

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	1
ILLINOIS			CONTRACT NO. 70223	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

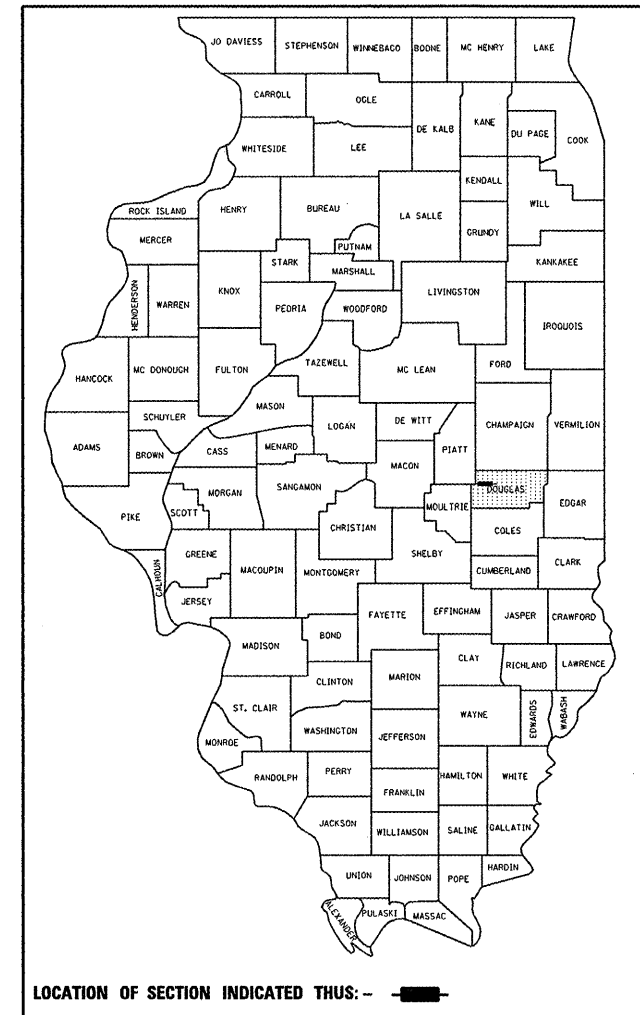
FAP ROUTE 323 (US ROUTE 36)
SECTION (143BR)BR

BRIDGE REPLACEMENT
DOUGLAS COUNTY

C-95-038-02

BEAR CREEK 0.5 MILES EAST OF ATWOOD

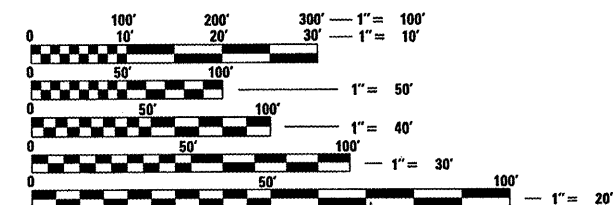
D-95-022-02



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

CURRENT ADT
F. A. P. 323 (US 36) = 4450 (2008)
F. A. P. 323 (US 36) = 4700 (2028)

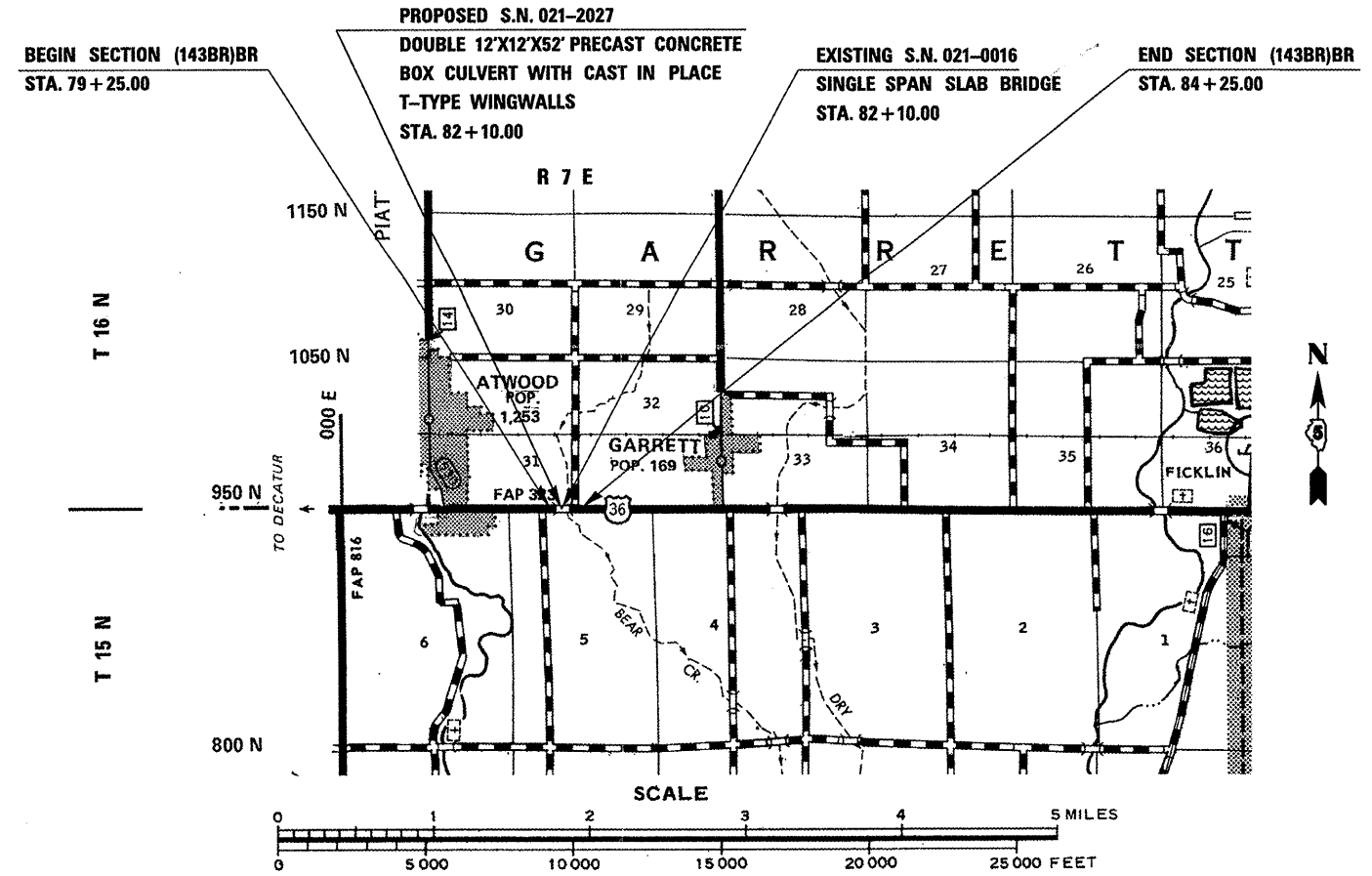
DESIGN DESIGNATION
N/A



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
OR 811
GARRETT TOWNSHIP

PROJECT ENGINEER: NANCY FASIG
SQUAD LEADER: BRIAN J. HOGAN
DESIGNER: ALEX KEDAS
(217-465-4181)
CONTRACT NO. 70223



GROSS LENGTH = 500.000 FT. = 0.095 MILES
NET LENGTH = 500.000 FT. = 0.095 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 12/16/20 09
Joseph E. Doremus
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

January 09 20 10
Scott E. Stahl P.E. Jr.
ACTING ENGINEER OF DESIGN AND ENVIRONMENT

January 09 20 10
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

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LIST OF HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630001-08	STEEL PLATE BEAM GUARDRAIL
630101-08	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-05	SHOULDER WIDENING FOR TYPE 1(SPECIAL) GUARDRAIL TERMINALS
631011-06	TRAFFIC BARRIER TERMINAL, TYPE 2
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
667101-01	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5M (15') AWAY
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 4.5M (15') TO 600 MM (2') FROM PAVEMENT EDGE
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-10	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

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PLOT DATE = 12/17/2009		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS & LIST OF STANDARDS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70223	

GENERAL NOTES

SHEET 1 OF 2

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 OR 811.

G.N.-205

BENCHING PROCEDURES SHALL BE USED IN AREAS WHERE EXISTING EMBANKMENTS ARE WIDENED FOR THE PROPOSED PAVEMENT. STEPS SHALL BE CUT INTO THE EXISTING EMBANKMENT SLOPES AND SHALL HAVE THE FOLLOWING DIMENSIONS:

HORIZONTAL: 4'
VERTICAL: 2'

G.N.-250C

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

G.N.-406

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

G.N.-406.05b

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

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

G.N.-406H

THE FOLLOWING MIX REQUIREMENTS ARE SPECIFIED FOR THIS PROJECT:

Location	MIXTURE REQUIREMENTS	
	US 36	US 36
Mixture Use	Binder and Base Course	Surface
AC/PG	PG 64-22	PG 64-22
RAP % (Max)	25	15
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 19.0	IL 9.5
Friction Aggregate	N.A.	Mix C

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.-550

BEFORE ORDERING STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N.-551

EXISTING STORM SEWERS SHALL BE REMOVED IN ACCORDANCE WITH SECTION 551 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONTRACTOR WILL NOT BE REQUIRED TO SALVAGE ANY EXISTING SEWER PIPE.

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 12/17/2009	DATE -	REVISED -		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 70223	

GENERAL NOTES

SHEET 2 OF 2

G.N.-703A

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

G.N.-781

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

G.N.-1004.01

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

G.N.-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.

NO COMMITMENTS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	4
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK:
 F.A.P. 323 (US 36)
 RURAL TWO LANE
 BRIDGE REPLACEMENT WITH BOX CULVERT
 DOUGLAS COUNTY
 STA. 79+25.00 TO STA. 84+25.00
 0.5 MILES EAST OF ATWOOD
 S.N. 021-2027
 STATE - 100%
 CONSTRUCTION TYPE CODE: X028-2A

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	480.0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	523.0
21301052	EXPLORATION TRENCH, 52"	FOOT	255.0
25000210	SEEDING, CLASS 2A	ACRE	0.3
25000350	SEEDING, CLASS 7	ACRE	0.3
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	27.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	27.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	27.0
25100630	EROSION CONTROL BLANKET	SQ YD	1,375.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30.0
28000305	TEMPORARY DITCH CHECKS	FOOT	90.0
28000400	PERIMETER EROSION BARRIER	FOOT	830.0
28100107	STONE RIPRAP, CLASS A4	SQ YD	532.0
28200200	FILTER FABRIC	SQ YD	532.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	185.0
40600300	AGGREGATE (PRIME COAT)	TON	2.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT	SQ YD	795.0
40600990	TEMPORARY RAMP	SQ YD	40.0
40603080	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50	TON	135.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	85.0
44000700	APPROACH SLAB REMOVAL	SQ YD	112.0
44004000	PAVED DITCH REMOVAL	FOOT	306.0
44004250	PAVED SHOULDER REMOVAL	SQ YD	300.0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0
51500100	NAME PLATES	EACH	1.0
54001000	BOX CULVERT END SECTIONS	EACH	2.0
54021212	PRECAST CONCRETE BOX CULVERT 12 X 12' (M273)	FOOT	104.0
54248510	CONCRETE COLLAR	CU YD	1.0
550A0040	STORM SEWER, CLASS A, TYPE 1 10"	FOOT	8.0
550A0050	STORM SEWER, CLASS A, TYPE 1 12"	FOOT	8.0
55100400	STORM SEWER REMOVAL 10"	FOOT	8.0
55100500	STORM SEWER REMOVAL 12"	FOOT	8.0

SUMMARY OF QUANTITIES

LOCATION OF WORK:
 F.A.P. 323 (US 36)
 RURAL TWO LANE
 BRIDGE REPLACEMENT WITH BOX CULVERT
 DOUGLAS COUNTY
 STA. 79+25.00 TO STA. 84+25.00
 0.5 MILES EAST OF ATWOOD
 S.N. 021-2027
 STATE - 100%
 CONSTRUCTION TYPE CODE: X028-2A

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	425.0
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	50.0
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT	EACH	3.0
63200310	GUARDRAIL REMOVAL	FOOT	637.5
* 63300725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	25.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5.0
67100100	MOBILIZATION	L SUM	1.0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	68.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,380.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	485.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	290.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,380.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9.0
* 78200405	GUARDRAIL MARKERS	EACH	11.0
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3.0
78300100	PAVEMENT MARKING REMOVAL	SQ FT	460.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9.0
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	400.0
50105210	REMOVE EXISTING CULVERTS	FOOT	53.0
* X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0
Z0002900	BASE COURSE (OPTION)	SQ YD	600.0
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0
Z0030350	IMPACT ATTENUATORS, RELOCATE (NOT-REDIRECTIVE), TEST LEVEL 3	EACH	2.0
Z0038700	PERMANENT BENCH MARKS	EACH	1.0

* DENOTES A SPECIALTY ITEM

FILE NAME =	USER NAME = hoganbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

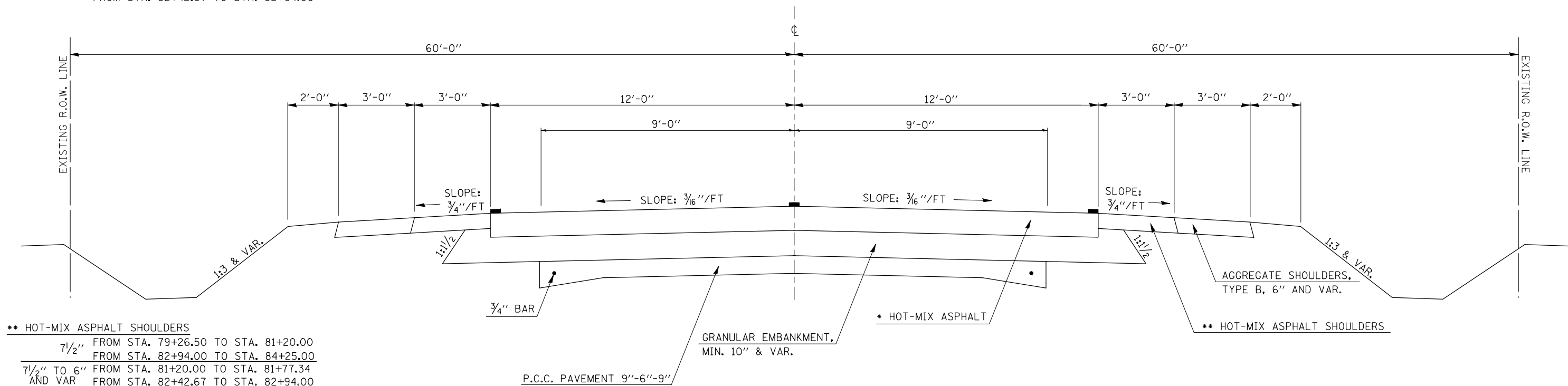
* HOT-MIX ASPHALT

10 1/2" FROM STA. 79+26.50 TO STA. 80+75.00
 FROM STA. 83+39.00 TO STA. 84+25.00
 10 1/2" TO 9" FROM STA. 80+75.00 TO STA. 81+20.00
 FROM STA. 82+94.00 TO STA. 83+39.00
 9" FROM STA. 81+20.00 TO STA. 81+77.34
 FROM STA. 82+42.67 TO STA. 82+94.00

EXISTING TYPICAL CROSS SECTION

FAP 323 (US 36)

STATION 79+26.50 TO STATION 81+77.34
 STATION 82+42.67 TO STATION 84+25.00



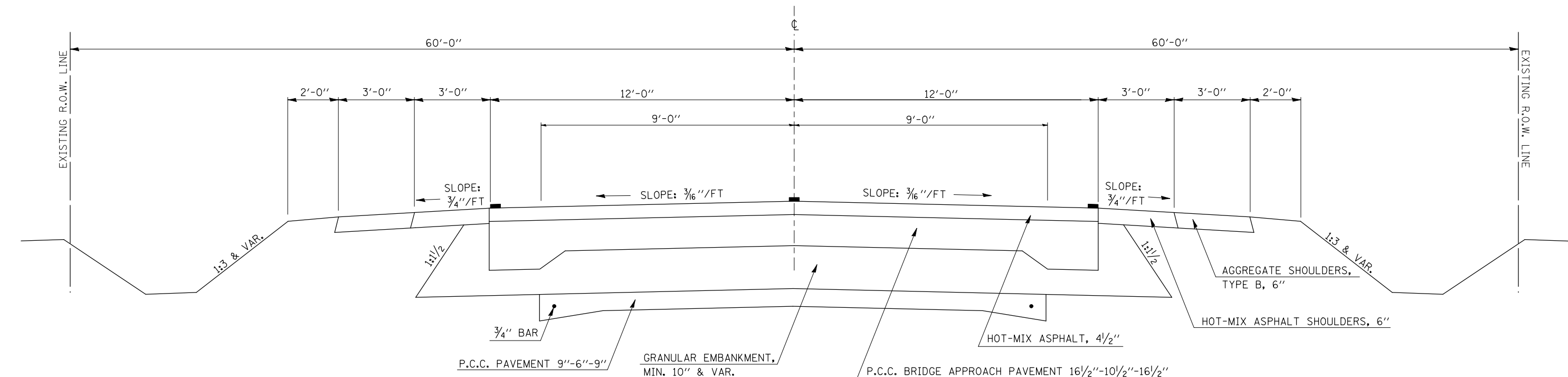
** HOT-MIX ASPHALT SHOULDERS

7 1/2" FROM STA. 79+26.50 TO STA. 81+20.00
 FROM STA. 82+94.00 TO STA. 84+25.00
 7 1/2" TO 6" FROM STA. 81+20.00 TO STA. 81+77.34
 AND VAR FROM STA. 82+42.67 TO STA. 82+94.00

EXISTING TYPICAL CROSS SECTION

FAP 323 (US 36)

STATION 81+77.34 TO STATION 81+97.75
 STATION 82+22.25 TO STATION 82+42.67



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL CROSS SECTIONS

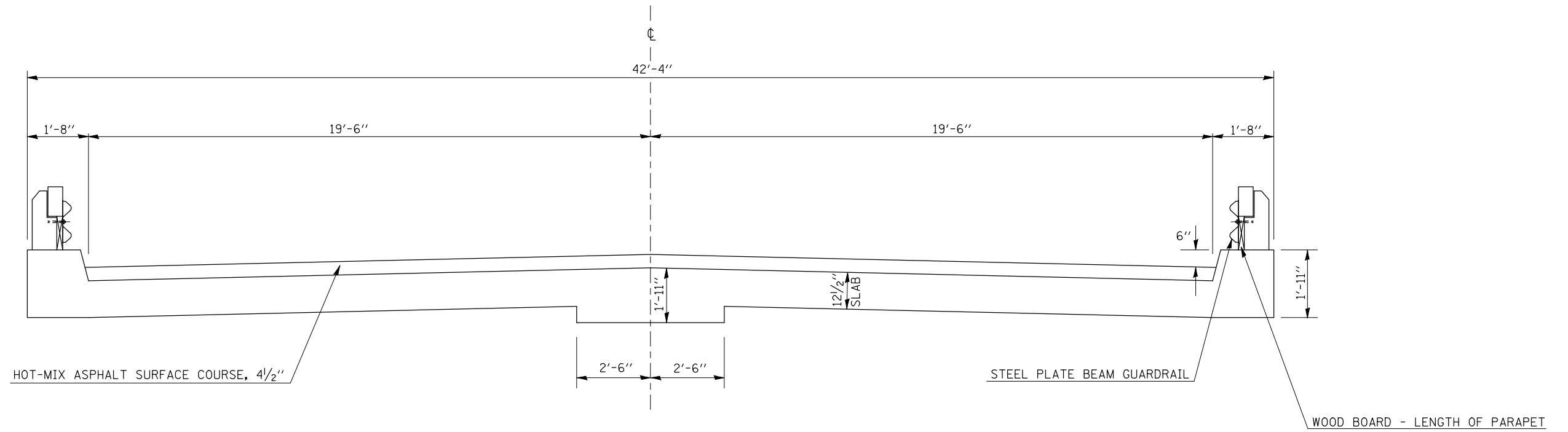
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323	(143BR)BR	DOUGLAS	68	6
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EXISTING TYPICAL CROSS SECTION

S. N. 021-0016

STATION 81+97.75 TO STATION 82+22.25



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL CROSS SECTIONS

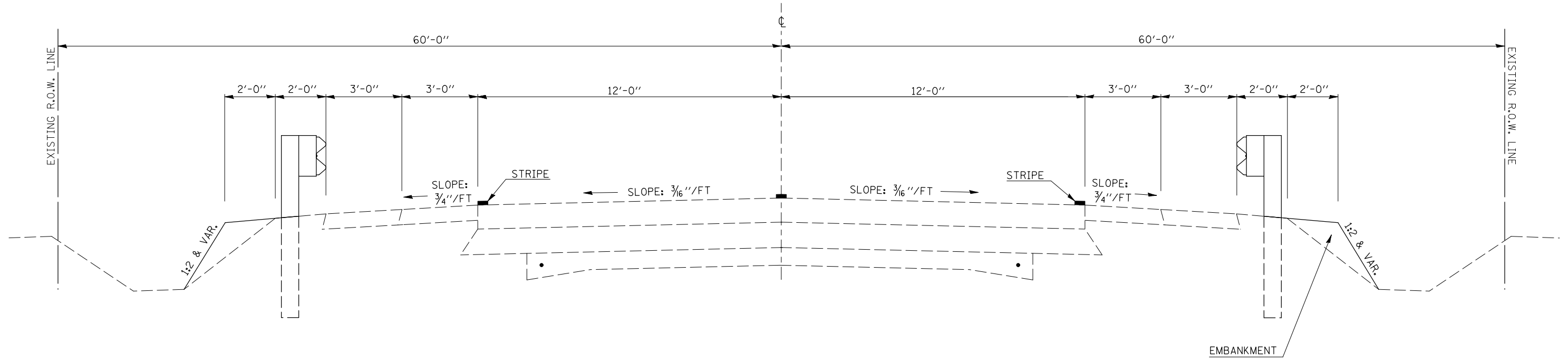
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70223	

PROPOSED TYPICAL CROSS SECTION ①

FAP 323 (US 36)

STATION 79+26.50 TO STATION 80+00.00 ②

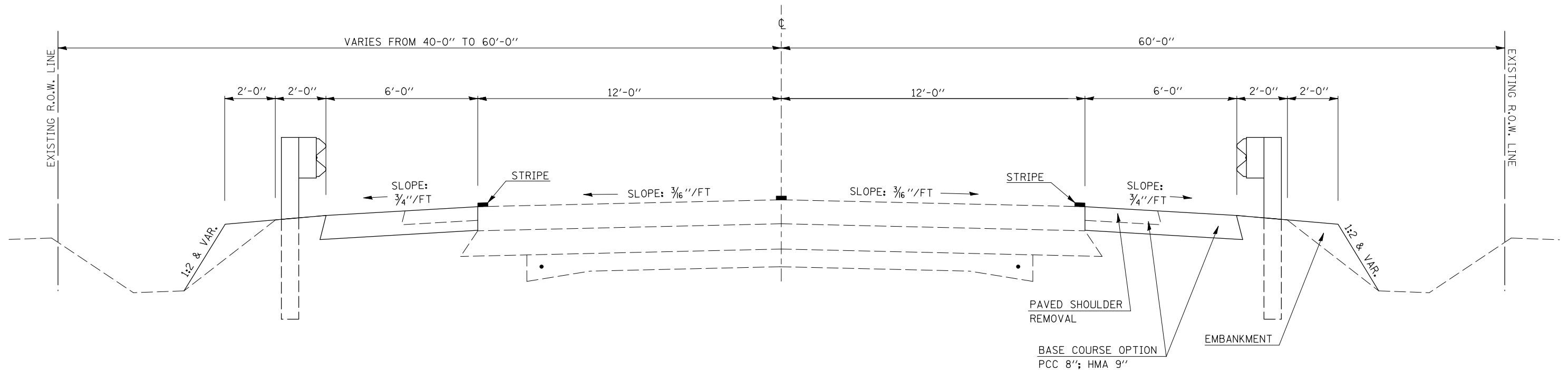


PROPOSED TYPICAL CROSS SECTION ②

FAP 323 (US 36)

① STATION 80+00.00 TO STATION 80+75.00 ③

③ STATION 83+39.00 TO STATION 84+25.00



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PLOT DATE = 12/17/2009		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL CROSS SECTIONS

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

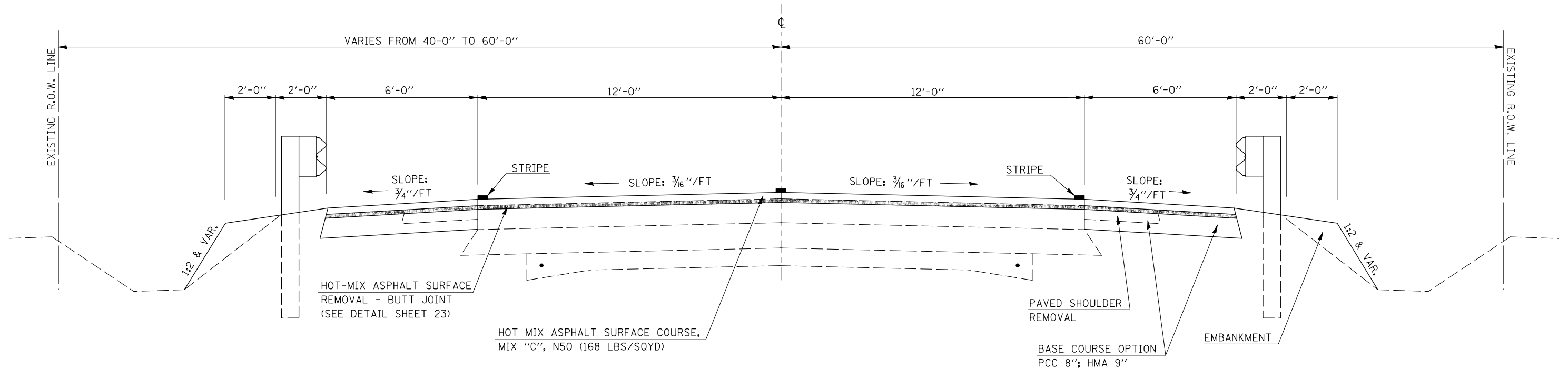
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	8
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROPOSED TYPICAL CROSS SECTION 3

FAP 323 (US 36)

② STATION 80+75.00 TO STATION 81+77.34 ④

④ STATION 82+42.67 TO STATION 83+39.00 ②

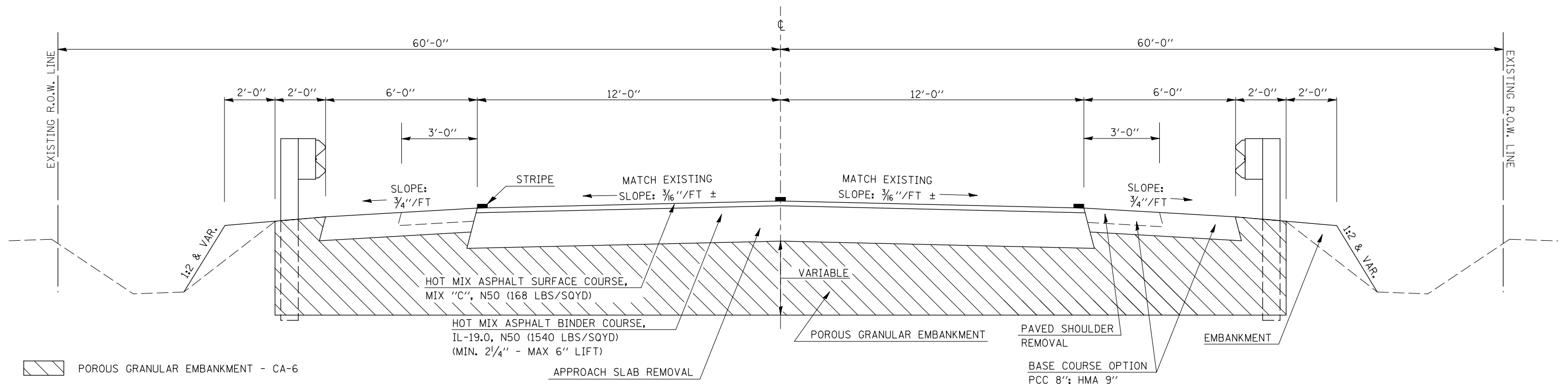


PROPOSED TYPICAL CROSS SECTION 4

FAP 323 (US 36)

③ STATION 81+77.34 TO STATION 81+95.87 ⑤

⑤ STATION 82+24.12 TO STATION 82+42.67 ③



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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL CROSS SECTIONS

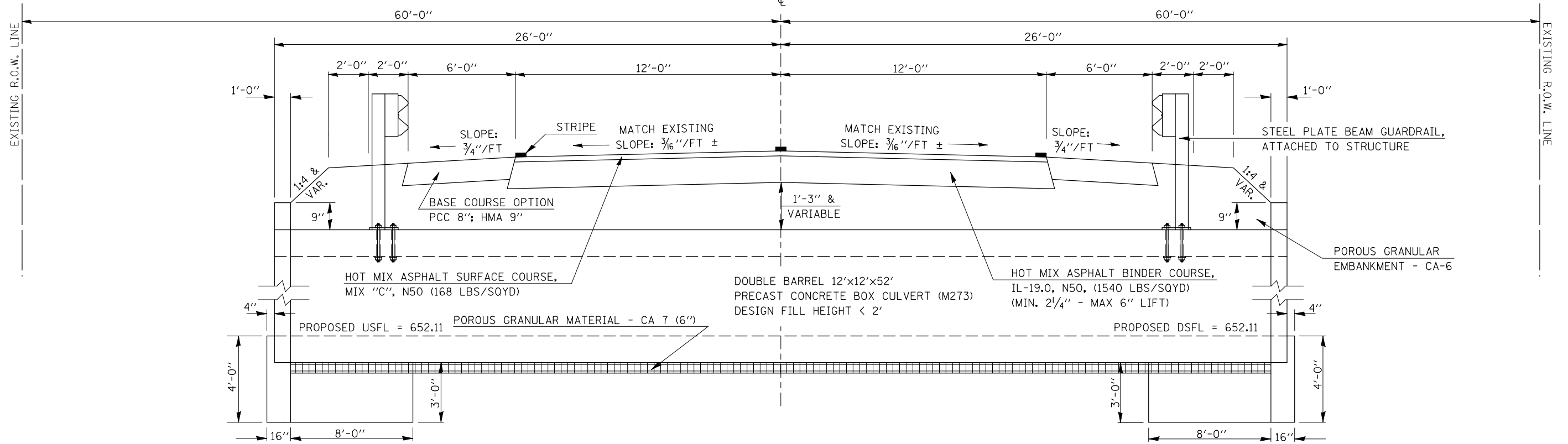
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	9
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROPOSED TYPICAL CROSS SECTION 5

PROPOSED S. N. 021-2027

④ STATION 81+95.87 TO STATION 82+24.12 ④



FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\pw\work\PWIDOT\CEARLOCKJD\0110229\0570223\sh-t\typical.dgn	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -					323	(143BR)BR	DOUGLAS	68	10
PLOT DATE = 12/17/2009	DATE -	CHECKED -	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 70223				
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

SCHEDULE OF QUANTITIES

EARTH EXCAVATION SCHEDULE

DESCRIPTION	EARTH EXCAVATION 20200100 (CU YD)	STRUCTURE EXCAVATION (NOTE 3) (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
BASE COURSE OPTION	50	0	37.5	0	37.5
LT (NORTH) SIDE	160	0	120	30	90
RT (SOUTH) SIDE	270	0	202.5	80	122.5
STRUCTURE EXCAVATION	0	1285	1713.3	0	1713.3
Totals =	480	1285	2073.3	110	1963.3

- NOTES:**
- EARTH EX CALCS FOR BASE COURSE OPTION DO NOT INCLUDE THE AREA BEING PAID FOR AS PAVED SHOULDER REMOVAL.
 - THE CUTS AND FILLS ON THE CROSS SECTIONS DO NOT INCLUDE THE AREA FOR BASE COURSE OPTION. THE BASE COURSE OPTION AREA WAS CALCULATED SEPERATELY.
 - STRUCTURE EXCAVATION IS NOT PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN UNIT PRICE FOR THE PRECAST BOX CULVERT AND THE END SECTION PAY ITEMS.
 - THE SHRINKAGE FACTOR USED IS 25%.
 - SHRINKAGE, EMBANKMENT AND BALANCE IS FOR INFORMATION ONLY.
 - NO PAYMENT WILL BE ALLOWED FOR OVERHAUL
 - EARTH EX CALCS DO NOT INCLUDE THE AREA BEING PAID FOR AS THE RIP RAP PAY ITEM(S). THIS EXCAVATION IS INCLUDED IN THE BID PRICE FOR THE RIP RAP PAY ITEM.

PERIMETER EROSION BARRIER SCHEDULE

STATION		STATION		OFFSET		PERIMETER EROSION BARRIER 28000400 LENGTH (FEET)
				LT OR RT	(FEET)	
79+25	TO	81+88	RT	30		263.0
82+35	TO	84+25	RT	30		190.0
80+00	TO	81+98	LT	35		198.0
82+23	TO	83+47	LT	35 TO 30		124.0
83+70	TO	84+25	LT	25		55.0
TOTALS =						830.0

RIPRAP SCHEDULE

STATION	TO	STATION	OFFSET	LENGTH (FEET)	CONTOUR WIDTH (FEET)	FILTER FABRIC 28200200 (SQ YD)	STONE RIPRAP	STONE RIPRAP	BEDDING STONE (TONS)	
							CLASS A4 28100107 (SQ YD)	CLASS A4 (TONS)		
81+03		82+00	LT	97.00	14.00	151.00	151.00	100.67	45.30	
81+30		82+06	RT	76.00	12.00	102.00	102.00	68.00	30.60	
82+20		83+25	LT	105.00	10.00	117.00	117.00	78.00	35.10	
82+29		83+33	RT	104.00	14.00	162.00	162.00	108.00	48.60	
TOTALS =							532.00	532.00	354.67	159.60

- NOTES:**
- STONE RIPRAP AND BEDDING STONE TONAGE QUANTITIES ARE AN ESTIMATE AND FOR INFORMATION ONLY.
 - STONE RIPRAP IS ESTIMATED BASED ON 1.5 TONS PER CU YD.
 - BEDDING STONE IS ESTIMATED BASED ON 1.8 TONS PER CU YD.

EXPLORATORY TRENCHING SCHEDULE

STATION	TO	STATION	OFFSET	TRENCHES	EXPLORATORY TRENCHING, 52" 21301052 (FEET)
					79+25
82+25	TO	84+00	RT	4 @ 15 FEET	60.0'
80+00	TO	82+00	LT	4 @ 15 FEET	60.0'
82+25	TO	83+50	LT	3 @ 15 FEET	45.0'
83+65	TO	84+25	LT	2 @ 15 FEET	30.0'
TOTALS =					255.0'

TEMPORARY DITCH CHECKS SCHEDULE

STATION	OFFSET LT OR RT	TEMP DITCH CHECKS 28000305 (feet)
		80+50
80+50	RT	10.0
81+75	LT	10.0
81+75	RT	10.0
82+50	LT	10.0
82+50	RT	10.0
83+00	LT	10.0
83+25	RT	10.0
84+40	LT	10.0
TOTALS =		90.0

HOT-MIX ASPHALT SCHEDULE

STATION	TO	STATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SQ YD)	BITUMINOUS MATERIALS (PRIME COAT) 40600100 (GAL)	AGGREGATE (PRIME COAT) 40600200 (TON)	HMA BINDER COURSE, IL 19.0, N50 40603080 (TON)	HMA SURFACE COURSE, MIX "C", N50 40603310 (TON)	HMA SURFACE REMOVAL- BUTT JOINT 40600982 (SQ YD)	
						80+75.00	TO	81+77.34	102.34	36.00	409.36
81+77.34	TO	82+42.67	65.33	24.00	174.21	105.00	0.35	135.00	16.00	0.00	
82+42.67	TO	83+39.00	96.33	36.00	385.32	39.00	0.80	0.00	34.00	385.00	
TOTALS=						968.89	185.00	2.00	135.00	85.00	795.00

APPROACH SLAB REMOVAL SCHEDULE

STATION	TO	STATION	LENGTH (FEET)	WIDTH (FEET)	APPROACH SLAB REMOVAL 44000700 (SQ YD)
					81+77.34
82+21.75	TO	82+42.67	20.92	24.0	56.0
TOTALS =					112.0

SCHEDULE OF QUANTITIES

PAVED DITCH REMOVAL SCHEDULE

STATION	STATION	OFFSET	PAVED DITCH REMOVAL 44004000 (FOOT)
81+03	TO 82+00	LT	97.0
82+20	TO 83+25	LT	105.0
82+29	TO 83+33	RT	104.0
TOTALS =			306.0

PAVED SHOULDER REMOVAL SCHEDULE

STATION	STATION	OFFSET	LENGTH	WIDTH	PAVED SHOULDER REMOVAL 44004250 (SQ YD)
80+00.00	TO 81+98.25	LT	198.25	3.0	66.0
82+21.75	TO 84+25.00	LT	203.25	3.0	68.0
80+00.00	TO 81+98.25	RT	198.25	3.0	66.0
82+21.75	TO 84+25.00	RT	203.25	3.0	68.0
* 81+75.00	TO 81+98.25	LT	23.25	6.0	16.0
* 82+21.75	TO 82+45.00	LT	23.25	6.0	16.0
TOTALS =					300.0

* BASE COURSE (OPTION) INSTALLED IN PRE STAGE TO BE REMOVED IN STAGE 2

STORM SEWER REPAIR SCHEDULE

STATION	OFFSET	STORM SEWER REMOVAL, 12" 55100500 (FEET)	STORM SEWER CLASS A, TYPE 1, RCCP, 12" 550A0050 (FEET)	STORM SEWER REMOVAL, 10" 55100400 (FEET)	STORM SEWER CLASS A, TYPE 1, RCCP, 10" 550A0040 (FEET)	CONCRETE COLLAR 54248510 (CU YD)
82+29	RT	8.0	8.0			0.33
82+43	LT			8.0	8.0	0.67
TOTALS =		8.0	8.0	8.0	8.0	1.0

BASE COURSE (OPTION) SCHEDULE

STATION	STATION	OFFSET	LENGTH (FEET)	WIDTH (FEET)	BASE COURSE OPTION Z0002900 (SQ YD)	STAGE
80+00.00	TO 81+98.25	LT	198.25'	6.00'	133.0 SY	PRE
82+21.75	TO 84+25.00	LT	203.25'	6.00'	136.0 SY	PRE
80+00.00	TO 81+75.00	RT	175.00'	6.00'	117.0 SY	PRE
82+45.00	TO 84+25.00	RT	180.00'	6.00'	120.0 SY	PRE
81+75.00	TO 82+45.00	RT	70.00'	6.00'	47.0 SY	1
81+75.00	TO 82+45.00	LT	70.00'	6.00'	47.0 SY	2
TOTALS =					600.0 SY	

GUARDRAIL SCHEDULE

STATION	STATION	OFFSET	GUARDRAIL REMOVAL 63200310 (FOOT)	STEEL PLATE BEAM GUARDRAIL 63000001 (FOOT)	STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURES 63000025 (FOOT)	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) (17' RADIUS) 63300725 (FOOT)	TRAFFIC BARRIER TERMINAL TYPE 1, (SPECIAL) TANGENT 63100167 (EACH)	TRAFFIC BARRIER TERMINAL TYPE 2 63100045 (EACH)
80+72.50	TO 81+22.50	LT					1.0	
81+22.50	TO 81+97.50	LT		75.0				
81+97.50	TO 82+22.50	LT			25.0			
82+22.50	TO 83+22.50	LT		100.0				
83+22.50	TO 83+39.50	LT				25.0		
83+39.50	TO 83+39.50	LT						1.0
79+72.50	TO 80+22.50	RT					1.0	
80+22.50	TO 81+97.50	RT		175.0				
81+97.50	TO 82+22.50	RT			25.0			
82+22.50	TO 82+97.50	RT		75.0				
82+97.50	TO 83+47.50	RT					1.0	
80+57.60	TO 83+20.90	LT	262.5					
79+87.40	TO 83+62.40	RT	375.0					
TOTALS =			637.5	425.0	50.0	25.0	3.0	1.0

GUARDRAIL MARKERS SCHEDULE

STATION	STATION	OFFSET	LENGTH (FEET)	GUARDRAIL MARKERS 78200405 (EACH)
80+72.50	TO 83+39.50	LT	290.0'	5.0
79+72.50	TO 83+47.50	RT	375.0'	6.0
TOTALS =				11.0

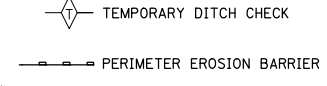
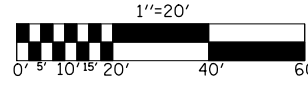
TERMINAL MARKERS SCHEDULE

STATION	OFFSET	TERMINAL MARKERS - DA 78201000 (EACH)
79+72.50	RT	1.0
80+72.50	LT	1.0
83+47.50	RT	1.0
TOTALS =		3.0

PIPE CULVERT REMOVAL 15"

STATION	STATION	OFFSET	PIPE CULVERT REMOVAL 15" X0950100 (FOOT)
81+54	TO 82+07	RT	53.0
TOTALS =			53.0

SEC. 31, T. 16 N., R. 7 E., 3rd P.M.



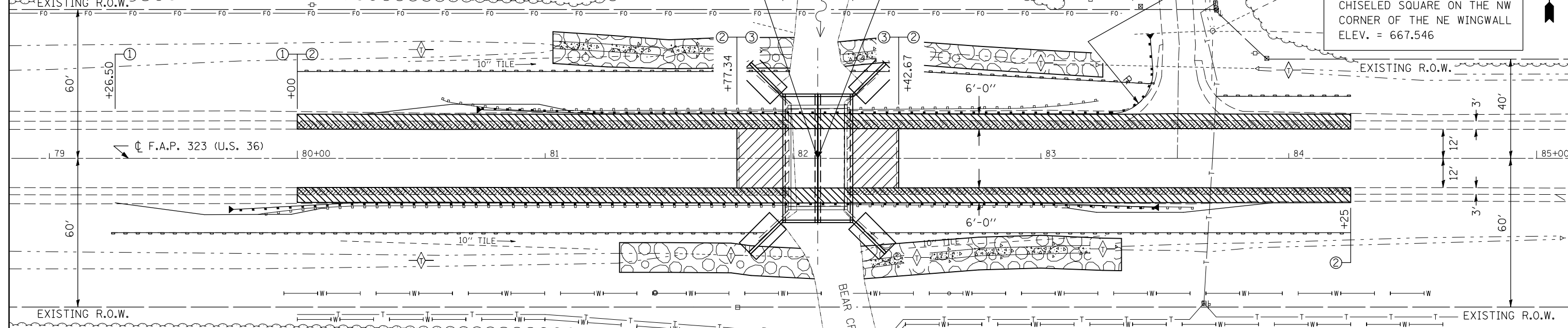
PROPOSED S.N. 021-2027
 DOUBLE 12' X 12' X 52'
 PRECAST BOX CULVERT (M273)
 STA. 82+10.00, 0° SKEW
 DESIGN FILL HEIGHT < 2'

EXISTING S.N. 021-0016
 SINGLE SPAN REINFORCED CONCRETE SLAB
 STA. 82+10.00, 0° SKEW
 24'-6" BK TO BK ABUTMENT
 EXISTING STRUCTURE TO BE REMOVED

RADII - BITSURFACE = 26.36'
 AGG. SHOULDER = 18.10'
 GUARDRAIL = 17.0'

BM 4754-2
 CHISELED SQUARE ON THE NW
 CORNER OF THE NE WINGWALL
 ELEV. = 667.546

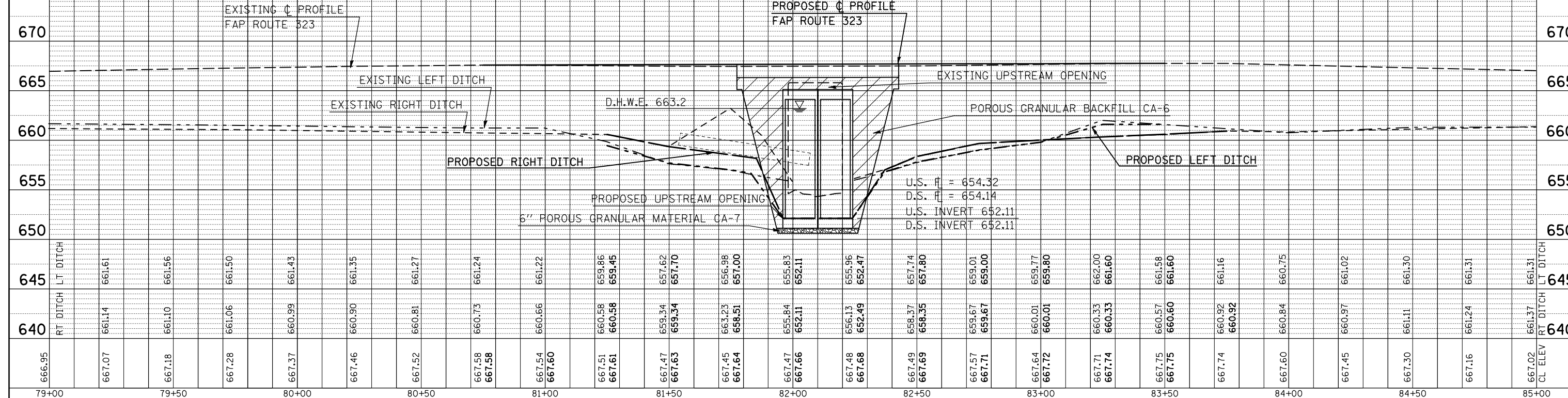
PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO.	



WATERWAY INFORMATION TABLE

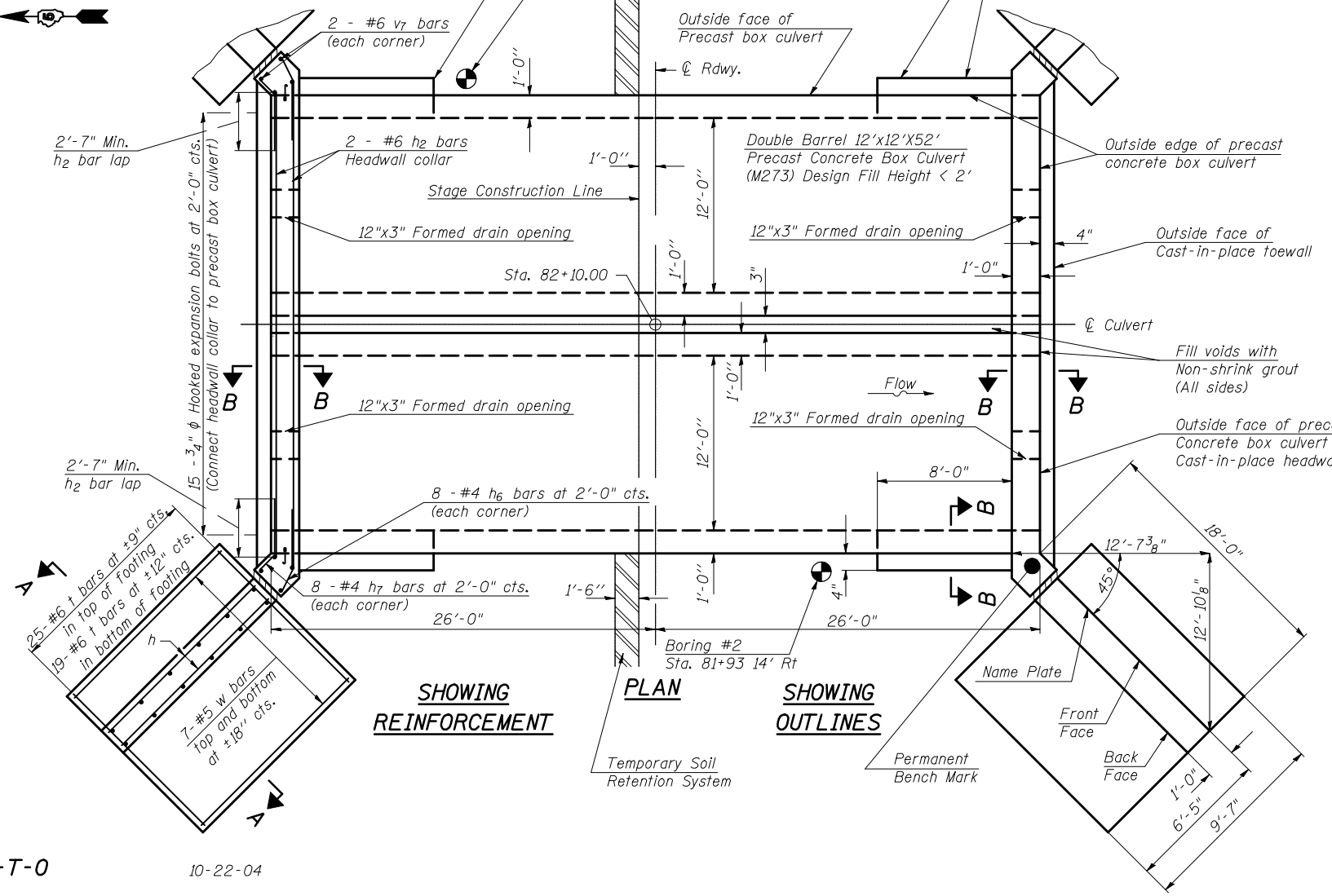
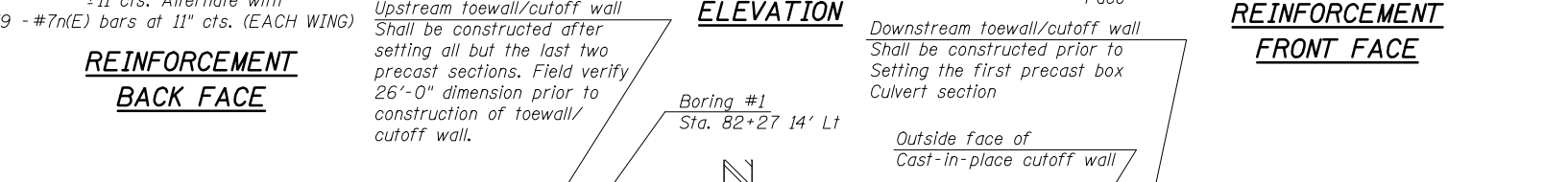
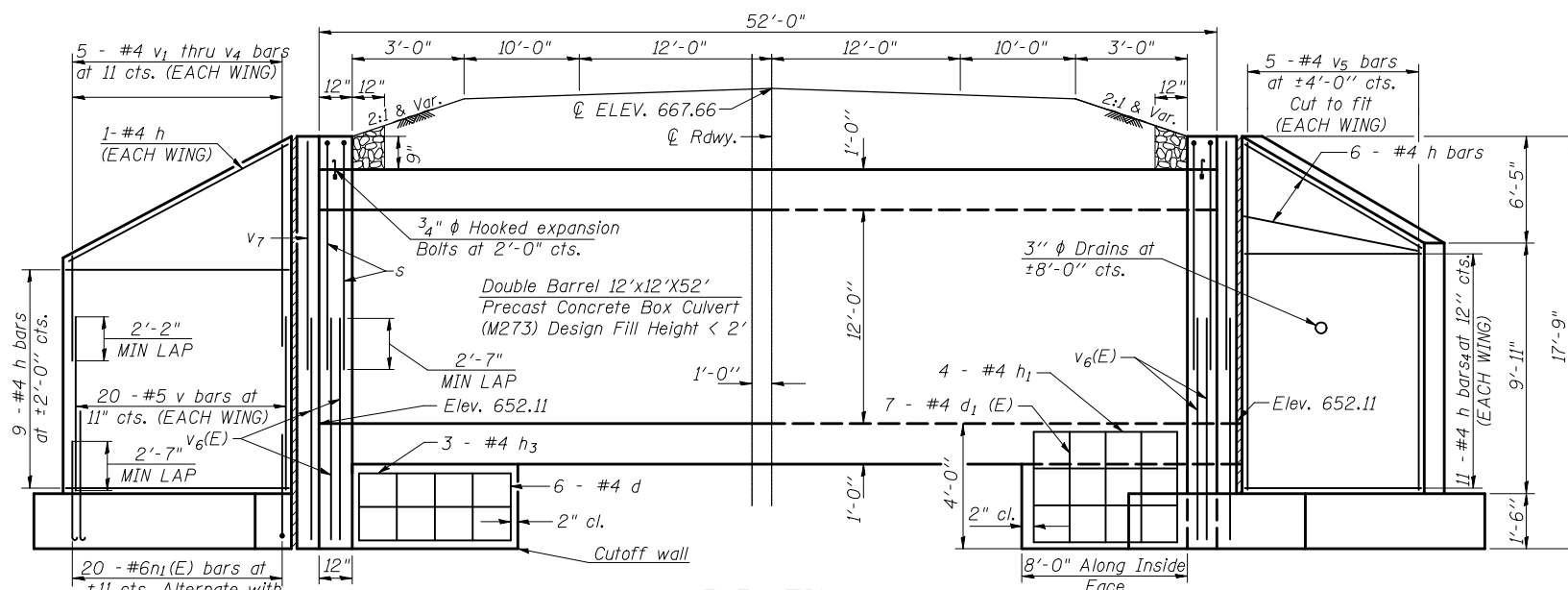
Existing Low Grade Elev. = 665.3		@ Sta. 74+25		Proposed Low Grade Elev. = 665.3		74+25	
Drainage Area = 2.8 mi. ²		Opening Sq. Ft.		Natural H.W.E.		Head - Ft.	
Flood	Freq. Yr.	Q C.F.S.	Existing	Proposed	Existing	Proposed	Headwater Elevation
Design	10	370	156	182	661.7	0	661.7
Base	50	590	189	218	663.2	0.1	663.3
Overtopping	100	686	198	227	663.6	0.1	663.7
Max. Calc.	500	918	200	230	663.7	0.2	663.9
10 YEAR VELOCITY THROUGH EXISTING BRIDGE = 2.39 ft/sec				10 YEAR VELOCITY THROUGH PROPOSED BRIDGE = 2.05 ft/sec			
ALL-TIME H.W.E. & DATE: Unknown							

SEC. 5, T. 15 N., R. 7 E., 3rd P.M.



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO.	

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE SHEET SCALE: SHEET NO. OF SHEETS STA. TO STA.	F.A.P. RTE. = 323	SECTION = (143BR)BR	COUNTY = DOUGLAS	TOTAL SHEETS = 68	SHEET NO. = 13
ct:\pwwork\pwwidot\ceorlockjd\0110229\475	ppsheets.dgn	DRAWN -	REVISED -			CONTRACT NO. 70223				
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				
PLOT DATE = 12/17/2009	DATE -	REVISED -	REVISED -							



NOTES

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage 1 removal to ensure the remaining portion will not be prematurely damaged.

The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M273

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Expansion bolts shall be 3/4" φ hooked bolts. The cost of the bolts shall be included in the cost of Box Culvert End Section.

The Contractor may substitute cast in place inserts and threaded hooked reinforcement bars for the expansion bolts.

Areas of the precast box in contact with cast in place concrete shall be sandblasted, cleaned and wetted prior to placing concrete in the field according to Article 503.09(b) of the Standard Specifications.

The joints between precast segments shall be sealed and all voids filled with a mastic joint sealer. In addition, the sides and top shall be sealed with a 12" wide external sealing band meeting the requirements of ASTM C877 Type III. The joint areas to be sealed shall be cleaned and primed according to the manufacturer's directions prior to placing the seal. The seal shall be protected during backfilling to prevent damage.

The ends of the precast box sections adjacent to the end section shall be formed without the male & female shapes specified in Article 8.1 of AASHTO M273.

End Section 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. Precast option is not allowed.

Drain holes shall be provided in accordance with Art. 503.11.

Voids between the Precast Concrete Box Culvert and the cast-in-place toewall / cutoff wall shall be filled with Non-shrink grout.

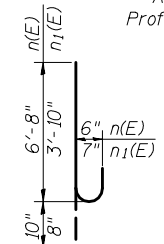
Precast End Section Alternative is not allowed.

Drawing not to scale.

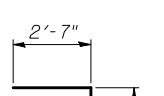
+0.06%

PROFILE GRADE

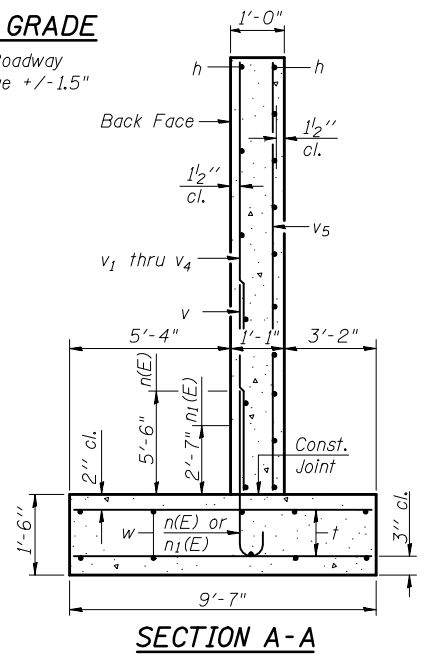
Along \bar{C} Roadway
Profile Change +/- 1.5"



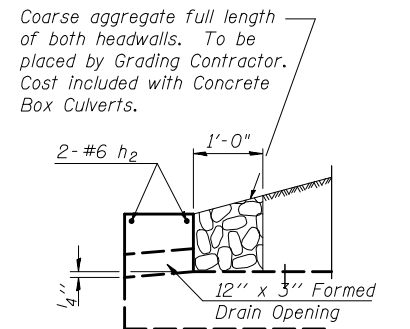
BARS n(E) & n1(E)



BAR s



SECTION A-A



HEADWALL & DRAIN DETAIL

DESIGN STRESSES

"Cast-in-Place"
fy = 60,000 psi
f'c = 3,500 psi

"Precast"
fy = 60,000 psi
f'c = 5,000 psi

Max. Soil Pressure under footing = 3,522 psf

LOADING HS 20-44

BILL OF MATERIAL

(ONE END SECTION)
FOR INFORMATION ONLY

Bar	No.	Size	Length	Shape
d	30	#4	2'-8"	
d1(E)	32	#4	3'-8"	
h	50	#4	17'-8"	
h1	4	#4	28'-8"	
h2	2	#6	28'-0"	
h3	6	#4	8'-0"	
h4	8	#4	8'-9"	
h5	3	#4	28'-0"	
h6	16	#4	1'-2"	
h7	16	#4	9"	
n(E)	38	#7	7'-6"	
n1(E)	40	#6	4'-6"	
s	4	#6	15'-4"	
t	88	#6	9'-4"	
v	40	#5	7'-9"	
v1	10	#4	6'-4"	
v2	10	#4	7'-9"	
v3	10	#4	9'-2"	
v4	10	#4	10'-6"	
v5	12	#4	16'-1"	
v6(E)	8	#6	6'-10"	
v7	4	#6	13'-2"	
w	28	#5	17'-8"	
Concrete Box Culverts			Cu. Yd.	40.4
Reinforcement Bars, Epoxy Coated			Pound	1016
Reinforcement Bars EXPANSION BOLTS			Pound	3595
3/4" φ			EACH	29

Notes:
Reinforcement bars designated (E) shall be epoxy coated.

S.N. 021-2027
STA. 82+10.00

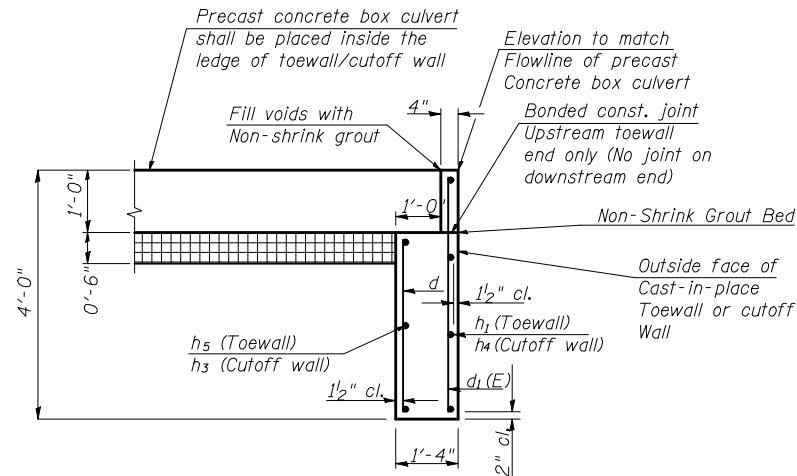
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 1/28/2010		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


CAST-IN-PLACE BOX CULVERT END SECTION DETAIL
PAGE 1 OF 2

SCALE: SHEET NO. OF SHEETS STA. TO STA.

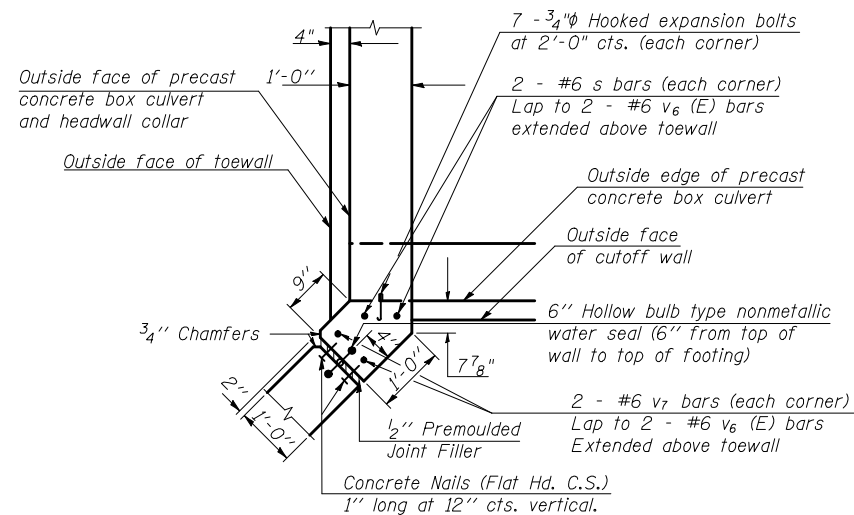
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	14
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



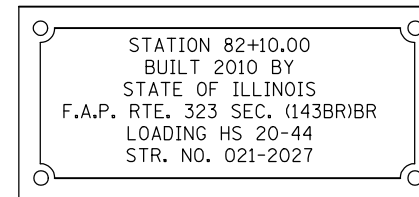
**SECTION B-B
TOEWALL/CUTOFF WALL DETAIL ONLY
(SIDE WALL OF PRECAST BOX CULVERT NOT SHOWN)**

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

NOTE: Place a Non-Shrink Grout bed on top of the cut-off wall in order to evenly distribute the weight of the precast box culvert section on top of it.



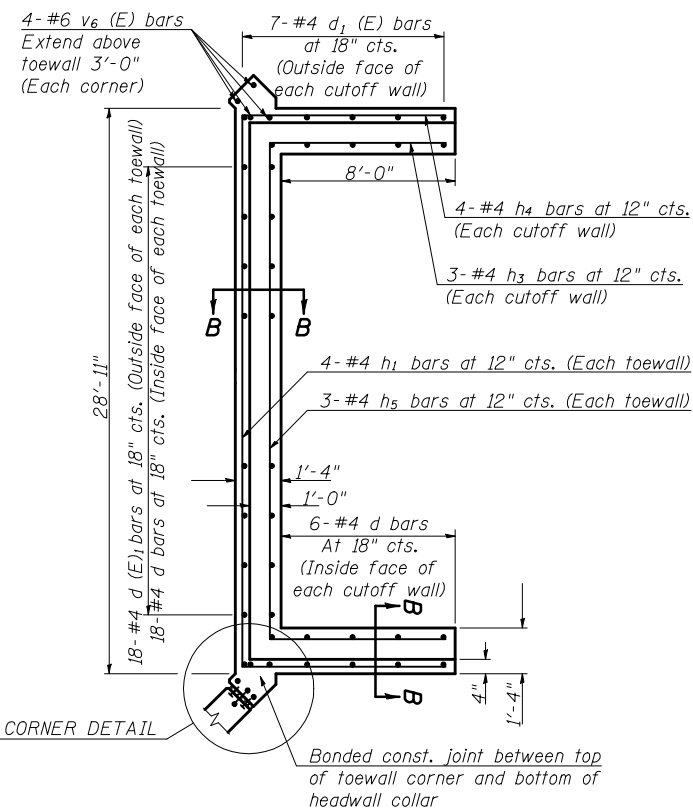
**CAST-IN-PLACE CORNER DETAIL
FOR HEADWALL COLLAR**



NAME PLATE

* See Highway Standard 515001-03 for dimensions and placement.

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



**TOEWALL / CUTOFF WALL DETAIL
WITH CORNER DIMENSIONS**

50100100 REMOVE EXISTING STRUCTURES - 1.0 EACH
FROM 1954 AS-BUILT PLANS: FOR INFORMATION ONLY
EXISTING SUPER-STRUCTURE CONCRETE 44.0 CU. YDS.
EXISTING SUB-STRUCTURE CONCRETE 148.8 CU YDS.
EXISTING REINFORCEMENT BARS 24, 780 POUNDS

S.N. 021-2027
STA. 82+10.00

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED BJH 12/11/2009
ce:\pw\work\p\WIDOT\CEARLOCKJD\0110229\70223details.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/17/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE BOX CULVERT END SECTION DETAIL
PAGE 2 OF 2

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	15
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



Illinois Department
of Transportation
Division of Highways
IDOT - Region 3/Dist 5

SOIL BORING LOG

Page 1 of 1

Date 4/20/07

ROUTE FAP 323 (US 36) DESCRIPTION US 36 over Bear Creek 0.5 Miles East of Atwood LOGGED BY RRW

SECTION (143BR)BR LOCATION NW, SEC. 5, TWP. 15N, RNG. 7E

COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	<u>021-0016</u>	D	B	U	M	Surface Water Elev.	<u>662.3</u> ft	D	B	U	M
Station	<u>82+10</u>	E	L	C	O	Stream Bed Elev.	<u>661.3</u> ft	E	L	C	O
BORING NO.	<u>1 NE Boring</u>	P	O	S	I	Groundwater Elev.:		P	O	S	I
Station	<u>82+27</u>	T	W	Qu	T	First Encounter	<u>639.5</u> ft ▼	T	W	Qu	T
Offset	<u>14.0</u> ft Lt.	H	S			Upon Completion	<u>Plugged</u> ft	H	S		
Ground Surface Elev.	<u>667.5</u> ft	(ft)	(6")	(tsf)	(%)	After _____ Hrs.	_____ ft	(ft)	(6")	(tsf)	(%)

Brown Silty Clay					Gray Sandy Clay Loam Till (continued)								
Black Silty Clay					Brownish Gray Silty Sand								
Black/Gray Silty Clay					End of Boring								
Gray Sandy Clay Loam Till					End of Boring								

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



Illinois Department
of Transportation
Division of Highways
IDOT - Region 3/Dist 5

SOIL BORING LOG

Page 1 of 1

Date 4/20/07

ROUTE FAP 323 (US 36) DESCRIPTION US 36 over Bear Creek 0.5 Miles East of Atwood LOGGED BY RRW

SECTION (143BR)BR LOCATION NW, SEC. 5, TWP. 15N, RNG. 7E

COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	<u>021-0016</u>	D	B	U	M	Surface Water Elev.	<u>662.3</u> ft	D	B	U	M
Station	<u>82+10</u>	E	L	C	O	Stream Bed Elev.	<u>661.3</u> ft	E	L	C	O
BORING NO.	<u>2 SW Boring</u>	P	O	S	I	Groundwater Elev.:		P	O	S	I
Station	<u>81+93</u>	T	W	Qu	T	First Encounter	_____ ft	T	W	Qu	T
Offset	<u>14.0</u> ft Rt.	H	S			Upon Completion	<u>Plugged</u> ft	H	S		
Ground Surface Elev.	<u>667.5</u> ft	(ft)	(6")	(tsf)	(%)	After _____ Hrs.	_____ ft	(ft)	(6")	(tsf)	(%)

Gray Mottled Silty Clay					Gray Sandy Clay Loam Till (continued)								
Dark Gray Mottled Sandy Clay					End of Boring								
Dark Gray Mottled Sandy Clay Loam					End of Boring								
Gray Sandy Clay Loam Till					End of Boring								

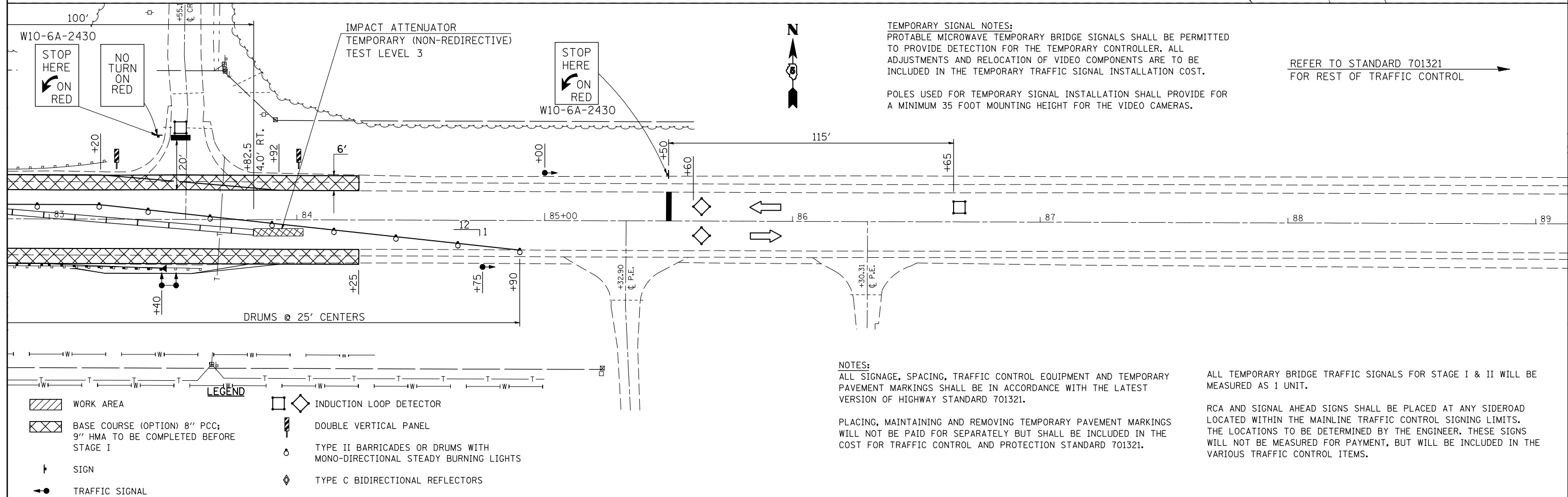
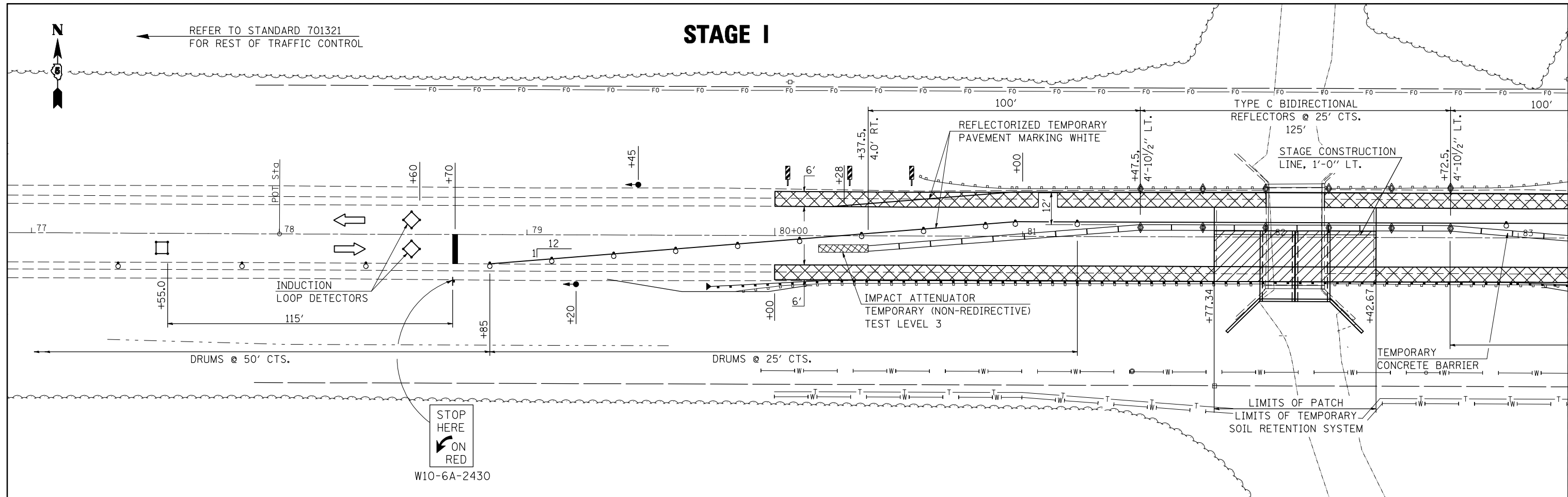
An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO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

BBS, from 137 (Rev. 8-99)

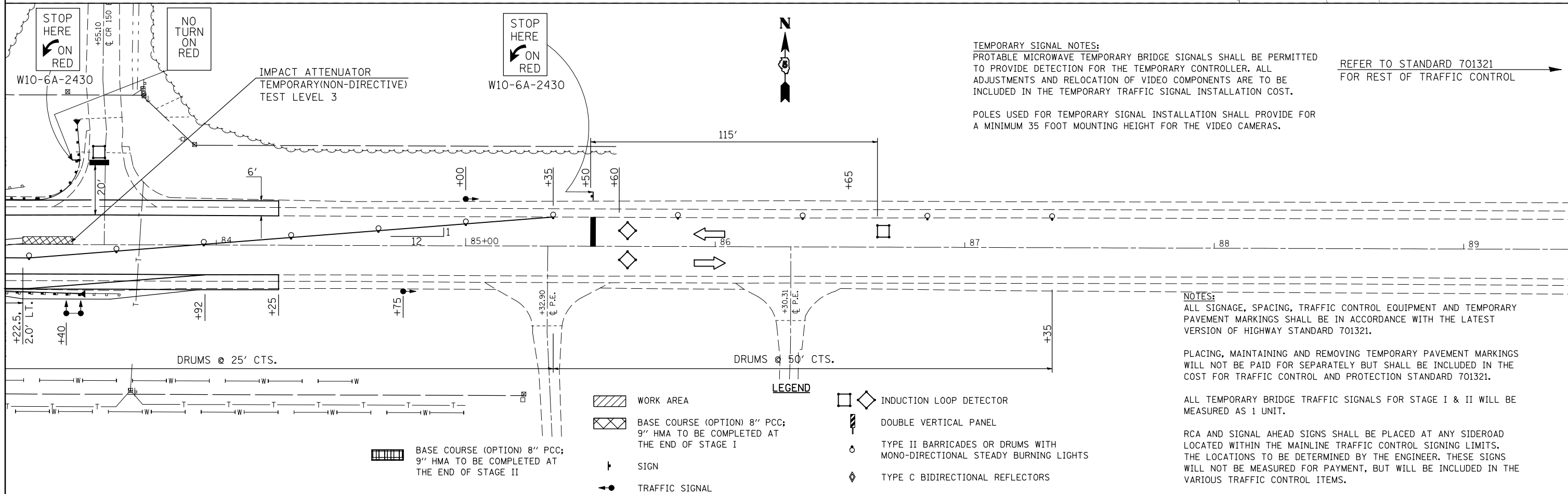
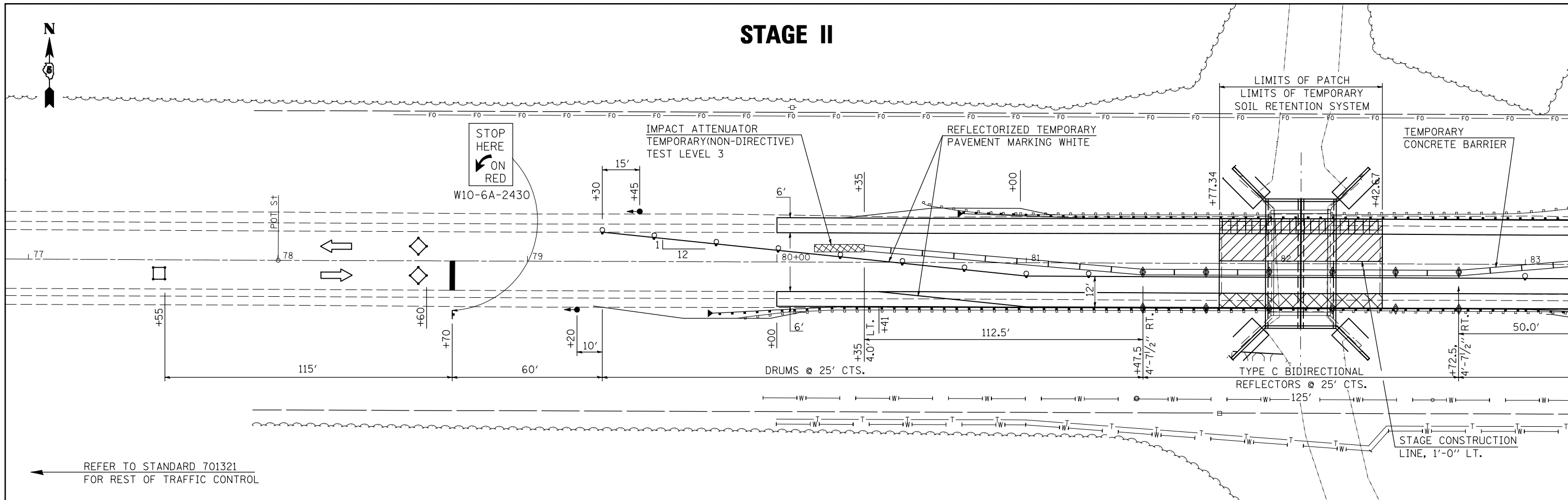
BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce\pwwork\pwwork\IDOT\CEARLOCKJD\0110229\4754SOILBORING.DGN		DRAWN -	REVISED -			323	(143BR)BR	Douglas	68	16
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 70223		ILLINOIS FED. AID PROJECT		
PLOT DATE = 12/17/2009		DATE -	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

STAGE I

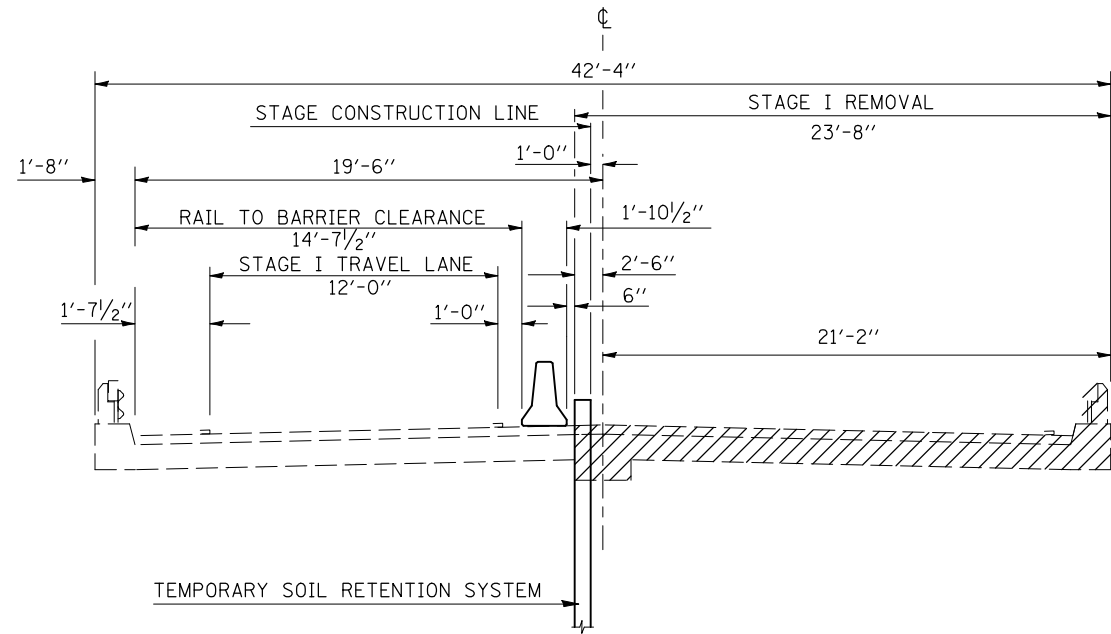


STAGE II

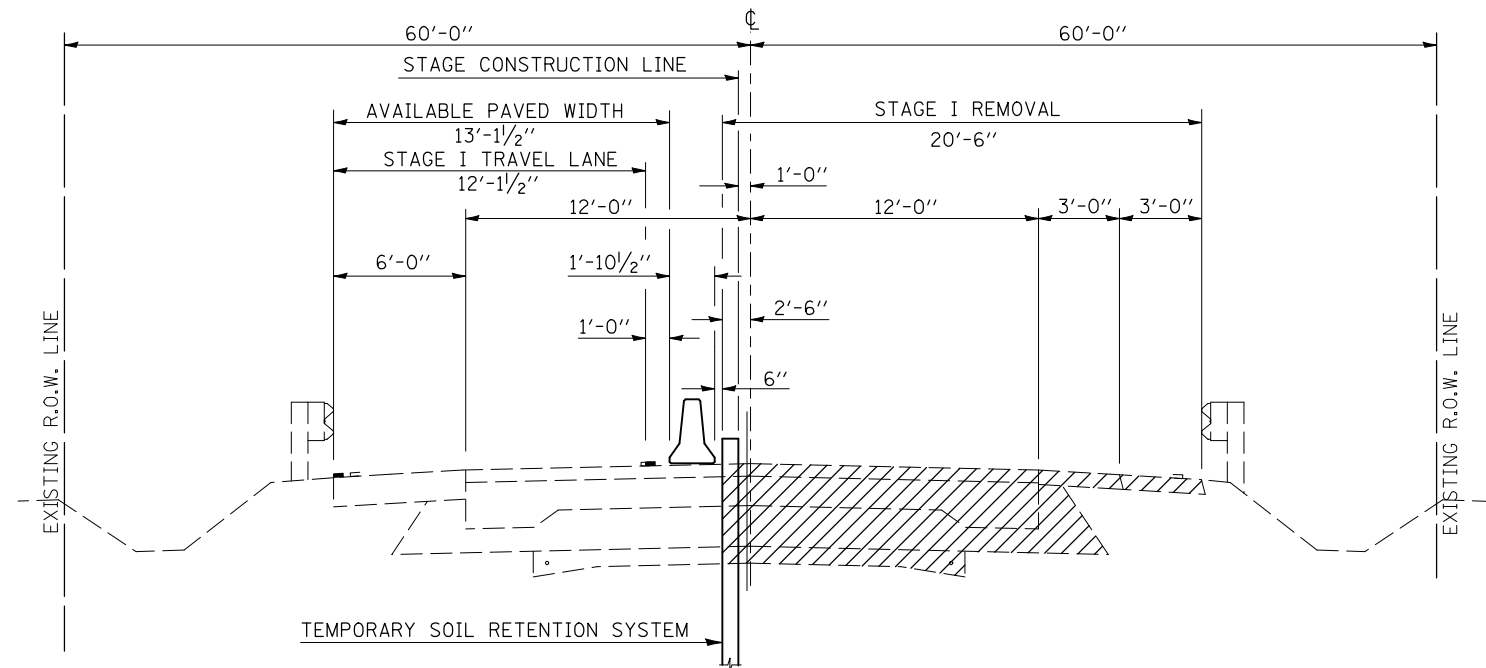


FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL & PROTECTION STAGE II F.A.P. ROUTE 323 (U.S. ROUTE 367)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\pw\work\PWID001\CEARLOCKJD\0110229\10570223\sh-t\staging.dgn		DRAWN -	REVISED -		323	(143BR)BR	DOUGLAS	68	18			
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 70223							
PLOT DATE = 12/17/2009		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

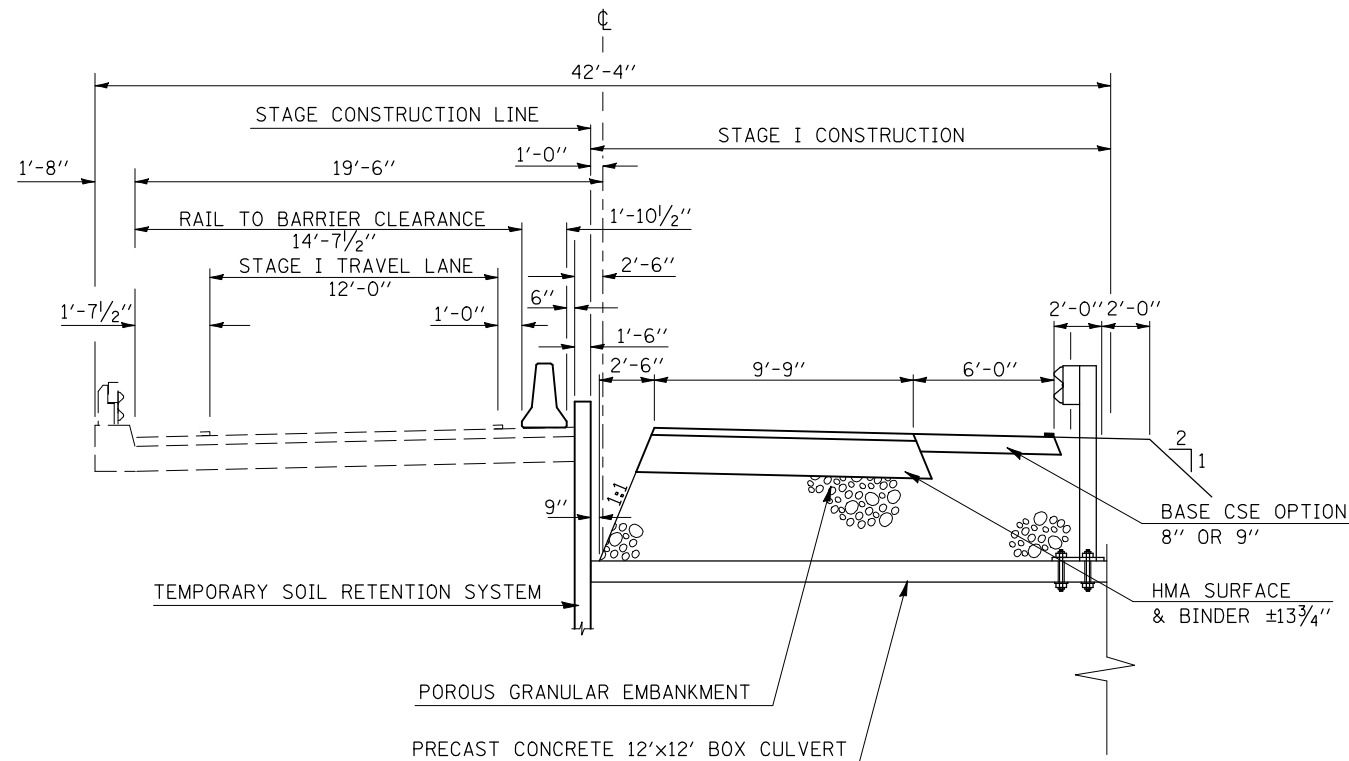
**STAGE I REMOVAL DETAIL
S.N. 021-0016 BRIDGE**



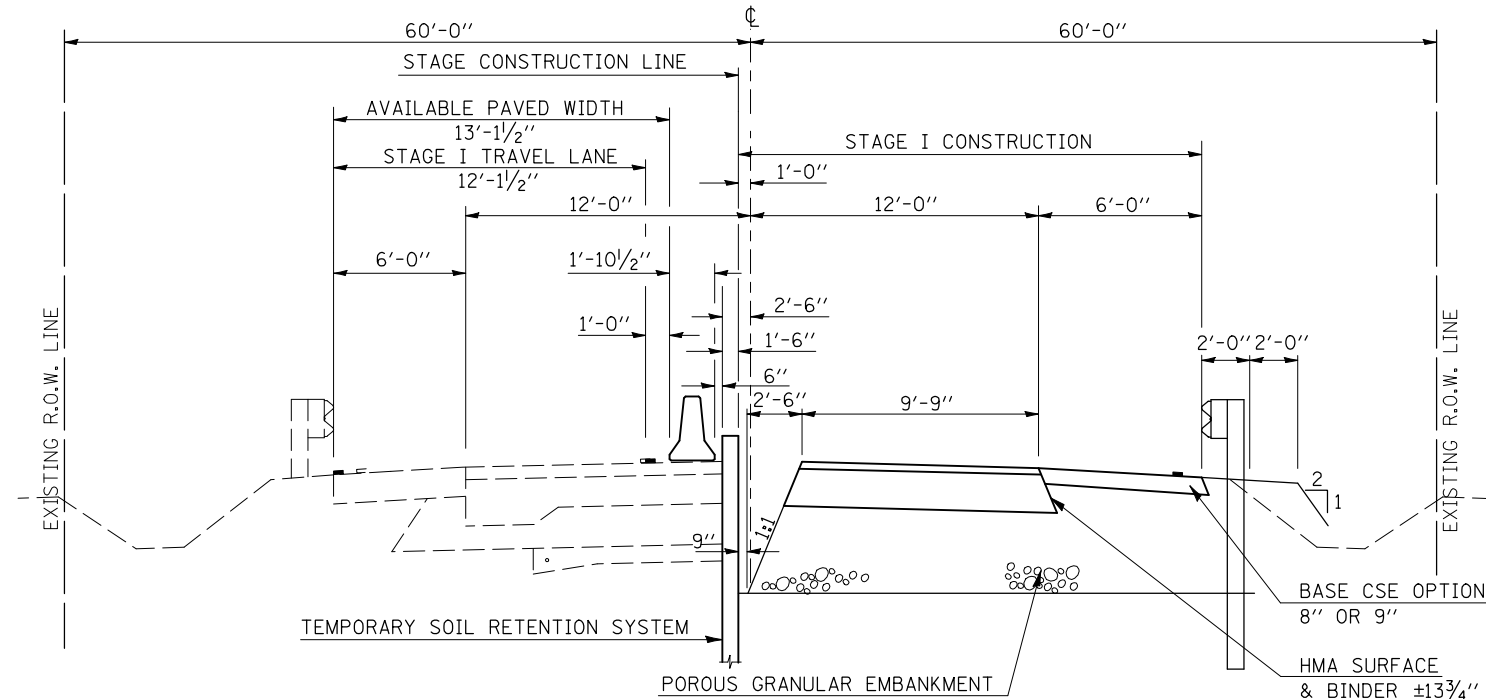
**STAGE I REMOVAL DETAIL
ROADWAY**



**STAGE I CONSTRUCTION DETAIL
S.N. 021-2027 BOX CULVERT**



**STAGE I CONSTRUCTION DETAIL
ROADWAY**



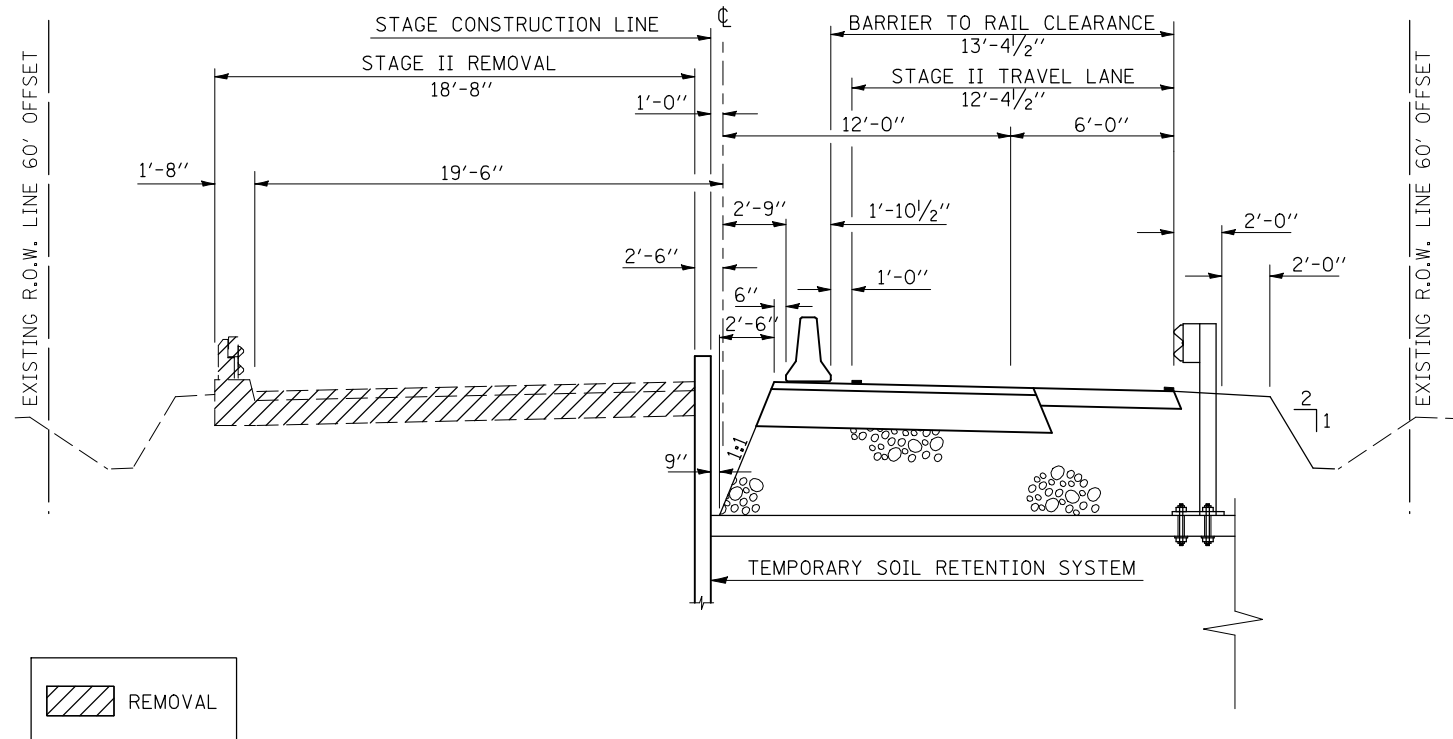
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PLOT SCALE = 40.0000 ' / IN.		CHECKED -	REVISED -
PLOT DATE = 12/17/2009		DATE - 12-19-08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

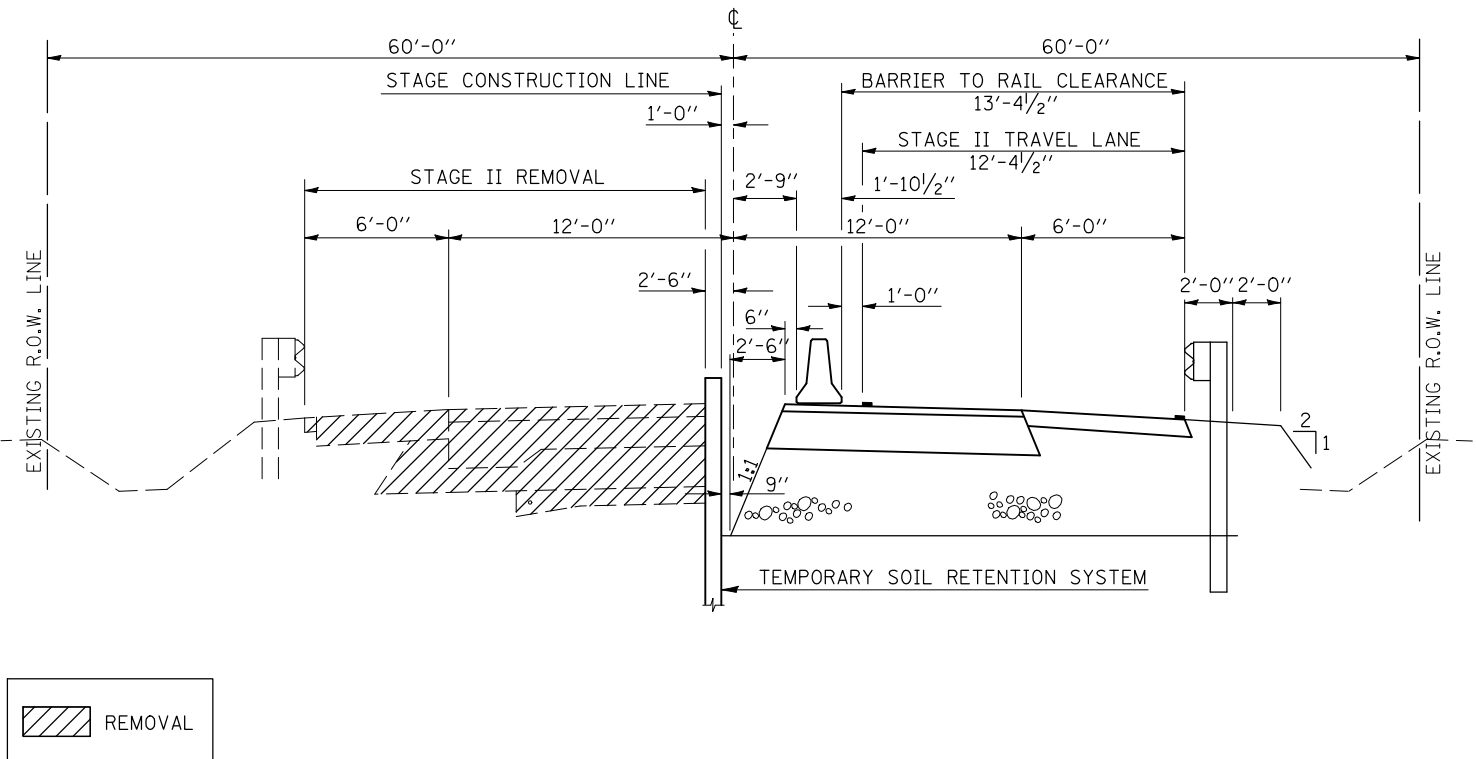
STAGE I REMOVAL & CONSTRUCTION DETAILS			
SCALE: NA	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	19
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

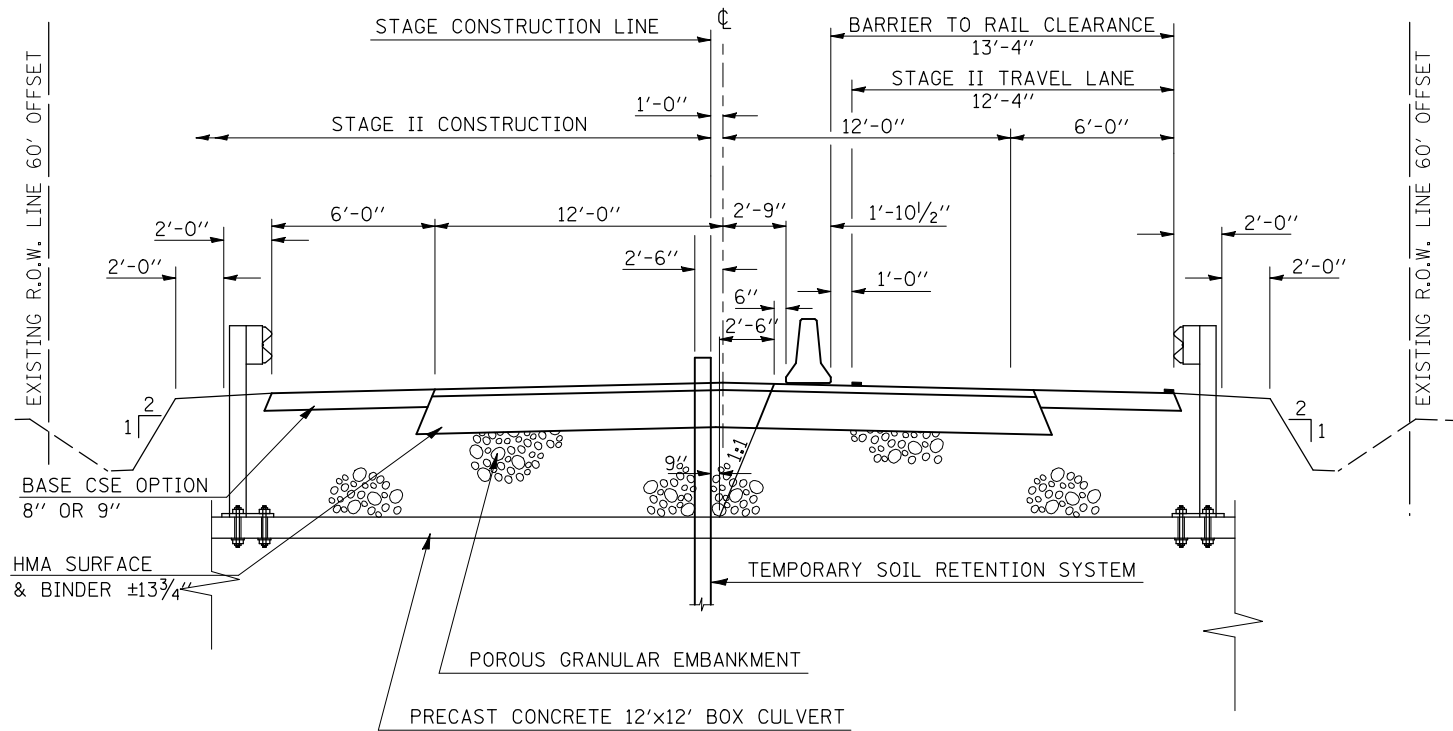
STAGE II REMOVAL DETAIL
S.N. 021-0016 BRIDGE



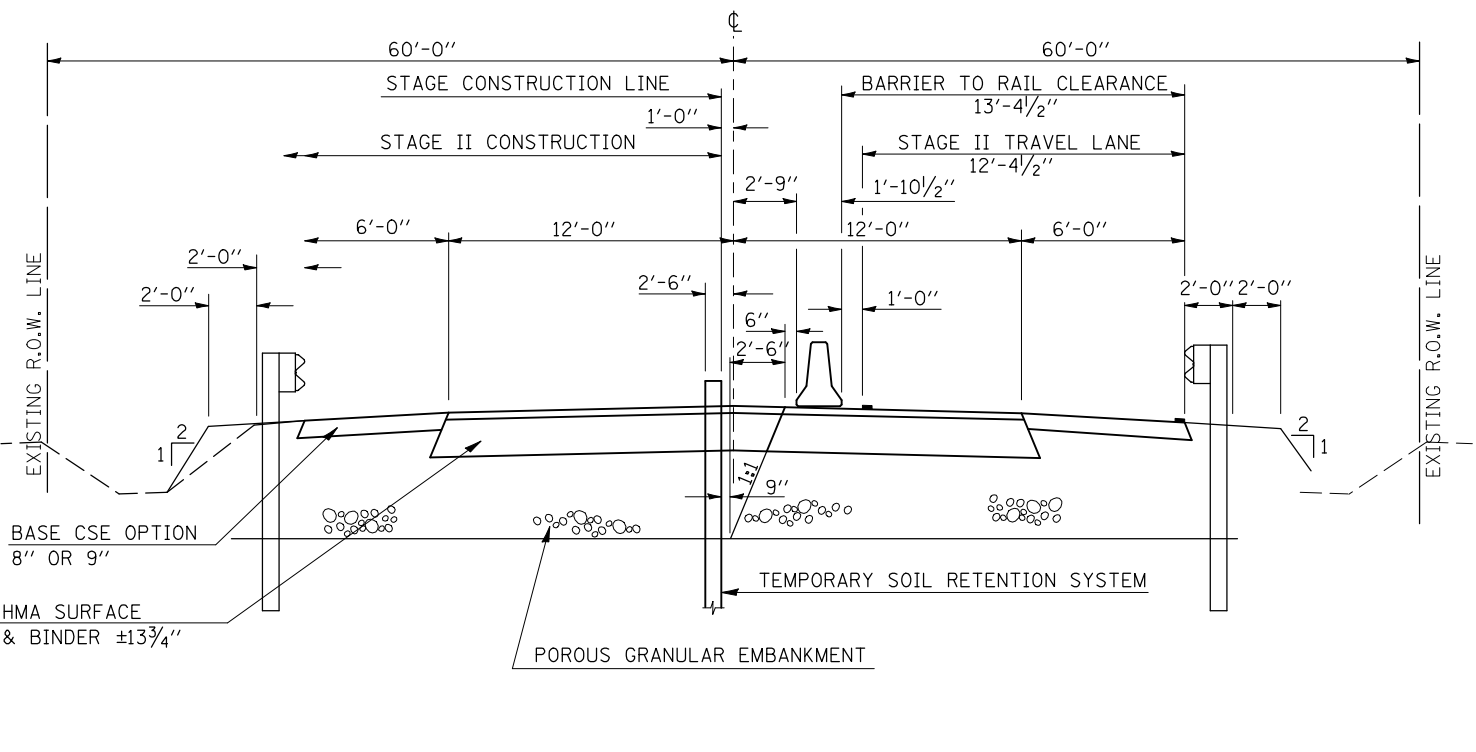
STAGE II REMOVAL DETAIL
ROADWAY



STAGE II CONSTRUCTION DETAIL
S.N. 021-2027 BOX CULVERT



STAGE II CONSTRUCTION DETAIL
ROADWAY



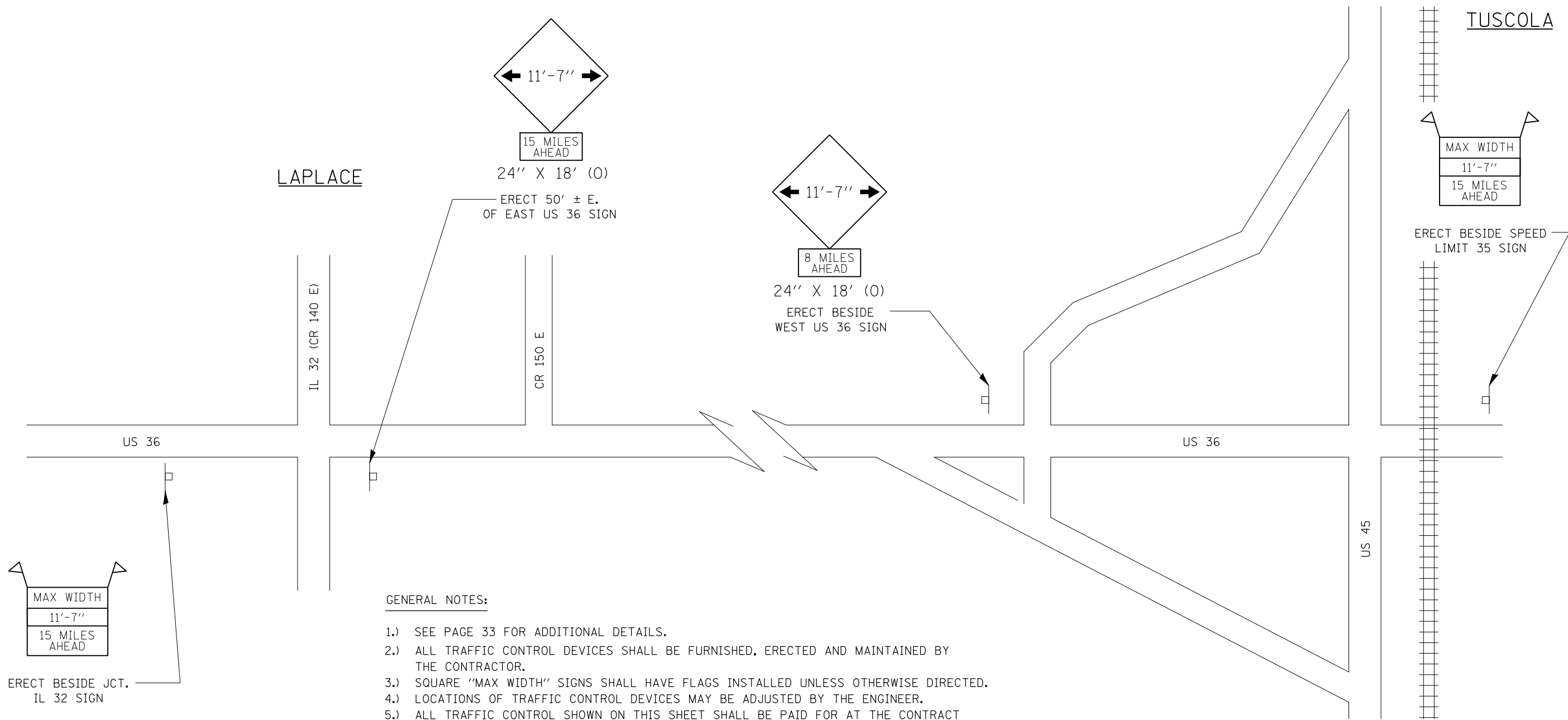
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PLOT DATE = 12/17/2009		DATE - 12-19-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II REMOVAL & CONSTRUCTION DETAILS

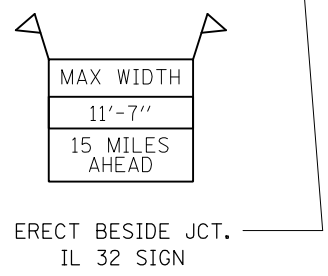
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	20
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



GENERAL NOTES:

- 1.) SEE PAGE 33 FOR ADDITIONAL DETAILS.
- 2.) ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
- 3.) SQUARE "MAX WIDTH" SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
- 4.) LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
- 5.) ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
- 6.) THE ILLINOIS DEPARTMENT OF TRANSPORTATION WILL SUPPLY ALL "ROUTE MARKER" SIGNS, IF APPLICABLE. THE CONTRACTOR SHALL NOTIFY THE DISTRICT BUREAU OF OPERATIONS A MINIMUM OF 10 WORKING DAYS PRIOR TO PLACEMENT OF WIDTH RESTRICTION SIGNING TO ENSURE AVAILABILITY OF FABRICATION OF THE "ROUTE MARKER" SIGNS.
- 7.) ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
- 8.) ALL SIGNS SHOWN ORANGE SHALL BE FLUORESCENT ORANGE.
- 9.) SIGNS SHALL BE INSTALLED AT THE FOLLOWING MINIMUM HEIGHTS:
 RURAL 5'-0" (1.52 m) (MIN.)
 URBAN 5'-0" (1.52 m) (MIN.)



ERECT BESIDE JCT.
IL 32 SIGN

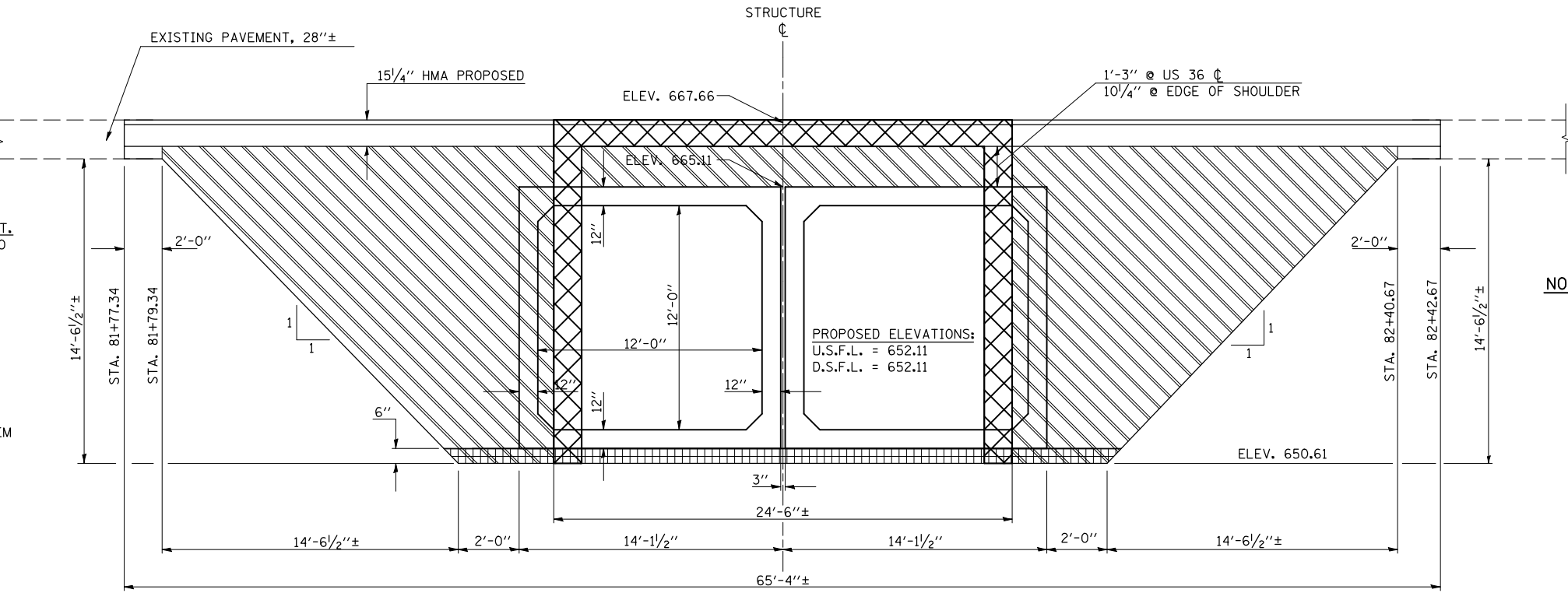
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	PLOT SCALE = 40.0000' / IN.	DRAWN - BBP	REVISIED -					323	(143BR)BR	DOUGLAS	68	21
PLOT DATE = 12/17/2009	CHECKED -	REVISIED -	REVISIED -	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
	DATE - 04/13/09	REVISIED -								CONTRACT NO. 70223		

DETAIL OF TEMPORARY SOIL RETENTION SYSTEM PROPOSED S.N. 021-2027 @ STA. 82+10.00

BILL OF MATERIAL

ITEM	UNIT	QUANT.
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	400.0

- TEMPORARY SOIL RETENTION SYSTEM
- EXISTING STRUCTURE REMOVAL



NOTES:
 1. A CANTILEVERED SHEET PILING DESIGN IS NOT FEASIBLE. ANOTHER RETENTION SYSTEM IS NECESSARY. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.

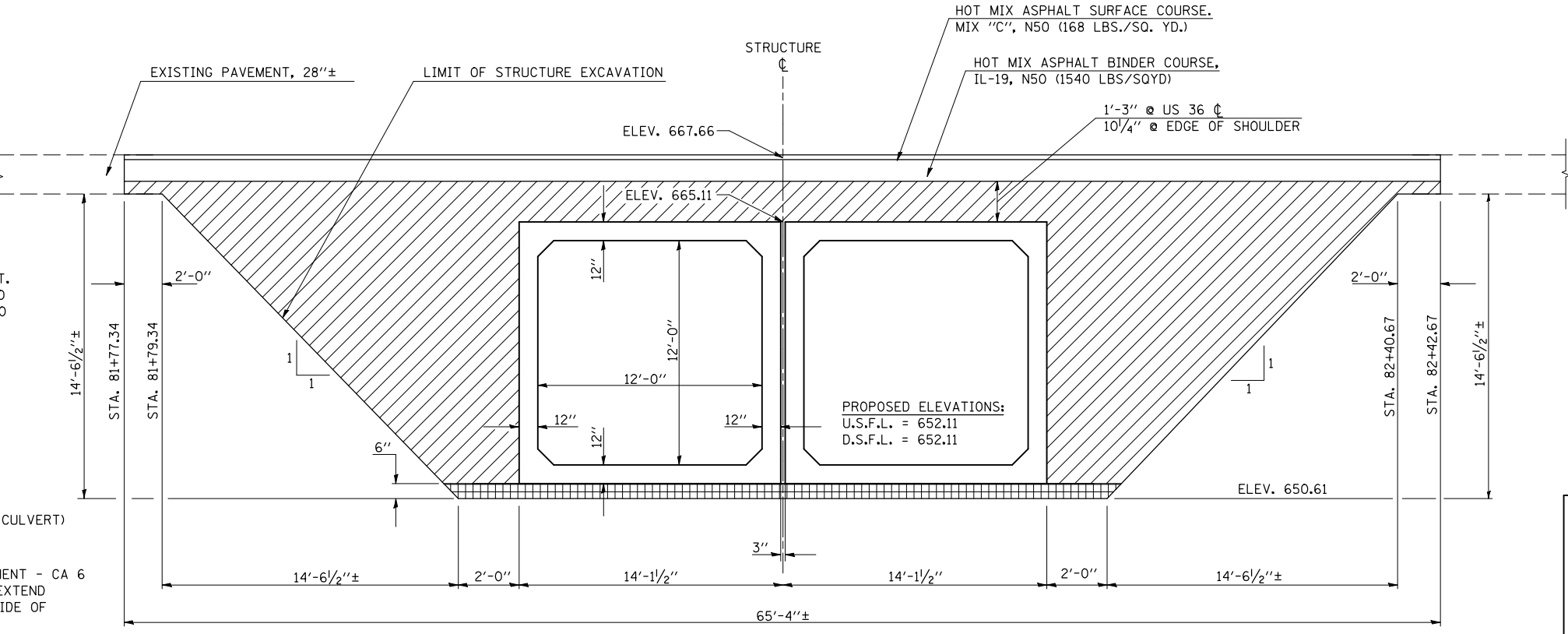
DETAIL OF POROUS GRANULAR AT PROP. S.N. 021-2027 AT STA. 82+10.00

BILL OF MATERIAL

ITEM	UNIT	QUANT.
POROUS GRANULAR EMBANKMENT	CU YD	523.0
STRUCTURE EXCAVATION *	CU YD	1285.0

* FOR INFORMATION ONLY (THIS WORK SHALL BE INCLUDED IN THE PRECAST BOX AND CAST IN PLACE END SECTION PAY ITEMS - SEE SPECIAL PROVISIONS)

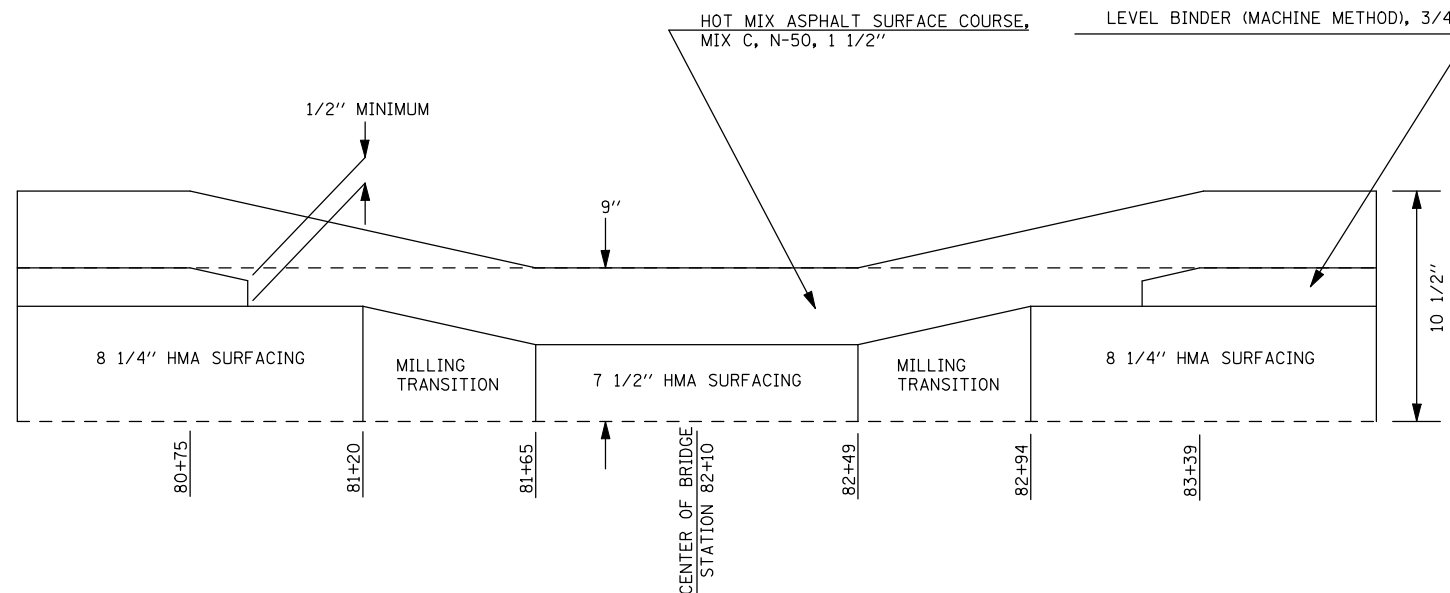
- POROUS GRANULAR MATERIAL - CA 7 (6") (INCLUDED IN PAY ITEM FOR PRECAST BOX CULVERT)
- PAY LIMITS OF POROUS GRANULAR EMBANKMENT - CA 6
 NOTE: POROUS GRANULAR BACKFILL SHALL EXTEND 20'-0" EACH SIDE OF CENTERLINE; 2' OUTSIDE OF AGGREGATE SHOULDER.



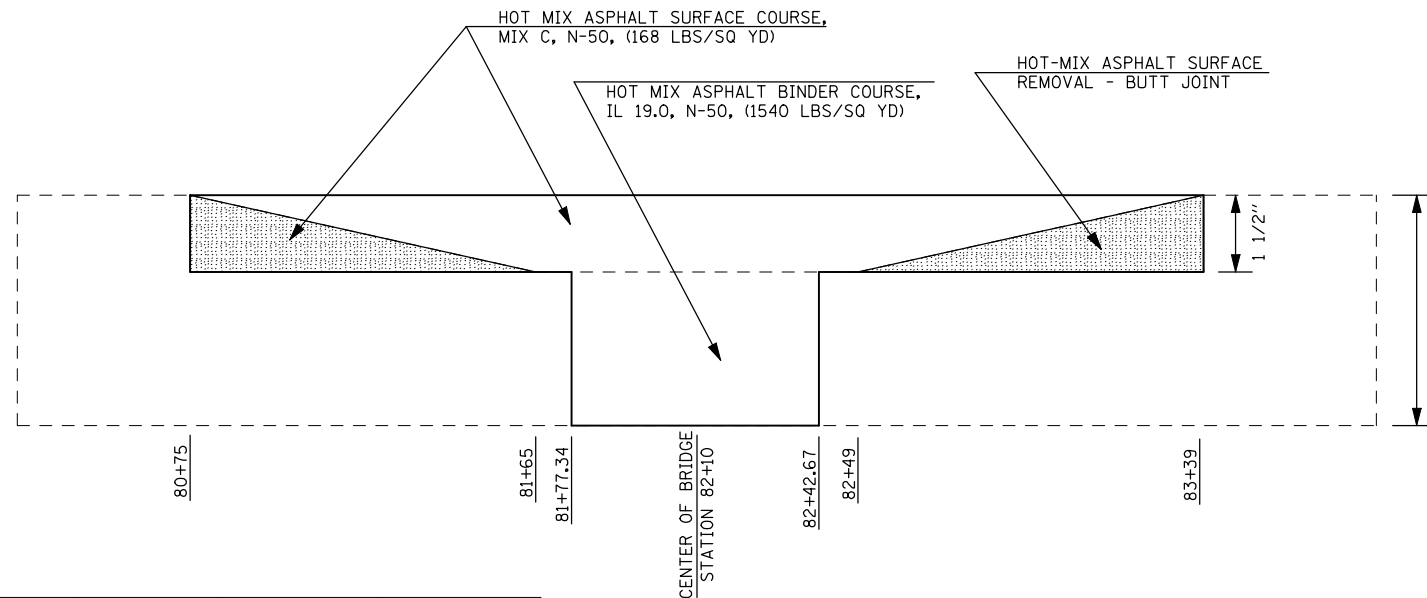
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS
PROPOSED S.N. 021-2027
 F.A.P. 323 (US 36)
 SECTION (143BR)BR
 DOUGLAS COUNTY
 CONTRACT NO. 70223

HOT-MIX ASPHALT SURFACE REMOVAL AND HOT-MIX ASPHALT DETAILS

DETAIL OF EXISTING RUNDOWNS AT STRUCTURE 021-0016



DETAIL OF PROPOSED PAVEMENT PROFILE AT STRUCTURE 021-0016

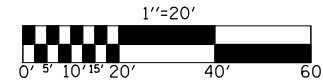


STATION	STATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SQ YD)	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HMA BINDER COURSE, IL 19.0, N50	HMA SURFACE COURSE, MIX "C", N50	HMA SURFACE REMOVAL- BUTT JOINT
					40600100 (GAL)	40600200 (TON)	40603080 (TON)	40603310 (TON)	40600982 (SQ YD)
80+75.00	TO 81+77.34	102.34	36.00	409.36	41.00	0.85	0.00	35.00	410.00
81+77.34	TO 82+42.67	65.33	24.00	174.21	105.00	0.35	135.00	16.00	0.00
82+42.67	TO 83+39.00	96.33	36.00	385.32	39.00	0.80	0.00	34.00	385.00
TOTALS=				968.89	185.00	2.00	135.00	85.00	795.00

GENERAL NOTES

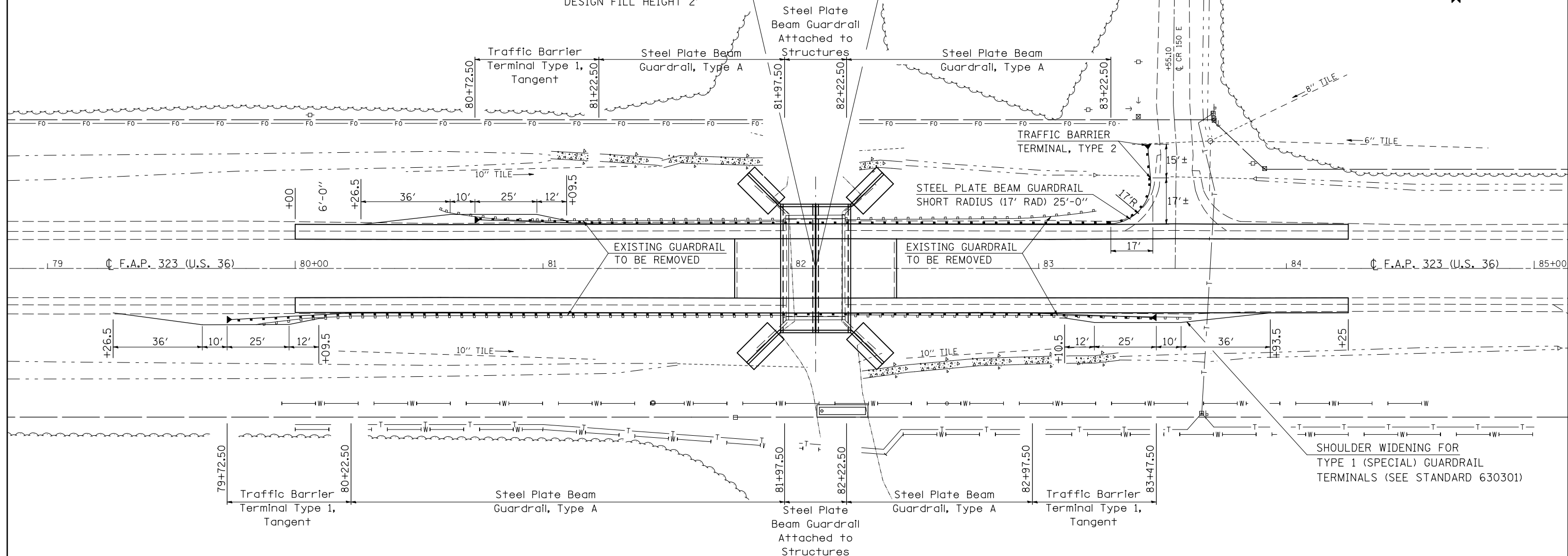
PLAN DIMENSIONS AND DETAILS RELATIVE TO THE STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE THE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE CONTRACT UNIT PRICE FOR THE WORK.

SEC. 31, T. 16 N., R. 7 E., 3rd P.M.



PROPOSED S.N. 021-2027
 DOUBLE 12' X 12' X 52'
 PRECAST BOX CULVERT (M273)
 STA. 82+10.00, 0° SKEW
 DESIGN FILL HEIGHT 2'

EXISTING S.N. 021-0016
 SINGLE SPAN REINFORCED CONCRETE SLAB
 STA. 82+10.00, 0° SKEW
 24'-6" BK TO BK ABUTMENT



SHOULDER WIDENING FOR
 TYPE 1 (SPECIAL) GUARDRAIL
 TERMINALS (SEE STANDARD 630301)

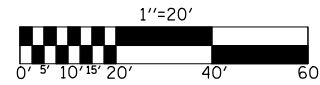
STATION	STATION	OFFSET	GUARDRAIL REMOVAL 63200310 (FOOT)	STEEL PLATE BEAM GUARDRAIL 63000001 (FOOT)	STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURES 63000025 (FOOT)	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) (17' RADIUS) 63300725 (FOOT)	TRAFFIC BARRIER TERMINAL TYPE 1, (SPECIAL) TANGENT 63100167 (EACH)	TRAFFIC BARRIER TERMINAL TYPE 2 63100045 (EACH)
80+72.50	TO 81+22.50	LT					1.0	
81+22.50	TO 81+97.50	LT		75.0				
81+97.50	TO 82+22.50	LT			25.0			
82+22.50	TO 83+22.50	LT		100.0				
83+22.50	TO 83+39.50	LT				25.0		
83+39.50	TO 83+39.50	LT						1.0
79+72.50	TO 80+22.50	RT					1.0	
80+22.50	TO 81+97.50	RT		175.0				
81+97.50	TO 82+22.50	RT			25.0			
82+22.50	TO 82+97.50	RT		75.0				
82+97.50	TO 83+47.50	RT					1.0	
80+57.60	TO 83+20.90	LT	262.5					
79+87.40	TO 83+62.40	RT	375.0					
TOTALS =			637.5	425.0	50.0	25.0	3.0	1.0

STATION	STATION	OFFSET	LENGTH (FEET)	GUARDRAIL MARKERS 78200405 (EACH)
80+72.50	TO 83+39.50	LT	290.0'	5.0
79+72.50	TO 83+47.50	RT	375.0'	6.0
TOTALS =				11.0

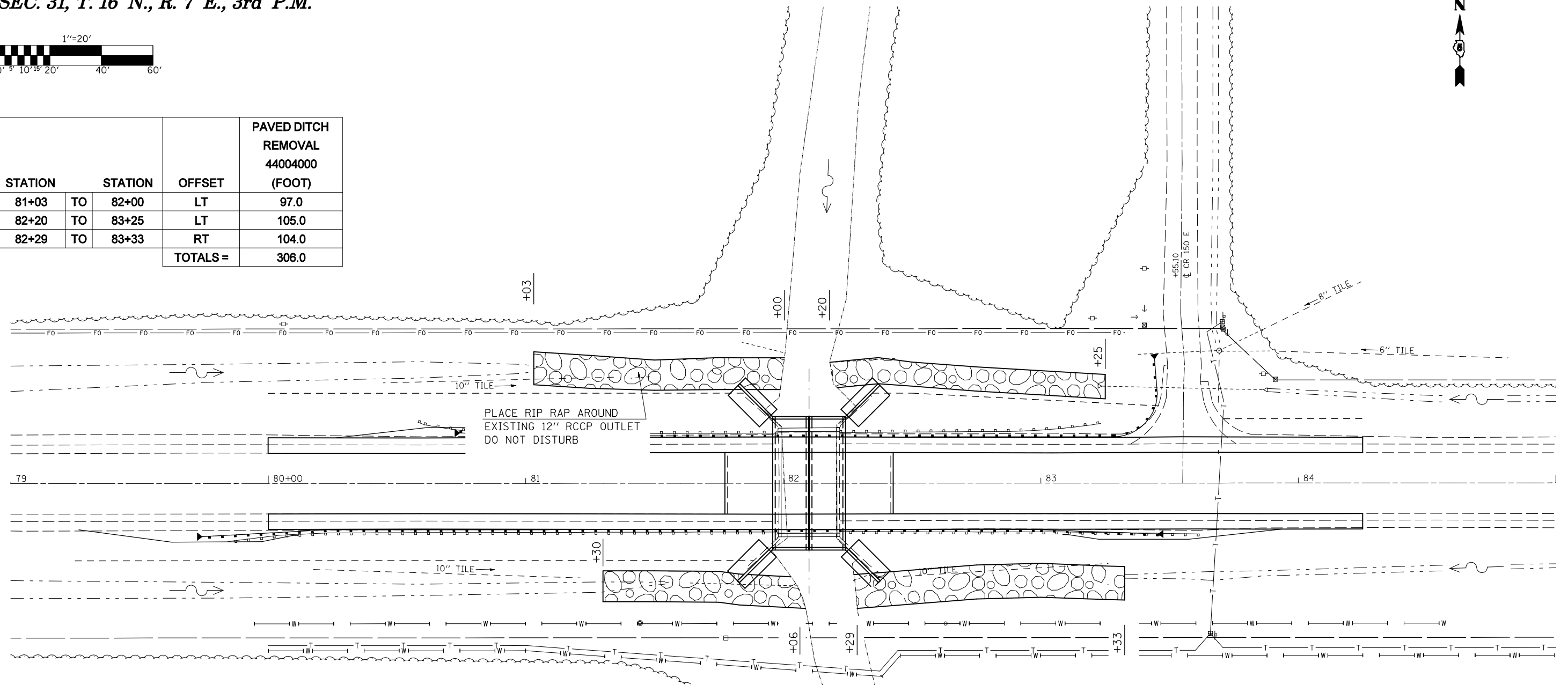
STATION	OFFSET	TERMINAL MARKERS - DA 78201000 (EACH)
79+72.50	RT	1.0
80+72.50	LT	1.0
83+47.50	RT	1.0
TOTALS =		3.0

SEC. 5, T. 15 N., R. 7 E., 3rd P.M.

SEC. 31, T. 16 N., R. 7 E., 3rd P.M.



STATION	STATION	OFFSET	PAVED DITCH REMOVAL 44004000 (FOOT)
81+03	TO 82+00	LT	97.0
82+20	TO 83+25	LT	105.0
82+29	TO 83+33	RT	104.0
TOTALS =			306.0



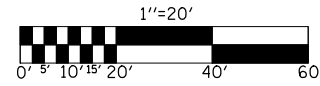
STATION	TO	STATION	OFFSET	LENGTH (FEET)	CONTOUR WIDTH (FEET)	FILTER FABRIC 28200200 (SQ YD)	STONE RIPRAP	STONE RIPRAP CLASS A4 (TONS)	BEDDING STONE (TONS)
							CLASS A4 28100107 (SQ YD)		
81+03		82+00	LT	97.00	14.00	151.00	151.00	100.67	45.30
81+30		82+06	RT	76.00	12.00	102.00	102.00	68.00	30.60
82+20		83+25	LT	105.00	10.00	117.00	117.00	78.00	35.10
82+29		83+33	RT	104.00	14.00	162.00	162.00	108.00	48.60
TOTALS =						532.00	532.00	354.67	159.60

STONE RIPRAP, CLASS A4, 16" WITH 6" OF A1 BEDDING STONE AND FILTER FABRIC. SEE ART. 281.04 (A)

NOTES:

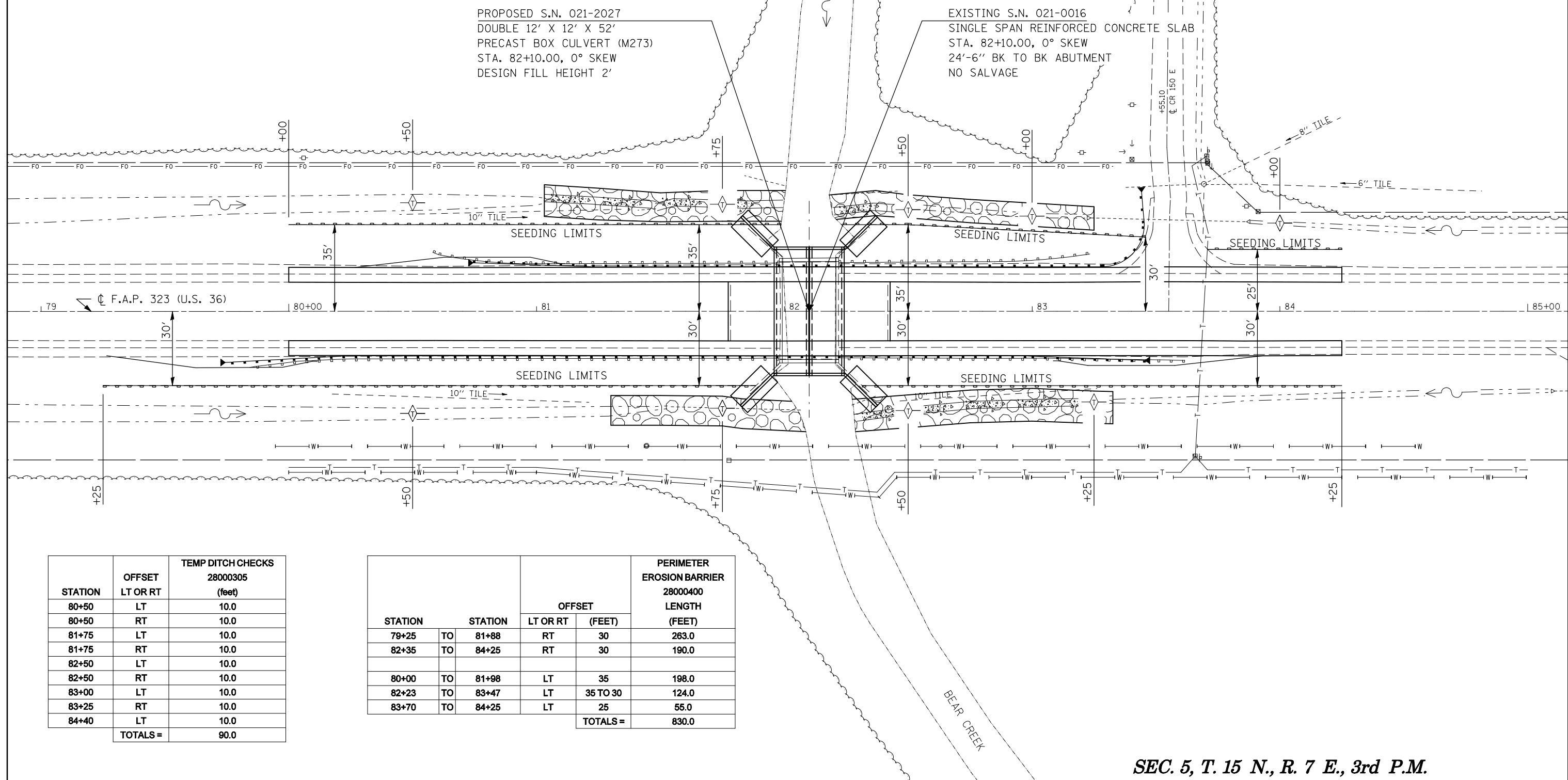
1. STONE RIPRAP AND BEDDING STONE TONAGE QUANTITIES ARE AN ESTIMATE AND FOR INFORMATION ONLY.
2. STONE RIPRAP IS ESTIMATED BASED ON 1.5 TONS PER CU YD.
3. BEDDING STONE IS ESTIMATED BASED ON 1.8 TONS PER CU YD.

SEC. 5, T. 15 N., R. 7 E., 3rd P.M.



LEGEND

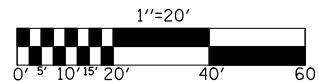
- TEMPORARY DITCH CHECK
- SUMMIT
- ROADWAY DITCH FLOW
- INLET AND PIPE PROTECTION
- ITEM PLACED AT BEGINNING OF CONSTRUCTION (REQUIREMENT)
- SEDIMENT BASIN
- PERIMETER EROSION BARRIER



STATION	OFFSET LT OR RT	TEMP DITCH CHECKS 28000305 (feet)
80+50	LT	10.0
80+50	RT	10.0
81+75	LT	10.0
81+75	RT	10.0
82+50	LT	10.0
82+50	RT	10.0
83+00	LT	10.0
83+25	RT	10.0
84+40	LT	10.0
TOTALS =		90.0

STATION		STATION		OFFSET		PERIMETER EROSION BARRIER 28000400 LENGTH (FEET)
TO	FROM	TO	FROM	LT OR RT	(FEET)	
79+25	TO	81+88	FROM	RT	30	263.0
82+35	TO	84+25	FROM	RT	30	190.0
80+00	TO	81+98	FROM	LT	35	198.0
82+23	TO	83+47	FROM	LT	35 TO 30	124.0
83+70	TO	84+25	FROM	LT	25	55.0
TOTALS =						830.0

SEC. 31, T. 16 N., R. 7 E., 3rd P.M.

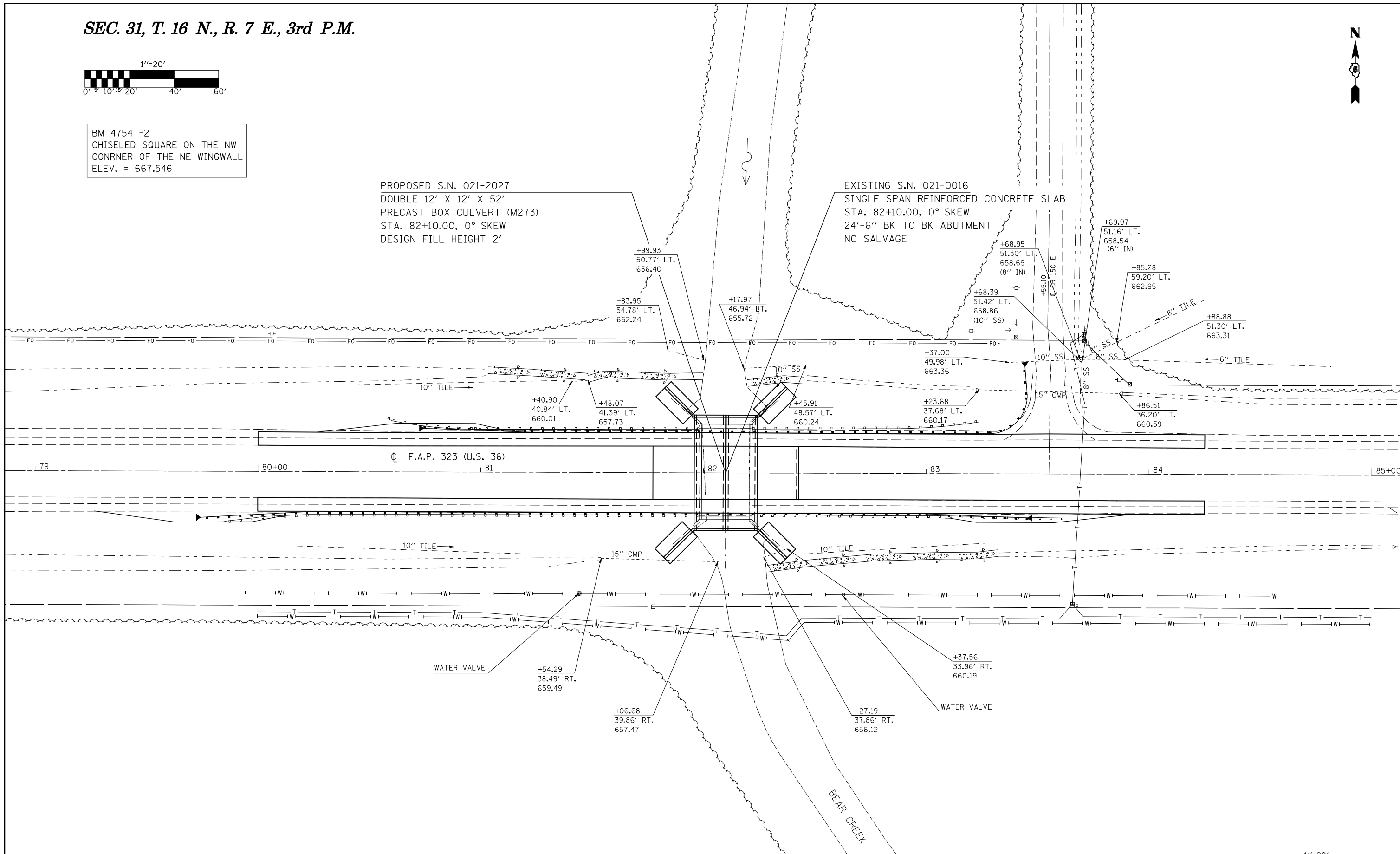


BM 4754 -2
CHISELED SQUARE ON THE NW
CONRNER OF THE NE WINGWALL
ELEV. = 667.546

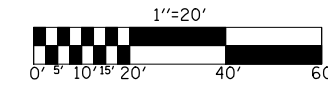


PROPOSED S.N. 021-2027
DOUBLE 12' X 12' X 52'
PRECAST BOX CULVERT (M273)
STA. 82+10.00, 0° SKEW
DESIGN FILL HEIGHT 2'

EXISTING S.N. 021-0016
SINGLE SPAN REINFORCED CONCRETE SLAB
STA. 82+10.00, 0° SKEW
24'-6" BK TO BK ABUTMENT
NO SALVAGE



SEC. 5, T. 15 N., R. 7 E., 3rd P.M.



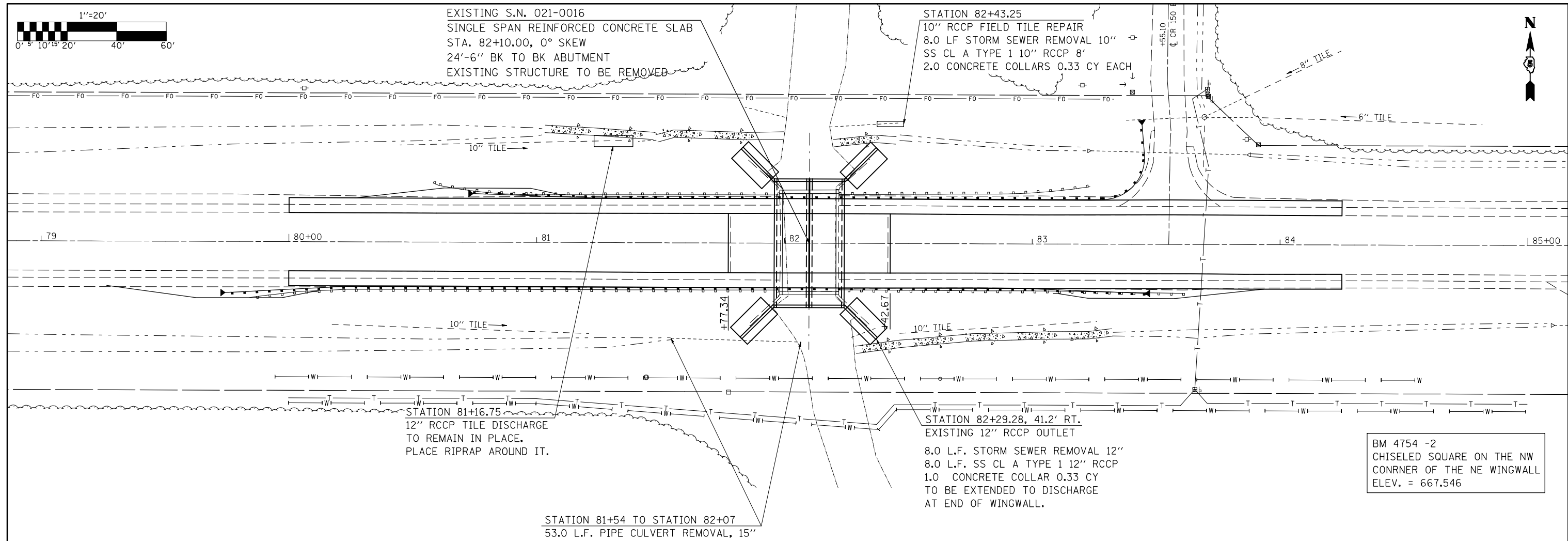
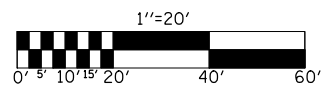
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING FIELD TILE PLAN SHEET

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	27
CONTRACT NO. 70223				
ILLINOIS FED. AID PROJECT				



EXISTING S.N. 021-0016
 SINGLE SPAN REINFORCED CONCRETE SLAB
 STA. 82+10.00, 0° SKEW
 24'-6" BK TO BK ABUTMENT
 EXISTING STRUCTURE TO BE REMOVED

STATION 82+43.25
 10" RCCP FIELD TILE REPAIR
 8.0 LF STORM SEWER REMOVAL 10" 8'
 SS CL A TYPE 1 10" RCCP 8'
 2.0 CONCRETE COLLARS 0.33 CY EACH

STATION 81+16.75
 12" RCCP TILE DISCHARGE
 TO REMAIN IN PLACE.
 PLACE RIPRAP AROUND IT.

STATION 82+29.28, 41.2' RT.
 EXISTING 12" RCCP OUTLET
 8.0 L.F. STORM SEWER REMOVAL 12"
 8.0 L.F. SS CL A TYPE 1 12" RCCP
 1.0 CONCRETE COLLAR 0.33 CY
 TO BE EXTENDED TO DISCHARGE
 AT END OF WINGWALL.

STATION 81+54 TO STATION 82+07
 53.0 L.F. PIPE CULVERT REMOVAL, 15"

BM 4754 -2
 CHISELED SQUARE ON THE NW
 CORNER OF THE NE WINGWALL
 ELEV. = 667.546

STATION	STATION	OFFSET	TRENCHES	EXPLORATORY TRENCHING, 52" 21301052 (FEET)
79+25	TO 82+00	RT	4 @ 15 FEET	60.0'
82+25	TO 84+00	RT	4 @ 15 FEET	60.0'
80+00	TO 82+00	LT	4 @ 15 FEET	60.0'
82+25	TO 83+50	LT	3 @ 15 FEET	45.0'
83+65	TO 84+25	LT	2 @ 15 FEET	30.0'
TOTALS =				255.0'

STATION	OFFSET	STORM SEWER REMOVAL, 12" 55100500 (FEET)	STORM SEWER CLASS A, TYPE 1, RCCP, 12" 550A0050 (FEET)	STORM SEWER REMOVAL, 10" 55100400 (FEET)	STORM SEWER CLASS A, TYPE 1, RCCP, 10" 550A0040 (FEET)	CONCRETE COLLAR 54248510 (CU YD)
82+29	RT	8.0	8.0			0.33
82+43	LT			8.0	8.0	0.67
TOTALS =		8.0	8.0	8.0	8.0	1.0

NOTE: See the EXISTING FIELD TILE PLAN DETAIL SHEET for locations.
 Trench perpendicular to the existing tiles. These quantities are approximations.
 Caution must be used during embankment excavation to avoid damaging the field tile.

NOTE: Ensure that the existing field tile are still operational after constructing foreslope embankment.
 Inspect the downstream outlet before and after construction to compare and ensure equivalent discharge.

STATION	STATION	OFFSET	PIPE CULVERT REMOVAL 15" X0950100 (FOOT)
81+54	TO 82+07	RT	53.0
TOTALS =			53.0

THIS DETAIL IS INCLUDED FOR INFORMATION ONLY

B.M. Top of R.O.W. Marker Right
Sta. 71+90 Elev. 102.38

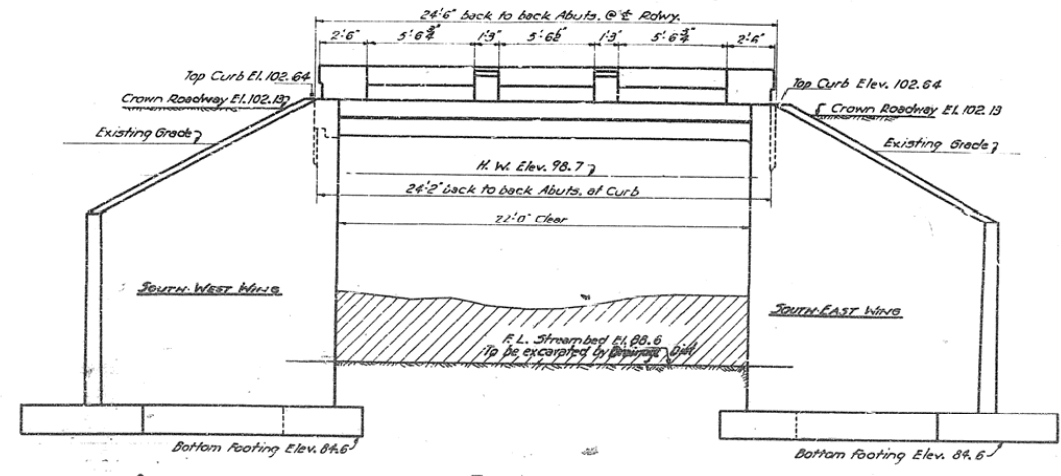
Existing Structure: 22'-0" R.C. 366'-39'-0" Roadway
on R.C. Substructure. To be removed
before new Bridge is built

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

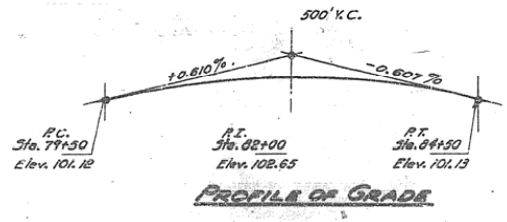
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
121	143 BR	DOUGLAS	11	4
SHEET NO. 1				
3 SHEETS				

GENERAL NOTES

Class X Concrete shall be used throughout except in Handrail.
Handrail Concrete shall be used in Handrails.
The concrete floor slab shall be finished in accordance with the
applicable provisions of (11.20) of the Standard Specifications.
The following surfaces of the bridge shall be waterproofed:
the back of abutments and wingwalls from ground line to the top of footing.
Waterproofing shall be done in accordance with Art. 51.20 of the Standard Specifications.
Drain Holes shall be constructed in accordance with Art. 51.15 of the Standard Specifications.
Boring Data are shown only, as a guide to bidders in estimating
soil conditions which may be encountered in the work.



ELEVATION
Scale: 1/4" = 1'-0"



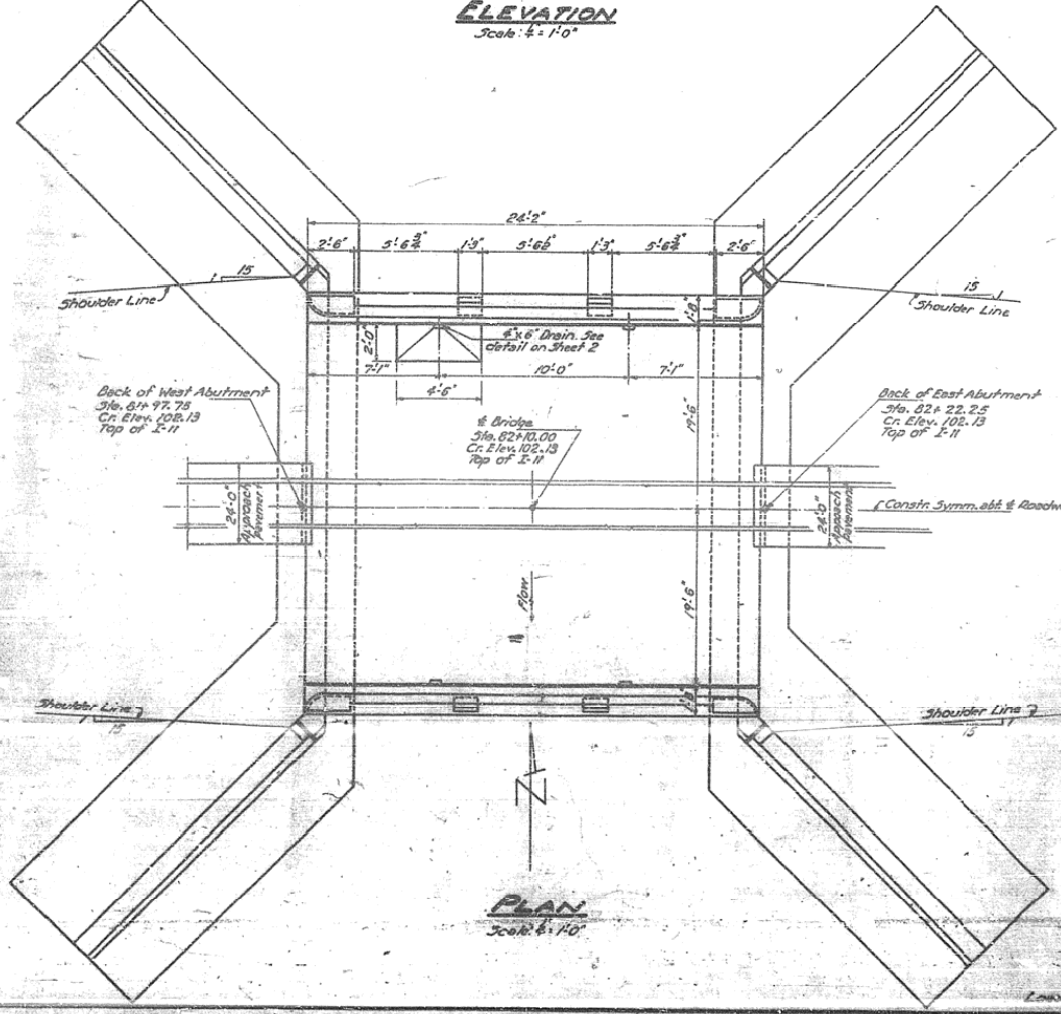
PROFILE OF GRADE

WATERWAY INFORMATION

Drainage Area: 30.80 Acres
Character: Level Cultivated
Required Opening (C=33 factor): 136 Sq. Ft.
Present Opening: 147 Sq. Ft.
Proposed Opening: 222 Sq. Ft.

DESIGN STRESSES

Jc - - - 1400 lbs./sq. in.
Jc - - - 800 lbs./sq. in. (Substr.)
Jc - - - 20000 lbs./sq. in. (Rein.)
n - - - 10



PLAN
Scale: 1/4" = 1'-0"

BORING	STATION	DEPTH	SOIL DESCRIPTION	ELEVATION
BORING 1	27+14.2	316.02+20	1'-0" Firm Yellow Clay	99.0
BORING 2	26+14.2	316.02+00	1'-0" Firm Yellow Clay	99.0
BORING 3	26+14.2	316.02+22	1'-0" Firm Yellow Clay	99.0
BORING 4	26+14.2	316.02+00	1'-0" Firm Yellow Clay	99.0

BORING DATA

Weight Hammer 170 Lbs.
Drop 2'-0"
n - number blows per foot
qu - unconfined compressive strength tons per sq. ft.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUB	TOTAL
Class-X Concrete	Cu. Yds.	64.0	148.8	192.8
Handrail Concrete	Cu. Yds.	1.3		1.3
Reinforcement Bars	Lbs.	10940	18840	24780
Removal of Existing Structure	Each		1	1
Name Plates	Each		1	1
Class-B Exc. For Structures	Cu. Yds.		124.0	124.0

STATION 82+10
BUILT 195 BY
STATE OF ILLINOIS
S.B.I. R. 121 - SEC. 143 BR
LOADING H20-516

LETTERING FOR NAME PLATE
See Standard 0113

GENERAL PLAN & ELEVATION
S.B.I. R. 121 - SEC. 143 BR
DOUGLAS COUNTY
STATION 82+10

DESIGNED	A. J. Sabatino
CHECKED	A. J. Sabatino
DRAWN	J. Miller
CHECKED	A. J. Sabatino

EXAMINED	W. B. Hamstra	DATE	April 27, 1954
PASSED			
APPROVED			

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - BJH 12/14/2009
ce:\pw\work\PIWDDT\CEARLOCKJD\0110229\70223details.dgn		DRAWN - JDC	REVISED -
		CHECKED -	REVISED -
		DATE - 1/08/09	REVISED -

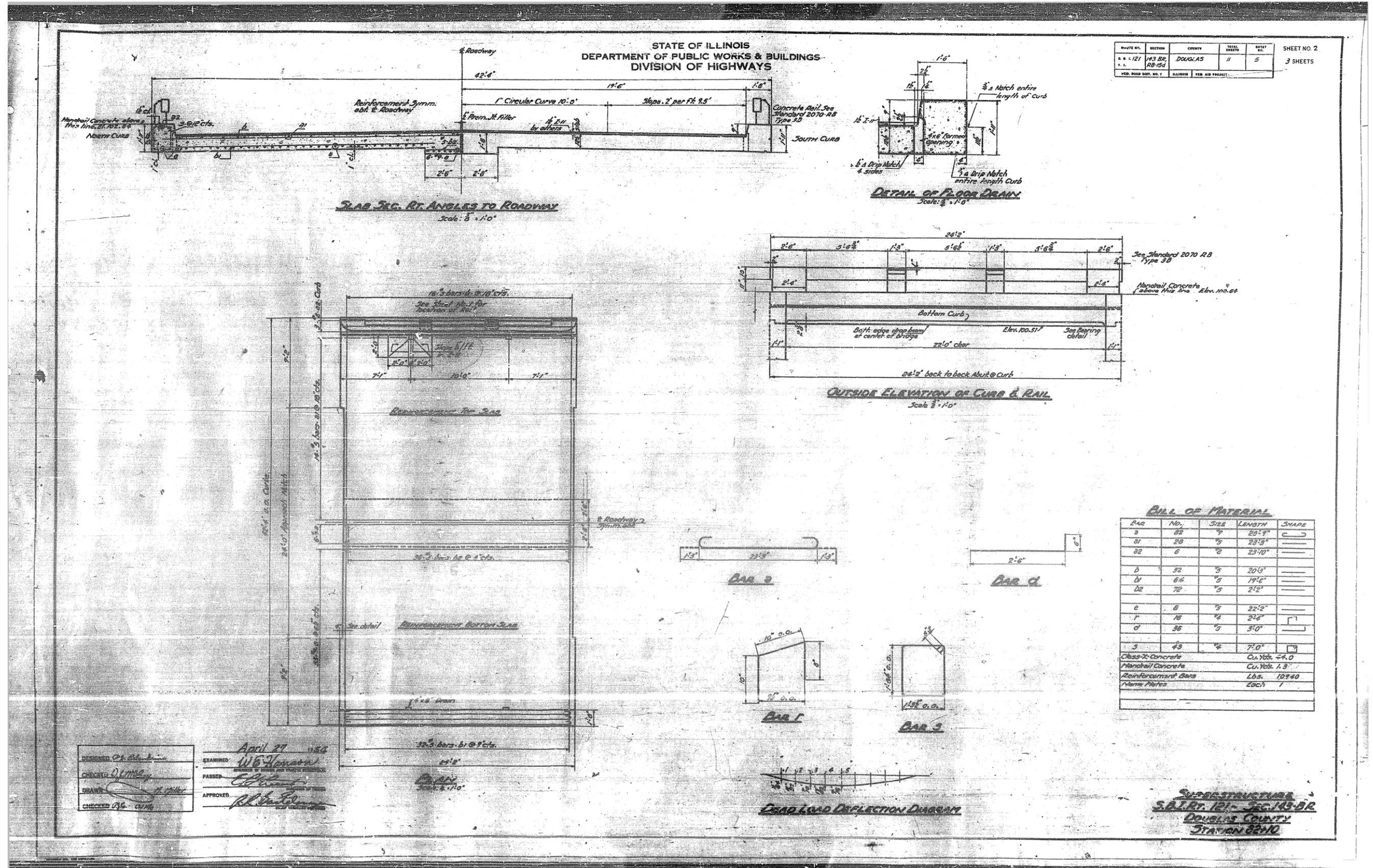
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	29
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

THIS DETAIL IS INCLUDED FOR INFORMATION ONLY



PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
121	143 BR	DOUGLAS	11	5	3 SHEETS
FED. ROAD DIST. NO. 7					

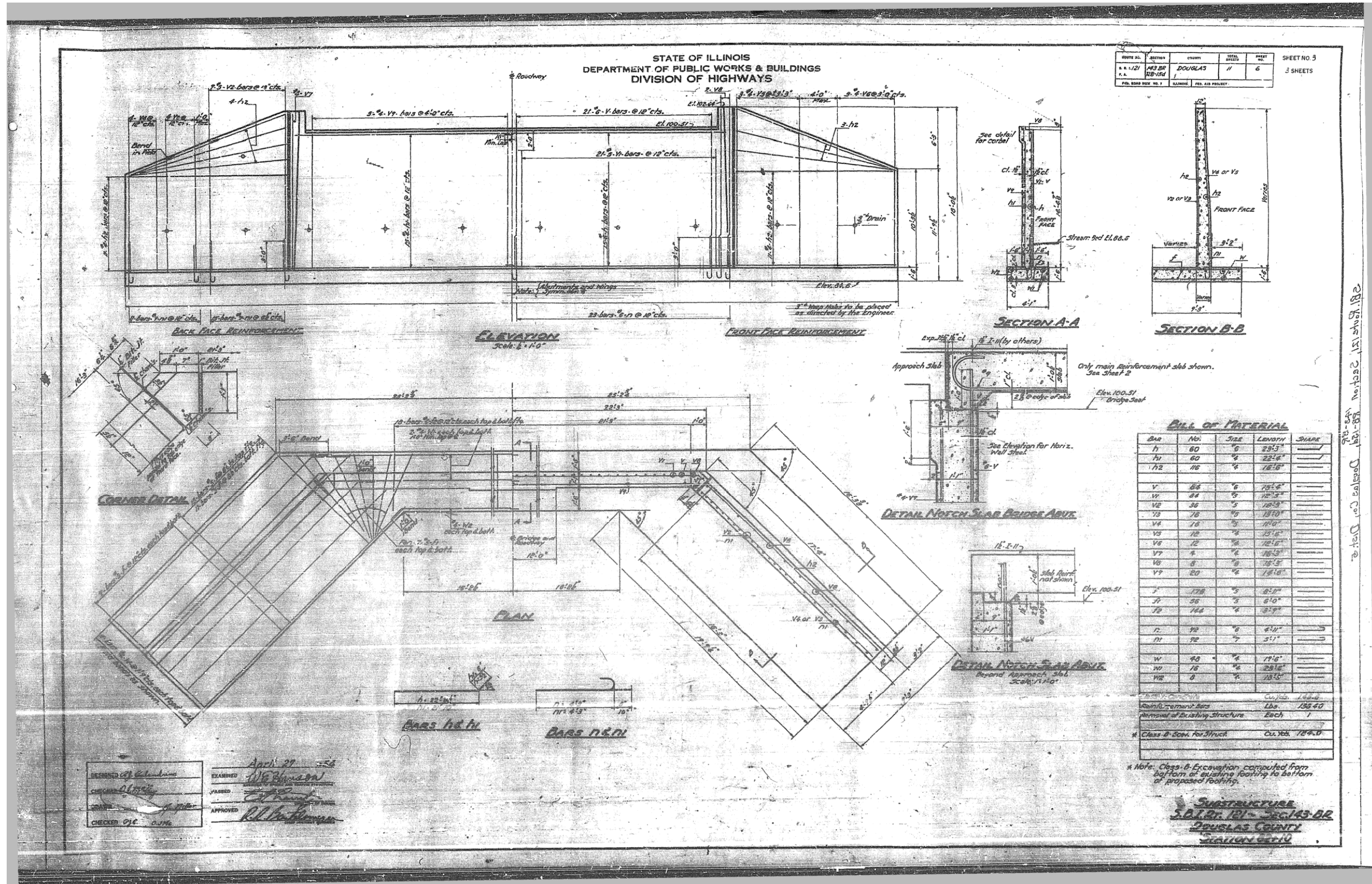
BILL OF MATERIAL

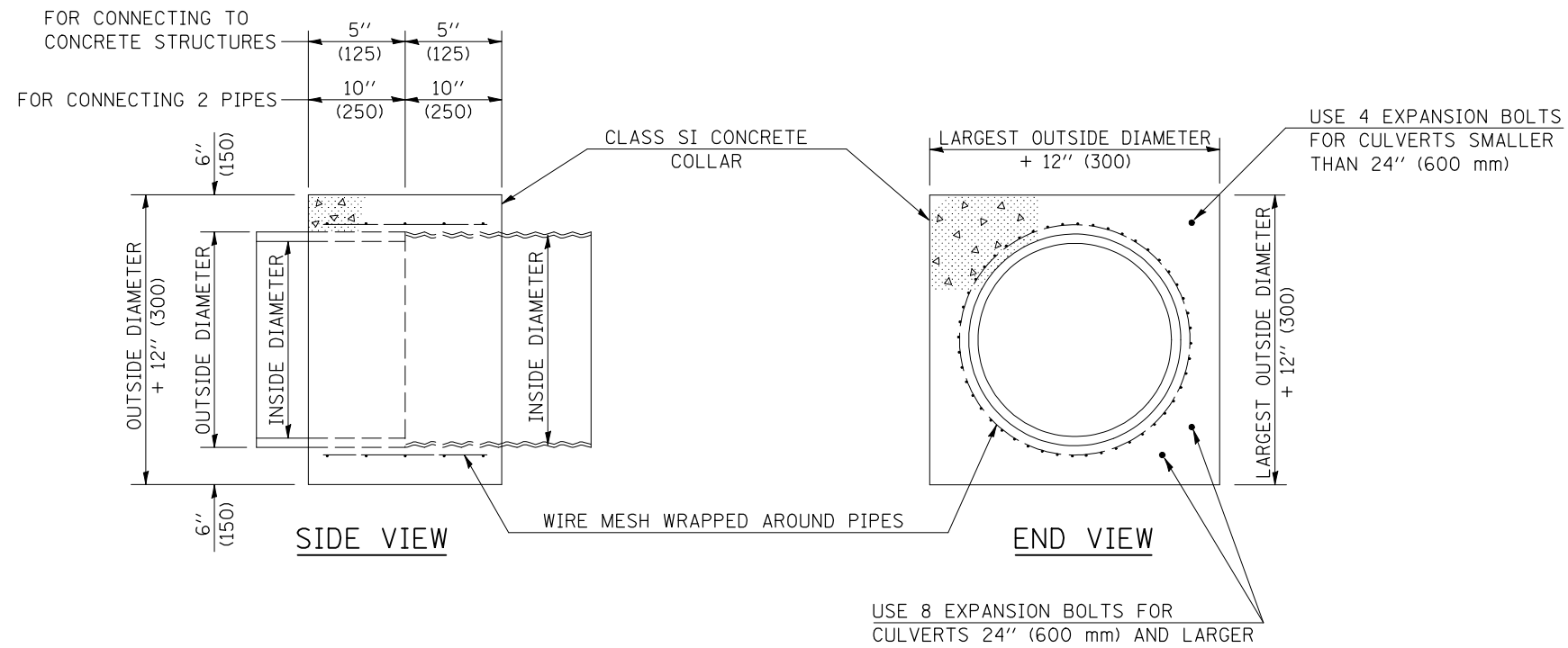
BAR	No.	SIZE	LENGTH	SHAPE
a	82	4	28'-9"	C
b1	28	5	23'-5"	—
b2	6	6	23'-10"	—
d	32	5	20'-5"	—
d1	64	5	19'-6"	—
d2	72	5	2'-2"	—
e	8	5	22'-2"	—
f	18	4	2'-4"	—
g	36	5	3'-0"	—
s	48	4	7'-0"	□

Class-70 Concrete Cu. Yds. 47.0
 Handrail Concrete Cu. Yds. 1.3
 Reinforcement Bars Lbs. 10940
 Name Plates Each 1

DESIGNED: *[Signature]*
 CHECKED: *[Signature]*
 DRAWN: *[Signature]*
 EXAMINED: *[Signature]* April 27 1954
 PASSED: *[Signature]*
 APPROVED: *[Signature]*

THIS DETAIL IS INCLUDED FOR INFORMATION ONLY





GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m²).
4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS, SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

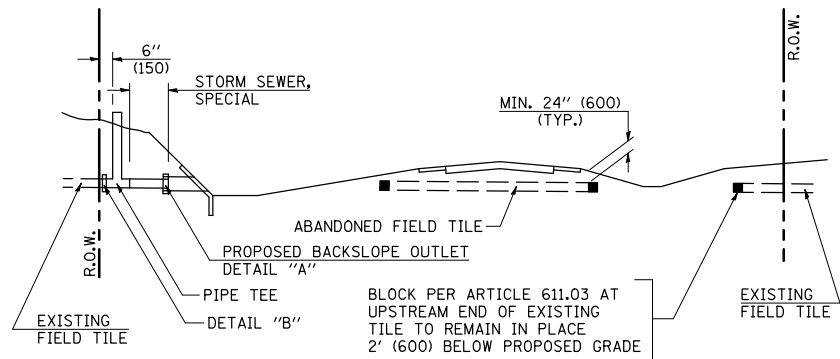
QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU. YD. (m ³)
4" (100)	0.14 (0.11)
6" (150)	0.16 (0.12)
8" (200)	0.19 (0.14)
10" (250)	0.22 (0.17)
12" (300)	0.25 (0.19)
15" (375)	0.30 (0.23)
18" (450)	0.35 (0.27)
24" (600)	0.45 (0.35)
30" (750)	0.57 (0.43)
36" (900)	0.69 (0.53)
42" (1050)	0.83 (0.63)
48" (1200)	0.97 (0.74)
54" (1350)	1.12 (0.86)
60" (1500)	1.28 (0.98)

QUANTITIES FOR METAL PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU. YD. (m ³)
4" (100)	0.12 (0.09)
6" (150)	0.14 (0.11)
8" (200)	0.16 (0.12)
10" (250)	0.19 (0.14)
12" (300)	0.21 (0.16)
15" (375)	0.25 (0.19)
18" (450)	0.29 (0.22)
24" (600)	0.38 (0.29)
30" (750)	0.47 (0.36)
36" (900)	0.59 (0.45)
42" (1050)	0.69 (0.53)
48" (1200)	0.81 (0.62)
54" (1350)	0.93 (0.71)
60" (1500)	1.05 (0.81)

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

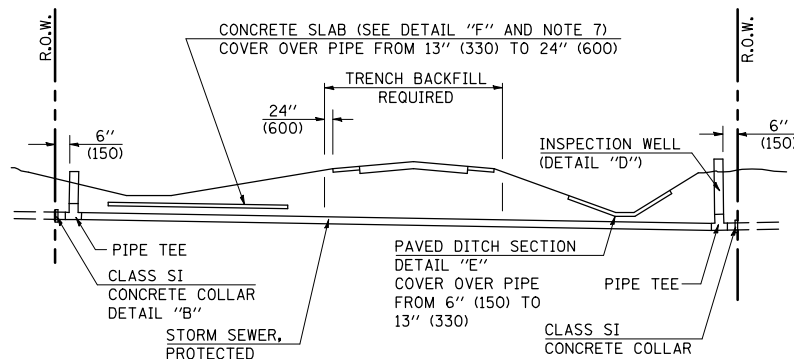
DISTRICT 5 DETAIL NO. 54248510

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - 12/06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE COLLAR				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ce:\pw\work\PIWIDOT\CEARLOCKJD\0110229\70223details.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	323	(143BR)BR	DOUGLAS	68	32
		CHECKED -	REVISED -						CONTRACT NO. 70223					
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									



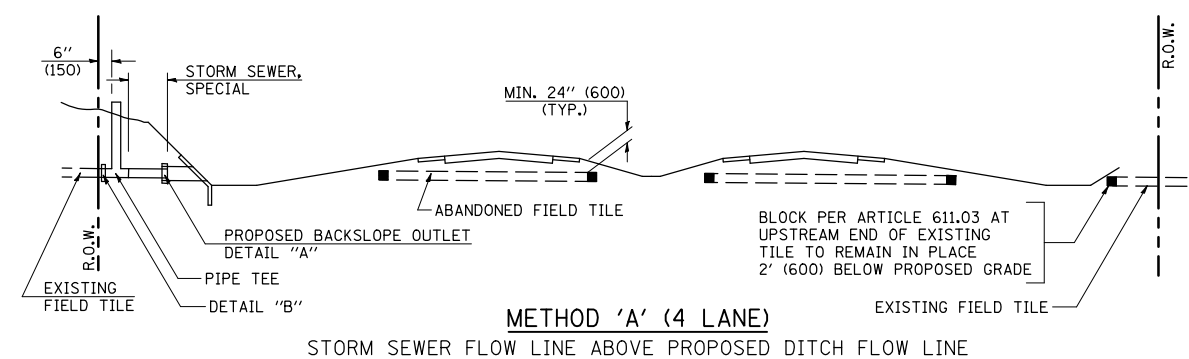
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



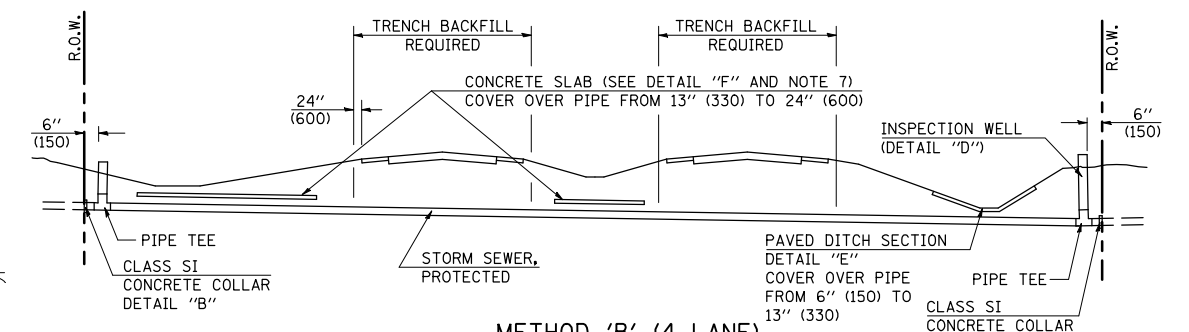
METHOD 'B' (2 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



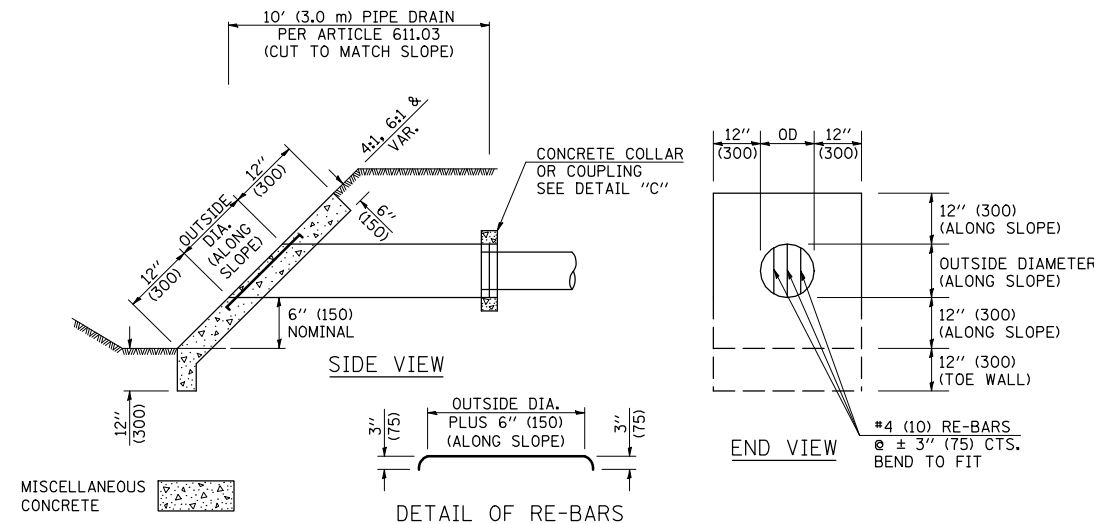
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

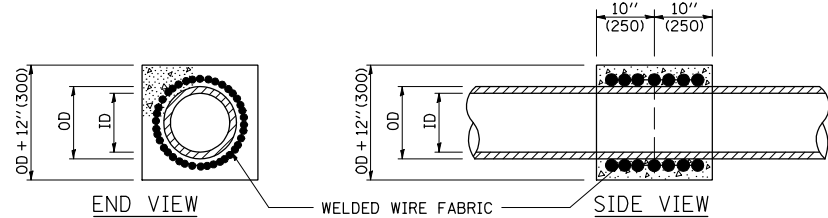


METHOD 'B' (4 LANE)

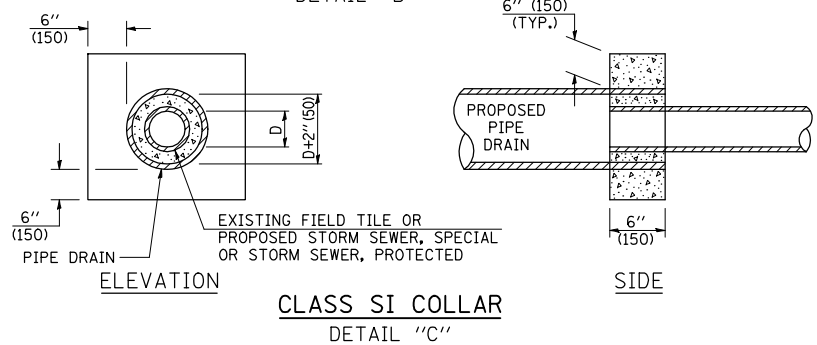
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



HEADWALL FOR BACKSLOPE OUTLET DETAIL 'A'



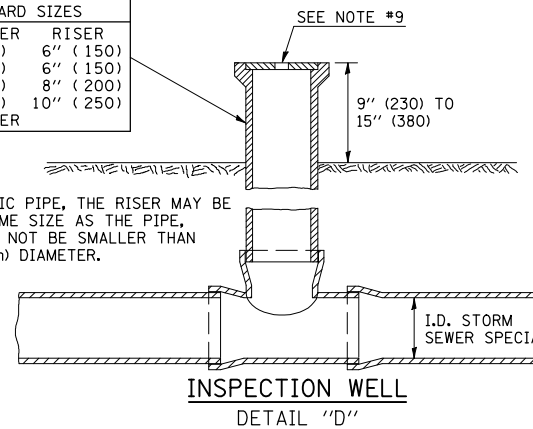
CONCRETE COLLAR DETAIL 'B'



CLASS SI COLLAR DETAIL 'C'

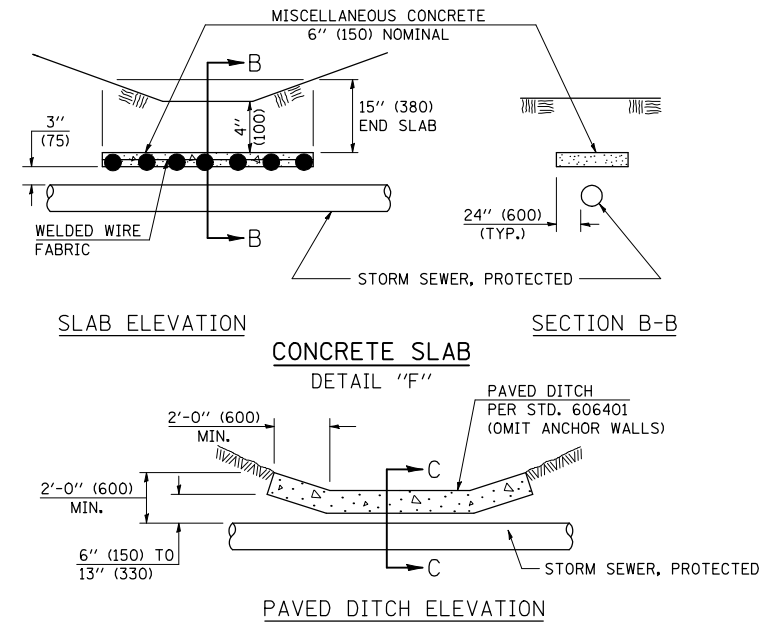
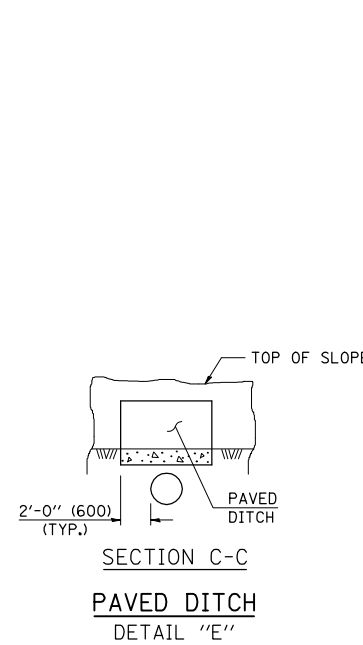
CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



GENERAL NOTES

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



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

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - 11/06
ce:\pw\work\p\WIDOT\CEARLOCKJD\0110229\70223details.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

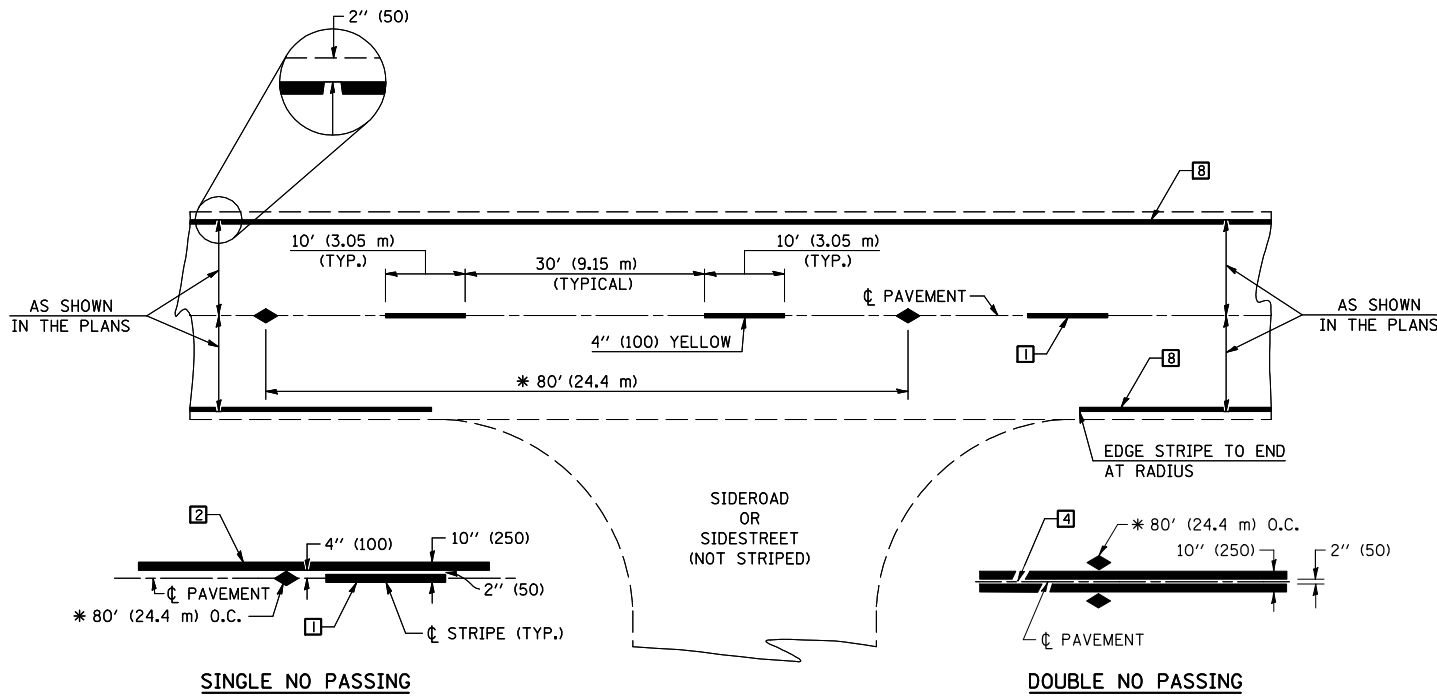
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
--------	-----------	-----------	------	---------

DISTRICT 5 DETAIL NO. 61101011A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	33
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

TWO LANE/TWO WAY

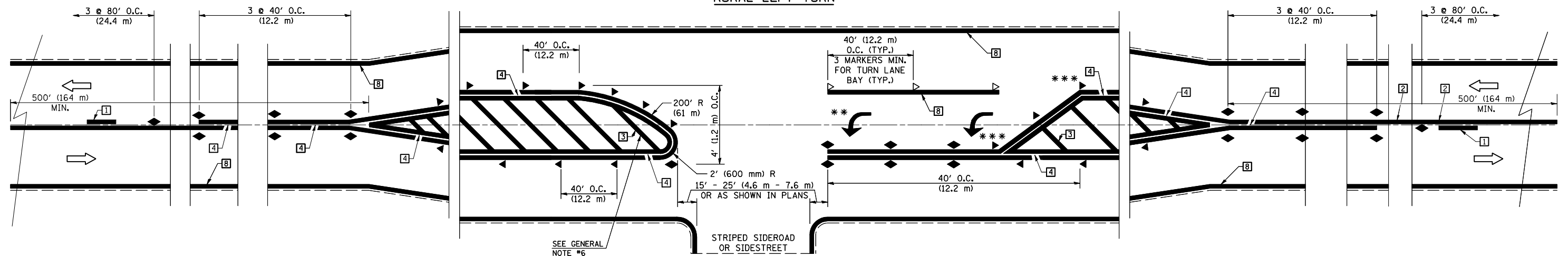
TYPICAL PAVEMENT MARKING LEGEND

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

TYPICAL PAVEMENT MARKERS LEGEND

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

RURAL LEFT TURN



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

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

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

DISTRICT 5 DETAIL NO. 7800AAA

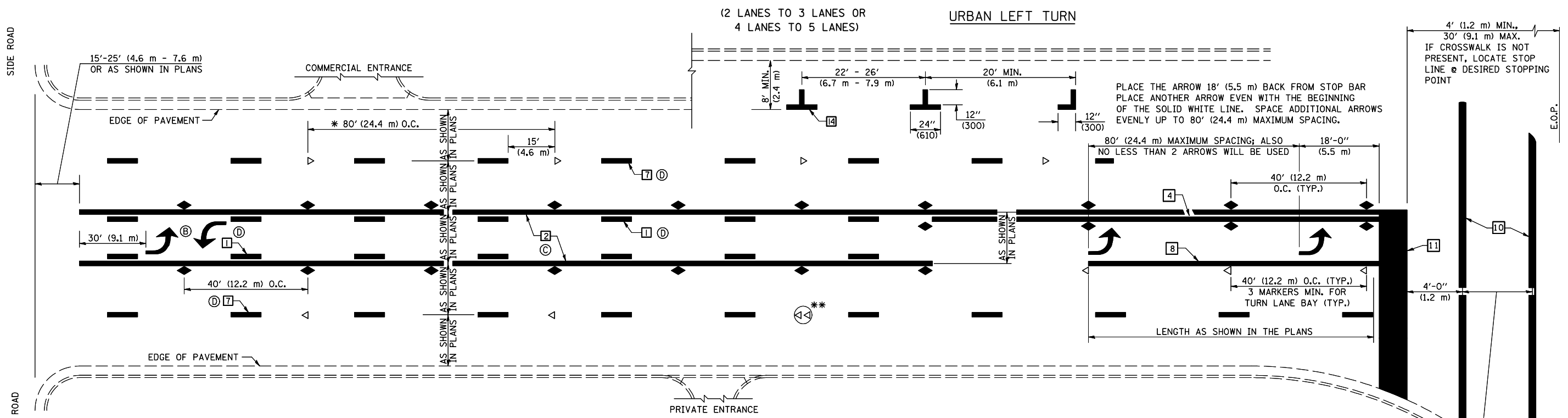
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	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/17/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

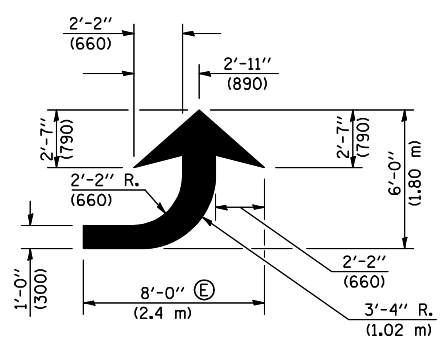
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	34
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



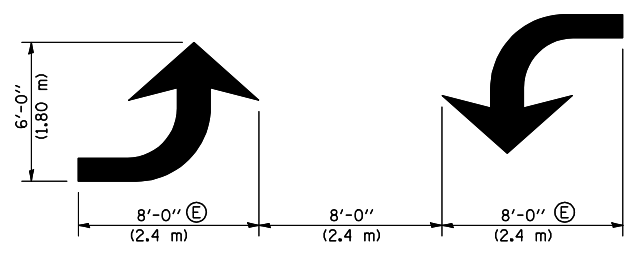
* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

- GENERAL 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) USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)

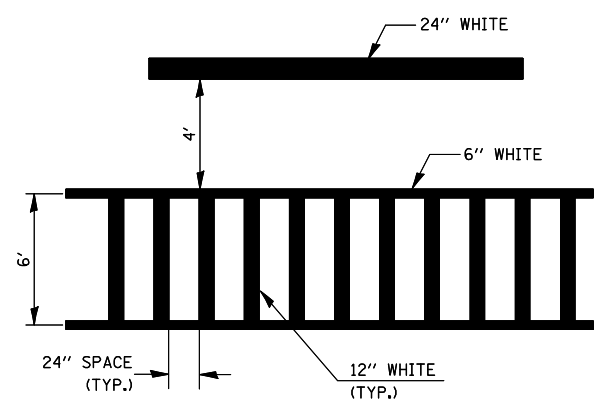


LEFT ARROW
 REVERSE FOR RIGHT ARROW
 AREA = 15.6 SQ. FT. (1.47 m²)
 (WHITE)

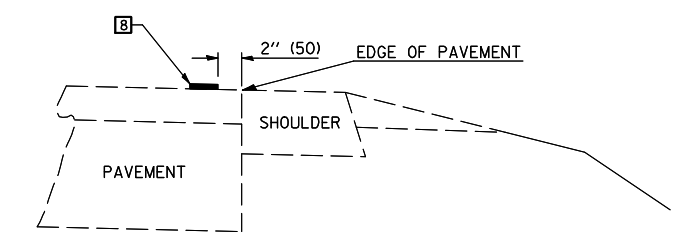


TYPICAL DOUBLE TURN ARROWS (WHITE)

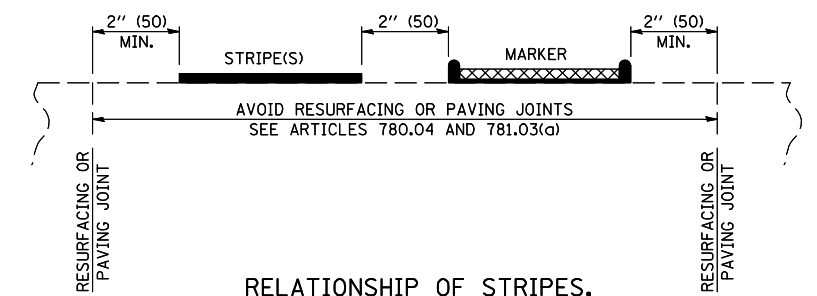
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT
 (SAFETY SHOULDER OR PAVED SURFACE)
 SEE ARTICLE 780.04



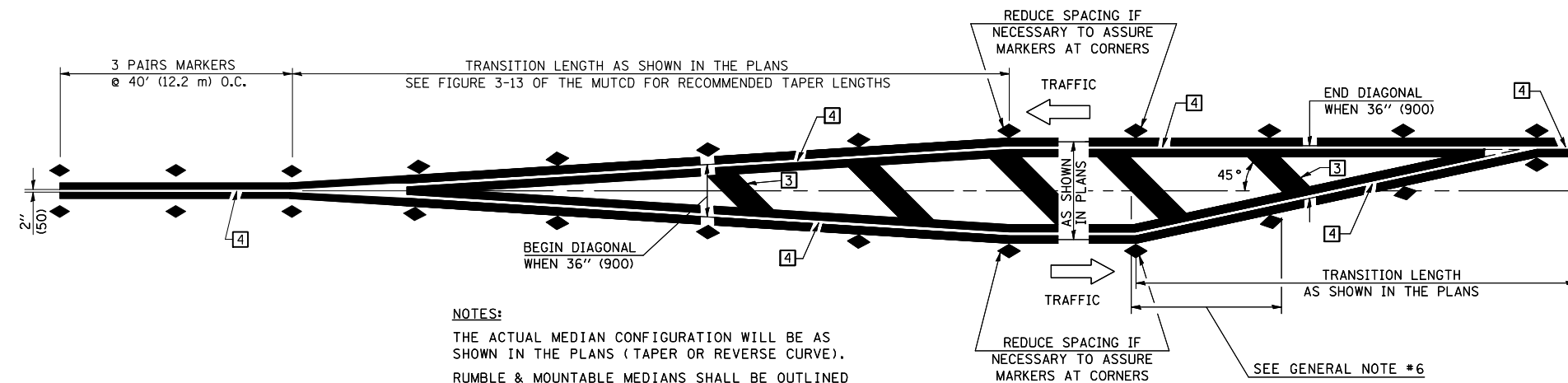
RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

CROSSWALK WIDTH 6'-0" (1.8 m) OR AS SHOWN IN THE PLANS

4' (1.2 m) MIN., 30' (9.1 m) MAX. IF CROSSWALK IS NOT PRESENT, LOCATE STOP LINE @ DESIRED STOPPING POINT

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

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - 11/06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\pw\work\p\WIDOT\CEARLOCKJD\0110229\70223details.dgn	DRAWN -	REVISED - 09/2009 - KJT	323			(143BR)BR	DOUGLAS	68	35	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 70223							
PLOT DATE = 12/17/2009	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				

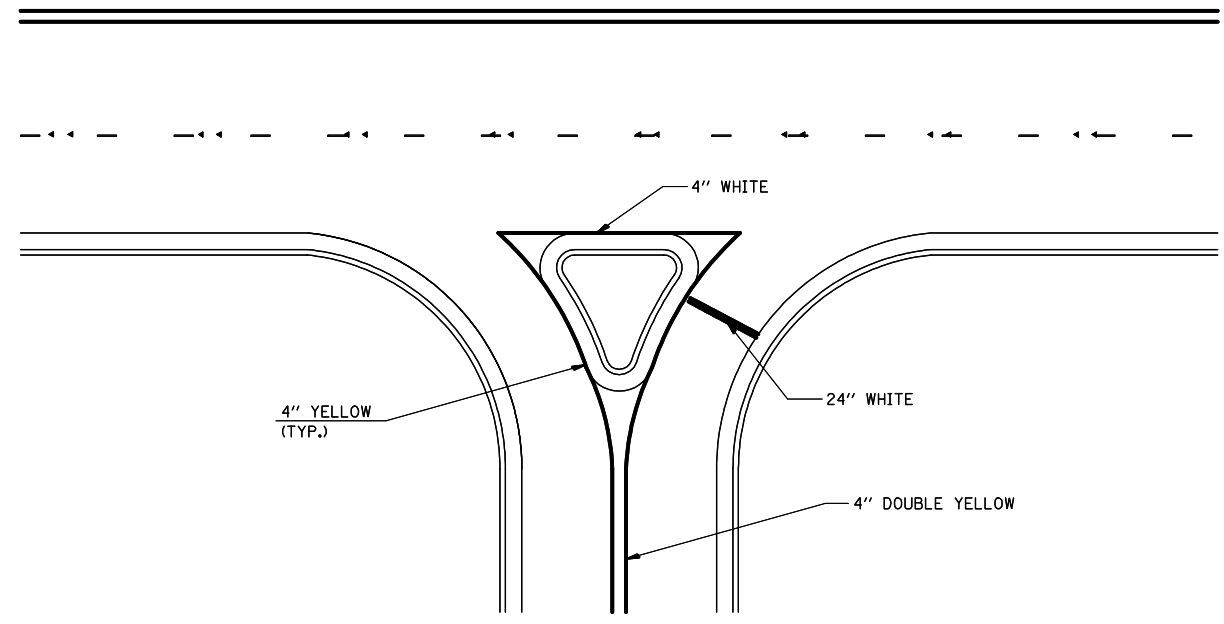


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

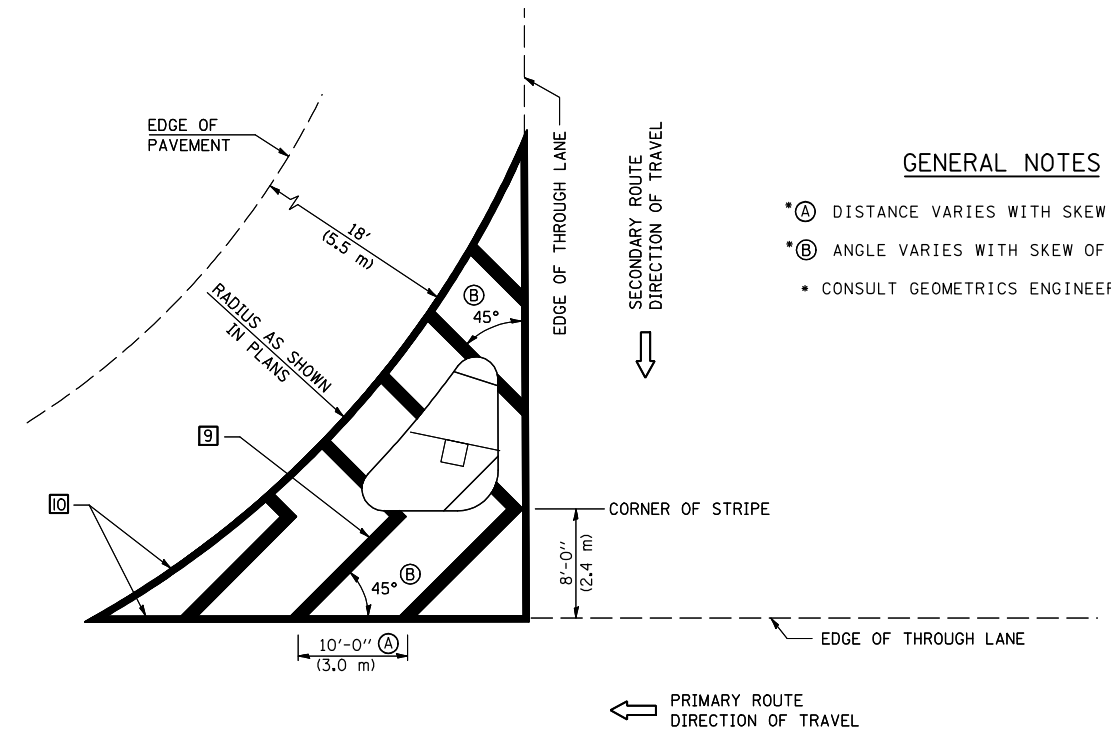
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. 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)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- *A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- *B ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

ISLAND

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

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - 11/06
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	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/17/2009	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

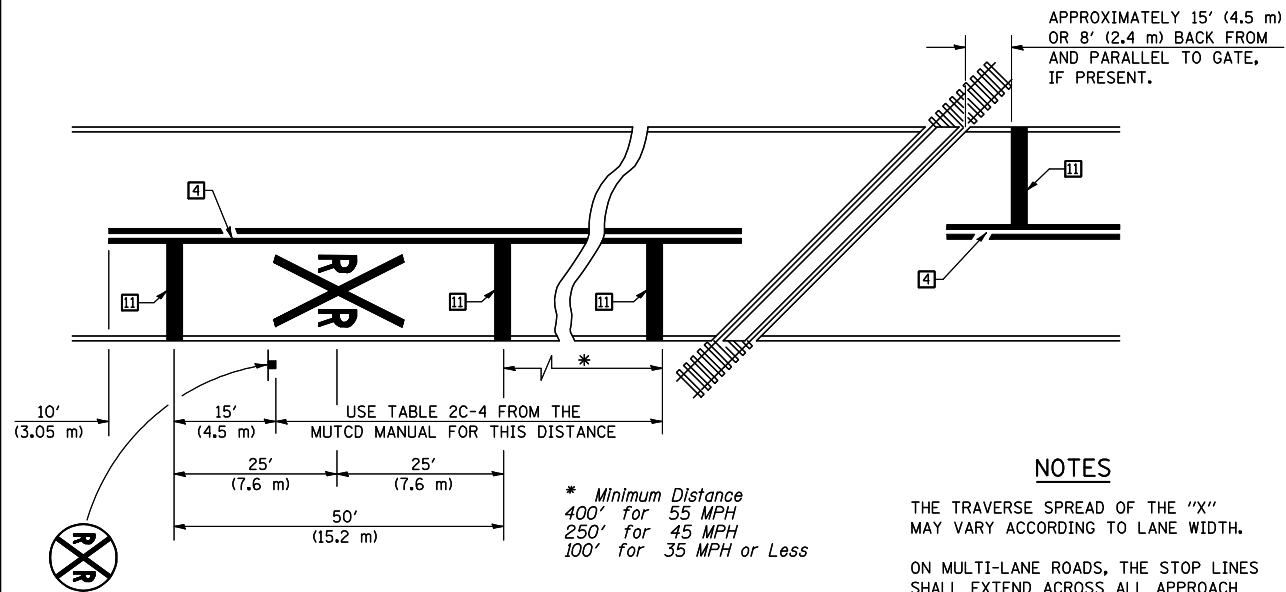
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	36
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

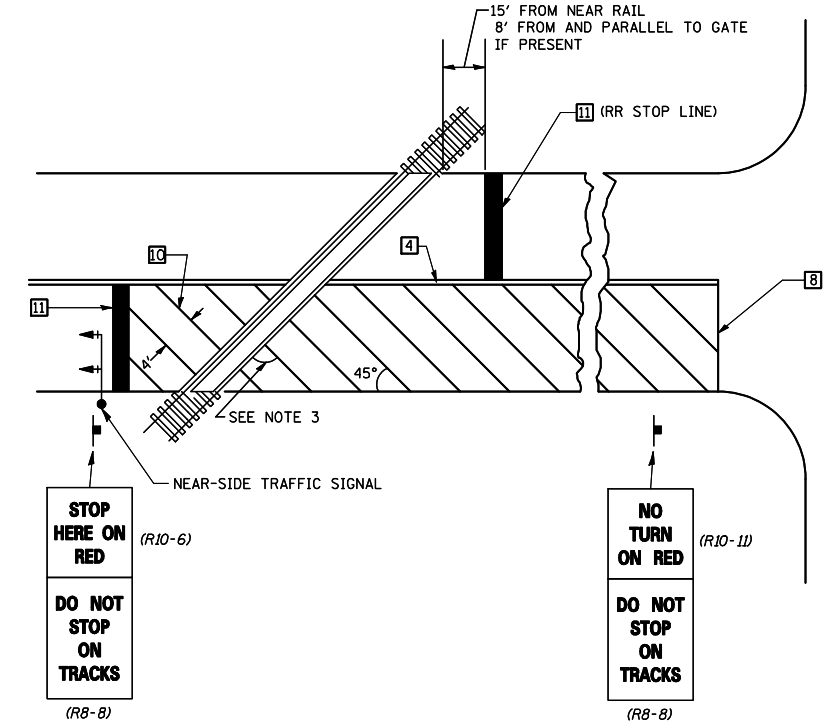
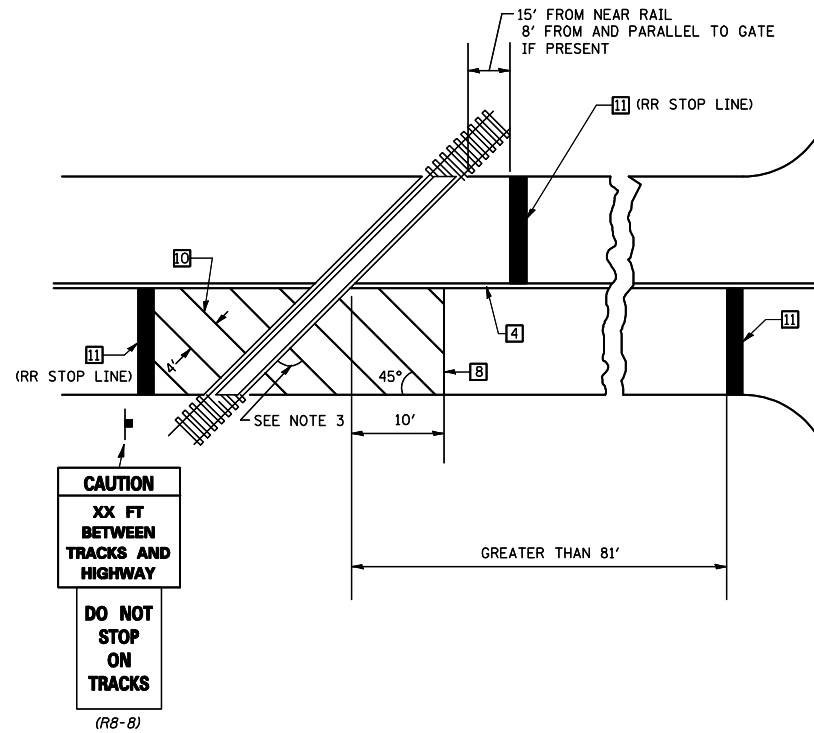
APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT.

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

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

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

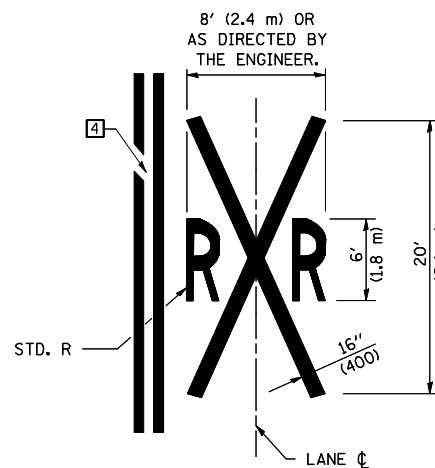
* Minimum Distance
400' for 55 MPH
250' for 45 MPH
100' for 35 MPH or Less



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



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

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - 11/06
ce:\pw\work\PWIDOT\CEARLOCKJD\0110229\70223details.dgn		DRAWN -	REVISED - 09/2009 - KJT
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	PLOT DATE = 12/17/2009	DATE -	REVISED -

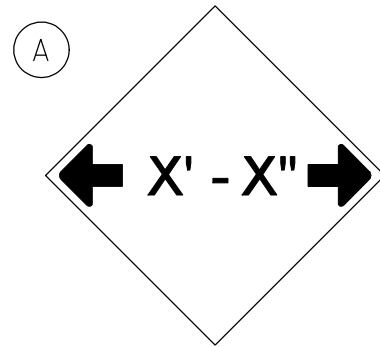
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAAA

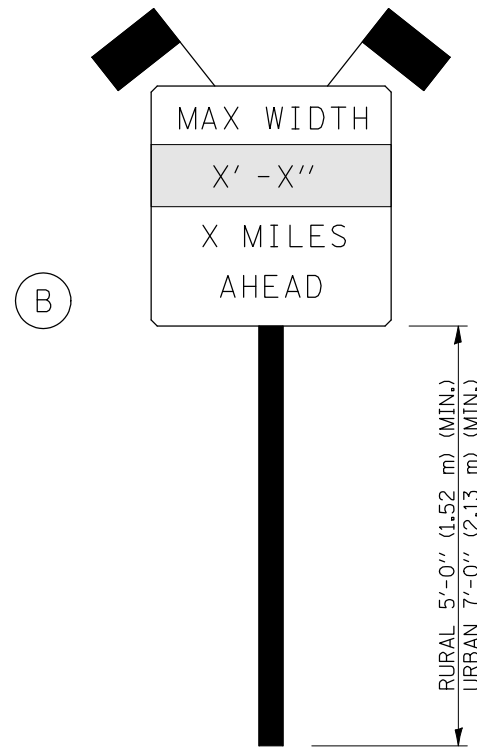
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	37
CONTRACT NO. 70223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



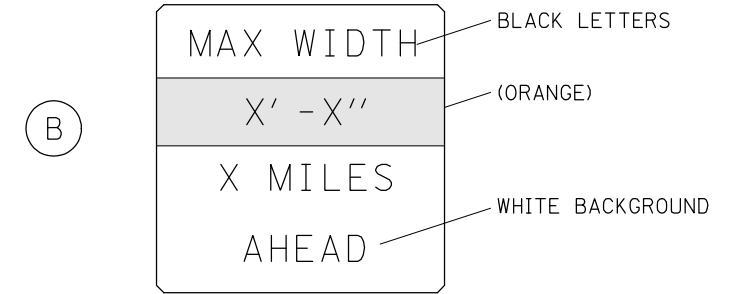
W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(0)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.

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

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - 11/06
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	PLOT DATE = 12/17/2009	DATE -	REVISED - 7/09 - KJT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION SIGNING

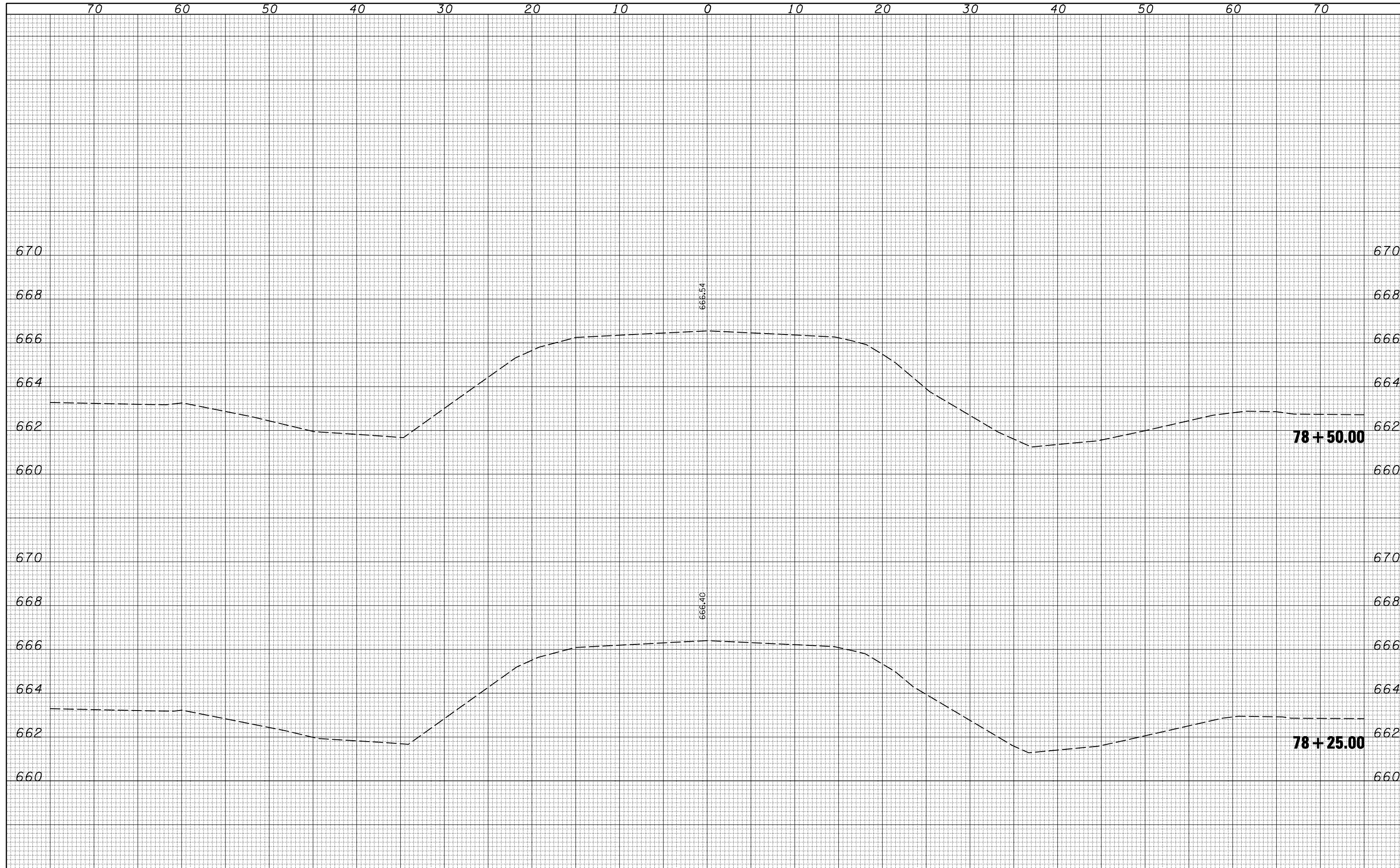
SCALE: SHEET NO. OF SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. X7200201

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	DOUGLAS	68	38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70223	

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FINAL SURVEY	
NOTE BOOK	
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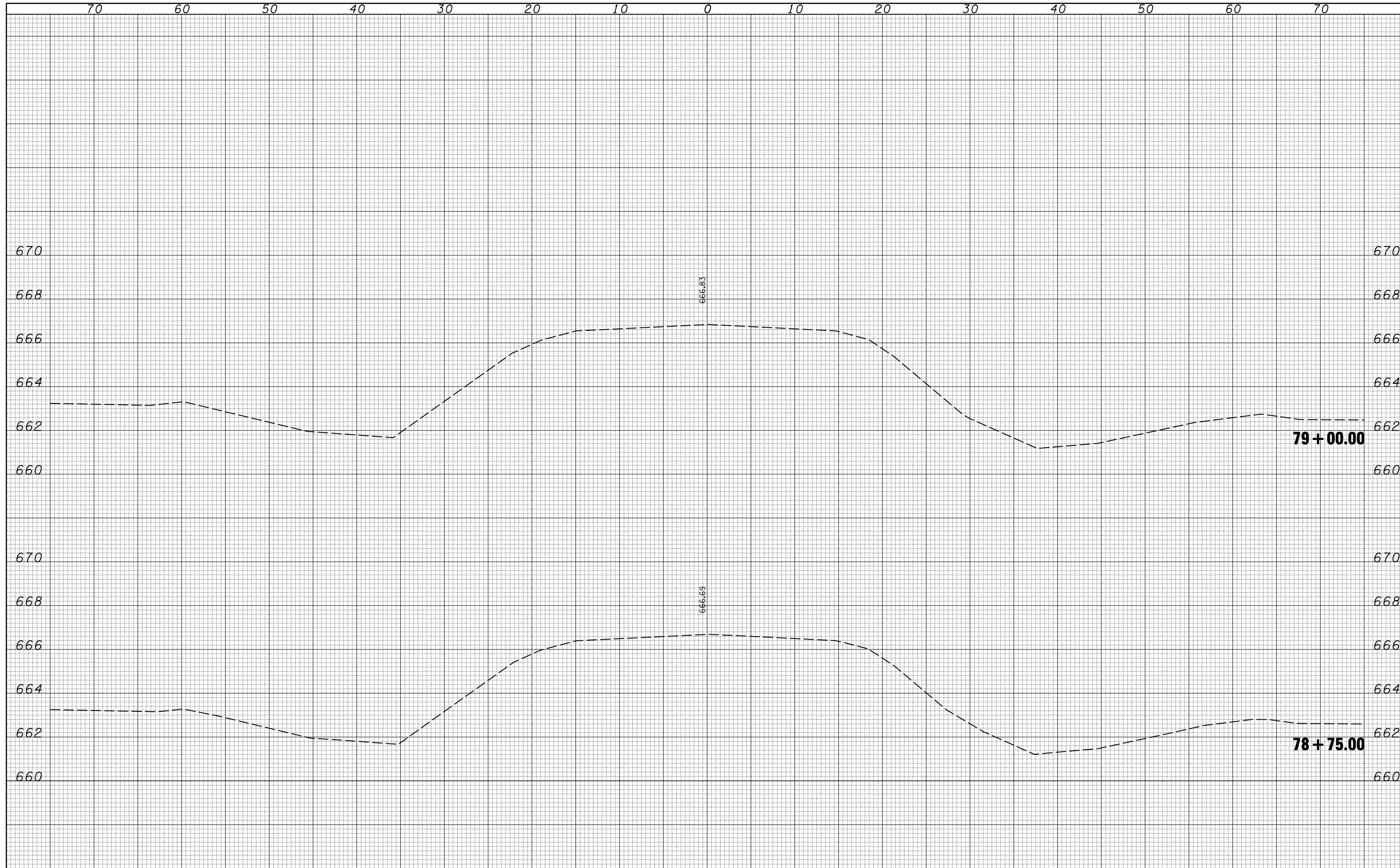
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TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 36 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\IDOT\CEARLOCKJD\0110266\70223-sh	t-US36-xasht.dgn	DRAWN -	REVISIED -					323	(143BR)BR	Douglas	68	39
	PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISIED -		CONTRACT NO. 70223			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 12/17/2009	DATE -	REVISIED -		SCALE:	SHEET NO.	OF SHEETS	STA. 78+25.00	TO STA. 78+50.00			

DATE	
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FINAL SURVEY	
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USER NAME = cealockjd
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

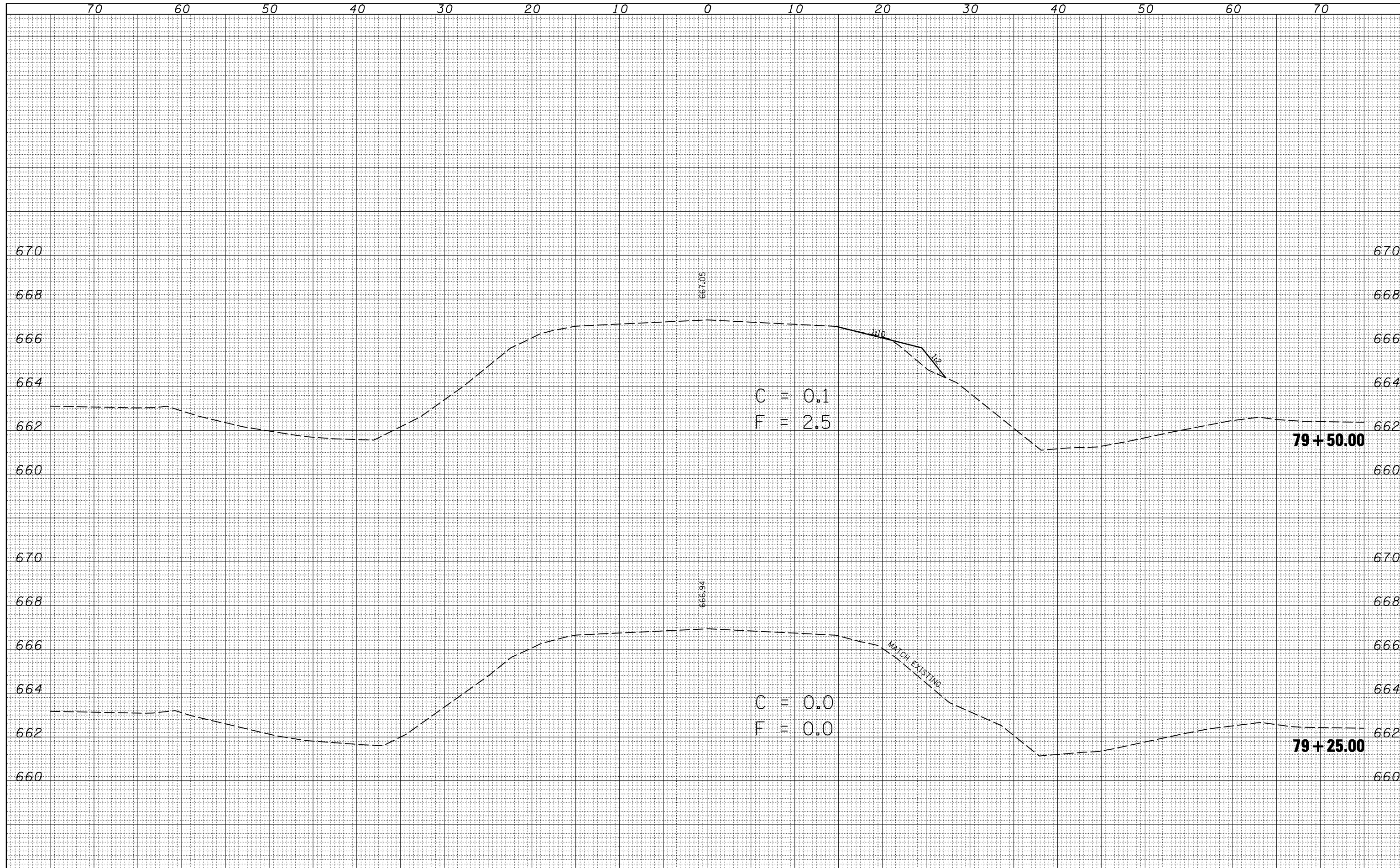
US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 78+75.00 TO STA. 79+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	40
CONTRACT NO. 70223			ILLINOIS FED. AID PROJECT	

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

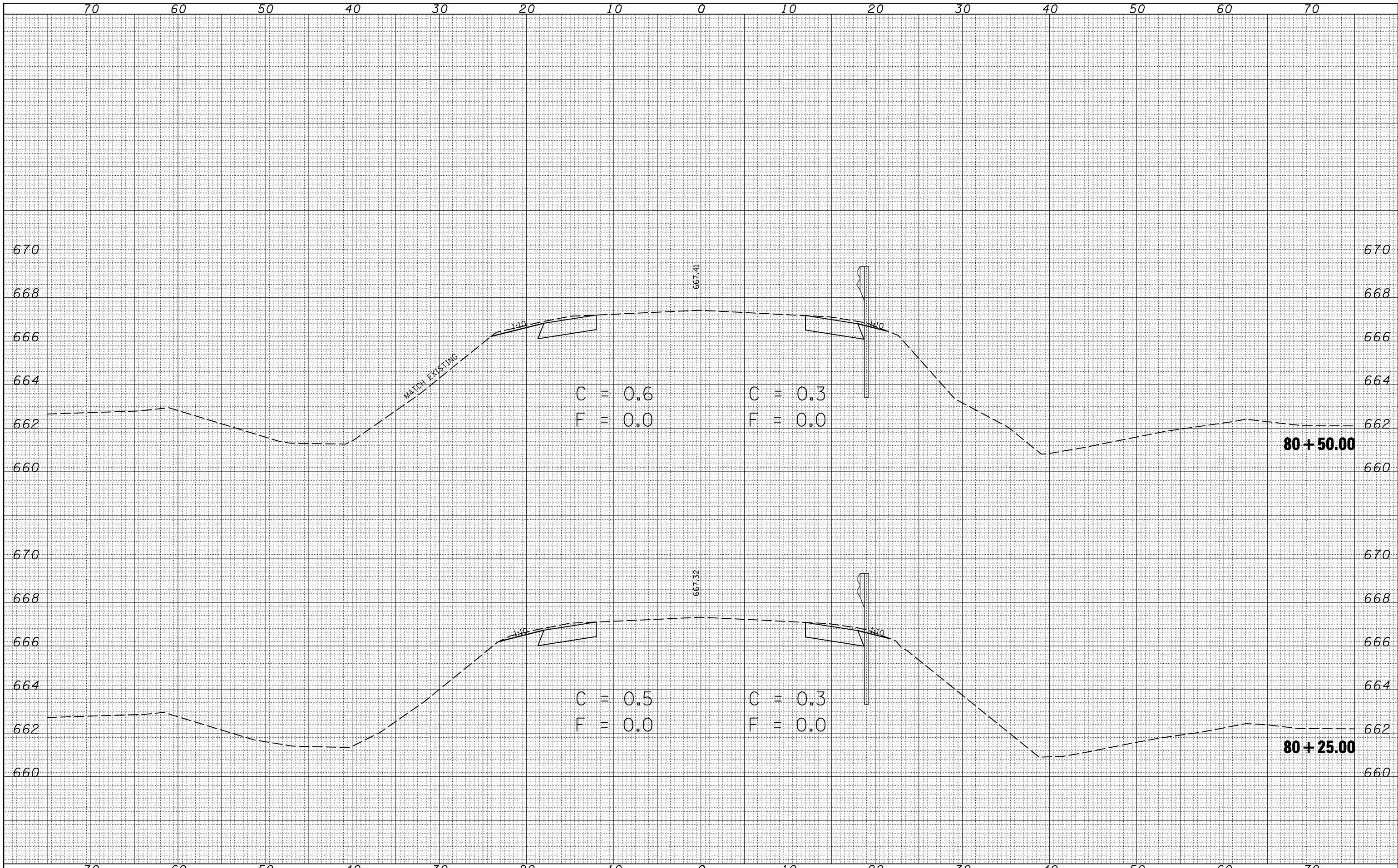
US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 79+25.00 TO STA. 79+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	41
CONTRACT NO.			70223	
ILLINOIS FED. AID PROJECT				

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

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NOTE BOOK	PLOTTED
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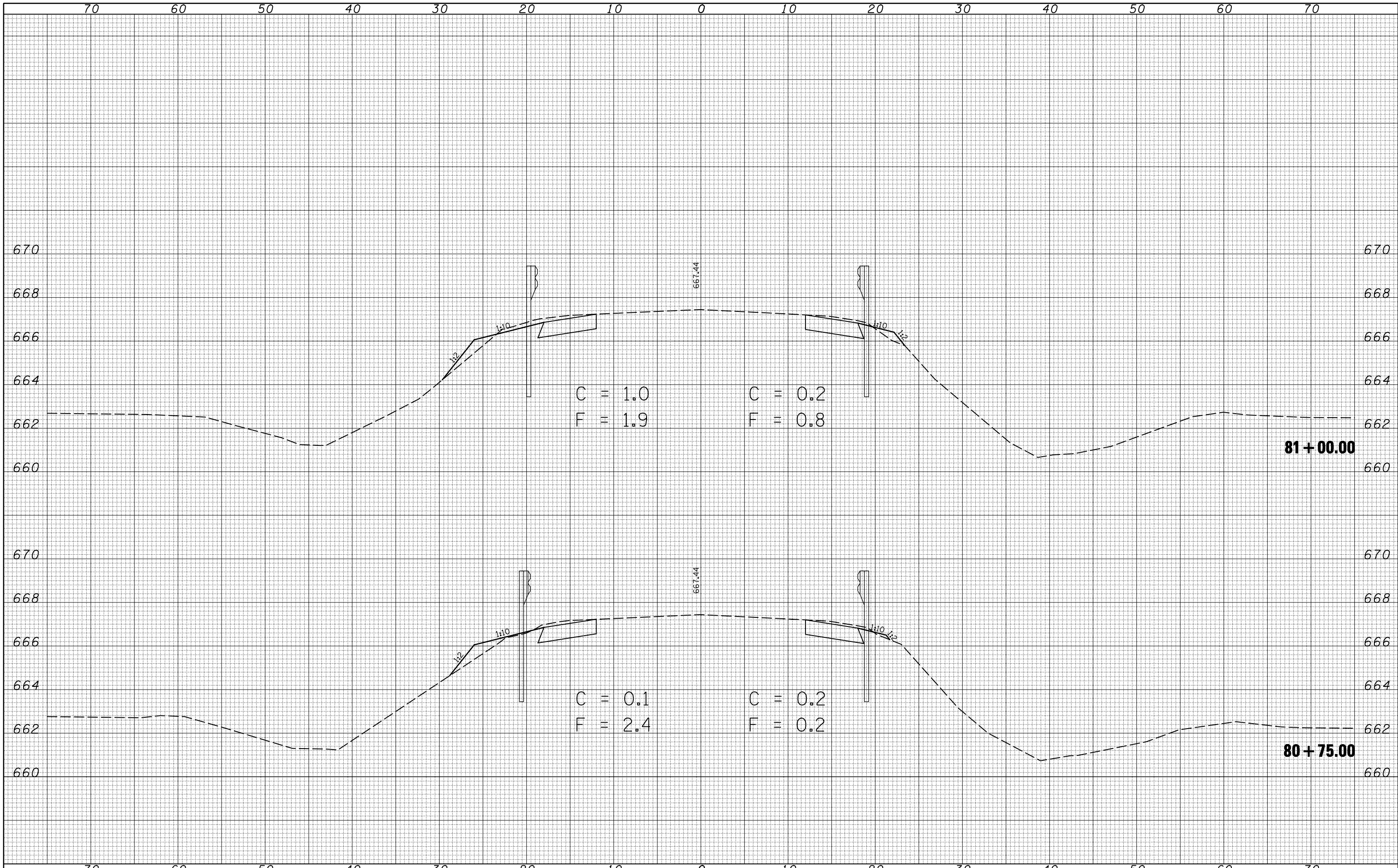
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 80+25.00 TO STA. 80+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	43
CONTRACT NO. 70223			ILLINOIS FED. AID PROJECT	



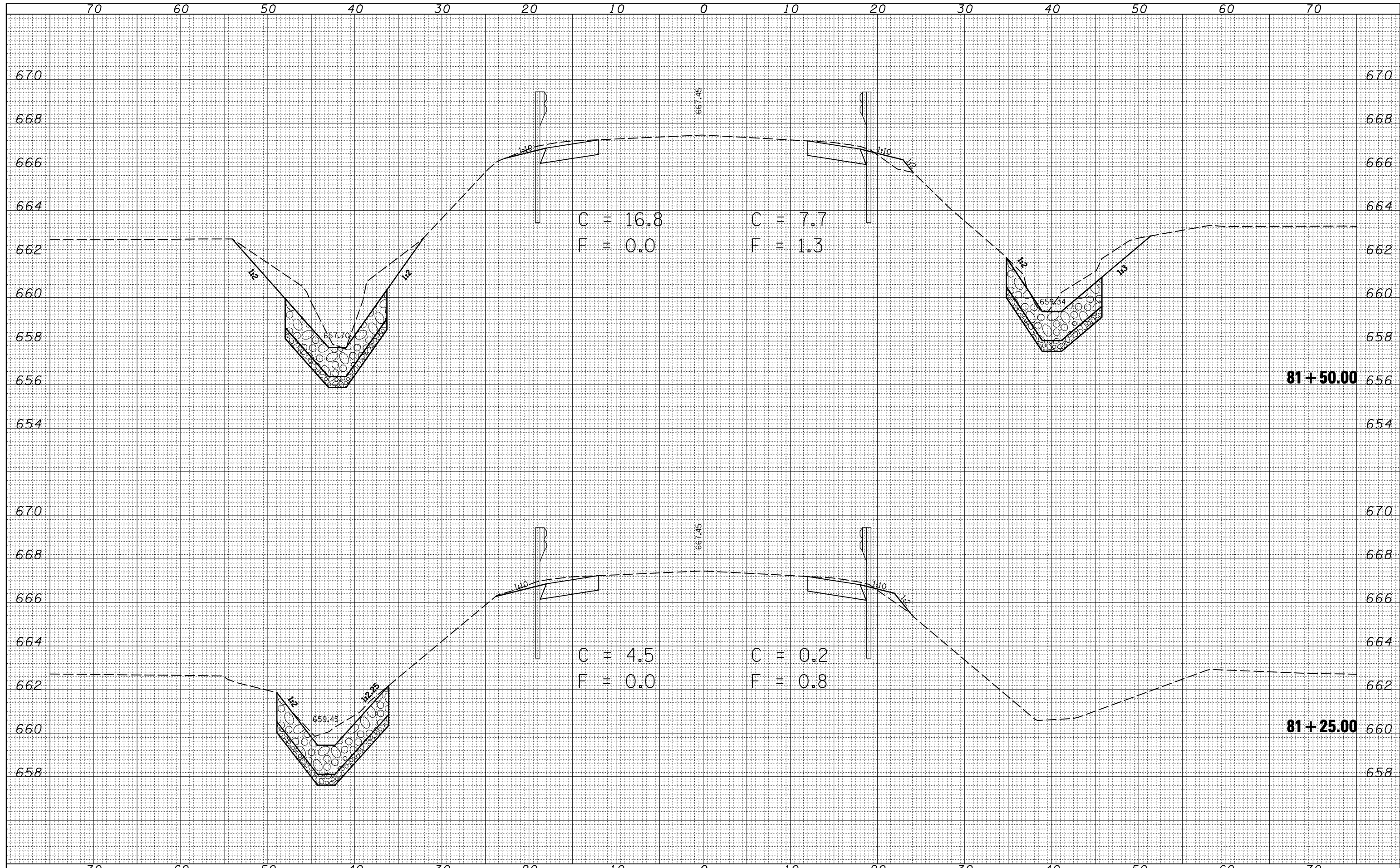
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FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISSED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 36 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 12/17/2009	DATE -	REVISSED -	ILLINOIS FED. AID PROJECT									

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

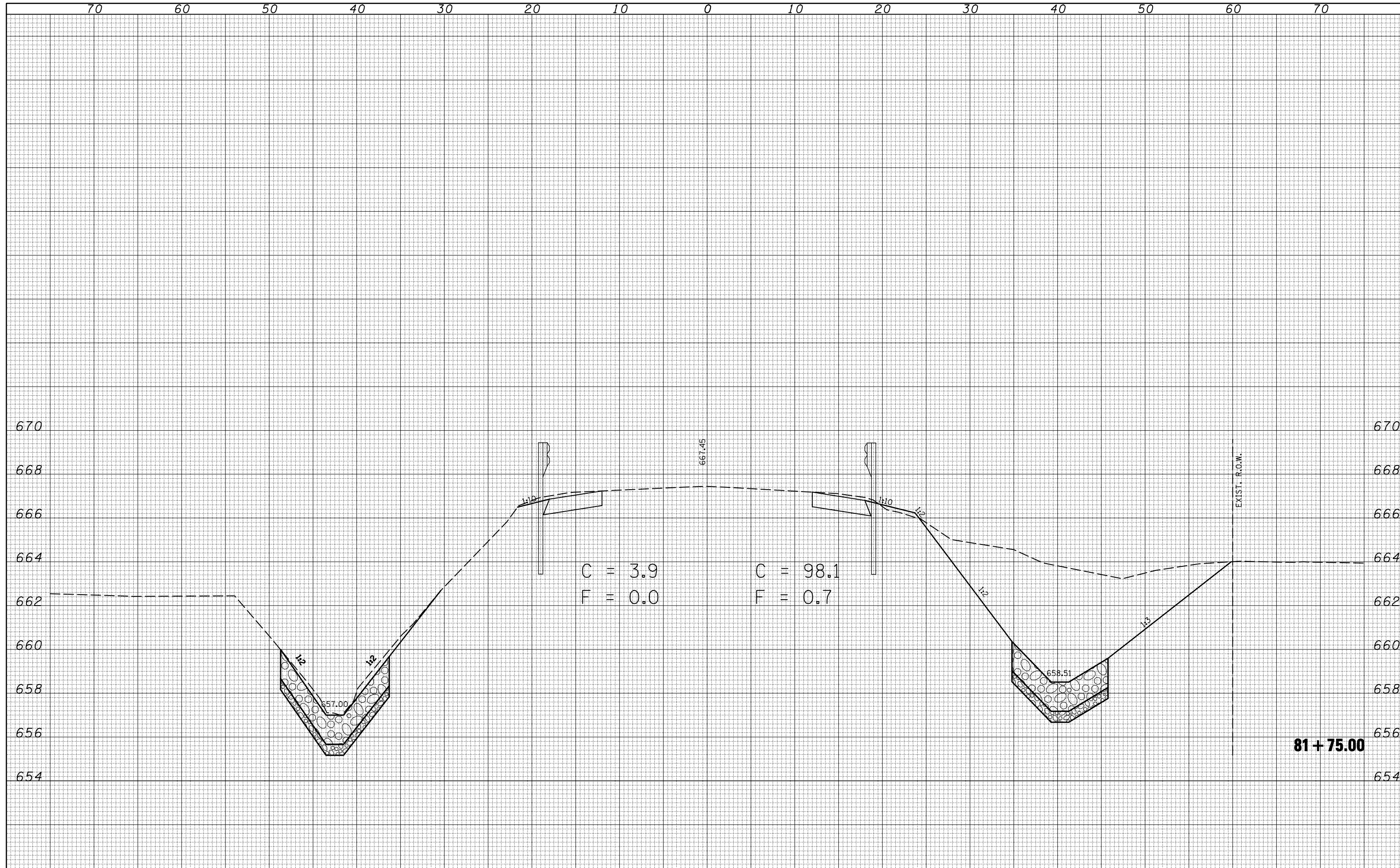
US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 81+25.00 TO STA. 81+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	45
CONTRACT NO. 70223			ILLINOIS FED. AID PROJECT	

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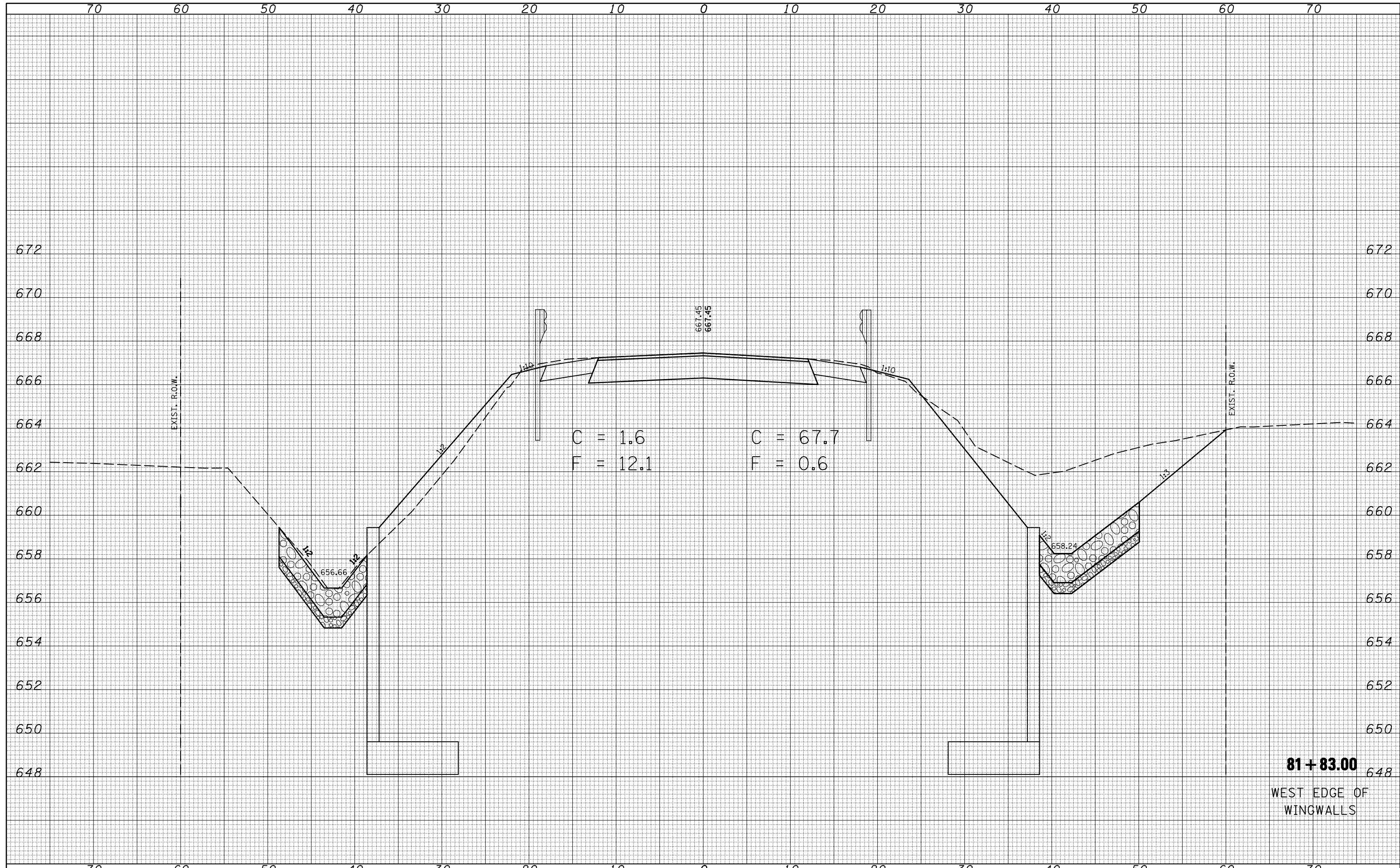
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FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 36 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\IDOT\CEARLOCKJD\0110266\70223-sh	t-US36-xasht.dgn	DRAWN -	REVISD -					323	(143BR)BR	Douglas	68	46
PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISD -	REVISD -					CONTRACT NO. 70223				
PLOT DATE = 12/17/2009	DATE -	REVISD -	REVISD -					ILLINOIS FED. AID PROJECT				
SCALE:					SHEET NO.	OF	SHEETS	STA. 81+75.00	TO STA. 81+75.00			

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NOTE BOOK	PLOTTED
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

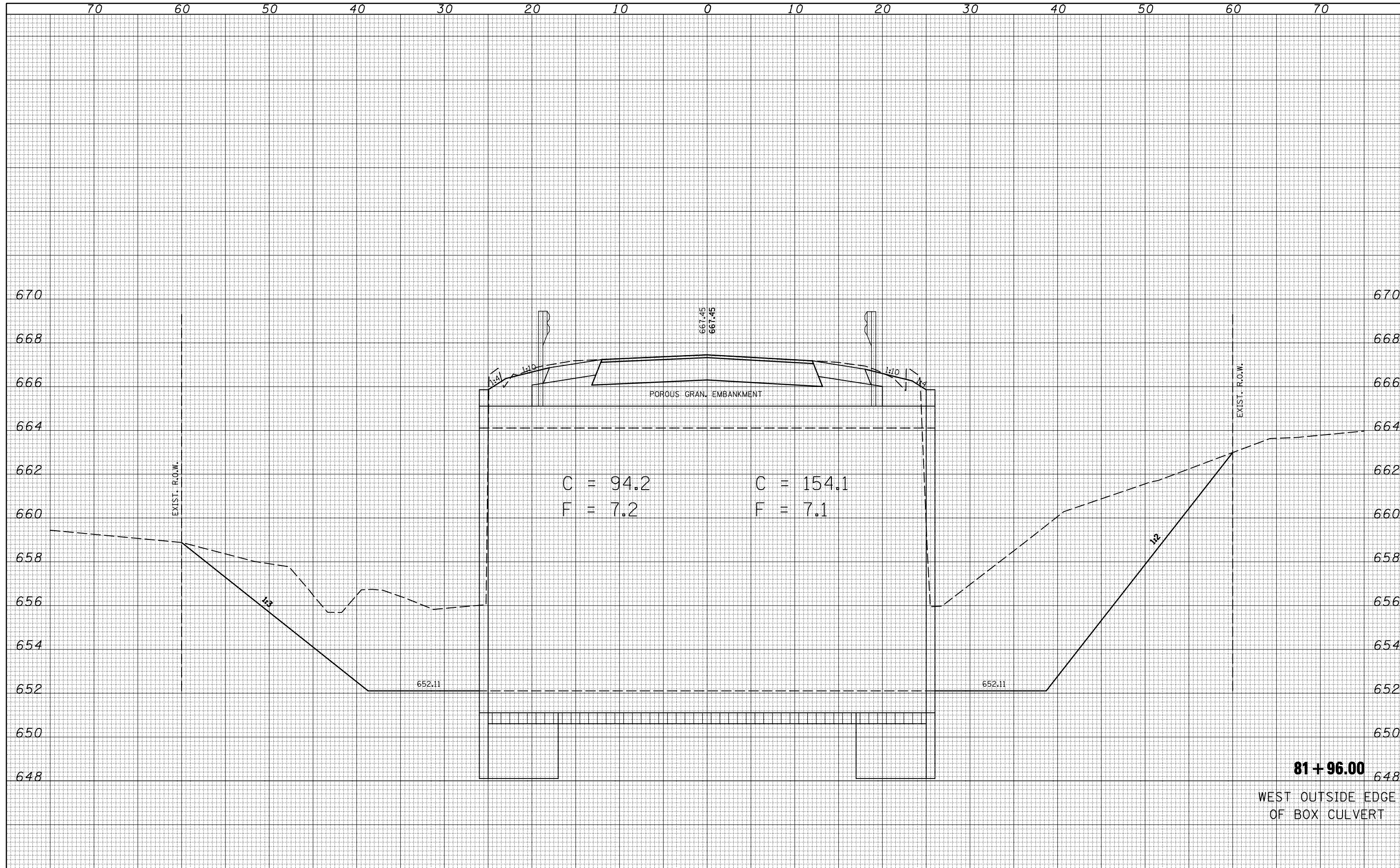
US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 81+83.00 TO STA. 81+83.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	47
			CONTRACT NO. 70223	
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

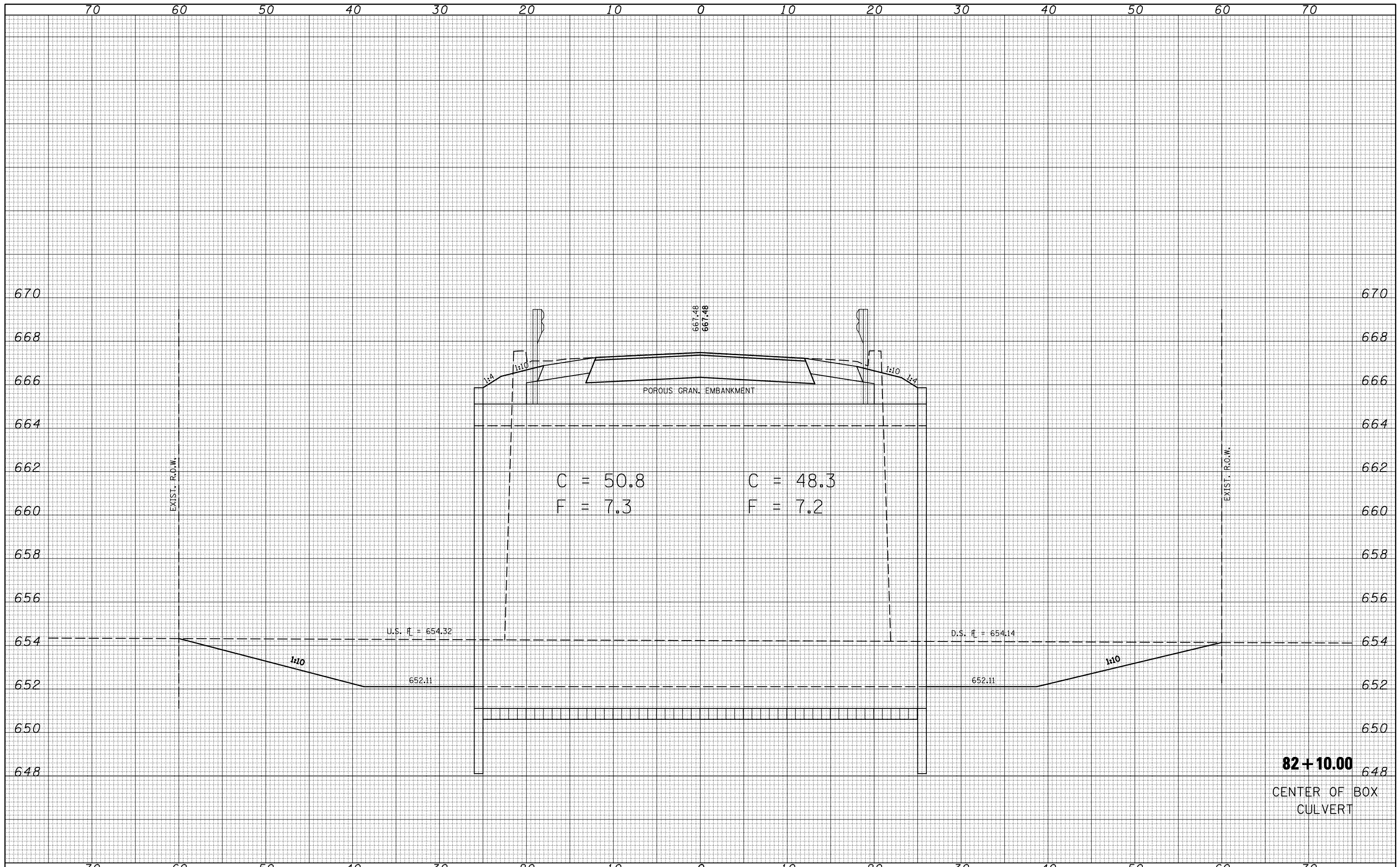
US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 81+96.00 TO STA. 81+96.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	48
CONTRACT NO. 70223			ILLINOIS FED. AID PROJECT	

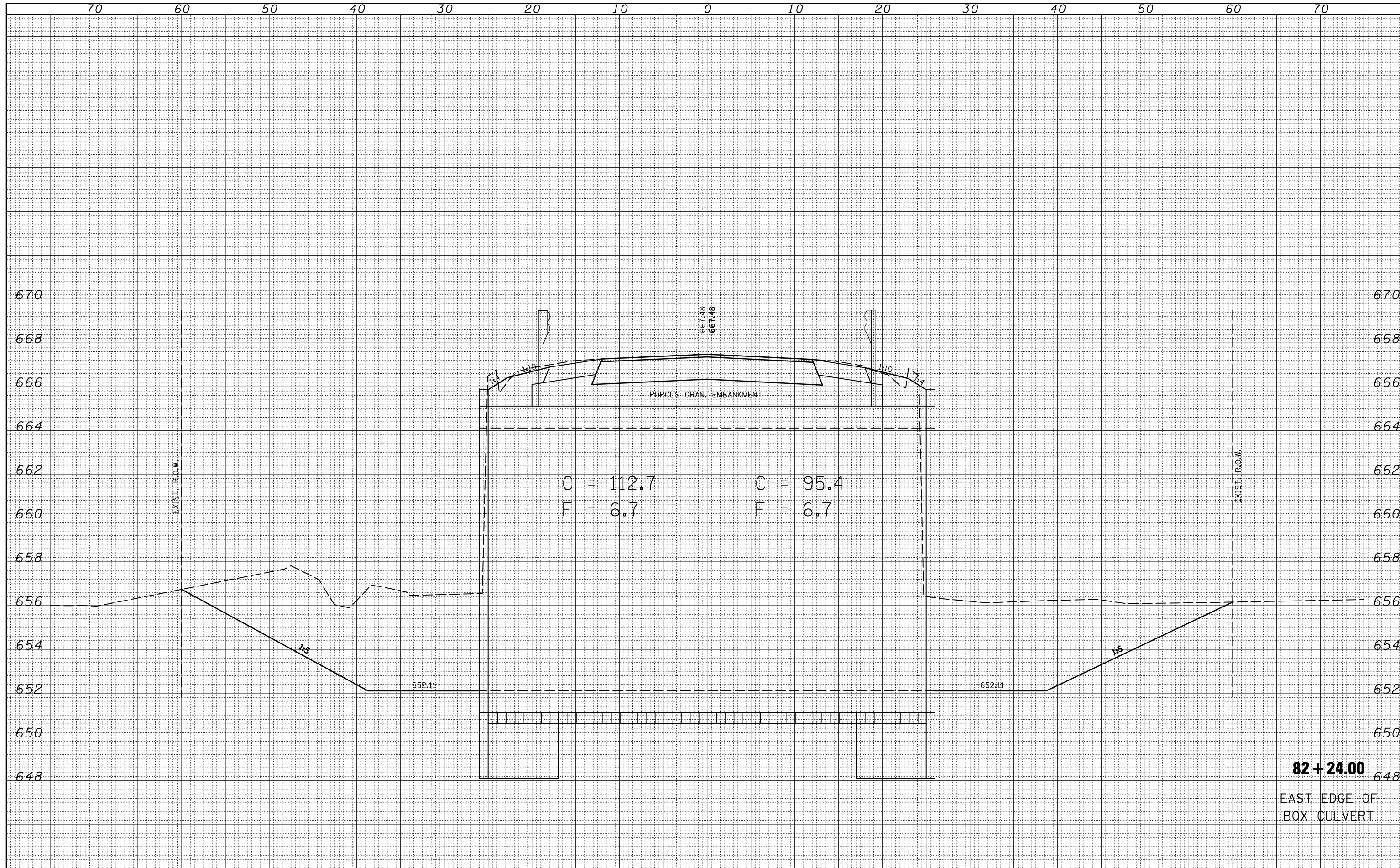
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NOTE BOOK NO.	PLOTTED
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BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

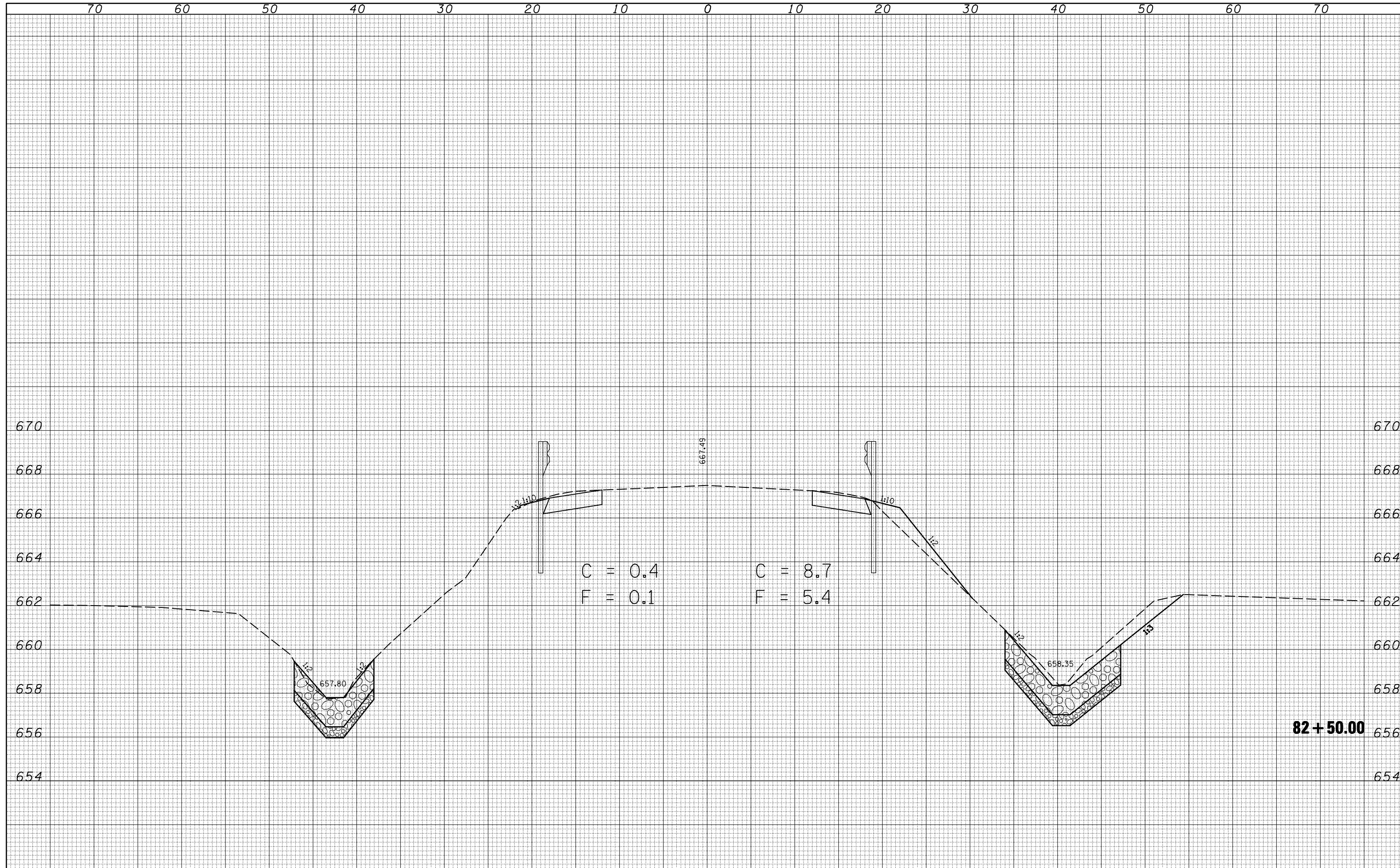
US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 82+24.00 TO STA. 82+24.00

F.A.P. RTE. 323	SECTION (143BR)BR	COUNTY Douglas	TOTAL SHEETS 68	SHEET NO. 50
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70223	

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FINAL SURVEY	
NOTE BOOK	
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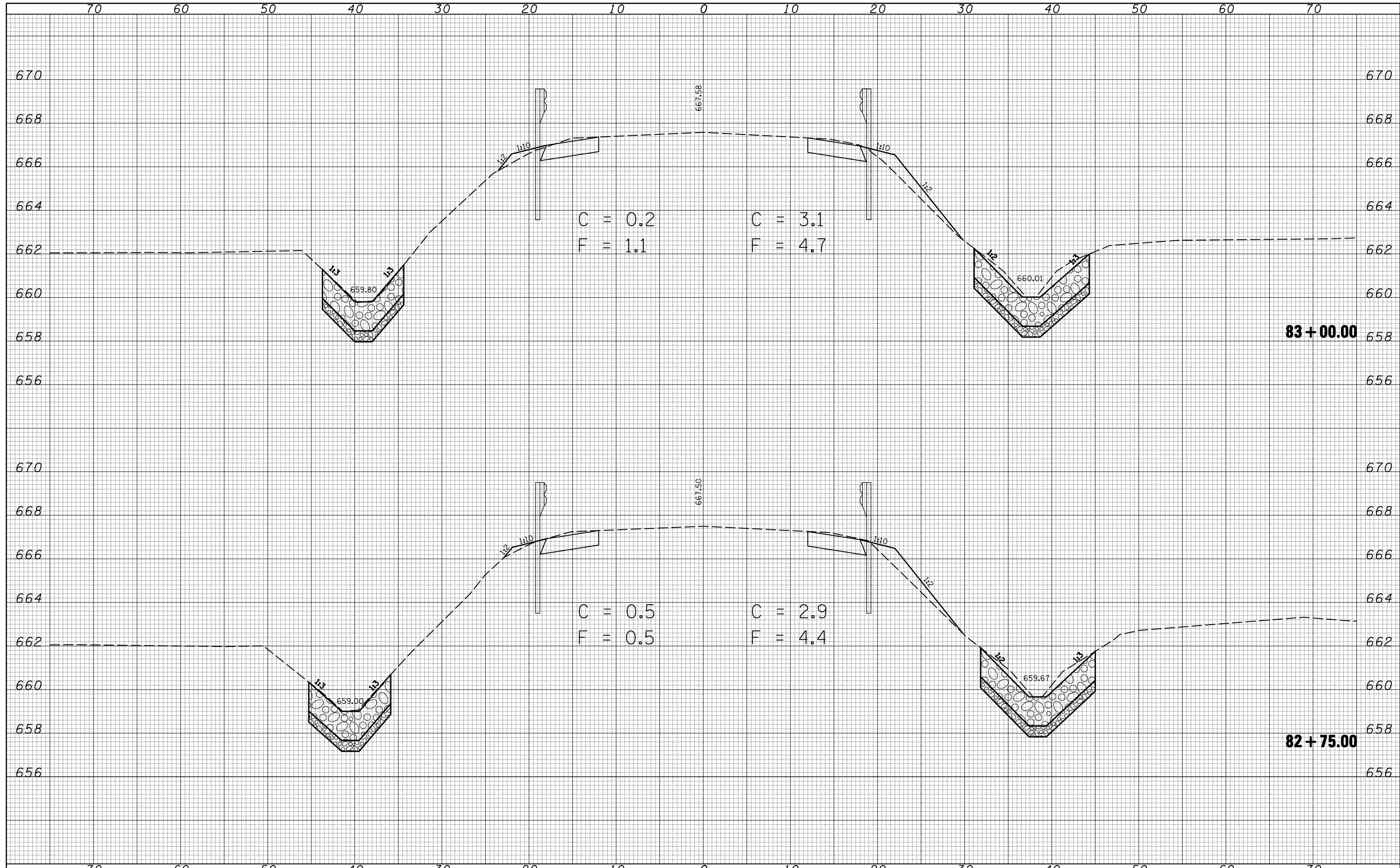
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 36 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwidot\cearlockjd\0110266\70223-sh	t-US36-xsht.dgn	DRAWN -	REVISIED -					323	(143BR)BR	Douglas	68	52
PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISIED -	SCALE:					SHEET NO.	OF SHEETS	STA. 82+50.00	TO STA. 82+50.00	CONTRACT NO. 70223
PLOT DATE = 12/17/2009	DATE -	REVISIED -	ILLINOIS FED. AID PROJECT									

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FINAL SURVEY	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

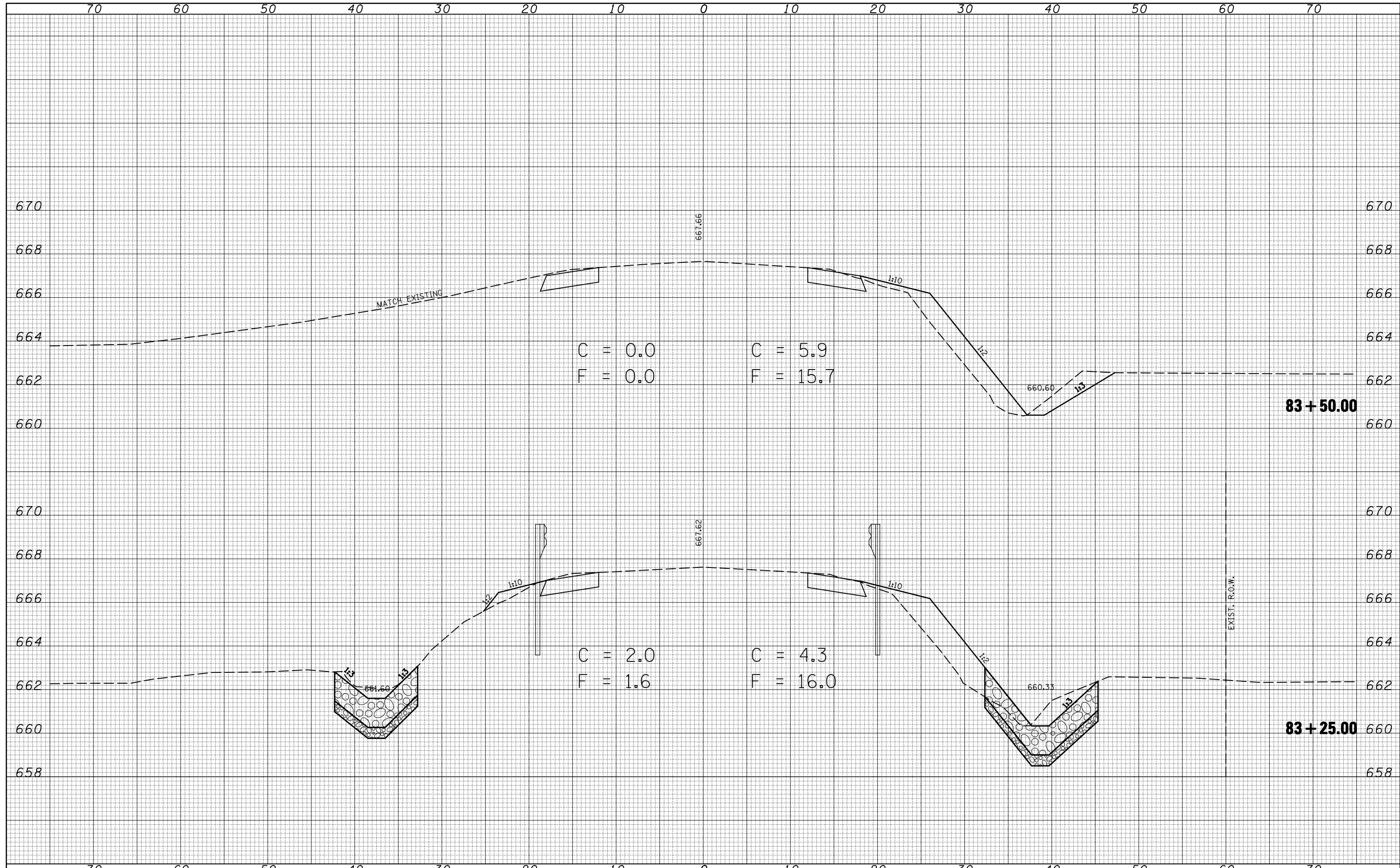
US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 82+75.00 TO STA. 83+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	53
CONTRACT NO. 70223			ILLINOIS FED. AID PROJECT	

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

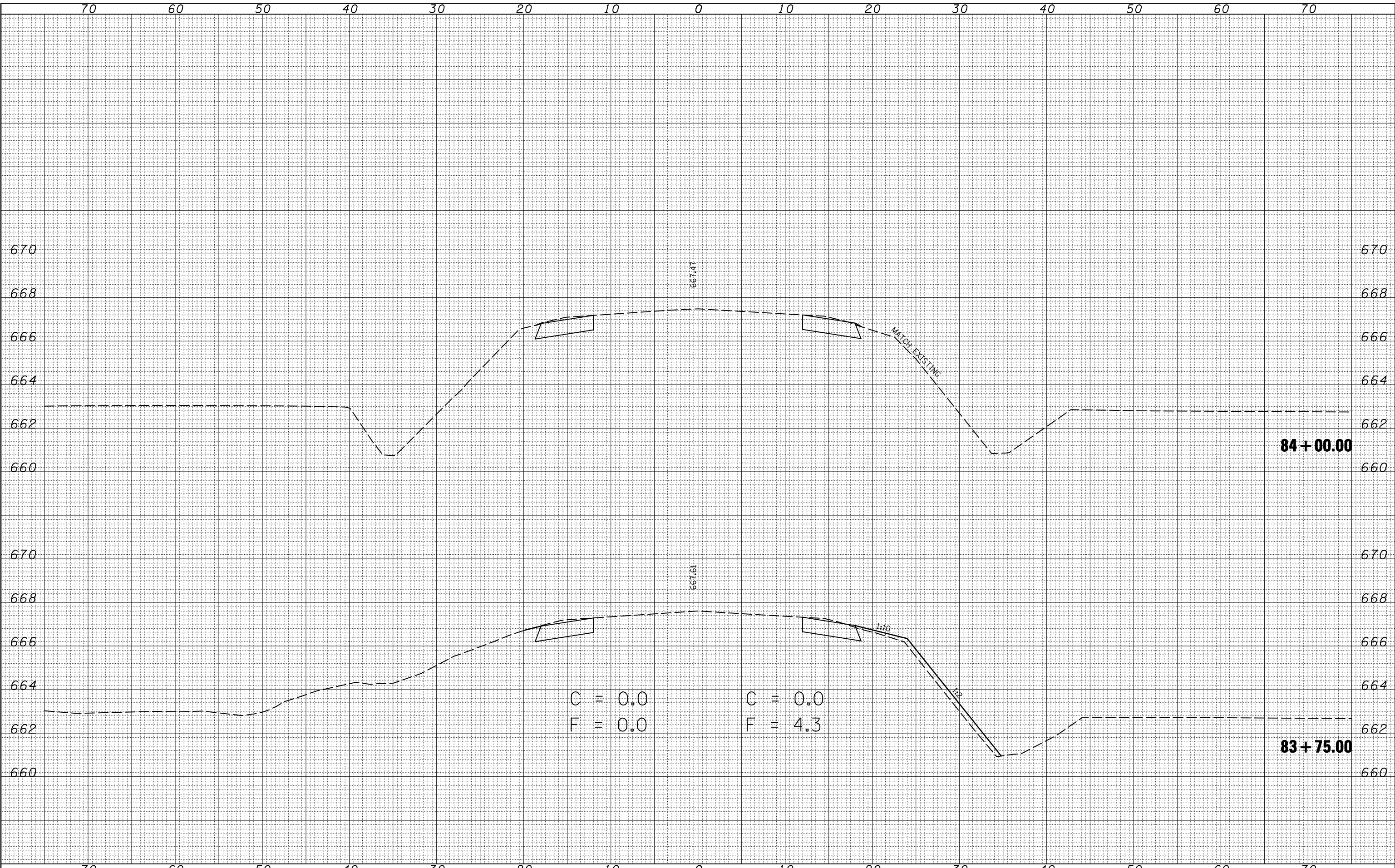
US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 83+25.00 TO STA. 83+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	54
CONTRACT NO. 70223				
ILLINOIS FED. AID PROJECT				

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ORIGINAL SURVEY
NOTE BOOK
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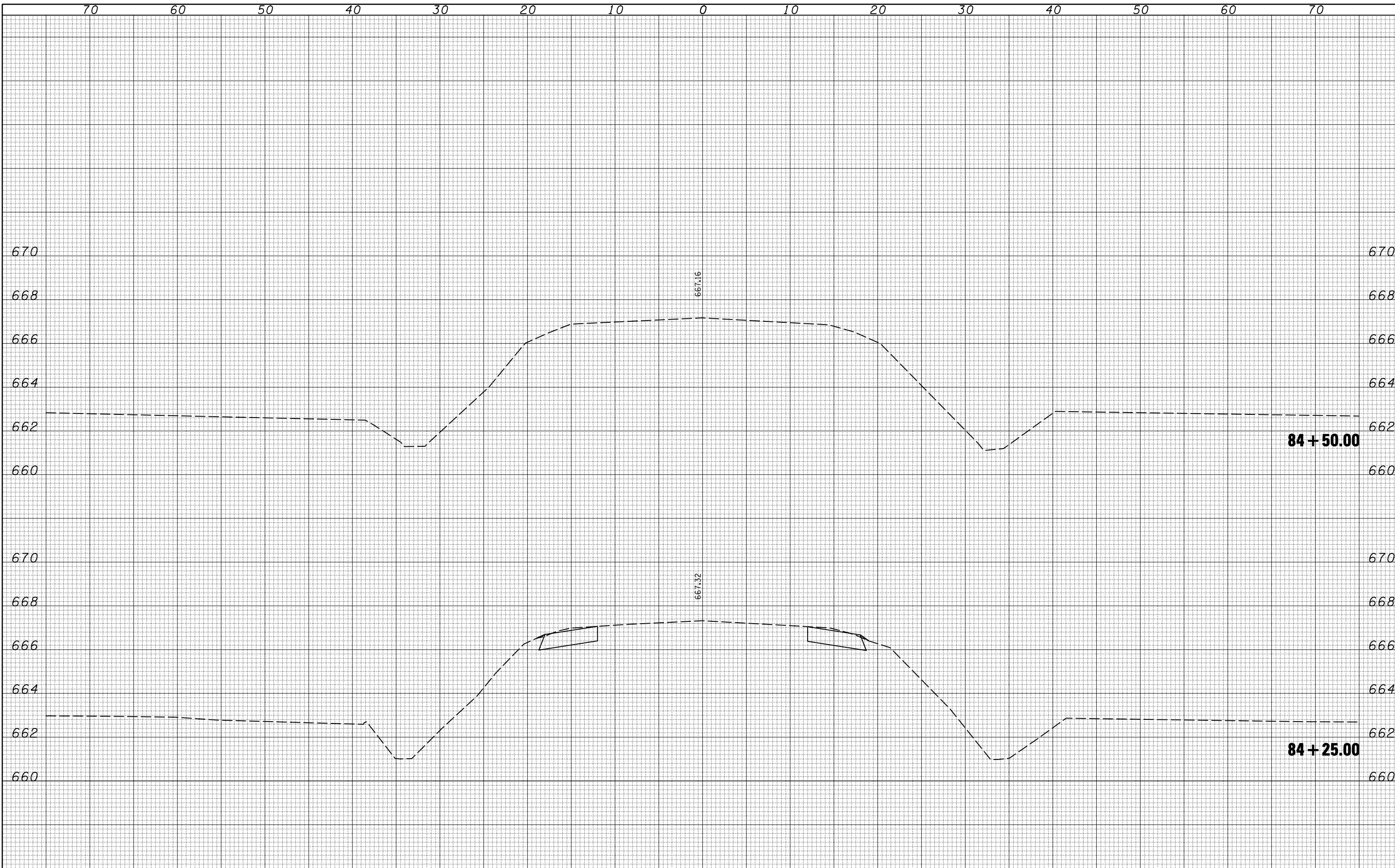
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PLOT DATE = 12/17/2009		DATE -		REVISED -		REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				US 36 CROSS SECTIONS			
				SCALE:	SHEET NO.	OF	SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	55
			CONTRACT NO. 70223	
ILLINOIS FED. AID PROJECT				

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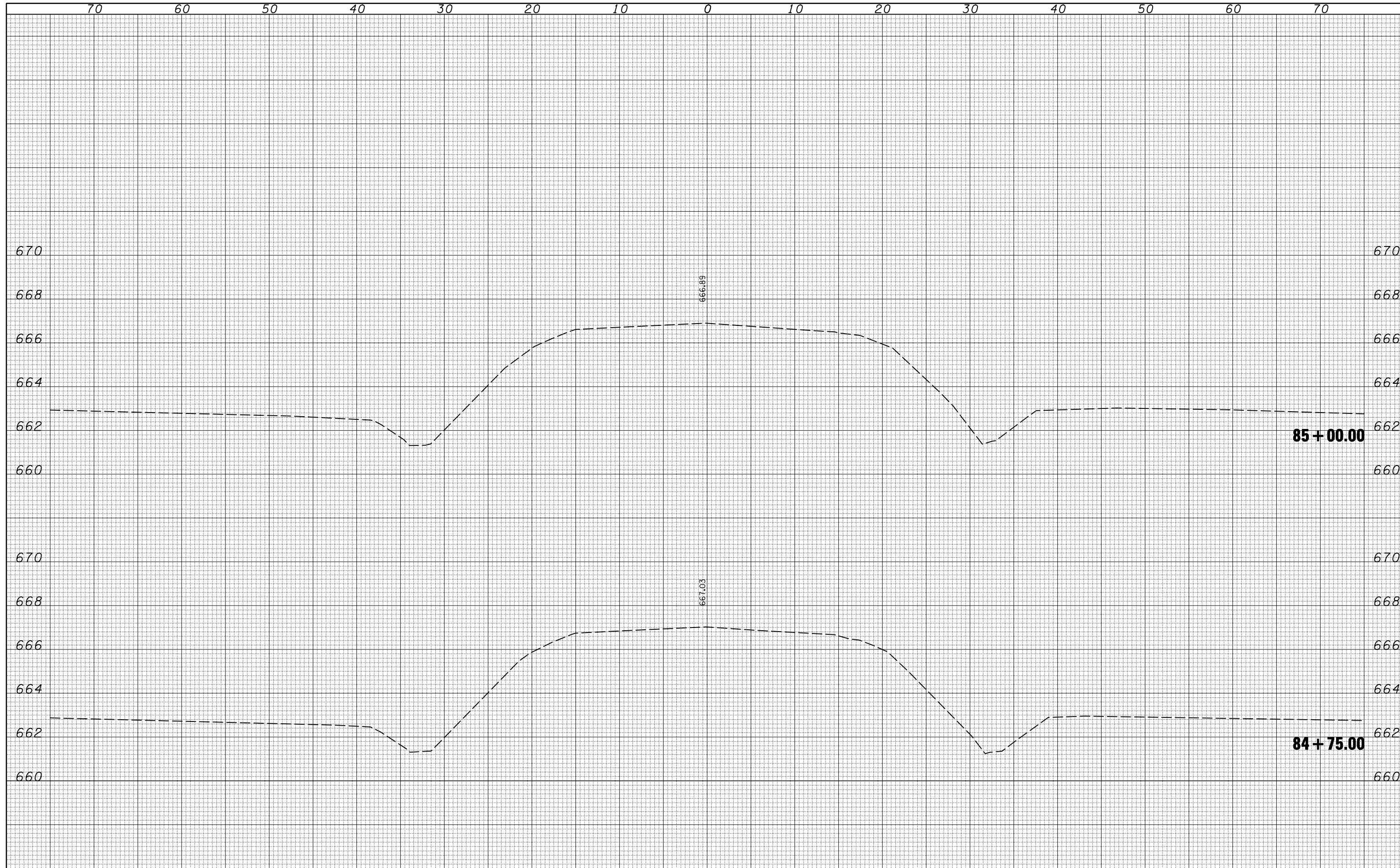
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NOTE BOOK	
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PLOT DATE = 12/17/2009	DATE -	REVISIED -	ILLINOIS FED. AID PROJECT								
		SCALE:		SHEET NO. OF SHEETS		STA. 84+25.00 TO STA. 84+50.00					

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

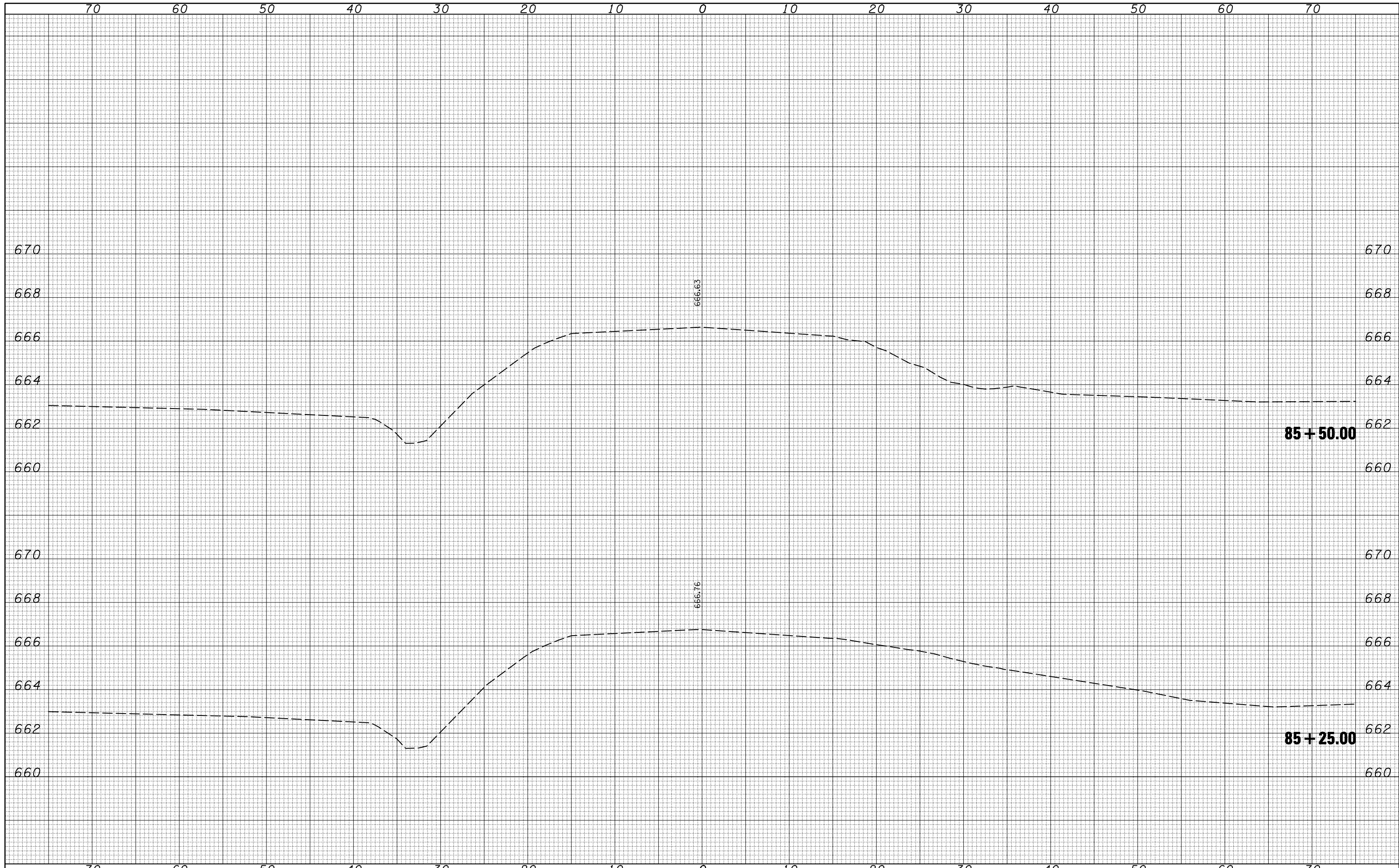
US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 84+75.00 TO STA. 85+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	57
CONTRACT NO. 70223			ILLINOIS FED. AID PROJECT	

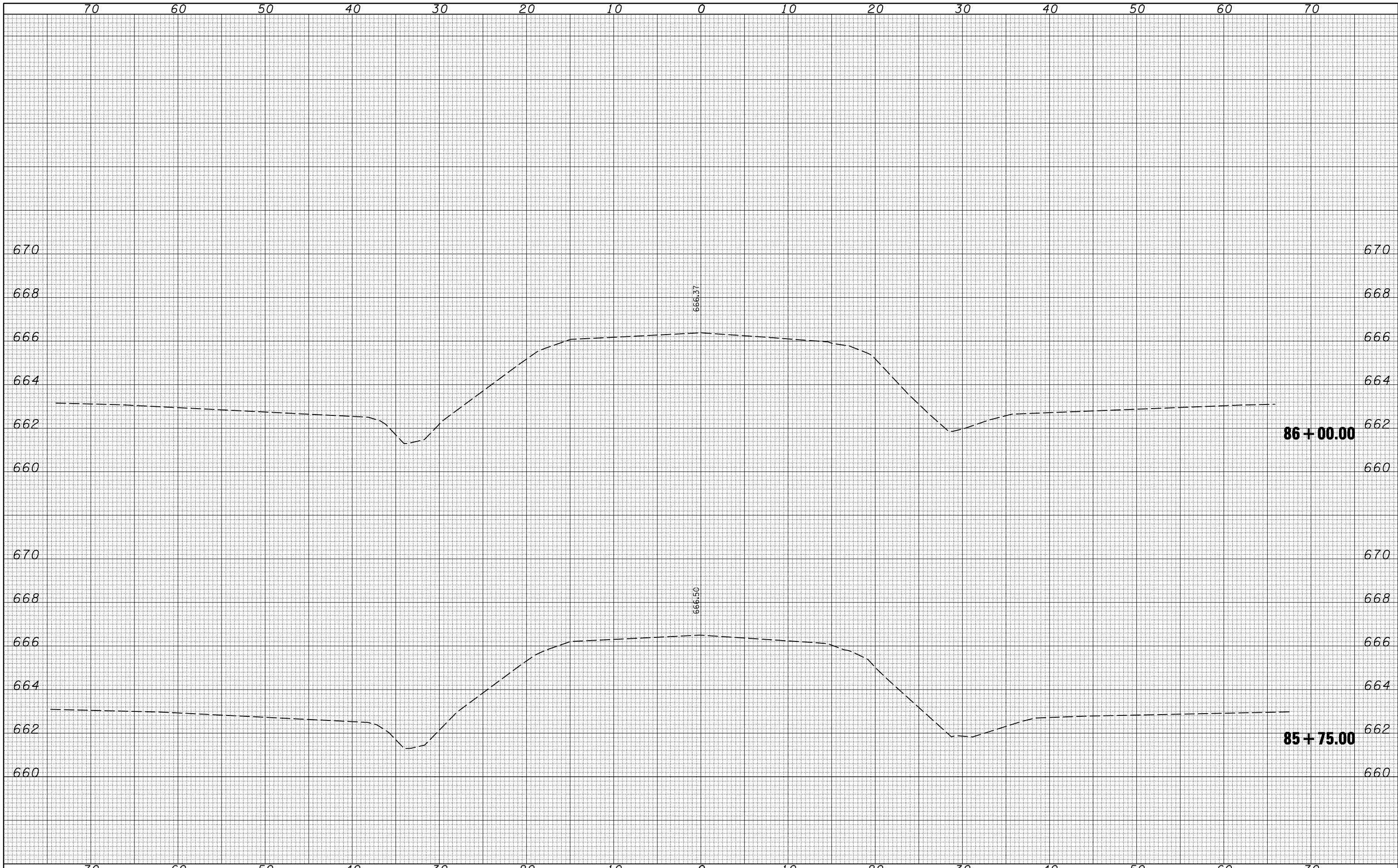
BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 36 CROSS SECTIONS



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USER NAME = cealockjd
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 12/17/2009

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 36 CROSS SECTIONS

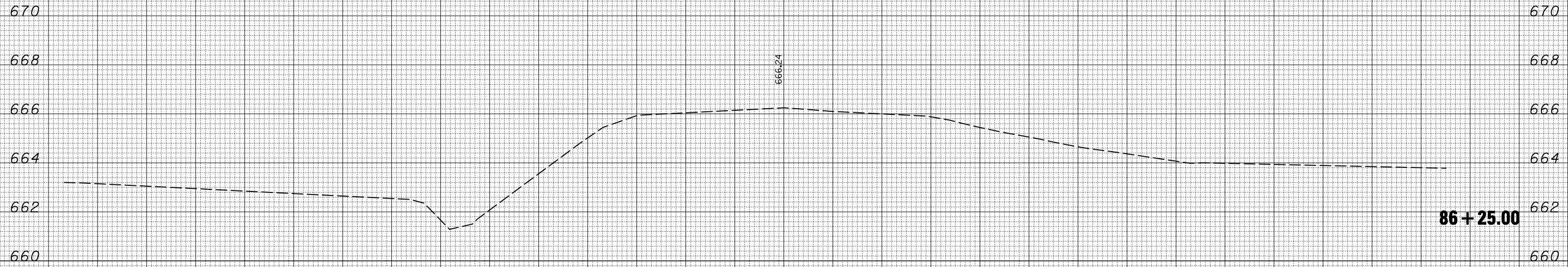
SCALE: SHEET NO. OF SHEETS STA. 85+75.00 TO STA. 86+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	59
CONTRACT NO.			70223	
ILLINOIS FED. AID PROJECT				

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

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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USER NAME = ceorlockjd
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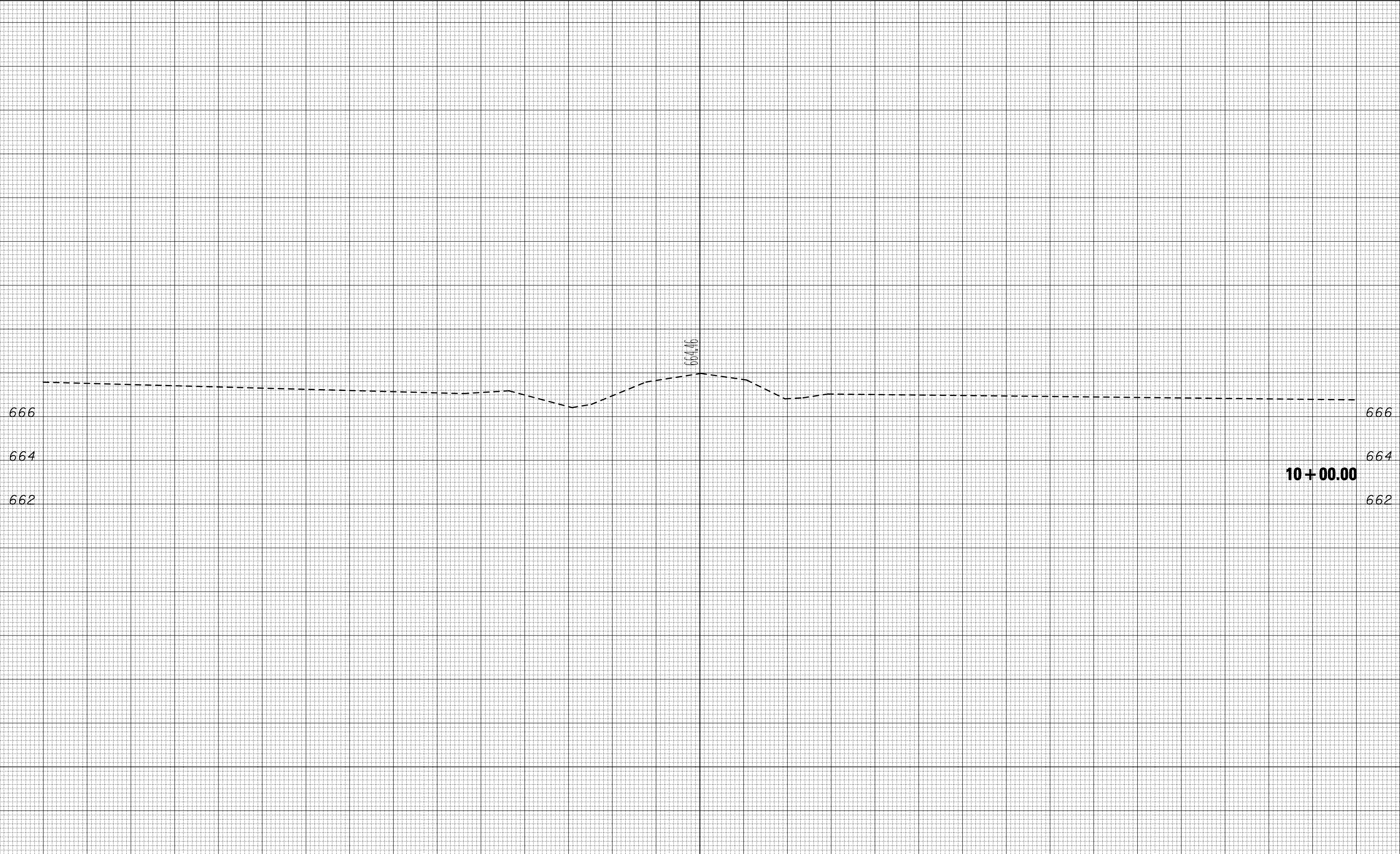
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 36 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 86+25.00 TO STA. 86+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	60
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70223	

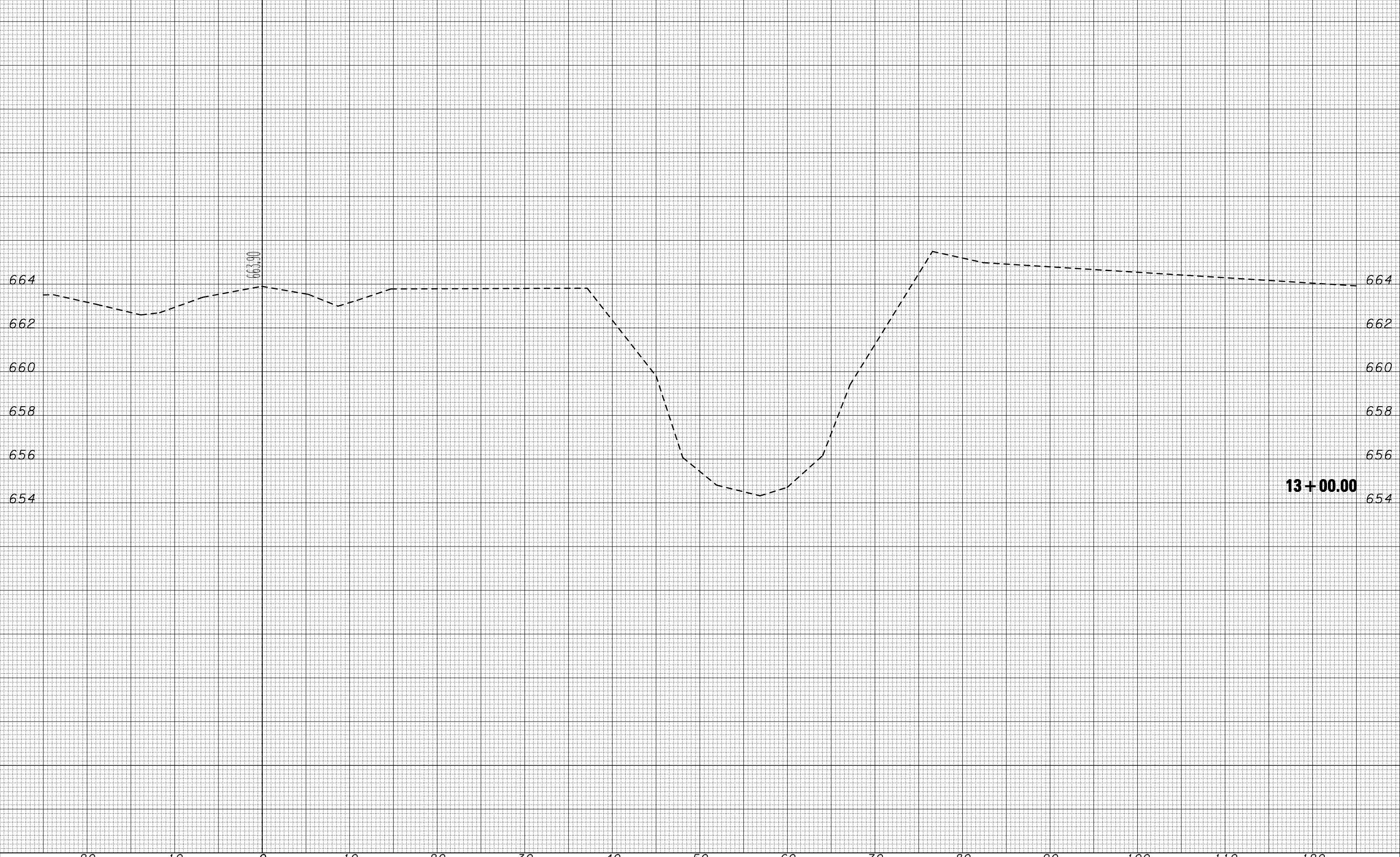
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FINAL SURVEY NOTE BOOK NO.	

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ORIGINAL SURVEY NOTE BOOK NO.	

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FINAL SURVEY NO.	

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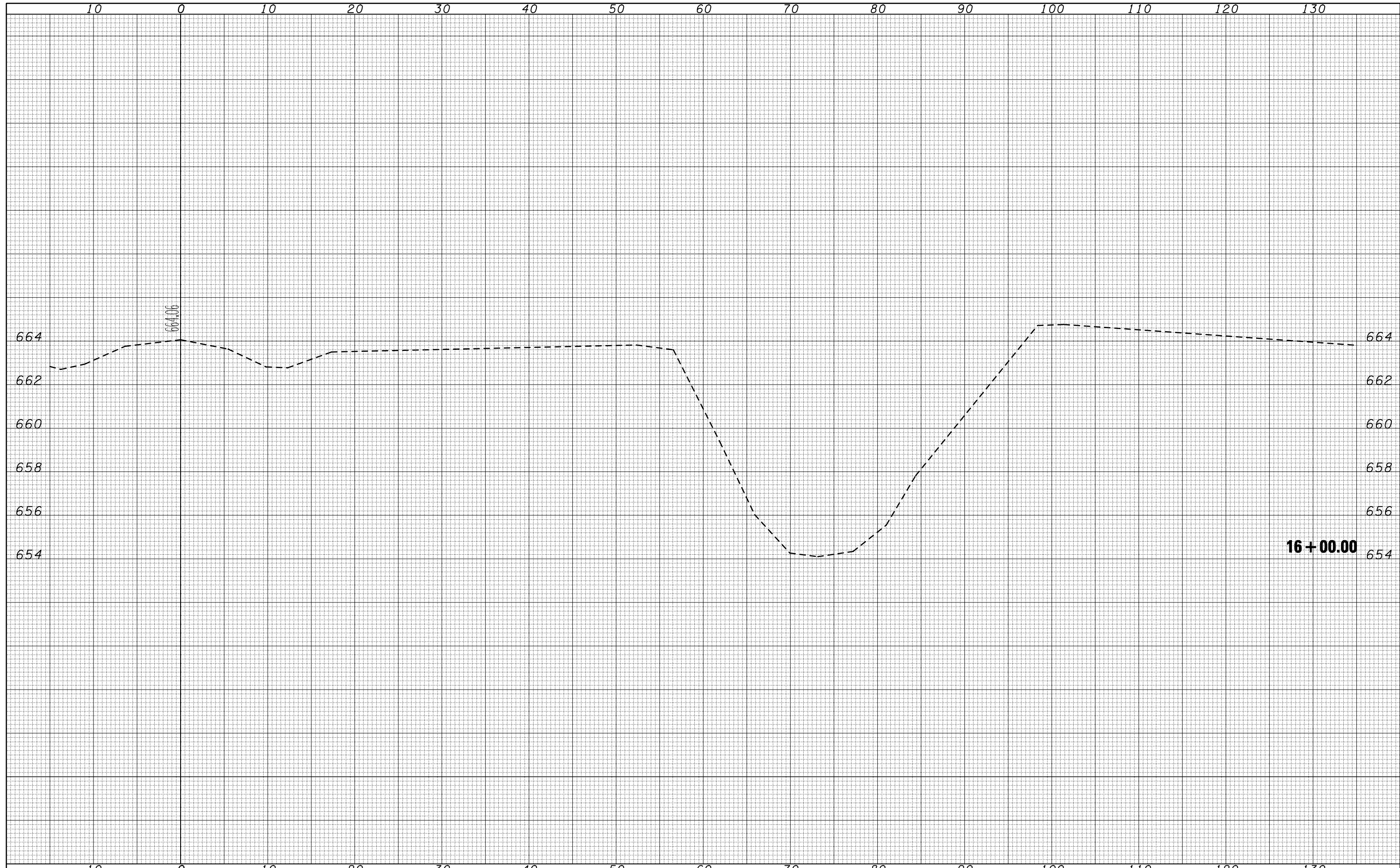
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DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. 2 OF 4 SHEETS STA. 13+00.00 TO STA. 13+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	62
CONTRACT NO.			70223	
ILLINOIS FED. AID PROJECT				



BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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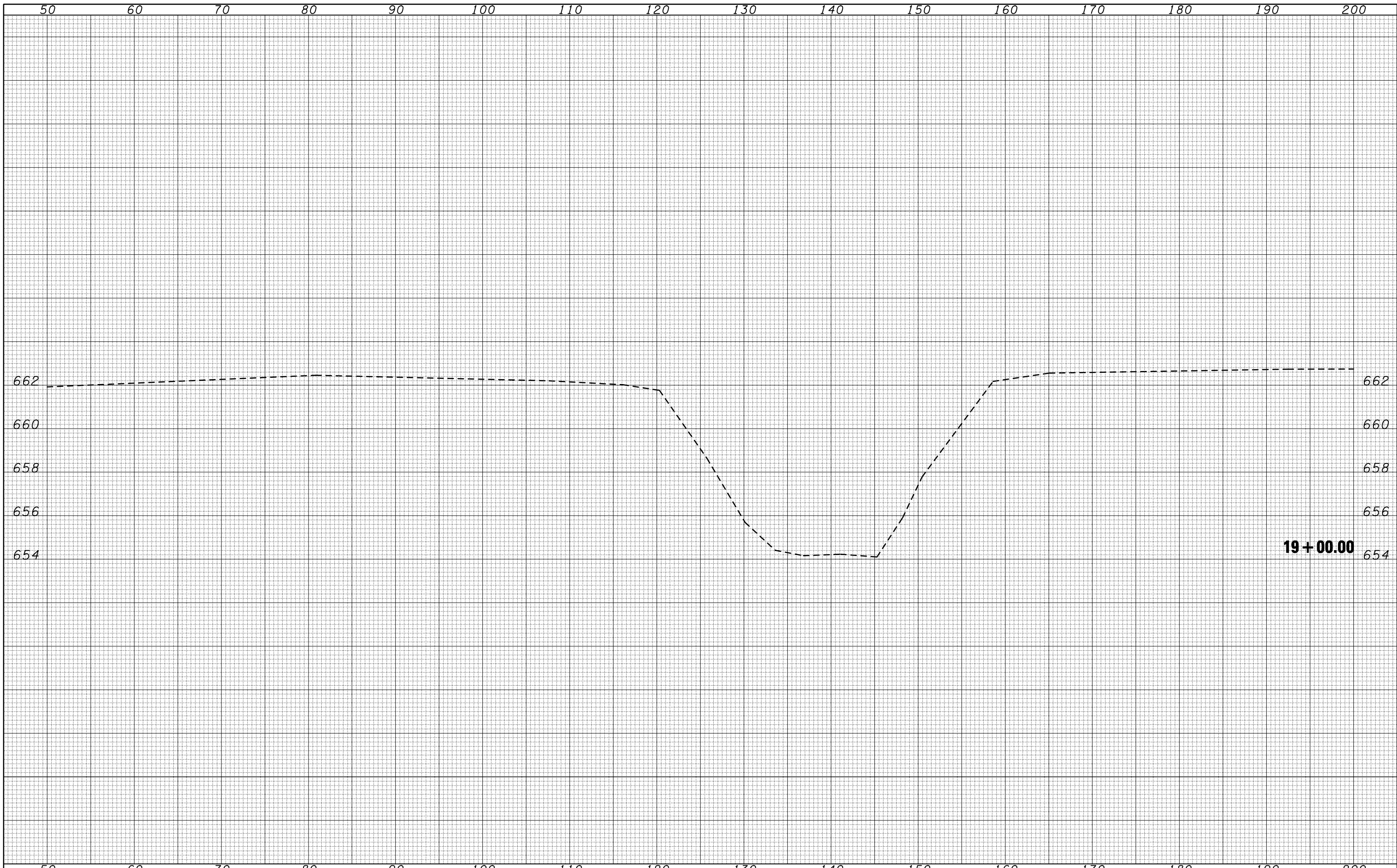
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PLOT DATE = 12/17/2009	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STREAM CROSS SECTIONS - NORTH

SCALE: SHEET NO. 3 OF 4 SHEETS STA. 16+00.00 TO STA. 16+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	63
			CONTRACT NO. 70223	
ILLINOIS FED. AID PROJECT				

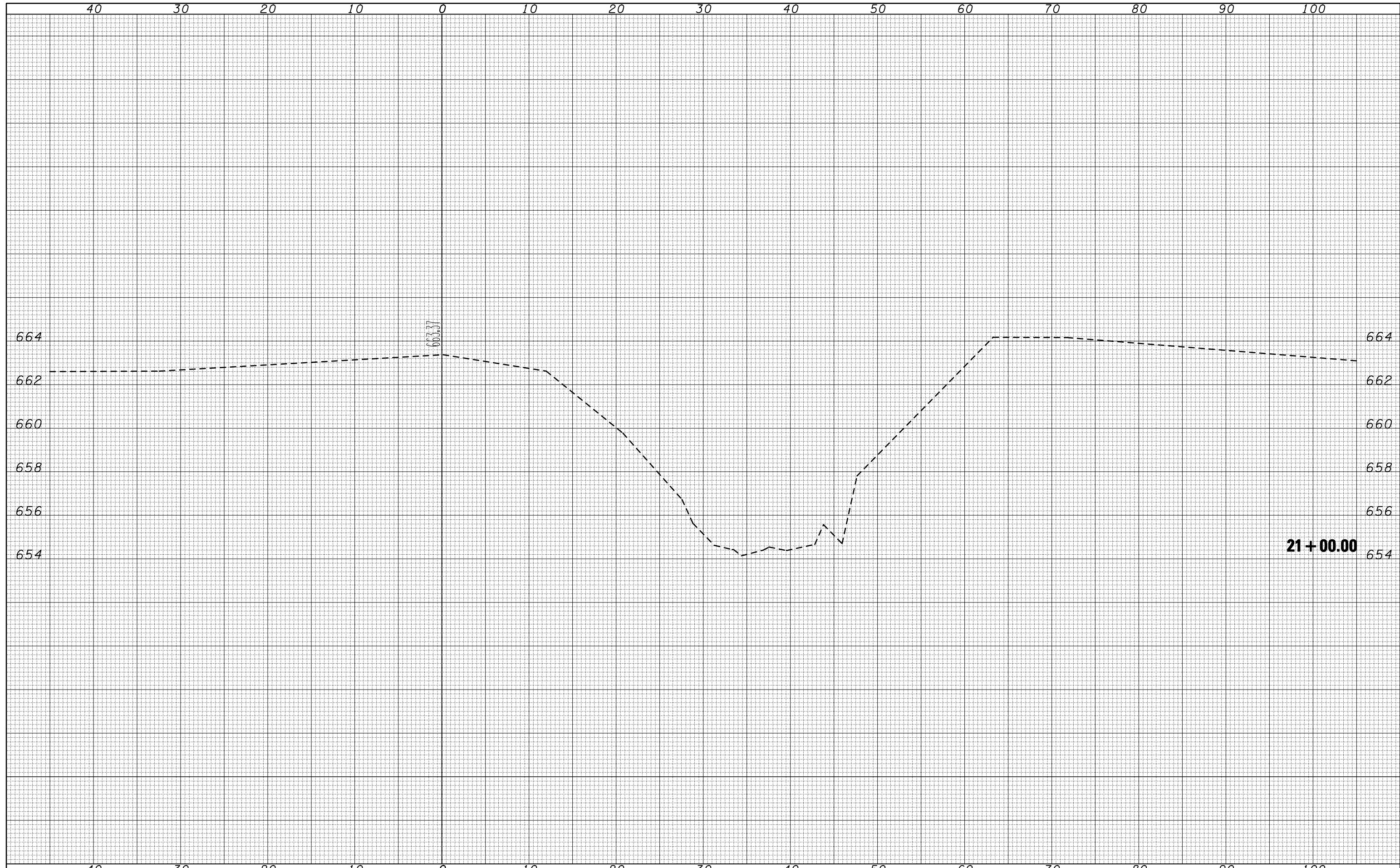


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FINAL SURVEY	
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CHECKED	
ORIGINAL SURVEY	
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FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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PLOT SCALE = 10.0000 ' / IN.	DRAWN -	REVISED -
PLOT DATE = 12/17/2009	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

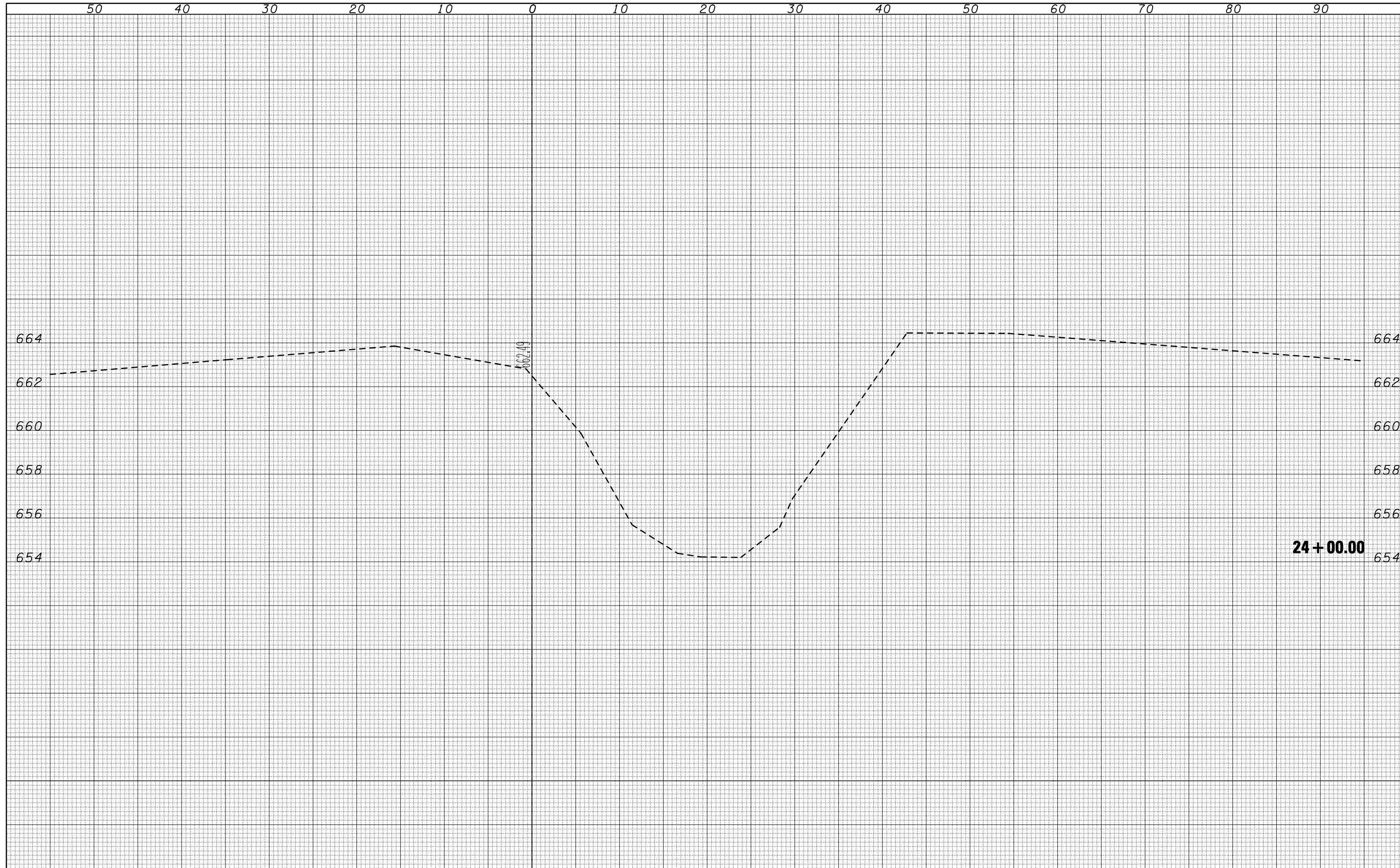
STREAM CROSS SECTIONS - SOUTH

SCALE: SHEET NO. 1 OF 4 SHEETS STA. 21+00.00 TO STA. 21+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	65
CONTRACT NO. 70223			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED		



FILE NAME =	USER NAME = ceo-lockjd	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

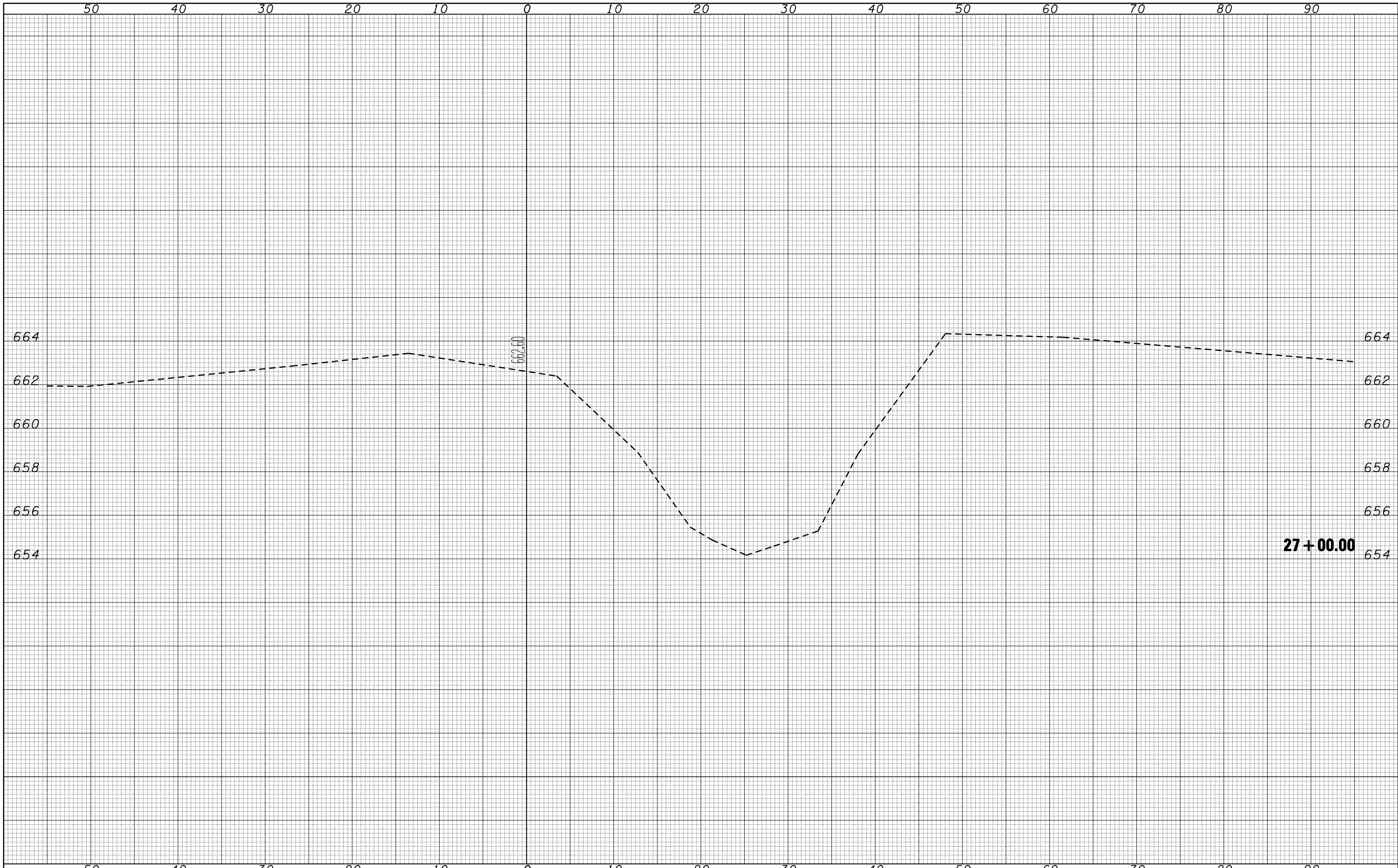
STREAM CROSS SECTIONS - SOUTH

SCALE: SHEET NO. 2 OF 4 SHEETS STA. 24+00.00 TO STA. 24+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	66
CONTRACT NO.			70223	
ILLINOIS FED. AID PROJECT				

BY		DATE	
FINAL SURVEY	SURVEYED		
NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED		

BY		DATE	
ORIGINAL SURVEY	SURVEYED		
NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED		



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STREAM CROSS SECTIONS - SOUTH

SCALE: SHEET NO. 3 OF 4 SHEETS STA. 27+00.00 TO STA. 27+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(143BR)BR	Douglas	68	67

CONTRACT NO. 70223
ILLINOIS FED. AID PROJECT

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