

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	1

* 144SBR-2 & 22VBR-1

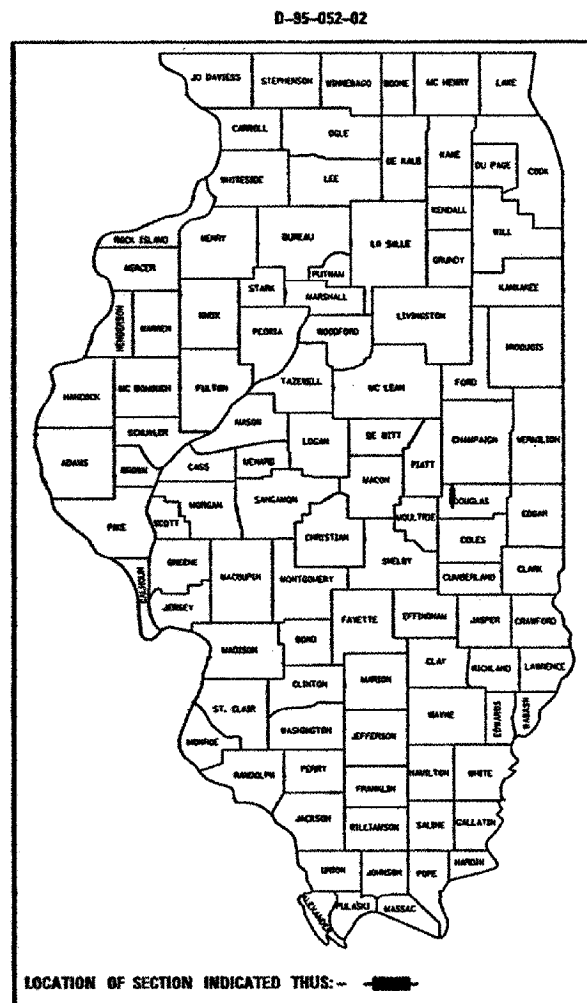
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.S. ROUTE 1671 (U.S. RTE. 45)
SECTION 144SBR-2 & 22VBR-1
PROJECT BRS-1671(108)
DOUGLAS COUNTY

C-95-100-02
BRIDGE REPLACEMENT
OVER UP & CSX RR & OVER U.S. 36 AT TUSCOLA

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

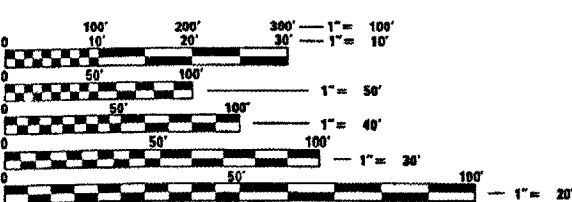


PROJECT ENGINEER: KEVIN TRAPP

SQUAD LEADER: CHRIS GREESON

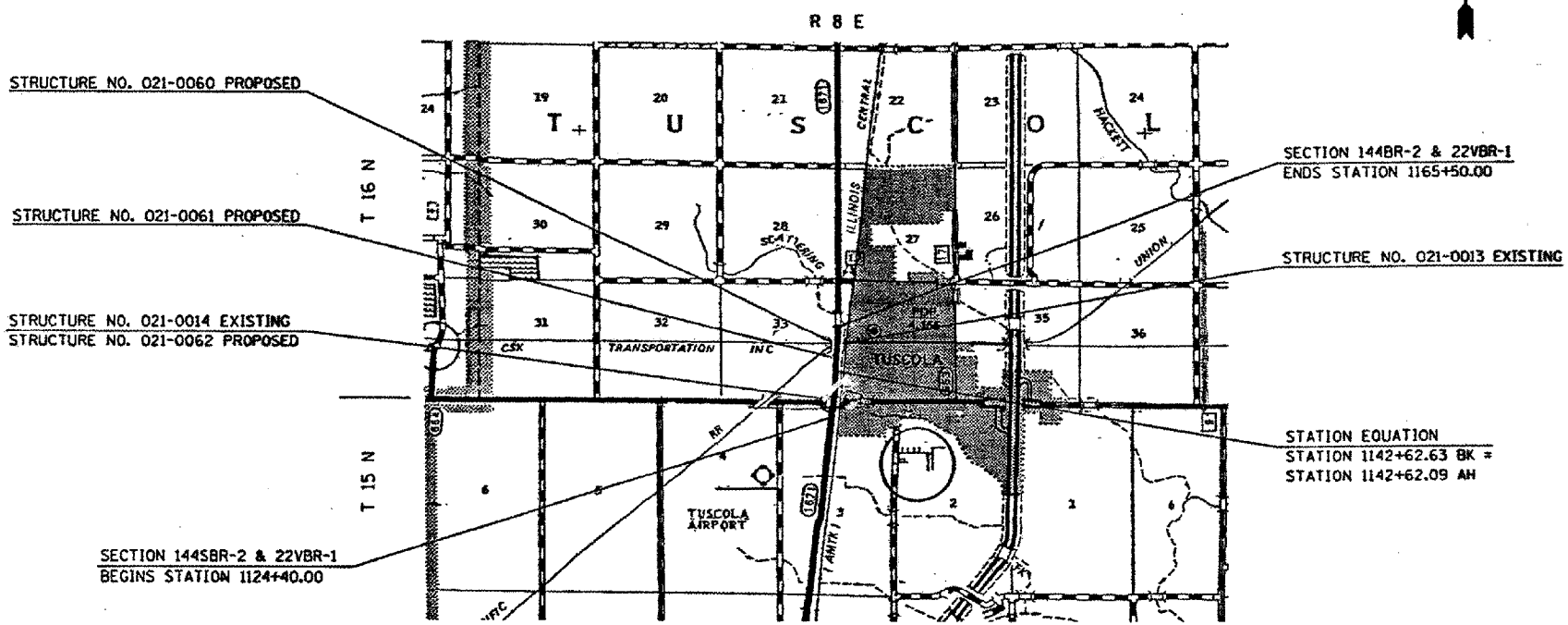
CURRENT ADT
F.A.S. 1671 (U.S. RTE. 45) = 2650 (2003)

DESIGN DESIGNATION
2910 (17) COLLECTOR 3.81 (FD-20)



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 TUSCOLA TOWNSHIP



TOTAL LENGTH OF SECTION & PROJECT = 4,110.54 FEET = 0.779 MILES
NET LENGTH OF SECTION & PROJECT = 4,110.54 FEET = 0.779 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

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

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

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

PLOT DATE : 7/5/2006
FILE NAME : C:\p06\text\4505202 (vbn)70258rtext.dgn
PLOT SCALE : 43.2353 ' / IN.
USER NAME : pierconbr

F.A.S. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* 144SBR-2 & 22VBR-1

INDEX OF SHEETS

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LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
420001-06	PAVEMENT JOINTS
420101-03	7.2 M (24') JOINTED PCC PAVEMENT
420401-05	BRIDGE APPROACH PAVEMENT
421001-01	BAR REINFORCEMENT FOR CRC PAVEMENTS
482001	BITUMINOUS SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482006-01	BITUMINOUS SHOULDER ADJACENT TO RIGID PAVEMENT
482011-01	BIT. SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
483001-02	PCC SHOULDER
515001-02	NAME PLATE FOR BRIDGES
542101	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 375 MM (15") THRU 900 MM (36") DIAMETER AT RIGHT ANGLES WITH ROADWAY
542201	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS, 375 MM (15") THRU 900 MM (36") DIAMETER SKEWED WITH ROADWAY
542401	METAL END SECTION FOR PIPE CULVERTS
602011	CATCH BASIN, TYPE C
604091-01	FRAME AND GRATE, TYPE 24
606001-02	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201	TYPE B GUTTER (INLET, OUTLET, AND ENTRANCE)
606301-02	PC CONCRETE ISLANDS AND MEDIANS
610001-02	SHOULDER INLET WITH CURB
630001-06	STEEL PLATE BEAM GUARDRAIL
630301-03	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-02	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-05	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-02	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001	DELINEATORS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
666001	RIGHT-OF-WAY MARKERS
667101	PERMANENT SURVEY MARKERS
701001-01	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 M (15') AWAY
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
702001-06	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

PLOT DATE : 7/10/2006
 FILE NAME : c:\p\projects\0505202\1671\70258\text.dgn
 PLOT SCALE : 42.3529 "/in.
 USER NAME : dlp\sonbr

ILLINOIS DEPARTMENT OF TRANSPORTATION
**INDEX OF SHEETS &
 LIST OF STANDARDS**
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: NOT TO SCALE
 DATE: 06/19/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 144SBR-2 & 22VBR-1

GENERAL NOTES

SHEET 2 OF 2

G. N. -406H

MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location(s):	US 45	US 45	US45	US45
Mixture Use(s):	Flex Conn, Binder & Bottom 11.25" of F.D. Pvmt.	Incidental, Surface & Top 2" of F.D. Pvmt.	Bottom 6" of Bit Shldr 8"	Top 2" Bit Shldr 8"
AC/PG:	PG 64-22	PG 64-22	PG 58-22	PG 58-22
RAP %: (Max)**	25	15	30	30
Design Air Voids:	4.0% @ Ndes=50	4.0% @ Ndes=50	2.0% @ Ndes=30	3.0% @ Ndes=30
Mixture Composition: (Gradation Mixture)	IL 19.0	IL 9.5	B. A. M.	IL 9.5L
Friction Aggregate:	N. A	Mix C	N. A.	Mix C

G. N. -482

ALL MATERIAL PLACED AS BITUMINOUS SHOULDERS SUPERPAVE SHALL BE COMPACTED TO 94.0-98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO BOTH B. A. M. AND IL 9.5L GRADATION SHOULDER MIXES. THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER QC/QA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR BOTH THE B. A. M. AND IL 9.5L MIXES USING STANDARD CORRELATION PROCEDURES.

G. N. -502.10

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

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

G. N. -540

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

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

G. N. -540A

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

G. N. -542

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

G. N. -631

IF THE CONTRACTOR ELECTS TO USE THE ALTERNATE MOUNTING METHOD OF THRU DRILLING THE MOUNTING HOLES FOR THE TRAFFIC BARRIER TERMINALS, TYPE 6, THE HOLES SHALL BE DRILLED USING A CORE DRILL. A HAMMER DRILL WILL NOT BE ALLOWED.

G. N. -667

THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PCs PTs AND PIs). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.

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. -1004.03

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

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

G. N. -20038

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.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.A.S. ROUTE 1671 (U.S. ROUTE 45)
SECTION 144SBR-2 & 22VBR-1
DOUGLAS COUNTY
Sheet 2 of 2

SCALE: NOT TO SCALE
DATE: 06/19/06

DRAWN BY: B.B.P.
CHECKED BY: C.R.G.

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\0505202 (v8)\70258\text1.dgn
 USER NAME = pfer sonbr

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

• 1445BR-2 & 22VBR-1

SUMMARY OF QUANTITIES

SHEET 1 OF 4

LOCATION OF WORK:
FUNDING BREAKOUT
CONSTRUCTION TYPE CODE:

	FAS 1671 RURAL 2L2W FED 80% STATE 20% 1000-2A 1124+40 - 1130+20.93 1131+24.93 - 1139+69.33 1139+69.33 - 1150+67.00 1155+98.5 - 1165+50.00	FAS 1671 BRIDGE SN 021-0062 FED 80% STATE 20% X280-2A 1130+20.93 TO 1131+24.93	X181-5B FAS 1671 BRIDGE SN 021-0061 FED 80% STATE 20% X181-2A 1150+67.00 TO 1152+69.00	X171-5B FAS 1671 BRIDGE SN 021-0060 FED 80% STATE 20% X171-2A 1154+06.5 TO 1155+98.50
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CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	102.0	102.0			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	172.0	172.0			
20200100	EARTH EXCAVATION	CU YD	870.0	870.0			
20200500	EARTH EXCAVATION (WIDENING)	CU YD	60.0	60.0			
20400100	BORROW EXCAVATION	CU YD	88,330.0	88,330.0			
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	345.0		74.0	161.0	110.0
20800150	TRENCH BACKFILL	CU YD	13.0	13.0			
25000200	SEEDING, CLASS 2	ACRE	6.0	6.0			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	540.0	540.0			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	540.0	540.0			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	540.0	540.0			
25100115	MULCH, METHOD 2	ACRE	6.0	6.0			
25100630	EROSION CONTROL BLANKET	SQ YD	11,879.0	11,879.0			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	3,000.0	3,000.0			
28000300	TEMPORARY DITCH CHECKS	EACH	10.0	10.0			
28000400	PERIMETER EROSION BARRIER	FOOT	2,632.0	2,632.0			
28000500	INLET AND PIPE PROTECTION	EACH	3.0	3.0			
28100105	STONE RIPRAP, CLASS A3	SO YD	27.5	27.5			
30200650	PROCESSING MODIFIED SOILS 12"	SO YD	5,180.0	5,180.0			
30201500	LIME	TON	116.6	116.6			
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SO YD	233.0	233.0			
31102200	SUB-BASE GRANULAR MATERIAL, TYPE C 5"	SO YD	1,528.0	1,528.0			
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SO YD	155.0	155.0			
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	933.5	933.5			
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	639.0	639.0			
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SO YD	846.0	846.0			
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	106.0	106.0			
40800040	INCIDENTAL BITUMINOUS SURFACING	TON	156.0	156.0			
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SO YD	207.0	207.0			
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SO YD	680.0	680.0			
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	334.0	334.0			

• SPECIALTY ITEMS

PLOT DATE : 7/13/2006
 FILE NAME : G:\projects\40505202 (W\170258)text.dgn
 PLOT SCALE : 42.3543 / IN.
 USER NAME : BIRSONDR

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.S. ROUTE 1671 (U.S. ROUTE 45)
SECTION 1445BR-2 & 22VBR-1
DOUGLAS COUNTY
Sheet 1 of 4

SCALE: NOT TO SCALE
DATE: 06/20/06

DRAWN BY: B.B.P.
CHECKED BY: C.R.G.

CONTRACT NO. 70258				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 1445BR-2 & 22VBR-1				

SUMMARY OF QUANTITIES

SHEET 2 OF 4

LOCATION OF WORK:
FUNDING BREAKOUT
CONSTRUCTION TYPE CODE:

FAS 1671 RURAL 2L2W FED 80% STATE 20% 1000-2A 1124+40 - 1130+20.93 1131+24.93 - 1139+69.33 1139+69.33 - 1150+67.00 1155+98.5 - 1165+50.00	FAS 1671 BRIDGE SN 021-0062 FED 80% STATE 20% X280-2A 1130+20.93 TO 1131+24.93	FAS 1671 BRIDGE SN 021-0061 FED 80% STATE 20% X181-2A 1150+67.00 TO 1152+69.00	FAS 1671 BRIDGE SN 021-0060 FED 80% STATE 20% X171-2A 1154+06.5 TO 1155+98.50
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X181-5B

X171-5B

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
44000100	PAVEMENT REMOVAL	SQ YD	1,580.0	1,580.0			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,569.0	1,569.0			
44000700	APPROACH SLAB REMOVAL	SQ YD	387.0	387.0			
44003100	MEDIAN REMOVAL	SQ FT	153.0	153.0			
44004250	PAVED SHOULDER REMOVAL	SQ YD	73.0	73.0			
44004300	PAVEMENT BREAKING	SQ YD	1,435.0	1,435.0			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	112.0	112.0			
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	1,528.0	1,528.0			
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	69.0	69.0			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0		1.0		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1.0			.5	.5
50104000	BRIDGE RAIL REMOVAL	FOOT	1,381.0		181.0	600.0	600.0
50200100	STRUCTURE EXCAVATION	CU YD	803.0		221.0	346.0	236.0
50300225	CONCRETE STRUCTURES	CU YD	662.8		141.4	289.8	231.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	495.2			262.9	232.3
50300260	BRIDGE DECK GROOVING	SQ YD	1,693.0		380.0	673.0	640.0
50300300	PROTECTIVE COAT	SQ YD	1,730.0			887.0	843.0
50301200	CONCRETE WEARING SURFACE	SQ YD	403.9		403.9		
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3,629.5		3,629.5		
50400905	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 42 IN.	FOOT	1,195.0			1,195.0	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1.0				1.0
50500505	STUD SHEAR CONNECTORS	EACH	3,330.0				3,330.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	155,450.0		17,800.0	72,300.0	65,350.0
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	205.0		205.0		
51100100	SLOPE WALL 4 INCH	SQ YD	416.0		359.0	30.0	27.0
51100500	BITUMINOUS COATED AGGREGATE SLOPEWALL 6"	SQ YD	1,105.0			616.0	489.0
51201600	FURNISHING STEEL PILES HP12X53	FOOT	2,720.0		585.0	1,490.0	645.0
51201610	FURNISHING STEEL PILES HP12X63	FOOT	325.0			325.0	
51201700	FURNISHING STEEL PILES HP12X74	FOOT	695.0				695.0
51202700	DRIVING STEEL PILES	FOOT	3,740.0		585.0	1,815.0	1,340.0
51203600	TEST PILE STEEL HP12X53	EACH	9.0		4.0	3.0	2.0
51203610	TEST PILE STEEL HP12X63	EACH	1.0			1.0	

• SPECIALTY ITEMS

SUMMARY OF QUANTITIES

Sheet 2 of 4

PLOT DATE = 7/01/2008
 FILE NAME = I:\projects\70258\text.dgn
 PLOT SCALE = 42.3529 IN.
 USER NAME = pierconbr

F.A.S. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* 1445BR-2 & 22VBR-1

SUMMARY OF QUANTITIES

SHEET 3 OF 4

X181-5B

X171-5B

LOCATION OF WORK:	FAS 1671 RURAL	FAS 1671 BRIDGE	FAS 1671 BRIDGE	FAS 1671 BRIDGE
FUNDING BREAKOUT	2L2W FED 80% STATE 20%	SN 021-0062 FED 80% STATE 20%	SN 021-0061 FED 80% STATE 20%	SN 021-0060 FED 80% STATE 20%
CONSTRUCTION TYPE CODE:	1000-2A 1124+40 - 1130+20.93 1131+24.93 - 1139+69.33 1139+69.33 - 1150+67.00 1155+98.5 - 1165+50.00	X280-2A 1130+20.93 TO 1131+24.93	X181-2A 1150+67.00 TO 1152+69.00	X171-2A 1154+06.5 TO 1155+98.50

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
51203700	TEST PILE STEEL HP12X74	EACH	2.0				2.0
51205200	TEMPORARY SHEET PILING	SQ FT	416.0			86.0	330.0
51500100	NAME PLATES	EACH	3.0		1.0	1.0	1.0
54001000	BOX CULVERT END SECTIONS	EACH	2.0	2.0			
54002020	EXPANSION BOLTS 3/4 INCH	EACH	4.0	4.0			
54010503	PRECAST CONCRETE BOX CULVERT 5' X 3'	FOOT	156.0	156.0			
54213447	END SECTIONS 12"	EACH	11.0	11.0			
54215415	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 15"	EACH	3.0	3.0			
54248510	CONCRETE COLLAR	CU YD	0.8	0.8			
542A1060	PIPE CULVERTS, CLASS A, TYPE 2 15"	FOOT	217.0	217.0			
55100500	STORM SEWER REMOVAL 12"	FOOT	90.0	90.0			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	195.0		47.0	86.0	62.0
60100945	PIPE DRAINS 12"	FOOT	675.0	675.0			
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	412.0		126.0	154.0	132.0
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	15.0	15.0			
60404400	FRAMES AND GRATES, TYPE 4	EACH	1.0	1.0			
60500060	REMOVING INLETS	EACH	4.0	4.0			
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	21.3	21.3			
60602800	CONCRETE GUTTER, TYPE B	FOOT	131.0	131.0			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	265.0	265.0			
60622354	CONCRETE MEDIAN, TYPE SM-6 (DOWELLED)	SO FT	153.0	153.0			
60900515	CONCRETE THRUST BLOCKS	EACH	11.0	11.0			
• 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	2,575.0	2,575.0			
• 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.0	1.0			
• 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8.0	8.0			
• 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4.0	4.0			
• 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	1.0	1.0			
• 63100169	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)	EACH	10.0	10.0			
• 63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	3,025.0	3,025.0			
66101120	BITUMINOUS SHOULDER CURB	FOOT	1,868.0	1,868.0			
66201120	CONCRETE SHOULDER CURB	FOOT	155.0	155.0			
•	SPECIALTY ITEMS						

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

- F.A.S. ROUTE 1671 (I.L.S. ROUTE 45)
SECTION 1445BR-2 & 22VBR-1
DOUGLAS COUNTY
Sheet 3 of 4

SCALE: NOT TO SCALE DRAWN BY: B.B.P.
DATE: 06/20/06 CHECKED BY: C.R.G.

PLOT DATE = 7/10/2006
FILE NAME = c:\p\projects\0505202 (v01)\70258-ext.dgn
PLOT SCALE = 42.3529' / IN.
USER NAME = plersomb

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

• 1445BR-2 & 22VBR-1

SUMMARY OF QUANTITIES

SHEET 4 OF 4

X 181-5B

X 171-5B

LOCATION OF WORK:	FAS 1671	FAS 1671	FAS 1671	FAS 1671
	RURAL	BRIDGE	BRIDGE	BRIDGE
FUNDING BREAKOUT	2L2W	SN 021-0062	SN 021-0061	SN 021-0060
CONSTRUCTION TYPE CODE:	FED 80% STATE 20% 1000-2A	FED 80% STATE 20% X280-2A	FED 80% STATE 20% X181-2A	FED 80% STATE 20% X171-2A
	1124+40 - 1130+20.93	1130+20.93	1150+67.00	1154+06.5
	1131+24.93 - 1139+69.33	TO	TO	TO
	1139+69.33 - 1150+67.00	1131+24.93	1152+69.00	1155+98.50
	1155+98.5 - 1165+50.00			

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12.0	12.0			
67100100	MOBILIZATION	L SUM	1.0	1.0			
70100450	TRAFFIC CONT. AND PROTECTION STANDARD 701201	L SUM	1.0		1.0		
70101900	TRAFFIC CONTROL AND PROTECTION (DETOUR 1)	L SUM	1.0	.2		.3	.3
• 70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	78.0	78.0			
• 70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	17,430.0	17,430.0			
• 70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	360.0	360.0			
• 70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	93.0	93.0			
• 70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	710.0	710.0			
• 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	78.0	78.0			
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,914.0	4,914.0			
• 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	155.0	155.0			
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	62.0	62.0			
• 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	8,403.0	8,403.0			
• 78008310	POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	2,904.0	2,904.0			
• 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	54.0	54.0			
• 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	9.0		3.0	3.0	3.0
• 78200410	GUARDRAIL MARKERS, TYPE A	EACH	31.0	31.0			
• 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	11.0	11.0			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	52.0	52.0			
X0322379	CONCRETE SEALER	SQ YD	39.3	39.3			
X0324865	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	2,520.2	241.0	606.2	852.0	821.0
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	536.0	536.0			
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	1,229.0	1,229.0			
X4073146	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 13 1/4"	SQ YD	4,607.0	4,607.0			
X7011005	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1.0		1.0		
XX004094	CONCRETE SLOPEWALL	SQ FT	3,227.0		3,227.0		
Z0002600	BAR SPLICERS	EACH	200.0		72.0	64.0	64.0
Z0038700	PERMANENT BENCH MARKS	EACH	2.0		1.0		1.0
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0			.5	.5

• SPECIALTY ITEMS

SUMMARY OF QUANTITIES

Sheet 4 of 4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1

STRUCTURAL PAVEMENT DESIGN INFORMATION

F.A.S. 1671 (U.S. ROUTE 45) PROPOSED TYPICAL SECTION ③

STRUCTURAL DESIGN TRAFFIC: 2,910 Year 2017
 PV = 2,532 SU = 166 MU = 212
 ROAD/STREET CLASSIFICATION: Major Collector
 P = 50% S = 50% M = 50%
 TRAFFIC FACTOR: Actual TF = 1.01 AC Type = 20
 Minimum TF = 3.81
 PG GRADE: Binder = PG 64-22 Binder = PG 64-22
 Surface = PG 64-22
 PAVEMENT TYPE: Bituminous Concrete Pavement
 (Full-Depth), Superpave 1 3/4"
 SUBGRADE SUPPORT RATING:
 SSR = Poor (Sta. 1139+69.33 to Sta. 1150+37.00)
 SSR = Poor (Sta. 1156+28.50 to Sta. 1164+50.00)

F.A.S. 1671 (U.S. ROUTE 45) PROPOSED TYPICAL SECTION ⑤

STRUCTURAL DESIGN TRAFFIC: 2,910 Year 2017
 PV = 2,532 SU = 166 MU = 212
 ROAD/STREET CLASSIFICATION: Major Collector
 P = 50% S = 50% M = 50%
 TRAFFIC FACTOR: Actual TF = 1.43 AC Type = N/A
 Minimum TF = 5.51
 PAVEMENT TYPE: P.C.C. Pavement, 10" (Jointed)
 SUBGRADE SUPPORT RATING:
 SSR = Poor (Sta. 1152+39.00 to Sta. 1153+76.50)

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\0505202 (v8)\70258\text1.dgn
 USER NAME = pier.sombir

ILLINOIS DEPARTMENT OF TRANSPORTATION
**STRUCTURAL PAVEMENT
 DESIGN INFORMATION**
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

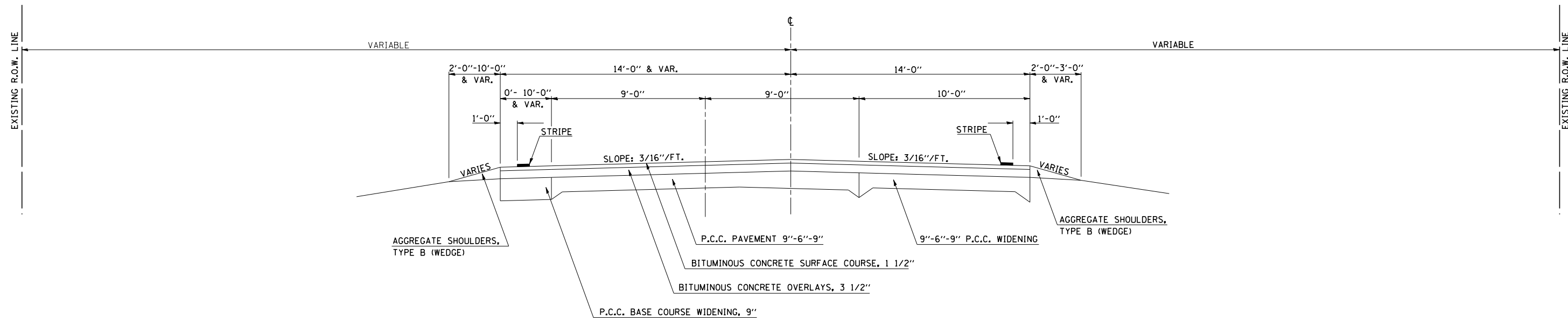
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 DATE: 05/23/06 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	•	DOUGLAS	181	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				

Ⓐ EXISTING TYPICAL CROSS SECTION

U.S. ROUTE 45

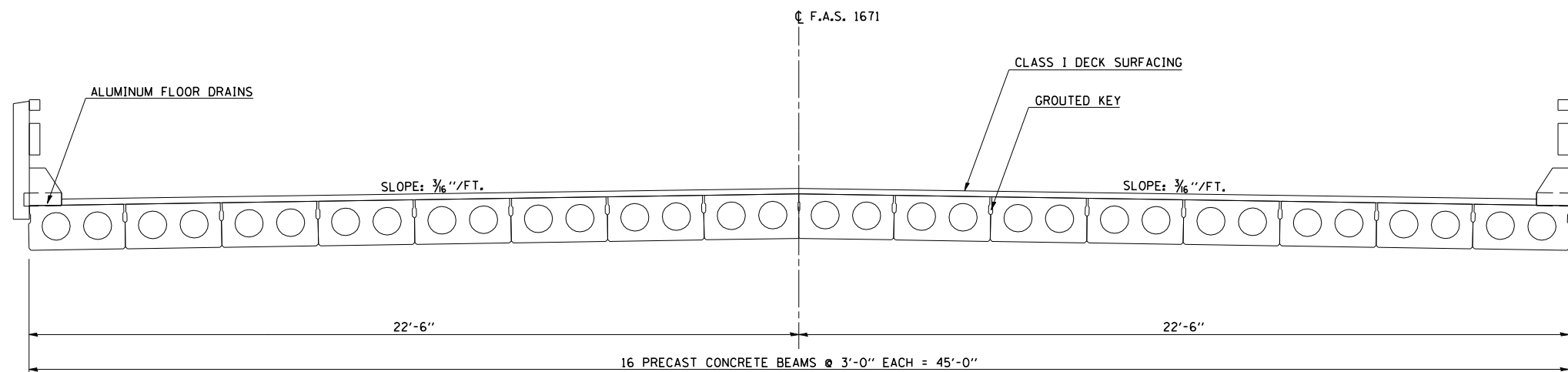
STATION TO STATION
 1124+40.00 TO 1130+25.16 Ⓑ
 Ⓒ 1131+20.70 TO 1142+62.63 Ⓒ



Ⓑ EXISTING TYPICAL CROSS SECTION

STRUCTURE NO. 021-0014

STATION TO STATION
 Ⓐ 1130+25.16 TO 1131+20.70 Ⓐ



PLOT DATE = 7/10/2006
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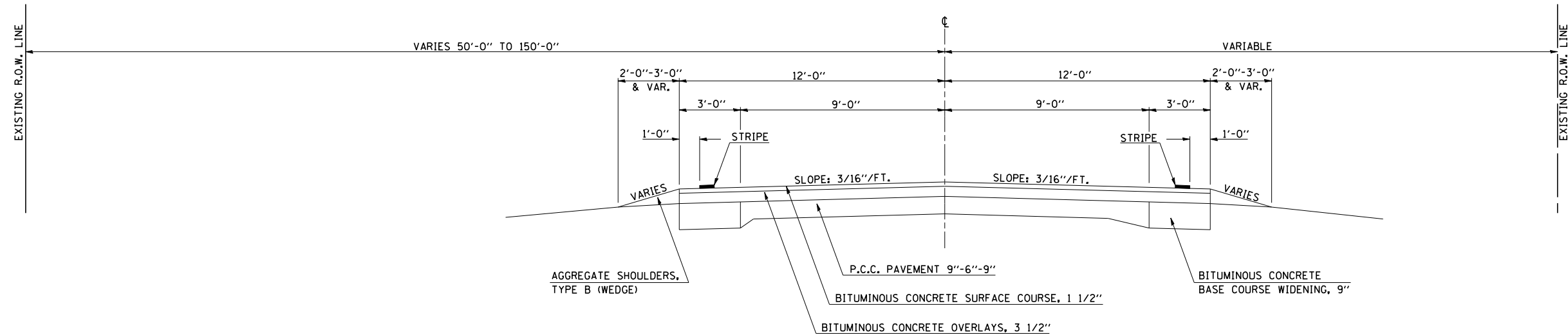
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING TYPICAL CROSS SECTIONS
 F.A.S. 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY
 SCALE: NOT TO SCALE
 DATE: 06/07/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 144SBR-2 & 22VBR-1				

© EXISTING TYPICAL CROSS SECTION

U.S. ROUTE 45

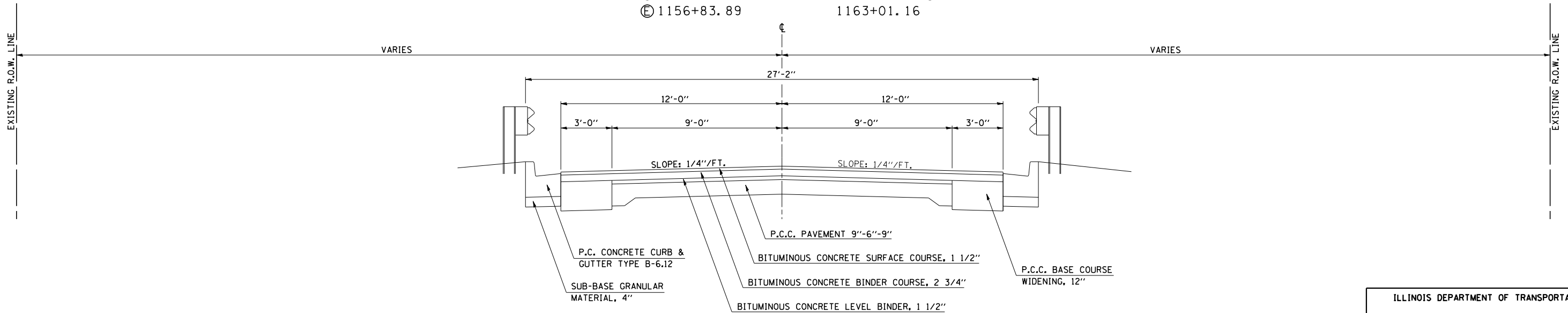
STATION	TO	STATION
Ⓐ 1142+62.63		1145+64.16 Ⓓ
Ⓓ 1163+01.16		1165+50.00



Ⓓ EXISTING TYPICAL CROSS SECTION

U.S. ROUTE 45

STATION	TO	STATION
Ⓒ 1145+64.16		1150+88.90 Ⓔ
Ⓔ 1156+83.89		1163+01.16



PLOT DATE = 7/10/2006
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 USER NAME = piersebr

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING TYPICAL CROSS SECTIONS
 F.A.S. 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: NOT TO SCALE
 DATE: 06/07/06

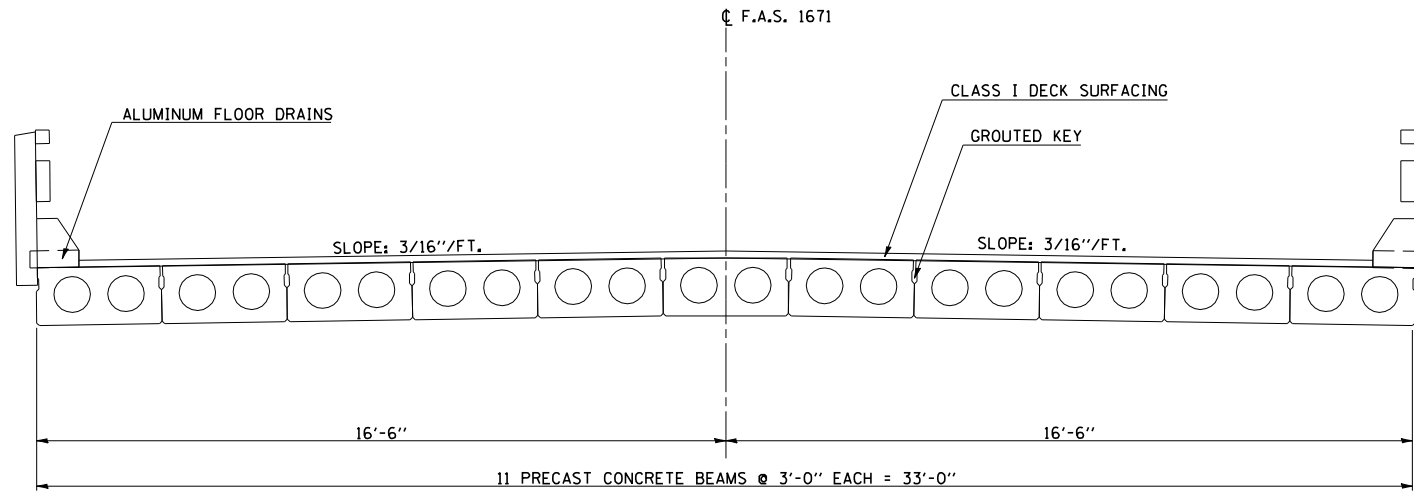
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 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 1445BR-2 & 22VBR-1				

(E) EXISTING TYPICAL CROSS SECTION

STRUCTURE NO. 021-0013

STATION TO STATION
 Ⓣ 1150+88.90 1156+83.89 Ⓣ



PLOT DATE = 7/10/2006
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 USER NAME = piersebr

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING TYPICAL CROSS SECTIONS
 F.A.S. 1671 (U.S. ROUTE 45)
 SECTION 1445BR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: NOT TO SCALE DRAWN BY: B.B.P.
 DATE: 06/07/06 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	13

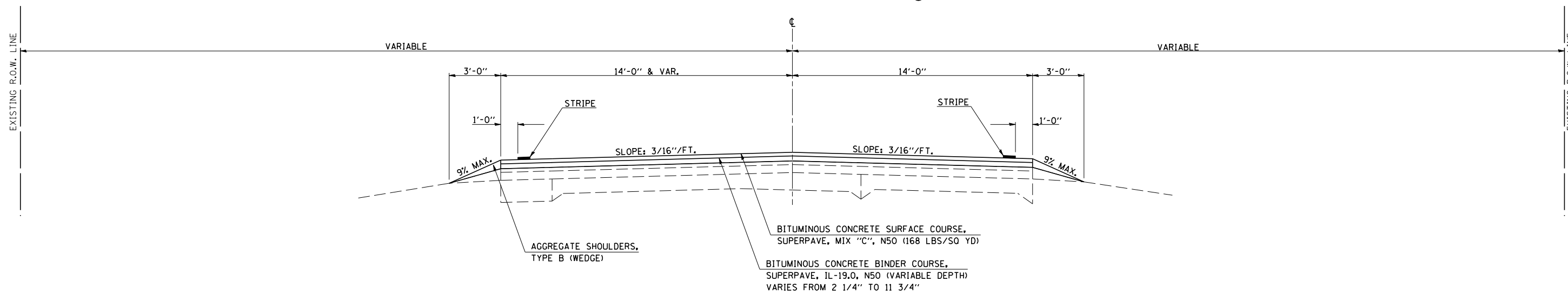
STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

• 144SBR-2 & 22VBR-1

1 PROPOSED TYPICAL CROSS SECTION

U.S. ROUTE 45

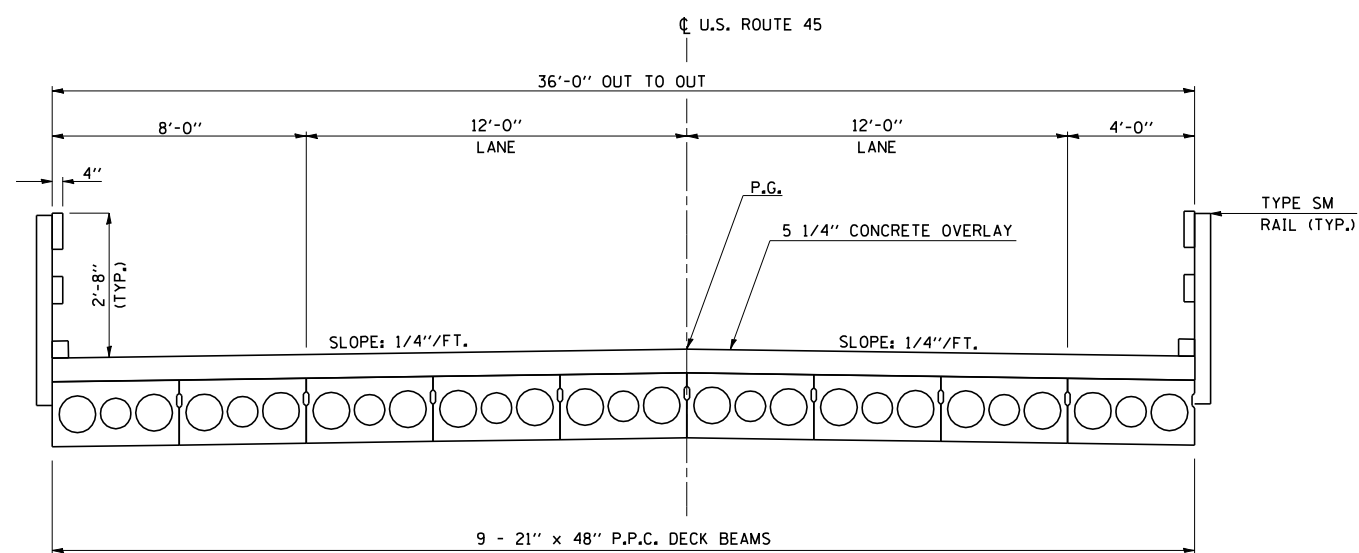
STATION TO STATION
 1124+40.00 TO 1129+90.93 BRIDGE APPROACH PAVEMENT
 BRIDGE APPROACH PAVEMENT 1131+54.93 TO 1141+40.00



2 PROPOSED TYPICAL CROSS SECTION

U.S. ROUTE 45 (STRUCTURE NO. 021-0062)

STATION TO STATION
 BRIDGE APPROACH PAVEMENT 1130+20.93 TO 1131+24.93 BRIDGE APPROACH PAVEMENT



ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TYPICAL CROSS SECTIONS
 F.A.S. 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: NOT TO SCALE
 DATE: 06/07/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

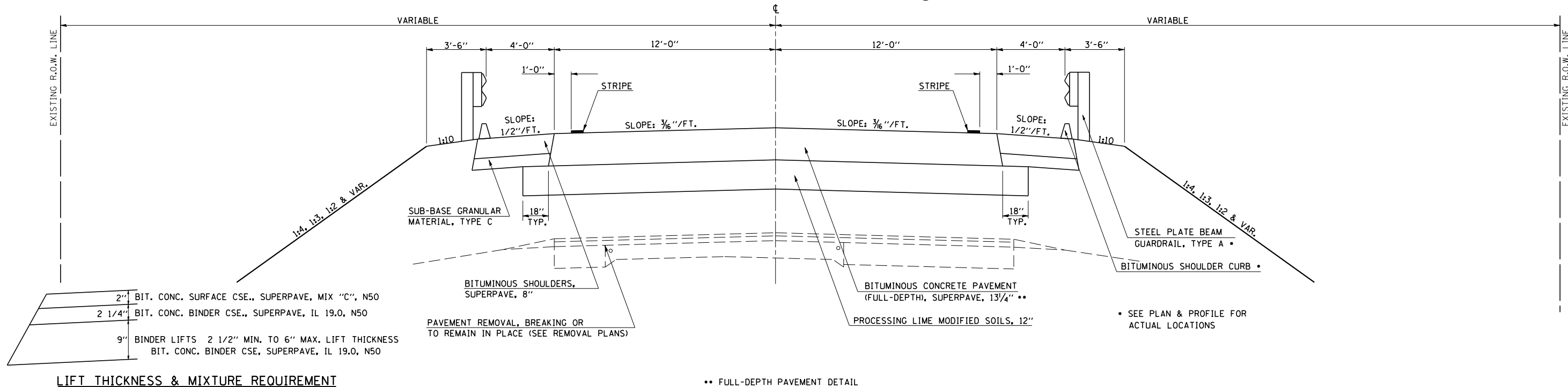
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1

3 PROPOSED TYPICAL CROSS SECTION

U.S. ROUTE 45

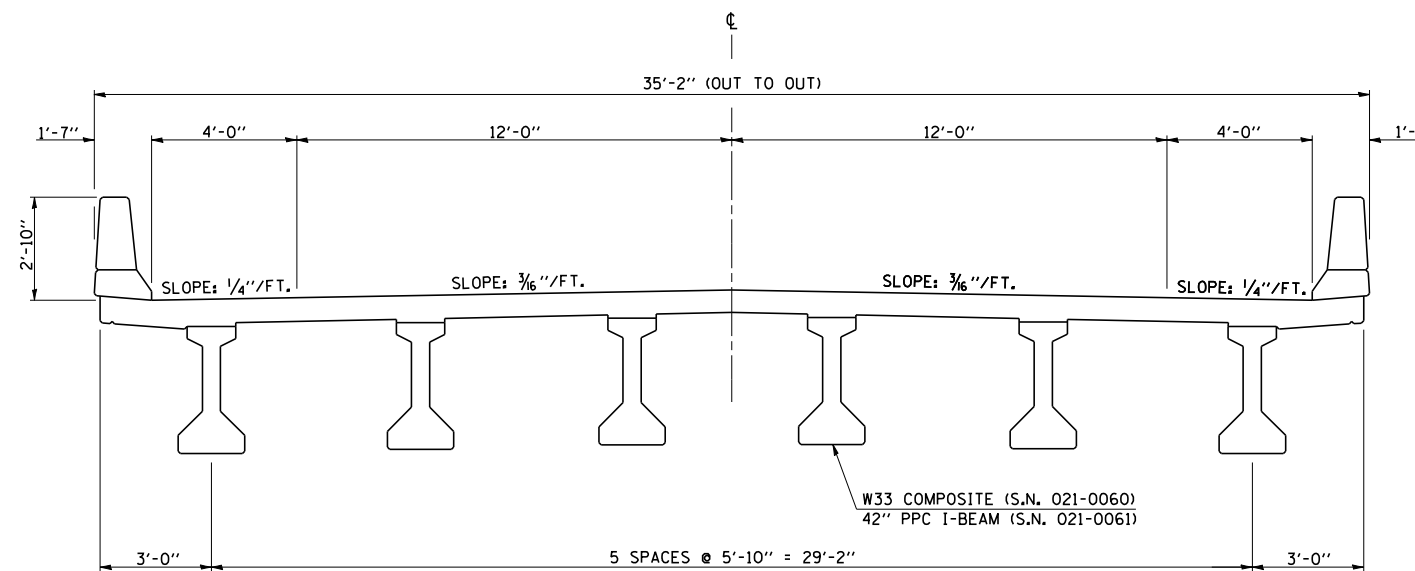
STATION TO STATION
 ① 1140+00.00 TO 1150+37.00 BRIDGE APPROACH PAVEMENT
 BRIDGE APPROACH PAVEMENT 1156+28.50 TO 1164+50.00 ⑥



4 PROPOSED TYPICAL CROSS SECTION

U.S. ROUTE 45

BRIDGE APPROACH PAVEMENT STATION 1150+67.00 TO STATION 1152+69.00 (SOUTH STRUCTURE NO. 021-0061) BRIDGE APPROACH PAVEMENT
 BRIDGE APPROACH PAVEMENT STATION 1154+06.50 TO STATION 1155+98.50 (NORTH STRUCTURE NO. 021-0060) BRIDGE APPROACH PAVEMENT



ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TYPICAL CROSS SECTIONS
 F.A.S. 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

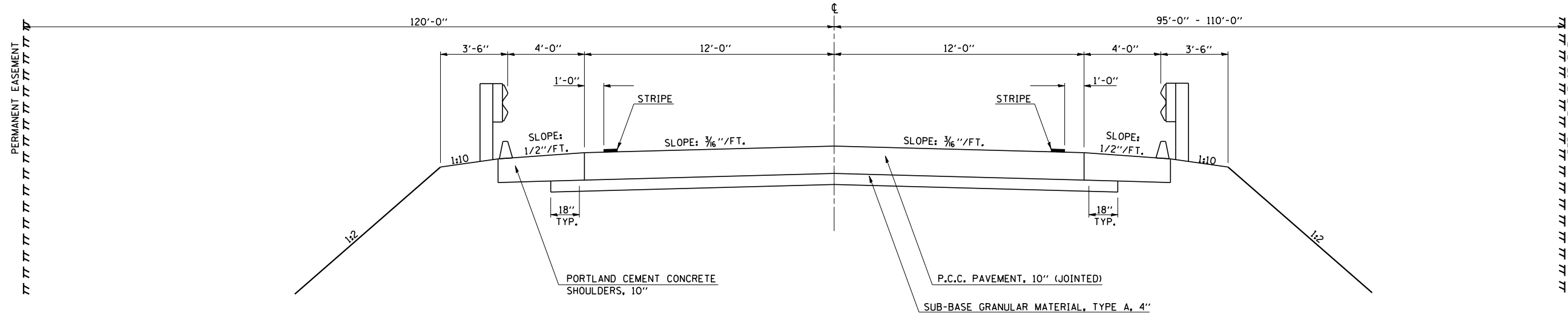
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 DATE: 06/07/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				

5 PROPOSED TYPICAL CROSS SECTION

U.S. ROUTE 45

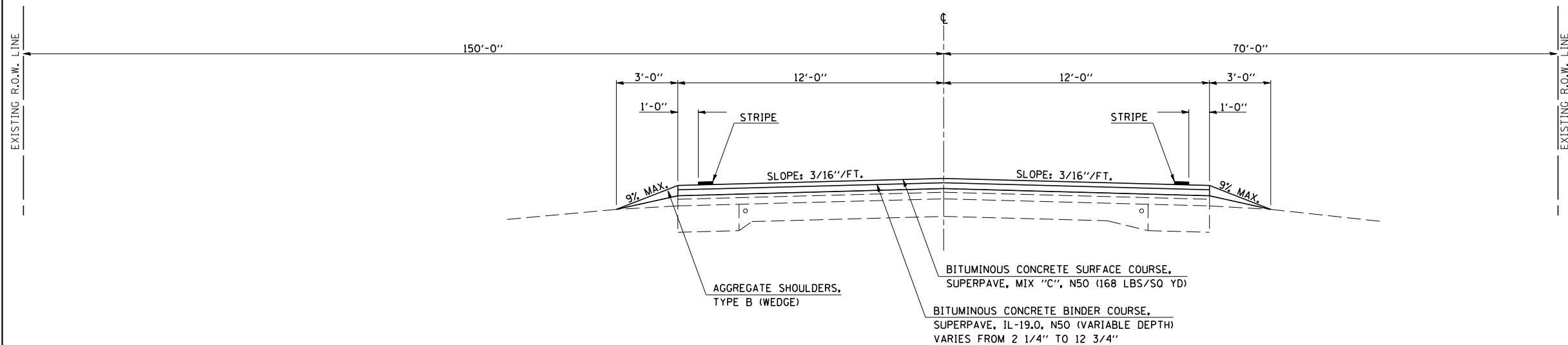
BRIDGE APPROACH PAVEMENT 1152+99.00 STATION TO STATION BRIDGE APPROACH PAVEMENT
1153+76.50



6 PROPOSED TYPICAL CROSS SECTION

U.S. ROUTE 45

STATION TO STATION
③ 1164+25.00 1165+50.00



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USER NAME = piersebr

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TYPICAL CROSS SECTIONS
F.A.S. 1671 (U.S. ROUTE 45)
SECTION 144SBR-2 & 22VBR-1
DOUGLAS COUNTY

SCALE: NOT TO SCALE DRAWN BY: B.B.P.
DATE: 06/07/06 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 1445BR-2 & 22VBR-1

SCHEDULE OF QUANTITIES

SHEET 2 OF 2

CATCH BASIN TYPE C W / TYPE 24 FRAME AND GRATE

STATION	QTY
1129+85 20' LT	1.0
1129+85 16' RT	1.0
1131+62 20' LT	1.0
1131+62 16' RT	1.0
1145+72 16' LT	1.0
1145+72 16' RT	1.0
1147+85 16' LT	1.0
1147+85 16' RT	1.0
1150+00 16' LT	1.0
1150+00 16' RT	1.0
1156+50 16' LT	1.0
1156+50 16' RT	1.0
1159+38 16' LT	1.0
1159+38 16' RT	1.0
1162+20 16' LT	1.0
1162+20 16' RT	1.0
TOTAL =	15.0

STONE RIPRAP, CLASS A3

STATION	SO YD
1145+72 65' LT	2.5
1145+72 48' RT	2.5
1147+85 70' LT	2.5
1147+85 58' RT	2.5
1150+00 70' LT	2.5
1150+00 57' RT	2.5
1156+50 72' LT	2.5
1156+50 66' RT	2.5
1159+38 57' LT	2.5
1159+38 56' RT	2.5
1162+20 45' LT	2.5
1162+20 45' RT	2.5
TOTAL =	27.5

CONCRETE THRUST BLOCKS

STATION	QTY
1145+72 65' LT	1.0
1145+72 48' RT	1.0
1147+85 70' LT	1.0
1147+85 58' RT	1.0
1150+00 70' LT	1.0
1150+00 57' RT	1.0
1156+50 72' LT	1.0
1156+50 66' RT	1.0
1159+38 57' LT	1.0
1159+38 56' RT	1.0
1162+20 45' LT	1.0
1162+20 45' RT	1.0
TOTAL =	11.0

END SECTIONS 12"

STATION	QTY
1145+72 65' LT	1.0
1145+72 48' RT	1.0
1147+85 70' LT	1.0
1147+85 58' RT	1.0
1150+00 70' LT	1.0
1150+00 57' RT	1.0
1156+50 72' LT	1.0
1156+50 66' RT	1.0
1159+38 57' LT	1.0
1159+38 56' RT	1.0
1162+20 45' LT	1.0
1162+20 45' RT	1.0
TOTAL =	11.0

CONCRETE COLLAR

STATION	CU YD
1130+20 RT	0.25
1131+35 RT	0.25
1146+00 LT	0.30
TOTAL =	0.80

EXPANSION BOLTS 3/4"

STATION	QTY
1146+00 LT	4.0

PIPE CULVERTS CLASS A TYPE 2 15"

STATION	FT
1154+53.02 LT, RT	177.0
1146+00.50 LT	40.0
TOTAL =	217.0

C-I-P REINFORCED CONCRETE END SECTIONS 15"

STATION	QTY
1154+53.02 LT, RT	2.0
1146+00.50 LT	1.0
TOTAL =	3.0

CONCRETE GUTTER TYPE B

STATION	STATION	FT
1144+76.00 RT	1145+16.00 R	40.0
1145+65.41 LT	1146+10.00 L	44.6
1159+06.25 RT	1159+38.00 R	31.8
1162+24.00 LT	1162+38.55 L	14.6
QUANTITY =		131.0

CLASS SJ CONCRETE (OUTLET)

STATION	STATION	CU YD
1144+18.72 RT	1144+76.00 R	3.9
1145+08.00 LT	1145+65.41 L	3.9
1159+38.00 RT	1160+01.28 R	4.3
1162+38.55 LT	1162+82.55 L	4.5
1162+82.55 LT	1163+52.28 L	4.7
TOTAL =		21.3

BITUMINOUS SHOULDER CURB

STATION	STATION	FT
1146+10 LT	1150+46 LT	436.0
1145+15 RT	1150+28 RT	512.0
1156+25 LT	1162+24 LT	599.0
1156+32 RT	1159+06 RT	274.0
1129+80 LT	1129+90 LT	10.0
1129+80 RT	1129+93 RT	13.0
1131+53 LT	1131+68 LT	15.0
1131+57 RT	1131+66 RT	9.0
TOTAL =		1868.0

CONCRETE SHOULDER CURB

STATION	STATION	FT
1153+08 LT	1153+73 LT	65.0
1152+90 RT	1153+80 RT	90.0
TOTAL =		155.0

PIPE DRAINS 12"

STATION	STATION	FT
1129+85 LT, RT		36.0
1129+85 RT	1130+18 RT	33.5
1131+62 LT, RT		36.0
1131+34 RT	1131+62 RT	28.5
1145+72 16' LT	1145+72 65' L	55.0
1145+72 16' RT	1145+72 48' R	36.0
1147+70 16' LT	1147+70 70' L	60.0
1147+70 16' RT	1147+70 58' R	47.0
1150+00 16' LT	1150+00 70' L	60.0
1150+00 16' RT	1150+00 57' R	46.0
1156+50 16' LT	1156+50 72' L	63.0
1156+50 16' RT	1156+50 66' R	56.0
1159+38 16' LT	1159+38 57' L	44.0
1159+38 16' RT	1159+38 56' R	44.0
1162+20 16' LT	1162+20 45' L	30.0
TOTAL =		675.0

THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS

STATION	SO FT
1126+80 LT	15.6
1127+60 LT	15.6
1134+90 LT	15.6
1135+60 LT	15.6
1136+60 LT	15.6
TOTAL =	78.0 (WHITE)

THERMOPLASTIC PAVEMENT MARKING LINE - 4"

STATION	STATION	FT
1124+40	1129+91	1210.0 YELLOW
1124+40	1129+91	1339.0 WHITE
1131+55	1136+50	1204.0 YELLOW
1131+55	1136+50	1161.0 WHITE
TOTAL WHITE		2500.0
TOTAL YELLOW		2414.0
TOTAL =		4914.0

THERMOPLASTIC PAVEMENT MARKING - LINE 12"

LOCATION	FT
SOUTH RAMP	60.0 WHITE
SOUTH RAMP	12.0 YELLOW
NORTH RAMP	60.0 WHITE
NORTH RAMP	23.0 YELLOW
TOTAL WHITE	120.0
TOTAL YELLOW	35.0
TOTAL =	155.0

THERMOPLASTIC PAVEMENT MARKING - LINE 24"

LOCATION	FT
STOP BARS	62.0 WHITE

PAINT PAVEMENT MARKING - LINE 4"

STATION	STATION	FT
1136+50	1150+37	2774.0 YELLOW
1136+50	1150+37	2774.0 WHITE
1156+28.5	1164+00	772.0 YELLOW
1156+28.5	1164+00	240.0 YELLOW
1156+28.5	1164+00	1843.0 WHITE
TOTAL WHITE		4617.0
TOTAL YELLOW		3786.0
TOTAL =		8403.0

POLYUREA PAVEMENT MARKING TYPE II - LINE 4"

STATION	STATION	FT	STRUCTURE	
1129+90.93	1131+54.93	328.0	021-0062	YELLOW
1129+90.93	1131+54.93	328.0	021-0062	WHITE
1150+37.00	1153+37.00	600.0	021-0061	YELLOW
1150+37.00	1153+37.00	600.0	021-0061	WHITE
1153+37.00	1156+28.50	465.0	021-0060	YELLOW
1153+37.00	1156+28.50	583.0	021-0060	WHITE
TOTAL WHITE		1511.0		
TOTAL YELLOW		1393.0		
TOTAL =		2904.0		

RAISED REFLECTIVE PAVEMENT MARKER

AMBER BI-DIRECTIONAL	45.0 EACH
CRYSTAL MONODIRECTIONAL	9.0 EACH
TOTAL =	54.0 EACH

RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

AMBER BI-DIRECTIONAL	9.0 EACH
----------------------	----------

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 1445BR-2 & 22VBR-1
 DOUGLAS COUNTY
 Sheet 2 of 2

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				

EARTHWORK SUMMARY

LOCATION	EARTH EXCAVATION	EXCAVATION TO BE USED AS EMBANKMENT ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE
	CU YD	CU YD	CU YD	CU YD
1124+40.00 to 1130+20.93	0.5	0.4	10.1	-9.7
1130+96.93 to 1151+34.00	810.9	608.2	26078.9	-25470.7
1152+02.00 to 1154+65.00	0.0	0.0	25243.0	-25243.0
1155+49.00 to 1165+50.00	55.5	41.6	15561.6	-15520.0
TOTALS =	866.9	650.2	66893.6	-66243.4

SHRINKAGE FACTOR (SF) = 25%

BORROW = $66243.4 / .75 = 88330$ Cu Yd

PLOT DATE = 7/13/2006
 FILE NAME = c:\projects\0505202 (v8)\70258\text1.dgn
 PLOT DATE = 02/25/23 / IN.
 USER NAME = pier.sombi

ILLINOIS DEPARTMENT OF TRANSPORTATION

EARTHWORK SUMMARY

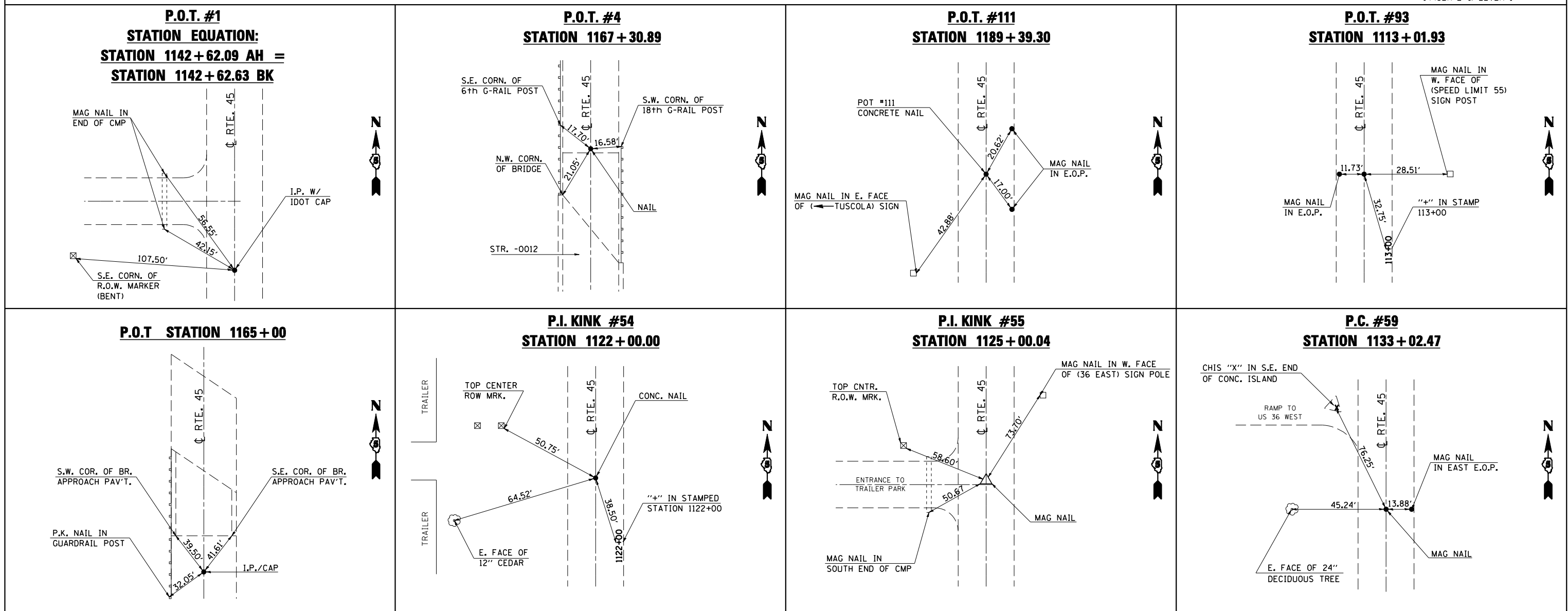
F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: NOT TO SCALE
 DATE: 07/06/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				

TIE POINTS



BENCHMARKS

- B.M. 4660-1** CHISELED SQUARE
 ON TOP OF S.E. WINGWALL OF BRIDGE.
 STATION 1150+88.42, 17.10' RT., ELEVATION 674.665
- B.M. 4660-2** CHISELED SQUARE
 ON TOP OF N.E. WINGWALL OF BRIDGE.
 STATION 1156+83.92, 17.02' RT., ELEVATION 680.865

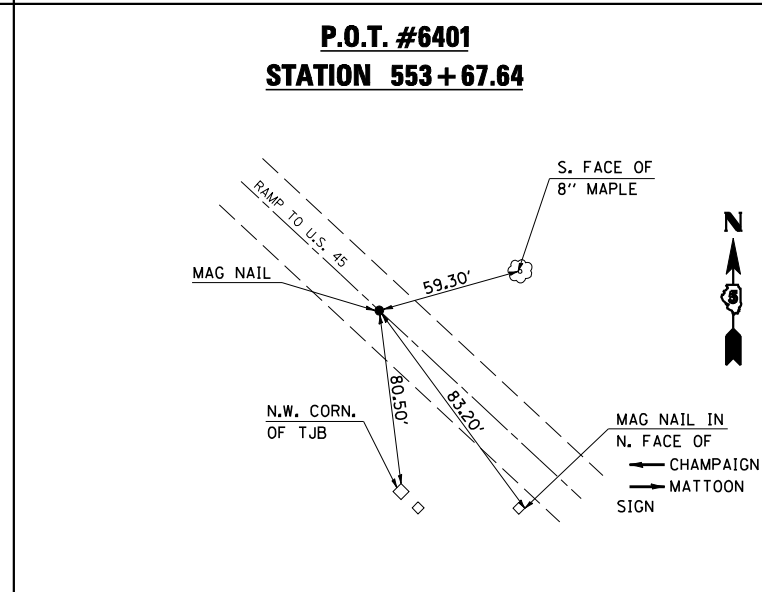
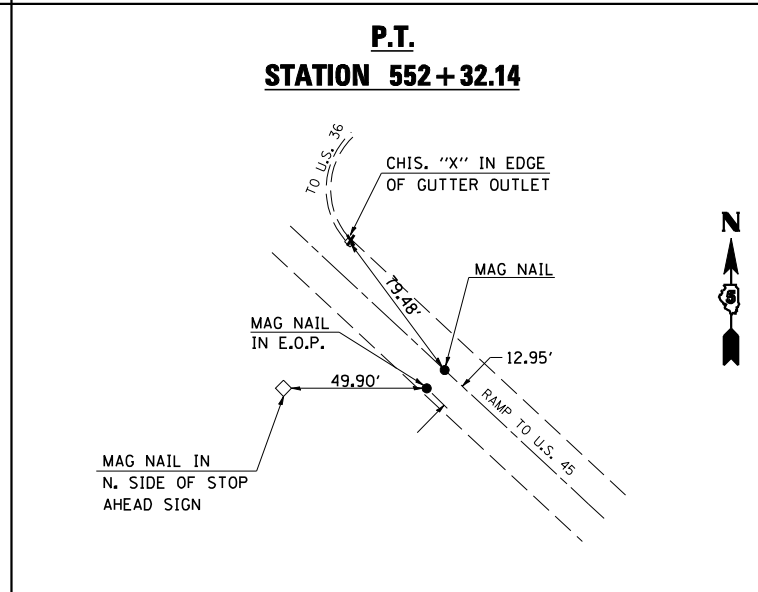
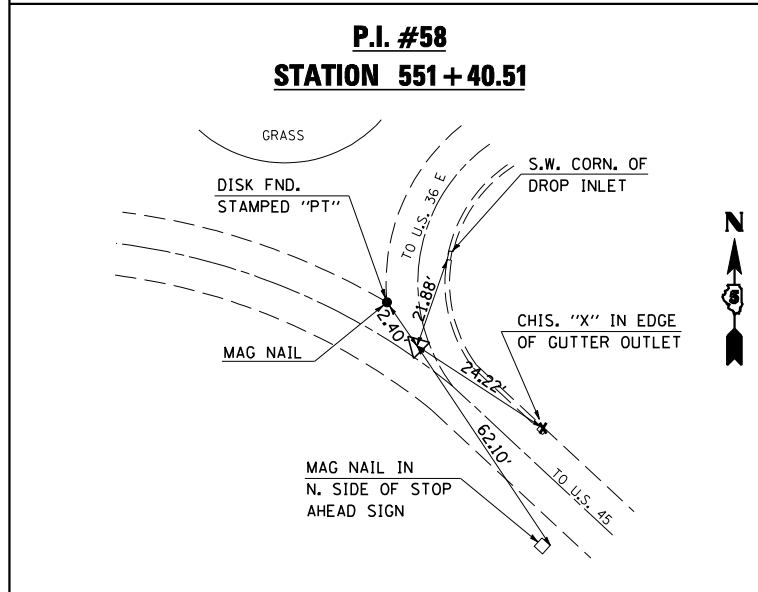
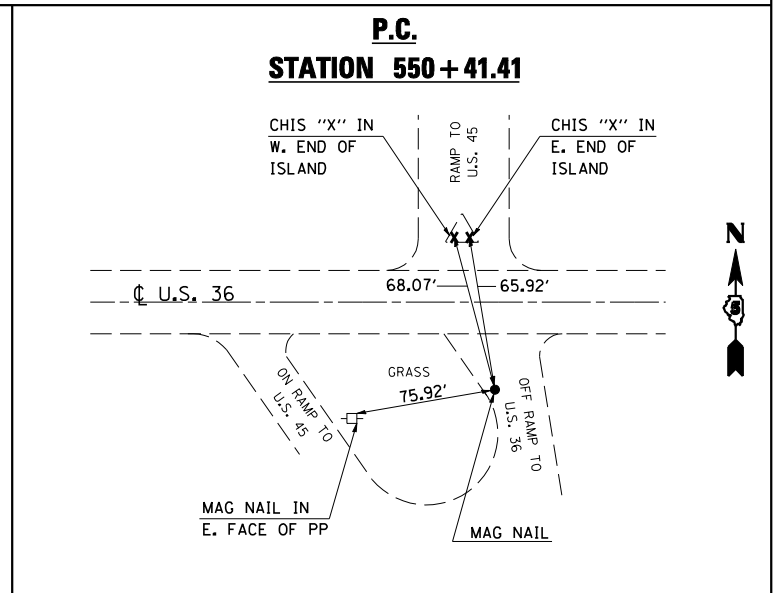
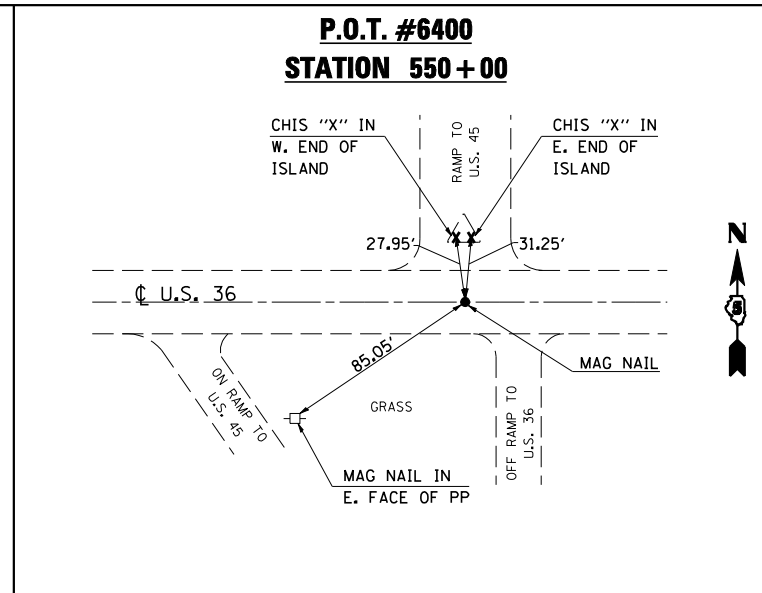
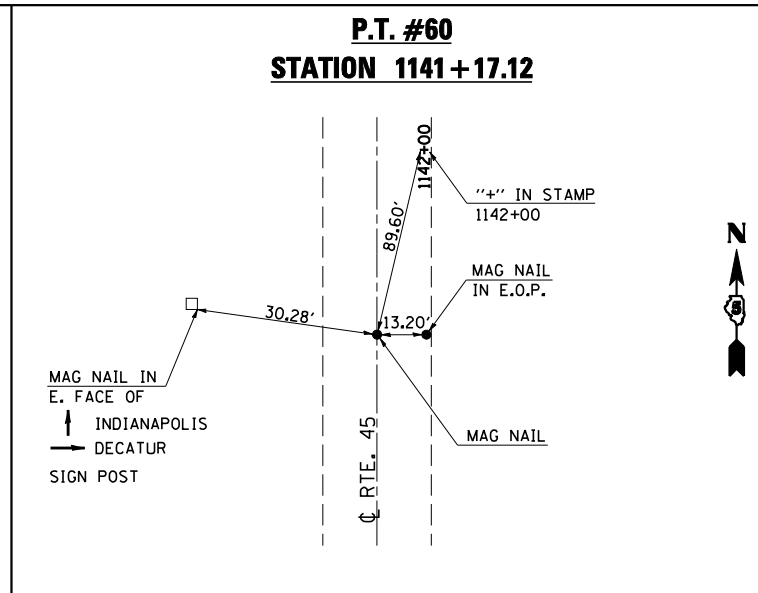
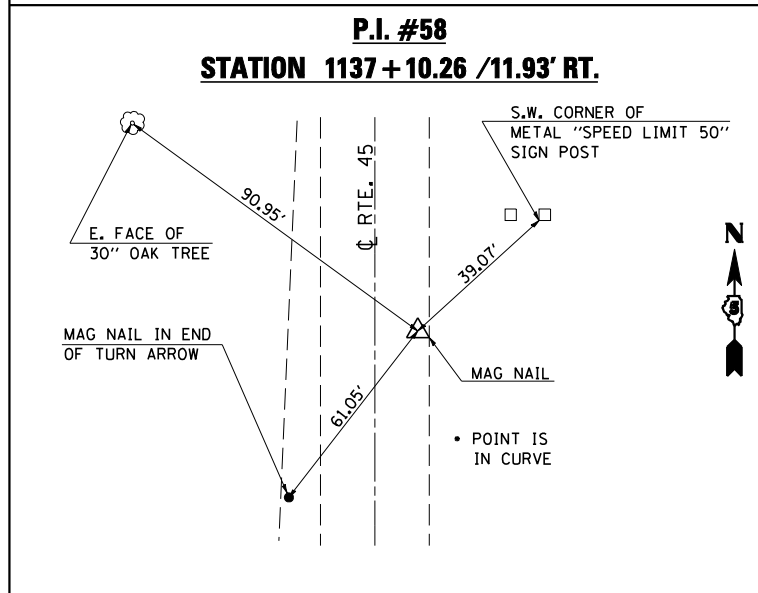
ILLINOIS DEPARTMENT OF TRANSPORTATION
TIE POINTS & BENCHMARKS
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY
Sheet 1 of 2

SCALE: NOT TO SCALE
 DATE: 06/09/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\144SBR-2\144SBR-2.dgn
 USER = pier_sonbr

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				

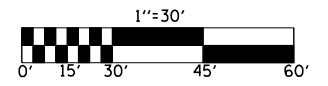
TIE POINTS



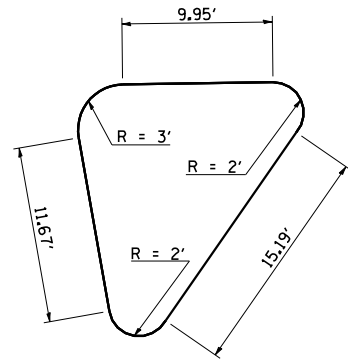
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 USER = pier sonbr

ILLINOIS DEPARTMENT OF TRANSPORTATION
TIE POINTS & BENCHMARKS
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY
Sheet 2 of 2
 SCALE: NOT TO SCALE
 DATE: 06/09/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

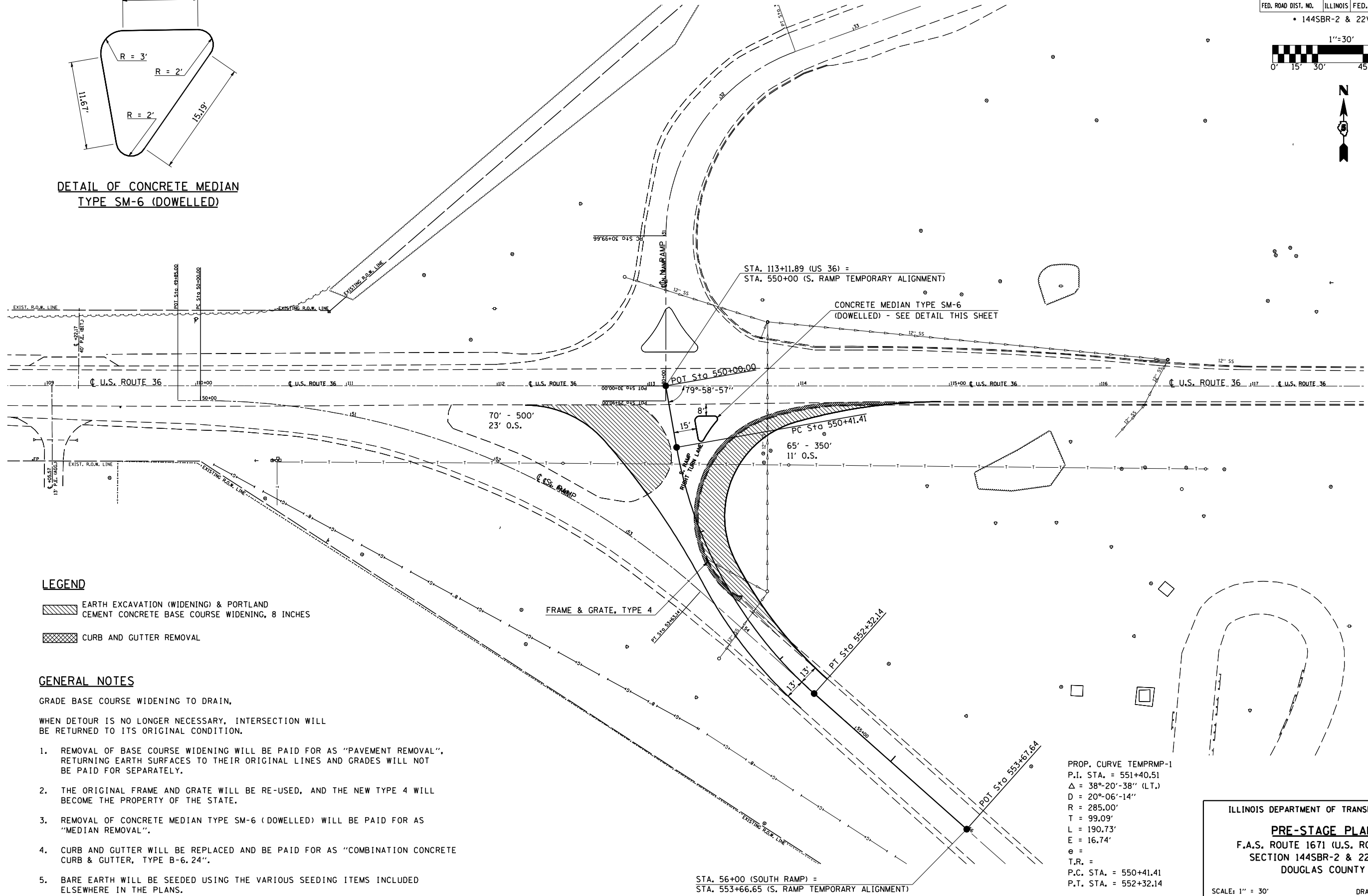
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				



PRE-STAGE PLAN



**DETAIL OF CONCRETE MEDIAN
TYPE SM-6 (DOWELLED)**



LEGEND

- EARTH EXCAVATION (WIDENING) & PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8 INCHES
- CURB AND GUTTER REMOVAL

GENERAL NOTES

- GRADE BASE COURSE WIDENING TO DRAIN,
WHEN DETOUR IS NO LONGER NECESSARY, INTERSECTION WILL BE RETURNED TO ITS ORIGINAL CONDITION.
1. REMOVAL OF BASE COURSE WIDENING WILL BE PAID FOR AS "PAVEMENT REMOVAL". RETURNING EARTH SURFACES TO THEIR ORIGINAL LINES AND GRADES WILL NOT BE PAID FOR SEPARATELY.
 2. THE ORIGINAL FRAME AND GRATE WILL BE RE-USED, AND THE NEW TYPE 4 WILL BECOME THE PROPERTY OF THE STATE.
 3. REMOVAL OF CONCRETE MEDIAN TYPE SM-6 (DOWELLED) WILL BE PAID FOR AS "MEDIAN REMOVAL".
 4. CURB AND GUTTER WILL BE REPLACED AND BE PAID FOR AS "COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24".
 5. BARE EARTH WILL BE SEEDING USING THE VARIOUS SEEDING ITEMS INCLUDED ELSEWHERE IN THE PLANS.

PROP. CURVE TEMPRMP-1
 P.I. STA. = 551+40.51
 $\Delta = 38^{\circ}20'38''$ (LT.)
 $D = 20^{\circ}06'14''$
 $R = 285.00'$
 $T = 99.09'$
 $L = 190.73'$
 $E = 16.74'$
 $e =$
 $T.R. =$
 P.C. STA. = 550+41.41
 P.T. STA. = 552+32.14

ILLINOIS DEPARTMENT OF TRANSPORTATION

PRE-STAGE PLAN

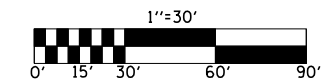
F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 30'
 DATE: 06/14/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

PLOT DATE = 7/10/2006
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 PLOT SCALE = 63.5294 / IN.
 USER NAME = piersebr

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				



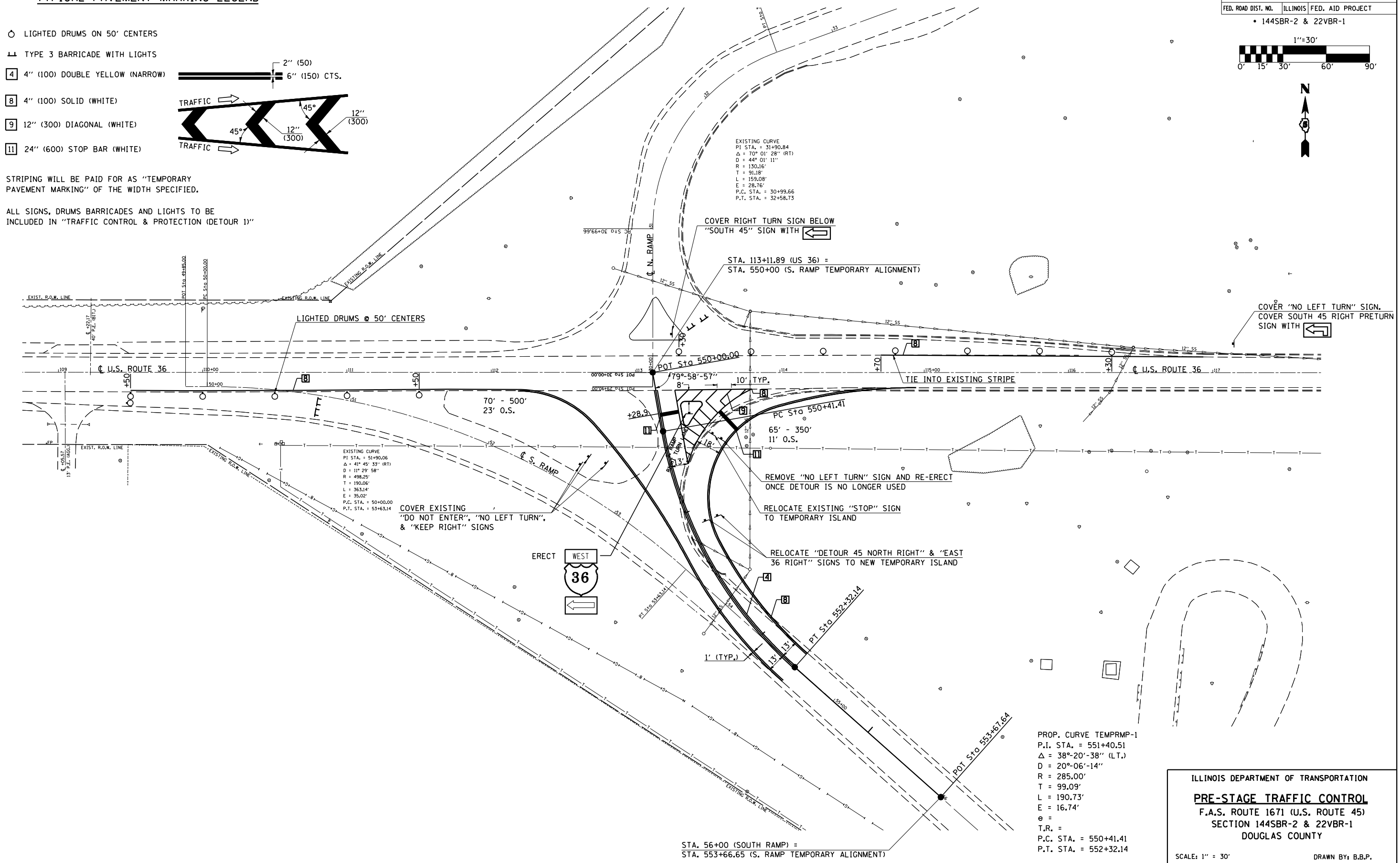
TYPICAL PAVEMENT MARKING LEGEND

- LIGHTED DRUMS ON 50' CENTERS
 - ⊥ TYPE 3 BARRICADE WITH LIGHTS
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
-

STRIPING WILL BE PAID FOR AS "TEMPORARY PAVEMENT MARKING" OF THE WIDTH SPECIFIED.

ALL SIGNS, DRUMS BARRICADES AND LIGHTS TO BE INCLUDED IN "TRAFFIC CONTROL & PROTECTION (DETOUR 1)"

PRE-STAGE TRAFFIC CONTROL



PROP. CURVE TEMPRMP-1
 P.I. STA. = 551+40.51
 $\Delta = 38^{\circ}20'38''$ (L.T.)
 $D = 20^{\circ}06'14''$
 $R = 285.00'$
 $T = 99.09'$
 $L = 190.73'$
 $E = 16.74'$
 $e =$
 $T.R. =$
 P.C. STA. = 550+41.41
 P.T. STA. = 552+32.14

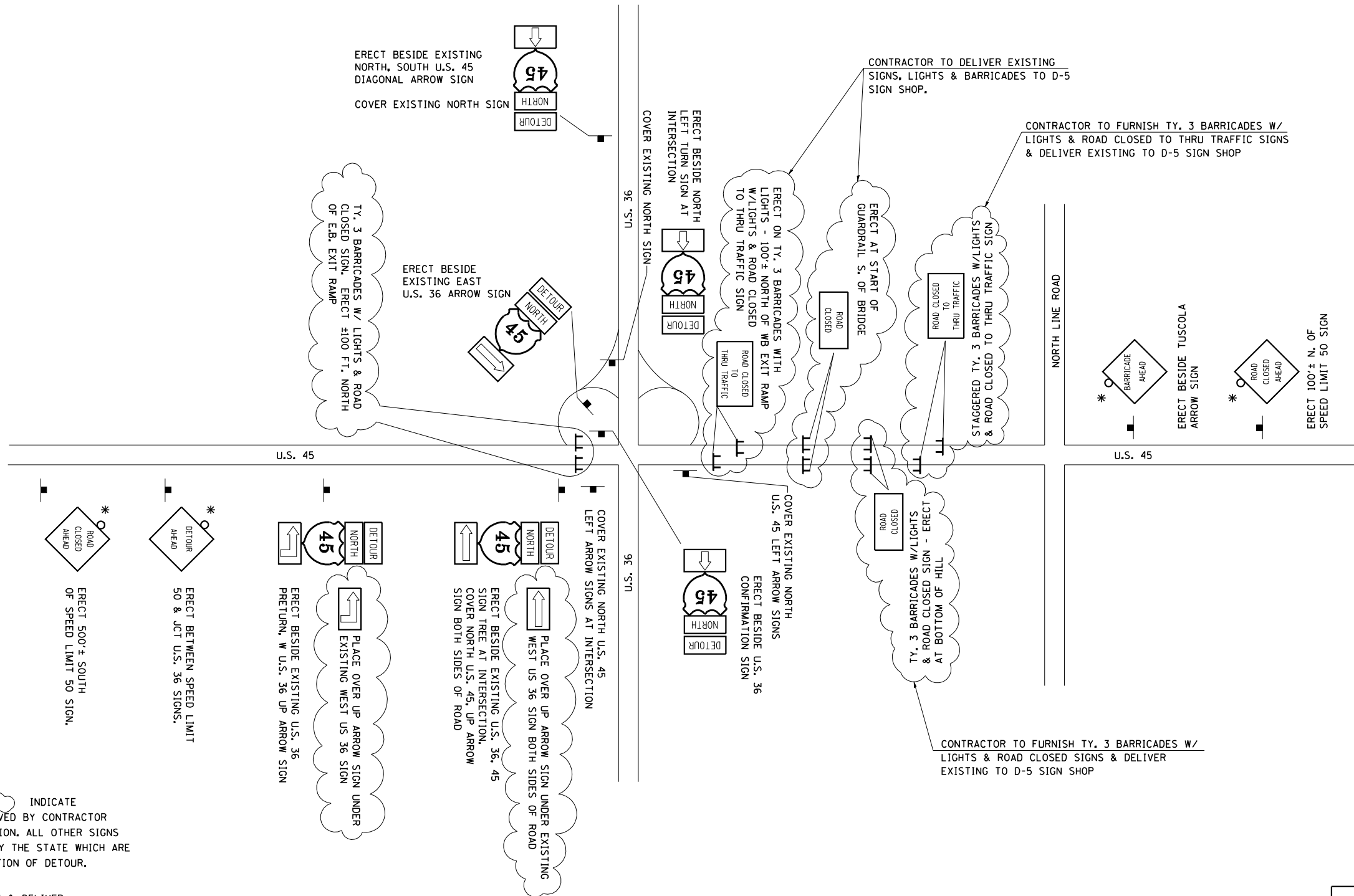
ILLINOIS DEPARTMENT OF TRANSPORTATION
PRE-STAGE TRAFFIC CONTROL
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 30'
 DATE: 06/14/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

PLOT DATE = 7/10/2006
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 PLOT SCALE = 63.5294 / IN.
 USER NAME = piersebr

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



ITEMS DENOTED BY INDICATE SIGNS TO BE ERECTED OR REMOVED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION. ALL OTHER SIGNS ARE EXISTING SIGNS ERECTED BY THE STATE WHICH ARE TO REMAIN IN PLACE FOR DURATION OF DETOUR.

* CONTRACTOR TO FURNISH LIGHTS & DELIVER EXISTING LIGHTS TO D-5 SIGN SHOP.

THIS WORK TO BE PAID FOR AS:
"TRAFFIC CONTROL & PROTECTION (DETOUR)"

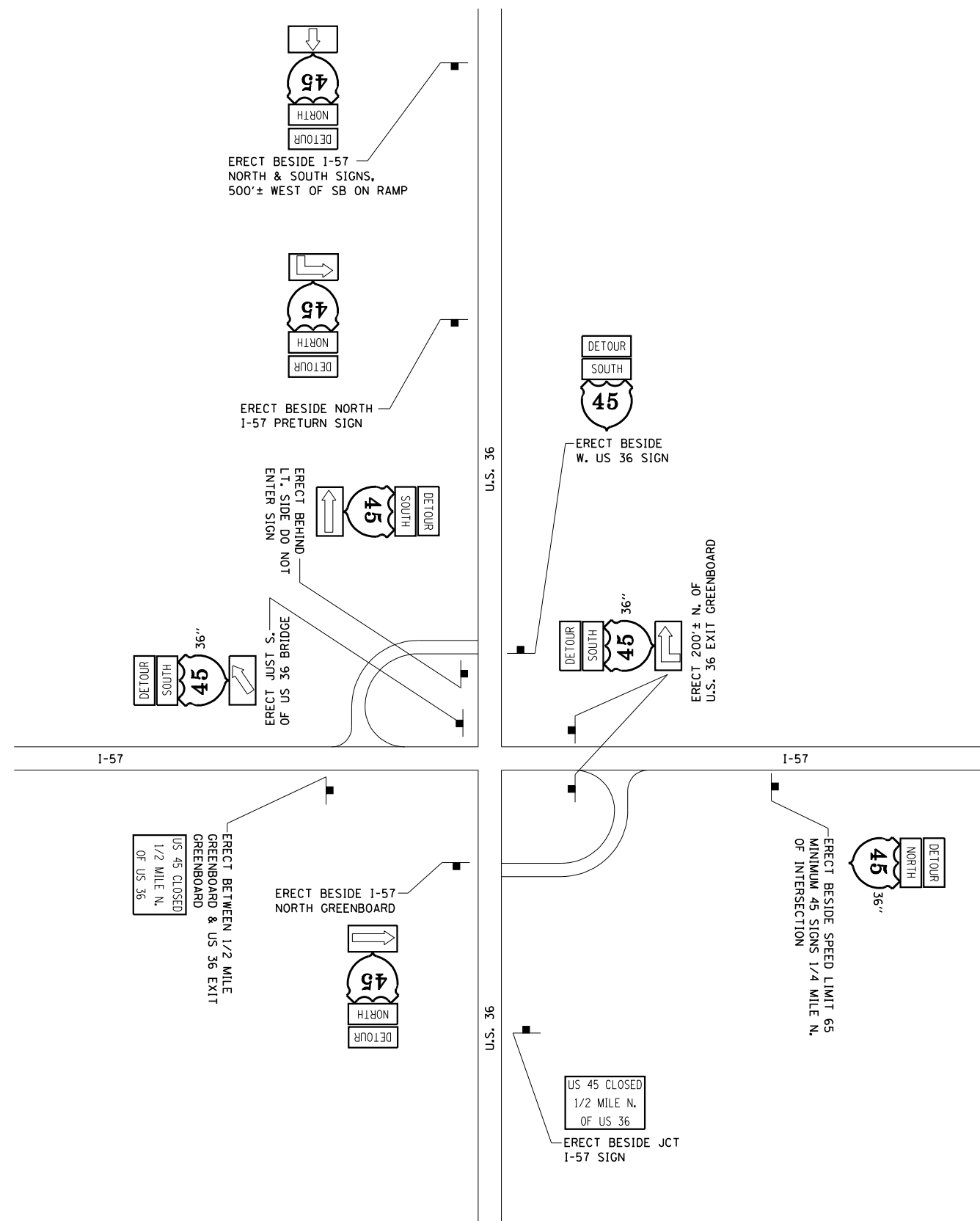
FOR OTHER SIGNS ON U.S. 36, SEE PRE-STAGE PLANS.


ILLINOIS DEPARTMENT OF TRANSPORTATION
DETOUR SIGNING DETAIL
U.S. 45 AT U.S. 36 - TUSCOLA
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY
 SCALE: NOT TO SCALE DRAWN BY: B.B.P.
 DATE: 06/05/06 CHECKED BY: C.R.G.

PLOT DATE = 7/10/2006
 FILE NAME = G:\projects\144SBR-2\1671\70258det\ollis.dgn
 USER NAME = pier_sombir

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



ITEMS DENOTED BY  INDICATE SIGNS TO BE ERECTED OR REMOVED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION. ALL OTHER SIGNS ARE EXISTING SIGNS ERECTED BY THE STATE WHICH ARE TO REMAIN IN PLACE FOR DURATION OF DETOUR.

THIS WORK TO BE PAID FOR AS:
"TRAFFIC CONTROL & PROTECTION (DETOUR)"

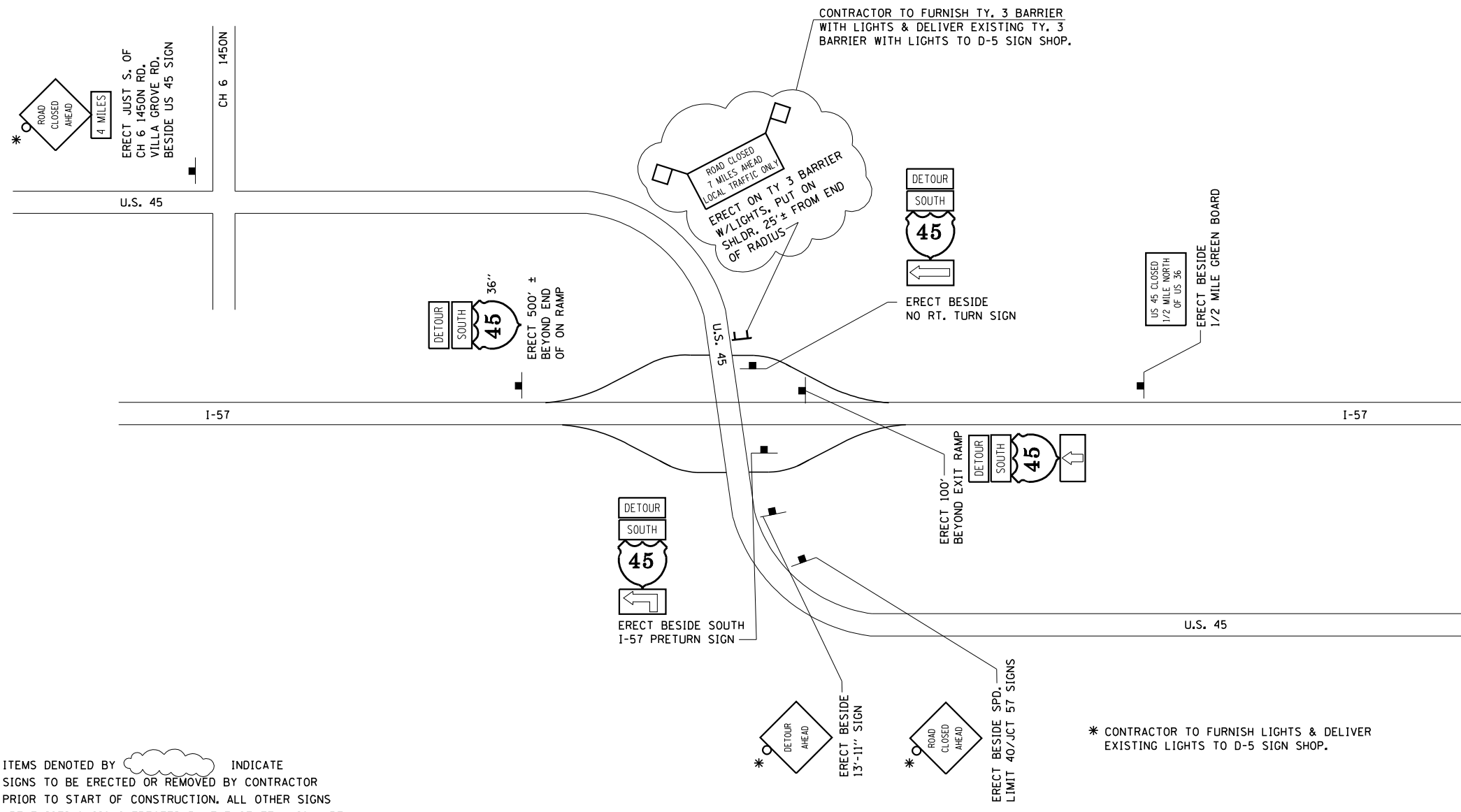
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 USER NAME = pier.sombir

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETOUR SIGNING DETAIL
U.S. 36 AT F.A.R. 57 - TUSCOLA
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: NOT TO SCALE
 DATE: 06/05/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



ITEMS DENOTED BY INDICATE SIGNS TO BE ERECTED OR REMOVED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION. ALL OTHER SIGNS ARE EXISTING SIGNS ERECTED BY THE STATE WHICH ARE TO REMAIN IN PLACE FOR DURATION OF DETOUR.

THIS WORK TO PAID FOR AS:
"TRAFFIC CONTROL & PROTECTION (DETOUR)"

* CONTRACTOR TO FURNISH LIGHTS & DELIVER EXISTING LIGHTS TO D-5 SIGN SHOP.

PLOT DATE = 7/10/2006
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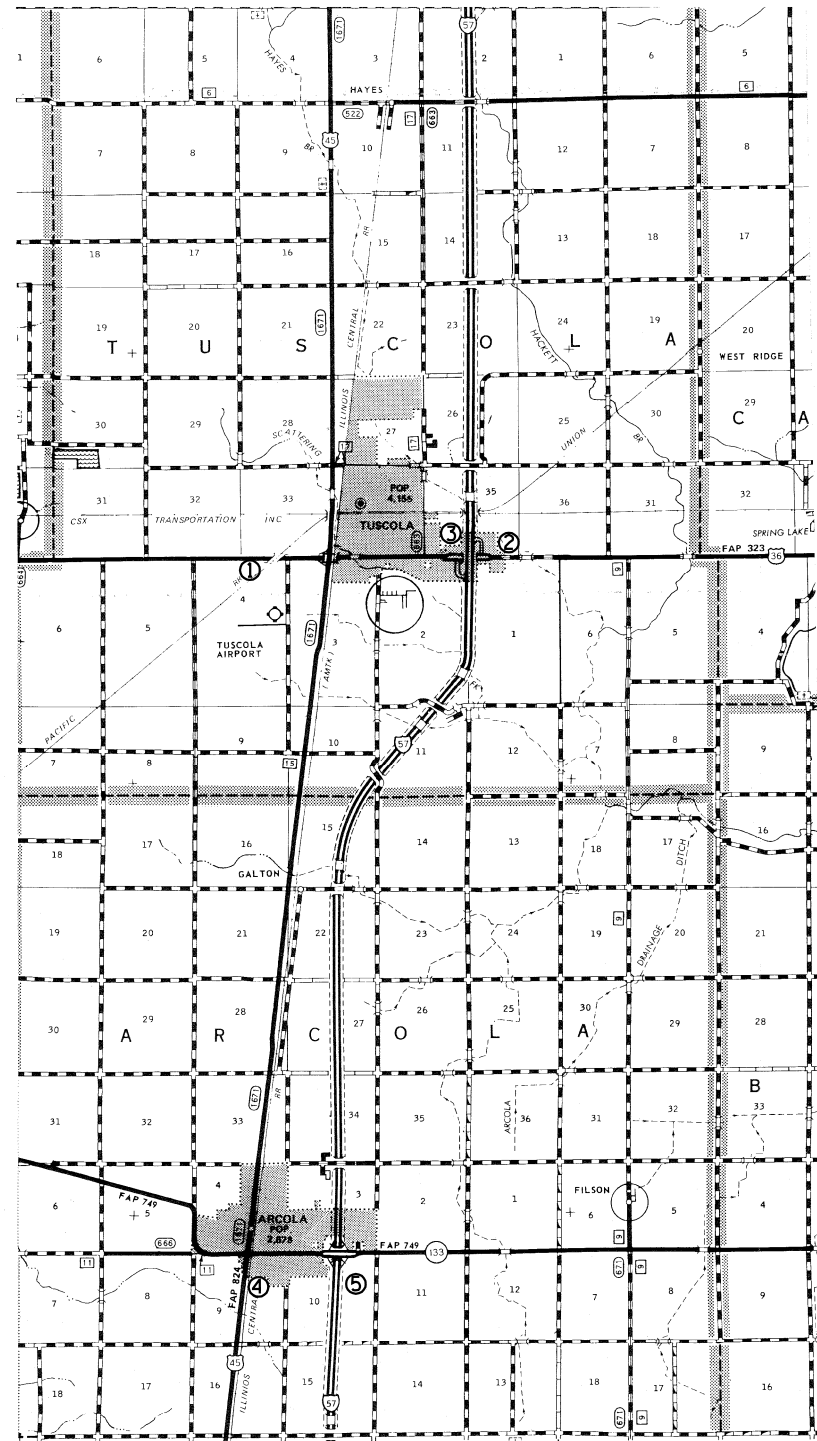
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETOUR SIGNING DETAIL
U.S. 45 AT F.A.I. 57 - PESOTUM
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

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

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				

SPECIAL DETAIL FOR TRAFFIC CONTROL & PROTECTION FOR TEMPORARY DETOUR



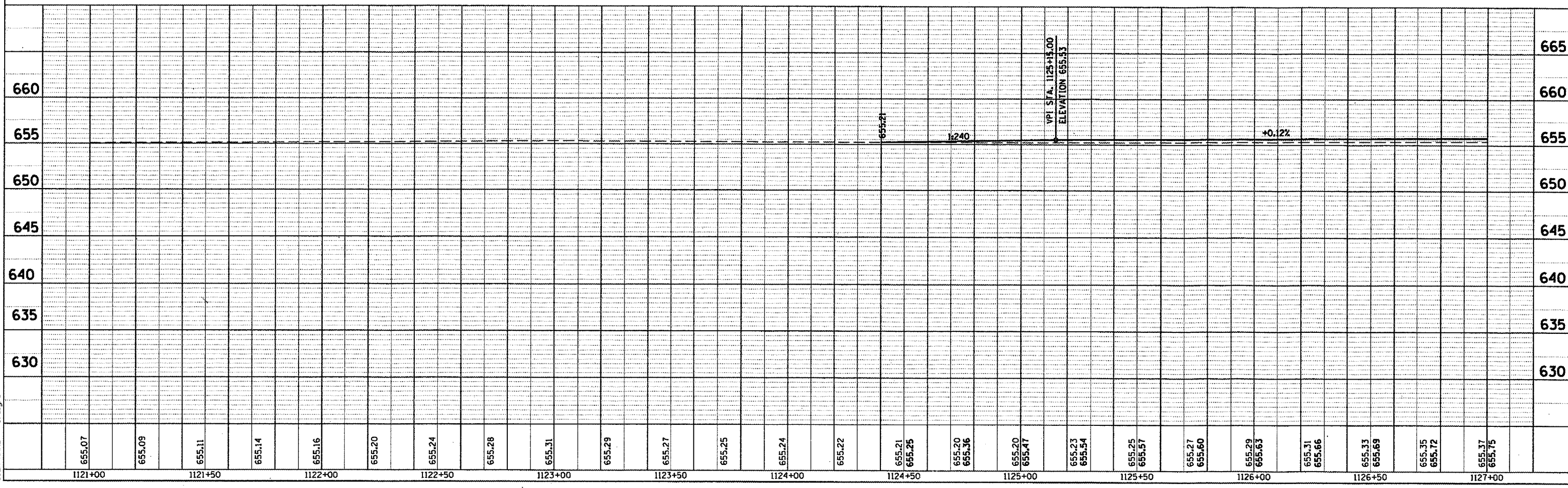
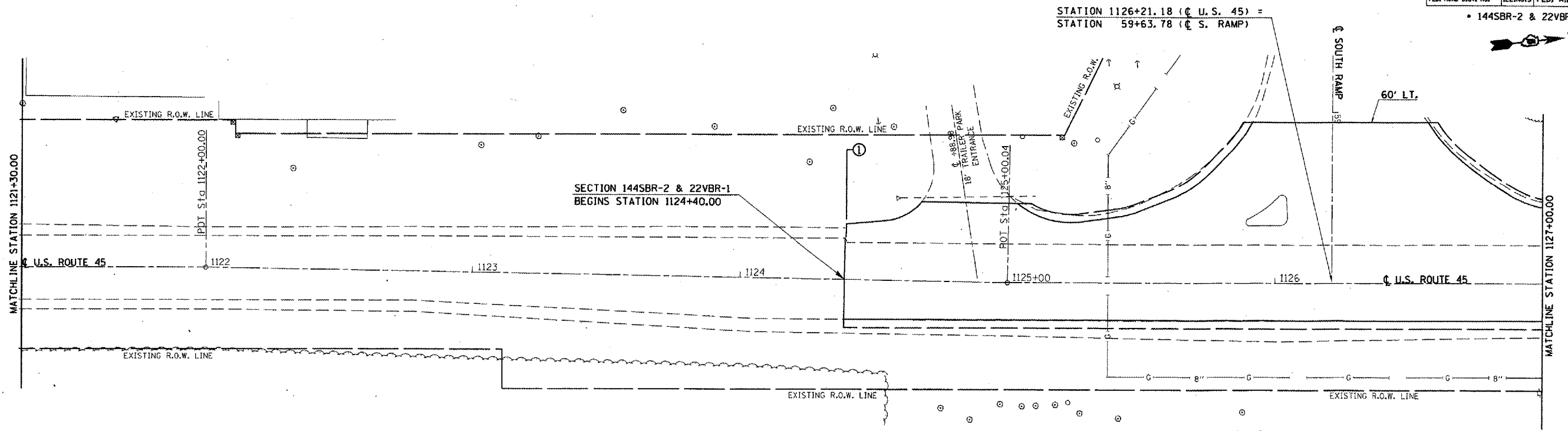
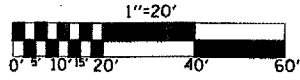
MESSAGE BOARD NO.	PLACEMENT OF MESSAGE BOARDS	SUGGESTED ORDER OF MESSAGES	
1	E. B. ON U. S. 36 APPROX. 1000 FT. WEST OF UPRR SUBWAY	U. S. 36 CLOSED AHEAD	11:00 PM TO 5:00 AM
2	W. B. ON U. S. 36 APPROX. 1/4 MILE EAST OF I-57	U. S. 36 CLOSED 1 1/2 MILES	11:00 PM TO 5:00 AM
3	S. B. ON I-57 APPROX. 1/4 MILE NORTH OF TUSCOLA OFF RAMP	WEST U. S. 36 CLOSED AT U. S. 45	11:00 PM TO 5:00 AM
4	N. B. ON U. S. 45 JUST SOUTH OF IL 133 INTERSECTION	U. S. 36 CLOSED UNDER U. S. 45	11:00 PM TO 5:00 AM
5	N. B. ON I-57 APPROX. 1/4 MILE SOUTH OF IL 133 INTERSECTION	U. S. 36 CLOSED UNDER U. S. 45	11:00 PM TO 5:00 AM

PLOT DATE = 7/10/2006
 FILE NAME = G:\projects\0505202 (v8)\70258det\tdlls.dgn
 USER NAME = pier.sombir

ILLINOIS DEPARTMENT OF TRANSPORTATION
**SPECIAL DETAIL FOR TRAFFIC CONTROL
& PROTECTION FOR TEMP. DETOUR**
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY
 SCALE: NOT TO SCALE
 DATE: 06/19/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	27
STA. 1121+00		TO STA. 1127+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* 1445BR-2 & 22VBR-1

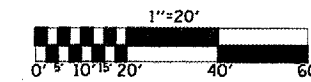


PLAN	REVISION	DATE

PROFILE	REVISION	DATE

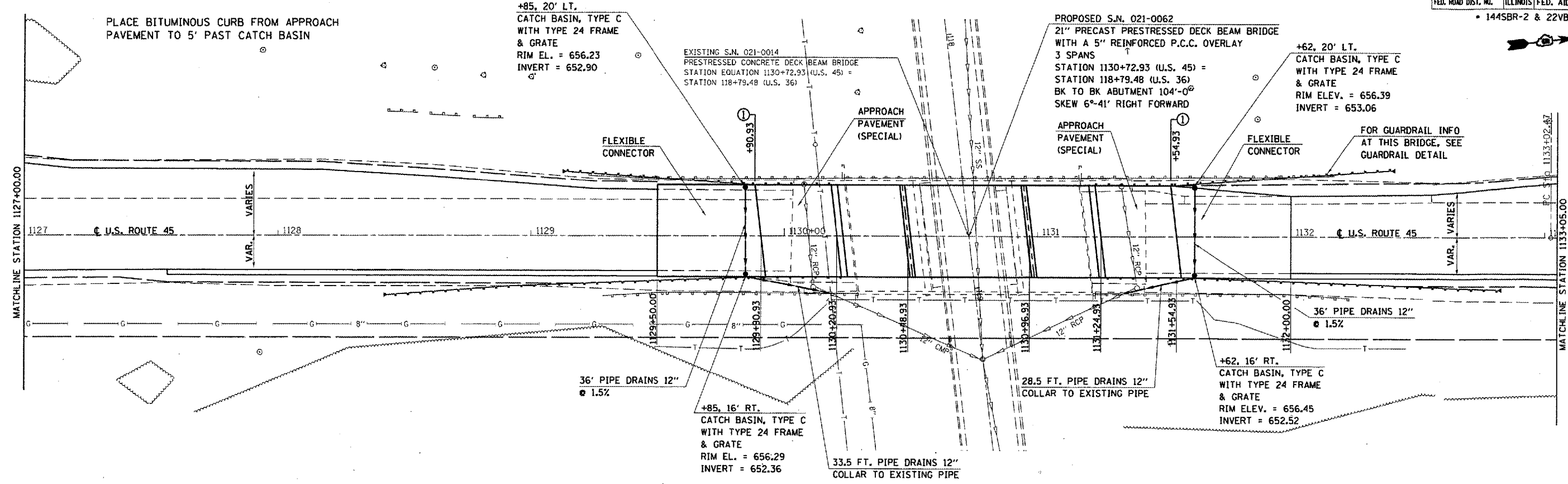
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 USER NAME = craigr

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	28
STA. 1127+00		TO STA. 1133+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 1445BR-2 & 22VBR-1				



* RIM ELEVATION IS AT BASE OF CURB.

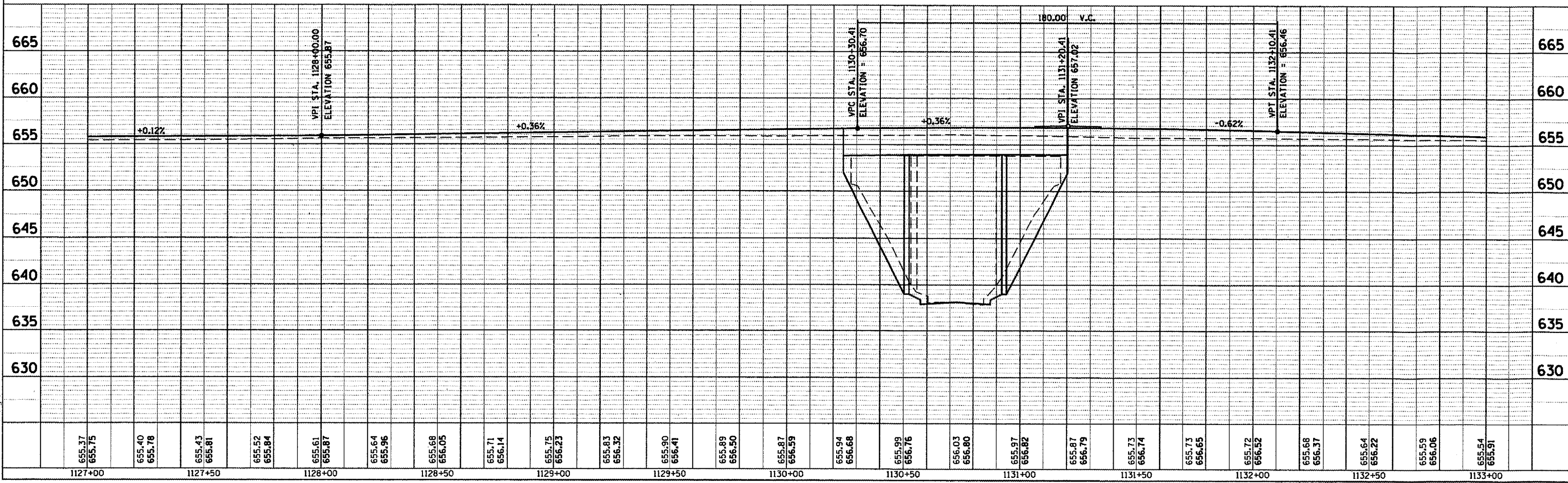
PLACE BITUMINOUS CURB FROM APPROACH PAVEMENT TO 5' PAST CATCH BASIN



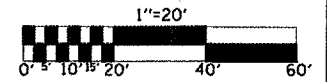
PLAN	SUBMITTED	DATE
NO.	BY	
NOTE BOOK NO.	DATE	

PROFILE	SUBMITTED	DATE
NO.	BY	
NOTE BOOK NO.	DATE	

PLOT DATE = 7/10/2006
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 USER NAME = craigr



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 1133+00		TO STA. 1139+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

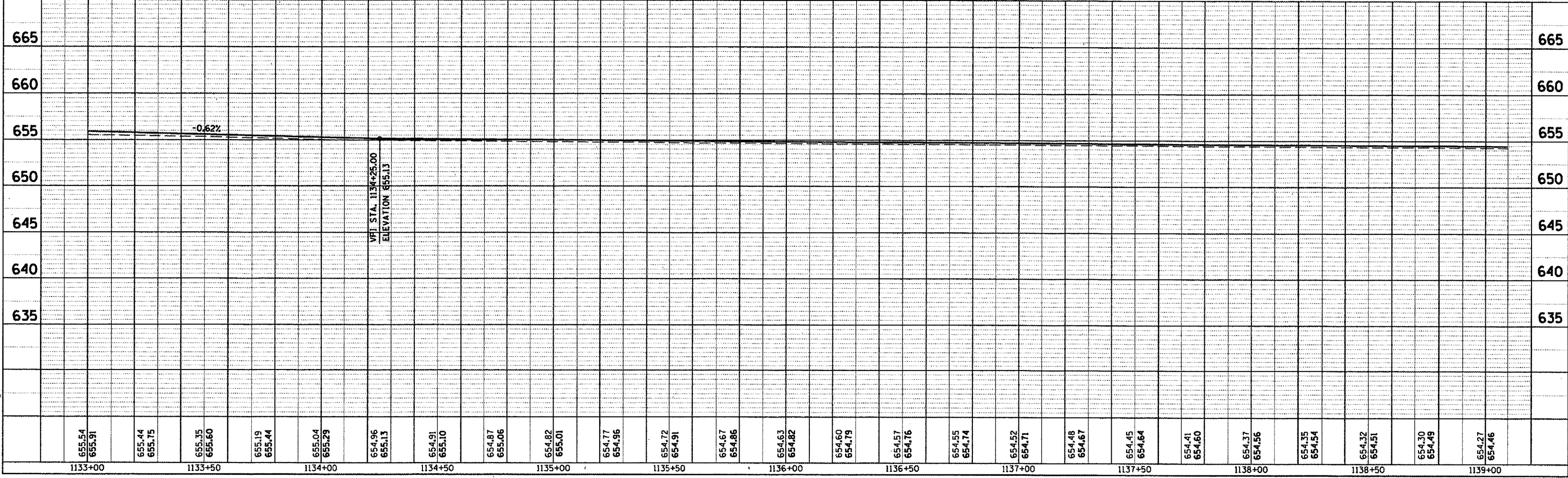
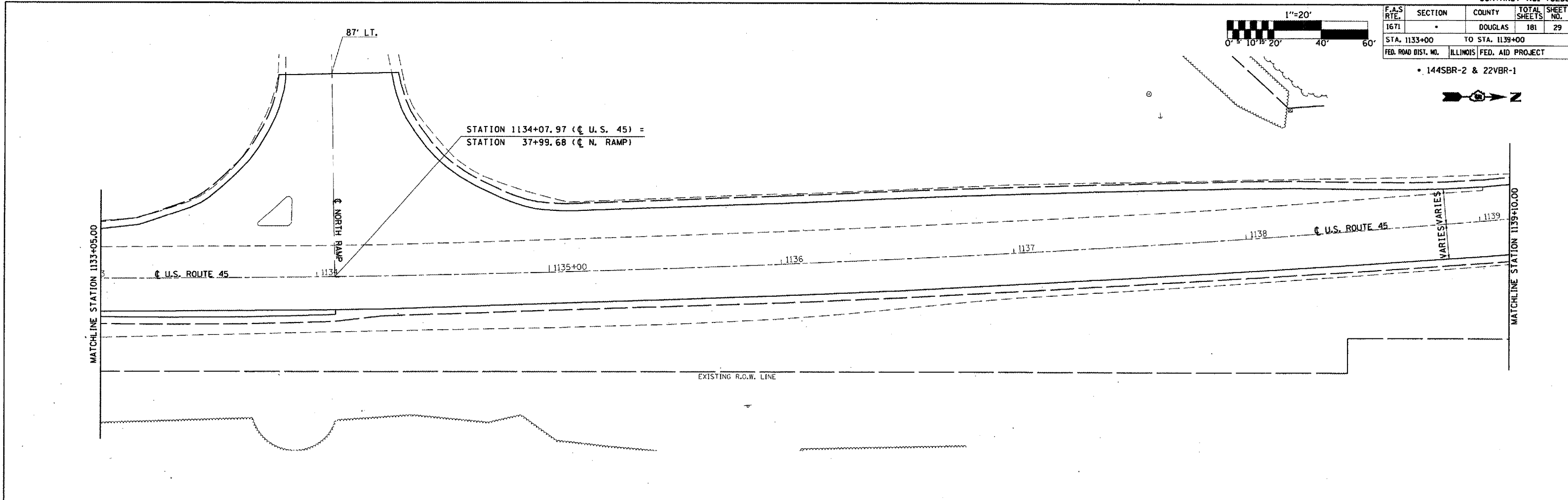


• 1445BR-2 & 22VBR-1

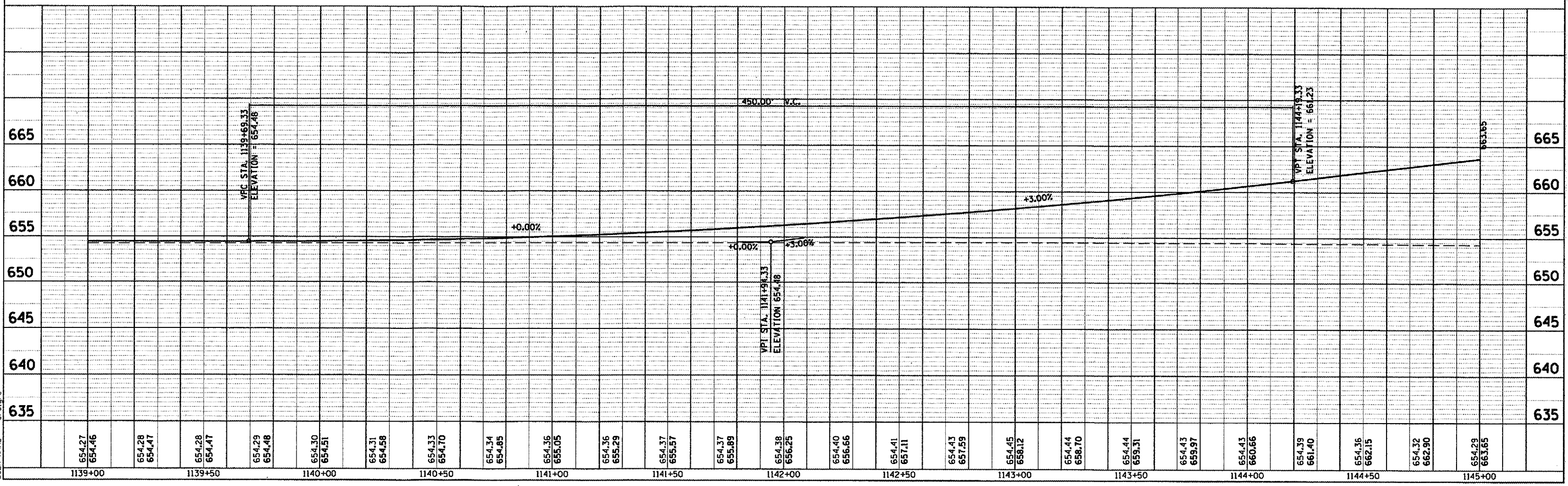
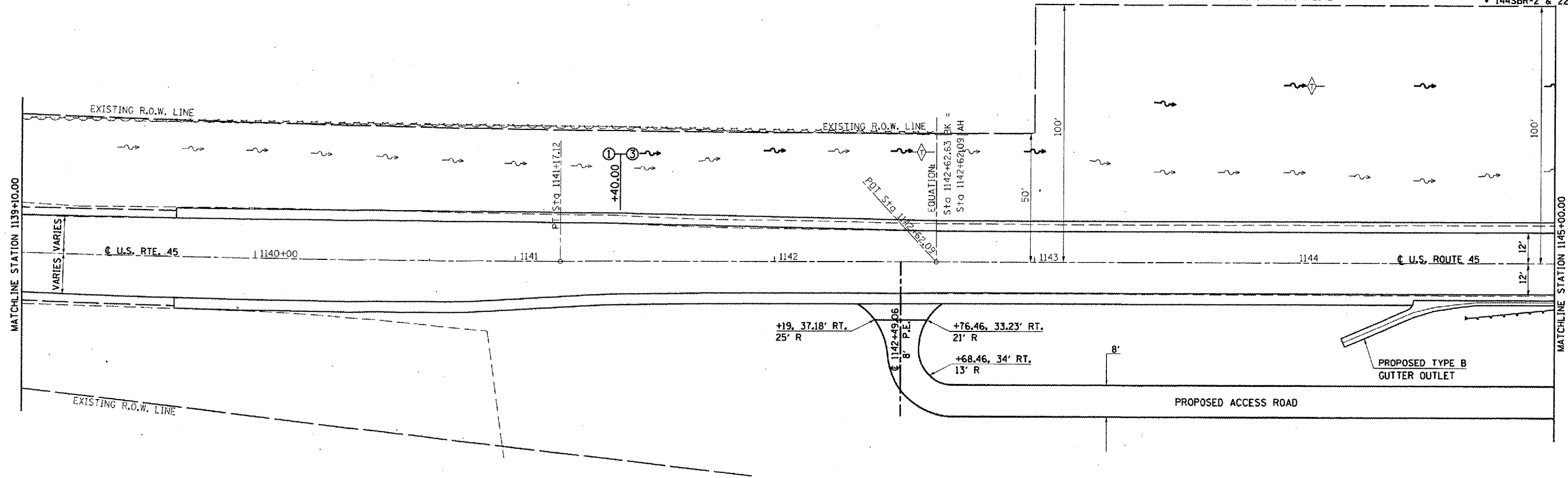
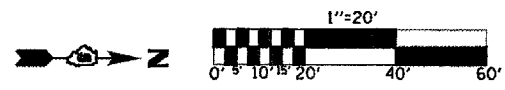
PLAN	DATE
SURVEYED	
PLOTTED	
NOTE BOOK NO.	
BY	

PROFILE	DATE
SURVEYED	
PLOTTED	
NOTE BOOK NO.	
BY	

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 PLOT SCALE = 42.3529 / IN.
 USER NAME = craigre



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	30
STA. 1139+00		TO STA. 1145+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		• 144SBR-2 & 22VBR-1		

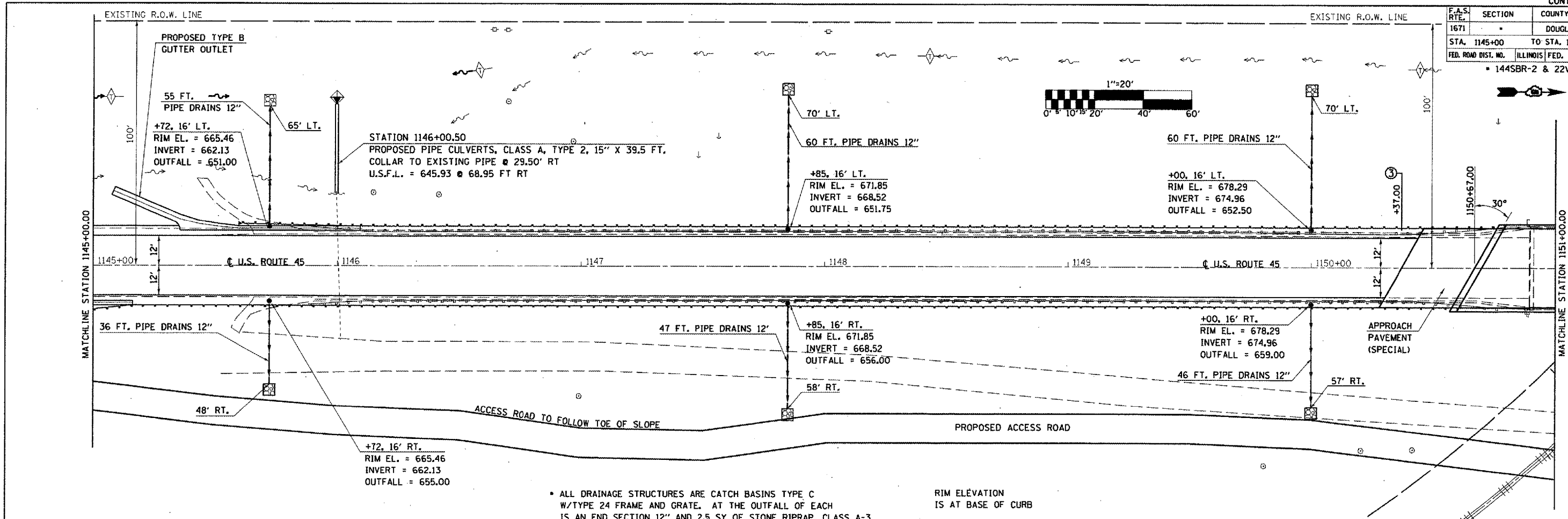


PLAN	DATE
BY	
DATE	
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PROFILE	DATE
BY	
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BY	
DATE	

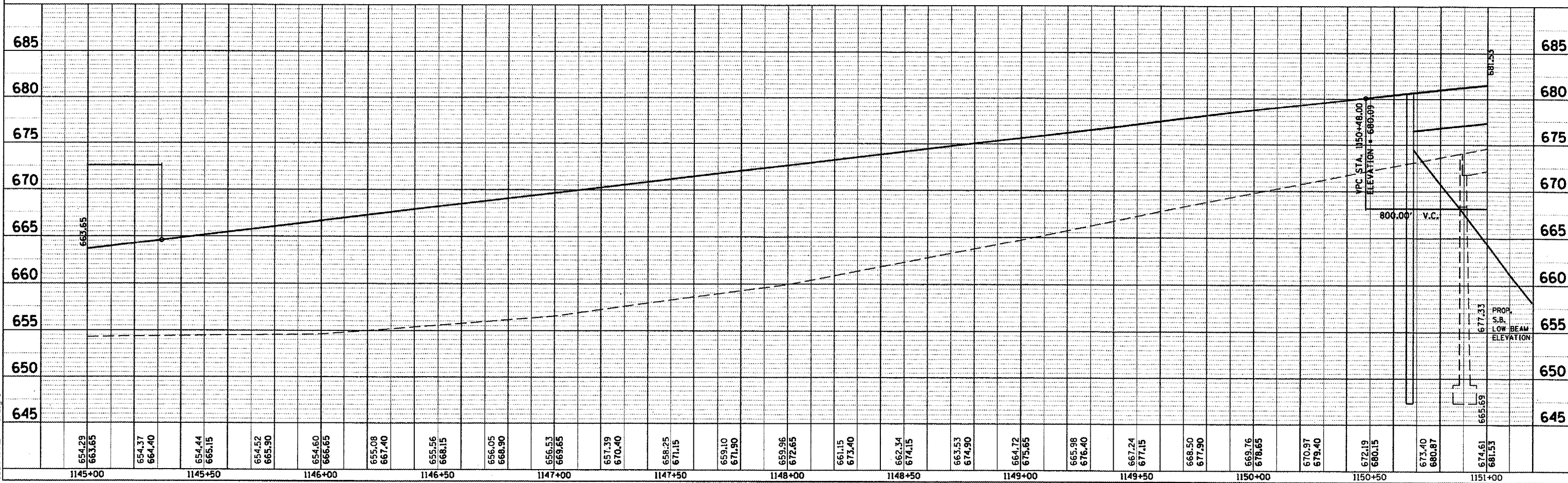
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 USER NAME = craigr

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	31
STA. 1145+00		TO STA. 1151+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				



• ALL DRAINAGE STRUCTURES ARE CATCH BASINS TYPE C W/TYPE 24 FRAME AND GRATE. AT THE OUTFALL OF EACH IS AN END SECTION 12" AND 2.5 SY OF STONE RIPRAP, CLASS A-3

RIM ELEVATION IS AT BASE OF CURB

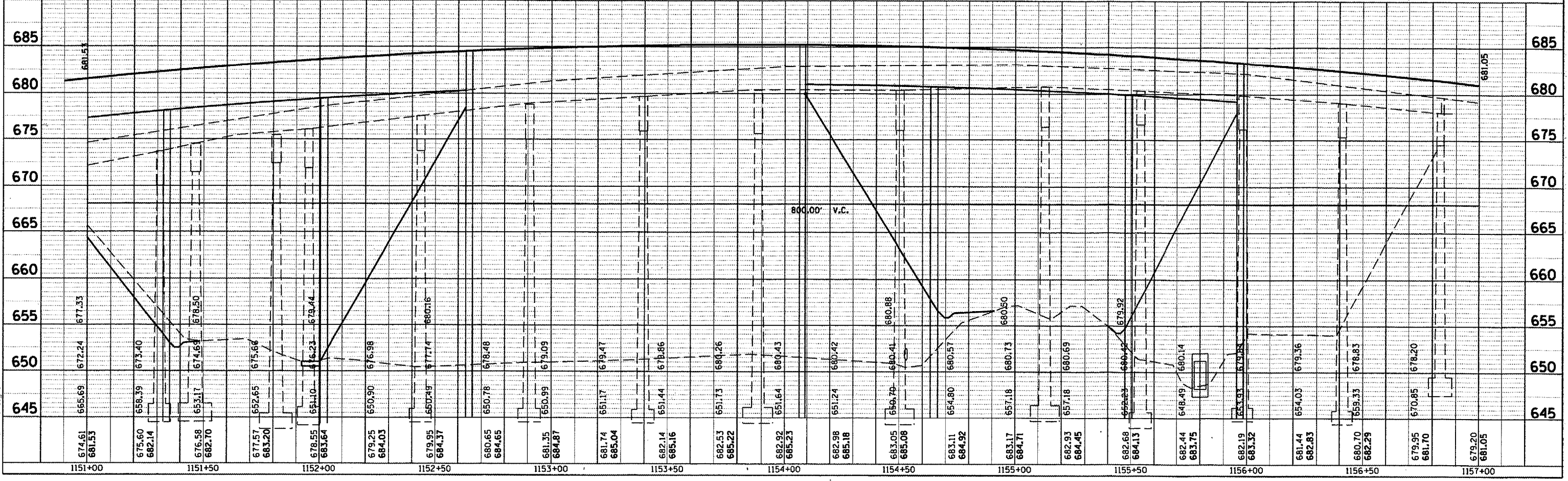
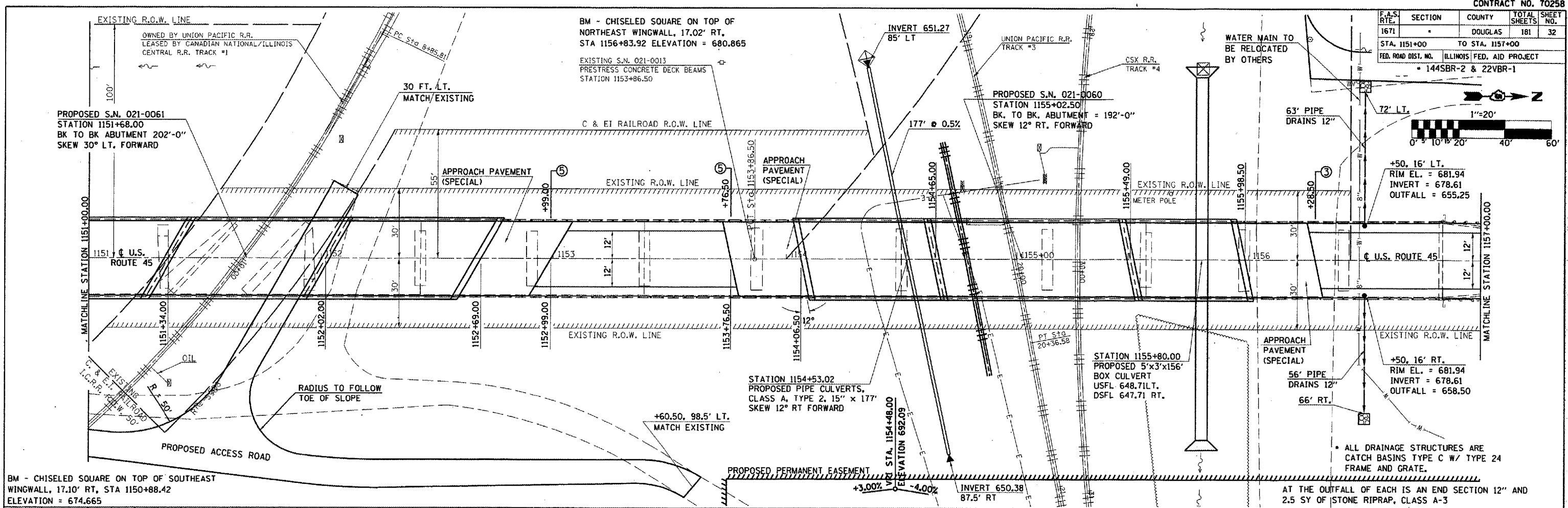
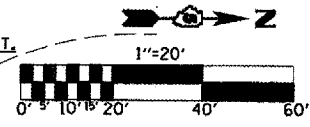


PLAN	DATE	BY
DATE		
BY		
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FILE NAME		
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FILE NAME		

PROFILE	DATE	BY
DATE		
BY		
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FILE NAME		
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FILE NAME		

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 USER NAME = craig

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	32
STA. 1151+00		TO STA. 1157+00		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
• 144SBR-2 & 22VBR-1				

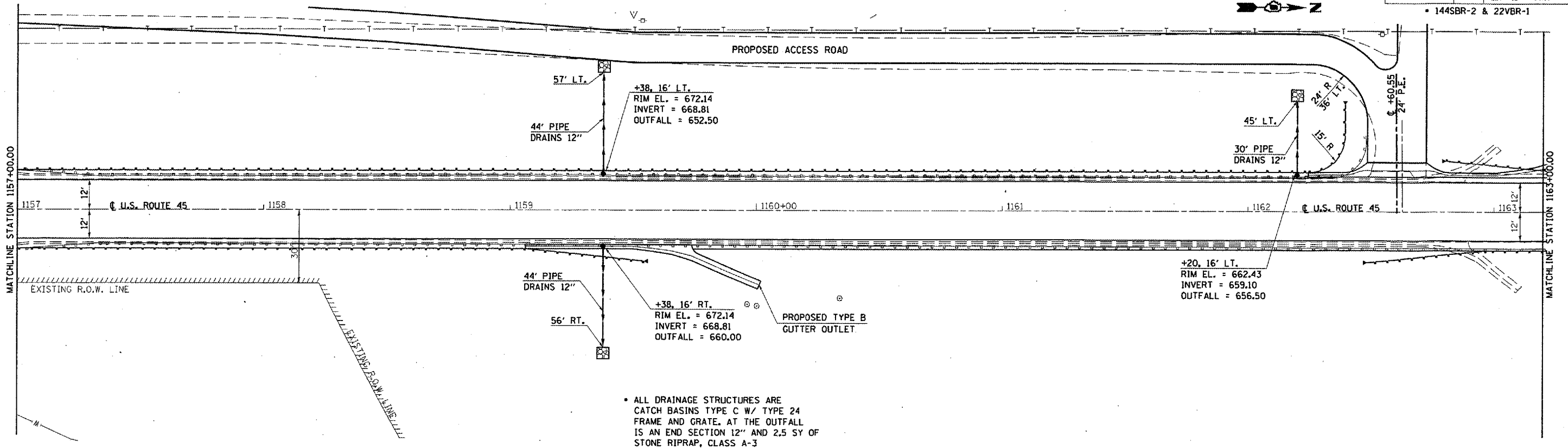
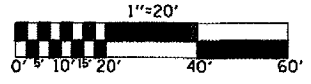


PLAN	DATE
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

PROFILE	DATE
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

PLOT DATE = 7/10/2006
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 USER NAME = craig

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	33
STA. 1157+00		TO STA. 1163+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 1445BR-2 & 22VBR-1				

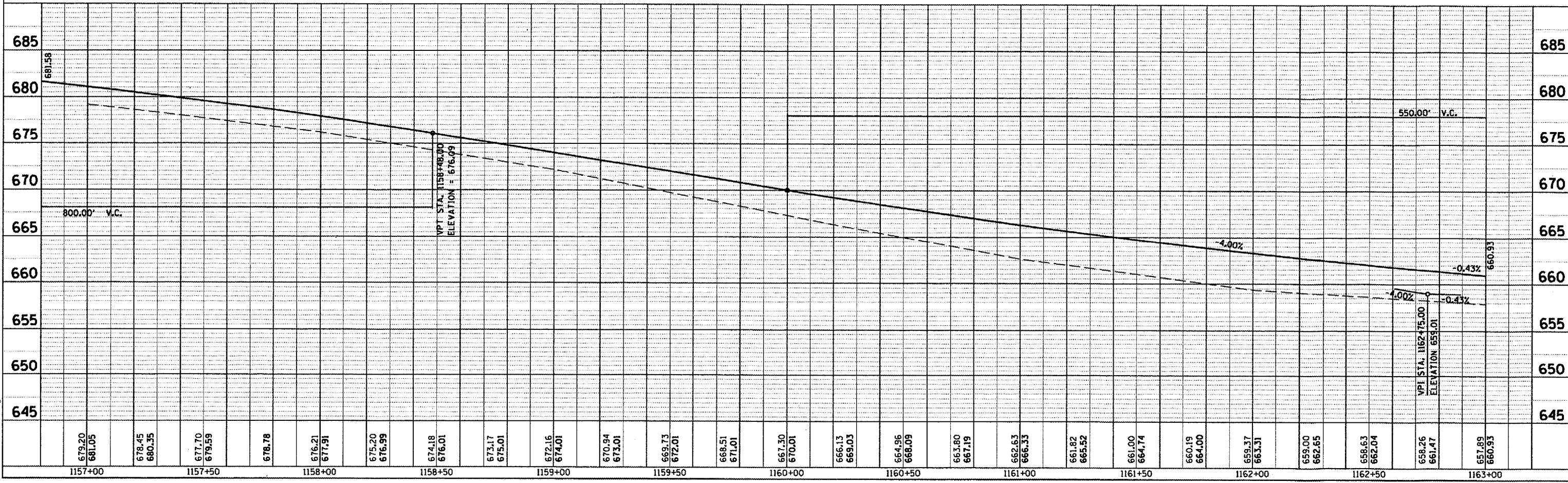


• ALL DRAINAGE STRUCTURES ARE CATCH BASINS TYPE C W/ TYPE 24 FRAME AND GRATE. AT THE OUTFALL IS AN END SECTION 12" AND 2.5 SY OF STONE RIPRAP, CLASS A-3

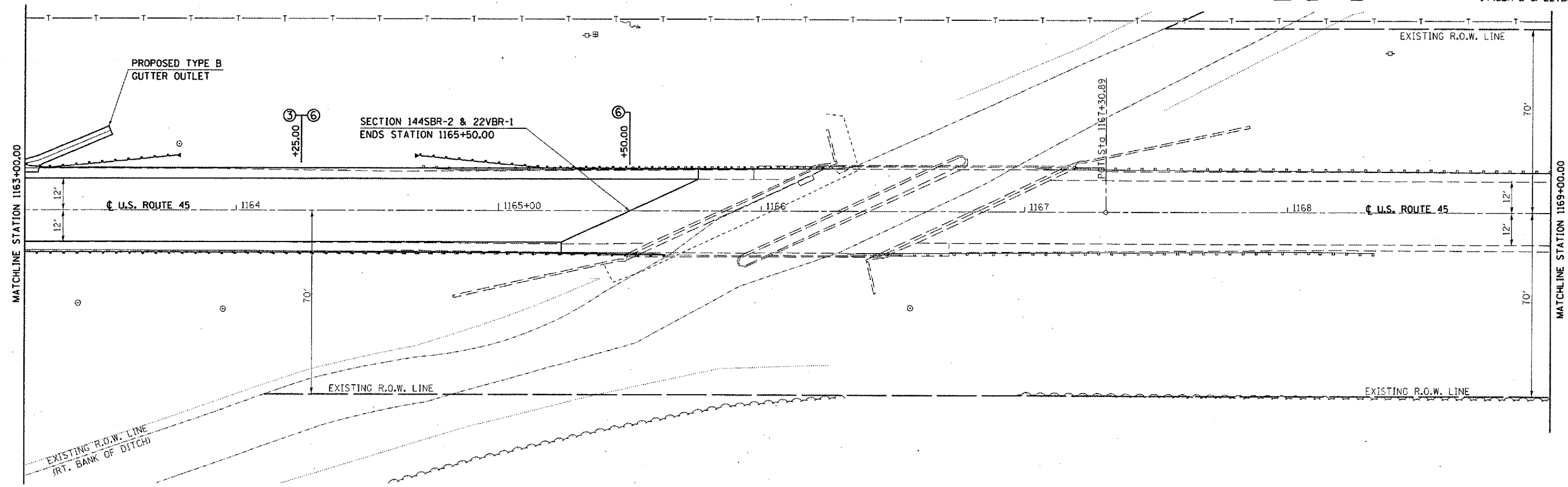
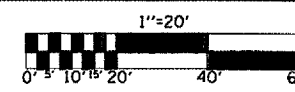
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NO. _____	BY _____	_____
NOTE BOOK NO. _____	DATE CHECKED _____	
NO. _____	BY _____	_____
DATE _____		

PROFILE	SURVEYED	DATE
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DATE _____		

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 USER NAME = c8a1gr



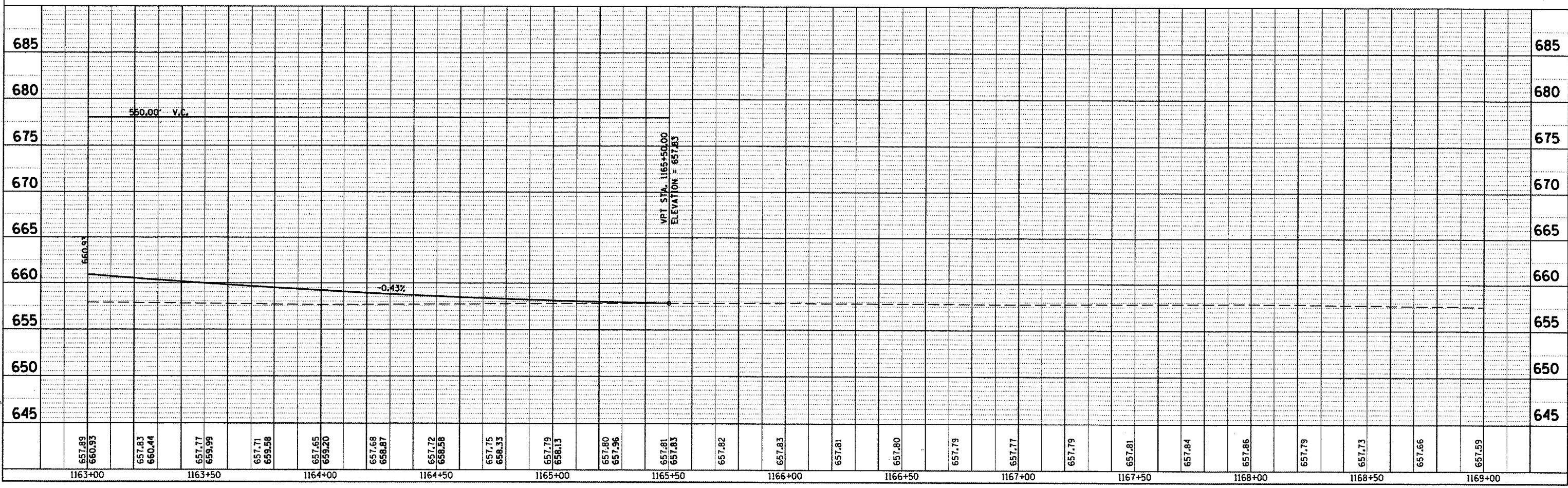
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	(22VBR)BR	DOUGLAS	181	34
STA. 1163+00		TO STA. 1169+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 1445BR-2 & 22VBR-1				



PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	DATE FILE NAME	

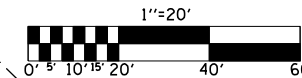
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	BY	
	NO. OF WAY CHECKED	
	DATE FILE NAME	

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 PLOT SCALE = 42.3529 / IN.
 USER NAME = craigr



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	35
STA. 1122+00.00		TO STA. 1127+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

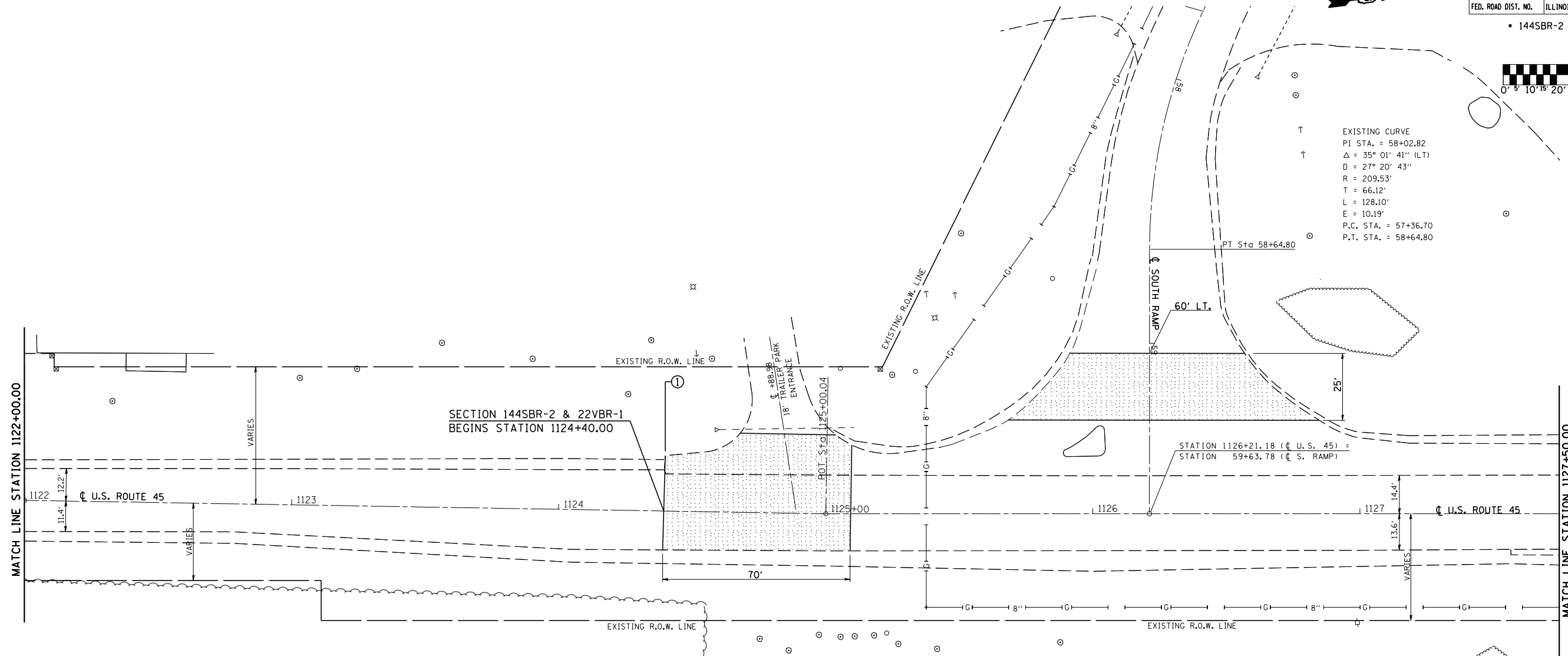
* 144SBR-2 & 22VBR-1



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

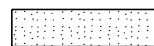


EXISTING CURVE
 PI STA. = 58+02.82
 $\Delta = 35^\circ 01' 41''$ (LT)
 D = 27° 20' 43"
 R = 209.53'
 T = 66.12'
 L = 128.10'
 E = 10.19'
 P.C. STA. = 57+36.70
 P.T. STA. = 58+64.80



SECTION 144SBR-2 & 22VBR-1
 BEGINS STATION 1124+40.00

STATION 1126+21.18 (C U.S. 45) =
 STATION 59+63.78 (C S. RAMP)

 BITUMINOUS SURFACE REMOVAL - BUTT JOINT

SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

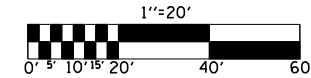
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 DATE: 05/31/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

PLOT DATE = 7/10/2006
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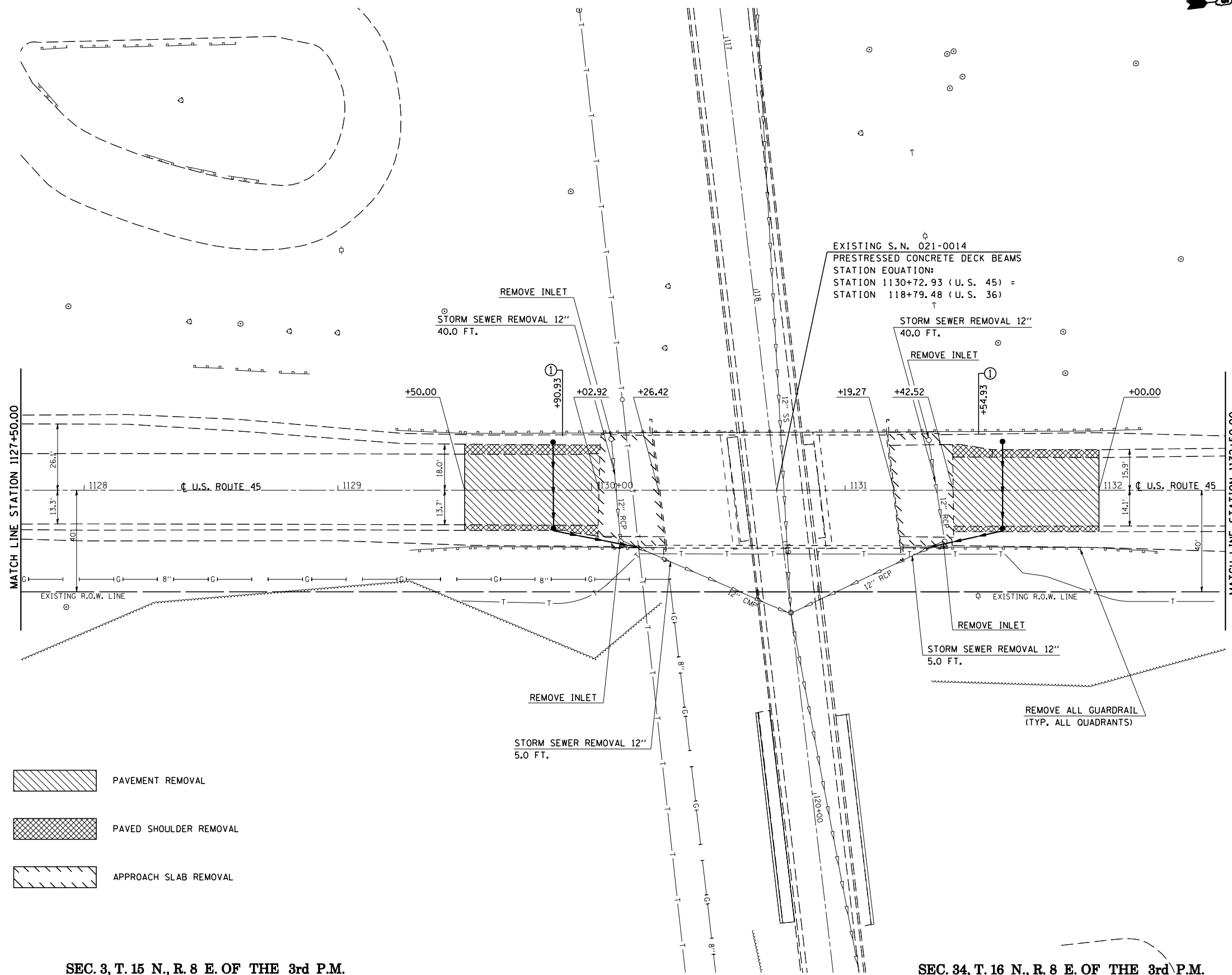
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	36
STA. 1127+75.00		TO STA. 1132+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

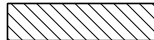

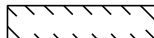
• 144SBR-2 & 22VBR-1



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  APPROACH SLAB REMOVAL

SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

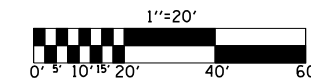
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CHECKED BY: C.R.G.

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	37
STA. 1132+50.00		TO STA. 1138+50.57		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1

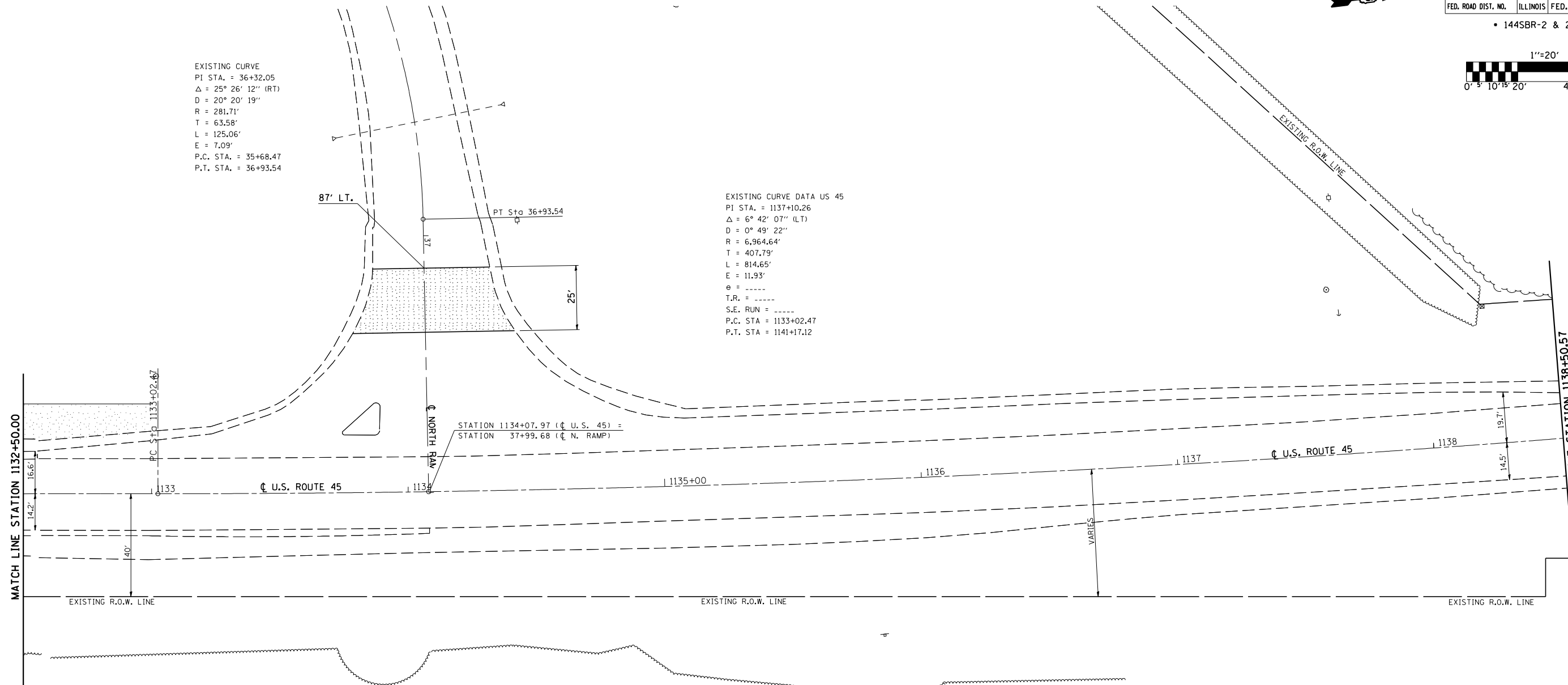


SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

EXISTING CURVE
 PI STA. = 36+32.05
 Δ = 25° 26' 12" (RT)
 D = 20° 20' 19"
 R = 281.71'
 T = 63.58'
 L = 125.06'
 E = 7.09'
 P.C. STA. = 35+68.47
 P.T. STA. = 36+93.54

EXISTING CURVE DATA US 45
 PI STA. = 1137+10.26
 Δ = 6° 42' 07" (LT)
 D = 0° 49' 22"
 R = 6,964.64'
 T = 407.79'
 L = 814.65'
 E = 11.93'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 1133+02.47
 P.T. STA = 1141+17.12

STATION 1134+07.97 (C U.S. 45) =
 STATION 37+99.68 (C N. RAMP)



BITUMINOUS SURFACE REMOVAL - BUTT JOINT

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

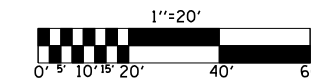
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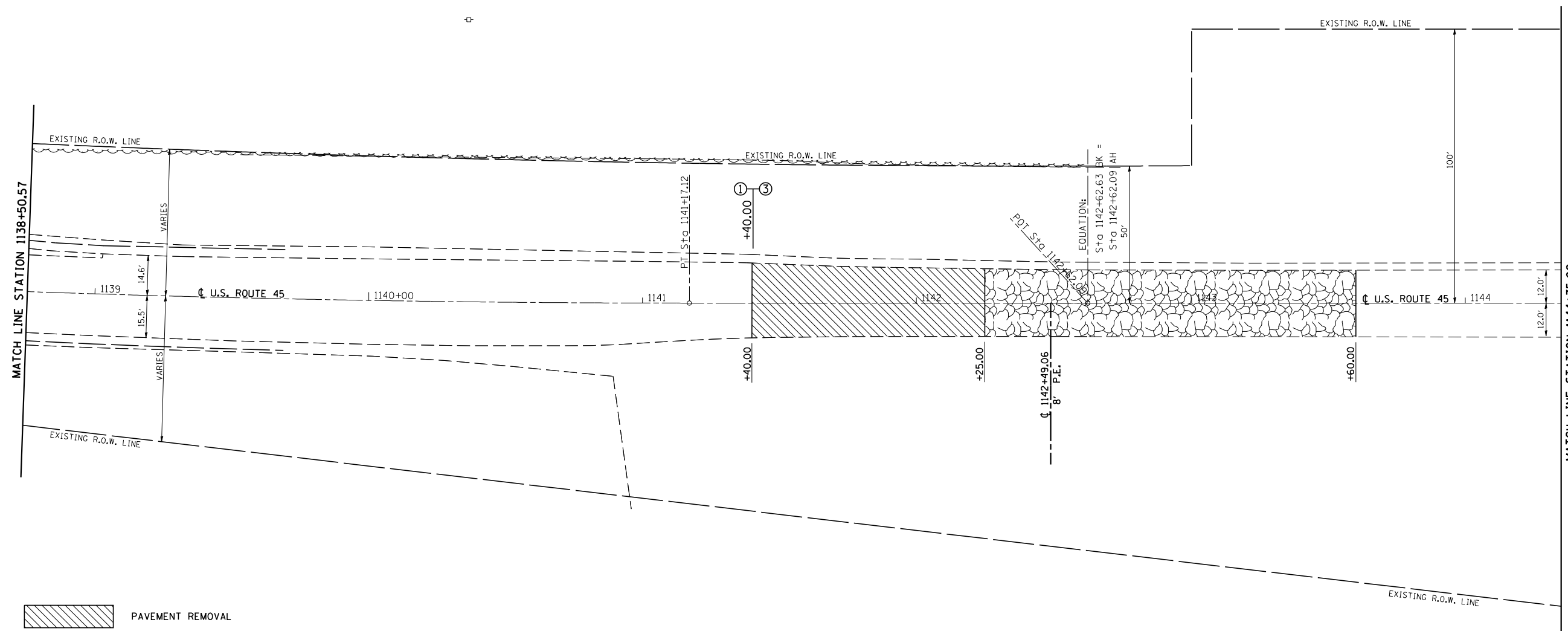
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 USER NAME = crgr

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	38
STA. 1138+50.57		TO STA. 1144+35.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



- PAVEMENT REMOVAL
- PAVEMENT BREAKING

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

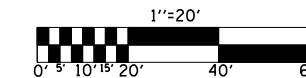
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 DATE: 05/31/06

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 CHECKED BY: C.R.G.

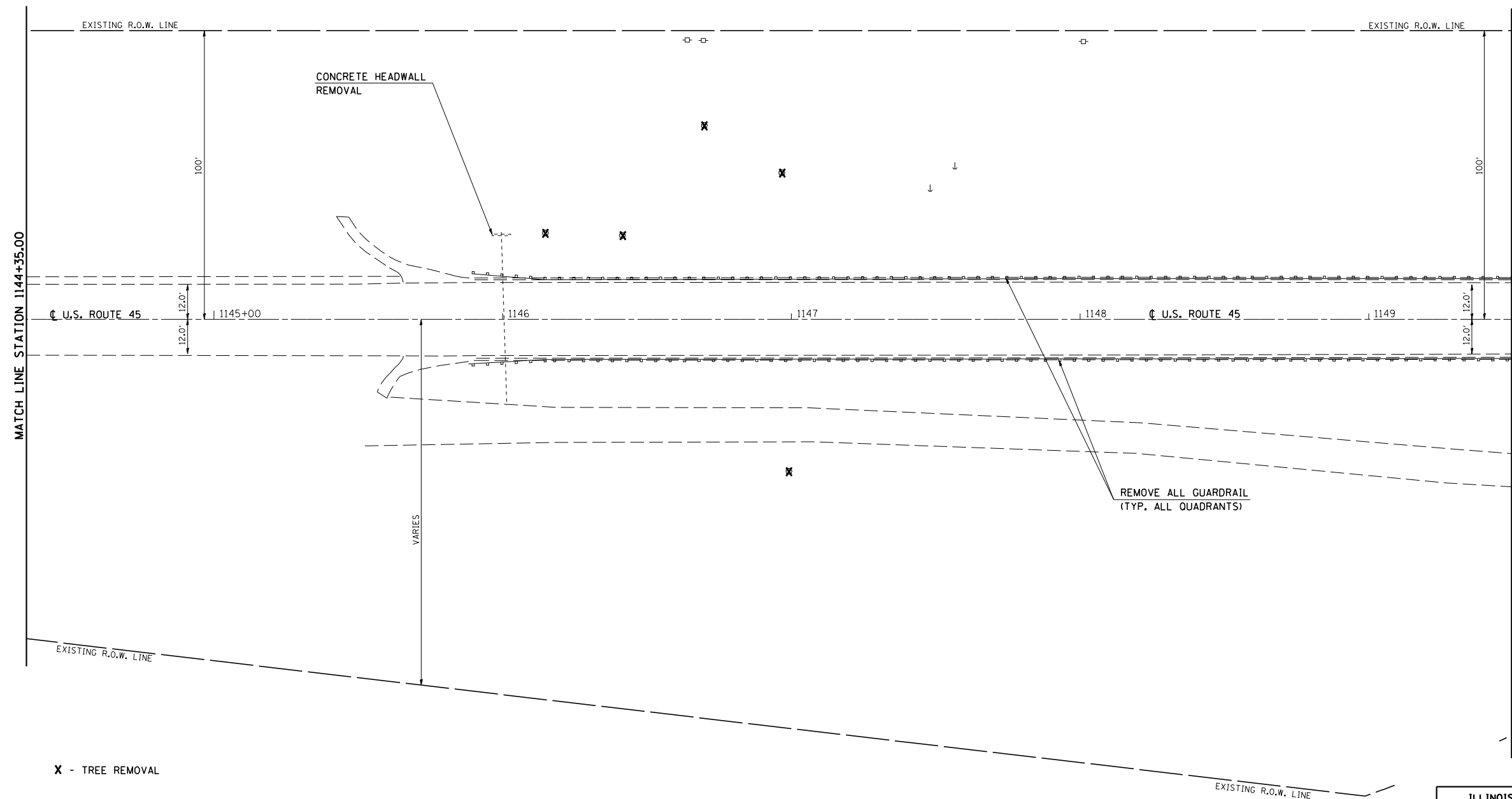
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 USER NAME = crg

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	39
STA. 1144+35.00		TO STA. 1149+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



X - TREE REMOVAL

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

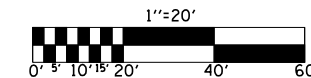
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 CHECKED BY: C.R.G.

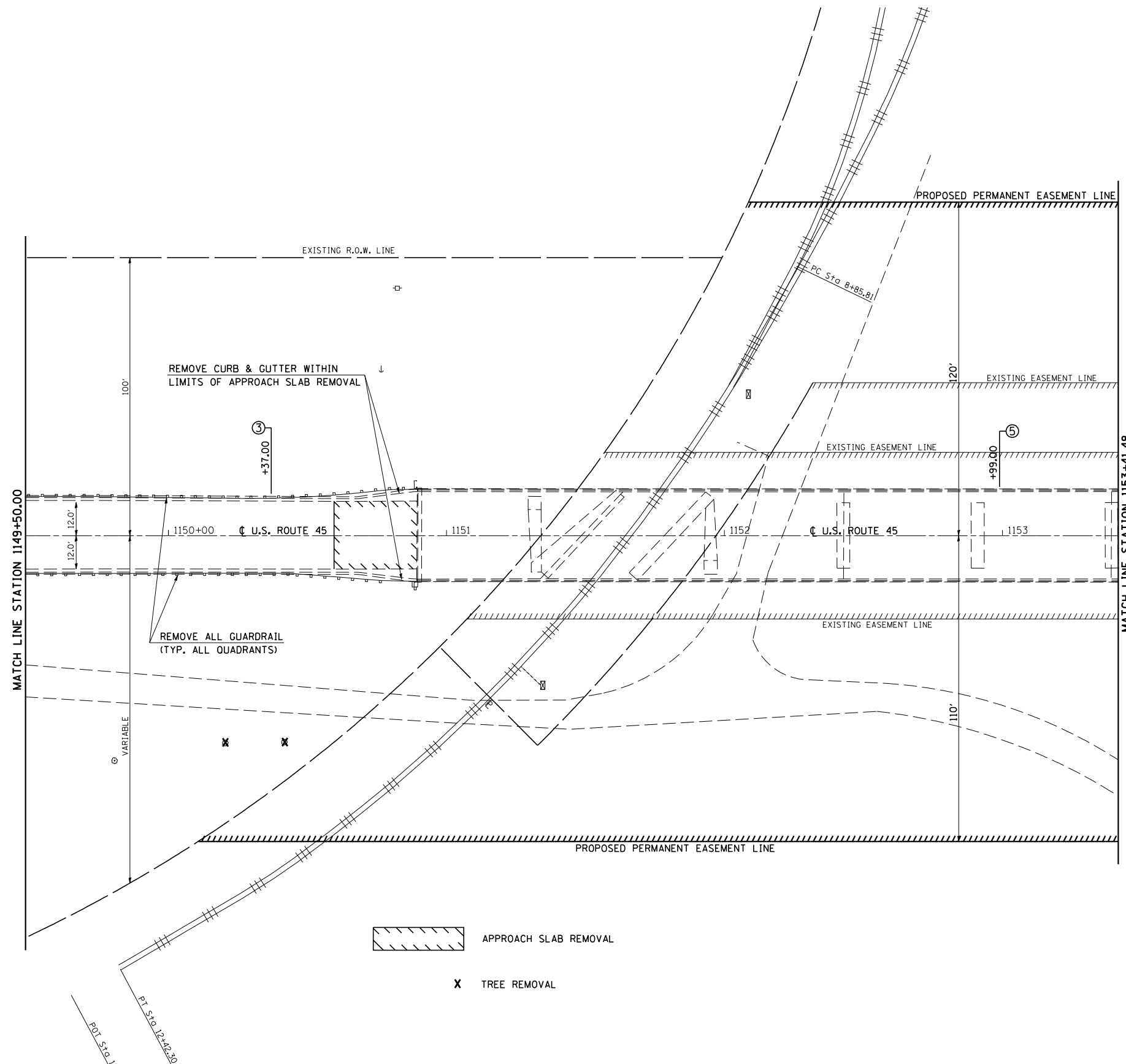
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 USER NAME = crgrg

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	40
STA. 1149+50.00		TO STA. 1153+41.48		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

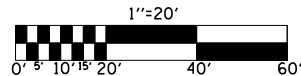
ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 05/31/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

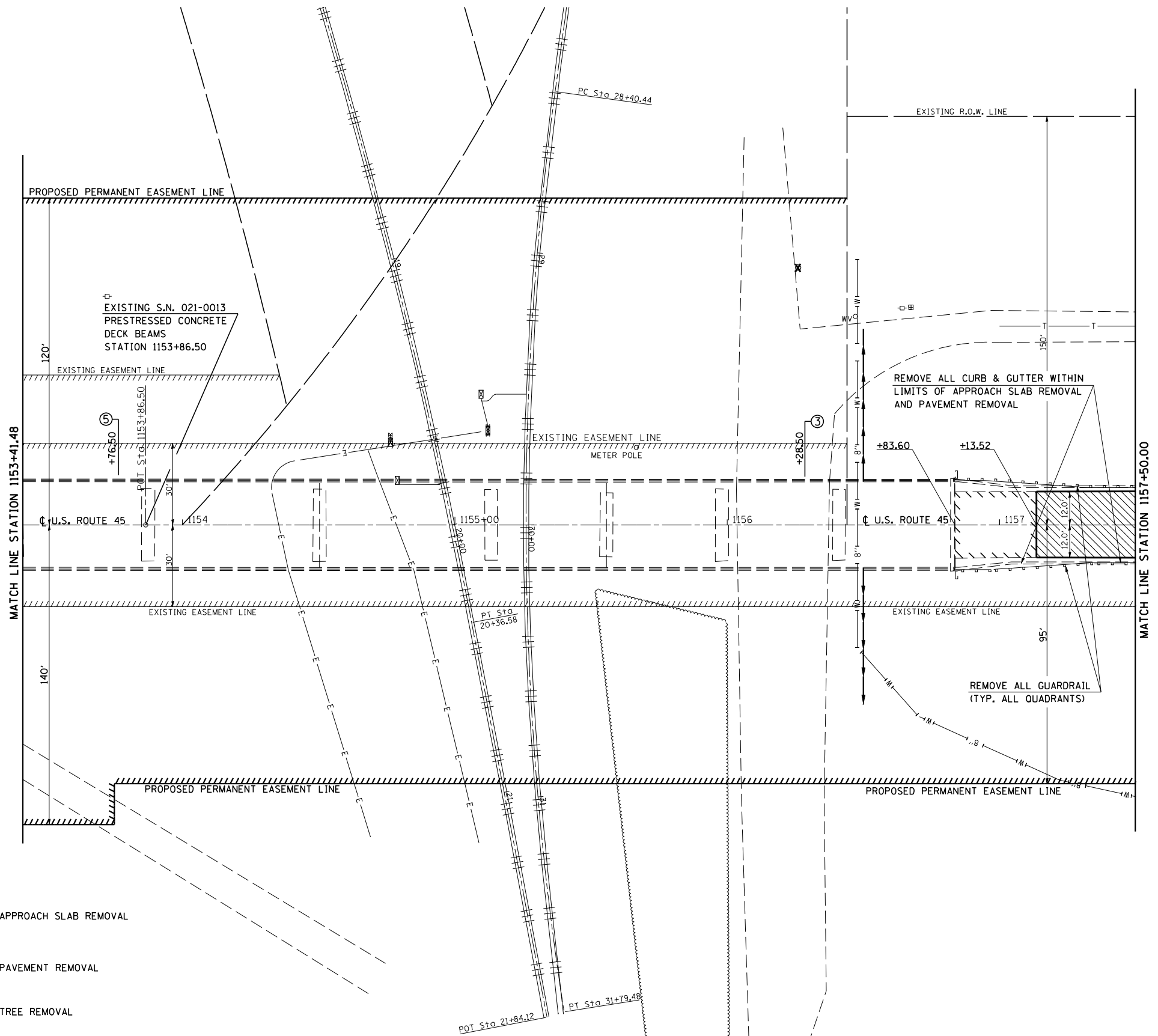
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 USER NAME = crg

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	41
STA. 1153+41.48		TO STA. 1157+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



- APPROACH SLAB REMOVAL
- PAVEMENT REMOVAL
- X** TREE REMOVAL

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

F.A.S. ROUTE 1671 (U.S. ROUTE 45)
SECTION 144SBR-2 & 22VBR-1
DOUGLAS COUNTY

SCALE: 1" = 20'-0"
DATE: 05/31/06

DRAWN BY: B.B.P.
CHECKED BY: C.R.G.

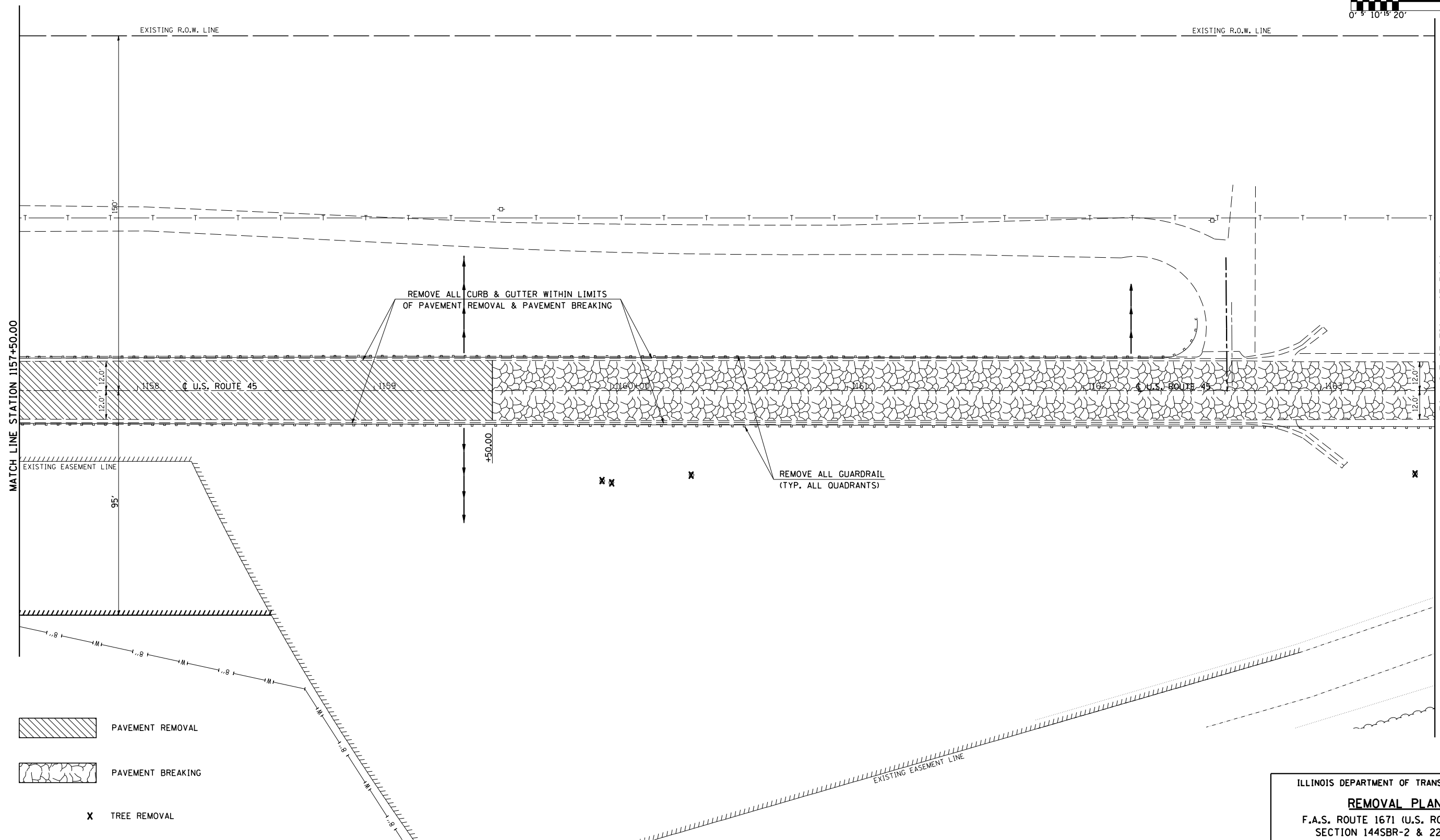
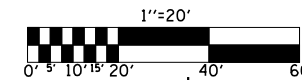
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 PLOT SCALE = 1/4" = 1'-0"
 USER NAME = crg


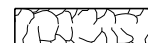

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671		DOUGLAS	181	42

STA. 1157+50.00 TO STA. 1163+50.00
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

• 144SBR-2 & 22VBR-1



-  PAVEMENT REMOVAL
-  PAVEMENT BREAKING
-  TREE REMOVAL

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\144SBR-2\144SBR-removal.dgn
 USER NAME = cr@grg

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

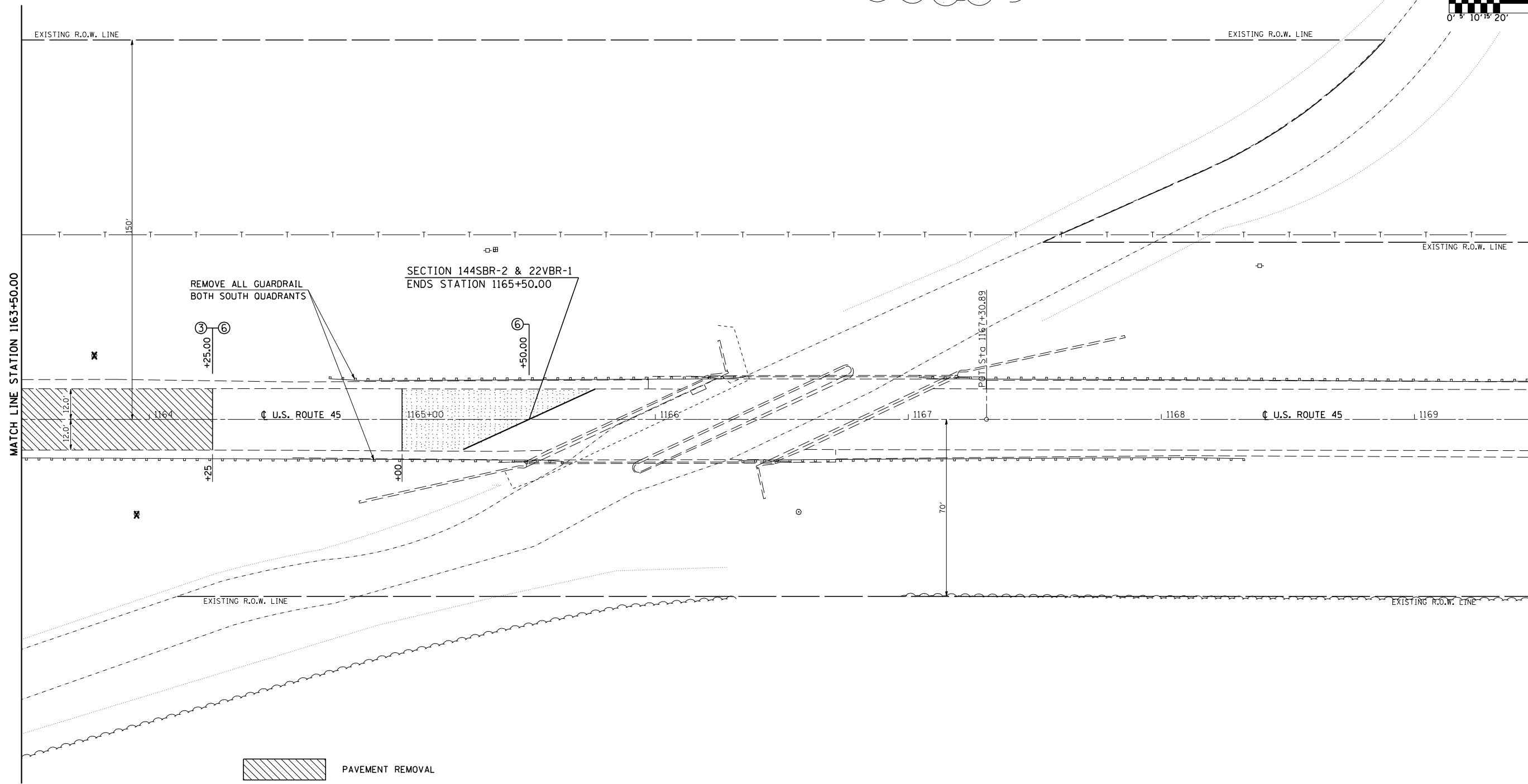
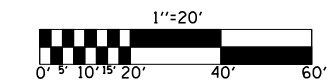
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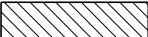
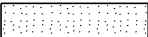

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	43
STA. 1163+50.00		TO STA. 1169+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



-  PAVEMENT REMOVAL
-  BITUMINOUS SURFACE REMOVAL - BUTT JOINT
-  TREE REMOVAL

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

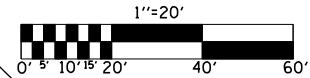
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 CHECKED BY: C.R.G.

PLOT DATE = 7/10/2006
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 USER NAME = crgrg

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	44
STA. 1122+00.00		TO STA. 1127+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

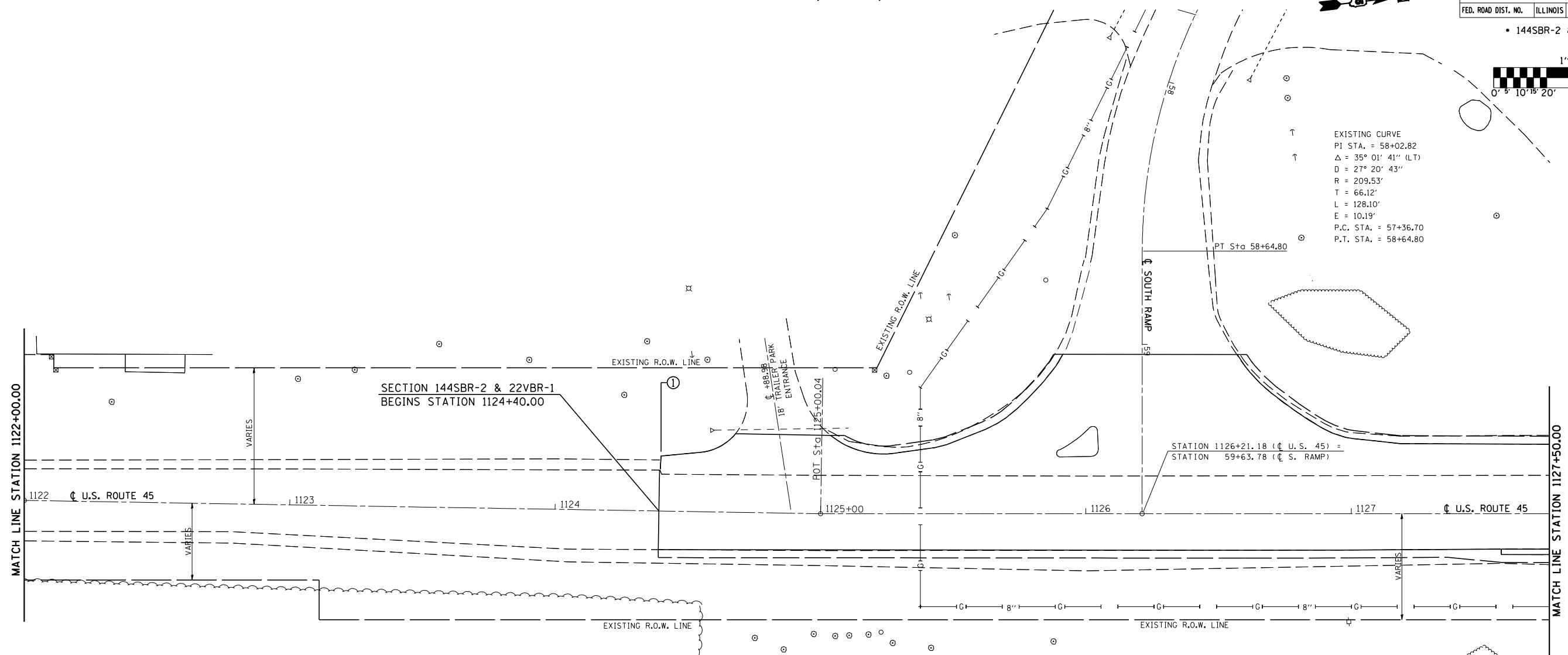
• 144SBR-2 & 22VBR-1



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.



EXISTING CURVE
 PI STA. = 58+02.82
 $\Delta = 35^\circ 01' 41''$ (LT)
 $D = 27^\circ 20' 43''$
 $R = 209.53'$
 $T = 66.12'$
 $L = 128.10'$
 $E = 10.19'$
 P.C. STA. = 57+36.70
 P.T. STA. = 58+64.80



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

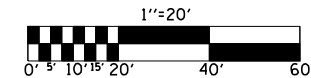
SCALE: 1" = 20'-0"
 DATE: 06/02/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\144SBR-2\144SBR-2.dwg
 USER NAME = crg

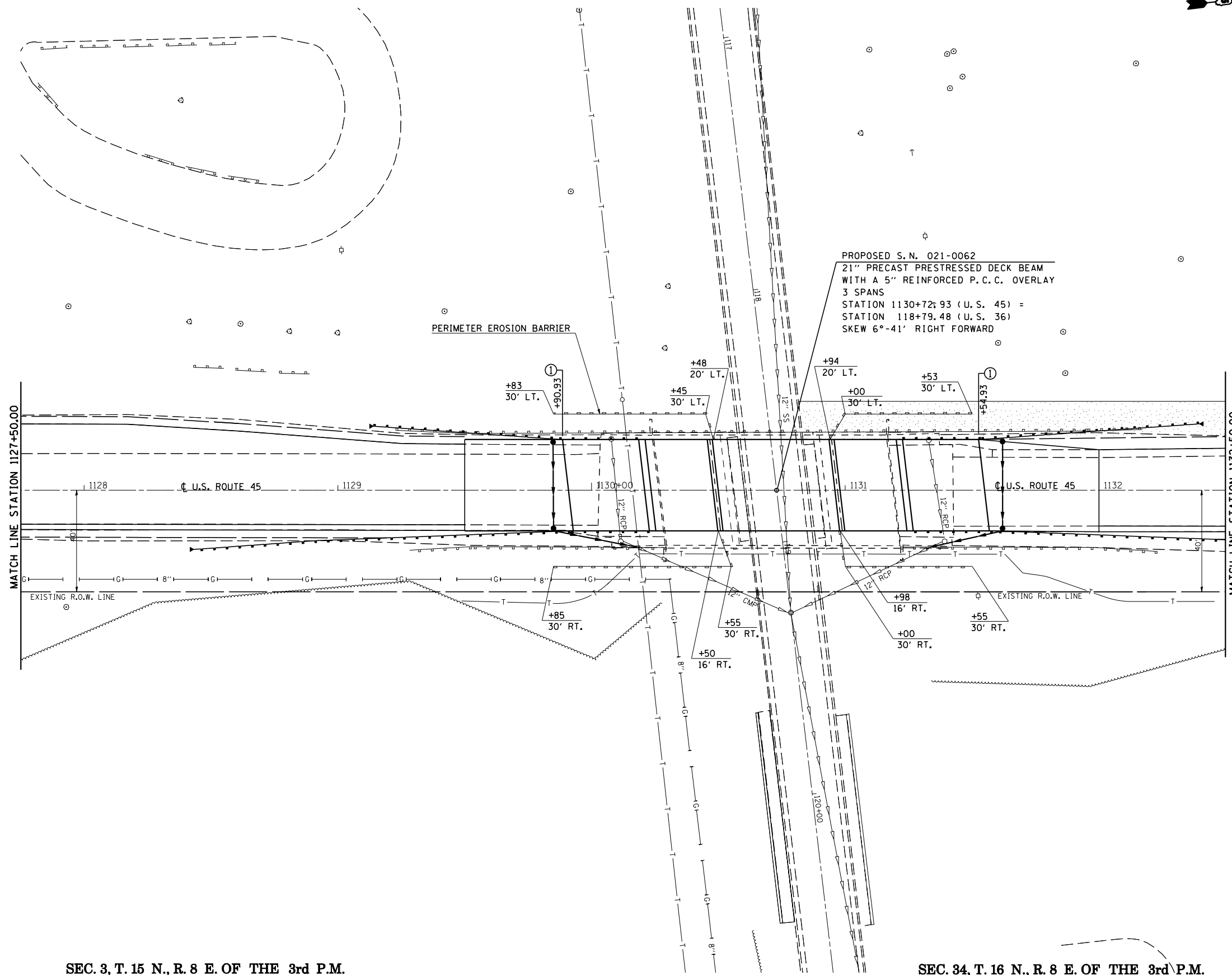
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	45
STA. 1127+75.00		TO STA. 1132+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\144SBR-2 & 22VBR-1\144SBR-2 & 22VBR-1.dgn
 USER NAME = cr@grg

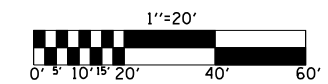
ILLINOIS DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/02/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	46
STA. 1132+50.00		TO STA. 1138+50.57		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1

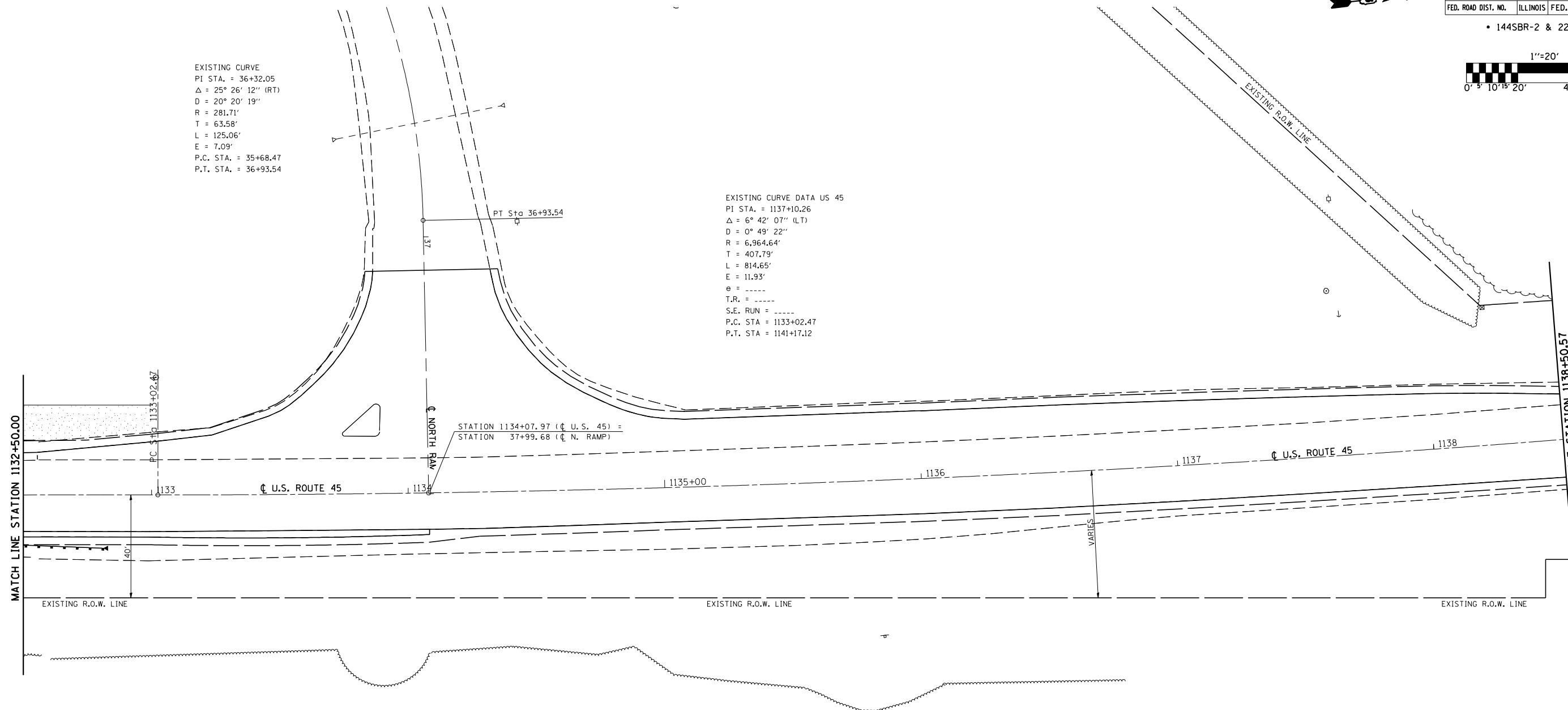


SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

EXISTING CURVE
 PI STA. = 36+32.05
 Δ = 25° 26' 12" (RT)
 D = 20° 20' 19"
 R = 281.71'
 T = 63.58'
 L = 125.06'
 E = 7.09'
 P.C. STA. = 35+68.47
 P.T. STA. = 36+93.54

EXISTING CURVE DATA US 45
 PI STA. = 1137+10.26
 Δ = 6° 42' 07" (LT)
 D = 0° 49' 22"
 R = 6,964.64'
 T = 407.79'
 L = 814.65'
 E = 11.93'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 1133+02.47
 P.T. STA = 1141+17.12

STATION 1134+07.97 (C U.S. 45) =
 STATION 37+99.68 (C N. RAMP)



SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

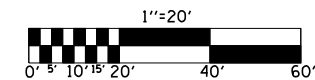
ILLINOIS DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/02/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

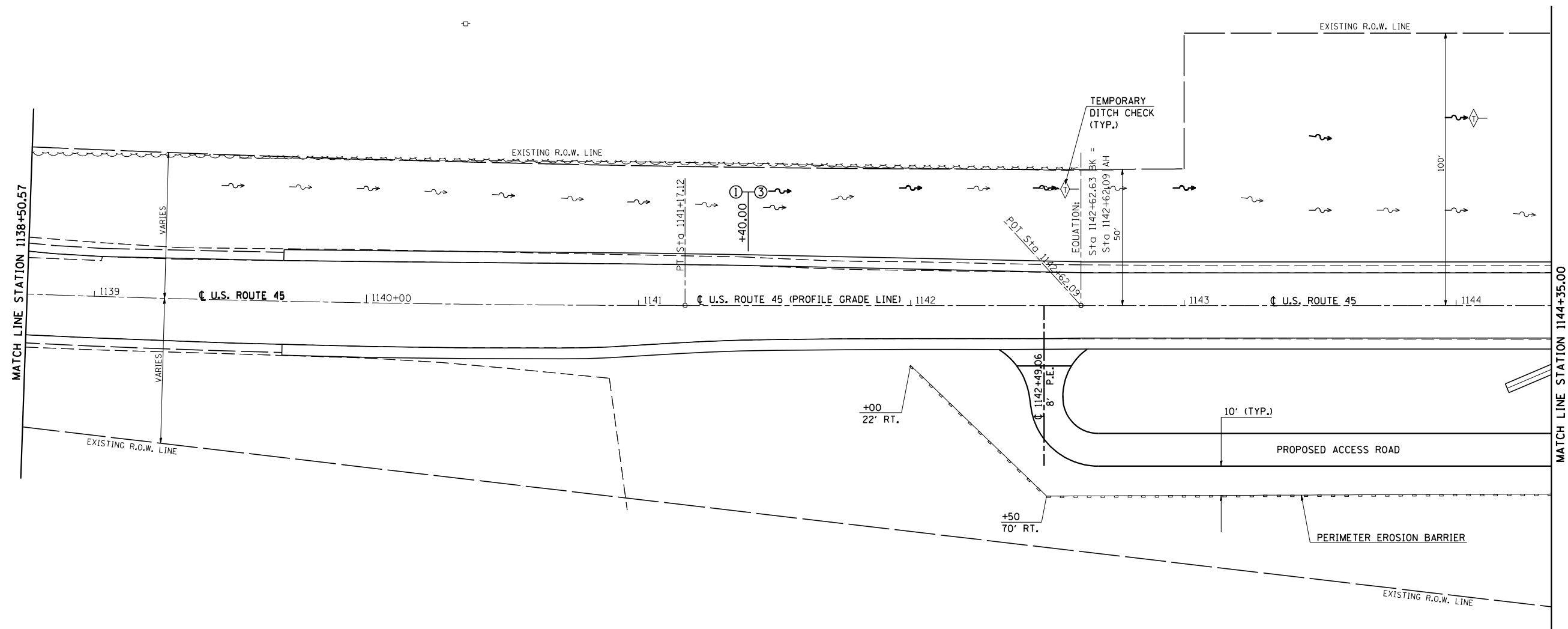
PLOT DATE = 7/10/2006
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 DATE = 02/25/23
 USER NAME = cr.gre

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	47
STA. 1138+50.57		TO STA. 1144+35.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



PLOT DATE = 7/10/2006
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 PLOT SCALE = 1/4" = 1' IN.
 USER NAME = c:\dgr

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

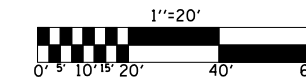
ILLINOIS DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/02/06

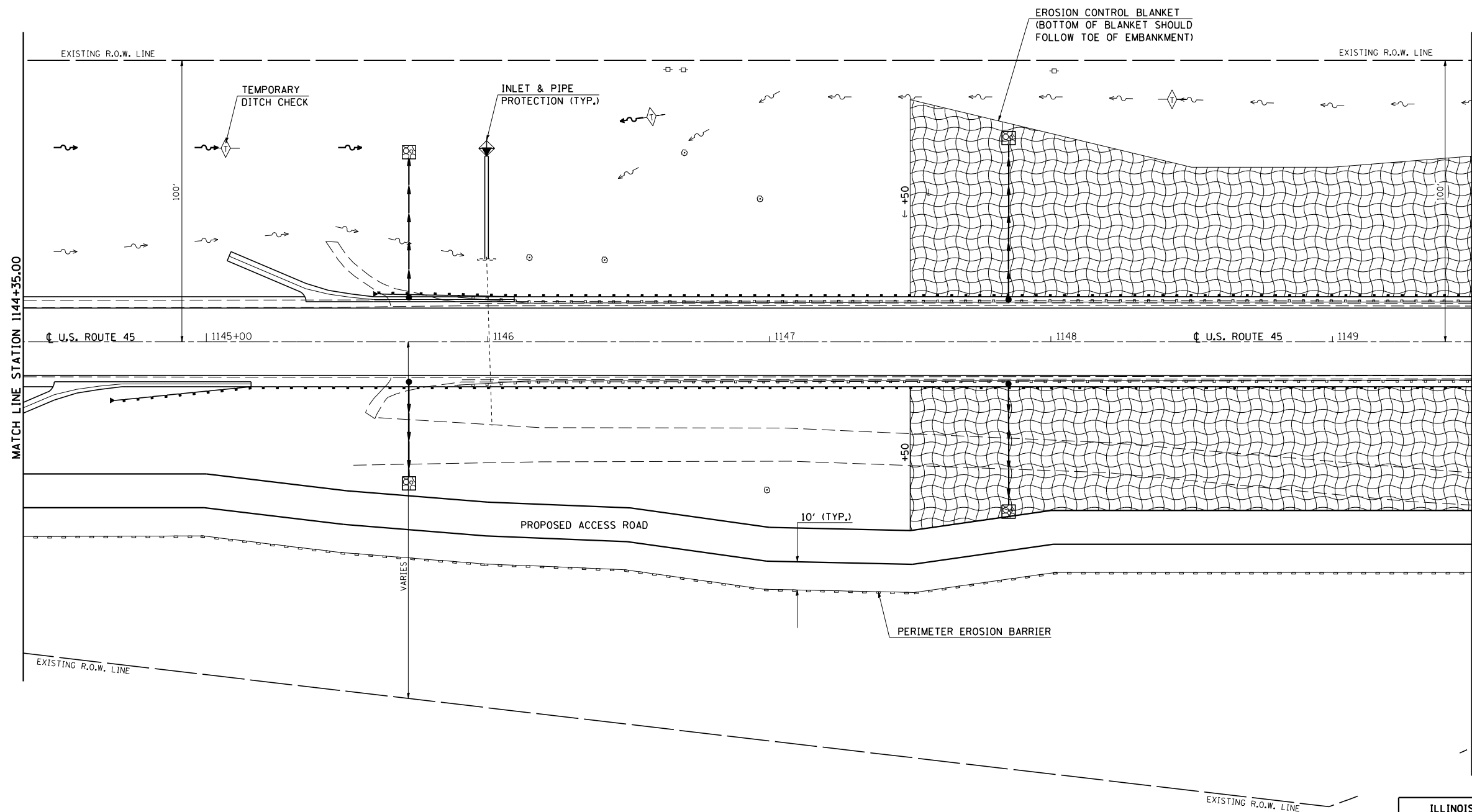
DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	48
STA. 1144+35.00		TO STA. 1149+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\14450202 (v8)\70258erosion.dgn
 USER NAME = crgrg

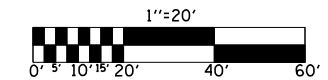
ILLINOIS DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/02/06

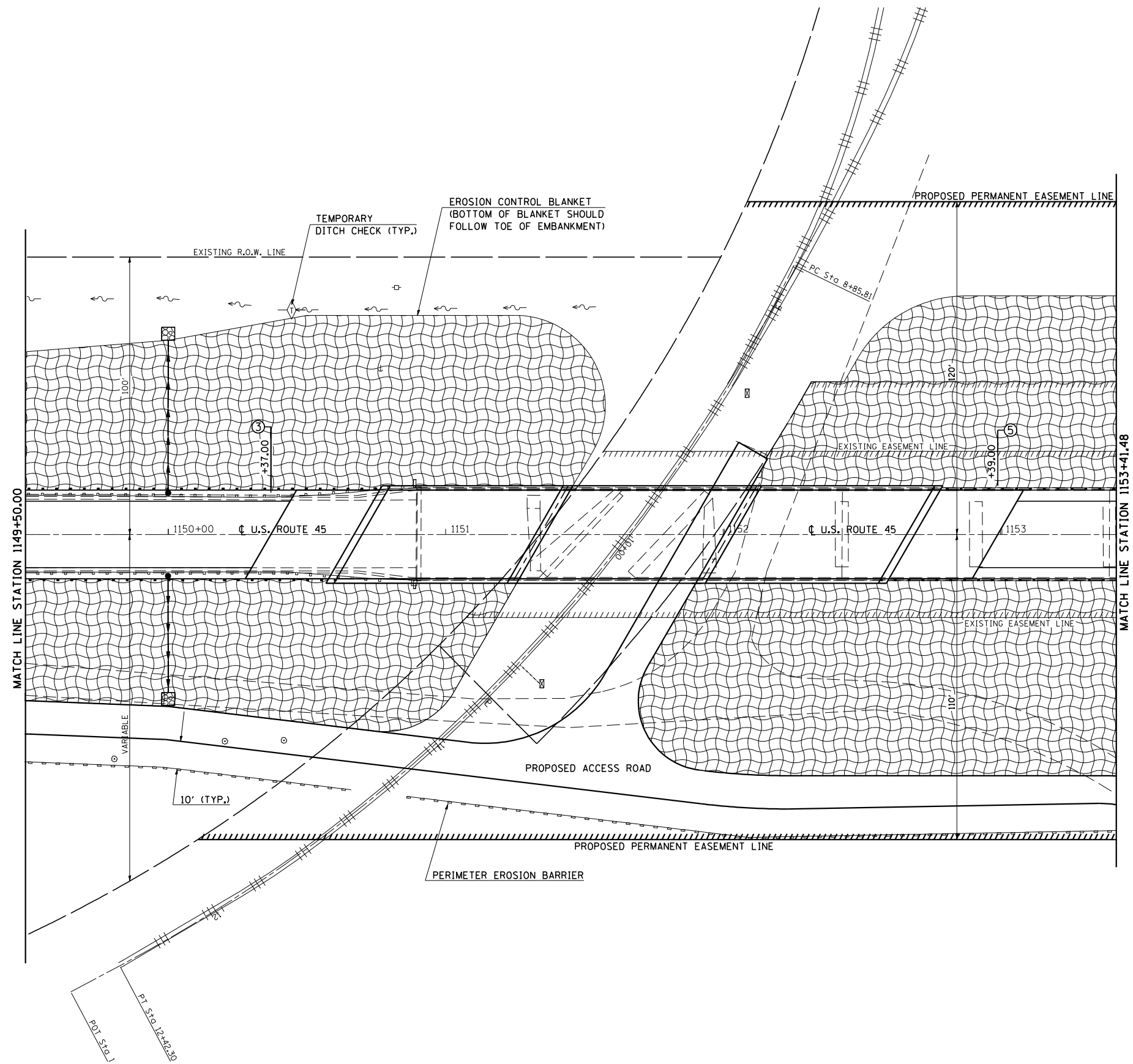
DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	49
STA. 1149+50.00		TO STA. 1153+41.48		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

F.A.S. ROUTE 1671 (U.S. ROUTE 45)
SECTION 144SBR-2 & 22VBR-1
DOUGLAS COUNTY

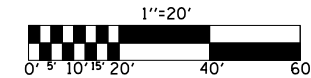
SCALE: 1" = 20'-0"
DATE: 06/02/06

DRAWN BY: B.B.P.
CHECKED BY: C.R.G.

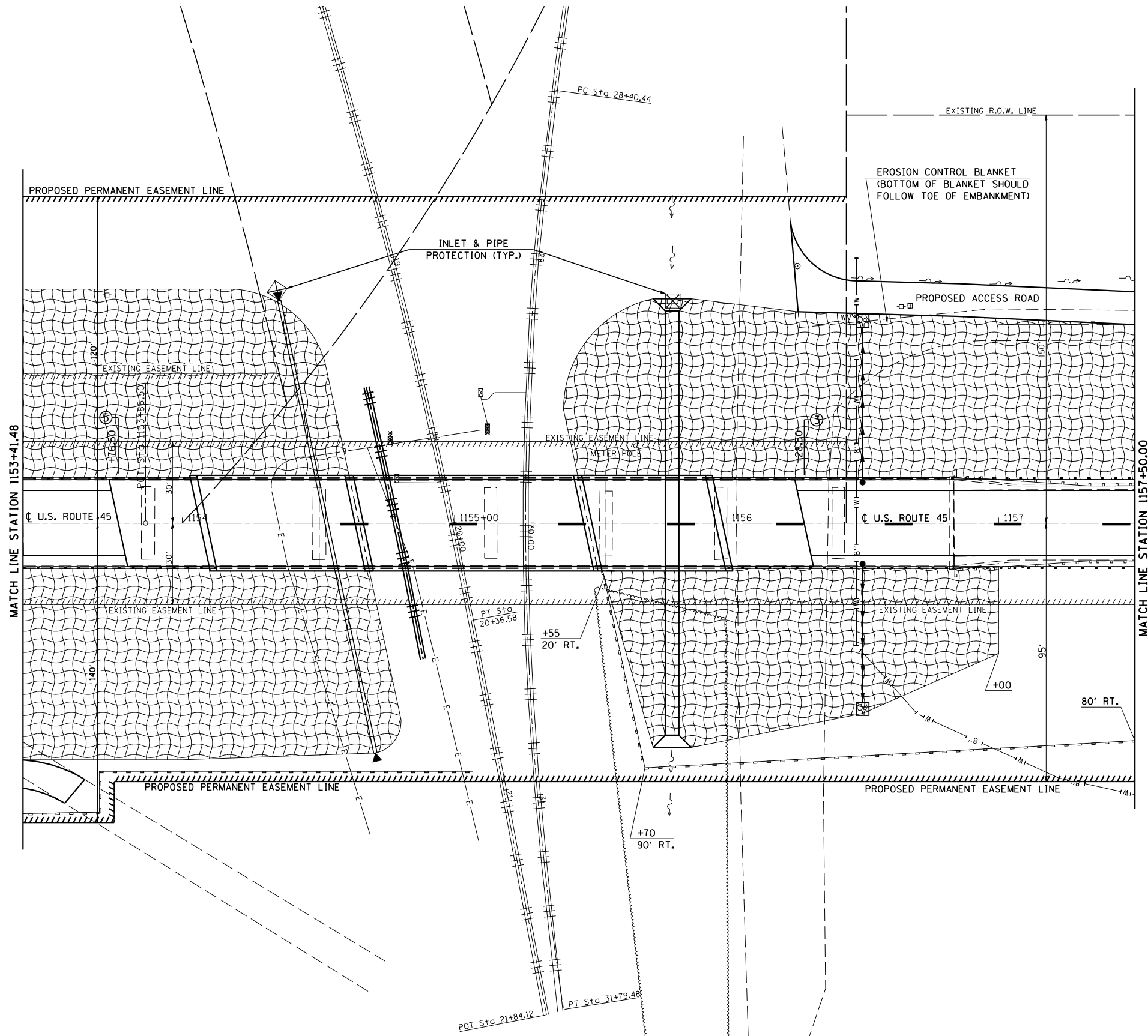
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PLOT SCALE = 1/4" = 1'-0"
USER NAME = crgr

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	50
STA. 1153+41.48		TO STA. 1157+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\144SBR-2 & 22VBR-1\144SBR-2 & 22VBR-1.dgn
 USER NAME = cr@grc

ILLINOIS DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/02/06

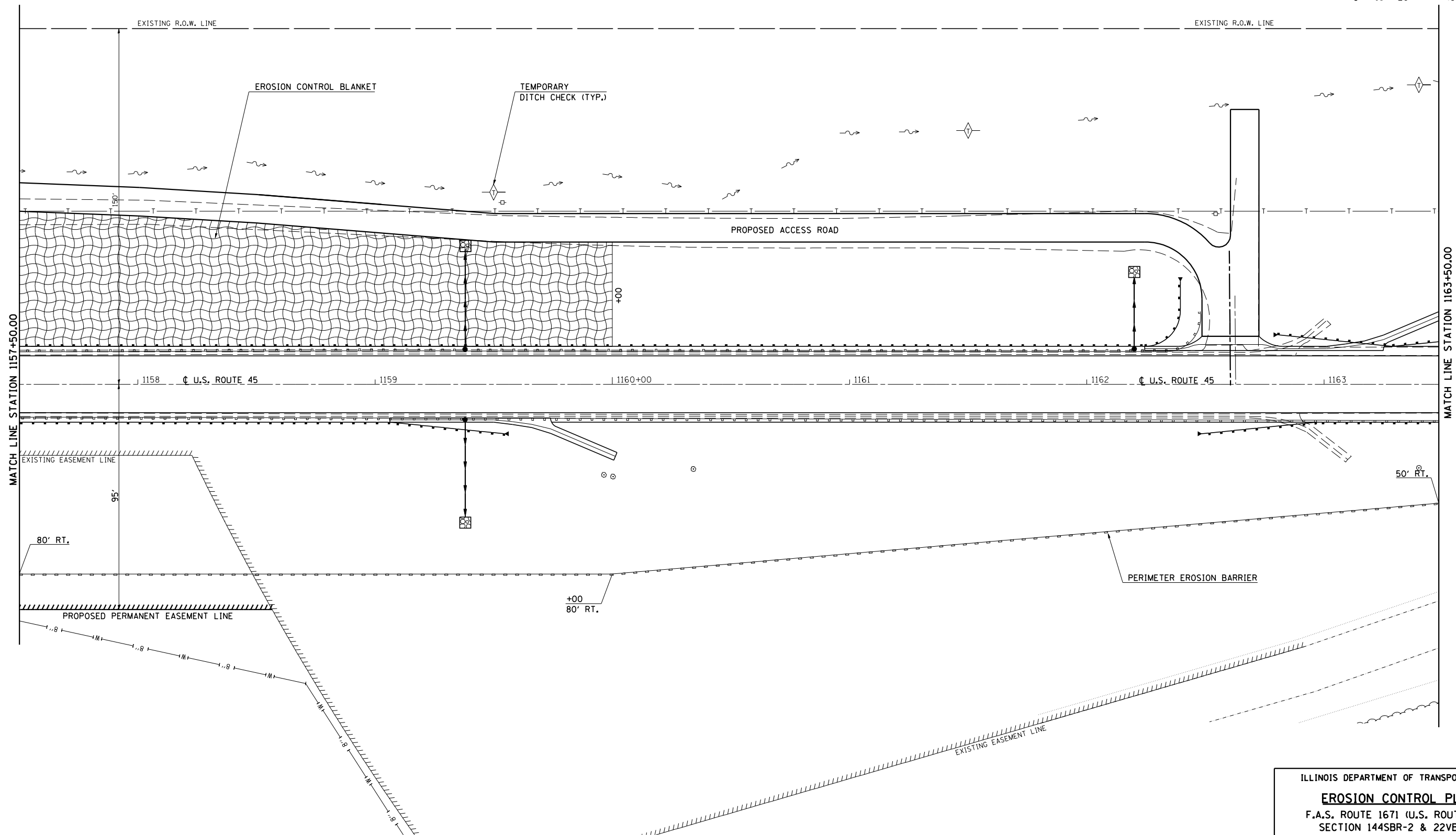
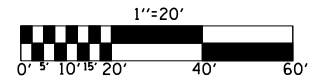
DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

CONTRACT NO. 70258

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	51
STA. 1157+50.00		TO STA. 1163+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\144505202 (v8)\144505202\erosion.dgn
 USER NAME = cr@grg

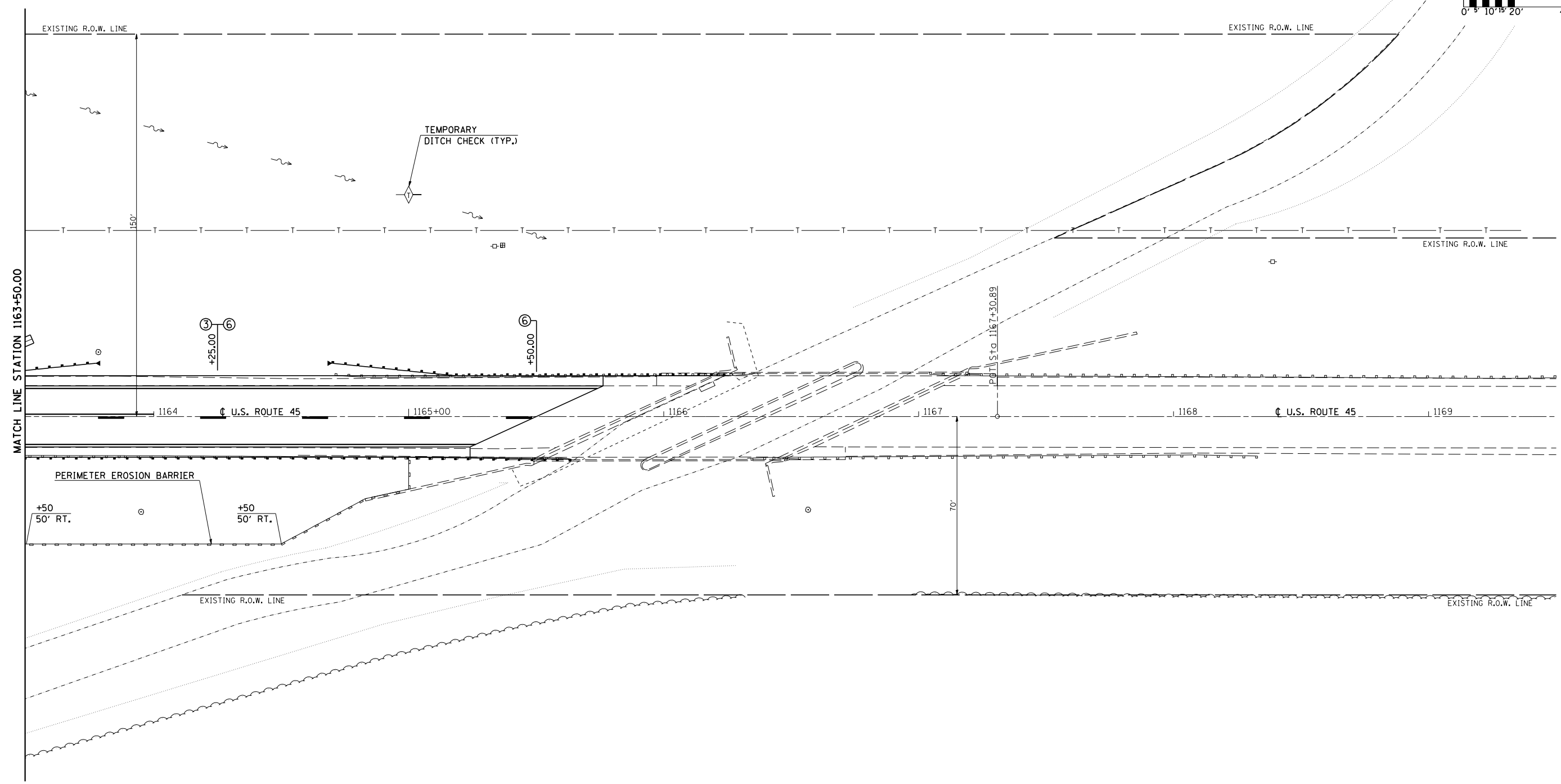
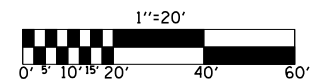
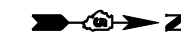
ILLINOIS DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/02/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

CONTRACT NO. 70258				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	52
STA. 1163+50.00		TO STA. 1169+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				



PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\144SBR-2\144SBR-2\1163-1169\1163-1169.dgn
 USER NAME = crdgr

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

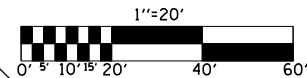
ILLINOIS DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/02/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	53
STA. 1122+00.00		TO STA. 1127+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

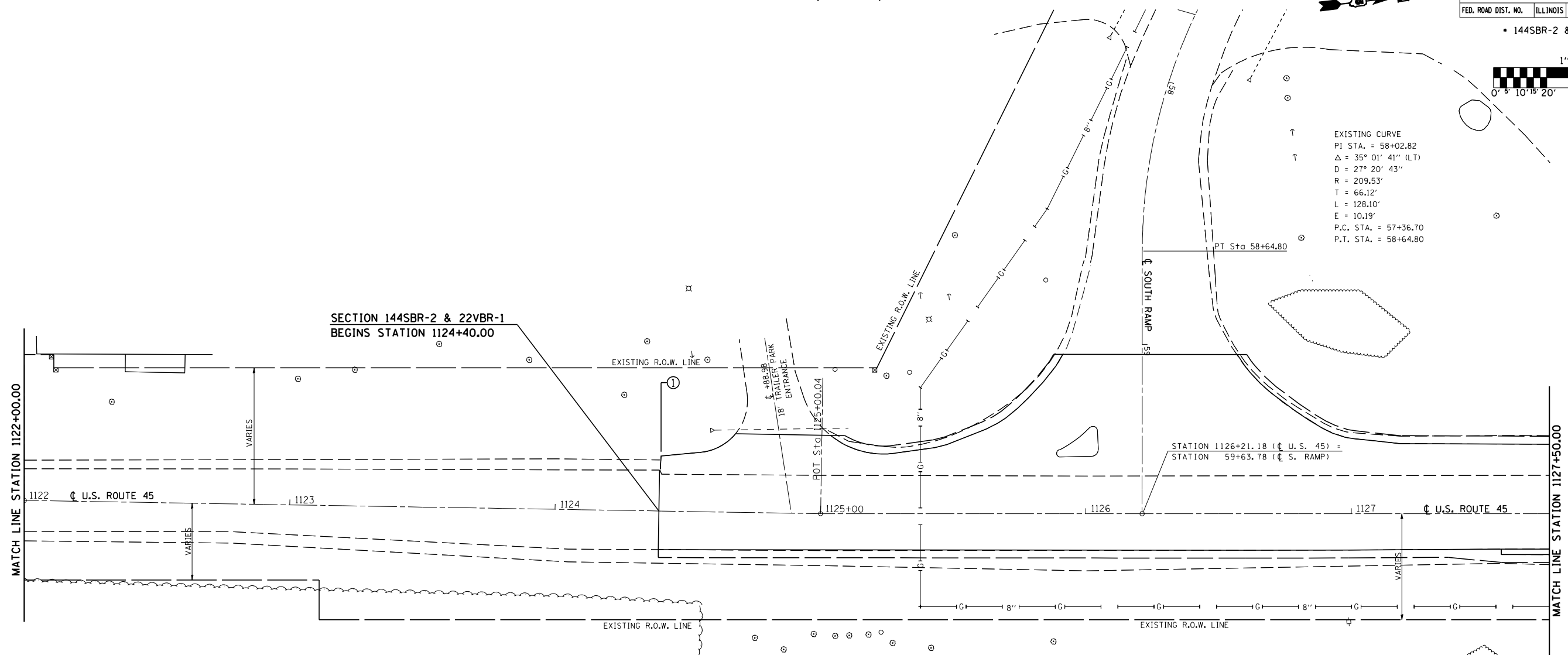
• 144SBR-2 & 22VBR-1



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.



EXISTING CURVE
 PI STA. = 58+02.82
 $\Delta = 35^\circ 01' 41''$ (LT)
 $D = 27^\circ 20' 43''$
 $R = 209.53'$
 $T = 66.12'$
 $L = 128.10'$
 $E = 10.19'$
 P.C. STA. = 57+36.70
 P.T. STA. = 58+64.80



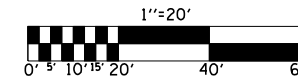
SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
SEEDING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/05/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

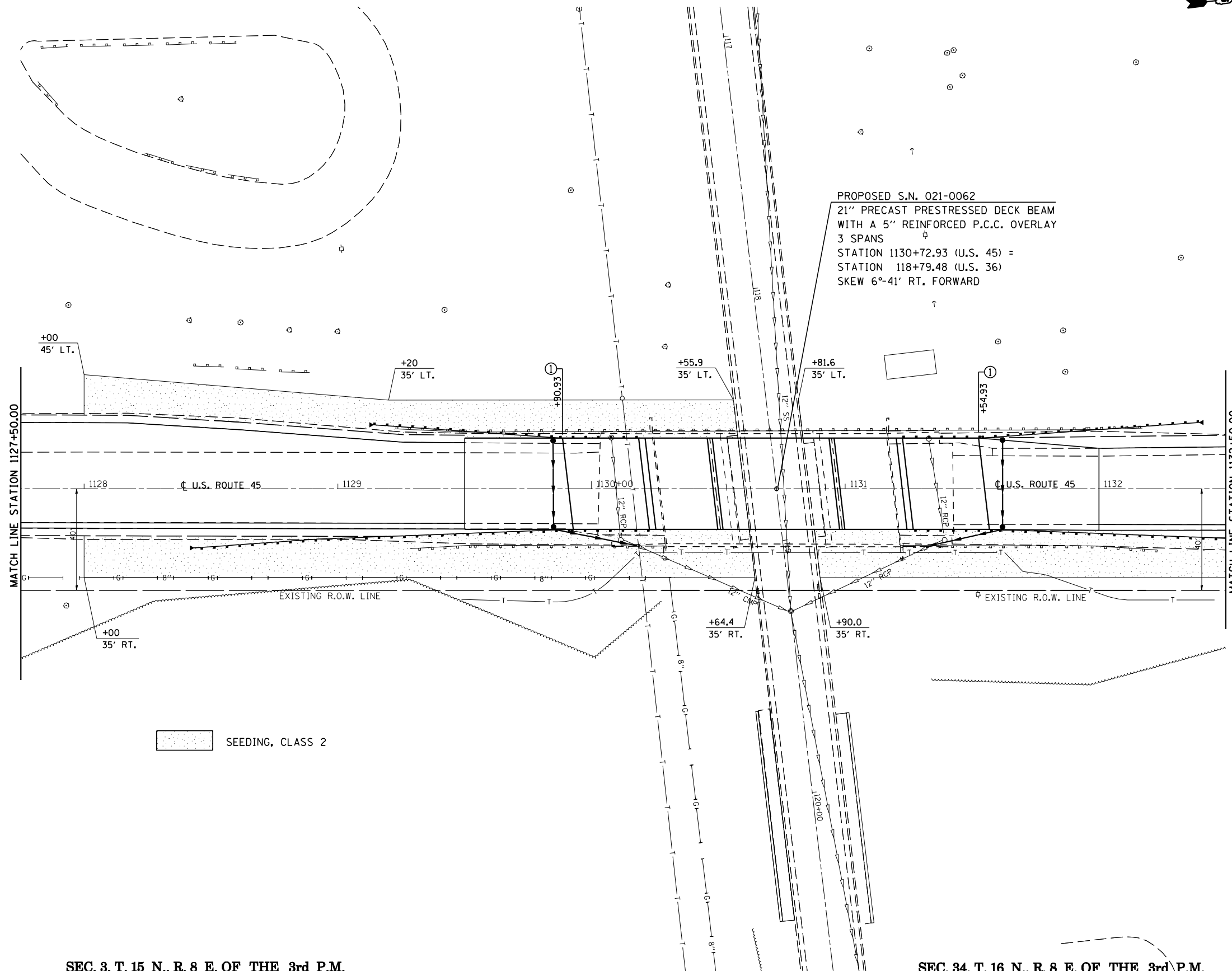
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	54
STA. 1127+75.00		TO STA. 1132+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\144SBR-2\144SBR-2.dgn
 USER NAME = crg

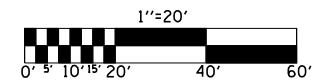
ILLINOIS DEPARTMENT OF TRANSPORTATION
SEEDING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/05/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	55
STA. 1132+50.00		TO STA. 1138+50.57		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

• 144SBR-2 & 22VBR-1

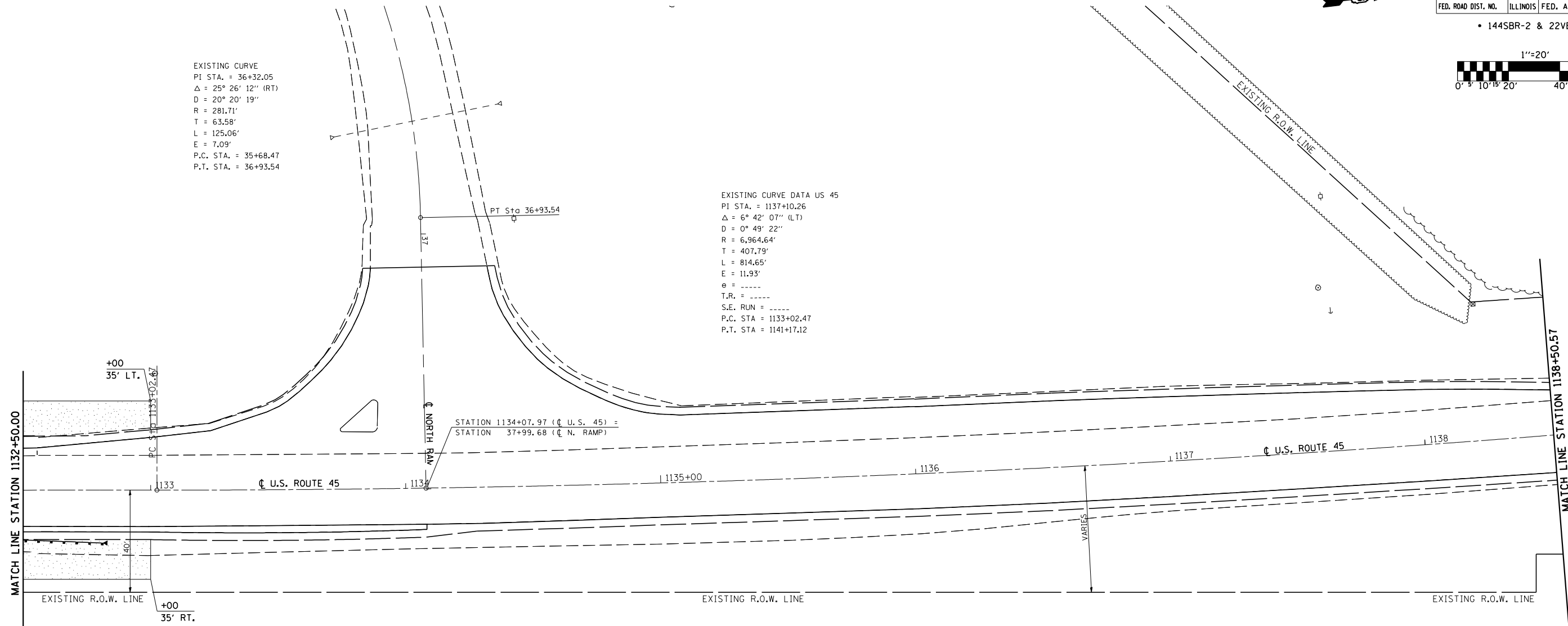


SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

EXISTING CURVE
 PI STA. = 36+32.05
 Δ = 25° 26' 12" (RT)
 D = 20° 20' 19"
 R = 281.71'
 T = 63.58'
 L = 125.06'
 E = 7.09'
 P.C. STA. = 35+68.47
 P.T. STA. = 36+93.54

EXISTING CURVE DATA US 45
 PI STA. = 1137+10.26
 Δ = 6° 42' 07" (LT)
 D = 0° 49' 22"
 R = 6,964.64'
 T = 407.79'
 L = 814.65'
 E = 11.93'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 1133+02.47
 P.T. STA = 1141+17.12

STATION 1134+07.97 (C U.S. 45) =
 STATION 37+99.68 (C N. RAMP)



SEEDING, CLASS 2

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

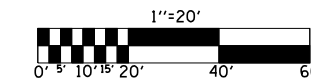
ILLINOIS DEPARTMENT OF TRANSPORTATION
SEEDING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/05/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

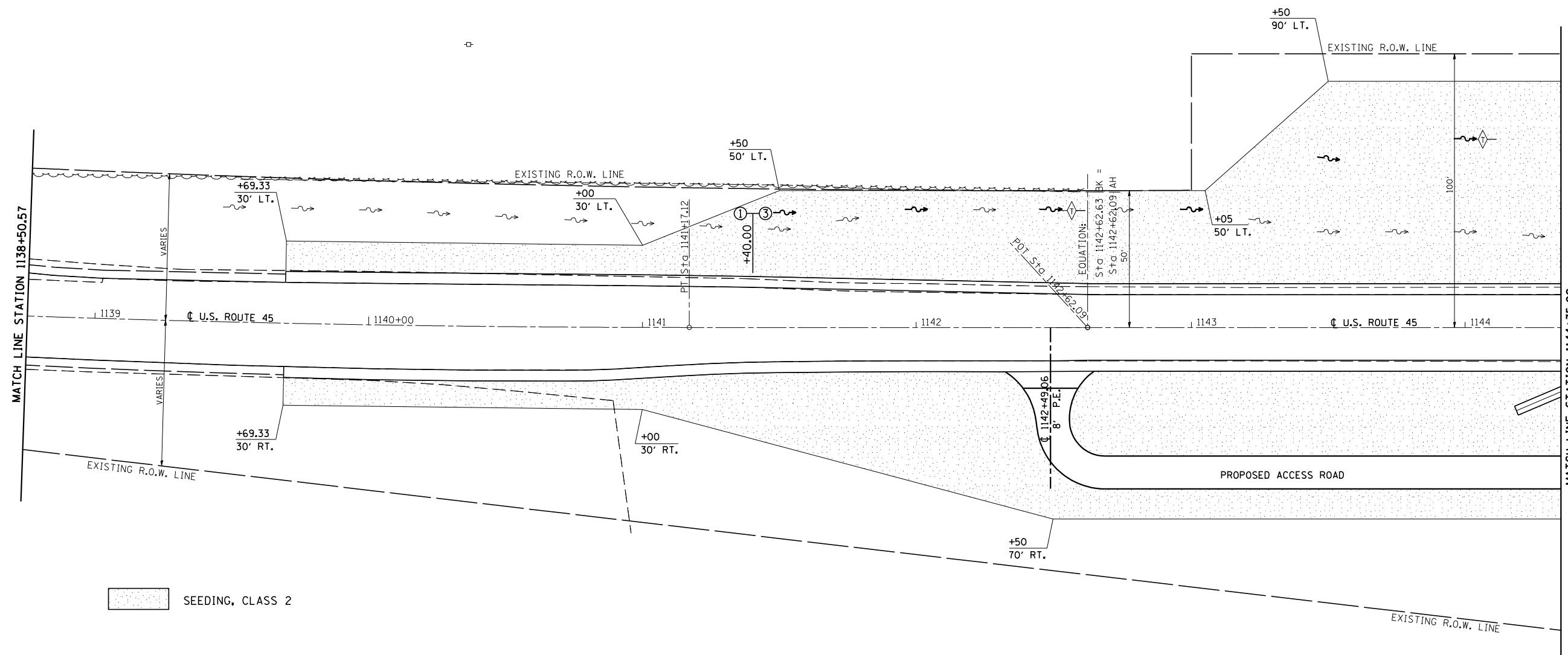
PLOT DATE = 7/10/2006
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 USER NAME = cr.gre

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	56
STA. 1138+50.57		TO STA. 1144+35.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEEDING, CLASS 2

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SEEDING PLAN

F.A.S. 1671 (U.S. ROUTE 45)
SECTION 144SBR-2 & 22VBR-1
DOUGLAS COUNTY

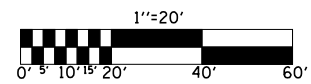
SCALE: 1" = 20'-0"
DATE: 06/05/06

DRAWN BY: B.B.P.
CHECKED BY: C.R.G.

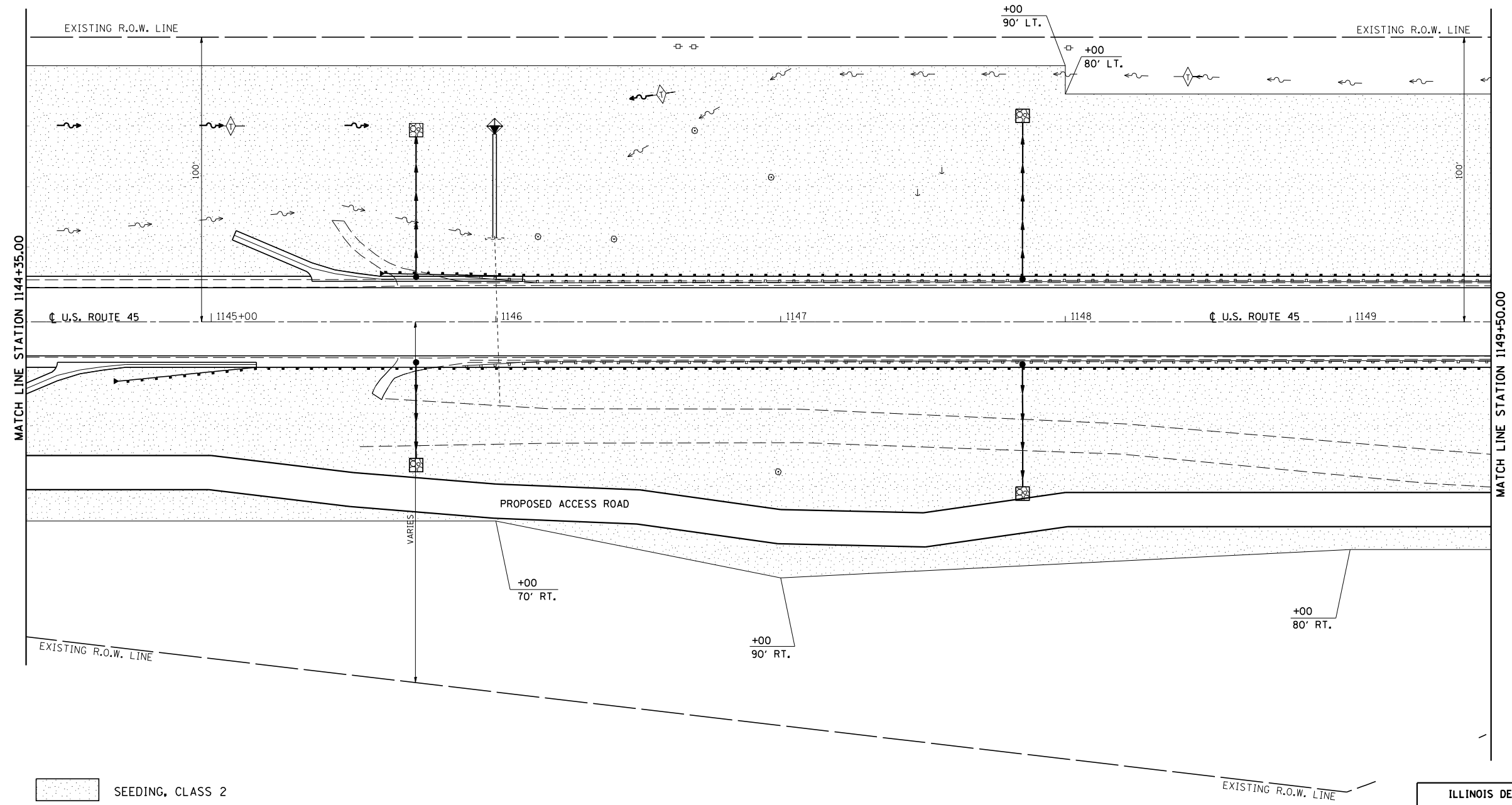
PLOT DATE = 7/10/2006
FILE NAME = c:\projects\144SBR-2 & 22VBR-1\144SBR-2 & 22VBR-1.dgn
USER NAME = crg

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	57
STA. 1144+35.00		TO STA. 1149+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEEDING, CLASS 2

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

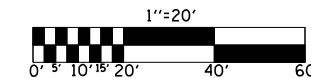
ILLINOIS DEPARTMENT OF TRANSPORTATION
SEEDING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/05/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

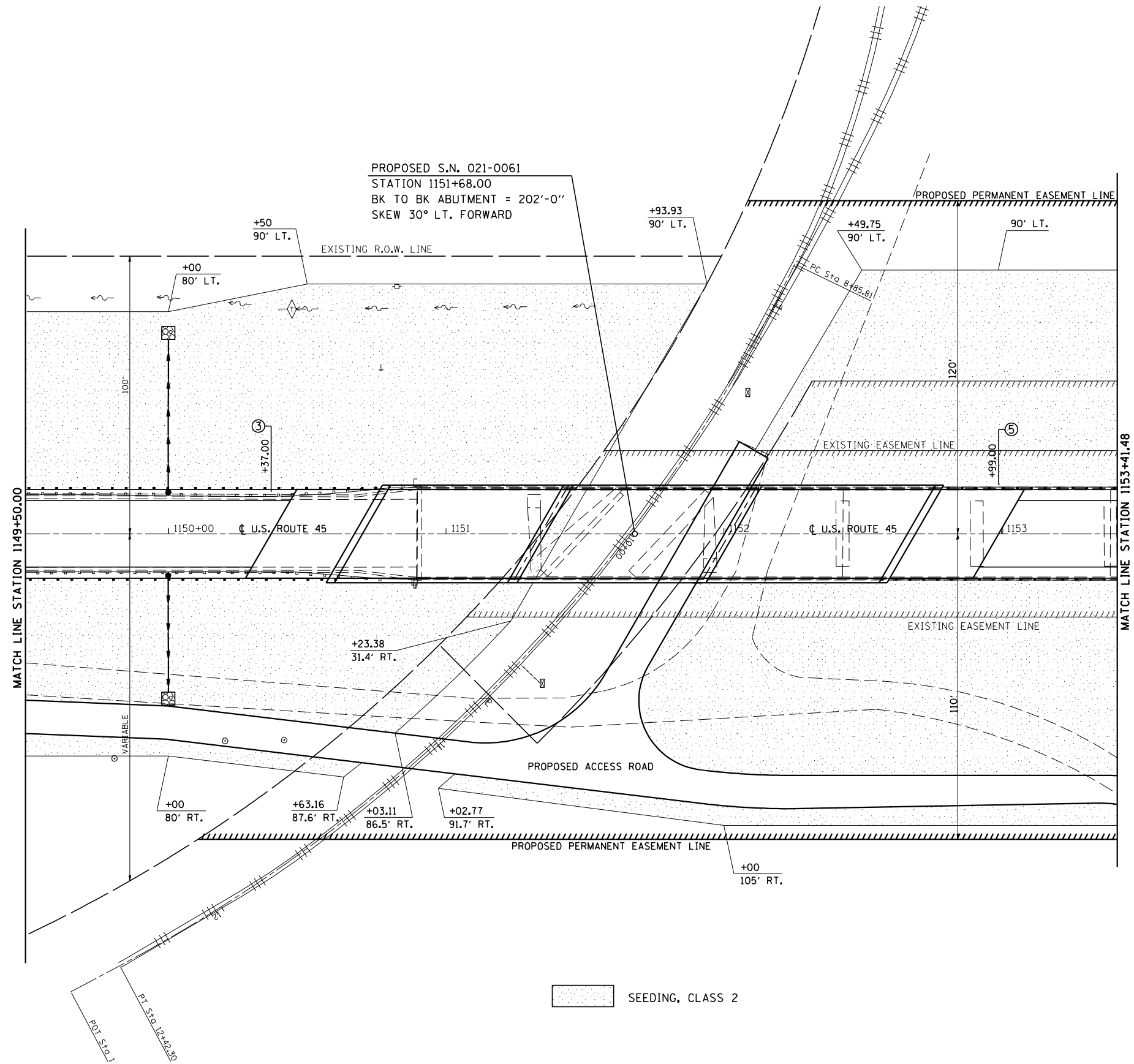
PLOT DATE = 7/10/2006
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 USER NAME = crgrg

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	58
STA. 1149+50.00		TO STA. 1153+41.48		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

SEEDING, CLASS 2

PLOT DATE = 7/10/2006
 FILE NAME = c:\projects\144SBR-2 & 22VBR-1\144SBR-2 & 22VBR-1.dgn
 USER NAME = crg

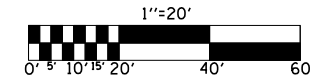
ILLINOIS DEPARTMENT OF TRANSPORTATION
SEEDING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/05/06

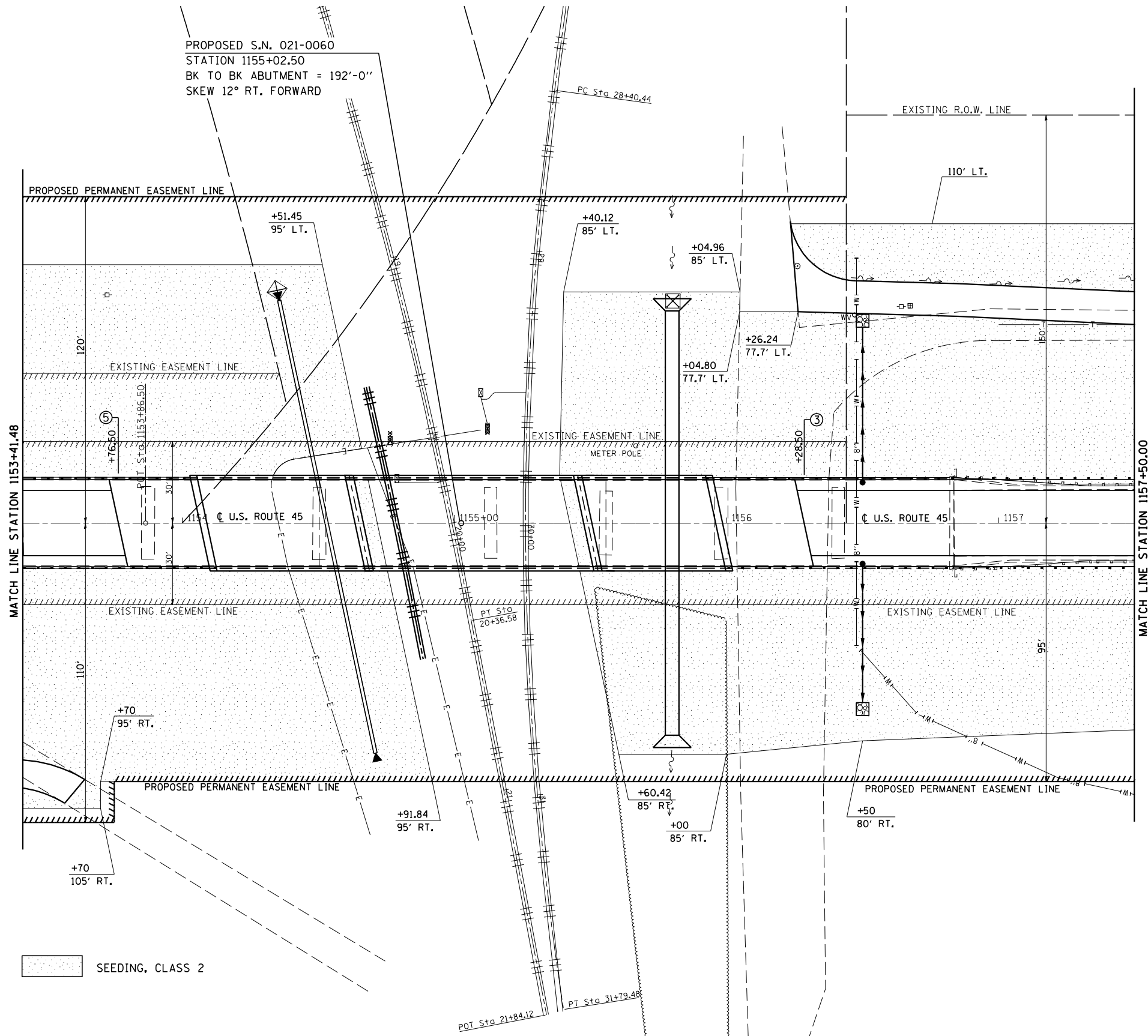
DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	59
STA. 1153+41.48		TO STA. 1157+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

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SEEDING, CLASS 2

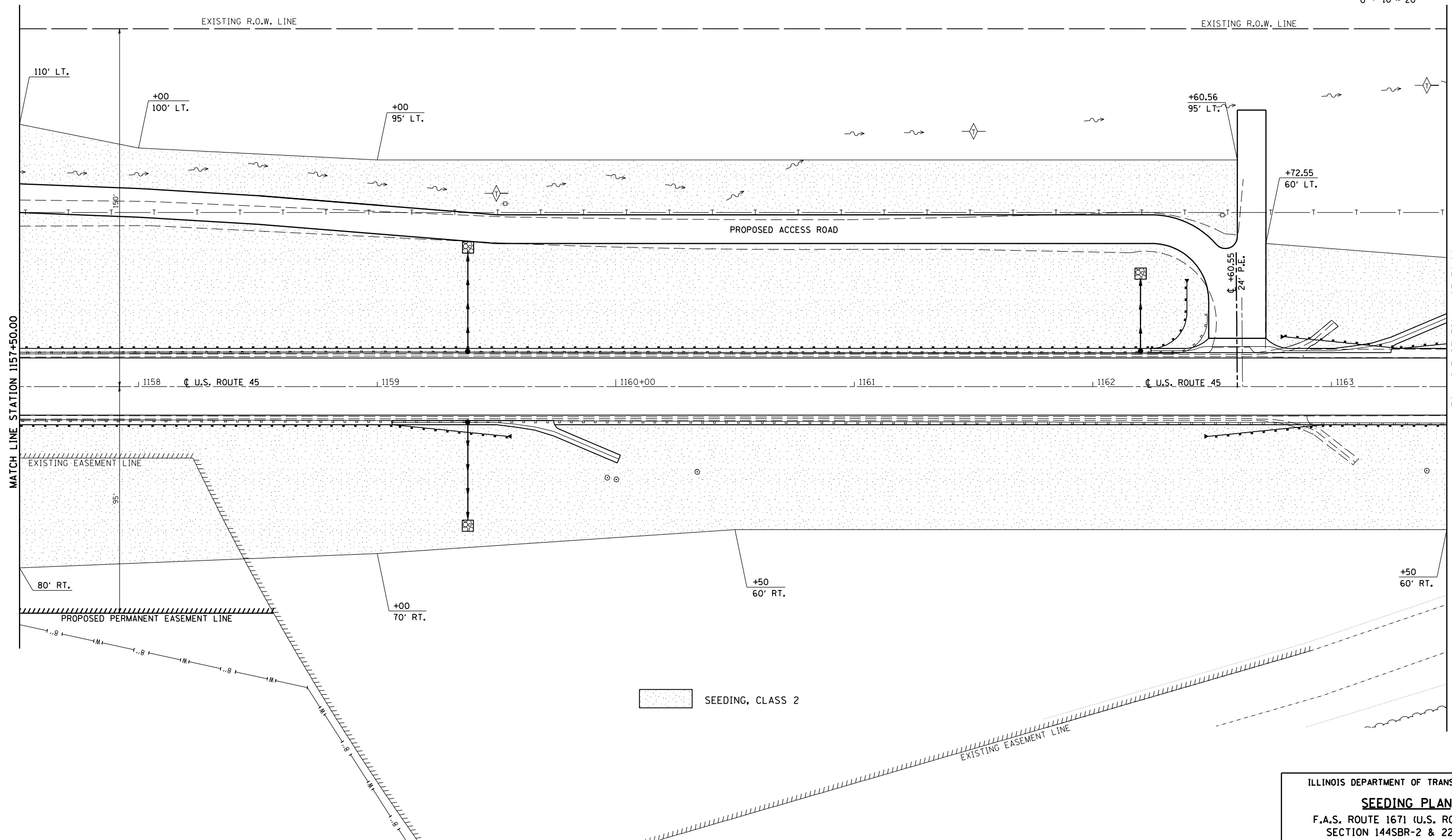
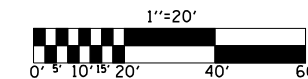
ILLINOIS DEPARTMENT OF TRANSPORTATION
SEEDING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/05/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	60
STA. 1157+50.00		TO STA. 1163+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 144SBR-2 & 22VBR-1				



SEEDING, CLASS 2

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

PLOT DATE = 7/10/2006
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 USER NAME = cr@grg

ILLINOIS DEPARTMENT OF TRANSPORTATION
SEEDING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

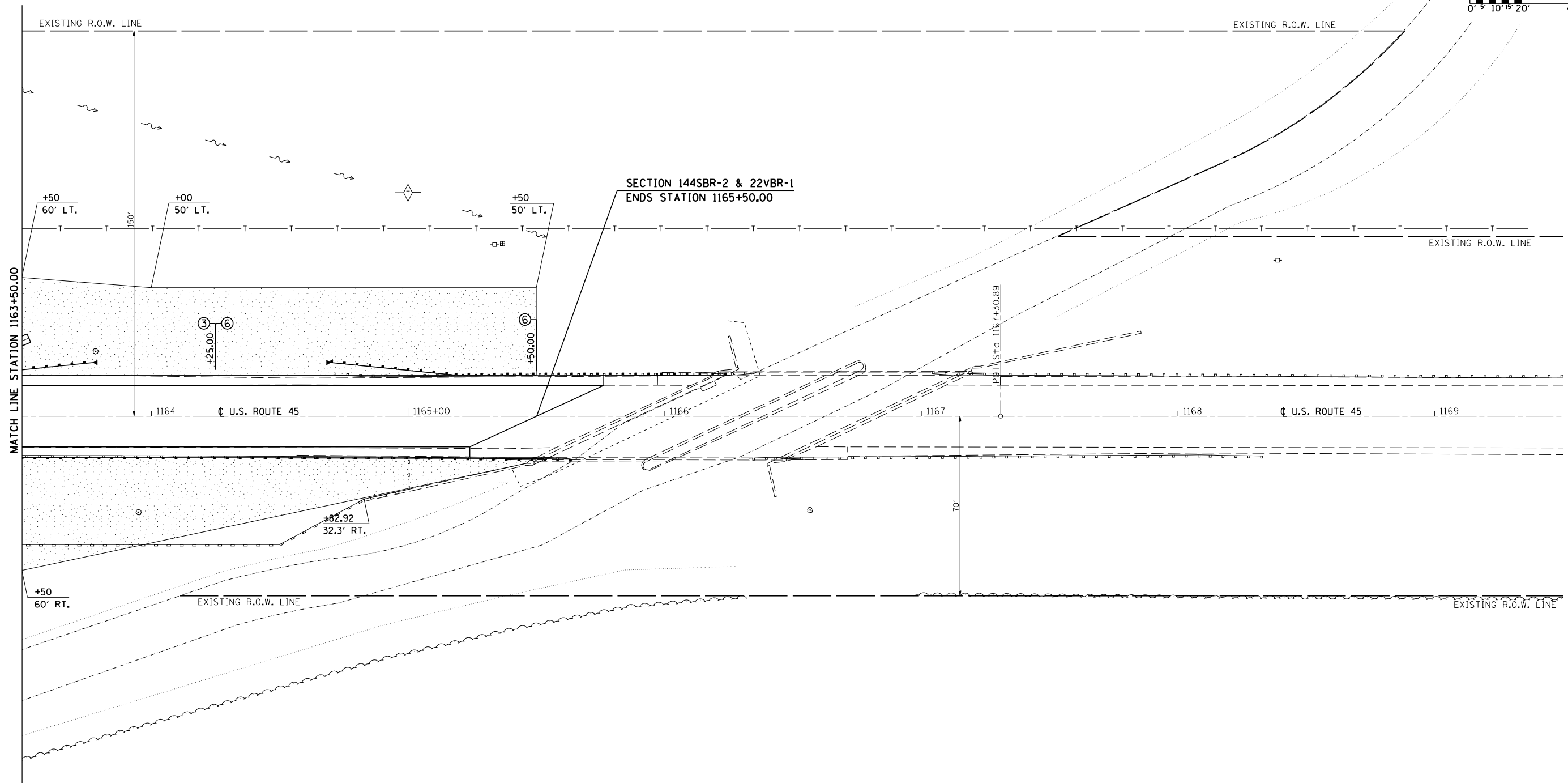
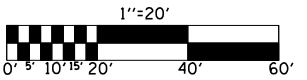
SCALE: 1" = 20'-0"
 DATE: 06/05/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

CONTRACT NO. 70258				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	61
STA. 1163+50.00		TO STA. 1169+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



 SEEDING, CLASS 2

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

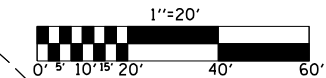
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ILLINOIS DEPARTMENT OF TRANSPORTATION
SEEDING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/05/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	62
STA. 1122+00.00		TO STA. 1127+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

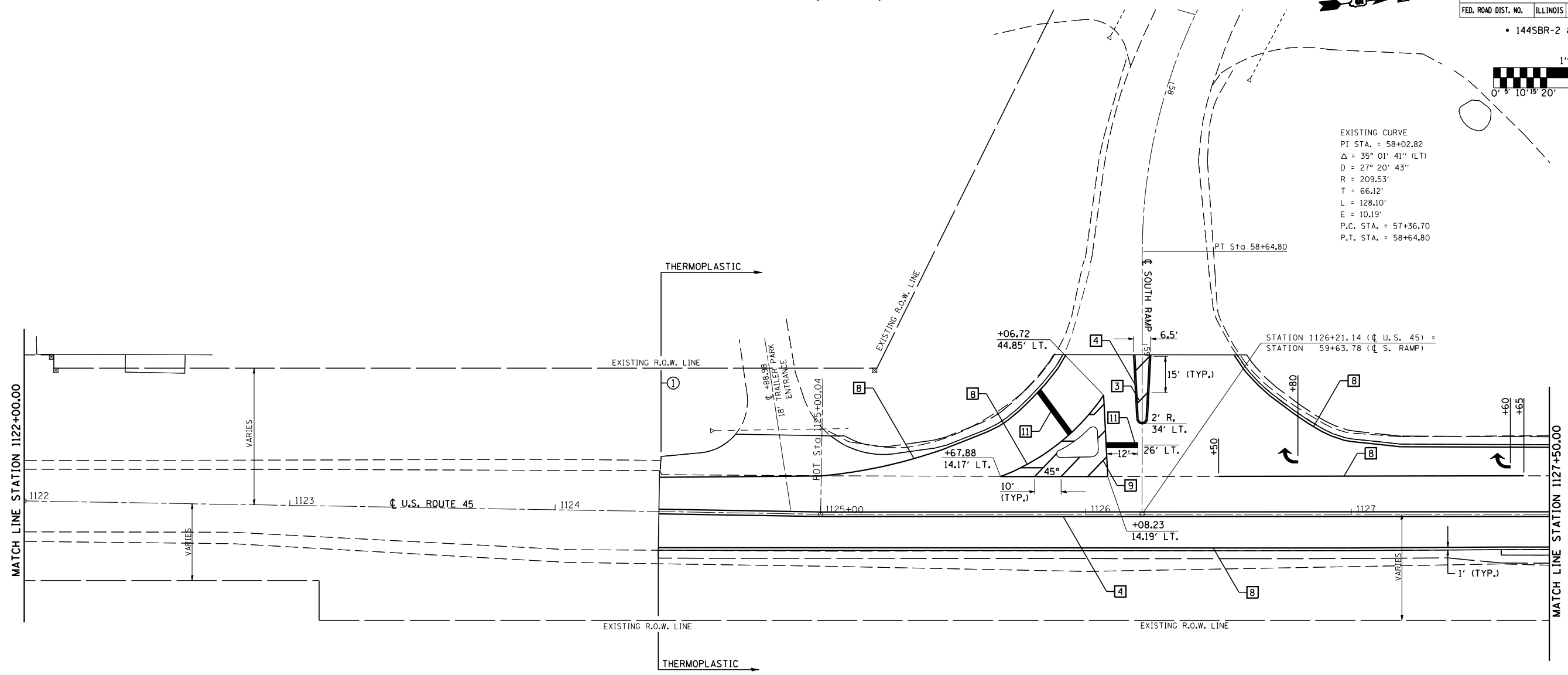
• 144SBR-2 & 22VBR-1



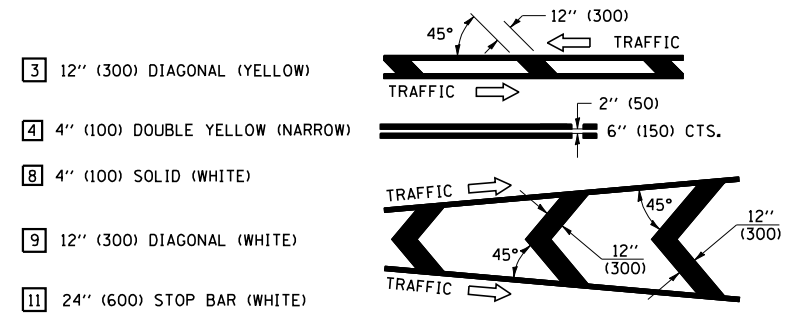
SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.



EXISTING CURVE
 PI STA. = 58+02.82
 Δ = 35° 01' 41" (LT)
 D = 27° 20' 43"
 R = 209.53'
 T = 66.12'
 L = 128.10'
 E = 10.19'
 P.C. STA. = 57+36.70
 P.T. STA. = 58+64.80



TYPICAL PAVEMENT MARKING LEGEND



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

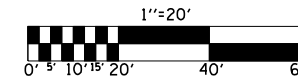
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 CHECKED BY: C.R.G.

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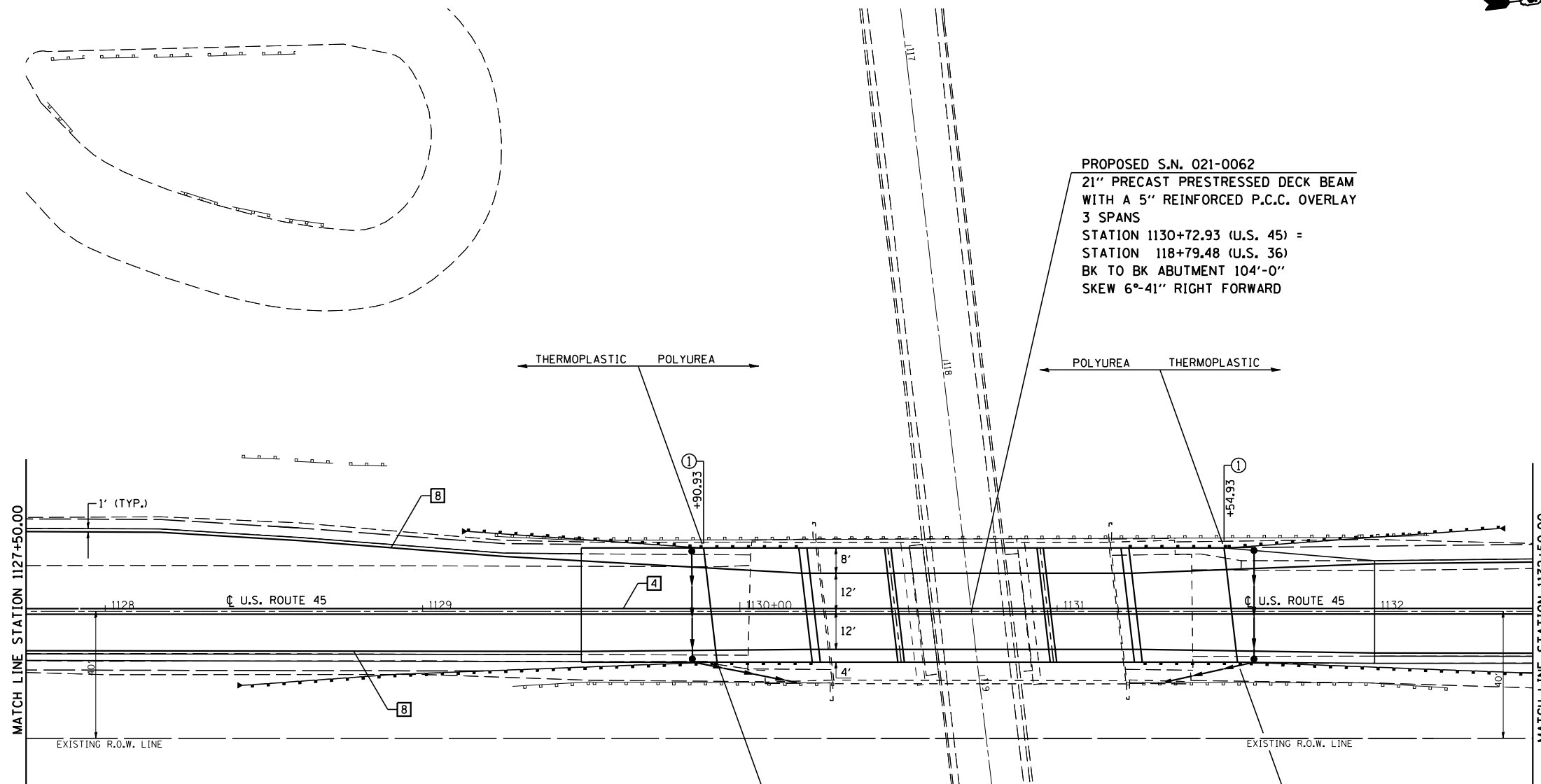
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	*	DOUGLAS	181	63
STA. 1127+75.00		TO STA. 1132+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



TYPICAL PAVEMENT MARKING LEGEND

- 4 4" (100) DOUBLE YELLOW (NARROW) 2" (50) 6" (150) CTS.
- 8 4" (100) SOLID (WHITE)

SEC. 3, T. 15 N., R. 8 E. OF THE 3rd P.M.

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

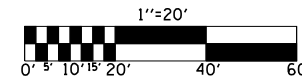
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 CHECKED BY: C.R.G.

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	64
STA. 1132+50.00		TO STA. 1138+50.57		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

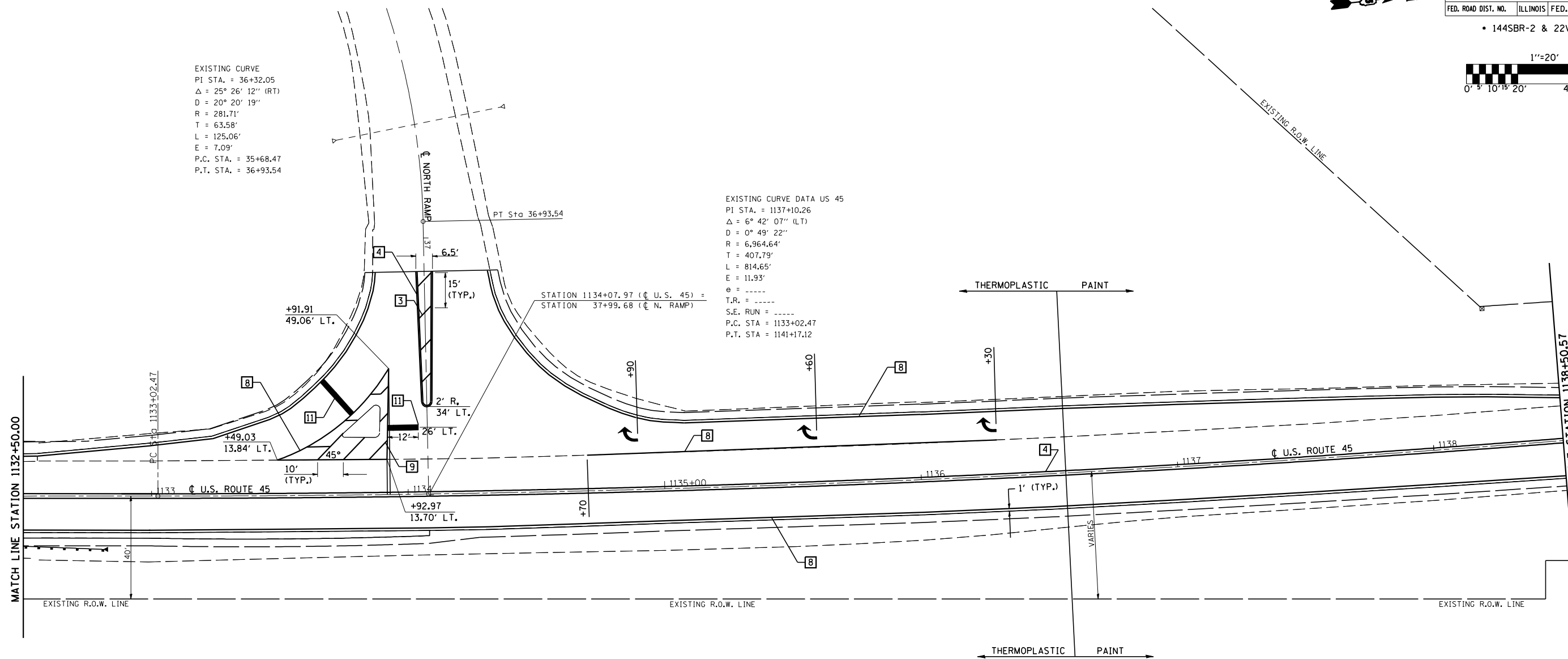
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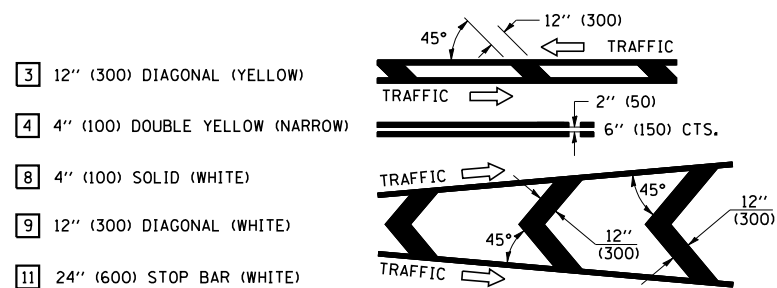
SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

EXISTING CURVE
 PI STA. = 36+32.05
 Δ = 25° 26' 12" (RT)
 D = 20° 20' 19"
 R = 281.71'
 T = 63.58'
 L = 125.06'
 E = 7.09'
 P.C. STA. = 35+68.47
 P.T. STA. = 36+93.54

EXISTING CURVE DATA US 45
 PI STA. = 1137+10.26
 Δ = 6° 42' 07" (LT)
 D = 0° 49' 22"
 R = 6,964.64'
 T = 407.79'
 L = 814.65'
 E = 11.93'
 e =
 T.R. =
 S.E. RUN =
 P.C. STA. = 1133+02.47
 P.T. STA. = 1141+17.12



TYPICAL PAVEMENT MARKING LEGEND



SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

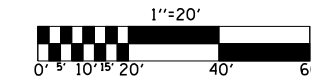
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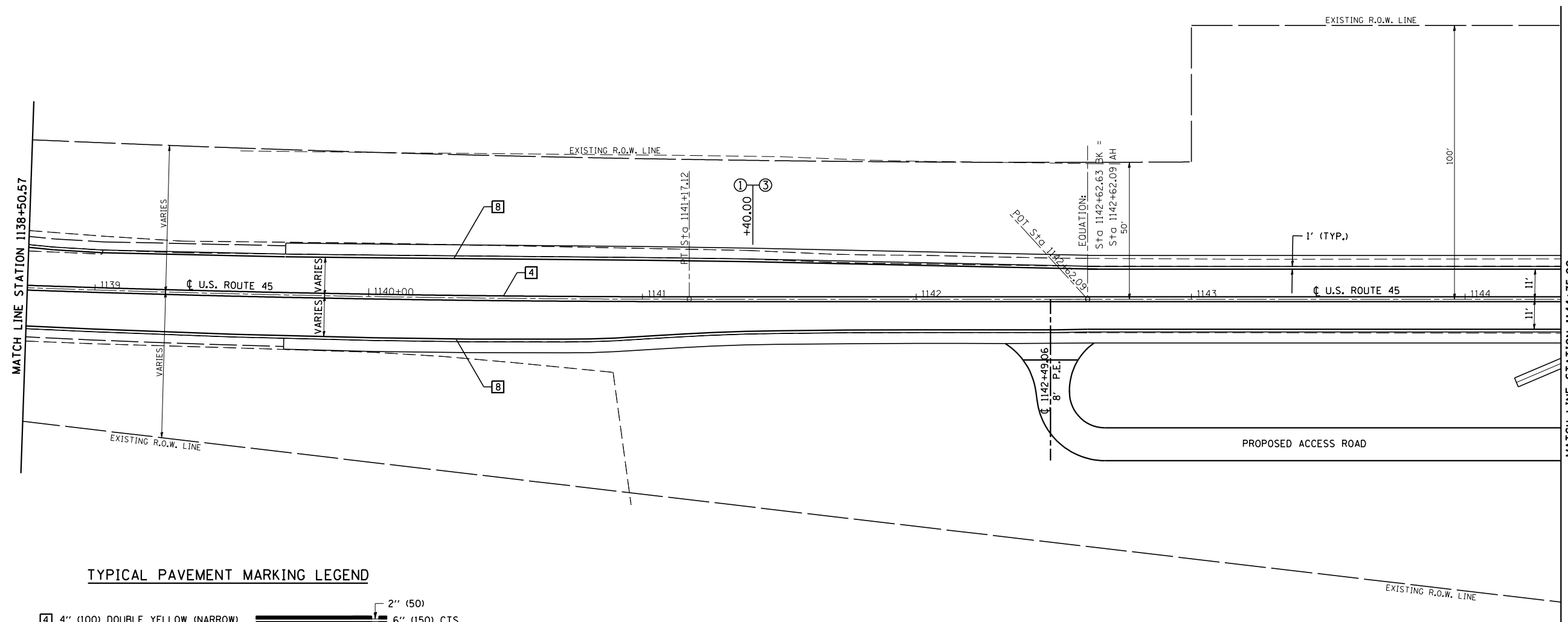
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 USER NAME = pier.sombir

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	65
STA. 1138+50.57		TO STA. 1144+35.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



TYPICAL PAVEMENT MARKING LEGEND

- 4 4" (100) DOUBLE YELLOW (NARROW) 2" (50) 6" (150) CTS.
- 8 4" (100) SOLID (WHITE)

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

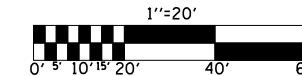
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 CHECKED BY: C.R.G.

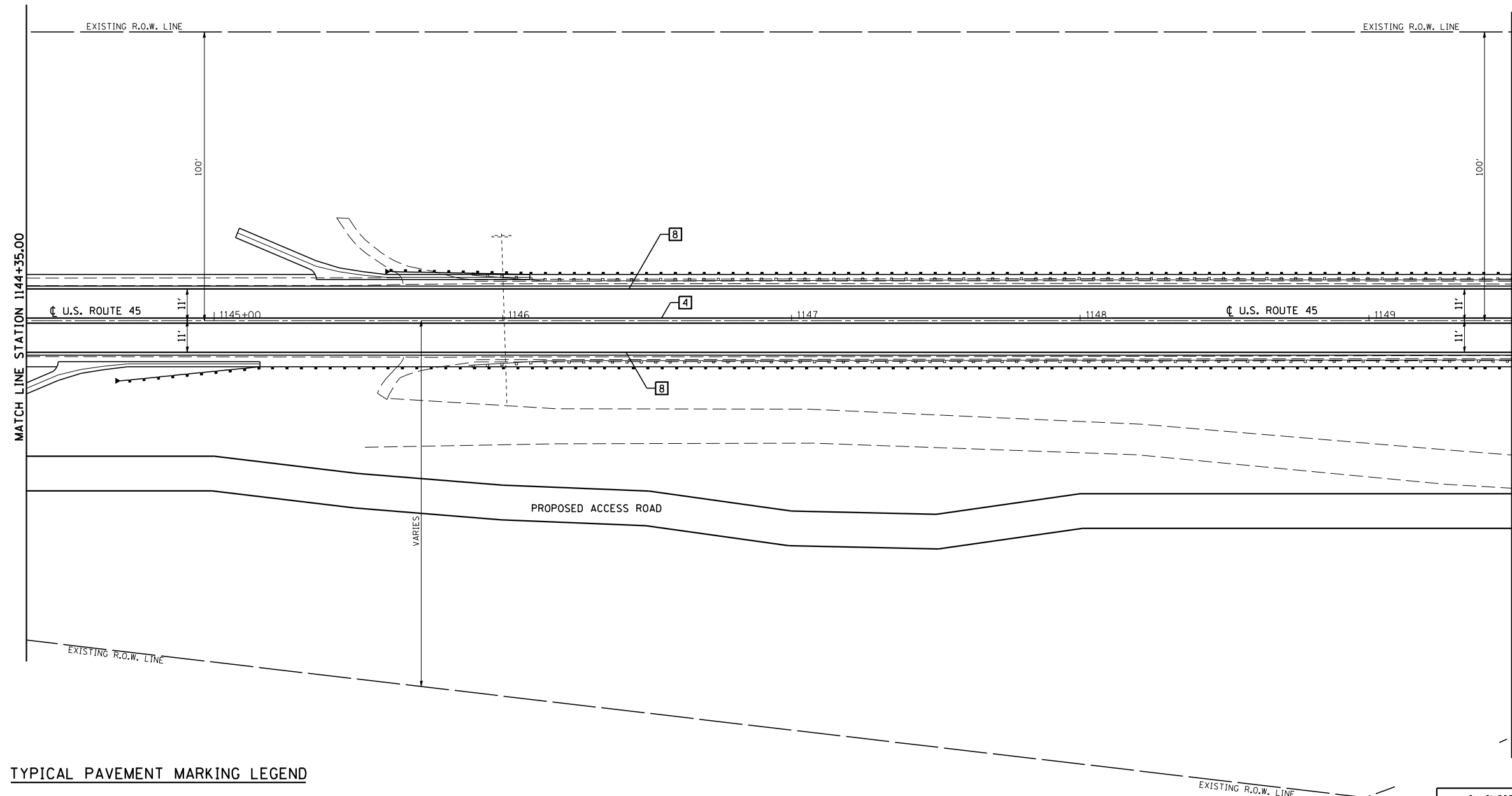
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	66
STA. 1144+35.00		TO STA. 1149+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



TYPICAL PAVEMENT MARKING LEGEND

- 4 4" (100) DOUBLE YELLOW (NARROW) 2" (50) / 6" (150) CTS.
- 8 4" (100) SOLID (WHITE)

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

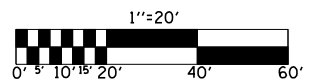
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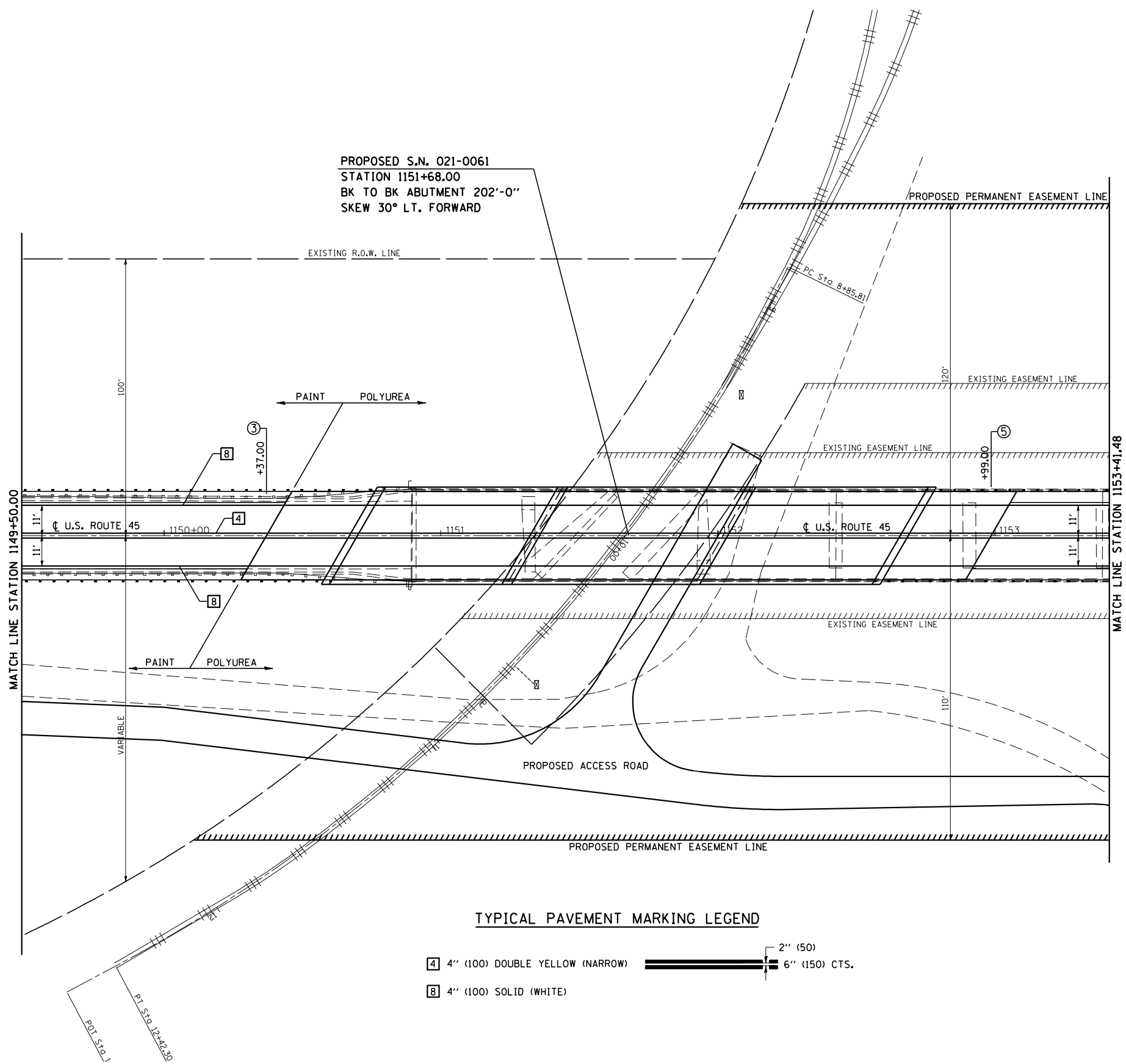
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1571	.	DOUGLAS	181	67
STA. 1149+50.00		TO STA. 1153+41.48		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



TYPICAL PAVEMENT MARKING LEGEND

- [4] 4" (100) DOUBLE YELLOW (NARROW) 2" (50) 6" (150) CTS.
- [8] 4" (100) SOLID (WHITE)

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

PLOT DATE = 7/10/2006
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ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

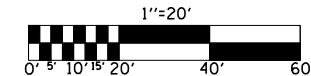
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 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

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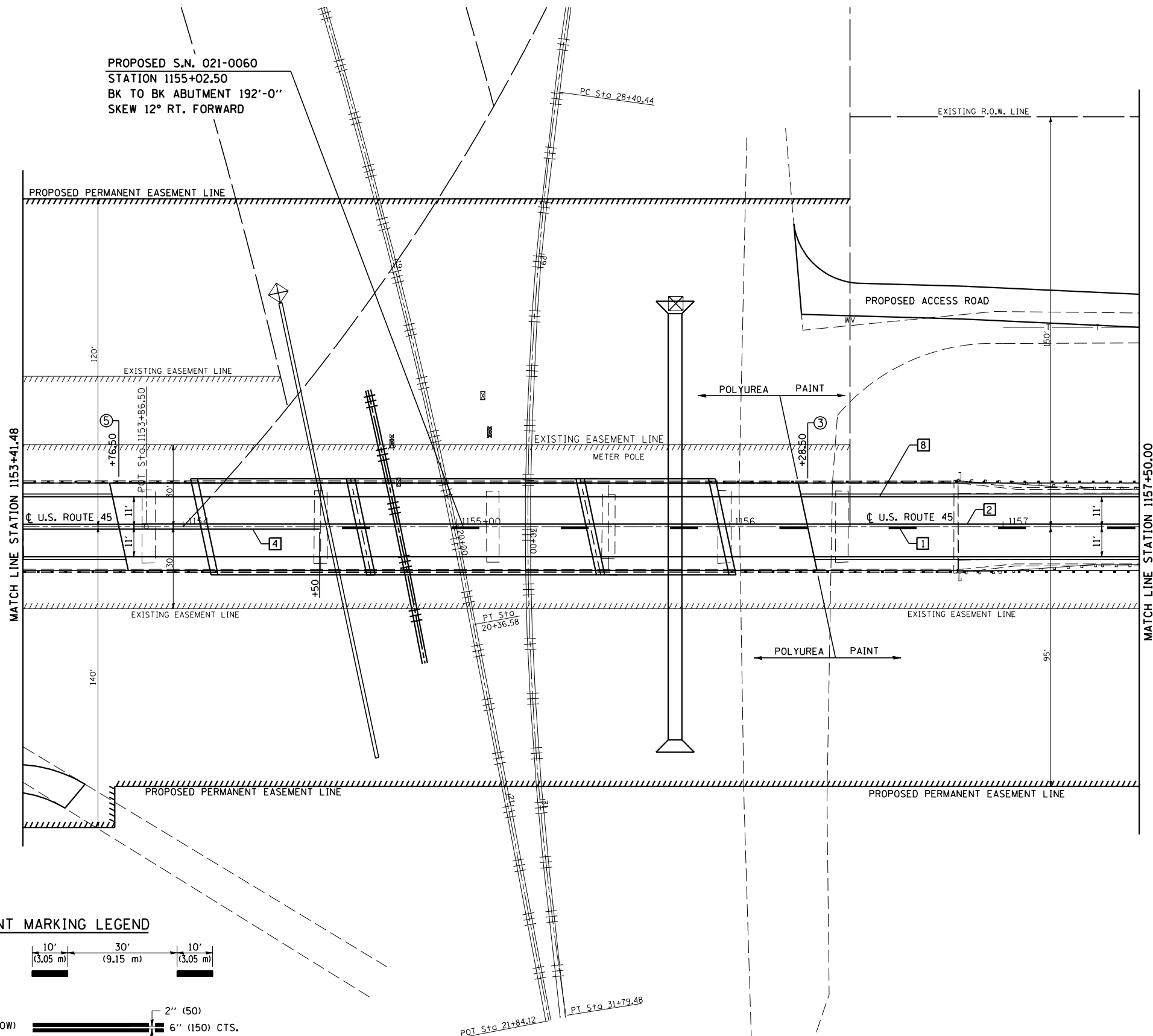
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 CHECKED BY: C.R.G.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	68
STA. 1153+41.48		TO STA. 1157+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.



TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 8 4" (100) SOLID (WHITE)

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/08/06
 DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

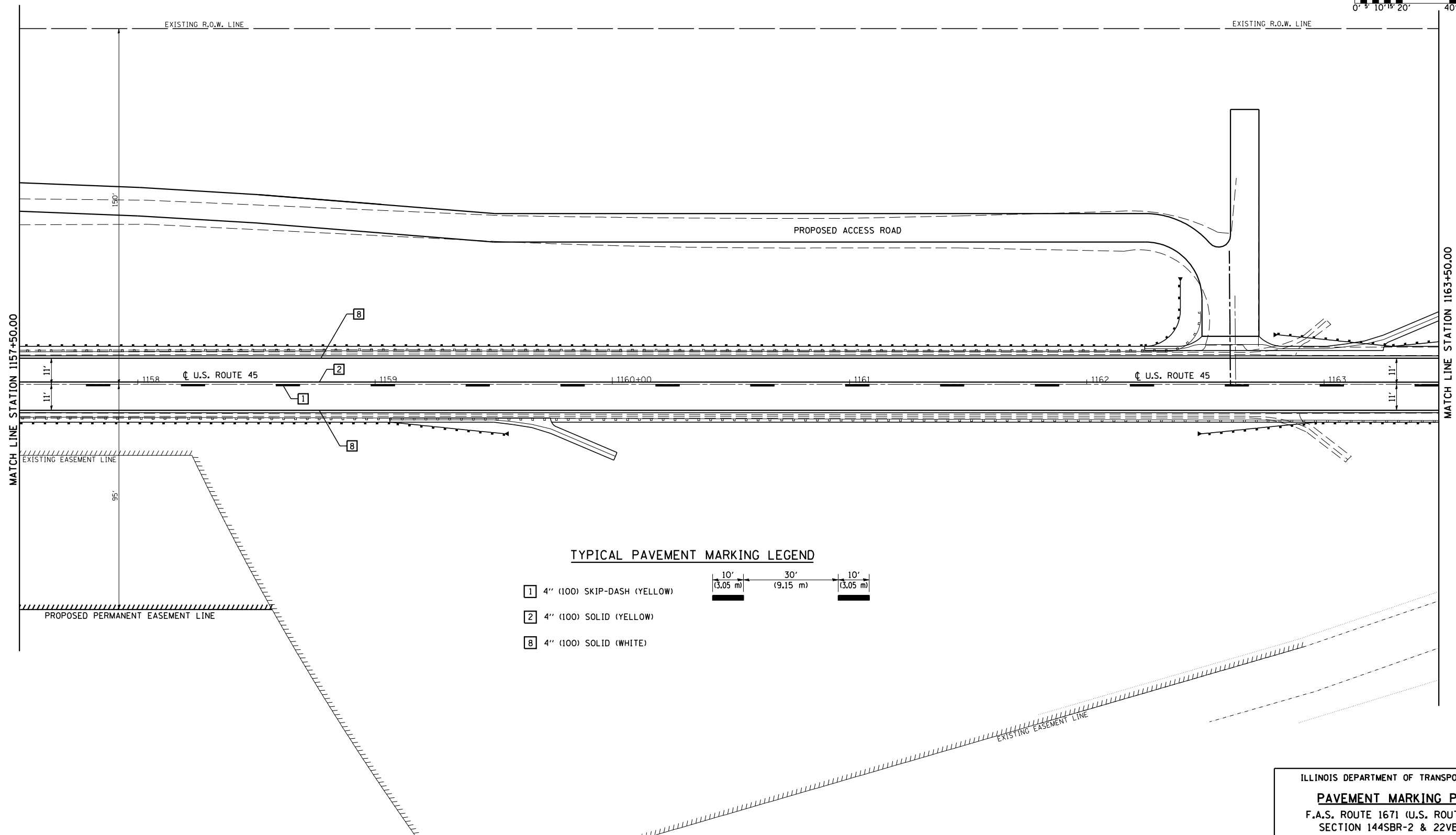
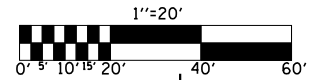
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 PLOT SCALE = 1/4" = 1' / IN.
 USER NAME = pier.sombir

SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

CONTRACT NO. 70258

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	69
STA. 1157+50.00		TO STA. 1163+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 8 4" (100) SOLID (WHITE)

PLOT DATE = 7/10/2006
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 USER NAME = pier.sombir

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/08/06

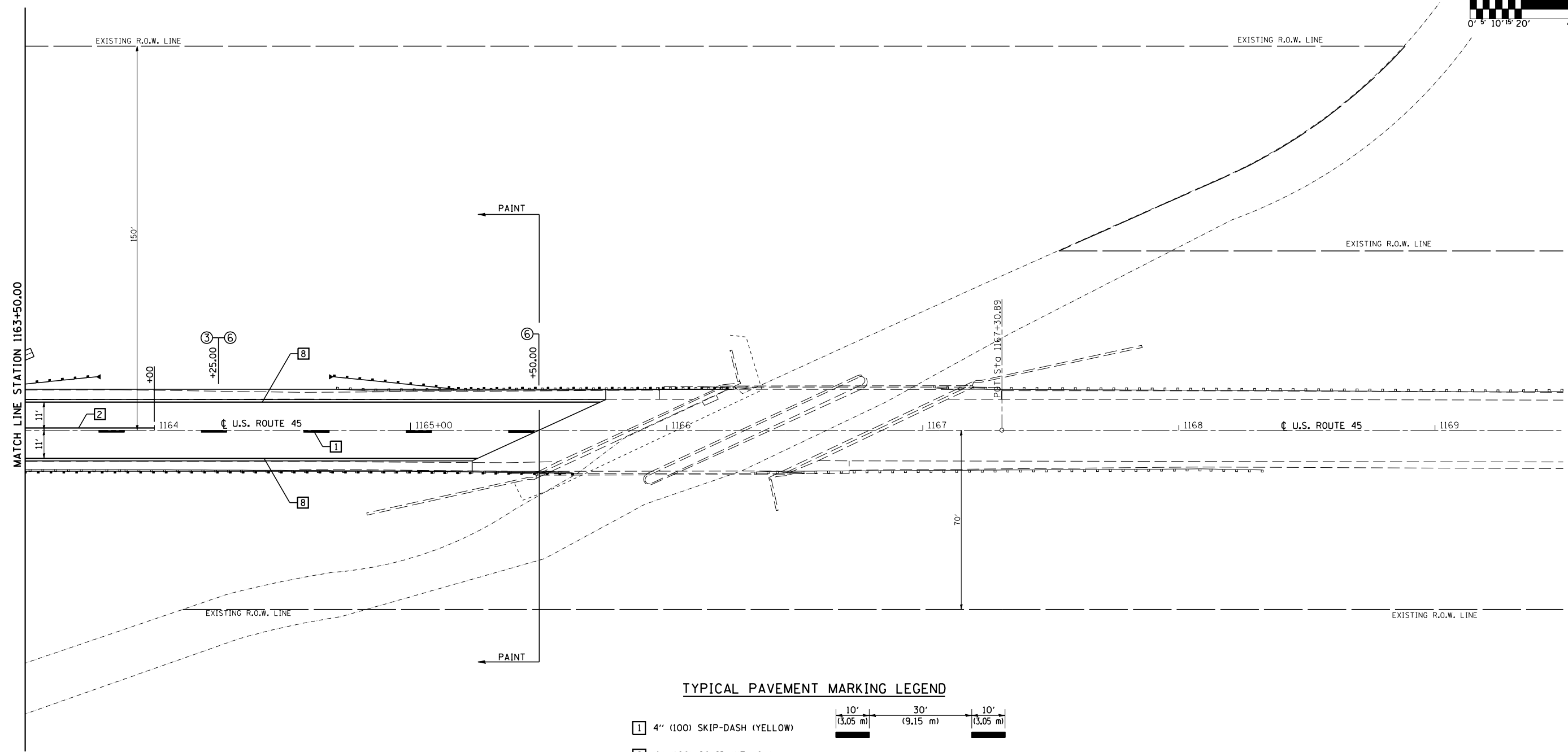
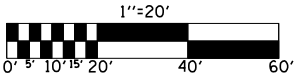
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SEC. 33, T. 16 N., R. 8 E. OF THE 3rd P.M.

CONTRACT NO. 70258

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1671	.	DOUGLAS	181	70
STA. 1163+50.00		TO STA. 1169+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 144SBR-2 & 22VBR-1



TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 8 4" (100) SOLID (WHITE)

PLOT DATE = 7/10/2006
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 USER NAME = pier.sombir

SEC. 34, T. 16 N., R. 8 E. OF THE 3rd P.M.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 F.A.S. ROUTE 1671 (U.S. ROUTE 45)
 SECTION 144SBR-2 & 22VBR-1
 DOUGLAS COUNTY

SCALE: 1" = 20'-0"
 DATE: 06/08/06

DRAWN BY: B.B.P.
 CHECKED BY: C.R.G.

Bench Mark: Chiseled square on top of the northwest wingwall, 18.81' left @ Sta. 1131+16.98. Elevation = 656.32

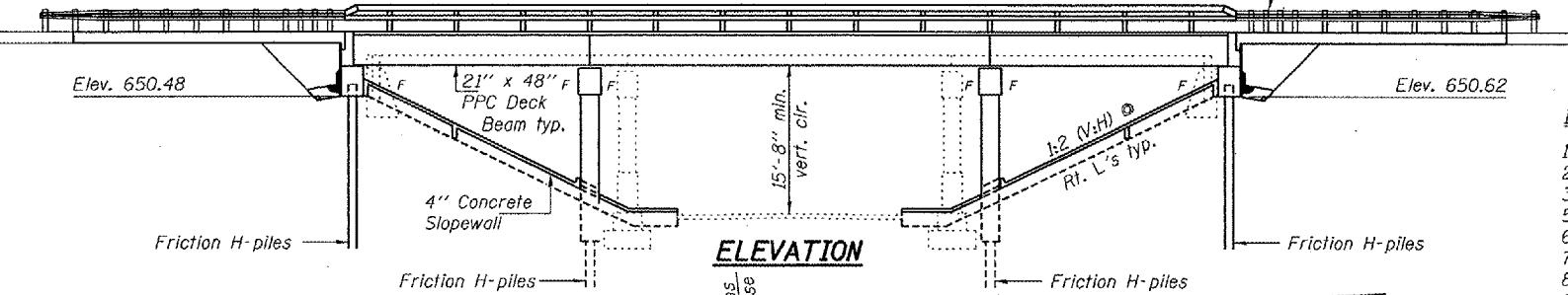
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO. 1
FAS 1671	**	DOUGLAS	181	71
14 SHEETS				

Contract #70258 **M45BR-2 & 22VBR-1

Existing Structure: S.M. 021-0014, originally built in 1938 as S.B.I. Route 121, Section 144SB-1-FAGH, 144SF-1-FAGH as a three span wide flange structure. In 1974, the superstructure was replaced with PPC deck beams and the substructure was widened. The substructure consists of stub abutments and three-column piers on spread footings. The existing structure measures 95'-6 1/2" back to back of abutments and 45'-0" out to out of deck. The existing structure is to be removed and replaced. Traffic will be detoured. No salvage

Traffic Barrier Terminal
Std. 631032 Type 6A typ.
See Note A.

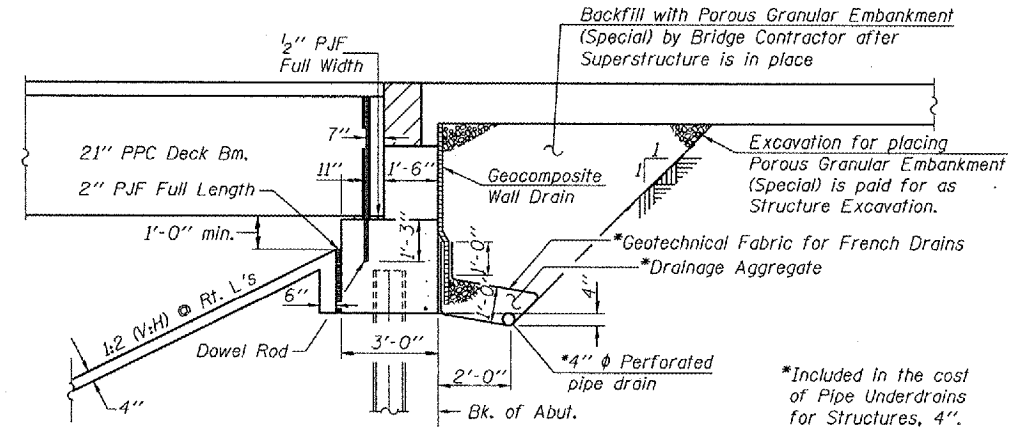
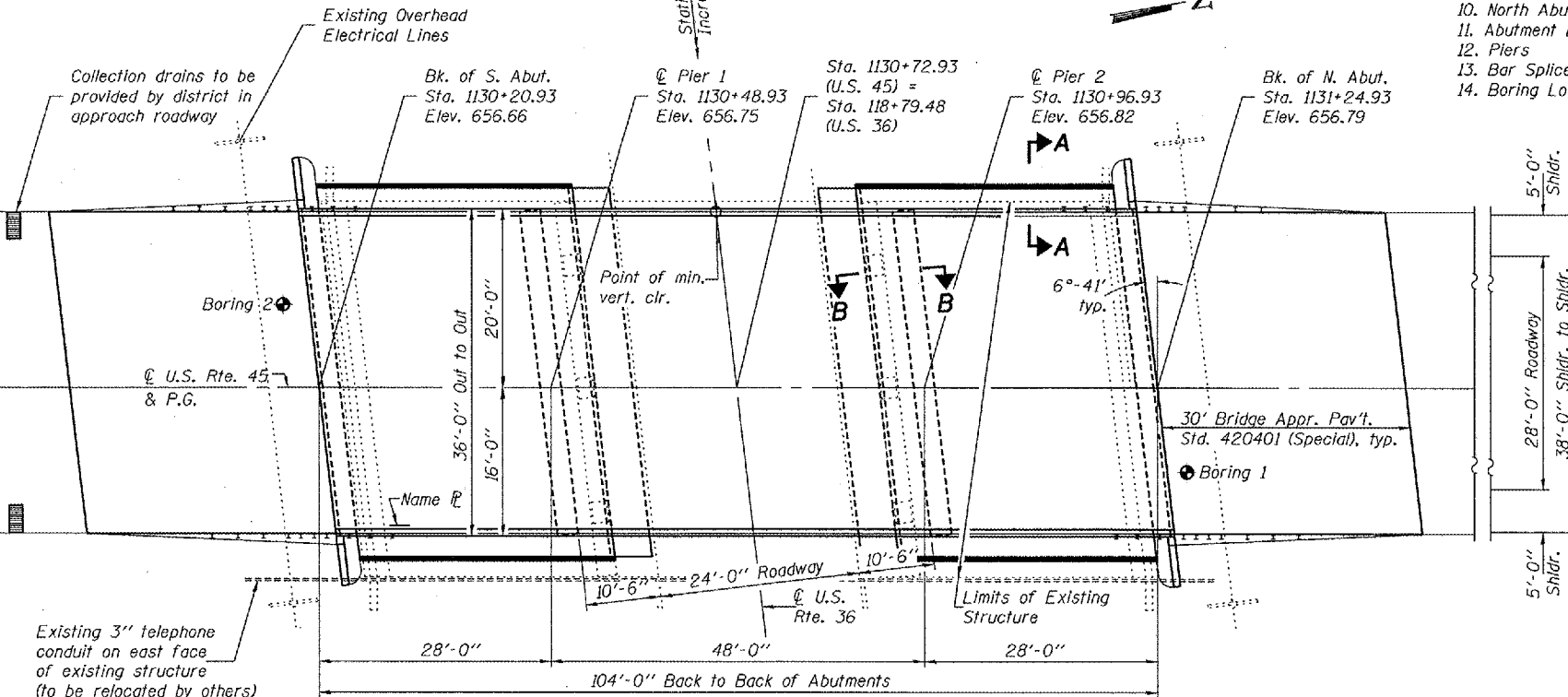


INDEX OF SHEETS

1. General Plan & Elevation
2. SM Railing
- 3.-4. Top of Slab Elevations
5. Superstructure
6. Superstructure Details
7. Beam Details, Spans 1 & 3
8. Beam Details, Span 2
9. South Abutment
10. North Abutment
11. Abutment Details
12. Piers
13. Bar Splicers
14. Boring Logs

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60. Concrete sealer shall be applied to exterior vertical face of each fascia beam. The Contractor shall drive four steel HP12x53 test piles in a permanent location, one at each substructure unit, as directed by the Engineer before ordering remainder of piles. All construction joints shall be bonded. The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing procedures for removal of the existing structure. Before starting work, the Contractor shall submit a demolition procedure for the removal of the existing structure to the Engineer for approval. The demolition procedure is to be prepared by and Illinois Licensed Structural Engineer. Cost included with Removal of Existing Structures, No. 1. Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



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

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

STATION 1130+72.93
BUILT 200 BY
STATE OF ILLINOIS
FAS ROUTE 1671 - SEC 1445BR-2
LOADING HS20
STR. NO. 021-0062

NAME PLATE
See Std. 515001

LOADING HS20-44
Allow 50#/#sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES

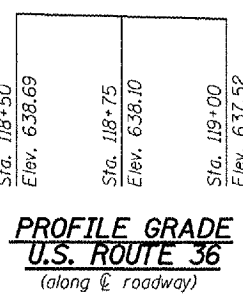
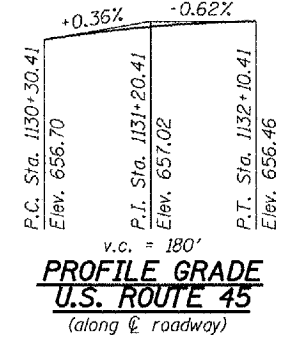
FIELD UNITS
f_c = 3,500 psi (substructure)
f_y = 60,000 psi (reinforcement)
f_c = 5,000 psi (concrete wearing surface)

PRECAST PRESTRESSED UNITS
f_c = 5,000 psi
f_a = 4,000 psi
f_s = 270,000 psi (1/2" low relax. strands)
f_a = 201,960 psi (1/2" low relax. strands)

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 4.9%g
Site Coefficient (S) = 1.0

TOTAL BILL OF MATERIAL

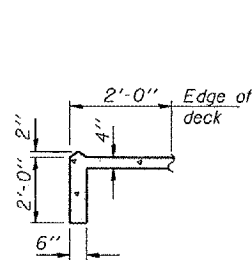
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 1	Each	1		1
Structure Excavation	Cu. Yd.		221	221
Concrete Structures	Cu. Yd.		141.4	141.4
Diamond Grinding (Bridge Section)	Sq. Yd.	606.2		606.2
Concrete Wearing Surface	Sq. Yd.	403.9		403.9
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3629.5		3629.5
Reinforcement Bars, Epoxy Coated	Pound	5370	12430	17800
Furnishing Steel Piles HP12x53	Foot		585	585
Driving Steel Piles	Foot		585	585
Test Pile Steel HP12x53	Each		4	4
Name Plates	Each	1		1
Slopewall, 4"	Sq. Yd.		359	359
Steel Bridge Rail, Type SM	Foot	205		205
Pipe Underdrains for Structures, 4"	Foot		126	126
Geocomposite Wall Drain	Sq. Yd.		47	47
Concrete Sealer	Sq. Yd.	39.3		39.3
Porous Granular Embankment (Special)	Cu. Yd.		74	74
Bar Splicers	Each		72	72
Bridge Deck Grooving	Sq. Yd.	380		380



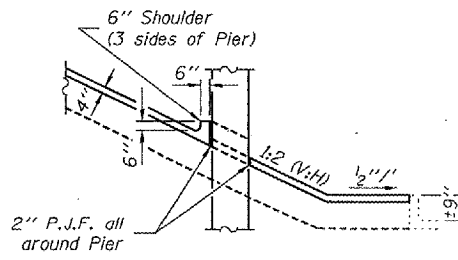
PLAN

Notes: The profile grade shows the final elevations after grinding. Up to 1/4" will be ground off the bridge slab and the bridge approach pavement.

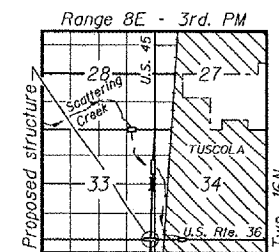
Note A: Additional post required adjacent to back of abutment. See Roadway Plans.



SECTION A-A



SECTION B-B

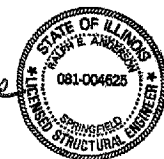


LOCATION SKETCH

GENERAL PLAN & ELEVATION
U.S. ROUTE 45 OVER
U.S. ROUTE 36
F.A.S. ROUTE 1671 - SECTION 1445BR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062

DESIGNED *Stephan M. Ryan*
CHECKED *Philip J. Stojanovich*
DRAWN BECKY M. LEACH
CHECKED *SMR/PRL*

August 4, 2006
EXAMINED *Thomas J. Stojanovich*
PASSED *Ralph J. Stojanovich*

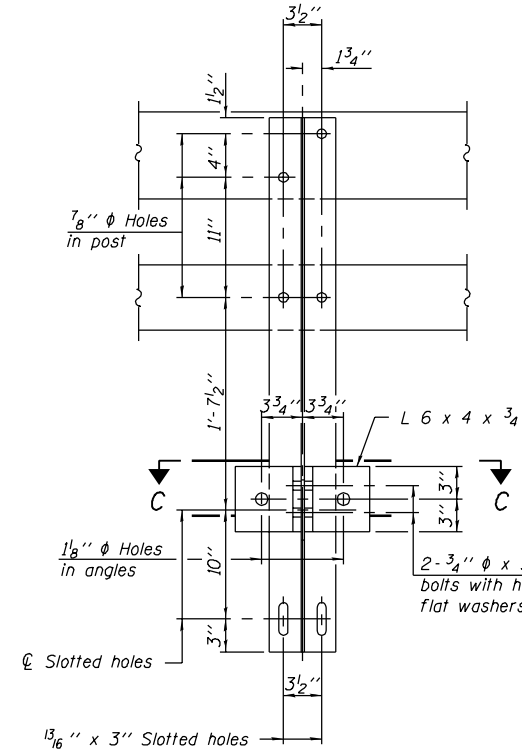
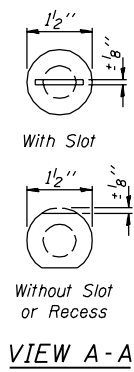
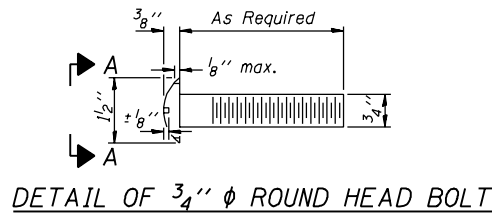


EXPIRES 11-30-2006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 14 SHEETS
FAS 1671	**	DOUGLAS	181	72	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70258 **144SBR-2 & 22VBR-1



4- 3/4" ϕ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" ϕ holes in hollow structural section may be drilled in the field.

13/16" x 5 1/2" slotted hole in post

13/16" ϕ holes in angles

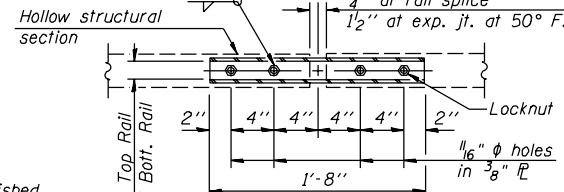
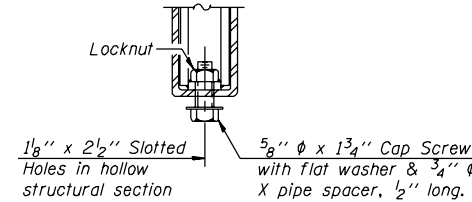
2- 1" ϕ x 7 3/4" AASHTO M-164 anchor bolts with flat washer and lockwasher

2- 5/8" ϕ x 5 3/4" cap screws with flat washer

*Prior to Grinding

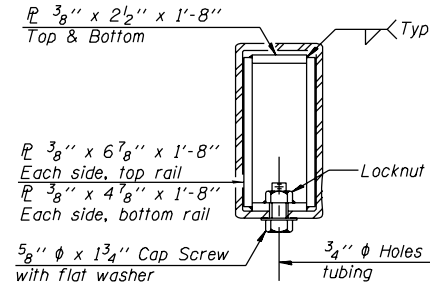
SECTION AT RAIL POST

RAIL SPLICE CONNECTION AT EXPANSION JT.

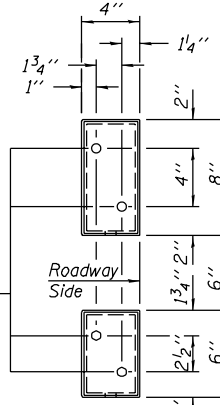


PLAN-BOTT. SPLICE P TYPICAL

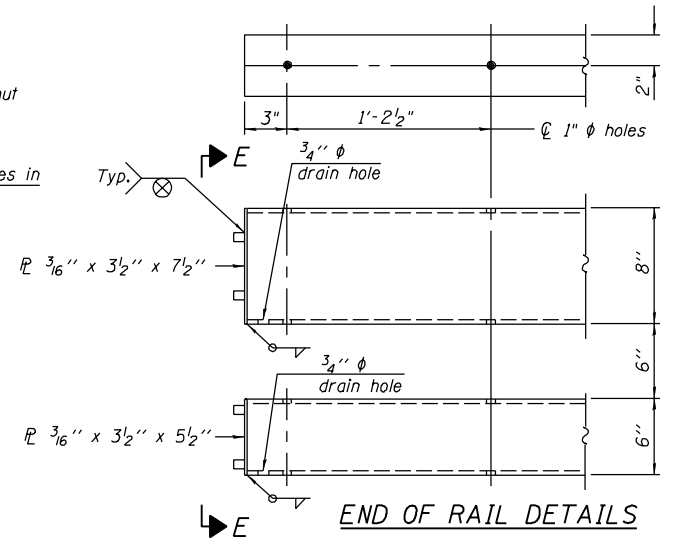
4 - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032



SECTION AT RAIL SPLICE



VIEW E-E



NOTES

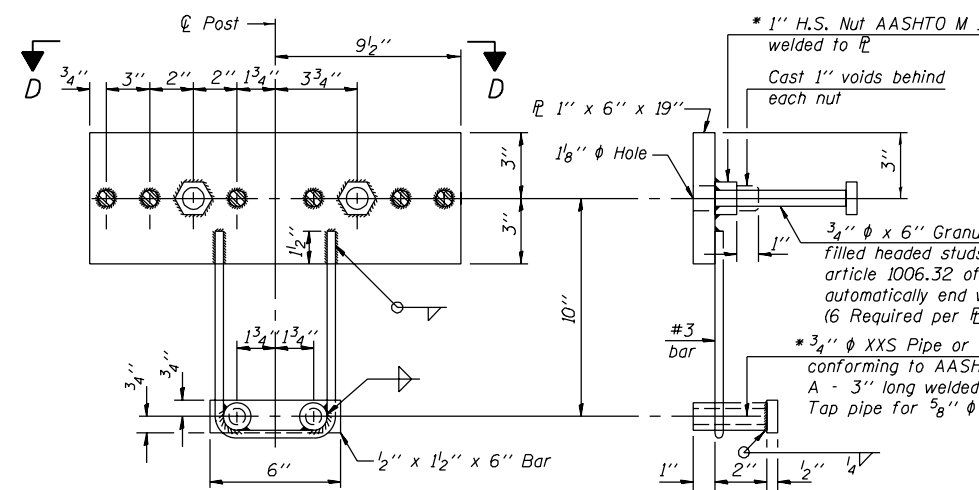
- Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.
- All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	205.0

TYPE SM

STEEL BRIDGE RAIL SIDE MOUNTED WITH CONCRETE WEARING SURFACE
F.A.S. ROUTE 1671 - SECTION 144SBR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062



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

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006

EXAMINED *Thomas J. Domagalaki*
ENGINEER OF BRIDGE DESIGN

PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

(6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

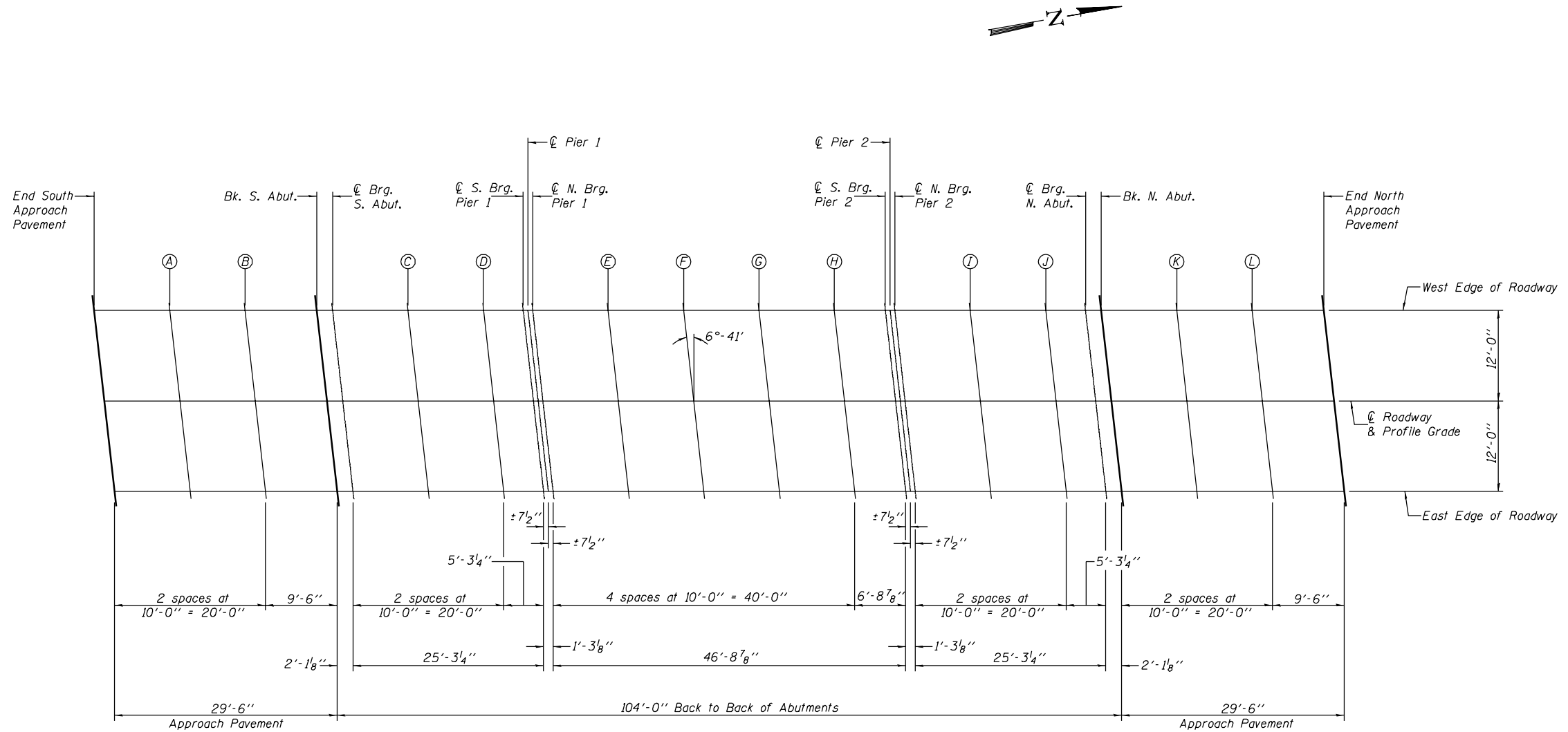
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	#	DOUGLAS	181	73
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 3

14 SHEETS

Contract #70258 *144SBR-2 & 22VBR-1



PLAN

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006
 EXAMINED *Thomas J. Domagalaki*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph V. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
 F.A.S. ROUTE 1671 - SECTION 144SBR-2
 DOUGLAS COUNTY
 STATION 1130+72.93
 STRUCTURE NO. 021-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End S. Appr. Pvmt.	112990.02	-12.00	656.30	656.32
A	113000.02	-12.00	656.34	656.36
B	113010.02	-12.00	656.37	656.39
Bk. S. Abut.	113019.52	-12.00	656.41	656.43
☉ Brg. S. Abut.	113021.62	-12.00	656.41	656.43
C	113031.62	-12.00	656.45	656.47
D	113041.62	-12.00	656.48	656.50
☉ S. Brg. Pier 1	113046.89	-12.00	656.50	656.52
☉ Pier 1	113047.52	-12.00	656.50	656.52
☉ N. Brg. Pier 1	113048.15	-12.00	656.50	656.52
E	113058.15	-12.00	656.52	656.54
F	113068.15	-12.00	656.54	656.56
G	113078.15	-12.00	656.56	656.58
H	113088.15	-12.00	656.56	656.58
☉ S. Brg. Pier 2	113094.89	-12.00	656.56	656.58
☉ Pier 2	113095.52	-12.00	656.56	656.58
☉ N. Brg. Pier 2	113096.15	-12.00	656.57	656.59
I	113106.15	-12.00	656.56	656.58
J	113116.15	-12.00	656.55	656.57
☉ Brg. N. Abut.	113121.42	-12.00	656.55	656.57
Bk. N. Abut.	113123.52	-12.00	656.55	656.57
K	113133.52	-12.00	656.53	656.55
L	113143.52	-12.00	656.50	656.52
End N. Appr. Pvmt.	113153.02	-12.00	656.48	656.50

☉ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End S. Appr. Pvmt.	112991.43	0.00	656.56	656.58
A	113001.43	0.00	656.59	656.61
B	113011.43	0.00	656.63	656.65
Bk. S. Abut.	113020.93	0.00	656.66	656.68
☉ Brg. S. Abut.	113023.02	0.00	656.67	656.69
C	113033.02	0.00	656.71	656.73
D	113043.02	0.00	656.74	656.76
☉ S. Brg. Pier 1	113048.3	0.00	656.75	656.77
☉ Pier 1	113048.93	0.00	656.75	656.77
☉ N. Brg. Pier 1	113049.56	0.00	656.75	656.77
E	113059.56	0.00	656.78	656.80
F	113069.56	0.00	656.80	656.82
G	113079.56	0.00	656.81	656.83
H	113089.56	0.00	656.81	656.83
☉ S. Brg. Pier 2	113096.3	0.00	656.82	656.84
☉ Pier 2	113096.93	0.00	656.82	656.84
☉ N. Brg. Pier 2	113097.55	0.00	656.81	656.83
I	113107.55	0.00	656.81	656.83
J	113117.55	0.00	656.80	656.82
☉ Brg. N. Abut.	113122.83	0.00	656.80	656.82
Bk. N. Abut.	113124.93	0.00	656.79	656.81
K	113134.93	0.00	656.77	656.79
L	113144.93	0.00	656.75	656.77
End N. Appr. Pvmt.	113154.42	0.00	656.72	656.74

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End S. Appr. Pvmt.	112992.84	12.00	656.31	656.33
A	113002.84	12.00	656.35	656.37
B	113012.84	12.00	656.38	656.40
Bk. S. Abut.	113022.33	12.00	656.42	656.44
☉ Brg. S. Abut.	113024.43	12.00	656.42	656.44
C	113034.43	12.00	656.46	656.48
D	113044.43	12.00	656.49	656.51
☉ S. Brg. Pier 1	113049.7	12.00	656.51	656.53
☉ Pier 1	113050.33	12.00	656.51	656.53
☉ N. Brg. Pier 1	113050.96	12.00	656.51	656.53
E	113060.96	12.00	656.53	656.55
F	113070.96	12.00	656.55	656.57
G	113080.96	12.00	656.56	656.58
H	113090.96	12.00	656.56	656.58
☉ S. Brg. Pier 2	113097.7	12.00	656.56	656.58
☉ Pier 2	113098.33	12.00	656.56	656.58
☉ N. Brg. Pier 2	113098.96	12.00	656.56	656.58
I	113108.96	12.00	656.56	656.58
J	113118.96	12.00	656.55	656.57
☉ Brg. N. Abut.	113124.23	12.00	656.54	656.56
Bk. N. Abut.	113126.33	12.00	656.54	656.56
K	113136.33	12.00	656.52	656.54
L	113146.33	12.00	656.50	656.52
End N. Appr. Pvmt.	113155.83	12.00	656.47	656.49

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006
 EXAMINED *Thomas J. Domagalaki*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph J. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
 F.A.S. ROUTE 1671 - SECTION 144SBR-2
 DOUGLAS COUNTY
 STATION 1130+72.93
 STRUCTURE NO. 021-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

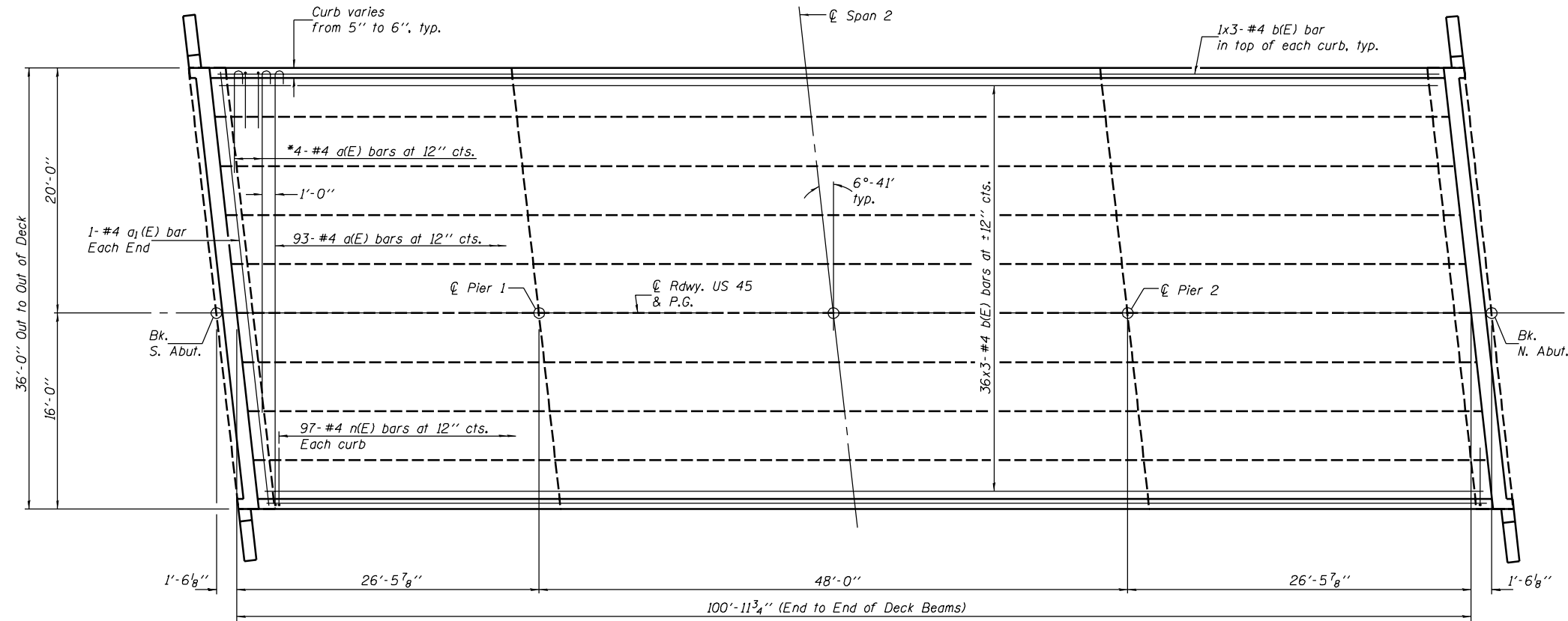
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	**	DOUGLAS	181	75
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 5
14 SHEETS

Contract #70258 **144SBR-2 & 22VBR-1

MIN. BAR LAP

#4 bar = 1'-8"



PLAN

*Order a(E) bars full length. Cut to fit skew and use remainder in opposite end.

Notes:

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 35x3-#4 etc. indicates 35 lines of bars with 3 lengths per line.

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

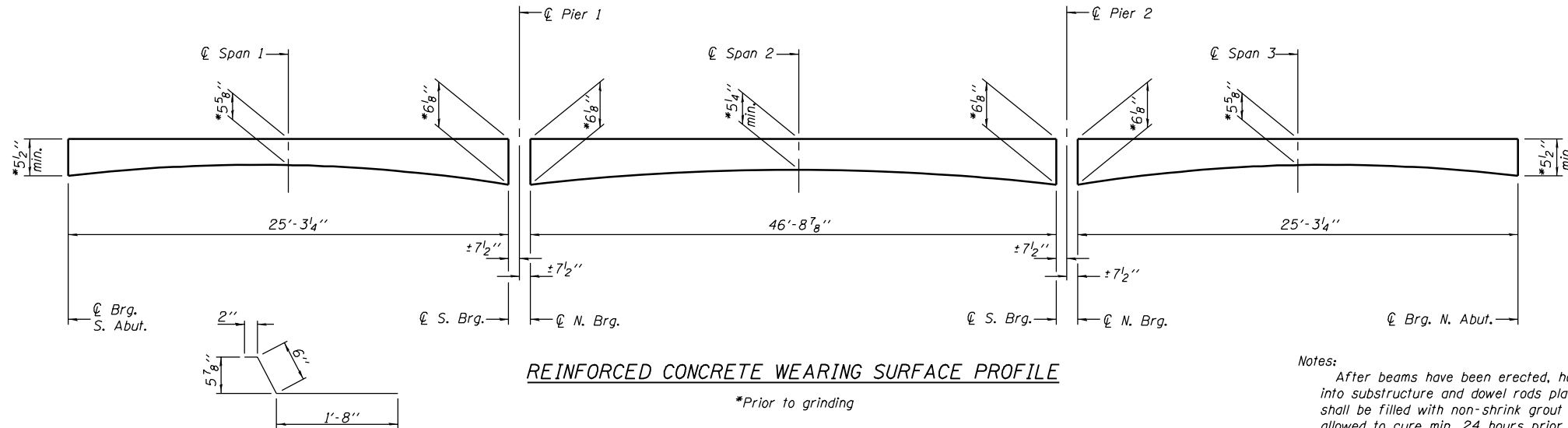
August 4, 2006
 EXAMINED *Thomas J. Domagalaki*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph V. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE
F.A.S. ROUTE 1671 - SECTION 144SBR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

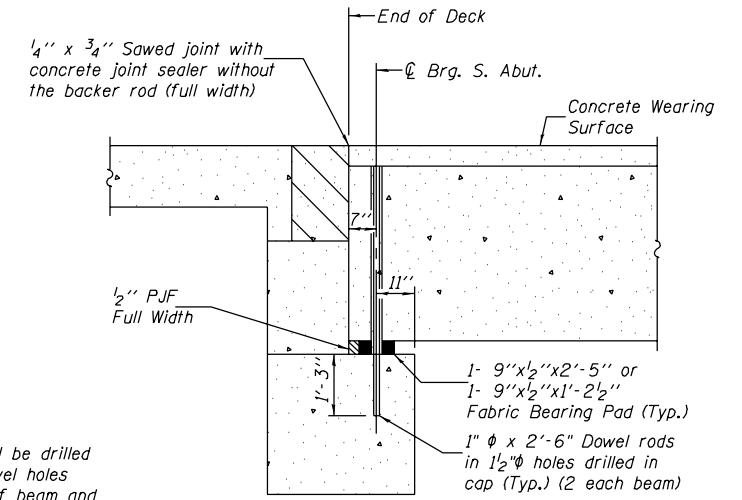
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 14 SHEETS
FAS 1671	**	DOUGLAS	181	76	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70258 **144SBR-2 & 22VBR-1



REINFORCED CONCRETE WEARING SURFACE PROFILE

*Prior to grinding



SECTION THRU SOUTH ABUTMENT

(Dimensions measured at right angles)
(North Abutment similar by rotation)

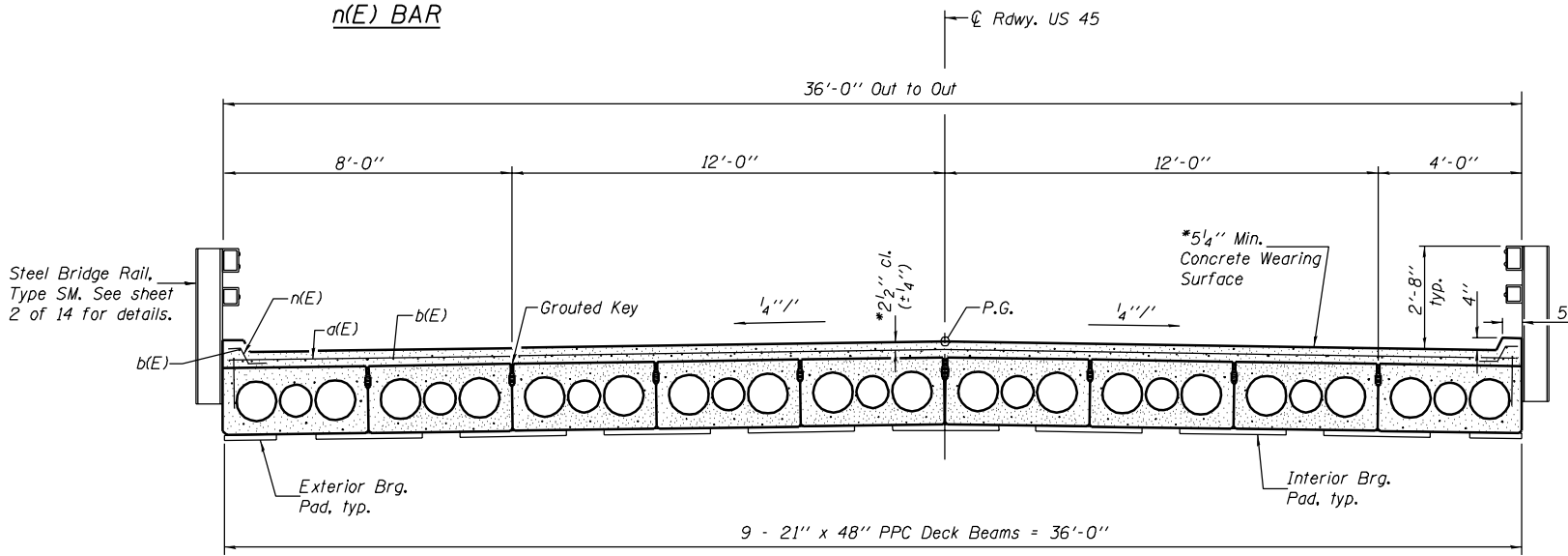
Notes:

After beams have been erected, holes shall be drilled into substructure and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hours prior to grouting the shear keys.

See sheets 7 and 8 of 14 for Fabric Bearing Pad Details. Concrete Wearing Surface to be poured after grouting the shear keys.

Dowel rods drilled in cap are included in the cost of Precast Prestressed Concrete Deck Beams (21" Depth).

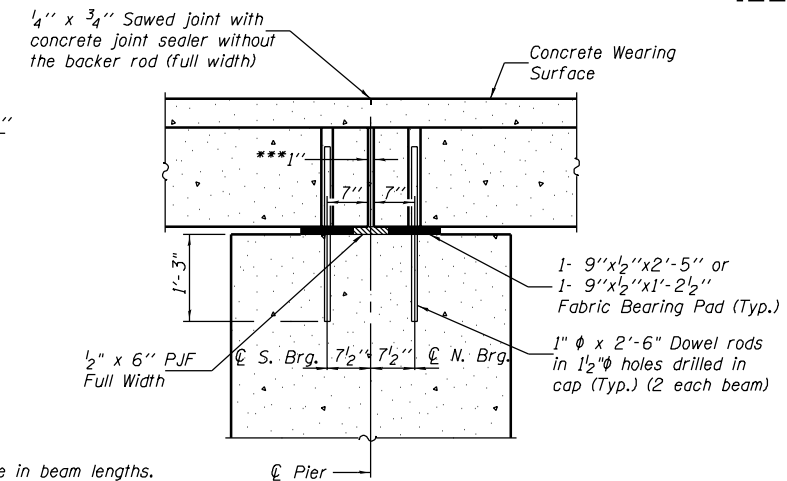
Hatched areas to be poured after concrete wearing surface is in place. Quantity included with Concrete Structures on sheet 11 of 14.



CROSS SECTION

(Looking North)

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



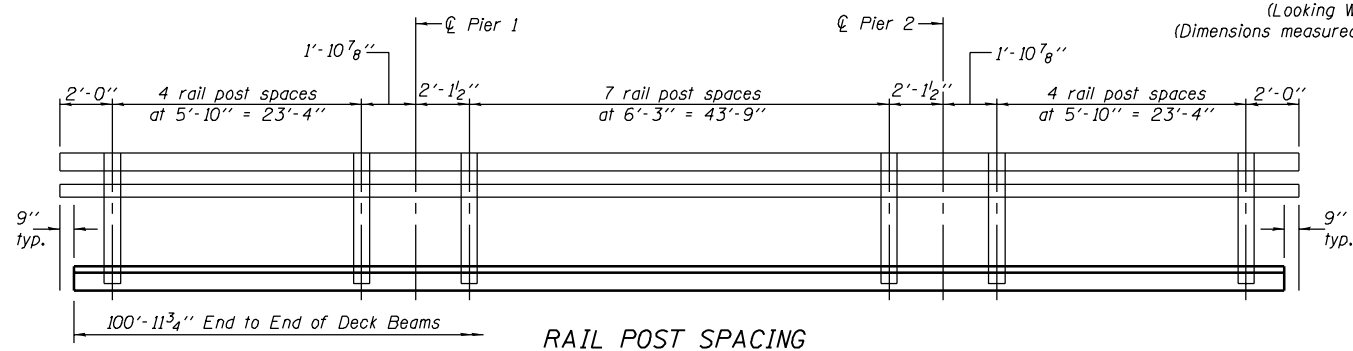
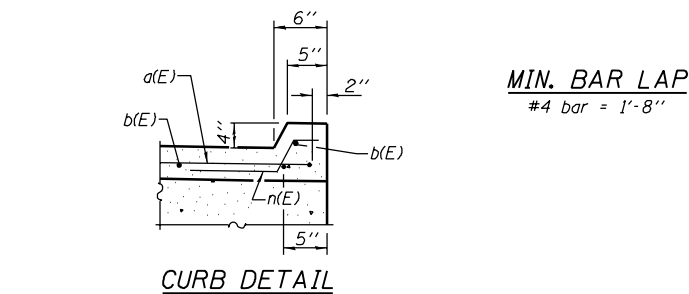
TYPICAL PIER SECTION

(Looking West)
(Dimensions measured at rt. angles)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	97	#4	36'-8"	C	
a1(E)	2	#4	35'-11"	—	
b(E)	114	#4	34'-8"	—	
n(E)	194	#4	2'-4"	L	
Reinforcement Bars, Epoxy Coated				Pound	5370
Concrete Wearing Surface				Sq. Yd.	403.9

Reinforcement bars designated (E) shall be epoxy coated.



RAIL POST SPACING

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006
EXAMINED *Thomas J. Domagala*
PRINCIPAL ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

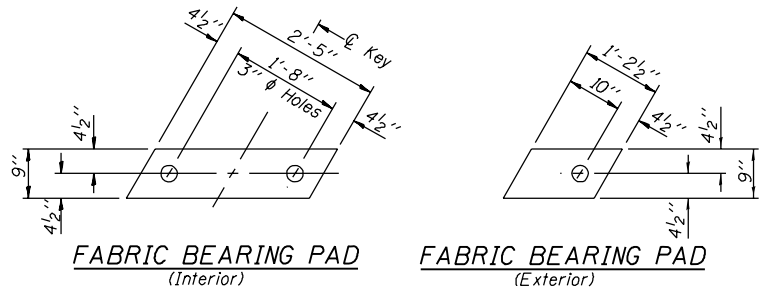
SUPERSTRUCTURE DETAILS
F.A.S. ROUTE 1671 - SECTION 144SBR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

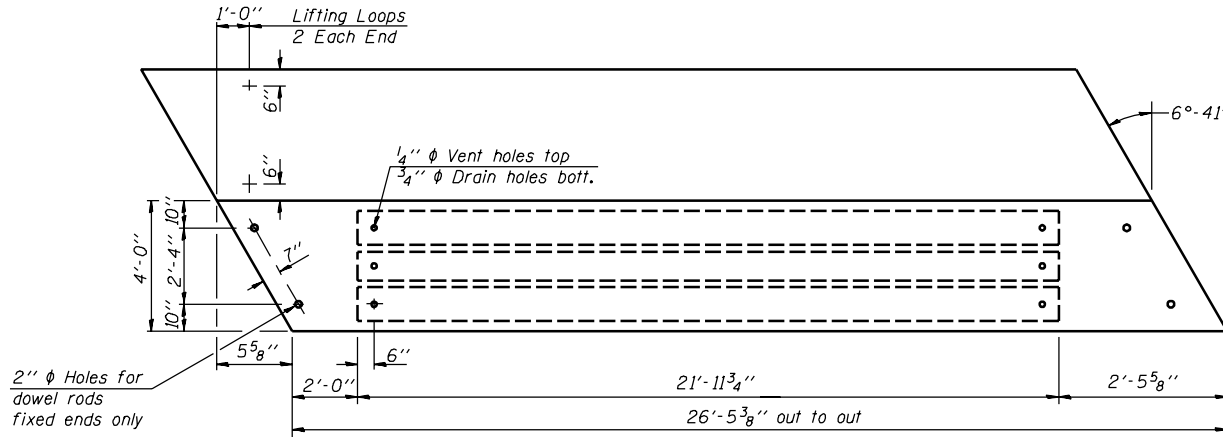
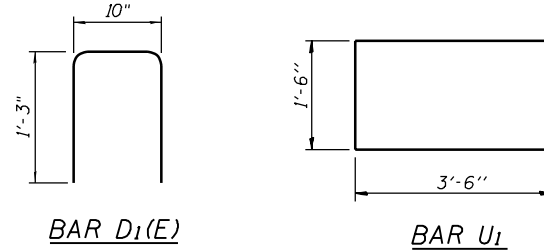
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	**	DOUGLAS	181	77
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7
14 SHEETS

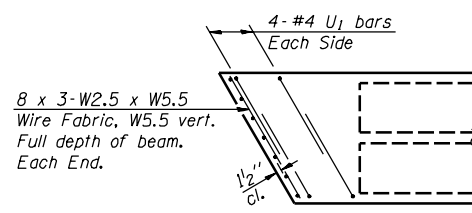
Contract #70258 **144SBR-2 & 22VBR-1



FIXED

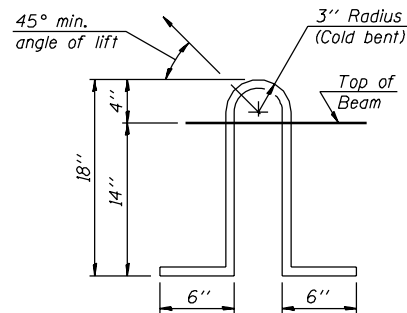


PLAN

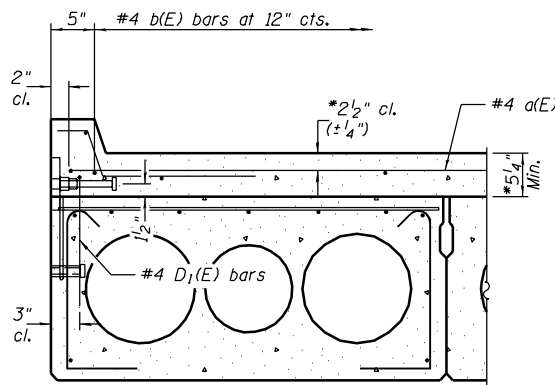


END PLAN

*Prior to grinding

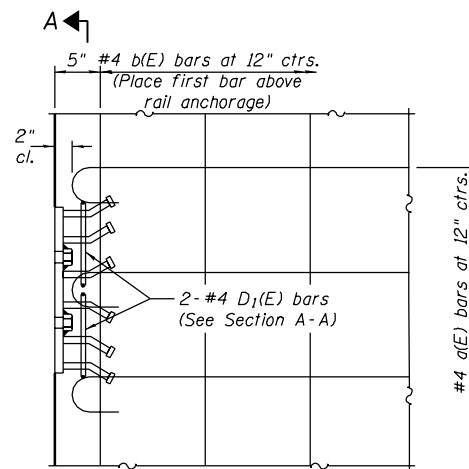


LIFTING LOOP DETAIL

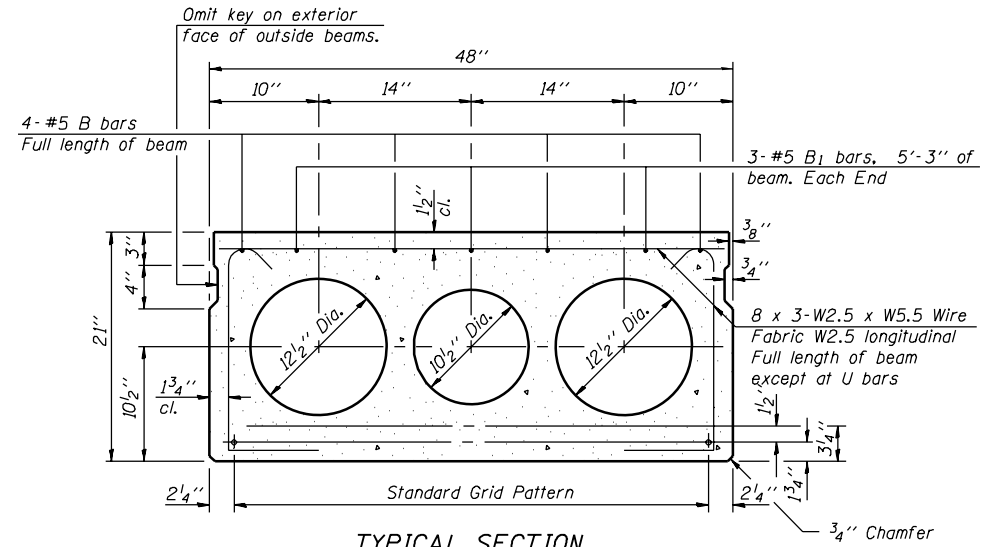


FASCIA BEAM

Rail anchorage shall be cast in precast beams. See typical section for dimensions, strand pattern, and bar callouts not shown. Formwork necessary for the wearing surface may be secured utilizing the bottom rail inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.



PARTIAL DECK PLAN AT
RAIL ANCHORAGE
(curb not shown)



TYPICAL SECTION

1/2" ϕ Strands, Each Strand Stressed to 30,900 Lbs. 7-Strands 1 3/4" up

Note:
Place strands symmetrically about ϕ of beam.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2-1/2" ϕ -270 ksi strands, as shown. Non prestressing steel shall conform to AASHTO M-31 or M322 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4,000 p.s.i. D1(E) bars only in reinforcement of anchorage of SM Railing on exterior beams. See Section A-A.

BAR LIST (ONE BEAM)

Bar	No.	Size	Length	Shape
B	4	#5	26'-0"	—
B1	5	#5	5'-3"	—
D1	10	#4	3'-4"	U
U1	16	#4	8'-6"	U

***Exterior beams only

BILL OF MATERIAL

Precast Prestressed Conc. Deck Beams (21" Depth)	Sq. Ft.	1904.5
--	---------	--------

BEAM DETAILS - SPANS 1 & 3
F.A.S. ROUTE 1671 - SECTION 144SBR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062

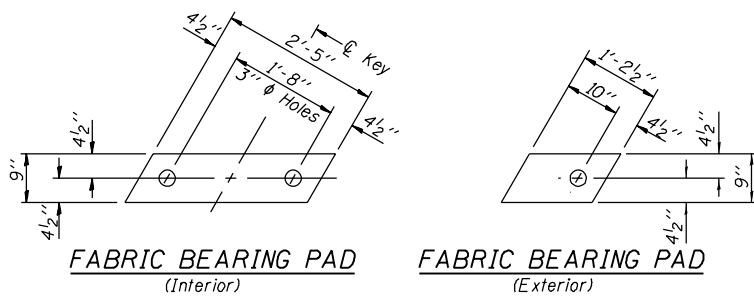
DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006
EXAMINED *Thomas J. Domagala*
DRAWN *Ralph E. Anderson*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

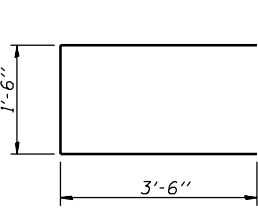
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	**	DOUGLAS	181	78
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract #70258 ***144SBR-2 & 22VBR-1	

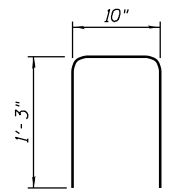
SHEET NO. 8
14 SHEETS



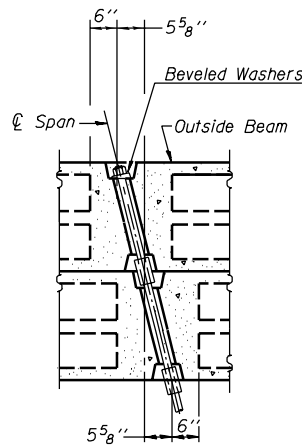
FIXED



BAR U1

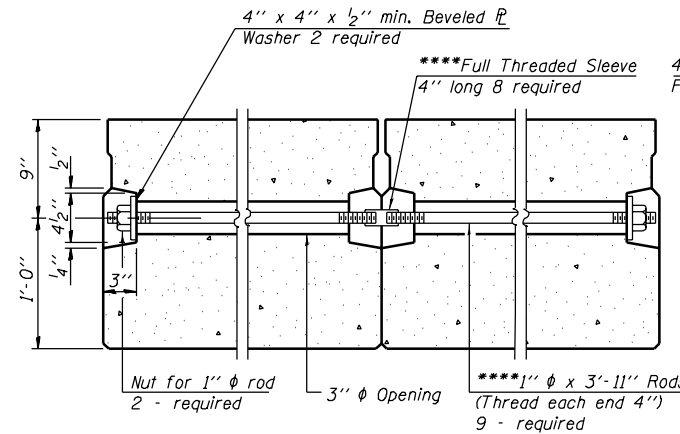


BAR D1(E)



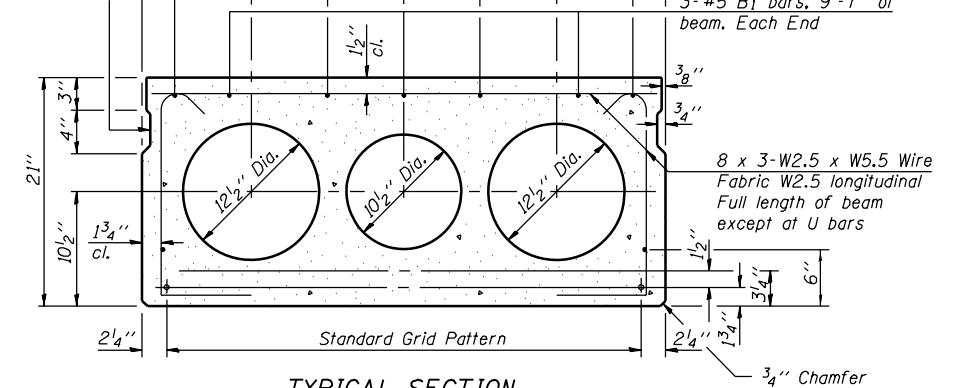
TYPICAL TRANSVERSE TIE ASSEMBLY

****Alternate approved transverse tie rods of increased segmental length are acceptable.



Omit key on exterior face of outside beams.

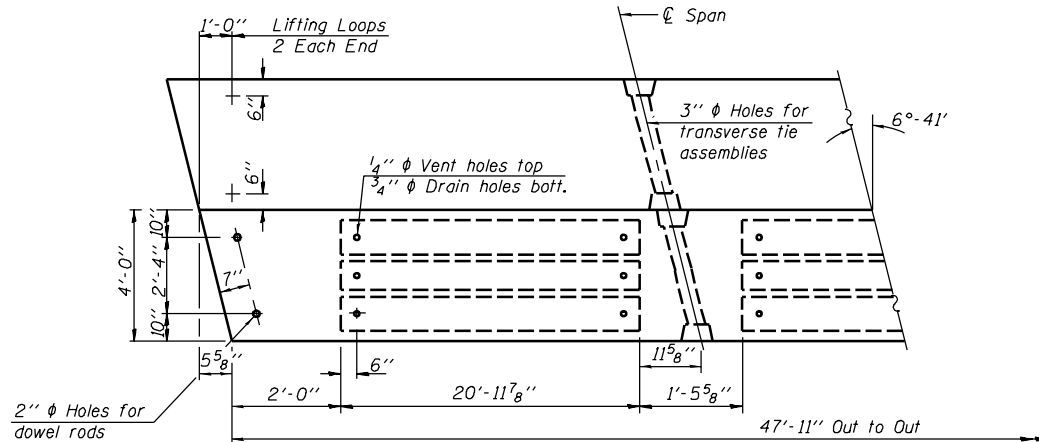
4- #5 B bars Full length of beam



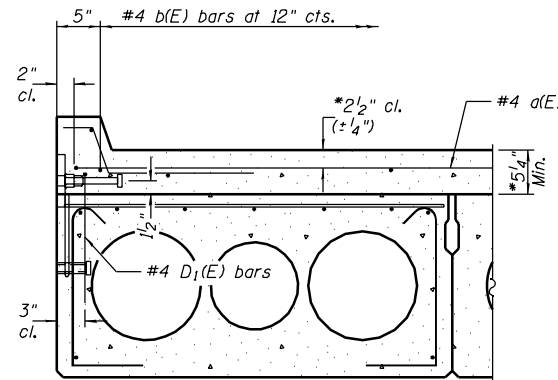
TYPICAL SECTION

1/2" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
8-Strands 1 3/4" up, 7-Strands 3/4" up, 2-Strands 6" up

Note:
Place strands symmetrically about ϕ of beam.



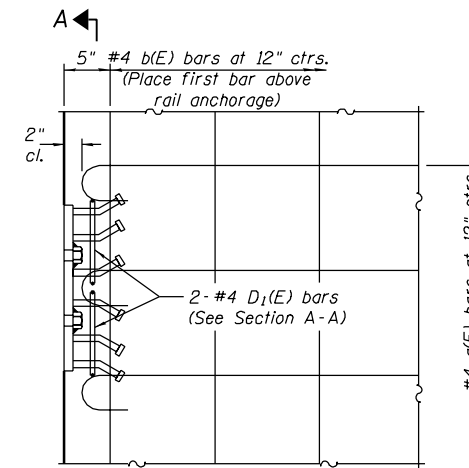
PLAN



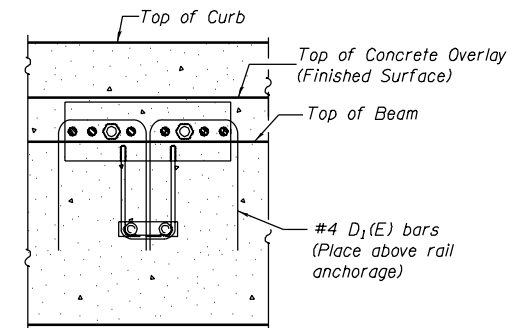
FASCIA BEAM

Rail anchorage shall be cast in precast beams. See typical section for dimensions, strand pattern, and bar callouts not shown. Formwork necessary for the wearing surface may be secured utilizing the bottom rail inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.

*Prior to grinding



PARTIAL DECK PLAN AT RAIL ANCHORAGE (Curb not shown)



SECTION A-A

BAR LIST (ONE BEAM)

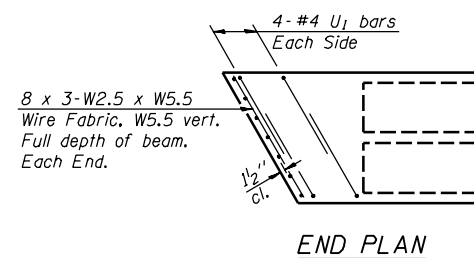
Bar	No.	Size	Length	Shape
B	4	#5	47'-7"	—
B1	6	#5	9'-7"	—
*** D1	16	#4	3'-4"	U
U1	16	#4	8'-6"	□

***Exterior beams only

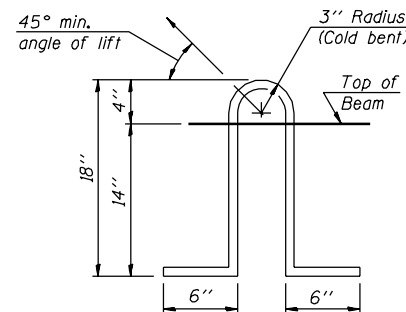
BILL OF MATERIAL

Precast Prestressed Conc. Deck Beams (21" Depth)	Sq. Ft.	1725
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BEAM DETAILS - SPAN 2
F.A.S. ROUTE 1671 - SECTION 144SBR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062



END PLAN



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - 1/2" ϕ -270 ksi strands, as shown. The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Non prestressing steel shall conform to AASHTO M-31 or M-322 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4,000 p.s.i. D1(E) bars only in reinforcement of anchorage of SM Railing on exterior beams. See Section A-A.

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

PD-4-R

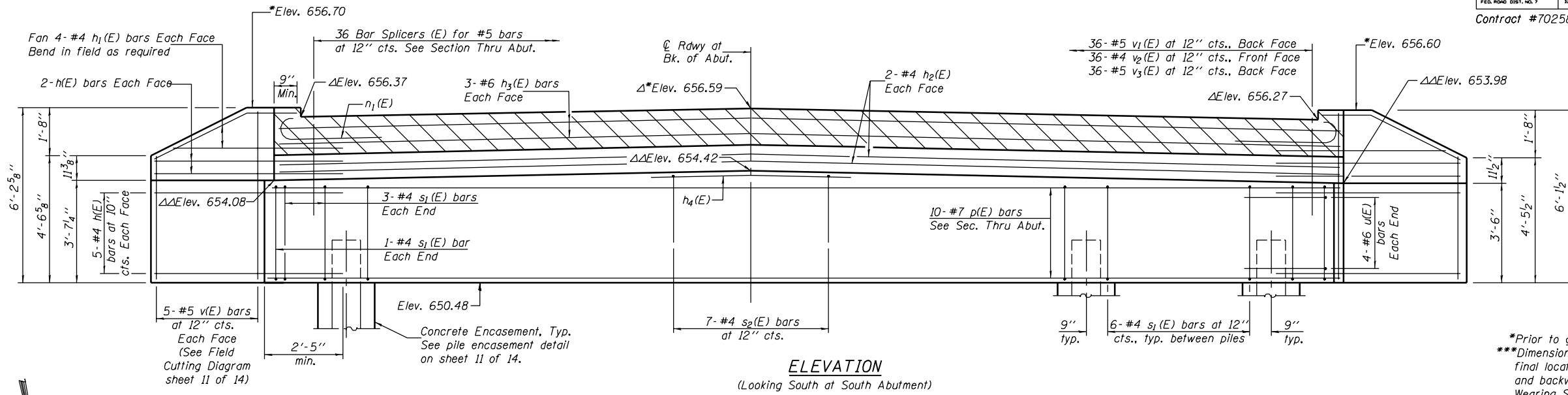
10-22-04

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	**	DOUGLAS	181	79
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

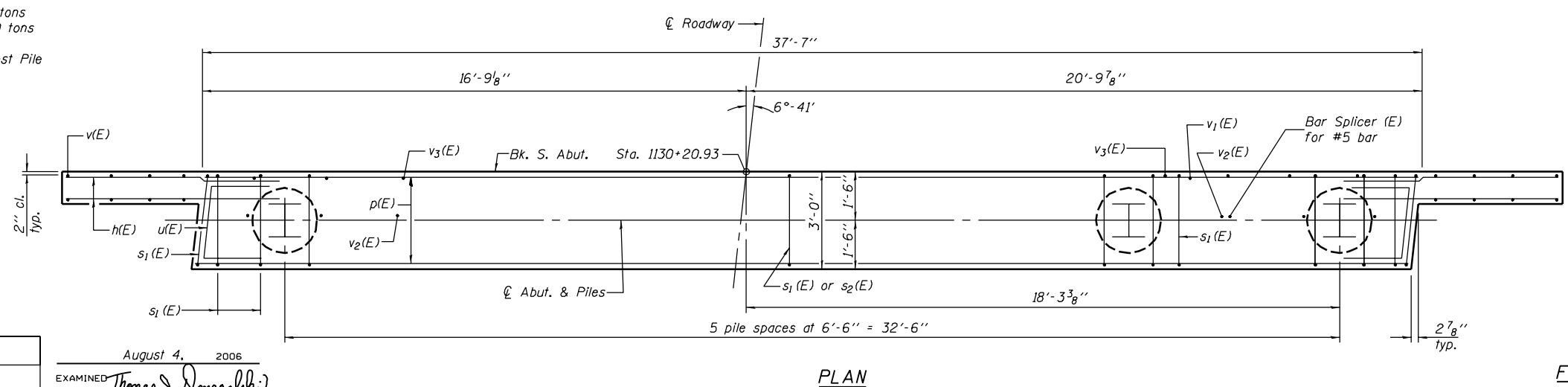
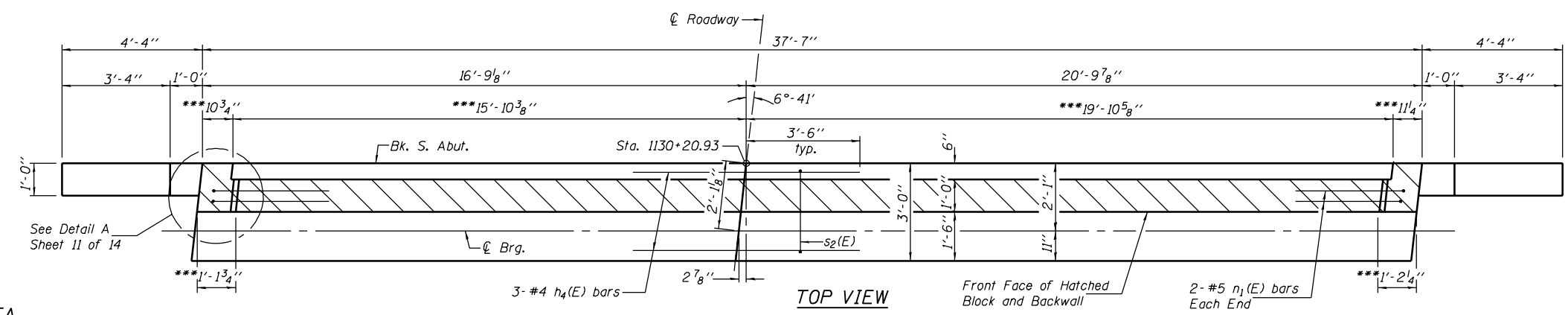
SHEET NO. 9
14 SHEETS

Contract #70258 **144SBR-2 & 22VBR-1



*Prior to grinding
 ***Dimensions may vary depending on final location of exterior beams. Hatched area and backwall to be poured after Concrete Wearing Surface is in place and cured.

Δ Elevation at Front Face of Hatch Block.
 ΔΔ Elevation at Front Face of Backwall.



PILE DATA

Type: HP12x53
 Design Capacity: 40 tons
 Required Bearing: 60 tons
 Est. Length: 24 ft.
 No. Required: 5+1 Test Pile

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006
 EXAMINED *Thomas J. Domagala*
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

Notes: For Bar Splicer details see sheet 13 of 14.
 Reinforcement bars designated (E) shall be epoxy coated.
 Space reinforcement in cap to miss dowel rods.

SOUTH ABUTMENT
 F.A.S. ROUTE 1671 - SECTION 144SBR-2
 DOUGLAS COUNTY
 STATION 1130+72.93
 STRUCTURE NO. 021-0062

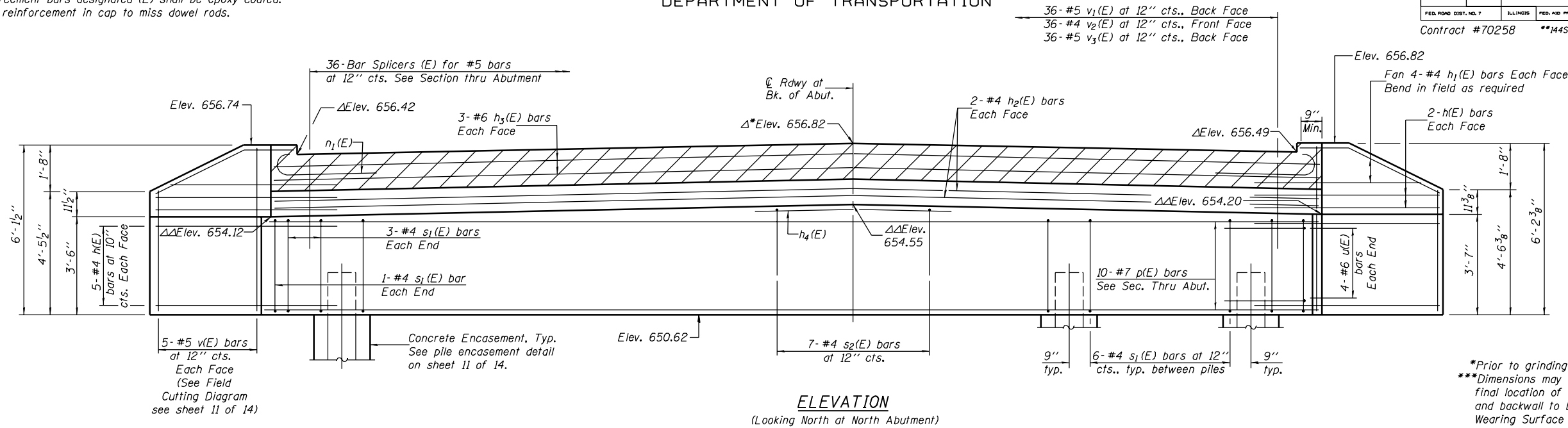
Notes: For Bar Splicer details see sheet 13 of 14.
 Reinforcement bars designated (E) shall be epoxy coated.
 Space reinforcement in cap to miss dowel rods.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	**	DOUGLAS	181	80
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

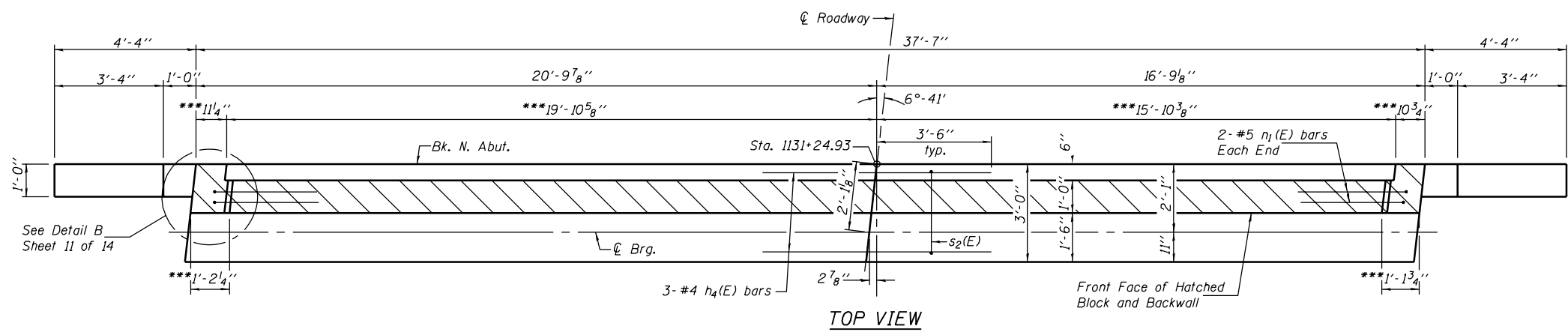
SHEET NO. 10
 14 SHEETS

Contract #70258 **144SBR-2 & 22VBR-1



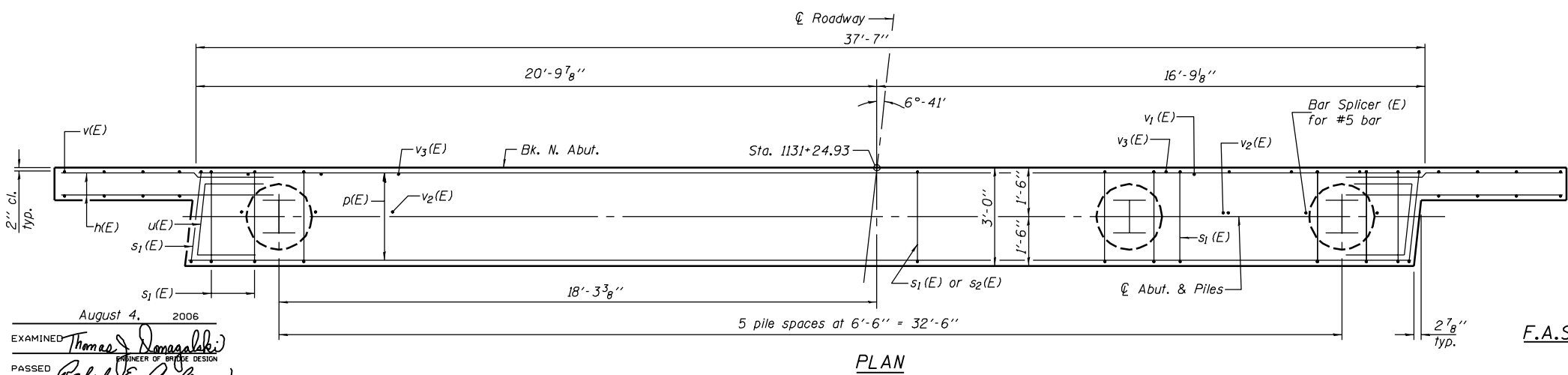
*Prior to grinding
 ***Dimensions may vary depending on final location of exterior beams. Hatched area and backwall to be poured after Concrete Wearing Surface is in place and cured.

Δ Elevation at Front Face of Hatch Block.
 ΔΔ Elevation at Front Face of Backwall.



PILE DATA

Type: HP12x53
 Design Capacity: 40 tons
 Required Bearing: 60 tons
 Est. Length: 24 ft.
 No. Required: 5+1 Test Pile



NORTH ABUTMENT
 F.A.S. ROUTE 1671 - SECTION 144SBR-2
 DOUGLAS COUNTY
 STATION 1130+72.93
 STRUCTURE NO. 021-0062

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006
 EXAMINED *Thomas J. Domagalaki*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

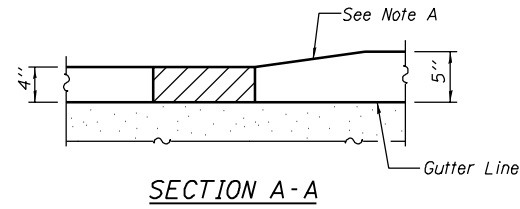
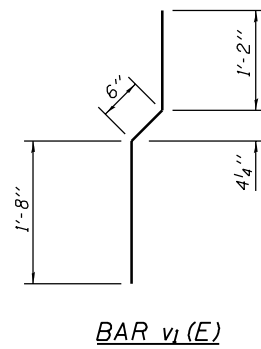
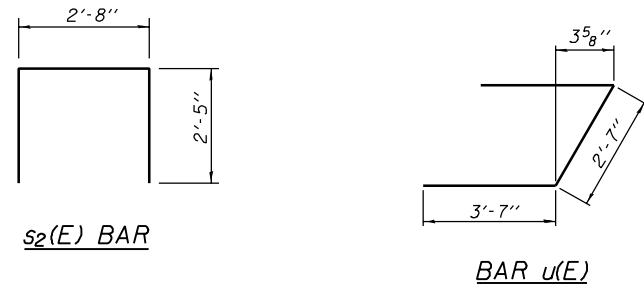
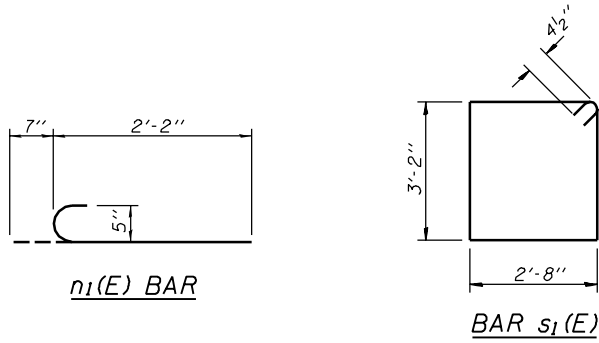
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	**	DOUGLAS	181	81
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

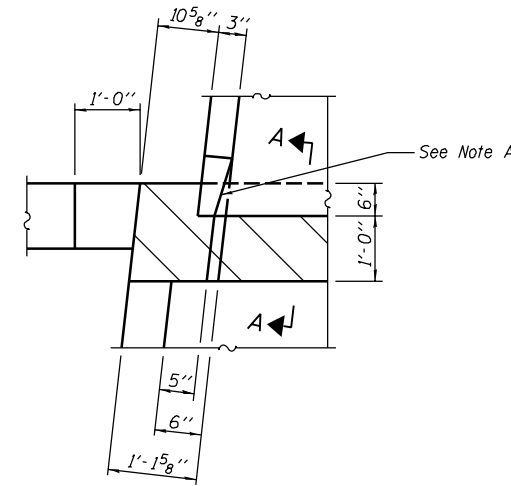
SHEET NO. 11
14 SHEETS

Contract #70258 **144SBR-2 & 22VBR-1

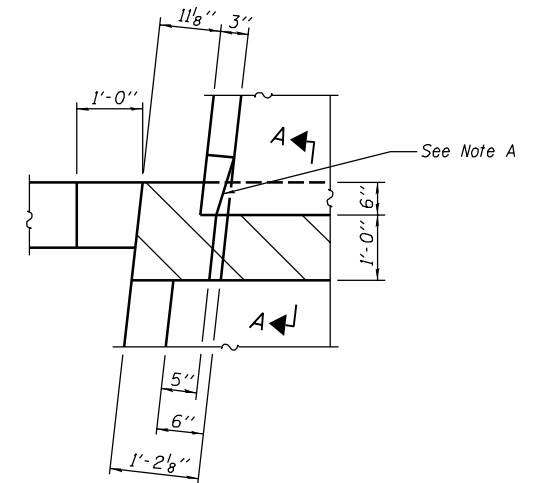
Notes: For Bar Splicer details see sheet 13 of 14.
Reinforcement bars designated (E) shall be epoxy coated.
Space reinforcement in cap to miss dowel rods.
Hatched area and Backwall to be poured after Concrete Wearing Surface is in place and cured.



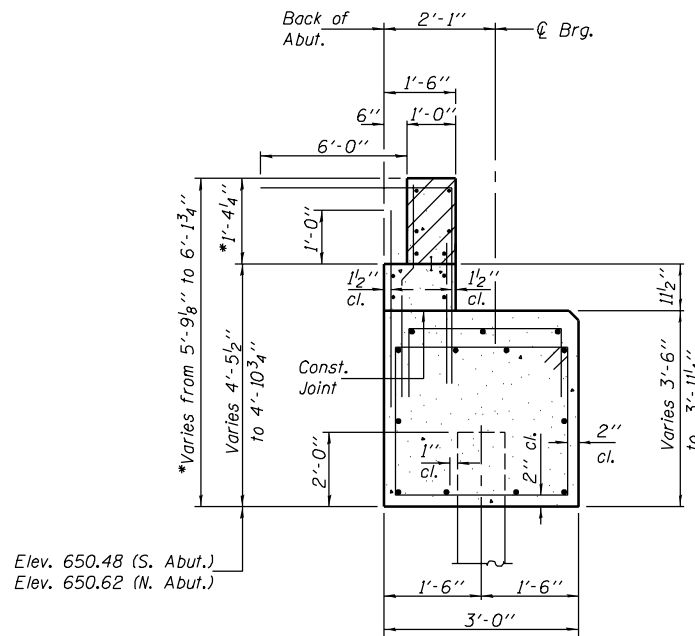
Note A:
This portion of the curb on Bridge Approach may be feathered to transition from curb shape on structure.



DETAIL A
Curb on East side of South Abutment shown.
Curb on East side of North Abutment similar.

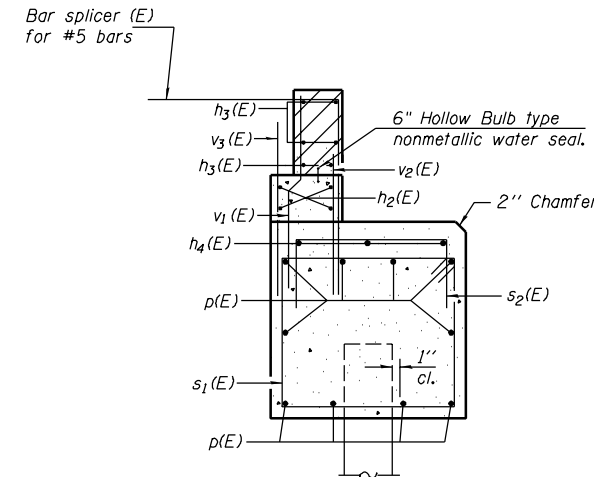


DETAIL B
Curb on West side of North Abutment shown.
Curb on West side of South Abutment similar.

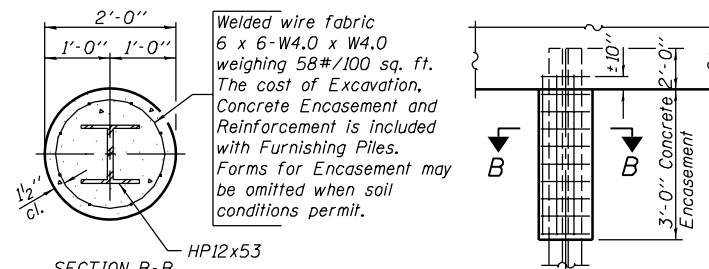


SECTION THRU ABUTMENT
(Showing Dimensions at Rt. L's)

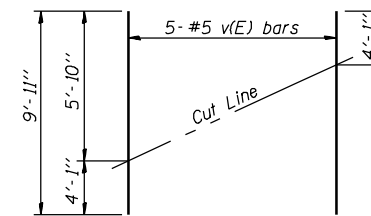
*Prior to grinding



SECTION THRU ABUTMENT
(Showing Reinforcement at Rt. L's)



PILE ENCASEMENT DETAIL



FIELD CUTTING DIAGRAM

Order v(E) full length. Cut as shown and use remainder of bars in opposite face.

BILL OF MATERIAL
FOR TWO ABUTMENTS

Bar	No.	Size	Length	Shape
n(E)	56	#4	6'-7"	—
h1(E)	32	#4	7'-2"	—
h2(E)	8	#4	37'-3"	—
h3(E)	12	#6	37'-3"	—
h4(E)	6	#4	7'-0"	—
n1(E)	8	#5	2'-9"	—
p(E)	20	#7	37'-3"	—
s1(E)	76	#4	12'-5"	□
s2(E)	14	#4	7'-6"	□
u(E)	16	#6	9'-9"	—
v(E)	20	#5	9'-11"	—
v1(E)	72	#5	3'-4"	—
v2(E)	72	#4	2'-11"	—
v3(E)	72	#5	2'-11"	—
Concrete Structures		Cu. Yd.	42.4	
Reinforcement Bars, Epoxy Coated		Pound	4600	
Structure Excavation		Cu. Yd.	156	
Furnishing Steel Piles HP12x53		Foot	240	
Driving Steel Piles		Foot	240	
Test Pile Steel HP12x53		Each	2	

ABUTMENT DETAILS
F.A.S. ROUTE 1671 - SECTION 144SBR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

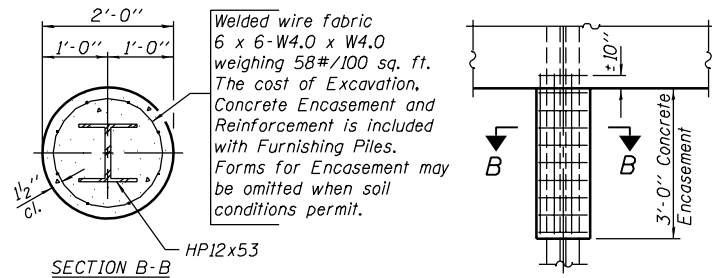
August 4, 2006
EXAMINED *Thomas J. Domagala*
PRINCIPAL ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

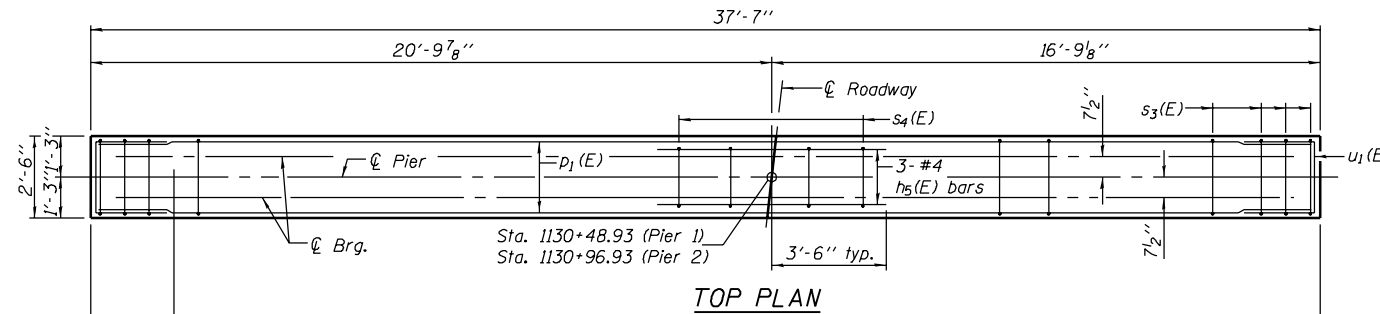
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	*	DOUGLAS	181	82
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 12
14 SHEETS

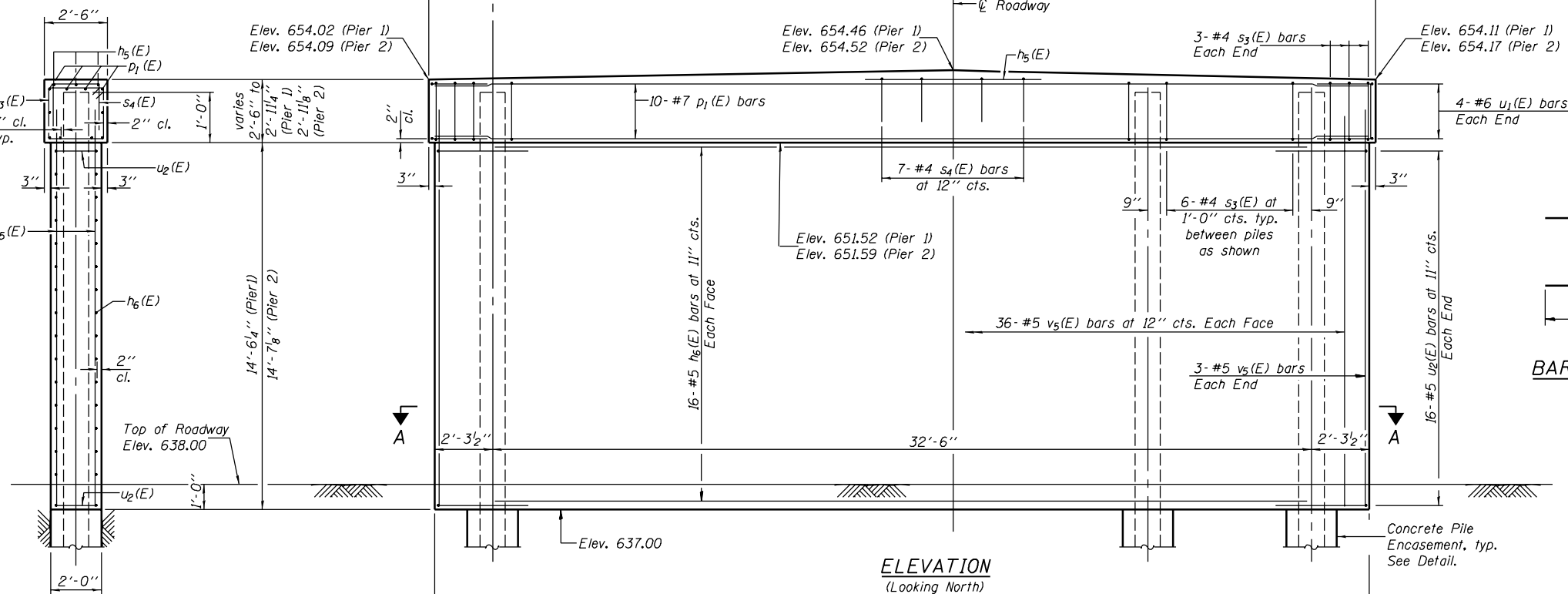
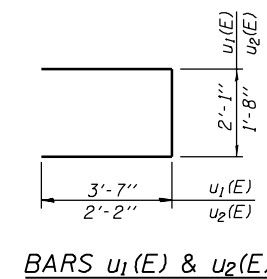
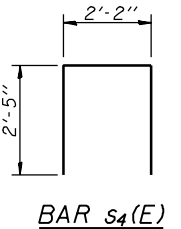
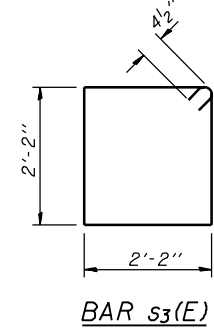
Contract #70258 *144SBR-2 & 22VBR-1



PILE ENCASEMENT DETAIL



TOP PLAN



ELEVATION
(Looking North)

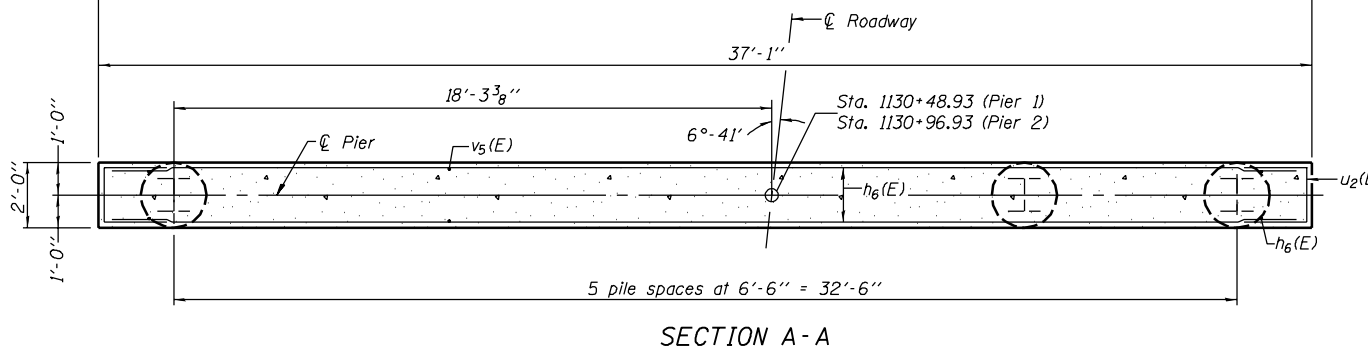
BILL OF MATERIAL
FOR TWO PIERS

Bar	No.	Size	Length	Shape
h5(E)	6	#4	7'-0"	—
h6(E)	64	#5	36'-9"	—
p1(E)	20	#7	37'-3"	—
s3(E)	72	#4	9'-5"	□
s4(E)	14	#4	7'-0"	□
u1(E)	16	#6	9'-3"	□
u2(E)	64	#5	6'-0"	□
v5(E)	156	#5	16'-6"	—
Concrete Structures		Cu. Yd.	99.0	
Reinforcement Bars, Epoxy Coated		Pound	7830	
Structure Excavation		Cu. Yd.	65	
Furnishing Steel Piles HP12x53		Foot	345	
Driving Steel Piles HP12x53		Foot	345	
Test Pile Steel HP12x53		Each	2	

Reinforcement Bars designated (E) shall be epoxy coated.

PIERS

F.A.S. ROUTE 1671 - SECTION 144SBR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062



SECTION A-A

Notes:
Space reinforcement in cap to miss
dowel rods.

PILE DATA

Type: HP12x53
Design Capacity: 51.4 tons
Required Bearing: 77.1 tons
Est. Length: 33 ft. (Pier 1) - 36 ft. (Pier 2)
No. Req'd: 5+1 test pile (Pier 1)
5+1 test pile (Pier 2)

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006
EXAMINED *Thomas J. Domagalaki*
PRINCIPAL ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	***	DOUGLAS	181	83
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 13
14 SHEETS

Contract #70258 ***144SBR-2 & 22VBR-1

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

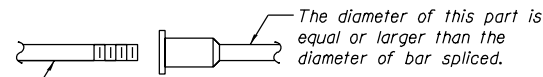
- ① Minimum Capacity = $1.25 \times f_y \times A_l$
(Tension in kips)
- ② Minimum *Pull-out Strength = $1.25 \times f_{s,allow} \times A_l$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s,allow}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_l = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

The diameter of this part is the same as the diameter of the bar spliced.

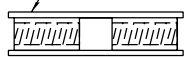


ROLLED THREAD DOWEL BAR



** ONE PIECE

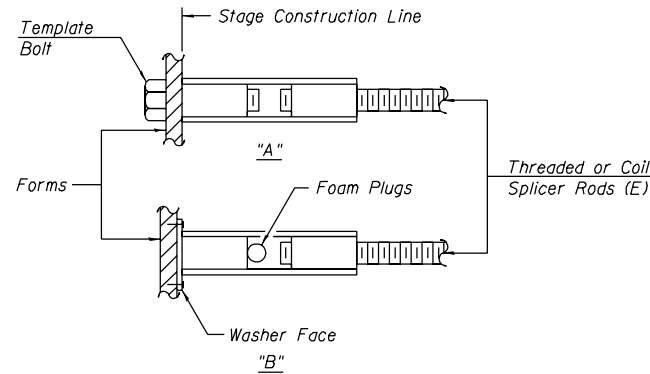
Wire Connector



WELDED SECTIONS

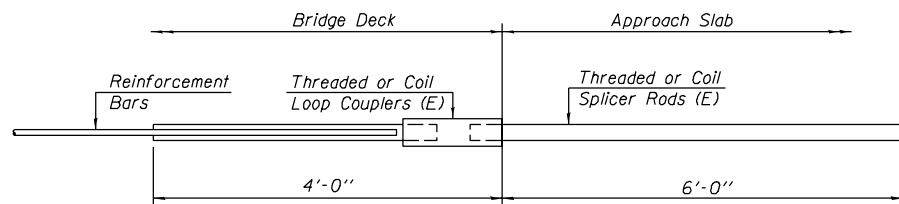
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



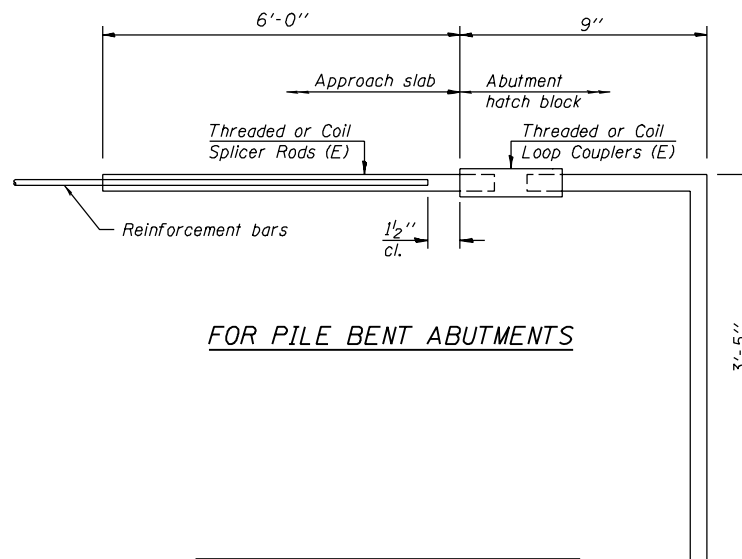
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



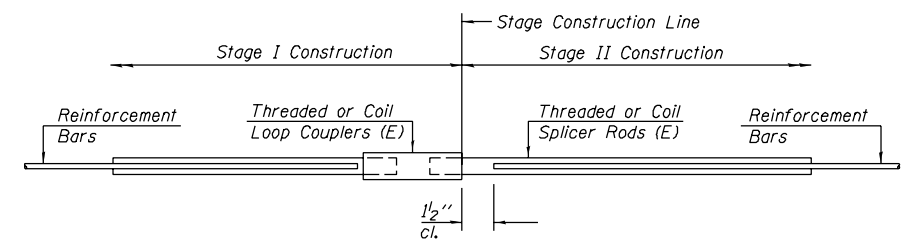
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	9.2 kips - tension
No. Required =	



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	9.2 kips - tension
No. Required =	72



STANDARD

Bar Size	No. Assemblies Required	Location

DESIGNED	SMR
CHECKED	PRL
DRAWN	BECKY M. LEACH
CHECKED	SMR/PRL

August 4, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 10-22-04

BAR SPLICER ASSEMBLY DETAILS
F.A.S. ROUTE 1671 - SECTION 144SBR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1671	*	DOUGLAS	181	84
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 14
14 SHEETS

Contract #70258 *1445BR-2 & 22VBR-1

Illinois Department of Transportation
Division of Highways
District 5 Materials

SOIL BORING LOG Page 1 of 2
Date 1904

ROUTE FAS 1671 (US 48) DESCRIPTION Rt. 48 over US 38 LOGGED BY CNA
SECTION 122VBR1BR LOCATION SE, SEC. 33, TWP. 16N, RNG. 08E, 3rd. PM
COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 021-0014
Station 1130+72.31

BORING NO. 1 North Abut.
Station 1131+26.4
Offset 10.0 ft. Rt.
Ground Surface Elev. 657.0 ft.

DEPTH (ft)	DRILLING METHOD	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	DRILLING METHOD	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
0		Pavement				0		Gray Clay Loam Till (continued)			
3						2					
4	2.1	Brown Mottled Silty Clay Loam				6	5.3				13
5	B					7	S				
6						7					
650.0		Brown Clay Loam Till				631.0		Brown Sand Loam Till			
3						38					
5	3.9					50.5'					7
9	S					31					
10						34					
645.0		Gray Clay Loam Till				625.0		Gray Sandy Clay Loam Till			
4						18					
9	6.1					34					7
16	S					43					
6						38					
9	6.2					43					
13	B					30					
4						9	7.2				11
10	7.2					12	S				
13	S					4					
4						9	7.2				11
12	S					12	S				

(Boring Deepened Below 35' on December 17, 2004)

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
District 5 Materials

SOIL BORING LOG Page 2 of 2
Date 1904

ROUTE FAS 1671 (US 48) DESCRIPTION Rt. 48 over US 38 LOGGED BY CNA
SECTION 122VBR1BR LOCATION SE, SEC. 33, TWP. 16N, RNG. 08E, 3rd. PM
COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 021-0014
Station 1130+72.31

BORING NO. 1 North Abut.
Station 1131+26.4
Offset 10.0 ft. Rt.
Ground Surface Elev. 657.0 ft.

DEPTH (ft)	DRILLING METHOD	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	DRILLING METHOD	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
15						26	9.6				8
26						36	S				
20						31					
31						34					
607.0		Gray Very Coarse Sand Seam				607.0		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
District 5 Materials

SOIL BORING LOG Page 1 of 1
Date 1904

ROUTE FAS 1671 (US 48) DESCRIPTION Rt. 48 over US 38 LOGGED BY CNA
SECTION 122VBR1BR LOCATION SE, SEC. 33, TWP. 16N, RNG. 08E, 3rd. PM
COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 021-0014
Station 1130+72.31

BORING NO. 2 South Abut.
Station 1130+17.4
Offset 10.0 ft. Lt.
Ground Surface Elev. 656.9 ft.

DEPTH (ft)	DRILLING METHOD	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	DRILLING METHOD	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
2						2	1.5				29
3						3	S				
1						1	1.0				22
2						2	B				
648.9		Brown Clay Loam Till				630.4		Brown Sand Loam Till			
1						48					
4	5.9					50.4'					7
9	B					30					
644.9		Gray Clay Loam Till				623.9		Gray Sandy Clay Loam Till			
4						8					
13	5.9					28	8.3				7
14	B					32	S				
4						6					
11	7.0					11					
13	S					10	7.4				11
6						12	S				
4						8	7.9				11
10	S					10	S				

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)

BORING LOGS
F.A.S. ROUTE 1671 - SECTION 1445BR-2
DOUGLAS COUNTY
STATION 1130+72.93
STRUCTURE NO. 021-0062

Bench Mark: Chiseled "□" top of northeast wingwall of S.N. 021-0013. Elevation 680.86.

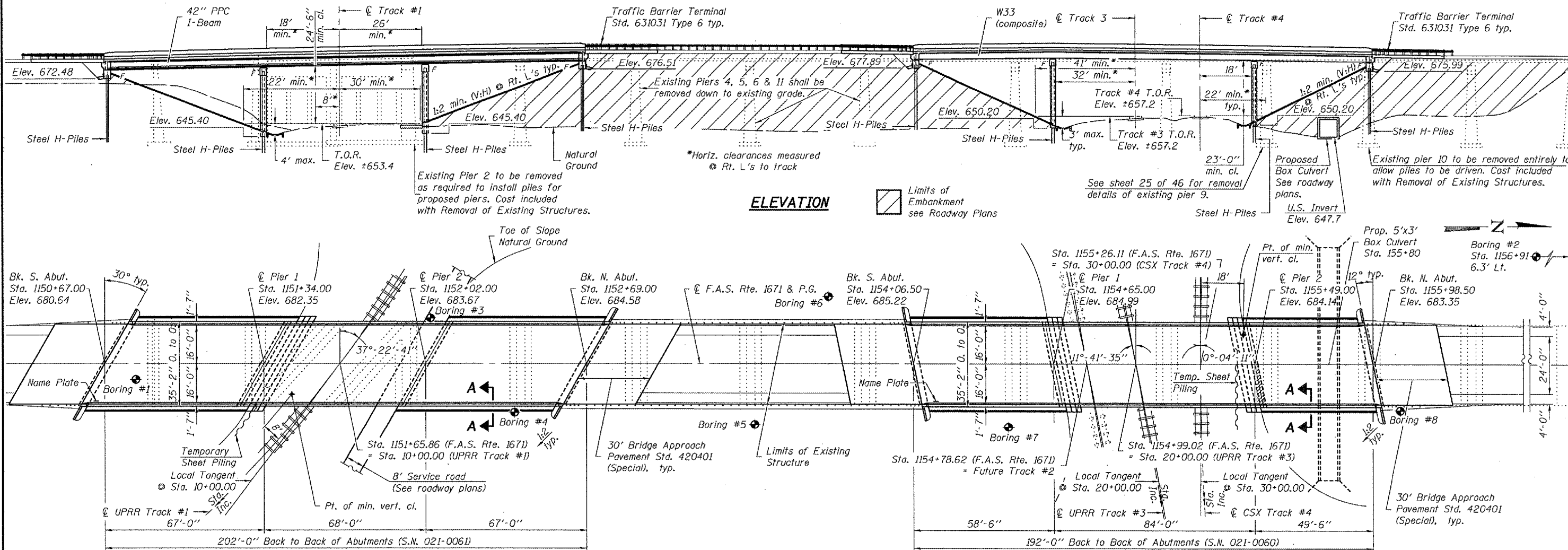
Existing Structure: S.N. 021-0013 built 1927 as S.B.I. Route 25, Section 22V at Station 1153+86.5.
 Superstructure replaced in 1975 as F.A. Route 26, Section 22 VBR. Structure consists of 14 span pre-cast deck beams on multi-column piers and spill-thru counterfort abuts. 594'-11 3/4" back-to-back abutments. 33'-0" out-to-out deck. Structure to be removed and replaced. Road to be closed and traffic detoured during construction.

No salvage

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	SUBDIV.	SHEET	SHEET NO.
F.A.S. 1671	‡	DOUGLAS	181	85
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract #70258
 ‡ 22VBR-1 and 1445BR-2



Notes:
 See sheet 2 of 46 for Section A-A.
 Up to 1/4" will be ground off the bridge slab and the bridge approach pavement.
 The profile grade shows the final elevations after grinding.

DESIGNED	August 4, 2006
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	



EXPIRES 11-30-2006

LOADING HS20-44
 Allow 50#/sq. ft. for future wearing surface.
DESIGN SPECIFICATIONS
 2002 AASHTO

DESIGN STRESSES

FIELD UNITS

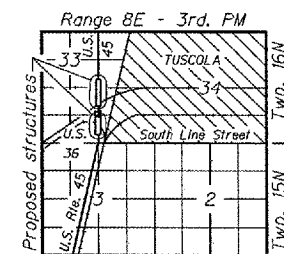
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (AASHTO M270 Grade 50W)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ low lax strands)
 $f_{si} = 201,960$ psi (1/2" ϕ low lax strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 4.9%g
 Site Coefficient (S) = 1.2



LOCATION SKETCH

GENERAL PLAN & ELEVATION
U.S. ROUTE 45 OVER
UNION PACIFIC & CSX RAILROADS
F.A.S. ROUTE 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86 (SOUTH)
STATION 1154+99.02 (NORTH)
STRUCTURE NO. 021-0061 (SOUTH)
STRUCTURE NO. 021-0060 (NORTH)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.S. 1671	SECTION ‡	COUNTY DOUGLAS	TOTAL SHEETS 181	SHEET NO. 86
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 2
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2

**GENERAL NOTES FOR
BOTH STRUCTURES**

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

All Construction joints shall be bonded.

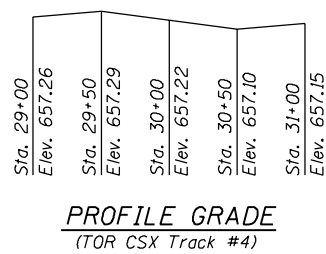
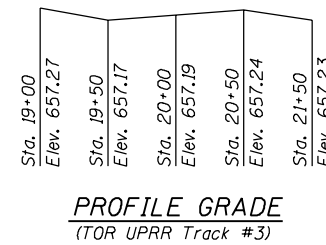
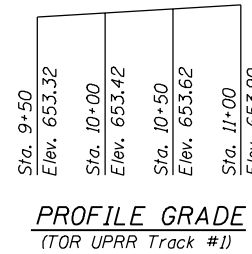
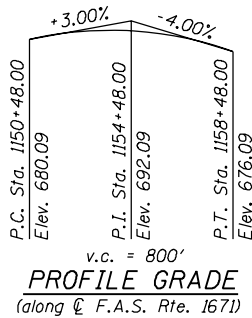
Sloped wall 4" shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 Lbs. per 100 sq. ft.

The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing procedures for removal of the existing structure. Before starting work, the contractor shall submit a demolition procedure for the removal of the existing structure to the Engineer for approval. The demolition procedure is to be prepared by an Illinois licensed structural engineer. Cost included with Removal of Existing Structures.

Embankment between the bridges shall be placed prior to any bridge construction.

**BOTH STRUCTURES
TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		271	271
Removal of Existing Structures No. 2	Each			1.0
Structure Excavation	Cu. Yd.		582	582
Driving Steel Piles	Foot		3155	3155
Concrete Structures	Cu. Yd.		521.4	521.4
Concrete Superstructure	Cu. Yd.	495.2		495.2
Bridge Deck Grooving	Sq. Yd.	1313		1313
Protective Coat	Sq. Yd.	1730		1730
Furnishing and Erecting Precast Prestressed Concrete I Beams, 42"	Foot	1195		1195
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3330		3330
Reinforcement Bars, Epoxy Coated	Pound	100990	36660	137650
Sloped wall 4"	Sq. Yd.		57	57
Bituminous Coated Aggregate Sloped wall 6"	Sq. Yd.		1105	1105
Furnishing Steel Piles HP 12x53	Foot		2135	2135
Furnishing Steel Piles HP 12x63	Foot		325	325
Furnishing Steel Piles HP 12x74	Foot		695	695
Test Pile Steel HP 12x53	Each		5	5
Test Pile Steel HP 12x63	Each		1	1
Test Pile Steel HP 12x74	Each		2	2
Temporary Sheet Piling	Sq. Ft.		416	416
Name Plates	Each	2		2
Geocomposite Wall Drain	Sq. Yd.		148	148
Pipe Underdrains for Structures, 4"	Foot		286	286
Diamond Grinding (Bridge Section)	Sq. Yd.	1673		1673
Bar Splicers	Each	128		128

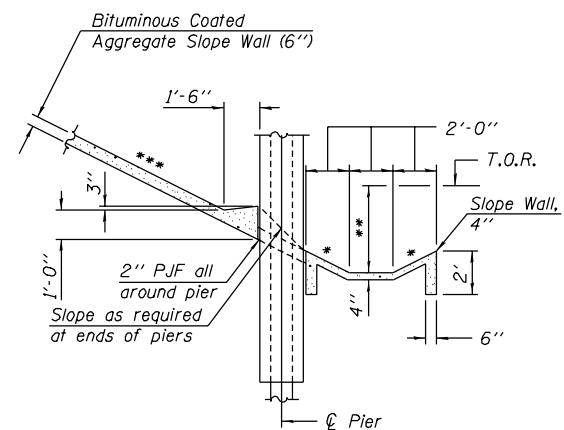


CURVE DATA
(C UPRR Track #1)
P.I. Sta. = 10+70.24
Δ = 36°-13'-31"
D = 10°-09'-42"
R = 563.85'
T = 184.43'
L = 356.49'
P.C. Sta. = 8+85.81
P.T. Sta. = 12+42.30

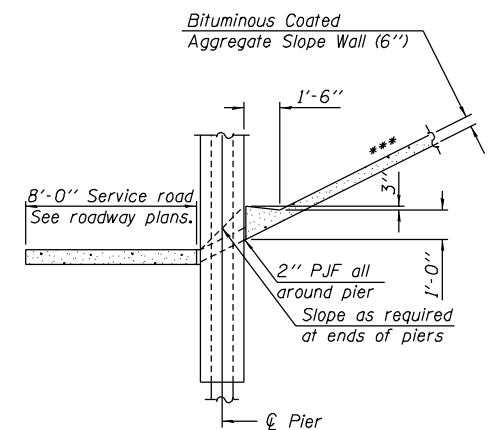
CURVE DATA
(C UPRR Track #3)
P.I. Sta. = 18+53.36
Δ = 8°-50'-20"
D = 2°-24'-26"
R = 2,380.04'
T = 183.95'
L = 367.16'
P.C. Sta. = 16+69.42
P.T. Sta. = 20+36.58

CURVE DATA
(C CSX Track #4)
P.I. Sta. = 30+11.16
Δ = 16°-36'-20"
D = 4°-53'-52"
R = 1,169.81'
T = 170.72'
L = 339.04'
P.C. Sta. = 28+40.44
P.T. Sta. = 31+79.48

INDEX OF SHEETS
(both structures)
1 - 2 General Plan & Elevation and Details
3 - 24 Bridge Plans (021-0061)
25 - 43 Bridge Plans (021-0060)
44 - 46 Soil Boring Logs

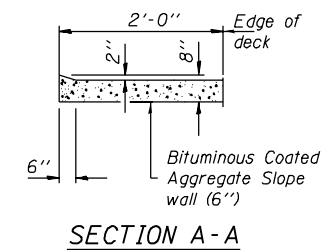


SECTION THRU SLOPEWALL
Horiz. dim. @ Rt. L's
(At Pier 1 of 021-0061 and Piers 1 and 2 of 021-0060).



SECTION THRU SLOPEWALL
Horiz. dim. @ Rt. L's
(At Pier 2 of 021-0061).

- * 1:4 (V:H)
- ** 4'-0" Max. (021-0061)
3'-0" Max. (021-0060)
- *** 1:2 (V:H) minimum slope at right angles. Slope bituminous coated aggregate sloped wall to match the concrete sloped wall.



DETAILS
U.S. ROUTE 45 OVER
UNION PACIFIC & CSX RAILROADS
F.A.S. ROUTE 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86 (SOUTH)
STATION 1154+99.02 (NORTH)
STRUCTURE NO. 021-0061 (SOUTH)
STRUCTURE NO. 021-0060 (NORTH)

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

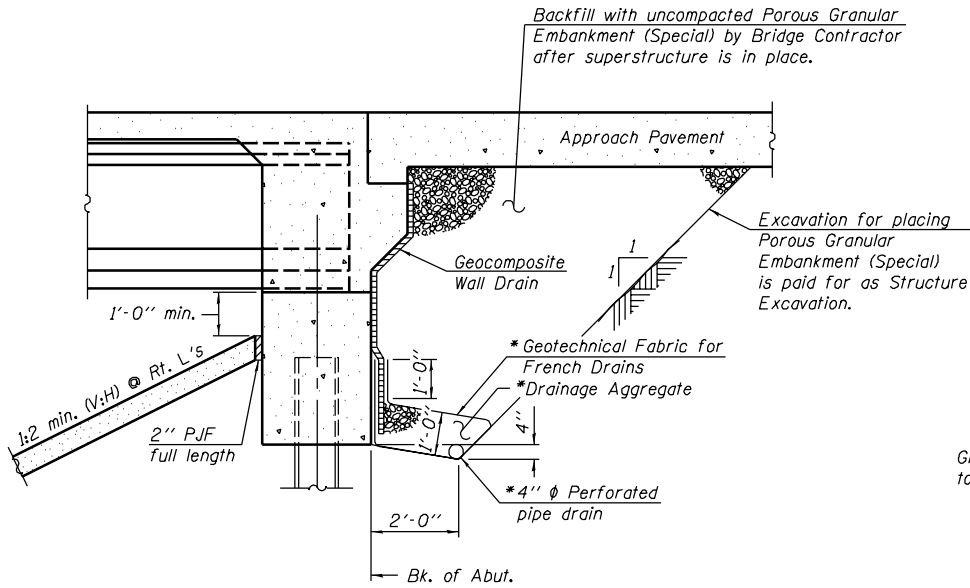
August 4, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1671	‡	DOUGLAS	181	87
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 3
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2



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

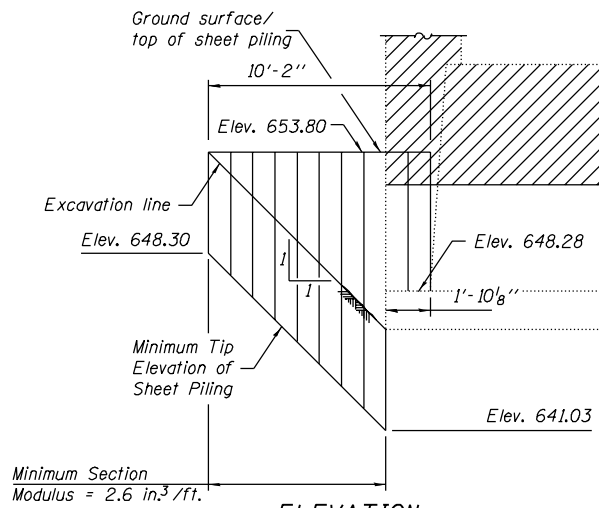
* Included in the cost of Pipe Underdrains for Structures, 4".

Notes:

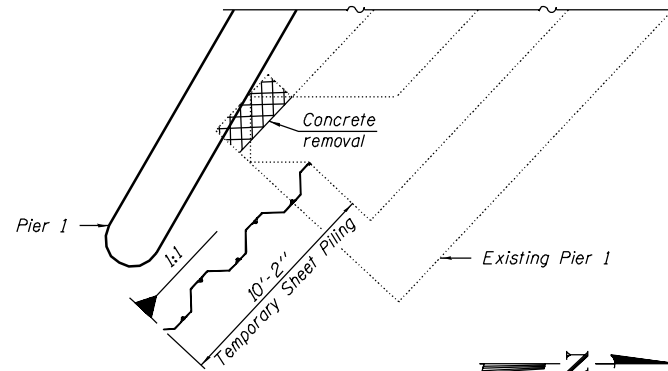
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

STATION 1151+65.86
BUILT 200 BY
STATE OF ILLINOIS
F.A.S. RT. 1671 SEC. 22VBR-1
LOADING HS20-44
STR. NO. 021-0061

NAME PLATE
See Std. 515001



ELEVATION



PLAN
(at Pier 1)

TEMPORARY SHEET PILING

INDEX OF SHEETS

(for 021-0061)

- 3 General Details
- 4 - 9 Top of Slab Elevations
- 10 Superstructure
- 11 Superstructure Details
- 12 - 13 Diaphragm Details
- 14 Framing Plan
- 15 - 16 42" PPC I Beam
- 17 42" PPC I Beam Details
- 18 Anchor Bolt Details
- 19 South Abutment
- 20 North Abutment
- 21 Abutment Details
- 22 Pier 1
- 23 Pier 2
- 24 Bar Splicer Assembly Details

GENERAL NOTES

The Contractor shall drive three (3) HP 12x53 test piles in a permanent location, one at the South Abutment and one at each pier, and one (1) HP 12x63 test pile in a permanent location at the North Abutment as directed by the Engineer before ordering the remainder of the piles.

Notes:

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

The Contractor shall connect the first sheet to the existing pier wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

STRUCTURE NO. 021-0061
BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		161	161
Removal of Existing Structures No. 2	Each			0.5
Structure Excavation	Cu. Yd.		346	346
Driving Steel Piles	Foot		1815	1815
Concrete Structures	Cu. Yd.		289.8	289.8
Concrete Superstructure	Cu. Yd.	262.9		262.9
Bridge Deck Grooving	Sq. Yd.	673		673
Protective Coat	Sq. Yd.	887		887
Furnishing and Erecting Precast Prestressed Concrete I Beams, 42"	Foot	1195		1195
Reinforcement Bars, Epoxy Coated	Pound	51390	20910	72300
Slopedwall 4"	Sq. Yd.		30	30
Bituminous Coated Aggregate Slopedwall 6"	Sq. Yd.		616	616
Furnishing Steel Piles HP 12x53	Foot		1490	1490
Furnishing Steel Piles HP 12x63	Foot		325	325
Test Pile Steel HP 12x53	Each		3	3
Test Pile Steel HP 12x63	Each		1	1
Temporary Sheet Piling	Sq. Ft.		86	86
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		86	86
Pipe Underdrains for Structures, 4"	Foot		154	154
Diamond Grinding (Bridge Section)	Sq. Yd.	852		852
Bar Splicers	Each	64		64

GENERAL DETAILS
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

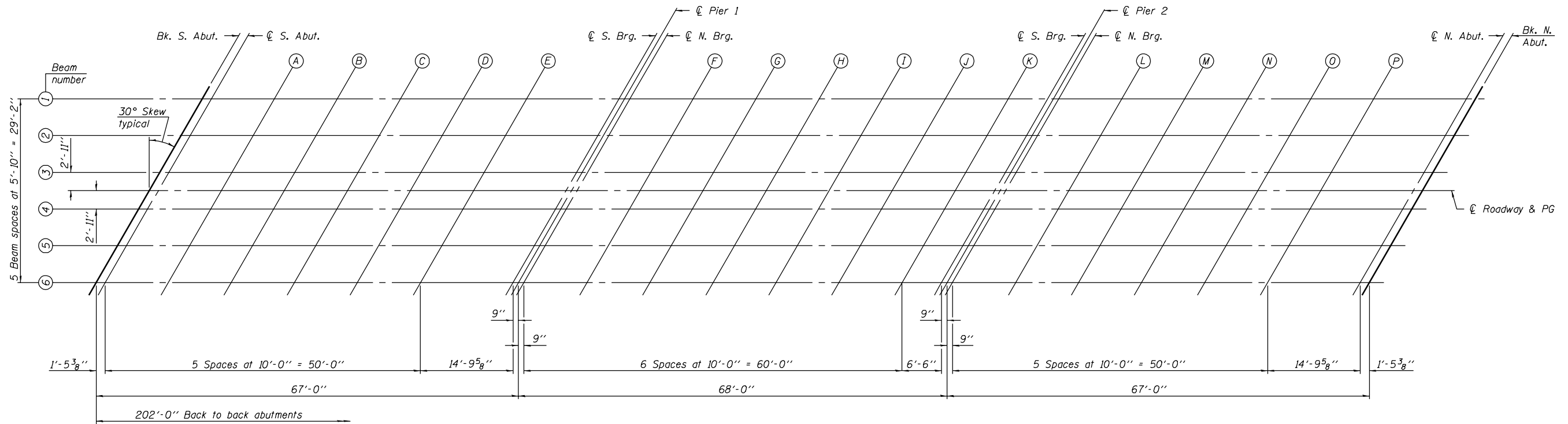
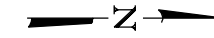
EXAMINED	August 4, 2006
PASSED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.S. 1671	SECTION ‡	COUNTY DOUGLAS	TOTAL SHEETS 181	SHEET NO. 88
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 4
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2



PLAN

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

EXAMINED	August 4, 2006
PASSED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1671	‡	DOUGLAS	181	89
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 5
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1150+75.42	-14.58	680.64	680.66
☉ S. Abut.	1150+76.86	-14.58	680.68	680.70
A	1150+86.86	-14.58	680.95	680.99
B	1150+96.86	-14.58	681.21	681.27
C	1151+06.86	-14.58	681.46	681.53
D	1151+16.86	-14.58	681.71	681.77
E	1151+26.86	-14.58	681.94	681.99
☉ S. Brg.	1151+41.67	-14.58	682.28	682.30
☉ Pier 1	1151+42.42	-14.58	682.29	682.31
☉ N. Brg.	1151+43.17	-14.58	682.31	682.33
F	1151+53.17	-14.58	682.52	682.56
G	1151+63.17	-14.58	682.72	682.79
H	1151+73.17	-14.58	682.92	682.99
I	1151+83.17	-14.58	683.11	683.17
J	1151+93.17	-14.58	683.28	683.34
K	1152+03.17	-14.58	683.45	683.49
☉ S. Brg.	1152+09.67	-14.58	683.56	683.58
☉ Pier 2	1152+10.42	-14.58	683.57	683.59
☉ N. Brg.	1152+11.17	-14.58	683.58	683.60
L	1152+21.17	-14.58	683.73	683.77
M	1152+31.17	-14.58	683.88	683.93
N	1152+41.17	-14.58	684.01	684.08
O	1152+51.17	-14.58	684.14	684.20
P	1152+61.17	-14.58	684.26	684.31
☉ N. Abut.	1152+75.98	-14.58	684.41	684.43
Bk. N. Abut.	1152+77.42	-14.58	684.43	684.45

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1150+72.05	-8.75	680.65	680.67
☉ S. Abut.	1150+73.50	-8.75	680.69	680.71
A	1150+83.50	-8.75	680.96	681.01
B	1150+93.50	-8.75	681.23	681.29
C	1151+03.50	-8.75	681.48	681.55
D	1151+13.50	-8.75	681.73	681.79
E	1151+23.50	-8.75	681.97	682.02
☉ S. Brg.	1151+38.30	-8.75	682.31	682.33
☉ Pier 1	1151+39.05	-8.75	682.32	682.34
☉ N. Brg.	1151+39.80	-8.75	682.34	682.36
F	1151+49.80	-8.75	682.55	682.60
G	1151+59.80	-8.75	682.76	682.82
H	1151+69.80	-8.75	682.96	683.03
I	1151+79.80	-8.75	683.15	683.22
J	1151+89.80	-8.75	683.33	683.39
K	1151+99.80	-8.75	683.50	683.53
☉ S. Brg.	1152+06.30	-8.75	683.61	683.63
☉ Pier 2	1152+07.05	-8.75	683.62	683.64
☉ N. Brg.	1152+07.80	-8.75	683.63	683.65
L	1152+17.80	-8.75	683.79	683.83
M	1152+27.80	-8.75	683.93	683.99
N	1152+37.80	-8.75	684.07	684.14
O	1152+47.80	-8.75	684.20	684.26
P	1152+57.80	-8.75	684.32	684.37
☉ N. Abut.	1152+72.61	-8.75	684.48	684.50
Bk. N. Abut.	1152+74.05	-8.75	684.50	684.52

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1150+68.68	-2.92	680.65	680.67
☉ S. Abut.	1150+70.13	-2.92	680.69	680.71
A	1150+80.13	-2.92	680.96	681.01
B	1150+90.13	-2.92	681.23	681.29
C	1151+00.13	-2.92	681.49	681.56
D	1151+10.13	-2.92	681.74	681.80
E	1151+20.13	-2.92	681.98	682.03
☉ S. Brg.	1151+34.93	-2.92	682.32	682.34
☉ Pier 1	1151+35.68	-2.92	682.34	682.36
☉ N. Brg.	1151+36.43	-2.92	682.36	682.38
F	1151+46.43	-2.92	682.57	682.62
G	1151+56.43	-2.92	682.78	682.85
H	1151+66.43	-2.92	682.98	683.06
I	1151+76.43	-2.92	683.18	683.24
J	1151+86.43	-2.92	683.36	683.42
K	1151+96.43	-2.92	683.53	683.57
☉ S. Brg.	1152+02.93	-2.92	683.64	683.66
☉ Pier 2	1152+03.68	-2.92	683.66	683.68
☉ N. Brg.	1152+04.43	-2.92	683.67	683.69
L	1152+14.43	-2.92	683.83	683.87
M	1152+24.43	-2.92	683.98	684.03
N	1152+34.43	-2.92	684.12	684.18
O	1152+44.43	-2.92	684.25	684.31
P	1152+54.43	-2.92	684.37	684.43
☉ N. Abut.	1152+69.24	-2.92	684.54	684.56
Bk. N. Abut.	1152+70.68	-2.92	684.56	684.58

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

August 4, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1671	‡	DOUGLAS	181	90
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2

☉ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1150+67.00	0.00	680.64	680.66
☉ S. Abut.	1150+68.44	0.00	680.69	680.71
A	1150+78.44	0.00	680.96	681.00
B	1150+88.44	0.00	681.23	681.29
C	1150+98.44	0.00	681.49	681.56
D	1151+08.44	0.00	681.74	681.81
E	1151+18.44	0.00	681.99	682.04
☉ S. Brg.	1151+33.25	0.00	682.33	682.35
☉ Pier 1	1151+34.00	0.00	682.35	682.37
☉ N. Brg.	1151+34.75	0.00	682.36	682.38
F	1151+44.75	0.00	682.58	682.63
G	1151+54.75	0.00	682.79	682.86
H	1151+64.75	0.00	683.00	683.07
I	1151+74.75	0.00	683.19	683.26
J	1151+84.75	0.00	683.37	683.43
K	1151+94.75	0.00	683.55	683.59
☉ S. Brg.	1152+01.25	0.00	683.66	683.68
☉ Pier 2	1152+02.00	0.00	683.67	683.69
☉ N. Brg.	1152+02.75	0.00	683.69	683.71
L	1152+12.75	0.00	683.85	683.89
M	1152+22.75	0.00	684.00	684.05
N	1152+32.75	0.00	684.14	684.21
O	1152+42.75	0.00	684.27	684.34
P	1152+52.75	0.00	684.40	684.45
☉ N. Abut.	1152+67.56	0.00	684.57	684.59
Bk. N. Abut.	1152+69.00	0.00	684.58	684.60

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1150+65.32	2.92	680.55	680.57
☉ S. Abut.	1150+66.76	2.92	680.59	680.61
A	1150+76.76	2.92	680.87	680.91
B	1150+86.76	2.92	681.14	681.20
C	1150+96.76	2.92	681.40	681.47
D	1151+06.76	2.92	681.66	681.72
E	1151+16.76	2.92	681.90	681.95
☉ S. Brg.	1151+31.57	2.92	682.25	682.27
☉ Pier 1	1151+32.32	2.92	682.26	682.28
☉ N. Brg.	1151+33.07	2.92	682.28	682.30
F	1151+43.07	2.92	682.50	682.54
G	1151+53.07	2.92	682.71	682.78
H	1151+63.07	2.92	682.92	682.99
I	1151+73.07	2.92	683.11	683.18
J	1151+83.07	2.92	683.30	683.36
K	1151+93.07	2.92	683.48	683.51
☉ S. Brg.	1151+99.57	2.92	683.59	683.61
☉ Pier 2	1152+00.32	2.92	683.60	683.62
☉ N. Brg.	1152+01.07	2.92	683.61	683.63
L	1152+11.07	2.92	683.77	683.81
M	1152+21.07	2.92	683.93	683.98
N	1152+31.07	2.92	684.07	684.14
O	1152+41.07	2.92	684.21	684.27
P	1152+51.07	2.92	684.33	684.38
☉ N. Abut.	1152+65.87	2.92	684.50	684.52
Bk. N. Abut.	1152+67.32	2.92	684.52	684.54

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1150+61.95	8.75	680.36	680.38
☉ S. Abut.	1150+63.39	8.75	680.41	680.43
A	1150+73.39	8.75	680.69	680.73
B	1150+83.39	8.75	680.96	681.02
C	1150+93.39	8.75	681.23	681.29
D	1151+03.39	8.75	681.48	681.54
E	1151+13.39	8.75	681.73	681.78
☉ S. Brg.	1151+28.20	8.75	682.08	682.10
☉ Pier 1	1151+28.95	8.75	682.10	682.12
☉ N. Brg.	1151+29.70	8.75	682.11	682.13
F	1151+39.70	8.75	682.34	682.38
G	1151+49.70	8.75	682.55	682.61
H	1151+59.70	8.75	682.76	682.83
I	1151+69.70	8.75	682.96	683.02
J	1151+79.70	8.75	683.15	683.20
K	1151+89.70	8.75	683.33	683.36
☉ S. Brg.	1151+96.20	8.75	683.44	683.46
☉ Pier 2	1151+96.95	8.75	683.45	683.47
☉ N. Brg.	1151+97.70	8.75	683.46	683.48
L	1152+07.70	8.75	683.63	683.67
M	1152+17.70	8.75	683.78	683.84
N	1152+27.70	8.75	683.93	684.00
O	1152+37.70	8.75	684.07	684.13
P	1152+47.70	8.75	684.20	684.25
☉ N. Abut.	1152+62.51	8.75	684.38	684.40
Bk. N. Abut.	1152+63.95	8.75	684.39	684.41

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

August 4, 2006
EXAMINED <i>Thomas J. Domagala</i>
PASSED <i>Ralph E. Anderson</i>

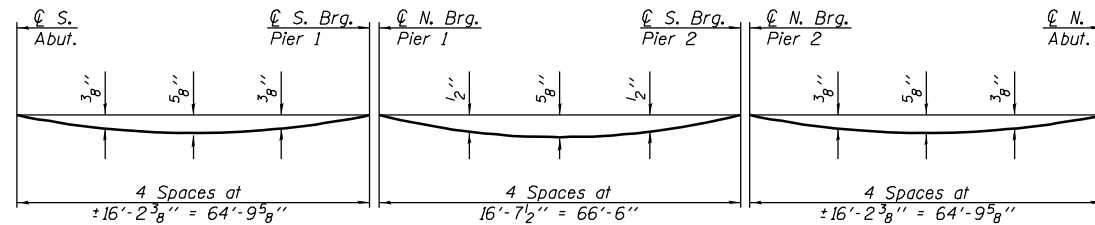
TOP OF SLAB ELEVATIONS
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1671	‡	DOUGLAS	181	91
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 7
46 SHEETS

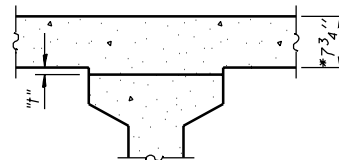
Contract #70258
‡ 22VBR-1 and 144SBR-2



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on sheets 5 through 7 of 46.



* Prior to grinding

To determine "h": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 4 of 46. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections and Grinding" shown on sheets 5 through 7 of 46, minus the 7 3/4'' deck thickness, equals the fillet heights "h" above top flanges of beams. The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on sheets 5 through 7 of 46. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1150+58.58	14.58	680.16	680.18
☉ S. Abut.	1150+60.02	14.58	680.20	680.22
A	1150+70.02	14.58	680.49	680.53
B	1150+80.02	14.58	680.77	680.82
C	1150+90.02	14.58	681.03	681.10
D	1151+00.02	14.58	681.29	681.35
E	1151+10.02	14.58	681.54	681.59
☉ S. Brg.	1151+24.83	14.58	681.90	681.92
☉ Pier 1	1151+25.58	14.58	681.91	681.93
☉ N. Brg.	1151+26.33	14.58	681.93	681.95
F	1151+36.33	14.58	682.16	682.20
G	1151+46.33	14.58	682.38	682.44
H	1151+56.33	14.58	682.59	682.66
I	1151+66.33	14.58	682.79	682.85
J	1151+76.33	14.58	682.98	683.04
K	1151+86.33	14.58	683.16	683.20
☉ S. Brg.	1151+92.83	14.58	683.28	683.30
☉ Pier 2	1151+93.58	14.58	683.29	683.31
☉ N. Brg.	1151+94.33	14.58	683.30	683.32
L	1152+04.33	14.58	683.47	683.51
M	1152+14.33	14.58	683.63	683.69
N	1152+24.33	14.58	683.78	683.85
O	1152+34.33	14.58	683.92	683.98
P	1152+44.33	14.58	684.05	684.10
☉ N. Abut.	1152+59.14	14.58	684.23	684.25
Bk. N. Abut.	1152+60.58	14.58	684.25	684.27

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

EXAMINED	August 4, 2006
PASSED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.S. 1671	SECTION ‡	COUNTY DOUGLAS	TOTAL SHEETS 181	SHEET NO. 92
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 8
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End S. Appr. Pav't.	1150+46.24	-16.00	679.77	679.79
A	1150+56.24	-16.00	680.06	680.08
B	1150+66.24	-16.00	680.35	680.37
Bk. S. Abut.	1150+76.24	-16.00	680.63	680.65

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End S. Appr. Pav't.	1150+43.93	-12.00	679.78	679.80
A	1150+53.93	-12.00	680.08	680.10
B	1150+63.93	-12.00	680.37	680.39
Bk. S. Abut.	1150+73.93	-12.00	680.65	680.67

☉ ROADWAY & PG

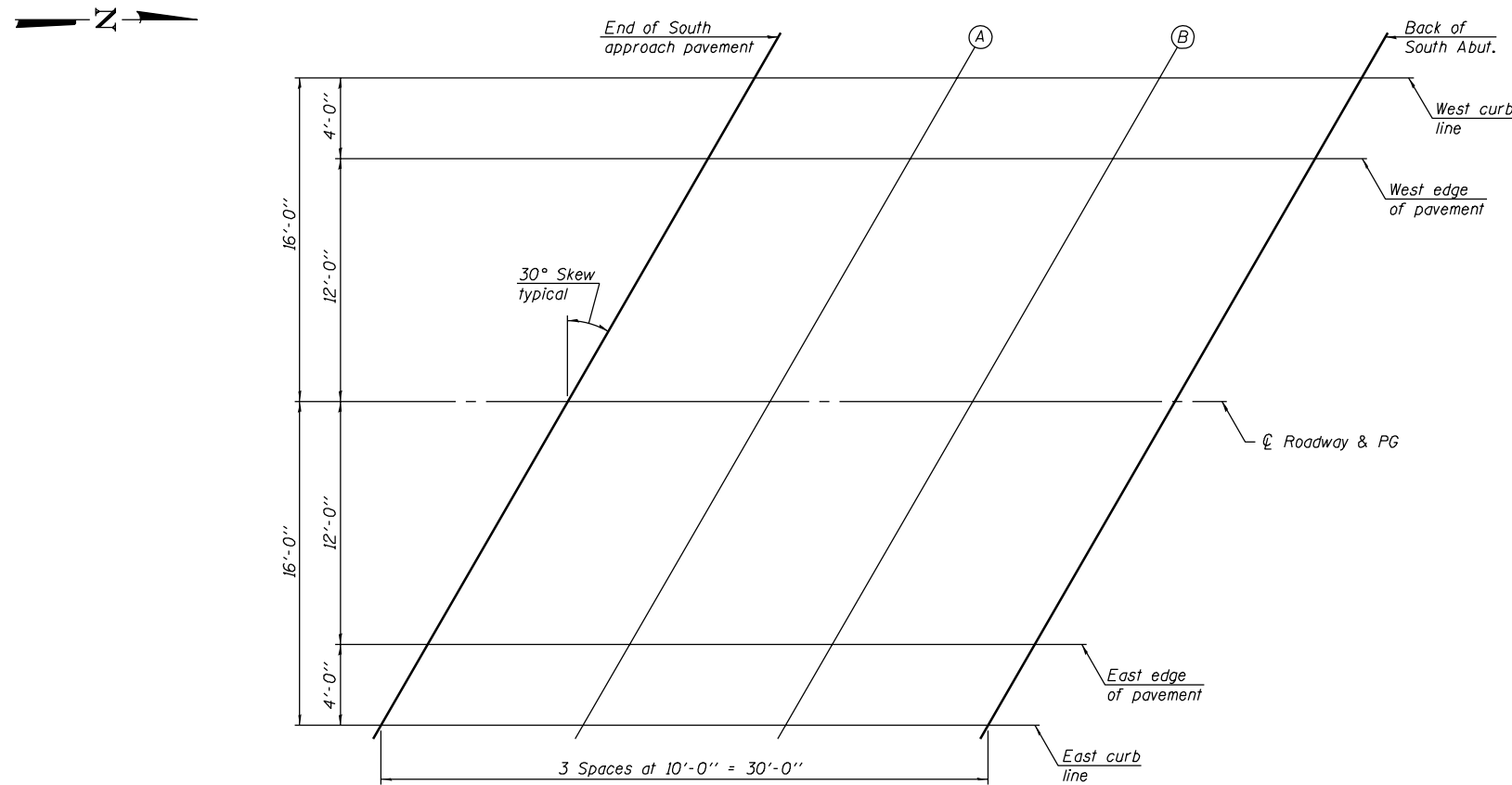
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End S. Appr. Pav't.	1150+37.00	0.00	679.76	679.78
A	1150+47.00	0.00	680.06	680.08
B	1150+57.00	0.00	680.36	680.38
Bk. S. Abut.	1150+67.00	0.00	680.64	680.66

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End S. Appr. Pav't.	1150+30.07	12.00	679.36	679.38
A	1150+40.07	12.00	679.66	679.68
B	1150+50.07	12.00	679.96	679.98
Bk. S. Abut.	1150+60.07	12.00	680.26	680.28

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End S. Appr. Pav't.	1150+27.76	16.00	679.21	679.23
A	1150+37.76	16.00	679.51	679.53
B	1150+47.76	16.00	679.81	679.83
Bk. S. Abut.	1150+57.76	16.00	680.11	680.13



PLAN

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

August 4, 2006

EXAMINED *Thomas J. Domagalak*
ENGINEER OF BRIDGE DESIGN

PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SOUTH APPROACH
SLAB ELEVATIONS
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.S. 1671	SECTION ‡	COUNTY DOUGLAS	TOTAL SHEETS 181	SHEET NO. 93
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 9
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
Bk. N. Abut.	1152+78.24	-16.00	684.41	684.43
A	1152+88.24	-16.00	684.50	684.52
B	1152+98.24	-16.00	684.59	684.61
End N. Appr. Pav't.	1153+08.24	-16.00	684.66	684.68

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
Bk. N. Abut.	1152+75.93	-12.00	684.47	684.49
A	1152+85.93	-12.00	684.56	684.58
B	1152+95.93	-12.00	684.65	684.67
End N. Appr. Pav't.	1153+05.93	-12.00	684.73	684.75

☉ ROADWAY & PG

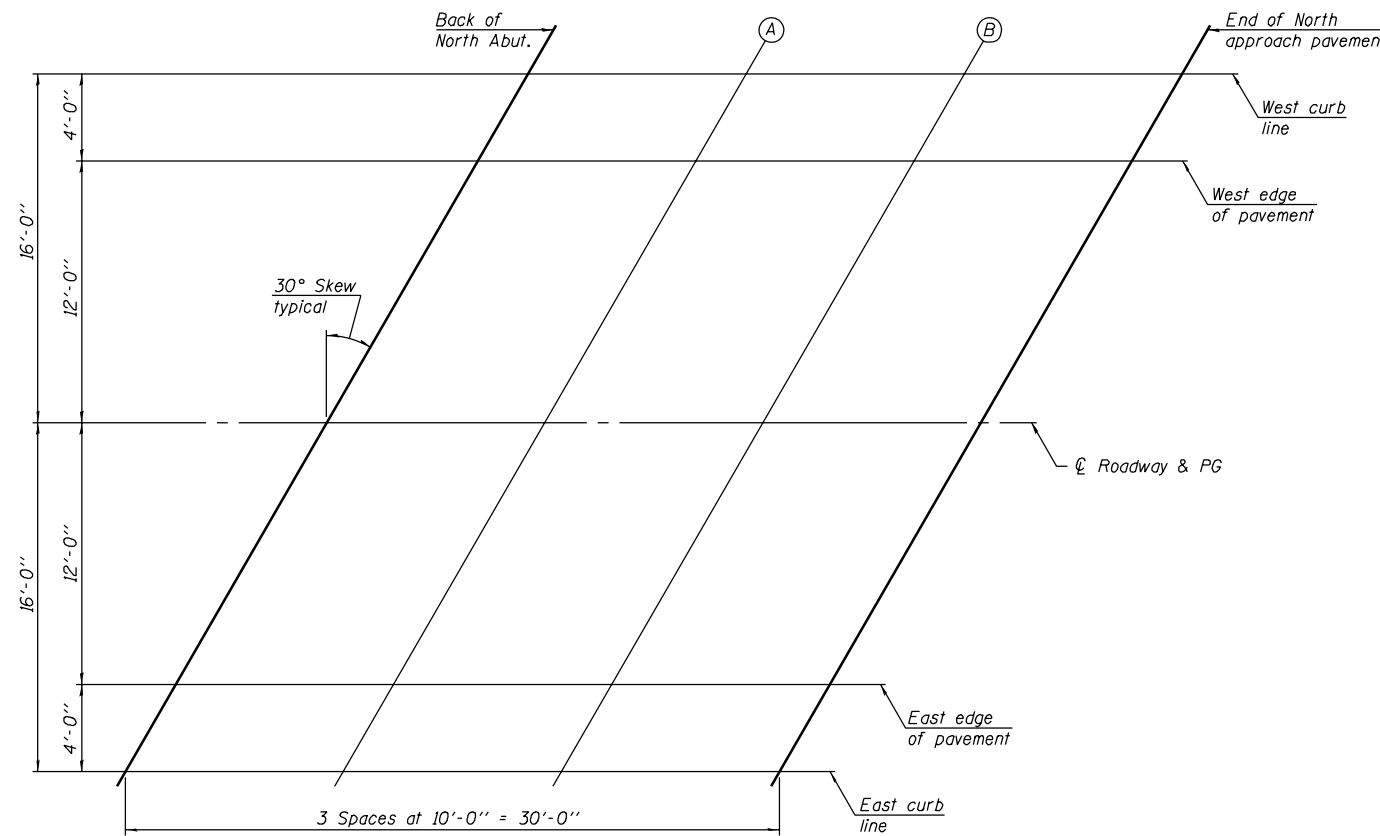
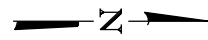
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
Bk. N. Abut.	1152+69.00	0.00	684.58	684.60
A	1152+79.00	0.00	684.69	684.71
B	1152+89.00	0.00	684.78	684.80
End N. Appr. Pav't.	1152+99.00	0.00	684.86	684.88

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
Bk. N. Abut.	1152+62.07	12.00	684.32	684.34
A	1152+72.07	12.00	684.43	684.45
B	1152+82.07	12.00	684.53	684.55
End N. Appr. Pav't.	1152+92.07	12.00	684.62	684.64

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
Bk. N. Abut.	1152+59.76	16.00	684.21	684.23
A	1152+69.76	16.00	684.32	684.34
B	1152+79.76	16.00	684.42	684.44
End N. Appr. Pav't.	1152+89.76	16.00	684.52	684.54



PLAN

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

August 4, 2006
 EXAMINED *Thomas J. Domagalak*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

TOP OF NORTH APPROACH
SLAB ELEVATIONS
 F.A.S. RT. 1671 - SEC. 22VBR-1
 DOUGLAS COUNTY
 STATION 1151+65.86
 STRUCTURE NO. 021-0061

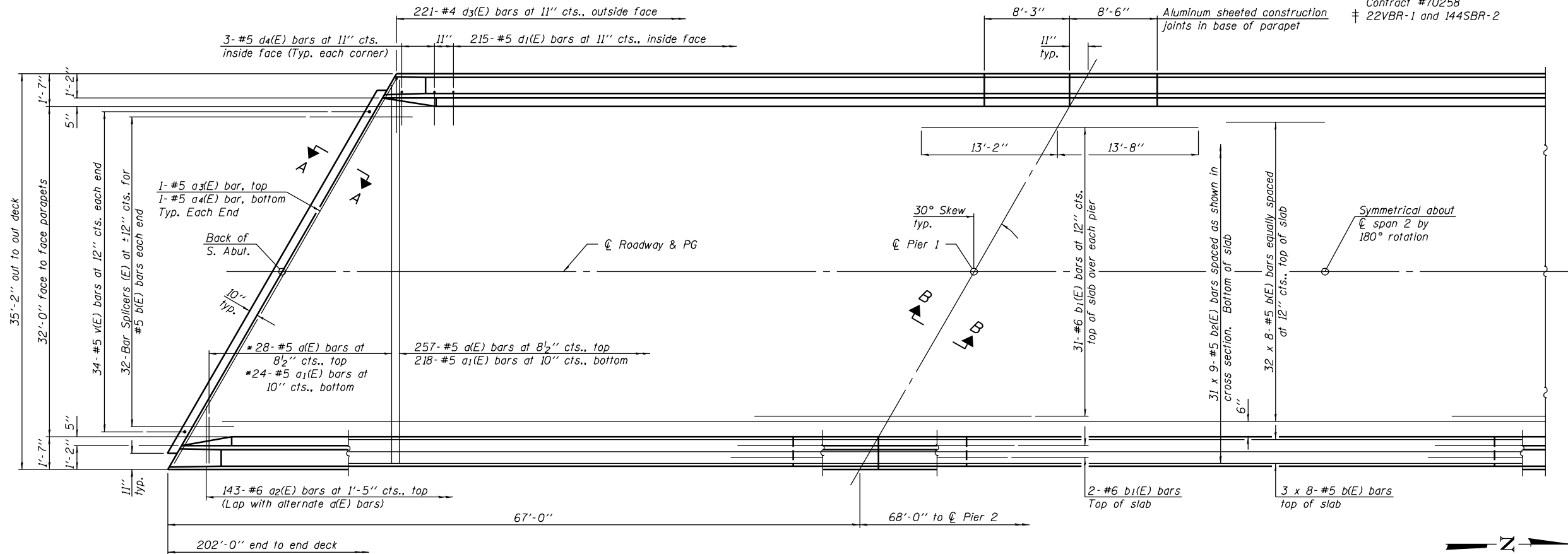
* Order a(E) and a₁(E) bars full length.
Cut to fit skew and use remainder
of bars in opposite end.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.S. 1671	SECTION ‡	COUNTY DOUGLAS	TOTAL SHEETS 181	SHEET NO. 94
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

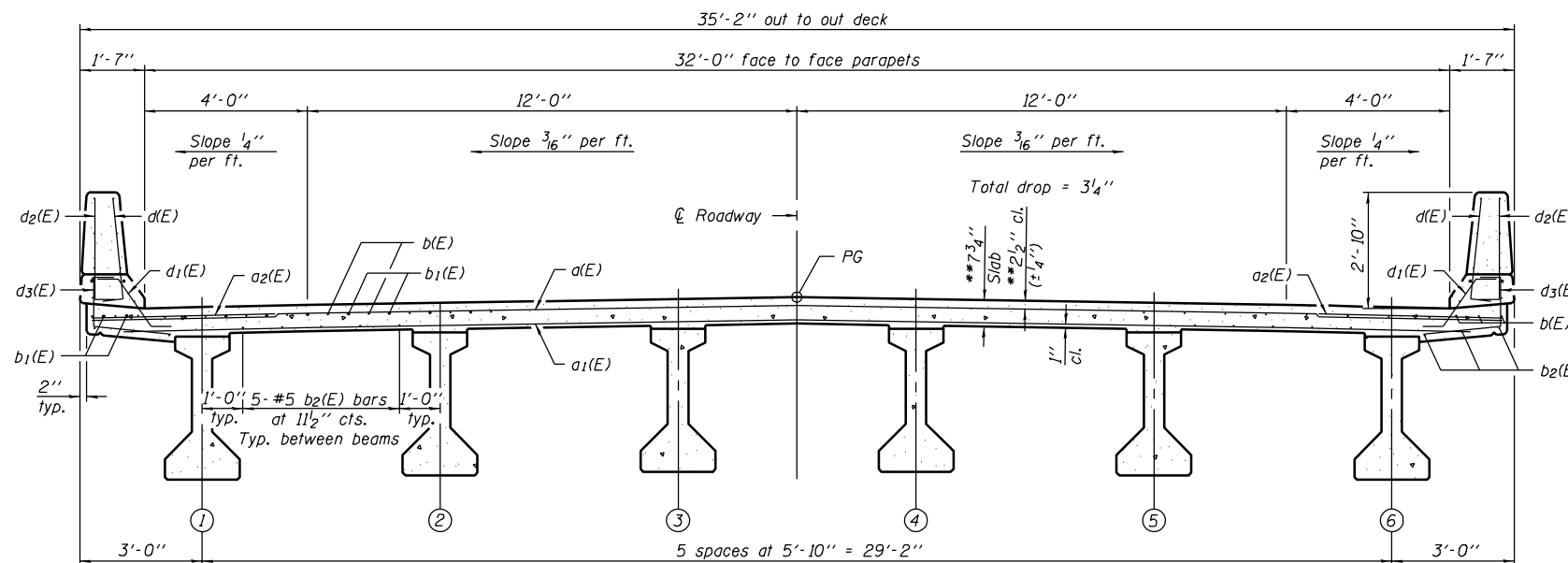
SHEET NO. 10
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2



PLAN

Notes:
See sheet 11 of 46 for superstructure details and Bill of Material.
For diaphragm details, see sheets 12 and 13 of 46.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 31 x 9-#5 etc. indicates 31 lines of bars with 9 lengths per line.
See sheet 11 of 46 for parapet reinforcement.
For bar splicer details, see sheet 24 of 46.
For Sections A-A and B-B, see sheet 13 of 46.
See sheet 11 of 46 for details of v(E) bars.



CROSS SECTION
(Looking North)

** Prior to grinding

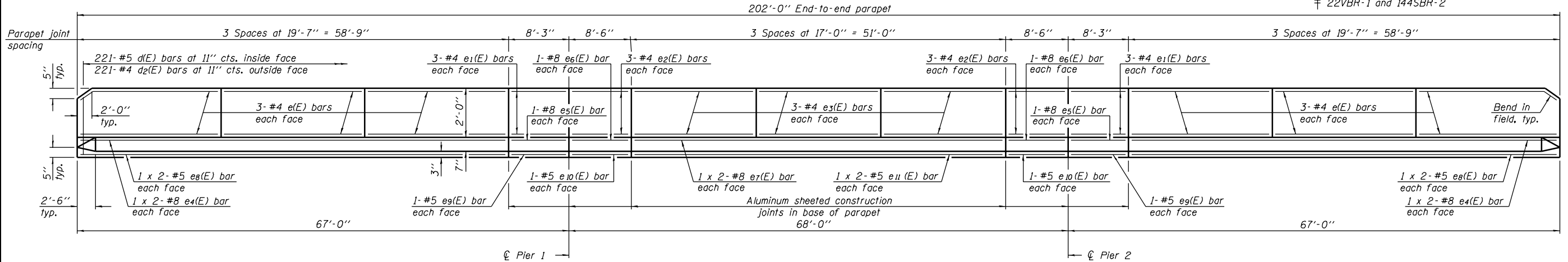
MINIMUM BAR LAP
(Slab)
#5 bar = 2'-2"

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

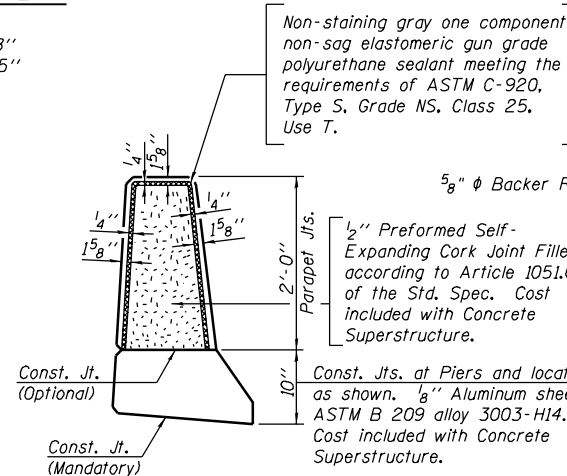
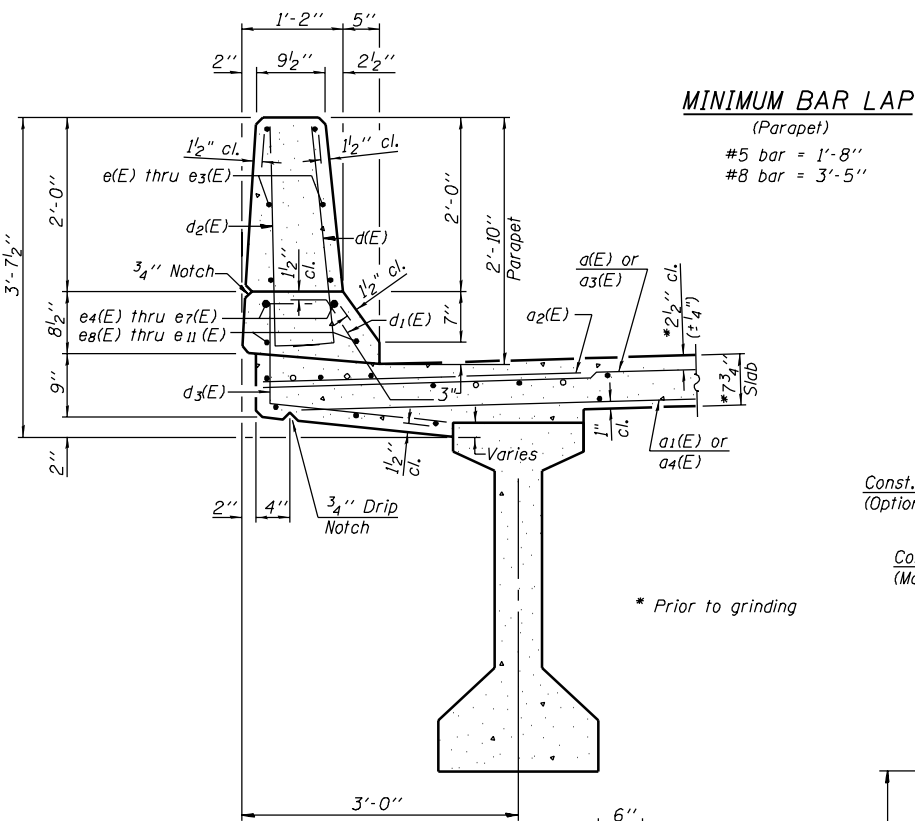
August 4, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

Contract #70258
‡ 22VBR-1 and 144SBR-2



INSIDE ELEVATION OF PARAPET
(West parapet shown, East parapet similar)



PARAPET JOINT DETAILS

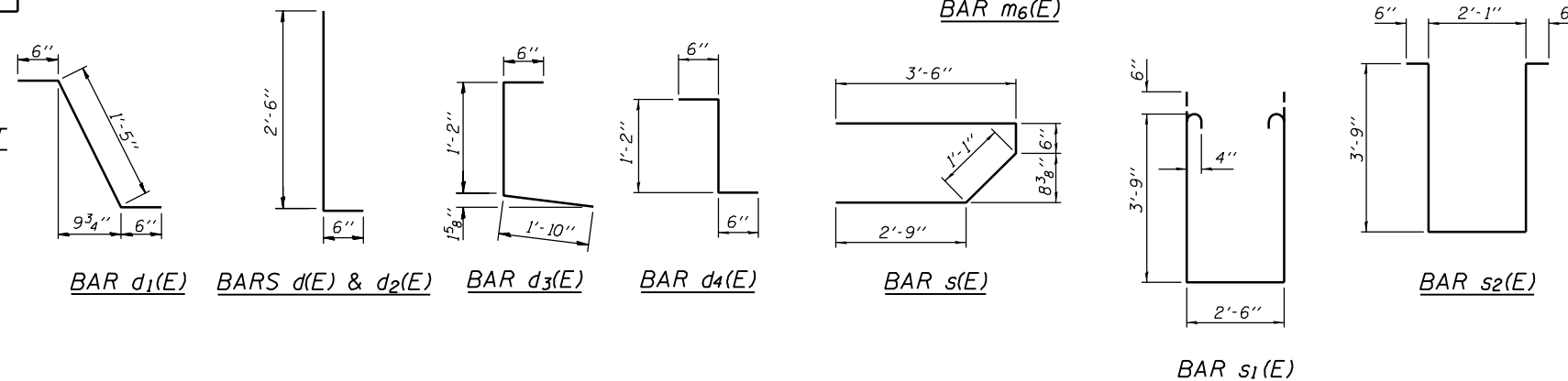
**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	285	#5	34'-7"	—
a1(E)	242	#5	32'-10"	—
a2(E)	286	#6	4'-6"	—
a3(E)	2	#5	39'-10"	—
a4(E)	2	#5	37'-10"	—
b(E)	304	#5	27'-2"	—
b1(E)	70	#6	26'-10"	—
b2(E)	279	#5	24'-4"	—
d(E)	442	#5	3'-0"	—
d1(E)	430	#5	2'-5"	—
d2(E)	442	#4	3'-0"	—
d3(E)	442	#4	3'-6"	—
d4(E)	12	#5	2'-2"	—
e(E)	72	#4	19'-3"	—
e1(E)	24	#4	7'-11"	—
e2(E)	24	#4	8'-2"	—
e3(E)	36	#4	16'-8"	—
e4(E)	16	#8	30'-11"	—
e5(E)	8	#8	7'-11"	—
e6(E)	8	#8	8'-2"	—
e7(E)	8	#8	27'-1"	—
e8(E)	16	#5	30'-1"	—
m(E)	4	#6	38'-2"	—
m1(E)	6	#6	40'-3"	—
m2(E)	24	#6	9'-6"	—
m3(E)	30	#6	4'-3"	—
m4(E)	4	#6	2'-0"	—
m5(E)	40	#4	5'-9"	—
m6(E)	12	#8	5'-10"	—
s(E)	72	#5	7'-10"	—
s1(E)	62	#4	11'-0"	—
s2(E)	50	#4	10'-7"	—
v(E)	68	#5	3'-4"	—
Reinforcement Bars, Epoxy Coated			Pound	51390
Concrete Superstructure			Cu. Yds.	262.9

Bar	No.	Size	Length	Shape
ea(E)	8	#5	7'-11"	—
ea1(E)	8	#5	8'-2"	—
ea2(E)	8	#5	26'-2"	—
ea3(E)	2	#5	39'-10"	—
ea4(E)	2	#5	37'-10"	—
eb(E)	304	#5	27'-2"	—
eb1(E)	70	#6	26'-10"	—
eb2(E)	279	#5	24'-4"	—
ed(E)	442	#5	3'-0"	—
ed1(E)	430	#5	2'-5"	—
ed2(E)	442	#4	3'-0"	—
ed3(E)	442	#4	3'-6"	—
ed4(E)	12	#5	2'-2"	—
ee(E)	72	#4	19'-3"	—
ee1(E)	24	#4	7'-11"	—
ee2(E)	24	#4	8'-2"	—
ee3(E)	36	#4	16'-8"	—
ee4(E)	16	#8	30'-11"	—
ee5(E)	8	#8	7'-11"	—
ee6(E)	8	#8	8'-2"	—
ee7(E)	8	#8	27'-1"	—
ee8(E)	16	#5	30'-1"	—
Reinforcement Bars, Epoxy Coated			Pound	51390
Concrete Superstructure			Cu. Yds.	262.9

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

SECTION THRU PARAPET



DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

August 4, 2006
EXAMINED *Thomas J. Domagalak*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE DETAILS
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1671	‡	DOUGLAS	181	96
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 12
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 11 of 46.

Concrete in diaphragm is included with Concrete Superstructure on sheet 11 of 46.

For details of bars s(E), s₁(E) and s₂(E) see sheet 11 of 46.

The s(E), s₁(E) and s₂(E) bars shall be placed parallel to the beams.

Spacing for these bars shall be at right angles to the beams.

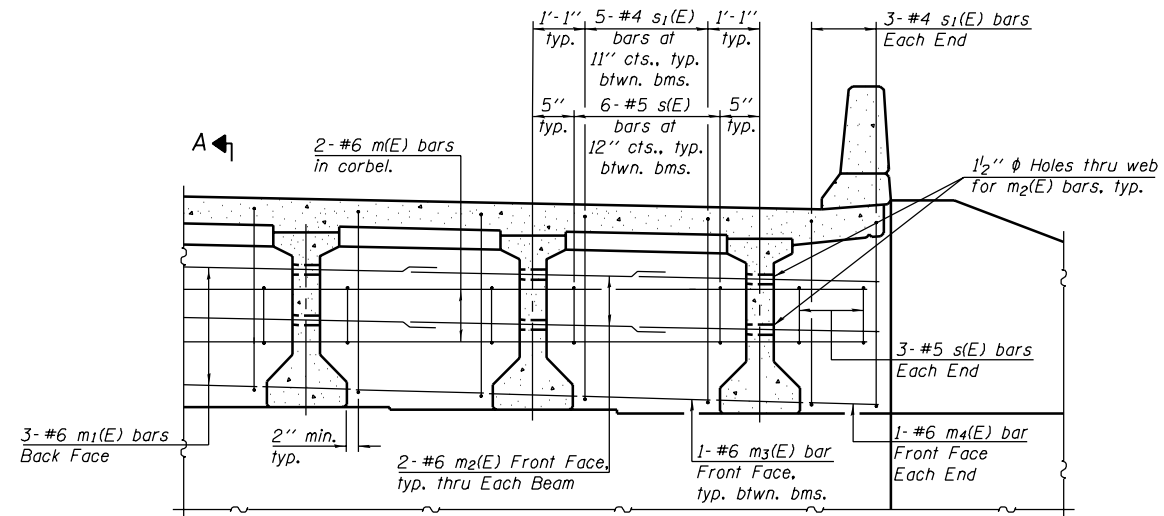
See sheet 13 of 46 for Sections A-A and B-B.

Cost of 90 Lb. roofing felt, PJF and fabric bearing pads is included with Concrete Superstructure.

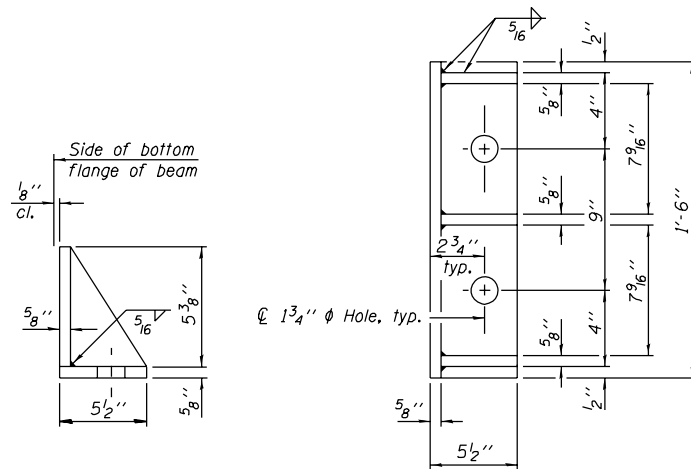
The side retainer shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Cost of side retainer and anchor bolts shall be included with Concrete Structures.

See sheet 18 of 46 for anchor bolt details.

See sheet 15 of 46 for holes thru web for m₂(E) bars.

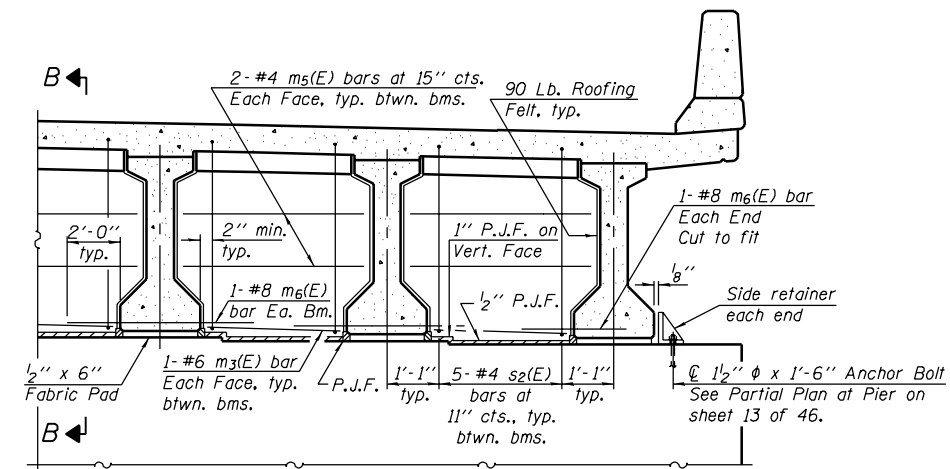


DIAPHRAGM ELEVATION AT ABUTMENT



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



DIAPHRAGM AT PIER

MIN. BAR LAP
#6 bar = 2'-9"

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

EXAMINED	August 4, 2006
PASSED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

PI-2DI

10-22-04

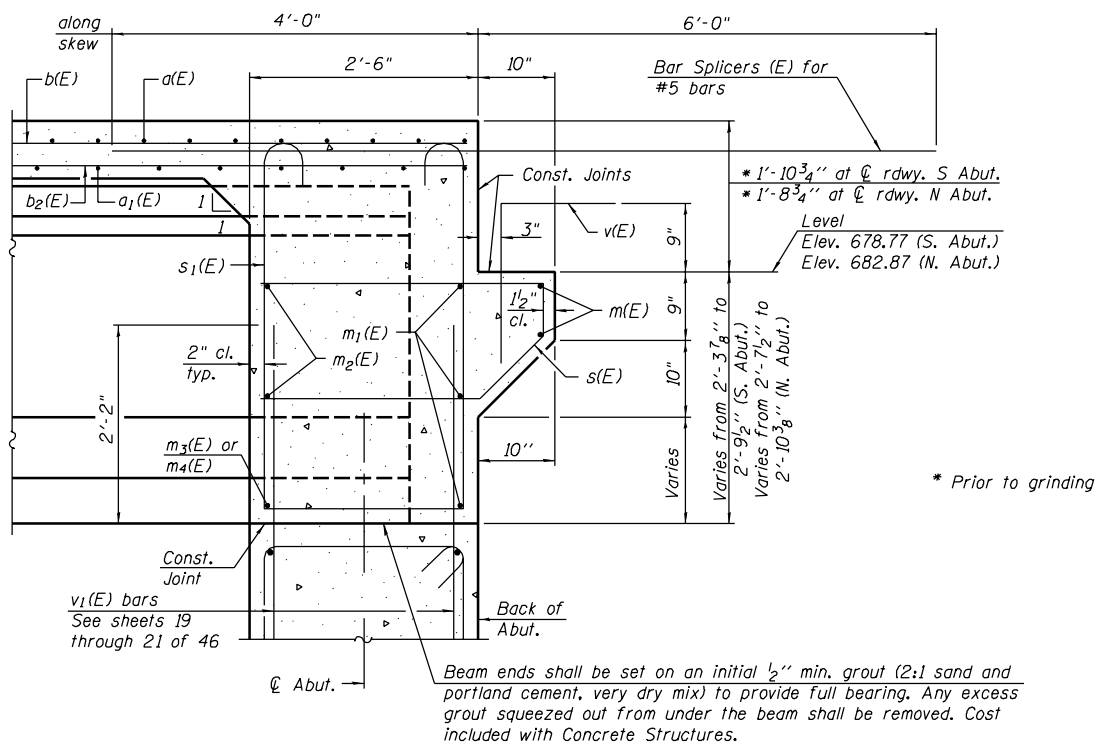
DIAPHRAGM DETAILS
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1671	‡	DOUGLAS	181	97
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 13
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2

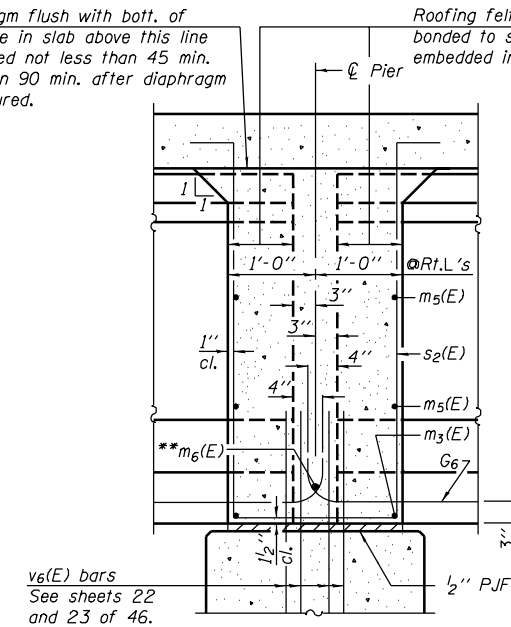


SECTION A-A

Dimensions at right angles to abutment, except as shown.

Pour diaphragm flush with bott. of slab. Concrete in slab above this line shall be placed not less than 45 min. nor more than 90 min. after diaphragm has been poured.

Roofing felt shall be bonded to side of beam embedded into diaphragm.

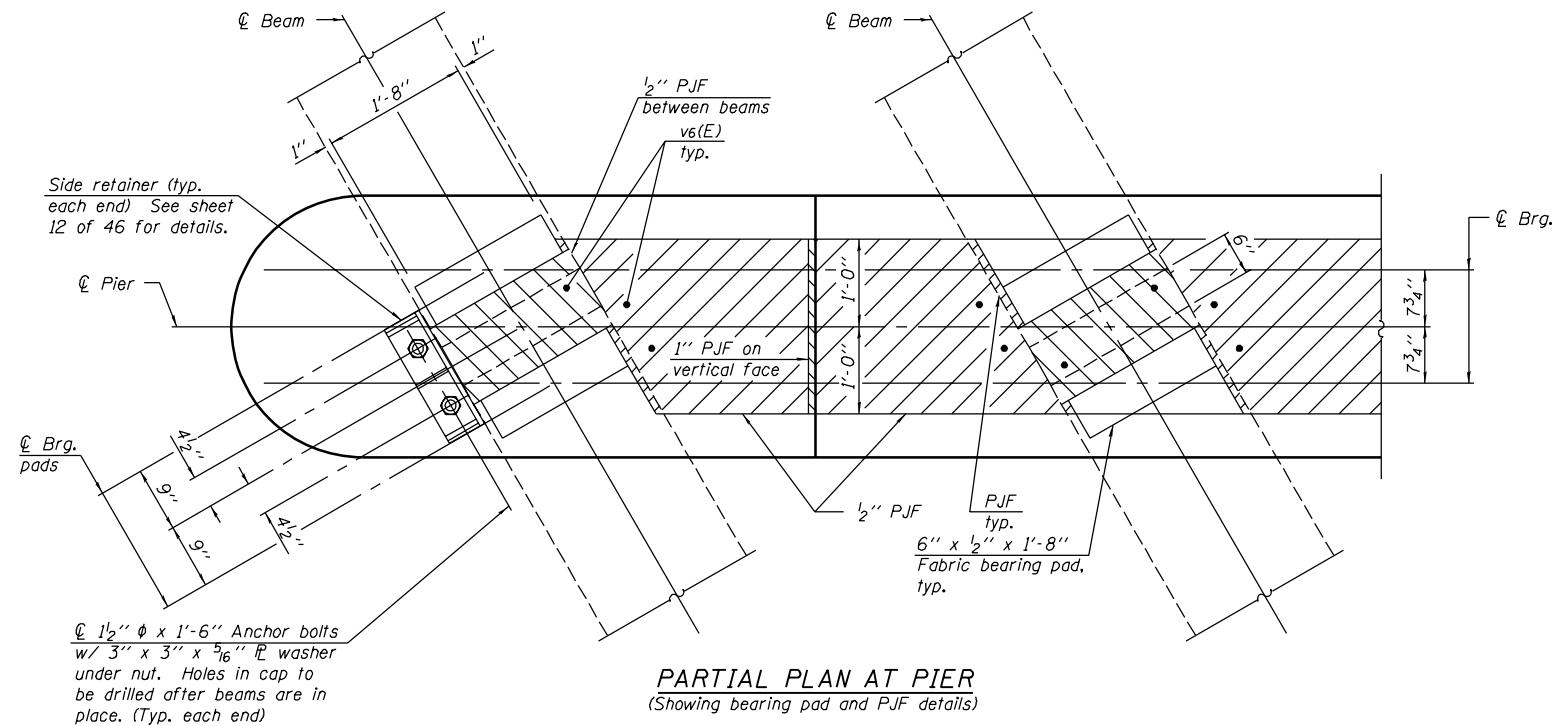


SECTION B-B

Dimensions along \bar{C} of beam, except as shown.

** Tightly fasten the #8 bars together with No. 9 wire ties.

Note:
See sheet 12 of 46 for location of Sections A-A and B-B.
For v₆(E) bars, see sheets 22 and 23 of 46.



PARTIAL PLAN AT PIER
(Showing bearing pad and P.J.F. details)

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

August 4, 2006

EXAMINED *Thomas J. Domagala*
ENGINEER OF BRIDGE DESIGN

PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

PI-2DDI

11-30-05

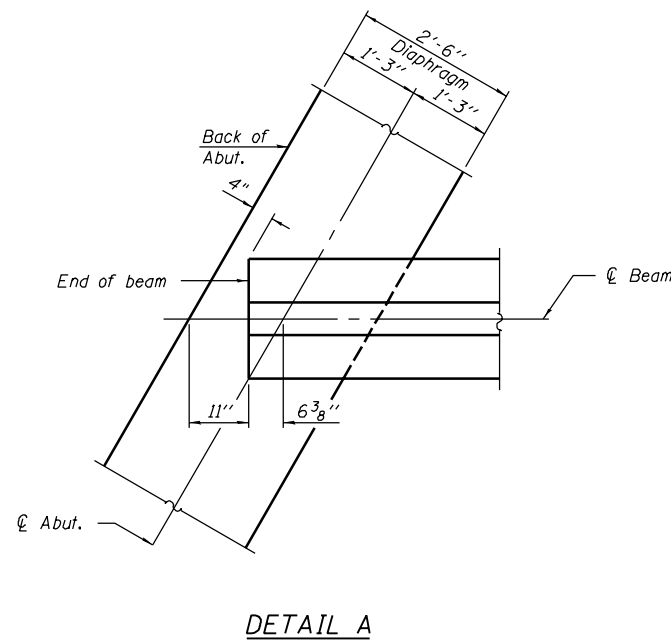
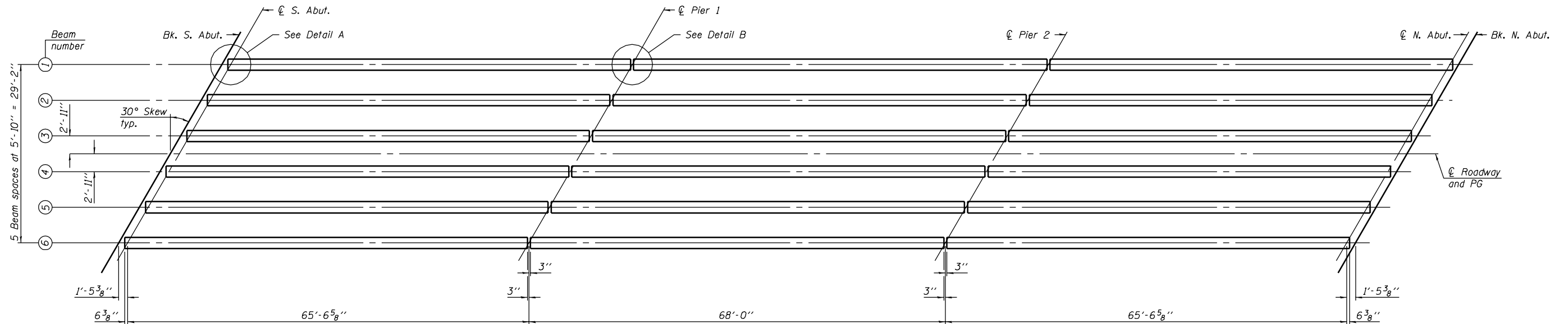
DIAPHRAGM DETAILS
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

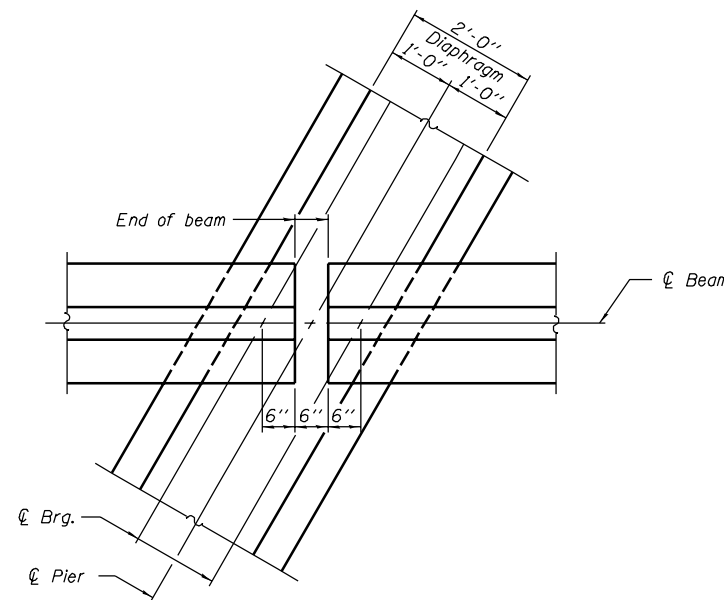
ROUTE NO. F.A.S. 1671	SECTION ‡	COUNTY DOUGLAS	TOTAL SHEETS 181	SHEET NO. 98
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 14
46 SHEETS

Contract #70258
‡ 22VBR-1 and 144SBR-2



DETAIL A



DETAIL B

		0.4 Span 1 0.6 Span 3	Pier 1 or 2	0.5 Sp. 2
I	(in ⁴)	90955.6		90955.6
I'	(in ⁴)	262303		262303
S_b	(in ³)	5152.7		5152.7
S_b'	(in ³)	8557		8557
S_t	(in ³)	3735.6		3735.6
S_t'	(in ³)	23079		23079
\bar{Q}	(k/')	1.062		1.062
$M \bar{Q}$	(k)	557		587
$s \bar{Q}$	(k/')	0.442	0.442	0.442
$M s \bar{Q}$	(k)	149	197	59
$M \bar{L}$	(k)	382	291	321
$M (Imp)$	(k)	99	76	84

		Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
$R \bar{Q}$	(k)	34.8	34.8	36.1
$R s \bar{Q}$	(k)	11.5	16.3	16.3
$R \bar{L}$	(k)	31.4	20.5	20.4
$Imp.$	(k)	8.2	5.3	5.3
$R (Total)$	(k)	85.9	76.9	78.1

I and I' are the moment of inertia and composite moment of inertia of the beam section.
 S_b and S_b' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.
 S_t and S_t' are the non-composite and composite section modulus for the top fiber of the prestressed beam.
 $M \bar{Q}$ is the moment due to dead loads on the non-composite prestressed beam. It is conservatively calculated at 0.5 of the span.
 $M s \bar{Q}$ is the moment due to dead loads on the composite section.
 $M \bar{L}$ is the moment due to live load on the composite section.
 $M (Imp)$ is the moment due to live load impact on the composite section.

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

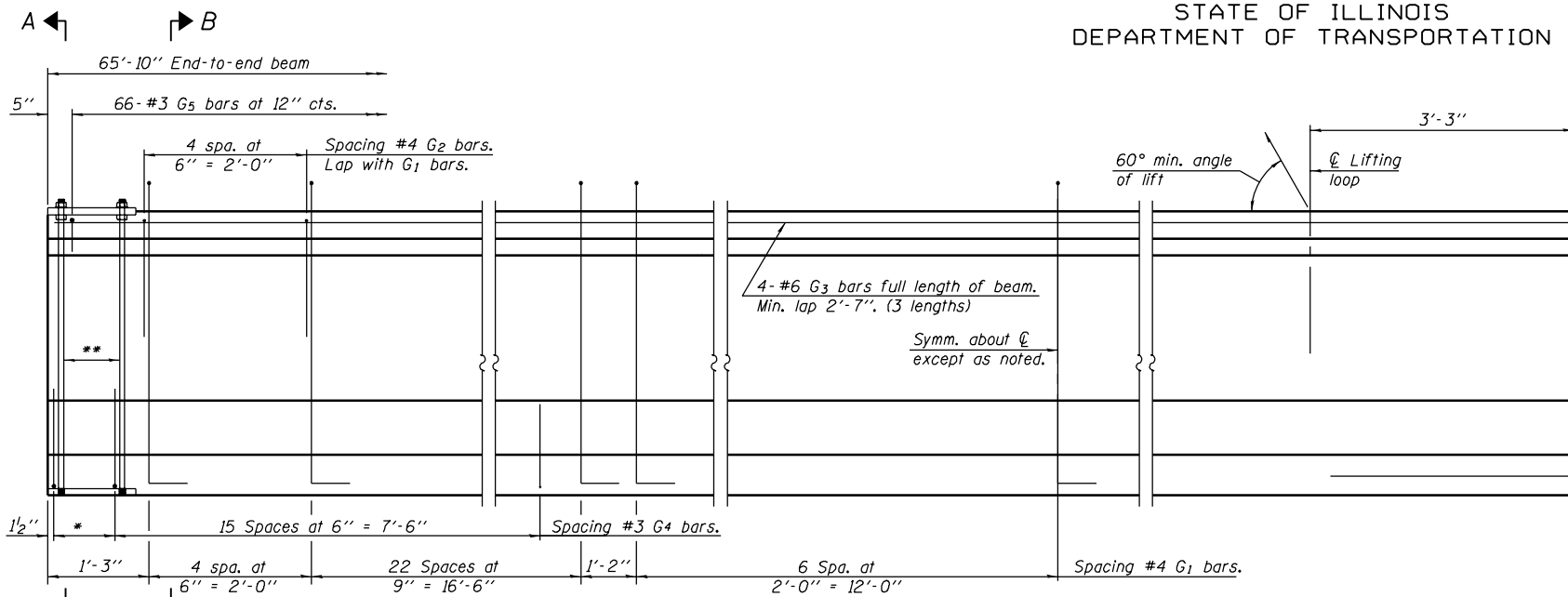
August 4, 2006
 EXAMINED *Thomas J. Domagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

FRAMING PLAN
 F.A.S. RT. 1671 - SEC. 22VBR-1
 DOUGLAS COUNTY
 STATION 1151+65.86
 STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.S. 1671	SECTION ‡	COUNTY DOUGLAS	TOTAL SHEETS 181	SHEET NO. 99	SHEET NO. 15 46 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

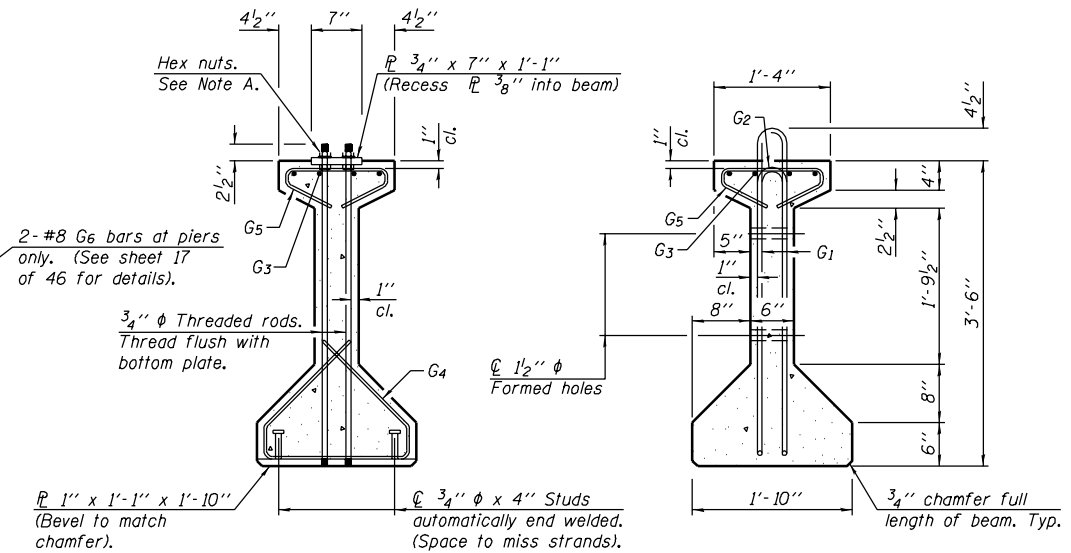
Contract #70258
‡ 22VBR-1 and 144SBR-2



ELEVATION OF BEAM
(Showing reinforcement & dimensions)

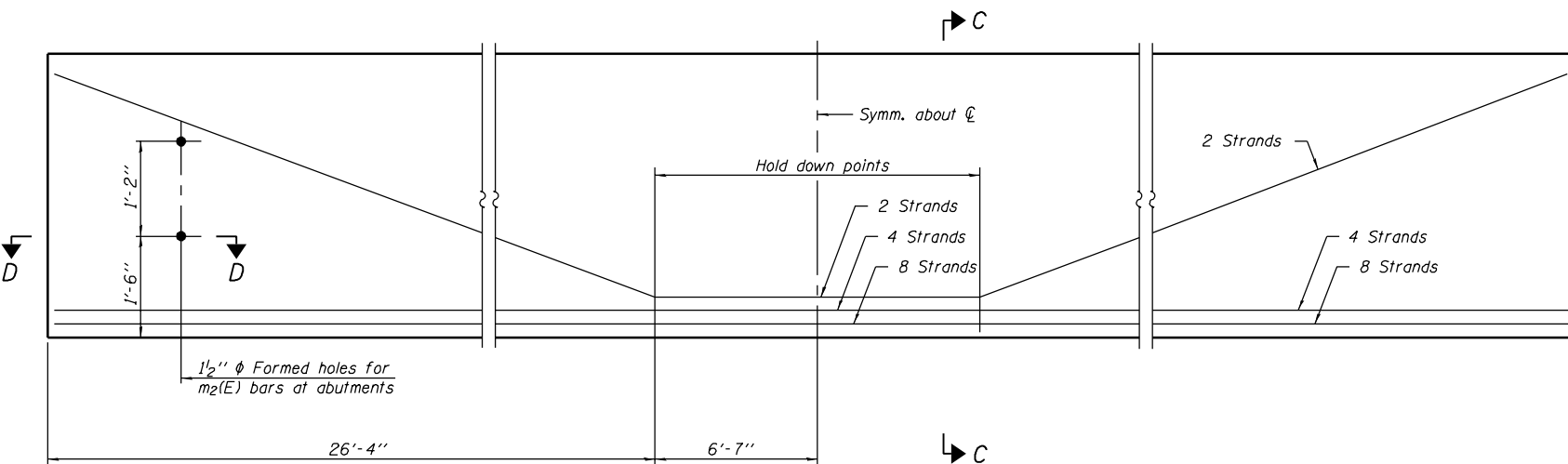
* 3 spaces at 3" = 9".
** 4- $\frac{3}{4}$ " ϕ threaded dowel rods at 3" cts., each face.

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.

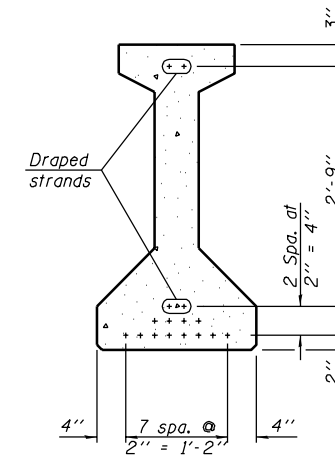


SECTION A-A

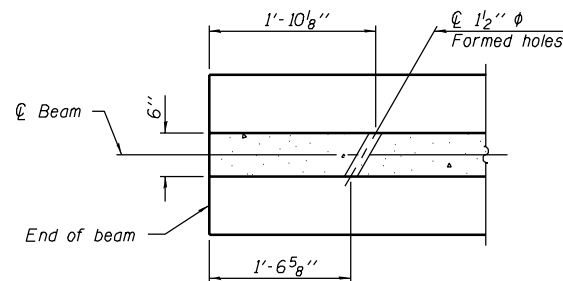
SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C



SECTION D-D

BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G ₁	67	#4	8'-5"	∩ L
G ₂	10	#4	4'-4"	∩
G ₃	12	#6	23'-7"	—
G ₄	38	#3	4'-11"	∩
G ₅	66	#3	2'-6"	∩
G ₆	2	#8	3'-9"	∩

Notes:
See sheet 17 of 46 for additional details and Bill of Material.
Required release strength, f'_{ci} , shall be 5000 psi.

DESIGNED	Curt M. Evoy
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	C.M.E. / R.L.T.

August 4, 2006

EXAMINED *Thomas J. Domagala*
ENGINEER OF BRIDGE DESIGN

PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

PI-4-42

7-15-05

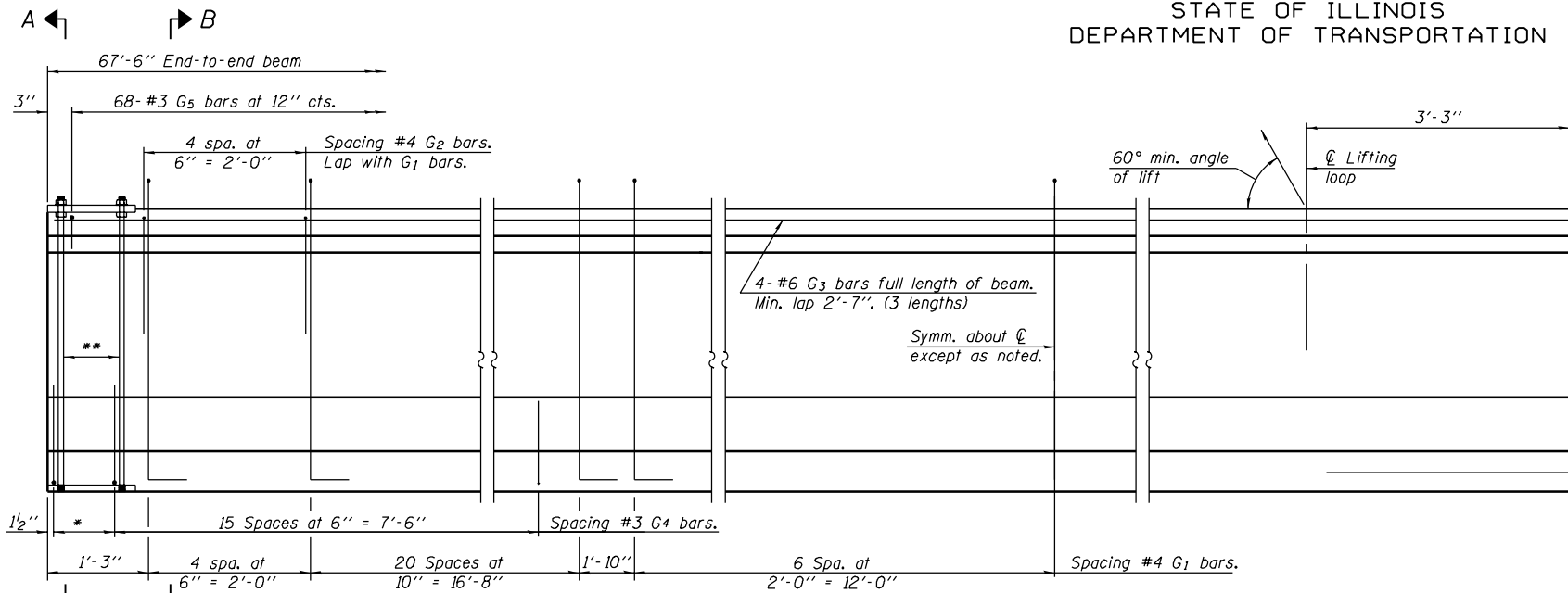
42" PPC I-BEAM (SPANS 1 & 3)
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1671	‡	DOUGLAS	181	100
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 16
46 SHEETS

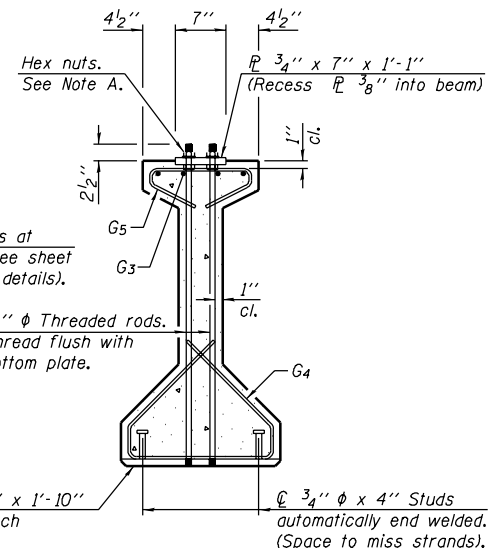
Contract #70258
‡ 22VBR-1 and 144SBR-2



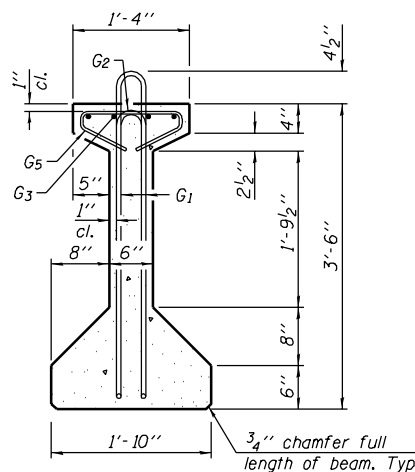
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

* 3 spaces at 3" = 9".
** 4- $\frac{3}{4}$ " ϕ threaded dowel rods at 3" cts., each face.

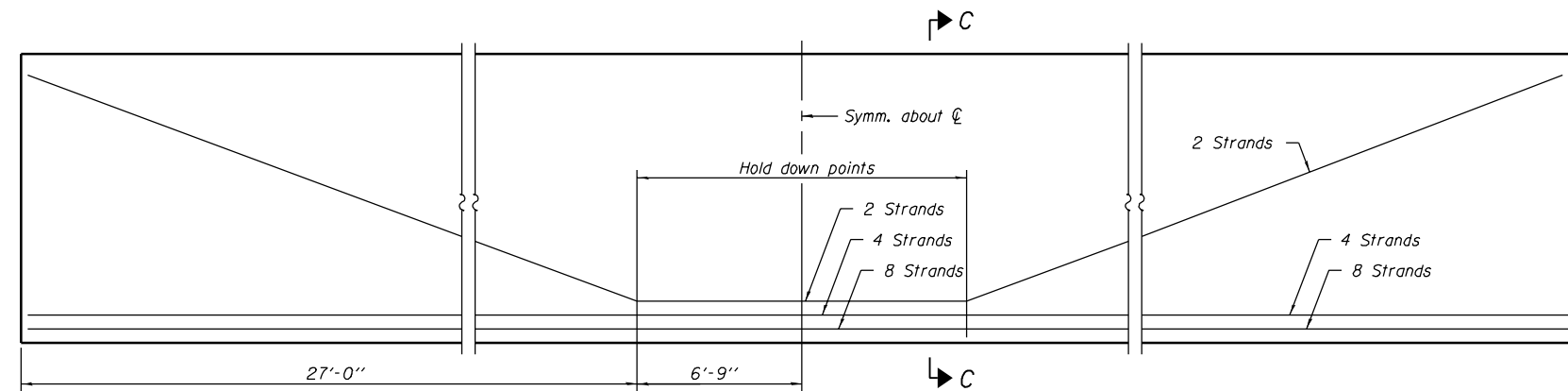
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



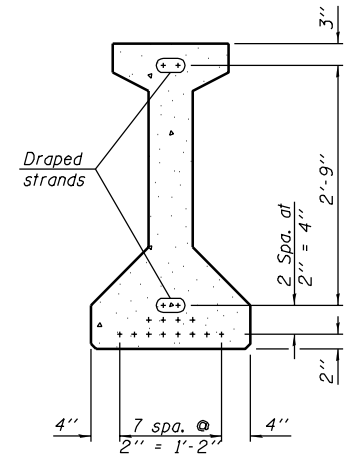
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G ₁	63	#4	8'-5"	∩L
G ₂	10	#4	4'-4"	∩
G ₃	12	#6	24'-2"	—
G ₄	38	#3	4'-11"	∩
G ₅	68	#3	2'-6"	∩
G ₆	4	#8	3'-9"	∩

Notes:
See sheet 17 of 46 for additional details and Bill of Material.
Required release strength, $f'ci$, shall be 5000 psi.

DESIGNED	Curt M. Evoy	August 4, 2006
CHECKED	Rebecca L. Tharp	EXAMINED <i>Thomas J. Domagalak</i> ENGINEER OF BRIDGE DESIGN
DRAWN	Michael B. Mossman	PASSED <i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	C.M.E. / R.L.T.	

PI-4-42 7-15-05

42" PPC I-BEAM (SPAN 2)
F.A.S. RT. 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86
STRUCTURE NO. 021-0061