

SQUAD LEADER: FAITH DUNCAN
815-284-5364

PROJECT ENGINEER: REBECCA MARRUFFO

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(5BR-1)D	CARROLL	52	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 646 (IL 40)
SECTION (5BR-1)D

CARROLL COUNTY
C-92-015-08

D-92-069-07

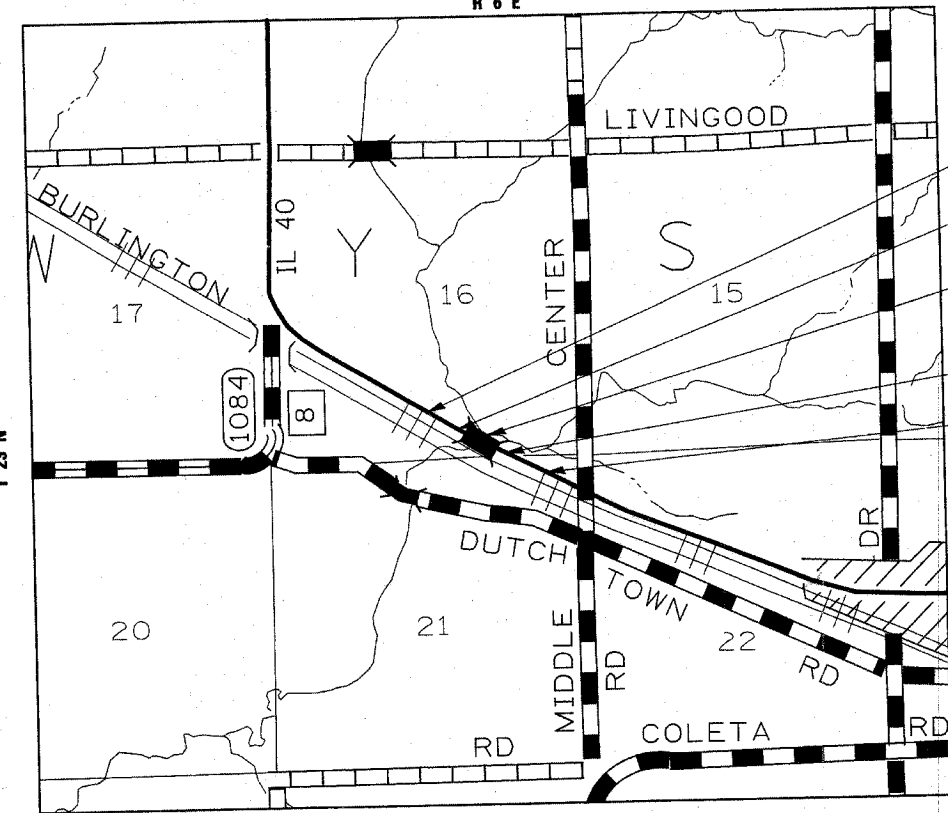


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IMPROVEMENT ENDS
STA 251+79.15

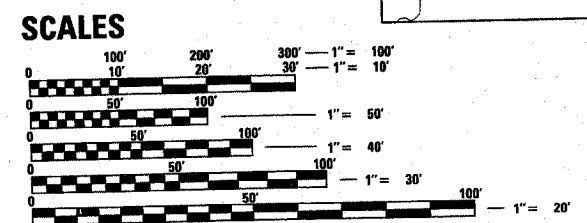
SECTION ENDS
STA 249+02.71

SECTION (5BR-1)D
INCLUDES THE REMOVAL AND REPLACEMENT
OF SIX BEAMS ON THE EXISTING STRUCTURE
SN-008-0014 OVER OTTER CREEK.

SECTION BEGINS
STA 247+39.04

IMPROVEMENT BEGINS
STA 243+54.27

LOCATION OF SECTION INDICATED THUS:



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

WYSOX TOWNSHIP SECTION 16, 21
CONTRACT NO. 64D29

GROSS LENGTH OF PROJECT = 824.88 LIN FT = 0.15 MI
NET LENGTH OF PROJECT = 824.88 LIN FT = 0.15 MI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____

Angie E. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 7, 20 07

Eric E. Horn
ENGINEER OF DESIGN AND ENVIRONMENT

December 7, 20 07

Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

**REGION 2, DISTRICT 2
DIXON**

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 646 (IL 40)	(5BR-1)D	Carroll		3
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64D29				

See cross sections for special ditches and backslopes.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

It is estimated that 505 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 25% has been used.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per Cubic Meter (Cubic Yard) for EARTH EXCAVATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of EARTH EXCAVATION.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the EARTH EXCAVATION.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 64-22	PG 58-22	PG 58-22
Design Air Voids	4.0 @ N50	4.0 @ N50	3.0 @ N50	2.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5	IL 9.5 or 12.5	BAM
Friction Aggregate	C	N/A	C	N/A
20 Year ESAL	0.6	0.6	N/A	N/A
Mix Unit Weight	112 lbs/sy/in		112 lbs/sy/in	

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per metric ton (ton) for LEVELING BINDER (MACHINE METHOD) of the type specified.

This structure will retain the same number 008-0014.

The contractor shall submit four copies of the required shop drawings for review and approval to the Bureau of Bridges and Structures, 2300 South Dirksen Parkway, Springfield, IL 62764. After approval of initial submittal, the contractor shall submit one set of shop drawings to Dave Lippert, Engineer of Materials, 126 East Ash Street, Springfield, IL 62706, and eight (8) sets of shop drawings to be distributed to:

- District 2 District Engineer (1)
- Fabricator (1)
- Contractor (2)
- Resident Engineer (2)
- District 2 Bureau of Materials (2)

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in quantities for Furnished Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted.

Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

Pavement Marking shall be done according to Standard 780001.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 2 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on Highway Standard 667101.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Commonwealth Edison Co.
Frontier/Citizens

NICOR Gas Co.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

Guardrail post from Lt. Sta. 245+23.38 to Lt. Sta. 251+32.09 shall be 9 ft. post. This shall be included in the cost of GUARDRAIL.

COMMITMENTS:

1. All work on the structure over Otter Creek shall be performed from the existing deck and no work shall take place below the existing structure on the ground, nor in the creek bed.
2. No trees shall be removed.
3. No material shall be placed below the structure.

The Contractor must utilize existing anchor devices in the existing approach beams to attach the Type SM Bridge Rail in approach areas. Rail Post shall be adjusted to fit the existing anchor configurations. This work will be included in the contract unit price per Foot for STEEL BRIDGE RAIL, TYPE SM.

TYPICAL SECTIONS

RT STA. 243 + 54.27 TO STA. 347 + 39.04

LT STA. 244 + 89.43 TO STA. 247 + 39.04

RT STA. 248 + 02.71 TO STA. 250 + 15.56

LT STA. 248 + 02.71 TO STA. 251 + 79.15

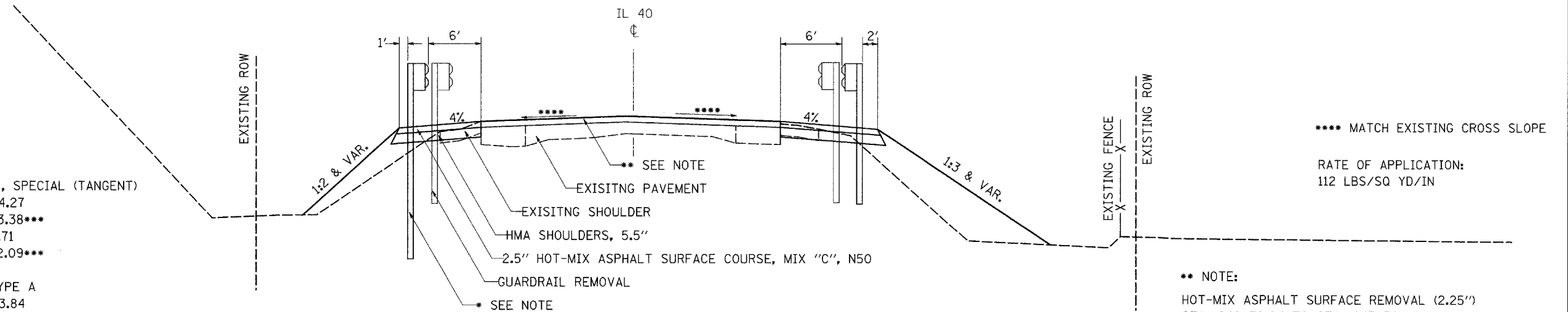
*** NOTE:**

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)
 RT STA. 243+54.28 TO STA. 244+04.27
 LT STA. 245+23.38 TO STA. 245+73.38***
 RT STA. 249+19.71 TO STA. 249+69.71
 LT STA. 250+82.08 TO STA. 251+32.09***

STEEL PLATE BEAM GUARD RAIL, TYPE A
 RT STA. 244+04.27 TO STA. 246+73.84
 LT STA. 245+73.38 TO STA. 246+73.38***
 LT STA. 248+69.60 TO STA. 250+82.08***
 RT STA. 248+69.70 TO STA. 249+19.71

TRAFFIC BARRIER TERMINAL, TYPE 6A
 LT STA. 246+73.38 TO STA. 247+19.54***
 RT STA. 246+73.84 TO STA. 247+19.54
 LT STA. 248+23.88 TO STA. 248+69.60***
 RT STA. 248+24.00 TO STA. 248+69.70

*** 9' POST MUST BE USED



**** MATCH EXISTING CROSS SLOPE

RATE OF APPLICATION:
112 LBS/SQ YD/IN

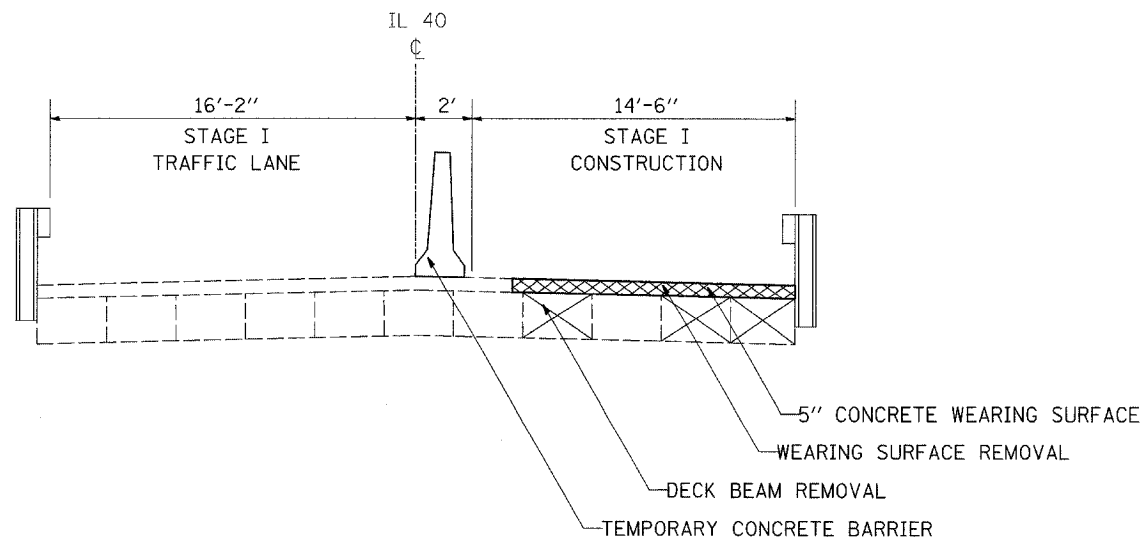
**** NOTE:**

HOT-MIX ASPHALT SURFACE REMOVAL (2.25")
 STA. 246+39.04 TO STA. 247+39.04
 STA. 248+02.71 TO STA. 249+02.71

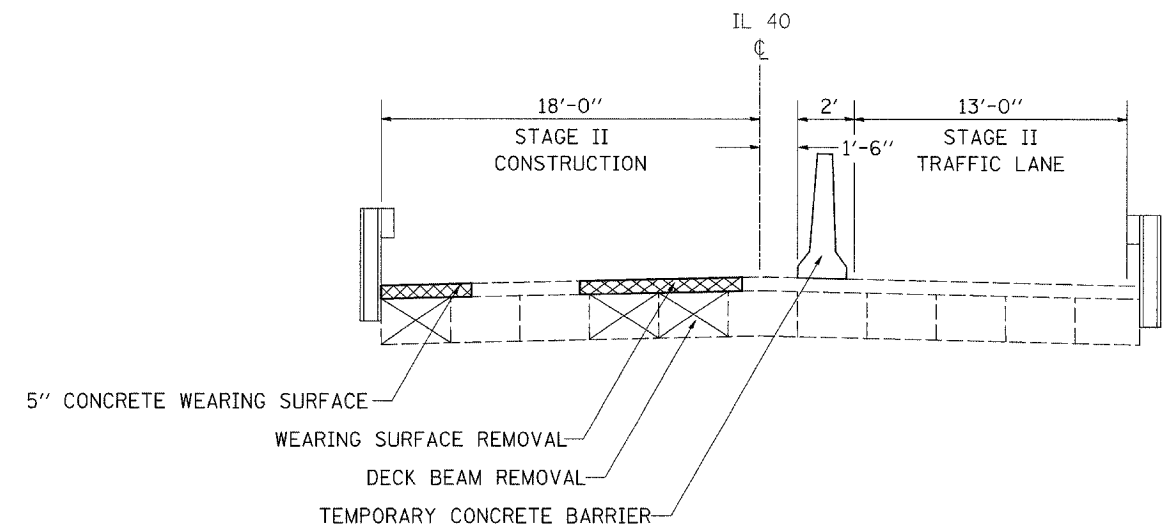
1.5" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
 1" LEVELING BINDER (MM), N50
 STA. 246+39.04 TO STA. 247+39.04
 STA. 248+02.71 TO STA. 249+02.71

STAGING TYPICALS

STAGE I



STAGE II



FILE NAME = c:\projects\p206907\c06907typ.dgn	USER NAME = dunoanfe	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE. 646	SECTION (5BR-11D)	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 4
	PLOT SCALE = 5/8" = 1' IN.	CHECKED -	REVISED -					CONTRACT NO. 64D29				
	PLOT DATE = Wed Oct 24 11:30:13 2007	DATE -	REVISED -		SCALE: 50	SHEET NO. 4 OF 52 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

20200100	EARTH EXCAVATION					
	CU YD	LOCATION				
	149	IL 40	243+50	-	252+ 00	
	149	LT & RT				
		TOTAL				
20400800	FURNISHED EXCAVATION					
	CU YD	LOCATION				
	505	IL 40	243+50	-	252+ 00	
	505	LT & RT				
		TOTAL				
25100630	EROSION CONTROL BLANKET					
	SQ YD	LOCATION				
	700	IL 40	243+50	-	247+ 40	
	231	RT	244+90	-	247+ 40	
	640	LT	248+02	-	250+ 25	
	643	RT	248+09	-	251+ 79	
	2,214	LT				
		TOTAL				
28000400	PERIMETER EROSION BARRIER					
	FOOT	LOCATION				
	390	IL 40	243+50	-	247+ 40	
	250	RT	244+90	-	247+ 40	
	223	LT	248+02	-	250+ 25	
	370	RT	248+09	-	251+ 79	
	1,233	LT				
		TOTAL				
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A					
	TON	LOCATION				
	113.47	IL 40	245+85.77	-	249+ 59.38	STAGE 1 - TEMP PAVEMENT
	113.47	RT				
		TOTAL				
40600625	LEVELING BINDER (MACHINE METHOD), N50					
	TON	LOCATION				
	15.55	IL 40	246+39.02	-	247+ 39.04	
	15.55	STA	248+02.71	-	249+ 02.71	
	31.10	STA				
		TOTAL				
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50					
	TON	LOCATION				
	56.21	IL 40	243+54.27	-	247+ 39.07	SHOULDER
	32.03	RT	244+89.42	-	247+ 38.99	SHOULDER
	23.50	LT	246+39.02	-	247+ 39.04	MAINLINE
	28.51	STA	248+02.48	-	250+ 15.56	SHOULDER
	47.73	RT	248+02.77	-	251+ 79.15	SHOULDER
	23.42	LT	248+02.71	-	249+ 02.72	MAINLINE
	211.40	STA				
		TOTAL				
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"					
	SQ YD	LOCATION				
	279.82	IL 40	246+39.04	-	247+ 39.04	
	278.86	STA	248+02.71	-	249+ 02.72	
	558.68	STA				
		TOTAL				

48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"					
	SQ YD	LOCATION				
	401.47	IL 40	243+54.27	-	247+ 39.07	
	228.79	RT	244+89.42	-	247+ 38.99	
	203.65	LT	248+02.48	-	250+ 15.56	
	340.94	RT	248+02.77	-	251+ 79.15	
	1174.85	LT				
		TOTAL				
63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A					
	FOOT	LOCATION				
	275.00	IL 40	244+04.27	-	246+ 73.68	
	100.00	RT	245+73.38	-	246+ 73.38	
	50.00	LT	248+69.70	-	249+ 19.71	
	212.50	RT	248+69.60	-	250+ 82.09	
	637.50	LT				
		TOTAL				
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A					
	EACH	LOCATION				
	1	IL 40	246+73.68	-	247+ 19.39	
	1	RT	246+73.38	-	247+ 19.54	
	1	LT	248+24.01	-	248+ 69.70	
	1	RT	248+23.88	-	248+ 69.60	
	4	LT				
		TOTAL				
63100167	TRAFFIC BARRIER TERMINAL TYPE I, SPECIAL (TANGENT)					
	EACH	LOCATION				
	1	IL 40	243+54.28	-	244+ 04.27	
	1	RT	245+23.38	-	245+ 73.38	
	1	LT	249+19.71	-	249+ 69.71	
	1	RT	250+82.09	-	251+ 32.09	
	4	LT				
		TOTAL				
63200310	GUARDRAIL REMOVAL					
	FOOT	LOCATION				
	723	IL 40	243+54.27	-	250+ 77.26	
	810	RT	244+91.41	-	253+ 00.60	
	1533	LT				
		TOTAL				
63500105	DELINEATORS					
	EACH	LOCATION				
	1	IL 40	243+48.73	-		
	1	RT	245+23.38	-		
	1	LT	249+69.71	-		
	1	RT	251+32.09	-		
	4	LT				
		TOTAL				
70106700	TEMPORARY RUMPLE STRIP					
	EACH	LOCATION				
	1	IL 40	226+70.86	-		
	1	RT	231+70.86	-		
	1	LT	236+70.88	-		
	1	RT	258+22.22	-		
	1	LT	263+22.22	-		
	1	RT	268+22.22	-		
	6	LT				
		TOTAL				

70300520 PAVEMENT MARKING TAPE TYPE III, 4"

EQOT	LOCATION				
	IL 40				
672.74	RT	243+87.47	-	250+ 60.21	STAGE II (WHITE)
381.20	LT	245+62.39	-	249+ 43.59	STAGE II (WHITE)
553.49	LT	245+24.66	-	250+ 78.15	STAGE I (WHITE)
353.63	RT	245+95.77	-	249+ 49.40	STAGE I (WHITE)
1,961.06	TOTAL				

70300570 PAVEMENT MARKING TAPE TYPE III, 24"

EQOT	LOCATION				
	IL 40				
12	RT	243+70.86			STOP BAR, STAGE II (WHITE)
12	RT	245+60.04			STOP BAR, STAGE I (WHITE)
12	LT	250+39.91			STOP BAR, STAGE I (WHITE)
12	LT	251+22.22			STOP BAR, STAGE II (WHITE)
48	TOTAL				

70301000 WORKZONE PAVEMENT MARKING REMOVAL

SQ. FT.	LOCATION				
	IL 40				
24.00	RT	243+70.86			STOP BAR, STAGE II (WHITE)
223.95	RT	243+87.47	-	250+ 60.21	STAGE II (WHITE)
24.00	RT	245+60.04			STOP BAR, STAGE I (WHITE)
184.31	LT	245+24.66	-	250+ 78.15	STAGE I (WHITE)
126.94	LT	245+62.39	-	249+ 43.59	STAGE II (WHITE)
117.76	RT	245+95.77	-	249+ 49.40	STAGE I (WHITE)
24.00	LT	250+39.91			STOP BAR, STAGE I (WHITE)
24.00	LT	251+22.22			STOP BAR, STAGE II (WHITE)
748.96	TOTAL				

70400100 TEMPORARY CONCRETE BARRIER

EQOT	LOCATION				
	IL 40				
38	RT	245+96.18	-	246+ 34.19	STAGE II
275	LT	246+34.19	-	249+ 08.21	STAGE I
38	RT	249+08.21	-	249+ 45.73	STAGE II
350	TOTAL				

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

EQOT	LOCATION				
	IL 40				
350	RT	245+96.18	-	249+ 45.73	STAGE II
350	TOTAL				

78001110 PAINT PAVEMENT MARKING - LINE 4" (TWO COATS)

EQOT	LOCATION				
	IL 40				
500	STA.	242+ 50	-	252+ 50	(YELLOW SKIP DASH)
2000	RT STA	242+ 50	-	252+ 50	(WHITE EDGE LINE)
2000	LT STA	242+ 50	-	252+ 50	(WHITE EDGE LINE)
4500	TOTAL				

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION				
	IL 40				
4	RT	243+ 48.73	-	247+ 19.39	
4	LT	245+ 23.38	-	247+ 19.54	
4	RT	248+ 24.01	-	249+ 69.71	
4	LT	248+ 23.88	-	251+ 32.09	
16	TOTAL				

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION				
	IL 40				
1	RT	243+ 48.73			
1	LT	245+ 23.38			
1	RT	249+ 69.71			
1	LT	251+ 32.09			
4	TOTAL				

78300100 PAVEMENT MARKING REMOVAL

SQ. FT.	LOCATION				
	IL 40				
89.17	STA.	243+ 70.86	-	244+ 60.03	CENTERLINE - STAGE II
633.88	STA.	244+ 60.03	-	250+ 93.91	CENTERLINE - STAGE I
28.31	STA.	250+ 93.91	-	251+ 22.22	CENTERLINE - STAGE II
751.36	TOTAL				

X0712400 TEMPORARY PAVEMENT

SQ. YD	LOCATION				
	IL 40				
166.05	RT	245+ 85.77	-	249+ 59.38	STAGE 1 - TEMP PAVEMENT
166.05	TOTAL				

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION				
	IL 40				
1	LT	246+ 34.19			STAGE I
1	LT	249+ 08.21			STAGE I
2	TOTAL				

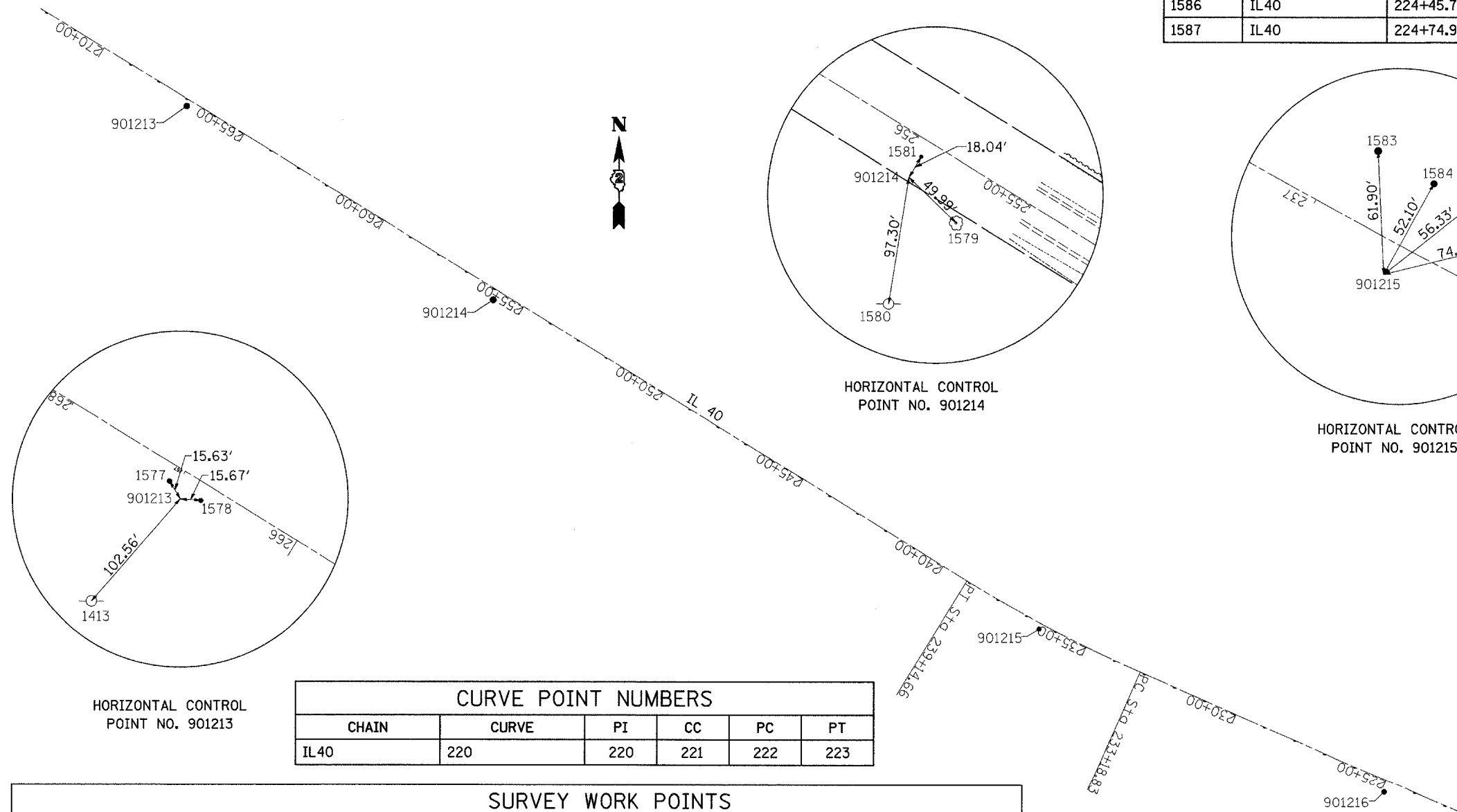
Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION				
	IL 40				
1	RT	245+ 96.18			STAGE II
1	RT	249+ 45.73			STAGE II
2	TOTAL				

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
901213	1934340.8550	2391933.7820	744.3090	IL40	266+92.2815	19.7661' LT	PHOTO CONTROL H. & V., PIN
901214	1933754.0160	2392866.8180	725.6780	IL40	255+90.0962	30.8864' LT	PHOTO CONTROL H. & V., PIN
901215	1932757.2300	2394529.7770	734.1020	IL40	236+52.2472	16.7246' LT	PHOTO CONTROL H. & V., PIN
901216	1932258.6220	2395580.6950	734.3790	IL40	224+90.4352	36.0203' LT	PHOTO CONTROL H. & V., PIN

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1413	1934263.6210	2391866.2960	745.703	IL40	267+09.3092	120.9072' LT	TELEGRAPH POLE, 60D NAIL
1415	1932774.8240	2394602.1030	740.684	IL40	235+96.3701	32.5680' RT	R.O.W. MARKER, TOP

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
1577	IL40	267+06.2031	12.6691' LT	PAVEMENT, SHINER
1578	IL40	266+78.3794	12.5293' LT	PAVEMENT, SHINER
1579	IL40	255+41.4521	41.7389' LT	TREE DECIDUOUS
1580	IL40	255+52.9161	120.7972' LT	TELEGRAPH POLE, SHINER
1581	IL40	255+90.2340	12.8476' LT	PAVEMENT - EDGE, BITUMINOUS
1582	IL40	236+29.2359	34.7085' RT	FENCE POST, SHINER
1583	IL40	236+84.1715	36.3464' RT	FENCE POST, SHINER
1584	IL40	236+51.3316	35.3698' RT	FENCE POST, SHINER
1585	IL40	225+04.2212	119.6745' LT	TELEGRAPH POLE, SHINER
1586	IL40	224+45.7019	39.701' LT	POWER POLE, SHINER
1587	IL40	224+74.9264	66.6067' LT	GUARDRAIL STEEL PLATE BEAM, END



Beginning chain D.IL40 description

Point D213 N 1,930,662.1564 E 2,399,288.7668 Sta 184+53.4559
 Course from D213 to PC 220 293° 48' 17.7278" Dist 4,865.3789'

Curve Data

 Curve 220
 P.I. Station 236+17.2048 N 1,932,746.3690 E 2,394,564.3240
 Delta = 7° 47' 06.4551" (RT)
 Degree = 1° 18' 23.8332"
 Tangent = 298.3700'
 Length = 595.8216'
 Radius = 4,385.0366'
 External = 10.1392'
 Long Chord = 595.3634'
 Mid. Ord. = 10.1158'
 P.C. Station 233+18.8348 N 1,932,625.9397 E 2,394,837.3102
 P.T. Station 239+14.6564 N 1,932,902.6665 E 2,394,310.1671
 C.C. N 1,936,637.9193 E 2,396,607.2159

Course from PT 220 to D232 301° 35' 24.1829" Dist 4,139.5166'

Point D232 N 1,935,071.1026 E 2,390,784.0527 Sta 280+54.1730

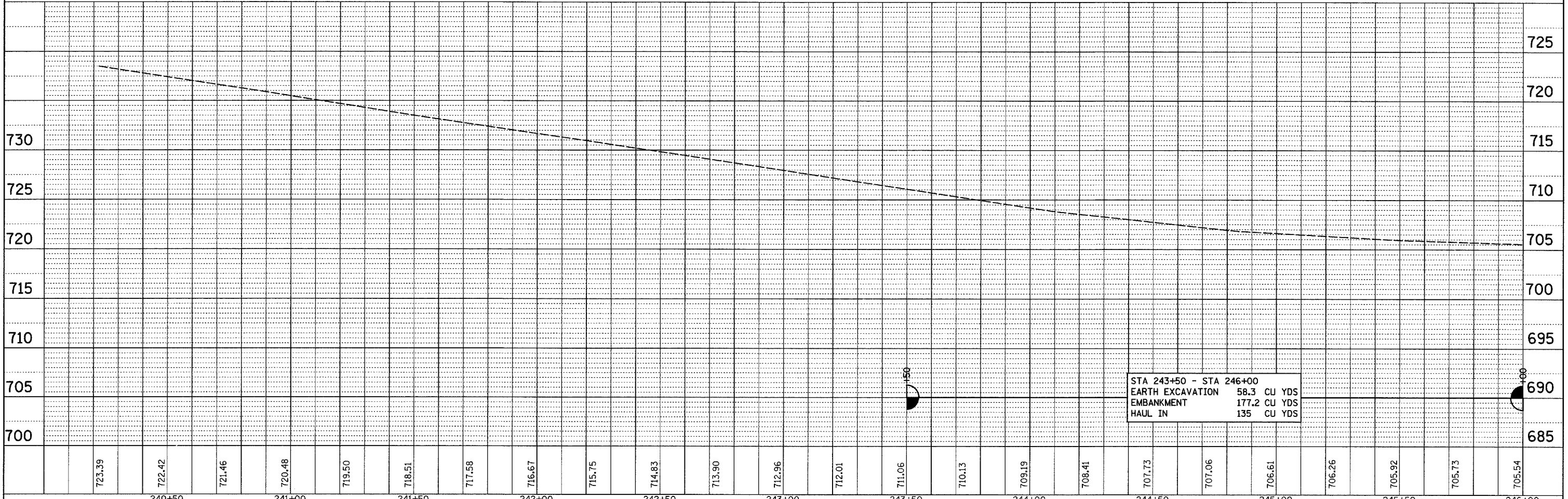
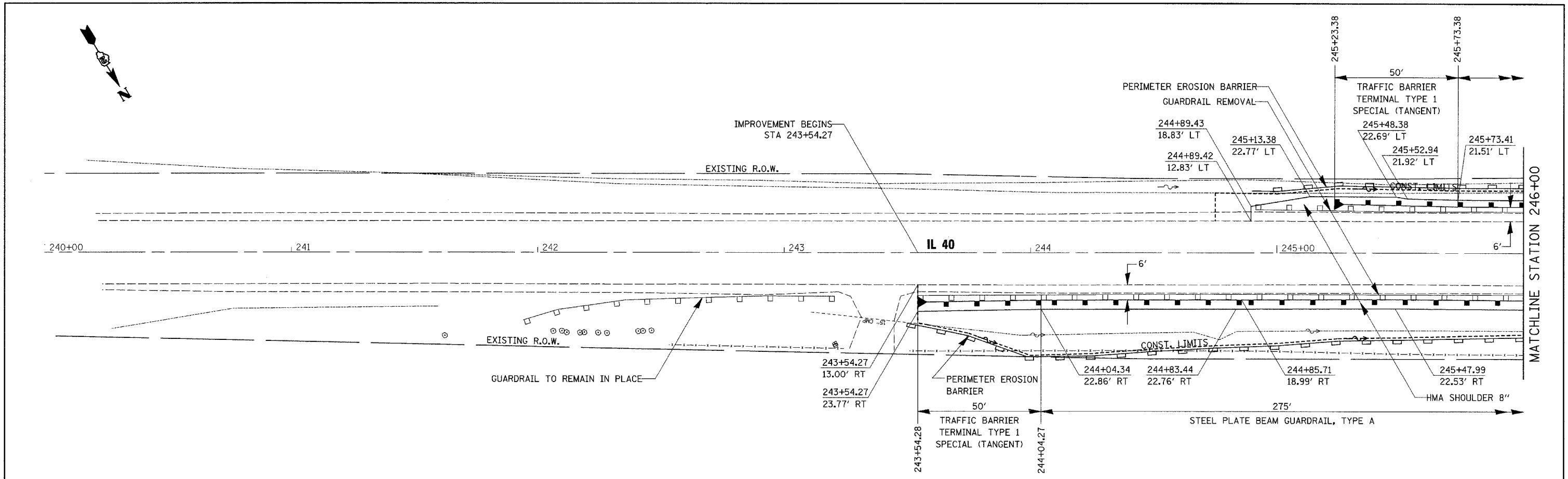
Ending chain D.IL40 description

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL40	220	220	221	222	223

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1001	1933308.0073	2393624.5547	706.096	IL40	247+11.0062	13.8733' LT	TRAVERSE STATION, NAIL
1002	1933140.9619	2393974.5793	710.761	IL40	243+25.3443	27.1906' RT	TRAVERSE STATION, NAIL
1003	1933361.3894	2393627.5088	699.338	IL40	247+36.4534	33.1460' RT	BILL HOLT PIN AND CAP

PLAN SURVEYED BY DATE
 NOTE BOOK NO. RT. OF WAY CHECKED
 CAD FILE NAME

PROFILE SURVEYED BY DATE
 NOTE BOOK NO. GRADES CHECKED
 STRUCTURE NOTATIONS OK'D



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PLOT DATE = Wed Oct 24 11:46:22 2007	DATE - 9/20/07		REVISED -

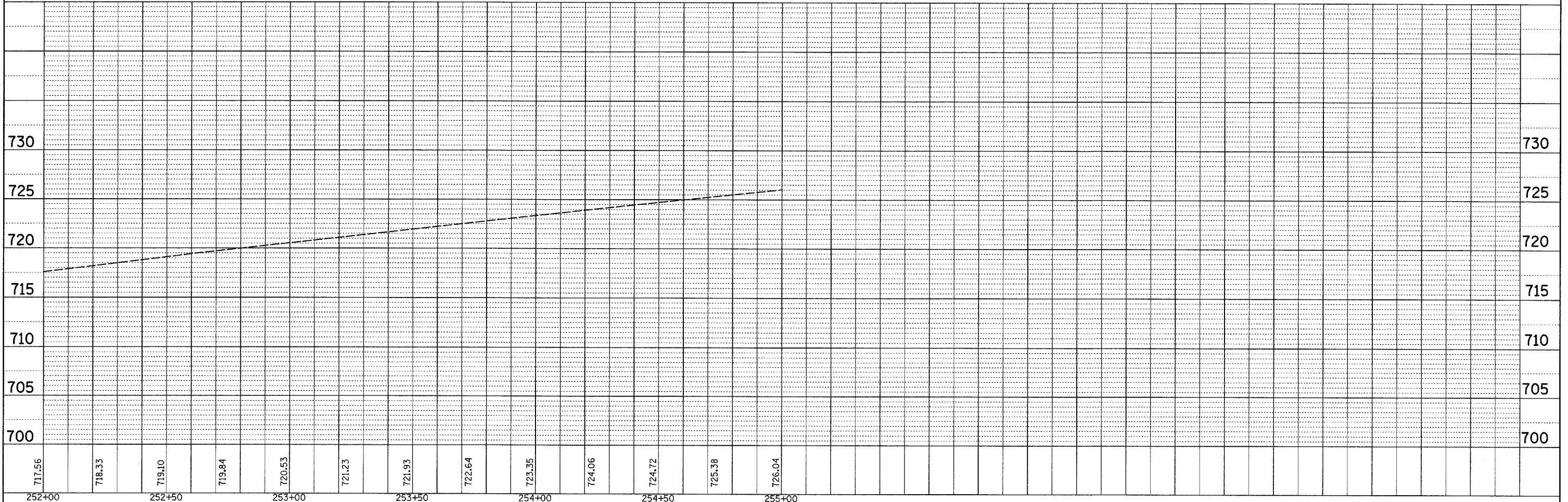
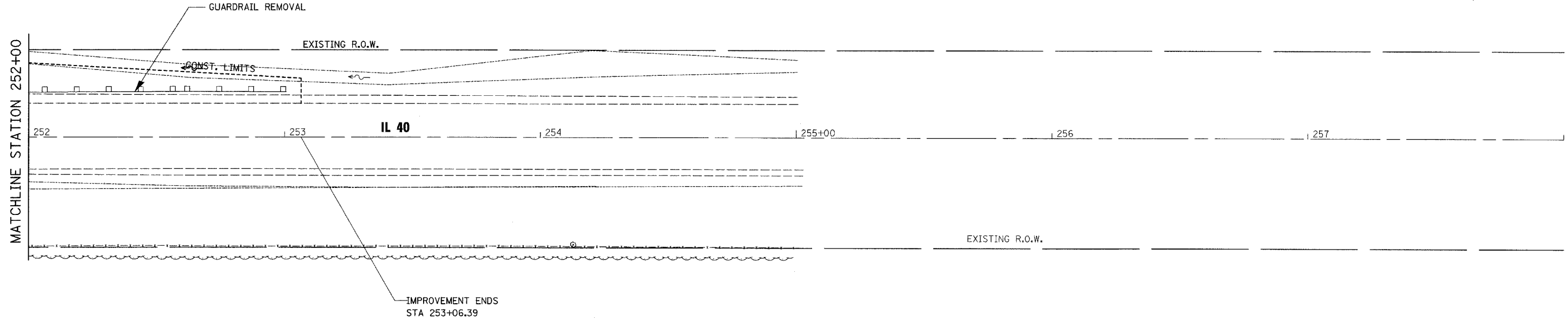
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE

SCALE: 20 SHEET NO. 9 OF 52 SHEETS STA. 240+00 TO STA. 246+00
 F.A.P. RTE. 646 SECTION (5BR-1D) COUNTY CARROLL TOTAL SHEETS 52 SHEET NO. 9
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 64D29

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	REVISIONS	
	REVISIONS	
	DATE	
	FILE NAME	

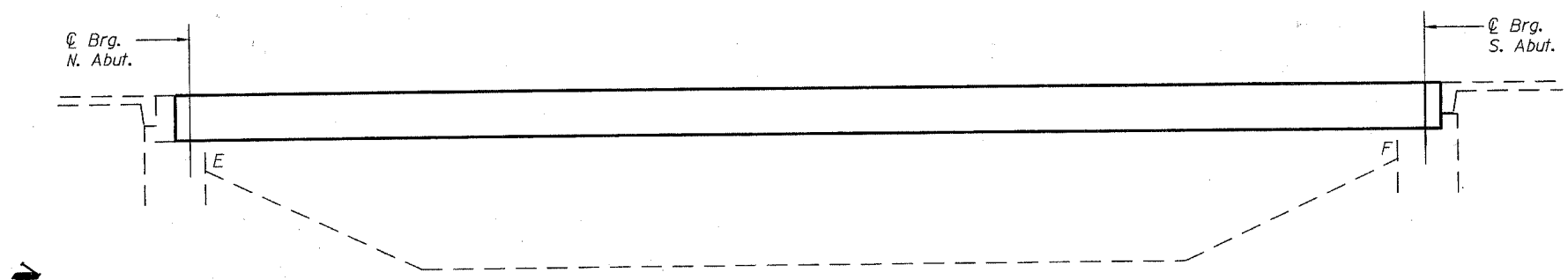
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NOTE BOOK	PLOTTED	BY
NO.	REVISIONS	
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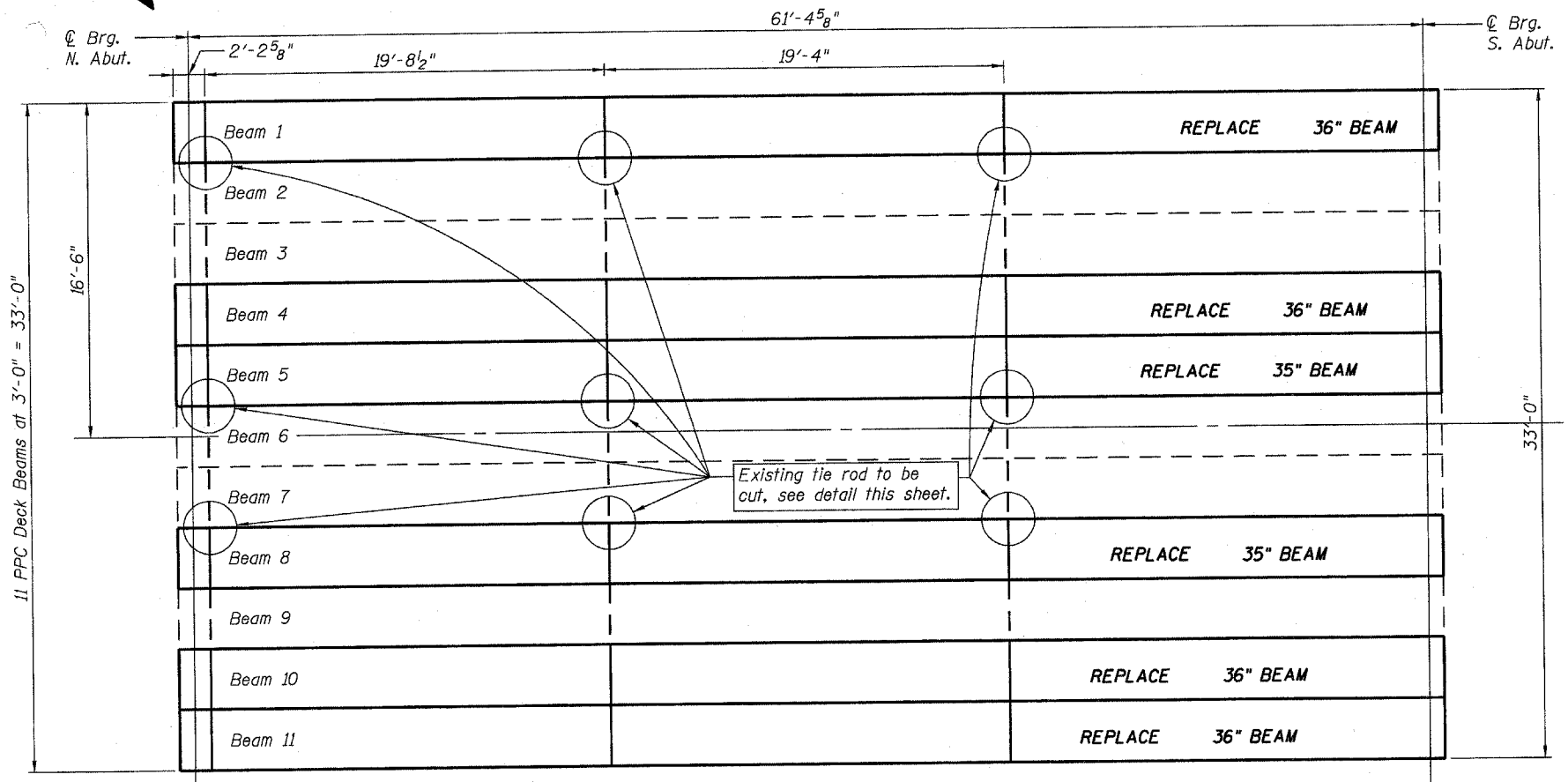
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	PLOT SCALE = 20.0000' / IN.	DRAWN - HJ/FD	REVISED -			SCALE: 20	SHEET NO. 11 OF 52 SHEETS	STA. 252+00 TO STA. 258+00	CONTRACT NO. 64D29		
	PLOT DATE = Wed Oct 24 11:46:23 2007	CHECKED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
		DATE - 9/20/07	REVISED -								

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

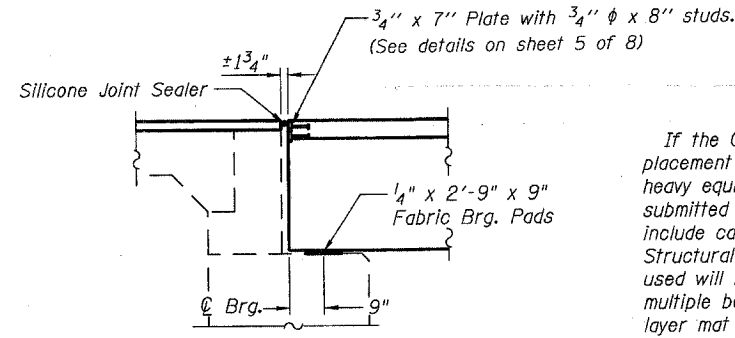
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAP 646		CARROLL	12	8 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



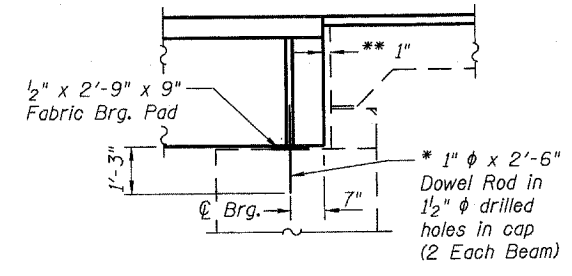
ELEVATION



PLAN



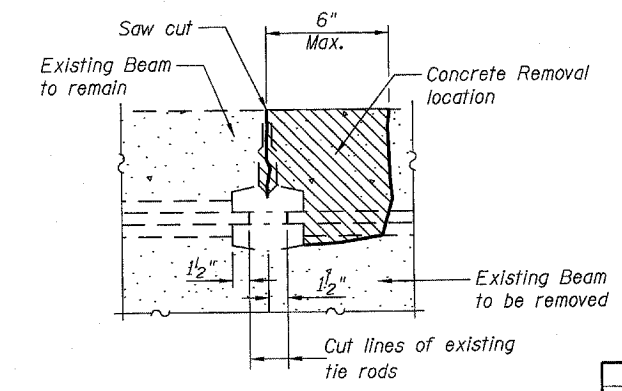
TYPICAL SECTION NORTH ABUTMENT



TYPICAL SECTION SOUTH ABUTMENT

* Existing dowel rods are to be burned off, ground flush, and sealed with epoxy prior to placement of new beams. Cost included in Removal of Existing PPC Deck Beams. After beams have been erected holes shall be drilled into cap and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.

** 1" Joint to be filled with Non-shrink grout. 1" dimension may vary to accommodate tolerance in beam length.



BEAM REMOVAL DETAIL
AT TRANSVERSE TIES

DESIGN STRESSES

CAST IN PLACE
f'c = 5,000 psi (CWS)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" ϕ low lax strands)
f'si = 201,960 psi (1/2" ϕ low lax strands)

GENERAL NOTES

If the Contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of Removal of Existing PPC Deck Beams.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall 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 work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and actual beam camber.

All construction joints shall be bonded.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

The top surface of the beams shall be finished according to the IDOT Manual of Fabrication of Precast Prestressed Concrete Products.

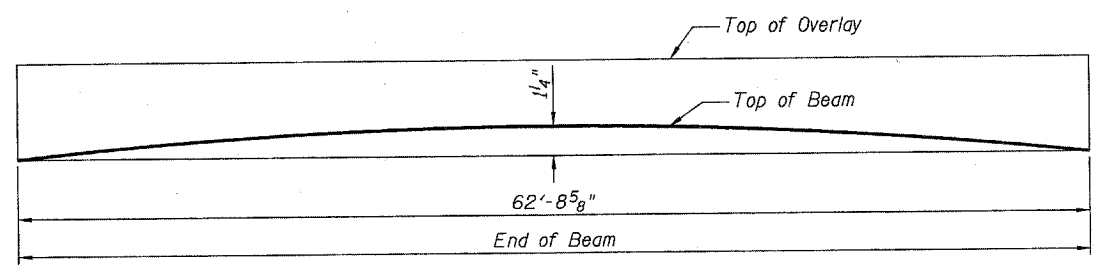
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (27" Depth)	SQ.FT.	1119
Removal of Existing PPC Deck Beams	SQ.FT.	1129
Asbestos Bearing Pad Removal	EACH	6
Steel Railing, Type SM	FOOT	210
Reinforcement Bars, Epoxy Coated	POUND	2200
Concrete Wearing Surface, 5"	SQ.YD.	160.3
Concrete Removal	CU.YD.	5.3
Mechanical Splice	EACH	256
Silicone Joint Sealer	FOOT	33

PLAN AND ELEVATION
F.A.P. 646 (IL RTE 40)
CARROLL COUNTY
STRUCTURE NO. 008-0014



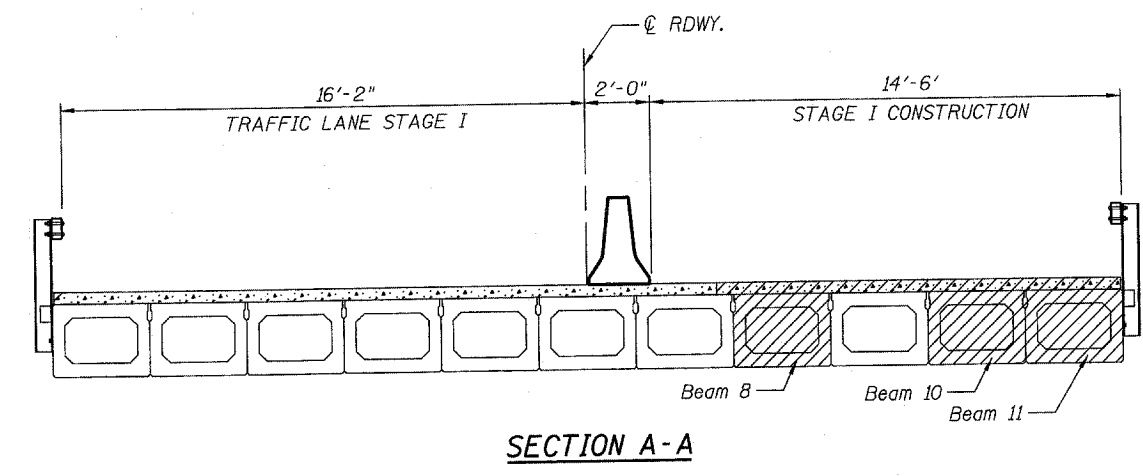
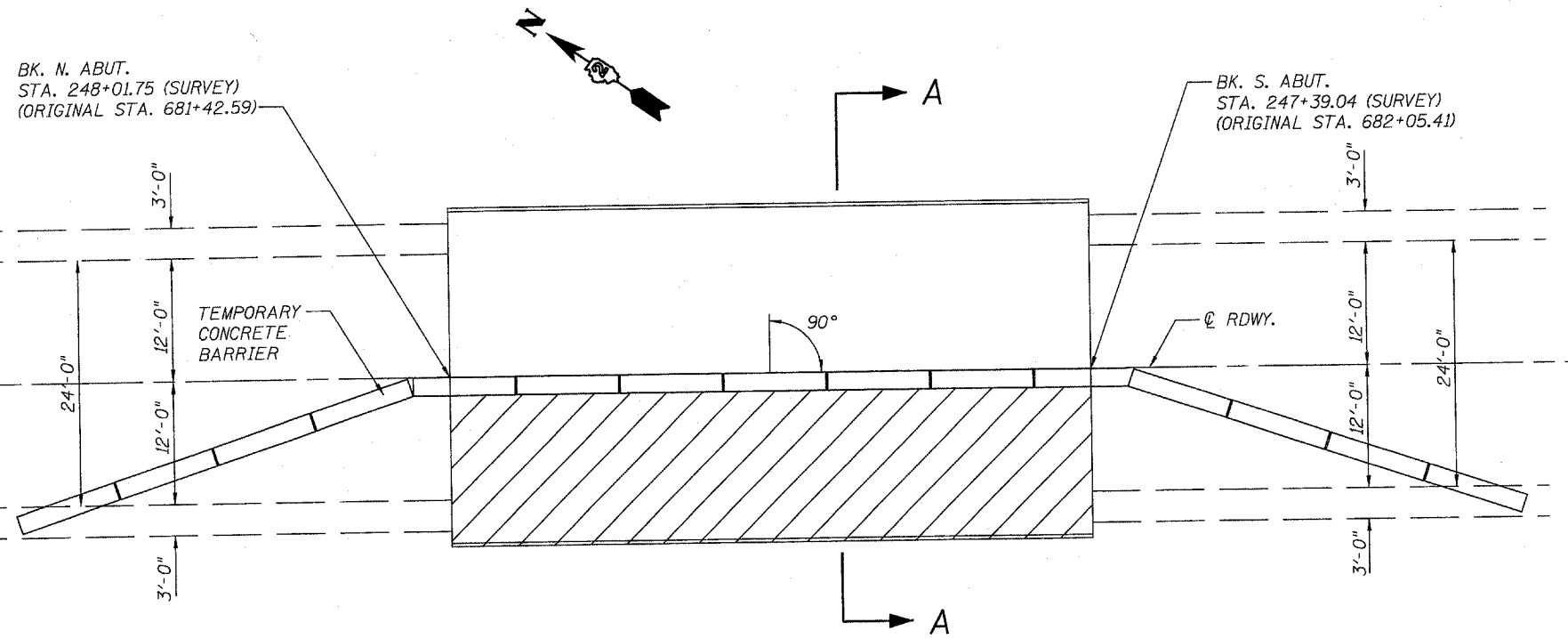
ANTICIPATED INITIAL CAMBER DIAGRAM

David F. Maxwell
David F. Maxwell, S.E. Reg. No. 081-005455
Date: 10/22/07
My registration expires November 30, 2008.

DESIGNED	DFM
CHECKED	CH
DRAWN	MRV
CHECKED	DFM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
FAP 646		CARROLL		13	8 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

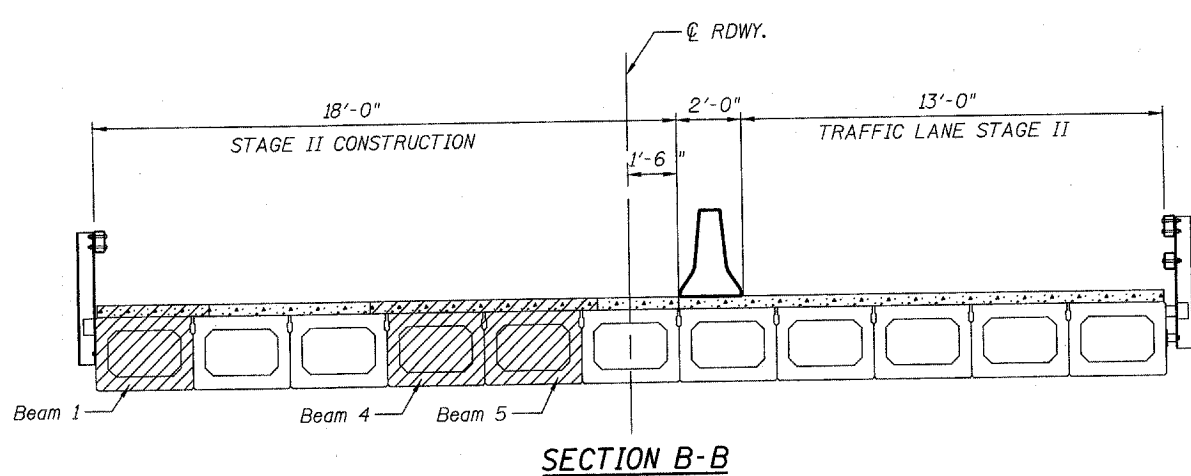
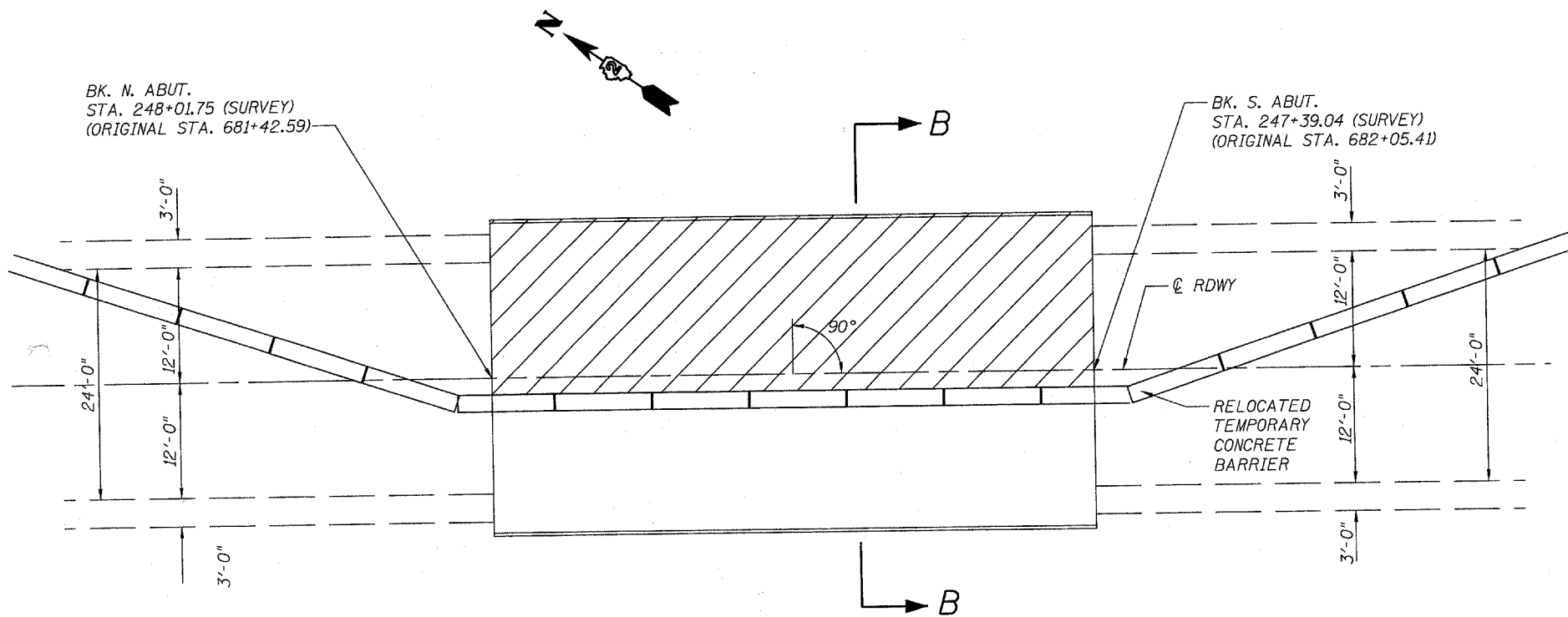


STAGE I CONSTRUCTION

INSTALL TEMPORARY CONCRETE BARRIER AS SHOWN.
MOVE TRAFFIC TO STAGE I TRAFFIC LANE.

SAWCUT CONCRETE DECK, REMOVE DECK OVER BEAMS 8, 9, 10 & 11.
DISCONNECT TIE RODS, AND REMOVE BEAMS 8, 10 & 11.

REPLACE BEAMS, DECK, AND GUARDRAIL.



STAGE II CONSTRUCTION

RELOCATE TEMPORARY CONCRETE BARRIER AS SHOWN.
MOVE TRAFFIC TO STAGE 2 TRAFFIC LANES.

SAWCUT CONCRETE DECK, REMOVE DECK OVER BEAMS 1, 4 & 5.
DISCONNECT TIE RODS, AND REMOVE BEAMS 1, 4 & 5.

REPLACE BEAM, DECK AND GUARDRAIL.

REMOVE TEMPORARY CONCRETE BARRIER.

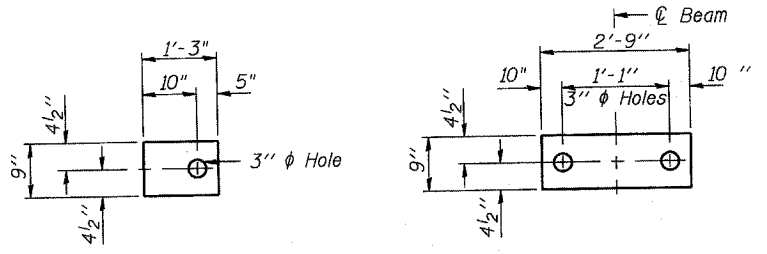
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DRAWN	MV
CHECKED	DFM

STAGING PLAN
F.A.P. 646 (IL RTE 40)
CARROLL COUNTY
STRUCTURE NO. 008-0014
SHEET 13 OF 52

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.P. 646		CARROLL		14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
8 SHEETS



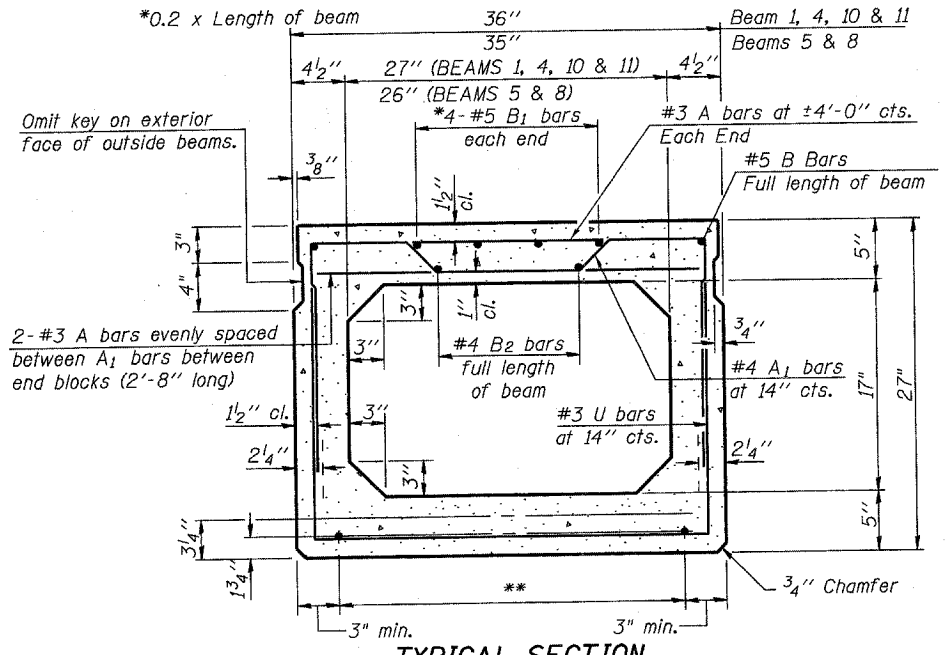
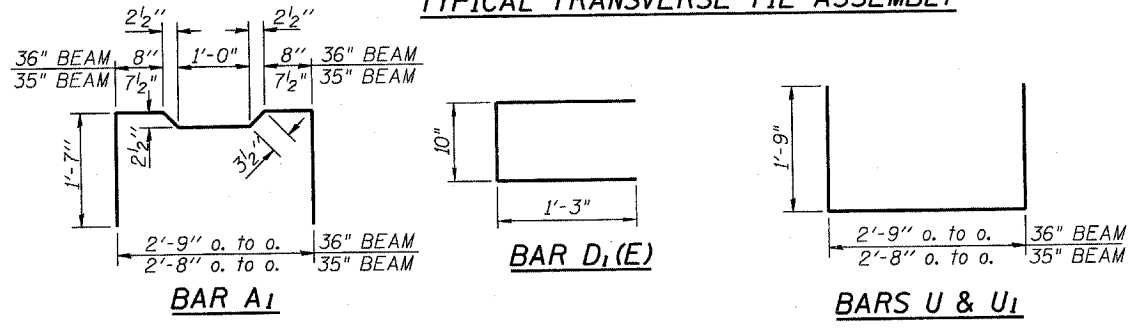
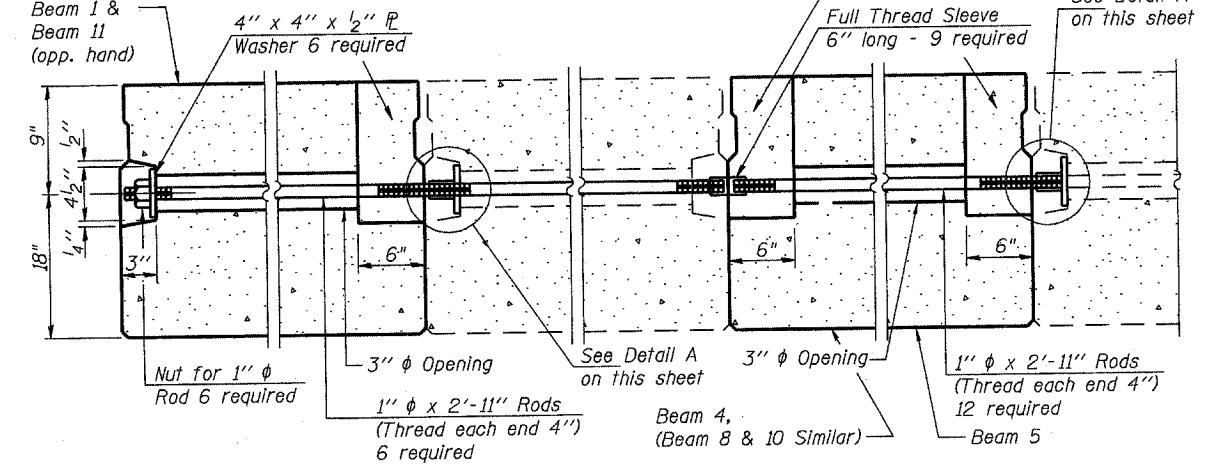
FIXED



EXPANSION

9" x 10" cross hatched area to be filled with Class BS Concrete after beams have been installed. (Existing joints to remain.) Cost shall be included in the cost of "Concrete Wearing Surface."

6" x 6" x 1 1/2" Blockout to be filled with Class BS Concrete after Beams have been installed. Cost shall be included in the cost of "Concrete Wearing Surface". Blockout needed on one side, Beams 1, 4, 5 & 10 and both sides, Beam 8.



****TRANSVERSE PLACEMENT GUIDELINES**

- Place strands symmetrically about centerline of beam.
- The minimum distance from center to center of strands in all directions shall be 2".
- The minimum clearance from strand to dowel hole shall be 1/2".
- The minimum clearance from strand to void shall be 1/2".

Vertical placement of strands shall not be adjusted to satisfy the above guidelines.

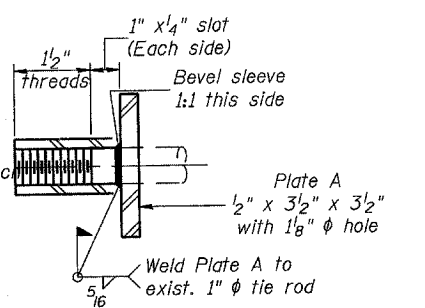
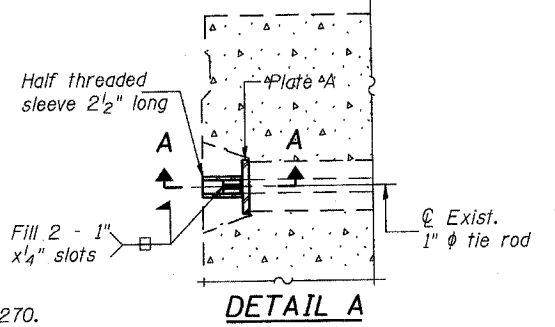
NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - 1/2" phi-270 ksi strands, as shown. The 1" phi rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Non prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

Corrosion Inhibitor, per Article 1020.05(b)(12) of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 5,000 p.s.i. See Sheet 4 of 8 for additional Beam Information.

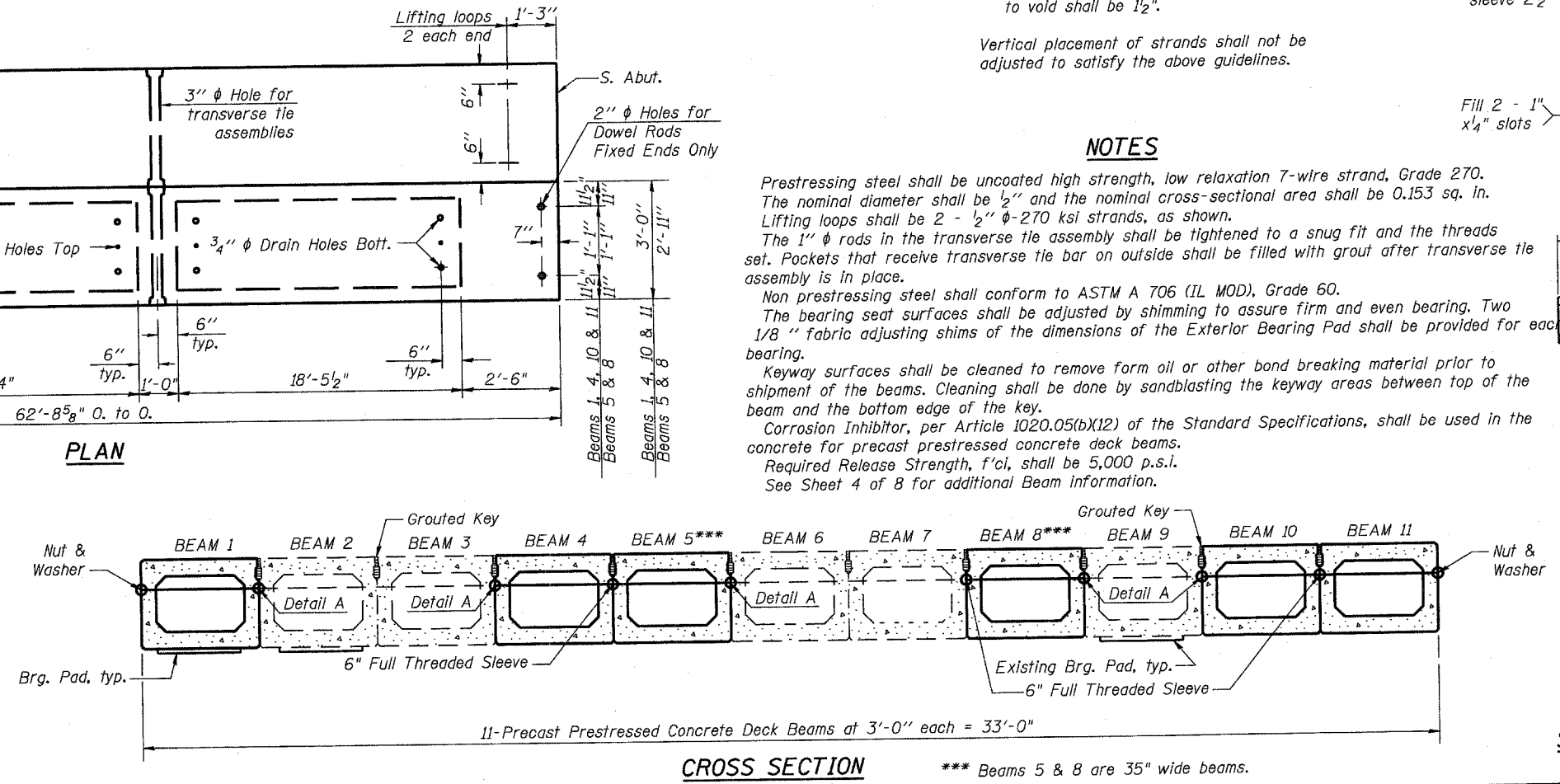
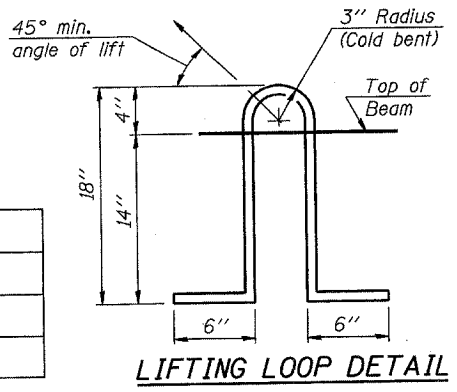


BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms.	Sq. Ft.	1,119
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DECK BEAM DETAILS
F.A.P. 646 (IL RTE 40)
CARROLL COUNTY
STRUCTURE NO. 008-0014
SHEET 14 OF 52

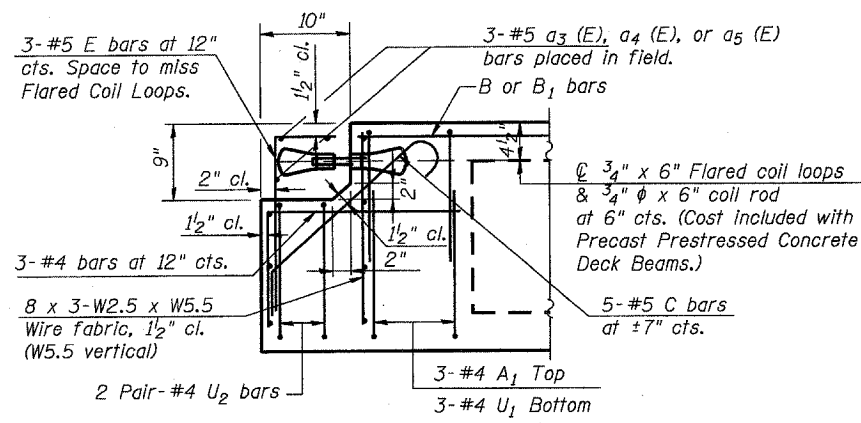
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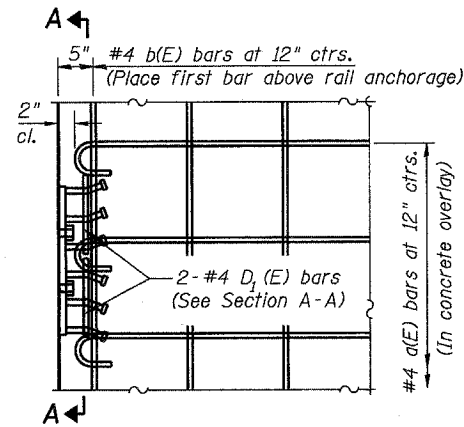
*** Beams 5 & 8 are 35" wide beams.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

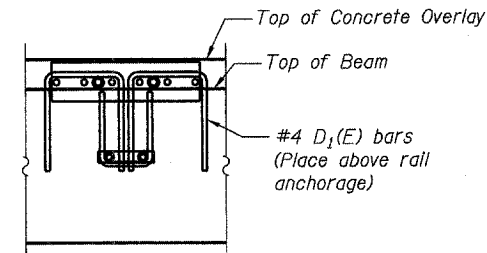
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.P. 646		CARROLL	15	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS



END ELEVATION
(Expansion End)

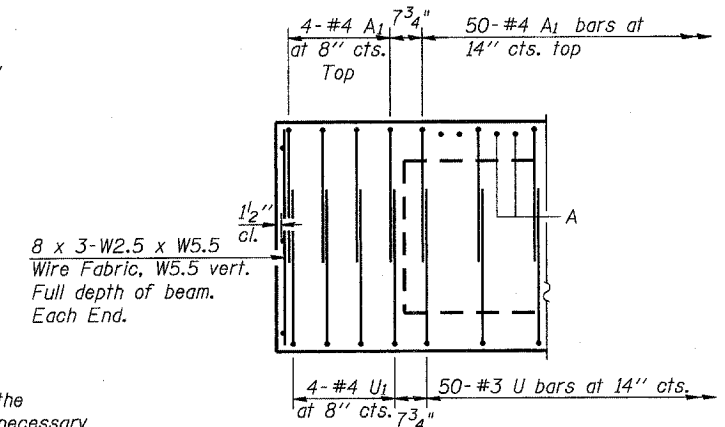


PARTIAL DECK PLAN AT RAIL ANCHORAGE

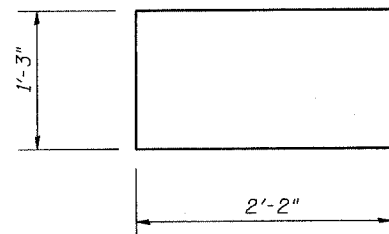


SECTION A-A

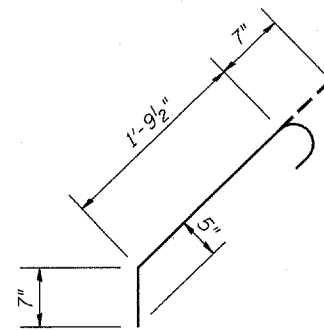
The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.



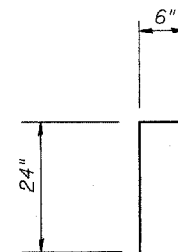
END ELEVATION
(Fixed End)



BAR U₂



BAR C

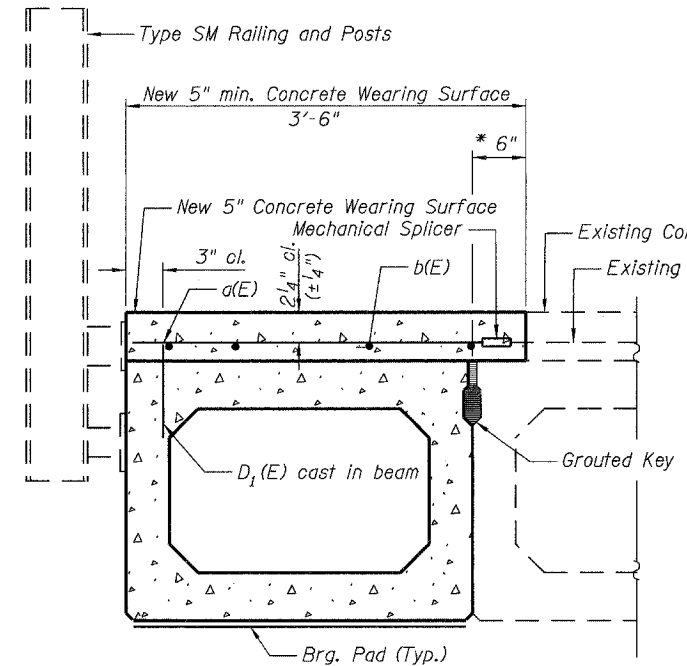
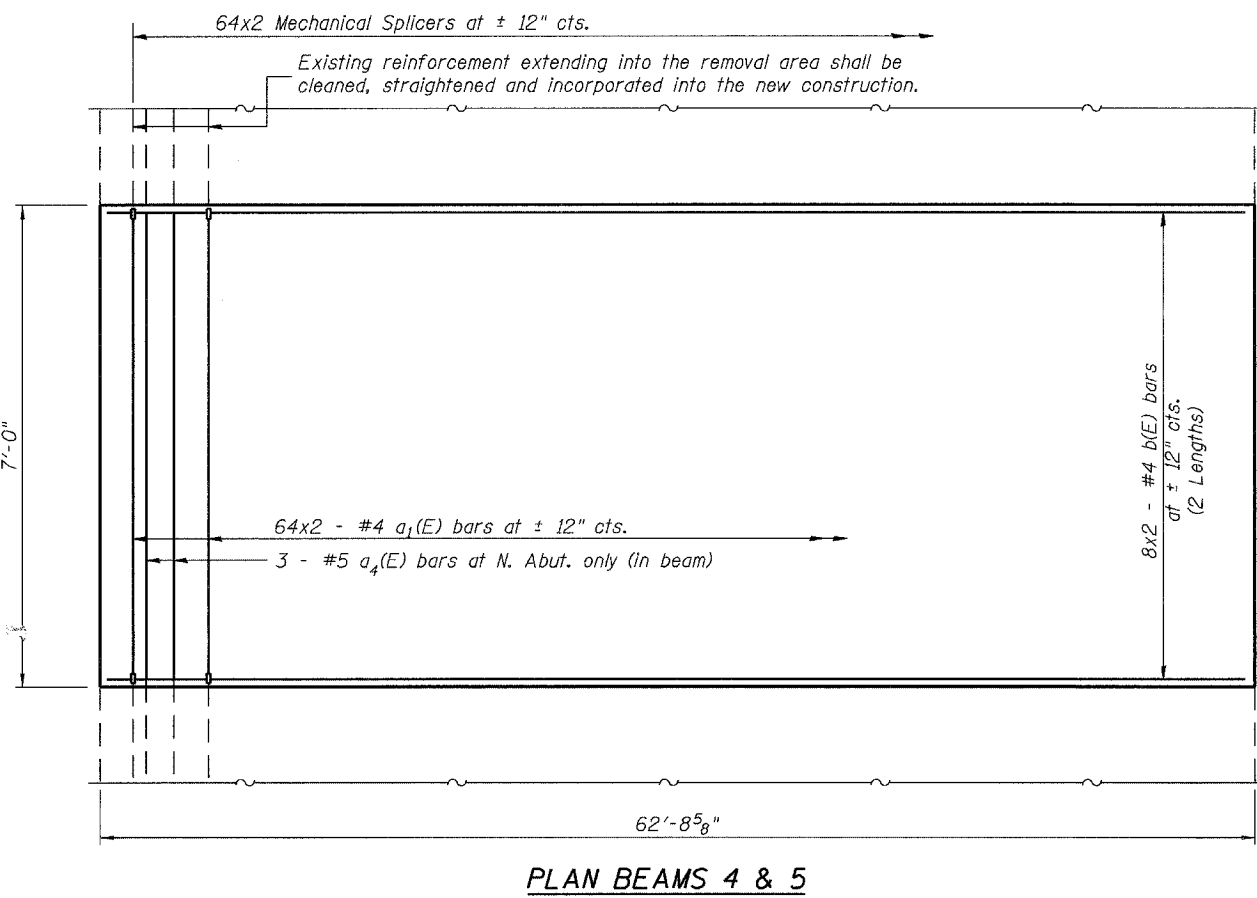
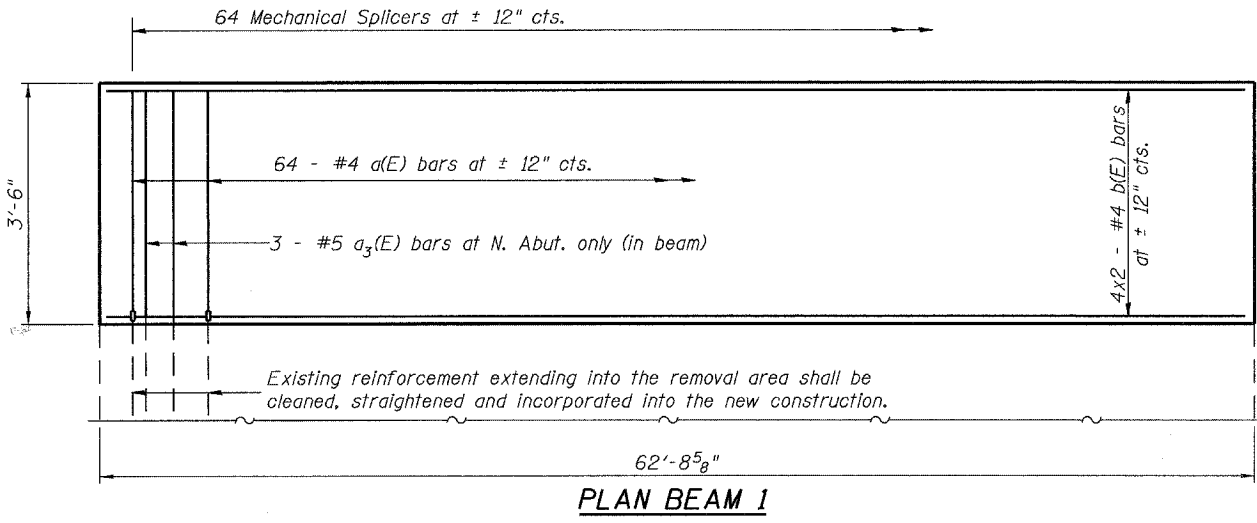


BAR E

Note: Transverse tie rods are not required at block-out end of beams.
See sheet 3 of 8 for additional beam information.

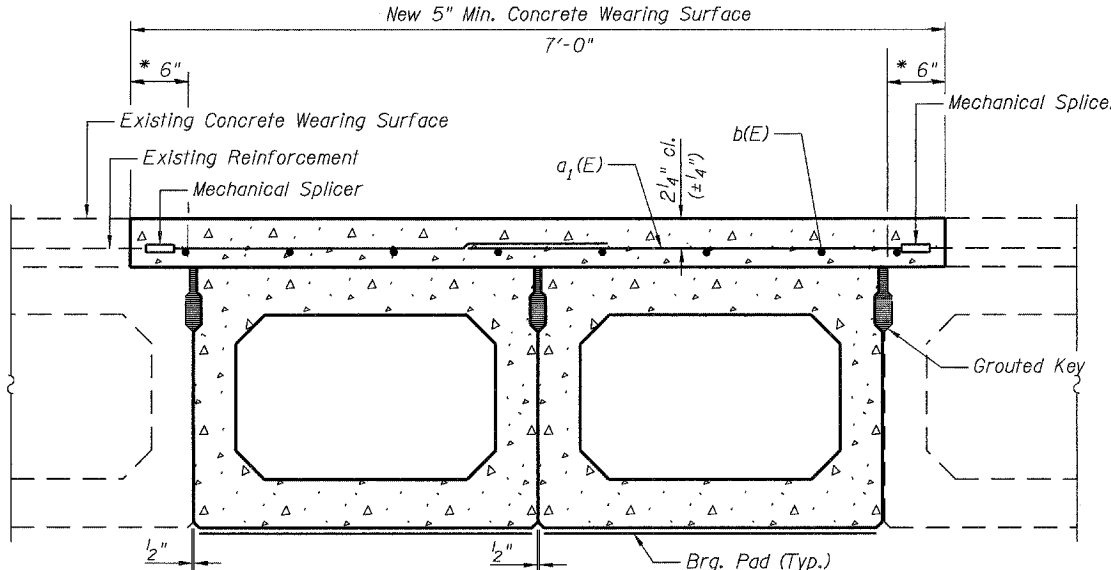
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DRAWN	MV
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DECK BEAM DETAILS
F.A.P. 646 (IL RTE 40)
CARROLL COUNTY
STRUCTURE NO. 008-0014
SHEET 15 OF 52



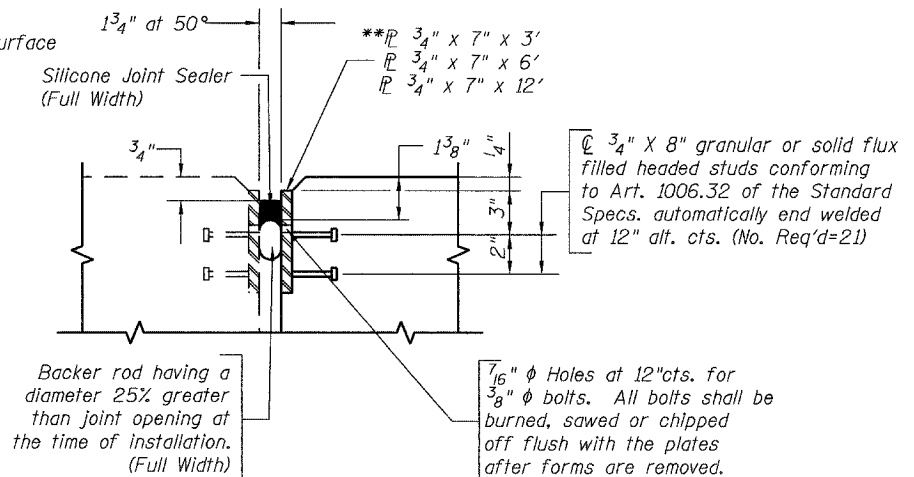
SECTION THRU BEAM 1

* Limits of 5" min. Concrete Wearing Surface Removal. Cost Included with Concrete Removal.



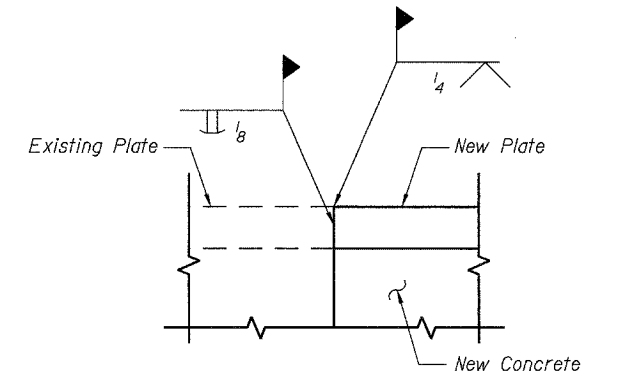
SECTION THRU BEAMS 4 & 5

* Limits of 5" min. Concrete Wearing Surface Removal. Cost included with Concrete Removal.



SILICONE JOINT SEAL

**After fabrication, all surfaces of the steel P's shall be painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost of furnishing and erecting and painting the structural steel is included with Silicone Joint Sealer.



ELEVATION JOINT PLATE WELD

Cost Included with Silicone Joint Sealer

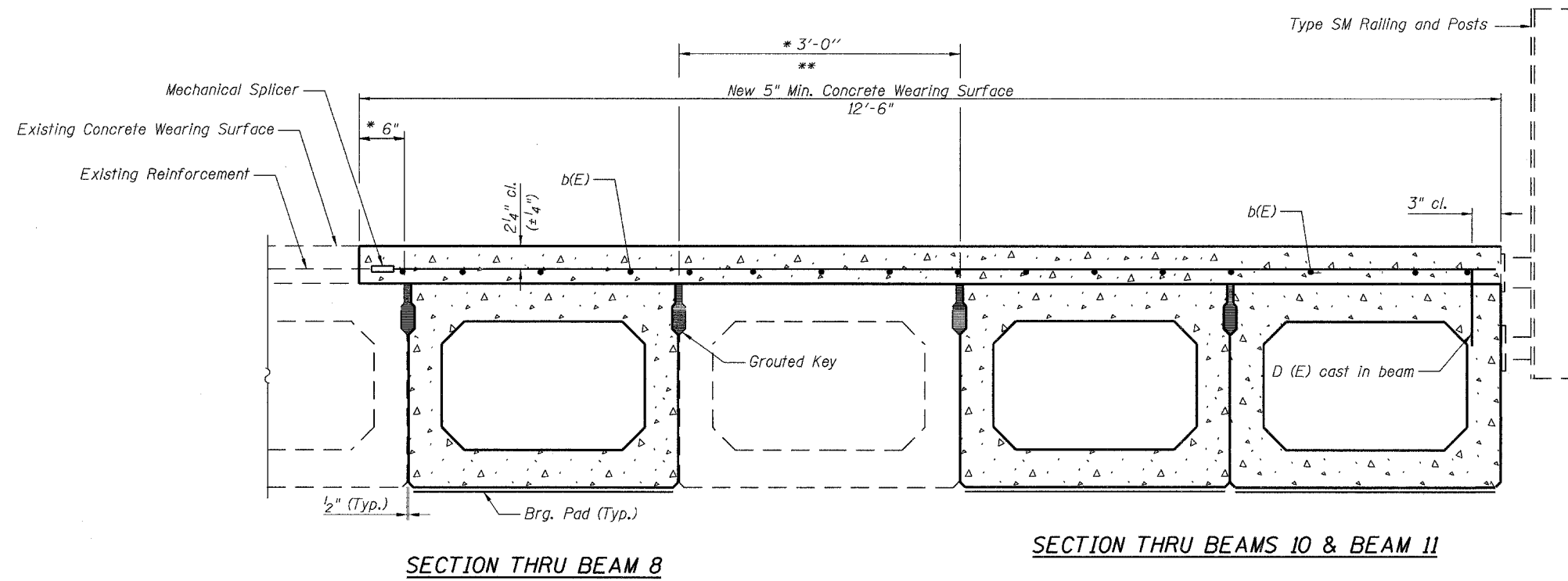
BILL OF MATERIALS

See Sheet 6 of 8.

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DRAWN	MV
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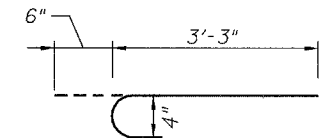
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 646	SECTION -	COUNTY CARROLL	TOTAL SHEETS 8	SHEET NO. 17	SHEET NO. 6 8 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

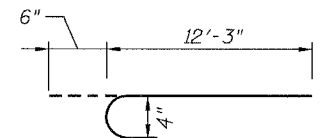


MIN. BAR LAP

#4 bar = 1'-4"
#5 bar = 1'-8"



a₁(E) BAR



a₂(E) BAR

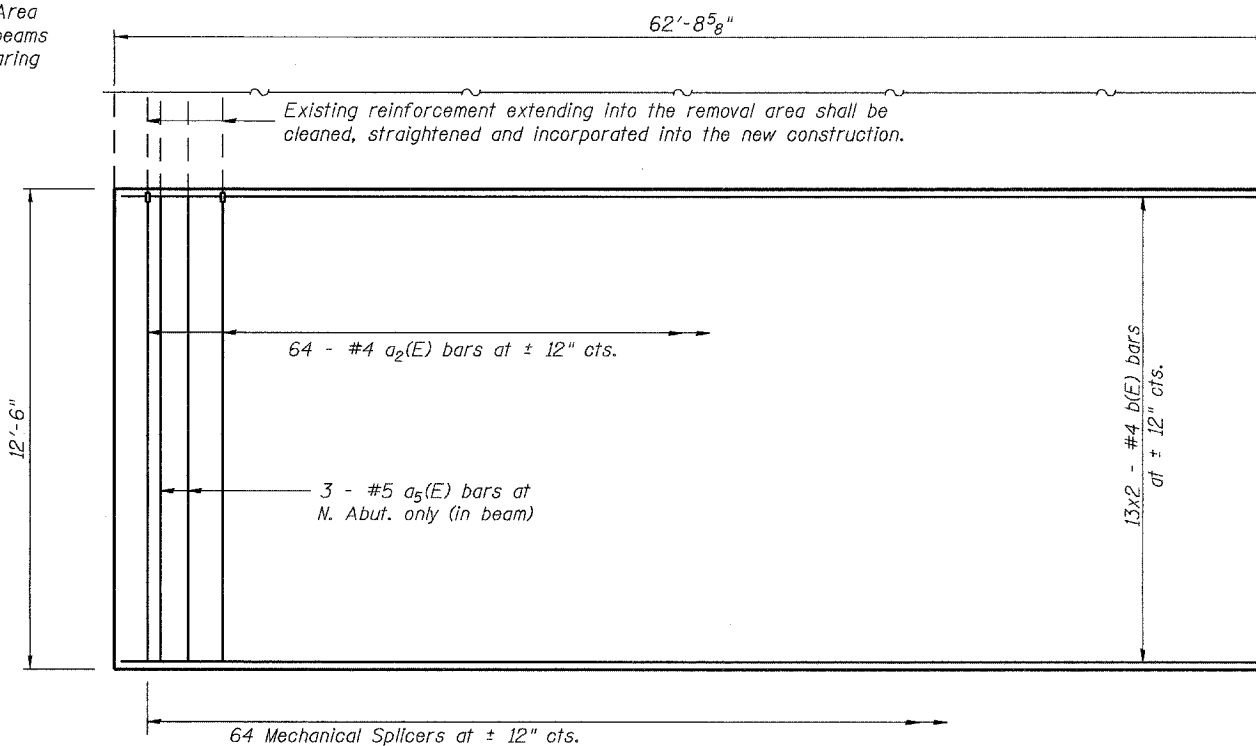
* Limits of 5" min. Concrete Wearing Surface Removal. Cost included with Concrete Removal.

** Remove a 9" x 10" blockout area at expansion end of Beam 9 to allow placement of #5 a₅(E) bars. Existing Reinforcement extending into the removal area shall be cleaned straightened and incorporated into the new construction. Cost Included with Concrete Removal. Area to be filled with Class BS Concrete after the new beams have been installed. Cost included with Concrete Wearing Surface.

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
a(E)	64	#4	3'-9"	
a ₁ (E)	128	#4	4'-2"	
a ₂ (E)	64	#4	12'-9"	
a ₃ (E)	3	#5	2'-9"	
a ₄ (E)	3	#5	5'-9"	
a ₅ (E)	3	#5	11'-9"	
b(E)	50	#4	32'-1"	
Reinforcement Bars, Epoxy Coated			Pound	2200
Conc. Wearing Surface			Sq. Yd.	160.3
Concrete Removal			Cu. Yd.	5.3
Mechanical Splicers			Each	256

Bars indicated thus 42 x 2-#4 etc. Indicates 42 line of bars with 2 lengths per line.



PLAN BEAMS 8 to 11

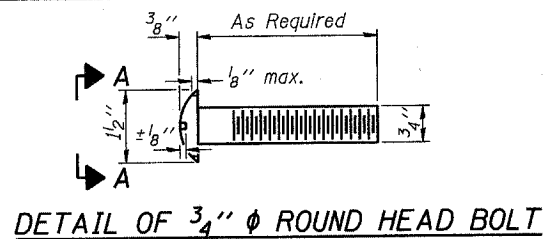
SUPERSTRUCTURE DETAILS
F.A.P. 646 (IL RTE 40)
CARROLL COUNTY
STRUCTURE NO. 008-0014
SHEET 17 OF 52

DESIGNED	DFM
CHECKED	CH
DRAWN	MV
CHECKED	DFM

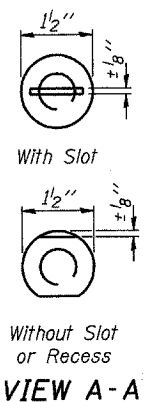
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 646		CARROLL	18	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

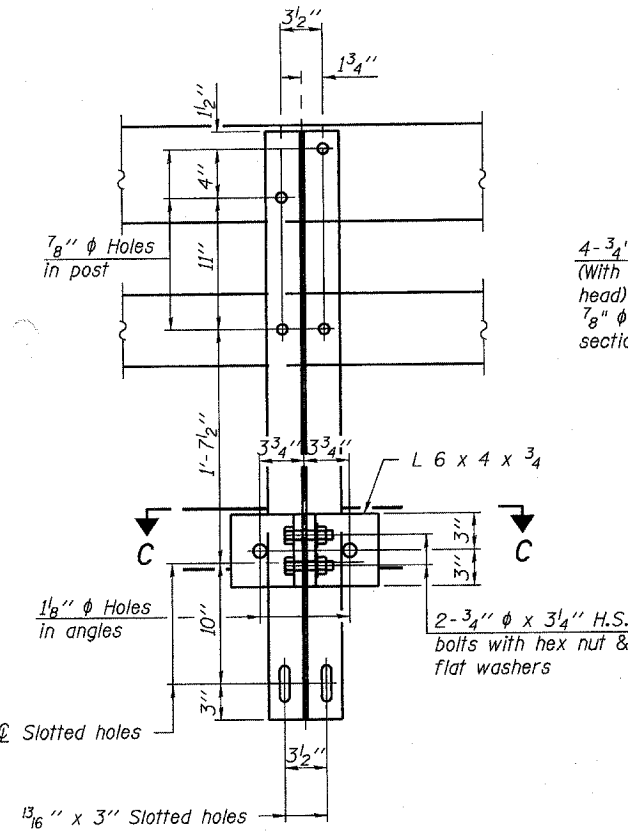
SHEET NO. 7
8 SHEETS



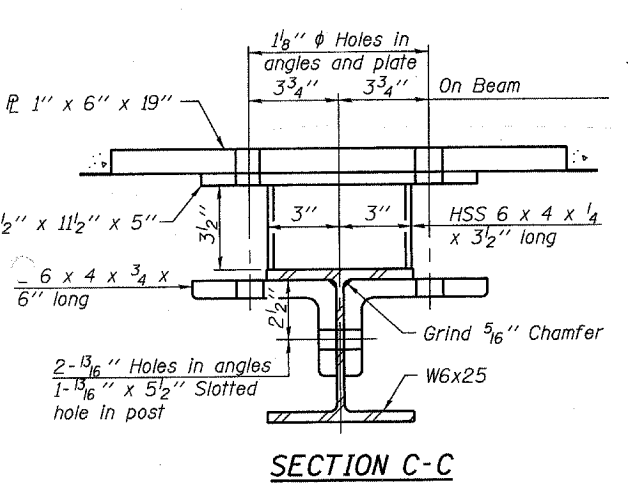
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



VIEW A-A



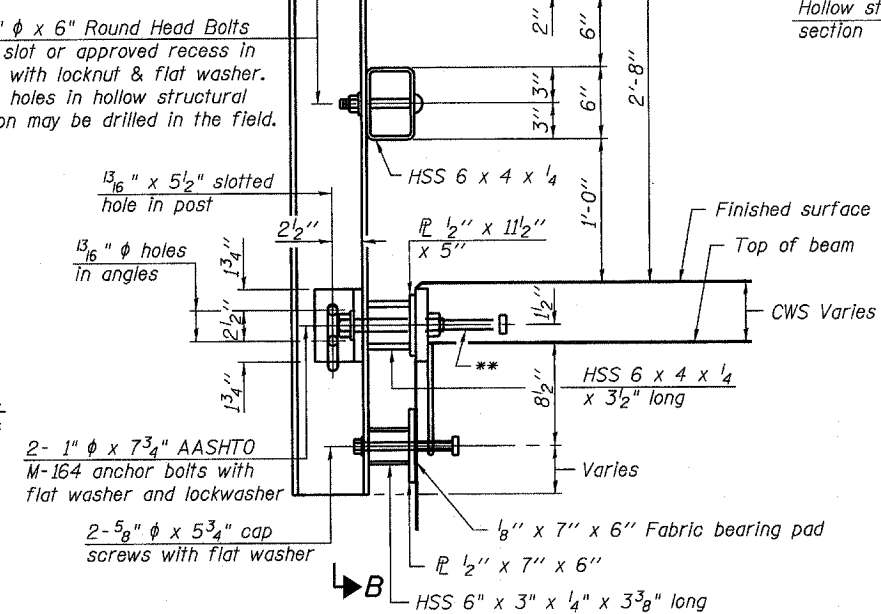
SECTION B-B



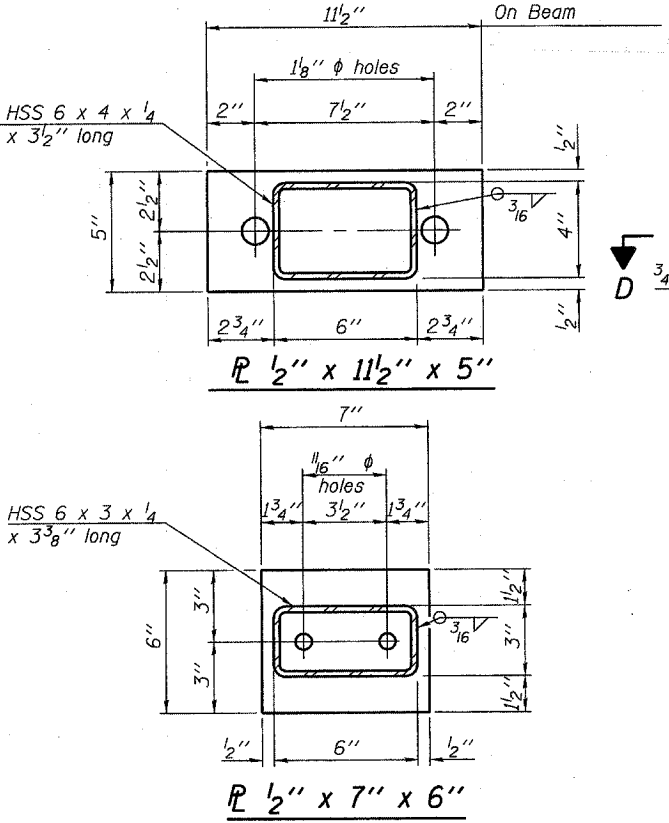
SECTION C-C

DESIGNED	DFM
CHECKED	CH
DRAWN	MV
CHECKED	DFM

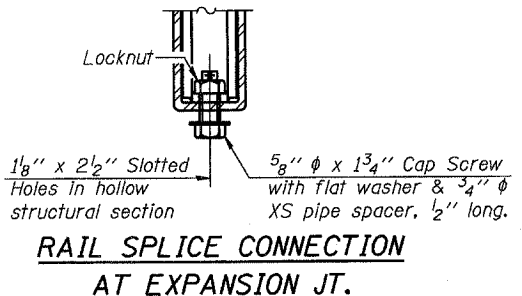
(6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)



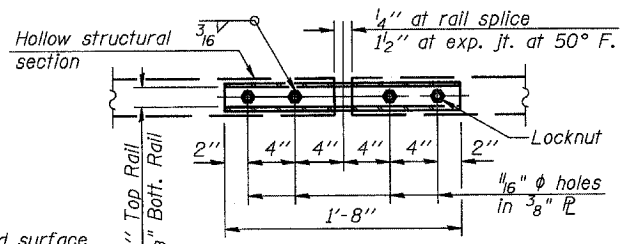
SECTION AT RAIL POST ON BEAM



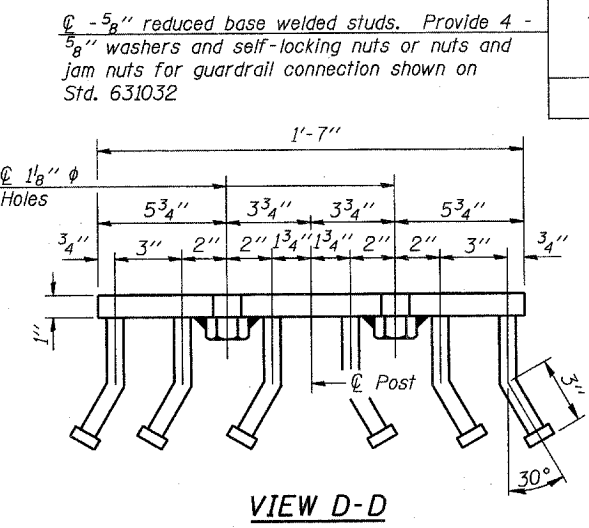
ANCHOR DEVICE



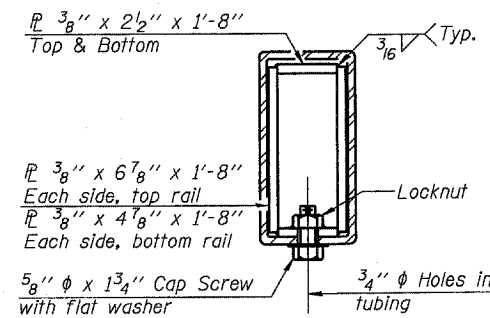
RAIL SPLICE CONNECTION
AT EXPANSION JT.



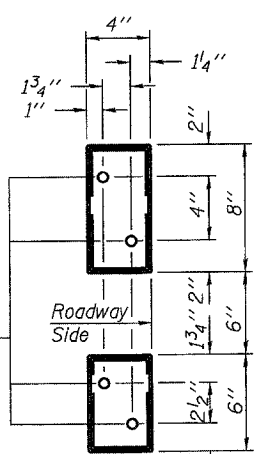
PLAN-BOTT. SPLICE R
TYPICAL



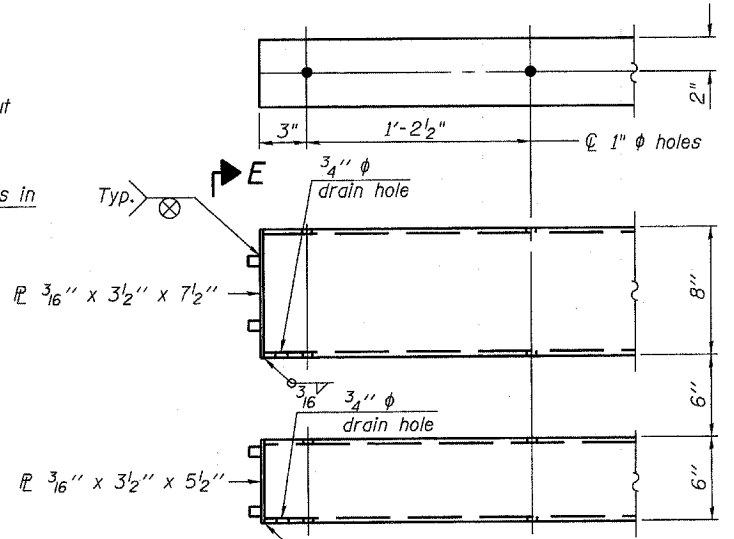
VIEW D-D



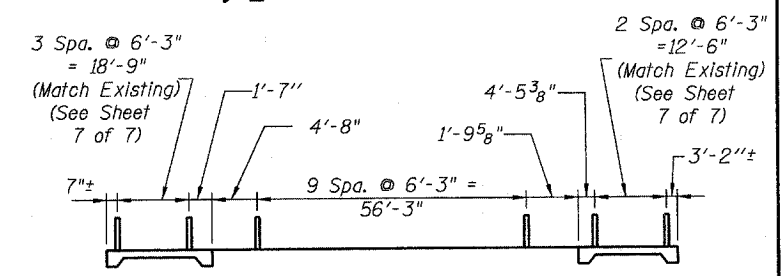
SECTION AT
RAIL SPLICE



VIEW E-E



END OF RAIL DETAILS



RAIL SPACING

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.
Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
Anchor devices in existing approach slabs should be reused for attachment of Type SM Steel Bridge Railing.
The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

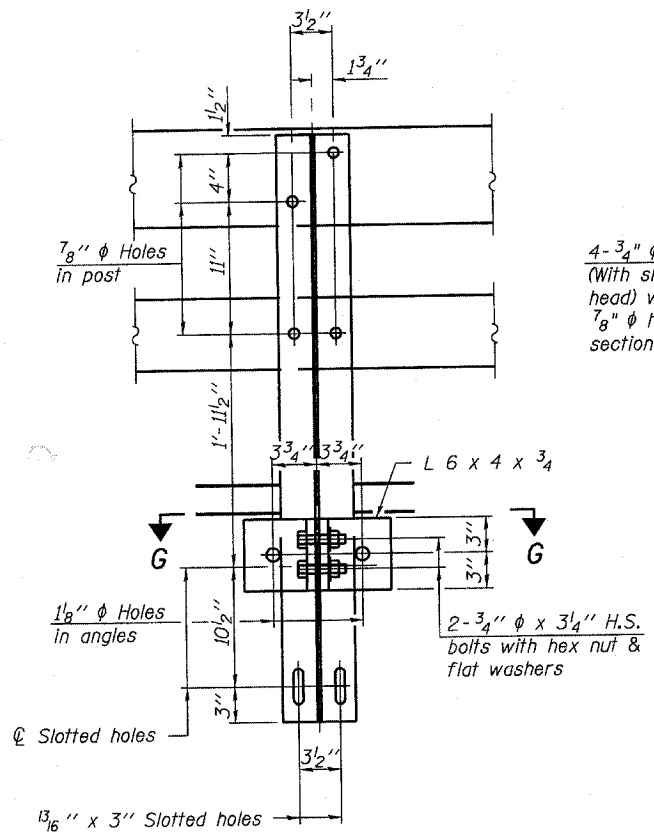
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	210

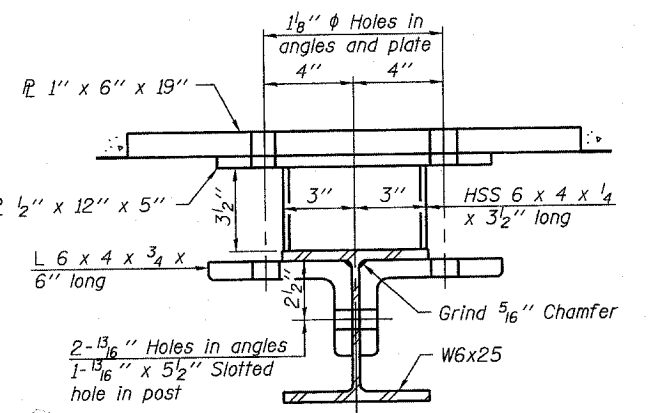
STEEL RAILING, TYPE SM
WITH CONCRETE WEARING SURFACE
F.A.P. 646 (IL RTE 40)
CARROLL COUNTY
STRUCTURE NO. 008-0014

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

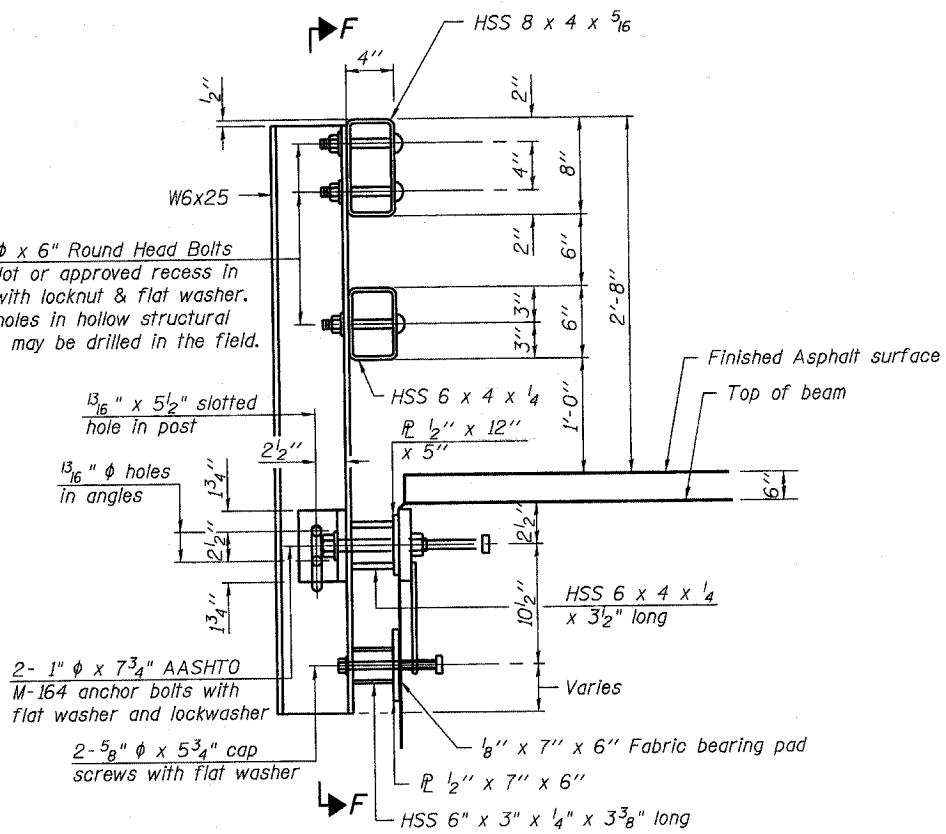
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



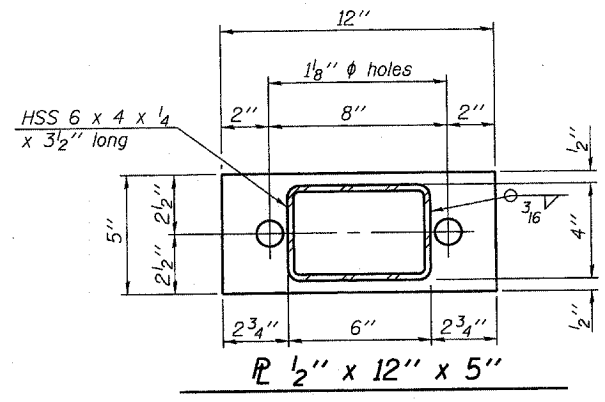
SECTION F-F



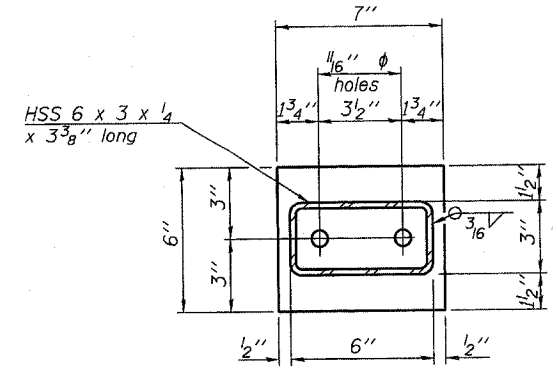
SECTION G-G



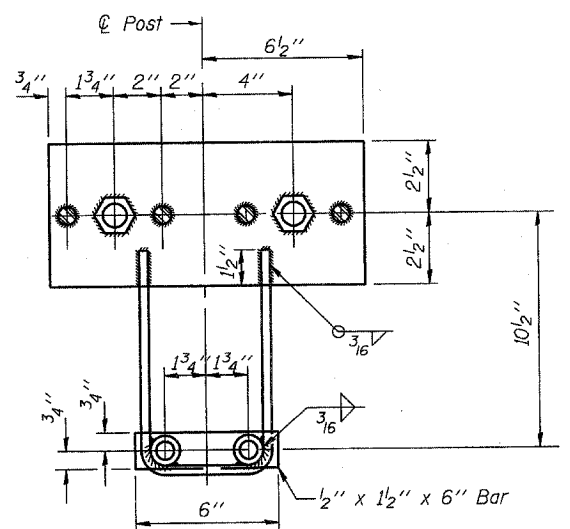
SECTION AT RAIL POST ON APPROACH SLAB



PL 1/2" x 12" x 5"



PL 1/2" x 7" x 6"



EXISTING ANCHOR DEVICE IN APPROACH

(6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

DESIGNED	DFM
CHECKED	CH
DRAWN	MV
CHECKED	DFM

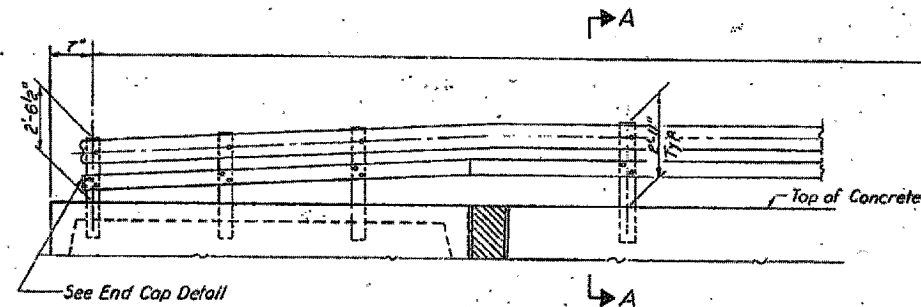
See Sheet 7 of 8 for additional details and notes.

**STEEL RAILING, TYPE SM
ON APPROACH SLAB
F.A.P. 646 (IL RTE 40)
CARROLL COUNTY
STRUCTURE NO. 008-0014
SHEET 19 OF 52**

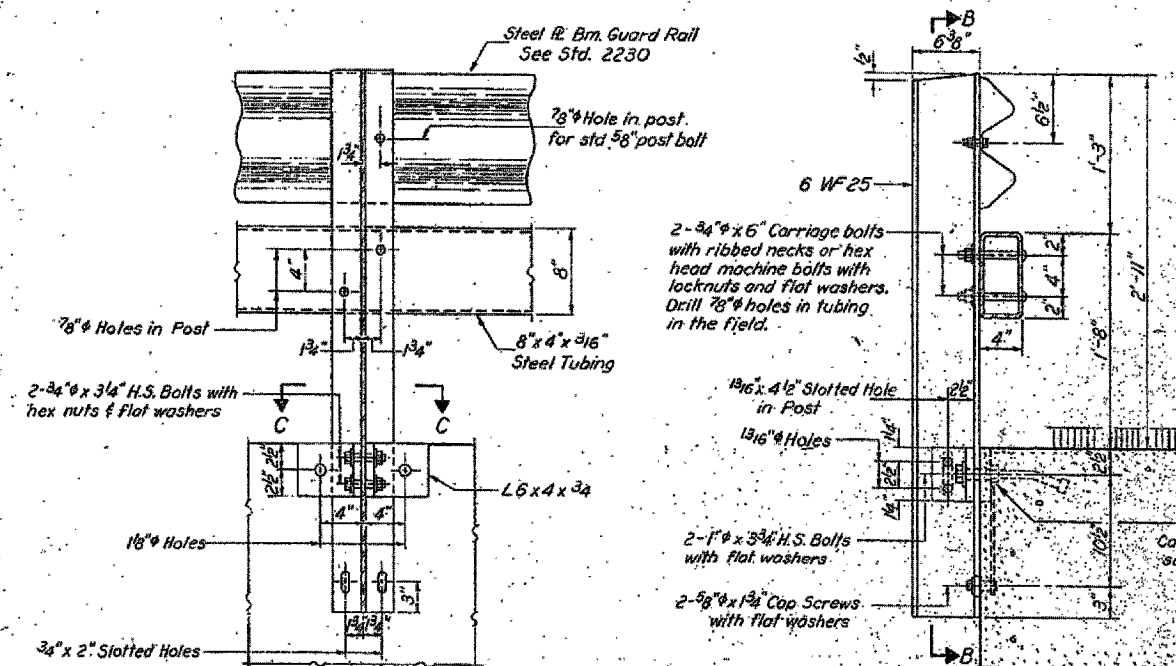
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

16'- Post Spaces at 6'-3" = 100'-0"

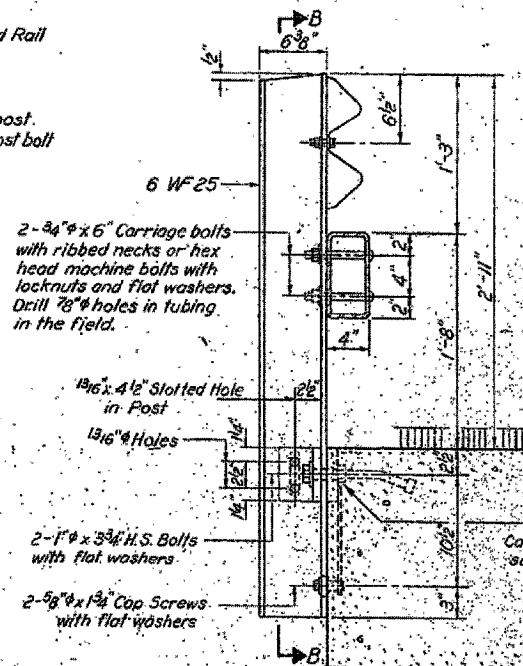
SECTION	DATE	BY	NO.	SHEET NO.
10-20-50	CAPBALL	16	15	6 SHEETS



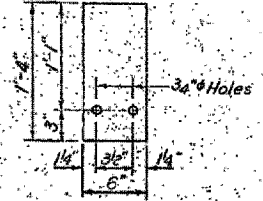
ELEVATION (Looking East)
Showing inside face of railing



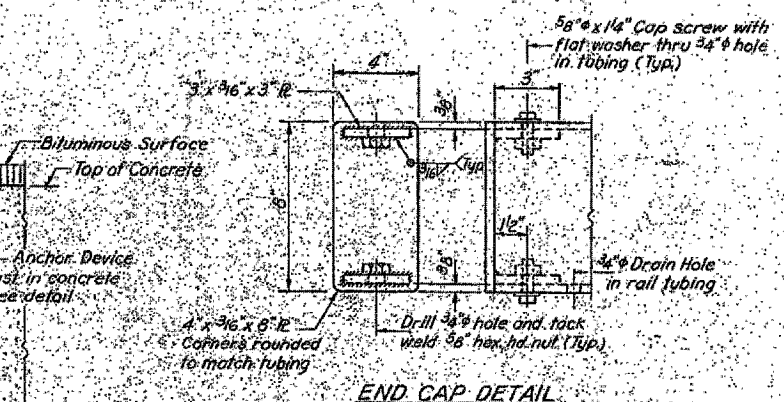
SECTION B-B



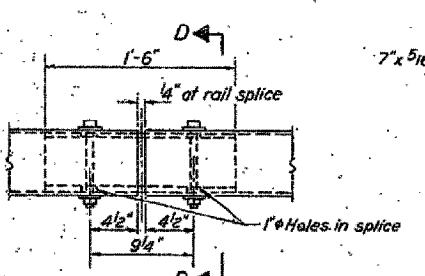
SECTION A-A



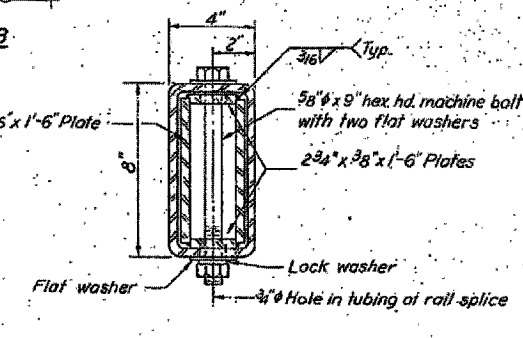
SHIM DETAIL



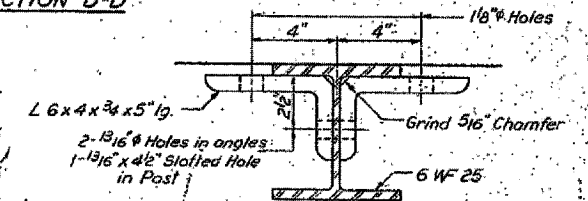
END CAP DETAIL
4 Required



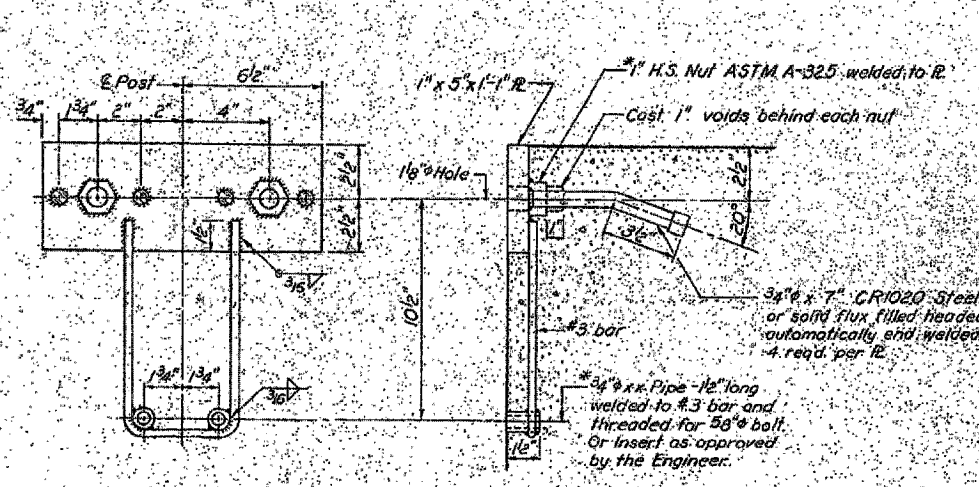
RAIL SPLICE



SECTION D-D



SECTION C-C



ANCHOR DEVICE

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-501 "Hot Formed Welded and Seamless Carbon Steel Structural Tubing."

All other steel shapes and plates shall conform to the requirements of ASTM designation A-441 or A-36.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high-strength bolts, nuts and washers noted which shall conform to ASTM designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with ASTM designation A-153.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with ASTM designation A-123 and A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE W.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2\"

The 3/4\"

For multi-span bridges, sufficient 1/4\"

BILL OF MATERIAL

Item	Unit	Quantity
STEEL RAILING, TYPE W	Lm. FL.	200

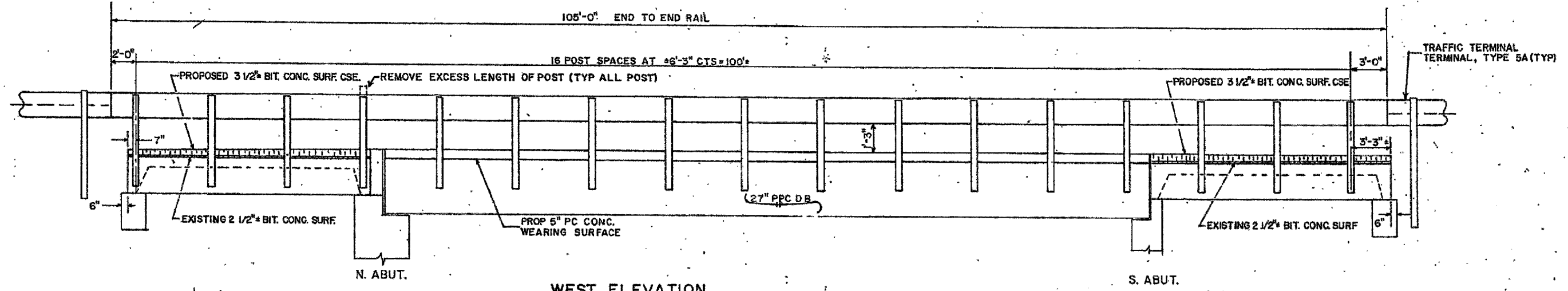
DESIGNED R.O.G.K.
CHECKED D.A.R.
S.L.
DRAWN J.L. Armstrong
CHECKED D.A.R.

EXAMINED M.E.S. 1971
PASSED H.G. Baumann
APPROVED Richard A. Holtermann
CHIEF ENGINEER

INFORMATION ONLY

ROUTE NO.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 646	CARROLL	9	7
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT		

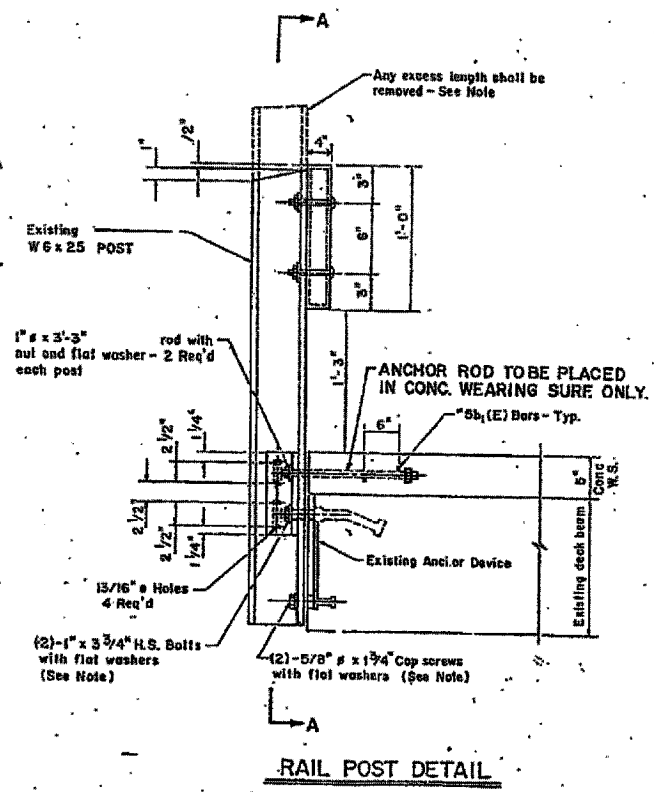
* SECTION 5 BR-1-M



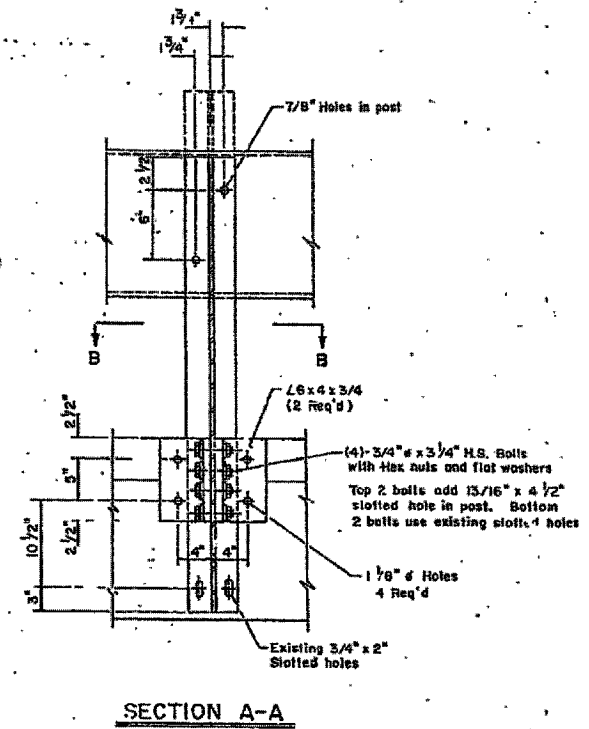
WEST ELEVATION
(FACING EAST) EAST ELEV. SIMILAR

NOTES:

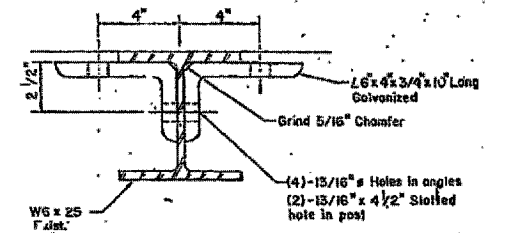
- THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF THE EXISTING RAIL ELEMENTS.
- ALL OTHER STEEL SHAPES AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-270 GRADE 36 EXCEPT ANGLES SHALL CONFORM TO AASHTO M-270, GRADE 50.
- BOLTS, CAP SCREWS, AND NUTS SHALL CONFORM TO THE REQUIREMENT OF ASTM DESIGNATION A-307 EXCEPT FOR HIGH STRENGTH BOLTS, NUTS AND WASHERS NOTED WHICH SHALL CONFORM TO AASHTO M-184.
- ALL BOLTS, NUTS, CAP SCREWS, WASHERS AND LOCK WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-232.
- ALL ANGLES SHALL BE GALVANIZED AFTER SHOP FABRICATION IN ACCORDANCE WITH AASHTO M-111 AND ASTM A-385. GALVANIZED RAIL SHALL NOT BE PAINTED.
- ALL FIELD DRILLED HOLES AND SLOTS INCLUDING ANY BARE METAL AREAS OR POSTS FROM CUTTING SHALL BE PAINTED BEFORE ERECTION WITH ZINC RICH PAINT.
- THE LOWER PORTION OF THE POST FLANGE IN CONTACT WITH CONCRETE SHALL RECEIVE A 1/8" FABRIC BEARING PAD BETWEEN THE POST AND CONCRETE.
- THE 3/4" Ø HIGH STRENGTH BOLTS USED TO CONNECT THE 6 X 4 X 3/4 ANGLES TO THE POST SHALL BE TIGHTENED IN ACCORDANCE WITH ARTICLE 505.04(1)(3) OF THE STANDARD SPECIFICATION. THE 1" Ø HIGH STRENGTH BOLTS CONNECTING THE ANGLES TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN. THE 5/8" Ø CAP SCREWS IN BOTTOM OF POSTS SHALL BE TIGHTENED TO A SNUG FIT ONLY.
- STEEL RAILING, TYPE S-1 (SPECIAL) INCLUDES FURNISHING AND ERECTING OF ALL GALVANIZED RAIL, ANGLES, BOLTS, NUTS, WASHERS, SHIM PLATES, RODS, REMOVAL OF EXISTING STEEL RAILING AND RETROFITTING EXISTING RAIL POST.
- CONTRACTOR SHALL PROVIDE SUFFICIENT SHIMS, H.S. BOLTS, NUTS AND FLAT WASHERS TO REALIGN EXISTING RAILING. BOLT LENGTH AND CAP SCREW LENGTH TO BE DETERMINED IN THE FIELD WHEN SHIMS ARE USED. COST TO BE INCLUDED IN THE UNIT PRICE PER FOOT FOR STEEL RAILING TYPE S-1(SPECIAL).



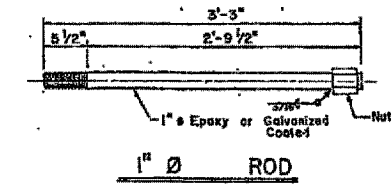
RAIL POST DETAIL



SECTION A-A



SECTION B-B



BILL OF MATERIALS

ITEM	QUANTITY
STEEL RAILING TYPE S-1 (SPECIAL)	

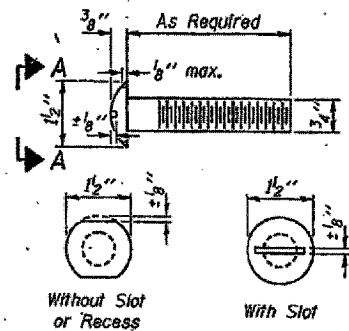
SN 008-0014

DISTRICT NO. 2
INFORMATION ONLY

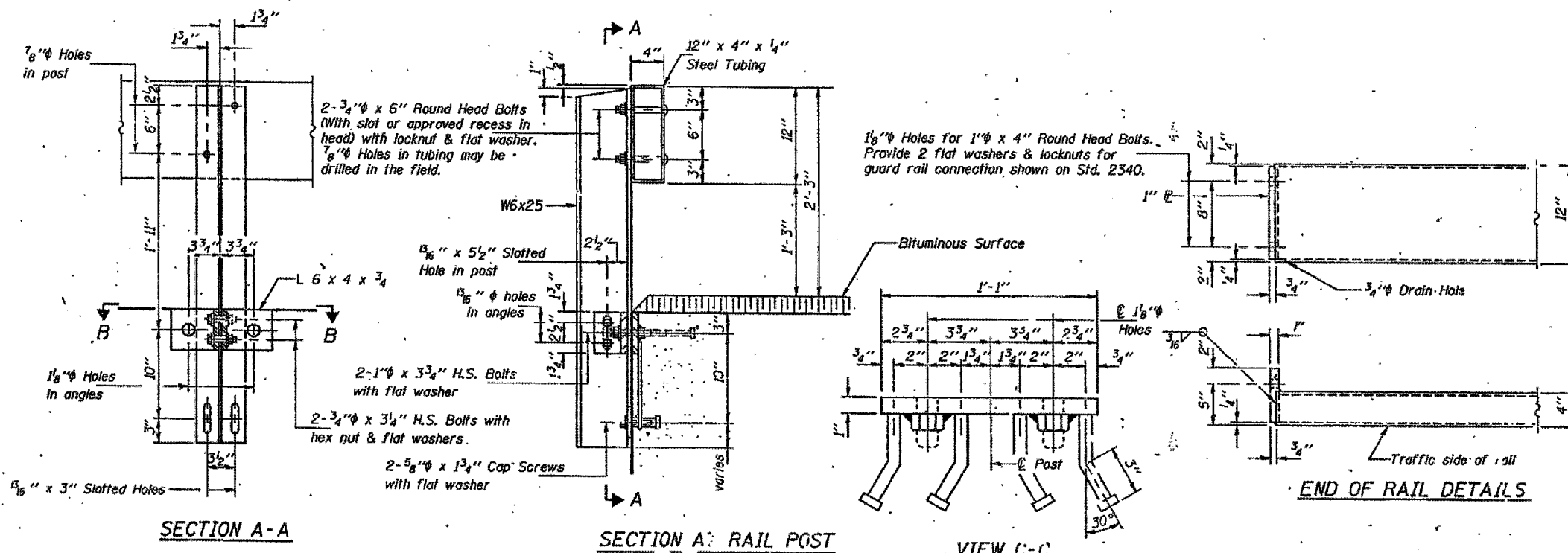
REVISED 3-22-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	SHEETS	POST	SHEET NO.
640	1	CARROLL	9	8	2
* 5BR-1-M					SHEETS



VIEW A-A
ROUND HEAD BOLT



NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M-270 Grade 36 except posts and angles shall conform to AASHTO M-270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.

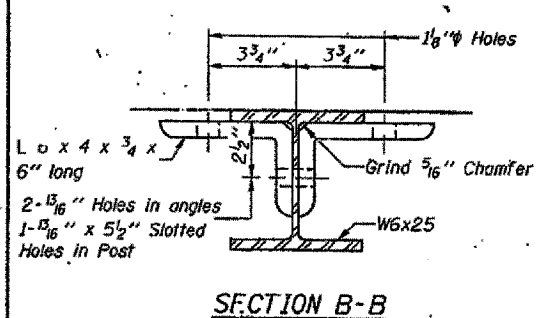
Railing shall be in accordance with Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE S-1.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

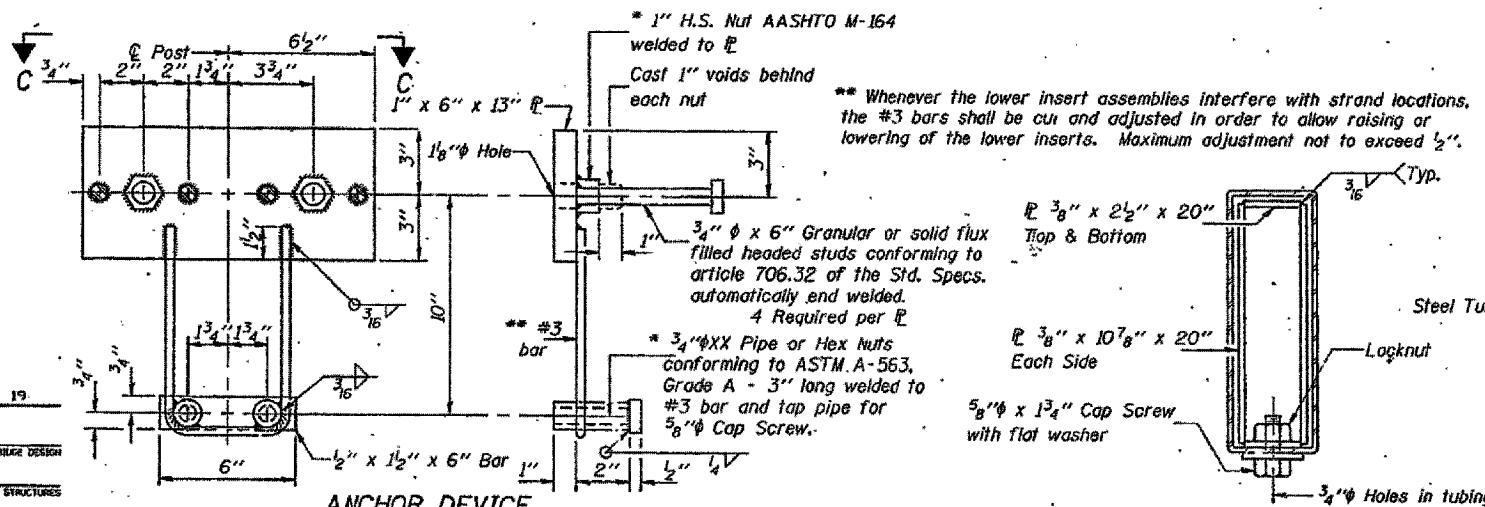
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 760.07 Type II or place 1/2 inch fabric bearing pad between the post and concrete.

The 3/4 inch high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 505.04(F)(3) of the Standard Specifications. The 1 inch high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8 inch cap screws in bottom of posts shall be tightened to a snug fit only.

END OF RAIL DETAILS

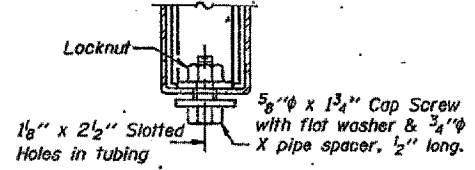


SECTION B-B

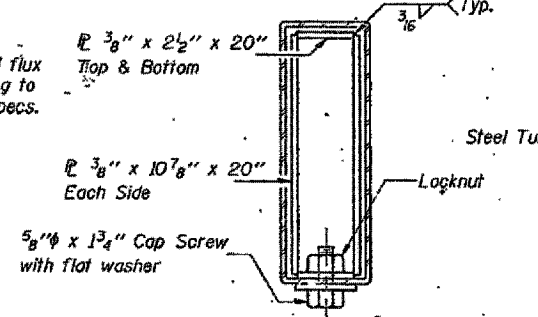


ANCHOR DEVICE

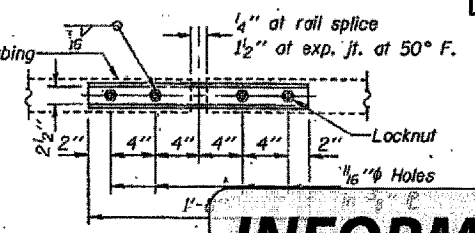
* Threaded areas shall be plugged or covered with a cap screw.



RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTIONS AT RAIL SPLICE



PLAN-BOTTOM TYPICAL

FOR INFORMATION ONLY

BILL OF MATERIAL

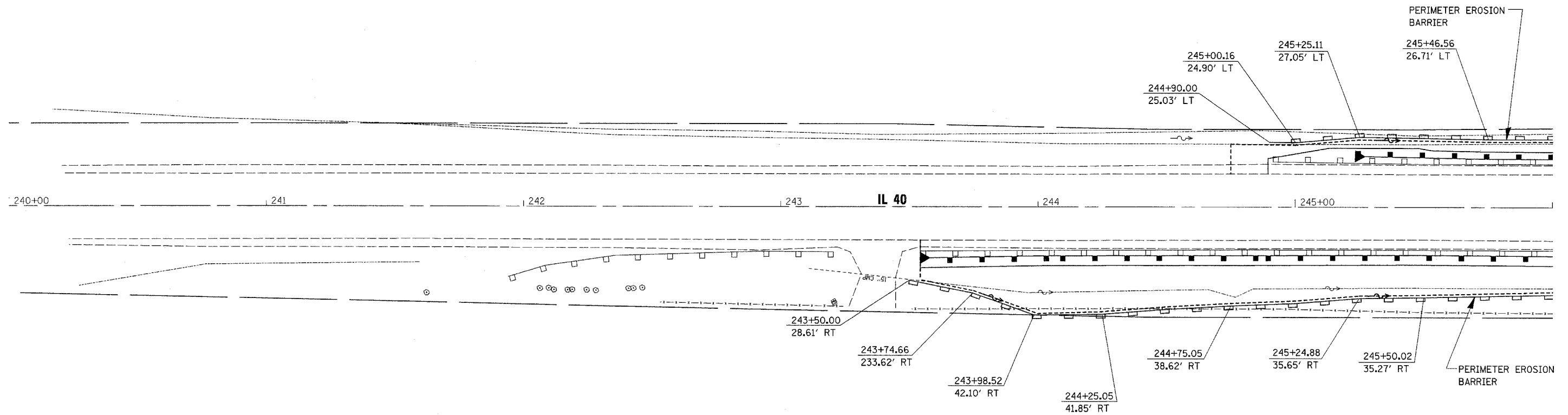
Item	Unit	Quantity
Steel Railing Type S-1	Foot	

TYPE S-1
STEEL RAILING

SN 003-0014
INFORMATION ONLY

DESIGNED	19
CHECKED	
DRAWN	
CHECKED	

PERIMETER EROSION CONTROL BARRIER DETAIL



FILE NAME = c:\projects\p206987\d06987p\indgn	USER NAME = duncanfe	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

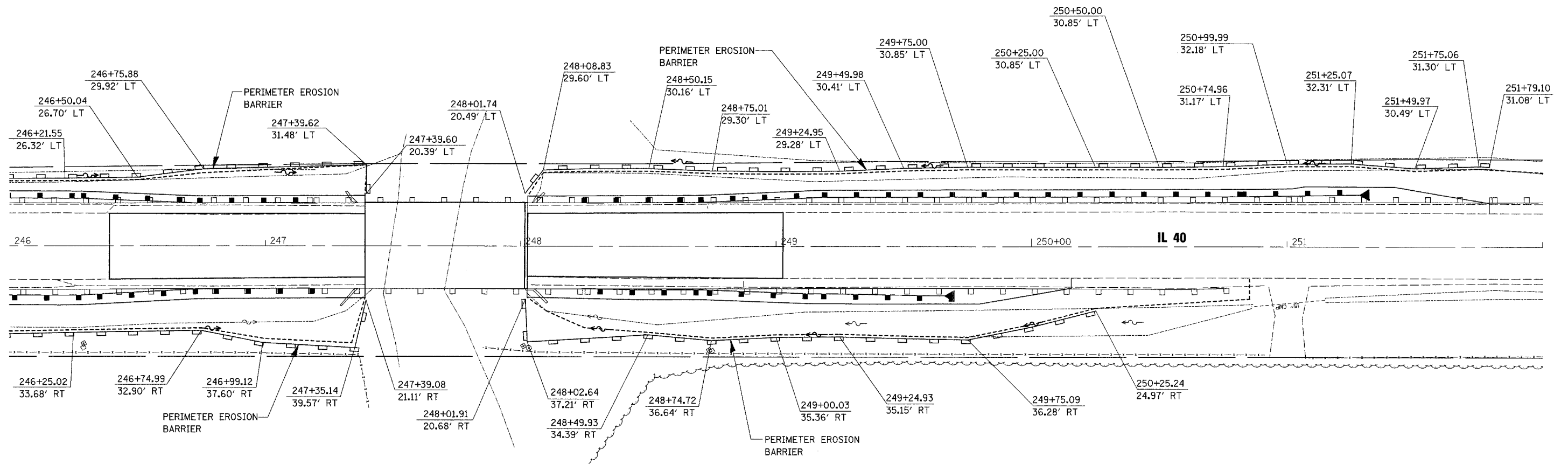
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PERIMETER EROSION CONTROL SHEETS

SCALE: 20 SHEET NO. 23 OF 52 SHEETS STA. 240+00 TO STA. 246+00

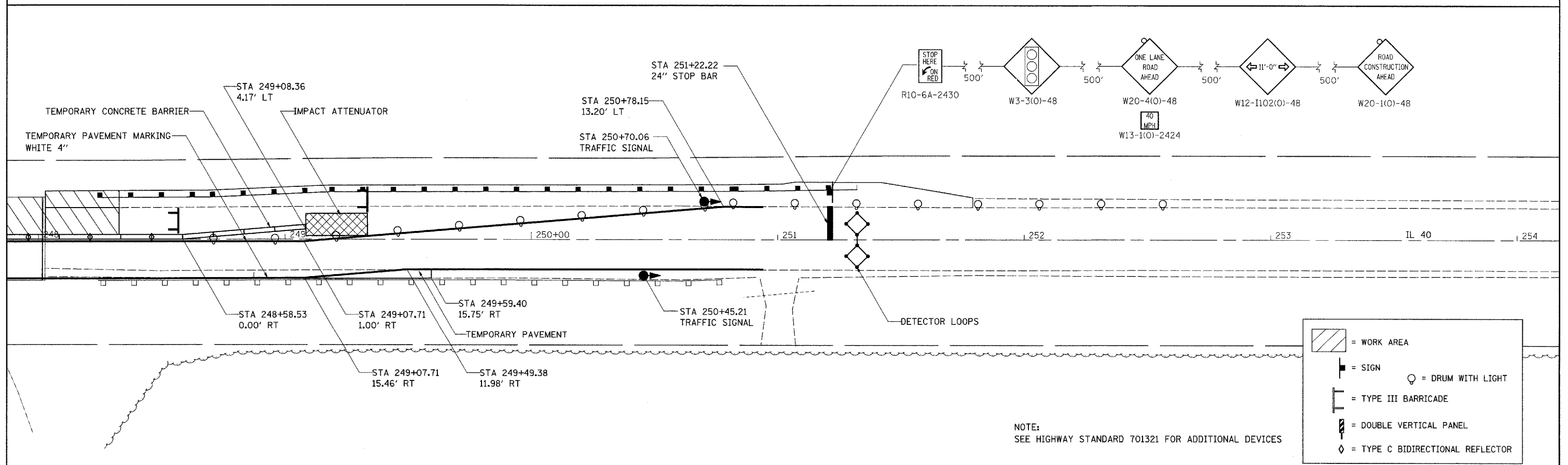
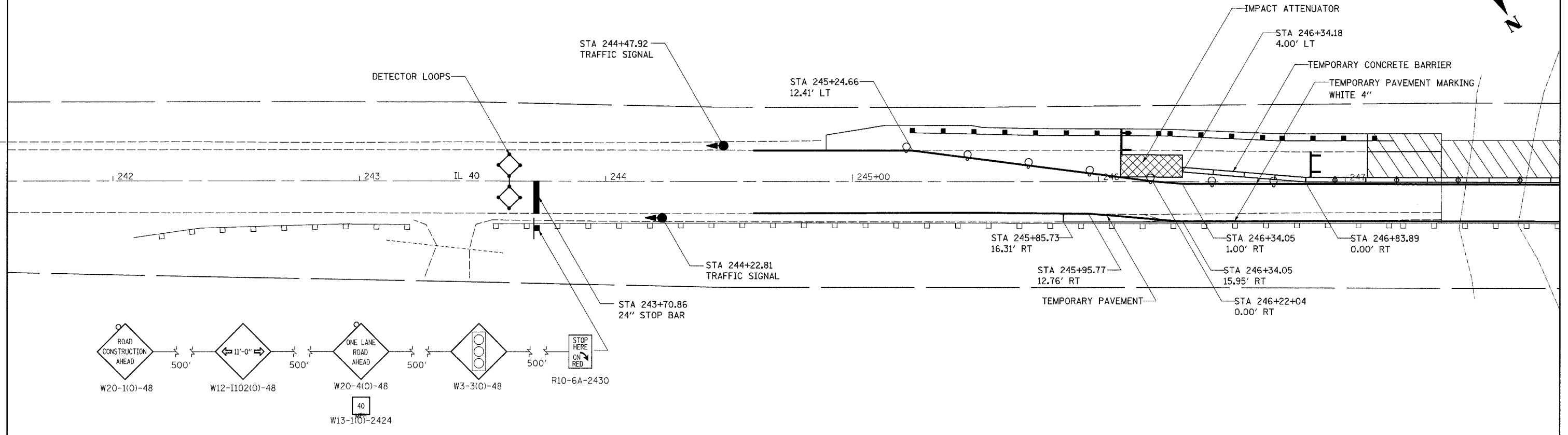
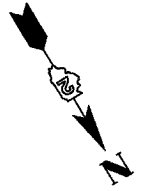
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(5BR-1)D	CARROLL	52	23
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64D29	

PERIMETER EROSION CONTROL BARRIER DETAIL



FILE NAME = c:\projects\p286907\d06907.pln.dgn	USER NAME = duncanfo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PERIMETER EROSION CONTROL SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					646	(5BR-1D)	CARROLL	52	24
		CHECKED -	REVISED -		SCALE: 20 SHEET NO. 24 OF 52 SHEETS STA. 246+00 TO STA. 252+00			CONTRACT NO. 64D29				
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

STAGE I



LEGEND

- = WORK AREA
- = SIGN
- = TYPE III BARRICADE
- = DOUBLE VERTICAL PANEL
- = TYPE C BIDIRECTIONAL REFLECTOR
- = DRUM WITH LIGHT

NOTE:
SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL DEVICES

FILE NAME =
c:\projects\p206907\d06907stg.dgn

USER NAME = duncanfe
PLOT SCALE = 20.0000' / IN.
PLOT DATE = Wed Oct 24 11:45:12 2007

DESIGNED - FD
DRAWN - FD
CHECKED - KN
DATE - 10/4/07

REVISED -
REVISED -
REVISED -
REVISED -

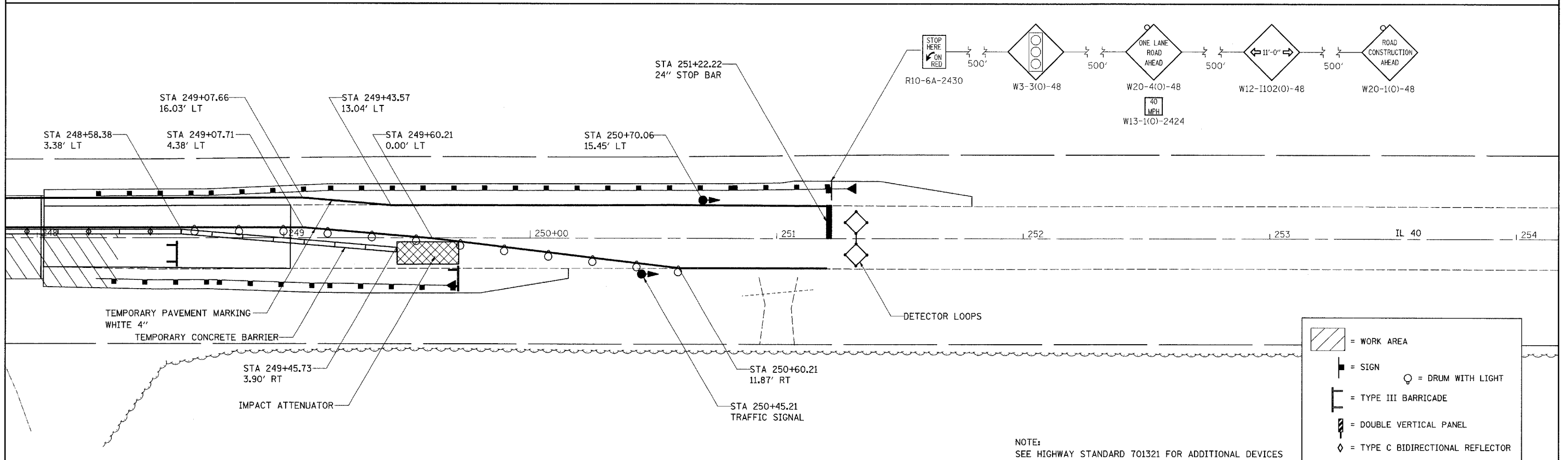
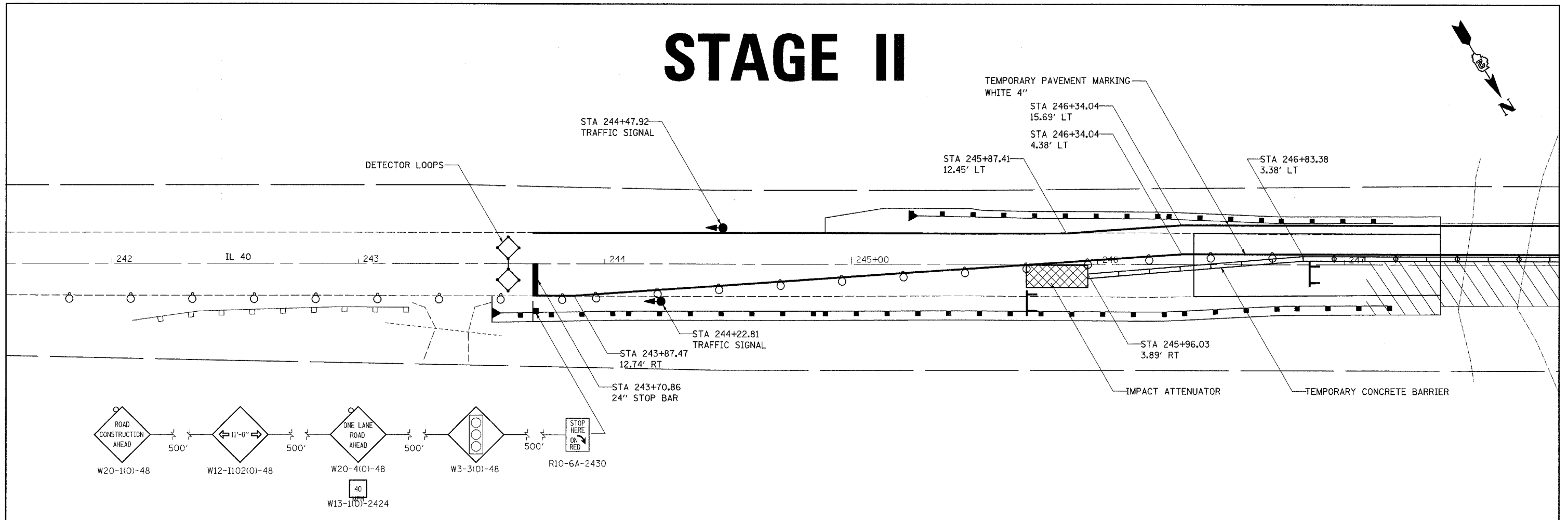
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 40 STAGING

SCALE: 20 SHEET NO. 25 OF 52 SHEETS STA. 242+00 TO STA. 254+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(5BR-1)D	CARROLL	52	25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64D29	

STAGE II

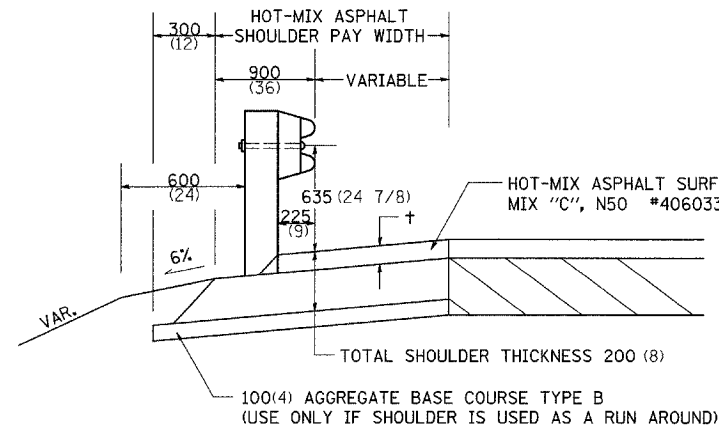


NOTE:
SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL DEVICES

- = WORK AREA
- = SIGN
- = DRUM WITH LIGHT
- = TYPE III BARRICADE
- = DOUBLE VERTICAL PANEL
- = TYPE C BIDIRECTIONAL REFLECTOR

FILE NAME =	USER NAME = dunoenfa	DESIGNED - FD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 40 STAGING		F.A.P. RTE. = 646	SECTION (5BR-11D)	COUNTY = CARROLL	TOTAL SHEETS = 52	SHEET NO. = 26
PROJECT = p206907\006907stg.dgn	PLOT SCALE = 20,0000' / IN.	CHECKED - KN	REVISED -		SCALE: 20	SHEET NO. 26 OF 52 SHEETS	STA. 242+00 TO STA. 254+00	CONTRACT NO. 64D29		FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT
PLOT DATE = Wed Oct 24 13:28:33 2007	DATE = 10/4/07	DATE = 10/4/07	REVISED -								

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL



+ = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET **525 (21)** FROM THE FINISHED SURFACE.

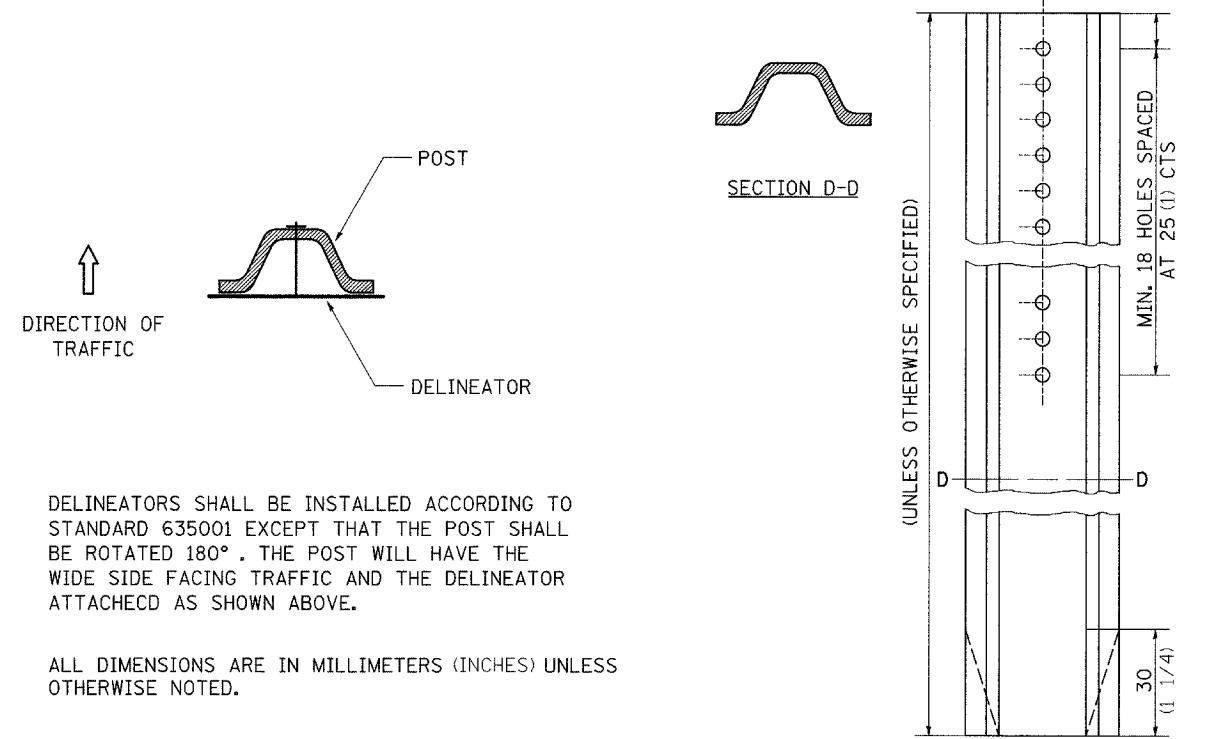
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD) FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

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

REVISED - 10-06-06

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL 23.4

DELINEATOR AND POST ORIENTATION



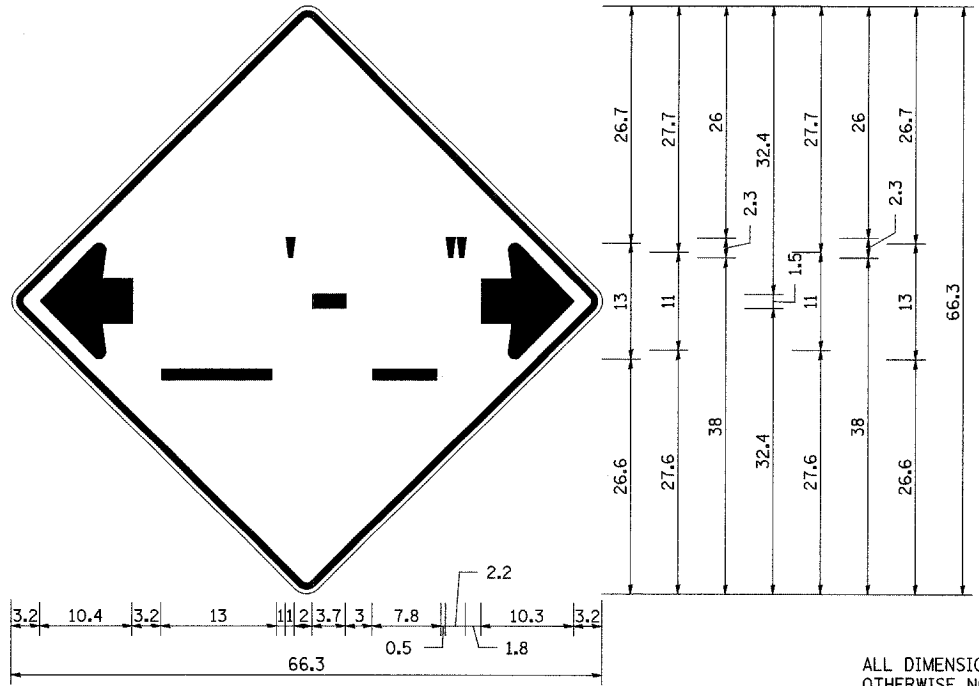
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

REVISED - 1-31-00

DELINEATOR AND POST ORIENTATION 37.4

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°

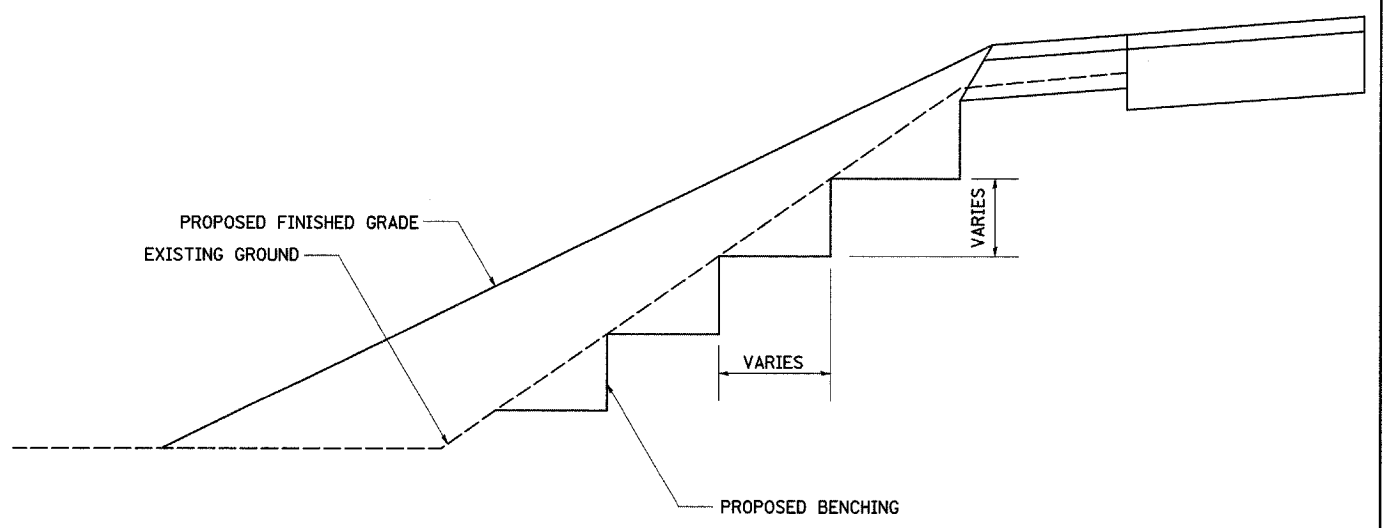
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 6-29-05

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) 39.4

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE. 646	SECTION (5BR-1)D	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 27
REVISED -		SCALE: 50,000' / IN		SHEET NO. 27 OF 52 SHEETS	STA.	TO STA.
REVISED -		CONTRACT NO. 64D29		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
REVISED -						

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

LETTERING FOR NAME PLATE

STATION
 BUILT 200 BY
 STATE OF ILLINOIS
 RTE. SEC.
 FA PROJECT
 LOADING HS 20
 STR. NO.

SEE STD. 515001

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

REVISED - 10-15-04

LETTERING FOR NAME PLATE 89.4

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 600(24)
 100(4) CAPITAL LETTERS - BLACK
 13 (1/2) BORDER - BLACK
 WHITE REFLECTIVE - TYPE AP
 HIGH INTENSITY PRISMATIC SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

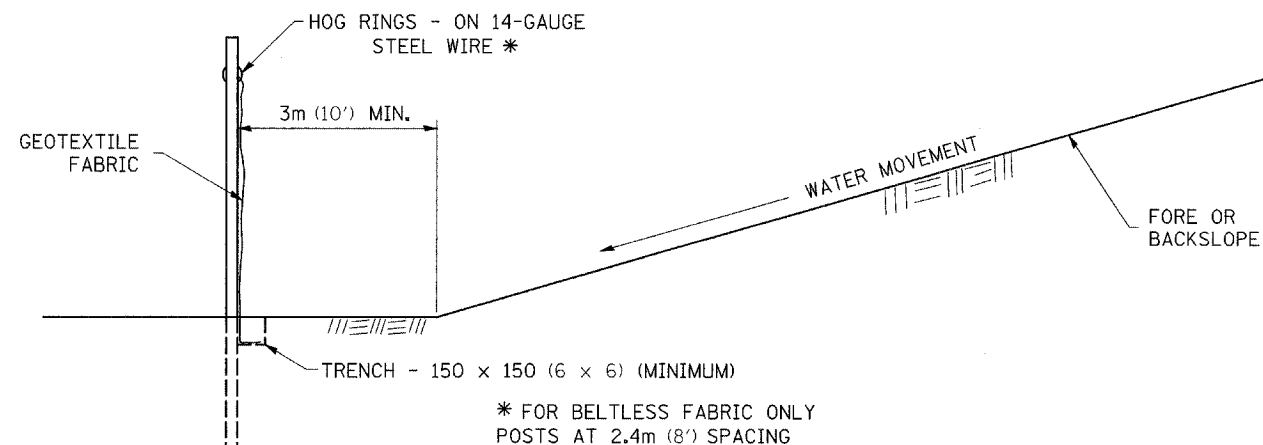
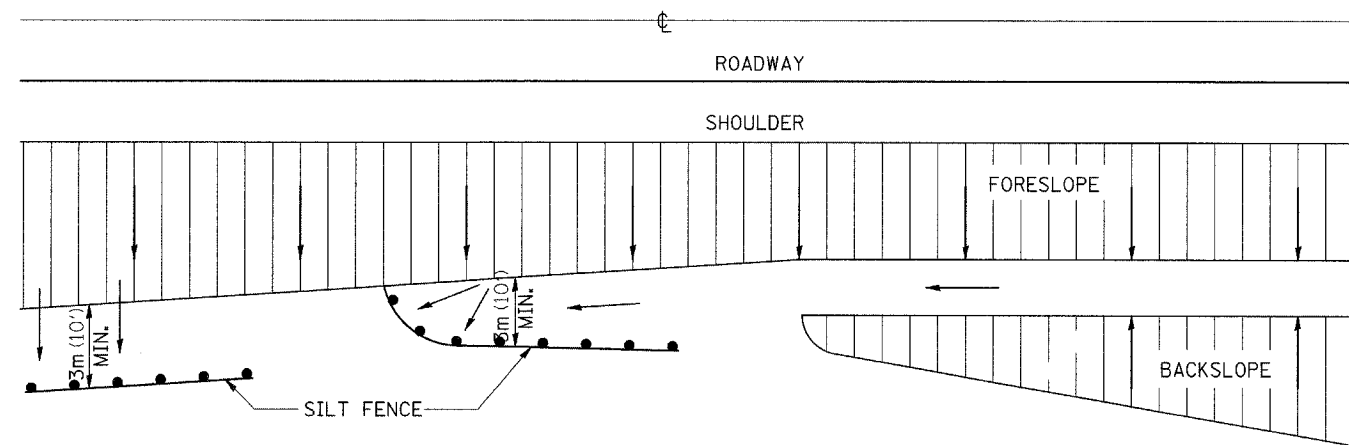
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 1-22-07

STOP LINE SIGN FOR TEMPORARY SIGNALS

99.4

EROSION CONTROL DETAILS FOR SILT FENCE



DETAILS OF SILT FENCE

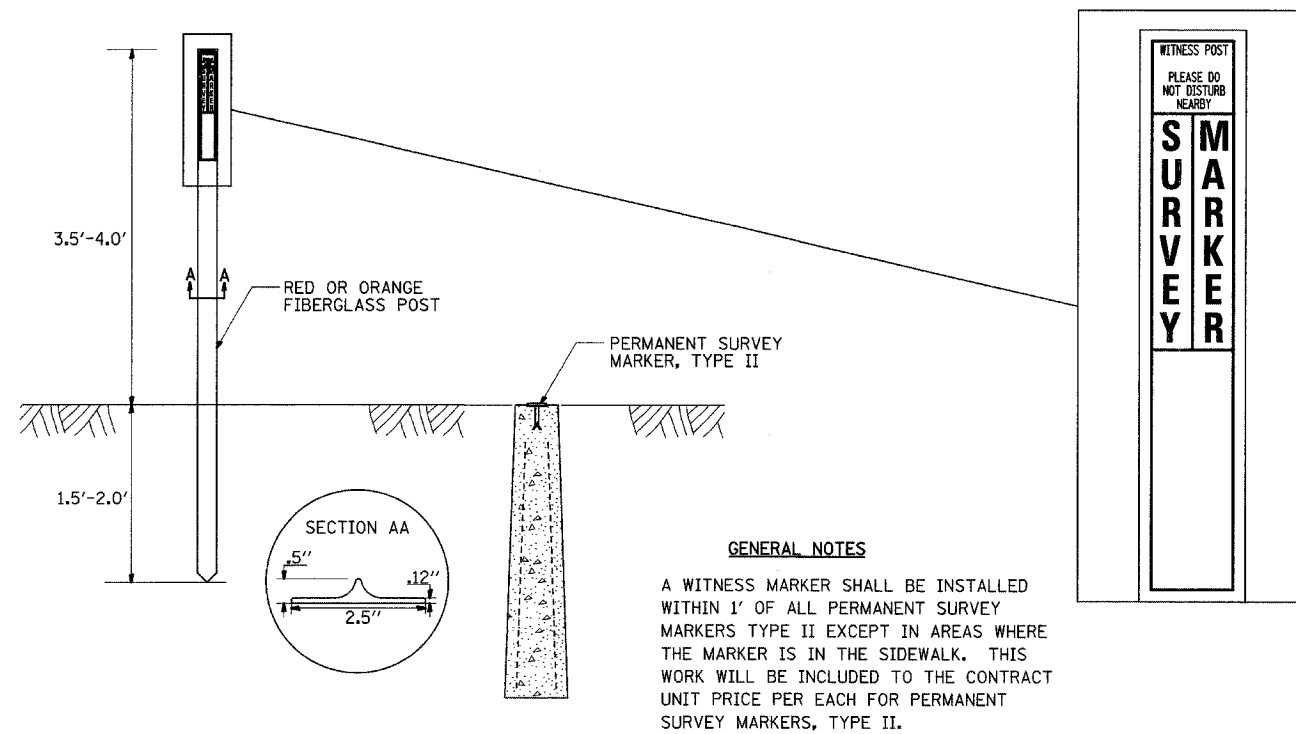
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 10-22-01	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -	SCALE: 50:0000 1/4" IN	SHEET NO. 28 OF 52 SHEETS	STA.	TO STA.	646	(5BR-1)D	CARROLL	52	28
REVISED -					CONTRACT NO. 64029				
REVISED -					ILLINOIS FED. AID PROJECT				

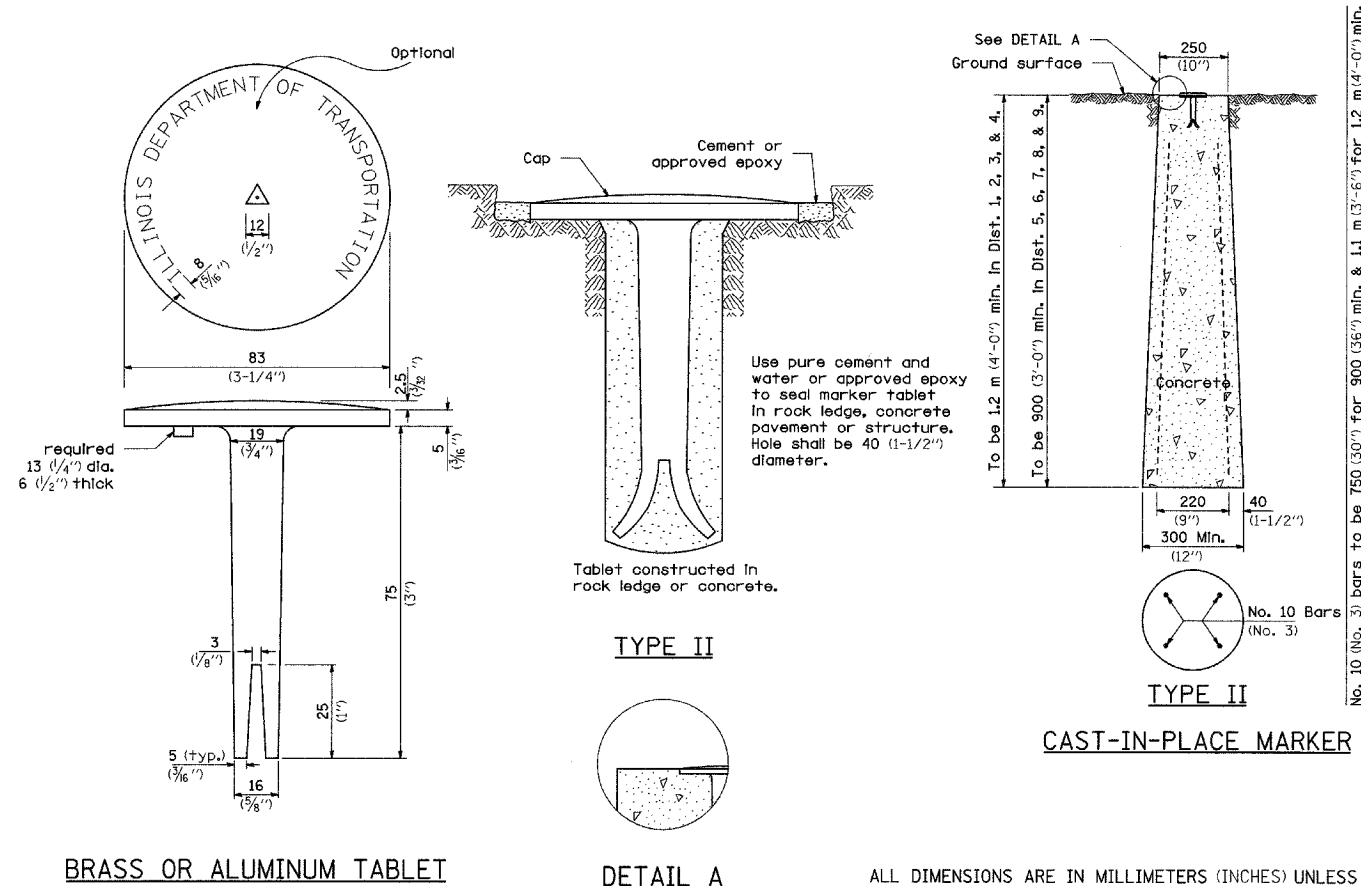
EROSION CONTROL DETAILS FOR SILT FENCE

29.2

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



PERMANENT SURVEY MARKERS, TYPE II



No. 10 (No. 3) bars to be 750 (30") for 900 (36") min. & 1.1 m (3'-6") for 1.2 m (4'-0") min.

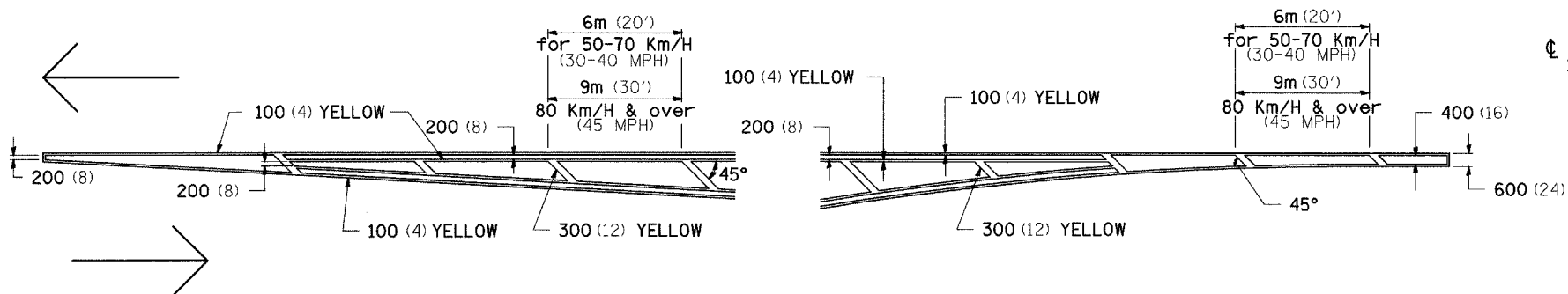
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 6-26-06

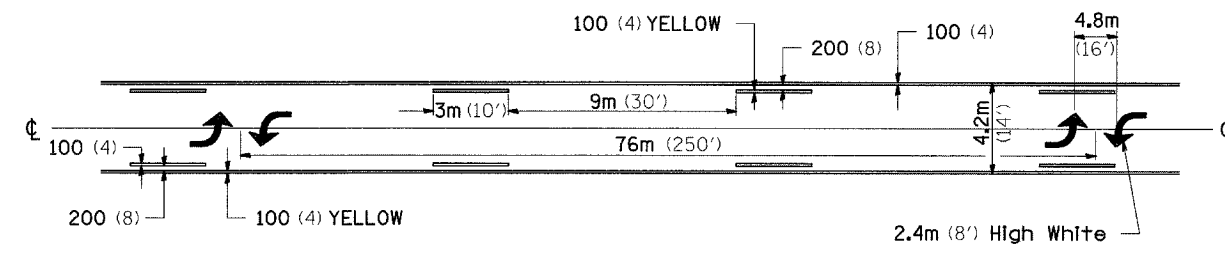
REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
REVISED -		646	(5BR-1)D	CARROLL	52	29	
REVISED -		SCALE: 50:0000 1" = 50'			SHEET NO. 29 OF 52 SHEETS	STA.	TO STA.
REVISED -		FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
REVISED -		CONTRACT NO. 64D29					

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

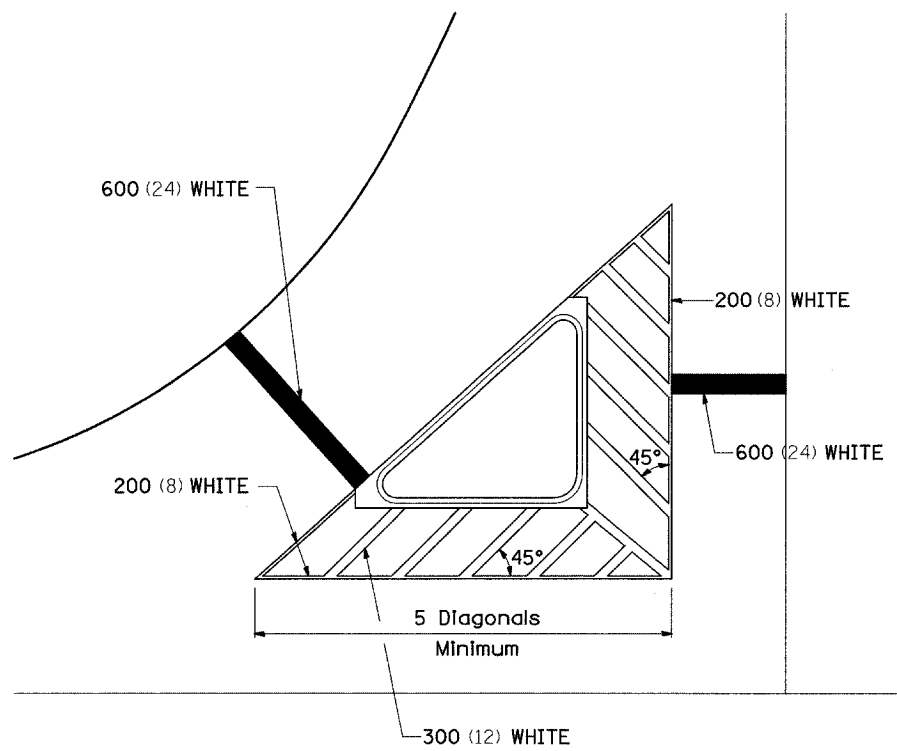


MEDIAN PAVEMENT MARKING

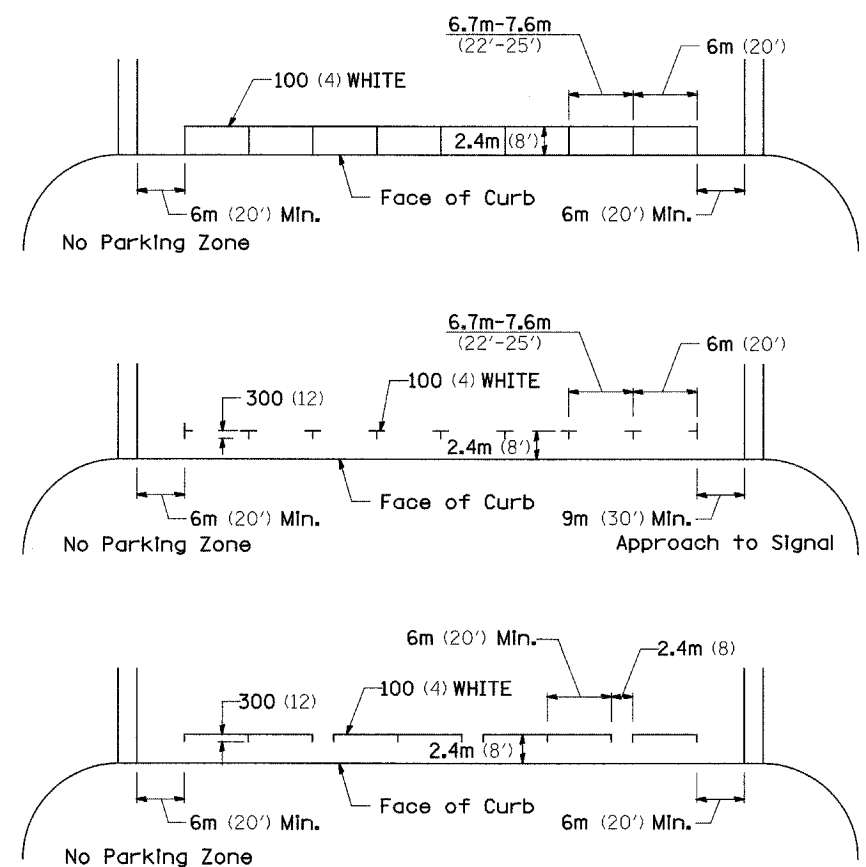


** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

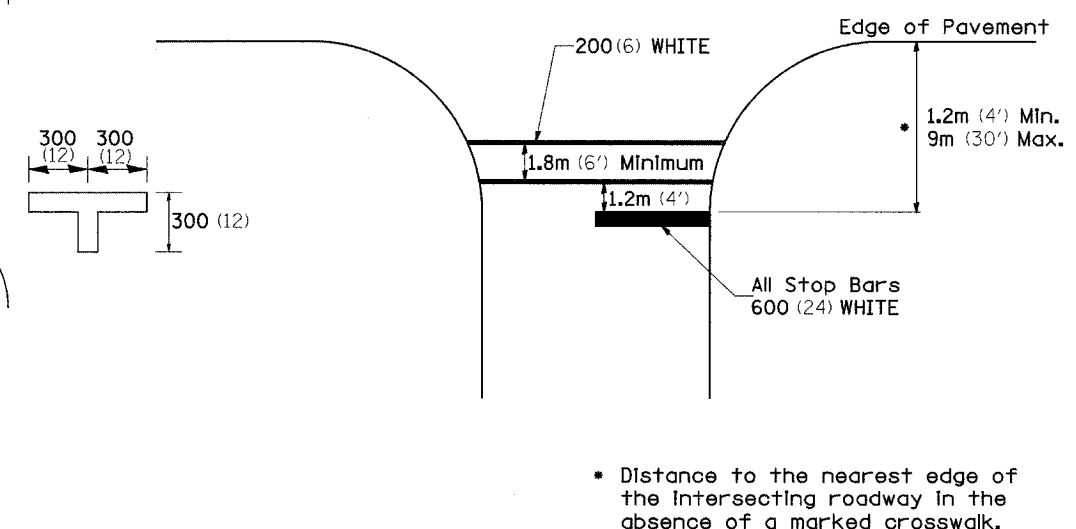


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

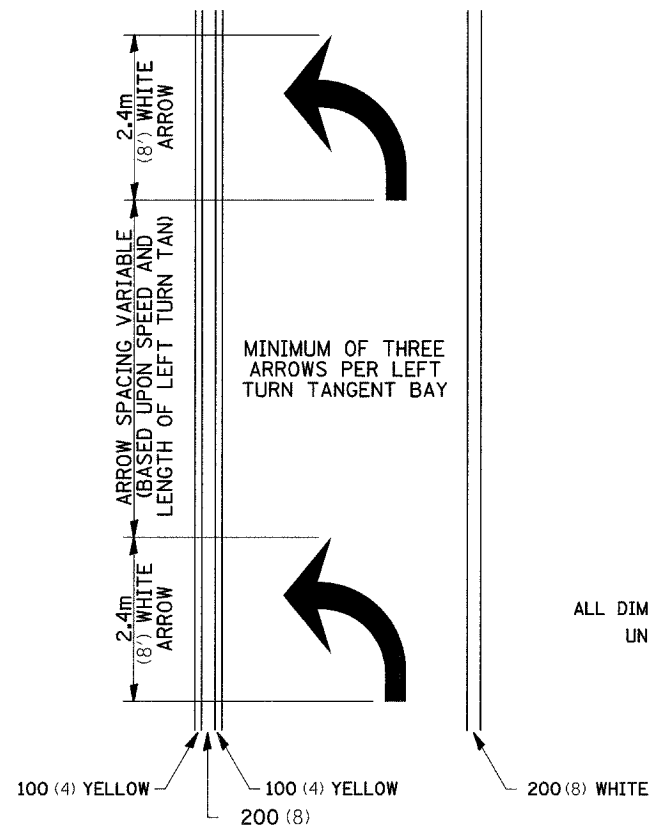


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME = c:\projects\p206\07\d06\07std.dgn	USER NAME = duncanfa	DESIGNED -	REVISED - 7-20-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE. 646	SECTION (5BR-1)D	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 30		
						SCALE:	SHEET NO. 52 OF 30 SHEETS	STA.	TO STA.	CONTRACT NO. 64D29		
								ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

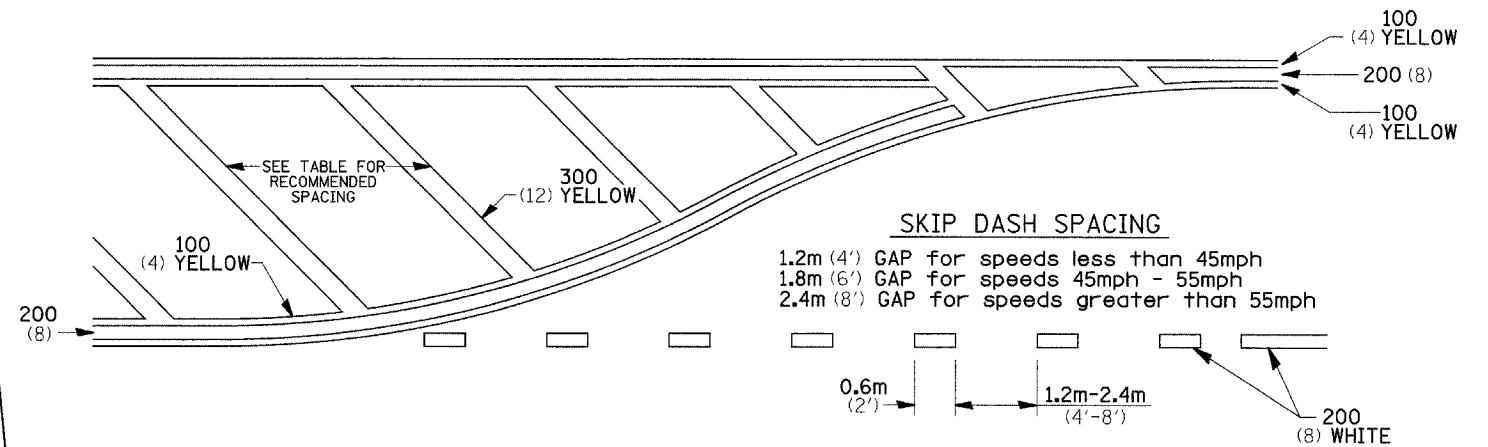


- ▲ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

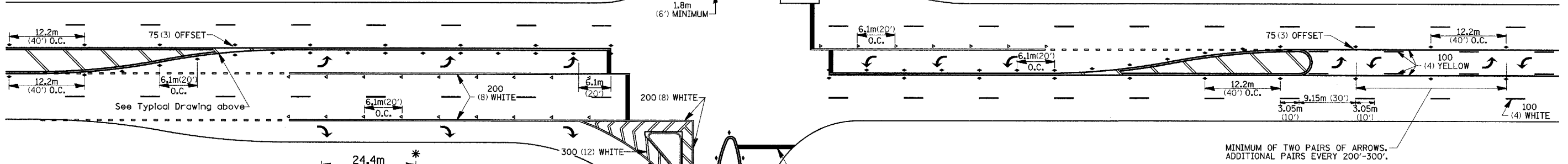
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



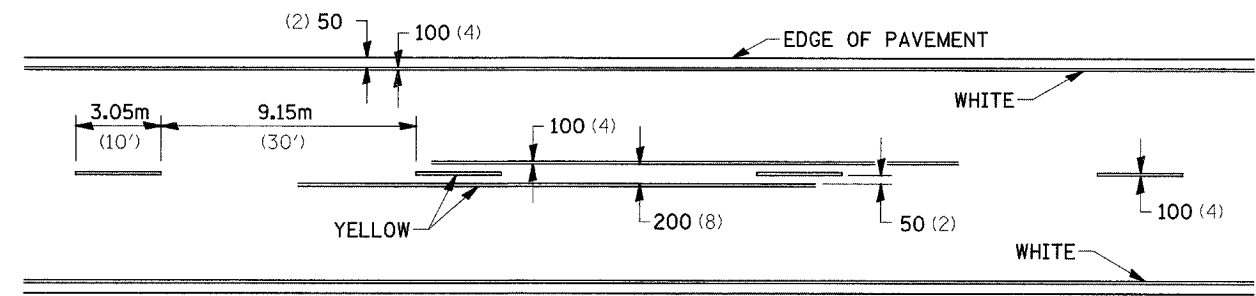
RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SYMBOLS

12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

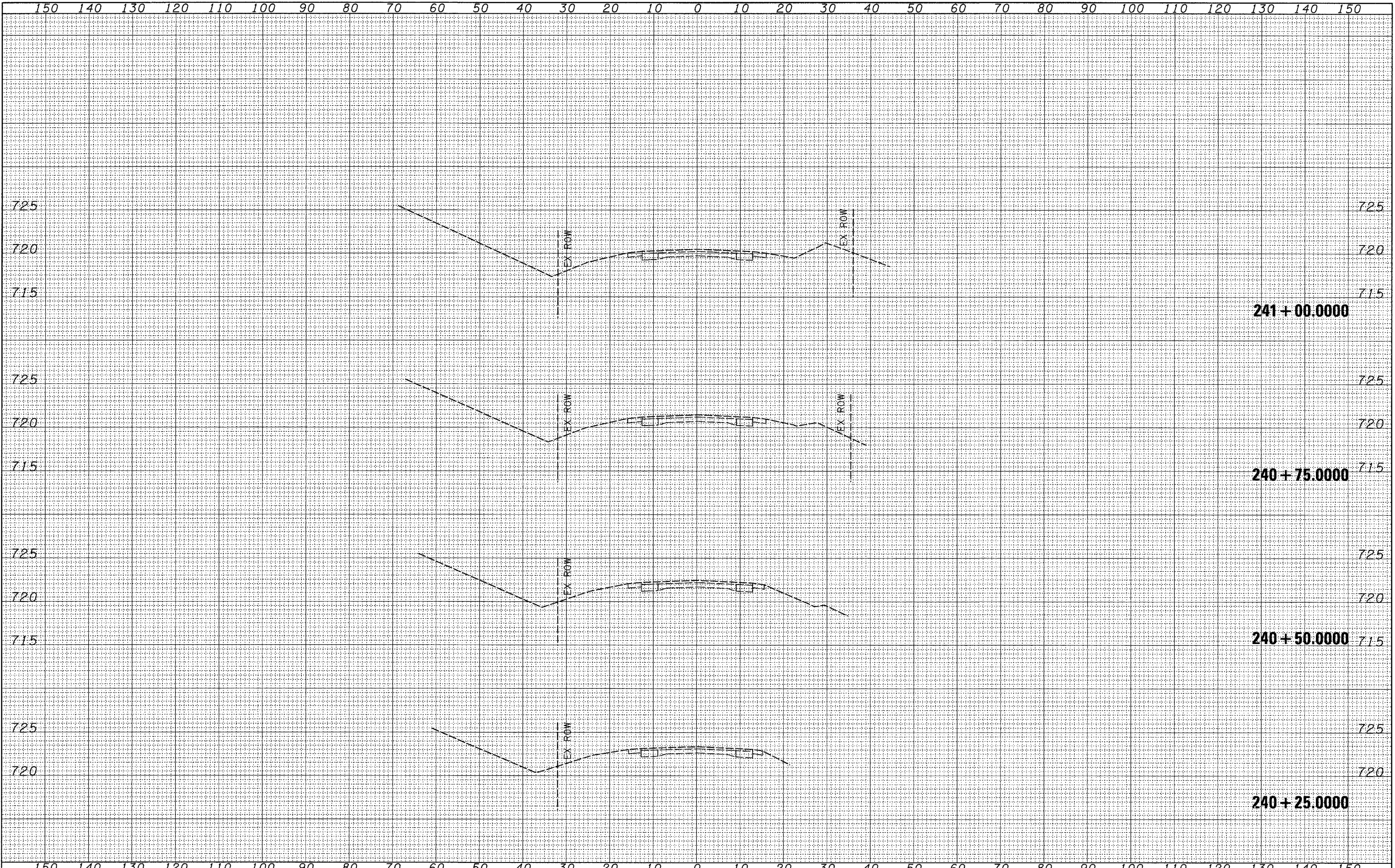
- * REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- ** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

FILE NAME = c:\projects\p226987\d86987std.dgn	USER NAME = dunoanfo	DESIGNED -	REVISED - 7-20-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE. 646	SECTION (5BR-1)D	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 31	
PLOT SCALE = 50:2000' / IN.		DRAWN -	REVISED -		SCALE:	SHEET NO. 52 OF 31 SHEETS	STA.	TO STA.	CONTRACT NO. 64D29			
PLOT DATE = Wed Oct 24 11:58:14 2007		CHECKED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
DATE -		DATE -	REVISED -		TYPICAL PAVEMENT MARKINGS SHEET 2 OF 2 41.1							

FINAL SURVEY	DATE
SURVEYED	BY
PLANNED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLANNED	
TEMPLATE	
AREAS	
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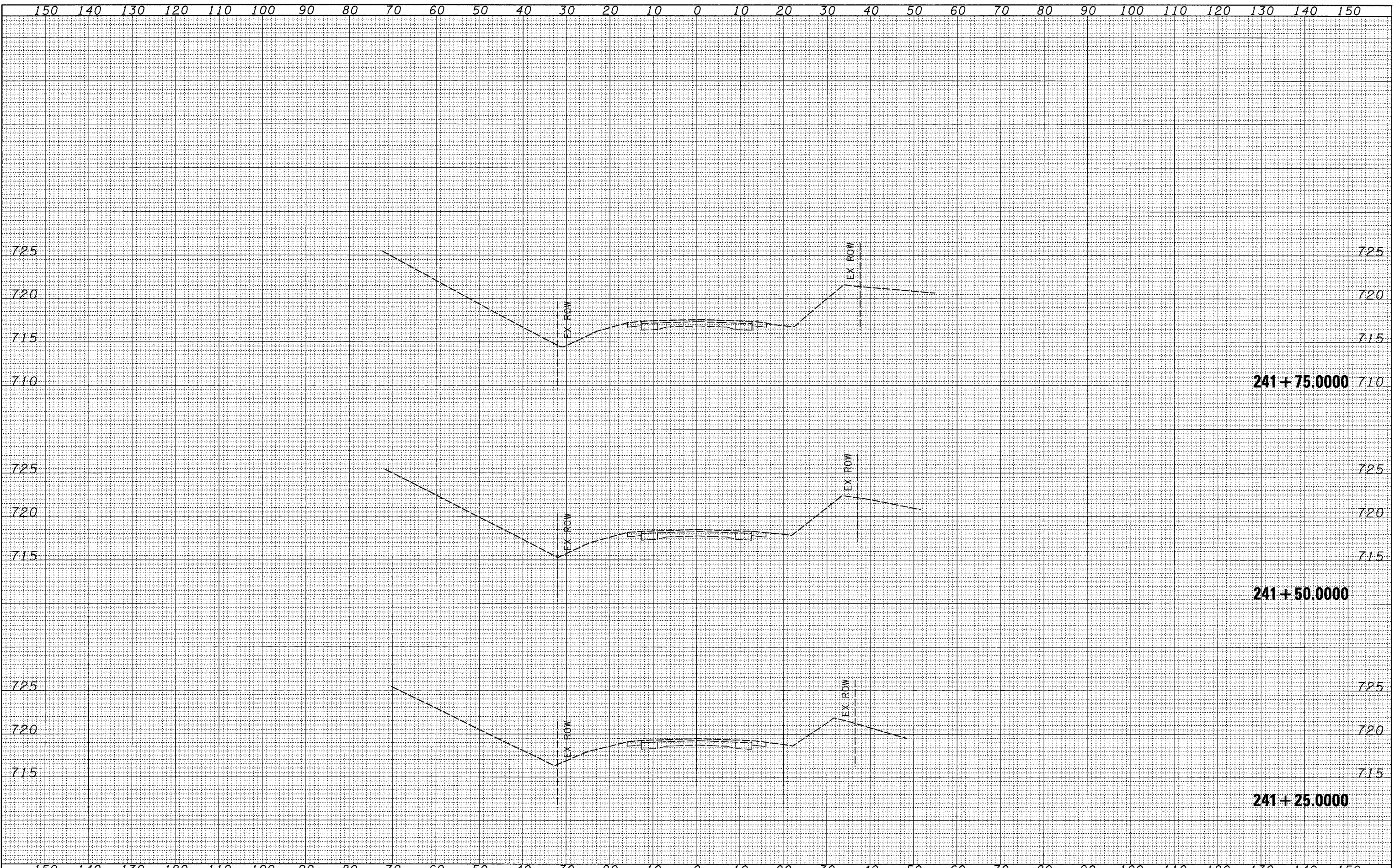
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 240+25.0000 TO STA. 241+00.0000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(5BR-1)D	CARROLL	52	32
CONTRACT NO. 64D29			ILLINOIS FED. AID PROJECT	



FINAL SURVEY
 SURVEYED BY
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ORIGINAL SURVEY
 SURVEYED BY
 DATE
 NO.

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	DRAWN -	REVISED -
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PLOT DATE = Wed Oct 24 13:19:29 2007	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

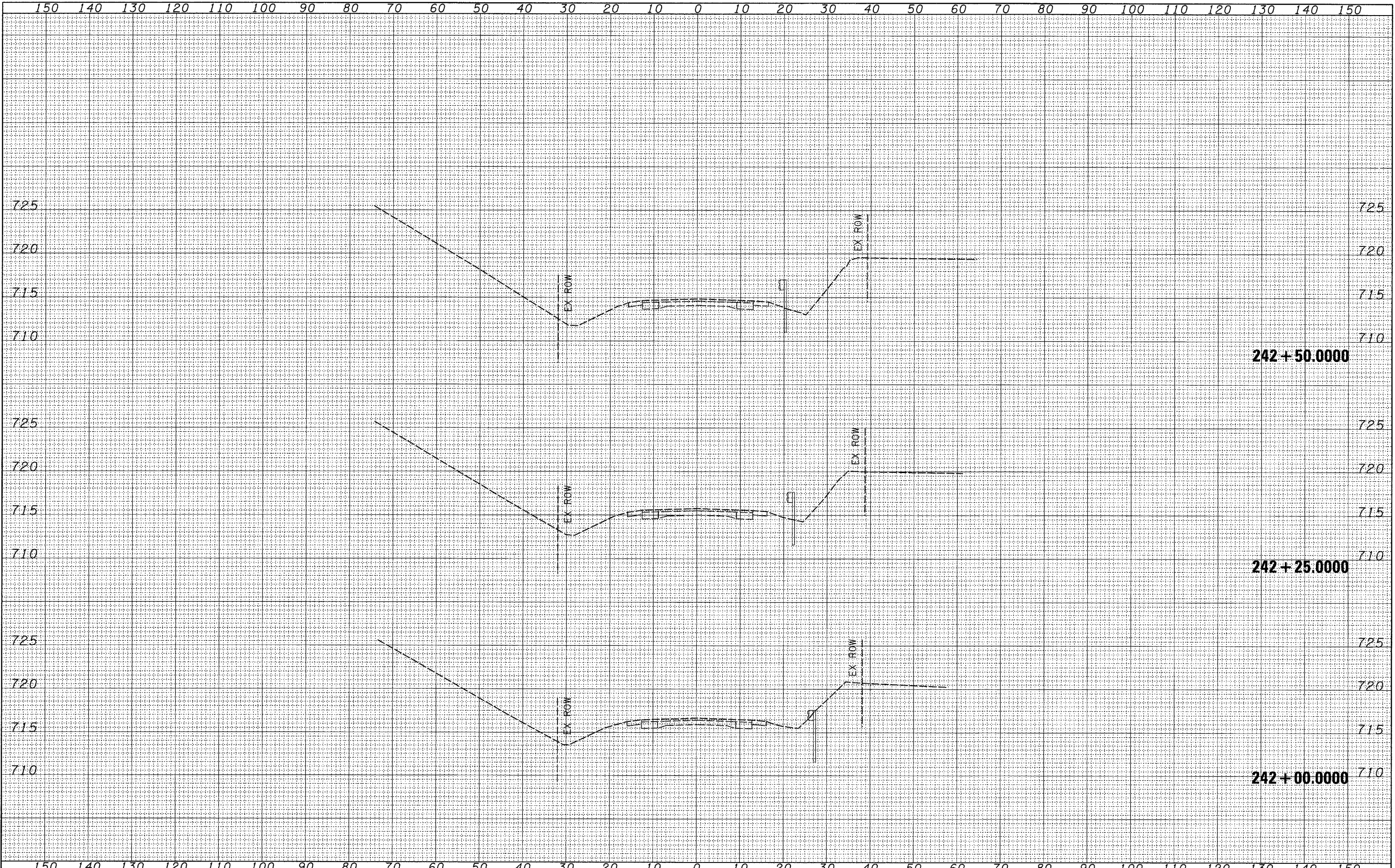
IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 241+25.0000 TO STA. 241+75.0000

F.A.P. RTE. 646	SECTION (5BR-1)D	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 33
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CONTRACT NO. 64D29		

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

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



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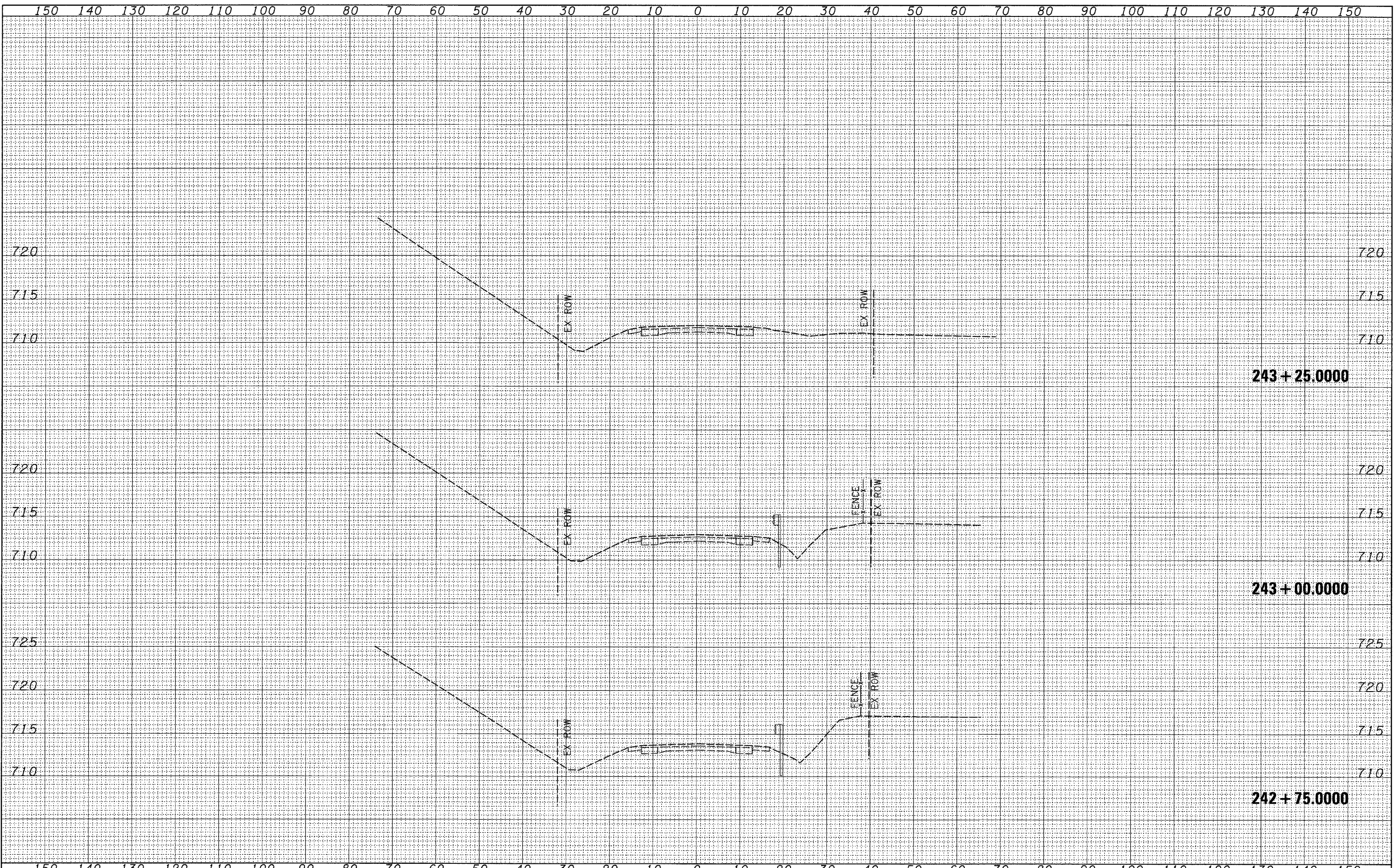
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PLOT DATE = Wed Oct 24 13:19:29 2007	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 242+00.0000 TO STA. 242+50.0000

F.A.P. RTE. 646	SECTION (5BR-1D)	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 34
CONTRACT NO. 64D29			ILLINOIS FED. AID PROJECT	



DATE	
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FINAL SURVEY	
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NOTE BOOK	
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ORIGINAL SURVEY	
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PLOTTED	
NOTE BOOK	
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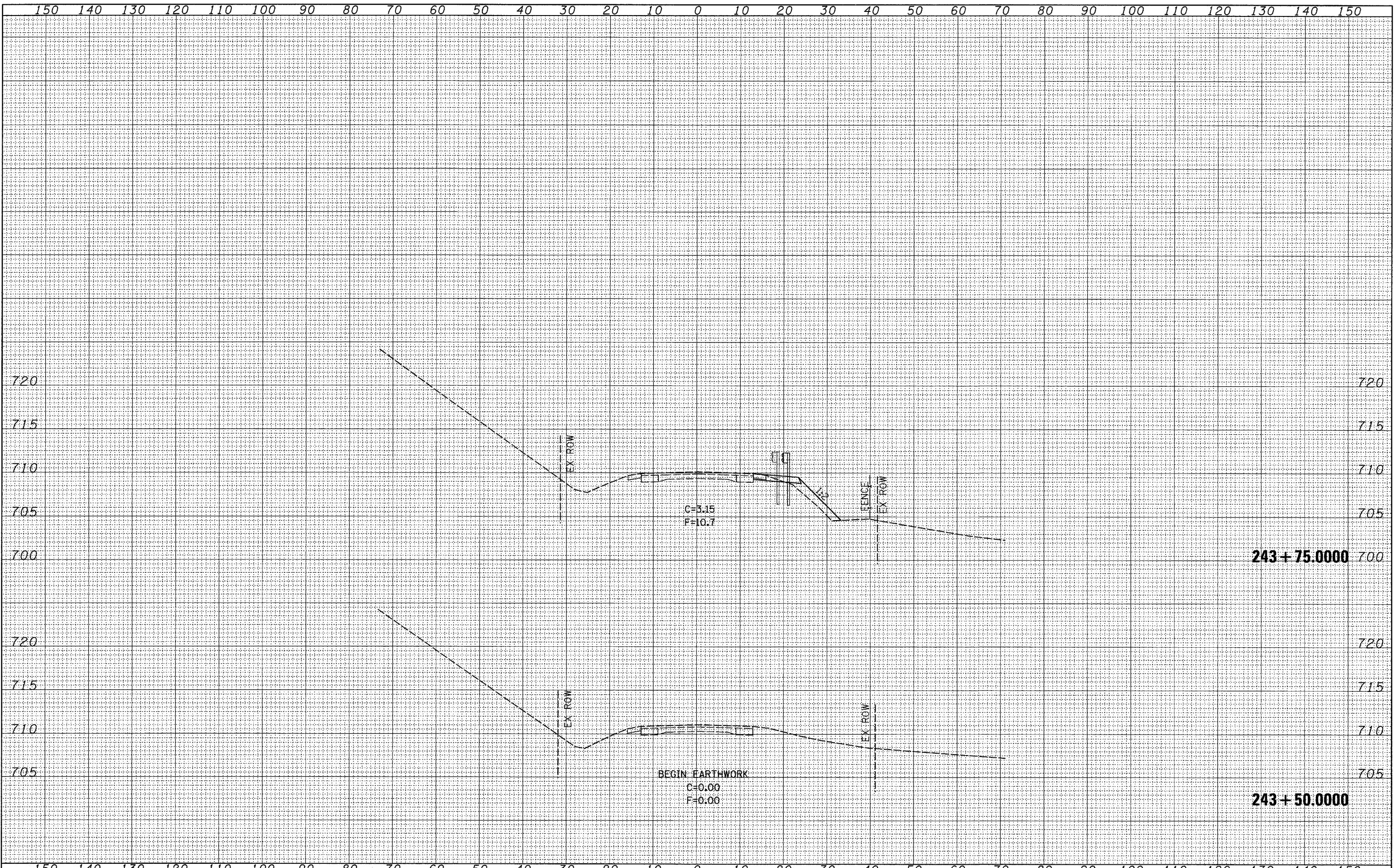
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 242+75.000 TO STA. 243+25.000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(5BR-1)D	CARROLL	52	35
FED. ROAD DIST. NO.			CONTRACT NO. 64D29	
ILLINOIS FED. AID PROJECT				



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

ORIGINAL SURVEY	DATE
SURVEYED	BY
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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	DRAWN -	REVISED -
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PLOT DATE = Wed Oct 24 13:19:38 2007	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

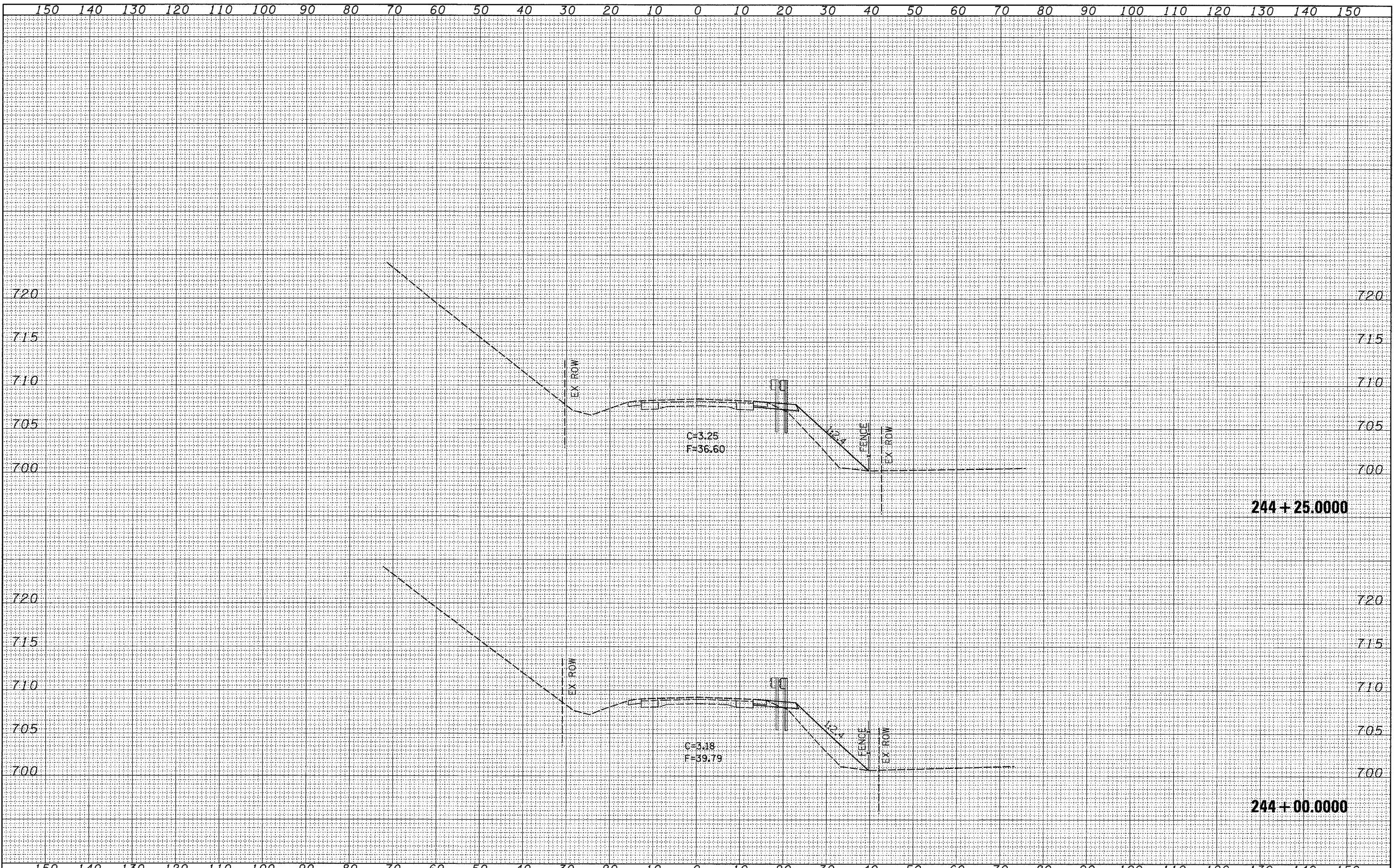
IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 243+50.0000 TO STA. 243+75.0000

F.A.P. RTE. 646	SECTION (5BR-1)D	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 36
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CONTRACT NO. 64D29		

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
NO.	



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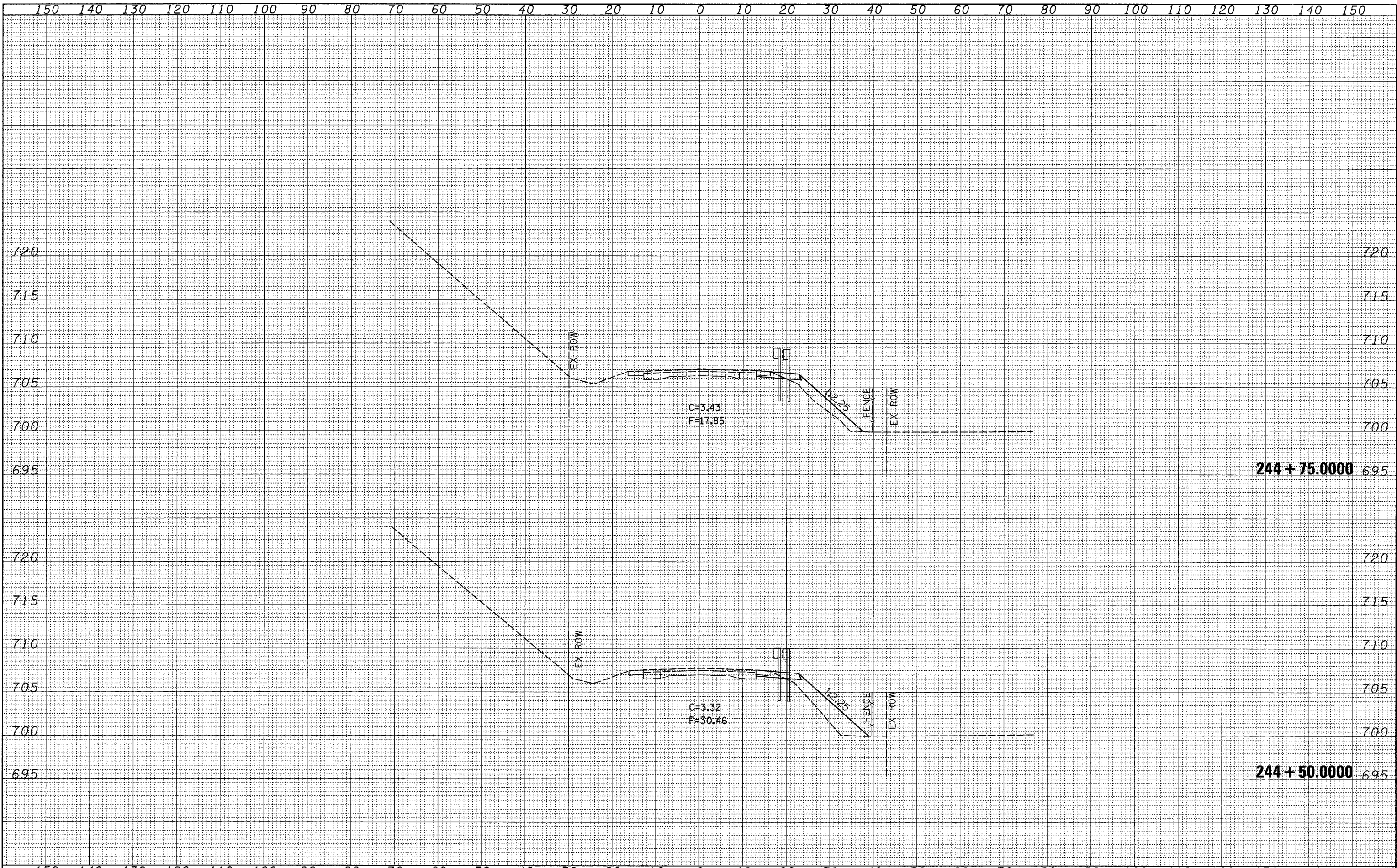
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PLOT DATE = Wed Oct 24 13:14:30 2007	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 244+00.0000 TO STA. 244+25.0000

F.A.P. RTE. 646	SECTION (5BR-1D)	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 37
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CONTRACT NO. 64D29		

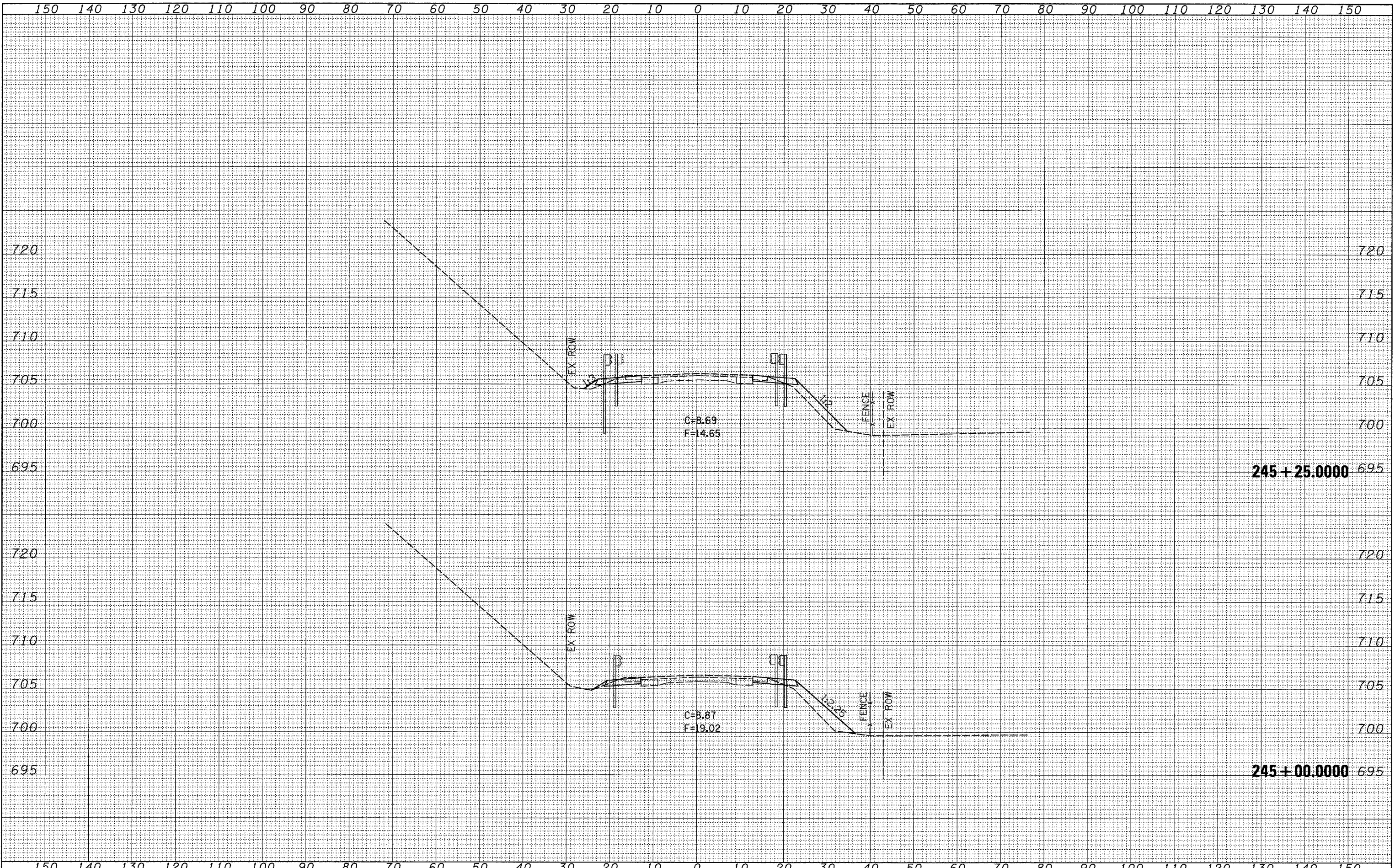


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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

FINAL SURVEY	DATE
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NOTE BOOK	
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ORIGINAL SURVEY	DATE
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

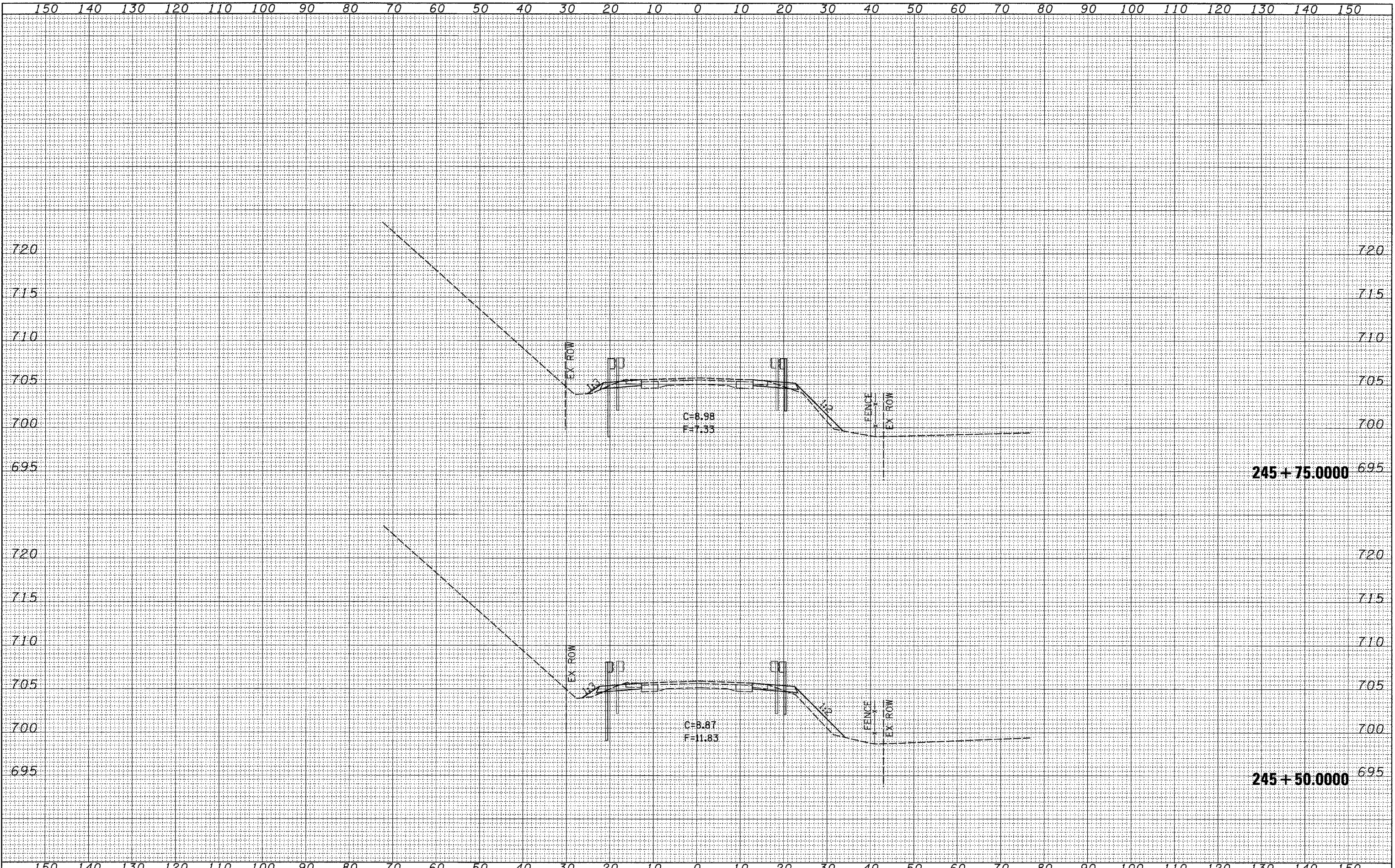
IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 245+00.0000 TO STA. 245+25.0000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(5BR-1)D	CARROLL	52	39
CONTRACT NO. 64D29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
PLANNED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLANNED	
TEMPLATE	
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 PLOT DATE = Wed Oct 24 13:19:31 2007

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CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

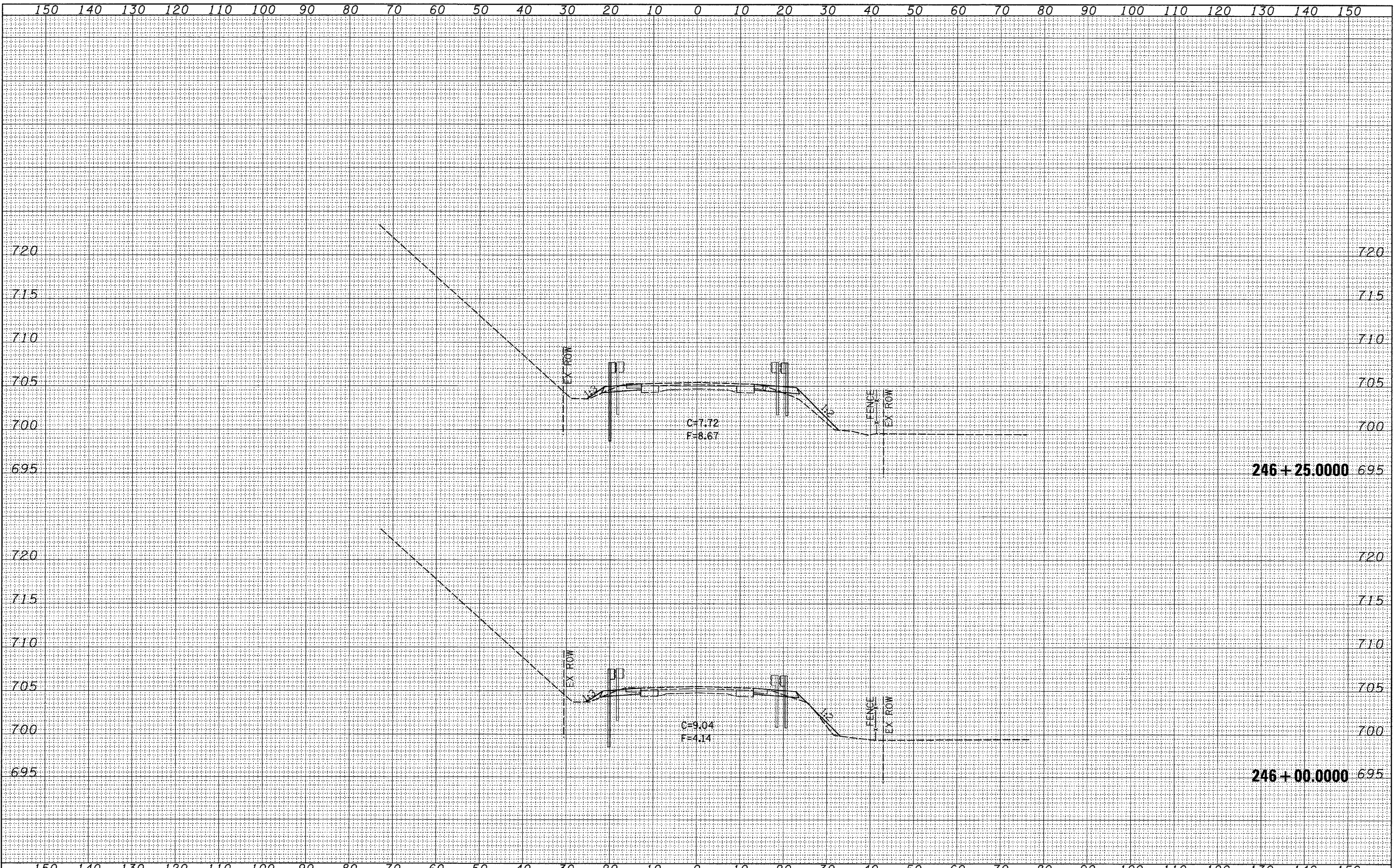
IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 245+50.0000 TO STA. 245+75.0000

F.A.P. RTE. 646	SECTION (5BR-1D)	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 40
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 64D29		

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

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



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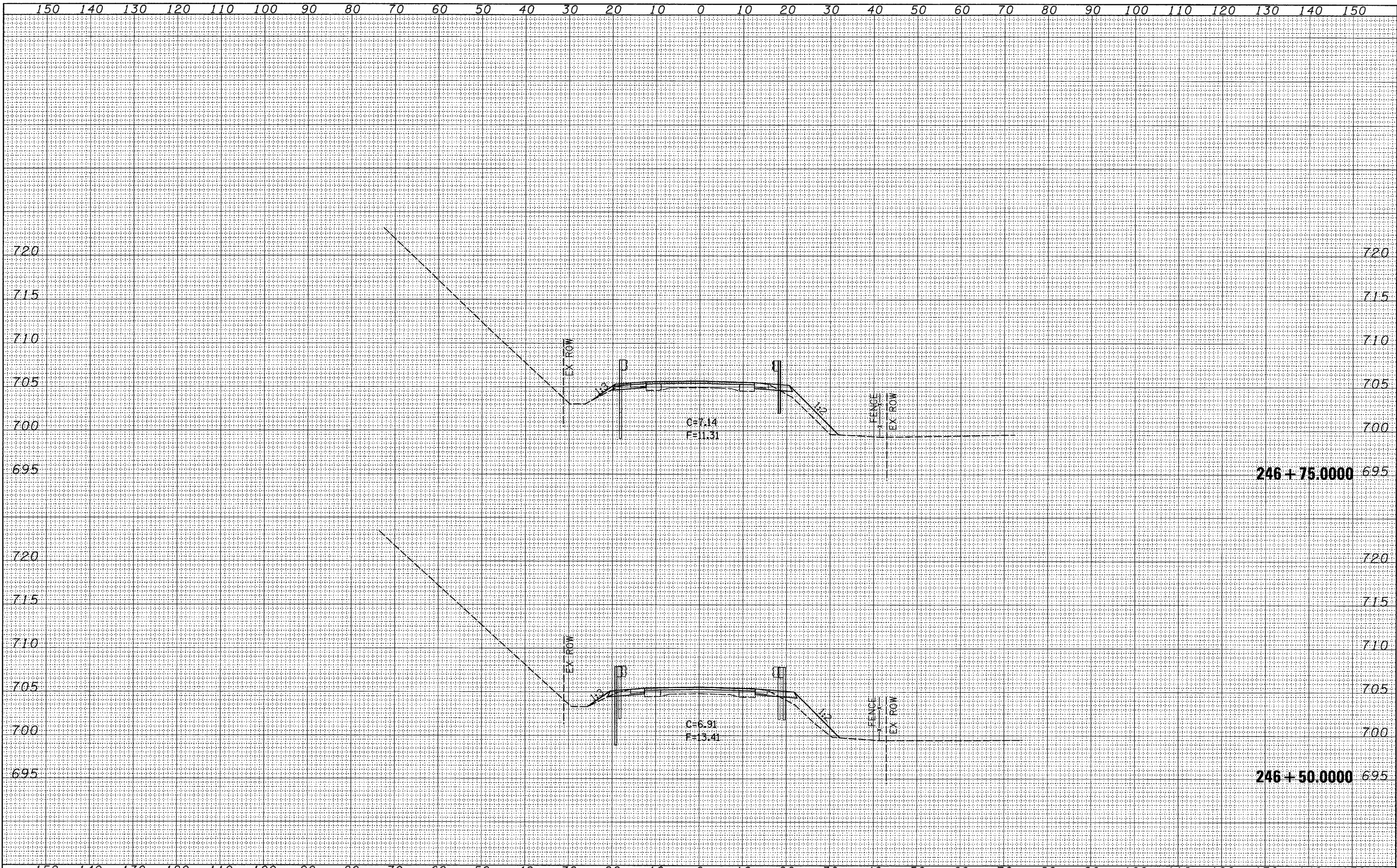
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PLOT DATE = Wed Oct 24 13:19:31 2007	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 40 CROSS SECTIONS

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. 246+00.0000 TO STA. 246+25.0000

F.A.P. RTE. 646	SECTION (5BR-1)D	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 41
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT CONTRACT NO. 64D29		

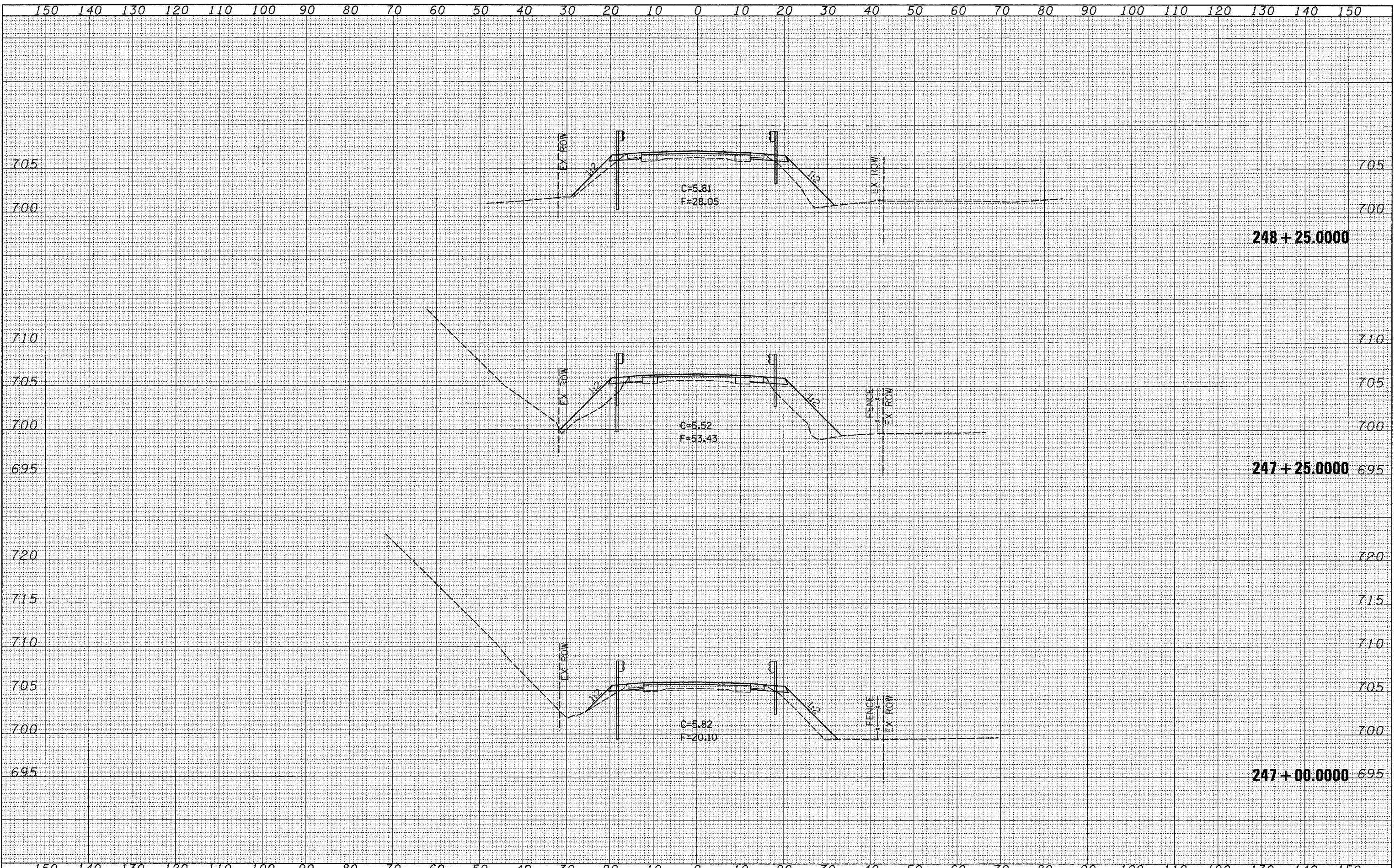


FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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

DATE: _____
 BY: _____
 SURVEYED: _____
 CHECKED: _____
 FINAL SURVEY: _____
 NOTE BOOK: _____
 NO.: _____

DATE: _____
 BY: _____
 SURVEYED: _____
 CHECKED: _____
 ORIGINAL SURVEY: _____
 NOTE BOOK: _____
 NO.: _____



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	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = Wed Oct 24 13:19:31 2007	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

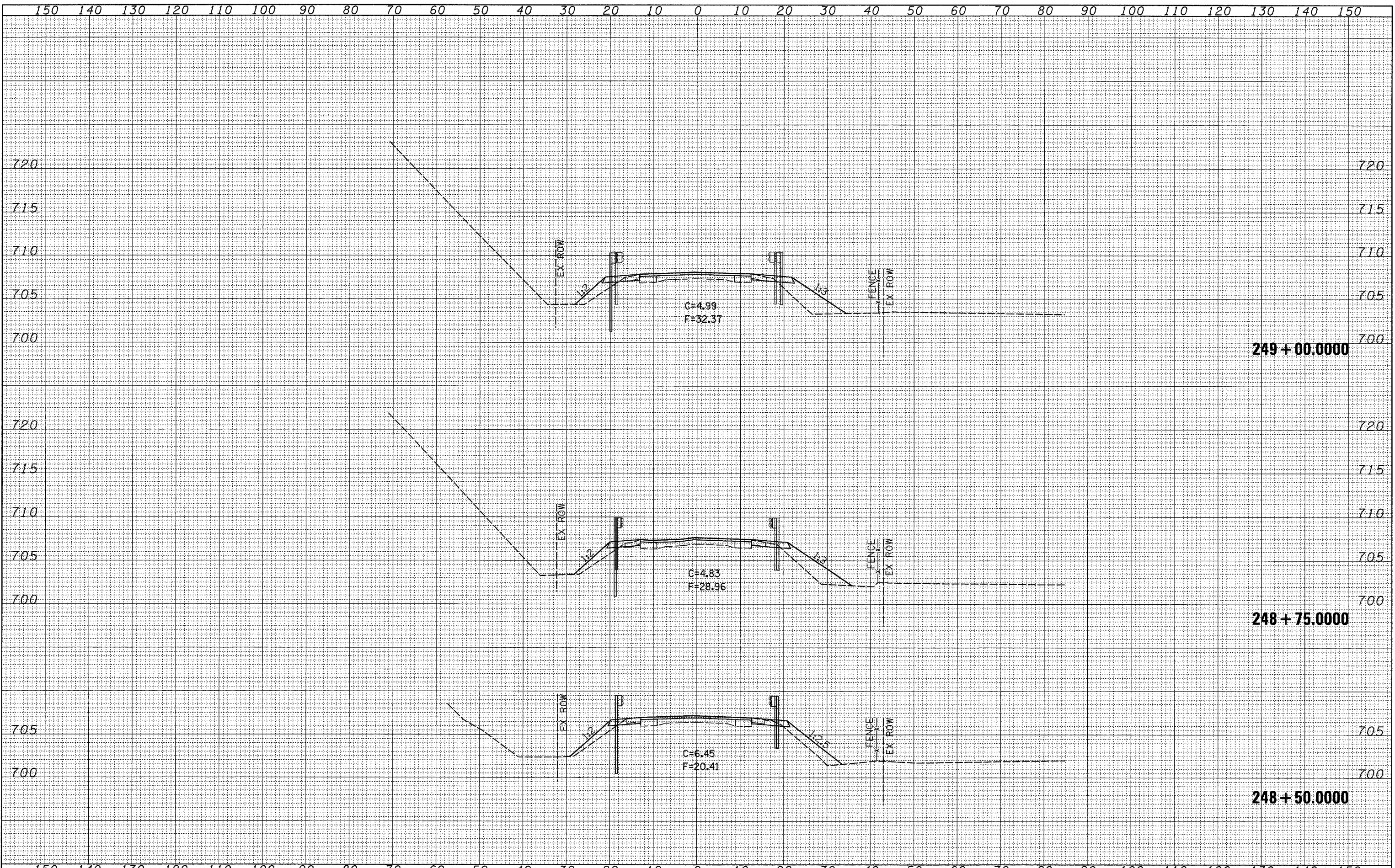
IL 40 CROSS SECTIONS

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. 247+00.0000 TO STA. 248+25.0000

F.A.P. RTE. 646	SECTION (5BR-1D)	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 43
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 64D29		

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

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



FILE NAME =
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USER NAME = duncanfa	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = Wed Oct 24 13:19:32 2007	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 248+50.0000 TO STA. 249+00.0000

F.A.P. RTE. 646	SECTION (5BR-1)D	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 44
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

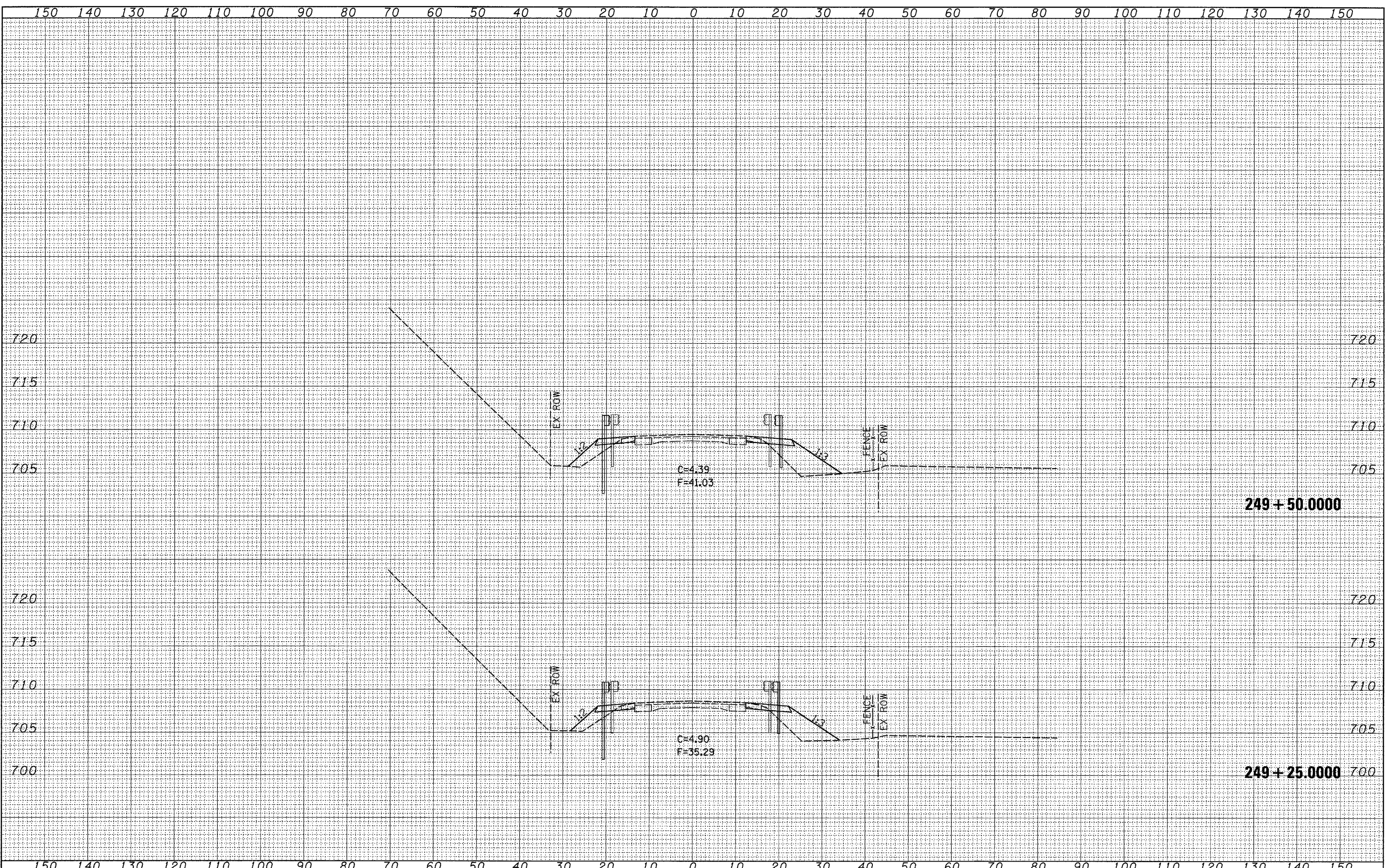
249 + 00.0000

248 + 75.0000

248 + 50.0000

FINAL	SURVEYED	DATE
SURVEY	PLANNED	
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL	SURVEYED	DATE
SURVEY	PLANNED	
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	



FILE NAME = c:\projects\p206907\d06907.xml.dgn

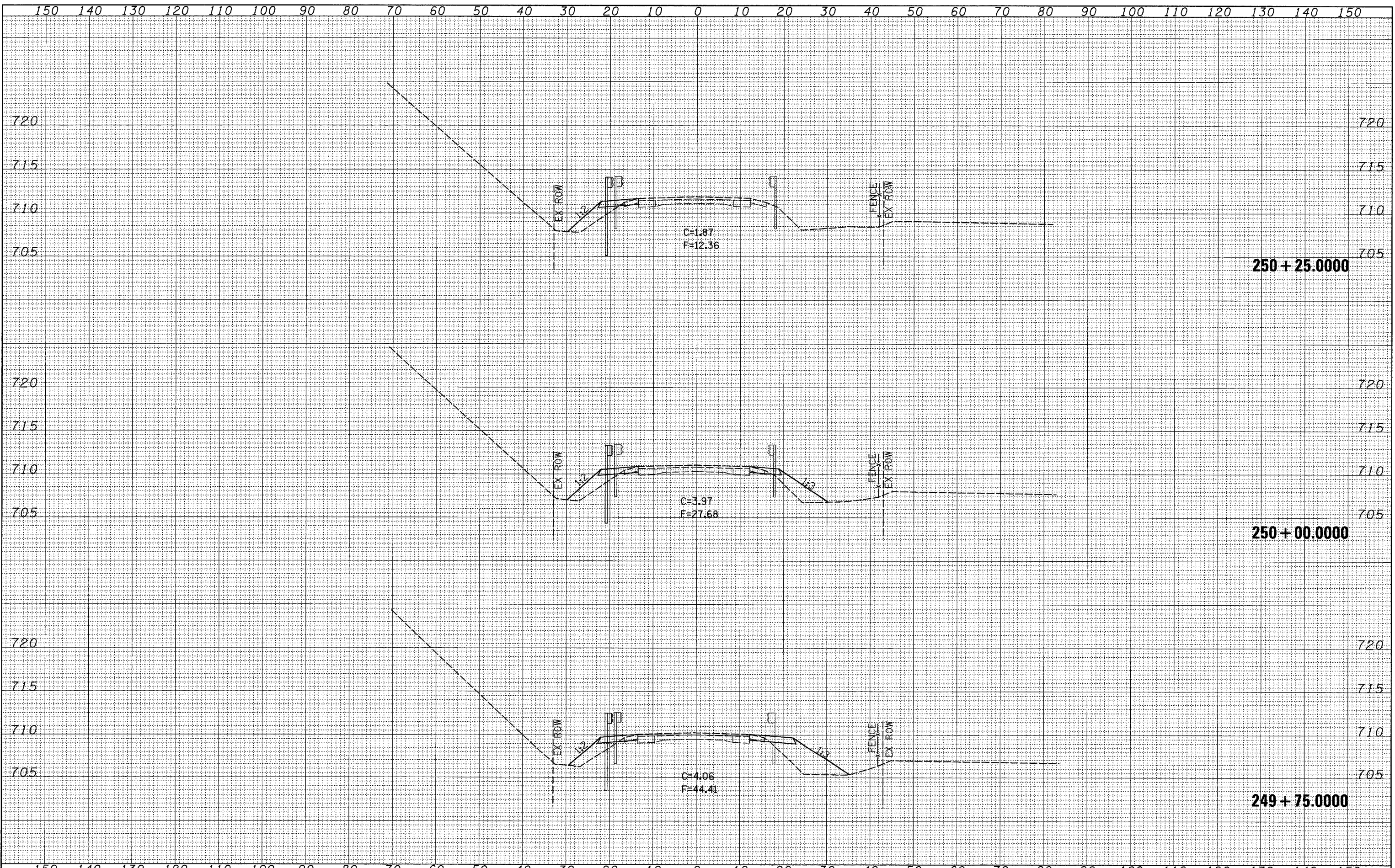
USER NAME = duncanfa	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = Wed Oct 24 13:19:32 2007	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 249+25.0000 TO STA. 249+50.0000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(5BR-1D)	CARROLL	52	45
CONTRACT NO. 64D29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
PLANNED	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLANNED	
NOTE BOOK	
NO.	

FILE NAME = c:\projects\p206907\c06907.xml.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = Wed Oct 24 13:19:32 2007	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

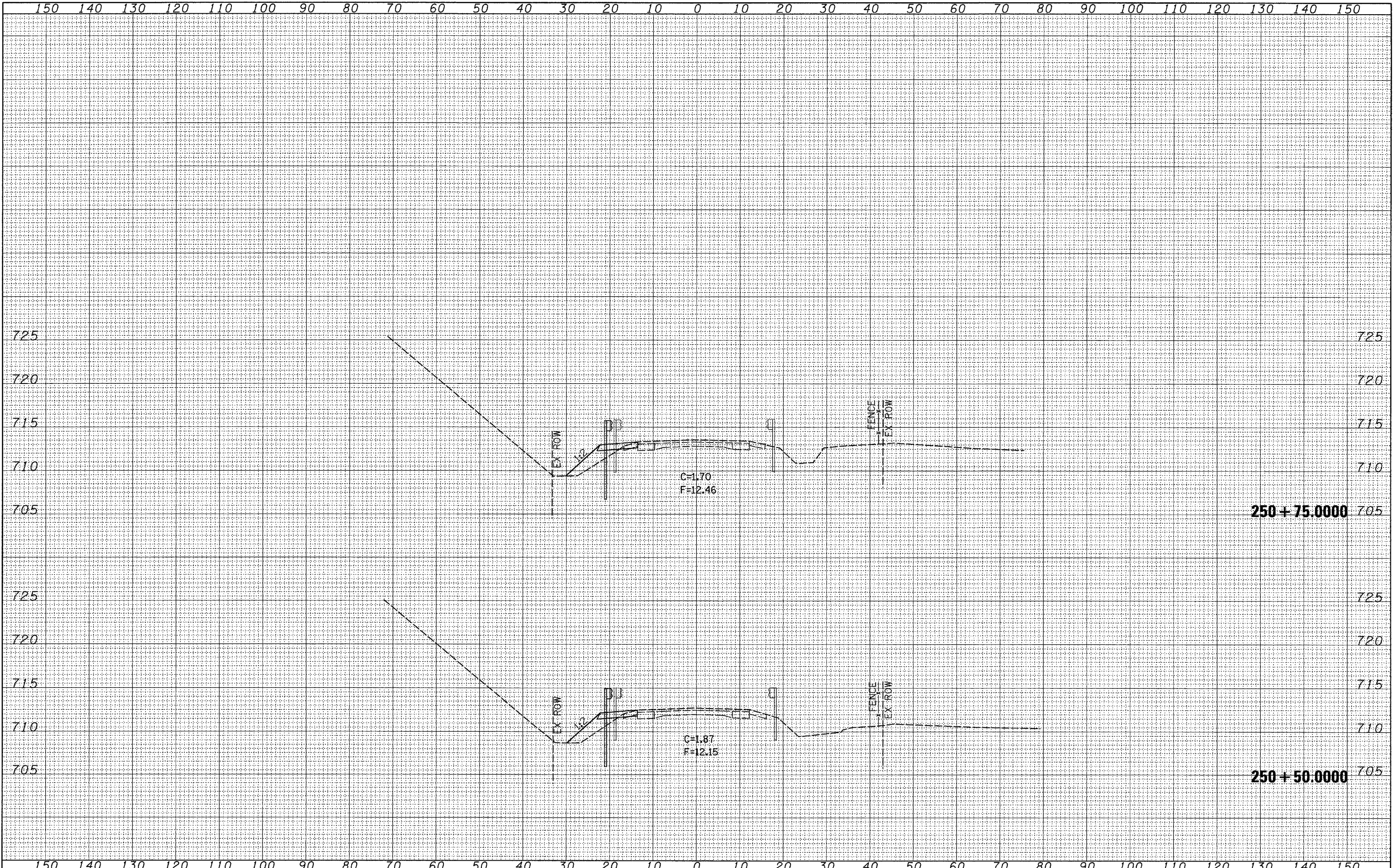
IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 249+75.0000 TO STA. 250+25.0000

F.A.P. RTE. 646	SECTION (5BR-11D)	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 46
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CONTRACT NO. 64D29		

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

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



FILE NAME = c:\projects\p226987\d26987.xml.dgn

USER NAME = duncanfe
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = Wed Oct 24 13:19:33 2007

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

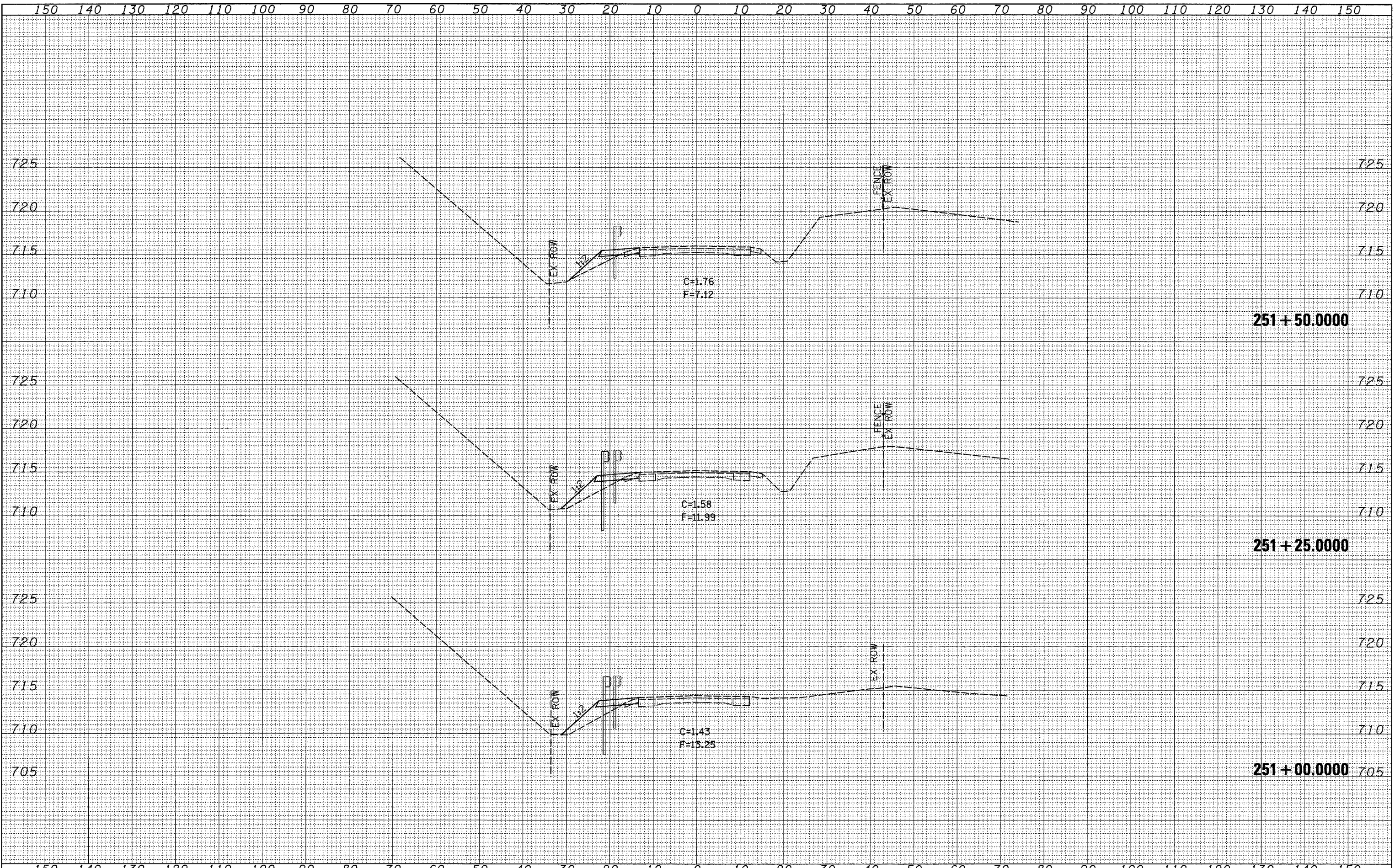
IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 250+50.0000 TO STA. 250+75.0000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(5BR-1)D	CARROLL	52	47
CONTRACT NO. 64D29				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY DATE
 SURVEYED BY
 PLANNED BY
 TEMPLATE NO.
 NOTE BOOK NO.
 AREAS CHECKED

ORIGINAL SURVEY DATE
 SURVEYED BY
 PLANNED BY
 TEMPLATE NO.
 NOTE BOOK NO.
 AREAS CHECKED



FILE NAME =
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USER NAME = duncanfa	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 18.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = Wed Oct 24 13:19:33 2007	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

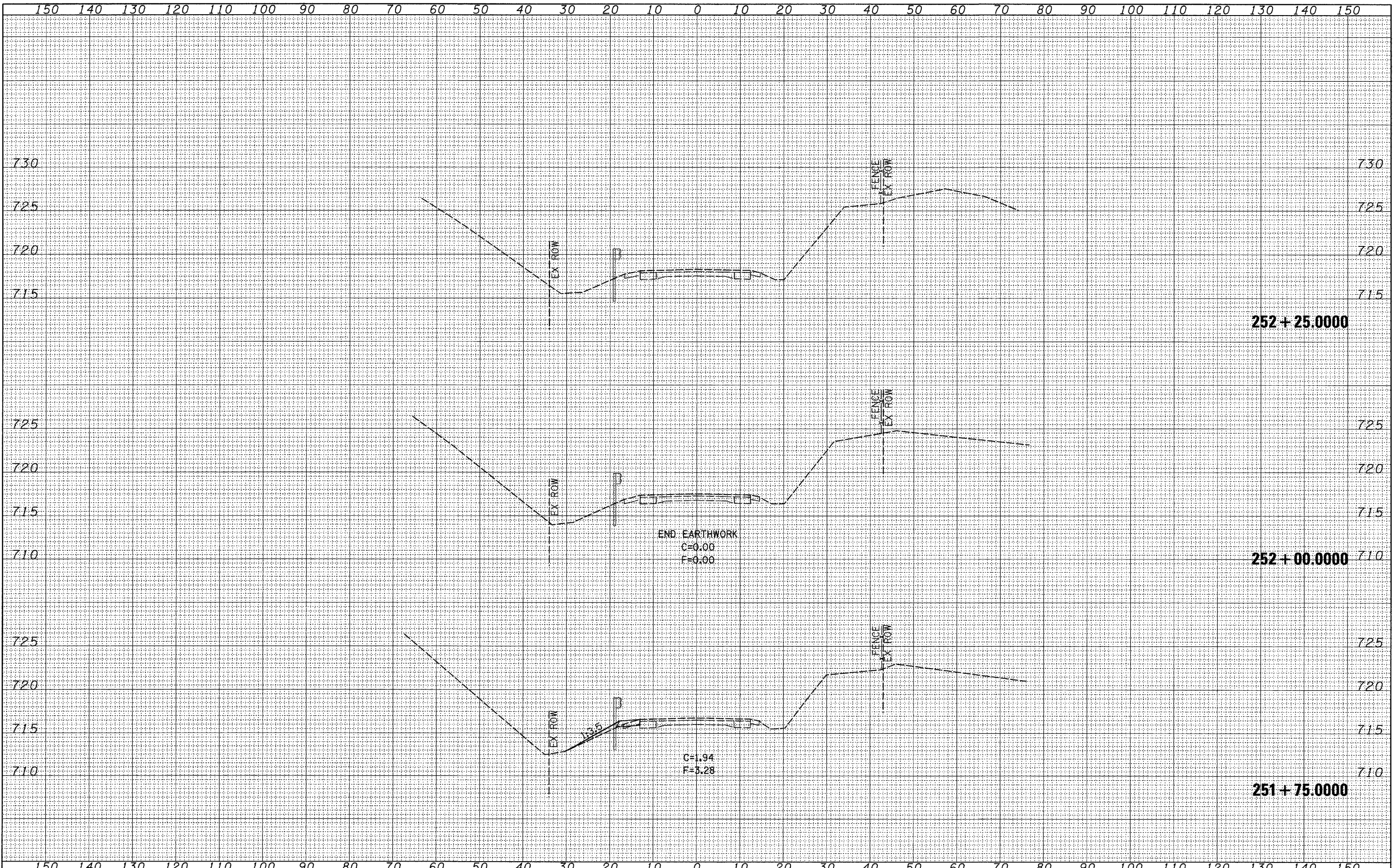
IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 251+00.000 TO STA. 251+50.000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(5BR-1)D	CARROLL	52	48
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64D29	

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

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
IN NOTE	
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CHECKED	
NO.	



FILE NAME = c:\projects\p206907\d06907.xml.dgn

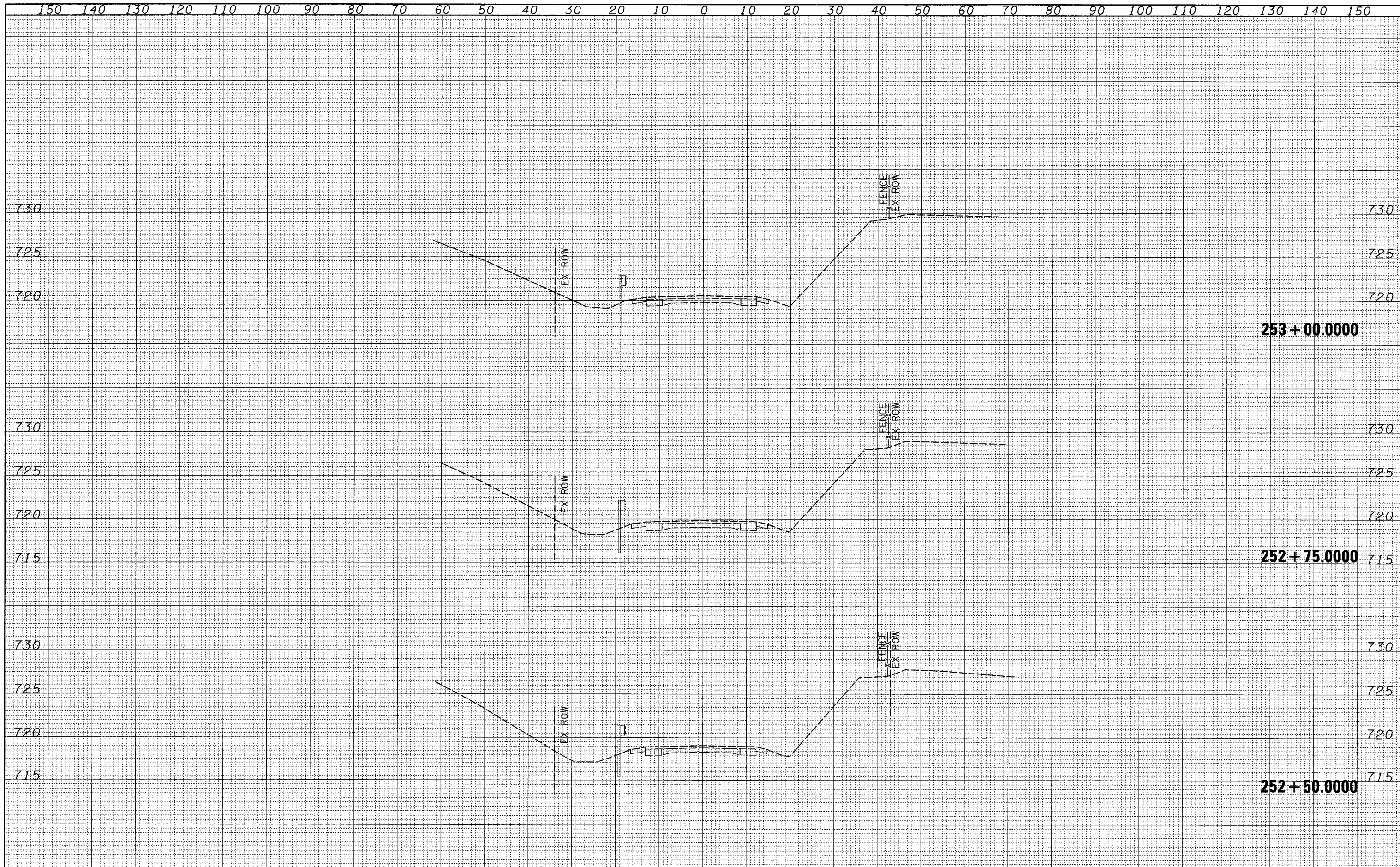
USER NAME = duncanfo	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = Wed Oct 24 13:19:33 2007	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 251+75.0000 TO STA. 252+25.0000

F.A.P. RTE. 646	SECTION (5BR-1)D	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 49
CONTRACT NO. 64D29			ILLINOIS FED. AID PROJECT	

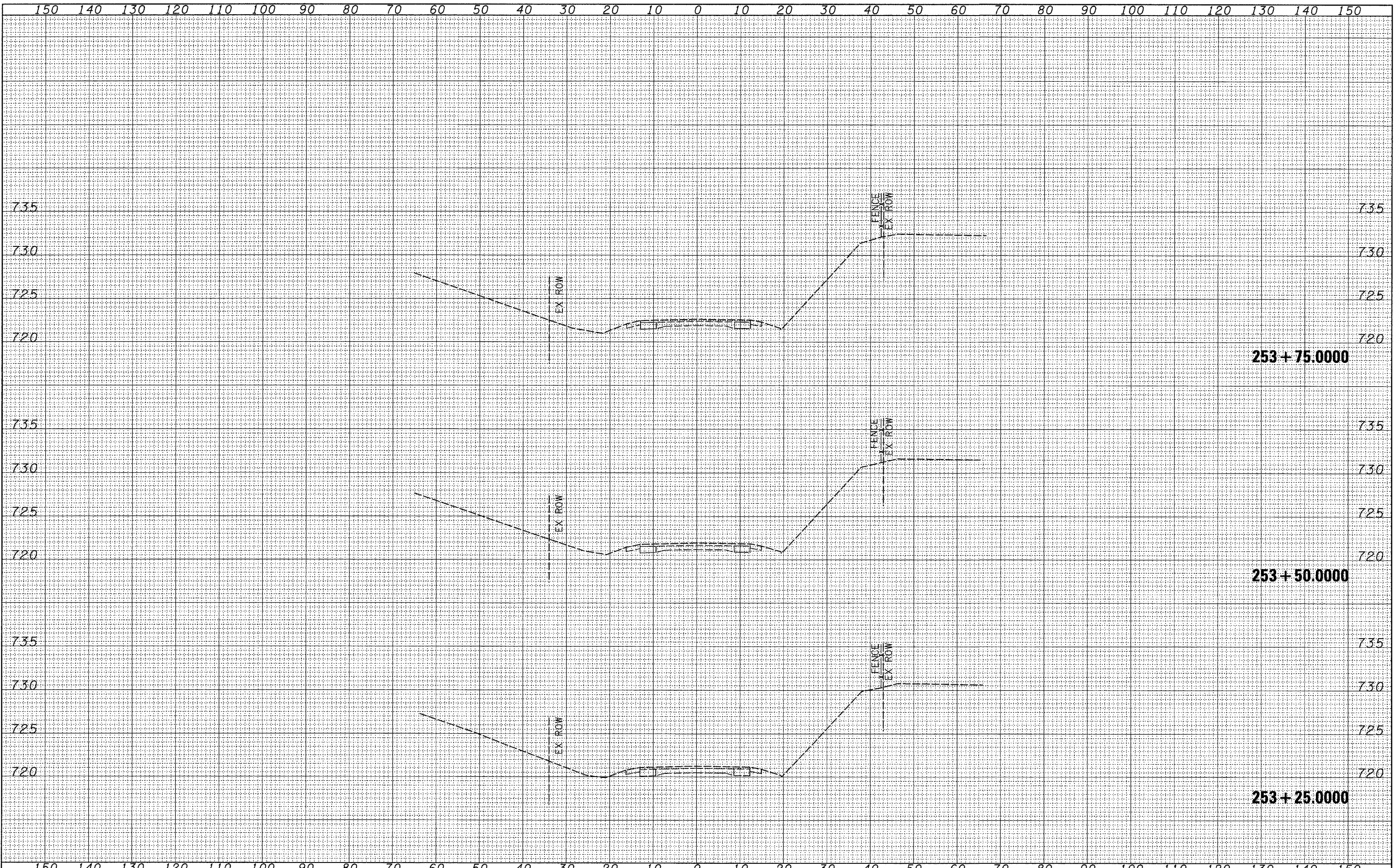


DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	

FINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NOTE BOOK NO. _____
 AREAS CHECKED: _____

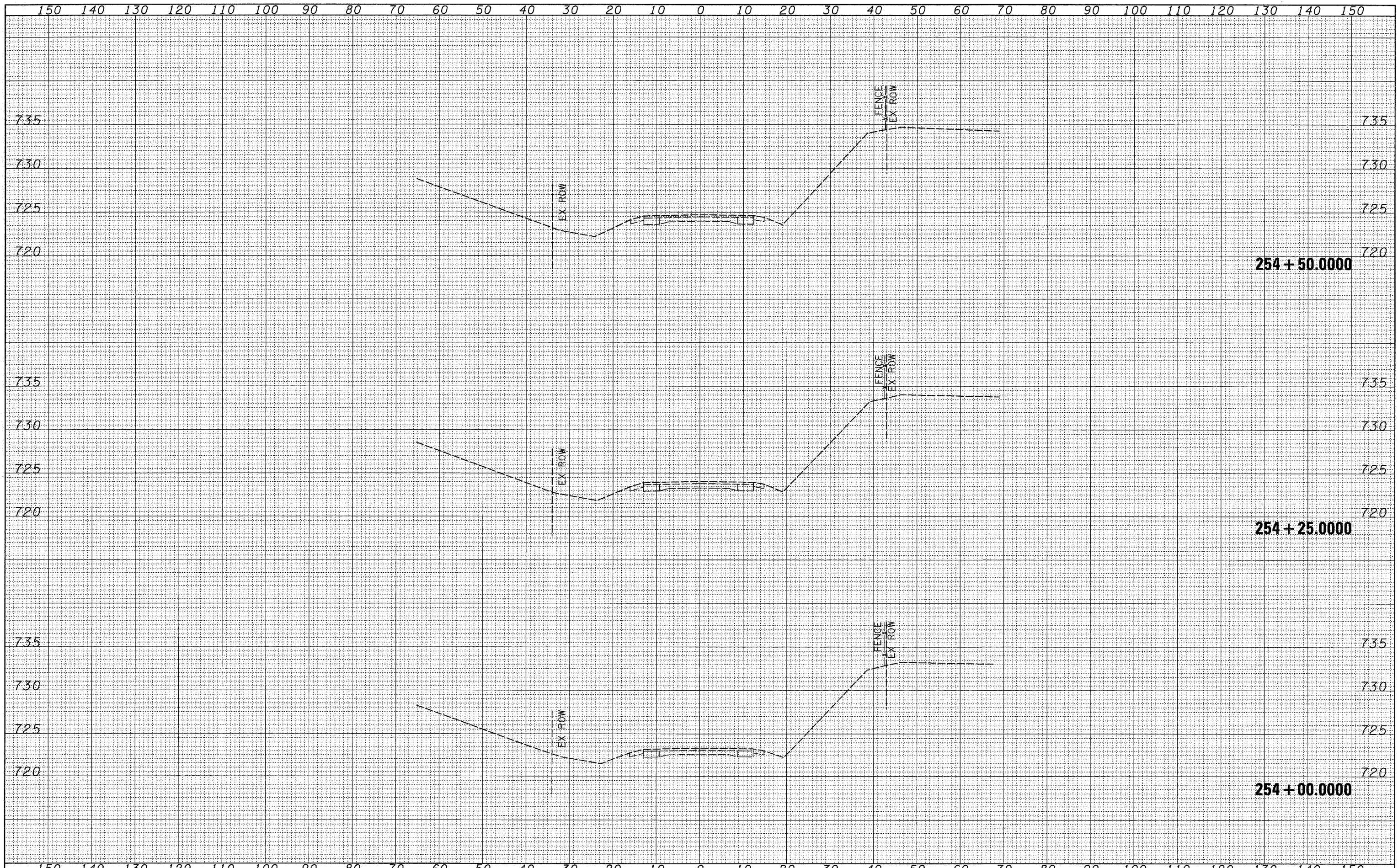
ORIGINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NOTE BOOK NO. _____
 AREAS CHECKED: _____



FILE NAME =	USER NAME = duncanfa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 40 CROSS SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\projects\p206907\c06907.xml.dgn		DRAWN -	REVISED -		646	(5BR-1)D	CARROLL	52	51		
PLOT SCALE = 10.0000' / IN.		CHECKED -	REVISED -		SCALE:		SHEET NO. OF SHEETS		STA. 253+25.0000 TO STA. 253+75.0000	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = Wed Oct 24 13:14:33 2007		DATE -	REVISED -						CONTRACT NO. 64D29		

FINAL SURVEY
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

ORIGINAL SURVEY
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



FILE NAME =
 c:\projects\p206907\d06907.xml.dgn

USER NAME = dunoanfe	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = Wed Oct 24 13:19:34 2007	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 40 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 254+00.0000 TO STA. 254+50.0000

F.A.P. RTE. 646	SECTION (5BR-1)D	COUNTY CARROLL	TOTAL SHEETS 52	SHEET NO. 52
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 64D29		