

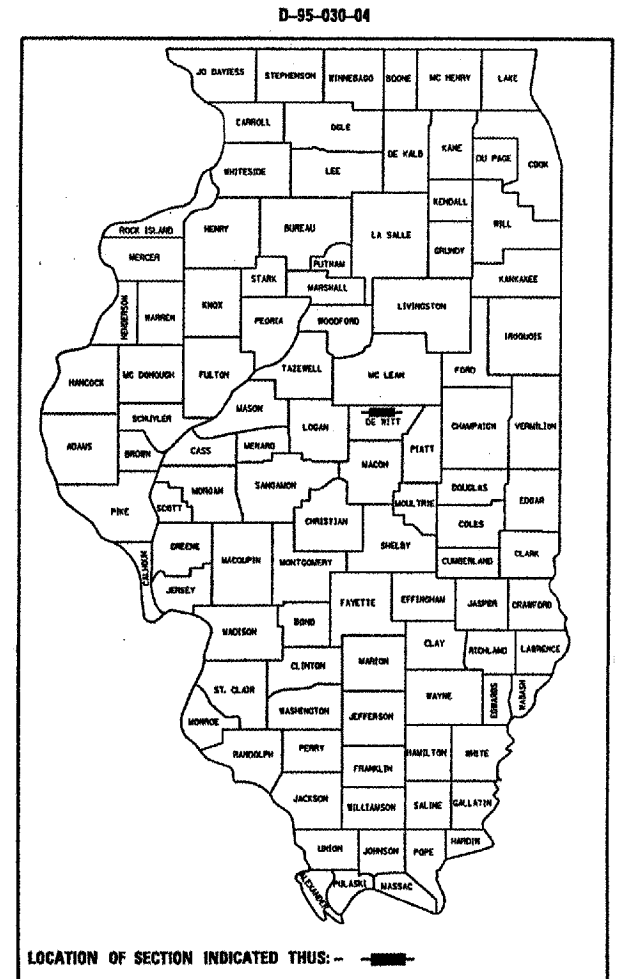
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 717 (IL 10)
SECTION (111B)BR
PROJECT ACBRF-0717(028)
DEWITT COUNTY

C-95-031-04
BRIDGE REPLACEMENT

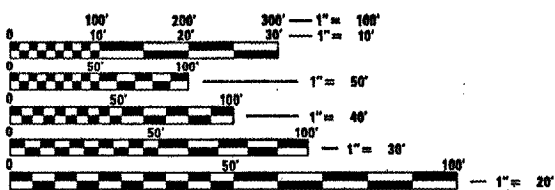


FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4 & 5

DESIGNER: MATTHEW W. MURPHY SQUAD LEADER: ROBERT M. NELSON PROJECT ENGINEER: KENSIL GARNETT (217)465-4181

CURRENT ADT
F.A.P. 717 2,450 2004
P.U. & P.C. 85.2% S.U. 7.4% M.U. 7.4%

DESIGN DESIGNATION
FUNCTIONAL CLASSIFICATION
RURAL MINOR ARTERIAL



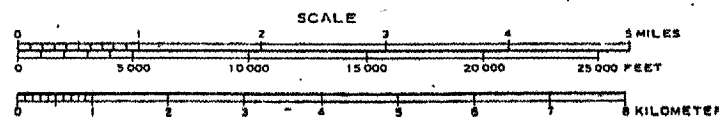
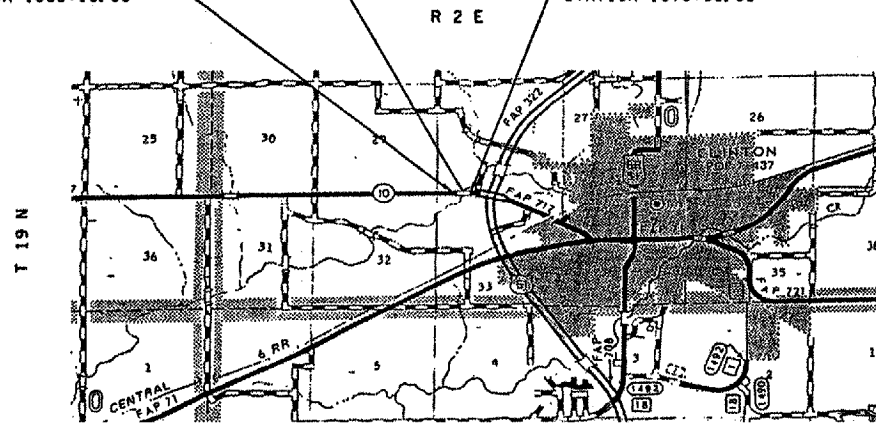
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 CLINTONIA TOWNSHIP

STRUCTURE NO. 020-0007 (EXISTING)
STRUCTURE NO. 020-0063 (PROPOSED)

PROJECT BEGINS
STATION 1068+18.00

PROJECT ENDS
STATION 1070+90.00



TOTAL LENGTH OF SECTION & PROJECT = 272.0 FEET = 0.052 MILES
NET LENGTH OF SECTION & PROJECT = 272.0 FEET = 0.052 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Aug 29, 06*
Michael R. P. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 13, 06
William R. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

October 13, 06
William R. [Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

PLOT DATE = 8/23/2006
FILE NAME = c:\p\objects\0503004\081\70387\text.dgn
PLOT SCALE = 43.2355 / / IN.
USER NAME = pierforb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS
3	GENERAL NOTES
4 - 5	SUMMARY OF QUANTITIES
6	EXISTING TYPICAL CROSS SECTIONS - ROADWAY
7	PROPOSED TYPICAL CROSS SECTIONS - ROADWAY
8	EXISTING / PROPOSED TYPICAL CROSS SECTIONS - BRIDGE
9 - 10	SCHEDULES
11	TIE POINTS
12 - 14	PLAN / PROFILE SHEETS
15 - 18	DETOUR SIGNING DETAIL
19	EROSION CONTROL PLAN
20	SEEDING PLAN
21 - 36	BRIDGE PLANS
37	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR ROAD CLOSURE
38 - 41	TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS
42 - 53	STATION CROSS SECTIONS

LIST OF STANDARDS

STANDARD NUMBER	NAME OF STANDARD
000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
420001-06	PAVEMENT JOINTS
420401-05	BRIDGE APPROACH PAVEMENT
421001-01	BAR REINFORCEMENT FOR CRC PAVEMENT
482011-01	BIT. SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-02	NAME PLATED FOR BRIDGES
630001-06	STEEL PLATE BEAM GUARDRAIL
630301-03	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-05	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
667101	PERMANENT SURVEY MARKERS
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-02	LANE CLOSURE, 2L, 2W MOVING OPERATIONS
702001-06	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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 USER NAME = plrsonbr

ILLINOIS DEPARTMENT OF TRANSPORTATION
**INDEX OF SHEETS &
 LIST OF STANDARDS**
 F.A.P. ROUTE 717 (IL 10)
 SECTION (111B)BR
 DEWITT COUNTY
 SCALE: NOT TO SCALE
 DATE: 07/20/06
 DRAWN BY: B.B.P.
 CHECKED BY: R.M.N.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

G. N. -100

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

G. N. -105.09A

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

G. N. -107.31

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

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

G. N. -250C

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

G. N. -281

THE RIPRAP GRADATION SHALL BE IN ACCORDANCE WITH THE GRADATION SPECIFIED IN THE PLANS OR, WITH APPROVAL OF THE ENGINEER, A RIPRAP GRADATION MEETING A D50 GREATER THAN OR EQUAL TO 0.5 TO 0.8 FEET. D50 IS DEFINED AS THE MEAN ROCK SIZE AS DESCRIBED IN THE FHWA HYDRAULIC ENGINEERING CIRCULARS (HEC 11, HEC 14 AND HEC 15).

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

G. N. -406

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

G. N. -482

ALL MATERIAL PLACED AS BITUMINOUS SHOULDERS SUPER PAVE SHALL BE COMPACTED TO 4.0-8.4 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 9.5 L MIXES USING STANDARD CORRELATION PROCEDURES.

G. N. -406H

MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location	IL 10	IL 10
Mixture Use	Surface & Top 1 1/2" Bit. Shldr.	Flex Connector & Bottom 6 1/2" Bit. Shldr.
AC / PG	PG 64-22	PG 64-22
RAP % (Max)	15	25
Design Air Voids	4.0% @ Ndes = 504.0% @ Ndes = 50	
Mix Comp (Gradation)	IL 9.5	IL 19.0
Friction Aggregate	Mix C	N. A.

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 (PC'S, PT'S, AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.

G. N. -703A

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

G. N. -781

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

G. N. -1004.01

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

G. N. -1004.03

REVISE ARTICLE 1004.03 (c) NOTE 5/ OF THE STANDARD SPECIFICATIONS TO READ: '5/ GRADATION CA-16 SHALL BE USED IN LIEU OF CA-13 WHEN THE SURFACE COURSE IS LESS THAN 1 3/4 INCHES IN THICKNESS. CA-13 OR CA-16 MAY BE USED WHEN THE SURFACE COURSE IS 1 3/4 INCHES OR MORE IN THICKNESS.'

G. N. -Z0038

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

COMMITMENTS:

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.A.P. ROUTE 717 (IL 10)
SECTION (111B)BR
DEWITT COUNTY

SCALE: NOT TO SCALE
DATE: 07/21/06

DRAWN BY: B.B.P.
CHECKED BY: R.M.N.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	011B1BR	DEWITT	53	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SHEET 1 OF 2

LOCATION OF WORK:

DEWITT COUNTY
RURAL
ROADWAY / STRUCTURE
IMPROVEMENTS
FAP 717 (IL 10)
STA. 1068+18.00
STA. 1070+90.00
80% FEDERAL
20% STATE
X071-2A

CONSTRUCTION TYPE CODE:

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY
20200100	EARTH EXCAVATION	CU YD	1455.0	1455.0
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	140.0	140.0
25000300	SEEDING, CLASS 3	ACRE	0.6	0.6
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	50.0	50.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	50.0	50.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	50.0	50.0
25100115	MULCH, METHOD 2	ACRE	0.6	0.6
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	60.0	60.0
28000400	PERIMETER EROSION BARRIER	FOOT	546.0	546.0
28100107	STONE RIPRAP, CLASS A4	SQ YD	855.0	855.0
28200200	FILTER FABRIC	SQ YD	855.0	855.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	14.0	14.0
40600300	AGGREGATE (PRIME COAT)	TON	1.0	1.0
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	219.0	219.0
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	50.0	50.0
44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ YD	136.0	136.0
44000100	PAVEMENT REMOVAL	SQ YD	461.0	461.0
44004250	PAVED SHOULDER REMOVAL	SQ YD	14.0	14.0
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	14.0	14.0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0	1.0
50200100	STRUCTURE EXCAVATION	CU YD	382.0	382.0
50300100	FLOOR DRAINS	EACH	20.0	20.0
50300225	CONCRETE STRUCTURES	CU YD	70.5	70.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	190.8	190.8
50300260	BRIDGE DECK GROOVING	SQ YD	633.0	633.0
50300300	PROTECTIVE COAT	SQ YD	703.0	703.0
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1.0	1.0
50500505	STUD SHEAR CONNECTORS	EACH	3084.0	3084.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	53,040.0	53,040.0
51201600	FURNISHING STEEL PILES HP12X53	FOOT	715.0	715.0
51201700	FURNISHING STEEL PILES HP12X74	FOOT	552.0	552.0

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. ROUTE 717 (IL 10)
SECTION 011B1BR
DEWITT COUNTY
Sheet 1 of 2

SCALE: NOT TO SCALE
DATE: 08/04/06

DRAWN BY: B.B.P.
CHECKED BY: R.M.N.

F.A.P. RY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

SHEET 2 OF 2

LOCATION OF WORK:

DEWITT COUNTY
RURAL
ROADWAY / STRUCTURE
IMPROVEMENTS
FAP 717 (IL 10)
STA. 1068+18.00
STA. 1070+90.00
80% FEDERAL
20% STATE
X071-2A

CONSTRUCTION TYPE CODE:

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY
51203600	TEST PILE STEEL HP12x53	EACH	2.0	2.0
51203700	TEST PILE STEEL HP12X74	EACH	1.0	1.0
51500100	NAME PLATES	EACH	1.0	1.0
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	76.4	76.4
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	110.0	110.0
*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4.0	4.0
*63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4.0	4.0
63200310	GUARDRAIL REMOVAL	FOOT	515.0	515.0
*63300900	VERTICAL ADJUSTMENT OF GUARD RAIL	FOOT	1086.0	1086.0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6.0	6.0
67100100	MOBILIZATION	L SUM	1.0	1.0
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1.0	1.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	25.0	25.0
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	828.0	828.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	9.0	9.0
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	828.0	828.0
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2.0	2.0
*78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2.0	2.0
*78200405	GUARDRAIL MARKERS	EACH	23.0	23.0
*78200500	BARRIER WALL MARKERS	EACH	8.0	8.0
*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0	4.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2.0	2.0
X0324865	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	722.0	722.0
X0325278	DRIVING PILES	FOOT	1,267.0	1,267.0
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	12.0	12.0
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1.0	1.0
Z0002600	BAR SPLICERS	EACH	64.0	64.0
Z0038700	PERMANENT BENCH MARKS	EACH	1.0	1.0
*SPECIALITY ITEM				

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. ROUTE 717 (IL 10)
SECTION (111B)BR
DEWITT COUNTY
Sheet 2 of 2

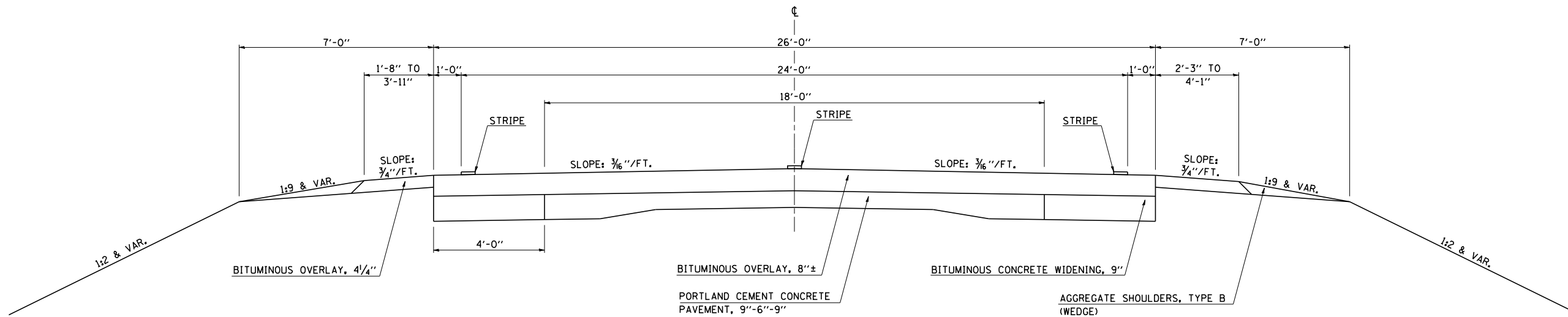
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CHECKED BY: R.M.N.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(11B)BR	DEWITT	53	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

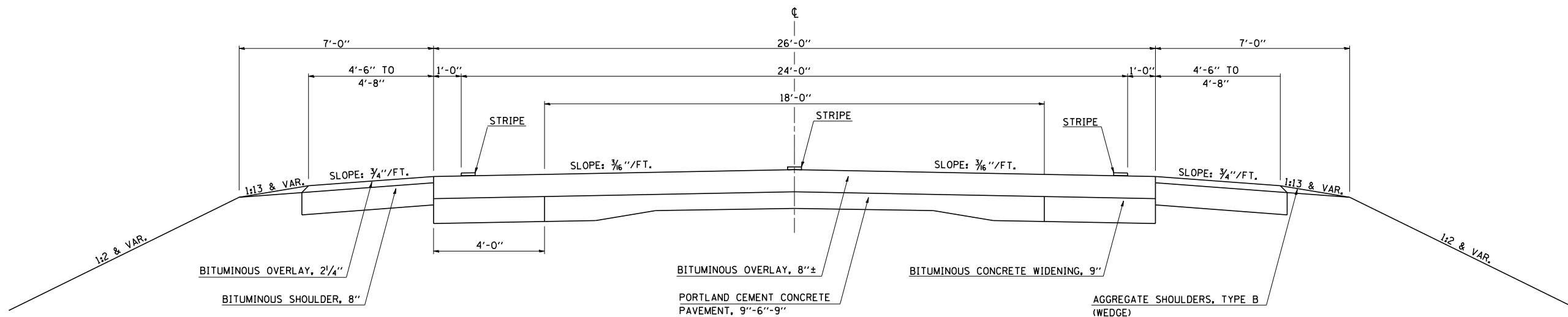
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STATION 1068+18.00 TO STATION 1068+83.20 (FLEXIBLE CONNECTOR)



EXISTING TYPICAL CROSS SECTION

(FLEXIBLE CONNECTOR) STATION 1070+21.09 TO STATION 1070+90.00



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ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING TYPICAL SECTIONS
 F.A.P. 717 (IL ROUTE 10)
 SECTION (11B)BR
 DEWITT COUNTY

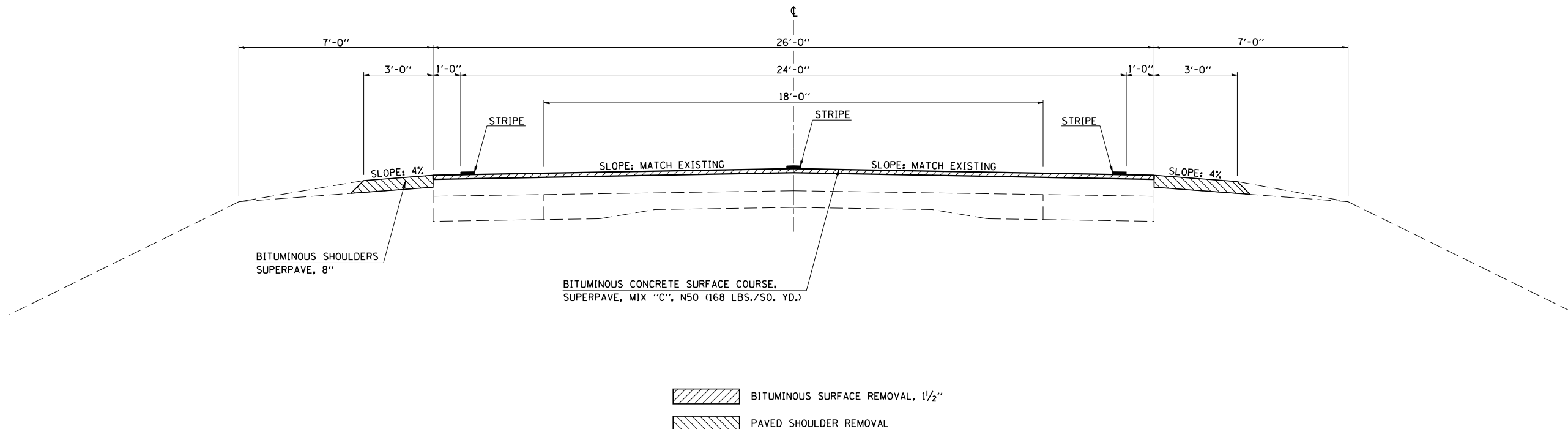
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 CHECKED BY: M.W.M.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(11B)BR	DEWITT	53	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

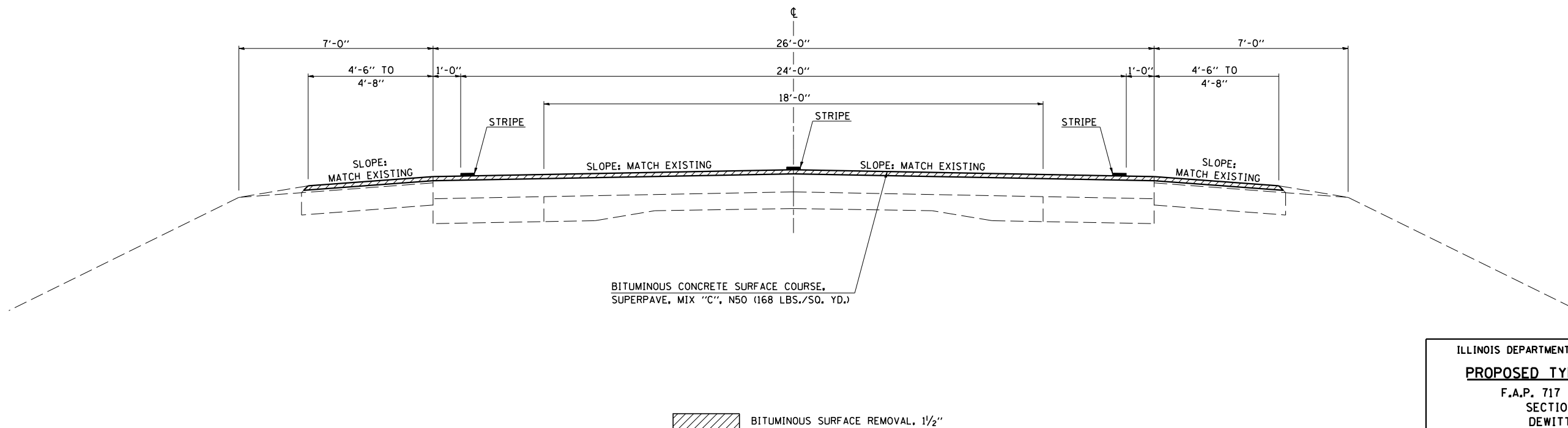
① PROPOSED TYPICAL CROSS SECTION

STATION 1068+18.00 TO STATION 1068+38.00 (FLEXIBLE CONNECTOR)



② PROPOSED TYPICAL CROSS SECTION

(FLEXIBLE CONNECTOR) STATION 1070+70.00 TO STATION 1070+90.00



ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TYPICAL SECTIONS
 F.A.P. 717 (IL ROUTE 10)
 SECTION (11B)BR
 DEWITT COUNTY

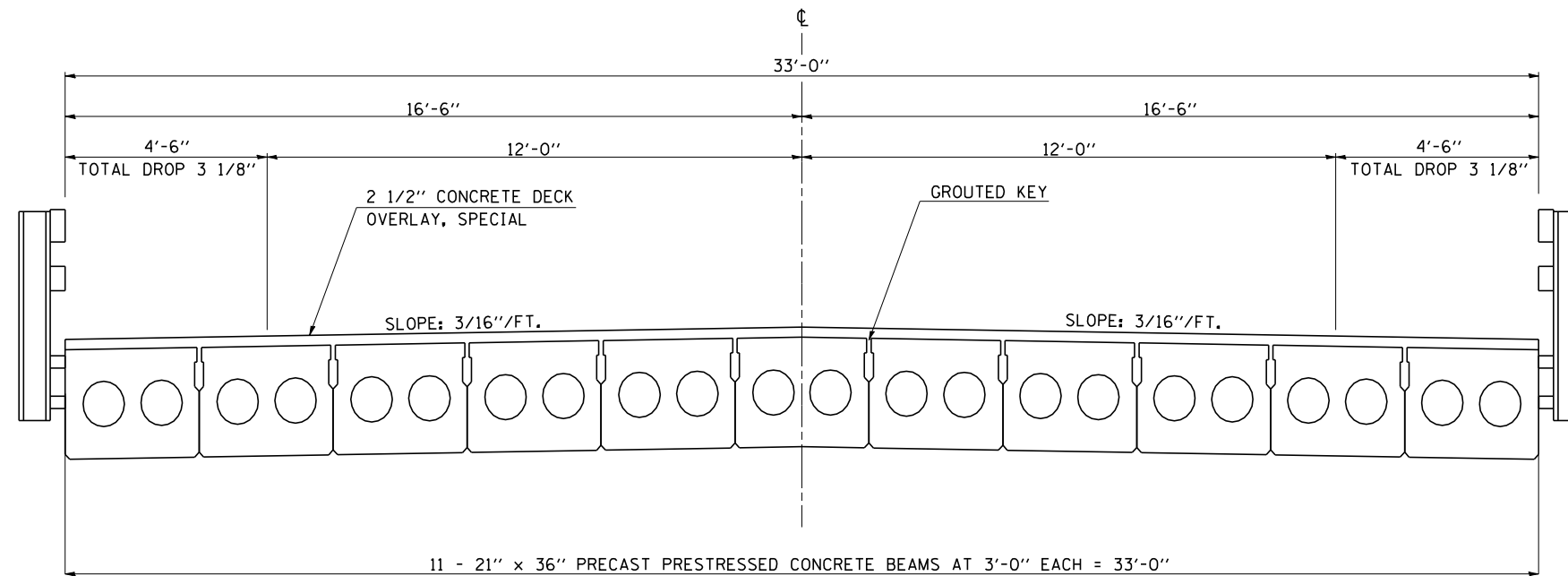
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(11B)BR	DEWITT	53	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

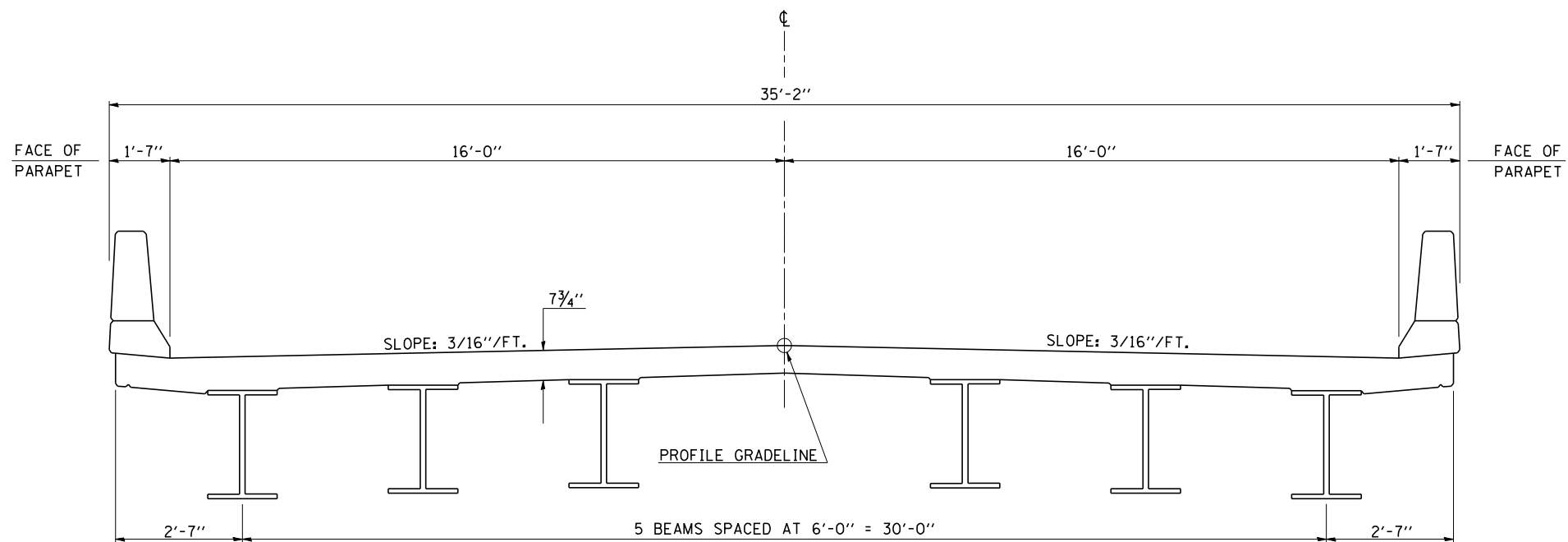
EXISTING BRIDGE TYPICAL SECTION (STRUCTURE NO. 020-0007)

STATION 1068+99.00 TO STATION 1070+05.27



PROPOSED BRIDGE TYPICAL SECTION (STRUCTURE NO. 020-0063)

STATION 1068+74.00 TO STATION 1070+34.00



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ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE TYPICAL SECTIONS
 F.A.P. 717 (IL ROUTE 10)
 SECTION (11B)BR
 DEWITT COUNTY

SCALE: NOT TO SCALE
 DATE: 04/25/06
 DRAWN BY: B.B.P.
 CHECKED BY: M.W.M.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

SHEET 1 OF 2

GUARDRAIL REMOVAL

STATION	OFFSET	TO	STATION	OFFSET	FOOT
1063+95.50	RT.		1065+45.50	RT.	150.00
1064+08.00	LT.		1065+58.00	LT.	150.00
1068+34.11	RT.		1068+70.50	RT.	36.39
1068+52.59	LT.		1068+70.50	LT.	17.91
1070+34.43	RT.		1070+55.41	RT.	20.98
1070+34.43	LT.		1070+73.89	LT.	39.46
1072+84.43	RT.		1073+34.43	RT.	50.00
1073+46.93	LT.		1073+96.93	LT.	50.00
TOTAL					514.74
USE					515.00

VERTICAL ADJUSTMENT OF GUARDRAIL

STATION	OFFSET	TO	STATION	OFFSET	FOOT
1065+45.50	RT.		1068+34.11	RT.	288.61
1065+58.00	LT.		1068+52.59	LT.	294.59
1070+55.41	RT.		1072+84.43	RT.	229.02
1070+73.89	LT.		1073+46.93	LT.	273.04
TOTAL					1085.26
USE					1086.00

GUARDRAIL MARKER

STATION	OFFSET	TO	STATION	OFFSET	EACH
1064+95.50	RT.		1068+64.76	RT.	6
1065+08.00	LT.		1068+83.24	LT.	6
1070+24.76	RT.		1073+34.43	RT.	5
1070+43.24	LT.		1073+96.93	LT.	6
TOTAL					23

BARRIER WALL MARKERS

STATION	OFFSET	TO	STATION	OFFSET	EACH
1068+64.76	RT.		1070+24.76	RT.	4
1068+83.24	LT.		1070+43.24	LT.	4
TOTAL					8

RAISED REFLECTIVE PAVEMENT MARKER

STATION	IO	STATION	EACH
1068+18.00		1068+74.00	1
1070+34.00		1070+90.00	1
TOTAL			2

RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

STATION	IO	STATION	EACH
1068+74.00		1070+34.00	2
TOTAL			2

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

STATION	IO	STATION	EACH
1068+18.00		1068+38.00	1
1070+70.00		1070+90.00	1
TOTAL			2

BRIDGE APPROACH PAVEMENT (SPECIAL)

STATION	IO	STATION	SO. YDS.
1068+44.00		1068+74.00	109.07
1070+34.00		1070.64.00	109.07
TOTAL			219.0

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

STATION	IO	STATION	SO. YDS.
1068+38.00		1068+44.00	24.64
1070+64.00		1070+70.00	24.64
TOTAL			50.0

BITUMINOUS SURFACE REMOVAL 1 1/2"

STATION	IO	STATION	SO. YDS.
1068+18.00		1068+38.00	57.78
1070+70.00		1070+90.00	78.16
TOTAL			136.0

PAVEMENT REMOVAL

STATION	IO	STATION	SO. YDS.
1068+38.00		1068+99.00	214.4
1070+05.27		1070+70.00	245.7
TOTAL			461.0

PAVED SHOULDER REMOVAL

STATION	IO	STATION	SO. YDS.
LT. 1068+18.00		LT. 1068+38.0	6.67
RT. 1068+18.00		RT. 1068+38.0	6.67
TOTAL			13.33
USE			14.00

REMOVAL OF EXISTING STRUCTURES

STATION	IO	STATION	EACH
1068+99.00		1070+05.27	1
TOTAL			1

PLOT DATE = 8/24/2006
 FILE NAME = c:\projects\0503004\08\70387\text.dgn
 USER NAME = pier.sombir

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

F.A.P. ROUTE 717 (IL 10)
 SECTION (111B)BR
 DEWITT COUNTY
 Sheet 1 of 2

SCALE: NOT TO SCALE
 DATE: 07/21/06
 DRAWN BY: B.B.P.
 CHECKED BY: R.M.N.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

SHEET 2 OF 2

PAINT PAVEMENT MARKING - LINE 4"

ROUTE	STATION	TO	STATION	LENGTH	4" WHITE (FOOT)	4" SKIP DASH YELLOW (FOOT)	4" NO PASSING YELLOW (FOOT)
IL 10	1068+18.00		1070+90.00	272.0	544.0	68.0	216.0
TOTAL					828.0 FOOT		

TEMPORARY PAINT PAVEMENT MARKING - LINE 4"

ROUTE	STATION	TO	STATION	LENGTH	4" WHITE (FOOT)	4" SKIP DASH YELLOW (FOOT)	4" NO PASSING YELLOW (FOOT)
IL 10	1068+18.00		1070+90.00	272.0	544.0	68.0	216.0
TOTAL					828.0 FOOT		

DIAMOND GRINDING (BRIDGE SECTION)

STATION	TO	STATION	WIDTH	AREA
			FT.	SQ. YD.
1067+94.00		1068+44.0	32.00	178.00
1070+64.00		1071+14.0	32.00	178.00
TOTAL FROM BRIDGE PLANS				722.00
TOTAL				1078.00

EARTHWORK

LOCATION			EARTH EXCAVATION	EARTH EXCAVATION EMBANKMENT ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD
IL 10	1068+18.00	1070+90.00	1454.0	1090.5	0.00	+1090.5
IL 10	TYPE 1 SPECIAL	1064+08.00 LT	0.00	0.00	24.0	-24.0
IL 10	TYPE 1 SPECIAL	1065+95.50 RT	0.00	0.00	24.0	-24.0
IL 10	TYPE 1 SPECIAL	1073+34.43 RT	0.00	0.00	20.0	-20.0
IL 10	TYPE 1 SPECIAL	1073+96.93 LT	0.00	0.00	56.0	-56.0
SUB-TOTALS			1454.0	1090.5	124.0	+966.5

EARTH EXCAVATION = 1455.00 CU. YD.

PLOT DATE = 8/24/2006
 FILE NAME = G:\projects\0503004 (w8)\70387\text.dgn
 USER NAME = pier sonbr

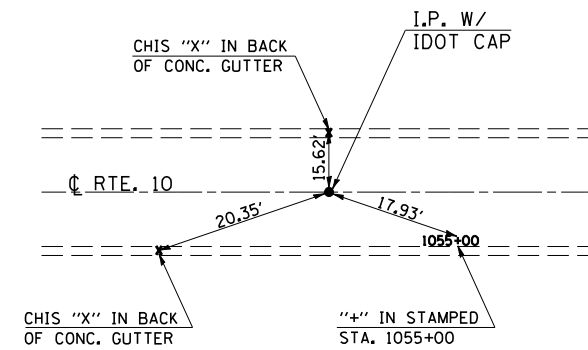
ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES
 F.A.P. ROUTE 717 (IL 10)
 SECTION (111B)BR
 DEWITT COUNTY
 Sheet 2 of 2
 SCALE: NOT TO SCALE
 DATE: 07/21/06
 DRAWN BY: B.B.P.
 CHECKED BY: R.M.N.

BENCHMARKS

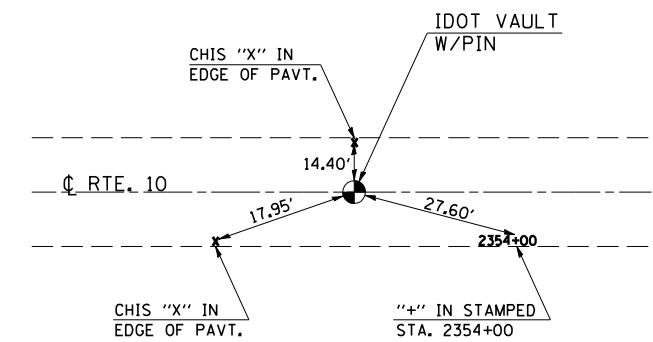
TIE POINTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(11B)BR	DEWITT	53	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

**P.O.T. #1
STATION 1054 + 89.11**



**P.C. #3
STATION 1075 + 26.33**



PLOT DATE = 8/24/2006
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 USER NAME = pierstonbr

ILLINOIS DEPARTMENT OF TRANSPORTATION

TIE POINTS

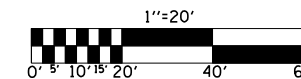
F.A.P. 717 (IL ROUTE 10)
 SECTION (11B)BR
 DEWITT COUNTY

SCALE: NOT TO SCALE
 DATE: 05/17/06

DRAWN BY: B.B.P.
 CHECKED BY: M.W.M.

SEC. 28, T. 20 N., R. 2 E., 3rd P.M.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(11)B/R	DEWITT	53	12
STA. 1060+00.00		TO STA. 1066+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

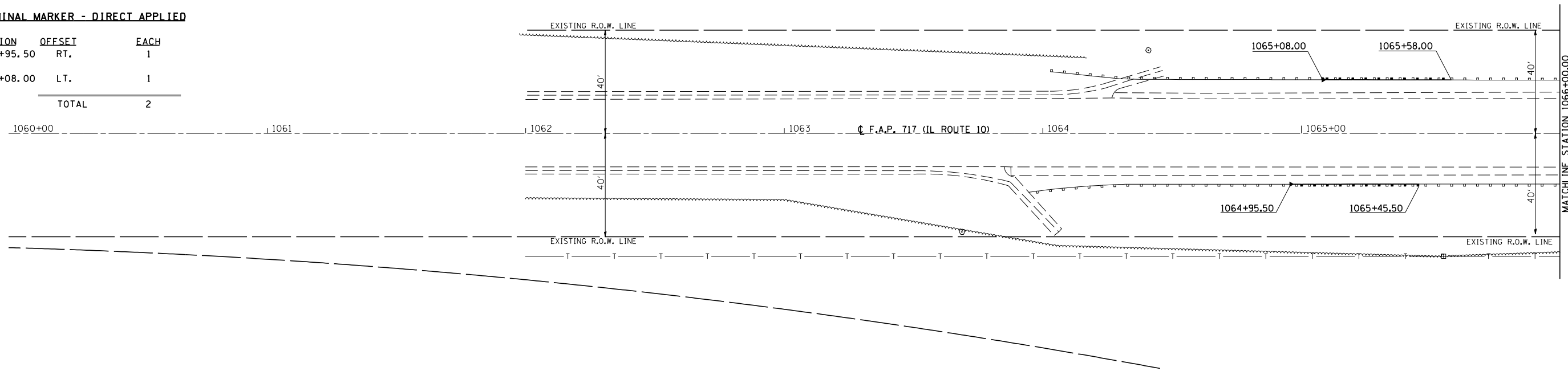


TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)

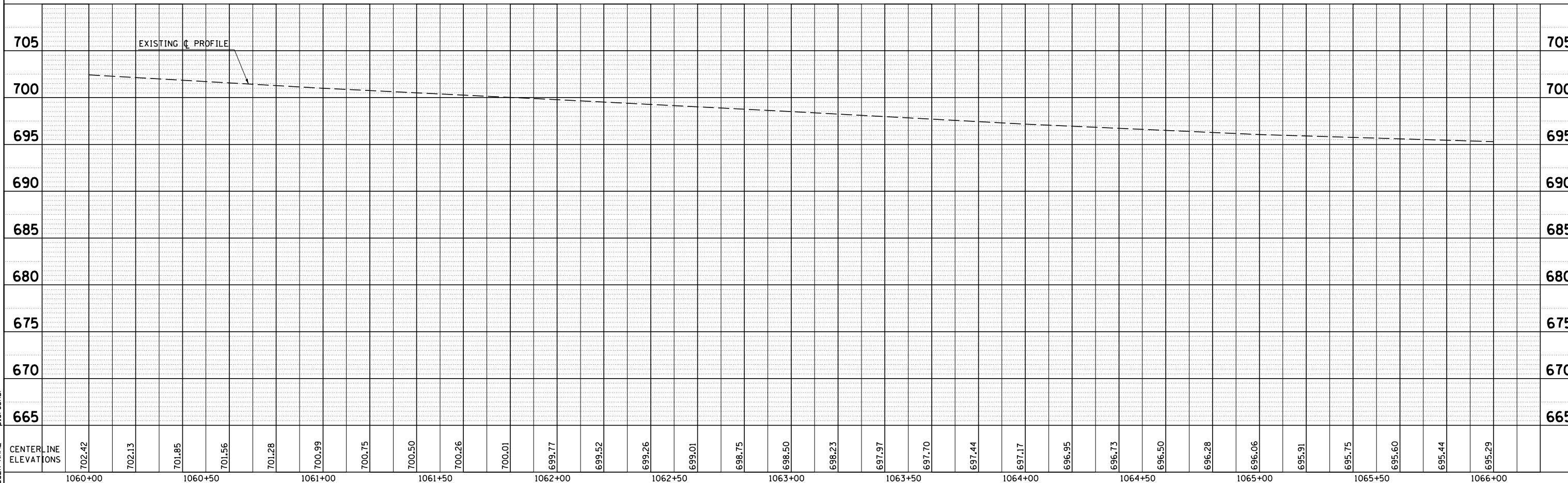
STATION	OFFSET	ID	STATION	OFFSET	EACH
1064+95.50	RT.		1065+45.50	RT.	1
1065+08.00	LT.		1065+58.00	LT.	1
TOTAL					2

TERMINAL MARKER - DIRECT APPLIED

STATION	OFFSET	EACH
1064+95.50	RT.	1
1065+08.00	LT.	1
TOTAL		2



SEC. 33, T. 20 N., R. 2 E., 3rd P.M.



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTED		
	NOTE BOOK NO.		
	FILE NAME		

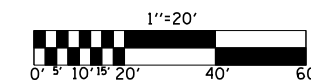
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	PLOTTED		
	NOTED		
	NOTE BOOK NO.		
	FILE NAME		

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 USER NAME = ptersonbr

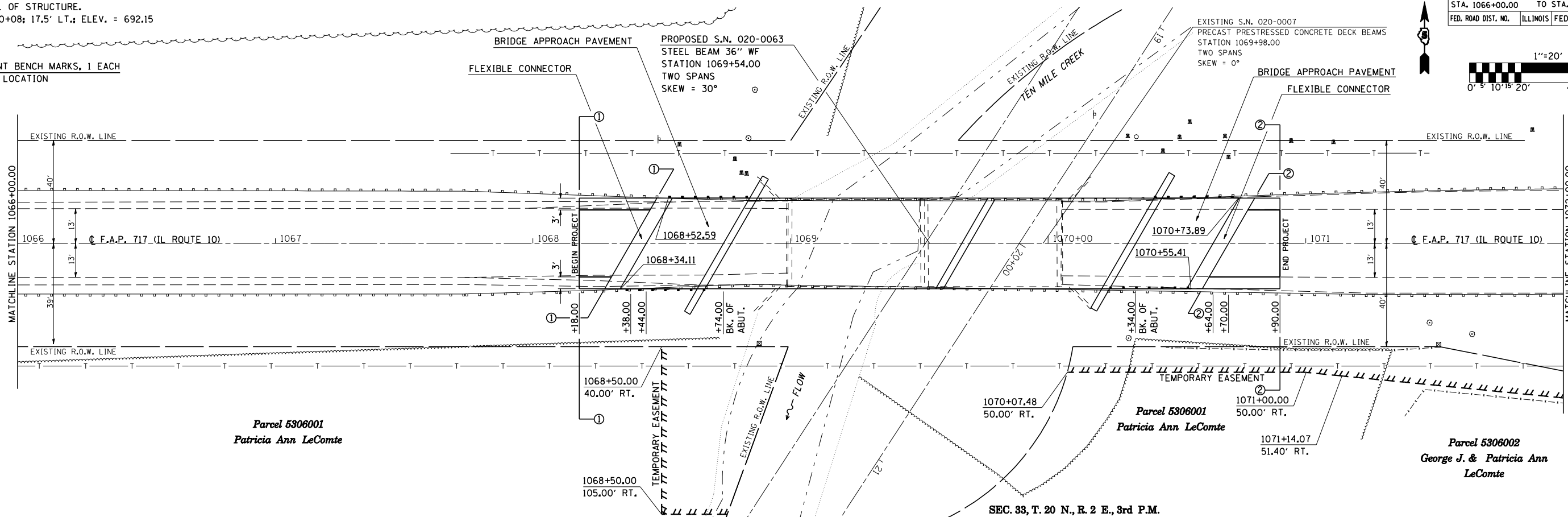
BENCHMARK TBM #53:
CHISELED SQUARE ON TOP OF NORTHEAST
WINGWALL OF STRUCTURE.
STA. 1070+08; 17.5' LT.; ELEV. = 692.15

SEC. 28, T. 20 N., R. 2 E., 3rd P.M.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	13
STA. 1066+00.00		TO STA. 1172+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PERMANENT BENCH MARKS, 1 EACH
AT SAME LOCATION



PLAN	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	

PROFILE	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	

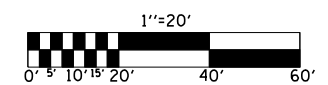
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PLOT SCALE = 42.3529' / IN.
USER NAME = pcrsonbr

STATION	EXISTING PROFILE	PROPOSED PROFILE	PROPOSED LOW BEAM ELEVATIONS	PROPOSED BRIDGE OPENING ELEVATIONS	EXISTING LOW CHORD ELEVATIONS	EXISTING BRIDGE OPENING ELEVATIONS	CENTERLINE ELEVATIONS
1066+00							695.29
1066+50							694.76
1067+00							694.44
1067+50							694.48
1068+00							694.44
1068+50	+18.00 694.45	+44.00 694.45					694.44
1069+00			689.70	677.05	678.62	682.18	694.37
1069+50			686.87	676.75	692.09	682.18	694.51
1070+00				676.75	692.09	683.98	694.36
1070+50				690.33	692.10	683.98	694.57
1071+00				690.35	692.11	683.98	694.39
1071+50				690.38	692.11	683.98	694.42
1072+00				690.41	692.11	683.98	694.62
				690.44	692.11	683.98	694.52
				690.46	692.11	683.98	694.65
					692.11	683.98	694.64
					692.11	683.98	694.74
					692.11	683.98	694.81
					692.11	683.98	694.86
					692.11	683.98	695.10
					692.11	683.98	695.34
					692.11	683.98	695.58
					692.11	683.98	695.82

TRAFFIC BARRIER TERMINAL TYPE 6					
STATION	OFFSET	IQ	STATION	OFFSET	EACH
1068+34.11	RT.		1068+64.76	RT.	1
1068+52.59	LT.		1068+83.24	LT.	1
1070+24.76	RT.		1070+55.41	RT.	1
1070+43.24	LT.		1070+73.89	LT.	1
TOTAL					4

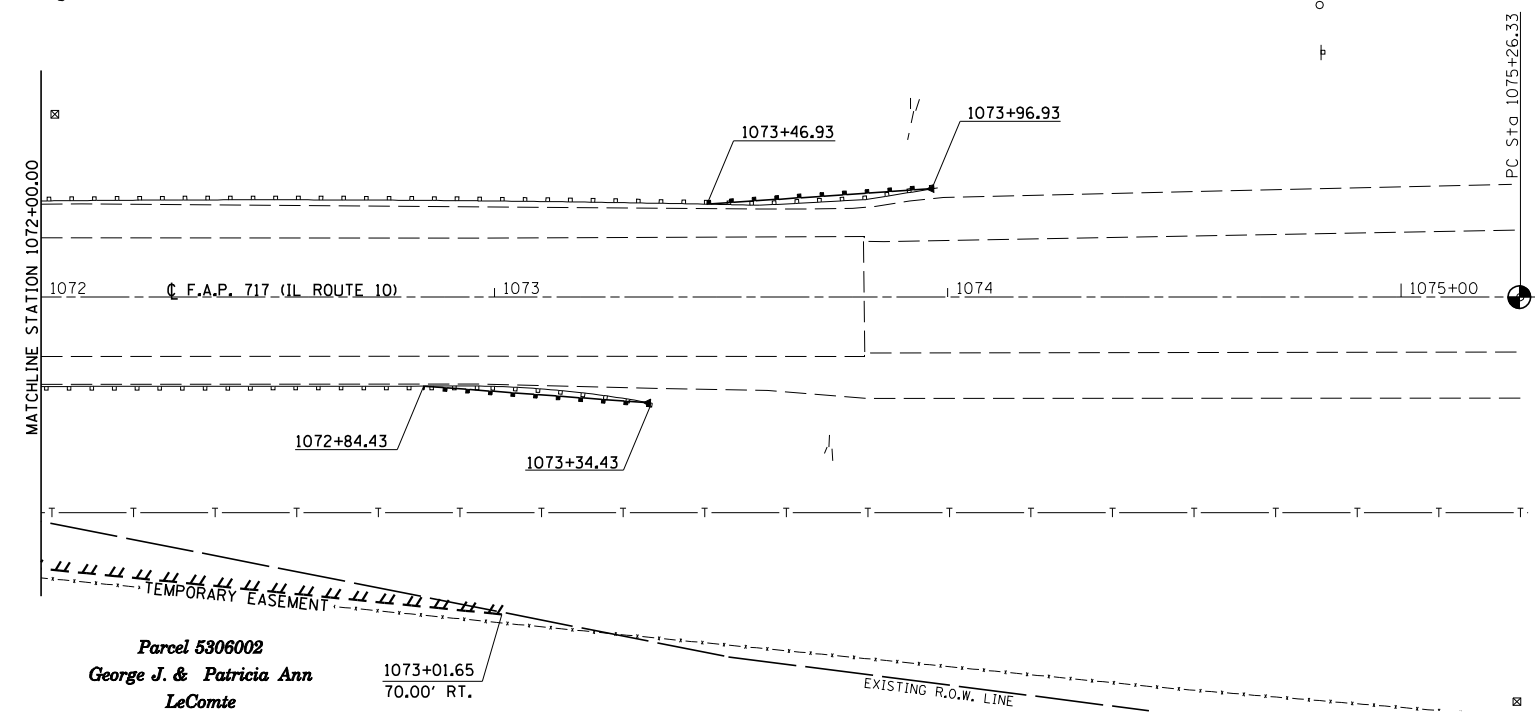
SEC. 28, T. 20 N., R. 2 E., 3rd P.M.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111)B/R	DEWITT	53	14
STA. 1072+00.00		TO STA. 1078+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE CURV4
 P.I. STA= 1078+49.44
 Δ = 15° 00' 32"
 D= 2° 20' 09"
 R= 2,452.80'
 T= 323.11'
 L= 642.52'
 E= 21.19'
 e=
 T,R,=
 S.E. RUN=
 P.C. STA= 1075+26.33
 P.T. STA= 1081+68.85

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



TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)

STATION	OFFSET	TO STATION	OFFSET	EACH
1072+84.43	RT.	1073+34.43	RT.	1
1073+46.93	LT.	1073+96.93	LT.	1
TOTAL				2

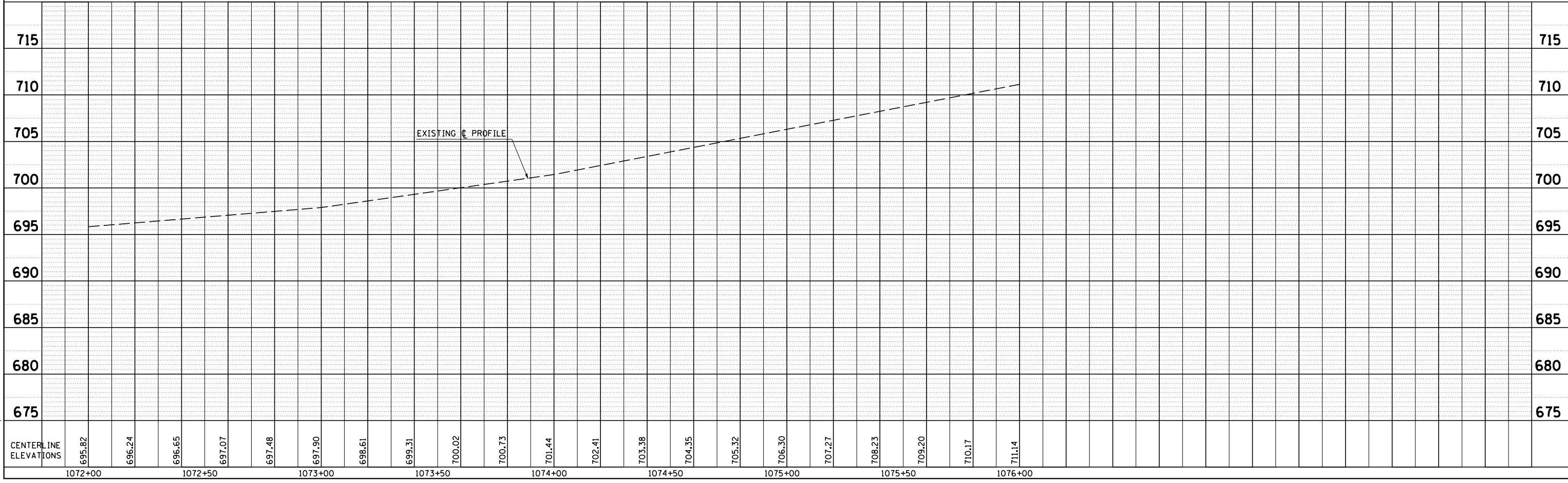
TERMINAL MARKER - DIRECT APPLIED

STATION	OFFSET	EACH
1073+34.43	RT.	1
1073+96.93	LT.	1
TOTAL		2

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO. OF WAY CHECKED		
	NO. OF STRUCTURE NOTATIONS CHKD		

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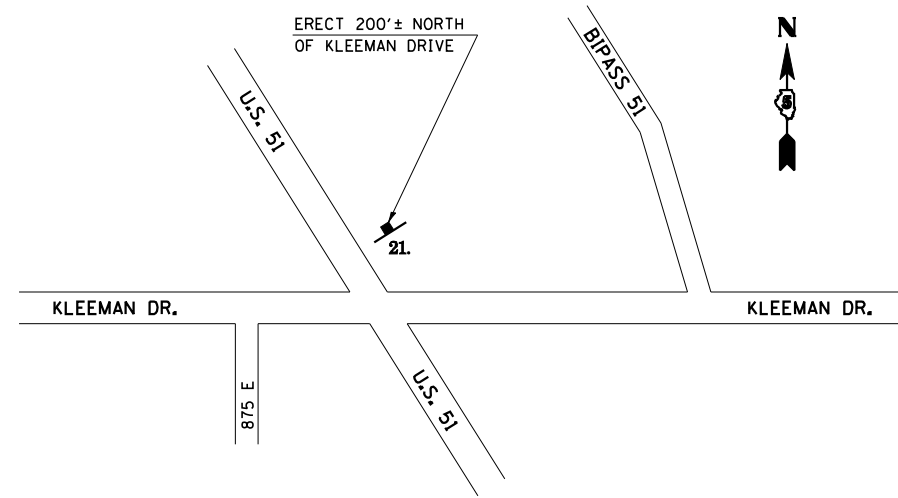
SEC. 33, T. 20 N., R. 2 E., 3rd P.M.



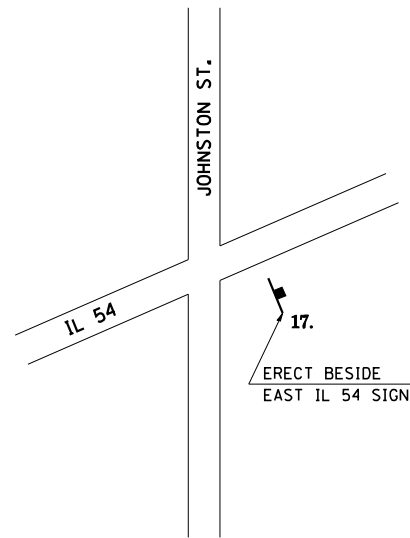
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETOUR SIGNING DETAIL

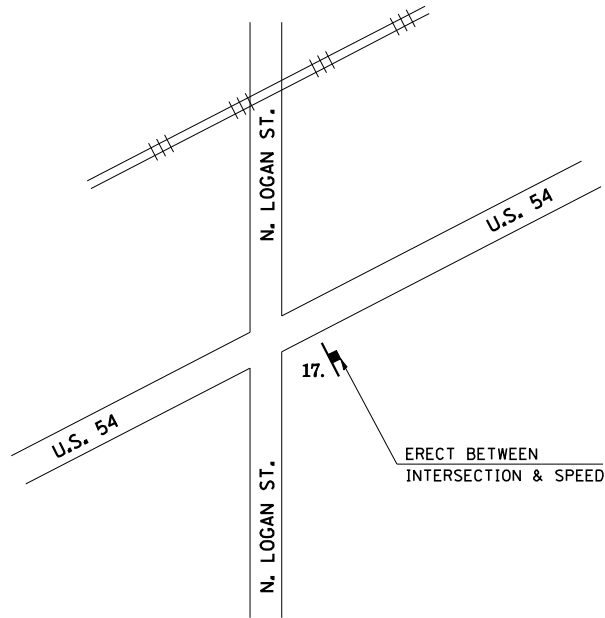
SHEET 2 OF 4



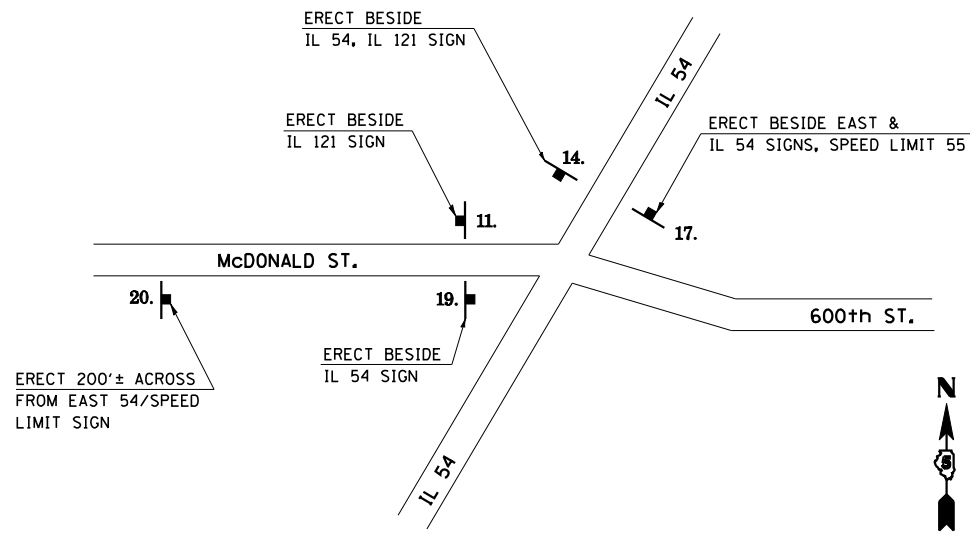
**U.S. 51 & KLEEMAN DR. INTERSECTION
AT CLINTON, IL**



**IL 54 & JOHNSON ST. INTERSECTION
AT KENNEY, IL**



**C.H. 6 (N. LOGAN ST.) & U.S. 51 INTERSECTION
AT CHESTNUT, IL**



**IL 54 & McDONALD ST./600th ST. INTERSECTION
AT MOUNT PULASKI, IL**

LEGEND

- 1. ROAD CLOSED AHEAD
- 2. ROAD CLOSED AHEAD
- 3. ROAD CLOSED AHEAD
- 4. ROAD CLOSED AHEAD
- 5. ROAD CLOSED AHEAD
- 6. ROAD CLOSED AHEAD
- 7. ROAD CLOSED AHEAD
- 8. DETOUR AHEAD
- 9. BARRICADE AHEAD
- 10. END DETOUR
- 11. DETOUR WEST ILL 10
- 12. DETOUR WEST ILL 10
- 13. DETOUR WEST ILL 10
- 14. DETOUR WEST ILL 10
- 15. DETOUR WEST ILL 10
- 16. DETOUR WEST ILL 10
- 17. DETOUR EAST ILL 10
- 18. DETOUR EAST ILL 10
- 19. DETOUR EAST ILL 10
- 20. DETOUR EAST ILL 10
- 21. ILL 10 CLOSED WEST OF 51
- 22. ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY
- 23. ROAD CLOSED TO THRU TRAFFIC

PLOT DATE = 8/25/2006
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 USER NAME = pierfsonbr

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING DETAIL

F.A.P. 717 (IL ROUTE 10)
 SECTION (111B)BR
 DEWITT COUNTY
 SHEET 2 OF 4

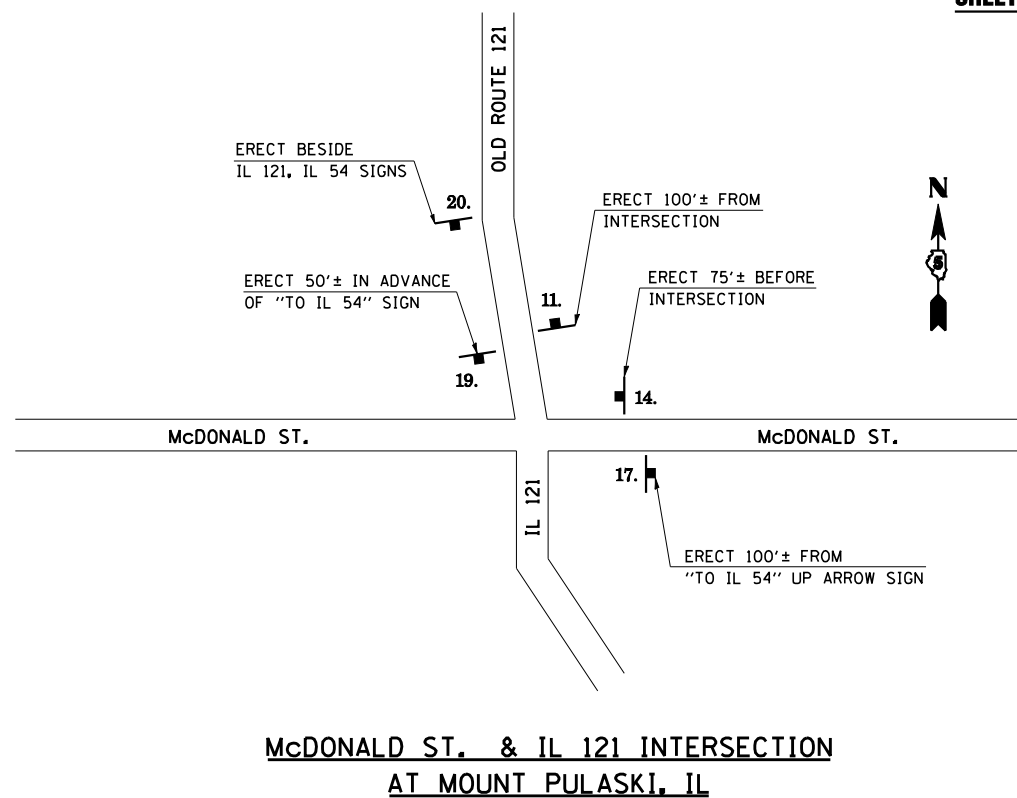
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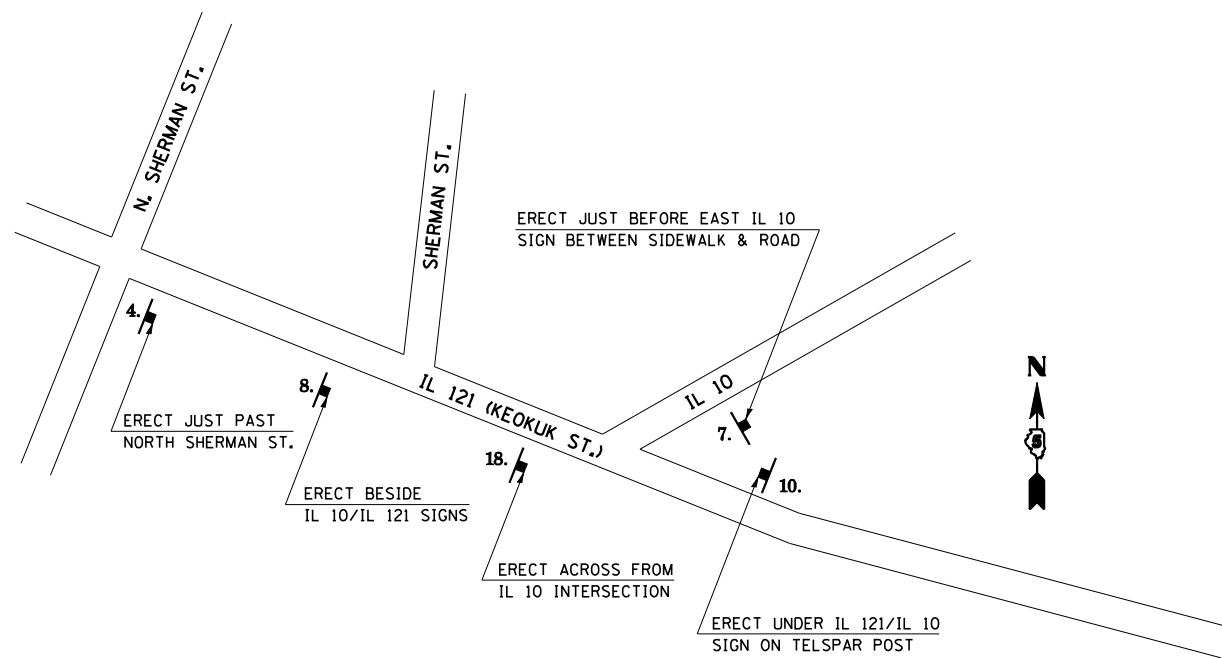
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETOUR SIGNING DETAIL

SHEET 3 OF 4



**McDONALD ST. & IL 121 INTERSECTION
AT MOUNT PULASKI, IL**



**IL 121 (KEOKUK ST.) & IL 10 INTERSECTION
AT LINCOLN, IL**

LEGEND

PLOT DATE = 8/25/2006
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 PLOT SCALE = 42.3523 / IN.
 USER NAME = pierfsonbr

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING DETAIL

F.A.P. 717 (IL ROUTE 10)
 SECTION (111B)BR
 DEWITT COUNTY
 SHEET 3 OF 4

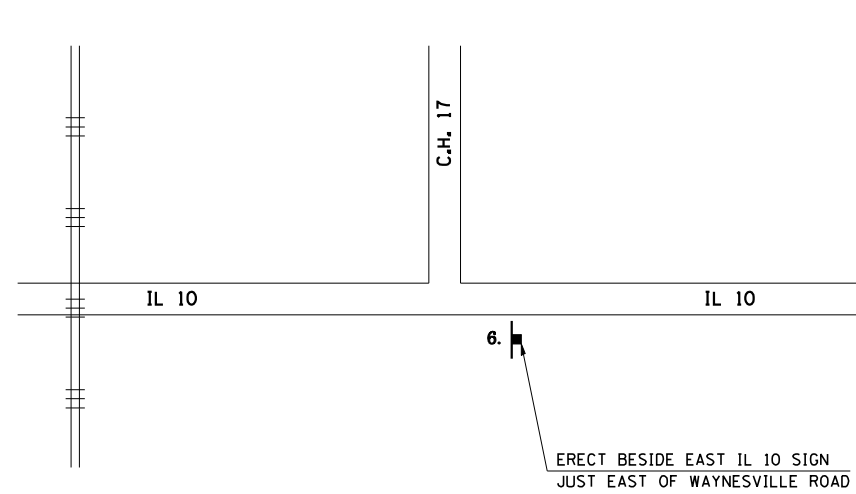
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 CHECKED BY: M.W.M.

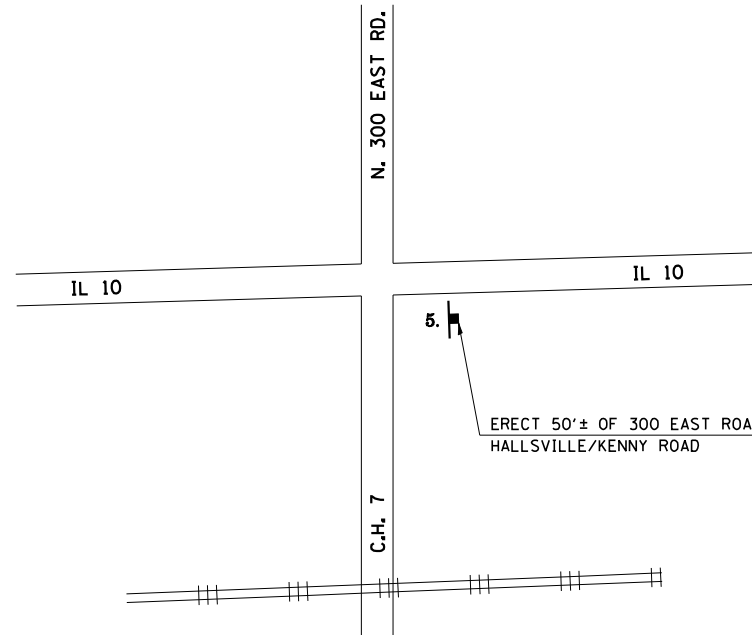
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETOUR SIGNING DETAIL

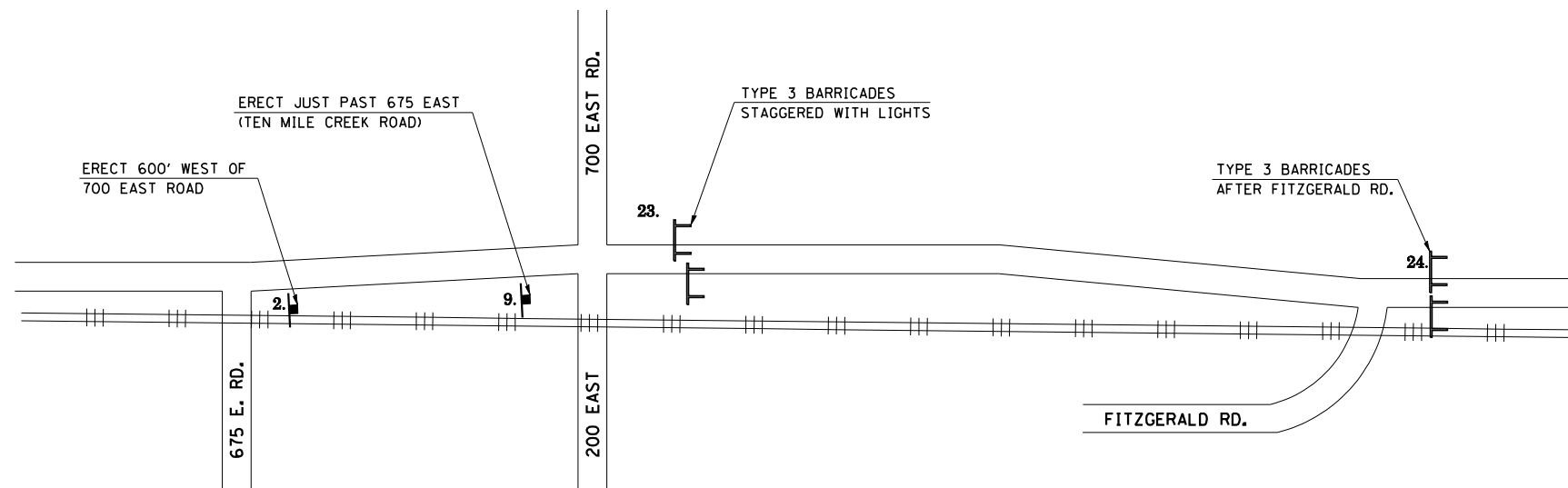
SHEET 4 OF 4



IL 10 & C.H. 17 INTERSECTION



IL 10 & C.H. 7 INTERSECTION



IL 10 & 700 EAST RD. / FITZGERALD RD. INTERSECTIONS

LEGEND

- 2. ROAD CLOSED AHEAD
- 3. ROAD CLOSED AHEAD
- 4. ROAD CLOSED AHEAD
- 5. ROAD CLOSED AHEAD
- 6. ROAD CLOSED AHEAD
- 7. ROAD CLOSED AHEAD
- 8. DETOUR AHEAD
- 9. BARRICADE AHEAD
- 10. END DETOUR
- 11. DETOUR WEST ILL 10
- 12. DETOUR WEST ILL 10
- 13. DETOUR WEST ILL 10
- 14. DETOUR WEST ILL 10
- 15. DETOUR WEST ILL 10
- 16. DETOUR WEST ILL 10
- 17. DETOUR EAST ILL 10
- 18. DETOUR EAST ILL 10
- 19. DETOUR EAST ILL 10
- 20. DETOUR EAST ILL 10
- 21. ILL 10 CLOSED WEST OF 51
- 22. ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY
- 23. ROAD CLOSED TO THRU TRAFFIC
- 24. ROAD CLOSED

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING DETAIL

F.A.P. 717 (IL ROUTE 10)
SECTION (111B)BR
DEWITT COUNTY
SHEET 4 OF 4

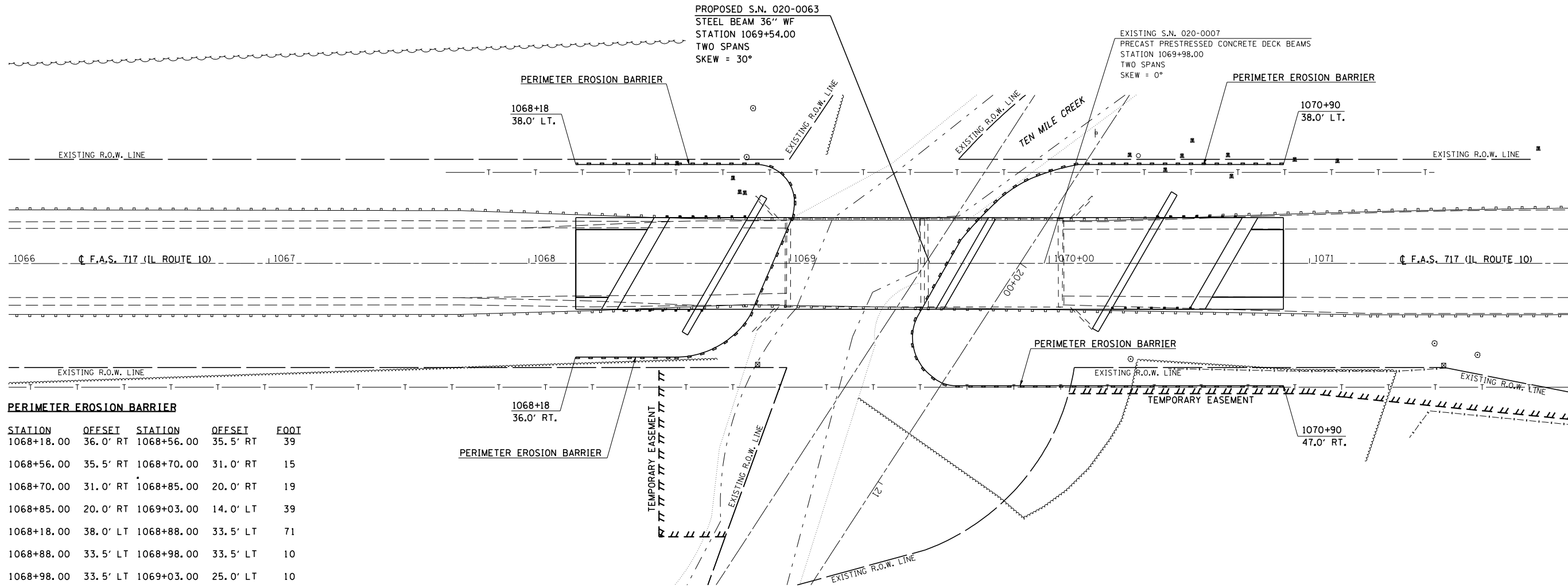
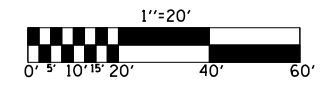
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DRAWN BY: B.B.P.
CHECKED BY: M.W.M.

PLOT DATE = 8/25/2006
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USER NAME = pierfsonbr

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	19
STA. 1066+00.00		TO STA. 1072+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EROSION CONTROL PLAN



PERIMETER EROSION BARRIER

STATION	OFFSEI	STATION	OFFSEI	FOOT
1068+18.00	36.0' RT	1068+56.00	35.5' RT	39
1068+56.00	35.5' RT	1068+70.00	31.0' RT	15
1068+70.00	31.0' RT	1068+85.00	20.0' RT	19
1068+85.00	20.0' RT	1069+03.00	14.0' LT	39
1068+18.00	38.0' LT	1068+88.00	33.5' LT	71
1068+88.00	33.5' LT	1068+98.00	33.5' LT	10
1068+98.00	33.5' LT	1069+03.00	25.0' LT	10
1069+03.00	25.0' LT	1069+03.00	14.0' LT	11
1069+49.00	26.0' RT	1069+49.00	36.0' RT	10
1069+49.00	36.0' RT	1069+55.00	44.0' RT	10
1069+55.00	44.0' RT	1069+64.00	47.0' RT	10
1069+64.00	47.0' RT	1070+90.00	49.0' RT	127
1069+49.00	26.0' RT	1069+67.00	9.0' LT	40
1069+67.00	9.0' LT	1069+74.00	17.0' LT	11
1069+74.00	17.0' LT	1069+81.00	24.0' LT	10
1069+81.00	24.0' LT	1069+89.00	30.0' LT	10
1069+89.00	30.0' LT	1069+98.00	34.0' LT	10
1069+98.00	34.0' LT	1070+06.00	37.5' LT	9
1070+06.00	37.5' LT	1070+11.00	38.0' LT	6
1070+11.00	38.0' LT	1070+90.00	38.0' LT	79

TOTAL 546

PLOT DATE = 8/24/2006
 FILE NAME = c:\projects\70387\erosionplan.dgn
 PLOT SCALE = 42.3529' / IN.
 USER NAME = piersebr

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

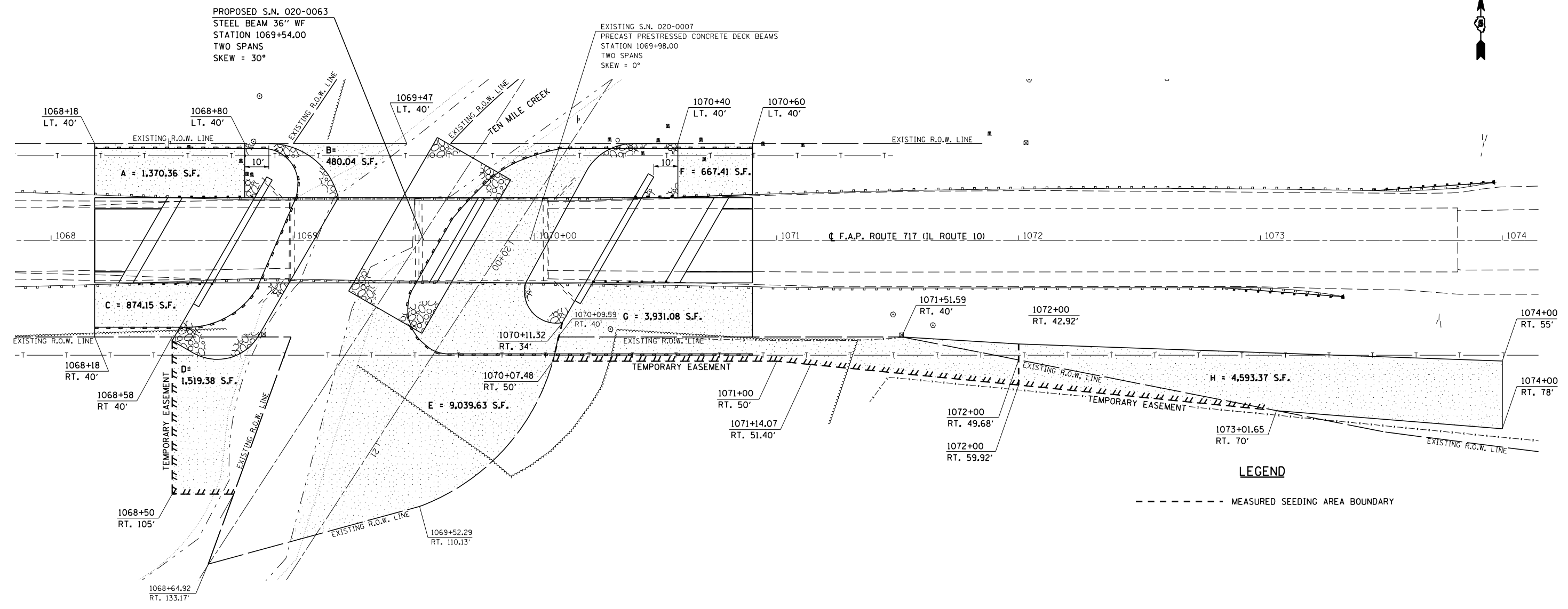
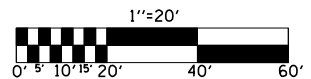
F.A.P. ROUTE 717 (IL ROUTE 10)
 SECTION (111B)BR
 DEWITT COUNTY

SCALE: 1" = 20'
 DATE: 07/26/06

DRAWN BY: B.B.P.
 CHECKED BY: R.M.N.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	20
STA. 1068+00.00		TO STA. 1074+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEEDING PLAN



LEGEND

----- MEASURED SEEDING AREA BOUNDARY

SEEDING

LOCATION		SEEDING CLASS 3 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH METHOD 2 (ACRE)	TEMPORARY EROSION CONTROL SEEDING (POUND)
WEST END	AREAS - A, B, C, & D	0.09	9.00	9.00	9.00	0.09	9.00
EAST END	AREAS - E, F, G, & H REFER TO SEEDING PLAN FOR AREA LOCATIONS	0.43	40.00	40.00	40.00	0.43	43.00
	TOTALS	0.52	49	49	49	0.52	52
	*USE	0.60	50.00	50.00	50.00	0.60	60.00
	*ROUNDED FOR ESTIMATE OF COST						

ILLINOIS DEPARTMENT OF TRANSPORTATION

SEEDING PLAN

F.A.P. ROUTE 717 (IL ROUTE 10)
SECTION (111B)BR
DEWITT COUNTY

SCALE: 1" = 20'
DATE: 07/25/06

DRAWN BY: B.B.P.
CHECKED BY: R.M.J.

PLOT DATE = 8/24/2006
FILE NAME = G:\projects\0503004 (v8)\70387\seeding.dgn
USER NAME = pier.sombir

Bench Mark: TBM #53 Chiseled square on top of Northeast wingwall of existing structure. Station 1070+08, 17.5' Left. Elev. 692.15

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO. 1
F.A.P. 717	(111B)BR	DEWITT	53	21	16 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #70387

Existing Structure: S.N. 020-0007, originally built in 1930 as S.B.I. 120, Section 111B. In 1971, the superstructure was replaced and the substructure was widened as F.A. Route 11, Section 111BR. The existing structure is a two span PPC deck beam bridge supported on closed abutments and a solid wall pier on a pile supported footing. The back to back abutments measures 106'-3 1/4" and 33'-0" out to out of deck. The existing structure is to be removed and replaced. Traffic to be detoured.

No salvage.

INDEX OF SHEETS

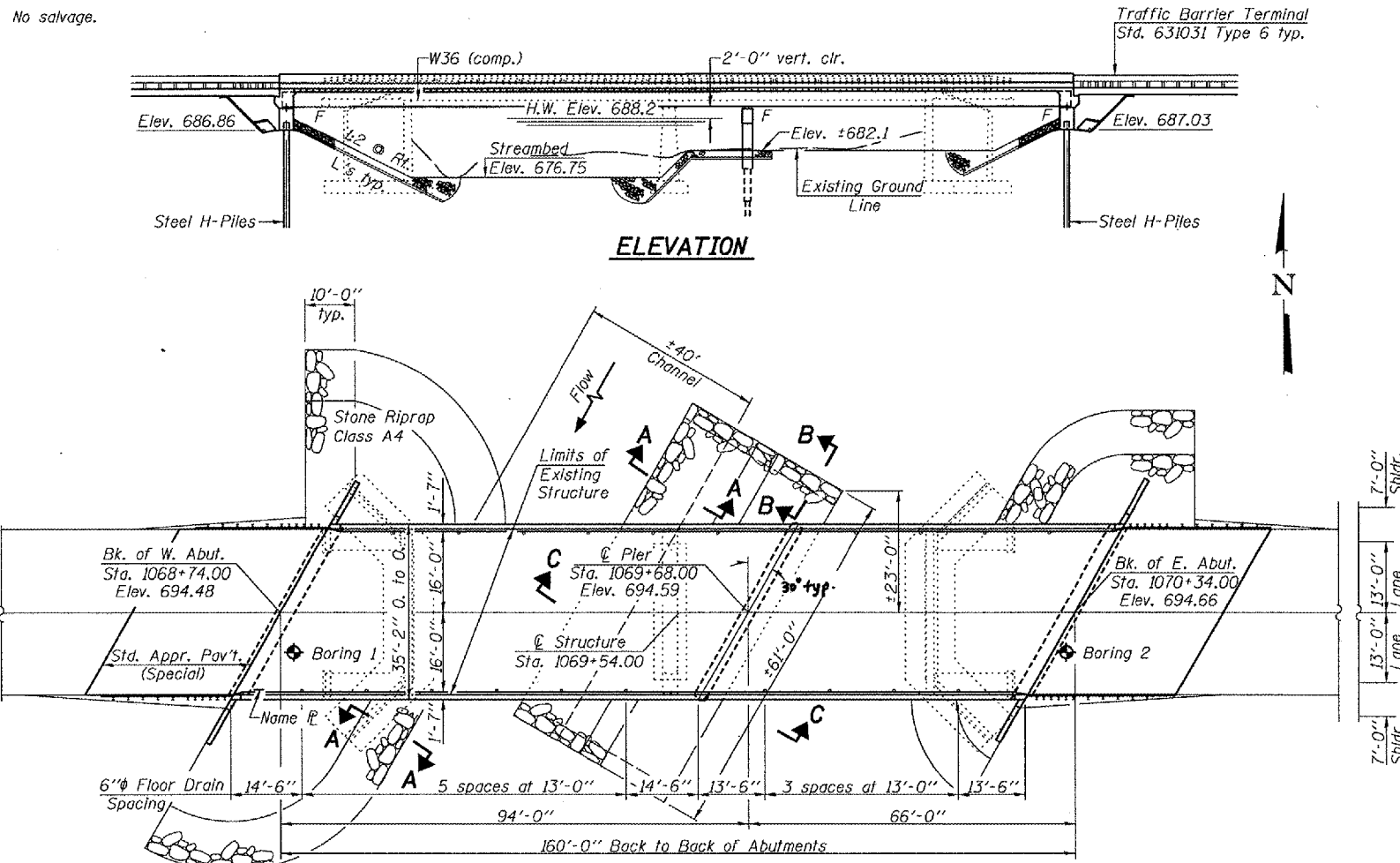
1. General Plan & Elevation
2. General Details
- 3-5. Top of Slab Elevations
6. Superstructure
7. Superstructure Details
8. Diaphragm Details
9. Structural Steel
10. Structural Steel & Bearing Details
11. Anchor Bolt Details
12. West Abutment
13. East Abutment
14. Pier
15. Bar Splicer Assembly Details
16. Boring Details

GENERAL NOTES

Fasteners shall be high strength bolts AASHTO M 164, Type 3 in unpainted areas. Bolts 7/8" ϕ , open holes 5/8" ϕ , unless otherwise noted.
 Calculated weight of Structural Steel = 179,430 pounds
 All structural steel shall be AASHTO M 270 Grade 50W.
 Field welding of construction accessories will not be permitted to beams. Anchor bolts shall be set before bolting diaphragms over supports.
 The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
 The Contractor shall drive one (1) Steel HP 12x53 test piles in a permanent location at each abutment and one (1) Steel HP 12x74 test pile in a permanent location at the pier as directed by the Engineer before ordering the remainder of piles.
 AASHTO M 270 Grade 50W structural steel shall only be painted, at the ends of the beams, for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with an inorganic zinc rich primer per AASHTO M 300, Type 1. No field painting shall be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".
 All construction joints shall be bonded.
 Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

TOTAL BILL OF MATERIAL

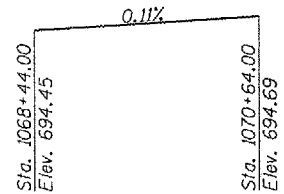
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		382	382
Protective Coat	Sq. Yd.	703		703
Concrete Structures	Cu. Yd.		70.5	70.5
Concrete Superstructure	Cu. Yd.	190.8		190.8
Furnishing and Erecting Structural Steel	L. Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	44810	8230	53040
Name Plates	Each	1		1
Porous Granular Embankment (Special)	Cu. Yd.		140	140
Furnishing Steel Piles HP 12x53	Foot		715	715
Furnishing Steel Piles HP 12x74	Foot		552	552
Driving Piles	Foot		1267	1267
Stud Shear Connectors	Each	3084		3084
Bar Splicers	Each	64		64
Floor Drains	Each	20		20
Stone Riprap, Class A4	Sq. Yd.		855	855
Test Pile Steel HP 12x53	Each		2	2
Test Pile Steel HP 12x74	Each		1	1
Filter Fabric	Sq. Yd.		855	855
Geocomposite Wall Drain	Sq. Yd.		76.4	76.4
Underwater Structure Excavation Protection-Location 1	Each	1		1
Pipe Underdrains for Structures 4"	Foot		110	110
Diamond Grinding (Bridge Section)	Sq. Yd.	722		722
Bridge Deck Grooving	Sq. Yd.	633		633



ELEVATION

PLAN

Design Scour Elevation	W. Abut.	Pier	E. Abut.
	686.80	672.75	687.00



PROFILE GRADE

DESIGNED	Steph M Ryan
CHECKED	[Signature]
DRAWN	R. Sommer
CHECKED	SMR/FT

September 29, 2006
 EXAMINED [Signature]
 PASSED [Signature]
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-2006 10 yr. velocity through Existing Bridge = 4.9 fps 10 yr. velocity through Proposed Bridge = 2.7 fps

WATERWAY INFORMATION

Exist. Low Grade Elev. 694.4 ft. @ Sta. 1068+44
 Prop. Low Grade Elev. 694.5 ft. @ Sta. 1069+52

Flood	Freq. Yr.	Q	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	2145	434	787	686.8	1.1	0.9	687.9	687.7
Base	50	3318	532	923	688.2	1.5	1.0	689.7	689.2
Overtopping	100	3818	568	1031	688.7	1.6	1.0	690.3	689.7
Max. Calc.	500	5021	650	1185	689.9	2.0	1.3	691.9	691.2

STATION 1069+54.00
 BUILT 200 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 717 - SEC. (111B)BR
 LOADING HL93
 STR. NO. 020-0063

NAME PLATE

See Std. 515001

LOADING HL-93

Allow 50 psf for future wearing surface

DESIGN SPECIFICATIONS

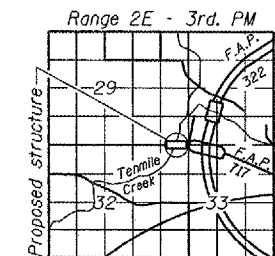
2004 AASHTO LRFD Bridge Design Specifications with 2005 Interims

DESIGN STRESSES

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Bedrock Acceleration Coefficient (A) = 0.05g
 Site Coefficient (S) = 1.5



LOCATION SKETCH

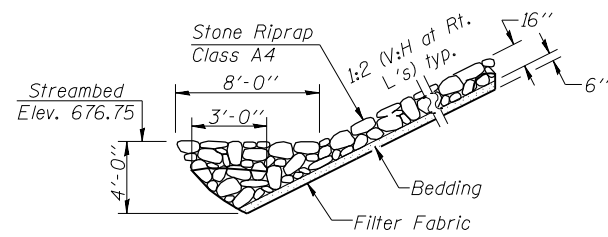
GENERAL PLAN & ELEVATION

ILLINOIS ROUTE 10 OVER
TENMILE CREEK
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

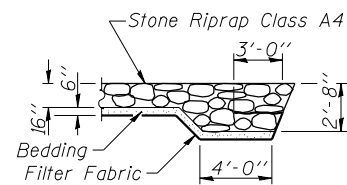
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F.A.P. 717	(111B)BR	DEWITT	53	22	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

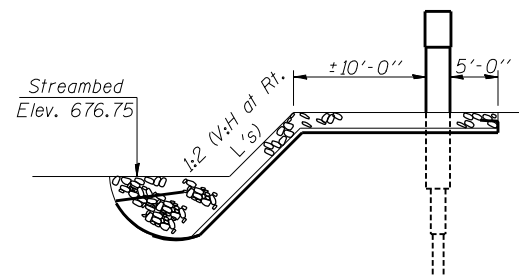
Contract #70387



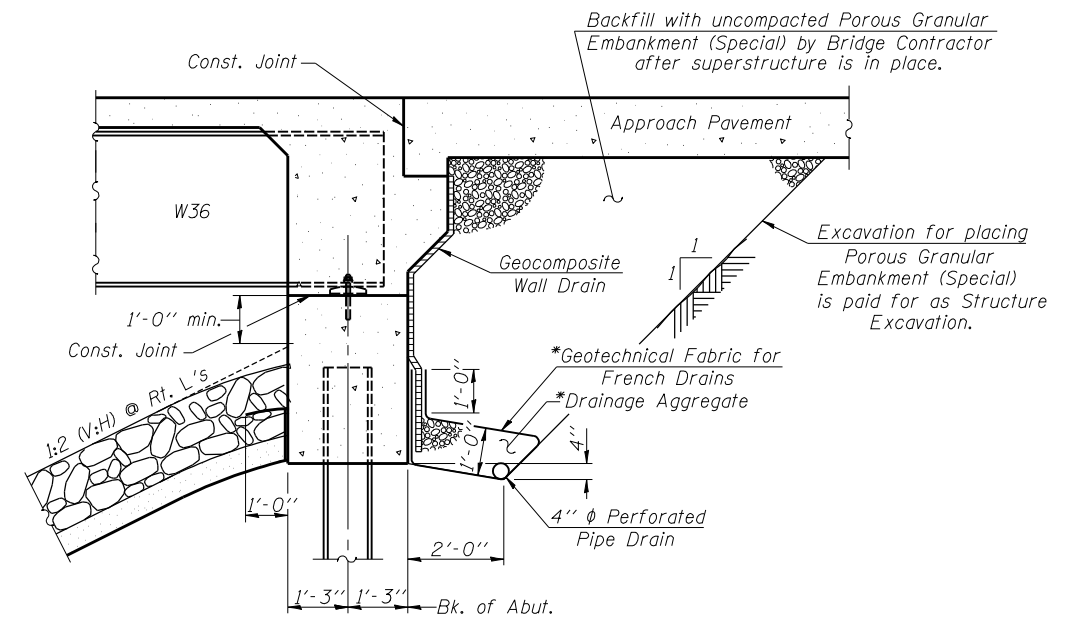
SECTION A-A



SECTION B-B



SECTION C-C



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

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

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).

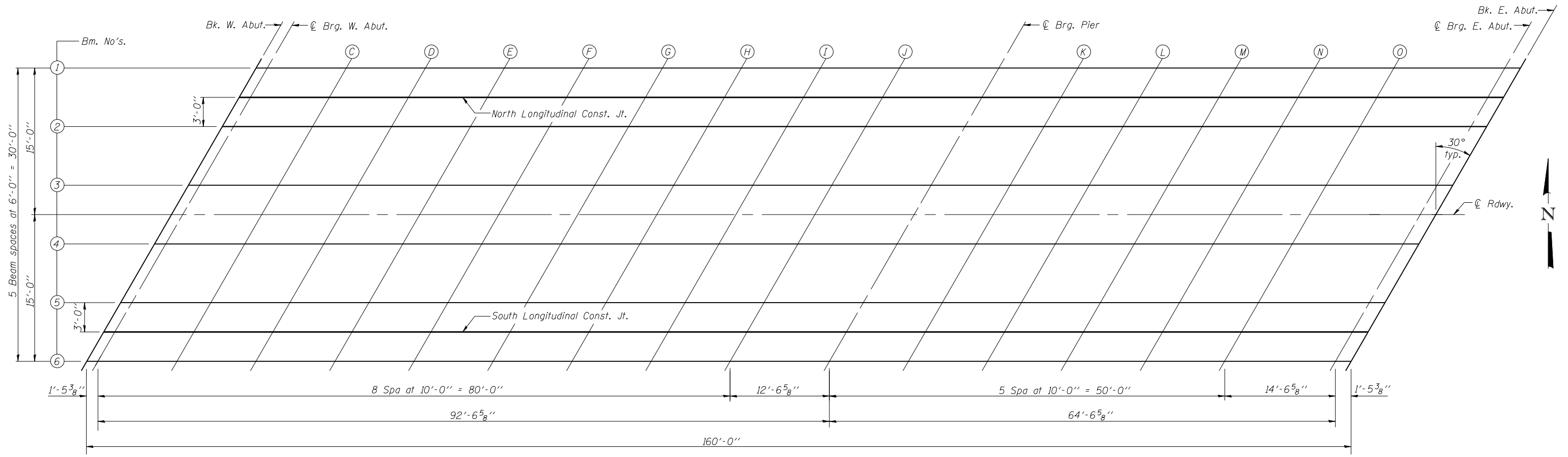
DESIGNED Stephen M. Ryan
CHECKED Angela J. Bryant
DRAWN R. Sommer
CHECKED S.M.R./F.T.

September 29, 2006
EXAMINED Thomas J. Domagalaki
PASSED Ralph E. Anderson

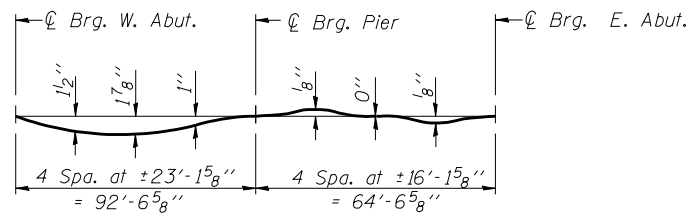
GENERAL DETAILS
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 717	SECTION (111B)BR	COUNTY DEWITT	TOTAL SHEETS 53	SHEET NO. 23	SHEET NO. 3 16 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT Contract #70387		



PLAN



DEAD LOAD DEFLECTION DIAGRAM

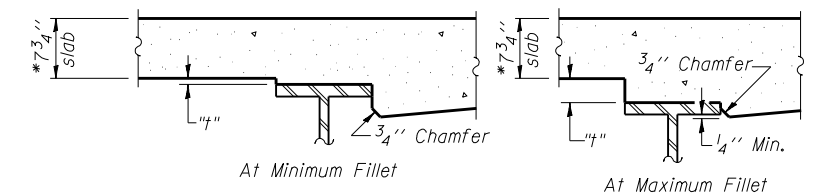
(Includes weight of concrete only.)

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 this sheet and sheet 4 of 16.

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection & Grinding
Bk W Abut	106882.66	-15.00	694.25	694.27
☉ Brg. W Abut	106884.10	-15.00	694.25	694.27
A	106894.10	-15.00	694.26	694.33
B	106904.10	-15.00	694.27	694.40
C	106914.10	-15.00	694.28	694.43
D	106924.10	-15.00	694.29	694.46
E	106934.10	-15.00	694.30	694.47
F	106944.10	-15.00	694.31	694.45
G	106954.10	-15.00	694.33	694.43
H	106964.10	-15.00	694.34	694.40
☉ Brg. Pier	106976.66	-15.00	694.35	694.37
I	106986.66	-15.00	694.36	694.38
J	106996.66	-15.00	694.37	694.39
K	107006.66	-15.00	694.38	694.40
L	107016.66	-15.00	694.39	694.42
M	107026.66	-15.00	694.40	694.43
☉ Brg. E Abut	107041.22	-15.00	694.42	694.44
Bk E Abut	107042.66	-15.00	694.42	694.44



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection & Grinding" shown on this sheet and sheet 4 of 16, minus 7/8" deck thickness, equals the fillet heights "t" 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 this sheet and sheet 4 of 16. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

*Prior to grinding.

DESIGNED	Stephen M. Ryan
CHECKED	Angela J. Bryant
DRAWN	R. Sommer
CHECKED	S.M.R./F.T.

EXAMINED	September 29, 2006	Thomas J. Domagalaki
PASSED	Ralph E. Anderson	ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4
F.A.P. 717	(111B)BR	DEWITT	53	24	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #70387

NORTH LONGITUDINAL CONSTRUCTION JOINT

BEAM 2

BEAM 3

☉ ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection & Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection & Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection & Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection & Grinding
Bk W Abut	106880.93	-12.00	694.31	694.33	Bk W Abut	106879.20	-9.00	694.35	694.37	Bk W Abut	106875.73	-3.00	694.44	694.46	Bk W Abut	106874.00	0.00	694.49	694.51
☉ Brg W Abut	106882.37	-12.00	694.31	694.33	☉ Brg W Abut	106880.64	-9.00	694.35	694.37	☉ Brg W Abut	106877.18	-3.00	694.44	694.46	☉ Brg W Abut	106875.44	0.00	694.49	694.51
A	106892.37	-12.00	694.32	694.39	A	106890.64	-9.00	694.36	694.44	A	106887.18	-3.00	694.45	694.53	A	106885.44	0.00	694.50	694.57
B	106902.37	-12.00	694.33	694.46	B	106900.64	-9.00	694.38	694.50	B	106897.18	-3.00	694.47	694.59	B	106895.44	0.00	694.51	694.64
C	106912.37	-12.00	694.34	694.49	C	106910.64	-9.00	694.39	694.54	C	106907.18	-3.00	694.48	694.63	C	106905.44	0.00	694.52	694.67
D	106922.37	-12.00	694.35	694.52	D	106920.64	-9.00	694.40	694.57	D	106917.18	-3.00	694.49	694.65	D	106915.44	0.00	694.53	694.70
E	106932.37	-12.00	694.36	694.53	E	106930.64	-9.00	694.41	694.57	E	106927.18	-3.00	694.50	694.66	E	106925.44	0.00	694.54	694.71
F	106942.37	-12.00	694.37	694.51	F	106940.64	-9.00	694.42	694.56	F	106937.18	-3.00	694.51	694.65	F	106935.44	0.00	694.55	694.69
G	106952.37	-12.00	694.39	694.49	G	106950.64	-9.00	694.43	694.54	G	106947.18	-3.00	694.52	694.63	G	106945.44	0.00	694.57	694.67
H	106962.37	-12.00	694.40	694.46	H	106960.64	-9.00	694.44	694.51	H	106957.18	-3.00	694.53	694.60	H	106955.44	0.00	694.58	694.64
☉ Brg Pier	106974.93	-12.00	694.41	694.43	☉ Brg Pier	106973.20	-9.00	694.46	694.48	☉ Brg Pier	106969.73	-3.00	694.55	694.57	☉ Brg Pier	106968.00	0.00	694.59	694.61
I	106984.93	-12.00	694.42	694.44	I	106983.20	-9.00	694.47	694.48	I	106979.73	-3.00	694.56	694.57	I	106978.00	0.00	694.60	694.62
J	106994.93	-12.00	694.43	694.45	J	106993.20	-9.00	694.48	694.49	J	106989.73	-3.00	694.57	694.58	J	106988.00	0.00	694.61	694.63
K	107004.93	-12.00	694.44	694.47	K	107003.20	-9.00	694.49	694.51	K	106999.73	-3.00	694.58	694.60	K	106998.00	0.00	694.62	694.64
L	107014.93	-12.00	694.45	694.48	N	107013.20	-9.00	694.50	694.53	L	107009.73	-3.00	694.59	694.61	L	107008.00	0.00	694.63	694.66
M	107024.93	-12.00	694.47	694.49	M	107023.20	-9.00	694.51	694.54	M	107019.73	-3.00	694.60	694.63	M	107018.00	0.00	694.64	694.67
☉ Brg E Abut	107039.49	-12.00	694.48	694.50	☉ Brg E Abut	107037.75	-9.00	694.53	694.55	☉ Brg E Abut	107034.29	-3.00	694.62	694.64	☉ Brg E Abut	107032.56	0.00	694.66	694.68
Bk E Abut	107040.93	-12.00	694.48	694.50	Bk E Abut	107039.20	-9.00	694.53	694.55	Bk E Abut	107035.73	-3.00	694.62	694.64	Bk E Abut	107034.00	0.00	694.66	694.68

BEAM 4

BEAM 5

SOUTH LONGITUDINAL CONSTRUCTION JOINT

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection & Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection & Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection & Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection & Grinding
Bk W Abut	106872.27	3.00	694.44	694.46	Bk W Abut	106868.80	9.00	694.34	694.36	Bk W Abut	106867.07	12.00	694.29	694.31	Bk W Abut	106865.34	15.00	694.23	694.25
☉ Brg W Abut	106873.71	3.00	694.44	694.46	☉ Brg W Abut	106870.25	9.00	694.34	694.36	☉ Brg W Abut	106868.51	12.00	694.29	694.31	☉ Brg W Abut	106866.78	15.00	694.23	694.25
A	106883.71	3.00	694.45	694.52	A	106880.25	9.00	694.35	694.43	A	106878.51	12.00	694.30	694.38	A	106876.78	15.00	694.24	694.31
B	106893.71	3.00	694.46	694.59	B	106890.25	9.00	694.36	694.49	B	106888.51	12.00	694.32	694.44	B	106886.78	15.00	694.25	694.38
C	106903.71	3.00	694.47	694.63	C	106900.25	9.00	694.38	694.53	C	106898.51	12.00	694.33	694.48	C	106896.78	15.00	694.26	694.42
D	106913.71	3.00	694.48	694.65	D	106910.25	9.00	694.39	694.55	D	106908.51	12.00	694.34	694.57	D	106906.78	15.00	694.27	694.44
E	106923.71	3.00	694.49	694.66	E	106920.25	9.00	694.40	694.56	E	106918.51	12.00	694.35	694.51	E	106916.78	15.00	694.28	694.45
F	106933.71	3.00	694.51	694.64	F	106930.25	9.00	694.41	694.54	F	106928.51	12.00	694.36	694.50	F	106926.78	15.00	694.30	694.43
G	106943.71	3.00	694.52	694.62	G	106940.25	9.00	694.42	694.53	G	106938.51	12.00	694.37	694.48	G	106936.78	15.00	694.31	694.41
H	106953.71	3.00	694.53	694.60	H	106950.25	9.00	694.43	694.50	H	106948.51	12.00	694.38	694.45	H	106946.78	15.00	694.32	694.39
☉ Brg Pier	106966.27	3.00	694.54	694.56	☉ Brg Pier	106962.80	9.00	694.44	694.46	☉ Brg Pier	106961.07	12.00	694.40	694.42	☉ Brg Pier	106959.34	15.00	694.33	694.35
I	106976.27	3.00	694.55	694.57	I	106972.80	9.00	694.45	694.47	I	106971.07	12.00	694.41	694.42	I	106969.34	15.00	694.34	694.36
J	106986.27	3.00	694.56	694.58	J	106982.80	9.00	694.47	694.48	J	106981.07	12.00	694.42	694.43	J	106979.34	15.00	694.35	694.37
K	106996.27	3.00	694.57	694.60	K	106992.80	9.00	694.48	694.50	K	106991.07	12.00	694.43	694.45	K	106989.34	15.00	694.36	694.39
L	107006.27	3.00	694.59	694.61	L	107002.80	9.00	694.49	694.51	L	107001.07	12.00	694.44	694.46	L	106999.34	15.00	694.37	694.40
M	107016.27	3.00	694.60	694.62	M	107012.80	9.00	694.50	694.53	M	107011.07	12.00	694.45	694.48	M	107009.34	15.00	694.39	694.41
☉ Brg E Abut	107030.82	3.00	694.61	694.63	☉ Brg E Abut	107027.36	9.00	694.51	694.52	☉ Brg E Abut	107025.63	12.00	694.47	694.49	☉ Brg E Abut	107023.90	15.00	694.40	694.42
Bk E Abut	107032.27	3.00	694.61	694.63	Bk E Abut	107028.80	9.00	694.52	694.54	Bk E Abut	107027.07	12.00	694.47	694.49	Bk E Abut	107025.34	15.00	694.40	694.42

DESIGNED	Stephen M. Ryan
CHECKED	Angela J. Bryant
DRAWN	R. Sommer
CHECKED	S.M.R./F.T.

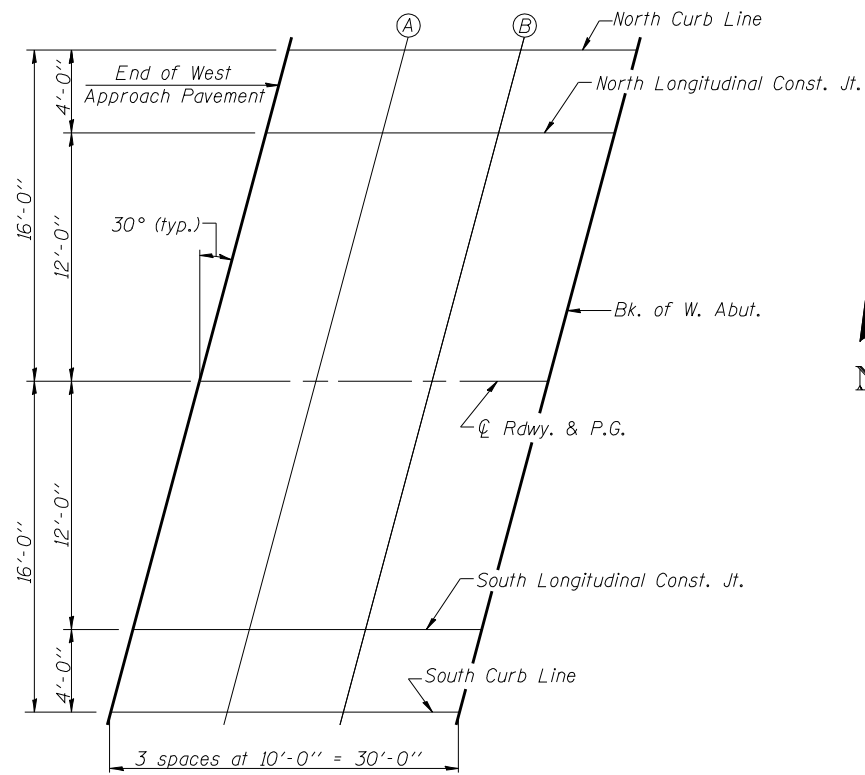
September 29, 2006
 EXAMINED *Thomas J. Domagalaki*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

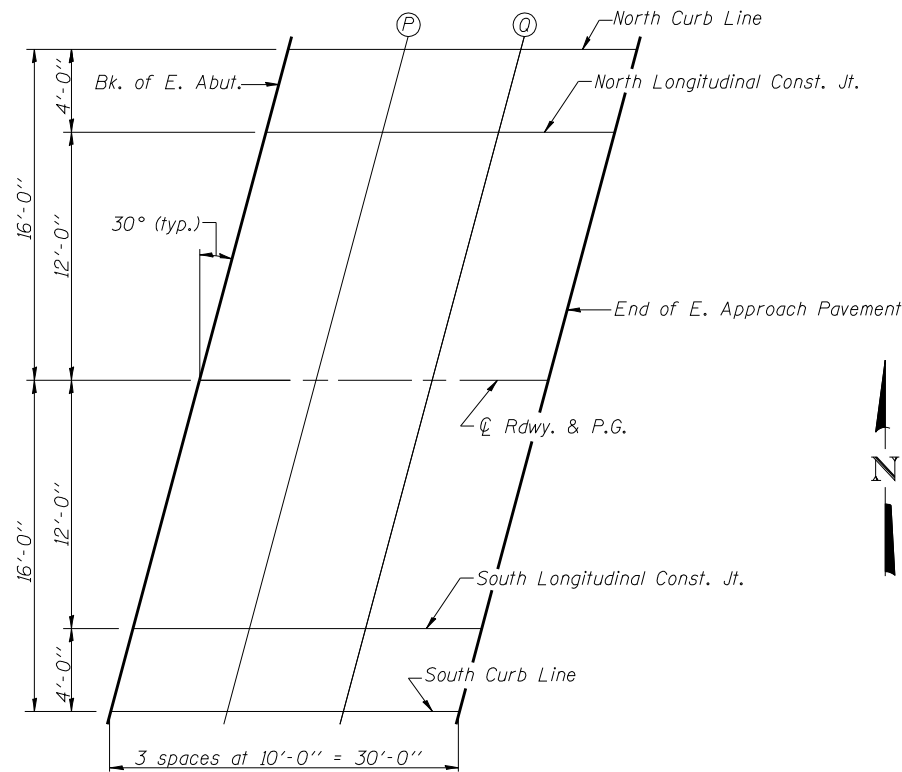
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.P. 717	(111B)BR	DEWITT	53	25	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70387



PLAN
(West Approach)



PLAN
(East Approach)

DESIGNED	Stephen M. Ryan
CHECKED	Angela J. Bryant
DRAWN	R. Sommer
CHECKED	S.M.R./F.T.

EXAMINED	September 29, 2006	Thomas J. Domagalaki	ENGINEER OF BRIDGE DESIGN
PASSED		Ralph E. Anderson	ENGINEER OF BRIDGES AND STRUCTURES

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End W Approach Pvm	106853.24	-16.00	694.19	694.21
A	106863.24	-16.00	694.20	694.22
B	106873.24	-16.00	694.22	694.24
Bk W Abut	106883.24	-16.00	694.23	694.25
Bk E Abut	107043.24	-16.00	694.40	694.42
P	107053.24	-16.00	694.41	694.43
Q	107063.24	-16.00	694.42	694.44
End E Approach Pvm	107073.24	-16.00	694.44	694.46

SOUTH LONGITUDINAL CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End W Approach Pvm	106837.07	12.00	694.26	694.28
A	106847.07	12.00	694.27	694.29
B	106857.07	12.00	694.28	694.30
Bk W Abut	106867.07	12.00	694.29	694.31
Bk E Abut	107027.07	12.00	694.47	694.49
P	107037.07	12.00	694.48	694.50
Q	107047.07	12.00	694.49	694.51
End E Approach Pvm	107057.07	12.00	694.50	694.52

NORTH LONGITUDINAL CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End W Approach Pvm	106850.93	-12.00	694.27	694.29
A	106860.93	-12.00	694.28	694.30
B	106870.93	-12.00	694.30	694.32
Bk W Abut	106880.93	-12.00	694.31	694.33
Bk E Abut	107040.93	-12.00	694.48	694.50
P	107050.93	-12.00	694.49	694.51
Q	107060.93	-12.00	694.50	694.52
End E Approach Pvm	107070.93	-12.00	694.52	694.54

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End W Approach Pvm	106834.76	16.00	694.17	694.19
A	106844.76	16.00	694.18	694.20
B	106854.76	16.00	694.19	694.21
Bk W Abut	106864.76	16.00	694.21	694.23
Bk E Abut	107024.76	16.00	694.38	694.40
P	107034.76	16.00	694.39	694.41
Q	107044.76	16.00	694.40	694.42
End E Approach Pvm	107054.76	16.00	694.41	694.43

CL ROADWAY & P.G.

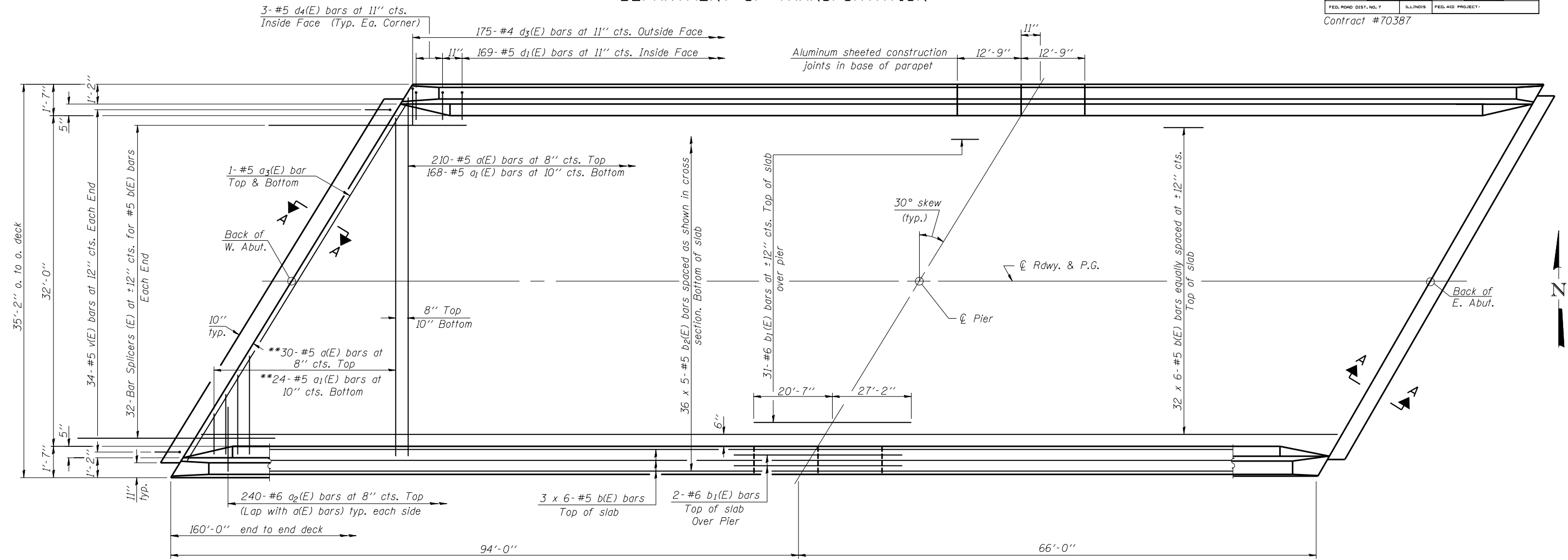
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
End W Approach Pvm	106844.00	0.00	694.45	694.47
A	106854.00	0.00	694.46	694.48
B	106864.00	0.00	694.48	694.50
Bk W Abut	106874.00	0.00	694.49	694.51
Bk E Abut	107034.00	0.00	694.66	694.68
P	107044.00	0.00	694.67	694.69
Q	107054.00	0.00	694.68	694.70
End E Approach Pvm	107064.00	0.00	694.70	694.72

BRIDGE APPROACH
TOP OF SLAB ELEVATIONS
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6
F.A.P. 717	(111B)BR	DEWITT	53	26	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #70387

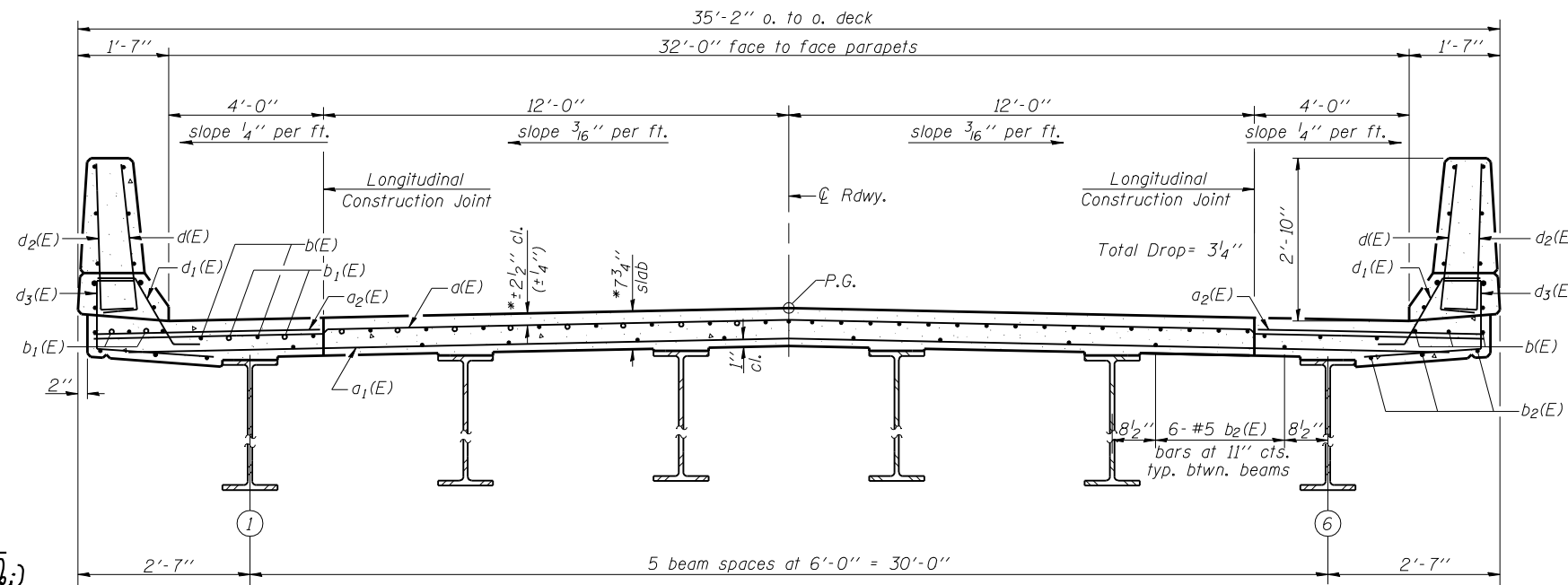


PLAN

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

Notes: See Sheet 7 of 16 for superstructure details
and Bill of Material.
Reinforcement bars designated (E) shall be
epoxy coated.
Bars indicated thus 36 x 5- #5 etc. indicates
36 lines of bars with 5 lengths per line.
See Sheet 7 of 16 for parapet reinforcement.
See Sheet 8 of 16 for Section A-A.
See sheet 15 of 16 for bar splicer details.

MIN. BAR LAP
#5 bars = 1'-8"



CROSS SECTION
(Looking East)

*Prior to Grinding

DESIGNED	Stephen M. Ryan
CHECKED	Angela J. Bryant
DRAWN	R. Sommer
CHECKED	S.M.R./F.T.

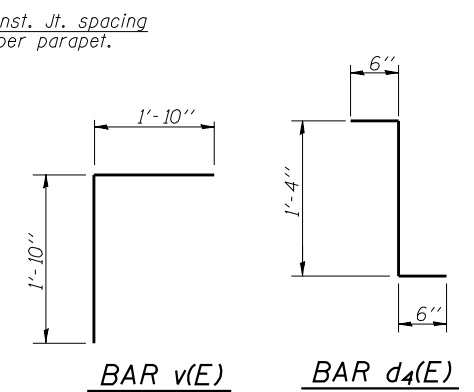
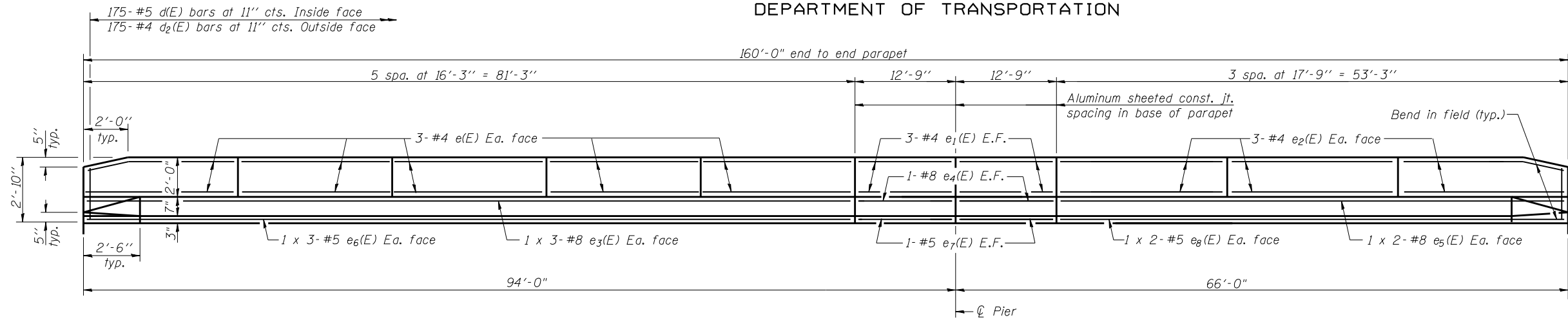
September 29, 2006
EXAMINED <i>Thomas J. Domagalaki</i>
PASSED <i>Ralph E. Anderson</i>
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

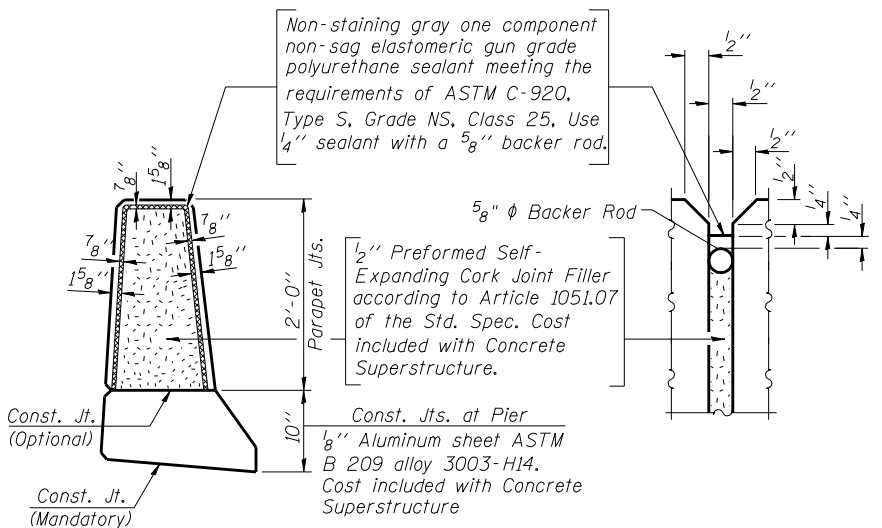
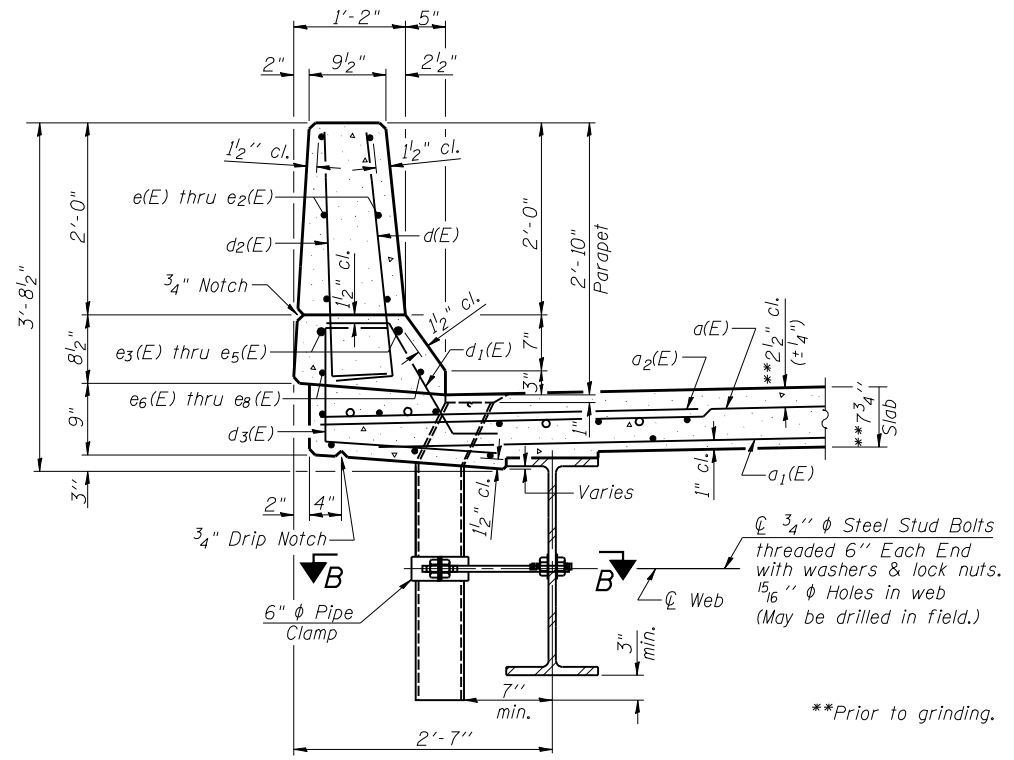
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F.A.P. 717	(111B)BR	DEWITT	53	27	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70387



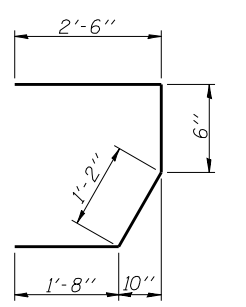
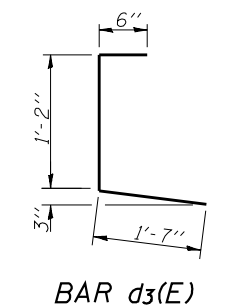
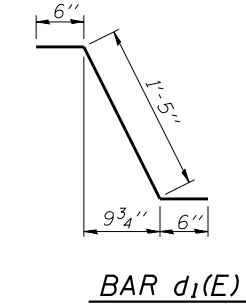
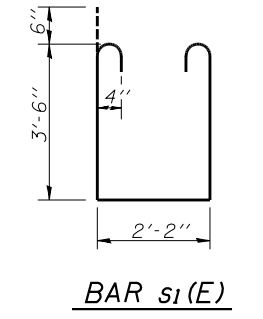
MIN. BAR LAPS
#5 bar = 1'-8"
#8 bar = 3'-5"

INSIDE ELEVATION OF PARAPET



PARAPET JOINT DETAILS

Note: Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Floor drains need not be painted.



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	240	#5	34'-6"	—
a ₁ (E)	192	#5	34'-0"	—
a ₂ (E)	480	#6	6'-0"	—
a ₃ (E)	4	#5	39'-10"	—
b(E)	228	#5	28'-0"	—
b ₁ (E)	35	#6	47'-9"	—
b ₂ (E)	180	#5	33'-4"	—
d(E)	350	#5	3'-0"	┘
d ₁ (E)	338	#5	2'-5"	┘
d ₂ (E)	350	#4	3'-0"	┘
d ₃ (E)	350	#4	3'-3"	┘
d ₄ (E)	12	#5	2'-4"	┘
e(E)	60	#4	16'-0"	—
e ₁ (E)	24	#4	12'-6"	—
e ₂ (E)	36	#4	17'-6"	—
e ₃ (E)	12	#8	29'-3"	—
e ₄ (E)	8	#8	12'-6"	—
e ₅ (E)	8	#8	28'-3"	—
e ₆ (E)	12	#5	28'-2"	—
e ₇ (E)	8	#5	12'-6"	—
e ₈ (E)	8	#5	28'-3"	—
m(E)	4	#6	38'-2"	—
m ₁ (E)	6	#6	40'-2"	—
m ₂ (E)	24	#6	9'-8"	—
m ₃ (E)	10	#6	6'-7"	—
m ₄ (E)	4	#6	2'-8"	—
s(E)	72	#5	5'-10"	┘
s ₁ (E)	72	#4	10'-2"	┘
v(E)	68	#5	3'-8"	┘
Reinforcement Bars, Epoxy Coated		Pound	44810	
Concrete Superstructure		Cu. Yds.	190.8	

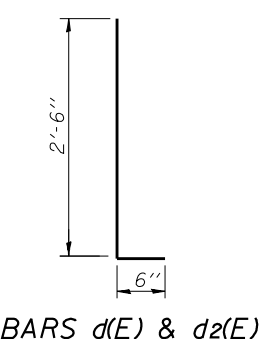
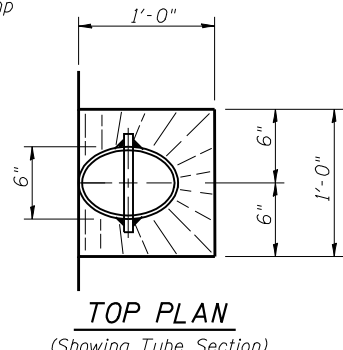
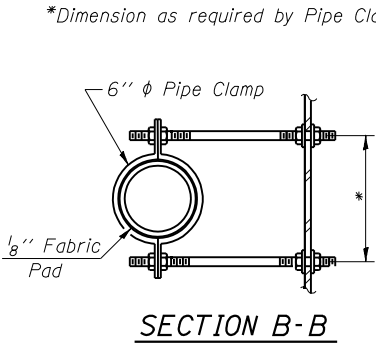
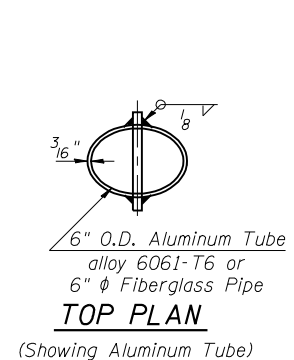
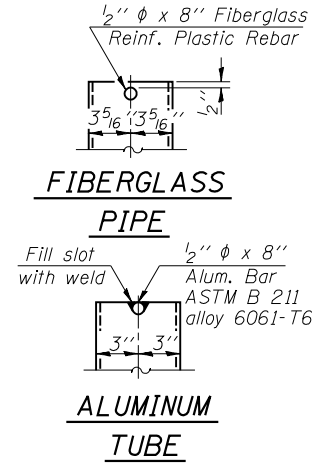
Reinforcement bars designated (E) shall be epoxy coated. Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

SUPERSTRUCTURE DETAILS
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

SECTION THRU PAPERET

DESIGNED Stephen M. Ryan
CHECKED Angela J. Bryant
DRAWN R. Sommer
CHECKED S.M.R./F.T.

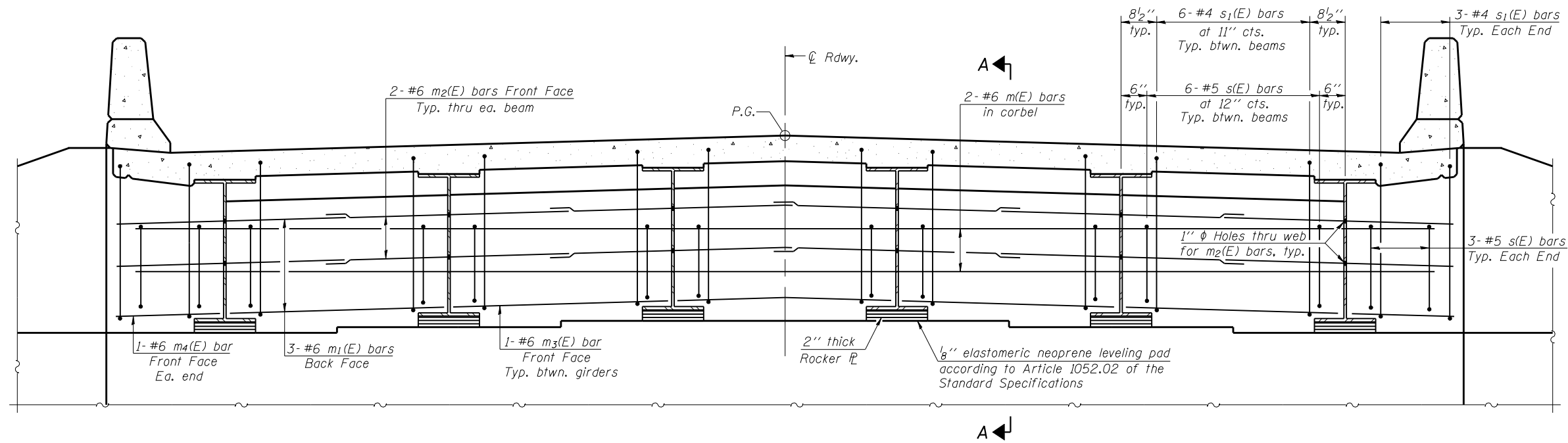
September 29, 2006
EXAMINED Thomas J. Domagalski
PASSED Ralph E. Anderson



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8 16 SHEETS
F.A.P. 717	(111B)BR	DEWITT	53	28	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70387



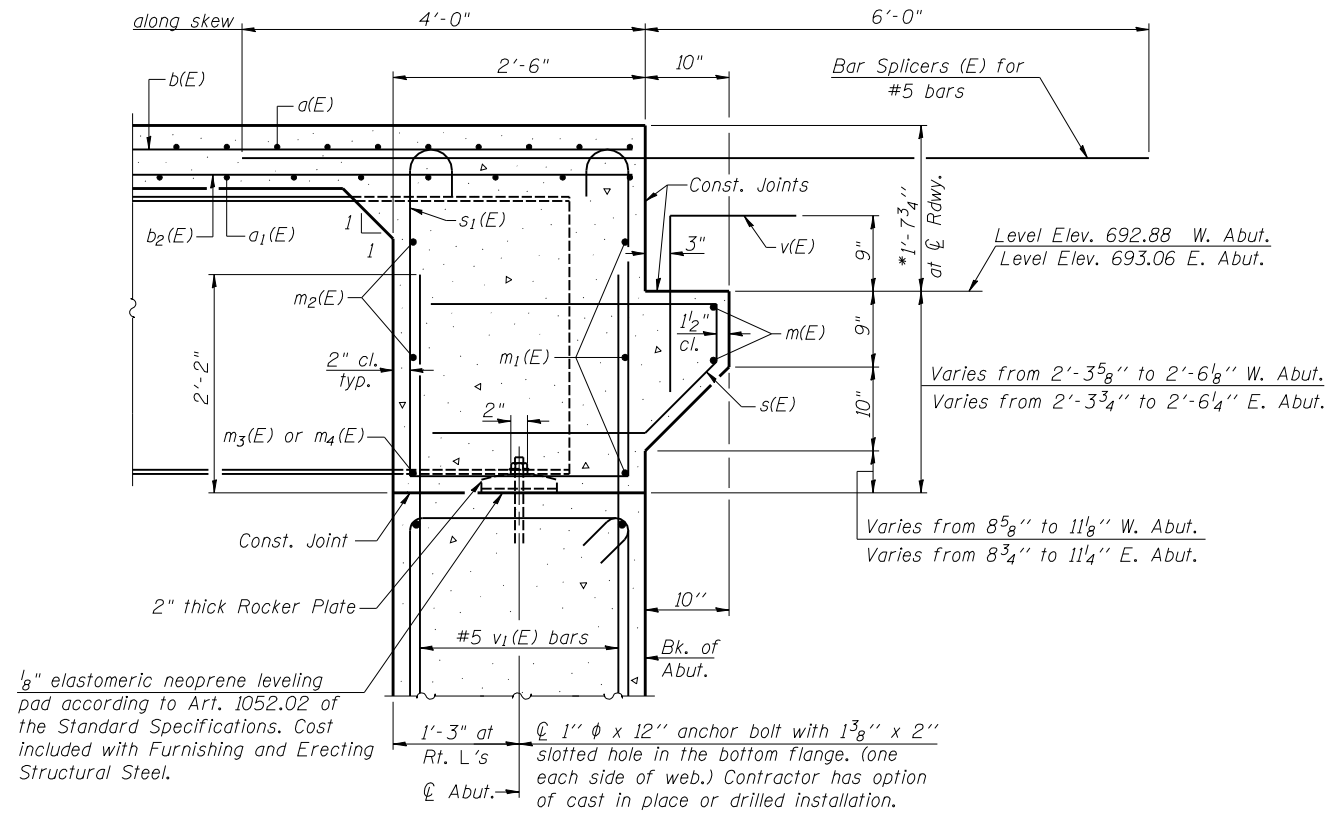
DIAPHRAGM ELEVATION AT ABUTMENT

(Looking East at East Abutment)
(West Abutment Similar)

- Notes:
- Reinforcement bars in diaphragm are billed with superstructure on sheet 7 of 16.
 - Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 16.
 - For details of bars s(E) & s₁(E) see sheet 7 of 16.
 - For anchor bolt details see sheet 11 of 16.
 - The s(E) and s₁(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 - For bar splicer details, see sheet 15 of 16.

MIN. BAR LAP

#6 bar = 2'-9"



SECTION A-A

*Prior to Grinding.
Dimensions at right angles to abutment, except as shown.

DESIGNED	Stephen M. Ryan
CHECKED	Angela J. Bryant
DRAWN	R. Sommer
CHECKED	S.M.R./F.T.

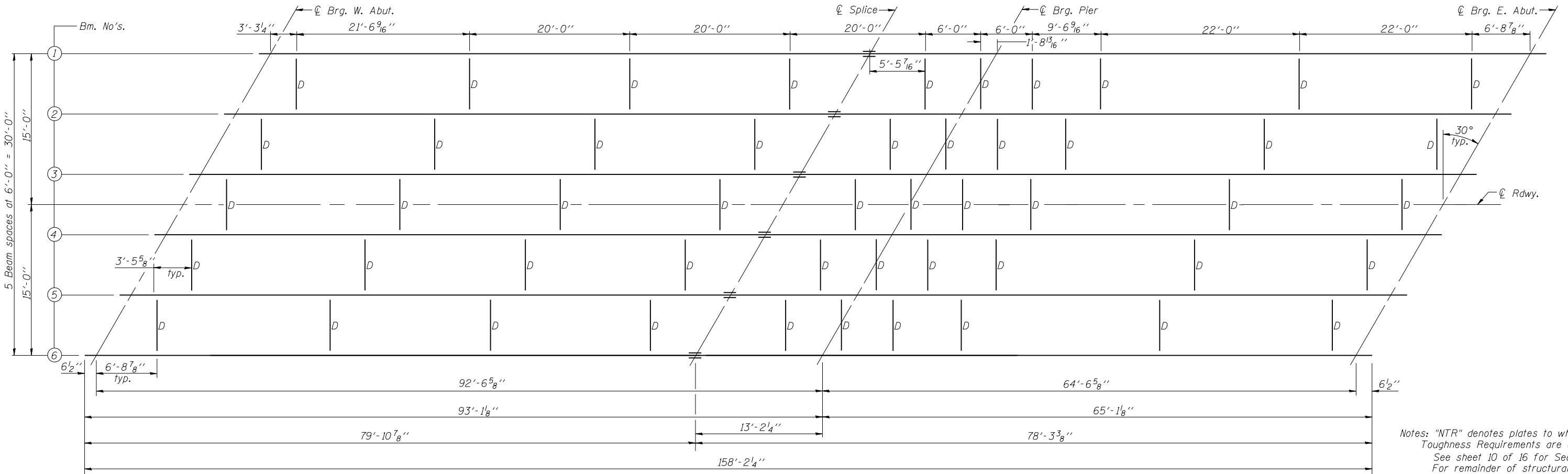
September 29, 2006
EXAMINED *Thomas J. Domagalaki*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

DIAPHRAGM DETAILS
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

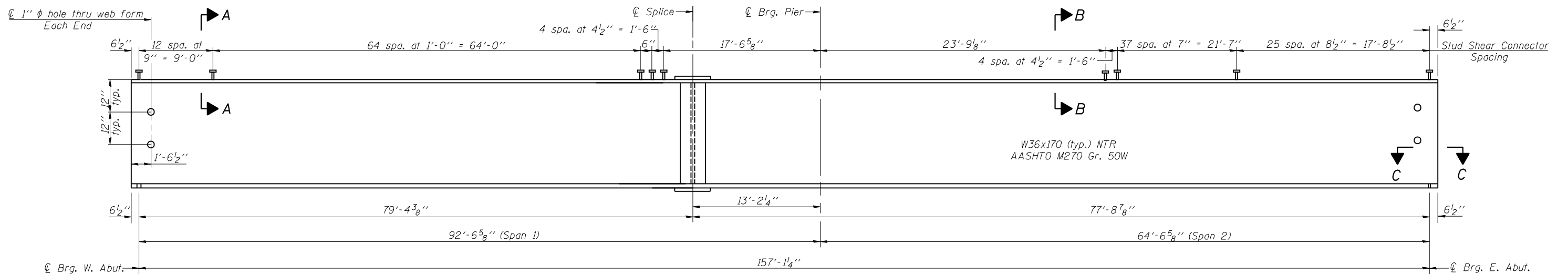
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F.A.P. 717	(111B)BR	DEWITT	53	29	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70387



Notes: "NTR" denotes plates to which Notch Toughness Requirements are applicable. See sheet 10 of 16 for Section C-C. For remainder of structural steel details see sheet 10 of 16.

FRAMING PLAN

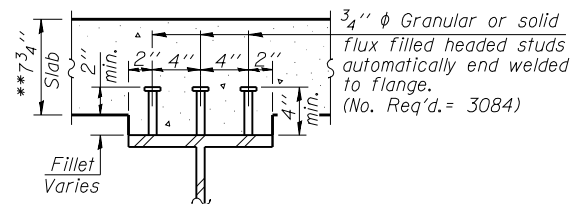


BEAM ELEVATION

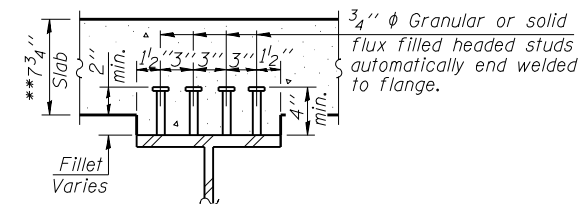
*TOP OF BEAM ELEVATIONS

Location	℄ Brg. W. Abut.	℄ Splice	℄ Brg. Pier	℄ Brg. E. Abut.
Beam 1	693.58	693.58	693.61	693.75
Beam 2	693.68	693.68	693.71	693.86
Beam 3	693.77	693.77	693.80	693.95
Beam 4	693.77	693.77	693.80	693.94
Beam 5	693.67	693.67	693.70	693.84
Beam 6	693.56	693.56	693.59	693.73

*For fabrication only.



SECTION A-A
(For all studs in Span 1)



SECTION B-B
(For all studs in Span 2)

**Prior to Grinding

DESIGNED Stephen M. Ryan
CHECKED Angela J. Bryant
DRAWN R. Sommer
CHECKED S.M.R./F.T.

September 29, 2006
EXAMINED Thomas J. Domagalaki
PASSED Ralph E. Anderson
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
F.A.P. 717	(111B)BR	DEWITT	53	30	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #70387

	0.4 Sp. 1	Pier	0.6 Sp. 2
I_s	(in ⁴) 10500	10500	10500
I_c (n)	(in ⁴) 25037		25037
I_c (3n)	(in ⁴) 18057		18057
S_s	(in ³) 581	581	581
S_c (n)	(in ³) 819		819
S_c (3n)	(in ³) 733		733
Z	(in ³)	668	
DC1	(k/ft.) 0.789	0.789	0.789
M DC1	('k) 544	667	128
DC2	(k/ft.) 0.15	0.15	0.15
M DC2	('k) 117	94	37
DW	(k/ft.) 0.3	0.3	0.3
M DW	('k) 233	188	75
$M_{\perp} + Imp$	('k) 1028	647	671
M_o (Strength I)	('k) 2974	2366	1492
ϕfM_n	('k) 4062	2750	4062
f_s DC1	(k.s.i.) 11.3	13.8	2.6
f_s DC2	(k.s.i.) 1.9	1.9	0.6
f_s DW	(k.s.i.) 3.8	3.9	1.2
f_s 1.3(L+I)	(k.s.i.) 19.6	17.4	12.8
f_s (Service II)	(k.s.i.) 36.6	37.0	17.2
f_s (Total)(Strength I)	(k.s.i.)		
Vsr	(k) 28.3		26.7

	W. Abut.	Pier	E. Abut.
R DC1	(k) 29.3	79.5	15.1
R DC2+DW	(k) 17.8	42.8	10.2
R \perp	(k) 68.2	94.0	58.8
R Imp.	(k) 15.9	18.8	14.9
R (Total)	(k) 131.2	235.1	99.0

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s due to non-composite loads.

$I_c(n)$ and $S_c(n)$ are the moment of inertia and section modulus of the composite section used in computing f_s due to short-term composite loads.

$I_c(3n)$ and $S_c(3n)$ are the moment of inertia and section modulus of the composite section used in computing f_s due to long-term composite loads.

Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

DC1 is the dead load acting on the non-composite section.

DC2 is the dead load acting on the long-term composite section.

DW is the dead load acting on the long-term composite section due to wearing surface.

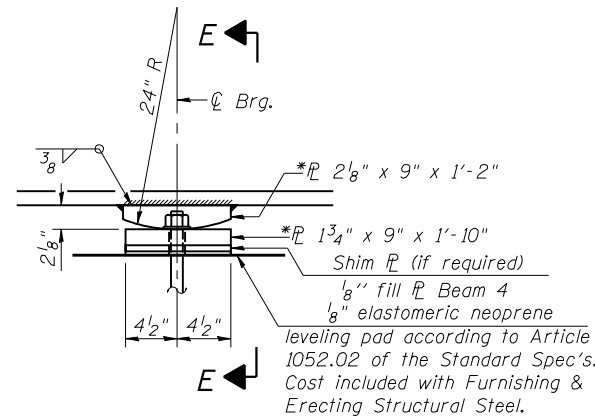
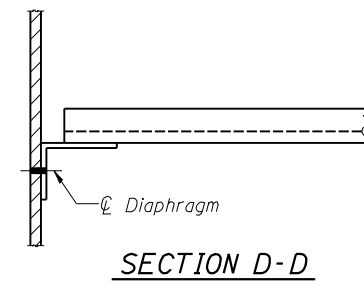
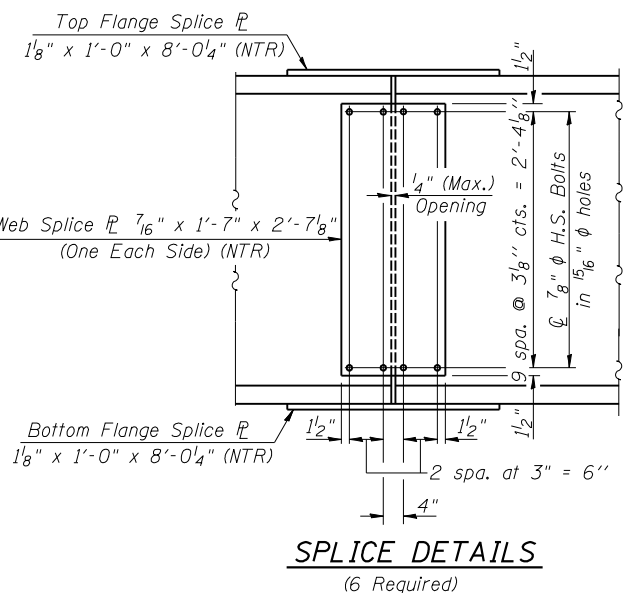
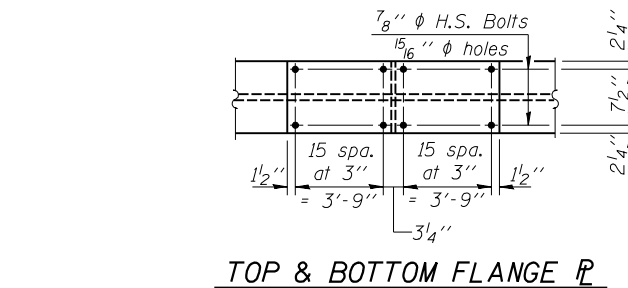
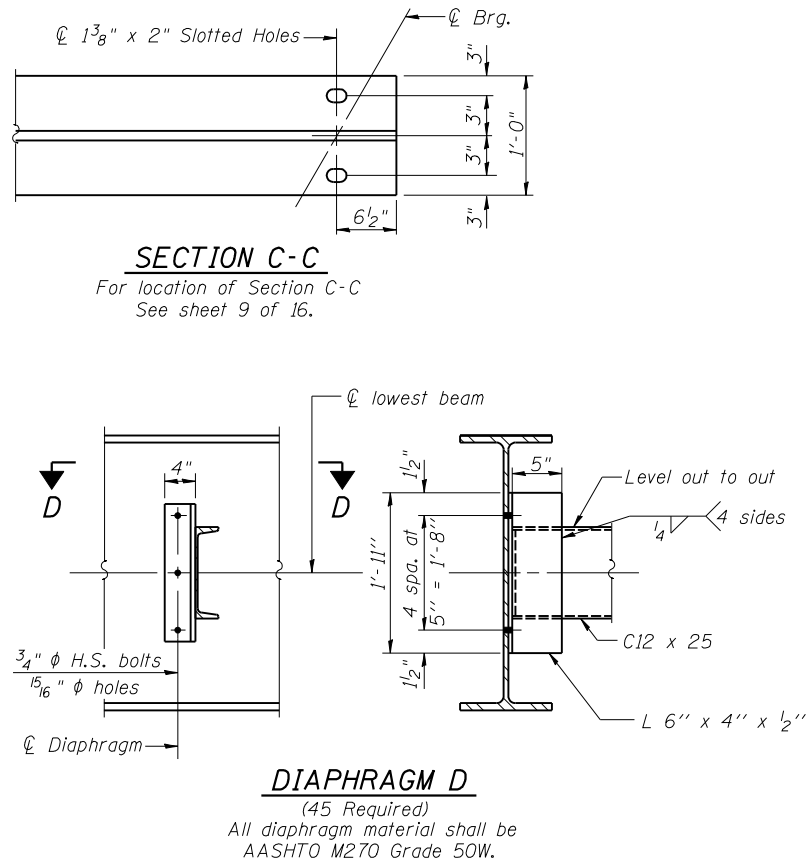
M_o (Strength I) = 1.25 M(DC1+DC2) + 1.5M (DW) + 1.75 M(L+Imp).

ϕfM_n is the full plastic moment capacity computed in accordance with appendix D6.1 and 6.10.7.

f_s (Service II) is the sum of the stresses due to DC1+DC2+DW+1.3(L+Imp).

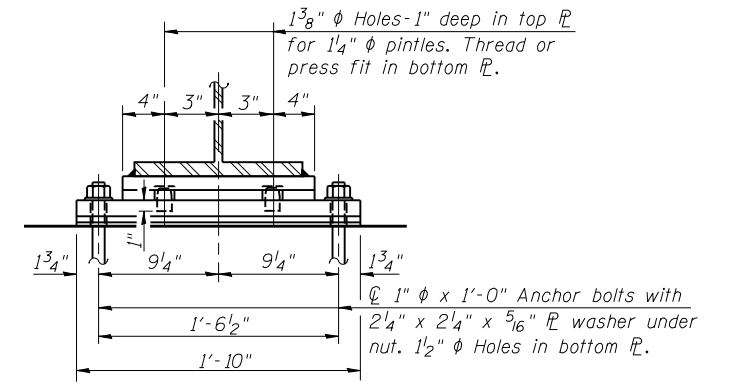
f_s (Total) (Strength I) (Non-compact section) is the sum of the stresses due to 1.25(DC1+DC2)+1.5DW+1.75(L+Imp).

Vsr is the maximum shear range in the span 0.75 (L+Imp).

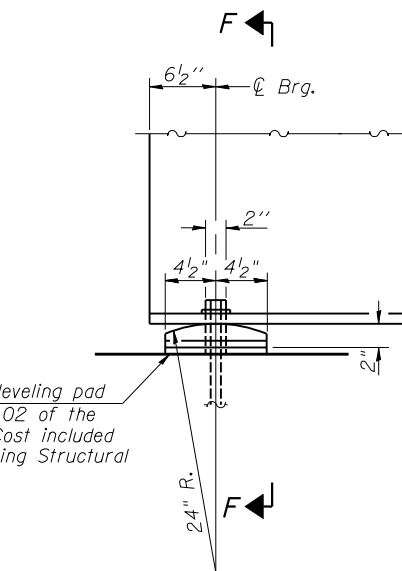


ELEVATION AT PIER

PIER BEARING
(6 Required)

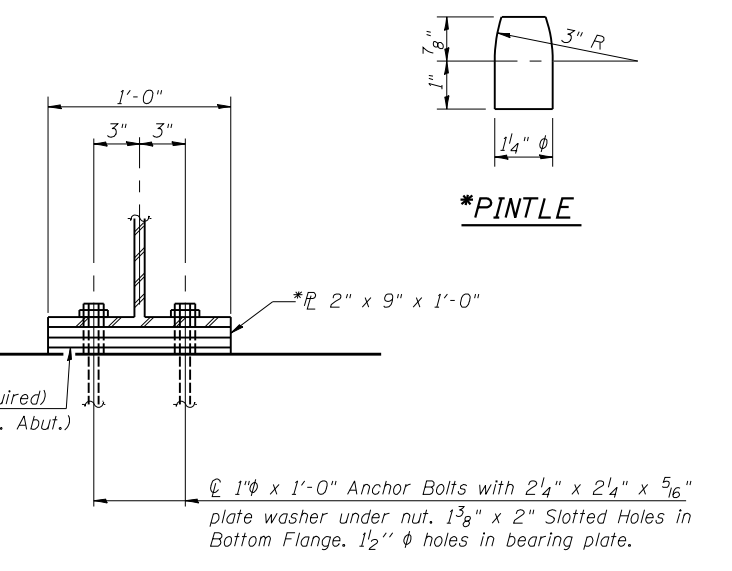


SECTION E-E

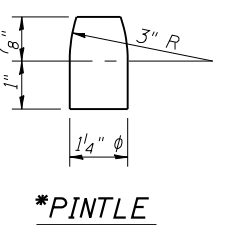


ELEVATION AT ABUTMENTS

ABUTMENT BEARING
(12 Req'd.)



SECTION F-F



*PINTLE

Notes: All splice plates shall be AASHTO M 270 Grade 50W.
"NTR" denotes members to which Notch Toughness Requirements are applicable.
Anchor Bolts at all bearings may be built into the concrete. See sheet 11 of 16 for Anchor Bolt Details.
Two hardened washers shall be required for all 15/16'' holes in diaphragms.
*AASHTO M270 Grade 50W.

DESIGNED	Stephen M. Ryan
CHECKED	Angela J. Bryant
DRAWN	R. Sommer
CHECKED	S.M.R./F.T.

EXAMINED	September 29, 2006
PASSED	Thomas J. Domagalaki ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL &
BEARING DETAILS
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11
F.A.P. 717	(111B)BR	DEWITT	53	31	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70387

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire. The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted. Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming. The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/16"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

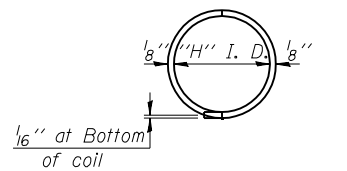
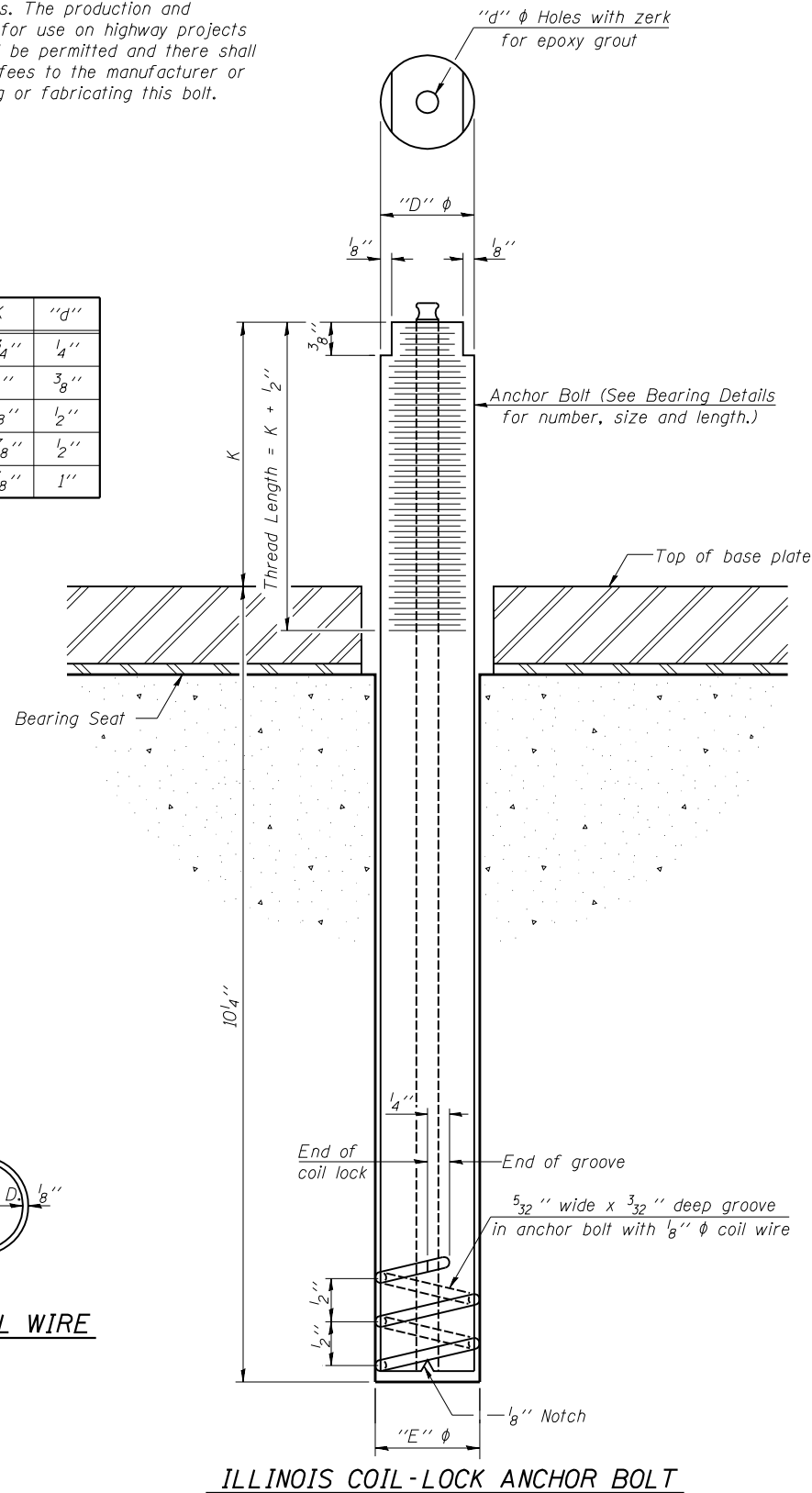
ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

- The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
 2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Abuts.	A307
Pier	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.



PLAN-COIL WIRE

ILLINOIS COIL-LOCK ANCHOR BOLT

DESIGNED Stephen M. Ryan
CHECKED Angela J. Bryant
DRAWN R. Sommer
CHECKED S.M.R./F.T.

September 29, 2006
EXAMINED Thomas J. Domagalaki
PASSED Ralph E. Anderson

ABB-1 10-22-04

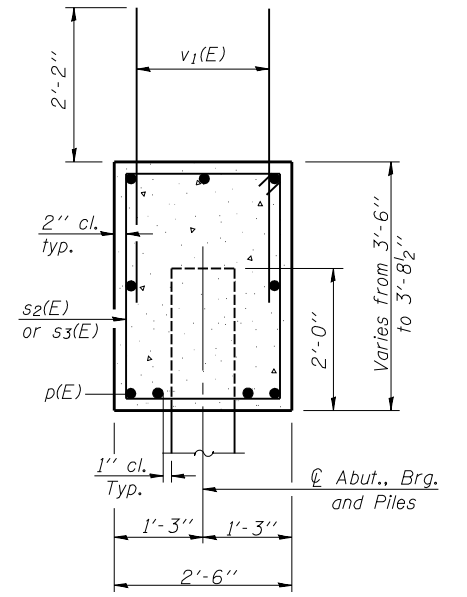
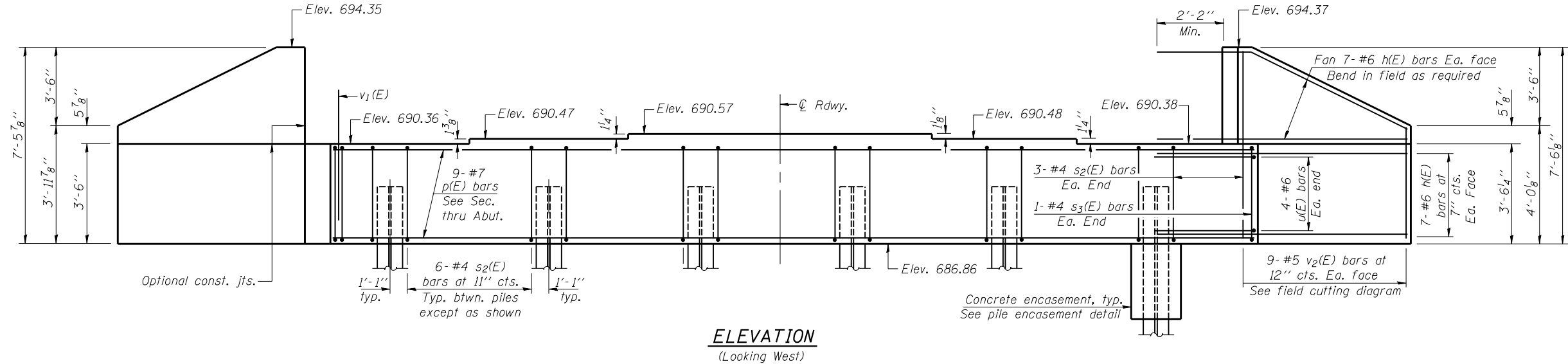
ANCHOR BOLT DETAILS
FOR BEARINGS
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

Notes: . Pour steps monolithically with cap.
 . Reinforcement bars designated (E) shall be epoxy coated.
 Space reinforcement bars in cap to miss anchor bolts.
 For anchor bolt installation, see sheet 11 of 16.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

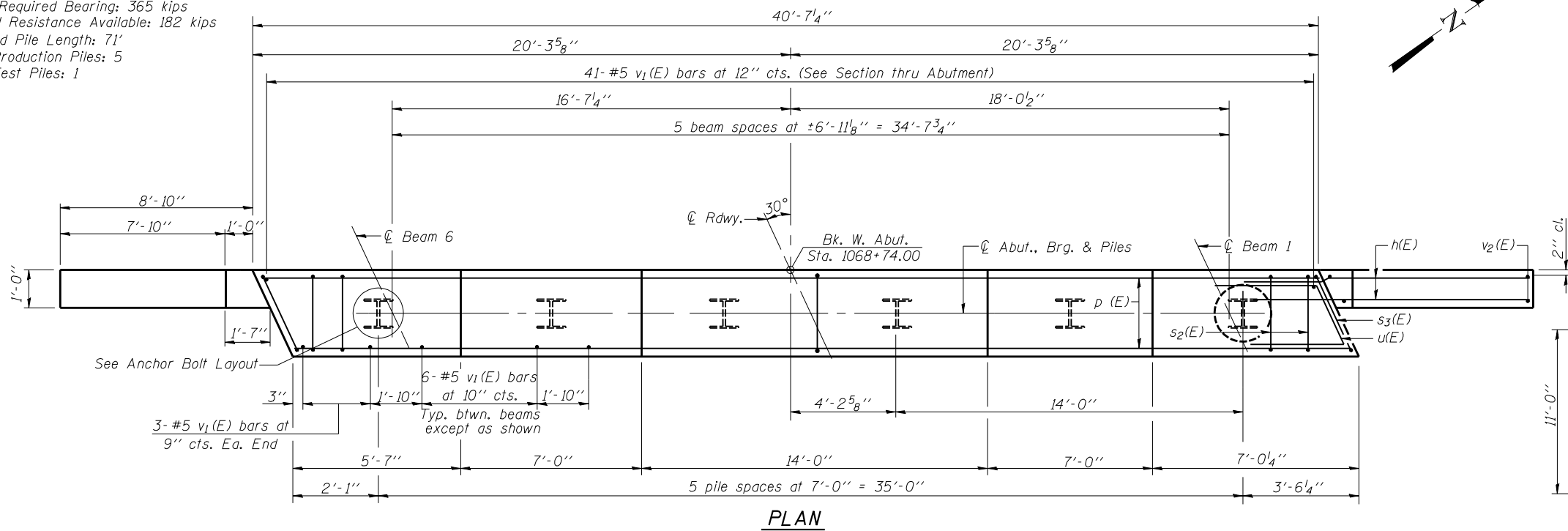
ROUTE NO. F.A.P. 717	SECTION (111B)BR	COUNTY DEWITT	TOTAL SHEETS 53	SHEET NO. 32	SHEET NO. 12 16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70387

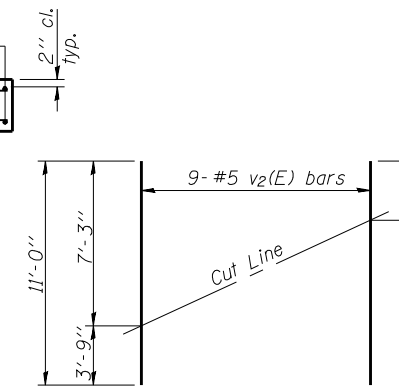


PILE DATA

Pile type: Steel HP12x53
 Nominal Required Bearing: 365 kips
 Factored Resistance Available: 182 kips
 Estimated Pile Length: 71'
 No. of Production Piles: 5
 No. of Test Piles: 1



BARS s2(E) & s3(E)

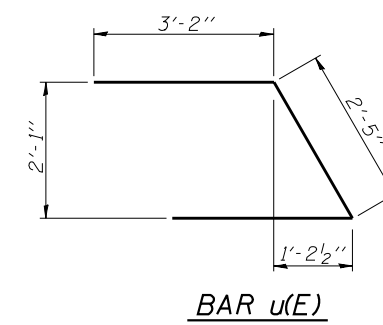
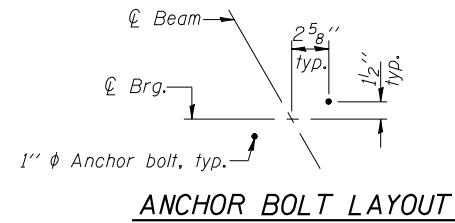
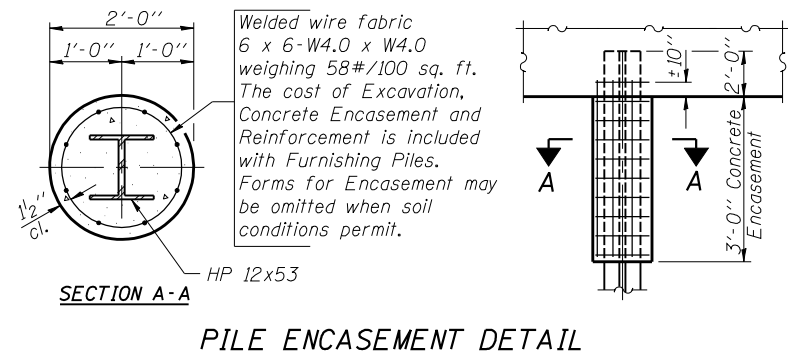


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#6	11'-8"	—
p(E)	9	#7	40'-4"	—
s2(E)	36	#4	11'-5"	□
s3(E)	2	#4	12'-1"	□
u(E)	8	#6	8'-9"	∩
v1(E)	77	#5	4'-4"	—
v2(E)	18	#5	11'-0"	—
Concrete Structures	Cu. Yd.	17.4		
Reinforcement Bars, Epoxy Coated	Pound	2670		
Structure Excavation	Cu. Yd.	173.0		
Driving Piles	Foot	355		
Test Pile Steel HP12x53	Each	1		
Furnishing Steel Piles HP12x53	Foot	355		

DESIGNED Stephen M. Ryan
 CHECKED Angela J. Bryant
 DRAWN R. Sommer
 CHECKED S.M.R./F.T.

September 29, 2006
 EXAMINED Thomas J. Domagala
 PASSED Ralph E. Anderson



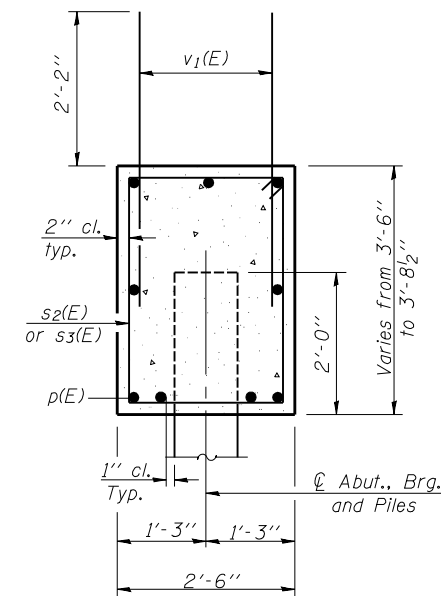
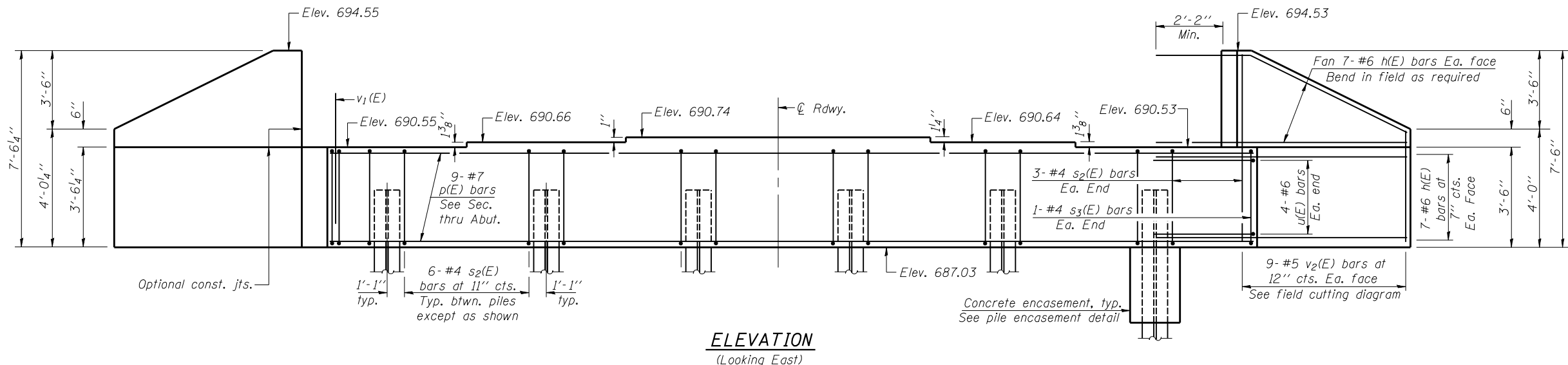
WEST ABUTMENT
 F.A.P. RT. 717 SEC. (111B)BR
 DEWITT COUNTY
 STATION 1069+54.00
 STRUCTURE NO. 020-0063

Notes: . Pour steps monolithically with cap.
 . Reinforcement bars designated (E) shall be epoxy coated.
 Space reinforcement bars in cap to miss anchor bolts.
 For anchor bolt installation, See sheet 11 of 16.

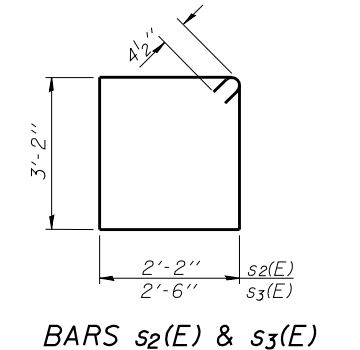
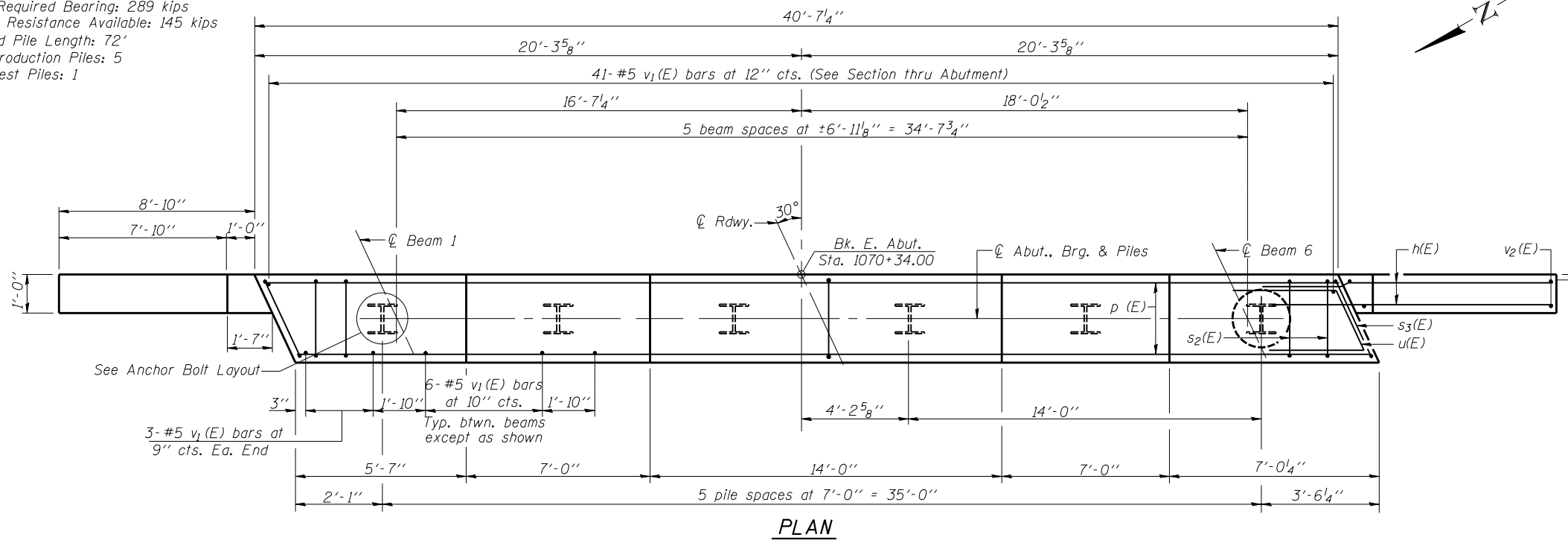
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13
F.A.P. 717	(111B)BR	DEWITT	53	33	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #70387

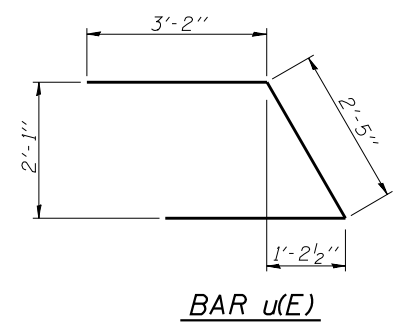
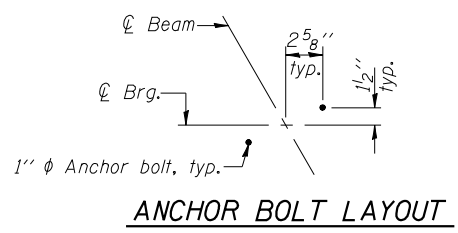
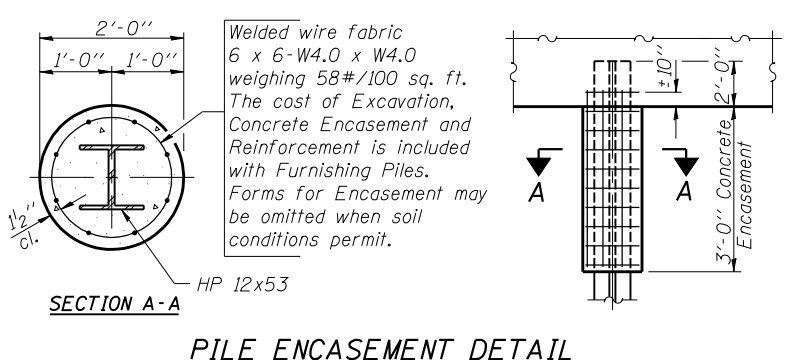
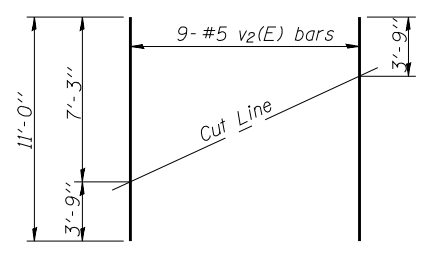


PILE DATA
 Pile type: Steel HP12x53
 Nominal Required Bearing: 289 kips
 Factored Resistance Available: 145 kips
 Estimated Pile Length: 72'
 No. of Production Piles: 5
 No. of Test Piles: 1



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#6	11'-8"	—
p(E)	9	#7	40'-4"	—
s ₂ (E)	36	#4	11'-5"	□
s ₃ (E)	2	#4	12'-1"	□
u(E)	8	#6	8'-9"	┘
v ₁ (E)	77	#5	4'-4"	—
v ₂ (E)	18	#5	11'-0"	—
Concrete Structures	Cu. Yd.		17.4	
Reinforcement Bars, Epoxy Coated	Pound		2670	
Structure Excavation	Cu. Yd.		176.4	
Driving Piles	Foot		360	
Test Pile Steel HP12x53	Each		1	
Furnishing Steel Piles HP12x53	Foot		360	



DESIGNED Stephen M. Ryan
 CHECKED Angela J. Bryant
 DRAWN R. Sommer
 CHECKED S.M.R./F.T.

September 29, 2006
 EXAMINED Thomas J. Domagala
 PASSED Ralph E. Anderson

EAST ABUTMENT
 F.A.P. RT. 717 SEC. (111B)BR
 DEWITT COUNTY
 STATION 1069+54.00
 STRUCTURE NO. 020-0063

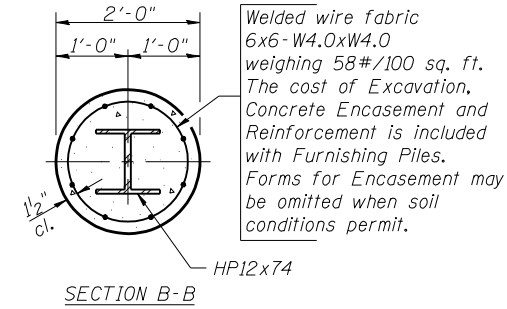
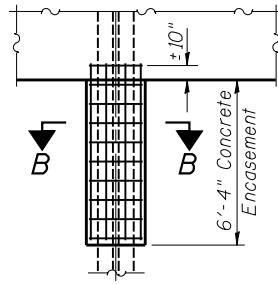
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 14 16 SHEETS
F.A.P. 717	(111B)BR	DEWITT	53	34	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

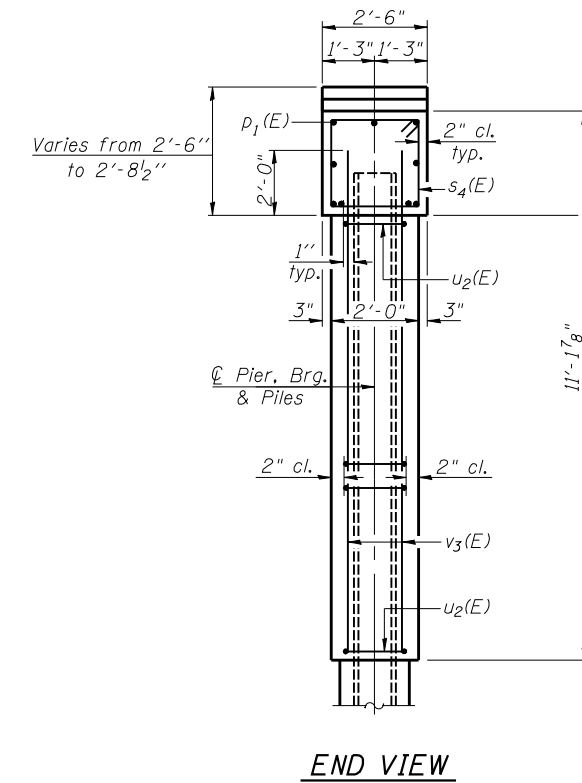
Contract #70387

PILE DATA

Pile Type: Steel HP12x74
Nominal Req'd. Bearing: 552 kips
Factored Resistance Available: 276 kips
Estimated Pile Length: 92'
No. of Production Piles: 6
No. of Test Piles: 1



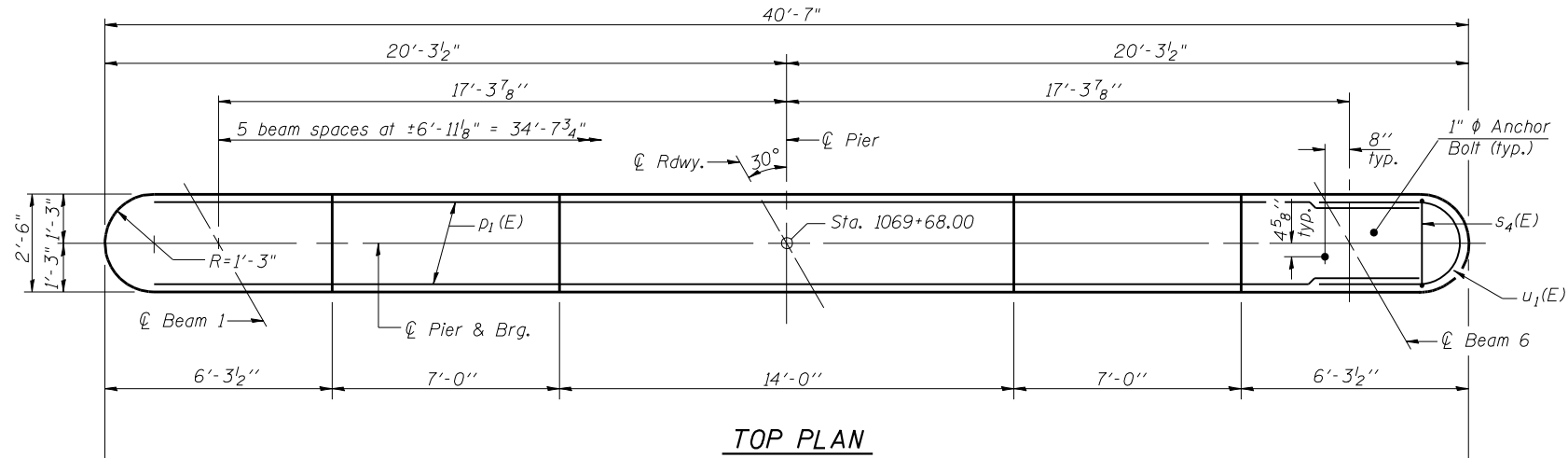
PILE ENCASEMENT DETAILS



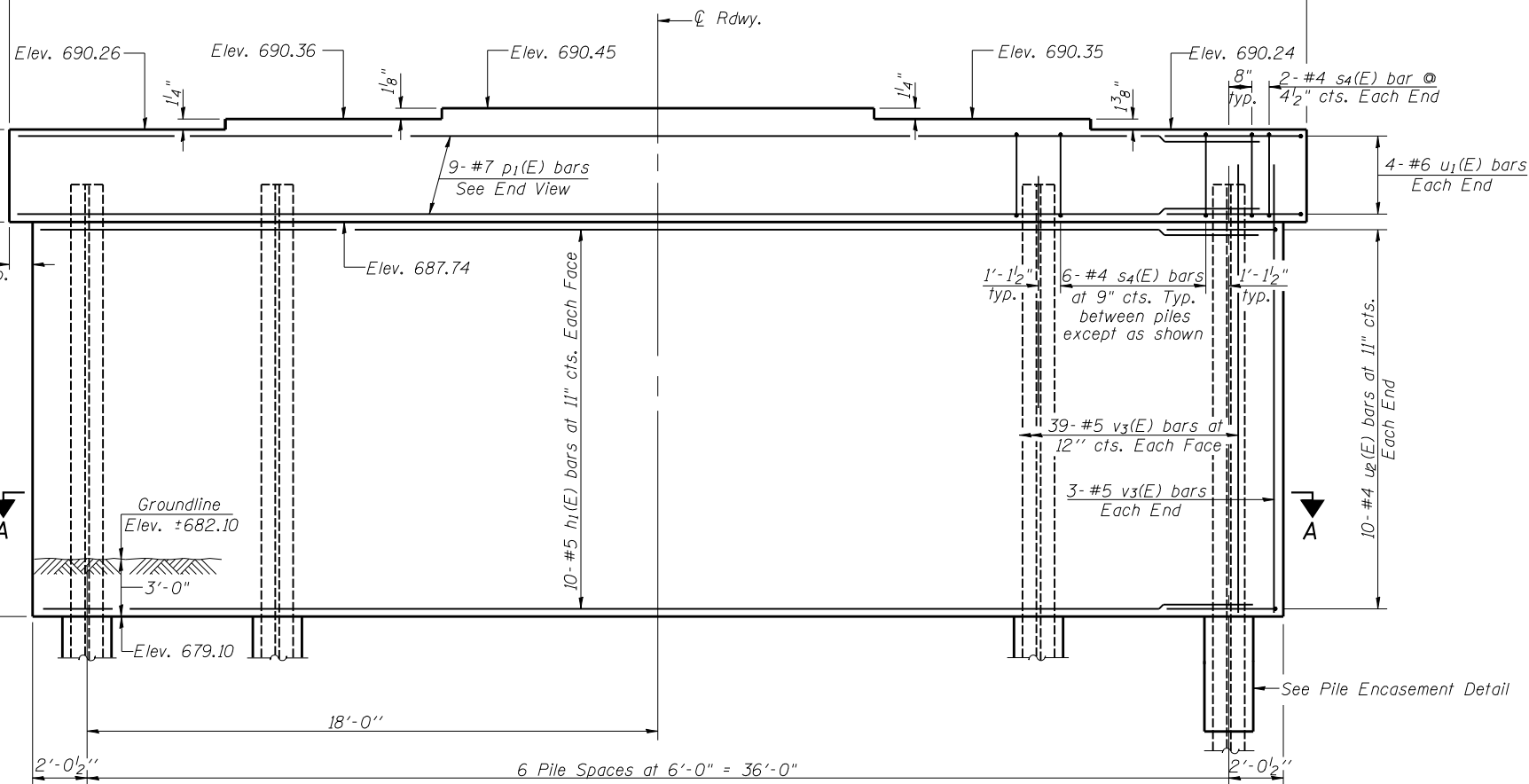
Notes:
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
For anchor bolt installation details see sheet 11 of 16.
Space reinforcement in pier cap to miss anchor bolts.

DESIGNED Stephen M. Ryan
CHECKED Angela J. Bryant
DRAWN R. Sommer
CHECKED S.M.R./F.T.

September 29, 2006
EXAMINED Thomas J. Domagalaki
PASSED Ralph E. Anderson

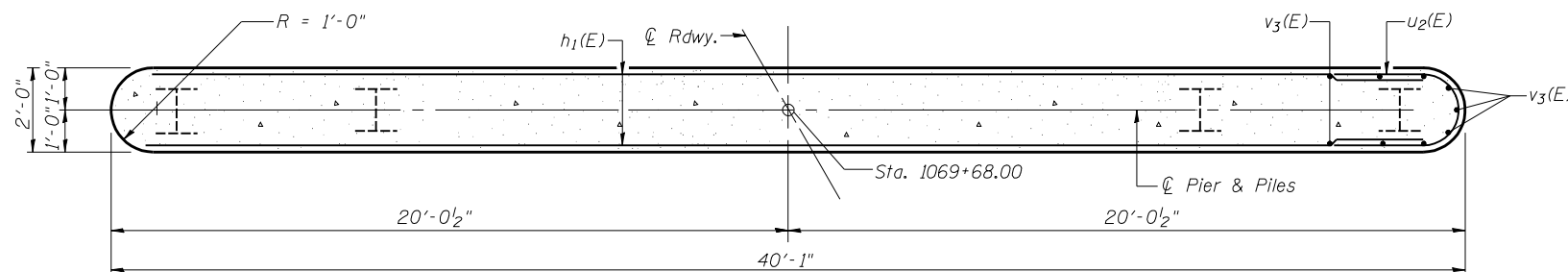


TOP PLAN

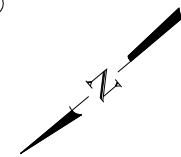


ELEVATION

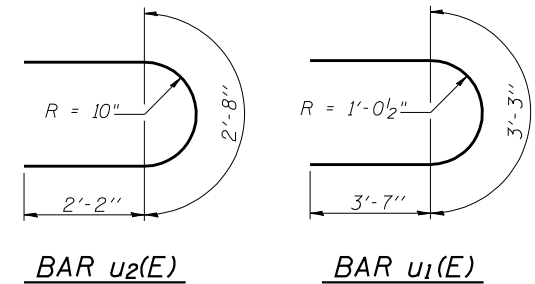
(Looking East)



SECTION A-A



BAR s4(E)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	20	#5	38'-1"	—
p1(E)	9	#7	38'-1"	—
s4(E)	40	#4	9'-5"	□
u1(E)	8	#6	10'-5"	U
u2(E)	20	#4	7'-0"	U
v3(E)	84	#5	10'-6"	—
Concrete Structures			Cu. Yd.	35.7
Reinforcement Bars, Epoxy Coated			Pound	2890
Furnishing Steel Piles HP12x74			Foot	552
Structure Excavation			Cu. Yd.	32.2
Test Pile Steel HP 12x74			Each	1
Driving Piles			Foot	552
Underwater Structure Excavation Protection - Location 1			Each	1

PIER
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15
F.A.P. 717	(111B)BR	DEWITT	53	35	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70387

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

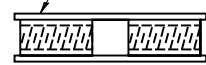
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



****ONE PIECE**

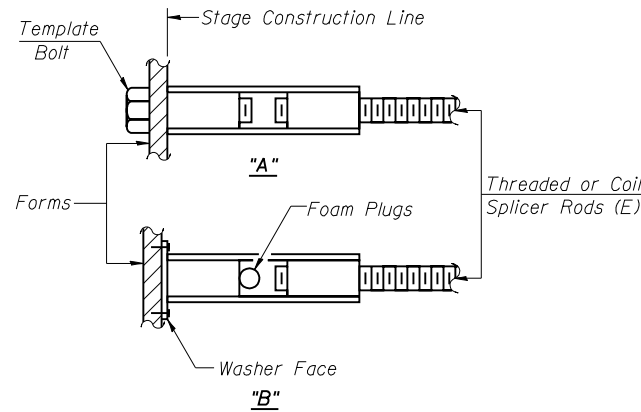
Wire Connector



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.

NOTES

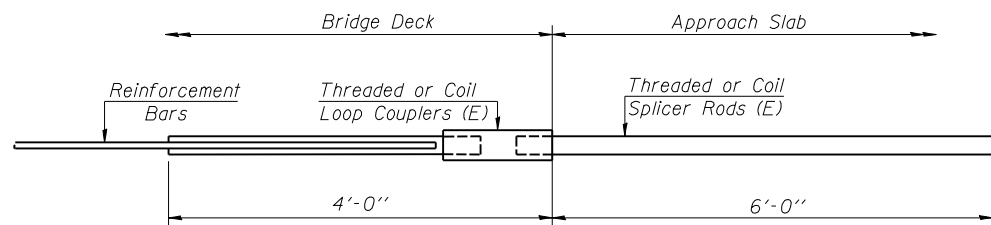
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the 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:

- Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_t$

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_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

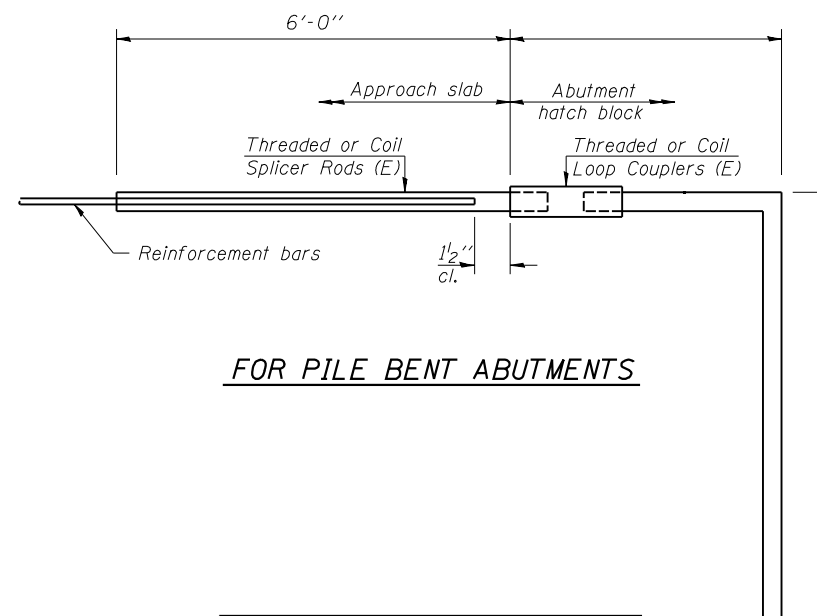
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

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."



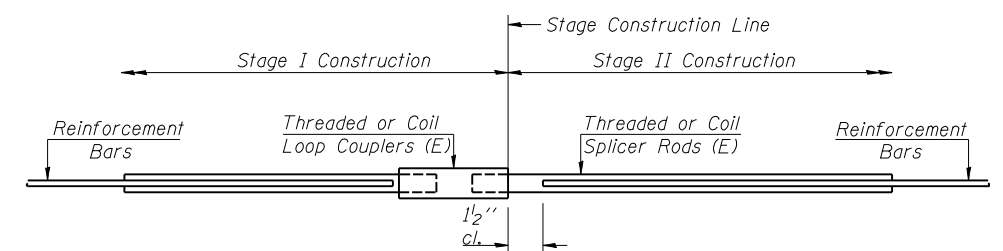
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 64



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 =



STANDARD

Bar Size	No. Assemblies Required	Location

DESIGNED Stephen M. Ryan
 CHECKED Angela J. Bryant
 DRAWN R. Sommer
 CHECKED S.M.R./F.T.

September 29 2006
 EXAMINED Thomas J. Domagalaki
 PASSED Ralph E. Anderson

BSD-1 10-22-04

BAR SPLICER ASSEMBLY DETAILS
 F.A.P. RT. 717 SEC. (111B)BR
 DEWITT COUNTY
 STATION 1069+54.00
 STRUCTURE NO. 020-0063

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 16 16 SHEETS
F.A.P. 717	(111B)BR	DEWITT	53	36	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #70387

Illinois Department of Transportation
Division of Highways
Region 3 / District 5

SOIL BORING LOG

Page 1 of 2
Date 8/305

ROUTE FAP 717 (IL 10) DESCRIPTION Ten Mile Creek 0.4 Miles West of Clinton LOGGED BY CNA

SECTION (111B)BR LOCATION NW, SEC. 33, TWP. 20N, RNG. 2E, 3rd PM

COUNTY Dewitt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 020-0007
Station 1069+98

BORING NO. 1 West Abut.
Station 1068+78
Offset 12.3 ft RL
Ground Surface Elev. 694.4 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	BLOWS	REMARKS
0	Pavement			
694.4				
691.9	Brown Mottled Silty Clay Loam (Embankment)		2	
685.4	Brown Mottled Silty Clay Loam to Sandy Clay Loam		3	1.0 B
683.4	Black Silt Loam		2	
681.4	Gray/Green Dirty Sand to Sand Loam		1	19
678.4	Gray Dirty Loose Very Coarse Sand with Angular Gravel		2	
676.4	Gray Sandy Clay Loam Till		5	3.7 B
672.4	Gray Sandy Clay Loam Till (continued)			
672.4	Gray Clay Loam Till			
661.4	(No Sample Obtained - Drilled Like Till)			
647.9	Gray Well Sorted Coarse Sand to Dirty Coarse Sand			
644.4	Gray/Brown to Gray Sandy Clay Loam Till			

Surface Water Elev. 678.4 ft
Stream Bed Elev. 677.8 ft
Groundwater Elev.:
First Encounter 680.4 ft
Upon Completion Wash Bored ft
After Hrs.

DEPTWHS Qu T
D E L O S
P T W H S Qu T
B U M O
L O C I
C S I S
S T S T

(ft) (ft) (bls) (%) (ft) (ft) (bls) (%)

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Region 3 / District 5

SOIL BORING LOG

Page 2 of 2
Date 8/305

ROUTE FAP 717 (IL 10) DESCRIPTION Ten Mile Creek 0.4 Miles West of Clinton LOGGED BY CNA

SECTION (111B)BR LOCATION NW, SEC. 33, TWP. 20N, RNG. 2E, 3rd PM

COUNTY Dewitt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 020-0007
Station 1069+98

BORING NO. 1 West Abut.
Station 1068+78
Offset 12.3 ft RL
Ground Surface Elev. 694.4 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	BLOWS	REMARKS
634.4	Green/Gray Sandy Clay Loam Till (continued)			
622.2	(Drilled Firmer)			
621.4	Green/Gray to Gray Sandy Clay Loam Till		12	5.9 S
617.9	Gray Well Sorted Coarse Sand to Dirty Coarse Sand			
614.4	Gray/Brown to Gray Sandy Clay Loam Till			
611.7	Dark Gray Silt Loam (Slightly Organic)		1	19
607.7	Dark Brown Organic Silt to Silty Clay with Peat Seams		1	1.0 B
607.7	Green/Blue/Gray Clay Loam Till			
603.7	Gray Poorly Sorted Very Coarse Sand with Angular Gravel		5	3.7 B
601.7	Gray Poorly Sorted Very Coarse Sand with Angular Gravel		2	

Surface Water Elev. 678.4 ft
Stream Bed Elev. 677.8 ft
Groundwater Elev.:
First Encounter 680.4 ft
Upon Completion Wash Bored ft
After Hrs.

DEPTWHS Qu T
D E L O S
P T W H S Qu T
B U M O
L O C I
C S I S
S T S T

(ft) (ft) (bls) (%) (ft) (ft) (bls) (%)

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Region 3 / District 5

SOIL BORING LOG

Page 1 of 2
Date 8/305

ROUTE FAP 717 (IL 10) DESCRIPTION Ten Mile Creek 0.4 Miles West of Clinton LOGGED BY CNA

SECTION (111B)BR LOCATION NW, SEC. 33, TWP. 20N, RNG. 2E, 3rd PM

COUNTY Dewitt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 020-0007
Station 1069+98

BORING NO. 2 East Abut.
Station 1070+32.2
Offset 12.4 ft RL
Ground Surface Elev. 694.7 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	BLOWS	REMARKS
694.7	Pavement			
692.2	Brown/Gray Mottled Silty Clay Loam (Embankment)		2	1.8 B
685.7	Brown Clay Loam Till		1	1.9 B
683.7	Gray Loam		1	
681.7	Dark Gray Slightly Organic Silt Loam to Sand Loam		1	1.1 B
678.7	Gray Poorly Sorted Very Coarse Sand with Angular Gravel		5	3.7 B
678.7	Green/Blue/Gray Clay Loam Till			

Surface Water Elev. 678.4 ft
Stream Bed Elev. 677.8 ft
Groundwater Elev.:
First Encounter 678.7 ft
Upon Completion Wash Bored ft
After Hrs.

DEPTWHS Qu T
D E L O S
P T W H S Qu T
B U M O
L O C I
C S I S
S T S T

(ft) (ft) (bls) (%) (ft) (ft) (bls) (%)

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Region 3 / District 5

SOIL BORING LOG

Page 2 of 2
Date 8/305

ROUTE FAP 717 (IL 10) DESCRIPTION Ten Mile Creek 0.4 Miles West of Clinton LOGGED BY CNA

SECTION (111B)BR LOCATION NW, SEC. 33, TWP. 20N, RNG. 2E, 3rd PM

COUNTY Dewitt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 020-0007
Station 1069+98

BORING NO. 2 East Abut.
Station 1070+32.2
Offset 12.4 ft RL
Ground Surface Elev. 694.7 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	BLOWS	REMARKS
652.7	Green/Blue/Gray Clay Loam Till (continued)			
648.7	Gray Sandy Clay Loam Till			
639.7	End of Boring			

Surface Water Elev. 678.4 ft
Stream Bed Elev. 677.8 ft
Groundwater Elev.:
First Encounter 678.7 ft
Upon Completion Wash Bored ft
After Hrs.

DEPTWHS Qu T
D E L O S
P T W H S Qu T
B U M O
L O C I
C S I S
S T S T

(ft) (ft) (bls) (%) (ft) (ft) (bls) (%)

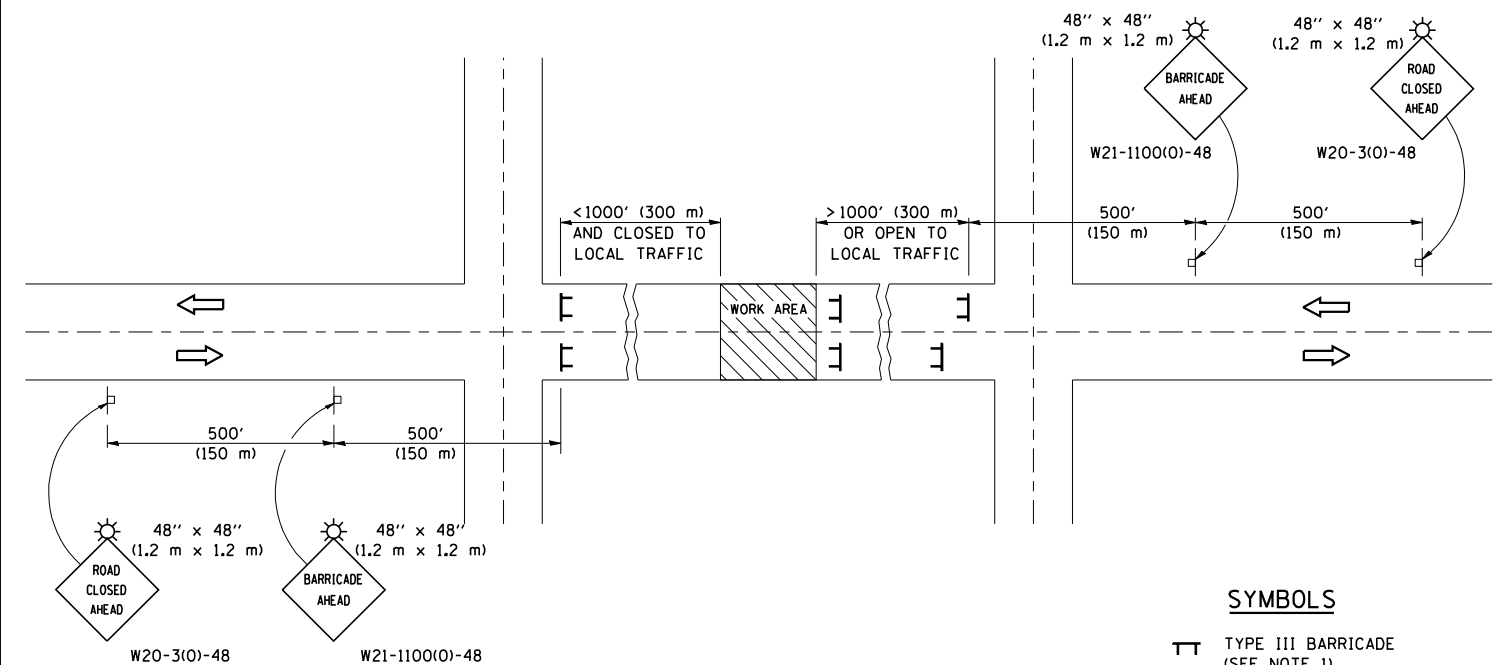
An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO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

BBS, from 137 (Rev. 8-99)

BORING DETAILS
F.A.P. RT. 717 SEC. (111B)BR
DEWITT COUNTY
STATION 1069+54.00
STRUCTURE NO. 020-0063

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	37
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR ROAD CLOSURE



SYMBOLS

- ⊥ TYPE III BARRICADE (SEE NOTE 1)
- ⊙ FLASHING AMBER LIGHT (TYPE A)

GENERAL NOTES

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

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 USER NAME = pierfsonbr

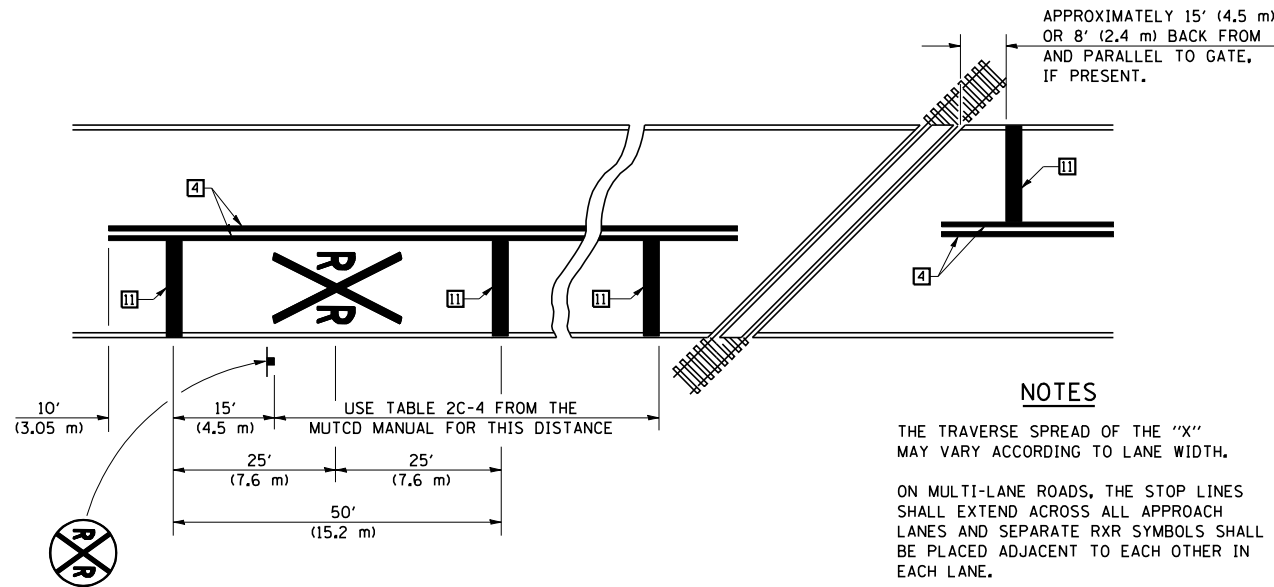
	NAME	DATE	REVISIONS	
DESIGNED	J.H.M.	8-11-87	NAME	DATE
CHECKED	P.E.K.	8-25-87	R.M.H.	12/97
CADD NO.	F-5.03		C.P./K.A.G.	01/05

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF TRAFFIC CONTROL DEVICES FOR ROAD CLOSURE
 F.A.P. 717 (IL ROUTE 10)
 SECTION (111B)BR
 DEWITT COUNTY
 SCALE: NOT TO SCALE
 DATE: 07/14/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	41
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS

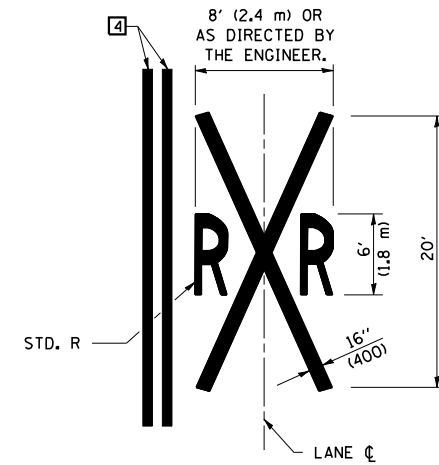


NOTES

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

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

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



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

PLOT DATE = 8/24/2006
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 USER NAME = pferisonbr

SHEET 4 OF 4

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF PAVEMENT MARKINGS AND MARKERS
 F.A.P. 717 (IL ROUTE 10)
 SECTION (111B)BR
 DEWITT COUNTY
 Sheet 4 of 4
 SCALE: NOT TO SCALE DATE: 07/14/06

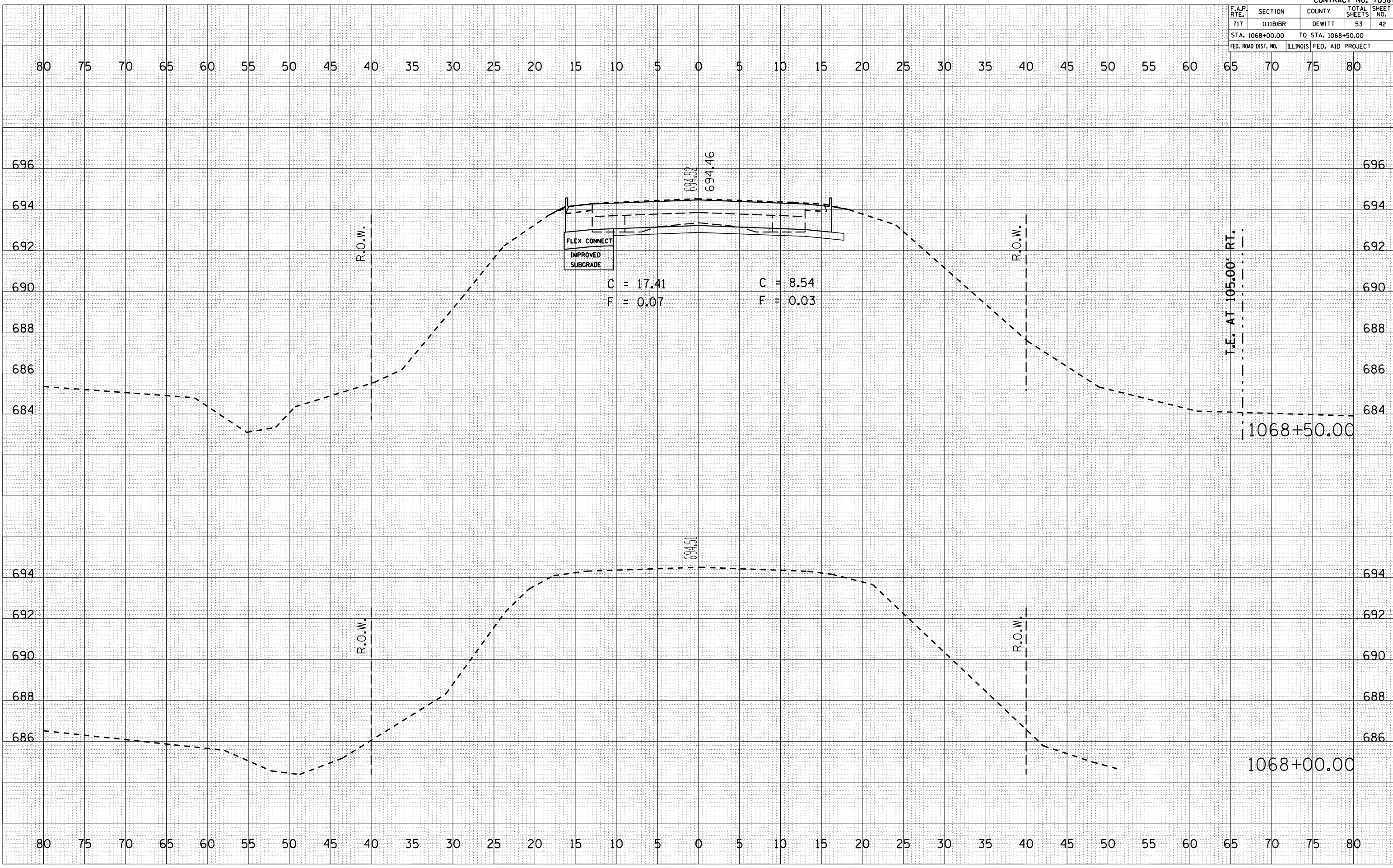
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	111B18R	DEWITT	53	42
STA. 1068+00.00		TO STA. 1068+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BY	DATE

NO.	DATE	BY	DESCRIPTION

NO.	DATE	BY	DESCRIPTION

PLOT DATE = 8/24/2006
 FILE NAME = 1015582
 PLOT SCALE = 1/8" = 100'
 USER NAME = pier-ar-br



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	111B1BR	DEWITT	53	43
STA. 1068+75.00		TO STA. 1068+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

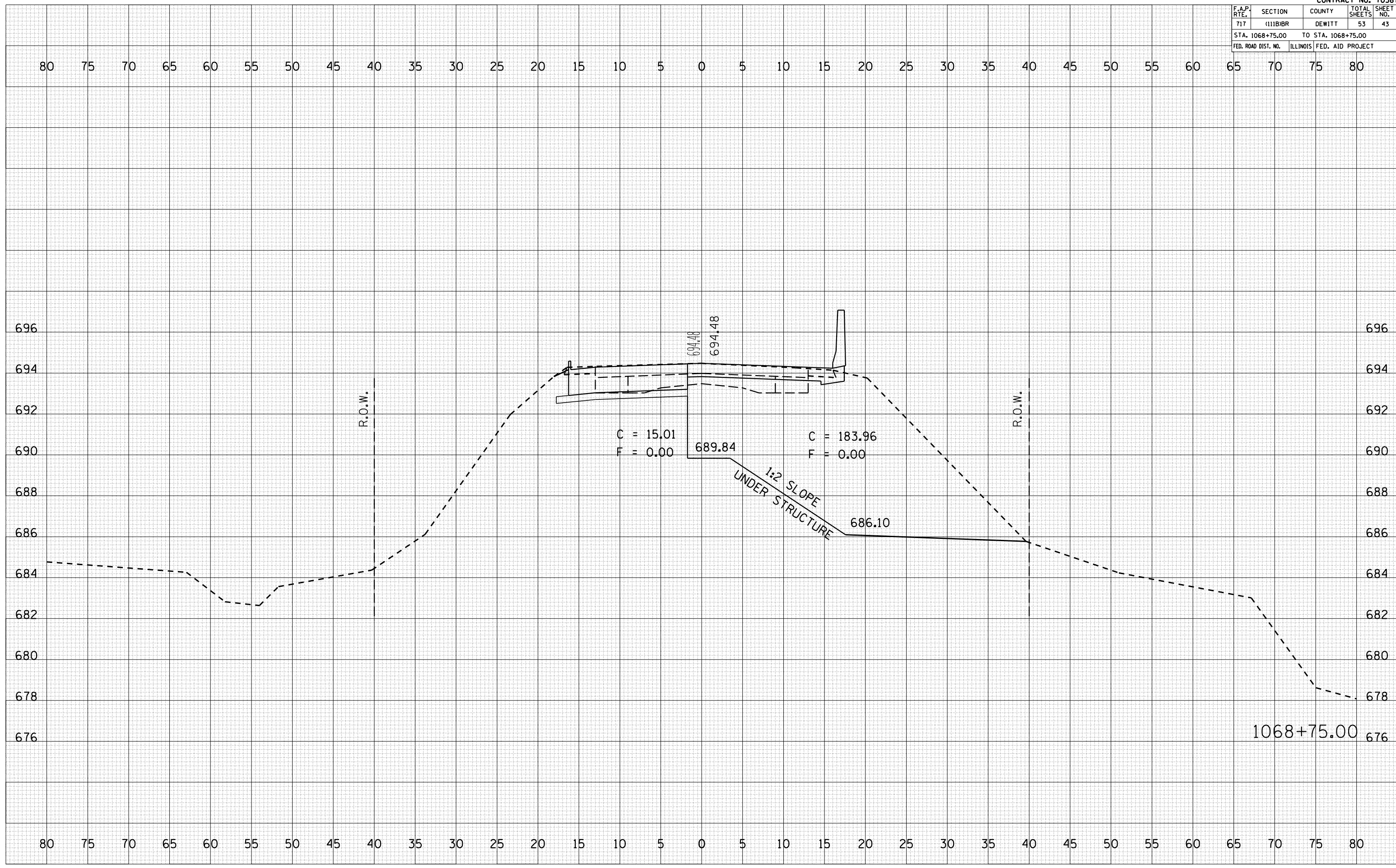
BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = 8/24/2006
 FILE NAME = 101118-111B1BR-1068+75.00
 PLOT SCALE = 1/8" = 10.0000'
 USER NAME = p1e-aor-br



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	111BIBR	DEWITT	53	44
STA. 1068+84.60		TO STA. 1068+84.60		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

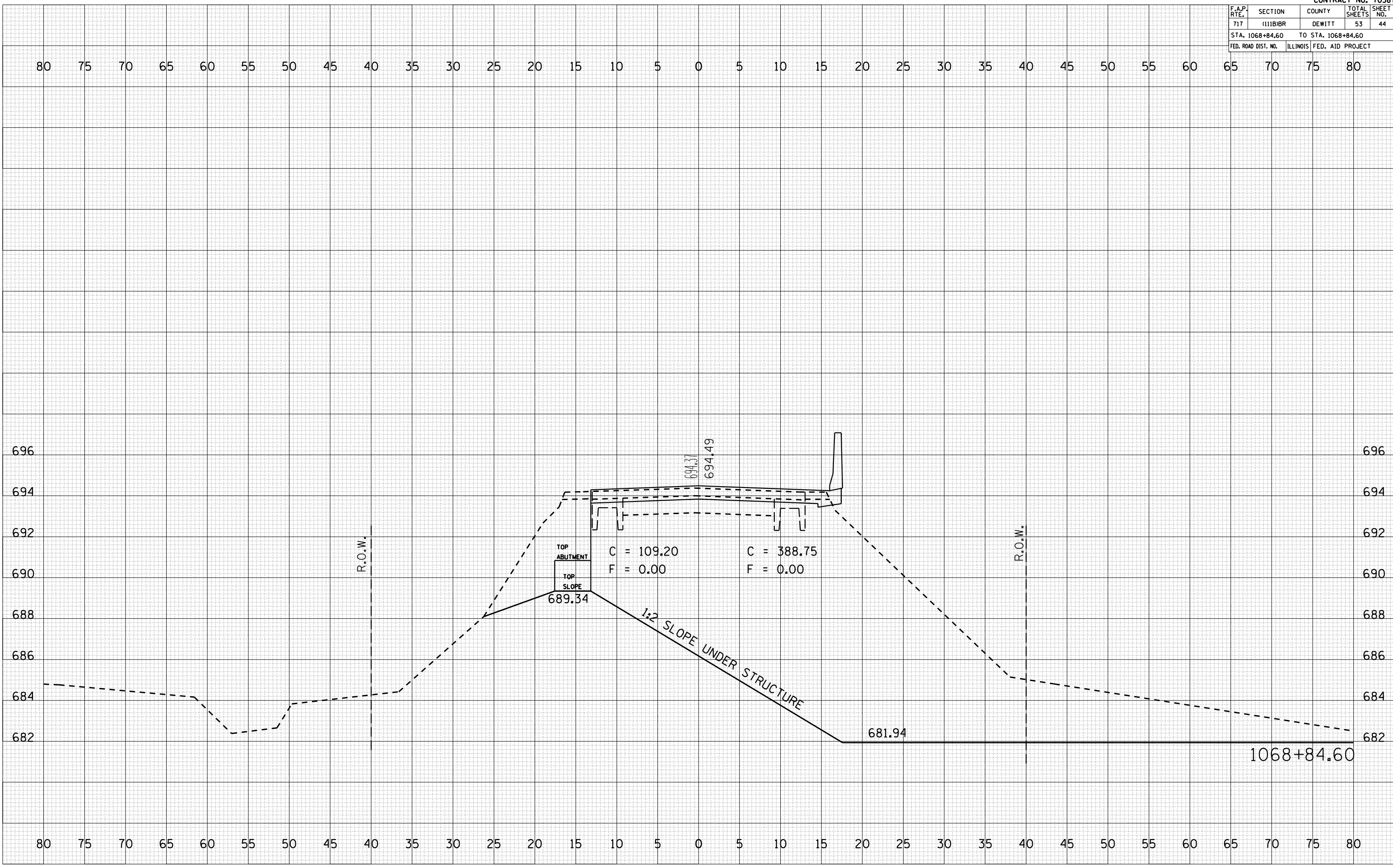
BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = 8/21/2006
 FILE NAME = I:\B111B-11-11\1068+84.60.dwg
 PLOT SCALE = 1/8" = 10.0000'
 USER NAME = p1e-aor-br



80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	46
STA. 1069+25.00		TO STA. 1069+25.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

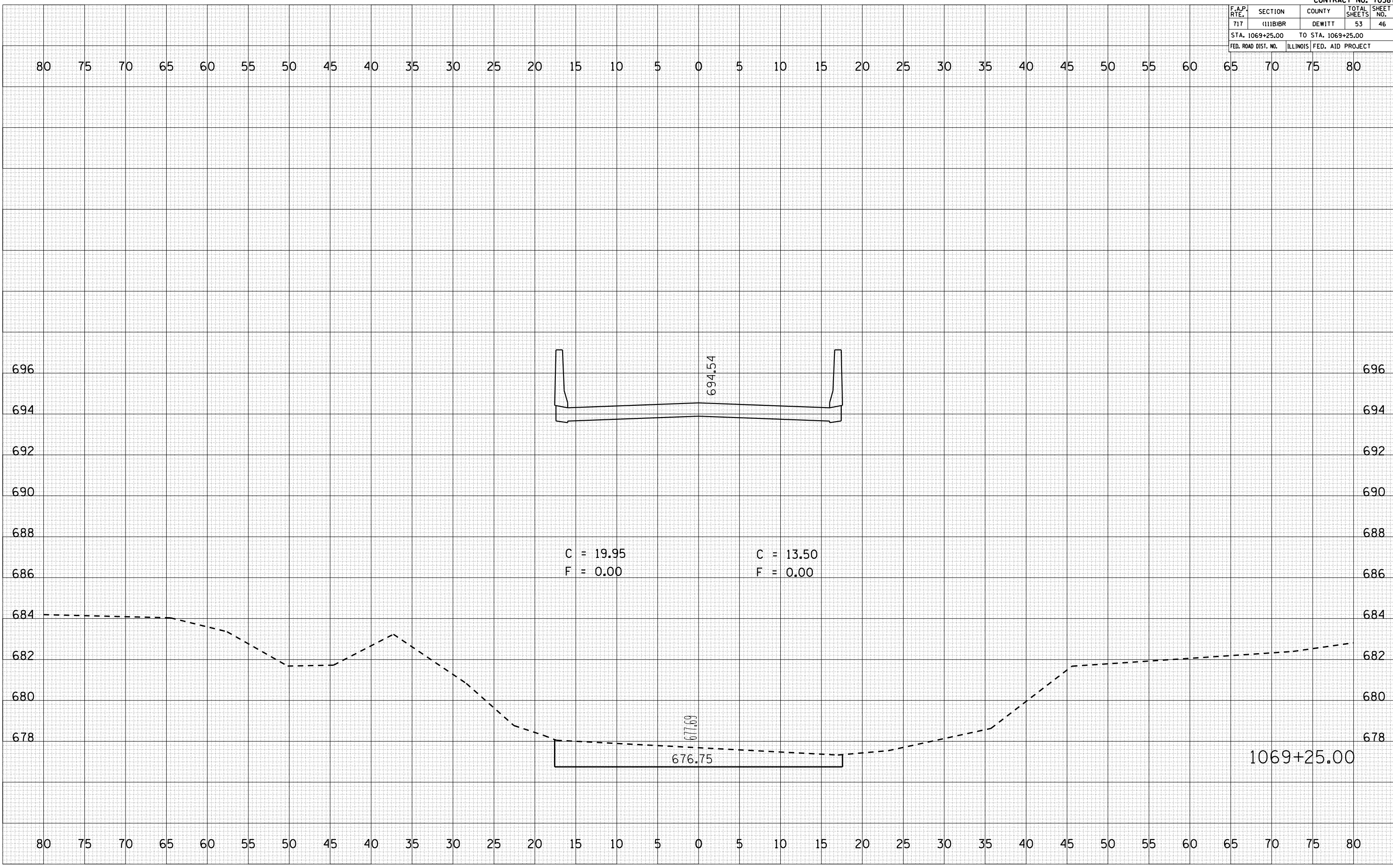
BY	DATE

FINAL SURVEY	SURVEYED
NOTE BOOK NO.	AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	AREAS CHECKED

PLOT DATE = 8/24/2006
 FILE NAME = 1015582
 PLOT SCALE = 1" = 10.000'
 USER NAME = pier-ar-br



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	47
STA. 1069+50.00		TO STA. 1069+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

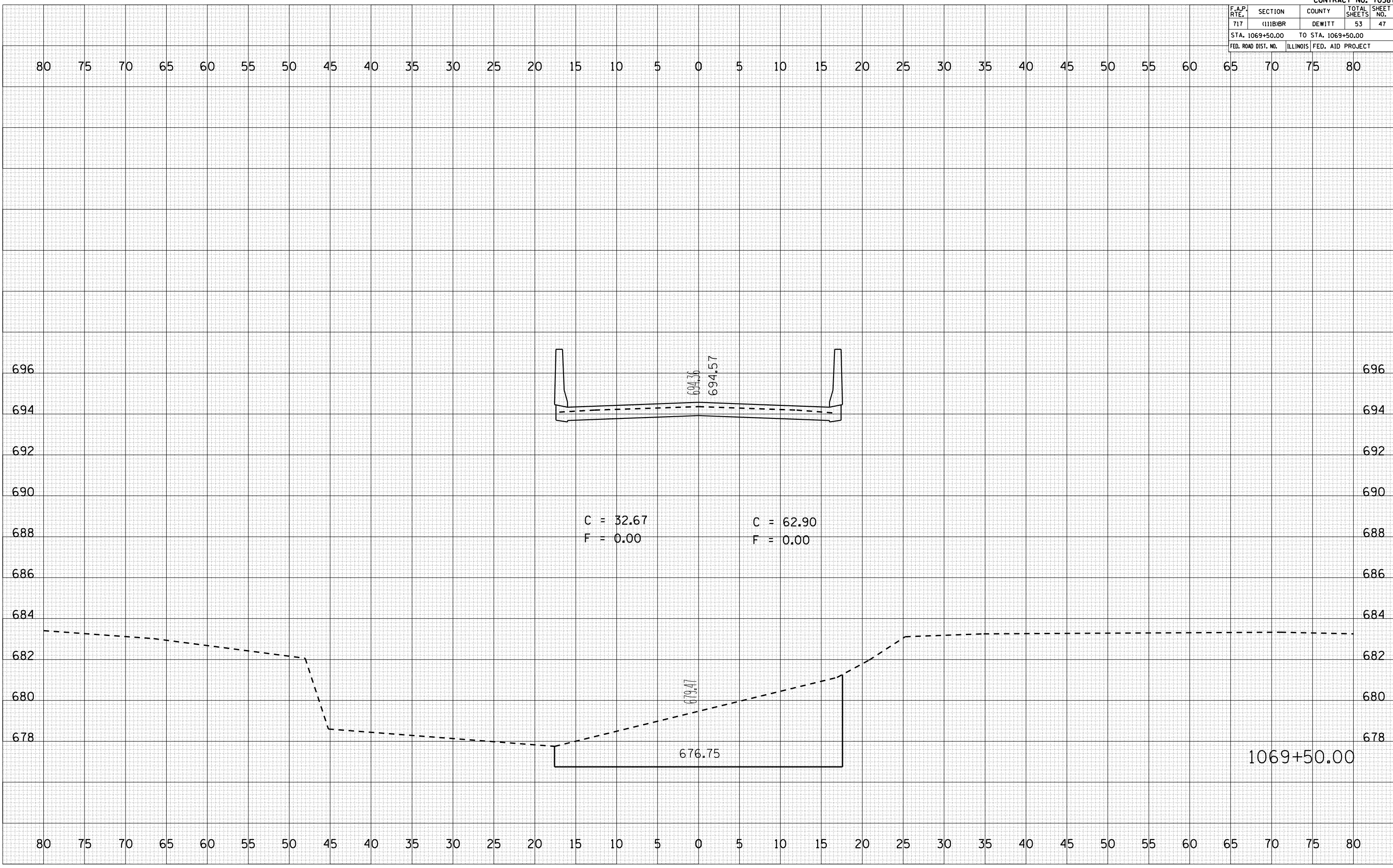
BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = 8/21/2006
 FILE NAME = 1015582
 PLOT SCALE = 1/8" = 10.000'
 USER NAME = p1e-aor-br



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	48
STA. 1069+75.00		TO STA. 1069+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

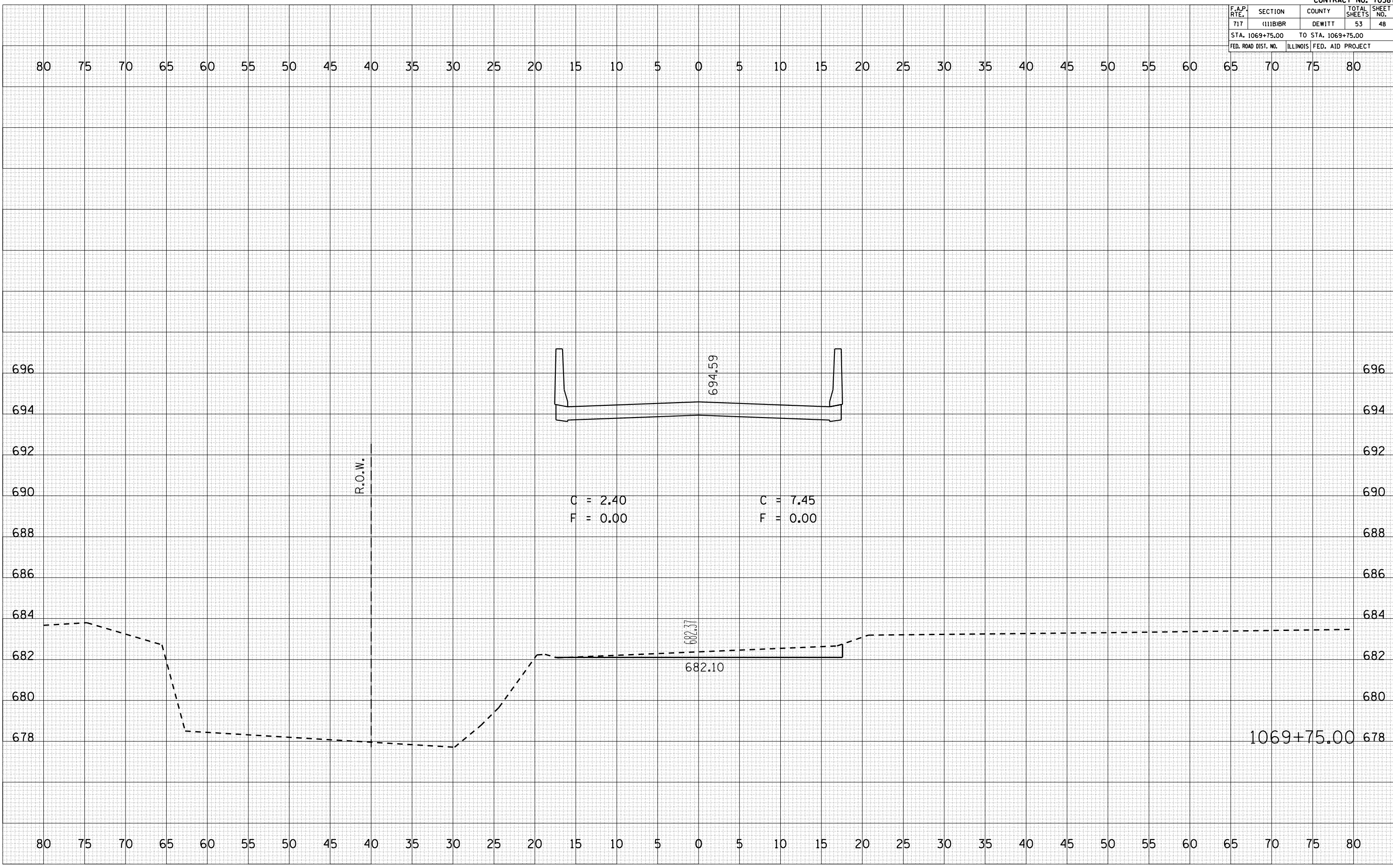
NO.	AREAS CHECKED

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = 8/21/2006
 FILE NAME = 1015582
 PLOT SCALE = 1/8" = 10.000'
 USER NAME = pier-ar-br



1069+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	111B1BR	DEWITT	53	49
STA. 1070+00.00		TO STA. 1070+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

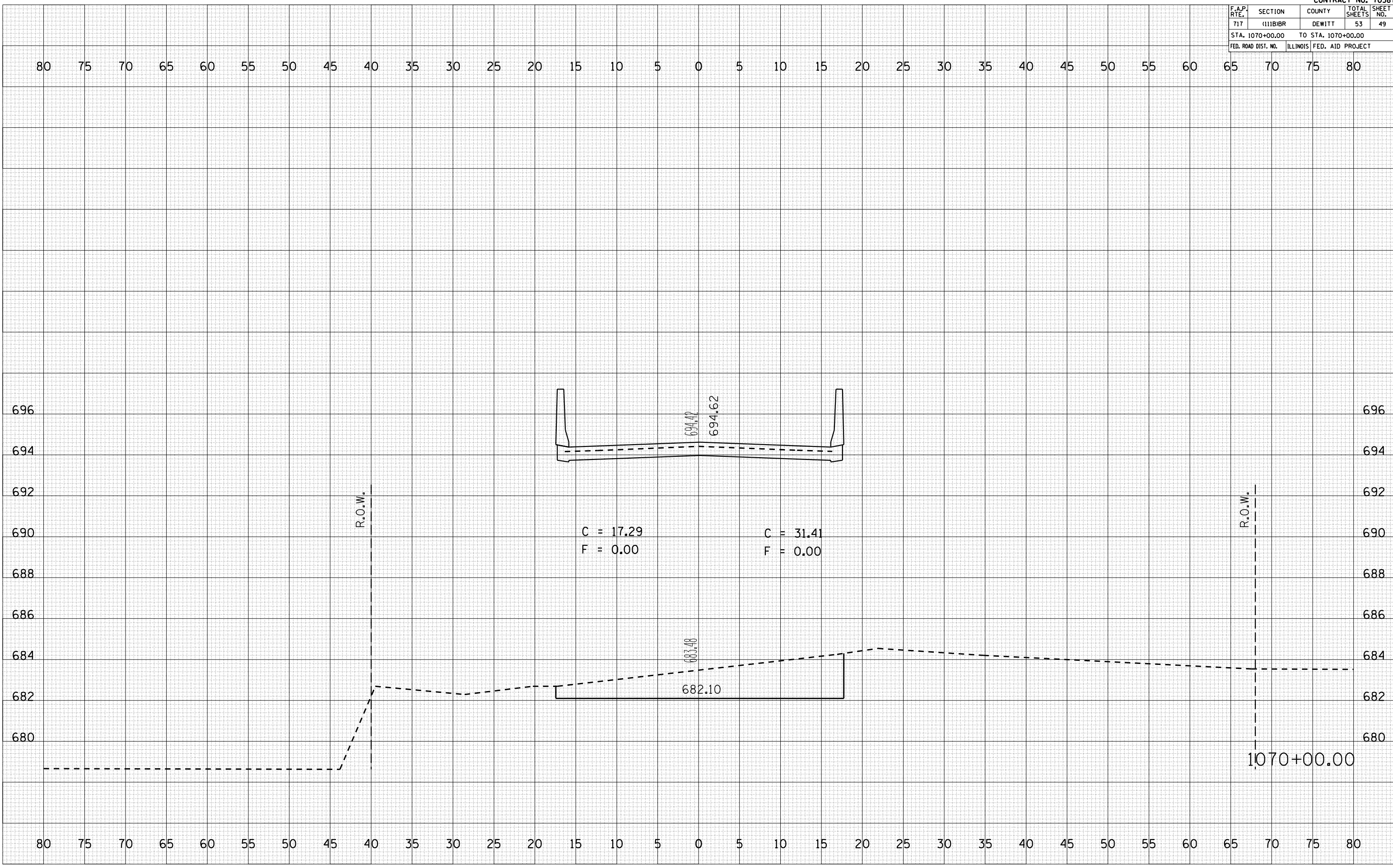
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NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = 8/24/2006
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 PLOT SCALE = 1/8" = 10.000'
 USER NAME = pier-ar-br



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(111B)BR	DEWITT	53	52
STA. 1070+50.00 TO STA. 1070+50.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

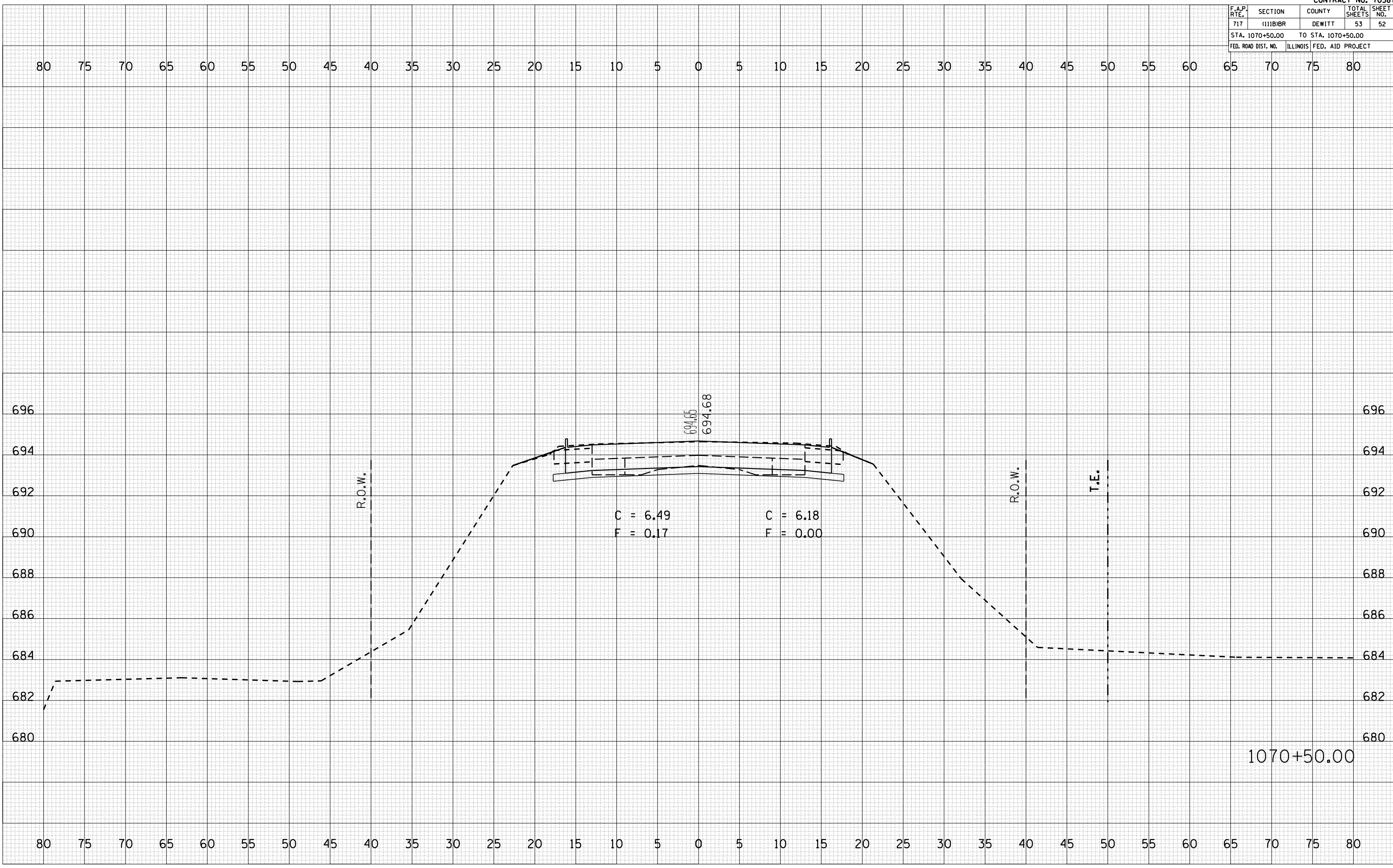
BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	AREAS CHECKED

PLOT DATE = 8/24/2006
 FILE NAME = 101118...
 PLOT SCALE = 1/8" = 100'
 USER NAME = pier-ar-br



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(11)BIBR	DEWITT	53	53
STA. 1071+00.00		TO STA. 1071+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE
ORIGINAL SURVEY	SURVEYED
FILE NAME	PLOTTED
NO.	AREAS CHECKED

PLOT DATE = 8/24/2006
 FILE NAME = 1071118-01-2006-03004
 PLOT SCALE = 10.5602" / IN.
 USER NAME = pier-ar-br

