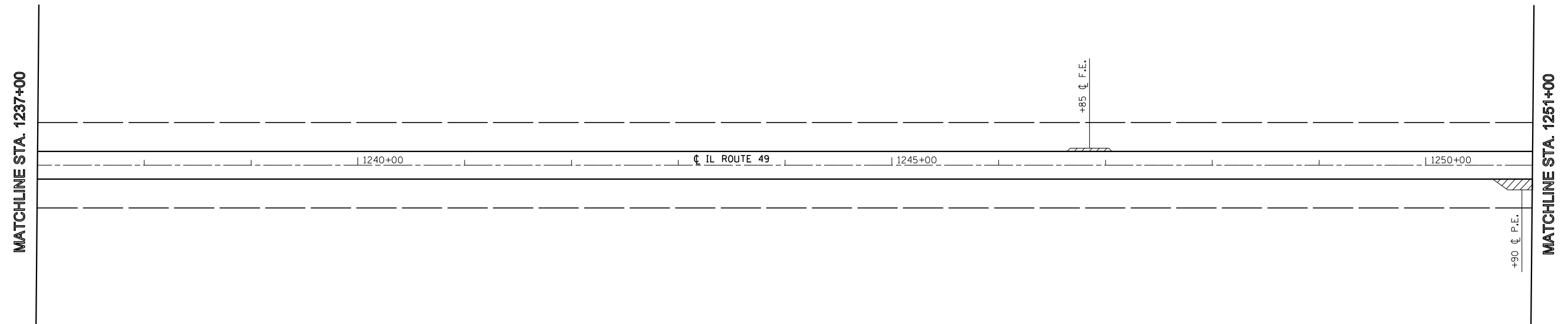
SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

PLOT DATE = 11/16/2007  
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PLOT SCALE = 1/8"=1'-0" / IN.  
USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
.840	(121,122)RS-3	VERMILION	.89	.36
STA. 1237+00		TO STA. 1265+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

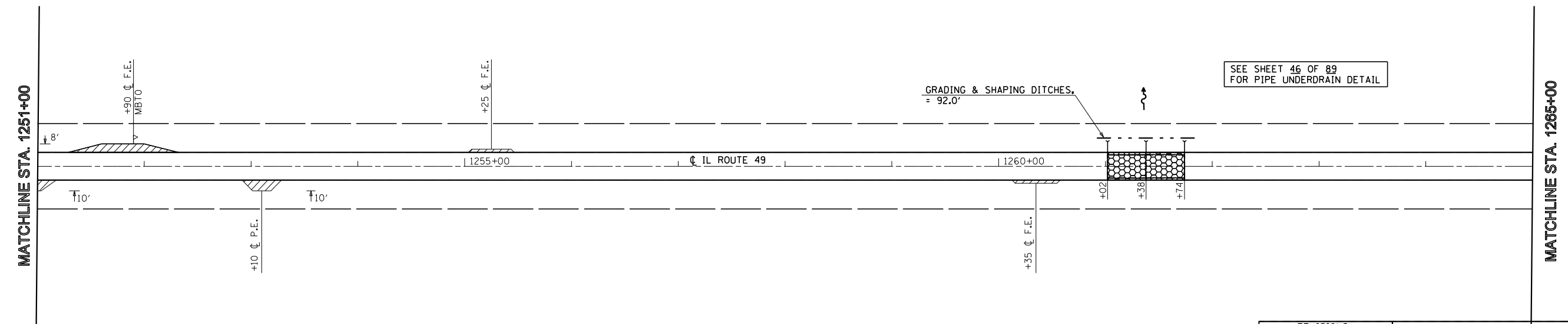
SEC. 14, T 23 N, R 14 W



INCIDENTAL HMA RESURFACING

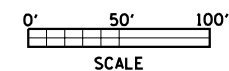
SEC. 13, T 23 N, R 14 W

SEC. 14, T 23 N, R 14 W



CLASS D PATCH, TYPE IV, 9"  
 INCIDENTAL HMA RESURFACING

SEC. 13, T 23 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING / PROPOSED  
 PLAN SHEETS  
 STA. 1237+00 - 1265+00

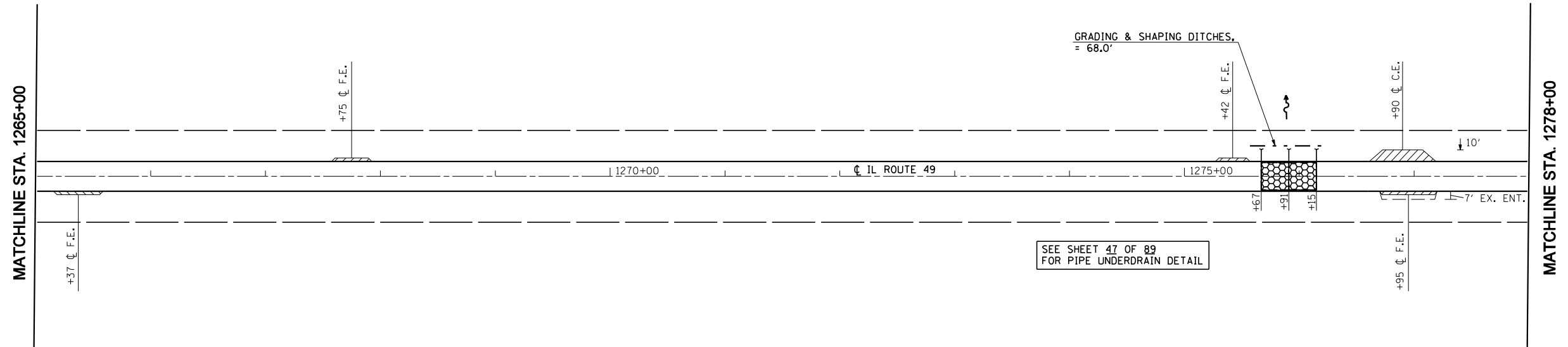
SCALE: VERT.  
 HORIZ.  
 DATE

DRAWN BY  
 CHECKED BY

PLOT DATE = 11/16/2007  
 FILE NAME = c:\projects\45955800 (v8)\rev.planshts.dgn  
 PLOT SCALE = 1/8" = 100' / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	37
STA. 1265+00		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC. 14, T 23 N, R 14 W



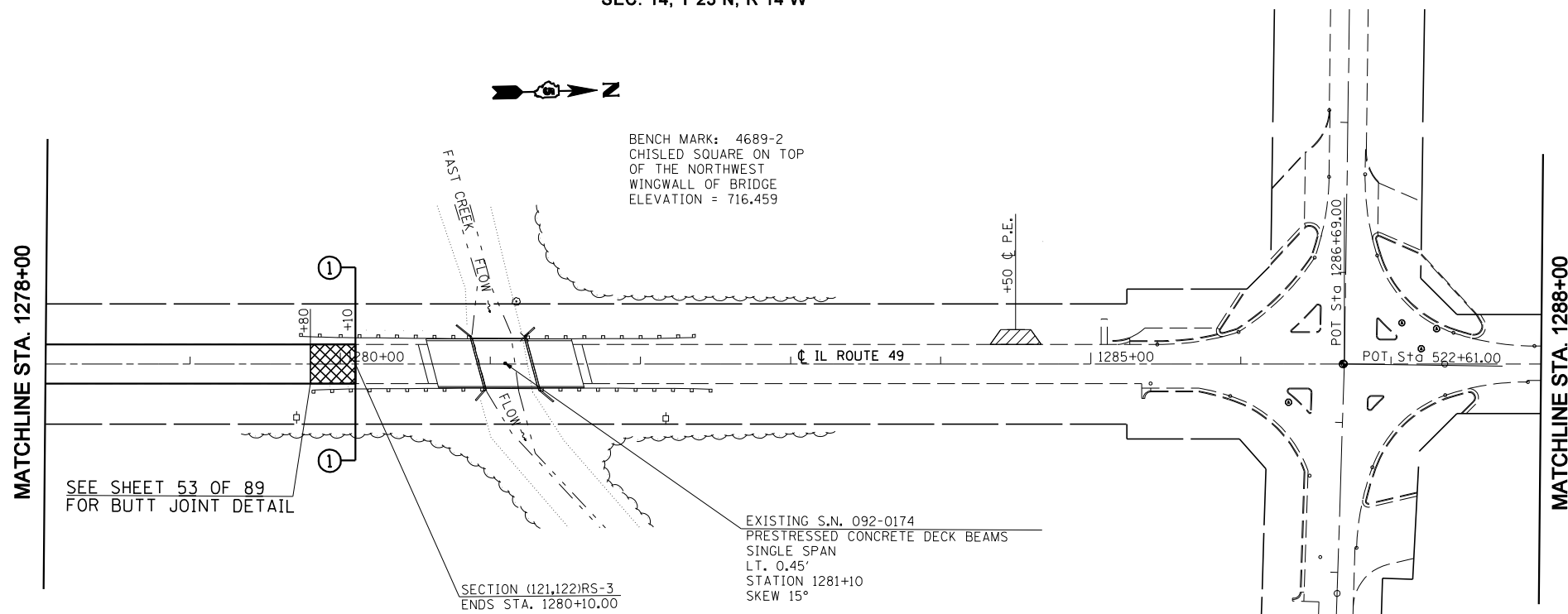
- CLASS D PATCH, TYPE IV, 9"
- INCIDENTAL HMA RESURFACING

SEC. 13, T 23 N, R 14 W

SEC. 14, T 23 N, R 14 W

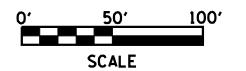


BENCH MARK: 4689-2  
CHISLED SQUARE ON TOP  
OF THE NORTHWEST  
WINGWALL OF BRIDGE  
ELEVATION = 716.459



- HMA SURFACE REMOVAL - BUTT JOINT
- INCIDENTAL HMA RESURFACING

SEC. 13, T 23 N, R 14 W



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING / PROPOSED  
PLAN SHEETS  
STA. 1265+00 - 1288+00**

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

PLOT DATE = 11/15/2007  
 FILE NAME = c:\projects\45955800 (v8)\rev.planshts.dgn  
 PLOT SCALE = 1/8"=1'-0"  
 USER NAME = collierb

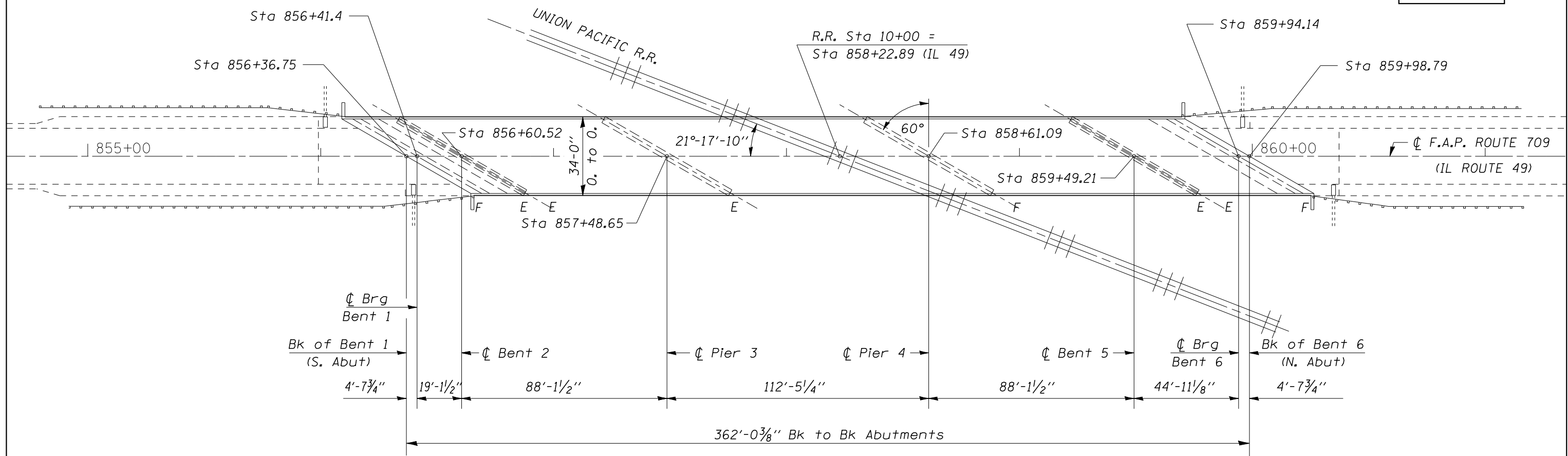
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	38
STA. 855+00		TO STA. 861+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# GENERAL PLAN

## S.N. 092-0101



SHEET 1 OF 7



PLAN VIEW  
S. N. 092-0101

### GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.

### TOTAL BILL OF MATERIALS

ITEM	UNITS	QTY.
POLYMER CONCRETE	CU FT	24.0
SILICONE JOINT SEALER 2"	FOOT	196.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL OR LESS THAN 5")	SQ FT	18.0
RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0
TRAFFIC CONTROL & PROTECTION, STANDARD 701201	L SUM	1.0
NEOPRENE EXPANSION JOINT, 4"	FOOT	66.0

SN 092-0101

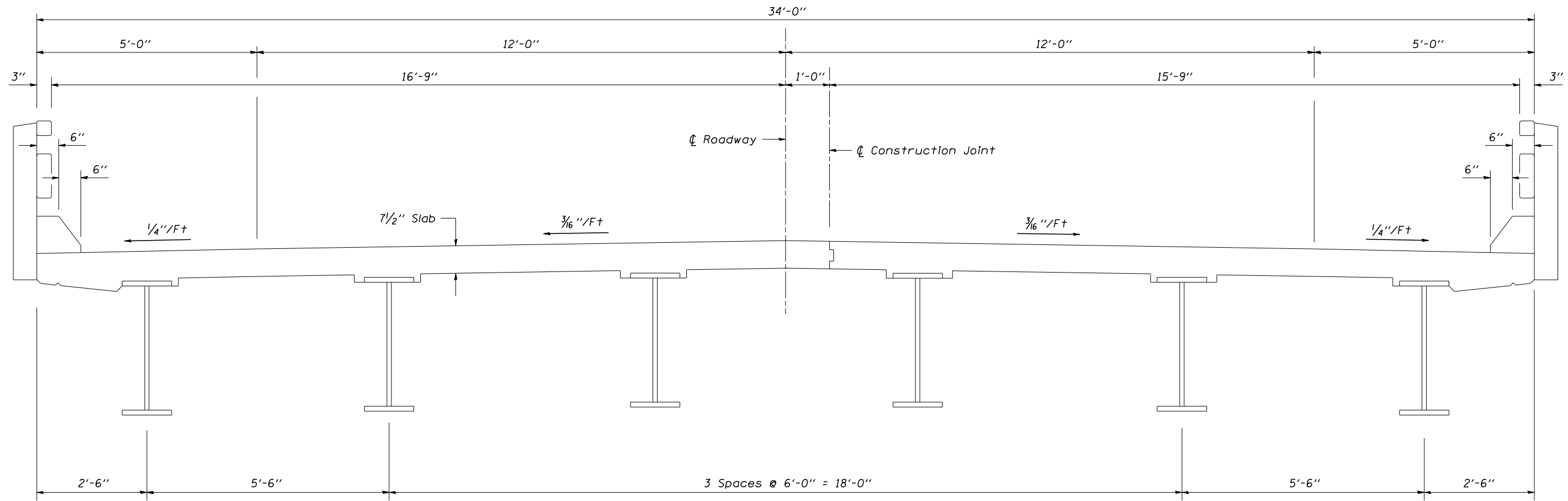
ILLINOIS DEPARTMENT OF TRANSPORTATION  
GENERAL PLAN  
F.A.P. ROUTE 840  
SECTION (121,122)RS-3  
VERMILION COUNTY  
SCALE: 1" = 20'  
DATE: 05-14-07  
DRAWN BY: JRP  
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	39
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# EXISTING TYPICAL CROSS SECTION

## S.N. 092-0101

SHEET 2 OF 7



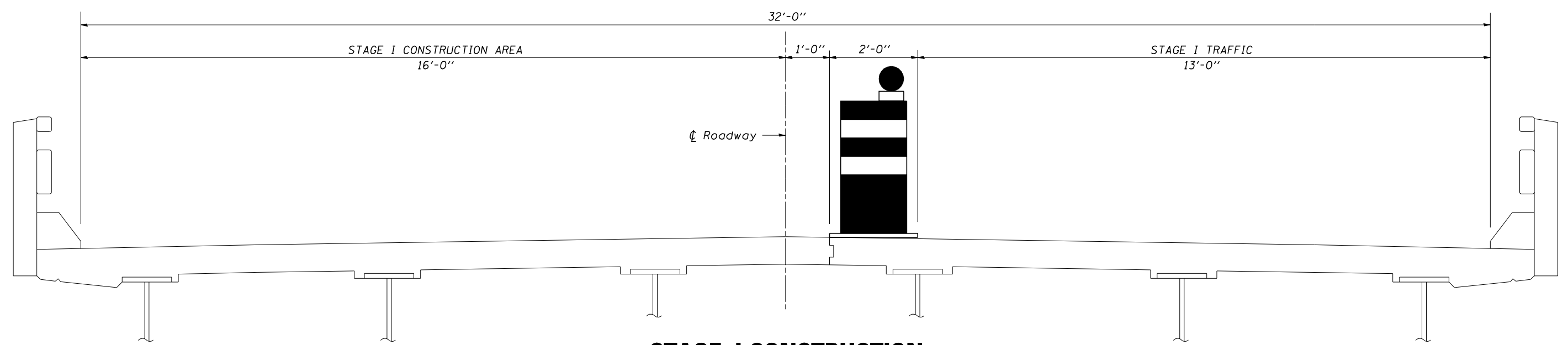
*SN 092-0101*

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING TYPICAL CROSS SECTION**  
 F.A.P. ROUTE 840  
 SECTION (121,122)RS-3  
 VERMILION COUNTY  
 SCALE: NA      DRAWN BY: JW/JRP  
 DATE: 05-15-07      CHECKED BY:

PLOT DATE = 11/16/2007  
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 PLOT SCALE = 42,352" / IN.  
 USER NAME = collierb

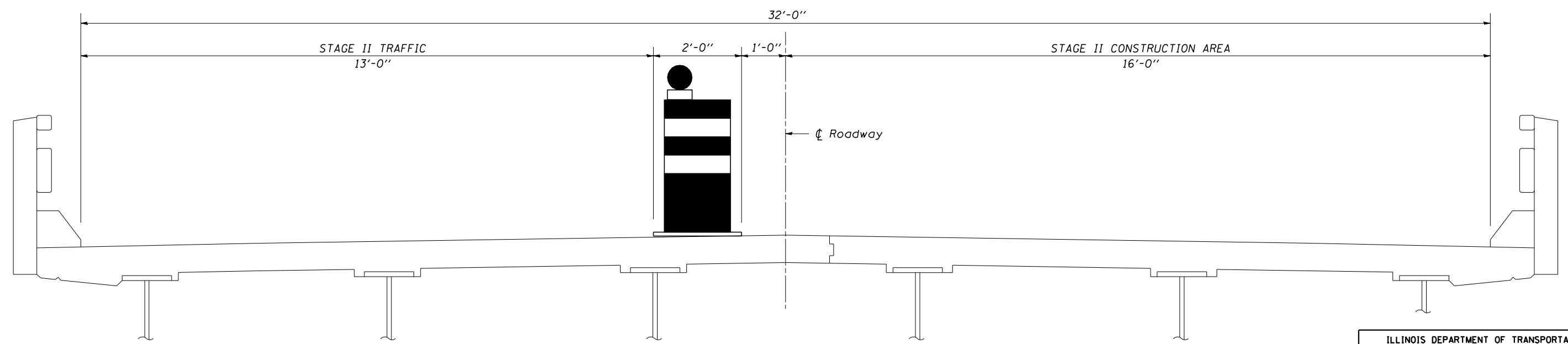
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	40
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**S.N. 092-0101**



**STAGE I CONSTRUCTION  
(LOOKING NORTH)**

**S.N. 092-0101**



**STAGE II CONSTRUCTION  
(LOOKING NORTH)**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
STAGE CONSTRUCTION DETAILS  
 F.A.P. ROUTE 840  
 SECTION (121,122)RS-3  
 VERMILION COUNTY  
 SCALE: NA DRAWN BY: JW/JRP  
 DATE: 05-17-07 CHECKED BY:

PLOT DATE : 11/16/2007  
 FILE NAME : c:\projects\4595580 (v8)\70128b-1.dgn  
 PLOT SCALE : 42,352% / IN.  
 USER NAME : collierb

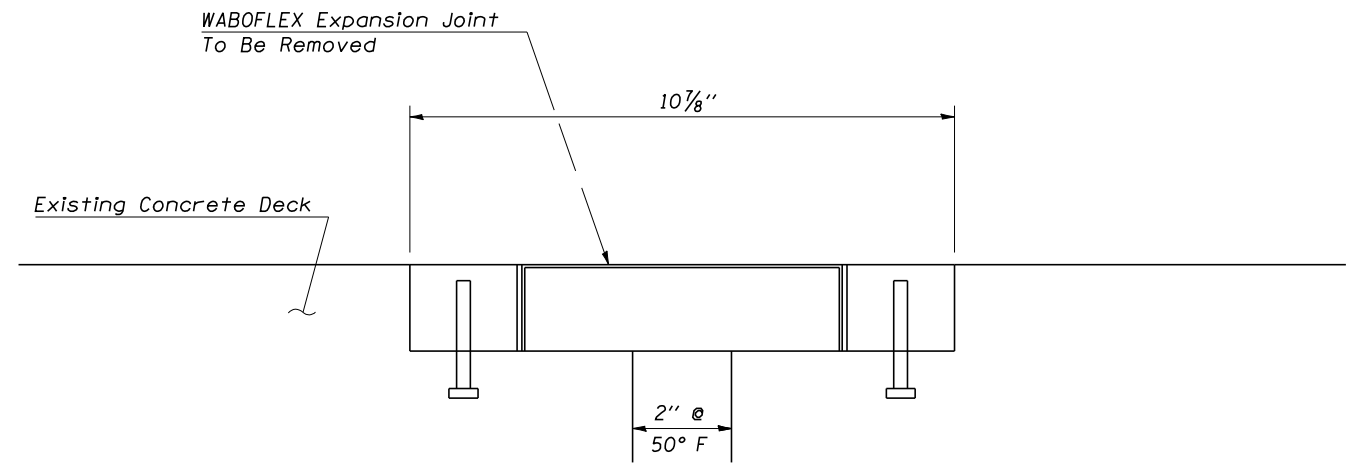
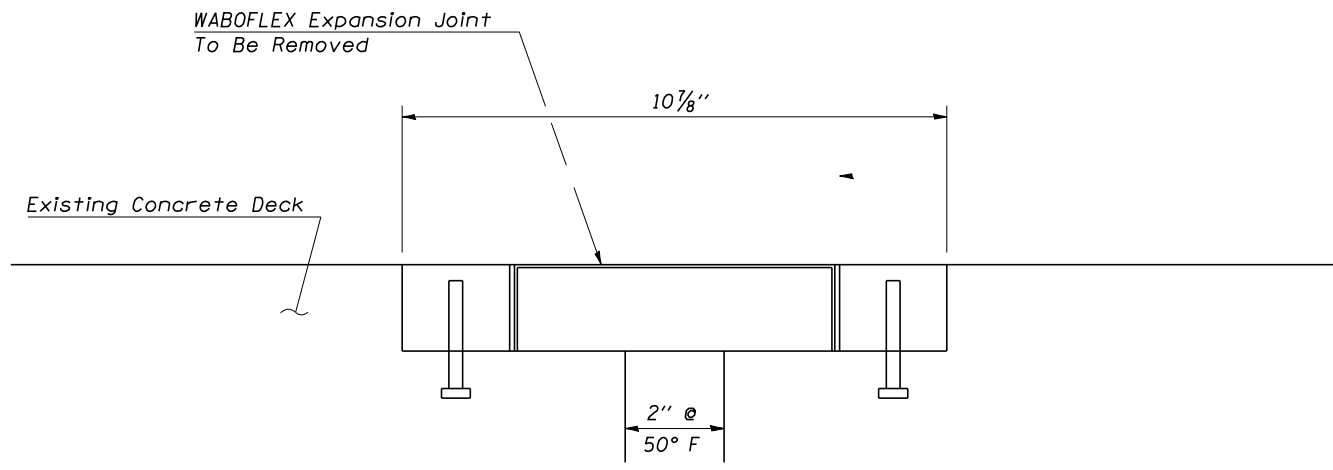


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	41
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# NORTH & SOUTH ABUTMENT JOINT DETAILS

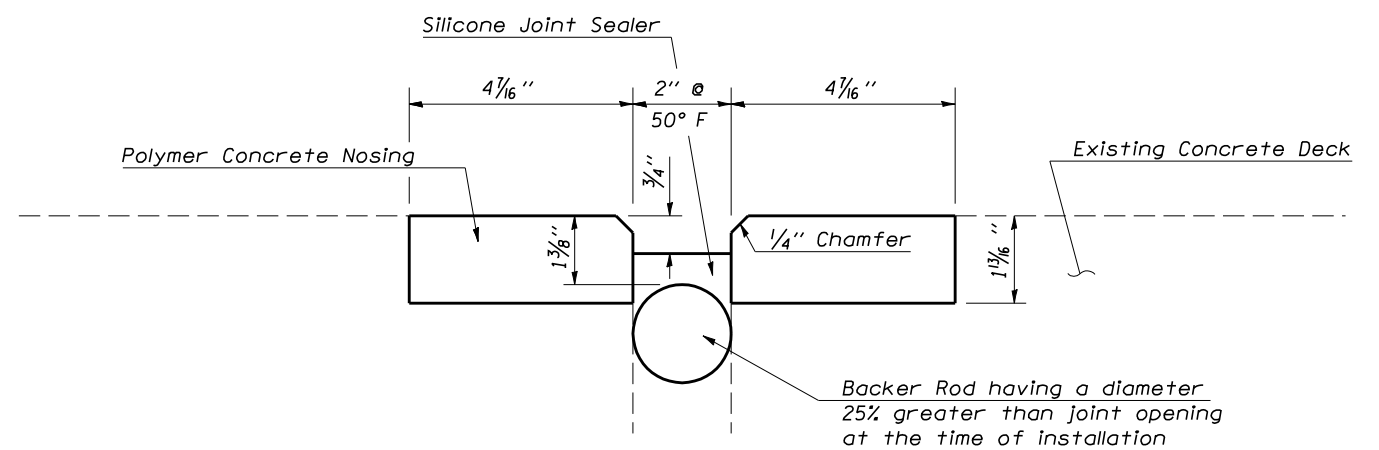
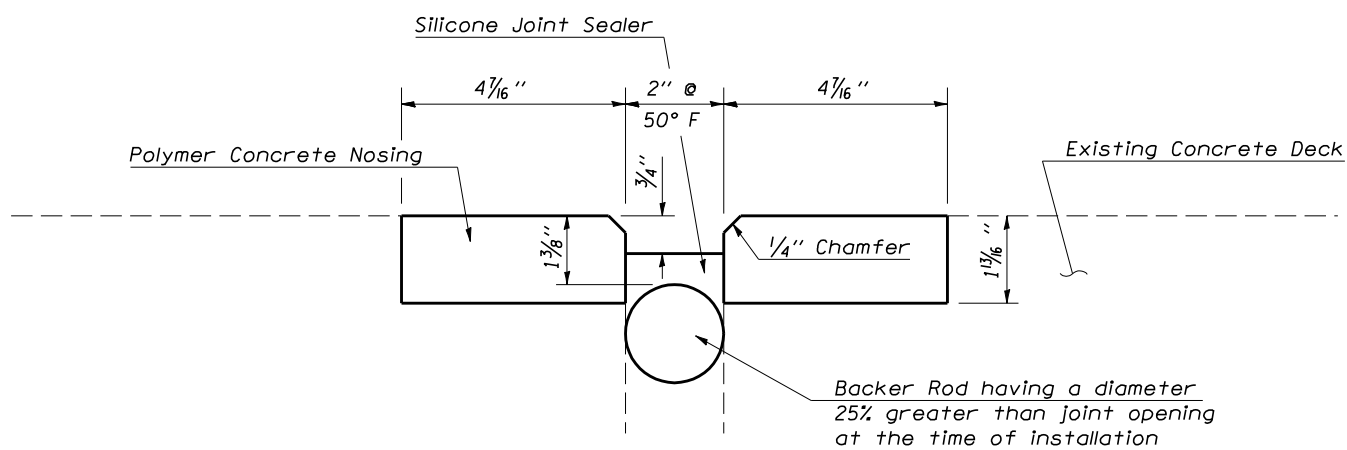
# BENT 5 EXPANSION JOINT DETAILS

SHEET 4 OF 7



EXISTING JOINT

EXISTING JOINT



PROPOSED JOINT

PROPOSED JOINT

**NOTES:**

REMOVE EXISTING WABOFLEX EXPANSION JOINT LEAVING EXISTING STUDS. REPLACE WITH SILICONE JOINT SEALER AND POLYMER CONCRETE.

REMOVAL OF THE EXISTING RUBBER BLOCKS AND NEOPRENE MEMBRANE IS INCLUDED IN THE COST OF POLYMER CONCRETE.

THE REMOVAL OF THE EXPANSION JOINT AND REPLACEMENT OF SILICONE JOINT SEALER AND POLYMER CONCRETE MUST BE COMPLETED IN THE SAME WORK DAY.

**NOTES:**

REMOVE EXISTING WABOFLEX EXPANSION JOINT LEAVING EXISTING STUDS. REPLACE WITH SILICONE JOINT SEALER AND POLYMER CONCRETE.

REMOVAL OF THE EXISTING RUBBER BLOCKS AND NEOPRENE MEMBRANE IS INCLUDED IN THE COST OF POLYMER CONCRETE.

THE REMOVAL OF THE EXPANSION JOINT AND REPLACEMENT OF SILICONE JOINT SEALER AND POLYMER CONCRETE MUST BE COMPLETED IN THE SAME WORK DAY.

SN 092-0101

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**JOINT DETAILS**  
F.A.P. ROUTE 840  
SECTION (121,122)RS-3  
VERMILION COUNTY

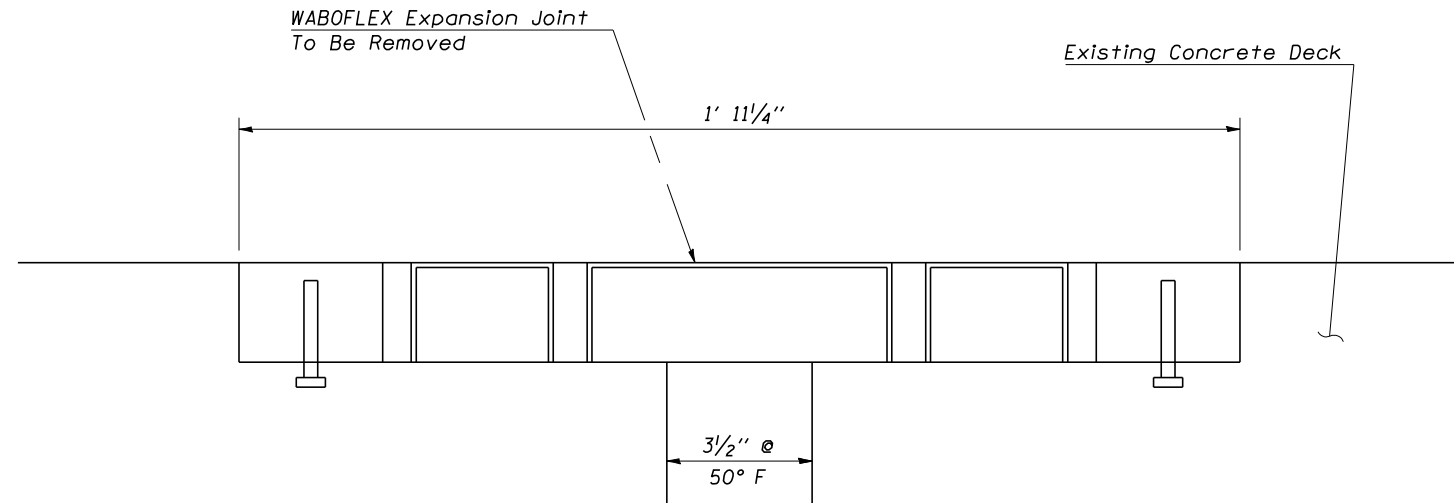
SCALE: NA DRAWN BY: JW/JRP  
DATE: 05-17-07 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

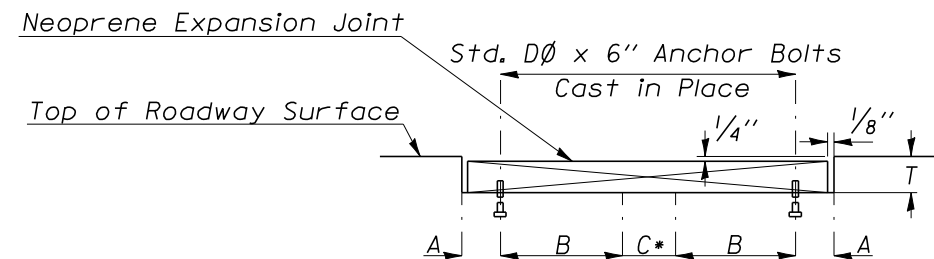
# BENT 2 EXPANSION JOINT DETAILS

# DETAIL OF END SEAL TREATMENT

SHEET 5 OF 7



EXISTING JOINT



CROSS SECTION

\* @ 50° F.

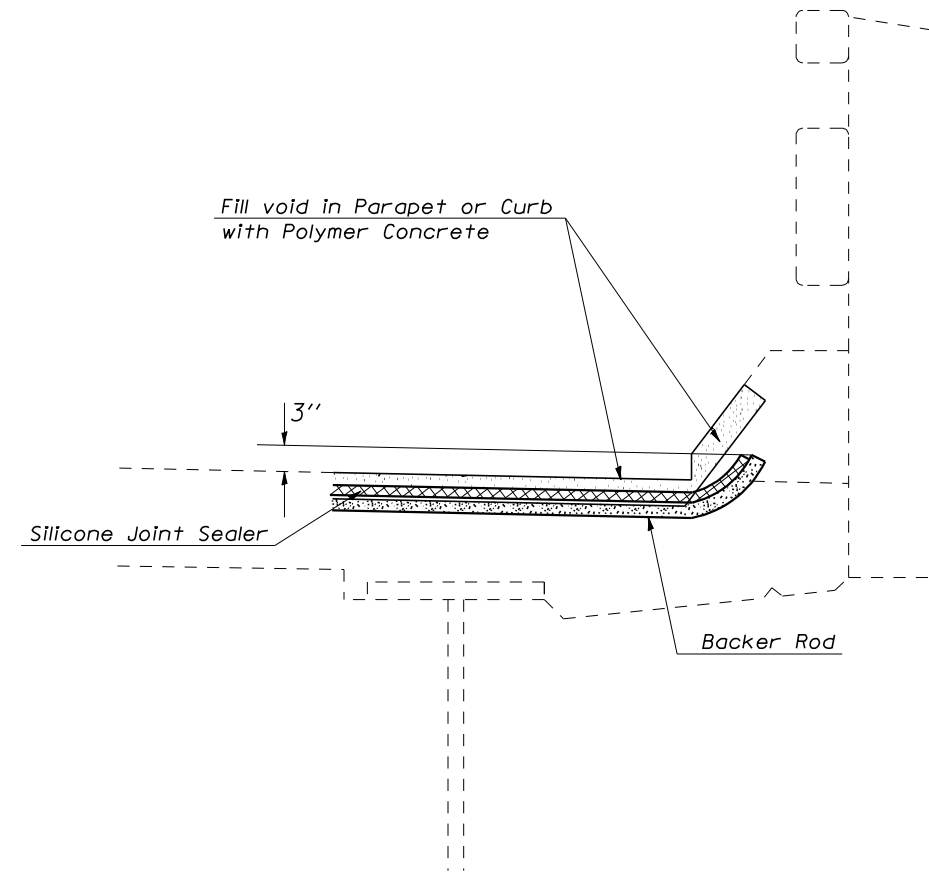
Dimensions are at right angles

NEOPRENE EXPANSION JOINTS (See Special Provisions)						
SUPPLIER	4" JOINT (BENT 2)					
	MODEL	A	B	C	D	T
GENERAL TIRE COMPANY	TRANSFLEX 400-A	1 15/16"	7 15/16"	3 1/2"	3/4"	2 3/8"
WATSON BOWMAN ACME	WABOFLEX SR-4A	1 15/16"	7 15/16"	3 1/2"	3/4"	2 3/8"

PROPOSED JOINT

NOTES:

EXISTING ANCHOR BOLTS WILL BE GROUND FLUSH TO EXISTING CONCRETE. NEW ANCHOR BOLTS WILL BE STAGGERED TO MISS EXISTING ANCHOR BOLTS.



SN 092-0101

ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT DETAILS

F.A.P. ROUTE 840  
SECTION (121,122)RS-3  
VERMILION COUNTY

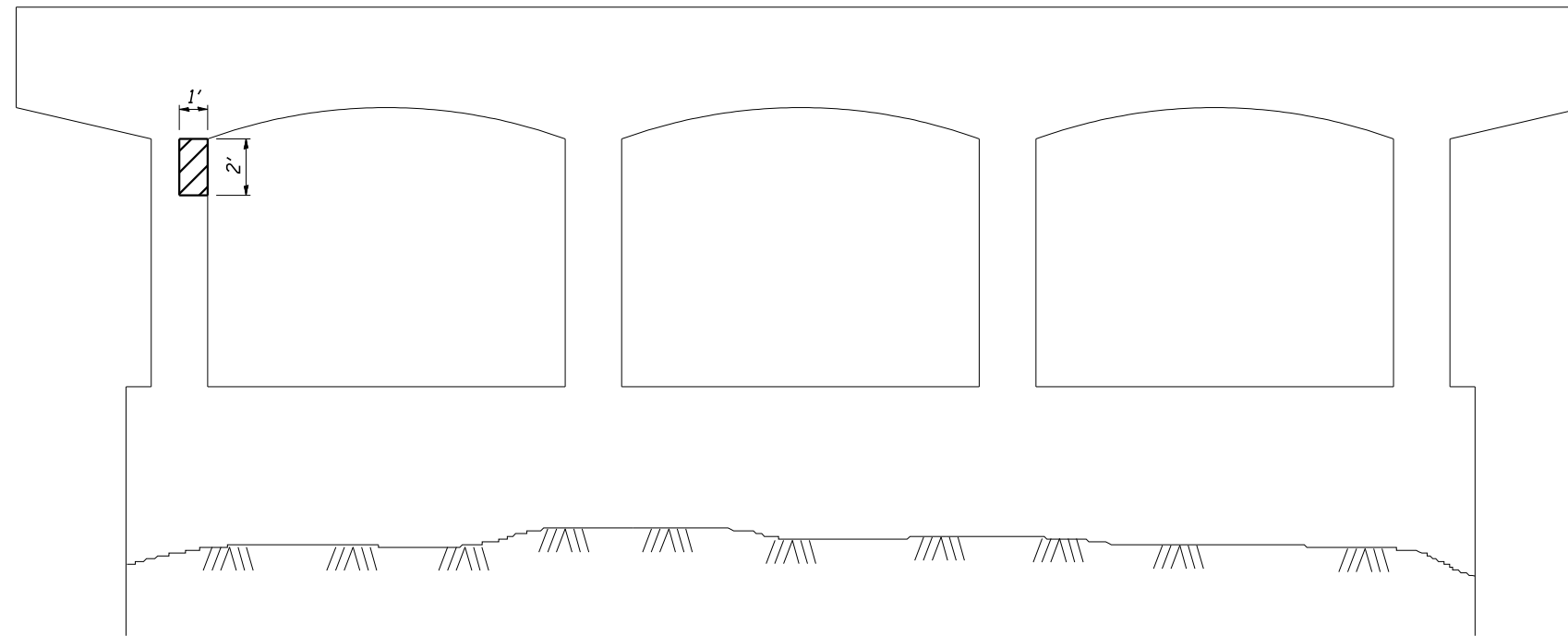
SCALE: NA  
DATE: 05-17-07

DRAWN BY: JW/JRP  
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	43
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

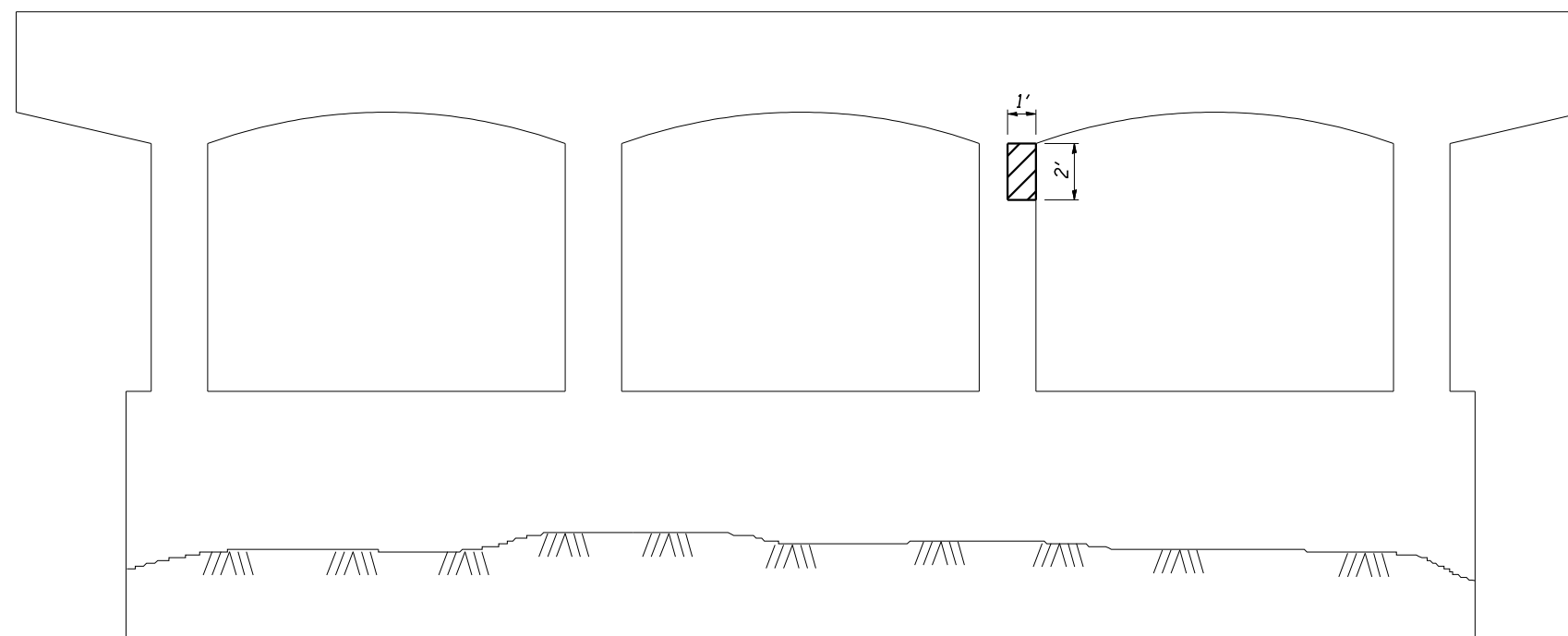
## STRUCTURAL REPAIR OF CONCRETE NORTH FACE OF PIER 3 S.N. 092-0101

SHEET 6 OF 7



*Note:*  
See Special Provision for  
Structural Repair of Concrete.

## STRUCTURAL REPAIR OF CONCRETE SOUTH FACE OF PIER 3 S.N. 092-0101



*SN 092-0101*

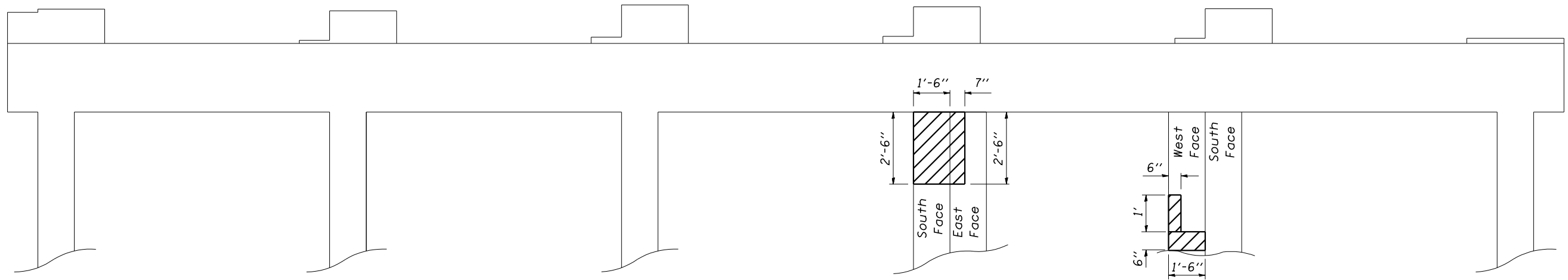
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STRUCTURAL REPAIR OF CONCRETE**  
**PIER 3**  
F.A.P. ROUTE 840  
SECTION (121,122)RS-3  
VERMILION COUNTY  
SCALE: NA      DRAWN BY: JW/JRP  
DATE: 05-15-07      CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	44
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# STRUCTURAL REPAIR OF CONCRETE SOUTH FACE OF BENT 5

## S.N. 092-0101

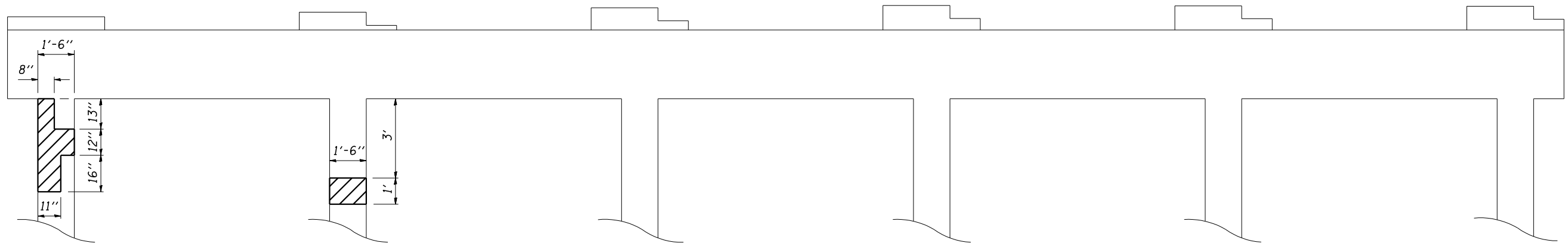
SHEET 7 OF 7



# STRUCTURAL REPAIR OF CONCRETE NORTH FACE OF BENT 5

## S.N. 092-0101

*Note:*  
See Special Provision for  
Structural Repair of Concrete.



*SN 092-0101*

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STRUCTURAL REPAIR OF CONCRETE**  
**BENT 5**

F.A.P. ROUTE 840  
SECTION (121,122)RS-3  
VERMILION COUNTY

SCALE: NA      DRAWN BY: JW/JRP  
DATE: 05-15-07      CHECKED BY:

PLOT DATE : 11/16/2007  
 FILE NAME : c:\projects\45955800 (v8)\70128b-1.dgn  
 PLOT SCALE : 4.23524 / IN.  
 USER NAME : collierb

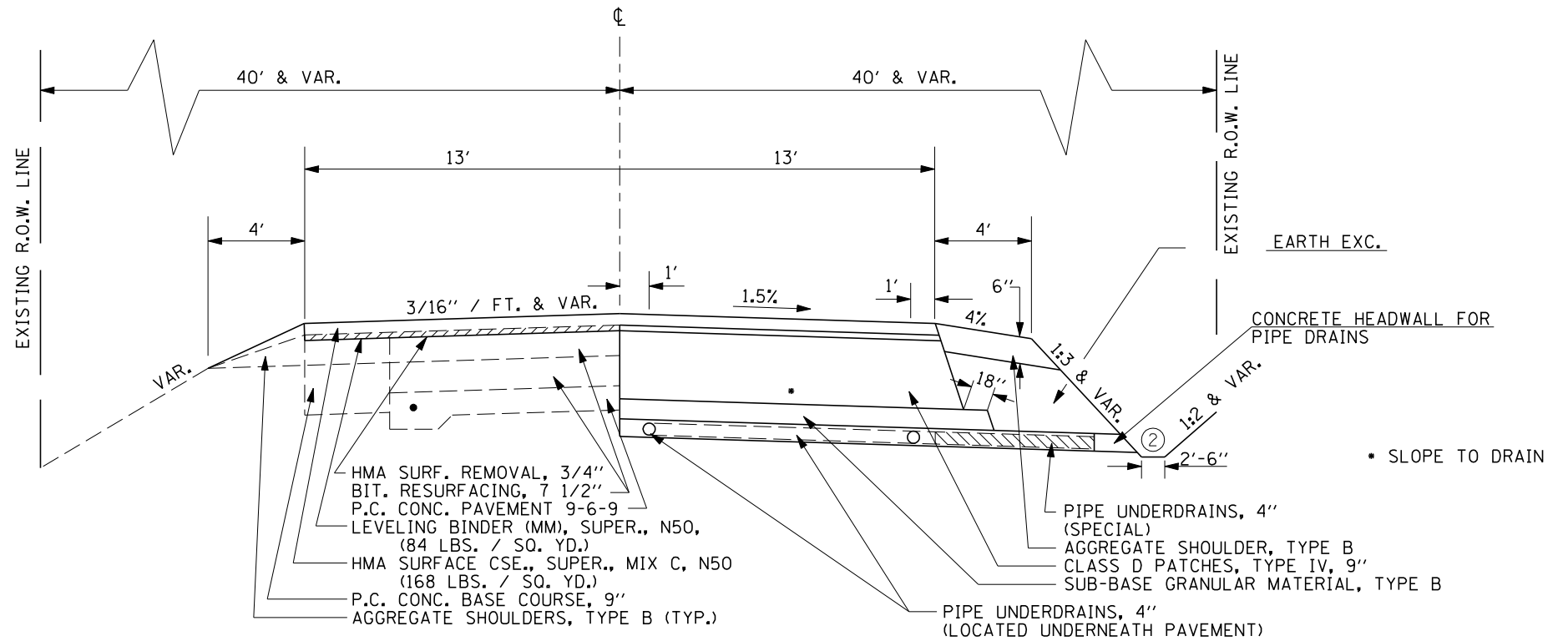
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	45
STA. 1013+00		TO STA. 1041+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

**DETAIL NOTE:**

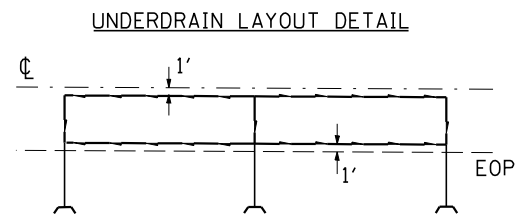
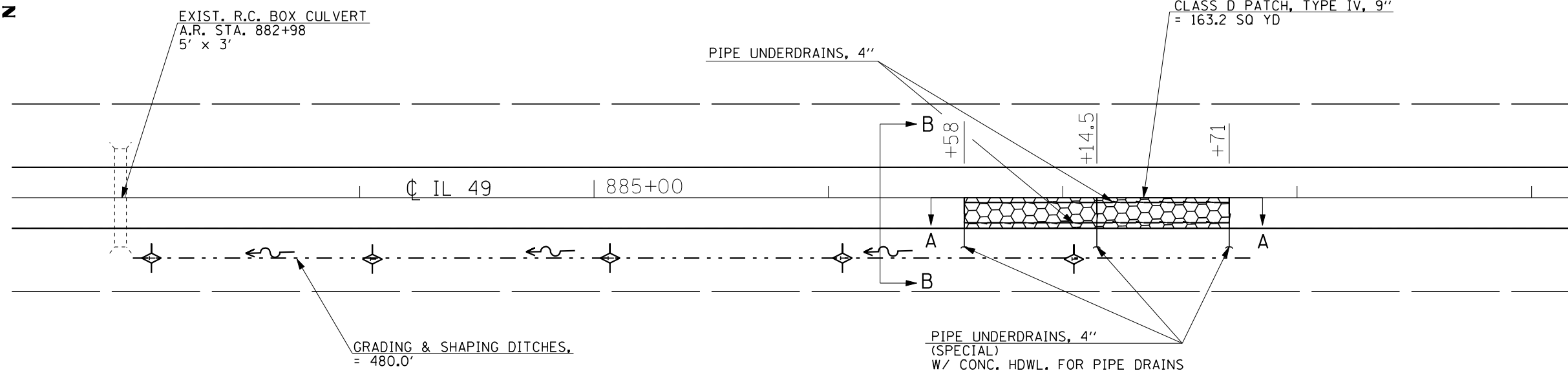
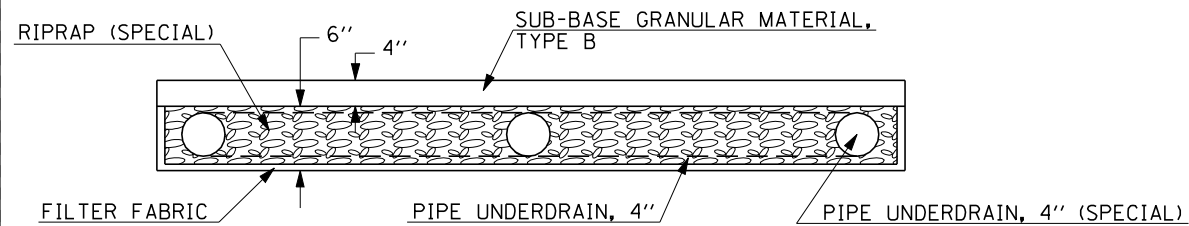
- ① ALL ELBOWS, TEES AND CONNECTIONS SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAIN, 4".
- ② PIPE UNDERDRAINS, 4" (SPECIAL) W/ CONCRETE HEADWALLS @ EACH END & CENTER; DRAIN FROM LOCATIONS SHOWN UNDER PAVEMENT TO DITCH #; CLEAN DITCH FROM PATCH LOCATION TO BOX CULVERT (SOUTH); IF FIELD TILE EXISTS, UNDERDRAINS MAY BE CONNECTED TO THE EXISTING TILE..
- ③ IT IS THE ENGINEER'S RESPONSIBILITY TO CHECK EXISTING DITCH GRADES TO CORRESPOND WITH THE PLACEMENT OF THE PIPE UNDERDRAINS TO ENSURE PROPER DRAINAGE.
- ④ ALL STATIONS, OFFSETS AND GRADES SHALL BE CHECKED BY THE ENGINEER IN THE FIELD PRIOR TO CONSTRUCTION. ANY VARIATIONS OCCURRING BETWEEN THE PLANS AND EXISTING CONDITIONS SHALL BE CORRECTED IN THE FIELD AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ⑤ ALL AREAS DISTURBED DURING GRADING AND SHAPING DITCHES SHALL BE PREPARED ACCORDING TO SECTION 205 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR GRADING AND SHAPING DITCHES AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ⑥ RIPRAP, (SPECIAL) SIDES AND BOTTOM SHALL BE WRAPPED WITH FILTER FABRIC AS SHOWN IN THE DETAILS.

**SECTION B-B**

PROPOSED TYPICAL CROSS SECTION  
RT STA. 886+58 TO RT STA. 887+71



**SECTION A-A**



- CONCRETE HEADWALL FOR PIPE DRAINS
- TEMPORARY DITCH CHECKS
- CLASS D PATCHES, TYPE IV, 9 INCH & PAVEMENT REMOVAL (CONSISTING OF ONE 5" LIFT & ONE 4" LIFT HMA BINDER CSE., SUPER., MIX C, N 50)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PIPE UNDERDRAIN  
DETAIL**

**STA. 886+58 - 887+71**

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

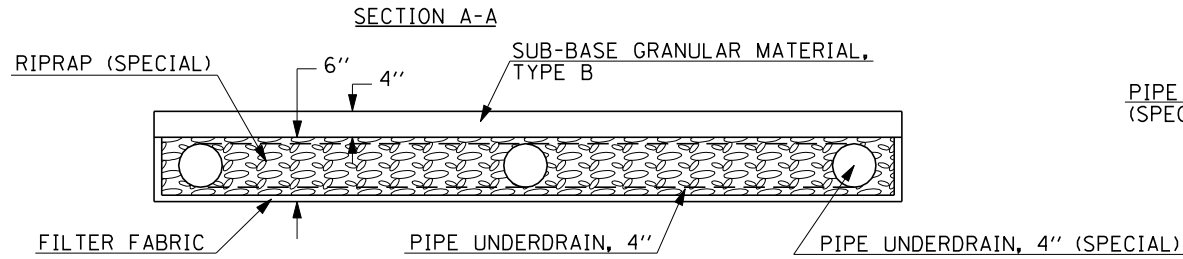
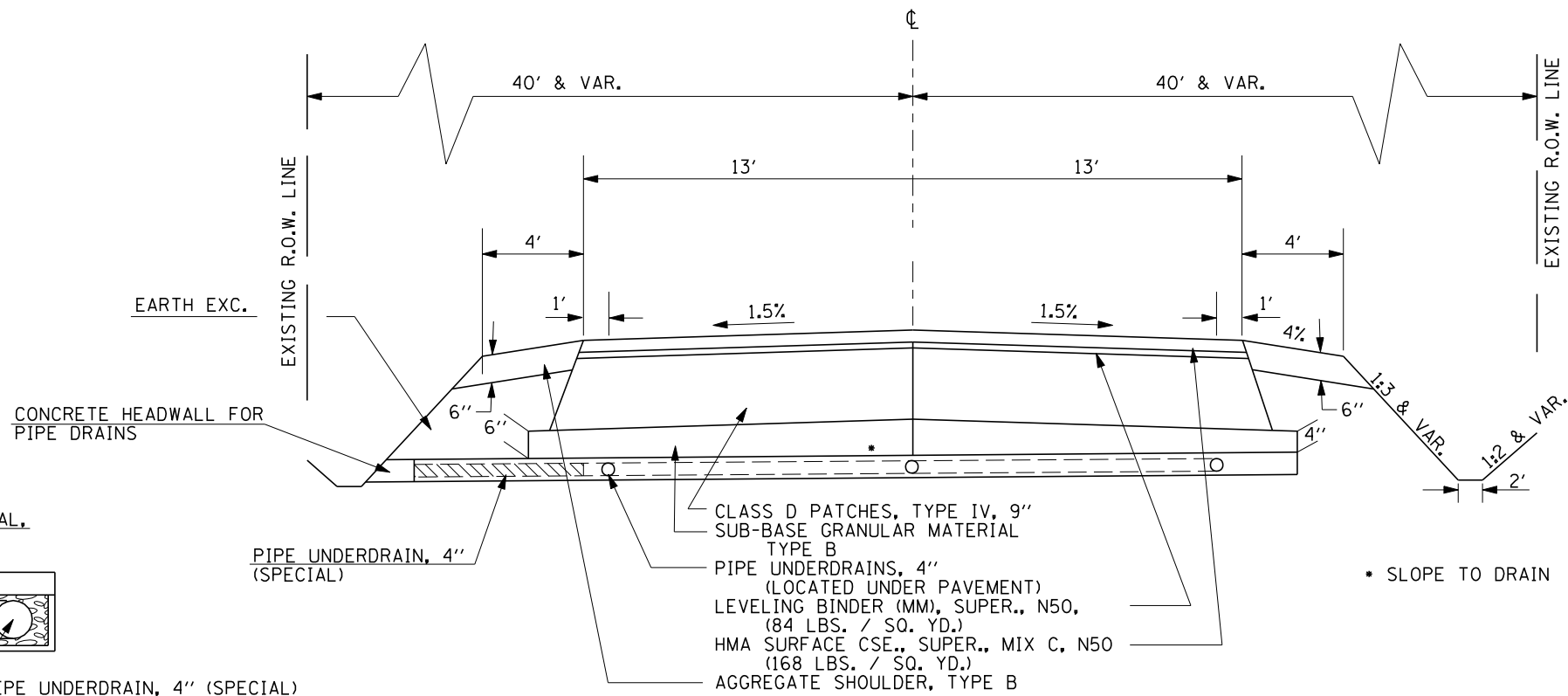
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 FILE NAME = c:\projects\0595800 (v8)\rev.plamhats.dgn  
 PLOT SCALE = 1/8"=1'-0"  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	46
STA. 1013+00		TO STA. 1041+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

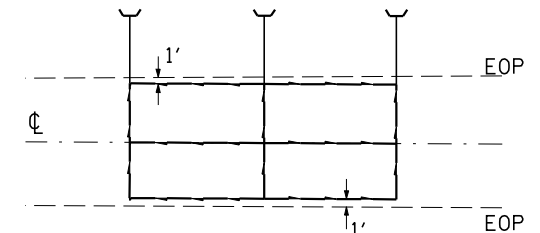
**DETAIL NOTE:**

- ① ALL ELBOWS, TEES AND CONNECTIONS SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAIN, 4".
- ② PIPE UNDERDRAINS, 4" (SPECIAL) W/ CONCRETE HEADWALLS @ EACH END & CENTER; DRAIN FROM LOCATIONS SHOWN UNDER PAVEMENT TO DITCH; CLEAN DITCH FROM PATCH LOCATION TO BOX CULVERT (SOUTH); IF FIELD TILE EXISTS, UNDERDRAINS MAY BE CONNECTED TO THE EXISTING TILE..
- ③ IT IS THE ENGINEER'S RESPONSIBILITY TO CHECK EXISTING DITCH GRADES TO CORRESPOND WITH THE PLACEMENT OF THE PIPE UNDERDRAINS TO ENSURE PROPER DRAINAGE.
- ④ ALL STATIONS, OFFSETS AND GRADES SHALL BE CHECKED BY THE ENGINEER IN THE FIELD PRIOR TO CONSTRUCTION. ANY VARIATIONS OCCURRING BETWEEN THE PLANS AND EXISTING CONDITIONS SHALL BE CORRECTED IN THE FIELD AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ⑤ ALL AREAS DISTURBED DURING GRADING AND SHAPING DITCHES SHALL BE PREPARED ACCORDING TO SECTION 205 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR GRADING AND SHAPING DITCHES AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ⑥ RIPRAP, (SPECIAL) SIDES AND BOTTOM SHALL BE WRAPPED WITH FILTER FABRIC AS SHOWN IN THE DETAILS.

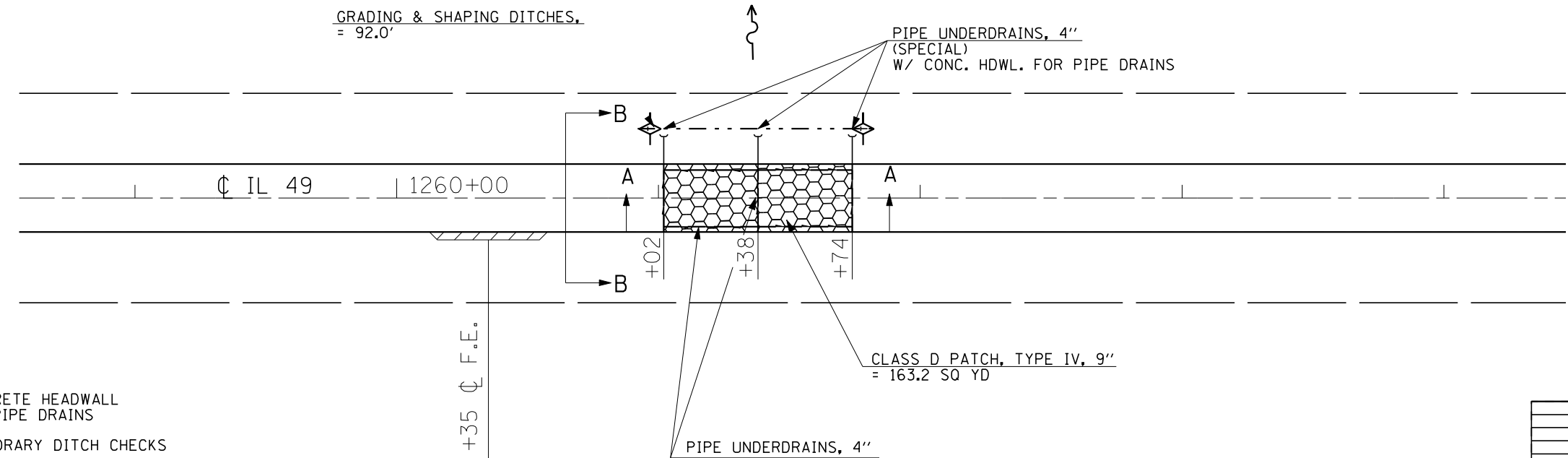
**SECTION B-B**  
PROPOSED TYPICAL CROSS SECTION  
STA. 1261+02 TO STA. 1261+74



**UNDERDRAIN LAYOUT DETAIL**



GRADING & SHAPING DITCHES,  
= 92.0'



- CONCRETE HEADWALL FOR PIPE DRAINS
- TEMPORARY DITCH CHECKS
- CLASS D PATCHES, TYPE IV, 9 INCH & PAVEMENT REMOVAL (CONSISTING OF ONE 5" LIFT & ONE 4" LIFT HMA BINDER CSE., SUPER., MIX C, N 50)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PIPE UNDERDRAIN  
DETAIL**  
**STA. 1261+02 - 1261+74**

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

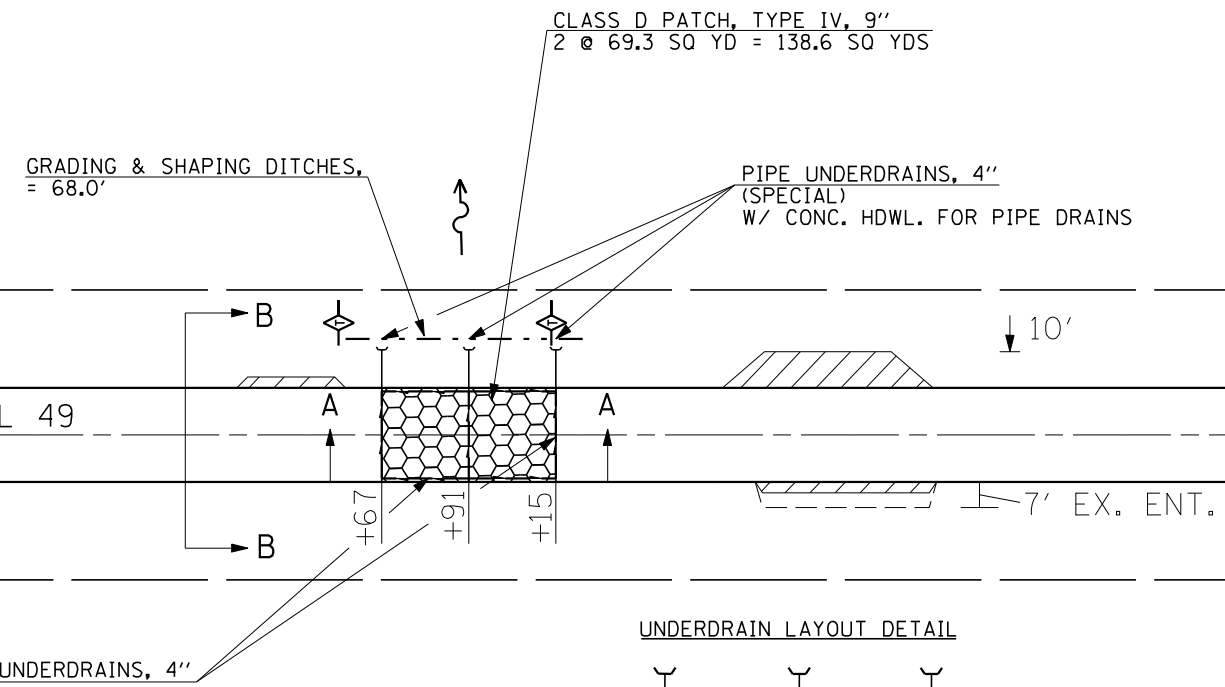
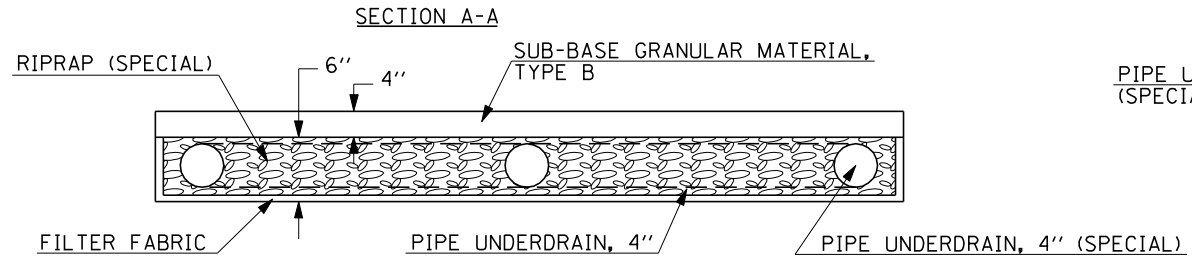
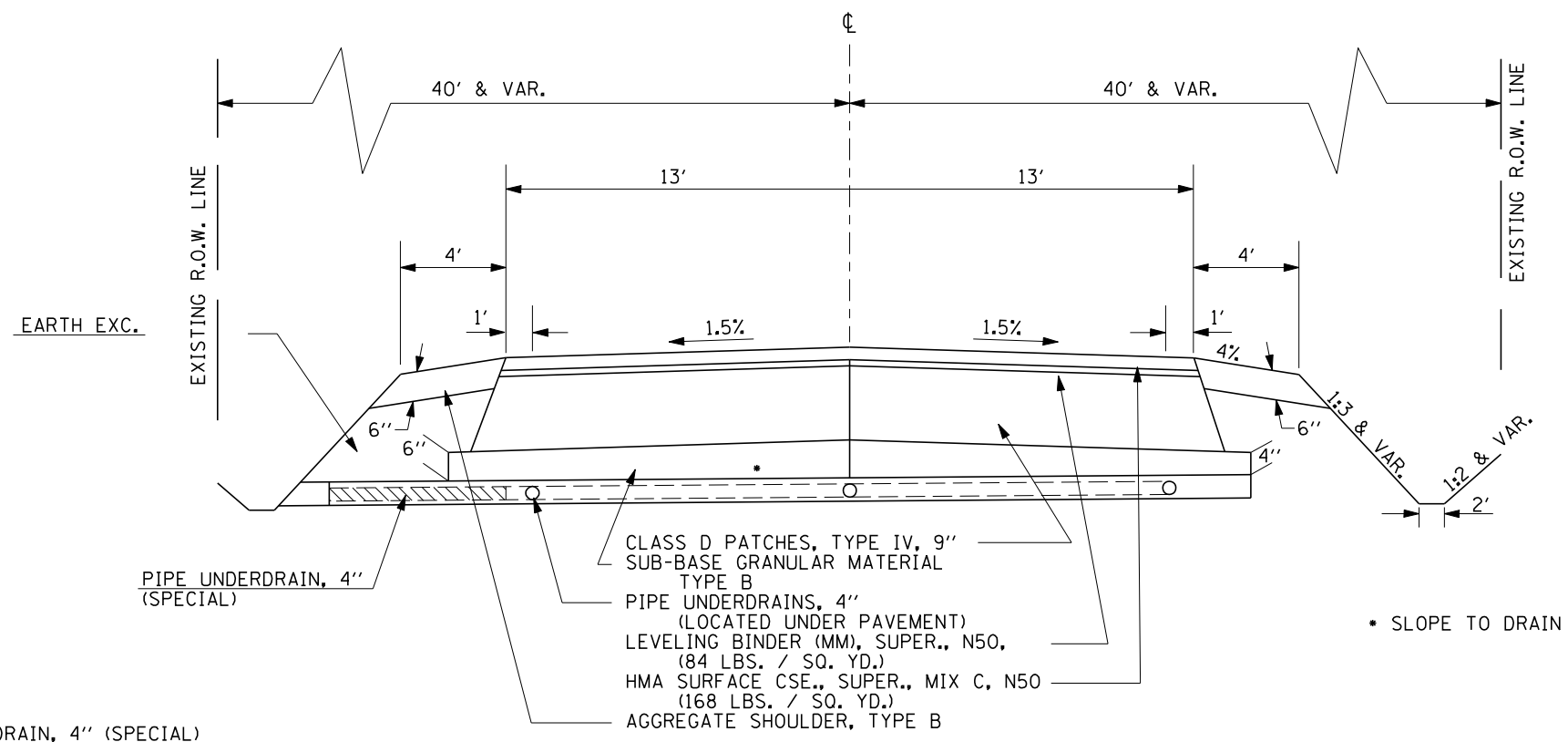
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 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	47
STA. 1013+00		TO STA. 1041+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

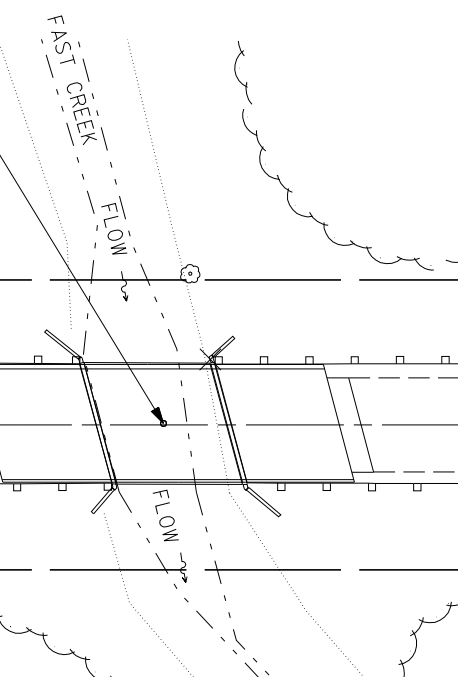
**DETAIL NOTE:**

- ① ALL ELBOWS, TEES AND CONNECTIONS SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAIN, 4".
- ② PIPE UNDERDRAINS, 4" (SPECIAL) W/ CONCRETE HEADWALLS @ EACH END & CENTER; DRAIN FROM LOCATIONS SHOWN UNDER PAVEMENT TO DITCH #; CLEAN DITCH FROM PATCH LOCATION TO BOX CULVERT (SOUTH); IF FIELD TILE EXISTS, UNDERDRAINS MAY BE CONNECTED TO THE EXISTING TILE..
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- ⑥ RIPRAP, (SPECIAL) SIDES AND BOTTOM SHALL BE WRAPPED WITH FILTER FABRIC AS SHOWN IN THE DETAILS.

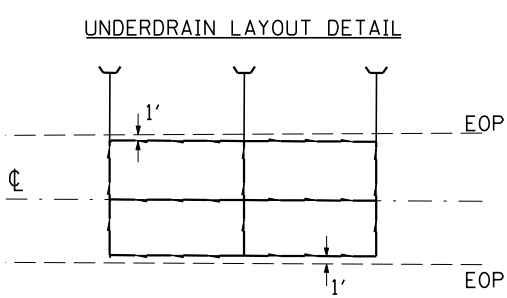
**SECTION B-B**  
PROPOSED TYPICAL CROSS SECTION  
STA. 1275+67 TO STA. 1276+15



EXISTING S.N. 092-0174  
PRESTRESSED CONCRETE DECK BEAMS  
SINGLE SPAN  
LT. 0.45'  
STATION 1281+10  
SKEW 15°



PLOT DATE = 11/16/2007  
FILE NAME = c:\projects\5955800 (v8)\rev.plamhaz.dgn  
PLOT SCALE = 1/8" = 1' IN.  
USER NAME = collierb



- CONCRETE HEADWALL FOR PIPE DRAINS
- TEMPORARY DITCH CHECKS
- CLASS D PATCHES, TYPE IV, 9 INCH & PAVEMENT REMOVAL  
(CONSISTING OF ONE 5" LIFT & ONE 4" LIFT HMA BINDER CSE., SUPER., MIX C, N 50)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

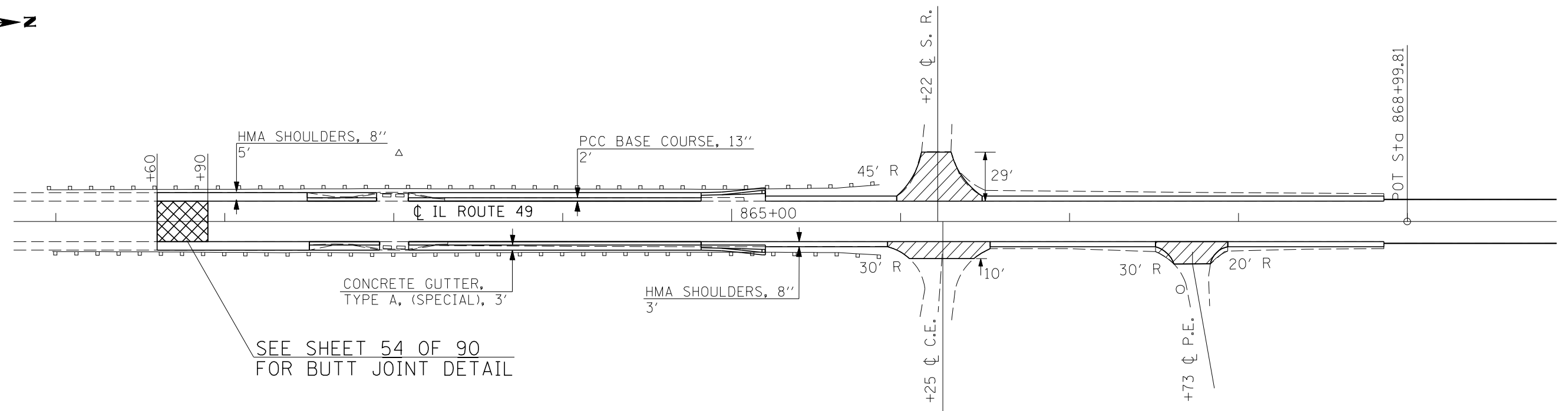
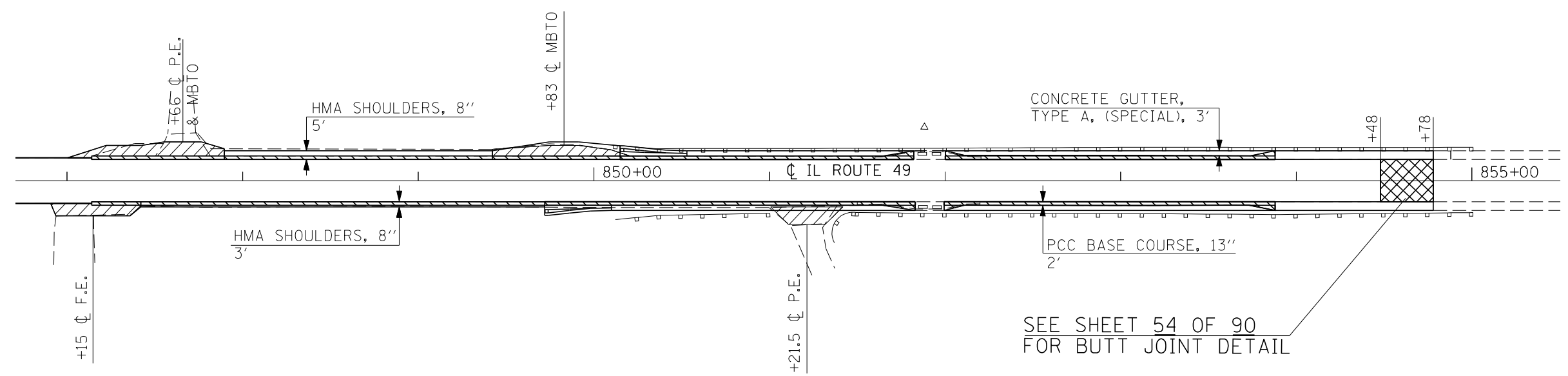
**PIPE UNDERDRAIN DETAIL**  
STA. 1275+67 - 1276+16

SCALE: VERT. 1" = 10'  
HORIZ. 1" = 20'

DATE: \_\_\_\_\_

DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	48
STA. 1041+00		TO STA. 1069+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- INCIDENTAL HMA SURFACE
- CONCRETE GUTTER REMOVAL
- HMA SURFACE REMOVAL - BUTT JOINT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SHOULDER DETAIL**

**@**

**S.N. 092-0101**

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

PLOT DATE = 11/15/2007  
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 USER NAME = collierb

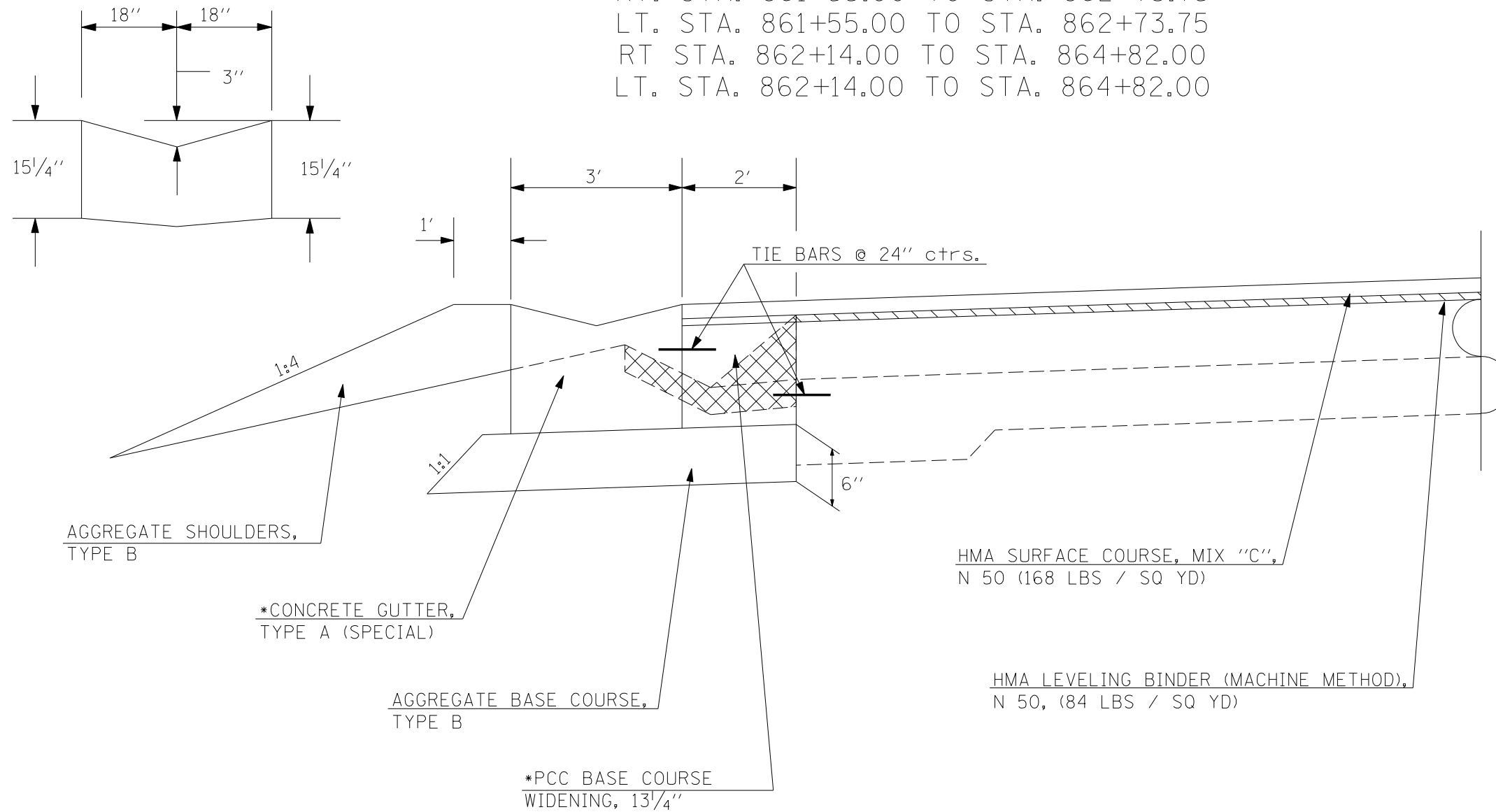


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	49
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### CONCRETE GUTTER RECONSTRUCTION DETAIL

#### CONCRETE GUTTER, TYPE A (SPECIAL)

RT. STA. 850+10 TO STA. 851+61.75  
 LT. STA. 850+10 TO STA. 851+61.75  
 RT. STA. 852+00.25 TO STA. 854+83  
 LT. STA. 852+00.25 TO STA. 854+83  
 RT. STA. 861+55.00 TO STA. 862+73.75  
 LT. STA. 861+55.00 TO STA. 862+73.75  
 RT. STA. 862+14.00 TO STA. 864+82.00  
 LT. STA. 862+14.00 TO STA. 864+82.00



#### DETAIL NOTES

- ① Tie Bars shall be No. 6 unless otherwise shown.
- ② Tie Bars shall not be paid for separately, but shall be considered incidental to the various pay items.
- ③ Aggregate Base Course, Type B shall not be paid for separately, but shall be considered incidental to the various pay items.
- ④ This work shall be paid for at the contract unit price per foot for Concrete Gutter, Type A (Special) and per SQ YD for PCC Base Course, 13" which price shall include all labor and materials as specified and no additional compensation shall be allowed.

\* See Article 606.07 (a) for Constructing Monolithically.

	HMA SURFACE REMOVAL, 3/4"
	GUTTER REMOVAL

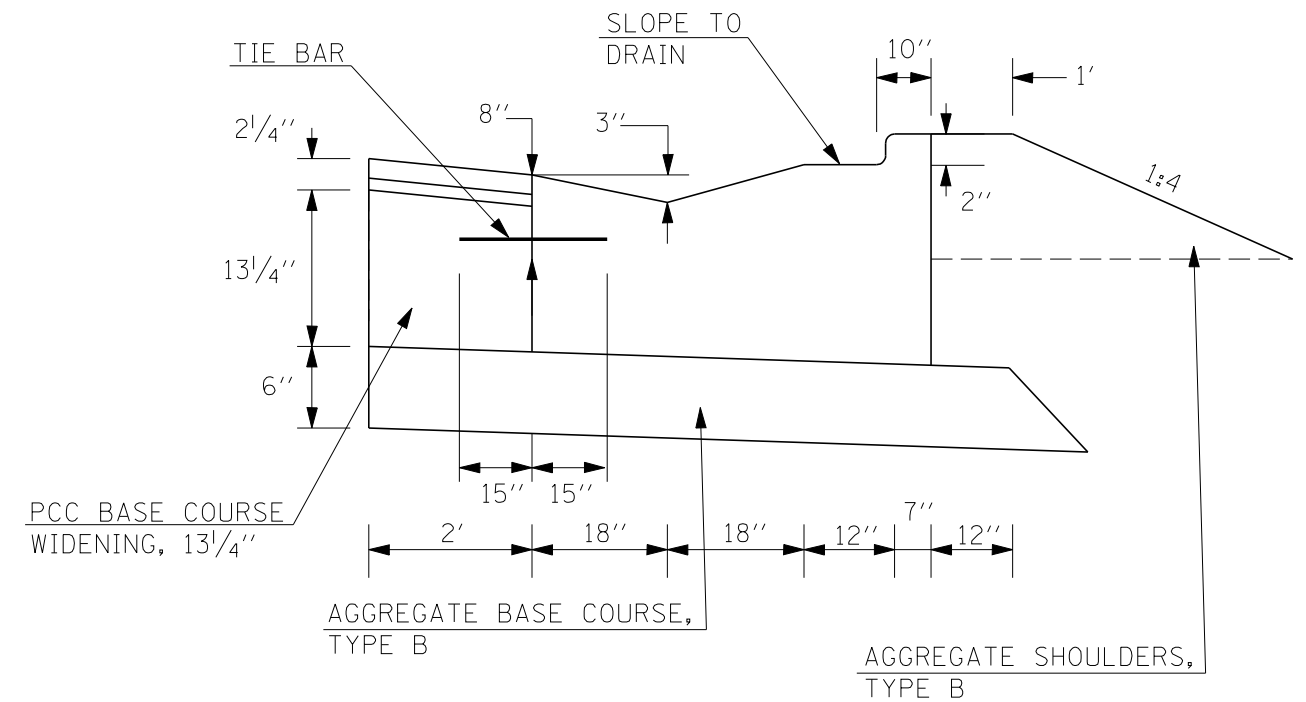
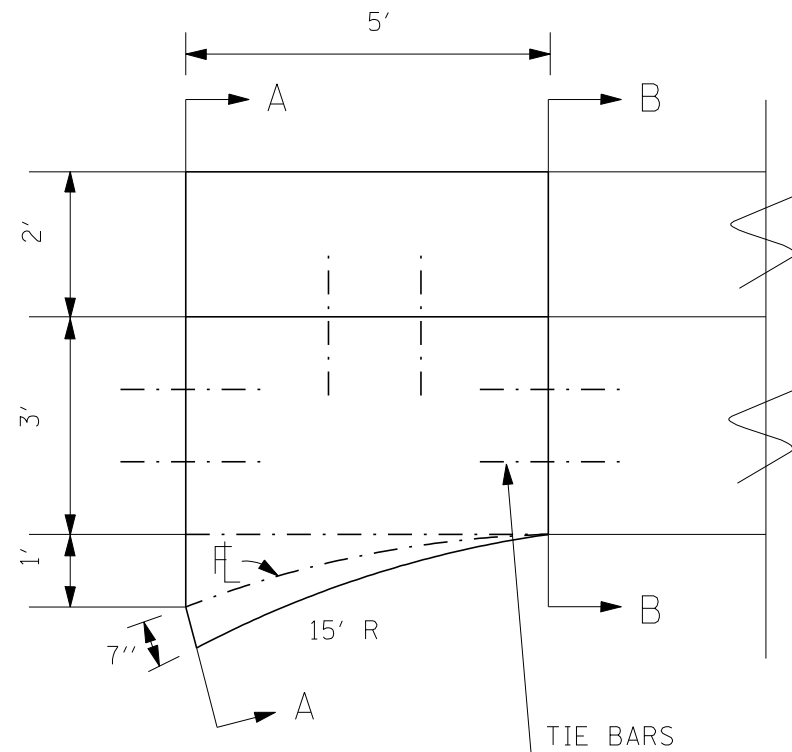
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>CONCRETE GUTTER RECONSTRUCTION DETAIL</b>  SCALE: VERT.      DRAWN BY HORIZ.              CHECKED BY DATE

PLOT DATE : 11/15/2007  
 FILE NAME : c:\projects\4595800 (v8)\rev.plamhats.dgn  
 PLOT SCALE : 42,352% / IN.  
 USER NAME : collierb

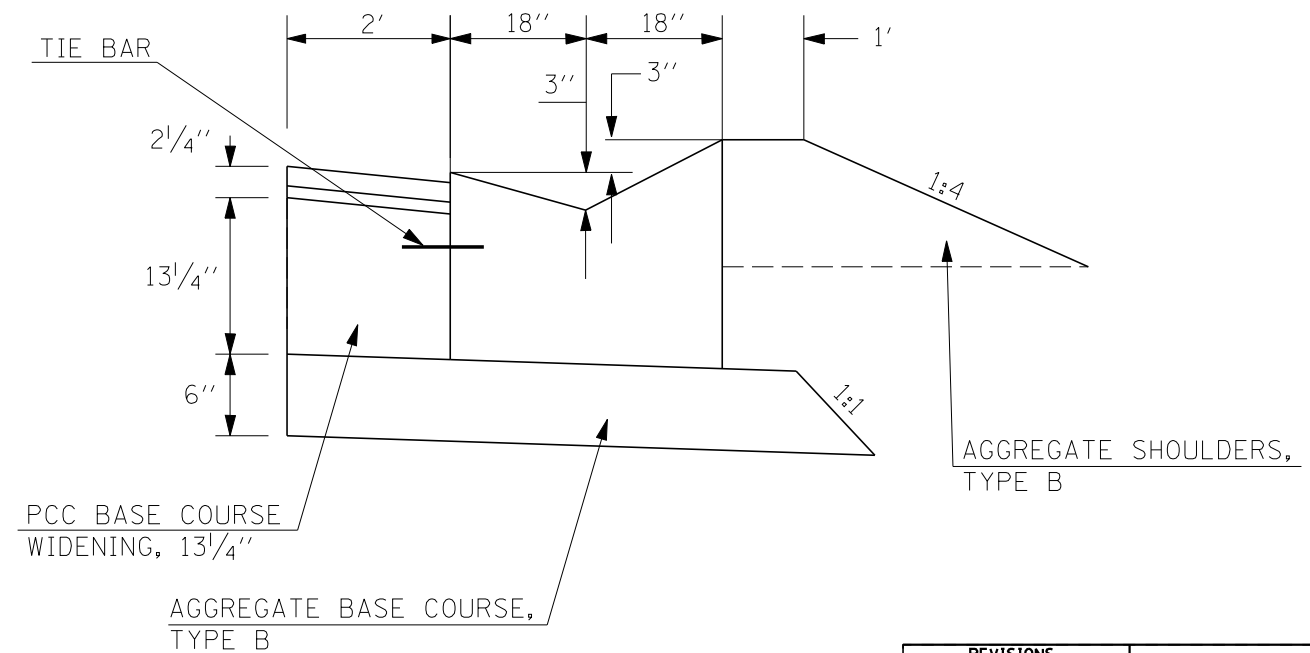
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	50
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**DETAIL OF GUTTER OUTLET, SPECIAL**

SECTION A-A



SECTION B-B



GENERAL NOTES

- ① Class SI Concrete shall be used throughout.
- ② Tie Bars shall be No. 6 (No. 20) at 24" (600 mm) centers unless otherwise shown. Special inlets and outlets shall be tied to the pavement in accordance with details for longitudinal construction joint shown on standard 420001.
- ③ Tie Bars shown above will not be paid for separately but shall be considered as incidental to Gutter Outlet, Special.
- ④ Aggregate Base Course, Type B will not be paid for separately but shall be considered incidental to Gutter Outlet, Special.
- ⑤ When special inlet is constructed adjacent to flexible pavement, the tie bars shall be omitted and all construction joints shall be provided with a dowel bar conforming to article 1006.11(b).
- ⑥ This work will be paid for at the contract unit price per Cu.Yd. (m3) for Class SI Concrete (Outlet) which price shall include all labor and material as specified and no additional compensation will be allowed.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CONCRETE GUTTER RECONSTRUCTION DETAIL**

SCALE: VERT. / HORIZ. / DATE

DRAWN BY / CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	51
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### GUARDRAIL DETAILS

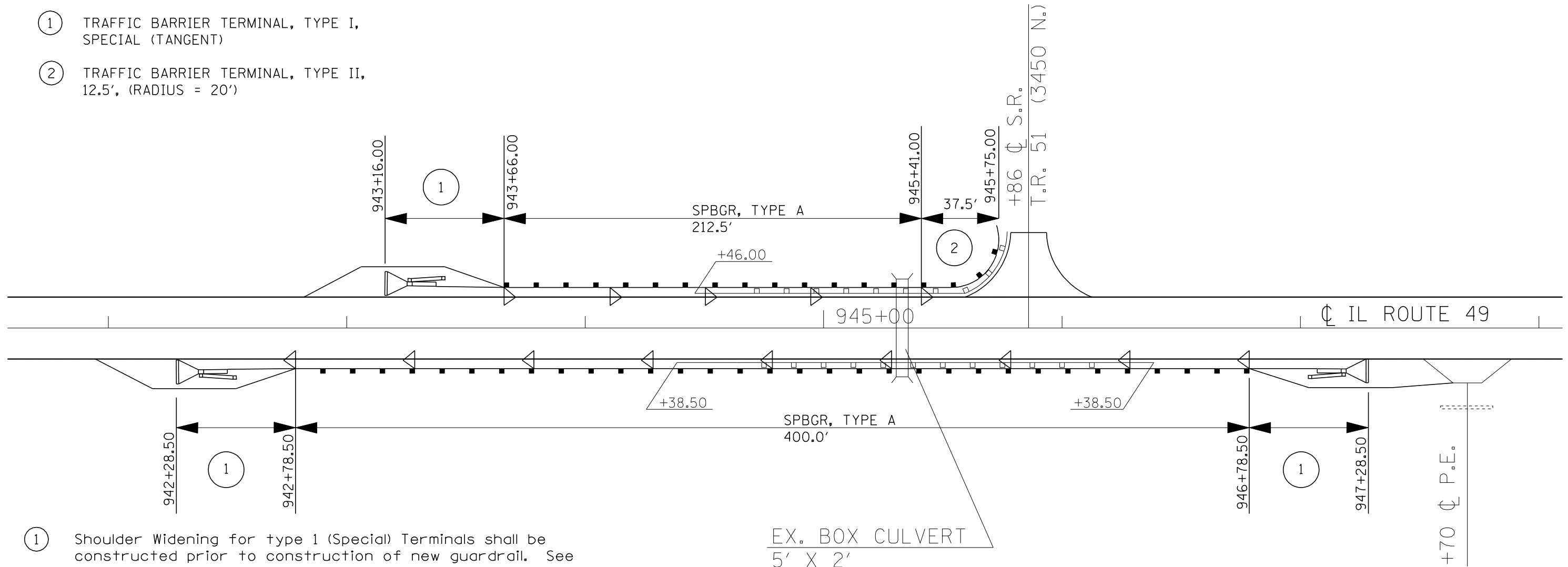
LT STA. 943+16.00 - 945+75.00  
 RT STA. 942+28.50 - 947+66.00



◁ MONODIRECTIONAL  
 GUARDRAIL REFLECTORS

① TRAFFIC BARRIER TERMINAL, TYPE I,  
 SPECIAL (TANGENT)

② TRAFFIC BARRIER TERMINAL, TYPE II,  
 12.5', (RADIUS = 20')



① Shoulder Widening for type 1 (Special) Terminals shall be constructed prior to construction of new guardrail. See Standard 630301-04 for Details.

② Shoulder Widening shall be seeded with Class 7 Seed after completion.

③ No rock, stones, millings, or broken concrete shall be permitted within a vertical distance of 12" from the surface of the finished grade of the shoulder widening.

④ Shoulder Widening for Type 1 (Special) Terminals shall not be paid for separately due to an excess of Earth Excavation. Therefore, the application of the Class 7 Seed as well as any other material associated with the completion of the widening shall be considered incidental to the Type 1 (Special) Terminals and no additional compensation shall be allowed.

EX. BOX CULVERT  
 5' X 2'  
 STA. 945+33

NOTE: Detail is not to scale  
 but for information only.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GUARDRAIL DETAILS**  
**STA. 942+28.50 - 947+66.00**

SCALE: VERT.  
 HORIZ.  
 DATE

DRAWN BY  
 CHECKED BY

PLOT DATE = 11/15/2007  
 FILE NAME = c:\projects\45955800 (v8)\rev.plamhats.dgn  
 PLOT SCALE = 42,352% / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	52
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### GUARDRAIL DETAILS

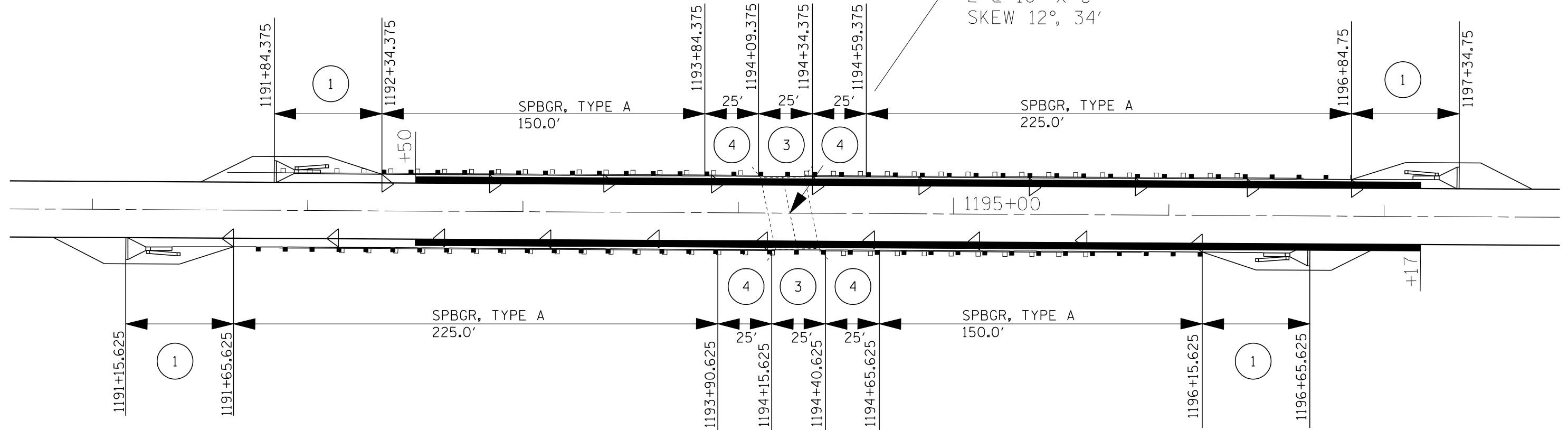
LT STA. 1191+84.375 - 1197+34.75  
 RT STA. 1191+15.625 - 1196+65.625

MONODIRECTIONAL  
 GUARDRAIL REFLECTORS

- ① TRAFFIC BARRIER TERMINAL, TYPE I, SPECIAL (TANGENT)
- ② TRAFFIC BARRIER TERMINAL, TYPE II, 12.5', (RADIUS = 20')
- ③ STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE, 25'
- ④ STEEL PLATE BEAM GUARDRAIL, TYPE B, 25'



MULTI. R.C. BOX CULVERT  
 STA. 1194+24  
 2 @ 10' x 8'  
 SKEW 12°, 34'



- ① Shoulder Widening for type 1 (Special) Terminals shall be constructed prior to construction of new guardrail. See Standard 630301-04 for Details.
- ② Shoulder Widening shall be seeded with Class 7 Seed after completion.
- ③ No rock, stones, millings, or broken concrete shall be permitted within a vertical distance of 12" from the surface of the finished grade of the shoulder widening.
- ④ Shoulder Widening for Type 1 (Special) Terminals shall not be paid for separately due to an excess of Earth Excavation. Therefore, the application of the Class 7 Seed as well as any other material associated with the completion of the widening shall be considered incidental to the Type 1 (Special) Terminals and no additional compensation shall be allowed.

NOTE: Detail is not to scale but for information only.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GUARDRAIL DETAILS**  
**STA. 1170+55.50 - 1176+80.00**

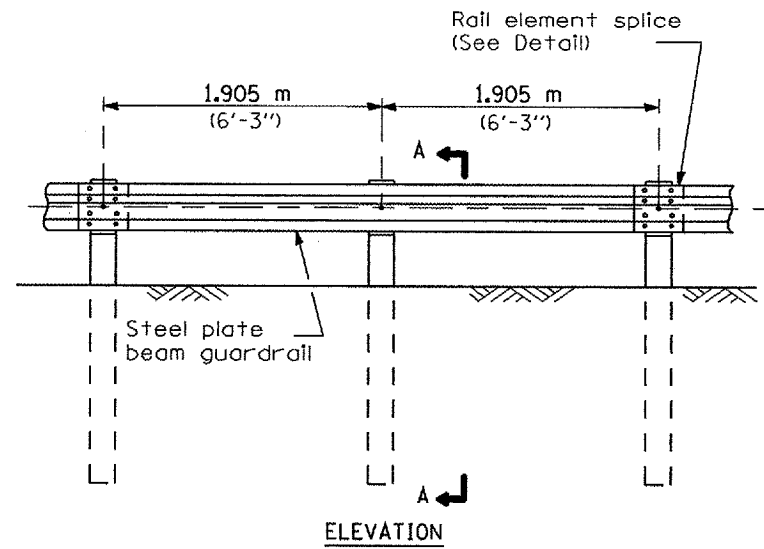
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 HORIZ. \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 11/15/2007  
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 USER NAME = collierb

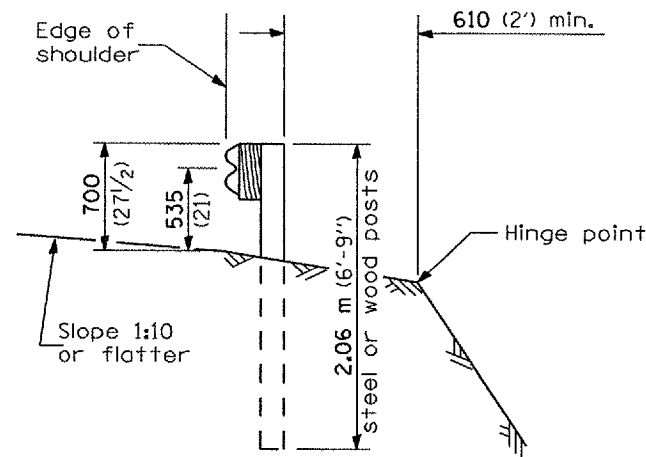
F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84	(21)25-3	Waukegan		52A
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

70128

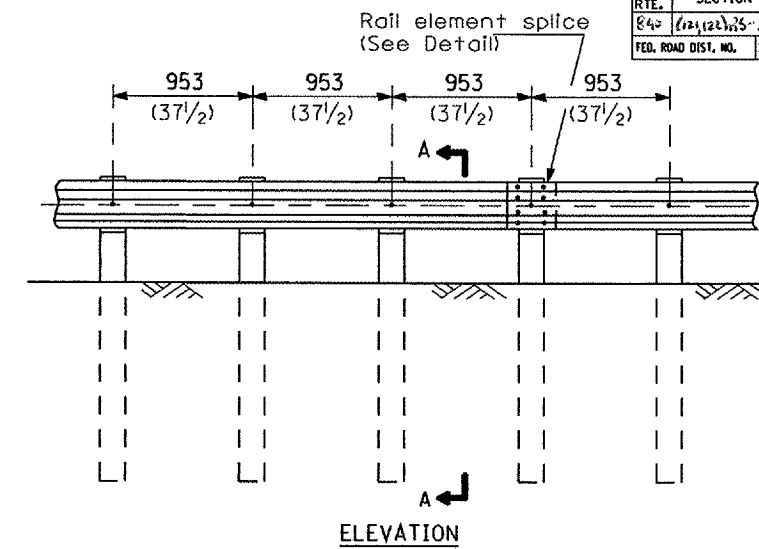


**TYPE A**

1.905 m (6'-3") Typical post spacing

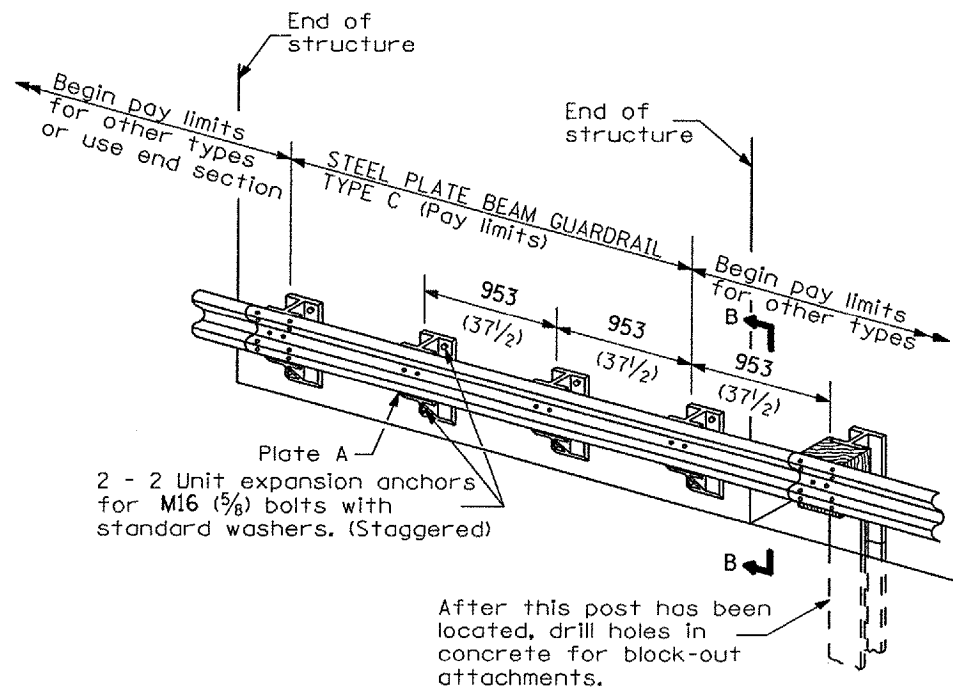


**SECTION A-A**



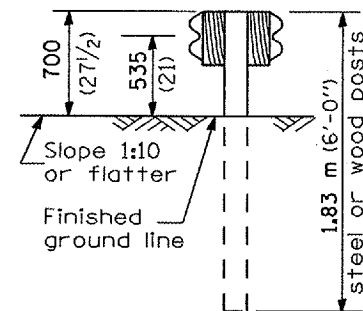
**TYPE B**

953 (37 1/2) Closed post spacing

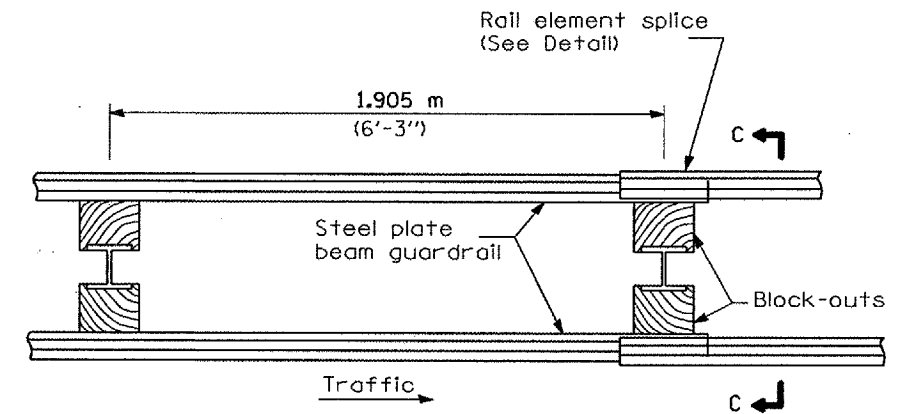


**TYPE C**

953 (37 1/2) Block-out spacing

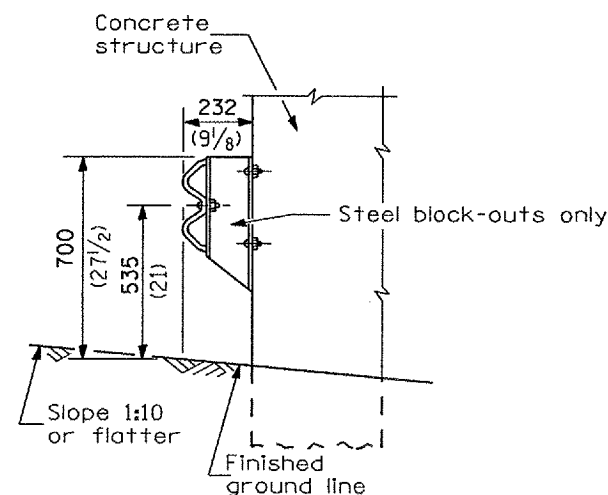


**SECTION C-C**



**TYPE D**

Double steel plate beam guardrail  
1.905 m (6'-3") typical post spacing



**SECTION B-B**

**GENERAL NOTES**

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

The existing steel posts may be drilled to match the bolt pattern shown herein for the wood block-out, or a new steel post shall be provided.

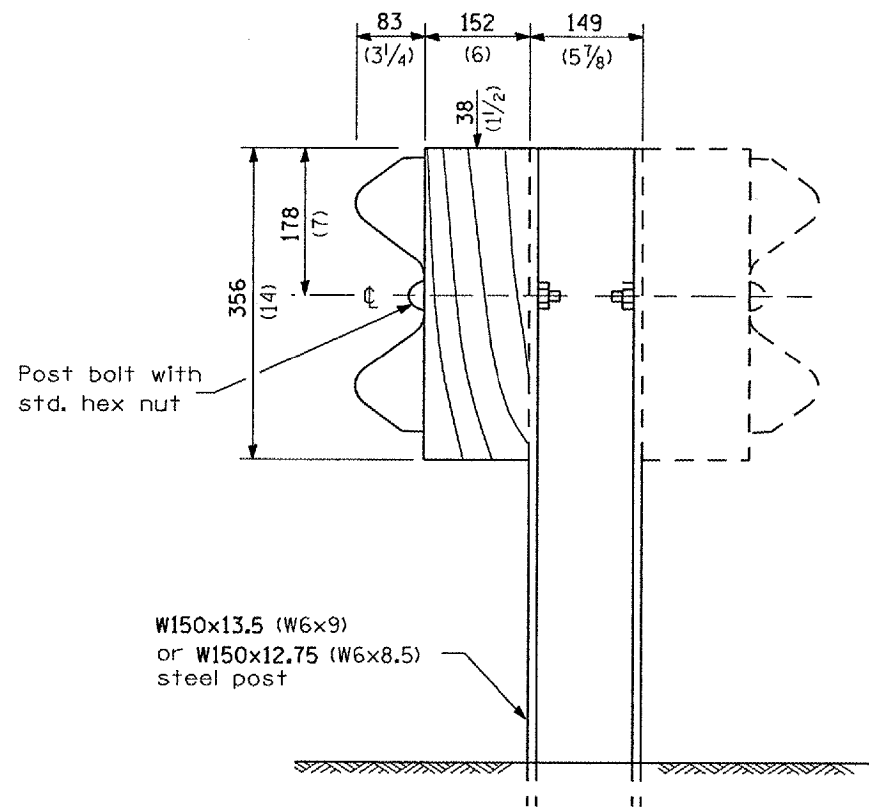
This detail is applicable to the guardrail system used prior to January 1, 2007. For details on the Midwest Guardrail System, see Standard 630001.

**REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL**

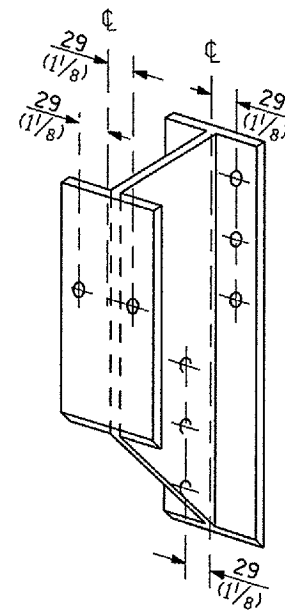
(Sheet 1 of 4)

**DETAIL**

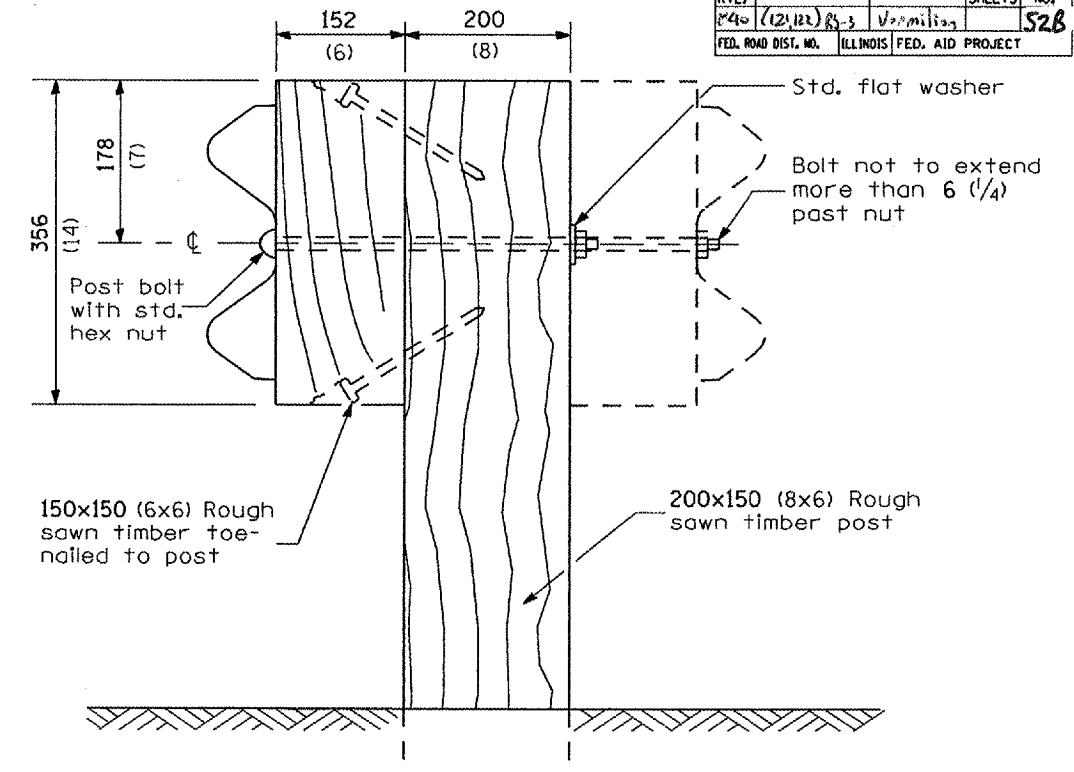
F.A. DIST. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	(2,12) 8-3	Vermilion		528
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



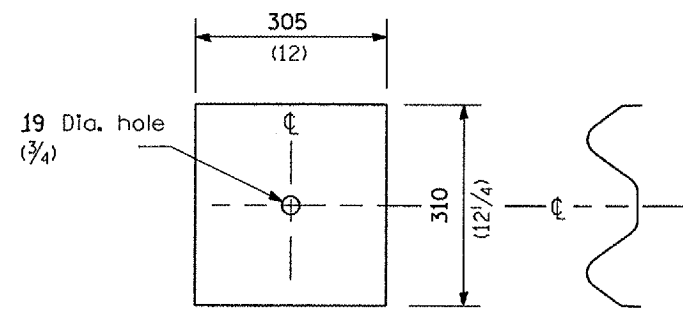
**STEEL POST CONSTRUCTION**



**STEEL BLOCK-OUT DETAIL**



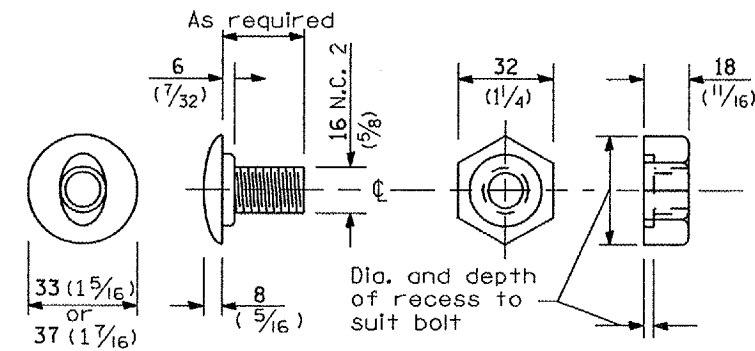
**WOOD POST CONSTRUCTION**



NOTE

Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

**PLATE A**



**POST OR SPLICE BOLT & NUT**

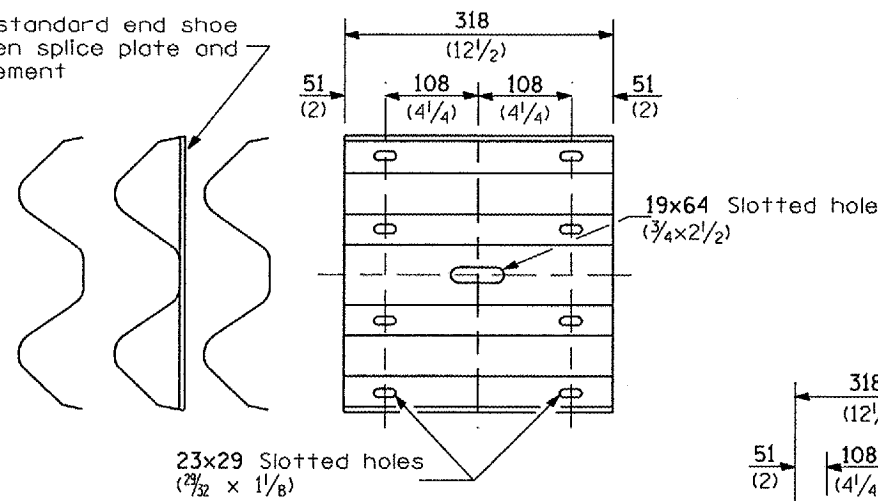
**REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL**

(Sheet 2 of 4)

**DETAIL**

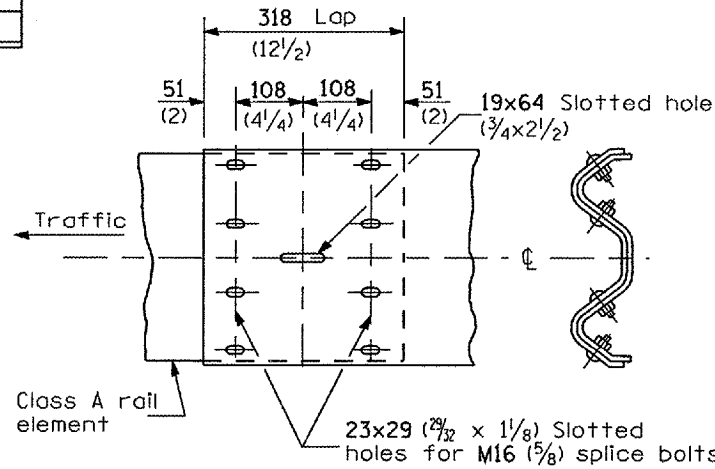
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
640	(12,12) 3-3	Vermilion		52C
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Place standard end shoe between splice plate and rail element

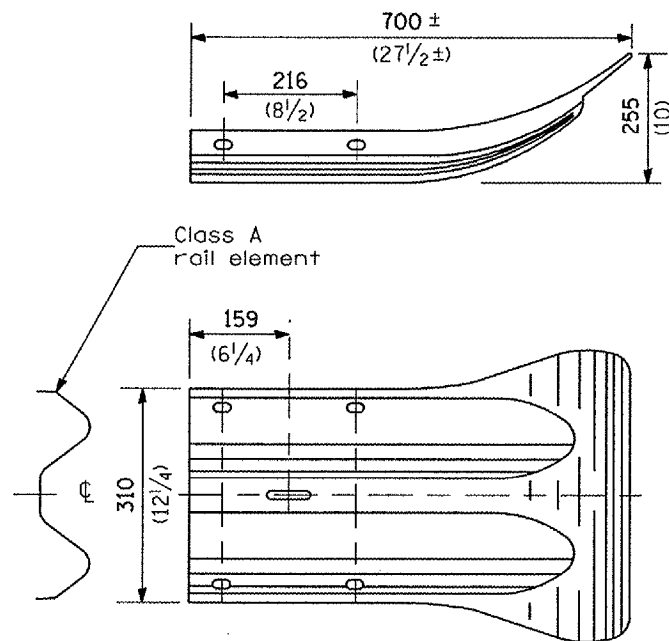


23x29 Slotted holes (29/32 x 1 1/8)

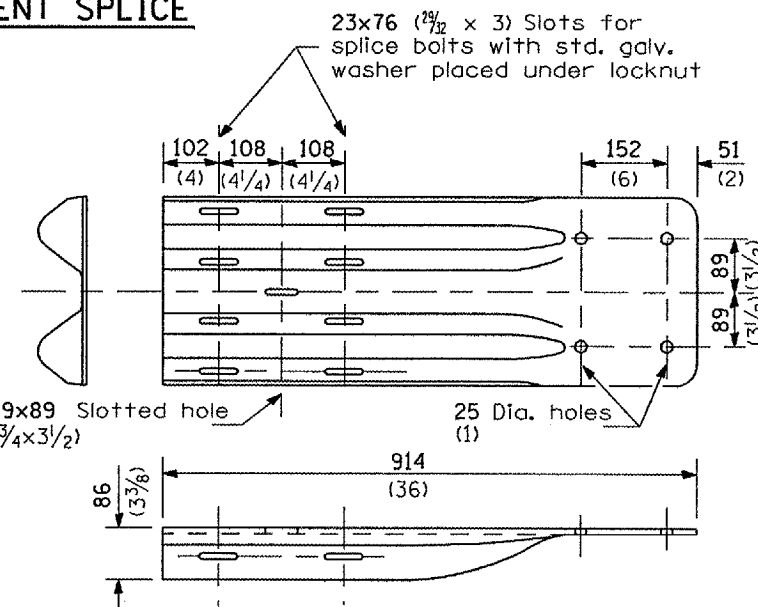
**SPLICE PLATE**



**RAIL ELEMENT SPLICE**



**END SECTION**



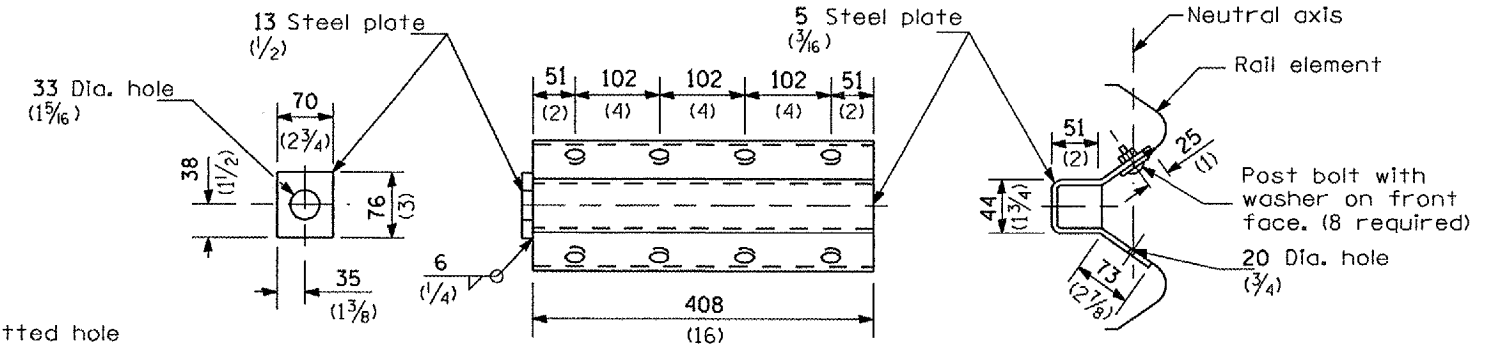
NOTE

When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

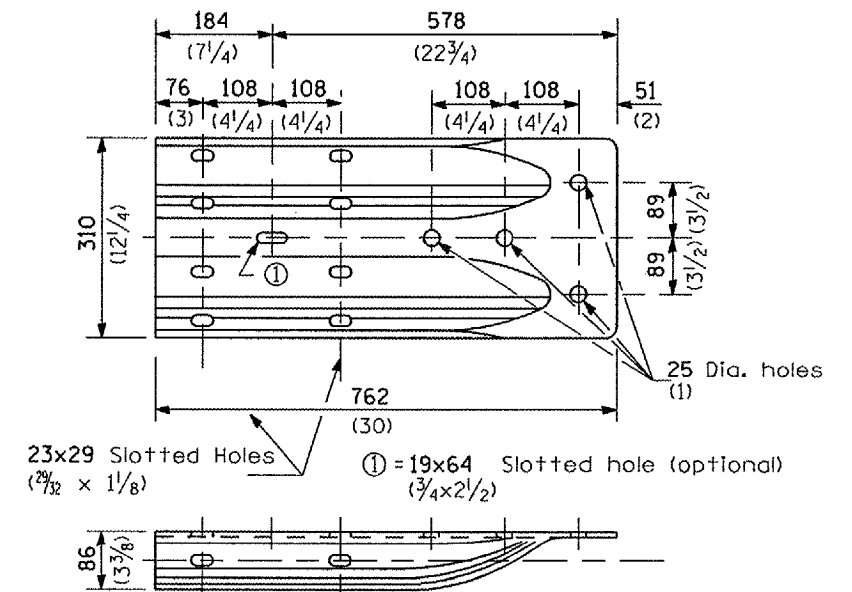
**END SHOE**



NOTE

Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

**ANCHOR PLATE T DETAILS**



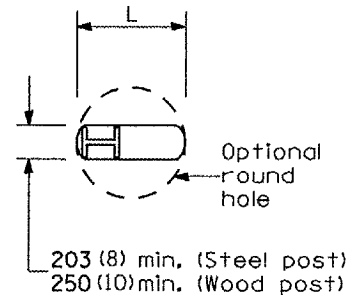
**ALTERNATE END SHOE**

**REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL**

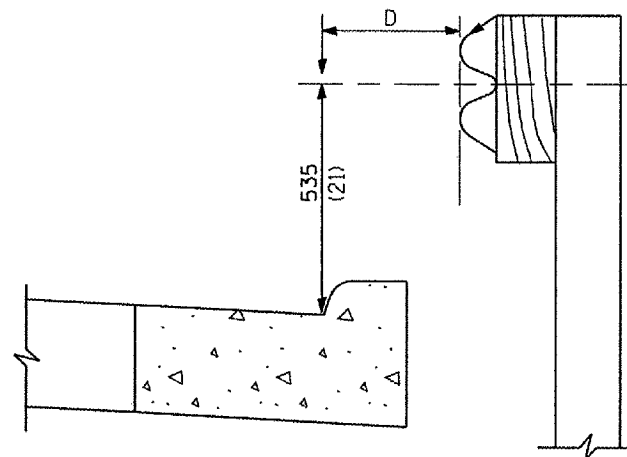
(Sheet 3 of 4)

**DETAIL**

F.A. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122) 3-3	Vermillion		520
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



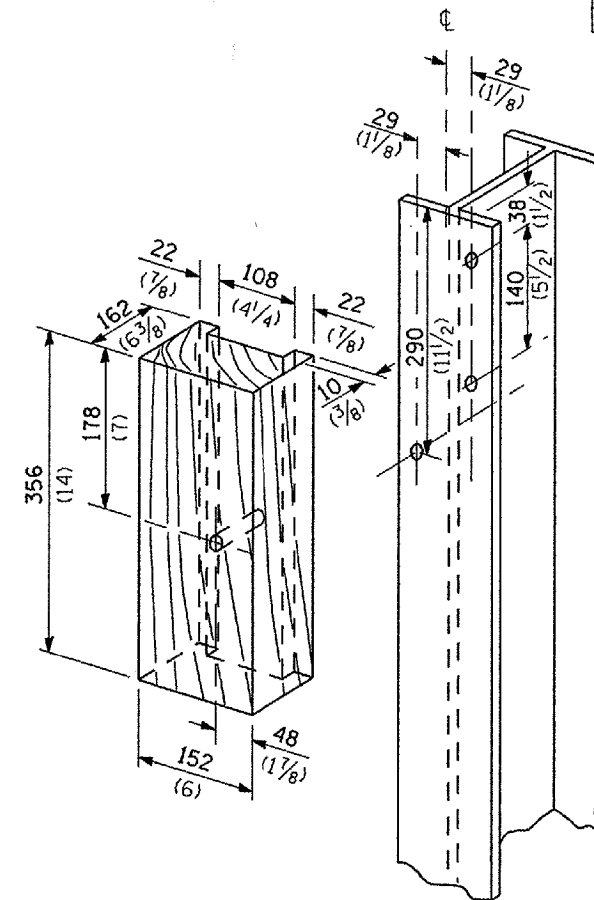
**PLAN**



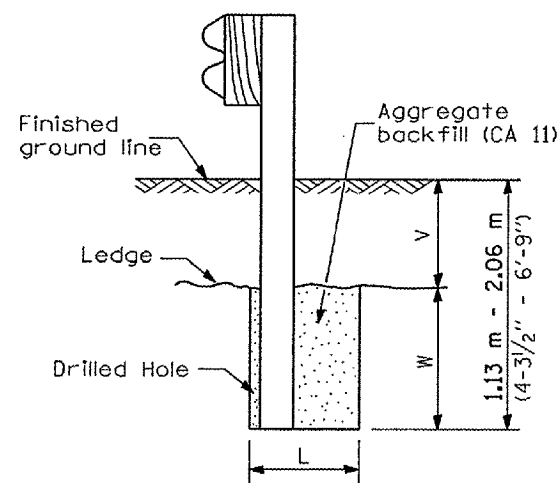
**Note:**  
If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0") type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

**GUARDRAIL PLACED BEHIND CURB**

(D = 0 desirable to 300 (12) maximum)



**WOOD BLOCK-OUT AND STEEL POST DETAILS**

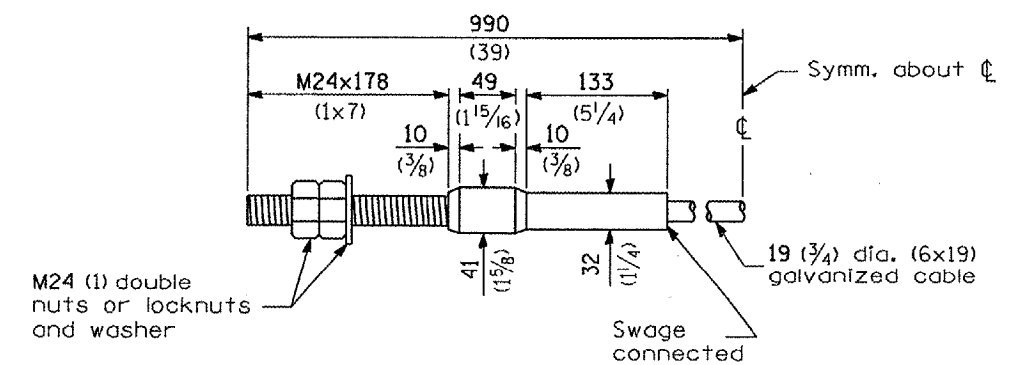


**Note:**  
Ledge line is top of rock ledge or hard slag fill.

**ELEVATION**

**FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED**

V	W	L	
		Steel Post	Wood Post
0 - 460 (0 - 18)	610 (24)	530 (21)	580 (23)
>460 - 825 (>18 - 41.5)	305 (12)	203 (8)	250 (10)
>825 - 1.13 m (>41.5 - 53.5)	305 - 0 (12 - 0)	203 (8)	250 (10)



**CABLE ASSEMBLY**

(18,100 kg (40,000 lbs.) min. breaking strength)  
Tighten to taut tension.

**REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL**

(Sheet 4 of 4)

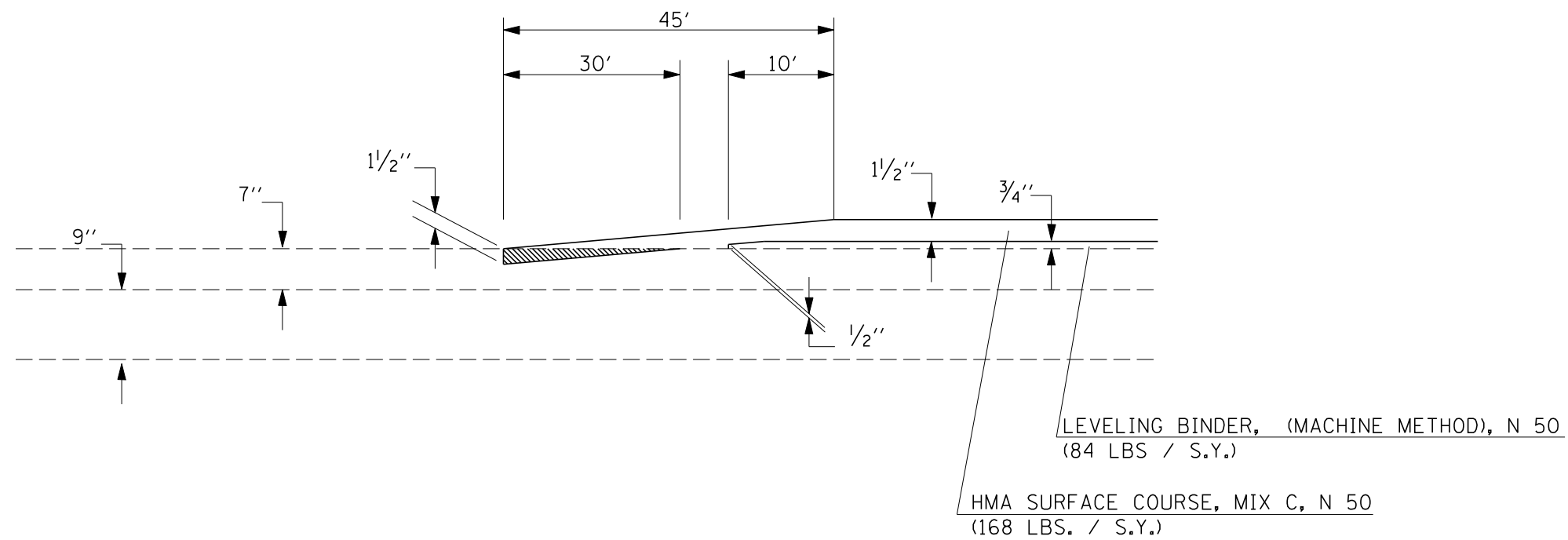
**DETAIL**



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	53
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF HMA SURFACE REMOVAL - BUTT JOINT

STATION	TO	STATION	LOCATION
765+00		765+30	SOUTH LIMIT
855+56		855+86	S.N. 092-0101 (SOUTH)
860+32		860+62	S.N. 092-0101 (NORTH)
1279+80		1280+10	NORTH LIMIT



 HMA SURFACE REMOVAL - BUTT JOINT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

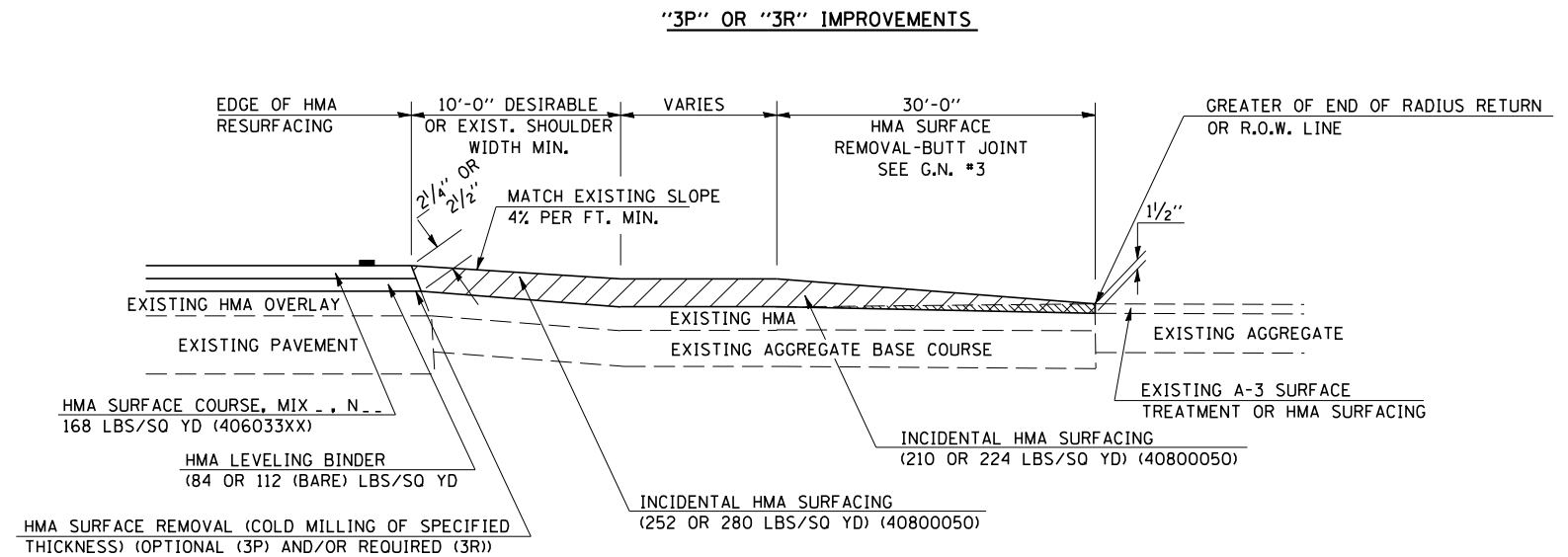
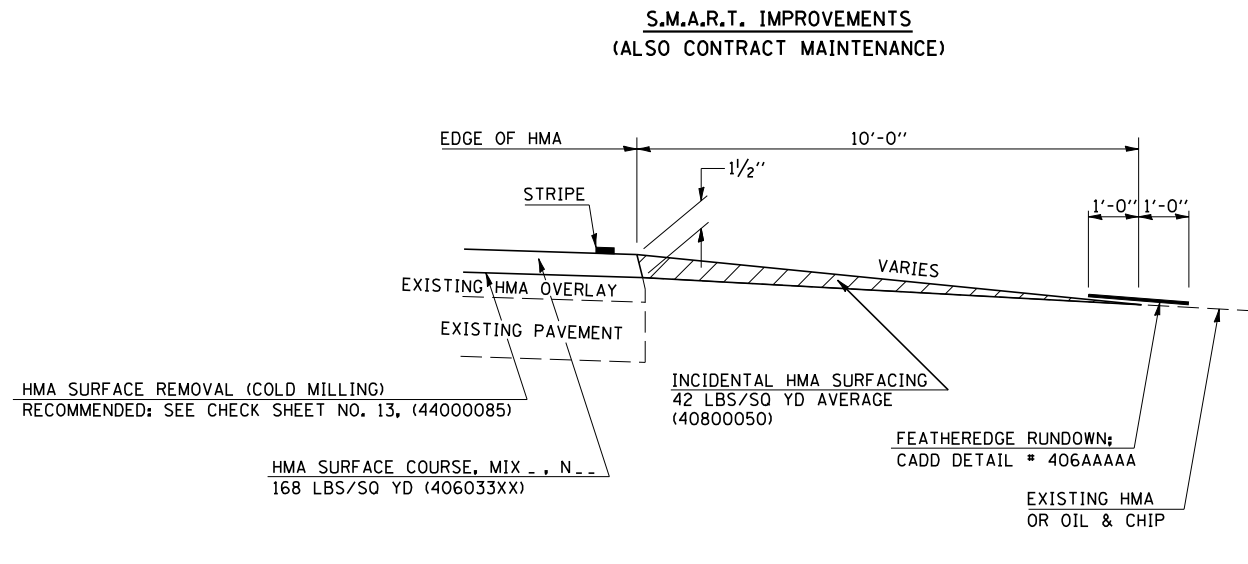
DETAIL OF HMA SURFACE  
REMOVAL - BUTT JOINT  
& TRANSITION

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	54

### PROJECTS WITHOUT RECONSTRUCTION

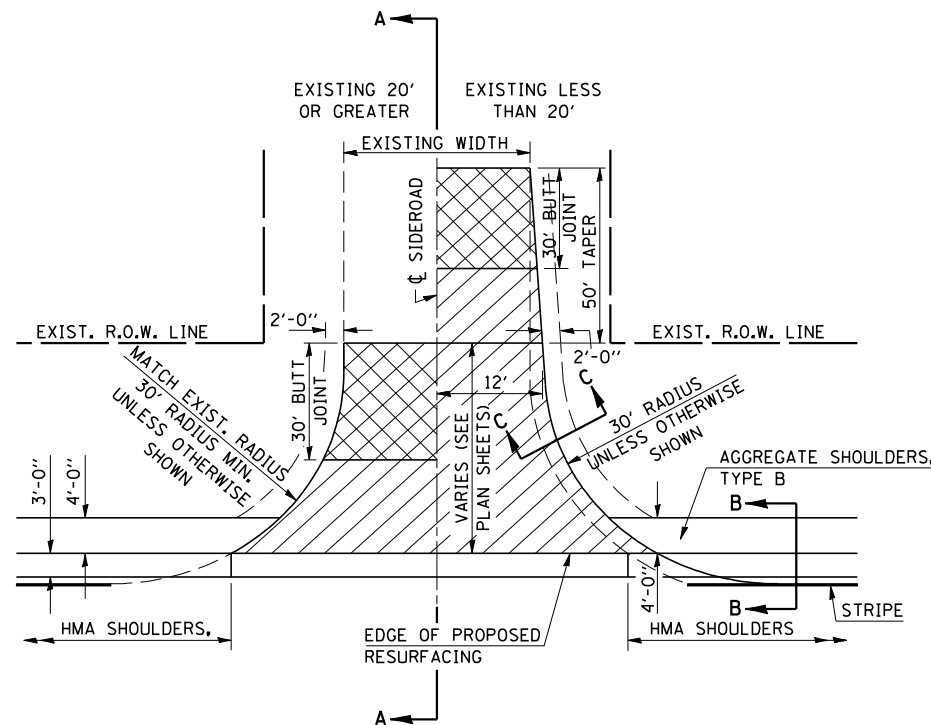


### PROJECTS WITH RECONSTRUCTION ("3R" IMPROVEMENTS)

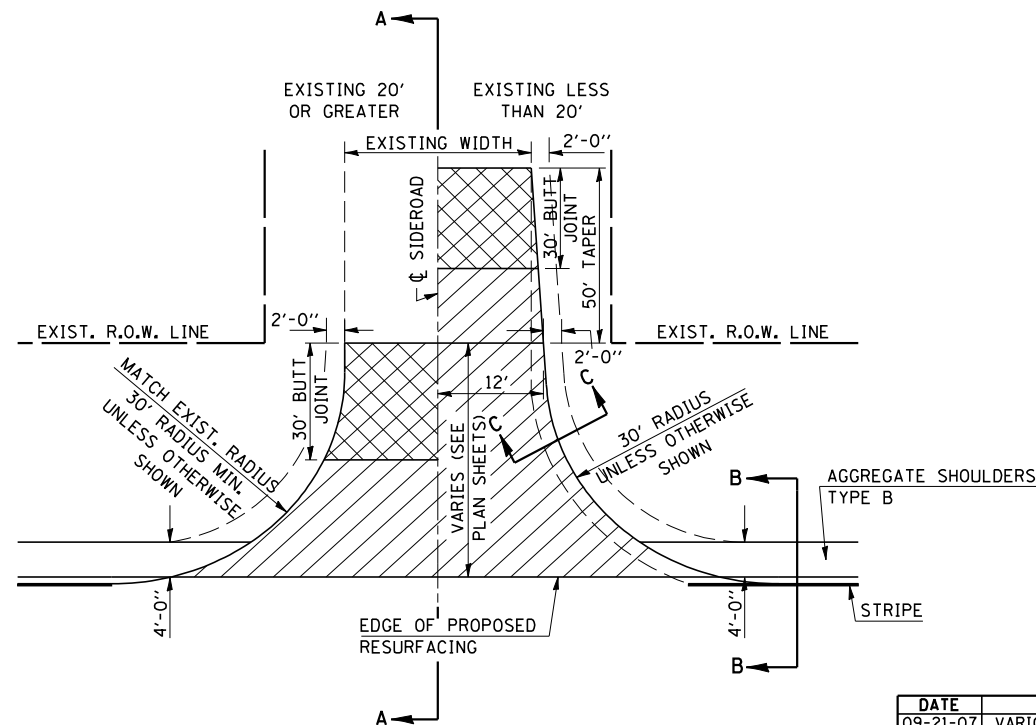
#### GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS
2. PROPOSED SIDEROAD GRADES SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. MAJOR SIDEROAD/SIDESTREETS (>400 ADT) SHALL HAVE "BUTT JOINTS" CONSTRUCTED WHETHER THE EXISTING ENTRANCE IS HMA OR PCC. MINOR SIDEROAD/SIDESTREETS (<400 ADT) SHALL HAVE "FEATHEREDGE RUNDOWNS".
4. AGGREGATE BASE COURSE, TYPE B OF THE THICKNESS SPECIFIED IN THE PLANS 6" MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT 6" EXISTING BASE MATERIAL FOR THE PROPOSED SIDEROAD RETURNS. THIS MATERIAL SHALL BE USED TO WIDEN SIDEROAD RETURNS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 1' WIDER THAN THE SURFACE DIMENSIONS.
6. AGGREGATE SHOULDERS, TYPE B WILL BE WRAPPED AROUND THE SIDEROAD RETURNS. TAPER WIDTH FROM 4' ALONG MAINLINE TO 2' AT BACK OF RETURN.

#### WITH HMA SHOULDER



#### WITHOUT HMA SHOULDER



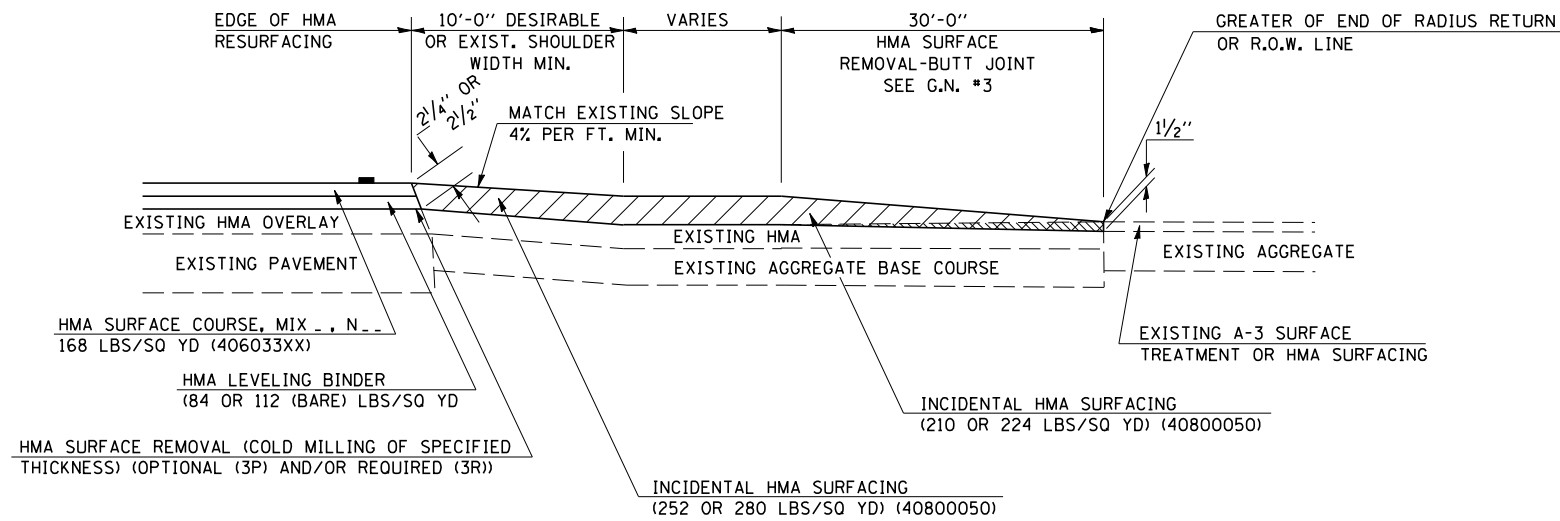
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
09-21-07	VARIOUS CORRECTIONS	K.A.G.	SIDEROADS & SIDESTREETS (RURAL)
12-13-06	NEW DETAIL	T.J.B.	
			DISTRICT 5 DETAIL NO. 408000AA

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 USER NAME = collierb

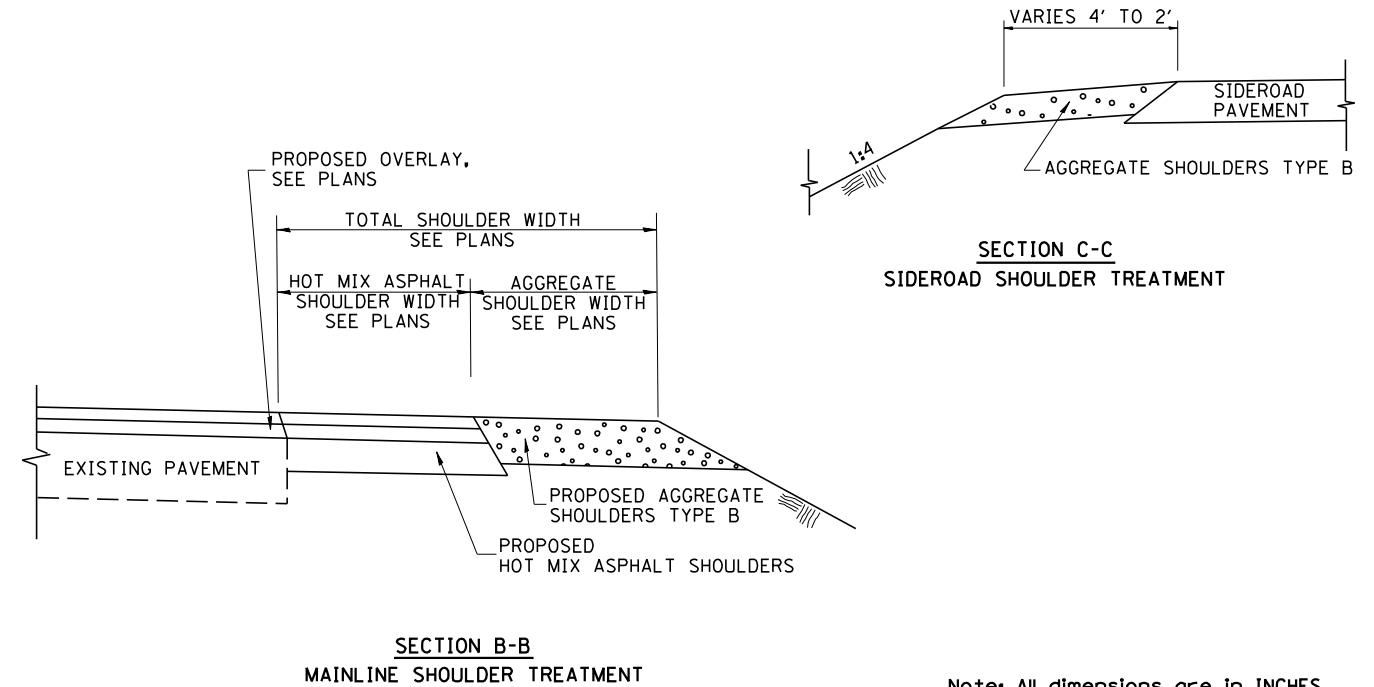
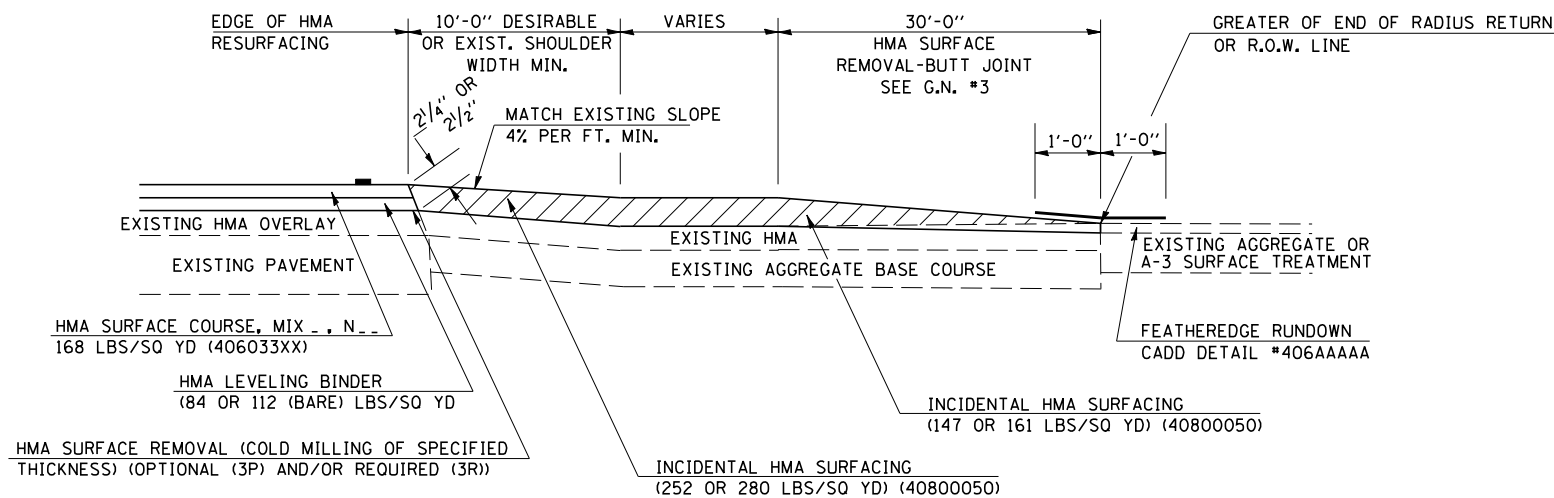
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	55

**SECTION A-A**  
EXISTING HMA OR PCC SIDEROAD (>400 ADT)



DESIGN ELEMENT	New Construction & 3R (Existing Width Less Than 20 ft)			3R (Existing Width 20 ft or Greater) & 3P			SMART & Contract Maintenance		
	min.	des.	max.	min.	des.	max.	min.	des.	max.
<b>SURFACE WIDTH (FT);</b> (measured at end of radius or row line; greatest distance from edge of traveled way)	24	24	Coordinate with Geometrics Engineer	resurface existing configuration to completion of radius return or row line; greatest distance from edge of traveled way; major sideroads (> 400 adt) shall have "butt joints" constructed whether the entrance is hma or pcc; minor sideroads (< 400 adt) shall have "featheredge rundown" as shown in district cadd detail 406AAAAA					
<b>RADIUS (FT)</b>	30	30		resurface existing configuration with the completion of a 10 ft. featheredge rundown for ALL sideroads as shown in district cadd detail 406AAAAA					
<b>SHOULDER WIDTH (FT)</b>	4	8	10						
<b>SHOULDER SLOPE (%)</b>	2	4	12						
<b>ENTRANCE GRADE (%)</b>	1	1 to 4	4						
<b>BREAKOVER (%)</b>	0	5	10						
<b>SIDE SLOPE</b>	1:10	1:6	1:4						
<b>INTERSECTION ANGLE</b>	60	75 to 90							
<b>SURFACE TYPE</b>									
<b>INCIDENTAL HMA SURFACING (INCH)</b>	4			taper from 2 1/4" to 1 1/2" or featheredge			taper from 1 1/2" to featheredge		
<b>AGGREGATE BASE COURSE, TYPE A (INCH)</b>	8	4		if applicable use item: 35800100 Preparation of Base					
<b>PCC PAVEMENT (INCH)</b>		8							

**SECTION A-A**  
EXISTING AGGREGATE OR SEAL COAT SIDEROAD (<400 ADT)



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
09-21-07	VARIOUS CORRECTIONS	K.A.G.	<b>SIDEROADS &amp; SIDESTREETS (RURAL)</b>
12-13-06	NEW DETAIL	T.J.B.	
			<b>DISTRICT 5 DETAIL NO. 408000AA</b>

PLOT DATE = 11/16/2007  
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 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	56

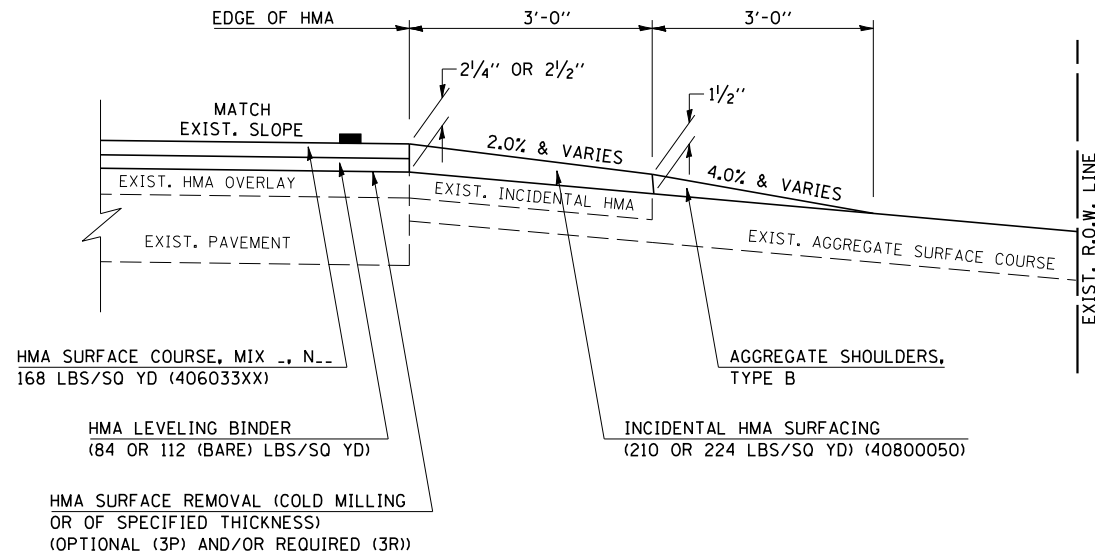
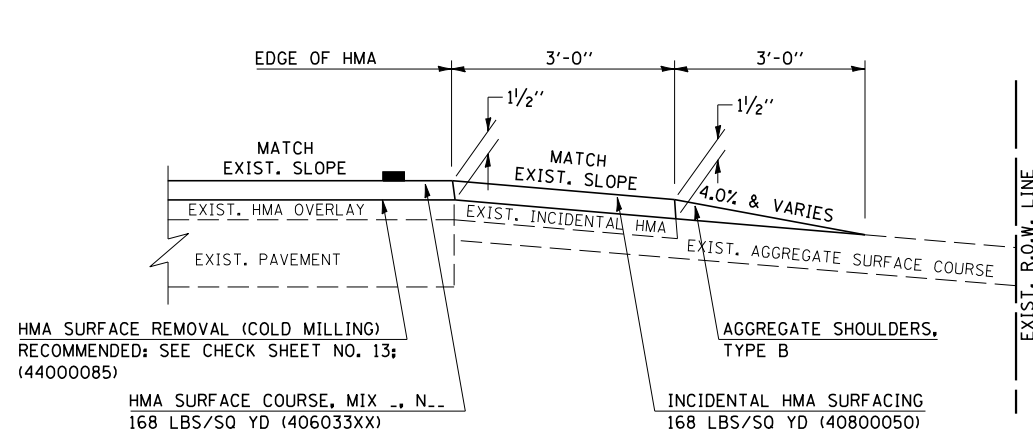
**PROJECTS WITHOUT RECONSTRUCTION**

("3R" WITHOUT RECONSTRUCTION, 3P, SMART AND CM)

"3P" OR "3R" IMPROVEMENTS

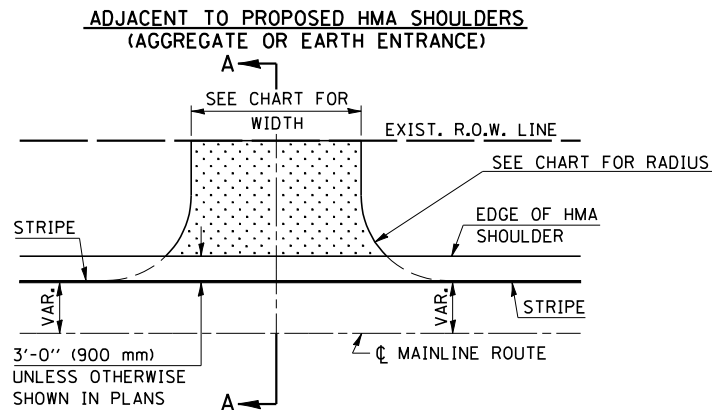
(POLICY RESURFACING; BDE 53-4.02; 2 1/4" OR 2 1/2" ON BARE CONCRETE)

**S.M.A.R.T. IMPROVEMENTS**  
(POLICY RESURFACING; BDE 53-4.03; 1 1/2")

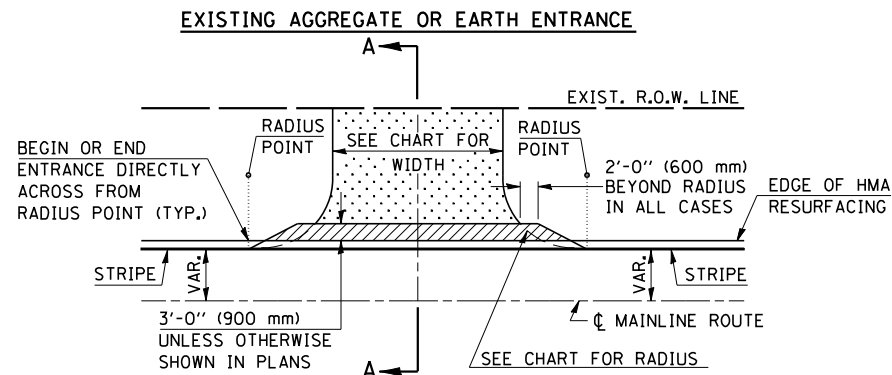


**PROJECTS WITH RECONSTRUCTION**

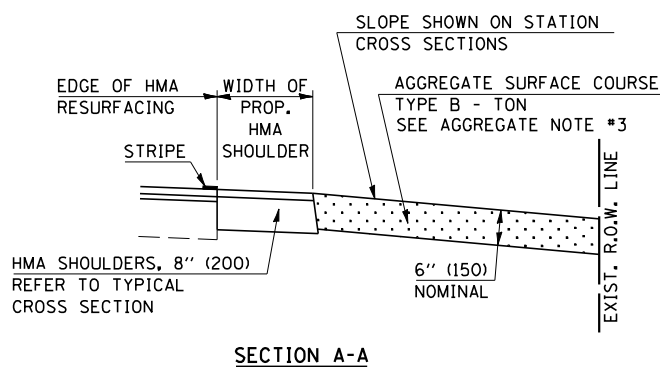
("3R" IMPROVEMENTS AND SMART/3P "SPOT" LOCATIONS)



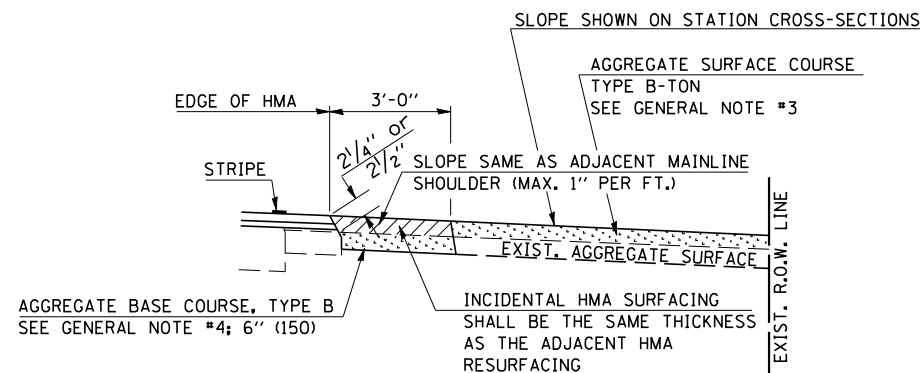
TYPICAL APPLICATION



TYPICAL APPLICATION



SECTION A-A



SECTION A-A

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
09-21-07	VARIOUS CORRECTIONS	K.A.G.
12-01-06	RENUMBERED/COMBINED C-1.32 & C-1.26 WITH ADDITIONS OF S.M.A.R.T. & 3P & 3R IMPROV	T.J.B.

ILLINOIS DEPARTMENT OF TRANSPORTATION

**FIELD ENTRANCES (NONCOMMERCIAL RURAL)**

**DISTRICT 5 DETAIL NO. 40800050A**

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FILE NAME = c:\projects\40800050A\40800050A.dgn  
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USER NAME = collierb

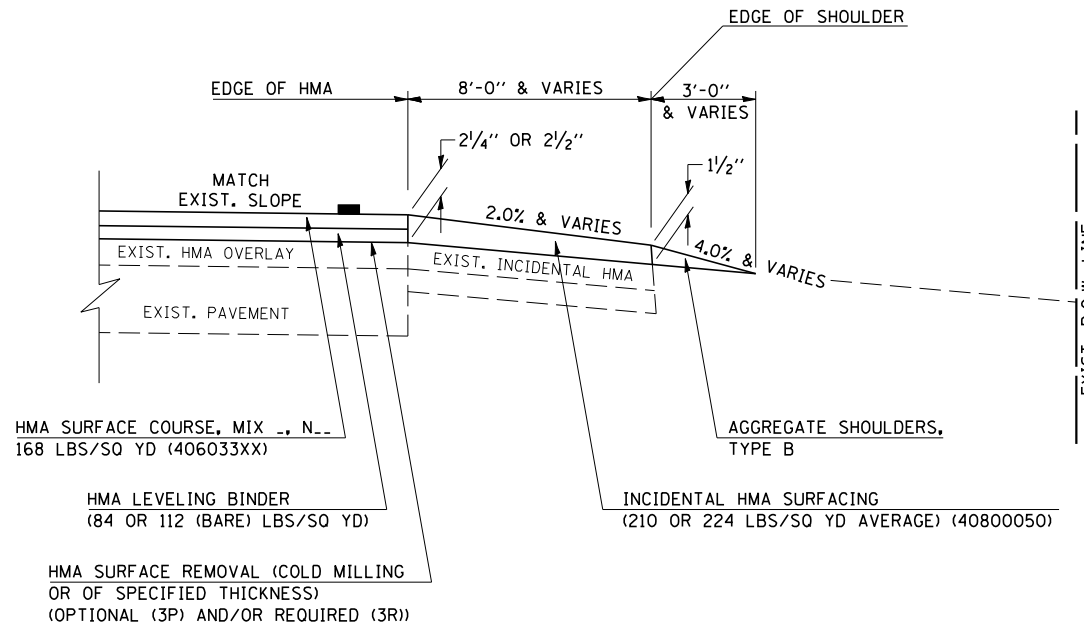
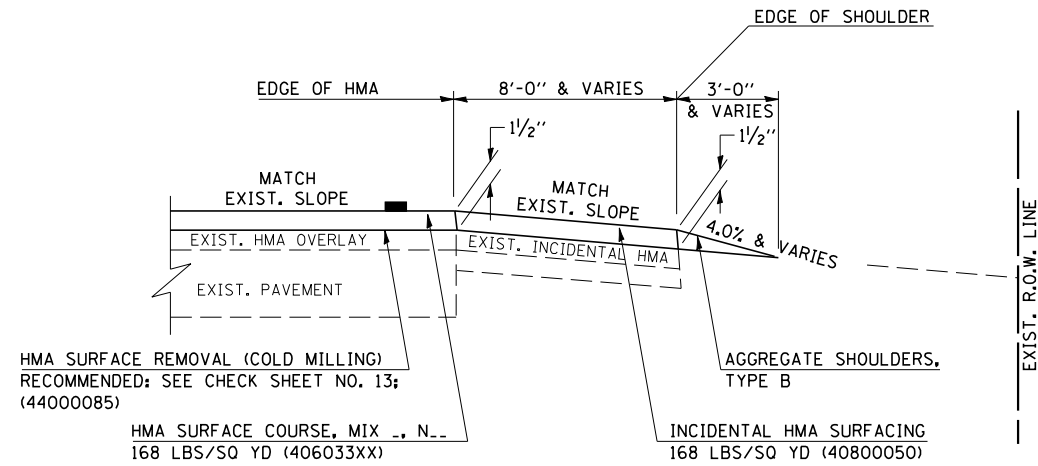


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	58

**PROJECTS WITHOUT RECONSTRUCTION**

**S.M.A.R.T. IMPROVEMENTS**  
(POLICY RESURFACING; BDE 53-4.03; 1 1/2")

**"3P" OR "3R" IMPROVEMENTS**  
(POLICY RESURFACING; BDE 53-4.02; 2 1/4" OR 2 1/2" ON BARE CONCRETE)

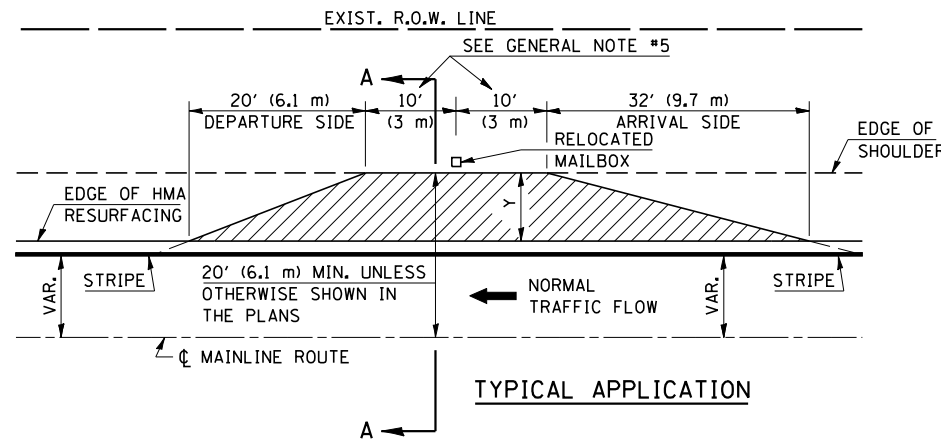


**GENERAL NOTES**

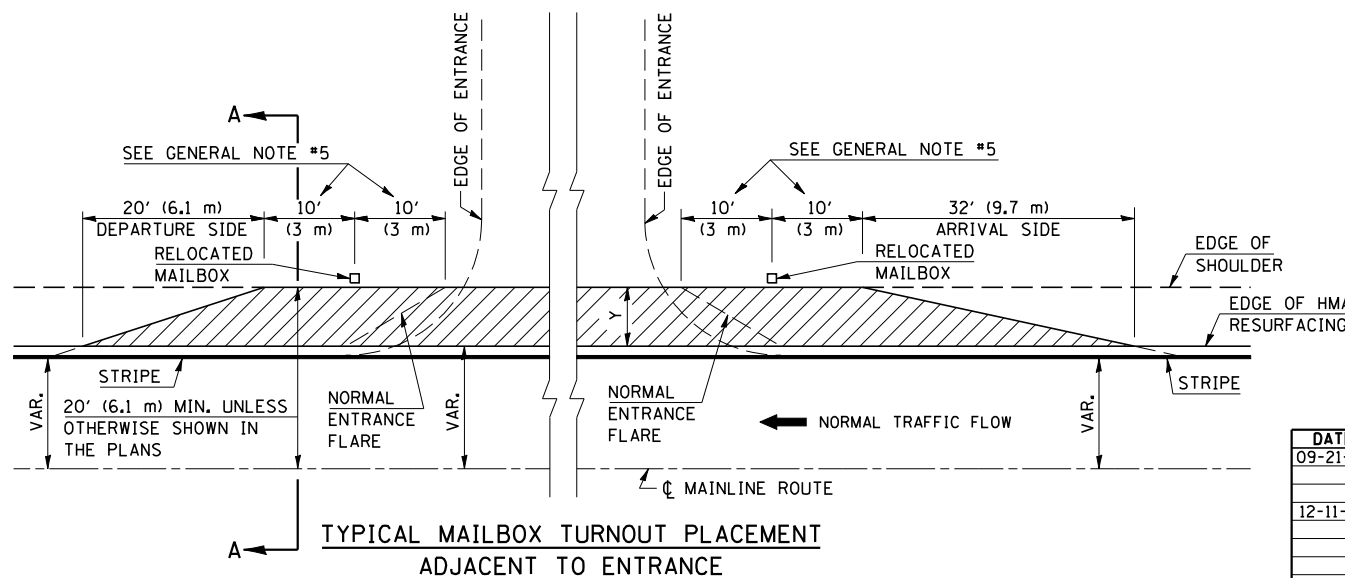
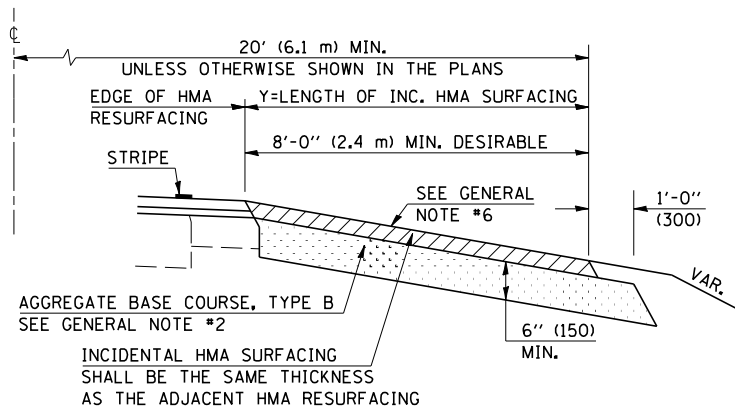
1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE BASE COURSE, TYPE B, 6" (150) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED MAILBOX TURNOUTS. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ALL EXISTING MAILBOX TURNOUTS OR TO CONSTRUCT NEW MAILBOX TURNOUTS WHERE NONE NOW EXISTS.
3. ANY NECESSARY WORK BEHIND THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
4. THE TEMPORARY RELOCATION OF EXISTING MAILBOXES SHALL BE IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.
5. WHEN MORE THAN ONE RELOCATED MAILBOX IS INCLUDED IN A PARTICULAR LOCATION THE TWO 10' (3 m) DIMENSIONS AS SHOWN ABOVE SHALL BE FROM THE END MAILBOX.
6. CROSS SLOPE SHALL BE AS SHOWN ON THE STATION CROSS SECTIONS AND/OR AS DIRECTED BY THE ENGINEER. MINIMUM 4% (1/2") DESIRABLE; MAXIMUM 8% (1")
7. WHEN MAILBOX TURNOUTS ARE CONSTRUCTED ADJACENT TO FIELD ENTRANCES, THE WIDTH OF THE INCIDENTAL HMA SURFACING CONSTRUCTED FOR THE FIELD ENTRANCE SHALL MATCH THE WIDTH OF THE PROPOSED MAILBOX TURNOUT SURFACING.
8. THE TOTAL SHOULDER WIDTH, 2.4 m (8') MINIMUM, SHALL BE PAVED BETWEEN SIDEROADS ENTRANCES AND/OR MAILBOX TURNOUTS AT LOCATIONS WHERE THE DISTANCE BETWEEN RADIUS OR TAPER CONTROL POINTS IS LESS THAN 15.0 m (50').
9. MAILBOXES SHALL BE MOUNTED SUCH THAT THE FACE OF THE MAILBOX IS 6" (150 mm) TO 12" (300 mm) AND THE POST A MINIMUM OF 24" (600 mm) FROM THE EDGE OF THE TURNOUT SURFACING.

**PROJECTS WITH RECONSTRUCTION**

( "3R" IMPROVEMENTS )



WIDTH OF SHOULDER	4'-0" - 8'-0" (1.2 m - 2.4 m)	10'-0" (3.0 m)
WIDTH OF TURNOUT "Y"	8'-0" (2.4 m)	8'-0" - 10'-0" (2.4 m - 3.0 m)



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
09-21-07	WIDTH CHANGE ARRIVAL SIDE AND VAR. CORRECTIONS	K.A.G.
12-11-06	RENUMBERED/COMBINED C-1,2,5 WITH ADDITIONS OF S.M.A.R.T & 3P & 3R IMPROVEMENTS	T.J.B.

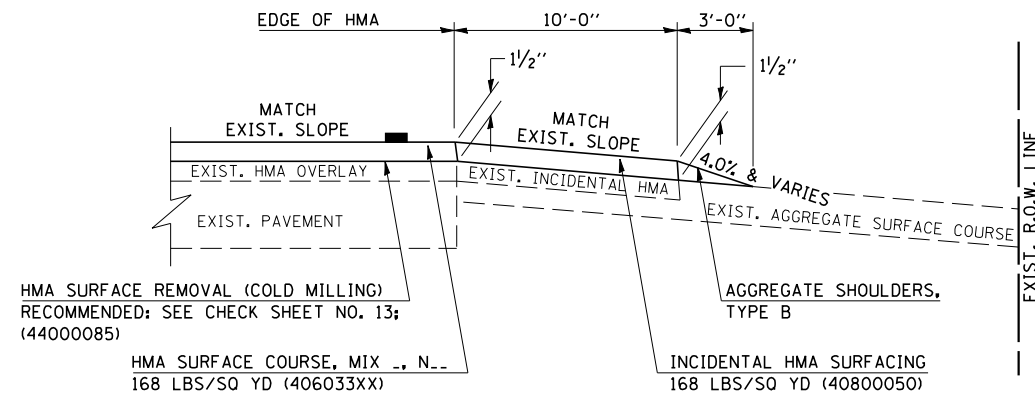
ILLINOIS DEPARTMENT OF TRANSPORTATION	
<b>MAILBOX TURNOUT (RURAL)</b>	
<b>DISTRICT 5 DETAIL NO. 40800050B</b>	

PLOT DATE = 11/16/2007  
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 USER NAME = collierb

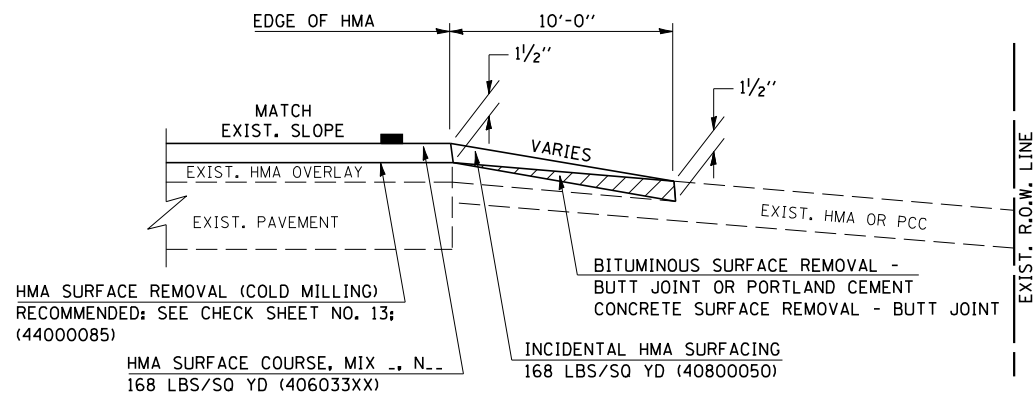
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	59

**PROJECTS WITHOUT RECONSTRUCTION**

**S.M.A.R.T. IMPROVEMENTS**  
(POLICY RESURFACING; BDE 53-4.03; 1/2")

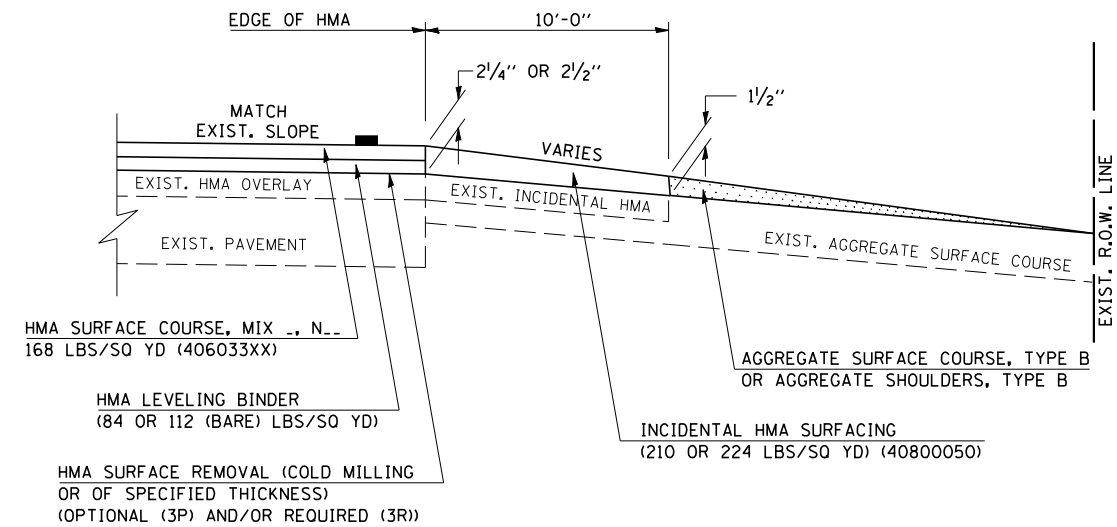


**EXISTING AGGREGATE ENTRANCE**

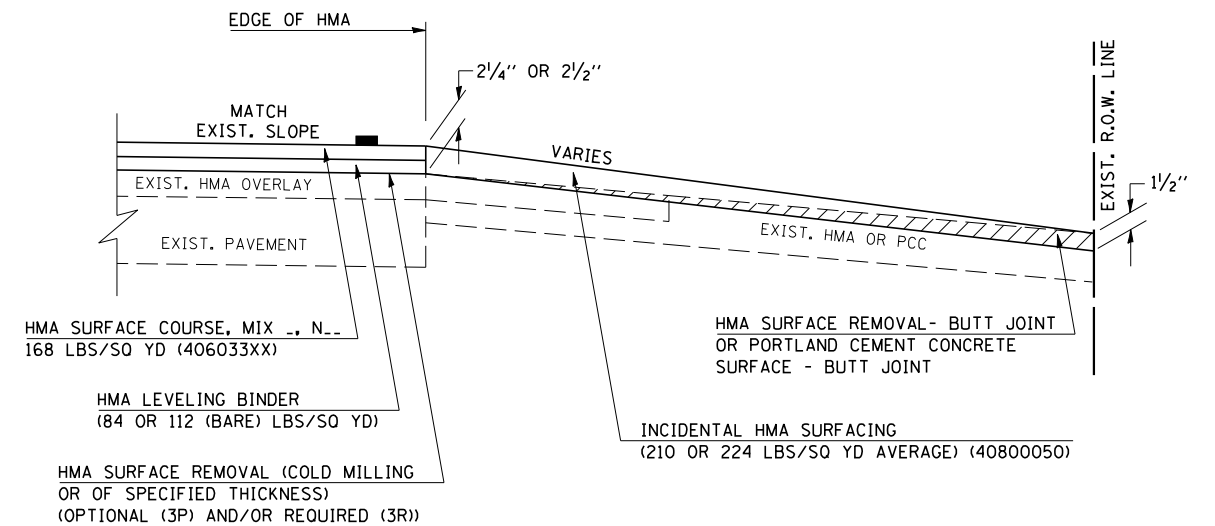


**EXISTING HMA OR PCC ENTRANCE**

**"3P" OR "3R" IMPROVEMENTS**  
(POLICY RESURFACING; BDE 53-4.02; 2/4" OR 2/2" ON BARE CONCRETE)



**EXISTING AGGREGATE ENTRANCE**



**EXISTING HMA OR PCC ENTRANCE**

Note: All dimensions are in INCHES  
(millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
09-21-07	VARIOUS CORRECTIONS	K.A.G.
12-08-06	RENUMBERED/COMBINED C-1.24 & C-1.33 WITH ADDITIONS OF S.M.A.R.T. & 3P & 3R IMPROV	T.J.B.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PRIVATE AND COMMERCIAL ENTRANCES**  
(NONCOMMERCIAL AND COMMERCIAL RURAL)

**DISTRICT 5 DETAIL NO. 40800050C**

PLOT DATE = 11/16/2007  
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PLOT SCALE = 4.23525 / IN.  
USER NAME = collierb

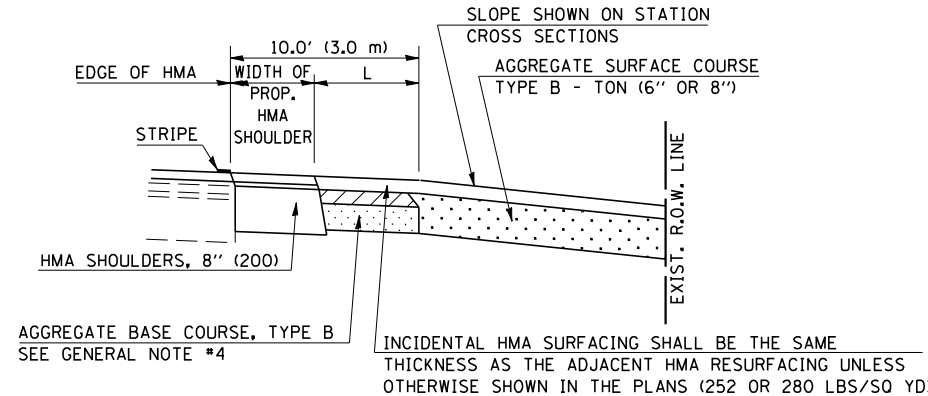
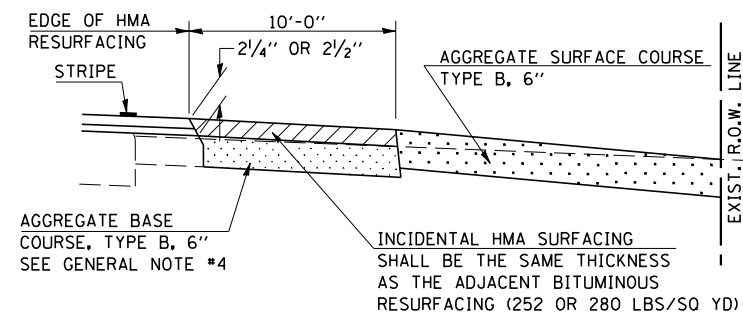
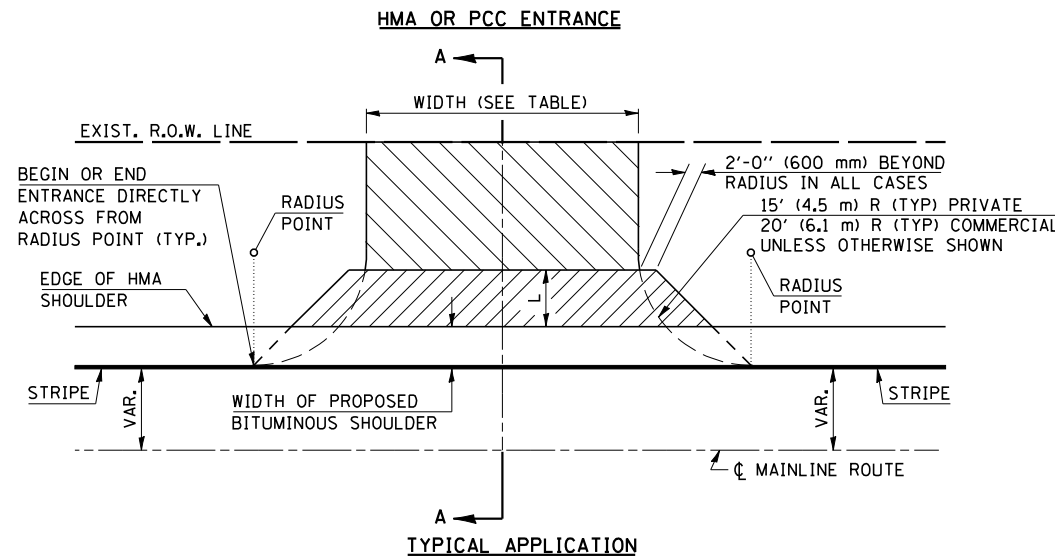
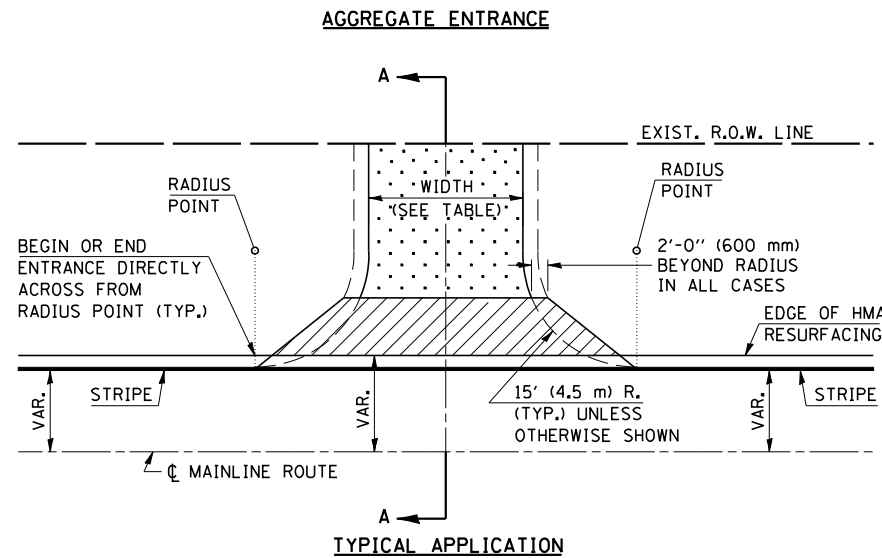
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	60

# PROJECTS WITH RECONSTRUCTION

( 3R IMPROVEMENTS )

## GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".
7. TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 AND 40-11 ALONG WITH DISTRICT CONSTRUCTION MEMORANDUM 03/14 DISCUSS THIS PROCEDURE.



RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)															
DESIGN ELEMENT	NEW CONSTRUCTION & 3R with RECONSTRUCTION						3R w/out RECONSTRUCTION, 3P, SMART & CM								
	NONCOMMERCIAL			FIELD W/ FARM IMPLEMENTS			COMMERCIAL			NONCOMMERCIAL			COMMERCIAL		
	PRIVATE & FIELD			min.		max.	min.		des.	max.	min.		des.	max.	
SURFACE WIDTH (FT)	12	16	24	24	30	1 LANE, 1 WAY			1 LANE, 1 WAY			1 LANE, 1 WAY			
							2 LANE, 2 WAY			2 LANE, 2 WAY			2 LANE, 2 WAY		
RADIUS (FT)	15	25	40	30		24	30	35	resurface existing configuration; existing hma or pcc entrances shall have "butt joints" constructed; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them						
SHOULDER WIDTH (FT)	2	2		2		1	3								
SHOULDER SLOPE (%)	2	4	6	4		2	4	6							
ENTRANCE GRADE (%)	0	2 to 5	10 or 12	2 to 5	10 or 12	0	2 to 5	8 or 10							
SIDE SLOPE (FT)	1:4	1:6	1:10	1:4	1:6	1:4	1:6	1:10							
<b>SURFACE TYPE</b>															
INCIDENTAL HMA SURFACING (INCH)		2		2		3 or 4			taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" for "butt joints" and to minimize aggregate shoulder						
AGGREGATE SURFACE COURSE, TYPE B (INCH)		6		6		8			if applicable use items: Preparation of Base & Aggregate Base Repair; see PPM 30-02						
PCC DRIVEWAY PAVEMENT (INCH)		6						6 or 8							

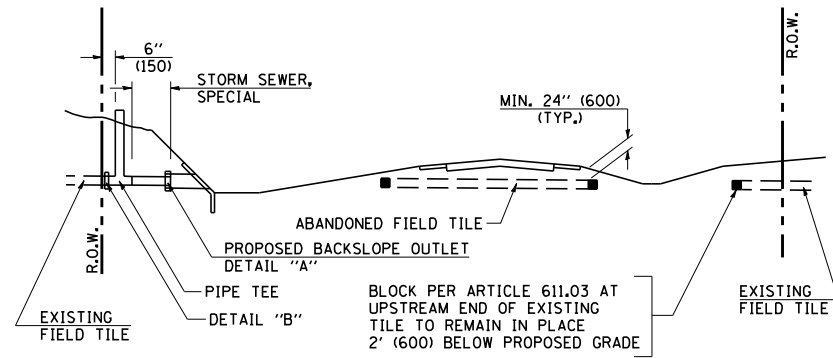
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
09-21-07	VARIOUS CORRECTIONS	K.A.G.	PRIVATE AND COMMERCIAL ENTRANCES (NONCOMMERCIAL AND COMMERCIAL RURAL)
12-08-06	RENUMBERED/COMBINED C-1.24 & C-1.33 WITH ADDITIONS OF S.M.A.R.T. & 3P & 3R IMPROV	T.J.B.	
			<b>DISTRICT 5 DETAIL NO. 40800050C</b>

PLOT DATE = 11/16/2007  
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 PLOT SCALE = 4.23524 / IN.  
 USER NAME = collierb

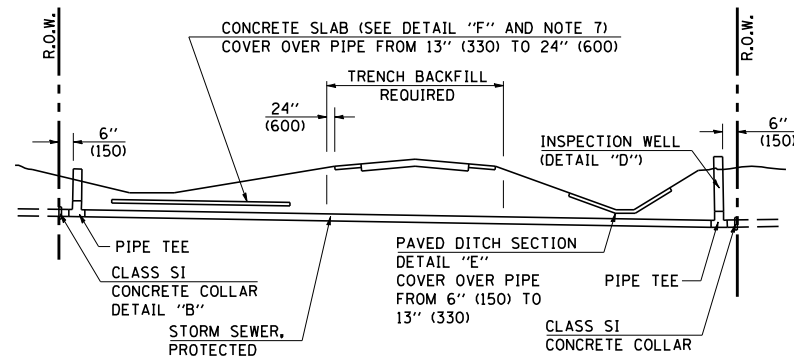


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	61



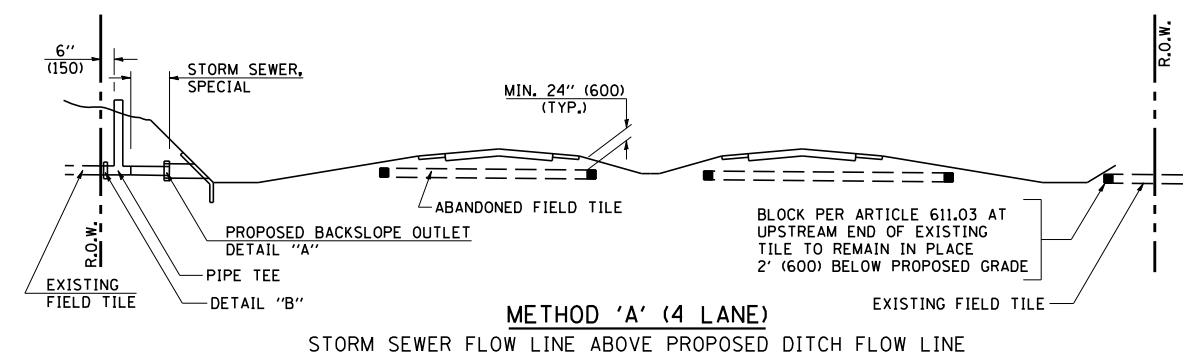
**METHOD 'A' (2 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



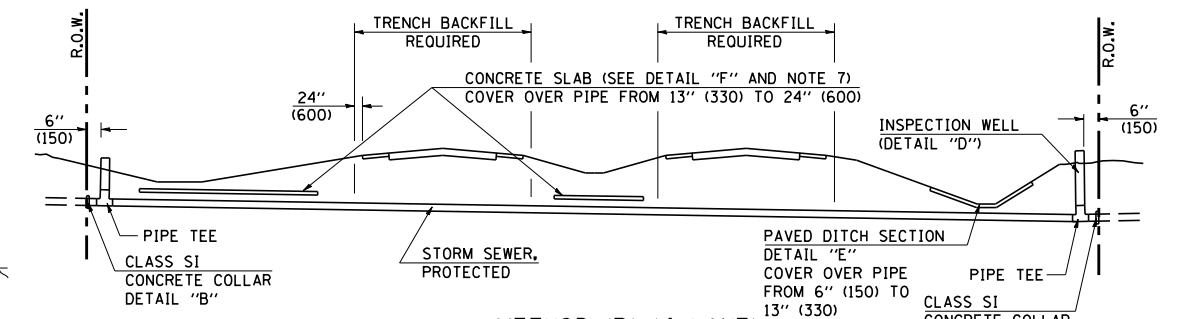
**METHOD 'B' (2 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



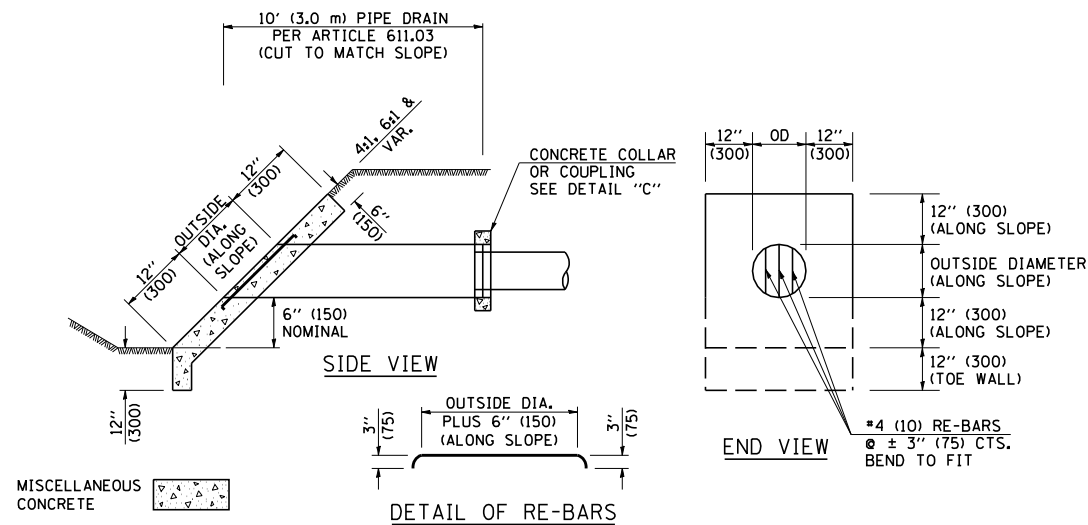
**METHOD 'A' (4 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



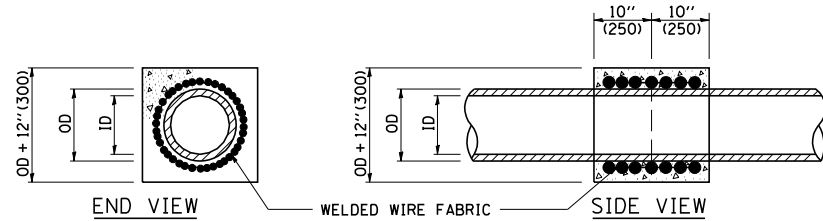
**METHOD 'B' (4 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



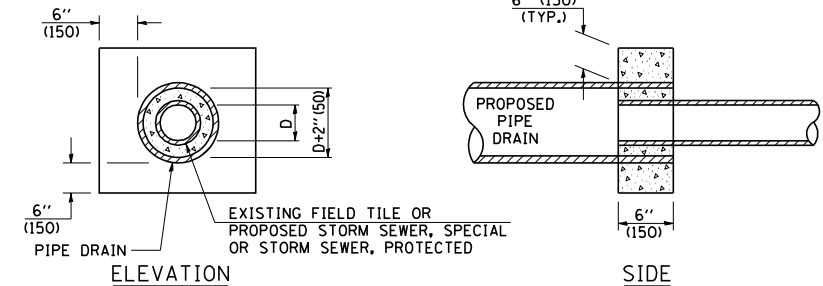
**HEADWALL FOR BACKSLOPE OUTLET**

DETAIL "A"



**CONCRETE COLLAR**

DETAIL "B"

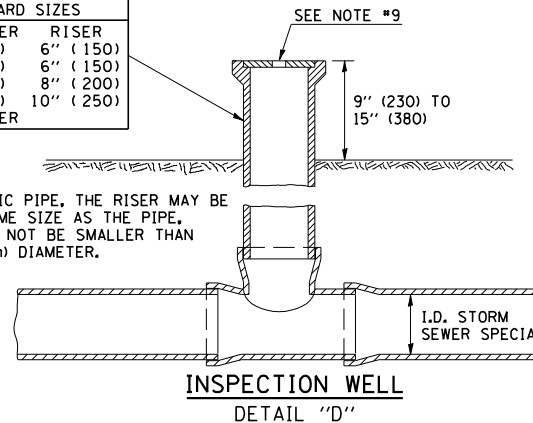


**CLASS SI COLLAR**

DETAIL "C"

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISE
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.

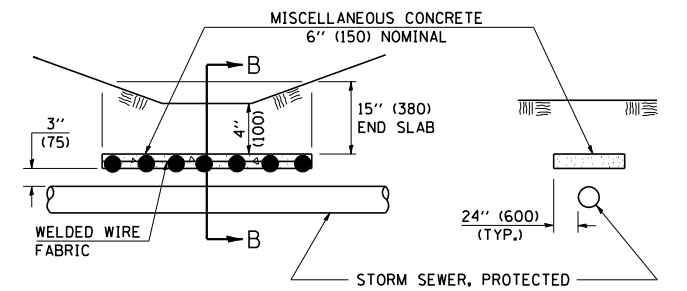


**INSPECTION WELL**

DETAIL "D"

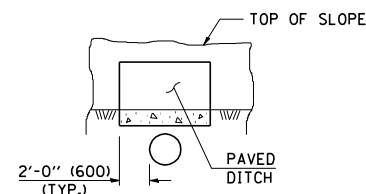
**GENERAL NOTES**

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



**SLAB ELEVATION**

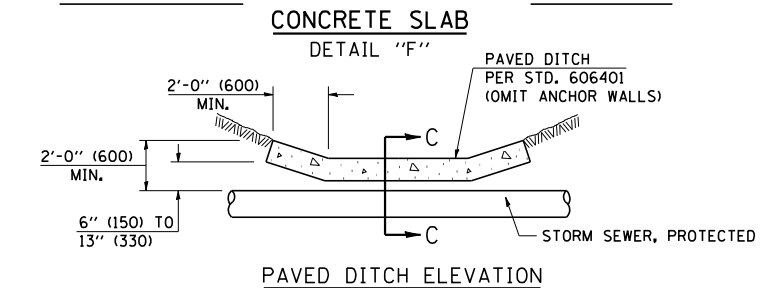
**SECTION B-B**



**SECTION C-C**

**PAVED DITCH**

DETAIL "E"

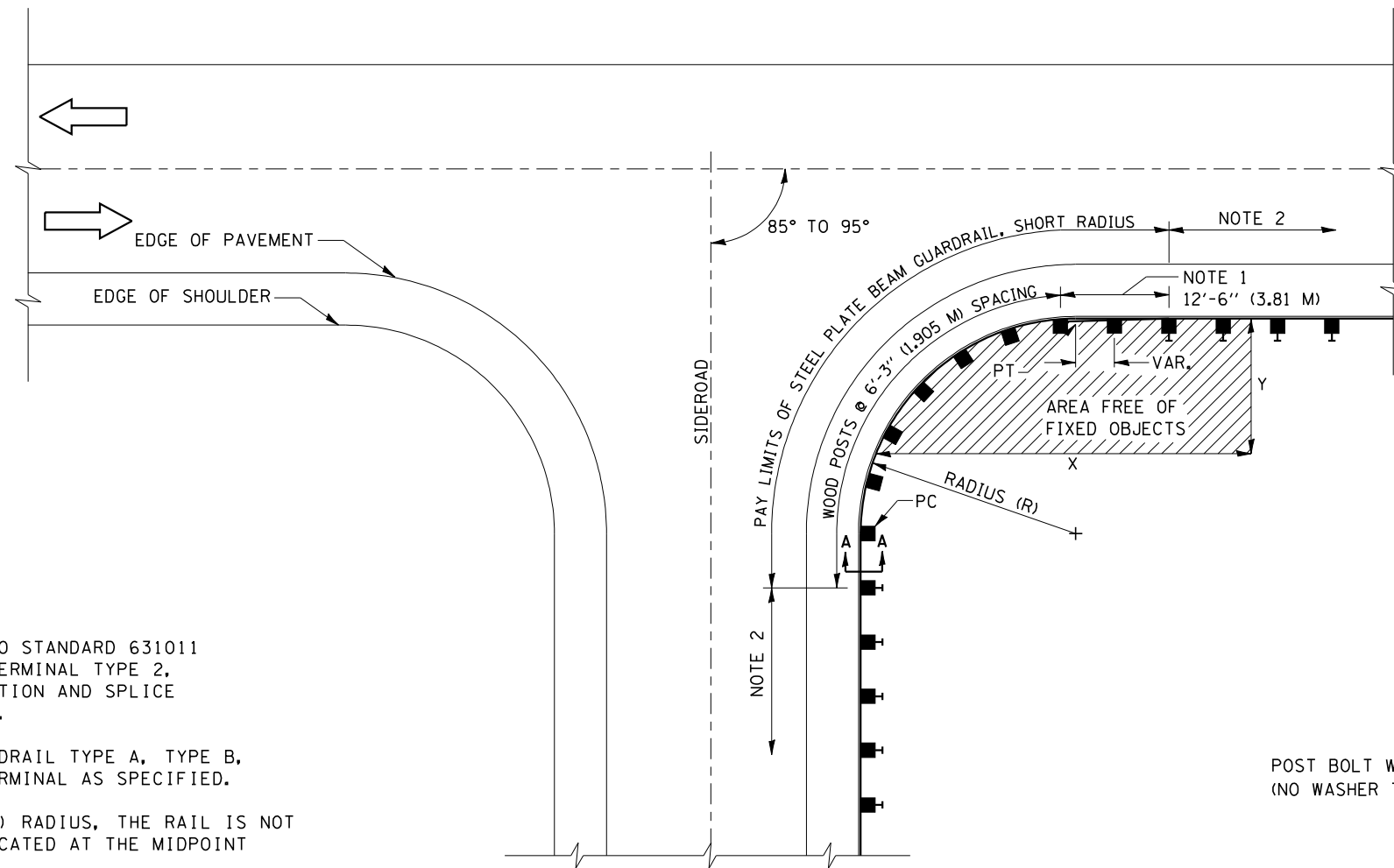


**PAVED DITCH ELEVATION**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL A-18.02	TJB	<b>FIELD TILE SYSTEMS (TREATMENT OF EXISTING)</b>
			<b>DISTRICT 5 DETAIL NO. 61101011A</b>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	62



PLAN

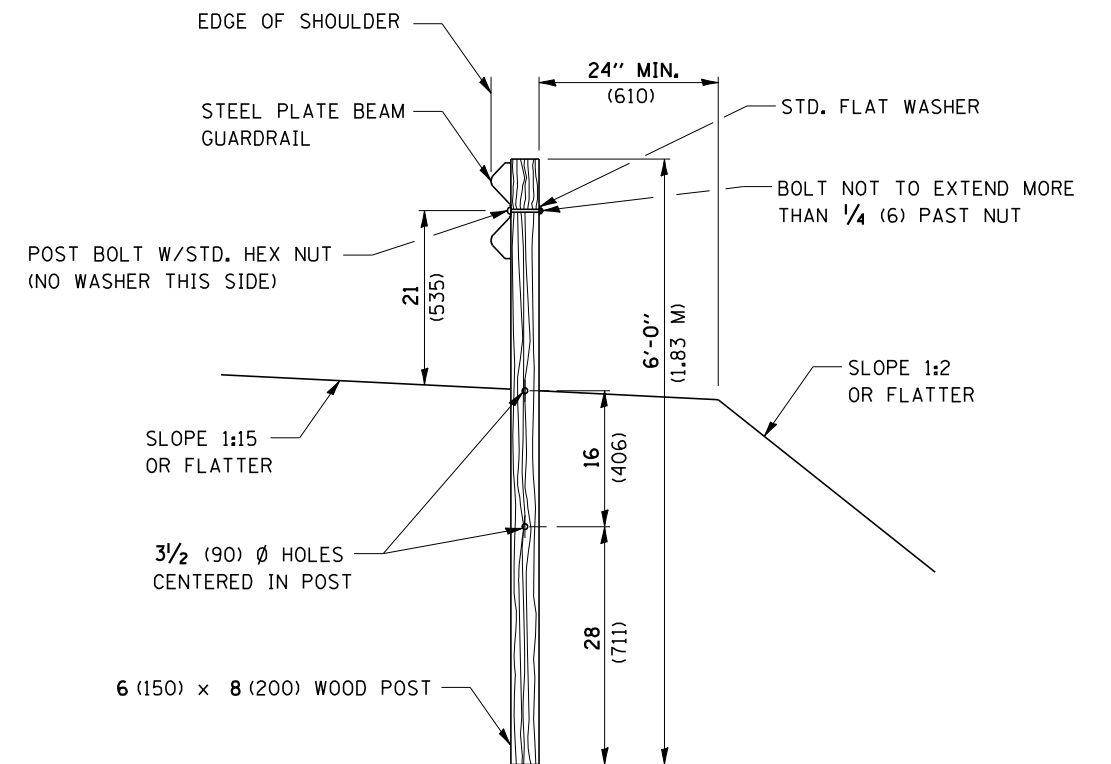
**NOTES**

1. CONSTRUCT ACCORDING TO STANDARD 631011 FOR TRAFFIC BARRIER TERMINAL TYPE 2, EXCEPT DELETE END SECTION AND SPLICE INTO RADIUS GUARDRAIL.
2. STEEL PLATE BEAM GUARDRAIL TYPE A, TYPE B, OR TRAFFIC BARRIER TERMINAL AS SPECIFIED.
3. FOR THE 8'-6" (2.59 M) RADIUS, THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.

**GENERAL NOTES**

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

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



SECTION A-A

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
8'-6" (2.59)	5 (NOTE 3)	25' (7.6 m)	15' (4.6)
17'-0" (5.18)	6	30' (9.1 m)	15' (4.6)
25'-6" (7.77)	8	40' (12.2 m)	20' (6.1)
35'-0" (10.67)	11	50' (15.2 m)	20' (6.1)

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION

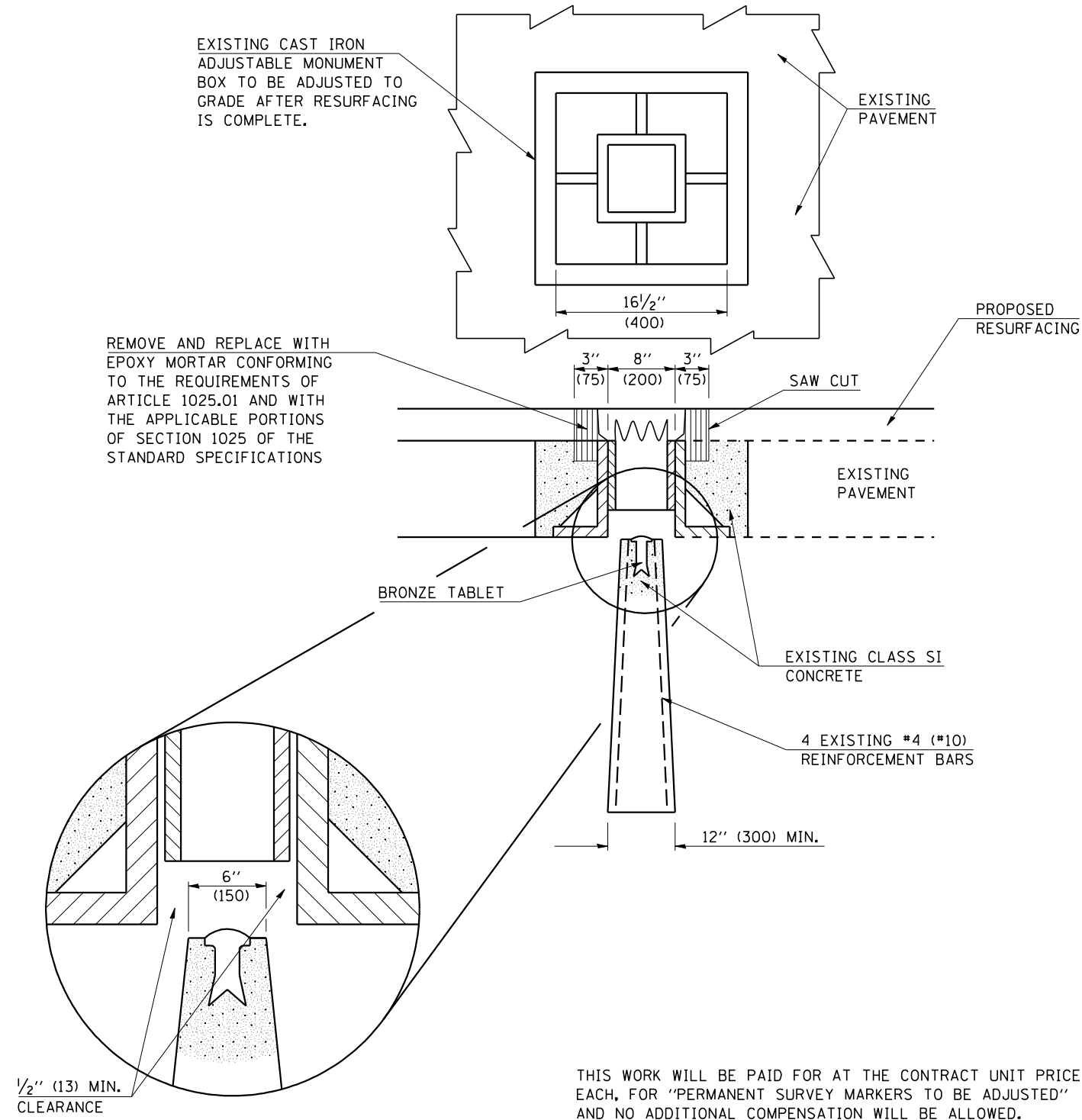
**STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS**  
**DISTRICT 5 DETAIL NO. 63300725**

PLOT DATE = 11/16/2007  
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 PLOT SCALE = 42.3525 / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	63

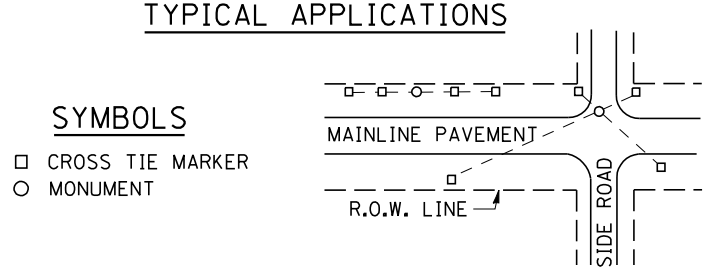
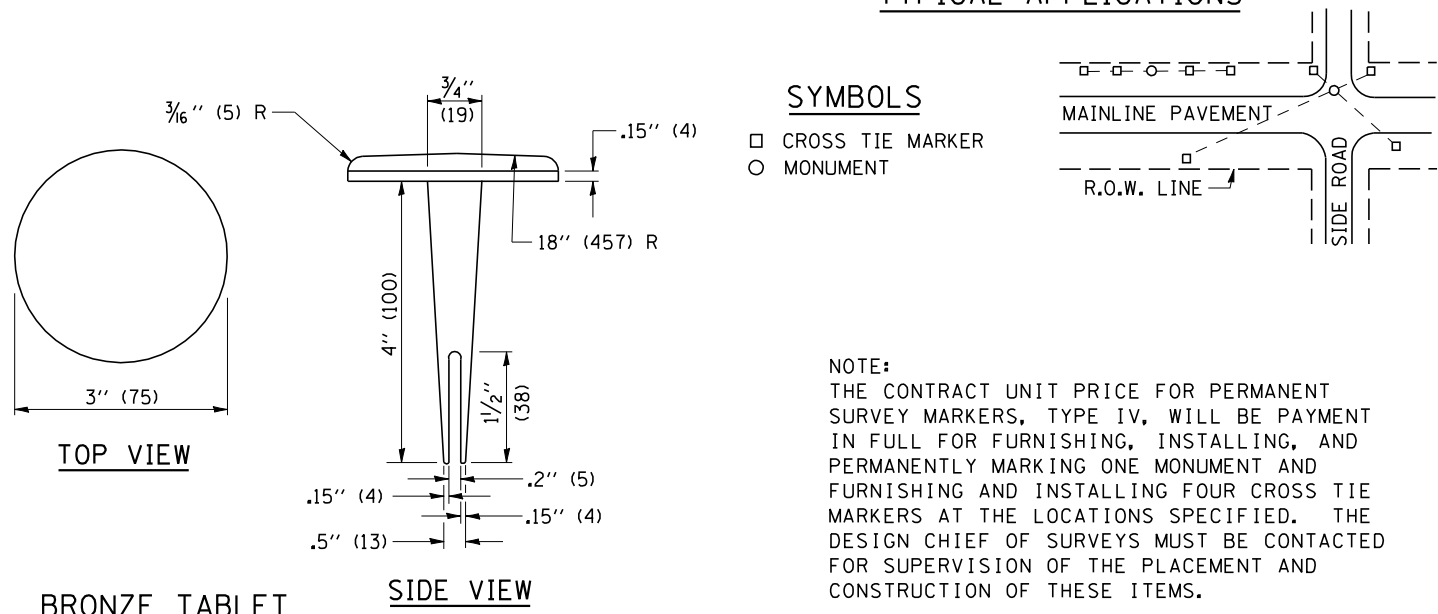
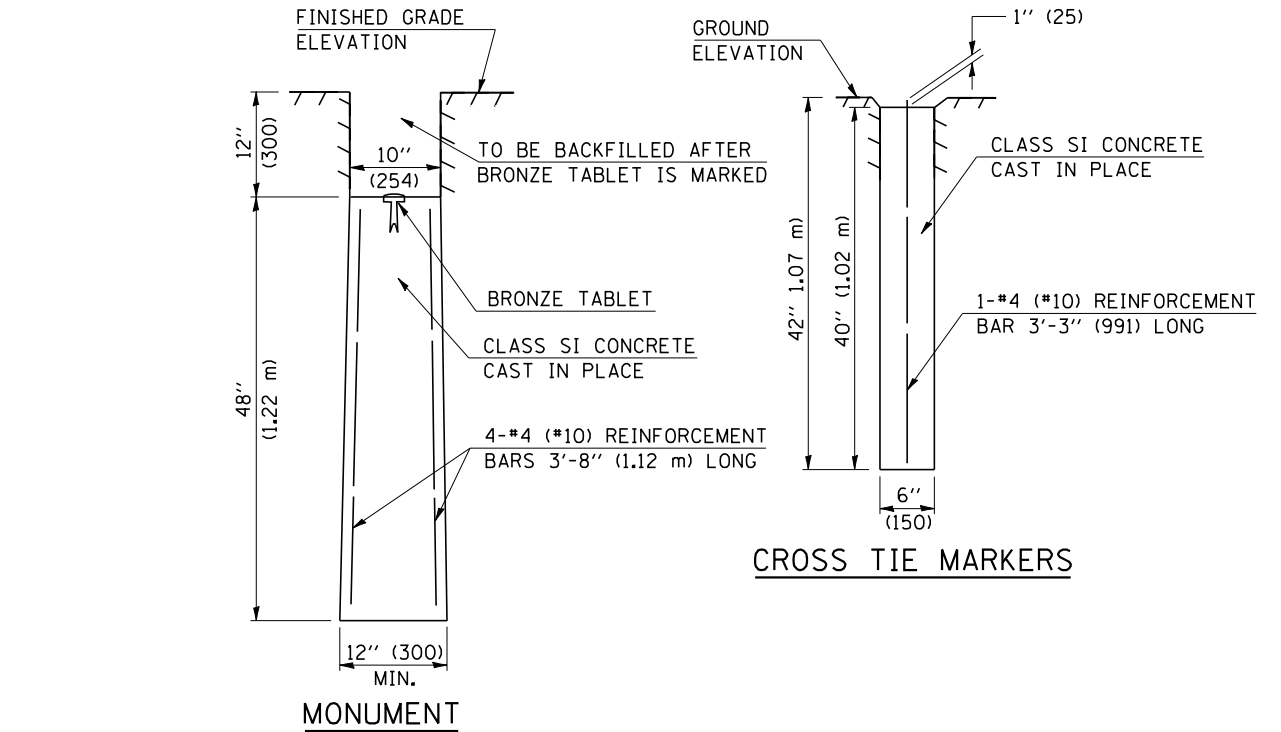
### 66700110 – PERMANENT SURVEY MARKERS TO BE ADJUSTED

TO BE INSTALLED FOR PRESERVING EXISTING CAST IRON PERMANENT SURVEY MARKERS, TYPE III



### 66700505 – PERMANENT SURVEY MARKERS, TYPE IV

TO BE INSTALLED IN PAVEMENT OR TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS) UNDER DIRECTION OF THE CHIEF OF SURVEYS



DATE	REVISIONS	NAME
11/06	REPLACED DETAILS D-1.02 & d-1.06	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PERMANENT SURVEY MARKERS (TYPE IV & ADJUSTED)**  
DISTRICT 5 DETAIL NO. 66700AAA

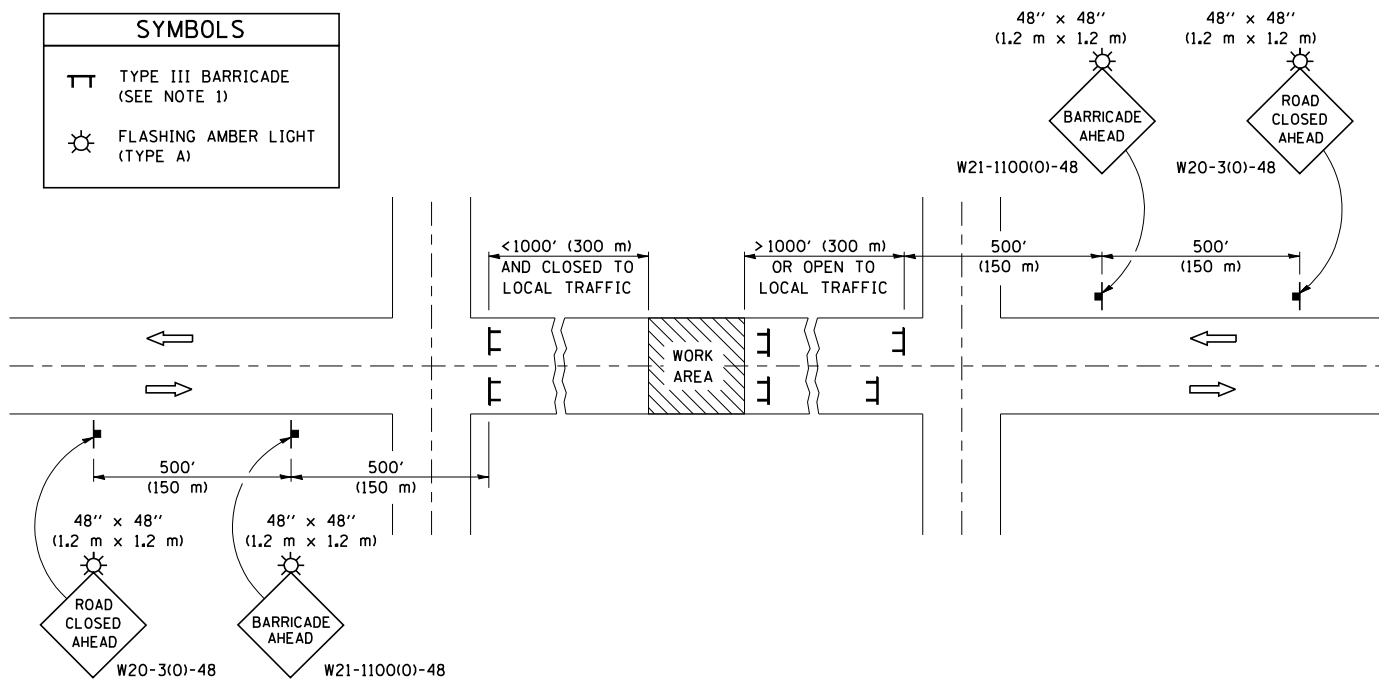
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 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	64

## ROAD CLOSURE

## SIDEROAD / STREET CLOSURE

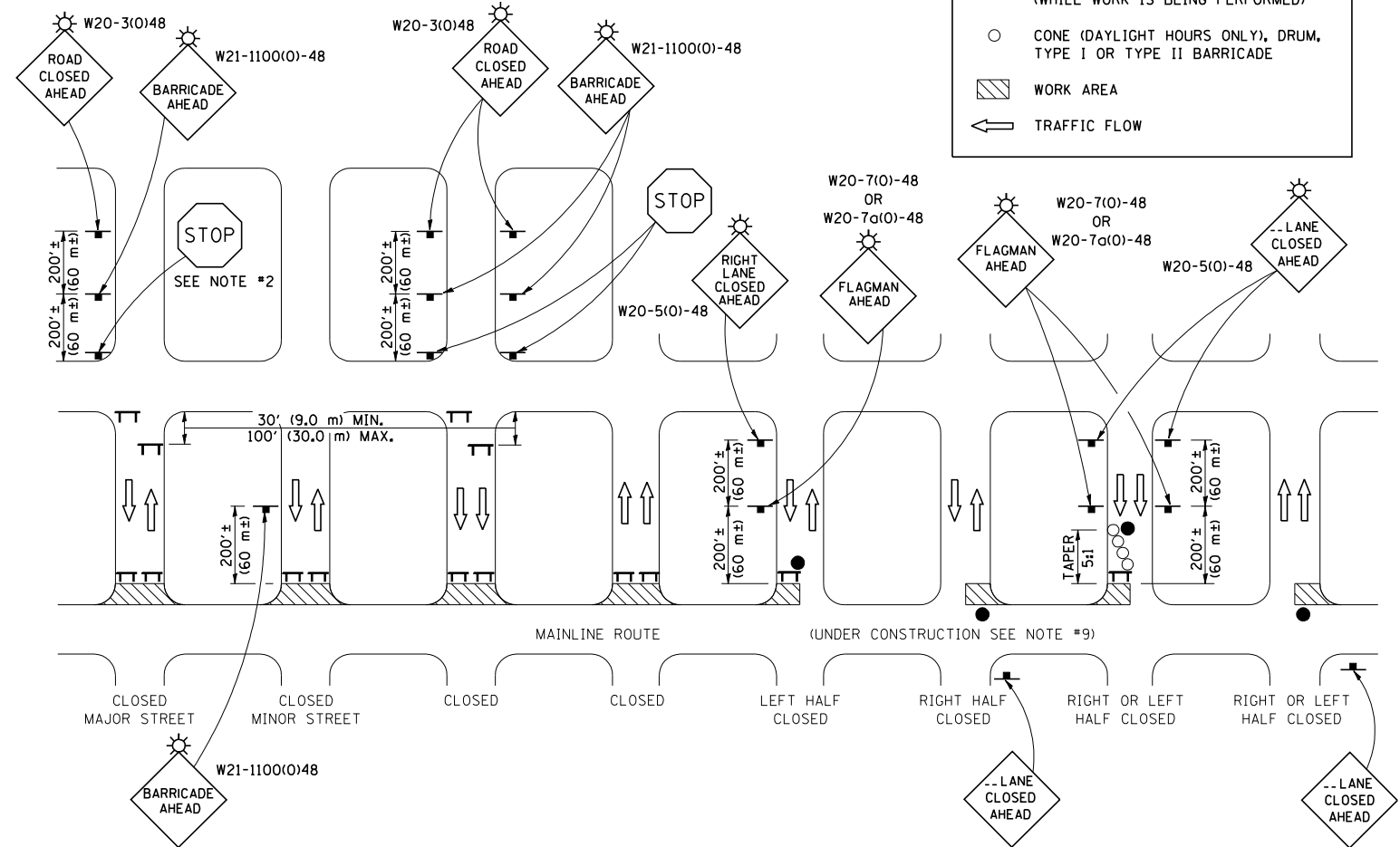
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



### GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 702001 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 702001 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



### GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 702001 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS INVOLVING THE RECONSTRUCTION OF ALL APPLICABLE SIDE STREETS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

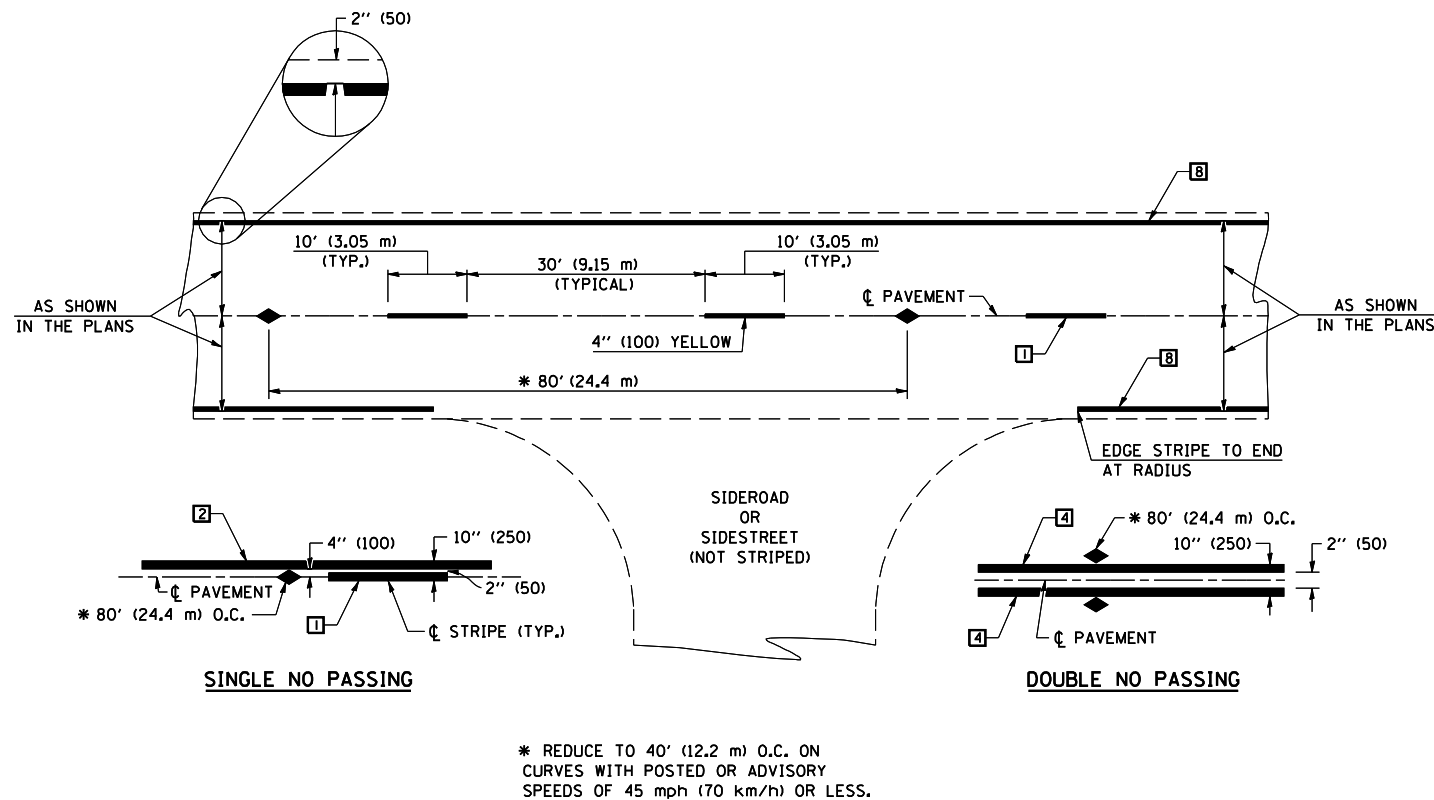
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
08/07	TITLE CHANGE	KAG
11/06	REPLACED DETAILS F-5.03 & F-5.04	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL & PROTECTION DEVICES**  
 (ROAD & SIDEROAD/STREET CLOSURES)  
**DISTRICT 5 DETAIL NO. 7020000**

PLOT DATE = 11/16/2007  
 FILE NAME = c:\projects\45955800 (v8)\rev.plamhats.dgn  
 PLOT SCALE = 42.3525' / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	65



\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

**TWO LANE/TWO WAY**

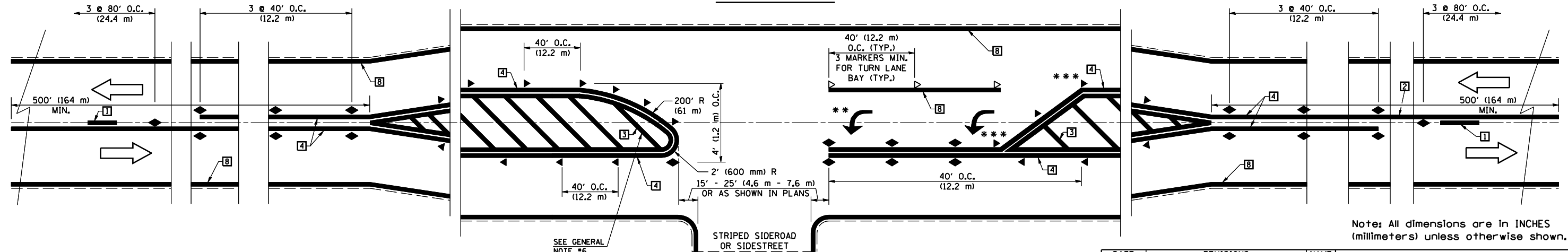
**TYPICAL PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

**RURAL LEFT TURN**



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

\*\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

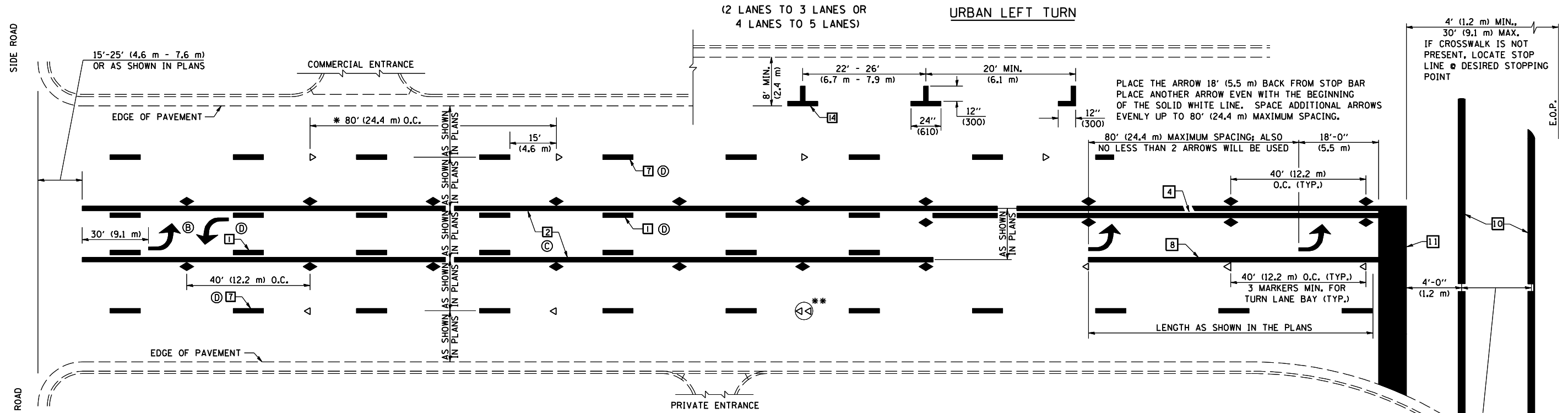
\*\* TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

DATE	REVISIONS	NAME
11/06	REPLACED DETAIL F-5.25	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)**  
**DISTRICT 5 DETAIL NO. 7800AAAA**

PLOT DATE = 11/16/2007  
 FILE NAME = c:\projects\45955800 (v8)\rev.plamhats.dgn  
 PLOT SCALE = 42,352% / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	66

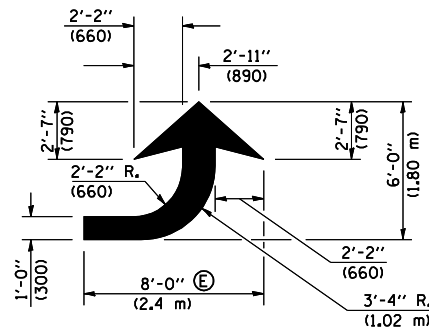


\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

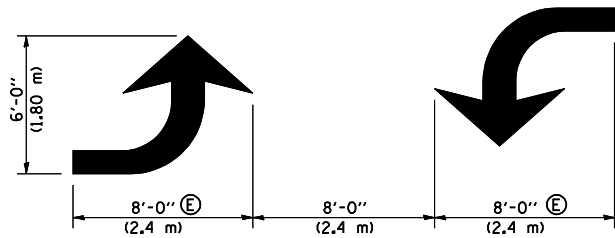
**NOTES:**

- Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- Ⓔ TURN ARROW SIZE DEPENDS ON THE LOCATION. RURAL LOCATION - LARGE ARROW SIZE URBAN LOCATION - SMALL ARROW SIZE



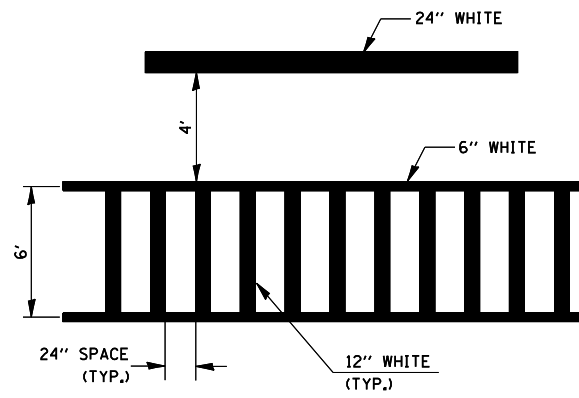
**LEFT ARROW**

REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)

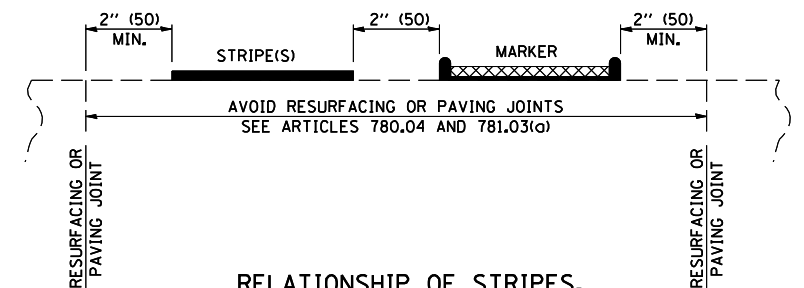


**TYPICAL DOUBLE TURN ARROWS (WHITE)**

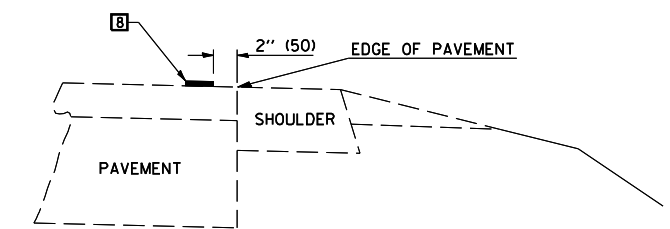
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



**TYPICAL SPACING FOR CROSSWALKS & STOP BARS**



**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**



**RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT**  
(SAFETY SHOULDER OR PAVED SURFACE)  
SEE ARTICLE 780.04

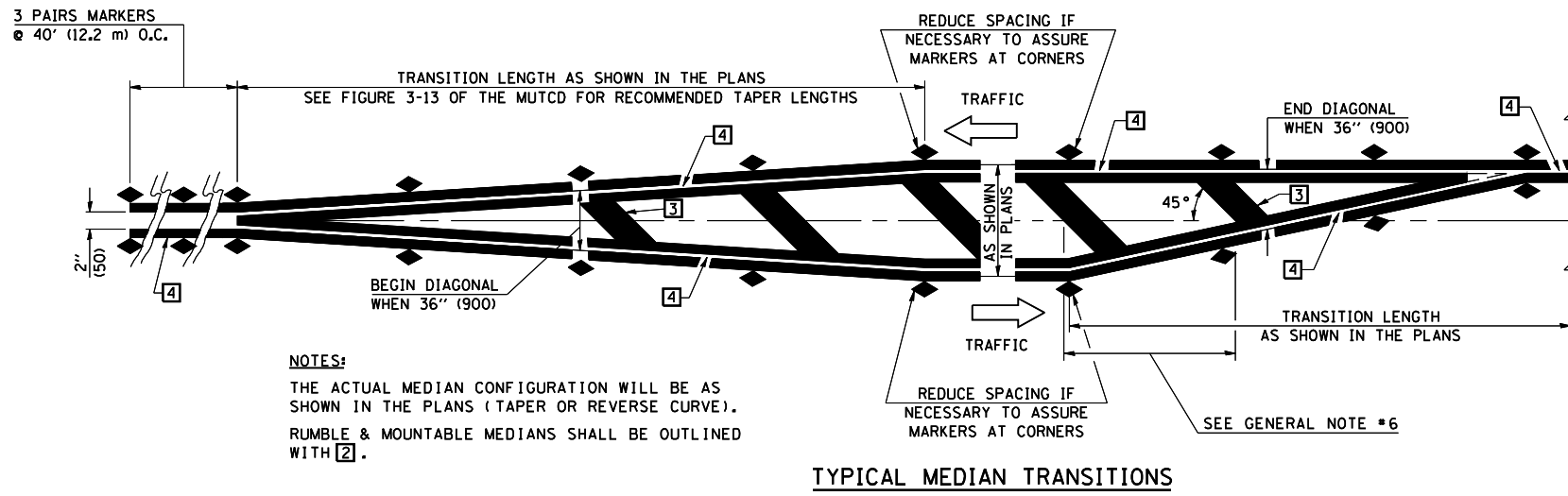
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
11/06	REPLACED DETAIL F-5.25	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)**  
**DISTRICT 5 DETAIL NO. 7800AAA**

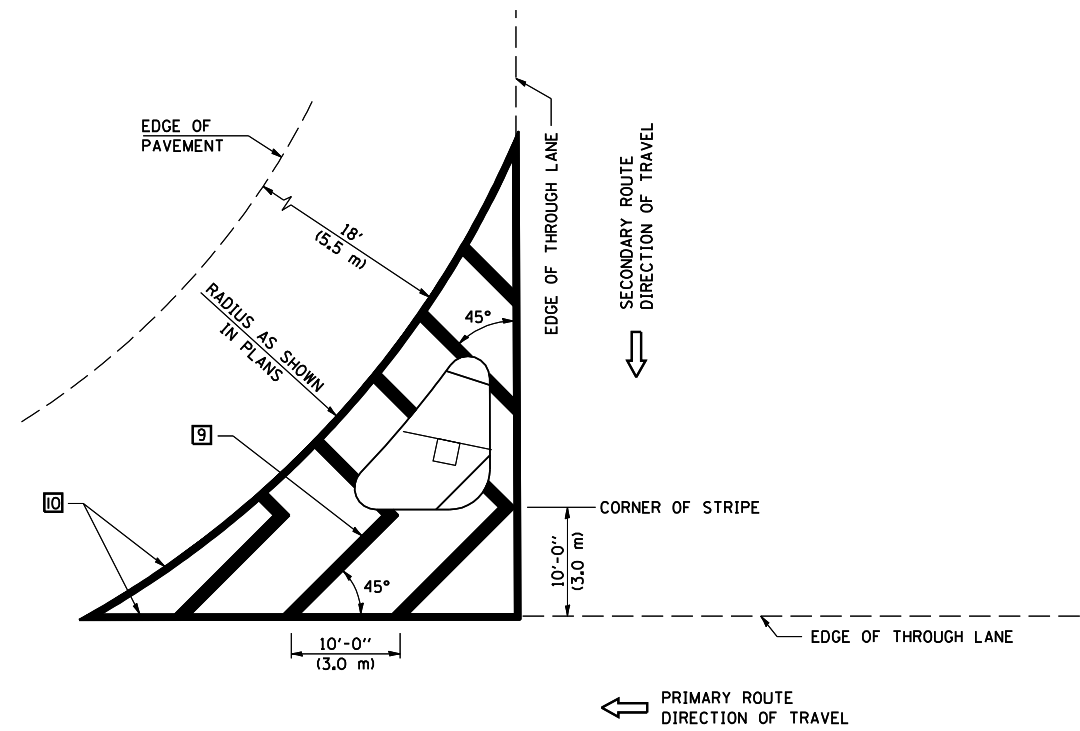
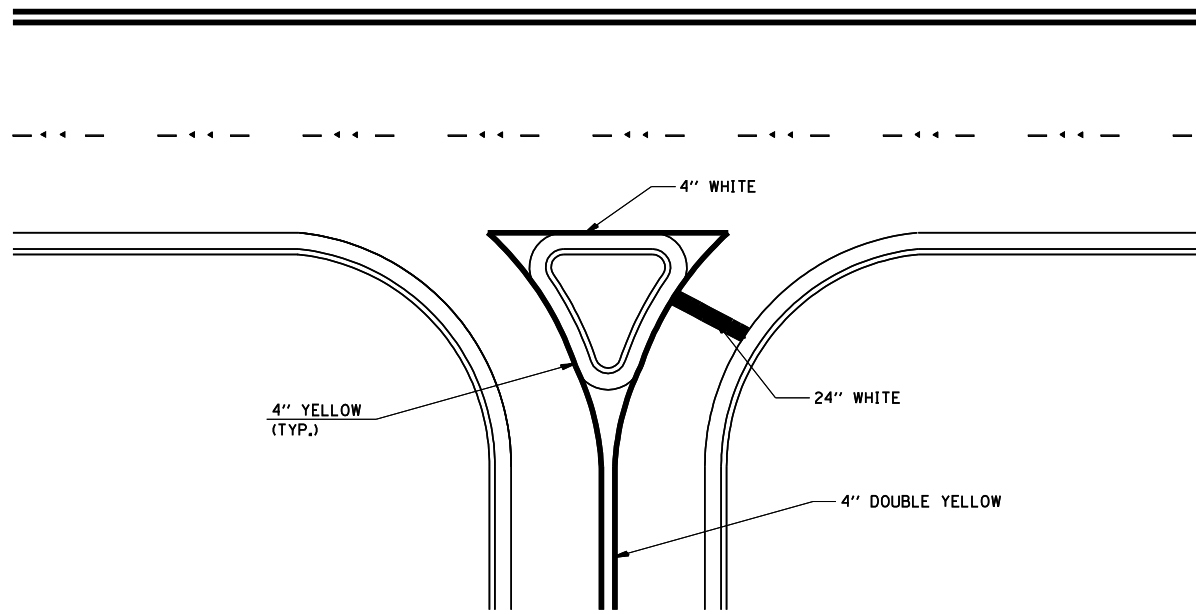
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 PLOT SCALE = 42.3524 / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	67



**GENERAL NOTES**

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,  
< 30 MPH USE 15' (< 50 km/h USE 4.5 m)  
30-45 MPH USE 20' (50-75 km/h USE 6.0 m)  
> 45 MPH USE 30' (> 75 km/h USE 9.0 m)



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
11/06	REPLACED DETAIL F-5.25	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)**

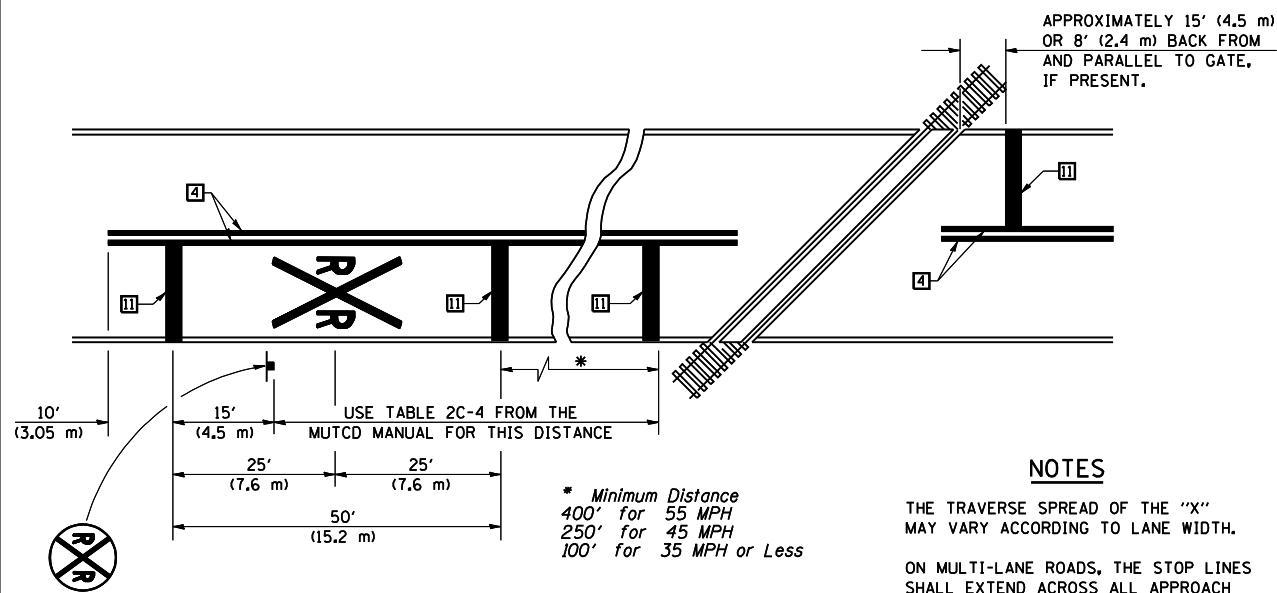
**DISTRICT 5 DETAIL NO. 7800AAAA**

PLOT DATE = 11/16/2007  
FILE NAME = c:\projects\45955800 (v8)\rev.plamhats.dgn  
PLOT SCALE = 42,352% / IN.  
USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	68

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



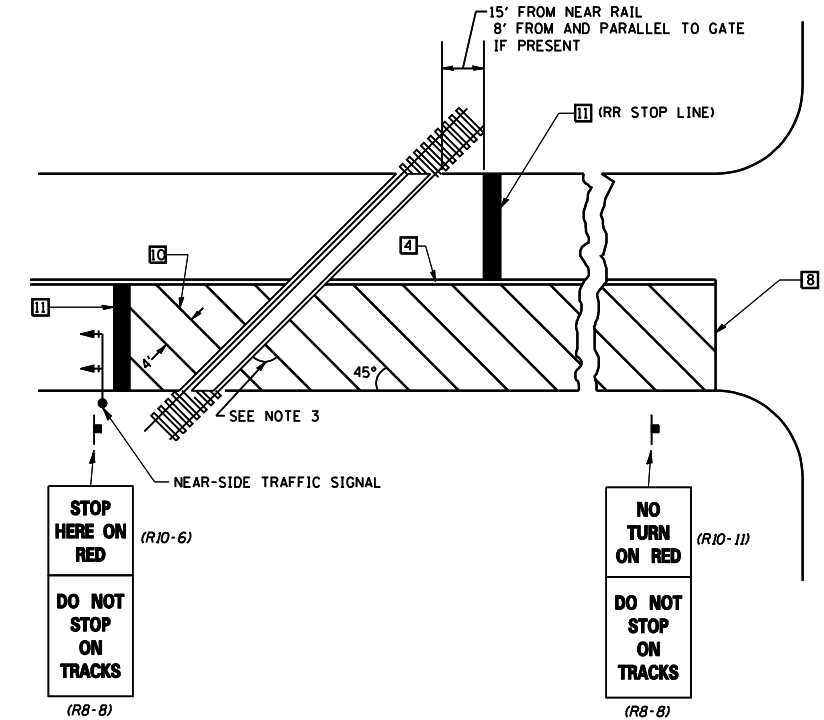
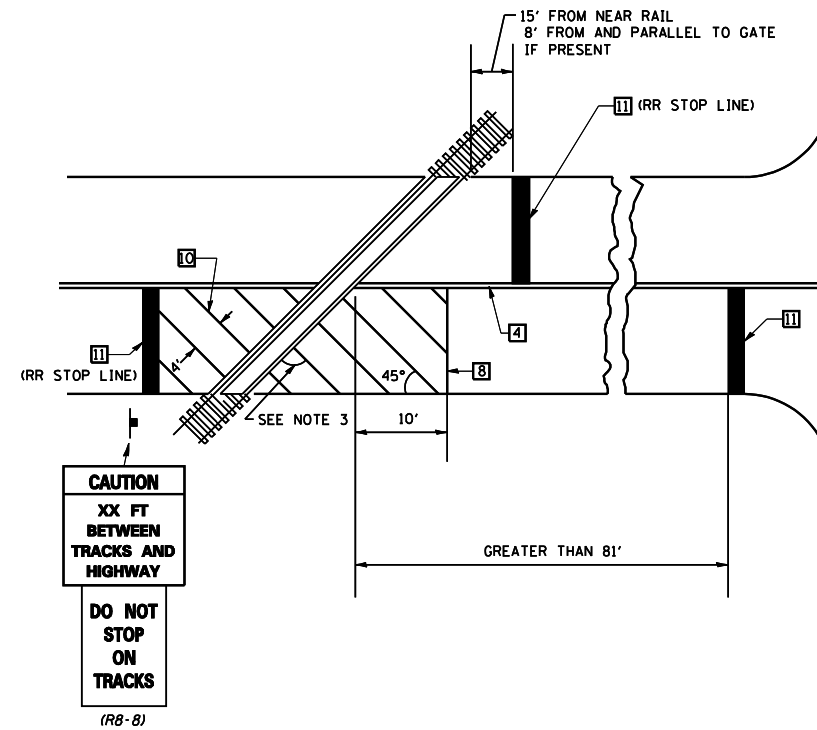
PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



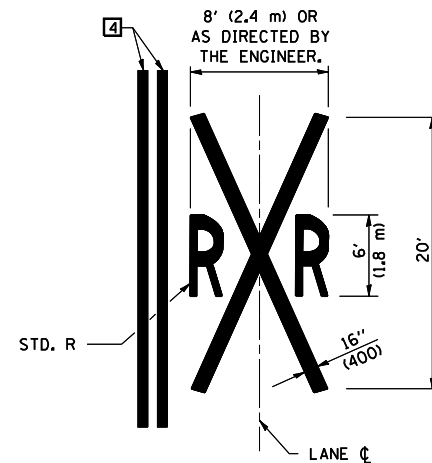
SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOTES

SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.

EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
11/06	REPLACED DETAIL F-5.25	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

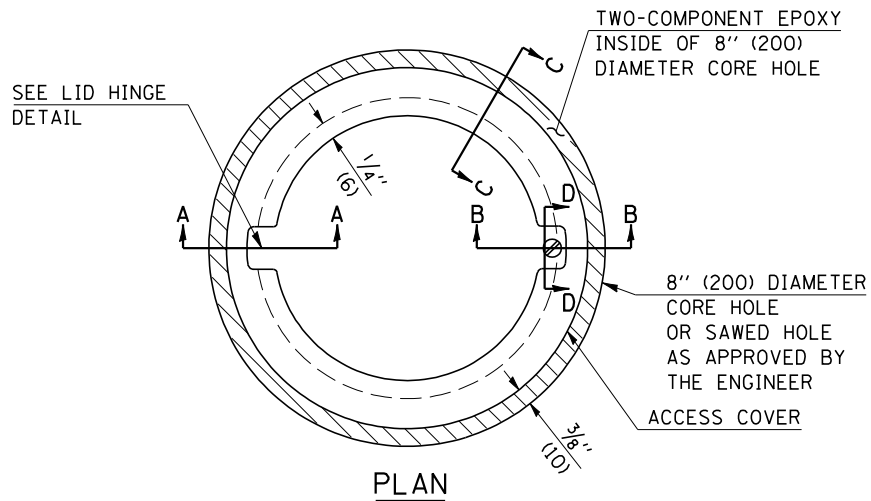
DISTRICT 5 DETAIL NO. 7800AAAA

PLOT DATE = 11/16/2007  
 FILE NAME = c:\projects\45955800 (v8)\rev.plamhats.dgn  
 PLOT SCALE = 42,352% / IN.  
 USER NAME = collierb



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121.122)RS-3	VERMILION	89	69

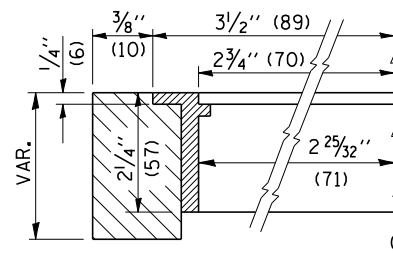
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)



**LEGEND**

- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY

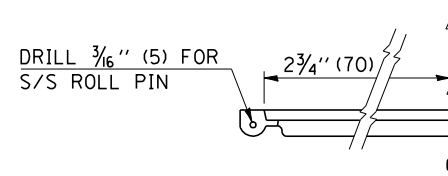
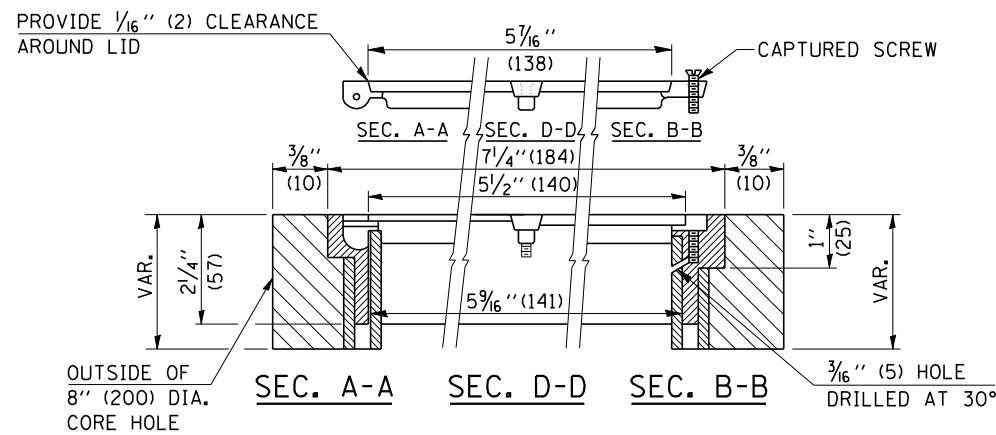
T = THICKNESS OF PAVEMENT STRUCTURE  
 H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)



SECTION C-C

SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; 00-A-601Es. NO EXCEPTIONS.

RE-BAR-SURVEY MARKER, TYPE I, (SPECIAL) TO BE FURNISHED BY THE CONTRACTOR AND SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR (SEE SPECIAL DETAIL SHEET FOR ALUMINUM TABLET AND RE-BAR SPECIFICATIONS).



LID HINGE DETAIL

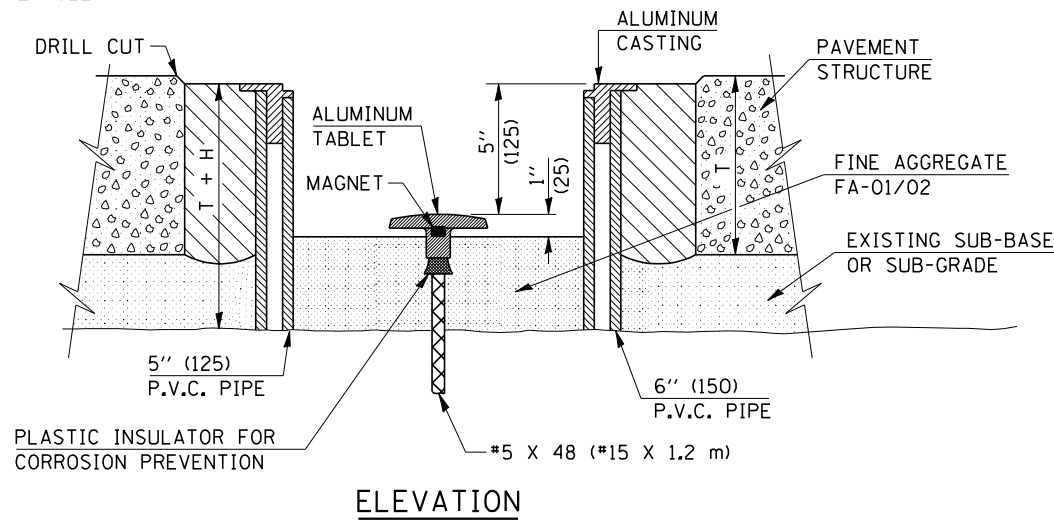
**BILL OF MATERIAL**

ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 667101. 5/8" X 48" (#15 X 1.2 m ) RE-BAR, EPOXY AND FA-01/02 AGGREGATE.

**GENERAL NOTES**

- ALUMINUM CASTING SHALL BE EITHER PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE.
- BACKFILL WITH FINE AGGREGATE - FA-01/02.
- WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MARKER VAULT WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING, EPOXY AND FA-01/02 AGGREGATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
- ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
- THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

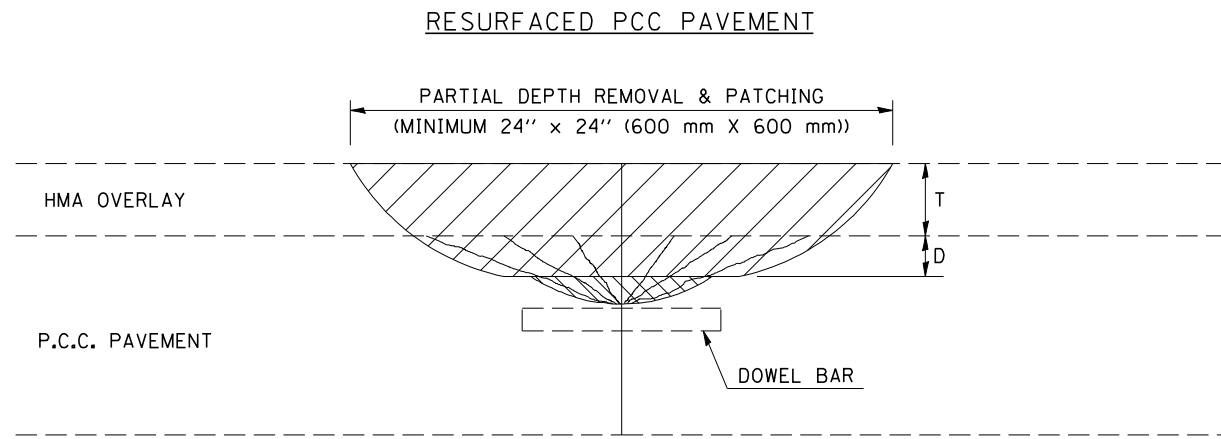




ELEVATION

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL D-1.04	TJB	<b>SURVEY MARKER VAULT</b>
			<b>DISTRICT 5 DETAIL NO. X0301232</b>

PLOT DATE = 11/16/2007  
 FILE NAME = c:\projects\5055800 (v8)\rev.plamhats.dgn  
 PLOT SCALE = 42.3525 / IN.  
 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	70



 +  = PARTIAL DEPTH REMOVAL (X4401705)  
 MILL MACHINE AND/OR WHEEL SAW REMOVAL      AIR EQUIPMENT OR MECHANICAL SWEEPER REMOVAL OF LOOSE AND/OR UNSOUND CONCRETE

**DESIGN NOTES**

PARTIAL DEPTH HMA PATCHING SHALL NOT BE USED WHEN HMA OVERLAY THICKNESS (T) ON PCC PAVEMENT EXCEEDS 4 3/4 INCHES (145 mm) OR ON CRC PAVEMENT.

**GENERAL NOTES**

ALL VOLUME OF PARTIAL DEPTH REMOVAL SHALL BE REPLACED WITH HOT-MIX ASPHALT (HMA) AND PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR PARTIAL DEPTH PATCHING.

T = THICKNESS OF HMA OVERLAY(S). SEE EXISTING TYPICAL CROSS SECTION.

GENERAL NOTE 406H SHALL INCLUDE MIXTURE REQUIREMENTS FOR PARTIAL DEPTH PATCHING.

HMA REPLACEMENT IN RESURFACED PCC PAVEMENT LOCATIONS SHALL BE ACCORDING TO SECTION 406 OF THE STANDARD SPECIFICATIONS.

D = DEPTH OF PARTIAL DEPTH REMOVAL INTO EXISTING PCC PAVEMENT. (3" (75 mm) ± OR TO SOUND CONCRETE)

TRANSVERSE CONTRACTION JOINT SHOWN - OTHER LOCATIONS SIMILAR.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**NOTE:**  
 DUE TO THE EXISTING OVERLAY THICKNESS OF 7 1/2", PARTIAL DEPTH PATCHING DEPTHS WILL EXCEED 4 3/4 INCHES. THE PATCH SHALL BE PLACED IN 2 LIFTS. THIS WORK WILL BE MEASURED IN TONS AND PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR PARTIAL DEPTH PATCHING.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL C-5.01	TJB	<b>PCC PARTIAL DEPTH HOT-MIX ASPHALT PATCHING</b>
			<b>DISTRICT 5 DETAIL NO. XX442100</b>

PLOT DATE = 11/16/2007  
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 USER NAME = collierb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	71
STA. 849+50.00		TO STA. 850+16.10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

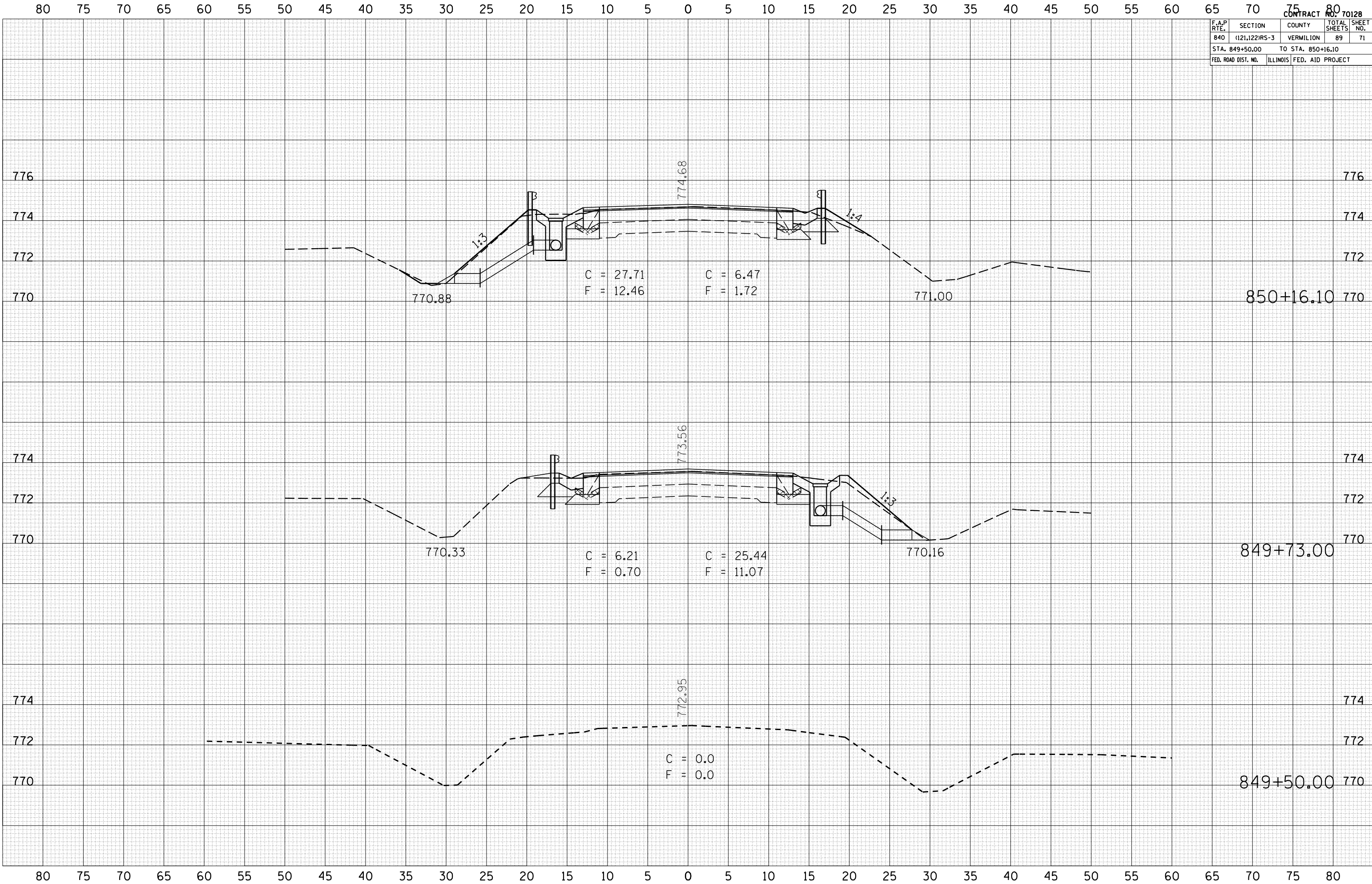
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BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE	AREAS CHECKED

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 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = collier-b



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	72
STA. 850+25.00		TO STA. 850+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

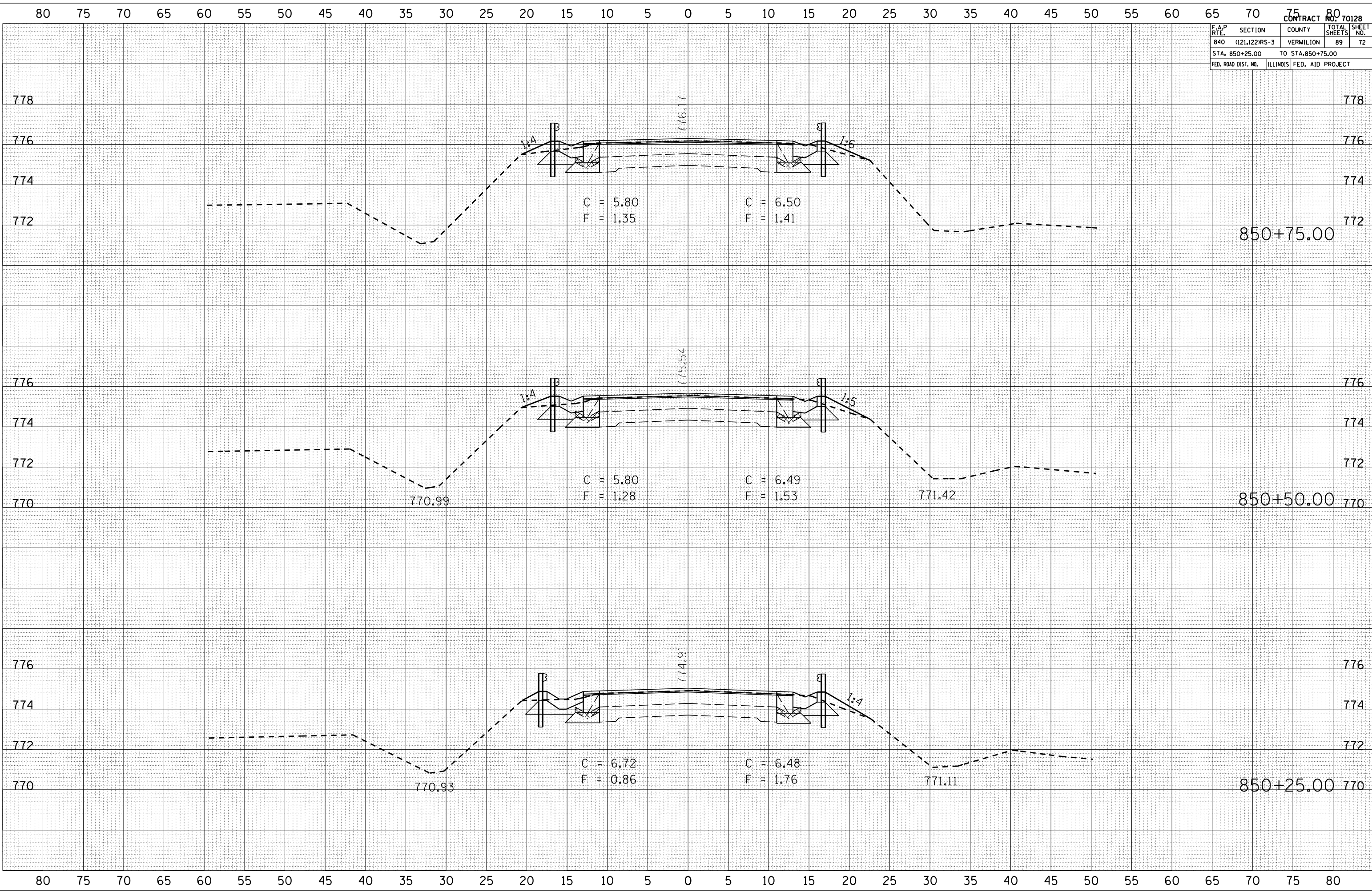
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	73
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

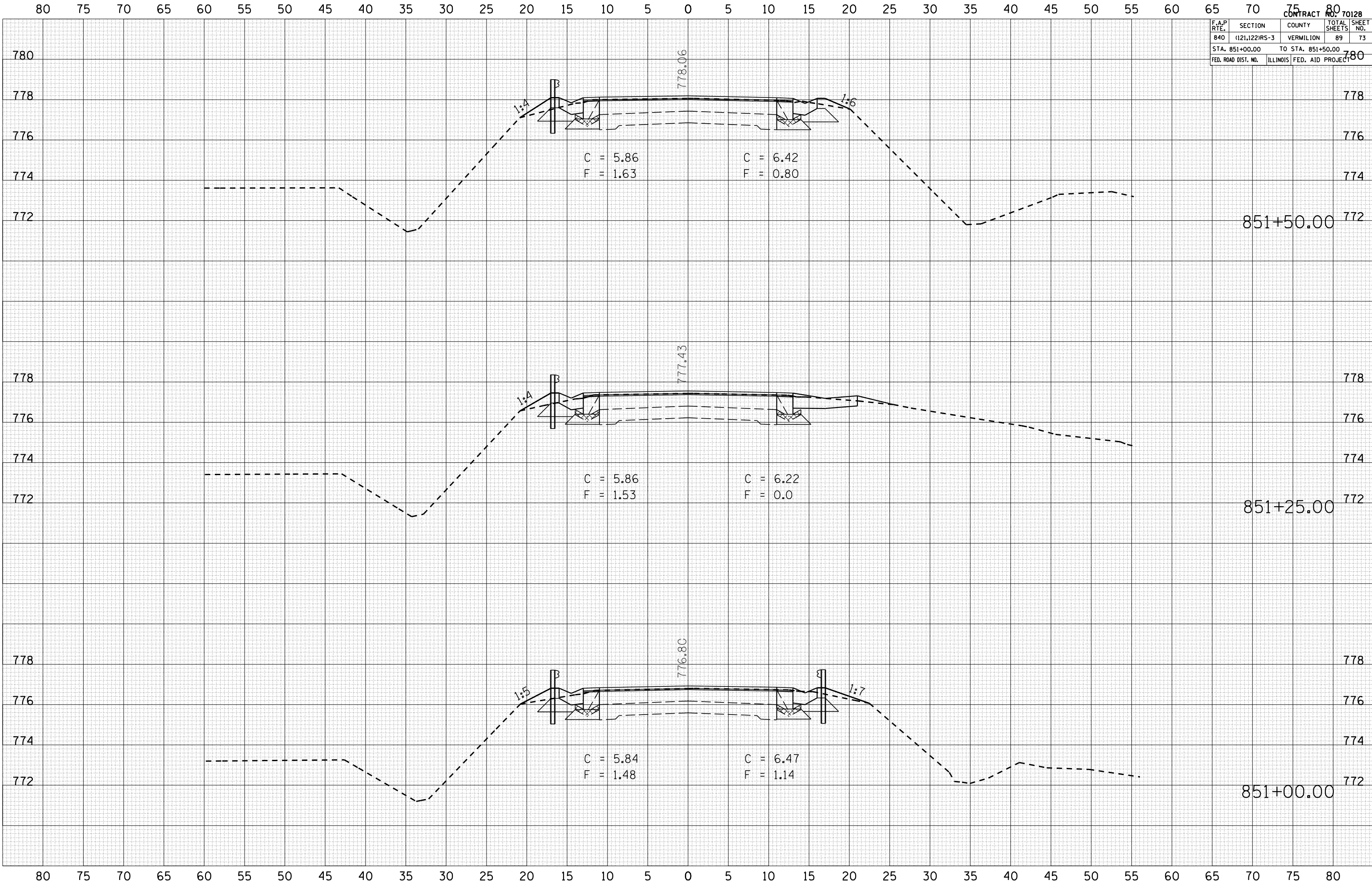
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 USER NAME = collier-b



80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	74
STA. 851+75.00		TO STA. 852+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	AREAS CHECKED

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 USER NAME = collier-bv





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	76
STA. 852+75.00		TO STA. 853+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

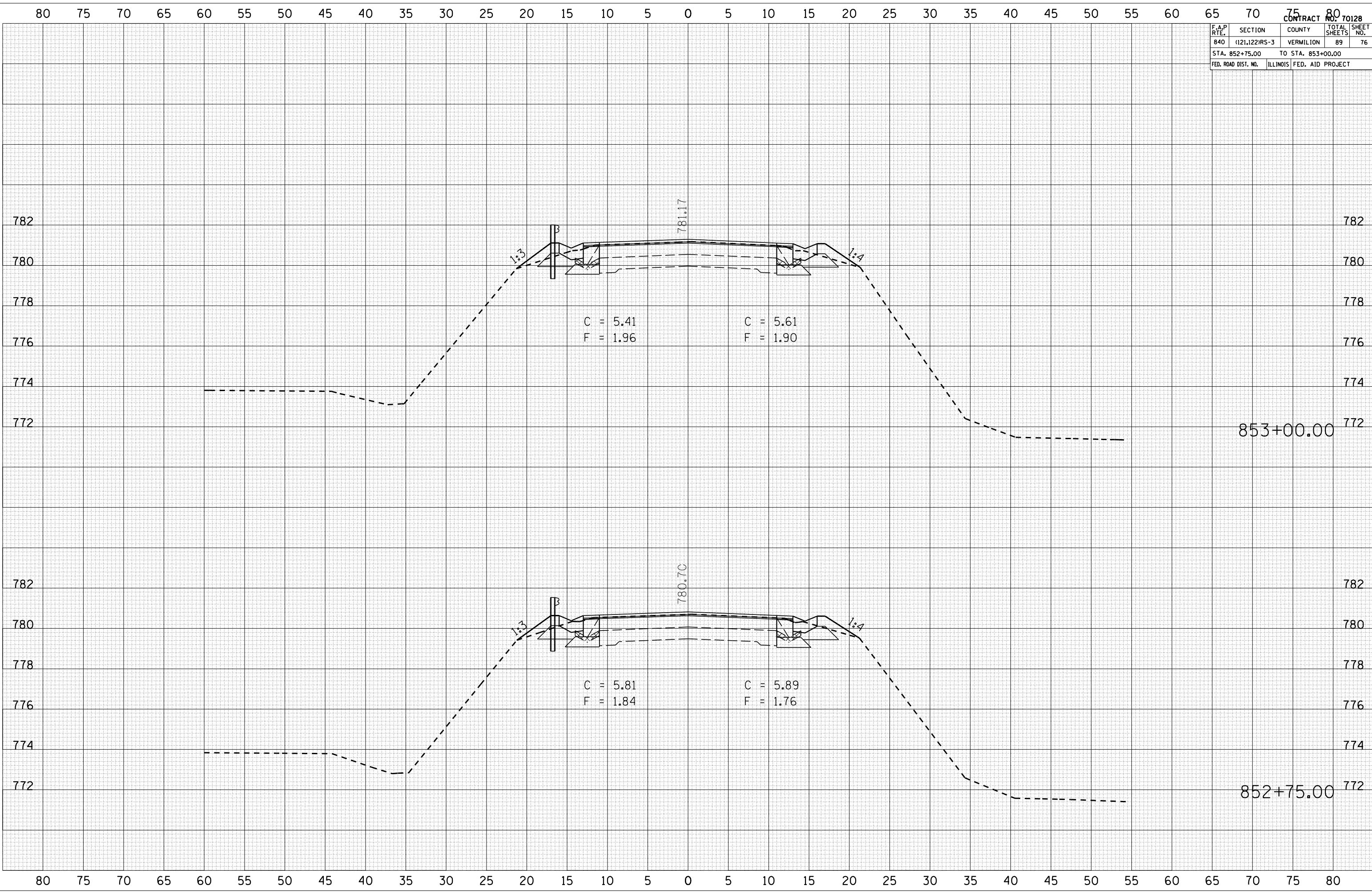
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BY	DATE

NO.	AREAS CHECKED

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 USER NAME = collier-b





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	77
STA. 853+25.00		TO STA. 853+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

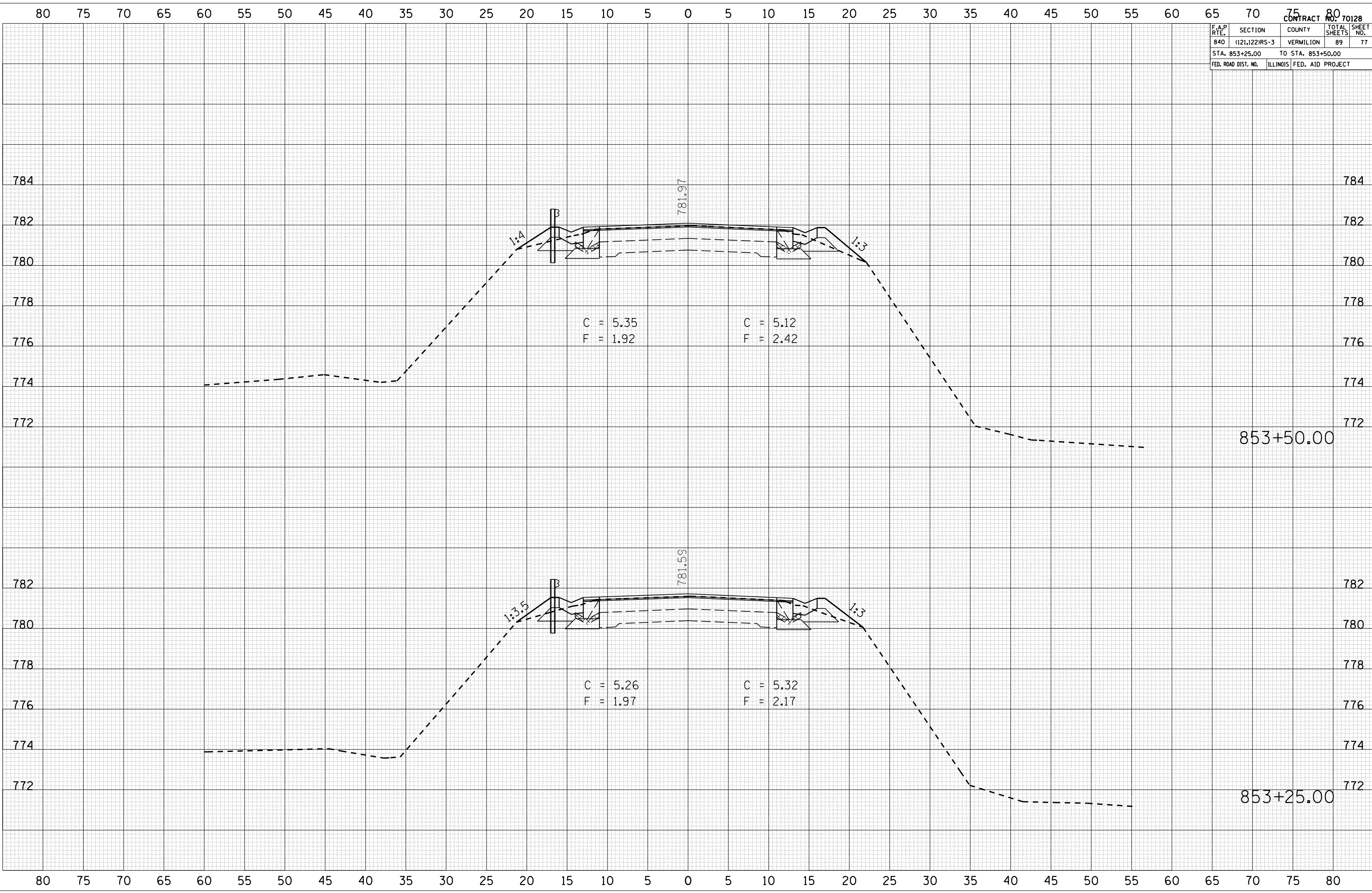
BY	DATE

NO.	AREAS CHECKED

BY	DATE

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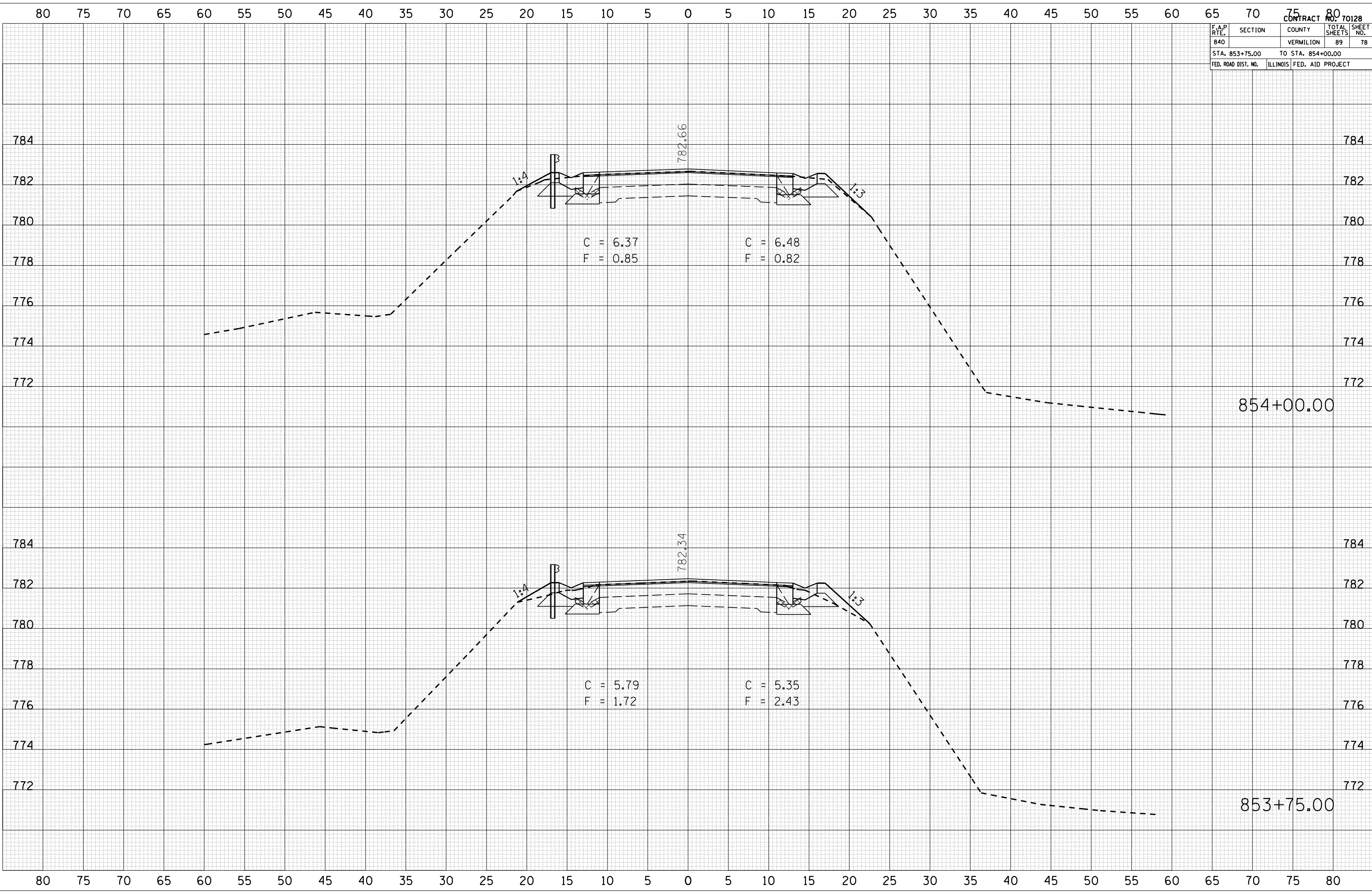


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840		VERMILION	89	78
STA. 853+75.00		TO STA. 854+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
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 USER NAME = collier-b



854+00.00

853+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	79
STA. 862+50.00		TO STA. 862+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

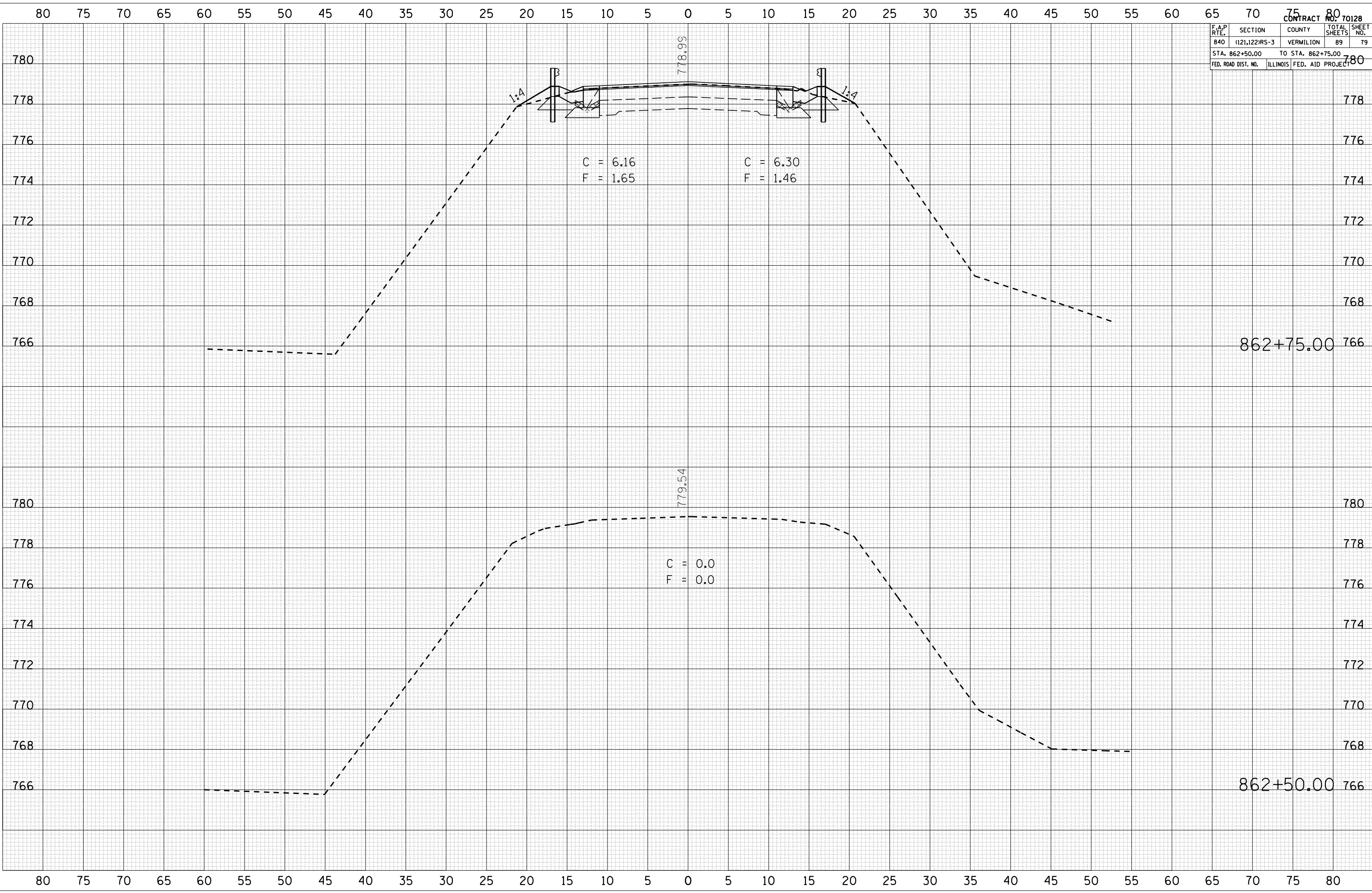
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BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	NO. OF AREAS CHECKED

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 FILE NAME = I:\105602\105602.dwg  
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 USER NAME = collier-b



C = 6.16  
 F = 1.65

C = 6.30  
 F = 1.46

C = 0.0  
 F = 0.0

862+75.00

862+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	80
STA. 863+00.00		TO STA. 863+25.00		780
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	DATE

NO.	AREAS CHECKED

BY	DATE

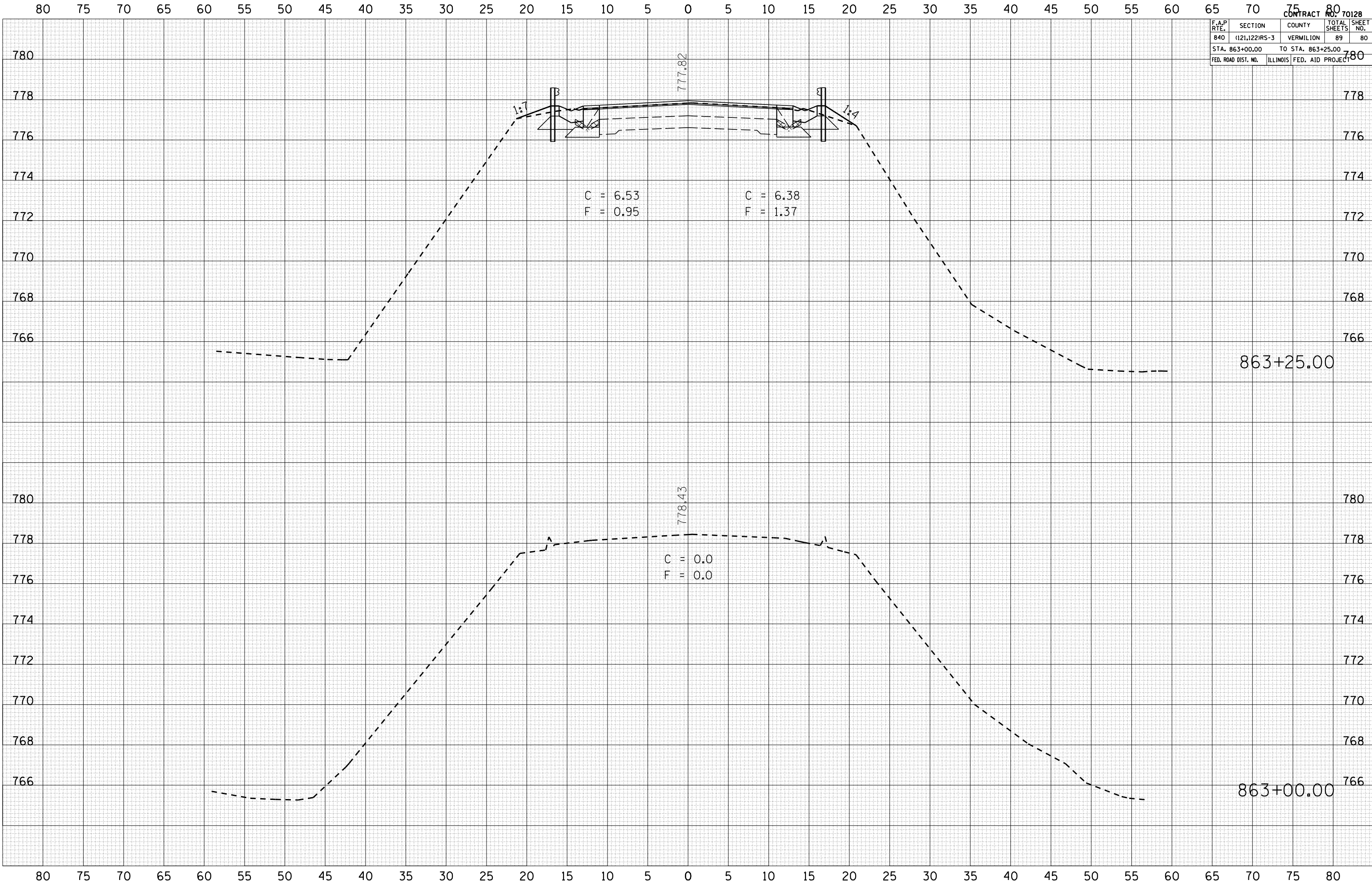
  

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE

NO.	AREAS CHECKED

PLOT DATE = 11/16/2007  
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 USER NAME = collier-b



863+25.00

863+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	81
STA. 863+50.00		TO STA. 863+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

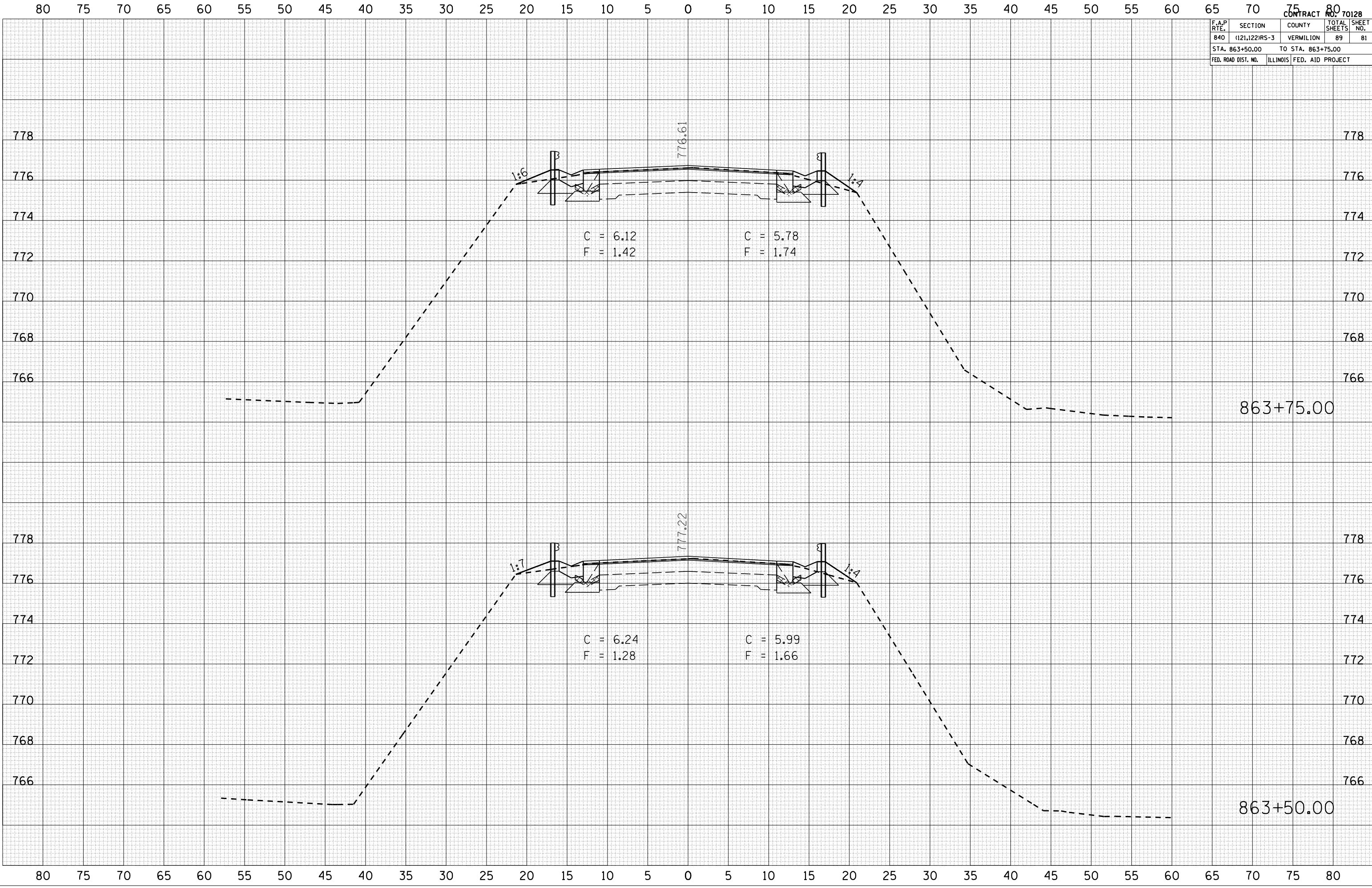
FINAL SURVEY	SURVEYED	PLOTTED	NO. OF AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	NO. OF AREAS CHECKED

PLOT DATE = 11/16/2007  
 FILE NAME = I:\105602\105602.dwg  
 PLOT SCALE = 1/8" = 1' IN.  
 USER NAME = collier-b



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	82
STA. 864+00.00		TO STA. 864+25.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	DATE

NO.	AREAS CHECKED

BY	DATE

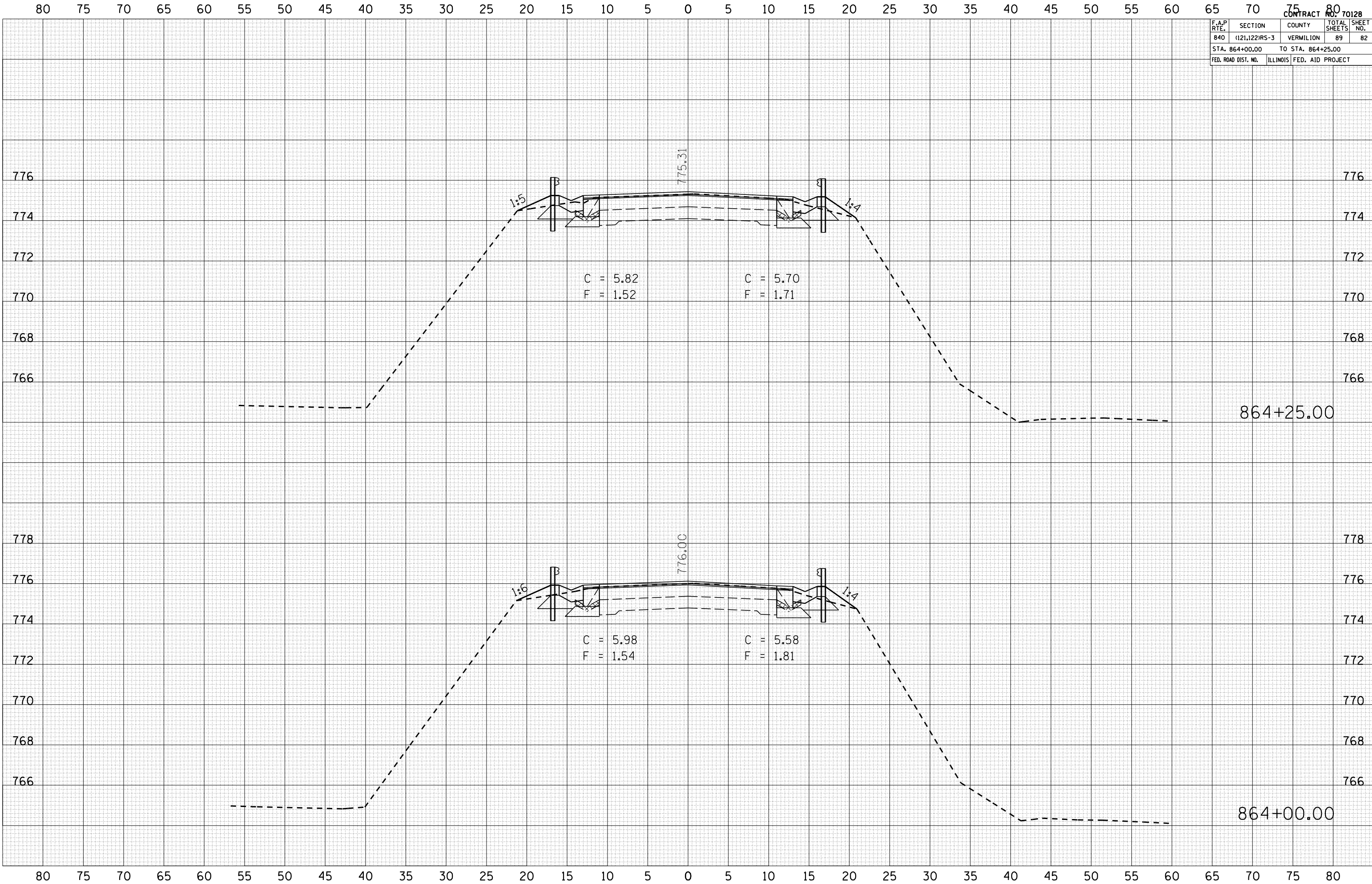
  

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE

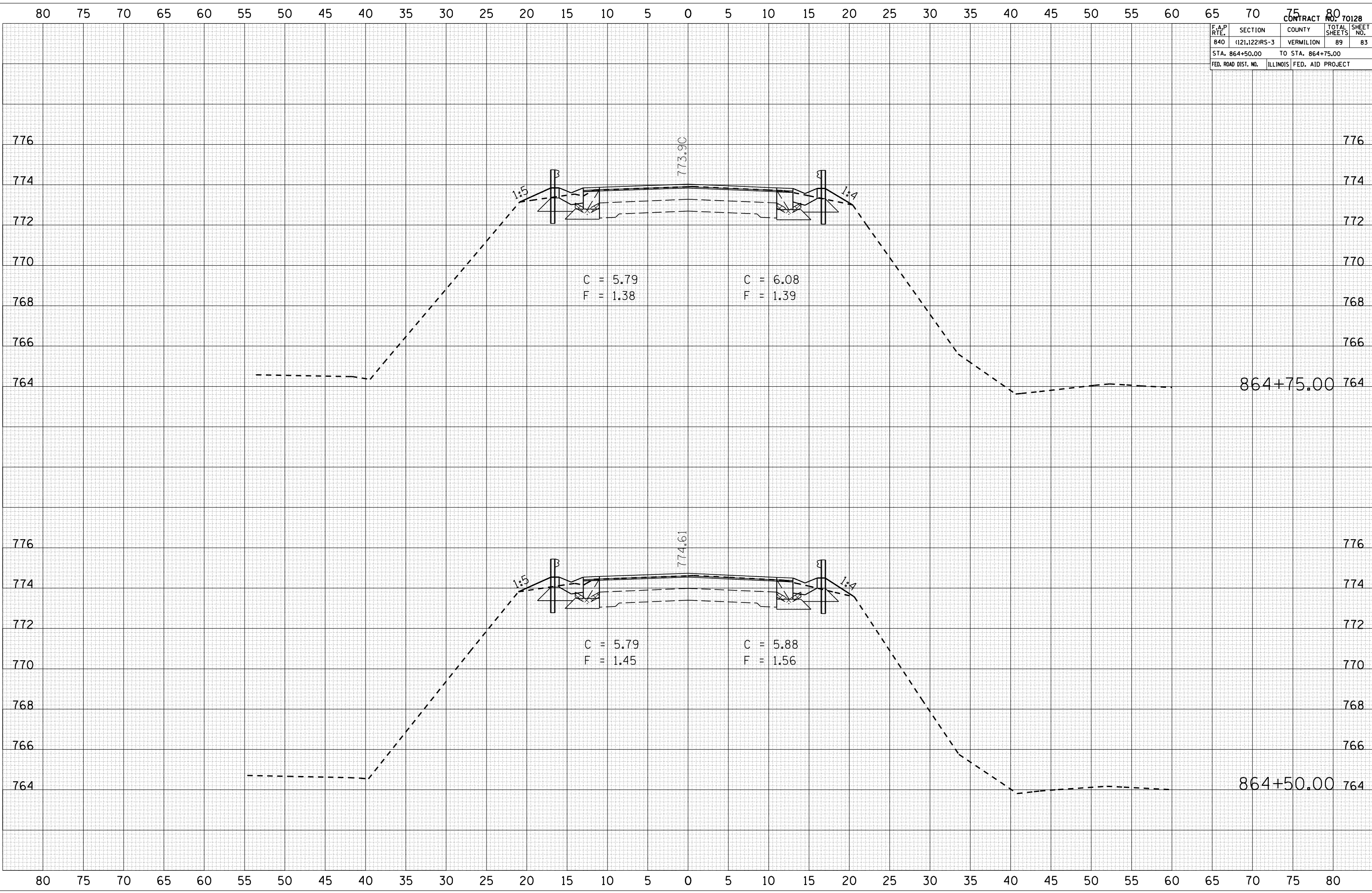
  

NO.	AREAS CHECKED

PLOT DATE = 11/16/2007  
 FILE NAME = I:\Projects\1105582\1105582.dwg  
 PLOT SCALE = 1/8"=1'-0"  
 USER NAME = collier-bv



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	83
STA. 864+50.00		TO STA. 864+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	DATE	AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE	AREAS CHECKED

PLOT DATE = 11/16/2007  
 FILE NAME = I:\105682\105682.dwg  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = collier-bv

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	84
STA. 865+00.00		TO STA. 865+18.80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

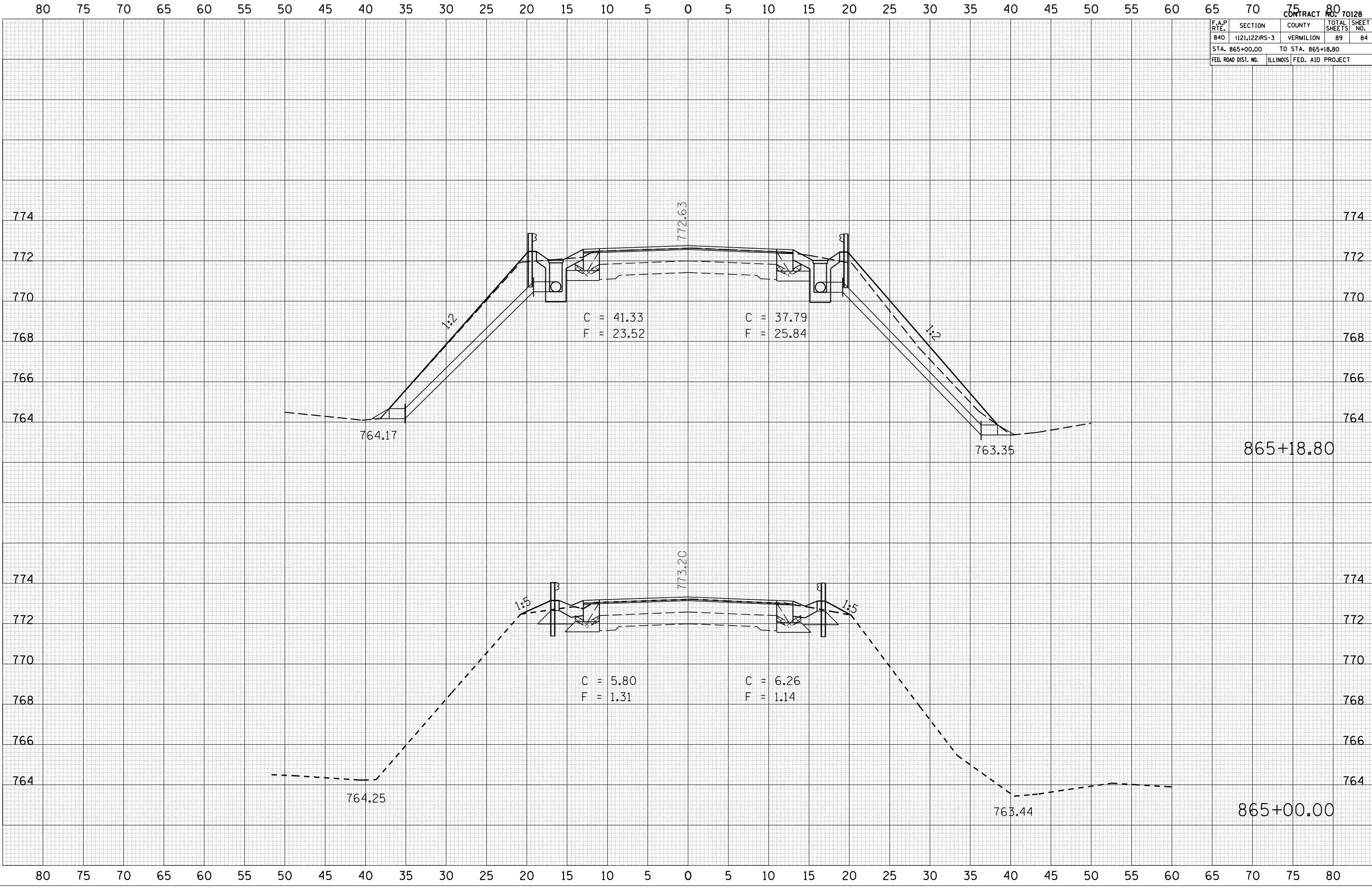
NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = 11/16/2007  
 FILE NAME = I:\Projects\11055602\11055602.dwg  
 PLOT SCALE = 1/8" = 1' IN.  
 USER NAME = collier-b



80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

774  
772  
770  
768  
766  
764

774  
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768  
766  
764

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	85
STA. 865+25.00		TO STA. 865+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

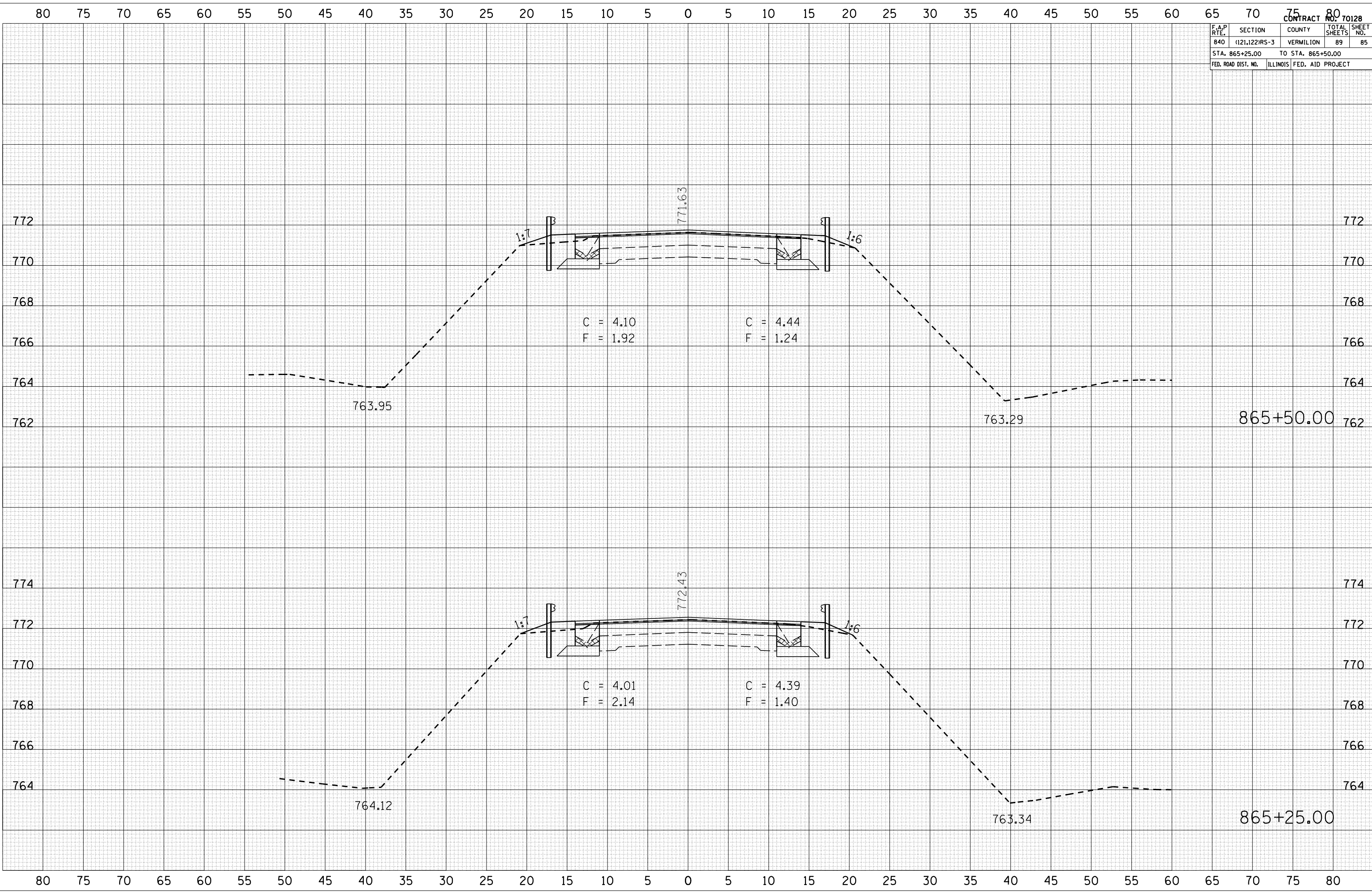
FINAL SURVEY	SURVEYED	PLOTTED	DATE	AREAS CHECKED
NO.				

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE	AREAS CHECKED
NO.				

PLOT DATE = 11/16/2007  
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 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = collier-b



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	86
STA. 865+75.00		TO STA. 866+25.00		772
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

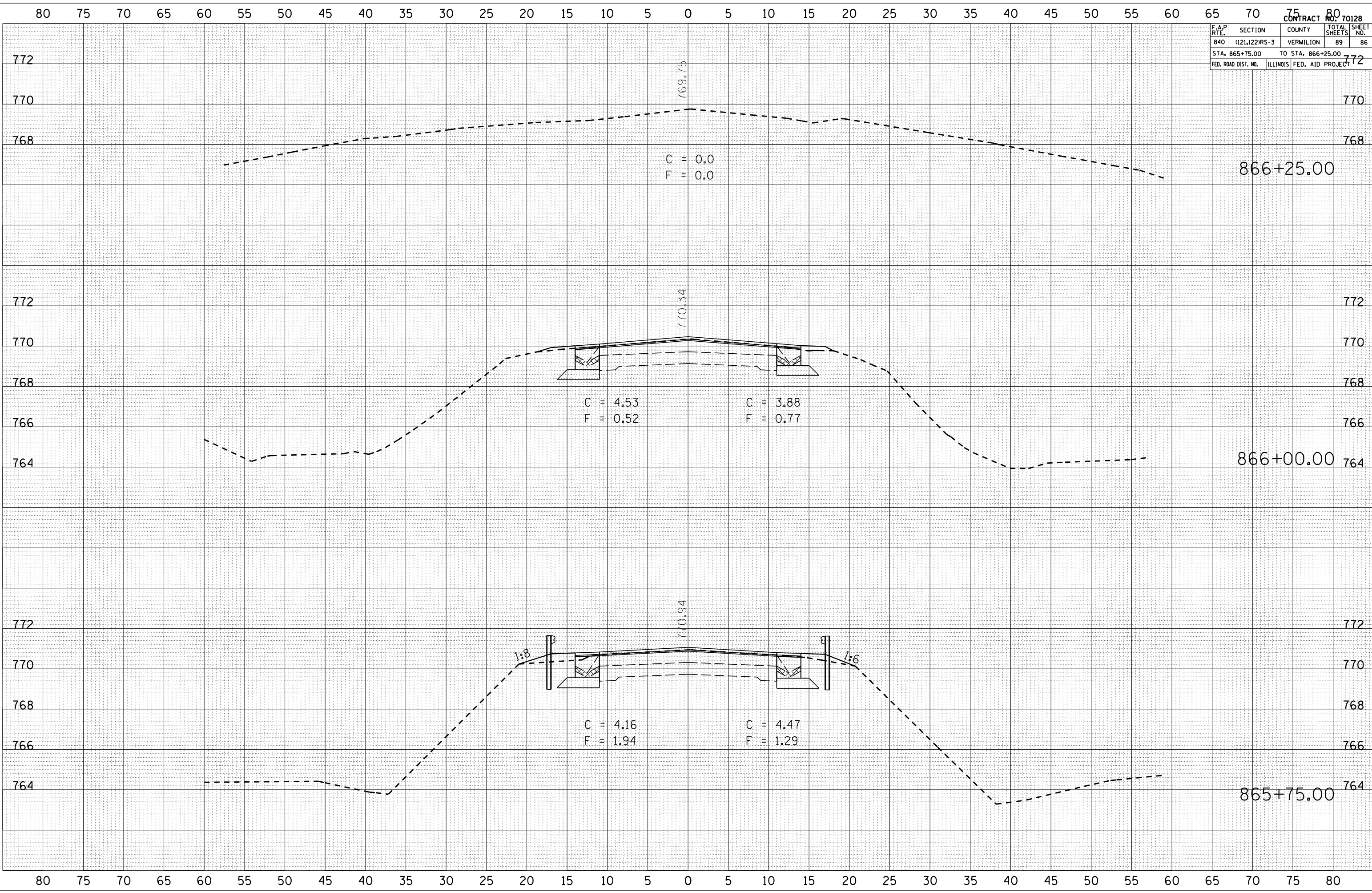
FINAL SURVEY	SURVEYED	PLOTTED	NO. OF AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	NO. OF AREAS CHECKED

PLOT DATE = 11/16/2007  
 FILE NAME = I:\105602\105602.dwg  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = collier-b



80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	87
STA. 866+50.00		TO STA. 867+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

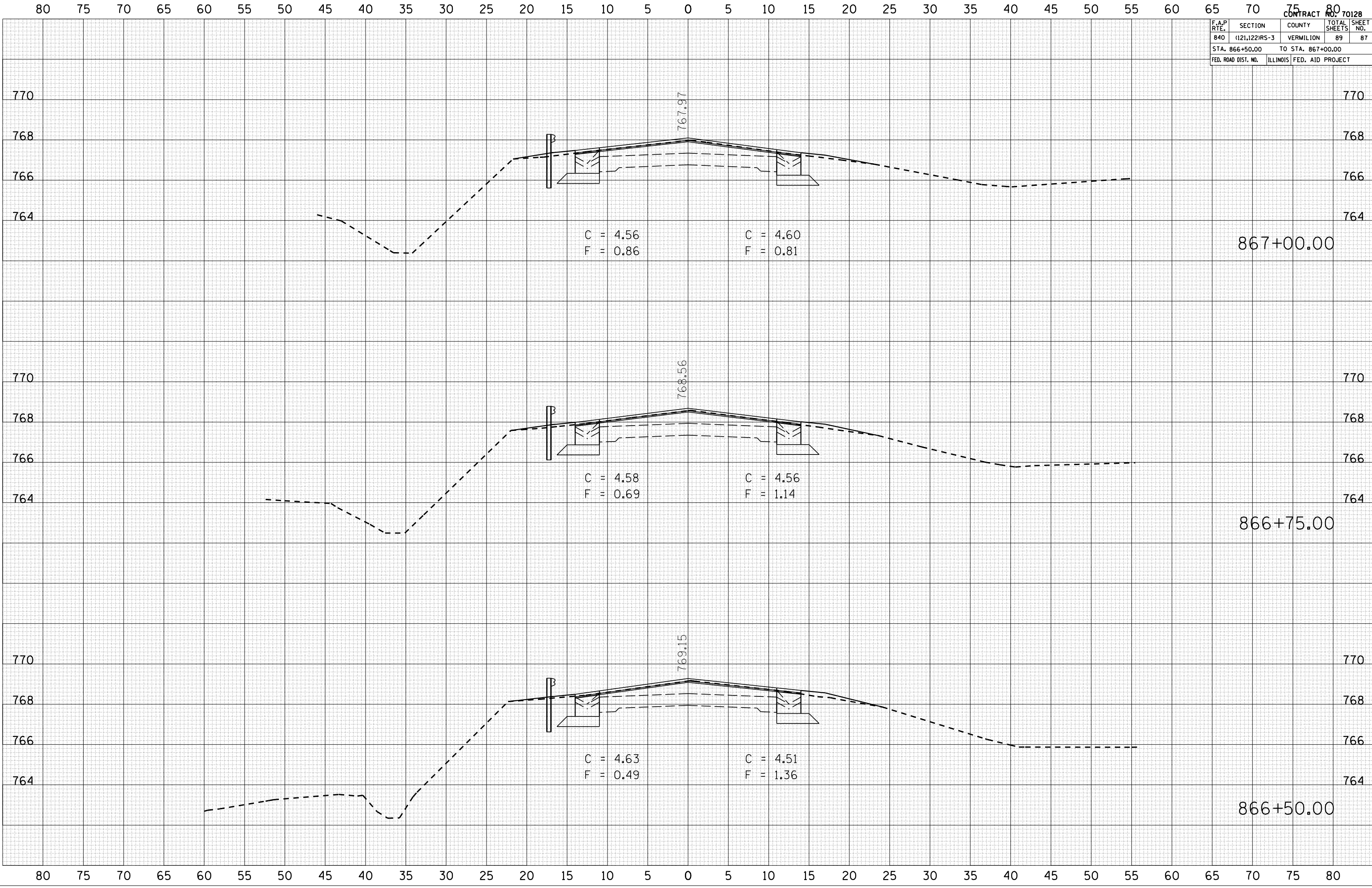
NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = 11/16/2007  
 FILE NAME = I:\105602\105602.dwg  
 PLOT SCALE = 1/8"=1'-0"  
 USER NAME = collier-b



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(121,122)RS-3	VERMILION	89	88
STA. 867+25.00		TO STA. 867+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = 11/16/2007  
 FILE NAME = I:\105602\105602.dwg  
 PLOT SCALE = 10.5602 / IN.  
 USER NAME = collier-b

