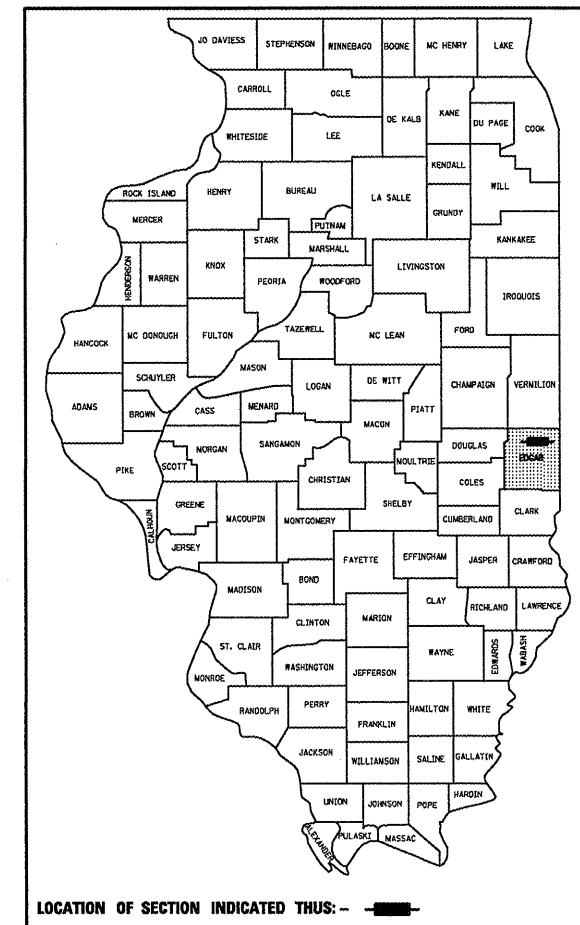


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

D-95-043-00



FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4 - 7

ADDITIONAL STRUCTURE INFORMATION

S.N.	SCOPE OF WORK
16-02	CULVERT REPLACEMENT
18-22	CULVERT REPLACEMENT
18-52	CULVERT REPLACEMENT
023-0010	OMISSION
023-0025	OMISSION
023-0030	OMISSION
023-8017	HMA RESURFACING
023-8018	HMA RESURFACING
023-8311	HMA RESURFACING

F.A.P. ROUTE 323 (U.S. ROUTE 36)
SECTION (149,150)RS-3

EDGAR COUNTY

C-95-105-00

RESURFACING MAINTENANCE (3P),
GUARDRAIL, CULVERT REPLACEMENT

US 150 AT CHRISMAN TO INDIANA STATE LINE

PROP. S. N. 023-2017
CULVERT NO. 3
STATION 1833+78.50
PROP. PCC BOX CULVERT
4' X 2'

PROP. S. N. 023-8063
CULVERT NO. 2
STATION 1818+71.00
PROP. PCC BOX CULVERT
6' X 3'

S. N. 023-0010
STRUCTURE OMISSION
STATION 1785+07.35 TO
STATION 1786+32.63

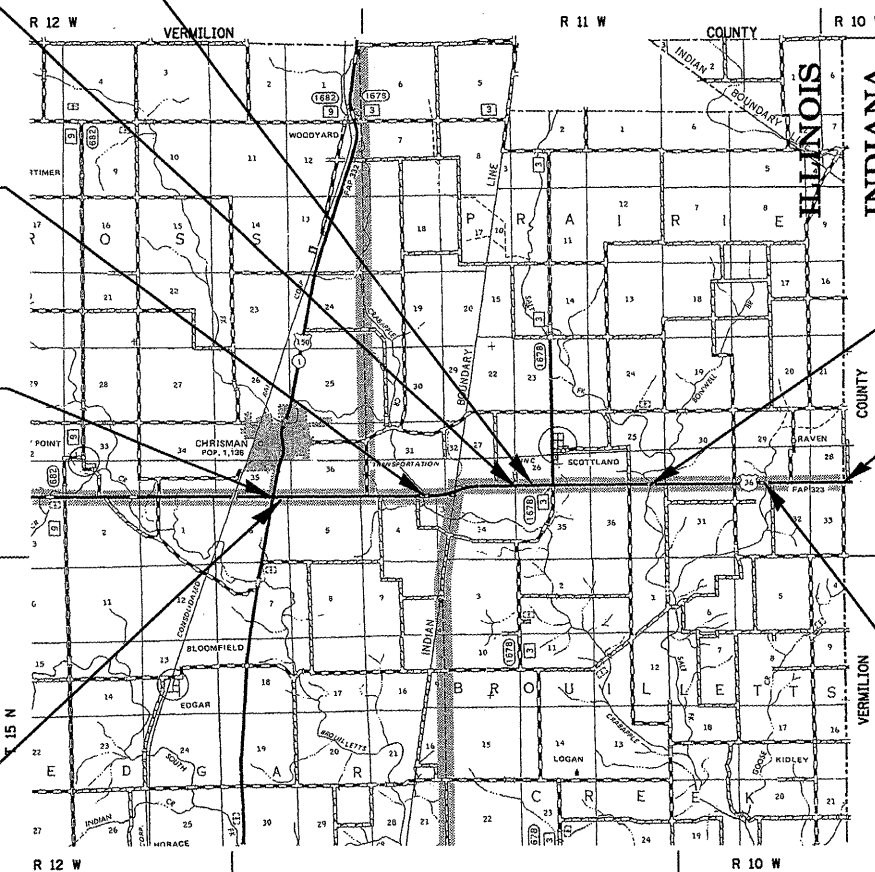
F. A. P. ROUTE 323
SECTION BEGINS
STATION 1681+95.00

S. N. 023-0025
STRUCTURE OMISSION
STATION 1944+65.00 TO
STATION 1945+91.80

F. A. P. ROUTE 323
SECTION ENDS
STATION 2081+75.87

S. N. 023-0030
STRUCTURE OMISSION
STATION 2027+66.58 TO
STATION 2028+59.42

CULVERT NO. 1
STATION 1701+41.00
PROP. PCC BOX CULVERT
2 @ 10' X 2'

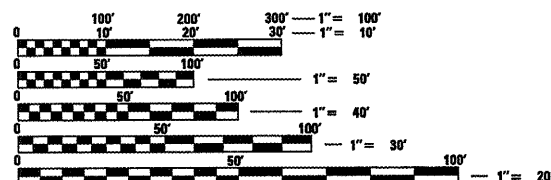


CURRENT ADT:

1,650 (2007)
PV = 73.4%
SU = 8.5%
MU = 18.1%

DESIGN DESIGNATION

OTHER PRINCIPAL ARTERIAL



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

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

CONTRACT NO. 70113

TOTAL LENGTH OF SECTION & PROJECT = 39980.870 FEET = 7.572 MILES
NET LENGTH OF SECTION & PROJECT = 39635.950 FEET = 7.507 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 4/6 20 09
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER
May 1, 20 09
ENGINEER OF DESIGN AND ENVIRONMENT
May 1, 20 09
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	2

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	INDEX OF SHEETS / HIGHWAY STANDARDS
3	GENERAL NOTES
4-7	SUMMARY OF QUANTITIES
8-13	EXISTING & PROPOSED TYPICAL CROSS SECTIONS
14-19	SCHEDULES OF QUANTITIES
20	MONUMENT RECOVERY TIES
21-34	PLAN SHEETS
35-41	DETAILS OF A. R. CULVERT NO. 1
42-48	DETAILS OF A. R. CULVERT NO. 2
49-54	DETAILS OF A. R. CULVERT NO. 3
55-57	GUARDRAIL DETAILS
58	DETAIL OF MILLING TRANSITIONS
59-60	PAVEMENT MARKING & RUMBLE STRIP DETAILS
61-64	PAVEMENT MARKINGS AND MARKERS (RURAL & URBAN APPLICATIONS)
65	RUMBLE STRIP (ADVANCE OF INTERSECTIONS)
66	SURVEY MONUMENT COVER ASSEMBLY
67-83	CROSS-SECTIONS

LIST OF STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCING BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEM
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
542401-01	NAME PLATES FOR BRIDGES
630001-08	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
631031-07	TRAFFIC BARRIER TERMINAL TYPE 6
631032-04	TRAFFIC BARRIER TERMINAL TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701006-03	TRAFFIC CONTROL AND PROTECTION
701011-02	TRAFFIC CONTROL AND PROTECTION
701201-03	TRAFFIC CONTROL AND PROTECTION
701206-02	TRAFFIC CONTROL AND PROTECTION
701301-03	TRAFFIC CONTROL AND PROTECTION
701306-02	TRAFFIC CONTROL AND PROTECTION
701311-03	TRAFFIC CONTROL AND PROTECTION
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL APPLICATIONS OF PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS OF RAISED REFLECTIVE PAVEMENT MARKERS

PLOT DATE = 4/1/2009
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 PLOT SCALE = 42.3223 / IN.
 USER NAME = sh07384

ILLINOIS DEPARTMENT OF TRANSPORTATION
INDEX OF SHEETS
& LIST OF STANDARDS
 F.A.P. ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY
 SCALE: N/A
 DATE: 05/02/2006
 DRAWN BY: CADD
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	3

GENERAL NOTES

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

G. N. -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. -250C
SEEDING, CLASS 7 IS INCLUDED IN THIS CONTRACT TO SEED THE AREAS ASSOCIATED WITH BOX CULVERT REPLACEMENTS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE CLASS 7 SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING 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. -406.05b
ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER.

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

G. N. -406H
MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location(s):	US 36	US 36	US 36	US 36
Mixture Use(s):	Surface & Incidental	Class D patching	HMA Shld.	Level Binder
PD Patches				
AC/PG:	PG 64-22	PG 64-22	PG 58-22	PG 64-22
RAP %: (Max)**	15%	25%	30%	25%
Design Air Voids:	4.0% @ Ndes = 50	4.0% @ Ndes = 50	3.0% @ Ndes = 30	4.0% @ Ndes = 50
Mixture Composition: (Gradation Mixture)	IL 9.5	IL 19.0	IL 9.5L	IL 9.5
Friction Aggregate:	Mix C	N/A	Mix C	Mix C

G. N. -442B Special * Patching Schedules
The patching quantities represent an estimate of Class D patching based on 0.5% of the total square yardage of the project. Patch type, size, and location will be determined by the Engineer.

G. N. -482
ALL MATERIAL PLACED AS BITUMINOUS SHOULDERS SUPERPAVE SHALL BE COMPACTED TO 94.0-98.4 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 QC/QA 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. -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. -631
IF THE CONTRACTOR ELECTS TO USE THE ALTERNATE MOUNTING METHOD OF THRU DRILLING THE MOUNTING HOLES FOR THE TRAFFIC BARRIER TERMINALS, TYPE 6, THE HOLES SHALL BE DRILLED USING A CORE DRILL. A HAMMER DRILL WILL NOT BE ALLOWED.

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

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

G. N. -781
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPENCY 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.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.A.P. ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: N/A
DATE: 05/02/2006

DRAWN BY: CADD
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	4

SUMMARY OF QUANTITIES

LOCATION OF WORK: STA. 1681+95.00
TO
STA. 2081+75.87
EDGAR COUNTY

CONSTRUCTION TYPE CODE: TOTAL
QUANTITY
100% STATE

CODE NO	ITEM	UNIT	1000
20200100	EARTH EXCAVATION	CU YD	334.0
20400800	FURNISHED EXCAVATION	CU YD	200.0
20900110	POROUS GRANULAR BACKFILL	CU YD	164.0
* 25000200	SEEDING, CLASS 2	ACRE	1.2
* 25000350	SEEDING, CLASS 7	ACRE	1.2
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	108.0
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	108.0
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	108.0
* 25100115	MULCH, METHOD 2	ACRE	1.2
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	120.0
28000300	TEMPORARY DITCH CHECKS	EACH	9.0
28000400	PERIMETER EROSION BARRIER	FOOT	1,514.0
28000500	INLET AND PIPE PROTECTION	EACH	3.0
28100107	STONE RIPRAP, CLASS A4	SQ YD	312.0
28200200	FILTER FABRIC	SQ YD	312.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	12,163.0
40600300	AGGREGATE (PRIME COAT)	TON	244.0
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	5,020.0

* SPECIALTY ITEMS

(CONT'D NEXT SHEET)

SHEET 1 OF 4

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: N/A
DATE: 05/02/2006

DRAWN BY: CADD
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	5

SUMMARY OF QUANTITIES

LOCATION OF WORK: STA. 1681+95.00
TO
STA. 2081+75.87
EDGAR COUNTY
TOTAL

CONSTRUCTION TYPE CODE: QUANTITY
100% STATE

CODE NO	ITEM	UNIT	1000
40600990	TEMPORARY RAMP	SQ YD	175.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	10,040.0
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	121,922.0
X4420452	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	135.0
X4420454	CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	105.0
X4420456	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	60.0
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	135.0
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	105.0
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	307.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1,960.0
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	419.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	303.0
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1.0
50200100	STRUCTURE EXCAVATION	CU YD	318.0
51500100	NAME PLATES	EACH	2.0
54001001	BOX CULVERT END SECTION, CULVERT NO.1	EACH	2.0
54001002	BOX CULVERT END SECTION, CULVERT NO.2	EACH	2.0

* SPECIALTY ITEMS

(CONT'D NEXT SHEET)

SHEET 2 OF 4

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: N/A
DATE: 05/02/2006

DRAWN BY: CADD
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	6

SUMMARY OF QUANTITIES

LOCATION OF WORK: STA. 1681+95.00
TO
STA. 2081+75.87
EDGAR COUNTY
TOTAL

CONSTRUCTION TYPE CODE: QUANTITY
100% STATE

CODE NO	ITEM	UNIT	1000
54001003	BOX CULVERT END SECTION, CULVERT NO.3	EACH	2.0
54010603	PRECAST CONCRETE BOX CULVERT 6' X 3'	FOOT	56.0
54020402	PRECAST CONCRETE BOX CULVERT 4' X 2'(M273)	FOOT	50.0
54021002	PRECAST CONCRETE BOX CULVERT 10' X 2'(M273)	FOOT	104.0
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	96.0
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2.0
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1,814.0
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8.0
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4.0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT	EACH	10.0
63200310	GUARDRAIL REMOVAL	FOOT	2,125.0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6.0
67100100	MOBILIZATION	L SUM	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1.0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	24,526.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,363.0
* SPECIALTY ITEMS			

(CONT'D NEXT SHEET)

SHEET 3 OF 4

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: N/A
DATE: 05/02/2006

DRAWN BY: CADD
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	7

SUMMARY OF QUANTITIES

LOCATION OF WORK: STA. 1681+95.00
TO
STA. 2081+75.87
EDGAR COUNTY

CONSTRUCTION TYPE CODE: TOTAL
QUANTITY
100% STATE

CODE NO	ITEM	UNIT	1000
* 78000200	THERMOPLASTIC PAVEMENT MARKING- LINE 4"	FOOT	2,240.0
* 78000600	THERMOPLASTIC PAVEMENT MARKING- LINE 12"	FOOT	326.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	97,438.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	517.0
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	10.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	517.0
* X0323115	REFLECTOR MARKERS, TYPE A	EACH	36.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	58.0
Z0055300	RUMBLE STRIP	EACH	3.0
Z0070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	6.0
* SPECIALTY ITEMS			

SHEET 4 OF 4

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
 F.A.P. ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

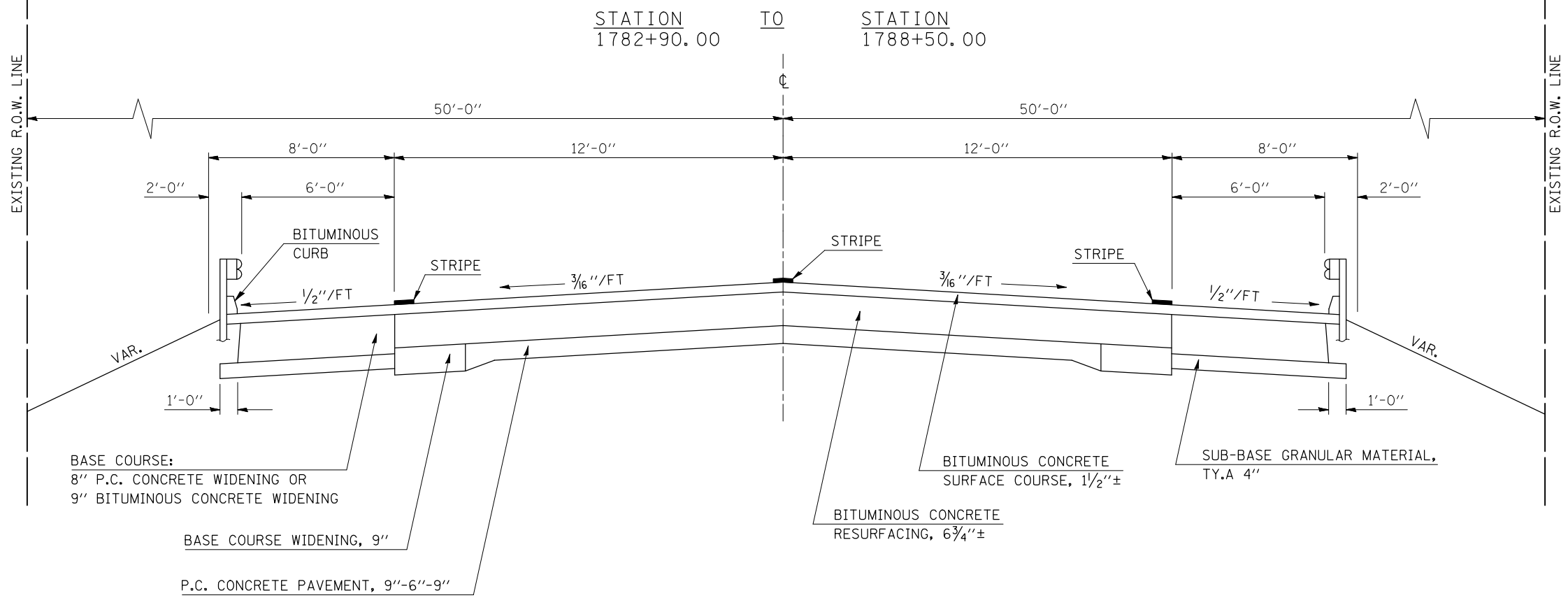
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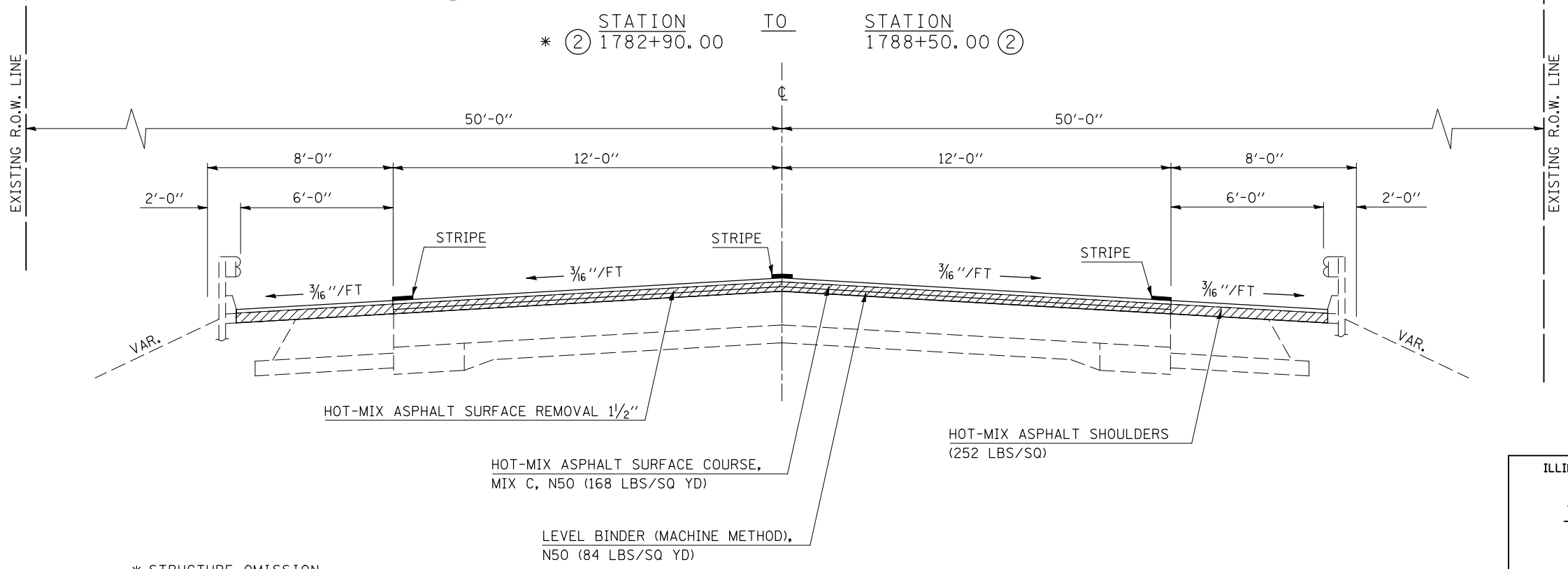
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	10

EXISTING TYPICAL CROSS SECTION



3 PROPOSED TYPICAL CROSS SECTION



* STRUCTURE OMISSION
STA 1785+07.35 TO STA 1786+32.63

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EXISTING & PROPOSED
 TYPICAL CROSS SECTIONS**
 F.A.P. ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

SCALE: N/A
 DATE: 05/02/2006

DRAWN BY: CADD
 CHECKED BY:

PLOT DATE = 4/6/2009
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 USER NAME = sherejlm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	14

SCHEDULES OF QUANTITIES

EARTHWORK SCHEDULE

	STATION	TO	STATION	20200100 EARTH EXCAVATION (CU YD)	ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	20400800 FURNISHED EXCAVATION (CU YD)	
CULVERT NO. 1								
	LT	1700+00	LT	1703+00	52.0	39.0	19.0	-20.0
	RT	1700+00	RT	1703+00	122.0	91.5	4.0	-87.5
SN 023-0010								
TBT, T1(SPL)	RT	1782+21.35	RT	1782+82.35	0.0	0.0	0.0	7.3
TBT, T1(SPL)	LT	1782+96.35	LT	1783+57.35	0.0	0.0	0.0	7.3
TBT, T1(SPL)	RT	1787+82.65	RT	1788+43.65	0.0	0.0	0.0	7.3
CULVERT NO. 2								
	LT	1817+00	LT	1820+00	20.0	15.0	149.0	134.0
	RT	1817+00	RT	1820+00	34.0	25.5	162.0	136.5
CULVERT NO. 3								
	RT	1832+83.45	RT	1835+00	50.0	37.5	25.0	-12.5
	LT	1832+83.45	LT	1835+00	56.0	42.0	18.0	-24.0
SN 023-0025								
TBT, T1(SPL)	RT	1942+59.54	RT	1843+20.54	0.0	0.0	0.0	7.3
TBT, T1(SPL)	LT	1941+48.04	LT	1942+09.04	0.0	0.0	0.0	7.3
TBT, T1(SPL)	RT	1948+46.96	RT	1949+07.96	0.0	0.0	0.0	7.3
TBT, T1(SPL)	LT	1948+71.96	LT	1949+32.96	0.0	0.0	0.0	7.3
SN 023-0030								
TBT, T1(SPL)	RT	2024+69.35	RT	2025+30.35	0.0	0.0	0.0	7.3
TBT, T1(SPL)	LT	2025+44.35	LT	2026+05.35	0.0	0.0	0.0	7.3
TBT, T1(SPL)	RT	2030+20.65	RT	2030+81.65	0.0	0.0	0.0	7.3
				TOTAL =	334.0	250.5	377.0	199.5
				USE =	334.0	251.0	377.0	200.0

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

SHEET 1 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

F.A.P. ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: N/A
DATE: 05/02/2006

DRAWN BY: CADD
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	17

SCHEDULES OF QUANTITIES

48101200 AGGREGATE SHOULDERS, TYPE B

STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	AVERAGE THICKNESS (INCHES)	48101200 AGG SHLD TYPE B (TONS)
1681+95.00		1687+00.00	505.0	3	1.5	25.3
1687+00.00		1782+90.00	9590.0	3	1.5	479.5
1788+50.00		1792+41.35	391.4	3	1.5	19.6
1792+41.35		1828+50.35	3609.0	3	1.5	180.5
1828+50.35		1943+00.00	11449.7	3	1.5	572.5
1943+00.00		1944+65.00	165.0	3	1.5	8.3
1945+91.80		1947+53.00	161.2	3	1.5	8.1
1947+53.00		2025+30.00	7777.0	3	1.5	388.9
2025+30.00		2027+66.58	236.6	3	1.5	11.8
2028+59.42		2031+10.00	250.6	3	1.5	12.5
2031+10.00		2081+75.87	5065.9	3	1.5	253.3
TOTAL =						1960.1
USE =						1960.0

48101500 AGGREGATE SHOULDERS, TYPE B, 6"

STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
CULVERT NO. 1					
RT	1700+41.00	1702+41.00	200.0	3	66.7
LT	1700+41.00	1702+41.00	200.0	3	66.7
CULVERT NO. 2					
RT	1817+70.94	1819+71.07	200.1	3	66.7
LT	1817+43.42	1819+71.07	227.6	3	75.9
CULVERT NO. 3					
RT	1832+83.45	1835+00.00	216.5	3	72.2
LT	1832+87.12	1835+00.00	212.9	3	71.0
TOTAL =					419.1
USE =					419.0

SCHEDULE OF DRAINAGE STRUCTURES

	STATION	20900110 POROUS GRAN BACKFILL (CU YD)	50100300 REM EXIST STRUCT NUMBER 1 (EACH)	50100500 REM EXIST STRUCT NUMBER 3 (EACH)	50200100 STRUCTURE EXCAVATION (CU YD)	51500100 NAME PLATES (EACH)	54001001 BOX CUL END SECT CULV. NO. 1 (EACH)	54001002 BOX CUL END SECT CULV. NO. 2 (EACH)	54001003 BOX CUL END SECT CULV. NO. 3 (EACH)	54010603 PCBC 6X3 (M259) (FOOT)	54020402 PCBC 4X2 (M273) (FOOT)	54021002 PCBC 10X2 (M273) (FOOT)	59300100 CONTR LOW STR. MATL. (CU YD)
CULVERT NO. 1	1701+41.00	55.0	1.0		157.0	1.0	2.0					52.0	
CULVERT NO. 2	1818+71.00	77.0			119.0	1.0		2.0		56.0			96.0
CULVERT NO. 3	1833+78.50	32.0		1.0	42.0				2.0		50.0		
TOTALS =		164.0	1.0	1.0	318.0	2.0	2.0	2.0	2.0	56.0	50.0	52.0	96.0

SHEET 4 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

F.A.P. ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: N/A
DATE: 05/02/2006

DRAWN BY: CADD
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	19

SCHEDULES OF QUANTITIES

***78001110 PAINT PAVEMENT MARKING - LINE 4" (YELLOW)**

STATION	TO	STATION	FOOT
1686+70		1689+35	(NO PASSING ZONE WB) 265.0
1784+60		1802+20	(NO PASSING ZONE EB) 1760.0
1797+90		1810+50	(NO PASSING ZONE WB) 1260.0
1929+32		1936+85	(NO PASSING ZONE WB) 753.0
1920+00		1926+60	(NO PASSING ZONE EB) 660.0
TOTAL =			4698.0

* ADDITIONAL QUANTITIES NOT SHOWN IN SCHEDULE

78000600 THERMOPLASTIC PAVEMENT MARKING-LINE 12" (WHITE)

STATION	TO	STATION	FOOT
RT 1681+95		RT 1684+30	58.0
LT 1681+95		LT 1684+30	58.0
TOTAL =			116.0

Z0070100 SURVEY MONUMENT COVER ASSEMBLY

STATION	EACH	
RT 1877+51.00	1.0	
RT 1930+32.47	1.0	
CL 1956+70.50	1.0	
LT 2031+46.50	1.0	
LT 2081+75.87	1.0	
**	1.0	
TOTAL =		6.0

** LOCATION OF MARKER TO BE ESTABLISHED BY SURVEYS

78000200 THERMOPLASTIC PAVEMENT MARKING-LINE 4" (WHITE)

STATION	TO	STATION	FOOT
1681+95		1684+30	470.0
TOTAL =			470.0

78000600 THERMOPLASTIC PAVEMENT MARKING-LINE 12" (YELLOW)

STATION	TO	STATION	FOOT
1681+95		1686+35	210.0
TOTAL =			210.0

78000200 THERMOPLASTIC PAVEMENT MARKING-LINE 4" (YELLOW)

STATION	TO	STATION	FOOT
RT 1681+95		RT 1686+35	880.0
LT 1681+95		LT 1686+35	890.0
TOTAL =			1770.0

60300105 FRAME AND GRATES TO BE ADJUSTED

STATION	EACH	
RT 1754+43	1.0	
LT 1755+50	1.0	
TOTAL =		2.0

SHEET 6 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

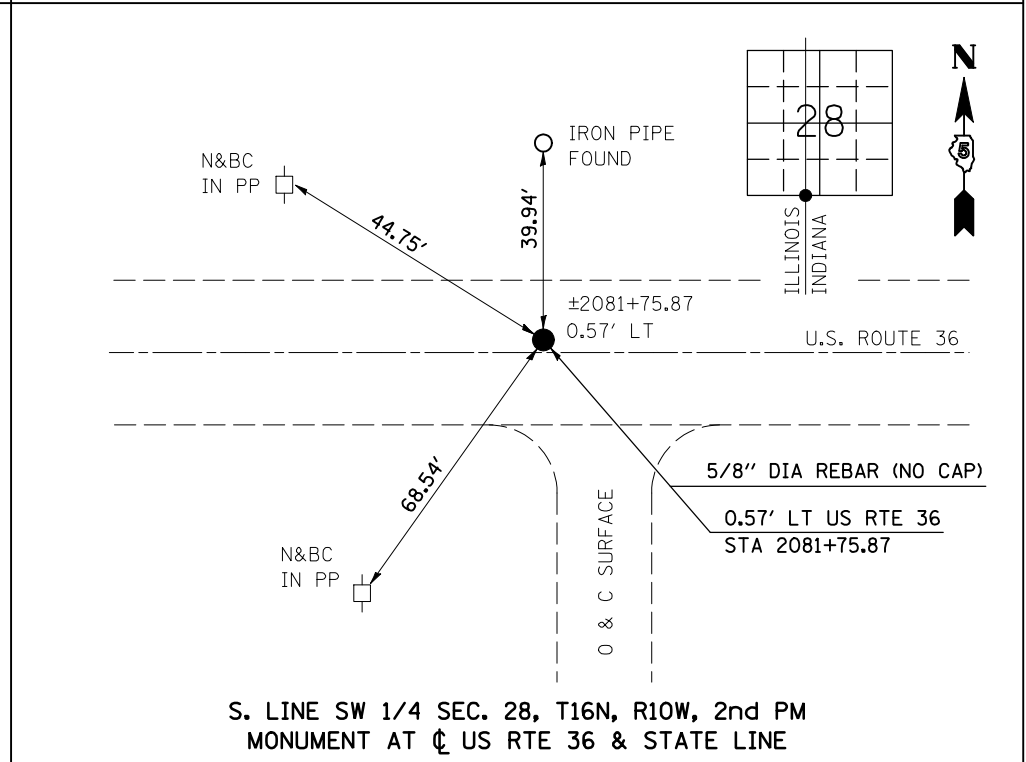
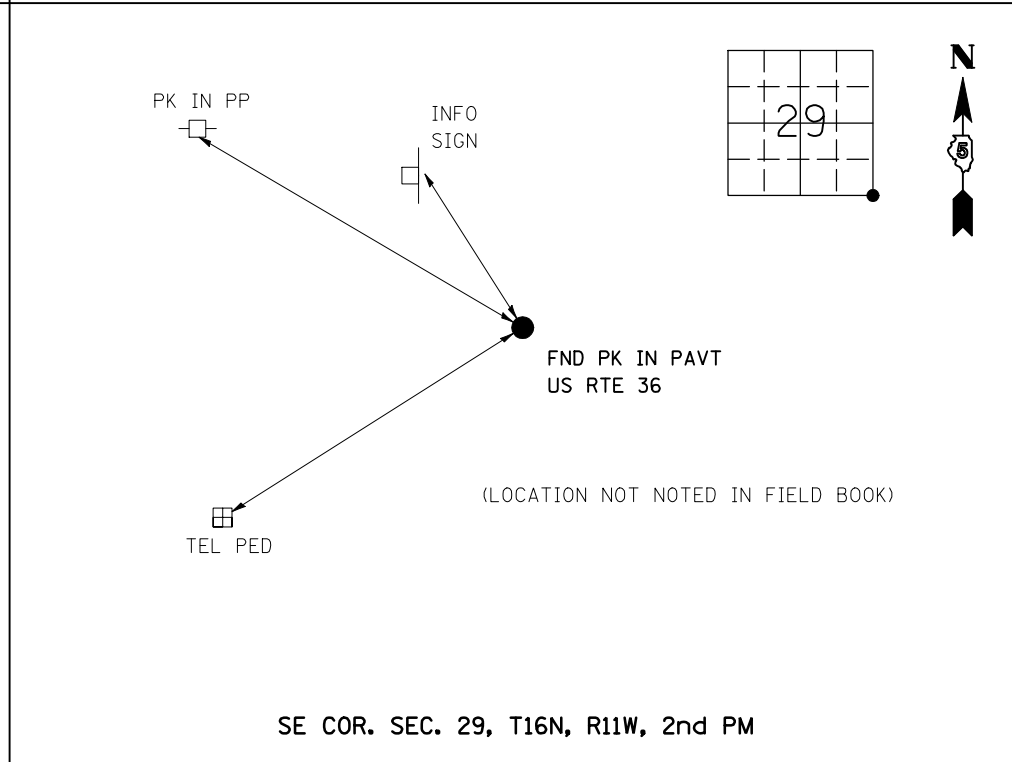
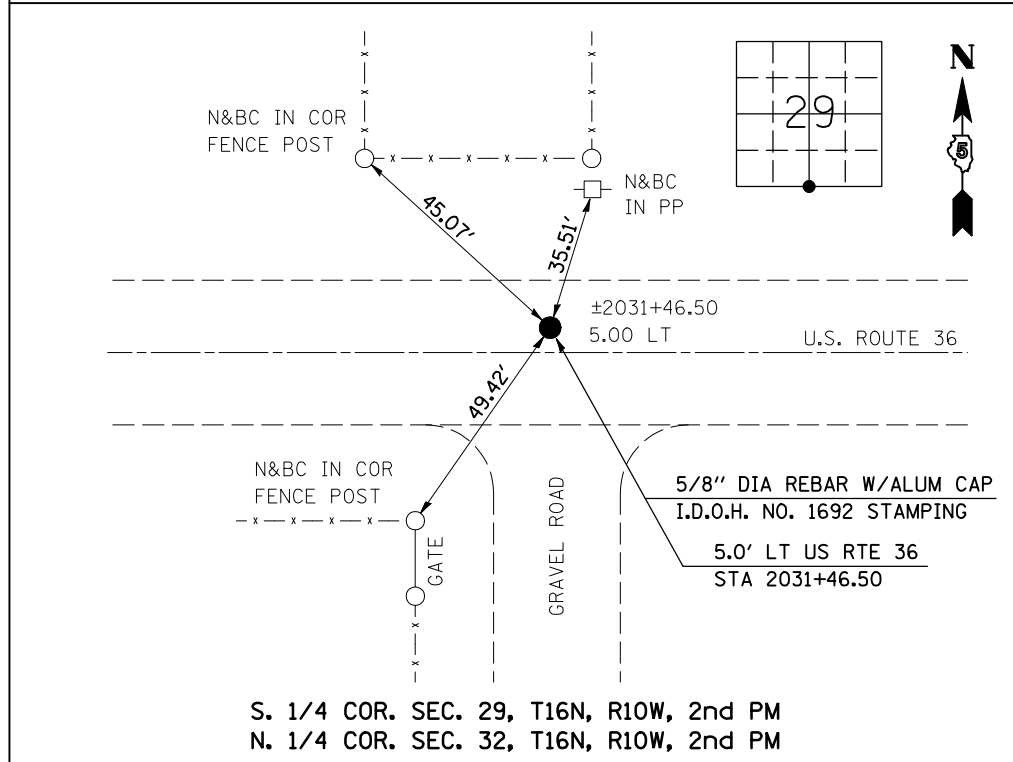
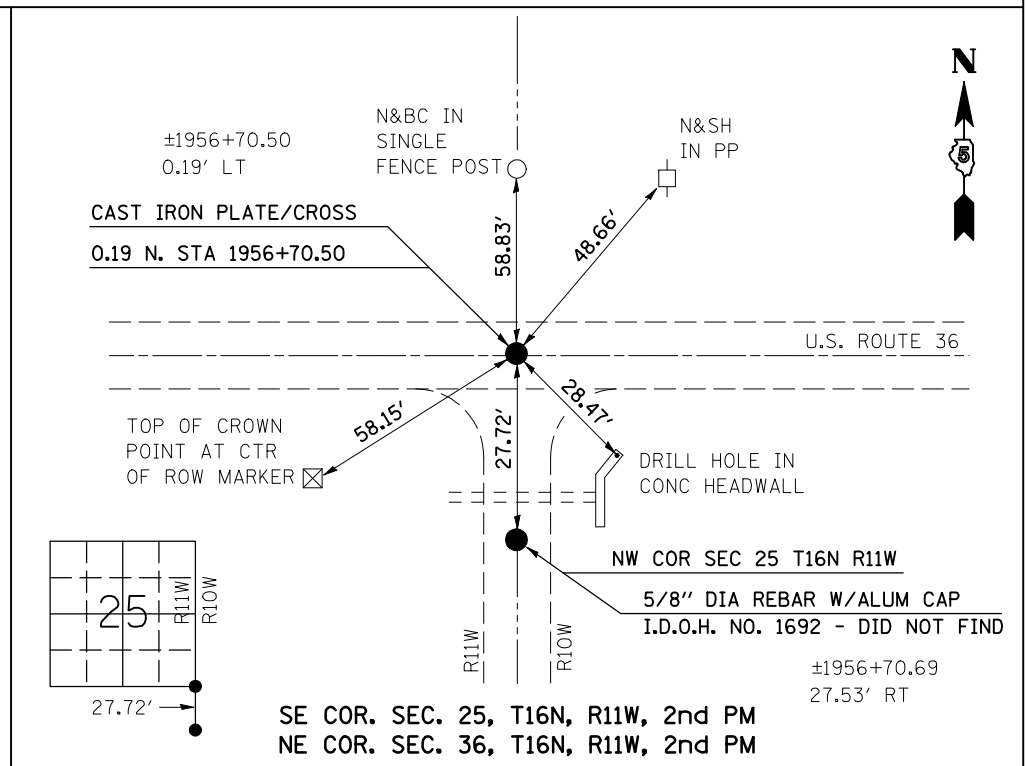
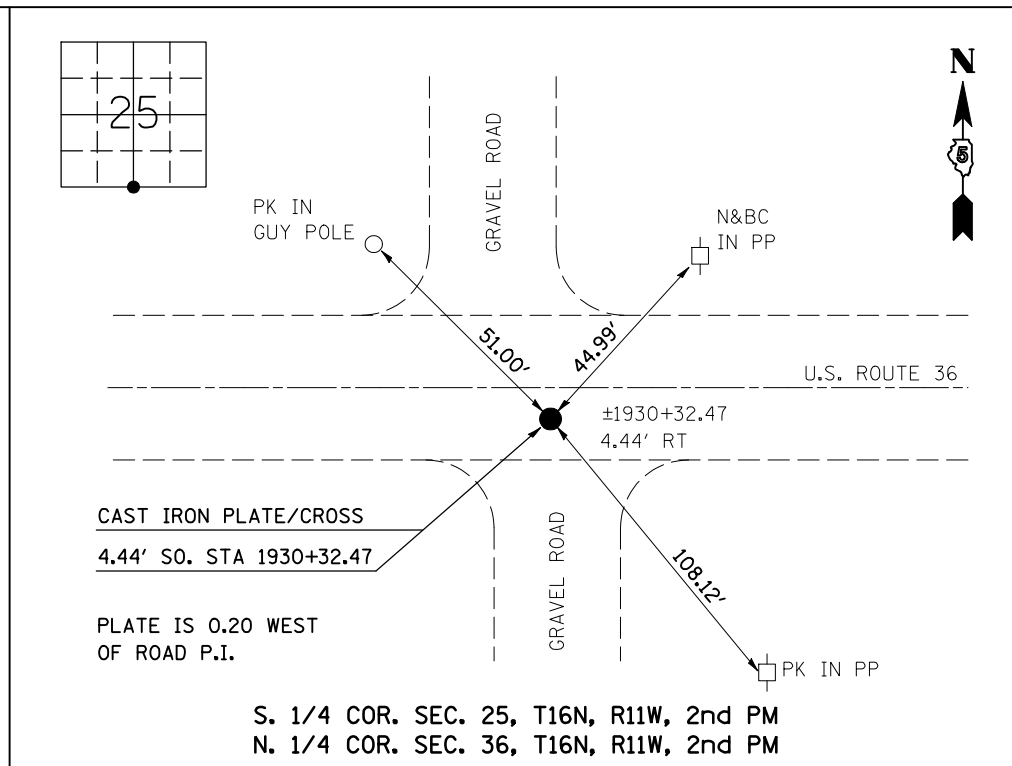
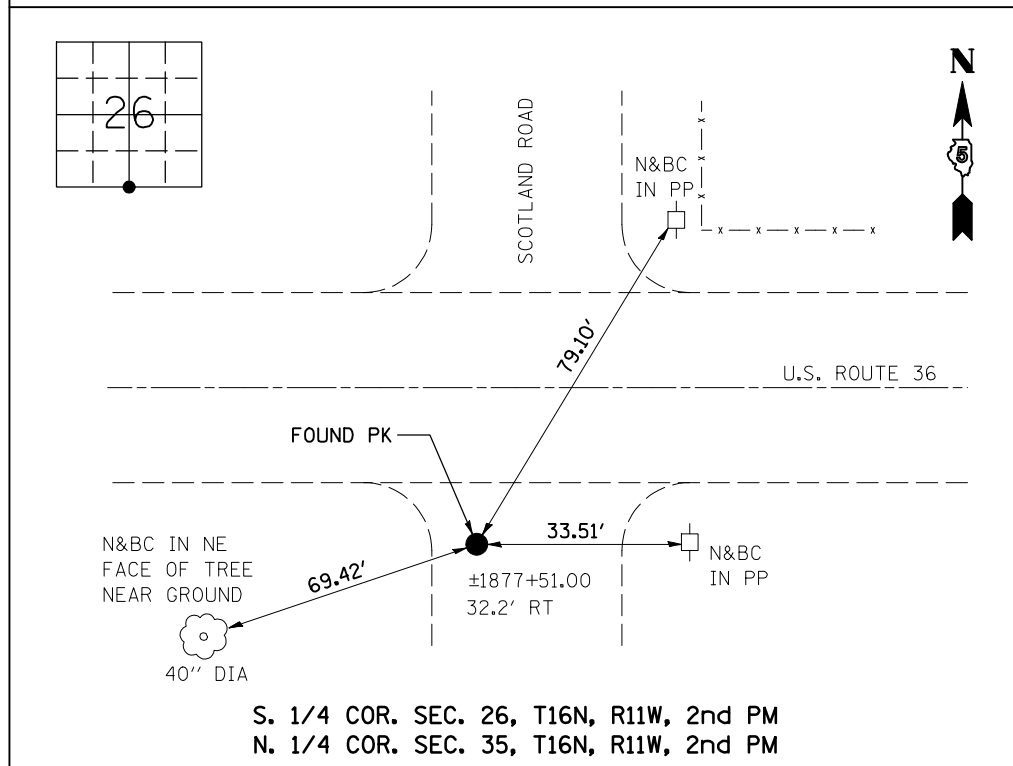
F.A.P. ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: N/A
DATE: 05/02/2006

DRAWN BY: CADD
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MONUMENT RECOVERY TIES



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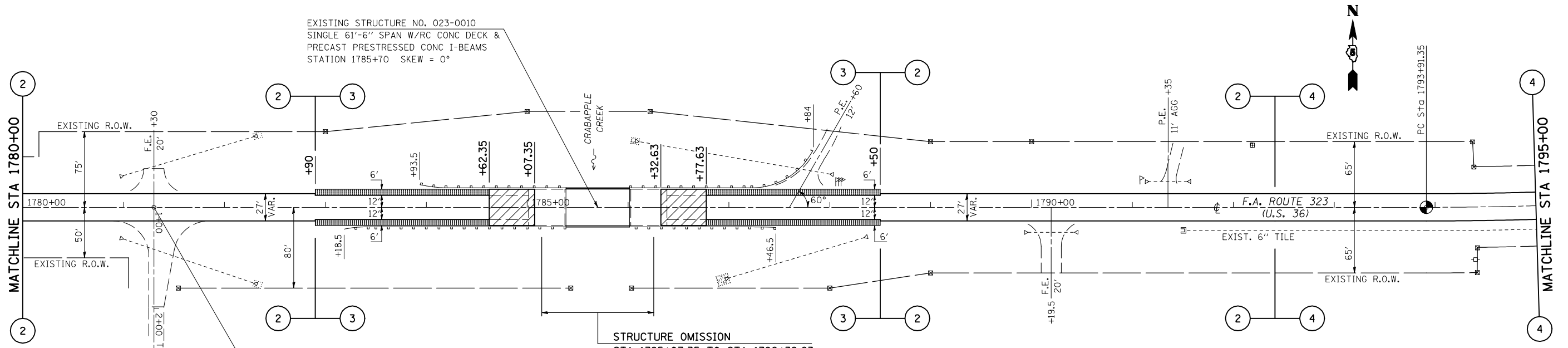
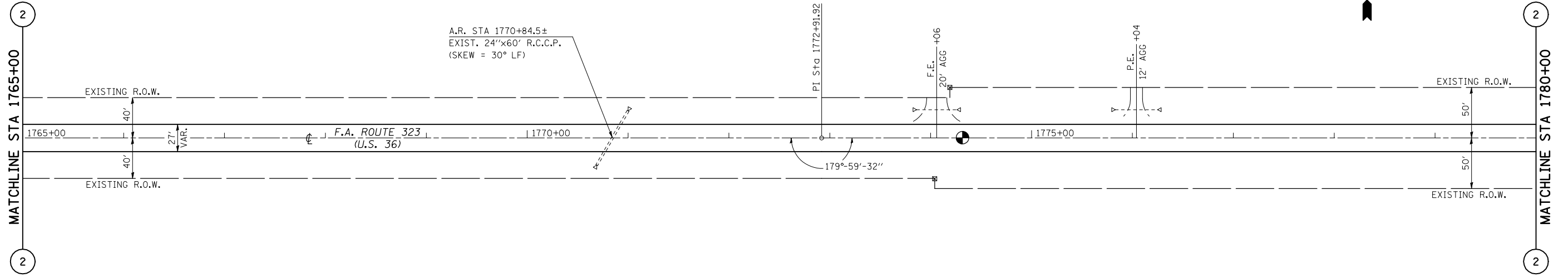
FOR MORE INFORMATION SEE FIELD BOOK NO 4755
AVAILABLE IN DISTRICT 5 SURVEYS OFFICE.

ILLINOIS DEPARTMENT OF TRANSPORTATION
MONUMENT RECOVERY TIES
FAP ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: NO SCALE
DATE: 03/07/2007

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CHECKED BY:

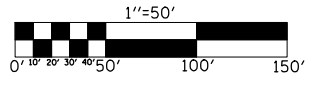
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	24
STA. 1765+00		TO STA.1795+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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 USER NAME = sherer_jm

SEE GUARDRAIL DETAILS FOR
 GUARDRAIL WORK AT SN 023-0010

- MILLING TRANSITION
- HMA SHOULDERS



ILLINOIS DEPARTMENT OF TRANSPORTATION

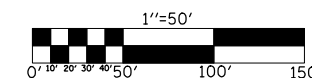
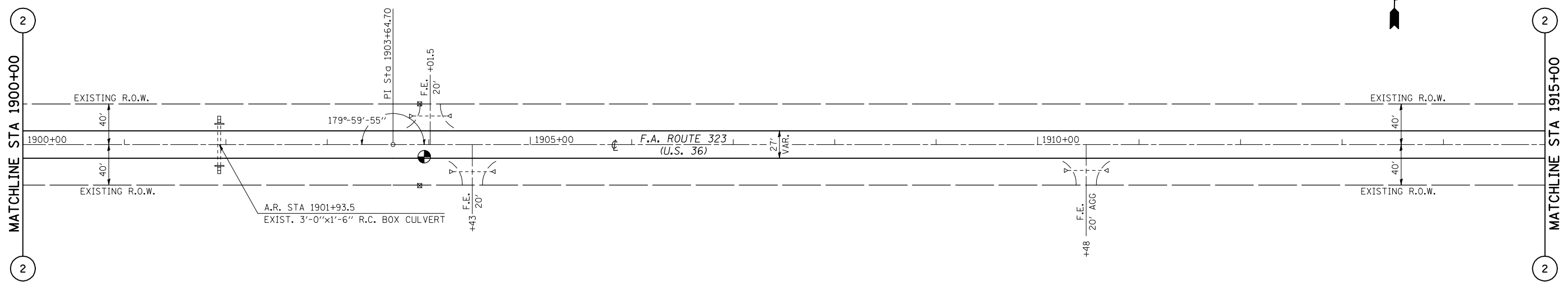
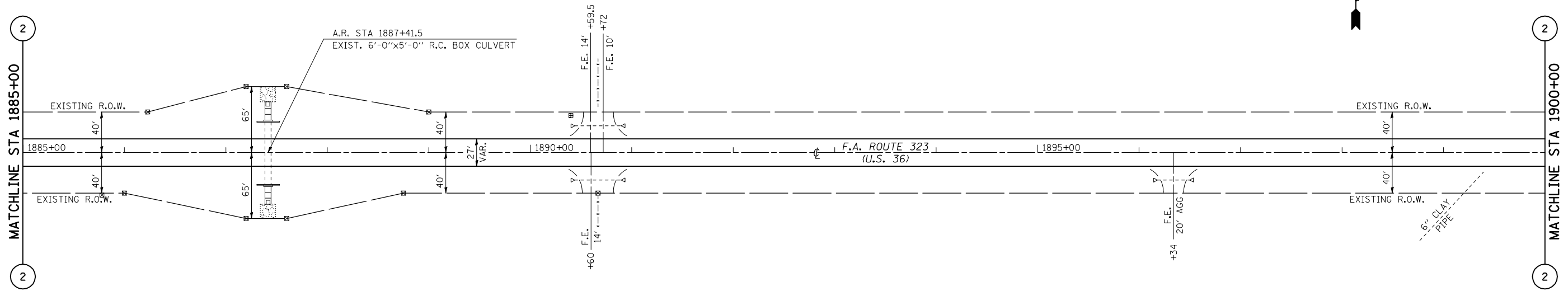
PLAN SHEET

FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

SCALE: 1" = 50'
 DATE: 05/04/2006

DRAWN BY: CADD
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	28
STA. 1885+00		TO STA. 1915+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN SHEET
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

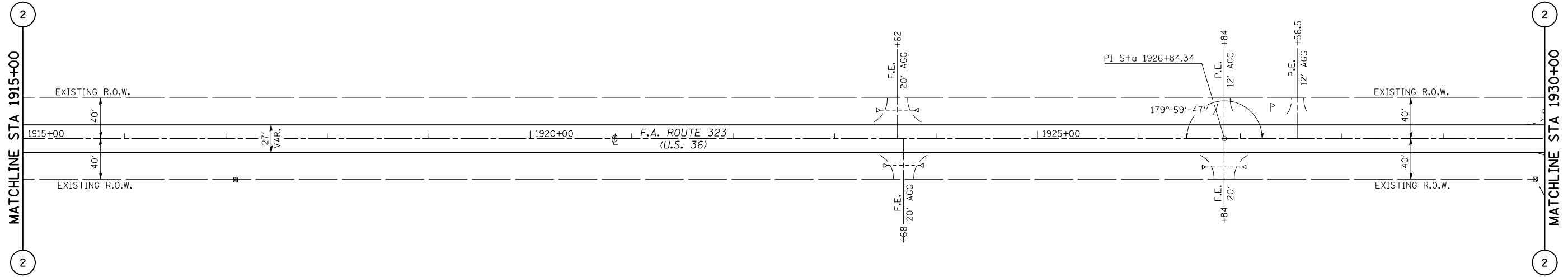
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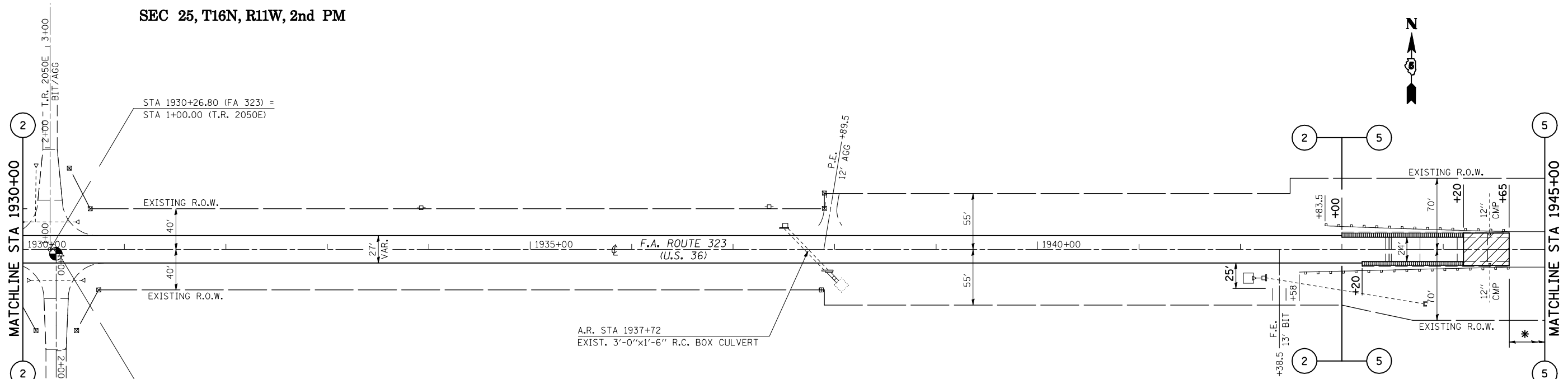
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	29
STA. 1915+00		TO STA. 1945+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC 25, T16N, R11W, 2nd PM



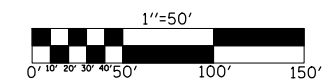
SEC 36, T16N, R11W, 2nd PM

SEC 25, T16N, R11W, 2nd PM



- MILLING TRANSITION
- HMA SHOULDERS

* STRUCTURE OMISSION
STA 1944+65.00 TO STA 1945+91.80



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN SHEET
FAP ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: 1" = 50'
DATE: 05/04/2006

DRAWN BY: CADD
CHECKED BY:

PLOT DATE = 4/4/2009
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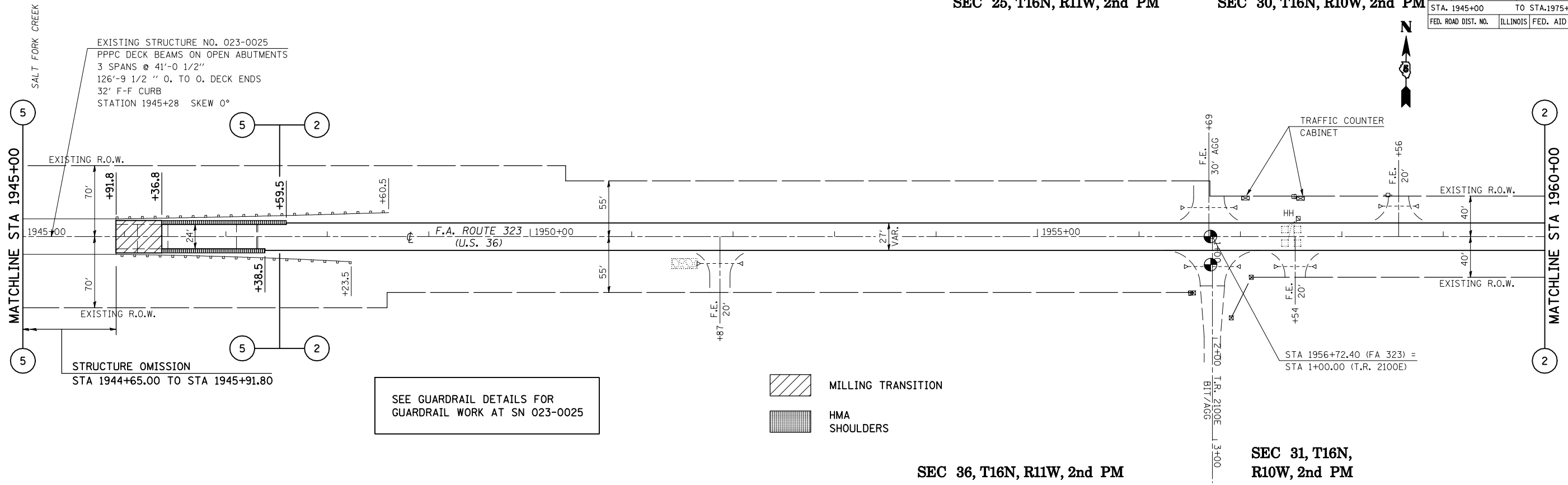
SEC 36, T16N, R11W, 2nd PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	30

STA. 1945+00 TO STA. 1975+00
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

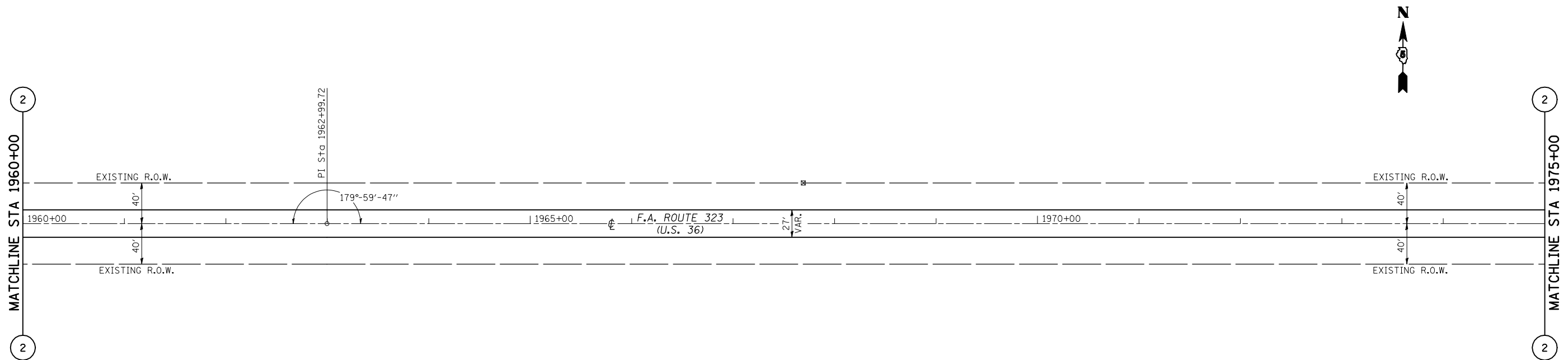
SEC 25, T16N, R11W, 2nd PM

SEC 30, T16N, R10W, 2nd PM

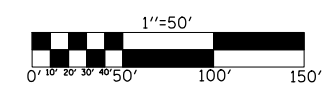


SEC 36, T16N, R11W, 2nd PM

SEC 31, T16N, R10W, 2nd PM



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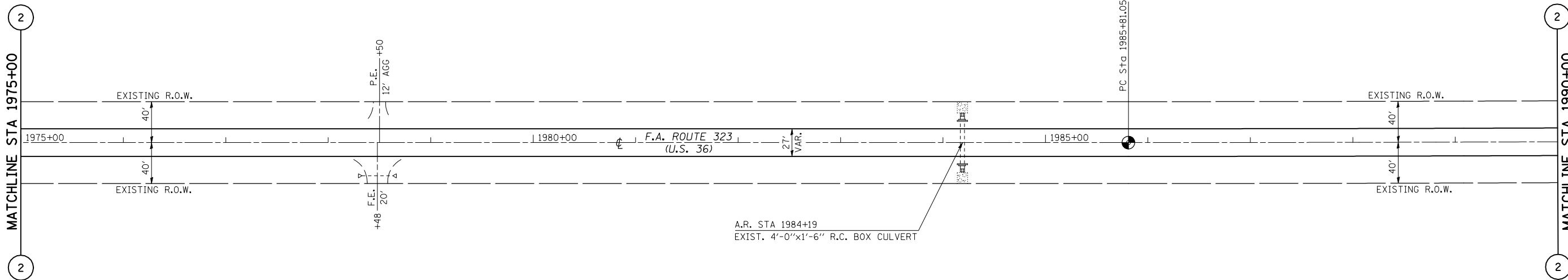


ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN SHEET
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

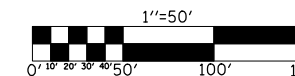
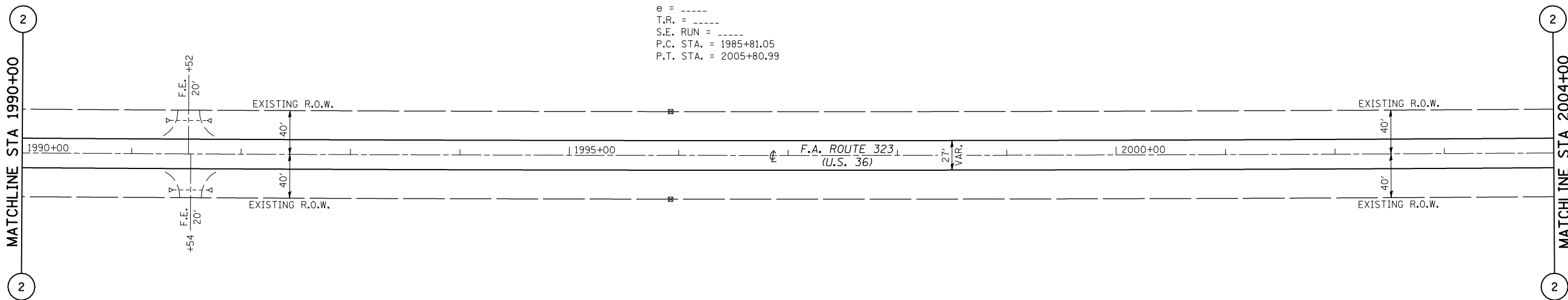
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 DATE: 05/04/2006

DRAWN BY: CADD
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	31
STA. 1975+00		TO STA. 2004+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE DATA
 PI STA. = 1995+81.05
 Δ = 1° 03' 48" (LT)
 D = 0° 03' 11"
 R = 107,763.26'
 T = 1,000.00'
 L = 1,999.94'
 E = 4.64'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 1985+81.05
 P.T. STA. = 2005+80.99

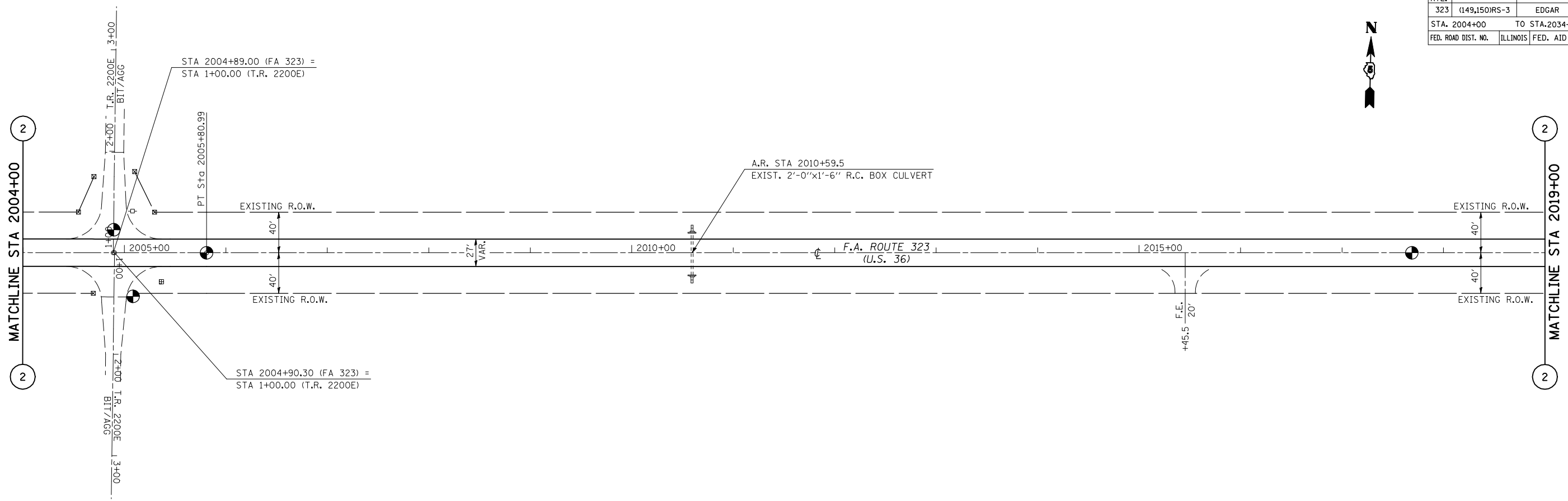


ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN SHEET
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

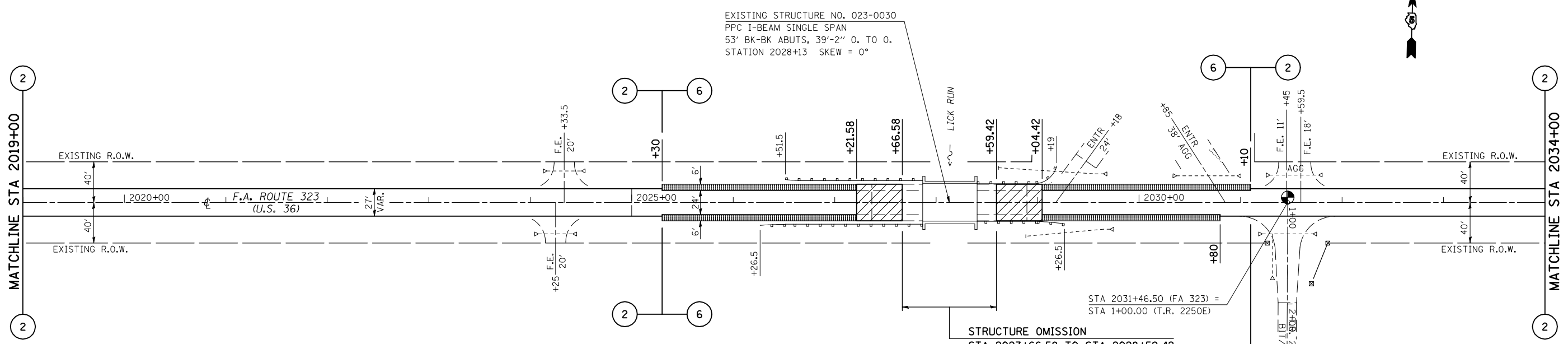
SCALE: 1" = 50'
 DATE: 05/04/2006

DRAWN BY: CADD
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	32
STA. 2004+00 TO STA. 2034+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



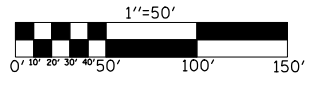
SEC 29, T16N, R10W, 2nd PM



- MILLING TRANSITION
- HMA SHOULDERS

SEE GUARDRAIL DETAILS FOR GUARDRAIL WORK AT SN 023-0030

SEC 32, T16N, R10W, 2nd PM



ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN SHEET

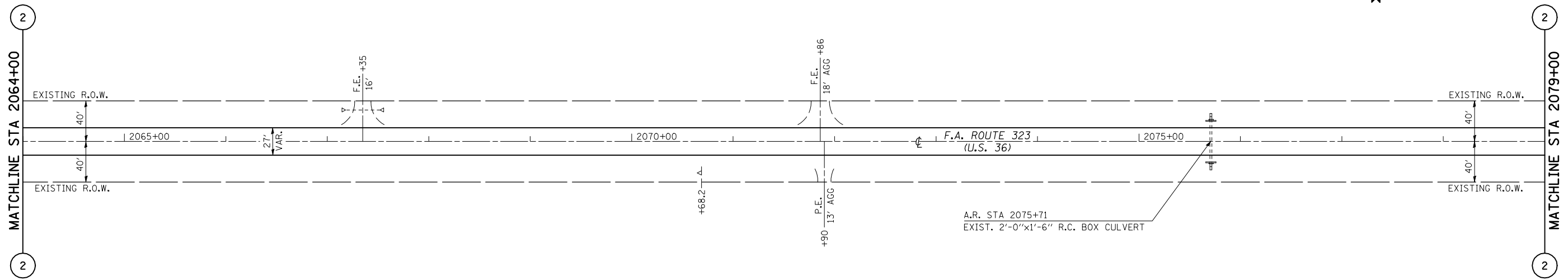
FAP ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: 1" = 50'
DATE: 05/04/2006

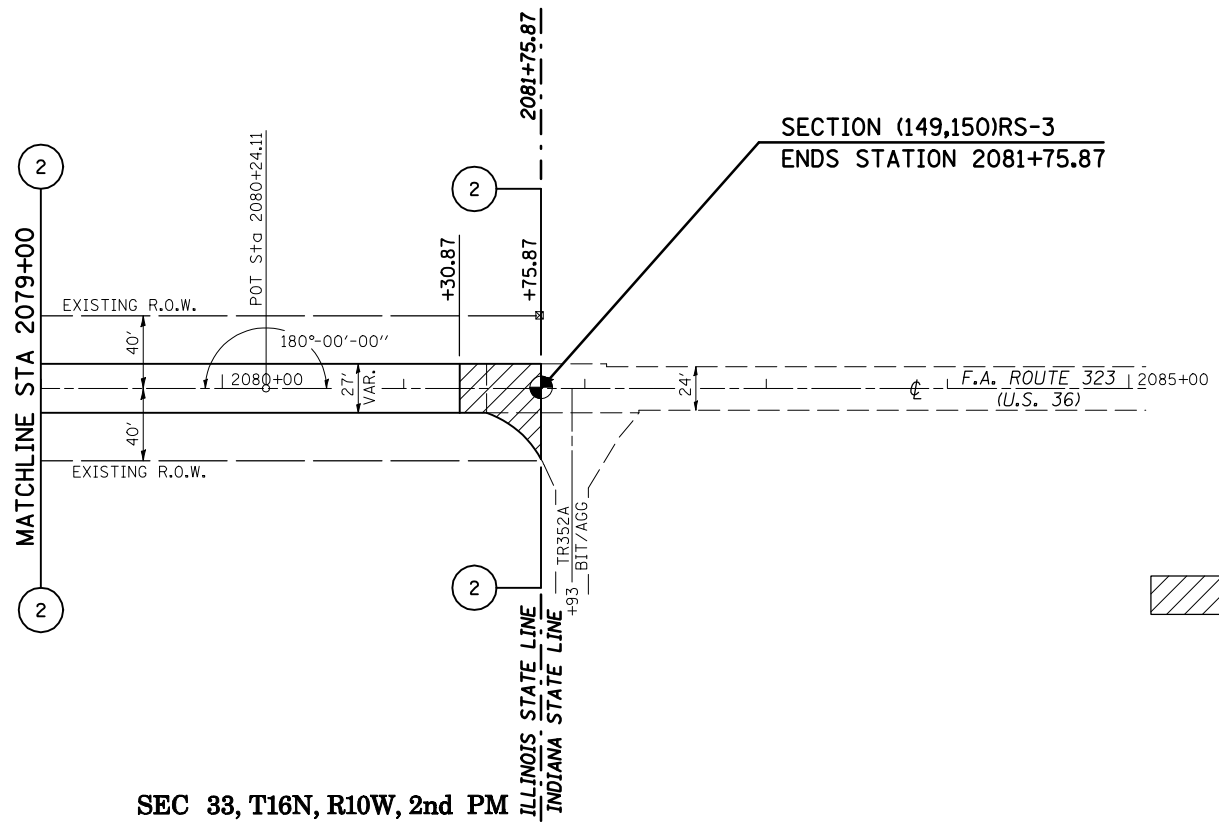
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USER NAME = sherer_jm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	34
STA. 2064+00		TO STA. 2081+75.87		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SEC 28, T16N, R10W, 2nd PM

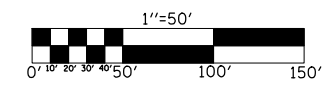


SECTION (149,150)RS-3
ENDS STATION 2081+75.87

MILLING TRANSITION



SEC 33, T16N, R10W, 2nd PM



14 OF 14

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN SHEET
FAP ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: 1" = 50'
DATE: 05/04/2006

DRAWN BY: CADD
CHECKED BY:

PLOT DATE = 4/4/2009
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	35
STA. 1699+00		TO STA. 1705+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

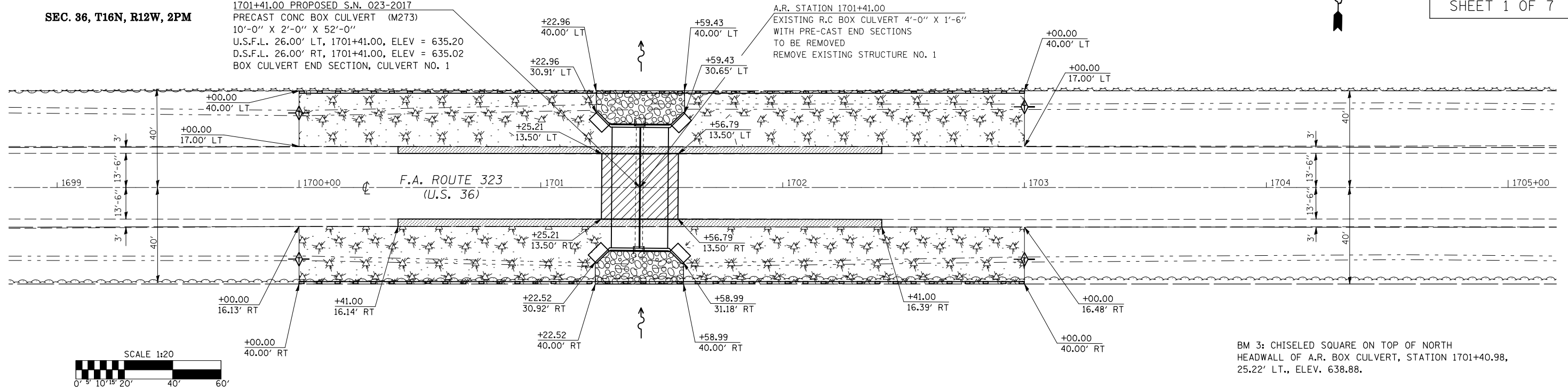
DETAIL OF ACROSS ROAD BOX CULVERT NO. 1
STATION 1701+41.00, S.N. 023-2017

SHEET 1 OF 7

SEC. 36, T16N, R12W, 2PM

1701+41.00 PROPOSED S.N. 023-2017
 PRECAST CONC BOX CULVERT (M273)
 10'-0" X 2'-0" X 52'-0"
 U.S.F.L. 26.00' LT, 1701+41.00, ELEV = 635.20
 D.S.F.L. 26.00' RT, 1701+41.00, ELEV = 635.02
 BOX CULVERT END SECTION, CULVERT NO. 1

A.R. STATION 1701+41.00
 EXISTING R.C BOX CULVERT 4'-0" X 1'-6"
 WITH PRE-CAST END SECTIONS
 TO BE REMOVED
 REMOVE EXISTING STRUCTURE NO. 1



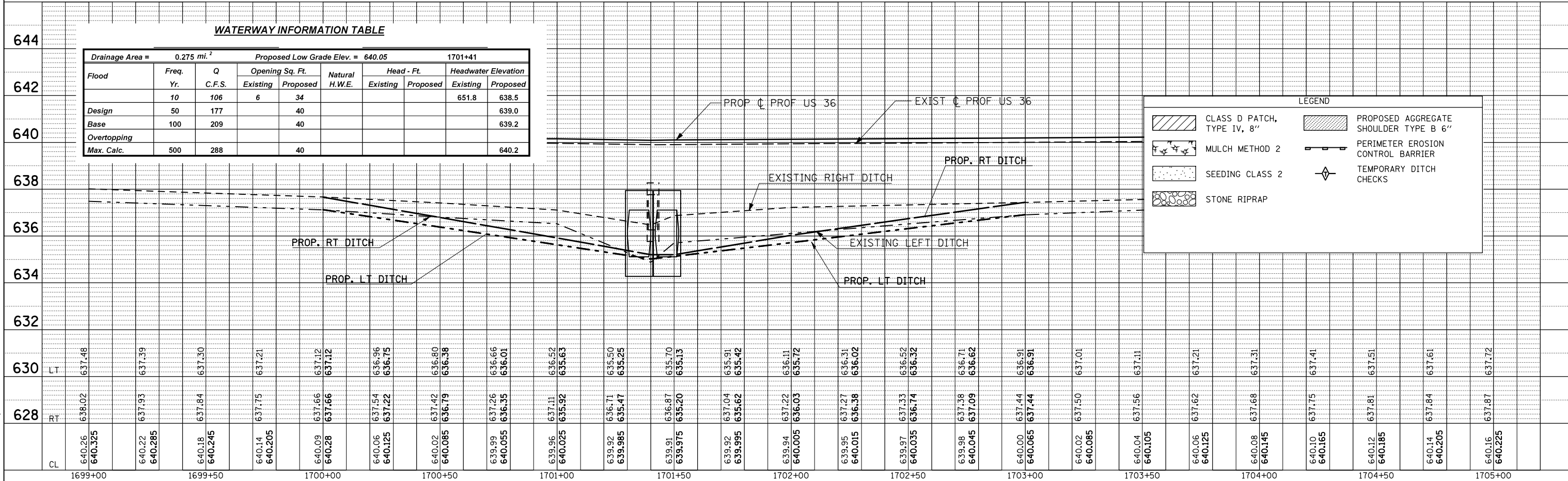
BM 3: CHISELED SQUARE ON TOP OF NORTH HEADWALL OF A.R. BOX CULVERT, STATION 1701+40.98, 25.22' LT., ELEV. 638.88.

44201747 CLASS D PATCHES, TYPE IV, 8" = 95.0 SQ YD

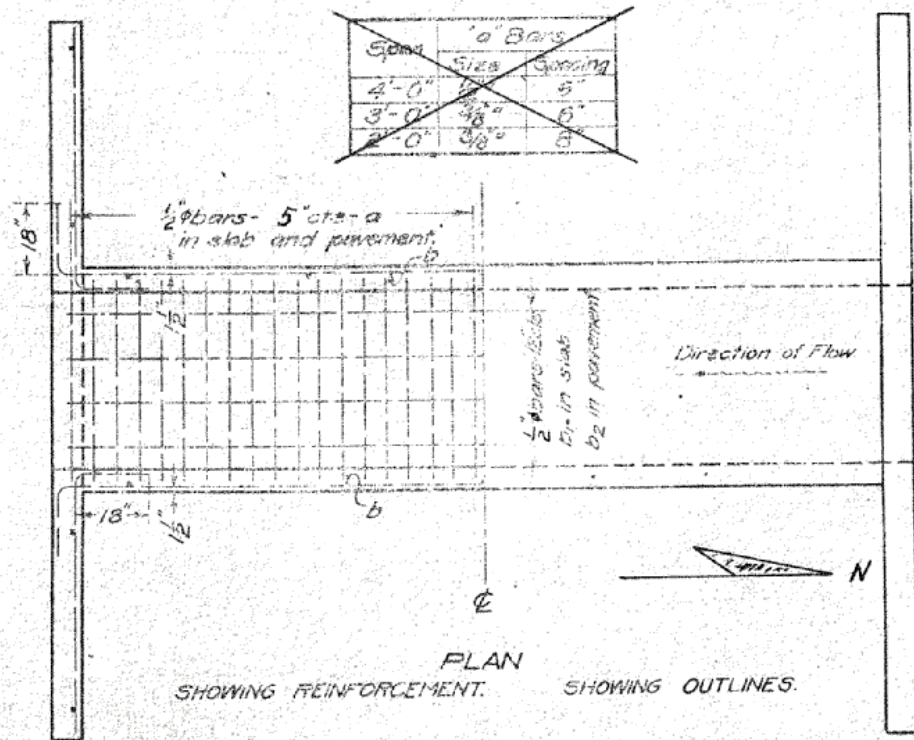
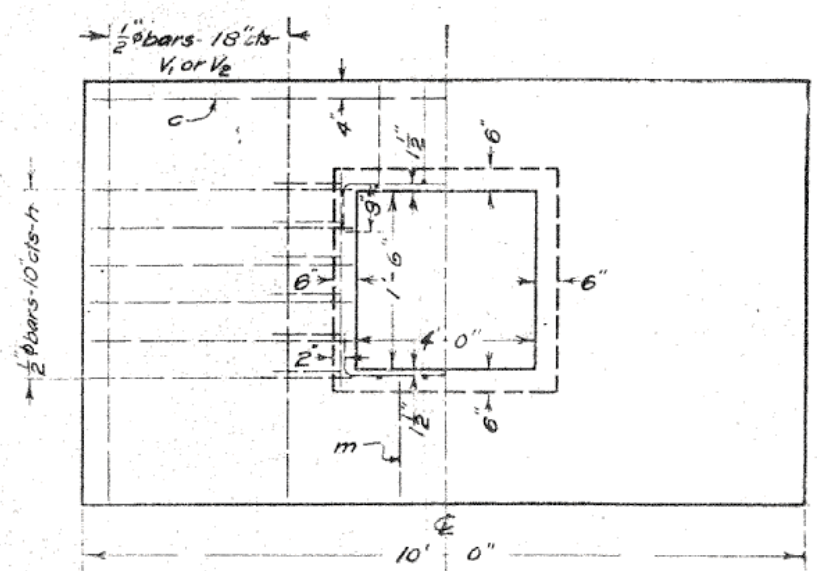
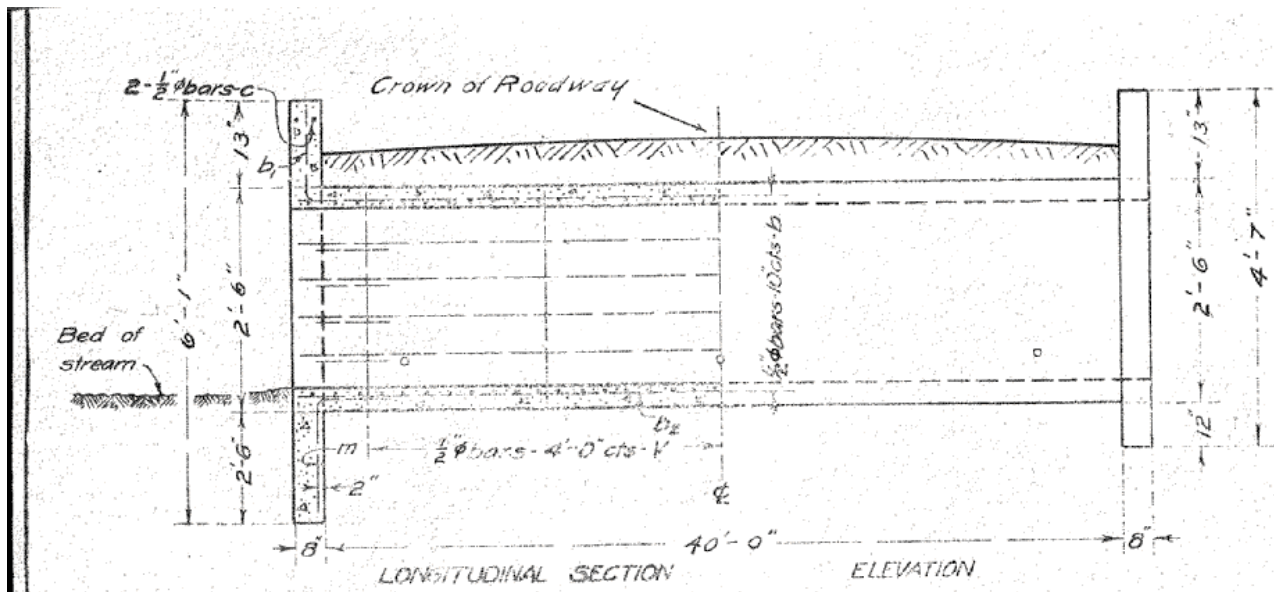
WATERWAY INFORMATION TABLE

Drainage Area = 0.275 mi. ²		Proposed Low Grade Elev. = 640.05		1701+41					
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Existing	Proposed	Natural H.W.E.	Head - Ft. Existing	Proposed	Headwater Elevation Existing	Proposed
Design	50	177	6	34				651.8	638.5
Base	100	209		40					639.0
Overtopping				40					639.2
Max. Calc.	500	288		40					640.2

DATE: 4/5/2009
 FILE NAME: c:\p\m\w\p\1001\SHERRILL\m\7384\70113\culvert\sheet1.dwg
 PLOT SCALE: 1/4" = 1'-0"
 USER NAME: sherrill



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	36
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Note:
 Exit over box should be limited to 4'-0"
 Maximum Clearance = 4'-0"
 Use "m" bars in downstream headwall only.

Station	Crown Elev.	Flow Line Elev.
1635+00	100.79	98.21
1701+00	90.51	87.93

BILL OF MATERIAL

Bars	No.	Size	Length
V	22	1/2"	2'-3"
V1	4	1/2"	5'-9"
V2	4	1/2"	4'-3"
h	12	1/2"	4'-0"
a	198	1/2"	6'-3"
b	12	1/2"	23'-0"
b1	4	1/2"	22'-0"
b2	4	1/2"	21'-6"
c	4	1/2"	9'-6"
m	2	1/2"	5'-0"
Steel - Lbs.		1250	
Concrete - Cu. Yds.		12.0	

BUILD TOPS OF HEAD-WALLS PARALLEL TO GRADE LINE.
 MINIMUM HEIGHT OF HEAD WALLS TO BE 12 INCHES ABOVE SHOULDER ELEVATION.

SPECIAL CULVERT DESIGN
 S.B.I. ROUTE 121 CONSTR. SEC. 149
 EDGAR COUNTY
 STA. 1635+00

STANDARD	COMPUTED	Walter B. Jordan
	CHECKED	W. B. Jordan
	DRAWN	W. B. Jordan
	CHECKED	W. B. Jordan

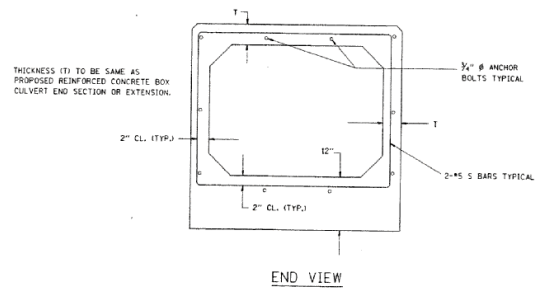
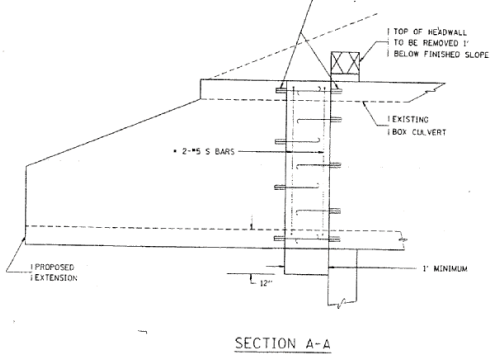
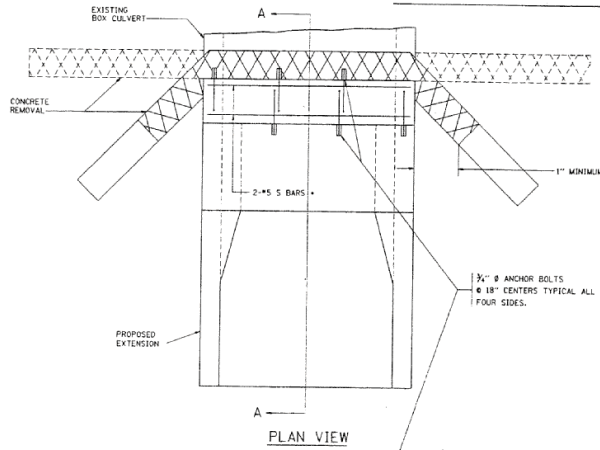
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING STRUCTURE INFORMATION
 STATION 1701+41.00
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY
 SCALE: NOT TO SCALE
 DATE: 08/12/2008
 DRAWN BY: JMS
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	37
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAILS OF CONCRETE COLLAR FOR PRECAST BOX CULVERT EXTENSIONS



TABULATION

SPAN X RISE	CL. X CONC. CU. YD. (EST.)
2' x 2'	0.19
3' x 2'	0.24
3' x 3'	0.26
4' x 2'	0.32
4' x 3'	0.35
4' x 4'	0.36
5' x 2'	0.42
5' x 3'	0.46
5' x 4'	0.50
6' x 2'	0.53
6' x 3'	0.58
6' x 4'	0.62

INDICATES CONCRETE HEADWALL REMOVAL

GENERAL NOTES

ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 710.02 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 6 INCHES INTO THE NEW CONCRETE. EXPANSION SHIELDS SHALL PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 4000 POUNDS.

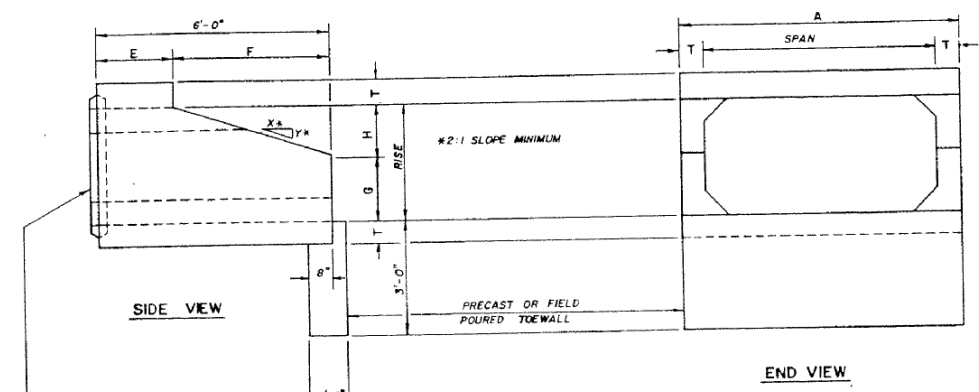
REINFORCEMENT BARS SHALL MEET THE REQUIREMENTS OF ARTICLE 710.03 OF THE STANDARD SPECIFICATIONS.

CLASS X CONCRETE SHALL BE USED THROUGHOUT.

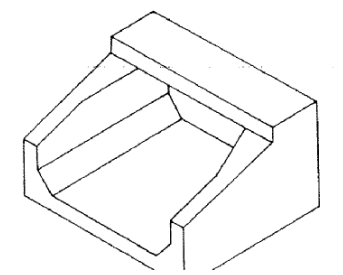
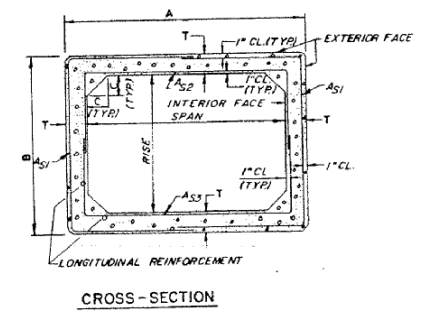
THE PRECAST END SECTION WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PRECAST BOX CULVERT END SECTION OF THE SIZE SPECIFIED WHICH PRICE SHALL INCLUDE THE CONCRETE COLLAR, ANCHOR BOLTS, REINFORCEMENT AND TOEWALL IF ANY.

ANY PRECAST BOX CULVERT BARREL SECTIONS PLACED AS PART OF THE EXTENSION WILL BE IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 603 OF THE SPECIFICATIONS EXCEPT THAT END SECTIONS WILL BE PAID FOR AS STATED ABOVE.

DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION



END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL.)



DIMENSIONS

SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE (X:Y)
2' x 2'	4	2-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' x 2'	4	3-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' x 3'	4	3-8	3-8	4	2-0	4-0	1-8	1-4	3:1
4' x 2'	5	4-10	2-10	5	3-0	3-0	1-0	1-0	3:1
4' x 3'	5	4-10	3-10	5	2-0	4-0	1-8	1-4	3:1
4' x 4'	5	4-10	4-10	5	2-0	4-0	2-0	2-0	2:1
5' x 2'	6	6-0	3-0	6	3-0	3-0	1-0	1-0	3:1
5' x 3'	6	6-0	4-0	6	2-0	4-0	1-8	1-4	3:1
5' x 4'	6	6-0	5-0	6	2-0	4-0	2-0	2-0	2:1
6' x 2'	7	7-2	3-2	7	3-0	3-0	1-0	1-0	3:1
6' x 3'	7	7-2	4-2	7	2-0	4-0	1-8	1-4	3:1
6' x 4'	7	7-2	5-2	7	2-0	4-0	2-0	2-0	2:1

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE INFORMATION
 STATION 1701+41.00
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

SCALE: NOT TO SCALE
 DATE: 08/12/2008

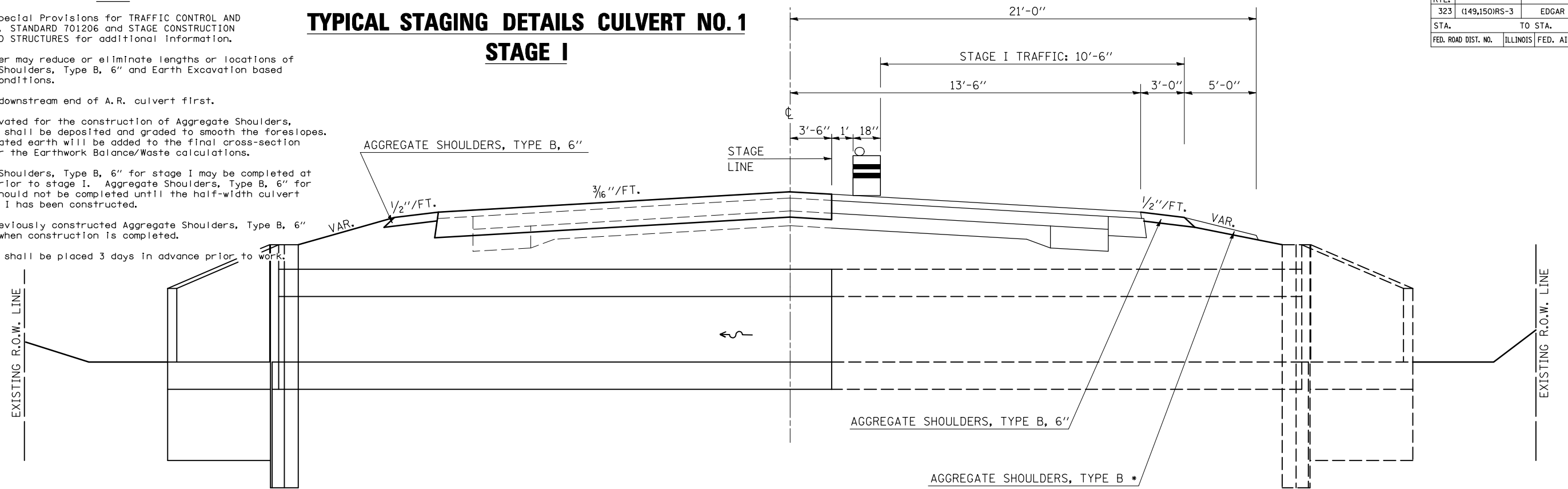
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 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	38
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

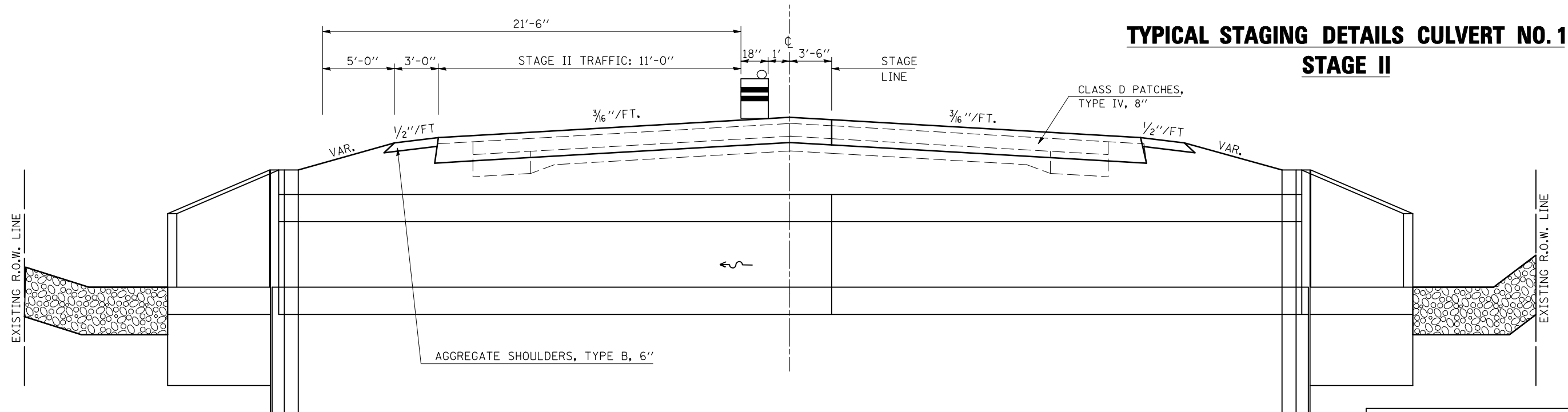
NOTES

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 B, 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 B, 6" 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 B, 6" for stage I may be completed at any time prior to stage I. Aggregate Shoulders, Type B, 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 B, 6" as needed when construction is completed.
7. CMS boards shall be placed 3 days in advance prior to work.

TYPICAL STAGING DETAILS CULVERT NO. 1
STAGE I



TYPICAL STAGING DETAILS CULVERT NO. 1
STAGE II



A. R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	CHANGEABLE MESSAGE SIGNS
STA. 1701+41.00	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

DRAWING NOT TO SCALE

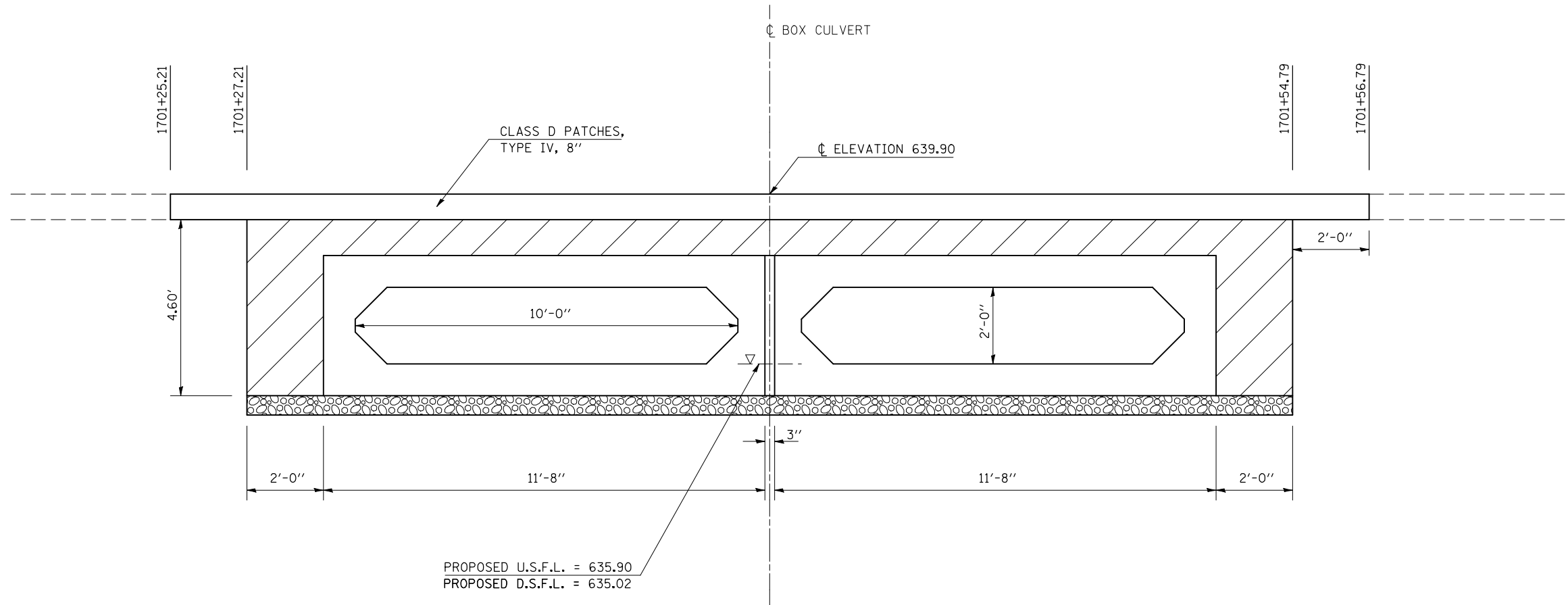
SHEET 4 OF 7

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL & STAGING DETAILS - S.N. 023-2017
FAP ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY
SCALE: NOT TO SCALE
DATE: 08/11/2008
DRAWN BY: JMS
CHECKED BY:

PLOT DATE = 4/5/2009
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USER NAME = sherer_jm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	39
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF POROUS GRANULAR BACKFILL PAY LIMITS CULVERT NO. 1, STATION 1701+41.00 S.N. 023-2017



DRAWING NOT TO SCALE.

LEGEND	
	POROUS GRANULAR BACKFILL
	BOX CULVERT BEDDING (CA-7 OR CA-11)

DETAIL NOTE(S):

- ① Porous Granular Backfill shall extend 2 ft. beyond the aggregate shoulder.
- ② Work shown in detail shall be done according to the applicable portions of article 209 and article 540 of the Standard Specifications.
- ③ The area to be excavated for the proposed box culvert shall be measured and paid for at the contract unit price per cubic yard for STRUCTURE EXCAVATION.
- ④ This work shall be paid for at the contract unit price per cubic yard for POROUS GRANULAR BACKFILL.
- ⑤ SPACE BETWEEN BOXES SHALL BE FILLED ACCORDING TO ARTICLE 540.06 AND SHALL NOT BE PAID FOR SEPERATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS ASSOCIATED WITH BOX CULVERT CONSTRUCTION.

SHEET 5 OF 7

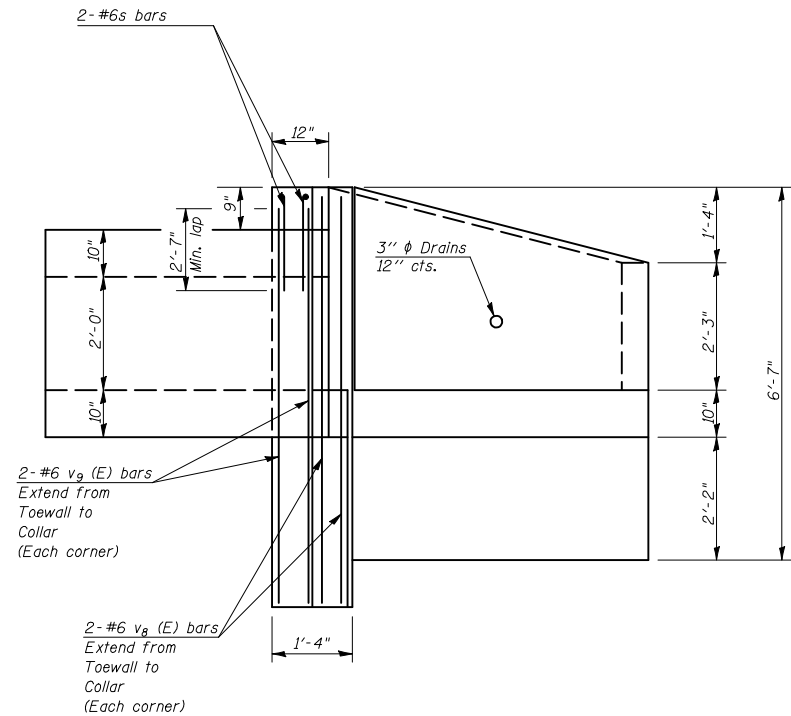
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF POROUS GRANULAR BACKFILL
PAY LIMITS - S.N. 023-2017
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY
 SCALE: NOT TO SCALE DRAWN BY: JMS
 DATE: 08/04/2008 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	41
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

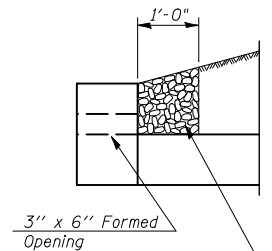
CAST-IN-PLACE BOX CULVERT END SECTION DETAIL

CULVERT NO. 1, PROPOSED S.N. 023-2017

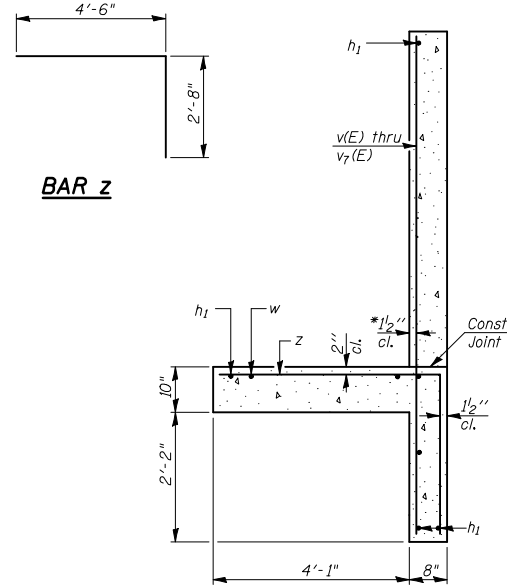
STATION 1701 + 41.00



HALF SIDE ELEVATION



3' x 6' Formed Opening
Coarse aggregate full length on both headwalls
Cost included with Box Culvert End Section

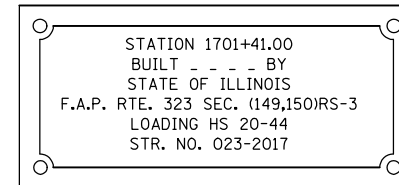


SECTION A-A

*v(E) bars shall not be placed more than 1/2" cl. from back face of wingwall.

- NOTES**
- All bars should be rounded and shall conform to the requirements of Art. 1006.10 of Standard Specs.
 - The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M273.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - All construction joints shall be bonded.
 - Expansion bolts shall be 3/4" phi hooked bolts. Hooked bolts shall extend 6" into concrete collar. The cost of the bolts shall be included in the cost of Box Culvert End Section.
 - 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, 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.
- voids between the Precast Concrete Box Culvert and the Cast-in-place toewall / cutoff wall shall be filled with Non-shrink grout.
- Drawings not to scale.



NAME PLATE

* See Highway Standard 515001-02 for dimensions and placement.

* Name Plate will be paid for at the contract unit price per "EACH" for "NAME PLATES".

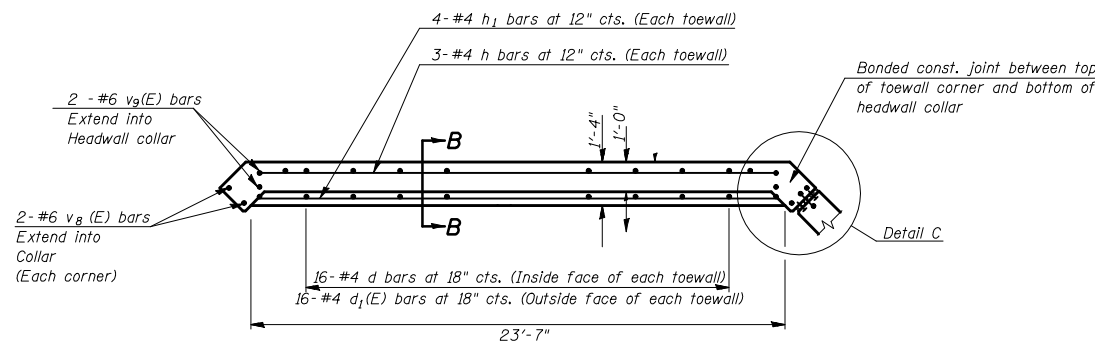
LOADING HS 20-44

BILL OF MATERIAL (ONE END SECTION)

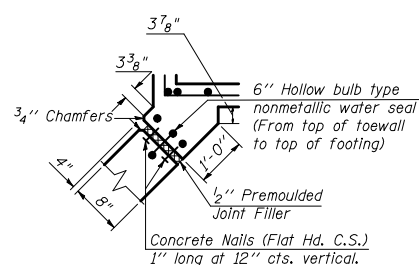
Bar	No.	Size	Length	Shape
d	16	#4	2'-8"	
d1(E)	16	#4	3'-6"	
h	7	#4	23'-11"	
h1	16	#4	7'-0"	
h2	2	#4	7'-1"	
h3	4	#4	9"	
h4	4	#4	1'-2"	
s	4	#6	18'-0"	
v (E)	2	#4	5'-1"	
v1(E)	2	#4	5'-3"	
v2(E)	2	#4	5'-5"	
v3(E)	2	#4	5'-7"	
v4(E)	2	#4	5'-9"	
v5(E)	2	#4	5'-11"	
v6(E)	2	#4	6'-1"	
v7(E)	2	#4	6'-3"	
v8(E)	4	#6	7'-3"	
v9(E)	4	#6	7'-0"	
w	12	#5	7'-0"	
z	18	#5	7'-2"	
Concrete/End Section				
Reinforcement Bars, Epoxy Coated	Cu. Yd.	10.0		
Reinforcement Bars, Epoxy Coated	Pound	141.0		
Reinforcement Bars	Pound	560.0		
Expansion Bolt 3/4" phi	Each	16.0		

TOTAL BILL OF MATERIALS

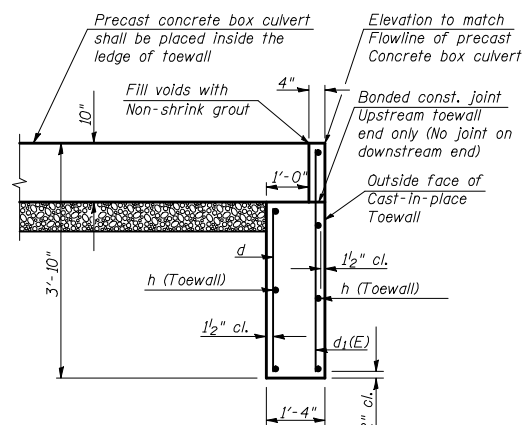
Item	Unit	Qty.
Box Culvert End Section Culvert No. 1	Each	2.0
Name Plate	Each	1.0



TOEWALL DETAIL WITH CORNER DIMENSIONS



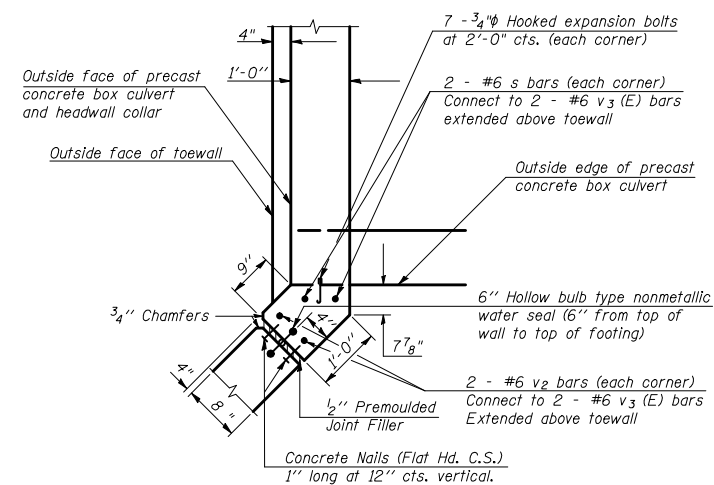
CORNER DETAIL C



SECTION B-B TOEWALL DETAIL ONLY

(SIDE WALL OF PRECAST BOX CULVERT NOT SHOWN)

Porous Granular Material - CA 7 (6")
(Included in pay item for precast box culvert)



CAST-IN-PLACE CORNER DETAIL FOR HEADWALL COLLAR

SHEET 7 OF 7

DRAWING NOT TO SCALE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF BOX CULVERT END SECTION (CAST IN PLACE)
FAP ROUTE 323 (US 36)
SECTION (149,150)RS-3
EDGAR COUNTY

SCALE: NOT TO SCALE DRAWN BY: JMS
DATE: 06/12/2008 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	42
STA. 1815+00		TO STA. 1821+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DETAIL OF ACROSS ROAD BOX CULVERT NO. 2 STATION 1818+71.00, S.N. 023-8063

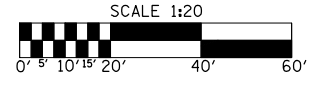
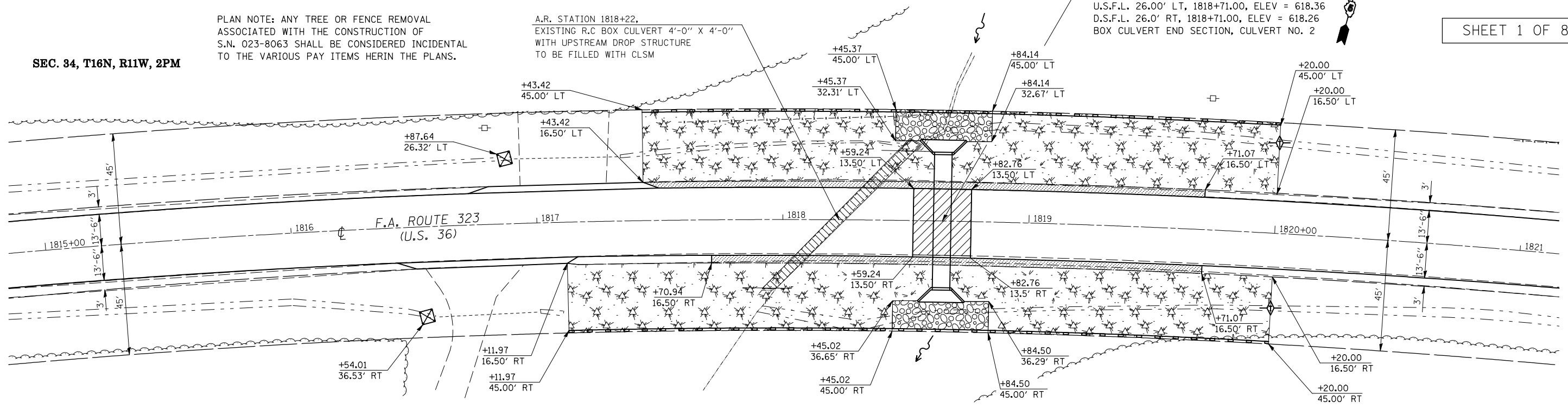
SEC. 34, T16N, R11W, 2PM

PLAN NOTE: ANY TREE OR FENCE REMOVAL ASSOCIATED WITH THE CONSTRUCTION OF S.N. 023-8063 SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS HERIN THE PLANS.

A.R. STATION 1818+22. EXISTING R.C BOX CULVERT 4'-0" X 4'-0" WITH UPSTREAM DROP STRUCTURE TO BE FILLED WITH CLSM

1818+71.00 PROPOSED S.N. 010-8320
PRECAST CONC BOX CULVERT (M259)
6'-0" X 3'-0" X 56'-0"
U.S.F.L. 26.00' LT, 1818+71.00, ELEV = 618.36
D.S.F.L. 26.0' RT, 1818+71.00, ELEV = 618.26
BOX CULVERT END SECTION, CULVERT NO. 2

SHEET 1 OF 8



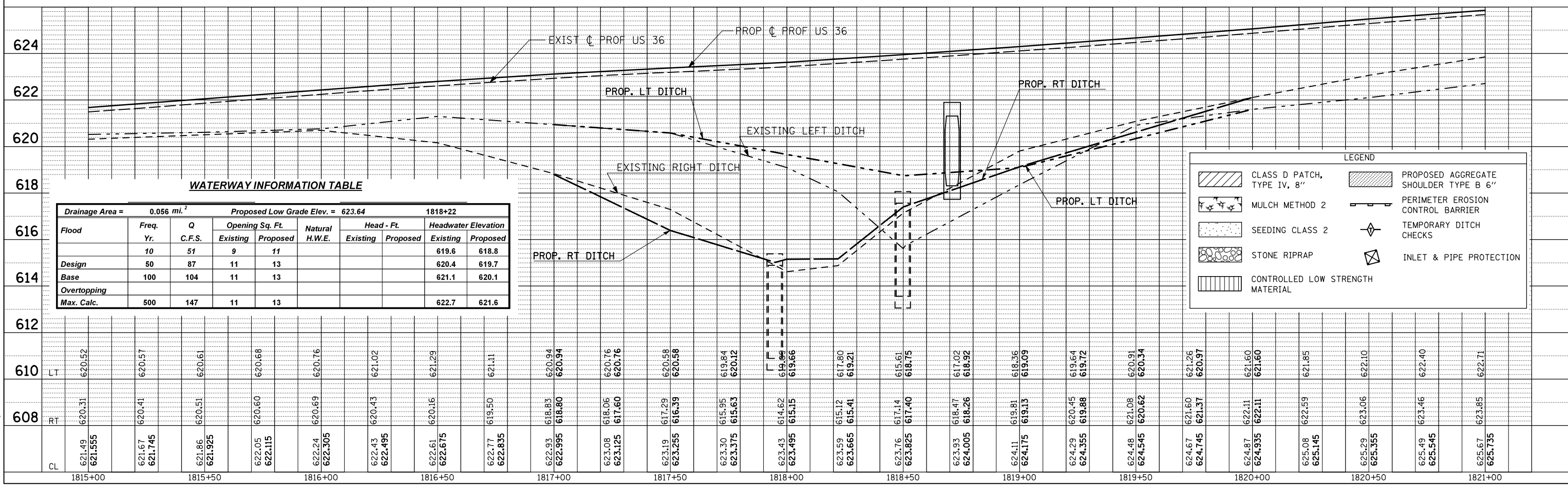
44201747 CLASS D PATCHES, TYPE IV, 8" = 71.0 SQ YD

SEE DETAIL OF CONTROLLED LOW STRENGTH MATERIAL

BM 2: CHISELED SQUARE ON TOP OF CENTER OF SOUTH HEADWALL OF A.R. BOX CULVERT, STATION 1817+17.93, 27.56' RT., ELEV. 616.76

PLAN	DATE
BY	
NO.	
DATE	
BY	
NO.	
DATE	
BY	
NO.	
DATE	
BY	
NO.	
DATE	

PROFILE	DATE
BY	
NO.	
DATE	
BY	
NO.	
DATE	
BY	
NO.	
DATE	
BY	
NO.	
DATE	



WATERWAY INFORMATION TABLE

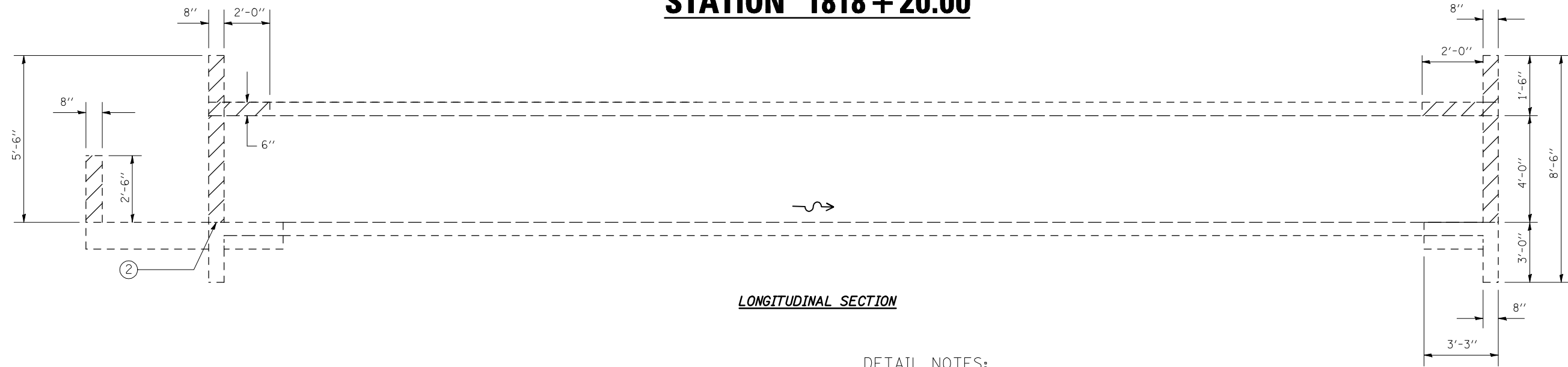
Drainage Area = 0.056 mi. ²		Proposed Low Grade Elev. = 623.64				1818+22			
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - Ft.		Headwater Elevation	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Design	10	51	9	11				619.6	618.8
Base	50	87	11	13				620.4	619.7
Base	100	104	11	13				621.1	620.1
Overtopping									
Max. Calc.	500	147	11	13				622.7	621.6

PLOT DATE = 4/6/2009
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USER NAME = sherrill

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	44
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REMOVAL DETAIL FOR EXISTING STRUCTURE

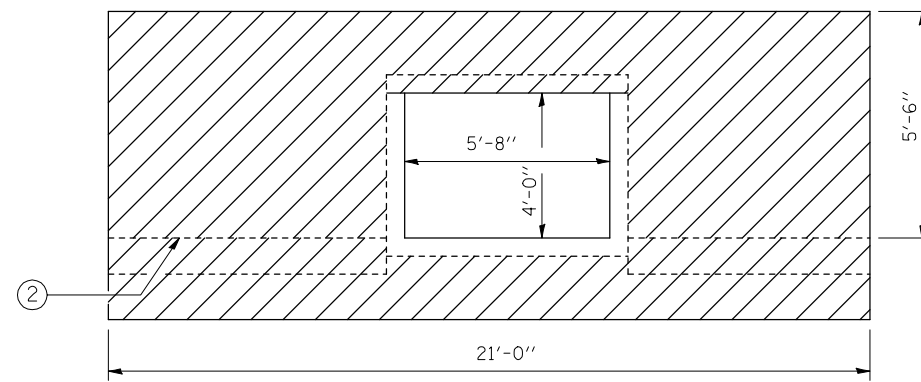
STATION 1818 + 20.00



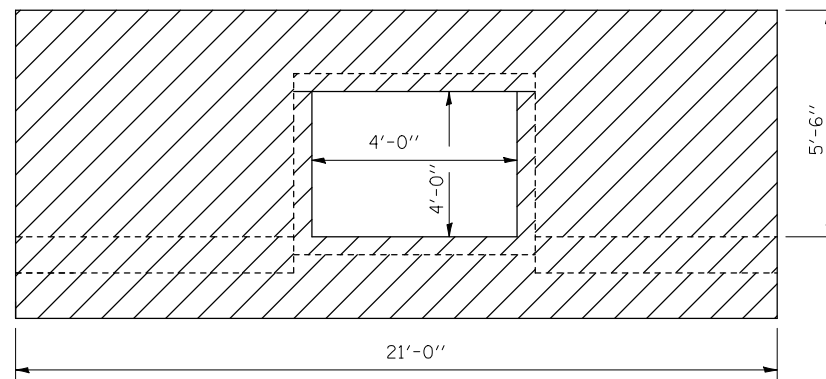
LONGITUDINAL SECTION

DETAIL NOTES:

- ① Removal of the existing headwalls and portions of the existing box culvert and drop structure shall be removed prior to filling with CLSM.
- ② Remove portions down to flowline of the existing box culvert.
- ③ See DETAIL OF EXISTING STRUCTURE for further existing structure information.
- ④ All measurements and dimensions are based on AS-BUILT plan information. All dimensions and measurements shall be verified by the engineer in the field. Modifications to the removal areas may be required.
- ⑤ All removal items shall be considered incidental to and included in the contract unit price per CUBIC YARD for CONTROLLED LOW STRENGTH MATERIAL.



UPSTREAM END ELEVATION (SHOWN ON SKEW, DROP STRUCTURE NOT SHOWN)



DOWNSTREAM END ELEVATION (NOT SHOWN ON SKEW)

Removal area

DRAWING NOT TO SCALE

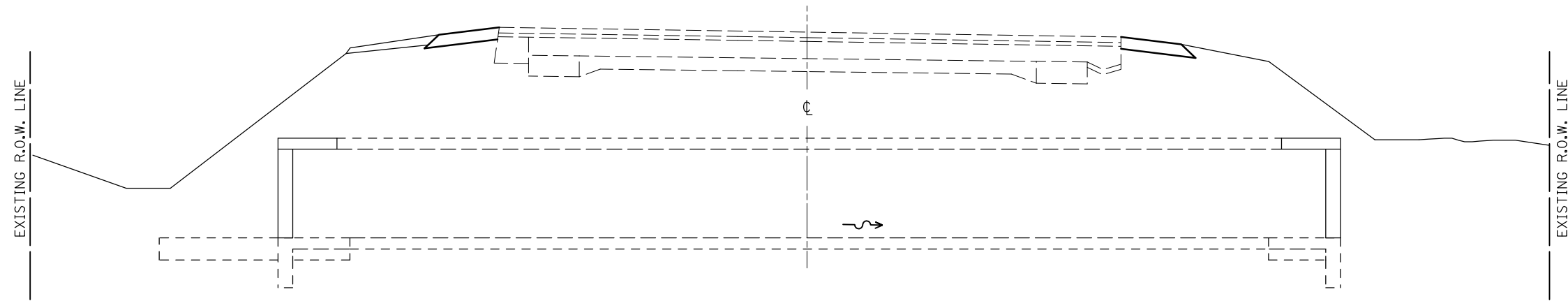
SHEET 3 OF 8

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF CONTROLLED LOW STRENGTH MATERIAL, STA. 1818+20
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY
 SCALE: NOT TO SCALE DRAWN BY: JMS
 DATE: 06/12/2008 CHECKED BY:

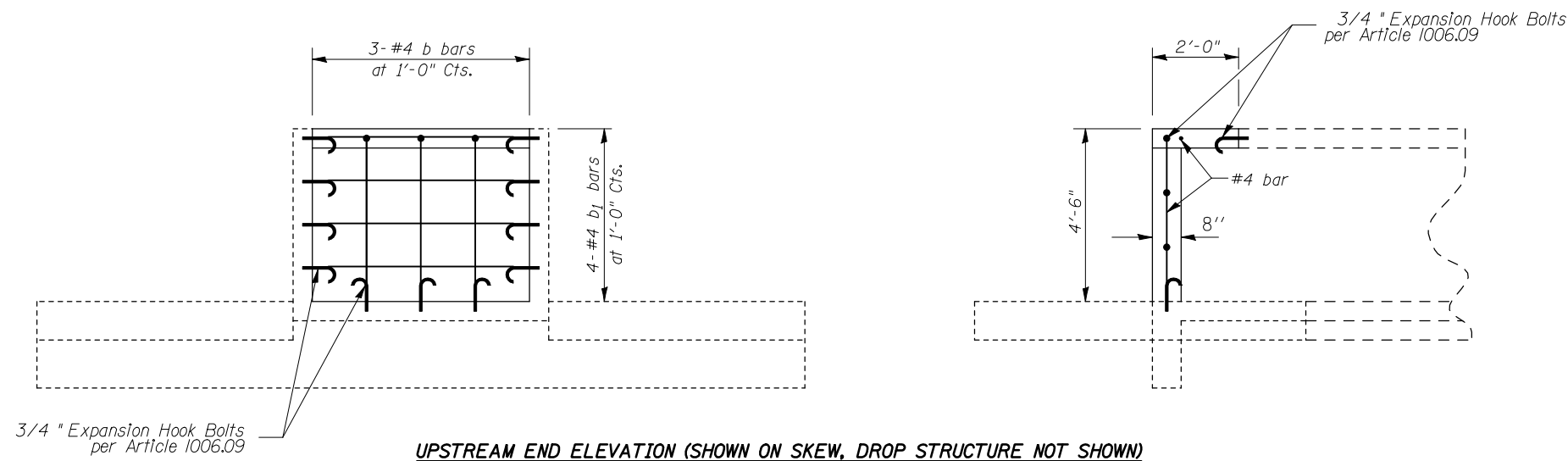
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	45
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CAPPING DETAIL FOR EXISTING STRUCTURE

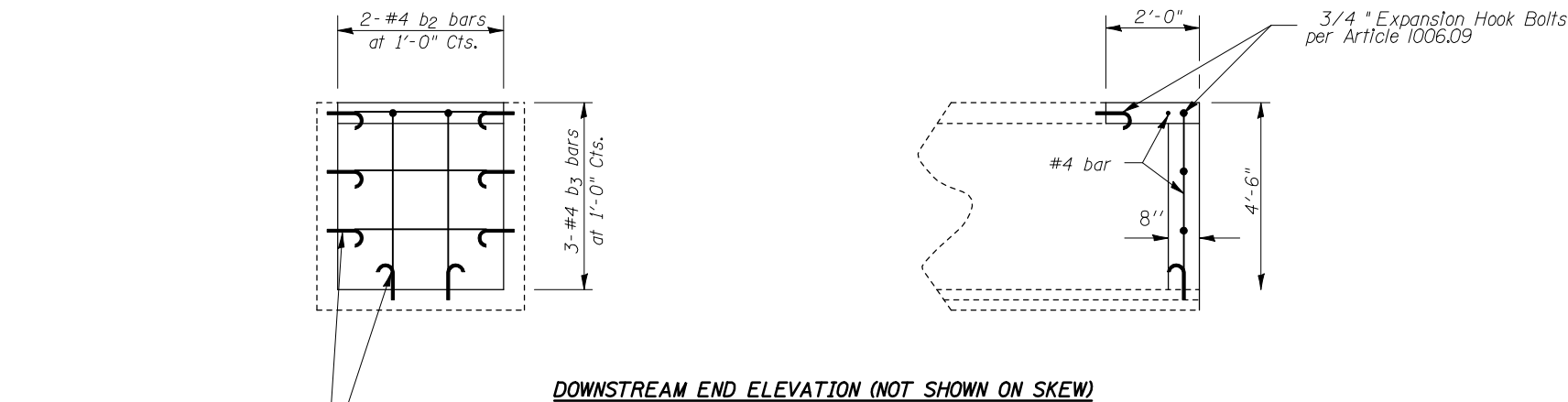
STATION 1818 + 20.00



LONGITUDINAL SECTION



UPSTREAM END ELEVATION (SHOWN ON SKEW, DROP STRUCTURE NOT SHOWN)



DOWNSTREAM END ELEVATION (NOT SHOWN ON SKEW)

DETAIL NOTES:

- ① Concrete Headwall Removal shall be removed and new cap in place prior to the filling of the existing box culvert.
- ② The engineer may modify the locations of the removal to accomodate staging.
- ③ Filling of the existing culvert along with the capping may be done prior to the construction of the new A.R. Culvert..
- ④ Expansion bolts shall consist of self drilling expansion shields & 3/4" Ø hooked bolts. Bolts shall extend a minimum of 9" into existing concrete.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	3	#4	4'-0"	—
b ₁	4	#4	5'-0"	—
b ₂	2	#4	4'-0"	—
b ₃	3	#4	3'-8"	—
Class SI Concrete			Cu. Yd.	1.4
Reinforcement Bars			Pound	35.0
3/4" EXP. HK. BOLTS			EACH	24.0

Item	Unit	Qty.
Concr. Low Str. Matl.	Cu. Yd.	318.0

DRAWING NOT TO SCALE

SHEET 4 OF 8

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF CONTROLLED LOW STRENGTH MATERIAL, STA. 1818+20
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

SCALE: NOT TO SCALE DRAWN BY: JMS
 DATE: 06/12/2008 CHECKED BY:

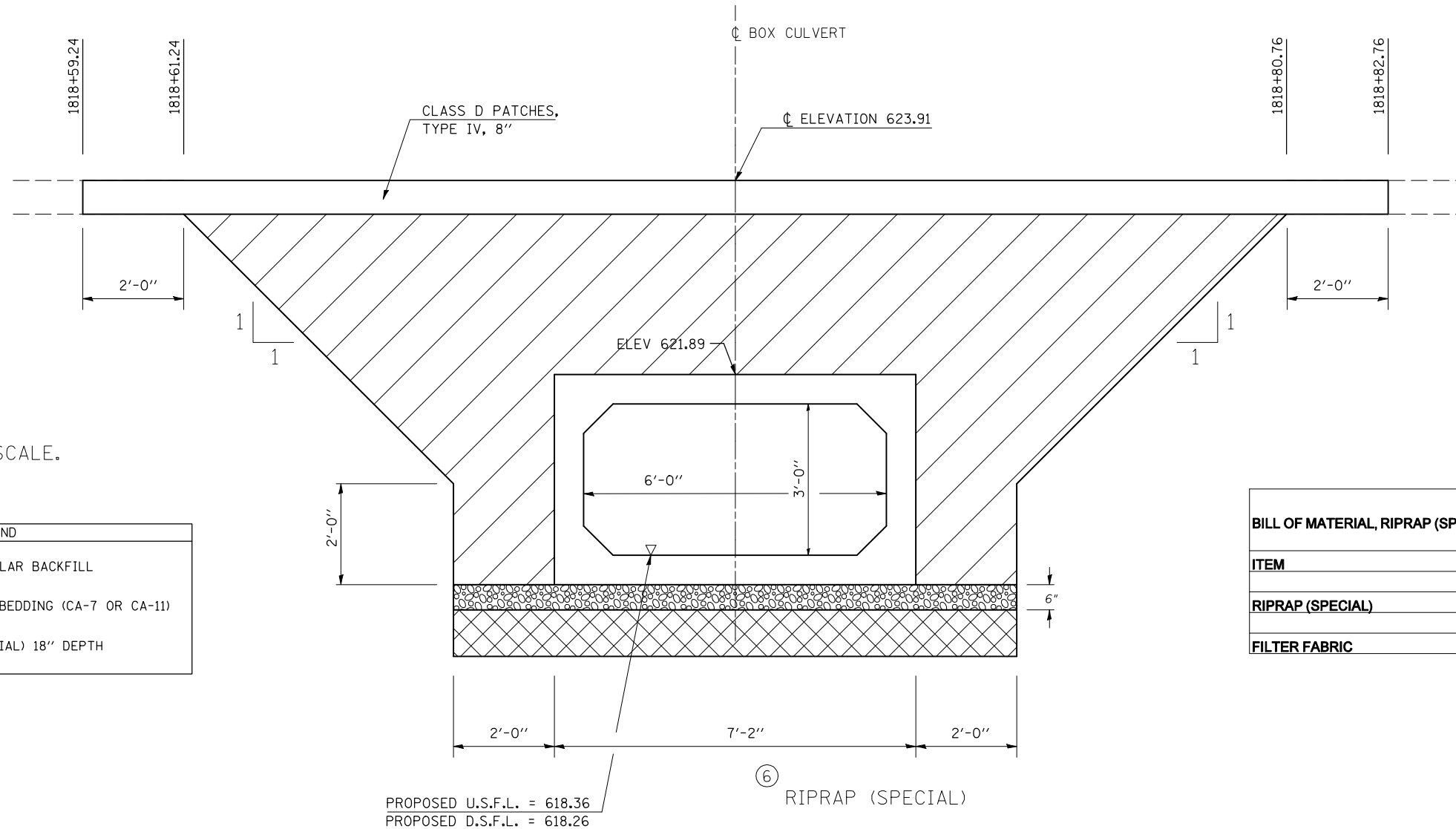
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 PLOT SCALE = 4.23529 / IN.
 USER NAME = sherer_jm

3/4" Expansion Hook Bolts per Article 1006.09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	46
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF POROUS GRANULAR BACKFILL PAY LIMITS

CULVERT NO. 2, STATION 1818+71.00 S.N. 023-8063



DRAWING NOT TO SCALE.

LEGEND	
	POROUS GRANULAR BACKFILL
	BOX CULVERT BEDDING (CA-7 OR CA-11)
	RIP RAP (SPECIAL) 18" DEPTH

BILL OF MATERIAL, RIPRAP (SPECIAL)	
ITEM	SQ YDS
RIPRAP (SPECIAL)	56
FILTER FABRIC	56

DETAIL NOTE(S):

- ① Porous Granular Backfill shall extend 2 ft. beyond the aggregate shoulder.
- ② Work shown in detail shall be done according to the applicable portions of article 209 and article 540 of the Standard Specifications.
- ③ The area to be excavated for the proposed box culvert shall be measured and paid for at the contract unit price per cubic yard for STRUCTURE EXCAVATION.

- ④ This work shall be paid for at the contract unit price per cubic yard for POROUS GRANULAR BACKFILL.
- ⑤ SPACE BETWEEN BOXES SHALL BE FILLED ACCORDING TO ARTICLE 540.06 AND SHALL NOT BE PAID FOR SEPERATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS ASSOCIATED WITH BOX CULVERT CONSTRUCTION.

⑥ RIPRAP (SPECIAL)

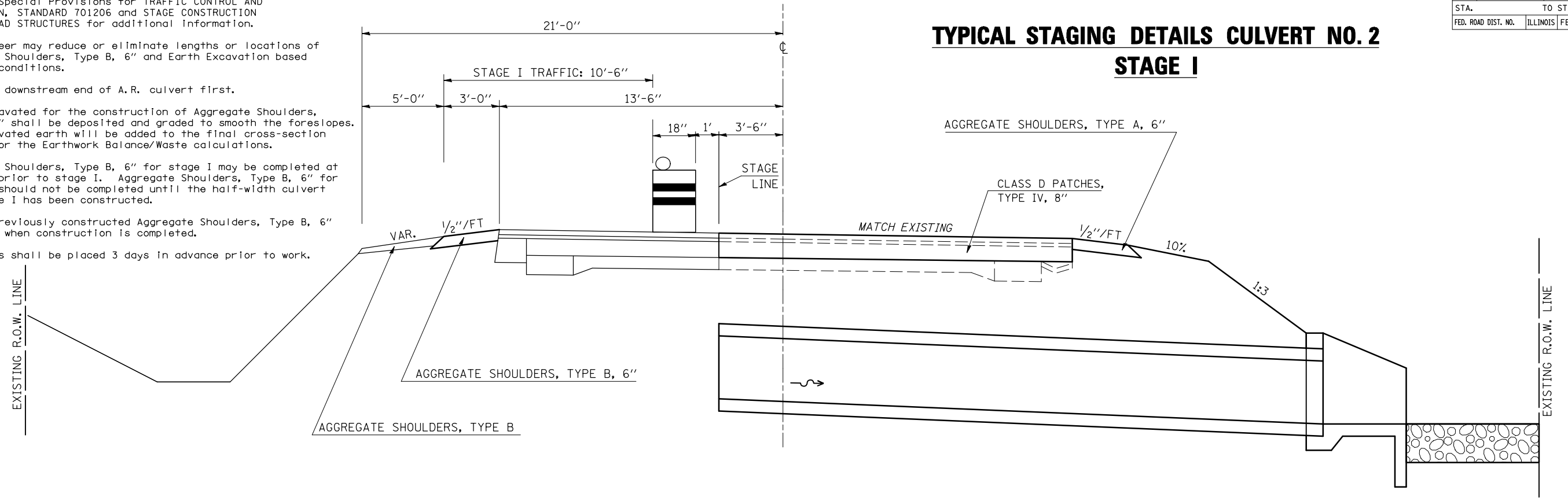
Riprap (Specia) shall be used at locations, as shown on the plans, where A.R. Culverts are required to be undercut due to unstable soil conditions. Riprap, Special shall meet the requirements of Stone Riprap, Class A1 as described in Article 281 of the Standard Specifications. Riprap, Special shall be placed on Filter Fabric for Use with Riprap as described in Article 282 of the Standard Specifications. The excavation and removal of the unsuitable material will be included in the cost of the precast box culvert of the type and size specified.

Riprap (Specia) will not be measured for payment. This work shall be included in the contract unit price per foot for PRECAST CONC. BOX CULVERT, 6' X 3' which shall include the excavation, removal of unsuitable material, filter fabric, equipment, labor.

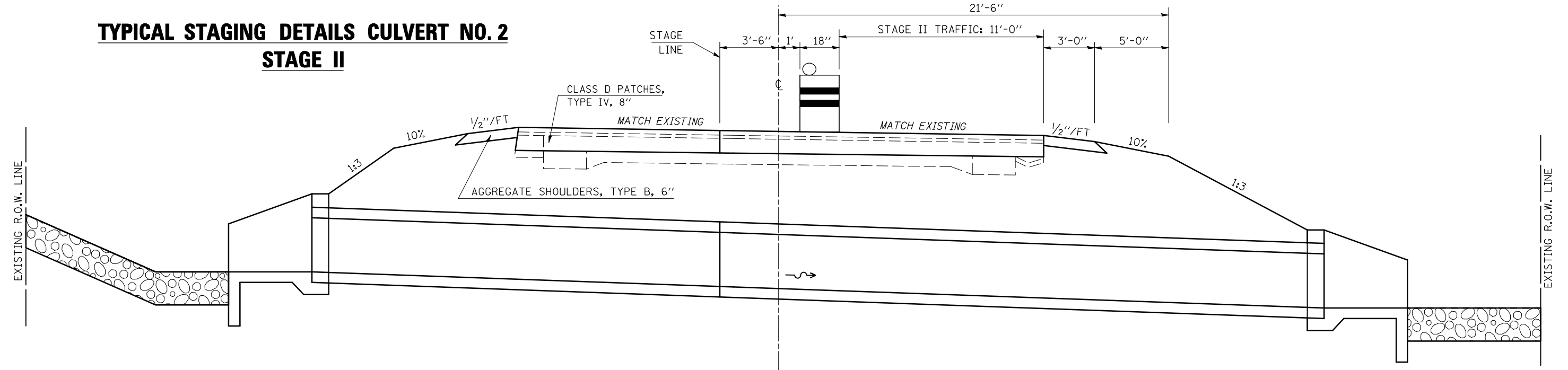
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	47
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

- 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 B, 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 B, 6" 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 B, 6" for stage I may be completed at any time prior to stage I. Aggregate Shoulders, Type B, 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 B, 6" as needed when construction is completed.
 7. CMS boards shall be placed 3 days in advance prior to work.

**TYPICAL STAGING DETAILS CULVERT NO. 2
STAGE I**



**TYPICAL STAGING DETAILS CULVERT NO. 2
STAGE II**



A. R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	CHANGEABLE MESSAGE SIGNS
STA. 1817+93.65	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

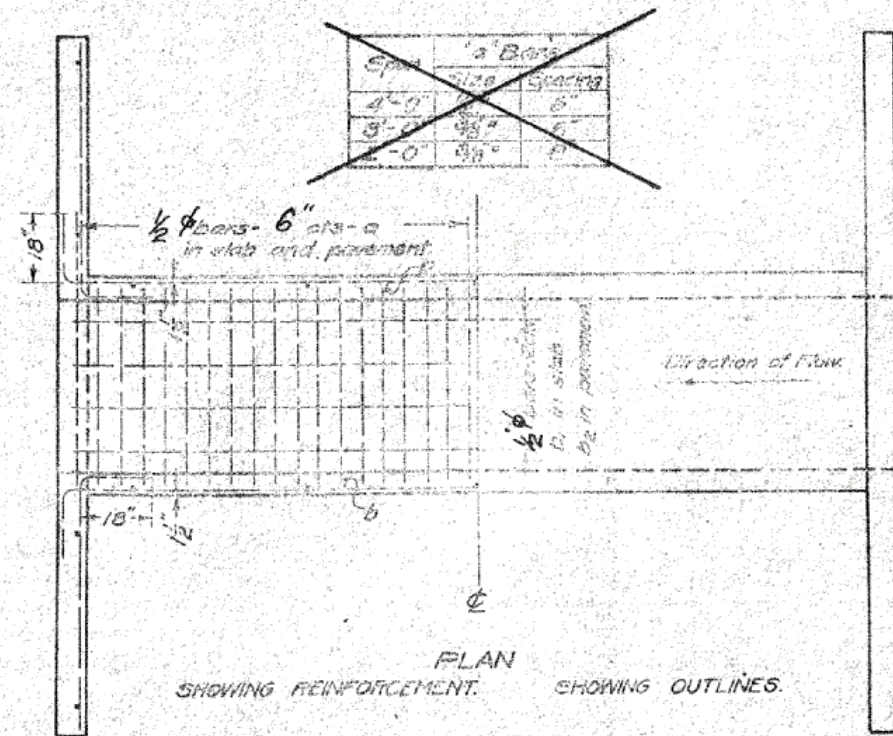
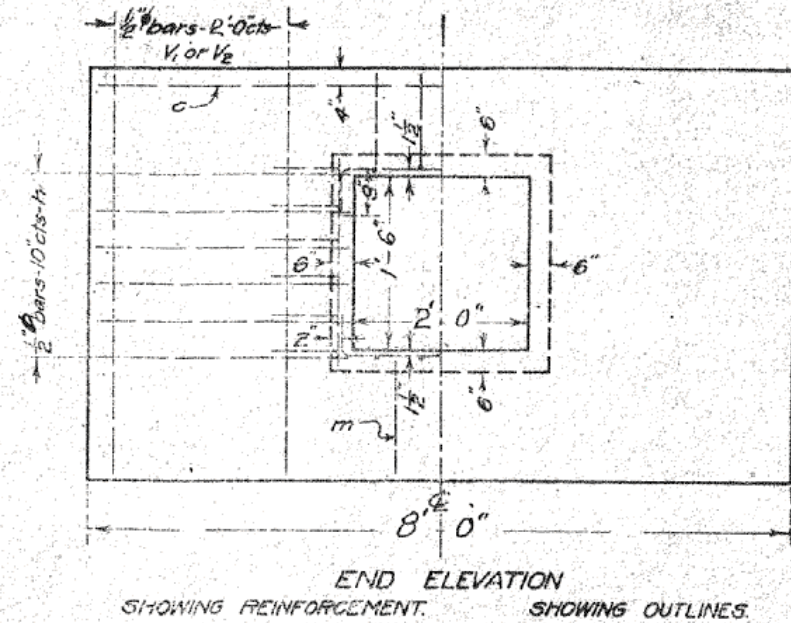
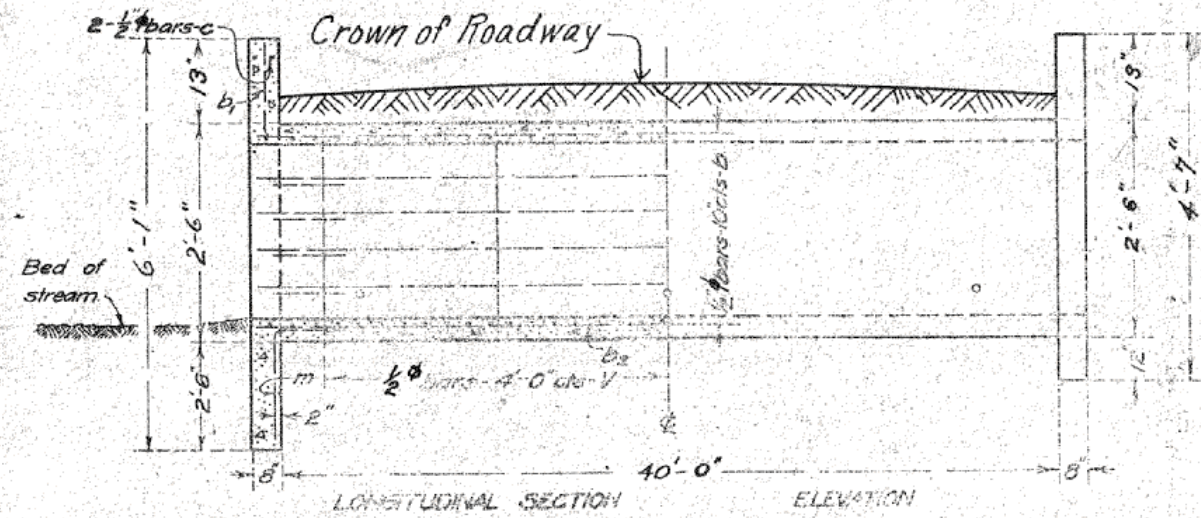
DRAWING NOT TO SCALE

SHEET 5 OF 8

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL &
 STAGING DETAILS - S.N. 023-8063**
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY
 SCALE: NOT TO SCALE DRAWN BY: JMS
 DATE: 06/11/2008 CHECKED BY:

PLOT DATE = 4/4/2009
 FILE NAME = c:\p\work\149150\149150RS-3\Culvert-023-8063.dgn
 PLOT SCALE = 4.23625 / IN.
 USER NAME = sherej

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	50
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Note:
~~Fill in below should be limited to 4'-0"~~
 Maximum Clearance = 4'-0"
 Use "m" Bars in downstream headwall only.

BILL OF MATERIAL

Bars	No.	Size	Length
v	22	1/2" φ	2'-3"
v1	4	1/2" φ	5'-9"
v2	4	1/2" φ	4'-3"
h	12	1/2" φ	4'-0"
a	166	1/2" φ	4'-3"
b	12	1/2" φ	23'-0"
b1	4	1/2" φ	22'-6"
b2	4	1/2" φ	21'-6"
c	4	1/2" φ	7'-6"
m	2	1/2" φ	5'-0"
Steel - Lbs.			890
Concrete - Cu. Yds.			8.6

STATION	CROWN Elev	Flow L. Elev.
1833+00	79.17	76.59
2044+63	71.95	69.37

BUILD TOPS OF HEAD-WALL PARALLEL TO GRADE LINE.
 ADJUST HEIGHT OF HEAD WALLS TO BE 12 INCHES ABOVE SHOULDER ELEVATION.

X
 Class A concrete to be used throughout

SPECIAL CULVERT DESIGN
 S.B.I. Rt 121 CONST. SEC. 150
 EDGAR COUNTY ILL.
 STA. 1833+00
 STA. 2044+63

STANDARD	COMPUTED	Walter J. Janda
	CHECKED	H. J. ...
	DRAWN	W. J. ...
	CHECKED	...
SPECIAL	ASSEMBLED	B.A. Reed
	CHECKED	T. R. ...

PASSED
 EXAMINED
 M. J. Bunch
 BRIDGE ENGINEER
 ENGINEER OF DESIGN.

APPROVED
 Jan 27 2008

SHEET 2 OF 6

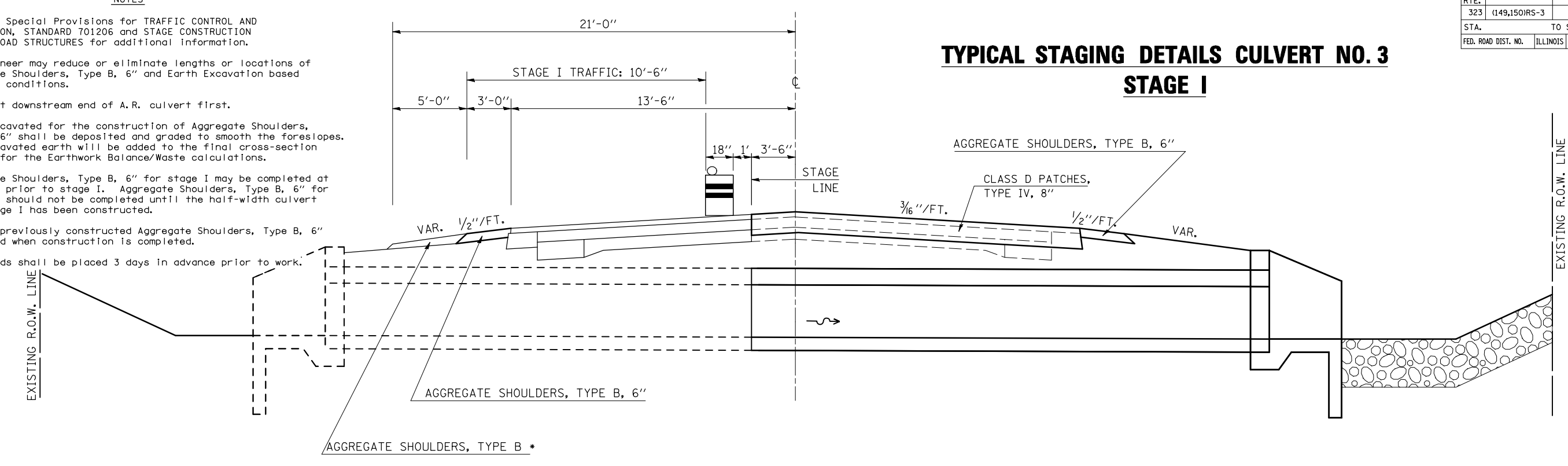
ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING STRUCTURE INFORMATION
 STATION 1833+78.50
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY
 SCALE: NOT TO SCALE DRAWN BY: JMS
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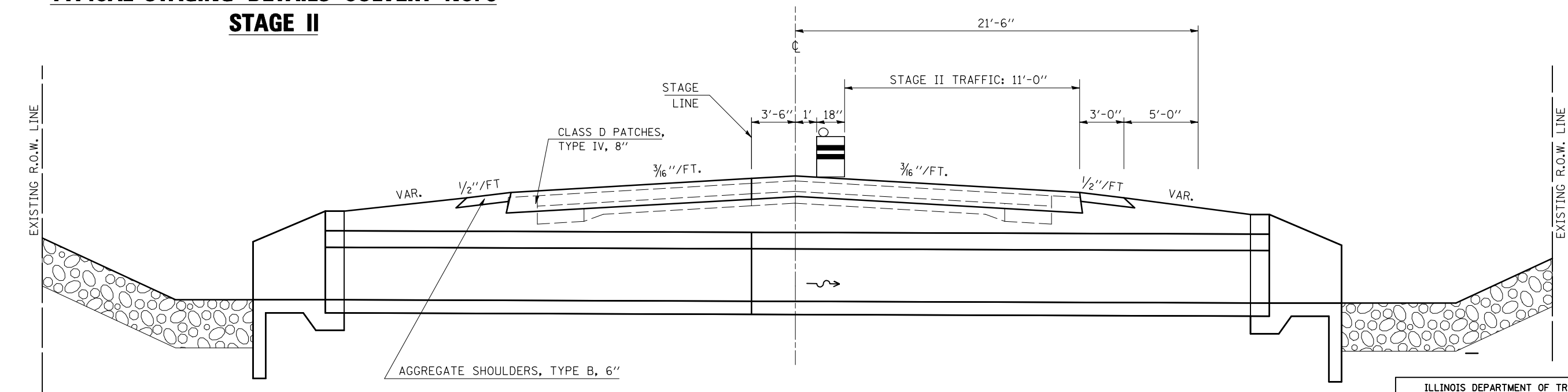
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	52
STA. 1833+78.50		TO STA. 1833+78.50		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

- 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 B, 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 B, 6" 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 B, 6" for stage I may be completed at any time prior to stage I. Aggregate Shoulders, Type B, 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 B, 6" as needed when construction is completed.
 7. CMS boards shall be placed 3 days in advance prior to work.

**TYPICAL STAGING DETAILS CULVERT NO. 3
STAGE I**



**TYPICAL STAGING DETAILS CULVERT NO. 3
STAGE II**



A. R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	CHANGEABLE MESSAGE SIGNS
STA. 1833+78.50	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

DRAWING NOT TO SCALE

SHEET 4 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL &
 STAGING DETAILS STA. 1833+78.50**
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

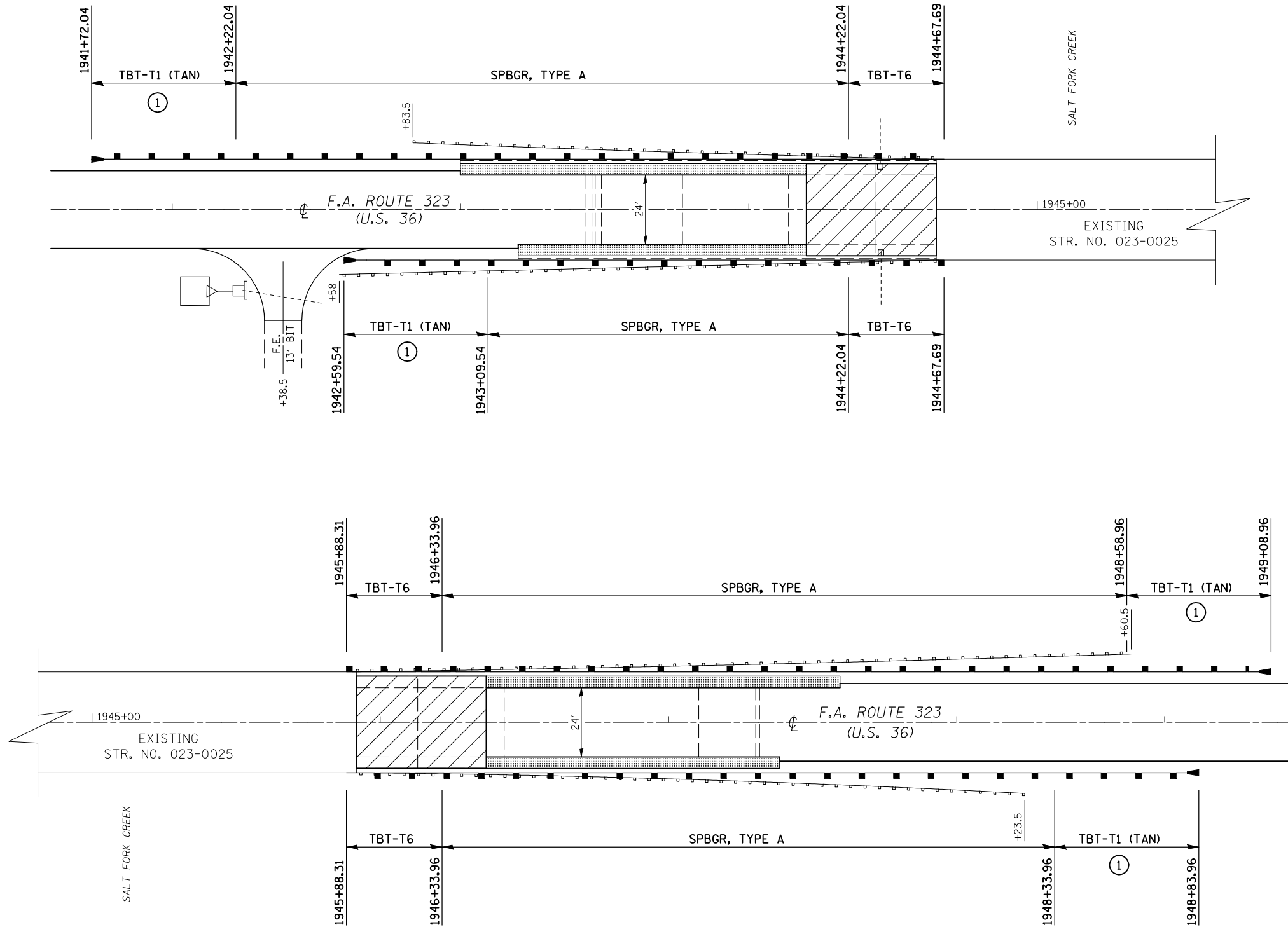
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 PLOT SCALE = 4.23629 / IN.
 USER NAME = sherer_jm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	56
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

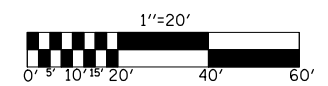
GUARDRAIL DETAILS



PLAN NOTES

- ① SHOULDERS WIDENING FOR TYPE 1 (SPL) TERMINAL SHALL BE CONSTRUCTED PRIOR TO PLACEMENT OF THE NEW GUARDRAIL AND TERMINALS.
- ② THE VARIOUS GUARDRAIL PAY ITEMS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATIONS AND LENGTHS MAY OCCUR.

SHEET 2 OF 3



- MILLING TRANSITION
- HMA SHOULDERS

ILLINOIS DEPARTMENT OF TRANSPORTATION
GUARDRAIL DETAILS
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

SCALE: 1" = 20'
 DATE: 06/09/2006

DRAWN BY: CADD
 CHECKED BY:

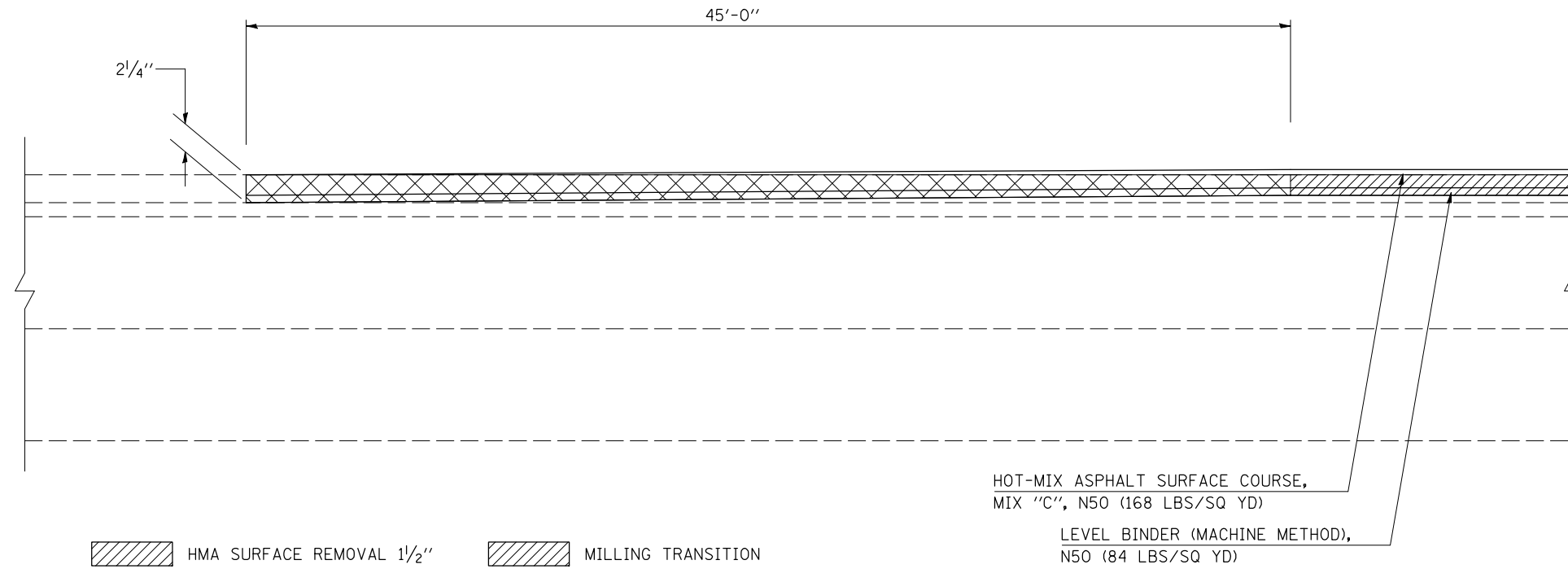
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 USER NAME = sherer_jm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	58

DETAIL OF HMA SURFACE REMOVAL – BUTT JOINT

STATION 1681+95.00 TO STATION 1682+40.00
 STATION 2081+30.87 TO STATION 2081+75.87

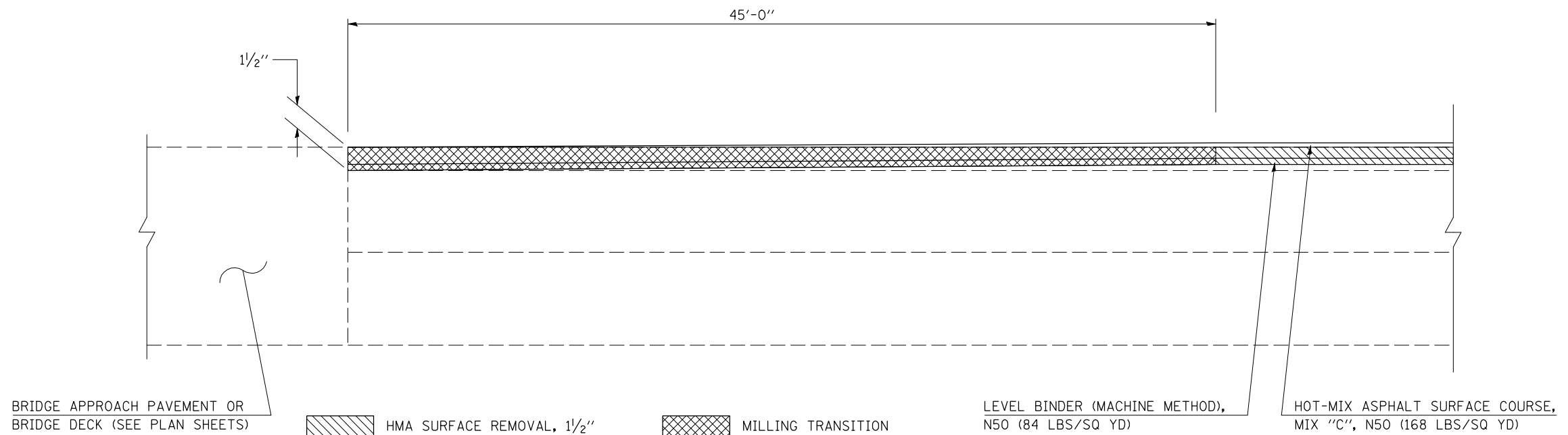
NOTE:
 AREA OF MILLING TRANSITION SHALL BE INCLUDED IN CONTRACT UNIT PRICE FOR THE HOT-MIX ASPHALT SURFACE REMOVAL - 1/2". NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.



DETAIL OF HMA SURFACE REMOVAL – BUTT JOINT AT STRUCTURES

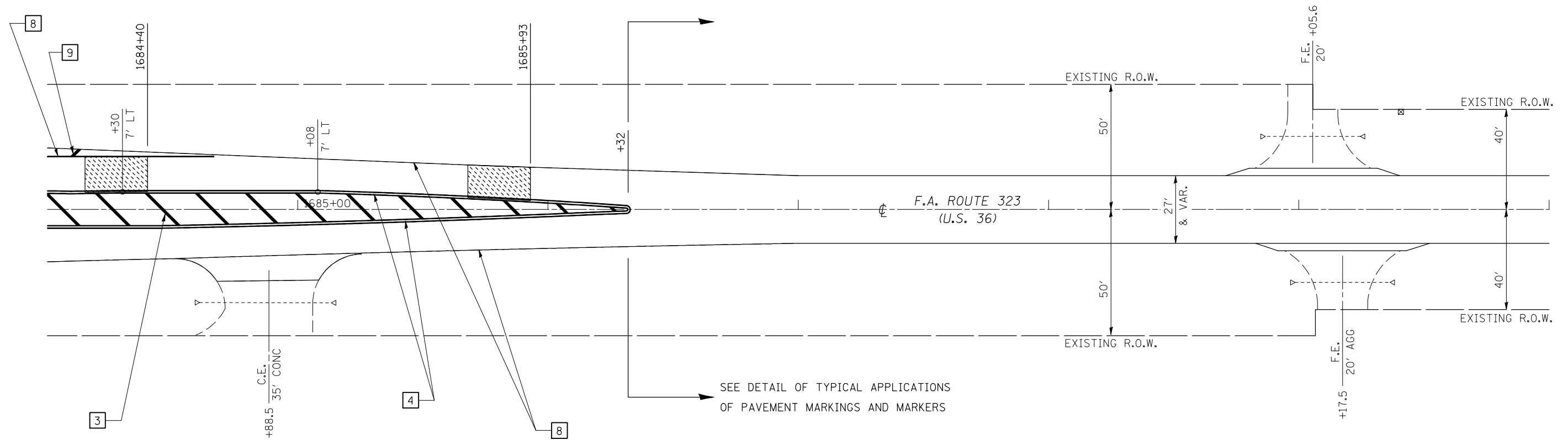
- S. N. 023-0010 STATION 1784+62.35 TO STATION 1785+07.35
- S. N. 023-0010 STATION 1786+32.63 TO STATION 1786+77.63
- S. N. 023-0025 STATION 1944+20.00 TO STATION 1944+65.00
- S. N. 023-0025 STATION 1945+91.80 TO STATION 1946+36.80
- S. N. 023-0030 STATION 2027+21.58 TO STATION 2027+66.58
- S. N. 023-0030 STATION 2028+59.42 TO STATION 2029+04.42

NOTE:
 AREA OF MILLING TRANSITION SHALL BE INCLUDED IN CONTRACT UNIT PRICE FOR THE HOT-MIX ASPHALT SURFACE REMOVAL - 1/2". NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.




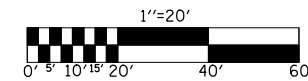
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	60
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF PAVEMENT MARKING U.S. ROUTE 36



LEGEND

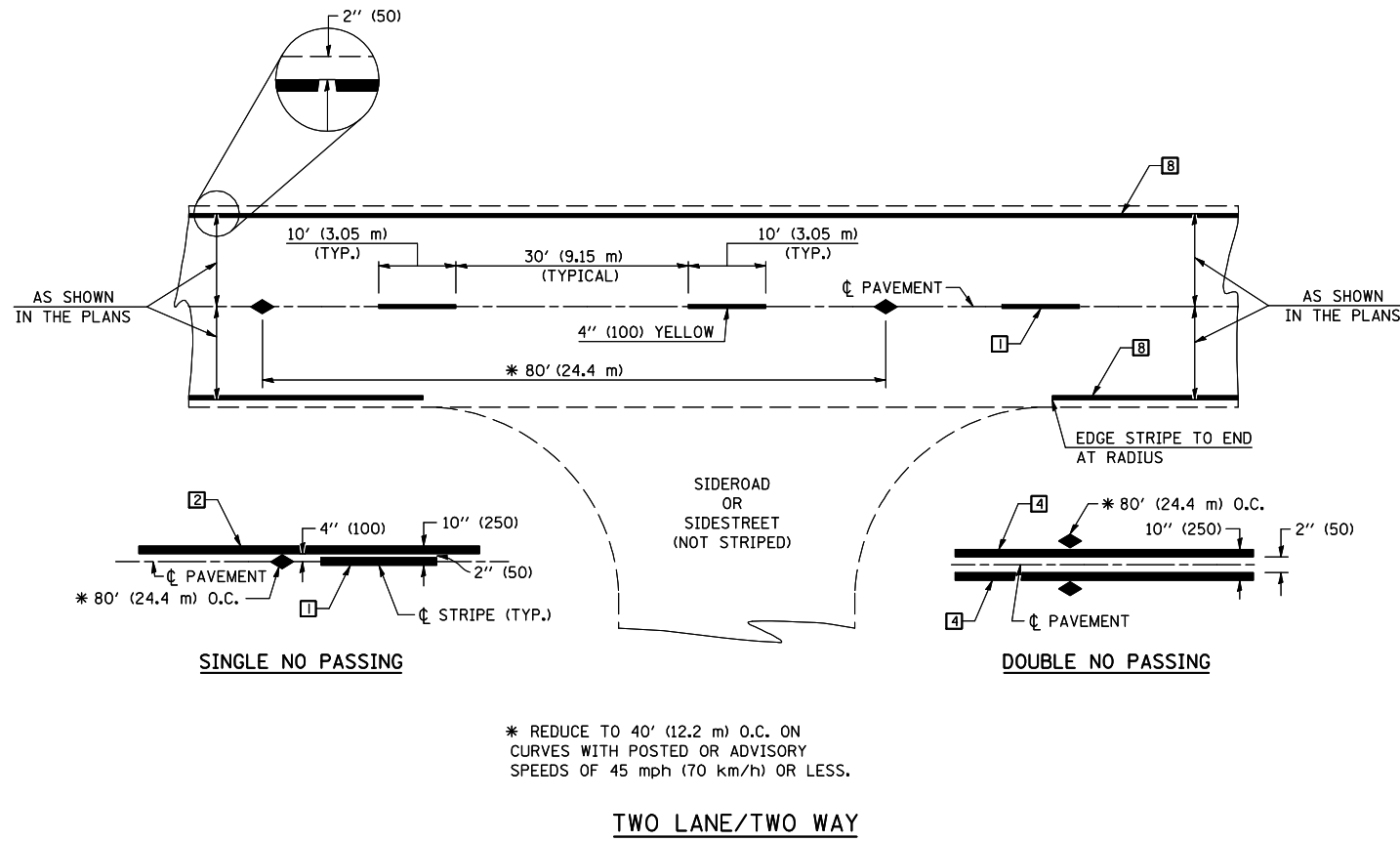
- [3] 12'' DIAGONAL (YELLOW)
- [4] 4'' DOUBLE YELLOW (NARROW)
- [8] 4'' SOLID (WHITE)
- [9] 12'' DIAGONAL (WHITE)
-  RUMBLE STRIP



ILLINOIS DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKING &
 RUMBLE STRIP DETAILS**
 FAP ROUTE 323 (US 36)
 SECTION (149,150)RS-3
 EDGAR COUNTY

SCALE: 1" = 20' DRAWN BY: CADD
 DATE: 05/30/2006 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	61
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



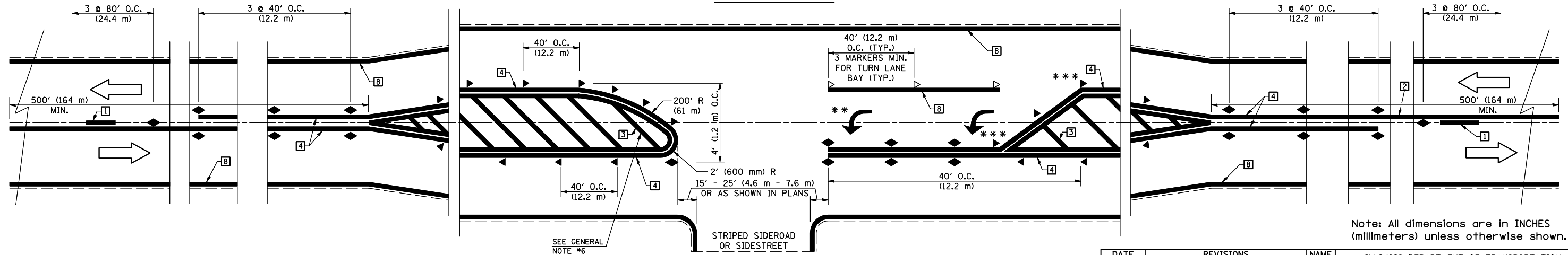
TYPICAL PAVEMENT MARKING LEGEND

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

TYPICAL PAVEMENT MARKERS LEGEND

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

RURAL LEFT TURN



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

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

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

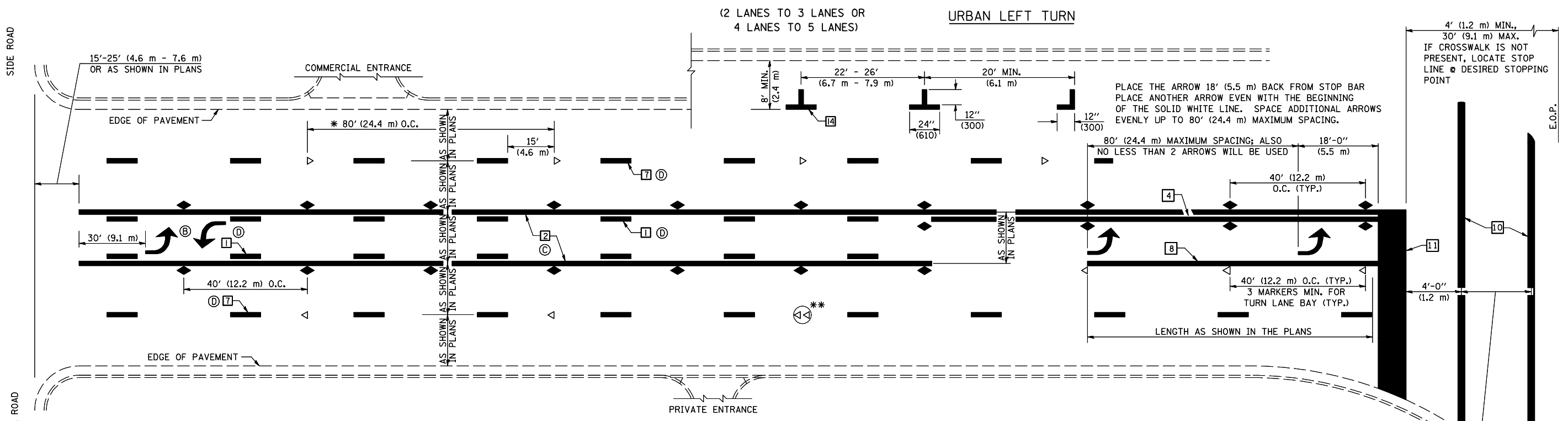
DATE	REVISIONS	NAME
11/06	REPLACED DETAIL F-5.25	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

DISTRICT 5 DETAIL NO. 7800AAAA

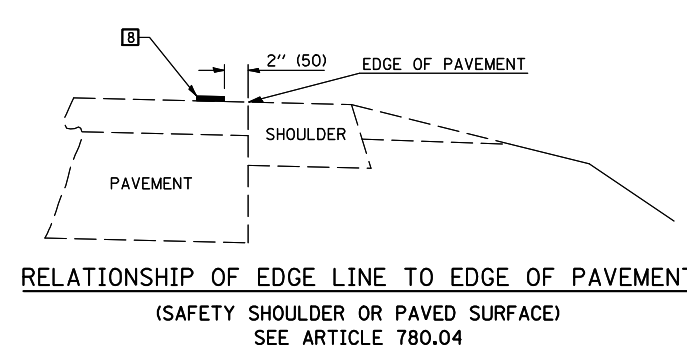
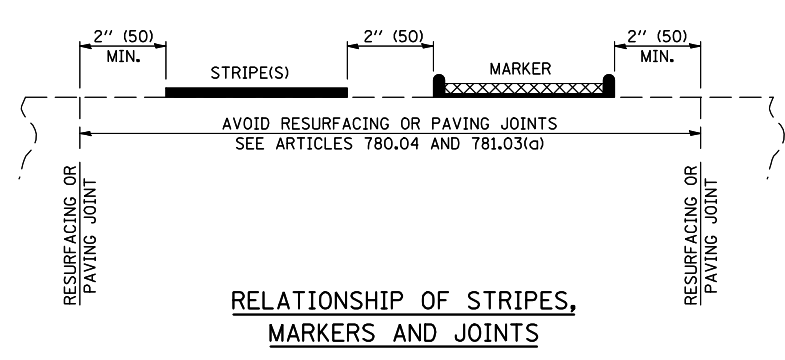
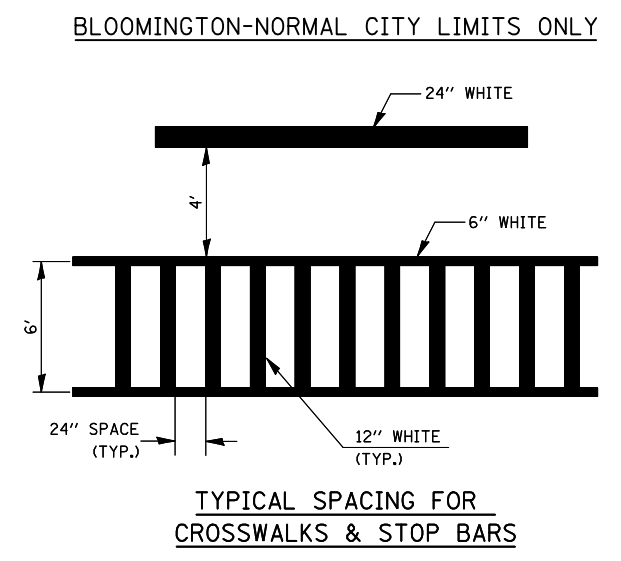
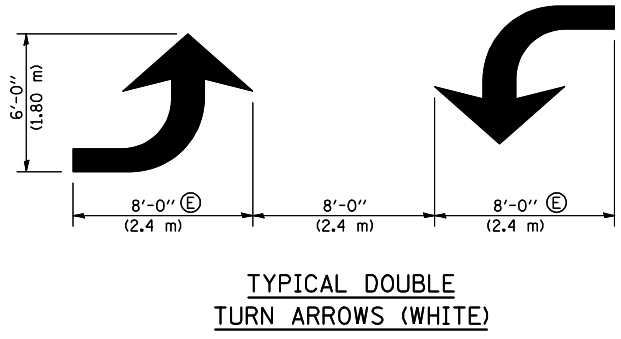
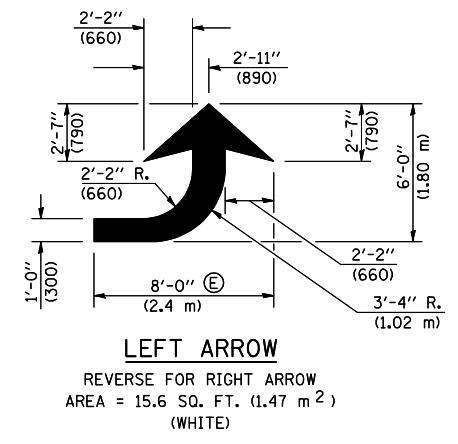
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150IRS-3)	EDGAR	83	62
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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



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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

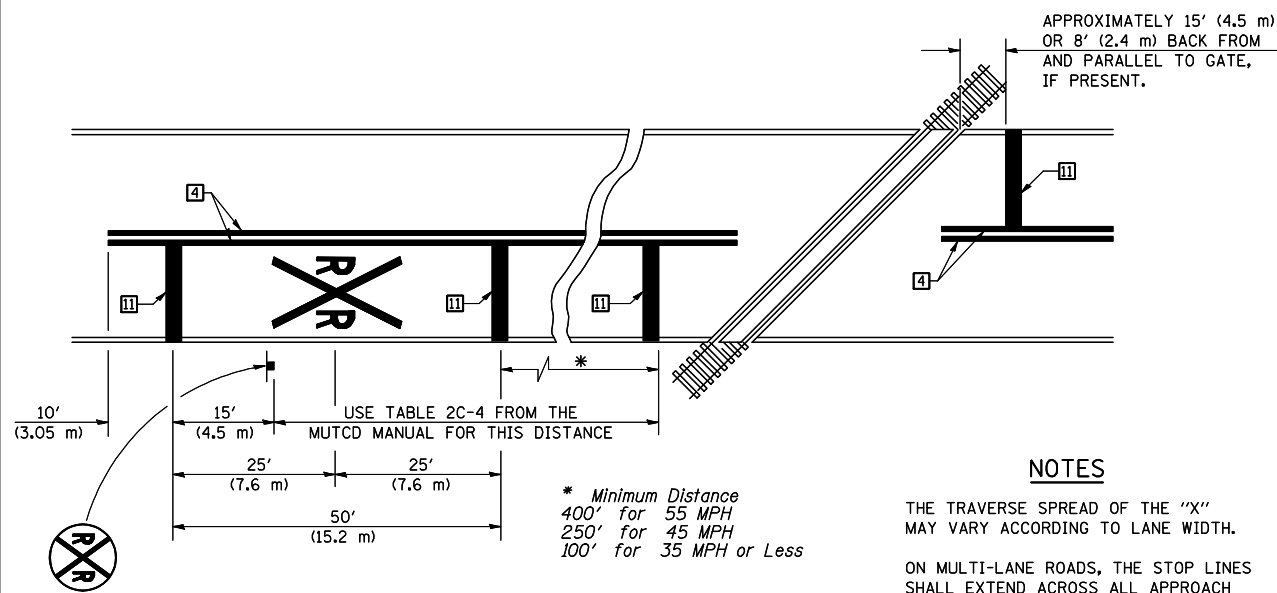
DISTRICT 5 DETAIL NO. 7800AAA

PLOT DATE = 4/4/2009
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	64
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



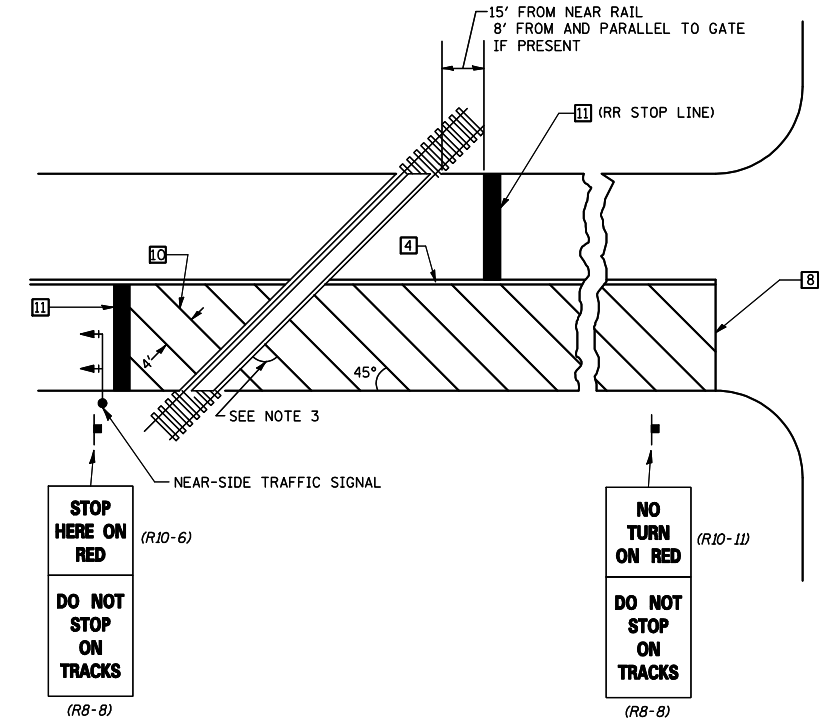
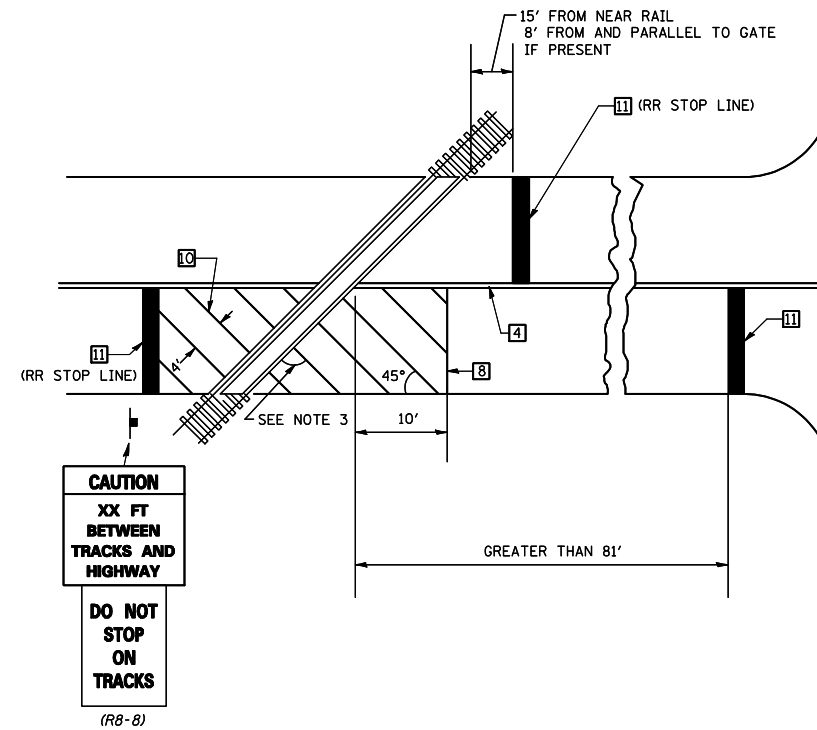
PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

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

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

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



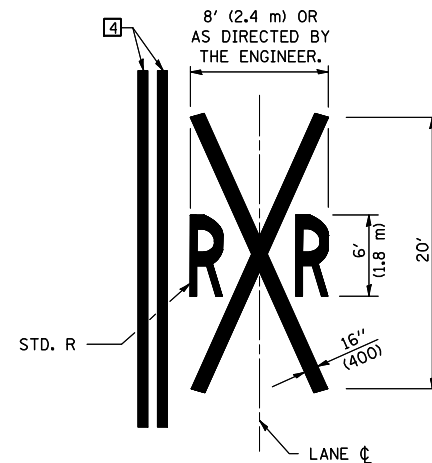
SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOTES

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

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

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



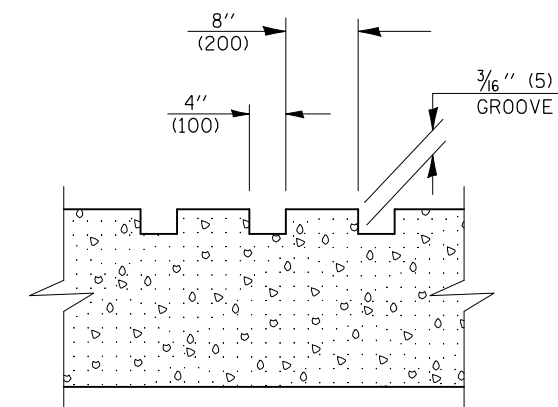
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL F-5.25	TJB	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)
			DISTRICT 5 DETAIL NO. 7800AAAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	65
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

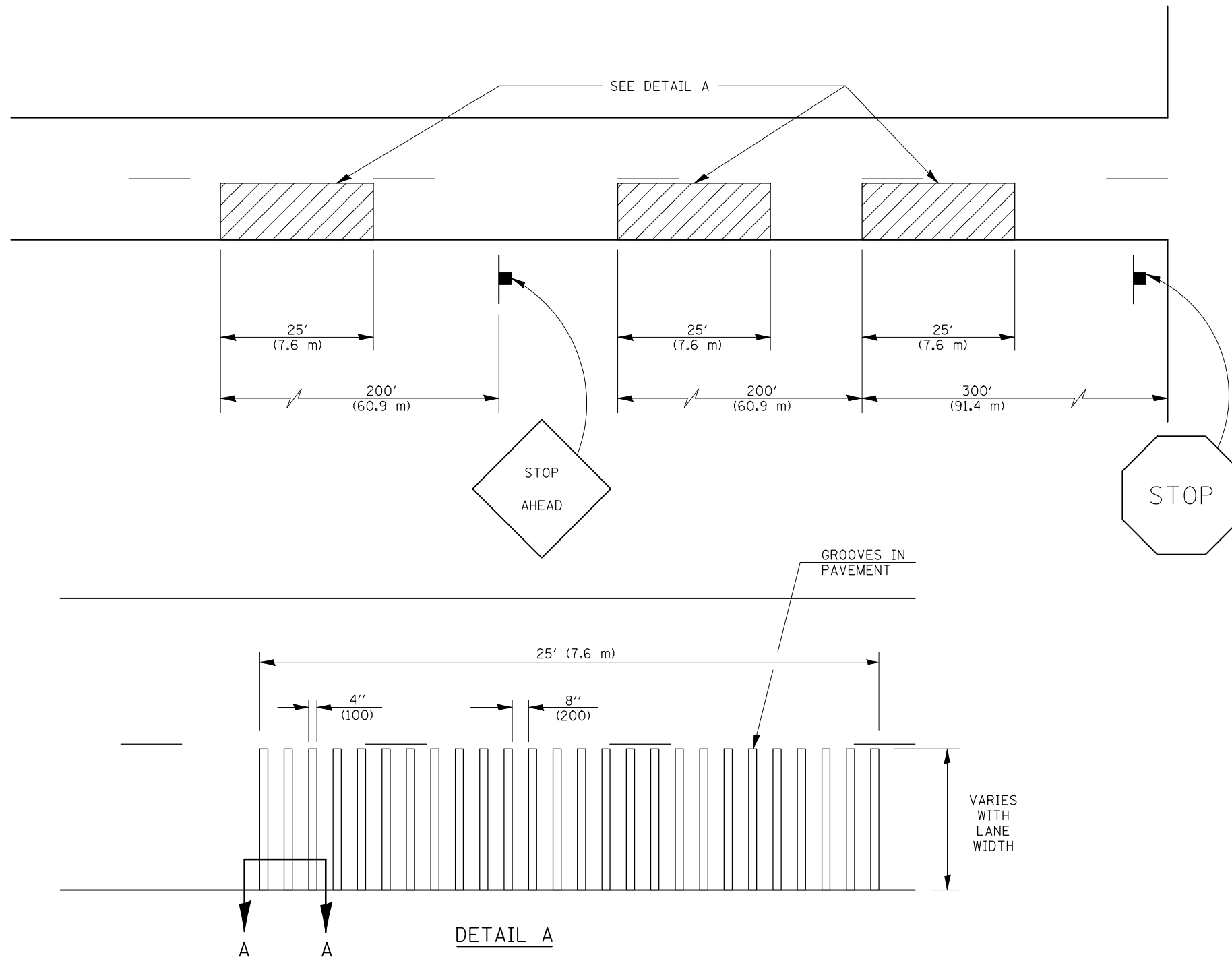
1. ALL GROOVES SHALL BE CONSTRUCTED USING A 4" (100 mm) MILLING HEAD OR SERIES OF 4" (100 mm) MILLING HEADS CAPABLE OF CUTTING TO THE SPECIFIED DEPTH OR ANY VARIABLE DEPTH.
2. THIS WORK WILL BE MEASURED FOR PAYMENT PER EACH 25' (7.6 m) INDIVIDUAL RUMBLE STRIP APPLIED AND PAID FOR AT THE CONTRACT UNIT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



SECTION A-A

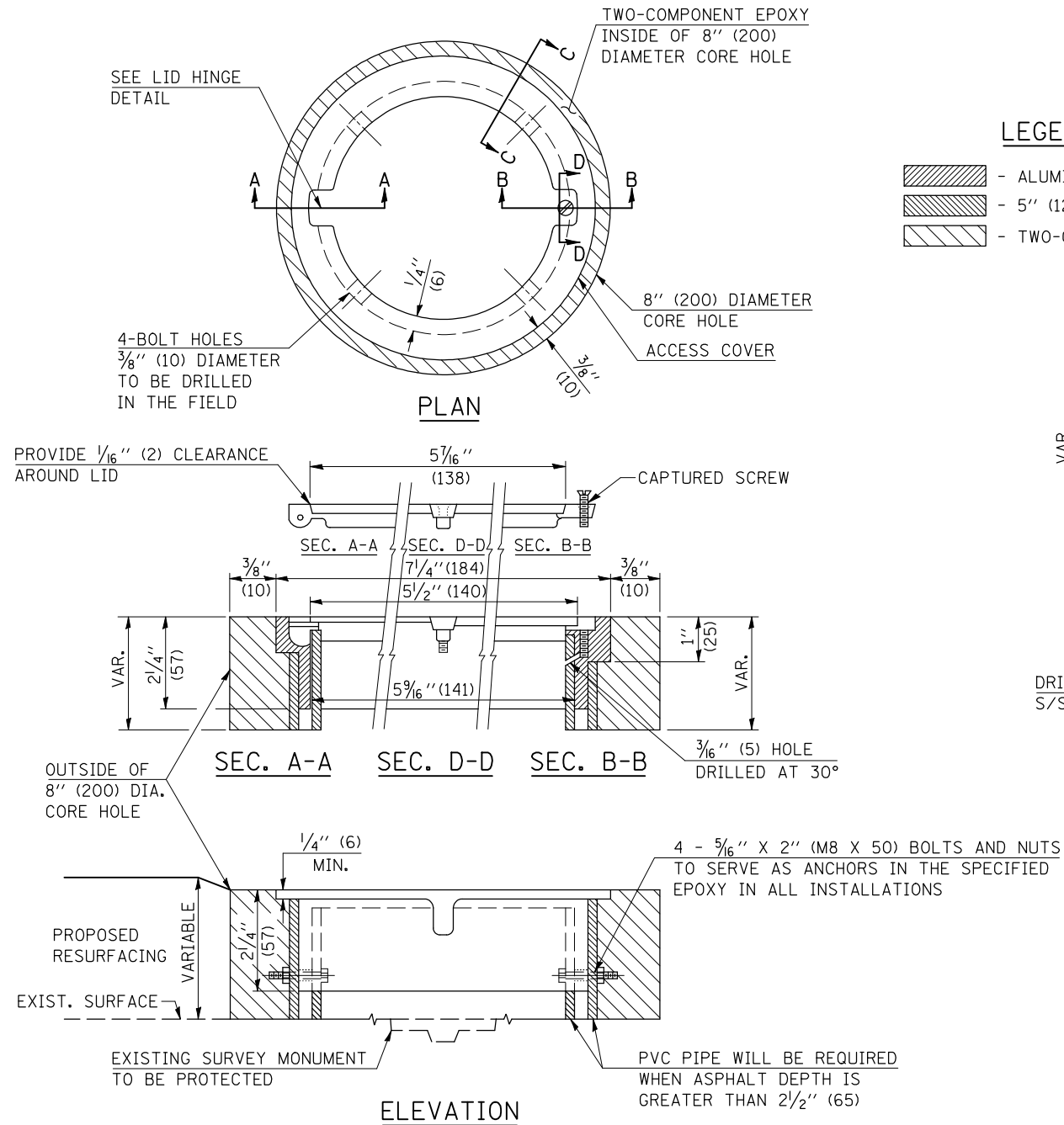
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL C-2.12	TJB	<p>RUMBLE STRIP (ADVANCE OF INTERSECTIONS)</p> <p>DISTRICT 5 DETAIL NO. Z0055300</p>



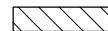


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	66
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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)



LEGEND

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

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; QQ-A-601Es. NO EXCEPTIONS.

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).

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.

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

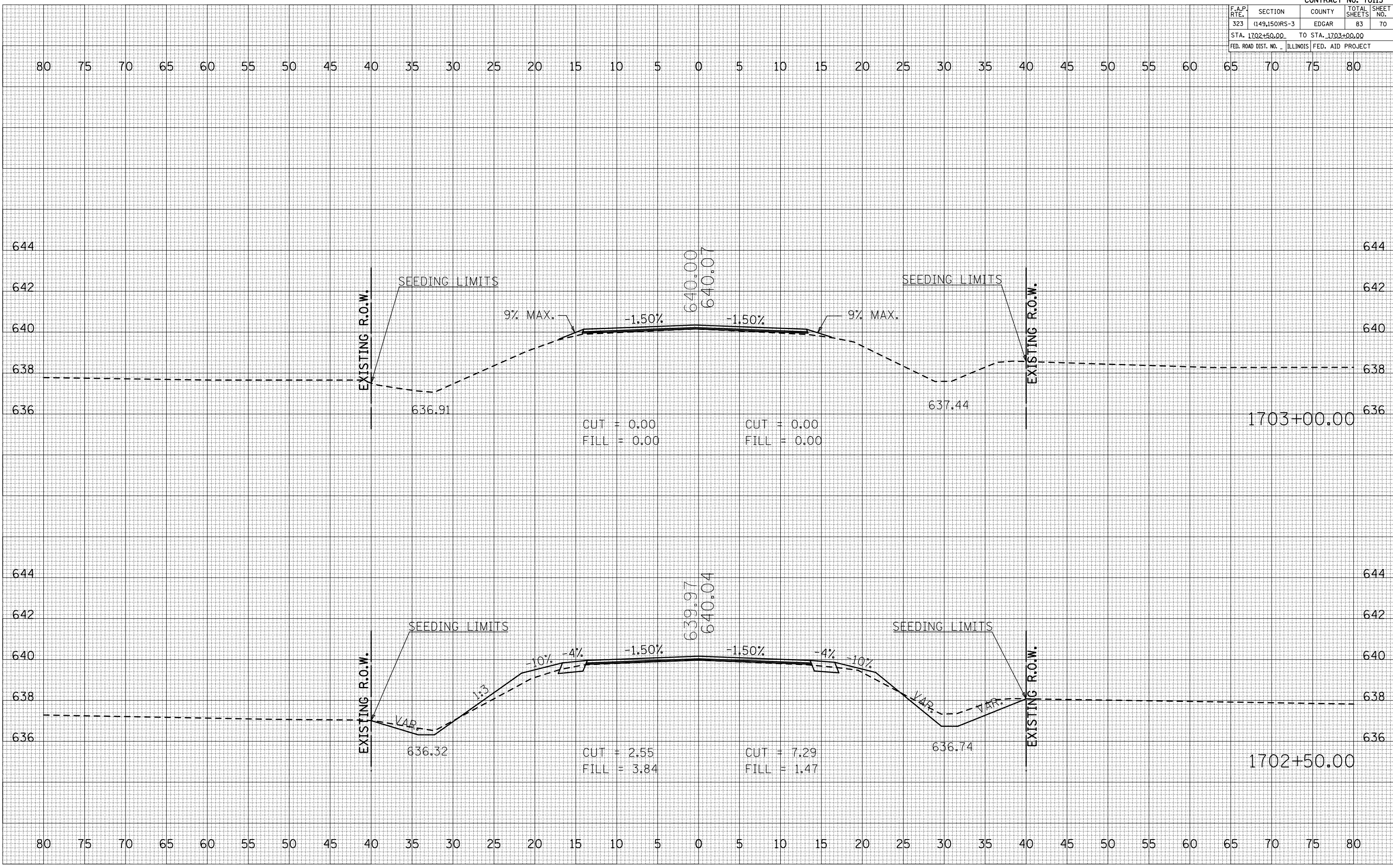
DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL D-1.04	TJB	SURVEY MONUMENT COVER ASSEMBLY
			DISTRICT 5 DETAIL NO. Z0070100

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	70
STA. 1702+50.00 TO STA. 1703+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY	DATE

BY	DATE

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PLOT SCALE = 1/8" = 1' IN.
USER NAME = sherr-jm



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	71
STA. 1817+00.00 TO STA. 1817+50.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

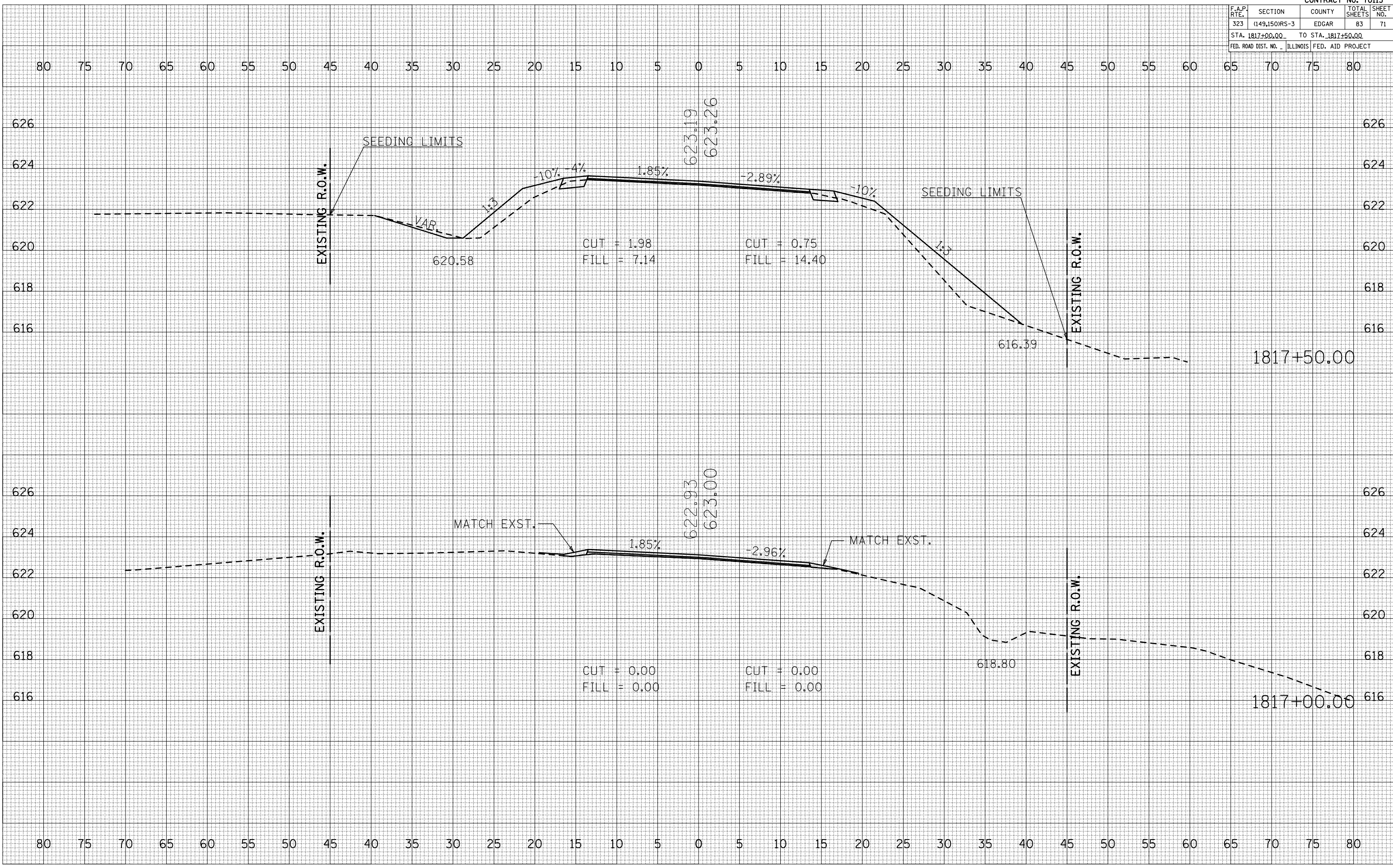
BY	DATE

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NO.	AREAS CHECKED

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	73
STA. 1818+00.00 TO STA. 1818+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY	DATE

NO.	AREAS CHECKED

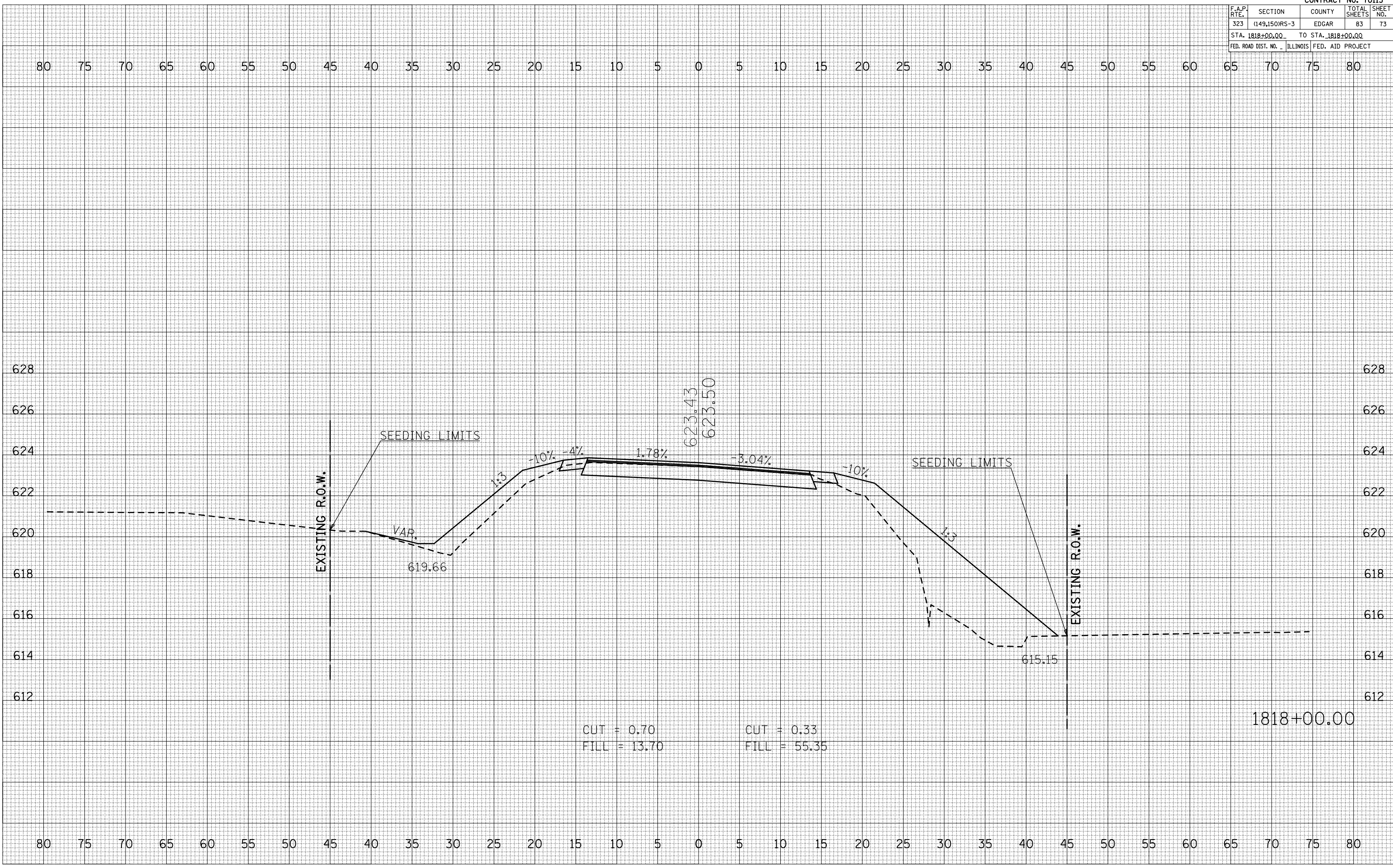
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NO.	AREAS CHECKED

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1818+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	74
STA. 1818+22.00 TO STA. 1818+22.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY	DATE

NO.	AREAS CHECKED

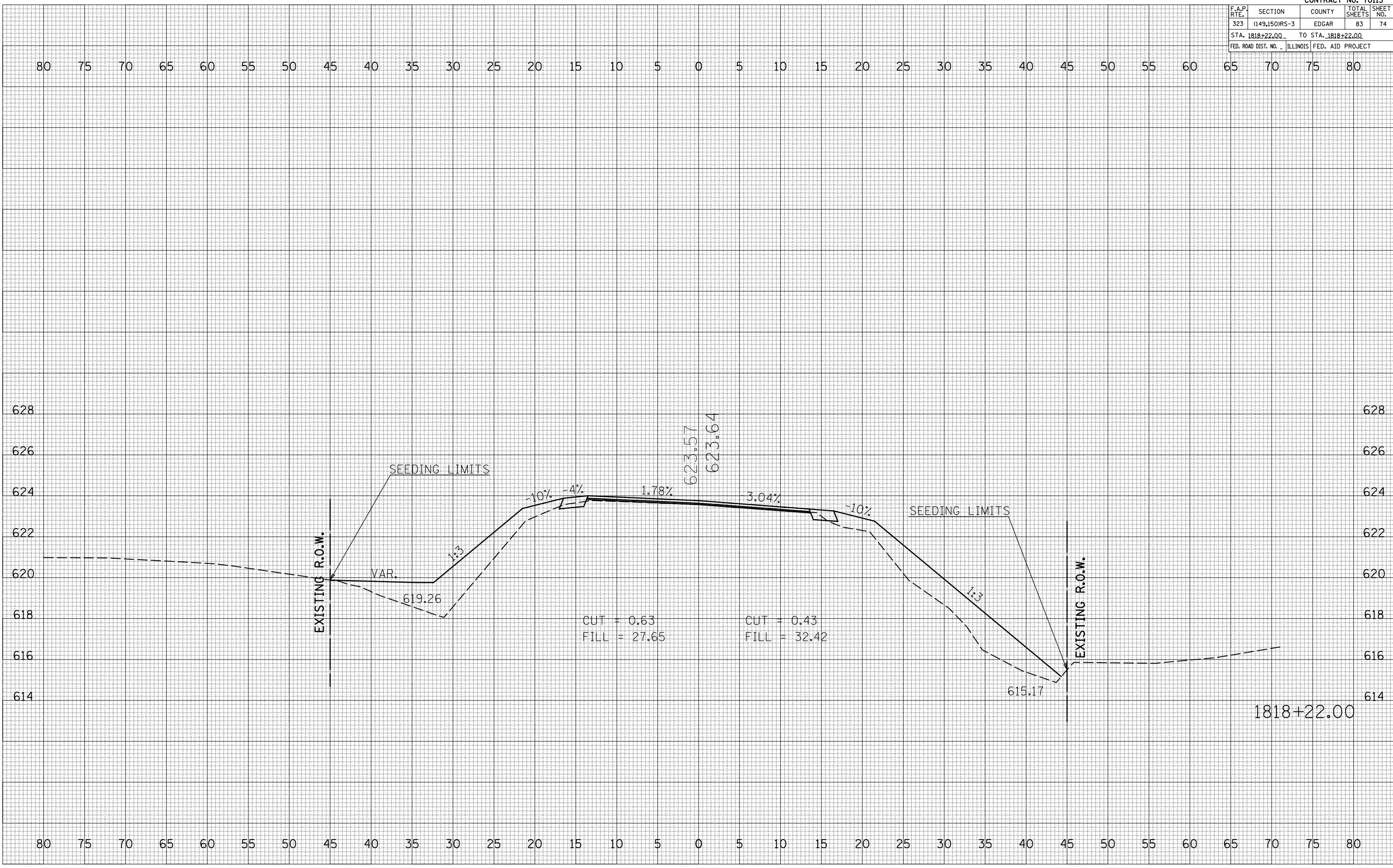
NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

NO.	AREAS CHECKED

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 USER NAME = shw-er-jm



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	75
STA. 1818+50.00 TO STA. 1818+50.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

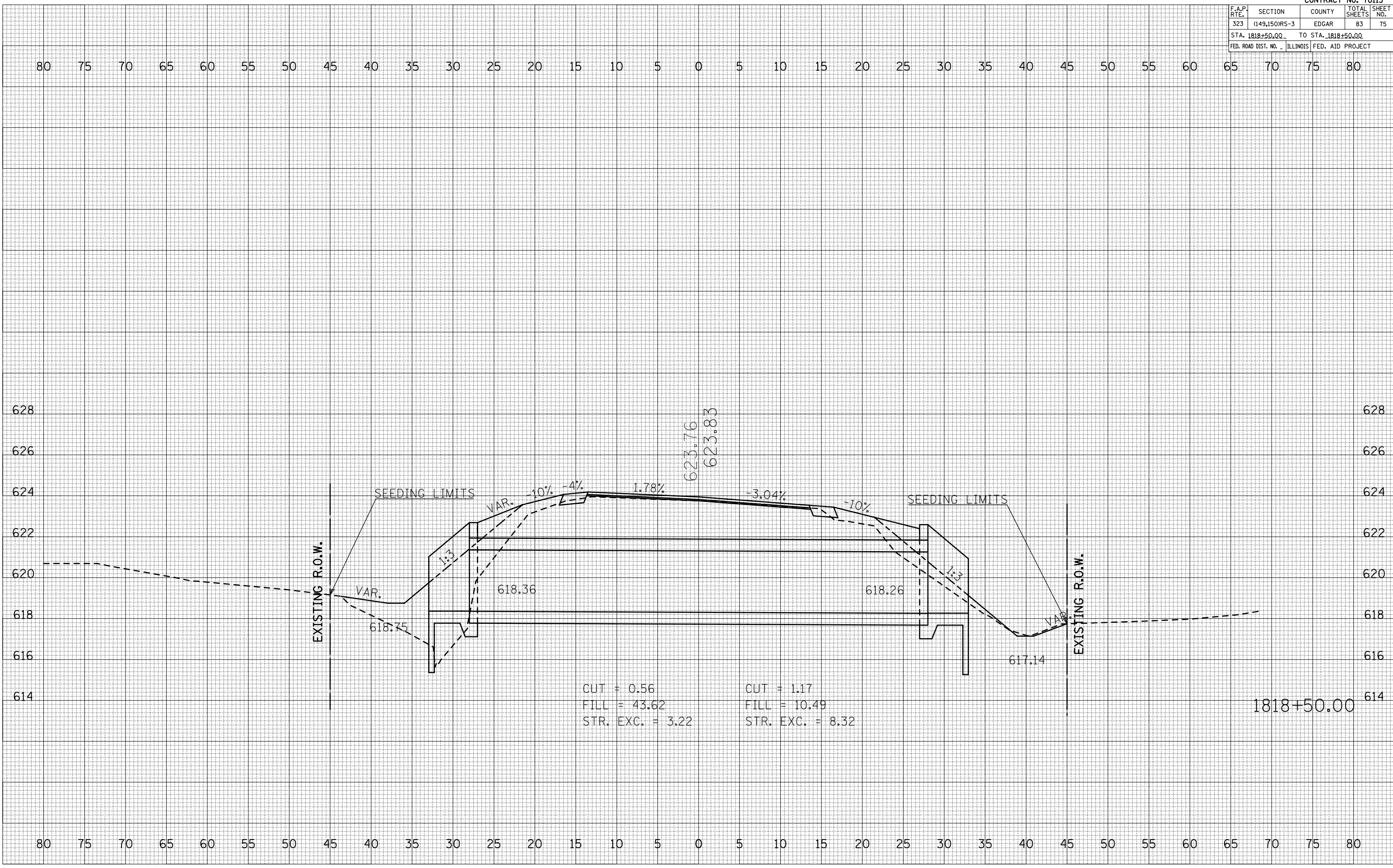
BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

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628 626 624 622 620 618 616 614

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

1818+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	76
STA. 1818+51.00 TO STA. 1818+51.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY	DATE

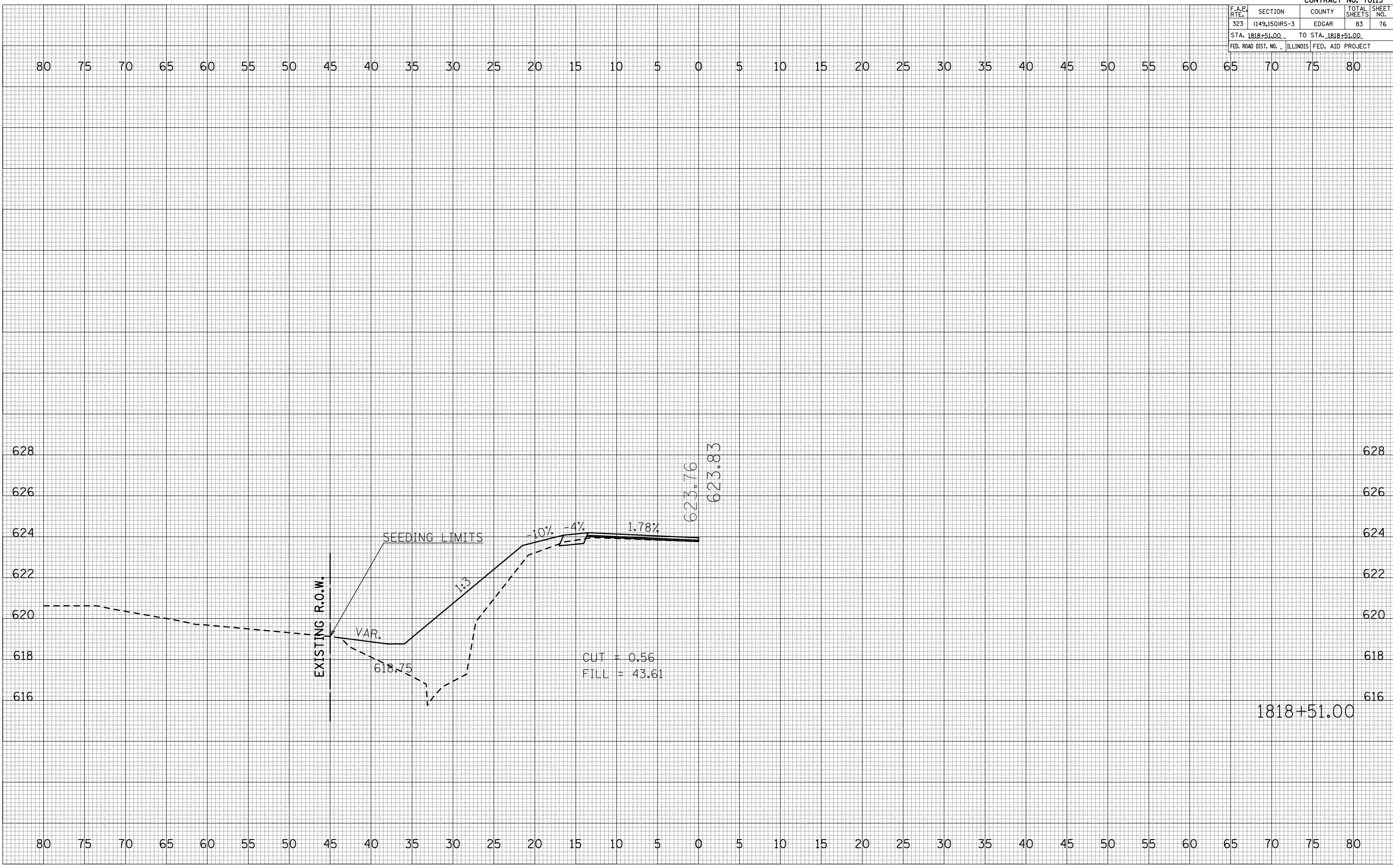
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BY	DATE

NO.	AREAS CHECKED

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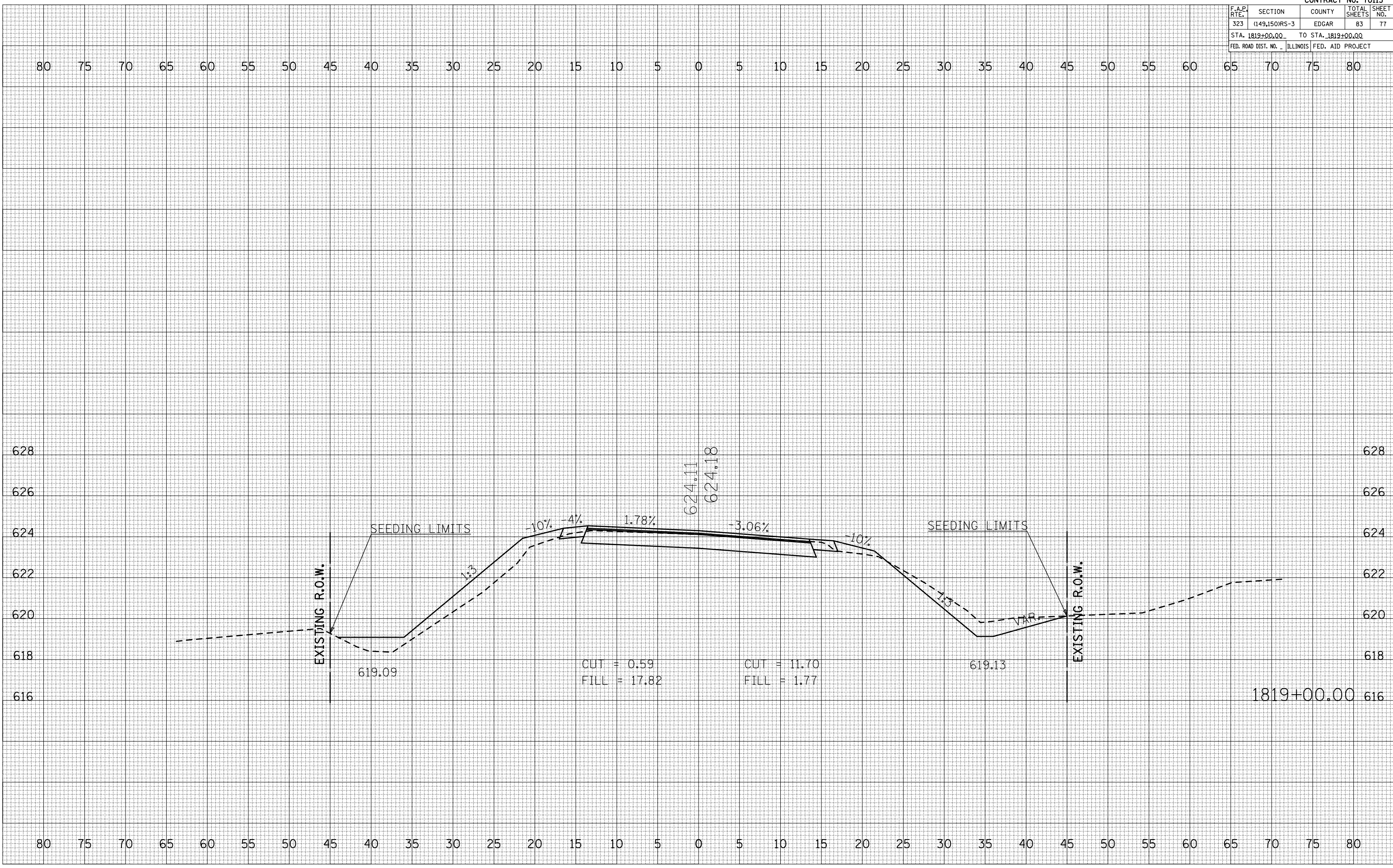


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	77
STA. 1819+00.00 TO STA. 1819+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	BY

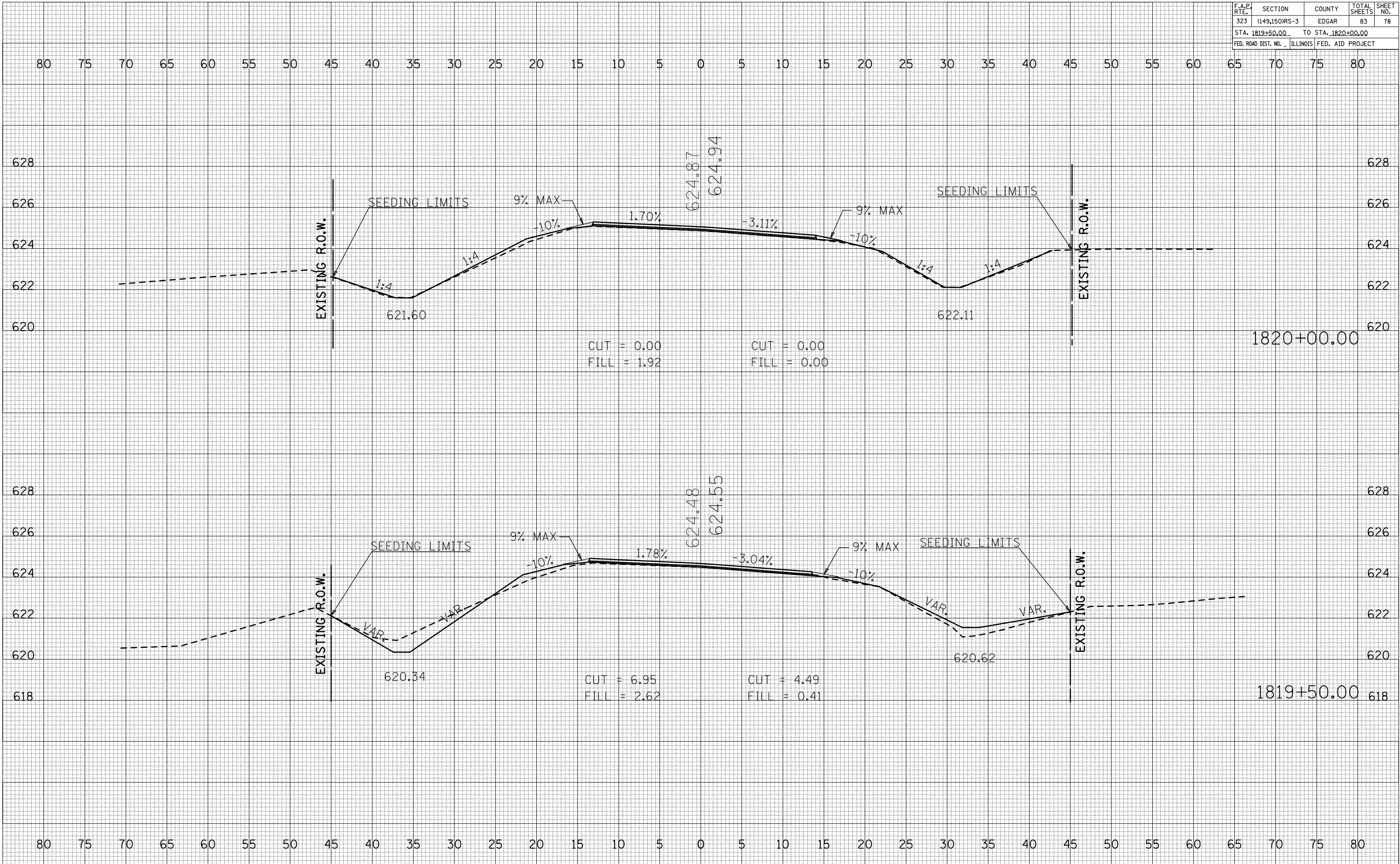
DATE	BY

ORIGINAL SURVEY PLOTTED AREAS CHECKED
 FINAL SURVEY PLOTTED AREAS CHECKED
 SURVEYED PLOTTED AREAS CHECKED
 NOTE BOOK NO.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	78
STA. 1819+50.00 TO STA. 1820+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

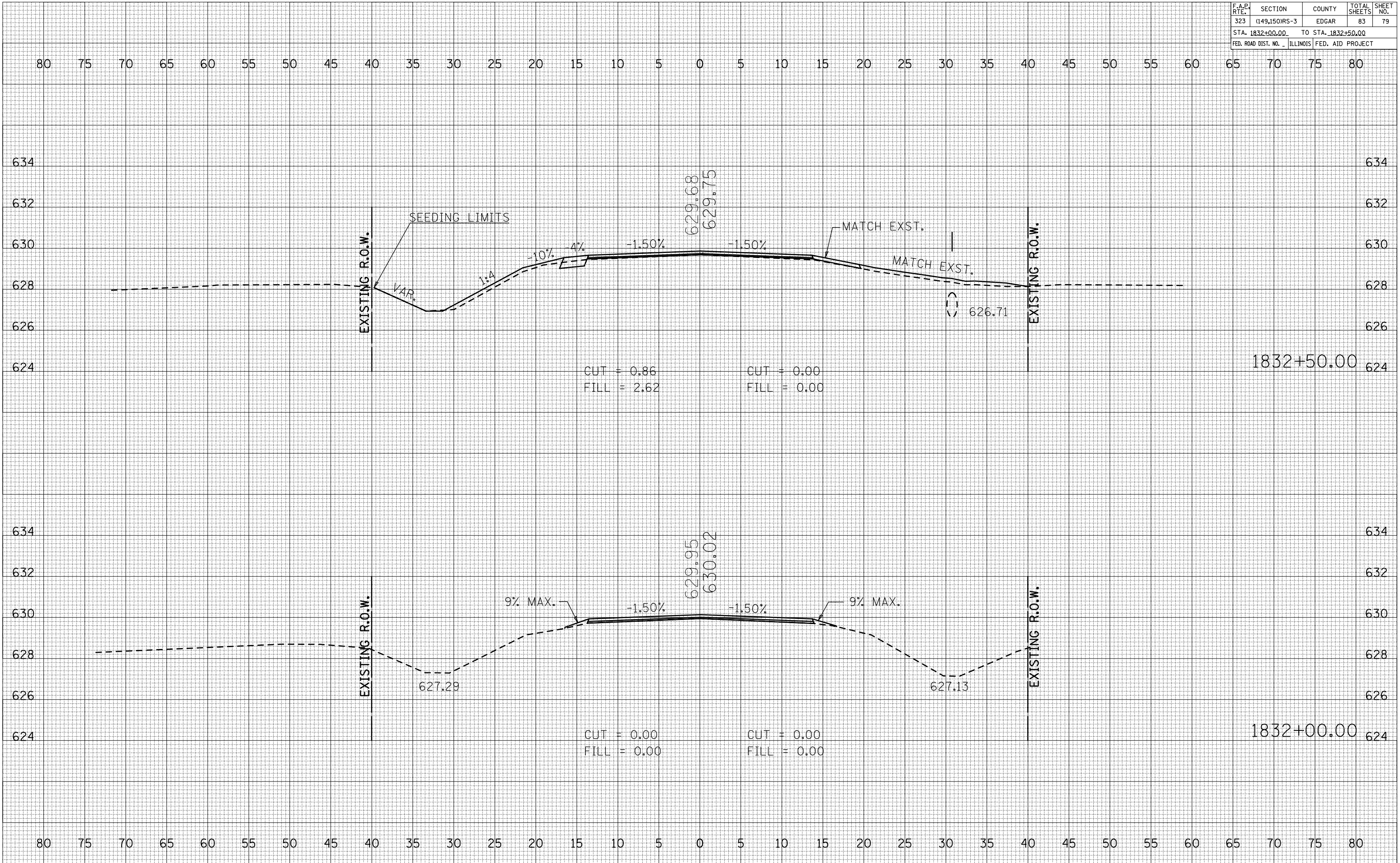


BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE = 4/12/09
 FILE NAME = I:\PROJECTS\1819+50 TO 1820+00\1819+50.dwg
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 USER NAME = shw-er-jm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(149,150)RS-3	EDGAR	83	79
STA. 1832+00.00 TO STA. 1832+50.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

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

PLOT DATE = 4/12/09
 FILE NAME = 1832+00.00 TO 1832+50.00
 PLOT SCALE = 1/8" = 100'
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