

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	1
STA.		TO STA.		
FED. ROAD DIST. NO.		CLASS	FED. AID PROJECT	

INDEX OF SHEETS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

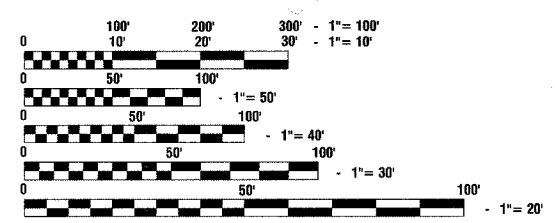
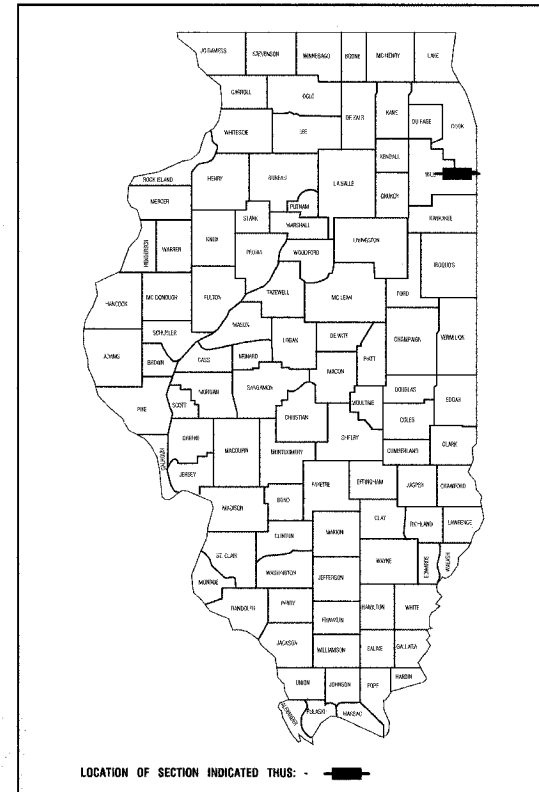
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

STATE STANDARDS

00001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401	METAL END SECTION FOR PIPE CULVERTS
542606	REINFORCED CONCRETE PIPE TEE
602001	CATCH BASINS, TYPE A
602301	INLET, TYPE A
602401	MANHOLE, TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701	CAST IRON STEPS
604001-02	FRAME AND LIDS, TYPE 1
604091-01	FRAME AND GRATE, TYPE 24
606001-02	CONCRETE CURB & COMBINATION CONCRETE CURB & GUTTER
701501-03	URBAN LANE CLOSURE, 2-L, 2-W, UNDIVIDED
702001-05	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS, RAISED REFLECTIVE PAVEMENT MARKERS
701326-02	LANE CLOSURE 2L, 2W PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH

SCALES
 PLAN - 1"=50'
 PROFILE HORIZ. - 1"=50'
 PROFILE VERT. - 1"=5'
 CROSS SECTIONS - 1"=10'

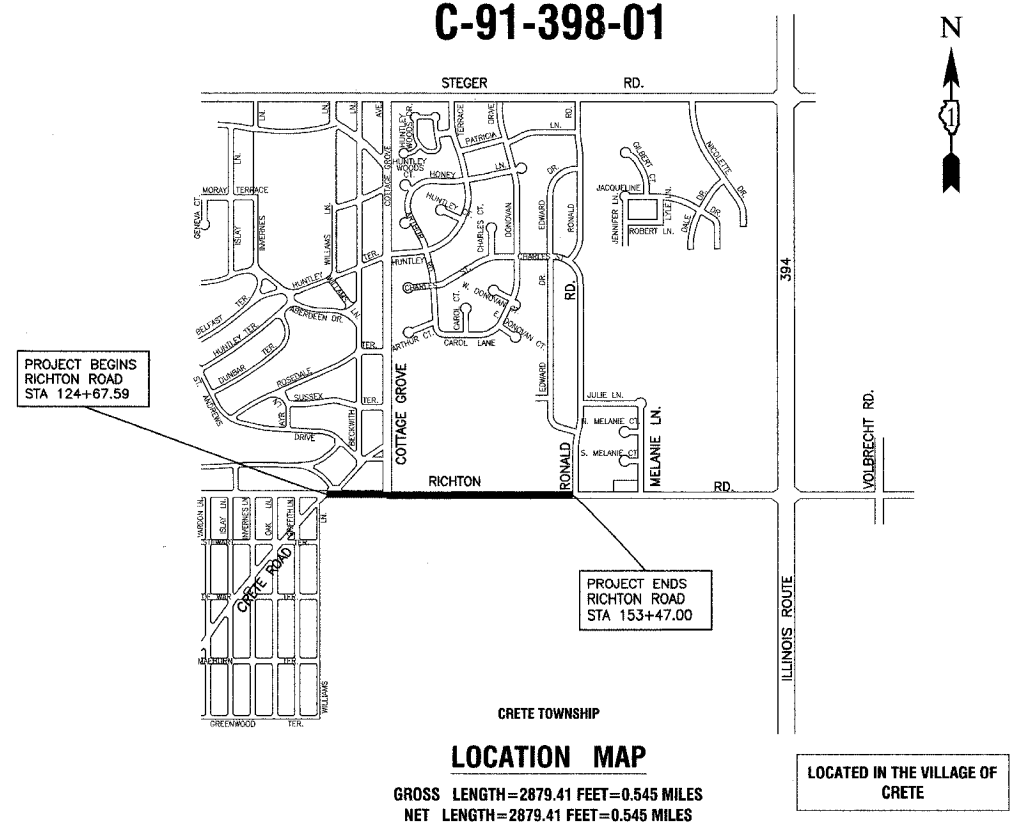
**F.A.U. ROUTE 1636 (RIGHTON ROAD)
(CRETE ROAD TO RONALD ROAD)
RECONSTRUCTION
PROJECT: M-HPD-0256(003)
M.F.T. SECTION NO.: 92-00037-03-PV
VILLAGE OF CRETE
WILL COUNTY
C-91-398-01**



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

CONTRACT NO. 83680



DESIGN DESIGNATION - 382 (2022) - URBAN COLLECTOR - (BIT. 20)

RIGHTON ROAD: DESIGN PERIOD 20YR CLASS II STREET
DESIGN SPEED LIMIT - 35 MPH

1996 ADT - 1800	IBR = 2.9
2008 ADT - 2315	PV = 2,125
	S _u = 76
	M _u = 109
	TF = 0.41
	D _{t req} = 3.70
	D _{t prov} = 3.99

POSTED SPEED LIMIT - 35 MPH

THE PROPOSED IMPROVEMENT CONSISTS OF ROADWAY RECONSTRUCTION, STORM SEWERS, LANDSCAPING AND APPURTENANT WORK.

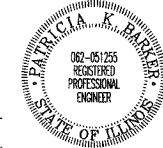
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 2-14-03 2003
[Signature] LOCAL AGENCY OFFICIAL

PASSED February 20, 2003
[Signature] DISTRICT ENGINEER OF LOCAL ROADS & STREETS

PASSED February 20, 2003
[Signature] DISTRICT ENGINEER

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:
[Signature]
2-17-2003



FEDERAL AID DESIGN ENGINEER: MAZHAR KHAN 847-705-4179

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ALINDS	FED. AID PROJECT		

83680

GENERAL NOTES

1. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
2. ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. DRAINAGE STRUCTURE ELEVATIONS: GRADES OF SEWER LINES WERE DETERMINED FROM AVAILABLE PLANS AND SURVEYS. ACCORDINGLY, AS DIRECTED BY THE ENGINEER, THE INVERTS OF THE PROPOSED DRAINAGE WILL BE REVISED TO MEET EXISTING FIELD CONDITIONS.
4. THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS.
5. HALF TRAPS TO BE OMITTED IN CATCH BASINS.
6. FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
7. WHEN, IN THE CONSTRUCTION OPERATION, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH DAY BY THE CONTRACTOR AT HIS EXPENSE. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
8. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS & SEWERS AND DISCHARGE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY SEWER CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
9. THE CAST IRON FRAMES AND COVERS OF FILLED, ABANDONED OR REMOVED MANHOLES, INLETS AND CATCH BASINS OR THOSE FRAMES AND COVERS UPON STRUCTURES RECEIVING NEW FRAMES AND COVERS SHALL BE STOCKPILED WITHIN THE RIGHT-OF-WAY, AS DIRECTED BY THE ENGINEER, AND PICKED UP BY THE VILLAGE.
10. THE APPROXIMATE LOCATION OF KNOWN PUBLIC UTILITIES ARE SHOWN ON THE PLANS. HOWEVER, THE DEPARTMENT DOES NOT GUARANTEE ITS ACCURACY. PRIOR TO COMMENCING OPERATIONS ON THE PROJECT WHICH MAY IN ANY WAY CREATE THE POSSIBILITY OF INVOLVEMENT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE FIRM (OR VILLAGE) INVOLVED. ADJUSTMENT OF ALL PUBLIC UTILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT WILL BE DONE BY THE RESPECTIVE OWNERS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCE CAUSED BY THESE ADJUSTMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATION BEFORE STARTING CONSTRUCTION OPERATIONS.
11. ALL LATERAL STORM SEWERS FROM CATCH BASINS OR INLETS TO MANHOLES OR CATCH BASINS WILL BE LAID AT A MINIMUM 1% GRADE UNLESS OTHERWISE NOTED ON THE PLANS. STORM SEWERS SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY.
12. ALL TRENCHES WITHIN 2 FEET OF PROPOSED PAVEMENT, DRIVEWAYS, AND SIDEWALKS SHALL BE BACKFILLED WITH TRENCH BACKFILL ONLY.
13. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 SHALL BE INSTALLED WITH A THICKNESS EQUAL TO TEN INCHES (10").
14. THE CONTRACTOR SHALL PROTECT ALL TREES WITHIN AND ADJACENT TO THE CONSTRUCTION SITE DURING THE CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS. THOSE TREES TO BE REMOVED AS SHOWN IN THE PLANS SHALL BE DONE IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS.
15. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
16. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
17. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE.
18. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED. (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL).
19. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
20. ALL STORM SEWERS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED WITH RUBBER GASKETS IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED THE UNIT PRICE BID FOR STORM SEWERS AS SPECIFIED.
21. ALL PIPE CONNECTIONS BETWEEN THE LATERAL SEWER LINES SHALL BE MADE BY MEANS OF A PRECAST WYE OR TEE SECTION. THIS SHALL NOT BE PAID FOR INDEPENDENTLY BUT SHALL BE CONSIDERED INCIDENTAL TO THE MAIN DRAIN STORM SEWER CONSTRUCTION.
22. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4150 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK. THE CONTRACTOR SHALL ALSO CONTACT ROBINSON ENGINEERING (708) 331-6700 AND THE VILLAGE OF CRETE, MR. PHIL HAMEISTER, (708) 672-5431 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
23. ALL BITUMINOUS PAVING SHALL FOLLOW DESIGNATED DRIVING LANES AS SHOWN IN STRIPING DETAILS. NO LONGITUDINAL PAVING JOINT OR SEAMS ARE ALLOWED WITHIN THE DRIVING LANES. ALL LONGITUDINAL PAVING JOINTS OR SEAMS WILL BE BETWEEN THE DRIVING LANES.
24. POROUS GRANULAR EMBANKMENT SUBGRADE HAS BEEN PROVIDED FOR LOCATIONS WHERE SOILS TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SURGED STABILITY MANUAL). IF UNSTABLE AND/OR UNSUITABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.U. 1636 RICHTON ROAD

GENERAL NOTES

SCALE: VERT. NA
HORIZ. NA
DATE 02-17-03

DRAWN BY EC
CHECKED BY PKB

ROBINSON ENGINEERING, LTD.
CONSULTING REGISTERED PROFESSIONAL ENGINEERS
AND PROFESSIONAL LAND SURVEYORS
17000 SOUTH PARK AVE. SOUTH HOLLAND, ILLINOIS 60473-0886 65313-NOTE-05

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL.	33	3
STA.		TO STA.		
FED. ROAD DIST. NO.		LRMS	FED. AID PROJECT	

83680

SUMMARY OF QUANTITIES							PAVEMENT	MARKINGS	SIGNS	LANDSCAPE
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	STU QUAN	HIGH PRIORITY	CONSTRUCTION TYPE CODE			
							1000-2A	SFTY-1D	Y002-1C	Y003
	Z3000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100					100
	X4073081	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH) SUPERPAVE, 10"	SQ YD	8515	8515		8515			
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	337	337		337			
	20100410	TREE REMOVAL, SPECIAL (OVER 15 UNITS DIAMETER)	UNIT	223	223		223			
	20101000	TEMPORARY FENCE	FOOT	200	200		200			
	20200100	EARTH EXCAVATION	CU YD	2613	2613		2613			
	20400800	FURNISHED EXCAVATION	CU YD	417	417		417			
	XX004553	POROUS GRANULAR EMBANKMENT, SUBGRADE	TON	300	300		300			
	20800150	TRENCH BACKFILL	CU YD	990	990		990			
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2115	2115		2115			
*	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	10728	10728					10728
*	25000210	SEEDING, CLASS 2A	ACRE	1.2	1.2					1.2
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	108	108					108
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	108	108					108
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	108	108					108
*	25100115	MULCH, METHOD 2	ACRE	1.2	1.2					1.2
*	25100630	EROSION CONTROL BLANKET	SQ YD	1240	1240					1240
*	25200110	SODDING, SALT TOLERANT	SQ YD	5900	5900					5900
*	25200200	SUPPLEMENTAL WATERING	UNIT	75	75					75
	28000400	PERIMETER EROSION BARRIER	FOOT	2850	2850		2850			
	28000500	INLET AND PIPE PROTECTION	EACH	14	14		14			
	28100107	STONE RIPRAP, CLASS A4	SQ YD	45	45		45			
	28200200	FILTER FABRIC	SQ YD	45	45		45			
	31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	10129		10129	10129			
	35800100	PREPARATION OF BASE	SQ YD	8500	8500		8500			
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2000	2000		2000			
	40600300	AGGREGATE (PRIME COAT)	TON	37	37		37			
	44000100	PAVEMENT REMOVAL	SQ YD	7116		7116	7116			
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	567	567		567			
	42300100	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 5 INCH	SQ YD	92	92		92			
	50105210	REMOVE EXISTING CULVERTS	FOOT	315	315		315			
	54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	107	107		107			
	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	1		1			
	54247150	GRATING FOR CONCRETE FLARED END SECTION 30"	EACH	1	1		1			
	550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	338		338	338			
	550A2360	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	FOOT	225		225	225			
	550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	501		501	501			
	550A2540	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	FOOT	200		200	200			
	550A2560	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24"	FOOT	1129		1129	1129			
	55101200	STORM SEWER REMOVAL 24"	FOOT	56	56		56			
	60201340	CATCH BASINS, TYPE A, 4' - DIAMETER, TYPE 24 FRAME AND GRATE	EACH	14		14	14			
	60221100	MANHOLES, TYPE A, 5' - DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7		7	7			
	60223100	MANHOLES, TYPE A, SPECIAL, 5' - DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2		2			
	550A2380	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1 30"	FOOT	305		305	305			
	550A2580	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 2 30"	FOOT	200		200	200			

* - INDICATES SPECIALTY ITEMS

REVISIONS	
NAME	DATE
FUNDING	04-28-03
REV. EASEMENT	09-14-04

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 1636 RICHTON ROAD
 SUMMARY OF QUANTITIES
 SCALE: VERT. NA
 HORIZ. NA
 DATE 03-07-08
 DRAWN BY EC
 CHECKED BY PKB

F.A.U. NO.	SECTION	COUNTY	TASK SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	4
STA.	TO STA.			
FED. ROAD DIST. NO.	BLK/CR.	FED. AID PROJECT		

83680

SUMMARY OF QUANTITIES						PAVEMENT	MARKINGS	SIGNS	LANDSCAPE	
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	STU QUAN	HIGH PRIORITY	CONSTRUCTION TYPE CODE			
							1000-2A	SFTY-1D	Y002-1C	Y003
	54215550	METAL END SECTIONS 15"	EACH	4	4		4			
	60207605	CATCH BASINS, TYPE C, TYPE B GRATE	EACH	1		1	1			
	60218400	MANHOLES, TYPE A, 4' - DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3		3	3			
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	11	11		11			
	60255500	MANHOLES TO BE ADJUSTED	EACH	1	1		1			
	60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2		2			
	XX005463	ADJUST FIRE HYDRANT WITH AUXILIARY VALVE	EACH	6	6		6			
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	5795		5795	5795			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8		8			
	70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1		1			
*	72000100	SIGN PANEL - TYPE 1	SQ FT	45	45				45	
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	5	5				5	
*	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	20	20				20	
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	30	30				30	
*	78000200	THERMOPLASTIC PAVEMENT MARKING- LINE 4"	FOOT	5760	5760			5760		
*	78000650	THERMOPLASTIC PAVEMENT MARKING- LINE 24"	FOOT	42	42			42		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	140	140			140		
	Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON	1200	1200		1200			
	Z0062450	SAWING PAVEMENT (FULL DEPTH)	FOOT	90	90		90			
	XX004352	RELOCATE MAILBOX ON EXISTING SUPPORT	EACH	9	9		9			
	XX004833	STABILIZED DRIVEWAY SUPERPAVE 7"	SQ YD	475	475		475			
Δ	Z0076600	TRAINEES	HOURL	500	500					
	67100100	MOBILIZATION	Lsum	1	1					

* - INDICATES SPECIALTY ITEMS

Δ - Y080

REVISIONS	
NAME	DATE
FUNDING	04-28-08
REV. EASEMENT	08-14-04

ILLINOIS DEPARTMENT OF TRANSPORTATION

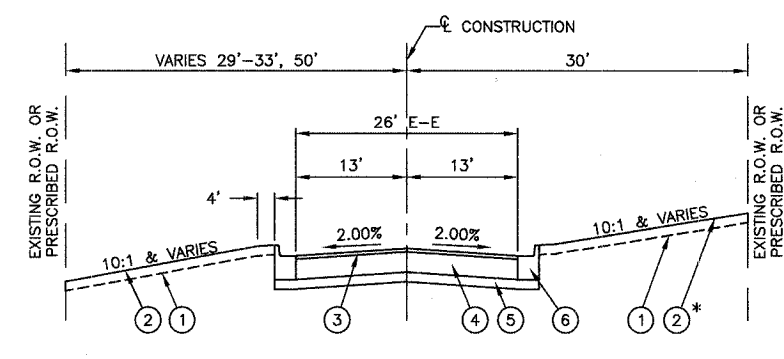
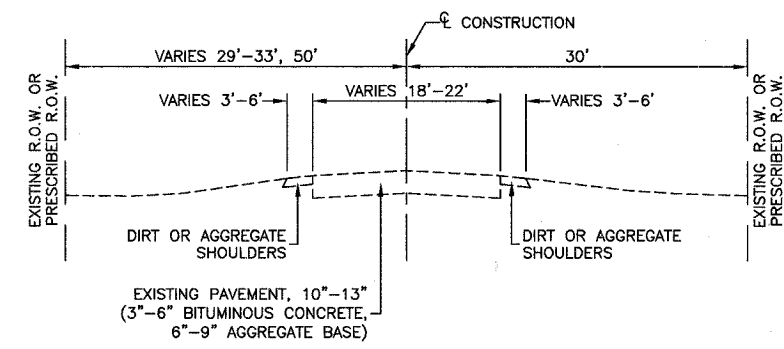
F.A.U. 1636 RICHTON ROAD

SUMMARY OF QUANTITIES

SCALE: VERT. NA
 HORIZ. NA
 DATE: 03-07-08

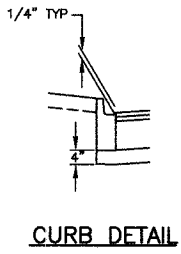
DRAWN BY: EC
 CHECKED BY: PKB

83680



* SEE LANDSCAPING AND EROSION CONTROL PLAN FOR LIMITS OF SODDING

- LEGEND**
- ① TOPSOIL FURNISH AND PLACE, 4"
 - ② SEEDING, CLASS 2A
 - ③ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 2"
 - ④ BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50 8"
 - ⑤ SUB-BASE GRANULAR MATERIAL, TYPE B 4"
 - ⑥ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24



RICHTON ROAD

1 LOCATION	2 EARTH EXCAVATION	3 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	4 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	5 EMBANKMENT	6 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
124+67 TO 131+00	1057	898	543	390	+508
131+00 TO 144+00	1188	1010	862	819	+191
144+00 TO 153+47	368	313	710	1428	-1115
TOTAL	2613	2221	2115	2637	-416

MIX SCHEDULE

MIX TYPE	AC TYPE	VOIDS	MAX RAP %
BIT. CONC. SURF. CSE., SUPERPAVE, MIX "C", N50 (BIT. CONC. PAVT (FULL-DEPTH) SUPERPAVE, 10")	PG 64-22	4% @ 50 GYR	15%
BIT. CONC. BINDER CSE., SUPERPAVE, IL-19.0, N50 (BIT. CONC. PAVT (FULL-DEPTH) SUPERPAVE, 10")	PG 58-22	4% @ 50 GYR	25%
BIT. CONC. SURF. CSE., SUPERPAVE, MIX "C", N50 (STABILIZED DRIVEWAYS, SUPERPAVE, 7")	PG 64-22	4% @ 50 GYR	15%
BIT. BASE CSE., SUPERPAVE, 5" (STABILIZED DRIVEWAYS, SUPERPAVE, 7")	PG 58-22	2% @ 50 GYR	50%
BIT. BASE CSE., SUPERPAVE, 8" (TEMPORARY PAVEMENT, 8")	PG 58-22	2% @ 50 GYR	50%

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.U. 1636 RICHTON ROAD

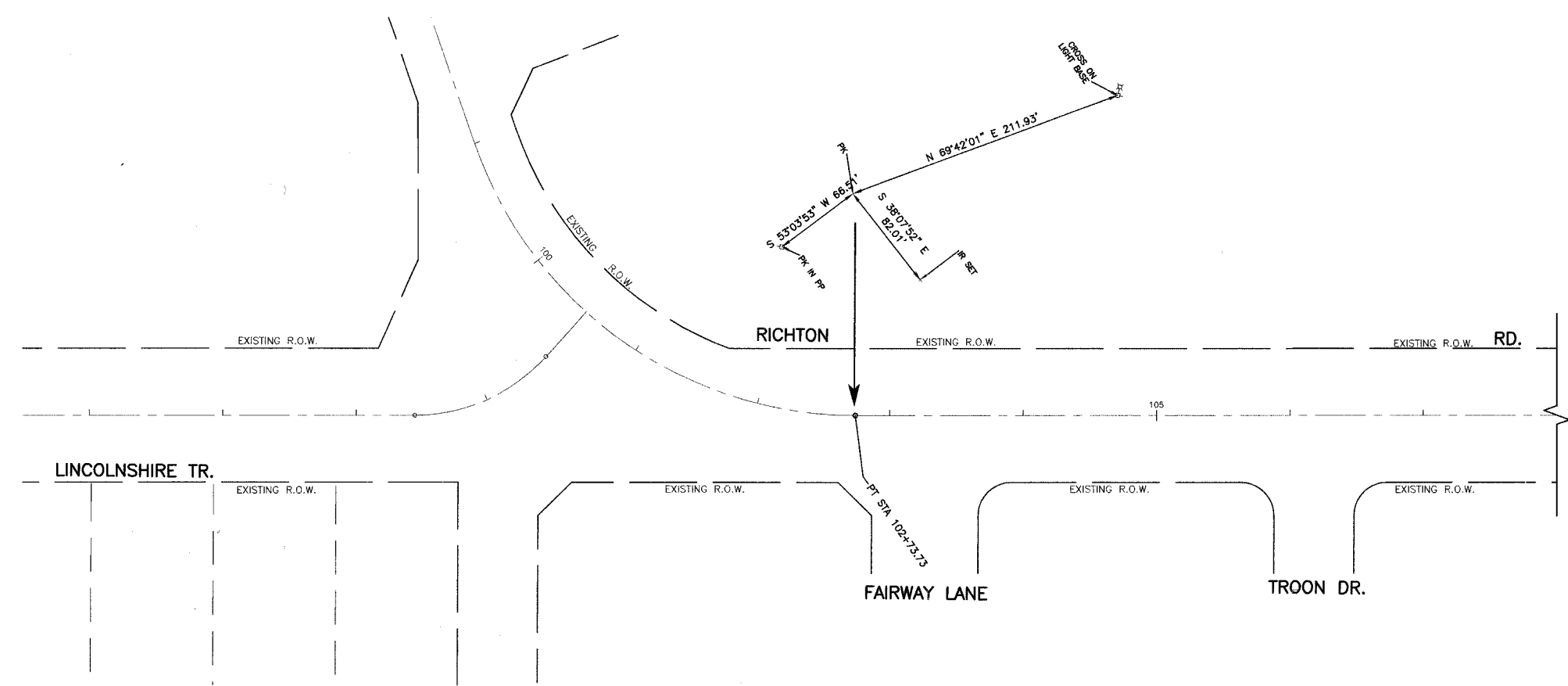
TYPICAL CROSS SECTIONS

SCALE: VERT. NA
 HORIZ. NA
 DATE 03-07-03

DRAWN BY EC
 CHECKED BY PKB

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

83680



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 ALIGNMENT AND TIES
 RICHTON ROAD
 STA 98+00 TO STA 108+00

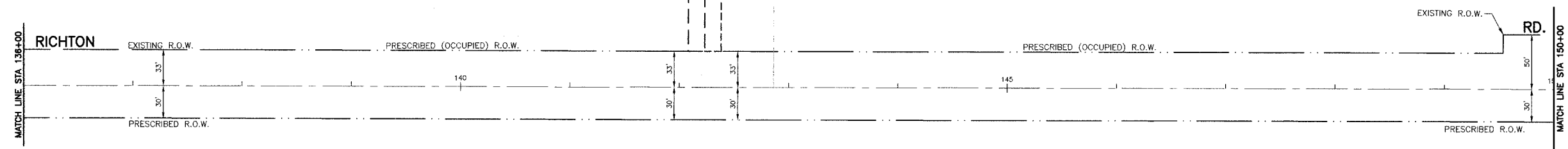
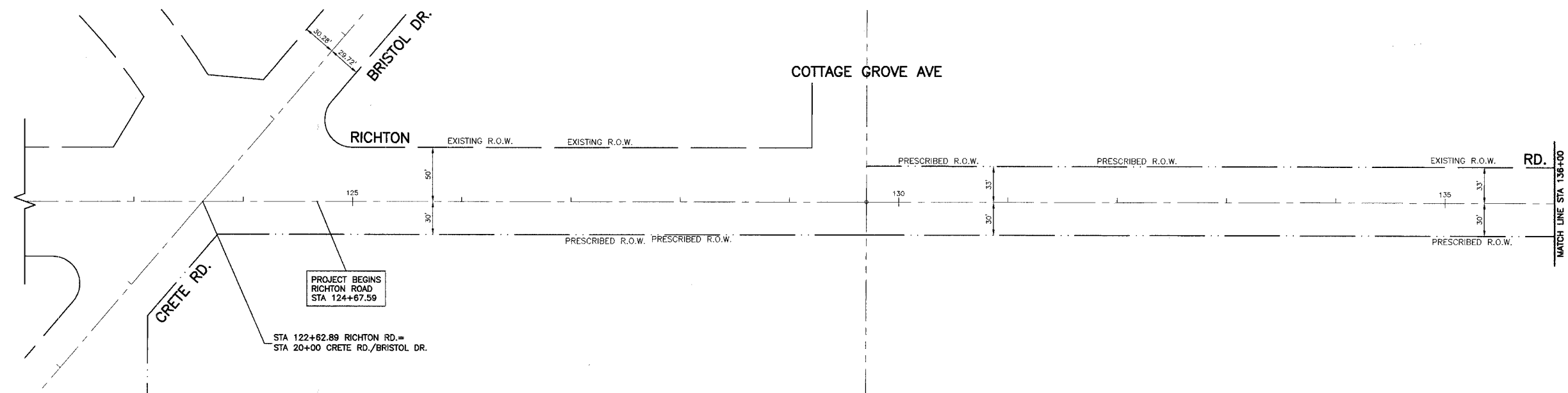
SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 02-17-03

DRAWN BY KR
 CHECKED BY PKB

ROBINSON ENGINEERING, LTD.
 CONSULTING REGISTERED PROFESSIONAL ENGINEERS
 AND PROFESSIONAL LAND SURVEYORS
 357 WEST TROM STREET SOUTH HOLLAND, ILLINOIS 60477-0398 95513-ALGN-03

FAM. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

83080

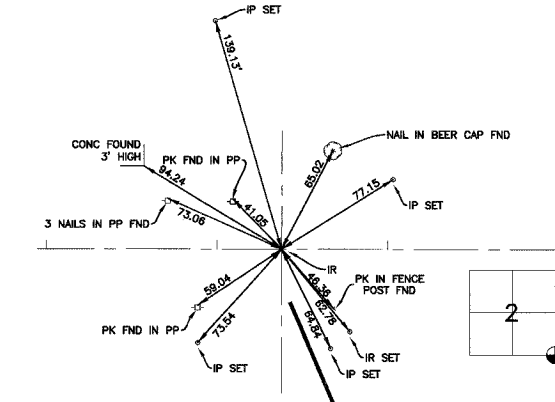
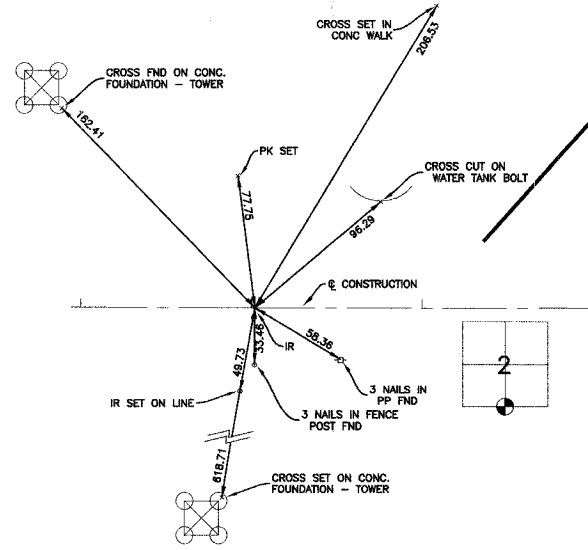
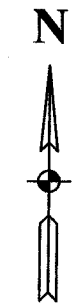
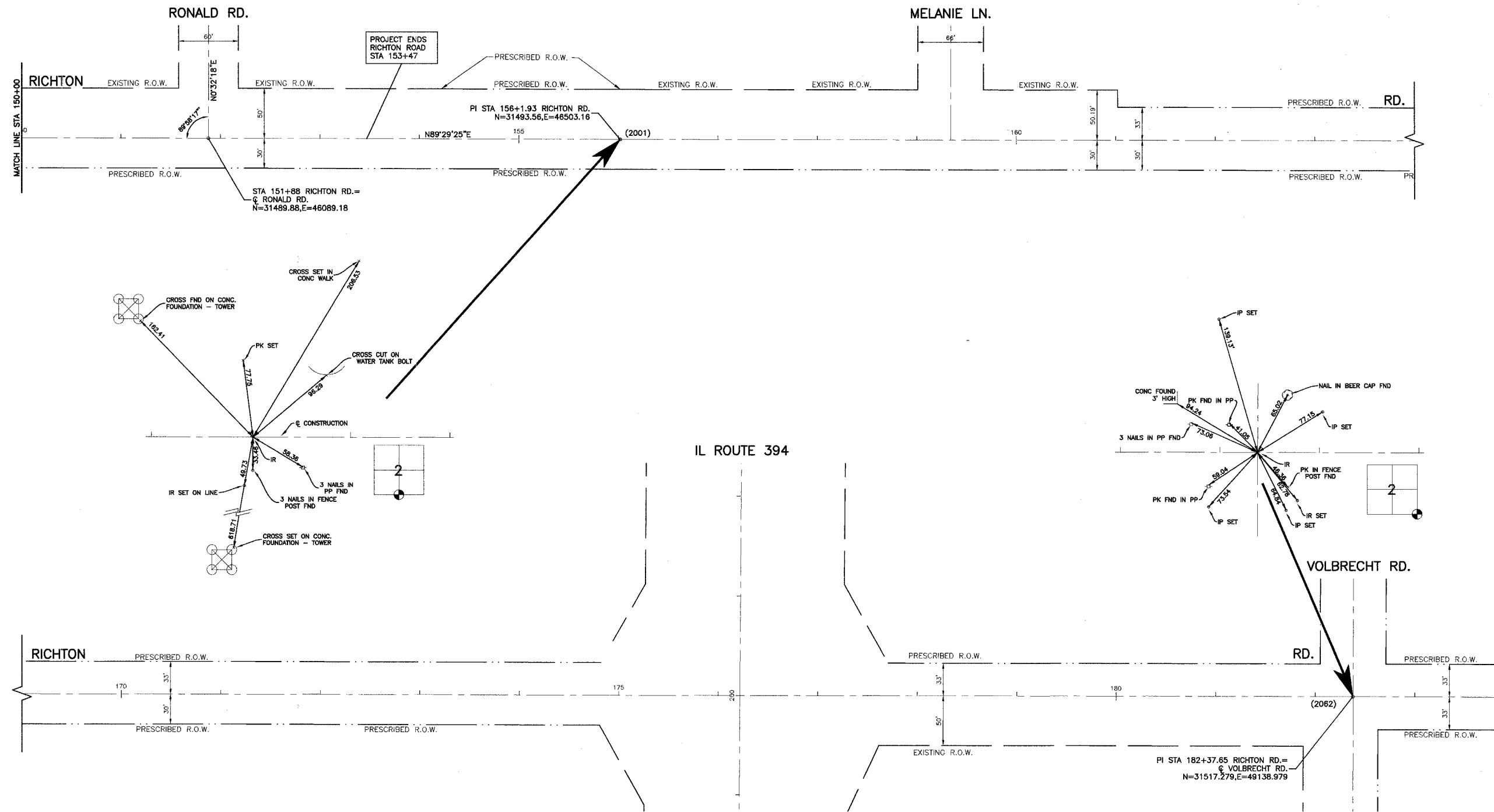


REVISIONS	
NAME	DATE
EASEMENTS	09-14-04

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 1636 RICHTON ROAD
 ALIGNMENT AND TIES
 BEGIN PROJECT TO STA 150+00
 SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB

F.A.U. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

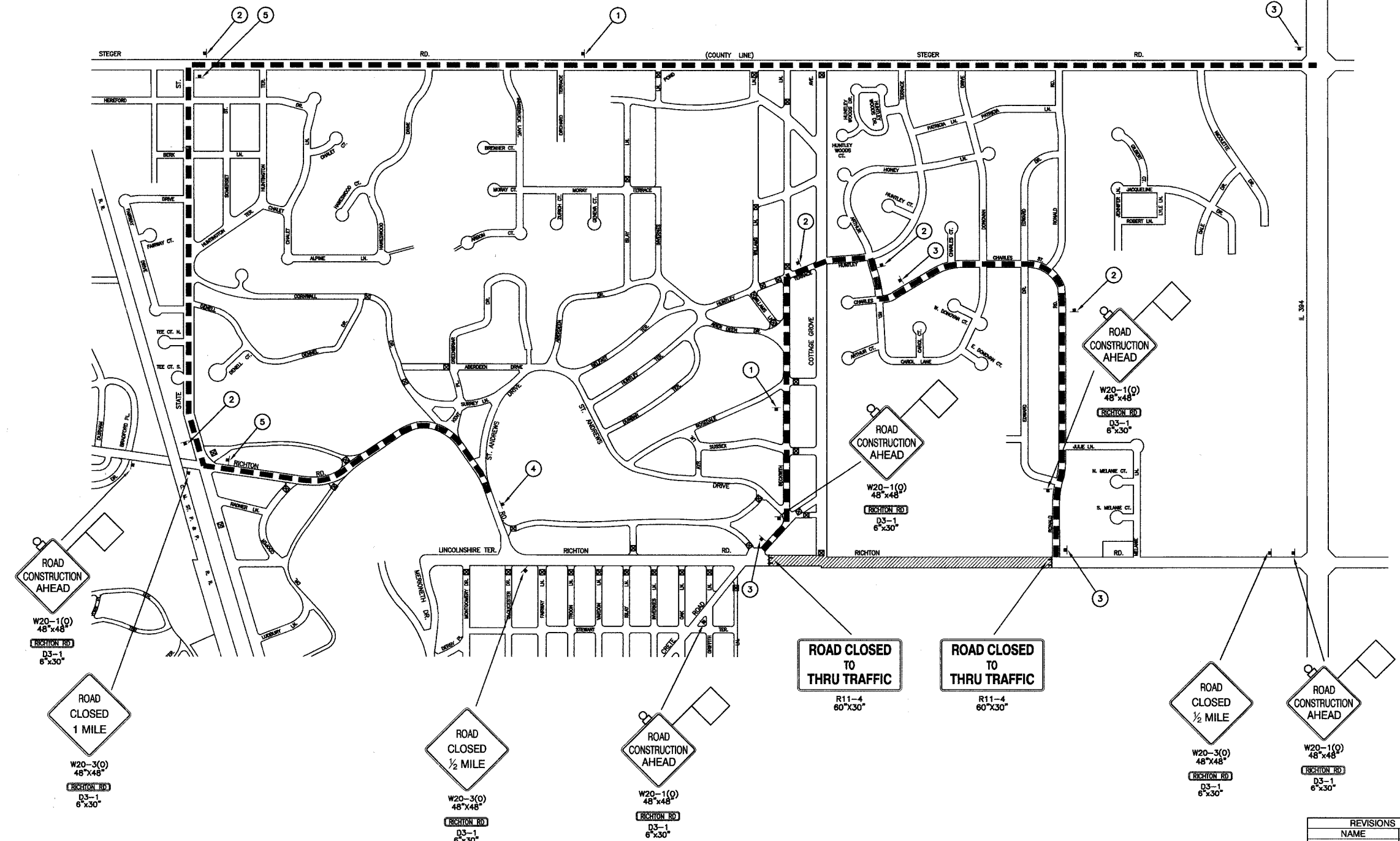
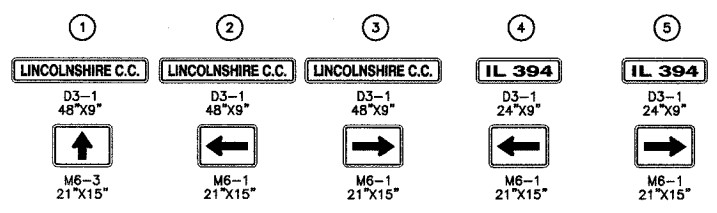
83680



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 1636 RICHTON ROAD
 ALIGNMENT AND TIES
 STA 150+00 TO END PROJECT
 SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB
 ROBINSON ENGINEERING, LTD.
 CONSULTING PROFESSIONAL ENGINEERS
 357 WEST THIRD STREET, SOUTH BLOOMING, ILLINOIS 62413-0386
 95513-ALGN-05

F.A. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	39	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT		



NOTES: SHEETS 10-16 NOT USED
 PROPOSED STORM SEWER AND STRUCTURES SHALL BE CONSTRUCTED PRIOR TO ANY PAVEMENT REMOVAL

LEGEND

- R.O.W. CORRIDOR ONLY, NO DEVELOPED ROADWAY
- CONSTRUCTION AREA
- DETOUR ROUTE
- SIGN
- TYPE III BARRICADE

REVISIONS	
NAME	DATE
DETOUR	01/31/05

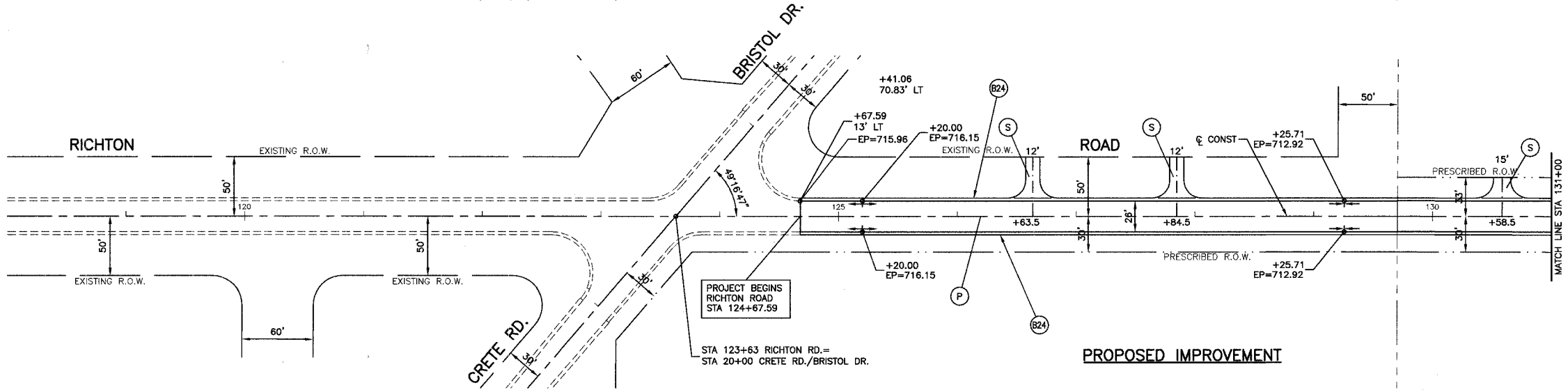
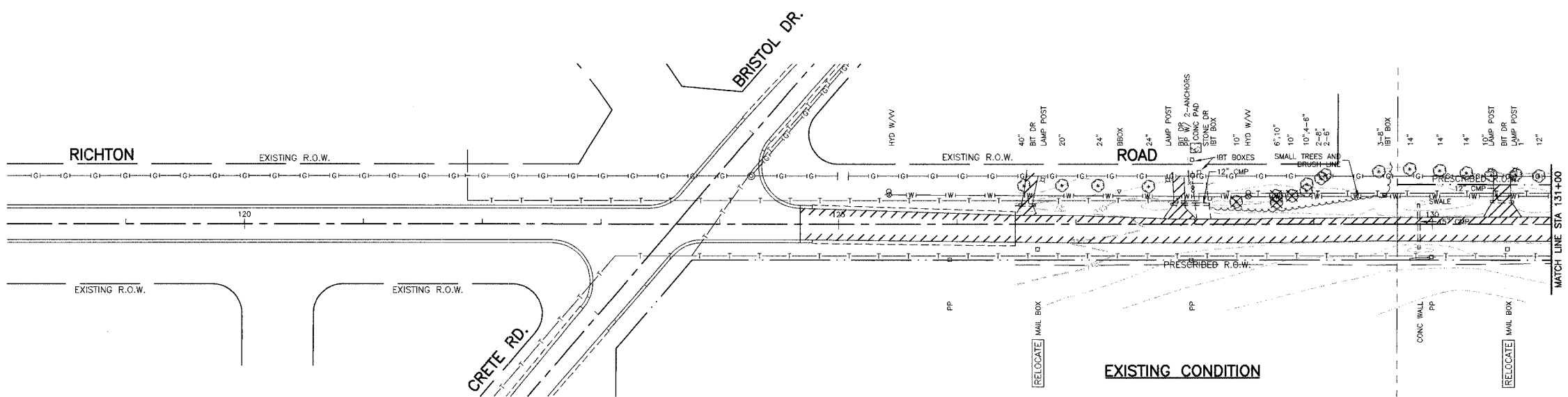
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 1636 RICHTON ROAD
 SUGGESTED TRAFFIC CONTROL

SCALE: VERT. NA
 HORIZ. NA
 DATE: 12-29-03

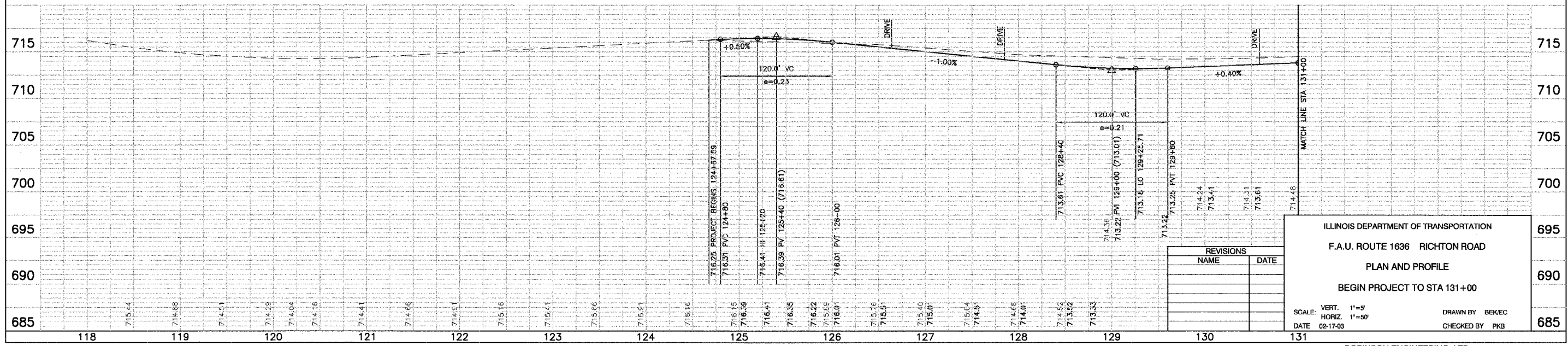
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 CHECKED BY: PKB

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

83680



- PROPOSED LEGEND**
- (P) FULL DEPTH PAVEMENT
 - (C) CONCRETE DRIVEWAY
 - (S) STABILIZED DRIVEWAY
 - (B24) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
 - (T) TRANSITION FROM TYPE B-6.24 CURB AND GUTTER TO 0" CURB HEIGHT
 - /// PAVEMENT/DRIVEWAY REMOVAL
 - ⊗ TREE TO BE REMOVED



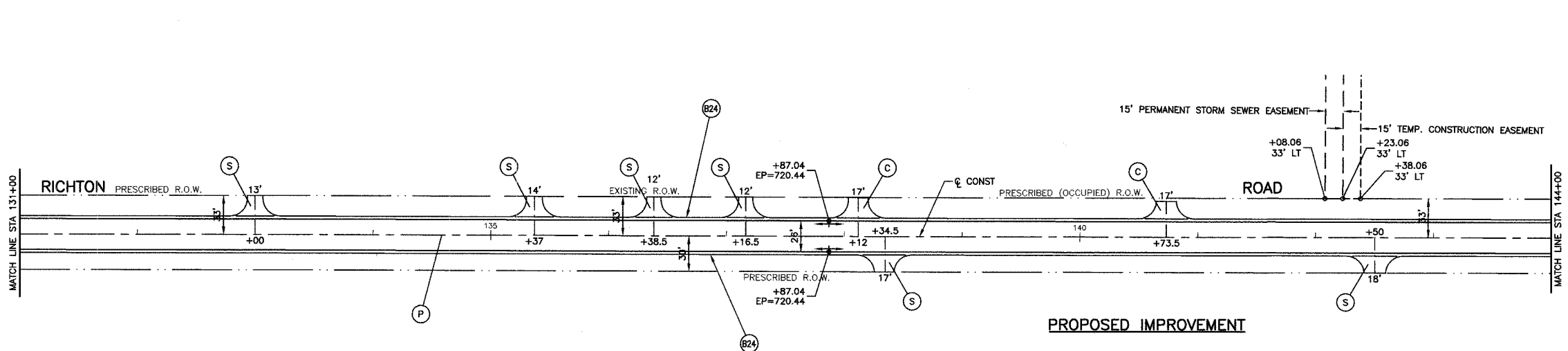
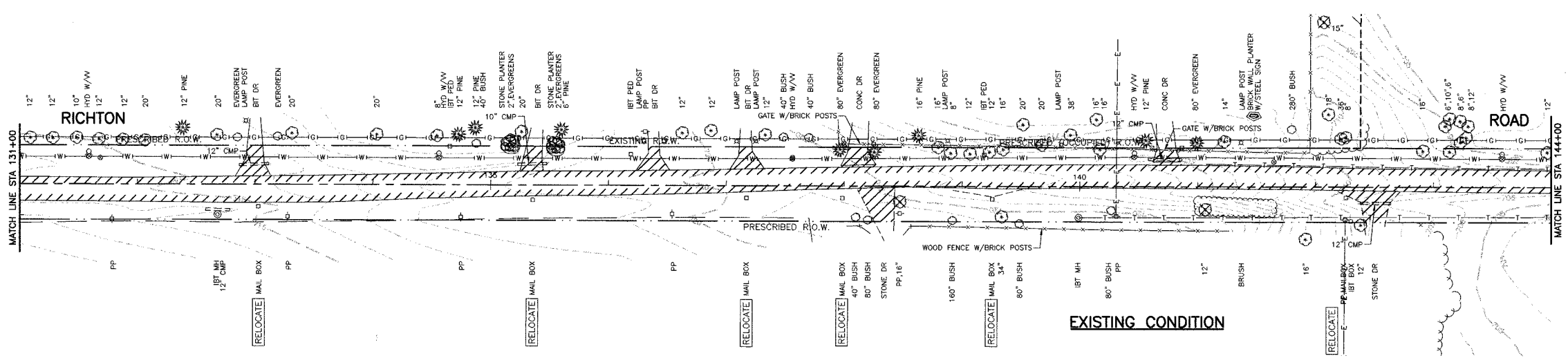
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 PLAN AND PROFILE
 BEGIN PROJECT TO STA 131+00

SCALE: VERT. 1"=5'
 HORIZ. 1"=50'
 DATE 02-17-03

DRAWN BY BEK/EC
 CHECKED BY PKB

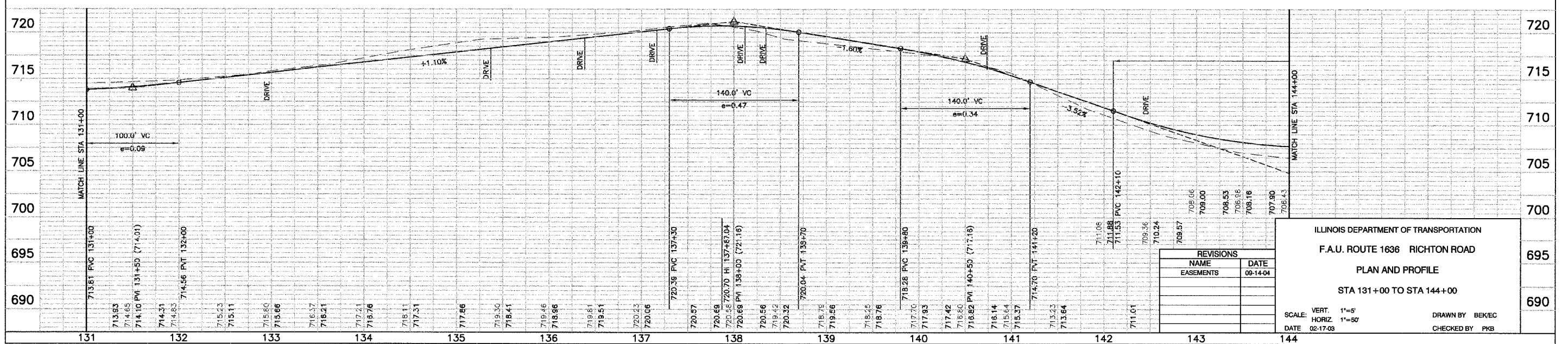
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ALINOS	FED. AID PROJECT	

83680



PROPOSED LEGEND

- (P) FULL DEPTH PAVEMENT
- (C) CONCRETE DRIVEWAY
- (S) STABILIZED DRIVEWAY
- (B24) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (T) TRANSITION FROM TYPE B-6.24 CURB AND GUTTER TO 0" CURB HEIGHT
- ////// PAVEMENT/DRIVEWAY REMOVAL
- (X) TREE TO BE REMOVED



REVISIONS	
NAME	DATE
EASEMENTS	09-14-04

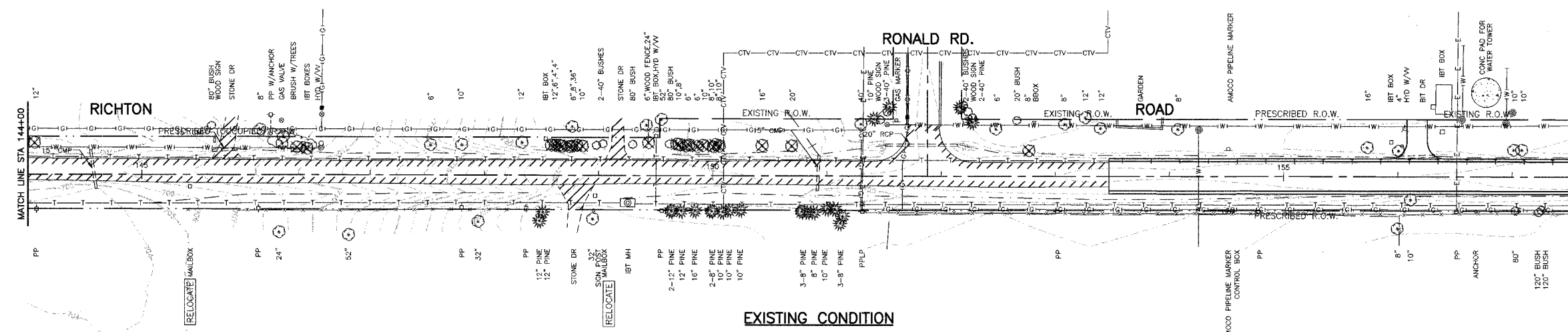
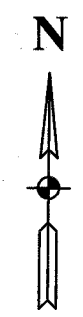
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 PLAN AND PROFILE
 STA 131+00 TO STA 144+00

SCALE: VERT. 1"=5'
 HORIZ. 1"=50'
 DATE 02-17-03

DRAWN BY BEK/EC
 CHECKED BY PKB

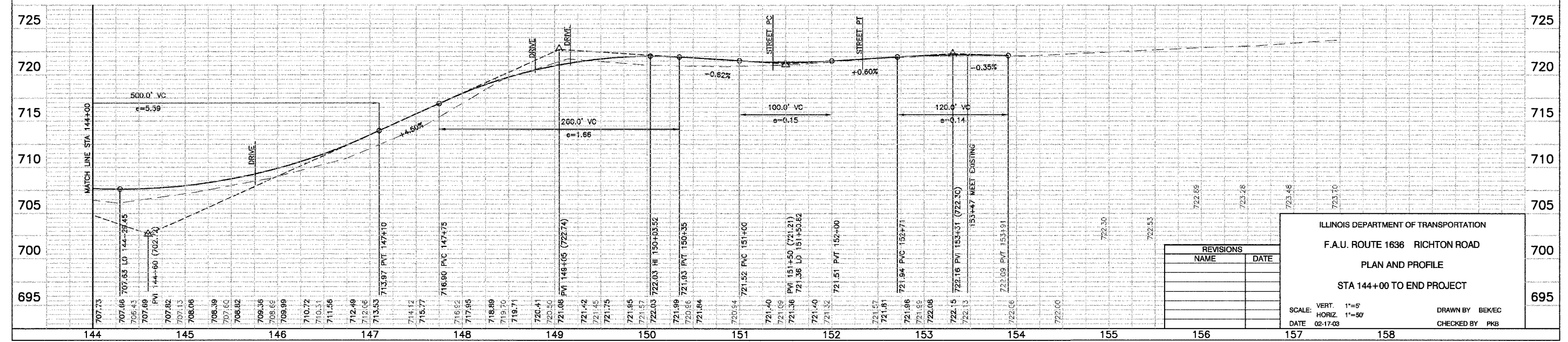
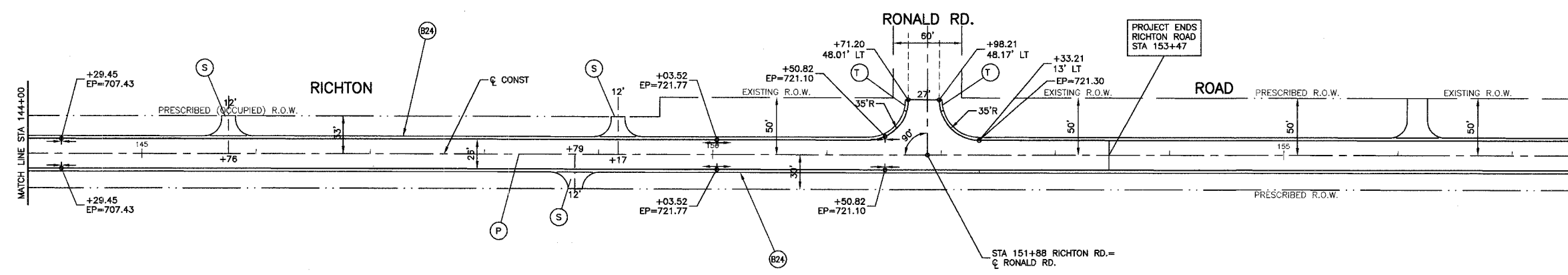
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1636	92-00037-03-PV	WILL	33	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83680



PROPOSED LEGEND

- (P) FULL DEPTH PAVEMENT
- (C) CONCRETE DRIVEWAY
- (S) STABILIZED DRIVEWAY
- (B24) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (T) TRANSITION FROM TYPE B-6.24 CURB AND GUTTER TO 0" CURB HEIGHT
- /// PAVEMENT/DRIVEWAY REMOVAL
- (X) TREE TO BE REMOVED



REVISIONS	
NAME	DATE

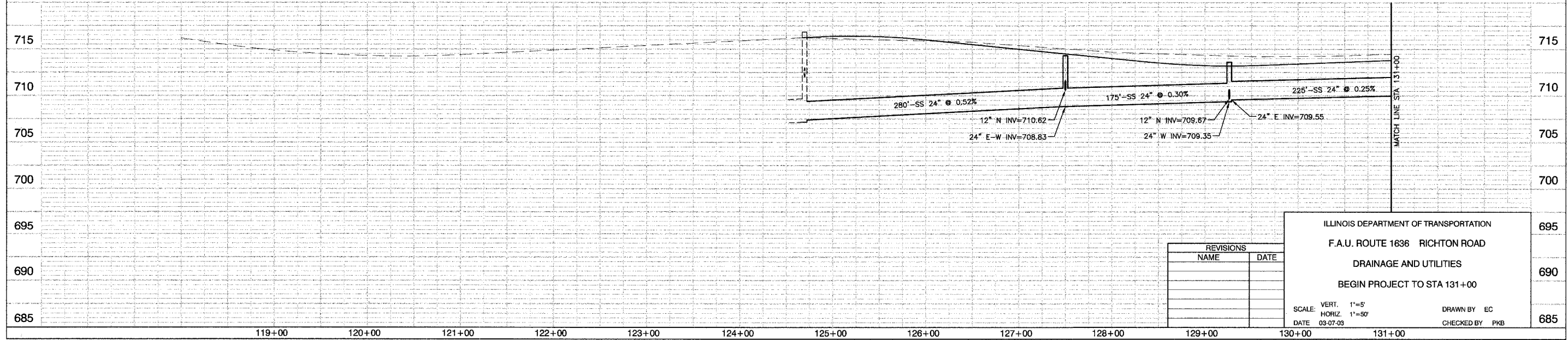
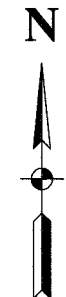
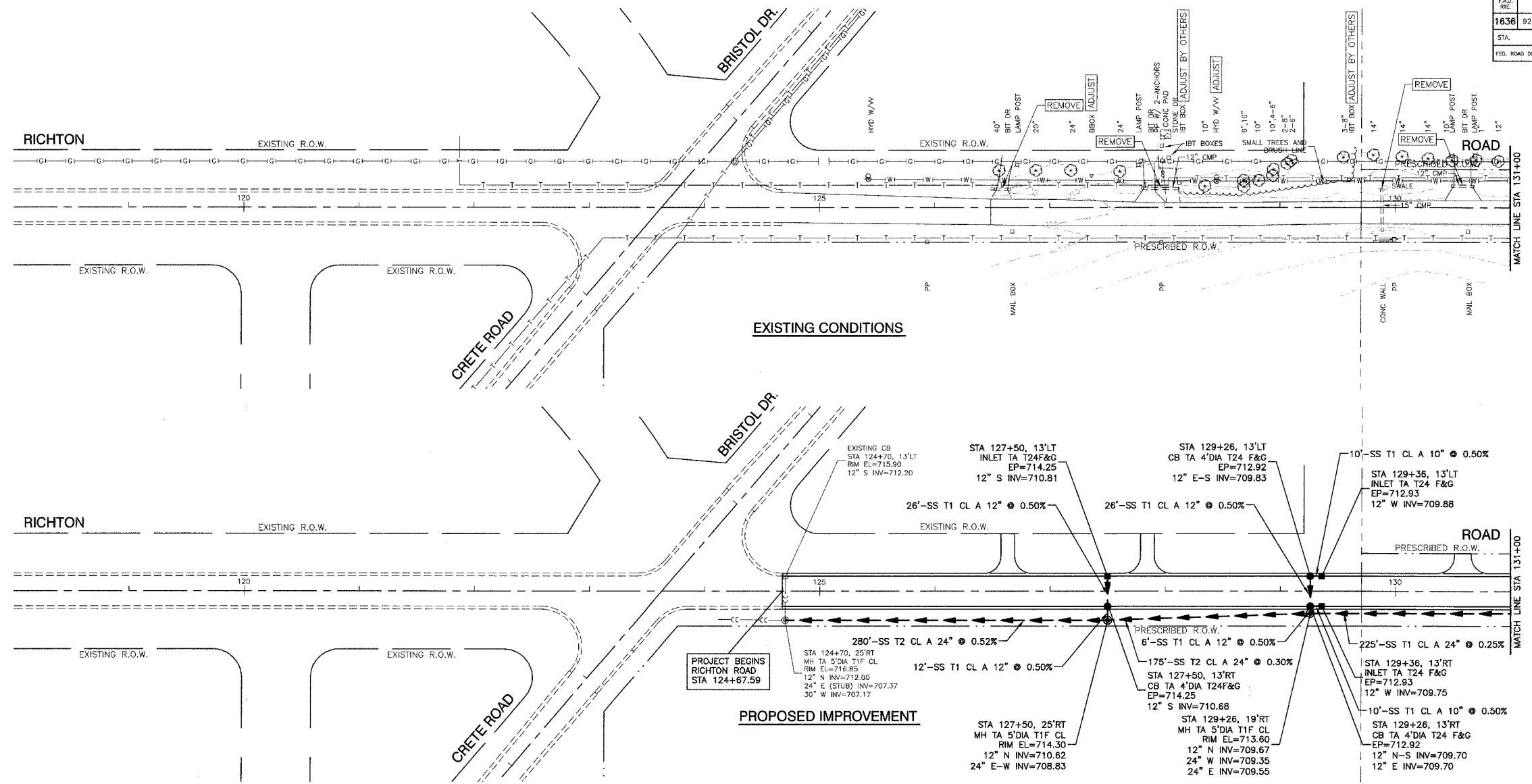
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 PLAN AND PROFILE
 STA 144+00 TO END PROJECT

SCALE: VERT. 1"=5'
 HORIZ. 1"=50'
 DATE 02-17-03

DRAWN BY BEK/EC
 CHECKED BY PKB

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ELINE	FBI. AG PROJECT		

83680



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.U. ROUTE 1636 RICHTON ROAD

DRAINAGE AND UTILITIES

BEGIN PROJECT TO STA 131+00

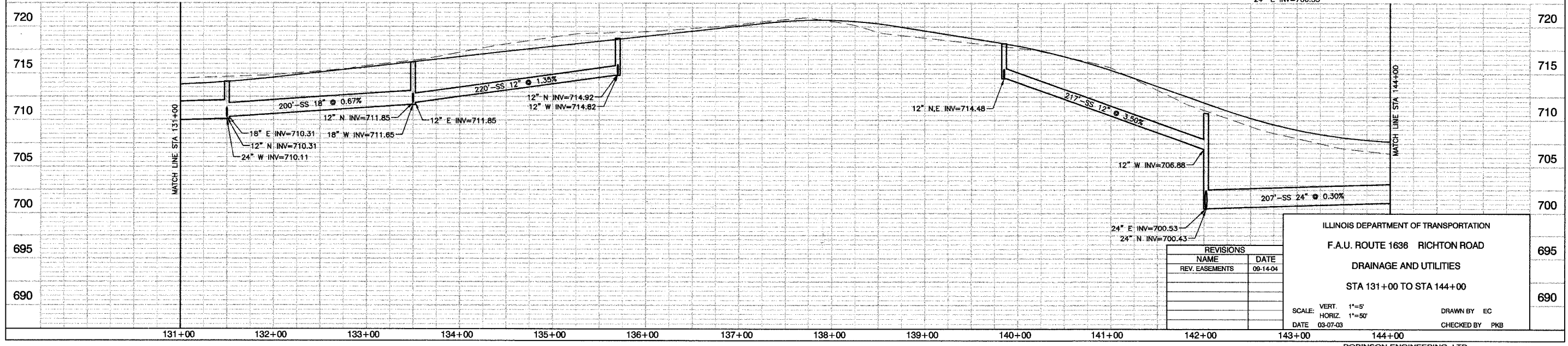
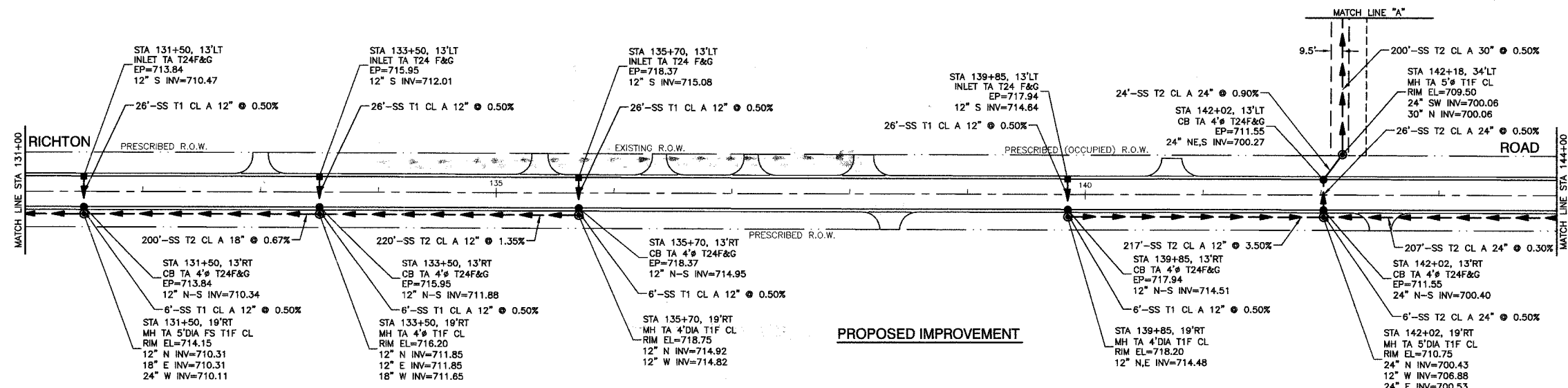
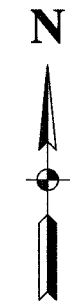
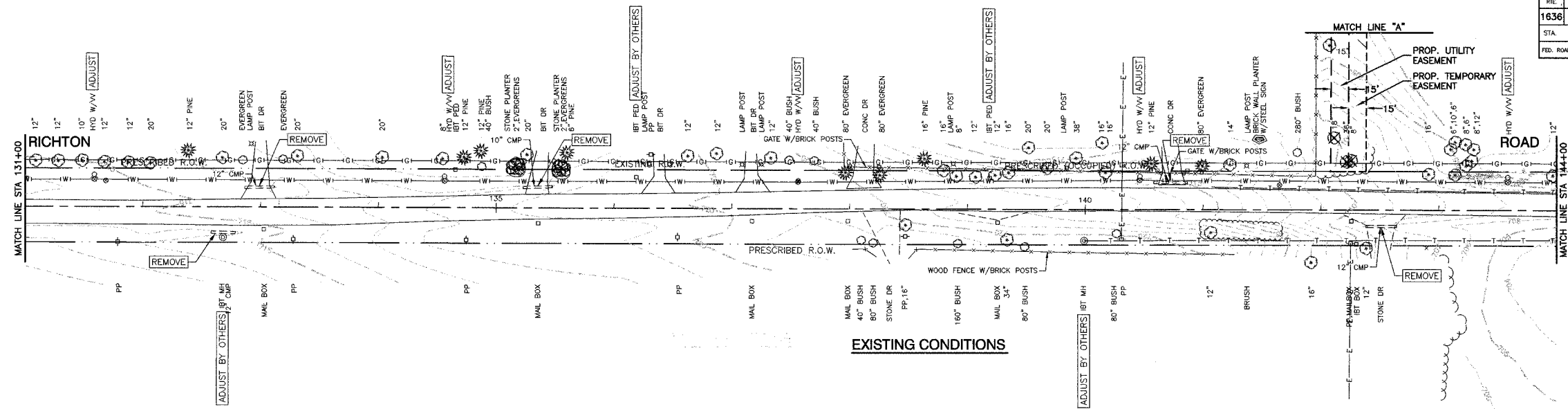
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HORIZ. 1"=50'

DATE 03-07-03

DRAWN BY EC
CHECKED BY PKB

FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	14
STA. 131+00		TO STA. 144+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83680



REVISIONS	
NAME	DATE
REV. EASEMENTS	08-14-04

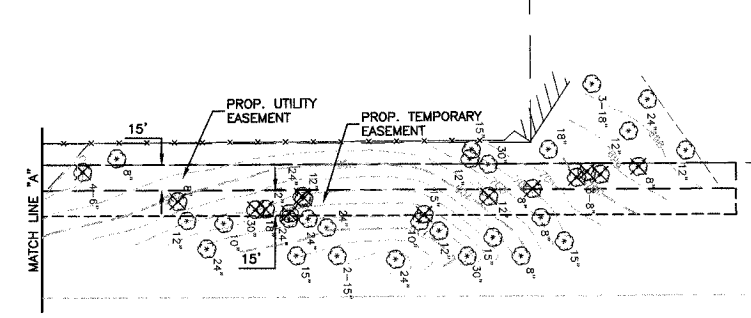
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 DRAINAGE AND UTILITIES
 STA 131+00 TO STA 144+00

SCALE: VERT. 1"=5'
 HORIZ. 1"=50'
 DATE 03-07-03

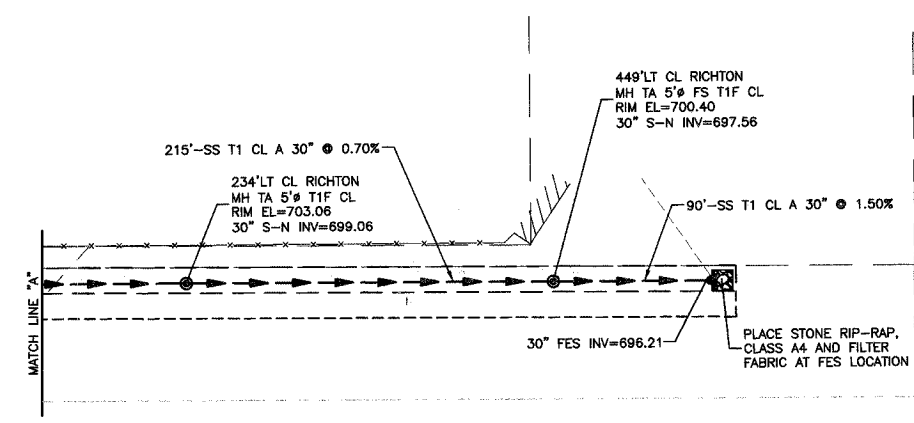
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 CHECKED BY PKB

FAU. REC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

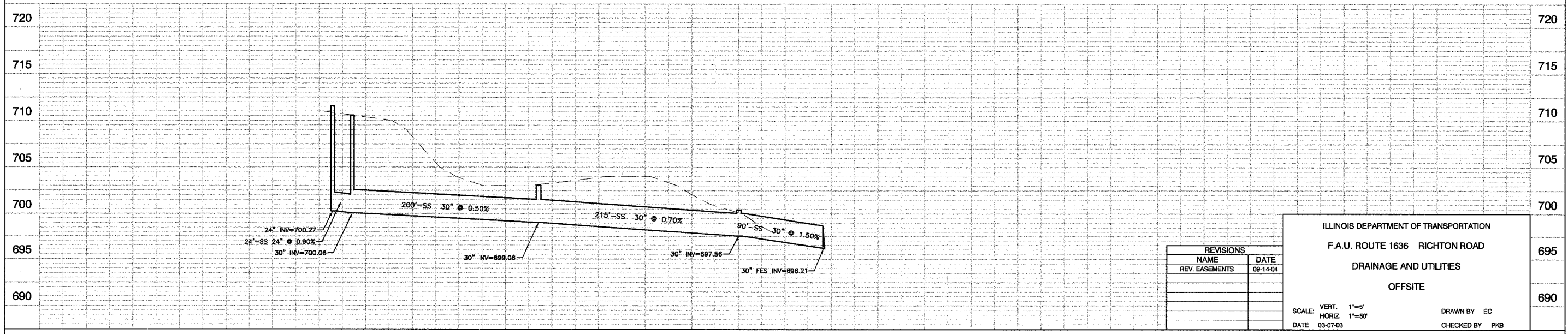
83680



EXISTING CONDITIONS



PROPOSED IMPROVEMENT



REVISIONS	
NAME	DATE
REV. EASEMENTS	08-14-04

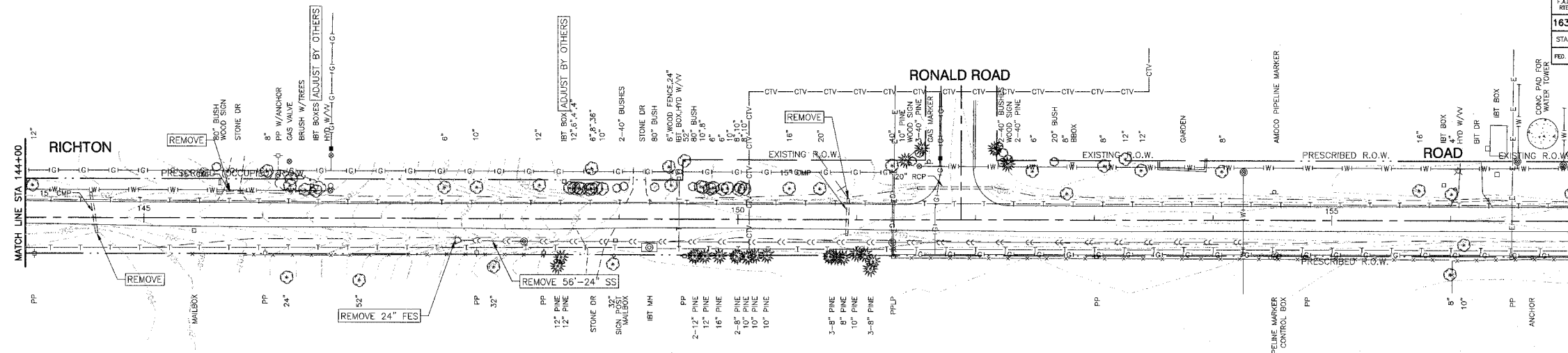
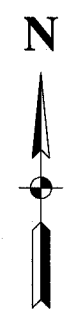
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 DRAINAGE AND UTILITIES
 OFFSITE

SCALE: VERT. 1"=5'
 HORIZ. 1"=50'
 DATE 03-07-03

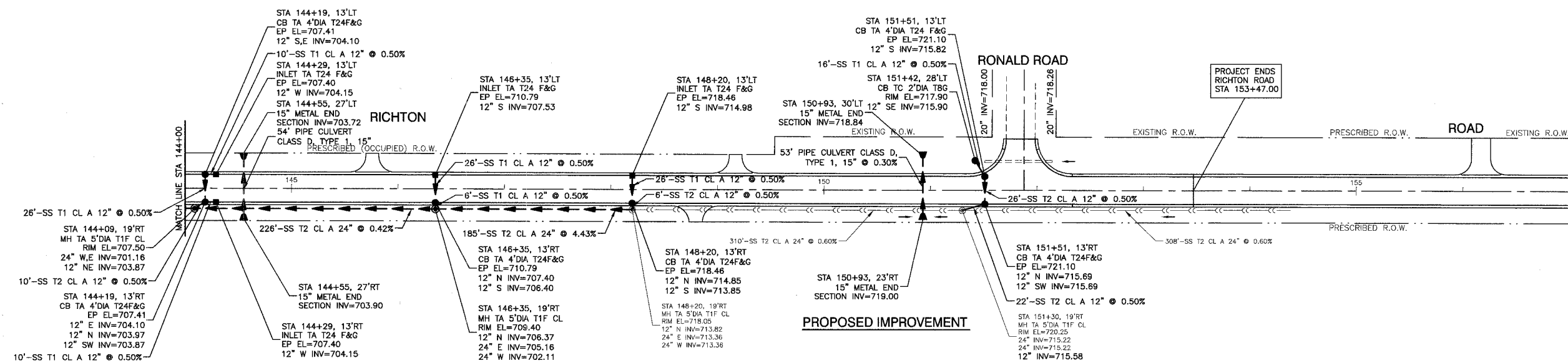
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 CHECKED BY PKB

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

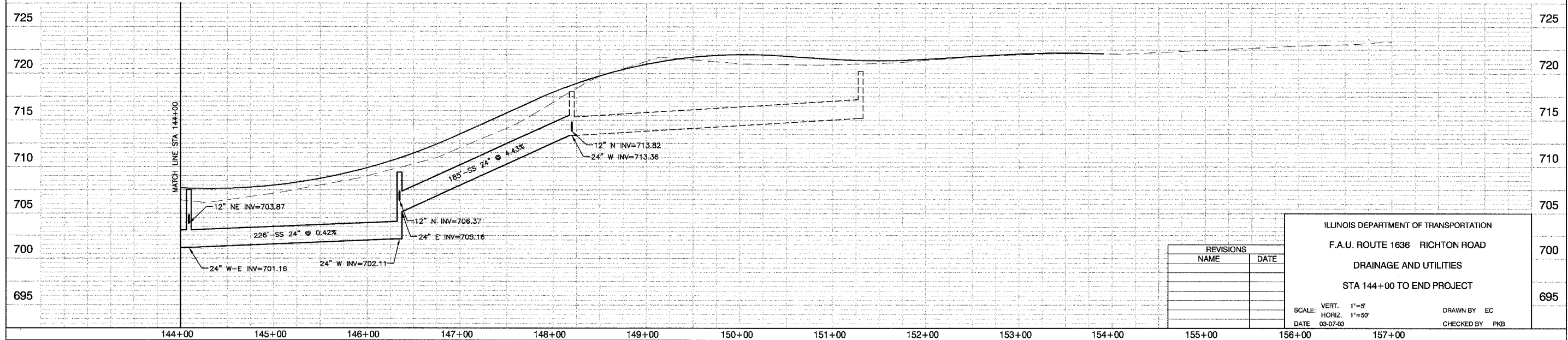
83680



EXISTING CONDITIONS



PROPOSED IMPROVEMENT

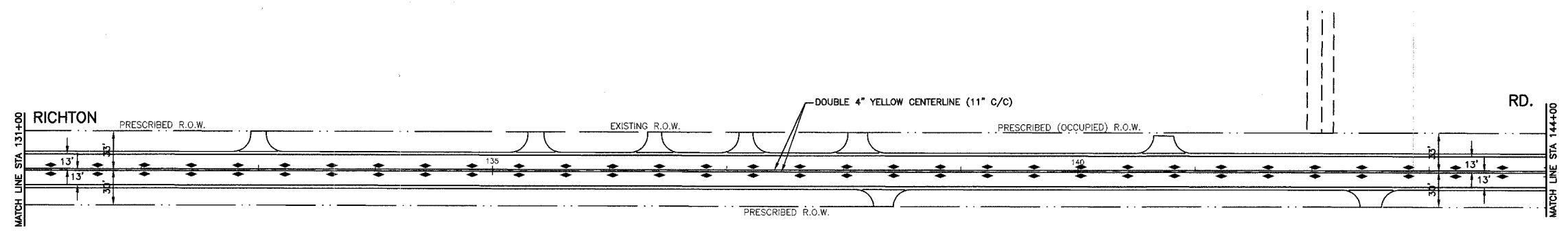
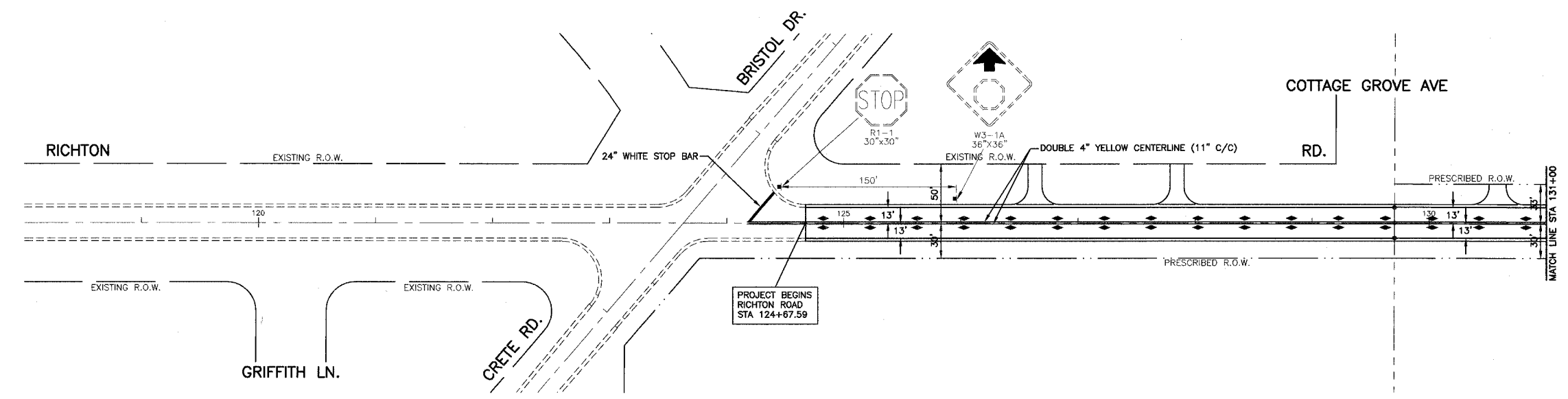


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 DRAINAGE AND UTILITIES
 STA 144+00 TO END PROJECT
 SCALE: VERT. 1"=5'
 HORIZ. 1"=50'
 DATE 03-07-03
 DRAWN BY EC
 CHECKED BY PKB

F.A.U. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-0003-03-PV	WILL	33	17
STA		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83680



PAVEMENT MARKING LEGEND

- ◁ ONE-WAY CRYSTAL MARKER (40' C-C UNLESS OTHERWISE NOTED.)
- ◆ TWO-WAY AMBER MARKER (40' C-C UNLESS OTHERWISE NOTED.)
- ✦ PROPOSED SIGN

NOTE:
ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.U. 1636 RICHTON ROAD

PAVEMENT MARKING AND SIGNING

BEGIN PROJECT TO STA 144+00

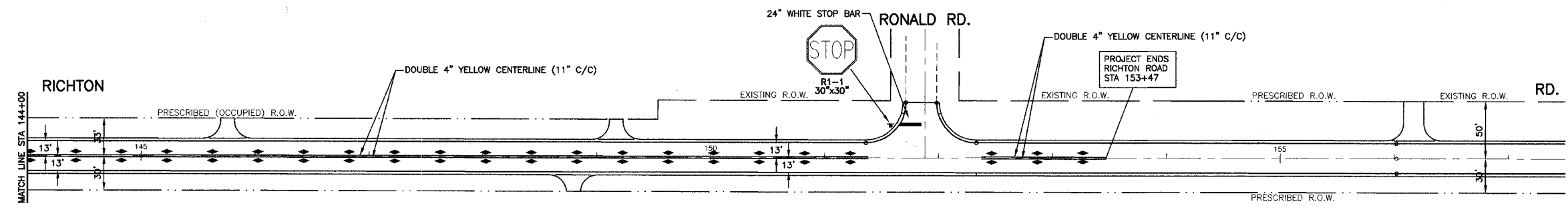
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HORIZ. 1"=50'

DATE 02-17-03

DRAWN BY AG
CHECKED BY PKB

F.A.U. RITE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

83680



PAVEMENT MARKING LEGEND

- ◁ ONE-WAY CRYSTAL MARKER
(40' C-C UNLESS OTHERWISE NOTED.)
- ◆ TWO-WAY AMBER MARKER
(40' C-C UNLESS OTHERWISE NOTED.)
- ▼ PROPOSED SIGN

NOTE:
ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC
UNLESS OTHERWISE NOTED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.U. 1636 RICHTON ROAD

PAVEMENT MARKING AND SIGNING

STA 144+00 TO END PROJECT

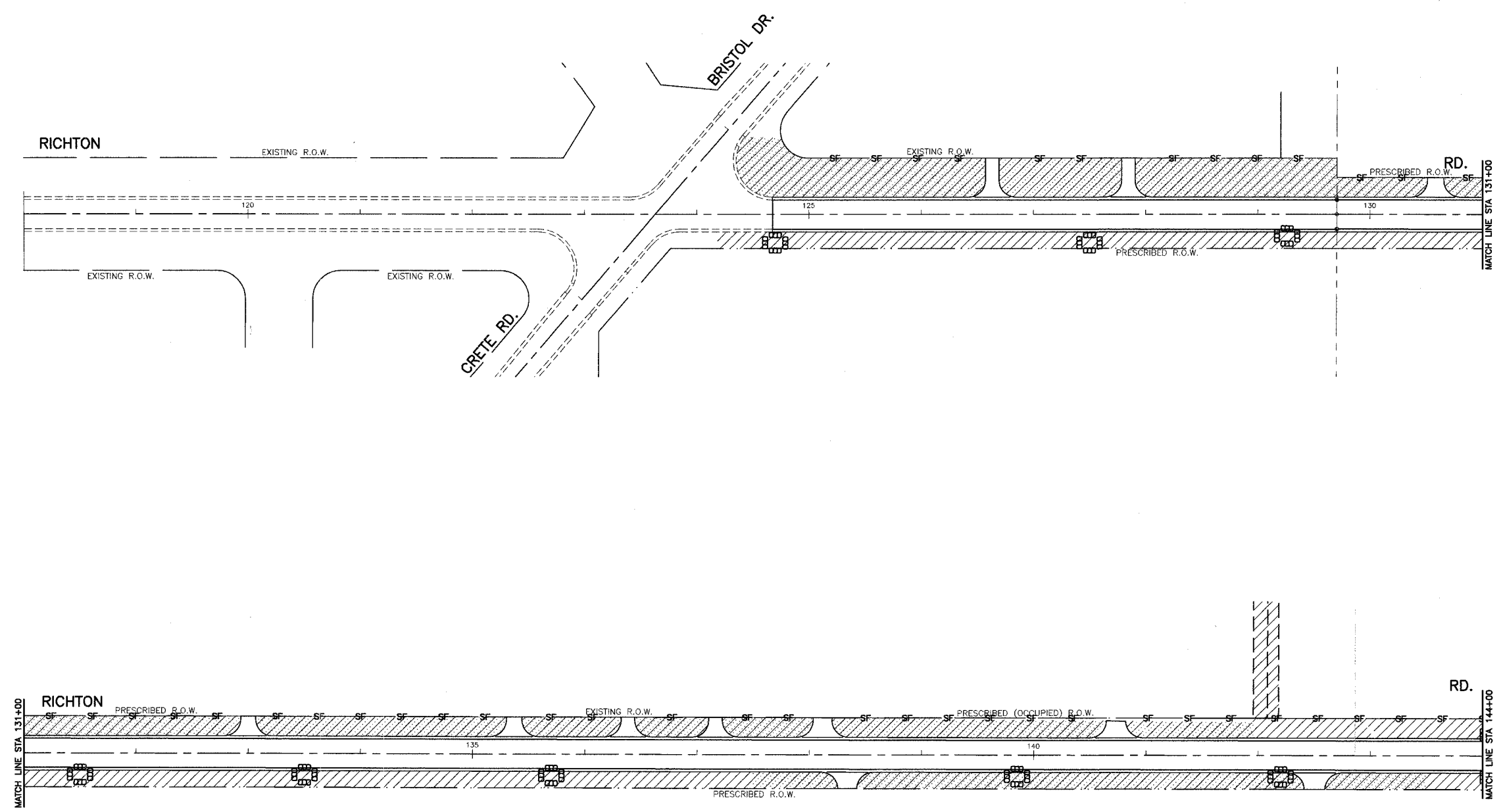
SCALE: VERT. 1"=50'
HORIZ. 1"=50'

DATE 02-17-03

DRAWN BY AG
CHECKED BY PKB

F.A.U. RITE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83680



TEMPORARY EROSION CONTROL NOTES

EROSION CONTROL BLANKET TO BE USED ONLY AT DITCH BOTTOMS.
 THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
 THE CONSTRUCTION LIMITS SHALL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.

GENERAL NOTES

THE CONTRACTOR WILL IMPLEMENT ALL PROVISION OF THE SPECIFICATIONS TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. SEDIMENTATION MUST BE TRANSPORTED OFF THE CONSTRUCTION AREA. THE CONTRACTOR'S ATTENTION IS CALLED TO THE STANDARD SPECIFICATIONS FOR TEMPORARY EROSION CONTROL.
 PERMANENT DRAINAGE FEATURES SHALL BE CONSTRUCTED AS SOON AS POSSIBLE.

KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	SODDING, SALT TOLERANT
	SEEDING, CLASS 2A

REVISIONS	
NAME	DATE

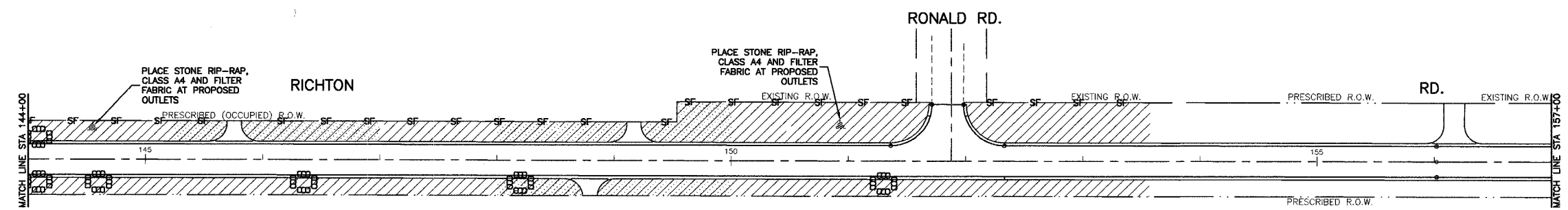
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 1636 RICHTON ROAD
 LANDSCAPING AND EROSION CONTROL
 BEGIN PROJECT TO STA 144+00

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 02-17-03

DRAWN BY EC
 CHECKED BY PKB

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83680



TEMPORARY EROSION CONTROL NOTES

EROSION CONTROL BLANKET TO BE USED ONLY AT DITCH BOTTOMS.
 THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
 THE CONSTRUCTION LIMITS SHALL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.

GENERAL NOTES

THE CONTRACTOR WILL IMPLEMENT ALL PROVISION OF THE SPECIFICATIONS TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. SEDIMENTATION MUST BE TRANSPORTED OFF THE CONSTRUCTION AREA. THE CONTRACTORS ATTENTION IS CALLED TO THE STANDARD SPECIFICATIONS FOR TEMPORARY EROSION CONTROL.
 PERMANENT DRAINAGE FEATURES SHALL BE CONSTRUCTED AS SOON AS POSSIBLE.

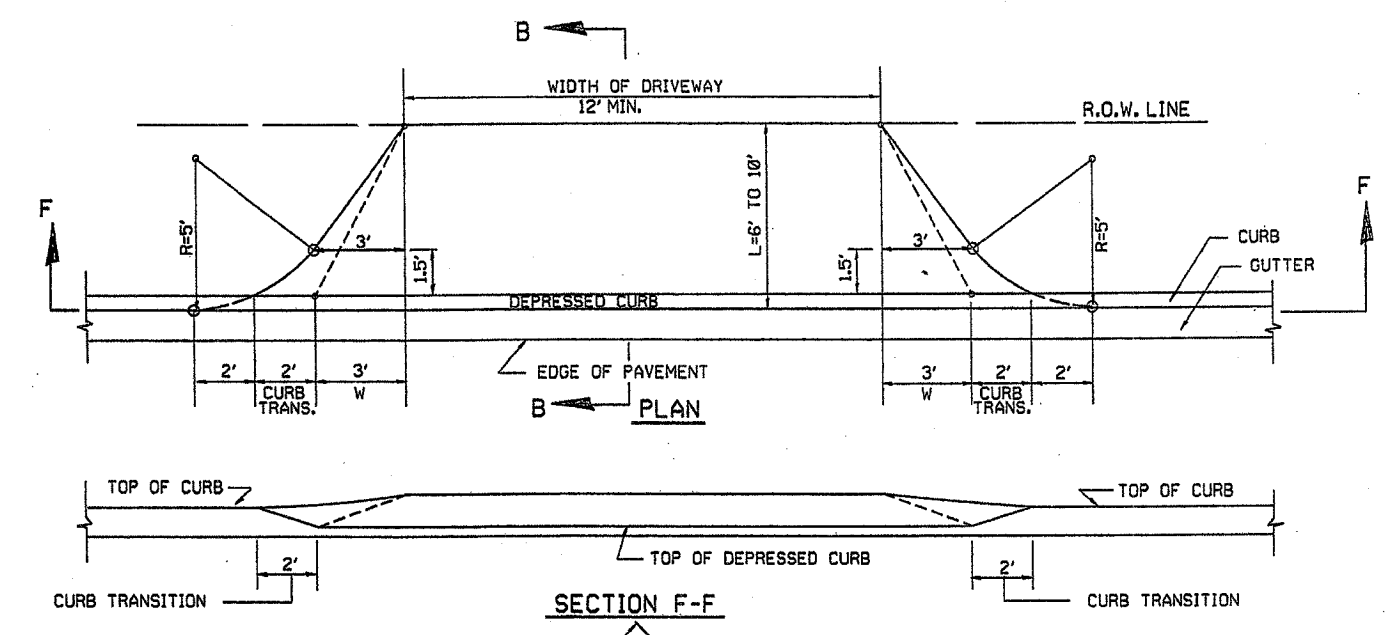
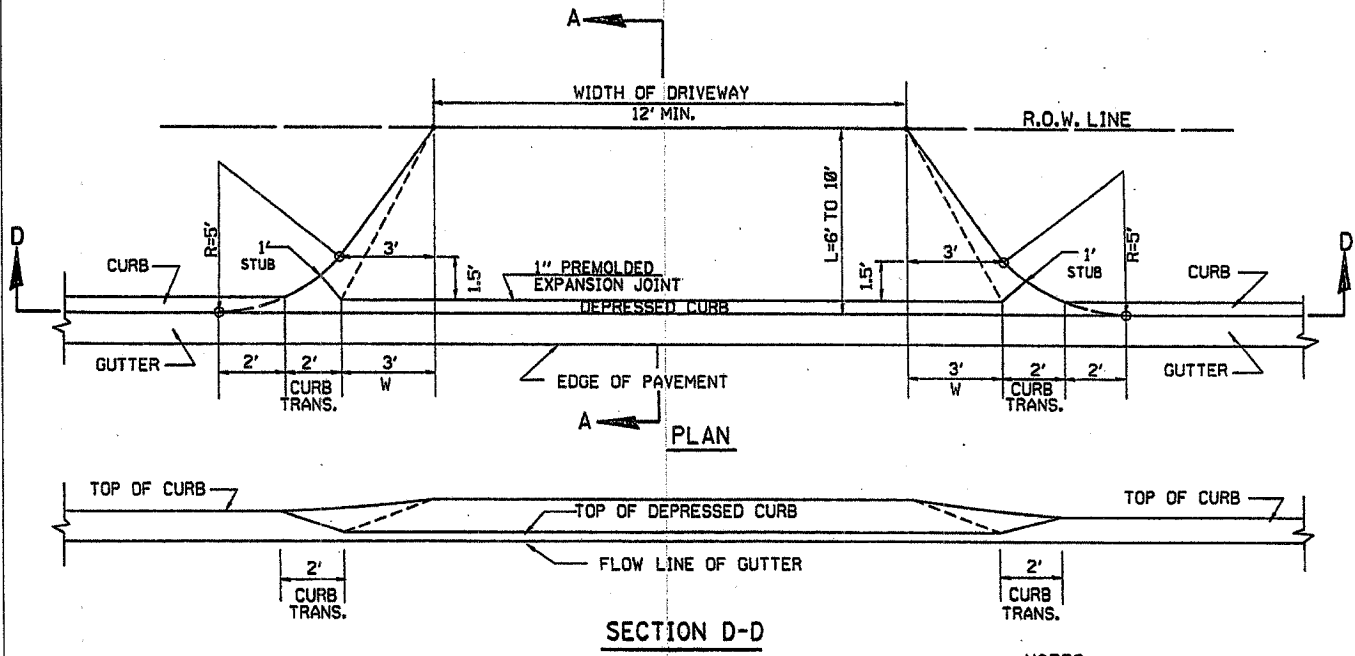
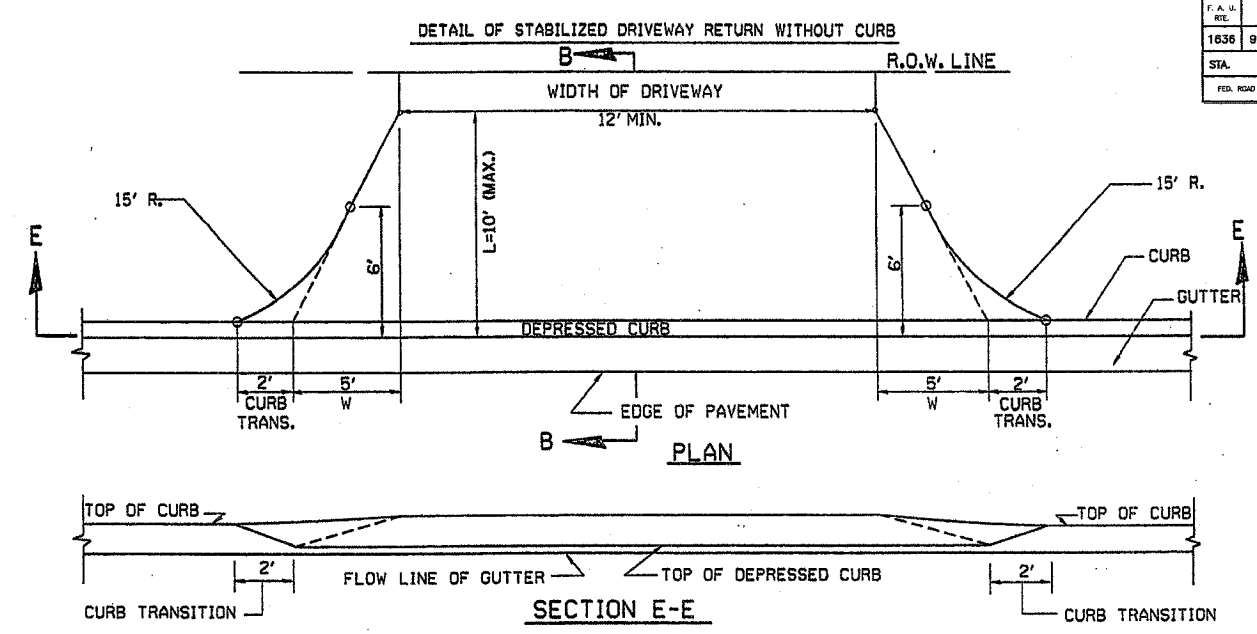
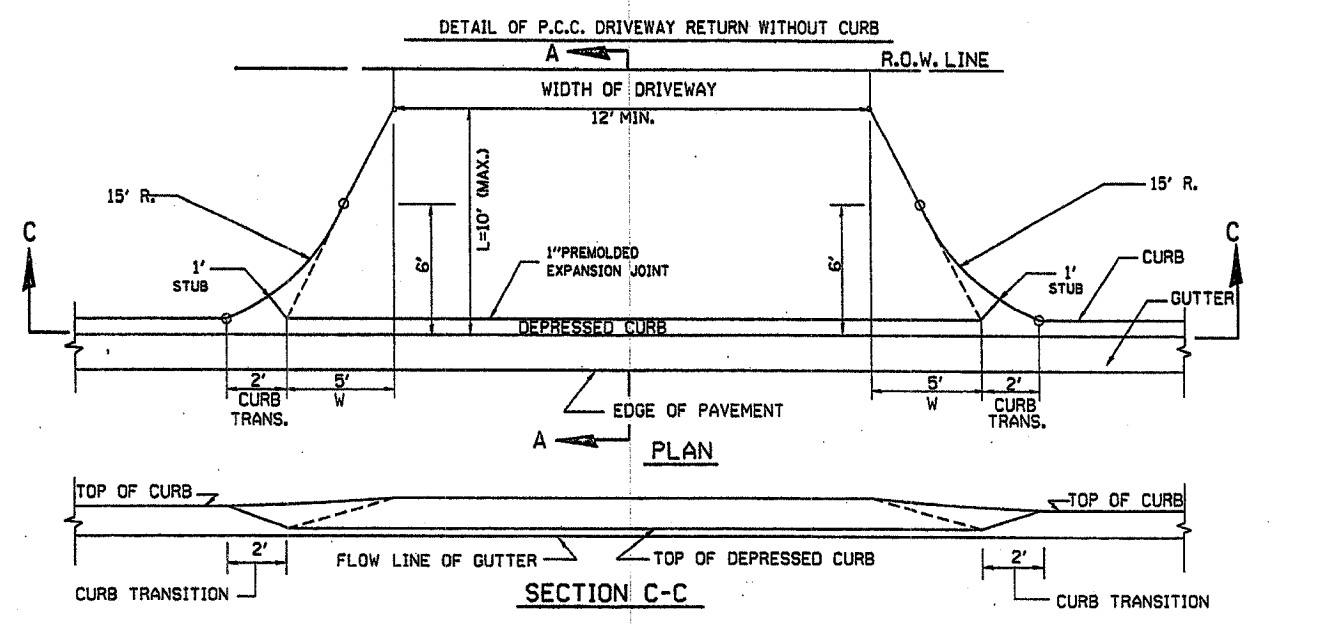
KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	SODDING, SALT TOLERANT
	SEEDING, CLASS 2A

REVISIONS	
NAME	DATE

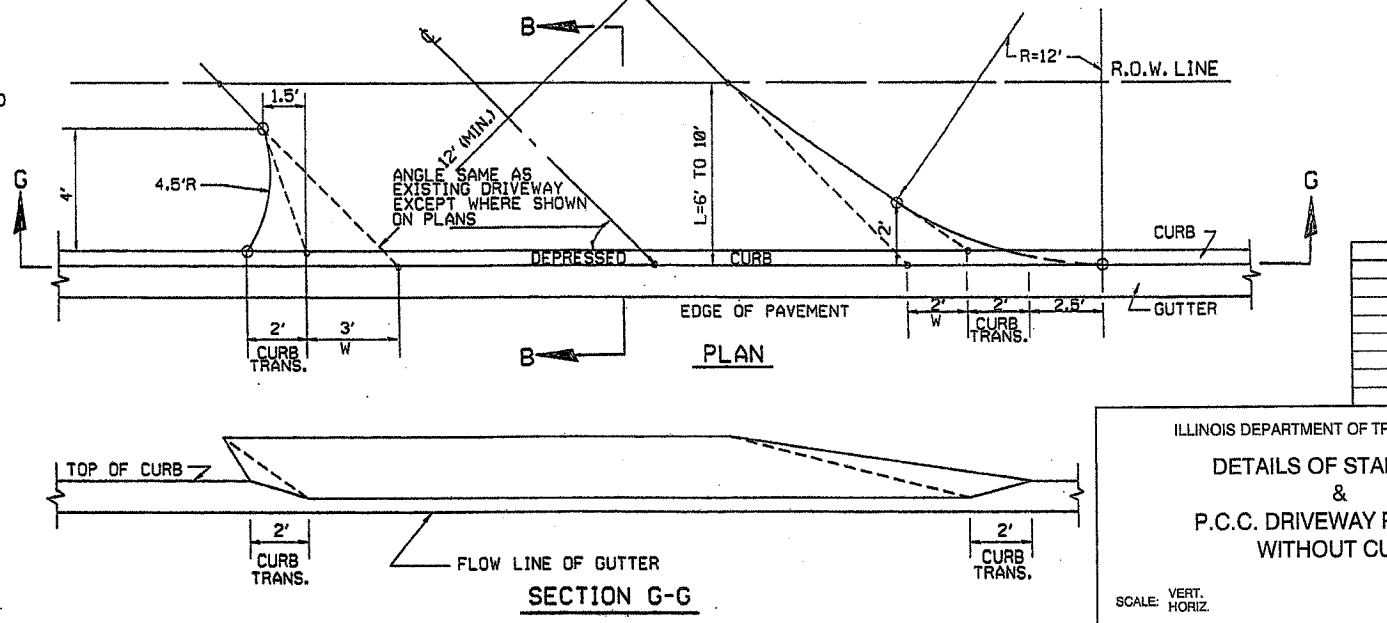
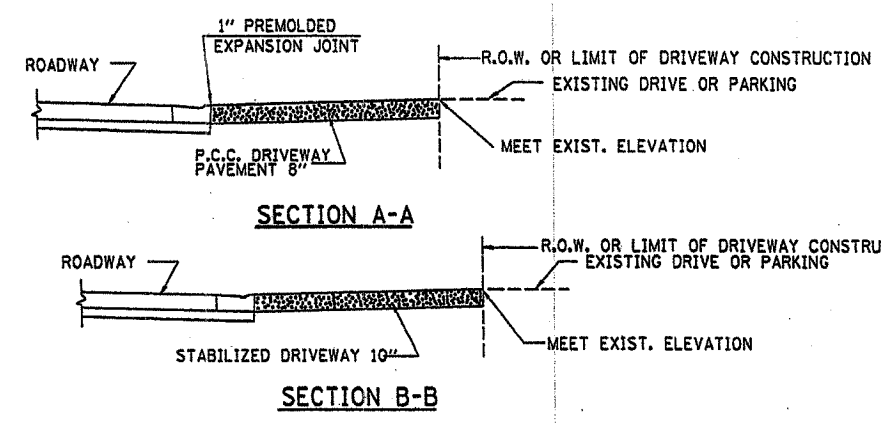
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 1636 RICHTON ROAD
 LANDSCAPING AND EROSION CONTROL
 STA 144+00 TO END PROJECT
 SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	21
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83680



- NOTES:**
- 1) "W" VARIES FROM 3' TO 5' PROPORTIONAL TO THE LENGTH (L), FROM 6' TO 10'
 - 2) COMB. CONC. CURB AND GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY RETURN. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE TRANSITION CURB.
 - 3) 1" PREMOULDED EXPANSION JOINT WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO P.C.C. DRIVEWAY PAVEMENT 8".

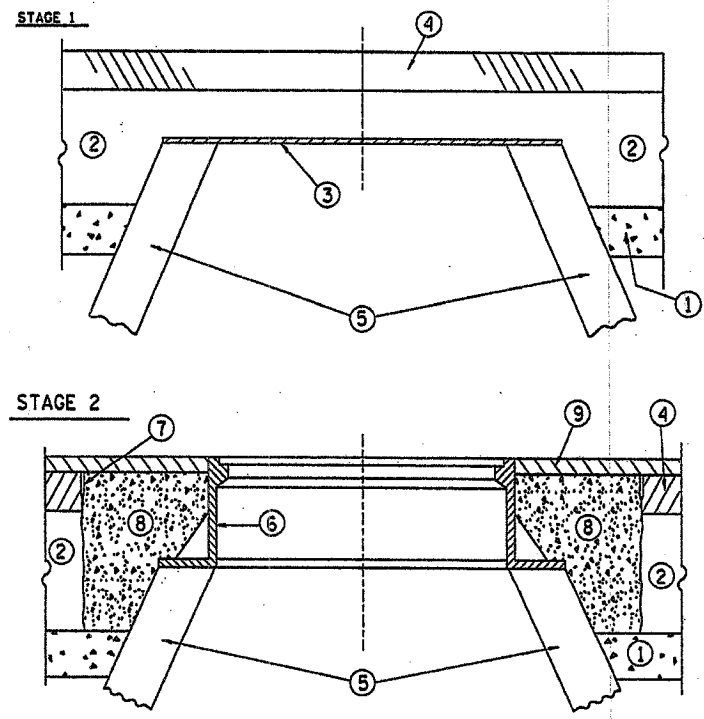


REVISIONS	
NAME	DATE
M. DEYONG	06/13/90

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS OF STABILIZED & P.C.C. DRIVEWAY RETURNS WITHOUT CURB
 SCALE: VERT. HORIZ.
 DATE 04/22/94
 DRAWN BY
 CHECKED BY

F. A. U. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	22.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83680



CONSTRUCTION PROCEDURES

STAGE 1
 A) CONSTRUCT THE STRUCTURE TO ITS FINAL ELEVATION AND PLACE A 3'x 3'x 1/2" METAL PLATE OVER THE OPENING.
 B) CONSTRUCT THE SUB-BASE AND BAM/CAM/PAM BASE COURSE AND OVERLAY WITH BIT. CONC. BINDER COURSE OF THE SPECIFIED THICKNESS.

STAGE 2
 A) SCORE A MIN. 1" DEPTH IN THE BIT. CONC. BINDER COURSE 4'x4' AROUND THE STRUCTURE.
 B) REMOVE THE BIT. CONC. BINDER CSE. AND FLEXIBLE BASE. INSTALL THE FRAME AND LID, AND PLACE P.C. CONC. TO THE ELEVATION OF THE BIT. CONC. BINDER COURSE. P.C. CONC. SHALL MEET THE REQUIREMENTS OF SECTION 304 OF THE STD. SPECS.
 C) PLACE BIT. CONC. SURFACE CSE. TO FINAL GRADE.

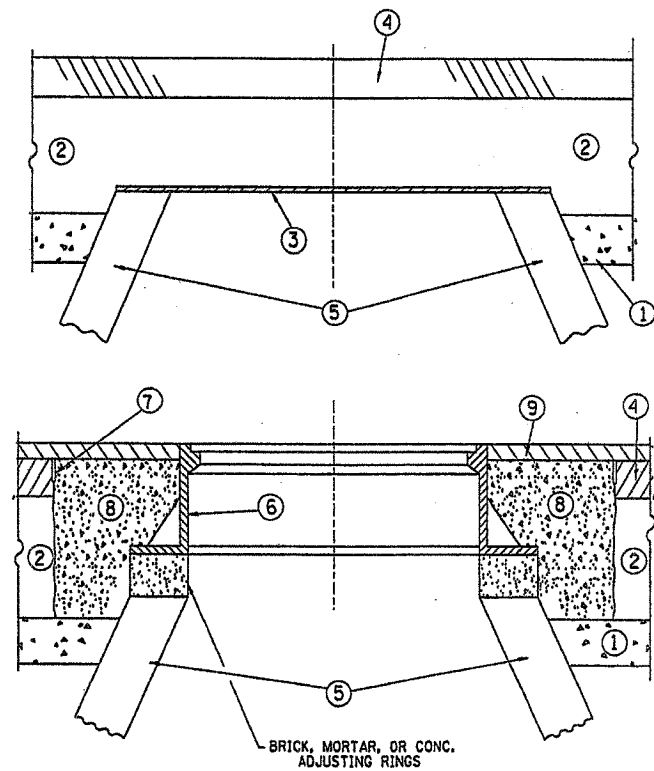
- LEGEND**
- ① SUB-BASE GRANULAR MATERIAL
 - ② BAM/CAM/PAM BASE CSE.
 - ③ 3'x3'x1/2" METAL PLATE
 - ④ BIT. CONC. BINDER COURSE
 - ⑤ NEW STRUCTURE AS SPECIFIED IN THE PLANS
 - ⑥ NEW FRAME AND LID AS SPECIFIED IN THE PLANS.
 - ⑦ SCORE (MIN. 1" DEPTH)
 - ⑧ P.C. CONCRETE
 - ⑨ BIT. CONCRETE SURFACE COURSE

NOTES:
 THE 3'x3'x1/2" METAL PLATES SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

LOCATION OF STRUCTURES: THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND THE DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, HE SHALL DELIVER SAID RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THE TYPE OF STRUCTURE WITH FRAME AND LID AS SPECIFIED IN THE PLANS.

DETAIL FOR CONSTRUCTING DRAINAGE & UTILITY STRUCTURES IN PROPOSED BAM/CAM/PAM BASE COURSE



CONSTRUCTION PROCEDURES

STAGE 1
 A) REMOVE THE EXISTING FRAME AND LID FROM THE EXISTING STRUCTURE.
 B) COVER THE STRUCTURE OPENING WITH A 3'x 3'x 1/2" METAL PLATE.
 C) CONSTRUCT SUB-BASE GRANULAR MATERIAL, BAM/CAM/PAM BASE COURSE AND OVERLAY WITH BIT. CONC. BINDER CSE. OF THE SPECIFIED THICKNESS.

STAGE 2
 A) SCORE A MIN. 1" DEPTH IN THE BIT. CONC. BINDER COURSE 4'x 4' AROUND THE STRUCTURE.
 B) REMOVE THE BIT. CONC. BINDER CSE. AND FLEXIBLE BASE. ADJUST THE STRUCTURE TO THE REQUIRED ELEVATION. INSTALL THE FRAME AND LID AND PLACE P.C. CONC. TO THE ELEVATION OF THE BIT. CONC. BINDER COURSE. P.C. CONC. SHALL MEET THE REQUIREMENTS OF SECTION 304 OF THE STD. SPECS.
 C) PLACE BIT. CONC. SURFACE CSE. TO FINAL GRADE.

- LEGEND**
- ① SUB-BASE GRANULAR MATERIAL
 - ② BAM/CAM/PAM BASE CSE.
 - ③ 3'x3'x1/2" METAL PLATE
 - ④ BIT. CONC. BINDER COURSE
 - ⑤ EXISTING STRUCTURE
 - ⑥ FRAME AND LID (SEE NOTES)
 - ⑦ SCORE (MIN. 1" DEPTH)
 - ⑧ P.C. CONCRETE
 - ⑨ BIT. CONCRETE SURFACE COURSE

NOTES: THE 3'x3'x1/2" METAL PLATES SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

THE FRAMES AND LIDS CONSIDERED BY THE ENGINEER AS UNSUITABLE FOR REUSE, SHALL BE REPLACED WITH NEW CAST IRON FRAMES AND LIDS. THE UNUSED CASTINGS ARE THE PROPERTY OF THE STATE AND THE CONTRACTOR SHALL NOTIFY THE DIVISION OF HIGHWAYS, DISTRICT 1, AND MAKE THE NECESSARY ARRANGEMENTS FOR REMOVAL AND RECEIPT OF SAID CASTINGS.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF SAID CASTINGS.

LOCATION OF STRUCTURES: THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND THE DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, HE SHALL DELIVER SAID RECORD TO THE ENGINEER.

BASIS OF PAYMENT: DRAINAGE & UTILITY STRUCTURE ADJUSTMENT (SPECIAL) NEW FRAME AND LID WILL BE PAID FOR SEPARATELY.

DETAIL FOR PROPOSED DRAINAGE & UTILITY STRUCTURE ADJUSTMENT(SPECIAL) IN PROPOSED BAM/CAM/PAM BASE COURSE

REVISIONS	
NAME	DATE
M. DE YONG	9-22-90

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR CONSTRUCTION DRAINAGE AND UTILITY STRUCTURES IN PROPOSED BAM/CAM/PAM BASE COURSE AND FOR DRAINAGE AND UTILITY STRUCTURE ADJUSTMENT (SPECIAL) IN PROPOSED BAM/CAM/PAM BASE COURSES

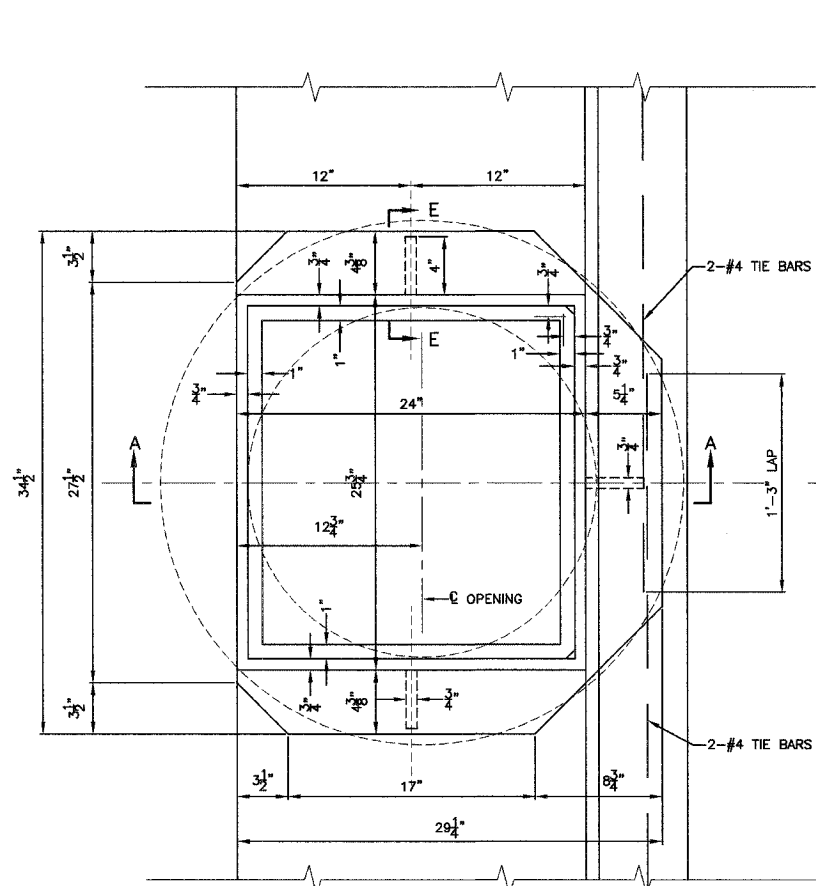
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 HORIZ. NONE

DATE: 04/22/94

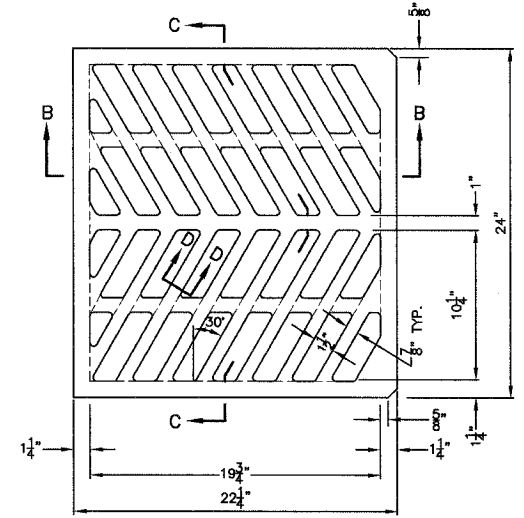
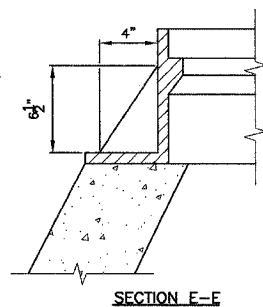
DRAWN BY
 CHECKED BY

F. A. U. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL.	33	23
STA.	TO STA.			
FED. ROAD DIST. NO.	CLASS.	FED. AID PROJECT		

83680

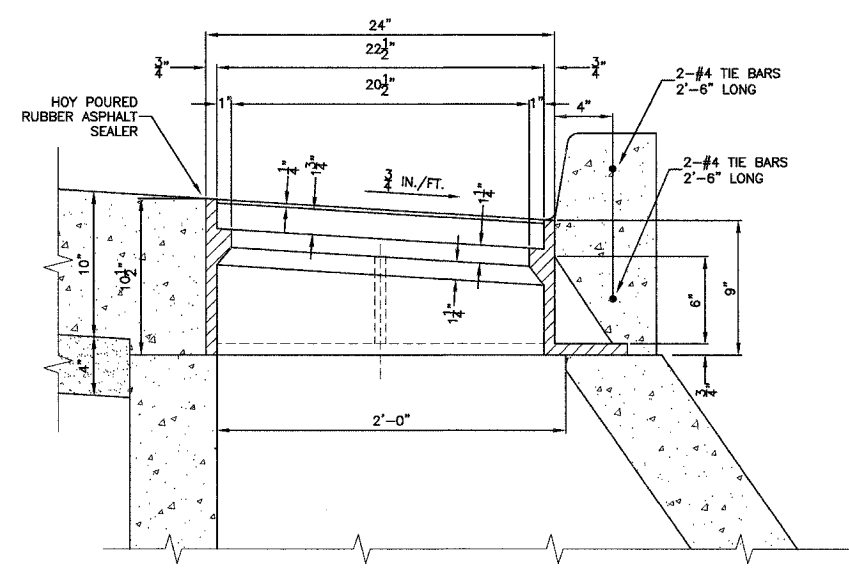


FRAME TYPE B-24
WT. 317 LBS.

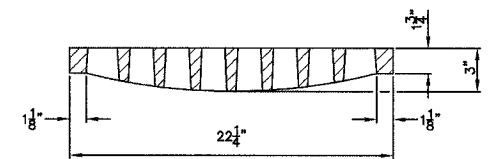


GRATE TYPE B-24
WT. 140 LBS.

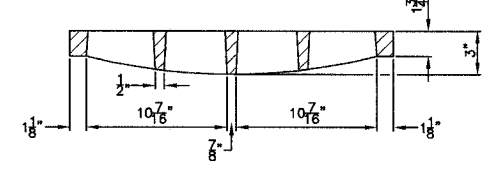
NOTE: TO BE USED IN SAG AREAS ONLY



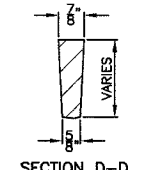
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

NOTES:
 DUCTILE IRON CASTING SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A536.
 GRAY IRON CASTING SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A4 8, CL. 30B.
 TENSILE TESTS WILL BE REQUIRED AND STANDARD TEST SPECIMENS WILL BE FURNISHED WITHOUT CHARGE.
 THE GRATE SHALL FIT AND HAVE FULL CONTACT WITH THE FRAME TO PREVENT THE GRATE FROM JUMPING OR RATTLING WHEN STRUCK BY VEHICLES.
 THE HOT Poured RUBBER ASPHALT SEALER SHALL CONFORM TO A.S.T.M. D-1190-64.

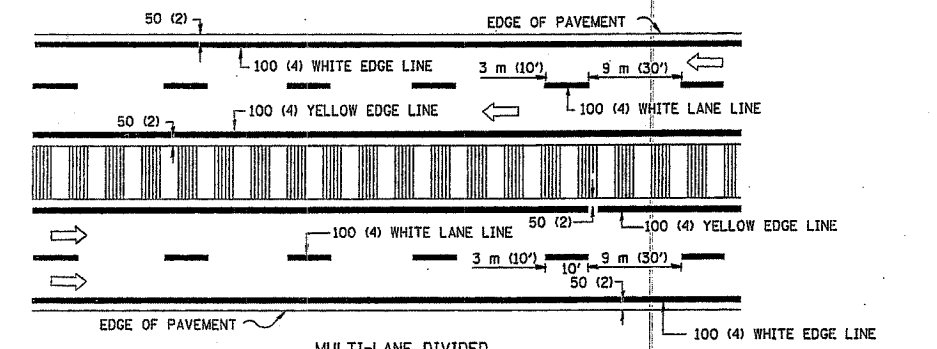
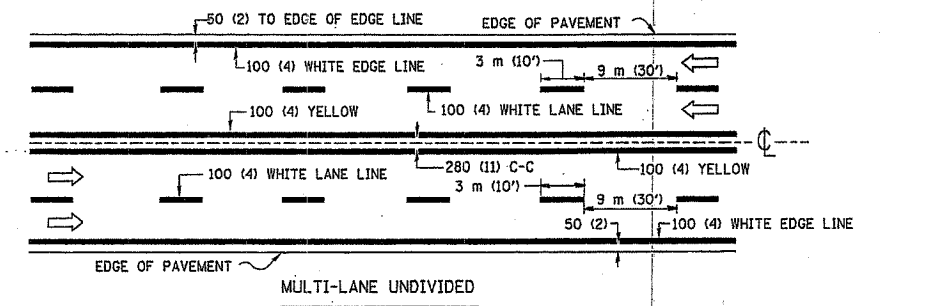
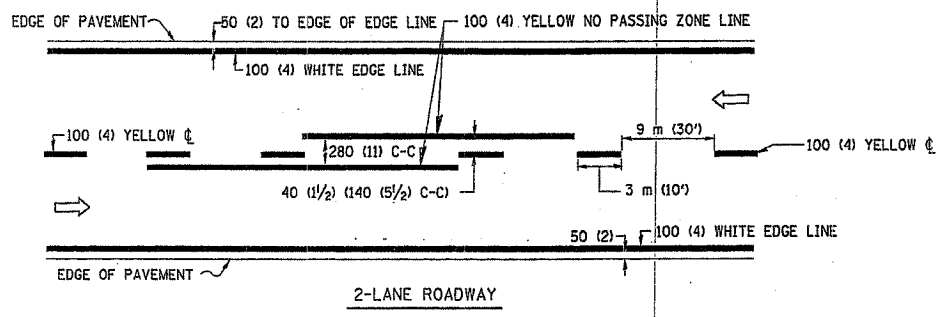
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FRAME AND GRATE
TYPE B-24

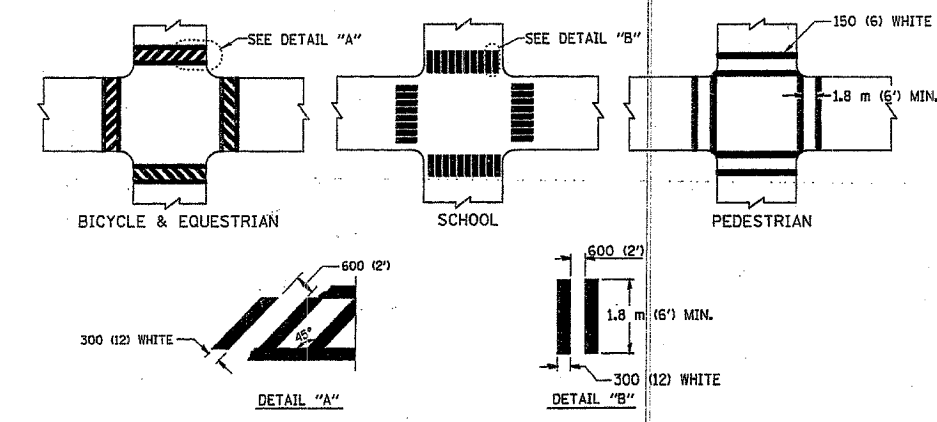
SCALE: VERT. NONE
 HORIZ. NONE
 DATE: 8/26/99

DRAWN BY
 CHECKED BY

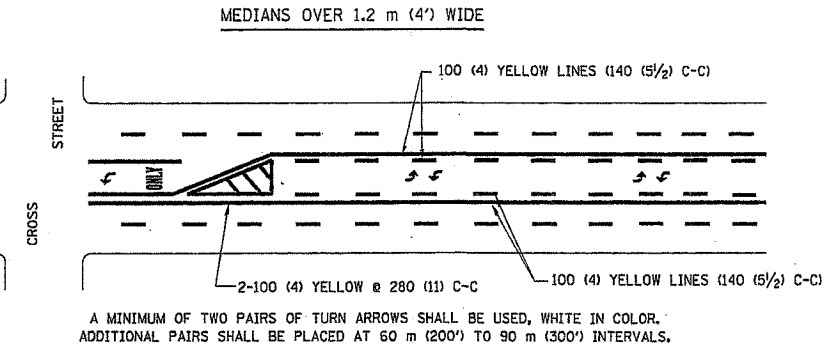
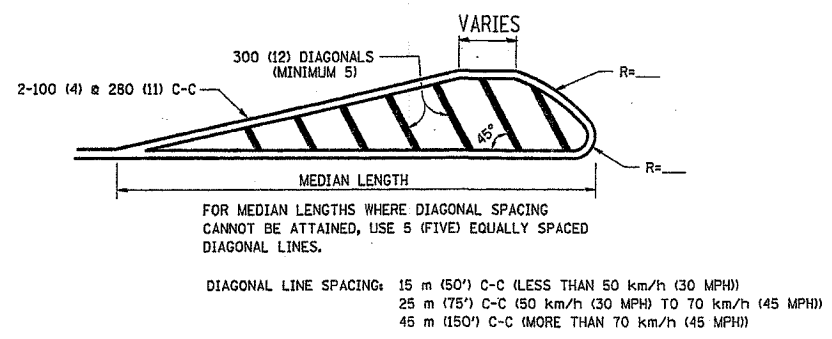
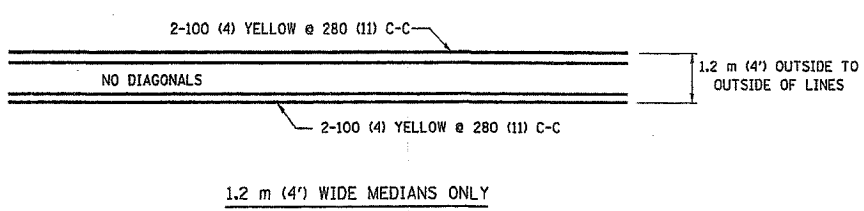


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

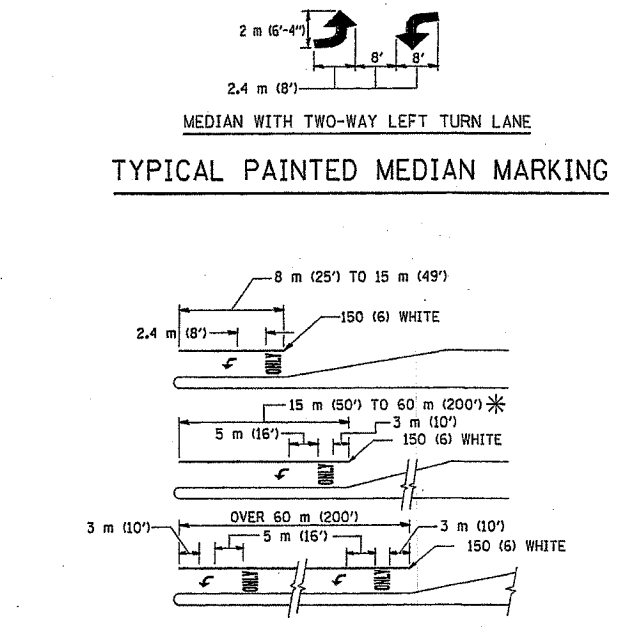
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

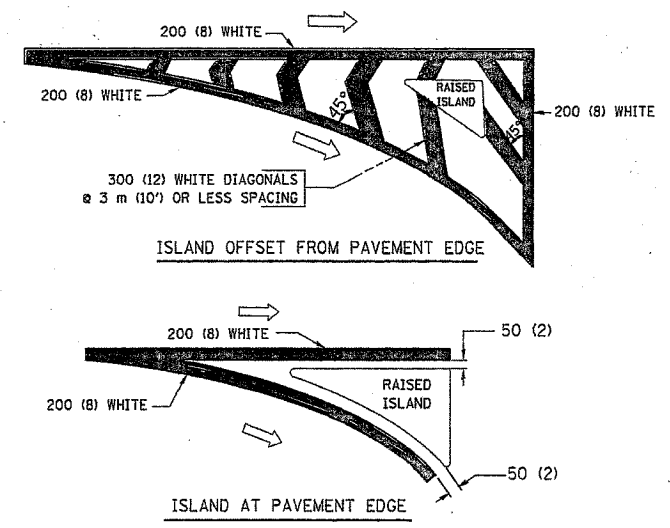


TYPICAL PAINTED MEDIAN MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 600 (2') APART @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.40 m² (4.3 SQ. FT.) EACH "X"=5.0 m² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 1997 AND STATE STANDARD 780001.

All dimensions are in millimeters (inches) unless otherwise shown.

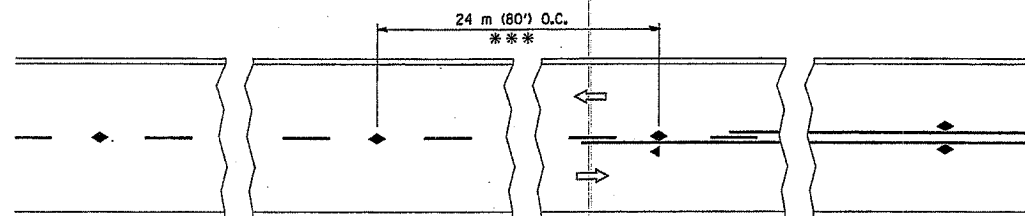
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACH	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DATE 08/19/99
DRAWN BY CADD
CHECKED BY

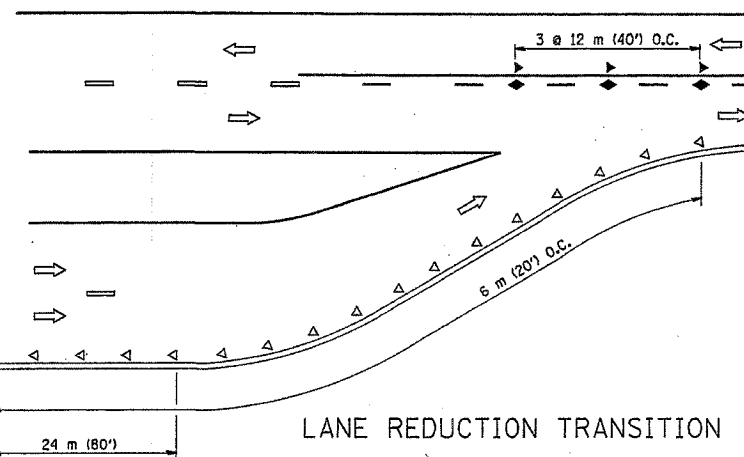
F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	25
STA.	TO STA.			
FED. ROAD DIST. NO.	LANDS	FED. AID PROJECT		

83680

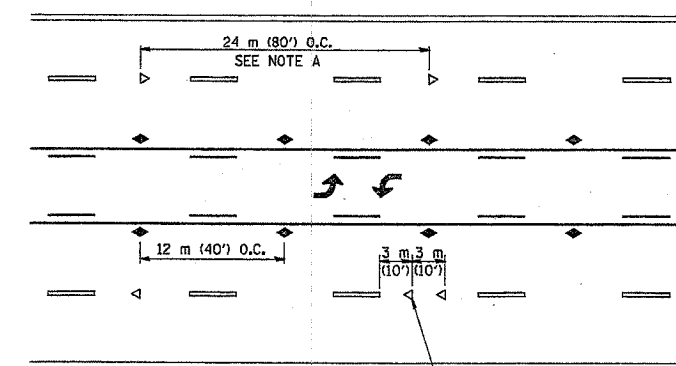


*** REDUCE TO 12 m (40') O.C. ON CURVES WITH POSTED OR ADVISORY SPEED TO km/h (45 M.P.H.) OR LESS.

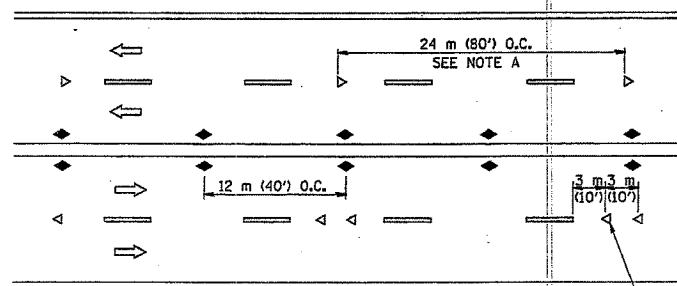
TWO-LANE/TWO-WAY



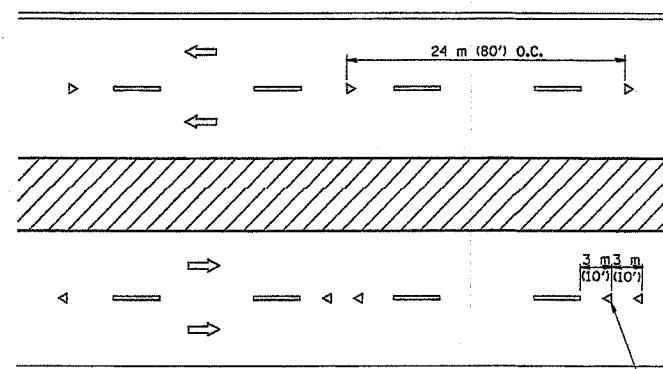
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

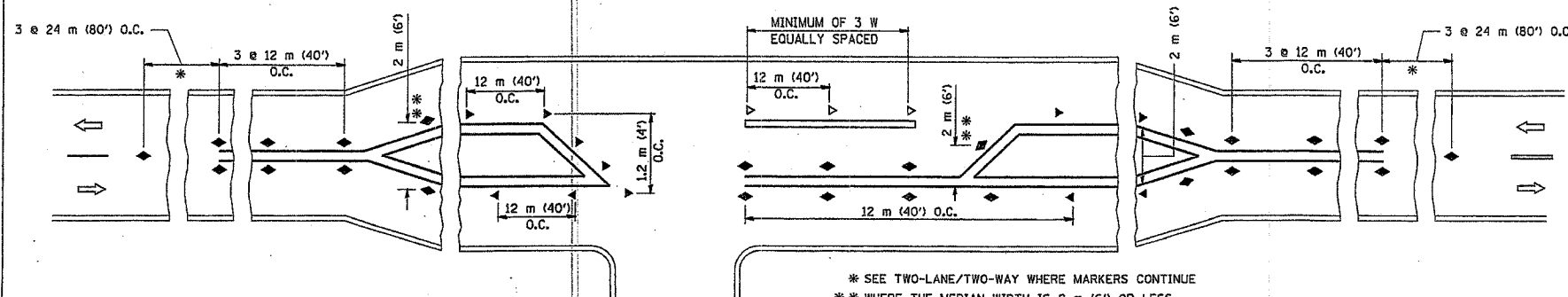
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. REDUCE TO 12 m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.H.) LOWER THAN POSTED SPEEDS.
- B. WHERE DOUBLE LANE LINE MARKERS ARE SPECIFIED, THEY SHALL BE SPACED AS SHOWN.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED. CURBED SECTIONS MAY BE DELINEATED WITH CURB TOP MARKERS.



RURAL LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 2 m (6') OR LESS USE TWO-WAY MARKERS.

All dimensions are in millimeters (Inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS
 (SNOW-PLOW RESISTANT)

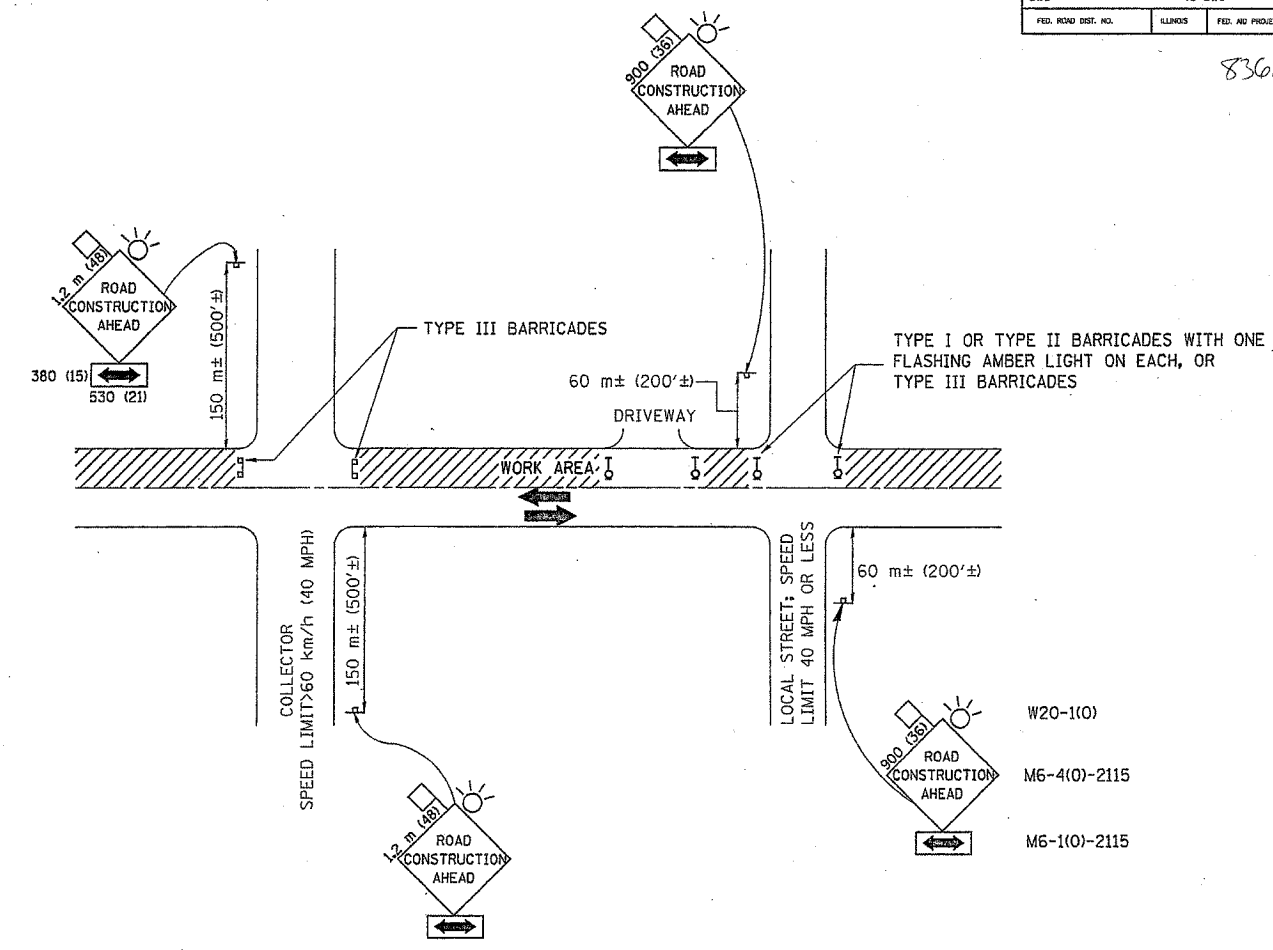
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99

SCALE: NONE
 DATE: 08/19/99

DRAWN BY CADD
 CHECKED BY

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	26
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83680



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

REVISIONS		
NAME	DATE	
LHA	6/89	
T. RAMMACHER	09/08/94	
J. OBERLE	10/18/95	
A. HOUSEH	03/06/96	
A. HOUSEH	10/15/96	

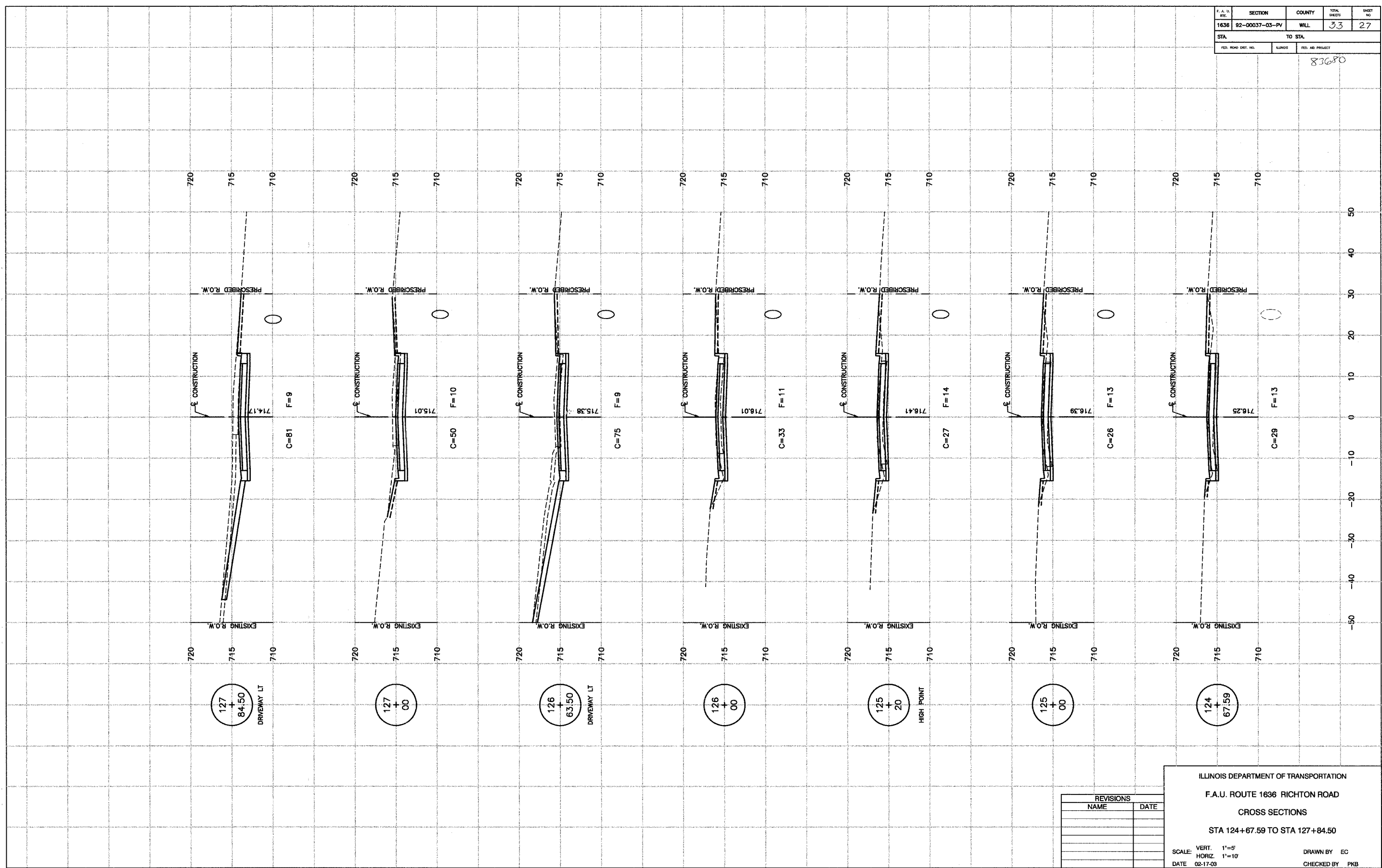
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE
 DATE: 08/19/99

DRAWN BY
 CHECKED BY

F. A. U. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL.	33	27
STA.	TO STA.			
FED. ROAD DIST. NO.	ALNOS	FED. AID PROJECT		

83680

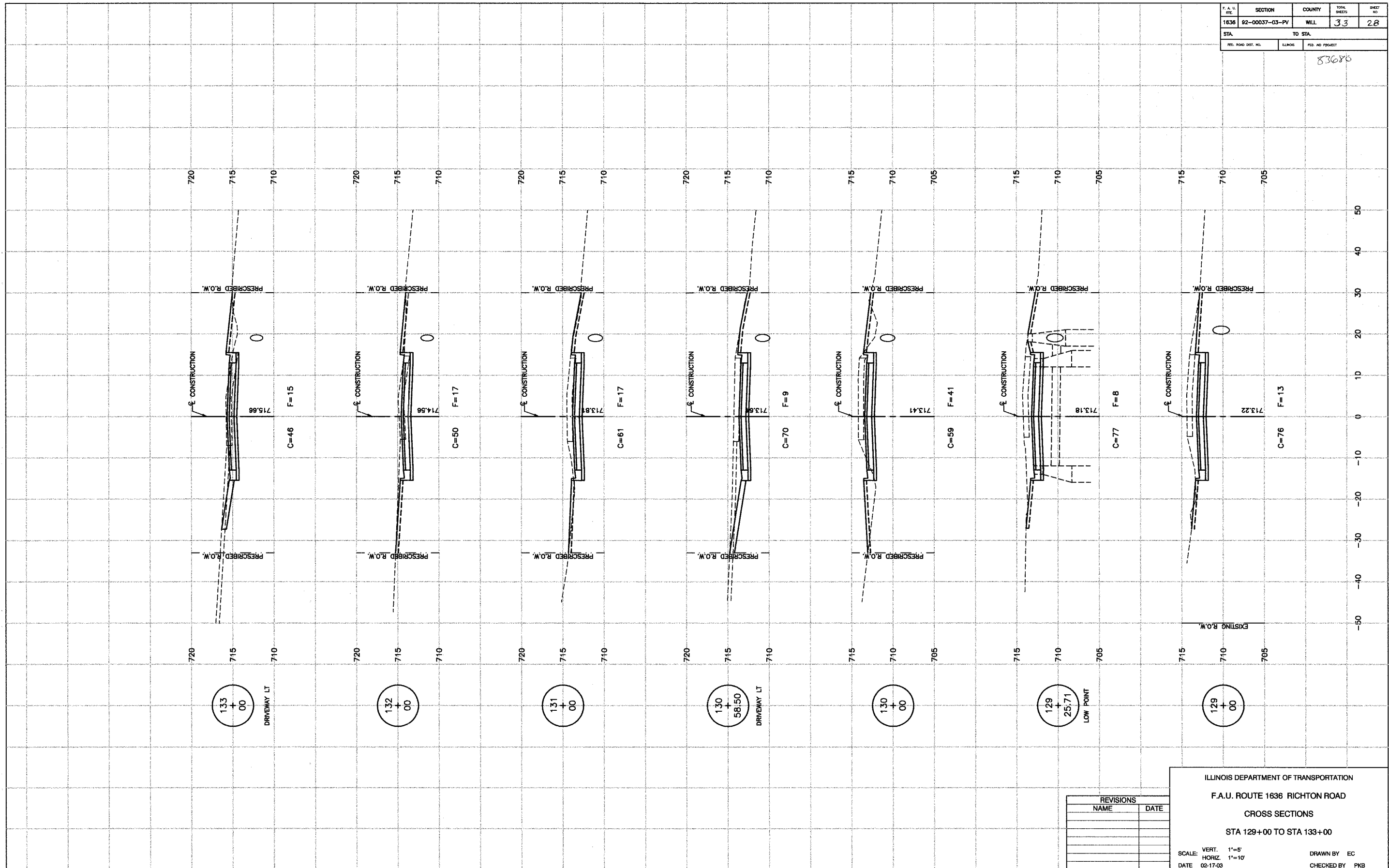


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 CROSS SECTIONS
 STA 124+67.59 TO STA 127+84.50
 SCALE: VERT. 1"=5'
 HORIZ. 1"=10'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB

F. A. U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1836	92-00037-03-PV	WILL.	33	28
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83686

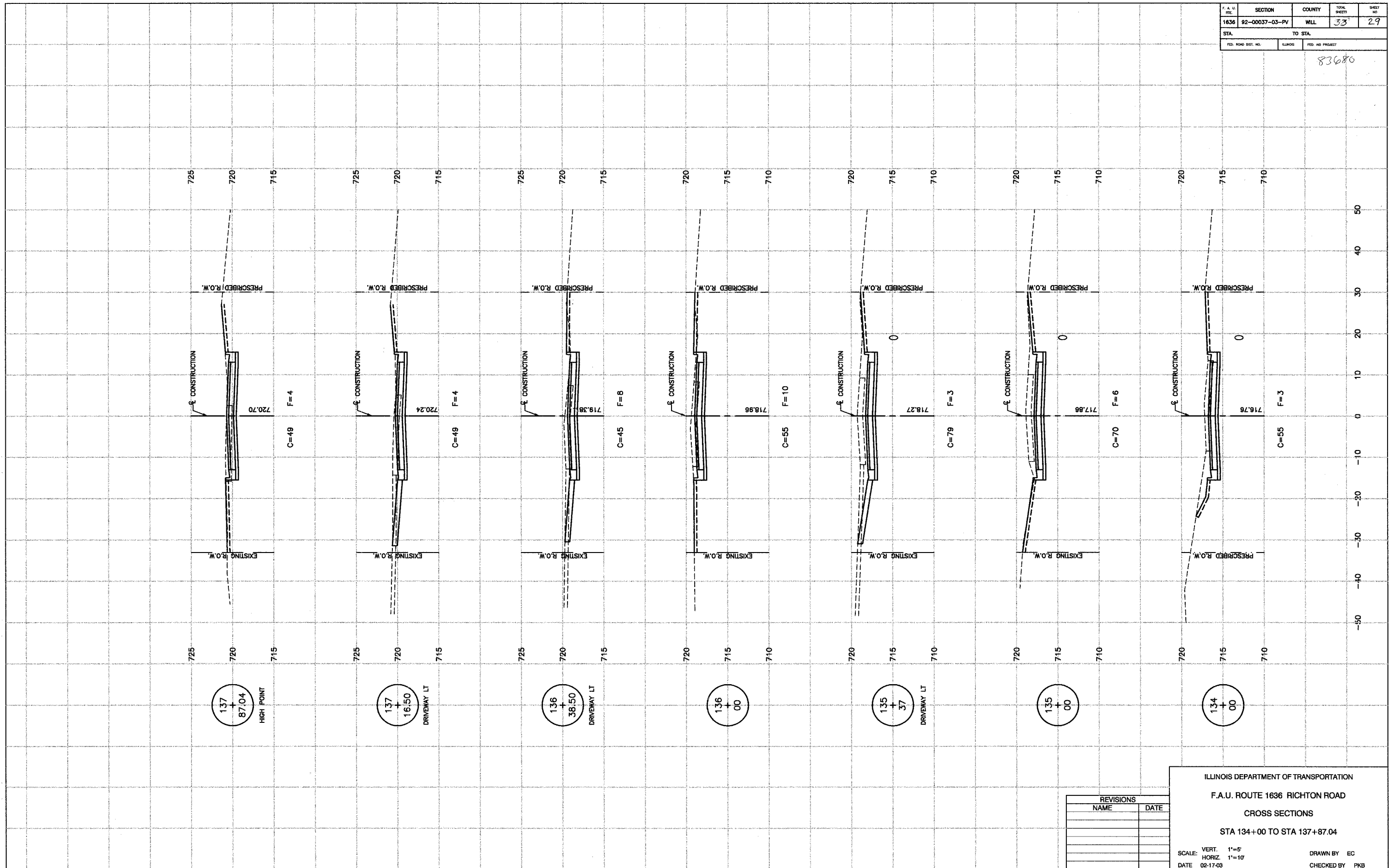


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1836 RICHTON ROAD
 CROSS SECTIONS
 STA 129+00 TO STA 133+00
 SCALE: VERT. 1"=5'
 HORIZ. 1"=10'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83680

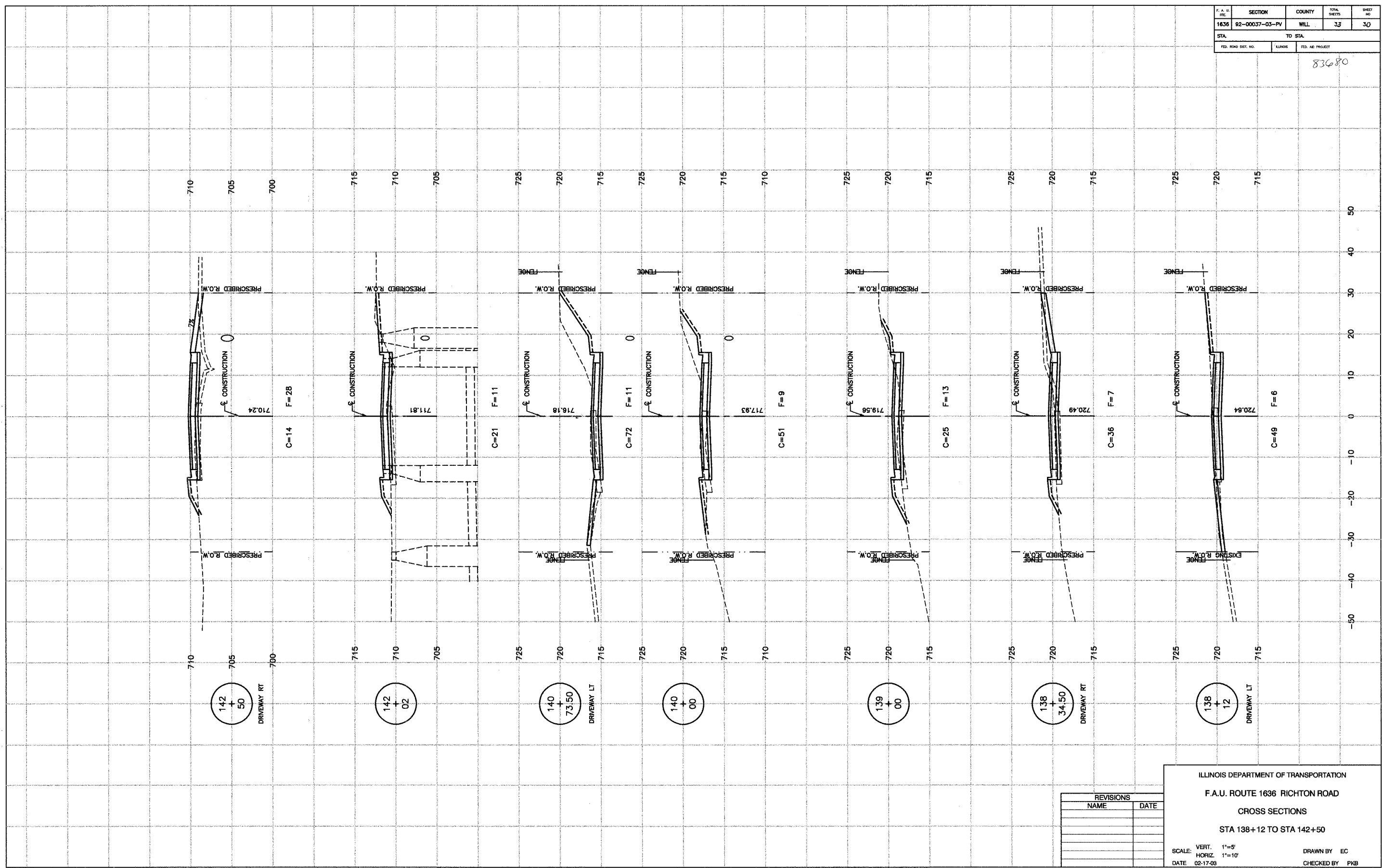


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 CROSS SECTIONS
 STA 134+00 TO STA 137+87.04
 SCALE: VERT. 1"=5'
 HORIZ. 1"=10'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB
 ROBINSON ENGINEERING, LTD.
 CONSULTING ENGINEERS, PROFESSIONAL ENGINEERS
 AND ARCHITECTS
 307 EAST THIRD STREET, SOUTH HOLLAND, ILLINOIS 60473-0388
 92819-XBCT-01

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	30
STA.	TO STA.			
FED. ROAD DIST. NO.	ALNOS	FED. AID PROJECT		

83680

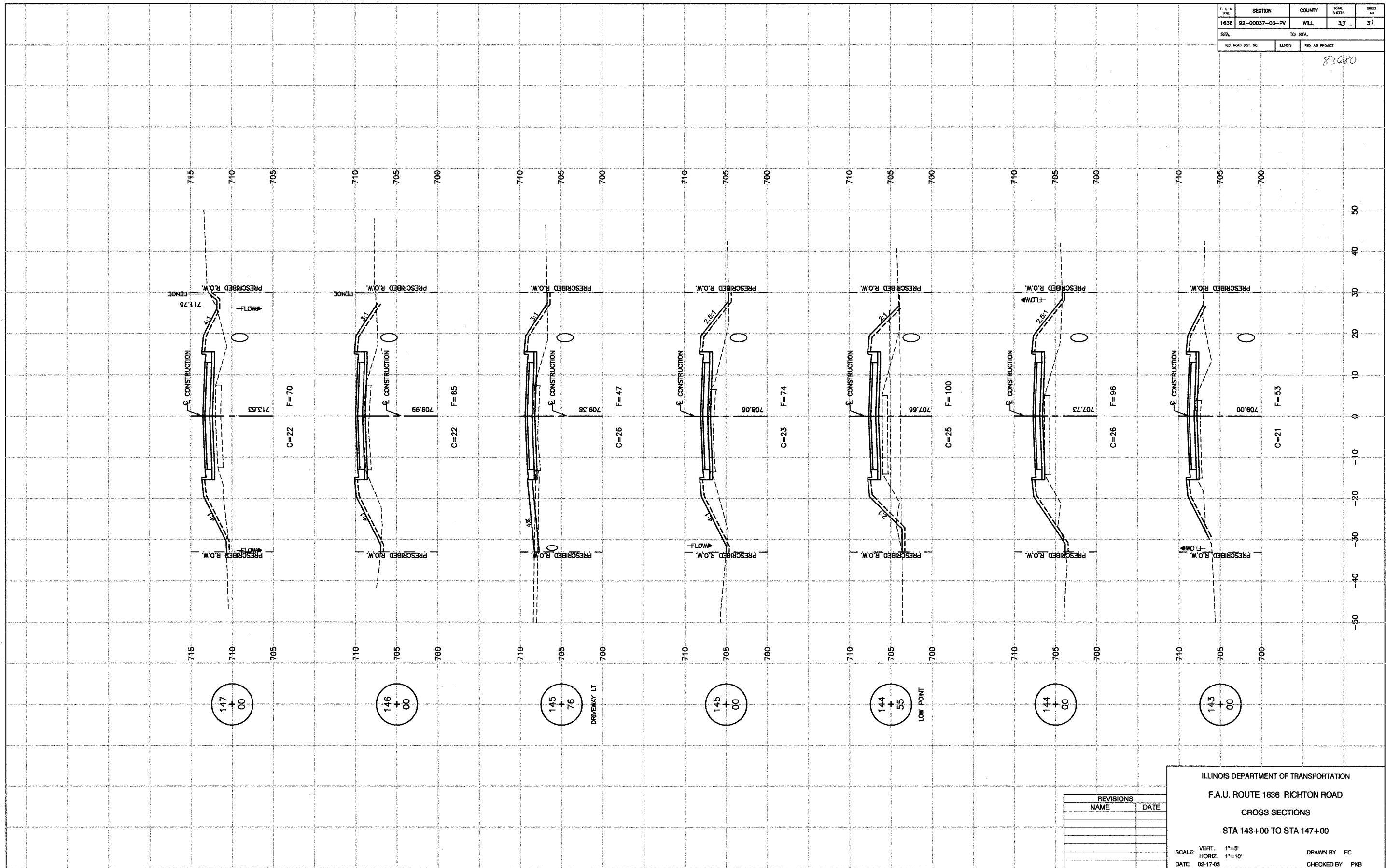


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 CROSS SECTIONS
 STA 138+12 TO STA 142+50
 SCALE: VERT. 1"=5'
 HORIZ. 1"=10'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	92-00037-03-PV	WILL	37	37
STA.	TO STA.			
FED. ROAD DIST. NO.	ALLOYS	FED. AID PROJECT		

83080

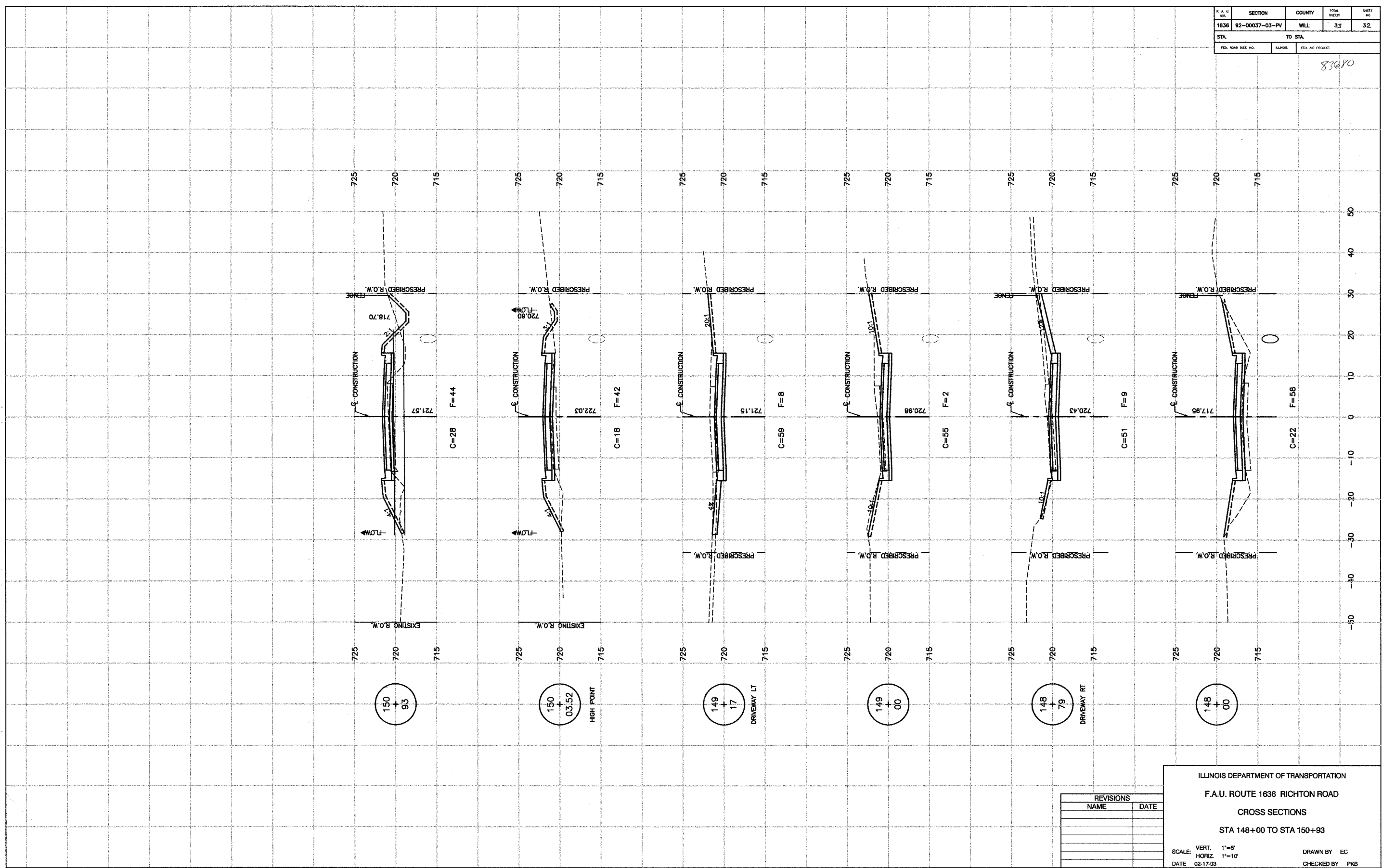


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 CROSS SECTIONS
 STA 143+00 TO STA 147+00
 SCALE: VERT. 1"=5'
 HORIZ. 1"=10'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB

F. A. U. R/O.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL	33	32
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

83080

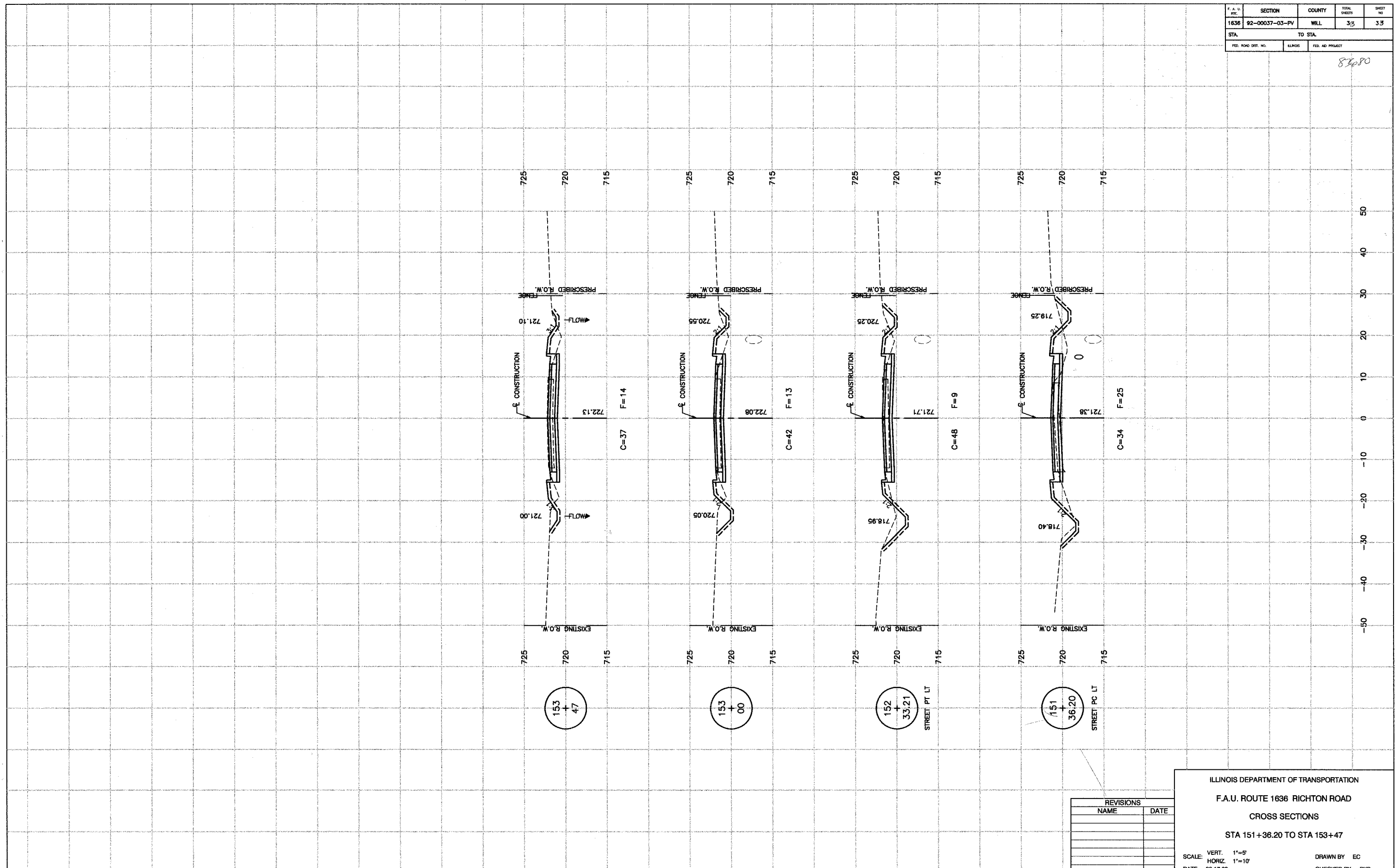


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 CROSS SECTIONS
 STA 148+00 TO STA 150+93
 SCALE: VERT. 1"=5'
 HORIZ. 1"=10'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1636	92-00037-03-PV	WILL.	33	33
STA.	TO STA.			
FED. ROAD DIST. NO.	ALMOS.	FED. AID PROJECT		

83680



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 1636 RICHTON ROAD
 CROSS SECTIONS
 STA 151+36.20 TO STA 153+47
 SCALE: VERT. 1"=5'
 HORIZ. 1"=10'
 DATE 02-17-03
 DRAWN BY EC
 CHECKED BY PKB

ROBINSON ENGINEERING, LTD.
 CONSULTING REGISTERED PROFESSIONAL ENGINEERS
 AND PROFESSIONAL LAND SURVEYORS
 307 EAST 170th STREET, SOUTH HOLLAND, ILLINOIS 60473-0388
 95013-XBCT-01