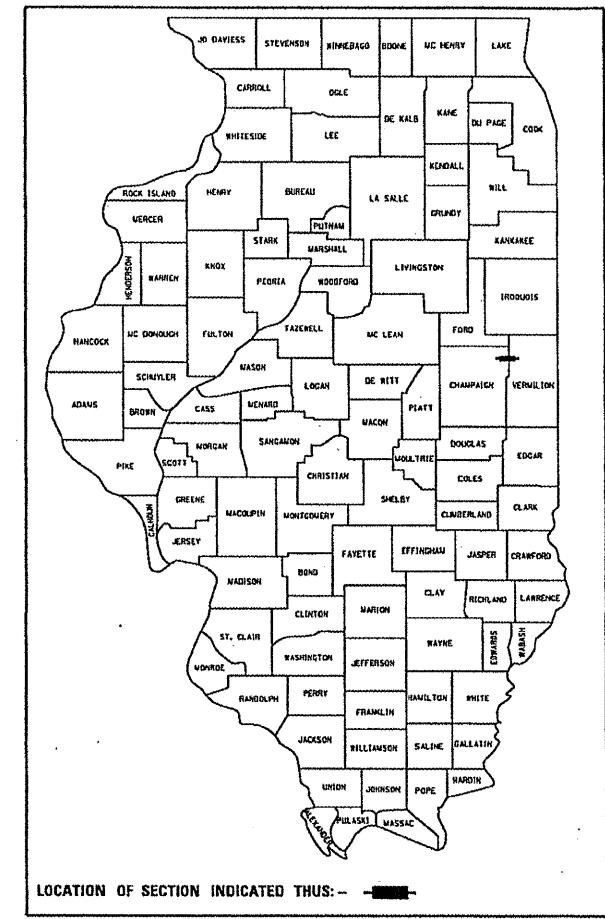


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	1

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

D-95-002-97



LOCATION OF SECTION INDICATED THUS: — ■ —

FOR UNDERGROUND UTILITY LOCATIONS CALL
 TOLL FREE J.U.L.I.E. TELEPHONE NO.
 1-800-892-0123
 HARWOOD, KERR, COMPROMISE,
 & MIDDLEFORK TOWNSHIPS

PLANS FOR PROPOSED
 HIGHWAY IMPROVEMENT

PLAN 1:50
 PROFILE HORIZ. N/A
 PROFILE VERT. N/A
 CROSS SECTIONS HORIZONTAL 1:20 VERTICAL 1:50

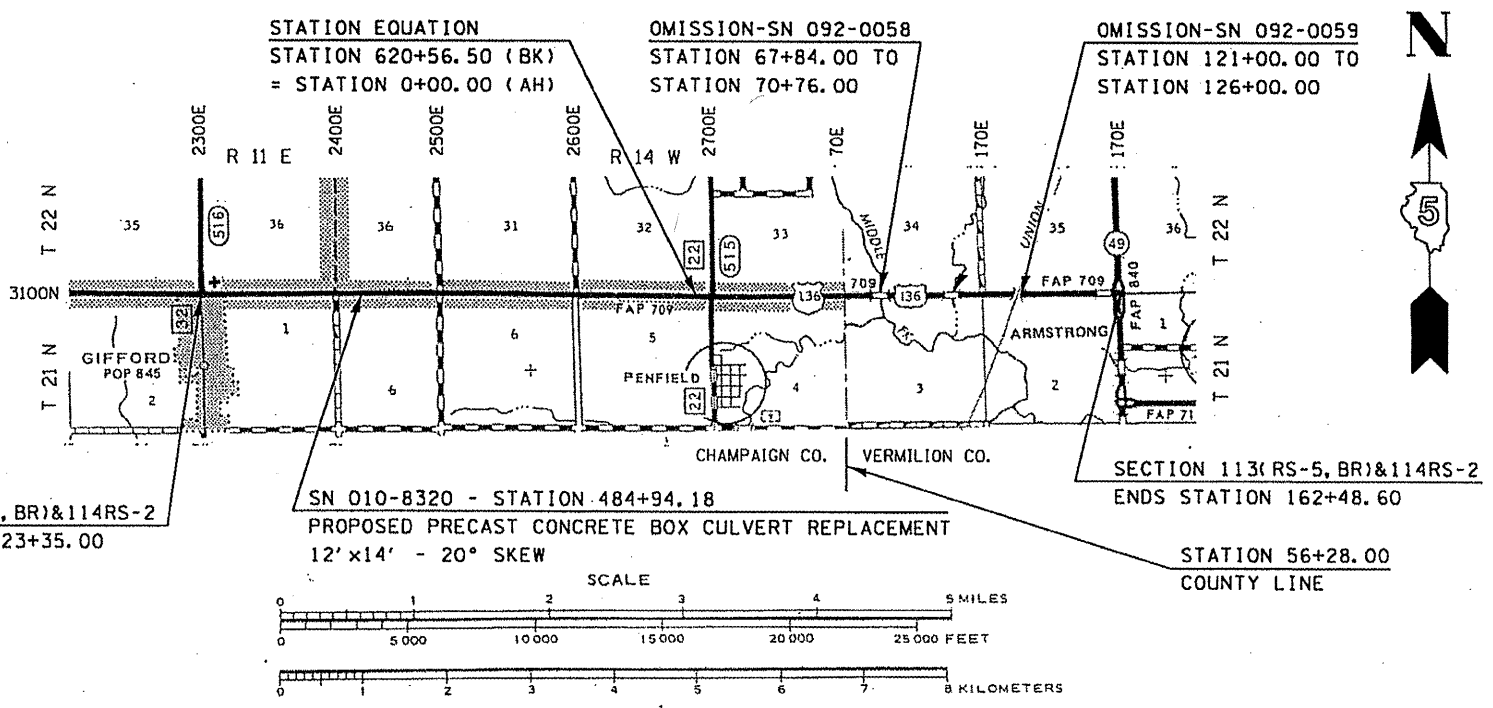
F.A.P. ROUTE 709 (U.S 136)
 SECTION 113(RS-5, BR) & 114RS-2
 CHAMPAIGN & VERMILION COUNTIES
 PROJECT F-0709(019)

C-95-002-97

RESURFACING MAINTENANCE (3P) & CULVERT REPLACEMENT
 FROM GIFFORD TO IL RTE 49 & 1.2 MI. EAST OF GIFFORD

FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4 & 5

PROJECT ENGINEER: TIM BRANDENBURG
 DESIGNER: JEFF M. SHERER



CURRENT TRAFFIC DATA
 US 136 GIFFORD TO IL 49

CURRENT ADT	=	3100
20 YR ADT	=	3700
PU & PC %	=	90.1
SU %	=	6.0
MU %	=	3.9

DESIGN DESIGNATION
 MINOR ARTERIAL

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *FEB 20 2006*
 X *[Signature]*
 DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

May 10 2006
Mike Hines
 ENGINEER OF DESIGN AND ENVIRONMENT

May 12 2006
Milton R. Sees, P.E.
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

CONTRACT NO. 90864

TOTAL LENGTH OF SECTION & PROJECT = 35,970.100 FEET = 6.813 MILES
 NET LENGTH OF SECTION & PROJECT = 35,178.100 FEET = 6.663 MILES

INDEX OF SHEETS

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2	INDEX OF SHEETS / HIGHWAY STANDARDS
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9-11	EXISTING TYPICAL CROSS SECTION
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15-28	SCHEDULES OF QUANTITIES
29-41	PLAN SHEETS
42	INTERSECTION DETAILS PARK AVE & FAS RTE 709
43	INTERSECTION DETAILS PENNFIELD RD & FAS RTE 709
44	DETAIL OF ACROSS ROAD CULVERT AT STA 7+94.70
45	DETAIL OF ACROSS ROAD BOX CULVERT AT STA 484+94.18
46	DETAIL OF BOX CULVERT END SECTION AT STA 484+94.18
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49	SOIL BORING LOGS
50-51	DETAIL OF BITUMINOUS SURFACE REMOVAL - BUTT-JOINT
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52	DETAIL OF PRIVATE OR COMMERCIAL ENTRANCE
52	DETAIL OF FIELD ENTRANCE
52	DETAIL OF MAILBOX TURNOUTS
53	POROUS GRANULAR BACKFILL DETAIL & STORM SEWER REPAIR
53	TYPICAL RUMBLE STRIP APPLICATION IN ADVANCE OF AN INTERSECTION
53	PAVEMENT PATCHING (PARTIAL DEPTH) DETAIL
54	DETAIL OF OUTLET (SPECIAL)
55	AERIAL SPEED CHECK ZONES DETAIL
55	DETAIL OF SPECIAL INLET FOR COMBINATION CONCRETE CURB AND GUTTER (BARRIER CURB)
56	DETAIL OF PERMANENT SURVEY MARKERS TO BE ADJUSTED
57	DETAIL OF SURVEY MONUMENT COVER ASSEMBLY
57	DETAIL OF SURVEY MARKER VAULT
58	DETAIL OF PAVEMENT MARKING US RTE 136 & IL RTE 49
59-61	TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS
62-72	CROSS SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	.	**	72	2

• 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
406201	MAILBOX TURNOUT
442201-01	CLASS C AND D PATCHES
482011-01	BITUMINOUS SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-02	NAME PLATE FOR BRIDGES
542306	PRECAST REINFORCES CONCRETE ELLIPTICAL FLARED END SECTION
606001-02	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-06	STEEL PLATE BEAM GUARDRAIL
630101-06	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-03	SHOULDER WIDENING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
701006-02	OFF-ROAD OPERATIONS 2L, 2W 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS \geq 45 MPH
701011-01	OFF-ROAD MOVING OPERATIONS 2L, 2W DAY ONLY FOR SPEEDS \geq 45 MPH
701201-02	LAND CLOSURE, 2L, 2W, DAY ONLY ON-ROAD TO 600 mm (24") OFF-ROAD FOR SPEEDS \geq 45 MPH
701206-01	LANE CLOSURE 2L, 2W, NIGHT ONLY, FOR SPEEDS \geq 45 MPH
701301-02	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701306-01	LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS-DAY ONLY FOR SPEEDS \geq 45 MPH
701311-02	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701326-02	LANE CLOSURE 2L, 2W PAVEMENT WIDENING FOR SPEEDS \geq 45 MPH
702001-06	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	.	**	72	3

* 113(RS-5,BR) & 114RS-2

** CHAMPAIGN AND VERMILION

CONTRACT NO. 90864

G.N. -100

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

G.N. -105.09A

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

G.N. -107.31

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.

G.N. -202

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

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

G.N. 250C

SEEDING, CLASS 7 AND MULCH, METHOD 2 IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE CLASS 7 SEEDING AND MULCH WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

G.N. -406

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

G.N. 406D

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 406H

MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location(s):	US ROUTE 136
Mixture Use(s):	BIT. SURFACE CSE., BIT. SHLDR. & INCIDENTAL
AC/PG:	PG 64-22
RAP %: (Max)**	15.0
Design Air Voids:	4.0% @ Ndes=50
Mixture Composition: Gradation Mixture:	IL 9.5
Friction Aggregate:	MIX C

Location(s):	US ROUTE 136
Mixture Use(s):	LEVELING BINDER (MACHINE METHOD)
AC/PG:	PG 64-22
RAP %: (Max)**	25.0
Design Air Voids:	4.0% @ Ndes=50
Mixture Composition: Gradation Mixture:	IL 9.5
Friction Aggregate:	MIX C

Location(s):	US ROUTE 136
Mixture Use(s):	CLASS D PATCHES, BIT. MIX. & BIT. BASE CSE. WID.
AC/PG:	PG 64-22
RAP %: (Max)**	25.0
Design Air Voids:	4.0% @ Ndes=50
Mixture Composition: Gradation Mixture:	IL 19.0
Friction Aggregate:	N/A

G.N. -408B

WHEN USING SUPERPAVE MIXTURES, THE INCIDENTAL BITUMINOUS SURFACING SHALL BE COMPACTED AS REQUIRED BY THE SPECIFICATIONS FOR DESIGN NUMBER OF GRAYATIONS BEING USED, AT THE FOLLOWING LOCATIONS:

Pennfield Road
Pershing Road

G.N. -540

THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N. #540A

CAST IN PLACE END SECTIONS, HEADWALLS, AND COLLARS ARE REQUIRED FOR PRECAST BOX CULVERTS. SHOP PLANS WILL NOT BE REQUIRED WITH CAST IN PLACE ITEMS CONSTRUCTED AS SHOWN IN THE PLANS. SHOP PLANS SHALL BE SUBMITTED FOR CHANGED OR MODIFIED CAST IN PLACE DETAILS IN ACCORDANCE WITH ARTICLE 540.06.

G.N. -442B -- PATCHING SCHEDULES

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

G.N. -442C -- PARTIAL DEPTH PATCHING DIMENSIONS

FOR PARTIAL DEPTH PAVEMENT PATCHING, THE MINIMUM SIZE OF ANY PATCH SHALL BE 4 FT BY 4 FT. IF THE REPAIR OF ANY SMALLER AREAS IS REQUIRED, THAT WORK SHALL BE DESIGNATED AS "PAVEMENT CLEANING" AND WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.

G.N. -482

ALL MATERIAL PLACED AS BITUMINOUS SHOULDERS SUPERPAVE SHALL BE COMPACTED TO 94-98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO BOTH B.A.M. AND IL 9.5L GRADATION SHOULDER MIXES. THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER OC/OA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR BOTH THE B.A.M. AND IL 9.5L MIXES USING STANDARD CORRELATION PROCEDURES.

G.N. -542

BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N. -542.07

AT LOCATIONS WHERE END SECTIONS ARE SPECIFIED, CAST-IN-PLACE CONCRETE HEADWALLS WILL NOT BE ALLOWED.

G.N. -667

THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS AND TO DETERMINE IF IT WILL BE NECESSARY FOR THE CONTRACTOR TO HIRE AN ILLINOIS LAND SURVEYOR.

G.N. -703A

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

G.N. -781

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

G.N. -1004.01

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

G.N. -1004.03

REVISE ARTICLE 1004.03 (c) NOTE 5/ OF THE STANDARD SPECIFICATIONS TO READ:

'5/ GRADATION CA-16 SHALL BE USED IN LIEU OF CA-13 WHEN THE SURFACE COURSE IS LESS THAN 1 3/4 INCHES IN THICKNESS. CA-13 OR CA-16 MAY BE USED WHEN THE SURFACE COURSE IS 1 3/4 INCHES OR MORE IN THICKNESS.'

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	.	..	72	4

LOCATION OF WORK: FAP 709 (US 136)
SECTION 113(RS-5, BR) & 114RS-2
CHAMPAIGN/VERMILION CO.
2 LANE RURAL

FAP 709 (US 136) RURAL STA. 423+35 TO STA. 56+28 80% FED 20% STATE 1000	FAP 709 (US 136) RURAL STA. 56+28 TO STA. 161+47.64 80% FED 20% STATE 1000
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• 113(RS-5, BR) & 114RS-2
•• CHAMPAIGN AND VERMILION
CONTRACT NO. 90864

CONSTRUCTION TYPE CODE:

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CHAMPAIGN CO.	VERMILION CO.
X0325366	STORM SEWER REPAIR	FOOT	60.0	0.0	60.0
20200100	EARTH EXCAVATION	CU YD	294.0	294.0	0.0
20400800	FURNISHED EXCAVATION	CU YD	25.0	25.0	0.0
20900110	POROUS GRANULAR BACKFILL	CU YD	95.0	95.0	0.0
21301048	EXPLORATION TRENCH 48" DEPTH	FOOT	420.0	420.0	0.0
21400100	GRADING AND SHAPING DITCHES	FOOT	160.0	160.0	0.0
25000200	SEEDING, CLASS 2	ACRE	0.9	0.9	0.0
25000350	SEEDING, CLASS 7	ACRE	0.9	0.9	0.0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	77.0	77.0	0.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	77.0	77.0	0.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	77.0	77.0	0.0
25100115	MULCH, METHOD 2	ACRE	0.9	0.9	0.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	56.0	56.0	0.0
28000300	TEMPORARY DITCH CHECKS	EACH	11.0	11.0	0.0
28000400	PERIMETER EROSION BARRIER	FOOT	681.0	681.0	0.0
28000500	INLET AND PIPE PROTECTION	EACH	1.0	1.0	0.0
28100107	STONE RIPRAP, CLASS A4	SQ YD	280.0	280.0	0.0
28101500	RIPRAP, SPECIAL	SQ YD	112.0	112.0	0.0
28200200	FILTER FABRIC	SQ YD	280.0	280.0	0.0
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	77.0	77.0	0.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	12661.0	7323.0	5338.0
40600300	AGGREGATE (PRIME COAT)	TON	254.0	147.0	107.0
40600895	CONSTRUCTING TEST STRIP	EACH	1.0	1.0	0.0
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	1095.0	392.0	703.0
40600990	TEMPORARY RAMP	SQ YD	189.0	50.0	139.0
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	401.0	345.0	56.0
40800030	AGGREGATE (PRIME COAT)	TON	8.0	7.0	1.0
40800040	INCIDENTAL BITUMINOUS SURFACING	TON	574.0	494.0	80.0
44000025	BITUMINOUS SURFACE REMOVAL (SPECIAL)	SQ YD	443.0	329.0	114.0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	104.0	104.0	0.0
44002500	GUTTER OUTLET REMOVAL	EACH	2.0	2.0	0.0
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	58.0	58.0	0.0
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	61.0	61.0	0.0
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	150.0	150.0	0.0
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	32.0	0.0	32.0
44201796	CLASS D PATHCES, TYPE IV, 12 INCH	SQ YD	43.0	0.0	43.0

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	.	**	72	5

LOCATION OF WORK: FAP 709 (US 136)
SECTION 113(RS-5, BR)&114RS-2
CHAMPAIGN/VERMILION CO.
2 LANE RURAL

FAP 709 (US 136)
RURAL
STA. 423+35
TO
STA. 56+28
80% FED
20% STATE
1000

FAP 709 (US 136)
RURAL
STA. 56+28
TO
STA. 161+47.64
80% FED
20% STATE
1000

• 113(RS-5, BR) & 114RS-2
•• CHAMPAIGN AND VERMILION
CONTRACT NO. 90864

CONSTRUCTION TYPE CODE:

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CHAMPAIGN CO.	VERMILION CO.
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SO YD	441.0	441.0	0.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	3688.0	2676.0	1012.0
48202000	BITUMINOUS SHOULDERS SUPERPAVE	TON	188.0	0.0	188.0
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0	1.0	0.0
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1.0	1.0	0.0
51500100	NAME PLATES	EACH	1.0	1.0	0.0
54001000	BOX CULVERT END SECTIONS	EACH	2.0	2.0	0.0
54021204	PRECAST CONCRETE BOX CULVERT 12' X 4' (M273)	FOOT	56.0	56.0	0.0
54207162	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE - ELLIPTICAL, EQUIVALENT ROUND-SIZE 27"	FOOT	40.0	40.0	0.0
54214512	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 27"	EACH	2.0	2.0	0.0
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2.3	2.3	0.0
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	58.0	58.0	0.0
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	350.0	350.0	0.0
* 63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	100.0	100.0	0.0
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	25.0	25.0	0.0
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	11.0	11.0	0.0
63200310	GUARDRAIL REMOVAL	FOOT	800.0	800.0	0.0
66700110	PERMANENT SURVEY MARKERS TO BE ADJUSTED	EACH	7.0	4.0	3.0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5.0	3.0	2.0
67100100	MOBILIZATION	L SUM	1.0	0.7	0.3
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	0.7	0.3
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1.0	1.0	0.0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0	0.7	0.3
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	11234.0	7864.0	3370.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1873.0	1311.0	562.0
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	47.0	0.0	47.0
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3020.0	0.0	3020.0
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	105.0	0.0	105.0
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50.0	0.0	50.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	87144.0	60477.0	26667.0
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	50.0	50.0	0.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	454.0	317.0	137.0
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	11.0	11.0	0.0

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	.	**	72	6

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

LOCATION OF WORK: FAP 709 (US 136)
 SECTION 113(RS-5, BR)&114RS-2
 CHAMPAIGN/VERMILION CO.
 2 LANE RURAL

FAP 709 (US 136) RURAL STA. 423+35 TO STA. 56+28 80% FED 20% STATE 1000	FAP 709 (US 136) RURAL STA. 56+28 TO STA. 161+47.64 80% FED 20% STATE 1000
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CONSTRUCTION TYPE CODE:

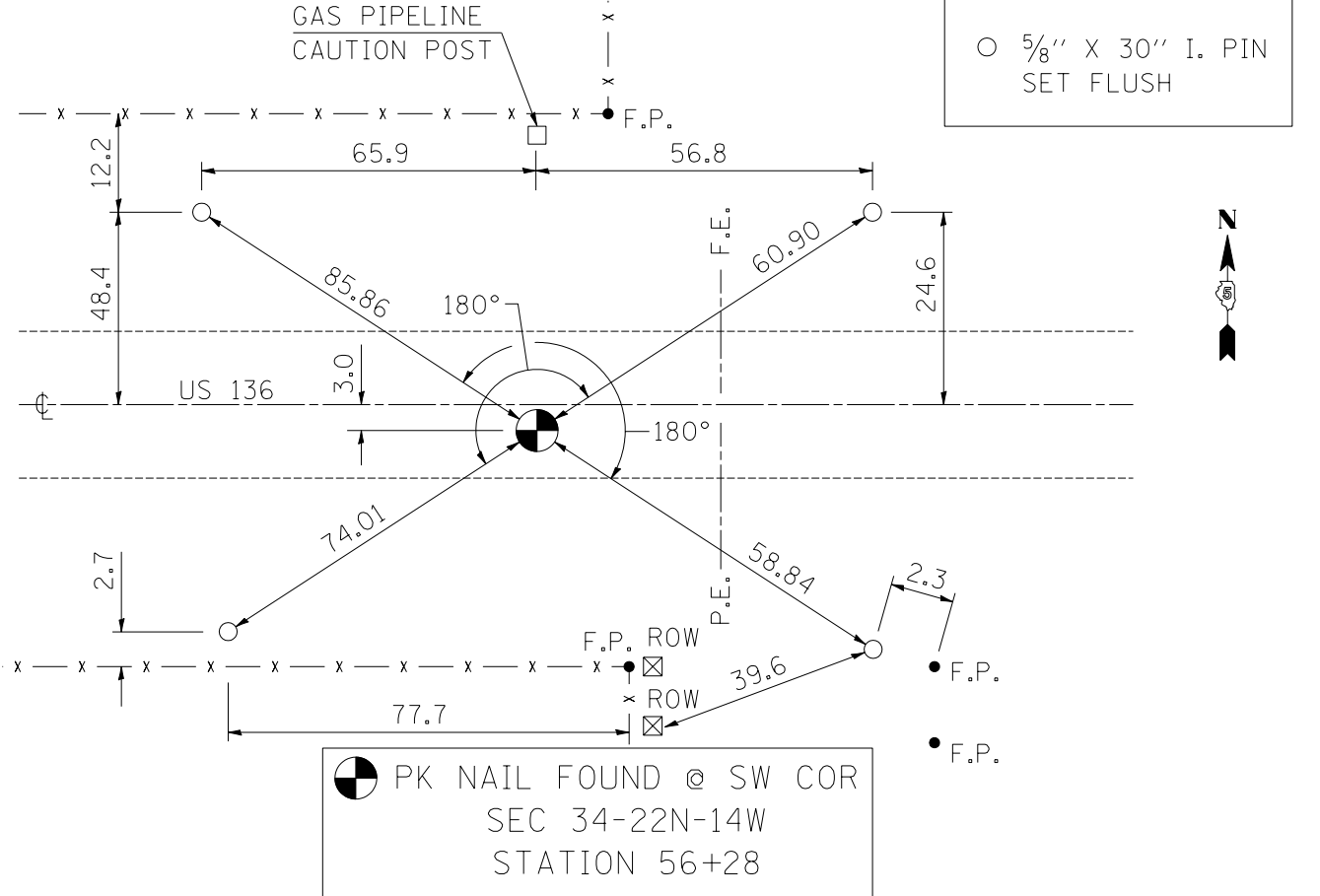
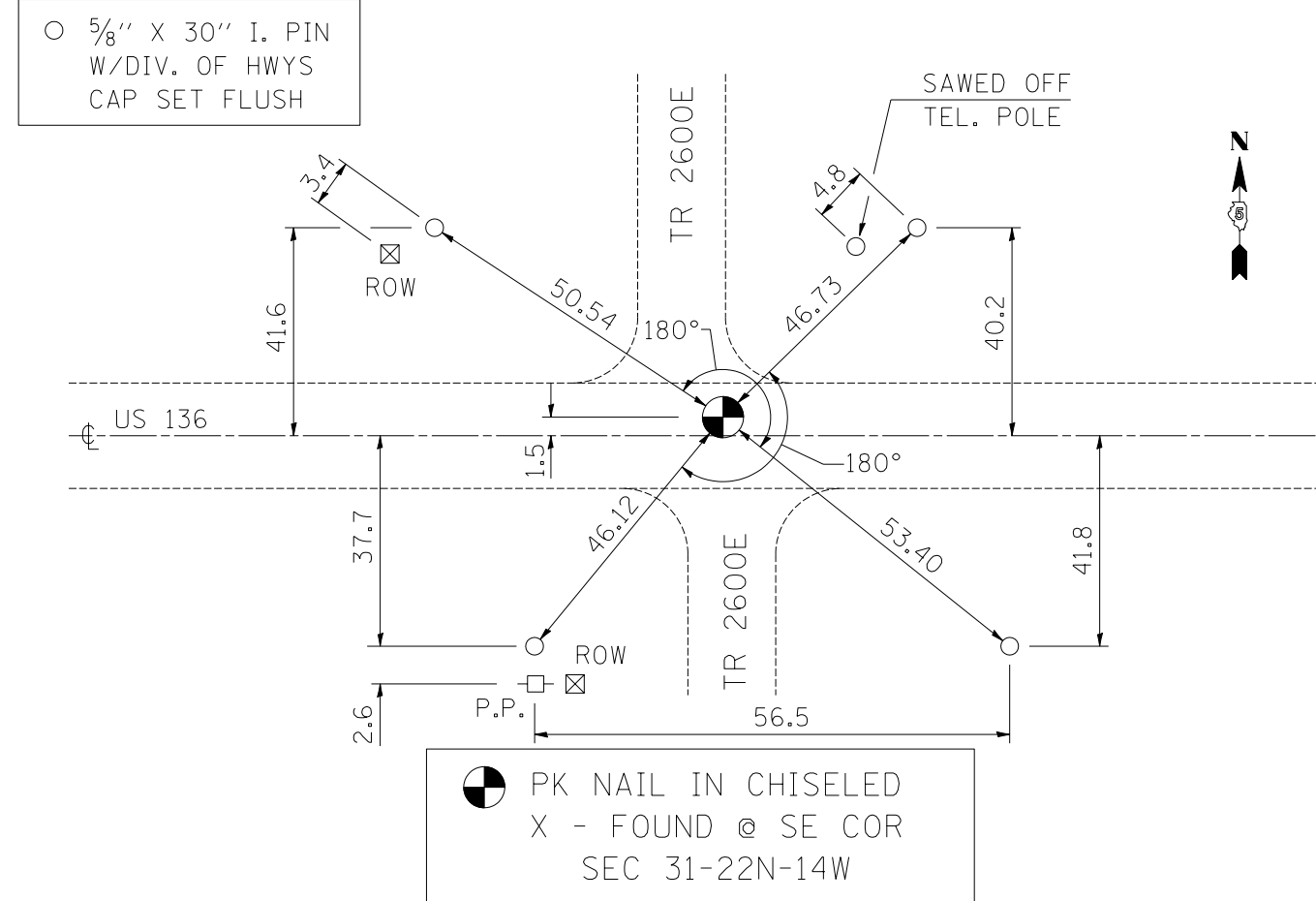
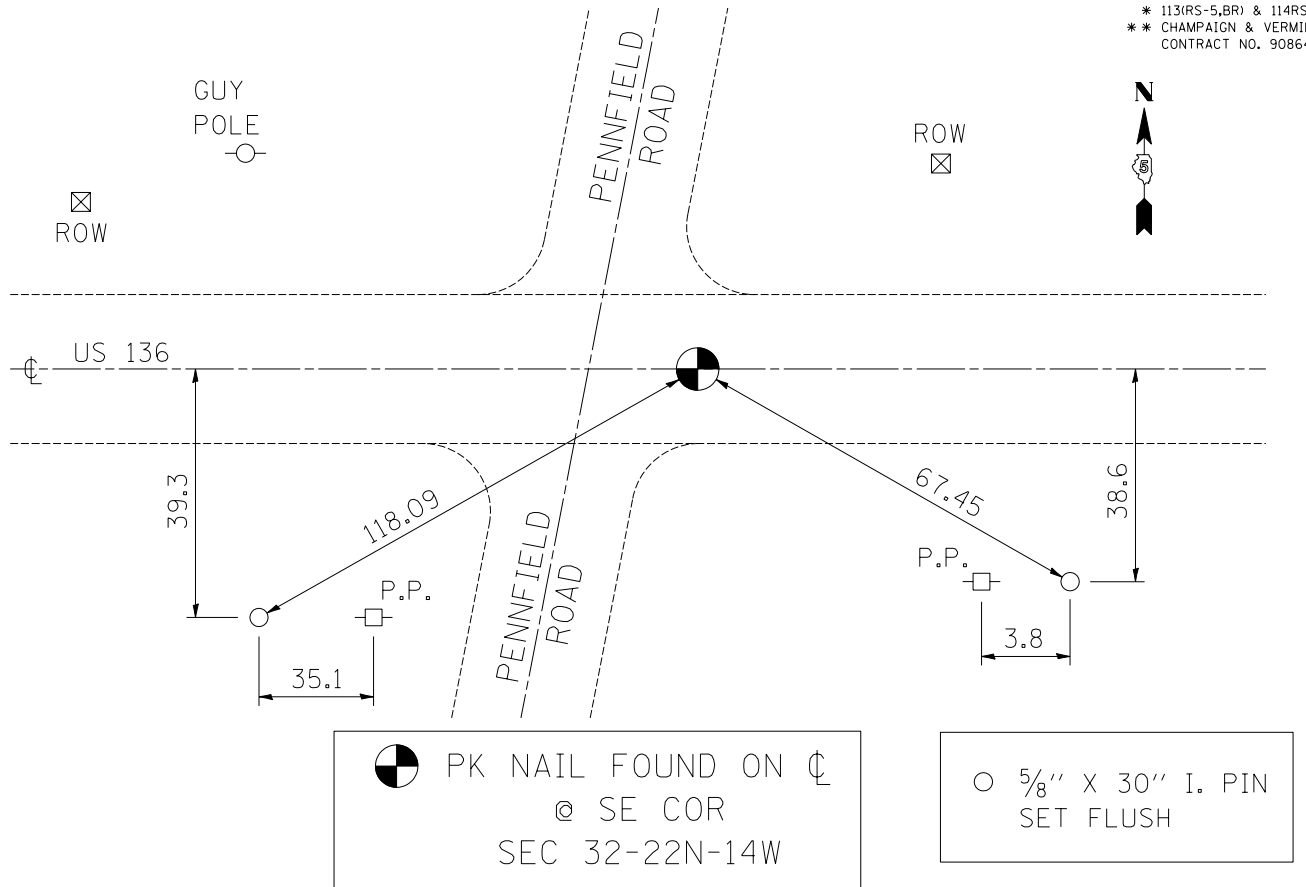
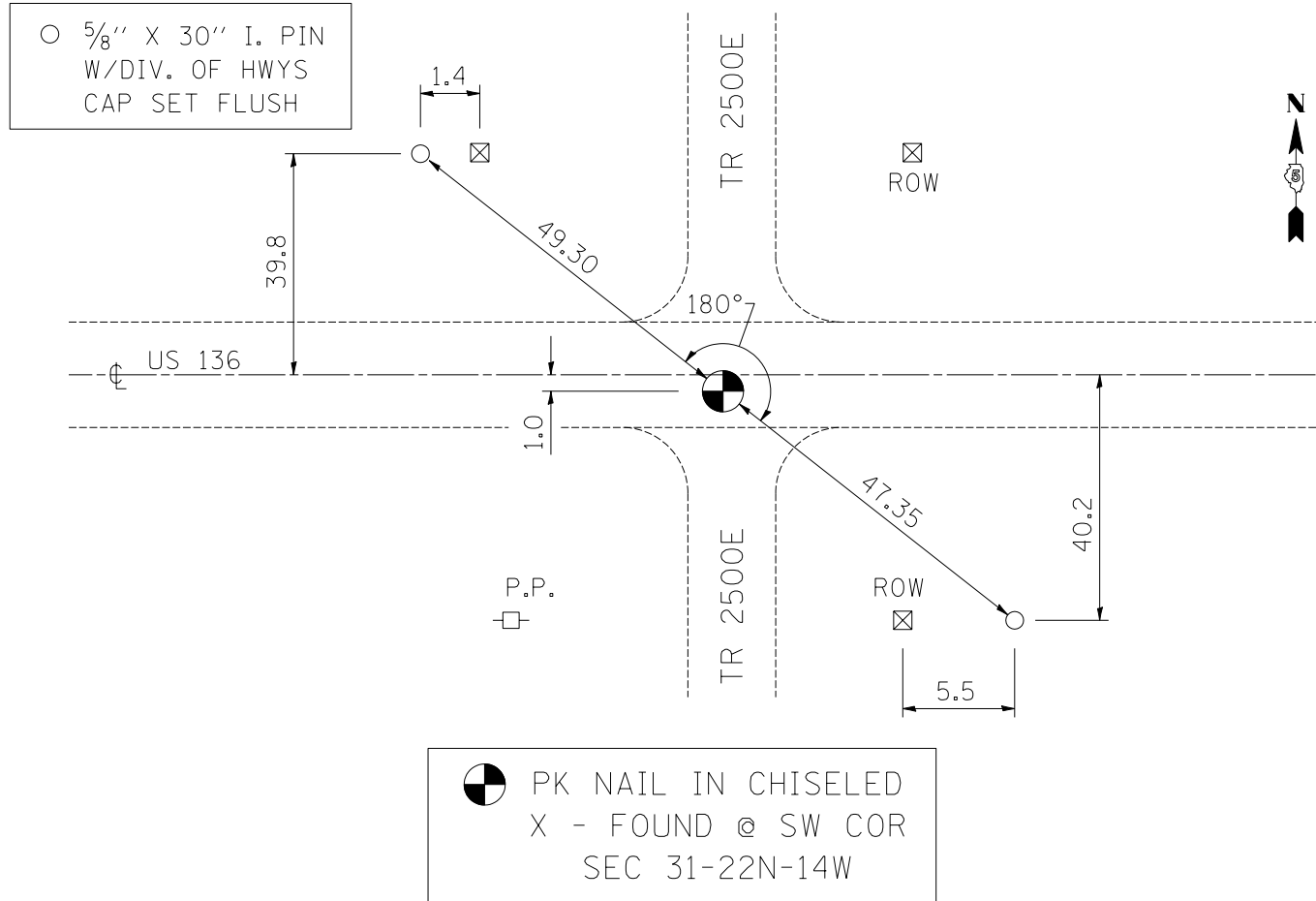
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CHAMPAIGN CO.	VERMILION CO.
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	454.0	317.0	137.0
X0301232	SURVEY MARKER VAULT	EACH	2.0	1.0	1.0
* X0301741	AERIAL SPEED CHECK MARKING	FOOT	8.0	8.0	0.0
* X0323115	REFLECTOR MARKERS, TYPE A	EACH	6.0	6.0	0.0
X0324058	OUTLET SPECIAL	EACH	2.0	2.0	0.0
X3560120	BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE 8 INCH	SQ YD	23.0	23.0	0.0
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	10449.0	6152.0	4297.0
X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON	5224.0	3076.0	2148.0
X4401705	PARTIAL DEPTH REMOVAL	SQ YD	2090.0	1795.0	295.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	10.0	10.0	0.0
Z0004800	BITUMINOUS MIXTURE FOR PATCHING	TON	857.0	735.0	122.0
⓪ Z0014700	CULVERTS TO BE CLEANED	EACH	3.0	3.0	0.0
Z0055300	RUMBLE STRIP	EACH	3.0	0.0	3.0

* SPECIALTY ITEM

⓪ **NON-PARTICIPATING**

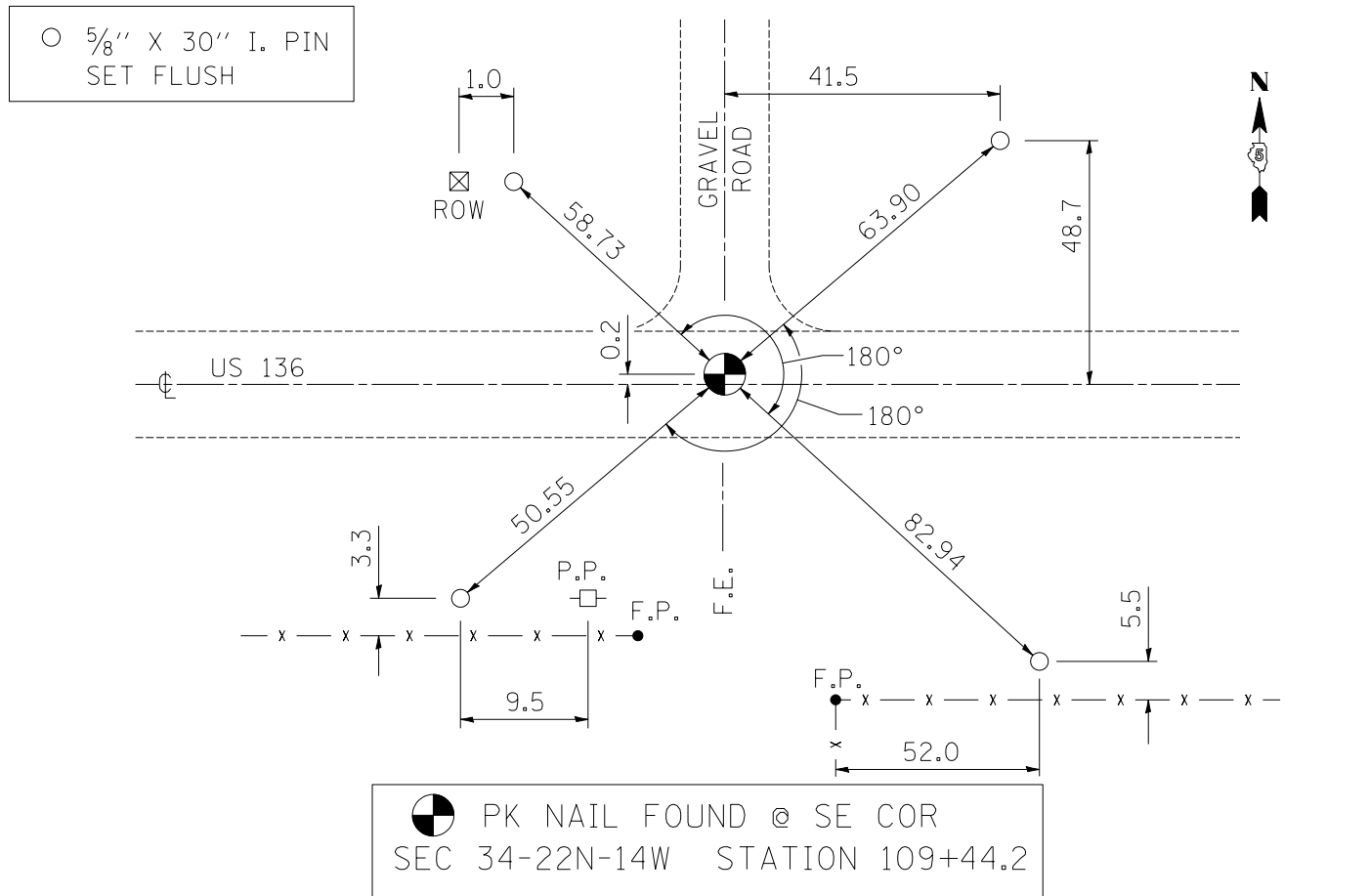
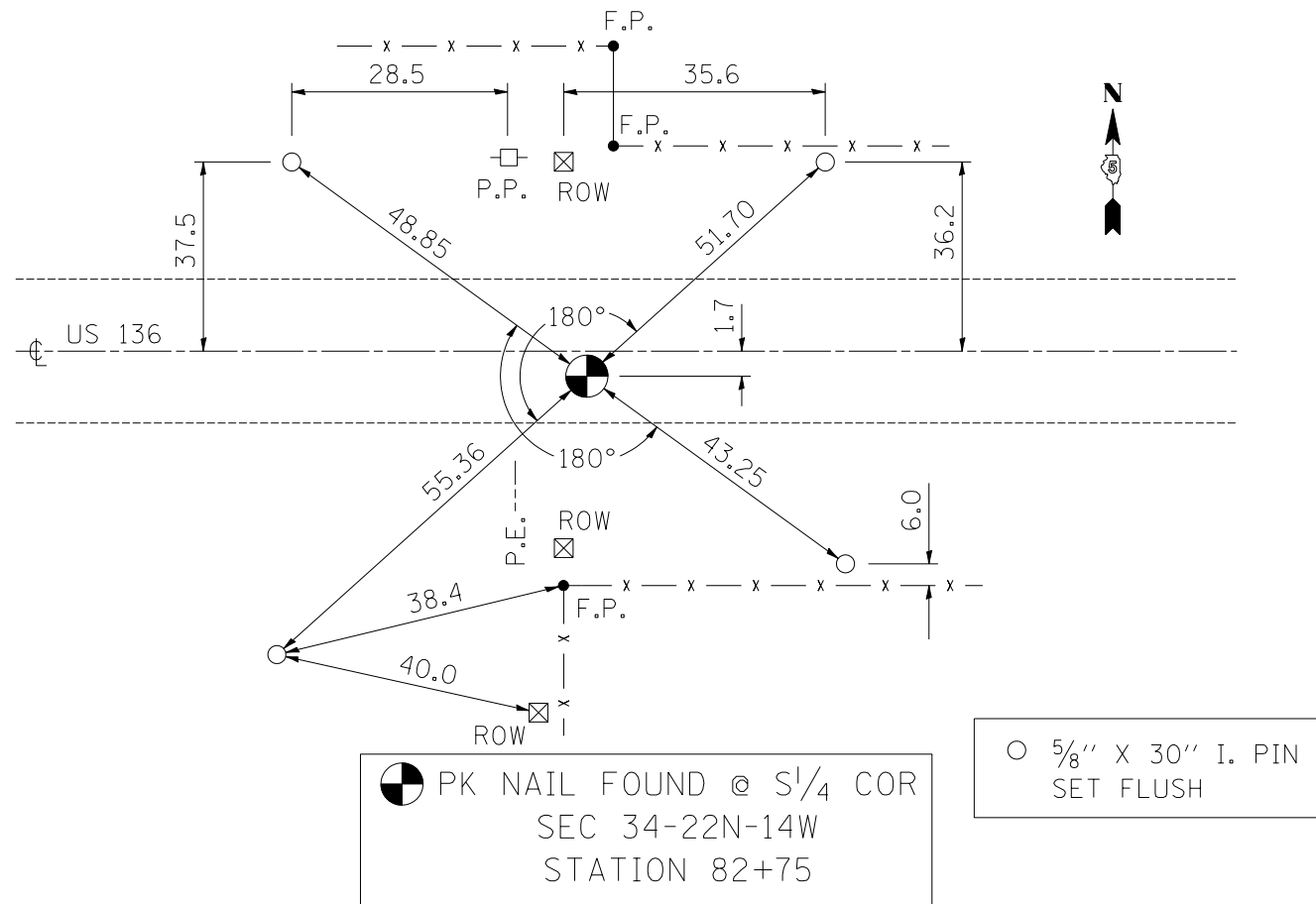
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	7

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	8

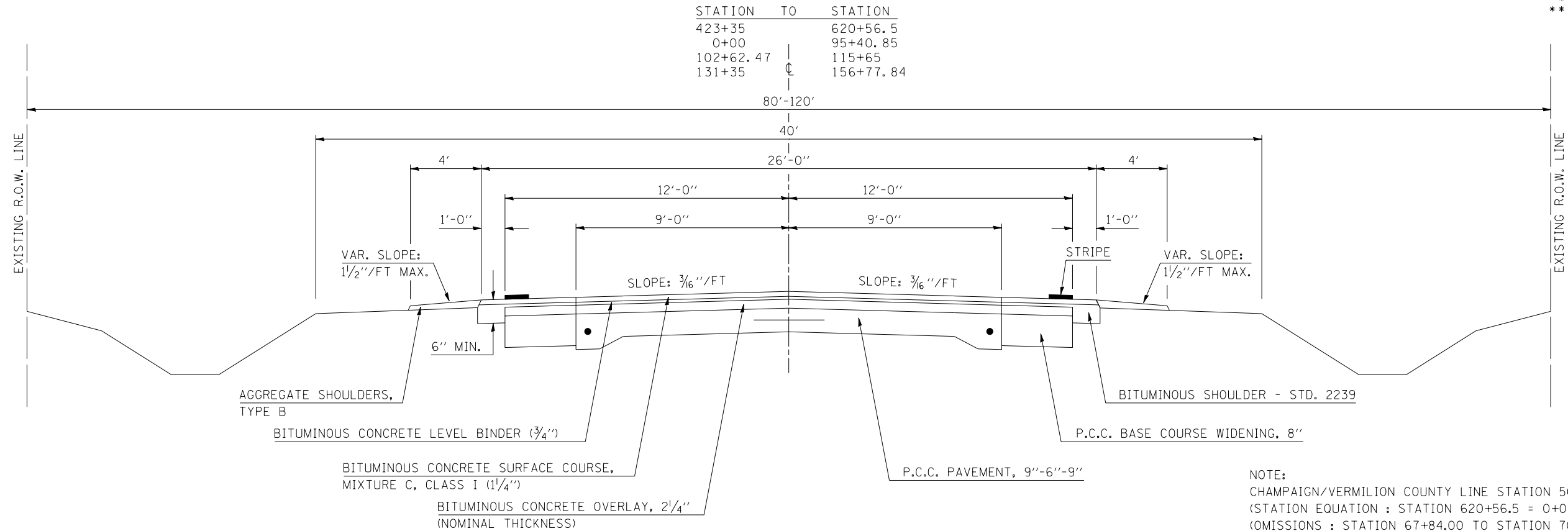
* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864



EXISTING TYPICAL CROSS SECTION

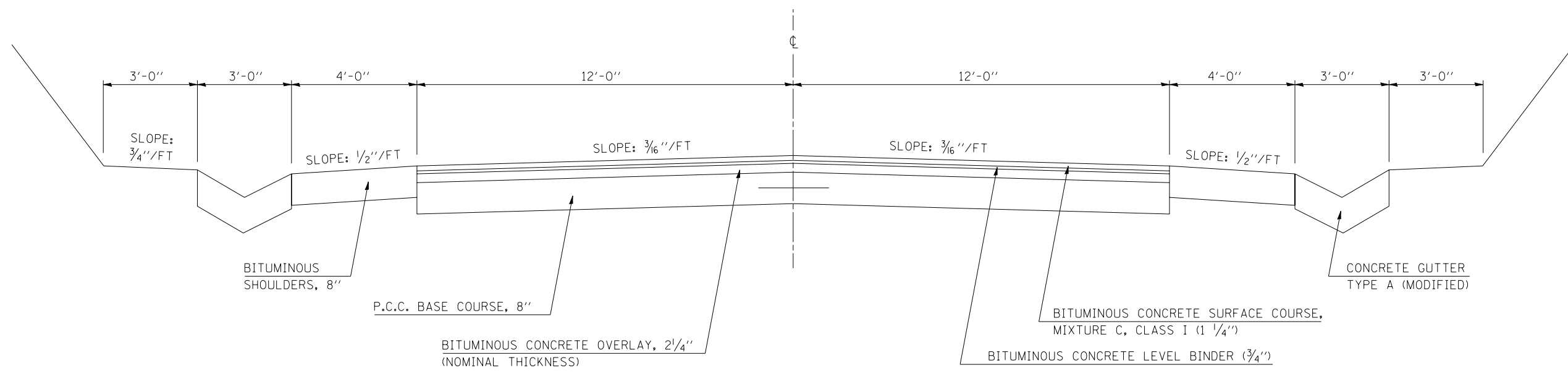
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	9

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864



EXISTING TYPICAL CROSS SECTION

STATION	TO	STATION
115+65		131+35



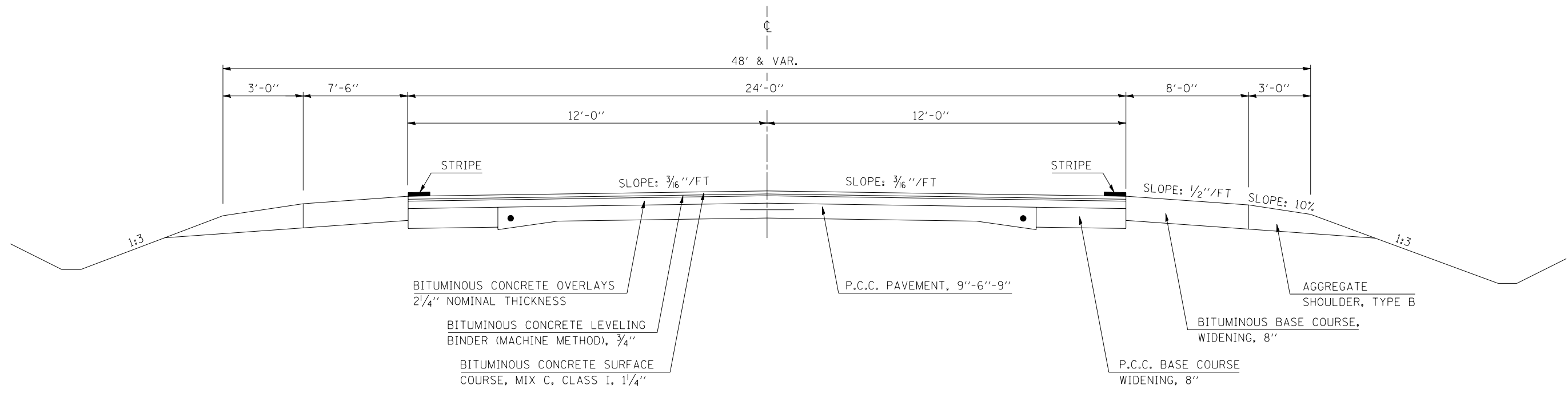
NOTE:
 (OMISSION: STATION 121+00 TO STATION 126+00)

EXISTING TYPICAL CROSS SECTION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	10

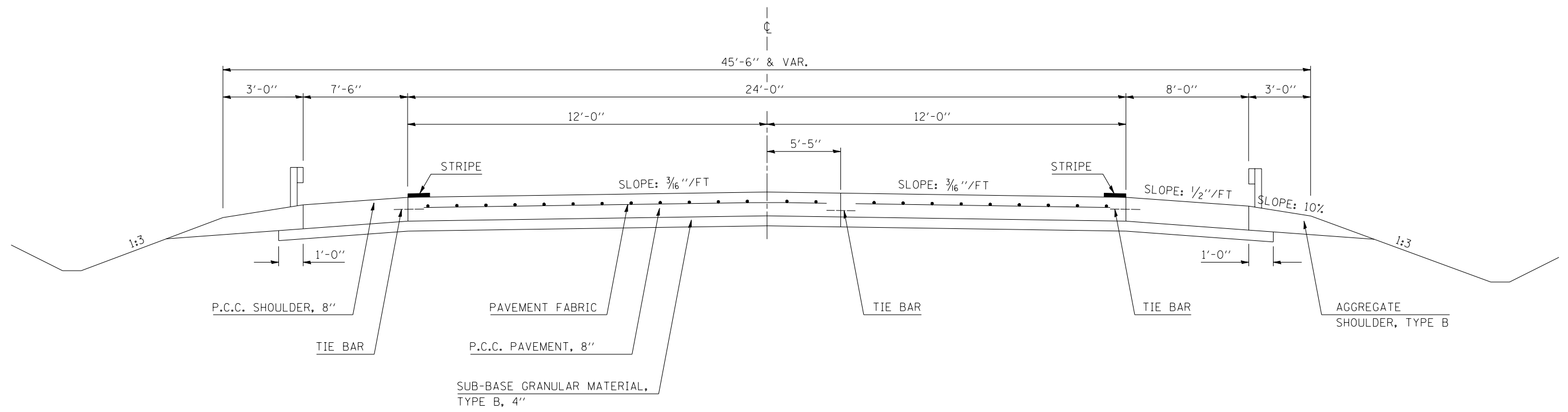
* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

STATION	TO	STATION
95+40.85		98+42.52
99+57.35		102+62.47



EXISTING TYPICAL CROSS SECTION

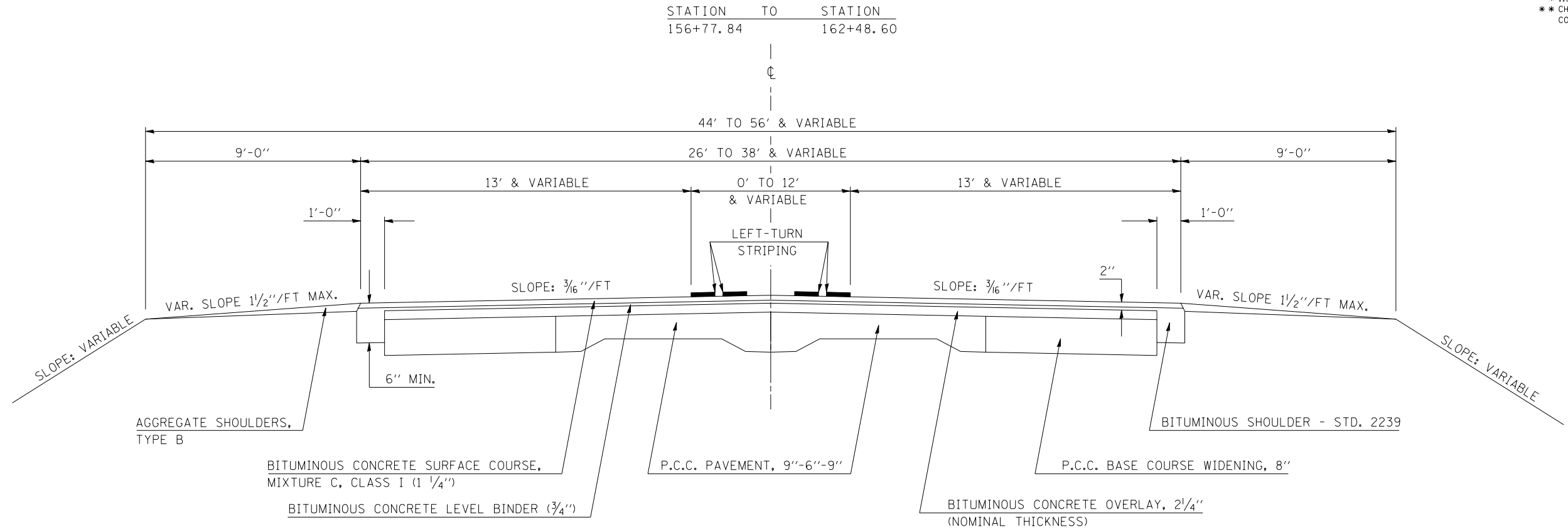
STATION	TO	STATION
98+42.52		99+57.35



EXISTING TYPICAL CROSS SECTION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	11

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

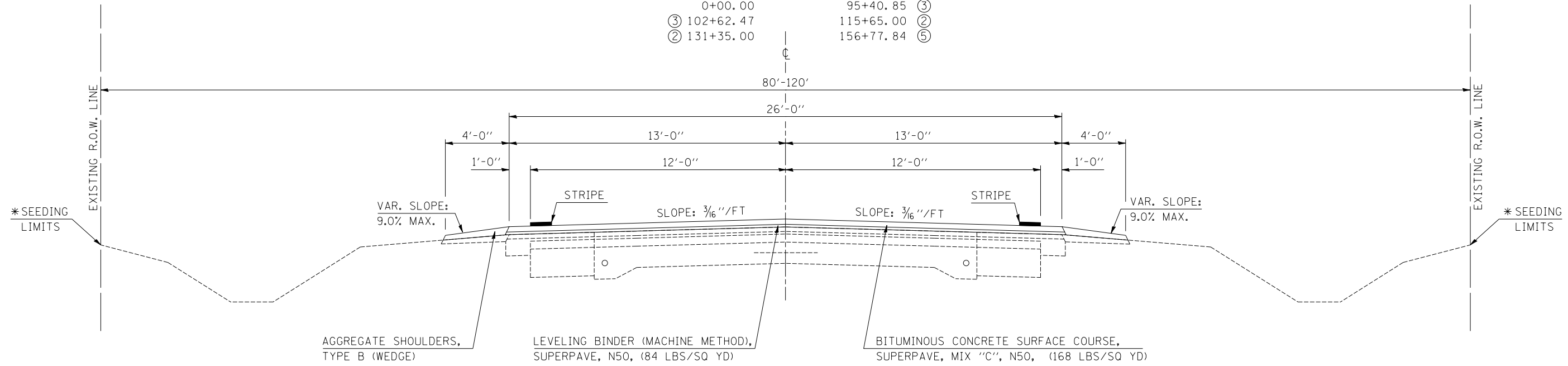


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	12

1 PROPOSED TYPICAL CROSS SECTION

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

STATION	TO	STATION
423+35.00		620+56.50
0+00.00		95+40.85 ③
③ 102+62.47		115+65.00 ②
② 131+35.00		156+77.84 ⑤

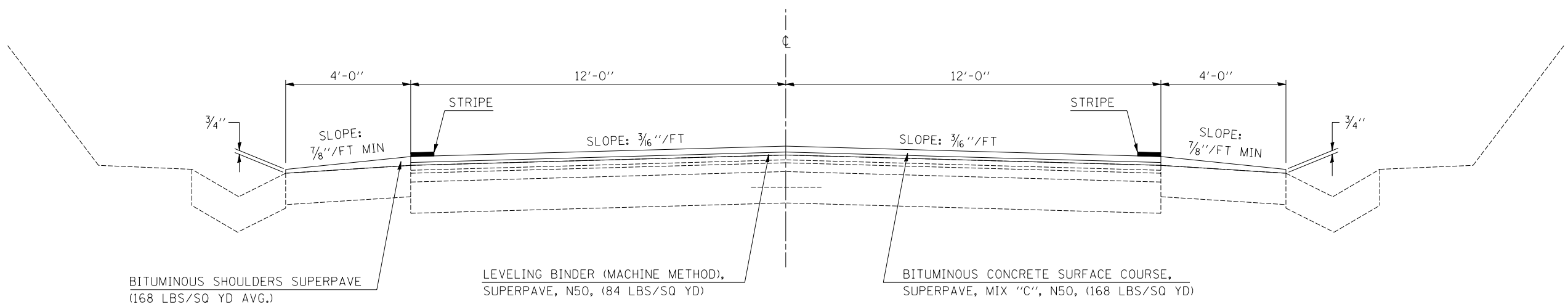


NOTE:
 CHAMPAIGN/VERMILION COUNTY LINE STATION 56+28
 (STATION EQUATION : STATION 620+56.5 = 0+00.00)
 (OMISSIONS : STATION 67+84.00 TO STATION 70+76.00)

* SEE CROSS-SECTIONS & APPROPRIATE
 DESIGN DETAILS FOR AREAS TO BE SEEDED

2 PROPOSED TYPICAL CROSS SECTION

STATION	TO	STATION
① 115+65.00		131+35.00 ①



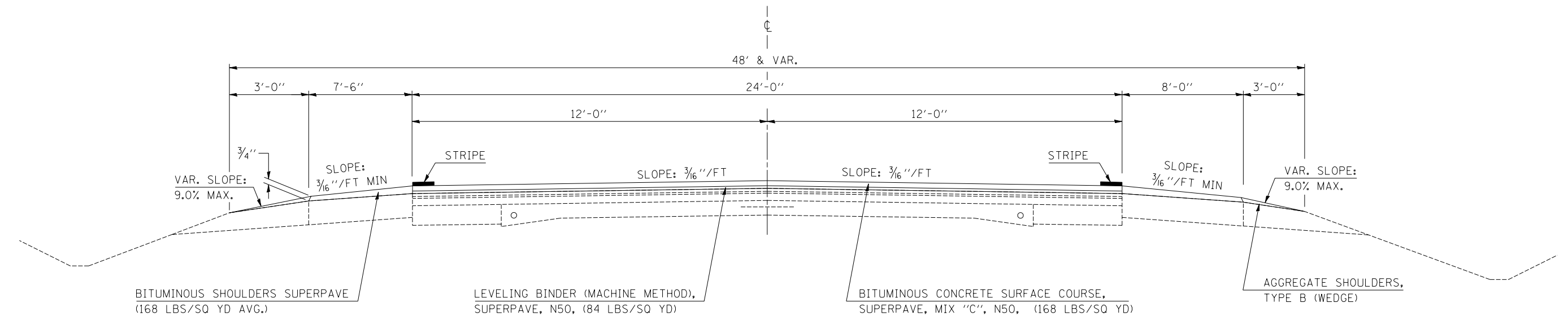
NOTE:
 (OMISSION: STATION 121+00 TO STATION 126+00)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	13

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

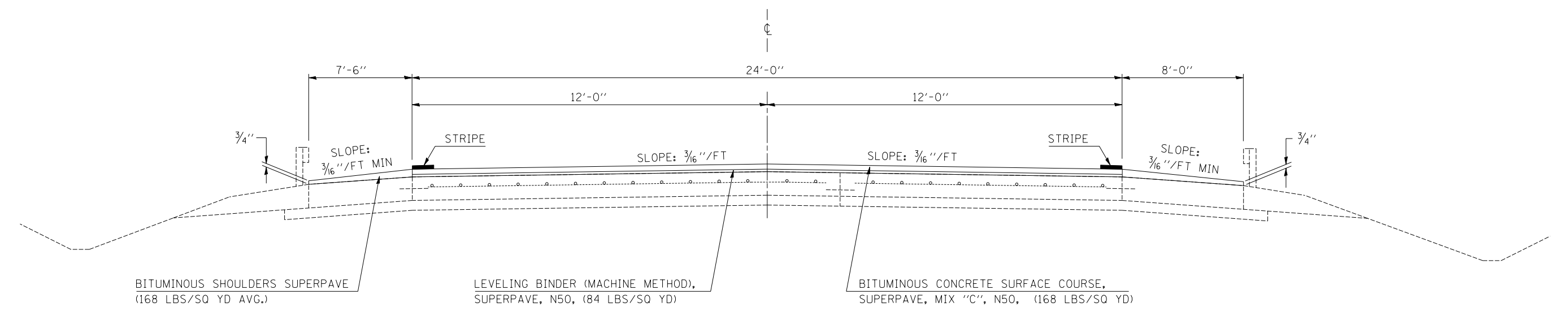
3 PROPOSED TYPICAL CROSS SECTION

STATION	TO	STATION
① 95+40.85		98+42.52 ④
④ 99+57.35		102+62.47 ①



4 PROPOSED TYPICAL CROSS SECTION

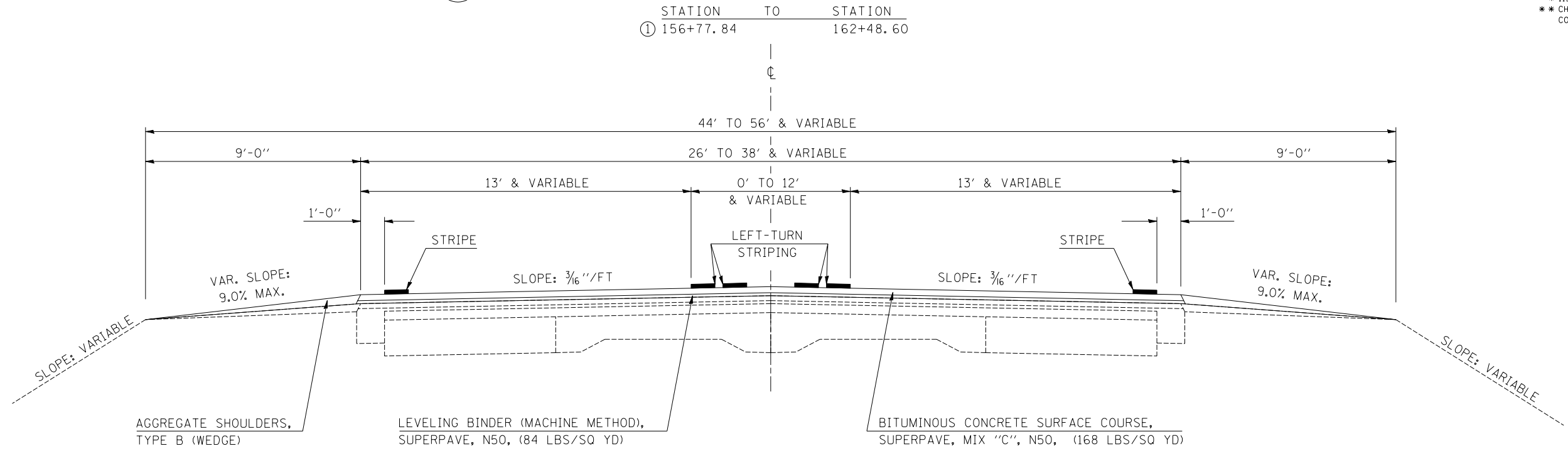
STATION	TO	STATION
③ 98+42.52		99+57.35 ③



5 PROPOSED TYPICAL CROSS SECTION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	14

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	15

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

#5000605 STORM SEWER REPAIR

VERMILION COUNTY

<u>STATION</u>	<u>FOOT</u>
119+00	30.0
128+00	30.0
<u>TOTAL</u>	<u>60.0</u>

EARTHWORK SCHEDULE

			20200100 EARTH EXCAVATION (CU YD)	ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	*20400800 FURNISHED EXCAVATION (CU YD)
<u>STATION TO STATION</u>						
<u>CHAMPAIGN COUNTY</u>						
PARK AVE	LT 0+00	LT 0+27.5	2.1	1.6	0.8	0.8
PARK AVE	LT 0+27.5	LT 0+55	2.1	1.6	0.8	0.8
PARK AVE	RT 0+00	RT 0+27.5	2.9	2.2	1.9	0.3
PARK AVE	RT 0+27.5	RT 0+55	2.9	2.2	1.9	0.3
SN 010-8320	482+00	487+00	217.0	162.8	195.0	-32.3
PENNFIELD RD	LT 0+00	LT 0+76.3	2.9	2.2	0.0	2.2
PENNFIELD RD	RT 0+00	RT 0+66	2.5	1.9	0.0	1.9
AR CULVERT	5+99.90	6+00	0.0	0.0	0.0	0.0
AR CULVERT	6+00	7+00	4.1	3.1	9.1	-6.0
AR CULVERT	7+00	7+50	6.5	4.9	8.5	-3.6
AR CULVERT	7+50	7+90	9.7	7.3	12.8	-5.5
AR CULVERT	7+90	7+94.58	1.5	1.1	1.3	-0.2
AR CULVERT	7+94.58	8+00	1.8	1.4	1.0	0.4
AR CULVERT	8+00	8+50	14.5	10.9	7.3	3.6
AR CULVERT	8+50	9+00	13.6	10.2	2.5	7.7
AR CULVERT	9+00	9+50	9.7	7.3	2.4	4.9
AR CULVERT	9+50	9+50.1	0.0	0.0	0.0	0.0
<u>TOTAL</u>			293.8	220.4	245.3	-25.0
<u>USE</u>			294.0	220.0	245.0	-25.0

* FURNISHED EXCAVATION = EARTH EXCAVATION X ADJUSTMENT FOR SHRINKAGE (0.75) - EMBANKMENT

PLAN NOTES

THE INCIDENTAL BITUMINOUS SURFACE IS INTENDED TO RESURFACE THE EXISTING ENTRANCES, MAILBOX TURNOUTS AND SIDE ROADS IN THEIR ENTIRETY.

AGGREGATE SHOULDERS SHALL EXTEND 4' BEHIND INCIDENTAL BITUMINOUS SURFACE AREAS OR AS DIRECTED BY THE ENGINEER.

AGGREGATE SHOULDERS TYPE B WILL BE CARRIED AROUND THE RADII OF SIDE ROADS OR PLACED AS DIRECTED BY THE ENGINEER.

ALL BUTT JOINTS AND THEIR LOCATIONS ARE ILLUSTRATED BY DETAILS.

SCHEDULE OF INCIDENTAL ASPHALT SHALL BE USED IN ACCORDANCE WITH DETAILS SHOWN IN PLANS.

ALL TIE POINTS ASSOCIATED WITH PERMANENT SURVEY MARKERS TO BE ADJUSTED AND SHOWN HERE IN THE PLANS SHALL BE VERIFIED FOR ACCURACY IN THE FIELD BY ENGINEER.

LOCATIONS FOR SURVEY MARKER VAULTS SHALL BE LOCATED IN THE FIELD AND TIED OUT BY ENGINEER PRIOR TO RESURFACING.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	16

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

SCHEDULE OF QUANTITIES

21301048 EXPLORATION TRENCH 48"

CHAMPAIGN COUNTY

STATION	TO	STATION	LIN. FT.
RT 484+00		RT 486+10	210.0
LT 484+00		LT 486+10	210.0
<u>TOTAL</u>			<u>420.0</u>

21400100 GRADING AND SHAPING DITCHES

CHAMPAIGN COUNTY

	STATION	TO	STATION	FOOT
PENNFIELD RD	RT 3+90		LT 805+10	160.0
<u>TOTAL</u>				<u>160.0</u>

LANDSCAPING SCHEDULE

STATION	TO	STATION	AREA (ACRE)	28000250	25000350	25000200	25000400	25000500	25000600	25100115	
				TEMPORARY EROSION SEEDING (POUND)	SEEDING CLASS 7 (ACRE)	SEEDING CLASS 2 (ACRE)	NITROGEN FERT. (POUNDS)	PHOS FERT. (POUNDS)	POTAS. FERT. (POUNDS)	MULCH METHOD 2 (ACRE)	
<u>CHAMPAIGN COUNTY</u>											
PARK AVE	RT 425+55.57	LT 9+36.94	0.1	10	0.1	0.1	9.0	9.0	9.0	0.1	
PARK AVE	RT 9+37.04	RT 426+95.57	0.1	10	0.1	0.1	9.0	9.0	9.0	0.1	
SN 010-8320	RT 482+90	RT 486+10	0.11	11	0.11	0.11	9.9	9.9	9.9	0.11	
SN 010-8321	LT 482+90	LT 486+10	0.2	20	0.2	0.2	18.0	18.0	18.0	0.2	
PENNFIELD RD	LT 803+40.6	LT 3+19.52	0.02	2	0.02	0.02	1.8	1.8	1.8	0.02	
PENNFIELD RD	RT 2+12.43	RT 804+49.55	0.02	2	0.02	0.02	1.8	1.8	1.8	0.02	
PENNFIELD RD	RT 3+90	LT 805+10	0.01	1	0.01	0.01	0.9	0.9	0.9	0.01	
AR CULVERT	LT 5+50	LT 10+50	0.2	0	0.2	0.2	18	18	18	0.2	
AR CULVERT	RT 6+76.06	RT 9+50	0.1	0	0.1	0.1	9	9	9	0.1	
<u>TOTAL</u>			<u>0.86</u>	<u>56.00</u>	<u>0.86</u>	<u>0.86</u>	<u>77.40</u>	<u>77.40</u>	<u>77.40</u>	<u>0.86</u>	
<u>USE</u>			<u>0.9</u>	<u>56</u>	<u>0.9</u>	<u>0.9</u>	<u>77</u>	<u>77</u>	<u>77</u>	<u>0.9</u>	

EROSION CONTROL SCHEDULE

STATION	28000300	28000500
	TEMPORARY DITCH CHECKS (EACH)	INLET & PIPE PROTECTION (EACH)
<u>CHAMPAIGN COUNTY</u>		
RT 482+90	1.0	
LT 482+90	1.0	
RT 484+00	1.0	
LT 484+00	1.0	
RT 486+10	1.0	
LT 486+10	1.0	
LT 487+05.16	1.0	
LT 6+98.6	1.0	
RT 7+30.7	1.0	
RT 7+94.70		1.0
RT 8+60.6	1.0	
LT 8+90.7	1.0	
<u>TOTAL</u>		<u>1.0</u>

28000400 PERIMETER EROSION BARRIER

STATION	TO	STATION	LIN. FT.
<u>CHAMPAIGN COUNTY</u>			
RT 482+90		RT 486+10	320
LT 482+90		LT 486+10	331
RT 7+94.70		RT 7+94.70	15.0
LT 7+94.70		LT 7+94.70	15.0
<u>TOTAL</u>			<u>681.0</u>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	17

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

*28100107 STONE RIPRAP, CLASS A4

CHAMPAIGN COUNTY

STATION	TO	STATION	SQ YD
RT 484+10		RT 485+30	156.0
LT 484+55		LT 485+50	124.0
<u>TOTAL</u>			<u>280.0</u>

* THE ENGINEER MAY MODIFY LOCATIONS OF STONE RIPRAP, CLASS A4 BASED ON FIELD CONDITIONS

31101200 SUB-BASE GRANULAR MATERIAL, TYPE B, 4"

CHAMPAIGN COUNTY

	STATION	TO	STATION	SQ YD
PARK AVE	LT 9+59.43		LT 9+86.7	11.0
PARK AVE	RT 9+59.55		RT 9+86.7	17.0
PENNFIELD RD	LT 803+35.89		LT 3+24.20	26.0
PENNFIELD RD	RT 2+07.77		RT 804+54.16	23.0
<u>TOTAL</u>				<u>77.0</u>

40600980 BITUMINOUS SURFACE REMOVAL-BUTT JOINT

CHAMPAIGN COUNTY

	STATION	TO	STATION	LENGTH FT.	WIDTH FT.	AREA SQ. YDS.
	423+35		423+90	55.0	24.0	146.7
PARK AVE	9+37		9+52	15.0	22.0	36.7
PENNFIELD RD	802+68		802+98	30.0	VAR	125.0
PENNFIELD RD	804+66		804+96	30.0	VAR	83.3

SUBTOTAL 391.6

USE 392.0

VERMILION COUNTY

	67+89		67+84	45.0	26.0	130.0
	70+76		71+21	45.0	26.0	130.0
	120+55		121+00	45.0	24.0	120.0
	126+00		126+45	45.0	24.0	120.0
	162+37.6		162+48.6	11.0	166.0	203.0

SUBTOTAL 703.0

USE 703.0

TOTAL 1095.0

* 40600990 TEMPORARY RAMPS

CHAMPAIGN COUNTY

	STATION	LENGTH FOOT	WIDTH FOOT	AREA SQ YD
	423+00	24	5	13.3
PARK AVE.	9+37	22	5	12.2
PENNFIELD RD	802+68	22	5	12.2
PENNFIELD RD	804+96	22	5	12.2

SUB-TOTAL 50

VERMILION COUNTY

	67+84	26	5	14.4
	70+76	26	5	14.4
	121+00	24	5	13.3
	126+00	24	5	13.3
	162+48.6	150	5	83.3

SUB-TOTAL 139

TOTAL 189

* TEMPORARY RAMPS SHALL BE USED AT LOCATIONS SHOWN IN PLANS. IT IS THE INTENTION TO USE TEMPORARY RAMPS FOR MAJOR SIDE ROADS AND LOCATIONS WHERE BITUMINOUS SURFACE REMOVAL-BUTT JOINTS ARE CONSTRUCTED. TEMPORARY RAMPS SHALL NOT BE USED AT MINOR TOWNSHIP ROADS, PRIVATE ENTRANCES, AND COMMERCIAL ENTRANCES.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	18

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

40800040 INCIDENTAL BITUMINOUS SURFACING

STATION	AREA SQ YD	AVERAGE THICKNESS INCHES	MAILBOX TONS	FIELD ENTR. TONS	PRIV ENT. W/MBTO TONS	PRIVATE ENTR. TONS	COMMER. ENTR. TONS	SIDEROAD TONS	40800010	40800030
									BIT MATLS PR CT GALLONS	AGG PR CT TONS
<u>CHAMPAIGN COUNTY</u>										
RT 424+40	132	1.875					13.9		13.2	0.3
RT 425+05	140	1.875					14.7		14.0	0.3
RT 426+25.56 (PARK AVE)	177	1.875						18.6	17.7	0.4
LT 426+25.56	37	1.875						3.9	3.7	0.1
RT 437+10	17	1.875		1.8					1.7	0.03
LT 442+50	17	1.875		1.8					1.7	0.03
RT 448+60	17	1.875		1.8					1.7	0.03
LT 448+80	42	1.875				4.4			4.2	0.1
RT 449+25	34	1.875	3.6						3.4	0.1
RT 450+50	33	1.875	3.5						3.3	0.1
LT 450+80	41	1.875				4.3			4.1	0.1
RT 451+91	33	1.875							3.3	0.1
LT 451+91	43	1.875				4.5			4.3	0.1
LT 456+15	17	1.875		1.8					1.7	0.03
RT 462+48	17	1.875		1.8					1.7	0.03
RT 463+80	17	1.875		1.8					1.7	0.03
RT 475+67 (TR 2400 E)	44	1.875						4.6	4.4	0.1
RT 487+28	36	1.875	3.8						3.6	0.1
LT 487+37	27	1.875				2.8			2.7	0.1
RT 502+82	17	1.875		1.8					1.7	0.03
LT 503+00	17	1.875		1.8					1.7	0.03
RT 516+28 (TR 2500 E)	84	1.875						8.8	8.4	0.2
LT 516+28 (TR 2500 E)	85	1.875						8.9	8.5	0.2
LT 516+67	11	1.875		1.2					1.1	0.02
RT 523+80	43	1.875				4.5			4.3	0.1
LT 529+80	17	1.875		1.8					1.7	0.03
RT 530+30	17	1.875		1.8					1.7	0.03
LT 536+56	60	1.875			6.3				6.0	0.1
LT 537+30	17	1.875		1.8					1.7	0.03
RT 543+51	17	1.875		1.8					1.7	0.03
LT 548+86	17	1.875		1.8					1.7	0.03
RT 549+25	17	1.875		1.8					1.7	0.03
RT 569+70	11	1.875		1.2					1.1	0.02
LT 569+99 (TR 2600 E)	79	1.875						8.3	7.9	0.2
RT 570+07 (TR 2600 E)	42	1.875						4.4	4.2	0.1
RT 574+82	17	1.875		1.8					1.7	0.03
LT 574+94	17	1.875		1.8					1.7	0.03
RT 587+22	17	1.875		1.8					1.7	0.03
LT 587+23	17	1.875		1.8					1.7	0.03
LT 596+62	17	1.875		1.8					1.7	0.03
LT 597+21	63	1.875		6.6	6.6				6.3	0.1
RT 605+50	17	1.875		1.8					1.7	0.03
RT 612+56	17	1.875		1.8					1.7	0.03
LT 616+75	74	1.875		7.8	7.8				7.4	0.1

(40800040 CONTINUED NEXT PAGE)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	19

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

40800040 INCIDENTAL BITUMINOUS SURFACING (CONTD.)

STATION	AREA SQ YD	AVERAGE THICKNESS INCHES	MAILBOX TONS	FIELD ENTR. TONS	PRIV ENT. W/ MBTO TONS	PRIVATE ENTR. TONS	COMMER. ENTR. TONS	SIDEROAD TONS	40800010	40800030
									BIT MATLS PR CT GALLONS	AGG PR CT TONS
<u>CHAMPAIGN COUNTY (CONTINUED)</u>										
RT 2+67.31 (PENNFIELD RD)	600	1.875		63.0				63.0	60.0	1.2
LT 2+67.31 (PENNFIELD RD)	686	1.875		72.0				72.0	68.6	1.4
RT 4+21.37	98	1.875					10.3		9.8	0.2
RT 5+26.95	97	1.875					10.2		9.7	0.2
RT 6+43.35	72	1.875					7.6		7.2	0.1
RT 15+10	17	1.875		1.8					1.7	0.03
LT 23+00	43	1.875				4.5			4.3	0.1
RT 23+70	17	1.875		1.8					1.7	0.03
LT 24+50	43	1.875				4.5			4.3	0.1
RT 29+20	17	1.875		1.8					1.7	0.03
LT 39+00	17	1.875		1.8					1.7	0.03
RT 54+00	17	1.875		1.8					1.7	0.03
<u>CHAMPAIGN COUNTY SUBTOTAL</u>			10.8	198.1	20.7	29.6	56.6	192.6	345.2	7.2
<u>USE</u>			11.0	198.0	21.0	30.0	41.0	193.0	345.0	7.0
<u>VERMILION COUNTY</u>										
LT 57+00	17	1.875		1.8					1.7	0.03
RT 57+12	43	1.875				4.5			4.3	0.1
RT 73+00	17	1.875				1.8			1.7	0.03
RT 78+83	43	1.875				4.5			4.3	0.1
RT 80+24	32	1.875	3.4						3.2	0.1
LT 80+50	43	1.875				4.5			4.3	0.1
RT 81+00	17	1.875		1.8		1.8			1.7	0.03
RT 82+50	63	1.875			6.6	6.6			6.3	0.1
RT 93+25	17	1.875		1.8		1.8			1.7	0.03
LT 94+10	17	1.875		1.8		1.8			1.7	0.03
LT 94+57	44	1.875				4.6			4.4	0.1
LT 109+42 (TR 1700 E)	114	1.875				12.0		12.0	11.4	0.2
RT 109+45	17	1.875		1.8		1.8			1.7	0.03
RT 112+72	63	1.875			6.6				6.3	0.1
LT 154+85	17	1.875		1.8					1.7	0.03
<u>VERMILION COUNTY SUBTOTAL</u>			3.4	10.7	13.2	45.7	0.0	12.0	56.4	1.1
<u>USE</u>			4.0	11.0	7.0	46.0	0.0	12.0	56.0	1.0
<u>TOTAL QUANTITY</u>			15.0	209.0	28.0	76.0	41.0	205.0	401.0	8.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	20

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

SCHEDULE OF QUANTITIES

44000025 BITUMINOUS SURFACE REMOVAL, SPECIAL

STATION	AREA SQ YD
<u>CHAMPAIGN COUNTY</u>	
LT 426+25.56	37.0
RT 475+67 (TR 2400 E)	44.0
RT 516+28 (TR 2500 E)	84.0
LT 516+28 (TR 2500 E)	85.0
LT 569+99 (TR 2600 E)	79.0
SUBTOTAL	329.0

VERMILION COUNTY

LT 109+42 (TR 1700 E)	114.0
SUBTOTAL	114.0
<u>TOTAL QUANTITY</u>	<u>443.0</u>

44000500 COMBINATION CURB AND GUTTER REMOVAL

CHAMPAIGN COUNTY

STATION	TO	STATION	LIN. FT.
PENNFIELD RD	LT 803+35.89	LT 803+74.28	56.0
PENNFIELD RD	RT 804+25.51	RT 804+54.20	48.0
TOTAL			<u>104.0</u>

44002500 GUTTER OUTLET REMOVAL

CHAMPAIGN COUNTY

STATION	EACH	
PENNFIELD RD	LT 803+61.66	1.0
PENNFIELD RD	RT 804+41.06	1.0
TOTAL		<u>2.0</u>

48100500 AGGREGATE SHOULDERS, TYPE A 6"

CHAMPAIGN COUNTY

STATION	TO	STATION	SQ YD
LT 483+00		LT 483+94.18	47.1
RT 483+00		RT 483+94.18	47.1
LT 483+94.18		LT 485+94.18	133.4
RT 483+94.18		RT 485+94.18	133.4
LT 485+94.18		LT 486+74.18	40.0
RT 485+94.18		RT 486+74.18	40.0
TOTAL			<u>441.0</u>

60600095 CLASS SI CONCRETE OUTLET

CHAMPAIGN COUNTY

STATION	CU YD	
PENNFIELD RD	LT 803+34.89	0.56
PENNFIELD RD	LT 3+24.20	0.56
PENNFIELD RD	RT 2+07.77	0.56
PENNFIELD RD	RT 804+54.16	0.56

TOTAL 2.24

USE 2.30

60600500 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

CHAMPAIGN COUNTY

STATION	TO	STATION	LIN. FT.
PENNFIELD RD	LT 803+40.6	LT 803+55.19	16.3
PENNFIELD RD	LT 3+05.99	LT 3+19.52	16.7
PENNFIELD RD	RT 2+12.43	RT 2+29.95	21.0
PENNFIELD RD	RT 804+46.54	RT 804+49.55	3.5

TOTAL 57.5

USE 58.0

63000000 STEEL PLATE BEAM GUARDRAIL, TYPE A

CHAMPAIGN COUNTY

STATION	TO	STATION	FOOT
RT 483+18.19		RT 484+55.69	137.5
LT 484+32.66		LT 484+70.16	37.5
RT 485+18.19		RT 485+55.69	37.5
LT 485+32.66		LT 486+70.16	137.5
TOTAL			<u>350.0</u>

63000005 STEEL PLATE BEAM GUARDRAIL, TYPE B

CHAMPAIGN COUNTY

STATION	TO	STATION	FOOT
RT 484+55.69		RT 484+80.69	25.0
LT 484+70.16		LT 484+95.16	25.0
RT 485+18.19		RT 484+93.19	25.0
LT 485+32.66		LT 485+07.66	25.0
TOTAL			<u>100.0</u>

63000025 STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE

CHAMPAIGN COUNTY

STATION	TO	STATION	FOOT
RT 484+80.69		RT 484+93.19	12.5
LT 484+95.16		LT 485+07.66	12.5
TOTAL			<u>25.0</u>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	21

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

SCHEDULE OF DRAINAGE STRUCTURES

	STATION	50100300 REM EXIST STRUCT NO. 1 (EACH)	50100400 REM EXIST STRUCT NO. 2 (EACH)	54001000 BOX CUL END SECT (EACH)	54021204 PCBC 12 X 4 (M273) (FOOT)	54207162 P CUL 1 RC-E EQRS 27 (FOOT)	54214512 PRC FL END S EQ RS 27 (EACH)	USFL	DSFL
SN 010-8320	484+77.00	1.0							
SN 010-8320	RT/L 484+94.18				56.0				
SN 010-8320	RT 484+86.94			1.0			744.30		
SN 010-8320	LT 485+01.41			1.0				744.20	
	RT/L 7+94.70		1.0			40.0	95.39		95.38
	<u>TOTALS</u>	<u>1.0</u>	<u>1.0</u>	<u>2.0</u>	<u>56.0</u>	<u>40.0</u>			

20900110 POROUS GRANULAR BACKFILL

STATION	TO	STATION	CU YD
<u>CHAMPAIGN COUNTY</u>			
484+94.18		484+94.18	59.0
7+94.70		7+94.70	14.0
		<u>SUBTOTAL</u>	<u>73.0</u>
<u>VERMILION COUNTY</u>			
119+00		119+00	11.0
128+00		128+00	11.0
		<u>SUBTOTAL</u>	<u>22.0</u>
		<u>TOTAL</u>	<u>95.0</u>

28101500 RIPRAP, SPECIAL

STATION	TO	STATION	SQ YD
484+94.18		484+94.18	112.0
		<u>TOTAL</u>	<u>112.0</u>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	22

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

SCHEDULE OF QUANTITIES

63100167 TRAFFIC BARRIER TERMINAL
TYPE 1, SPECIAL (TANGENT)

CHAMPAIGN COUNTY

STATION	TO	STATION	EACH
RT 482+68.19		RT 483+18.19	1.0
LT 483+82.66		LT 484+32.66	1.0
RT 486+05.69		RT 485+55.69	1.0
LT 487+20.16		LT 486+70.16	1.0
RT 535+29		RT 535+79	1.0
RT 538+16		RT 538+66	1.0
LT 539+33		LT 539+83	1.0
RT 543+72		RT 544+22	1.0
LT 544+03		LT 544+53	1.0
RT 546+34		RT 546+84	1.0
LT 547+03		LT 547+53	1.0
<u>TOTAL</u>			<u>11.0</u>

63200310 GUARDRAIL REMOVAL

CHAMPAIGN COUNTY

STATION	TO	STATION	FOOT
RT 482+37		RT 485+37	300.0
LT 483+54		LT 486+54	300.0
RT 535+54		RT 535+79	25.0
RT 538+16		RT 538+41	25.0
LT 539+33		LT 539+58	25.0
RT 543+72		RT 544+22	50.0
RT 546+34		RT 546+59	25.0
LT 544+28		LT 544+53	25.0
LT 547+03		LT 547+28	25.0
<u>TOTAL</u>			<u>800.0</u>

66700110 PERMANENT SURVEY MARKER
TO BE ADJUSTED

STATION EACH

CHAMPAIGN COUNTY

516+00	1.0
569+77	1.0
2+87	1.0
56+16	1.0

VERMILION COUNTY

83+25	1.0
109+44	1.0
* 162+33	1.0

TOTAL 7.0

* NW CORNER SEC 1-21-14 (MON. VAULT)
 NO TIES, TO BE TIED BY ENGINEER IN FIELD

78000100 THERMOPLASTIC PAVEMENT
MARKING-LTRS. & SYMB.

VERMILION COUNTY

STATION	SQ FT
161+10.3	15.6
161+62.30	15.6
162+14.30	15.6
<u>TOTAL</u>	<u>46.8</u>
<u>USE</u>	<u>47.0</u>

78000600 THERMOPLASTIC PAVEMENT
MARKING-LINE 12" (YELLOW)

VERMILION COUNTY

STATION	TO	STATION	LIN FT
157+70		161+10.30	105.0
<u>TOTAL</u>			<u>105.0</u>

78000650 THERMOPLASTIC PAVEMENT
MARKING-LINE 24" (WHITE)

VERMILION COUNTY

STATION	LIN FT	
162+18.32	35.0	
162+34.30	15.0	
<u>TOTAL</u>		<u>50.0</u>

*78100100 RAISED REFLECTIVE MARKER
(CRYSTAL MONODIRECTIONAL) (40' CTS)

VERMILION COUNTY

STATION	TO	STATION	EACH
161+10.30		162+34.30	6.0
<u>TOTAL</u>			<u>6.0</u>

*78100100 RAISED REFLECTIVE MARKER
(AMBER BIDIRECTIONAL) (40' CTS)

VERMILION COUNTY

STATION	TO	STATION	EACH
156+50		161+10.30	23.0
161+10.30		162+34.30	6.0
<u>TOTAL</u>			<u>29.0</u>

*QUANTITY DOES NOT REFLECT ENTIRE JOB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	.	**	72	23

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

SCHEDULE OF QUANTITIES

78000200 THERMOPLASTIC PAVEMENT
MARKING-LINE 4" (WHITE)

VERMILION COUNTY

STATION	TO	STATION	LIN FT
156+50 RT		161+47.62 RT	498.0
156+50 LT		161+47.62 LT	498.0
TURN LANE 160+10.30		162+34.30	124.0
<u>TOTAL</u>			<u>1120.0</u>

78000200 THERMOPLASTIC PAVEMENT
MARKING-LINE 4" (YELLOW)

VERMILION COUNTY

STATION	TO	STATION	LIN FT
156+00 RT		157+70 RT	170.0
156+50 LT		157+70 LT	120.0
(DOUBLE) 157+70 RT		160+13.40 RT	487.0
(DOUBLE) 160+13.40 RT		161+10.30 RT	194.0
(DOUBLE) 157+70 LT		161+10.30 LT	681.0
(DOUBLE) 161+10.30 LT		162+34.30 LT	248.0
<u>TOTAL</u>			<u>1900.0</u>

78201000 TERMINAL MARKER DIRECT APPLIED

CHAMPAIGN COUNTY

STATION	EACH	
RT 482+68.19	1.0	
LT 483+82.66	1.0	
RT 486+05.60	1.0	
LT 487+20.16	1.0	
RT 535+29	1.0	
RT 538+66	1.0	
LT 539+83	1.0	
RT 543+72	1.0	
LT 544+03	1.0	
RT 546+84	1.0	
LT 547+53	1.0	
<u>TOTAL</u>		<u>11.0</u>

X0301232 SURVEY MARKER VAULT

STATION EACH

CHAMPAIGN COUNTY

CL 515+96 1.0 (PK NAIL & WASHER)

VERMILION COUNTY

3.5" RT 56+16 1.0 (PK NAIL & WASHER)

CHAMPAIGN TOTAL 1.0

VERMILION TOTAL 1.0

TOTAL 2.0

*X0301741 AERIAL SPEED CHECK MARKING

VERMILION COUNTY

STATION LIN FT

558+64 4.0
 552+04 4.0

TOTAL 8.0

*PRIOR TO AERIAL SPEED CHECK MARKING PLACEMENT
 THE ENGINEER SHALL CONTACT:
 H. JAY HANNER OF DISTRICT 5 OPERATIONS
 AT (217)466-7238 FOR COORDINATION WITH
 ILLINOIS STATE POLICE IN REGARDS TO THE
 CORRECT PLACEMENT OF THE MARKINGS

X0323115 REFLECTOR MARKER, TYPE A

CHAMPAIGN COUNTY

STATION TO STATION EACH

RT 483+33.195 RT 485+33.195 3.0
 LT 484+55.16 LT 486+55.16 3.0

TOTAL 6.0

X0324058 OUTLET (SPECIAL)

CHAMPAIGN COUNTY

STATION EACH

LT 3+00.72 1.0
 RT 804+40.99 1.0

TOTAL 2.0

X3560120 BITUMINOUS CONCRETE BASE COURSE
WIDENING, SUPERPAVE, 8"

CHAMPAIGN COUNTY

STATION TO STATION SQ. YD.

PARK AVE LT 9+59.43 LT 9+86.7 9.0
 PARK AVE RT 9+59.55 RT 9+86.7 14.0

TOTAL 23.0

Z0014700 CULVERTS TO BE CLEANED

CHAMPAIGN COUNTY

STATION EACH

RT 4+20 1.0
 RT 5+28 1.0
 RT 6+44 1.0

TOTAL 3.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	24

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

PARTIAL DEPTH PATCHING

STATION	DIRECTION	LANE	LENGTH (FT)	WIDTH (FT)	EXISTING OVERLAY THICKNESS (IN)	PARTIAL DEPTH REMOVAL X4401705 (SQ YD)	BIT MIX FOR PATCHING Z0004800 (TON)
CHAMPAIGN COUNTY							
423+43	EB	DRIVING	4	13	4 1/4	5.8	2.4
423+87	EB	DRIVING	4	13	4 1/4	5.8	2.4
423+87	WB	DRIVING	4	13	4 1/4	5.8	2.4
425+87	EB	DRIVING	6	13	4 1/4	8.7	3.5
426+52	WB	DRIVING	4	13	4 1/4	5.8	2.4
427+00	EB	DRIVING	4	13	4 1/4	5.8	2.4
427+00	WB	DRIVING	4	13	4 1/4	5.8	2.4
427+28	EB	DRIVING	4	13	4 1/4	5.8	2.4
427+28	WB	DRIVING	4	13	4 1/4	5.8	2.4
427+81	EB	DRIVING	6	13	4 1/4	8.7	3.5
427+81	WB	DRIVING	4	13	4 1/4	5.8	2.4
428+84	EB	DRIVING	4	13	4 1/4	5.8	2.4
428+84	WB	DRIVING	4	13	4 1/4	5.8	2.4
428+98	WB	DRIVING	4	13	4 1/4	5.8	2.4
430+54	WB	DRIVING	8	13	4 1/4	11.6	4.7
431+05	WB	DRIVING	4	13	4 1/4	5.8	2.4
431+61	EB	DRIVING	4	13	4 1/4	5.8	2.4
434+50	WB	DRIVING	6	13	4 1/4	8.7	3.5
436+35	WB	DRIVING	4	13	4 1/4	5.8	2.4
436+35	EB	DRIVING	4	13	4 1/4	5.8	2.4
437+75	EB	DRIVING	8	13	4 1/4	11.6	4.7
439+77	EB	DRIVING	4	13	4 1/4	5.8	2.4
439+77	WB	DRIVING	4	13	4 1/4	5.8	2.4
441+89	EB	DRIVING	4	13	4 1/4	5.8	2.4
441+89	WB	DRIVING	4	13	4 1/4	5.8	2.4
442+93	WB	DRIVING	8	13	4 1/4	11.6	4.7
444+02	WB	DRIVING	4	13	4 1/4	5.8	2.4
444+02	EB	DRIVING	4	13	4 1/4	5.8	2.4
446+20	EB	DRIVING	6	13	4 1/4	8.7	3.5
447+07	EB	DRIVING	4	13	4 1/4	5.8	2.4
447+07	WB	DRIVING	4	13	4 1/4	5.8	2.4
447+95	WB	DRIVING	4	13	4 1/4	5.8	2.4
447+95	EB	DRIVING	4	13	4 1/4	5.8	2.4
449+50	EB	DRIVING	4	13	4 1/4	5.8	2.4
450+47	EB	DRIVING	4	13	4 1/4	5.8	2.4
451+83	EB	DRIVING	4	13	4 1/4	5.8	2.4
453+43	EB	DRIVING	6	13	4 1/4	8.7	3.5
453+43	WB	DRIVING	4	13	4 1/4	5.8	2.4
454+31	EB	DRIVING	6	13	4 1/4	8.7	3.5
454+31	WB	DRIVING	6	13	4 1/4	8.7	3.5
458+38	WB	DRIVING	4	13	4 1/4	5.8	2.4
458+38	EB	DRIVING	4	13	4 1/4	5.8	2.4
464+74	EB	DRIVING	6	13	4 1/4	8.7	3.5
467+58	WB	DRIVING	4	13	4 1/4	5.8	2.4

PARTIAL DEPTH PATCHING (CONTINUED)

STATION	DIRECTION	LANE	LENGTH (FT)	WIDTH (FT)	EXISTING OVERLAY THICKNESS (IN)	PARTIAL DEPTH REMOVAL X4401705 (SQ YD)	BIT MIX FOR PATCHING Z0004800 (TON)
468+34	WB	DRIVING	4	13	4 1/4	5.8	2.4
468+34	EB	DRIVING	4	13	4 1/4	5.8	2.4
469+20	EB	DRIVING	4	13	4 1/4	5.8	2.4
469+20	WB	DRIVING	4	13	4 1/4	5.8	2.4
470+10	WB	DRIVING	4	13	4 1/4	5.8	2.4
470+10	EB	DRIVING	4	13	4 1/4	5.8	2.4
471+62	EB	DRIVING	8	13	4 1/4	11.6	4.7
472+12	EB	DRIVING	4	13	4 1/4	5.8	2.4
472+68	EB	DRIVING	4	13	4 1/4	5.8	2.4
472+94	WB	DRIVING	6	13	4 1/4	8.7	3.5
473+20	WB	DRIVING	4	13	4 1/4	5.8	2.4
473+57	WB	DRIVING	15	4	4 1/4	6.7	2.7
473+67	EB	DRIVING	8	13	4 1/4	11.6	4.7
473+67	WB	DRIVING	8	13	4 1/4	11.6	4.7
476+25	EB	DRIVING	4	13	4 1/4	5.8	2.4
479+29	EB	DRIVING	6	13	4 1/4	8.7	3.5
479+29	WB	DRIVING	6	13	4 1/4	8.7	3.5
481+00	EB	DRIVING	6	13	4 1/4	8.7	3.5
481+00	WB	DRIVING	8	13	4 1/4	11.6	4.7
481+12	EB	DRIVING	8	13	4 1/4	11.6	4.7
481+12	WB	DRIVING	4	13	4 1/4	5.8	2.4
482+87	WB	DRIVING	4	13	4 1/4	5.8	2.4
482+87	EB	DRIVING	6	13	4 1/4	8.7	3.5
484+94	EB	DRIVING	6	13	4 1/4	8.7	3.5
484+94	WB	DRIVING	6	13	4 1/4	8.7	3.5
485+96	WB	DRIVING	6	13	4 1/4	8.7	3.5
486+97	EB	DRIVING	6	13	4 1/4	8.7	3.5
487+30	WB	DRIVING	6	13	4 1/4	8.7	3.5
488+13	EB	DRIVING	4	13	4 1/4	5.8	2.4
488+13	WB	DRIVING	4	13	4 1/4	5.8	2.4
491+58	EB	DRIVING	6	13	4 1/4	8.7	3.5
492+46	EB	DRIVING	6	13	4 1/4	8.7	3.5
492+46	WB	DRIVING	6	13	4 1/4	8.7	3.5
493+54	WB	DRIVING	4	13	4 1/4	5.8	2.4
493+54	EB	DRIVING	4	13	4 1/4	5.8	2.4
494+61	EB	DRIVING	12	13	4 1/4	17.3	7.0
496+32	EB	DRIVING	4	13	4 1/4	5.8	2.4
496+32	WB	DRIVING	4	13	4 1/4	5.8	2.4
498+21	EB	DRIVING	8	13	4 1/4	11.6	4.7
498+21	WB	DRIVING	4	13	4 1/4	5.8	2.4
499+43	EB	DRIVING	4	13	4 1/4	5.8	2.4
499+43	WB	DRIVING	4	13	4 1/4	5.8	2.4
501+00	WB	DRIVING	6	13	4 1/4	8.7	3.5
502+46	EB	DRIVING	4	13	4 1/4	5.8	2.4
502+46	WB	DRIVING	4	13	4 1/4	5.8	2.4

PAGE TOTAL 644.6 263.4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	25

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

PARTIAL DEPTH PATCHING (CONTINUED)

STATION	DIRECTION	LANE	LENGTH (FT)	WIDTH (FT)	EXISTING OVERLAY THICKNESS (IN)	PARTIAL DEPTH REMOVAL X4401705 (SQ YD)	BIT MIX FOR PATCHING Z0004800 (TON)
CHAMPAIGN COUNTY (CONTINUED)							
503+64	WB	DRIVING	4	13	4 1/4	5.8	2.4
503+64	EB	DRIVING	4	13	4 1/4	5.8	2.4
505+45	EB	DRIVING	14	13	4 1/4	20.2	8.2
505+45	WB	DRIVING	10	13	4 1/4	14.4	5.8
505+62	WB	DRIVING	4	13	4 1/4	5.8	2.4
506+21	EB	DRIVING	4	13	4 1/4	5.8	2.4
506+74	EB	DRIVING	10	13	4 1/4	14.4	5.8
507+61	EB	DRIVING	4	13	4 1/4	5.8	2.4
507+61	WB	DRIVING	4	13	4 1/4	5.8	2.4
508+57	EB	DRIVING	4	13	4 1/4	5.8	2.4
508+57	WB	DRIVING	4	13	4 1/4	5.8	2.4
510+76	EB	DRIVING	4	13	4 1/4	5.8	2.4
510+76	WB	DRIVING	4	13	4 1/4	5.8	2.4
511+77	EB	DRIVING	4	13	4 1/4	5.8	2.4
511+77	WB	DRIVING	4	13	4 1/4	5.8	2.4
514+24	EB	DRIVING	4	13	4 1/4	5.8	2.4
514+24	WB	DRIVING	4	13	4 1/4	5.8	2.4
515+03	EB	DRIVING	4	13	4 1/4	5.8	2.4
515+03	WB	DRIVING	4	13	4 1/4	5.8	2.4
517+74	EB	DRIVING	8	13	4 1/4	11.6	4.7
517+62	EB	DRIVING	12	13	4 1/4	17.3	7.0
517+62	WB	DRIVING	8	13	4 1/4	11.6	4.7
518+75	WB	DRIVING	4	13	4 1/4	5.8	2.4
521+64	EB	DRIVING	6	13	4 1/4	8.7	3.5
521+64	WB	DRIVING	6	13	4 1/4	8.7	3.5
524+50	EB	DRIVING	4	13	4 1/4	5.8	2.4
524+50	WB	DRIVING	6	13	4 1/4	8.7	3.5
526+57	EB	DRIVING	4	13	4 1/4	5.8	2.4
527+47	EB	DRIVING	4	13	4 1/4	5.8	2.4
527+47	WB	DRIVING	4	13	4 1/4	5.8	2.4
529+83	EB	DRIVING	4	13	4 1/4	5.8	2.4
529+83	WB	DRIVING	4	13	4 1/4	5.8	2.4
531+28	EB	DRIVING	4	13	4 1/4	5.8	2.4
531+28	WB	DRIVING	4	13	4 1/4	5.8	2.4
532+49	EB	DRIVING	4	13	4 1/4	5.8	2.4
532+49	WB	DRIVING	4	13	4 1/4	5.8	2.4
533+34	EB	DRIVING	4	13	4 1/4	5.8	2.4
533+34	WB	DRIVING	4	13	4 1/4	5.8	2.4
535+19	EB	DRIVING	4	13	4 1/4	5.8	2.4
535+19	WB	DRIVING	8	13	4 1/4	11.6	4.7
535+86	EB	DRIVING	6	13	4 1/4	8.7	3.5
535+86	WB	DRIVING	10	13	4 1/4	14.4	5.8
537+22	WB	DRIVING	20	6	4 1/4	13.3	5.4
539+03	EB	DRIVING	4	13	4 1/4	5.8	2.4

PARTIAL DEPTH PATCHING (CONTINUED)

STATION	DIRECTION	LANE	LENGTH (FT)	WIDTH (FT)	EXISTING OVERLAY THICKNESS (IN)	PARTIAL DEPTH REMOVAL X4401705 (SQ YD)	BIT MIX FOR PATCHING Z0004800 (TON)
539+03	WB	DRIVING	4	13	4 1/4	5.8	2.4
539+88	EB	DRIVING	6	13	4 1/4	8.7	3.5
539+88	WB	DRIVING	10	13	4 1/4	14.4	5.8
540+45	EB	DRIVING	4	13	4 1/4	5.8	2.4
540+45	WB	DRIVING	4	13	4 1/4	5.8	2.4
543+33	EB	DRIVING	4	13	4 1/4	5.8	2.4
543+33	WB	DRIVING	4	13	4 1/4	5.8	2.4
544+22	EB	DRIVING	4	13	4 1/4	5.8	2.4
544+22	WB	DRIVING	4	13	4 1/4	5.8	2.4
545+13	WB	DRIVING	15	6	4 1/4	10.0	4.1
545+70	EB	DRIVING	4	13	4 1/4	5.8	2.4
545+70	WB	DRIVING	4	13	4 1/4	5.8	2.4
546+60	EB	DRIVING	8	13	4 1/4	11.6	4.7
546+60	WB	DRIVING	12	13	4 1/4	17.3	7.0
547+38	EB	DRIVING	4	13	4 1/4	5.8	2.4
547+38	WB	DRIVING	4	13	4 1/4	5.8	2.4
548+31	EB	DRIVING	4	13	4 1/4	5.8	2.4
548+31	WB	DRIVING	4	13	4 1/4	5.8	2.4
548+55	EB	DRIVING	6	13	4 1/4	8.7	3.5
550+73	EB	DRIVING	4	13	4 1/4	5.8	2.4
550+73	WB	DRIVING	4	13	4 1/4	5.8	2.4
551+82	EB	DRIVING	4	13	4 1/4	5.8	2.4
551+82	WB	DRIVING	4	13	4 1/4	5.8	2.4
552+88	EB	DRIVING	4	13	4 1/4	5.8	2.4
552+88	WB	DRIVING	4	13	4 1/4	5.8	2.4
553+80	EB	DRIVING	6	13	4 1/4	8.7	3.5
553+80	WB	DRIVING	6	13	4 1/4	8.7	3.5
554+71	EB	DRIVING	6	13	4 1/4	8.7	3.5
554+71	WB	DRIVING	6	13	4 1/4	8.7	3.5
556+23	EB	DRIVING	4	13	4 1/4	5.8	2.4
556+23	WB	DRIVING	4	13	4 1/4	5.8	2.4
556+93	EB	DRIVING	4	13	4 1/4	5.8	2.4
557+69	EB	DRIVING	6	13	4 1/4	8.7	3.5
557+69	WB	DRIVING	6	13	4 1/4	8.7	3.5
559+65	EB	DRIVING	4	13	4 1/4	5.8	2.4
559+65	WB	DRIVING	6	13	4 1/4	8.7	3.5
562+26	EB	DRIVING	4	13	4 1/4	5.8	2.4
562+26	WB	DRIVING	4	13	4 1/4	5.8	2.4
562+84	EB	DRIVING	4	13	4 1/4	5.8	2.4
562+84	WB	DRIVING	4	13	4 1/4	5.8	2.4
565+82	EB	DRIVING	4	13	4 1/4	5.8	2.4
565+82	WB	DRIVING	4	13	4 1/4	5.8	2.4
566+44	EB	DRIVING	4	13	4 1/4	5.8	2.4
569+52	EB	DRIVING	4	13	4 1/4	5.8	2.4
569+52	WB	DRIVING	4	13	4 1/4	5.8	2.4

PAGE TOTAL 660.6 270.4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	26

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

PARTIAL DEPTH PATCHING (CONTINUED)

STATION	DIRECTION	LANE	LENGTH (FT)	WIDTH (FT)	EXISTING OVERLAY THICKNESS (IN)	PARTIAL DEPTH REMOVAL X4401705 (SQ YD)	BIT MIX FOR PATCHING Z0004800 (TON)
CHAMPAIGN COUNTY (CONTINUED)							
569+98	EB	DRIVING	8	13	4 1/4	11.6	4.7
569+98	WB	DRIVING	8	13	4 1/4	11.6	4.7
570+77	EB	DRIVING	4	13	4 1/4	5.8	2.4
570+77	WB	DRIVING	4	13	4 1/4	5.8	2.4
571+85	EB	DRIVING	4	13	4 1/4	5.8	2.4
571+85	WB	DRIVING	4	13	4 1/4	5.8	2.4
573+15	EB	DRIVING	4	13	4 1/4	5.8	2.4
573+15	WB	DRIVING	4	13	4 1/4	5.8	2.4
574+54	EB	DRIVING	4	13	4 1/4	5.8	2.4
574+54	WB	DRIVING	4	13	4 1/4	5.8	2.4
577+17	EB	DRIVING	4	13	4 1/4	5.8	2.4
577+17	WB	DRIVING	4	13	4 1/4	5.8	2.4
581+58	EB	DRIVING	4	13	4 1/4	5.8	2.4
581+58	WB	DRIVING	4	13	4 1/4	5.8	2.4
582+16	EB	DRIVING	6	13	4 1/4	8.7	3.5
582+16	WB	DRIVING	4	13	4 1/4	5.8	2.4
583+20	EB	DRIVING	4	13	4 1/4	5.8	2.4
584+99	EB	DRIVING	4	13	4 1/4	5.8	2.4
584+99	WB	DRIVING	4	13	4 1/4	5.8	2.4
585+69	EB	DRIVING	4	13	4 1/4	5.8	2.4
586+88	EB	DRIVING	4	13	4 1/4	5.8	2.4
587+81	EB	DRIVING	4	13	4 1/4	5.8	2.4
589+65	EB	DRIVING	4	13	4 1/4	5.8	2.4
589+65	WB	DRIVING	6	13	4 1/4	8.7	3.5
590+71	EB	DRIVING	8	13	4 1/4	11.6	4.7
591+60	EB	DRIVING	6	13	4 1/4	8.7	3.5
591+60	WB	DRIVING	4	13	4 1/4	5.8	2.4
592+42	EB	DRIVING	4	13	4 1/4	5.8	2.4
592+57	EB	DRIVING	4	13	4 1/4	5.8	2.4
592+57	WB	DRIVING	4	13	4 1/4	5.8	2.4
593+74	EB	DRIVING	4	13	4 1/4	5.8	2.4
593+74	WB	DRIVING	6	13	4 1/4	8.7	3.5
594+29	EB	DRIVING	8	13	4 1/4	11.6	4.7
594+29	WB	DRIVING	8	13	4 1/4	11.6	4.7
595+00	EB	DRIVING	8	13	4 1/4	11.6	4.7
595+00	WB	DRIVING	4	13	4 1/4	5.8	2.4
595+75	EB	DRIVING	4	13	4 1/4	5.8	2.4
595+75	WB	DRIVING	4	13	4 1/4	5.8	2.4
596+89	EB	DRIVING	4	13	4 1/4	5.8	2.4
596+89	WB	DRIVING	4	13	4 1/4	5.8	2.4
598+65	EB	DRIVING	4	13	4 1/4	5.8	2.4
598+65	WB	DRIVING	4	13	4 1/4	5.8	2.4
599+82	EB	DRIVING	4	13	4 1/4	5.8	2.4
599+82	WB	DRIVING	6	13	4 1/4	8.7	3.5

PARTIAL DEPTH PATCHING (CONTINUED)

STATION	DIRECTION	LANE	LENGTH (FT)	WIDTH (FT)	EXISTING OVERLAY THICKNESS (IN)	PARTIAL DEPTH REMOVAL X4401705 (SQ YD)	BIT MIX FOR PATCHING Z0004800 (TON)
601+86	EB	DRIVING	6	13	4 1/4	8.7	3.5
602+94	EB	DRIVING	4	13	4 1/4	5.8	2.4
602+94	WB	DRIVING	4	13	4 1/4	5.8	2.4
603+45	EB	DRIVING	4	13	4 1/4	5.8	2.4
603+45	WB	DRIVING	4	13	4 1/4	5.8	2.4
605+37	EB	DRIVING	8	13	4 1/4	11.6	4.7
605+37	WB	DRIVING	4	13	4 1/4	5.8	2.4
606+36	EB	DRIVING	4	13	4 1/4	5.8	2.4
606+36	WB	DRIVING	4	13	4 1/4	5.8	2.4
606+90	EB	DRIVING	4	13	4 1/4	5.8	2.4
606+90	WB	DRIVING	4	13	4 1/4	5.8	2.4
608+26	EB	DRIVING	4	13	4 1/4	5.8	2.4
608+26	WB	DRIVING	4	13	4 1/4	5.8	2.4
609+44	EB	DRIVING	6	13	4 1/4	8.7	3.5
613+84	EB	DRIVING	4	13	4 1/4	5.8	2.4
613+84	WB	DRIVING	4	13	4 1/4	5.8	2.4
614+42	EB	DRIVING	10	13	4 1/4	14.4	5.8
614+42	WB	DRIVING	10	13	4 1/4	14.4	5.8
617+02	EB	DRIVING	4	13	4 1/4	5.8	2.4
617+02	WB	DRIVING	4	13	4 1/4	5.8	2.4
618+44	EB	DRIVING	8	13	4 1/4	11.6	4.7
618+44	WB	DRIVING	4	13	4 1/4	5.8	2.4
618+73	EB	DRIVING	4	13	4 1/4	5.8	2.4
618+73	WB	DRIVING	4	13	4 1/4	5.8	2.4
619+06	EB	DRIVING	4	13	4 1/4	5.8	2.4
619+06	WB	DRIVING	4	13	4 1/4	5.8	2.4

PAGE TOTAL 489.9 200.9

CHAMPAIGN COUNTY 1795.1 734.7

USE 1795.0 735.0

(SEE NEXT SHEET FOR VERMILION COUNTY)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	.	**	72	27

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN AND VERMILION
 CONTRACT NO. 90864

PARTIAL DEPTH PATCHING (CONTINUED)

STATION	DIRECTION	LANE	LENGTH (FT)	WIDTH (FT)	EXISTING OVERLAY THICKNESS (IN)	PARTIAL DEPTH REMOVAL X4401705 (SQ YD)	BIT MIX FOR PATCHING Z0004800 (TON)
VERMILION COUNTY							
0+39	EB	DRIVING	40	13	4 1/4	57.8	23.5
3+43	EB	DRIVING	6	13	4 1/4	8.7	3.5
3+43	WB	DRIVING	6	13	4 1/4	8.7	3.5
18+82	EB	DRIVING	4	13	4 1/4	5.8	2.4
18+82	WB	DRIVING	4	13	4 1/4	5.8	2.4
19+27	EB	DRIVING	4	13	4 1/4	5.8	2.4
19+27	WB	DRIVING	4	13	4 1/4	5.8	2.4
24+61	EB	DRIVING	4	13	4 1/4	5.8	2.4
24+61	WB	DRIVING	4	13	4 1/4	5.8	2.4
44+00	EB	DRIVING	6	13	4 1/4	8.7	3.5
44+00	WB	DRIVING	6	13	4 1/4	8.7	3.5
58+69	EB	DRIVING	4	13	4 1/4	5.8	2.4
58+69	WB	DRIVING	4	13	4 1/4	5.8	2.4
63+14	EB	DRIVING	4	13	4 1/4	5.8	2.4
63+14	WB	DRIVING	4	13	4 1/4	5.8	2.4
88+72	EB	DRIVING	4	13	4 1/4	5.8	2.4
88+72	WB	DRIVING	4	13	4 1/4	5.8	2.4
113+73	EB	DRIVING	4	13	4 1/4	5.8	2.4
113+73	WB	DRIVING	4	13	4 1/4	5.8	2.4
120+65	EB	DRIVING	4	12	4 1/4	5.3	2.2
120+65	WB	DRIVING	4	12	4 1/4	5.3	2.2
120+86	EB	DRIVING	4	12	4 1/4	5.3	2.2
120+86	WB	DRIVING	4	12	4 1/4	5.3	2.2
126+48	EB	DRIVING	4	12	4 1/4	5.3	2.2
126+48	WB	DRIVING	4	12	4 1/4	5.3	2.2
128+28	EB	DRIVING	4	12	4 1/4	5.3	2.2
128+28	WB	DRIVING	4	12	4 1/4	5.3	2.2
130+09	EB	DRIVING	4	12	4 1/4	5.3	2.2
130+09	WB	DRIVING	4	12	4 1/4	5.3	2.2
131+01	EB	DRIVING	4	12	4 1/4	5.3	2.2
131+01	WB	DRIVING	4	12	4 1/4	5.3	2.2

PARTIAL DEPTH PATCHING (CONTINUED)

STATION	DIRECTION	LANE	LENGTH (FT)	WIDTH (FT)	EXISTING OVERLAY THICKNESS (IN)	PARTIAL DEPTH REMOVAL X4401705 (SQ YD)	BIT MIX FOR PATCHING Z0004800 (TON)
VERMILION COUNTY (CONTINUED)							
132+17	EB	DRIVING	4	13	4 1/4	5.8	2.4
132+17	WB	DRIVING	4	13	4 1/4	5.8	2.4
132+35	EB	DRIVING	4	13	4 1/4	5.8	2.4
132+35	WB	DRIVING	4	13	4 1/4	5.8	2.4
135+41	EB	DRIVING	4	13	4 1/4	5.8	2.4
135+41	WB	DRIVING	4	13	4 1/4	5.8	2.4
141+87	EB	DRIVING	4	13	4 1/4	5.8	2.4
141+87	WB	DRIVING	4	13	4 1/4	5.8	2.4
157+57	EB	DRIVING	4	13	4 1/4	5.8	2.4
157+57	WB	DRIVING	4	13	4 1/4	5.8	2.4
PAGE TOTAL						295.4	121.5
VERMILION COUNTY						295.4	121.5
USE						295.0	122.0
CHAMPAIGN COUNTY TOTAL						1795.1	734.7
USE						1795.0	735.0
VERMILION COUNTY TOTAL						295.4	121.5
USE						295.0	122.0
(COMBINED TOTAL) USE						2090.0	857.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	.	**	72	28

SCHEDULE OF QUANTITIES

* 113(RS-5,BR) & 114RS-2
** CHAMPAIGN AND VERMILION
CONTRACT NO. 90864

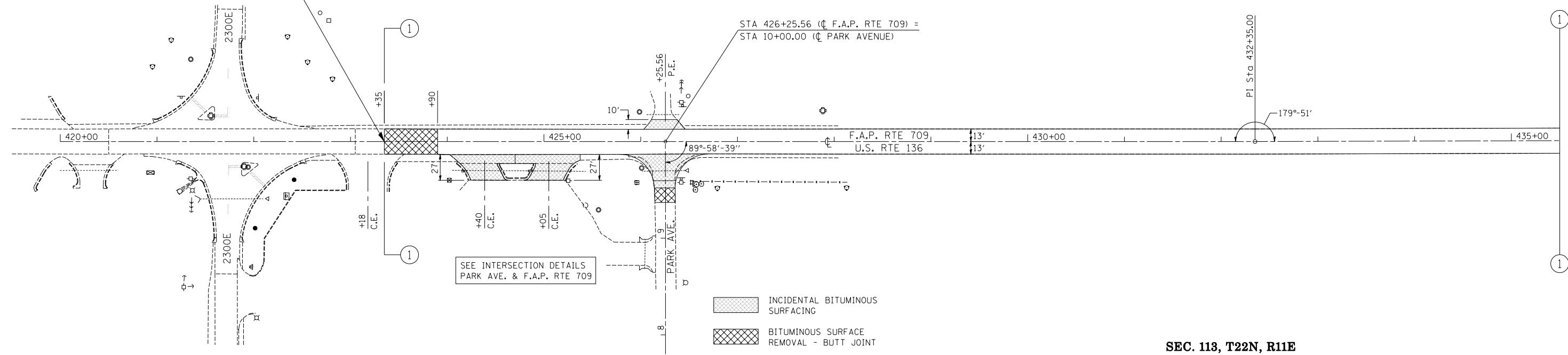
PAVEMENT PATCHING, CLASS D

STATION	DIRECTION	LANE	LENGTH (FT)	WIDTH (FT)	DEPTH (IN)	PATCH AREA		
						TYPE II SQ YD	TYPE III SQ YD	TYPE IV SQ YD
<u>CHAMPAIGN COUNTY</u>								
423+43	WB	DRIVING	12	13	11		17.3	
431+05	EB	DRIVING	8	13	11	11.6		
433+71	EB	DRIVING	8	13	11	11.6		
432+71	WB	DRIVING	8	13	11	11.6		
461+18	EB	DRIVING	10	13	11		14.4	
464+98	EB	DRIVING	4	13	11	5.8		
464+98	WB	DRIVING	4	13	11	5.8		
467+58	EB	DRIVING	10	13	11		14.4	
472+94	EB	DRIVING	10	13	11		14.4	
484+94.18	EB/WB	DRIVING	VAR.	26	11			117.0
494+40	EB	DRIVING	8	13	11	11.6		
7+94.70	EB/WB	DRIVING	11.4	26	11			32.9
<u>CHAMPAIGN COUNTY</u>						57.8	60.7	149.9
<u>USE</u>						<u>58.0</u>	<u>61.0</u>	<u>150.0</u>
<u>VERMILION COUNTY</u>								
119+00	EB/WB	DRIVING	8	24	12			21.3
119+24	EB	DRIVING	10	13	12		14.4	
119+24	WB	DRIVING	12	13	12		17.3	
128+00	EB/WB	DRIVING	8	24	12			21.3
<u>VERMILION COUNTY</u>						0.0	31.6	42.6
<u>USE</u>						<u>0.0</u>	<u>32.0</u>	<u>43.0</u>

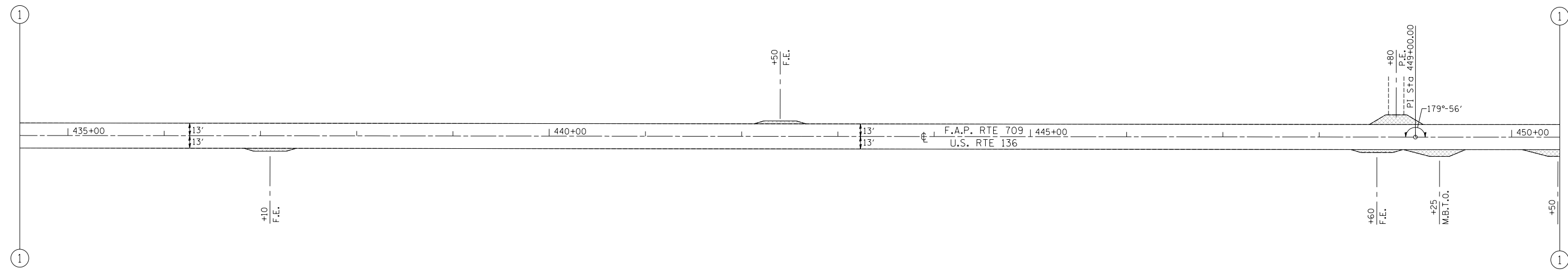
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	29
STA. 423+00		TO STA. 450+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				



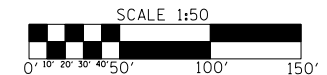
SECTION 113(RS-5, BR) & 114RS-2
BEGINS STATION 423+35.00



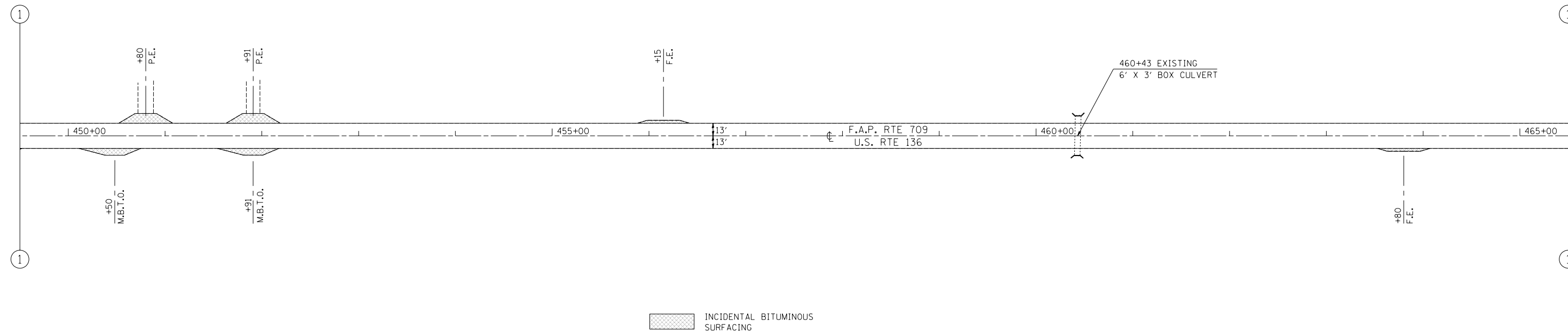
SEC. 113, T22N, R11E



SEC. 113, T22N, R11E

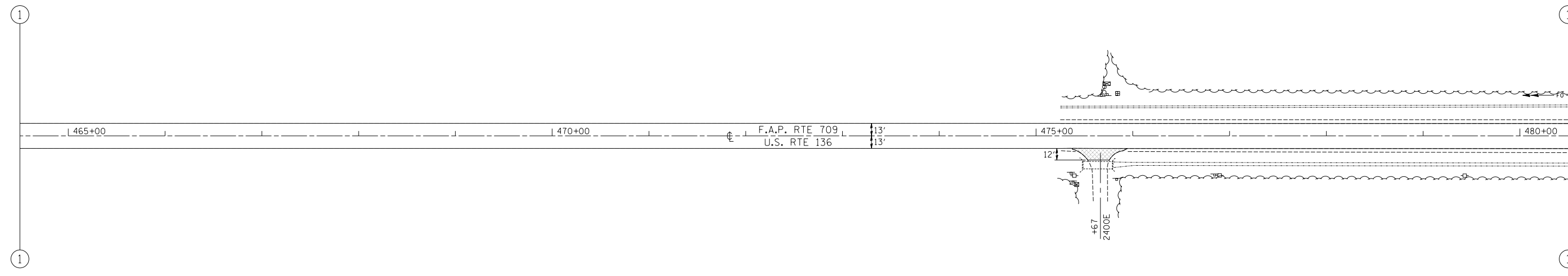


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	30
STA. 450+00		TO STA. 480+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				



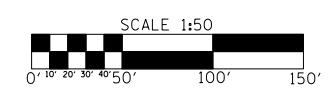
INCIDENTAL BITUMINOUS SURFACING

SEC. 113, T22N, R11E



INCIDENTAL BITUMINOUS SURFACING

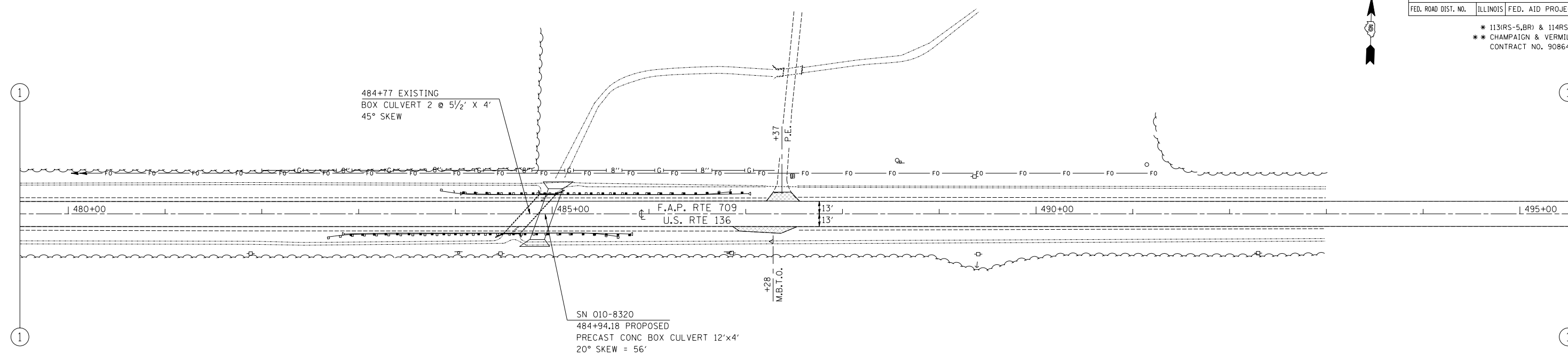
SEC. 113, T22N, R11E



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	31
STA. 480+00		TO STA. 510+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



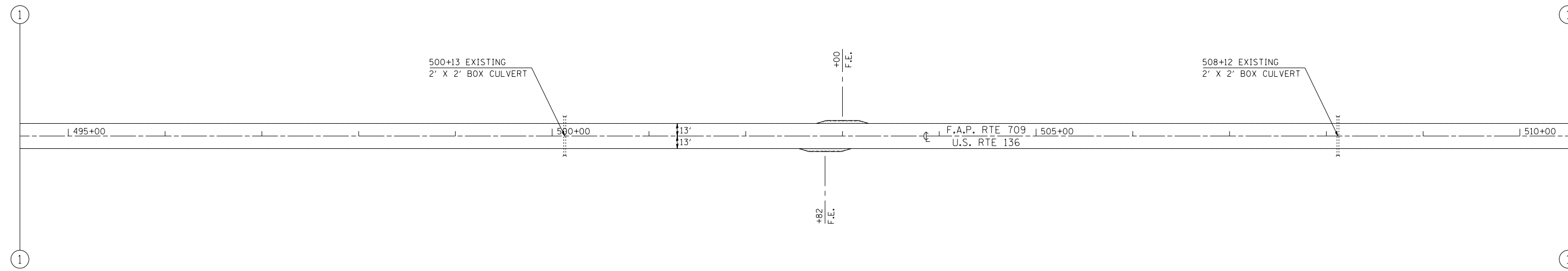
* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864



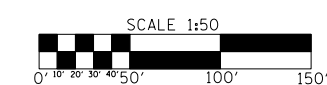
SEE BOX CULVERT DETAIL

INCIDENTAL BITUMINOUS SURFACING

SEC. 113, T22N, R11E

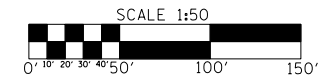
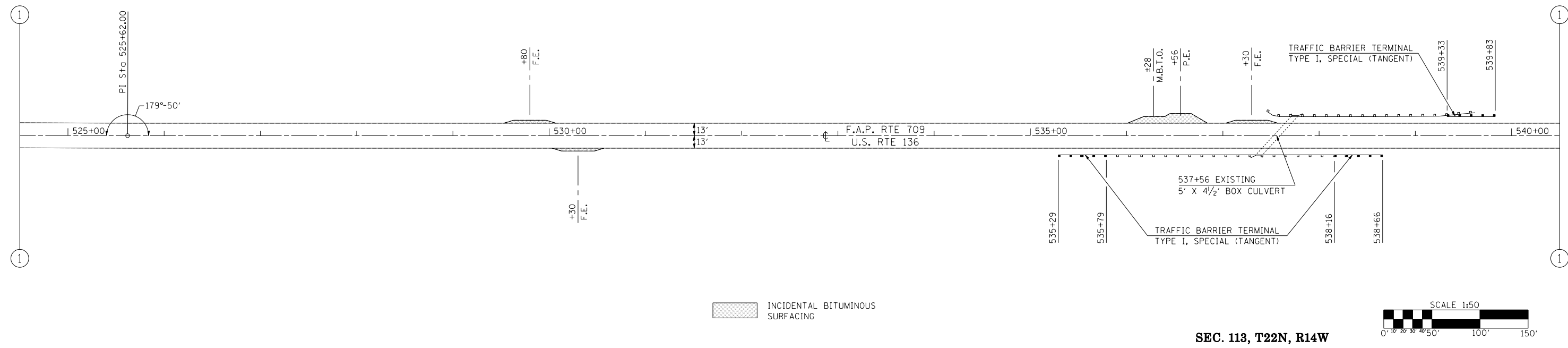
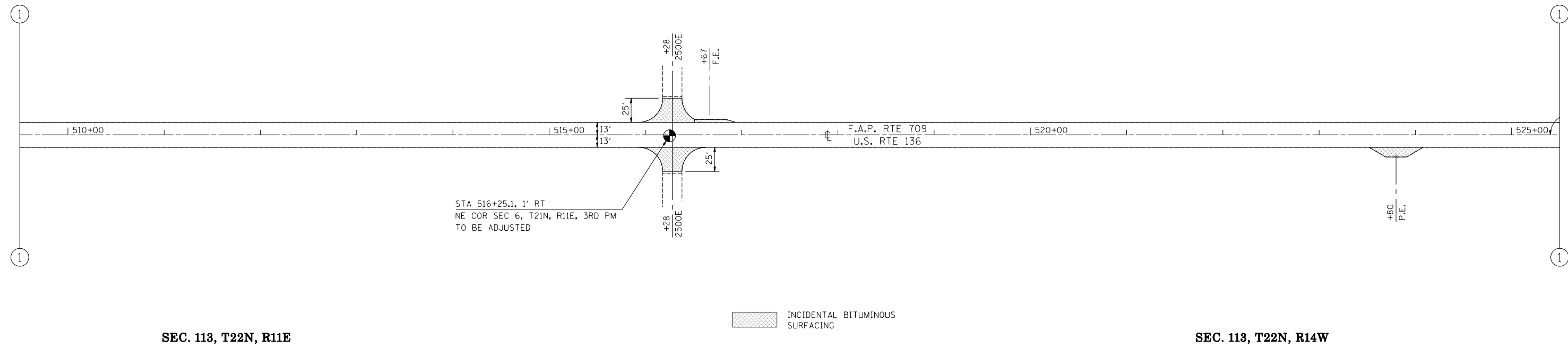


INCIDENTAL BITUMINOUS SURFACING



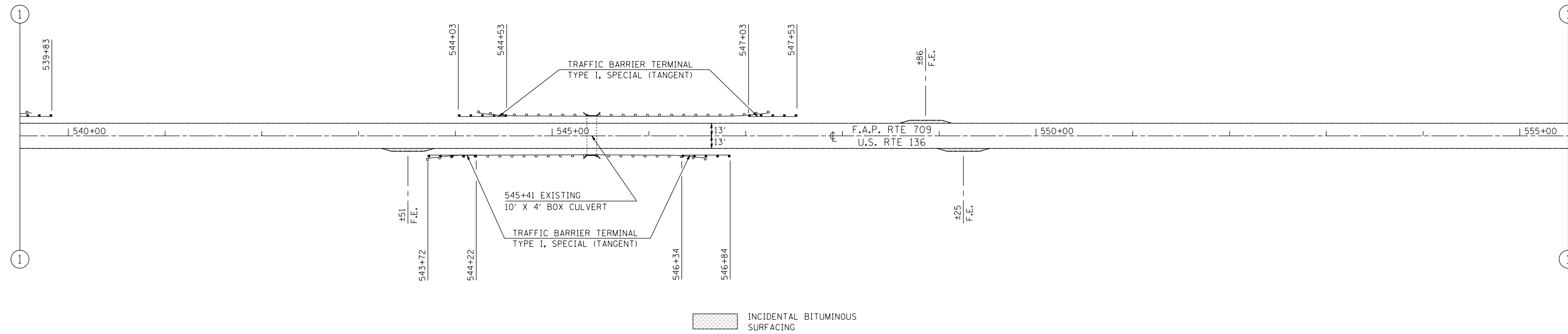
SEC. 113, T22N, R11E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	32
STA. 510+00		TO STA. 540+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				

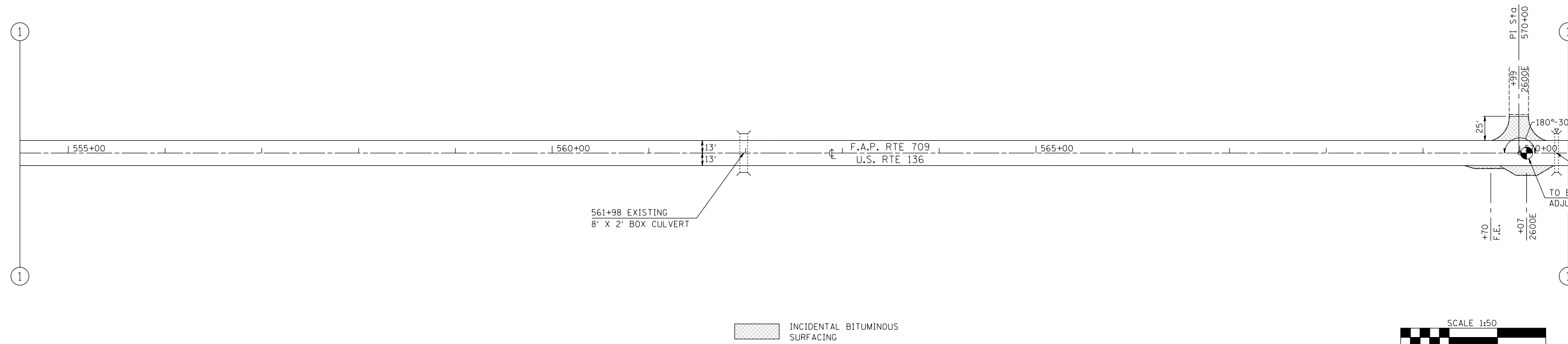


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	33
STA. 540+00 TO STA. 570+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

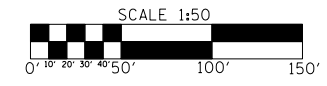
* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864



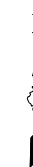
SEC. 113, T22N, R14W



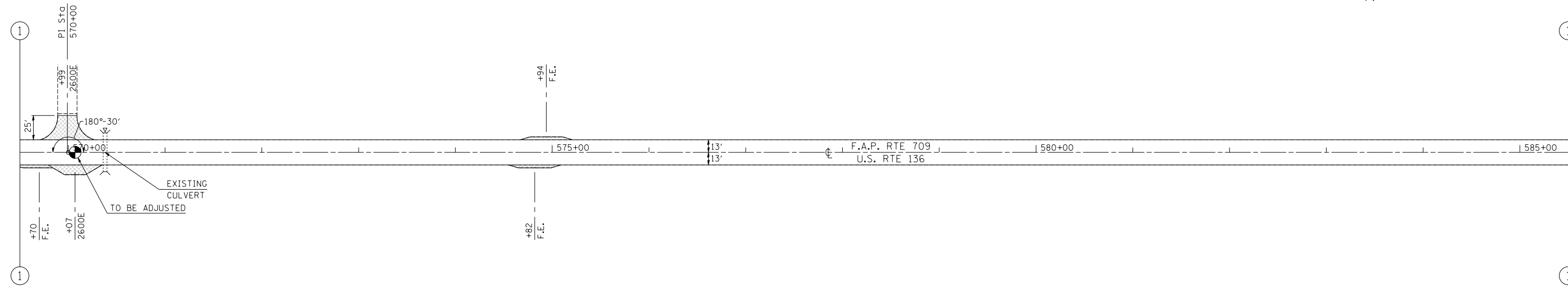
SEC. 113, T22N, R14W



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	34
STA. 570+00		TO STA. 600+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

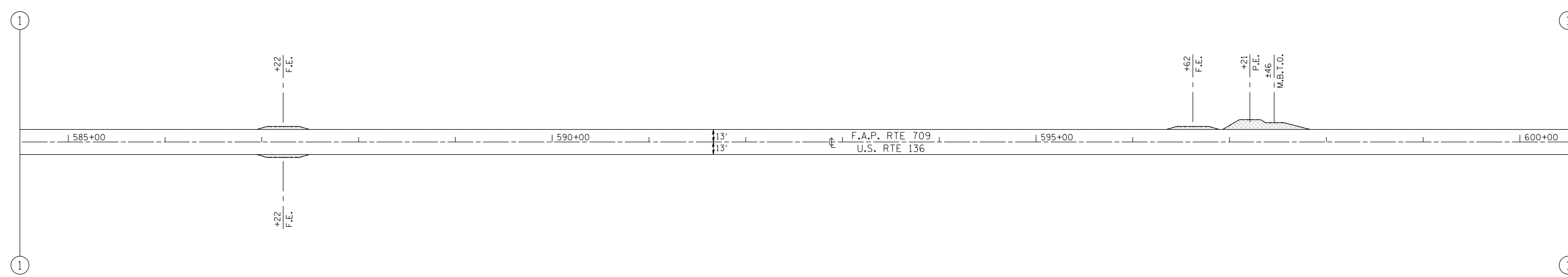


* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864



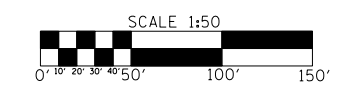
INCIDENTAL BITUMINOUS SURFACING

SEC. 113, T22N, R14W

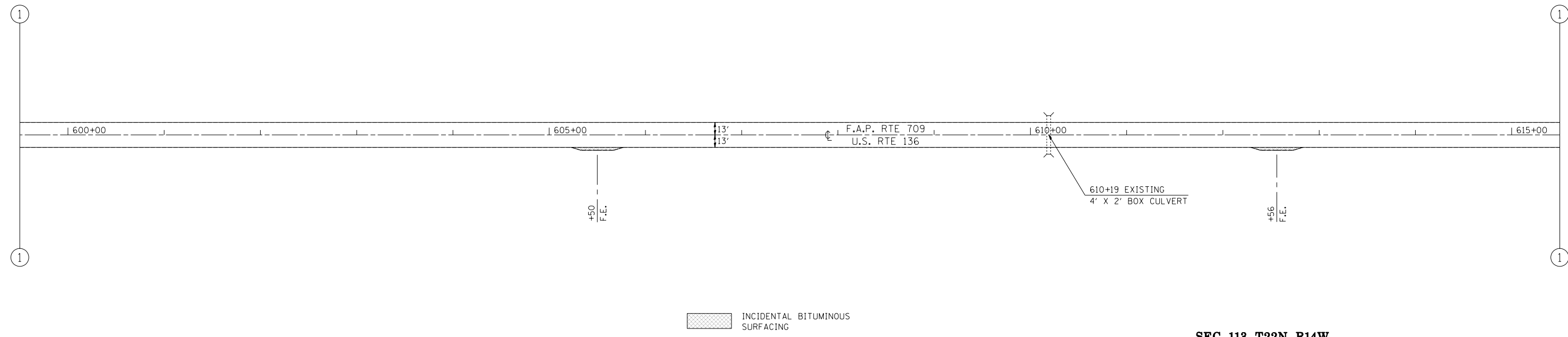


INCIDENTAL BITUMINOUS SURFACING

SEC. 113, T22N, R14W

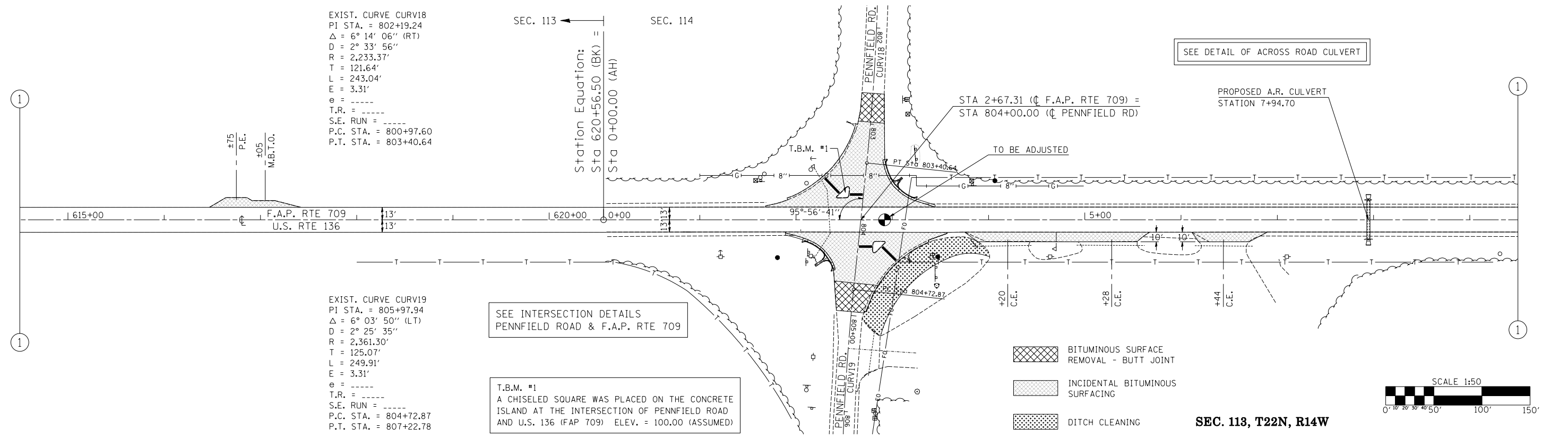


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	35
STA. 600+00		TO STA. 9+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 113(RS-5,BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				



INCIDENTAL BITUMINOUS SURFACING

SEC. 113, T22N, R14W



EXIST. CURVE CURV18
 PI STA. = 802+19.24
 $\Delta = 6^\circ 14' 06''$ (RT)
 $D = 2^\circ 33' 56''$
 $R = 2,233.37'$
 $T = 121.64'$
 $L = 243.04'$
 $E = 3.31'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 800+97.60$
 $P.T. STA. = 803+40.64$

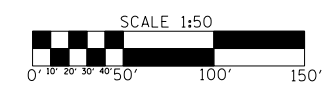
EXIST. CURVE CURV19
 PI STA. = 805+97.94
 $\Delta = 6^\circ 03' 50''$ (LT)
 $D = 2^\circ 25' 35''$
 $R = 2,361.30'$
 $T = 125.07'$
 $L = 249.91'$
 $E = 3.31'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 804+72.87$
 $P.T. STA. = 807+22.78$

SEE INTERSECTION DETAILS
 PENNFIELD ROAD & F.A.P. RTE 709

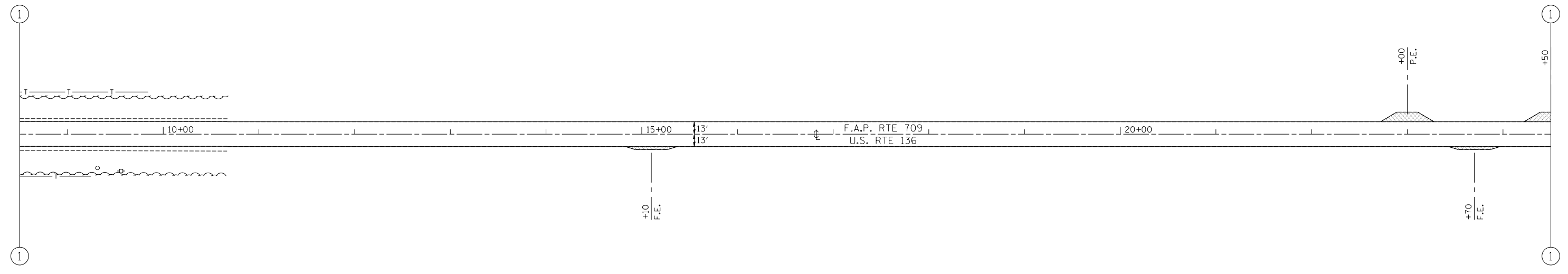
T.B.M. #1
 A CHISELED SQUARE WAS PLACED ON THE CONCRETE ISLAND AT THE INTERSECTION OF PENNFIELD ROAD AND U.S. 136 (FAP 709) ELEV. = 100.00 (ASSUMED)

- BITUMINOUS SURFACE REMOVAL - BUTT JOINT
- INCIDENTAL BITUMINOUS SURFACING
- DITCH CLEANING

SEC. 113, T22N, R14W

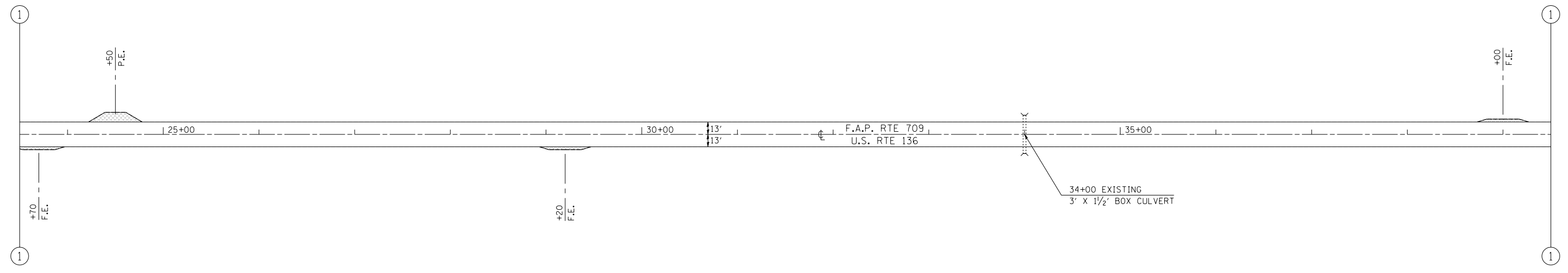



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	36
STA. 9+00		TO STA. 39+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 113(RS-5,BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				



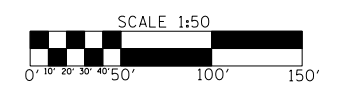
 INCIDENTAL BITUMINOUS SURFACING

SEC. 113, T22N, R14W

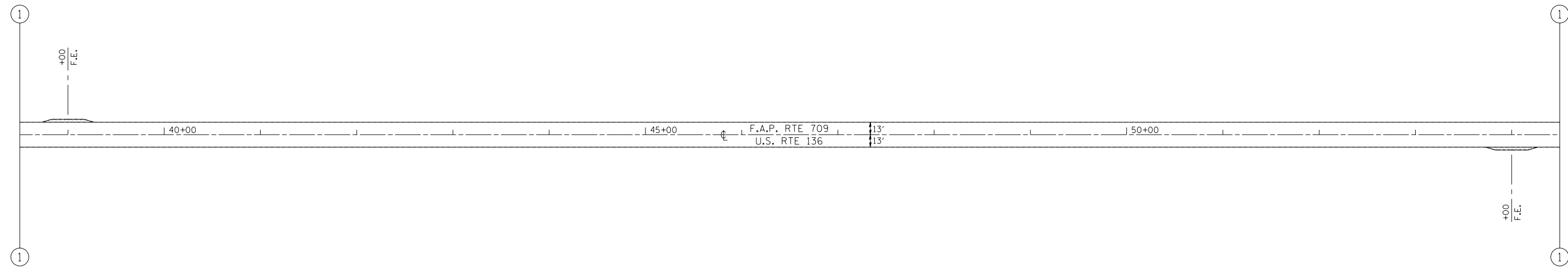


 INCIDENTAL BITUMINOUS SURFACING

SEC. 113, T22N, R14W

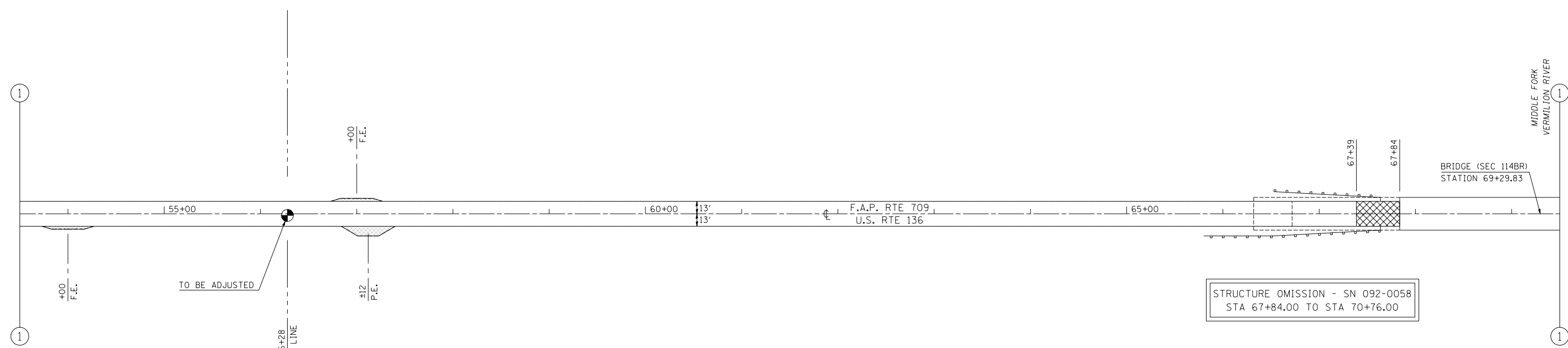




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	37
STA. 39+00		TO STA. 69+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				



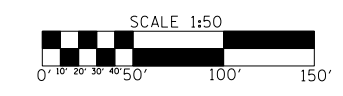
 INCIDENTAL BITUMINOUS SURFACING

SEC. 113, T22N, R14W



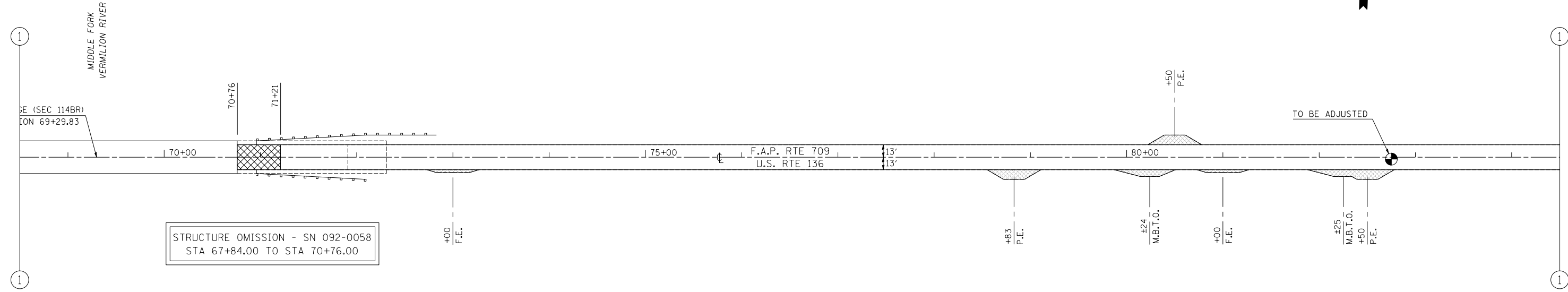
 BITUMINOUS SURFACE REMOVAL - BUTT JOINT
 INCIDENTAL BITUMINOUS SURFACING

SEC. 114, T22N, R14W



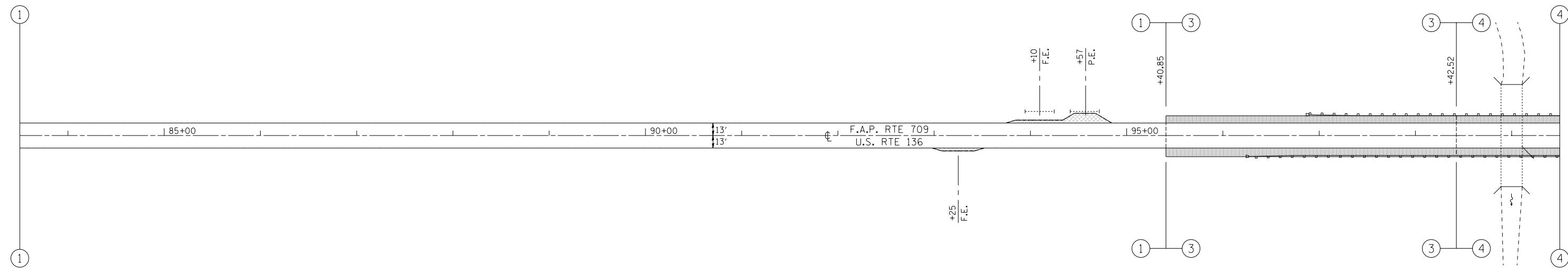
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	38
STA. 69+00		TO STA. 99+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

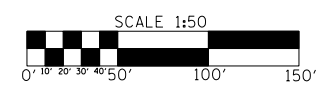


- BITUMINOUS SURFACE REMOVAL - BUTT JOINT
- INCIDENTAL BITUMINOUS SURFACING

SEC. 114, T22N, R14W



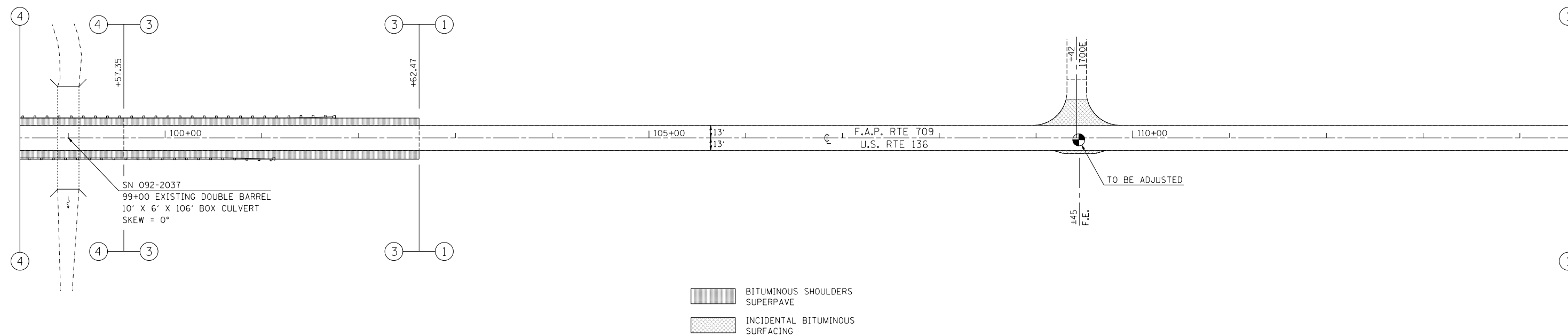
- BITUMINOUS SHOULDERS SUPERPAVE
- INCIDENTAL BITUMINOUS SURFACING



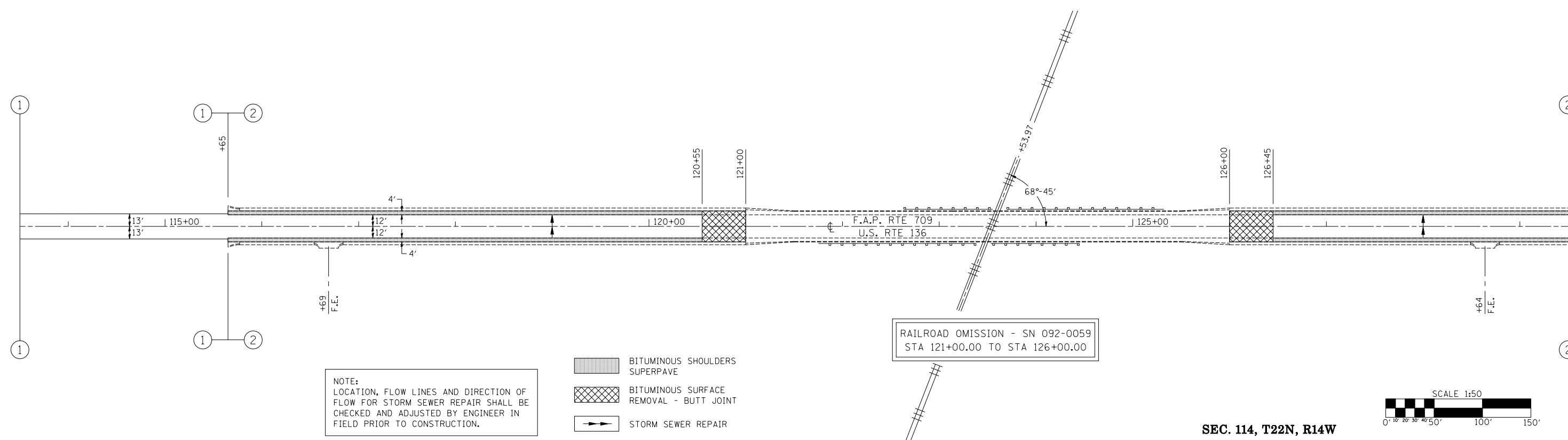
SEC. 114, T22N, R14W

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	39
STA. 99+00		TO STA. 129+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

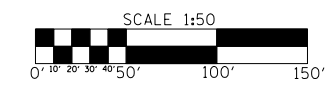


SEC. 114, T22N, R14W



NOTE:
 LOCATION, FLOW LINES AND DIRECTION OF
 FLOW FOR STORM SEWER REPAIR SHALL BE
 CHECKED AND ADJUSTED BY ENGINEER IN
 FIELD PRIOR TO CONSTRUCTION.

- BITUMINOUS SHOULDERS SUPERPAVE
- BITUMINOUS SURFACE REMOVAL - BUTT JOINT
- STORM SEWER REPAIR

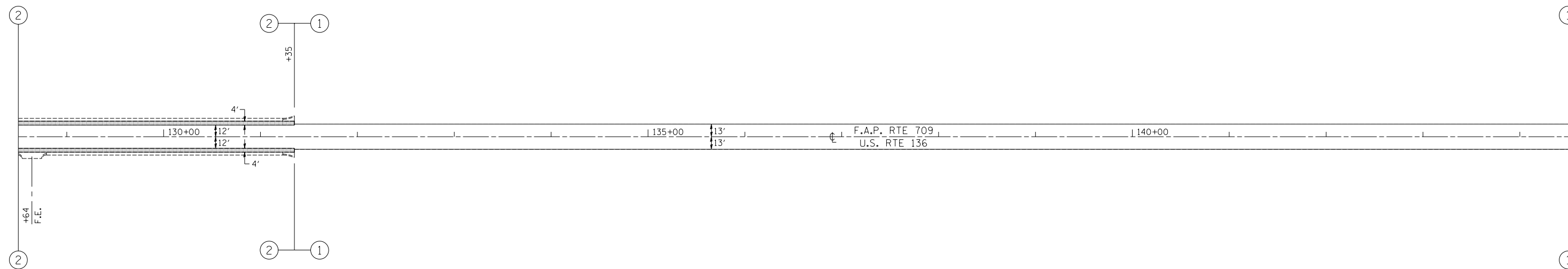


SEC. 114, T22N, R14W

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	40
STA. 129+00		TO STA. 159+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

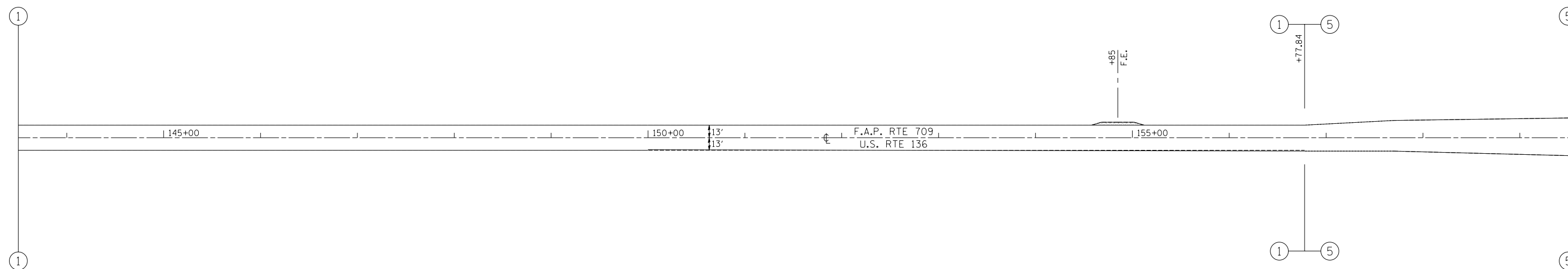



* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

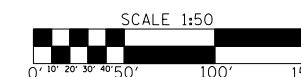


 BITUMINOUS SHOULDERS
 SUPERPAVE

SEC. 114, T22N, R14W



 INCIDENTAL BITUMINOUS
 SURFACING

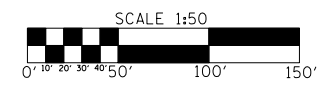
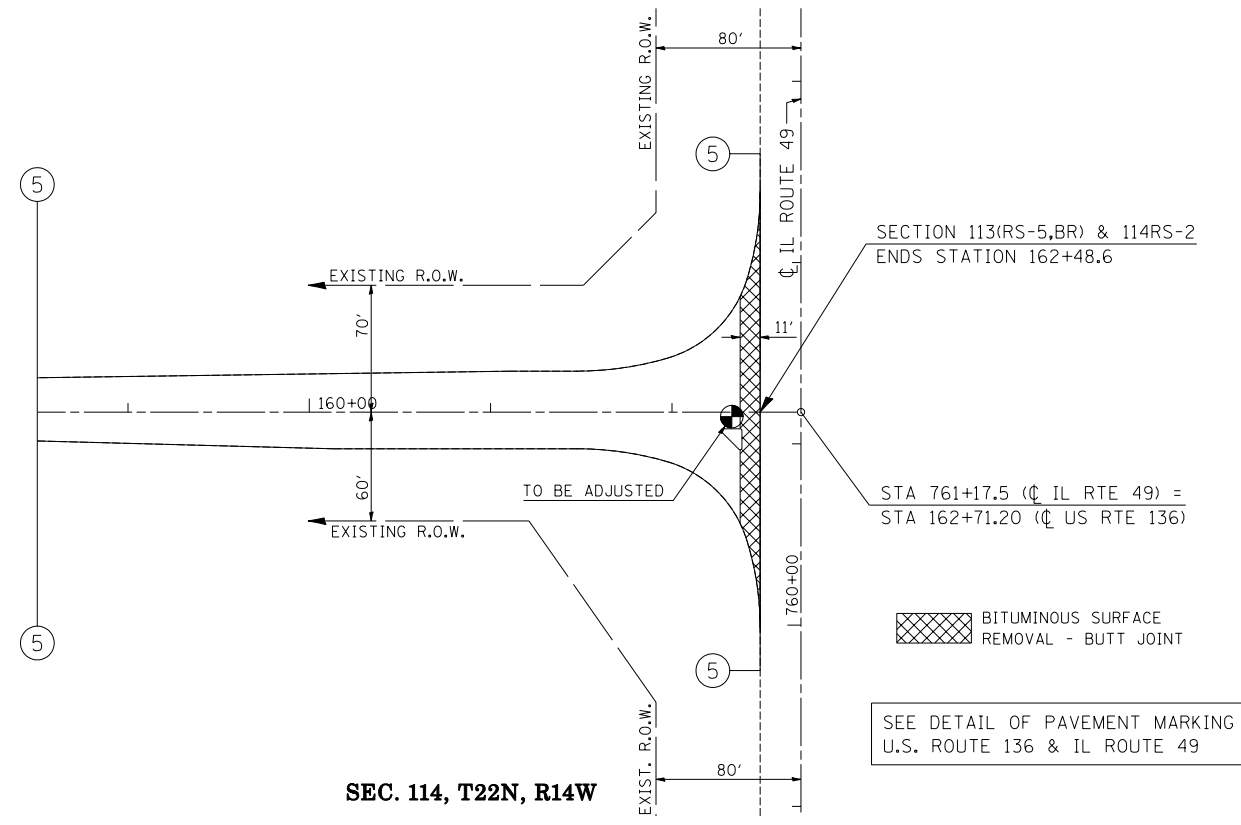


SEC. 114, T22N, R14W

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	41
STA. 159+00		TO STA. 162+71.20		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

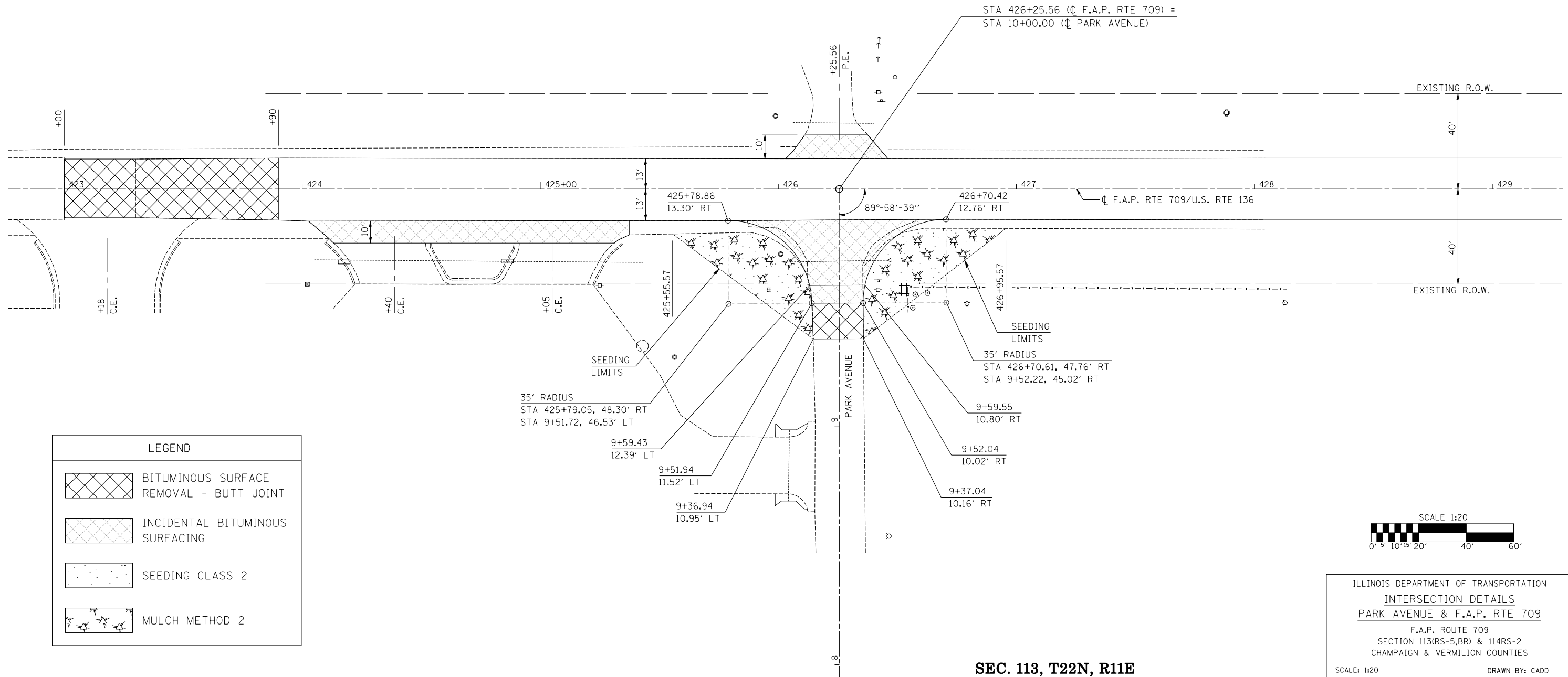


* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

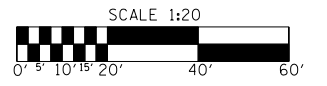


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	42

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864



LEGEND	
	BITUMINOUS SURFACE REMOVAL - BUTT JOINT
	INCIDENTAL BITUMINOUS SURFACING
	SEEDING CLASS 2
	MULCH METHOD 2



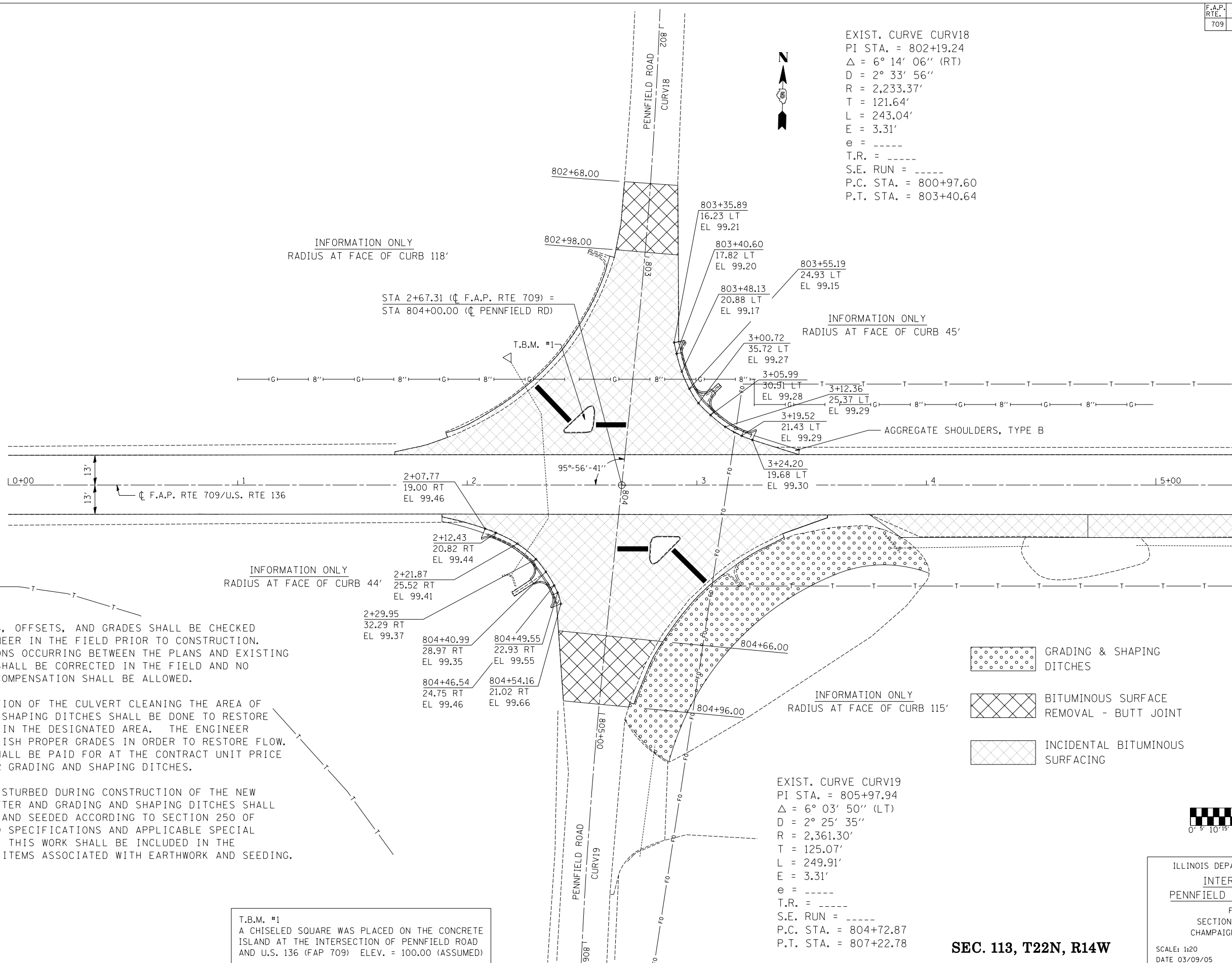
ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERSECTION DETAILS
 PARK AVENUE & F.A.P. RTE 709
 F.A.P. ROUTE 709
 SECTION 113(RS-5,BR) & 114RS-2
 CHAMPAIGN & VERMILION COUNTIES
 SCALE: 1:20
 DATE 03/09/05
 DRAWN BY: CADD
 CHECKED BY:

SEC. 113, T22N, R11E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	43

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

EXIST. CURVE CURV18
 PI STA. = 802+19.24
 $\Delta = 6^\circ 14' 06''$ (RT)
 $D = 2^\circ 33' 56''$
 $R = 2,233.37'$
 $T = 121.64'$
 $L = 243.04'$
 $E = 3.31'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 800+97.60$
 $P.T. \text{ STA.} = 803+40.64$



INFORMATION ONLY
 RADIUS AT FACE OF CURB 118'

STA 2+67.31 (C F.A.P. RTE 709) =
 STA 804+00.00 (C PENNFIELD RD)

INFORMATION ONLY
 RADIUS AT FACE OF CURB 45'

INFORMATION ONLY
 RADIUS AT FACE OF CURB 44'

INFORMATION ONLY
 RADIUS AT FACE OF CURB 115'

NOTES:

- ① ALL STATIONS, OFFSETS, AND GRADES SHALL BE CHECKED BY THE ENGINEER IN THE FIELD PRIOR TO CONSTRUCTION. ANY VARIATIONS OCCURRING BETWEEN THE PLANS AND EXISTING CONDITIONS SHALL BE CORRECTED IN THE FIELD AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ② UPON COMPLETION OF THE CULVERT CLEANING THE AREA OF GRADING AND SHAPING DITCHES SHALL BE DONE TO RESTORE PROPER FLOW IN THE DESIGNATED AREA. THE ENGINEER SHALL ESTABLISH PROPER GRADES IN ORDER TO RESTORE FLOW. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR GRADING AND SHAPING DITCHES.
- ③ ALL AREAS DISTURBED DURING CONSTRUCTION OF THE NEW CURB AND GUTTER AND GRADING AND SHAPING DITCHES SHALL BE REPAIRED AND SEEDED ACCORDING TO SECTION 250 OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS. THIS WORK SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS ASSOCIATED WITH EARTHWORK AND SEEDING.

T.B.M. #1
 A CHISELED SQUARE WAS PLACED ON THE CONCRETE ISLAND AT THE INTERSECTION OF PENNFIELD ROAD AND U.S. 136 (FAP 709) ELEV. = 100.00 (ASSUMED)

- GRADING & SHAPING DITCHES
- BITUMINOUS SURFACE REMOVAL - BUTT JOINT
- INCIDENTAL BITUMINOUS SURFACING

EXIST. CURVE CURV19
 PI STA. = 805+97.94
 $\Delta = 6^\circ 03' 50''$ (LT)
 $D = 2^\circ 25' 35''$
 $R = 2,361.30'$
 $T = 125.07'$
 $L = 249.91'$
 $E = 3.31'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 804+72.87$
 $P.T. \text{ STA.} = 807+22.78$



ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERSECTION DETAILS
 PENNFIELD ROAD & F.A.P. RTE 709
 F.A.P. ROUTE 709
 SECTION 113(RS-5,BR) & 114RS-2
 CHAMPAIGN & VERMILION COUNTIES

SEC. 113, T22N, R14W

SCALE: 1:20
 DATE 03/09/05
 DRAWN BY: CADD
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	44

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

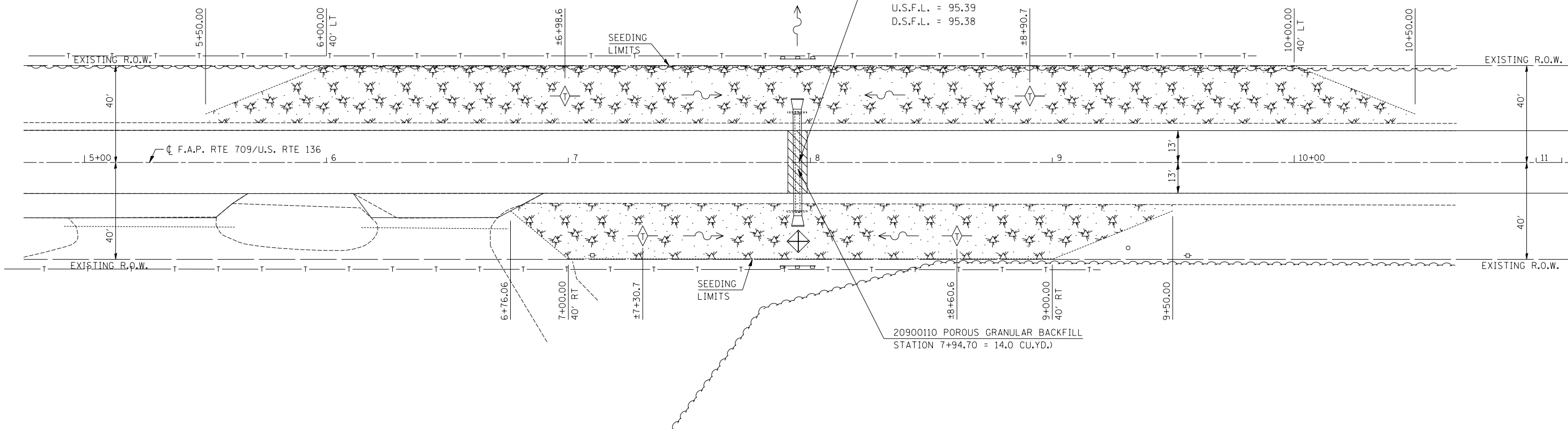
DETAIL OF ACROSS ROAD CULVERT STATION 7+94.70



LEGEND	
	INLET PIPE PROTECTION
	TEMPORARY DITCH CHECK
	PERIMETER BARRIER
	SEEDING LIMITS
	SEEDING CLASS 2
	MULCH METHOD 2
	CLASS D PATCH, TY 3, 11"

EXISTING 2.0' x 1.5' x 42' BOX CULVERT INCLUDING HEADWALLS
 STATION 7+94.70
 REMOVAL OF EXISTING STRUCTURE NO. 2 = 1.0 EACH
 PROPOSED PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE - ELLIPTICAL,
 EQUIVALENT ROUND-SIZE, 27" = 40.0 FOOT
 PRECAST REINFORCED CONCRETE FLARED END SECTIONS,
 EQUIVALENT ROUND-SIZE, 27" = 2.0 EACH
 U.S.F.L. = 95.39
 D.S.F.L. = 95.38

20900110 POROUS GRANULAR BACKFILL
 STATION 7+94.70 = 14.0 CU.YD.)



NOTE:

THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST ELIPTICAL PIPE CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE ELIPTICAL PIPE CULVERTS OF THE SIZE SPECIFIED.

T.B.M. #1
 A CHISLED SQUARE WAS PLACED ON THE CONCRETE ISLAND AT THE INTERSECTION OF PENNFIELD ROAD AND U.S. 136 (FAP 709) ELEV. = 100.00 (ASSUMED)



ILLINOIS DEPARTMENT OF TRANSPORTATION
 DETAIL OF ACROSS ROAD CULVERT
 F.A.P. ROUTE 709
 SECTION 113(RS-5, BR) & 114RS-2
 CHAMPAIGN & VERMILION COUNTIES

SCALE: 1:20
 DATE 03/09/05

DRAWN BY: CADD
 CHECKED BY:

SEC. 113, T22N, R14W

DETAIL OF ACROSS ROAD BOX CULVERT

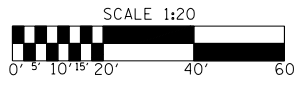
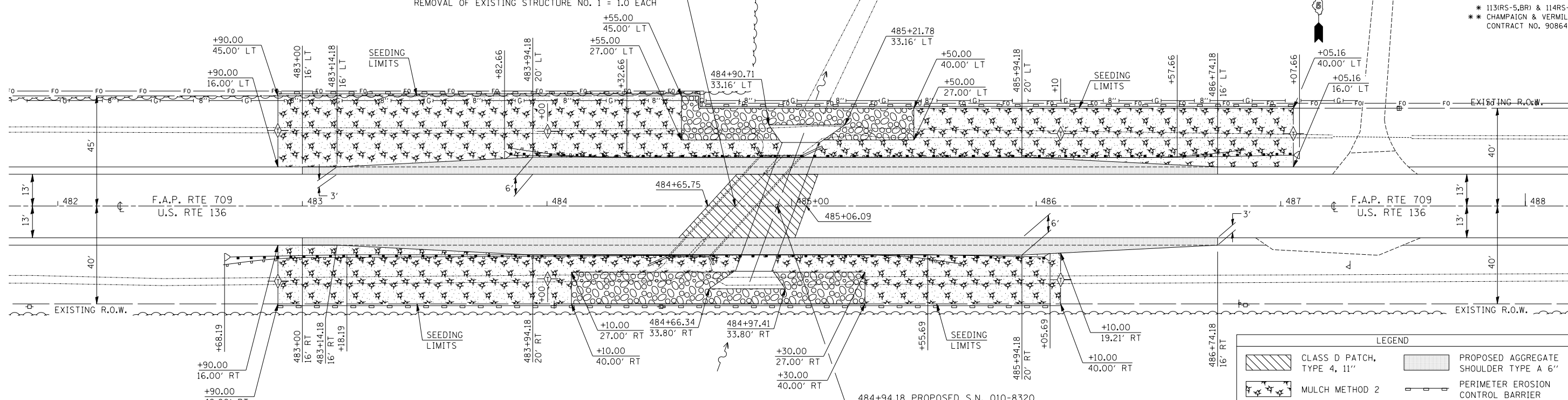
484+77 EXISTING S.N. 010-8320
 BOX CULVERT 2 @ 5 1/2' x 4'
 45° SKEW
 REMOVAL OF EXISTING STRUCTURE NO. 1 = 1.0 EACH

STATION 484+94.18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	45
STA. 709		TO STA. 709		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

PLAN	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	

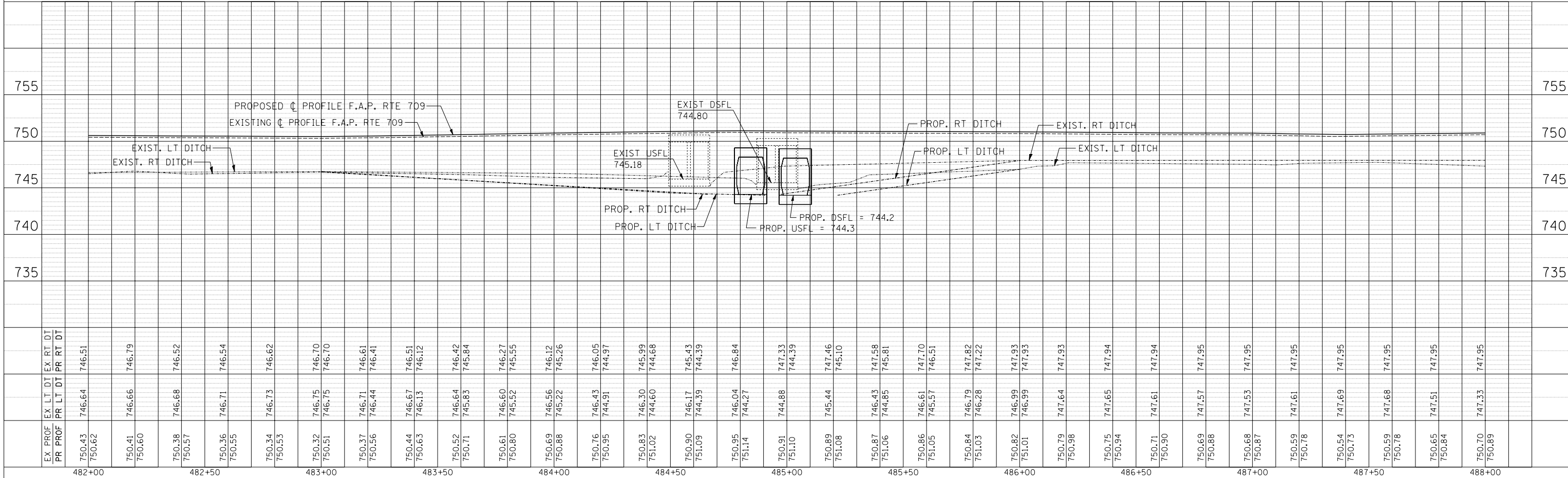


LEGEND	
	CLASS D PATCH, TYPE 4, 11"
	MULCH METHOD 2
	SEEDING CLASS 2
	STONE RIPRAP
	PROPOSED AGGREGATE SHOULDER TYPE A 6"
	PERIMETER EROSION CONTROL BARRIER
	TEMPORARY DITCH CHECKS

484+94.18 PROPOSED S.N. 010-8320
 PRECAST CONC BOX CULVERT 12'x4' (M273)
 20° SKEW = 56.0 FOOT
 BOX CULVERT END SECTION = 2.0 EACH
 U.S.F.L. = 744.30
 D.S.F.L. = 744.20

SEC. 113, T22N, R14W

PROFILE	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	



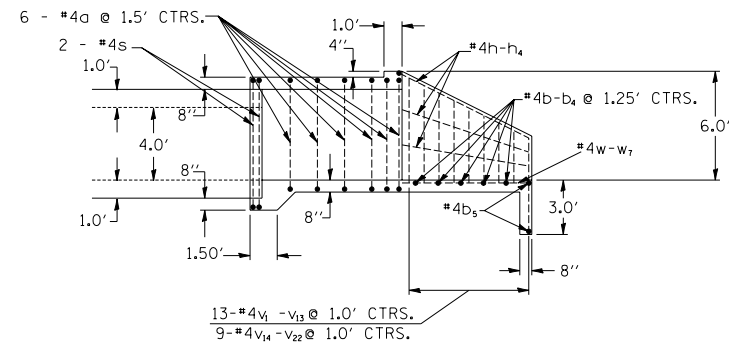
S.N. 010-8320

DETAIL OF BOX CULVERT END SECTION

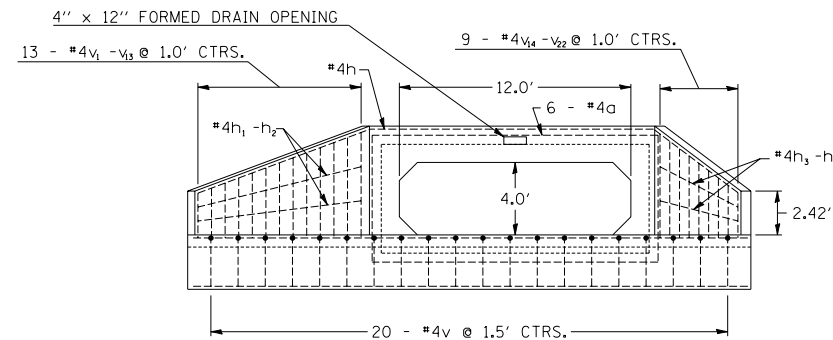
A.R. BOX CULVERT 1 @ 12.0' X 4.0'

STA. 484 + 94.18 (CULVERT NO. 1)

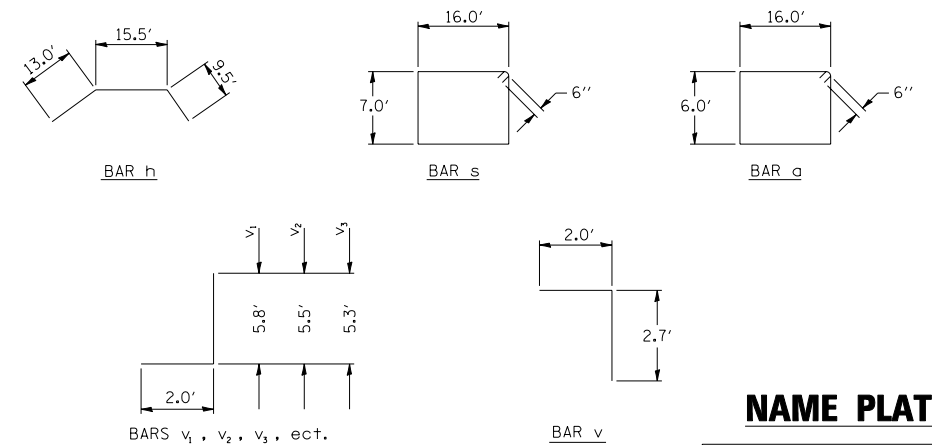
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	46
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				



SECTION A - A



END VIEW



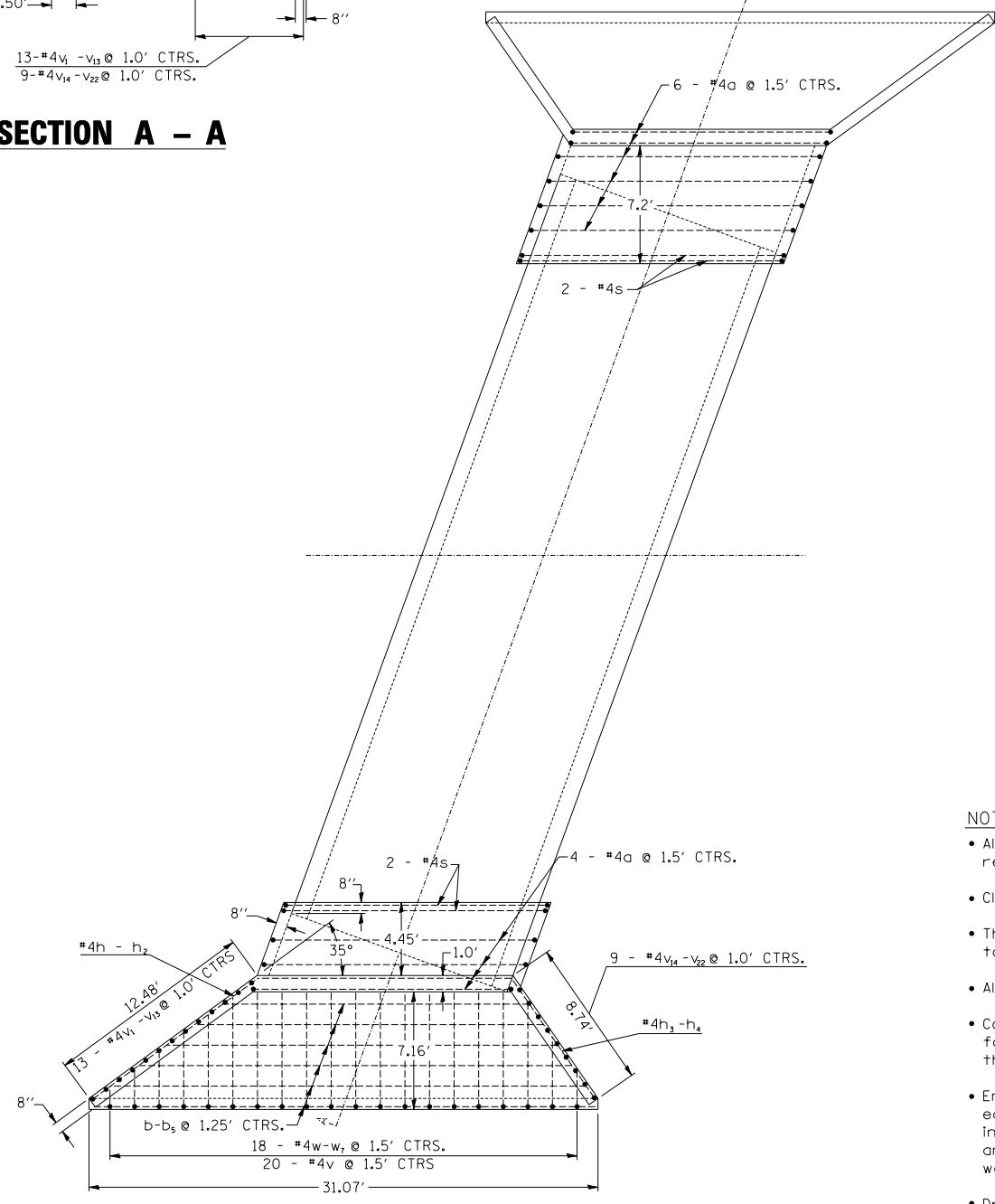
NAME PLATE

BILL OF MATERIAL (ONE HEADWALL)

Bar	No.	Size	Length (ft)	Shape
a	6	#4	45.0	□
b	1	#4	18.7	□
b1	1	#4	21.3	□
b2	1	#4	23.9	□
b3	1	#4	26.5	□
b4	1	#4	29.0	□
b5	2	#4	30.7	□
b6	1	#4	38.0	□
b7	1	#4	12.7	□
b8	1	#4	12.4	□
b9	1	#4	9.6	□
b10	1	#4	8.8	□
b11	2	#4	47.0	□
c	20	#4	4.7	□
d	1	#4	7.8	□
e	1	#4	7.5	□
f	1	#4	7.3	□
g	1	#4	7.0	□
h	1	#4	6.7	□
i	1	#4	6.4	□
j	1	#4	6.1	□
k	1	#4	5.9	□
l	1	#4	5.6	□
m	1	#4	5.3	□
n	1	#4	5.0	□
o	1	#4	4.7	□
p	1	#4	4.5	□
q	1	#4	7.8	□
r	1	#4	7.4	□
s	1	#4	6.9	□
t	1	#4	6.5	□
u	1	#4	6.1	□
v	1	#4	5.7	□
w	1	#4	5.3	□
x	1	#4	4.9	□
y	1	#4	4.5	□
z	11	#4	7.0	□
aa	1	#4	6.7	□
ab	1	#4	5.6	□
ac	1	#4	4.5	□
ad	1	#4	3.4	□
ae	1	#4	2.3	□
af	1	#4	3.5	□
ag	1	#4	6.4	□
ah	1	#4	4.2	□

Reinforcement Bars L.B. 6.47
Class SI Conc. Hdwall, CUL. YD. 18.7

ITEM	UNIT	QUANT.
Box Culvert End	EACH	2



PLAN

- NOTES**
- All bars should be rounded and shall conform to the requirements of Art. 1006.10 of Standard Specs.
 - Class SI Concrete shall be used throughout.
 - The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M259.
 - All dimensions are in FEET (')-INCHES (") unless otherwise noted.
 - Concrete and Rebar quantities and lengths calculated for the cast-in-place End Sections will vary based on the precast box culverts supplied.
 - End Sections will be paid for at the contract unit price each for BOX CULVERT END SECTION CULVERT NO., as outlined in Art. 540.08, which prices shall include all concrete, rebar, and all other items necessary to complete the proposed work.
 - Drain holes shall be provided in accordance with Art. 503.12.
 - Drawings not to scale.
 - The span dimension on the End View gives the opening span for the Box Culvert. Due to the Skew of the box the End Section opening is larger.

STATION 484+94.18
BUILT 2006 BY
STATE OF ILLINOIS
F. A. P. RT. 709
SEC 113 (RS-5, BR) & 114RS-2
LOADING HS20
STR. NO. 010-8320
SEE STD. 515001

S.N. 010-8320
BOX CULVERT END SECTIONS (CAST IN PLACE)
1 @ 12.0' X 4.0'
STA. 484+94.18 20° SKEW

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

CULVERT DETAILS

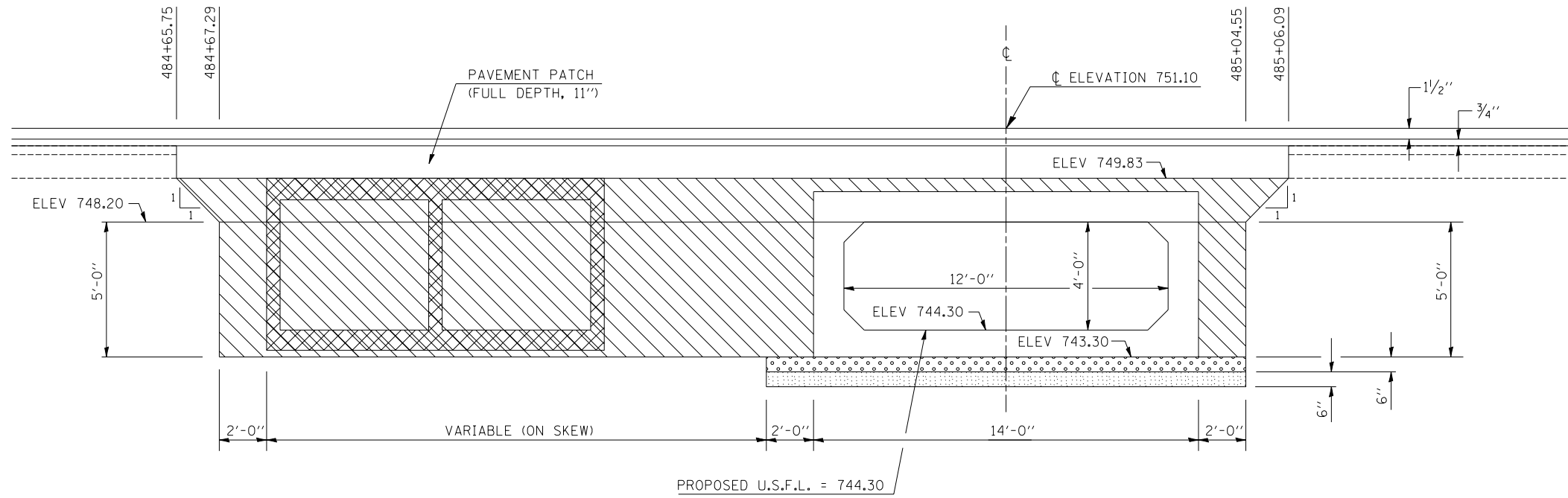
SCALE: VERT. DRAWN BY JDC
 HORIZ. CHECKED BY
 DATE 032105

2/28/2006 c:\projects\d500297\culvert\culvert+details.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	47
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 113(RS-5,BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				

DETAIL OF POROUS GRANULAR BACKFILL PAY LIMITS

S.N. 010-8320



LEGEND	
	POROUS GRANULAR BACKFILL
	BOX CULVERT BEDDING (CA-7 OR CA-11)
	RIPRAP (SPECIAL)
	REMOVAL OF EXISTING STRUCTURE NO. 2

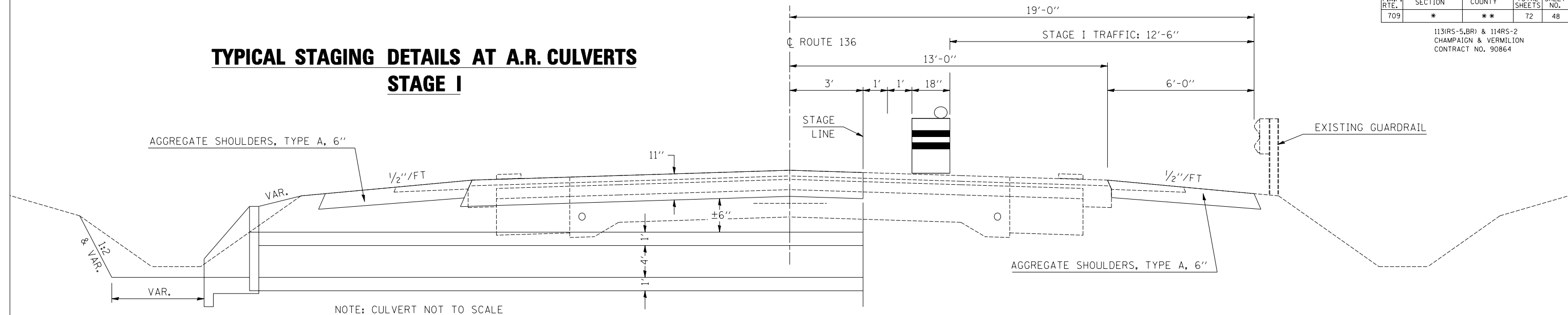
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DETAIL OF POROUS GRANULAR BACKFILL
 PAY LIMITS - S.N. 010-8320
 F.A.P. ROUTE 709
 SECTION 113(RS-5,BR) & 114RS-2
 CHAMPAIGN & VERMILION COUNTIES
 SCALE: DO NOT SCALE DRAWN BY: JRP
 DATE: 04/12/05 CHECKED BY:

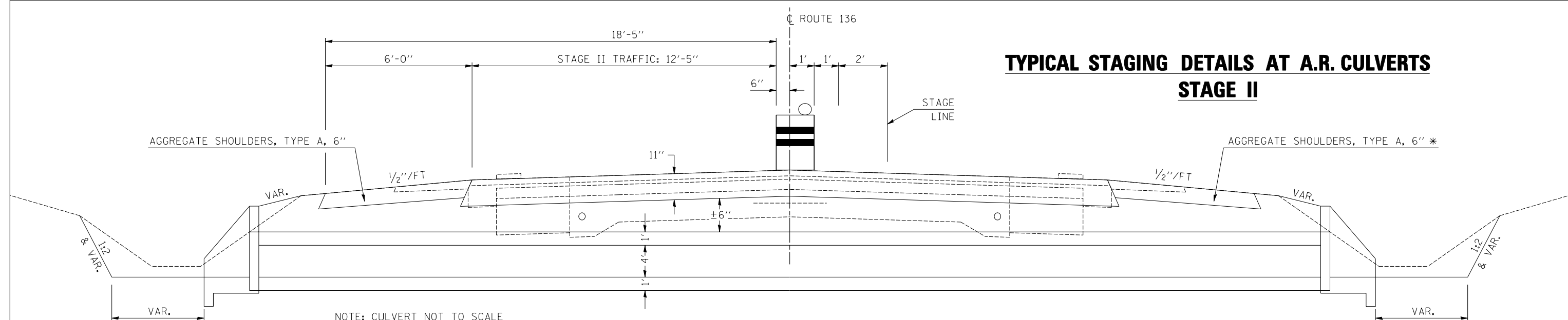
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	48

113(RS-5, BR) & 114RS-2
CHAMPAIGN & VERMILION
CONTRACT NO. 90864

TYPICAL STAGING DETAILS AT A.R. CULVERTS STAGE I



TYPICAL STAGING DETAILS AT A.R. CULVERTS STAGE II



NOTES

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701206 and STAGE CONSTRUCTION ACROSS ROAD STRUCTURES for additional information.
2. The Engineer may reduce or eliminate lengths or locations of Aggregate Shoulders, Type A, 6" and Earth Excavation based on field conditions.
3. Construct downstream end of A.R. culvert first.
4. Earth excavated for the construction of Aggregate Shoulders, Type A shall be deposited and graded to smooth the foreslopes. This excavated earth will be added to the final cross-section volumes for the Earthwork Balance/Waste calculations.
5. Aggregate Shoulders, Type A, 6" for stage I may be completed at any time prior to stage I. Aggregate Shoulders, Type A, 6" for stage II should not be completed until the half-width culvert from stage I has been constructed.
6. * Replace previously constructed Aggregate Shoulders, Type A, 6" as needed when construction is completed.
7. ** CMS boards shall be placed 3 days in advance prior to work.

A. R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	** CHANGEABLE MESSAGE SIGNS
STA. 484+94.18	701206	2 Days - 48 hrs. - Non-Stop (2) - 12 hr. Day Shifts (2) - 12 hr. Night Shifts	2 EACH AT 5.0 CAL DAY = 10.0 CAL DAY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	49

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864



SOIL BORING LOG

Page 1 of 1

ROUTE FAP Rt. 709 (US 138) DESCRIPTION Box Culvert 1.0 Mile East of Gifford LOGGED BY CNA
 SECTION (44-15D)BR LOCATION SE, SEC. 36, TWP. 22N, RNG. 10E, 3rd PM
 COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 010-8390 D B U M Surface Water Elev. 766.1 ft
 Station 484+77 E L C O Stream Bed Elev. 746.1 ft
 P O S I
 BORING NO. 1 West Boring T W S S
 Station 484+78 H S Qu T
 Offset 15.0 ft L.R. Groundwater Elev.: _____ ft
 Ground Surface Elev. 750.5 ft (N) (6") (in) (%) First Encounter _____ ft
 After Hra. _____ ft

Soil Description	Depth (ft)	Blows	Penetration (in)	SPT (N)
Black Clay to Clay Loam	760.5	1	1.9	20
Grey/Brown Mottled Clay Loam	744.5	1	0.8	33
Green/Brown Mottled Silty Clay Loam	748.5	3	2.1	18
Grey Silty Clay Loam Till	739.5	5	2.5	13
Grey Clay Loam Till (Silt Seam)	737.0	4	4.9	12
Grey Loam Till	734.5	6	3.7	12
Grey Silty Clay Loam Till	733.5	9	6.8	12
	730.5	10		

End of Boring
 An assumed Centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

EBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE FAP Rt. 709 (US 138) DESCRIPTION Box Culvert 1.0 Mile East of Gifford LOGGED BY CNA
 SECTION (44-15D)BR LOCATION SE, SEC. 36, TWP. 22N, RNG. 10E, 3rd PM
 COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 010-8390 D B U M Surface Water Elev. 766.1 ft
 Station 484+77 E L C O Stream Bed Elev. 746.1 ft
 P O S I
 BORING NO. 2 East Boring T W S S
 Station 484+80 H S Qu T
 Offset 14.0 ft L.R. Groundwater Elev.: _____ ft
 Ground Surface Elev. 750.5 ft (N) (6") (in) (%) First Encounter _____ ft
 After Hra. _____ ft

Soil Description	Depth (ft)	Blows	Penetration (in)	SPT (N)
Black Clay to Clay Loam	760.5	2	1.3	32
Grey/Brown to Black Mottled Clay Loam	746.5	4	0.9	31
	748.5	3	0.8	31
	744.5	4	0.8	31
Grey Silty Clay Loam Till	739.5	10	2.9	13
(Drove Sample on Rock - Could Not Test Sample)	737.0	11		
	734.5	4		
	733.5	5		
	730.5	7		

End of Boring
 An assumed Centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

EBS, from 137 (Rev. 8-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE:
 DATE 4/4/2005

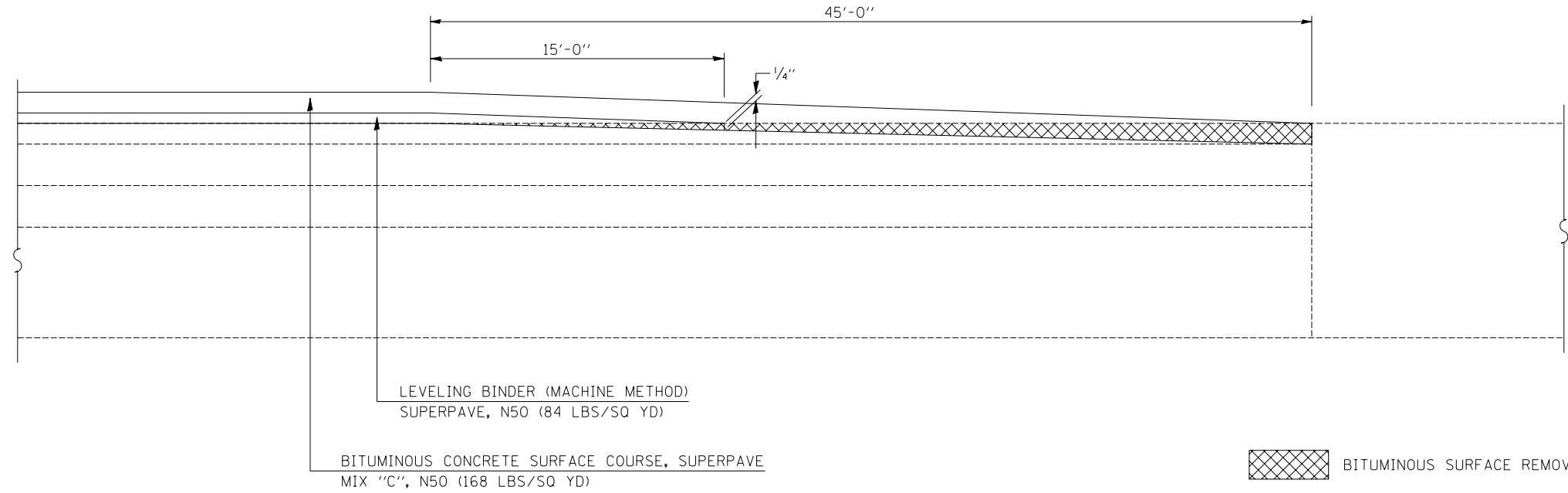
DRAWN BY CNA
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	50

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

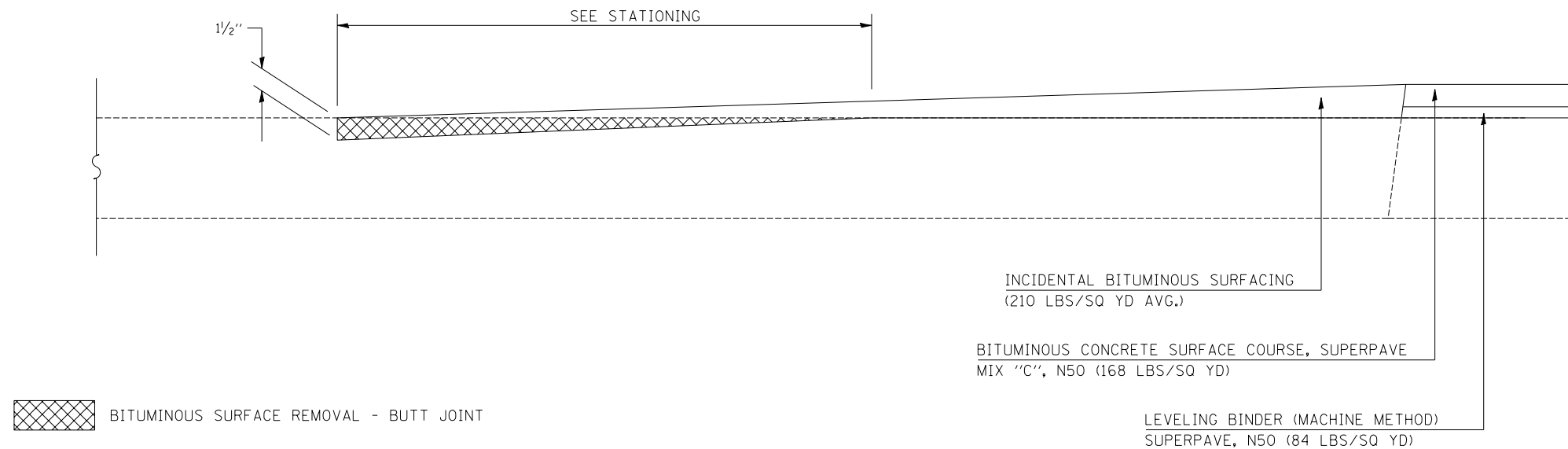
DETAIL OF BITUMINOUS SURFACE REMOVAL - BUTT JOINT

STATION 67+39.00 TO STATION 67+84.00
 STATION 70+76.00 TO STATION 71+21.00
 STATION 120+55.00 TO STATION 121+00.00
 STATION 126+00.00 TO STATION 126+45.00



DETAIL OF BITUMINOUS SURFACE REMOVAL - BUTT JOINT

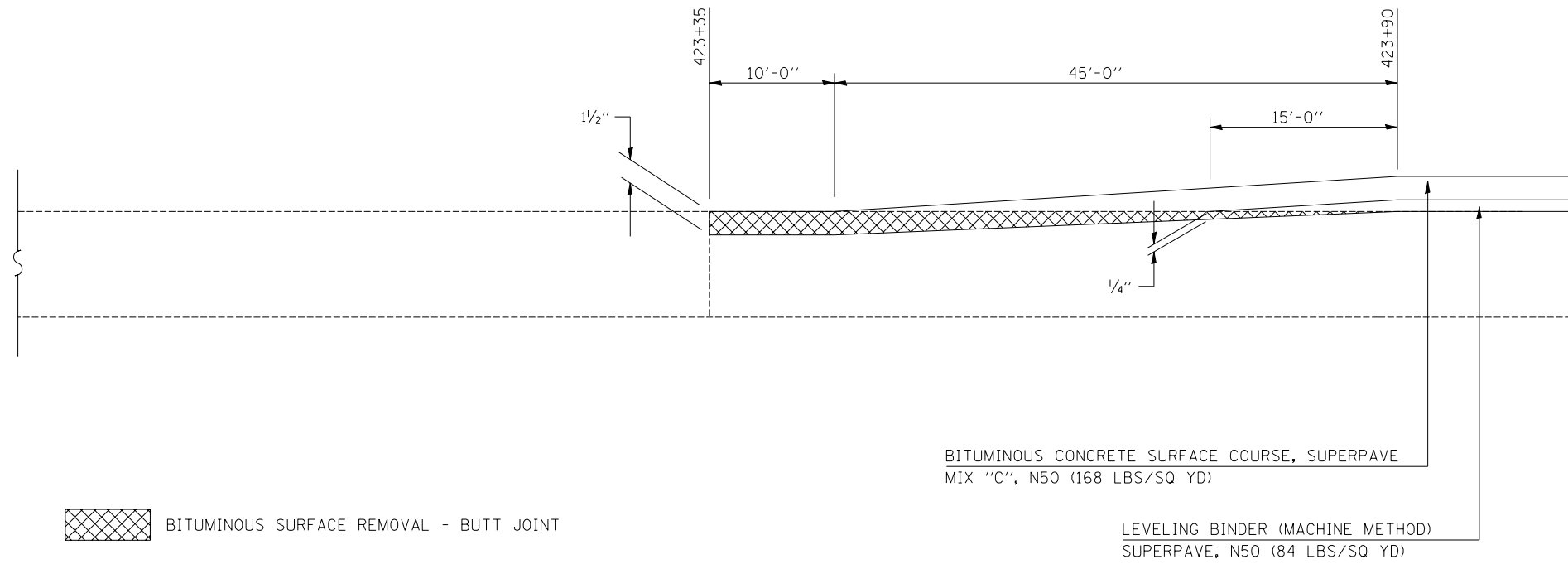
STATION 9+51.94 TO STATION 9+36.94 (PARK AVE.)
 STATION 802+68.00 TO STATION 802+98.00 (PENNFIELD RD.)
 STATION 804+66.00 TO STATION 804+96.00 (PENNFIELD RD.)



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	51

DETAIL OF BITUMINOUS SURFACE REMOVAL - BUTT JOINT

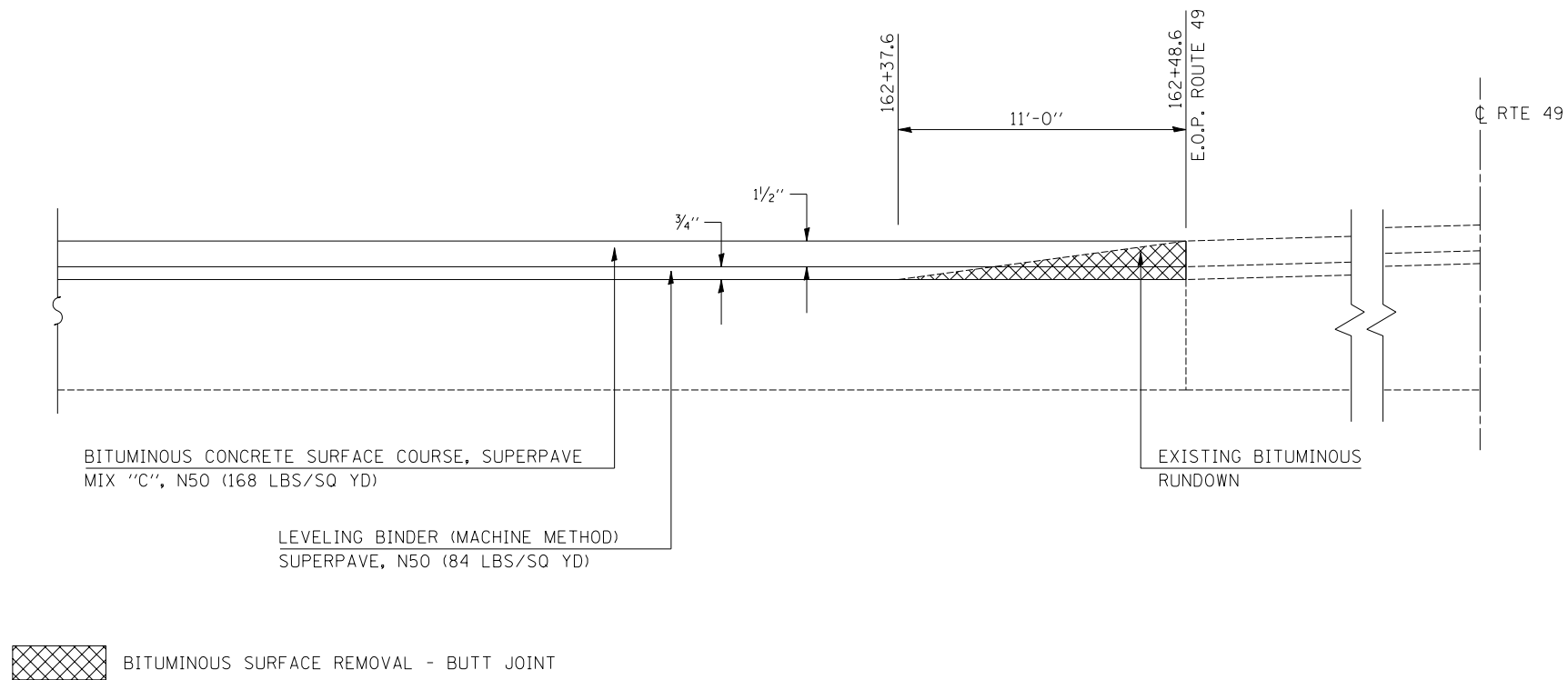
STATION 423+35.00 TO STATION 423+90.00



* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

DETAIL OF BITUMINOUS SURFACE REMOVAL - BUTT JOINT

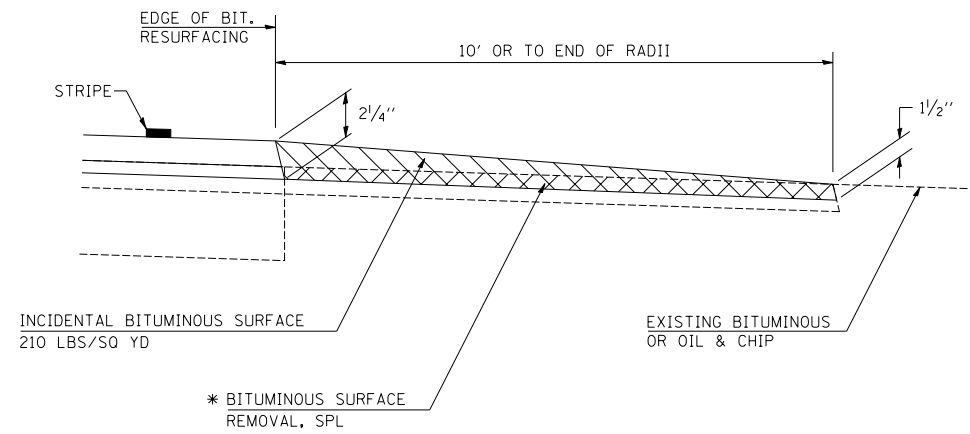
STATION 162+37.6 TO STATION 162+48.6



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	52

PRIVATE ENTRANCE, COMMERCIAL ENTRANCE, OR SIDEROAD

(BITUMINOUS OR OIL & CHIP)

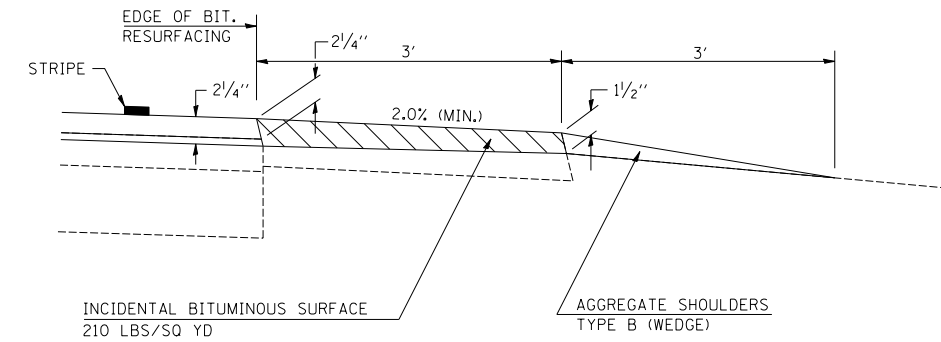


* SEE SCHEDULE OF QUANTITIES FOR LOCATIONS

NOTES: THE INCIDENTAL BITUMINOUS SURFACING IS INTENDED TO RESURFACE THE EXISTING ENTRANCES IN THEIR ENTIRETY. THE EXISTING SIDEROADS SHOULD BE RESURFACED TO MAINTAIN THEIR CURRENT RADII UNLESS OTHERWISE SHOWN IN PLANS.

FIELD ENTRANCE

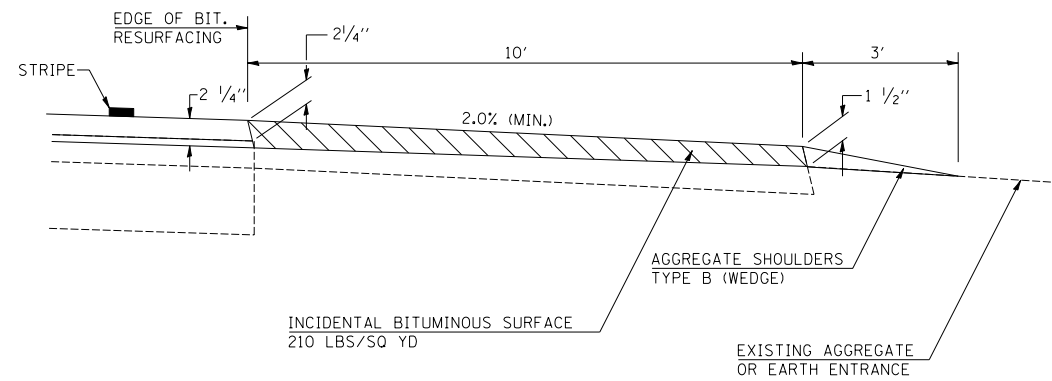
(BITUMINOUS OR OIL & CHIP)



NOTES: THE INCIDENTAL BITUMINOUS SURFACING IS INTENDED TO RESURFACE THE EXISTING ENTRANCES IN THEIR ENTIRETY UNLESS OTHERWISE SHOWN IN PLANS.

PRIVATE OR COMMERCIAL ENTRANCE

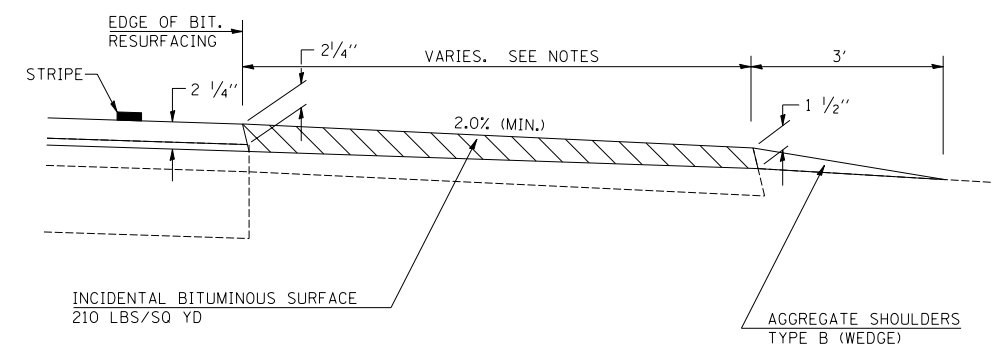
(AGGREGATE OR EARTH)



NOTES: THE INCIDENTAL BITUMINOUS SURFACING IS INTENDED TO RESURFACE THE EXISTING ENTRANCES IN THEIR ENTIRETY UNLESS OTHERWISE SHOWN IN PLANS.

MAILBOX TURNOUTS

(BITUMINOUS OR OIL & CHIP)

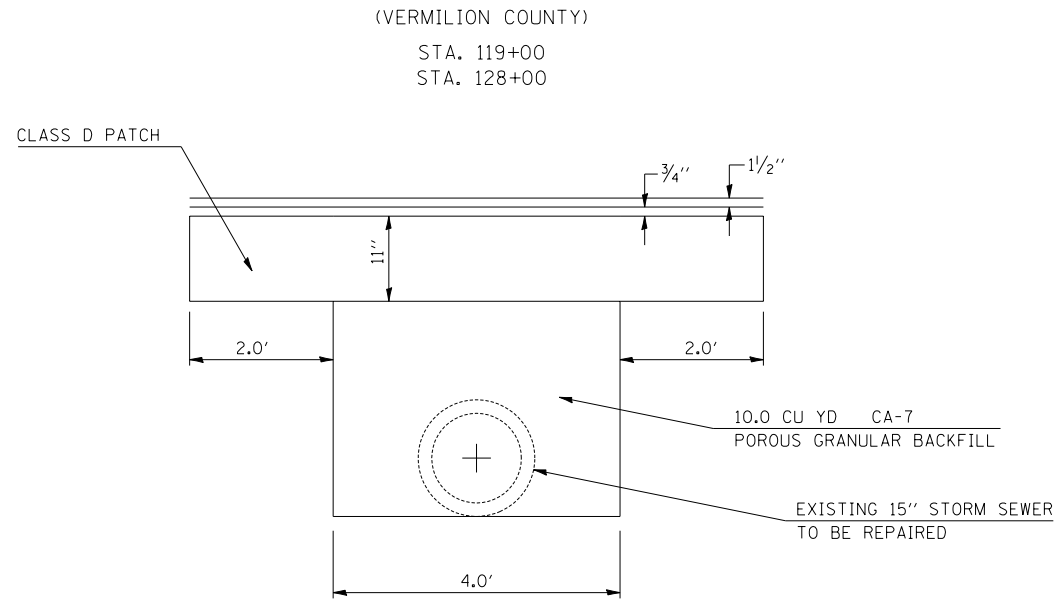


NOTES: THE INCIDENTAL BITUMINOUS SURFACING IS INTENDED TO RESURFACE THE EXISTING MAILBOX TURNOUTS IN THEIR ENTIRETY UNLESS OTHERWISE SHOWN IN PLANS.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	53

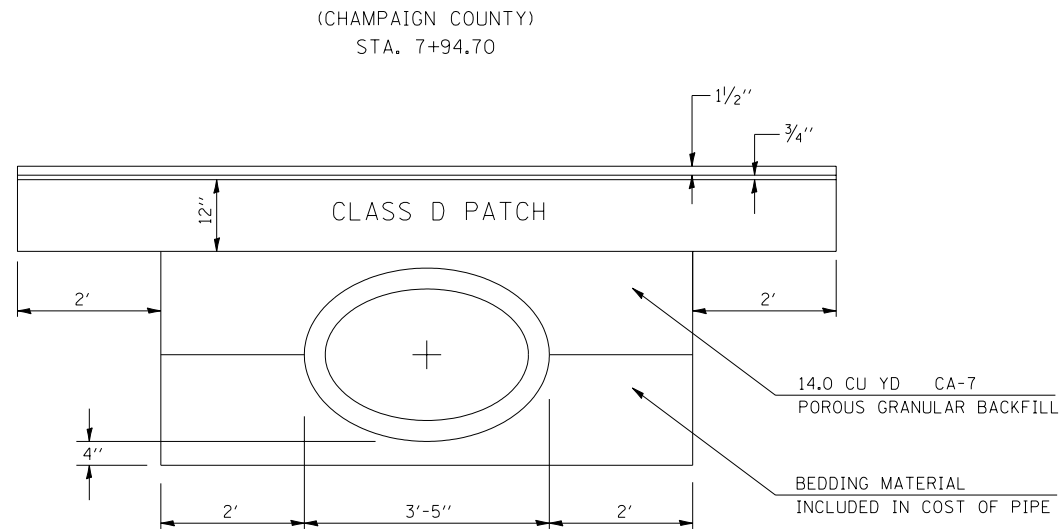
* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

POROUS GRANULAR BACKFILL DETAIL & STORM SEWER REPAIR



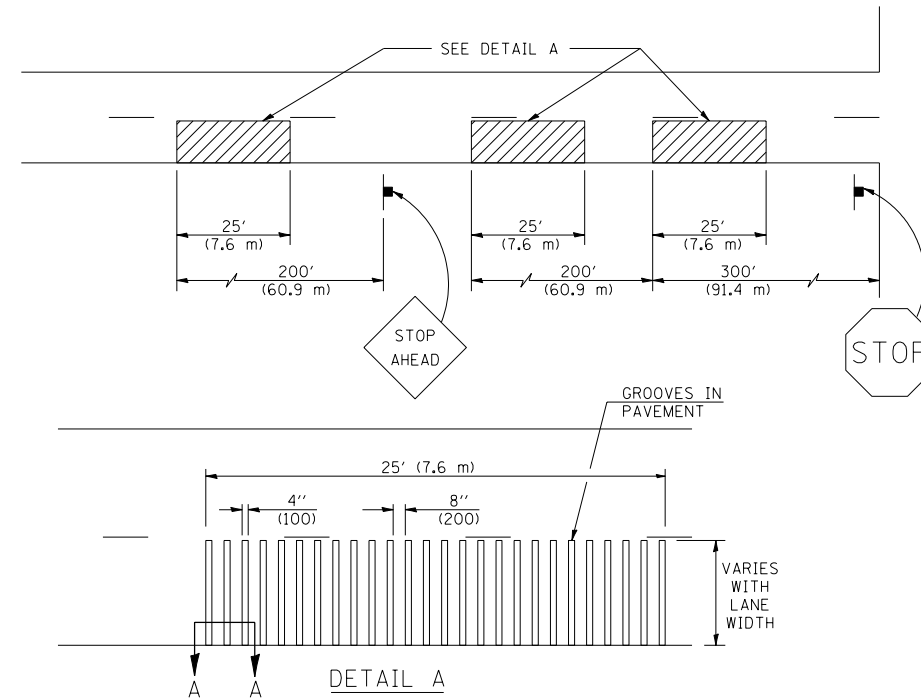
(10.0 SQ FT x 30 FT)/27 CU FT = 11.0 CU YD/STATION
 TOTAL = 22.0 CU YD

POROUS GRANULAR BACKFILL DETAIL



(14.0 SQ FT x 26 FT)/27 CU FT = 14.0 CU YD

TYPICAL RUMBLE STRIP APPLICATION IN ADVANCE OF AN INTERSECTION



GENERAL NOTES

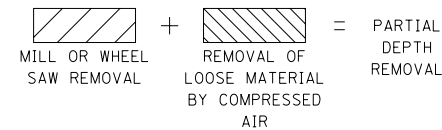
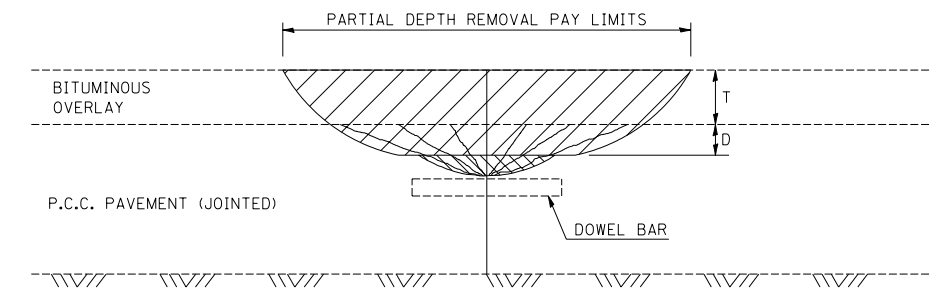
1. ALL GROOVES SHALL BE CONSTRUCTED USING A 4" (100 mm) MILLING HEAD OR SERIES OF 4" (100 mm) MILLING HEADS CAPABLE OF CUTTING TO THE SPECIFIED DEPTH OR ANY VARIABLE DEPTH.
2. THIS WORK WILL BE MEASURED FOR PAYMENT PER EACH 25' (7.6 m) INDIVIDUAL RUMBLE STRIP APPLIED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR RUMBLE STRIP, WHICH PRICE SHALL INCLUDE ALL EQUIPMENT, MATERIAL, LABOR AND OTHER ITEMS REQUIRED TO INSTALL EACH INDIVIDUAL RUMBLE STRIP.

DESIGNED	NAME	DATE	REVISIONS	DATE
T.J.B.	T.J.B.	11/00	NAME	
CHECKED			K.A.G.	06/03
CADD NO.	C-2.12			

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

PAVEMENT PATCHING (PARTIAL DEPTH)

(PREVIOUSLY RESURFACED JOINTED P.C.C. PAVEMENT)



GENERAL NOTES

- ALL VOLUME OF REMOVAL LIMITS TO BE REPLACED WITH BITUMINOUS MIXTURE FOR PATCHING.
- T = THICKNESS OF BITUMINOUS OVERLAY(S). SEE TYPICAL CROSS SECTIONS.
- D = DEPTH OF MACHINE REMOVAL INTO EXISTING P.C.C. PAVEMENT (3" (75 mm) ± OR TO SOUND CONCRETE).
- JOINT LOCATION SHOWN - OTHER LOCATIONS SIMILAR.

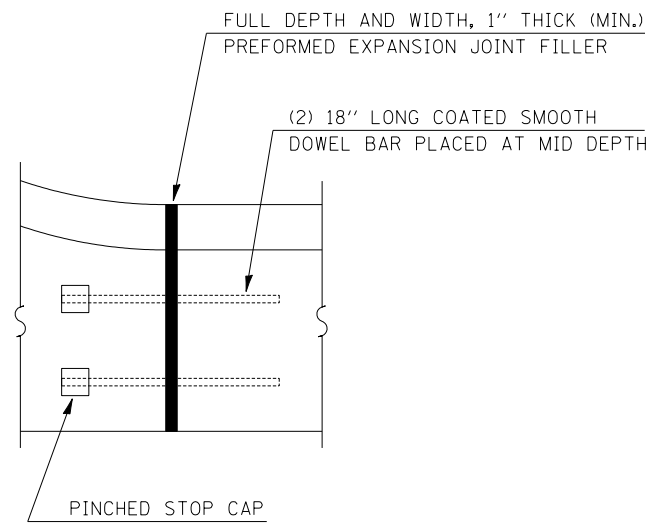
DESIGNED	NAME	DATE	REVISIONS	DATE
D.L.P.	D.L.P.	2/99	NAME	
CHECKED	J.M.S.	2/99	D.L.P.	03/99
CADD NO.	C-5.01		K.A.G.	06/03

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

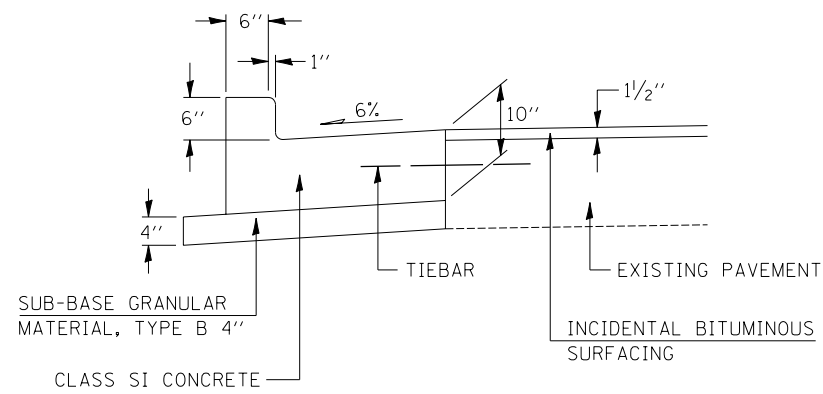
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	54

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

DETAIL OF OUTLET (SPECIAL)

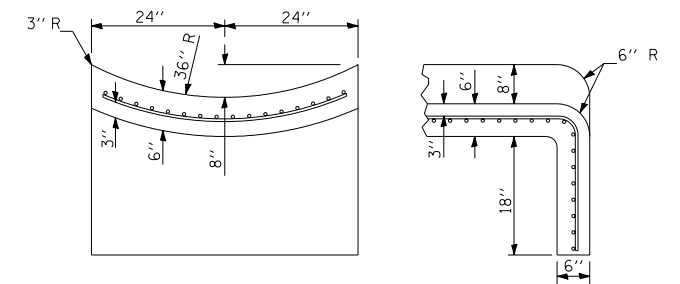
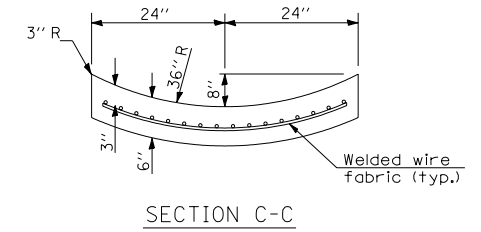
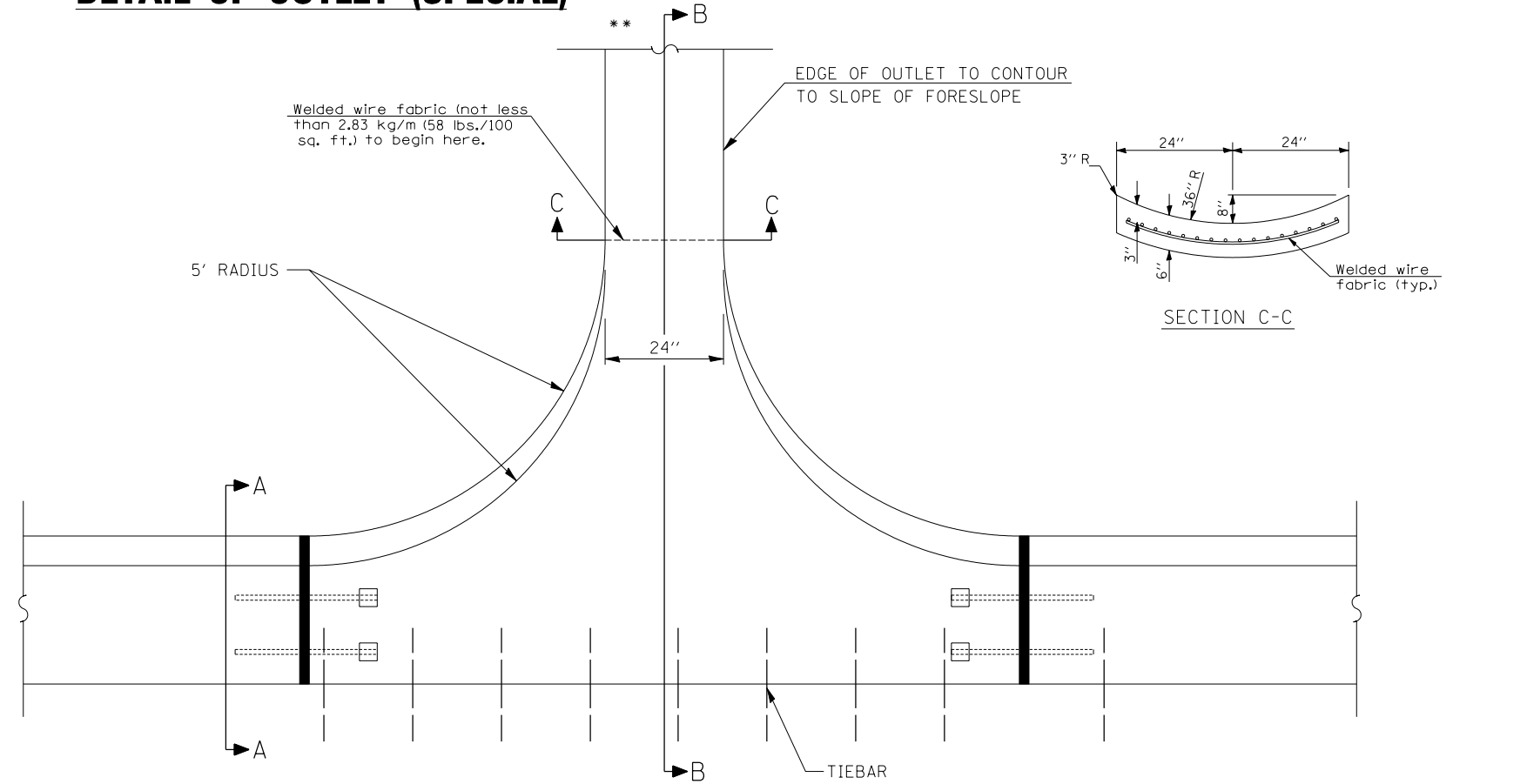


DETAIL OF EXPANSION JOINT

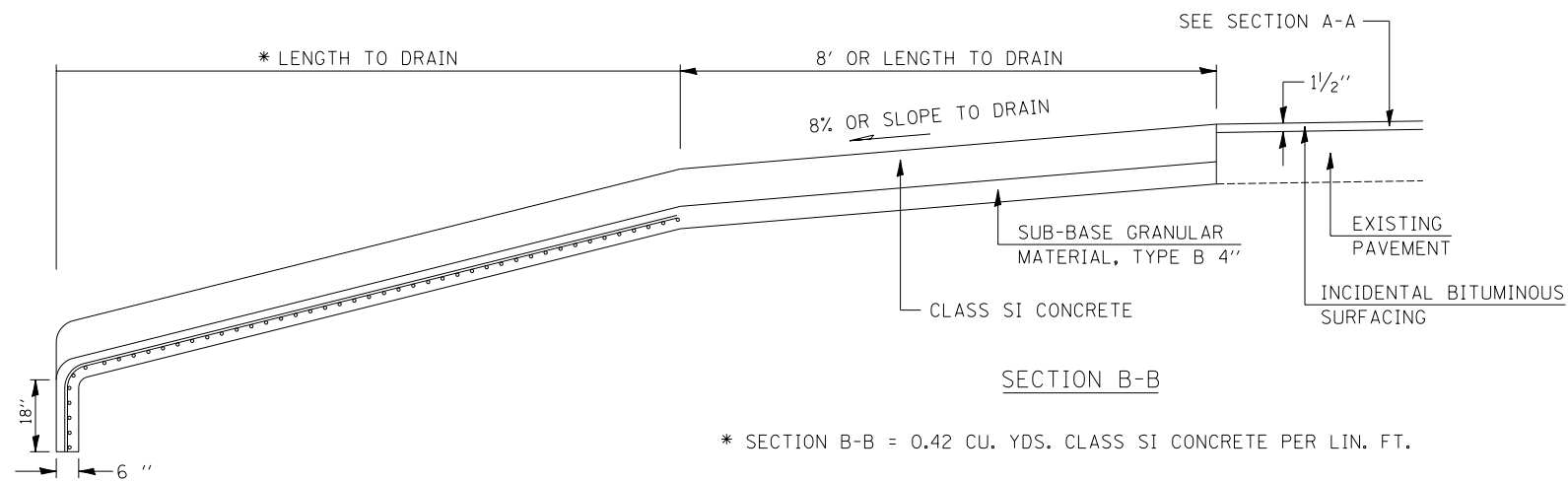


SECTION A-A

WHEN t=8" V=1.21 CU. YDS. CLASS SI CONCRETE + B-B
WHEN t=9" V=1.27 CU. YDS. CLASS SI CONCRETE + B-B
WHEN t=10" V=1.33 CU. YDS. CLASS SI CONCRETE + B-B
WHEN t=11" V=1.38 CU. YDS. CLASS SI CONCRETE + B-B



** SECTIONS AT END OF OUTLET



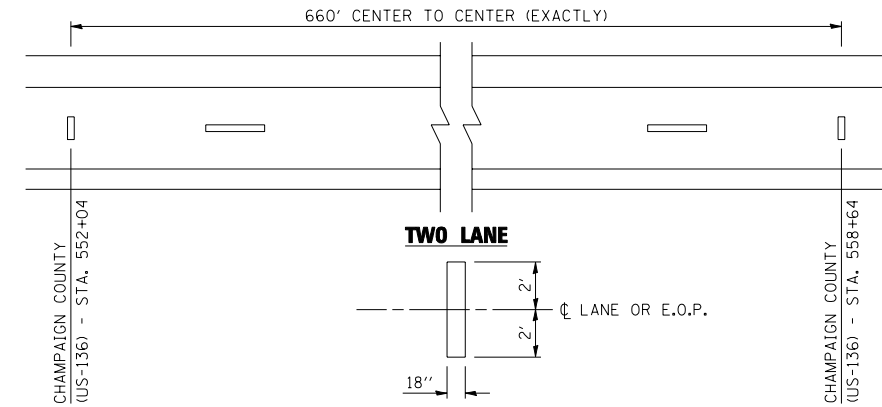
GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. TIE BARS SHALL BE NO. 6 AT 24" CENTERS UNLESS OTHERWISE SHOWN.
3. OUTLET (SPECIAL) SHALL BE TIED TO PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINTS SHOWN ON STANDARD 420001.
4. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR OUTLET (SPECIAL) WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	55

* 113(RS-5,BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

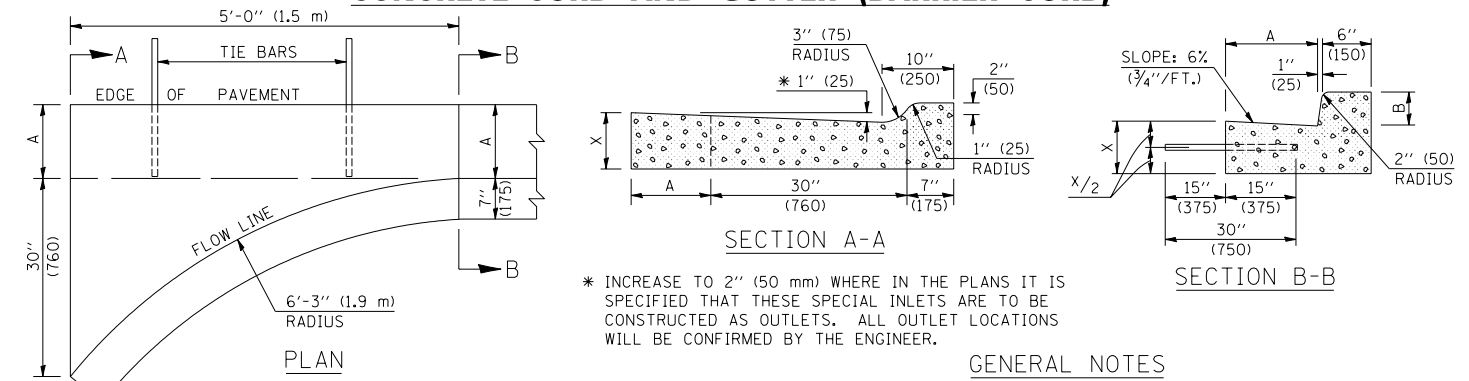
AERIAL SPEED CHECK ZONES



GENERAL NOTES

1. THERMOPLASTIC SHALL BE USED THROUGHOUT.
2. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR AERIAL SPEED CHECK MARKING WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIALS AS SPECIFIED AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

DETAIL OF SPECIAL INLET FOR COMBINATION CONCRETE CURB AND GUTTER (BARRIER CURB)



GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. TIE BARS SHALL BE NO. 6 (NO. 20) AT 24" (600 mm) CENTERS UNLESS OTHERWISE SHOWN. SPECIAL INLETS AND OUTLETS SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.
3. TIE BARS SHOWN ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL TO CLASS SI CONCRETE OUTLETS.
4. WHEN SPECIAL INLET IS CONSTRUCTED ADJACENT TO FLEXIBLE PAVEMENT, THE TIE BARS SHALL BE OMITTED AND ALL CONSTRUCTION JOINTS SHALL BE PROVIDED WITH A DOWEL BAR CONFORMING TO ARTICLE 1006.11(b).
5. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU. YD. (m³) FOR CLASS SI CONCRETE (OUTLETS) WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

	B-6.12 (B-15.30)	B-9.12 (B-22.30)	B-6.18 (B-15.45)	B-9.18 (B-22.45)	B-6.24 (B-15.60)	B-9.24 (B-22.60)
A	12" (300)	12" (300)	18" (450)	18" (450)	24" (600)	24" (600)
B	6" (150)	6" (150)	6" (150)	6" (150)	6" (150)	6" (150)
X	9" (225)	10" (250)	9" (225)	10" (250)	9" (225)	10" (250)
CU. YD. (m ³)	0.37 (0.28)	0.42 (0.32)	0.38 (0.29)	0.42 (0.32)	0.44 (0.34)	0.49 (0.37)
CLASS SI CONCRETE (OUTLETS)	0.37 (0.28)	0.42 (0.32)	0.38 (0.29)	0.42 (0.32)	0.44 (0.34)	0.49 (0.37)

	NAME	DATE	REVISIONS	NAME	DATE
DESIGNED	J.H.M.	6/88			
CHECKED	P.E.K.	6/88		D.L.P.	10/96
CADD NO.	A-2.01			K.A.G.	06/03

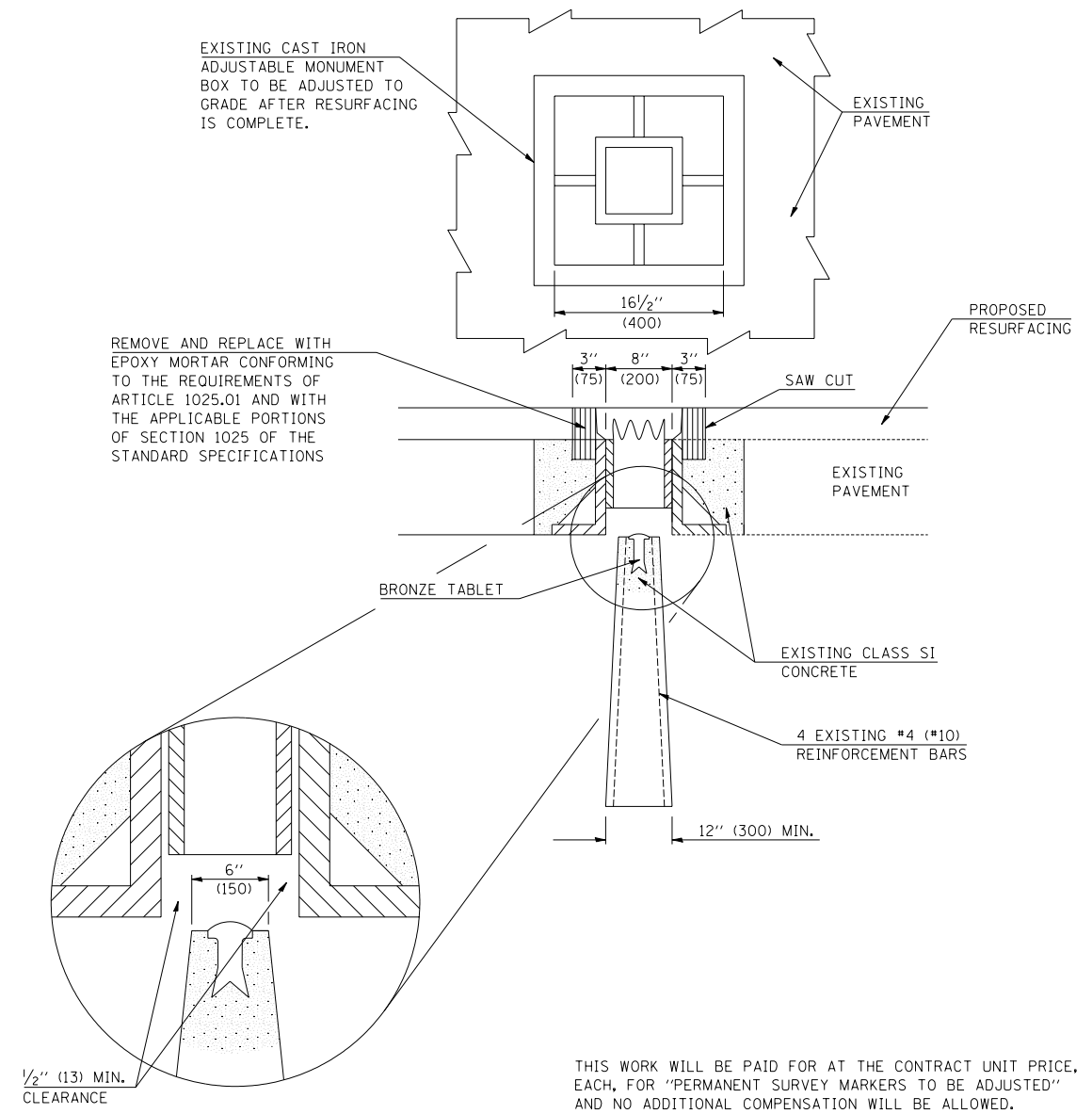
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	56

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

66700110 – PERMANENT SURVEY MARKERS TO BE ADJUSTED

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



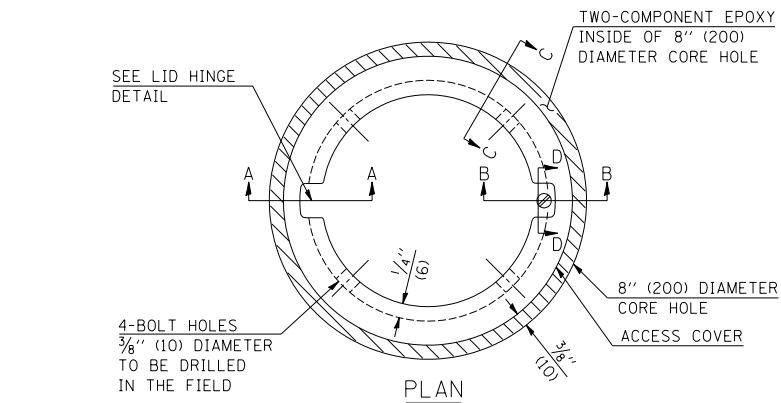
	NAME	DATE	REVISIONS	
DESIGNED	Pr.A.T.	1994	NAME	DATE
CHECKED	D.L.P.	12-95	D.L.P.	12-95
CADD NO.	D-1.06		K.A.G.	08-04

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

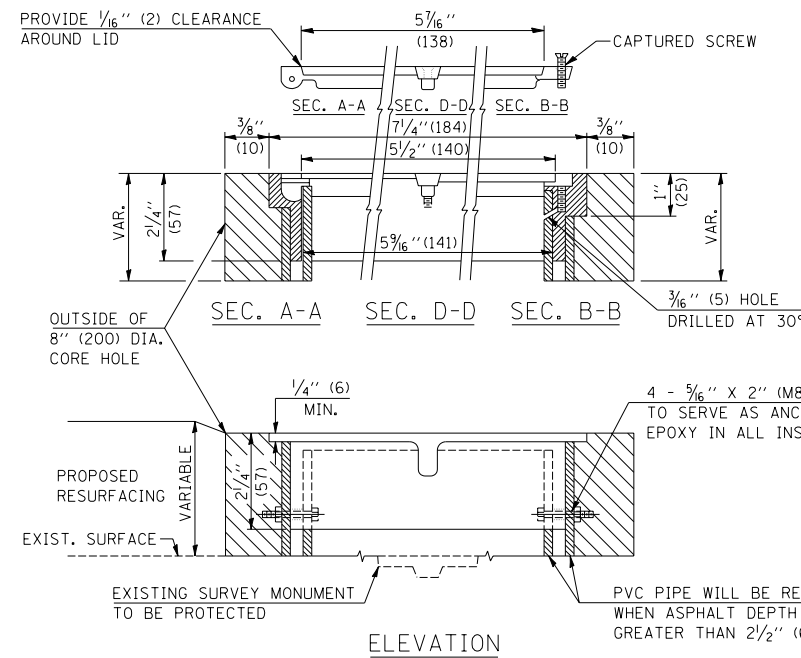
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	57

Z0070100 – SURVEY MONUMENT COVER ASSEMBLY

TO BE INSTALLED IN ALL PAVEMENT TYPES FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S) AND LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)

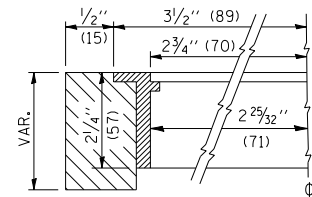


SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; Q0-A-601Es. NO EXCEPTIONS.

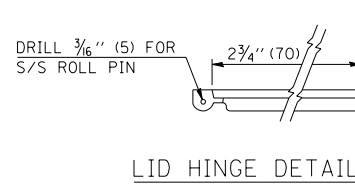


LEGEND

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



SECTION C-C



LID HINGE DETAIL

GENERAL NOTES

- WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
- THE SURVEY MONUMENT COVER ASSEMBLY SHALL BE CENTERED ABOVE THE SURVEY MONUMENT TO BE PROTECTED.
- MODIFICATION OF THE ALUMINUM CASTING SHALL BE DONE BY GRINDING OR SAWING WHEN HEIGHT REDUCTION IS REQUIRED.
- ALL SURVEY MONUMENT COVER ASSEMBLIES SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
- ALUMINUM CASTING SHALL BE PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE WHEN AN INCREASE IN HEIGHT IS REQUIRED.
- THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MONUMENT COVER ASSEMBLY WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING THE NEW PAVEMENT SURFACE AND EPOXY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

BILL OF MATERIAL

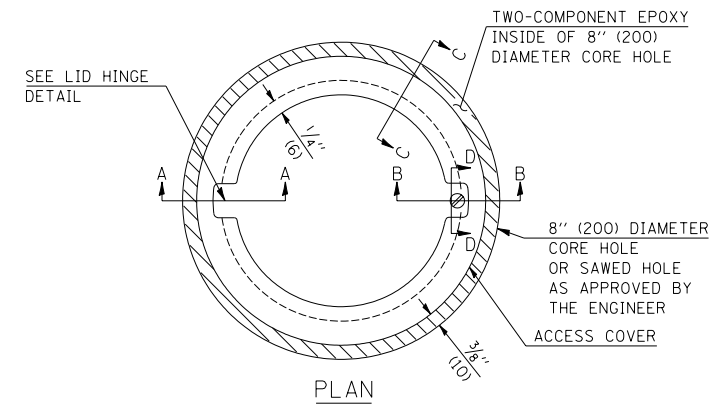
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 4 EACH - 5/16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).

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

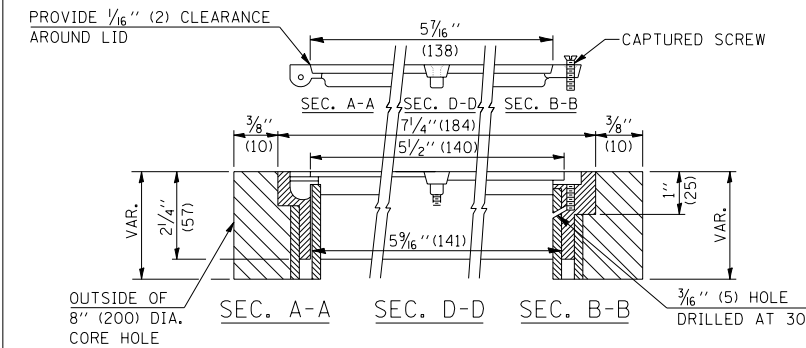
DESIGNED	NAME	DATE	REVISIONS
DESIGNED	A.W.H.	2-28-91	NAME DATE
CHECKED	J.H.M.	2-28-91	D.L.P. 10/96
CADD NO.	D-1.04		K.A.G. 08/04

X0301232 – SURVEY MARKER VAULT

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

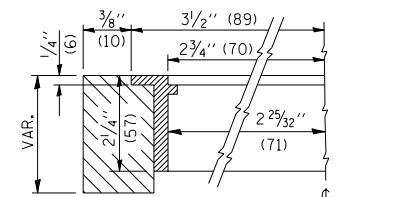


SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; Q0-A-601Es. NO EXCEPTIONS.

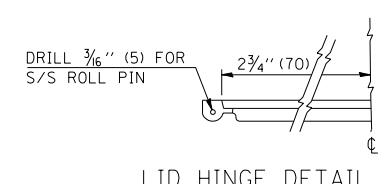


LEGEND

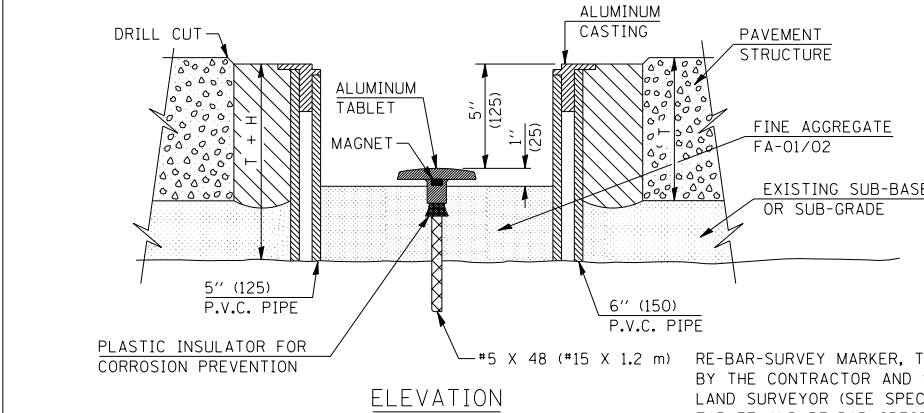
- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY
- T = THICKNESS OF PAVEMENT STRUCTURE
- H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)



SECTION C-C



LID HINGE DETAIL



ELEVATION

GENERAL NOTES

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

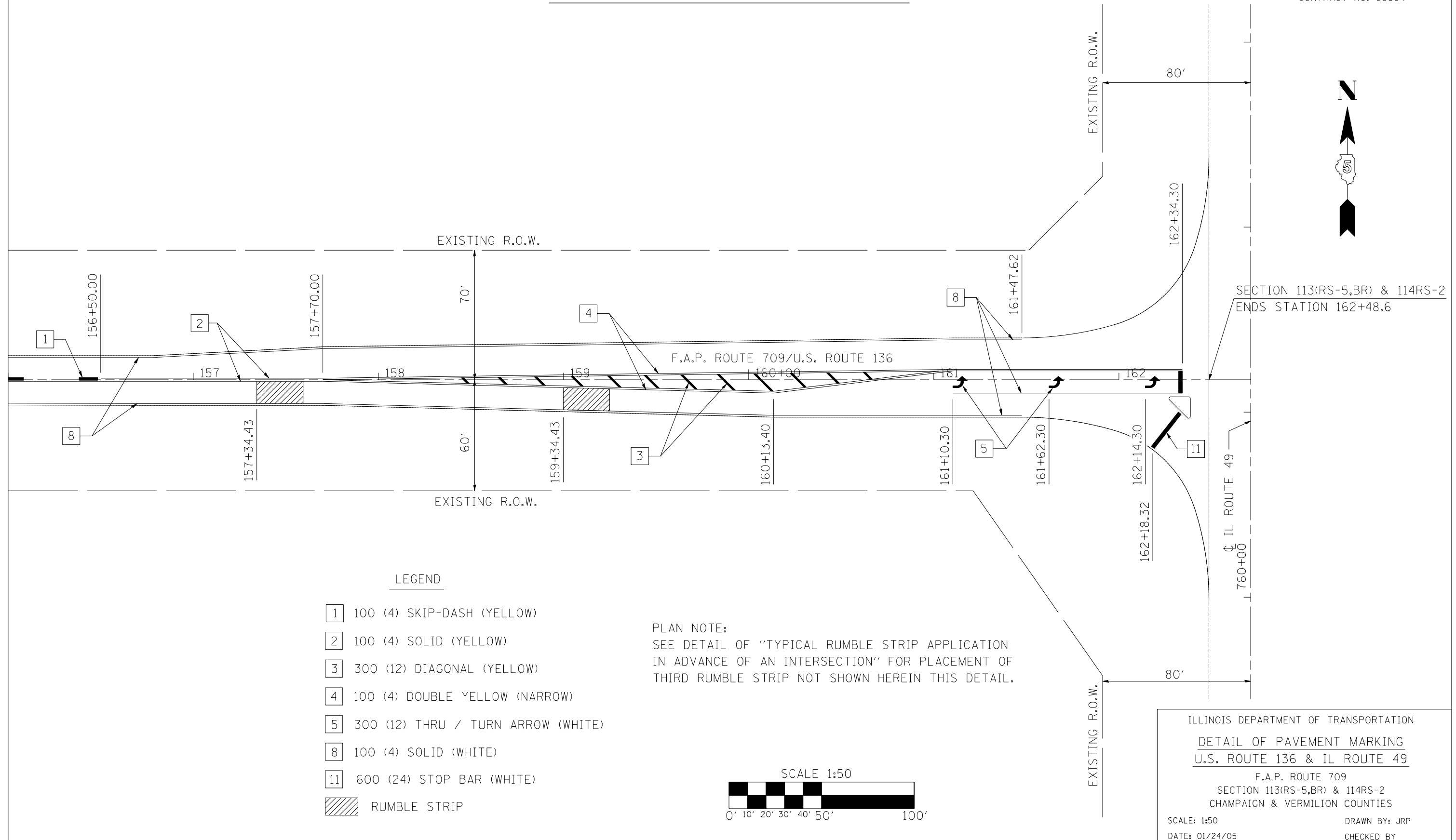
BILL OF MATERIAL

ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 667101. 3/8" X 48" (#15 X 1.2 m) RE-BAR, EPOXY AND FA-01/02 AGGREGATE.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	58

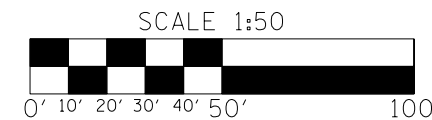
DETAIL OF PAVEMENT MARKING U.S. ROUTE 136/IL ROUTE 49

* 113(RS-5,BR) & 114RS-2
** CHAMPAIGN & VERMILION
CONTRACT NO. 90864



- LEGEND
- 1 100 (4) SKIP-DASH (YELLOW)
 - 2 100 (4) SOLID (YELLOW)
 - 3 300 (12) DIAGONAL (YELLOW)
 - 4 100 (4) DOUBLE YELLOW (NARROW)
 - 5 300 (12) THRU / TURN ARROW (WHITE)
 - 8 100 (4) SOLID (WHITE)
 - 11 600 (24) STOP BAR (WHITE)
 - RUMBLE STRIP

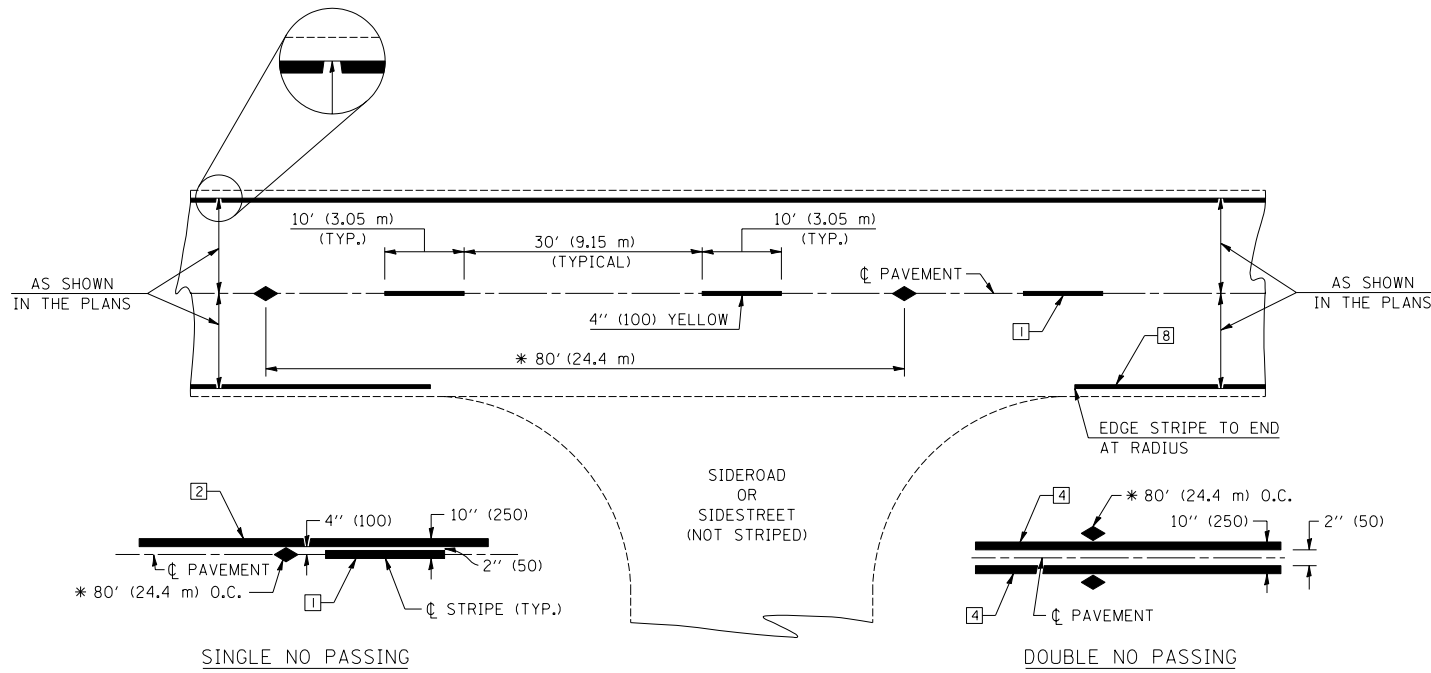
PLAN NOTE:
SEE DETAIL OF "TYPICAL RUMBLE STRIP APPLICATION
IN ADVANCE OF AN INTERSECTION" FOR PLACEMENT OF
THIRD RUMBLE STRIP NOT SHOWN HEREIN THIS DETAIL.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	59

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

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.

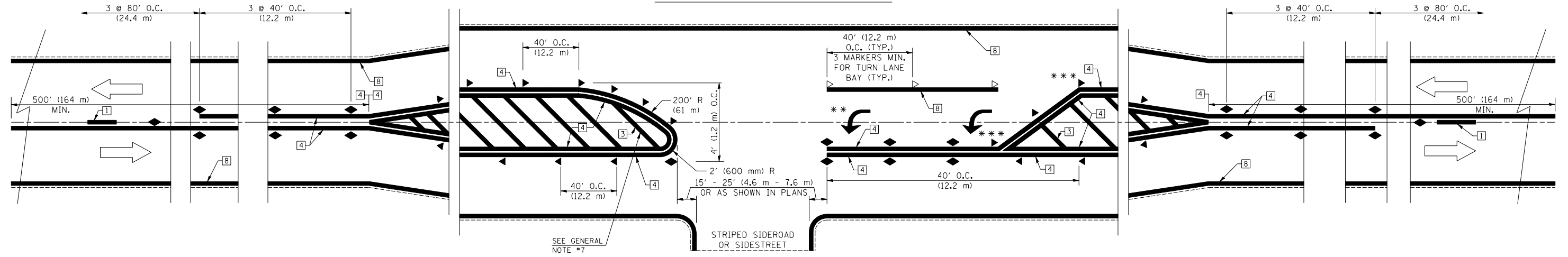
TYPICAL PAVEMENT MARKING LEGEND

- 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

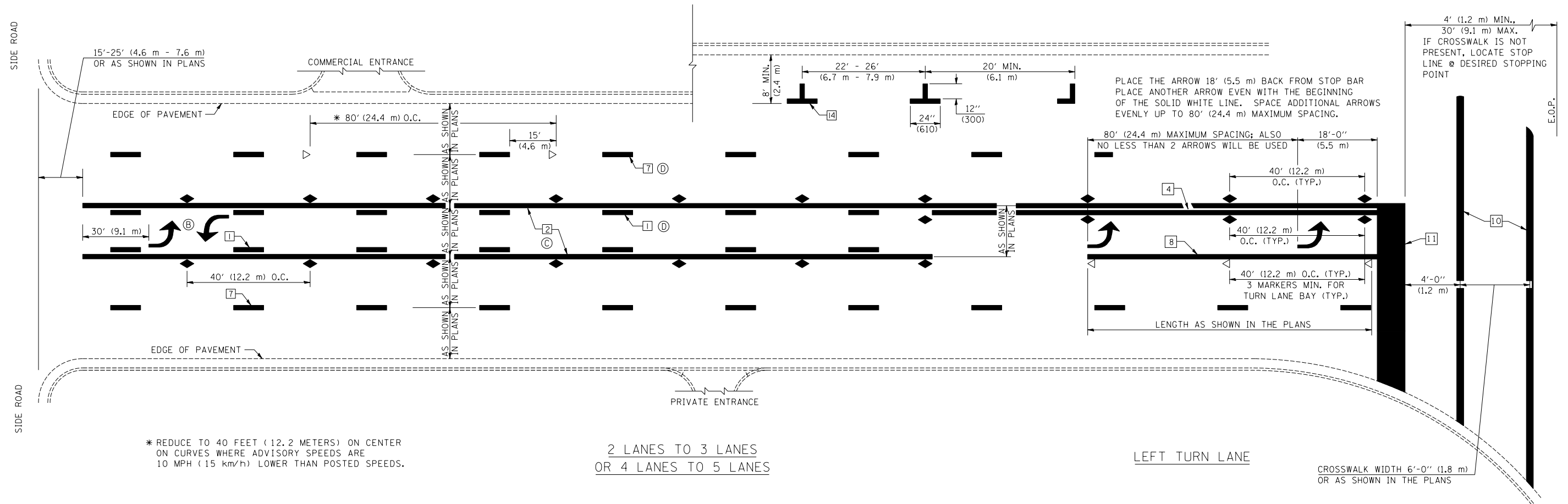
DESIGNED	NAME	DATE	REVISIONS	NAME	DATE
J.M.H.	J.M.H.	5/85			
6/88					
CHECKED	FMS	6/85		GEOMETRICS/K.A.G.	07/02
CADD NO.	F-5,25	6/88		K.A.G.	08/04

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	60

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

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

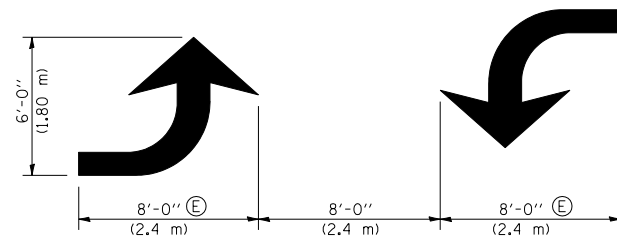
DESIGNED	NAME	DATE	REVISIONS
J.M.H.	5/85	6/88	NAME
FMS	6/85	6/88	GEOMETRICS/K.A.G.
CADD NO.	F-5.25		K.A.G.

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

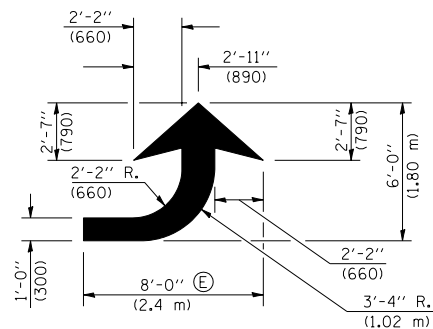
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	61

* 113(RS-5, BR) & 114RS-2
 ** CHAMPAIGN & VERMILION
 CONTRACT NO. 90864

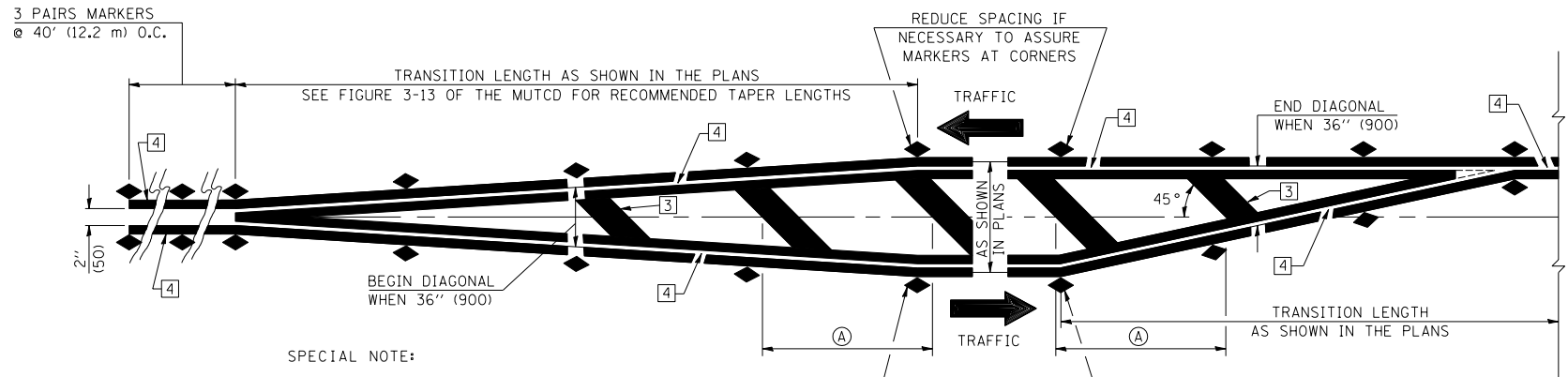
TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



TYPICAL DOUBLE TURN ARROWS (WHITE)

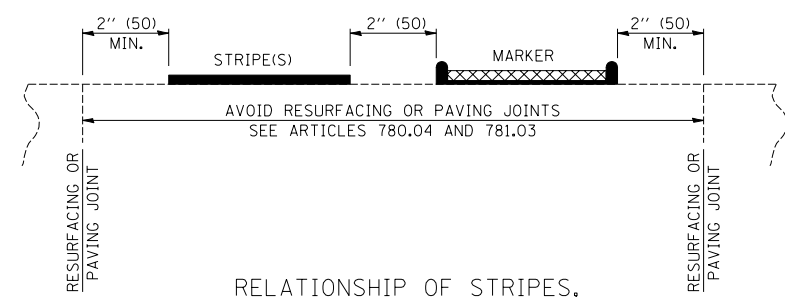


LEFT ARROW
 REVERSE FOR RIGHT ARROW
 AREA = 15.6 SQ. FT. (1.47 m²)
 (WHITE)

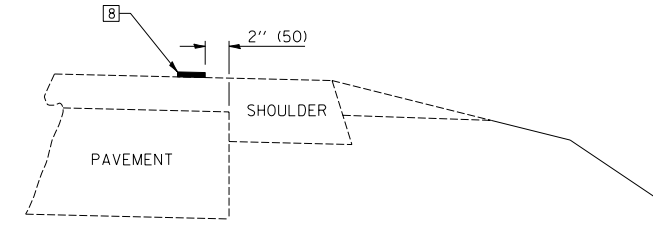


SPECIAL NOTE:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

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)

SHEET 3 OF 3

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

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	62
STA. 8+50.00 TO STA.9+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* 113(RS-5,BR) & 114RS-2 * * CHAMPAIGN & VERMILION CONTRACT NO. 90864				

PARK AVE.

785

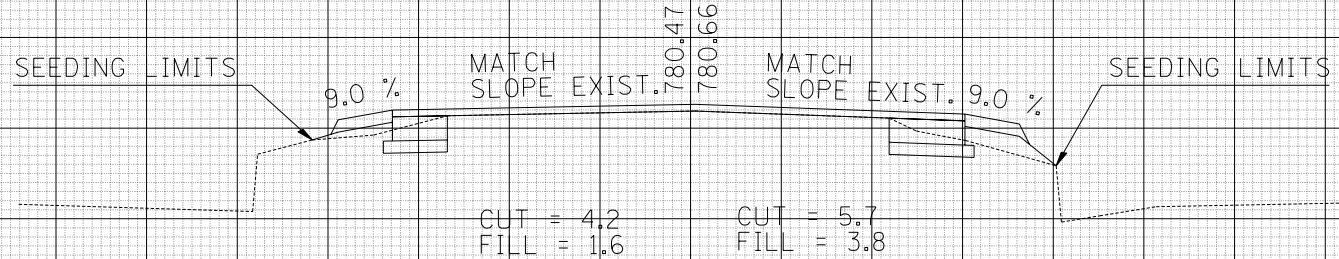
785

780

780

775

775



9+70.00

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

DATE	BY

DATE	BY

2/28/2006 c:\projects\4500297\sheet\sheet_xsp01r.k.dgn

FINAL SURVEY NO. _____

SURVEYED _____

PLOTTED _____

DATE _____

AREAS CHECKED _____

ORIGINAL SURVEY NO. _____

SURVEYED _____

PLOTTED _____

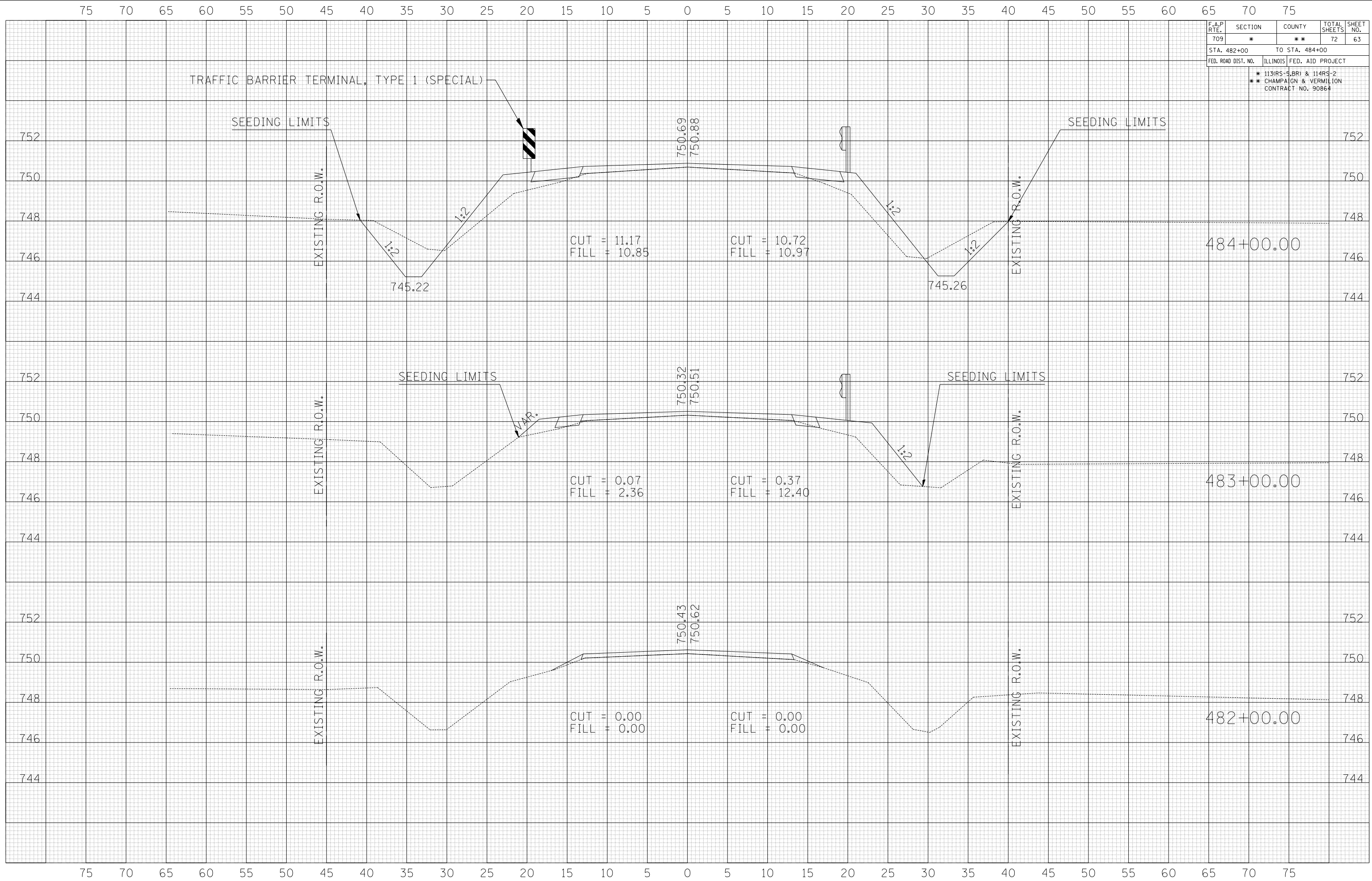
DATE _____

AREAS CHECKED _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	63
STA. 482+00		TO STA. 484+00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				

BY	DATE

BY	DATE



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

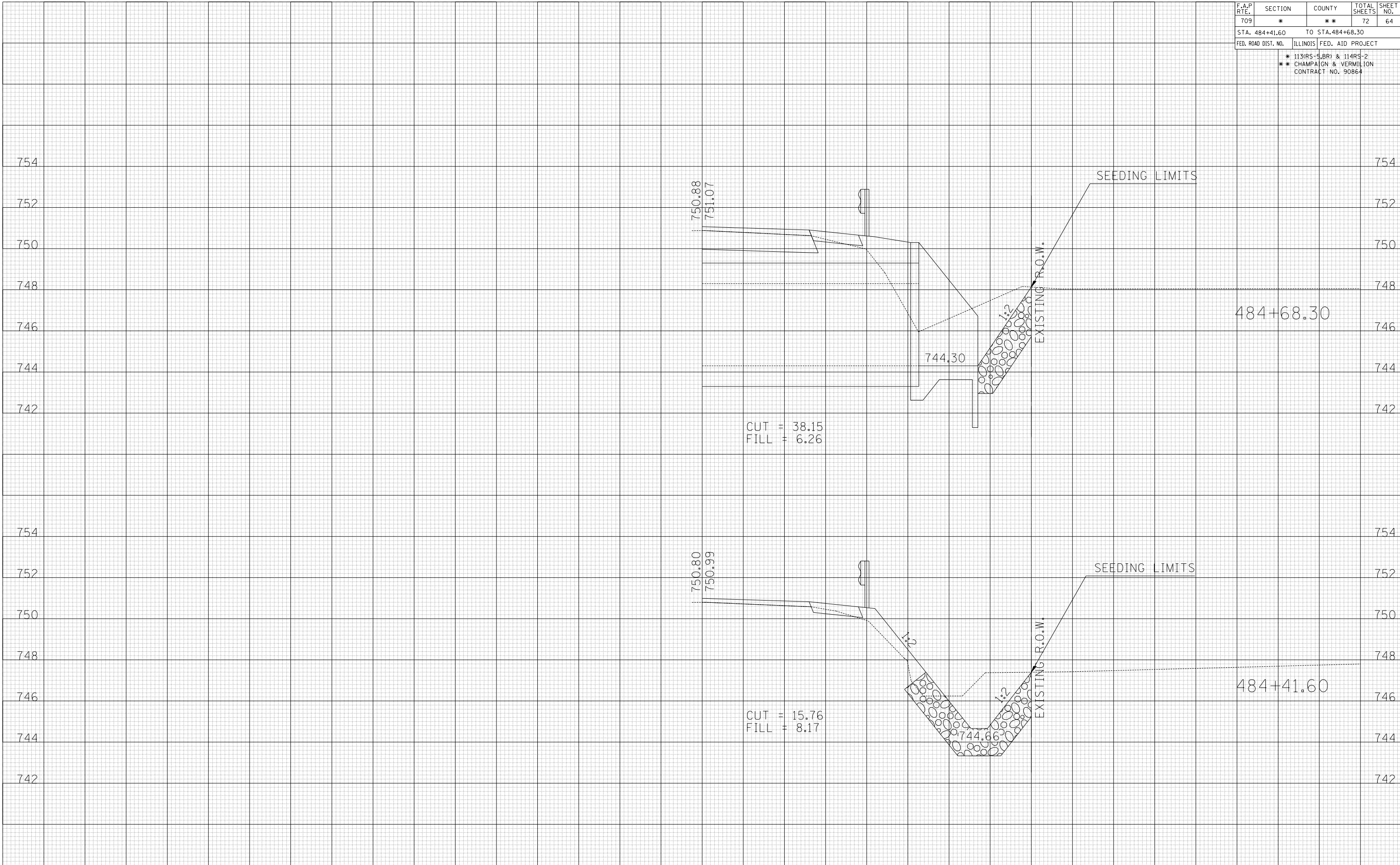
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	64
STA. 484+41.60		TO STA. 484+68.30		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				

BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	DATE	AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE	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

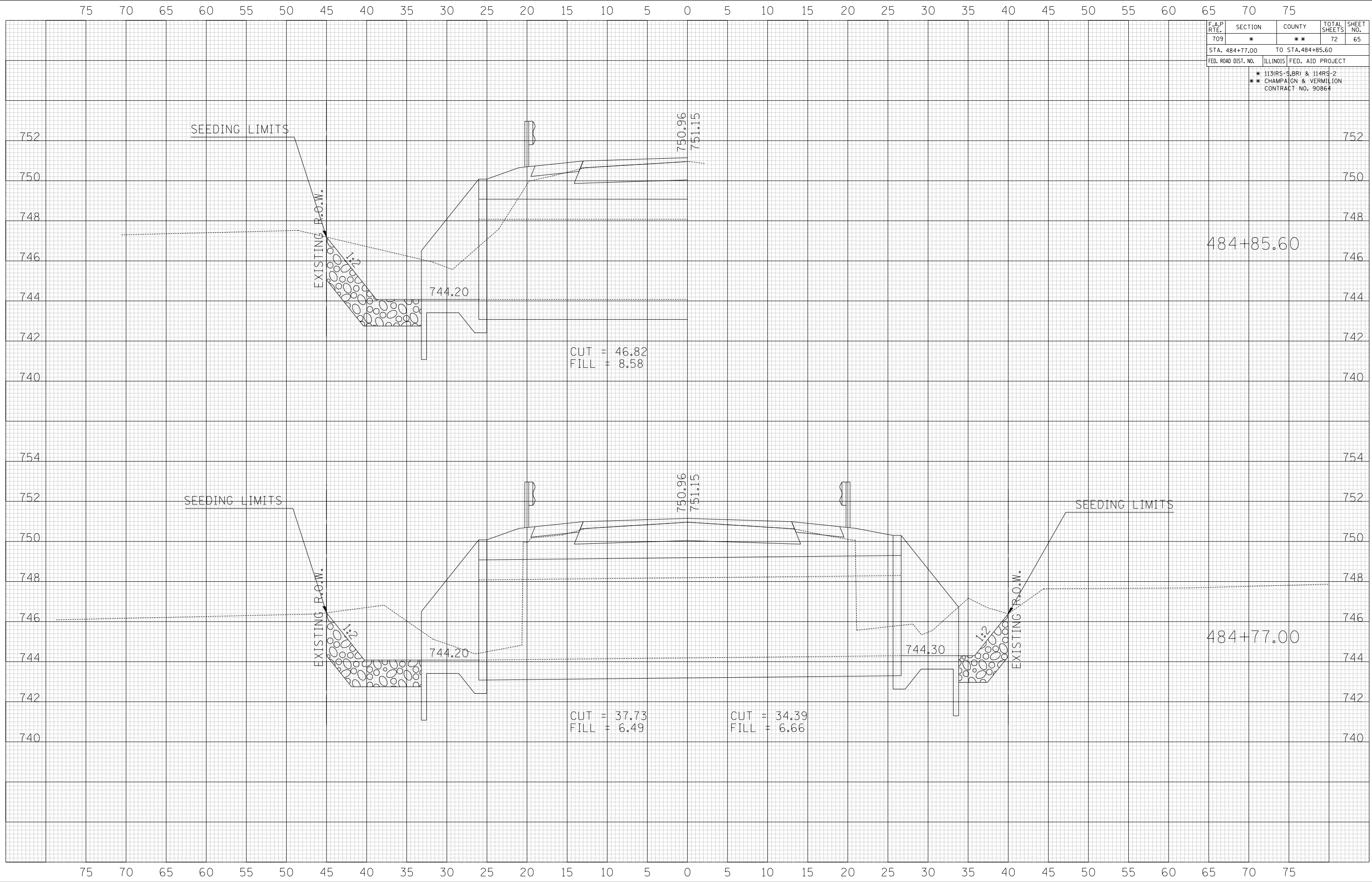
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	65
STA. 484+77.00		TO STA. 484+85.60		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 113(RS-5,BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				

BY	DATE

FINAL SURVEY NO.	SURVEYED	PLOTTED	DATE	AREAS CHECKED

BY	DATE

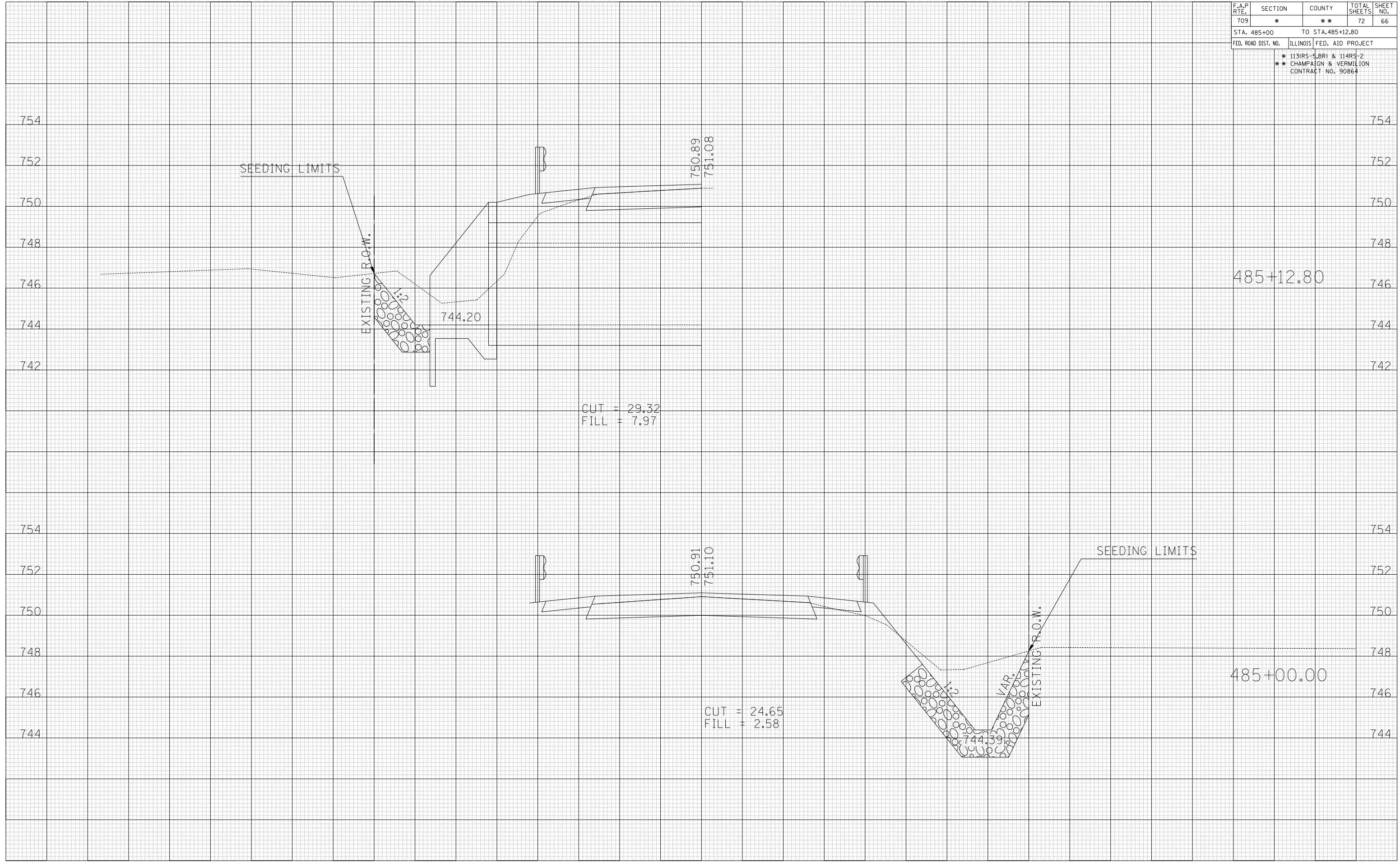
ORIGINAL SURVEY NO.	SURVEYED	PLOTTED	DATE	AREAS CHECKED



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	66
STA. 485+00 TO STA. 485+12.80				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
	* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864			

BY	DATE

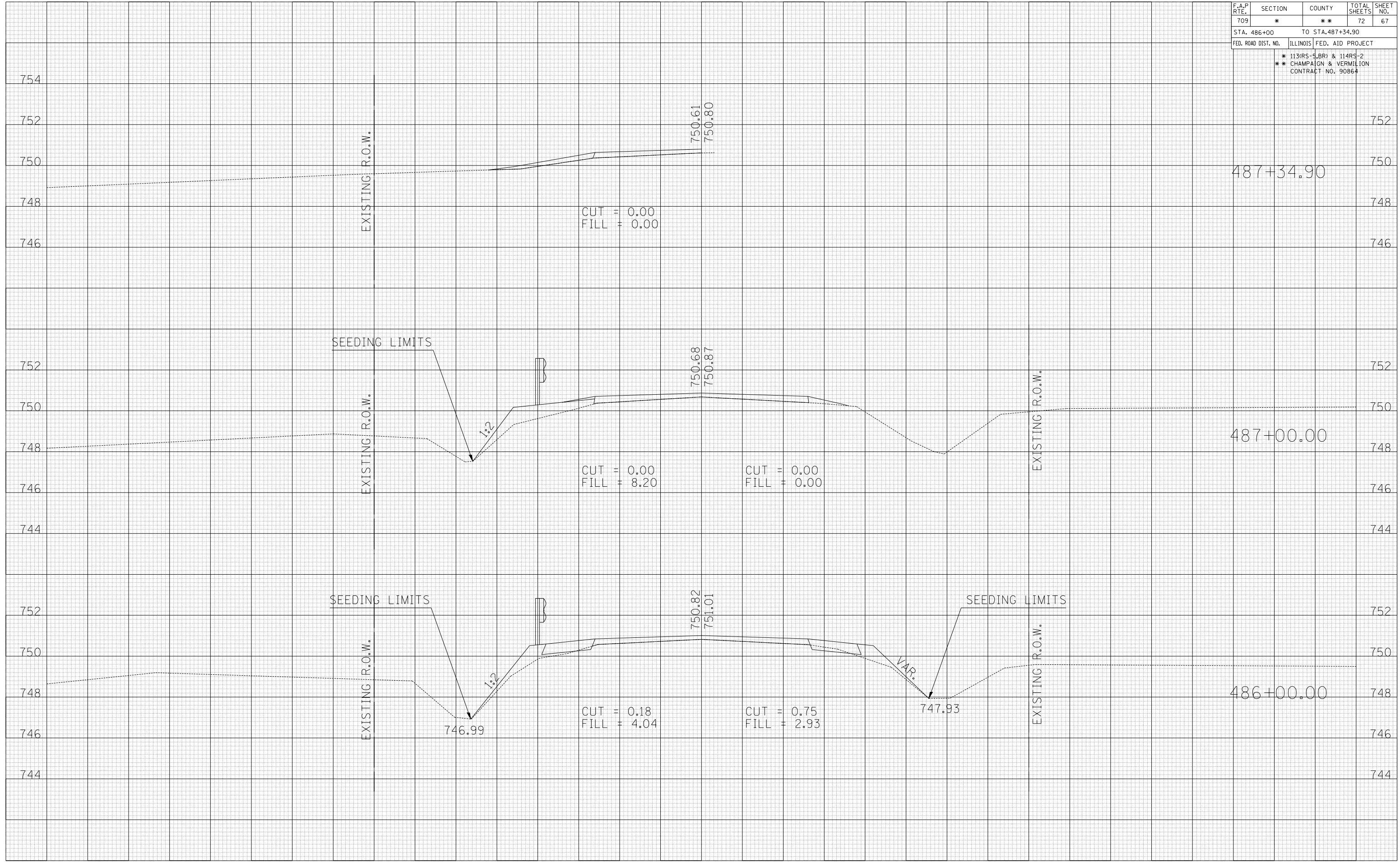
BY	DATE



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	67
STA. 486+00 TO STA. 487+34.90				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				

BY	DATE

BY	DATE



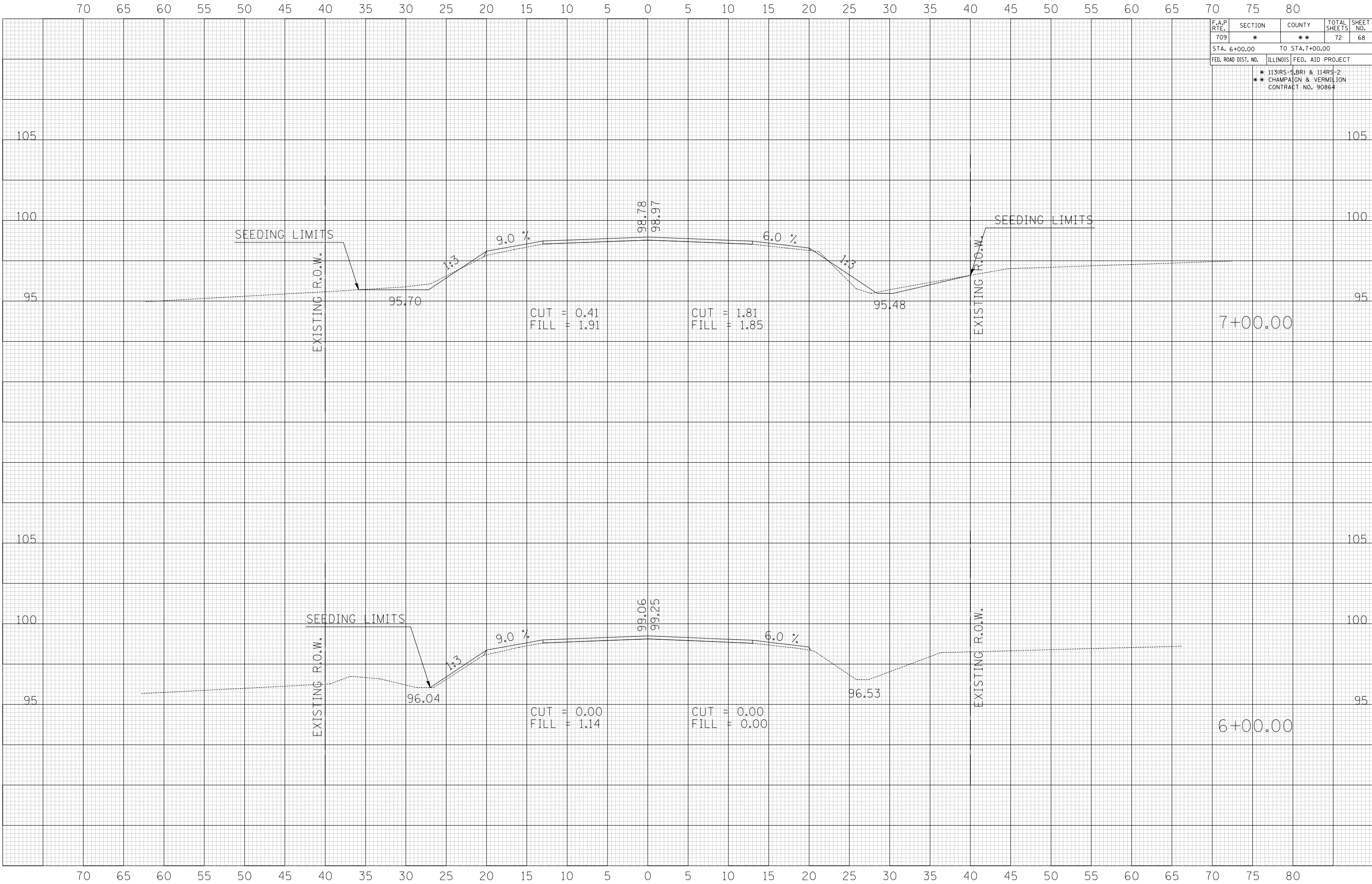
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	68
STA. 6+00.00 TO STA. 7+00.00				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
	* 113(RS-5,BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864			

BY	DATE

NO.	DATE	BY	DESCRIPTION

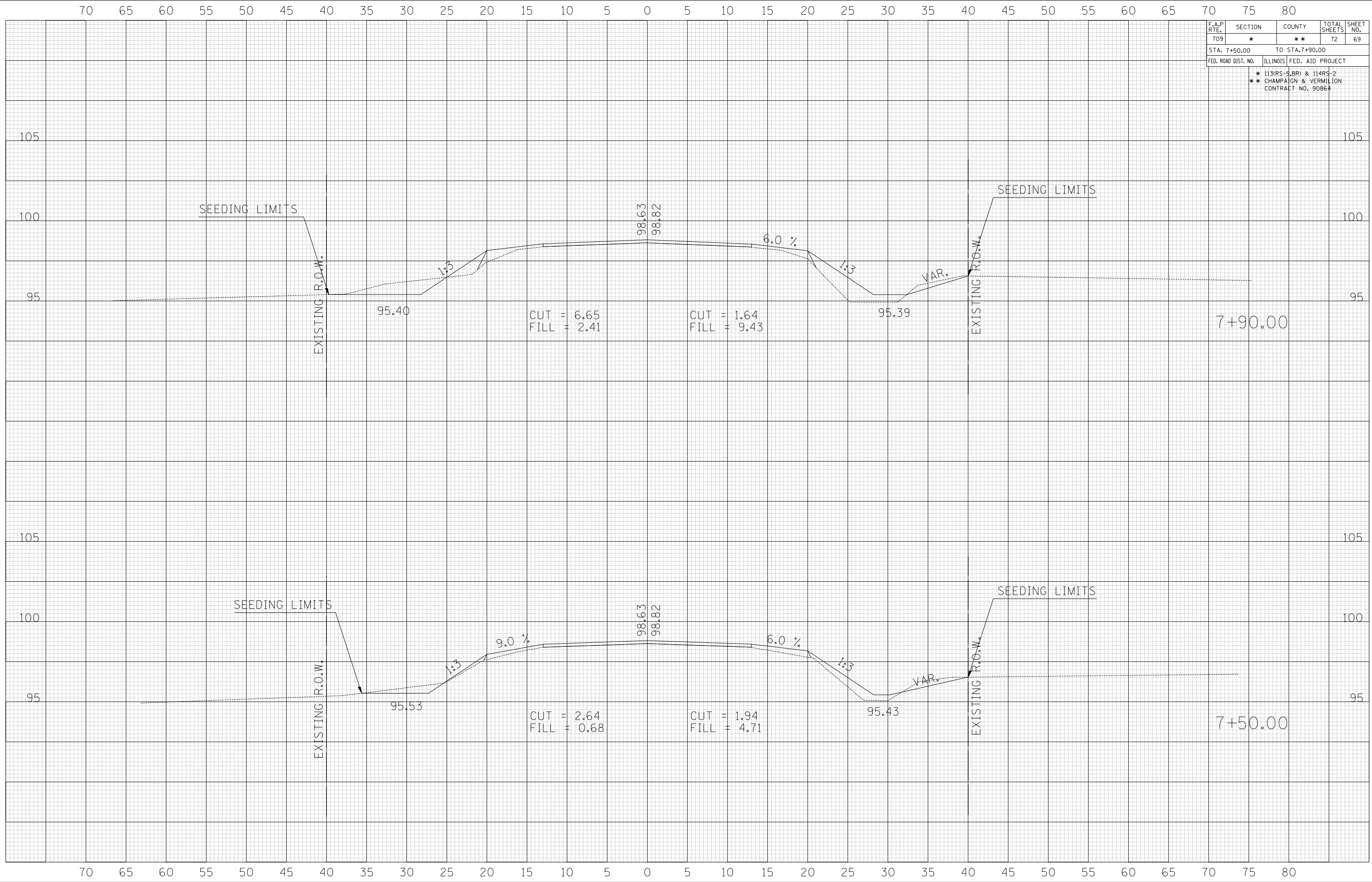
BY	DATE

NO.	DATE	BY	DESCRIPTION



2/28/2006
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	69
STA. 7+50.00 TO STA. 7+90.00				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* 113(RS-5, BR) & 114(RS-2)				
** CHAMPAIGN & VERMILION CONTRACT NO. 90864				



BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

2/28/2006
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	70
STA. 7+94.58 TO STA. 8+00.00				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* 113(RS-5, BR) & 114RS-2 ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				

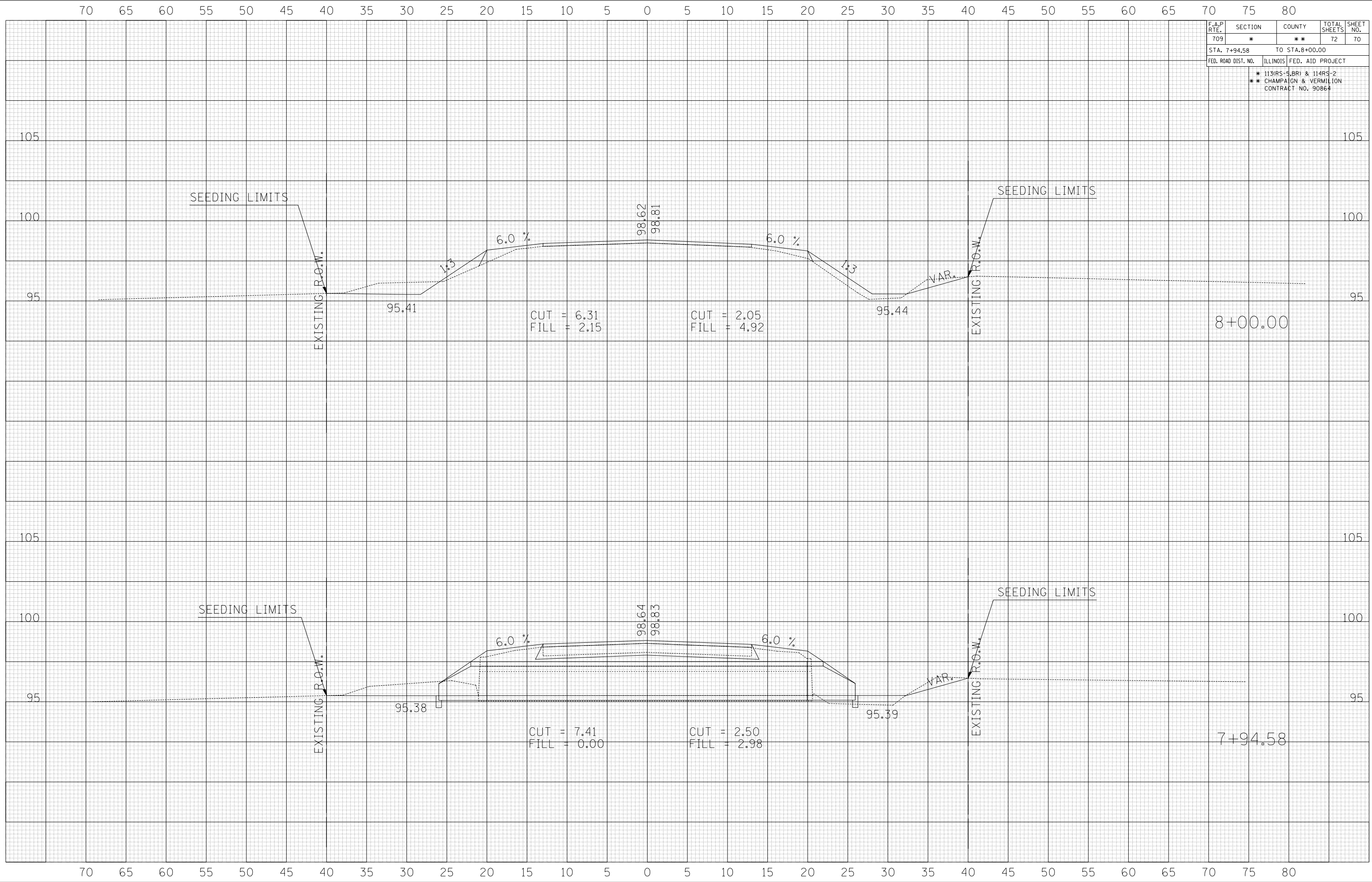
BY	DATE

NO.	DATE	BY	DESCRIPTION

BY	DATE

NO.	DATE	BY	DESCRIPTION

2/28/2006
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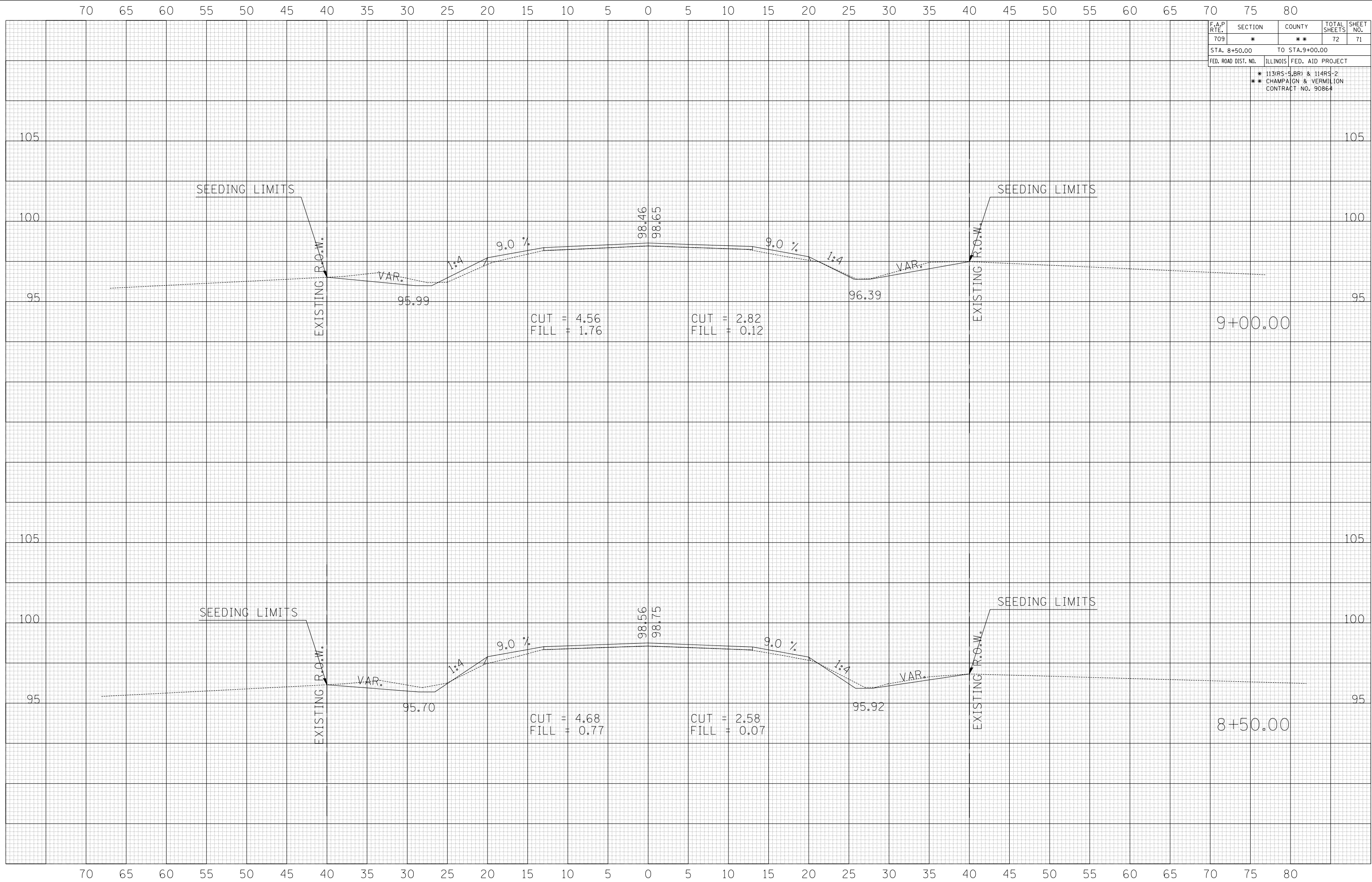
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	71
STA. 8+50.00 TO STA. 9+00.00				
ILLINOIS FED. AID PROJECT				
* 113(RS-5,BR) & 114(RS-2) ** CHAMPAIGN & VERMILION CONTRACT NO. 90864				

BY	DATE

NO.	DATE	BY	DESCRIPTION

BY	DATE

NO.	DATE	BY	DESCRIPTION



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	*	**	72	72
STA. 9+50.00		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* 113(RS-5, BR) & 114(RS-2) * CHAMPAIGN & VERMILION CONTRACT NO. 90864				

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