

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	1
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM - RURAL

INDEX OF SHEETS

1. COVER SHEET
2. SUMMARY OF QUANTITIES, SCHEDULES & NOTES
3. TYPICAL SECTIONS
- 4-14. PLAN & PROFILES
15. LITCHFIELD ROAD/ROUTE 4 INTERSECTION DETAILS
16. CULVERT DETAILS
- 17-43. STATION CROSS SECTIONS

SCALES

PLAN	0'	50'
PROFILE HORIZ.	0'	50'
PROFILE VERT.	0'	5'
CROSS SECTIONS-HORIZ.	0'	10'
CROSS SECTIONS-VERT.	0'	5'

SECTION 06-00086-00-PV
F.A.S. ROUTE 2729/C.H.3
MACOUPIN COUNTY
PROJECT ARA-RS-2729(105)
C-96-244-09

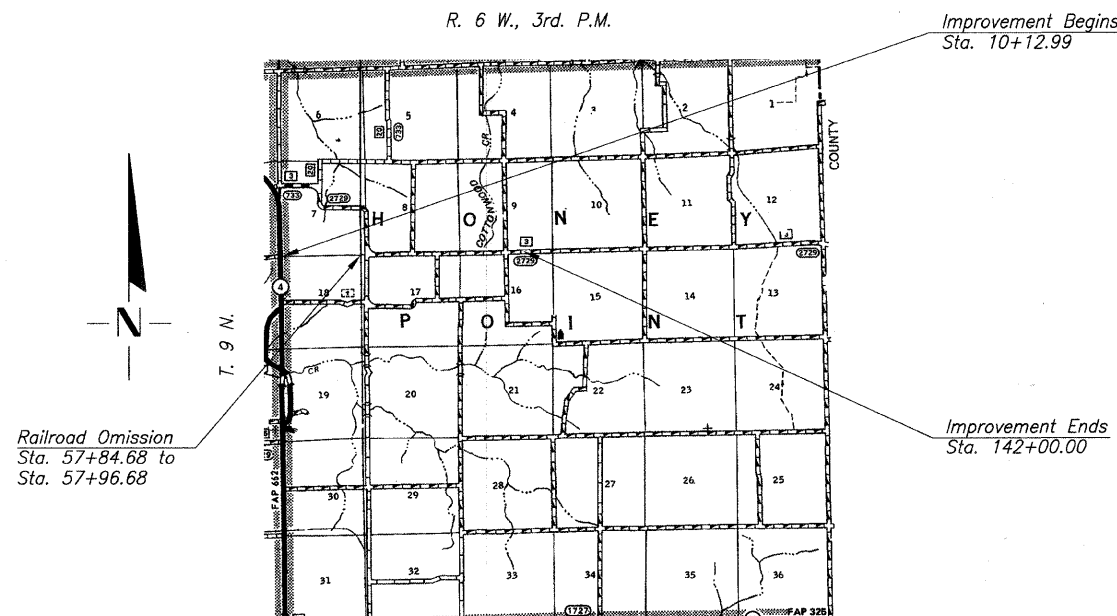
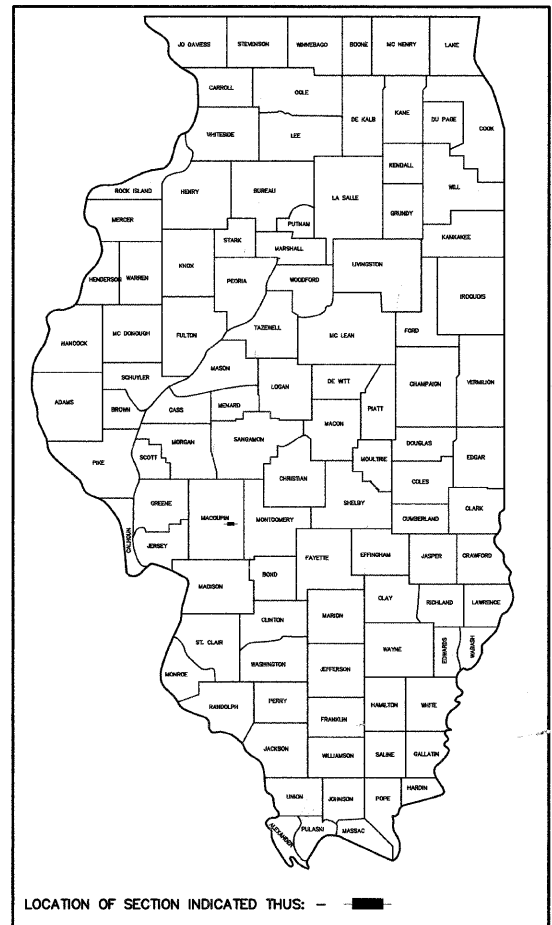
STANDARDS

- | | |
|-----------|---|
| 280001-05 | TEMPORARY EROSION CONTROL SYSTEMS |
| 542301-02 | PRECAST REINFORCED CONCRETE FLARED END SECTION |
| 542306-02 | PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION |
| 601001-03 | SUB-SURFACE DRAINS |
| 601101-01 | CONCRETE HEADWALL FOR PIPE DRAIN |
| 666001-01 | RIGHT OF WAY MARKERS |
| 701201-03 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701326-03 | LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH |
| 701901-01 | TRAFFIC CONTROL DEVICES |
| 780001-02 | TYPICAL PAVEMENT MARKINGS |
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS |
| BLR 21-8 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |

UTILITIES

MJM ELECTRIC COOPERATIVE
P.O. BOX 80
CARLINVILLE, ILLINOIS 62626

FRONTIER COMMUNICATIONS
225 NORTH BROAD STREET
CARLINVILLE, ILLINOIS 62626



LAYOUT

APPROXIMATE SCALE = 0 1 MILE

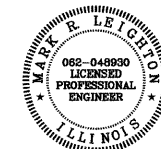
Net Length of Section = 13187.01 Feet - 12.00 = 13175.01 = 2.495 Miles

DESIGN FUNCTIONAL CLASSIFICATION:
MAJOR COLLECTOR 750-2000 ADT
DESIGN TRAFFIC: 900
DESIGN SPEED: 50 M.P.H.

CONTRACT NO. 93501

COOMBE-BLOXDORF P.C.
Consulting Engineers • Land Surveyors • Planners
706 South Grand Avenue West, Springfield, Illinois 62706 217/244-0477
Design Firm License No. 184-002703

Mark R. Deffen
ILLINOIS PROFESSIONAL NO. 48930 Expires 11-30-09



APPROVED September 16 2009
Thomas A Reinhart
COUNTY ENGINEER

PASSED October 14 2009
Tenace IdFountain KSC
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

PASSED October 14 2009
Ron Duchambeau
DISTRICT SIX ENGINEER OF CONSTRUCTION

Releasing For Bid Based on Limited Review October 14 2009
Roger J. Driskell KSC
DEPUTY DIRECTOR OF HIGHWAYS
REGIONAL FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOLL FREE JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS (J.U.L.I.E.)
TELEPHONE NUMBER 1-800-892-0123

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	2
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SUMMARY OF QUANTITIES CONSTRUCTION TYPE CODE 1000			
CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	14,700
20300100	CHANNEL EXCAVATION	CU YD	330
20400800	FURNISHED EXCAVATION	CU YD	13,775
20800150	TRENCH BACKFILL	CU YD	338
25001000	* SEEDING CLASS 2 (SPECIAL)	ACRE	12.6
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,875
28000305	TEMPORARY DITCH CHECKS	FOOT	540
28000400	PERIMETER EROSION BARRIER	FOOT	27,026
28100107	STONE RIPRAP, CLASS A4	SQ YD	185
28200200	FILTER FABRIC	SQ YD	185
35100100	AGGREGATE BASE COURSE, TYPE A	TON	16,493
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	462
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	464
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	928
40300500	COVER COAT AGGREGATE	TON	12
40300600	SEAL COAT AGGREGATE	TON	12
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	17,782
40600895	CONSTRUCTING TEST STRIP	EACH	2
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	7,391
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N50	TON	3,696
48100100	AGGREGATE SHOULDERS, TYPE A	TON	5,861
48203100	HOT-MIX ASPHALT SHOULDERS	TON	81
50100300	* REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
50100400	* REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
50800105	REINFORCEMENT BARS	POUND	1,130
54003000	CONCRETE BOX CULVERTS	CU YD	15.6
54020302	PRECAST CONCRETE BOX CULVERTS 3'X2' (M273)	FOOT	48
54020503	PRECAST CONCRETE BOX CULVERTS 5'X3' (M273)	FOOT	80
54020603	PRECAST CONCRETE BOX CULVERTS 6'X3' (M273)	FOOT	80
54020604	PRECAST CONCRETE BOX CULVERTS 6'X4' (M273)	FOOT	108
54020805	PRECAST CONCRETE BOX CULVERTS 8'X5' (M273)	FOOT	54
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15" (CSCP)	FOOT	90
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18" (CSCP)	FOOT	26
54205473	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18" (CSCP)	FOOT	30
54200439	PIPE CULVERTS, TYPE 1 RCCP 24"	FOOT	48
54201279	PIPE CULVERTS, TYPE 2 RCCP 24"	FOOT	98
54202119	PIPE CULVERTS, TYPE 3 RCCP 24"	FOOT	136
54206739	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE, EQUIVALENT ROUND-SIZE 24"	FOOT	45
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	6
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	2
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	60
60107600	PIPE UNDERDRAINS 4"	FOOT	25,650
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	360
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	54
67100100	MOBILIZATION	L SUM	1
70101700	* TRAFFIC CONTROL AND PROTECTION	L SUM	1
78001100	PAINT PAVEMENT MARKING-LETTERS AND SYMBOLS	SQ FT	122
78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	31,263
78001180	PAINT PAVEMENT MARKING-LINE 24"	FOOT	85
20013798	* CONSTRUCTION LAYOUT	L SUM	1
20048665	* RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
54001001	* BOX CULVERT END SECTION NO. 1	EACH	2
54001002	* BOX CULVERT END SECTION NO. 2	EACH	2
54001003	* BOX CULVERT END SECTION NO. 3	EACH	2
54001004	* BOX CULVERT END SECTION NO. 4	EACH	2
XX004981	* DEGRADING ROADWAY	SQ YD	6,800
54001005	* BOX CULVERT END SECTION NO. 5	EACH	2
54001006	* BOX CULVERT END SECTION NO. 6	EACH	2

*** SPECIAL PROVISION GENERAL NOTES**

A. SPECIALTY ITEMS

WHERE SECTION AND SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

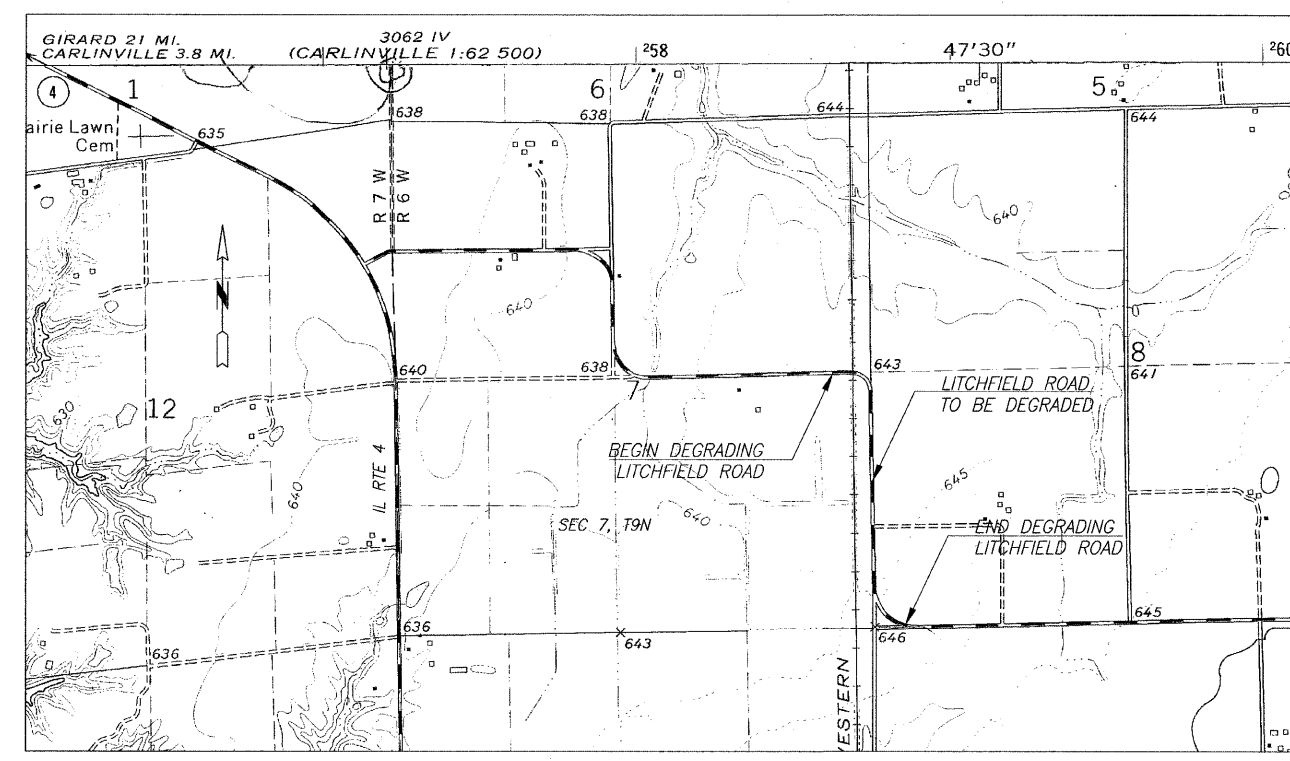
THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AND EASEMENTS AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 12.6 ACRES

ALL TREES THAT INTERFERE WITH CONSTRUCTION WITHIN THE R.O.W. AND EASEMENTS SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

THE COST OF REMOVAL OF ANY OBSTRUCTIONS OR CULVERTS NOT OTHERWISE INCLUDED IN REMOVAL OF EXISTING STRUCTURES WHICH INTERFERE WITH CONSTRUCTION WILL BE CONSIDERED INCIDENTAL TO THE COST OF EARTH EXCAVATION.

ALL PLAN ELEVATIONS REPRESENT U.S.G.S. DATUM.



DEGRADING PLAN

PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	PAINT PAVEMENT MARKING - LINE 4"		PAINT PAVEMENT MARKING - LINE 24"
		WHITE	YELLOW	
LITCHFIELD ROAD	SQUARE FOOT	FOOT	FOOT	FOOT
STA. 10+43 STOP BAR	-	-	-	19
E.B.L. STA. 53+87, STA. 54+37, STA. 57+72	-	-	-	33
W.B.L. STA. 58+06, STA. 61+41, STA. 61+91	-	-	-	33
STA. 10+20 TO STA. 141+50 CENTERLINE SKIP-DASH	-	-	3,290	-
STA. 10+20 TO STA. 11+38.94 EDGE LINES	-	351	-	-
STA. 11+38.94 TO STA. 141+50 EDGE LINES	-	25,622	-	-
E.B.L. STA. 54+12 W.B.L. STA. 61+66 (RR CROSSING)	122	-	-	-
E.B.L. 47+80 TO STA. 57+80 SOLID CENTERLINE NO PASSING	-	-	1,000	-
W.B.L. STA. 58+00 TO STA. 68+00 SOLID CENTERLINE NO PASSING	-	-	1,000	-
TOTALS	122	31,263	1,000	85

SIDEROAD & ENTRANCE SCHEDULE

STATION	ENTRANCE TYPE	W	L	CULVERT TYPE	CULVERT LENGTH	FILL VOLUME CY	AGG SURFACE TYPE B TON	PIPE TO BE REMOVED	SURFACE TYPE
LT 73+32	PE	14'	37'	15" CSCP	30'	41	22	15" CMP - 26'	AGG
RT 73+45	FE	20'	31'	15" CSCP	34'	49	-	15" CMP - 27'	DIRT
LT 86+75	SR CAVALIER	18'	30'	24" EQRS RCCP	45' (1)	27	47	24" CMP - 39'	AGG
LT 100+38	PE	14'	29'	18" CSCP	26'	21	17	18" CMP - 40'	AGG
RT 100+45	SR LILLY	18'	30'	3' x 2' PRECAST RCBC	48' (2)	41	47	24" CMP - 67'	AGG
RT 107+06	FE	20'	23'	18" EQRS CSCP	30'	18	-	15" CMP - 26'	DIRT
LT 114+00	FE	16'	23'	15" CSCP	26'	21	-	15" CMP - 23'	DIRT
TOTALS						218	133	248'	

(1) - 2 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTIONS
 (2) - 2 PRECAST REINFORCED CONCRETE FLARED END SECTIONS

ERECTING RIGHT OF WAY MARKERS

STATION	OFFSET (FEET)	EACH
LT 10+61.04	90.57	1
RT 10+58.98	89.42	1
LT 11+10.46	40.00	1
RT 11+09.55	40.00	1
LT & RT 13+50.00	40.00	2
LT & RT 14+50.00	50.00	2
LT & RT 15+50.00	50.00	2
LT & RT 16+50.00	40.00	2
LT & RT 25+00.00	40.00	2
LT & RT 26+00.00	50.00	2
LT & RT 27+00.00	50.00	2
LT & RT 28+00.00	40.00	2
LT & RT 45+00.00	40.00	2
LT & RT 46+00.00	50.00	2
LT & RT 48+00.00	50.00	2
LT & RT 49+00.00	40.00	2
LT & RT 53+00.00	40.00	2
LT & RT 56+00.00	60.00	2
LT 59+00.00	60.00	1
RT 60+17.45	54.10	1
LT & RT 61+00.00	50.00	2
LT & RT 80+00.00	50.00	2
LT & RT 81+00.00	40.00	2
LT 124+00.00	40.00	1
LT 125+00.00	50.00	1
RT 126+00.00	40.00	1
RT 127+00.00	50.00	1
LT & RT 128+00.00	50.00	2
LT & RT 129+00.00	40.00	2
RT 135+00.00	40.00	1
LT 136+00.00	40.00	1
RT 136+00.00	50.00	1
LT 137+00.00	50.00	1
LT 140+77.84	50.00	1
RT 140+78.43	50.00	1
TOTAL		54

SHEET TITLE

SUMMARY OF QUANTITIES

PROJECT: SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

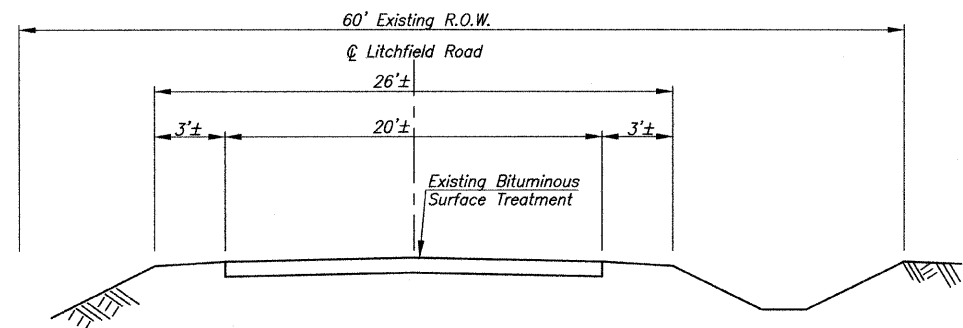
PROJECT NO. 03105
 SCALE
 DATE 09/11/09
 DRAWN BY PPW
 CHECKED BY MRL
 DRAWING NO.

COOMBE-BLOXDORF P.C.
 Engineers / Land Surveyors
 Springfield, Illinois
 Design Firm License No. 184-002703

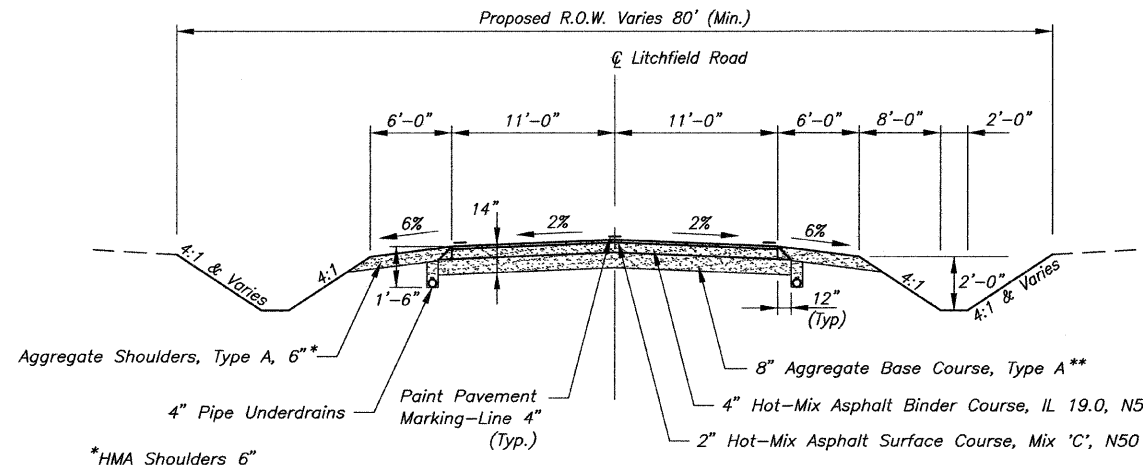
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OF 43 SHITS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	3
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



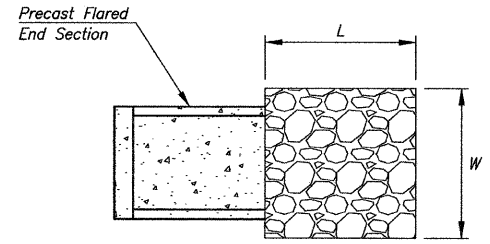
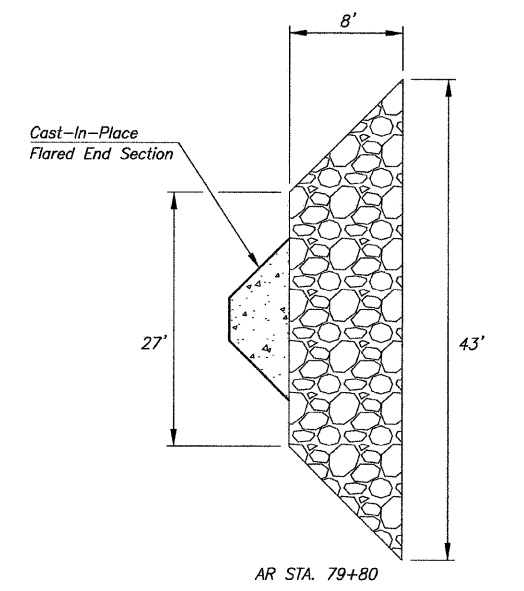
TYPICAL CROSS SECTION EXISTING ROAD
 Sta. 10+13 to Sta. 59+80 No Road
 Sta. 59+80 to Sta. 63+00 Dirt Road
 Sta. 63+00 to Sta. 142+00



PROPOSED TYPICAL CROSS SECTION
 Sta. 10+12.99 to Sta. 141+50.00

*HMA Shoulders 6" from IL RTE 4 to Sta. 11+38.94

**Aggregate Base Course extends 12" beyond HMA Shoulders from IL Rte 4 to Sta. 11+38.94



SEE SCHEDULE FOR W & L

RIPRAP DIAGRAM

RIPRAP SCHEDULE

LOCATION	STONE RIPRAP FILTER FABRIC		W	L
	U.S.	D.S.		
LITCHFIELD ROAD	SQ YD	SQ YD	FT	FT
STA. 15+10	4.33	4.33	6.5	6.0
STA. 26+50	9.00	9.00	9.0	9.0
STA. 47+00	7.11	7.11	8.0	8.0
STA. 57+38	4.33	4.33	6.5	6.0
STA. 58+32	4.33	4.33	6.5	6.0
STA. 79+80	31.11	31.11	-	-
STA. 127+50	12.22	12.22	11.0	10.0
LILLY ROAD				
RT. DITCH LINE	4.00	4.00	6.0	6.0
COTTONWOOD ROAD				
STA. 9+65.50	9.00	9.00	9.0	9.0
STA. 10+34.50	7.11	7.11	8.0	8.0
TOTALS	185			

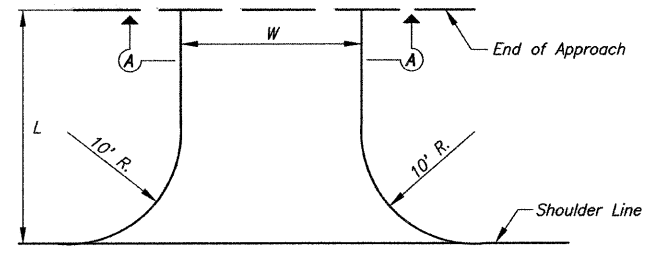
PAVEMENT DESIGN DATA

Design Period = 20 Years
 Structural Design Traffic (S.D.T.) = 900 Yr. 2013
 PV = 792 SU = 63 MU = 45
 Class III Route
 Percent of S.D.T. in Design Lane P=50 S=50 M=50
 Traffic Factor: T.F. = 0.24 (80 K)
 Minimum Soil Support: E_{RI} = 3.0
 Pavement Structure:
 Surface Course Type: 2" Hot-Mix Asphalt
 Binder Course Type: 4" Hot-Mix Asphalt
 Base Course Type: 8" Aggregate, Type A

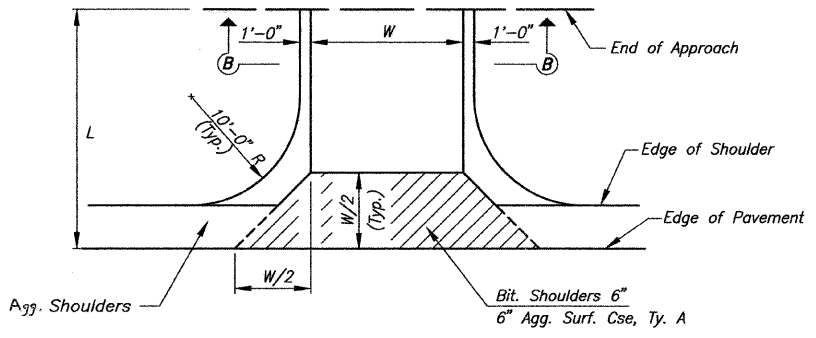
APPLICATION RATES USED IN QUANTITY CALCULATIONS

Granular Materials 2.05 TON/CU. YD.
 Hot-Mix Asphalt (Binder & Surface) 112 LB./SQ. YD./IN. DEPTH
 Bituminous Materials (Prime Coat) 0.50 GALLON/SQ. YD.
 Aggregate (Cover & Seal Coats) 25 LB./SQ. YD.
 Bituminous Materials (Cover & Seal Coats) 0.50 GALLON/SQ. YD.

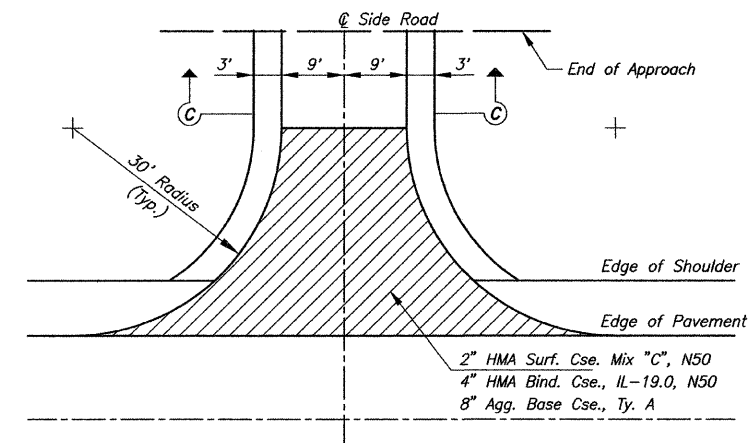
ITEM	HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
	ASPHALT GRADE	VOIDS	AGG. COMPOSITION (FRIC.)
HOT-MIX ASPHALT BINDER	PG 64-22	4.0% @ N50	IL-19.0
HOT-MIX ASPHALT SURFACE	PG 64-22	4.0% @ N50	IL-9.5 or 12.5 (MIX 'C')
HMA SHOULDERS	PG 58-22	2.0% @ N30	BAM/OTHER



FIELD ENTRANCE DETAIL

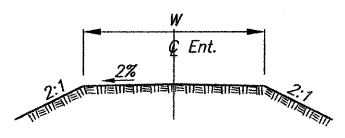


PRIVATE ENTRANCE DETAIL

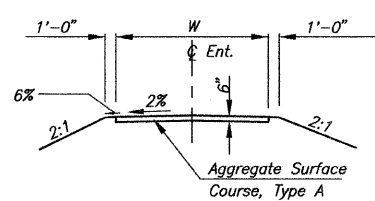


SIDE ROAD DETAIL

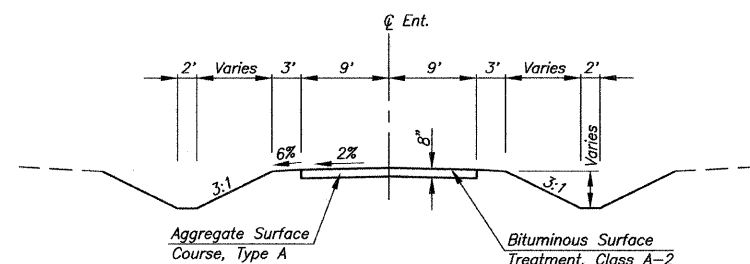
Rt. Sta. 59+86.89 Freemont Road
 Lt. Sta. 86+75.19 Cavalier Road
 Rt. Sta. 100+45.09 Lilly Lane
 Lt. Sta. 141+02.26 Cottonwood Road
 Rt. Sta. 141+08.59 Cottonwood Road



SECTION A-A



SECTION B-B



SECTION C-C

SHEET TITLE: TYPICAL CROSS SECTIONS

PROJECT: SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

PROJECT NO. 03105
 SCALE: AS SHOWN
 DATE: 09/11/09
 DRAWN BY: PPW
 CHECKED BY: MRL
 DRAWING NO. 3

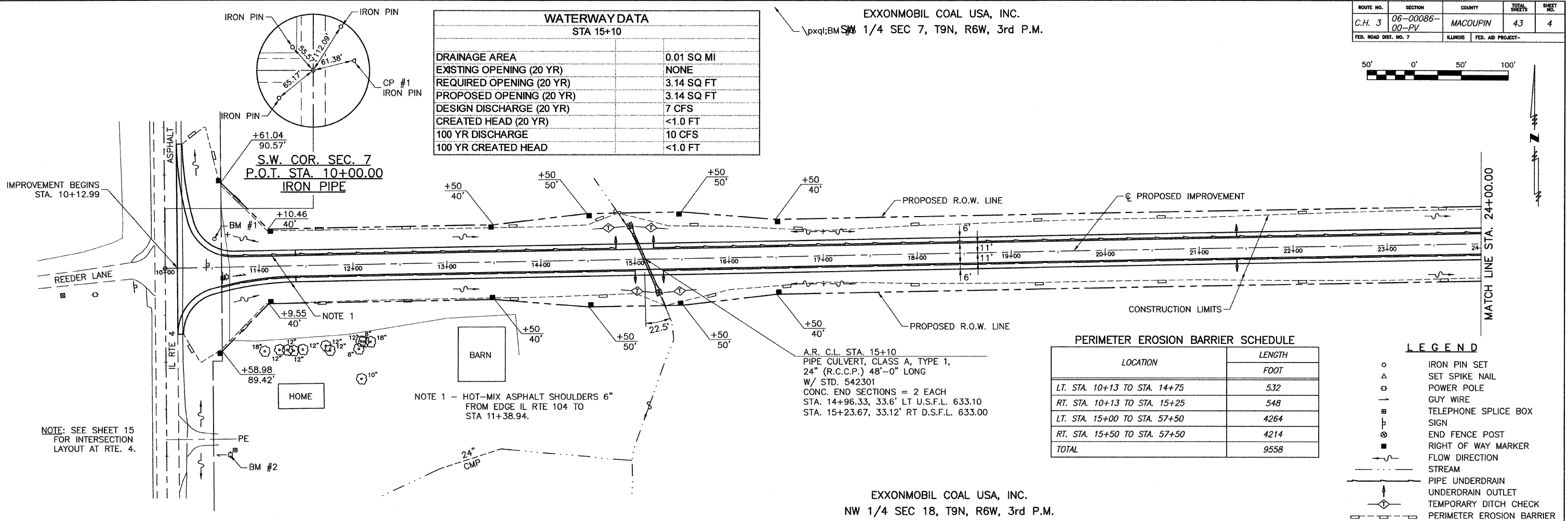
COOMBE-BLOXDORF P.C.
 Engineers / Land Surveyors
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OF 43 SHTS

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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

WATERWAY DATA STA 15+10	
DRAINAGE AREA	0.01 SQ MI
EXISTING OPENING (20 YR)	NONE
REQUIRED OPENING (20 YR)	3.14 SQ FT
PROPOSED OPENING (20 YR)	3.14 SQ FT
DESIGN DISCHARGE (20 YR)	7 CFS
CREATED HEAD (20 YR)	<1.0 FT
100 YR DISCHARGE	10 CFS
100 YR CREATED HEAD	<1.0 FT

EXXONMOBIL COAL USA, INC.
NW 1/4 SEC 7, T9N, R6W, 3rd P.M.



PERIMETER EROSION BARRIER SCHEDULE	
LOCATION	LENGTH FOOT
LT. STA. 10+13 TO STA. 14+75	532
RT. STA. 10+13 TO STA. 15+25	548
LT. STA. 15+00 TO STA. 57+50	4264
RT. STA. 15+50 TO STA. 57+50	4214
TOTAL	9558

- LEGEND**
- IRON PIN SET
 - △ SET SPIKE NAIL
 - POWER POLE
 - GUY WIRE
 - ⊕ TELEPHONE SPLICE BOX
 - ⊙ SIGN
 - ⊗ END FENCE POST
 - RIGHT OF WAY MARKER
 - FLOW DIRECTION
 - STREAM
 - PIPE UNDERDRAIN
 - ⊕ UNDERDRAIN OUTLET
 - TEMPORARY DITCH CHECK
 - PERIMETER EROSION BARRIER

EXXONMOBIL COAL USA, INC.
NW 1/4 SEC 18, T9N, R6W, 3rd P.M.

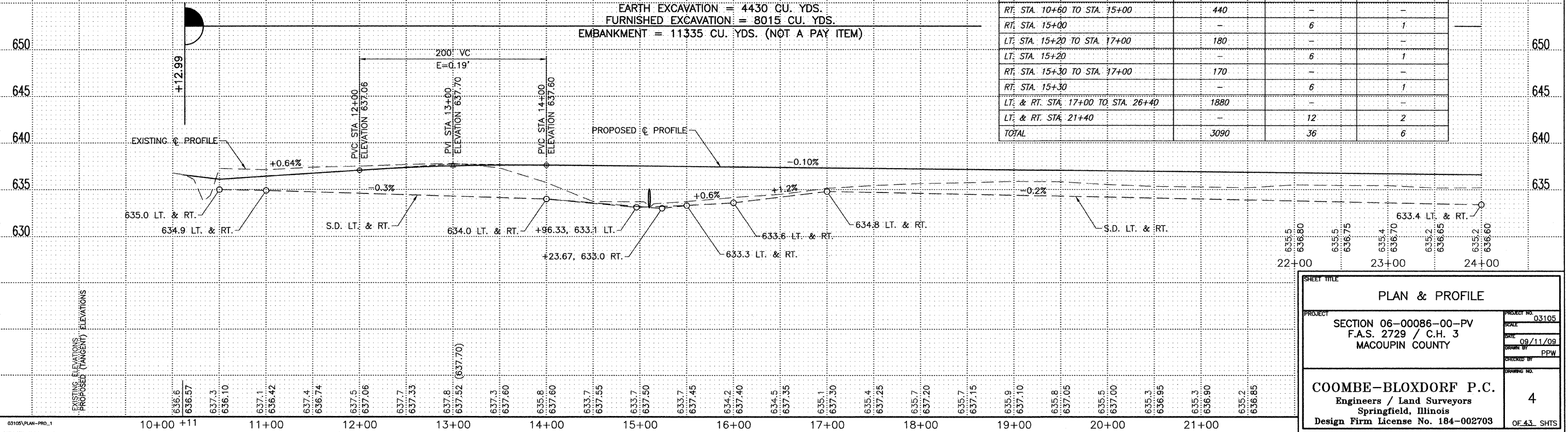
BM #1 ~ BM 'D' - 5/8" REBAR IN EAST R.O.W. OF IL RTE 4
±300' NORTH OF BM #2
30.8' LT. STA. 10+53
ELEV. 637.54

BM #2 ~ BM-75A - R.R. SPIKE IN POWER POLE ON
EAST SIDE OF IL RTE 4
200.4' RT. STA. 10+65
ELEV. 638.64

BM #3 ~ TBM 'A' - METAL FENCE POST BURIED
±15' DEEP IN BEAN FIELD
266.1' LT. STA. 16+53
ELEV. 636.00

UNDERDRAIN SCHEDULE			
LOCATION	PIPE UNDERDRAIN 4"	PIPE UNDERDRAIN 4" (SPECIAL)	CONCRETE HEADWALL FOR PIPE DRAINS
	FOOT	FOOT	EACH
LT. STA. 10+60 TO STA. 14+80	420	-	-
LT. STA. 14+80	-	6	1
RT. STA. 10+60 TO STA. 15+00	440	-	-
RT. STA. 15+00	-	6	1
LT. STA. 15+20 TO STA. 17+00	180	-	-
LT. STA. 15+20	-	6	1
RT. STA. 15+30 TO STA. 17+00	170	-	-
RT. STA. 15+30	-	6	1
LT. & RT. STA. 17+00 TO STA. 26+40	1880	-	-
LT. & RT. STA. 21+40	-	12	2
TOTAL	3090	36	6

EARTH EXCAVATION = 4430 CU. YDS.
FURNISHED EXCAVATION = 8015 CU. YDS.
EMBANKMENT = 11335 CU. YDS. (NOT A PAY ITEM)



SHEET TITLE
PLAN & PROFILE

PROJECT
SECTION 06-00086-00-PV
F.A.S. 2729 / C.H. 3
MACOUPIN COUNTY

PROJECT NO. 03105
SCALE
DATE 09/11/09
DRAWN BY PPW
CHECKED BY
DRAWING NO.

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

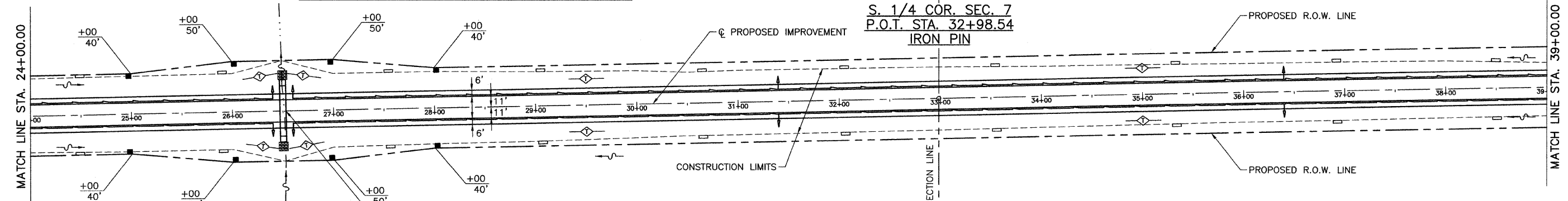
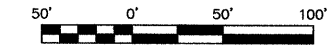
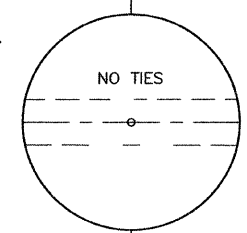
4
OF 43 SHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	5
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

WATERWAY DATA	
STA 26+50	
DRAINAGE AREA	0.108 SQ MI
EXISTING OPENING (20 YR)	NONE
REQUIRED OPENING (20 YR)	18 SQ FT
PROPOSED OPENING (20 YR)	18 SQ FT
DESIGN DISCHARGE (20 YR)	68 CFS
CREATED HEAD (20 YR)	<1.0 FT
100 YR DISCHARGE	101 CFS
100 YR CREATED HEAD	<1.0 FT

EXXONMOBIL COAL USA, INC.
SW 1/4 SEC 7, T9N, R6W, 3rd P.M.

EXXONMOBIL COAL USA, INC.
SE 1/4 SEC 7, T9N, R6W, 3rd P.M.



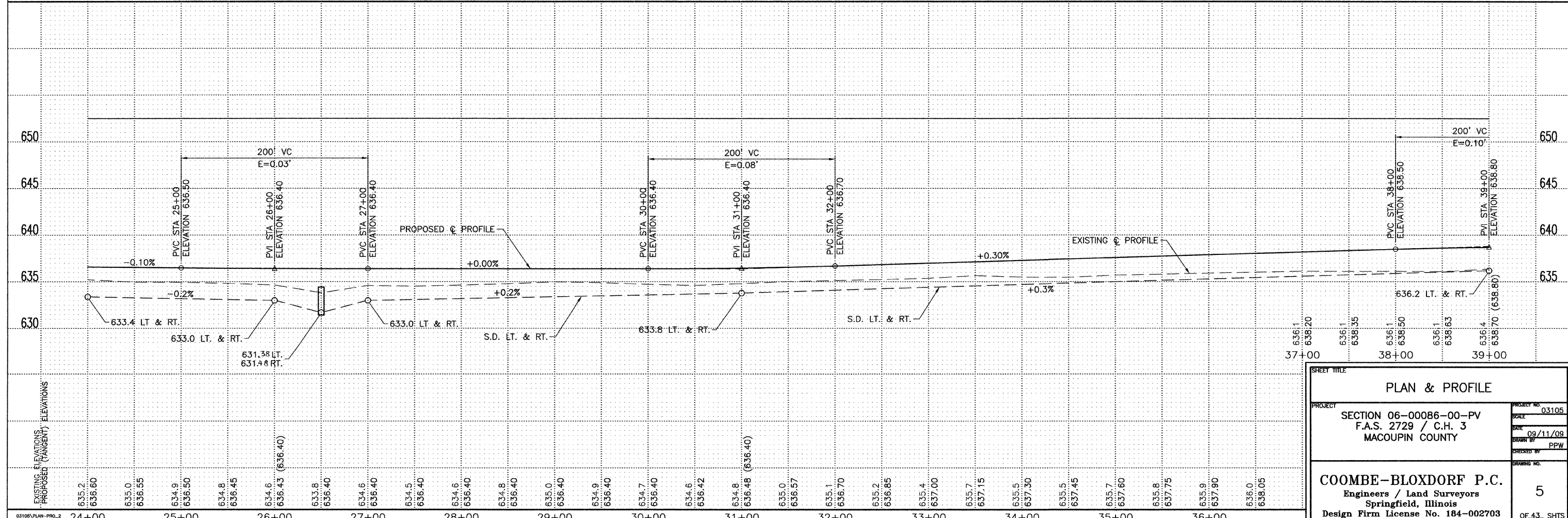
A.R. STA. 26+50 CULVERT NO. 1
6' X 3' X 50' PRECAST REINFORCED CONCRETE BOX CULVERT AND END SECTIONS (M273)
31' RT, U.S.F.L. 631.48
31' LT, D.S.F.L. 631.38
FILL HEIGHT < 2'

LOCATION	PIPE UNDERDRAIN	PIPE UNDERDRAIN	CONCRETE HEADWALL
	4" FOOT	4" (SPECIAL) FOOT	FOR PIPE DRAINS EACH
LT. & RT. STA. 26+40	-	12	2
LT. & RT. STA. 26+60 TO STA. 39+00	2480	-	-
LT. & RT. STA. 26+60	-	12	2
LT. & RT. STA. 31+40	-	12	2
LT. & RT. STA. 36+40	-	12	2
TOTAL	2480	48	8

- LEGEND**
- IRON PIN SET
 - △ SET SPIKE NAIL
 - POWER POLE
 - GUY WIRE
 - ⊞ TELEPHONE SPLICE BOX
 - ⊞ SIGN
 - ⊞ END FENCE POST
 - ⊞ RIGHT OF WAY MARKER
 - FLOW DIRECTION
 - STREAM
 - PIPE UNDERDRAIN
 - ⊞ UNDERDRAIN OUTLET
 - ⊞ TEMPORARY DITCH CHECK
 - ⊞ PERIMETER EROSION BARRIER

EXXONMOBIL COAL USA, INC.
NW 1/4 SEC 18, T9N, R6W, 3rd P.M.

EXXONMOBIL COAL USA, INC.
NE 1/4 SEC 18, T9N, R6W, 3rd P.M.



PLAN & PROFILE

PROJECT: SECTION 06-00086-00-PV
F.A.S. 2729 / C.H. 3
MACOUPIN COUNTY

PROJECT NO: 03105
SCALE: AS SHOWN
DATE: 09/11/09
DRAWN BY: PPW
CHECKED BY: []
DRAWING NO. 5

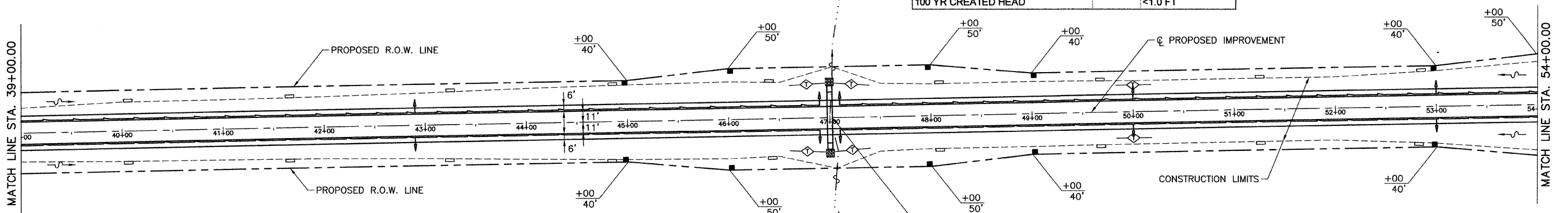
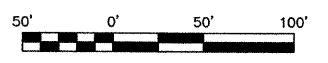
COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

OF 43 SHTS

EXXONMOBIL COAL USA, INC.
SE 1/4 SEC 7, T9N, R6W, 3rd P.M.

WATERWAY DATA STA 47+00	
DRAINAGE AREA	0.052 SQ MI
EXISTING OPENING (20 YR)	NONE
REQUIRED OPENING (20 YR)	15 SQ FT
PROPOSED OPENING (20 YR)	15 SQ FT
DESIGN DISCHARGE (20 YR)	61CFS
CREATED HEAD (20 YR)	<1.0 FT
100 YR DISCHARGE	93 CFS
100 YR CREATED HEAD	<1.0 FT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	6

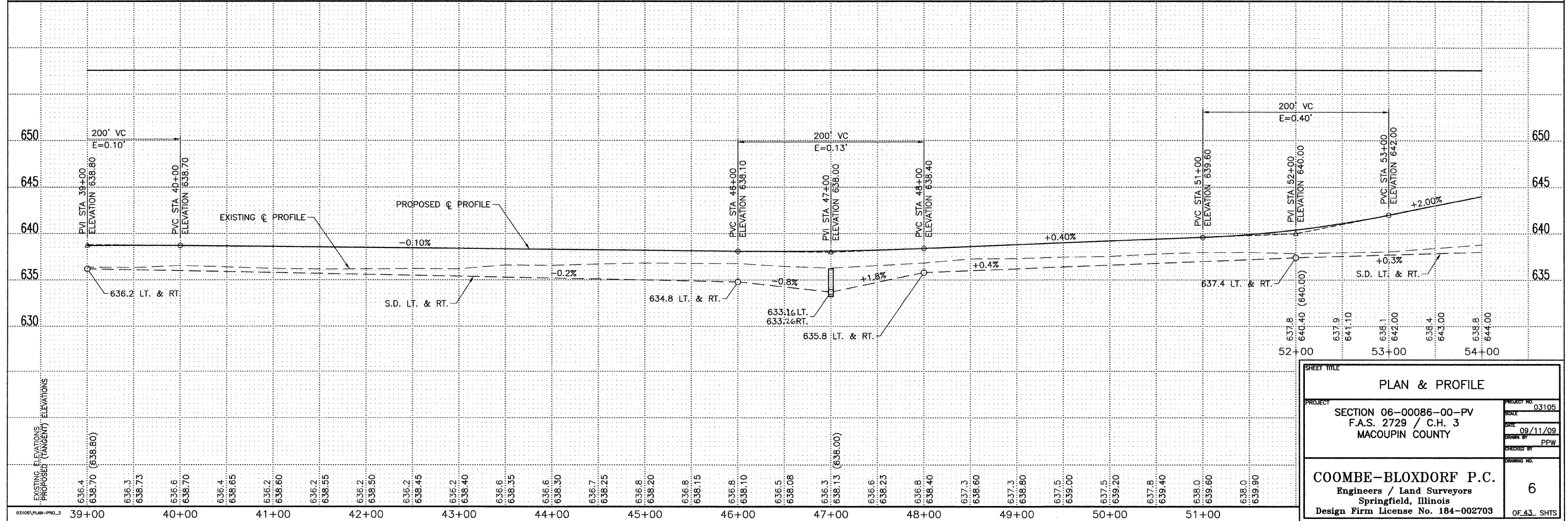


LOCATION	PIPE UNDERDRAIN		CONCRETE HEADWALL FOR PIPE DRAINS
	4"	4" (SPECIAL)	
LT. & RT. STA. 39+00 TO STA. 46+90	1580	-	-
LT. & RT. STA. 42+90	-	12	2
LT. & RT. STA. 46+90	-	12	2
LT. & RT. STA. 47+10 TO STA. 57+80	2140	-	-
LT. & RT. STA. 47+10	-	12	2
LT. & RT. STA. 50+00	-	12	2
LT. & RT. STA. 53+00	-	12	2
TOTAL	3720	60	10

A.R. STA. 47+00 CUVERT NO. 2
5' X 3' X 50' PRECAST REINFORCED CONCRETE BOX CULVERT AND END SECTIONS (M273)
31' RT, U.S.F.L. 633.26
31' LT, D.S.F.L. 633.16
FILL HEIGHT < 2'

EXXONMOBIL COAL USA, INC.
NE 1/4 SEC 18, T9N, R6W, 3rd P.M.

LEGEND	
○	IRON PIN SET
△	SET SPIKE NAIL
□	POWER POLE
— —	GUY WIRE
⊠	TELEPHONE SPLICE BOX
⊞	SIGN
⊞	END FENCE POST
⊞	RIGHT OF WAY MARKER
→	FLOW DIRECTION
—	STREAM
—	PIPE UNDERDRAIN
⊥	UNDERDRAIN OUTLET
—	TEMPORARY DITCH CHECK
—	PERIMETER EROSION BARRIER



SHEET TITLE		
PLAN & PROFILE		
PROJECT	SECTION 06-00086-00-PV F.A.S. 2729 / C.H. 3 MACOUPIN COUNTY	PROJECT NO. 03105
DATE	09/11/09	SCALE
DRAWN BY	PPW	CHECKED BY
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703		6
		OF 43 SHTS

EXXONMOBIL COAL USA, INC.
SE 1/4 SEC 7, T9N, R6W, 3rd P.M.

EXXONMOBIL COAL USA, INC.
SW 1/4 SEC 8, T9N, R6W, 3rd P.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	7
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

A.R. STA. 58+32
PIPE CULVERTS, CLASS A, TYPE 2
24" (R.C.C.P.) - 98' LONG
W/ STD. 542301 CONC. END
SECTIONS = 2 EACH
54' LT, U.S.F.L. 639.10
56' RT, D.S.F.L. 638.50

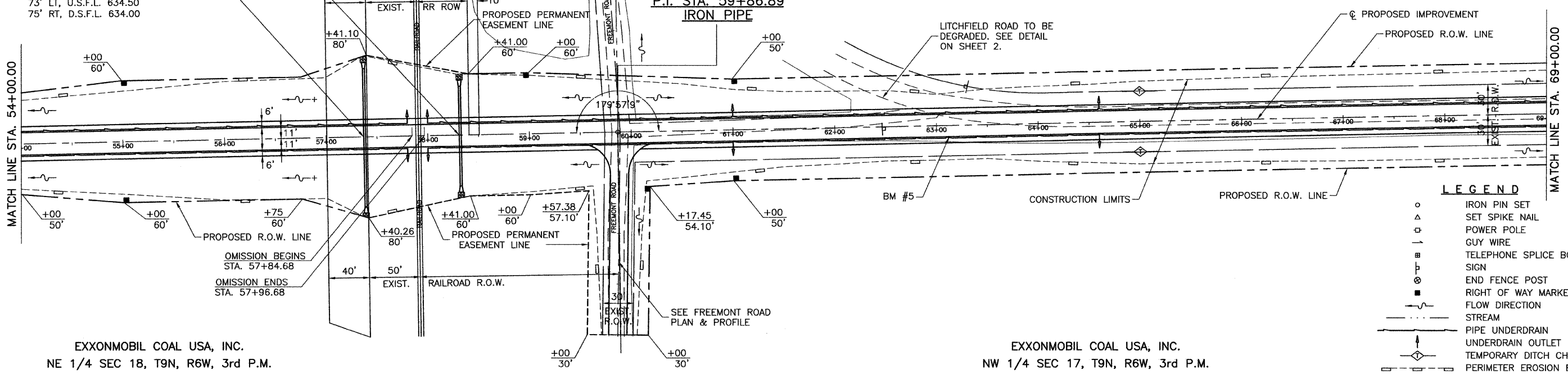
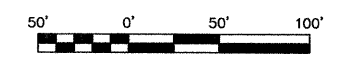
A.R. STA. 57+38
PIPE CULVERTS, CLASS A, TYPE 3
24" (R.C.C.P.) - 136' LONG
W/ STD. 542301 CONC. END
SECTIONS = 2 EACH
73' LT, U.S.F.L. 634.50
75' RT, D.S.F.L. 634.00

Easement from ExxonMobil Coal USA, Inc. to Union Pacific Railroad Document 480709 Macoupin County Recorder Macoupin County, Illinois

S.E. COR. SEC. 7
P.I. STA. 59+86.89
IRON PIPE

UNDERDRAIN SCHEDULE

LOCATION	PIPE UNDERDRAIN 4"	PIPE UNDERDRAIN 4" (SPECIAL)	CONCRETE HEADWALL FOR PIPE DRAINS
	FOOT	FOOT	EACH
LT. & RT. STA. 58+00 TO STA. 79+60	4320	-	-
LT. & RT. STA. 61+00	-	12	2
LT. & RT. STA. 64+60	-	12	2
TOTAL	4320	24	4

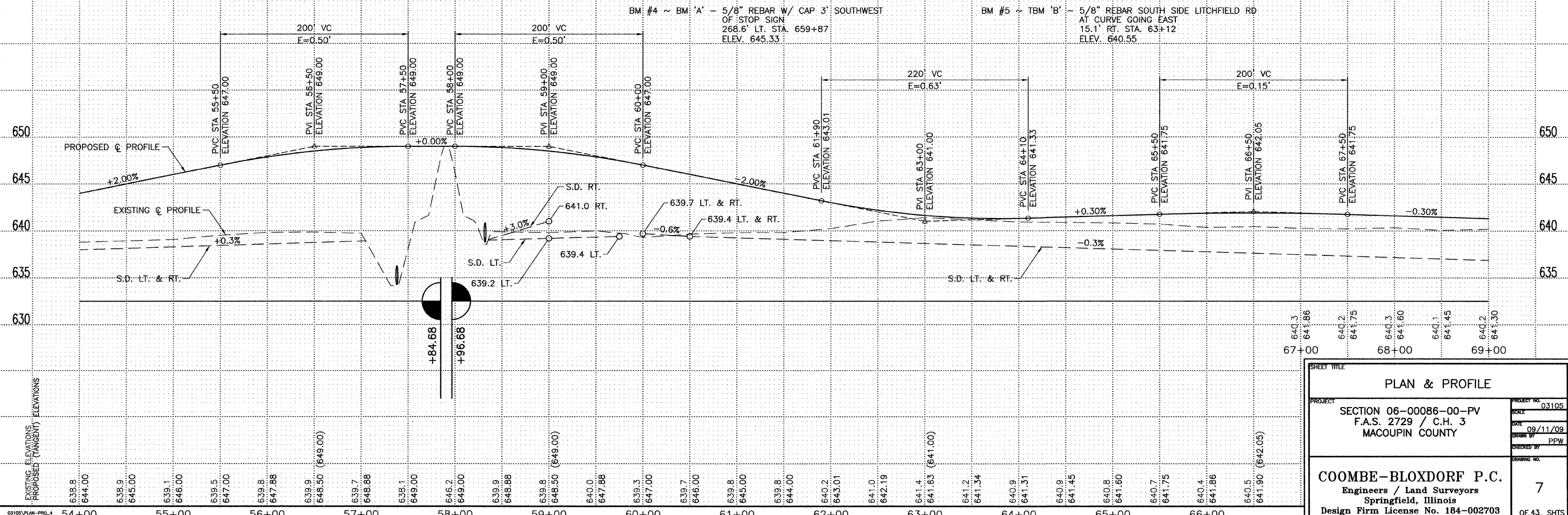


EXXONMOBIL COAL USA, INC.
NE 1/4 SEC 18, T9N, R6W, 3rd P.M.

EXXONMOBIL COAL USA, INC.
NW 1/4 SEC 17, T9N, R6W, 3rd P.M.

LEGEND

- IRON PIN SET
- △ SET SPIKE NAIL
- POWER POLE
- GUY WIRE
- ⊕ TELEPHONE SPLICE BOX
- ⊖ SIGN
- ⊗ END FENCE POST
- ⊙ RIGHT OF WAY MARKER
- FLOW DIRECTION
- STREAM
- PIPE UNDERDRAIN
- ⊥ UNDERDRAIN OUTLET
- ⊕ TEMPORARY DITCH CHECK
- ⊖ PERIMETER EROSION BARRIER



SHEET TITLE
PLAN & PROFILE

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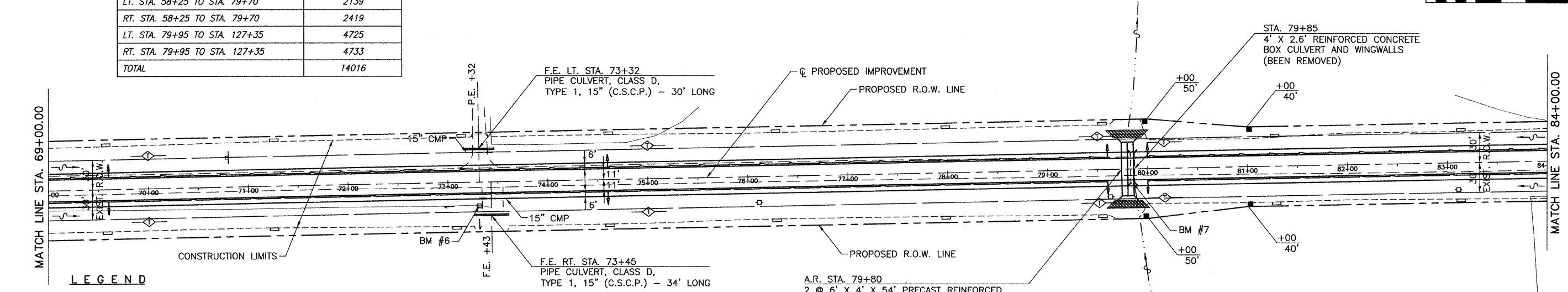
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OF 43 SHTS

EXXONMOBIL COAL USA, INC.
SW 1/4 SEC 8, T9N, R6W, 3rd P.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	8
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

PERIMETER EROSION BARRIER SCHEDULE

LOCATION	LENGTH
	FOOT
LT. STA. 58+25 TO STA. 79+70	2139
RT. STA. 58+25 TO STA. 79+70	2419
LT. STA. 79+95 TO STA. 127+35	4725
RT. STA. 79+95 TO STA. 127+35	4733
TOTAL	14016



LEGEND

- IRON PIN SET
- △ SET SPIKE NAIL
- POWER POLE
- GUY WIRE
- ⊠ TELEPHONE SPLICE BOX
- SIGN
- ⊞ END FENCE POST
- RIGHT OF WAY MARKER
- FLOW DIRECTION
- STREAM
- PIPE UNDERDRAIN
- UNDERDRAIN OUTLET
- ◇ TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER

UNDERDRAIN SCHEDULE

LOCATION	PIPE UNDERDRAIN 4"	PIPE UNDERDRAIN 4" (SPECIAL)	CONCRETE HEADWALL FOR PIPE DRAINS
	FOOT	FOOT	EACH
LT. & RT. STA. 69+60	-	12	2
LT. & RT. STA. 74+60	-	12	2
LT. & RT. STA. 79+60	-	12	2
LT. & RT. STA. 80+00 TO STA. 120+00	8000	-	-
LT. & RT. STA. 80+00	-	12	2
TOTAL	8000	48	8

A.R. STA. 79+80
2 @ 6' X 4' X 54' PRECAST REINFORCED CONCRETE BOX CULVERT M273 AND CAST-IN-PLACE HEADWALLS AND WINGWALLS
27' RT, U.S.F.L. 632.30
27' LT, D.S.F.L. 632.09
SEE SHEET 16 OF 43 FOR HEADWALL DETAILS
FILL HEIGHT < 2'

WATERWAY DATA

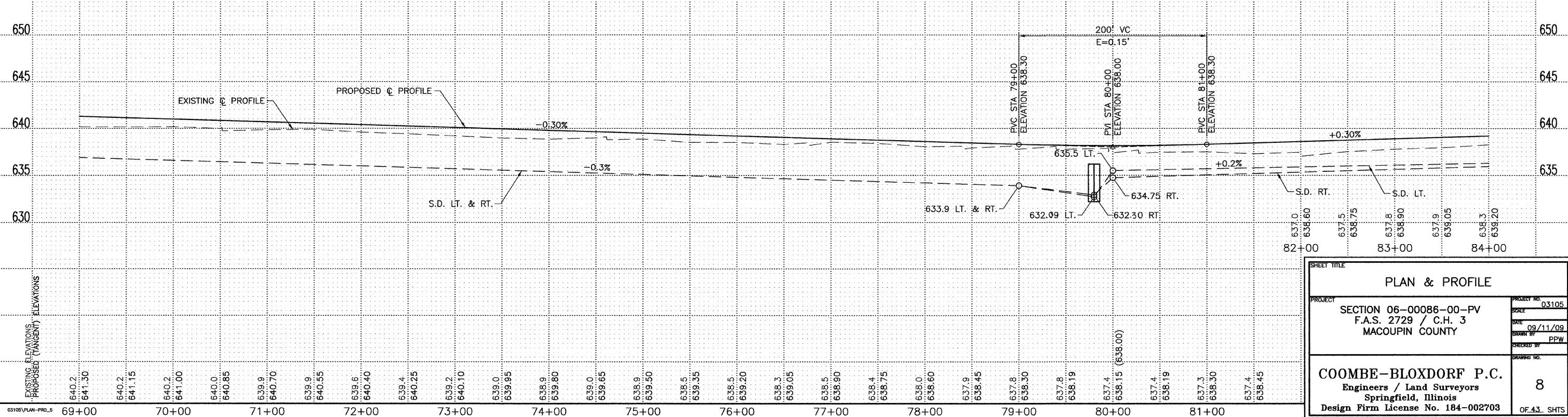
STA 79+85	
DRAINAGE AREA	0.402 SQ MI
EXISTING OPENING (20 YR)	10.4 SQ FT
REQUIRED OPENING (20 YR)	48 SQ FT
PROPOSED OPENING (20 YR)	48 SQ FT
DESIGN DISCHARGE (20 YR)	192 CFS
CREATED HEAD (20 YR)	<1.0 FT
100 YR DISCHARGE	284 CFS
100 YR CREATED HEAD	<1.0 FT

EXXONMOBIL COAL USA, INC.
NW 1/4 SEC 17, T9N, R6W, 3rd P.M.

BM #6 ~ TBM 'C' - R.R. SPIKE IN POWER POLE
1ST POWER POLE WEST END LITCHFIELD RD
26.8' RT. STA: 73+31
ELEV. 639.85

BM #7 ~ TBM 'D' - CHISELED "□" ON SOUTH HEADWALL
OF BOX CULVERT
15.9' RT. STA. 79+85
ELEV. 673.54

EARTH EXCAVATION = 10,270 CU. YDS.
FURNISHED EXCAVATION = 5,760 CU. YDS.
EMBANKMENT = 13,460 CU. YDS. (NOT A PAY ITEM)



SHEET TITLE

PLAN & PROFILE

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MACOUPIN COUNTY

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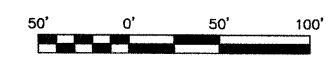
COOMBE-BLOXDRF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

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OF 43 SHTS

EXXONMOBIL COAL USA, INC.
SW 1/4 SEC 8, T9N, R6W, 3rd P.M.

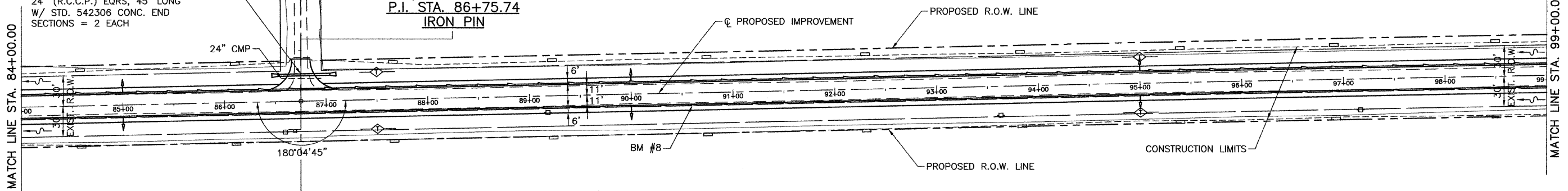
EXXONMOBIL COAL USA, INC.
SE 1/4 SEC 8, T9N, R6W, 3rd P.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	9
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



STA. 86+75 SIDE ROAD (CAVALIER ROAD)
PIPE CULVERT, CLASS HE-IV, TYPE 1
24" (R.C.C.P.) EQRS, 45' LONG
W/ STD. 542306 CONC. END
SECTIONS = 2 EACH

S. 1/4 COR. SEC. 8
P.I. STA. 86+75.74
IRON PIN



UNDERDRAIN SCHEDULE

LOCATION	PIPE UNDERDRAIN 4"	PIPE UNDERDRAIN 4" (SPECIAL)	CONCRETE HEADWALL FOR PIPE DRAINS
	FOOT	FOOT	EACH
LT. & RT. STA. 85+00	-	12	2
LT. & RT. STA. 90+00	-	12	2
LT. & RT. STA. 95+00	-	12	2
TOTAL	-	36	6

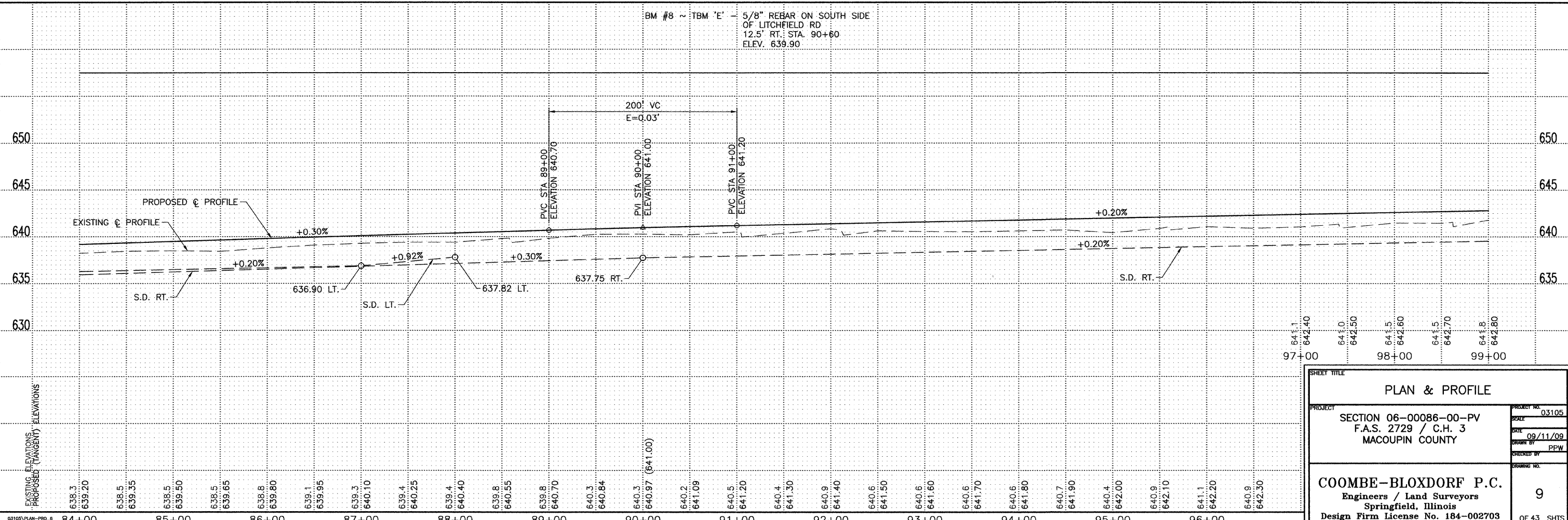
LEGEND

- IRON PIN SET
- △ SET SPIKE NAIL
- POWER POLE
- GUY WIRE
- ⊠ TELEPHONE SPLICE BOX
- ⊥ SIGN
- ⊙ END FENCE POST
- RIGHT OF WAY MARKER
- FLOW DIRECTION
- ~ STREAM
- PIPE UNDERDRAIN
- ↑ UNDERDRAIN OUTLET
- ◇ TEMPORARY DITCH CHECK
- - - PERIMETER EROSION BARRIER

EXXONMOBIL COAL USA, INC.
NW 1/4 SEC 17, T9N, R6W, 3rd P.M.

EXXONMOBIL COAL USA, INC.
NE 1/4 SEC 17, T9N, R6W, 3rd P.M.

BM #8 ~ TBM 'E' - 5/8" REBAR ON SOUTH SIDE
OF LITCHFIELD RD
12.5' RT. STA. 90+60
ELEV. 639.90



PLAN & PROFILE

PROJECT: SECTION 06-00086-00-PV
F.A.S. 2729 / C.H. 3
MACOUPIN COUNTY

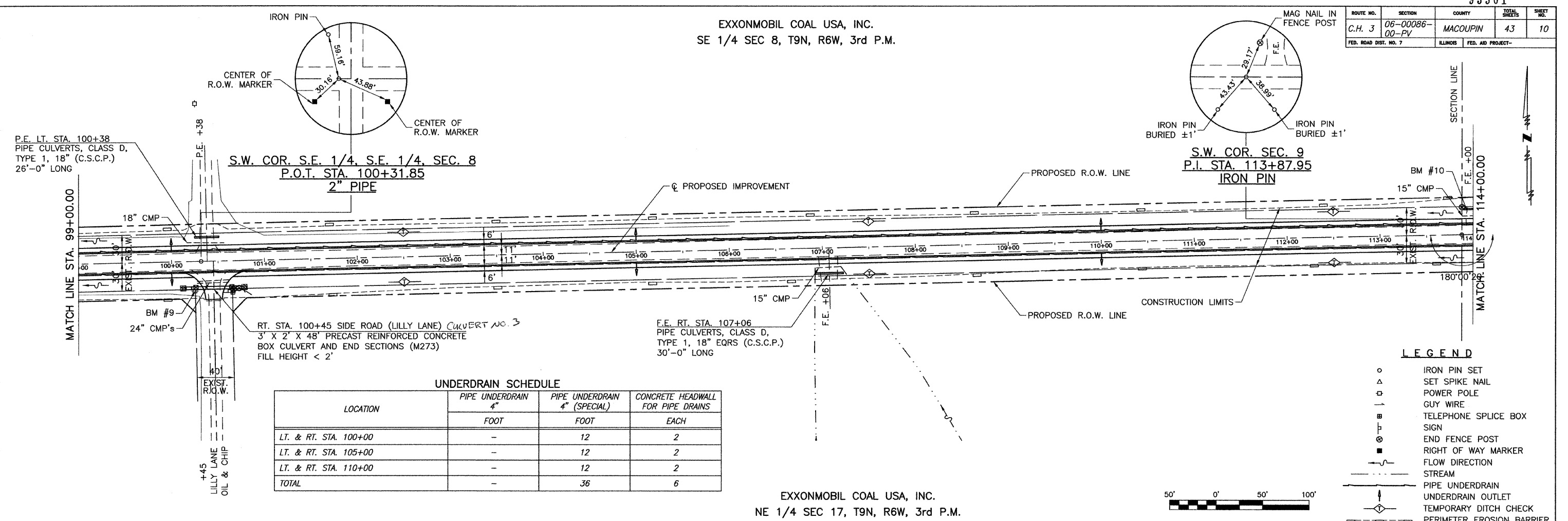
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Springfield, Illinois
Design Firm License No. 184-002703

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OF 43 SHTS

EXXONMOBIL COAL USA, INC.
SE 1/4 SEC 8, T9N, R6W, 3rd P.M.

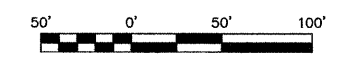
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	10
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



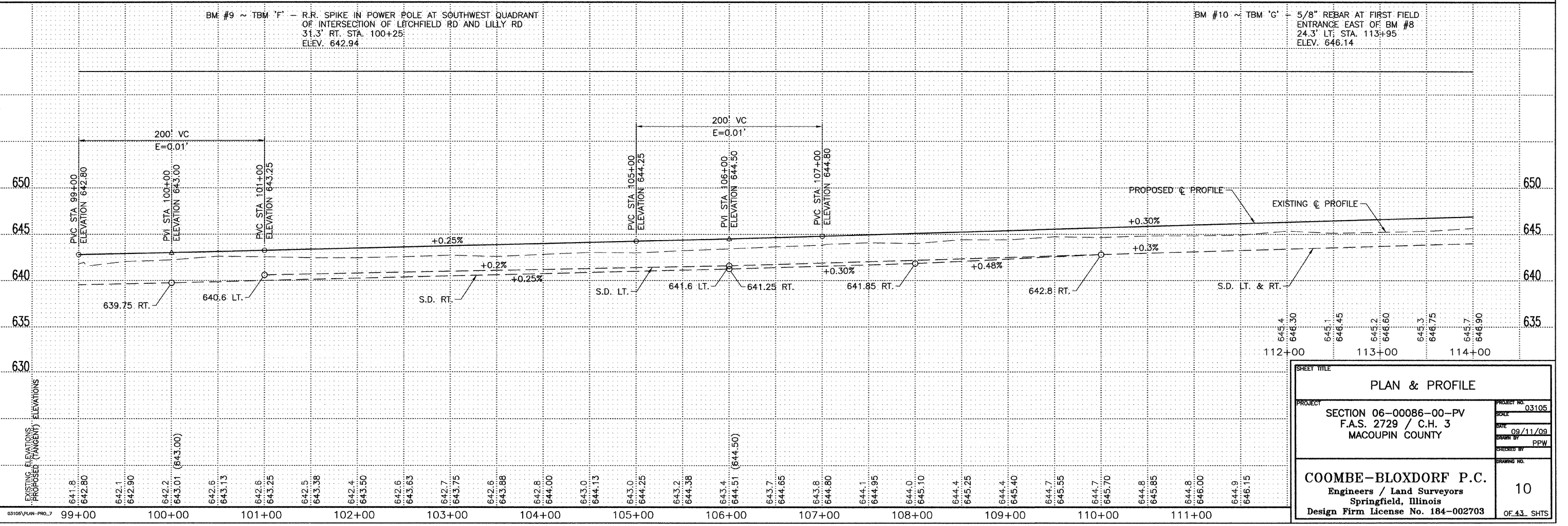
UNDERDRAIN SCHEDULE

LOCATION	PIPE UNDERDRAIN 4"	PIPE UNDERDRAIN 4" (SPECIAL)	CONCRETE HEADWALL FOR PIPE DRAINS
	FOOT	FOOT	EACH
LT. & RT. STA. 100+00	-	12	2
LT. & RT. STA. 105+00	-	12	2
LT. & RT. STA. 110+00	-	12	2
TOTAL	-	36	6

- LEGEND**
- IRON PIN SET
 - △ SET SPIKE NAIL
 - POWER POLE
 - GUY WIRE
 - ⊞ TELEPHONE SPLICE BOX
 - ⊞ SIGN
 - ⊞ END FENCE POST
 - ⊞ RIGHT OF WAY MARKER
 - FLOW DIRECTION
 - STREAM
 - PIPE UNDERDRAIN
 - UNDERDRAIN OUTLET
 - TEMPORARY DITCH CHECK
 - PERIMETER EROSION BARRIER



EXXONMOBIL COAL USA, INC.
NE 1/4 SEC 17, T9N, R6W, 3rd P.M.



SHEET TITLE
PLAN & PROFILE

PROJECT
SECTION 06-00086-00-PV
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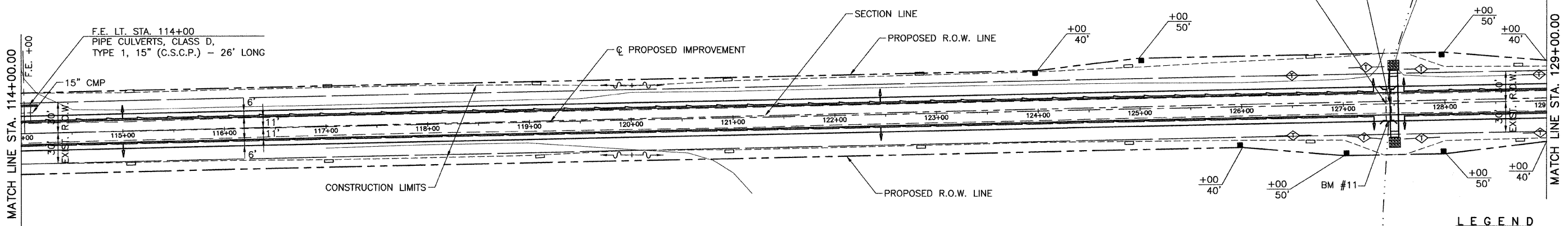
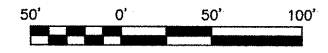
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Springfield, Illinois
Design Firm License No. 184-002703

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OF 43 SHTS

EXXONMOBIL COAL USA, INC.
SW 1/4 SEC 9, T9N, R6W, 3rd P.M.

A.R. STA. 127+50 CULVERT NO. 4
8' X 5' X 54' PRECAST REINFORCED
CONCRETE BOX CULVERT AND
END SECTIONS (M273)
33' RT, U.S.F.L. 639.55
33' LT, D.S.F.L. 639.35
FILL HEIGHT < 2'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	11
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



UNDERDRAIN SCHEDULE

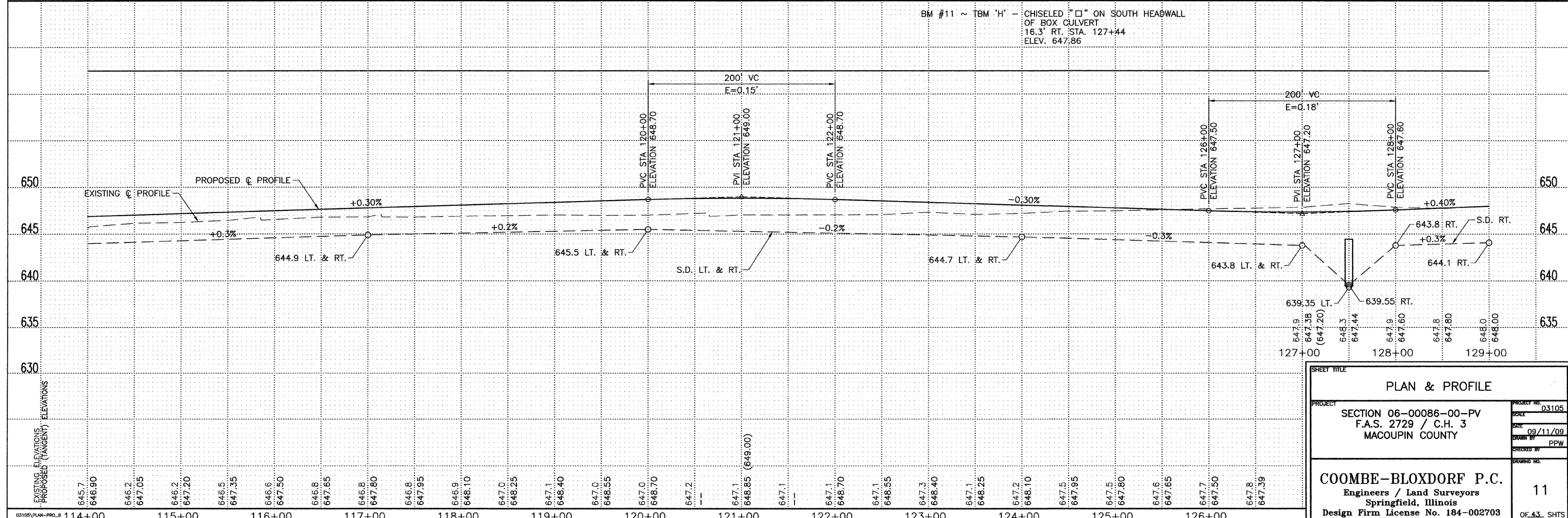
LOCATION	PIPE UNDERDRAIN 4"	PIPE UNDERDRAIN 4" (SPECIAL)	CONCRETE HEADWALL FOR PIPE DRAINS
	FOOT	FOOT	EACH
LT. & RT. STA. 115+00	-	12	2
LT. & RT. STA. 120+00 TO STA. 127+30	1490	-	-
LT. & RT. STA. 122+45	-	12	2
LT. & RT. STA. 127+30	-	12	2
LT. & RT. STA. 127+60 TO STA. 140+50	2580	-	-
LT. & RT. STA. 127+60	-	12	2
TOTAL	4070	48	8

WATERWAY DATA	
STA 127+50	
DRAINAGE AREA	0.448 SQ MI
EXISTING OPENING (20 YR)	10.4 SQ FT
REQUIRED OPENING (20 YR)	40 SQ FT
PROPOSED OPENING (20 YR)	40 SQ FT
DESIGN DISCHARGE (20 YR)	189 CFS
CREATED HEAD (20 YR)	<1.0 FT
100 YR DISCHARGE	247 CFS
100 YR CREATED HEAD	<1.0 FT

- LEGEND**
- IRON PIN SET
 - △ SET SPIKE NAIL
 - POWER POLE
 - ⊥ GUY WIRE
 - ⊞ TELEPHONE SPLICE BOX
 - ⊟ SIGN
 - ⊠ END FENCE POST
 - RIGHT OF WAY MARKER
 - FLOW DIRECTION
 - STREAM
 - PIPE UNDERDRAIN
 - ⊕ UNDERDRAIN OUTLET
 - ⊖ TEMPORARY DITCH CHECK
 - ⊘ PERIMETER EROSION BARRIER

EXXONMOBIL COAL USA, INC.
NW 1/4 SEC 16, T9N, R6W, 3rd P.M.

BM #11 ~ TBM 'H' - CHISELED "□" ON SOUTH HEADWALL OF BOX CULVERT
16.3' RT. STA. 127+44
ELEV. 647.86



SHEET TITLE

PLAN & PROFILE

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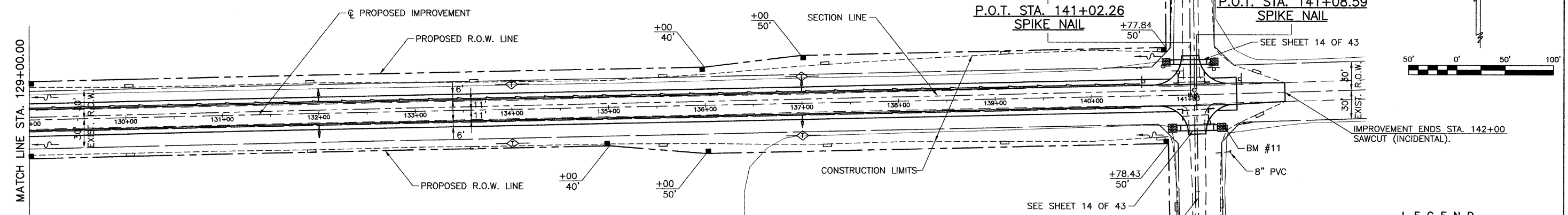
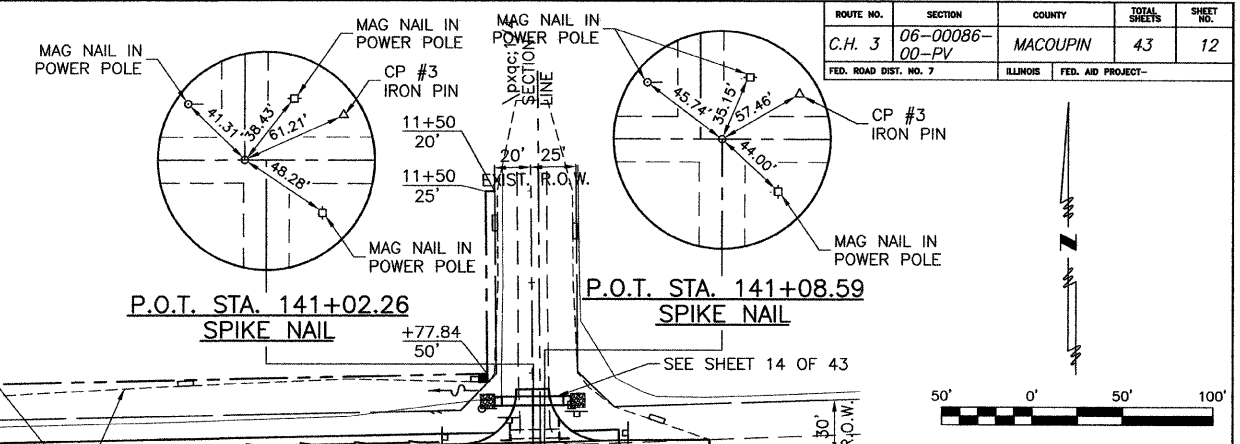
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OF 43 SHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	12
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

PERIMETER EROSION BARRIER SCHEDULE

LOCATION	LENGTH
	FOOT
LT. STA. 127+65 TO STA. 142+00	1728
RT. STA. 127+65 TO STA. 142+00	1724
TOTAL	3452

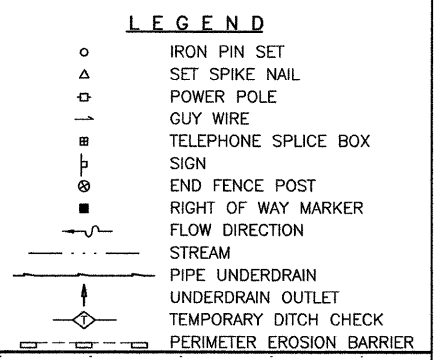
EXXONMOBIL COAL USA, INC.
SW 1/4 SEC 9, T9N, R6W, 3rd P.M.



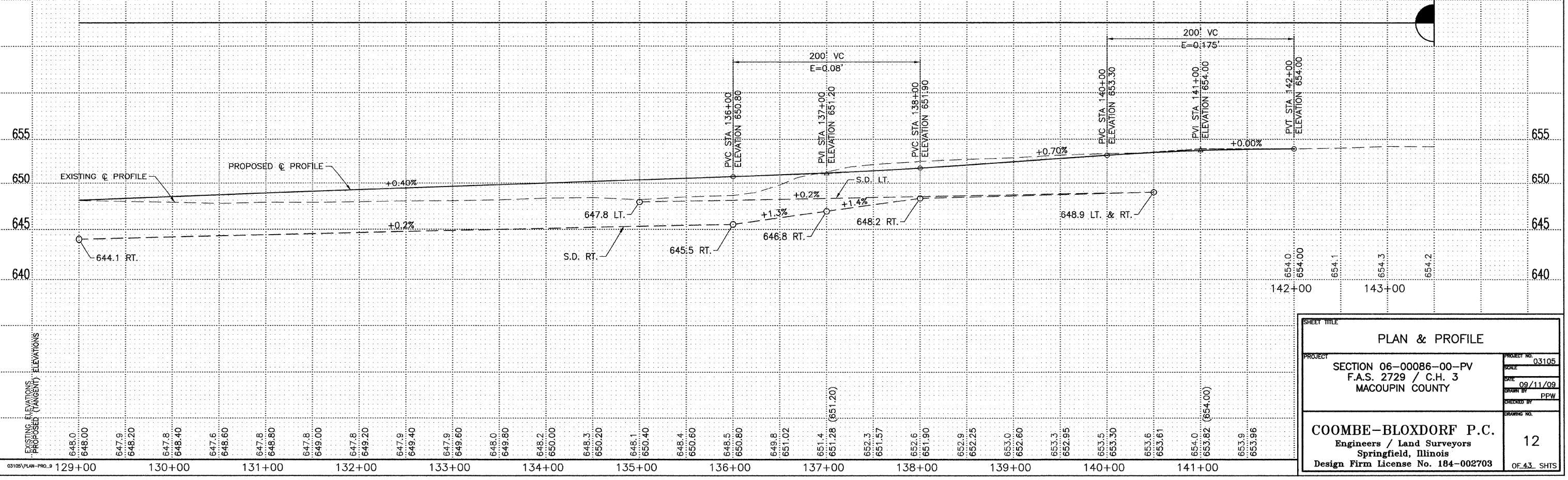
UNDERDRAIN SCHEDULE

LOCATION	PIPE UNDERDRAIN 4"	PIPE UNDERDRAIN 4" (SPECIAL)	CONCRETE HEADWALL FOR PIPE DRAINS
	FOOT	FOOT	EACH
LT. & RT. STA. 132+00	-	12	2
LT. & RT. STA. 137+00	-	12	2
TOTAL	-	24	4

EXXONMOBIL COAL USA, INC.
NW 1/4 SEC 16, T9N, R6W, 3rd P.M.



BM #11 ~ TBM 'J' - RR SPIKE IN POWER POLE AT SOUTHEAST QUADRANT OF INTERSECTION OF LITCHFIELD RD AND COTTONWOOD RD
33.8' RT. STA. 141+36
ELEV. 654.95



SHEET TITLE
PLAN & PROFILE

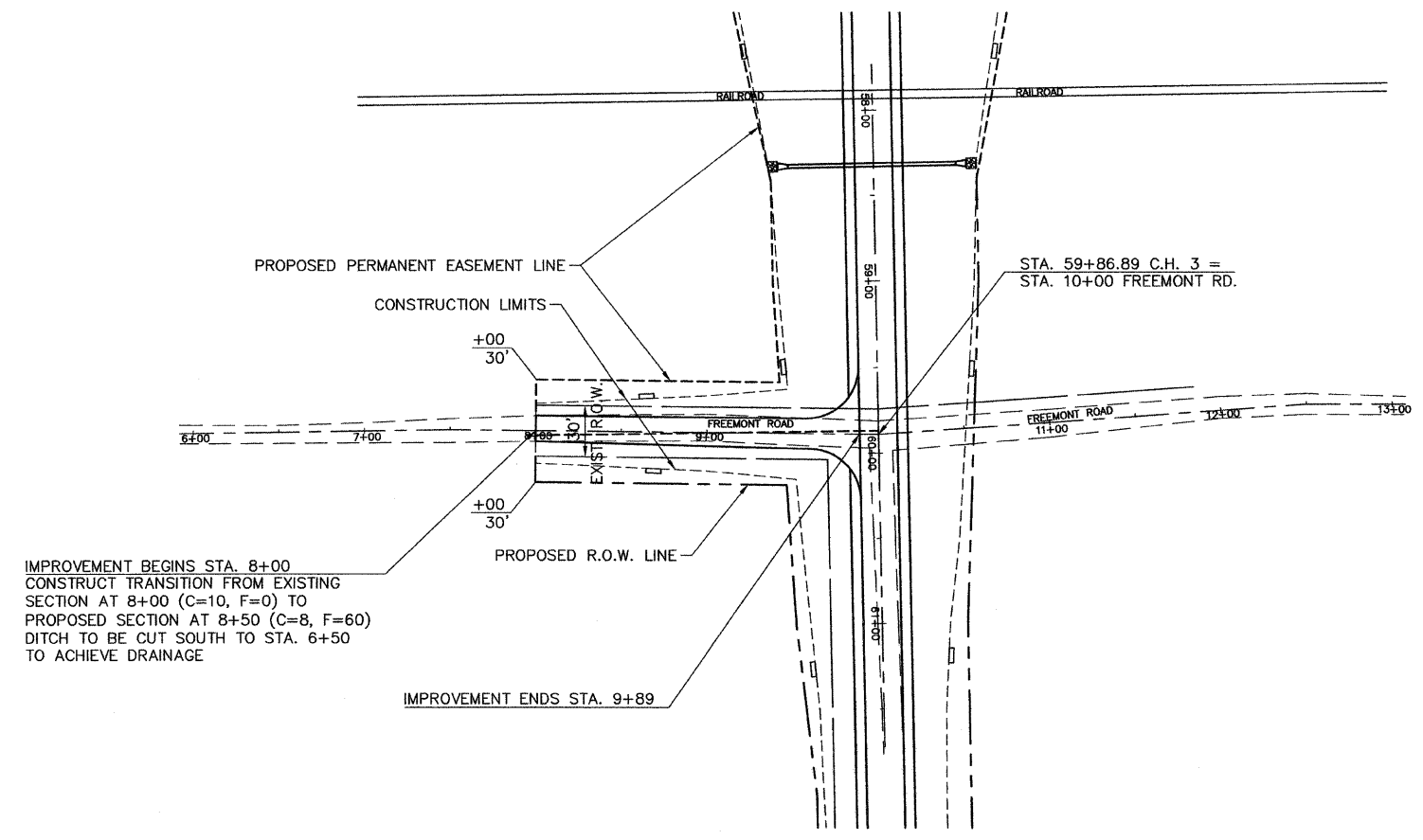
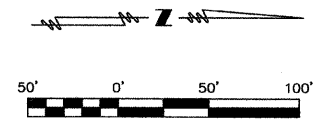
PROJECT
SECTION 06-00086-00-PV
F.A.S. 2729 / C.H. 3
MACOUPIN COUNTY

PROJECT NO. 03105
SCALE
DATE 09/11/09
DRAWN BY PPW
CHECKED BY
DRAWING NO.

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

12
OF 43 SHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	13
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

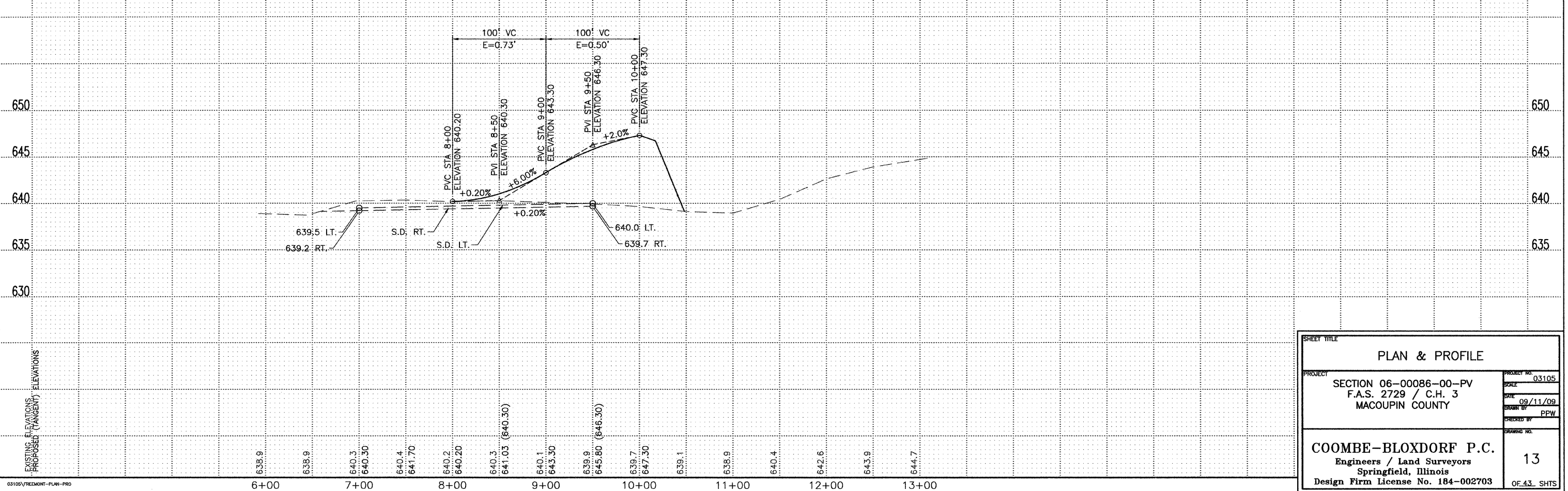


IMPROVEMENT BEGINS STA. 8+00
 CONSTRUCT TRANSITION FROM EXISTING SECTION AT 8+00 (C=10, F=0) TO PROPOSED SECTION AT 8+50 (C=8, F=60)
 DITCH TO BE CUT SOUTH TO STA. 6+50 TO ACHIEVE DRAINAGE

LEGEND

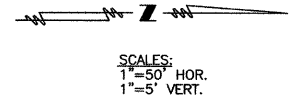
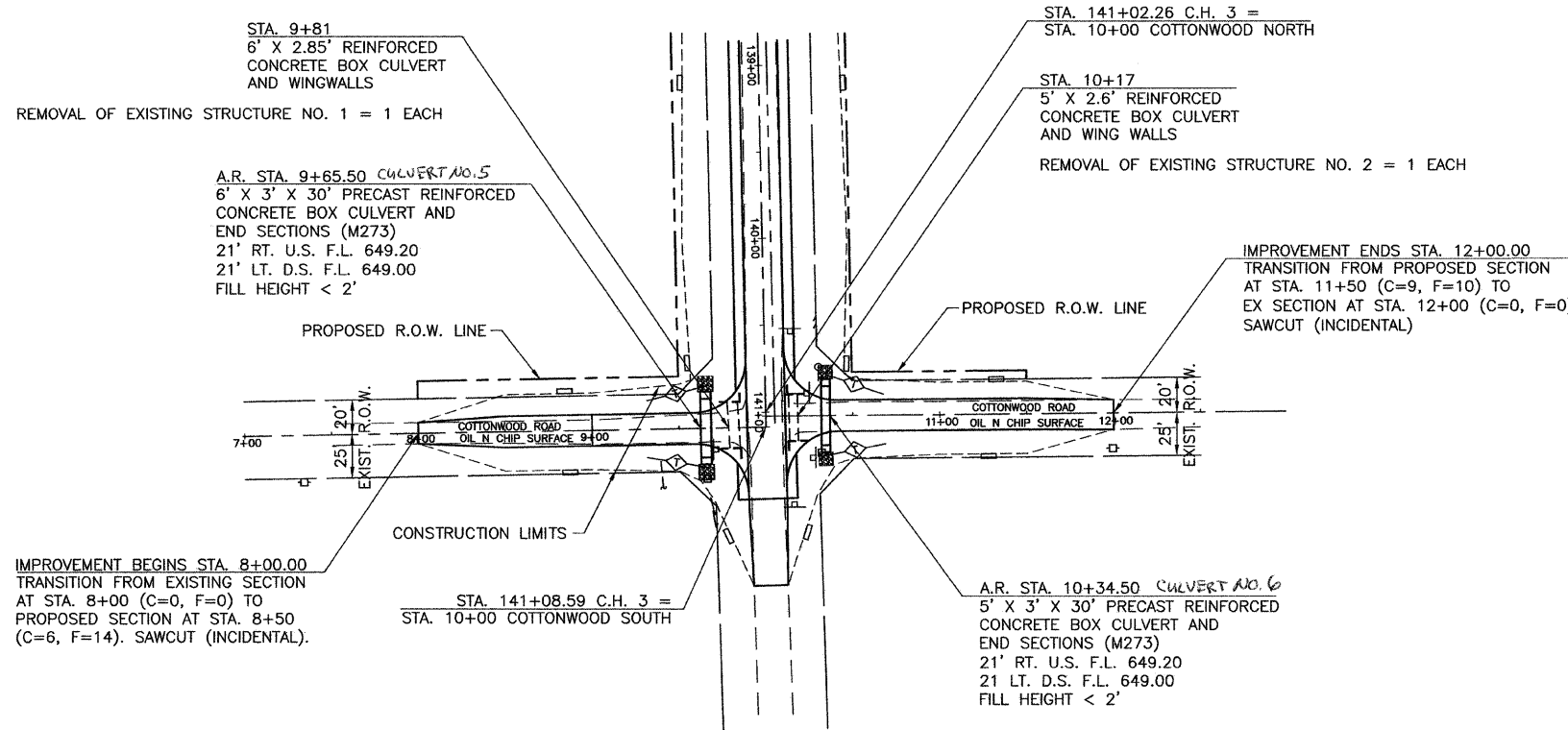
- IRON PIN SET
- △ SET SPIKE NAIL
- POWER POLE
- GUY WIRE
- ⊞ TELEPHONE SPLICE BOX
- ⊥ SIGN
- ⊗ END FENCE POST
- ⊠ RIGHT OF WAY MARKER
- FLOW DIRECTION
- · — · — STREAM
- ◇ TEMPORARY DITCH CHECK
- ▬ PERIMETER EROSION BARRIER

FREEMONT ROAD PROFILE



SHEET TITLE		PLAN & PROFILE	
PROJECT	SECTION 06-00086-00-PV F.A.S. 2729 / C.H. 3 MACOUPIN COUNTY	PROJECT NO.	03105
DATE	09/11/09	DESIGNED BY	PPW
CHECKED BY		DRAWING NO.	13
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703		OF 43 SHTS	

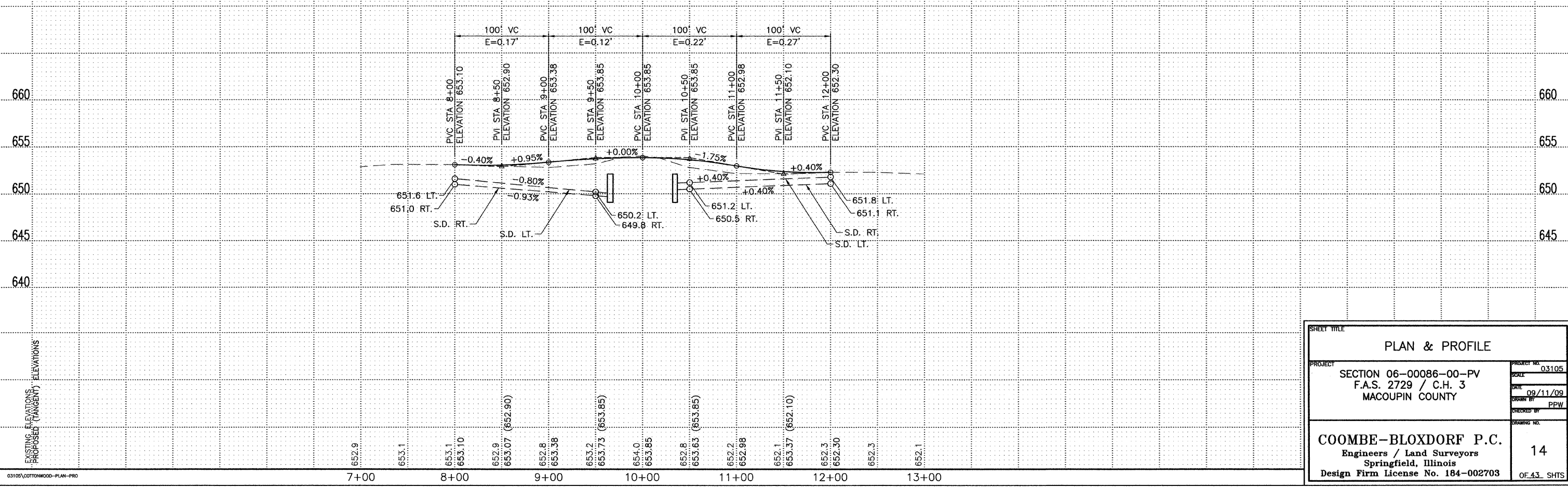
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	14
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



LEGEND

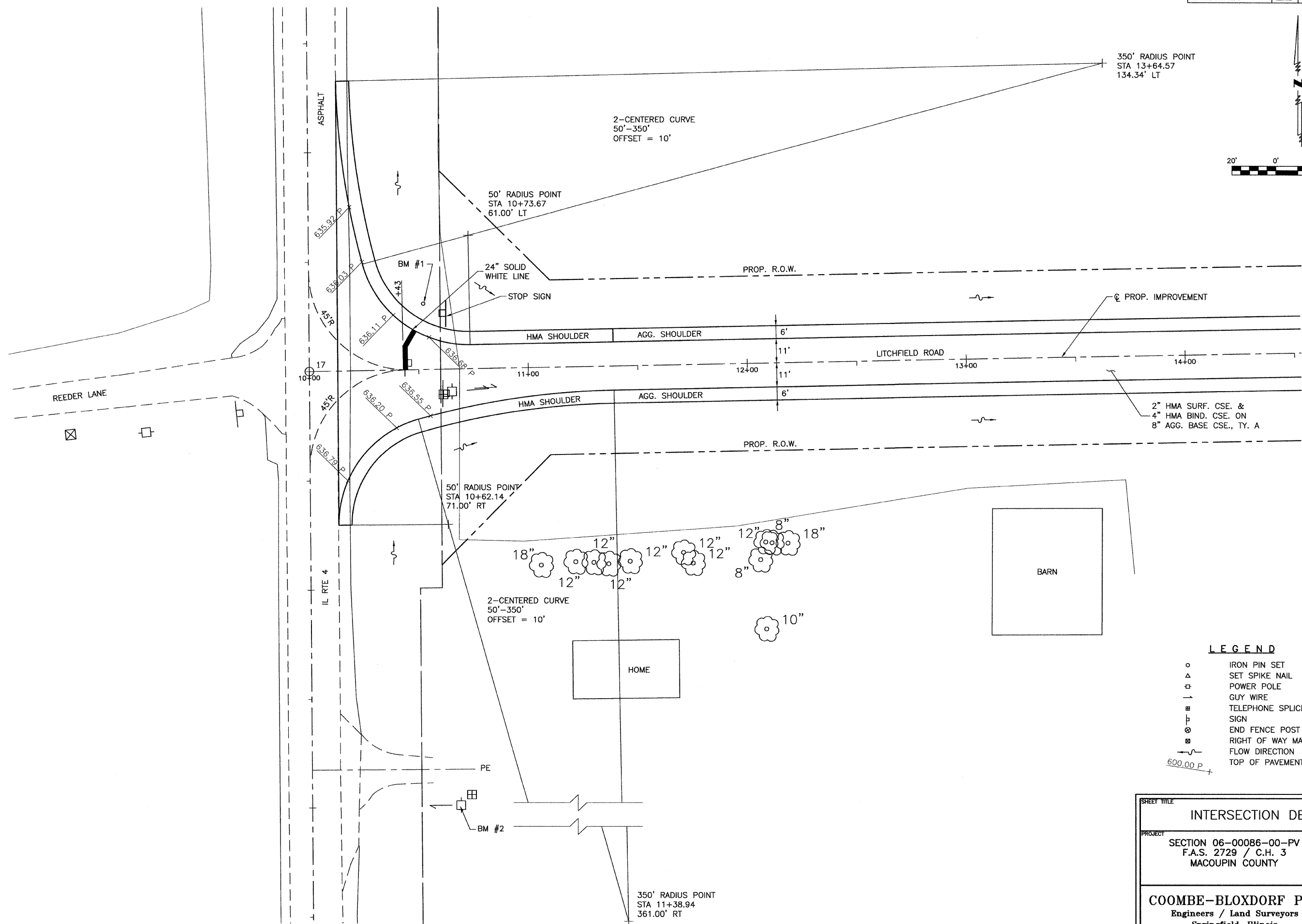
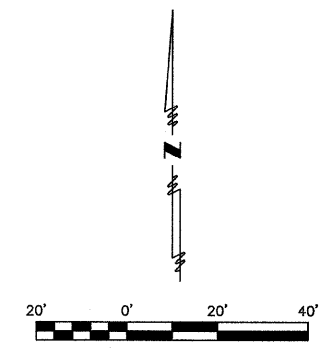
- IRON PIN SET
- △ SET SPIKE NAIL
- POWER POLE
- GUY WIRE
- ⊞ TELEPHONE SPLICE BOX
- ⊞ SIGN
- ⊞ END FENCE POST
- ⊞ RIGHT OF WAY MARKER
- FLOW DIRECTION
- STREAM
- ◇ TEMPORARY DITCH CHECK
- ▬ PERIMETER EROSION BARRIER

COTTONWOOD ROAD PROFILE



SHEET TITLE		PLAN & PROFILE	
PROJECT	SECTION 06-00086-00-PV F.A.S. 2729 / C.H. 3 MACOUPIN COUNTY	PROJECT NO.	03105
DATE	09/11/09	SCALE	
DRAWN BY	PPW	CHECKED BY	
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703		14 OF 43 SHTS	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	15
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

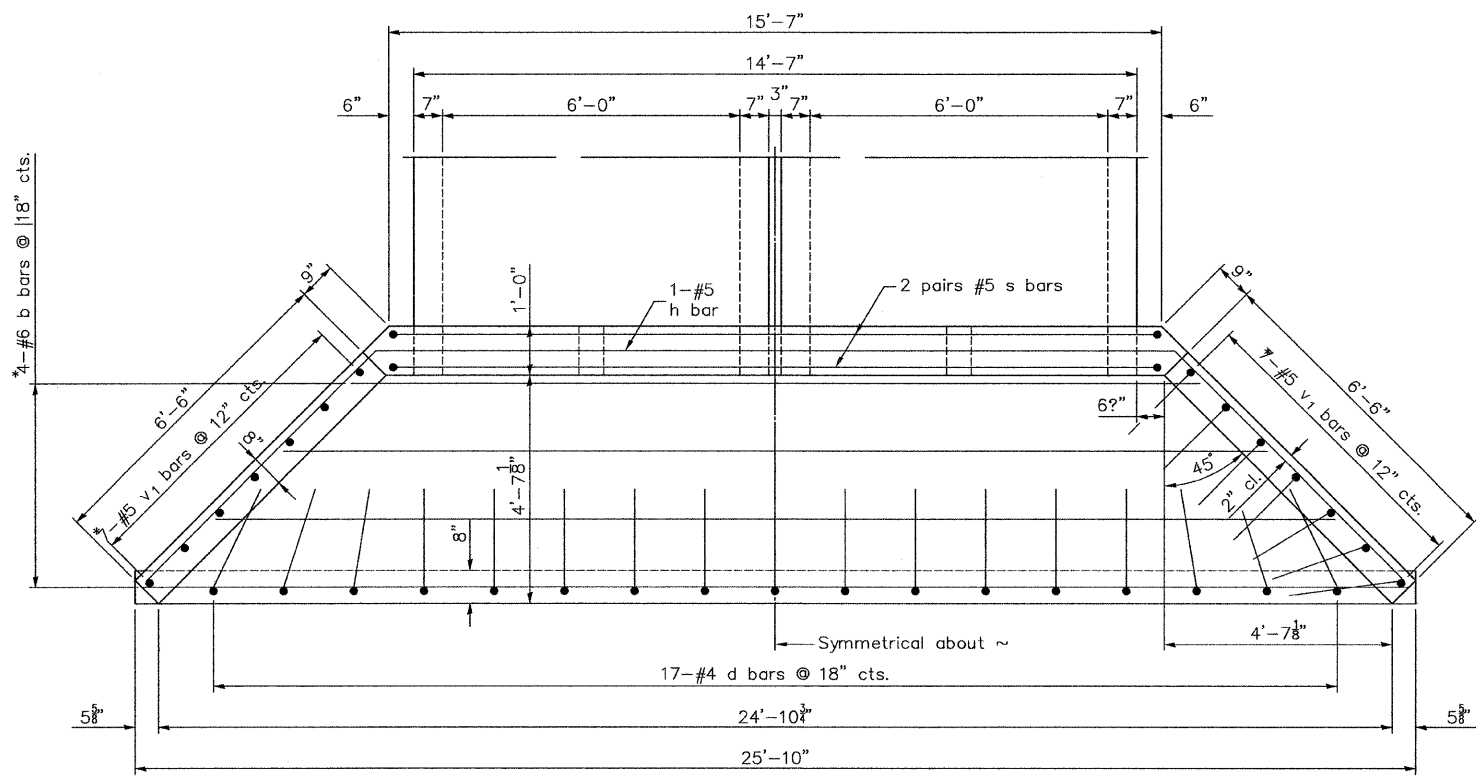


LEGEND

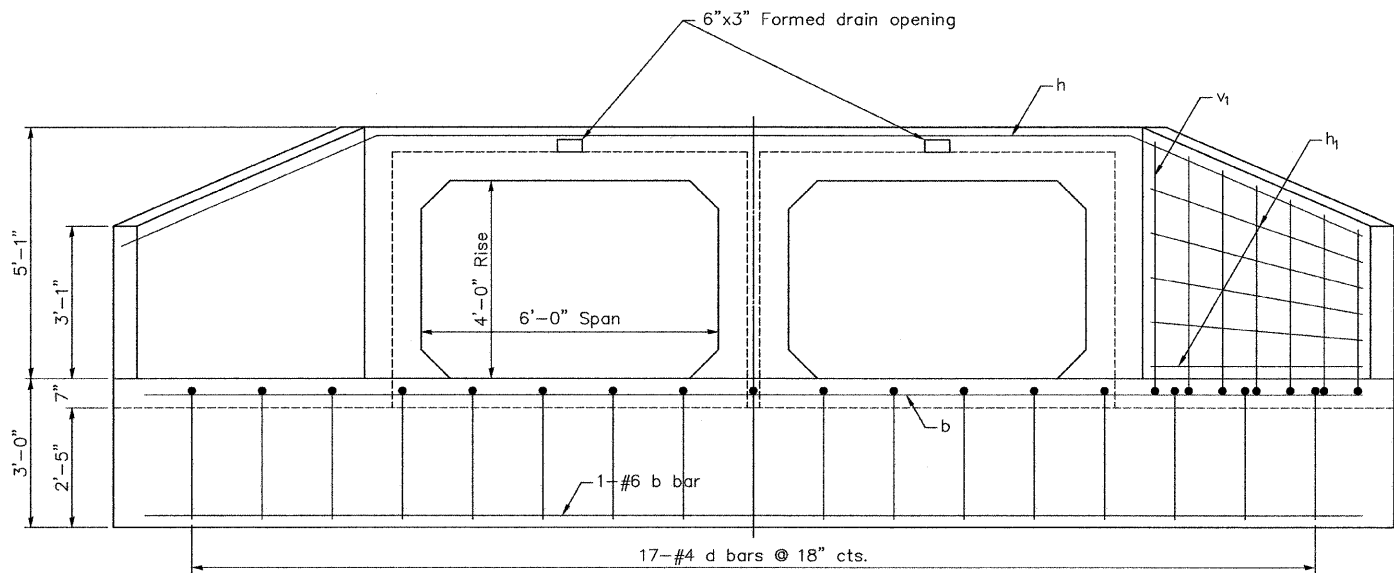
- IRON PIN SET
- △ SET SPIKE NAIL
- POWER POLE
- GUY WIRE
- ⊞ TELEPHONE SPLICE BOX
- ⊞ SIGN
- ⊞ END FENCE POST
- ⊞ RIGHT OF WAY MARKER
- FLOW DIRECTION
- 600.00 P + TOP OF PAVEMENT ELEVATION

SHEET TITLE	
INTERSECTION DETAIL	
PROJECT	SECTION 06-00086-00-PV F.A.S. 2729 / C.H. 3 MACOUPIN COUNTY
PROJECT NO.	03105
SCALE	1"=20'
DATE	4/20/09
DRAWN BY	PPW
CHECKED BY	MRL
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	
15 OF 43 SHTS	

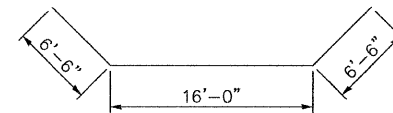
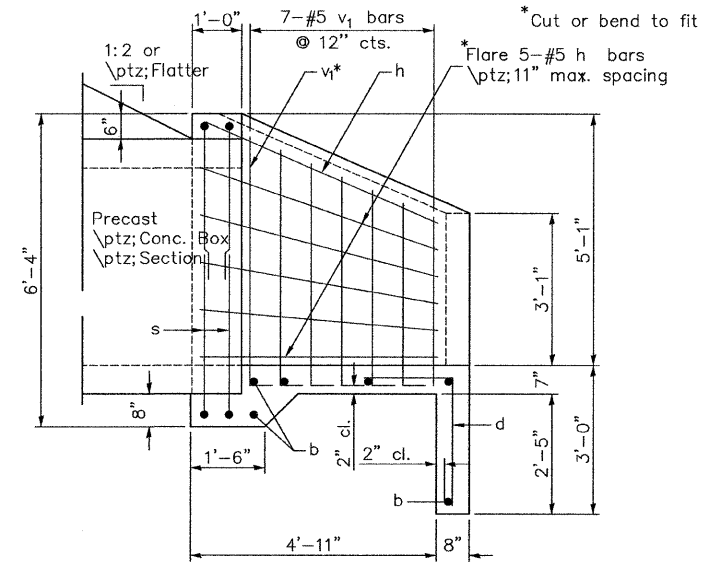
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	16
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



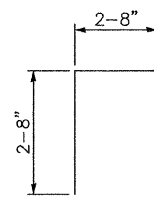
PLAN



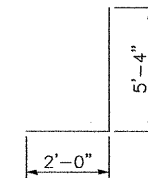
ELEVATION



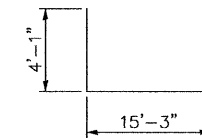
BAR h



BAR d



BAR v1



BAR s

CULVERT DETAILS

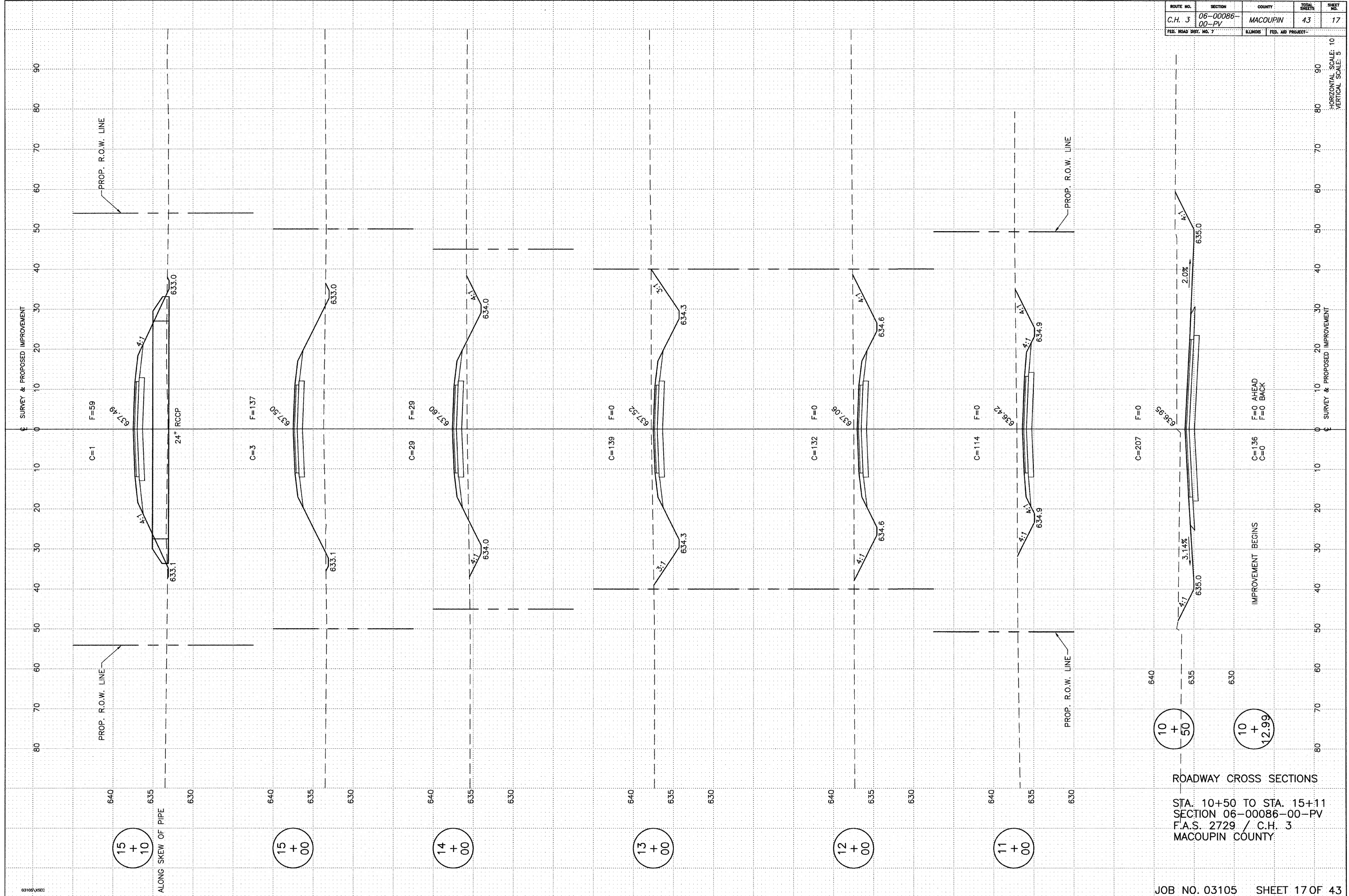
BILL OF MATERIAL-2 HDWLLS

Bar	No.	Size	Length	Shape
b	12	#6	25'-6"	—
d	34	#4	5'-4"	┌
h	2	#5	29'-0"	┌
h1	20	#5	6'-2"	—
s	8	#5	23'-5"	┌
v1	28	#5	5'-4"	—
Concrete Box Culverts			Cu. Yd.	15.6
Reinforcement Bars			Pound	1130

Min. Bar Lap
#5 bar = 2'-2"

SHEET TITLE		CULVERT DETAILS	
PROJECT	SECTION 06-00086-00-PV F.A.S. 2729 / C.H. 3 MACOUPIN COUNTY STA. 79+80	PROJECT NO.	03105
DATE	4/20/09	SCALE	
DRAWN BY	PPW	CHECKED BY	MRL
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703		DRIVING NO.	16
		OF 43 SHTS	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	17
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

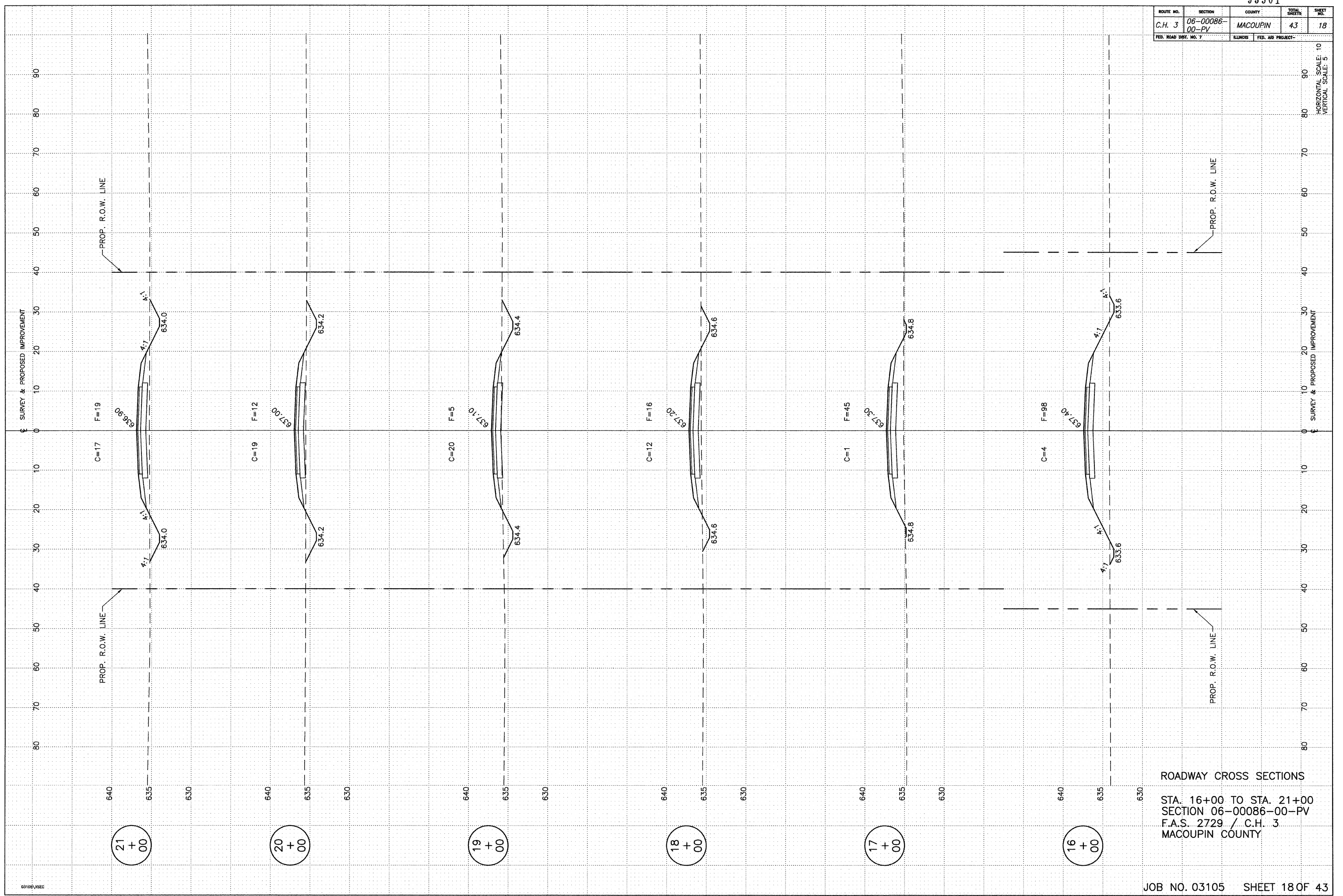


15 + 10
15 + 00
14 + 00
13 + 00
12 + 00
11 + 00

ROADWAY CROSS SECTIONS
 STA. 10+50 TO STA. 15+11
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

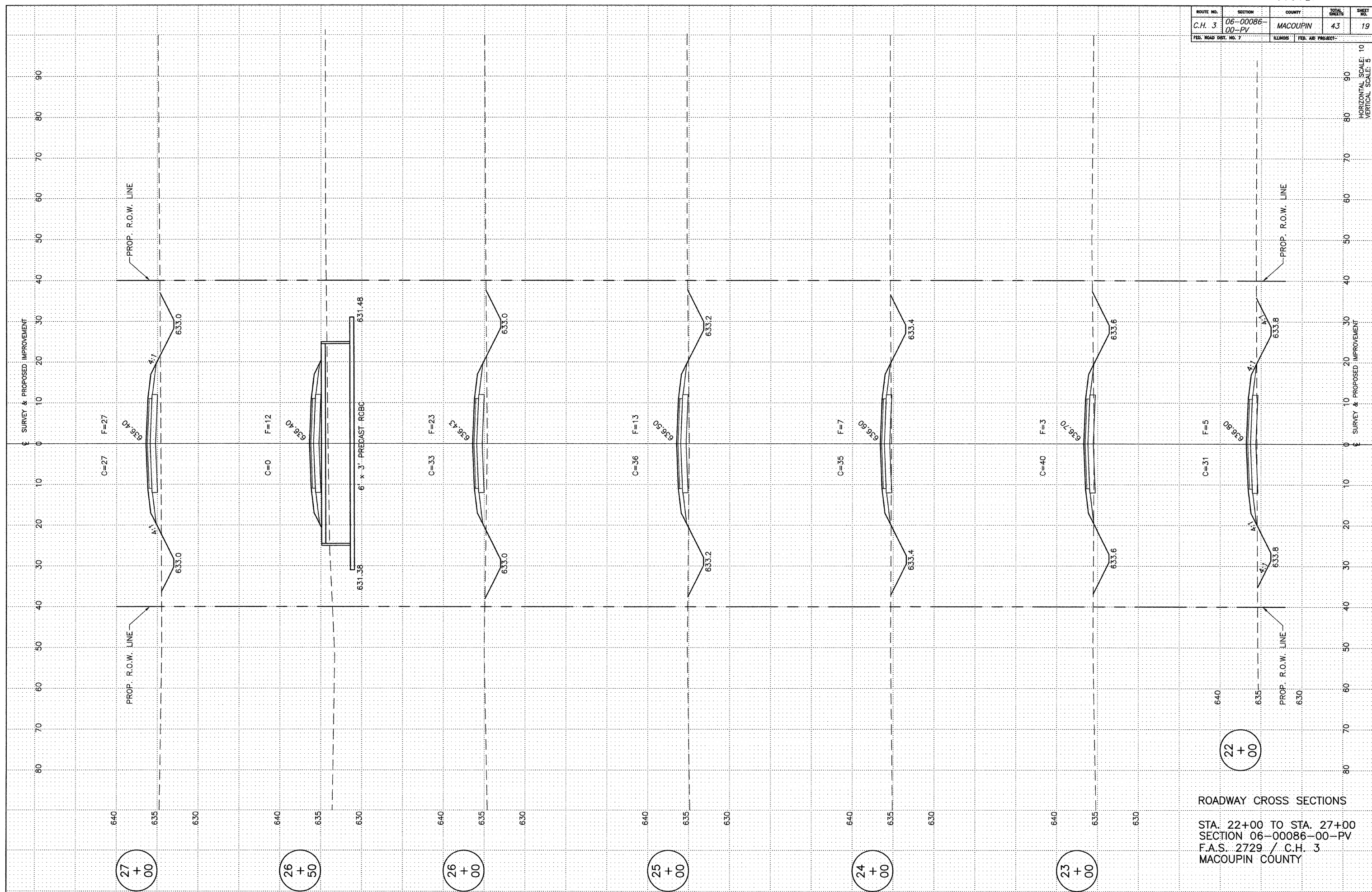
HORIZONTAL SCALE: 10
 VERTICAL SCALE: 5

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	18
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



ROADWAY CROSS SECTIONS
 STA. 16+00 TO STA. 21+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	19
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

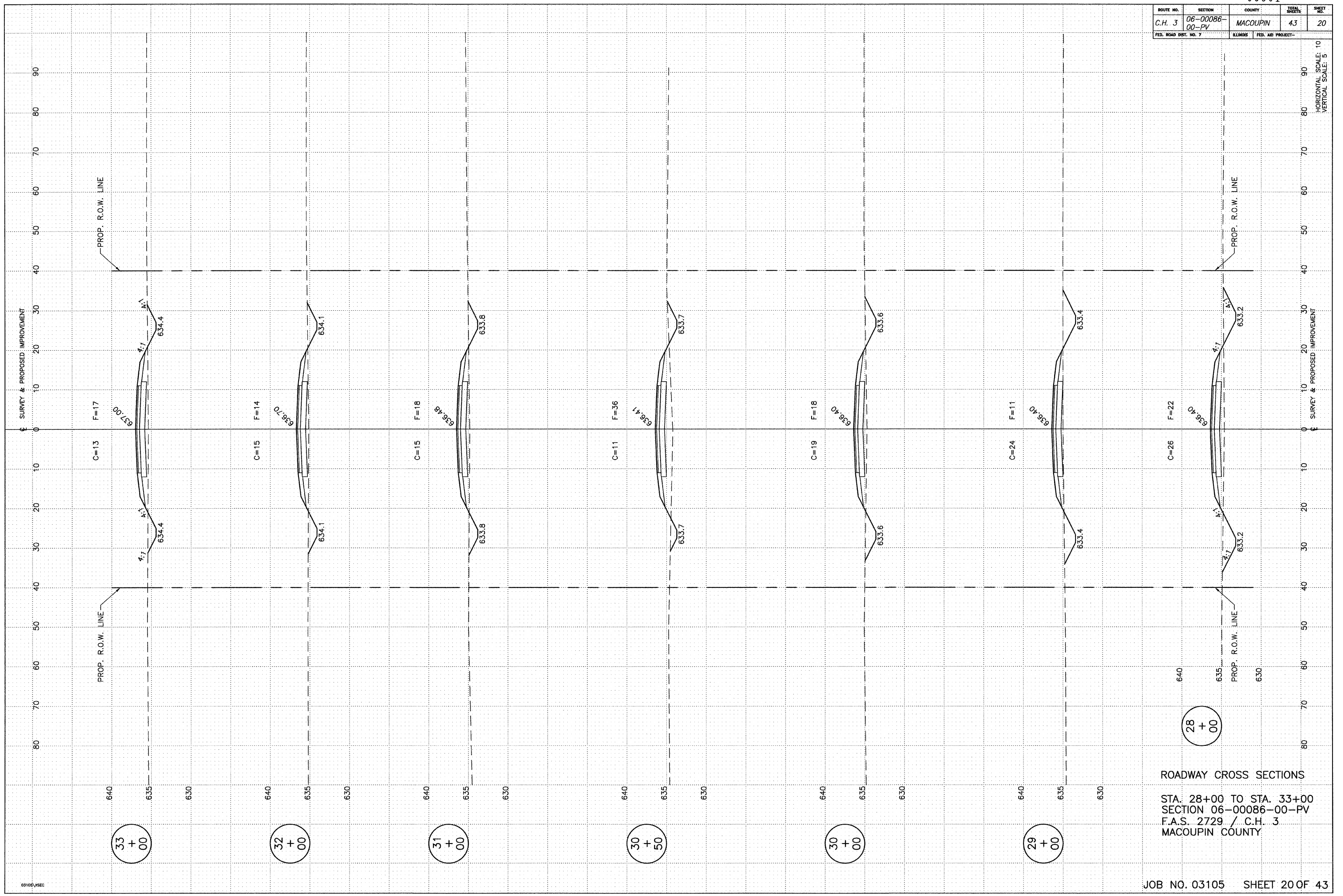


ROADWAY CROSS SECTIONS

STA. 22+00 TO STA. 27+00
SECTION 06-00086-00-PV
F.A.S. 2729 / C.H. 3
MACOUPIN COUNTY

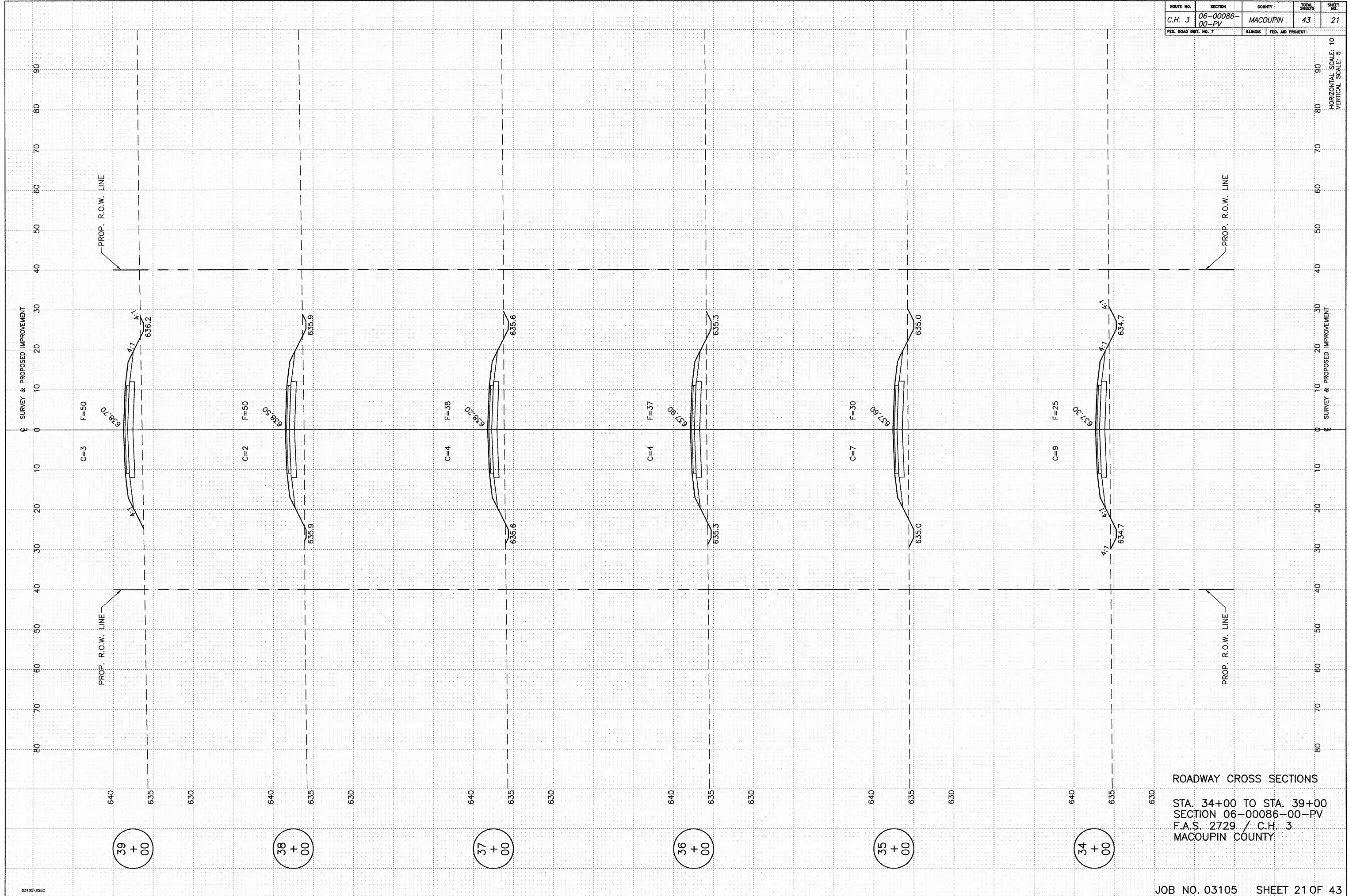
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 5" = 10'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	20
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		



ROADWAY CROSS SECTIONS
 STA. 28+00 TO STA. 33+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

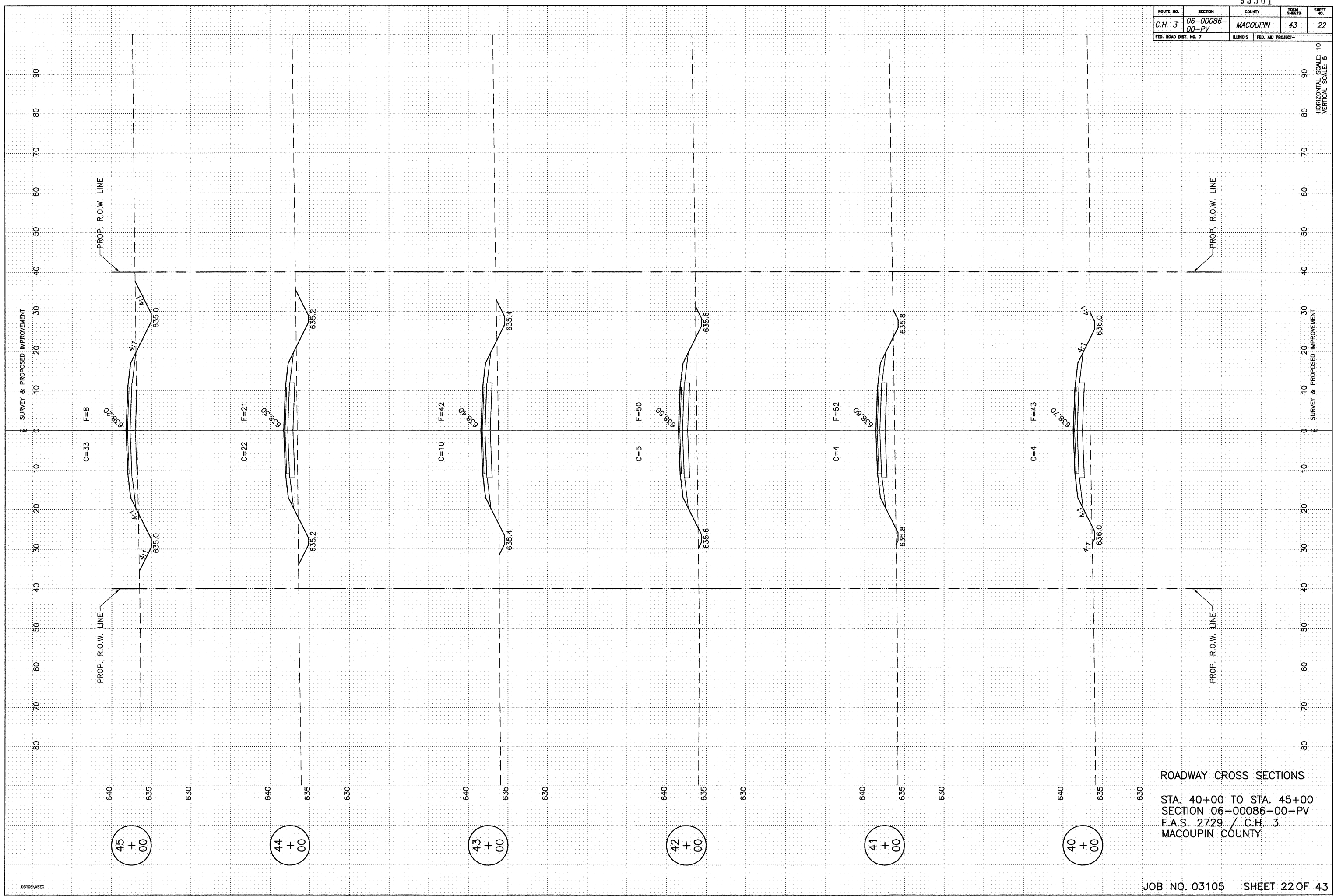
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	21
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



ROADWAY CROSS SECTIONS
 STA. 34+00 TO STA. 39+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

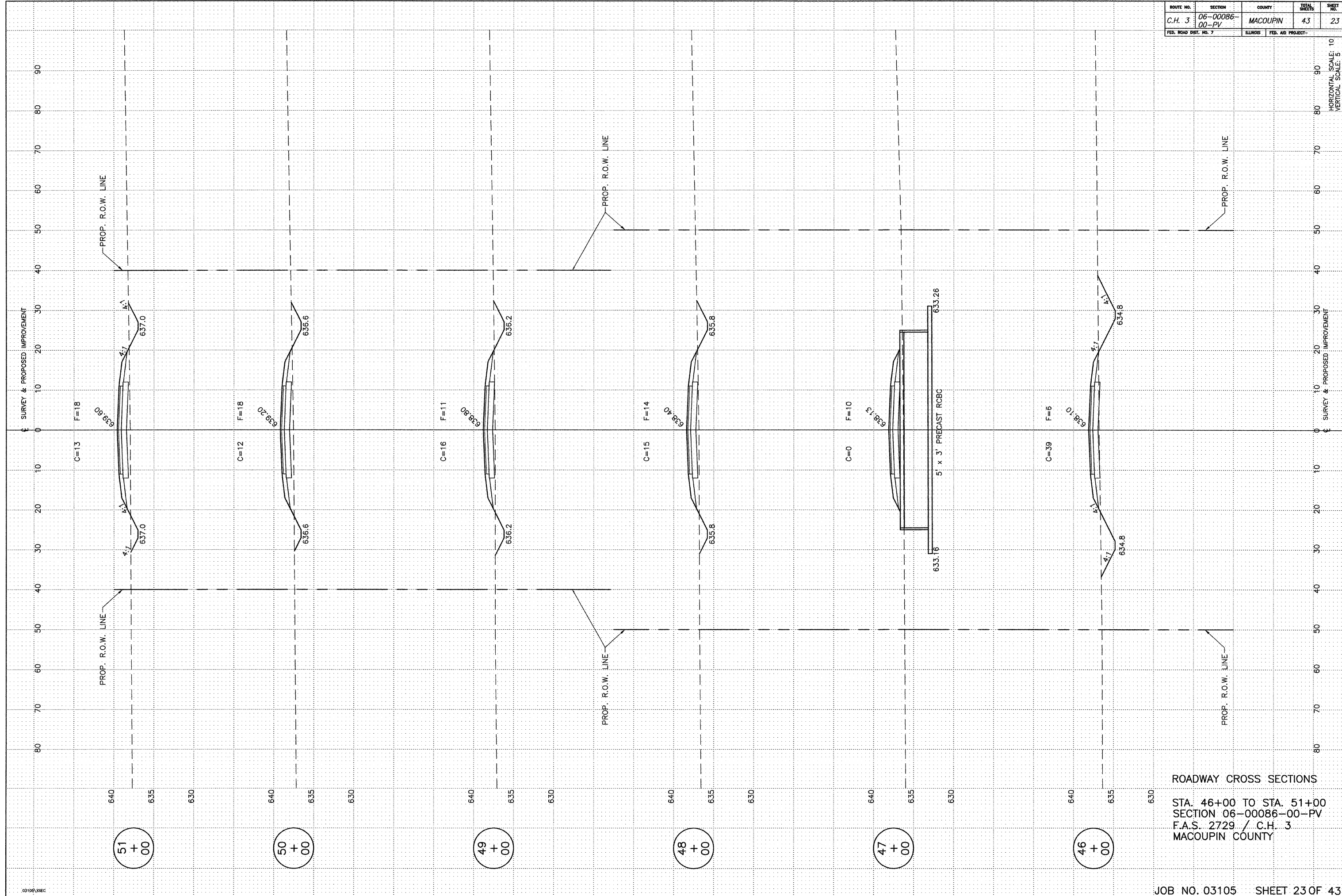
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	22
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

HORIZONTAL SCALE: 10
VERTICAL SCALE: 5



ROADWAY CROSS SECTIONS
 STA. 40+00 TO STA. 45+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	23
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

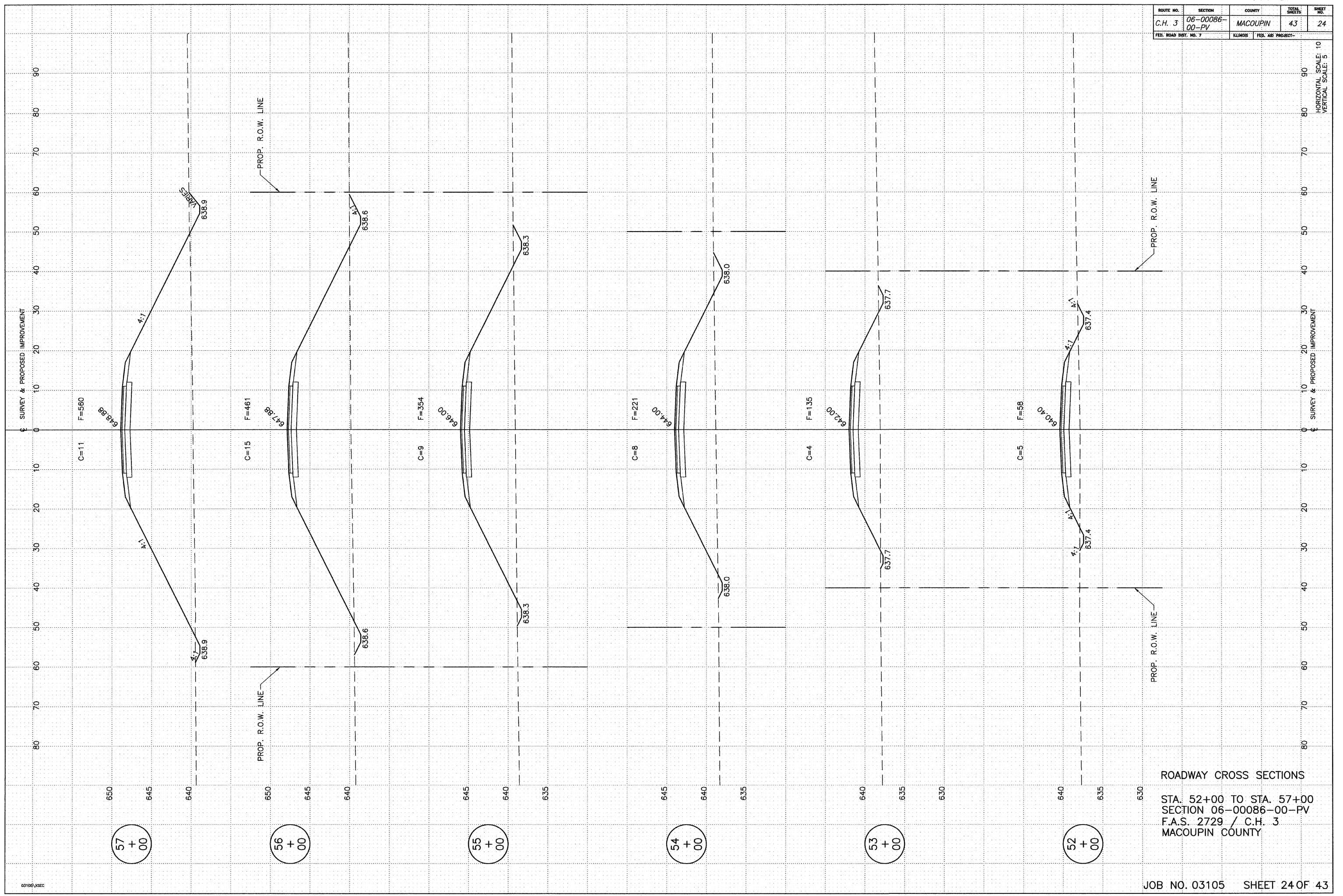


ROADWAY CROSS SECTIONS

STA. 46+00 TO STA. 51+00
SECTION 06-00086-00-PV
F.A.S. 2729 / C.H. 3
MACOUPIN COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	24
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

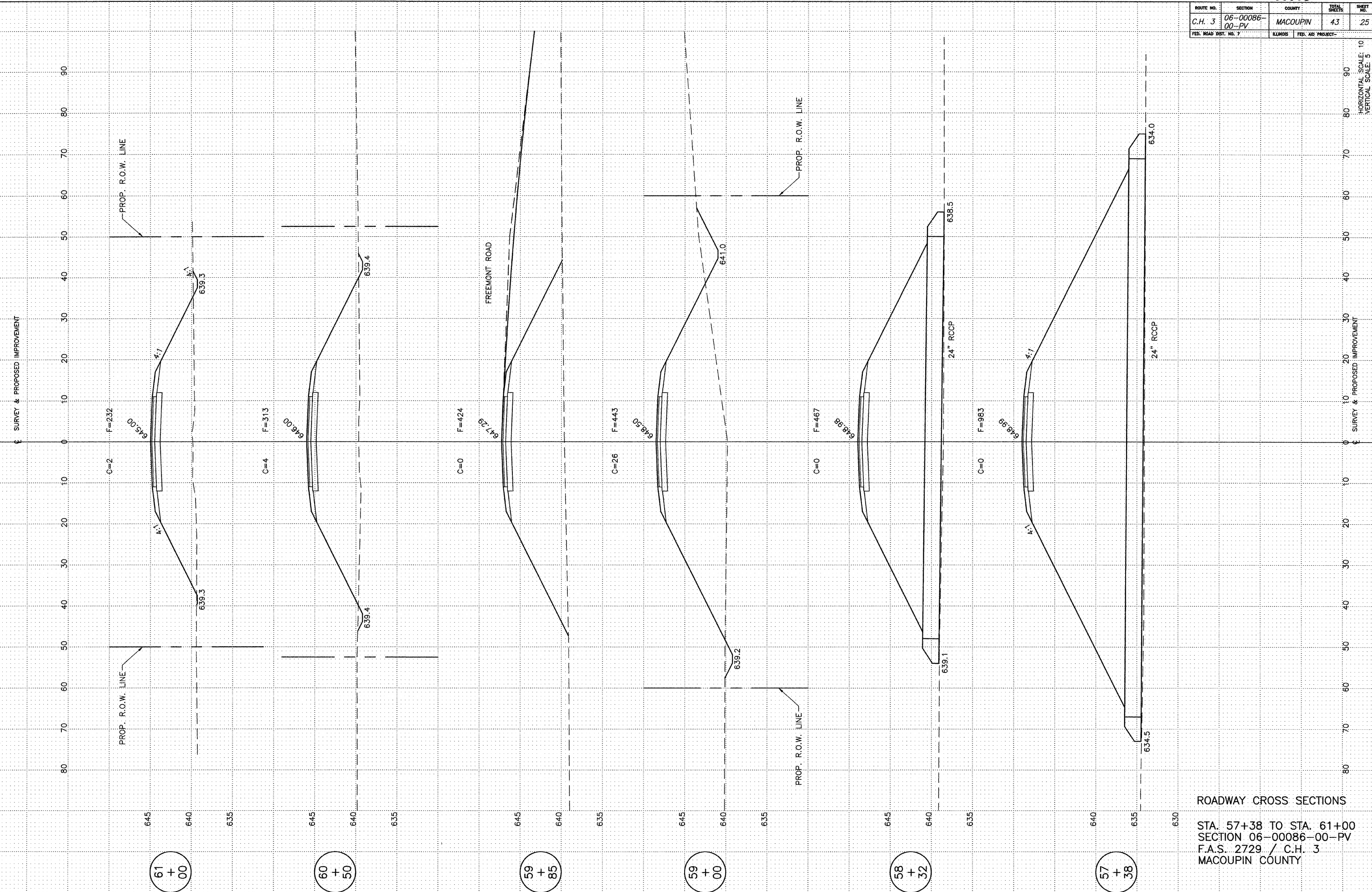
HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'



ROADWAY CROSS SECTIONS
 STA. 52+00 TO STA. 57+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	25
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

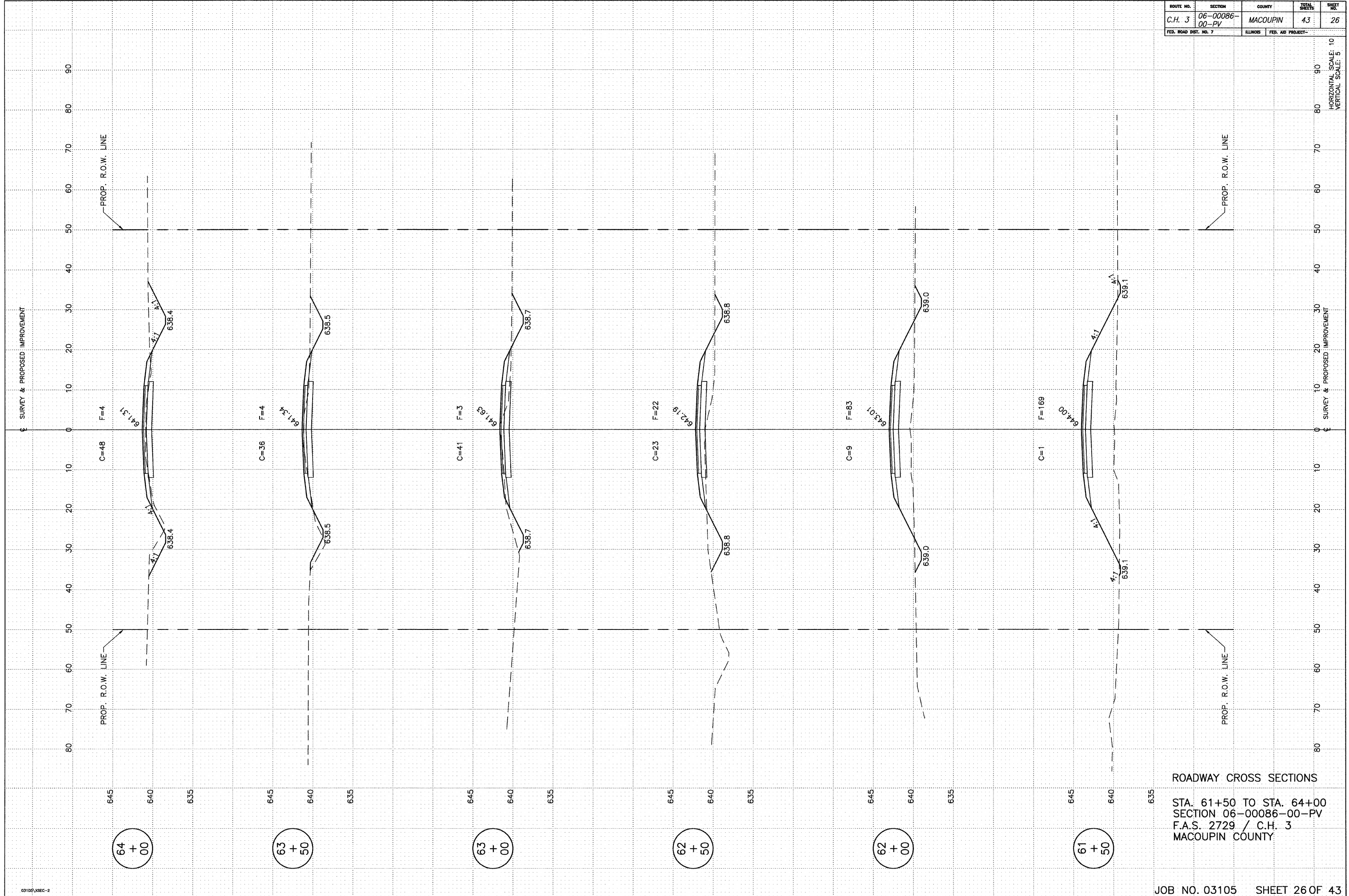
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'



ROADWAY CROSS SECTIONS

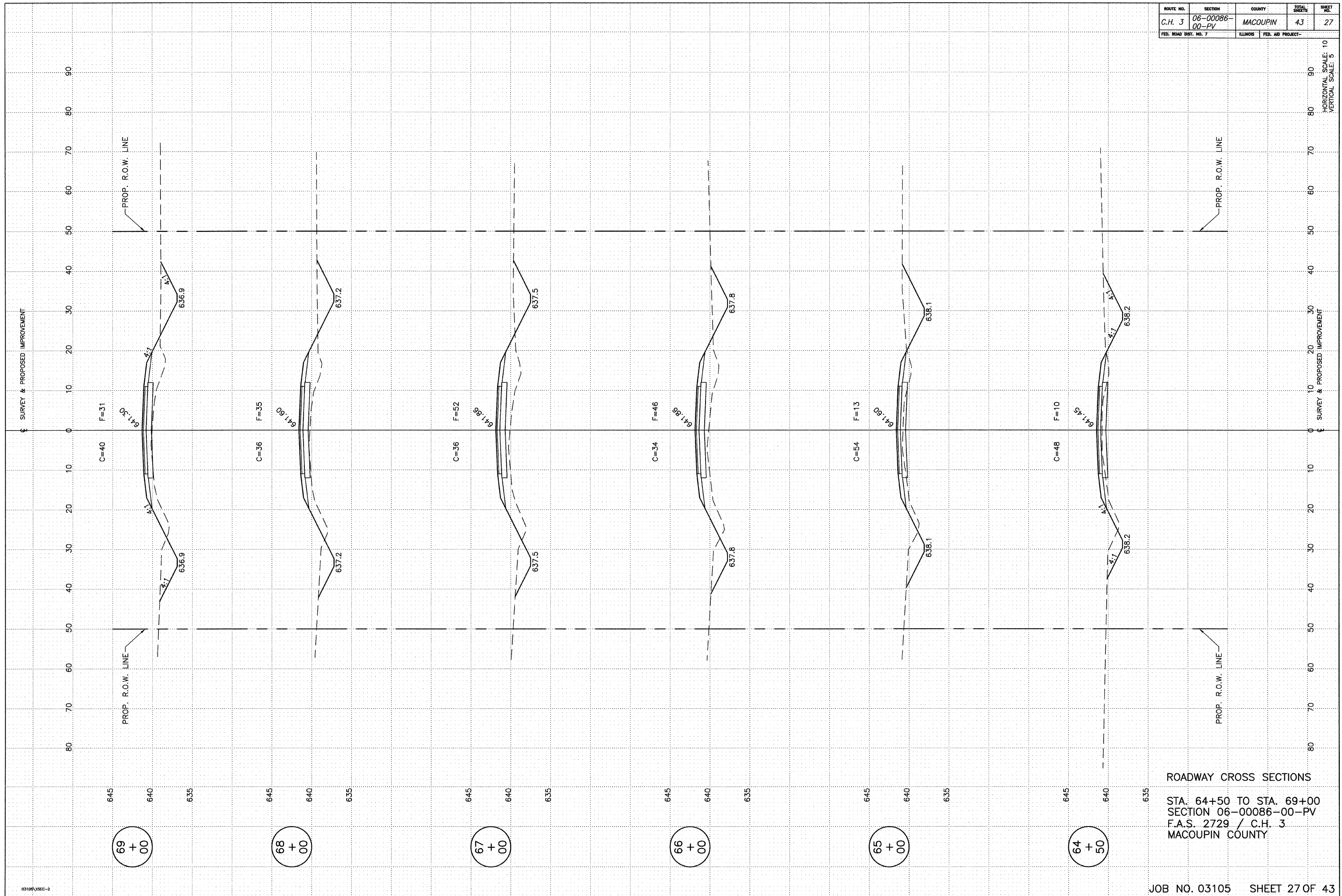
STA. 57+38 TO STA. 61+00
SECTION 06-00086-00-PV
F.A.S. 2729 / C.H. 3
MACOUPIN COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	26
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT--	



HORIZONTAL SCALE: 10
VERTICAL SCALE: 5

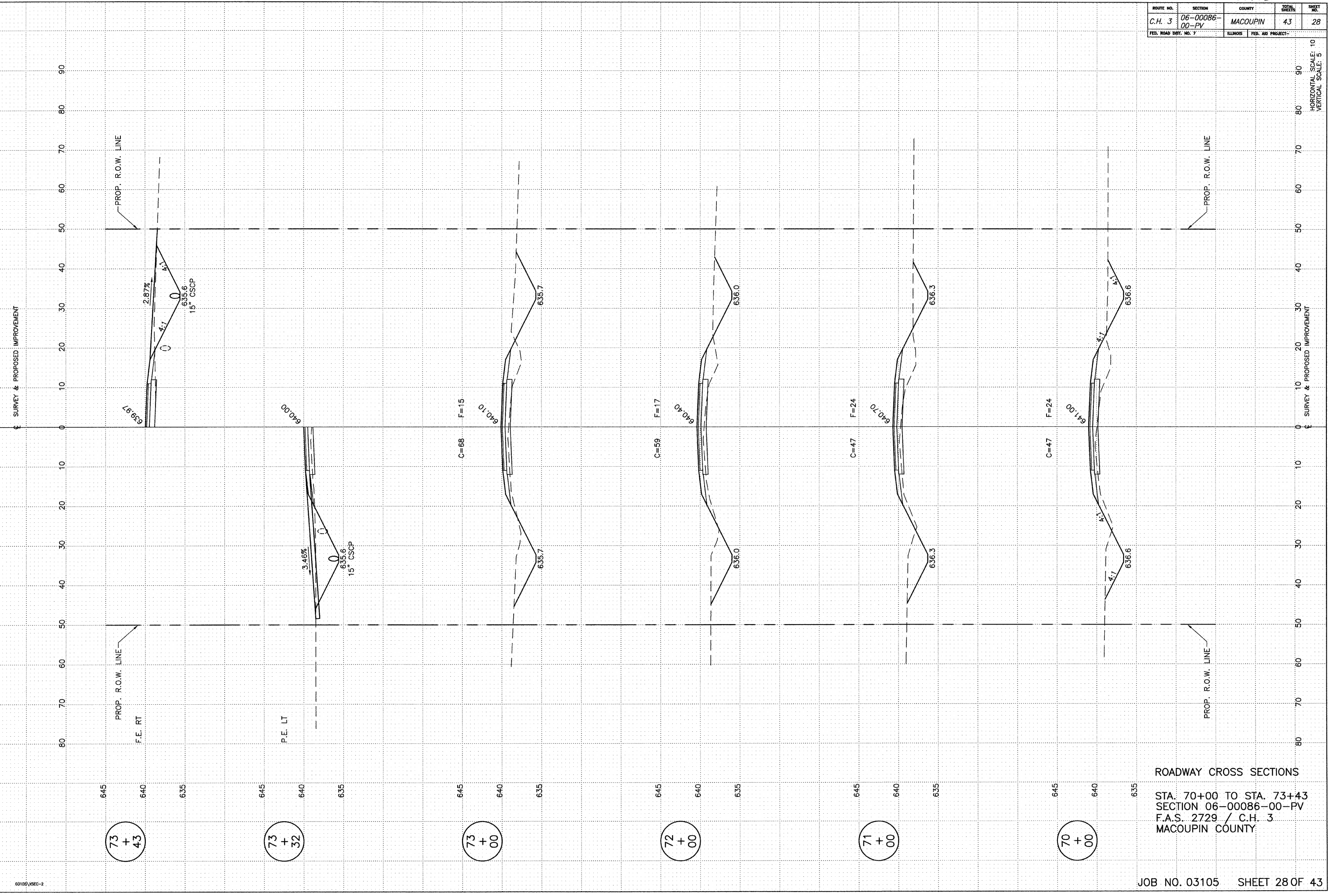
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	27
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



ROADWAY CROSS SECTIONS
 STA. 64+50 TO STA. 69+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	28
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'



ROADWAY CROSS SECTIONS

STA. 70+00 TO STA. 73+43
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

73 + 43

73 + 32

73 + 00

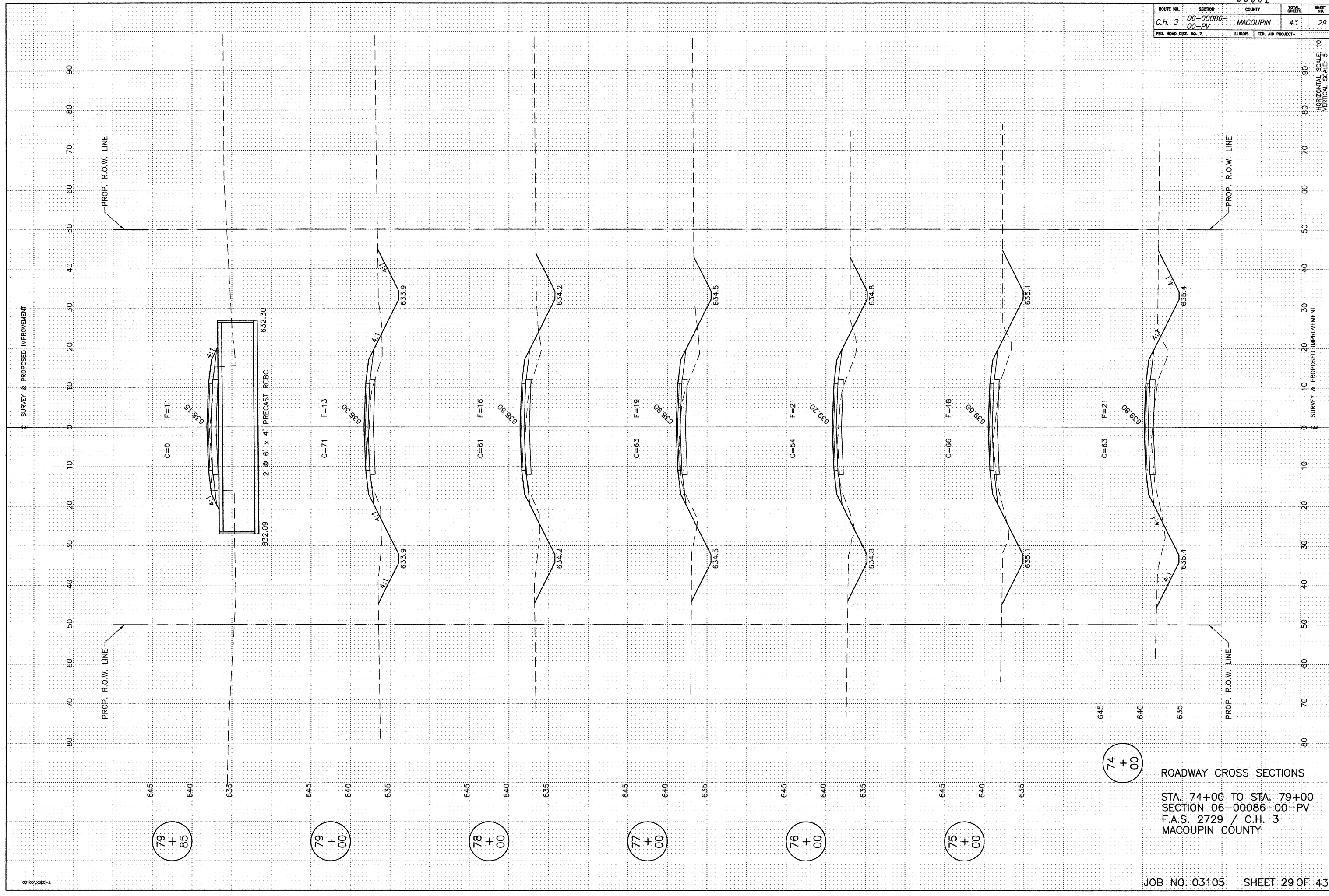
72 + 00

71 + 00

70 + 00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	29
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'



74 + 00

ROADWAY CROSS SECTIONS
 STA. 74+00 TO STA. 79+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

79 + 85

79 + 00

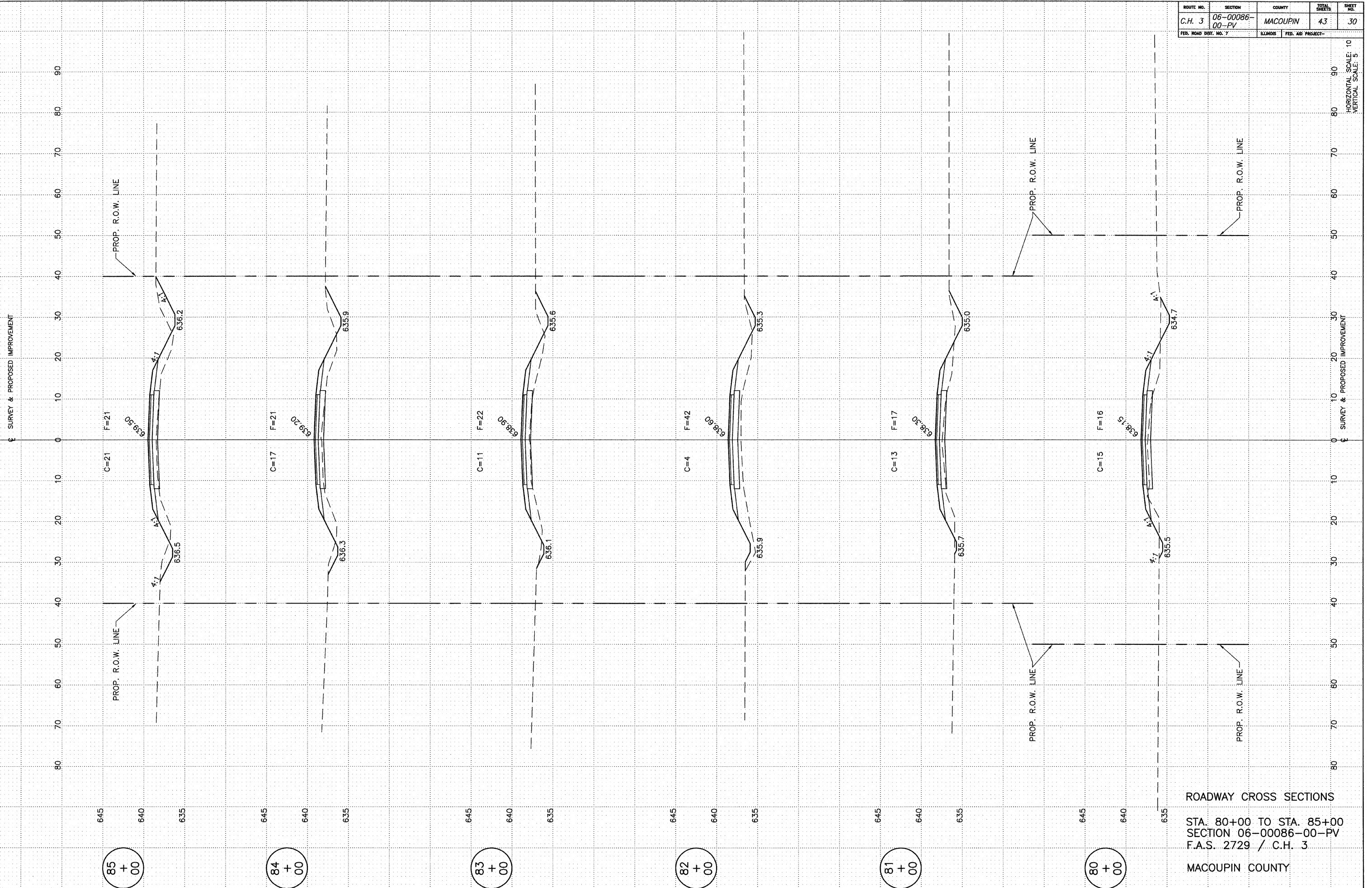
78 + 00

77 + 00

76 + 00

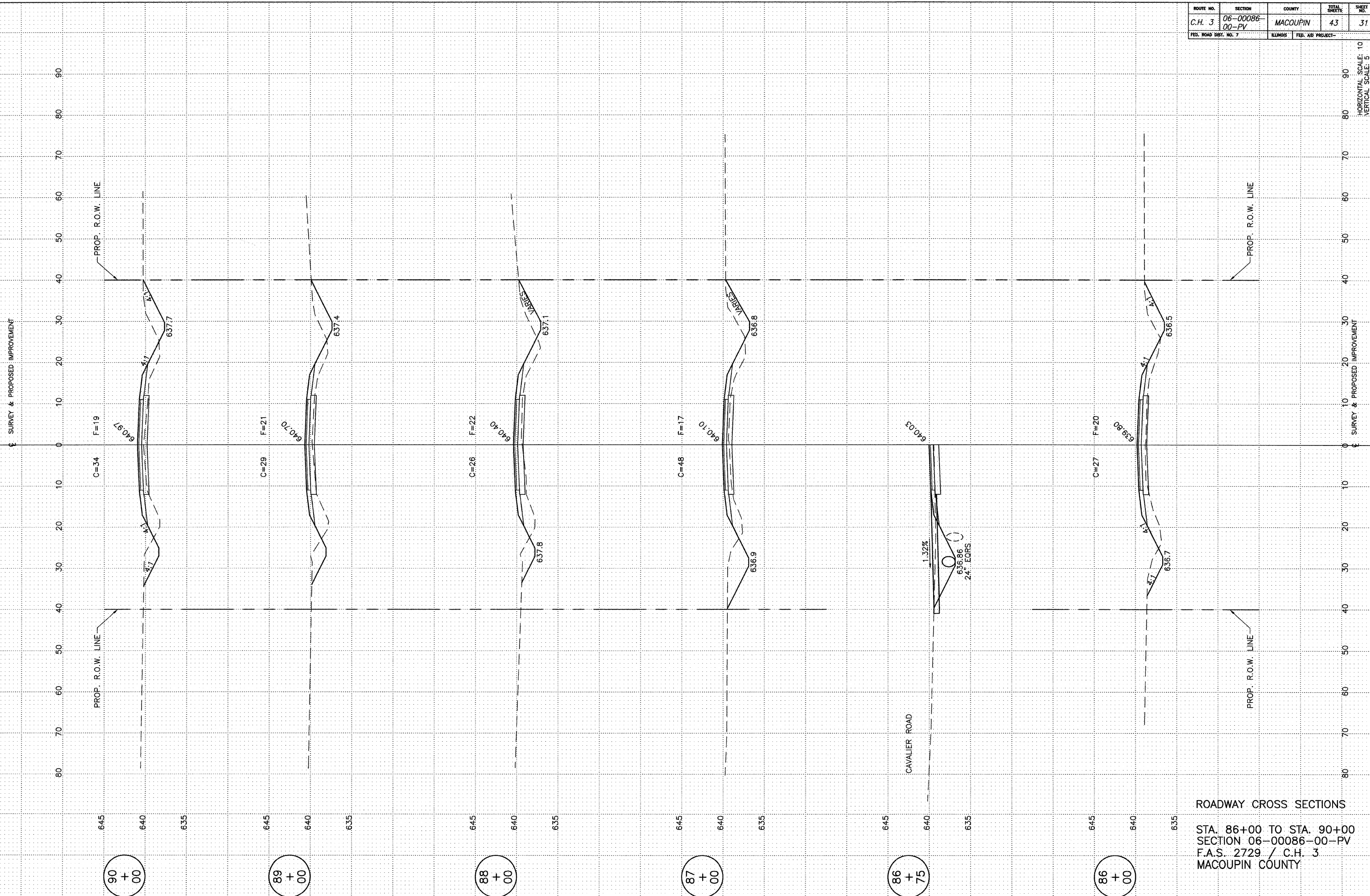
75 + 00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	30
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		



ROADWAY CROSS SECTIONS
 STA. 80+00 TO STA. 85+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

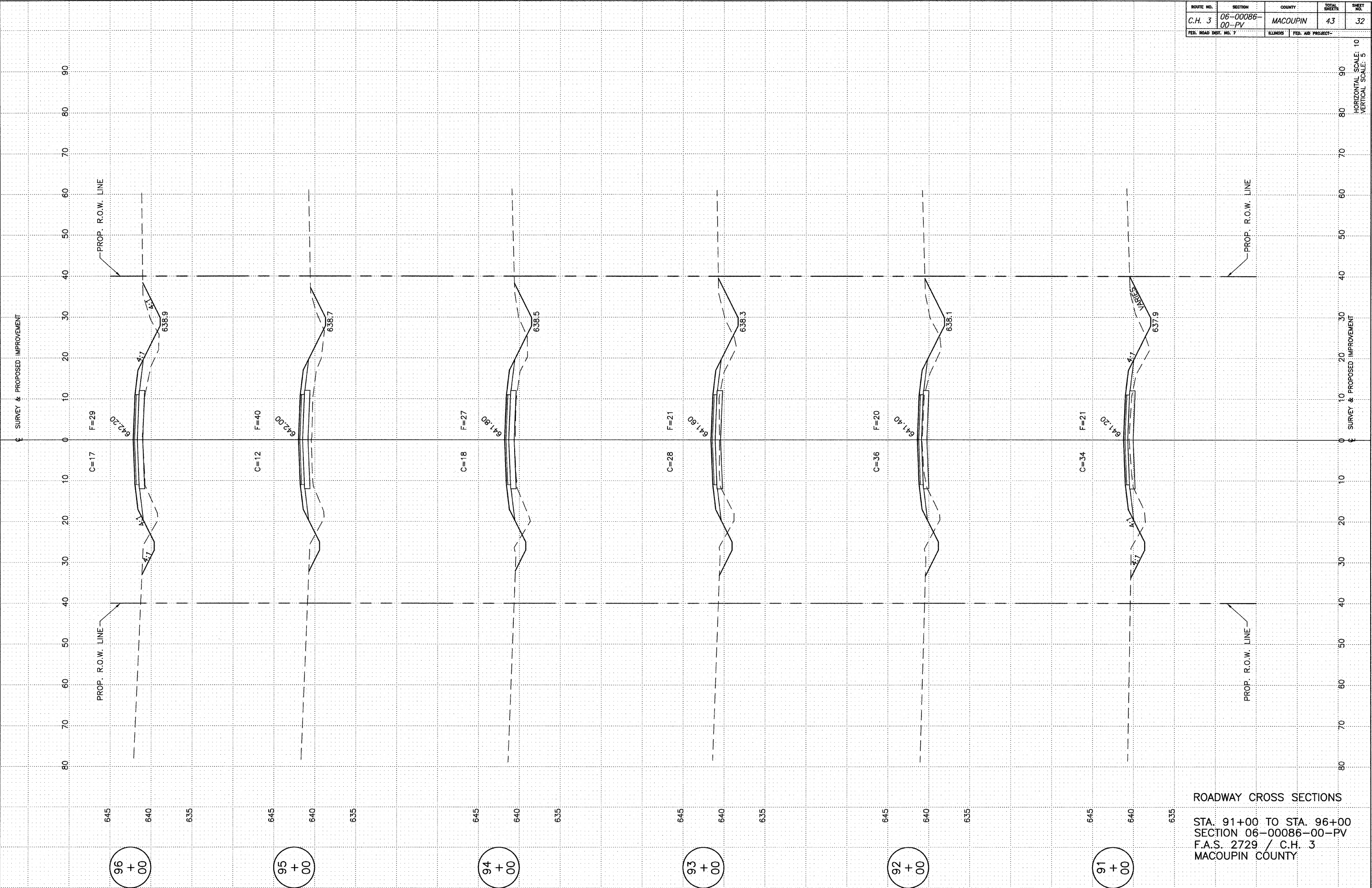
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	31
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		



ROADWAY CROSS SECTIONS

STA. 86+00 TO STA. 90+00
SECTION 06-00086-00-PV
F.A.S. 2729 / C.H. 3
MACOUPIN COUNTY

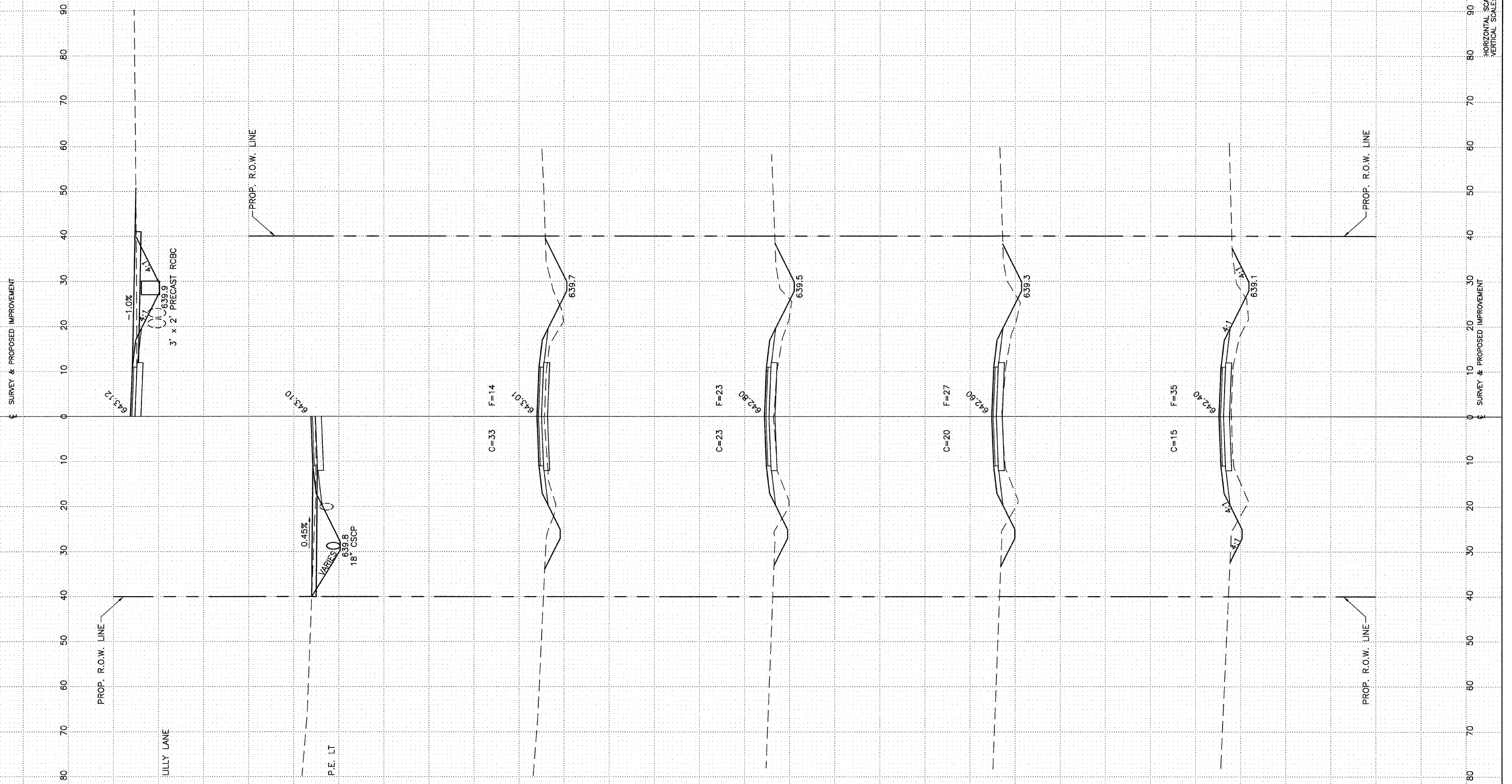
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	32
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		



ROADWAY CROSS SECTIONS

STA. 91+00 TO STA. 96+00
SECTION 06-00086-00-PV
F.A.S. 2729 / C.H. 3
MACOUPIN COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	33
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT-			



ROADWAY CROSS SECTIONS
 STA. 97+00 TO STA. 100+45
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

100 + 45

100 + 38

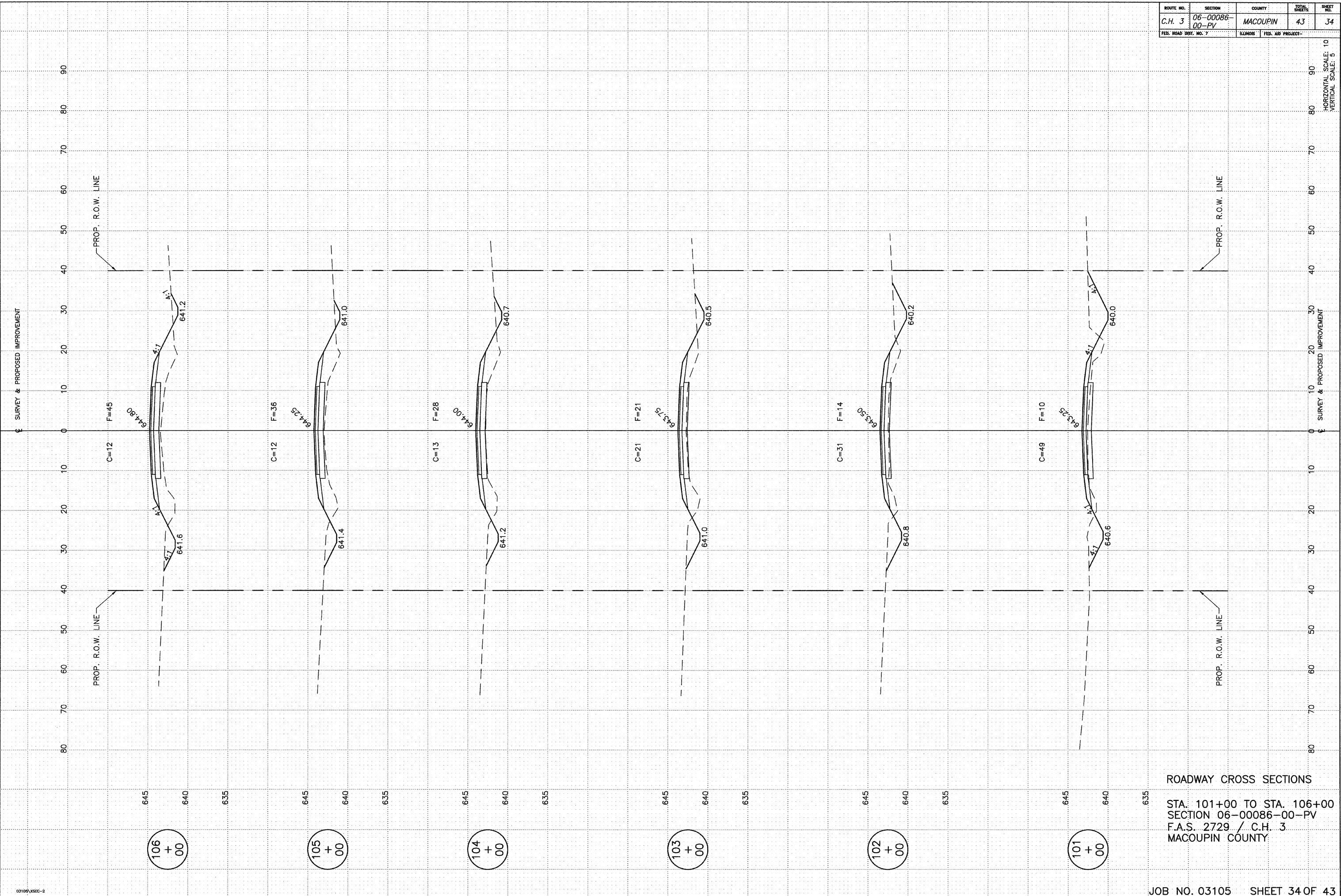
100 + 00

99 + 00

98 + 00

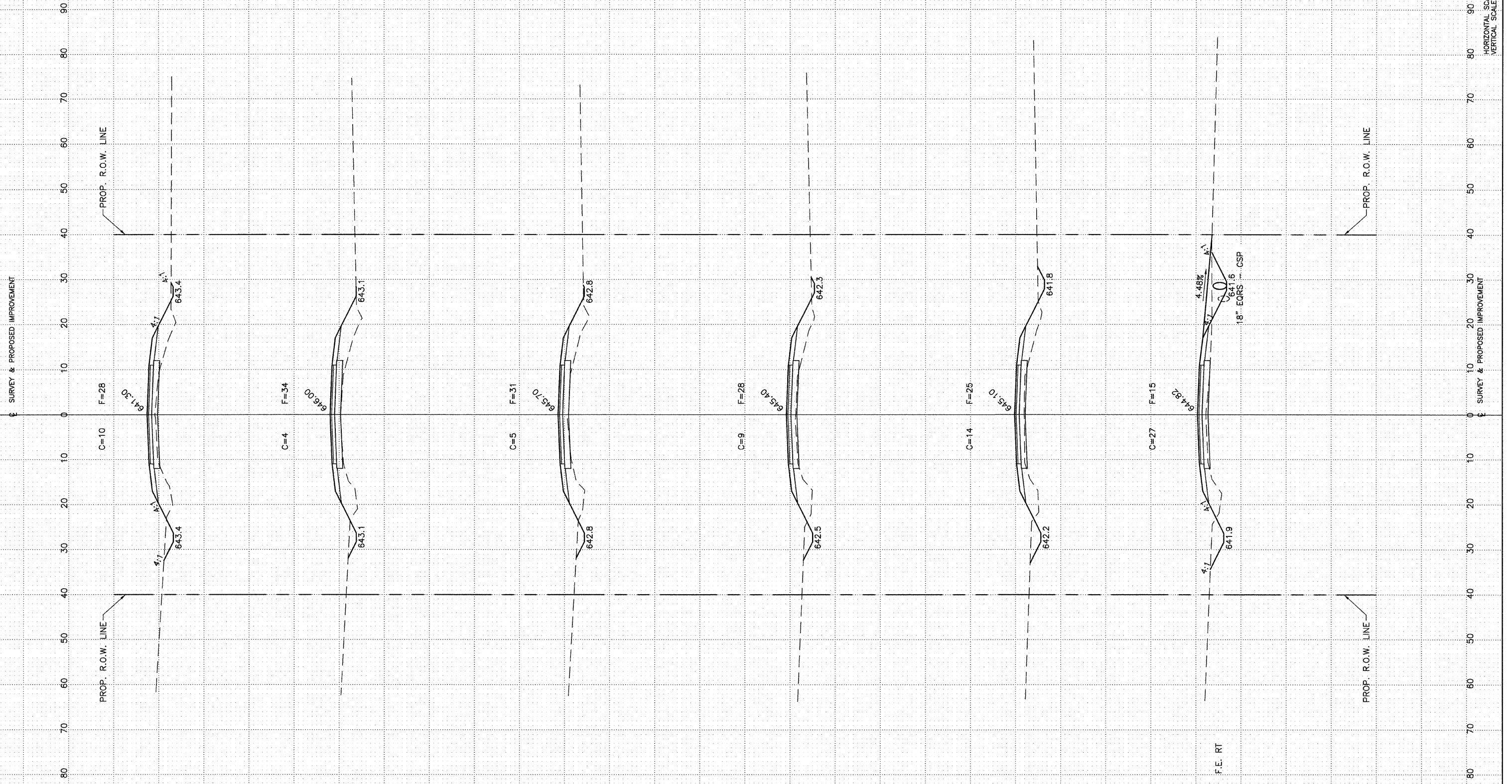
97 + 00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	34
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		



ROADWAY CROSS SECTIONS
 STA. 101+00 TO STA. 106+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

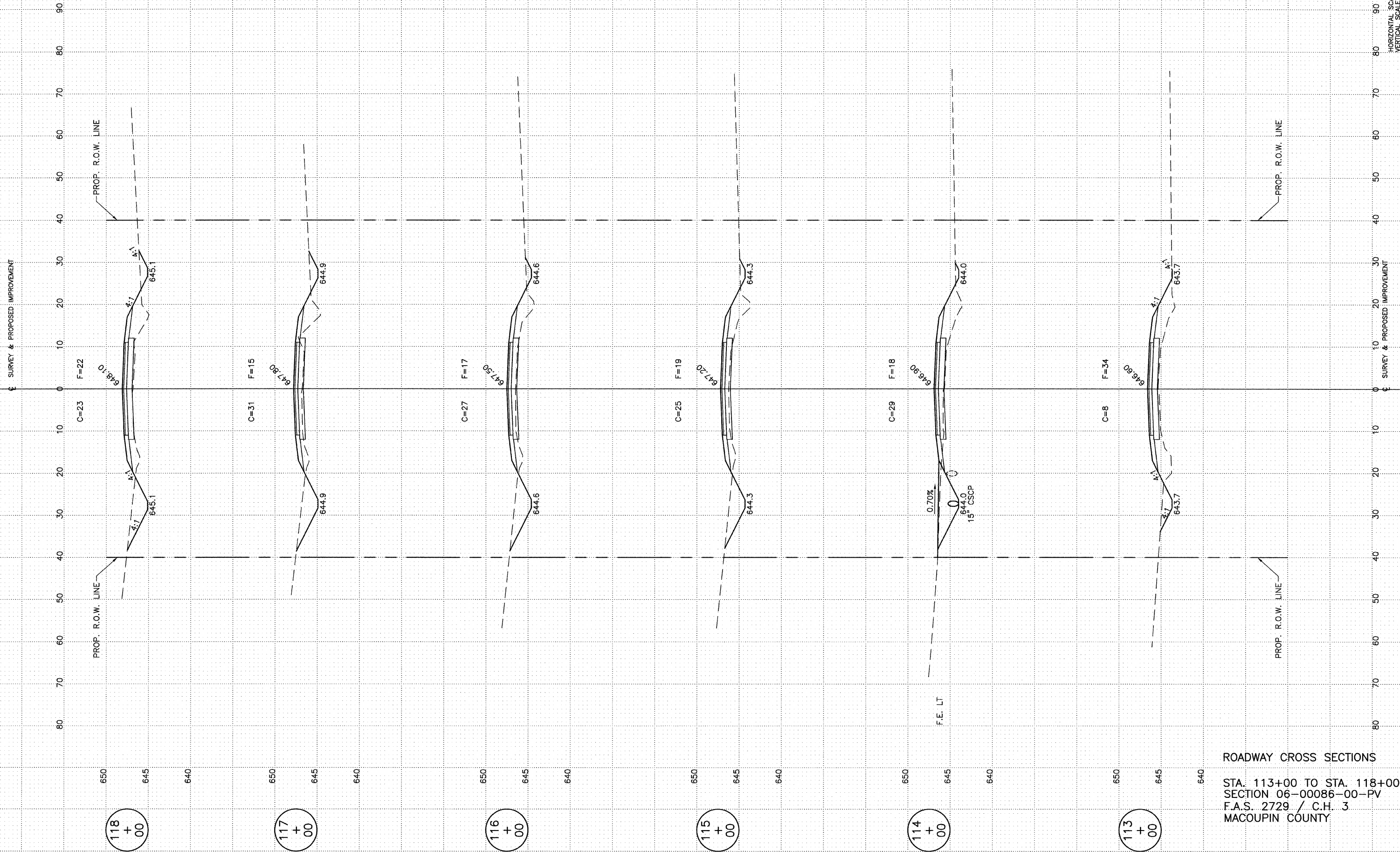
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	35
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



ROADWAY CROSS SECTIONS
 STA. 107+06 TO STA. 112+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

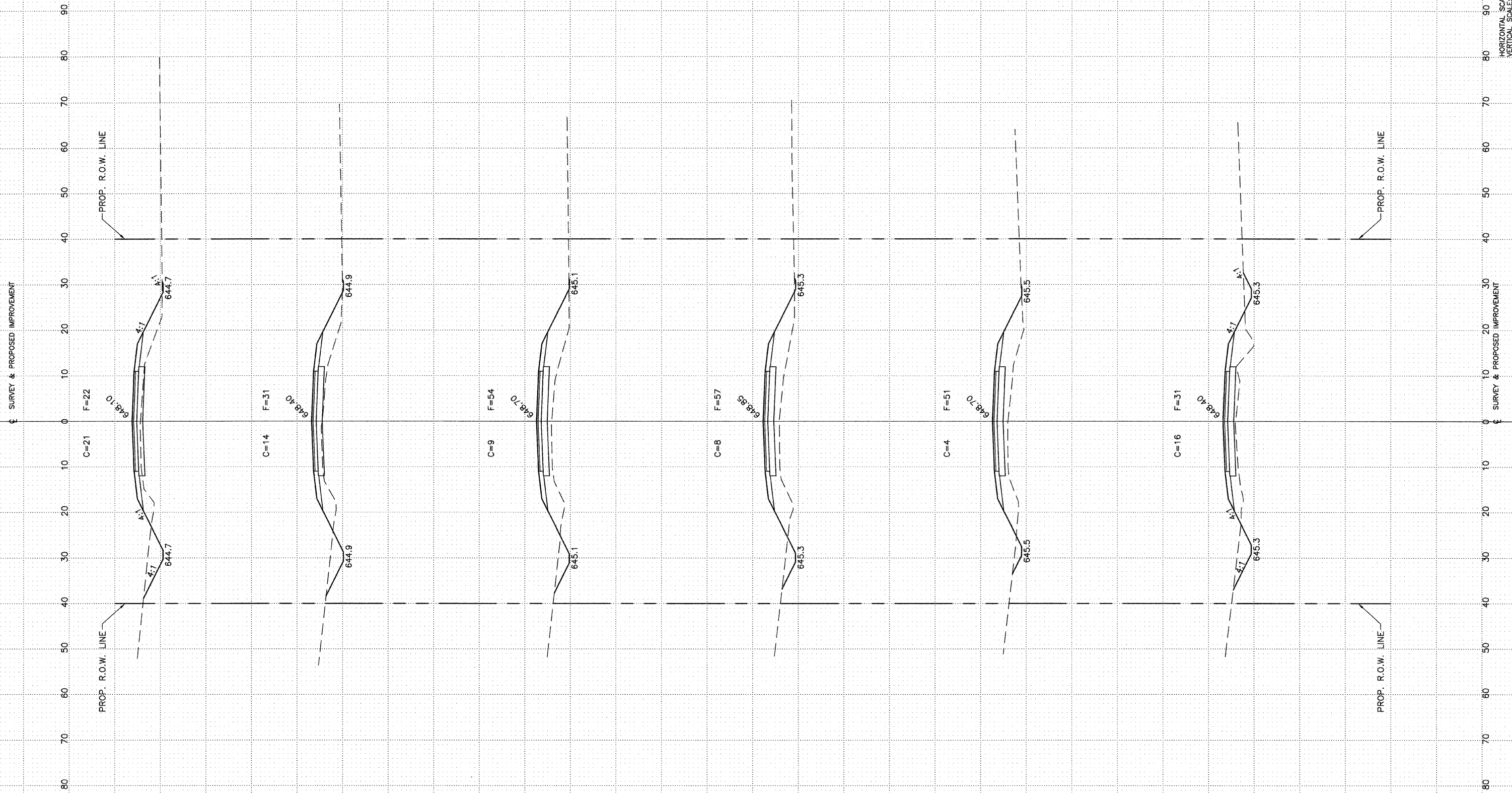
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	36
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



ROADWAY CROSS SECTIONS
 STA. 113+00 TO STA. 118+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

HORIZONTAL SCALE: 10
VERTICAL SCALE: 5

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	37
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		



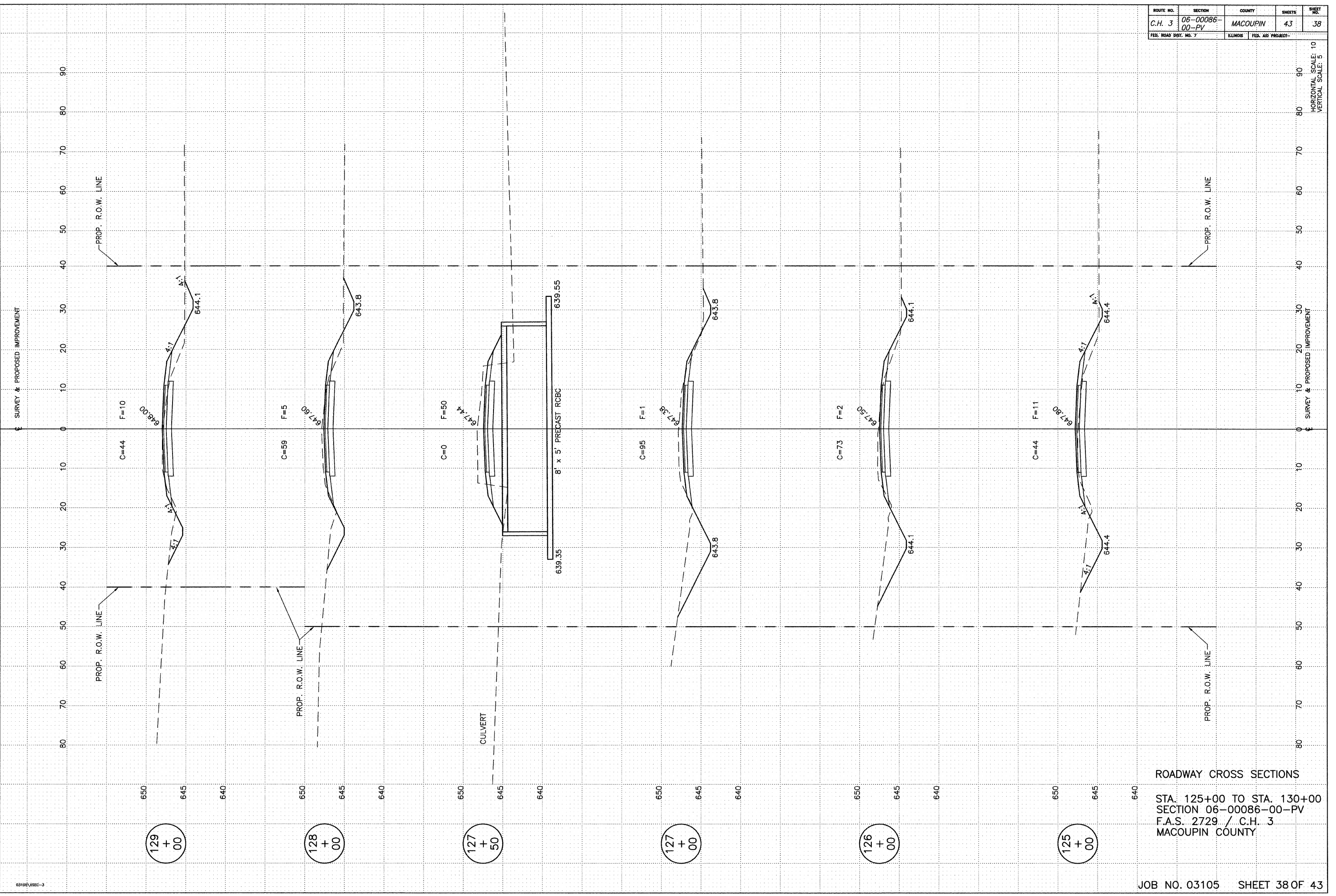
§ SURVEY & PROPOSED IMPROVEMENT

HORIZONTAL SCALE: 10
VERTICAL SCALE: 5

ROADWAY CROSS SECTIONS
 STA. 119+00 TO STA. 124+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

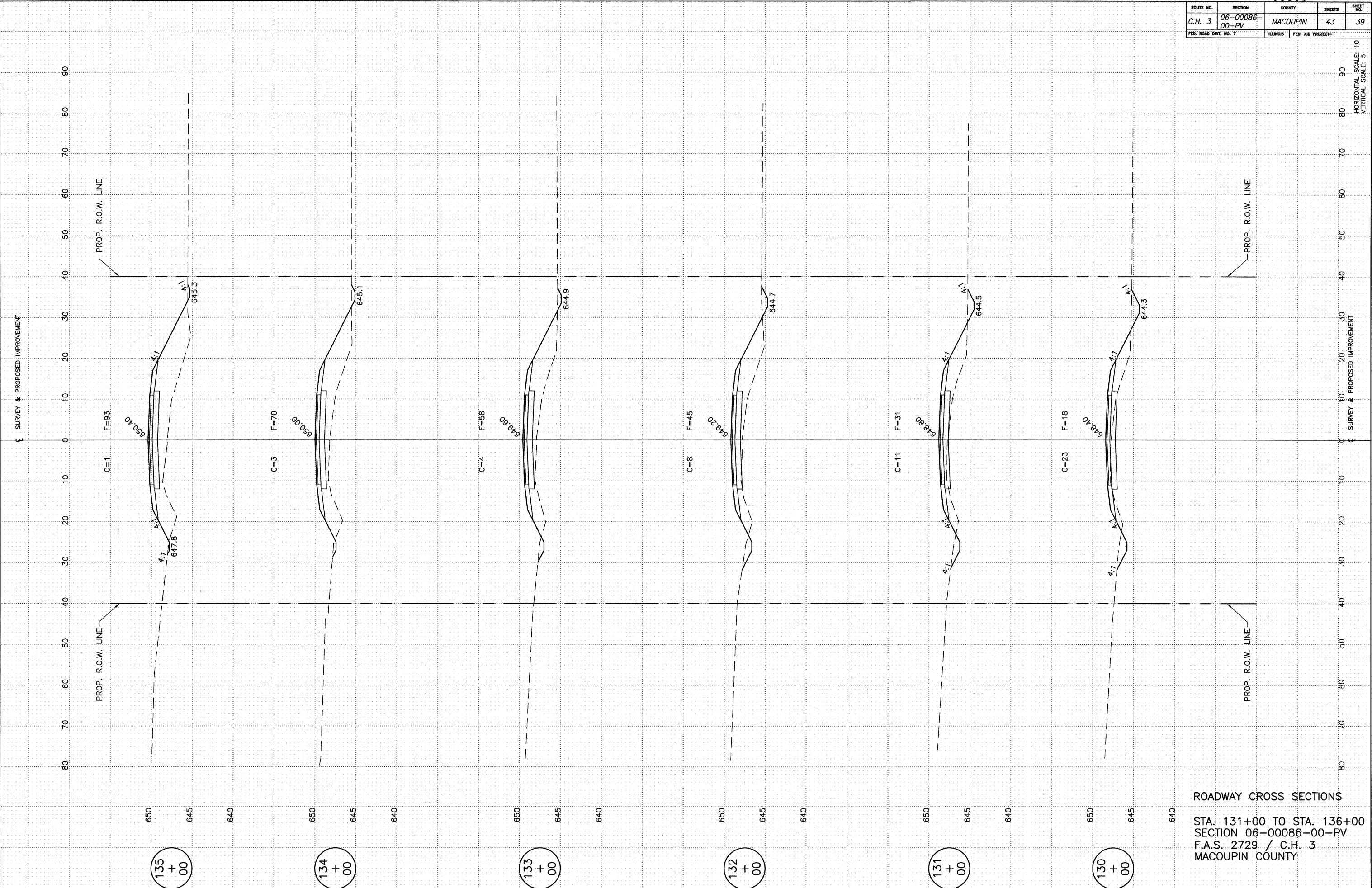
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	38
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 5'



ROADWAY CROSS SECTIONS
 STA. 125+00 TO STA. 130+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

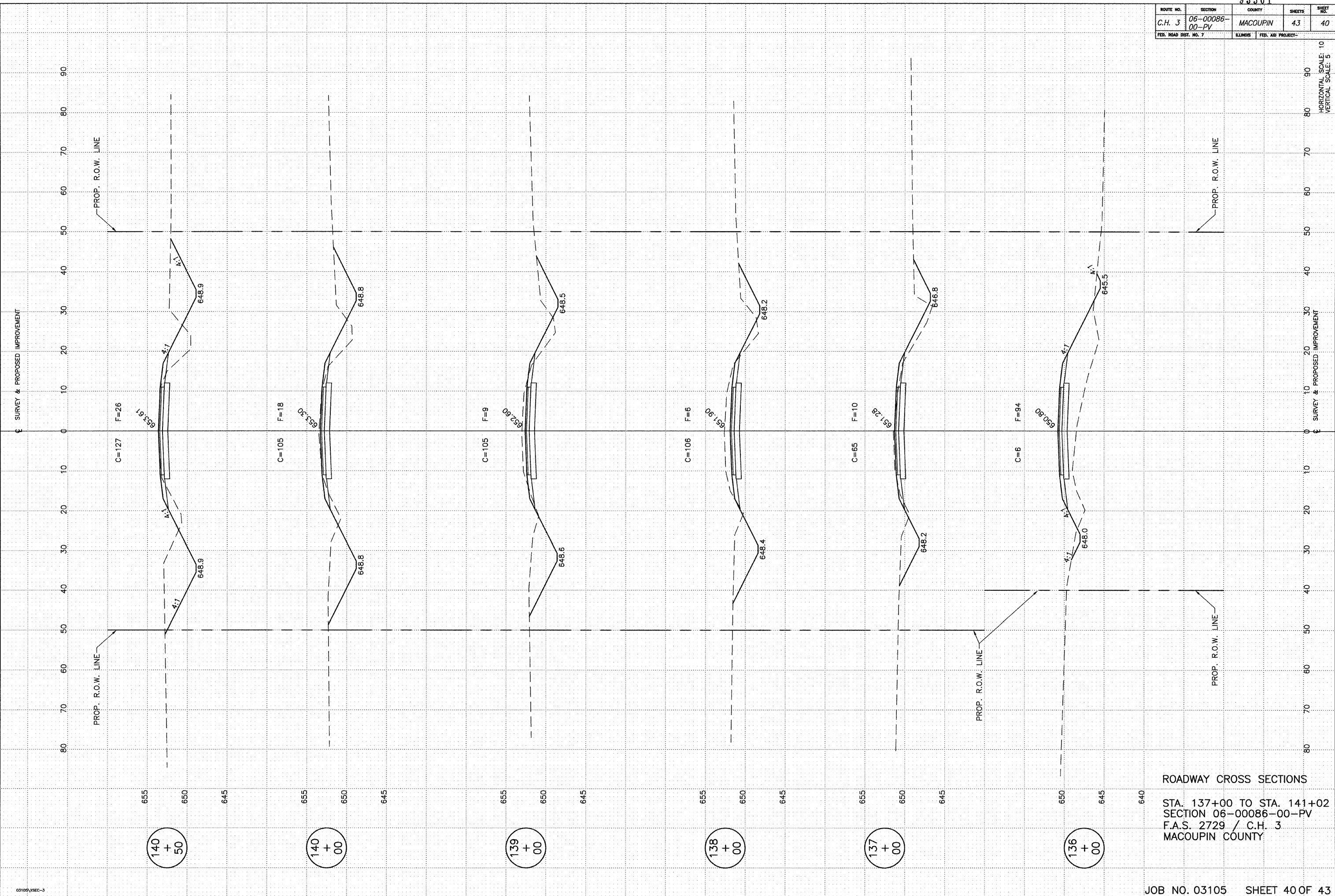
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	39
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		



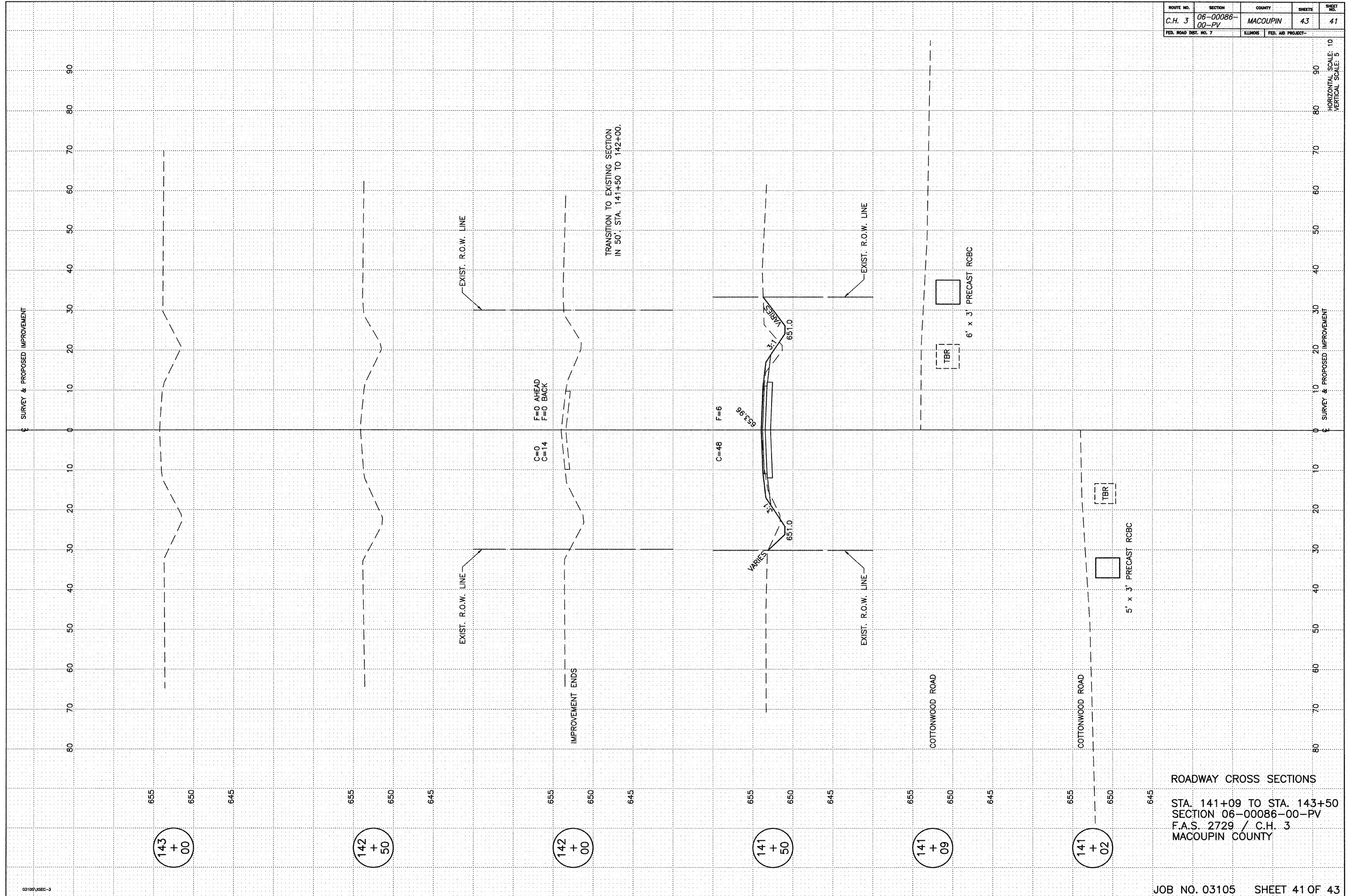
ROADWAY CROSS SECTIONS
 STA. 131+00 TO STA. 136+00
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

HORIZONTAL SCALE: 10
 VERTICAL SCALE: 5

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	40
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

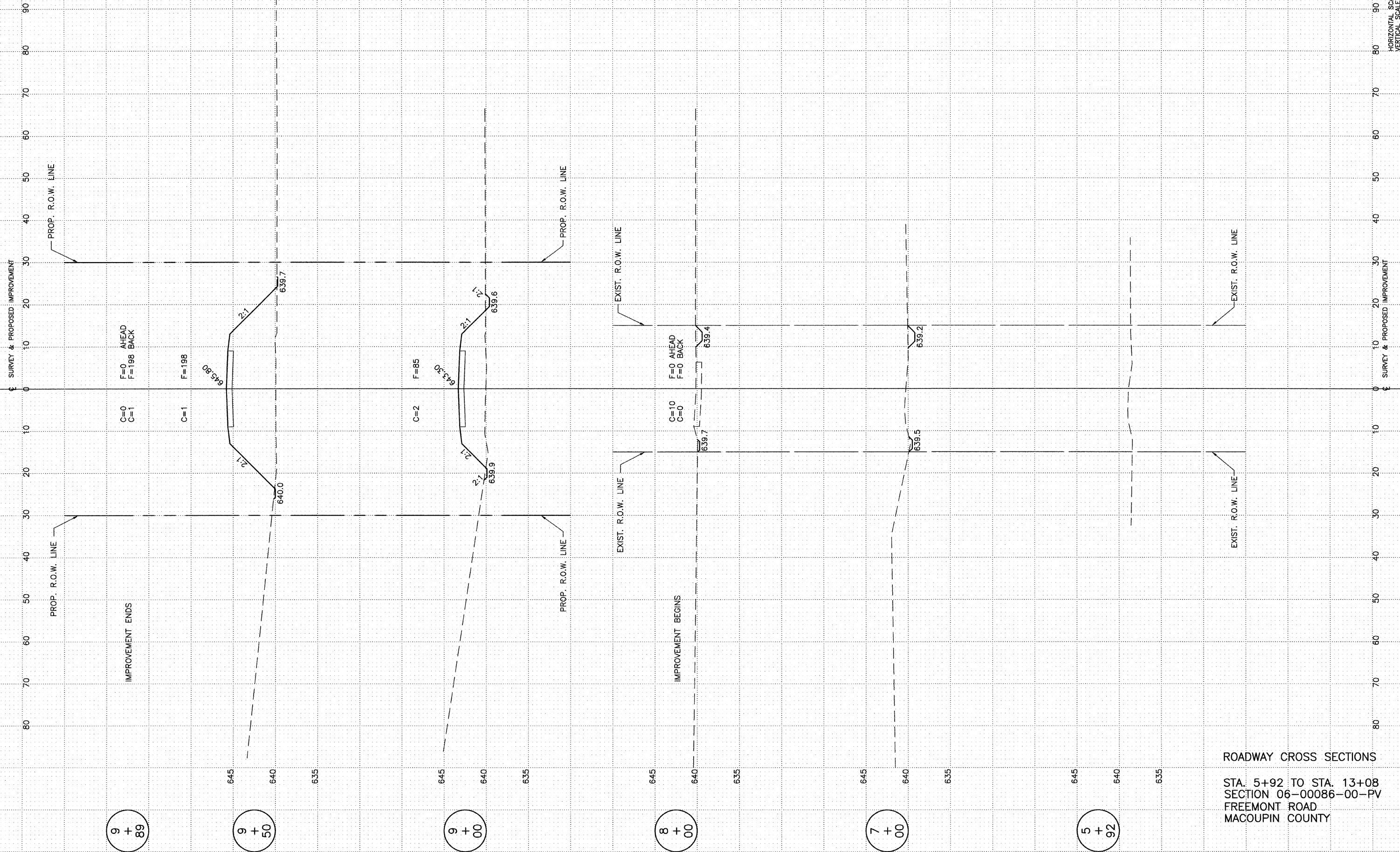


ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	41
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		



ROADWAY CROSS SECTIONS
 STA. 141+09 TO STA. 143+50
 SECTION 06-00086-00-PV
 F.A.S. 2729 / C.H. 3
 MACOUPIN COUNTY

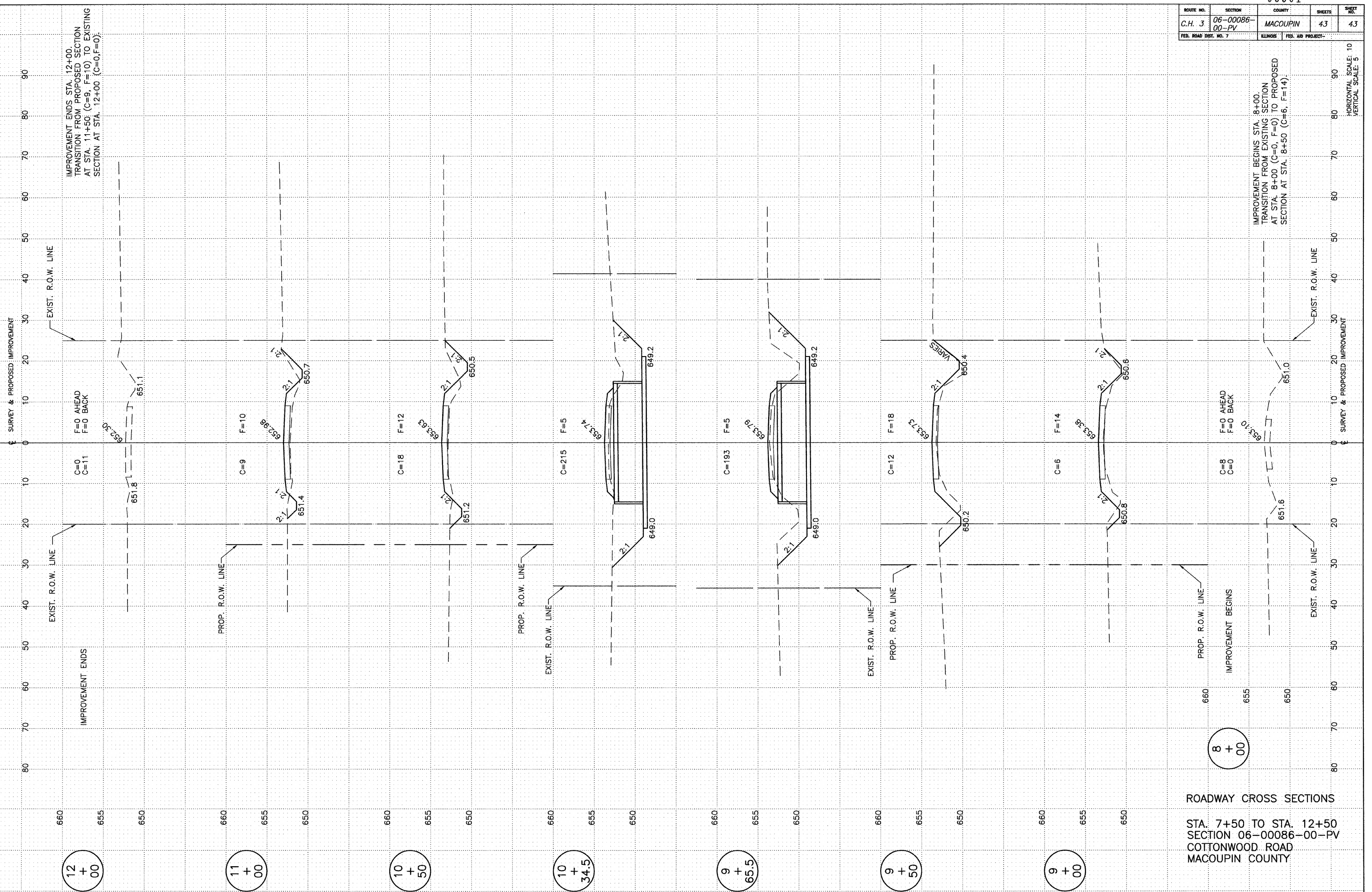
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	42
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		



ROADWAY CROSS SECTIONS
 STA. 5+92 TO STA. 13+08
 SECTION 06-00086-00-PV
 FREEMONT ROAD
 MACOUPIN COUNTY

HORIZONTAL SCALE: 10
 VERTICAL SCALE: 5

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
C.H. 3	06-00086-00-PV	MACOUPIN	43	43
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



ROADWAY CROSS SECTIONS
 STA. 7+50 TO STA. 12+50
 SECTION 06-00086-00-PV
 COTTONWOOD ROAD
 MACOUPIN COUNTY

8 + 00

12 + 00

11 + 00

10 + 50

10 + 34.5

9 + 65.5

9 + 50

9 + 00

± SURVEY & PROPOSED IMPROVEMENT

HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'