

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 324 (IL23)
SECTION 26VBR-1
PROJECT ACBHF-0324(012)
DEKALB COUNTY
C-92-001-06

D-92-004-05

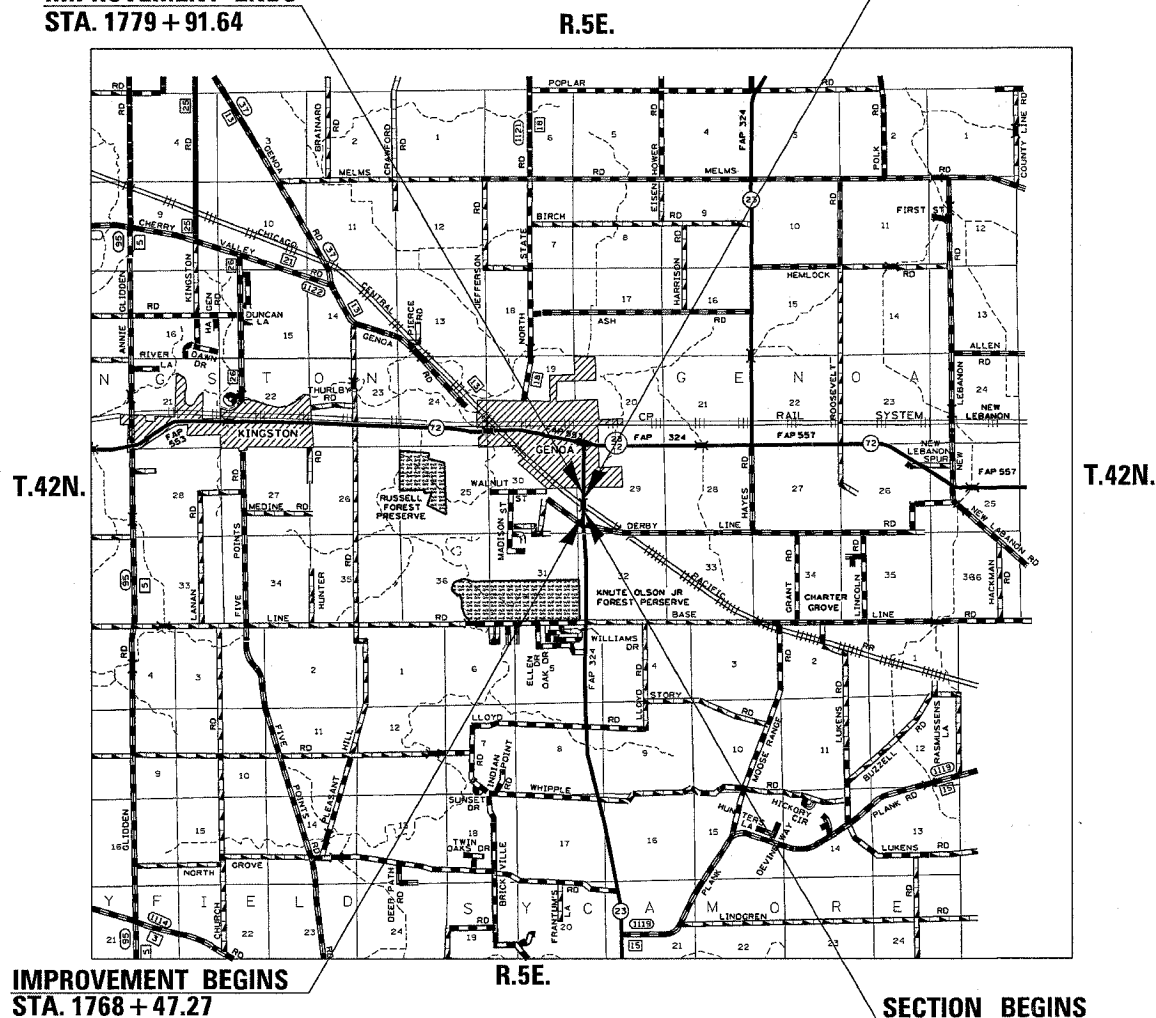


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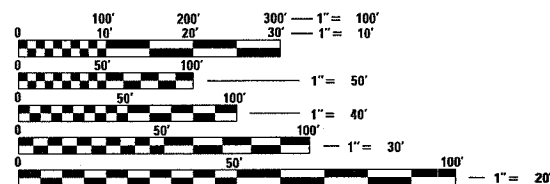
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

IMPROVEMENT ENDS
STA. 1779 + 91.64

SECTION ENDS
STA. 1774 + 30.72



GENOA TOWNSHIP SECTION - 29



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 31, 2005

Sharon L. Mank
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 14, 2005
Mike Niese
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2005
Eric E. Shantz
DEPUTY DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 64A50

NET LENGTH OF PROJECT = 201.24 LIN. FT = 0.038 MILES
GROSS LENGTH OF PROJECT = 201.24 LIN. FT = 0.038 MILES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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27 -	WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE 2 (38.4)
27 -	INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) (39.4)
27 -	STOP LINE SIGN FOR TEMPORARY SIGNALS (99.4)
28 - 29	TYPICAL PAVEMENT MARKINGS (41.1)
30 - 39	IL 23 CROSS SECTIONS

STATE STANDARDS

001001	Areas of Reinforcement Bars
001006	Decimal of an Inch and of a Foot
482001	Bituminous Shoulder Adjacent to Flexible Pavement
515001 - 02	Name Plate for Bridges
630001 - 05	Steel Plate Beam Guardrail
630301 - 03	Shoulder Widening for Type 1 (Special) Guardrail Terminals
631032 - 01	Traffic Barrier Terminal, Type 6A
635001	Delineators
635006 - 02	Reflector and Terminal Marker Placement
635011 - 01	Reflector Marker and Mounting Details
667101	Permanent Survey Markers
701006 - 02	Typical Application of Traffic Control Standard
701201 - 02	Typical Application of Traffic Control Standard
701301 - 02	Typical Application of Traffic Control Standard
701311 - 02	Typical Application of Traffic Control Standard
701321 - 08	Typical Application of Traffic Control Standard
701326 - 02	Typical Application of Traffic Control Standard
702001 - 05	Traffic Control Devices
704001 - 02	Temporary Concrete Barrier
720011	Metal Post for Signs, Markers and Delineators
780001 - 01	Typical Pavement Markings
886001	Detector Loop Installations
886006	Typical Layout for Detection Loops

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE
DRAWN BY		CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	X180-2A 80% FED/ 20% STATE	SF 1V - 3N 80% FED/ 20% STATE
20200100	EARTH EXCAVATION	CU YD	216	216	
20400800	FURNISHED EXCAVATION	CU YD	55	55	
44000007	BITUMINOUS SURFACE REMOVAL 2"	SQ YD	225	225	
44004510	PORTLAND CEMENT CONCRETE SHOULDER REMOVAL	SQ YD	10	10	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	412	412	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1	
50300260	BRIDGE DECK GROOVING	SQ YD	685	685	
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	716	716	
50301245	FORMED CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	591	591	
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	6648	6648	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9390	9390	
50901005	STEEL BIRDGE RAIL, TYPE SM	FOOT	278	278	
51500100	NAME PLATES	EACH	1	1	
59000100	EPOXY CRACK SEALING	FOOT	68	68	
61100605	MISCELLANEOUS CONCRETE	CU YD	2.4	2.4	
63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	150	150	
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
63301210	REMOVE AND RE - ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	765	765	
63500105	DELINEATORS	EACH	3	3	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2	
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	690	690	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	570	570	
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2520	2520	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3	
78300500	PAINT PAVEMENT MARKING REMOVAL	SQ FT	367	367	
X0323557	BRIDGE JOINT SYSTEM (EXPANSION), 1"	FOOT	58	58	
X0323558	BRIDGE JOINT SYSTEM (EXPANSION), 1-5/8"	FOOT	58	58	
X0712400	TEMPORARY PAVEMENT	SQ YD	174	174	
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	25	25	
X6330103	REMOVE AND RE - ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, TANGENT	EACH	3	3	
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	96	96	
Z0002600	BAR SPLICERS	EACH	149	149	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON - REDIRECTIVE), TEST LEVEL 3	EACH	2		2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON - REDIRECTIVE), TEST LEVEL 3	EACH	2		2
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
	*SPECIALTY ITEMS				

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GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 324 (IL 23)	26VBR-1	DeKalb		
FED ROAD DIST. NO.	ILLINOIS	PROJECT	39	4
Contract #64A50				

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 42 cubic meters (55 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 6 (modified) shall be used on front slopes and ditch bottoms. 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):	Mainline Surface Course	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 58-22	PG 58-22
RAP%: (Max)	10%	30%	30%
Design Air Voids	4.2 @ N70	3 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5 or 12.5	BAM
Friction Aggregate	D	C	N/A
20 Year ESAL	4.3	N/A	N/A

Install a "TO ACTUATE SIGNAL" sign for the traffic signal detector loops. The detail of this sign is included in the plans. This work will be included in the cost of TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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 SURFACE COURSE of the type specified.

This structure will retain the same number 019-0005.

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 Eric Harm, 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)

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. Verizon
 NICOR Gas Co. Charter Communications
 City of Genoa

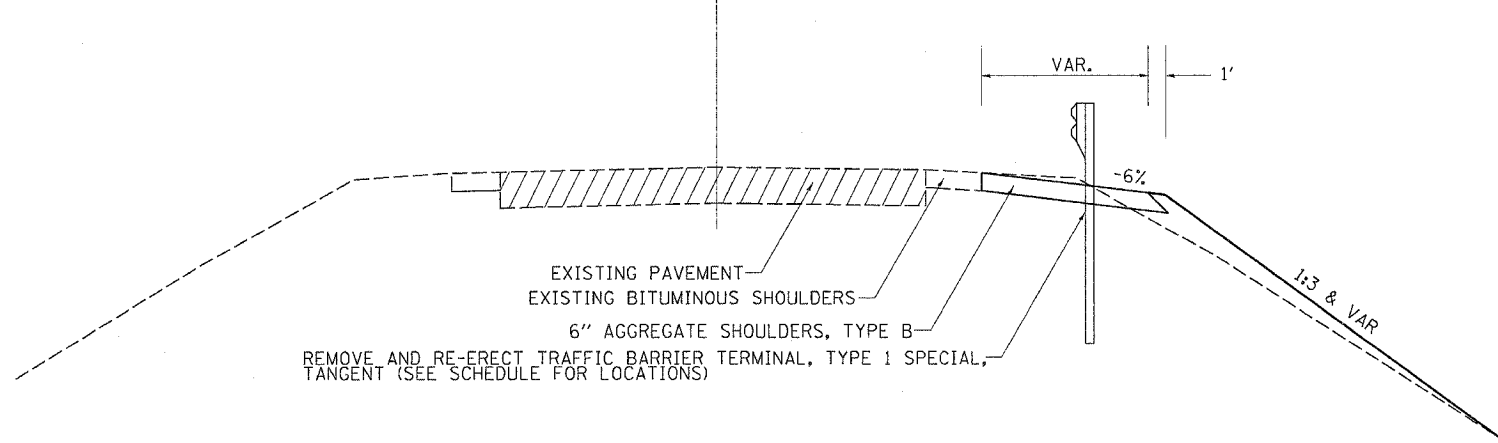
CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any 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.

Program #6
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 Enlarge 107%

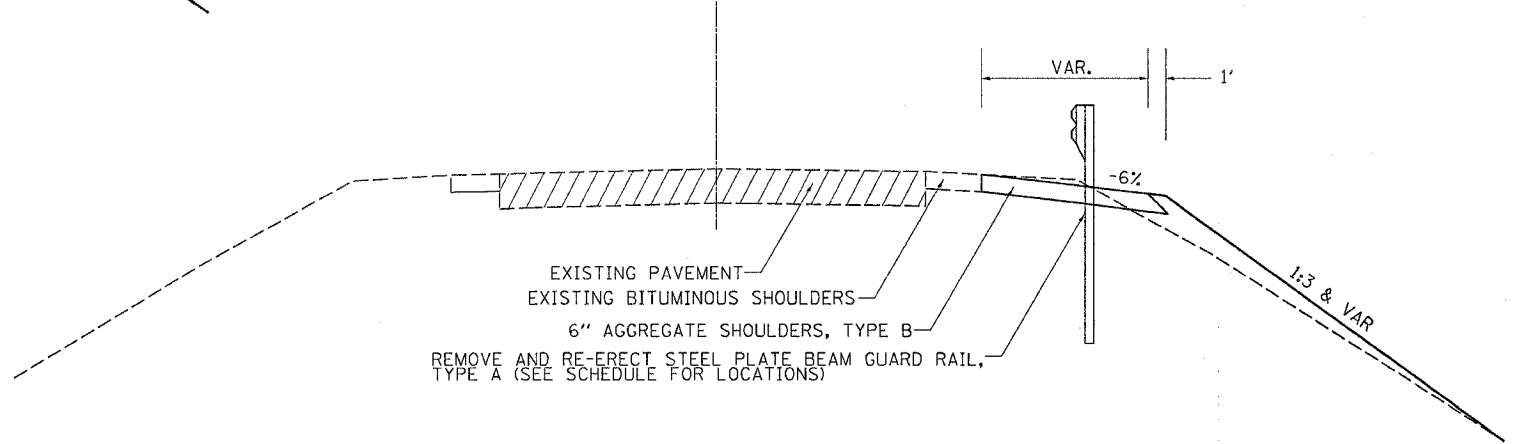
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	5
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

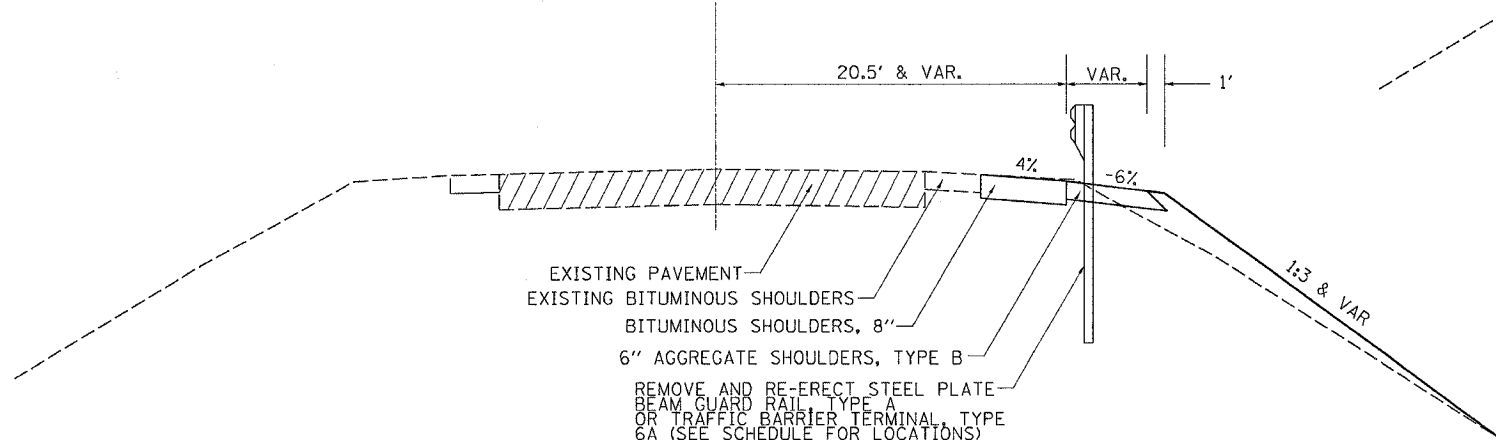
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 CL IL 23



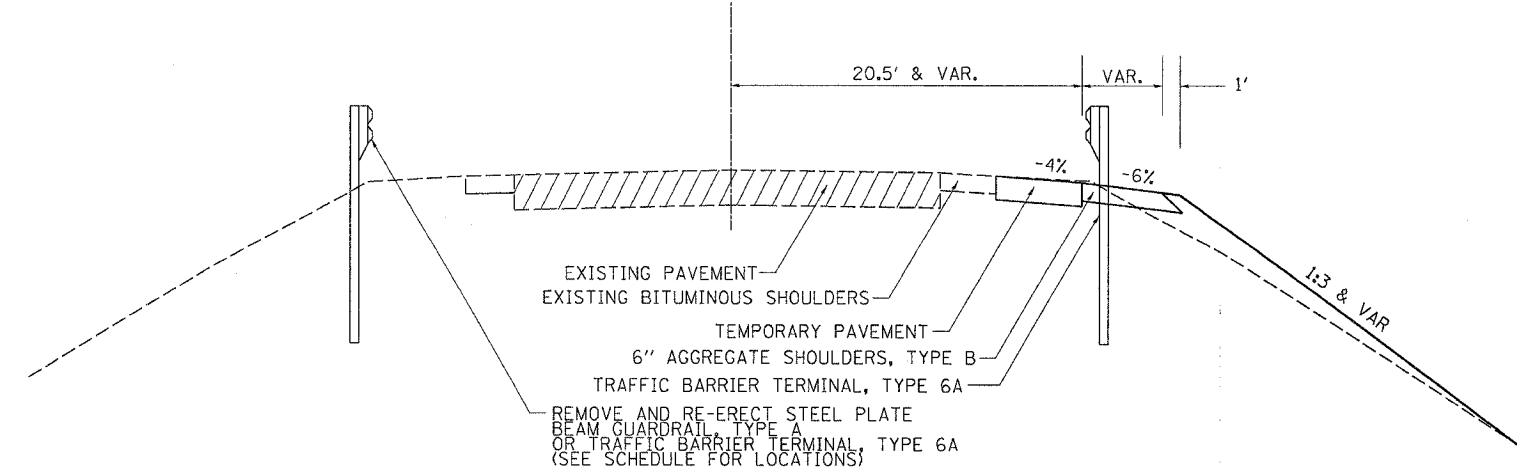
STA. 1769+62 - STA. 1770+76
 CL IL 23



STA. 1770+76 - STA. 1772+18
 CL IL 23



STA. 1772+18 - STA. 1772+76
 CL IL 23

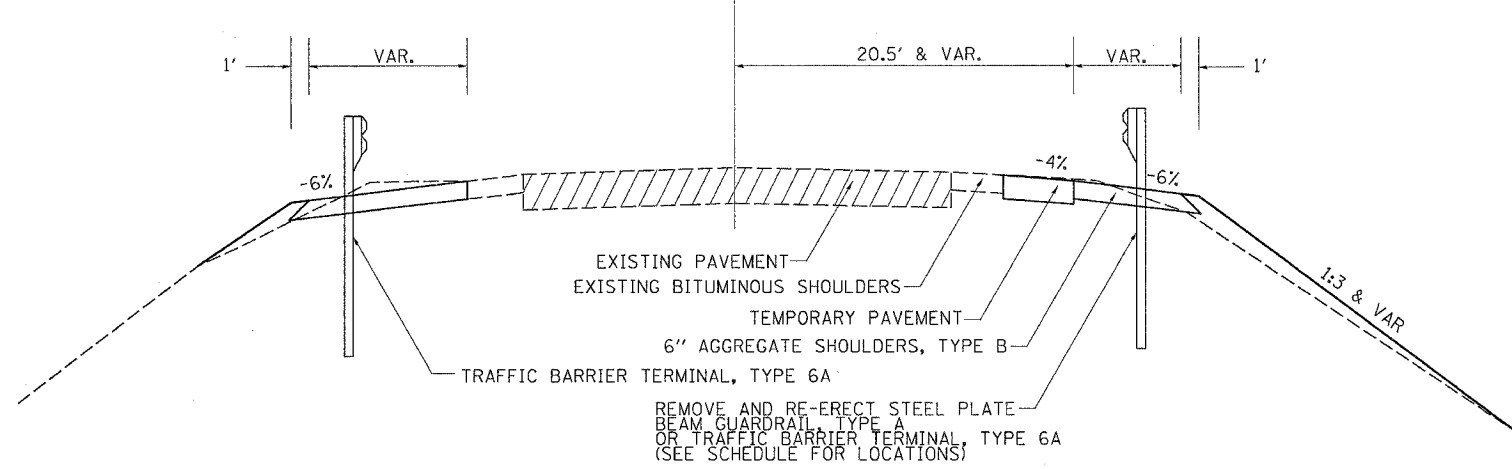


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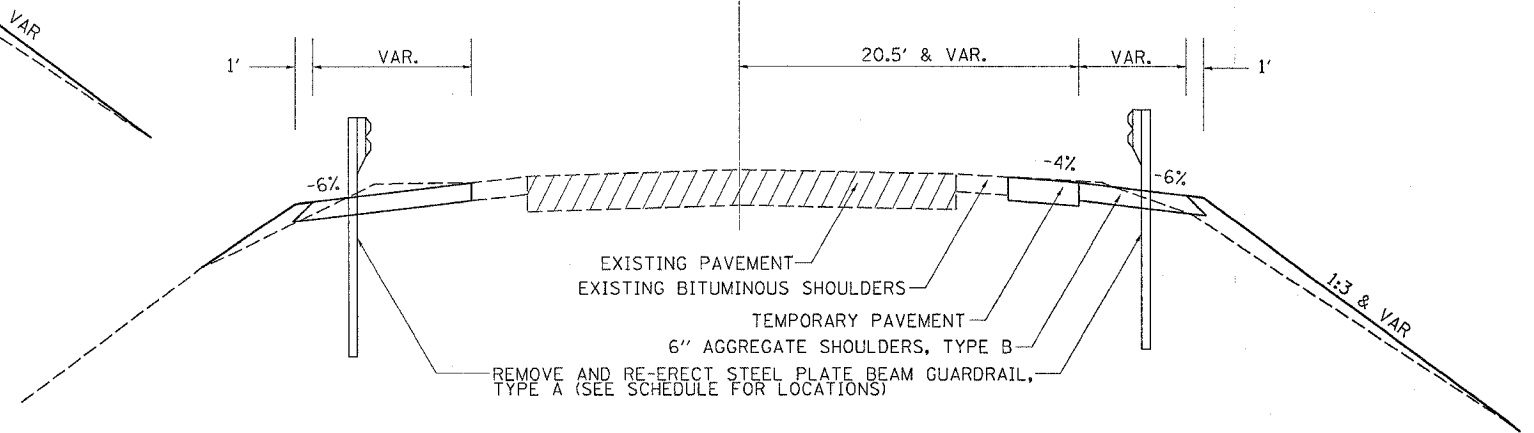
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

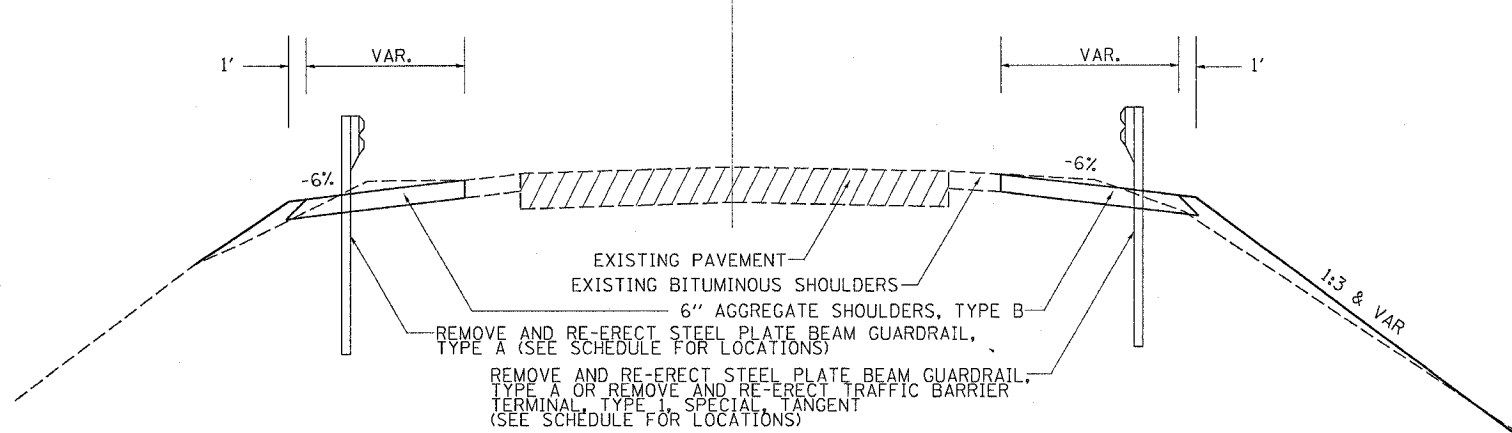
STA. 1773+84 - STA. 1774+48
 CL IL 23



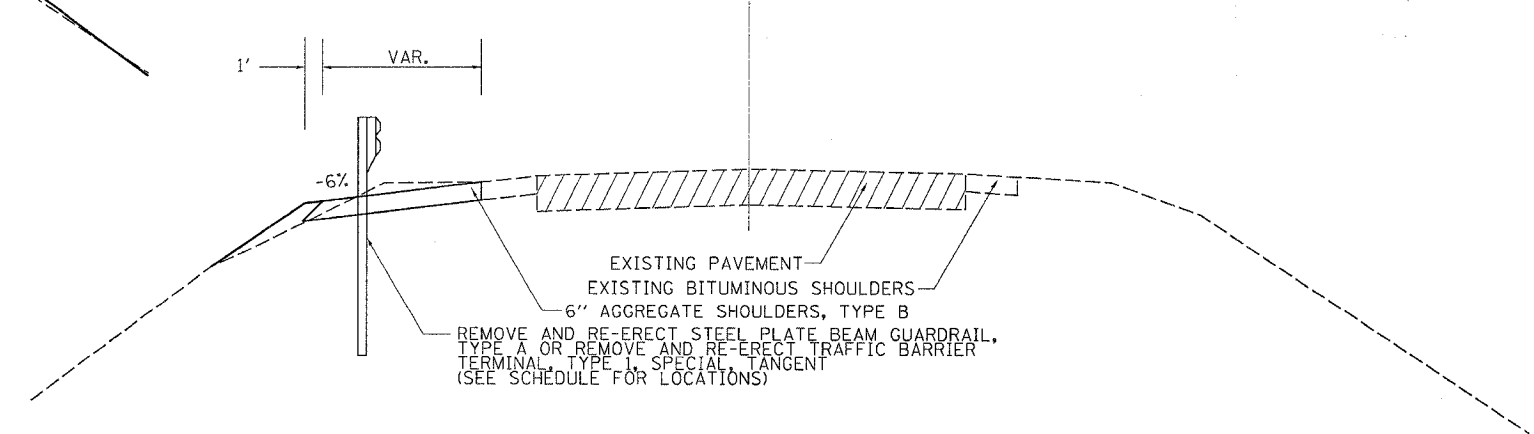
STA. 1774+48 - STA. 1775+88
 CL IL 23



STA. 1775+88 - STA. 1777+31
 CL IL 23



STA. 1777+31 - STA. 1779+91.64
 CL IL 23



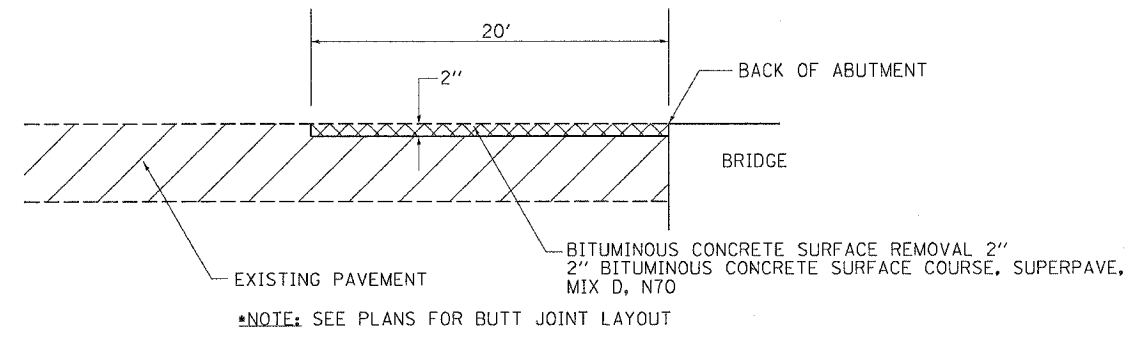
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324	26VBR-1	DEKALB	39	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

BITUMINOUS SURFACE REMOVAL - BUTT JOINT

STA 1772+29.48 TO STA 1772+68.57
STA 1773+91.49 TO STA 1774+30.72



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324	26VBR-1	DEKALB	39	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

20200100 EARTH EXCAVATION

CU YD	LOCATION			
61.40	IL 23 RT	1768+47	-	1772+45
154.90	LT&RT	1773+84	-	1779+92
216.30	TOTAL			

20400800 FURNISHED EXCAVATION

CU YD	LOCATION			
55.10	IL 23 RT	1768+78	-	1771+25
55.10	TOTAL			

44000007 BITUMINOUS SURFACE REMOVAL 2"

SQ YD	LOCATION			
105	IL 23 LT&RT	1772+29	-	1772+69
120	LT&RT	1773+91	-	1774+31
225	TOTAL			

44004510 PORTLAND CEMENT CONCRETE SHOULDER REMOVAL

SQ YD	LOCATION			
3	IL 23 RT	1772+33	-	1772+45
2	LT	1772+65	-	1772+76
2	RT	1773+84	-	1773+95
3	LT	1774+16	-	1774+27
10	TOTAL			

48101200 AGGREGATE SHOULDERS TYPE B

TONS	LOCATION			
109	IL 23 RT	1768+47	-	1772+45
104	RT	1773+84	-	1777+81
199	LT	1774+15	-	1779+91
412	TOTAL			

61100605 MISCELLANEOUS CONCRETE

CU YD	LOCATION			
0.7	IL 23 RT	1772+33	-	1772+45
0.5	LT	1772+65	-	1772+76
0.5	RT	1773+84	-	1773+95
0.7	LT	1774+16	-	1774+27
2.4	TOTAL			

63000000 STEEL PLATE BEAM GUARDRAIL TYPE A

FOOT	LOCATION			
150	IL 23 LT	1777+13	-	1778+61
150	TOTAL			

63100087 TRAFFIC BARRIER TERMINAL TYPE 6A

EACH	LOCATION			
1	IL 23 LT	1772+43	-	1772+76
1	RT	1772+12	-	1772+45
1	LT	1774+15	-	1774+48
1	RT	1773+84	-	1774+17
4	TOTAL			

63301210 REMOVE AND RE-ERECT STEEL PLAT BEAM GUARD RAIL TYPE A

FOOT	LOCATION			
58	IL 23 RT	1772+18	-	1772+76 (REMOVE)
25	RT	1772+18	-	1772+43 (RE-ERECT/ USED FOR TOTAL)
255	LT	1769+90	-	1772+45 (REMOVE)
250	LT	1769+62	-	1772+12 (RE-ERECT/ USED FOR TOTAL)
207	RT	1773+84	-	1775+91 (REMOVE)
225	RT	1774+17	-	1776+42 (RE-ERECT/ USED FOR TOTAL)
245	LT	1774+15	-	1776+60 (REMOVE)
265	LT	1774+48	-	1777+13 (RE-ERECT/ USED FOR TOTAL)
765	TOTAL			

63500105 DELINEATORS

EACH	LOCATION			
1	IL 23 RT	1769+12		
1	RT	1776+92		
1	LT	1779+11		
3	TOTAL			

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION			
690	IL 23 LT	1769+86	-	1776+72
690	TOTAL			

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION			
570	IL 23 RT	1770+45	-	1776+15
570	TOTAL			

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

FOOT	LOCATION			
520	IL 23 STA.	1768+08	-	1778+52 (YELLOW SKIP DASH)
1140	RT STA	1770+50	-	1776+20 (WHITE EDGE LINE)
860	LT STA	1771+15	-	1775+45 (WHITE EDGE LINE)
2520	TOTAL			

78200410 GUARDRAIL MARKERS TYPE A

EACH	LOCATION			
4	IL 23 RT	1769+62	-	1772+45
4	LT	1772+18	-	1772+76
4	LT	1774+15	-	1778+61
4	RT	1773+84	-	1776+42
16	TOTAL			

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION			
1	IL 23 RT	1769+12		
1	RT	1776+92		
1	LT	1779+11		
3	TOTAL			

78300505 PAINT PAVEMENT MARKING REMOVAL

FOOT	LOCATION			
80	IL 23 STA.	1768+08	-	1771+15 (YELLOW SKIP DASH)
80	STA.	1778+45	-	1778+52 (YELLOW SKIP DASH)
570	RT STA	1770+50	-	1776+20 (WHITE EDGE LINE)
430	LT STA	1771+15	-	1775+45 (WHITE EDGE LINE)
1160	TOTAL			

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

X0712400 TEMPORARY PAVEMENT

SQ. YD	LOCATION			
78	IL 23 RT	1770+76	-	1772+33
96	RT	1774+04	-	1775+88
174	TOTAL			

X4066426 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX D, N70

TON	LOCATION			
12	IL23 LT&RT	1772+29	-	1772+69
13	LT&RT	1773+91	-	1774+31
25	TOTAL			

X6330103 REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, TANGENT

EACH	LOCATION			
1	IL 23 FROM RT TO RT	1769+40	-	1769+90
1	FROM LT TO LT	1776+60	-	1777+07
1	FROM RT TO RT	1775+91	-	1776+41
3	TOTAL	1776+42	-	1776+92

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

EACH	LOCATION			
1	IL 23 LT	1769+86		STAGE 1
1	LT	1776+72		STAGE 1
2	TOTAL			

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

EACH	LOCATION			
1	IL 23 RT	1770+45		STAGE 2
1	RT	1776+15		STAGE 2
2	TOTAL			

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B.M.

Existing Structure: Built in 1925, the original 3 span R.C. Girder Bridge was replaced in 1964 with a 3 Span PPC Deck Beam superstructure. Open R.C. Abutments and R.C. Piers were widened in 1964. The superstructure is to be removed and replaced utilizing stage construction. No salvage.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
FAP 324	26-VBR	DEKALB	39	10	13 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

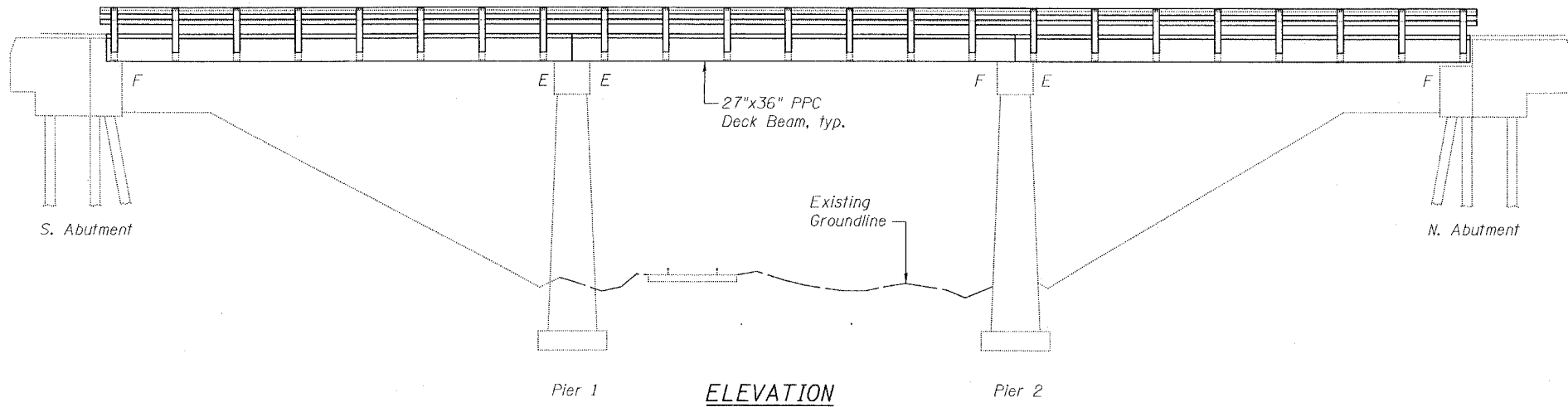
Contract #64A50

INDEX OF SHEETS

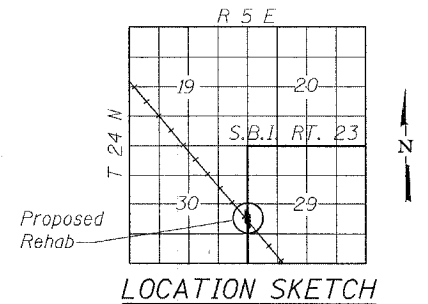
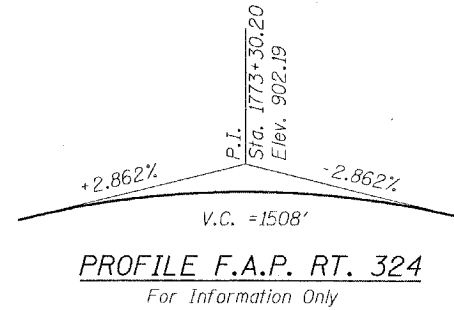
1. General Plan
2. General Notes and Stage Construction
3. Type SM Steel Bridge Rail Side Mounted
4. Concrete Wearing Surface
- 5.-7. Superstructure Details
- 8.-9. Bridge Joint System (Expansion)
- 10.-11. Pier Repairs
12. Temporary Concrete Barrier For Stage Construction
13. Bar Splicer Assembly Details

STATION 1773+30.24
 BUILT BY
 STATE OF ILLINOIS
 F.A.P. RTE. 324
 SEC. 26 VBR-1
 LOADING HS20
 STR. NO. 019-0005

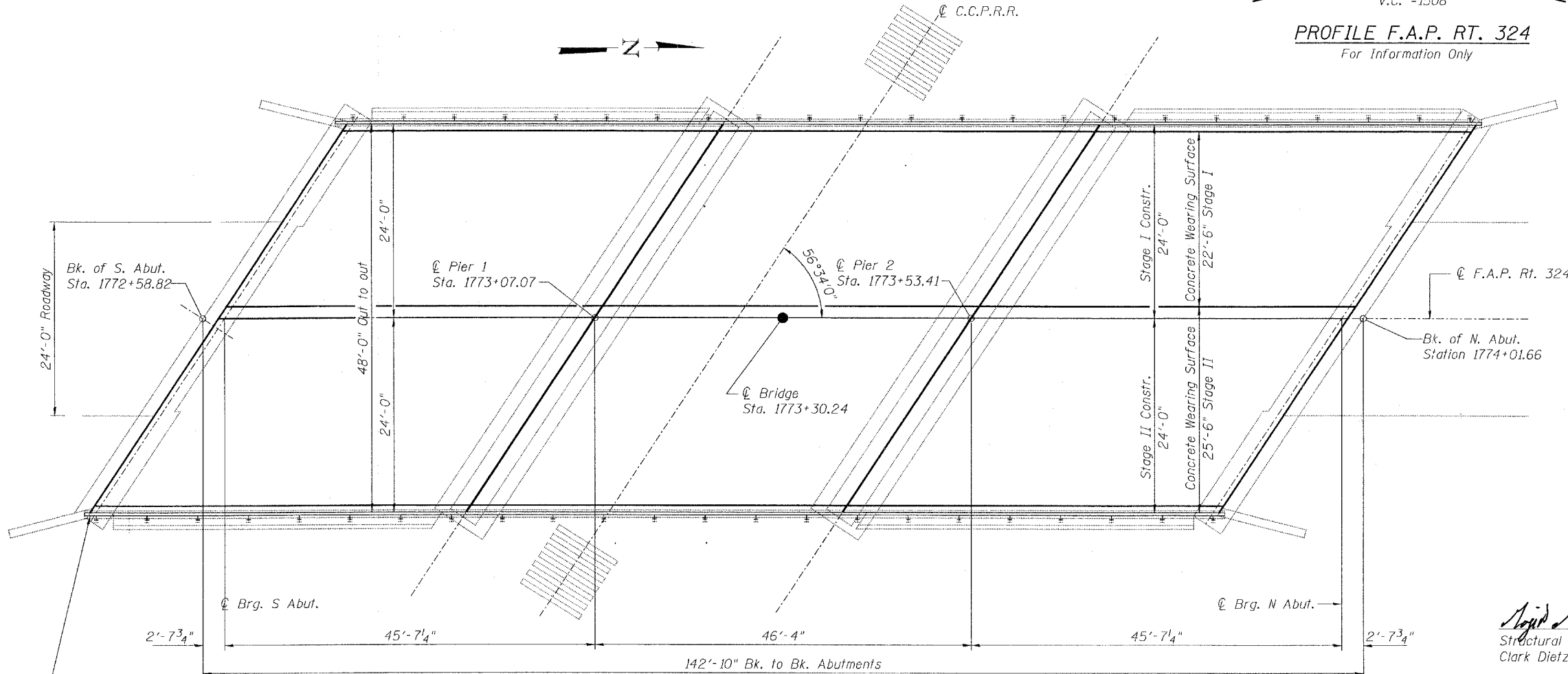
NAME PLATE
 See Std. 515001



ELEVATION



LOCATION SKETCH



PLAN

LOADING HS20-44
 No allowance for future wearing surface.
DESIGN SPECIFICATIONS
 2002 AASHTO

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 5,000$ psi
 $f'_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " ϕ low lax strands)
 $f_{si} = 201,960$ psi ($\frac{1}{2}$ " ϕ low lax strands)



Majid Mobassesi
 Structural Engineer
 Clark Dietz, Inc

DATE: 8/18/2005
 License Expires 11-30-2006

Attach new name plate to back side of 8" rail element. Clean and re-locate existing name plate. Cost included in "Name Plates."

GENERAL PLAN

F.A.P. ROUTE 324 (IL 23)
 SECTION 26 VBR-1
 DEKALB COUNTY
 STATION 1773+30.24
 STRUCTURE NO. 019-0005



CHAMPAIGN, ILLINOIS
 CHICAGO, ILLINOIS
 EVANSVILLE, INDIANA
 INDIANAPOLIS, INDIANA
 KENOSHA, WISCONSIN
 SPRING GREEN, WISCONSIN

REVISIONS		DATE	DRAWING NUMBER
NAME			

DESIGNED BY: S.L.D.	PROJECT NO. 182381
DRAWN BY: M.E.W.	DATE: 6/25
CHECKED BY: S.C.J.	
APPROVED BY: M.M.	
ACTIVITY: INITIALS	

Contract #64A50

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

All Construction joints shall be bonded.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

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

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.

Repair of the pier caps shall be completed prior to placement of the new deck beams.

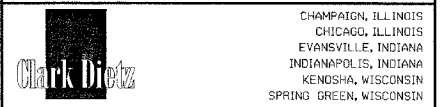
If the Contractor's procedure for existing beam removal or replacement of the new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois 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. If cranes or other heavy equipment will be placed on new beams prior to placement of the concrete wearing surface, it shall be done after the dowels rods are grouted and cured for 24 hours minimum and prior to grouting 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.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	6,648		6,648
Reinforcement Bars, Epoxy Coated	Pound	9,390		9,390
Concrete Wearing Surface, 5"	Sq. Yd.	716		716
Bridge Deck Grooving	Sq. Yd.	685.1		685.1
Steel Bridge Rail, Type SM	Foot	278		278
Name Plates	Each	1		1
Bridge Joint System (Expansion), 1"	Foot	58		58
Bridge Joint System (Expansion), 1 1/2"	Foot	58		58
Bar Splicers	Each	149		149
Formed Concrete Repair, (Depth equal to or less than 5")	Sq. Ft.		591	591
Epoxy Crack Sealing	Foot		68	68
Asbestos Bearing Pad Removal	Each	96		96

GENERAL NOTES AND STAGE CONSTRUCTION

F.A.P. ROUTE 324 (IL 23)
SECTION 26 VBR-1
DEKALB COUNTY
STATION 1773+30.24
STRUCTURE NO. 019-0005

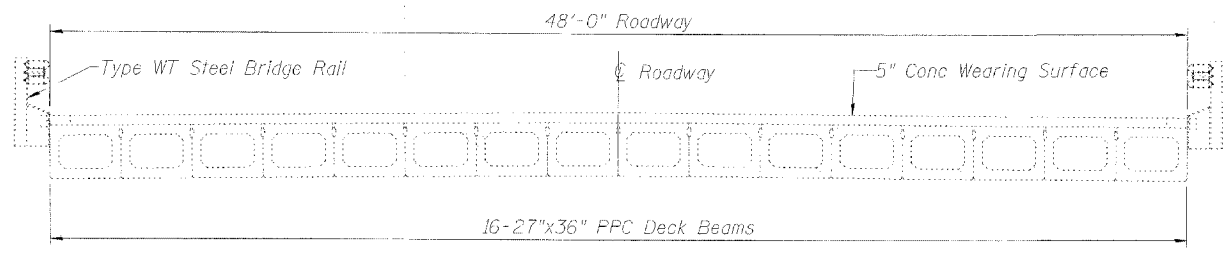


CHAMPAIGN, ILLINOIS
CHICAGO, ILLINOIS
EVANSVILLE, INDIANA
INDIANAPOLIS, INDIANA
KENOSHA, WISCONSIN
SPRING GREEN, WISCONSIN

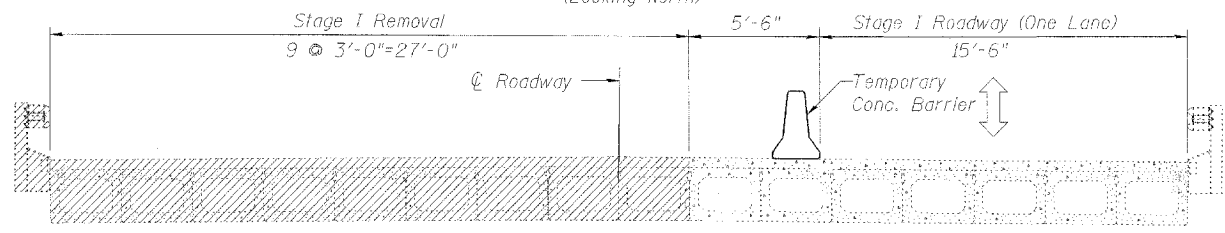
REVISIONS	
NAME	DATE

DESIGNED BY: S.L.D.	PROJECT NO: 182301
DRAWN BY: M.E.W.	DATE: 6/05
CHECKED BY: S.C.J.	
APPROVED BY: M.H.	
ACTIVITY: DETAILS	

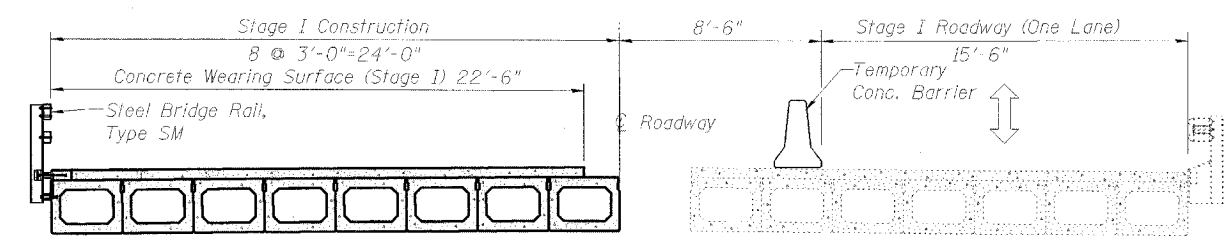
S-2



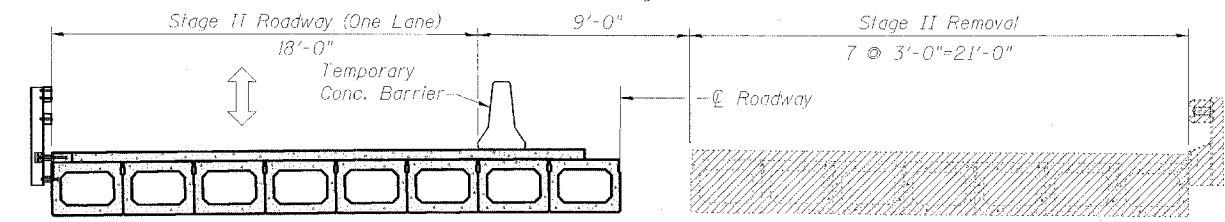
EXISTING CROSS-SECTION
(Looking North)



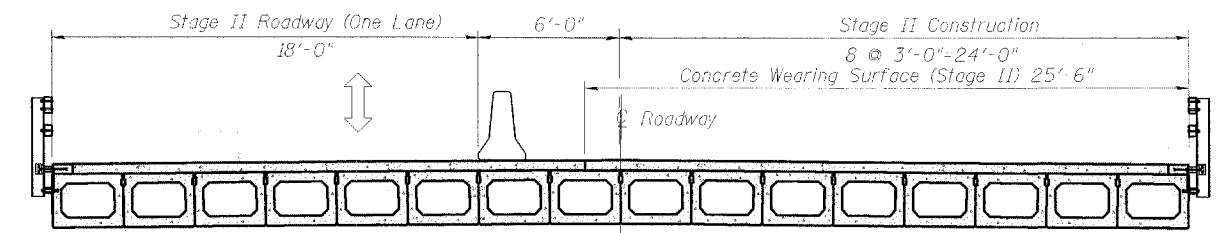
STAGE I REMOVAL
(Looking North)



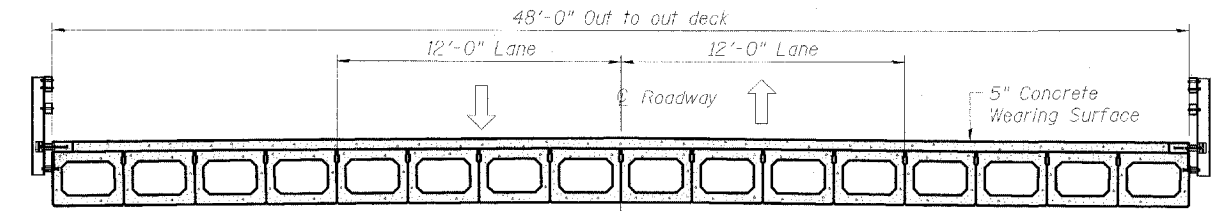
STAGE I CONSTRUCTION
(Looking North)



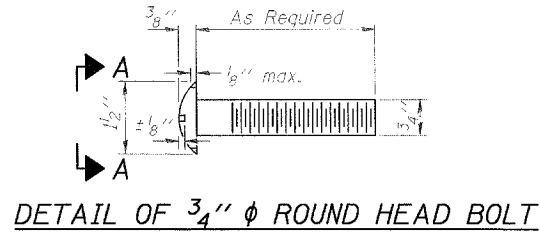
STAGE II REMOVAL
(Looking North)



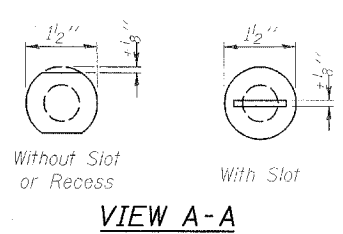
STAGE II CONSTRUCTION
(Looking North)



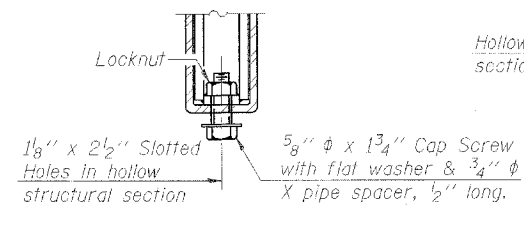
PROPOSED CROSS-SECTION
(Looking North)



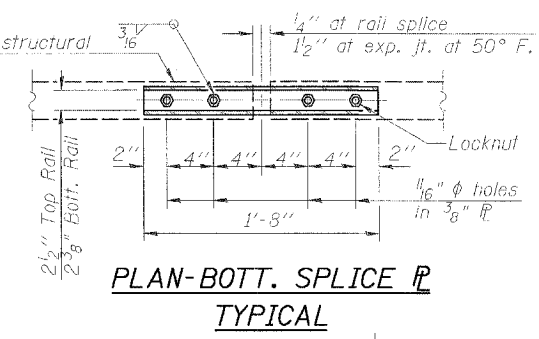
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



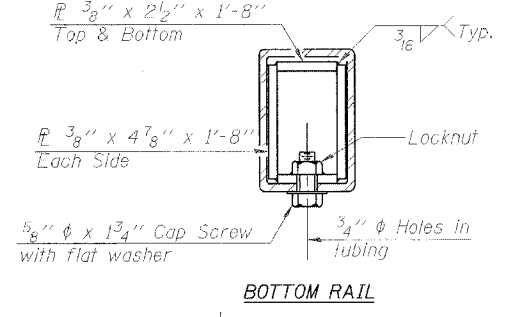
VIEW A-A



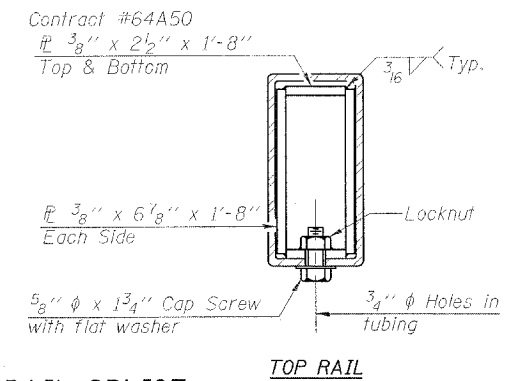
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE R TYPICAL

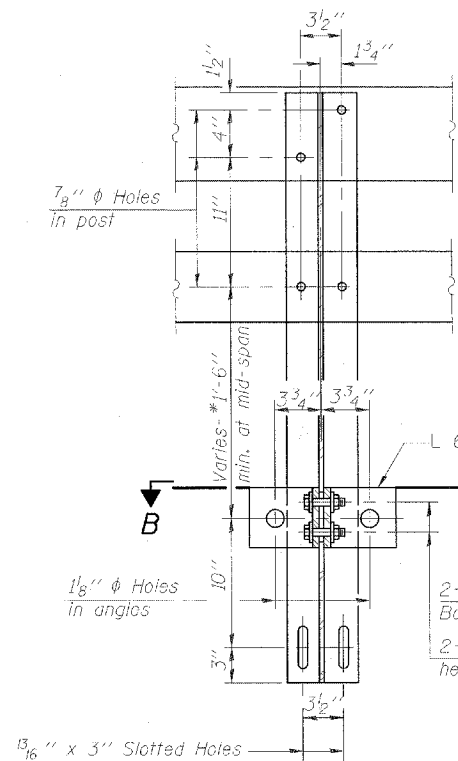


BOTTOM RAIL



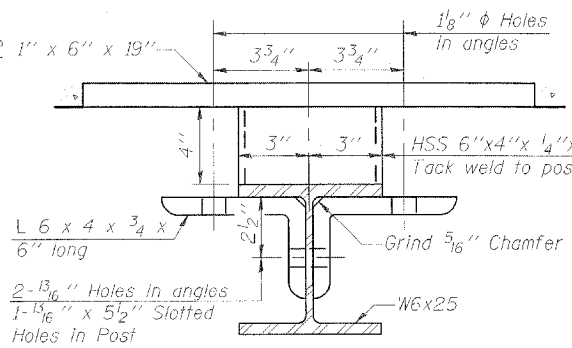
TOP RAIL

SECTIONS AT RAIL SPLICE

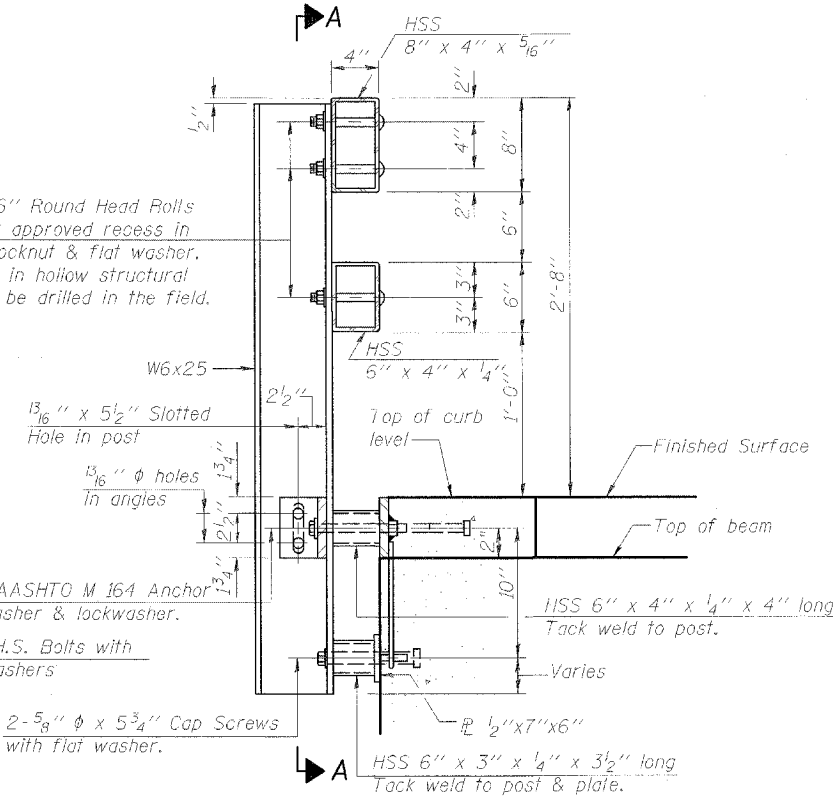


SECTION A-A

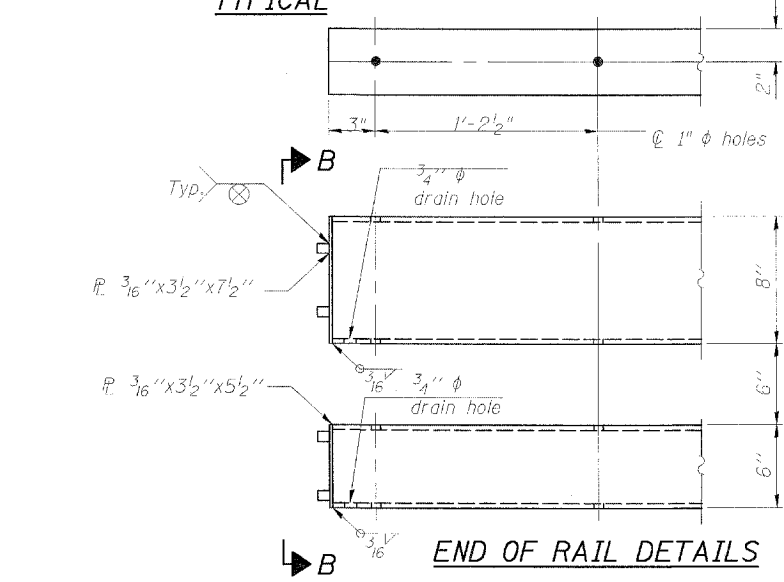
*Dimension is based on a 5" wearing surface thickness at mid-span.



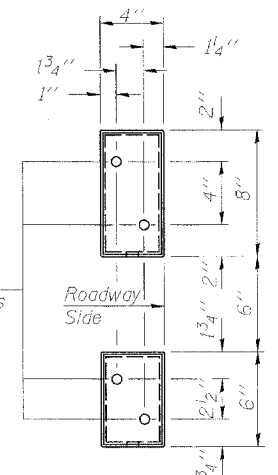
SECTION B-B



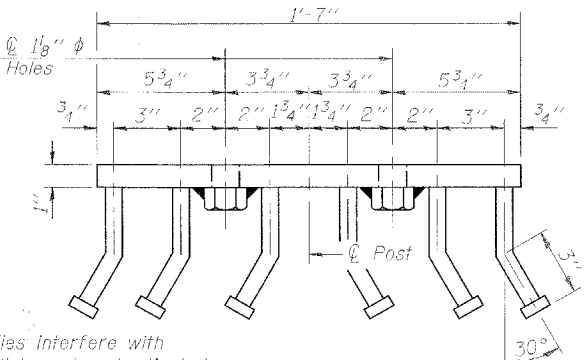
SECTION AT RAIL POST



END OF RAIL DETAILS



VIEW B-B



VIEW C-C

NOTES

Hollow structural sections 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 requirements 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 according to AASHTO M 232.

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

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail, Type SM.

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.

The 1/2" x 7" x 6" plates that come in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8" fabric bearing pads between the plates and concrete.

The 3/4" ϕ high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1" ϕ 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" ϕ cap screws in bottom of posts shall be tightened to a snug fit only.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	278

ANCHOR DEVICE

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

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

TYPE SM
STEEL BRIDGE RAIL SIDE MOUNTED

F.A.P. ROUTE 324 (IL 23)
SECTION 26 VBR-1
DEKALB COUNTY
STATION 1773+30.24
STRUCTURE NO. 019-0005

CHAMPAIGN, ILLINOIS
CHICAGO, ILLINOIS
EVANSVILLE, INDIANA
INDIANAPOLIS, INDIANA
KENOSHA, WISCONSIN
SPRING GREEN, WISCONSIN

Clark Dietz

REVISIONS		DRAWING NUMBER
NAME	DATE	
		S-3

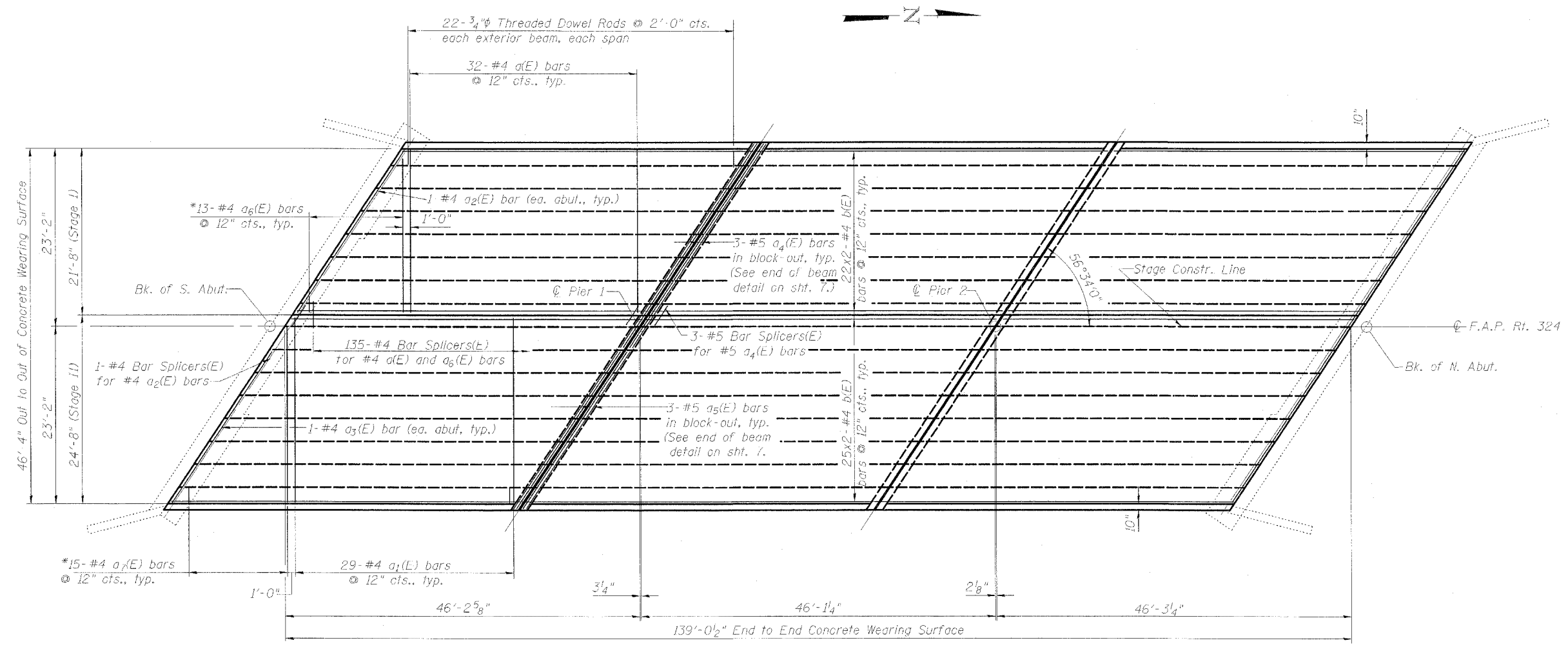
(6'-3" Maximum Post Spacing)

Contract #64A50

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	96	#4	21'-4"	
a ₁ (E)	87	#4	24'-4"	
a ₂ (E)	2	#4	25'-7"	
a ₃ (E)	2	#4	29'-3"	
a ₄ (E)	12	#5	26'-7"	
a ₅ (E)	12	#5	30'-6"	
a ₆ (E)	39	#4	22'-8"	
a ₇ (E)	45	#4	25'-8"	
b(E)	282	#4	23'-8"	
Reinforcement Bars, Epoxy Coated			Pound	9,390
Concrete Wearing Surface, 5"			Sq. Yd.	716
Bar Splicers			Each	149

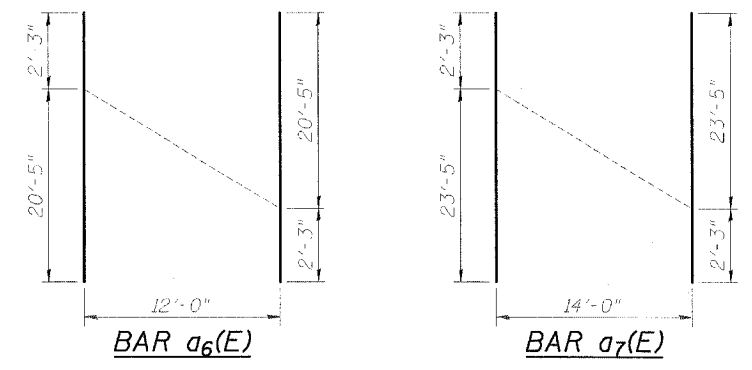
Reinforcement bars designated (E) shall be epoxy coated.
For details of Bar Splicers, see sheet 13 of 13.
Bars indicated thus 1 x 2-#5 etc., indicates 1 line of bars with 2 lengths per line.



PLAN

*Order a₆(E) and a₇(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MIN. BAR LAP
#4 Bar = 1'-8"



CUTTING DIAGRAMS

CONCRETE WEARING SURFACE

F.A.P. ROUTE 324 (IL 23)
SECTION 26 VBR-1
DEKALB COUNTY
STATION 1773+30.24
STRUCTURE NO. 019-0005

CHICAGO, ILLINOIS
CHICAGO, ILLINOIS
EVANSVILLE, INDIANA
INDIANAPOLIS, INDIANA
KENOSHA, WISCONSIN
SPRING GREEN, WISCONSIN



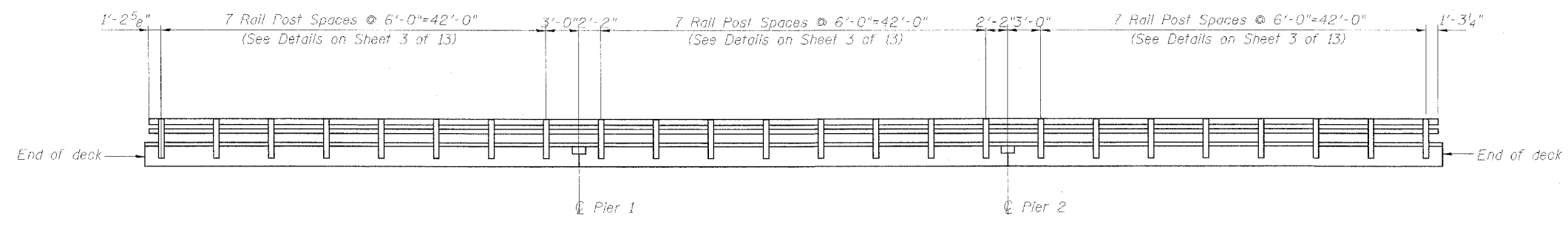
REVISIONS		DATE	DRAWING NUMBER
NAME			
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NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

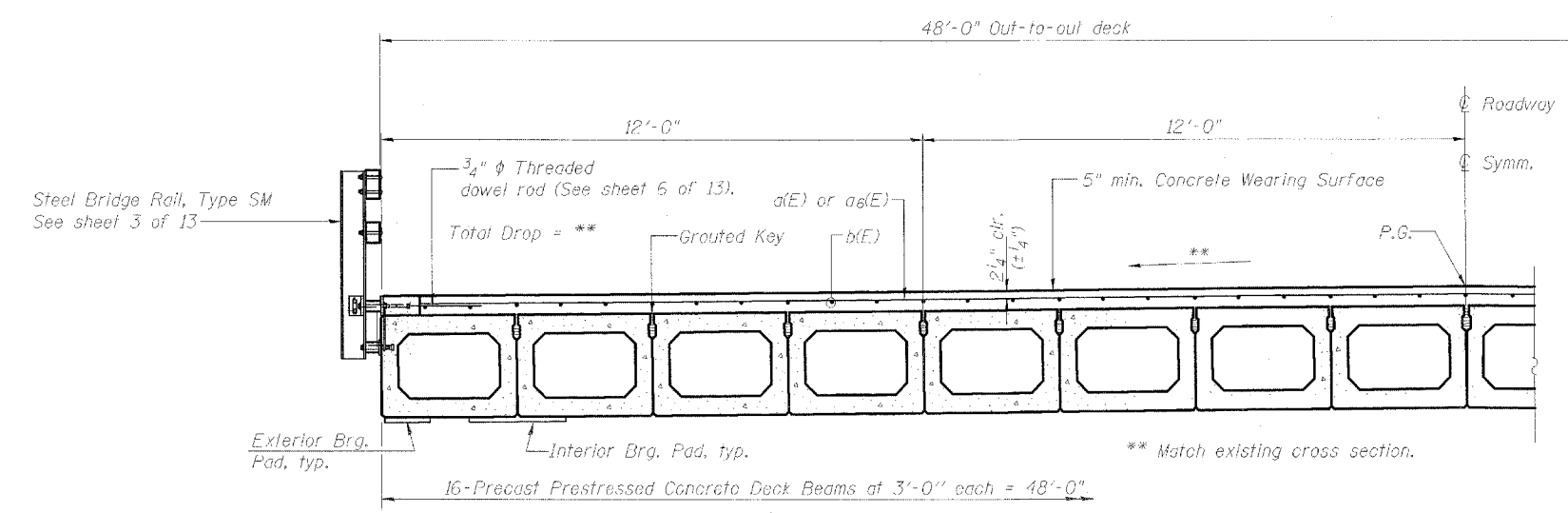
DESIGNED BY: S.L.D. PROJECT NO. 102301
DRAWN BY: MEW DATE: 6/05
CHECKED BY: S.C.J.
APPROVED BY: M.M.
ACTIVITY: DETAILS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 13 SHEETS
FAP 324	26-VBR	DEKALB	39	14	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

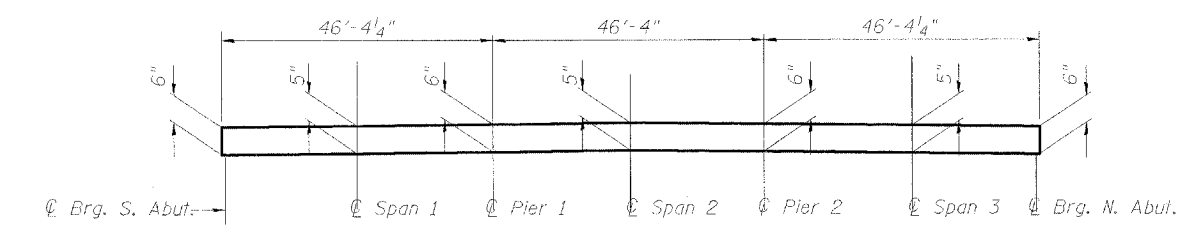
Contract #64A50



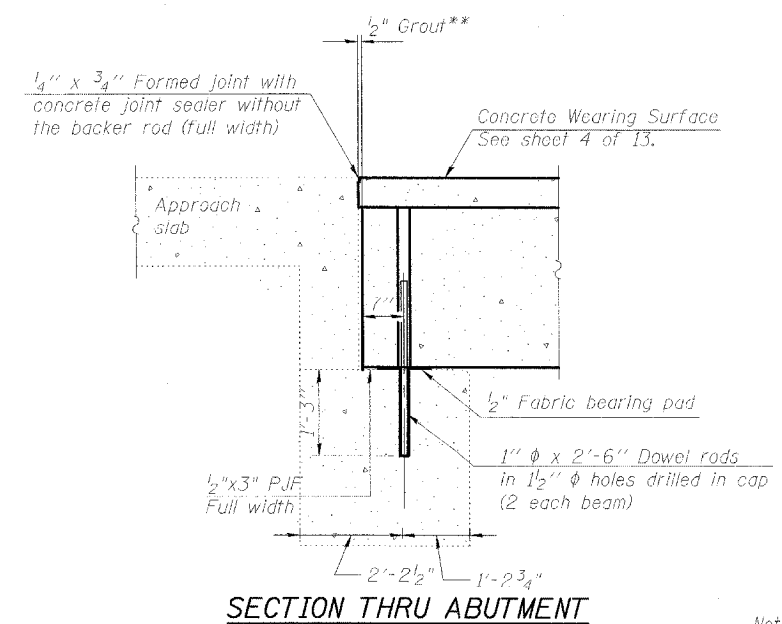
RAIL POST SPACING



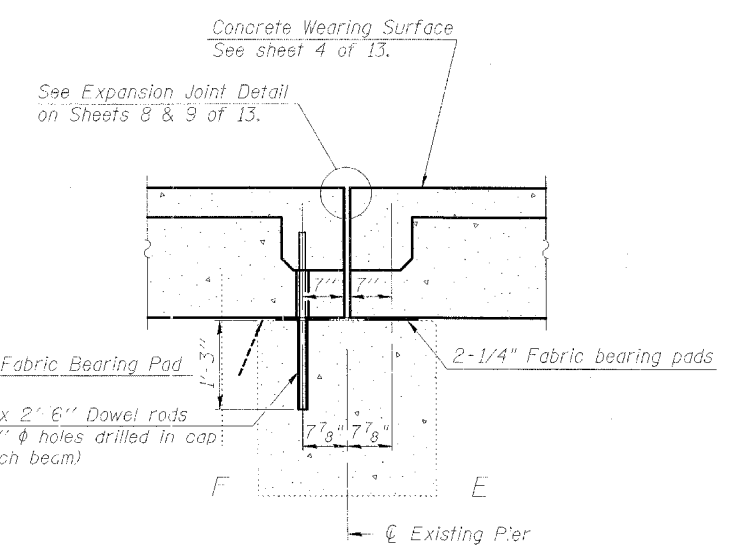
HALF CROSS SECTION
(Looking North)



REINFORCED CONCRETE WEARING SURFACE PROFILE
(Concrete wearing surface along ϕ of Roadway)



SECTION THRU ABUTMENT



SECTION THRU PIER 2

**1/2" Joint shall be filled with non-shrink grout. 1/2" dimension may vary plus or minus to accommodate tolerance in beam lengths.

Notes:
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. All horizontal dimensions are at right angles to beam ends. See sheet 6 of 13 for bearing pad details. See sheet 7 of 13 for Section thru Pier 1.

SUPERSTRUCTURE DETAILS

F.A.P. ROUTE 324 (IL 23)
SECTION 26 VBR-1
DEKALB COUNTY
STATION 1773+30.24
STRUCTURE NO. 019-0005

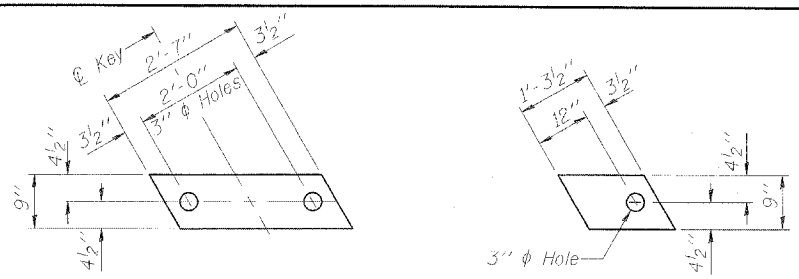
CHAMPAIGN, ILLINOIS
CHICAGO, ILLINOIS
EVANSVILLE, INDIANA
INDIANAPOLIS, INDIANA
KENOSHA, WISCONSIN
SPRING GREEN, WISCONSIN

Clark Dietz

REVISIONS		DRAWING NUMBER
NAME	DATE	
		S-5

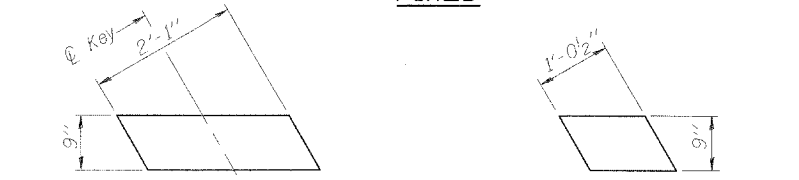
DESIGNED BY: S.L.D. PROJECT NO. 102301
DRAWN BY: MEW DATE: 6/05
CHECKED BY: S.C.J.
APPROVED BY: H.M.
ACTIVITY: DETAILS

Contract #64A50



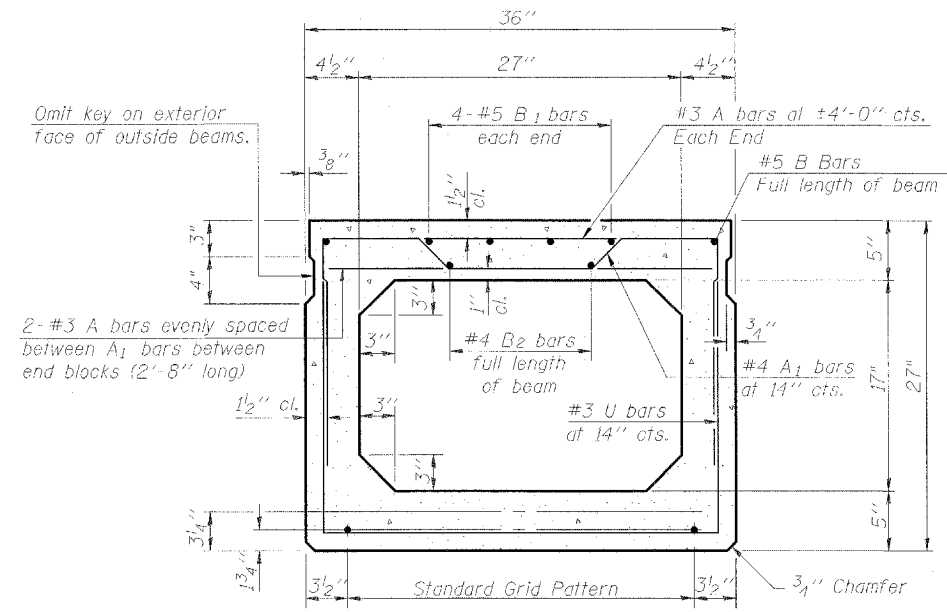
FABRIC BEARING PAD (Interior)
FABRIC BEARING PAD (Exterior)

FIXED

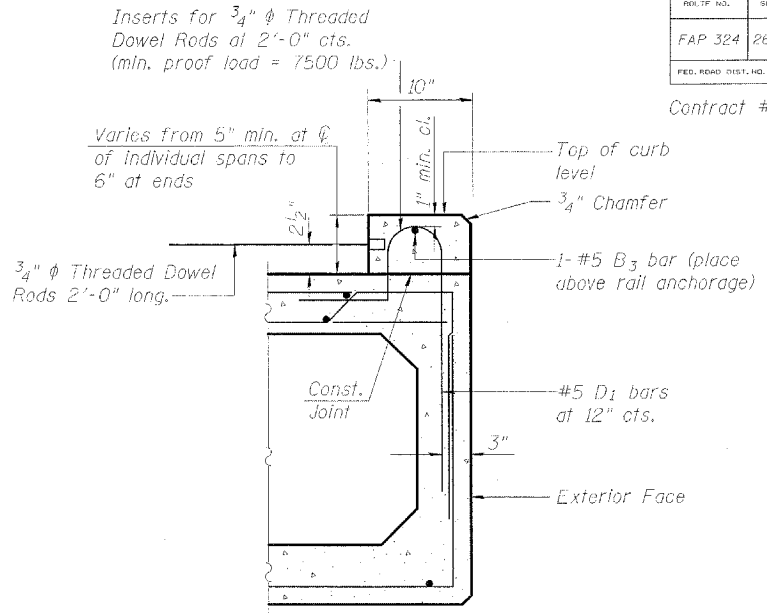


FABRIC BEARING PAD (Interior)
FABRIC BEARING PAD (Exterior)

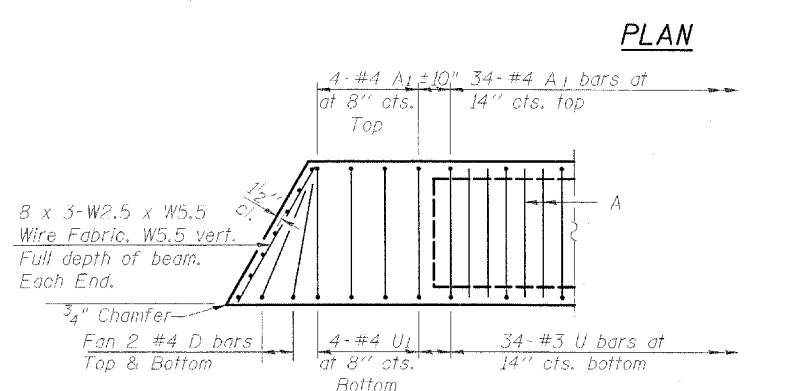
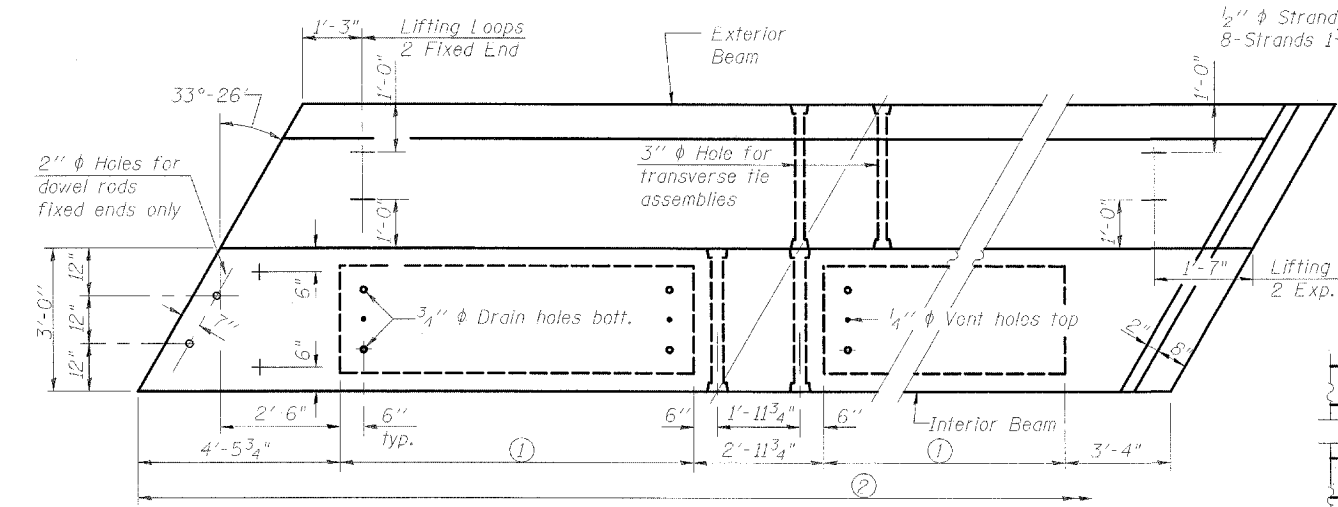
EXPANSION



TYPICAL SECTION

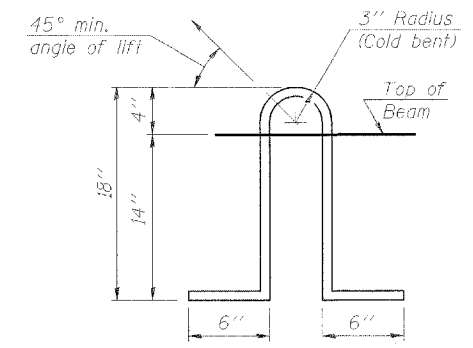


TYPICAL EXTERIOR BEAM SECTION



END PLAN (Fixed End)

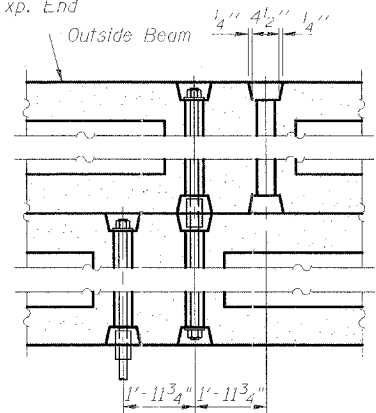
- ① 17'-8 1/4" Span 1
17'-7 7/8" Span 2
17'-8 9/16" Span 3
- ② 46'-2" Span 1
46'-1 1/4" Span 2
46'-2 5/8" Span 3



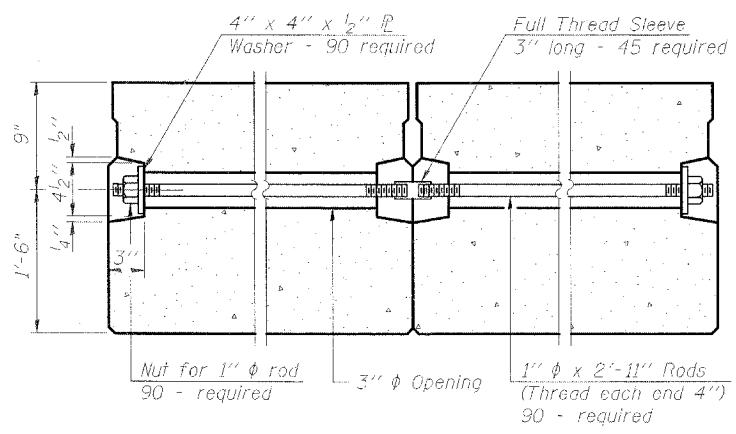
LIFTING LOOP DETAIL

1/2" φ Strands, Each Strand Stressed to 30,900 Lbs.
8-Strands 1 3/4" up, 4-Strands 3/4" up

Note:
Place strands symmetrically about centerline of beam.



TYPICAL TRANSVERSE TIE ASSEMBLY



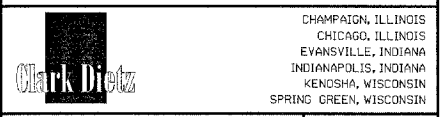
NOTES

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" φ-270 ksi strands, as shown. The 1" φ 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 AASHTO M-31 or M-322 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, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'_{ci}, shall be 4,000 p.s.i.

Bridge rail inserts shall be cast in precast beams and curbs. Curbs shall be cast by the precast prestressed concrete supplier after strands have been released and prior to shipping the beam. The concrete in the curb shall be the same as specified for the deck beams. The curb inserts and threaded dowel rods may be either epoxy coated or galvanized and the cost shall be included with precast prestressed concrete deck beams. See sheet 5 of 13 for location of rail anchors.

SUPERSTRUCTURE DETAILS

F.A.P. ROUTE 324 (IL 23)
SECTION 26 VBR-1
DEKALB COUNTY
STATION 1773+30.24
STRUCTURE NO. 019-0005



REVISIONS		DRAWING NUMBER
NAME	DATE	
		S-6

Contract #64A50

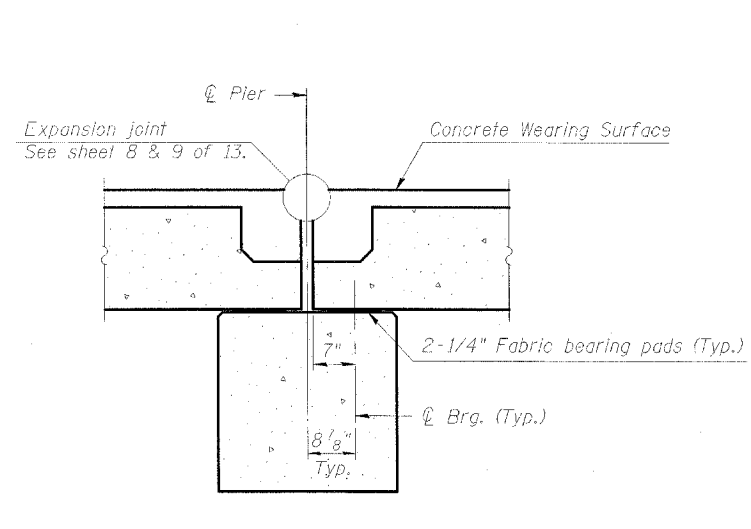
**BILL OF MATERIAL
(ONE BEAM)**

Bar	No.	Size	Length	Shape
A	72	#3	2'-8"	—
A ₁	41	#4	6'-1"	⌒
B	2	#5	45'-11"	—
B ₁	8	#5	9'-3"	—
B ₂	2	#4	45'-11"	—
B ₃	2	#5	45'-11"	—
C	5	#5	3'-0"	↙
D	8	#4	4'-1"	⌒
D ₁	46	#5	3'-4"	⌒
E	3	#5	2'-6"	⌒
E ₁	3	#4	3'-5"	⌒
U	34	#3	6'-3"	⌒
U ₁	7	#4	6'-3"	⌒
U ₂	4	#4	6'-9"	⌒

*Exterior beams only.

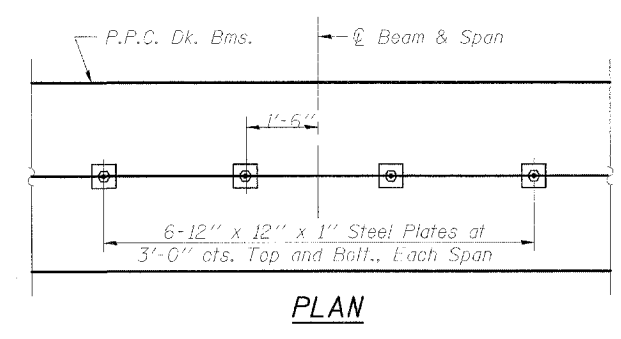
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	6,648

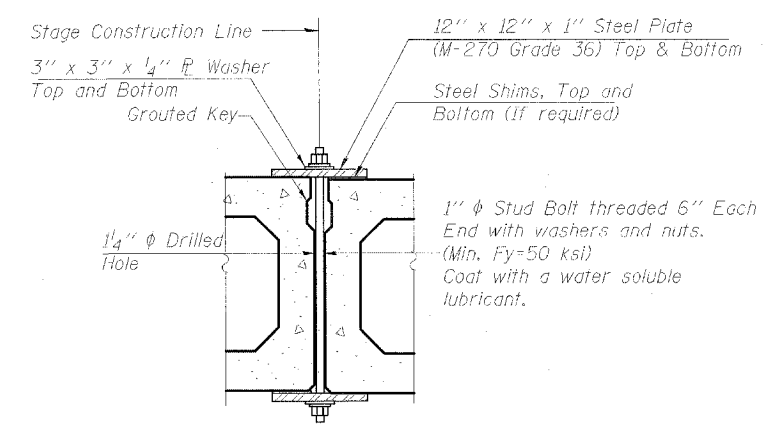


SECTION THRU PIER 1

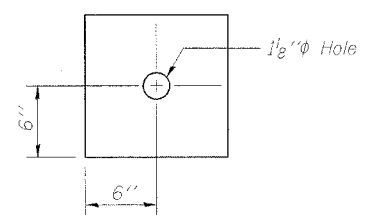
Notes:
 Ends of beams shall be aligned at the expansion joints. Any lineal variation in the beam lengths shall be placed at the fixed joint.
 After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
 Concrete wearing surface (including breakout) to be poured after grouting the shear keys.
 All horizontal dimensions are at right angles to beam ends. See sheet 6 of 13 for bearing pad details.
 Existing Dowel Rods shall be cut off and ground flush with the top of the existing concrete. Cost to be included in the cost of "Removal of Existing Superstructure".



PLAN



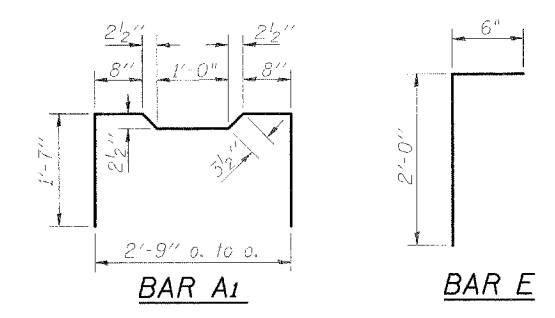
SECTION



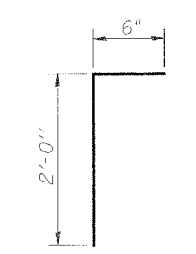
CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

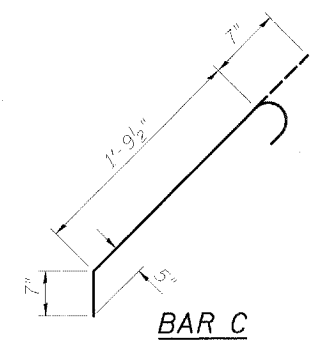
See Special Provisions for Stage Construction of Precast Prestressed Concrete Deck Beams.
 See Stage Construction Details for traffic lanes.



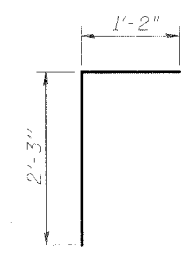
BAR A1



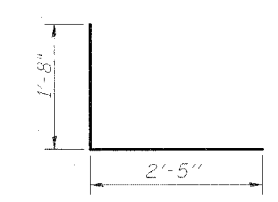
BAR E



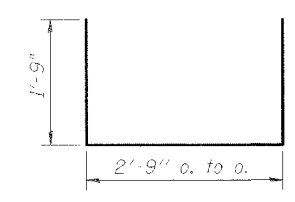
BAR C



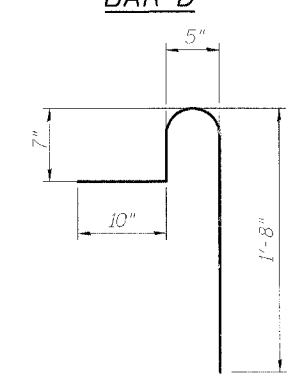
BAR E1



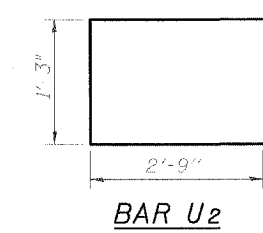
BAR D



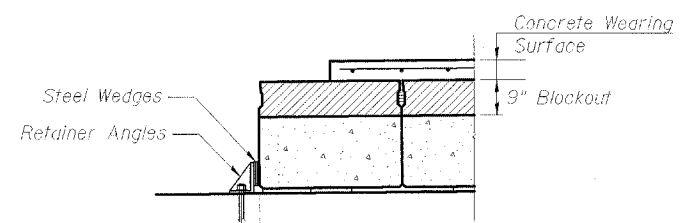
BARS U & U1



BAR D1

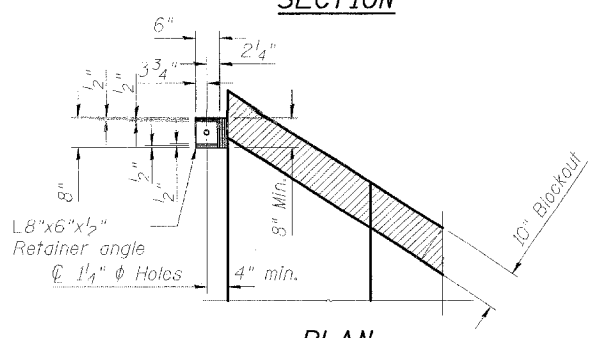


BAR U2



SECTION

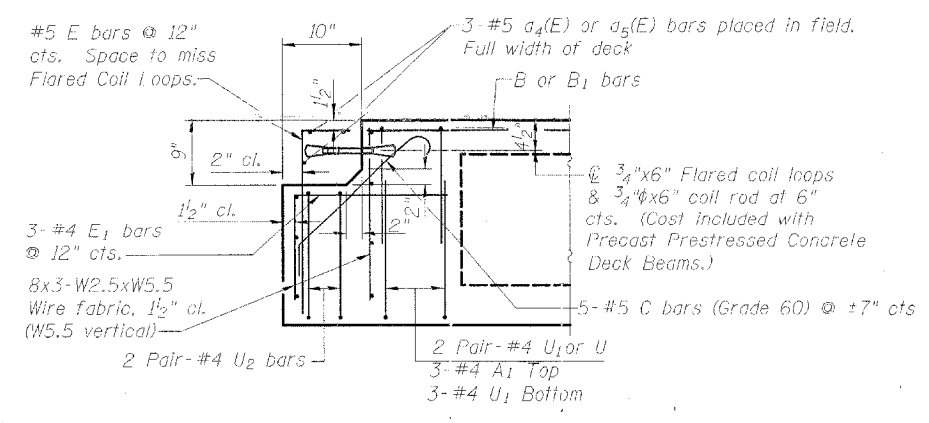
*1" diameter x 12" Galv. anchor bolt with 2 1/2" x 2 1/2" x 5/16" L washer under nut.
 4" Min.



PLAN

SIDE RETAINER AT EXPANSION JOINT

* Anchor bolts may be cast into the masonry or approved threaded rod may be placed in drilled holes and grouted in place. Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams.
 Note: After block-outs are poured and cured the retainer angles shall be removed. Anchor bolts may be left in place.



END OF BEAM (PIER END)

(Dimensions are at Rt. L's)

SUPERSTRUCTURE DETAILS

F.A.P. ROUTE 324 (IL 23)
 SECTION 26 VBR-1
 DEKALB COUNTY
 STATION 1773+30.24
 STRUCTURE NO. 019-0005



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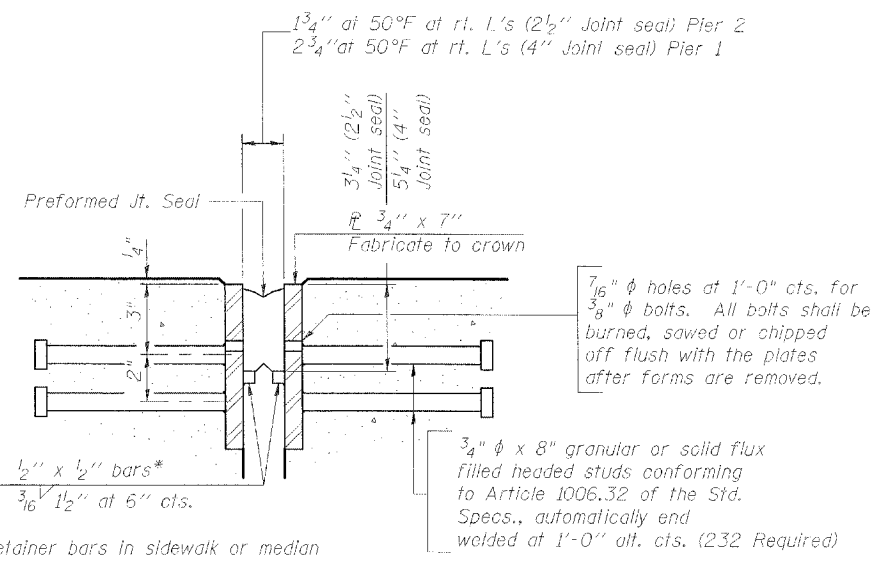
REVISIONS		DRAWING NUMBER
NAME	DATE	
		S-7

Contract #64A50

GENERAL NOTES

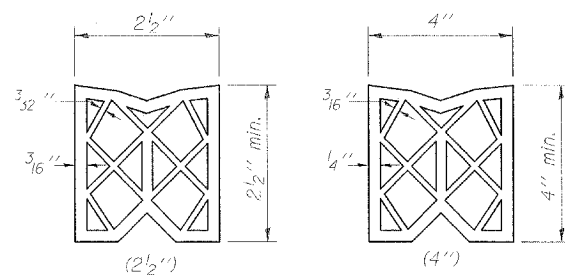
Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be $\frac{3}{16}$ ". Seal space with silicone sealant suitable for structural steel.

Bridge Joint System (Expansion)		
Design Movement	Required Preformed Joint Seal Size	Required Strip Seal Rated movement
1"	2 1/2"	1"
1 5/8"	4"	2"



SECTION THRU EXPANSION JOINT

(2 1/2" and 4" joint seals)



PREFORMED JOINT SEAL

BILL OF MATERIAL

Item	Unit	Total
Bridge Joint System (Expansion), 1"	foot	58
Bridge Joint System (Expansion), 1 5/8"	foot	58

**BRIDGE JOINT SYSTEM (EXPANSION)
(PREFORMED JOINT SEAL)**

F.A.P. ROUTE 324 (IL 23)
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 DEKALB COUNTY
 STATION 1773+30.24
 STRUCTURE NO. 019-0005

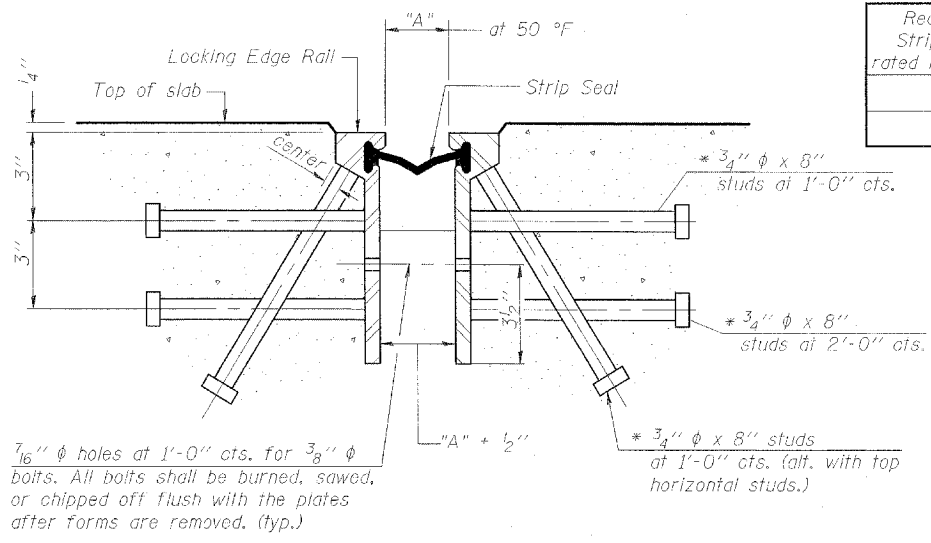


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 KENOSHA, WISCONSIN
 SPRING GREEN, WISCONSIN

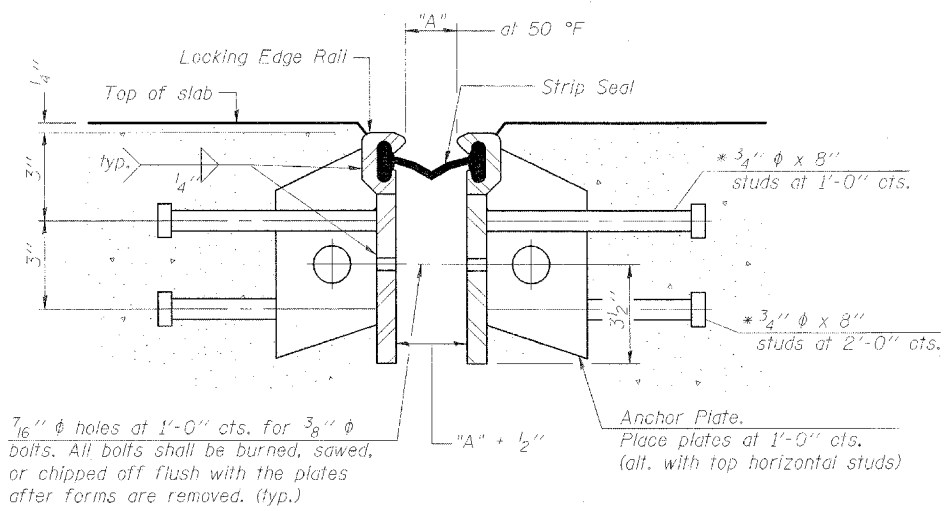
REVISIONS		DRAWING NUMBER
NAME	DATE	
		S-8

DESIGNED BY: S.L.D.	PRIORITY NO. 102301
DRAWN BY: MEW	DATE: 5/05
CHECKED BY: S.C.J.	
APPROVED BY: M.H.	
ACTIVITY: DETAILS	

Contract #64A50



Required Strip Seal rated movement	"A"	Location
1"	1 1/8"	Pier 2
2"	1 3/4"	Pier 1

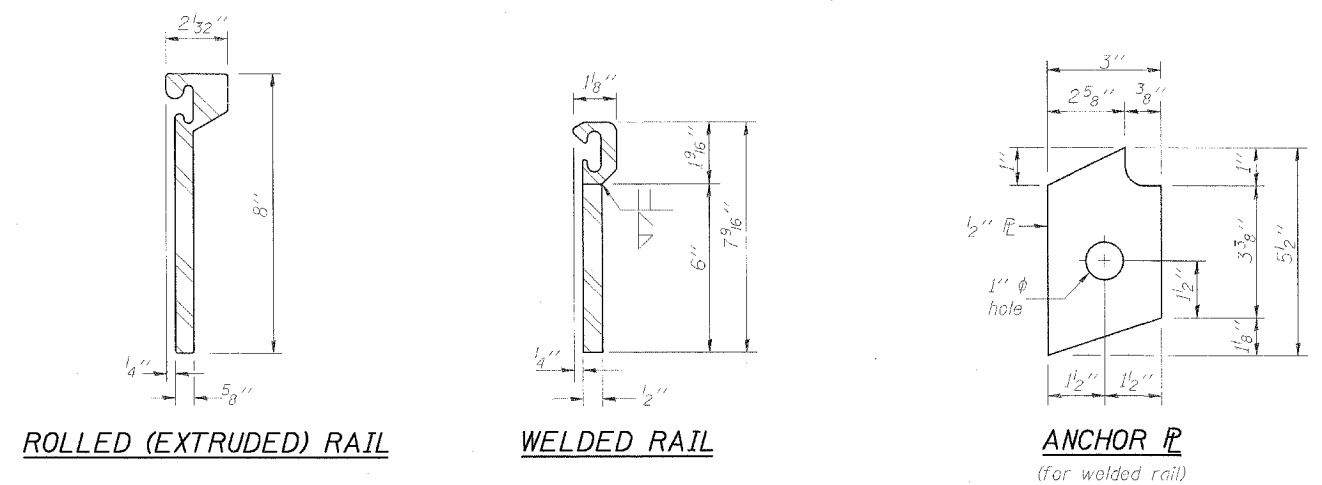


GENERAL NOTES

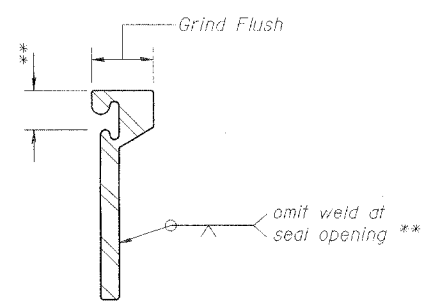
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
 The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
 Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
 The manufacturer's recommended installation methods shall be followed.
 The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

SECTION THRU ROLLED RAIL EXP. JOINT
(576 Studs Required)

SECTION THRU WELDED RAIL EXP. JOINT
(344 Studs Required)
(232 Anchor Plates Required)



LOCKING EDGE RAILS



LOCKING EDGE RAIL SPLICE
The inside of the locking edge rail groove shall be free of weld residue.

**BRIDGE JOINT SYSTEM (EXPANSION)
(ALTERNATE-STRIP SEAL)**

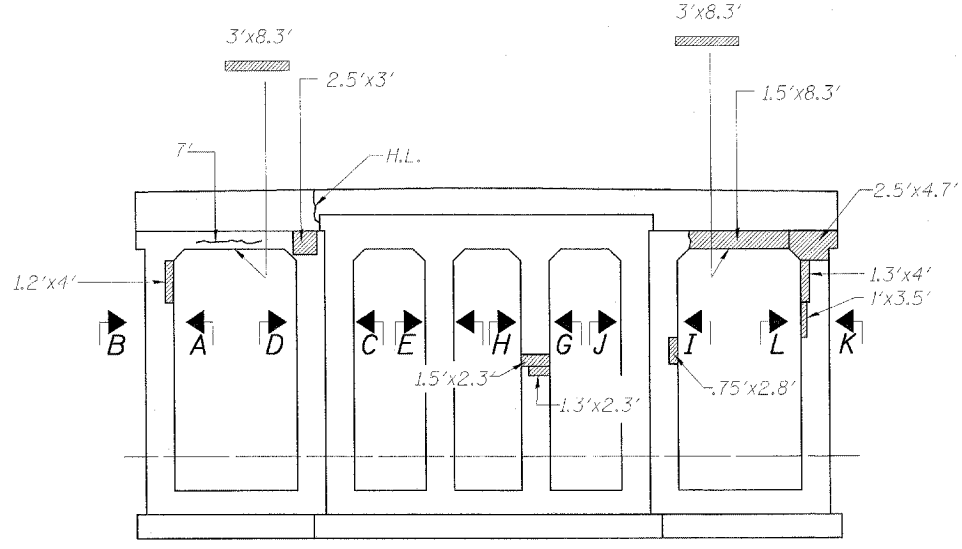
F.A.P. ROUTE 324 (IL 23)
SECTION 26 VBR-1
DEKALB COUNTY
STATION 1773+30.24
STRUCTURE NO. 019-0005

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SPRING GREEN, WISCONSIN

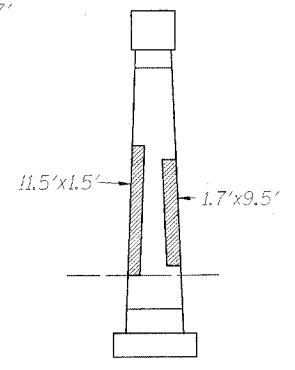
REVISIONS		DATE	DRAWING NUMBER
NAME			
			S-9

E:\Bridge-Joint-System.dgn 8/20/2005 9:35:30 AM

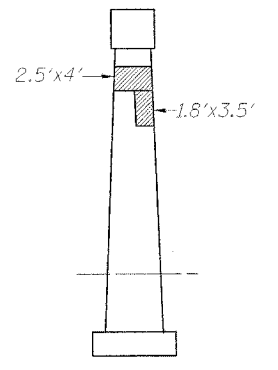
Contract #64A50



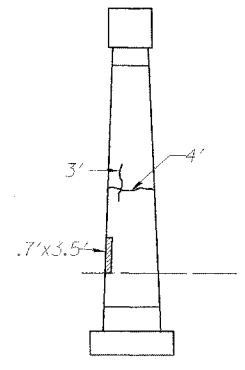
PIER 1-NORTH FACE



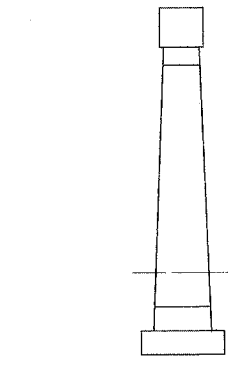
SECTION A



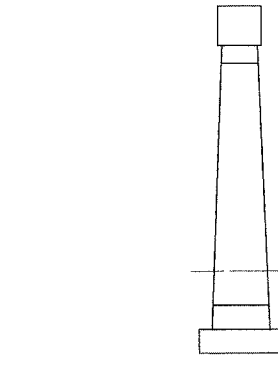
SECTION B



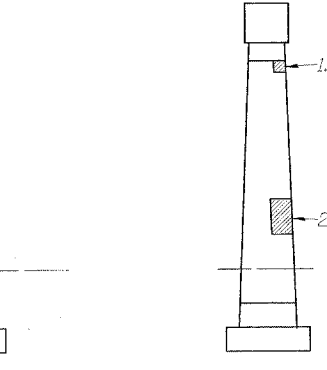
SECTION C



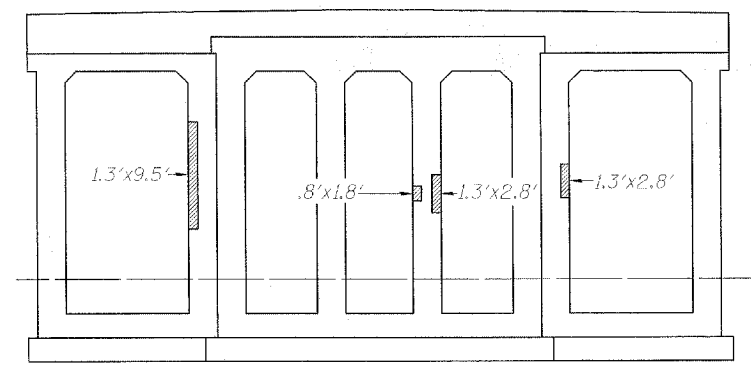
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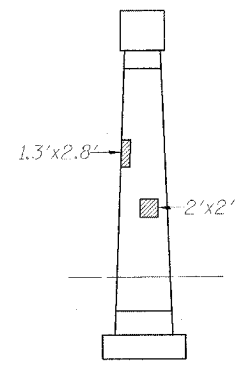
SECTION E



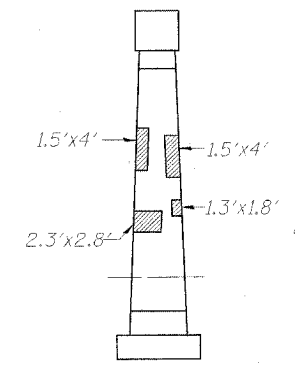
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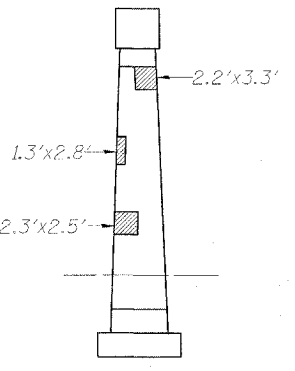
PIER 1-SOUTH FACE



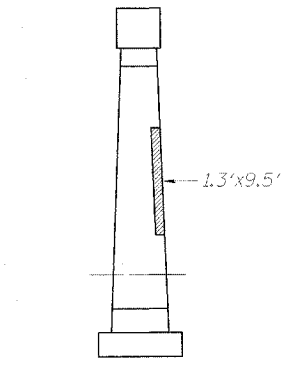
SECTION G



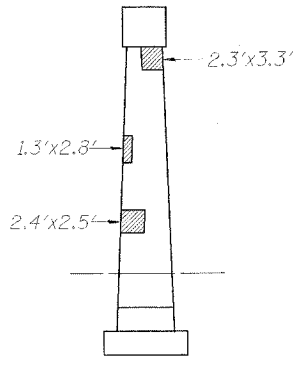
SECTION H



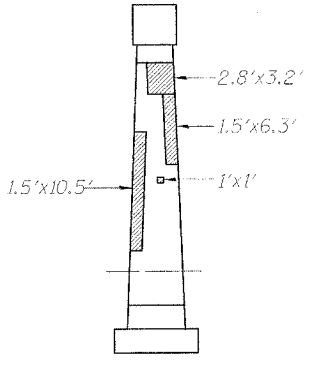
SECTION I



SECTION J



SECTION K



SECTION L

LEGEND

- Formed Concrete Repair
Depth equal to or less than 5"
- Epoxy Crack Sealing
- Hairline Crack - Not to be sealed

Note: Crack widths are $\frac{1}{8}'' \pm \frac{1}{16}''$ unless otherwise noted.

BILL OF MATERIAL - PIER 1

ITEM	UNIT	QUANTITY
Epoxy Crack Sealing	Foot	14.0
Formed Concrete Repair (Depth equal to or less than 5")	Sq Ft	303

PIER 1 REPAIRS

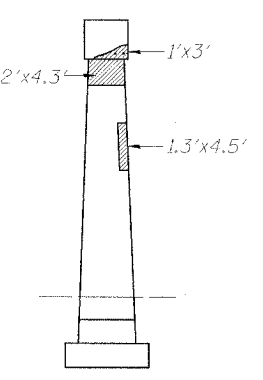
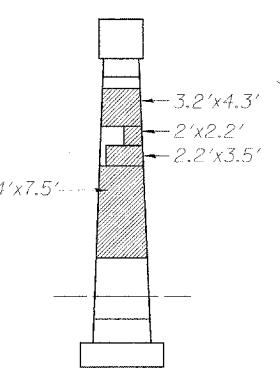
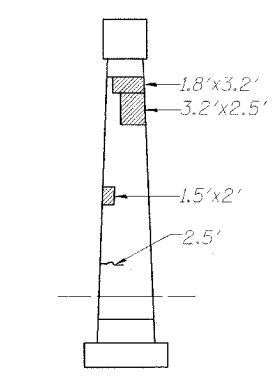
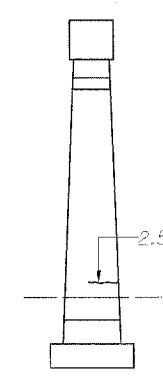
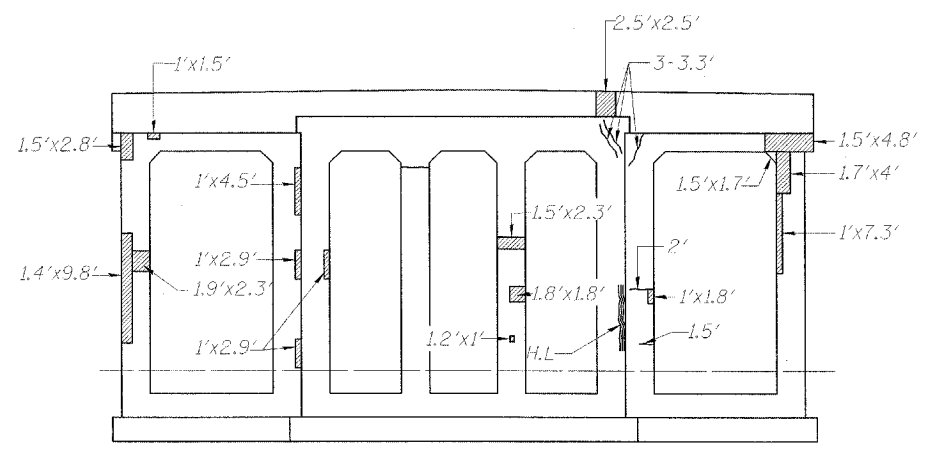
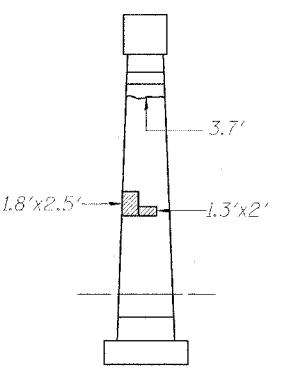
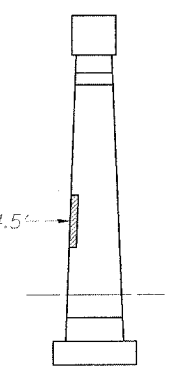
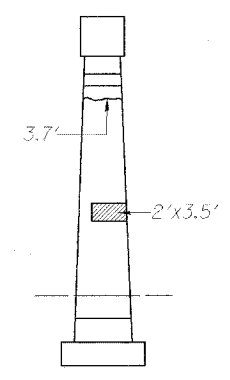
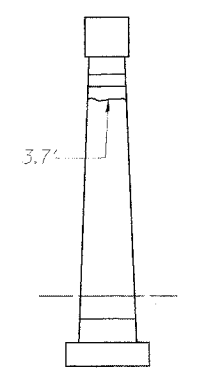
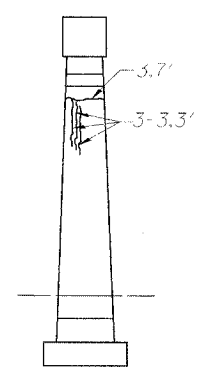
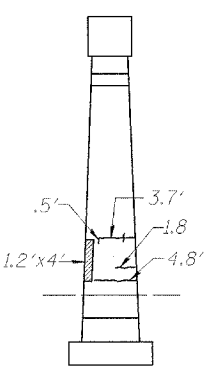
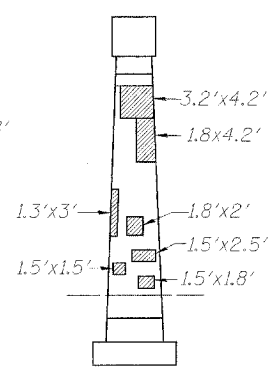
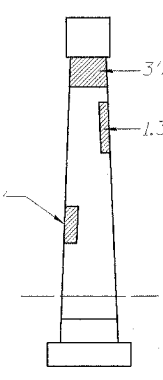
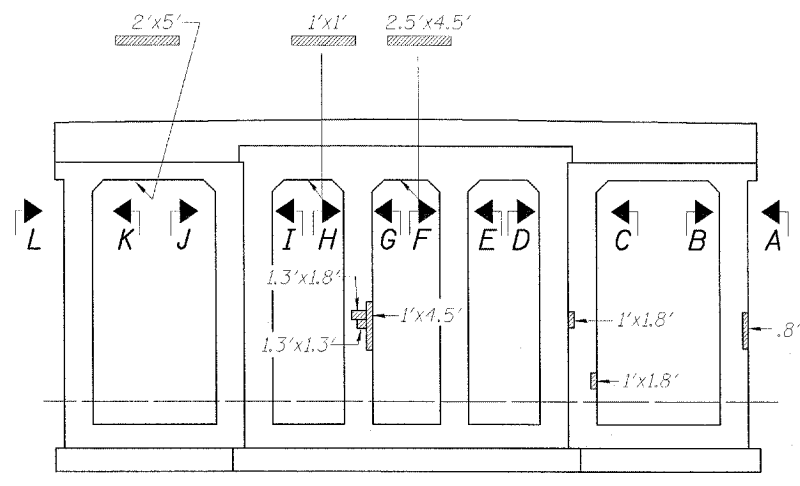
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SECTION 26 VBR-1
DEKALB COUNTY
STATION 1773+30.24
STRUCTURE NO. 019-0005

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Contract #64A50



LEGEND

- Formed Concrete Repair
Depth equal to or less than 5"
- Epoxy Crack Sealing
- Hairline Crack - Not to be sealed

Note: Crack widths are $\frac{1}{8}$ " \pm $\frac{1}{16}$ " unless otherwise noted.

BILL OF MATERIAL - PIER 2

ITEM	UNIT	QUANTITY
Epoxy Crack Sealing	Foot	53.6
Formed Concrete Repair (Depth equal to or less than 5")	Sq Ft	288

PIER 2 REPAIRS

F.A.P. ROUTE 324 (IL 23)
SECTION 26 VBR-1
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STATION 1773+30.24
STRUCTURE NO. 019-0005

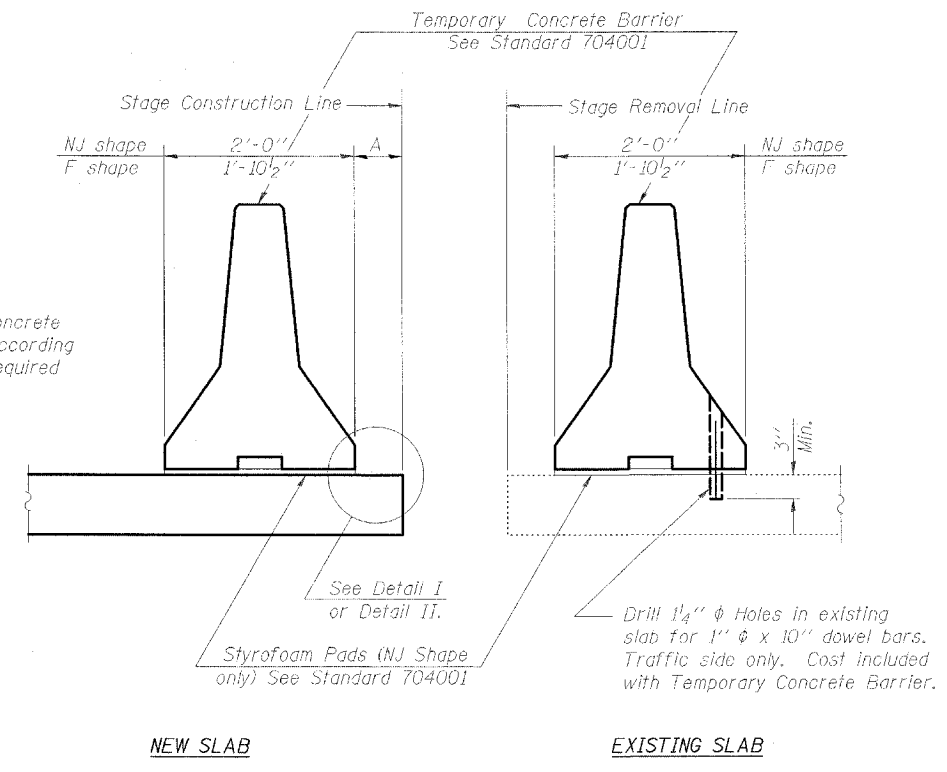
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12
FAP 324	26-VBR	DEKALB	39	21	13 SHEETS
FED. HIGH. DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #64A50

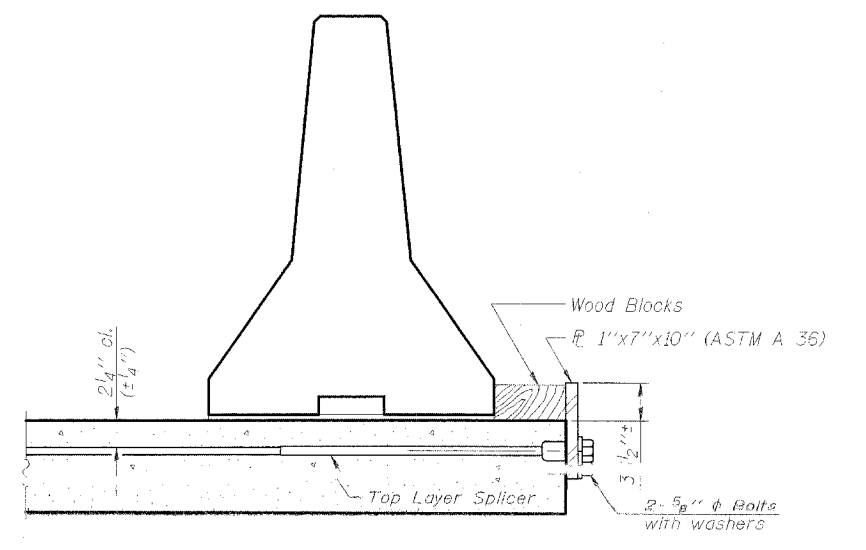


When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NOTES

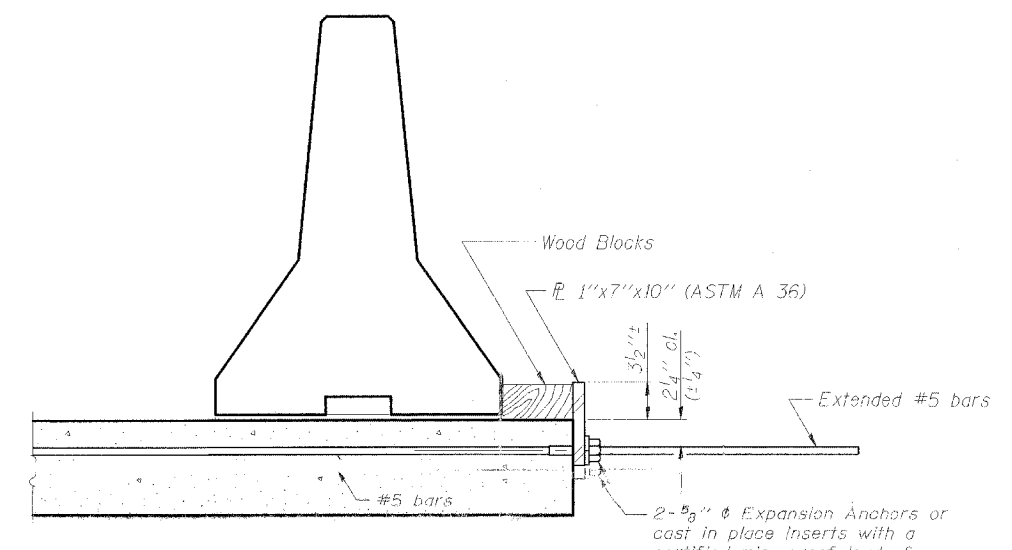
- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2- $\frac{5}{8}$ " ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
 - Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab with 2- $\frac{5}{8}$ " ϕ Expansion Anchors or cast in place Inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier.

SECTIONS THRU SLAB



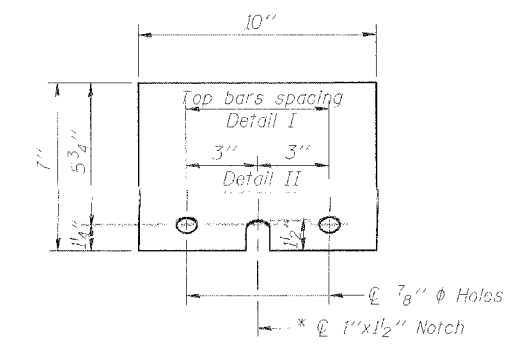
DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



1"x7"x10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 F.A.P. ROUTE 324 (IL 23)
 SECTION 26 VBR-1
 DEKALB COUNTY
 STATION 1773+30.24
 STRUCTURE NO. 019-0005

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NAME			
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Contract #64A50

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

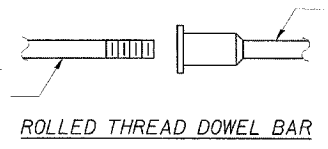
- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

The diameter of this part is equal or larger than the diameter of bar spliced.



ROLLED THREAD DOWEL BAR



** ONE PIECE

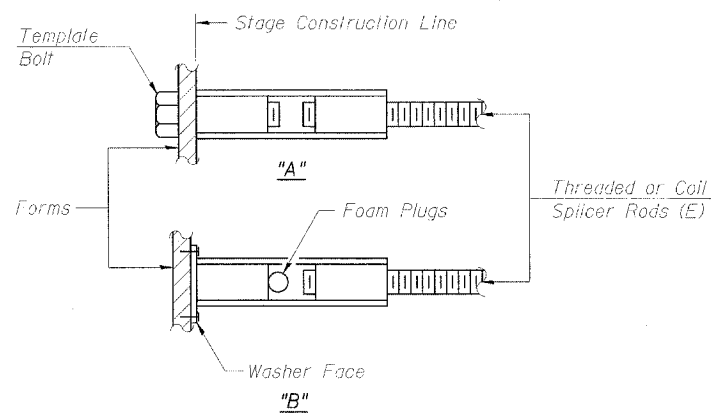
Wire Connector



WELDED SECTIONS

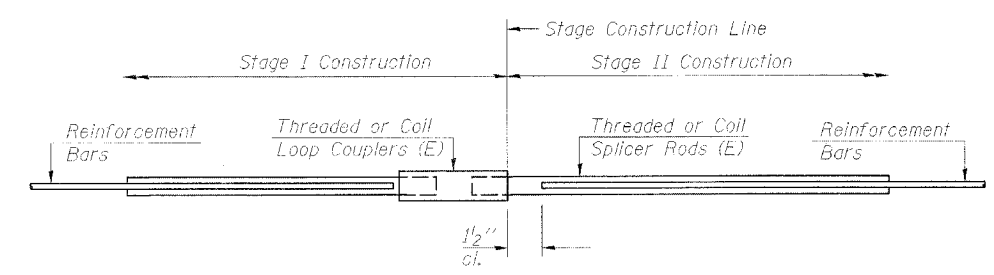
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD

Bar Size	No. Assemblies Required	Location
4	137	Overlay
5	12	Overlay

BAR SPLICER ASSEMBLY DETAILS

F.A.P. ROUTE 324 (IL 23)
 SECTION 26 VBR-1
 DEKALB COUNTY
 STATION 1773+30.24
 STRUCTURE NO. 019-0005

CHAMPAIGN, ILLINOIS
 CHICAGO, ILLINOIS
 EVANSVILLE, INDIANA
 INDIANAPOLIS, INDIANA
 KENOSHA, WISCONSIN
 SPRING GREEN, WISCONSIN

Clark Dietz

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY: S.L.D. PROJECT NO.: 102301
 DRAWN BY: M.W. DATE: 6/85
 CHECKED BY: S.C.J.
 APPROVED BY: H.M.
 ACTIVITY: DETAILS

DRAWING NUMBER
S-13

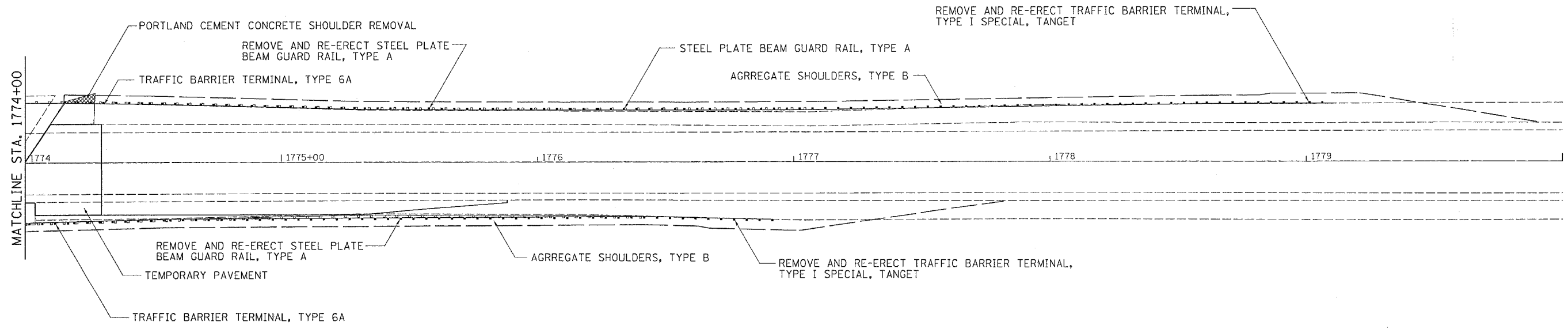
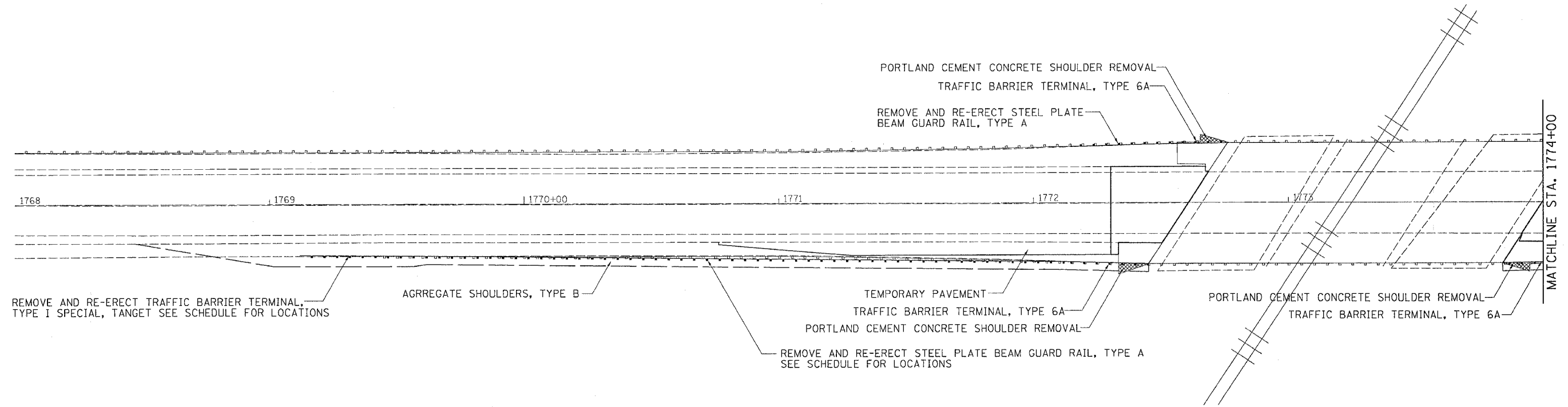
REVISIONS

NAME	DATE

PLAN SHEETS

CONTRACT NO. 64450

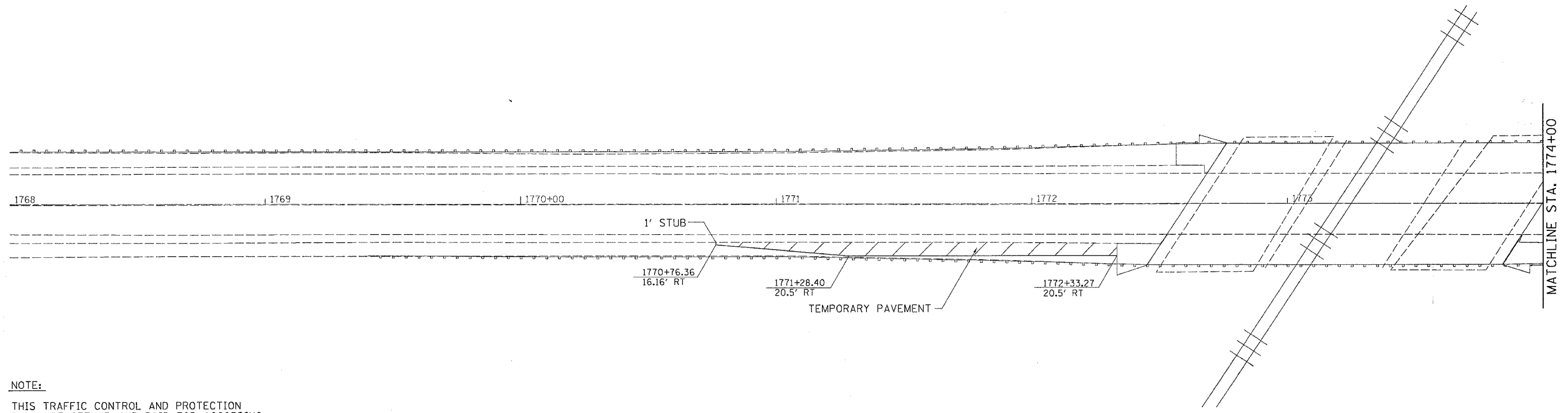
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



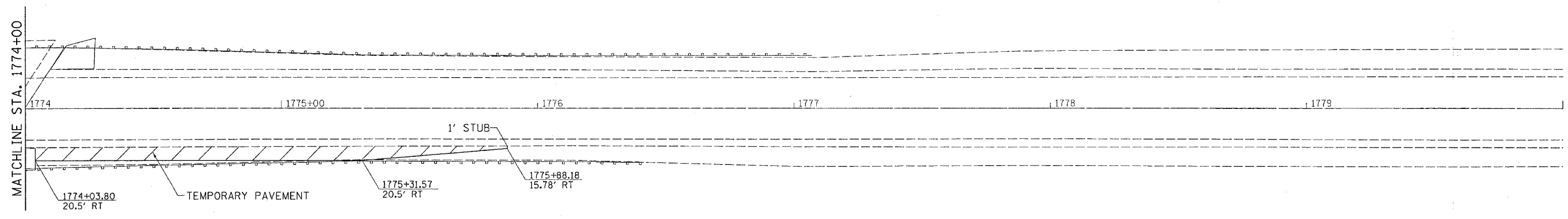
PLOT DATE = Tue Aug 30 14:03:10 2005
 FILE NAME = c:\p\projects\2004\26VBR-1\23.dgn
 PLOT SCALE = 20.0000 / IN.
 USER NAME = meg111

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE 1



NOTE:
THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701326

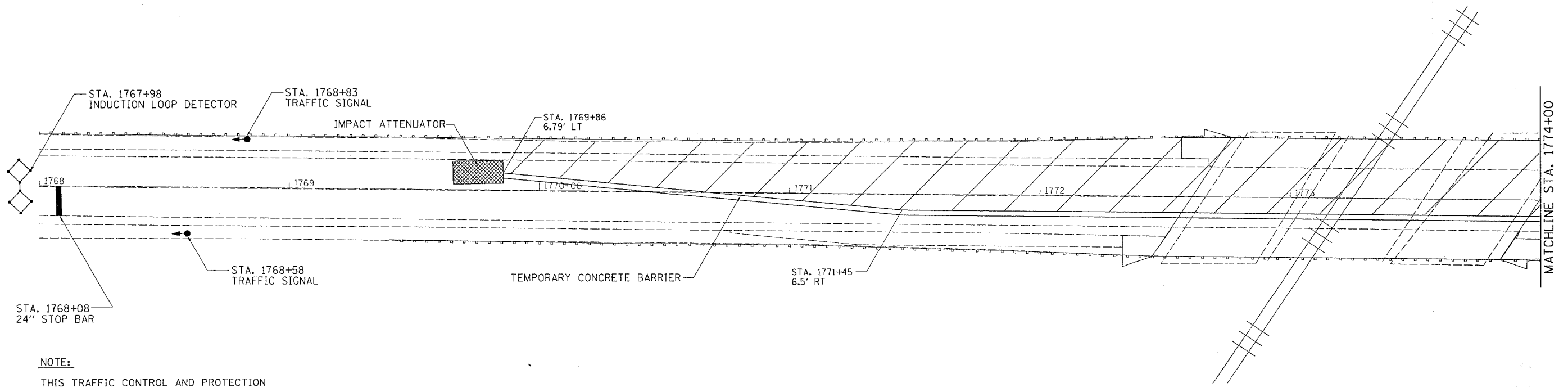


NOTE:
THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701326

PLOT DATE = Tue Aug 20 14:03:06 2008
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USER NAME = megilj

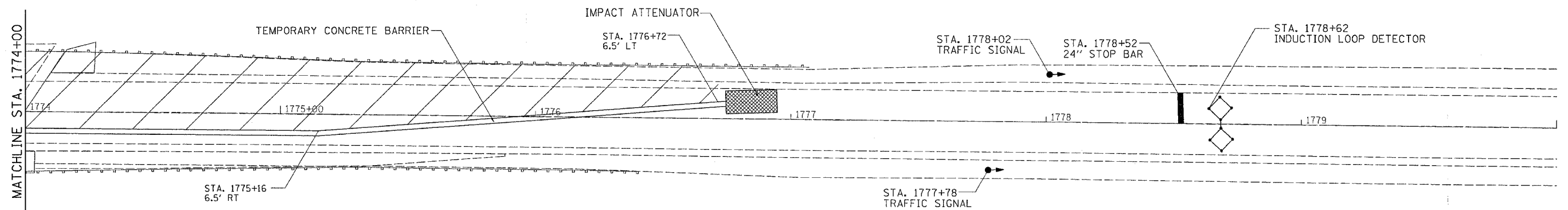
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE 2



NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321



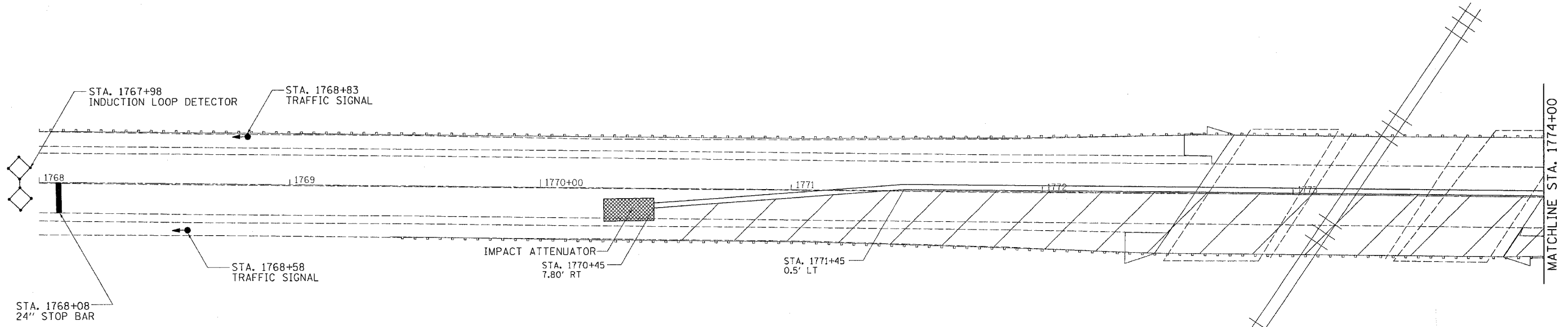
NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

PLOT DATE = Tue Aug 30 14:03:36 2005
FILE NAME = c:\projects\266465\480485.dgn
PLOT SCALE = 26.6900 / IN.
USER NAME = mg11j

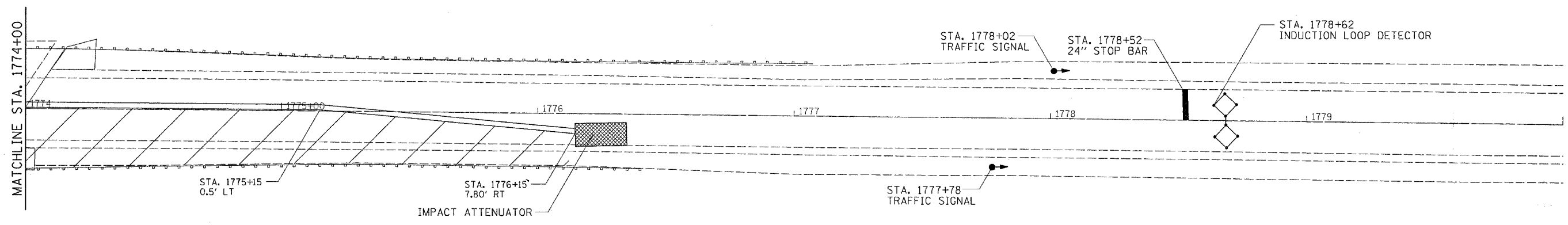
STAGE 3

CONTRACT NO. 64450				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321



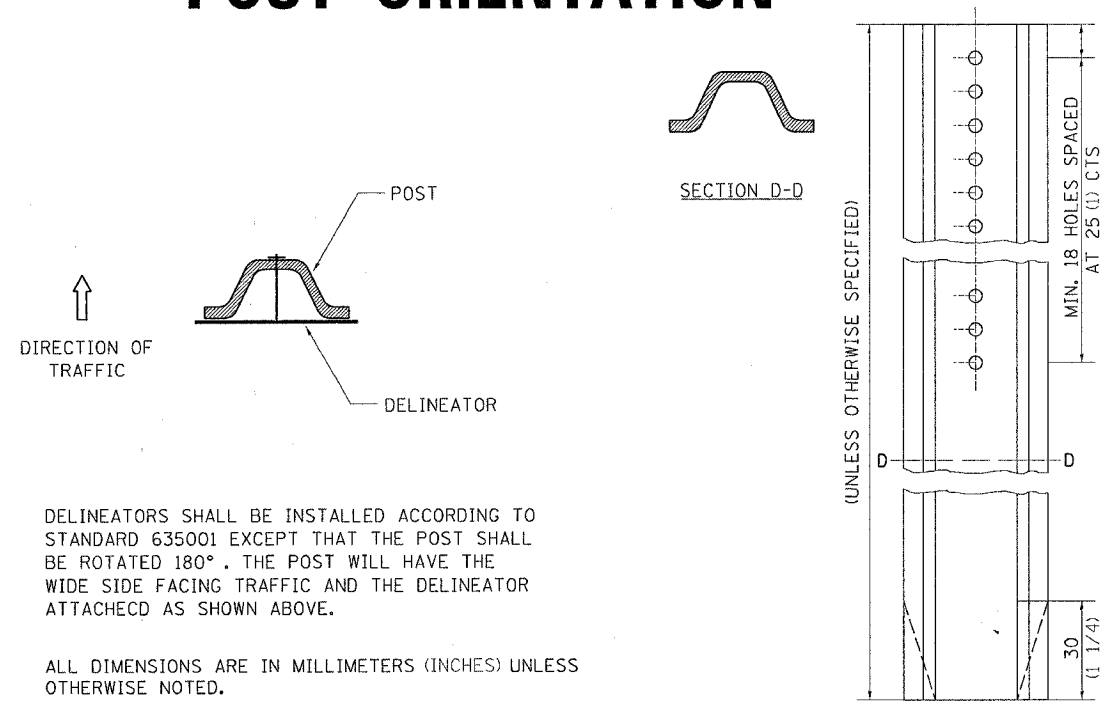
NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

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 USER NAME = mmj111

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

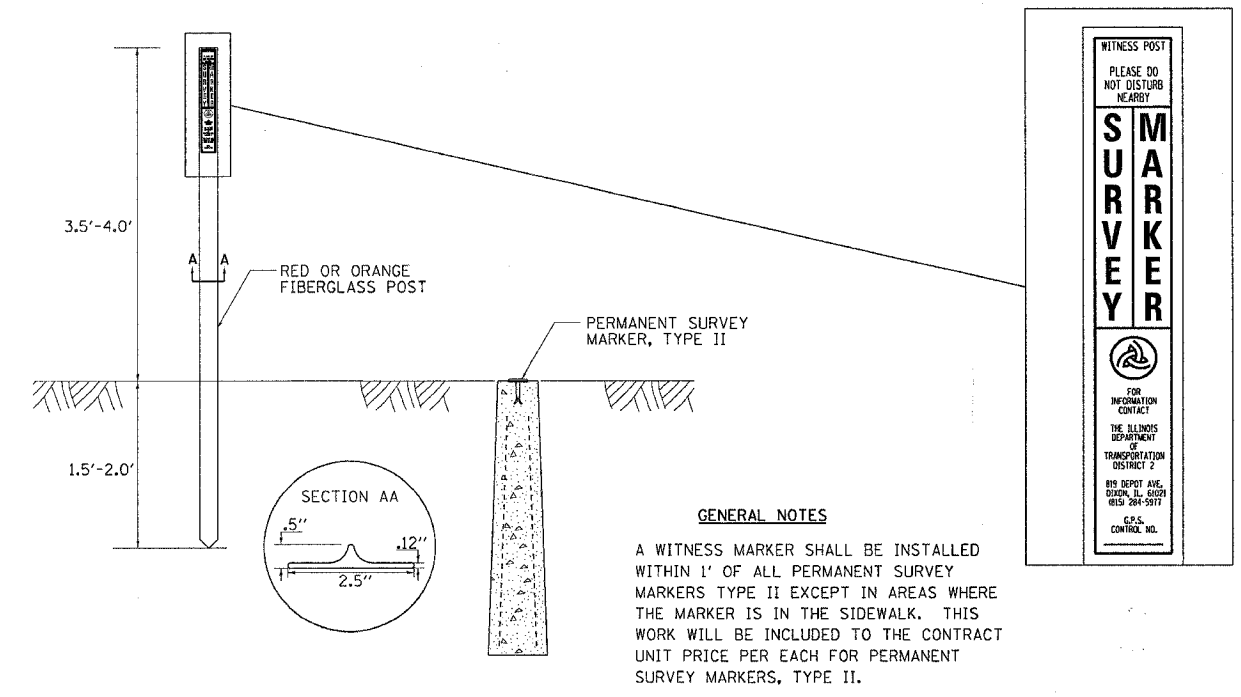
DELINEATOR AND POST ORIENTATION



DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

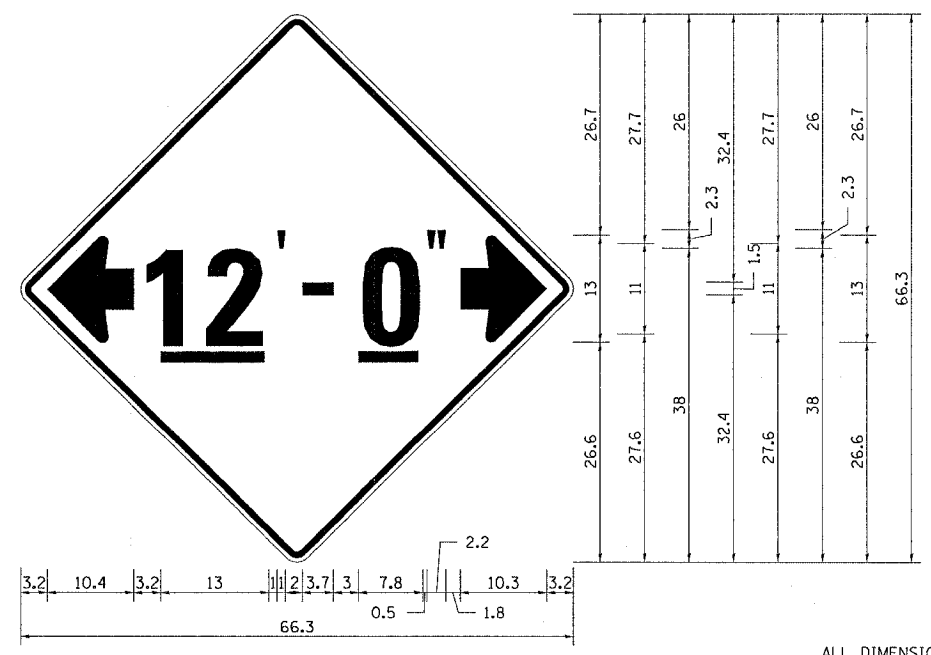
WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE II



WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE II 38.4

REVISED 1-31-00

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°

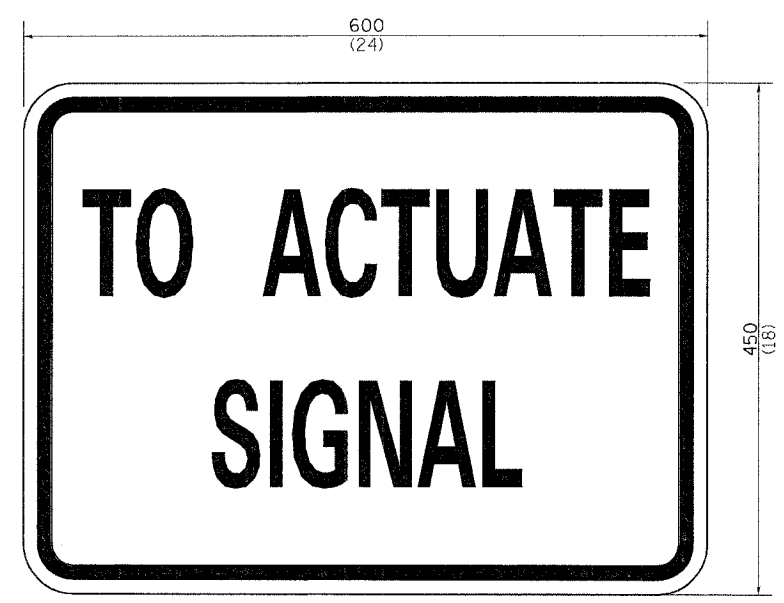
 All work to furnish and install these
 signs shall be included in the cost of
 the Traffic Control Standards and
 shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) 39.4

REVISED 6-29-05

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 450(18)
 100(4) CAPITAL LETTERS - BLACK
 13 (1/2) BORDER - BLACK
 WHITE REFLECTIVE - TYPE B
 ENGINEERING GRADE 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.

STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

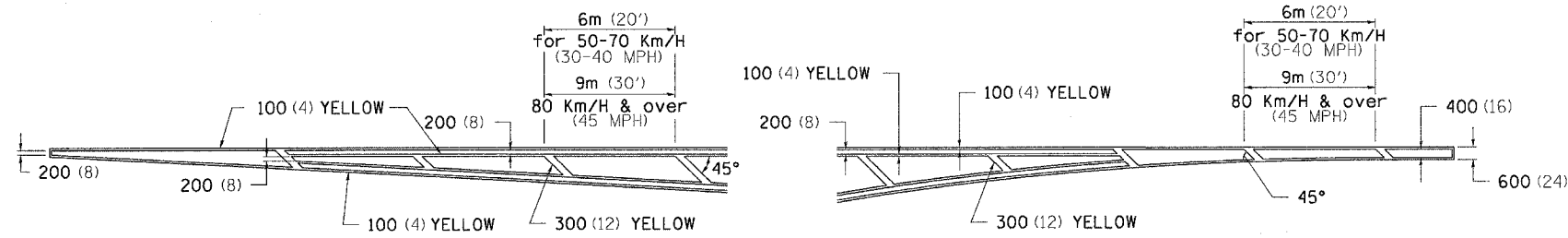
REVISED 8-7-90

PLOT DATE = Tue Aug 30 14:02:48 2005
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 REFERENCE = REF#

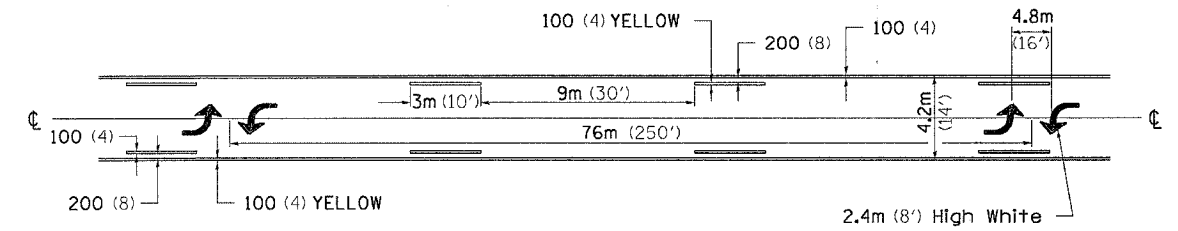
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

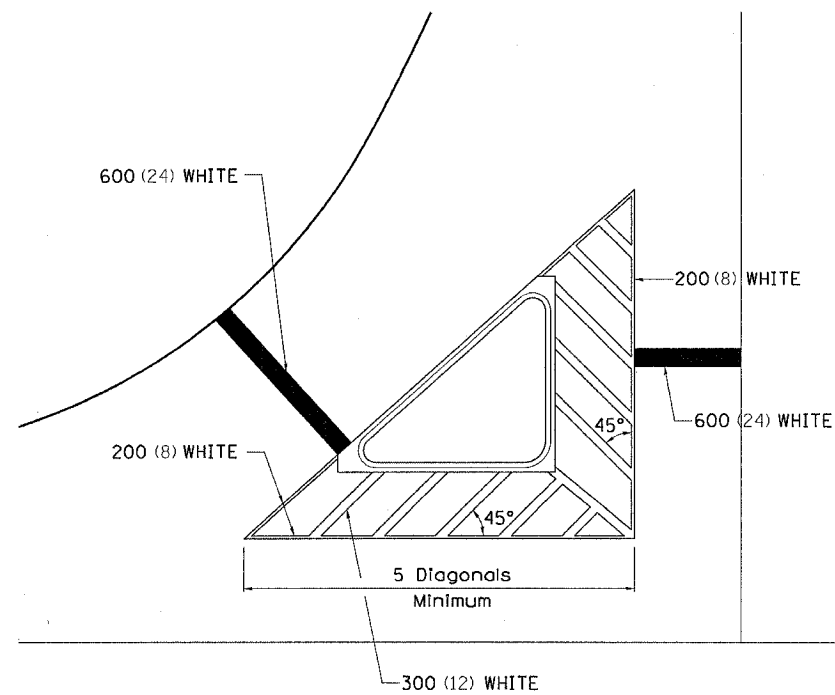
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



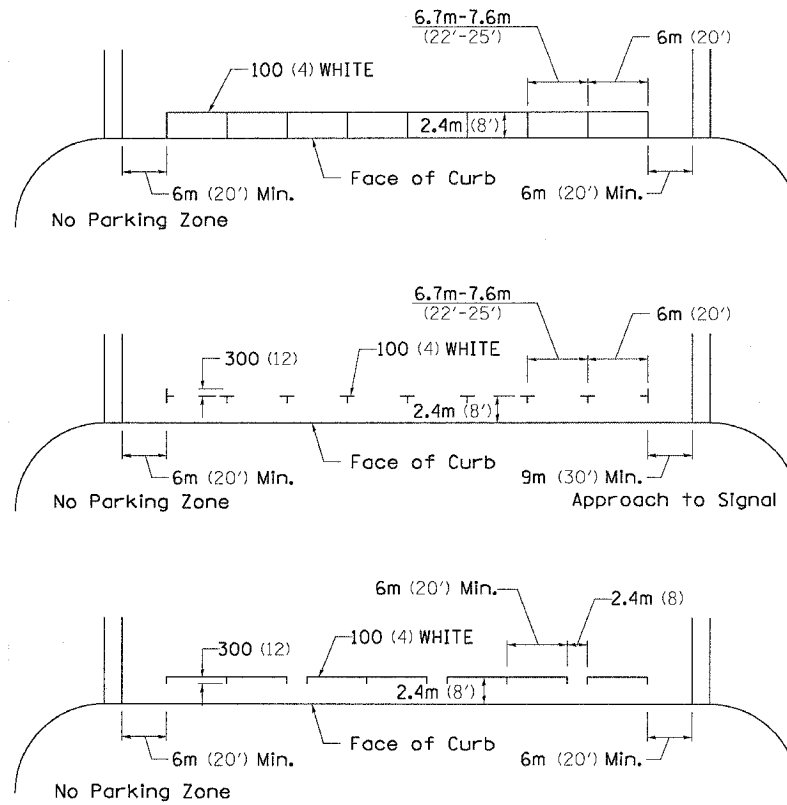
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



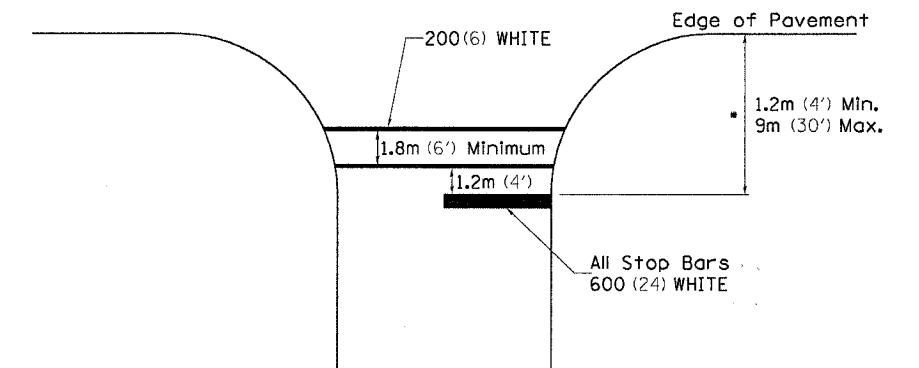
TYPICAL PARKING SPACING



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

STANDARD CROSSWALK MARKING

See Schedules for Locations



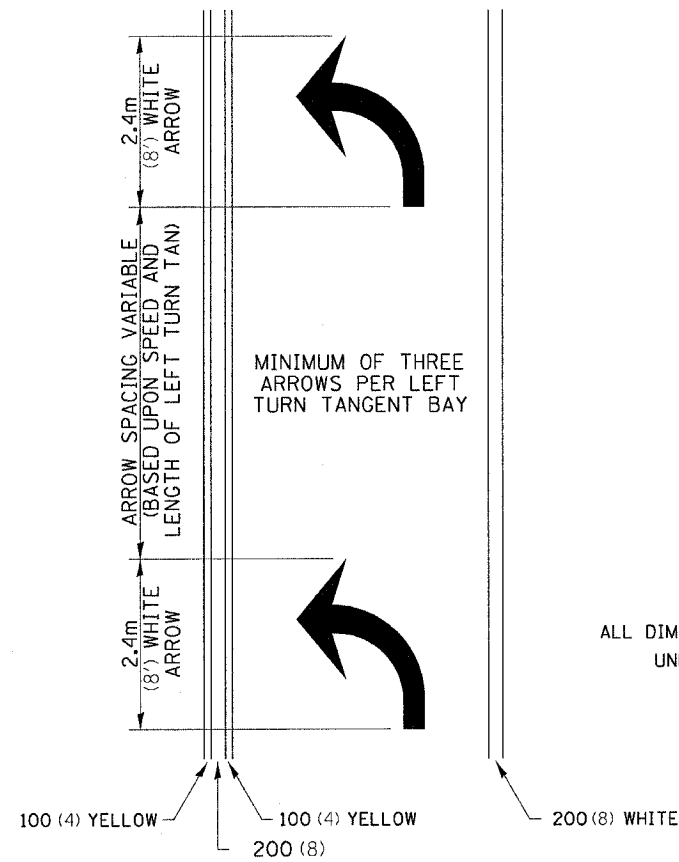
• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

PLOT DATE = Tue Aug 30 14:22:48 2005
 FILE NAME = c:\p\o\mets\p200405\20040528\20040528.dgn
 PLOT SCALE = 50.0000 / 1 IN.
 REFERENCE = REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

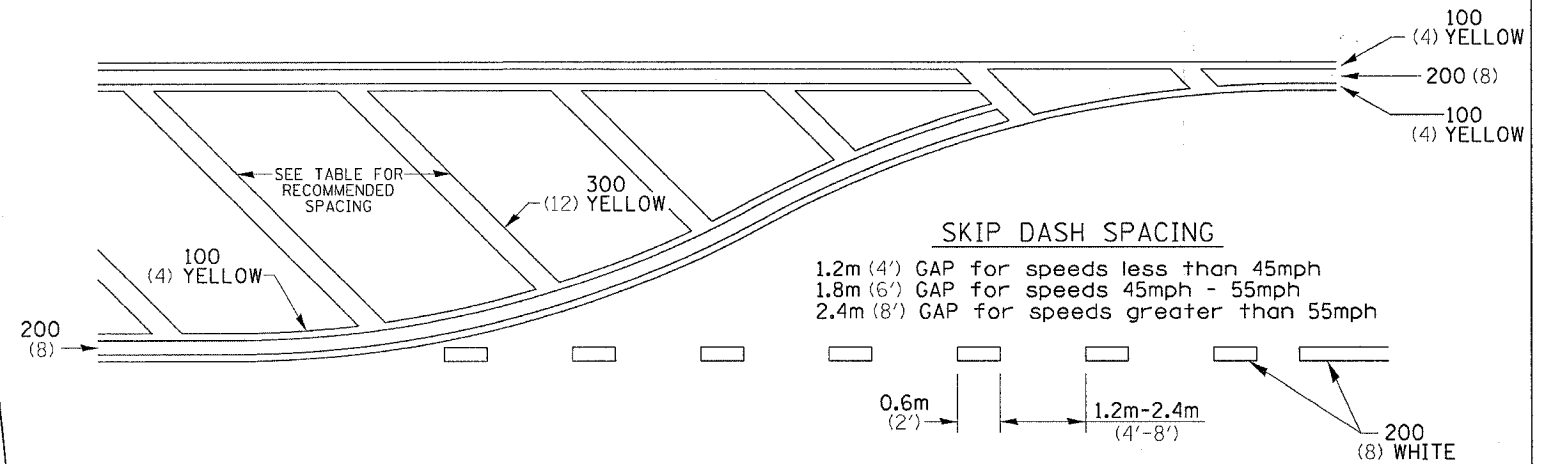
ARROW LAYOUT



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

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

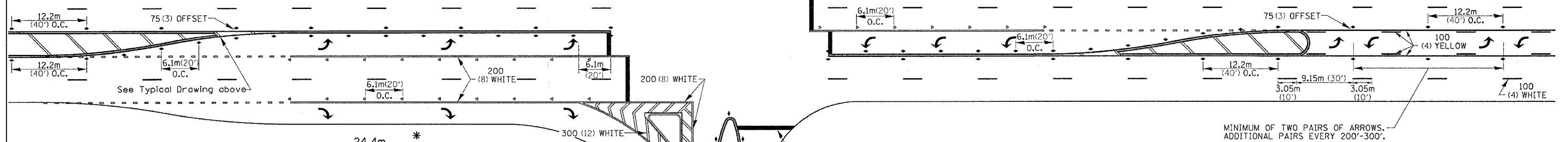
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.



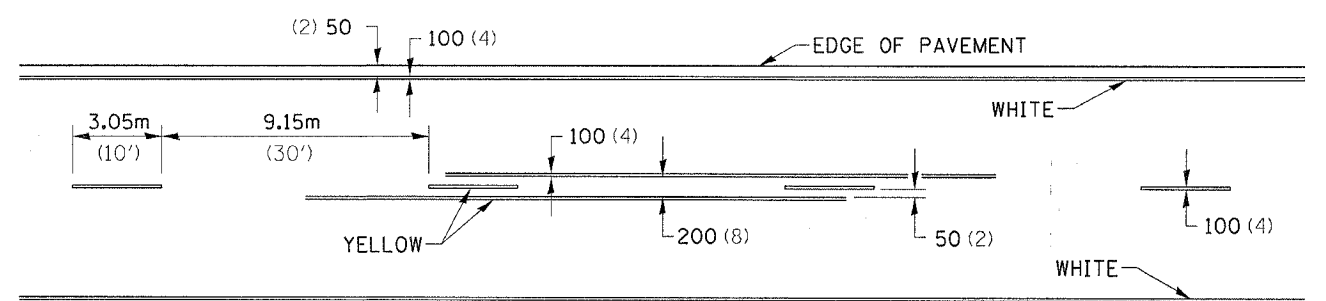
SYMBOLS

See Typical Drawing above

- 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

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES

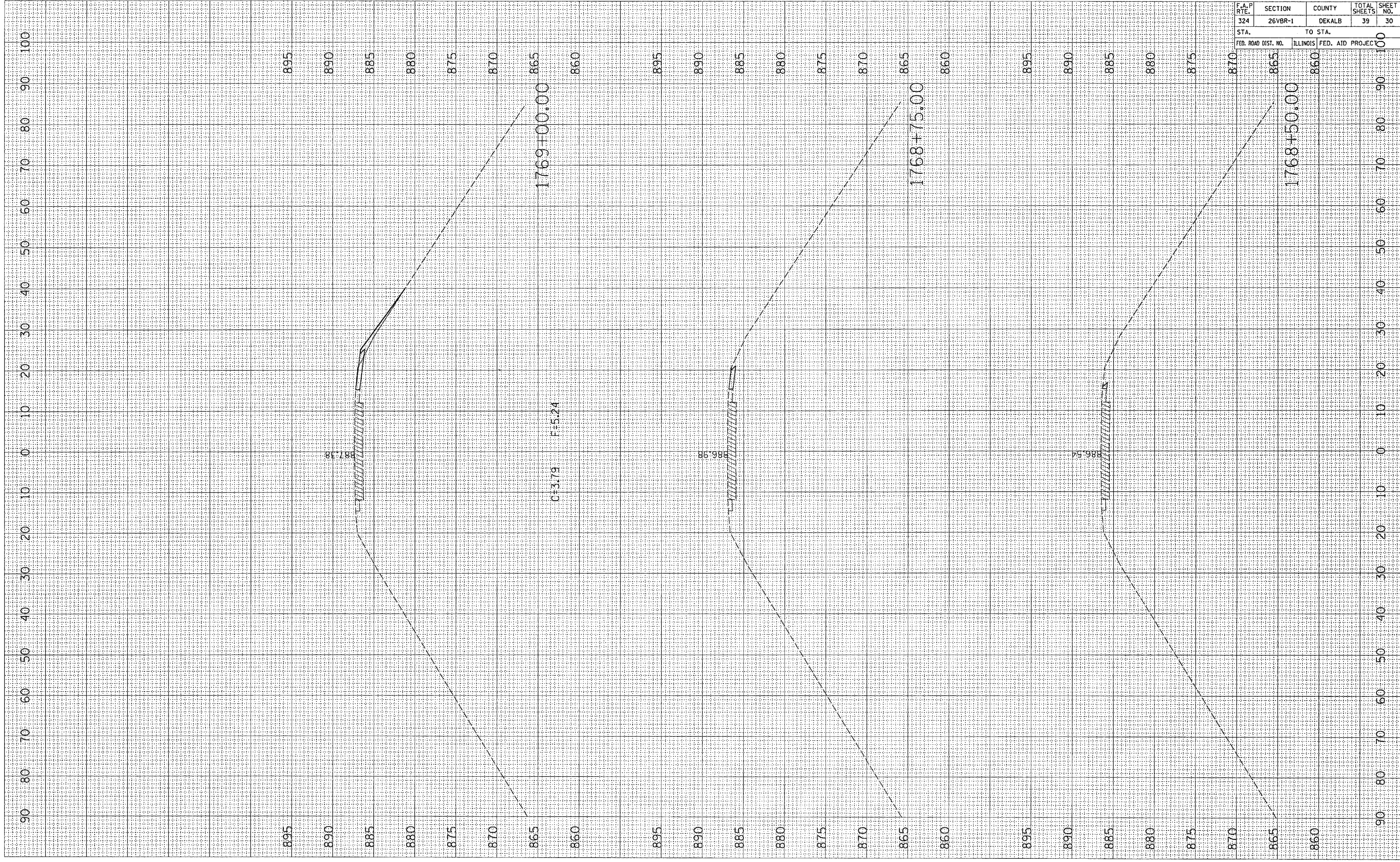


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 REFERENCE = #REF#

PLOT DATE = Wed Aug 21 09:05:51 2008
 FILE NAME = c:\arcgis\mxd\2008\15\4804\05-4804.dwg
 PLOT SCALE = 10.0000 / IN.
 USER NAME = mgplj

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

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



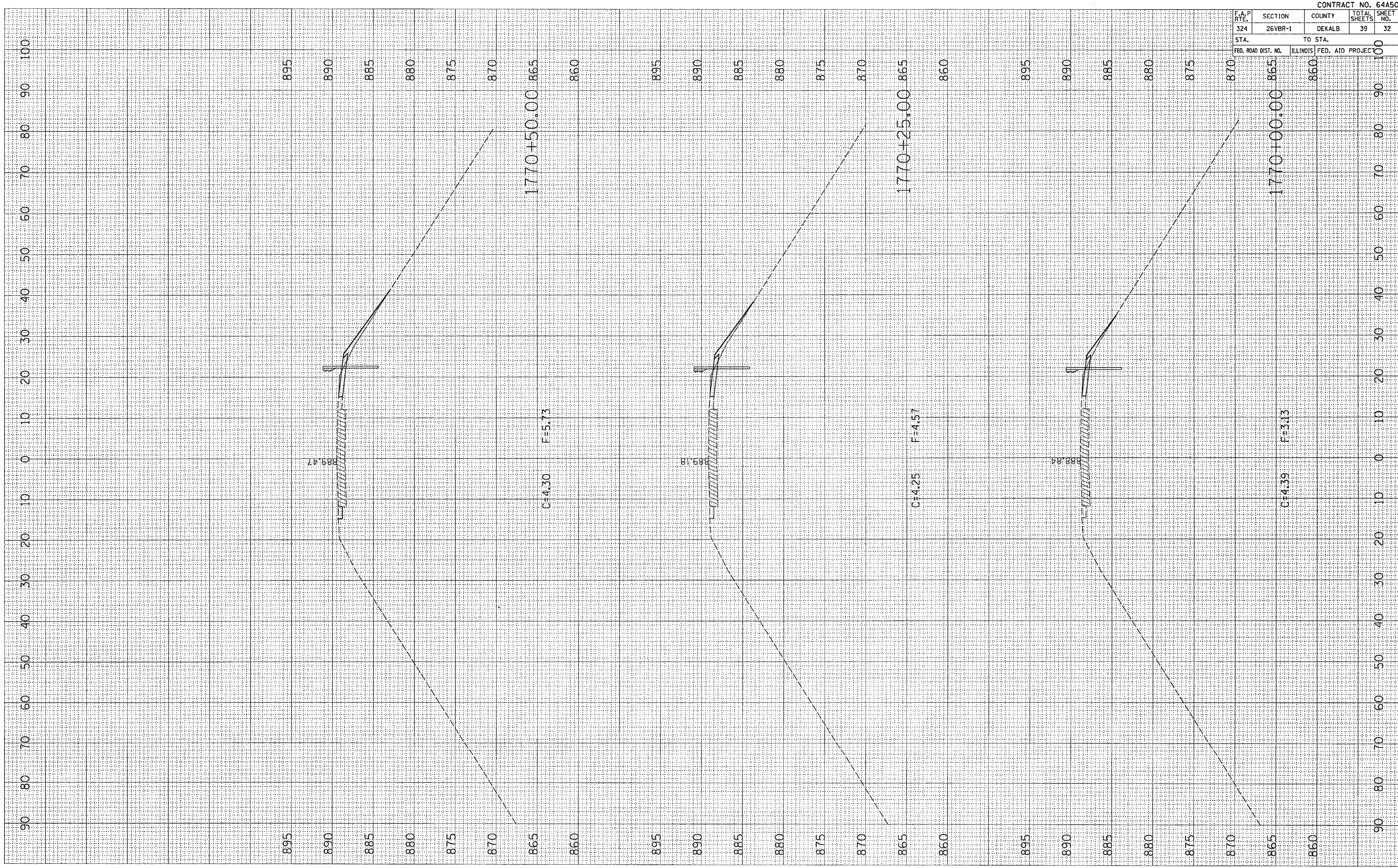
CONTRACT NO. 64450			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
324	26VBR-1	DEKALB	39
STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

PLOT DATE = Wed Aug 31 07:18:23 2006
 FILE NAME = s:\projects\2006\20060405\20060405.dwg
 PLOT SCALE = 18.0000" / 1"
 USER NAME = meh11j

OPTIONAL
 SURVEY
 SURVEY
 PLOTTED
 NOTE BOOK
 AREAS CHECKED

FINAL
 SURVEY
 NOTE BOOK
 AREAS CHECKED

BY
 DATE



CONTRACT NO. 64450			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
324	26VBR-1	DEKALB	39
STA.		TO STA.	
1770+00.00		1770+50.00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	SHEET NO.
			32

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	33

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJEC

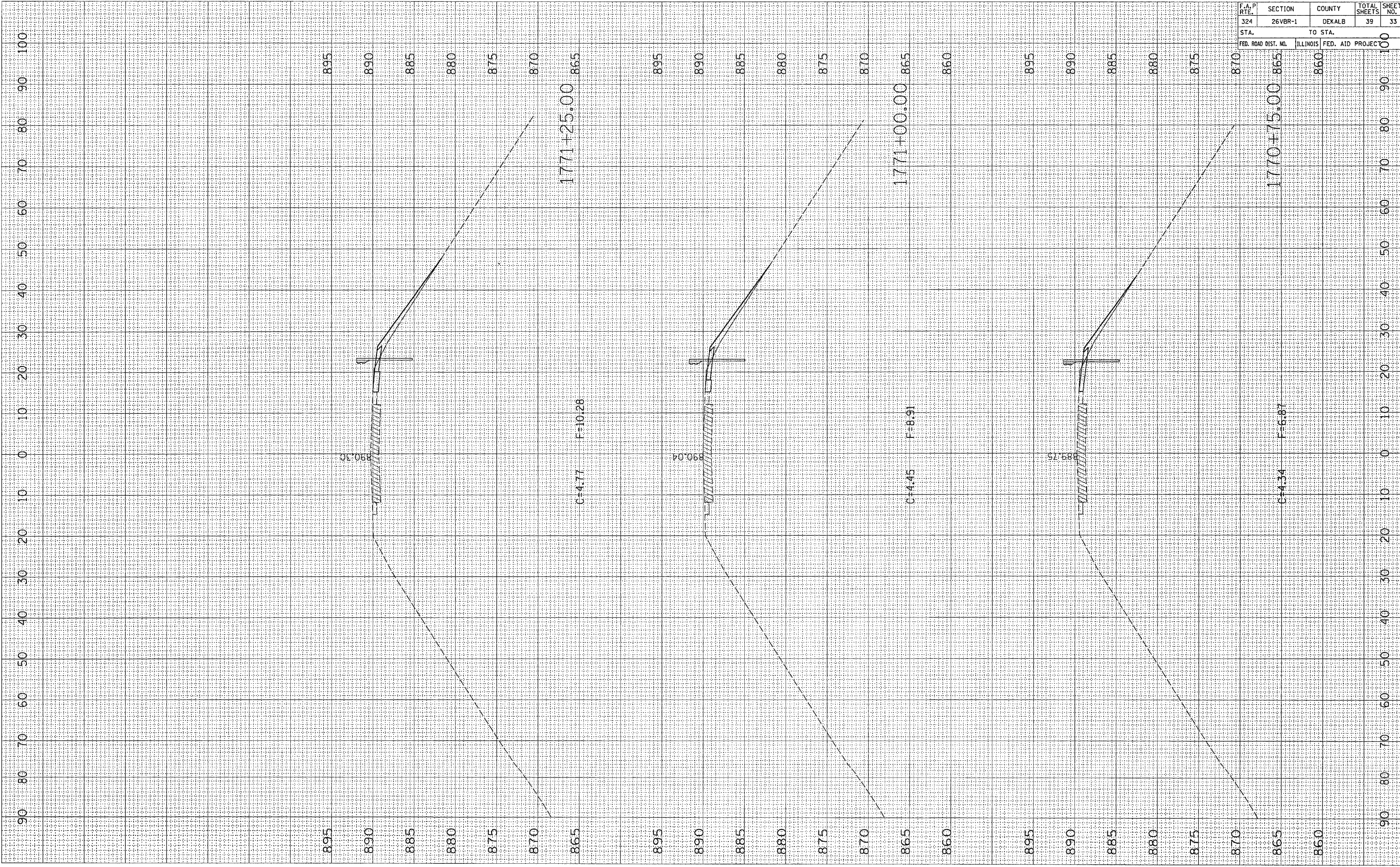
FINAL SURVEY

SURVEYED	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY

SURVEYED	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

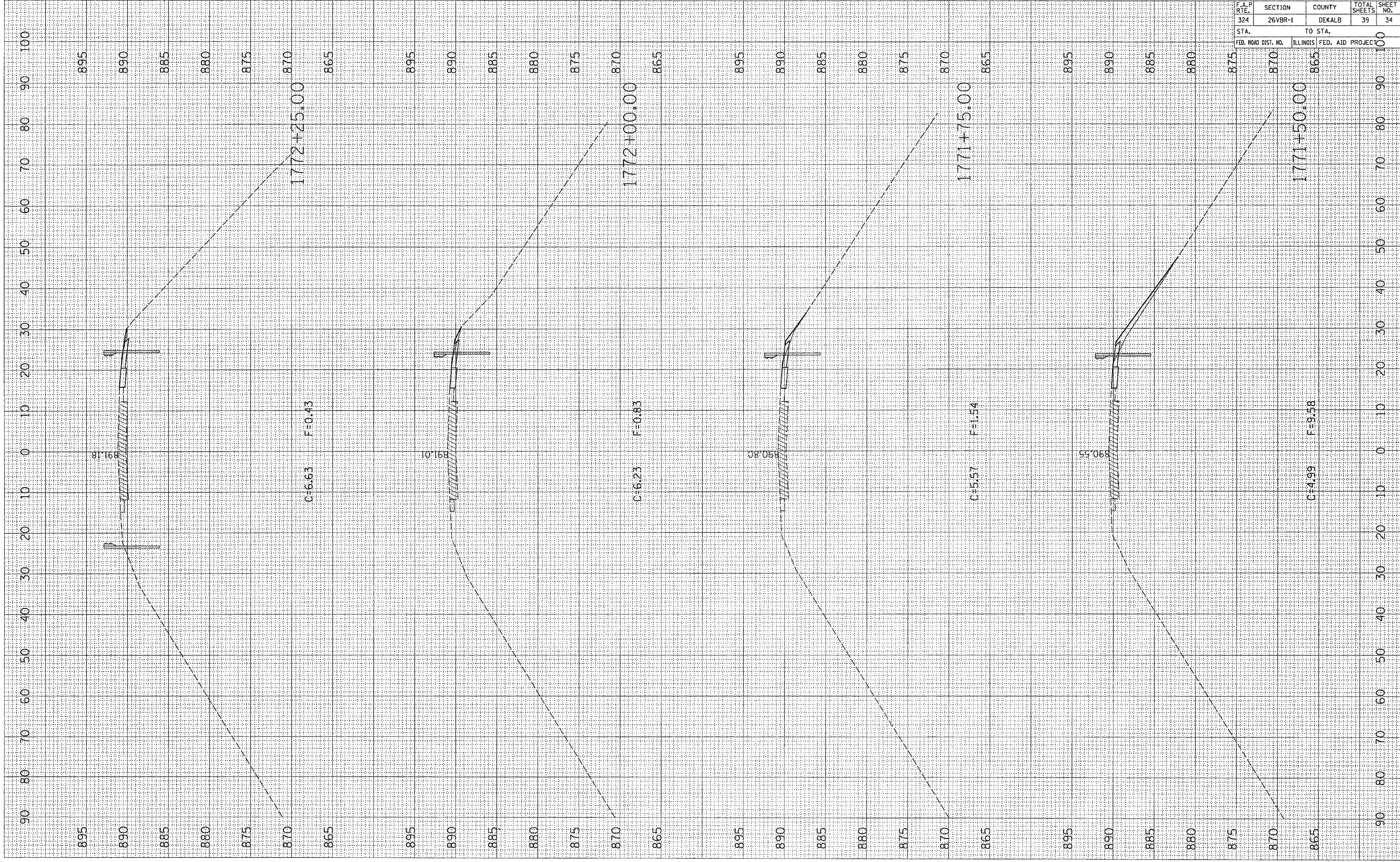
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 USER NAME = meg111



PLOT DATE = Wed Aug 31 07:48:52 2005
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 PLOT SCALE = 10.0000 / IN.
 USER NAME = mmglj

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

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



CONTRACT NO. 64450				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	34
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

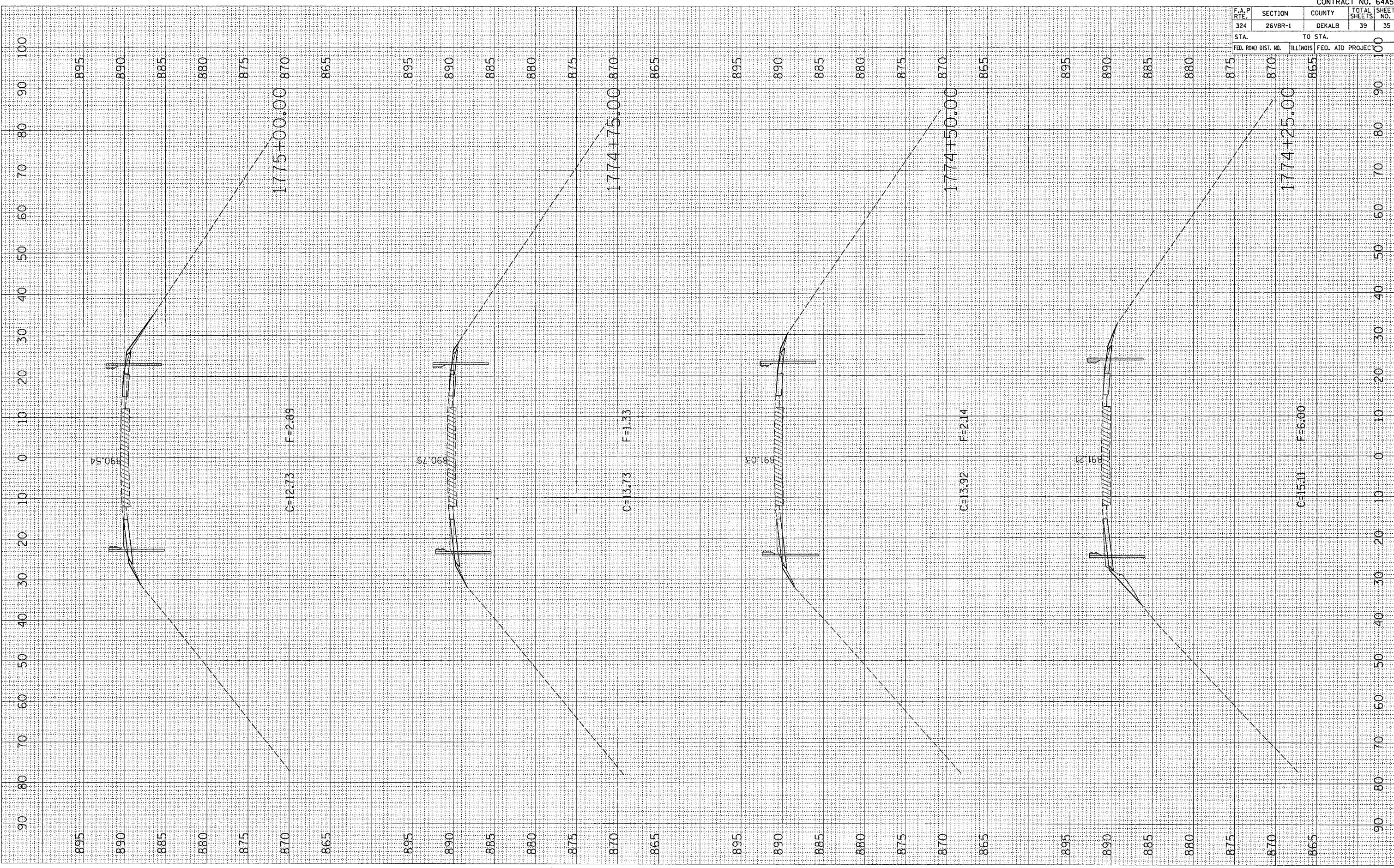
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 PLOT SCALE = 10.0000 / IN.
 USER NAME = meghlj

ORIGINAL SURVEY
 SURVEY PLOTTED
 NOTE BOOK AREAS CHECKED

FINAL SURVEY
 SURVEY PLOTTED
 NOTE BOOK AREAS CHECKED

BY

DATE

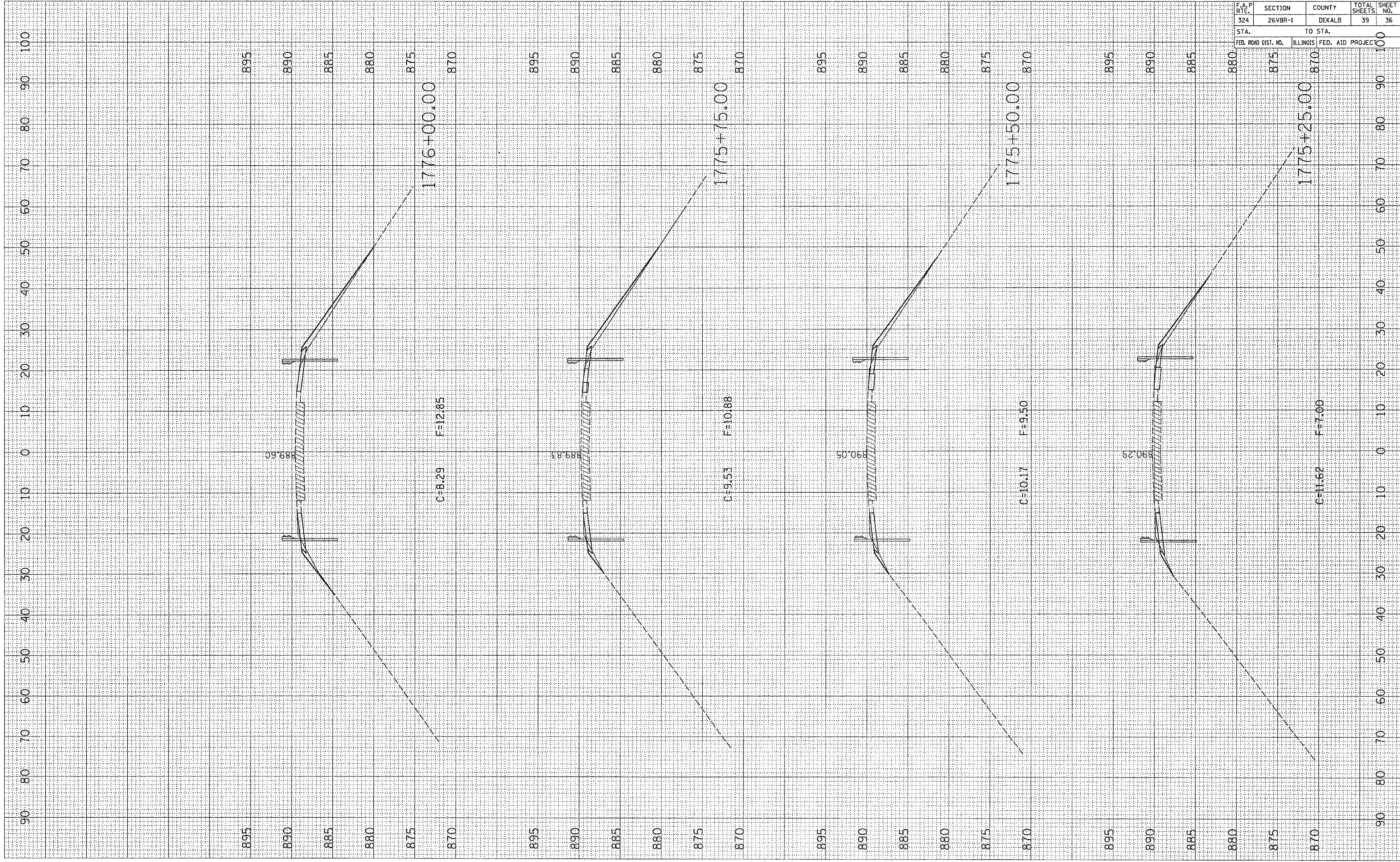


CONTRACT NO. 64A50				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	35
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLOT DATE = Wed Aug 31 07:18:53 2006
 FILE NAME = c:\pca\mss\26VBR-1\26VBR-1.dwg
 PLOT SCALE = 10.00000 / IN.
 USER NAME = msh11j

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

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

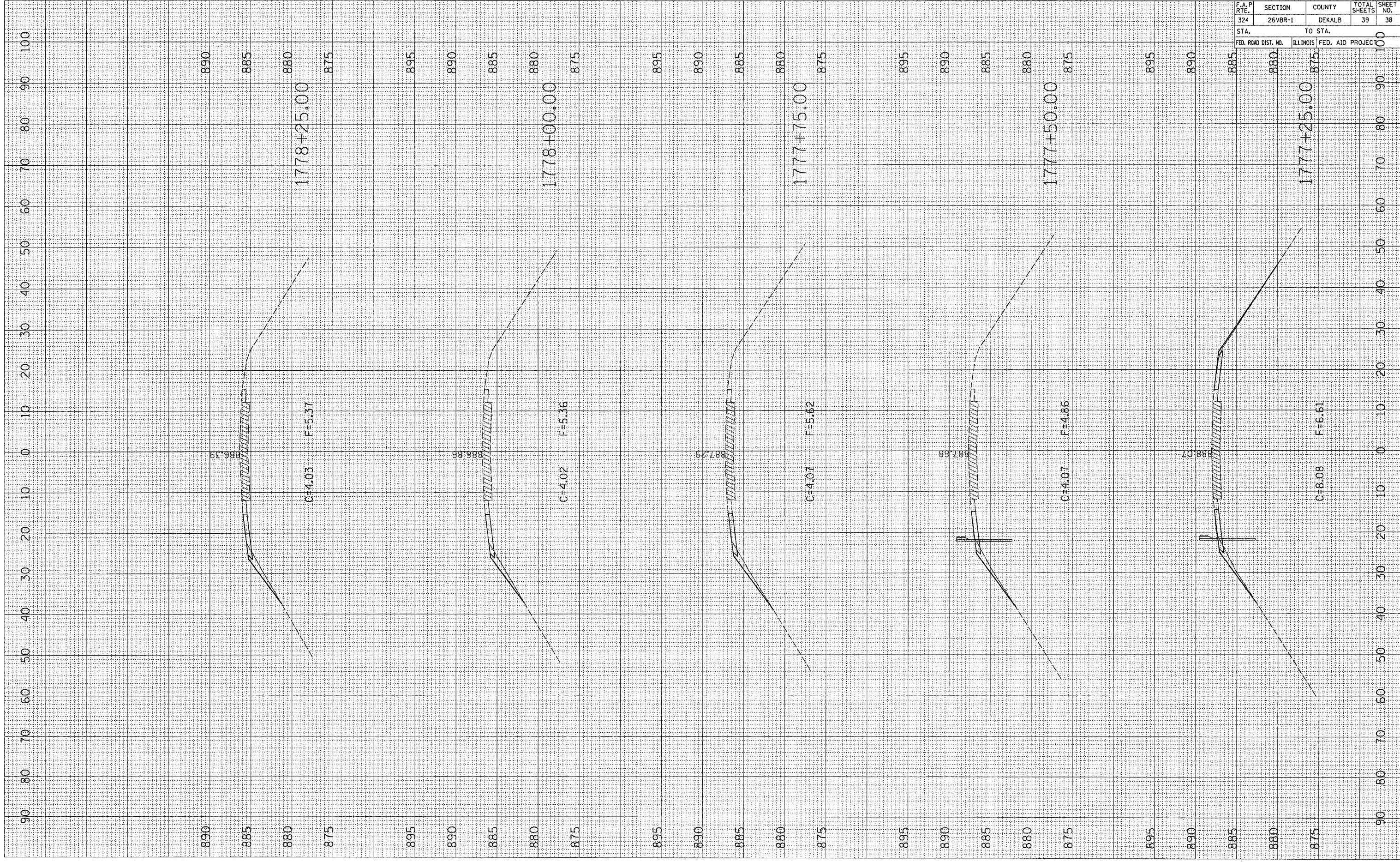


CONTRACT NO. 64A50				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
				100

PLOT DATE = Wed Aug 31 07:18:54 2005
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 PLOT SCALE = 10.0000 / IN.
 USER NAME = mgj11j

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

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



CONTRACT NO. 64A50				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	38
STA.		TO STA.		100
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		100

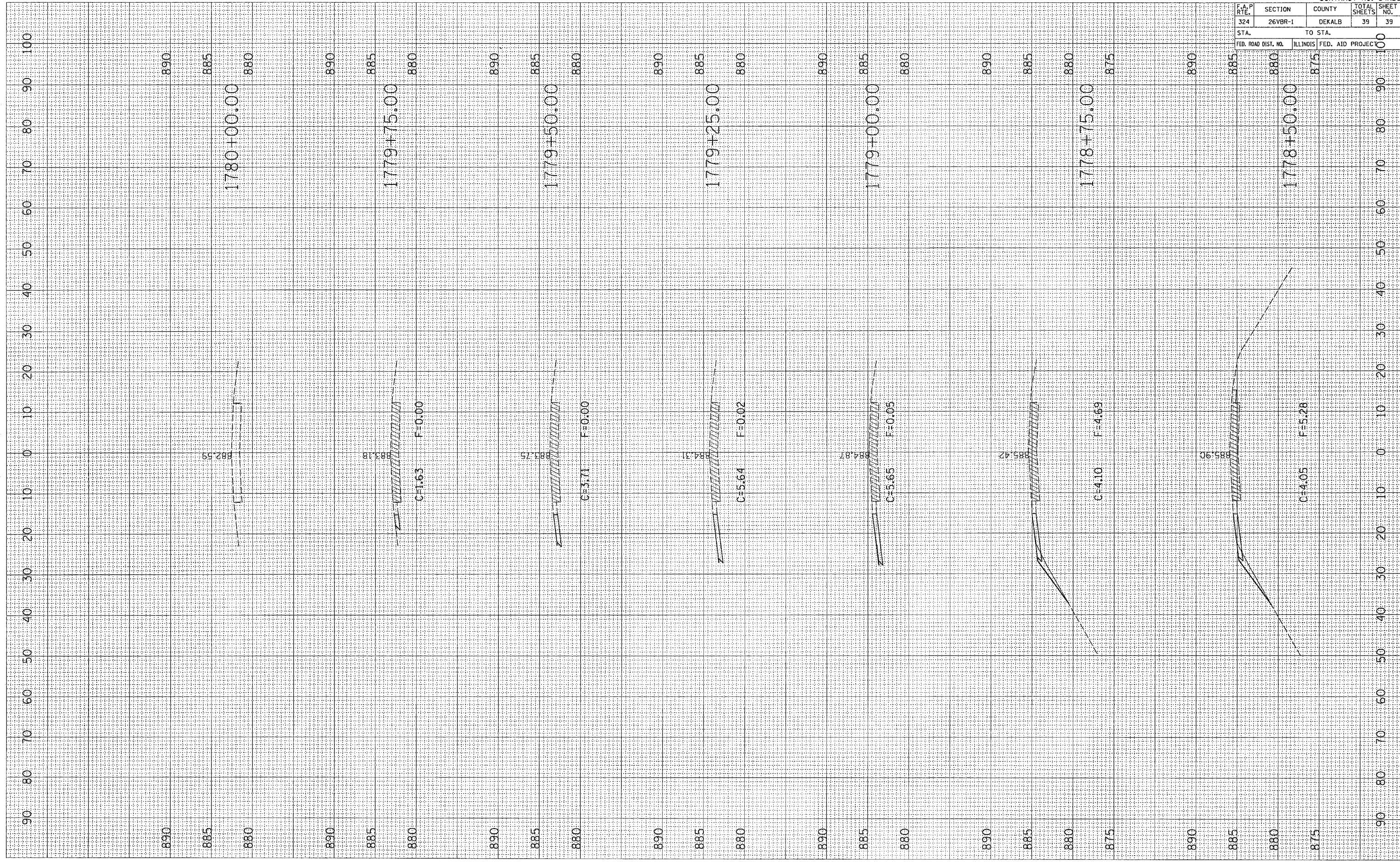
PLOT DATE: Wed Aug 31 07:10:54 2005
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 SCALE: 1"=100.00'
 USER NAME: mag11j

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK
 AREAS CHECKED

FINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK
 AREAS CHECKED

BY: _____

DATE: _____



CONTRACT NO. 64A50				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	26VBR-1	DEKALB	39	39
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		