

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	1

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

F.A.S. ROUTE 516 / (CH 12)  
SECTION 241BR & 56BR  
PROJECT BHS - RS - 0516 (111)  
CHAMPAIGN COUNTY

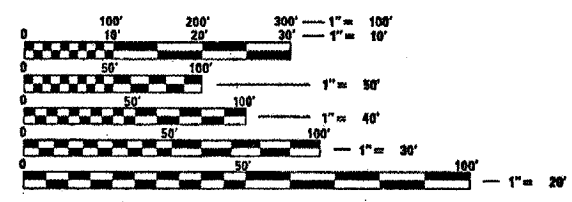
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-6



C-95-015-04  
SUPERSTRUCTURE REPLACEMENT OVER SALT FORK DITCH 4.5 MILES NORTH OF ST. JOSEPH  
BRIDGE REMOVAL / CULVERT REPLACEMENT 2.2 MILES NORTH OF ST. JOSEPH

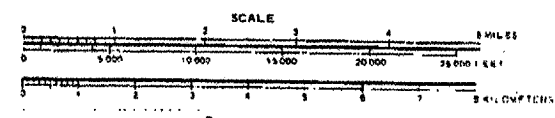
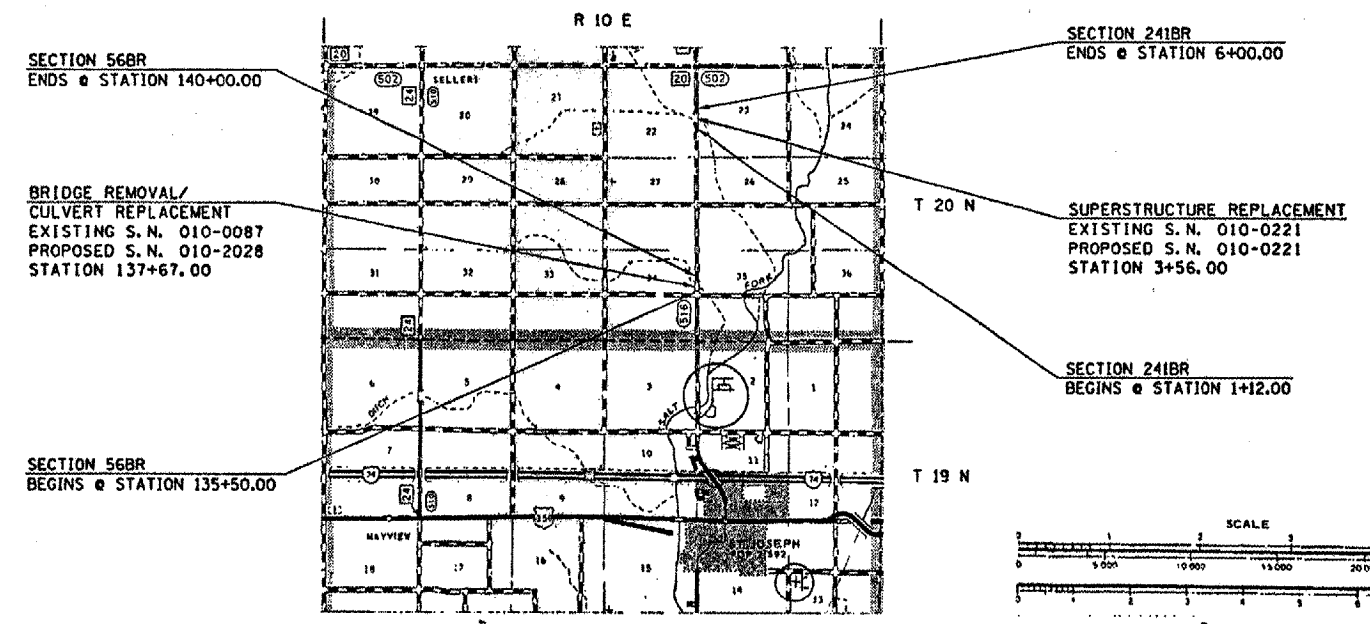
**CURRENT ADT**  
F. A. S. 516 (CH 12) = 1,200 (2005)

**DESIGN DESIGNATION**  
N/A



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 STANTON TOWNSHIP



TOTAL LENGTH OF SECTION & PROJECT = 938.0 FEET = 0.178 MILES  
NET LENGTH OF SECTION & PROJECT = 938.0 FEET = 0.178 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *July 5, 2006*  
*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*August 18, 2006*  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

*August 18, 2006*  
*[Signature]*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

PLOT DATE = 7/5/2006  
 FILE NAME = c:\p\projects\050304\08\cover.dgn  
 PLOT SCALE = 43.2555 7 IN.  
 USER NAME = plrsonbr  
 DESIGNER: GREG EAGLIN  
 SQUAD LEADER: CHRIS GREESON  
 PROJECT ENGINEER: KEVIN TRAPP  
 (217)465-4181

CONTRACT NO. 70359

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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44	TIE POINTS / PROPOSED S.N. 010-2028
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47	DETAIL OF CAST IN PLACE BOX CULVERT END SECTIONS / PROPOSED S.N. 010-2028
48	SOIL BORING LOGS / PROPOSED S.N. 010-2028
49	BUTT JOINT DETAILS / PROPOSED S.N. 010-2028
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50	TYPICAL DETAIL OF RURAL FIELD ENTRANCES / PROPOSED S.N. 010-2028
51	RIPRAP-DETAILS, PAY LIMITS, AND QUANTITIES / PROPOSED S.N. 010-2028
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77	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)
77	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR ROAD CLOSURE
78	DETAIL FOR TREATMENT OF EXISTING FIELD TILE SYSTEMS
79-82	TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS

## LIST OF STANDARDS

STANDARD NUMBER	NAME OF STANDARD
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
442201-01	CLASS C AND D PATCHES
515001-02	NAME PLATE FOR BRIDGES
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401	METAL END SECTION FOR PIPE CULVERTS
630001-06	STEEL PLATE BEAM GUARDRAIL
630101-06	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-03	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
631011-02	TRAFFIC BARRIER TERMINAL, TYPE 2
631032-02	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
666001	RIGHT OF WAY MARKERS
667101	PERMANENT SURVEY MARKERS
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
702001-06	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS

## COMMITMENTS

PARCEL 5425001 - MR. PLOTNER REQUESTS THAT THE EXISTING CORRUGATED PVC CULVERT THAT WILL BE REMOVED AT STATION LT. 136+82.00 BE SALVAGED AND STORED ON HIS PROPERTY. THE CULVERT WAS INSTALLED BY PERMIT AND MR. PLOTNER WANTS TO KEEP THE CULVERT.

PLOT DATE : 7/5/2006  
 FILE NAME : c:\p\projects\ad501384\1481\comment.txt.dgn  
 PLOT SCALE : 43.2355 / IN.  
 USER NAME : pter-sorb

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INDEX OF SHEETS, LIST OF  
 STANDARDS & COMMITMENTS**  
 F.A.S. 516/(C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY

SCALE: NOT TO SCALE  
 DATE: 05/12/06  
 DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

## GENERAL NOTES

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

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

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

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

G.N. -250C  
SEEDING, CLASS 7 AND MULCH, METHOD 2 IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE CLASS 7 SEEDING AND MULCH WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

G.N. -281  
THE RIPRAP GRADATION SHALL BE IN ACCORDANCE WITH THE GRADATION SPECIFIED IN THE PLANS OR, WITH APPROVAL OF THE ENGINEER, A RIPRAP GRADATION MEETING A D50 GREATER THAN OR EQUAL TO 0.50 FEET. D50 IS DEFINED AS THE MEAN ROCK SIZE AS DESCRIBED IN THE FHWA HYDRAULIC ENGINEERING CIRCULARS (HEC 11, HEC 14 AND HEC 15).

IF GRAVEL IS USED FOR THE BEDDING MATERIAL UNDER RIPRAP, THE GRAVEL SHALL BE CRUSHED AS ALLOWED UNDER ARTICLE 1005.01.

G.N. -406  
THE QUANTITIES INCLUDED IN THE PLANS FOR BITUMINOUS CONCRETE RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE BITUMINOUS MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N. -406D  
ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER.

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

G.N. -406F

THIS JOB INCLUDES LEVELING BINDER OF 1 1/4 INCHES OR GREATER THICKNESS. LOCATION OF LEVELING BINDER EQUAL TO OR GREATER THAN 1 1/4 INCHES IN THICKNESS ARE AS FOLLOWS:

S.N. 010-0221  
STATION 1+80.00 TO STATION 2+95.23  
STATION 4+16.77 TO STATION 5+00.00

THE ABOVE LIST MAY NOT BE ALL INCLUSIVE DUE TO CONSTRUCTION VARIATIONS, VARIATIONS BETWEEN PLOTTED CROSS-SECTIONS, OR OTHER REASONS. ALL APPLICABLE REQUIREMENTS OF SECTION 406 OF THE STANDARD SPECIFICATIONS WILL BE ENFORCED FOR ALL LEVELING BINDER CONSTRUCTED 1 1/4 INCHES OR THICKER.

G.N. -406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION (S):	FAS 516 (CH 12)	FAS 516 (CH 12)
MIXTURE USE (S):	SURFACE COURSE	BINDER COURSE
	LEVEL BINDER	CLASS D PATCH
AC/PG:	PG 64-22	PG 64-22
RAP % (MAX):	15 %	25 %
DESIGN AIR Voids:	4.0 % @ Ndes = 50	4.0 % @ Ndes = 50
MIXTURE COMPOSITION:	IL 9.5	IL 19.0
(GRADATION MIXTURE)		
FRICITION AGGREGATE:	MIX C	N/A

G.N. -502.10  
THE CUBICAL DEPOSIT OF COARSE AGGREGATE SHALL BE COMPLETELY ENCLOSED IN A FABRIC ENVELOPE. THE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF SECTION 1080 AND SECTION 282 WITH EITHER THE 6 OZ. OR 8 OZ. PER SQUARE YARD MATERIAL ALLOWED. FREE EDGES SHALL OVERLAP BY 12 inches.

THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS ITEMS REQUIRING PLACEMENT OF THE CUBICAL DEPOSITS OF COARSE AGGREGATE.

G.N. -540

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

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

G.N. -540A

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

G.N. -542

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

G.N. -542B

ALL THE ENTRANCE CULVERTS LENGTHS SHOWN IN THE PLANS WERE CALCULATED WITH THE ASSUMPTION THAT METAL PIPES AND METAL END SECTION WOULD BE USED.

G.N. -1004.01

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

G.N. -1004.03

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

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

G.N. -Z0038

AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\vd01304 (v8)\common\text.dgn  
 PLOT SCALE = 42.3529' / IN.  
 USER NAME = piersebr

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**  
 F.A.S. 516/(C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY

SCALE: NOT TO SCALE  
DATE: 05/12/06

DRAWN BY: B.B.P.  
CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

## SUMMARY OF QUANTITIES

SHEET 1 OF 3

11.5      5

**BHS**      **RS**

FAS 516 / CH 12  
SECTION 241BR  
RURAL  
STA. 1+12.00  
TO  
STA. 6+00.00  
S. N. 010-0221  
80% FED  
20% STATE  
X080-2A

FAS 516 / CH 12  
SECTION 56BR  
RURAL  
STA. 135+50.00  
TO  
STA. 140+00.00  
S. N. 010-2028  
80% FED  
20% STATE  
X028-2A

LOCATION OF WORK:

FUNDING BREAKOUT:

CONSTRUCTION TYPE CODE:

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
20200100	EARTH EXCAVATION	CU YD	810.0	5.0	805.0
20300100	CHANNEL EXCAVATION	CU YD	849.0		849.0
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	34.0	34.0	
20900110	POROUS GRANULAR BACKFILL	CU YD	308.0		308.0
25000200	SEEDING, CLASS 2	ACRE	0.9	0.4	0.5
25000350	SEEDING, CLASS 7	ACRE	0.9	0.4	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	77.0	31.0	46.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	77.0	31.0	46.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	77.0	31.0	46.0
25100115	MULCH, METHOD 2	ACRE	0.9	0.4	0.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	85.0	34.0	51.0
28000300	TEMPORARY DITCH CHECKS	EACH	7.0		7.0
28000400	PERIMETER EROSION BARRIER	FOOT	1,242.0	928.0	314.0
28000500	INLET AND PIPE PROTECTION	EACH	2.0	1.0	1.0
28100107	STONE RIPRAP, CLASS A-4	SQ YD	931.0	606.0	325.0
28200200	FILTER FABRIC	SQ YD	931.0	606.0	325.0
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	81.0	59.0	22.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	238.0	118.0	120.0
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	615.0	348.0	267.0

• SPECIALTY ITEM

PLOT DATE = 6/30/2006  
 FILE NAME = c:\projects\70359\70359.dwg  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = p1er-sonb

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SUMMARY OF QUANTITIES**  
(SHEET 1 OF 3)

F.A.S. 516/(C.H. 12)  
SECTION 241BR & 56BR  
CHAMPAIGN COUNTY

SCALE: NOT TO SCALE      DRAWN BY: B.B.P.  
DATE: 05/12/06      CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

## SUMMARY OF QUANTITIES

SHEET 2 OF 3

BHS

RS

LOCATION OF WORK:

FAS 516 / CH 12  
SECTION 241BR  
RURAL  
STA. 1+12.00  
TO  
STA. 6+00.00  
S.N. 010-0221  
80% FED  
20% STATE  
X080-2A

FAS 516 / CH 12  
SECTION 56BR  
RURAL  
STA. 135+50.00  
TO  
STA. 140+00.00  
S.N. 010-2028  
80% FED  
20% STATE  
X028-2A

FUNDING BREAKOUT:

CONSTRUCTION TYPE CODE:

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
44000100	PAVEMENT REMOVAL	SO YD	100.0		100.0
44201765	CLASS D PATCH, TYPE II, 10 INCH	SO YD	58.0	58.0	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	94.0		94.0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0		1.0
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1.0	1.0	
50104000	BRIDGE RAIL REMOVAL	FOOT	228.0	228.0	
50105210	REMOVE EXISTING CULVERTS	FOOT	41.0		41.0
50200100	STRUCTURE EXCAVATION	CU YD	42.0	42.0	
50300225	CONCRETE STRUCTURES	CU YD	1.2	1.2	
50300260	BRIDGE DECK GROOVING	SO YD	374.0	374.0	
50300300	PROTECTIVE COAT	SO YD	400.0	400.0	
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SO FT	3,600.0	3,600.0	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,220.0	5,220.0	
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	240.0	240.0	
51500100	NAME PLATES	EACH	2.0	1.0	1.0
54001000	BOX CULVERT END SECTIONS	EACH	2.0		2.0
54021212	PRECAST CONCRETE BOX CULVERT, 12' X 12' (M273)	FOOT	64.0		64.0
54213450	END SECTIONS, 15"	EACH	2.0		2.0
54200220	PIPE CULVERT, CLASS D, TYPE I, 15"	FOOT	46.0		46.0
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	24.0	24.0	
60100915	PIPE DRAINS, 6"	FOOT	16.0		16.0
60109580	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	106.0	106.0	
	SPECIALTY ITEM				

PLOT DATE = 6/28/2006  
 FILE NAME = c:\work\mcs\501304 iv8\comment.txt.dgn  
 PLOT SCALE = 43.2355 \* 7 IN.  
 USER NAME = piersunbr

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SUMMARY OF QUANTITIES**

(SHEET 2 OF 3)

F.A.S. 516/(C.H. 12)  
SECTION 241BR & 56BR  
CHAMPAIGN COUNTY

SCALE: NOT TO SCALE DRAWN BY: B.B.P.

DATE: 05/12/06 CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

## SUMMARY OF QUANTITIES

SHEET 3 OF 3

BHS      RS

LOCATION OF WORK:

FAS 516 / CH 12  
SECTION 241BR  
RURAL  
STA. 1+12.00  
TO  
STA. 6+00.00  
S. N. 010-0221  
80% FED  
20% STATE  
X080-2A

FAS 516 / CH 12  
SECTION 56BR  
RURAL  
STA. 135+50.00  
TO  
STA. 140+00.00  
S. N. 010-2028  
80% FED  
20% STATE  
X028-2A

FUNDING BREAKOUT:

CONSTRUCTION TYPE CODE:

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
• 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	475.0	150.0	325.0
• 63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	100.0		100.0
• 63000025	STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE	FOOT	50.0		50.0
• 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4.0	3.0	1.0
• 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4.0	4.0	
• 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	6.0	3.0	3.0
63200310	GUARDRAIL REMOVAL	FOOT	475.0	225.0	250.0
• 63300725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	54.0	40.5	13.5
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8.0		8.0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5.0	2.0	3.0
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1.0	0.5	0.5
• 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,126.0	1,106.0	1,020.0
• 78200405	GUARDRAIL MARKERS	EACH	20.0	12.0	8.0
• 78201000	TERMINAL MARKER DIRECT APPLIED	EACH	10.0	6.0	4.0
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SO FT	2.0	2.0	
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	209.0	104.0	105.0
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	232.0		232.0
X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N50	TON	70.0	70.0	
X5030305	CONCRETE WEARING SURFACE, 5"	SO YD	400.0	400.0	
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1.0	0.5	0.5
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	22.0	22.0	
Z0038700	PERMANENT BENCH MARKS	EACH	2.0	1.0	1.0
•	SPECIALTY ITEM				

PLOT DATE : 6/30/2006  
 FILE NAME : c:\projects\fd501304 (v8)\comment.txt.dgn  
 PLOT SCALE : 43.2355' / IN.  
 USER NAME : piersonb

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

(SHEET 3 OF 3)

F.A.S. 516/(C.H. 12)  
SECTION 241BR & 56BR  
CHAMPAIGN COUNTY

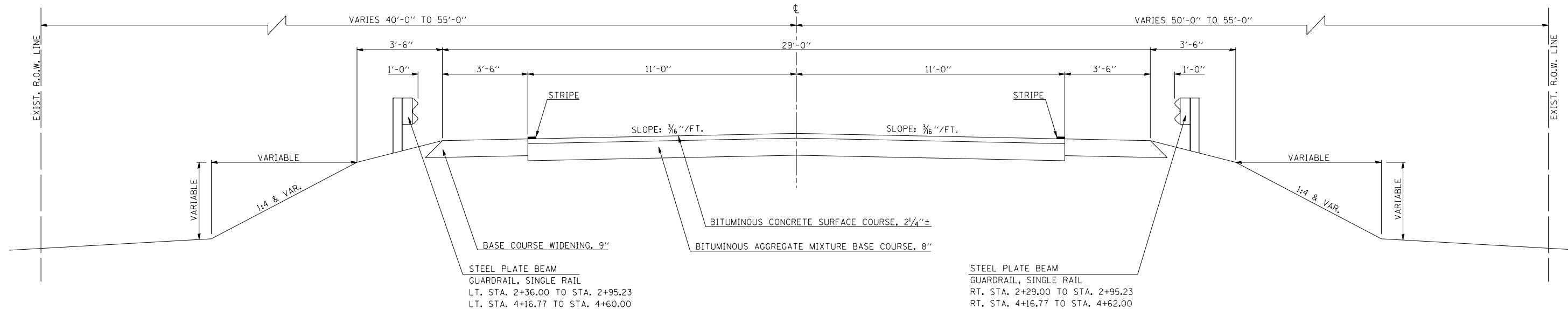
SCALE: NOT TO SCALE      DRAWN BY: B.B.P.  
DATE: 05/12/06      CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### EXISTING TYPICAL CROSS SECTION (A)

EXISTING S.N. 010-0221

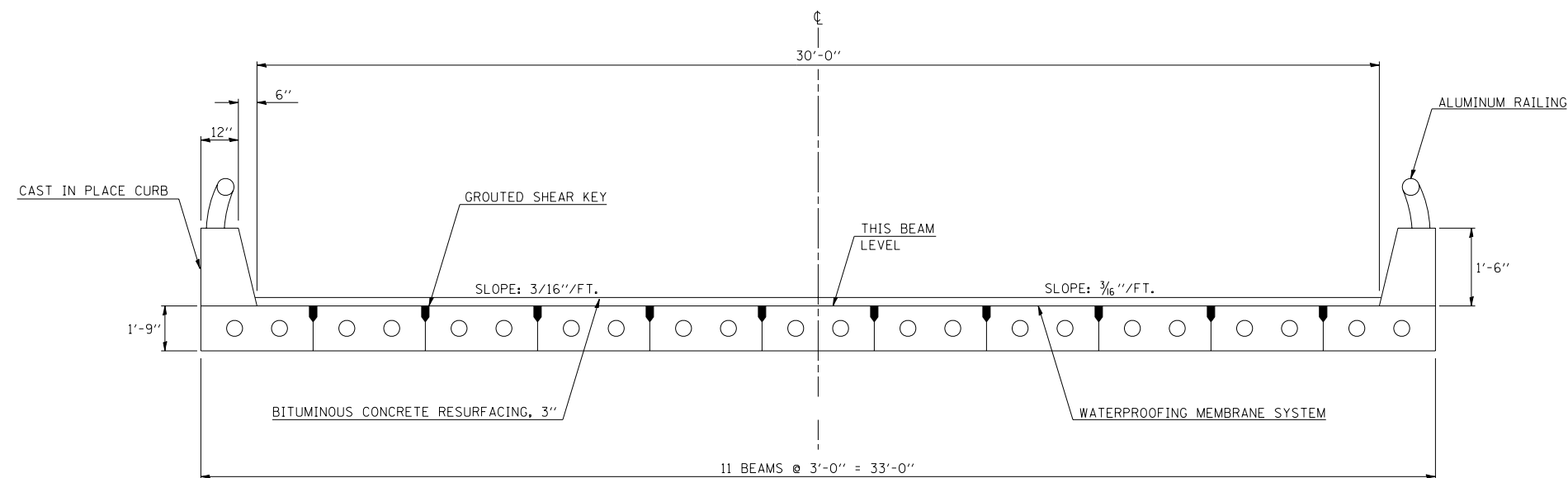
STATION 1+12.00 TO STATION 2+95.23 (B)  
 (B) STATION 4+16.77 TO STATION 4+74.30 (C)



### EXISTING TYPICAL CROSS SECTION (B)

EXISTING S.N. 010-0221

(A) STATION 2+95.23 TO STATION 4+16.77 (A)



ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXISTING TYPICAL CROSS SECTIONS  
 EXISTING S.N. 010-0221

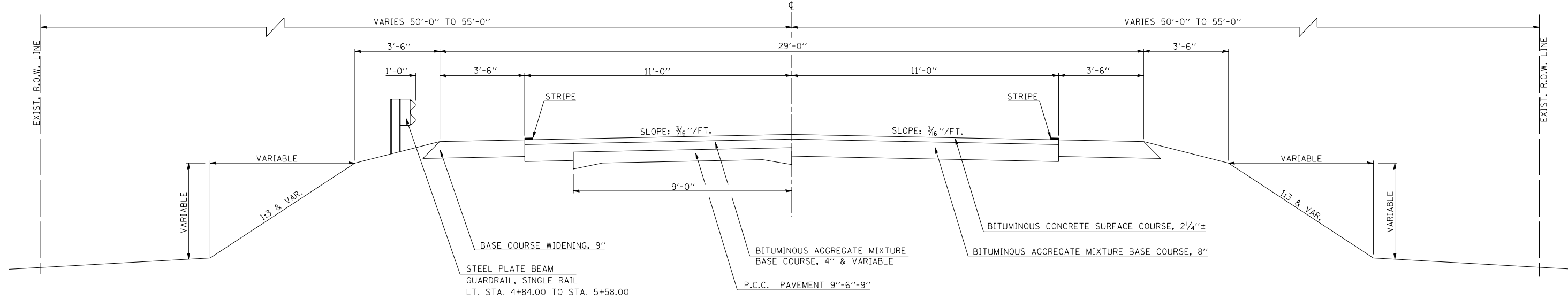
F.A.S. 516/C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY

SCALE: NOT TO SCALE  
 DATE: 05/12/06  
 DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# EXISTING TYPICAL CROSS SECTION (C)

EXISTING S.N. 010-0221  
 (A) STATION 4+74.30 TO STATION 6+00.00



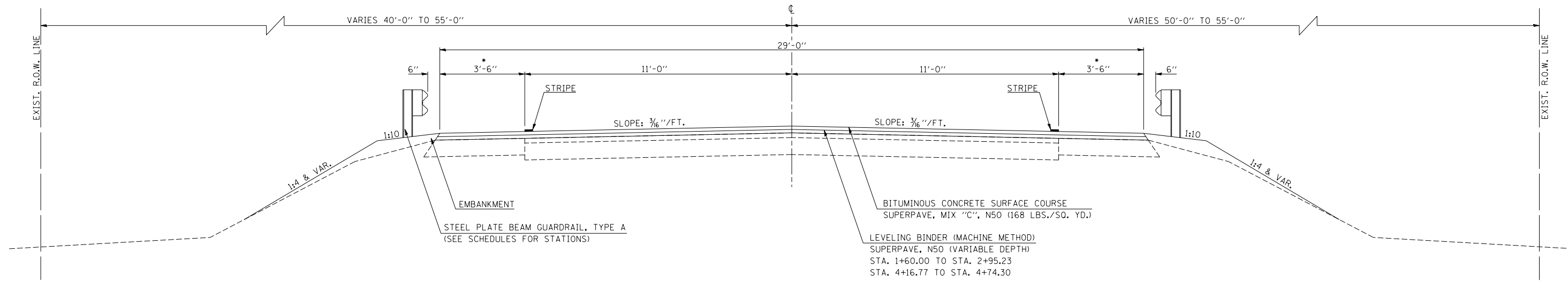
PLOT DATE = 7/6/2006  
 FILE NAME = G:\projects\050304 (v8)\0221\typical.dgn  
 USER NAME = piersonbr

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXISTING TYPICAL CROSS SECTIONS  
 EXISTING S.N. 010-0221  
 F.A.S. 516/C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY  
 SCALE: NOT TO SCALE  
 DATE: 05/12/06  
 DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### PROPOSED TYPICAL CROSS SECTION ①

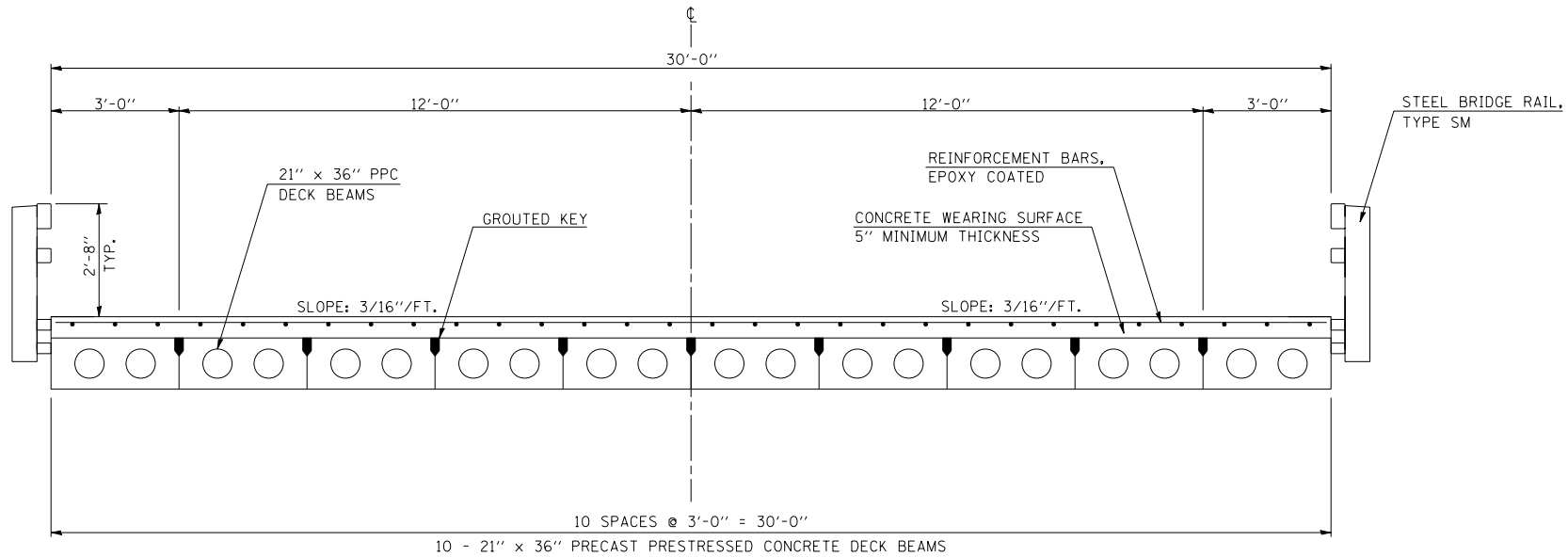
PROPOSED S.N. 010-0221  
 STATION 1+12.00 TO STATION 2+95.23 ②  
 ② STATION 4+16.77 TO STATION 4+74.30 ③



• NOTE: THE SHOULDER SHALL BE RESURFACED SIMULTANEOUSLY WITH THE MAINLINE

### PROPOSED TYPICAL CROSS SECTION ②

PROPOSED S.N. 010-0221  
 ① STATION 2+95.23 TO STATION 4+16.77 ①



PLOT DATE = 7/6/2006  
 FILE NAME = G:\projects\050304 (v8)\0221\typical.dgn  
 USER NAME = pier.sombr

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PROPOSED TYPICAL CROSS SECTIONS  
 PROPOSED S.N. 010-0221  
 F.A.S. 516/C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY  
 SCALE: NOT TO SCALE  
 DATE: 05/12/06  
 DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.

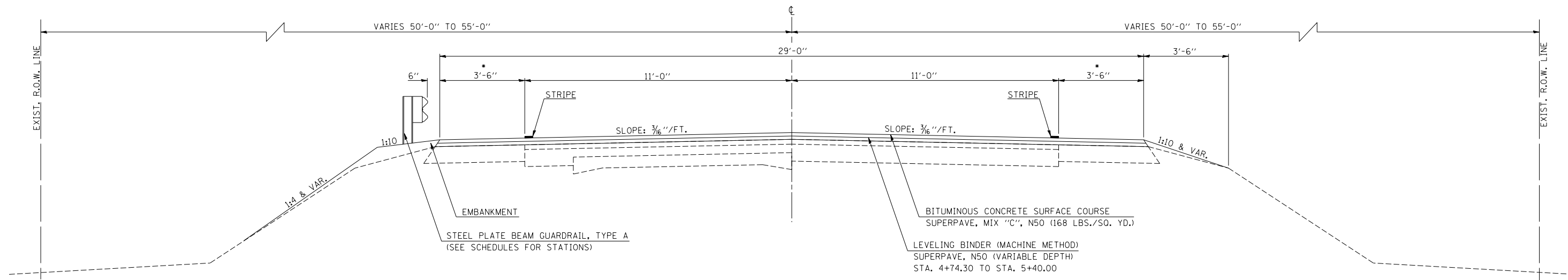


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# PROPOSED TYPICAL CROSS SECTION ③

PROPOSED S.N. 010-0221

① STATION 4+74.30 TO STATION 6+00.00



• NOTE: THE SHOULDER SHALL BE RESURFACED SIMULTANEOUSLY WITH THE MAINLINE

PLOT DATE = 7/6/2006  
 FILE NAME = G:\projects\050304 (v8)\0221\typical.dgn  
 USER NAME = pier.somb

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PROPOSED TYPICAL CROSS SECTIONS  
 PROPOSED S.N. 010-0221  
 F.A.S. 516/C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY  
 SCALE: NOT TO SCALE  
 DATE: 05/12/06  
 DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

## SCHEDULE OF QUANTITIES

### PROPOSED S.N. 010-0221

#### SHEET 1 OF 2

44201765 CLASS D PATCH, TYPE II, 10 INCH

STATION	TO	STATION	WIDTH (FT)	QUANTITY (SQ YD)
RT. 2+86.23		RT. 2+95.23	14.5	14.50
LT. 2+86.23		LT. 2+95.23	14.5	14.50
RT. 4+16.77		RT. 4+25.77	14.5	14.50
LT. 4+16.77		LT. 4+25.77	14.5	14.50
TOTAL =				58.00 SQ YD

40600980 BITUMINOUS SURFACE REMOVAL - BUTT JOINT

STATION	TO	STATION	WIDTH (FT)	QUANTITY (SQ YD)
RT. 1+12.00		RT. 1+50.00	14.5	61.22
LT. 1+12.00		LT. 1+50.00	14.5	61.22
RT. 5+30.00		RT. 6+00.00	14.5	112.78
LT. 5+30.00		LT. 6+00.00	14.5	112.78
TOTAL =				348.0 SQ YD

40200800 AGGREGATE SURFACE COURSE, TYPE B

STATION	LOCATION	QUANTITY (TON)
LT. 2+10.00	FIELD ENTRANCE	18.0
RT. 4+75.00	FIELD ENTRANCE	23.0
LT. 4+76.50	FIELD ENTRANCE	18.0
TOTAL =		59.0 TON

50104000 BRIDGE RAIL REMOVAL

STATION	TO	STATION	QUANTITY (FOOT)
RT. 2+95.00		RT. 4+09.00	114.0
LT. 3+03.00		LT. 4+17.00	114.0
TOTAL =			228.0 FOOT

63200310 GUARDRAIL REMOVAL

STATION	TO	STATION	QUANTITY (FOOT)
RT. 2+29.00		RT. 2+91.50	62.5
LT. 2+36.00		LT. 2+98.50	62.5
RT. 4+12.00		RT. 4+60.00	50.0 (RADIUS RAIL)
LT. 4+20.00		LT. 4+60.00	50.0 (RADIUS RAIL)
TOTAL =			225.0 FOOT

63000000 STEEL PLATE BEAM GUARDRAIL, TYPE A

STATION	TO	STATION	QUANTITY (FOOT)
RT. 1+47.87		RT. 2+60.37	112.5
LT. 2+42.29		LT. 2+67.29	25.0
LT. 5+50.23		LT. 5+62.73	12.5
TOTAL =			150.0 FOOT

63300725 STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)

STATION	TO	STATION	QUANTITY (FOOT)
LT. 2+33.79		LT. 2+42.29	13.5
RT. 4+44.71		RT. 4+53.21	13.5
LT. 4+51.63		LT. 4+60.13	13.5
TOTAL =			40.5 FOOT

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

STATION	TO	STATION	QUANTITY (EACH)
RT. 0+97.87		RT. 1+47.87	1.0
LT. 5+00.23		LT. 5+50.23	1.0
LT. 5+62.73		LT. 6+12.73	1.0
TOTAL =			3.0 EACH

PLOT DATE = 7/6/2006  
 FILE NAME = G:\projects\050304 (v8)\0221text.dgn  
 PLOT NAME = 02.0523 / IN.  
 USER NAME = piersonbr

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SCHEDULE OF QUANTITIES**  
**PROPOSED S.N. 010-0221**  
 F.A.S. 516/C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY

SCALE: NOT TO SCALE      DRAWN BY: B.B.P.  
 DATE: 05/12/06              CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

## SCHEDULE OF QUANTITIES

### PROPOSED S.N. 010-0221

#### SHEET 2 OF 2

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A

STATION	TO	STATION	QUANTITY (EACH)
RT. 2+60.37	—	RT. 2+91.77	1.0
LT. 2+67.29		LT. 2+98.69	1.0
RT. 4+13.31		RT. 4+44.71	1.0
LT. 4+20.23		LT. 4+51.63	1.0
TOTAL =			4.0 EACH

63100045 TRAFFIC BARRIER TERMINAL, TYPE 2

STATION	OFFSET	QUANTITY (EACH)
LT. 2+33.79	23.5 FT TO 36.0 FT	1.0
RT. 4+53.21	23.5 FT TO 36.0 FT	1.0
LT. 4+60.13	23.5 FT TO 36.0 FT	1.0
TOTAL =		3.0 EACH

78200405 GUARDRAIL MARKERS

STATION	TO	STATION	QUANTITY (EACH)
RT. 1+47.87	—	RT. 2+91.77	4.0
LT. 2+33.79		LT. 2+98.69	2.0
RT. 4+13.31		RT. 4+53.21	2.0
LT. 4+20.23		LT. 4+60.13	2.0
LT. 5+50.23		LT. 5+62.73	2.0
TOTAL =			12.0 EACH

78201000 TERMINAL MARKER - DIRECT APPLIED

STATION	QUANTITY (EACH)	
RT. 0+97.87	1.0	
LT. 2+33.79	1.0	
RT. 4+53.21	1.0	
LT. 4+60.13	1.0	
LT. 5+00.23	1.0	
LT. 6+12.73	1.0	
TOTAL =		6.0 EACH

78001110 PAINT PAVEMENT MARKING - LINE 4"

LOCATION	STATION	TO	STATION	QUANTITY (FOOT)	COLOR
CENTERLINE	1+12.00	—	6+00.00	130.0	YELLOW
EDGE LINE	RT. 1+12.00		RT. 6+00.00	488.0	WHITE
EDGE LINE	LT. 1+12.00		LT. 6+00.00	488.0	WHITE
TOTAL =					1,106.0 FOOT

EARTHWORK

LOCATION	20200100 EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
RT. STA. 0+63.87 TO 2+90.10	0.0	0.0	24.0	- 24.0
RT. STA. 4+12.50 TO 6+10.00	0.0	0.0	58.0	- 58.0
LT. STA. 1+12.00 TO 3+00.00	0.0	0.0	17.0	- 17.0
LT. STA. 4+22.30 TO 6+46.73	0.0	0.0	56.0	- 56.0
LT. STA. 2+10.00 (F.E.)				
STA. 100+15.00 TO 105+55.00	0.0	0.0	12.0	- 12.0
LT. STA. 4+76.50 (F.E.)				
STA. 105+15.00 TO 105+55.00	0.0	0.0	14.0	- 14.0
RT. STA. 4+75.00 (F.E.)				
STA. 110+15.00 TO 110+55.00	5.0	3.8	7.0	- 3.2
TOTAL =		5.0 CU YD	3.8 CU YD	188.0 CU YD - 184.2 CU YD

EARTH EXCAVATION = 5.0 CU YD  
SHRINKAGE FACTOR = 25.0 %

•• NOTE: THE SUITABLE WASTE MATERIAL EXCAVATED FROM S.N. 010-2028 SHALL BE TRANSPORTED TO S.N. 010-0221 AND USED AS EMBANKMENT. (SEE SHEET 43)

PLOT DATE = 7/6/2006  
 FILE NAME = G:\projects\050304 (v8)\0221text.dgn  
 USER NAME = piersonbr

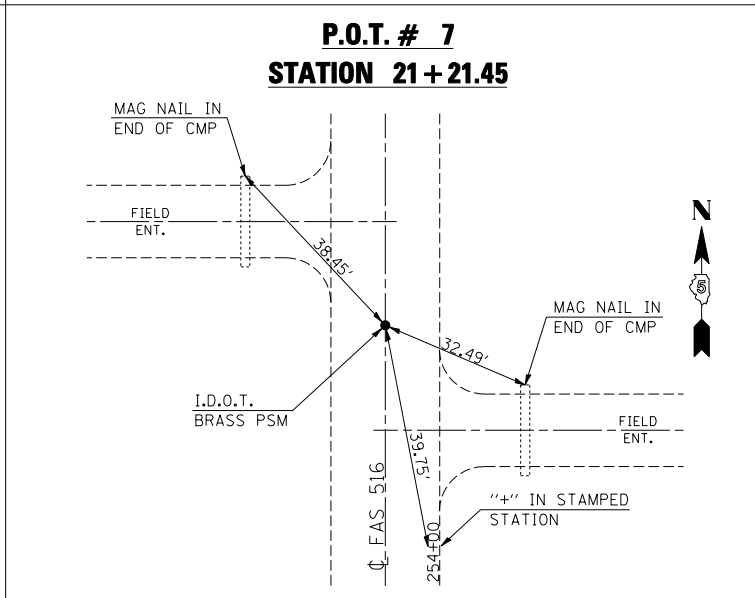
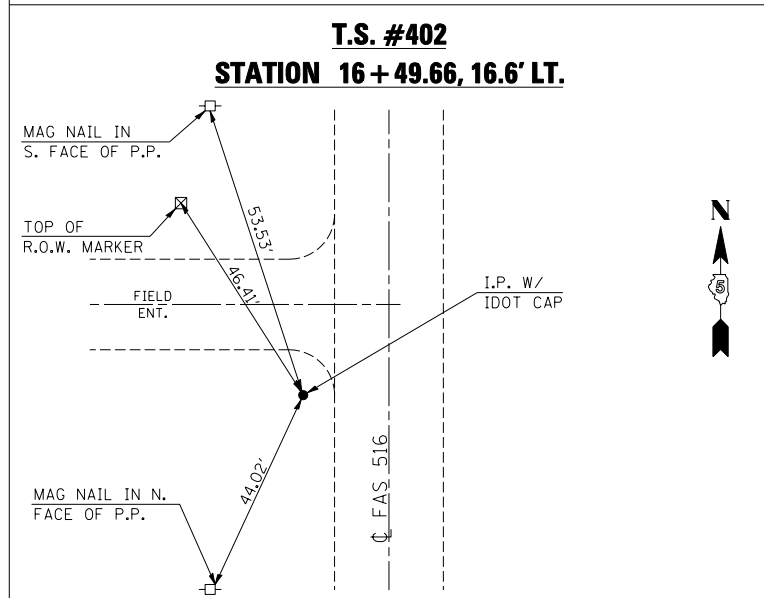
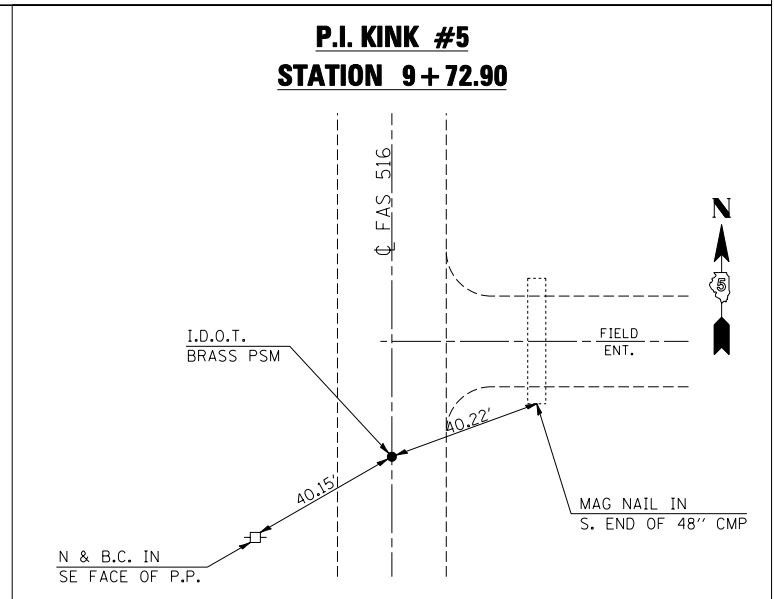
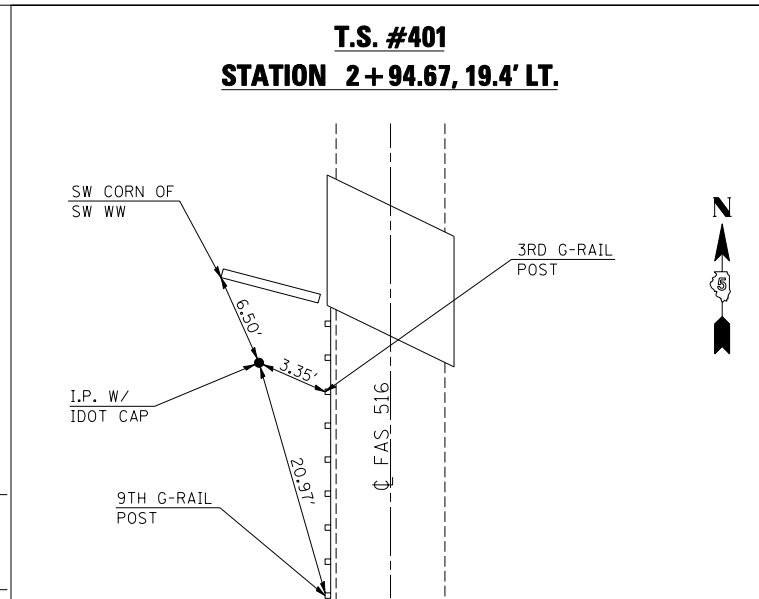
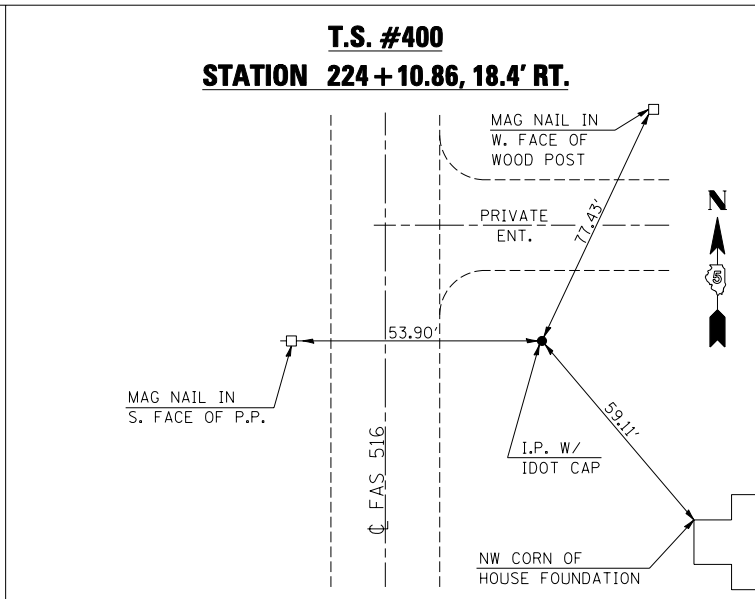
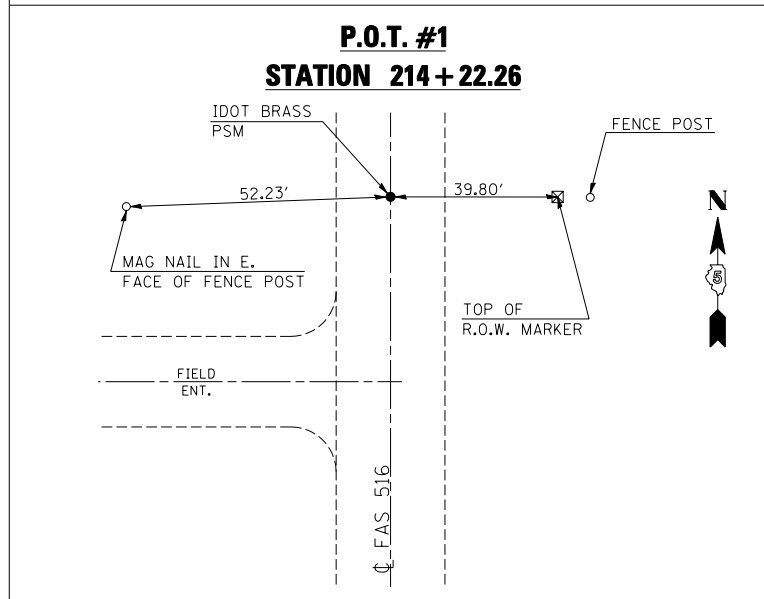
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SCHEDULE OF QUANTITIES**  
**PROPOSED S.N. 010-0221**  
 F.A.S. 516/C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY

SCALE: NOT TO SCALE  
 DATE: 05/12/06  
 DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TIE POINTS

PROPOSED S.N. 010-0221



# BENCHMARKS

PROPOSED S.N. 010-0221

- B.M. 4688-1** CHISELED SQUARE FROM THE INTERSECTION OF I-74 AND CH 12, GO NORTH 3.7 MILES TO THE MARK ON THE LEFT. SAID MARK IS A CHISELED SQUARE ON TOP OF THE WEST HEADWALL ON AN ACROSS THE ROAD BOX CULVERT. ELEV. = 671.93
- B.M. 4688-2** CHISELED SQUARE FROM THE INTERSECTION OF I-74 AND CH 12, GO NORTH 4.0 MILES TO THE MARK ON THE RIGHT. SAID MARK IS A CHISELED SQUARE ON THE NORTHEAST CORNER OF THE SOUTHEAST WINGWALL OF STRUCTURE NUMBER 010-0221. STATION 2+92.61, RT. 21.85 FT. ELEV. = 672.58
- B.M. 4688-3** CHISELED SQUARE FROM THE INTERSECTION OF I-74 AND CH 12, GO NORTH 4.2 MILES TO THE MARK ON THE LEFT. SAID MARK IS THE TOP CENTER OF A CONCRETE RIGHT OF WAY MARKER. ELEV. = 673.26

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TIE POINTS & BENCHMARKS**  
**PROPOSED S.N. 010-0221**  
 F.A.P. 516/(C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY  
 SCALE: NOT TO SCALE DRAWN BY: B.B.P.  
 DATE: 05/15/06 CHECKED BY: G.A.E.

PLOT DATE = 7/6/2006  
 FILE NAME = G:\projects\050304 (v8)\0221\details.dgn  
 USER NAME = piersonbr



BM#4688-2: Chiseled square on top of southeast wingwall of bridge, 21.85' rt. of Station 2+92.61, Elev. 672.58

EXISTING STRUCTURE: S.N. 010-0221, originally constructed in 1971 as FAS 516, Section 241B-MFT at Station 3+56.00. Three simple spans @ 40'-40'-40', 121'-6 1/2" back-back abutments, 33'-0" o. to o. width, 21" PPC deck beams with 2" bituminous overlay, pile bent abutments and piers on precast concrete piles. Bituminous wearing surface was replaced in 2001. Existing superstructure shall be removed and replaced, using a road closure.

Existing aluminum bridge rail to be salvaged.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

Sheet No.	Description
1	Gen Plan, Gen Notes & Total Bill of Mat'l
2	Superstructure Details
3	Beam Details
4	Steel Bridge Rail, Type SM
5	Abutments & Piers

SHEET 1  
OF 5

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR	CHAMPAIGN	82	15

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

All epoxy grouted bars shall have a minimum embedment as shown on the plans and shall be placed according to Section 584 of the Standard Specifications. Cost of hole drilling and epoxy grouting is included with "Reinforcement Bars, Epoxy Coated".

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. The concrete cylinders at the north abutment slope shall be removed and replaced with riprap.

All construction joints shall be bonded. Attach new Name Plate to the backside of 8" rail element. Existing Name Plate is to be removed, cleaned and relocated adjacent to the new Name Plate. Cost included in the cost of Name Plates.

The minimum thickness of the concrete wearing surface shall be 5" and varies as required to adjust for the new profile grade and beam camber.

The existing aluminum bridge rail shall be removed and salvaged for used by IDOT District 5 Operations. The Contractor shall coordinate with the Engineer.

The existing expansion bearing pads at the piers contain asbestos. The Contractor shall take appropriate precautions to deal with the presence and disposal of asbestos on this project. (See Special Provisions)

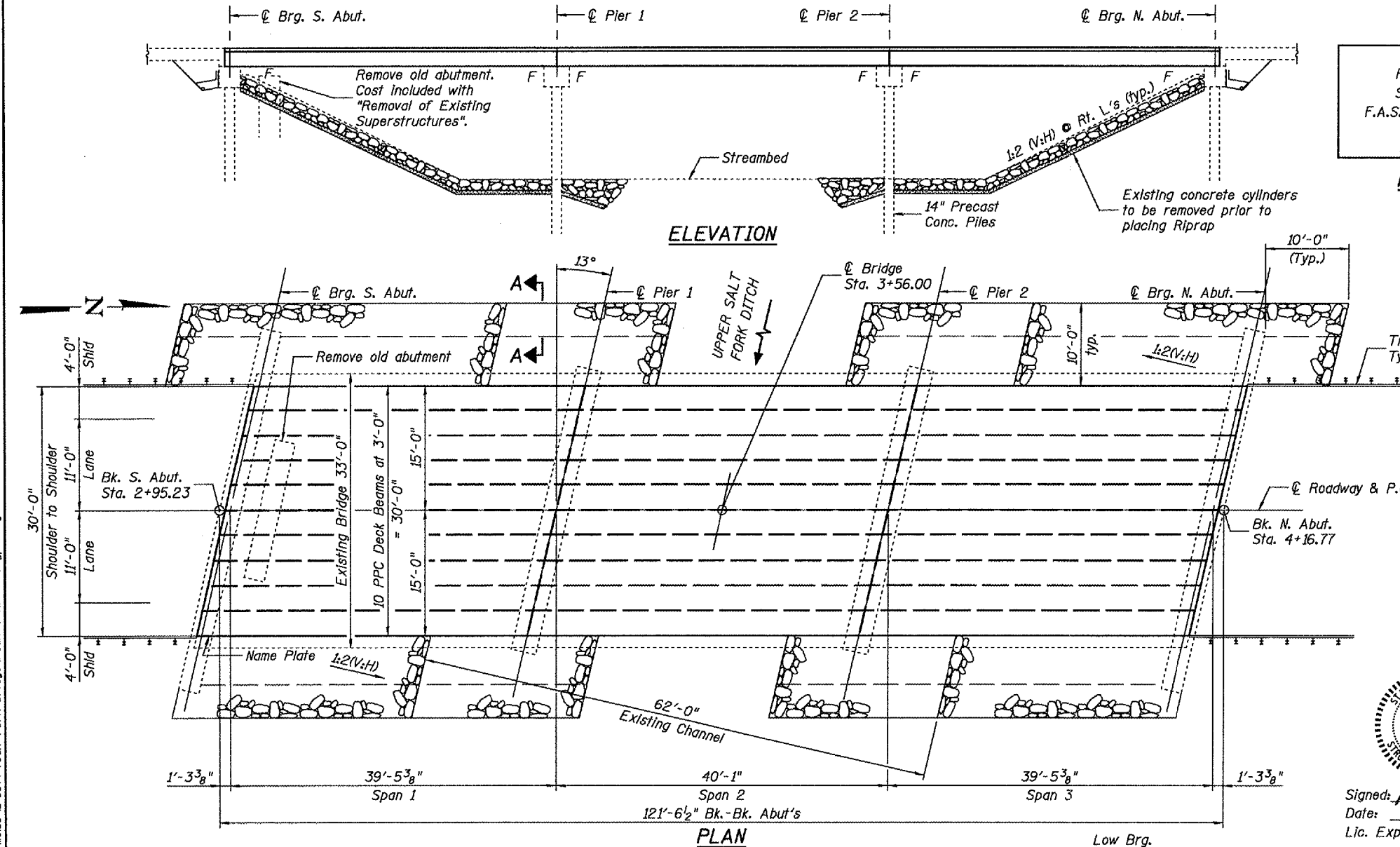
Repair of the substructure (Pier 2) shall be complete prior to placement of the new deck beams.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the Contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

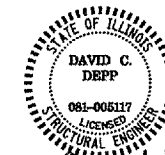
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu Yd	--	34	34
Stone Riprap, Class A4	Sq Yd	--	606	606
Filter Fabric	Sq Yd	--	606	606
Removal of Existing Superstructures	Each	1	--	1
Structure Excavation	Cu Yd	--	42	42
Concrete Structures	Cu Yd	--	1.2	1.2
Bridge Deck Grooving	Sq Yd	374	--	374
Protective Coat	Sq Yd	400	--	400
Precast Prestr. Conc. Deck Beams (21" Depth)	Sq Ft	3600	--	3600
Reinforcement Bars, Epoxy Coated	Pound	5040	180	5220
Steel Bridge Rail, Type SM	Foot	240	--	240
Name Plates	Each	1	--	1
Geocomposite Wall Drain	Sq Yd	--	24	24
Pipe Underdrains For Structures, 4"	Foot	--	106	106
Structural Repair of Concrete (Depth < 5")	Sq Ft	--	2	2
Concrete Wearing Surface, 5"	Sq Yd	400	--	400
Asbestos Bearing Pad Removal	Each	--	22	22



STATION 3+56.00  
RE-BUILT BY  
STATE OF ILLINOIS  
F.A.S. RTE. 516 SEC. 241BR  
LOADING HS20  
STR. NO. 010-0221

NAME PLATE  
See Std. 515001



Signed: David C. Depp  
Date: 7-18-2006  
Lic. Expires: 11-30-2006

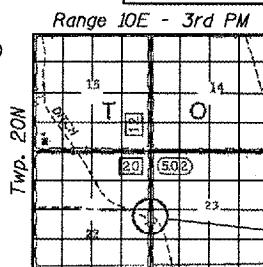
LOADING HS20-44  
No allowance for future wearing surface.

DESIGN SPECIFICATIONS  
2002 AASHTO

DESIGN STRESSES  
FIELD UNITS

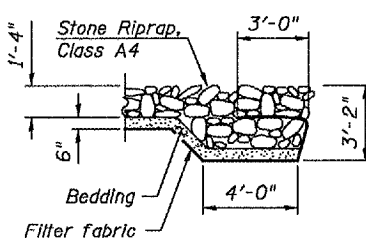
f'c = 3,500 psi  
f'c = 5,000 psi (Concrete Wearing Surface)  
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS  
f'c = 5,000 psi  
f'cl = 4,000 psi  
f's = 270,000 psi (1/2" low lax strands)  
f'si = 201,960 psi (1/2" low lax strands)

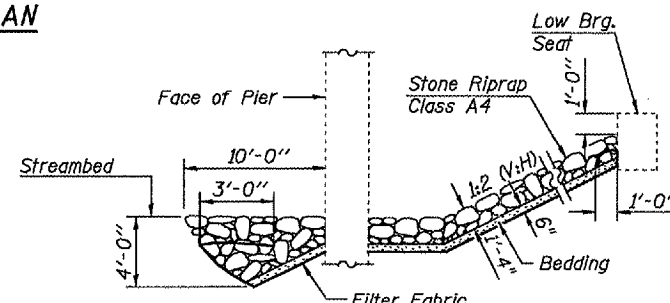


LOCATION SKETCH

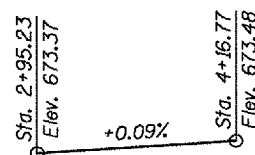
GENERAL PLAN  
FAS 516 (CH 12) OVER  
UPPER SALT FORK DITCH  
FAS ROUTE 516 SECTION 241BR  
CHAMPAIGN COUNTY  
STATION 3+56.00  
STRUCTURE NO. 010-0221



SECTION A-A



STONE RIPRAP ANCHOR DETAIL



PROFILE GRADE  
(Along Roadway)

**Johnson, Depp & Quisenberry**  
CONSULTING ENGINEERS  
Springfield, Illinois

DESIGNED: CDB	DRAWN: SJS/P. Ray
CHECKED: DCD	CHECKED: CDB/DCD

FILE: J:\D00\10138 IL-055\W\Salt Fork Bridge\Y-SaltFork\010-0221.dgn

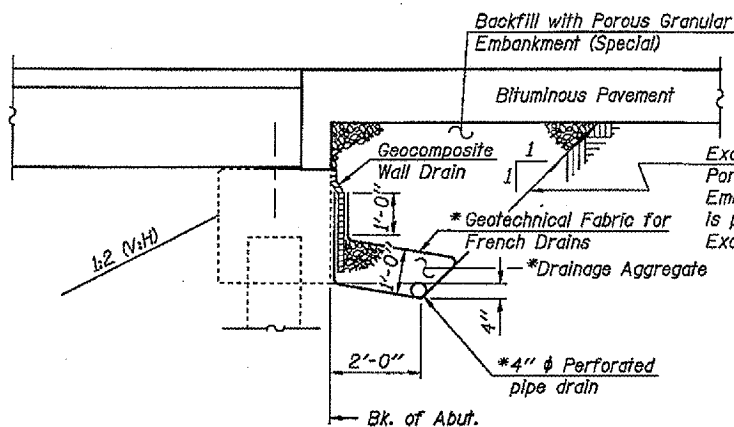
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DATE: 07/18/2006 - 12:43:38

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET 2  
OF 5

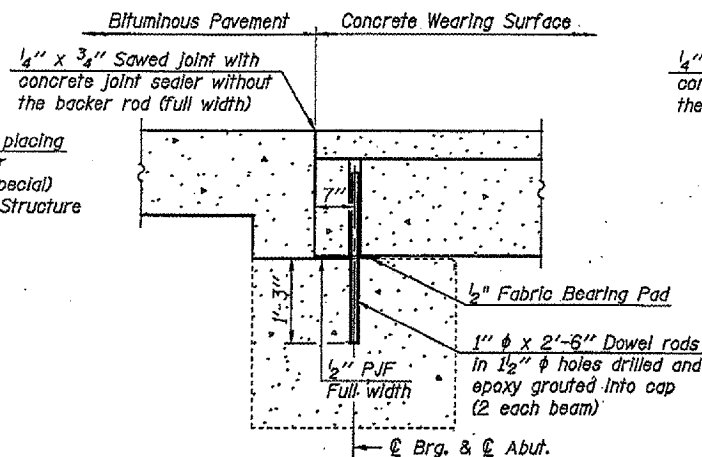
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516	241BR	CHAMPAIGN	82	16
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. T0359		



**SECTION THRU ABUTMENT**  
(Horiz. dim. @ Rt. L's)

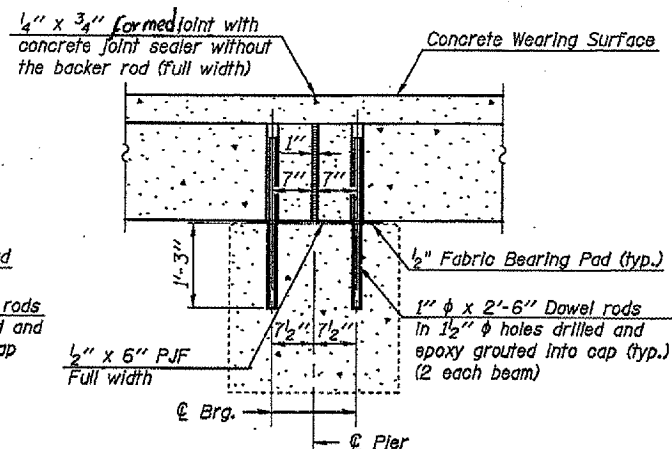
\* Included in the cost of Pipe Underdrains for Structures.

**Note:**  
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110J).



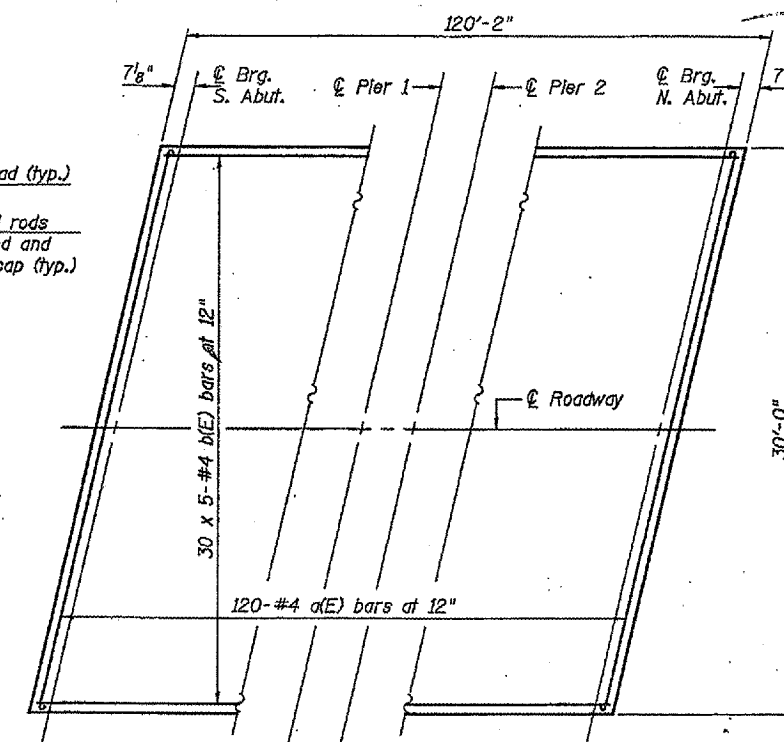
**SECTION THRU ABUTMENT**

**Notes:**  
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.  
All horizontal dimensions are at right angles to beam ends. See sheet 3 of 5 for bearing pad details.

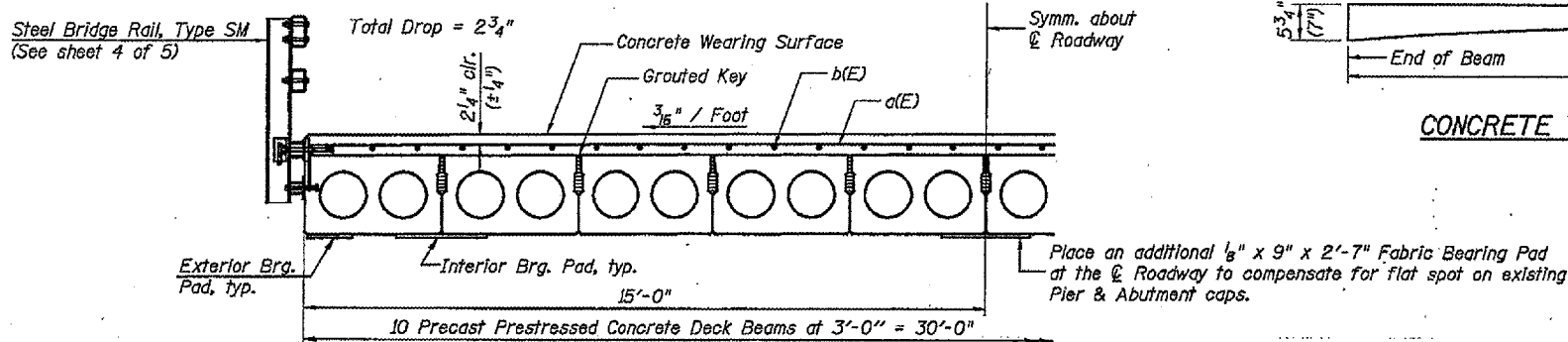


**SECTION THRU FIXED PIER**

1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.



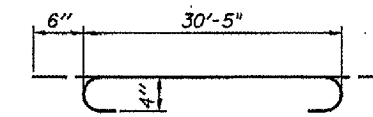
**PLAN - CONCRETE WEARING SURFACE**



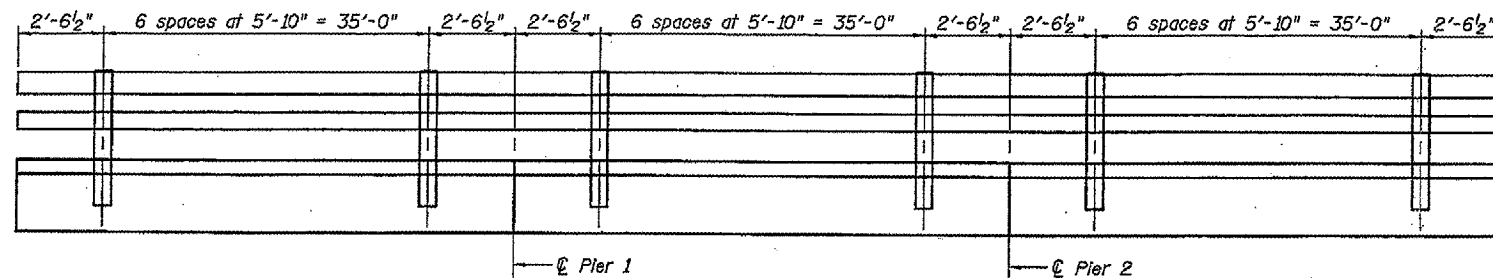
**HALF CROSS SECTION**

**CONCRETE WEARING SURFACE PROFILE**

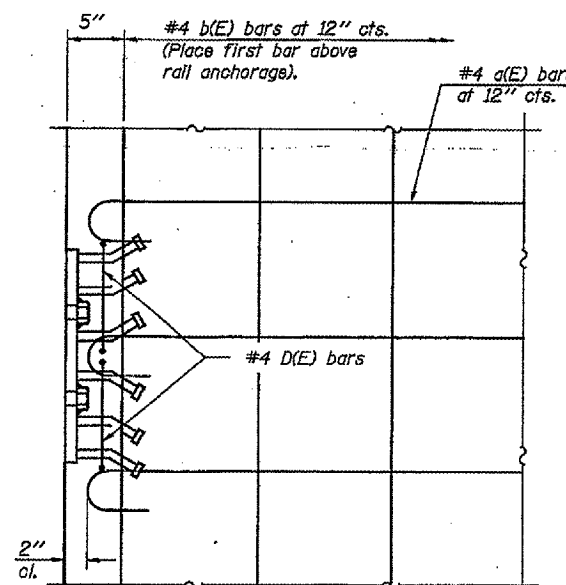
**MIN. BAR LAP**  
#4 = 1'-4"



**BAR a(E)**



**RAIL POST SPACING**



**PLAN AT RAIL POST ANCHOR**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	120	#4	31'-5"	
b(E)	150	#4	25'-1"	—
Reinforcement Bars, Epoxy Coated			Pound	5040
Concrete Wearing Surface, 5"			Sq. Yd.	400

Reinforcement bars designated (E) shall be epoxy coated.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

**SUPERSTRUCTURE DETAILS**

FAS 516 (CH 12) OVER  
UPPER SALT FORK DITCH  
FAS ROUTE 516 SECTION 241BR  
CHAMPAIGN COUNTY  
STATION 3+56.00  
STRUCTURE NO. 010-0221

**JD Johnson, Depp & Qulsberry**  
CONSULTING ENGINEERS  
Springfield, Illinois

DESIGNED: CDB	DRAWN: SJS
CHECKED: DCD	CHECKED: CDB/DCD

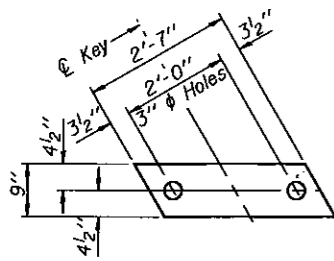
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DATE: 07/18/2006 - 12:43:59



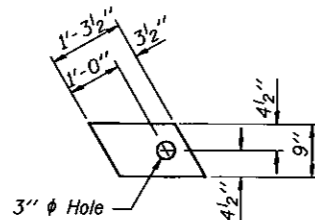
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET 3  
OF 5

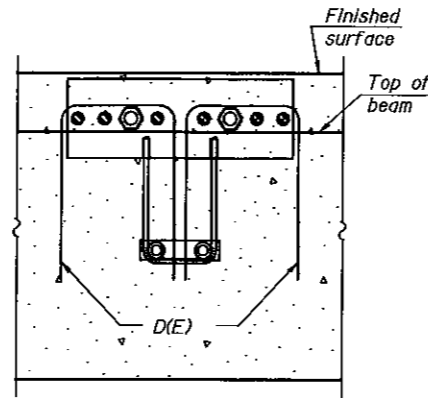
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516	241BR	CHAMPAIGN	82	17
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
			CONTRACT NO. 70359	



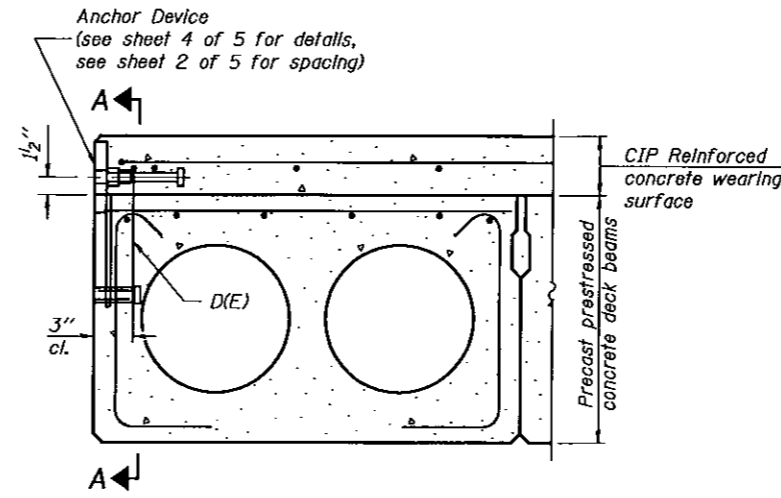
FABRIC BEARING PAD  
(Interior)



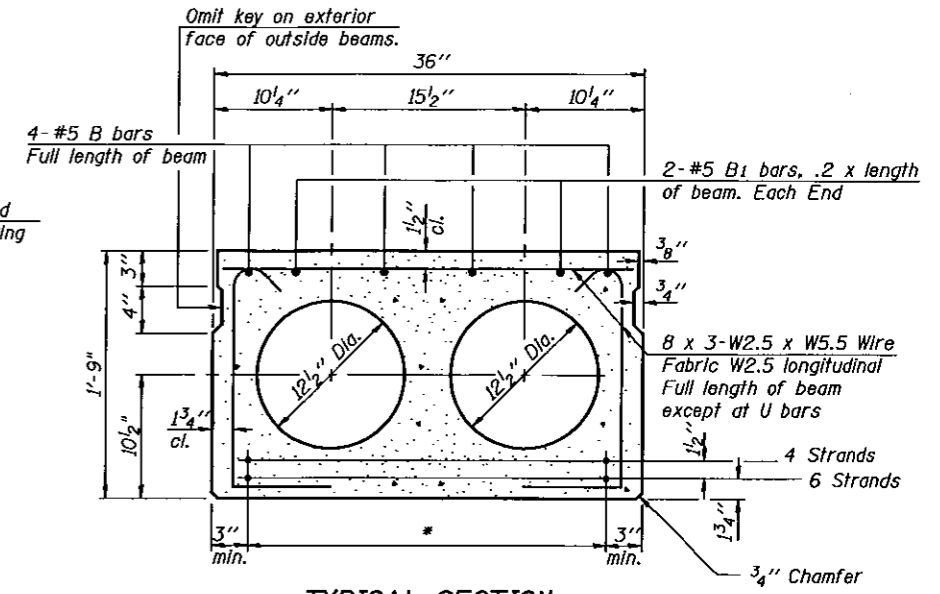
FABRIC BEARING PAD  
(Exterior)



SECTION A-A



CROSS SECTION AT EXTERIOR BEAM



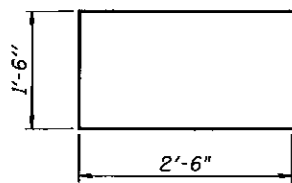
TYPICAL SECTION  
10-1/2"  $\phi$  Strands, Each Strand Stressed to 30,900 Lbs.  
6-Strands 1 3/4" up, 4-Strands 3 1/4" up

Notes:  
The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.

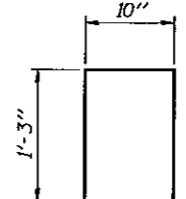
\* TRANSVERSE STRAND PLACEMENT GUIDELINES

1. Place strands symmetrically about centerline of beam.
2. The minimum distance from center to center of strands in all directions shall be 2".
3. The minimum clearance from strand to dowel hole shall be 1/2".
4. The minimum clearance from strand to void shall be 1/2".

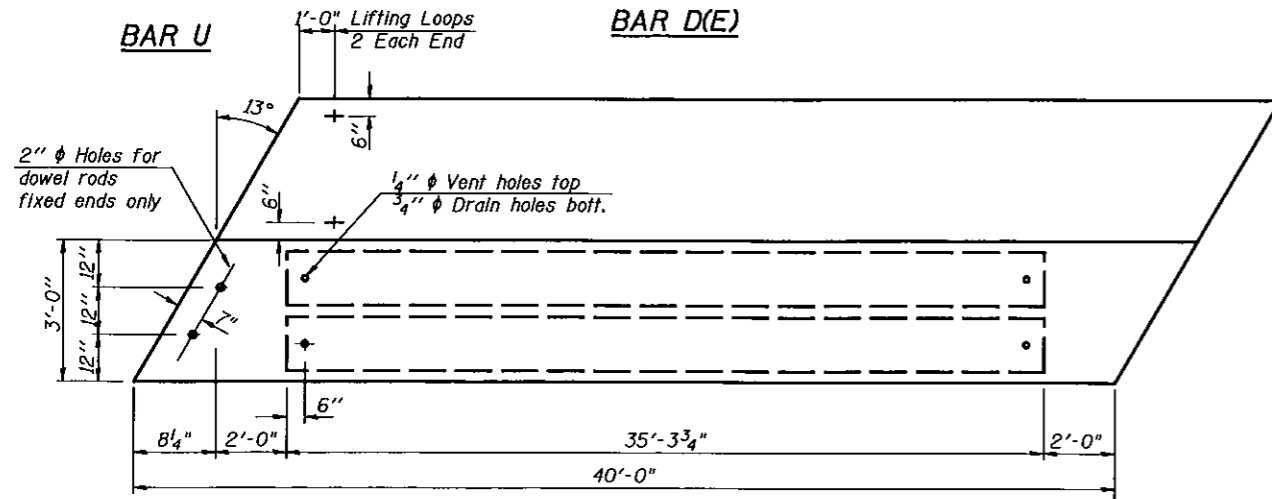
Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



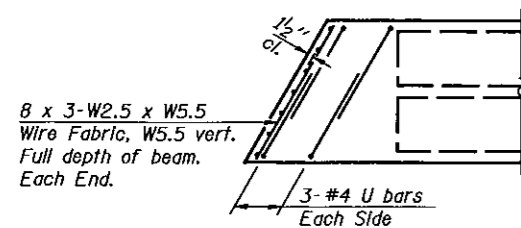
BAR U



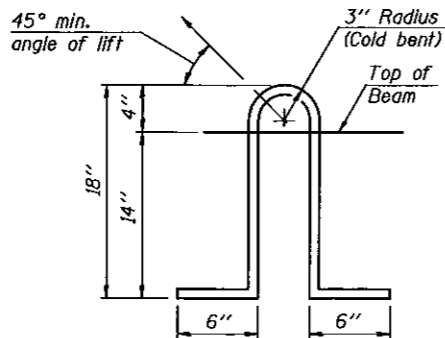
BAR D(E)



PLAN



END PLAN



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - 1/2"  $\phi$  -270 ksi strands, as shown. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'cl, shall be 4,000 p.s.i. The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: CDB	DRAWN: SJS
CHECKED: DCD	CHECKED: CDB/DCD

PD-3-LA

10-22-04

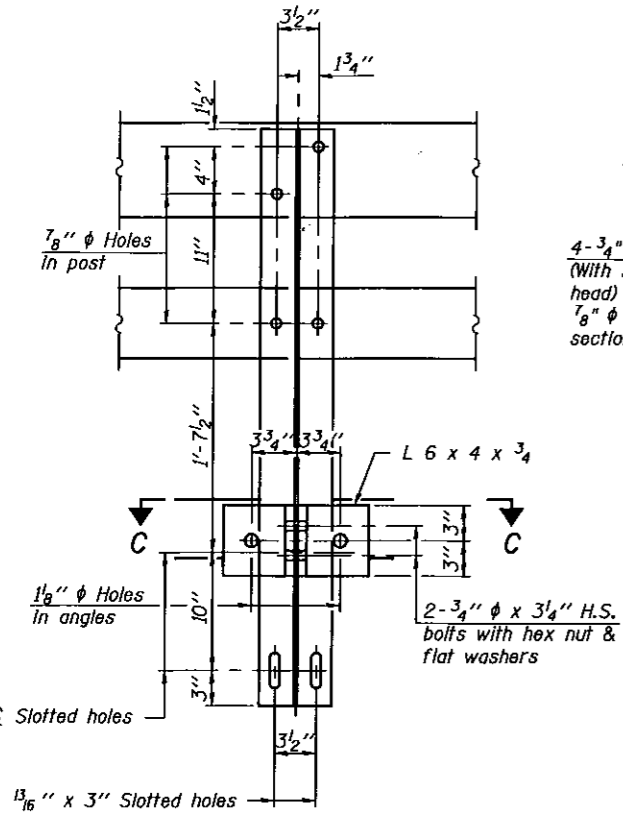
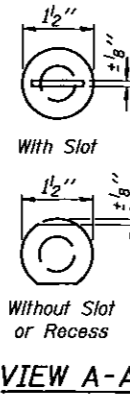
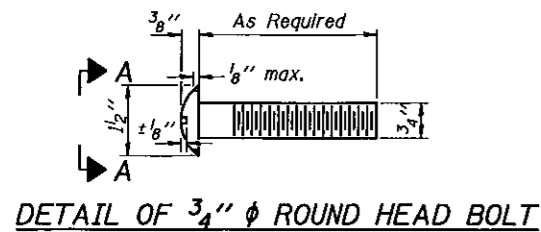
BEAM DETAILS  
FAS 516 (CH 12) OVER  
UPPER SALT FORK DITCH  
FAS ROUTE 516 SECTION 241BR  
CHAMPAIGN COUNTY  
STATION 3+56.00  
STRUCTURE NO. 010-0221

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 USER: P. Ray  
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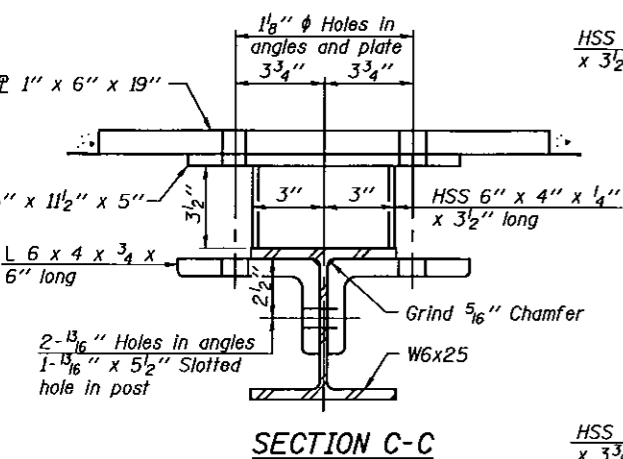
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET 4  
OF 5

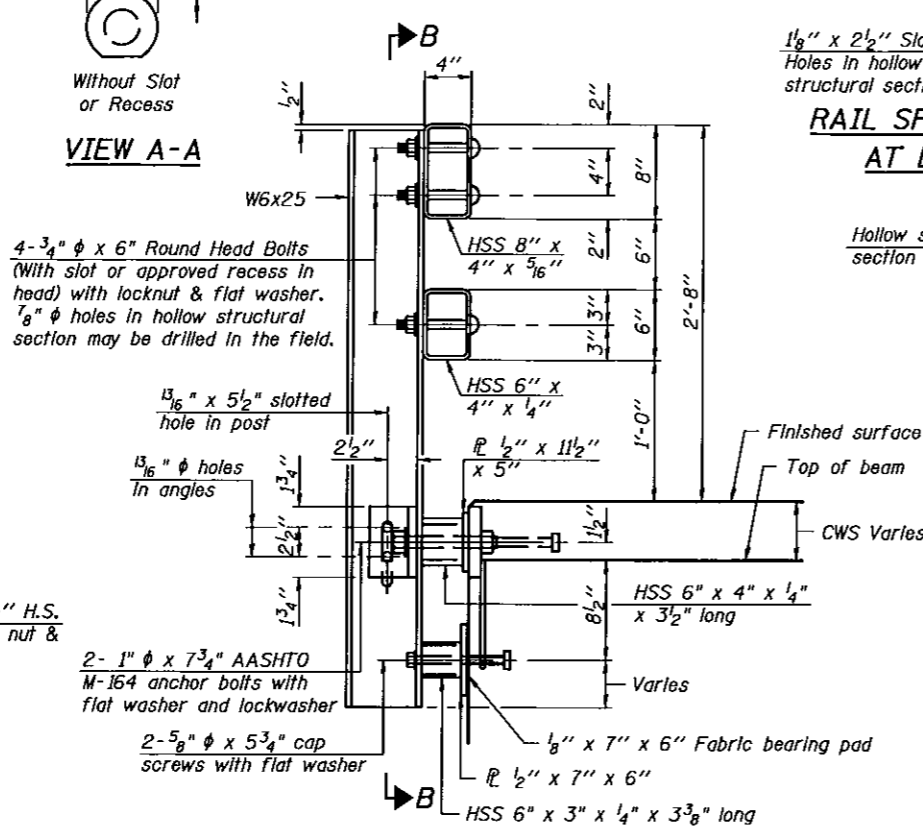
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516	241BR	CHAMPAIGN	82	18
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
			CONTRACT NO. 70359	



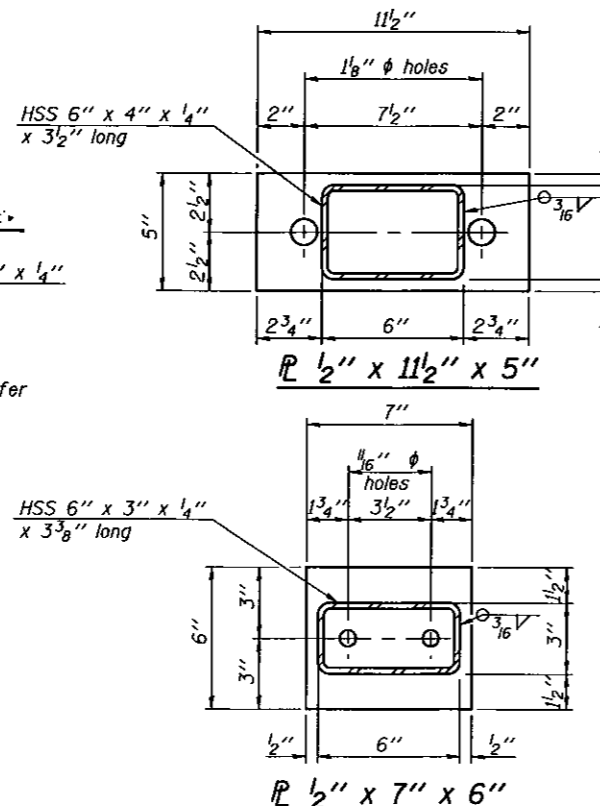
SECTION B-B



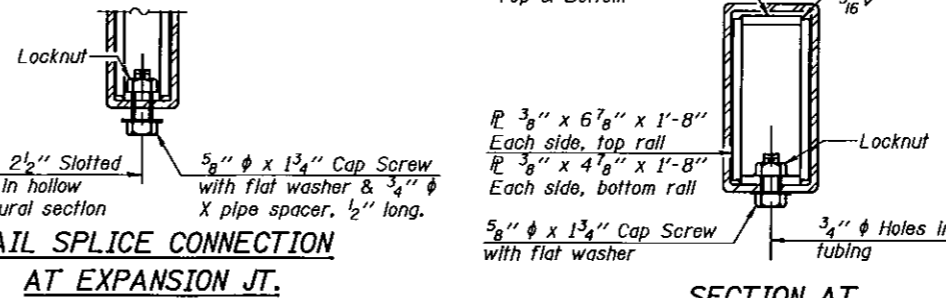
SECTION C-C



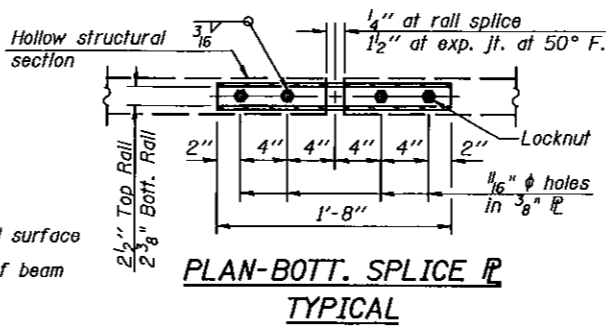
SECTION AT RAIL POST



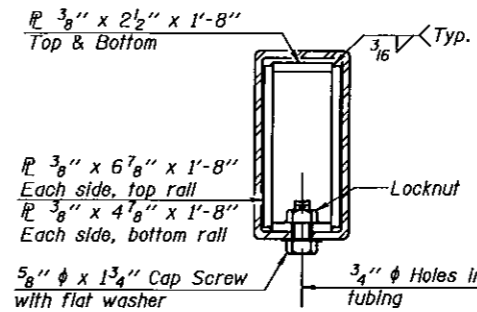
ANCHOR DEVICE



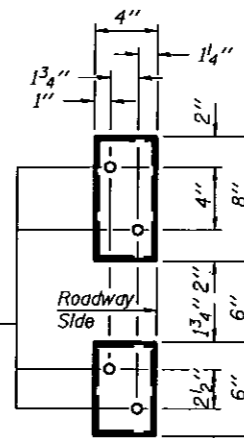
RAIL SPLICE CONNECTION  
AT EXPANSION JT.



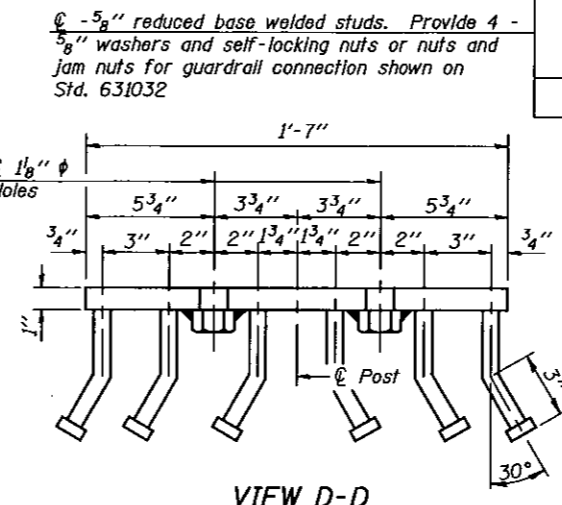
PLAN-BOTT. SPLICE P  
TYPICAL



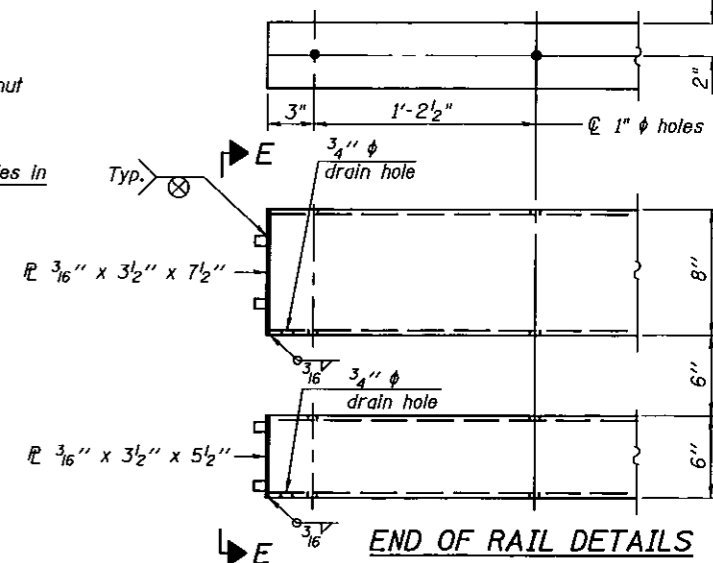
SECTION AT  
RAIL SPLICE



VIEW E-E



VIEW D-D



END OF RAIL DETAILS

NOTES

- Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.
- All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.
- Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.
- All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.
- All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.
- Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail, Type SM.
- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.
- The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(F)(2) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	240

TYPE SM

STEEL BRIDGE RAIL SIDE MOUNTED  
WITH CONCRETE WEARING SURFACE

FAS 516 (CH 12) OVER  
UPPER SALT FORK DITCH  
FAS ROUTE 516 SECTION 241BR  
CHAMPAIGN COUNTY  
STATION 3+56.00  
STRUCTURE NO. 010-0221

\* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

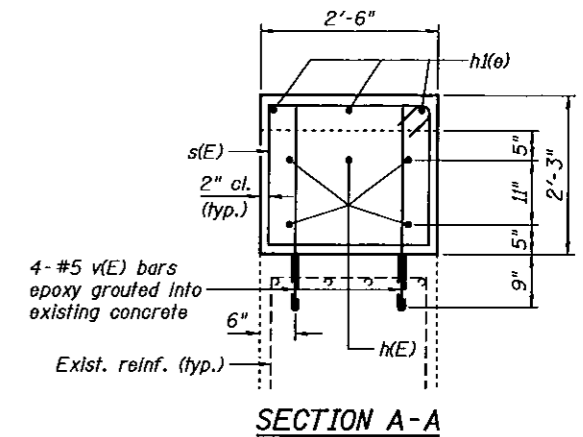
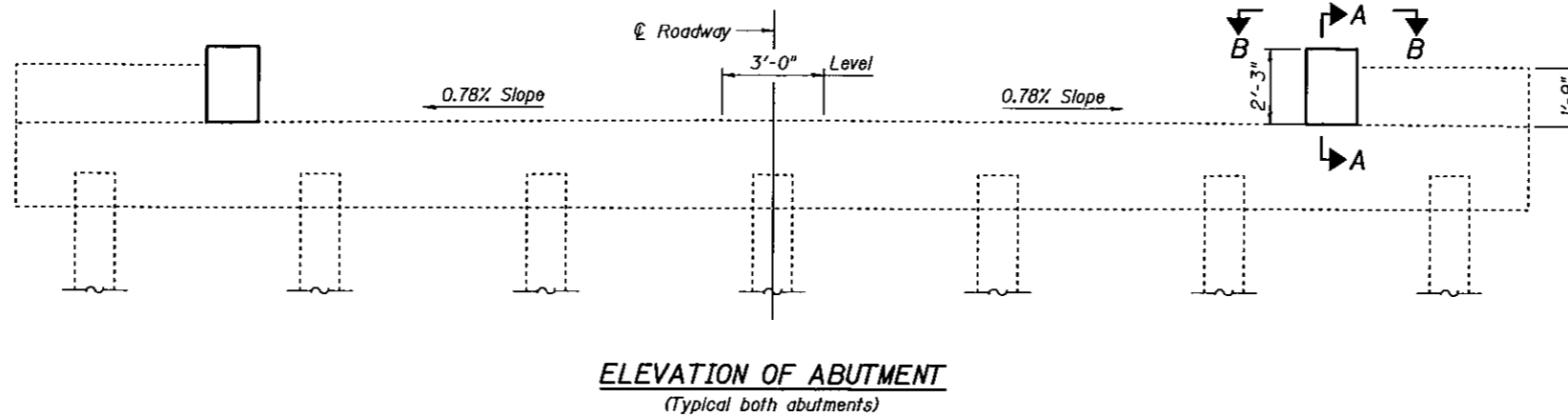
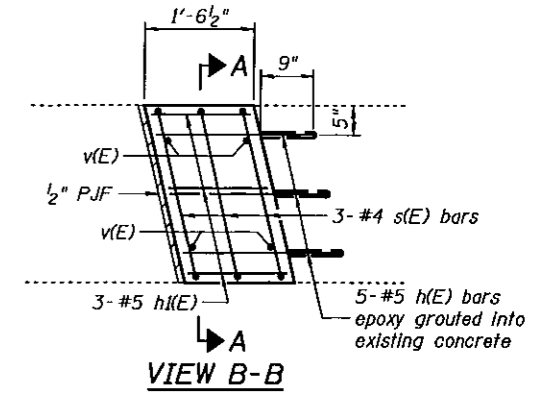
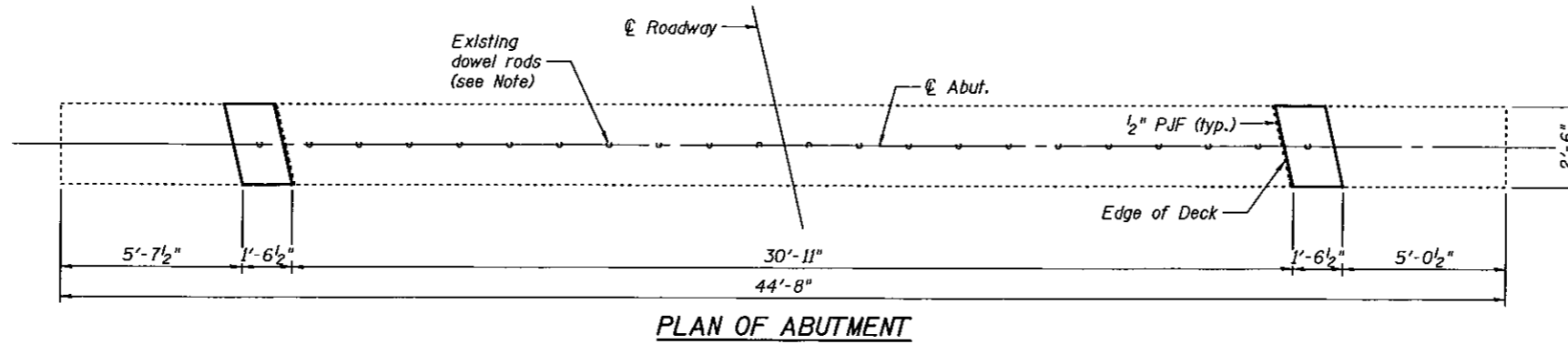
**JD Johnson, Depp & Quisenberry**  
CONSULTING ENGINEERS  
Springfield, Illinois

DESIGNED: CDB	DRAWN: SJS
CHECKED: DCD	CHECKED: CDB/DCD

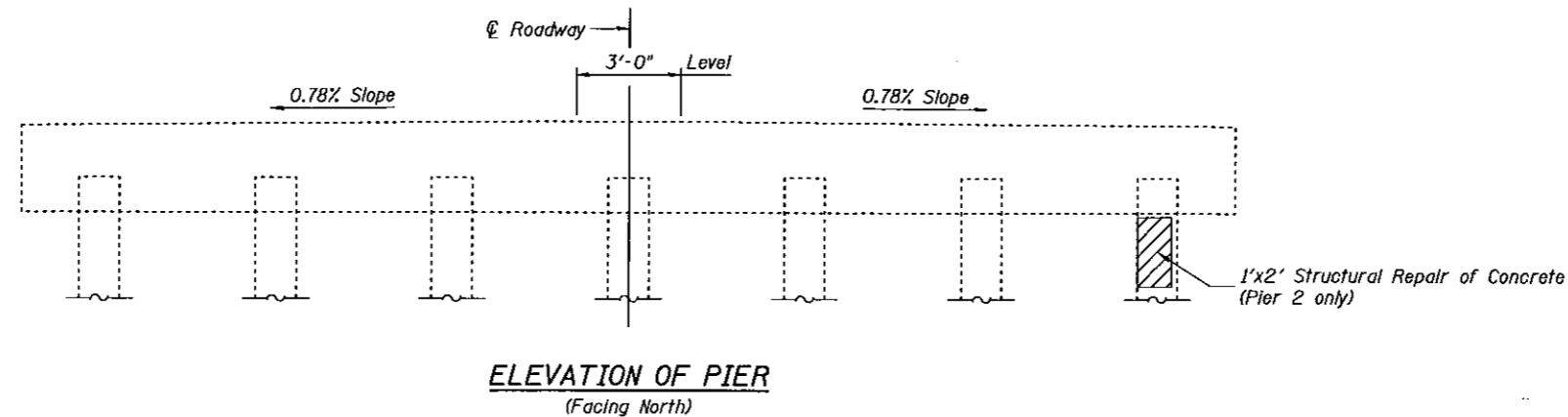
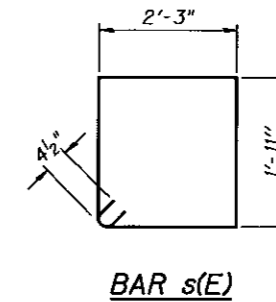
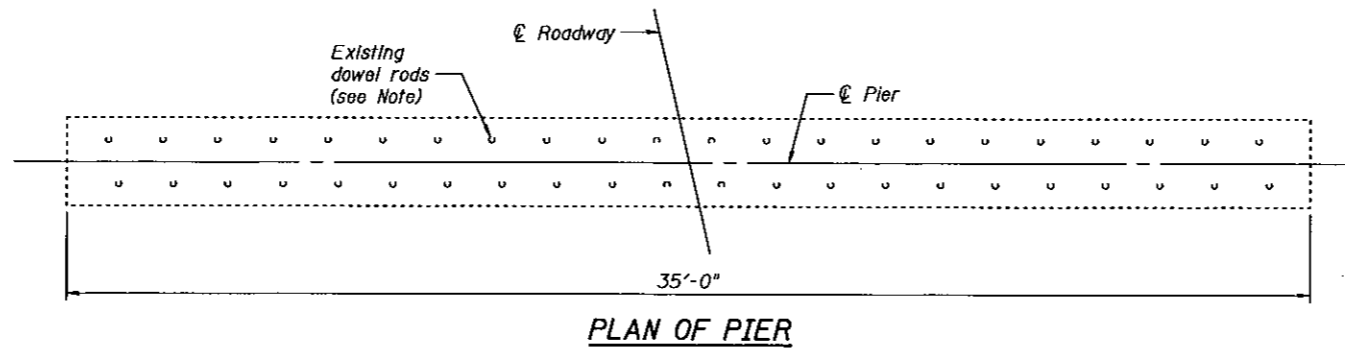
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET 5  
OF 5

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR	CHAMPAIGN	82	19
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 70359		



Notes:  
Concrete at Abutments to be poured after new beams are in place.  
Burn existing dowel rods flush with existing concrete, grind smooth and seal with epoxy on each substructure unit. Cost is included with Removal of Existing Superstructures.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#5	2'-1"	—
h(E)	12	#5	1'-2"	—
s(E)	12	#4	9'-1"	□
v(E)	16	#5	2'-10"	—
Reinforcement Bars, Epoxy Coated			Pound	180
Concrete Structures			Cu. Yd.	1.2
Structural Repair of Concrete (Depth = < 5")			Sq. Ft.	2

ABUTMENTS & PIERS  
FAS 516 (CH 12) OVER  
UPPER SALT FORK DITCH  
FAS ROUTE 516 SECTION 241BR  
CHAMPAIGN COUNTY  
STATION 3+56.00  
STRUCTURE NO. 010-0221

**Johnson, Depp & Quisenberry**  
CONSULTING ENGINEERS  
Springfield, Illinois

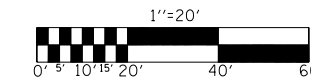
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	20
STA. 0+00.00		TO STA. 7+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# EROSION CONTROL PLAN

PROPOSED S.N. 010-0221

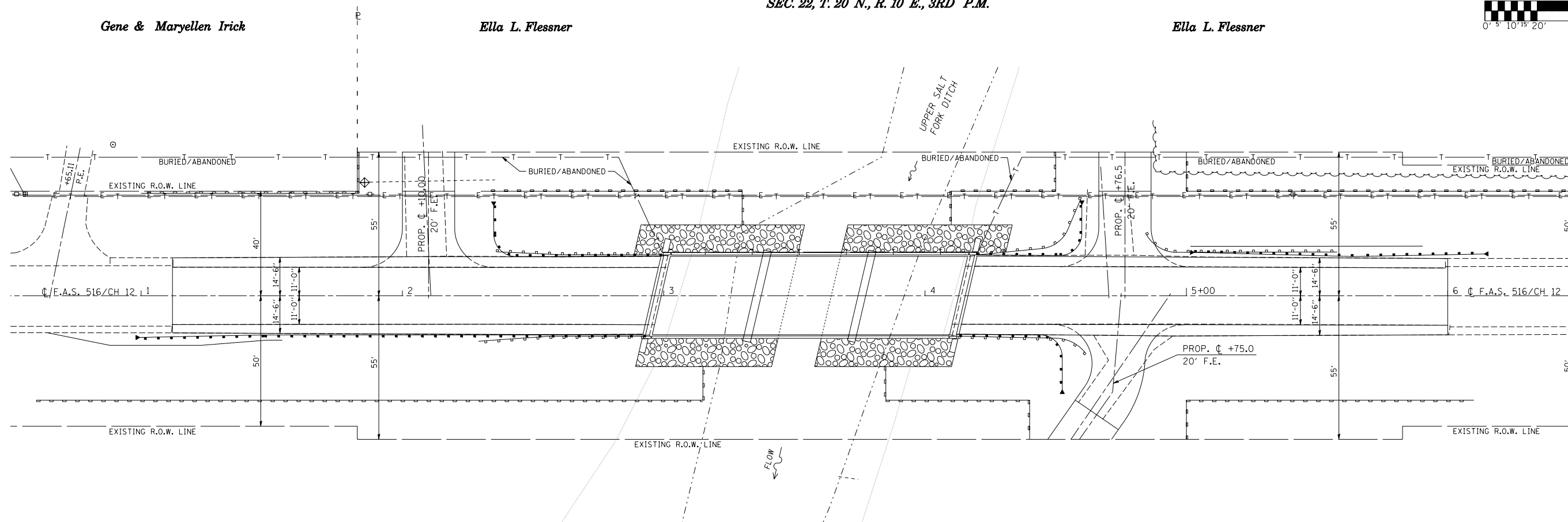


Gene & Maryellen Irick

Ella L. Flessner

SEC. 22, T. 20 N., R. 10 E., 3RD P.M.

Ella L. Flessner



Gary & Nancy Olson

Gary & Nancy Olson

SEC. 23, T. 20 N., R. 10 E., 3RD P.M.

### 28000500 INLET AND PIPE PROTECTION

STATION	QUANTITY (EACH)
LT. 1+88.00	1.0
<b>TOTAL</b>	<b>= 1.0 EACH</b>

### 28000400 PERIMETER EROSION BARRIER

LOCATION (QUADRANT)	QUANTITY (FOOT)
SOUTHWEST	213.0
SOUTHEAST	270.0
NORTHWEST	235.0
NORTHEAST	210.0
<b>TOTAL</b>	<b>= 928.0 FOOT</b>

### SEEDING, CLASS 2

STATION	TO	STATION	25000200 SEEDING (SQ FT)	25000400 NITROGEN (90.0 LB/ACRE)	25000500 PHOSPHORUS (90.0 LB/ACRE)	25000600 POTASSIUM (90.0 LB/ACRE)	25100115 MULCH (SQ FT)
RT. 0+63.87	TO	2+90.10	2,972.4	6.1	6.1	6.1	2,972.4
RT. 4+12.50	TO	6+10.00	4,389.1	9.1	9.1	9.1	4,389.1
LT. 1+12.00	TO	3+00.00	2,883.6	6.0	6.0	6.0	2,883.6
LT. 4+22.30	TO	6+46.73	4,609.4	9.5	9.5	9.5	4,609.4
<b>TOTAL</b>			<b>= 14,854.5 SQ FT</b>	<b>30.7 LB</b>	<b>30.7 LB</b>	<b>30.7 LB</b>	<b>14,854.5 SQ FT</b>
<b>USE</b>			<b>= 0.4 ACRE</b>	<b>31.0 LB</b>	<b>31.0 LB</b>	<b>31.0 LB</b>	<b>0.4 ACRE</b>

### 25000350 SEEDING, CLASS 7

(USE THE SAME AREA AS SEEDING, CLASS 2)




**TOTAL = 14,854.5 SQ FT**  
**USE = 0.4 ACRE**

### 28000250 TEMPORARY EROSION CONTROL SEEDING

APPLICATION RATE = 100 LB/ACRE  
 (USE THE SAME AREA AS SEEDING, CLASS 2)

**TOTAL = 34.0 LB**

### LEGEND

-  PERIMETER EROSION BARRIER
-  STONE RIPRAP, CLASS A-4
-  INLET AND PIPE PROTECTION

### SEEDING PAY LIMITS:

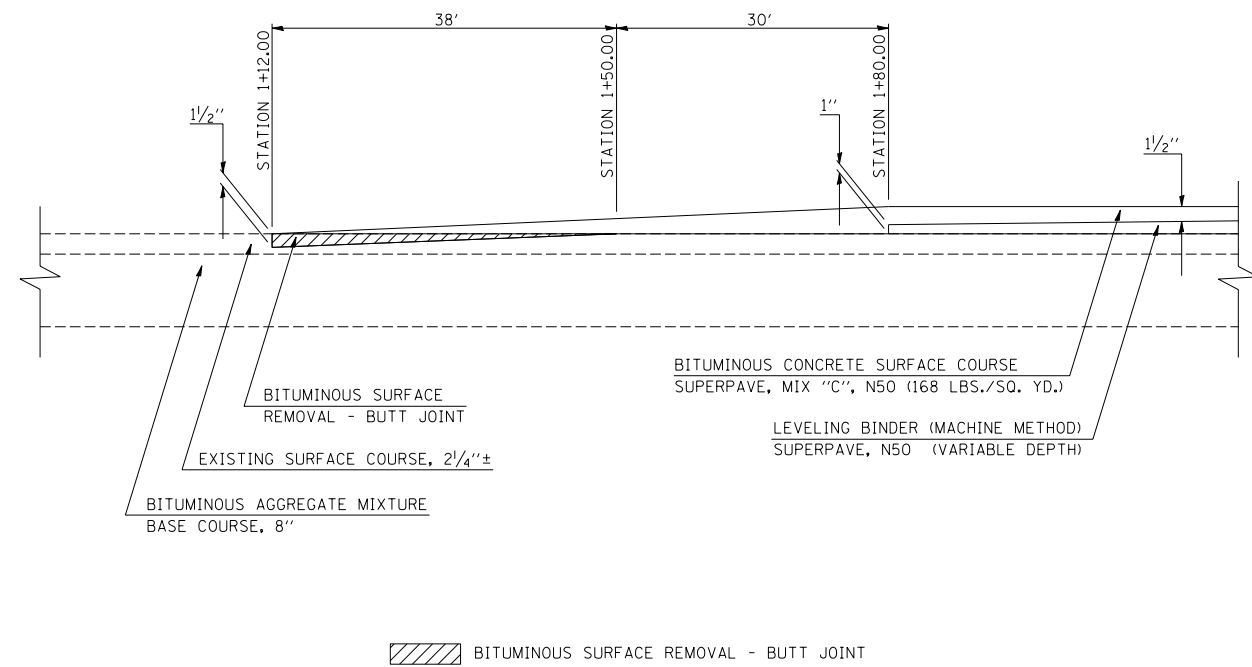
SEEDING LIMITS SHALL BE DEFINED AS AREAS OF EARTH SLOPES WHICH ARE DISTURBED AS SHOWN ON THE STATION CROSS SECTIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL PLAN**  
**PROPOSED S.N. 010-0221**  
 F.A.P. 516/(C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY

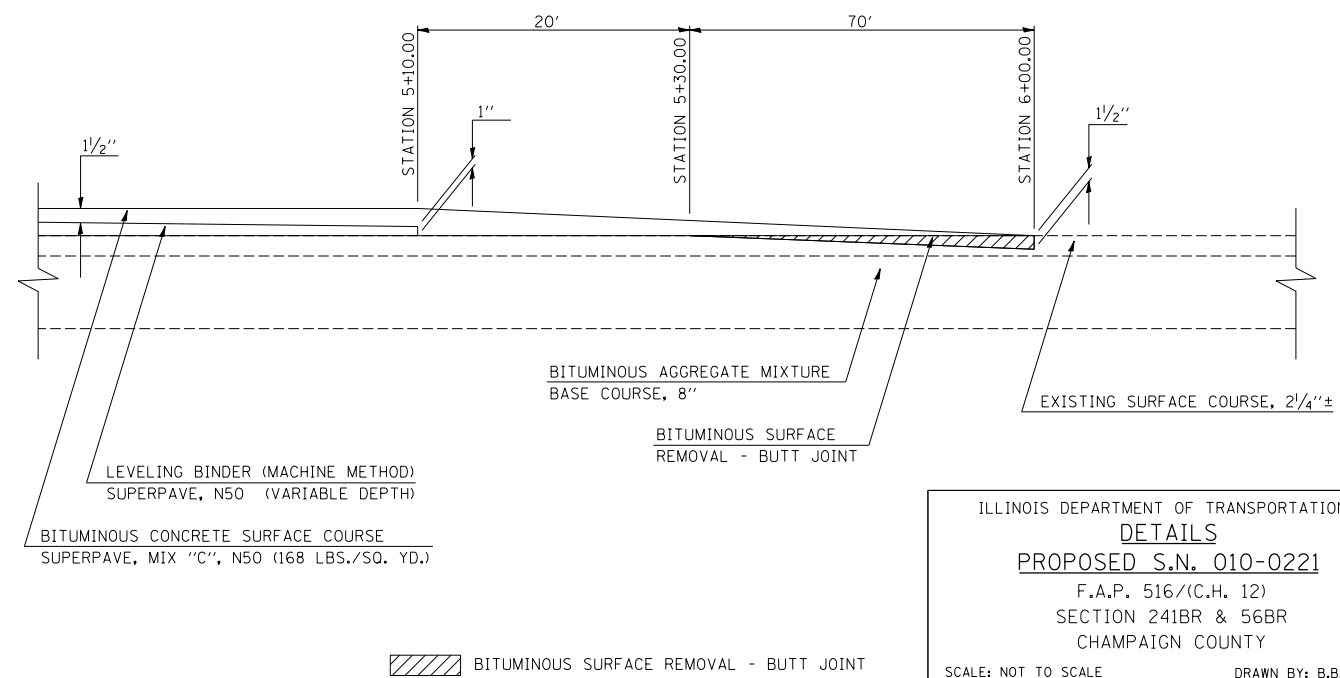
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### BUTT JOINT DETAIL AT PROPOSED S.N. 010-0221 STATION 1+12.00



### BUTT JOINT DETAIL AT PROPOSED S.N. 010-0221 STATION 6+00.00



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAILS**  
**PROPOSED S.N. 010-0221**  
 F.A.P. 516/(C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY

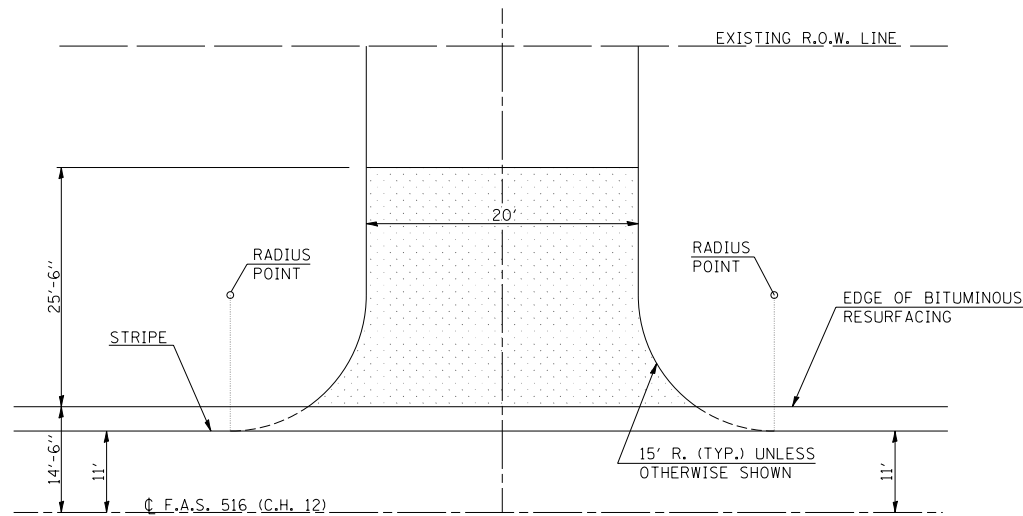
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DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.

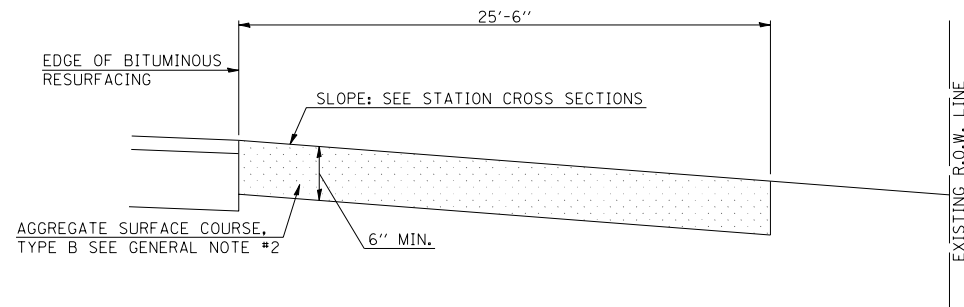
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TYPICAL DETAIL OF RURAL FIELD ENTRANCES

PROPOSED S.N. 010-0221  
 LT. STATION 2+10.00 & LT. STATION 4+76.50



PLAN



PROFILE

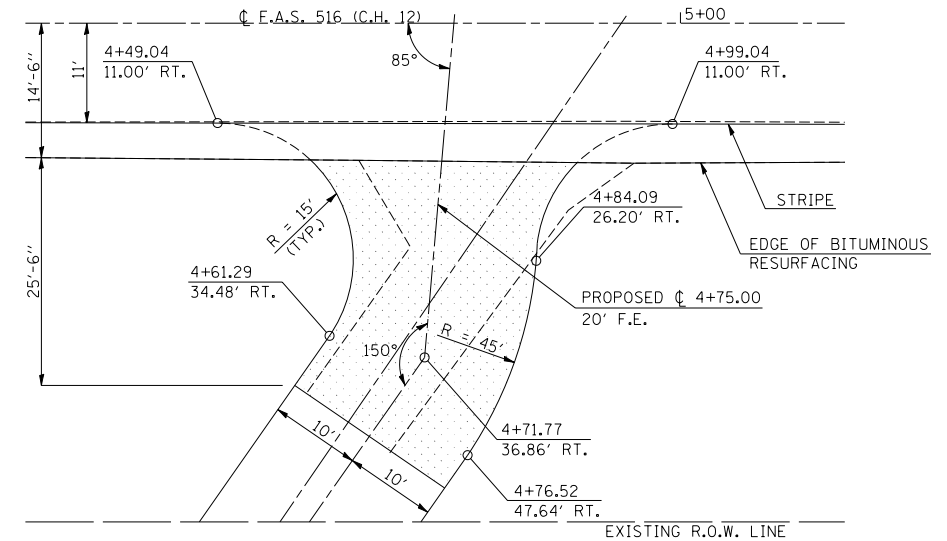
## GENERAL NOTES

1. THE PROPOSED SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 402 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE SURFACE COURSE, TYPE B OF THE THICKNESS SPECIFIED IN THE PLANS, (6" MIN.) SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCE.
3. ANY NECESSARY WORK BEHIND THE EDGE OF SHOULDER SHALL BE AS SHOWN IN THE PLANS AND/OR DIRECTED BY THE ENGINEER. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE, TYPE B.
4. ENTRANCE SIDESLOPES SHALL BE CONSTRUCTED TO 1:4 SLOPES, UNLESS OTHERWISE SHOWN.

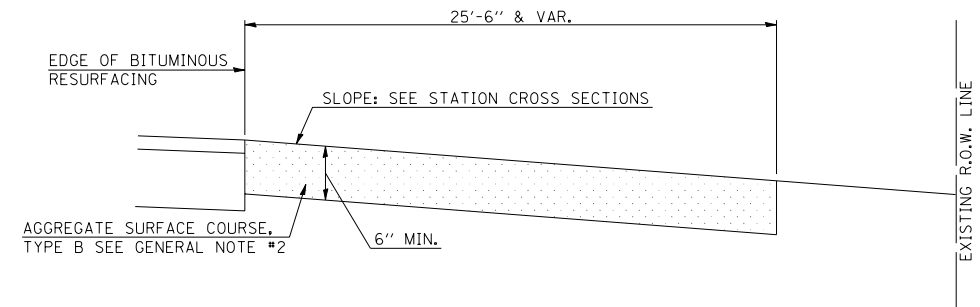
PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\050304 (v8)\0221details.dgn  
 USER NAME = piersonbr

# DETAIL OF RURAL FIELD ENTRANCE

PROPOSED S.N. 010-0221  
 RT. STATION 4+75.00



PLAN



PROFILE

## GENERAL NOTES

1. THE PROPOSED SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 402 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE SURFACE COURSE, TYPE B OF THE THICKNESS SPECIFIED IN THE PLANS, (6" MIN.) SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCE.
3. ANY NECESSARY WORK BEHIND THE EDGE OF SHOULDER SHALL BE AS SHOWN IN THE PLANS AND/OR DIRECTED BY THE ENGINEER. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE, TYPE B.
4. ENTRANCE SIDESLOPES SHALL BE CONSTRUCTED TO 1:4 SLOPES, UNLESS OTHERWISE SHOWN.

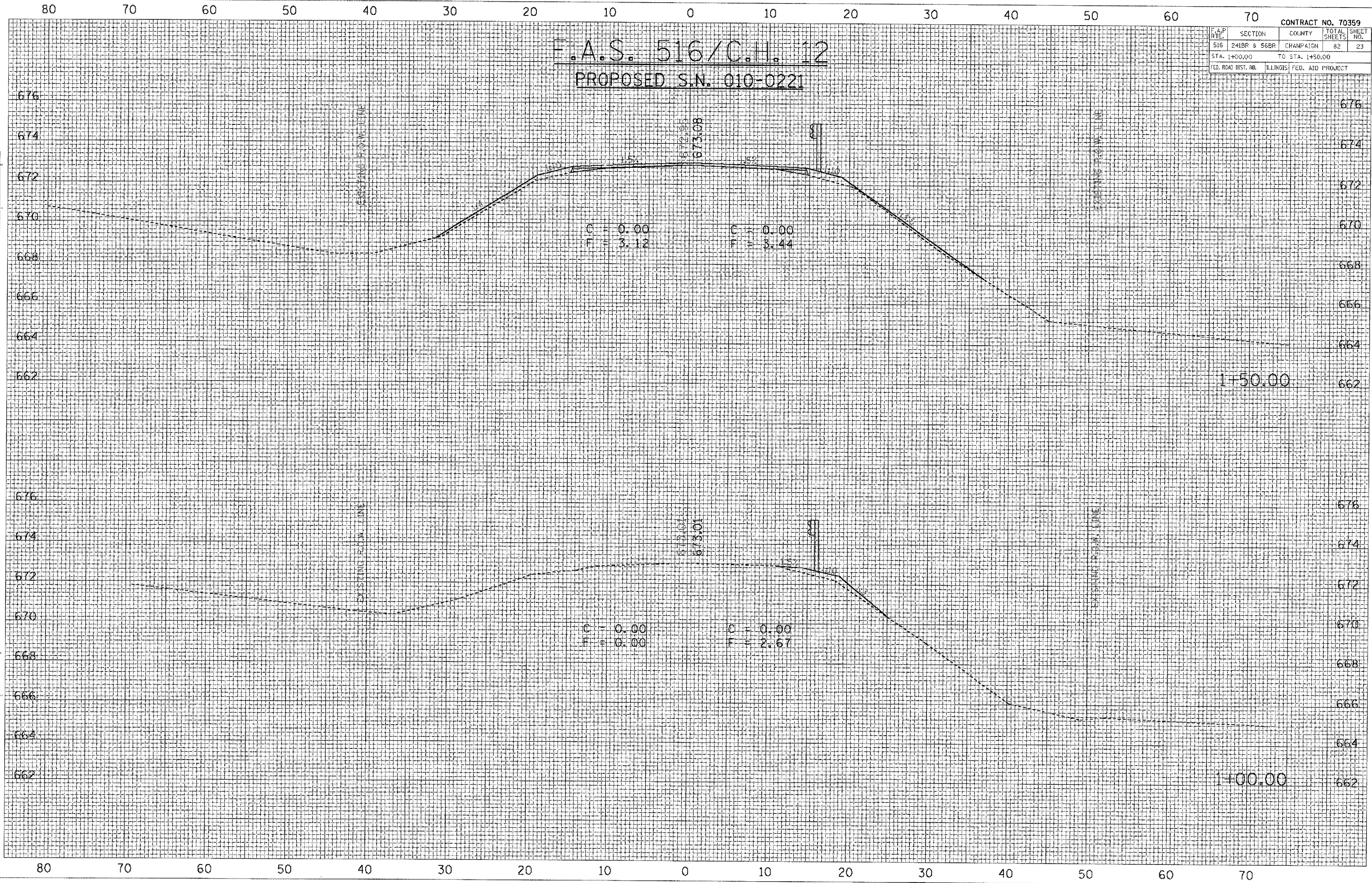
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAILS**  
 PROPOSED S.N. 010-0221  
 F.A.P. 516/(C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY

SCALE: NOT TO SCALE  
 DATE: 05/15/06  
 DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.



F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516		241BR & 56BR	CHAMPAIGN	82	23
STA. 1+00.00		TO STA. 1+50.00			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

F.A.S. 516/C.H. 12  
PROPOSED S.N. 010-0221



DATE  
BY  
CHECKED  
SURVEY  
NOTE BOOK  
AREAS  
MISCELLANEOUS

DATE  
BY  
CHECKED  
SURVEY  
NOTE BOOK  
AREAS  
MISCELLANEOUS

PLOT DATE = 7/6/2006  
DRAWN BY = gary...  
CHECKED BY = ...  
USER NAME = param...



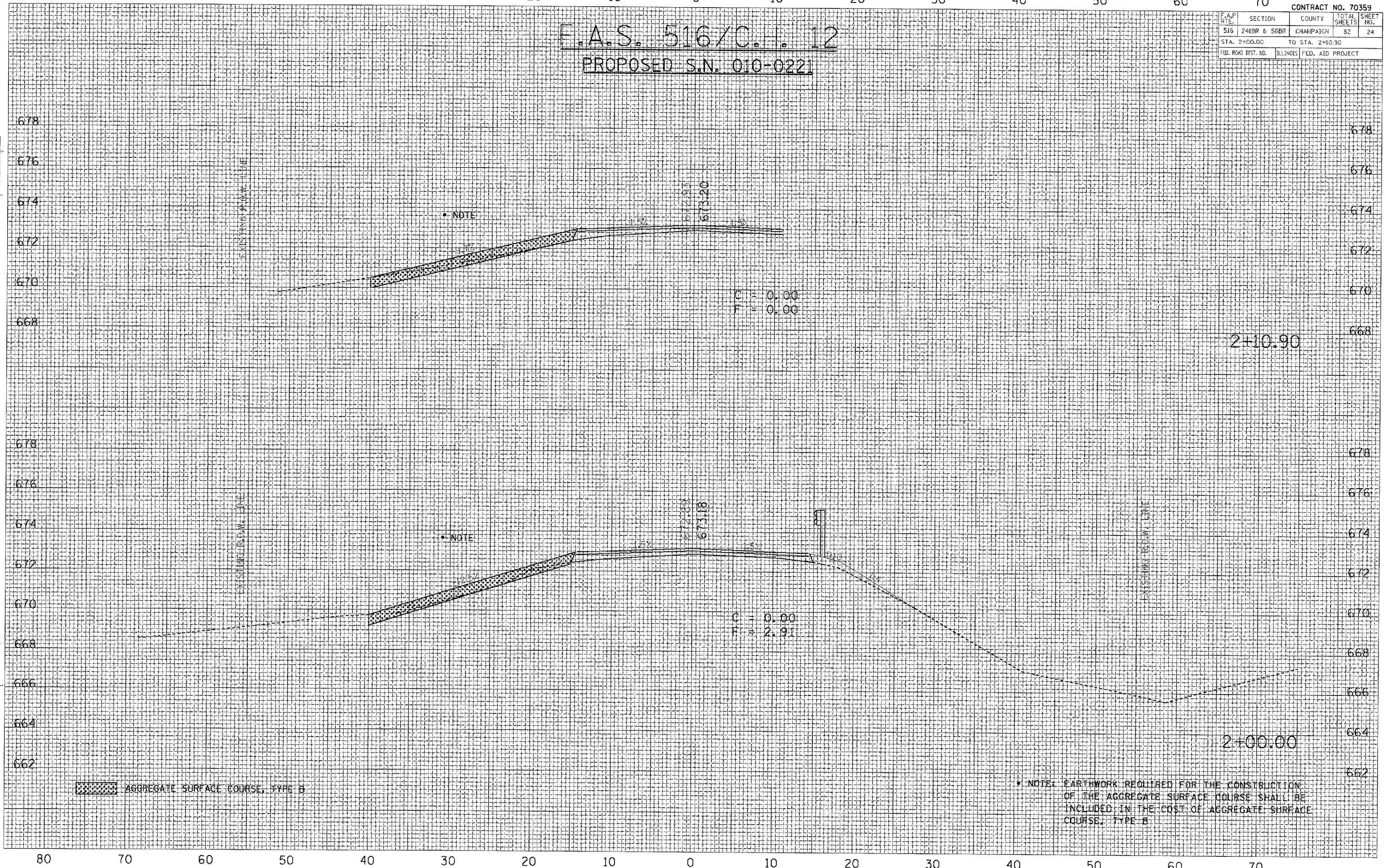
F.A.P. NO.		CONTRACT NO. 70359	
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516 241BR & 56BR	CHAMPAIGN	82	24
STA. 2+00.00		TO STA. 2+10.90	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

**E.A.S. 516/C. 12**  
**PROPOSED S.N. 010-0221**

DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY

PLOT DATE = 7/6/2006  
 PLOT SCALE = 1" = 20.00'  
 USER NAME = p12345678  
 USER NO. = 1234567890



AGGREGATE SURFACE COURSE, TYPE B

\* NOTE: EARTHWORK REQUIRED FOR THE CONSTRUCTION  
 OF THE AGGREGATE SURFACE COURSE SHALL BE  
 INCLUDED IN THE COST OF AGGREGATE SURFACE  
 COURSE, TYPE B



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

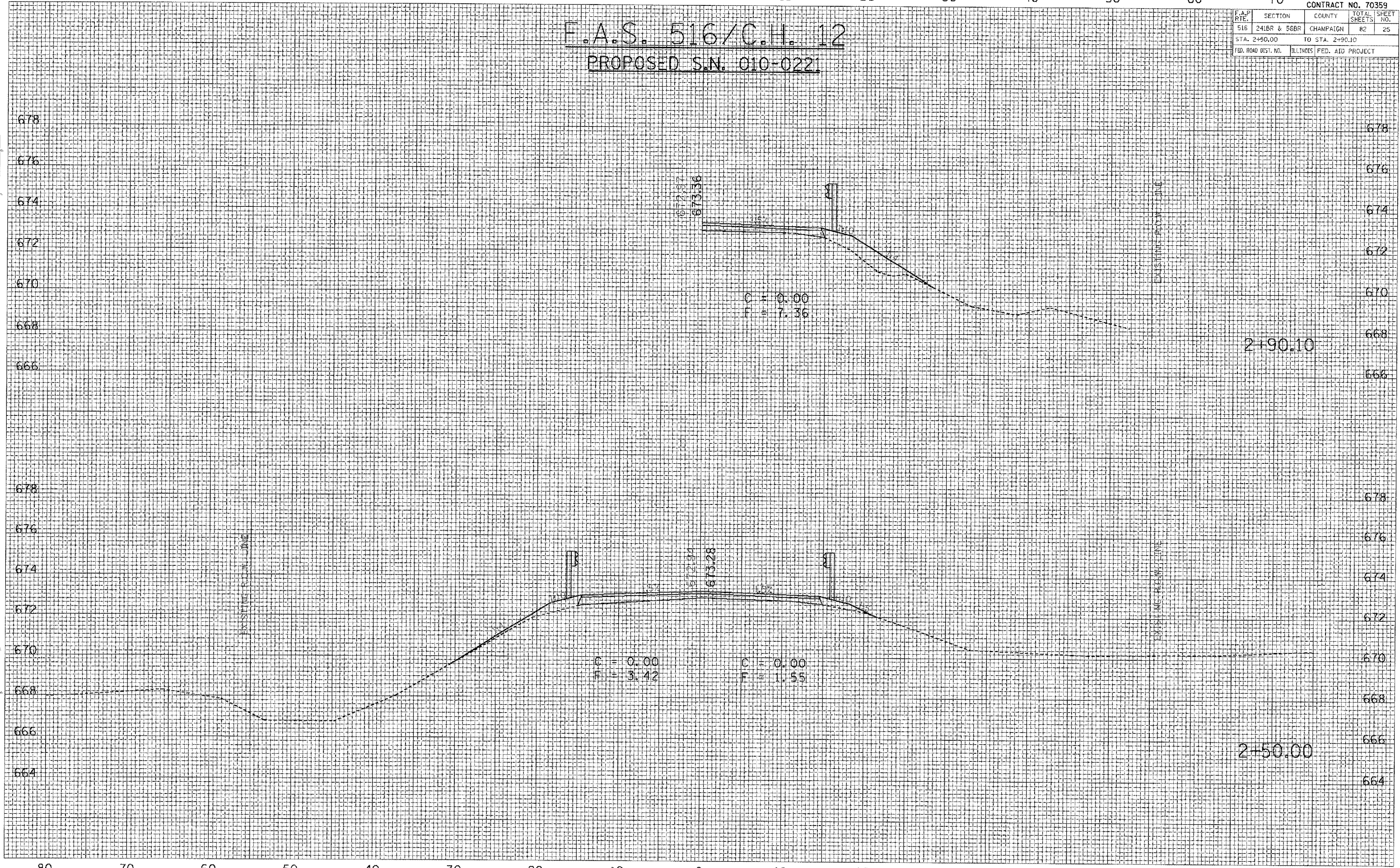
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-0221

CONTRACT NO. 70359	
F.A.P. RTE.	SECTION
516	241BR & 56BR
COUNTY	CHAMPAIGN
TOTAL SHEETS	82
SHEET NO.	25
STA. 2+50.00	TO STA. 2+90.10
ILLINOIS FED. AID PROJECT	

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY

PLOT DATE: 7/6/2008  
 PLOT SCALE: 1"=40'  
 USER: NAME: [unreadable]



C = 0.00  
 F = 7.36

C = 0.00  
 F = 3.42

C = 0.00  
 F = 1.55

2+90.10

2+50.00

EXISTING PROFF LINE

EXISTING PROFF LINE



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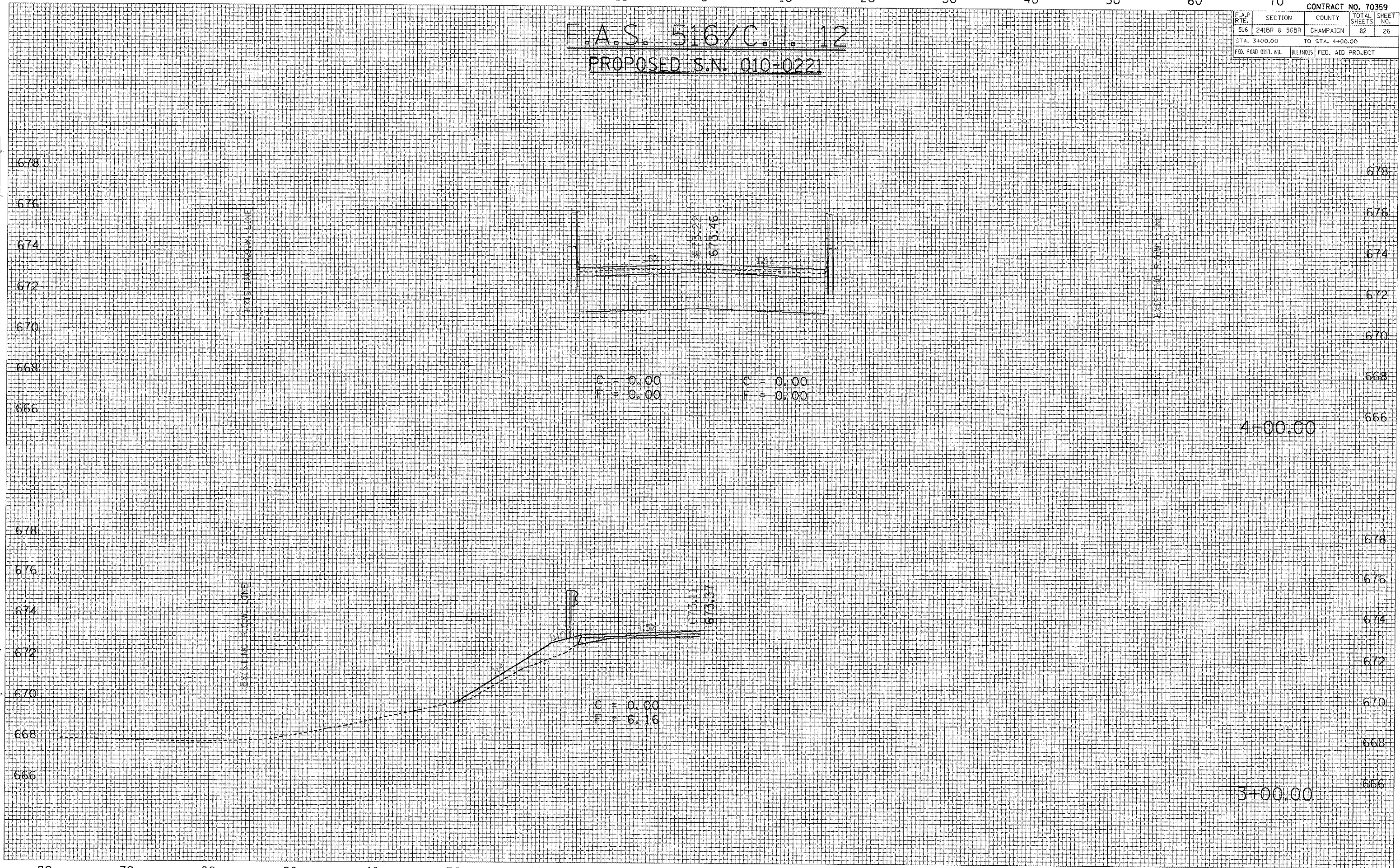
F.A.S. 516/C.H. 12  
PROPOSED S.N. 010-0221

CONTRACT NO. 70359			
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS NO.
516	241BR & 56BR	CHAMPAIGN	82
STA. 3+00.00		TO STA. 4+00.00	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

DATE	
BY	
APPROVED	
SURVEY	
NOTE BOOK	
TEMP. DATE	
F.R.S.	
AREAS CHECKED	

DATE	
BY	
APPROVED	
SURVEY	
NOTE BOOK	
TEMP. DATE	
F.R.S.	
AREAS CHECKED	

PLOT DATE = 7/2/2006  
 PLOT SCALE = 1" = 40'  
 PLOT USER = [unclear]  
 USER NAME = [unclear]



4+00.00

3+00.00



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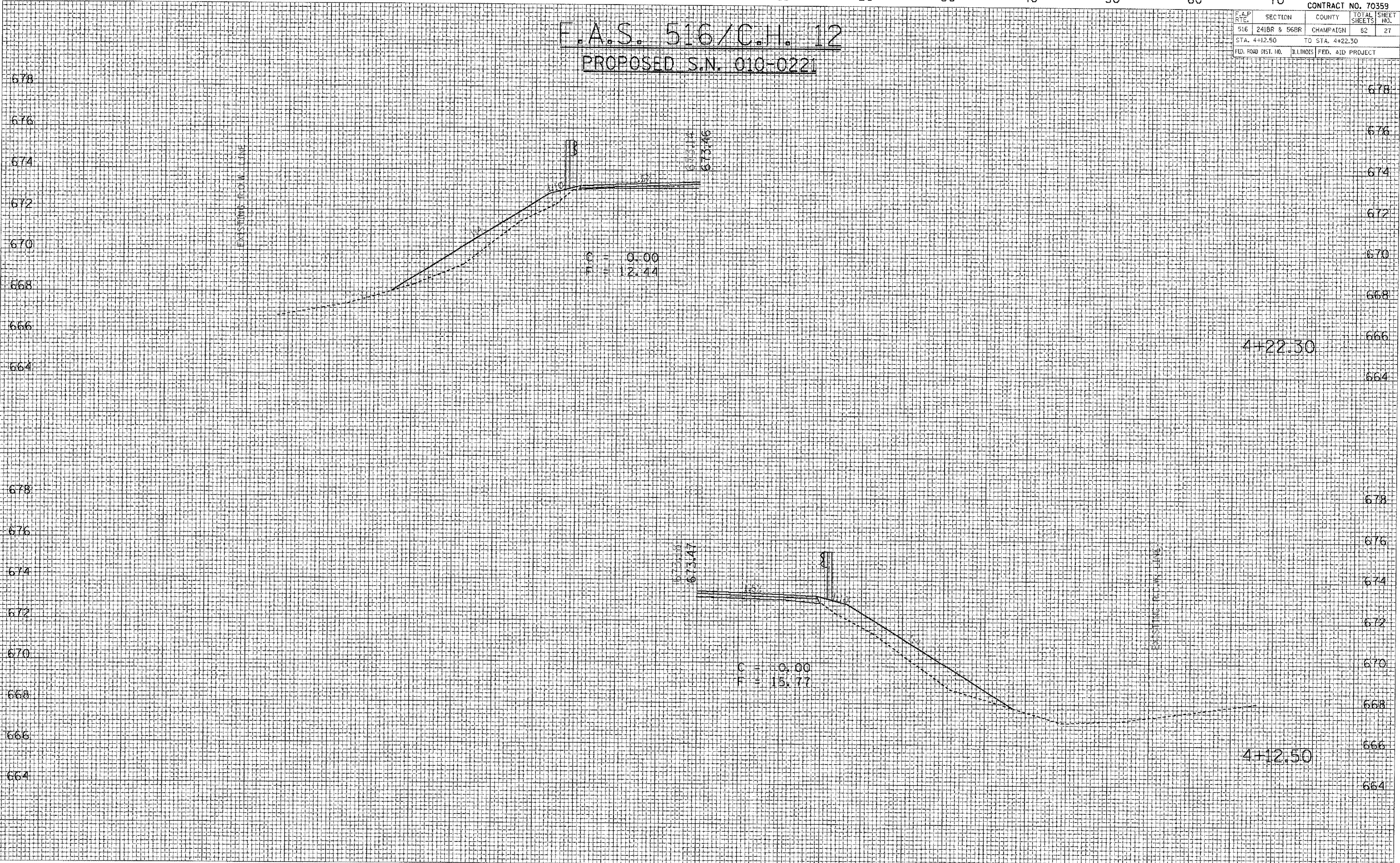
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-0221

CONTRACT NO. 70359	
F.A.P. RITE	SECTION
516	2416R & 568R
COUNTY	TOTAL SHEETS
CHAMPAIGN	82
STA. 4+12.50	TO STA. 4+22.30
ILLINOIS FED. AID PROJECT	

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\501301\1010221.dwg  
 USER NAME = pward



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80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

CONTRACT NO. 70359

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 66BR	CHAMPAIGN	82	28
STA. 4+25.00 TO STA. 4+50.00				
ILLINOIS FED. AID PROJECT				

E.A.S. 516/C.H. 12  
PROPOSED S.N. 010-0221

FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

PLOT DATE = 7/6/2006  
FILE NAME = C:\projects\516\221\4\010\0221.dwg  
USER NAME = jacob



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80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

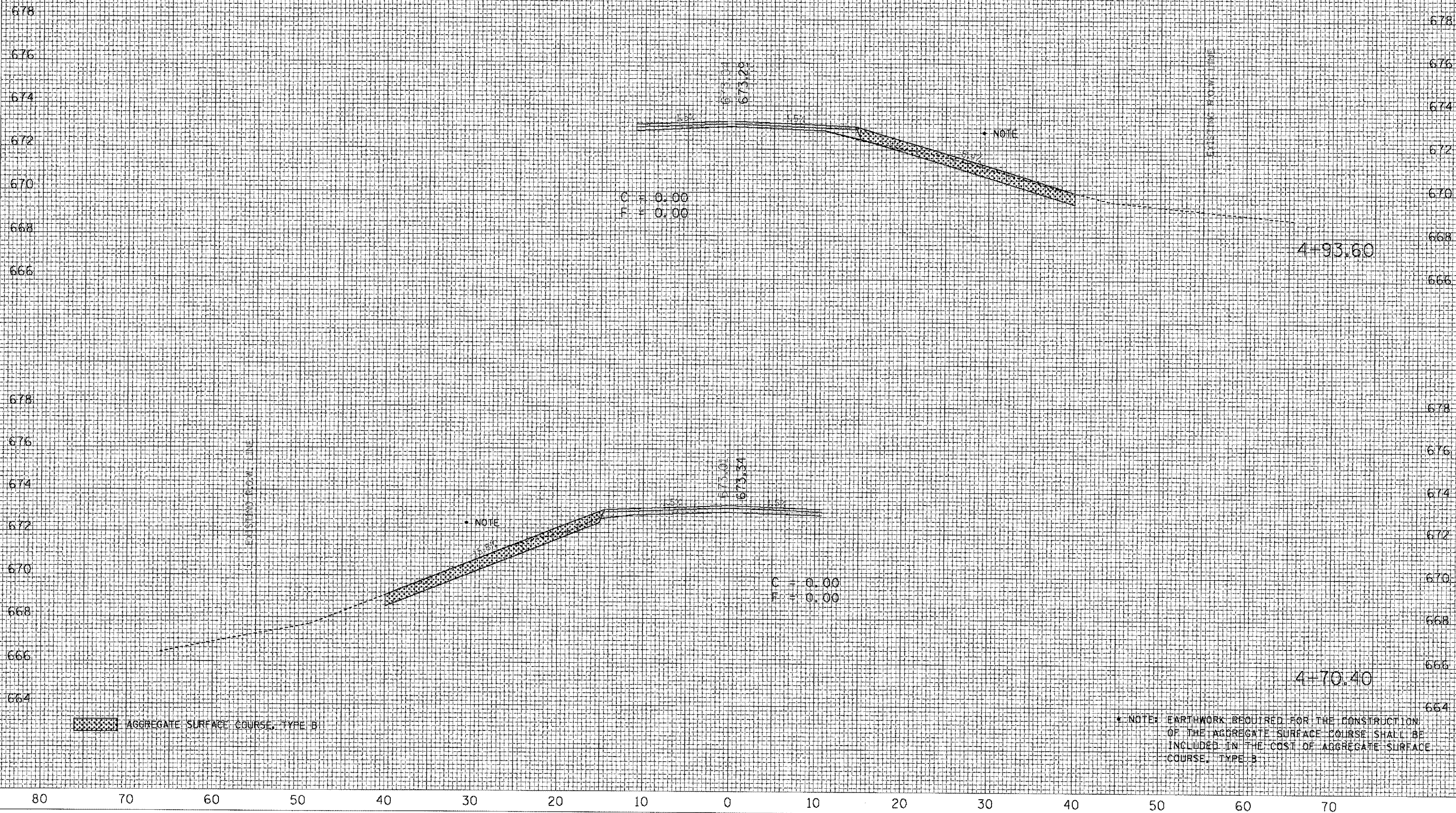
E.A.S. 516/C.H. 12  
PROPOSED S.N. 010-0221

CONTRACT NO. 70359				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SL6	241BR & 56BR	CHAMPAIGN	82	29
STA. 4+70.40		TO STA. 4+93.60		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY
DATE	BY

DATE	BY
DATE	BY

PLOT DATE = 7/6/2006  
 FILE NAME = c:\pcc\projects\010-0221\10-0221.dwg  
 USER NAME = Administrator



AGGREGATE SURFACE COURSE, TYPE B

\* NOTE: EARTHWORK REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE, TYPE B.



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CONTRACT NO. 70359

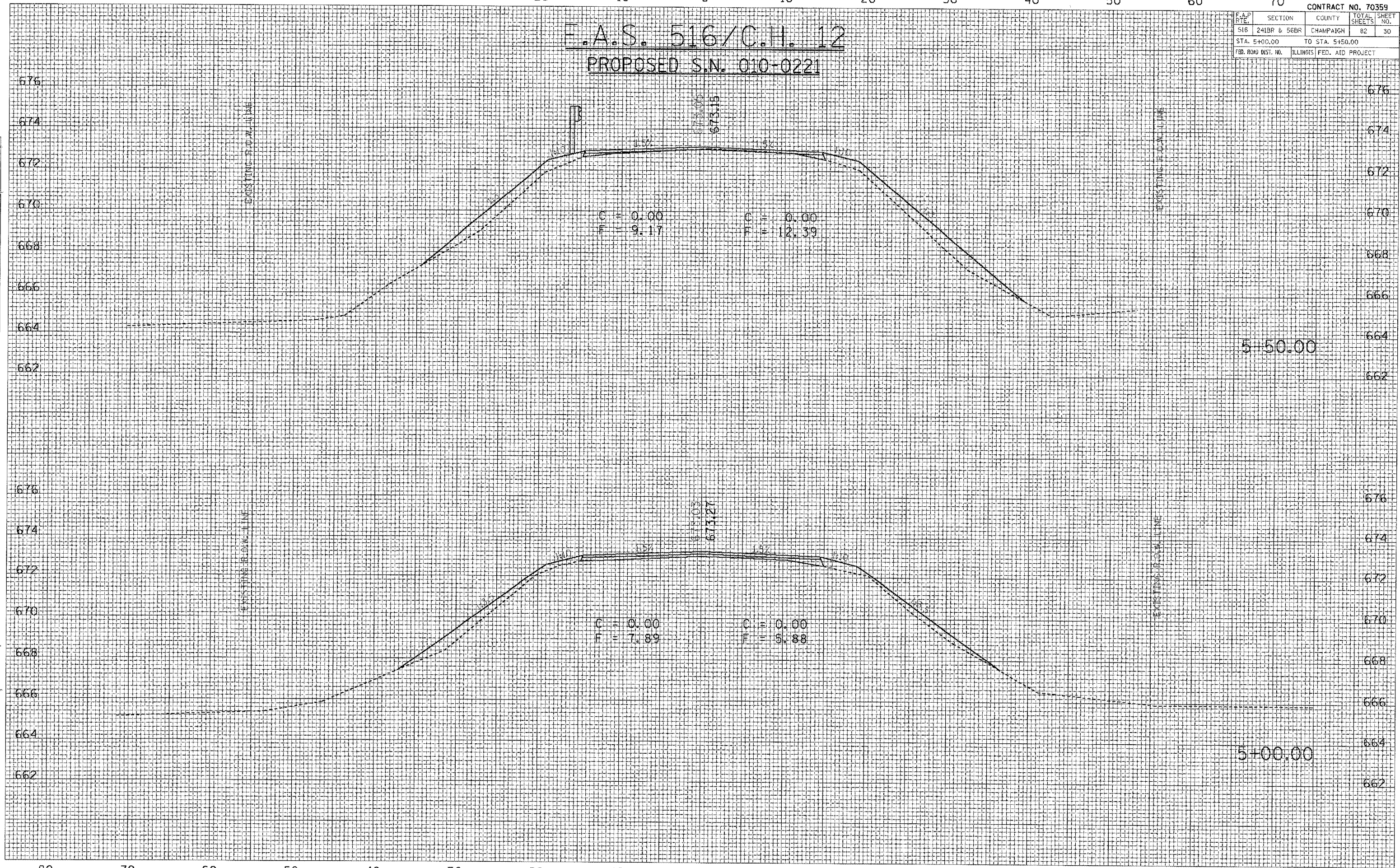
FLAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	24BR & 56BR	CHAMPAIGN	82	30
STA. 5+00.00		TO STA. 5+50.00		
FED. RDW. DIST. NO.		ILLINOIS FED. AID PROJECT		

F.A.S. 516/C.H. 12  
PROPOSED S.N. 010-0221

FINAL SURVEY	DATE
NOTE BOOK	
NO.	

ORIGINAL SURVEY	DATE
NOTE BOOK	
NO.	

PLOT DATE = 7/6/2006  
FILE NAME = c:\projects\sn010-0221\4  
USER NAME =



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80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

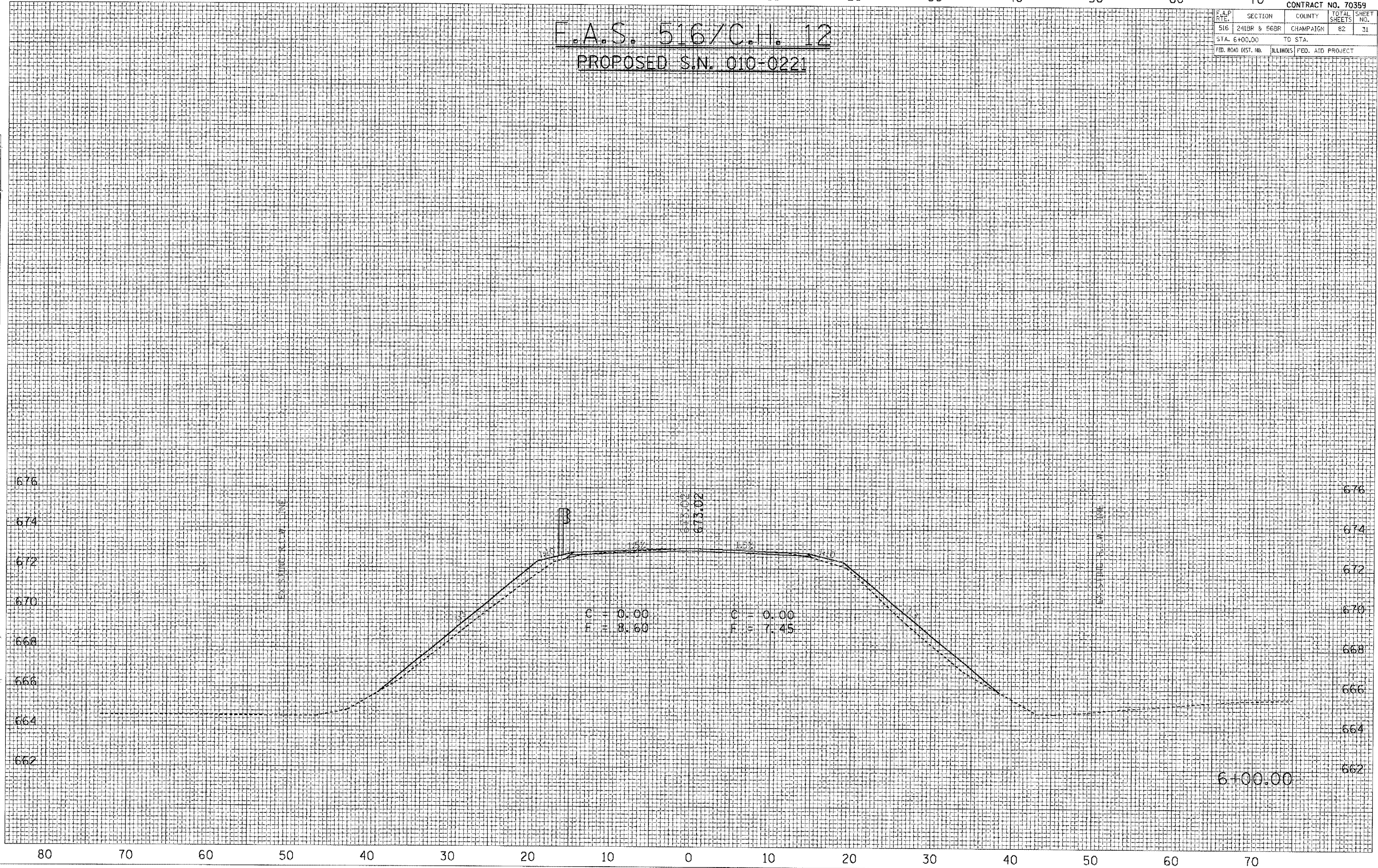
E.A.S. 5167C.H. 12  
PROPOSED S.N. 010-0221

CONTRACT NO. 70359	
F.A.P. RITE	SECTION
516	241BR & 56BR
COUNTY	TOTAL SHEETS
CHAMPAIGN	82
STA. 6+00.00	TO STA.
	31
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY

PLOT DATE = 7/6/2006  
 FILE NAME = C:\pwworkspace\proj01304\1010221.dwg  
 USER NAME = p1472006



6+00.00

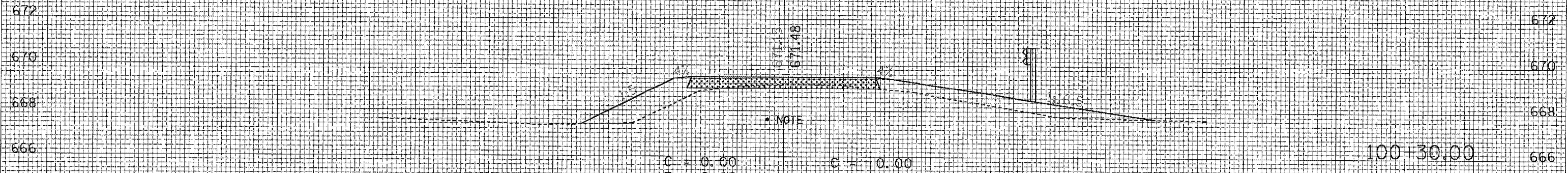


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CONTRACT NO. 70359

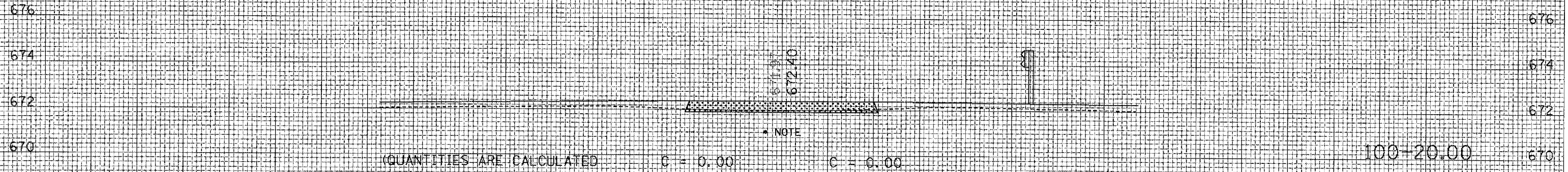
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	32
STA. 100+15.00		TO STA. 100+30.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**F.E. 2+10.00**  
**PROPOSED S.N. 010-0221**



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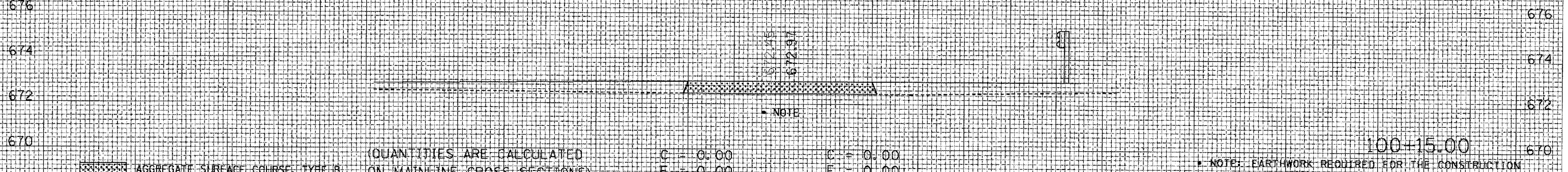
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(QUANTITIES ARE CALCULATED ON MAINLINE CROSS SECTIONS)

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F = 0.00

C = 0.00  
F = 0.00



(QUANTITIES ARE CALCULATED ON MAINLINE CROSS SECTIONS)

C = 0.00  
F = 0.00

C = 0.00  
F = 0.00

NOTE: EARTHWORK REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE, TYPE-B

AGGREGATE SURFACE COURSE, TYPE B

DATE	BY

DATE	BY

PLOT DATE = 7/5/2008  
FILE NAME = c:\projects\0501304\1\010221.dwg  
USER NAME = jlp



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CONTRACT NO. 70359

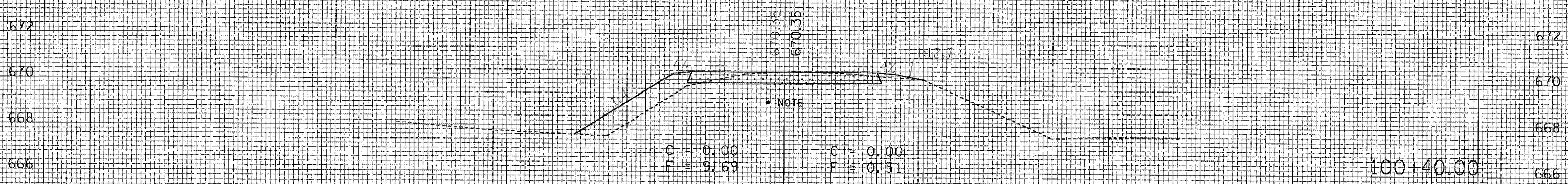
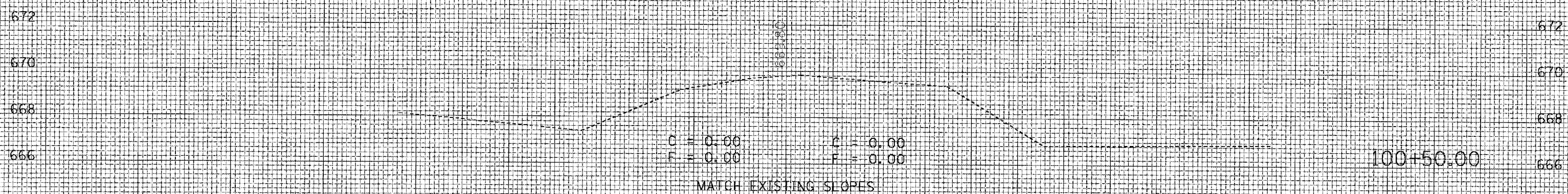
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 569R	CHAMPAIGN	82	33
STA. 100+40.00		TO STA. 100+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

F.E. 2+10.00  
PROPOSED S.N. 010-0221

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

PLOT DATE = 7/6/2006  
 FILE NAME = G:\P01021\F01021.dwg  
 USER NAME = j...  
 USER NAME = j...



AGGREGATE SURFACE COURSE, TYPE B

NOTE: EARTHWORK REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE, TYPE B

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80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

CONTRACT NO. 70359

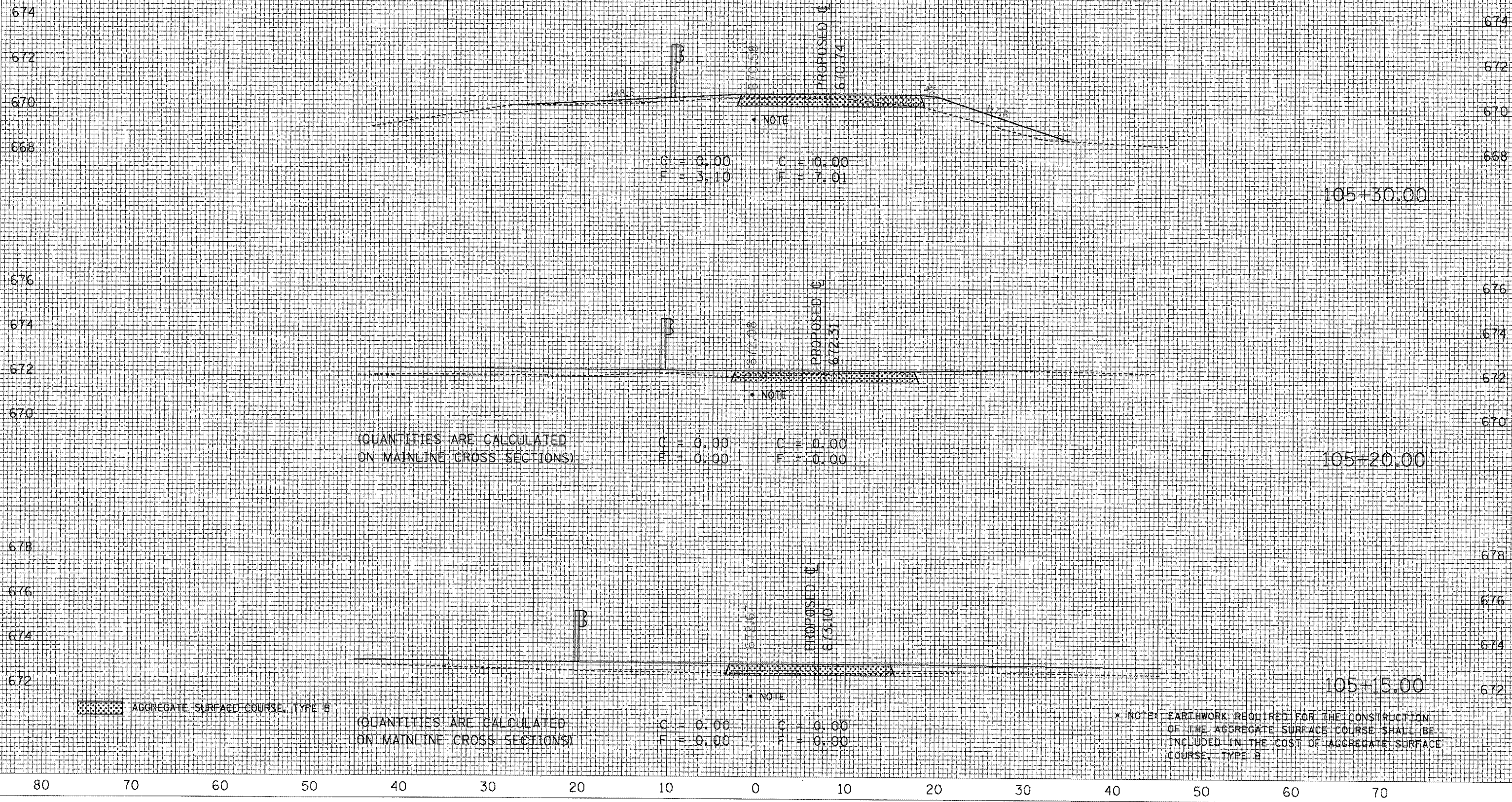
E.A.S. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	34
STA. 105+15.00		TO STA. 105+30.00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

F.E. 4+70.00  
PROPOSED LT. STA. 4+76.50  
PROPOSED S.N. 010-0221

DATE  
 BY  
 SURVEYED  
 PLOTTED  
 RECALCULATED  
 AREAS CHECKED  
 NO.

DATE  
 BY  
 SURVEYED  
 PLOTTED  
 RECALCULATED  
 AREAS CHECKED  
 NO.

DATE: 7/6/2006  
 FILE NAME: c:\projects\70359\034\034\0221.s  
 USER: j...  
 USER NAME: j...



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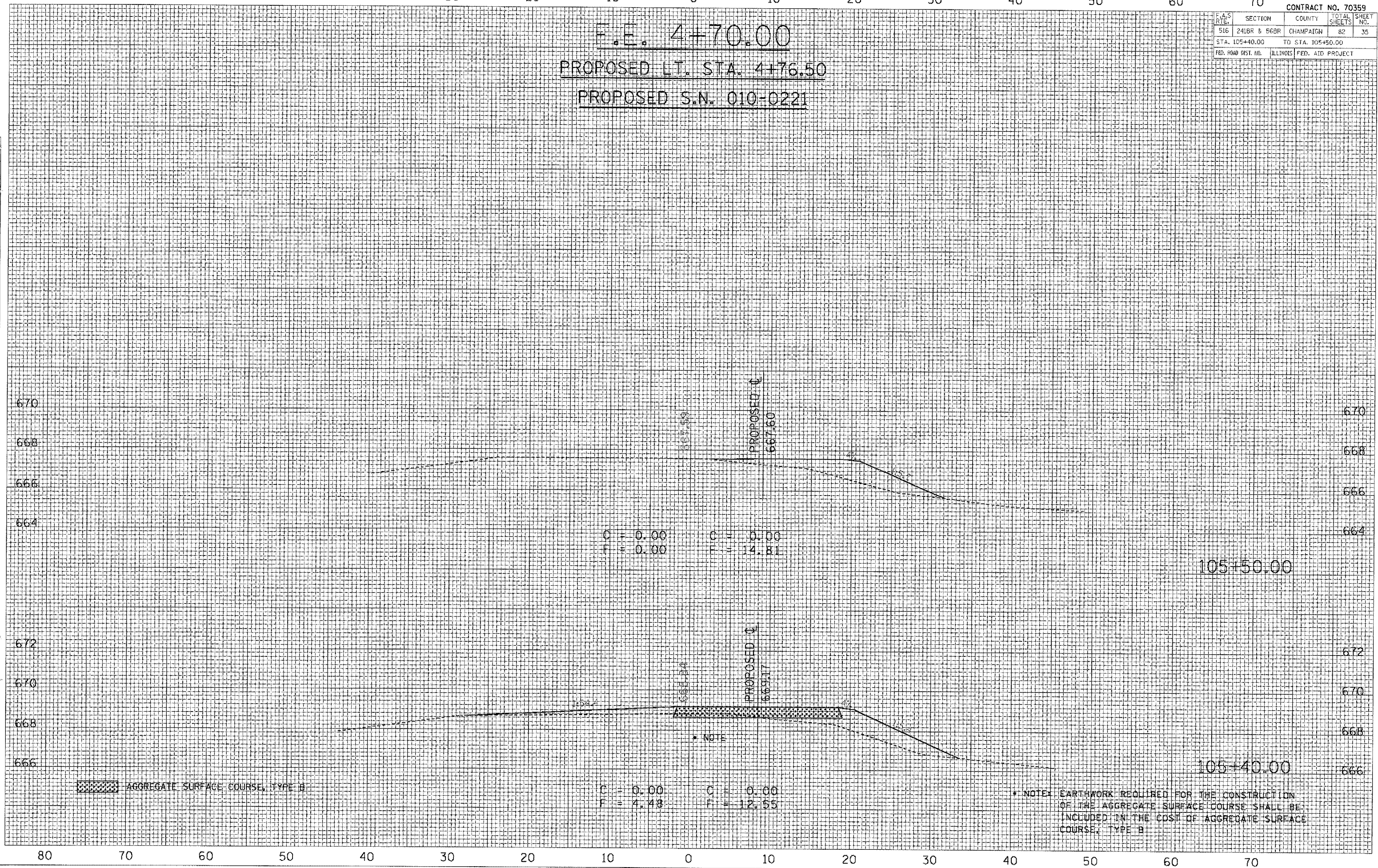
CONTRACT NO. 70359				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 66BR	CHAMPAIGN	82	35
STA. 105+40.00 TO STA. 105+50.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

F.E. 4+70.00  
PROPOSED LT. STA. 4+76.50  
PROPOSED S.N. 010-0221

FINAL SURVEY	BY	DATE
NO. _____		
SURVEYED		
TEMA/ALU		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NO. _____		
SURVEYED		
TEMA/ALU		
AREAS		
AREAS CHECKED		

PLOT DATE = 7/6/2005  
 FILE NAME = G:\Projects\4512\104 48A\0221.dwg  
 USER NAME = jh



C = 0.00      C = 0.00  
 F = 0.00      F = 14.81

C = 0.00      C = 0.00  
 F = 4.48      F = 12.55

AGGREGATE SURFACE COURSE, TYPE B

NOTE: EARTHWORK REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE, TYPE B



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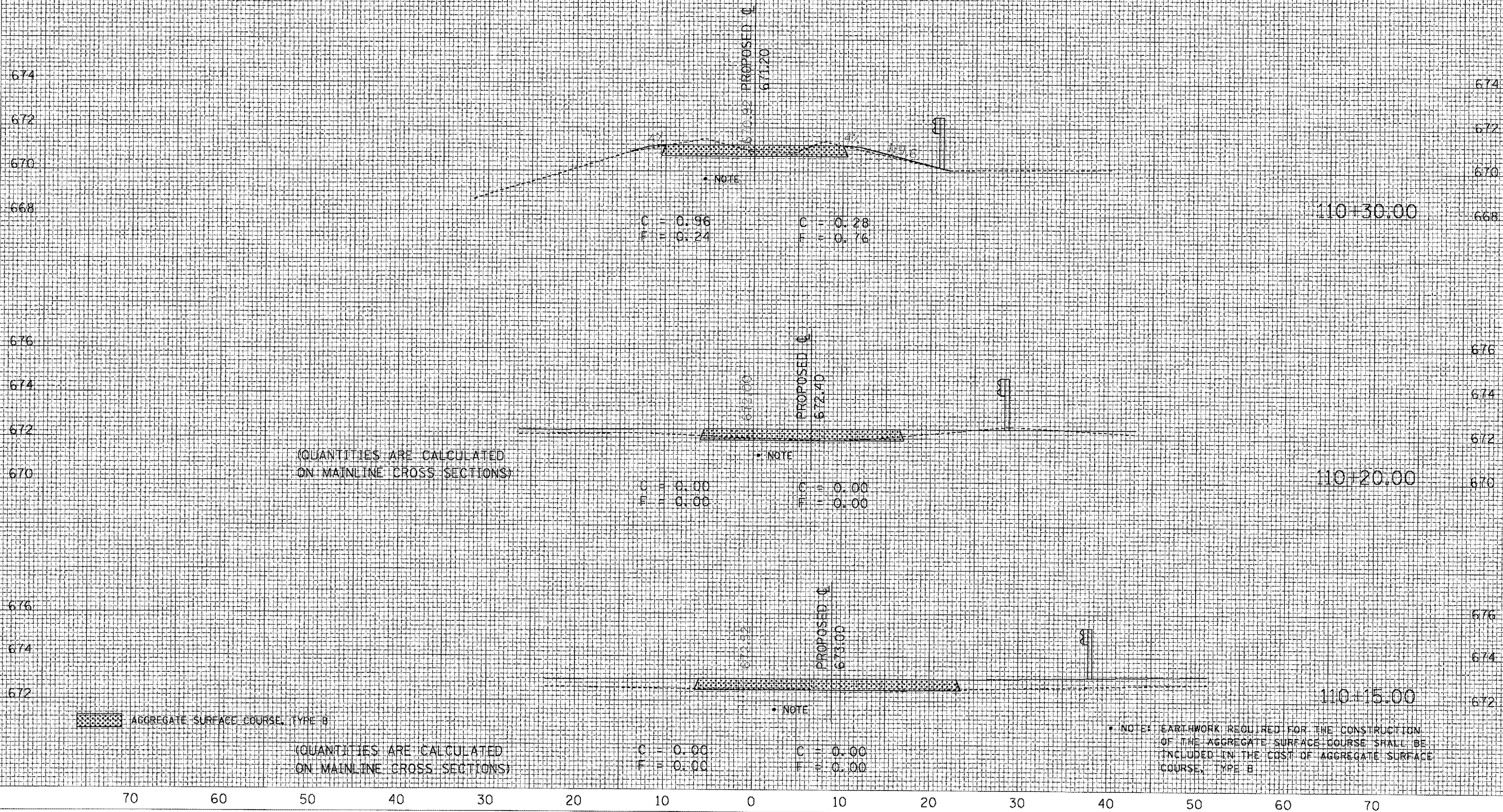
CONTRACT NO. 70359				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 565R	CHAMPAIGN	82	36
STA. 110+15.00 TO STA. 110+20.00				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

F.E. 4+93.00  
 PROPOSED RT. STA. 4+75.00  
 PROPOSED S.N. 010-0221

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

PLOT DATE: 7/6/2006  
 FILE NAME: C:\pwork\projects\010-0221\A\PROJ\PROJ\010-0221.dwg  
 USER: NAME  
 USER: NAME



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70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

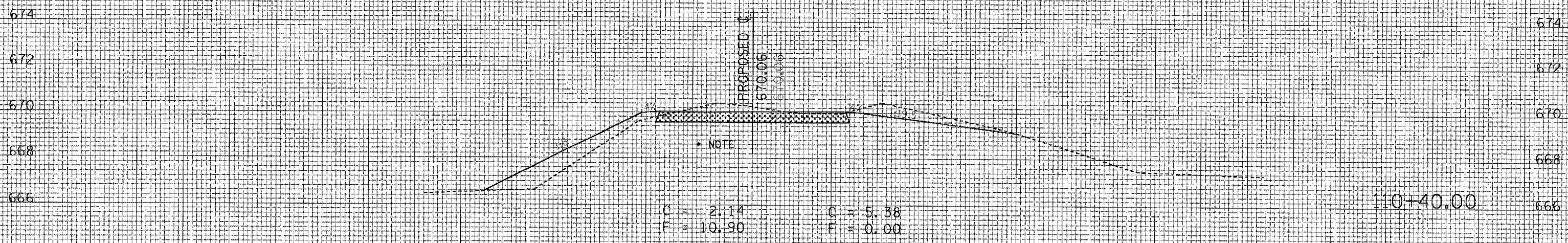
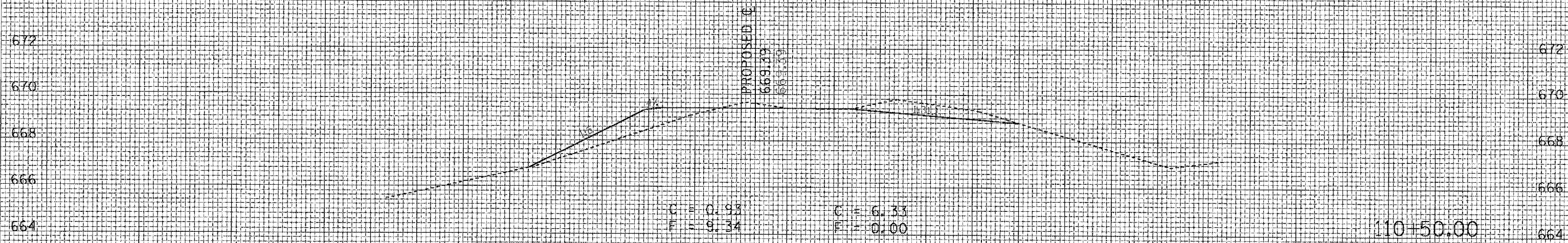
CONTRACT NO. 70359				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	37
STA. 110+30.00 TO STA. 110+60.00				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

F.E. 4+93.00  
PROPOSED RT. STA. 4+75.00  
PROPOSED S.N. 010-0221

FINAL SURVEY	BY	DATE
SURVEYED		
NOTED		
REVISIONS		
NO.		

ORIGINAL SURVEY	BY	DATE
PROCESSED		
PROTOTYPED		
TEMPLATE		
AREAS		
NO.		

PLOT DATE = 7/6/2006  
 FILE NAME = c:\p0\proj\ts\010-0221\110+30-110+60.dwg  
 SCALE = 1/8" = 100'  
 USER NAME = pmmr



AGGREGATE SURFACE COURSE, TYPE B

• NOTE: EARTHWORK REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE, TYPE B

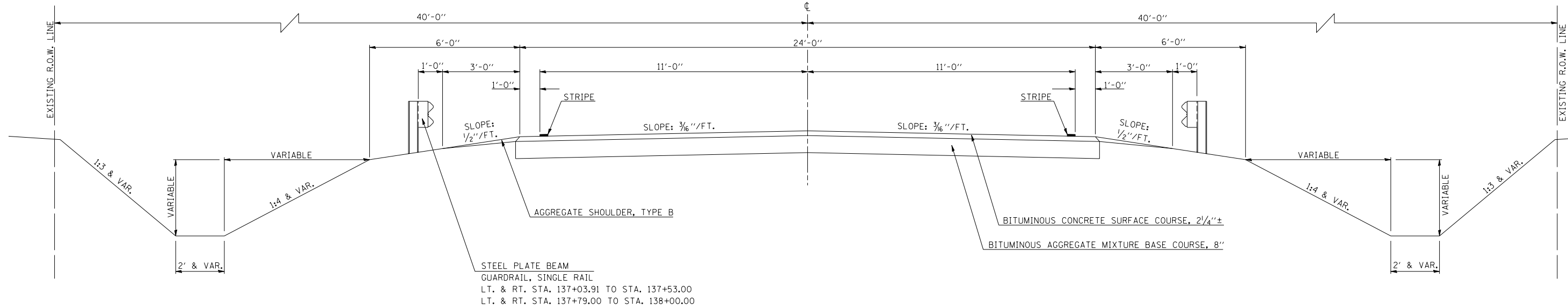
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	38
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### EXISTING TYPICAL CROSS SECTION (A)

EXISTING S. N. 010-0087

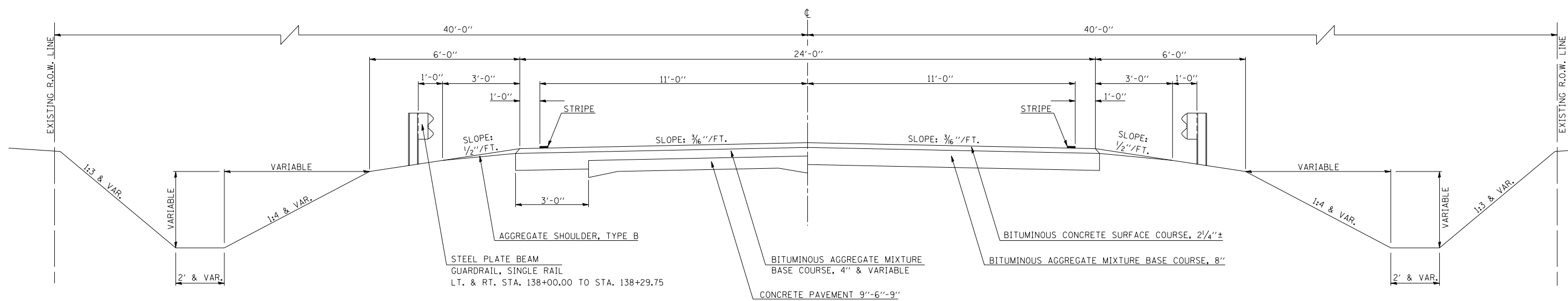
STATION 135+50.00 TO STATION 137+53.00 ©  
 © STATION 137+79.00 TO STATION 138+00.00 (B)



### EXISTING TYPICAL CROSS SECTION (B)

EXISTING S. N. 010-0087

(A) STATION 138+00.00 TO STATION 140+00.00



PLOT DATE = 7/6/2006  
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 PLOT SCALE = 42.3529' / IN.  
 USER NAME = piersebr

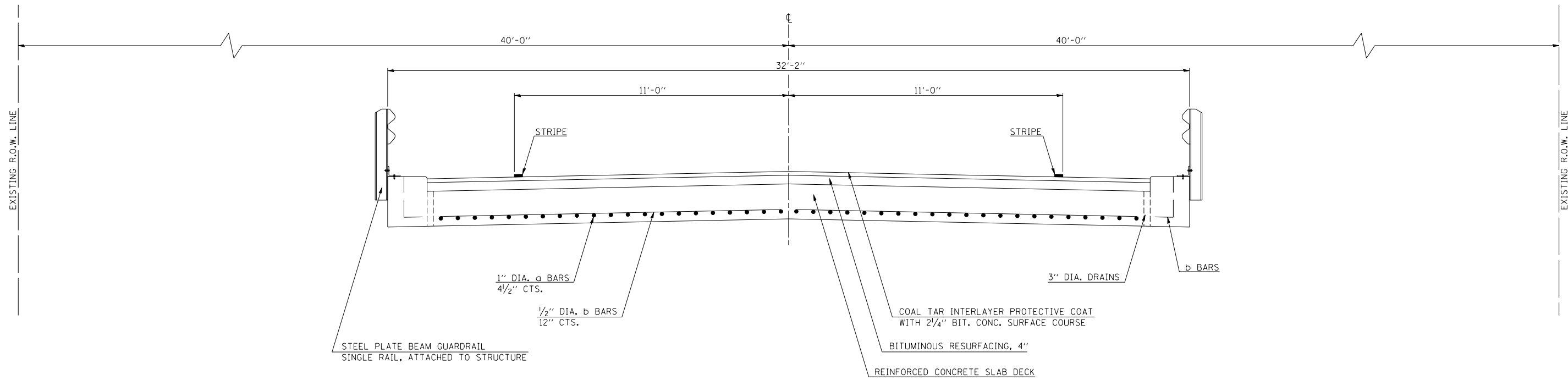


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	39
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# EXISTING TYPICAL CROSS SECTION ©

EXISTING S.N. 010-0087

Ⓐ STATION 137+53.00 TO STATION 137+79.00 Ⓐ



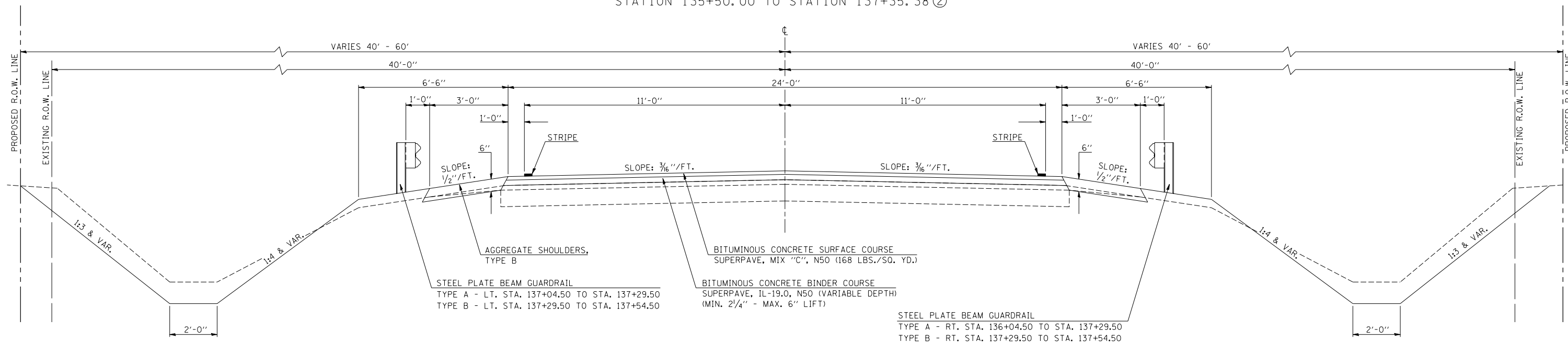
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 USER NAME = piersonbr

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	40
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### PROPOSED TYPICAL CROSS SECTION ①

PROPOSED S.N. 010-2028

STATION 135+50.00 TO STATION 137+35.38 ②

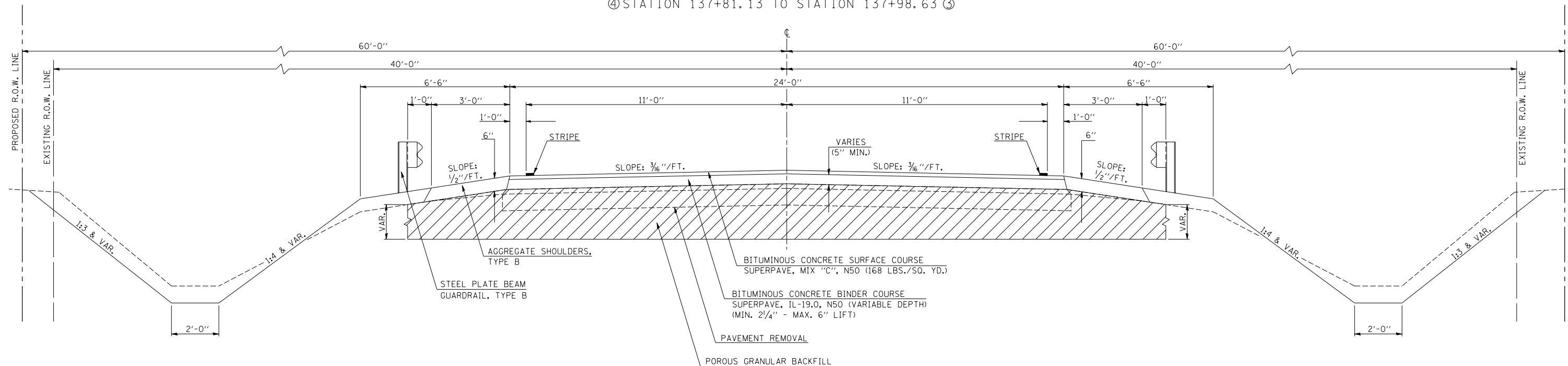


### PROPOSED TYPICAL CROSS SECTION ②

PROPOSED S.N. 010-2028

① STATION 137+35.38 TO STATION 137+52.88 ④

④ STATION 137+81.13 TO STATION 137+98.63 ③



POROUS GRANULAR BACKFILL - CA 6

PROPOSED TYPICAL CROSS SECTION  
PROPOSED S.N. 010-2028



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	42
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

## SCHEDULE OF QUANTITIES

### PROPOSED S.N. 010-2028

#### SHEET 1 OF 2

44000100 PAVEMENT REMOVAL

STATION	TO	STATION	WIDTH (FT)	QUANTITY (SQ YD)
RT. 137+35.38	—	RT. 137+53.00	12.0	23.49
LT. 137+35.38	—	LT. 137+53.00	12.0	23.49
RT. 137+79.00	—	RT. 137+98.79	12.0	26.39
LT. 137+79.00	—	LT. 137+98.79	12.0	26.39
TOTAL =				99.76 SQ YD
USE =				100.00 SQ YD

20900110 POROUS GRANULAR BACKFILL

STATION	TO	STATION	WIDTH (FT)	QUANTITY (CU YD)
RT. 137+35.38	—	RT. 137+52.88	16.0	77.00
LT. 137+35.38	—	LT. 137+52.88	16.0	77.00
RT. 137+81.13	—	RT. 137+98.79	16.0	76.87
LT. 137+81.13	—	LT. 137+98.79	16.0	76.87
TOTAL =				307.74 CU YD
USE =				308.00 CU YD

40600980 BITUMINOUS SURFACE REMOVAL - BUTT JOINT

STATION	TO	STATION	WIDTH (FT)	QUANTITY (SQ YD)
RT. 135+50.0	—	RT. 136+10.0	12.0	80.00
LT. 135+50.0	—	LT. 136+10.0	12.0	80.00
RT. 139+60.0	—	RT. 140+00.0	12.0	53.33
LT. 139+60.0	—	LT. 140+00.0	12.0	53.33
TOTAL =				266.66 SQ YD
USE =				267.00 SQ YD

50105210 REMOVE EXISTING CULVERT

STATION	LOCATION	TYPE	QUANTITY (FOOT)
LT. 136+82.00	FIELD ENTRANCE	CORR. PVC	41.0
TOTAL =			41.0 FOOT

542D0220 PIPE CULVERT, CLASS D, TYPE 1, 15"

STATION	LOCATION	QUANTITY (FOOT)
LT. 136+82.00	FIELD ENTRANCE	46.0
TOTAL =		46.0 FOOT

54213450 END SECTION, 15"

STATION	LOCATION	QUANTITY (EACH)
LT. 136+60.00	FIELD ENTRANCE	1.0
LT. 137+06.00	FIELD ENTRANCE	1.0
TOTAL =		2.0 EACH

40200800 AGGREGATE SURFACE COURSE, TYPE B

STATION	LOCATION	QUANTITY (TON)
LT. 136+82.00	FIELD ENTRANCE	22.0
TOTAL =		22.0 TON

63200310 GUARDRAIL REMOVAL

STATION	TO	STATION	QUANTITY (FOOT)
RT. 137+04.00	—	RT. 138+29.00	125.00
LT. 137+04.00	—	LT. 138+29.00	125.00
TOTAL =			250.00 FOOT

63000000 STEEL PLATE BEAM GUARDRAIL, TYPE A

STATION	TO	STATION	QUANTITY (FOOT)
RT. 136+04.50	—	RT. 137+29.50	125.0
LT. 137+04.50	—	LT. 137+29.50	25.0
RT. 138+04.50	—	RT. 138+54.50	50.0
LT. 138+04.50	—	LT. 139+29.50	125.0
TOTAL =			325.0 FOOT

63000005 STEEL PLATE BEAM GUARDRAIL, TYPE B

STATION	TO	STATION	QUANTITY (FOOT)
RT. 137+29.50	—	RT. 137+54.50	25.0
LT. 137+29.50	—	LT. 137+54.50	25.0
RT. 137+79.50	—	RT. 138+04.50	25.0
LT. 137+79.50	—	LT. 138+04.50	25.0
TOTAL =			100.0 FOOT

63300725 STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)

STATION	TO	STATION	QUANTITY (FOOT)
LT. 136+96.00	—	LT. 137+04.50	13.5
TOTAL =			13.5 FOOT

63000025 STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE

STATION	TO	STATION	QUANTITY (FOOT)
RT. 137+54.50	—	RT. 137+79.50	25.0
LT. 137+54.50	—	LT. 137+79.50	25.0
TOTAL =			50.0 FOOT

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

STATION	TO	STATION	QUANTITY (EACH)
RT. 135+54.50	—	RT. 136+04.50	1.0
RT. 138+54.50	—	RT. 139+04.50	1.0
LT. 139+29.50	—	LT. 139+79.50	1.0
TOTAL =			3.0 EACH

63100045 TRAFFIC BARRIER TERMINAL, TYPE 2

STATION	OFFSET	QUANTITY (EACH)
LT. 136+96.00	24.5 FT TO 37.0 FT	1.0
TOTAL =		1.0 EACH

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SCHEDULE OF QUANTITIES**  
**PROPOSED S.N. 010-2028**  
 F.A.S. 516/(C.H. 12)  
 241BR & 56BR  
 CHAMPAIGN COUNTY

SCALE: NOT TO SCALE      DRAWN BY: B.B.P.  
 DATE: 05/15/06      CHECKED BY: G.A.E.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	43
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

## SCHEDULE OF QUANTITIES

### PROPOSED S.N. 010-2028

#### SHEET 2 OF 2

78200405 GUARDRAIL MARKERS

STATION	TO	STATION	QUANTITY (EACH)
RT. 136+04.50	—	RT. 138+54.50	4.0
LT. 136+96.00		LT. 139+29.50	4.0
TOTAL =			8.0 EACH

78201000 TERMINAL MARKER - DIRECT APPLIED

STATION	QUANTITY (EACH)
RT. 135+54.50	1.0
LT. 136+96.00	1.0
RT. 139+04.50	1.0
LT. 139+79.50	1.0
TOTAL = 4.0 EACH	

78001110 PAINT PAVEMENT MARKING - LINE 4"

LOCATION	STATION	TO	STATION	QUANTITY (FOOT)	COLOR
CENTERLINE	135+50.00	—	140+00.00	120.0	YELLOW
EDGE LINE	RT. 135+50.00		RT. 140+00.00	450.0	WHITE
EDGE LINE	LT. 135+50.00		LT. 140+00.00	450.0	WHITE
TOTAL = 1,020.0 FOOT					

66600105 FURNISH & ERECT RIGHT OF WAY MARKERS

STATION	OFFSET	QUANTITY (EACH)
136+90.00	40.00' RT.	1.0
137+00.00	40.00' LT.	1.0
137+10.00	60.00' RT.	1.0
137+20.00	60.00' LT.	1.0
138+10.00	60.00' RT.	1.0
138+10.00	60.00' LT.	1.0
138+30.00	40.00' RT.	1.0
138+30.00	40.00' LT.	1.0
TOTAL = 8.0 EACH		

60100915 PIPE DRAINS 6" (\*)

STATION	OFFSET	QUANTITY (FOOT)
137+10.00	40.00' LT.	16.0
TOTAL = 16.0 FOOT		

• NOTE: STATIONS AND OFFSETS LISTED ARE APPROXIMATE. FIELD CONDITIONS WILL DETERMINE FINAL LOCATION OF PIPE OUTLET.

EARTHWORK

LOCATION	20200100 EARTH EXCAVATION CU YD	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
RT. STA. 135+20.00 TO 137+54.20	166.0	124.5	19.0	105.5
RT. STA. 137+79.60 TO 140+15.00	213.0	159.8	38.0	121.8
LT. STA. 135+40.00 TO 137+54.20	184.0	138.0	52.0	86.0
LT. STA. 137+79.60 TO 140+15.00	242.0	181.5	70.0	111.5
TOTAL = 805.0 CU YD      603.8 CU YD      179.0 CU YD      424.8 CU YD				
		EARTH EXCAVATION SHRINKAGE FACTOR =	805.0 CU YD	25.0 %

•• NOTE: THE SUITABLE WASTE MATERIAL EXCAVATED FROM S.N. 010-2028 SHALL BE TRANSPORTED TO S.N. 010-0221 AND USED AS EMBANKMENT (SEE SHEET 12).

20300100 CHANNEL EXCAVATION

LOCATION	CHANNEL EXCAVATION CU YD	CHANNEL EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
STREAM STA. 9+30.00 TO 9+82.00	326.0	244.5	0.0	244.5
STREAM STA. 10+18.00 TO 10+70.00	168.0	126.0	0.0	126.0
LT. STA. 137+41.15 TO 137+84.60	118.0	88.5	0.0	88.5
RT. STA. 137+48.00 TO 137+92.85	237.0	177.8	0.0	177.8
TOTAL = 849.0 CU YD      636.8 CU YD      0.0 CU YD      636.8 CU YD				
		CHANNEL EXCAVATION SHRINKAGE FACTOR =	849.0 CU YD	25.0 %

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\vd01304 (v8)\2028\text.dgn  
 PLOT SCALE = 42.3529' / IN.  
 USER NAME = piersebr

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SCHEDULE OF QUANTITIES**  
**PROPOSED S.N. 010-2028**  
 F.A.S. 516/(C.H. 12)  
 241BR & 56BR  
 CHAMPAIGN COUNTY  
 SCALE: NOT TO SCALE      DRAWN BY: B.B.P.  
 DATE: 05/15/06      CHECKED BY: G.A.E.

# BENCHMARKS

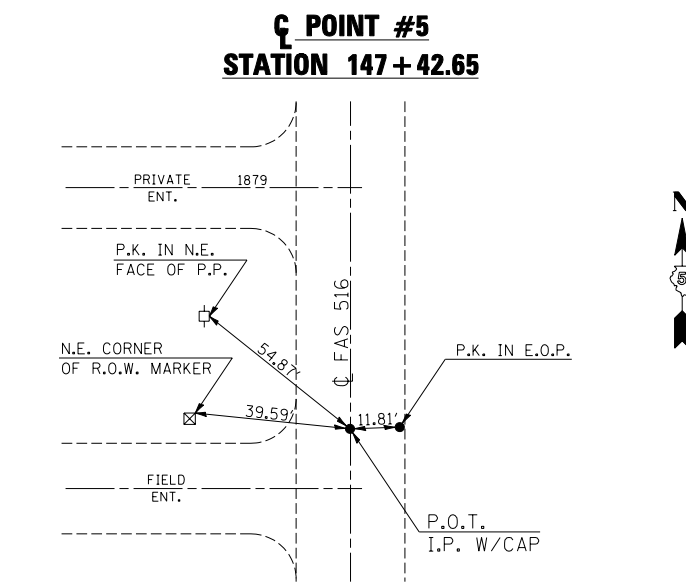
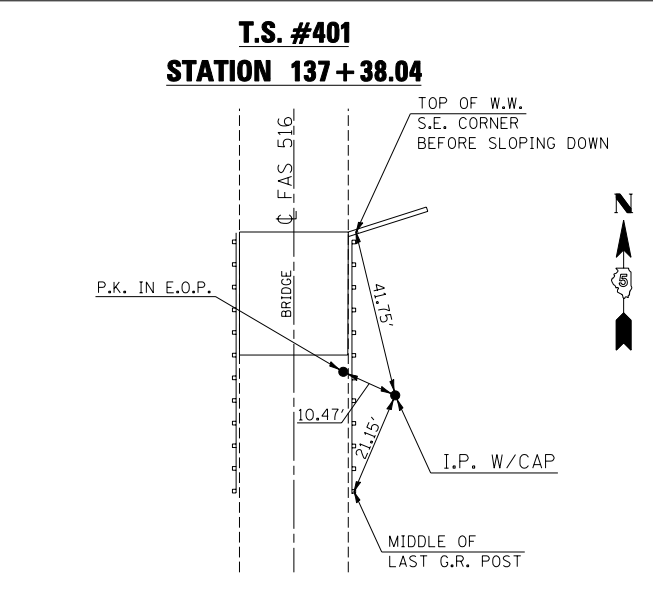
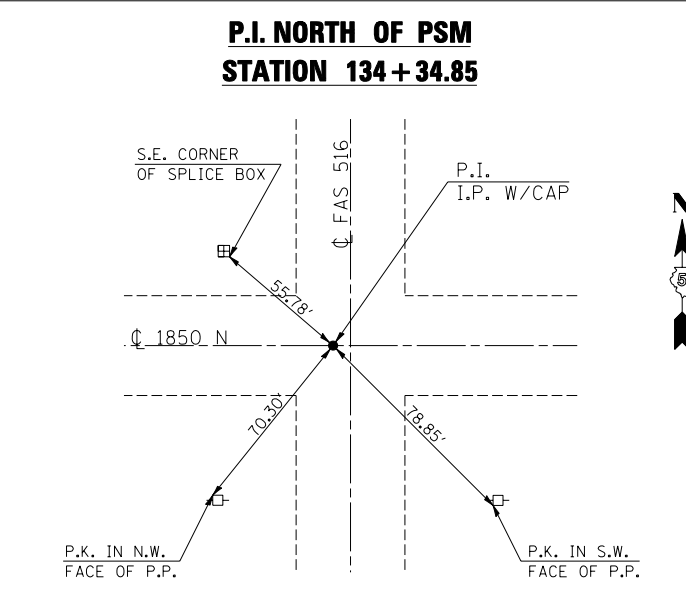
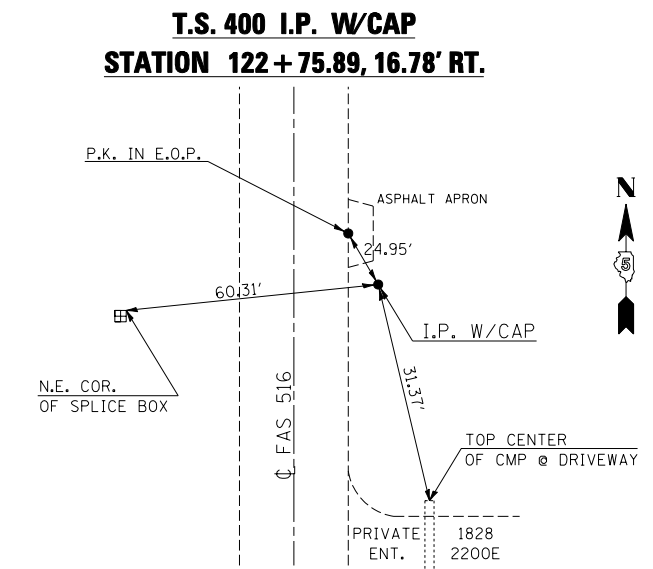
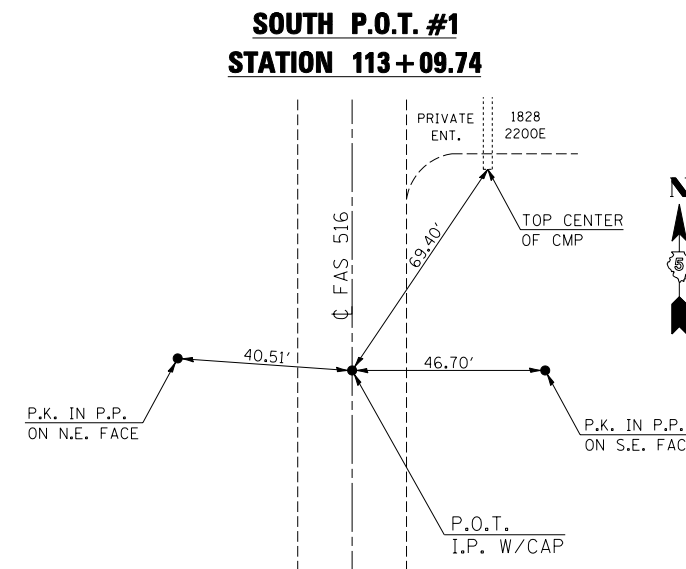
PROPOSED S.N. 010-2028

- B.M. 4592-1** CHISELED SQUARE  
 0.4 MILE NORTH OF THE INTERSECTION OF MAIN STREET AND U.S. ROUTE 150 TO THE MARK ON THE EAST SIDE OF MAIN STREET. MARK IS LOCATED ON THE WEST CONCRETE FOUNDATION OF CHAMPAIGN/DANVILLE I-74 SIGN. SIGN IS LOCATED 0.1 MILE SOUTH OF INTERSTATE BRIDGE.  
 ELEV. = 681.97
- B.M. 4592-2** CHISELED SQUARE  
 MARK IS LOCATED 0.6 MILE NORTH OF INTERSECTION OF MAIN STREET AND U.S. ROUTE 150 ON THE EAST SIDE OF MAIN STREET. MARK IS LOCATED ON THE NORTH CORNER OF A CONCRETE ISLAND LOCATED AT THE INTERSECTION OF MAIN STREET AND THE WEST BOUND OFF RAMP OF I-74. MARK IS 0.1 MILE NORTH OF I-74 BRIDGE.  
 ELEV. = 689.67
- B.M. 4592-3** CHISELED SQUARE  
 MARK IS LOCATED 0.25 MILE EAST OF THE INTERSTATE BRIDGE AT ST JOSEPH. IT IS A CHISELED SQUARE LOCATED ON WEST SIDE OF A BOX CULVERT 25 FEET NORTH OF A STATION MARK 778+00 NORTH OF THE WEST BOUND LANES OF I-74.  
 ELEV. = 670.10
- B.M. 4592-4** CHISELED SQUARE  
 MARK IS LOCATED 50 FEET WEST OF CENTERLINE OF INTERSTATE BRIDGE AT ST JOSEPH. MARK IS A CHISELED SQUARE LOCATED ON THE SOUTHWEST CORNER OF CONCRETE PAD LOCATED IN THE CENTER OF THE MEDIAN. MARK IS ROUGHLY 13.5 FEET NORTH OF THE NORTH EDGE OF PAVEMENT OF THE EAST BOUND LANES ON I-74.  
 ELEV. = 672.73
- B.M. 4372-1** STATION 137+79.72 (17.0' RT)  
 CHISELED SQUARE  
 MARK IS LOCATED ON NORTHEAST WING OF STRUCTURE NO. 010-0087.  
 ELEV. = 670.405
- B.M. 4372-2** STATION 133+87.96 (243.0' RT)  
 CHISELED SQUARE  
 MARK IS LOCATED ON SOUTHWEST CORNER OF CONCRETE PIPE CULVERT WINGWALL.  
 ELEV. = 667.36

# TIE POINTS

PROPOSED S.N. 010-2028

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	44
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAILS**  
 PROPOSED S.N. 010-2028  
 F.A.S. 516/(C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY  
 SCALE: NOT TO SCALE  
 DATE: 05/15/06  
 DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.

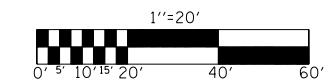
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 FILE NAME = c:\projects\vd501304 (v8)\2028details.dgn  
 PLOT SCALE = 42.3529' / IN.  
 USER NAME = piersebr



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	46
STA. 135+00.00 TO STA. 141+00.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

# EROSION CONTROL PLAN

PROPOSED S.N. 010-2028



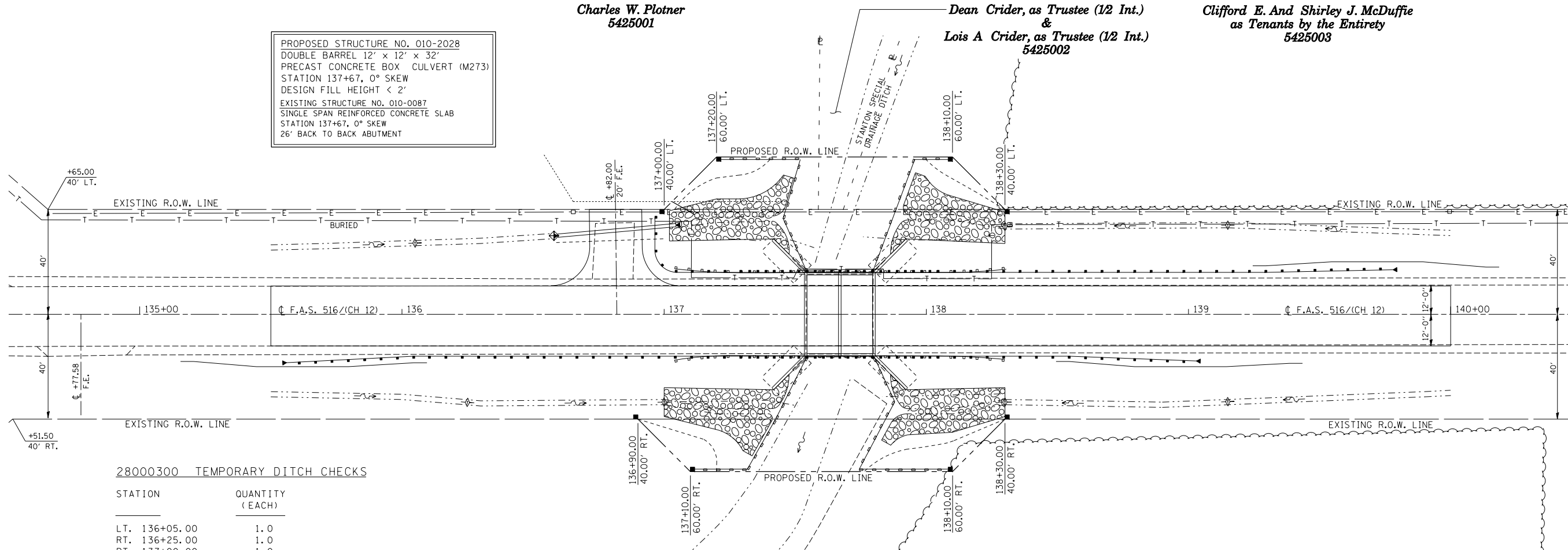
SEC. 34, T20N, R10E, 3rd. P.M.

Charles W. Plotner  
5425001

Dean Crider, as Trustee (1/2 Int.)  
&  
Lois A Crider, as Trustee (1/2 Int.)  
5425002

Clifford E. And Shirley J. McDuffie  
as Tenants by the Entirety  
5425003

PROPOSED STRUCTURE NO. 010-2028  
DOUBLE BARREL 12' x 12' x 32'  
PRECAST CONCRETE BOX CULVERT (M273)  
STATION 137+67, 0° SKEW  
DESIGN FILL HEIGHT < 2'  
EXISTING STRUCTURE NO. 010-0087  
SINGLE SPAN REINFORCED CONCRETE SLAB  
STATION 137+67, 0° SKEW  
26' BACK TO BACK ABUTMENT



**28000300 TEMPORARY DITCH CHECKS**

STATION	QUANTITY (EACH)
LT. 136+05.00	1.0
RT. 136+25.00	1.0
RT. 137+00.00	1.0
RT. 138+30.00	1.0
LT. 138+30.00	1.0
RT. 139+15.00	1.0
LT. 139+15.00	1.0
<b>TOTAL</b>	<b>= 7.0 EACH</b>

**28000500 INLET AND PIPE PROTECTION**

STATION	QUANTITY (EACH)
LT. 136+60.00	1.0
<b>TOTAL</b>	<b>= 1.0 EACH</b>

**28000400 PERIMETER EROSION BARRIER**

LOCATION (QUADRANT)	QUANTITY (FOOT)
SOUTHWEST	84.0
SOUTHEAST	76.0
NORTHWEST	70.0
NORTHEAST	84.0
<b>TOTAL</b>	<b>= 314.0 FOOT</b>

**SEEDING, CLASS 2**

STATION	TO	STATION	25000200 SEEDING (SQ FT)	25000400 NITROGEN (90.0 LB/ACRE)	25000500 PHOSPHORUS (90.0 LB/ACRE)	25000600 POTASSIUM (90.0 LB/ACRE)	25100115 MULCH (SQ FT)
RT. 135+20.00	TO	137+54.20	5,527.4	11.4	11.4	11.4	5,527.4
RT. 137+79.60	TO	140+15.00	5,557.6	11.5	11.5	11.5	5,557.6
LT. 135+40.00	TO	137+54.20	5,436.1	11.2	11.2	11.2	5,436.1
LT. 137+79.60	TO	140+15.00	5,583.8	11.5	11.5	11.5	5,583.8
<b>TOTAL</b>			<b>= 22,104.9 SQ FT</b>	<b>45.6 LB</b>	<b>45.6 LB</b>	<b>45.6 LB</b>	<b>22,104.9 SQ FT</b>
<b>USE</b>			<b>= 0.5 ACRE</b>	<b>46.0 LB</b>	<b>46.0 LB</b>	<b>46.0 LB</b>	<b>0.5 ACRE</b>

**25000350 SEEDING, CLASS 7**

(USE THE SAME AREA AS SEEDING, CLASS 2)  
TOTAL = 22,104.9 SQ FT  
USE = 0.5 ACRE

**28000250 TEMPORARY EROSION CONTROL SEEDING**

APPLICATION RATE = 100 LB/ACRE  
(USE THE SAME AREA AS SEEDING, CLASS 2)  
TOTAL = 51.0 LB

**LEGEND**

	TEMPORARY DITCH CHECK
	INLET & PIPE PROTECTION
	PERIMETER EROSION BARRIER
	STONE RIPRAP, CLASS A-4

**SEEDING PAY LIMITS:**

SEEDING LIMITS SHALL BE DEFINED AS AREAS OF EARTH SLOPES WHICH ARE DISTURBED AS SHOWN ON THE STATION CROSS SECTIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL PLAN**  
**PROPOSED S.N. 010-2028**  
F.A.S. 516/(C.H. 12)  
SECTION 241BR & 56BR  
CHAMPAIGN COUNTY

SCALE: 1" = 20'  
DATE: 05/15/06  
DRAWN BY: B.B.P.  
CHECKED BY: G.A.E.

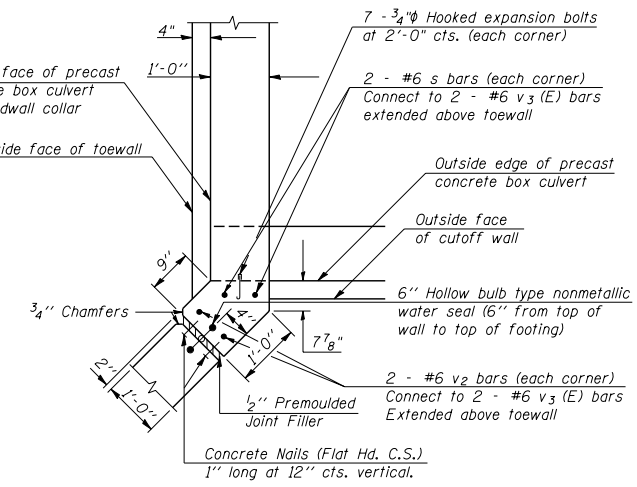
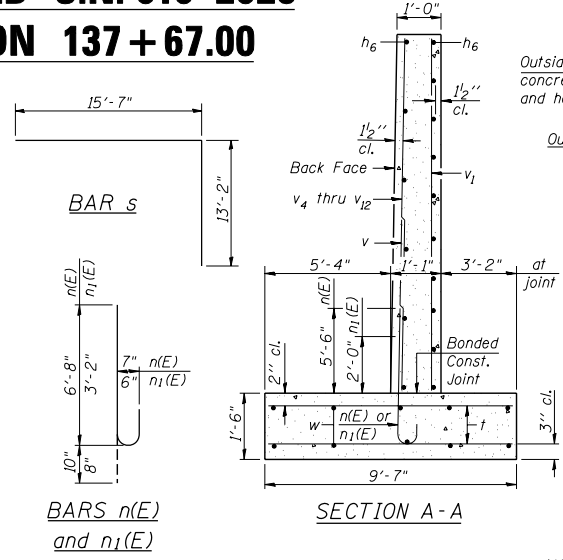
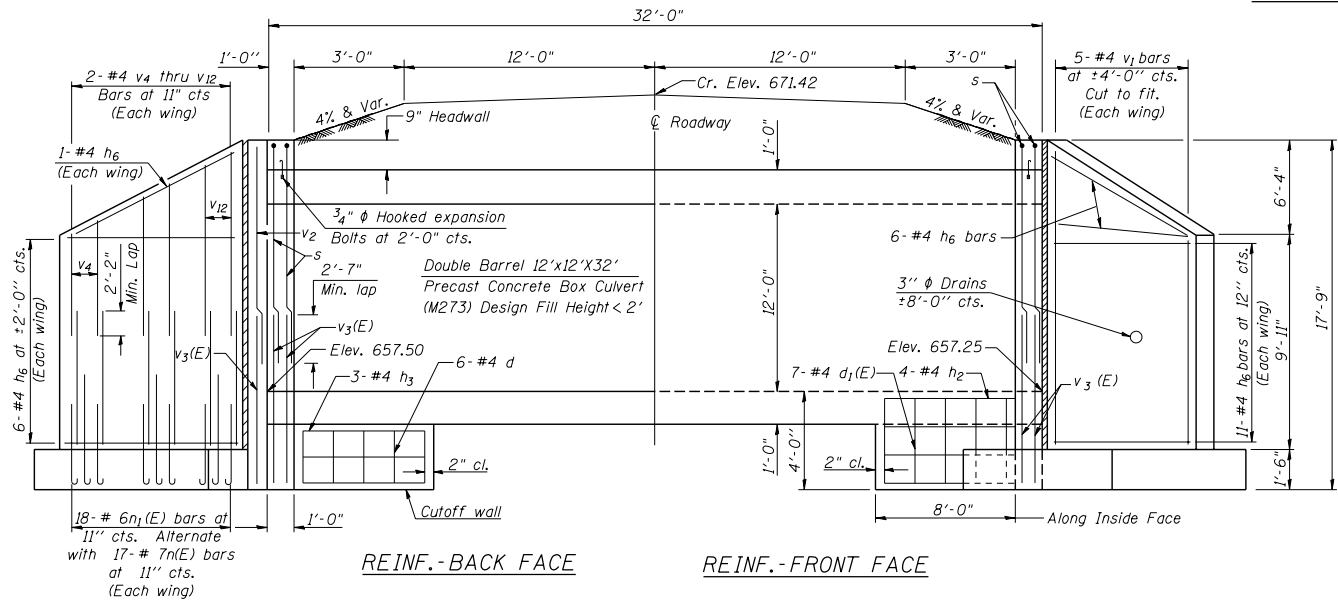


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# DETAIL OF CAST IN PLACE BOX CULVERT END SECTION

## PROPOSED S.N. 010-2028

### STATION 137+67.00



**CAST-IN-PLACE CORNER DETAIL FOR HEADWALL COLLAR**

**NOTES**

- All bars should be rounded and shall conform to the requirements of Art. 1006.10 of Standard Specs.
- Class SI Concrete shall be used throughout.
- The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M273.
- Reinforcement bars designated (E) shall be epoxy coated.
- All construction joints shall be bonded.
- Expansion bolts shall be 3/4" hooked bolts. Hooked bolts shall extend 6" into concrete collar. The cost of the bolts shall be included in the cost of Box Culvert End Section.
- All dimensions are in FEET (')-INCHES (") unless otherwise noted.
- Concrete and Rebar quantities and lengths calculated for the cast-in-place End Sections will vary based on the precast box culverts supplied.
- End Sections will be paid for at the contract unit price each for BOX CULVERT END SECTION, as outlined in Art. 540.08, which prices shall include all concrete, rebar, and all other items necessary to complete the proposed work.
- Drain holes shall be provided in accordance with Art. 503.12.
- voids between the Precast Concrete Box Culvert and the Cast-in-place toewall / cutoff wall shall be filled with Non-shrink grout.
- Drawings not to scale.

STATION 137+67.00  
BUILT - - - BY  
STATE OF ILLINOIS  
F.A.S. RTE. 516 SEC. 56BR  
LOADING HS 20-44  
STR. NO. 010-2028

**NAME PLATE**

- See Highway Standard 515001-02 for dimensions and placement.
- Name Plate will be paid for at the contract unit price per "EACH" for "NAME PLATES".

**DESIGN STRESSES**

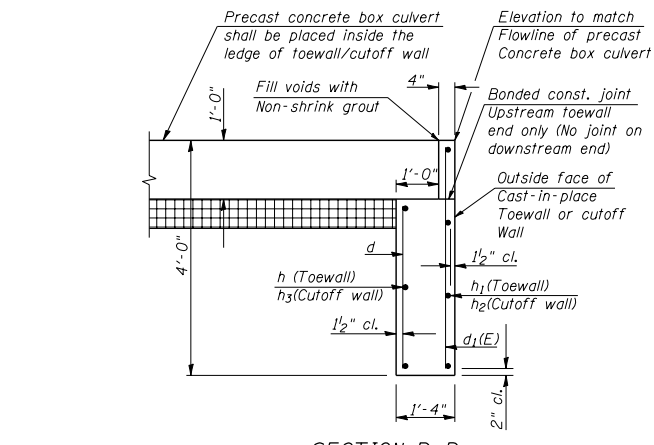
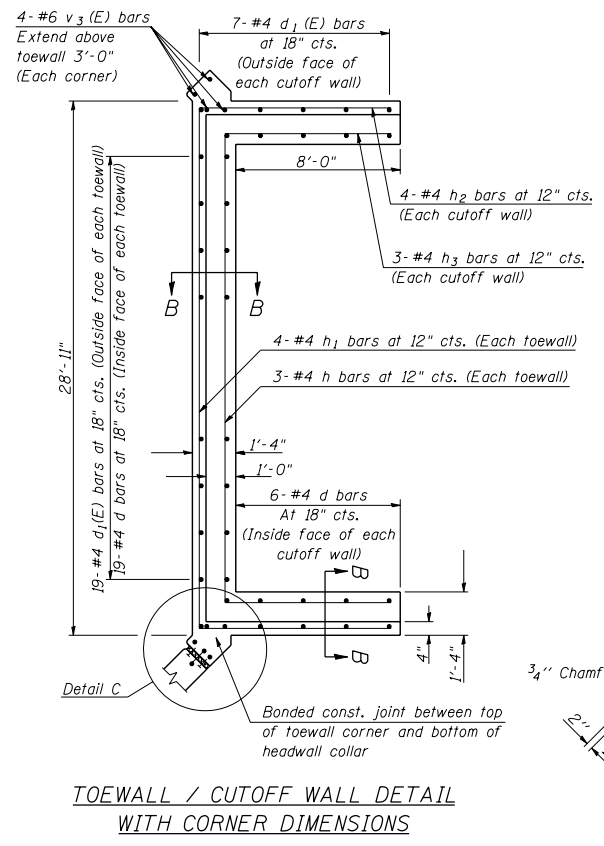
$f_y = 60,000 \text{ psi}$   
 $f'_c = 3,500 \text{ psi}$

Max. Soil Pressure  
under footing = 3,522 psi

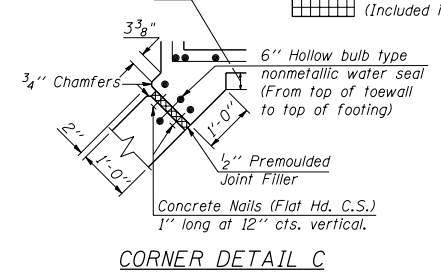
LOADING HS 20-44

**BILL OF MATERIAL (ONE END SECTION)**

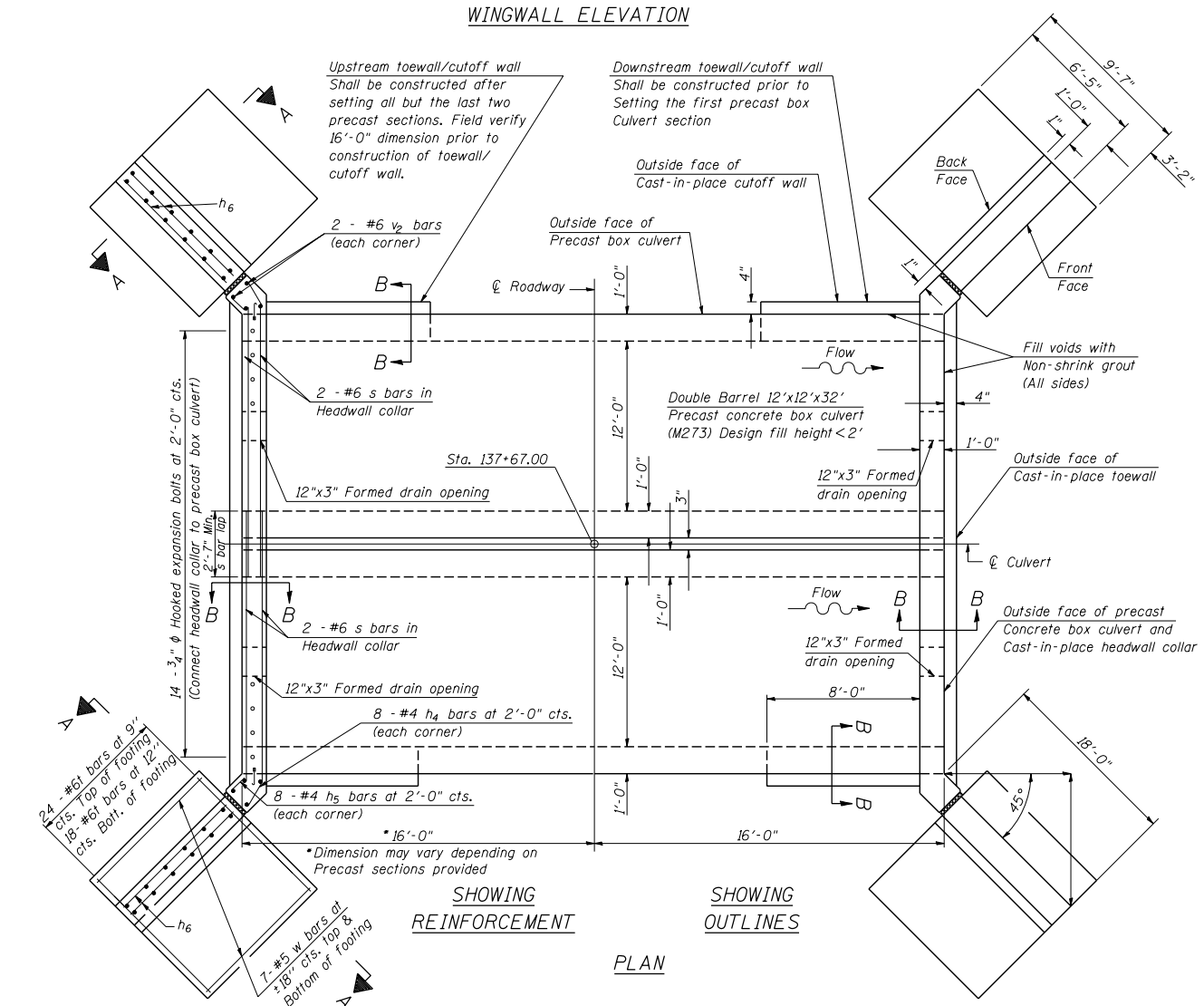
Bar	No.	Size	Length	Shape
d	31	#4	2'-8"	
d1(E)	33	#4	3'-8"	
h	3	#4	27'-3"	
h1	4	#4	28'-8"	
h2	8	#4	8'-9"	
h3	6	#4	8'-0"	
h4	16	#4	1'-2"	
h5	16	#4	9"	
h6	48	#4	16'-11"	
n(E)	34	#7	7'-6"	
n1(E)	36	#6	3'-10"	
s	4	#6	28'-9"	
t	84	#6	9'-4"	
v	36	#5	7'-9"	
v1	10	#4	15'-11"	
v2	4	#6	12'-9"	
v3(E)	8	#6	6'-10"	
v4	4	#4	4'-8"	
v5	4	#4	5'-4"	
v6	4	#4	6'-0"	
v7	4	#4	6'-8"	
v8	4	#4	7'-4"	
v9	4	#4	8'-0"	
v10	4	#4	8'-8"	
v11	4	#4	9'-4"	
v12	4	#4	10'-0"	
w	28	#5	16'-11"	
<b>Concrete/End Section</b>				
Reinforcement Bars, Epoxy Coated			Cu. Yd.	46.0
Reinforcement Bars			Pound	892.0
Expansion Bolt 3/4" #			Pound	3,323.0
			Each	28.0
<b>Item</b>				
Box Culvert End Section			Unit	Oty.
			Each	2.0



**SECTION B-B TOEWALL/CUTOFF WALL DETAIL ONLY (SIDE WALL OF PRECAST BOX CULVERT NOT SHOWN)**



**CORNER DETAIL C**



PLOT DATE = 7/6/2006  
FILE NAME = c:\projects\050304 (v8)\70359endsection.dgn  
USER NAME = piersonbr

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BOX CULVERT END SECTION DETAIL**  
**PROPOSED S.N. 010-2028**  
F.A.S. 516/(C.H. 12)  
SECTION 241BR & 56BR  
CHAMPAIGN COUNTY

SCALE: NOT TO SCALE  
DATE: 06/15/06

DRAWN BY: B.B.P.  
CHECKED BY: G.A.E.

# SOIL BORING LOG

PROPOSED S.N. 010-2028

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	48
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Illinois Department of Transportation  
Division of Highways  
IDOT - Dist 6

## SOIL BORING LOG

Page 1 of 1

Date 10/16/02

ROUTE CH 12 (2150E) DESCRIPTION 2.2 Miles North of St. Joseph LOGGED BY DWP

SECTION 56BR LOCATION NW, SEC. 35, TWP. 20N, RNG. 10E, 3rd PM

COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 010-0087	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
Station 137+67	E	L	C	O	Stream Bed Elev.	660.3	E	L	C	O
	P	O	S	I			P	O	S	I
BORING NO. 1 NE Boring	T	W	S	S	Groundwater Elev.:		T	W	S	S
Station 137+89	H	S	Qu	T	First Encounter	653.7	H	S	Qu	T
Offset 24.0 ft Rt.					Upon Completion					
Ground Surface Elev. 667.7	(ft)	(6")	(taf)	(%)	After	Hrs.	(ft)	(6")	(taf)	(%)

Brown Mottled Loam (Backfill)	687.7				Gray Sandy Clay Loam Till (continued)					
					Drilled Through Boulder					
		5					4			
		7		15			8	5.8		9
		-5	6				11	B		
					End of Boring	642.7	-26			
Gray Fine Sand & Silt Mixed	682.2									
		3								
		2		24						
		3								
Gray Clay Loam Till with Small Sand Lenses	659.7									
		3								
		7	6.6	10						
		-10	B							
		6								
		9	7.8	10						
		13	B							
		6								
		8		11						
		7								
Gray Silty Clay Loam Till	652.7									
		2								
		3	0.6	12						
		4	B							
Gray Sandy Clay Loam Till	650.2									
		4								
		6	6.2	11						
		7	B							
		-20								

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

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
IDOT - Dist 6

## SOIL BORING LOG

Page 1 of 1

Date 10/16/02

ROUTE CH 12 (2150E) DESCRIPTION 2.2 Miles North of St. Joseph LOGGED BY CNA

SECTION 56BR LOCATION NW, SEC. 35, TWP. 20N, RNG. 10E, 3rd PM

COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 010-0087	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
Station 137+67	E	L	C	O	Stream Bed Elev.	660.3	E	L	C	O
	P	O	S	I			P	O	S	I
BORING NO. 2 SW Boring	T	W	S	S	Groundwater Elev.:		T	W	S	S
Station 137+51	H	S	Qu	T	First Encounter	647.4	H	S	Qu	T
Offset 11.0 ft Lt.					Upon Completion					
Ground Surface Elev. 670.4	(ft)	(6")	(taf)	(%)	After	Hrs.	(ft)	(6")	(taf)	(%)

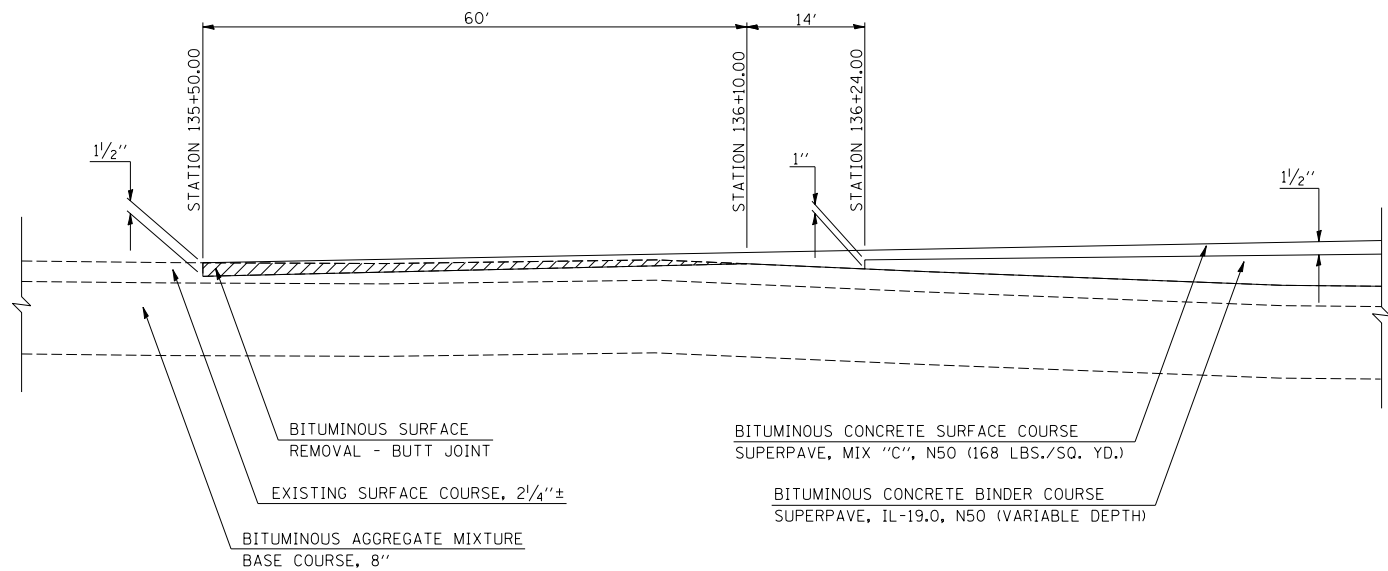
Brown/Gray Mottled Clay Loam to Loam (Backfill)	670.4				Gray Silty Clay Loam Till (continued)					
					Sand & Silt Lenses					
		1								
		2	3.1	13						
		3	B							
		-5								
Black & Green Mottled Silty Clay Loam	665.4									
		1								
		2	1.3	62						
		3	B							
		1								
		2	1.2	20						
		3	B							
		-10								
Brown Mottled Clay Loam	660.4									
		1								
		3	2.3	10						
		4	B							
		1								
		6	4.2	12						
		8	S							
		-15								
		3								
		6	5.7	4						
		9	S							
		2								
		4	3.1	11						
		5	S							
		-20								

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

BBS, from 137 (Rev. 8-99)

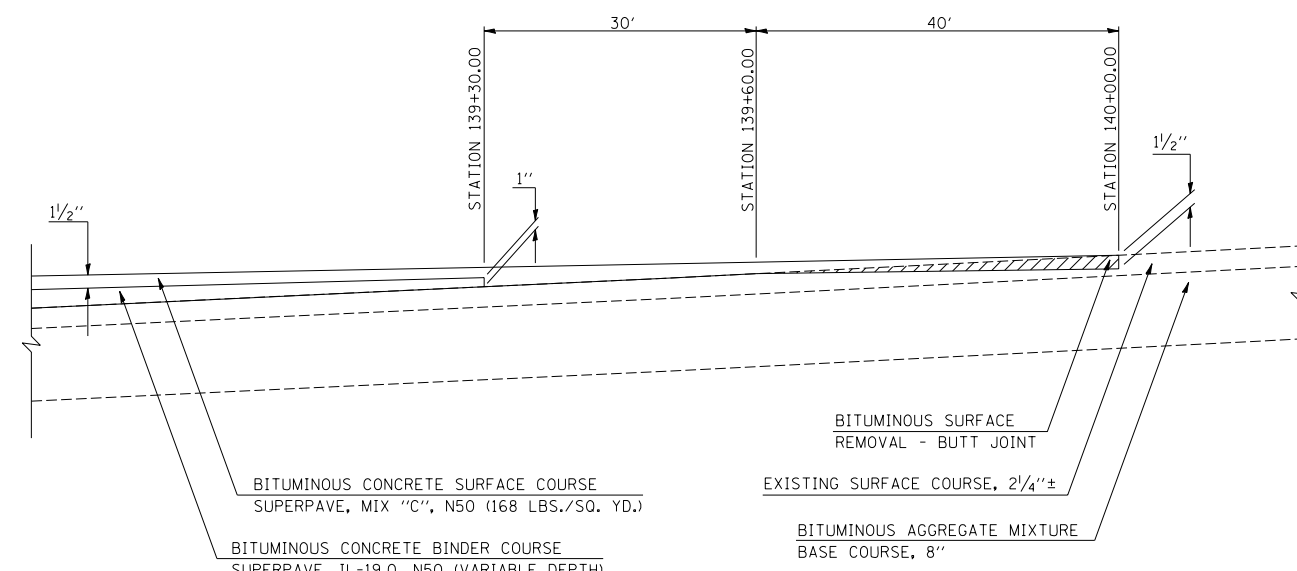
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

### BUTT JOINT DETAIL AT PROPOSED S.N. 010-2028 STATION 135 + 50.00



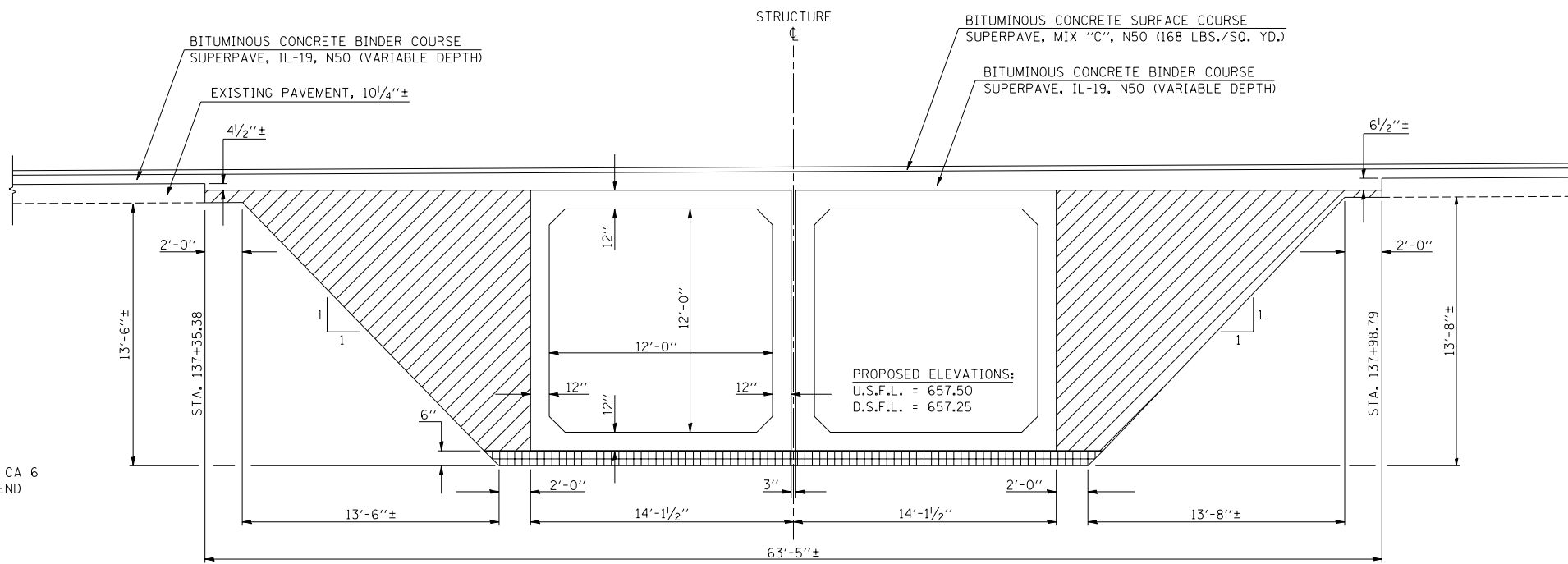
BITUMINOUS SURFACE REMOVAL - BUTT JOINT

### BUTT JOINT DETAIL AT PROPOSED S.N. 010-2028 STATION 140 + 00.00



BITUMINOUS SURFACE REMOVAL - BUTT JOINT

### DETAIL OF POROUS GRANULAR BACKFILL AT PROPOSED STRUCTURE NO. 010-2028 STATION 137 + 67.00



PAY LIMITS OF POROUS GRANULAR BACKFILL - CA 6  
NOTE: POROUS GRANULAR BACKFILL SHALL EXTEND 16'-0" EACH SIDE OF F.A.S. 516 CENTERLINE

POROUS GRANULAR MATERIAL - CA 7 (6")  
(INCLUDED IN PAY ITEM FOR PRECAST BOX CULVERT)

PROPOSED ELEVATIONS:  
U.S.F.L. = 657.50  
D.S.F.L. = 657.25

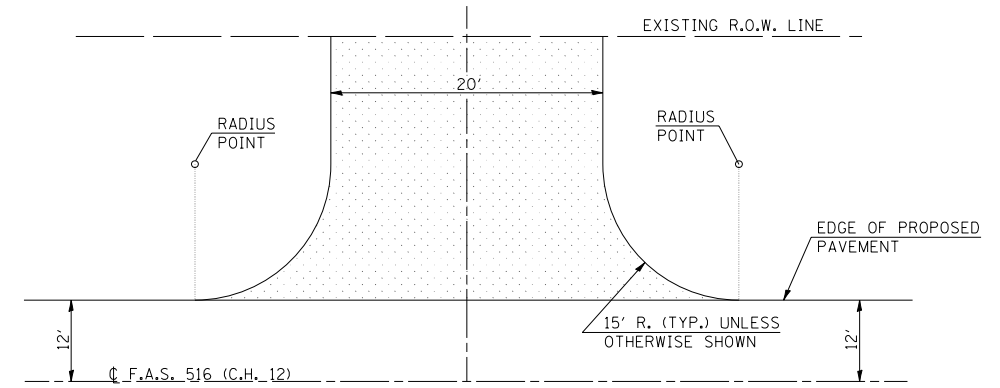
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DETAILS  
PROPOSED S.N. 010-2028  
F.A.S. 516/(C.H. 12)  
SECTION 241BR & 56BR  
CHAMPAIGN COUNTY  
SCALE: NOT TO SCALE  
DATE: 05/15/06  
DRAWN BY: B.B.P.  
CHECKED BY: G.A.E.

PLOT DATE = 7/6/2006  
FILE NAME = c:\projects\516\2028\details.dgn  
PLOT SCALE = 42.3529' / IN.  
USER NAME = piersebr

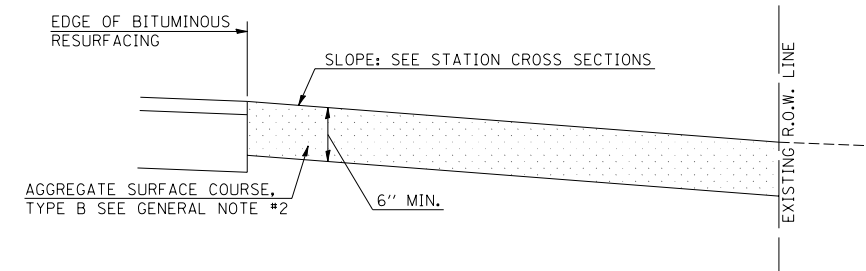
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	50
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TYPICAL DETAIL OF RURAL FIELD ENTRANCES

PROPOSED S.N. 010-2028



PLAN



PROFILE

### GENERAL NOTES

1. THE PROPOSED SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 402 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE SURFACE COURSE, TYPE B OF THE THICKNESS SPECIFIED IN THE PLANS, (6" MIN.) SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCE.
3. ANY NECESSARY WORK BEHIND THE EDGE OF SHOULDER SHALL BE AS SHOWN IN THE PLANS AND/OR DIRECTED BY THE ENGINEER. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE, TYPE B.
4. ENTRANCE SIDESLOPES SHALL BE CONSTRUCTED TO 1:4 SLOPES, UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

**DETAILS**  
**PROPOSED S.N. 010-2028**

F.A.S. 516/(C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY

SCALE: NOT TO SCALE  
 DATE: 05/15/06

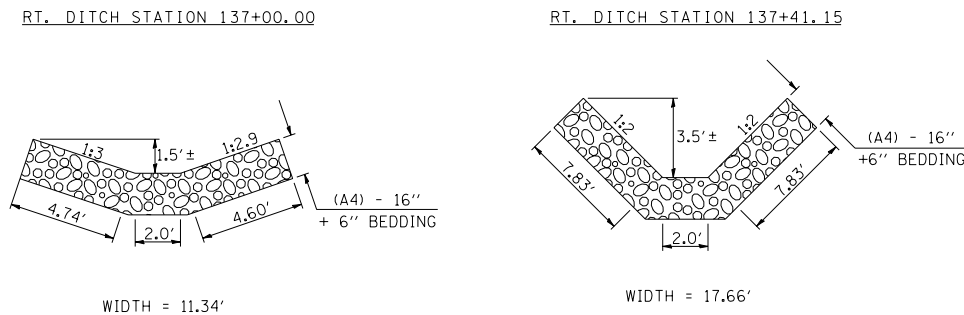
DRAWN BY: B.B.P.  
 CHECKED BY: G.A.E.

# RIPRAP - DETAILS, PAY LIMITS AND QUANTITIES

PROPOSED S.N. 010-2028

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

## RT. DITCH STATION 137+00.00 TO 137+41.15

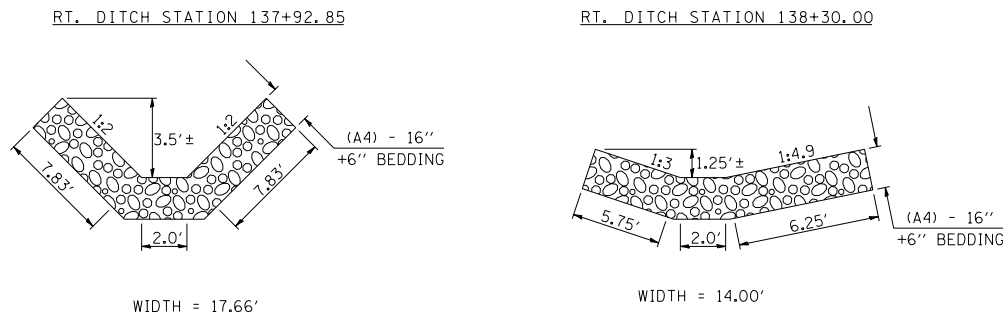


TRANSITION CHANNEL GEOMETRY BETWEEN  
RT. STA. 137+00.00 & RT. STA. 137+41.15

### STONE RIPRAP, CLASS A4

STATION	TO	STATION	LENGTH (FT)	AVERAGE WIDTH (FT)	AREA (SQ YD)
137+00.00		137+41.15	41.15	14.50	66.30
WINGWALL			10.50	3.91	4.56
STREAM BACKSLOPE			11.50	7.83	10.01
TOTAL			=		80.87 SQ YD

## RT. DITCH STATION 137+92.85 TO 138+30.00

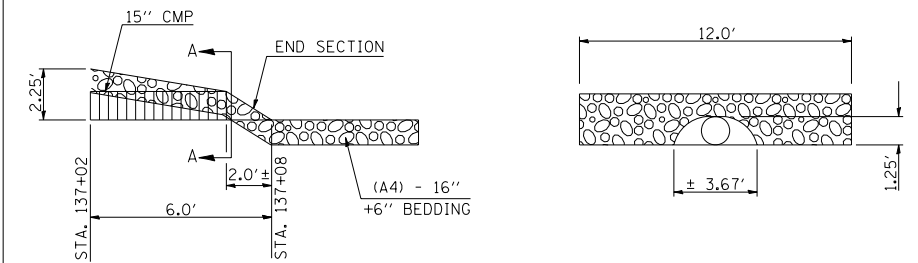


TRANSITION CHANNEL GEOMETRY BETWEEN  
RT. STA. 137+92.85 & RT. STA. 138+30.00

### STONE RIPRAP, CLASS A4

STATION	TO	STATION	LENGTH (FT)	AVERAGE WIDTH (FT)	AREA (SQ YD)
137+92.85		138+30.00	37.15	15.83	65.34
WINGWALL			10.50	3.91	4.56
STREAM BACKSLOPE			11.50	7.83	10.01
TOTAL			=		79.91 SQ YD

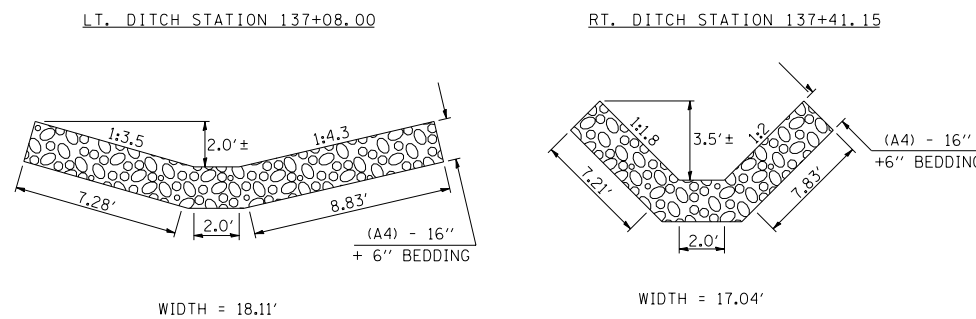
## EROSION CONTROL AT ENTRANCE CULVERT LT. STA. 136+06.00



ENTRANCE CULVERT

SECTION A-A

## LT. DITCH STATION 137+02.00 TO 137+41.15

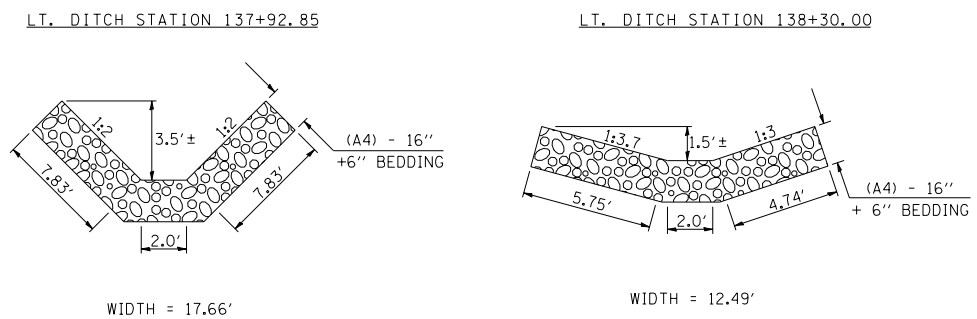


TRANSITION CHANNEL GEOMETRY BETWEEN  
LT. STA. 137+02.00 & LT. STA. 137+41.15

### STONE RIPRAP, CLASS A4

STATION	TO	STATION	LENGTH (FT)	AVERAGE WIDTH (FT)	AREA (SQ YD)
137+02.00		137+08.00	6.00	12.00	8.00
137+08.00		137+41.15	33.15	17.58	64.75
WINGWALL			10.50	3.91	4.56
STREAM BACKSLOPE			11.50	7.83	10.01
TOTAL			=		87.32 SQ YD

## LT. DITCH STATION 137+92.85 TO 138+30.00

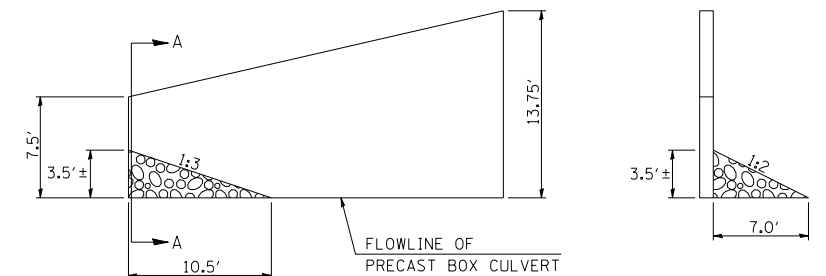


TRANSITION CHANNEL GEOMETRY BETWEEN  
LT. STA. 137+92.85 & RT. STA. 138+30.00

### STONE RIPRAP, CLASS A4

STATION	TO	STATION	LENGTH (FT)	AVERAGE WIDTH (FT)	AREA (SQ YD)
137+92.85		138+30.00	37.15	15.08	62.25
WINGWALL			10.50	3.91	4.56
STREAM BACKSLOPE			11.50	7.83	10.01
TOTAL			=		76.82 SQ YD

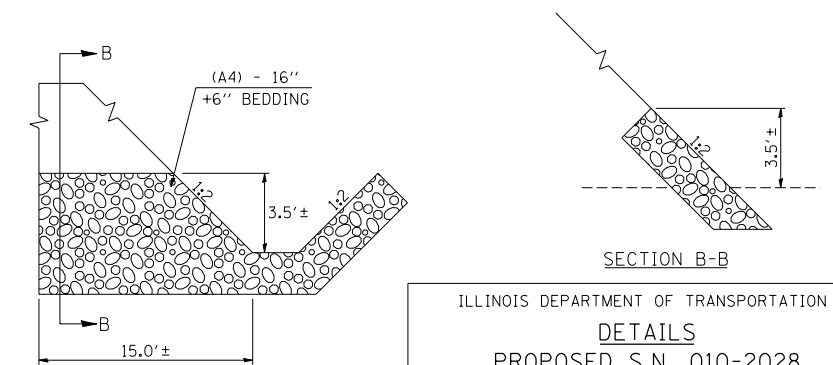
## RIPRAP EROSION CONTROL AT WINGWALLS (TYPICAL)



WINGWALL (TYP.)

SECTION A-A

## RIPRAP EROSION CONTROL AT STREAM BACKSLOPE (TYPICAL)



STREAM BACKSLOPE (TYP.)

SECTION B-B

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAILS**  
PROPOSED S.N. 010-2028  
F.A.S. 516/(C.H. 12)  
SECTION 241BR & 56BR  
CHAMPAIGN COUNTY

SCALE: NOT TO SCALE  
DATE: 05/15/06  
DRAWN BY: B.B.P.  
CHECKED BY: G.A.E.



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

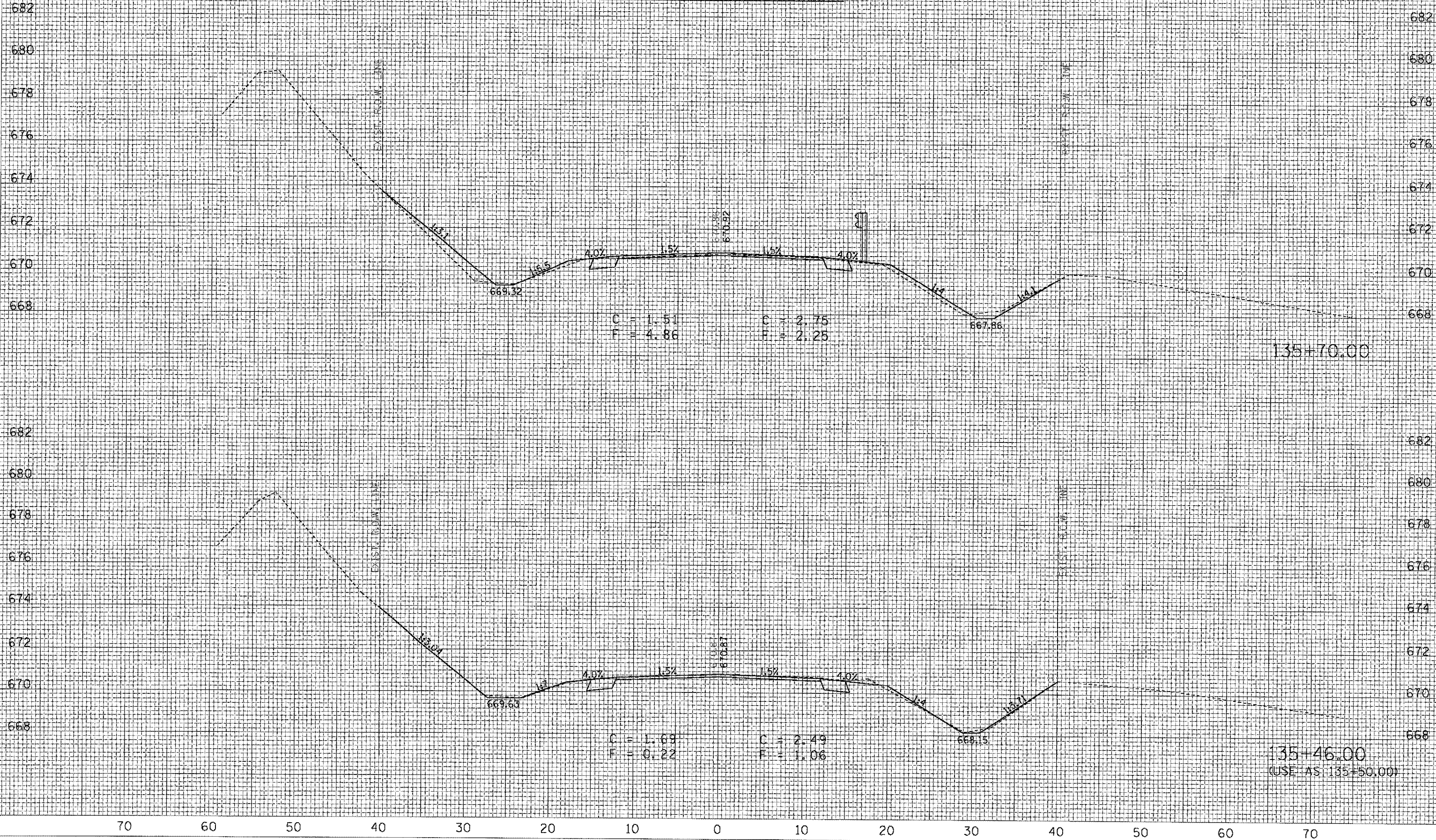
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

F.A.S. 516		SECTION 241BR & 56BR		COUNTY CHAMPAIGN		TOTAL SHEETS 82		SHEET NO. 52	
STA. 135+46.00				TO STA. 135+70.00					
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT					

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLotted	
AREAS CHECKED	

PLOT DATE = 7/6/2008  
 FILE NAME = c:\projects\4501304\1v8\12028\4501304.dwg  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = pier.sombir



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70











70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

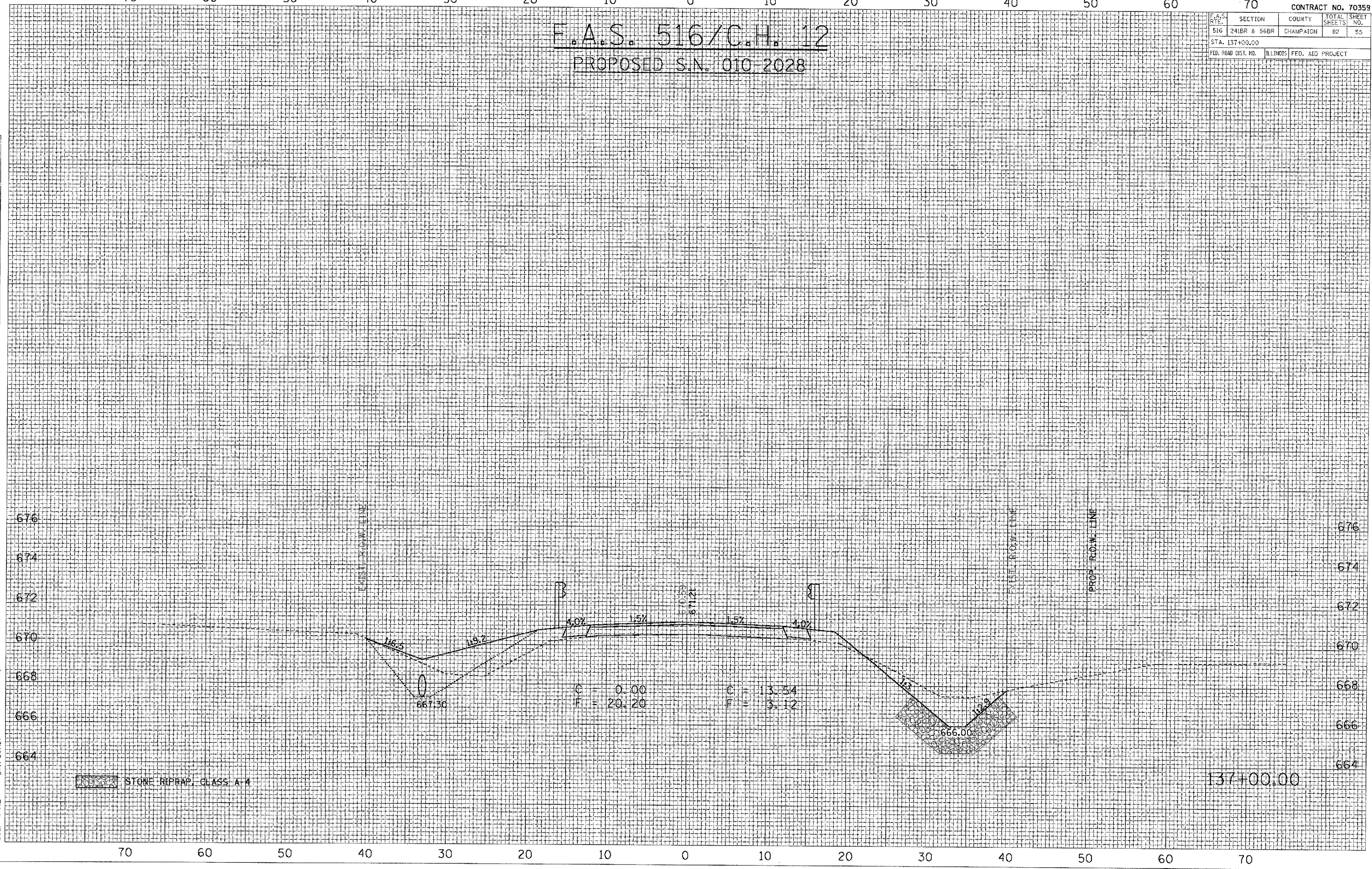
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

F.A.S. RYE		CONTRACT NO. 70359	
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516 241BR & 56BR	CHAMPAIGN	82	55
STA. 137+00.00			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

PLOT DATE = 7/5/2006  
 FILE NAME = c:\projects\4501304\198\2028\137+00.00.dwg  
 PLOT SCALE = 10.3882' / IN.  
 USER NAME = piercebor



STONE RIPRAP, CLASS A-4

137+00.00

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70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

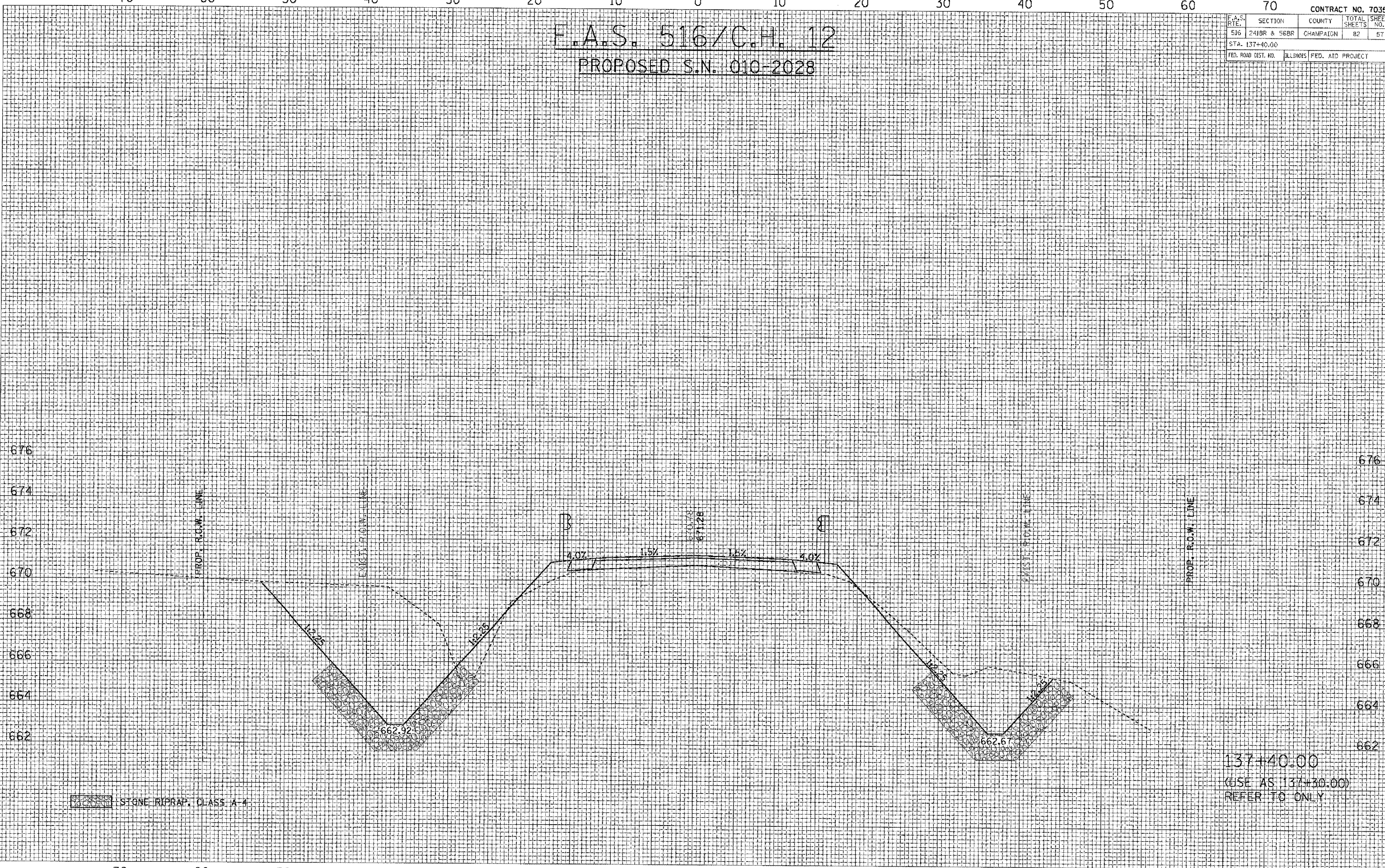
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

CONTRACT NO. 70359				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	57
STA. 137+40.00				
ILLINOIS FED. AID PROJECT				

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\450104 (v8)\2028\sn010-2028.dwg  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = pierston



STONE RIPRAP, CLASS A-4

137+40.00  
 (USE AS 137+30.00)  
 REFER TO ONLY

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70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

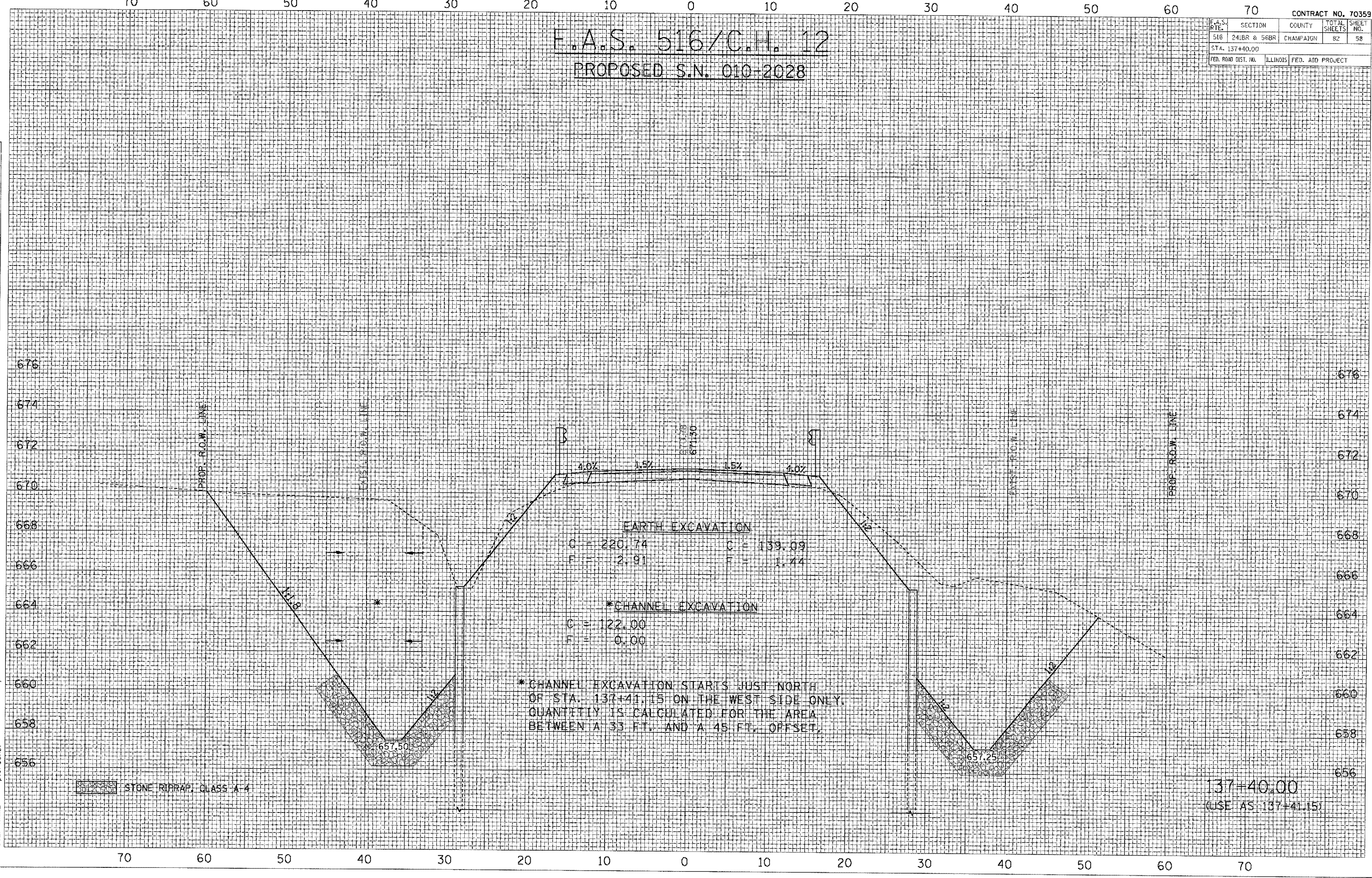
CONTRACT NO. 70359				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	58
STA. 137+40.00				
ILLINOIS FED. AID PROJECT				

E.A.S. 516/C.H. 12  
PROPOSED S.N. 010-2028

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\vd01304 (v8)\2028xs.  
 PLOT SCALE = 10.59827 / IN.  
 USER NAME = pler-sonbr



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

CONTRACT NO. 70359

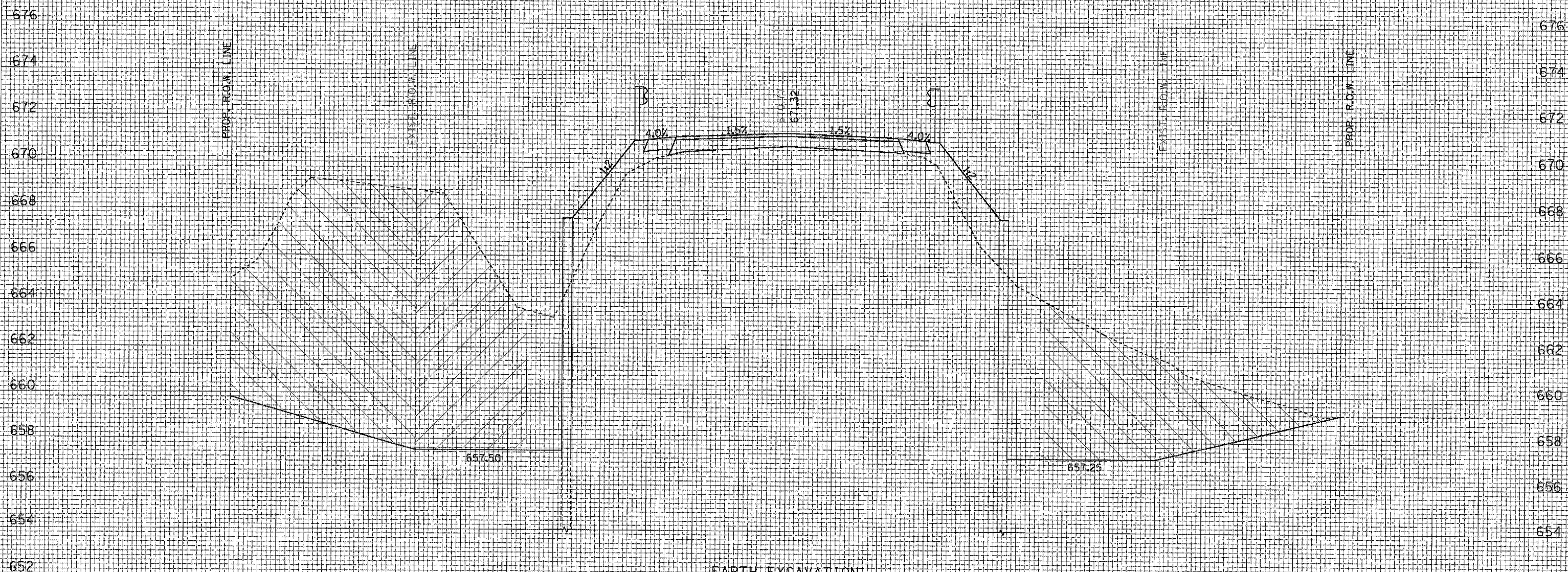
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	59
STA. 137+48.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

F.A.S. 516/C.H. 12  
PROPOSED S.N. 010-2028

DATE	BY

DATE	BY

PLOT DATE = 7/6/2006  
FILE NAME = c:\projects\501304 (v8)\2028\sn010\2028.snr  
PLOT SCALE = 10.5882 / / IN.  
USER NAME = p1er2onbr



**EARTH EXCAVATION**  
C = 0.00      C = 0.00  
F = 13.13     F = 13.59

**CHANNEL EXCAVATION**  
C = 109.38     C = 0.00  
F = 0.00       F = 0.00

CHANNEL EXCAVATION  
 CHANNEL EXCAVATION CALCULATED ON STREAM CROSS SECTIONS

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

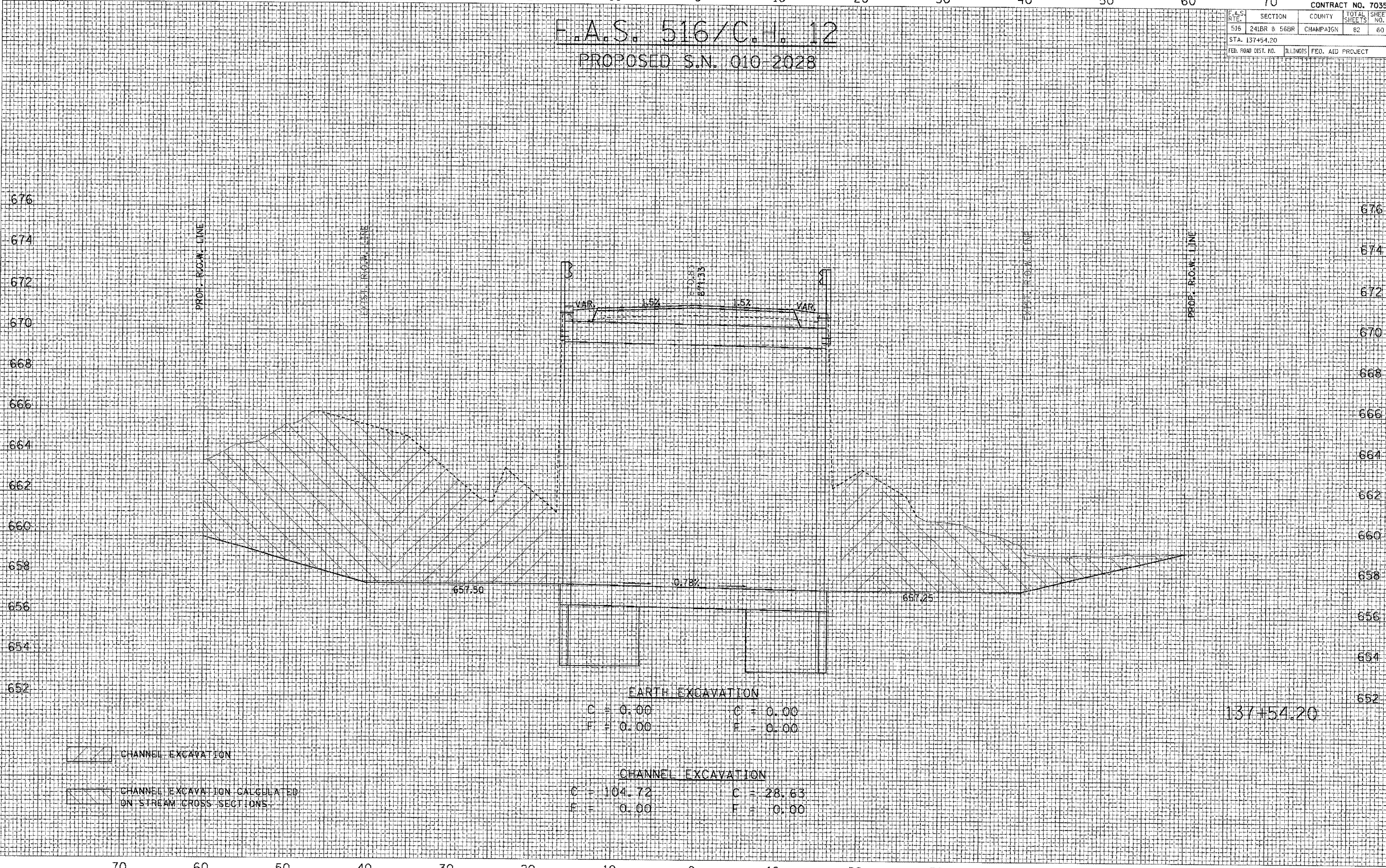
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

CONTRACT NO. 70359	
F.A.S. RTE. 516	SECTION 241BR & 568R
COUNTY CHAMPAIGN	TOTAL SHEETS 82
STA. 137+54.20	SHEET NO. 60
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

PLOT DATE = 7/6/2006  
 FILE NAME = c:\pfr\objects\4501304 (v8)\12028\60.dwg  
 PLOT SCALE = 10.5882 / IN.  
 USER NAME = pfer-sonbr



EARTH EXCAVATION  
 C = 0.00      C = 0.00  
 F = 0.00      F = 0.00

CHANNEL EXCAVATION  
 C = 104.72      C = 28.63  
 F = 0.00      F = 0.00

CHANNEL EXCAVATION  
 CHANNEL EXCAVATION CALCULATED ON STREAM CROSS SECTIONS

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

CONTRACT NO. 70359

F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

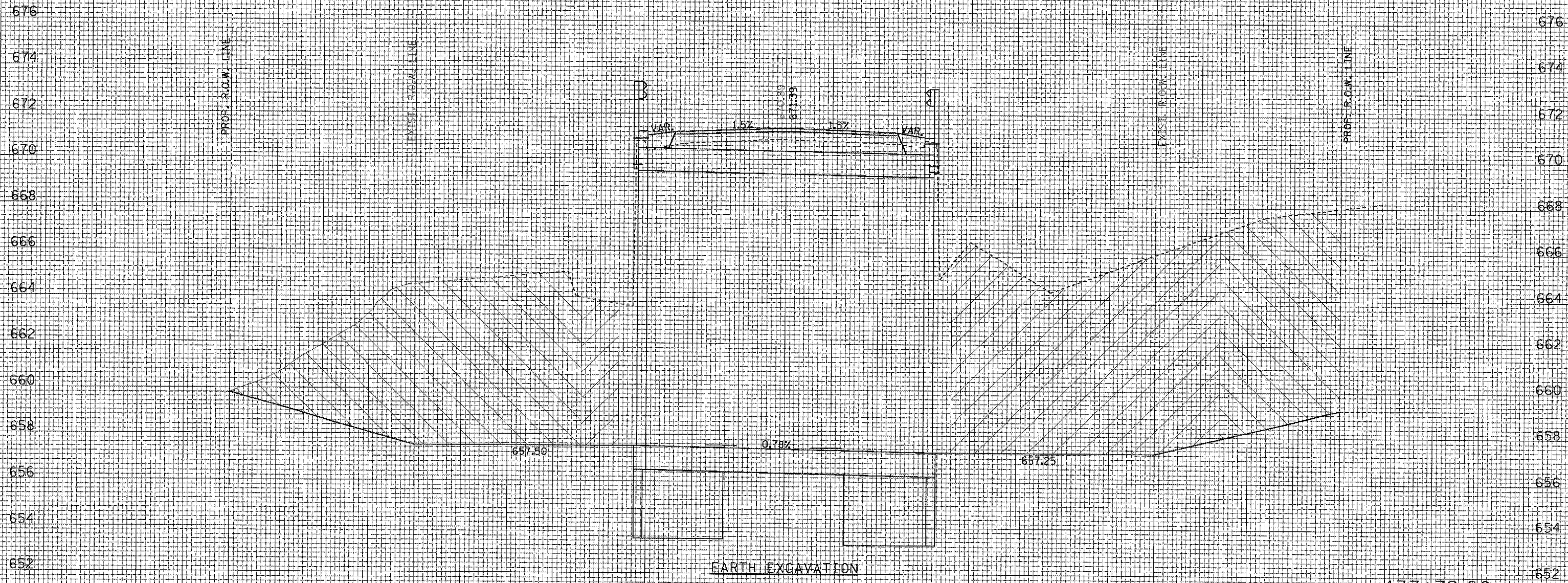
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516 241BR & 56BR	CHAMPAIGN	82	61

STA. 137+79.60 TO STA.  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

FINAL SURVEY	DATE
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
AREAS CHECKED	

PLOT DATE = 7/6/2006  
 FILE NAME = G:\projects\4501304\4501304\2028\sn010\sn010.dwg  
 PLOT SCALE = 10.56882 / IN.  
 USER NAME = pfer-sondr



**EARTH EXCAVATION**  
 C = 0.00      C = 0.00  
 F = 0.00      F = 0.00

**CHANNEL EXCAVATION**  
 C = 25.44      C = 238.77  
 F = 0.00      F = 0.00

CHANNEL EXCAVATION  
 CHANNEL EXCAVATION CALCULATED ON STREAM CROSS SECTIONS

137+79.60

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

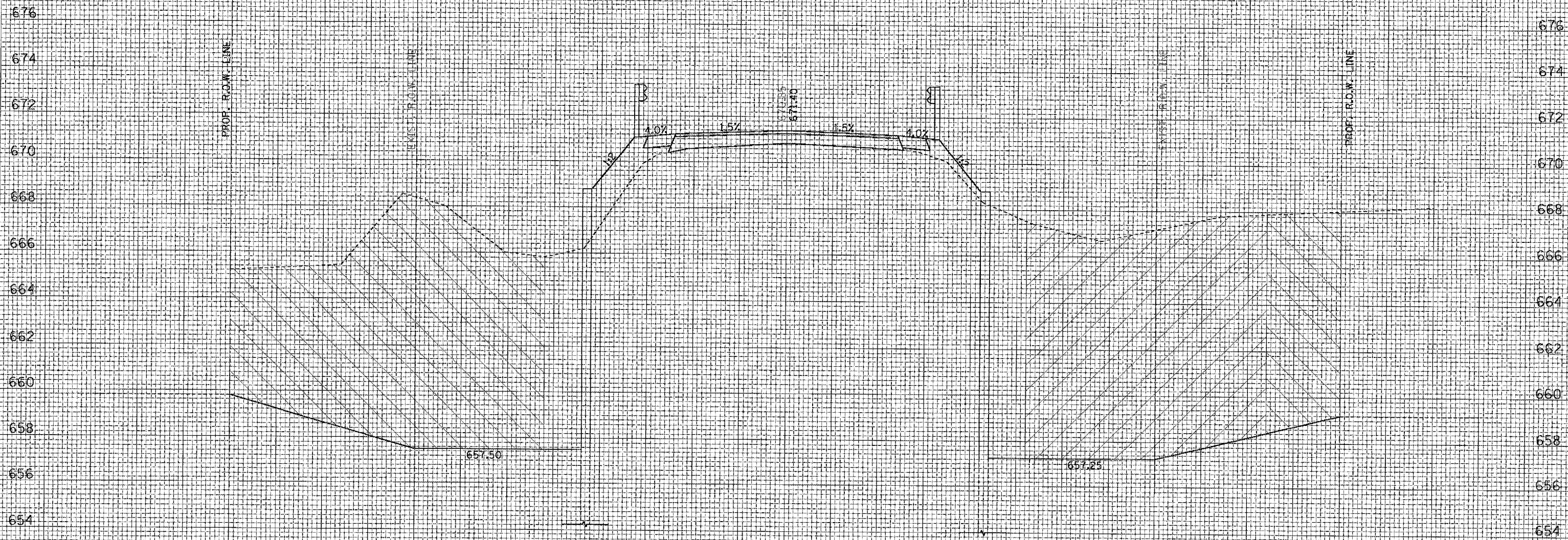
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

CONTRACT NO. 70359	
F.A.S. NO.	SECTION
516	241BR & 56BR
COUNTY	TOTAL SHEETS
CHAMPAIGN	62
NO.	62
STA. 137+84.60	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\501304\501304 (v8)12028x.s  
 PLOT SCALE = 10.5882 / 1 IN.  
 USER NAME = pier-sonbr



EARTH EXCAVATION	
C = 0.00	C = 0.00
F = 11.26	F = 3.52
CHANNEL EXCAVATION	
C = 0.00	C = 254.57
F = 0.00	F = 0.00

 CHANNEL EXCAVATION  
 CHANNEL EXCAVATION CALCULATED ON STREAM CROSS SECTIONS

137+84.60

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

CONTRACT NO. 70359

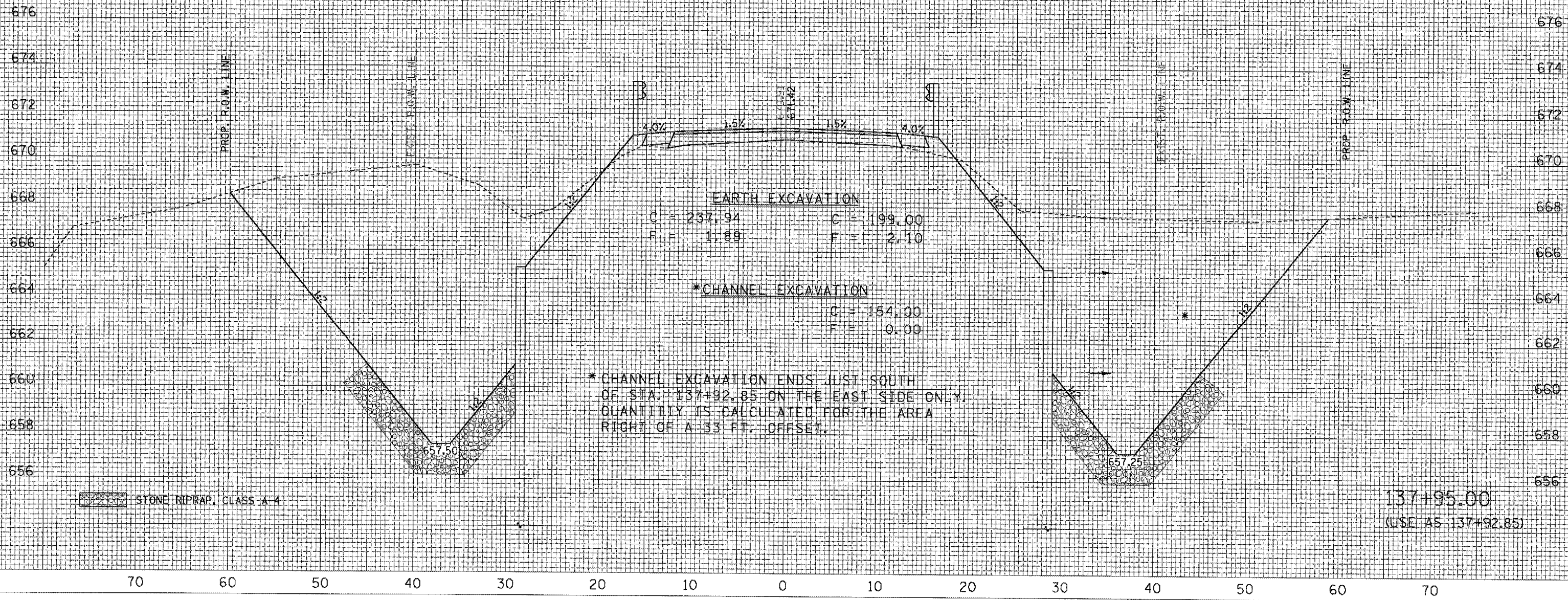
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	63
STA. 137+95.00				
ILLINOIS FED. AID PROJECT				

DATE	BY

DATE	BY

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\50304 (v8)\2028xs  
 PLOT SCALE = 10.5882' / IN.  
 USER NAME = pierisonbr



**EARTH EXCAVATION**  
 C = 237.94      C = 199.00  
 F = 1.89        F = 2.10

**\*CHANNEL EXCAVATION**  
 C = 154.00  
 F = 0.00

\* CHANNEL EXCAVATION ENDS JUST SOUTH OF STA. 137+92.85 ON THE EAST SIDE ONLY. QUANTITY IS CALCULATED FOR THE AREA RIGHT OF A 33 FT. OFFSET.

137+95.00  
 (USE AS 137+92.85)

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



PLOT DATE = 7/6/2006  
 FILE NAME = G:\p\0\j8c1s\450304 (v8)\2026x.s  
 PLOT SCALE = 10.5682' / IN.  
 USER NAME = p1er-sondy

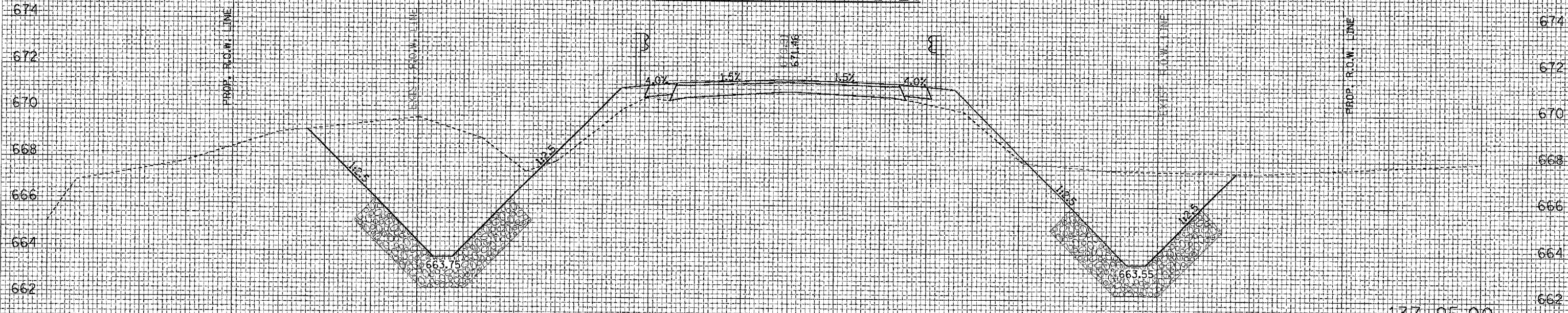
ORIGINAL SURVEY PLOTTED FROM DATE AREAS CHECKED BY

FINAL SURVEY PLOTTED FROM DATE AREAS CHECKED BY

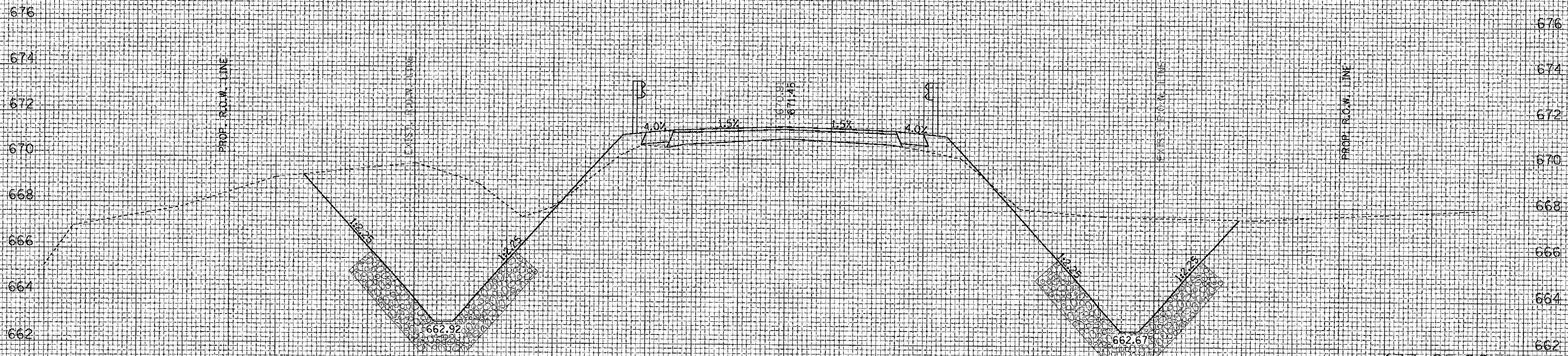
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

CONTRACT NO. 70359				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	64
STA. 137+95.00				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



137+95.00  
 (USE AS 138+10.00)  
 REFER TO ONLY



137+95.00  
 (USE AS 138+04.00)  
 REFER TO ONLY

STONE RIPRAP, CLASS A-4

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

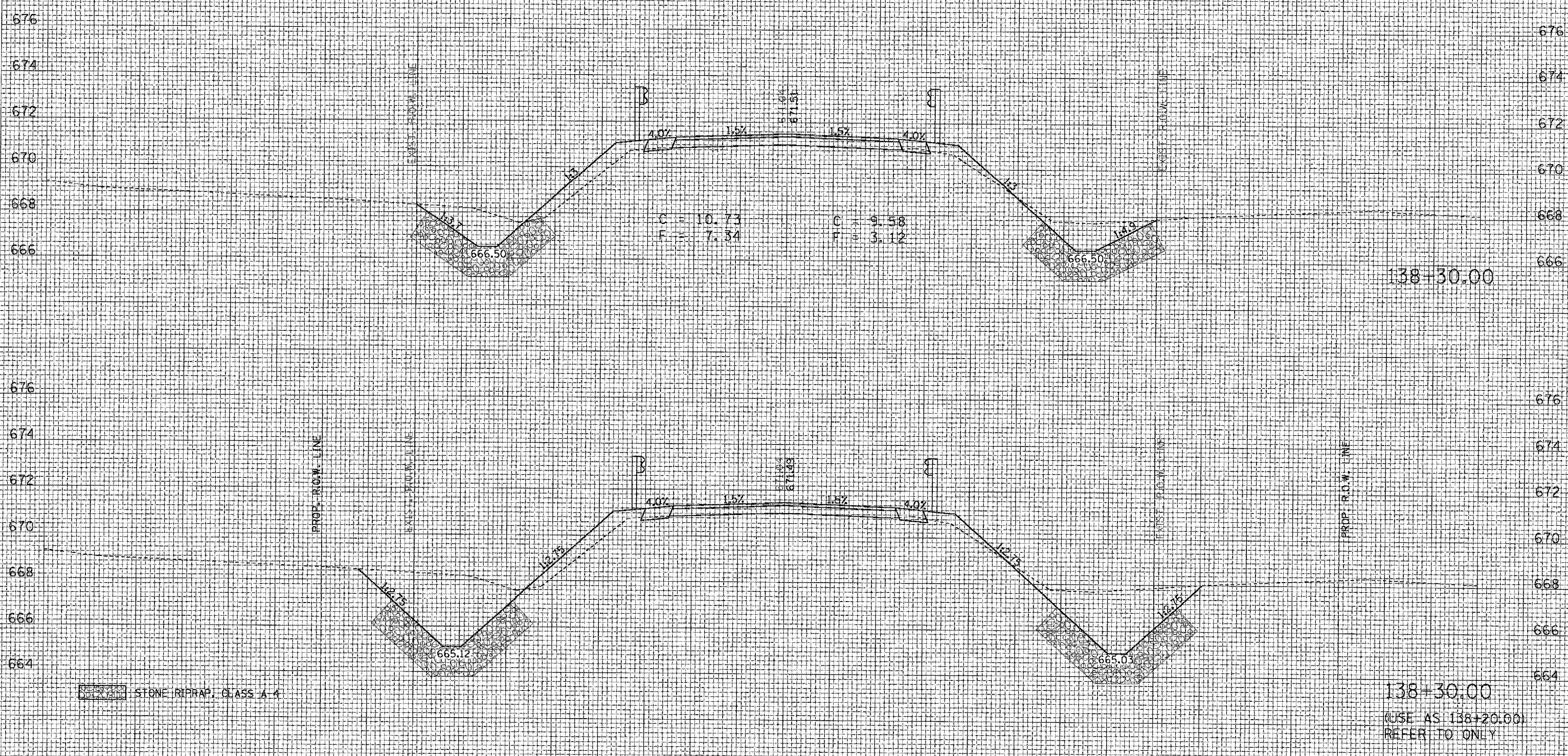
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

70		CONTRACT NO. 70359	
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
516	241BR & 56BR	CHAMPAIGN	82
STA. 138+30.00			SHEET NO. 65
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

DATE	BY

DATE	BY

PLOT DATE = 7/6/2006  
 FILE NAME = c:\p\projects\d50\304\101\2028\\*.s  
 PLOT SCALE = 10.5882 / 1 IN.  
 USER NAME = plr\_sombr



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

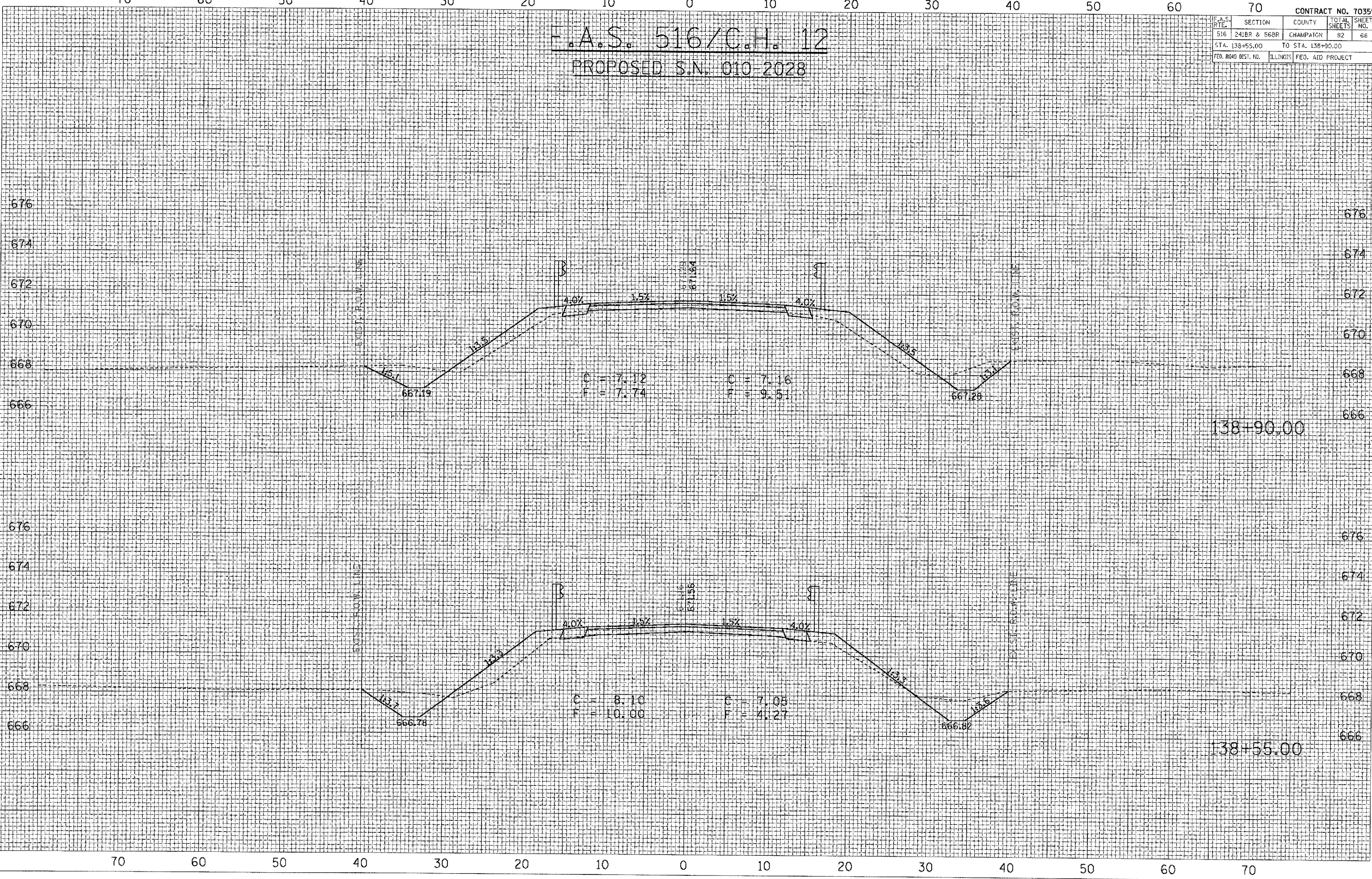
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 562R	CHAMPAIGN	82	66
STA. 138+55.00		TO STA. 138+90.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
AREAS CHECKED	

PLOT DATE = 7/6/2006  
 FILE NAME = c:\p\projects\50304 (v8)\2028.snr  
 PLOT SCALE = 10.5882 / IN.  
 USER NAME = pier-sombr



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70







70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

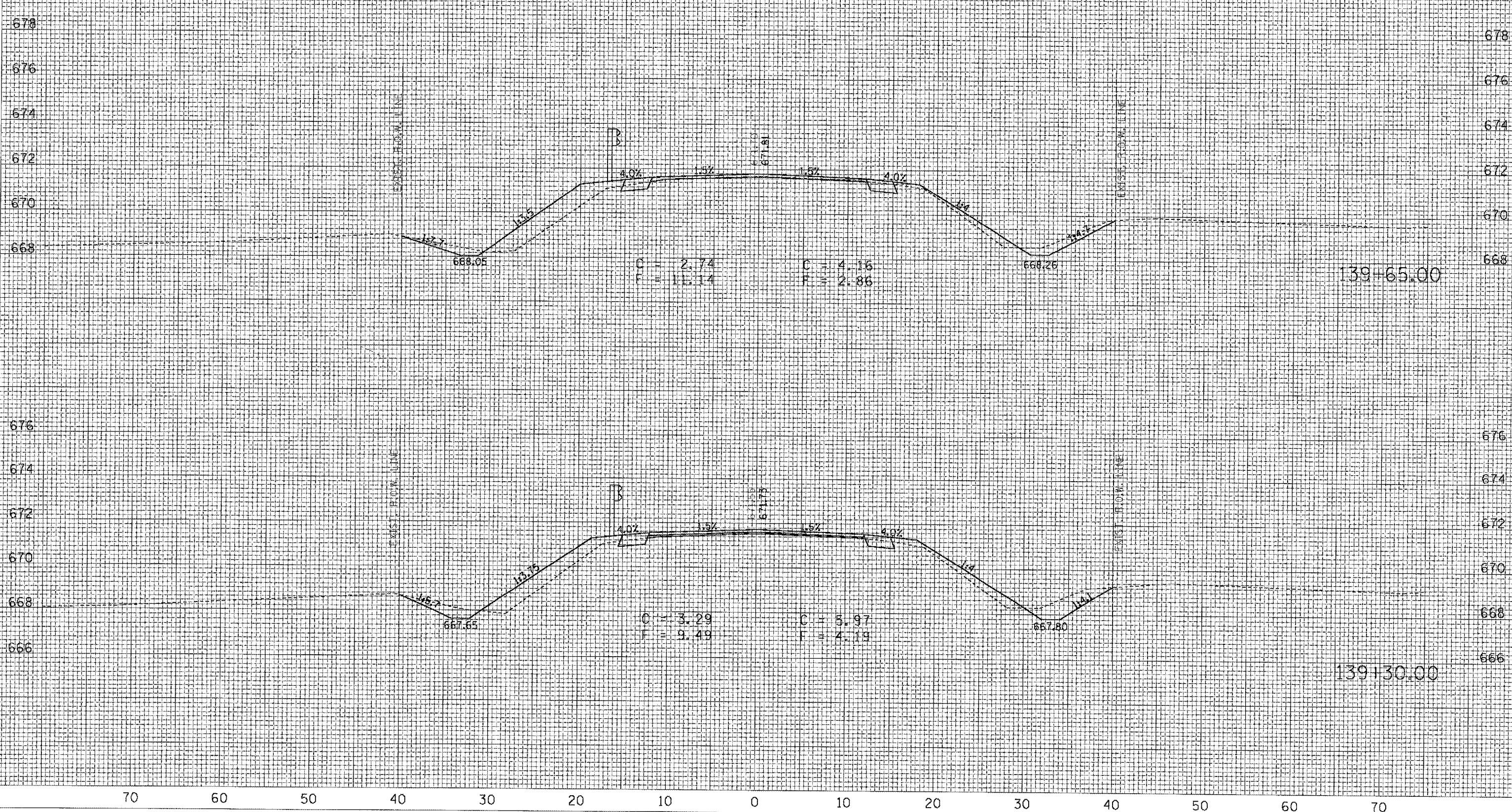
F.A.S. 516/C.H. 12  
 PROPOSED S.N. 010-2028

CONTRACT NO. 70359	
F.A.S. RTE.	SECTION
516	241BR & 56BR
COUNTY	TOTAL SHEETS
CHAMPAIGN	82
STA. 139+30.00	TO STA. 139+65.00
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY

PLOT DATE = 7/6/2006  
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 PLOT SCALE = 10.5682' / IN.  
 USER NAME = p1arsonbr



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70







70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

70 CONTRACT NO. 70359

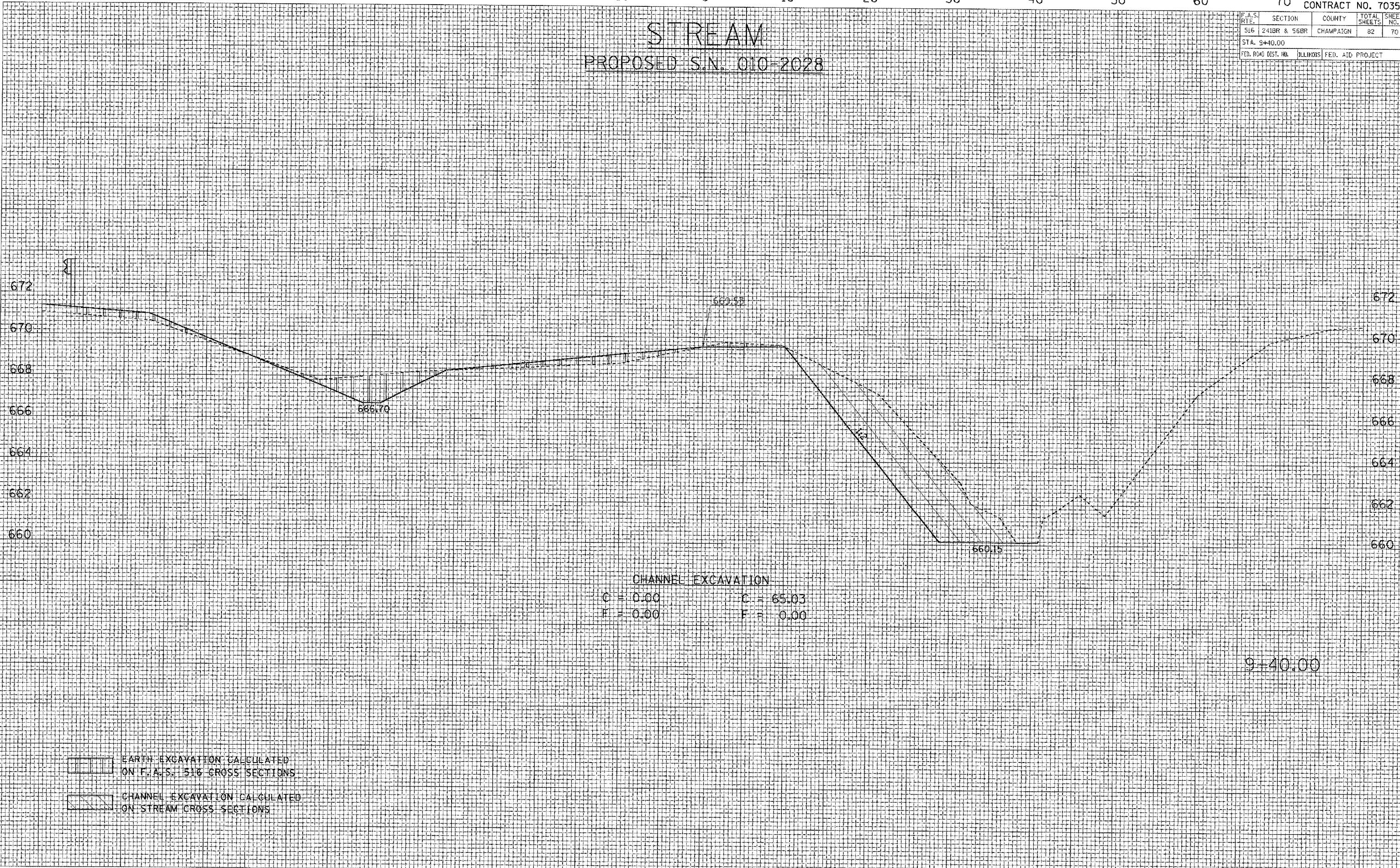
# STREAM PROPOSED S.N. 010-2028

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	70
STA. 9+40.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\70359\70359.dwg  
 PLOT SCALE = 1/8" = 1' IN.  
 USER NAME = dler.sombor



CHANNEL EXCAVATION	
C = 0.00	C = 65.03
F = 0.00	F = 0.00

- EARTH EXCAVATION CALCULATED ON F.A.S. 516 CROSS SECTIONS
- CHANNEL EXCAVATION CALCULATED ON STREAM CROSS SECTIONS

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



70 60 50 40 30 20 10 0 10 20 30 40 50 60

70 CONTRACT NO. 70359

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	71
STA. 9+70.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

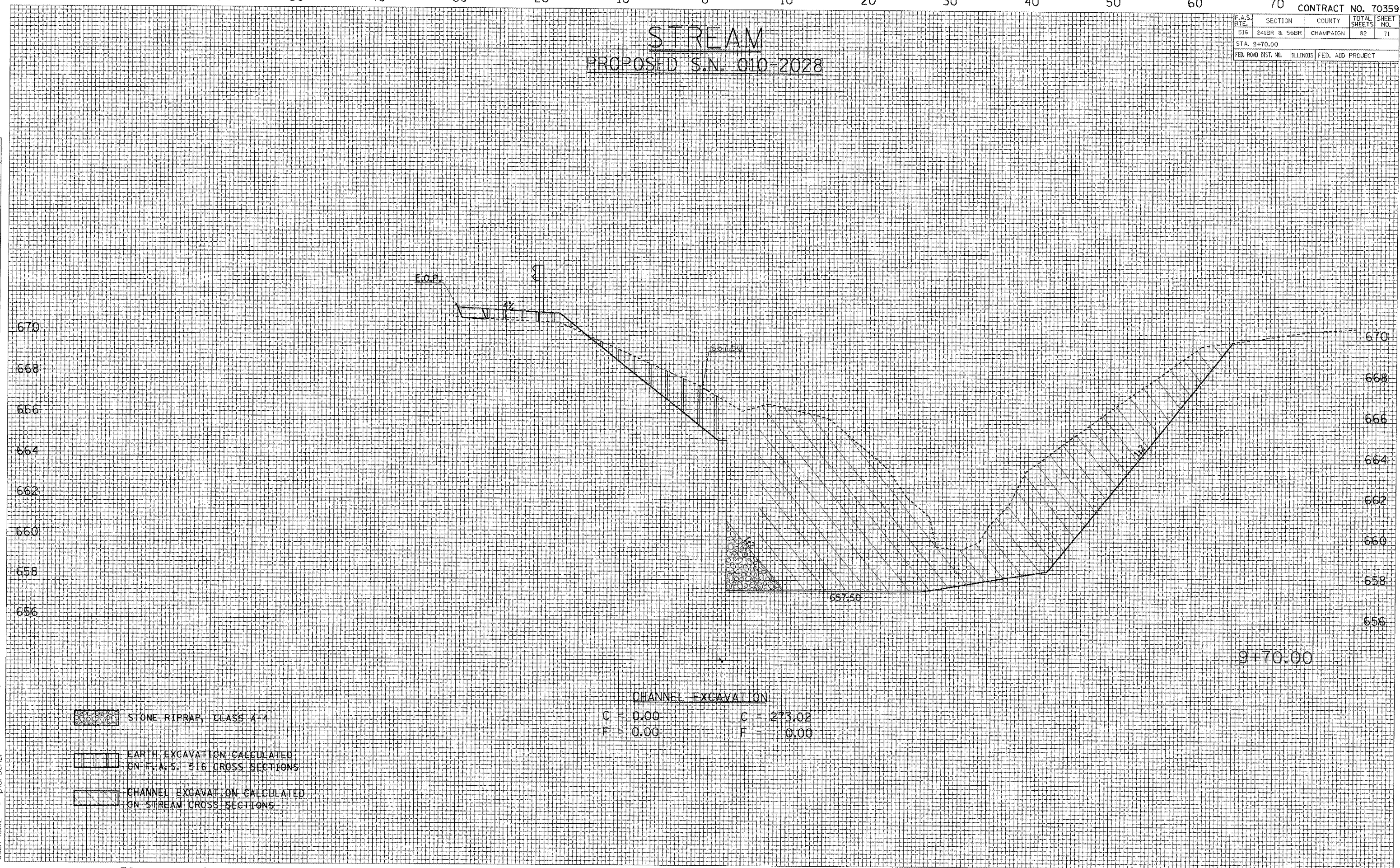
# STREAM

## PROPOSED S.N. 010-2028

DATE	
BY	
REVIEWED	
SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
REVIEWED	
SURVEY	
NOTE BOOK	
NO.	

PLOT DATE = 7/6/2006  
 FILE NAME = G:\projects\516\010-2028\010-2028.dwg  
 PLOT SCALE = 10.5882' / IN.  
 USER NAME = piersonbr



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

9+70.00







70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

70		CONTRACT NO. 70359	
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
51G	241BR & 56BR	CHAMPAIGN	82
STA. 10+18.00			SHEET NO. 73
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

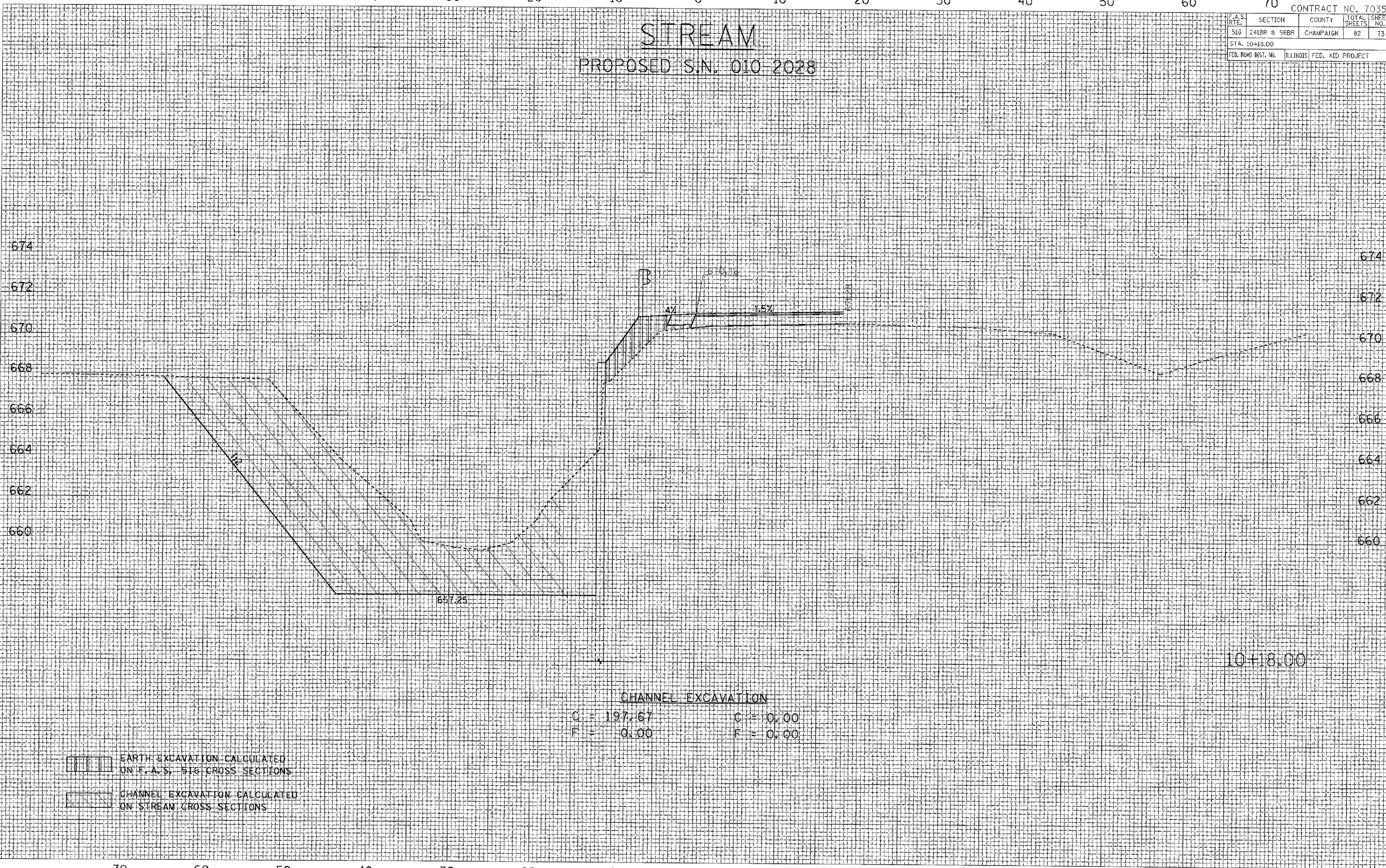
# STREAM

## PROPOSED S.N. 010-2028

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	
APPROVED	
NO.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	
APPROVED	
NO.	

PLOT DATE = 7/6/2006  
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 PLOT SCALE = 1/8" = 1' IN.  
 USER NAME = plersonbr



**CHANNEL EXCAVATION**

C = 197.67	C = 0.00
F = 0.00	F = 0.00

- EARTH EXCAVATION CALCULATED ON F.A.S. 51G CROSS SECTIONS
- CHANNEL EXCAVATION CALCULATED ON STREAM CROSS SECTIONS

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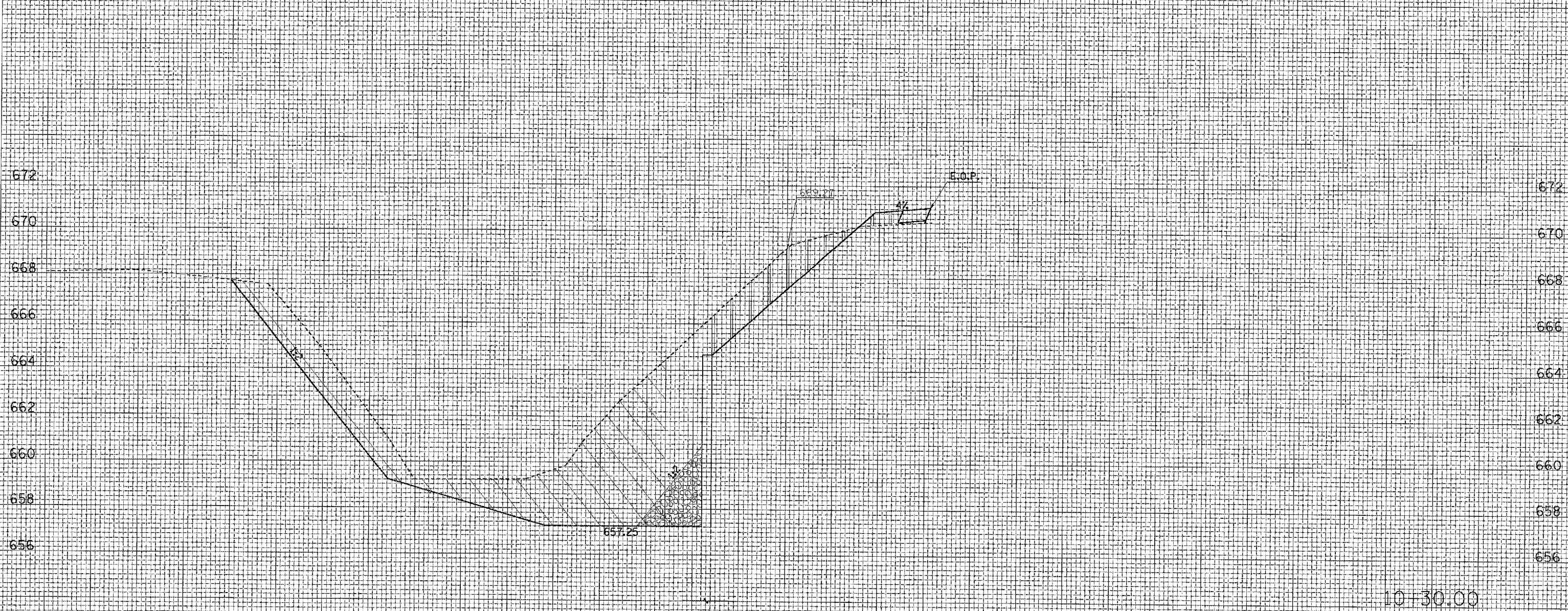


70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

CONTRACT NO. 70359			
F.A.S. NO.	SECTION	COUNTY	TOTAL SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82 74
STA. 10+30.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

# STREAM



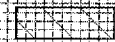
## PROPOSED S.N. 010-2028



10+30.00

### CHANNEL EXCAVATION

C = 108.79      C = 0.00  
 F = 0.00      F = 0.00

-  STONE RIPRAP, CLASS A-4
-  EARTH EXCAVATION CALCULATED ON F.A.S. 516 CROSS SECTIONS
-  CHANNEL EXCAVATION CALCULATED ON STREAM CROSS SECTIONS

DATE	
BY	
REVIEWED	
DATE	
BY	
NO.	

DATE	
BY	
REVIEWED	
DATE	
BY	
NO.	

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\ad501068\1068\1068.dwg  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = p1er.s0n1b1

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

CONTRACT NO. 70359			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82 75
STA. 10+60.00			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

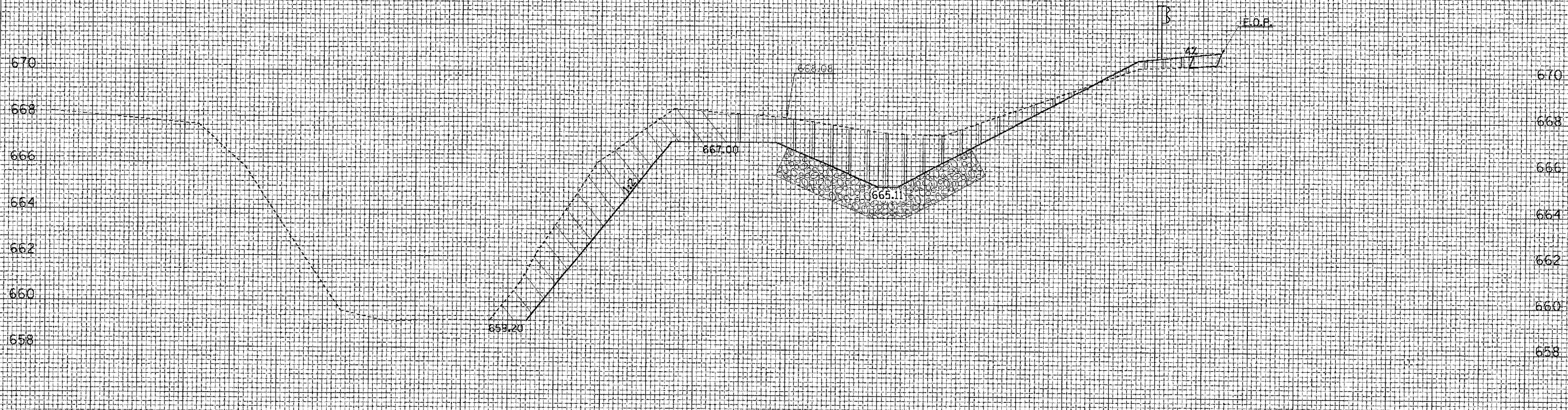
# STREAM

## PROPOSED S.N. 010-2028

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

PLOT DATE = 7/6/2006  
 FILE NAME = c:\projects\05\0501\050100\050100.dwg  
 PLOT SCALE = 10.5882' / IN.  
 USER NAME = p1er5onbr



### CHANNEL EXCAVATION

C = 53.57      C = 0.00  
 F = 0.00      F = 0.00

10+60.00

STONE RIPRAP, CLASS A-4

EARTH EXCAVATION CALCULATED ON F.A.S. 516 CROSS SECTIONS

CHANNEL EXCAVATION CALCULATED ON STREAM CROSS SECTIONS

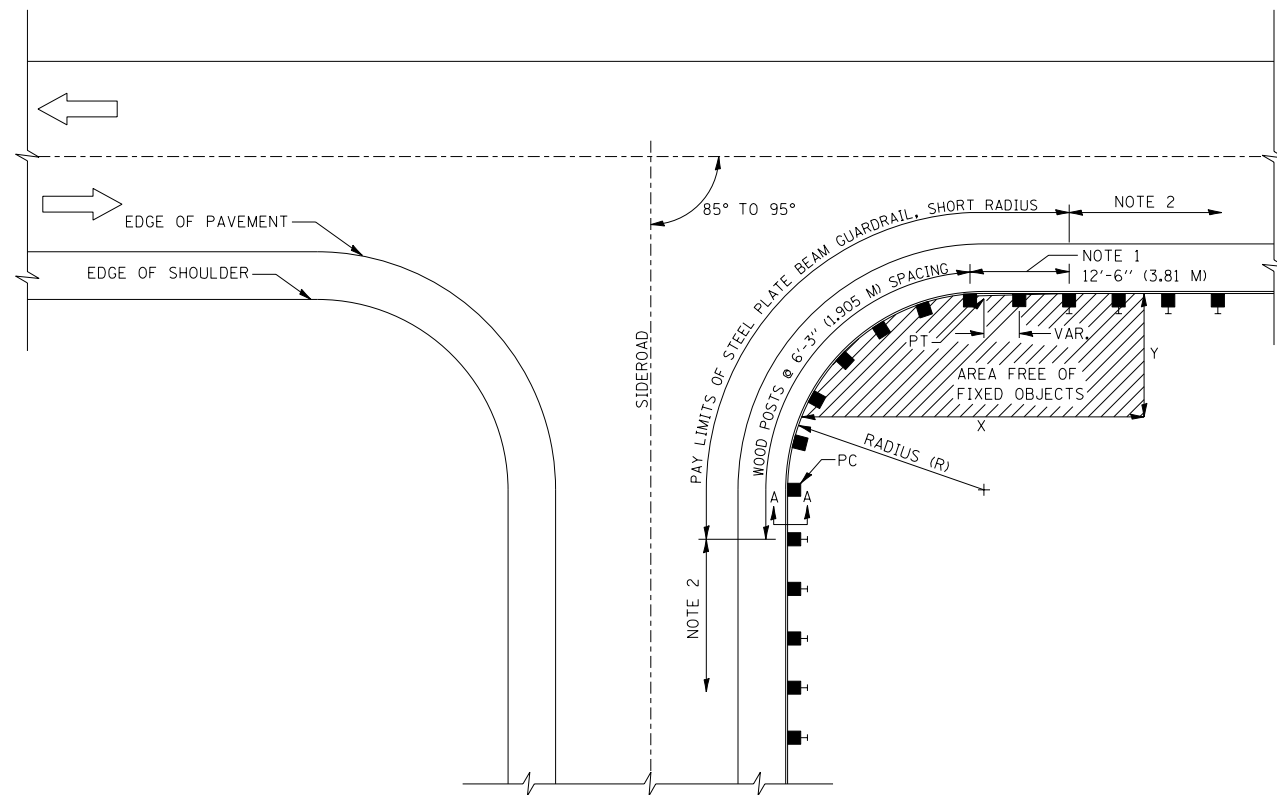
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70





F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	77
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

## STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS



PLAN

### NOTES

1. CONSTRUCT ACCORDING TO STANDARD 631011 FOR TRAFFIC BARRIER TERMINAL TYPE 2, EXCEPT DELETE END SECTION AND SPLICE INTO RADIUS GUARDRAIL.
2. STEEL PLATE BEAM GUARDRAIL TYPE A, TYPE B, OR TRAFFIC BARRIER TERMINAL AS SPECIFIED.
3. FOR THE 8'-6" (2.59 M) RADIUS, THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.

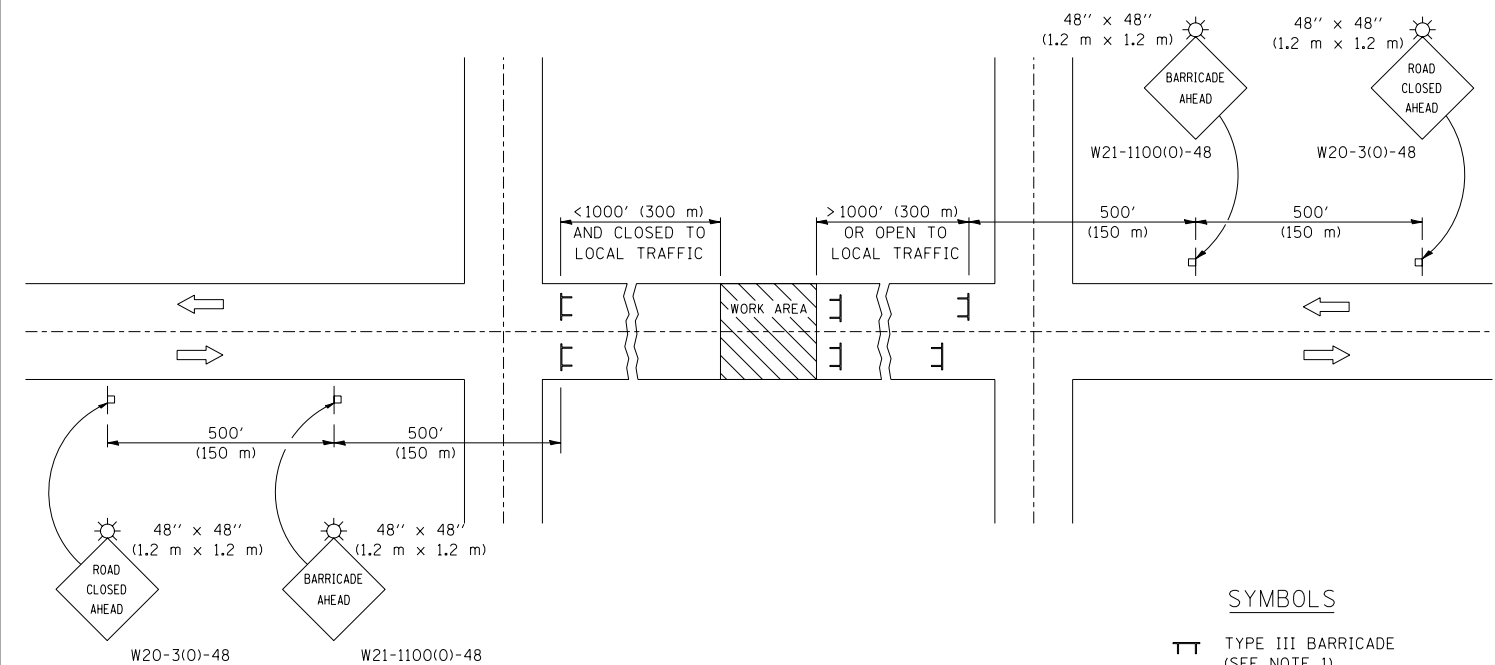
### GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

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

R	NO. OF WOOD POSTS	X	Y
8'-6" (2.59)	5 (NOTE 3)	25' (7.6 m)	15' (4.6)
17'-0" (5.18)	6	30' (9.1 m)	15' (4.6)
25'-6" (7.77)	8	40' (12.2 m)	20' (6.1)
35'-0" (10.67)	11	50' (15.2 m)	20' (6.1)

## TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR ROAD CLOSURE



### SYMBOLS

- ▬ TYPE III BARRICADE (SEE NOTE 1)
- ☀ FLASHING AMBER LIGHT (TYPE A)

### GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 702001 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
3. WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
4. STANDARD 702001 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
5. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
6. REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
8. A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
10. FORMS BT. 725 AND BT. 726 ARE REQUIRED.
11. WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
12. AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

	NAME	DATE	REVISIONS	
DESIGNED	J.H.M.	8-11-87	NAME	DATE
CHECKED	P.E.K.	8-25-87	R.M.H.	12/97
CADD NO.	F-5.03		C.P./K.A.G.	01/05

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

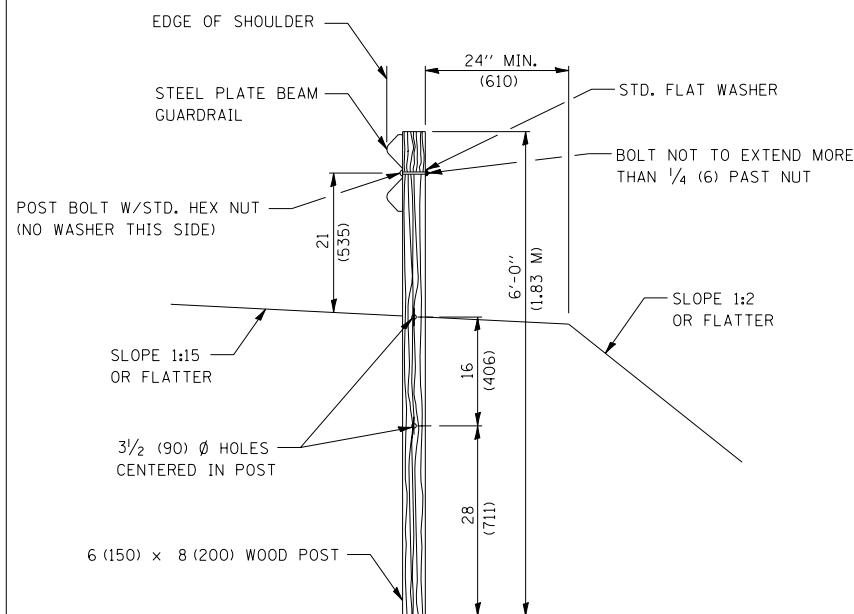
### DETAILS

F.A.S. 516/(C.H. 12)  
SECTION 241BR & 56BR  
CHAMPAIGN COUNTY

DATE: 05/16/06

SCALE: NOT TO SCALE

PLOT DATE = 7/6/2006  
FILE NAME = c:\projects\050304 (v8)\common\details.dgn  
PLOT SCALE = 42.3523 / IN.  
USER NAME = pkrsonbr



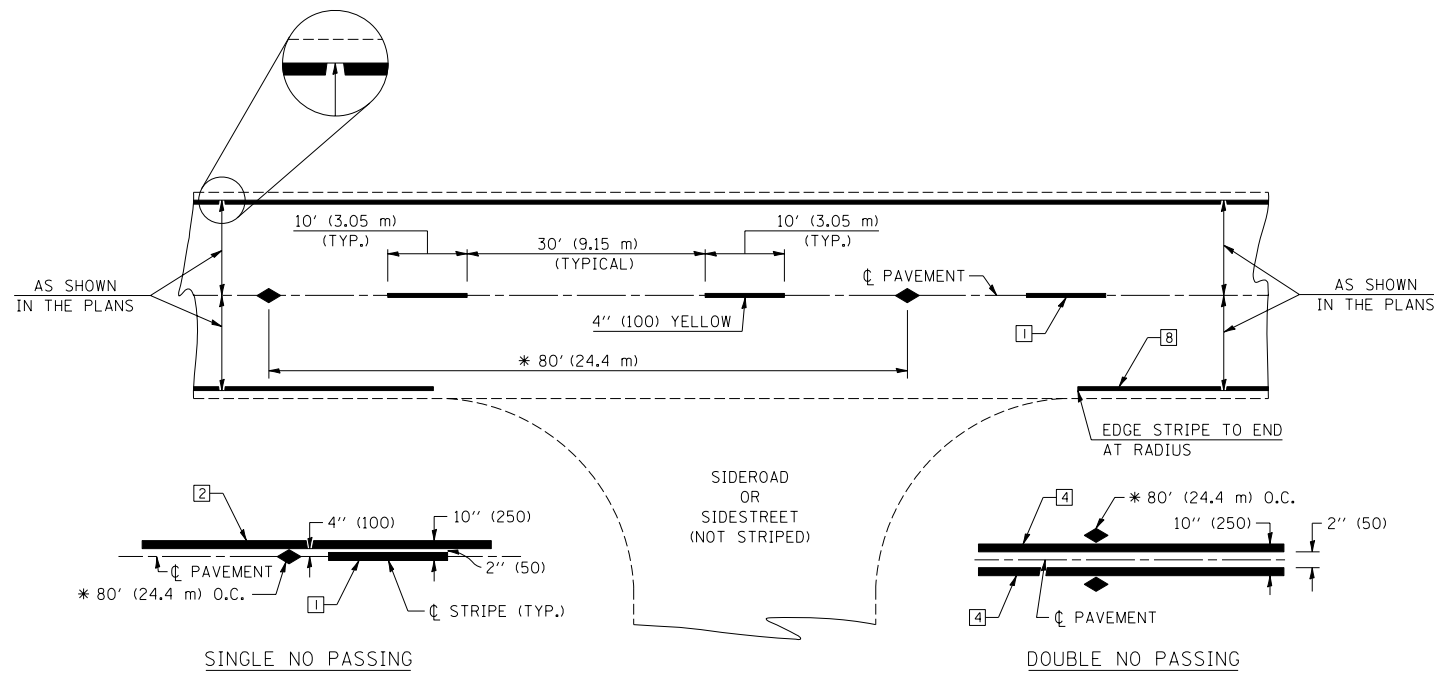
SECTION A-A





F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	79
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



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

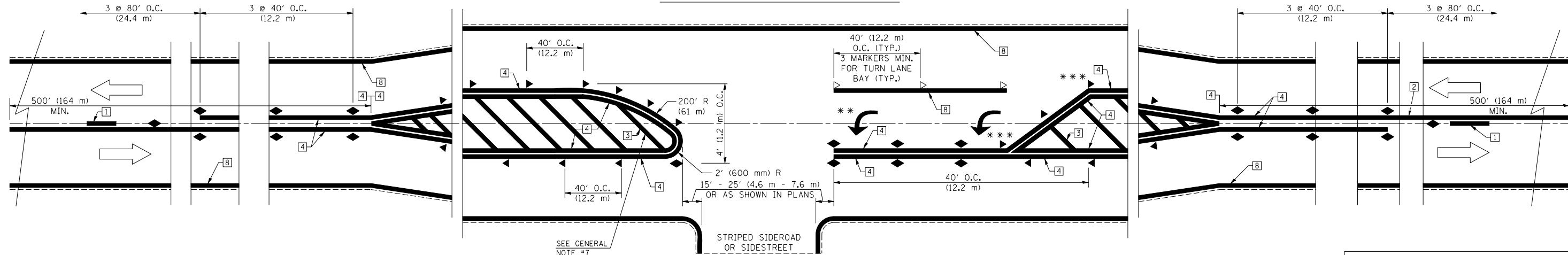
## TYPICAL PAVEMENT MARKING LEGEND

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

## TYPICAL PAVEMENT MARKERS LEGEND

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

## DETAIL OF RURAL LEFT TURN LANE



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

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

### SHEET 1 OF 4

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS**  
 F.A.S. 516/(C.H. 12)  
 SECTION 241BR & 56BR  
 CHAMPAIGN COUNTY  
 Sheet 1 of 4

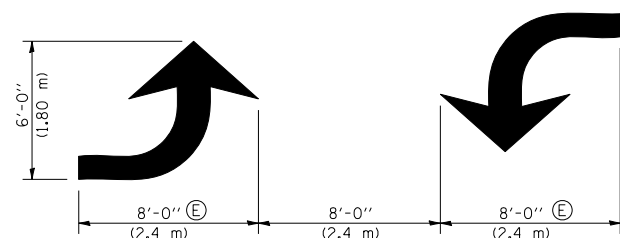
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 USER NAME = pier.sonbr



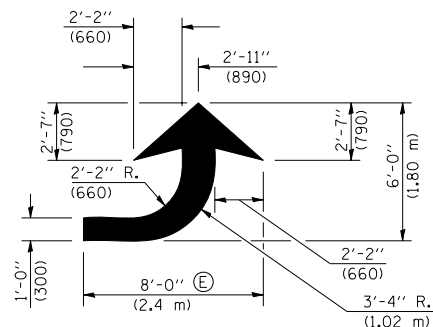


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	81
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

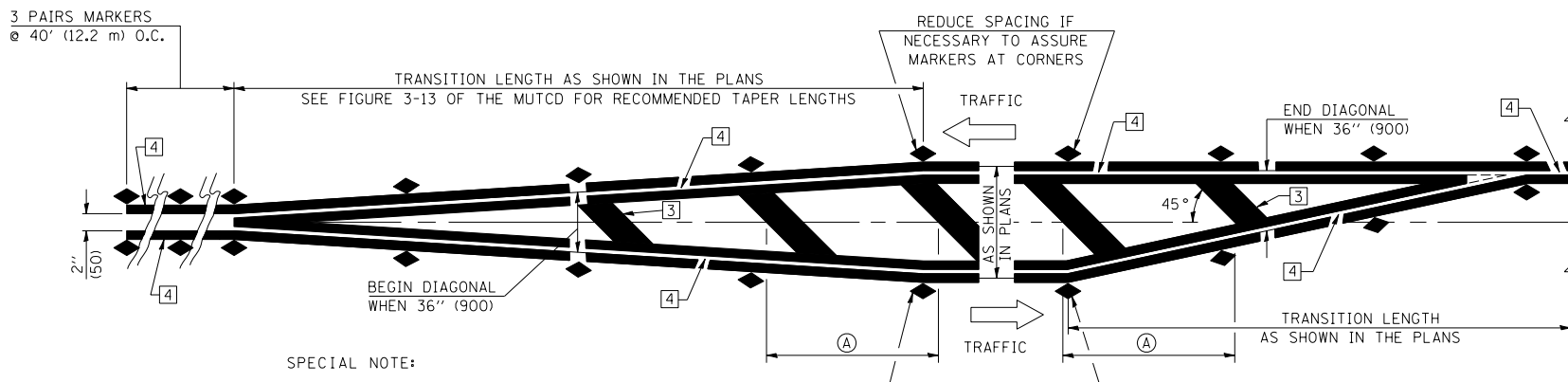
### TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



TYPICAL DOUBLE TURN ARROWS (WHITE)



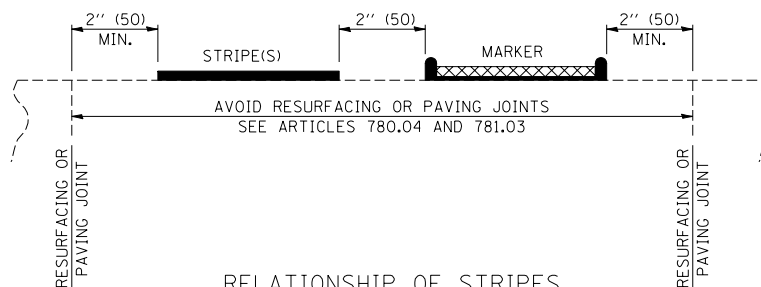
LEFT ARROW  
REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)



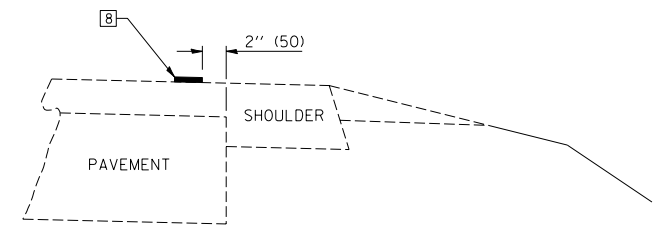
SPECIAL NOTE:  
THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).  
RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

NOTE (A)  
SEE GENERAL NOTE #7

TYPICAL MEDIAN TRANSITIONS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



RELATIONSHIP OF EDGE STRIPE TO SAFETY SHOULDER OR PAVED SURFACE

SPECIAL NOTES:

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

GENERAL NOTES

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

PLOT DATE = 7/6/2006  
FILE NAME = c:\p\o\ecrs\d50104 (v8)\commander\allis.dgn  
PLOT SCALE = 42.3529 / IN.  
USER NAME = piersonbr

SHEET 3 OF 4

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

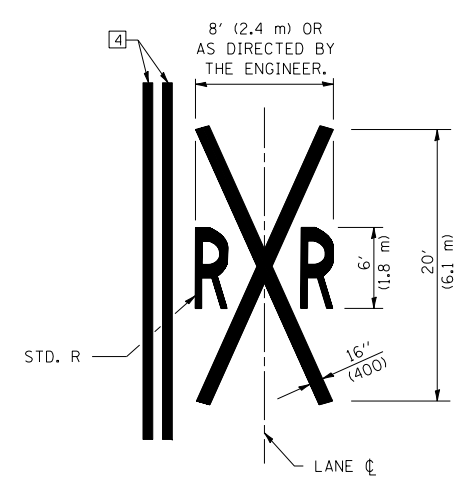
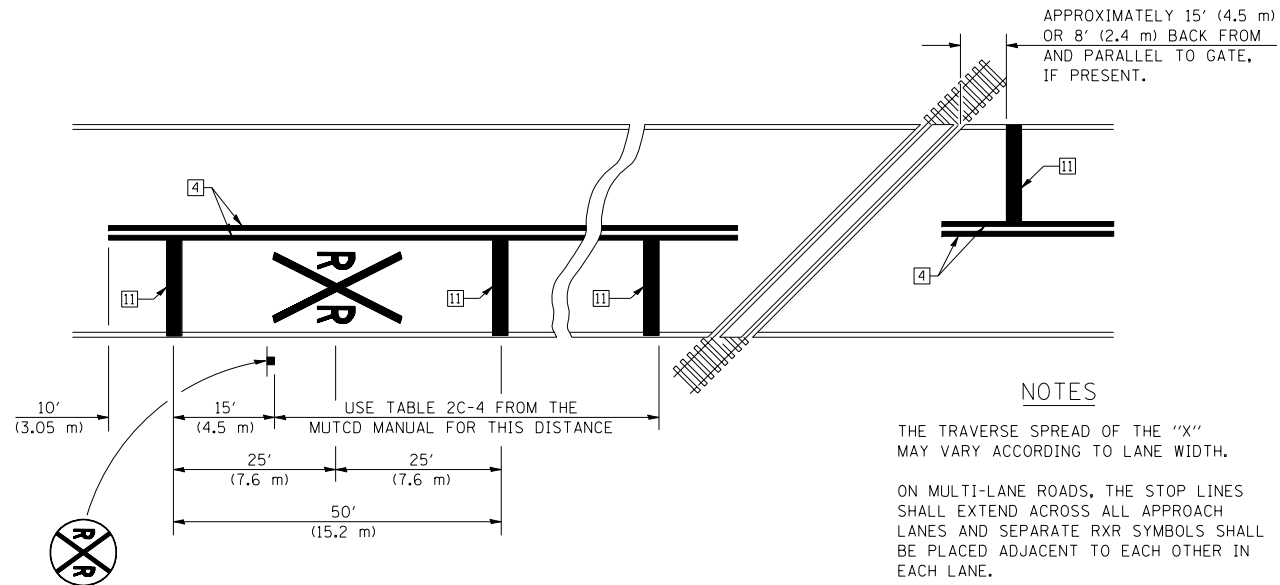
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS  
F.A.S. 516/(C.H. 12)  
SECTION 241BR & 56BR  
CHAMPAIGN COUNTY  
Sheet 3 of 4  
DATE: 05/16/06 SCALE: NOT TO SCALE



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	241BR & 56BR	CHAMPAIGN	82	82
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



**NOTES**

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

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

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

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

PLOT DATE = 7/6/2006  
 FILE NAME = c:\p\projects\d501304\18\commander\alls.dgn  
 PLOT SCALE = 42.3529 / IN.  
 USER NAME = pierstonbr

**SHEET 4 OF 4**

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

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