

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	34	1
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

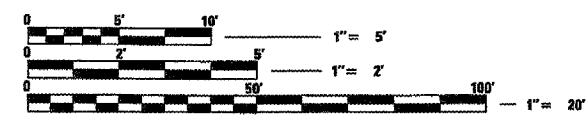
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STANDARDS

- 00001-04 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-01 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280601-03 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-06 PAVEMENT JOINTS
- 420401-05 BRIDGE APPROACH PAVEMENT
- 421001-01 BAR REINFORCEMENT FOR CRC PAVEMENT
- 482011-02 HMA SHOULDER STRIP/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 515001-02 NAME PLATE FOR BRIDGES
- 630001-07 STEEL PLATE BEAM GUARDRAIL
- 630301-04 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
- 631031-06 TRAFFIC BARRIER TERMINAL TYPE 6
- 635006-02 REFLECTOR & TERMINAL MARKER PLACEMENT
- 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
- 667101 PERMANENT SURVEY MARKERS
- 701006-02 OFF-ROAD OPERATIONS, 2L 2W, 4.5m (15') TO 600 mm (24") AWAY
- 701011-01 OFF-ROAD MOVING OPERATIONS, 2L 2W, DAY ONLY
- 701201-02 LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-02 LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
- 701306-01 LANE CLOSURE, 2L 2W, SLOW MOVING OPERATIONS, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-02 LANE CLOSURE, 2L 2W, MOVING OPERATIONS, DAY ONLY
- 701321-08 LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
- 701326-02 LANE CLOSURE, 2L 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
- 702001-06 TRAFFIC CONTROL DEVICES
- 704001-03 TEMPORARY CONCRETE BARRIER
- 780001-01 TYPICAL PAVEMENT MARKINGS
- 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 886006 TYPICAL LAYOUT FOR DETECTION LOOPS

SCALE



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
LUDLOW TOWNSHIP

TRAFFIC DATA

ADT = 3,100 (2005)
DESIGN DESIGNATION - N.A.
CONTRACT NO. 90933

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

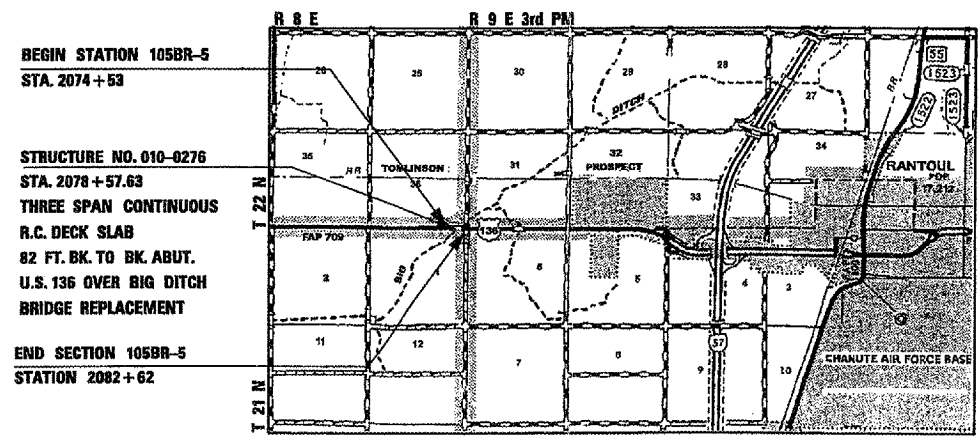
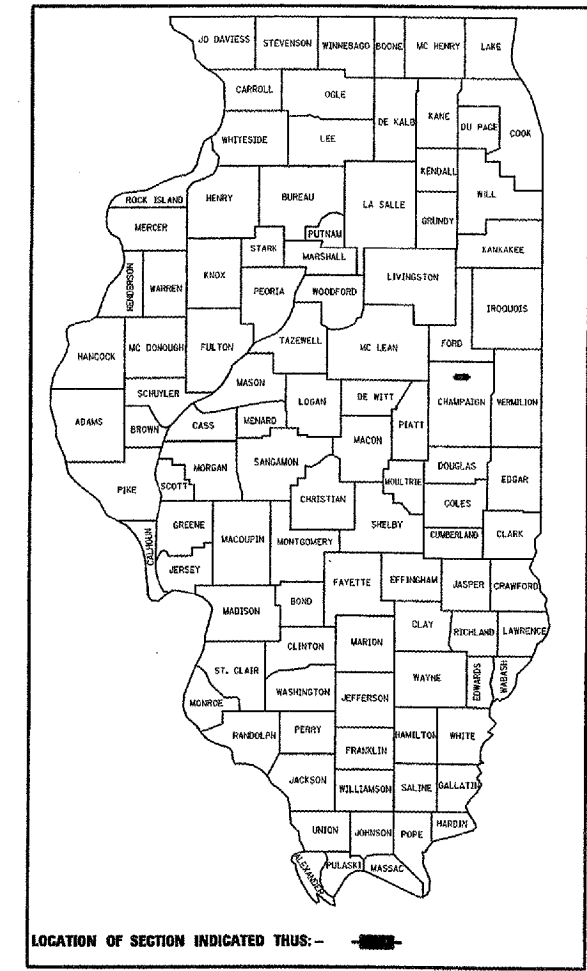
F.A.P. ROUTE 709 (U.S. 136)

**SECTION 105 BR-5
BRIDGE REPLACEMENT**

**PROJECT NO. BRF-0709(020)
CHAMPAIGN COUNTY**

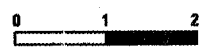
C-95-026-98

CONTRACT 90933
D-95-026-98



LOCATION MAP

SCALE: 1"=1 MILE



GROSS LENGTH OF SECTION 105BR-5 AND PROJECT = 809' (0.153 MILES)
NET LENGTH OF SECTION 105BR-5 AND PROJECT = 809' (0.153 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 10/20 2006
Joseph E. House
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 8, 2006
Eric E. Ham
ENGINEER OF DESIGN AND ENVIRONMENT

December 8, 2006
Milton R. Sees
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

M. J. Silvester
MARTIN J. SILVESTER
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
UPCHURCH AND ASSOCIATES
EXPIRES 11-30-07

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	2
STA. 2074+53		TO STA. 2082+62		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT 90933

GENERAL NOTES

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

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

G.N. -107.31 - UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123.

GN 281 - THE RIPRAP GRADATION SHALL BE IN ACCORDANCE WITH THE GRADATION SPECIFIED IN THE PLANS OR, WITH APPROVAL OF THE ENGINEER, A RIPRAP GRADATION MEETING A D50 GREATER THAN OR EQUAL TO 0.75 FEET. D50 IS DEFINED AS THE MEAN ROCK SIZE AS DESCRIBED IN THE FHWA HYDRAULIC ENGINEERING CIRCULARS (HEC 11, HEC 14 AND HEC 15). IF GRAVEL IS USED FOR THE BEDDING MATERIAL UNDER RIPRAP, THE GRAVEL SHALL BE CRUSHED AS ALLOWED UNDER ARTICLE 1005.01.

GN 406 - THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

GN 406.05B - ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER. THE FOG COAT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER GALLON FOR BITUMINOUS MATERIAL (PRIME COAT) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

GN 406F - THIS JOB INCLUDES LEVELING BINDER OF 1-1/4 INCHES OR GREATER THICKNESS. LOCATIONS OF LEVELING BINDER EQUAL TO OR GREATER THAN 1-1/4 INCHES IN THICKNESS ARE AS FOLLOWS:

STATION 2077 + 66 TO STATION 2077+81

GN 406H - THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	SURFACE COURSE	LEVEL BINDER, PARTIAL DEPTH PATCH, PAV'T PATCH SPECIAL	BASE COURSE (OPTION)
AC/PG:	PG 64-22	PG 64-22	PG 64-22
RAP %: (MAX)	15%	25%	25%
DESIGN AIR VOIDS:	4.0% @ 50 GYRATIONS	4.0% @ 50 GYRATIONS	4.0% @ 50 GYRATIONS
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5	IL-9.5	IL-19.0
FRICTION AGGREGATE:	C	N/A	N/A

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

GN 631 - IF THE CONTRACTOR ELECTS TO USE THE ALTERNATE MOUNTING METHOD OF THRU DRILLING THE MOUNTING HOLES FOR THE TRAFFIC BARRIER TERMINALS, TYPE 6, THE HOLES SHALL BE DRILLED USING A CORE DRILL. A HAMMER DRILL WILL NOT BE ALLOWED.

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

GN 781 - RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

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

GN 20038 - A BRONZE TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE STATE.

EARTHWORK SUMMARY				
STATION TO STATION		EARTH EXCAVATION CU YD	EMBANKMENT CU YD	
LT.&RT. 2074+53.00 2078+37.57		294.1	30.3	
LT.&RT. 2078+77.69 2082+62.00		260.1	128.9	
SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)		0.0	135.0	
CHANNEL EXCAVATION		67.8		
STRUCTURE EXCAVATION (+FROM BRIDGE PLANS)		155.0		
TOTALS		777.0	295.0	
FURNISHED EXCAVATION = EMBANKMENT - (EXCAVATION X 0.75)				
= 294.2 - (709.2 X 0.75) = 0 CU.YD.				

COMMITMENTS: NONE

General Notes JUL 14 2002



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL NOTES
US ROUTE 136 OVER BIG DITCH
FAP RTE. 709 SECTION 105BR-5
CHAMPAIGN COUNTY

SCALE: N.T.S. DRAWN BY: JAU
DATE: 11-2001 CHECKED BY: MJS

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	3
STA. 2074+53		TO STA. 2082+62		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT 90933

**80% FEDERAL 20% STATE
CONSTRUCTION CODE X020-2A**

**80% FEDERAL 20% STATE
CONSTRUCTION CODE X020-2A**

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	560.0
20300100	CHANNEL EXCAVATION	CU YD	68.0
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CUYD	69.0
25000200	SEEDING, CLASS 2	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23.0
25100115	MULCH, METHOD 2	ACRE	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	60.0
28000300	TEMPORARY DITCH CHECKS	EACH	4.0
28000400	PERIMETER EROSION BARRIER	FOOT	1430.0
28100107	STONE RIPRAP, CLASS A4	SO YD	580.0
28200200	FILTER FABRIC	SO YD	580.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	82.0
40600300	AGGREGATE (PRIME COAT)	TON	3.0
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	14.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	414.0
40600990	TEMPORARY RAMP	SO YD	63.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	75.0
42001165	BRIDGE APPROACH PAVEMENT	SO YD	248.0
42001300	PROTECTIVE COAT	SO YD	248.0
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	48.0
44000100	PAVEMENT REMOVAL	SO YD	438.0
44004250	PAVED SHOULDER REMOVAL	SO YD	342.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	45.0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0
50200100	STRUCTURE EXCAVATION	CU YD	92.0
50300100	FLOOR DRAINS	EACH	6.0
50300225	CONCRETE STRUCTURES	CU YD	129.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	172.6
50300260	BRIDGE DECK GROOVING	SO YD	306.0
50300300	PROTECTIVE COAT	SO YD	390.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	41660.0
50800515	BAR SPLICERS	EACH	207.0
51201005	FURNISHING METAL SHELL PILES 12"	FOOT	1295.0
51202305	DRIVING PILES	FOOT	1295.0
51203200	TEST PILE METAL SHELLS	EACH	2.0
51205200	TEMPORARY SHEET PILING	SO FT	998.0

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
51500100	NAME PLATES	EACH	1.0
60109580	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	112.0
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	112.5
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4.0
* 63100169	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)	EACH	4.0
63200310	GUARDRAIL REMOVAL	FOOT	405.0
63301210	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	202.0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6.0
67100100	MOBILIZATION	L SUM	1.0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1.0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.0
70106700	TEMPORARY RUMBLE STRIP	EACH	6.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	112.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1200.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	486.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	380.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	380.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1823.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4.0
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	1.0
* 78200405	GUARDRAIL MARKERS	EACH	6.0
* 78200500	BARRIER WALL MARKERS	EACH	2.0
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3.0
X4401705	PARTIAL DEPTH REMOVAL	SO YD	27.0
X4421000	PARTIAL DEPTH PATCHING	TON	9.0
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1.0
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1.0
* X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0
XX001135	PAVEMENT PATCHING SPECIAL	SO YD	45.0
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	16.0
Z0002900	BASE COURSE (OPTION)	SO YD	935.0
** 20030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0
** 20030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0
Z0037300	PAVEMENT GROOVING	SO YD	226.0
Z0038700	PERMANENT BENCH MARKS	EACH	1.0

* SPECIALTY ITEM

** SFTY-3N

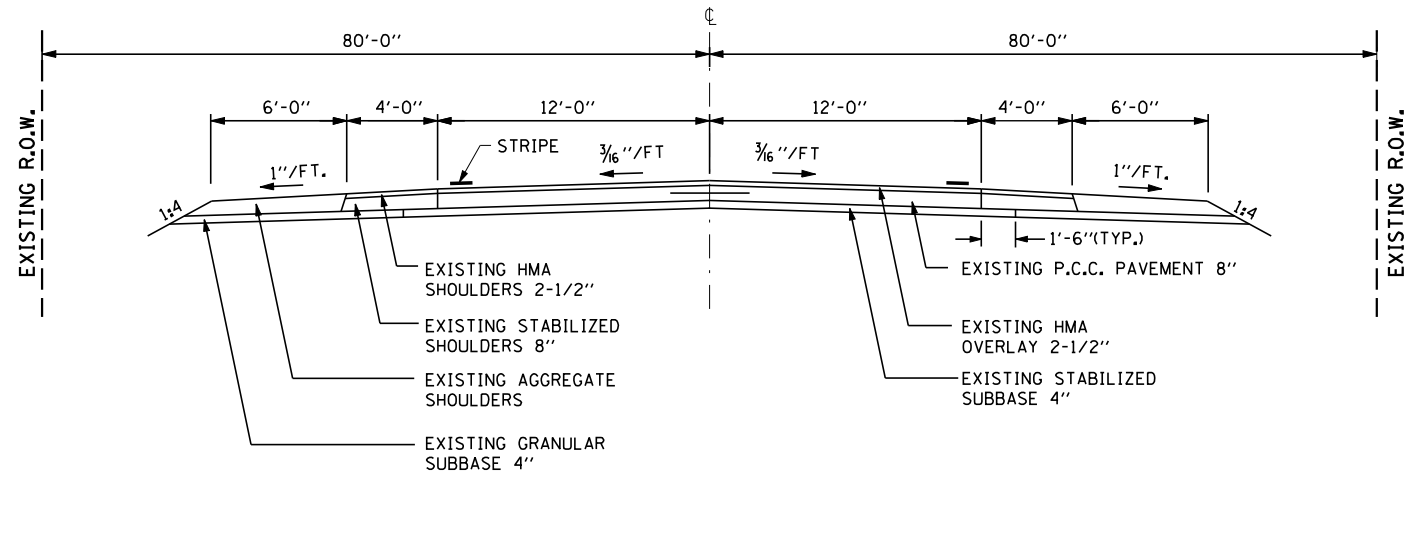
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
US ROUTE 136 OVER BIG DITCH
FAP RTE. 709 SECTION 105BR-5
CHAMPAIGN COUNTY

SCALE: N.T.S.
DATE 11-2001

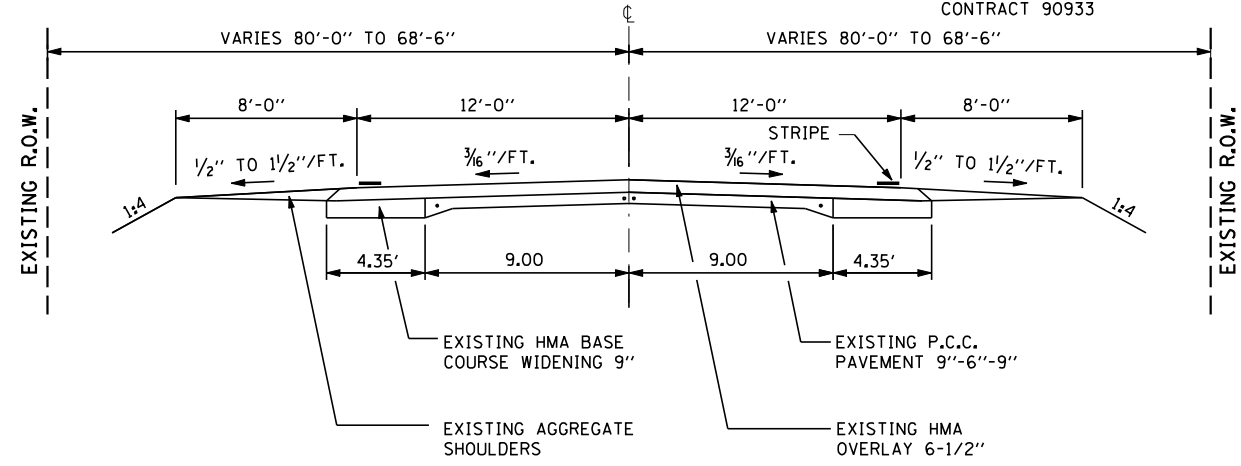
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	4
STA. 2074+53		TO STA. 2082+62		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 90933				



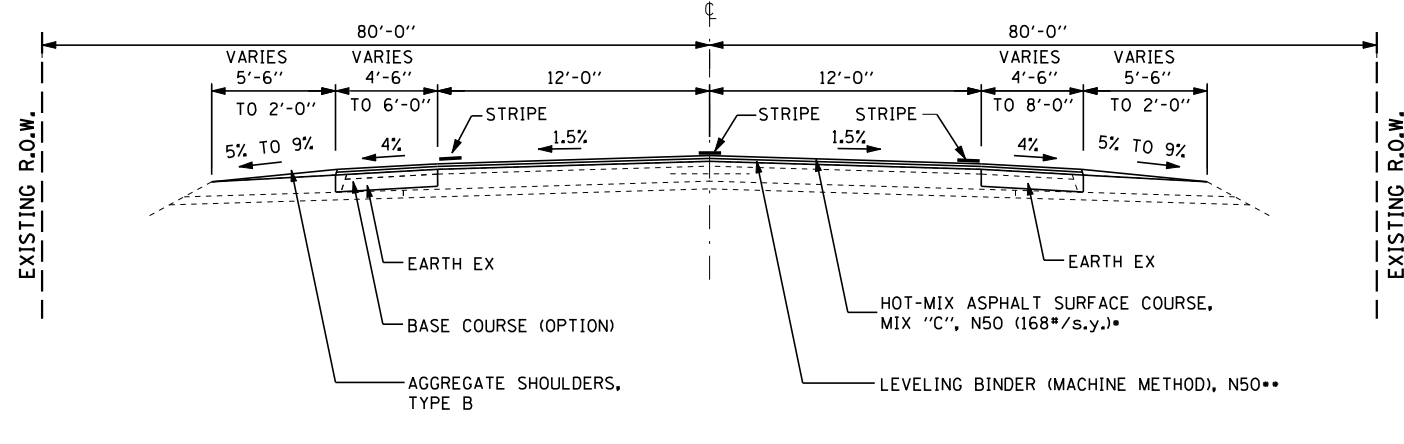
EXISTING TYPICAL ROADWAY SECTION

STA. 2074+53 TO 2078+37.57



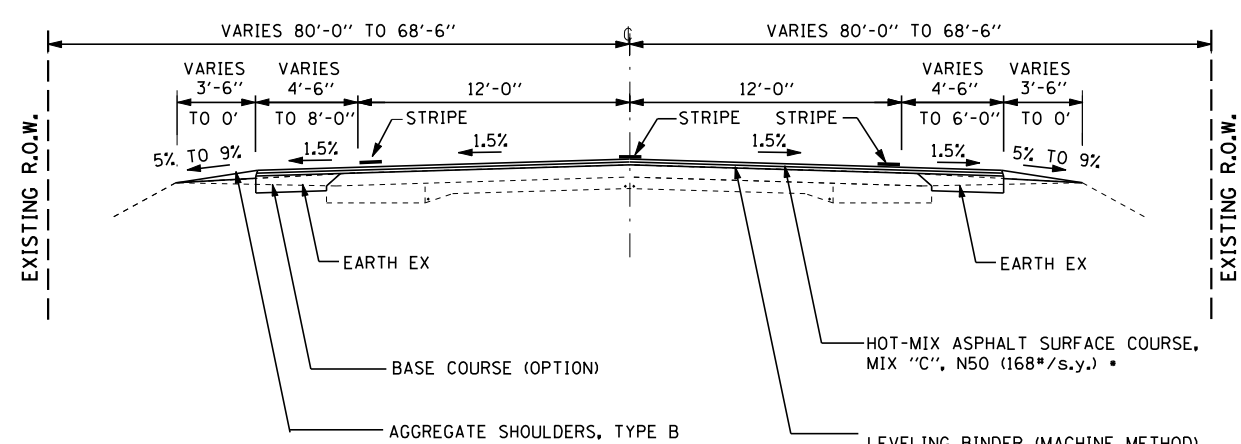
EXISTING TYPICAL ROADWAY SECTION

STA. 2078+77.70 TO STA. 2082+62



PROPOSED TYPICAL ROADWAY SECTION

STA. 2074+53 TO 2078+17.13
(SHOULDER IMPROVEMENT ONLY FROM STA. 2074+53 TO 2076+60)



PROPOSED TYPICAL ROADWAY SECTION

STA. 2078+98.13 TO 2082+62
(SHOULDER IMPROVEMENT ONLY FROM STA. 2080+20 TO 2082+62)

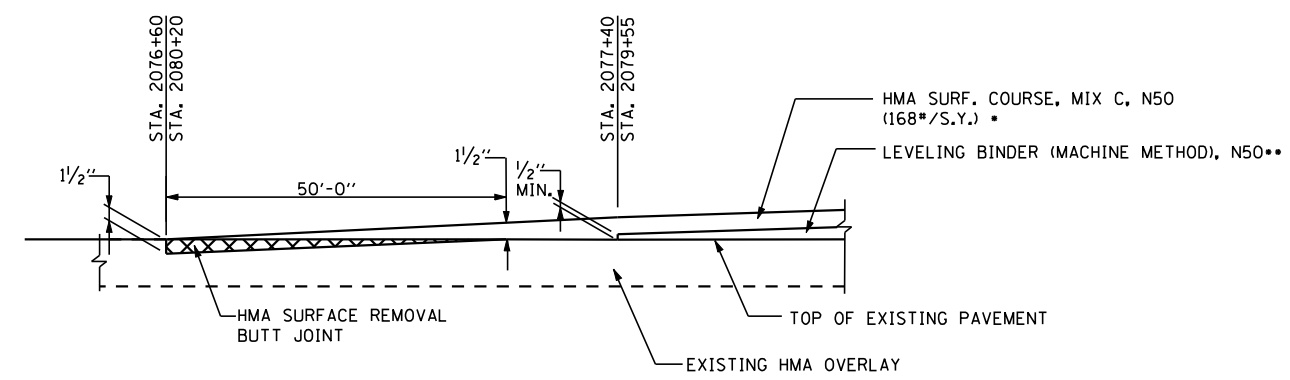
- STA. 2076+60 - STA. 2077+81
- VARIABLE DEPTH LEVELING BINDER

STA.	YIELD #/s.y.	THICKNESS (IN)		
		LT. EOP	CL	RT. EOP
2077+40	69	0.50	0.55	0.94
2077+81	162	1.08	1.55	1.62

- STA. 2079+34 - STA. 2080+20
- VARIABLE DEPTH LEVELING BINDER

STA.	YIELD #/s.y.	THICKNESS (IN)		
		LT. EOP	CL	RT. EOP
2079+34	189	1.81	1.55	1.84
2079+55	49	0.50	0.50	0.52

PROPOSED BRIDGE OMISSION
STA. 2078+17.13 TO STA. 2078+98.13



TYPICAL BUTT JOINT DETAIL

TRAFFIC DATA

ADT	3100 (2005)
SU	7.3%
MU	9.7%
ADT	3700 (2019)
DHV	400 (2019)

FUNCTIONAL CLASS: MINOR ARTERIAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTIONS
US ROUTE 136 OVER BIG DITCH
FAP RTE. 709 SECTION 105BR-5
CHAMPAIGN COUNTY

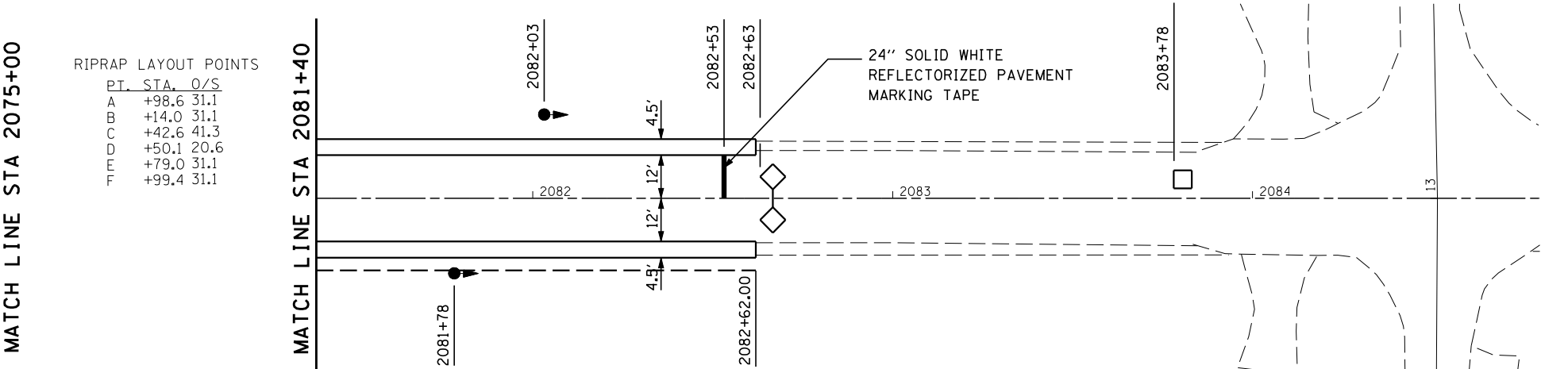
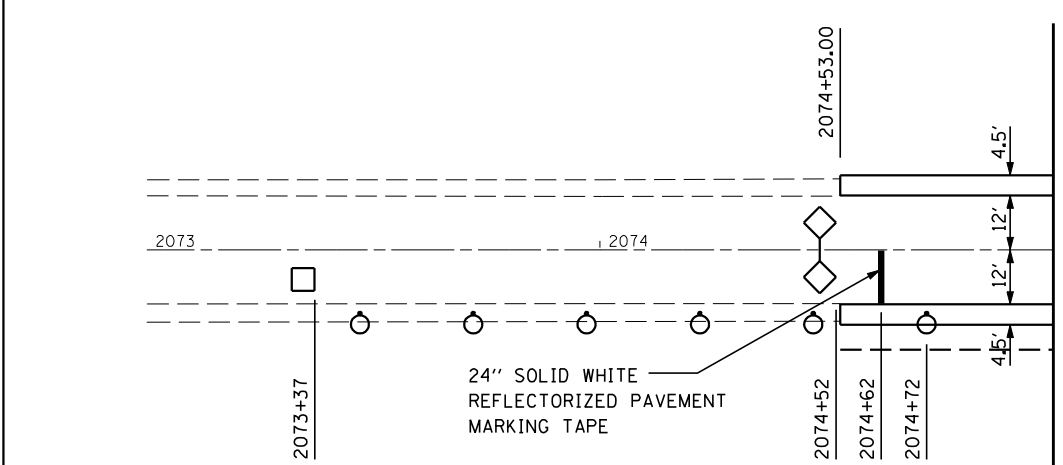
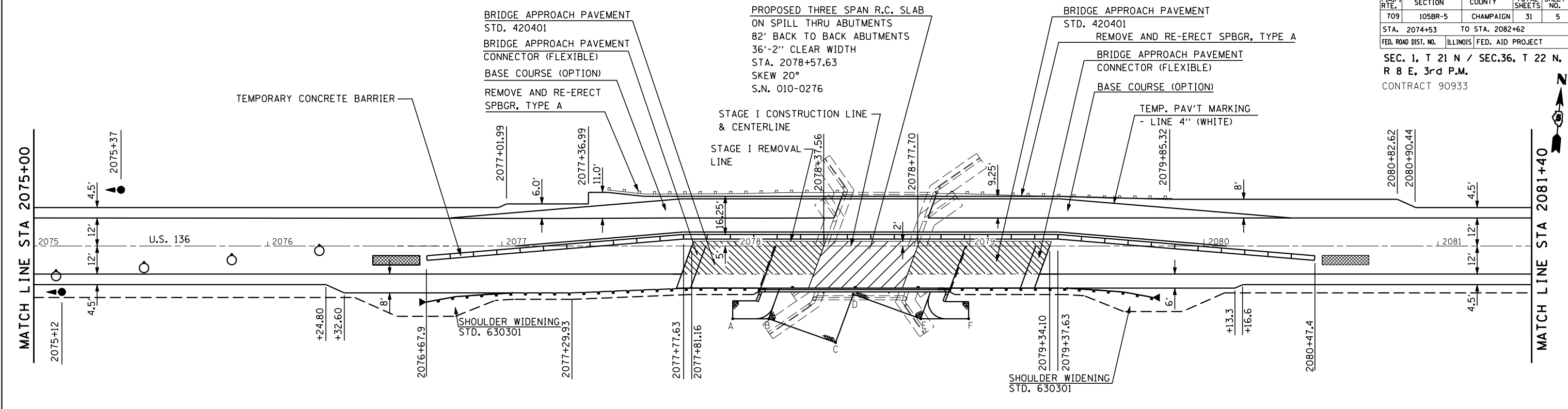
SCALE: N.T.S.
DATE: 11-2001

DRAWN BY: LP
CHECKED BY: MJS

11-2001 4-22-2002



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	5
STA. 2074+53		TO STA. 2082+62		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SEC. 1, T 21 N / SEC. 36, T 22 N, R 8 E, 3rd P.M. CONTRACT 90933				



RIPRAP LAYOUT POINTS

PT.	STA.	O/S
A	+98.6	31.1
B	+14.0	31.1
C	+42.6	41.3
D	+50.1	20.6
E	+79.0	31.1
F	+99.4	31.1

TRAFFIC BARRIER TERMINAL, TYPE 6

STATION	TO STATION	EACH
RT. 2077+79.93	RT. 2078+10.58	1
RT. 2078+91.58	RT. 2079+22.22	1
TOTAL 2		

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)

STATION	TO STATION	EACH
RT. 2076+67.64	RT. 2077+04.93	1
RT. 2079+40.97	RT. 2079+78.27	1
TOTAL 2		

PARTIAL DEPTH REMOVAL AND PATCHING LOCATIONS

STATION	QUANTITY
LT. 2074+62	5.3 SY (1.8 TONS)
RT. 2074+62	5.3 SY (1.8 TONS)
RT. 2075+61	5.3 SY (1.8 TONS)
LT. 2077+98	5.3 SY (1.8 TONS)
TOTAL 26.7 SY	
USE 27.0 SY (9.0 TONS)	

STEEL PLATE BEAM GUARDRAIL, TYPE A

STATION	TO STATION	FOOT
RT. 2077+04.93	RT. 2077+79.93	75.00
RT. 2079+22.22	RT. 2079+40.97	18.75
TOTAL 93.75		

PAVEMENT REMOVAL

STATION	TO STATION	SO. YD.
RT. 2077+81.16	RT. 2078+37.56	88
RT. 2078+77.70	RT. 2079+34.10	88
TOTAL 184		

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

STATION	TO STATION	SO. YD.
RT. 2077+81.16	RT. 2077+87.16	12
RT. 2079+28.10	RT. 2079+34.10	12
TOTAL 24		

BRIDGE APPROACH PAVEMENT

STATION	TO STATION	SO. YD.
RT. 2077+87.16	RT. 2078+17.16	62
RT. 2078+98.10	RT. 2079+28.10	62
TOTAL 124		

BASE COURSE (OPTION)

STATION	TO STATION	SO. YD.
LT. 2074+53.00	LT. 2078+41.96	259
LT. 2078+82.00	LT. 2082+62.00	281
RT. 2074+53.00	RT. 2077+74.53	213
RT. 2079+27.56	RT. 2082+62.00	182
TOTAL 935		

REMOVE AND RE-ERECT SPBGR, TYPE A

STATION	TO STATION	FOOT.
LT. 2077+45.3	LT. 2078+46.3	101
LT. 2078+85.3	LT. 2079+86.3	101
TOTAL 202		

TEMPORARY RAMP

STATION	TO STATION	SO. YD.
LT. 2076+60.00	LT. 2076+65.00	6.75
LT. 2080+15.00	LT. 2080+20.00	6.75
TOTAL 13.50		

GUARDRAIL REMOVAL

STATION	TO STATION	FOOT
RT. 2077+28.97	RT. 2078+30.04	101.07
RT. 2078+69.19	RT. 2079+70.23	101.04
TOTAL 202.11		

TEMP. PAVEMENT MARKING - LINE 4"

STATION	TO STATION	FOOT
LT. 2076+78.00	LT. 2080+38.00	360
LT. 2077+06.00	LT. 2080+10.00	304
TOTAL 664		

PAVEMENT PATCHING SPECIAL

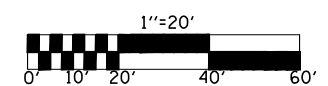
STATION	TO STATION	SO. YD.
LT. 2078+42.00	LT. 2078+82.00	45

PAVED SHOULDER REMOVAL

STATION	TO STATION	SO. YD.
LT. 2074+53.00	LT. 2078+37.56	171
RT. 2074+53.00	RT. 2078+37.56	171
TOTAL 342		

NOTE: SEE STANDARD 701321 FOR ADDITIONAL INFORMATION

- BRIDGE DECK REMOVAL
- PAVEMENT REMOVAL
- IMPACT ATTENUATOR, NON-REDIRECTIVE (TEMPORARY) TEST LEVEL 3



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE 1 CONSTRUCTION PLAN
US ROUTE 136 OVER BIG DITCH
FAP RTE. 709 SECTION 105BR-5
CHAMPAIGN COUNTY

SCALE: 1"=20'
DATE 11-2001

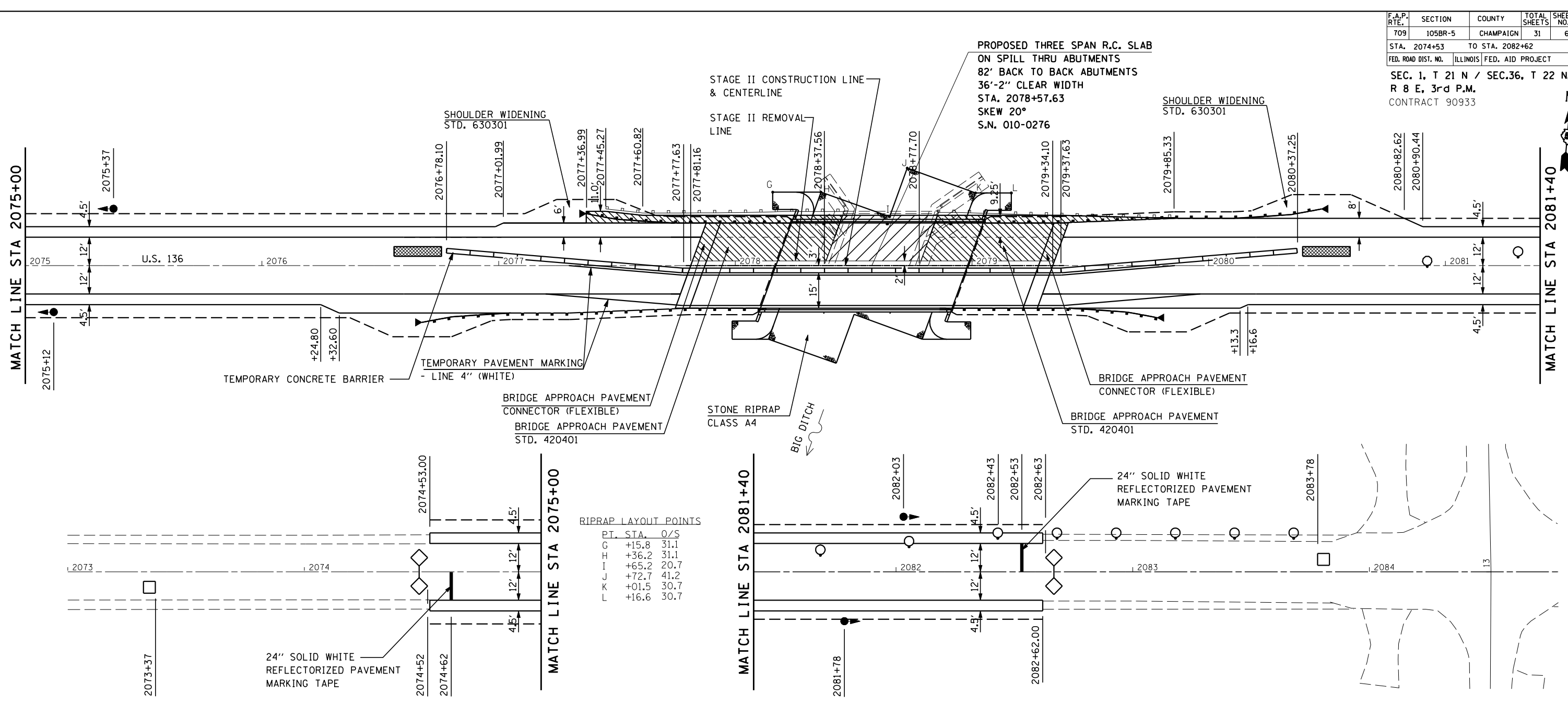
DRAWN BY RMH
CHECKED BY MJS

UPCHURCH AND ASSOCIATES
1101 S. WASHINGTON ST.
MATTSON, IL 62450-3177
TEL: 618-241-1234
FAX: 618-241-1235

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	6
STA. 2074+53		TO STA. 2082+62		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
SEC. 1, T 21 N / SEC. 36, T 22 N, R 8 E, 3rd P.M. CONTRACT 90933				

MATCH LINE STA 2075+00

MATCH LINE STA 2081+40



RIPRAP LAYOUT POINTS

PT.	STA.	O/S
G	+15.8	31.1
H	+36.2	31.1
I	+65.2	20.7
K	+72.7	41.2
L	+01.5	30.7
L	+16.6	30.7

TRAFFIC BARRIER TERMINAL, TYPE 6

STATION	TO	STATION	EACH
LT. 2077+93.04		LT. 2078+23.68	1
LT. 2079+04.68		LT. 2079+35.33	1
			TOTAL 2

PAVEMENT REMOVAL

STATION	TO	STATION	SQ. YD.
LT. 2077+81.16		LT. 2078+37.56	63
LT. 2078+77.70		LT. 2079+34.10	63
LT. 2077+36.99		LT. 2078+45.27	5 (B.C.O.)
LT. 2077+45.27		LT. 2077+60.82	7 (B.C.O.)
LT. 2077+60.82		LT. 2077+88.53	10 (B.C.O.)
LT. 2077+88.53		LT. 2078+41.96	48 (B.C.O.)
LT. 2078+82.00		LT. 2079+38.46	58 (B.C.O.)
LT. 2079+38.46		LT. 2079+85.33	9 (B.C.O.)
			TOTAL 263

BRIDGE APPROACH PAVEMENT

STATION	TO	STATION	SQ. YD.
LT. 2077+87.16		LT. 2078+17.16	62
LT. 2078+98.10		LT. 2079+28.10	62
			TOTAL 126

TEMP. PAVEMENT MARKING - LINE 4"

STATION	TO	STATION	FOOT
RT. 2077+20.00		RT. 2080+00.00	280
RT. 2077+30.00		RT. 2079+86.00	256
			TOTAL 536

NOTE: SEE STANDARD 701321 FOR ADDITIONAL INFORMATION

- IMPACT ATTENUATOR, NON-REDIRECTIVE (TEMPORARY), TEST LEVEL 3
- BRIDGE DECK AND SUBSTRUCTURE REMOVAL
- PAVEMENT REMOVAL

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)

STATION	TO	STATION	EACH
LT. 2077+36.99		LT. 2077+74.29	1
LT. 2080+10.33		LT. 2080+47.62	1
			TOTAL 2

TEMPORARY RAMP

STATION	TO	STATION	SQ. YD.
RT. 2077+71.16		RT. 2077+81.16	20.00
RT. 2079+34.10		RT. 2079+42.10	16.00
RT. 2076+60.00		RT. 2076+65.00	6.75
RT. 2080+15.00		RT. 2080+20.00	6.75
			TOTAL 49.50

STONE RIPRAP, CLASS A4

STATION	TO	STATION	SQ. YD.
2077+98.65		2079+15.61	580
			TOTAL 580

STEEL PLATE BEAM GUARDRAIL, TYPE A

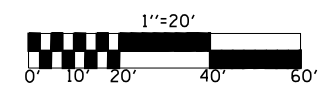
STATION	TO	STATION	FOOT
LT. 2077+74.29		LT. 2077+93.04	18.75
LT. 2079+35.33		LT. 2080+10.33	75.00
			TOTAL 93.75

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

STATION	TO	STATION	SQ. YD.
LT. 2077+81.16		LT. 2077+87.16	12
LT. 2079+28.10		LT. 2079+34.10	12
			TOTAL 24

GUARDRAIL REMOVAL

STATION	TO	STATION	FOOT
LT. 2077+45.27		LT. 2078+46.36	101.08
LT. 2078+85.33		LT. 2079+86.58	101.25
			TOTAL 202.33



REVISIONS

NAME	DATE

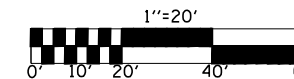
ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE 2 CONSTRUCTION PLAN
US ROUTE 136 OVER BIG DITCH
FAP RTE. 709 SECTION 105BR-5
CHAMPAIGN COUNTY

SCALE: 1"=20'
DATE 11-2001
DRAWN BY RMH
CHECKED BY MJS

UPCHURCH AND ASSOCIATES
1101 S. W. 11th St., Ft. Lauderdale, FL 33304
TEL: (954) 469-2321
FAX: (954) 469-2322
MATTSON, IL (217) 235-3177

B.C.O. = BASE COURSE OPTION

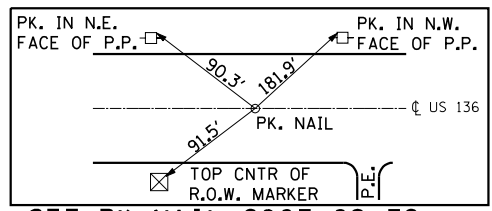
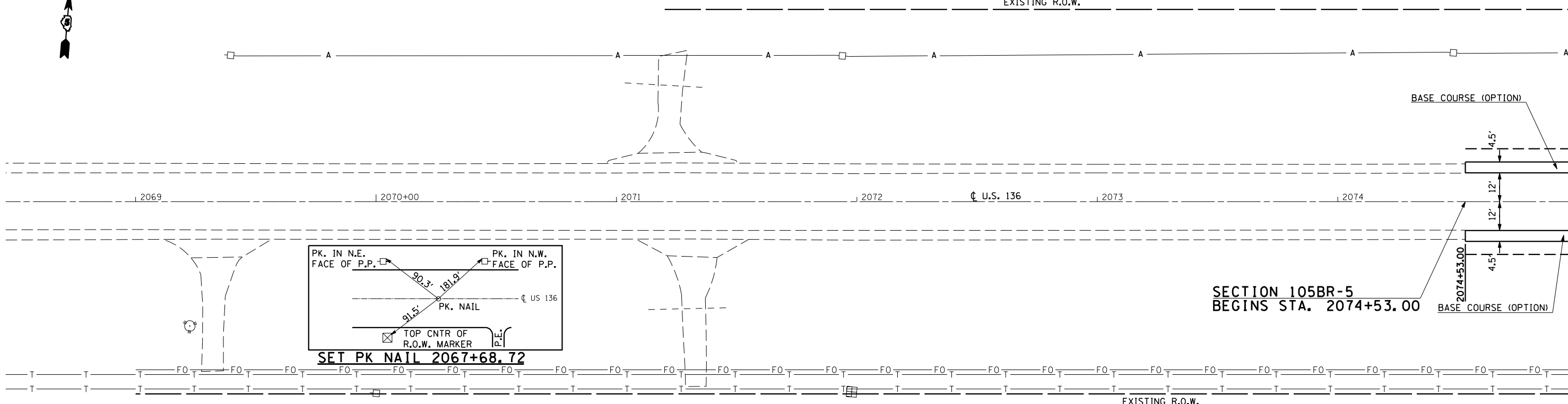
SEC. 36 T22N R8E, 3rd P.M.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	7
STA. 2069+00		TO STA. 2075+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



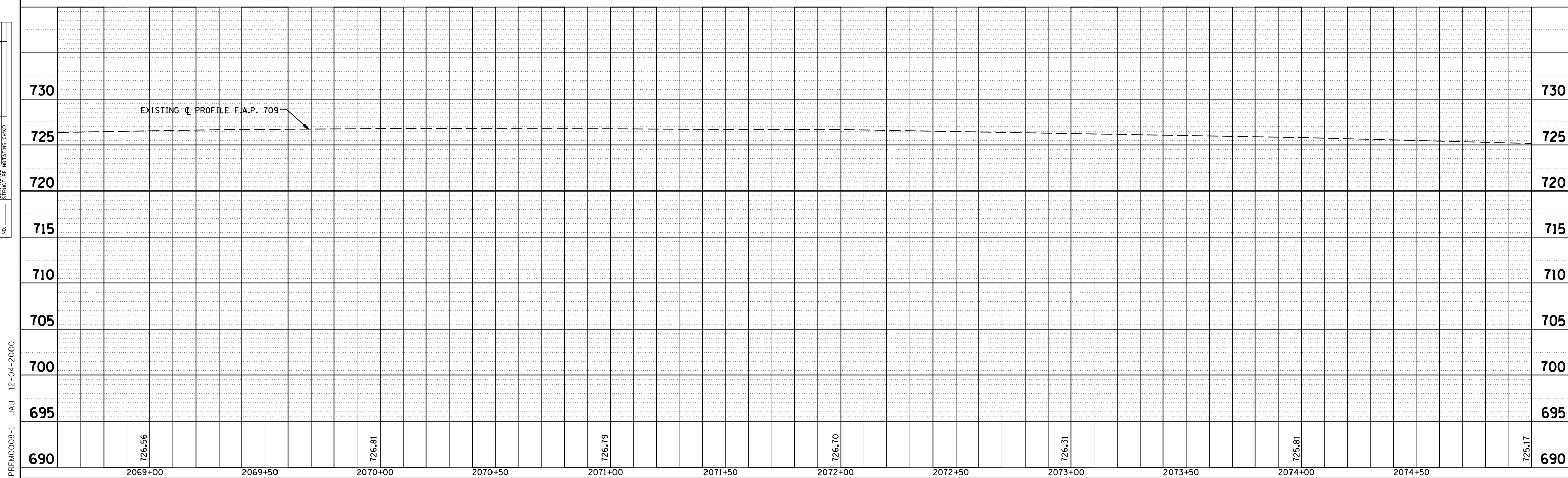
PLAN	SURVEYED	DATE
NO. _____	BY _____	_____
NOTE BOOK NO. _____	PLOTTED _____	
	CHKD BY _____	
	DATE _____	



SET PK NAIL 2067+68.72

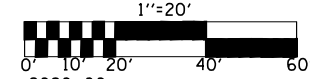
SEC. 1 T22N R8E, 3rd P.M.

PROFILE	SURVEYED	DATE
NO. _____	BY _____	_____
	PLOTTED _____	
	CHKD BY _____	
	DATE _____	



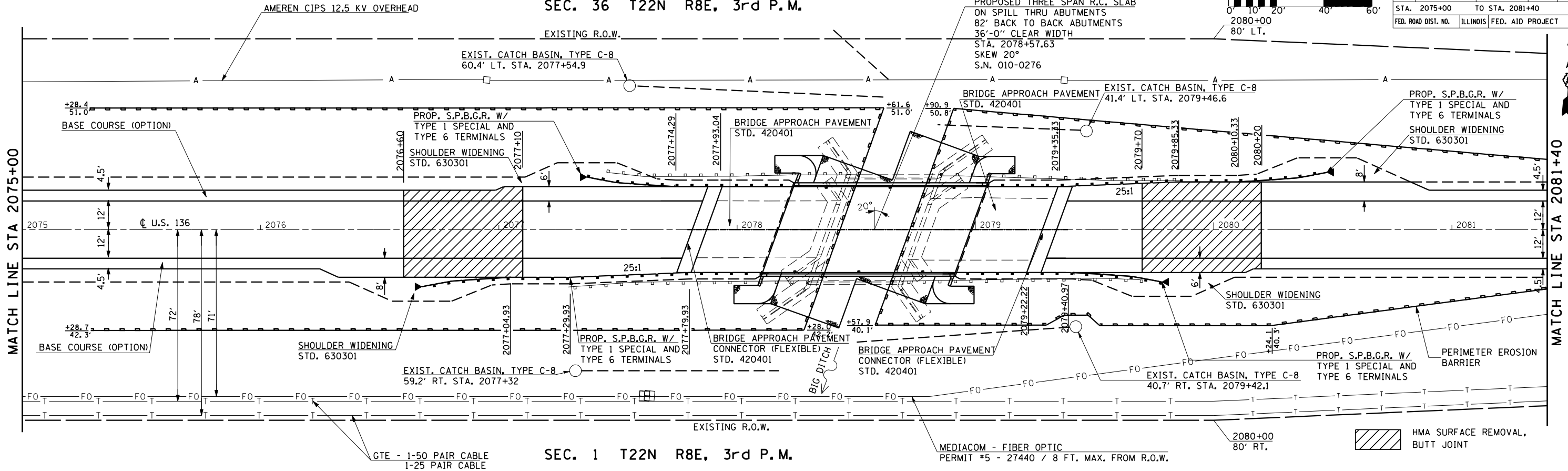
PRFM0008-1 JAN 12-04-2000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	8
STA. 2075+00		TO STA. 2081+40		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



SEC. 36 T22N R8E, 3rd P.M.

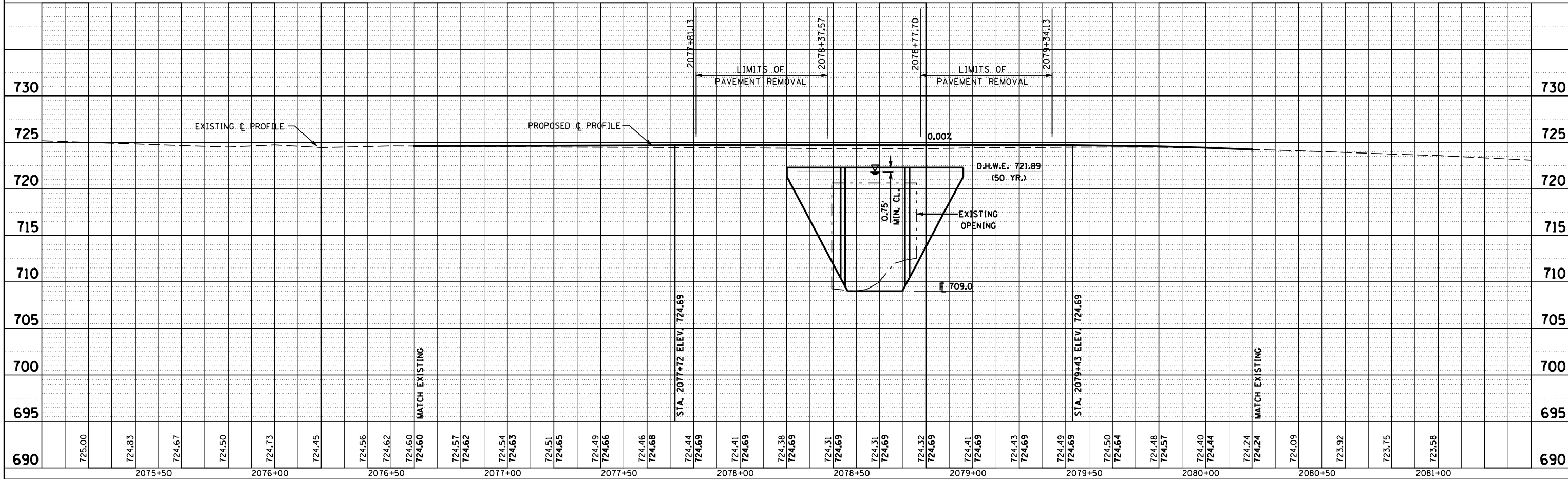
SEC. 1 T22N R8E, 3rd P.M.



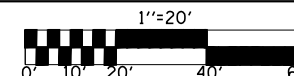
PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	

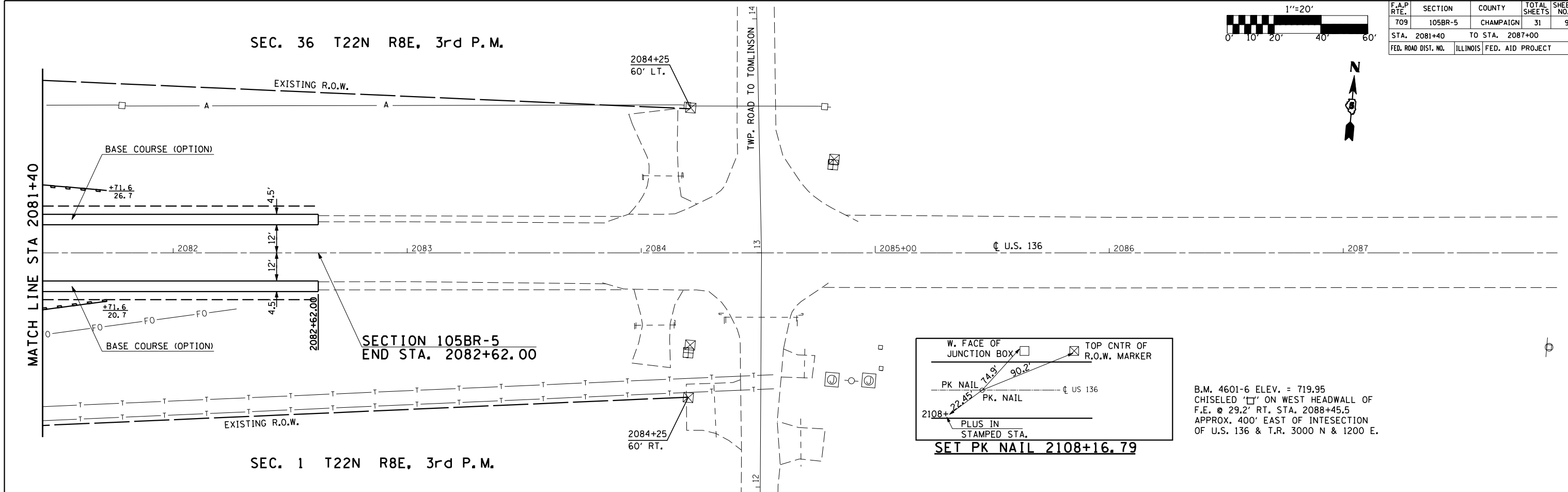
PRM0008-2 RMH 11-30-00



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	9
STA. 2081+40		TO STA. 2087+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

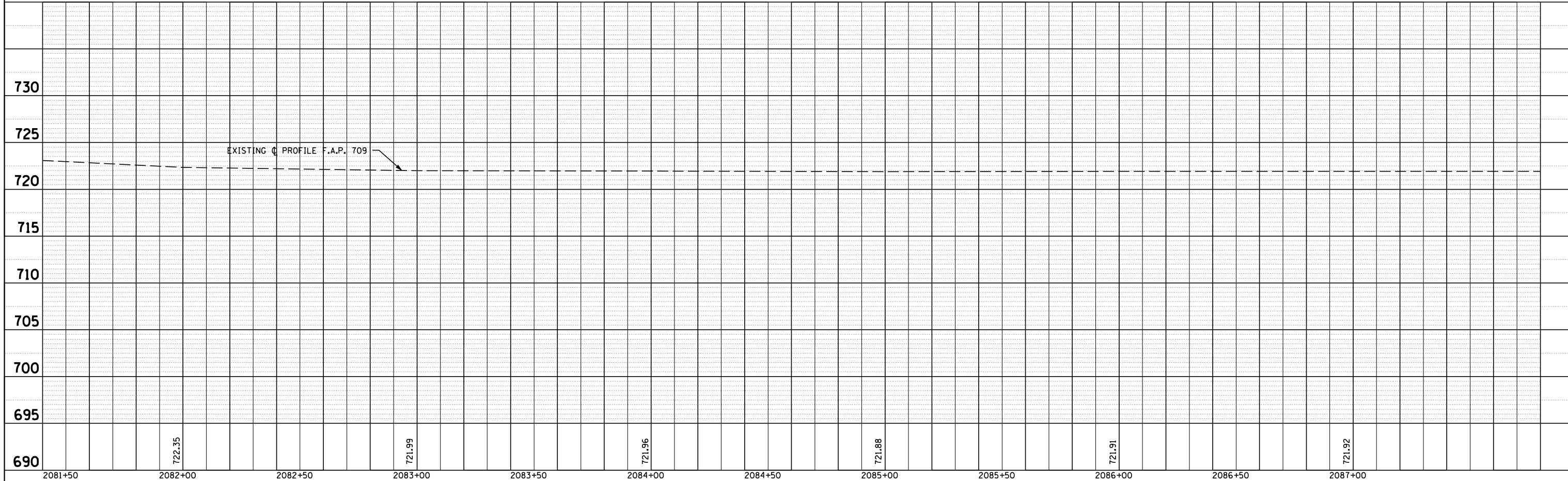


PLAN	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO. _____	
CADD FILE NAME	



B.M. 4601-6 ELEV. = 719.95
 CHISELED '□' ON WEST HEADWALL OF
 F.E. @ 29.2' RT. STA. 2088+45.5
 APPROX. 400' EAST OF INTESECTION
 OF U.S. 136 & T.R. 3000 N & 1200 E.

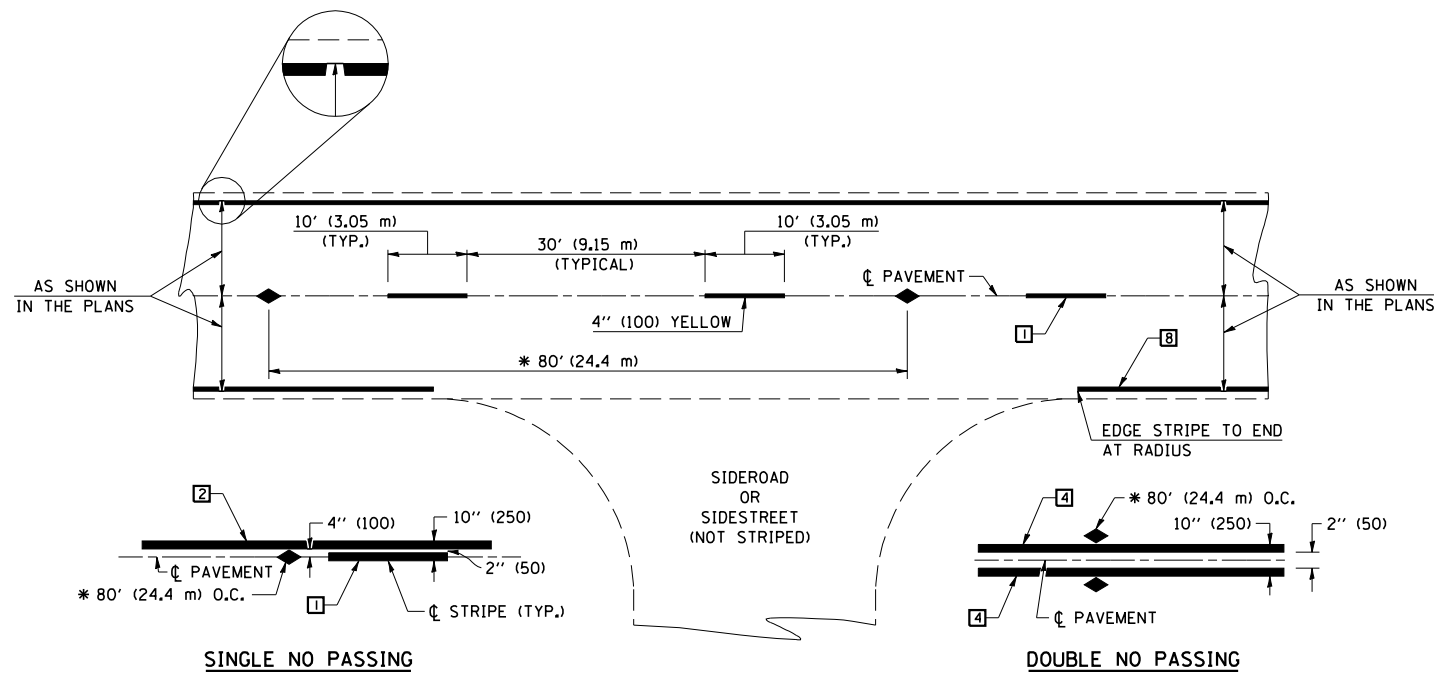
PROFILE	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO. _____	
STRUCTURE NOTATIONS CHRD	



PRFM008-3 JAN 12-05-2000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 90933				

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



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

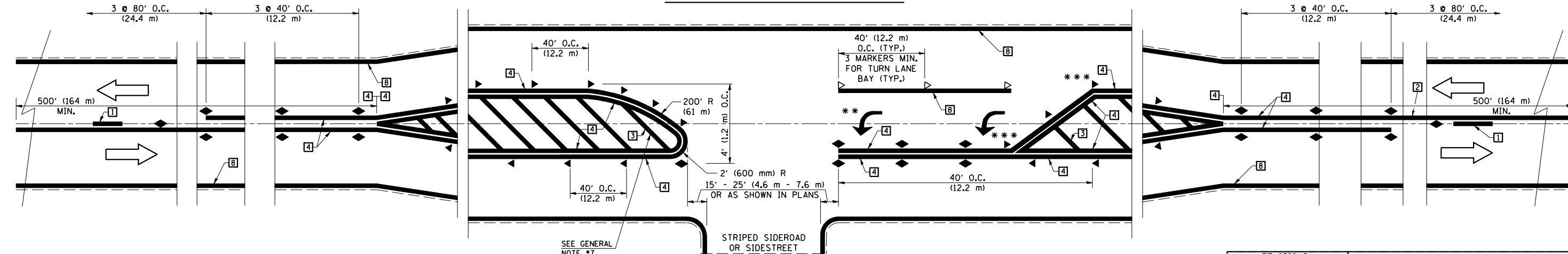
TYPICAL PAVEMENT MARKING LEGEND

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

TYPICAL PAVEMENT MARKERS LEGEND

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

DETAIL OF RURAL LEFT TURN LANE



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.
 ** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

SHEET 1 OF 3

DESIGNED	NAME	DATE	REVISIONS	DATE
J.M.H.	J.M.H.	5/85	NAME	07/02
FMS	FMS	6/85	GEOMETRICS/K.A.G.	09/05
CADD NO.	F-5.25	6/88	K.A.G.	

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

REVISIONS	
NAME	DATE

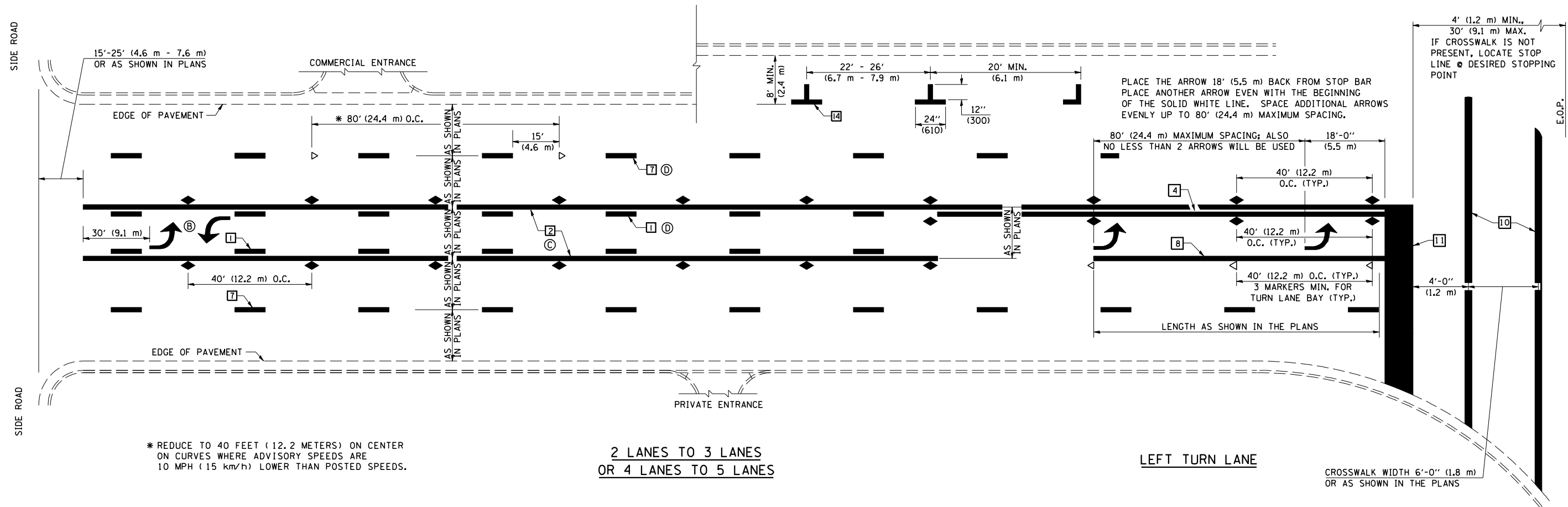
ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING DETAILS
SHEET 1 OF 3
 DATE: 01/06
 DRAWN BY: _____
 CHECKED BY: _____

PLOT DATE = 10/13/2006
 FILE NAME = c:\projects\90933\pavt marking details.dgn
 PLOT SCALE = 4.23525" / IN.
 USER NAME = kgjarb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	10A
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 90933

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



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

2 LANES TO 3 LANES
OR 4 LANES TO 5 LANES

LEFT TURN LANE

CROSSWALK WIDTH 6'-0" (1.8 m)
OR AS SHOWN IN THE PLANS

SHEET 2 OF 3

	NAME	DATE	REVISIONS
DESIGNED	J.M.H.	5/85	
CHECKED	FMS	6/85	
CADD NO.	F-5.25	6/88	
			NAME DATE
			GEOMETRICS/K.A.G. 07/02
			K.A.G. 09/05

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS SHEET 2 OF 3

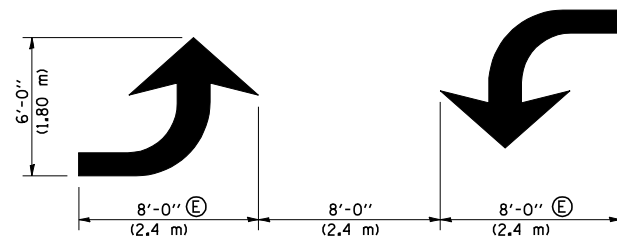
DATE: 01/06
DRAWN BY: _____
CHECKED BY: _____

PLOT DATE: 10/13/2006
 FILE NAME: c:\projects\90933\pavt marking details.dgn
 PLOT SCALE: 4.23525" / IN.
 USER NAME: kagab

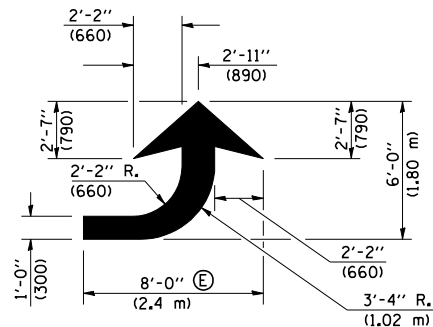
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	10B
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 90933

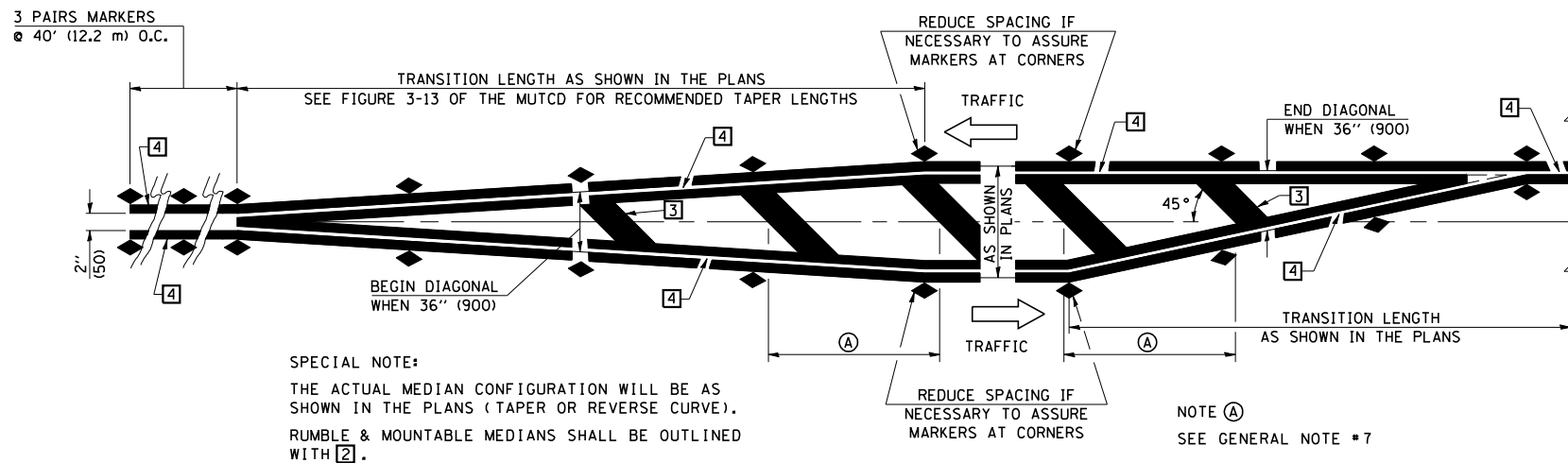
TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



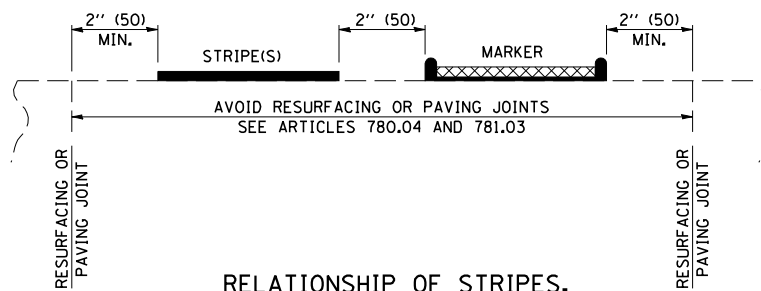
TYPICAL DOUBLE TURN ARROWS (WHITE)



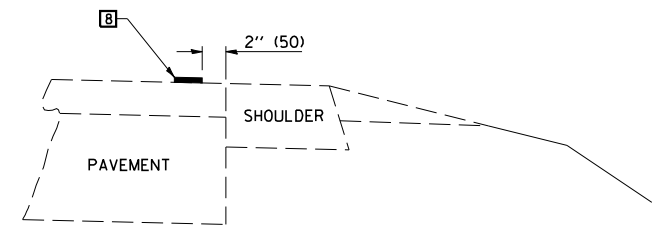
LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



TYPICAL MEDIAN TRANSITIONS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



RELATIONSHIP OF EDGE STRIPE TO SAFETY SHOULDER OR PAVED SURFACE

SPECIAL NOTES:

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

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SCALE: NONE
3. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
4. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
5. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
6. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
7. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
< 30 MPH USE 15' (< 50 km/h USE 4.5 m)
30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
> 45 MPH USE 30' (> 75 km/h USE 9.0 m)

PLOT DATE = 10/13/2006
 FILE NAME = c:\projects\90933\pavt marking detail.dgn
 PLOT SCALE = 4.23525 / IN.
 USER NAME = kgjarb

SHEET 3 OF 3

	NAME	DATE	REVISIONS
DESIGNED	J.M.H.	5/85	NAME
CHECKED	FMS	6/88	DATE
	CTD	6/88	GEOMETRICS/K.A.G.
CADD NO.	F-5.25		K.A.G.
			09/05

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

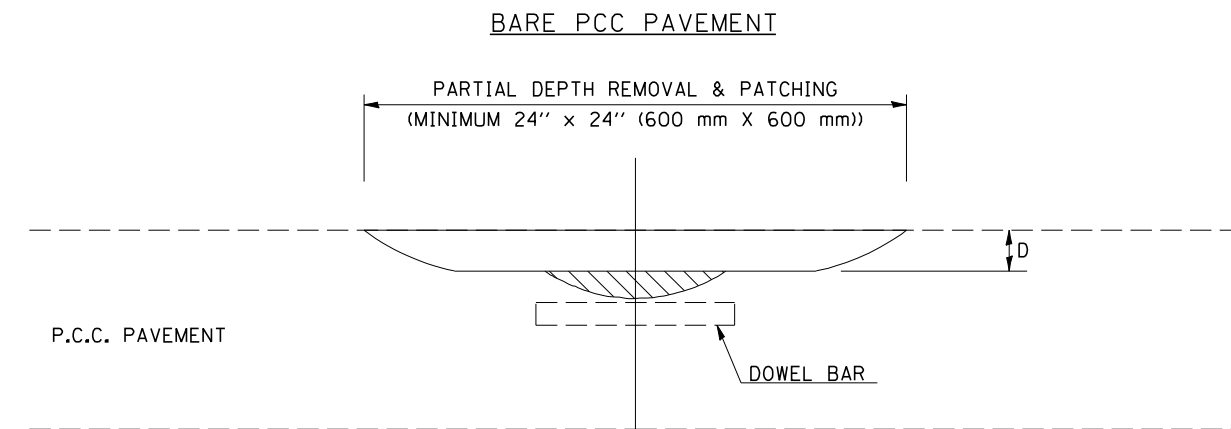
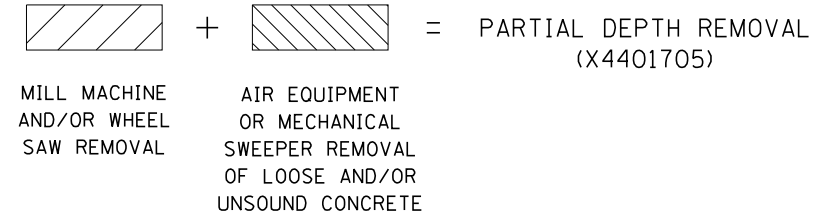
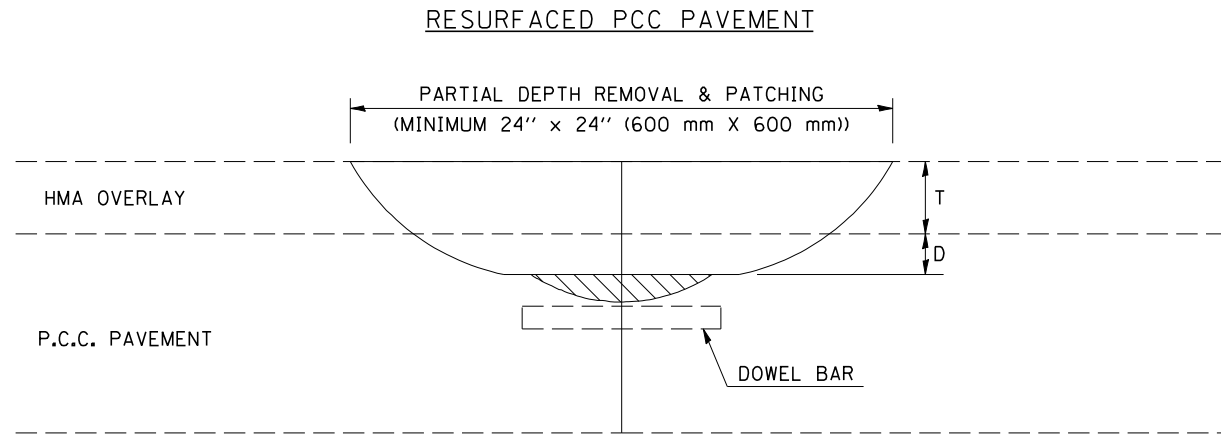
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING DETAILS
SHEET 3 OF 3

DATE: 01/06
DRAWN BY: _____
CHECKED BY: _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	10C

PCC PARTIAL DEPTH HOT-MIX ASPHALT PATCHING



GENERAL NOTES

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

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

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

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

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

TRANSVERSE CONTRACTION JOINT SHOWN - OTHER LOCATIONS SIMILAR.

PLOT DATE = 10/13/2006
 FILE NAME = c:\projects\4421000\4421000.dgn
 PLOT SCALE = 4.2353 ' / IN.
 USER NAME = kgjrb

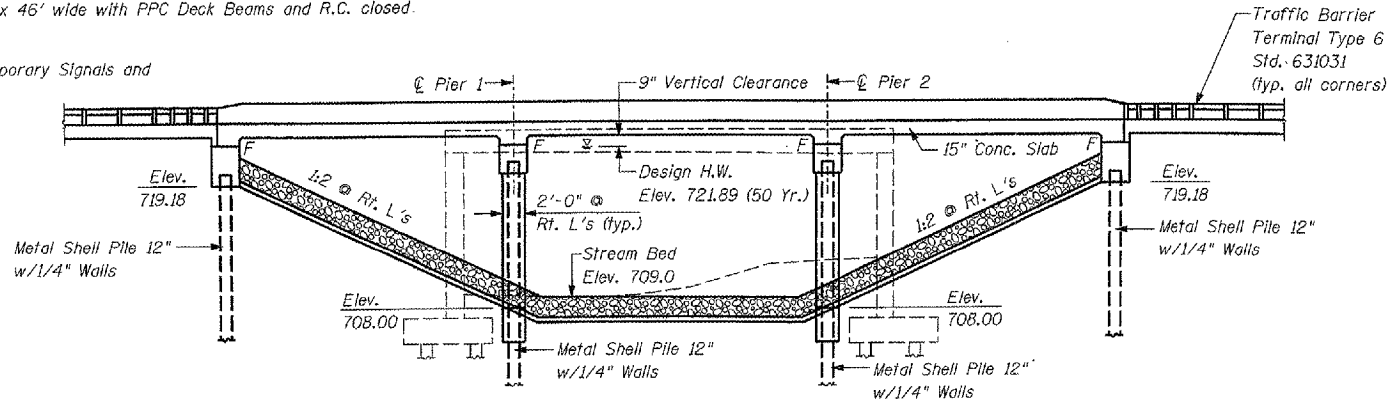
	NAME	DATE	REVISIONS	
			NAME	DATE
DESIGNED	T.J.B.	08/06		
CHECKED				
CADD NO.	X4421000			

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

BENCHMARK: 4601-6 Elev. = 719.95
 chiseled "□" on west Headwall of F.E.
 @ 29.2' RT, Sta. 2088+45.5
 Approx. 400' East of Intersection
 of U.S. 136 & T.R. 3000 N & 1200 E.
 EXISTING STRUCTURE: S.N. 010-0063 to be removed. Built in 1925 as S.A. Route 10 Section 69B-15D.
 Single span, R.C. T-Beams 40' x 26' wide with R.C. closed Abuts. on spread footings. Widened
 in 1972 as SB1 Route 119 Section 105 BY to 40' x 46' wide with PPC Deck Beams and R.C. closed
 Abuts. on spread footings.

One lane of traffic to be maintained utilizing Temporary Signals and
 Stage Construction.

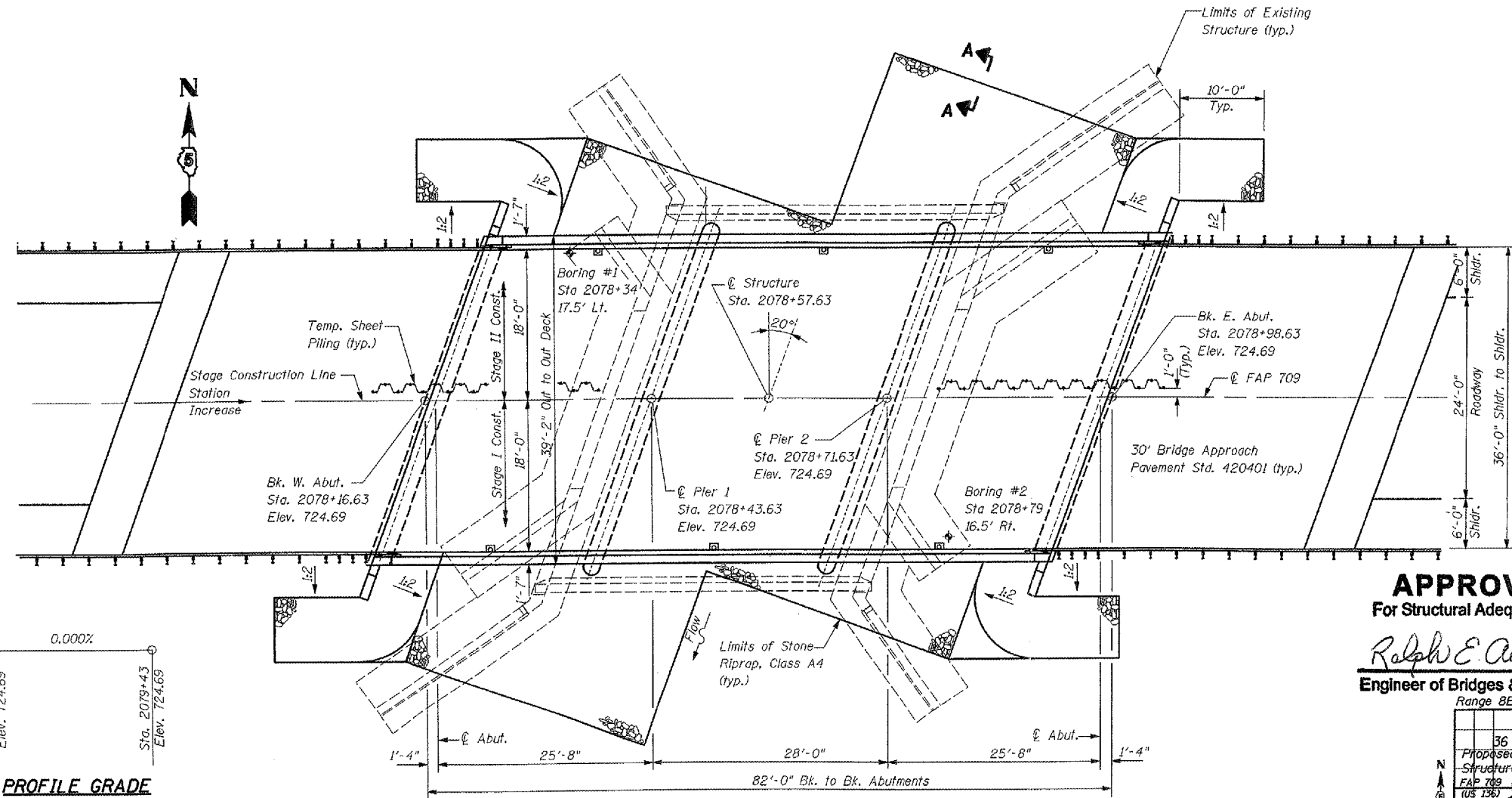
The existing aluminum hand rail shall be salvaged
 & delivered to the Districts Maintenance Yard.
 Cost included in "Removal of Existing Structures".



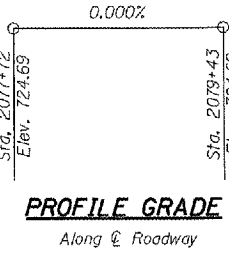
ELEVATION

STATION 2078+57.63
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 709 SEC. 105BR-5
 F.A.P. PROJ.
 LOADING HS20
 STR. NO. 010-0276

NAME PLATE
 See Std. 515001



PLAN



PROFILE GRADE
 Along ϕ Roadway

DESIGN STRESSES
 FIELD UNITS
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

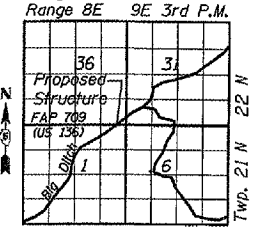
LOADING HS20-44
 Allow 50 lb./sq. ft. for future
 wearing surface.

DESIGN SPECIFICATIONS
 AASHTO 1996 with 1997, 1998,
 1999, 2000 Interims

SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.047
 Site Coefficient (S) = 1.0

APPROVED
 For Structural Adequacy Only

Ralph E. Anderson (TSJ)
 Engineer of Bridges & Structures



LOCATION SKETCH

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of false work, in addition to allowance for dead local deflection.
4. The backfill around the pier bents shall be placed after the Superstructure is in place.
5. The Contractor shall drive two test piles in a permanent location - one at the West Abut. and one at Pier 2 as directed by the Engineer before ordering the remainder of the piles.
6. For section A-A see Sheet # 2 of 11.
7. Prior to removing the existing deck the Contractor shall excavate behind the existing abutments.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Yd ³		580	580
Filler Fabric	Yd ²		580	580
Removal of Existing Structures	Each	1		1
Structure Excavation	Yd ³		92	92
Bridge Deck Grooving	Yd ²	305.8		305.8
Protective Coat	Yd ²	389.9		389.9
Concrete Structures	Yd ³		129.1	129.1
Concrete Superstructure	Yd ³	172.6		172.6
Reinforcement Bars, Epoxy Coated	Lb.	30560	11100	41660
Temporary Sheet Piling	Ft ²		998	998
Floor Drains	Each	6		6
Name Plates	Each	1		1
Furnishing Metal Shell Piles, 12 inch	Ft.		1295	1295
Driving Piles	Ft.		1295	1295
Test Pile Metal Shells	Each		2	2
Bar Splicers	Each	131	76	207
Underwater Structure Excavation Protection Location 1	Each		1	1
Underwater Structure Excavation Protection Location 2	Each		1	1
Porous Granular Embankment, (Special)	Yd ³		69	69
Pipe Underdrains for Structures, 4 inch	Ft.		112	112
Asbestos Bearing Pad Removal	Each		16	16

WATERWAY INFORMATION

Drainage Area = 17.86 Sq. Mi. Low Grade Elev. 721.88 @ Sta. 2085+00

Flood	Freq. Yr.	Q CFS	Opening Sq. Ft.		Nat. H.W.E. Ft.		Head - Ft.		Headwater Elev. - Ft.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.		
Design	50	1879.00	352.20	578.20	721.89	0.77	0.25	722.66	722.14	
Base	100	2154.00	352.20	597.70	722.18	1.00	0.32	723.18	722.50	
Overtopping	300	2657.00	352.20	-	722.67	1.47	-	724.14	-	
Max. Calc.	500	2809.00	-	605.70	722.81	-	0.51	-	723.32	



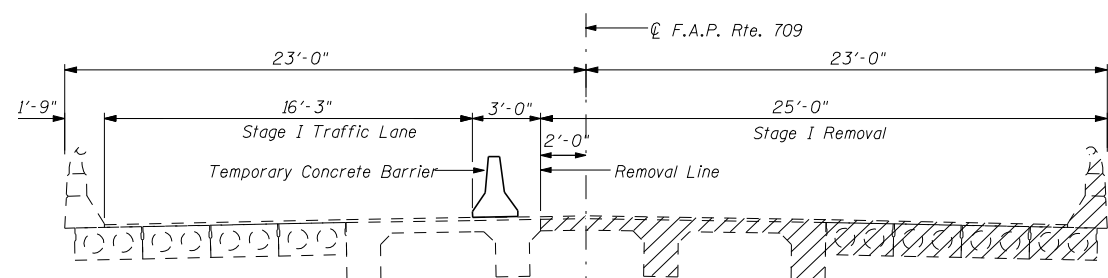
M. Silvester 11-30-06
 MARTIN J. SILVESTER
 STRUCTURAL ENGINEER
 LICENSE EXP. DATE 11-30-08

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
 US ROUTE 136 OVER BIG DITCH
 FAP RTE. 709 SECTION 105BR-5
 STA. 2078+57.63
 CHAMPAIGN COUNTY STR. NO. 010-0276
 SCALE: 1/8" = 1'-0"
 DATE 11-2001
 DRAWN BY RMH
 CHECKED BY MJS

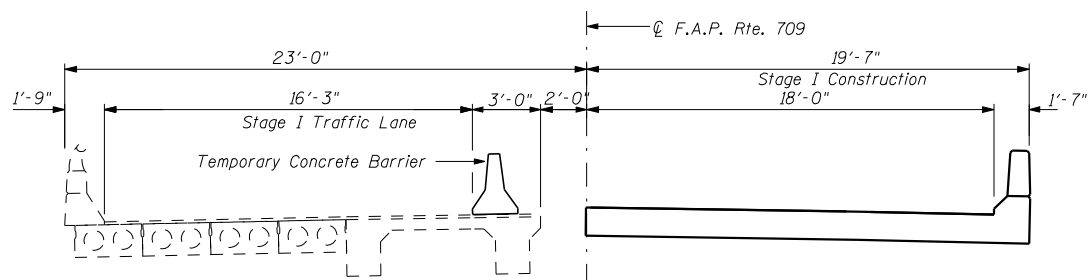
UPCHURCH AND ASSOCIATES
 1155 N. W. 17th St., Ft. Lauderdale, FL 33305
 TEL: (954) 577-8800 FAX: (954) 577-8801

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	12
STA. 2074+53	TO STA. 2082+62			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 90933			SHEET 2 OF 11 SHEETS	



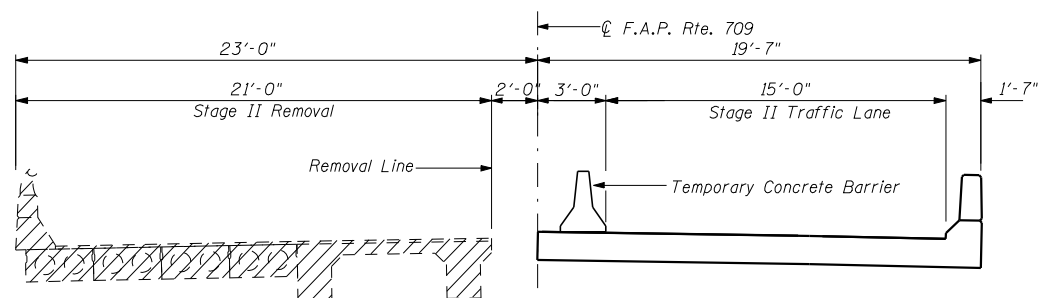
STAGE I REMOVAL

(Looking East)



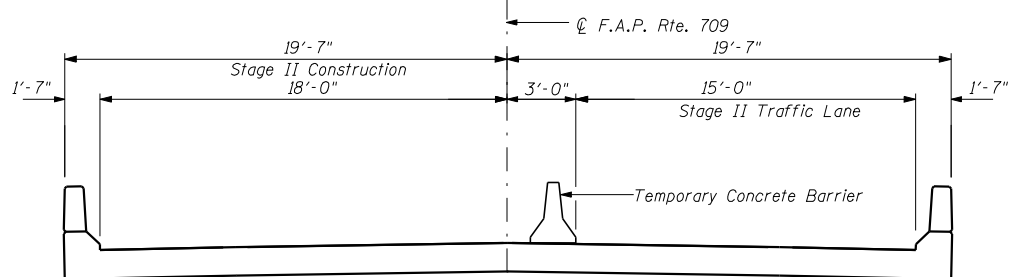
STAGE I CONSTRUCTION

(Looking East)



STAGE II REMOVAL

(Looking East)

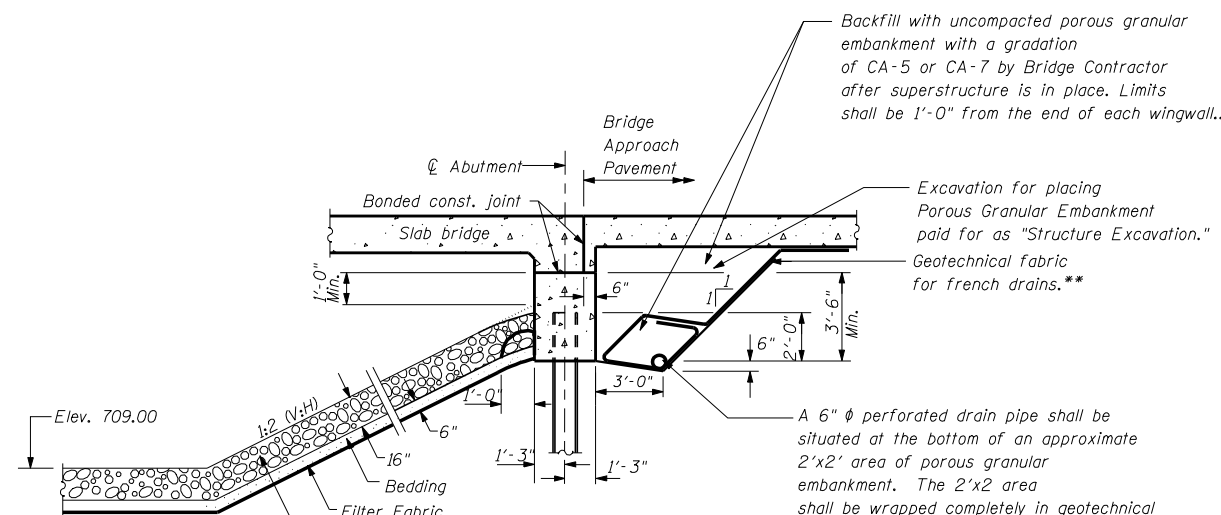


STAGE II CONSTRUCTION

(Looking East)

Notes:

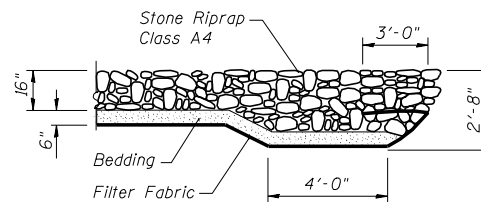
Hatched area indicate Removal of Existing Structures. For quantity of "Temporary Concrete Barrier" see Roadway Plans. For details see Sheet 9 of 11.



SECTION THRU INTEGRAL ABUTMENT

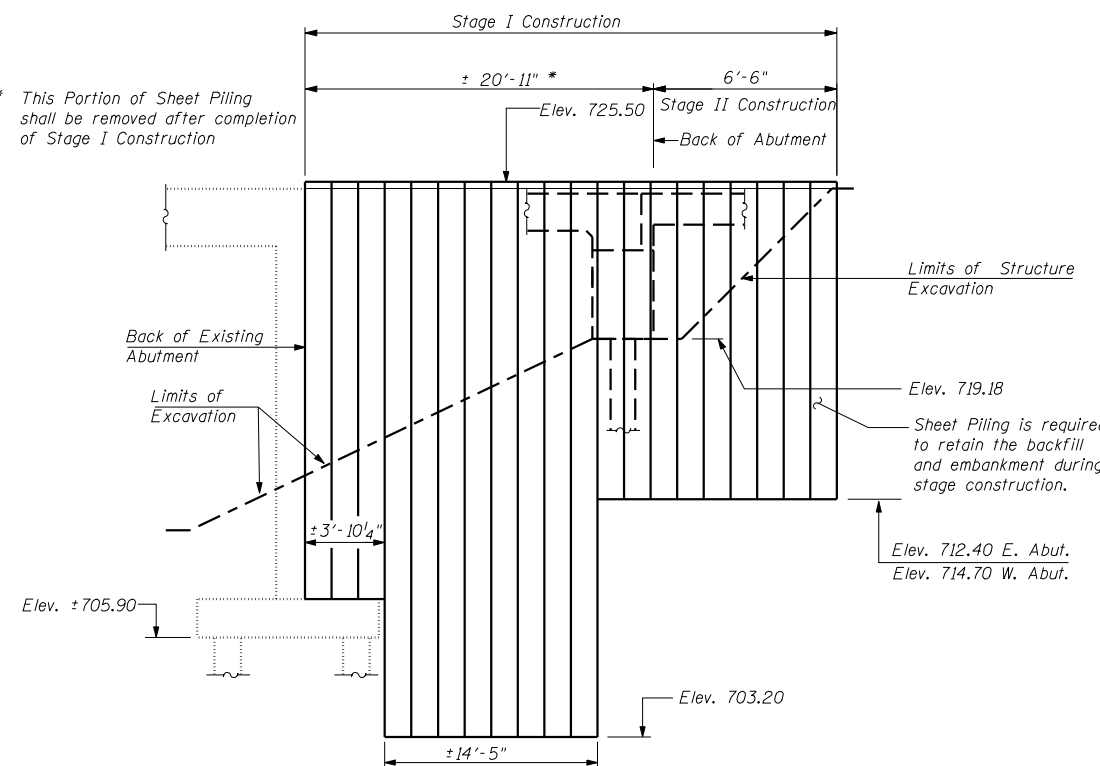
(at Rt. <'s)

** Included in the cost of "Porous Granular Embankment."



SECTION A-A

* This Portion of Sheet Piling shall be removed after completion of Stage I Construction



TEMPORARY SHEET PILING

Sheet Piling Notes:

- If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans for lesser design requirements, then full design submittals with the required seals will be expected by the Department for review and approval.
- Minimum section modulus of temporary sheet piling shall be 15.1 in³ per foot of wall.

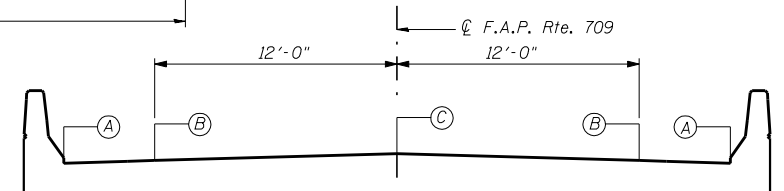
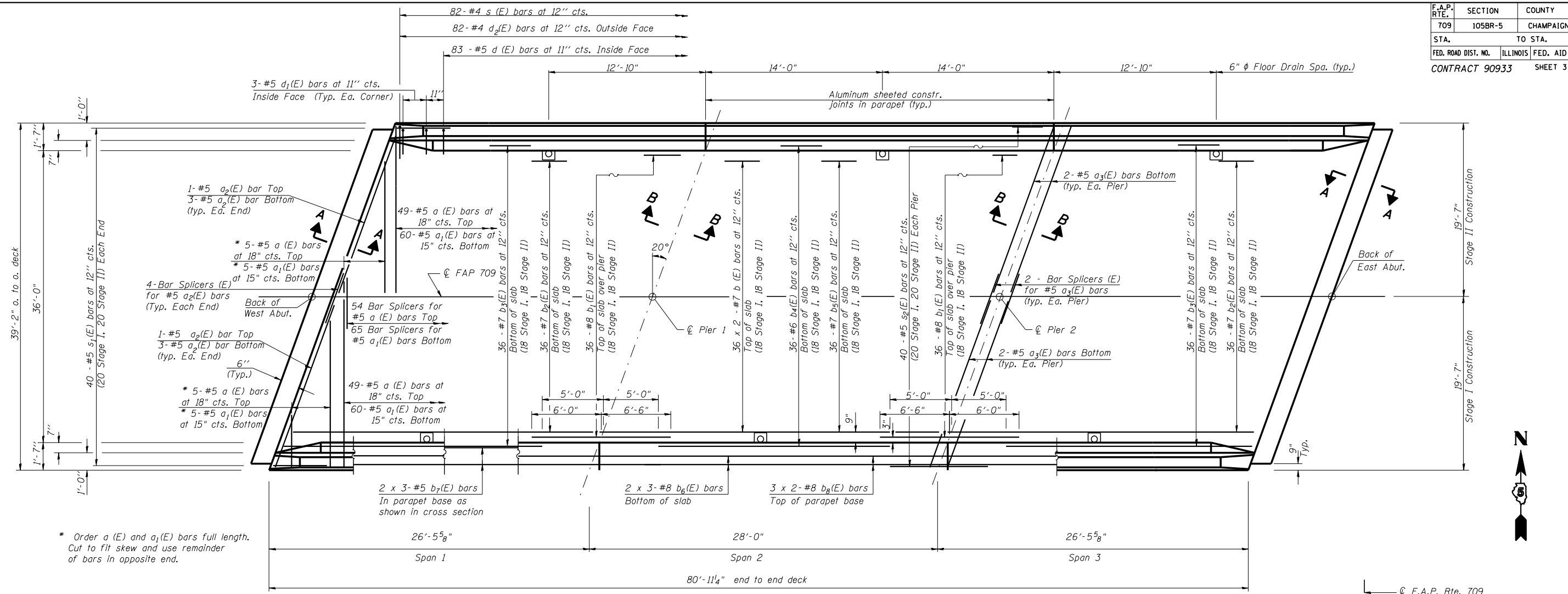
BILL OF MATERIAL

Item	Unit	Qty.
Temporary Sheet Piling	Sq. Ft.	998

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
US ROUTE 136 OVER BIG DITCH
FAP RTE. 709 SECTION 105BR-5
STA. 2078+57.63
CHAMPAIGN COUNTY STR. NO. 010-0276
 SCALE: NTS DRAWN BY LP
 DATE 11-2001 CHECKED BY MJS

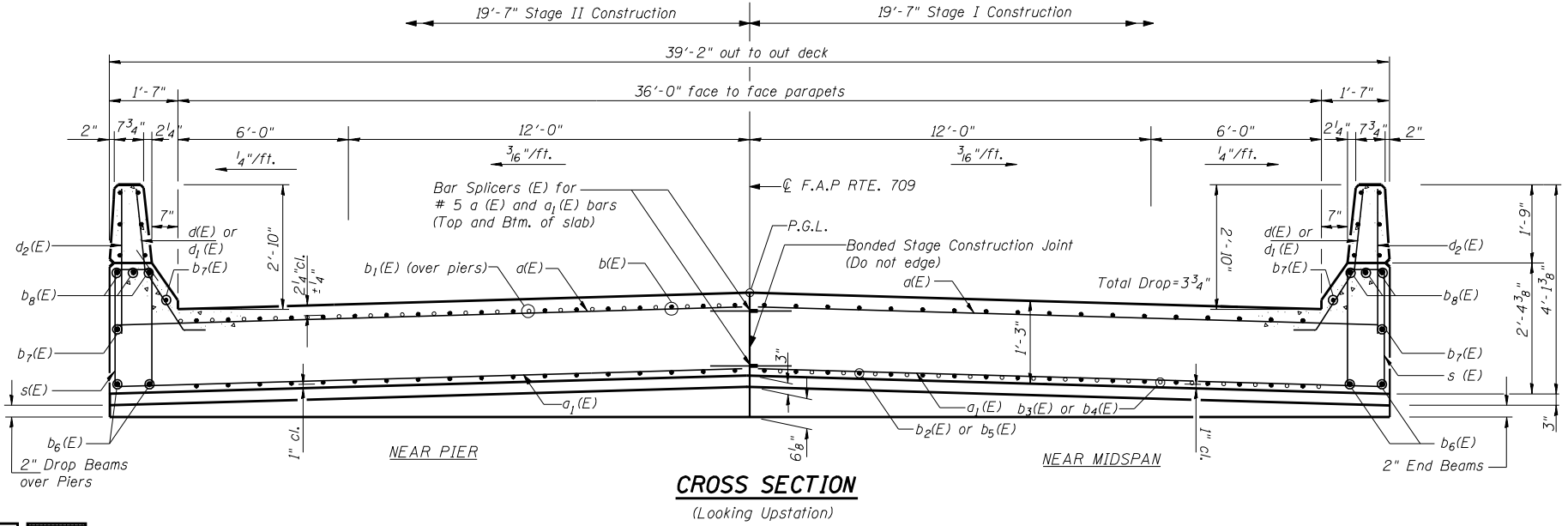
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT 90933		SHEET 3 OF 11 SHEETS		



ELEVATION	A	B	C
Sta 2078+17.16	724.38	724.50	724.69
Sta 2078+57.63	724.38	724.50	724.69
Sta 2078+98.10	724.38	724.50	724.69

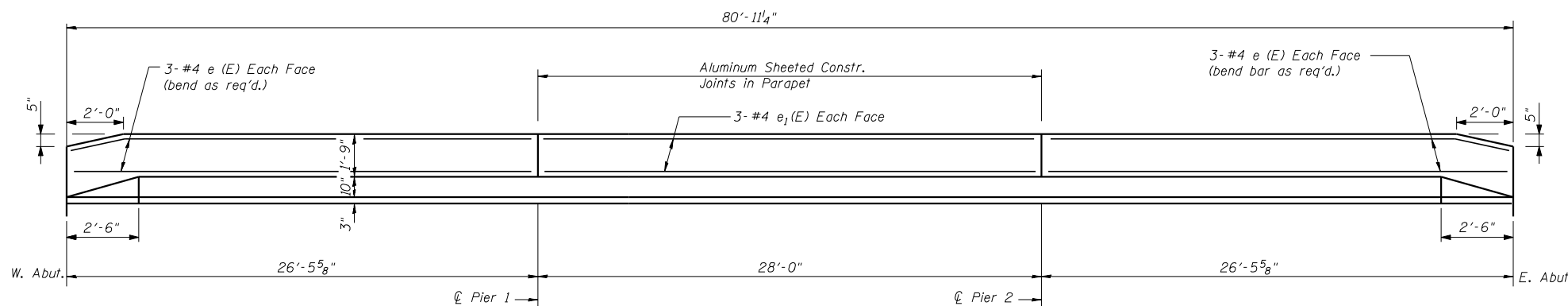
- Notes:
- See Sheet #4 of 11 for superstructure details and Bill of Material.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Bars indicated thus 2x3 -#8 etc. indicated 2 lines of bars with 3 lengths per line.
 - See Sheet # 4 of 11 for parapet reinforcement.
 - See Sheet # 8 of 11 for Bar Splicer Details.
 - See Sheet # 4 of 11 for Section A-A and Section B-B.

MIN. BAR LAP
 #5 = 2'-2"
 #7 = 2'-11"
 #8 = 3'-5"



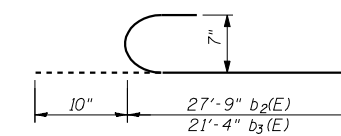
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK REINFORCEMENT
 US ROUTE 136 OVER BIG DITCH
 FAP RTE. 709 SECTION 105BR-5
 STA. 2078+57.63
 CHAMPAIGN COUNTY STR. NO. 010-0276
 SCALE: NTS DRAWN BY LP
 DATE 11-2001 CHECKED BY MJS

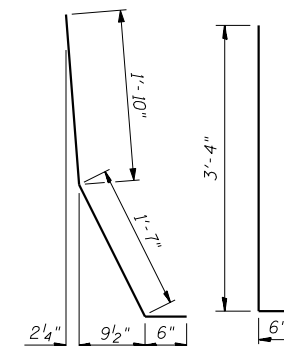


INSIDE ELEVATION OF PARAPET

[d (E), d₁ (E), and d₂ (E) see deck dwgs.]



BAR b₂(E) and b₃(E)



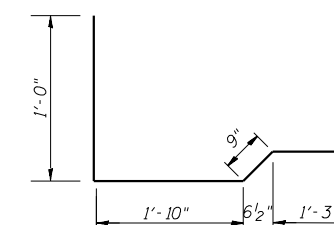
BAR d (E)

BAR d₁(E)

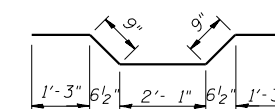
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length (Ft.)	Shape
a (E)	108	#5	19'-4"	—
a ₁ (E)	130	#5	19'-4"	—
a ₂ (E)	16	#5	20'-6"	—
a ₃ (E)	8	#5	20'-6"	—
b (E)	72	#7	41'-9"	—
b ₁ (E)	72	#8	12'-6"	—
b ₂ (E)	72	#7	28'-7"	—
b ₃ (E)	72	#7	22'-2"	—
b ₄ (E)	36	#6	18'-0"	—
b ₅ (E)	36	#7	31'-0"	—
b ₆ (E)	12	#8	29'-2"	—
b ₇ (E)	12	#5	28'-4"	—
b ₈ (E)	12	#8	42'-0"	—
d (E)	166	#5	3'-11"	—
d ₁ (E)	12	#5	3'-10"	—
d ₂ (E)	164	#4	3'-4"	—
e (E)	24	#4	26'-2"	—
e ₁ (E)	12	#4	27'-9"	—
s (E)	164	#4	6'-5"	—
s ₁ (E)	80	#5	4'-10"	—
s ₂ (E)	80	#5	6'-1"	—
Item		Unit	Qty.	
Reinforcement Bars, Epoxy Coated		Lb.	30560	
Concrete Superstructure		Yd. ³	172.6	
Floor Drains		Each	6	

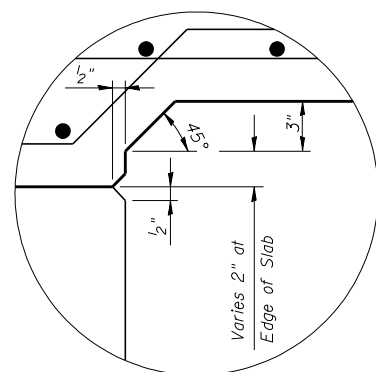
BAR s (E)



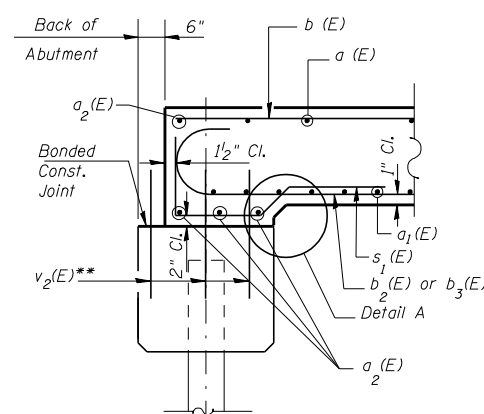
BAR s₁(E)



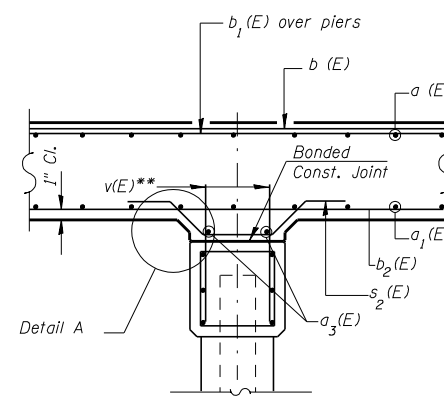
BAR s₂(E)



DETAIL A

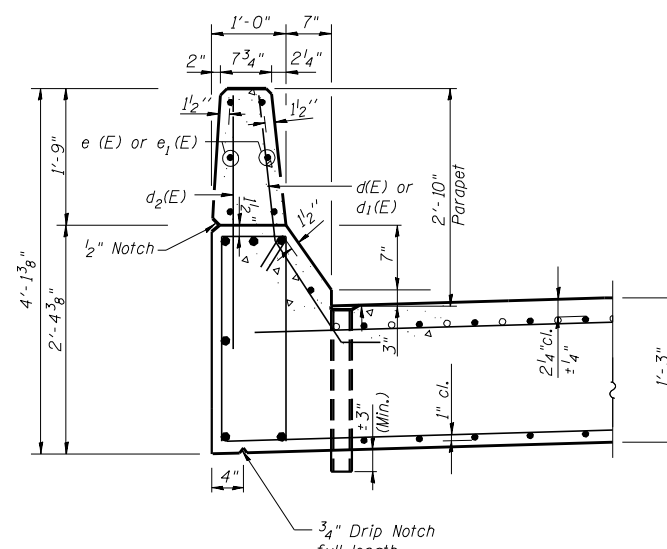


SECTION A-A



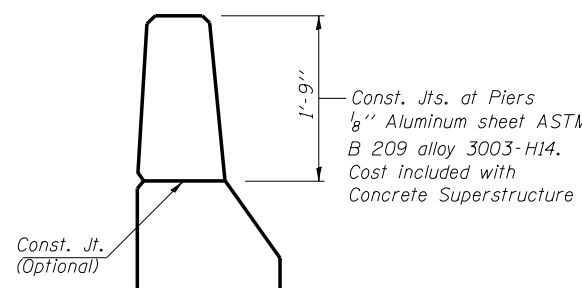
SECTION B-B

** v(E) and v₂(E) bars billed with Piers and Abutments see sheets 5 thru 7 of 11

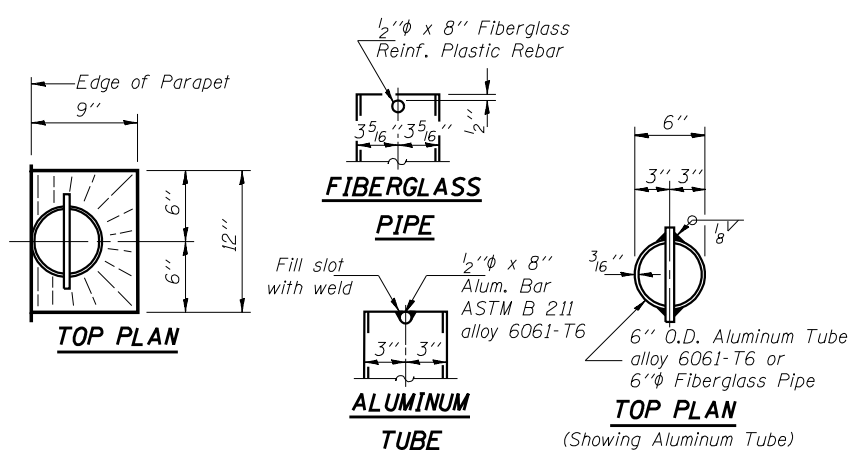


SECTION THRU PARAPET

Note: Floor Drains need not be painted



PARAPET JOINT DETAILS



TOP PLAN

FIBERGLASS PIPE

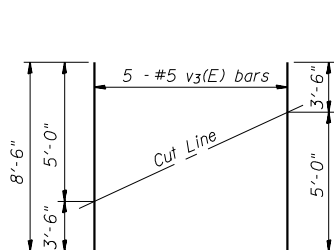
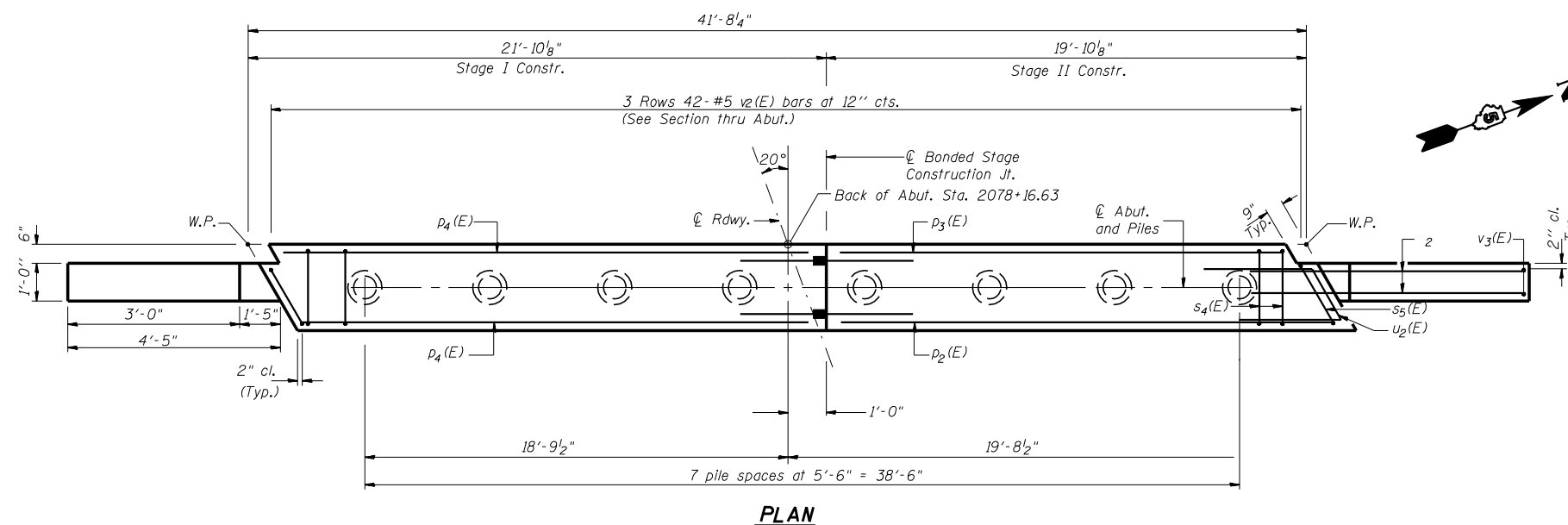
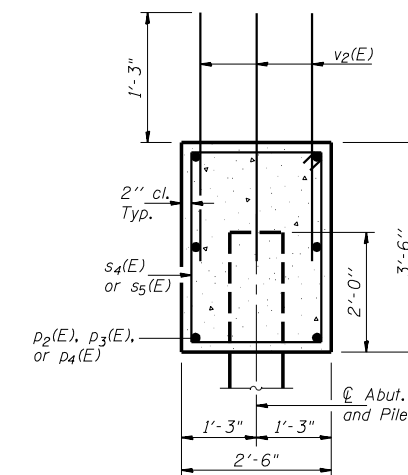
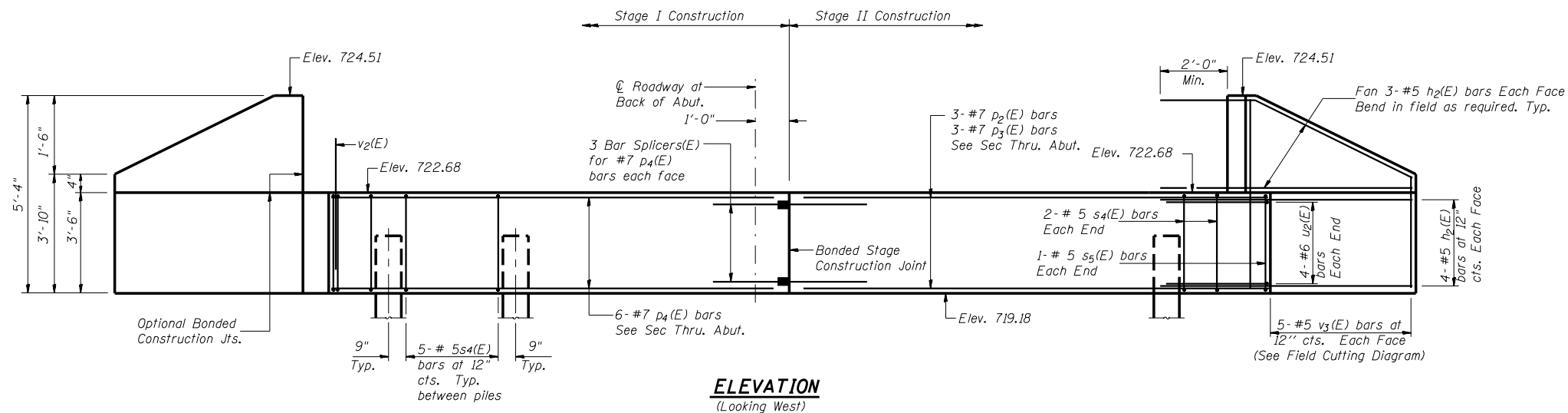
ALUMINUM TUBE

TOP PLAN

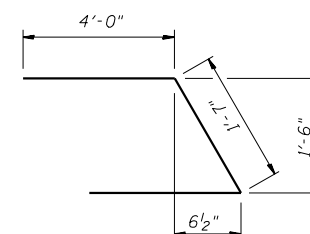
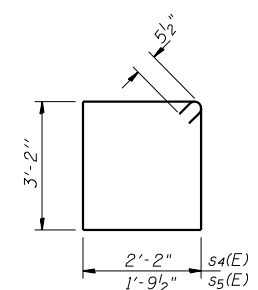
(Showing Aluminum Tube)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS
 US ROUTE 136 OVER BIG DITCH
 FAP RTE. 709 SECTION 105BR-5
 STA. 2078+57.63
 CHAMPAIGN COUNTY STR. NO. 010-0276
 SCALE: NTS DRAWN BY LP
 DATE 11-2001 CHECKED BY MJS



Order v₃(E) full length. Cut as shown and use remainder of bars in opposite face.



PILE DATA

Type	Metal Shell 12" w/1/4" Walls
No Required	7+1 Test Pile
Capacity	40 Tons
Est. Length	37 Ft.

Note: Do not overdrive Piles

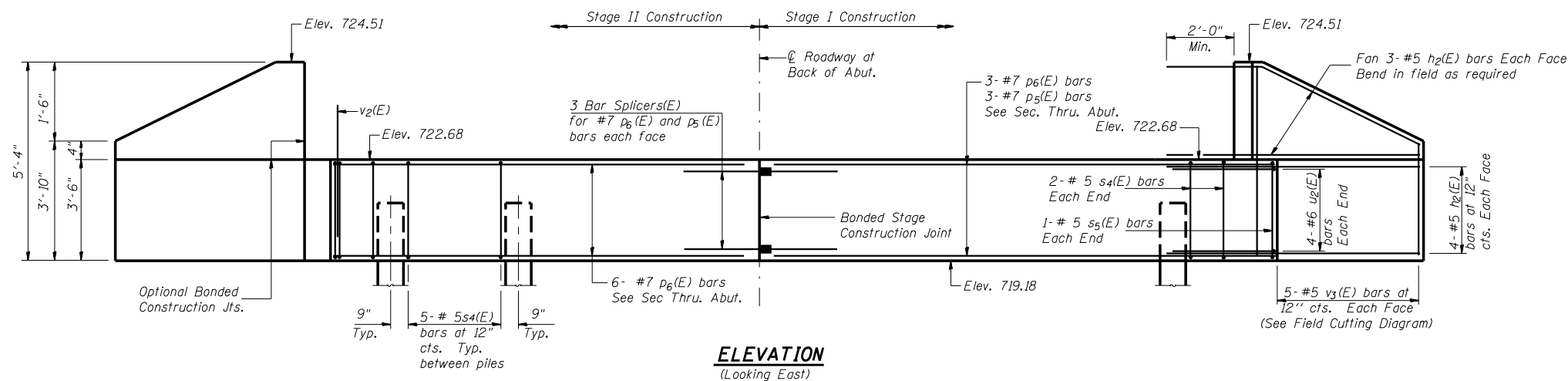
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂ (E)	28	#5	6'-2"	—
p ₂ (E)	3	#7	20'-4"	—
p ₃ (E)	3	#7	18'-9"	—
p ₄ (E)	6	#7	20'-8"	—
s ₄ (E)	39	#5	11'-7"	□
s ₅ (E)	2	#5	10'-11"	□
u ₂ (E)	8	#6	9'-8"	┌
v ₂ (E)	126	#5	3'-0"	—
v ₃ (E)	10	#5	8'-6"	—
Item	Unit	Oty.		
Concrete Structures	Cu. Yd.	14.9		
Reinforcement Bars Epoxy Coated	Pound	1766		
Structure Excavation	Cu. Yd.	46		
Furnishing Metal Pile Shells 12"	Foot	259		
Driving and Filling Shells	Foot	259		
Test Pile Metal Shells	Each	1		

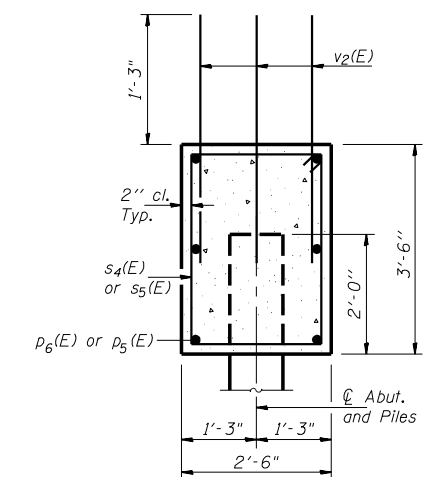
Notes:
Reinforcement Bars designated (E) shall be epoxy coated.

REVISIONS	
NAME	DATE

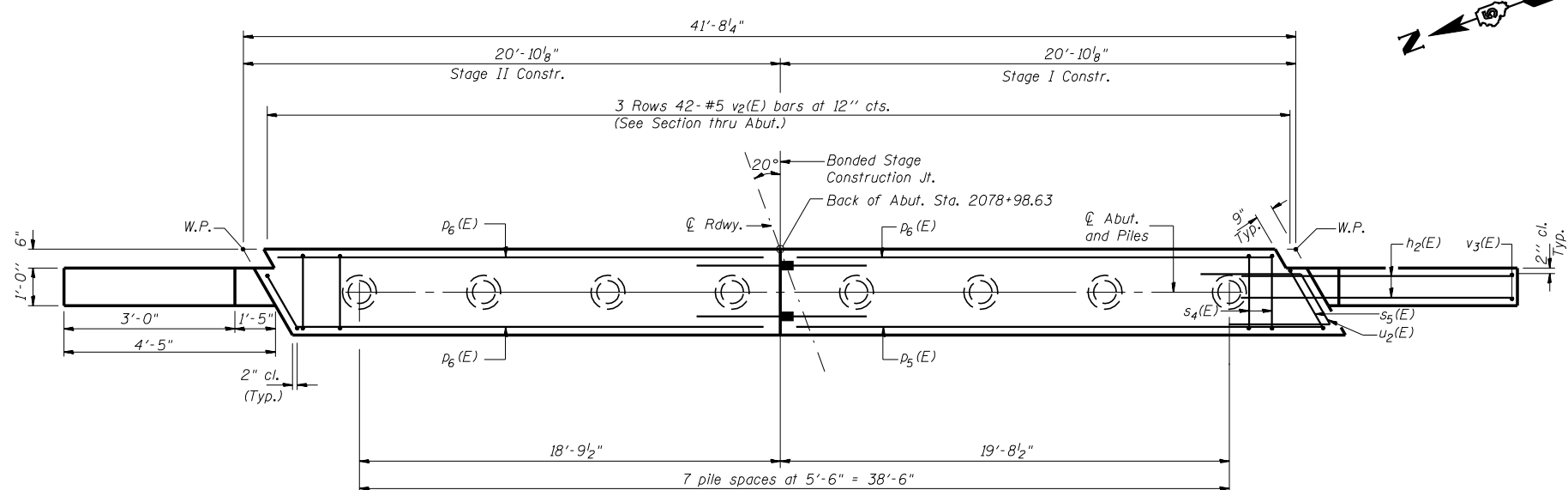
ILLINOIS DEPARTMENT OF TRANSPORTATION
WEST ABUTMENT DETAILS
 US ROUTE 136 OVER BIG DITCH
 FAP RTE. 709 SECTION 105BR-5
 STA. 2078+57.63
 CHAMPAIGN COUNTY STR. NO. 010-0276
 SCALE: NTS DRAWN BY LP
 DATE 11-2001 CHECKED BY MJS



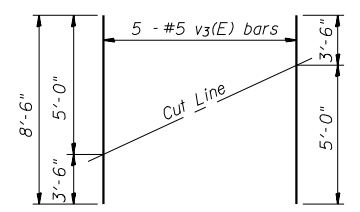
ELEVATION
(Looking East)



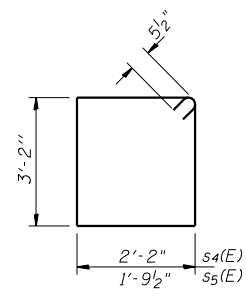
SECTION THRU ABUT.
(at Rt. < 's)



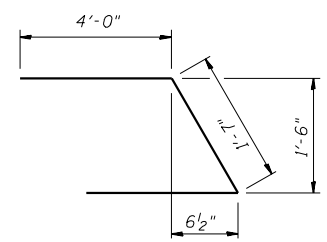
PLAN



FIELD CUTTING DIAGRAM
Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s4(E) & s5(E)



BAR u2(E)

PILE DATA

Type	Metal Shell 12" w/1/4" Walls
No Required	8
Capacity	40 Tons
Est. Length E. Abut.	32 Ft.

Note: Do not overdrive Piles

BILL OF MATERIAL

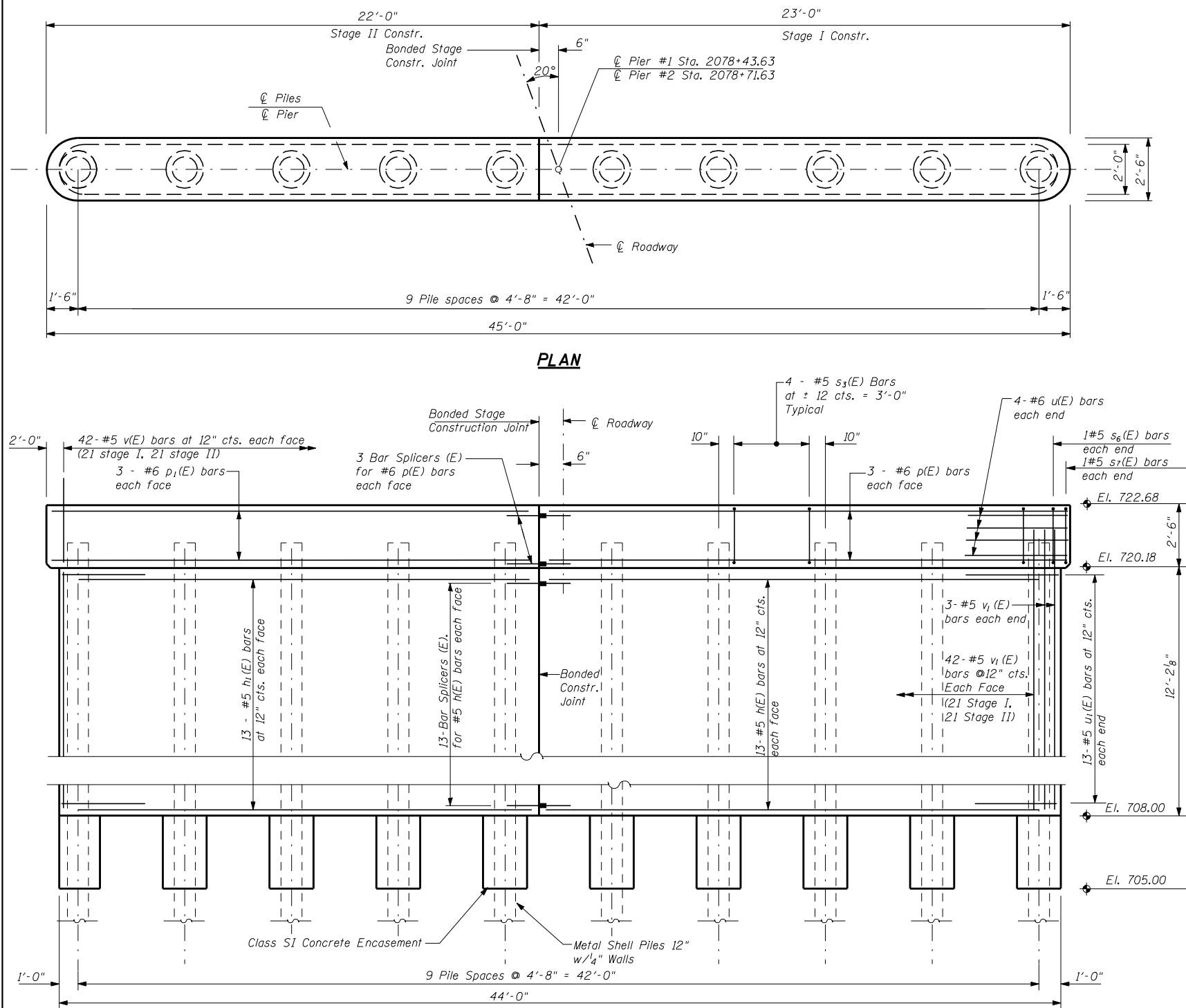
Bar	No.	Size	Length	Shape
h2(E)	28	#5	6'-2"	—
p5(E)	3	#7	21'-6"	—
p6(E)	9	#7	19'-8"	—
s4(E)	39	#5	11'-7"	□
s5(E)	2	#5	10'-11"	□
u2(E)	8	#6	9'-8"	∩
v2(E)	126	#5	3'-0"	—
v3(E)	10	#5	8'-6"	—
Item		Unit	Oty.	
Concrete Structures		Cu. Yd.	14.9	
Reinforcement Bars Epoxy Coated		Pound	1767	
Structure Excavation		Cu. Yd.	46	
Furnishing Metal Pile Shells 12"		Foot	256	
Driving and Filling Shells		Foot	256	

Notes:
Reinforcement Bars designated (E) shall be epoxy coated.

REVISIONS	
NAME	DATE

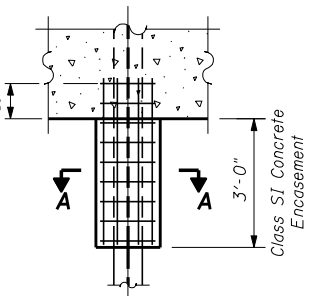
ILLINOIS DEPARTMENT OF TRANSPORTATION
EAST ABUTMENT DETAILS
US ROUTE 136 OVER BIG DITCH
FAP RTE. 709 SECTION 105BR-5
STA. 2078+57.63
CHAMPAIGN COUNTY STR. NO. 010-0276
 SCALE: NTS
 DATE 11-2001
 DRAWN BY LP
 CHECKED BY MJS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	17
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 90933	SHEET 7 OF 11 SHEETS			

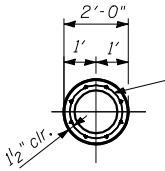


PLAN

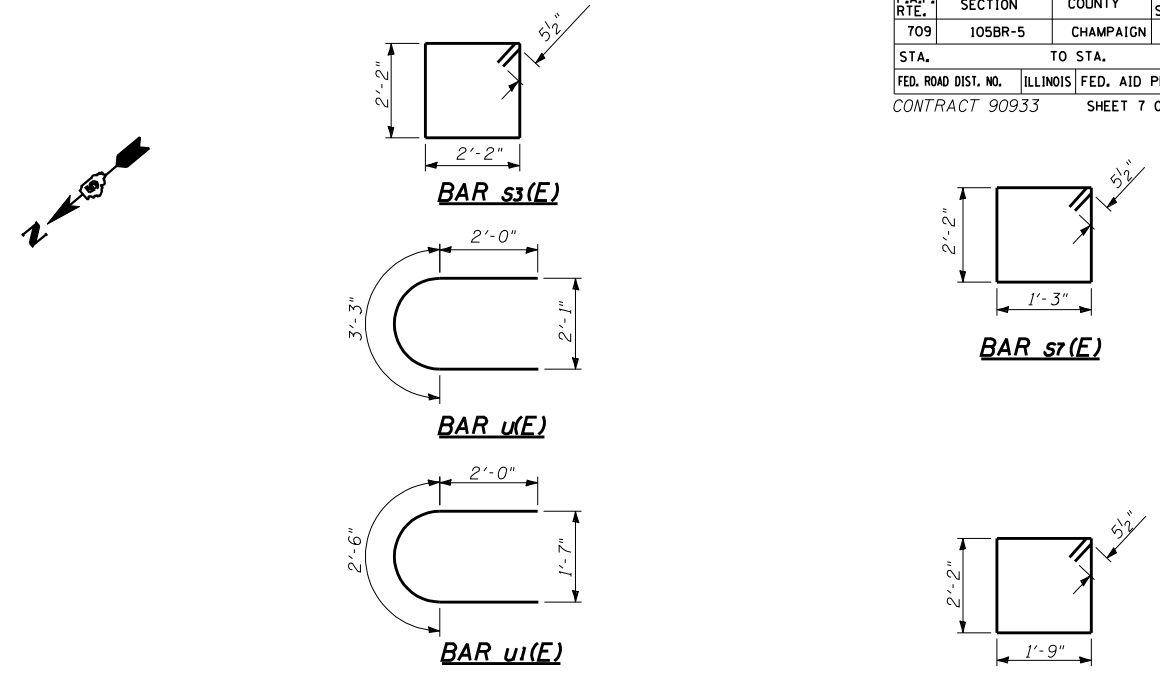
ELEVATION
(Looking East)



PILE ENCASUREMENT DETAIL



SECTION A-A



PILE DATA

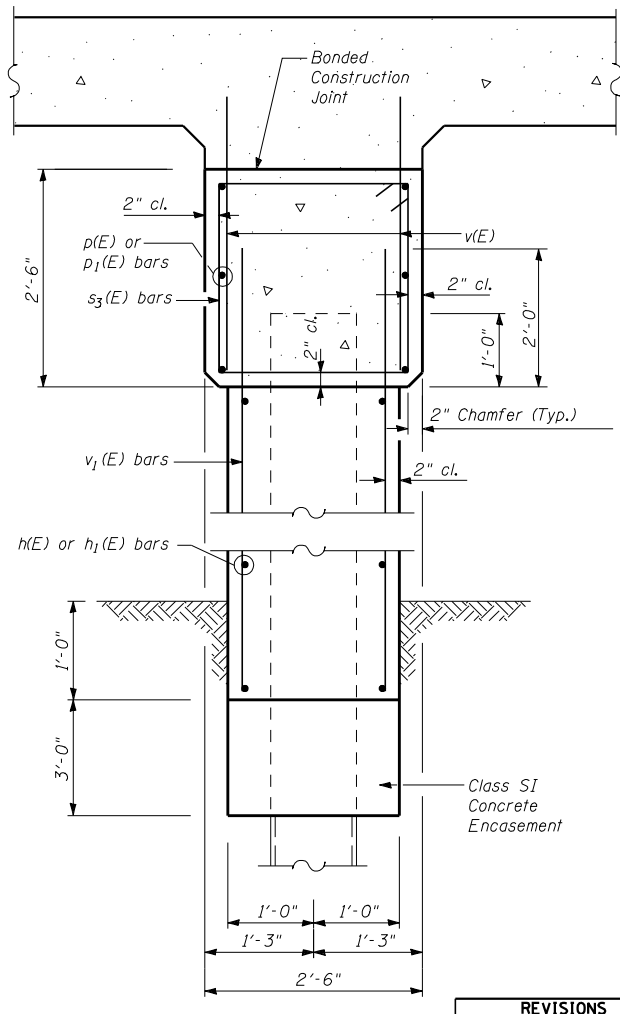
Type	Metal Shell 12" w/4" walls
No. Required	10 @ Pier 1 9+1 Test Pile @ Pier 2
Capacity	40 Tons *
Est. Length Pier 1	42 Ft.
Est. Length Pier 2	40 Ft.
* Drive to 50 Ton. Bearing	

Note: Do not overdrive Piles

BILL OF MATERIAL

BOTH PIERS				
Bar	No.	Size	Length	Shape
h(E)	52	#5	21'-4"	—
h1(E)	52	#5	20'-4"	—
p(E)	12	#6	21'-4"	—
p1(E)	12	#6	20'-4"	—
s3(E)	72	#5	9'-7"	□
s6(E)	4	#5	8'-9"	□
s7(E)	4	#5	7'-9"	□
u(E)	16	#6	7'-3"	U
u1(E)	52	#5	6'-6"	U
v(E)	168	#5	3'-6"	—
v1(E)	180	#5	14'-0"	—
Concrete Structures		Cu.Yd.	99.3	
Reinforcement Bars		Lbs.	7568	
Furnishing Metal Pile Shells, 12"		Ft.	780	
Driving and Filling Shells		Ft.	780	
Test Pile Metal Shells		Each	1	
Underwater Structure Excavation Protection Location 1		Each	1	
Underwater Structure Excavation Protection Location 2		Each	1	

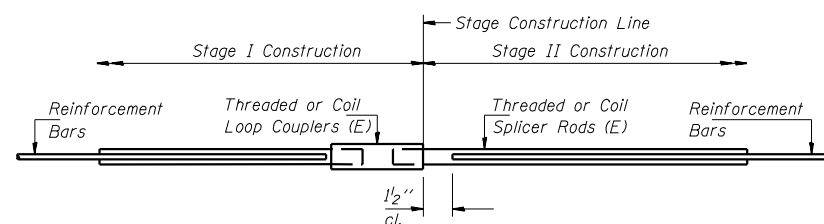
Reinforcement bars designated (E) shall be Epoxy coated.



SECTION THRU PIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER DETAILS
 US ROUTE 136 OVER BIG DITCH
 FAP RTE. 709 SECTION 105BR-5
 STA. 2078+57.63
 CHAMPAIGN COUNTY STR. NO. 010-0276
 SCALE: NTS DRAWN BY LP
 DATE 11- 2001 CHECKED BY MJS

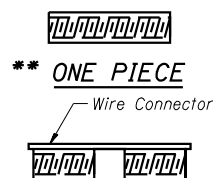


SPLICER DETAIL

Bar Size	No. Assemblies Required	Location
#5	131	Deck
#5	52	Piers
#6	12	Piers
#7	12	Abutments

The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR

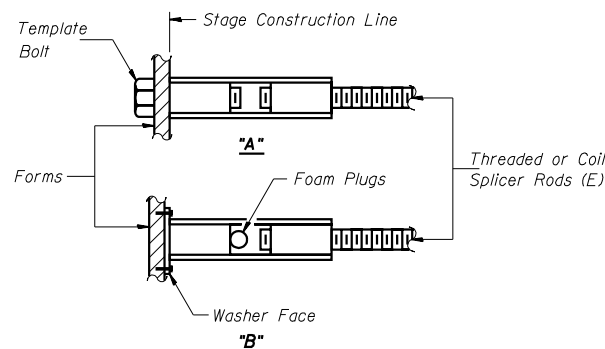


**** ONE PIECE**

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.

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) = $1.25 \times f_{sallow} \times A_t$

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

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#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

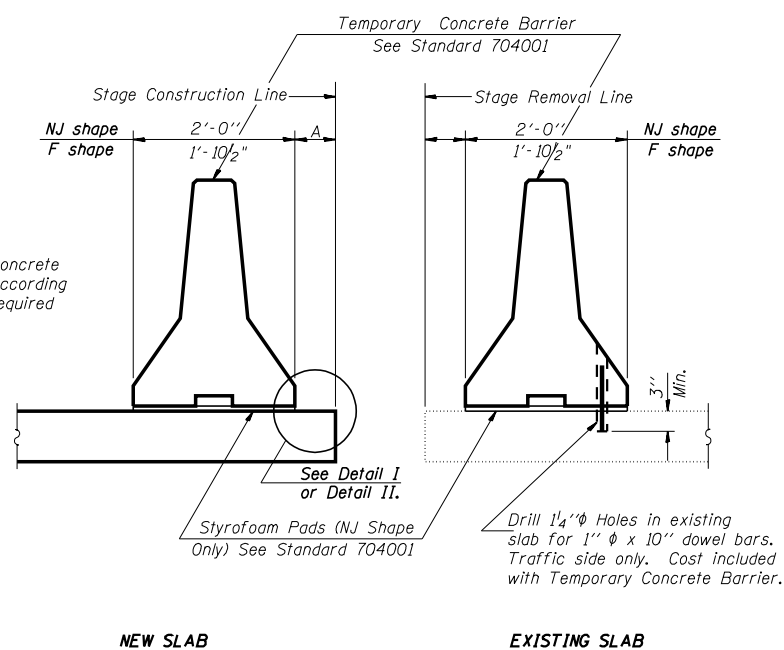
Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

REVISIONS	
NAME	DATE

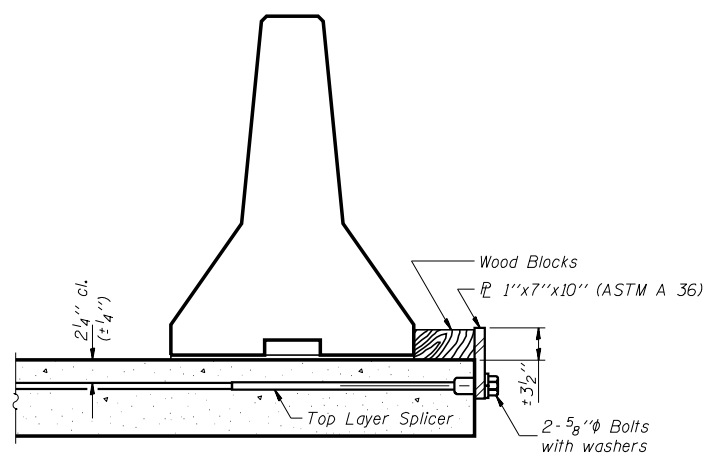
ILLINOIS DEPARTMENT OF TRANSPORTATION
BAR SPLICER
 US ROUTE 136 OVER BIG DITCH
 FAP RTE. 709 SECTION 105BR-5
 STA. 2078+57.63
 CHAMPAIGN COUNTY STR. NO. 010-0276
 SCALE: NTS
 DATE 11-2001
 DRAWN BY LP
 CHECKED BY MJS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 90933		SHEET 9 OF 11 SHEETS		

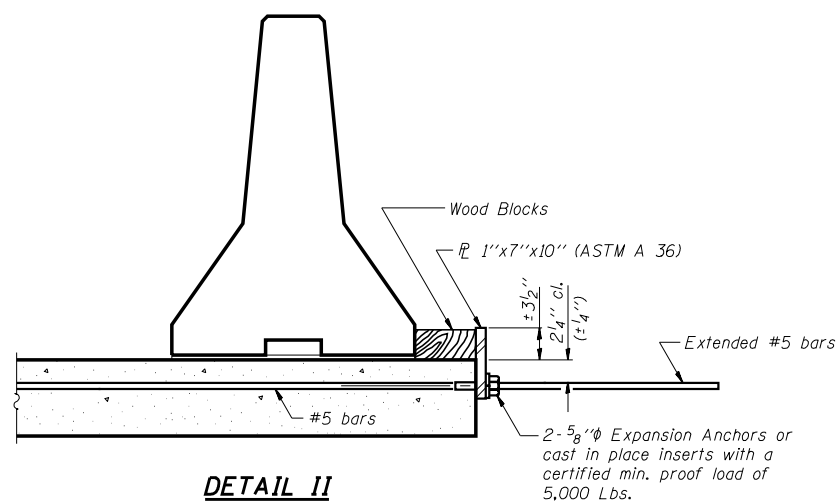
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB

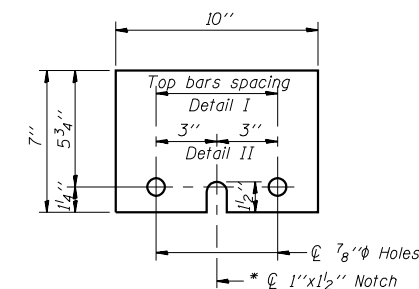


DETAIL I
The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



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.

NOTES
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" 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 2-5/8" 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.



1" x 7" x 10"
* Required only with Detail II

REVISIONS	
NAME	DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	21
STA. 2074+53		TO STA. 2082+62		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT 90933		SHEET 11 OF 11 SHEETS		

ROUTE FAP 709 (US 136) DESCRIPTION 2.5 MI E OF DEWEY LOGGED BY KWW
SECTION 105BR-5 LOCATION SE 1/4 SEC. 36, TWP. 22N, RNG. 8E, 3rd PM
COUNTY CHAMPAIGN DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO. 010-0063
Station 2078+57.6

BORING NO. 1 W ABUT
Station 2078+34
Offset 17.50 ft LT
Ground Surface Elev. 723.81 ft

DEPTH (ft)	SOIL TYPE	MOISTURE (%)	SP. GRAV. (G/G)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNSAT. W. CAP. (%)	SHRINKAGE (%)
0-14	GRAY SANDY CLAY LOAM TILL (continued)							
14-18.0	MIXED DARK BROWN CLAY LOAM BACKFILL		1.2	18.0				
18.0-19.9			1.0	15.9				
19.9-26.0	MIXED BROWN GRAY SANDY CLAY LOAM BACKFILL		1.0	16.5				
26.0-27.0	BROWN GRAY CLAY LOAM		1.0	26.0				
27.0-27.5	GRAY SANDY CLAY LOAM TILL		2.0	13.3				
27.5-38.0	GRAY SANDY CLAY LOAM TILL		4.3	11.2				

ROUTE FAP 709 (US 136) DESCRIPTION 2.5 MI E OF DEWEY LOGGED BY KWW
SECTION 105BR-5 LOCATION SE 1/4 SEC. 36, TWP. 22N, RNG. 8E, 3rd PM
COUNTY CHAMPAIGN DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO. 010-0063
Station 2078+57.6

BORING NO. 2 E ABUT
Station 2078+79
Offset 16.50 ft RT
Ground Surface Elev. 723.81 ft

DEPTH (ft)	SOIL TYPE	MOISTURE (%)	SP. GRAV. (G/G)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNSAT. W. CAP. (%)	SHRINKAGE (%)
0-24	COARSE GRAY SAND		5.4	11.2				
24-26	GRAY SANDY CLAY LOAM TILL		3.3	12.0				
26-28			0.5	15.4				
28-30			0.5	21.9				
30-34			0.9	22.7				
34-35			-	17.9				
35-38	GRAY LOAM		3.0	20.2				
38-40	DRILLED THROUGH BOULDER 16'-17'		-	-				

ROUTE FAP 709 (US 136) DESCRIPTION 2.5 MI E OF DEWEY LOGGED BY KWW
SECTION 105BR-5 LOCATION SE 1/4 SEC. 36, TWP. 22N, RNG. 8E, 3rd PM
COUNTY CHAMPAIGN DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO. 010-0063
Station 2078+57.6

BORING NO. 1 W ABUT
Station 2078+34
Offset 17.50 ft LT
Ground Surface Elev. 723.81 ft

DEPTH (ft)	SOIL TYPE	MOISTURE (%)	SP. GRAV. (G/G)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNSAT. W. CAP. (%)	SHRINKAGE (%)
0-24	GRAY SANDY CLAY LOAM TILL (continued)		8.2	-				
24-35			7.0	8.1				
35-45			6.0	22.0				
45-50	GRAY SILT AND FINE SAND LENS		-	-				

ROUTE FAP 709 (US 136) DESCRIPTION 2.5 MI E OF DEWEY LOGGED BY KWW
SECTION 105BR-5 LOCATION SE 1/4 SEC. 36, TWP. 22N, RNG. 8E, 3rd PM
COUNTY CHAMPAIGN DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO. 010-0063
Station 2078+57.6

BORING NO. 2 E ABUT
Station 2078+79
Offset 16.50 ft RT
Ground Surface Elev. 723.81 ft

DEPTH (ft)	SOIL TYPE	MOISTURE (%)	SP. GRAV. (G/G)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNSAT. W. CAP. (%)	SHRINKAGE (%)
0-18	GRAY SANDY CLAY LOAM TILL (continued)		5.8	9.9				
18-21			6.6	8.7				
21-50	End of Boring		-	-				



REVISIONS	
NAME	DATE

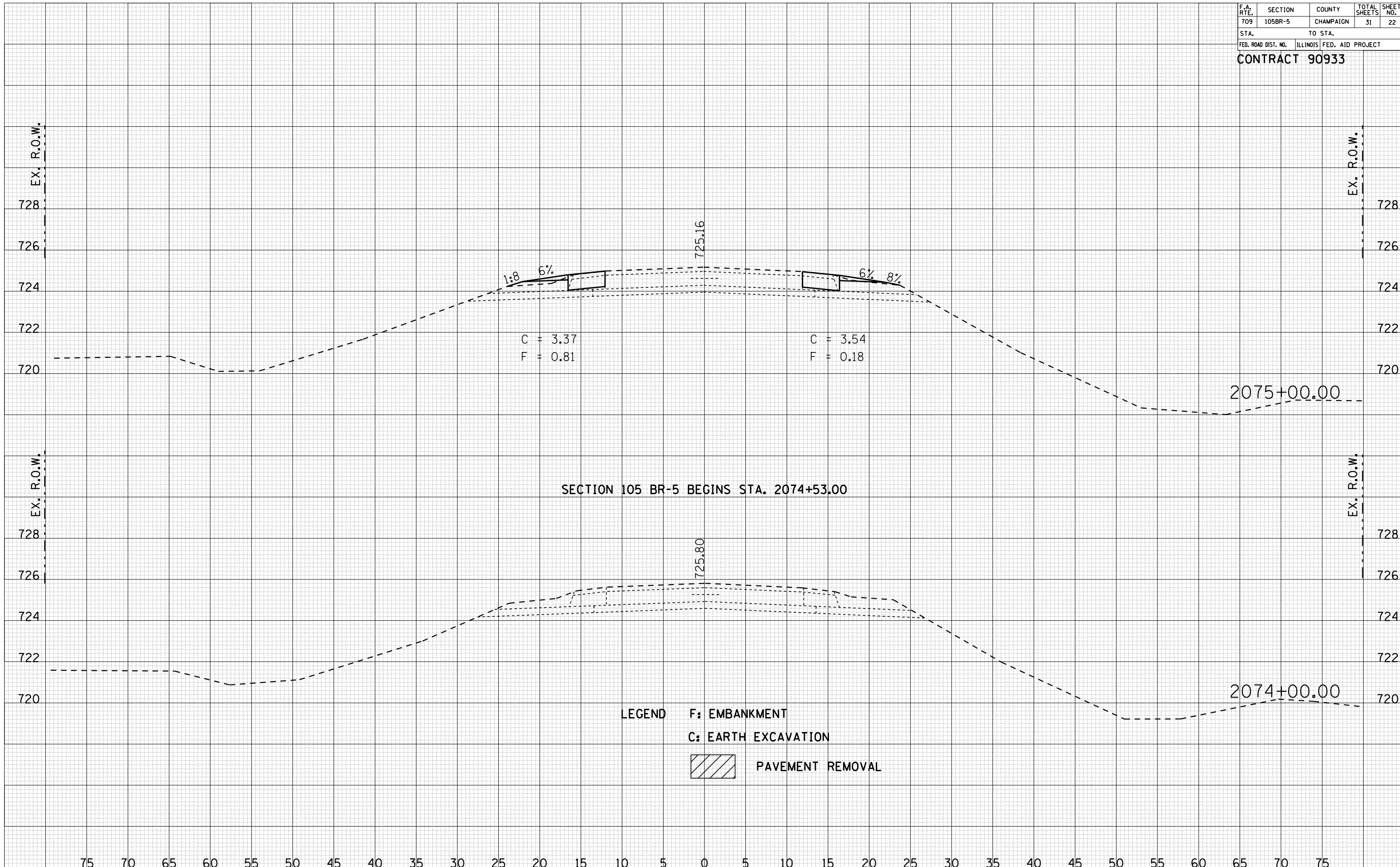
ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING DATA
US ROUTE 136 OVER BIG DITCH
FAP RTE. 709 SECTION 105BR-5
STA. 2078+57.63
CHAMPAIGN COUNTY STR. NO. 010-0276
SCALE: NTS DRAWN BY JAU
DATE 11-2001 CHECKED BY MJM


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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT 90933				

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

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



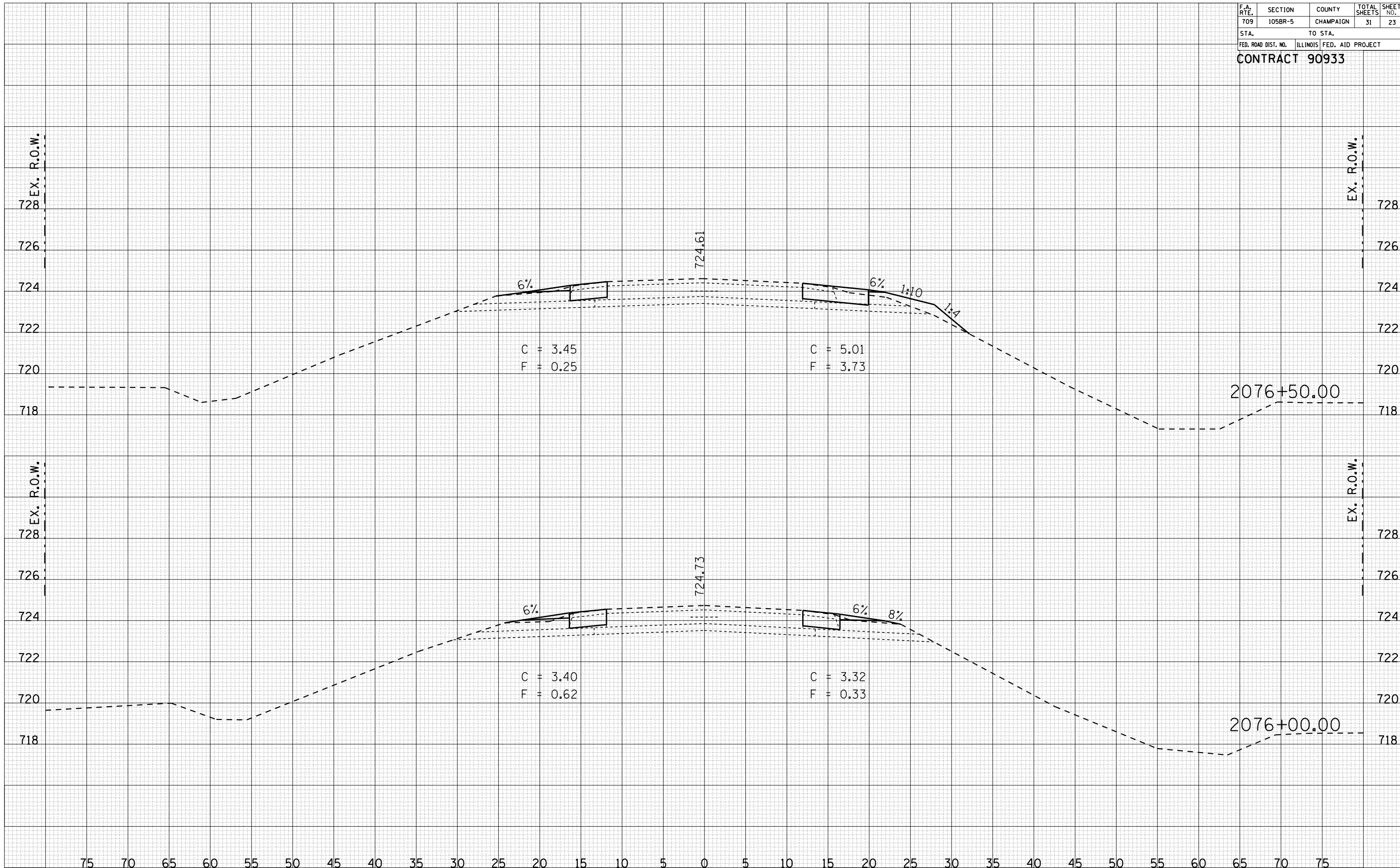
LEGEND F: EMBANKMENT
 C: EARTH EXCAVATION
 PAVEMENT REMOVAL

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT 90933				

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

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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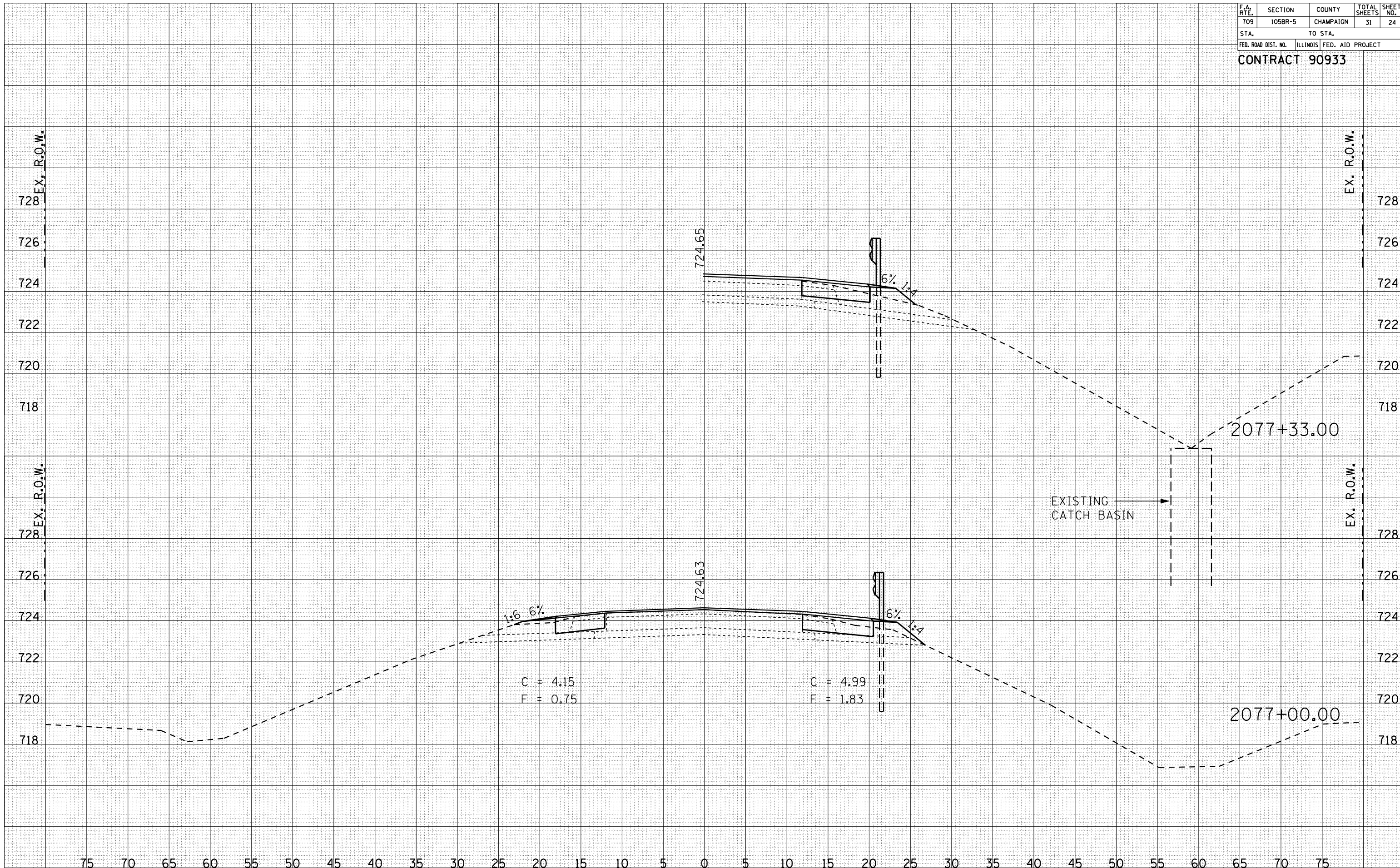
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT 90933

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

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
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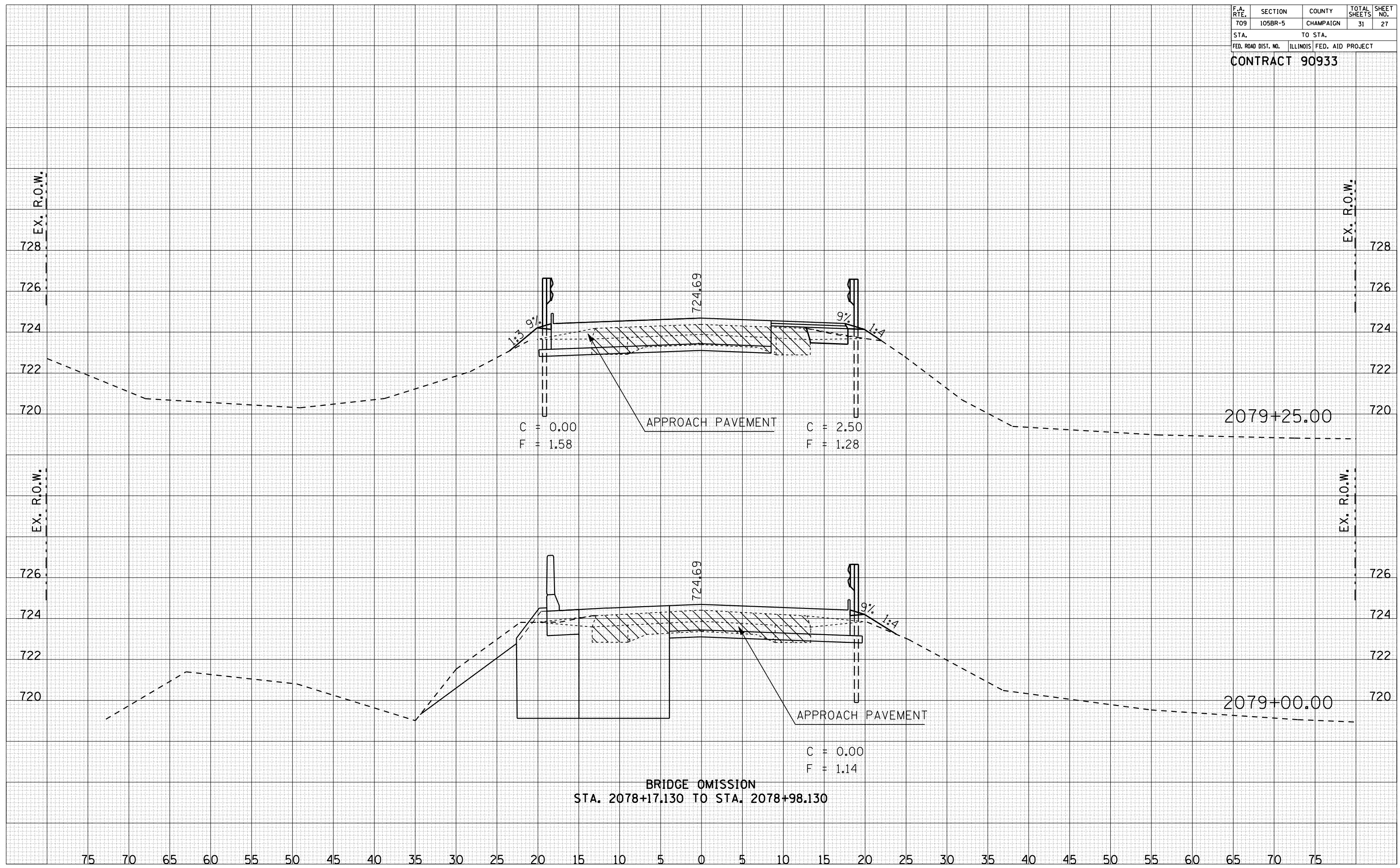
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT 90933

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

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NOTE BOOK NO.	PLOTTED		
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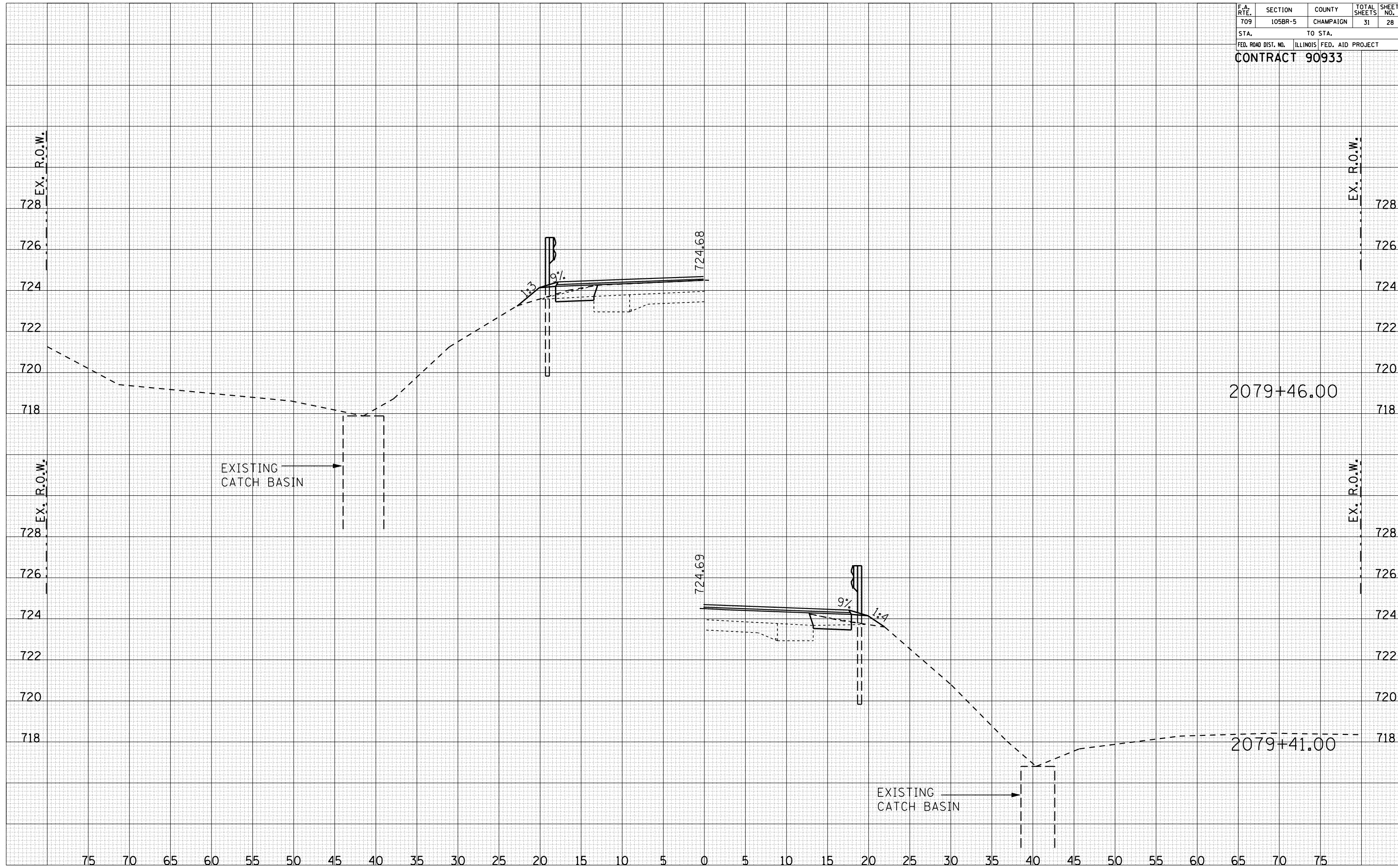


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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT 90933				

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

ORIGINAL SURVEY	SURVEYED	DATE
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	AREAS CHECKED	



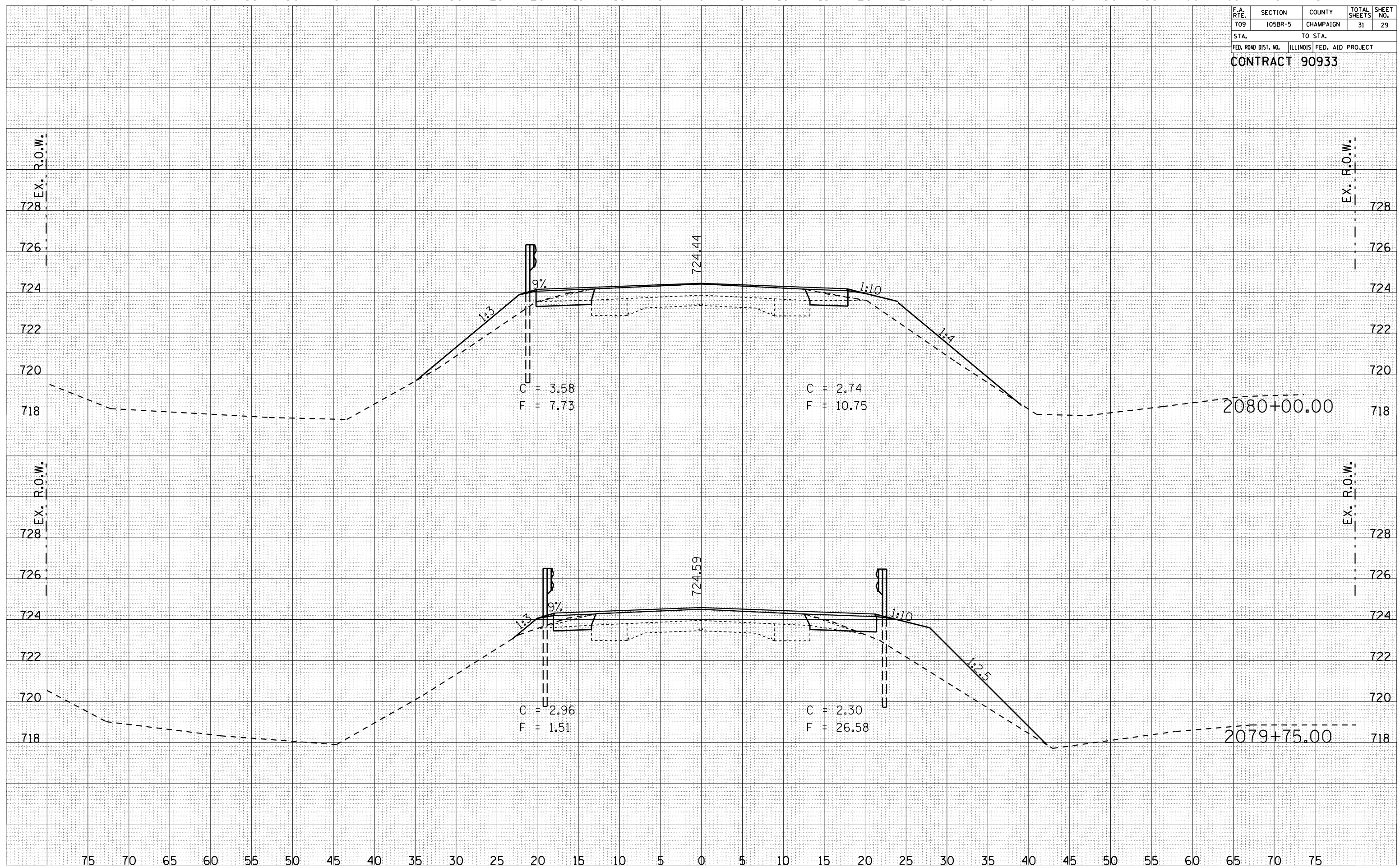
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT 90933

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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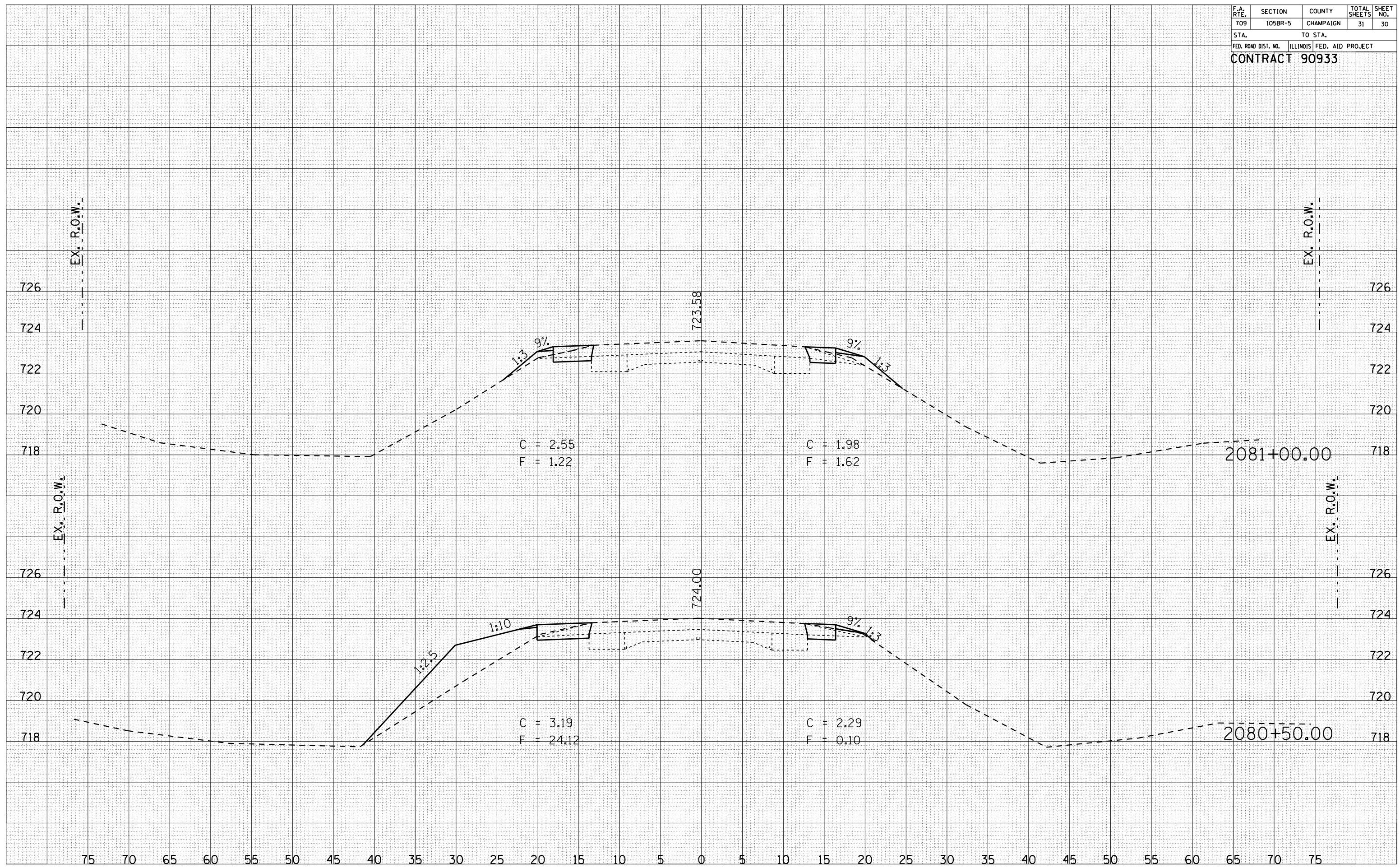


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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT 90933				

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NOTE BOOK NO.	PLOTTED		
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	AREAS CHECKED		

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



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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	105BR-5	CHAMPAIGN	31	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT 90933				

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

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
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