

72993

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	1

• IV,T1B-2

+1
69

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE: 662 (IL 4)

SECTION: (V,T)B-2

PROJECT NO: ACF-0005 (470)

MACOUPIN COUNTY

BRIDGE REMOVAL & REPLACEMENT

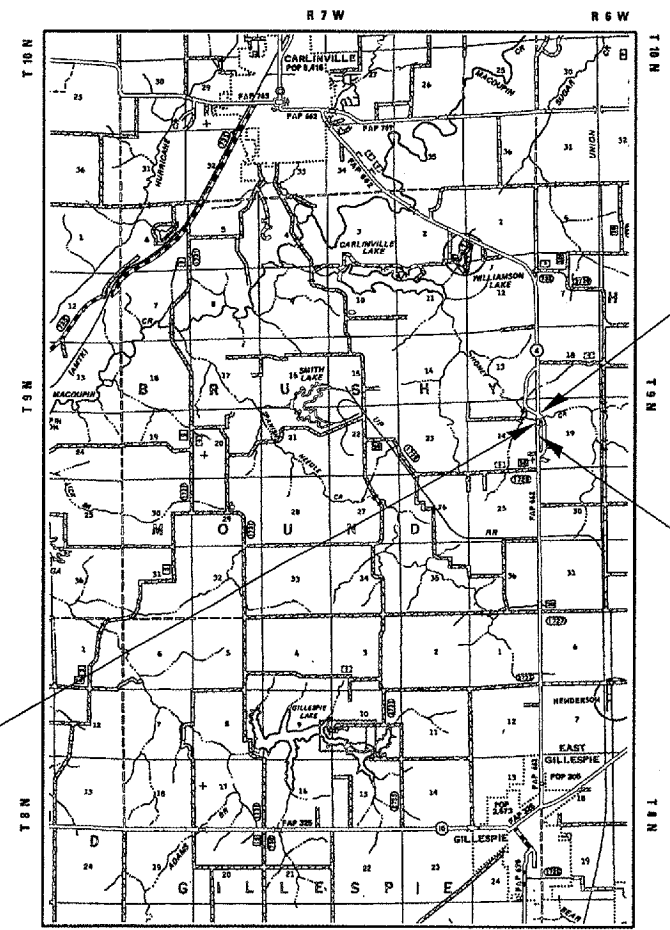
C-96-515-06

INDEX OF SHEETS

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- 51 - 68 CROSS SECTIONS

STANDARDS

000001-04	701006-02
001001-01	701011-01
001006	701301-02
280001-03	701306-01
420401-05	701311-02
515001-02	701321-08
630001-07	702001-06
630301-04	704001-03
631032-03	780001-01
701001-01	781001-02
	<i>701201-02</i>



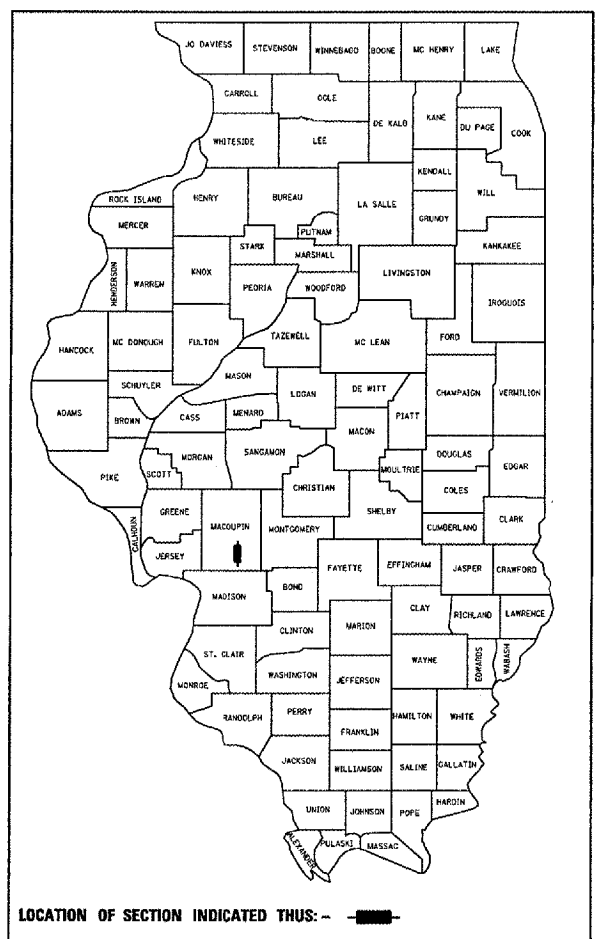
**BEGIN PROJECT
STA 441+00**

**END PROJECT
STA 452+00**

**STA 447+03.80
PROJECT INCLUDES
BRIDGE REMOVAL AND
REPLACEMENT
OF SN 059-0008
EX 3 - SPAN BRIDGE;
108'-0" BK TO BK ABUT.
33'-8" OUT TO OUT
WITH PROP
SN 059-0504 SINGLE
SPAN 89'-0" BK TO BK
39'-2" OUT TO OUT**

AVERAGE DAILY TRAFFIC: 3150 (2005)
SU: 150
MU: 225

LAYOUT MAP
GROSS LENGTH OF PROJECT = 1100 FT. = 0.208 MI.
NET LENGTH OF PROJECT = 1100 FT. = 0.208 MI.



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Mar 13 20 07*
Chris M Reed DISTRICT ENGINEER

March 23, 20 07
Eric E. Harm ENGINEER OF DESIGN AND ENVIRONMENT

March 23, 20 07
Milton R. Sees P.E. DIRECTOR, DIVISION OF HIGHWAYS

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

PROJECT ENGINEER: JOHN NEGANGARD (217) 782-6990
SR. SQUAD LEADER: MARK DUST (217) 785-0597

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

CONTRACT NO. 72993

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

- 1 ALL ELEVATIONS SHOWN IN THE PLANS ARE U.S.G.S. MEAN SEA LEVEL DATUM.
- 2 ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERRUPTED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN IN THE PLANS.
- 3 THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NORMAL THICKNESS. DEVIATIONS FROM THE NORMAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 4 SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER.
- 5 EXISTING PAVEMENT DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS, AND NOT OTHER WISE NECESSARY TO REPLACE, SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 6 THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINE IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCED NOTICE IS REQUIRED.
- 7 THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 8 ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARDS SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN TH COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 9 WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION IF THE ENGINEER DECIDES TO HAVE THE CONTRACTOR RESET THE MONUMENT, THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.
- 10 NO PASSING ZONES SHALL BE FIELD VERIFIED BY DAVE BERTETTO, DIST. 6, (217)785-0288, 14 DAYS PRIOR TO FINAL PAVEMENT MARKINGS.
- 11 THE FOLLOWING APPLICATION RATES WERE USED FOR QUANTITY CALCULATIONS.

BITUMINOUS SURFACE COURSE, _____	0.056 TON / SQ YD • IN
AGGREGATE SHOULDERS TYPE A _____	2.05 TON / CU YD
BITUMINOUS MATERIAL (PRIME COAT) _____	0.00038 TON / SQ YD
NITROGEN _____	90 LBS / ACRE
PHOSPHOROUS _____	90 LBS / ACRE
POTASSIUM _____	90 LBS / ACRE
LIMESTONE _____	2 TON / ACRE
MULCH _____	2 TON / ACRE
TEMPORARY EROSION CONTROL SEEDING _____	100 LB / ACRE
RIPRAP _____	1.50 TON / CU YD
AGGREGATE SHOULDERS TYPE B _____	1.89 TON / CU YD

12 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

MIXTURE USE	Surface 40603310	Level Binder 40600625	Binder 40603080	Incidental Surface 40800050	Base Course Widening 10" 35600716	Shoulders 48203100
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22
DESIGN AIR VOIDS	4.0 @ N Design = 50	4.0 @ N Design = 50	4.0 @ N design = 50	4.0 @ N design = 50	4.0 @ N design = 50	2.0 @ N design = 30
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5	IL 19.0	IL 9.5 or 12.5	IL 19.0	BAM
FRICITION AGGREGATE	Mix "C"	N/A	N/A	Mix "C"	N/A	N/A

COMMITMENTS

- THE FIELD/RESIDENT ENGINEER SHALL CONTACT STUDIES & PLANS CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.

EXAMINED Dec 14 2006
[Signature]
 PROGRAM IMPLEMENTATION ENGINEER

DISTRICT SIX

EXAMINED December 14 2006
[Signature]
 OPERATIONS ENGINEER

EXAMINED December 15 2006
[Signature]
 PROGRAM DEVELOPMENT ENGINEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & COMMITMENTS

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

c:\projects\652002\over.dgn
 12/13/2006
 *REF B1

Rev.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

(V,1) B-2

SUMMARY OF QUANTITIES		UNITS	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE
PAY CODE NUMBER	PAY ITEM DESCRIPTION				
			<i>80% FED. 20% STATE</i>	RURAL ROADWAY 1000 80% FED 20% STATE	IL 4 BRIDGE X081-2A 80% FED 20% STATE
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	138	138	-
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	134	134	-
20200100	EARTH EXCAVATION	CU YD	348	348	-
20400800	FURNISHED EXCAVATION	CU YD	919	919	-
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	225	-	225
20800150	TRENCH BACKFILL	CU YD	10	10	-
25000200	SEEDING, CLASS 2	ACRE	0.8	0.8	-
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	72	72	-
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	72	72	-
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	72	72	-
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.6	1.6	-
25100115	MULCH, METHOD 2	ACRE	0.2	0.2	-
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2900	2900	-
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200	200	-
28000400	PERIMETER EROSION BARRIER	FOOT	500	500	-
28001000	AGGREGATE (EROSION CONTROL)	TON	10	10	-
28100109	STONE RIPRAP, CLASS A5	SQ YD	2000	2000	-
28200200	FILTER FABRIC	SQ YD	2000	2000	-
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	346	346	-
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	25	25	-

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

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 P:\03\101\1007\101\1007.dgn
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

(IV,7) B-2

SUMMARY OF QUANTITIES		UNITS	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE
			80% FED.		
			20% STATE		
PAY CODE NUMBER	PAY ITEM DESCRIPTION			RURAL ROADWAY 1000 80% FED 20% STATE	IL 4 BRIDGE X081-2A 80% FED 20% STATE
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2	2	-
40600300	AGGREGATE (PRIME COAT)	TON	12	12	-
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	135	135	-
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	375	375	-
40600990	TEMPORARY RAMP	SQ YD	99	99	-
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	970	970	-
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	215	215	-
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	25	25	-
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	245	245	-
44000100	PAVEMENT REMOVAL	SQ YD	130	130	-
44004250	PAVED SHOULDER REMOVAL	SQ YD	20	20	-
44200108	PAVEMENT PATCHING, TYPE II, 9 INCH	SQ YD	18	18	-
48101200	AGGREGATE SHOULDERS, TYPE B	TON	350	350	-
48203100	HOT-MIX ASPHALT SHOULDERS	TON	155	155	-
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	-	1
50105200	REMOVE EXISTING CULVERTS	EACH	1	1	-
50200100	STRUCTURE EXCAVATION	CU YD	260	-	260
50300225	CONCRETE STRUCTURES	CU YD	52.3	-	52.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	144.5	-	144.5
50300260	BRIDGE DECK GROOVING	SQ YD	580	245	335

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE

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CHECKED BY

Rev.

PLOT DATE
PLOT SCALE
USER NAME

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	5
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

(V,T) B-2

SUMMARY OF QUANTITIES		UNITS	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE
PAY CODE NUMBER	PAY ITEM DESCRIPTION		80% FED. 20% STATE	RURAL ROADWAY 1000 80% FED 20% STATE	IL 4 BRIDGE X081-2A 80% FED 20% STATE
50300300	PROTECTIVE COAT	SQ YD	431	-	431
50401105	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 54 IN.	FOOT	524.5	-	524.5
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	32,120	-	32,120
50800515	BAR SPLICERS	EACH	355	-	355
51201105	FURNISHING METAL SHELL PILES 14"	FOOT	931	-	931
51202305	DRIVING PILES	FOOT	931	-	931
51203200	TEST PILE METAL SHELLS	EACH	2	-	2
51500100	NAME PLATES	EACH	1	-	1
542A0229	PIPE CULVERT, CLASS A, TYPE 1 24"	FOOT	53	53	-
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2	-
54215547	METAL END SECTIONS 12"	EACH	2	2	-
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	113	-	113
60103500	PIPE DRAINS, CORRUGATED STEEL 12"	FOOT	20	20	-
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	248	-	248
60900140	TYPE B INLET BOX, STANDARD 609006	EACH	2	2	-
* 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	950	950	-
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	-
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	4	4	-
63200310	GUARDRAIL REMOVAL	FOOT	436	436	-
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	-

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT.
DATE

DRAWN BY
CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

(V,T) B-2

SUMMARY OF QUANTITIES		UNITS	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE
PAY CODE NUMBER	PAY ITEM DESCRIPTION	80% FED. 20% STATE		RURAL ROADWAY 1000 80% FED 20% STATE	IL 4 BRIDGE X081-2A 80% FED 20% STATE
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	-	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	-
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	-
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	-	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	256	256	-
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	2620	2620	-
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	86	86	-
70400100	TEMPORARY CONCRETE BARRIER	FOOT	550	-	550
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	530	-	530
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	2,900	2,900	-
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	13	13	-
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	17	17	-
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	-
78300100	PAVEMENT MARKING REMOVAL	SQ FT	720	720	-
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	14	14	-
X0321100	GEOTEXTILE RETAINING WALL	SQ FT	143	-	143
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	-	1
● Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	-	4
● Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	-	2
Z0073100	TEMPORARY SHORING	EACH	2	-	2

PLOT DATE
PLOT NAME
PLOT SCALE
USER NAME

● 5FT1-3N

* SPECIALTY ITEMS

Rev.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (V,T) B-2				

TREE REMOVAL		
LOCATION	TREE REMOVAL 6" TO 15"	TREE REMOVAL > 15"
	UNIT	UNIT
RT STA 446+52.80		20
RT STA 446+54.54		25
RT STA 446+52.29	14	
RT STA 446+75.06		26
RT STA 446+92.48	11	
LT STA 446+31.80	6	
LT STA 446+32.10	6	
LT STA 446+32.30	6	
LT STA 446+33.38	6	
LT STA 446+90.63	10	
LT STA 447+07.14	7	
LT STA 447+06.51	6	
LT STA 447+06.95	12	
LT STA 447+10.05		23
LT STA 447+14.14	13	
LT STA 447+15.17	6	
LT STA 447+16.09	8	
LT STA 447+32.91	8	
LT STA 447+40.20 (STUMP)		20
LT STA 447+39.78	9	
LT STA 447+42.39	10	
LT STA 447+40.99		20
TOTAL =	138	134

HOT MIX ASPHALT SHOULDERS			
LOCATION	LENGTH	BIT PAY WIDTH	HOT-MIX ASPHALT SHLDRS. (1.5-2.5"
	FOOT	FOOT	TON
LT STA 441+00.00 TO LT STA 441+85.00	85.00	1.0	1.06
LT STA 441+85.00 TO LT STA 442+85 - SIDE ROAD OMISSION			
LT STA 442+85.00 TO LT STA 446+29.30	344.30	7.0	37.79
LT STA 446+29.30 TO LT STA 447+78.30 - BRIDGE OMISSION			
LT STA 447+78.30 LT STA 451+10	331.70	7.0	36.41
LT STA 451+10 TO LT STA 451+50	40.00	7.0 TO 2.0	2.82
LT STA 451+50 TO LT STA 452+00	50.00	1.0	0.5
RT STA 441+00 TO RT STA 441+28	28.00	1.0	0.25
RT STA 441+28 TO RT STA 442+67- SIDE ROAD OMISSION			
RT STA 442+67.00 TO RT STA 446+29.30	362.30	7.0	39.76
RT STA 446+29.30 TO RT STA 447+78.30- BRIDGE OMISSION			
RT STA 447+78.30 TO RT STA 450+35	256.70	7.0	28.17
RT STA 450+35 TO RT STA 451+00	65.00	7.0 TO 2.0	4.59
RT STA 451+00 TO RT STA 452+00	100.00	1.0	1.30
NOTE: PRIME COAT QUANTITIES ARE INCLUDED IN RESURFACING SCHEDULE			
TOTAL =			152.67

RESURFACING & BRIDGE APPROACH PAVEMENT												
LOCATION	LENGTH	WIDTH	PR BIT SURF CSE AREA	AVERAGE THICKNESS (SURF & LEV B)	HOT-MIX ASPH SURF. REM. BUTT JOINT	TEMPORARY RAMP	BITUMINOUS MATERIALS (PR COAT)	** AGGREGATE (PR COAT)	HMA BINDER IL19.0, N50 VAR DEPTH	LEVEL BIND (MACH METH) N50	HMA SURF MIX C N50 1.5 INCH	BRIDGE APPROACH PAVEMENT
	FOOT	FOOT	SQ YD	INCHES	SQ YD	SQ YD	TON	TON	TON	TON	TON	SQ YD
STA 441+00.00 TO STA 441+50.00 (RAMP)	50.00	24.00	133.3	1.50 TO 2.50	80.00	(24X5) 13.33	0.08	0.61	0.00	1.51	11.26	0.00
STA 441+50.00 TO STA 443+00.00	150.00	24.00	400.0	2.50	0.00		0.26	1.82	0.00	22.71	33.77	0.00
STA 443+00.00 TO STA 445+00.00	200.00	24.00	533.3	2.50	0.00		0.47	2.43	310.35	30.28	45.02	0.00
STA 445+00.00 TO STA 446+29.30	129.30	24.00	344.8	2.50	0.00	(36X9) 36.00	0.30	1.57	433.72	19.57	29.11	0.00
STA 446+29.30 TO STA 446+58.80 - BR APPR PVT												122.36
STA 446+58.80 TO STA 447+48.80 - BRIDGE												
STA 447+48.80 TO STA 447+78.30 - BR APPR PVT												122.36
STA 447+78.30 TO STA 449+00.00	121.70	24.00	324.5	2.50	0.00	(36X9) 36.00	0.28	1.48	191.52	18.42	27.40	0.00
STA 449+00.00 TO STA 451+50.00	250.00	24.00	666.7	2.50	0.00		0.28	3.02	29.72	37.85	56.28	0.00
STA 451+50.00 TO STA 452+00.00 (RAMP)	50.00	24.00	133.3	2.50 TO 1.50	80.00	(24X5) 13.33	0.08	0.61	0.00	1.51	11.26	0.00
• BIT MATERIALS (PRIME COAT) INCLUDES 0.00038 TONS/SY UNDER LEV BINDER AND SHLDR AND 0.00019 TONS/SY UNDER SURFACE. • TWO APPLICATIONS ON THE MAINLINE												
TOTAL =					160	98.7	1.75	11.54	965.31	131.86	214.09	244.72

PLOT DATE = 3/13/2007
 FILE NAME = c:\projects\652695\shschedules.dgn
 PLOT SCALE = 1/8"=1'-0" / IN.
 USER NAME = laughlin-1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT. _____
 HORIZ. _____

DRAWN BY _____
 CHECKED BY _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

AGGREGATE SHOULDERS

LOCATION	LENGTH	AVE WIDTH	AGGREGATE SHOULDERS
	FOOT	FOOT	TON
LT STA 441+00.00 TO LT STA 441+85.00	85.00	4.00	5.00
LT STA 441+85.00 TO LT STA 442+85 - SIDE ROAD OMISSION			
LT STA 442+85.00 TO LT STA 443+00	15.00	4.00	0.88
LT STA 443+00 TO LT STA 444+00	100.00	4.30	17.57
LT STA 444+00 TO LT STA 445+00	100.00	4.74	32.97
LT STA 445+00 TO LT STA 446+00	100.00	5.03	48.23
LT STA 446+00 TO LT STA 446+29.30	29.30	5.19	16.86
LT STA 446+29.30 TO LT STA 447+78.30 - BRIDGE OMISSION			
LT STA 447+78.30 LT STA 448+00	21.70	5.01	7.64
LT STA 448+00 TO LT STA 449+00	100.00	4.72	24.68
LT STA 449+00 TO LT STA 450+00	100.00	4.24	9.84
LT STA 450+00 TO LT STA 452+00	200.00	4.00	11.76
RT STA 441+00 TO RT STA 441+28	28.00	4.00	1.64
RT STA 441+28 TO RT STA 442+67- SIDE ROAD OMISSION			
RT STA 442+67.00 TO RT STA 443+00	33.00	4.00	1.94
RT STA 443+00 TO RT STA 444+00	100.00	4.30	17.57
RT STA 444+00 TO RT STA 445+00	100.00	4.74	32.97
RT STA 445+00 TO RT STA 446+00	100.00	5.03	48.23
RT STA 446+00 TO RT STA 446+29.30	29.30	5.19	16.86
RT STA 446+29.30 TO RT STA 447+78.30- BRIDGE OMISSION			
RT STA 447+78.30 TO RT STA 448+00	21.70	5.01	7.64
RT STA 448+00 TO RT STA 449+00	100.00	4.72	24.68
RT STA 449+00 RT STA 450+00	100.00	4.24	9.66
RT STA 450+00 TO RT STA 450+35 - ENTRANCE OMISSION			
RT STA 450+35 TO RT STA 452+00	165.00	4.00	9.70
TOTAL =			346.32

HMA BASE COURSE WIDENING, 10"

LOCATION	LENGTH	BIT PAY WIDTH	HMA BASE COURSE WID, 10"
	FOOT	FOOT	SO YD
LT STA 442+75.00 TO LT STA 442+85.00	10.00	0.0 - 3.0	1.67
LT STA 442+85.00 TO LT STA 446+29.30	344.30	2.0	76.51
LT STA 446+29.30 TO LT STA 447+78.30 - BRIDGE OMISSION			
LT STA 447+78.30 TO LT STA 450+71.00	292.70	2.0	65.04
LT STA 450+71.00 TO LT STA 450+95.00	24.00	2.0 - 6.0	10.67
LT STA 450+95.00 TO LT STA 451+10.00	15.00	7.0	11.67
LT STA 451+10.00 TO LT STA 451+50.00	40.00	7.0 - 2.0	20.00
RT STA 442+57.00 TO RT STA 442+67.00	10.00	0.0 - 3.0	1.67
RT STA 442+67.00 TO RT STA 446+29.30	362.30	3.0 - 2.0	80.51
RT STA 446+29.30 TO RT STA 447+78.30 - BRIDGE OMISSION			
RT STA 447+78.30 TO RT STA 450+35.00	256.70	2.00	57.04
RT STA 450+35.00 TO RT STA 450+76.00	41.00	2.0 - 3.8	13.21
RT STA 450+76.00 TO RT STA 451+00.00	24.00	2.00	7.73
NOTE: PRIME COAT QUANTITIES ARE INCLUDED IN RESURFACING SCHEDULE			
TOTAL =			345.72

GUARDRAIL SCHEDULE

LOCATION	TBT T-1 SPL (TANGENT)	TERMINAL MARKER DIR. APPL.	TBT T-6	SPBGR T-A	GUARDRAIL MARKERS T-A	GUARDRAIL REMOVAL
	EACH	EACH	EACH	FOOT	EACH	FOOT
RT STA 442+82.50 TO RT STA 443+32.50	1	1			-	
RT STA 443+32.50 TO RT STA 446+07.50				275.0	5	
RT STA 446+07.50 TO RT STA 446+53.10			1			109
NW Quadrant						
RT STA 447+37.10 TO RT STA 447+82.70			1		-	
RT STA 447+82.70 TO RT STA 449+32.70				150.0	3	
RT STA 449+32.70 TO RT STA 449+82.70	1	1				109
SW Quadrant						
LT STA 442+99.90 TO LT STA 443+49.90	1	1			-	
LT STA 443+49.90 TO LT STA 446+24.90				275	3	
LT STA 446+24.90 TO LT STA 446+70.50			1			109
NE Quadrant						
LT STA 447+54.50 TO LT STA 448+00.10			1		-	
LT STA 448+00.10 TO LT STA 450+50.10				250.0	4	
LT STA 450+50.10 TO LT STA 451+00.10	1	1				109
SE Quadrant						
TOTAL =	4	4	4	950	15	436

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES

SCALE: VERT. / HORIZ.
DATE

DRAWN BY
CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

(V,T) B-2

ENTRANCE IMPROVEMENT SCHEDULE												
LOCATION	TYPE OF ENTRANCE	EX MATERIAL TYPE	BACK WIDTH	OFFSET FROM "EDGE LINE"	BITUMINOUS SHOULDER WIDTH	BIT RESURF AREA	PR HOT MIX ASPHALT THICKNESS	INCIDENTAL HOT MIX ASPHALT SURF REMOVAL BUTT JOINT	BIT MAT (PRIME COAT)	AGGREGATE (PRIME COAT)	INCIDENTAL BIT. SURF.	AGGREGATE SURFACE CSE. T-B
STATION	(PE/CE/MB/SR)	(AGG./BIT./PCC.)	(FT)	(FT)	(FT)	(SQ. YD)	(INCH)	(SQ. YD)	(TON)	(TON)	(TON)	(TON)
442+30 RT - DEERFIELD RD	SR	BIT	88	11	0	127.8	VAR. 2.5-1.0	127.8	0.05	0.26	13.8	-
442+30 LT - DEERFIELD RD	SR	BIT	58	11	0	86.7	VAR. 2.5-1.0	86.7	0.03	0.17	9.4	-
450+16 RT	PE/MB	AGG	16' - 10'	8	7	-	-	-	-	-	-	25
TOTAL =								214.5	0.08	0.43	23.2	25

PAVEMENT MARKING								
LOCATION	RAISED REFL PVT MK REMOVAL	PAINT PVT MK - LINE 5" SOLID WHITE	PAINT PVT MK - LINE 5" YELLOW	RAISED REFL PVT MARKERS	SHORT TERM PVT MK 4"	TEMPORARY PAVEMENT MARKING-LINE 5"	WORK ZONE PVT MK REMOVAL	PAVEMENT MARKING REMOVAL
	EACH	FOOT	FOOT	EACH	FOOT	FOOT	SO FT	SO FT
STA 441+00.00 TO STA 452+00.00	14	2054	830	13	256	2620	86	
REMOVAL BEFORE STAGE 1								537
REMOVAL BEFORE STAGE 2								177
(NOTE: TEMPORARY PAVEMENT MARKING AND ITS REMOVAL ARE NOT PAID FOR SEPARATELY FOR STAGE 1 AND 2, BUT INCLUDED IN THE STANDARD)								
TOTAL =	14	2054	830	13	256	2620	86	714

EARTHWORK				
	EARTH EXCAVATION (CU YD)	EMBANKMENT (FOR INFO. ONLY) (CU YD)	EXCAVATION x 0.75 (CU YD)	FURNISH EXCAVATION (CU YD)
TOTAL	348	1180	261	919

ESTIMATED QUANTITIES		
ITEMS	UNIT	TOTAL
THE FOLLOWING ITEMS INCLUDE ESTIMATED QUANTITIES FOR HANDLING TEMPORARY EROSION CONTROL (SEE SPECIAL PROVISIONS)		
AGGREGATE (EROSION CONTROL)	TON	10
TEMPORARY EROSION CONTROL SEEDING	LBS	200
PERIMETER EROSION CONTROL BARRIER	FOOT	500

SEEDING SCHEDULE						
LOCATION	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRIC. GROUND LIMESTONE	HEAVY DUTY EROSION CONTRL BLANKET
	ACRE	POUND	POUND	POUND	TON	SQ YD
NORTHWEST QUADRANT	0.34	32	32	32	0.69	1620
NORTHEAST QUADRANT	0.24	22	22	22	0.50	1183
SOUTHWEST QUADRANT	0.02	2	2	2	0.04	25
SOUTHEAST QUADRANT	0.17	16	16	16	0.35	72
TOTAL	0.77	72	72	72	1.58	2,900

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

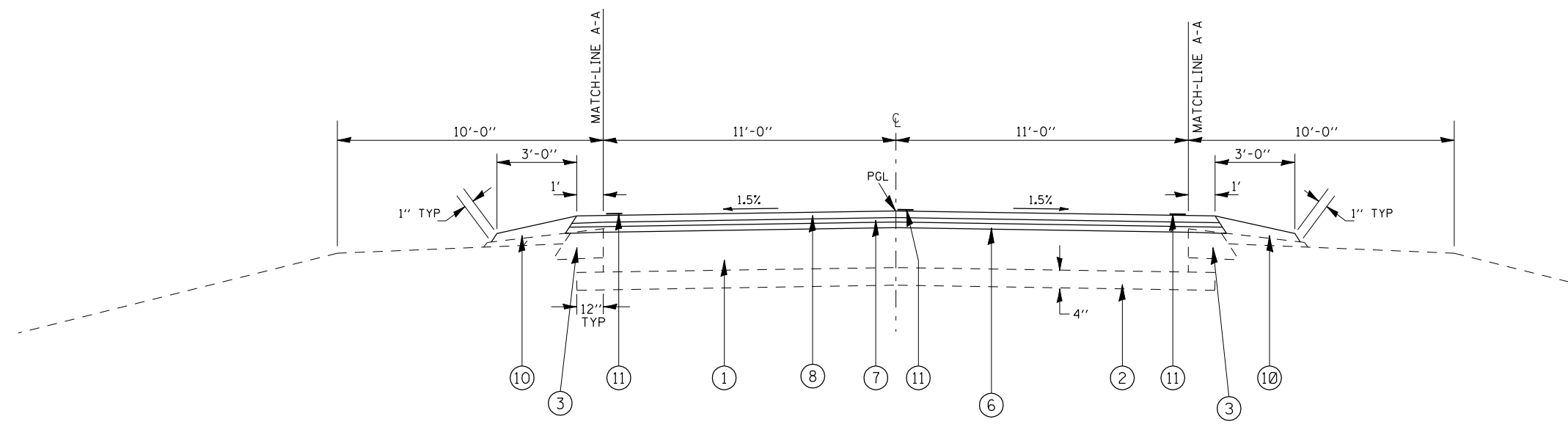
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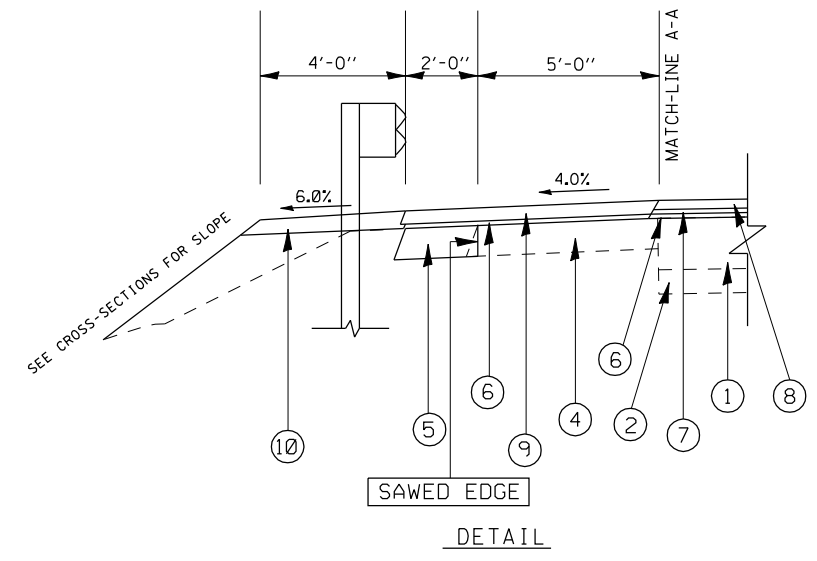
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 USER NAME = laughlin-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	•	MACOUPIN	68	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

(V.1)B-2



-STA 441+00.00 TO STA 446+13.80
 STA 446+13.80 TO STA 447+93.80 - PR BRIDGE APPR. PAVT. (STD 420401) & BRIDGE REPLACEMENT (SEE DETAILS).
 STA 447+93.80 TO STA 452+00.00



LEGEND

- ① EX PCC PAVEMENT, 9"
- ② EX SUB-BASE GRANULAR MATERIAL 4"
- ③ EX BIT. SHLDRS.
- ④ EX BIT. BASE COURSE WIDENING, SUPERPAVE, 10"
- ⑤ PR HMA BASE COURSE WIDENING 10"
- ⑥ PR HMA BINDER COURSE (THICKNESS VARIES 0" TO 17")
- ⑦ PR LEVELING BINDER (MACHINE METHOD) 1"
- ⑧ PR HMA SURFACE COURSE 1.5"
- ⑨ PR HMA SHOULDERS 2.5"
- ⑩ PR AGGREGATE SHOULDERS, TYPE B
- ⑪ PR PAVEMENT MARKING

LT STA 442+75.00 TO LT STA 442+99.90 - NO PR GUARDRAIL
 LT STA 442+99.90 TO LT STA 446+40.50
 LT STA 446+38.50 TO LT STA 447+86.50 - PR APPROACH PAVEMENT / BRIDGE
 LT STA 447+86.50 TO LT STA 451+00.10
 LT STA 451+00.10 TO LT STA 451+10.00 - NO PR GUARDRAIL
 LT STA 451+10.00 TO LT STA 451+50.00 - TRANS. 6' BIT. SHLD. TO 2' BIT. SHLD.

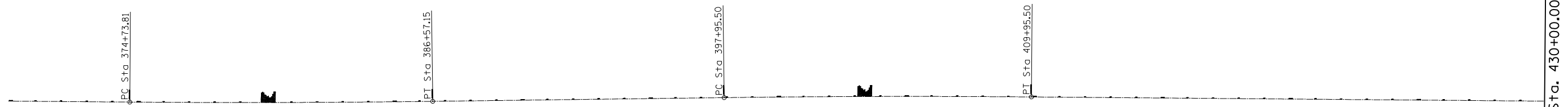
RT STA 442+57.00 TO RT STA 442+82.50 - NO PR GUARDRAIL
 RT STA 442+82.50 TO RT STA 446+33.10
 RT STA 446+21.10 TO RT STA 447+69.10 - PR APPROACH PAVEMENT / BRIDGE
 RT STA 447+69.10 TO RT STA 449+82.70
 RT STA 449+82.70 TO RT STA 450+35.00 - NO PR GUARDRAIL
 RT STA 450+35.00 TO RT STA 451+00.00 - TRANS. 6' BIT. SHLD. TO 2' BIT. SHLD.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
 SCALE: VERT. HORIZ. DATE: 04-07-03
 DRAWN BY: MAW
 CHECKED BY:

c:\projects\0652605\typicals.dgn
 3/13/2007
 +REF01

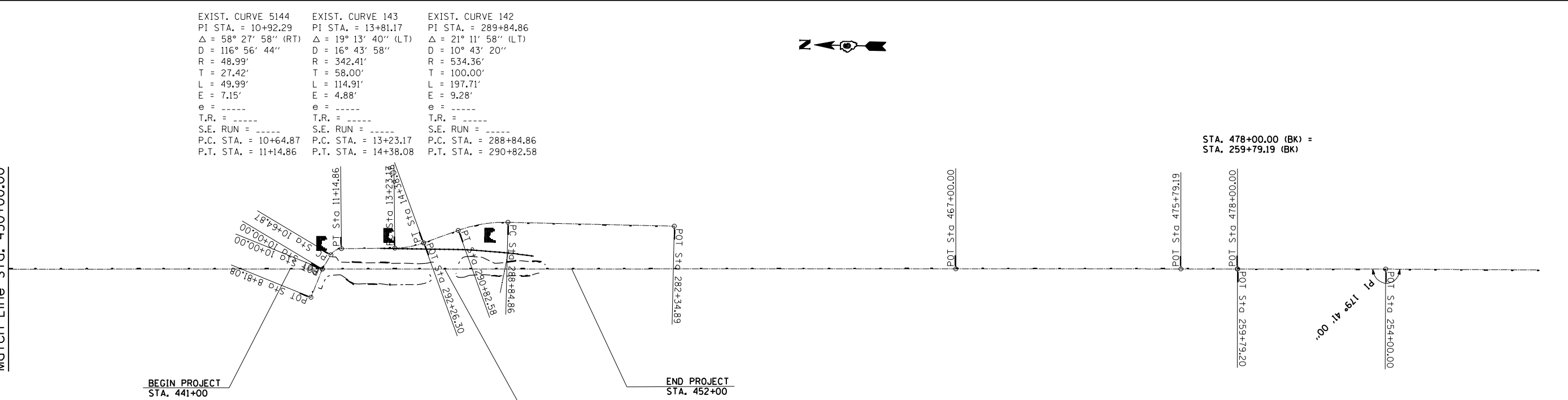
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(V,T)B-2		68	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE 4001
 PI STA. = 380+65.50
 $\Delta = 1^\circ 11' 00''$ (LT)
 D = 0° 06' 00"
 R = 57,296.10'
 T = 591.69'
 L = 1,183.34'
 E = 3.06'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 374+73.81
 P.T. STA. = 386+57.15
 EX & PR SE = N.C.

EXIST. CURVE 4000
 PI STA. = 403+95.52
 $\Delta = 1^\circ 12' 00''$ (RT)
 D = 0° 06' 00"
 R = 57,295.78'
 T = 600.02'
 L = 1,200.00'
 E = 3.14'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 397+95.50
 P.T. STA. = 409+95.50
 EX & PR SE = N.C.

Match Line Sta. 430+00.00



EXIST. CURVE 5144
 PI STA. = 10+92.29
 $\Delta = 58^\circ 27' 58''$ (RT)
 D = 116° 56' 44"
 R = 48.99'
 T = 27.42'
 L = 49.99'
 E = 7.15'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 10+64.87
 P.T. STA. = 11+14.86

EXIST. CURVE 143
 PI STA. = 13+81.17
 $\Delta = 19^\circ 13' 40''$ (LT)
 D = 16° 43' 58"
 R = 342.41'
 T = 58.00'
 L = 114.91'
 E = 4.88'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 13+23.17
 P.T. STA. = 14+38.08

EXIST. CURVE 142
 PI STA. = 289+84.86
 $\Delta = 21^\circ 11' 58''$ (LT)
 D = 10° 43' 20"
 R = 534.36'
 T = 100.00'
 L = 197.71'
 E = 9.28'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 288+84.86
 P.T. STA. = 290+82.58

STA. 478+00.00 (BK) =
 STA. 259+79.19 (BK)

Match Line Sta. 430+00.00

BEGIN PROJECT
 STA. 441+00

END PROJECT
 STA. 452+00

STA. 447+03.80
 SN 059-0504

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SURVEY ALIGNMENT

SCALE: VERT. _____
 HORIZ. _____

DATE _____

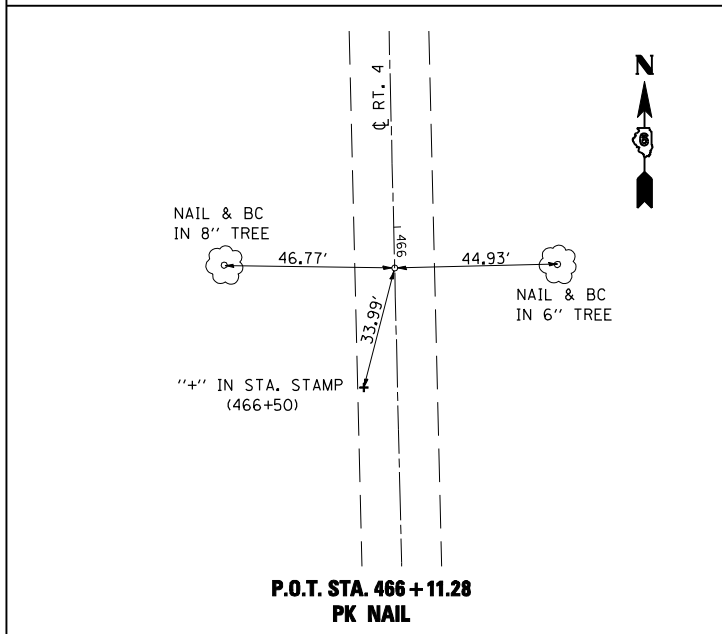
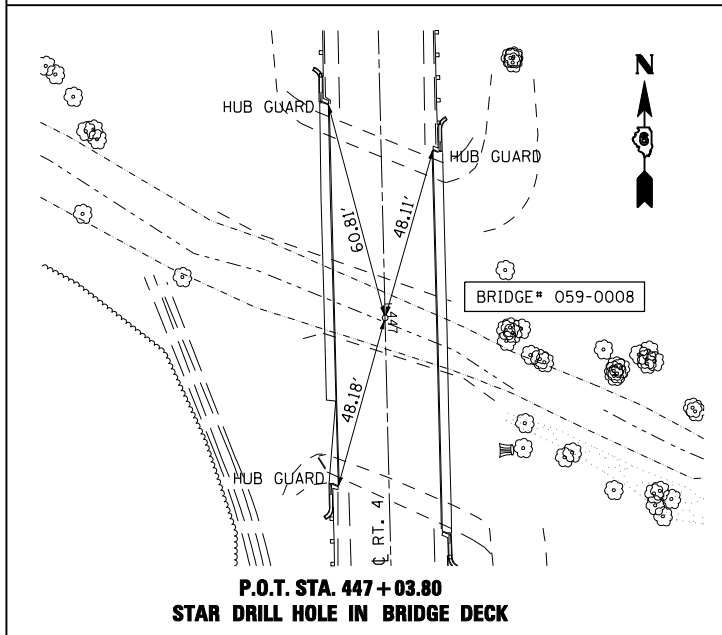
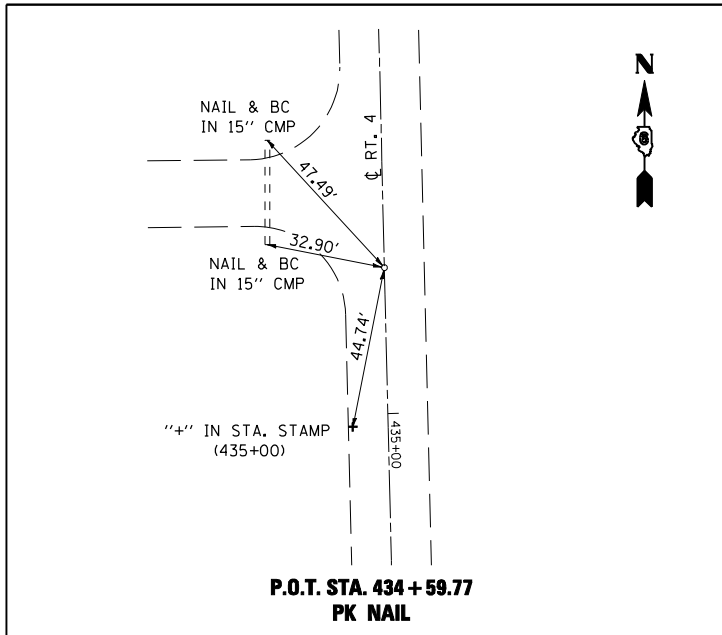
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 USER NAME = laughlin-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (V,T) B-2

BM #20A : TO REACH FROM INTERSECTION OF DEERFIELD RD. & OLD IL RTE 4,
 PROCEED SOUTH 507' TO BRIDGE 059-0008 OVER HONEY CREEK,
 BENCH IS LOCATED ON S.W. CORNER OF HUB GUARD.
 STA. 447+50.11, 15.2' RT.
 ELEV. = 602.96



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHMARKS & CROSS TIES

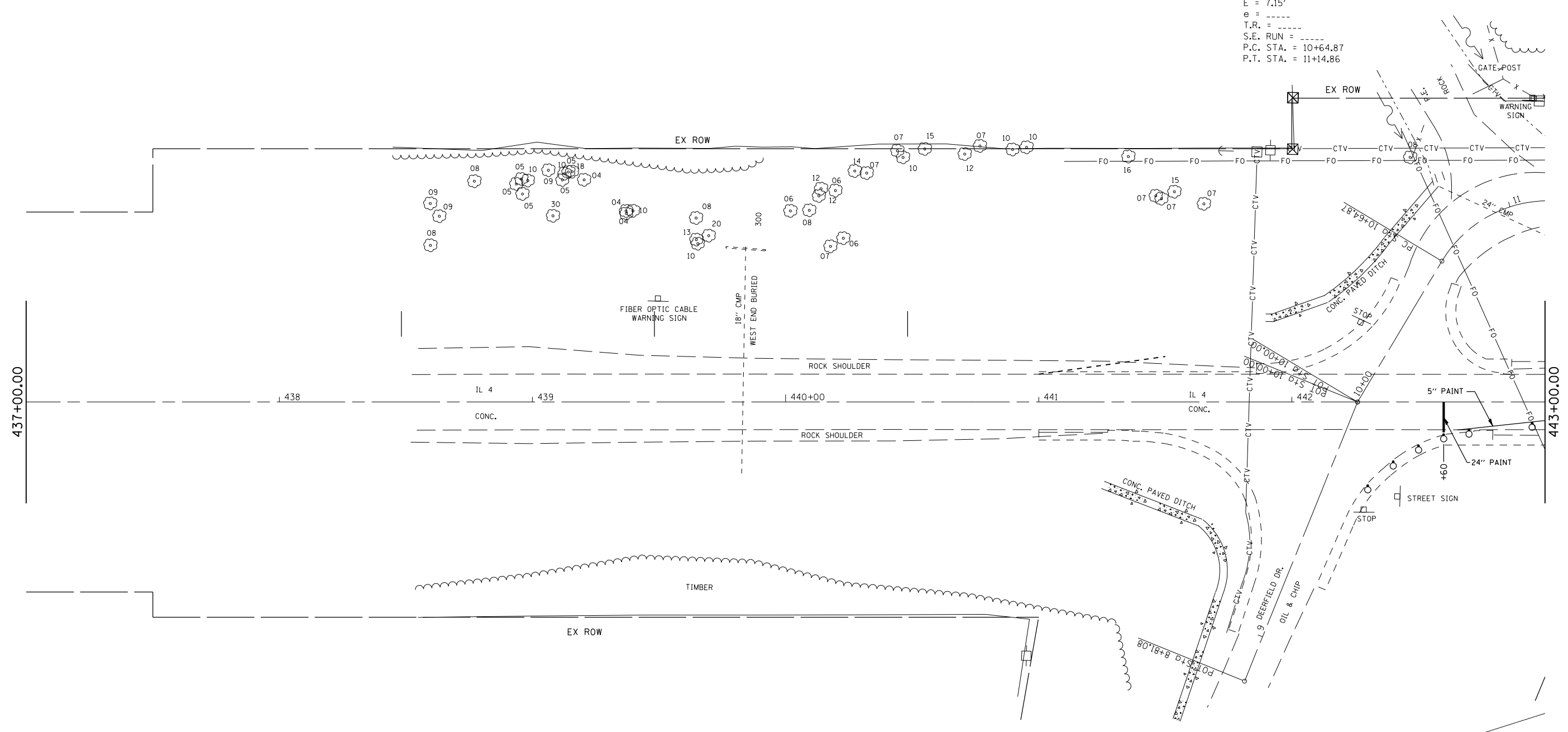
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 HORIZ. CHECKED BY
 DATE

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 3/13/2007
 +REF01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE 5144
 PI STA. = 10+92.29
 $\Delta = 58^\circ 27' 58''$ (RT)
 $D = 116^\circ 56' 44''$
 $R = 48.99'$
 $T = 27.42'$
 $L = 49.99'$
 $E = 7.15'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 10+64.87$
 $P.T. \text{ STA.} = 11+14.86$

(V,T) B-2



PAVEMENT MARKING, TEMPORARY PAVEMENT MARKING REMOVAL, AND VERTICAL PANELS INCLUDED IN COST OF STD 701321
 REMOVAL OF EXISTING PAVEMENT MARKING TO BE PAID AS PAVEMENT MARKING REMOVAL

REVISIONS	
NAME	DATE

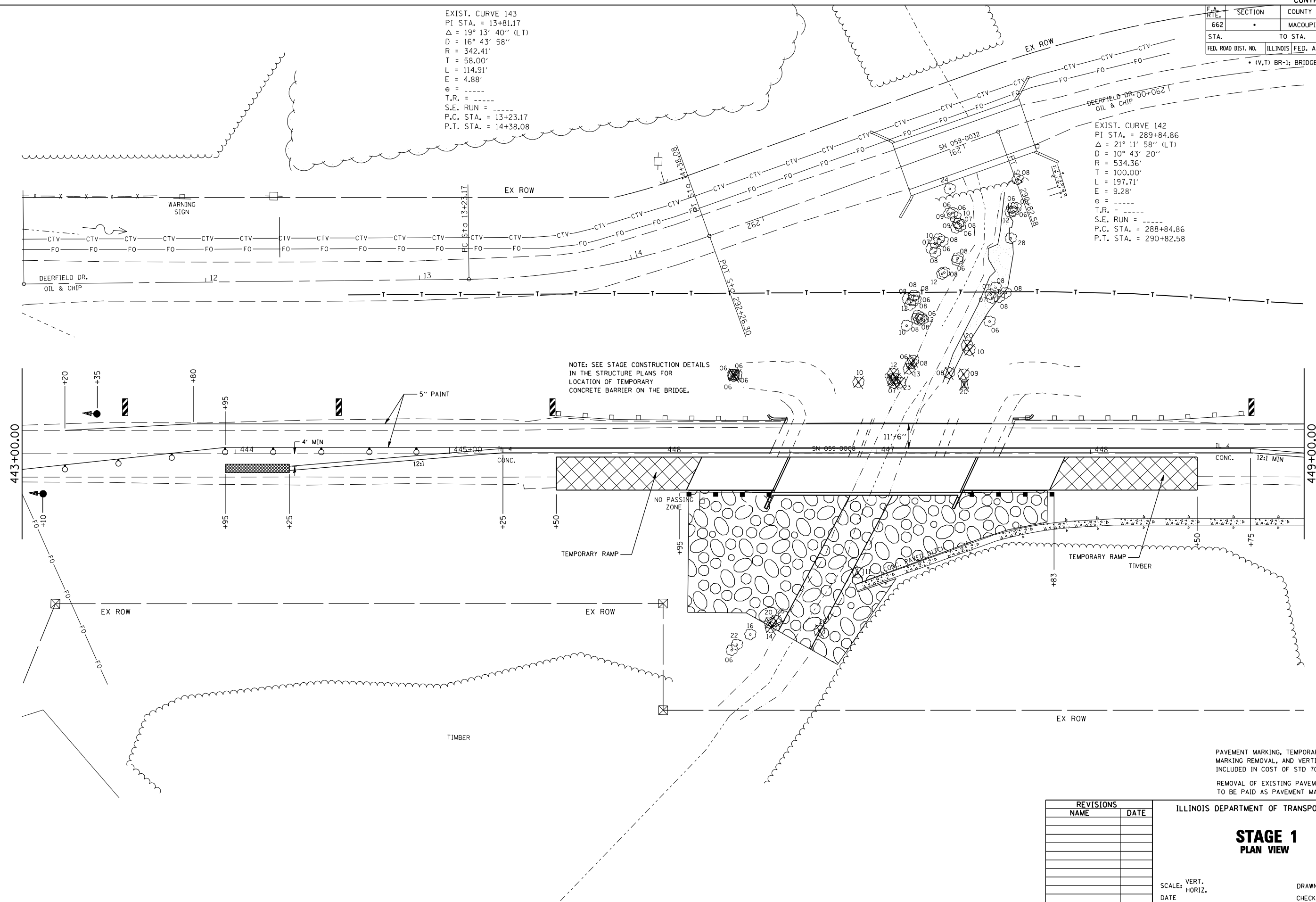
ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE 1
PLAN VIEW
 SCALE: VERT. / HORIZ.
 DATE: / /
 DRAWN BY: BOK
 CHECKED BY: JCN

PLOT DATE = 3/13/2007
 FILE NAME = c:\projects\662993\shots\stage1.dgn
 PLOT SCALE = 42.3525' / IN.
 REFERENCE = #REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EXIST. CURVE 143
 PI STA. = 13+81.17
 $\Delta = 19^\circ 13' 40''$ (LT)
 $D = 16^\circ 43' 58''$
 $R = 342.41'$
 $T = 58.00'$
 $L = 114.91'$
 $E = 4.88'$
 $e =$ -----
 $T.R. =$ -----
 $S.E. RUN =$ -----
 $P.C. STA. = 13+23.17$
 $P.T. STA. = 14+38.08$

EXIST. CURVE 142
 PI STA. = 289+84.86
 $\Delta = 21^\circ 11' 58''$ (LT)
 $D = 10^\circ 43' 20''$
 $R = 534.36'$
 $T = 100.00'$
 $L = 197.71'$
 $E = 9.28'$
 $e =$ -----
 $T.R. =$ -----
 $S.E. RUN =$ -----
 $P.C. STA. = 288+84.86$
 $P.T. STA. = 290+82.58$



NOTE: SEE STAGE CONSTRUCTION DETAILS IN THE STRUCTURE PLANS FOR LOCATION OF TEMPORARY CONCRETE BARRIER ON THE BRIDGE.

PAVEMENT MARKING, TEMPORARY PAVEMENT MARKING REMOVAL, AND VERTICAL PANELS INCLUDED IN COST OF STD 701321
 REMOVAL OF EXISTING PAVEMENT MARKING TO BE PAID AS PAVEMENT MARKING REMOVAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STAGE 1
 PLAN VIEW**

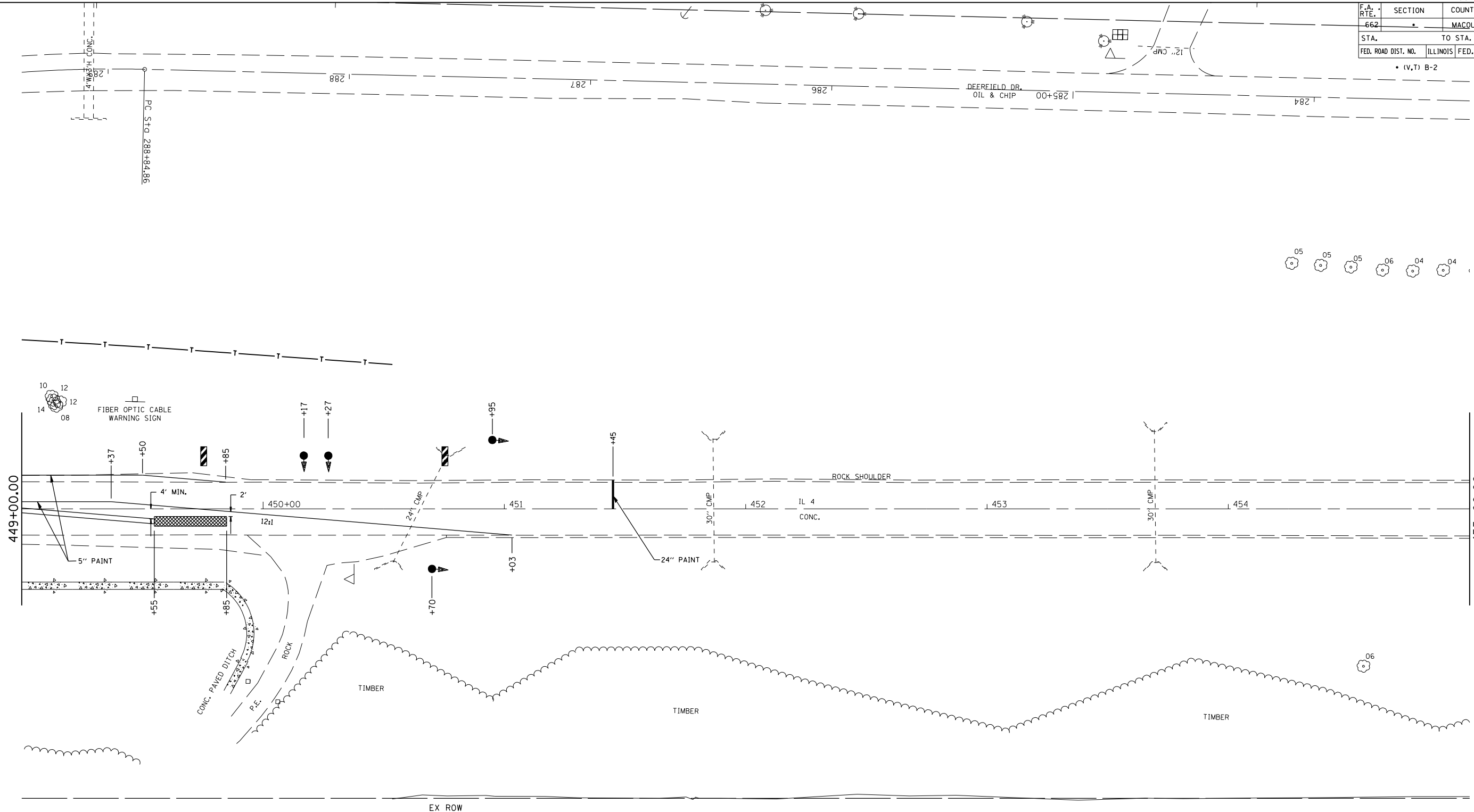
REVISIONS	
NAME	DATE

SCALE: VERT. _____
 HORIZ. _____
 DATE _____
 DRAWN BY: BDK
 CHECKED BY: JCN

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 PLOT SCALE = 42.3525' / IN.
 REFERENCE = #REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

(V,T) B-2



05 05 05 06 04 04

PAVEMENT MARKING, TEMPORARY PAVEMENT MARKING REMOVAL, AND VERTICAL PANELS INCLUDED IN COST OF STD 701321
 REMOVAL OF EXISTING PAVEMENT MARKING TO BE PAID AS PAVEMENT MARKING REMOVAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STAGE 1
 PLAN VIEW**

REVISIONS	
NAME	DATE

SCALE: VERT.
 HORIZ.
 DATE

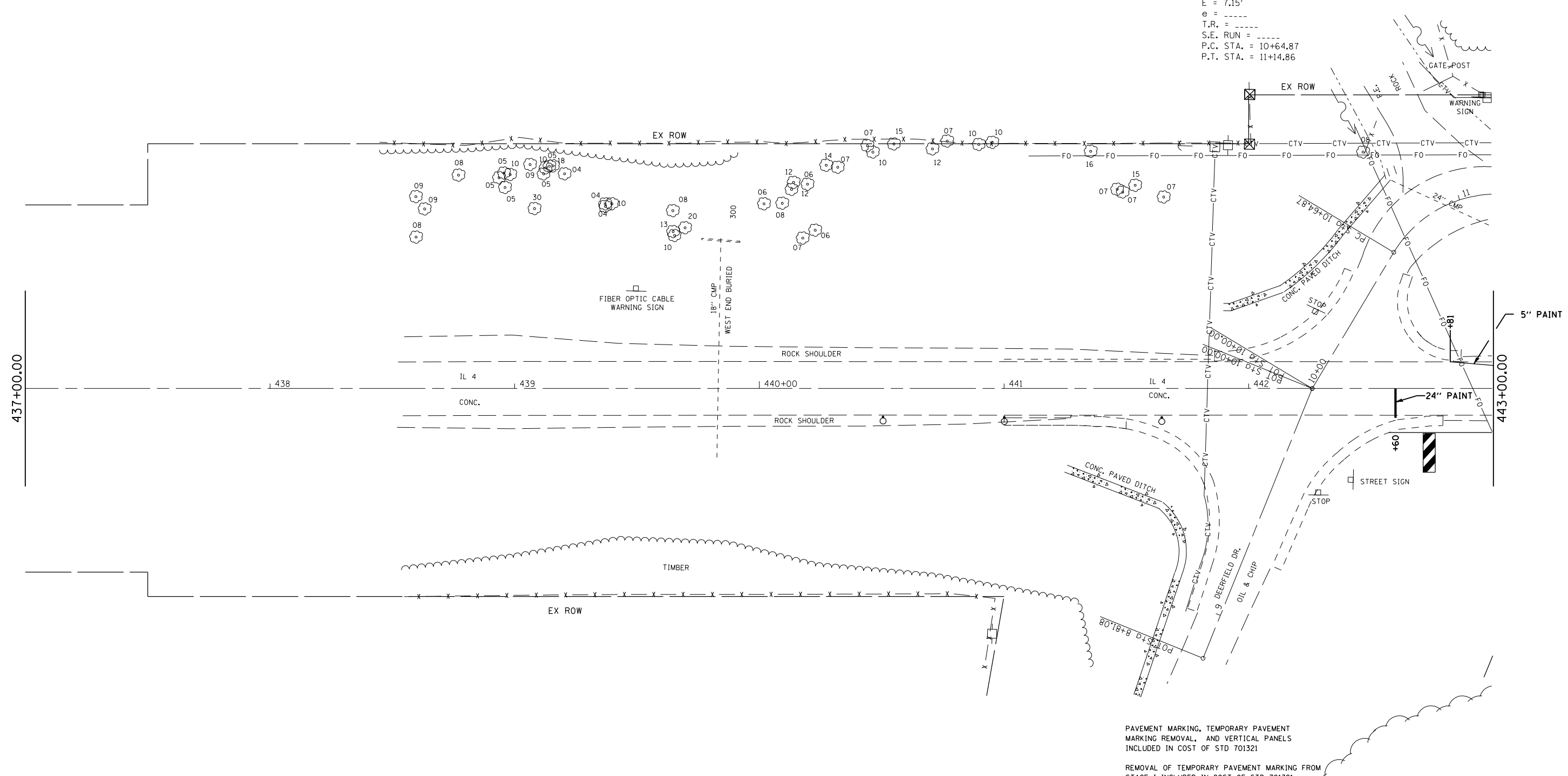
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 CHECKED BY JCN

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 REFERENCE = #REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE 5144
 PI STA. = 10+92.29
 $\Delta = 58^\circ 27' 58''$ (RT)
 $D = 116^\circ 56' 44''$
 $R = 48.99'$
 $T = 27.42'$
 $L = 49.99'$
 $E = 7.15'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 10+64.87$
 $P.T. \text{ STA.} = 11+14.86$

• (V,T)B-2



PAVEMENT MARKING, TEMPORARY PAVEMENT MARKING REMOVAL, AND VERTICAL PANELS INCLUDED IN COST OF STD 701321

REMOVAL OF TEMPORARY PAVEMENT MARKING FROM STAGE I INCLUDED IN COST OF STD 701321

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 2
PLAN VIEW

SCALE: VERT. / HORIZ.
DATE

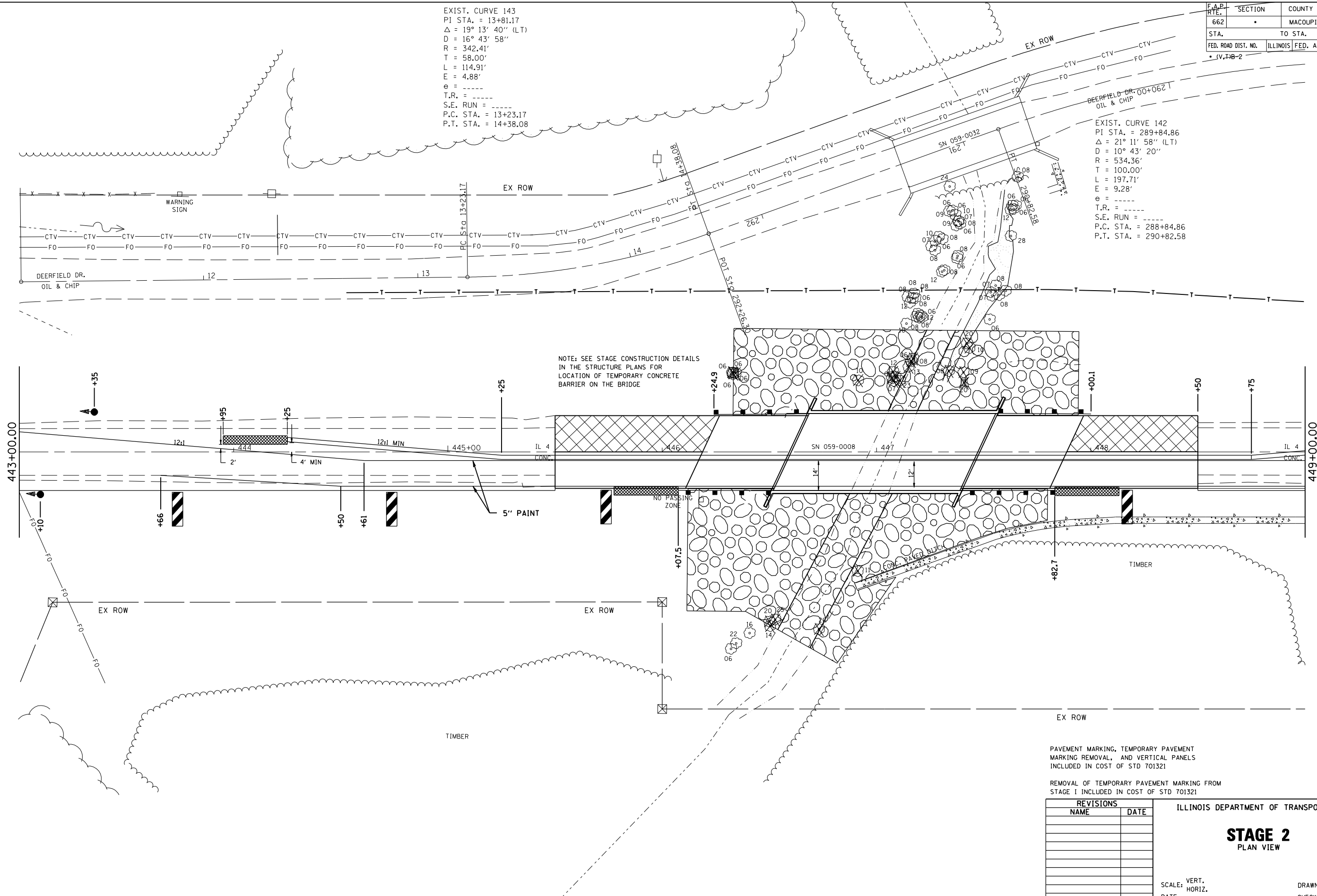
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 REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EXIST. CURVE 143
 PI STA. = 13+81.17
 $\Delta = 19^\circ 13' 40''$ (LT)
 $D = 16^\circ 43' 58''$
 $R = 342.41'$
 $T = 58.00'$
 $L = 114.91'$
 $E = 4.88'$
 $e =$ -----
 $T.R. =$ -----
 $S.E. RUN =$ -----
 $P.C. STA. = 13+23.17$
 $P.T. STA. = 14+38.08$

EXIST. CURVE 142
 PI STA. = 289+84.86
 $\Delta = 21^\circ 11' 58''$ (LT)
 $D = 10^\circ 43' 20''$
 $R = 534.36'$
 $T = 100.00'$
 $L = 197.71'$
 $E = 9.28'$
 $e =$ -----
 $T.R. =$ -----
 $S.E. RUN =$ -----
 $P.C. STA. = 288+84.86$
 $P.T. STA. = 290+82.58$



NOTE: SEE STAGE CONSTRUCTION DETAILS IN THE STRUCTURE PLANS FOR LOCATION OF TEMPORARY CONCRETE BARRIER ON THE BRIDGE

PAVEMENT MARKING, TEMPORARY PAVEMENT MARKING REMOVAL, AND VERTICAL PANELS INCLUDED IN COST OF STD 701321

REMOVAL OF TEMPORARY PAVEMENT MARKING FROM STAGE I INCLUDED IN COST OF STD 701321

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 2
PLAN VIEW

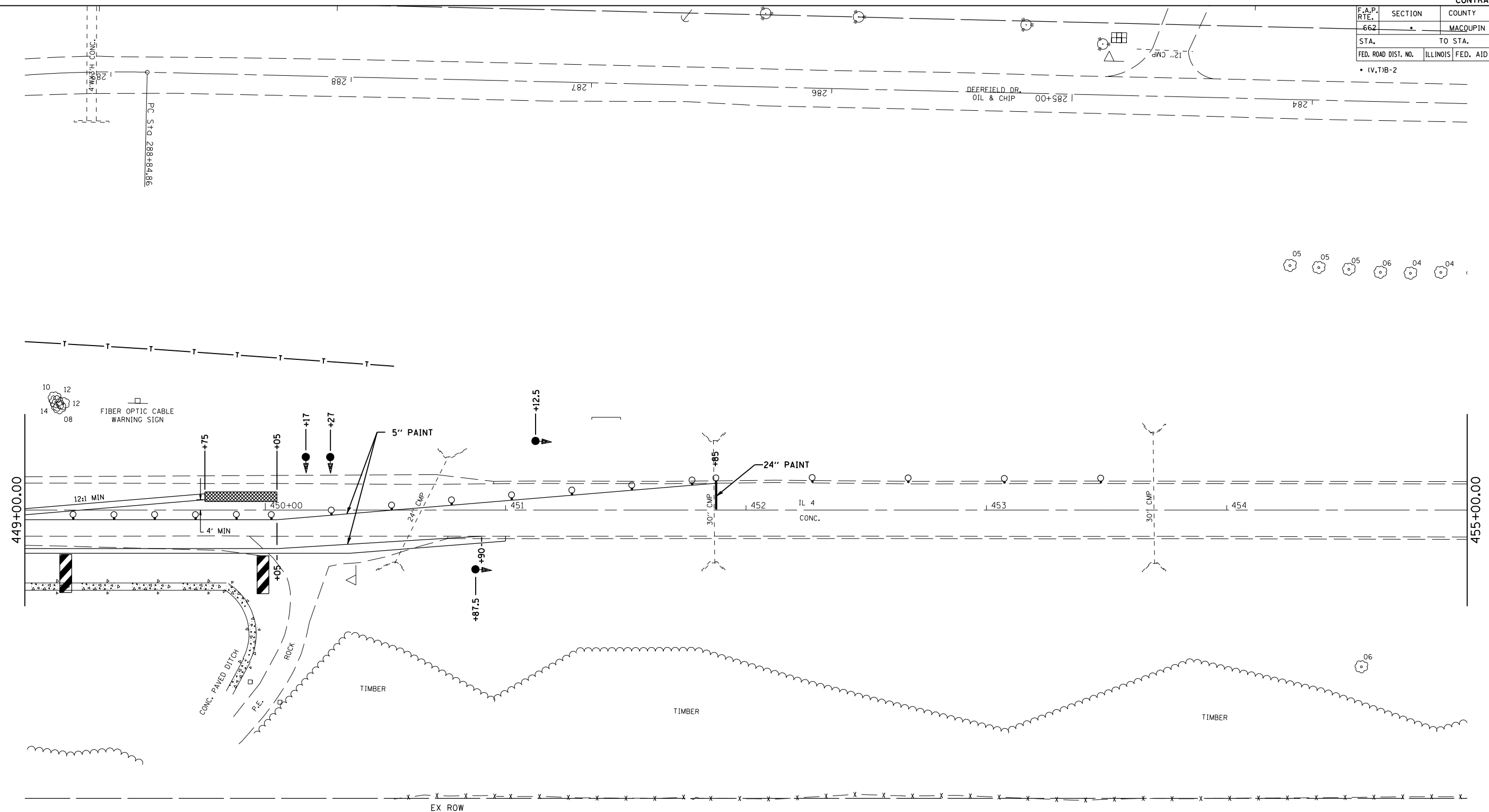
SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 3/13/2007
 FILE NAME = c:\projects\662993\stage2.dgn
 PLOT SCALE = 42.353 1/1 IN.
 REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

(V,T)B-2



PAVEMENT MARKING, TEMPORARY PAVEMENT MARKING REMOVAL, AND VERTICAL PANELS INCLUDED IN COST OF STD 701321

REMOVAL OF TEMPORARY PAVEMENT MARKING FROM STAGE I INCLUDED IN COST OF STD 701321

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 2
PLAN VIEW

SCALE: VERT. / HORIZ.
DATE

DRAWN BY / CHECKED BY

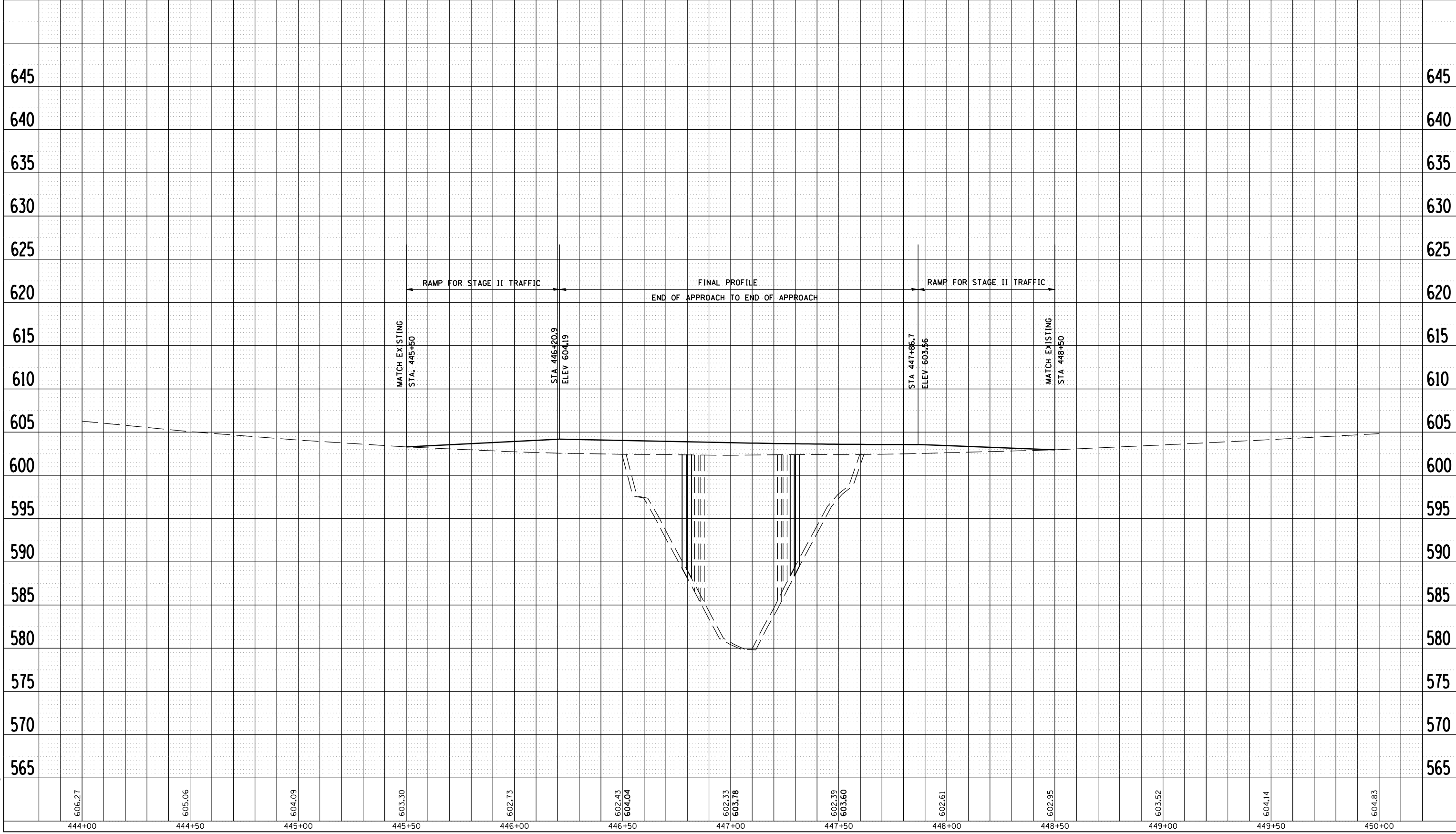
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 PLOT SCALE = 42.353' / IN.
 REFERENCE = #REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	.	MACOUPIN	68	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• (V,T) B2				

PLAN	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK	PLOTTED		
	BY		
	NO.		
	DATE		

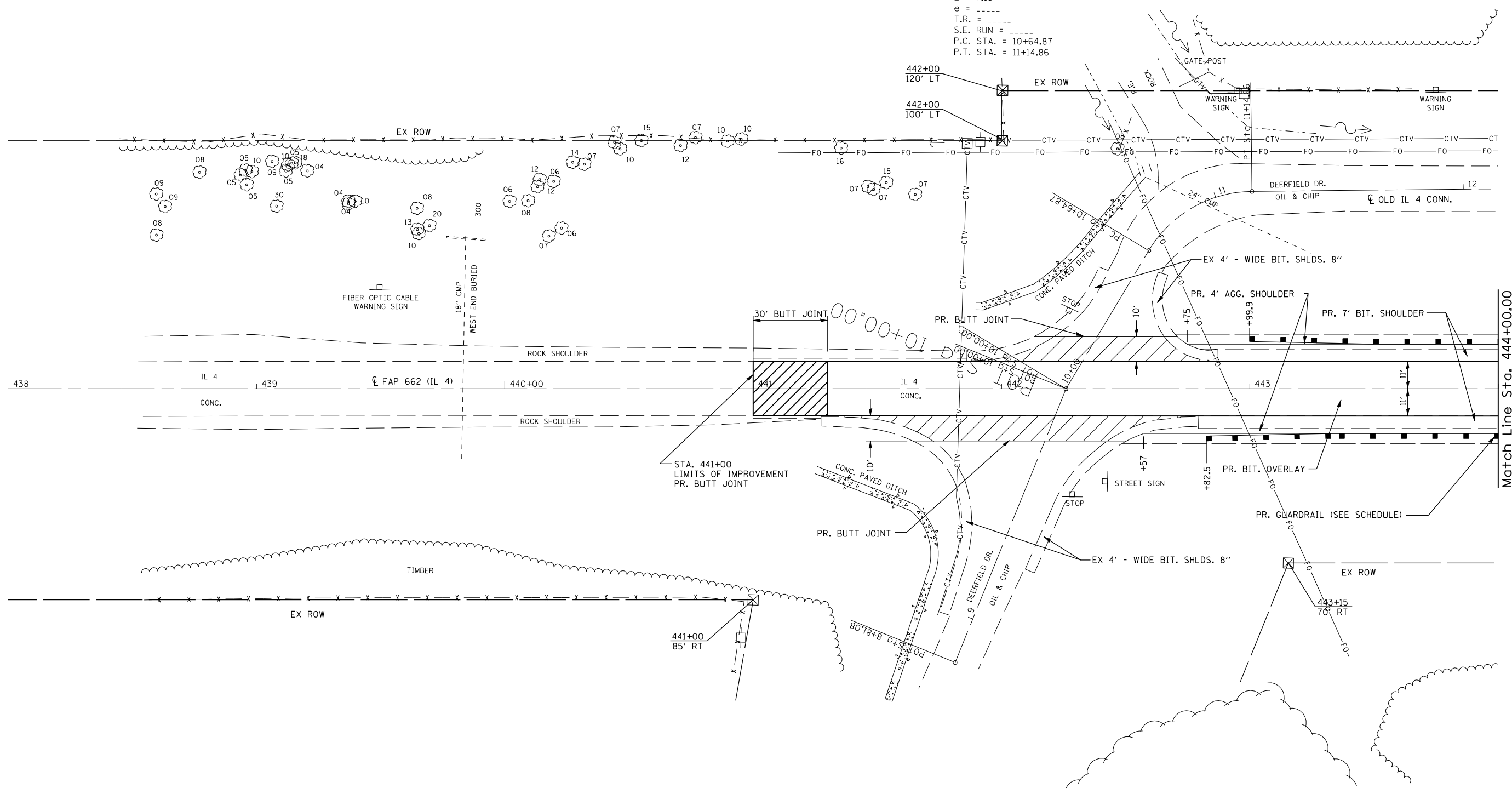
PROFILE	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK	PLOTTED		
	BY		
	NO.		
	DATE		

PLOT DATE = 3/13/2007
 FILE NAME = c:\projects\652889\h1\plan.dgn
 PLOT SCALE = 42.3528' / IN.
 USER NAME = taugh1m-1



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	.	MACOUPIN	68	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE 5144
 PI STA. = 10+92.29
 $\Delta = 58^\circ 27' 58''$ (RT)
 $D = 116^\circ 56' 44''$
 $R = 48.99'$
 $T = 27.42'$
 $L = 49.99'$
 $E = 7.15'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 10+64.87$
 $P.T. \text{ STA.} = 11+14.86$



PLOT DATE = 3/13/2007
 FILE NAME = c:\projects\652685\shplan.dgn
 PLOT SCALE = 42,352 x 1/16"
 USER NAME = laughlin-1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN VIEW
 FAP 662 (IL 4)
 SECTION (V,T) B-2
 MACOUPIN COUNTY

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

Match Line Sta. 444+00.00

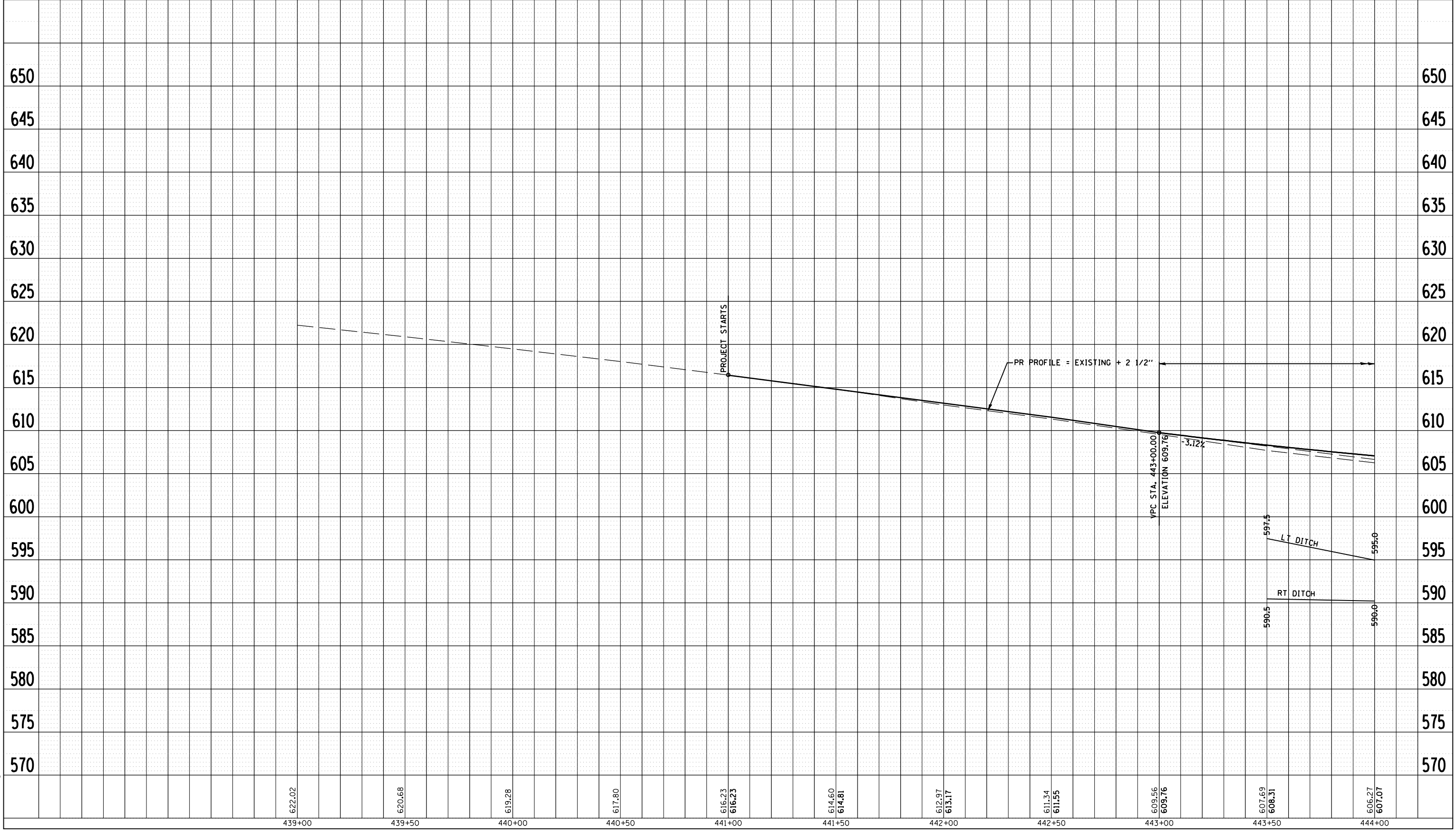
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	21
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

(V,T) B-2

PLAN	SURVEYED	BY	DATE
NO. _____	PLotted		
	Checked		
	By		
	Structure		
	Notations		
	Card		

PROFILE	SURVEYED	BY	DATE
NO. _____	Plotted		
	Checked		
	By		
	Structure		
	Notations		
	Card		

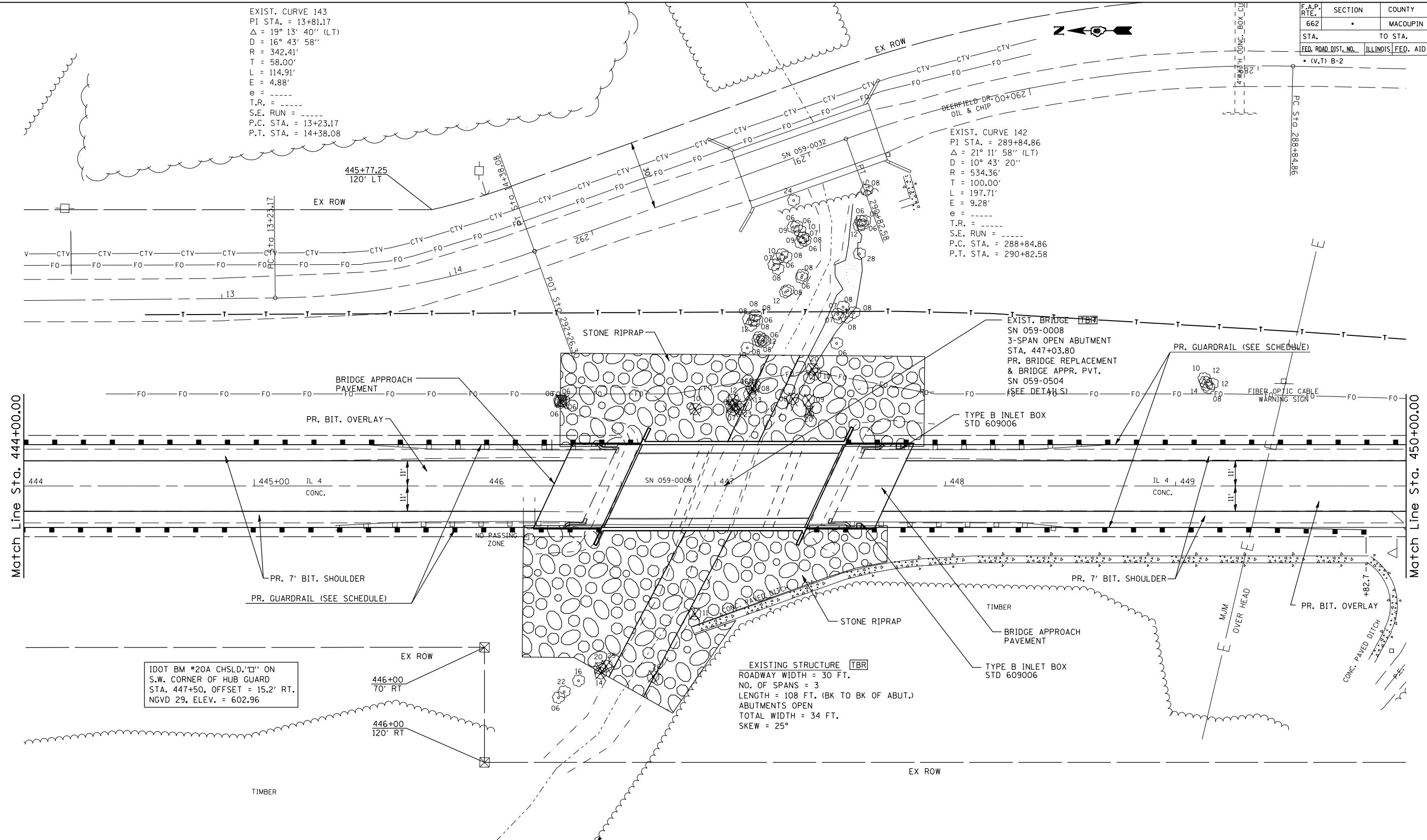
PLOT DATE = 3/13/2007
 FILE NAME = c:\projects\662893\shapr\of1e.dgn
 PLOT SCALE = 42.3528' / IN.
 USER NAME = taugh1m-1



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	22
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		(V,T) B-2		

EXIST. CURVE 143
 PI STA. = 13+81.17
 $\Delta = 19^\circ 13' 40''$ (LT)
 $D = 16^\circ 43' 58''$
 $R = 342.41'$
 $T = 58.00'$
 $L = 114.91'$
 $E = 4.88'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 13+23.17$
 $P.T. STA. = 14+38.08$

EXIST. CURVE 142
 PI STA. = 289+84.86
 $\Delta = 21^\circ 11' 58''$ (LT)
 $D = 10^\circ 43' 20''$
 $R = 534.36'$
 $T = 100.00'$
 $L = 197.71'$
 $E = 9.28'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 288+84.86$
 $P.T. STA. = 290+82.58$



PLOT DATE = 3/13/2007
 FILE NAME = c:\projects\652685\shplan.dgn
 PLOT SCALE = 42.3525' / IN.
 USER NAME = laughlin-1

REVISIONS	
NAME	DATE

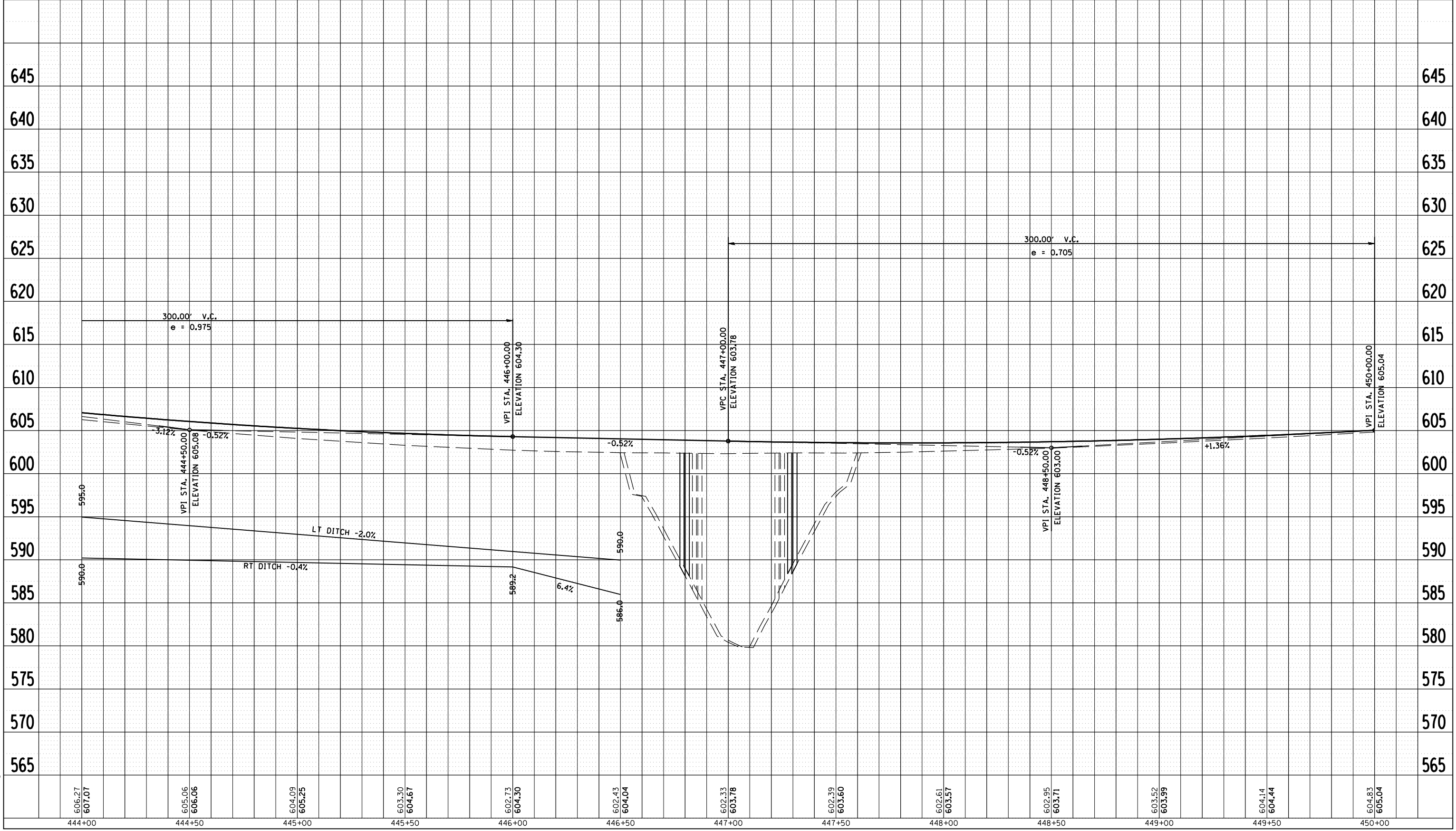
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN VIEW
 FAP 662 (IL 4)
 SECTION (V,T) B-2
 MACOUPIN COUNTY
 SCALE: VERT. _____
 DATE _____ HORIZ. _____
 DRAWN BY _____
 CHECKED BY _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• (V,T) B2				

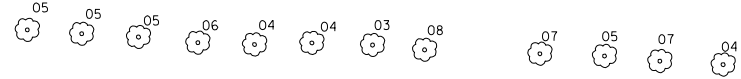
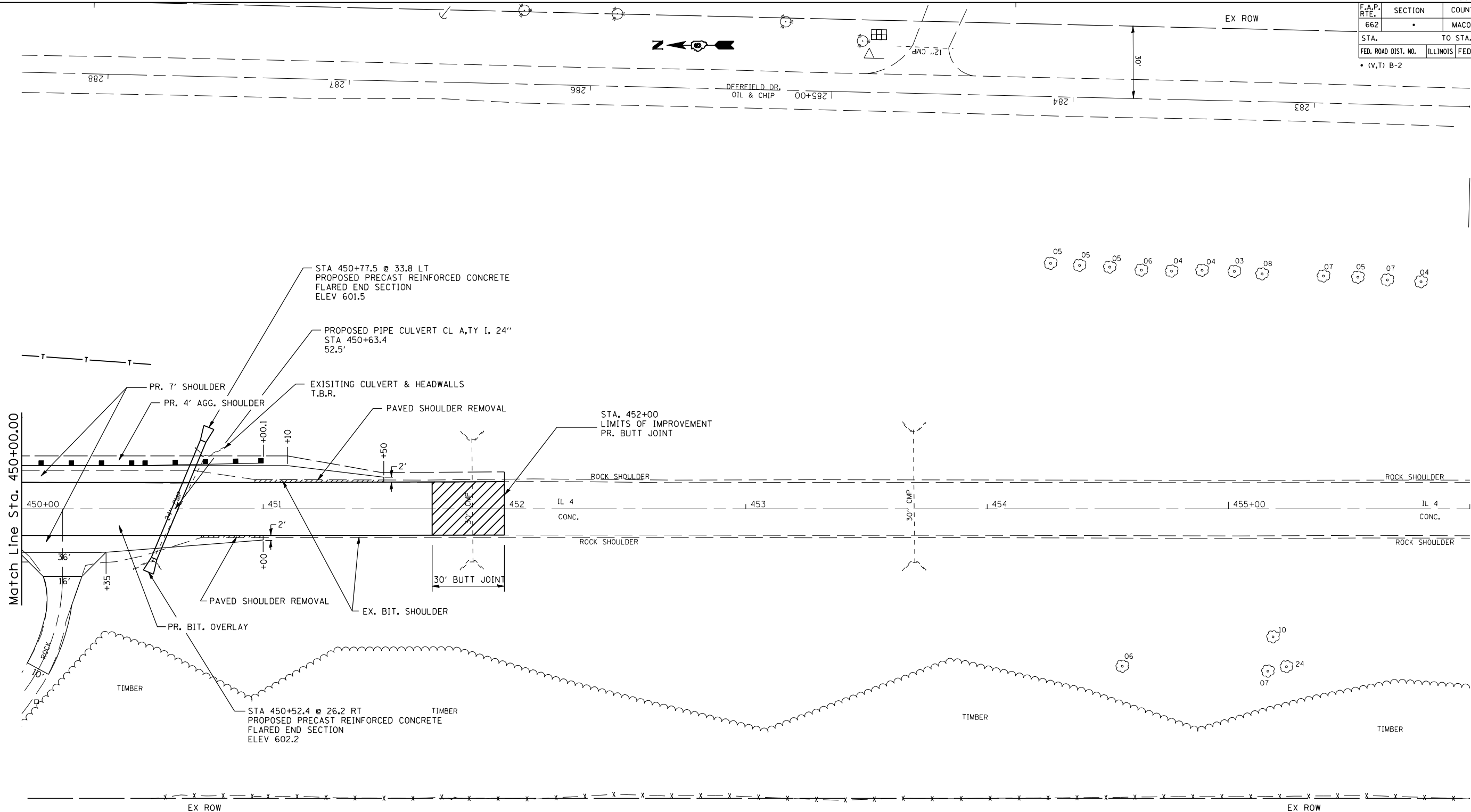
PLAN	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK	PLOTTED		
	PT. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK	PLOTTED		
	BY HAND NOTED		
	STRUCTURE NOTATIONS CHK'D		

PLOT DATE = 3/13/2007
 FILE NAME = c:\p\projects\662893\h1plan.dgn
 PLOT SCALE = 42.3528' / IN.
 USER NAME = taugh1m-1



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662		MACOUPIN	68	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• (V,T) B-2				



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN VIEW
 FAP 662 (IL 4)
 SECTION (V,T) B-2
 MACOUPIN COUNTY

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

PLOT DATE = 3/13/2007
 FILE NAME = c:\projects\652685\shplan.dgn
 PLOT SCALE = 42,3525 / IN.
 USER NAME = laughlin-1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (V,T) B-2				

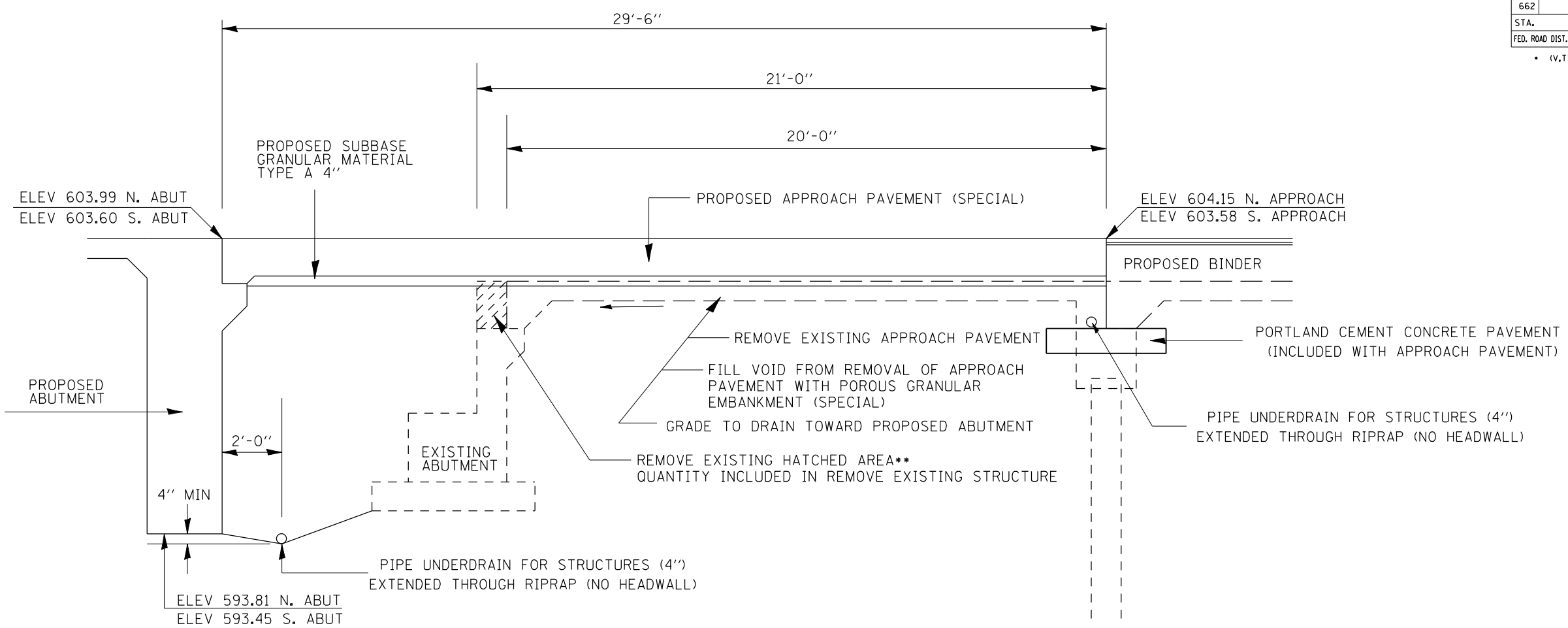
PLAN	SURVEYED	BY	DATE
NOTE BOOK NO. _____	PLOTTED _____	_____	_____
_____	CHKD BY _____	_____	_____
_____	DATE _____	_____	_____

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO. _____	PLOTTED _____	_____	_____
_____	CHKD BY _____	_____	_____
_____	DATE _____	_____	_____

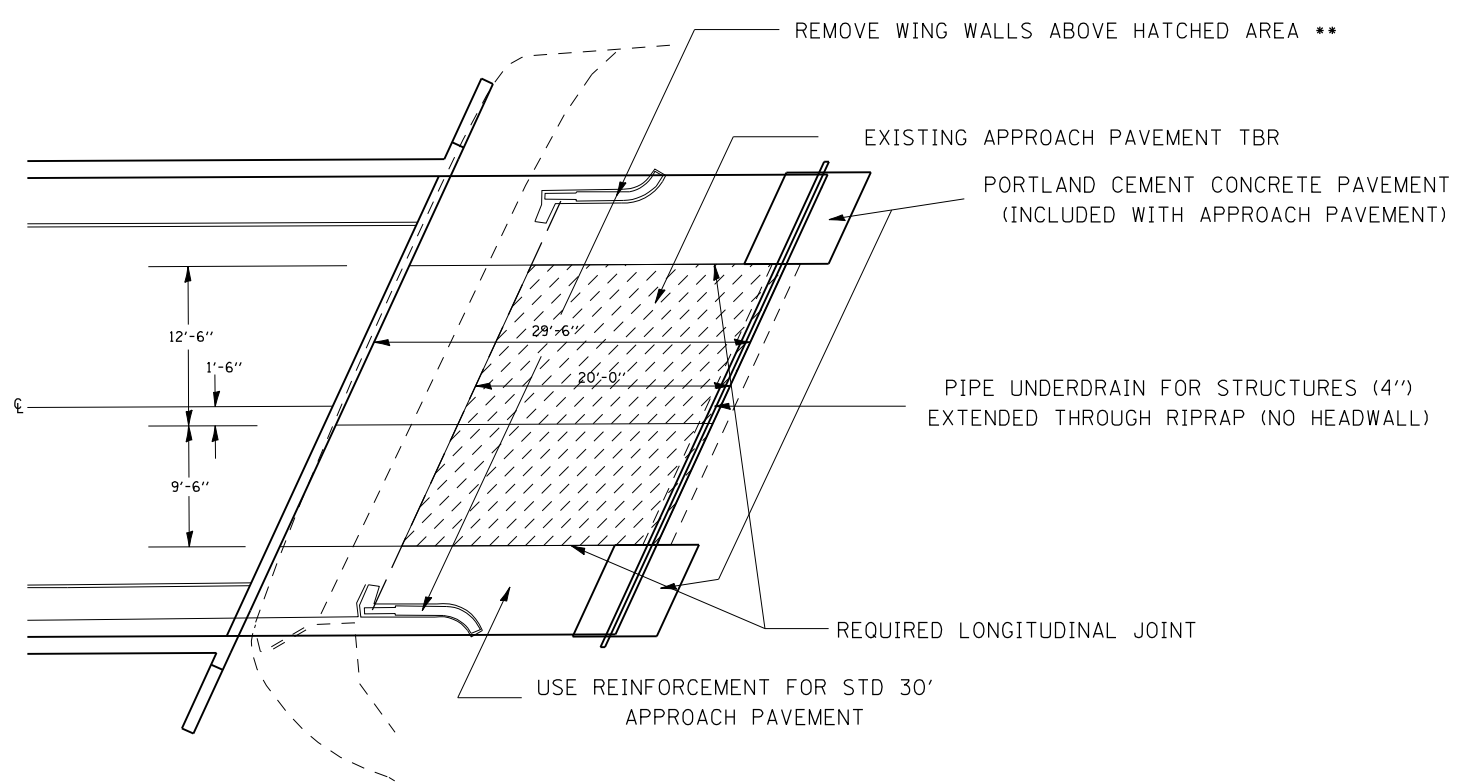
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 FILE NAME = c:\projects\652889\shplan.dgn
 PLOT SCALE = 42.3528' / IN.
 USER NAME = taugh1m-1



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	•	MACOUPIN	68	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (V.1)B-2				



** EXISTING WINGWALLS ABOVE THE BOTTOM OF THE HATCHED AREA TO BE REMOVED. QUANTITY INCLUDED IN REMOVE EXISTING STRUCTURE



REVISIONS	
NAME	DATE

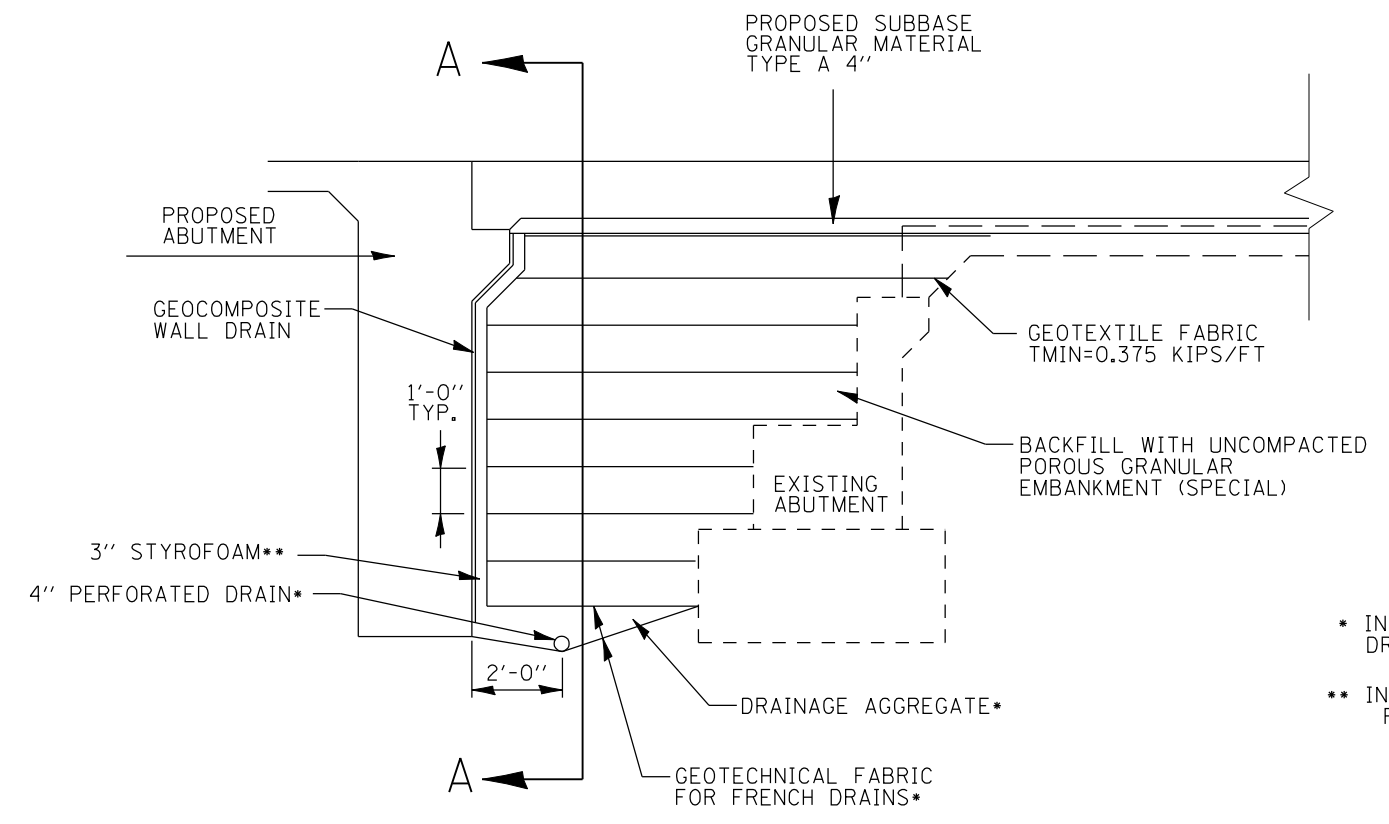
ILLINOIS DEPARTMENT OF TRANSPORTATION
 BRIDGE APPROACH
 PAVEMENT SPECIAL
 HONEY CREEK
 FAP 662 (IL 4)

SCALE: VERT. DRAWN BY KPG
 HORIZ. CHECKED BY JGM
 DATE 03-06-07

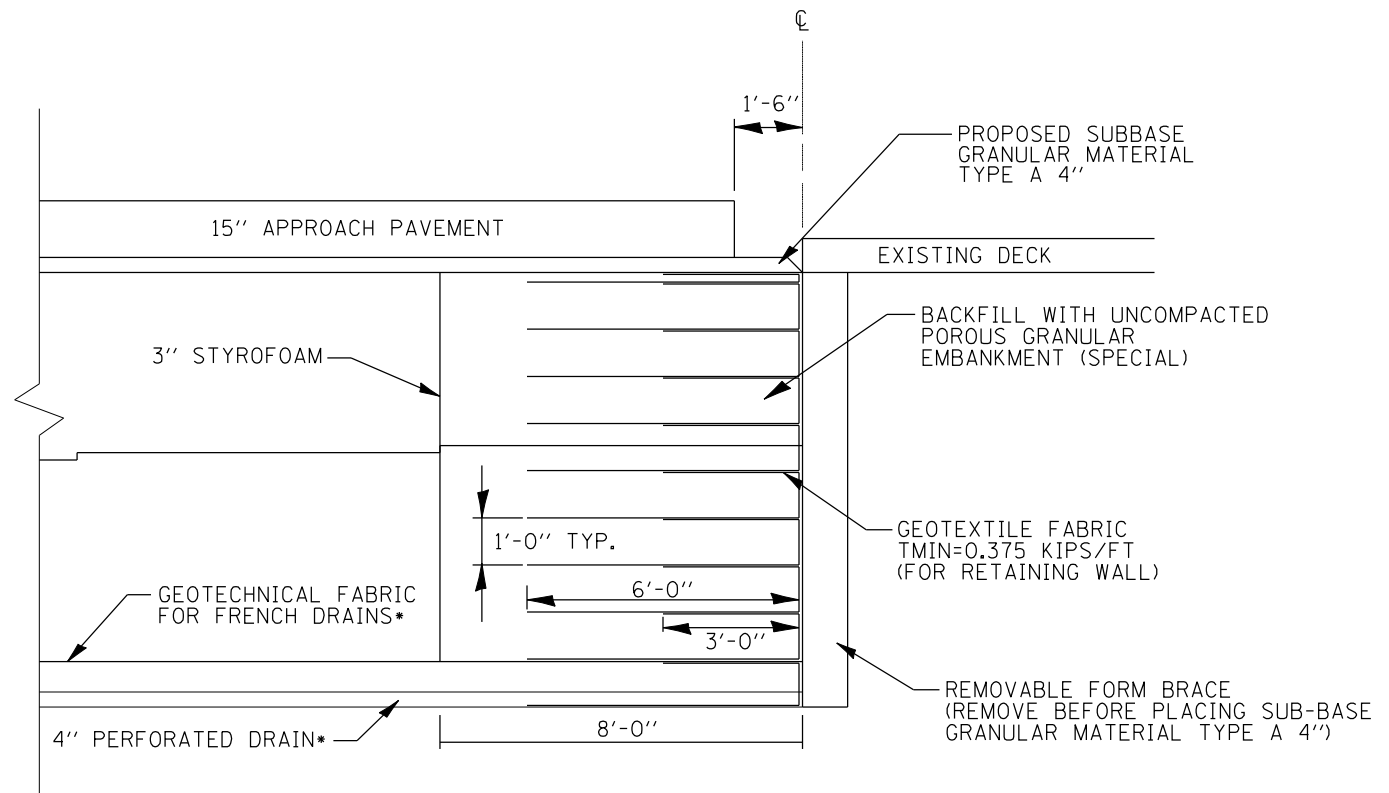
ct:\projects\0652605\sh\de\ta\ls.dgn
 3/13/2007
 *REF01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	•	MACOUPIN	68	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (V.1)B-2



- * INCLUDED IN COST OF PIPE UNDER DRAINS FOR STRUCTURES
- ** INCLUDED IN COST FOR GEOTEXTILE RETAINING WALL



SECTION A-A

REVISIONS	
NAME	DATE

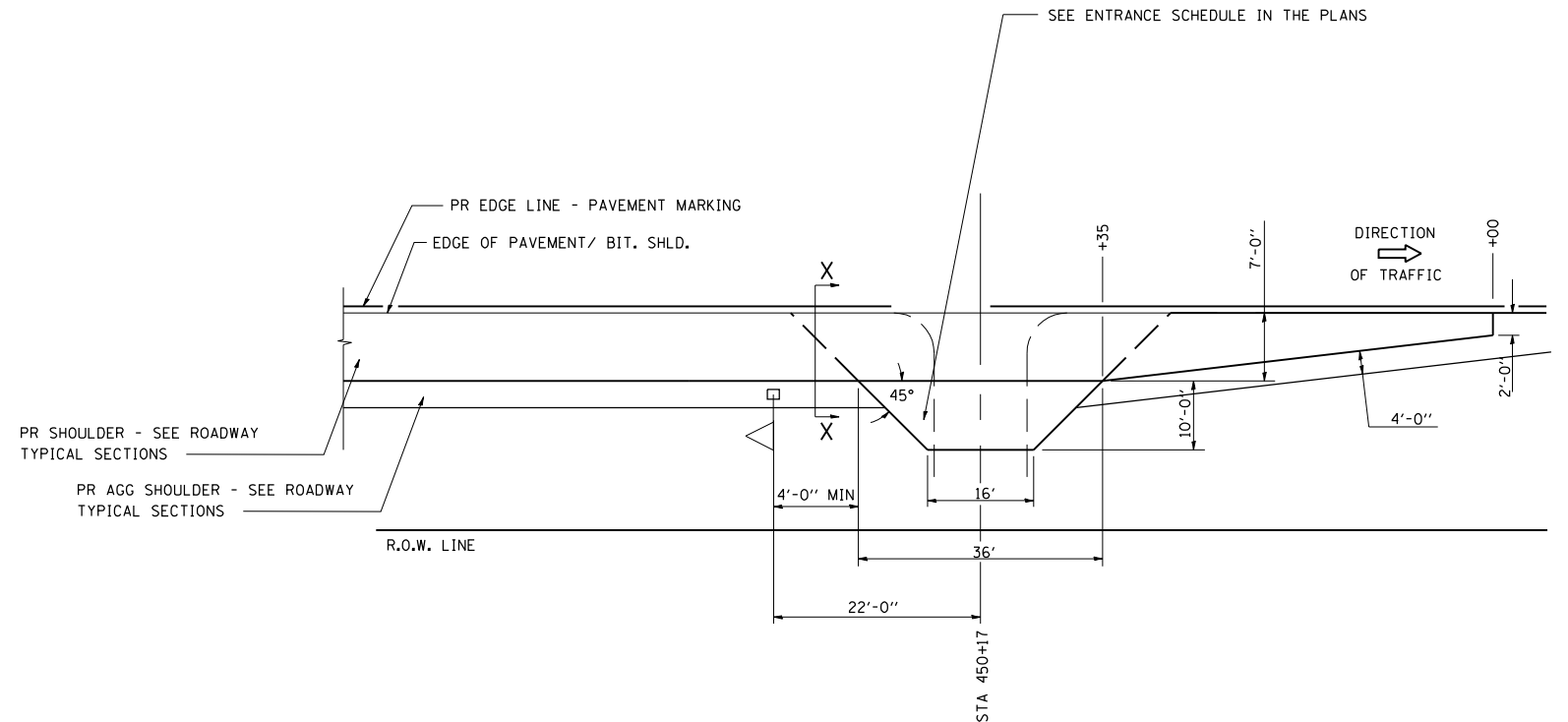
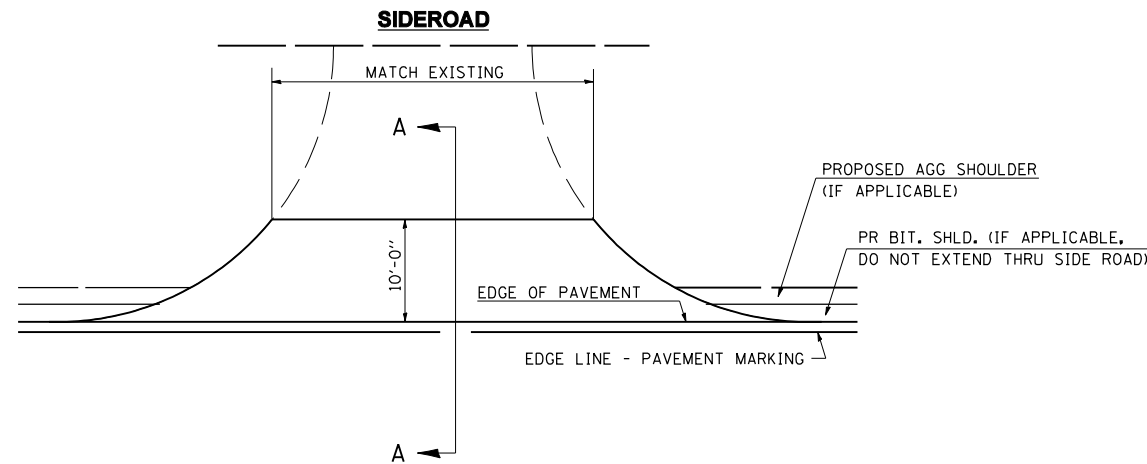
ILLINOIS DEPARTMENT OF TRANSPORTATION
 GEOTEXTILE RETAINING WALL
 DETAIL
 HONEY CREEK
 FAP 662 (IL 4)

SCALE: VERT. DRAWN BY MAW
 HORIZ. CHECKED BY MAA
 DATE 04-21-03

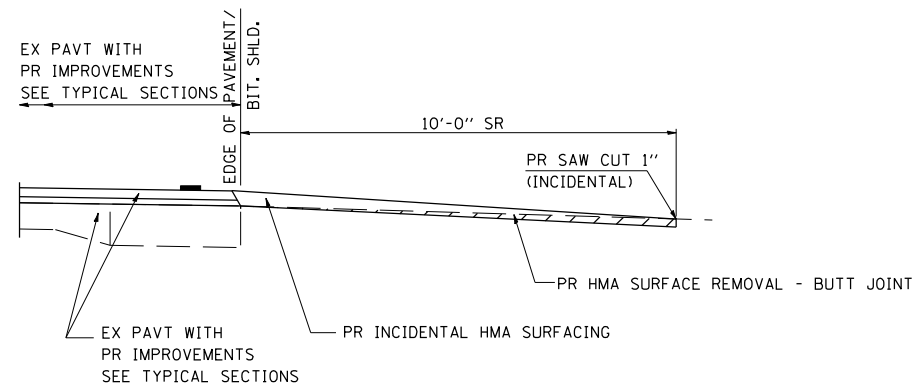
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 3/13/2007
 REF01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(V,T)B-2	MACOUPIN	68	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

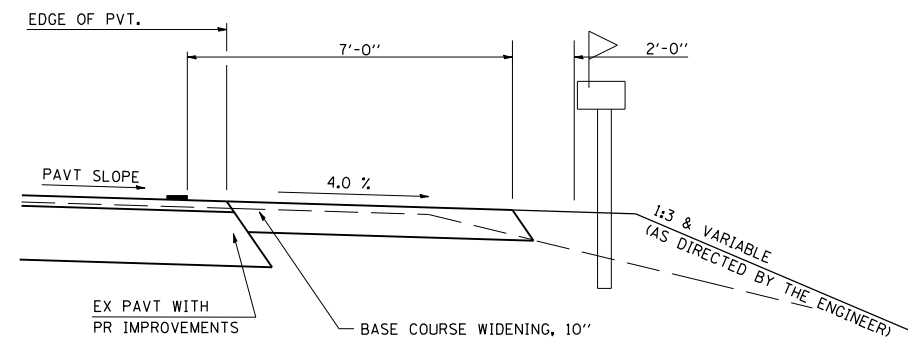
DETAILS OF MAILBOX TURNOUTS



PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



SECTION A-A FOR EX SIDE ROAD



SECTION X-X THRU MAILBOX TURNOUT

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

REVISIONS	
NAME	DATE
JCN	2/19/03
JCN	4/01/04

ILLINOIS DEPARTMENT OF TRANSPORTATION

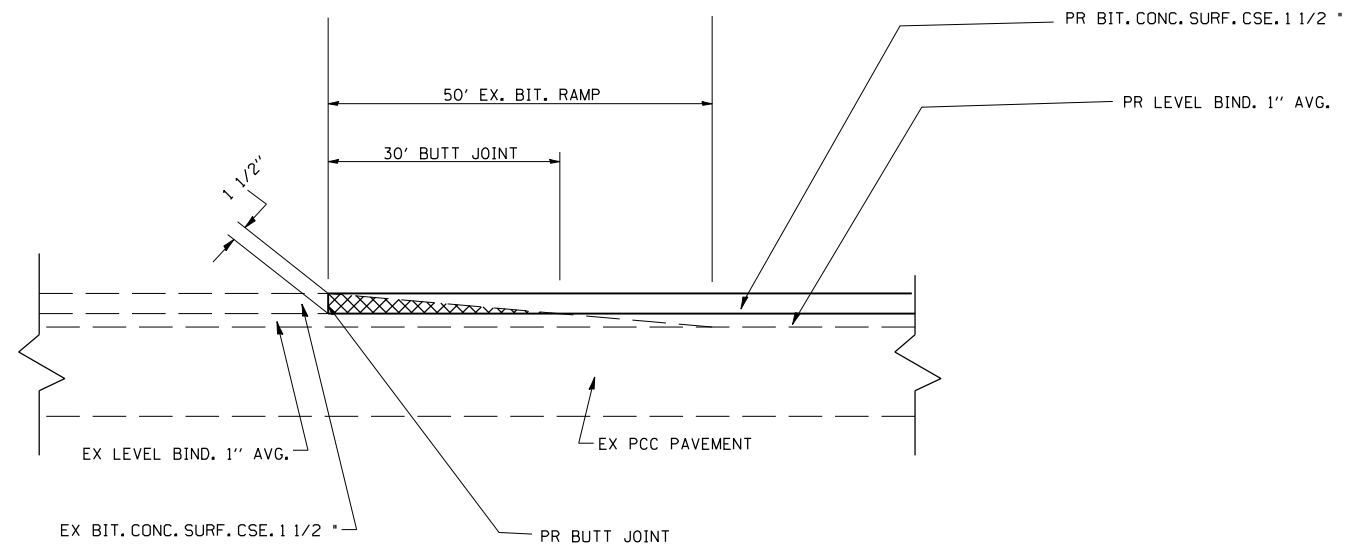
**ENTRANCE DETAIL
450+17 RT.**

SCALE: VERT.
HORIZ.
DATE: FEBRUARY 23, 1999

DRAWN BY CADD
CHECKED BY JCN

PLOT DATE = 3/13/2007
FILE NAME = c:\projects\6652685\shdetail.dgn
PLOT SCALE = 4.23528 / IN.
USER NAME = laughlin-1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(V,T)B-2	MACOUPIN	68	29
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BIT. RAMP DETAIL

STA 441+00.00 TO STA 441+50.00
 STA 451+50.00 TO STA 452+00.00

PLOT DATE : 3/13/2007
 FILE NAME : c:\projects\652695\shdetail.dgn
 PLOT SCALE : 1/8"=1'-0" / IN.
 USER NAME : laughlin-1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

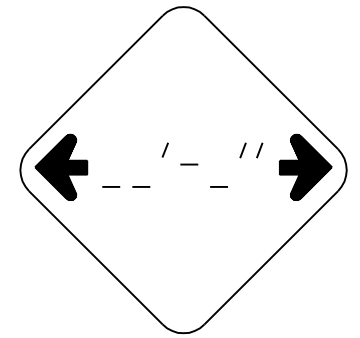
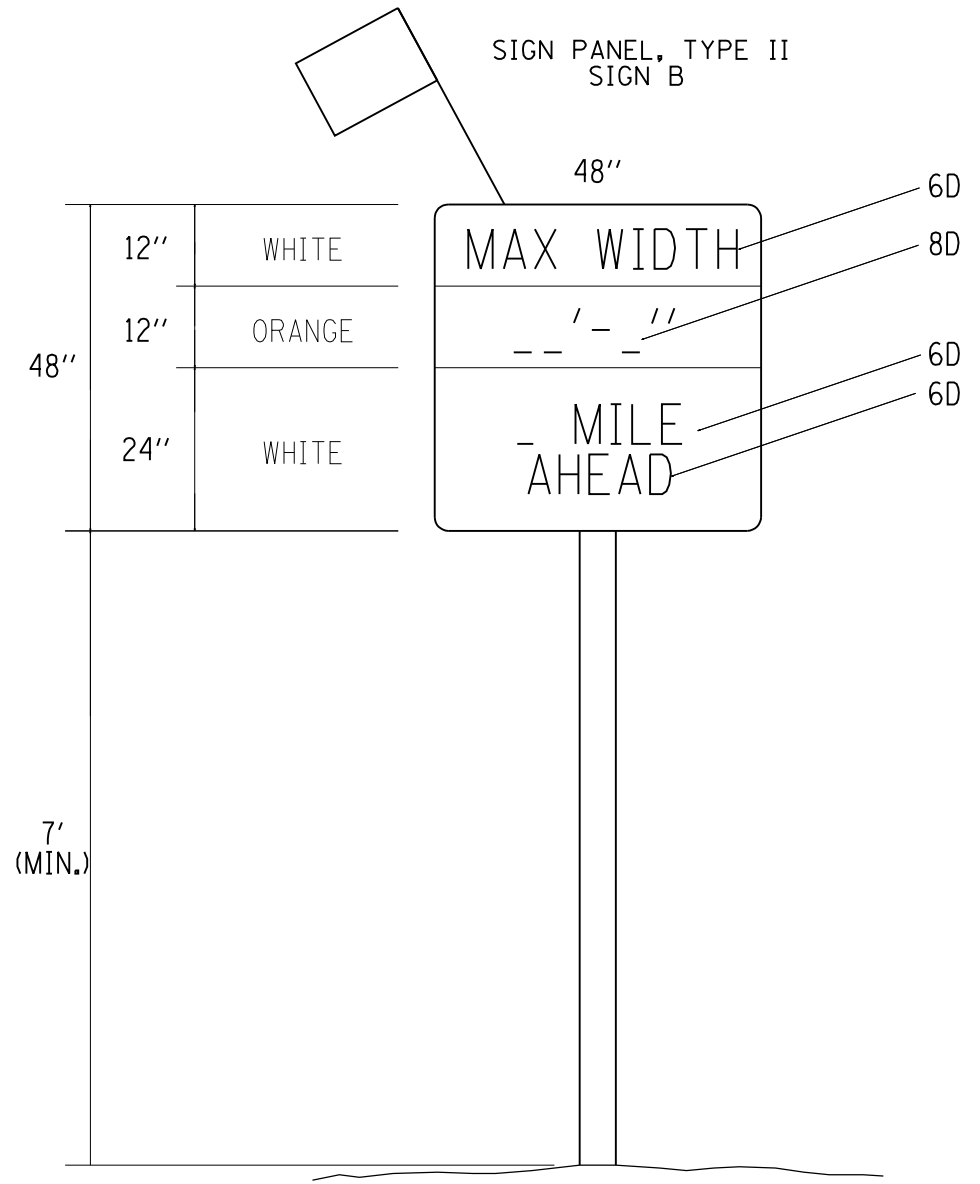
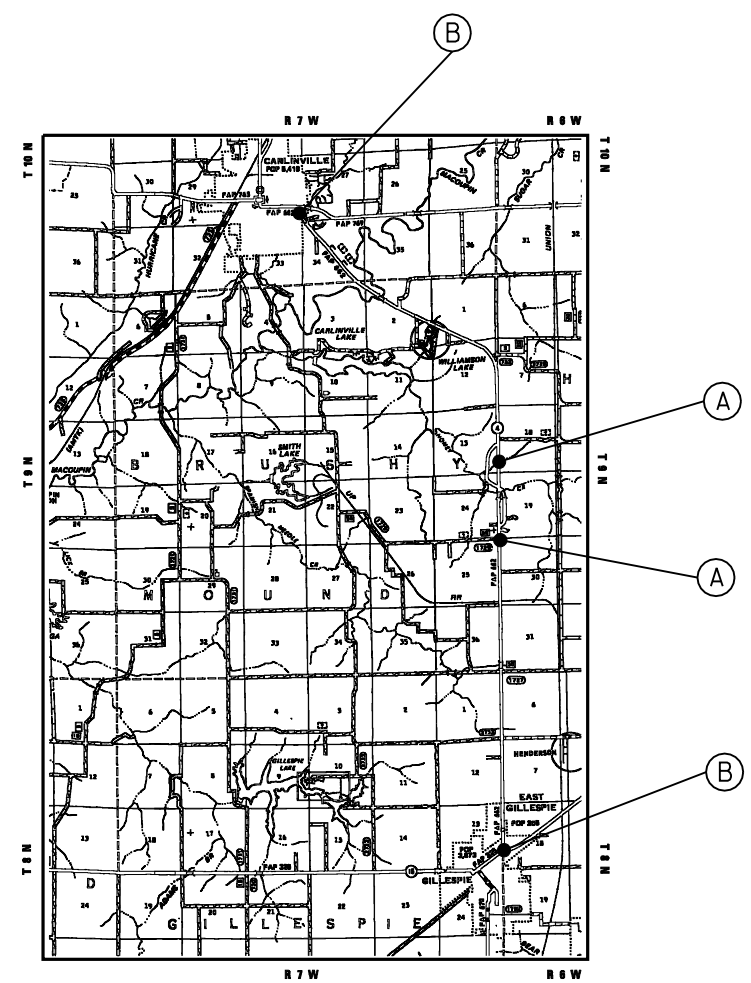
BUTT JOINT DETAILS

SCALE: VERT.
 HORIZ.
 DATE

DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	30
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (V,T)B-2



W12-2(O)-48
SIGN A

SIGN A - 2 SIGNS - (W12-2(O)-48) ARE TO BE PLACED AT EACH END OF THE PROJECT JUST BEFORE SIGNING FOR TC&P STANDARD 701321 SIGNING.

SIGN B - TO BE PLACED AT THE JUNCTIONS OF IL 4 AND IL 16 IN GILLESPIE AND IL 4 AND IL 108 IN CARLINVILLE.

THESE SIGNS SHALL BE INSTALLED WITH FLAGS AND WILL BE PAID FOR AS PER LUMP SUM.

SIGNS SHALL BE PROVIDED BY THE DISTRICT 6 SIGN SHOP.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

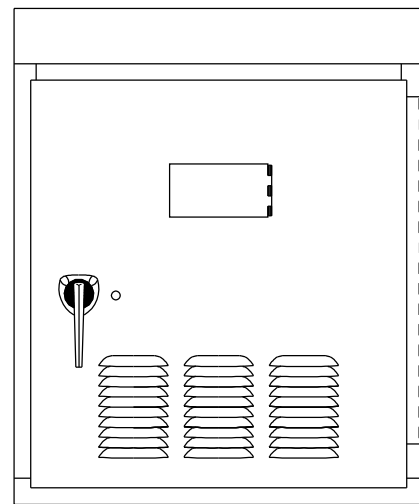
WIDTH RESTRICTION SIGNAGE

SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

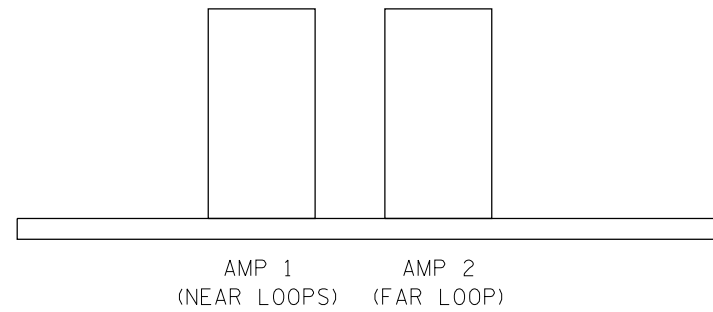
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	*	MACOUPIN	68	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (V,T) B-2



Temporary Controller Cabinet

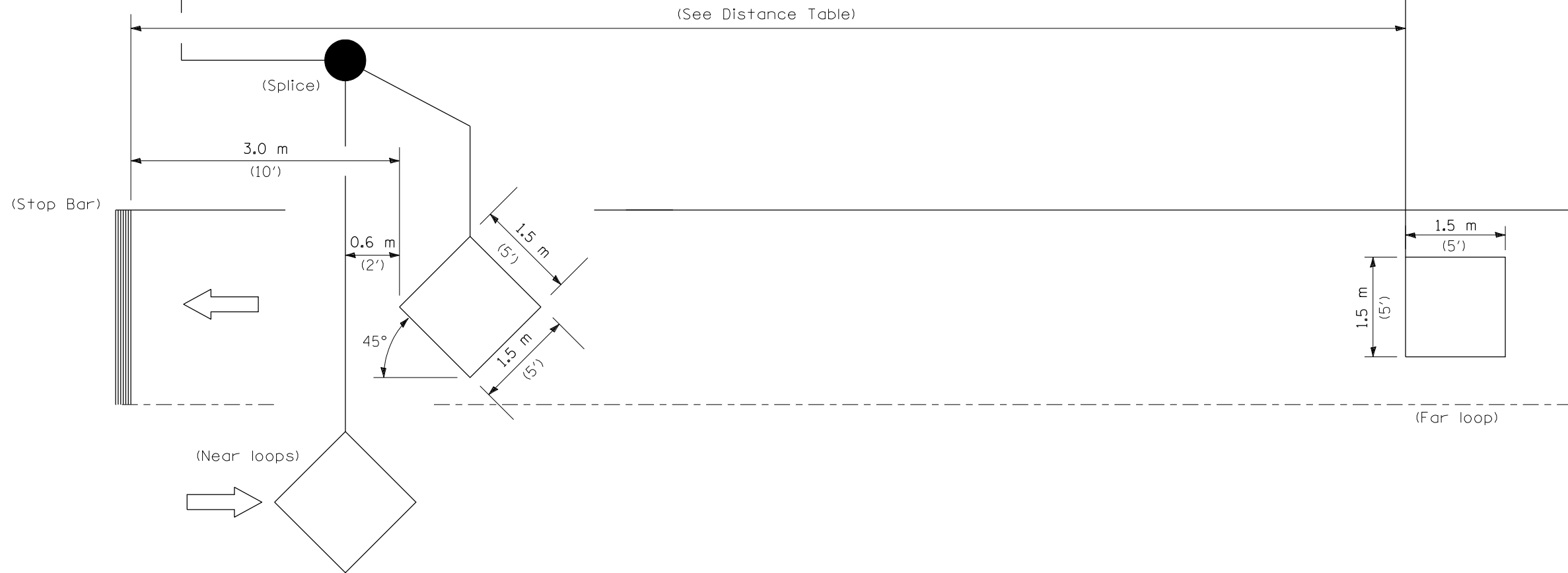
DETECTOR AMPLIFIER NOTES



AMP 1: DELAY = 8 SECONDS
 DELAY SHALL BE INHIBITED DURING GREEN

AMP 2: NO DELAY

ADVISORY SPEED (MPH)	DISTANCE FROM STOP BAR (FT.)
30 OR LESS	220
35	260
40	300
45	330
50	370
55	400



NOTE: All loops centered in lane.

INDUCTION LOOP DETECTOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TEMPORARY BRIDGE TRAFFIC SIGNAL
 LOOP PLACEMENT DETAIL SHEET**

SCALE: VERT. NONE
 HORIZ. NONE
 DATE: 06/16/04

DRAWN BY: KDA
 CHECKED BY:

Bench Mark: IDOT BM#20A Chsld. "□" on SW corner of hub guard. S.N. 059-0008 Sta. 447+50, offset = 15.2' RT. NGVD 29, Elev. 602.96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure: S.N. 059-0008 built in 1961 as SBI Rte. 4, Section (V,T) B-1 at Sta. 447+03.8.
The superstructure consists of a reinforced concrete deck on wide flange beams. The substructure consists of pile bent abutments and 2 single hammerhead piers supported on spread footings. The Bk. to Bk. Abut. dimension measures 108'-0" while the O.-O. deck width measures 33'-8". The structure is to be removed and replaced using stage construction.

No salvage

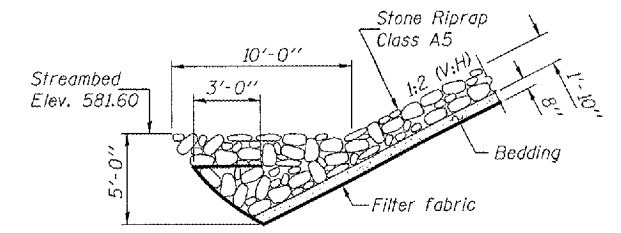
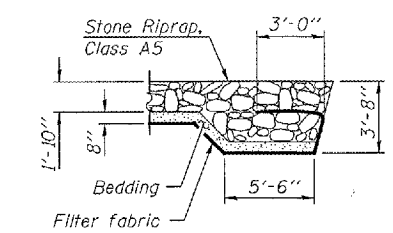
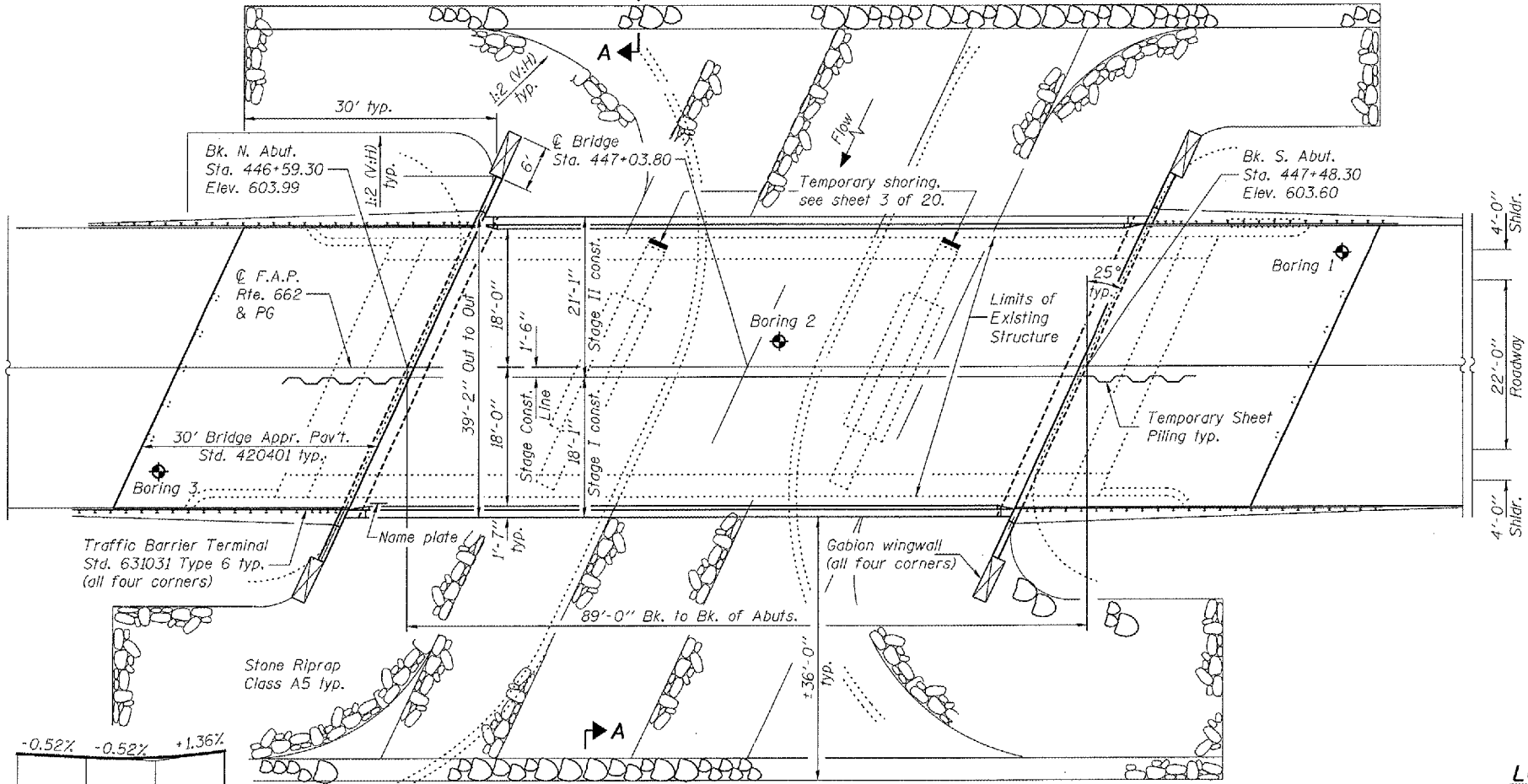
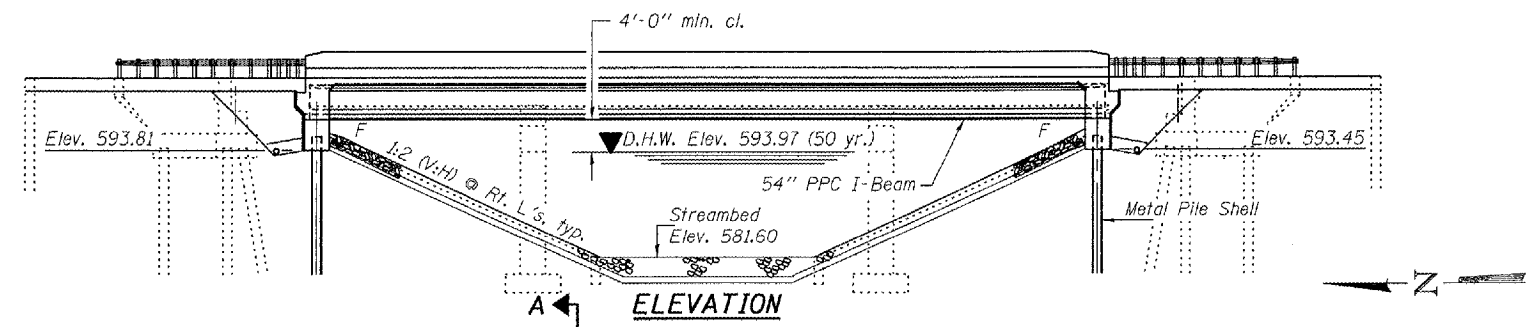
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. 1
FAP 662	(V,T)B-2	MACOUPIN	68	32	20 SHEETS
FED. ROAD DIST. NO. 7	FULLSCALE	FED. AID PROJECT	Contract #72993		

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 Stage Construction Details
- 3 Temporary Shoring Details of Existing Piers
- 4 Temporary Concrete Barrier Details
- 5-6 Top of Slab Elevations
- 7 Superstructure
- 8 Superstructure Details
- 9 Diaphragm Details
- 10 Framing Plan
- 11-12 Beam Details
- 13 North Abutment
- 14 South Abutment
- 15 Gabion Wingwall Details
- 16 Metal Shell Pile Details
- 17 Bar Splicer Details
- 18-20 Boring Logs

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (IL Modified). See Special Provisions.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
Reinforcement bars designated (E) shall be epoxy coated.
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
The Contractor shall drive test piles to 110% of the nominal required bearing specified in the production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.



STONE RIPRAP ANCHOR DETAIL

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		269.0	269.0
Stone Riprap, Class A5	Sq. Yd.		1465	1465
Filter Fabric	Sq. Yd.		1525	1525
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		260	260
Concrete Structures	Cu. Yd.		52.3	52.3
Concrete Superstructure	Cu. Yd.	144.5		144.5
Bridge Deck Grooving	Sq. Yd.	335		335
Protective Coat	Sq. Yd.	431		431
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Foot	524.5		524.5
Reinforcement Bars, Epoxy Coated	Pound	25920	6200	32120
Furnishing Metal Shell Piles 14"	Foot		931	931
Driving Piles	Foot		931	931
Test Pile Metal Shells	Each		2	2
Temporary Sheet Piling	Sq. Ft.		595	595
Name Plates	Each	1		1
Bar Splicers	Each	331	24	355
Gabions	Cu. Yd.		30.7	30.7
Pipe Underdrain for Structures, 4"	Foot		176	176
Geocomposite Wall Drain	Sq. Yd.		113	113
Temporary Shoring	Each		2	2

STATION 447+03.80
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 662 SEC. (V,T)B-2
LOADING HL93
STRUCTURE NO. 059-0504

NAME PLATE
See Std. 515001

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2004 AASHTO LRFD with 2005 & 2006 Interims

DESIGN STRESSES

FIELD UNITS

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

$f_c = 6,000$ psi
 $f_{ci} = 5,000$ psi
 $f_s = 270,000$ psi ($1/2$ " ϕ low lax. strands)
 $f_{si} = 201,960$ psi ($1/2$ " ϕ low lax. strands)

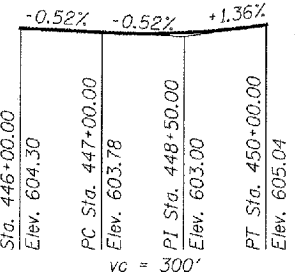
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 6.7%
Site Coefficient (S) = 1.5

WATERWAY INFORMATION

Drainage Area = 14.5 sq. mi. Exist. Low Grade Elev. 602.40 @ Sta. 447+08.8
Prop. Low Grade Elev. 603.58 @ Sta. 447+60

Flood	Freq. Yr.	Q	Opening Sq. Ft.		Not. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	50	4020	534	652	593.97	0.69	0.20	593.52	593.03	
Base	100	4629	562	682	594.37	0.92	0.34	593.75	593.17	
Overtopping										
Max. Calc.	500	6099	622	748	595.22	1.56	0.76	594.39	593.59	



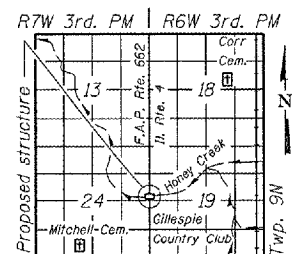
PROFILE GRADE

DESIGNED	<i>Phyo P.</i>
CHECKED	<i>Nguyen S.</i>
DRAWN	<i>h.t. duong</i>
CHECKED	<i>DPN AIB</i>

EXAMINED *Thomas J. ...*
PASSED *Robert S. ...*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF GRADGES AND STRUCTURES



EXPIRES 11-30-2008



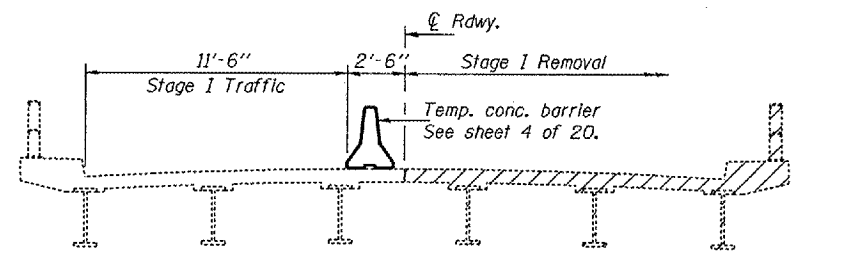
LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 4 OVER
HONEY CREEK
F.A.P. RT. 662 SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

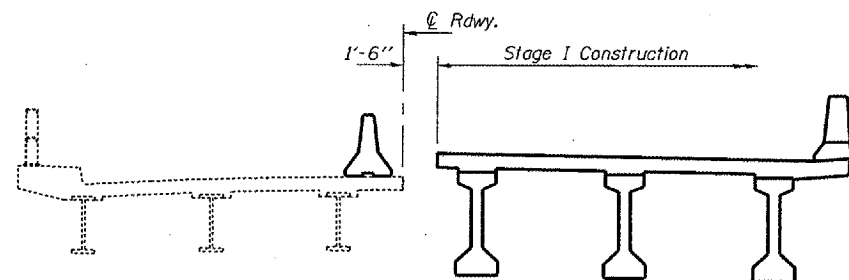
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	DATE	SHEET NO. 2
FAP 662	(V.T)B-2	MACOUPIN	68	33	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

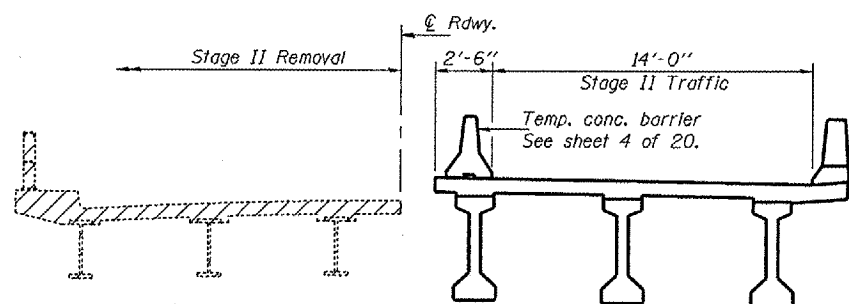
Contract #72993



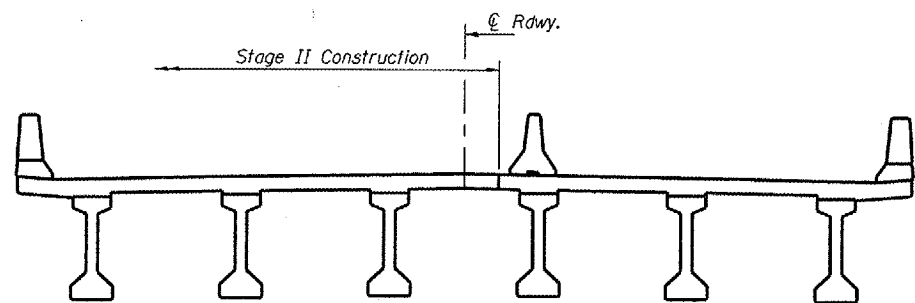
***STAGE I REMOVAL



STAGE I CONSTRUCTION



***STAGE II REMOVAL



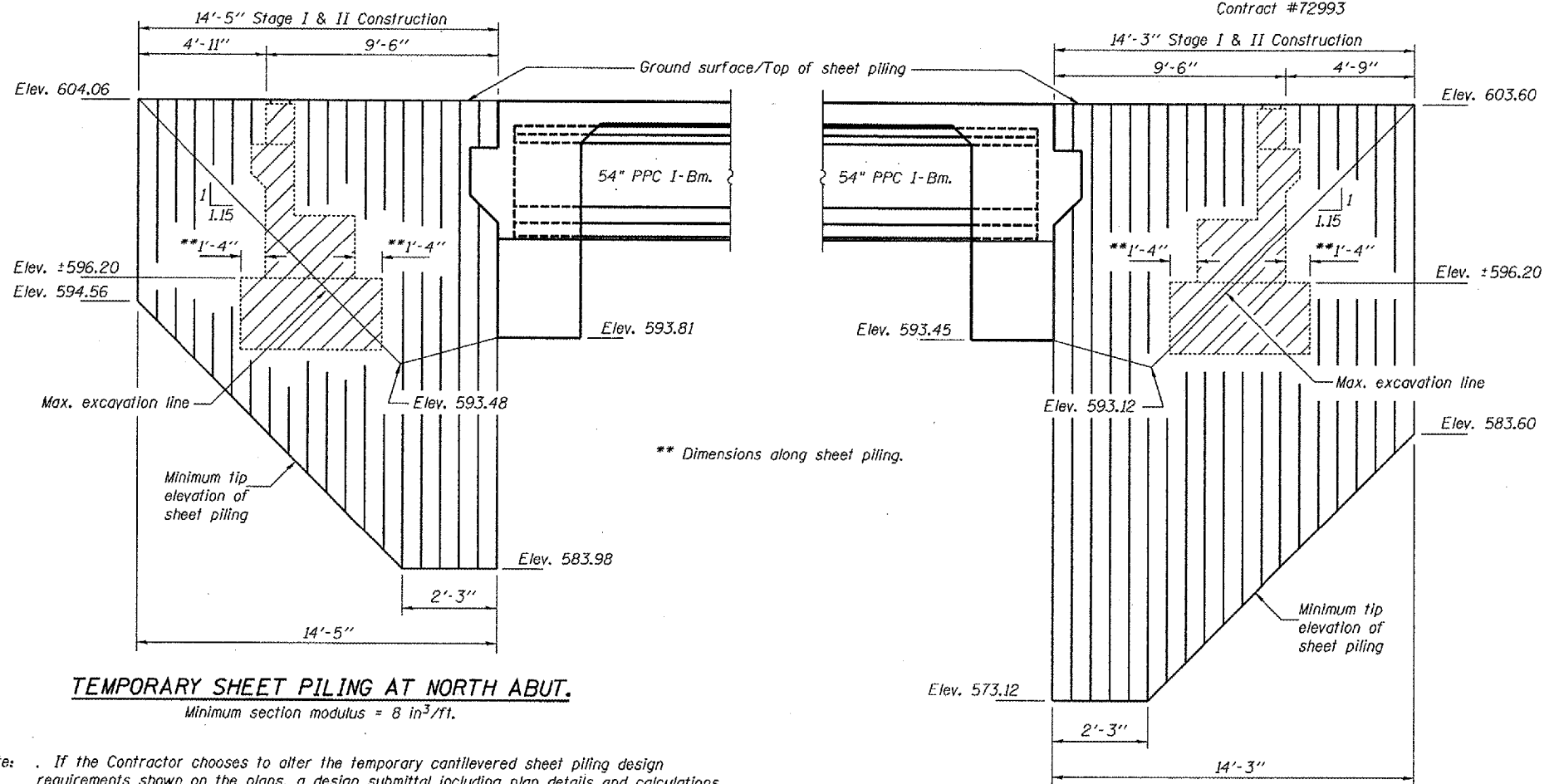
STAGE II CONSTRUCTION

*** Stage removal lines shown are for superstructure and abutments.
Stage removal lines for existing piers are different, see sheet 3 of 20.

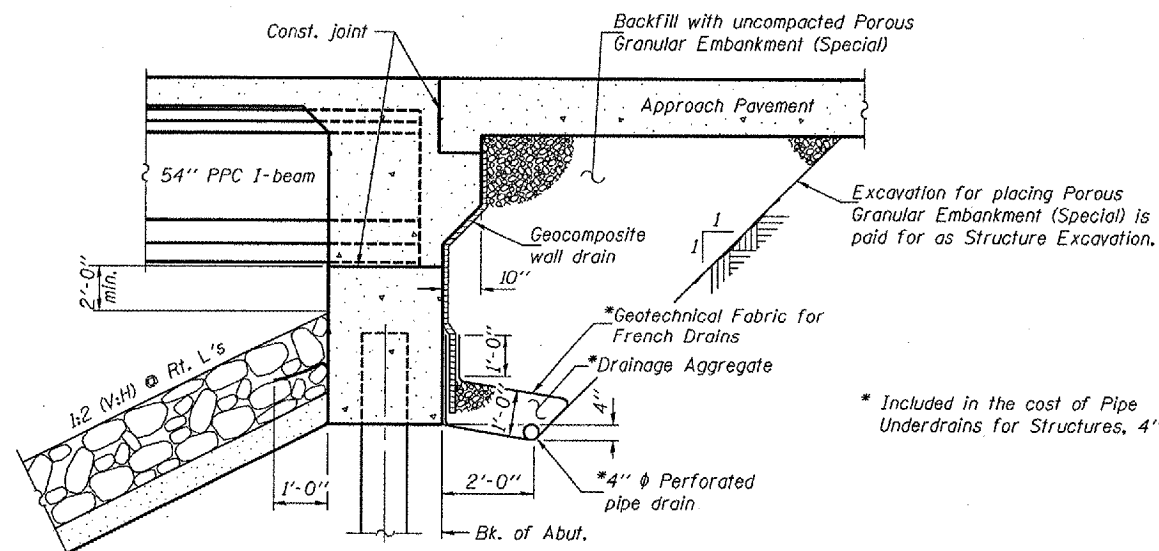
Notes: Hatched area indicates Removal of Existing Structures.
For quantity of Temporary Concrete Barrier, see Roadway Plans.
All staging cross sections are looking south.

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	AJB/DPN

Jan 23, 2007
EXAMINED *Thomas J. Damagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



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



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

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 Std. Spec's. and Highway Standard 60110).

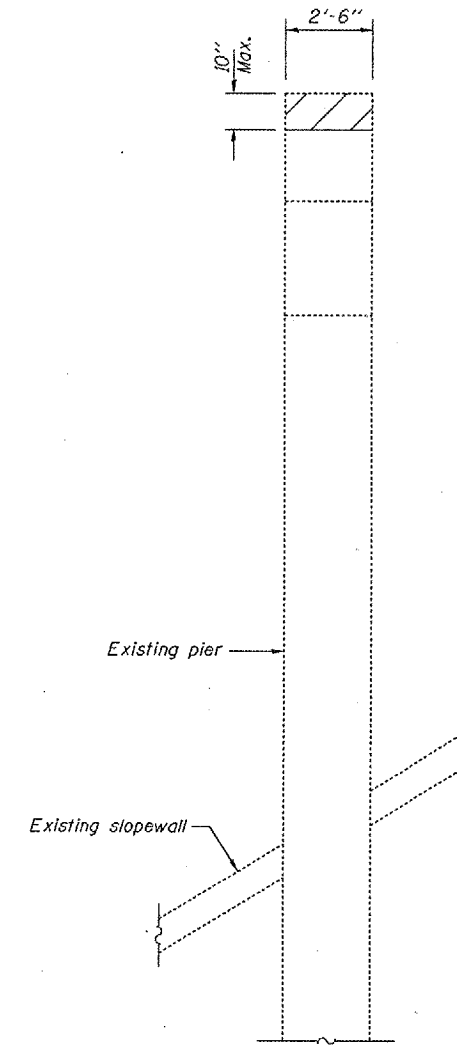
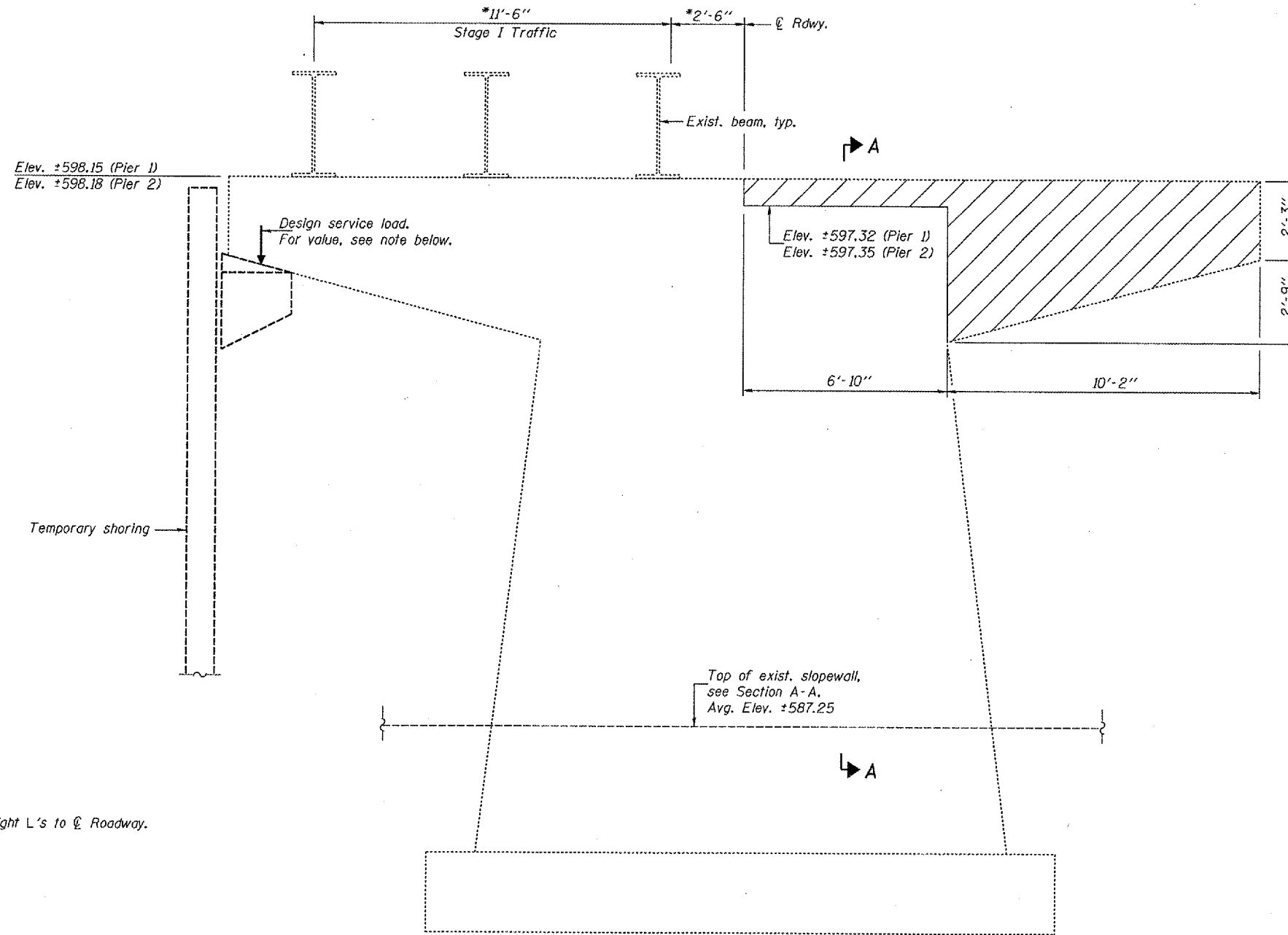
* Included in the cost of Pipe Underdrains for Structures, 4".

STAGE CONSTRUCTION DETAILS
F.A.P. RT. 662 SECTION (V.T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


ROUTE NO.	SECTION	COUNTY	FEET SHEETS	SHEET NO.	SHEET NO. 3
FAP 662	(V,T)B-2	MACOUPIN	68	34	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #72993



SECTION A-A

ELEVATION - EXISTING PIERS 1 & 2
(Looking south - Pier 1 shown; Pier 2 similar)

 Hatched area indicates the maximum portion of the existing pier that may be removed during Stage I Removal to allow Stage I Construction. Remaining portions of the existing pier that are to be removed shall be removed during Stage II Removal. Cost included with Removal of Existing Structures.

- Notes:
- The existing piers shall be shored as shown on this sheet prior to beginning Stage I Removal. The temporary shoring shall remain in place until Stage Traffic has been moved to the Stage I Construction location. See Special Provision. (See sheet 2 of 20 for Stage Construction Details.)
 - Temporary shoring shall not be supported on any part of the pier, its footing or the existing slopewall.
 - Design service load at support contact as shown is 125 kips.

BILL OF MATERIAL

Item	Unit	Total
Temporary Shoring	Each	2

**TEMPORARY SHORING DETAILS
AT EXISTING PIERS
F.A.P. RT. 662 SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504**

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	AJB/DPN

Jan 23, 2007
EXAMINED *Thomas J. Romagnolo*
ENGINEER OF BRIDGE DESIGN
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

* Dimensions at right L's to $\text{\textcircled{C}}$ Roadway.

Design service load.
For value, see note below.

Top of exist. slopewall,
see Section A-A.
Avg. Elev. ±587.25

Elev. ±598.15 (Pier 1)
Elev. ±598.18 (Pier 2)

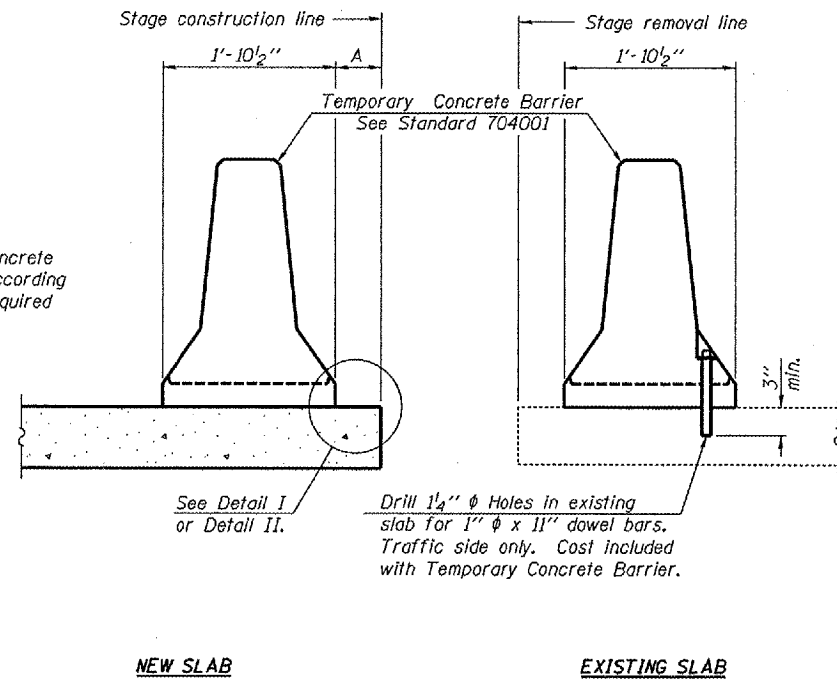
Elev. ±597.32 (Pier 1)
Elev. ±597.35 (Pier 2)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 662	(V.T)B-2	MACOUPIN	68	35
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

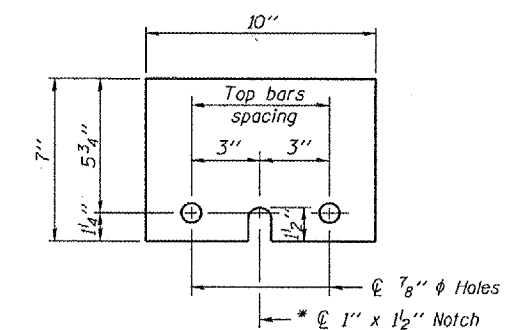
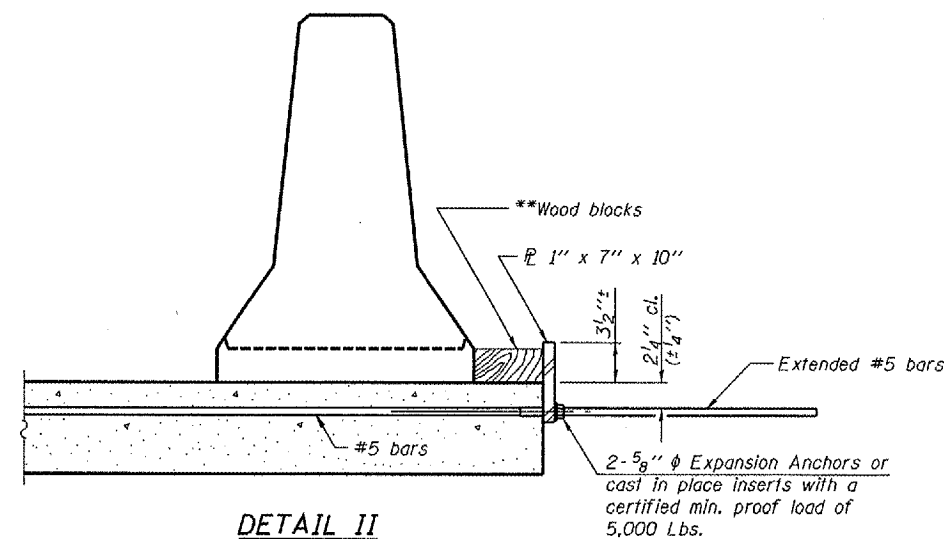
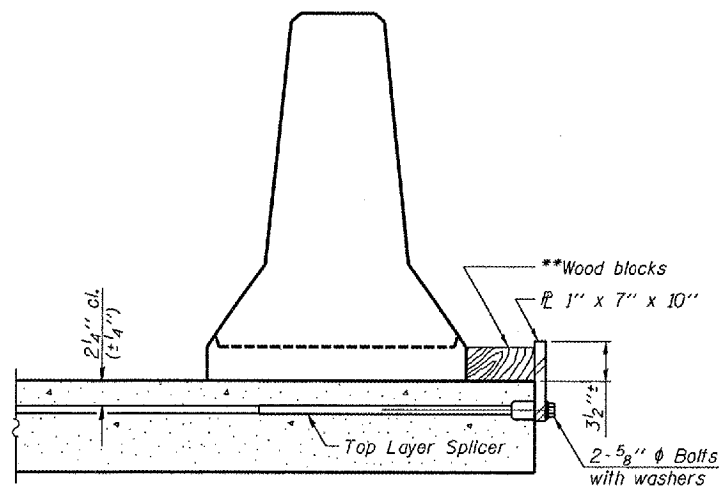
Contract #72993

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

Jan 23, 2007
EXAMINED *Thomas J. Romagallo*
PASSED *Ralph E. Anderson*

R-27

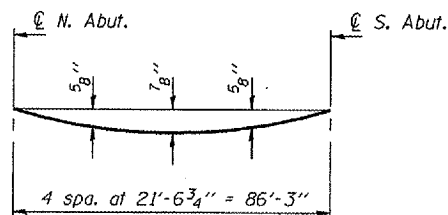
11-1-06

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.P. RT. 662 - SECTION (V.T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 662	(V,T)B-2	MACOUPIN	68	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

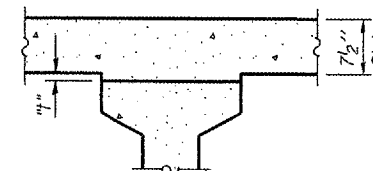
Contract #72993



DEAD LOAD DEFLECTION DIAGRAM

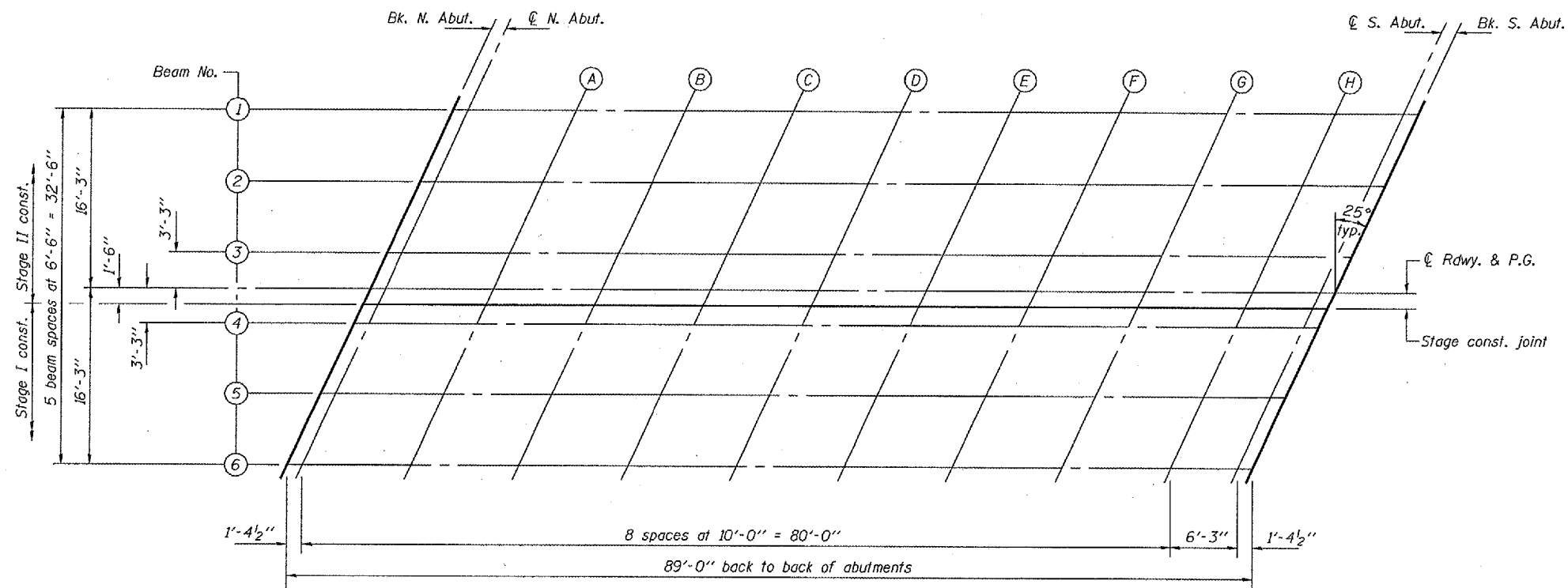
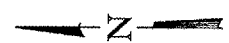
Includes weight of concrete, excluding beams

Notes: 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 as shown on sheet 6 of 20.



To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS



PLAN

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

Jan 23, 2007
EXAMINED *Thomas Donagabbi*
PASSED *Ralph E. Anderson*

TOP OF SLAB ELEVATIONS
F.A.P. RT. 662 SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 662	(V.T)B-2	MACOUPIN	68	37
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract #72993

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	44666.88	-16.25	603.68	603.68
@ N. Abut.	44668.26	-16.25	603.67	603.67
A	44678.26	-16.25	603.62	603.64
B	44688.26	-16.25	603.57	603.61
C	44698.26	-16.25	603.51	603.57
D	44708.26	-16.25	603.46	603.53
E	44718.26	-16.25	603.42	603.48
F	44728.26	-16.25	603.38	603.44
G	44738.26	-16.25	603.35	603.39
H	44748.26	-16.25	603.33	603.34
@ S. Abut.	44754.5	-16.25	603.31	603.31
Bk. of S. Abut.	44755.88	-16.25	603.31	603.31

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	44663.85	-9.75	603.82	603.82
@ N. Abut.	44665.23	-9.75	603.81	603.81
A	44675.23	-9.75	603.76	603.78
B	44685.23	-9.75	603.70	603.75
C	44695.23	-9.75	603.65	603.71
D	44705.23	-9.75	603.60	603.67
E	44715.23	-9.75	603.56	603.62
F	44725.23	-9.75	603.52	603.57
G	44735.23	-9.75	603.48	603.52
H	44745.23	-9.75	603.46	603.47
@ S. Abut.	44751.47	-9.75	603.44	603.44
Bk. of S. Abut.	44752.85	-9.75	603.44	603.44

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	44660.82	-3.25	603.93	603.93
@ N. Abut.	44662.19	-3.25	603.93	603.93
A	44672.19	-3.25	603.87	603.90
B	44682.19	-3.25	603.82	603.87
C	44692.19	-3.25	603.77	603.83
D	44702.19	-3.25	603.72	603.79
E	44712.19	-3.25	603.67	603.74
F	44722.19	-3.25	603.63	603.69
G	44732.19	-3.25	603.59	603.63
H	44742.19	-3.25	603.57	603.58
@ S. Abut.	44748.44	-3.25	603.55	603.55
Bk. of S. Abut.	44749.82	-3.25	603.55	603.55

@ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	44659.30	0	603.99	603.99
@ N. Abut.	44660.68	0	603.98	603.98
A	44670.68	0	603.93	603.96
B	44680.68	0	603.88	603.93
C	44690.68	0	603.83	603.89
D	44700.68	0	603.78	603.85
E	44710.68	0	603.73	603.79
F	44720.68	0	603.69	603.74
G	44730.68	0	603.65	603.69
H	44740.68	0	603.62	603.64
@ S. Abut.	44746.92	0	603.60	603.60
Bk. of S. Abut.	44748.30	0	603.60	603.60

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	44658.60	1.50	603.97	603.97
@ N. Abut.	44659.98	1.50	603.96	603.96
A	44669.98	1.50	603.91	603.94
B	44679.98	1.50	603.86	603.91
C	44689.98	1.50	603.81	603.87
D	44699.98	1.50	603.76	603.83
E	44709.98	1.50	603.71	603.77
F	44719.98	1.50	603.67	603.72
G	44729.98	1.50	603.63	603.67
H	44739.98	1.50	603.60	603.61
@ S. Abut.	44746.22	1.50	603.58	603.58
Bk. of S. Abut.	44747.60	1.50	603.58	603.58

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	44657.78	3.25	603.95	603.95
@ N. Abut.	44659.16	3.25	603.94	603.94
A	44669.16	3.25	603.89	603.91
B	44679.16	3.25	603.84	603.89
C	44689.16	3.25	603.79	603.85
D	44699.16	3.25	603.73	603.80
E	44709.16	3.25	603.68	603.75
F	44719.16	3.25	603.64	603.70
G	44729.16	3.25	603.60	603.64
H	44739.16	3.25	603.57	603.59
@ S. Abut.	44745.41	3.25	603.56	603.56
Bk. of S. Abut.	44746.78	3.25	603.55	603.55

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	44654.75	9.75	603.86	603.86
@ N. Abut.	44656.13	9.75	603.86	603.86
A	44666.13	9.75	603.80	603.83
B	44676.13	9.75	603.75	603.80
C	44686.13	9.75	603.70	603.76
D	44696.13	9.75	603.65	603.72
E	44706.13	9.75	603.60	603.66
F	44716.13	9.75	603.55	603.61
G	44726.13	9.75	603.51	603.55
H	44736.13	9.75	603.48	603.50
@ S. Abut.	44742.37	9.75	603.46	603.46
Bk. of S. Abut.	44743.75	9.75	603.46	603.46

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	44651.72	16.25	603.76	603.76
@ N. Abut.	44653.10	16.25	603.75	603.75
A	44663.10	16.25	603.70	603.72
B	44673.10	16.25	603.64	603.69
C	44683.10	16.25	603.59	603.65
D	44693.10	16.25	603.54	603.61
E	44703.10	16.25	603.49	603.55
F	44713.10	16.25	603.44	603.50
G	44723.10	16.25	603.40	603.44
H	44733.10	16.25	603.37	603.38
@ S. Abut.	44739.34	16.25	603.35	603.35
Bk. of S. Abut.	44740.72	16.25	603.34	603.34

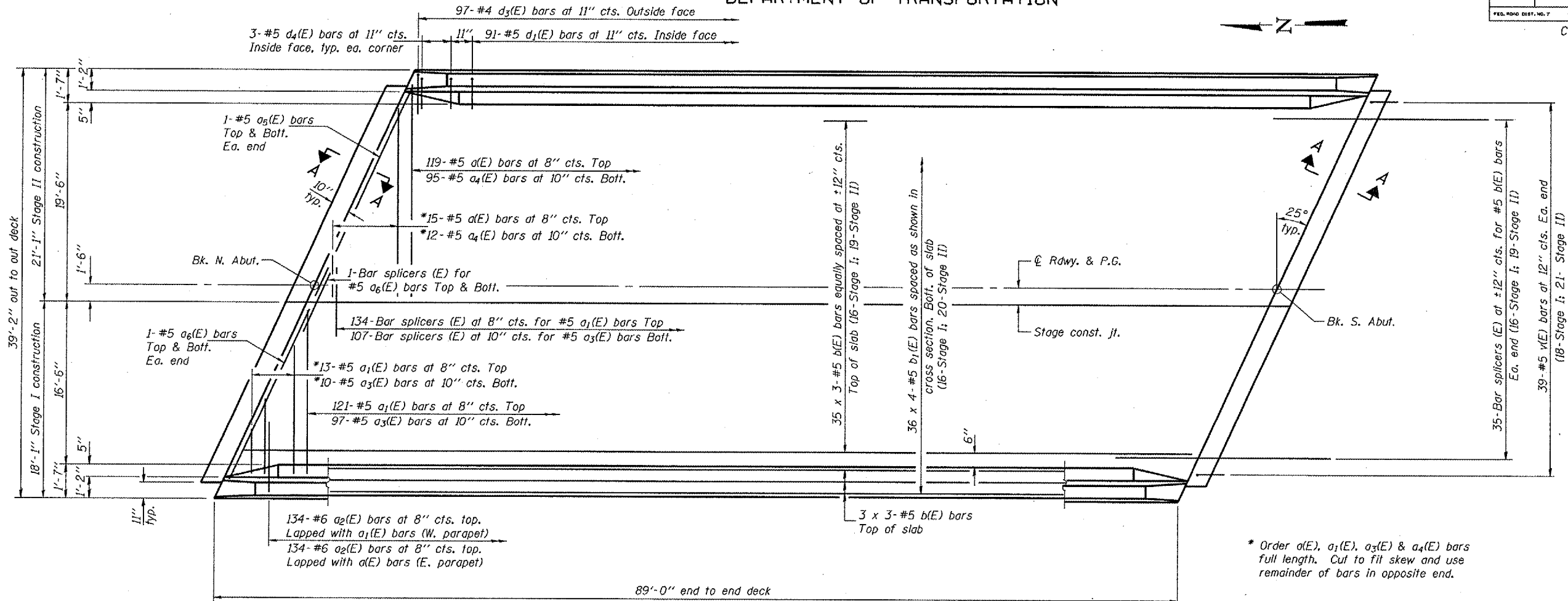
DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

Jan 23, 2007
EXAMINED *Thomas J. Romagallo*
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.P. RT. 662 SECTION (V.T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

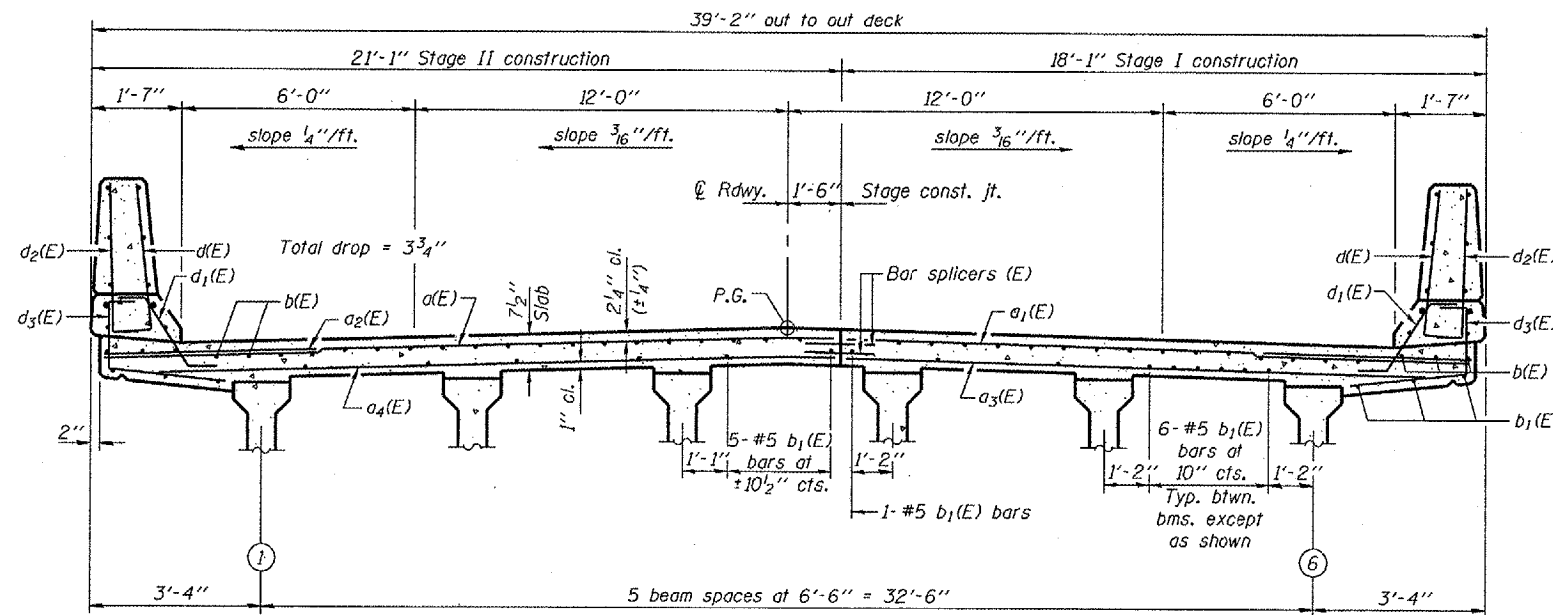
ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 7
FAP 662	(V.T)B-2	MACOUPIN	68	38	20 SHEETS
FED. ROAD DIST. NO. 7	ALIGNMENT	FED. AID PROJECT	Contract #72993		



PLAN

* Order a(E), a₁(E), a₃(E) & a₄(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

Notes: . See sheet 8 of 20 for superstructure details and Bill of Material.
. Bars indicated thus 36 x 4-#5 etc. indicates 36 lines of bars with 4 lengths per line.
. See sheet 8 of 20 for parapet reinforcement.
. For Section A-A and diaphragm details, see sheet 9 of 20.



CROSS SECTION
(Looking south)

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

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

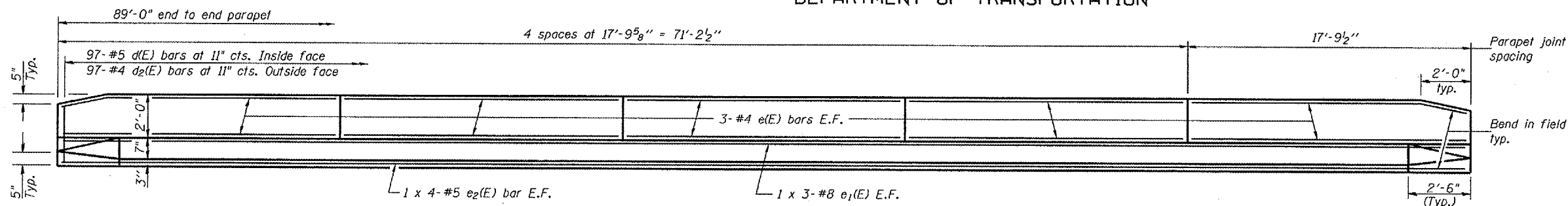
Jan 23, 2007
EXAMINED *Thomas J. Donnell*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE
F.A.P. RT. 662 SECTION (V.T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 662	(V,T)B-2	MACOUPIN	68	39
FED. ROAD DIST. NO. 17		ILLINOIS	FED. AID PROJECT	

Contract #72993



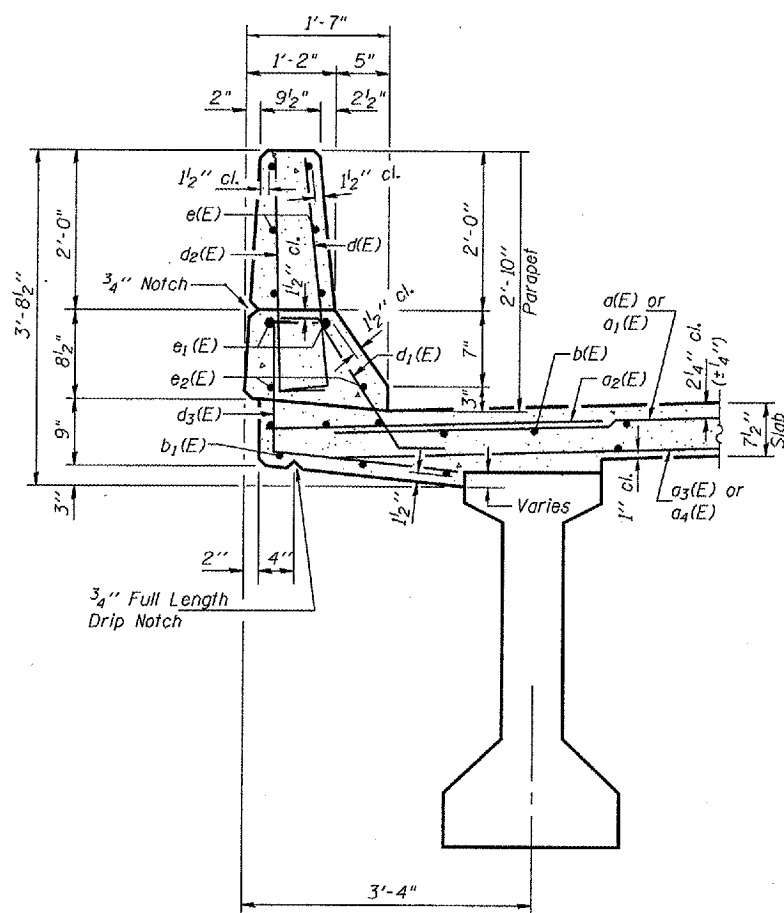
INSIDE ELEVATION OF PARAPET

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

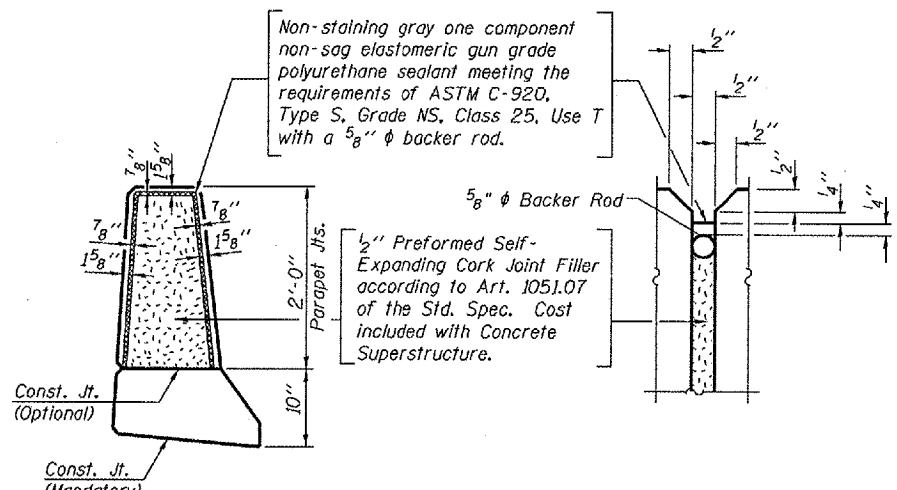
**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	134	#5	20'-7"	—
a1(E)	134	#5	17'-7"	—
a2(E)	268	#6	6'-0"	—
a3(E)	107	#5	16'-9"	—
a4(E)	107	#5	19'-9"	—
a5(E)	4	#5	22'-1"	—
a6(E)	4	#5	18'-9"	—
b(E)	123	#5	30'-8"	—
b1(E)	144	#5	23'-5"	—
d(E)	194	#5	3'-0"	—
d1(E)	182	#5	2'-5"	┘
d2(E)	194	#4	3'-0"	—
d3(E)	194	#4	3'-8"	┘
d4(E)	12	#5	2'-2"	┘
e(E)	60	#4	17'-6"	—
e1(E)	12	#8	31'-10"	—
e2(E)	16	#5	23'-5"	—
m(E)	4	#6	18'-7"	—
m1(E)	4	#6	21'-11"	—
m2(E)	6	#6	19'-7"	—
m3(E)	6	#6	22'-11"	—
m4(E)	16	#6	9'-11"	—
m5(E)	8	#6	4'-9"	—
m6(E)	4	#6	2'-4"	—
m7(E)	2	#6	3'-10"	—
m8(E)	4	#6	6'-9"	—
m9(E)	4	#6	10'-1"	—
s(E)	62	#4	12'-11"	┘
s1(E)	78	#5	6'-10"	┘
v(E)	78	#5	3'-4"	┘
Reinforcement Bars, Epoxy Coated		Lbs.	25920	
Concrete Superstructure		Cu. Yds.	144.5	

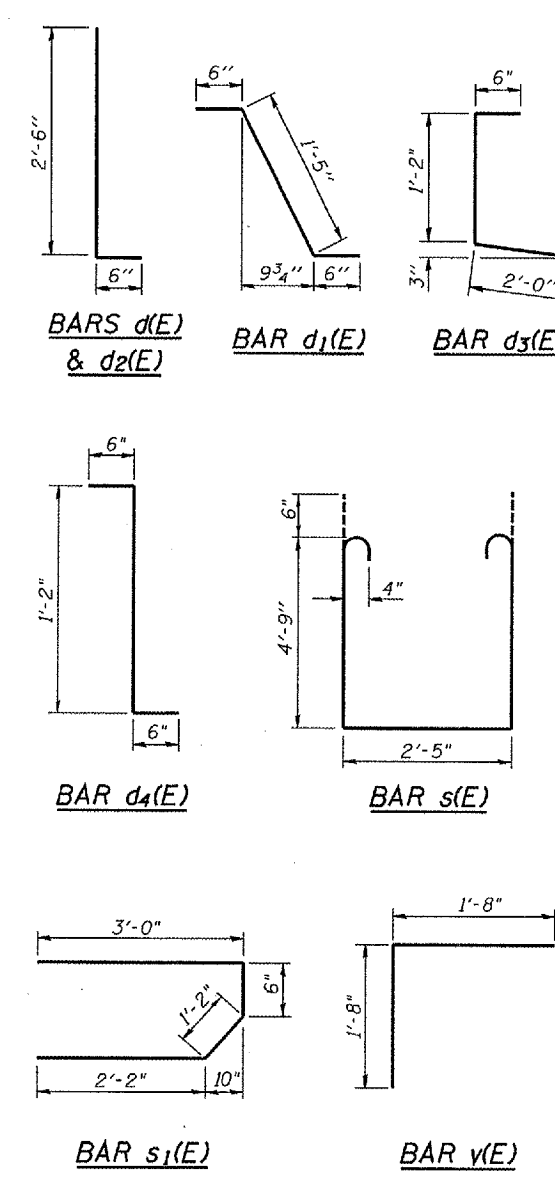
Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bar with 3 lengths per line.



SECTION THRU PARAPET



PARAPET JOINT DETAILS



DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

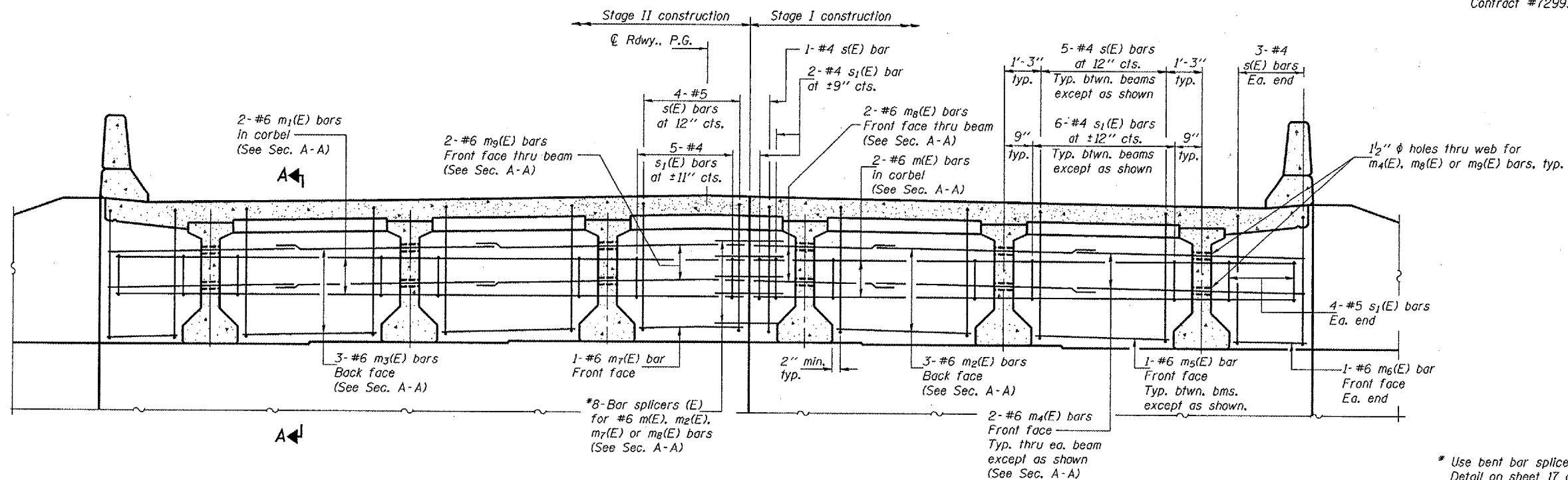
EXAMINED *Thomas J. Donagabbi*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE DETAILS
F.A.P. RT. 662 SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9
FAP 662	(V,T)B-2	MACOUPIN	68	40	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #72993

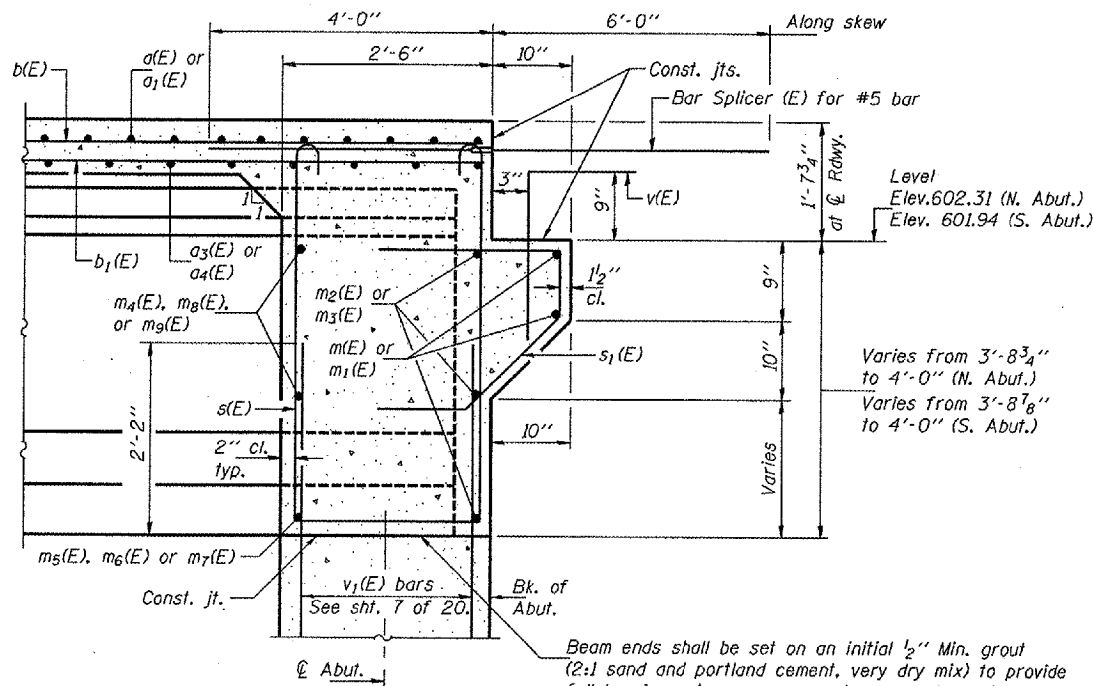


DIAPHRAGM ELEVATION AT SOUTH ABUTMENT

(Looking south - North Abut. similar)

* Use bent bar splicers in front face.
Detail on sheet 17 of 20.

- Notes:
- Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 20.
 - Concrete in diaphragm is included with concrete superstructure on sheet 8 of 20.
 - For details of bar splicers, see sheet 17 of 20.
 - For details of bars s(E) and s₁(E) see sheet 8 of 20.
 - 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.



SECTION A-A

Dimensions are at right L's to abutments, except as shown.

Beam ends shall be set on an initial 1/2" Min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

MIN. BAR LAPS

#6 bars = 2'-9"

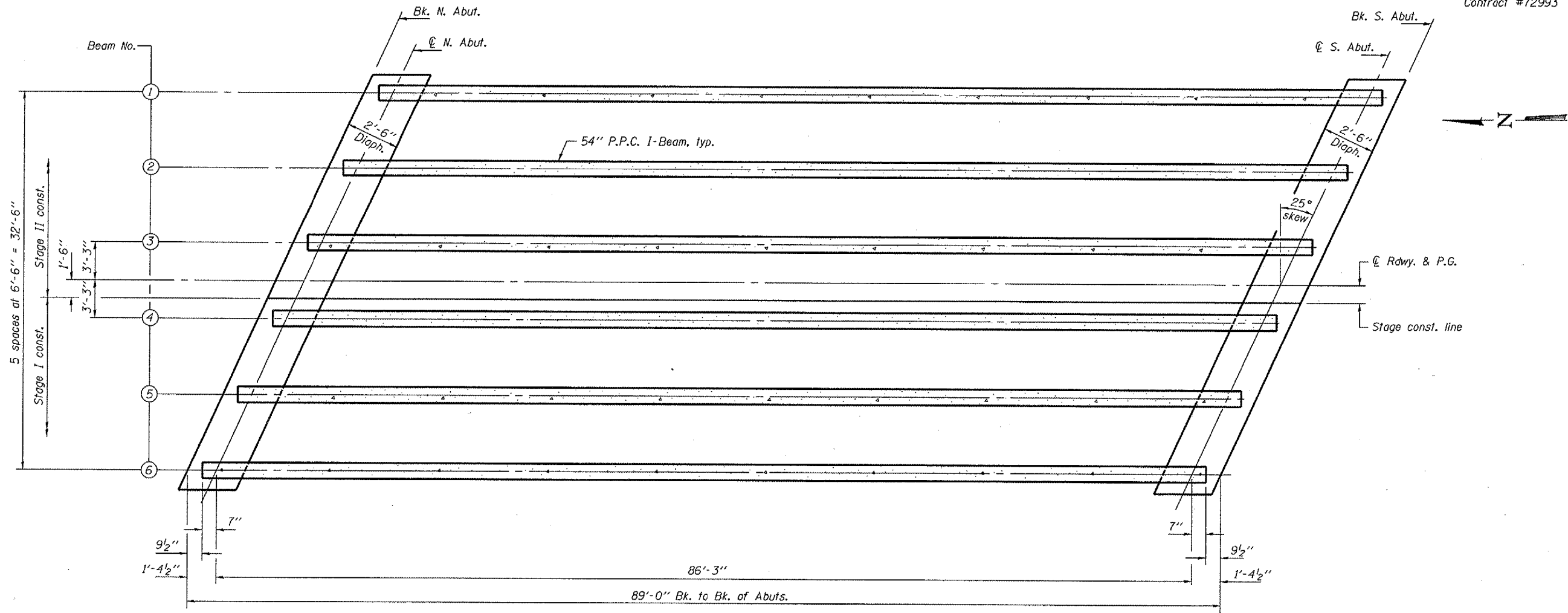
DESIGNED	DPN
CHECKED	AJB
DRAWN	h.i. duong
CHECKED	FT/AJB/DPN

Jan 23, 2007
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

DIAPHRAGM DETAILS
F.A.P. RT. 662 SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 20 SHEETS
FAP 662	(V,T)B-2	MACOUPIN	68	41	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract #72993		



FRAMING PLAN

INTERIOR BEAM MOMENT TABLE		
0.5 Span		
I	(in ⁴)	213715
I'	(in ⁴)	507830
S _b	(in ³)	8559
S _b '	(in ³)	12888
S _t	(in ³)	7362
S _t '	(in ³)	34788
DC1	(k/')	1.254
M DC1	(k)	1166.0
DC2	(k/')	0.15
M DC2	(k)	139.5
DW	(k/')	.325
M DW	(k)	302.2
M _l + Imp	(k)	1365.5

INTERIOR BEAM REACTION TABLE		
HL93 LOADING		
Abut.		
R DC1	(k)	54.1
R DC2	(k)	6.5
R DW	(k)	14.0
R l	(k)	65.6
R (Imp)	(k)	23.7
R (Total)	(k)	163.9

- I: Non-composite moment of inertia of beam section (in.⁴).
- I': Composite moment of inertia of beam section (in.⁴).
- S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
- S_t': Composite section modulus for the top fiber of the prestressed beam (in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_l + Imp: Un-factored live load moment plus dynamic load allowance (Impact) (kip-ft.).

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

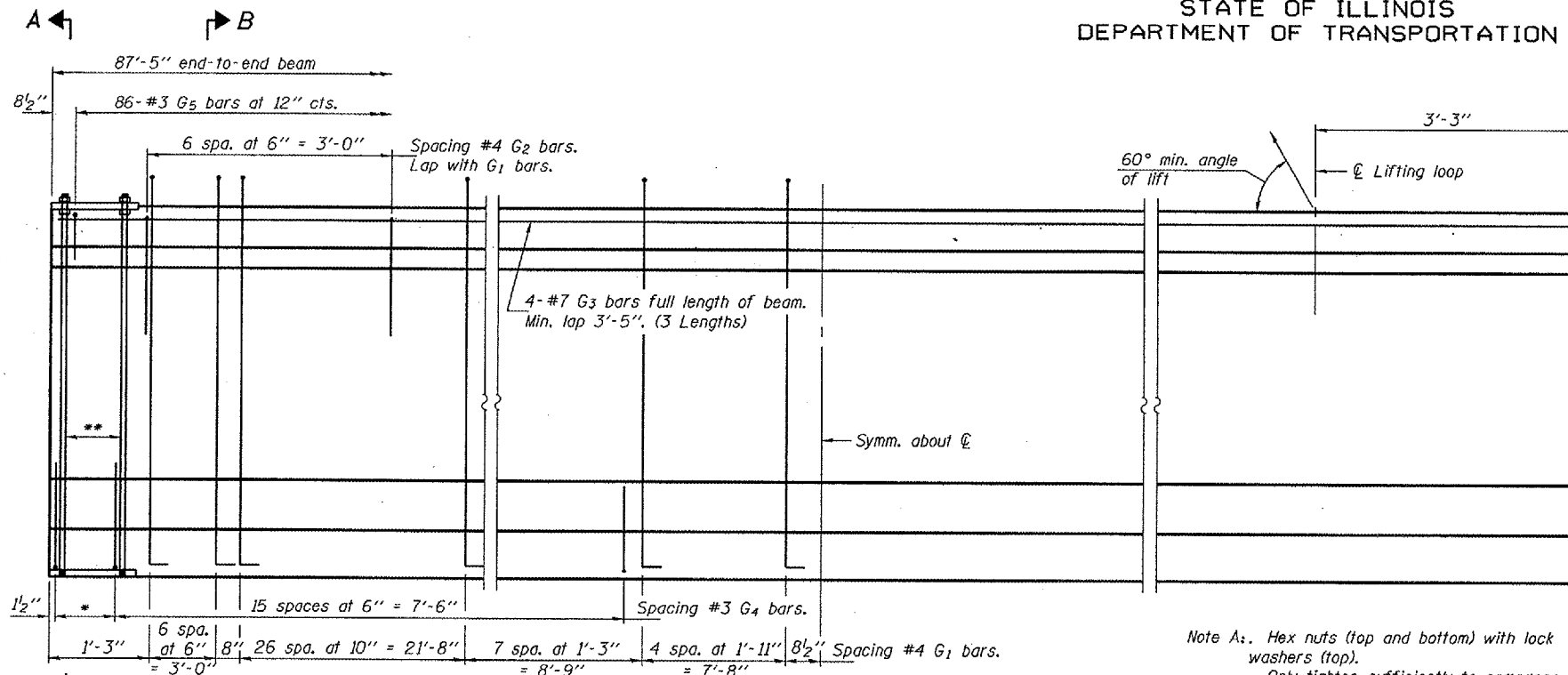
Jan 23, 2007
 EXAMINED *Thomas J. Romagallo*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ronald E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

FRAMING PLAN
F.A.P. RT. 662 - SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

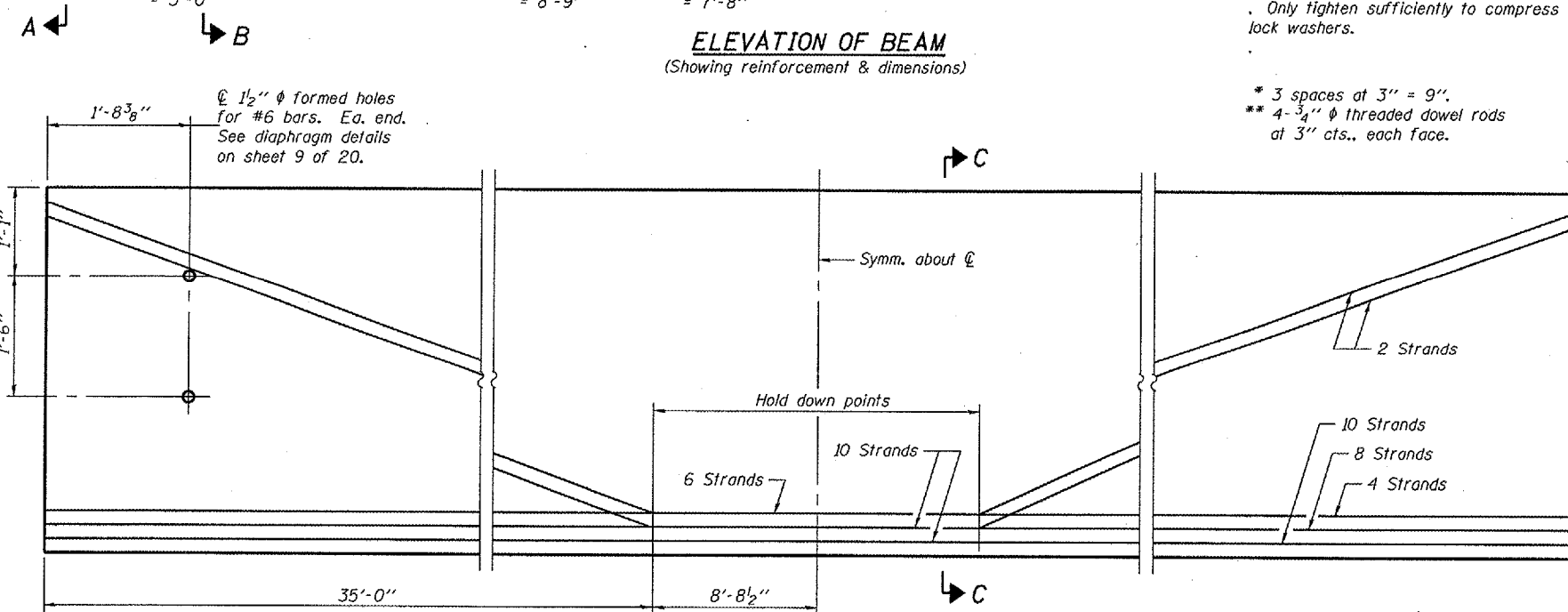
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 11
FAP 662	(V.T)B-2	MACOUPIN	68	42	20 SHEETS
FED. ROAD DIST. NO. 7	ILL. PROJ. NO.	FED. AID PROJECT			

Contract #72993



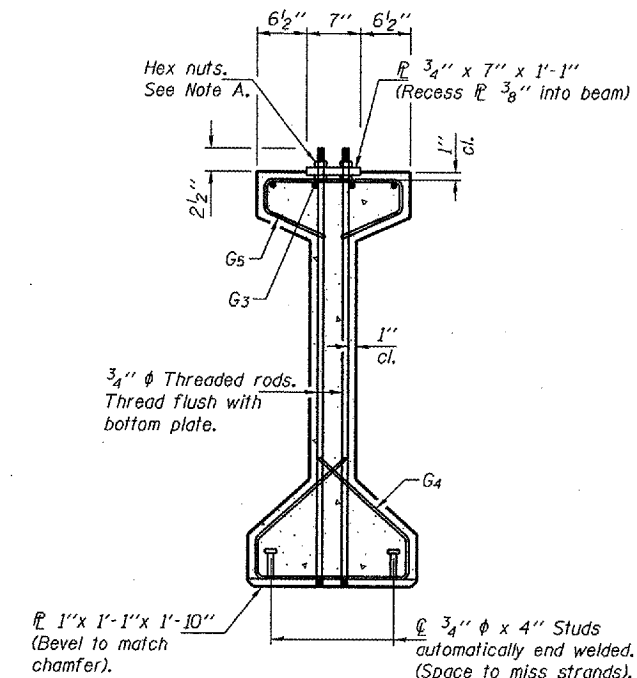
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

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

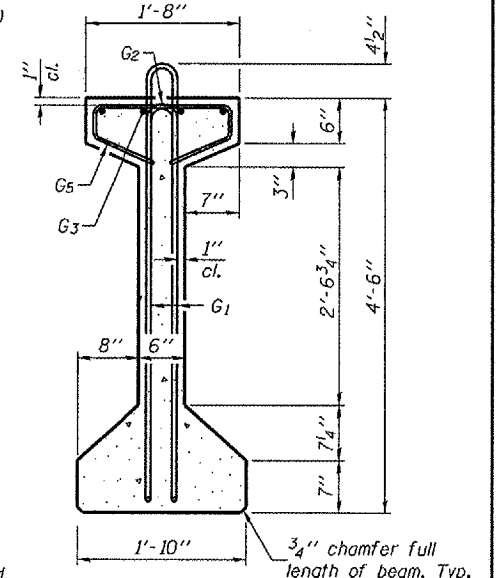


ELEVATION OF BEAM
(Showing prestressing steel)

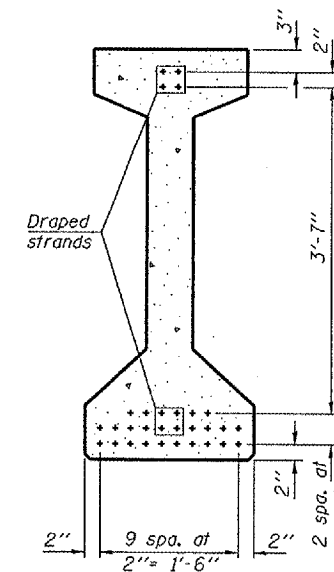
* 3 spaces at 3" = 9".
** 4-3/4" φ threaded dowel rods at 3" cts., each face.



SECTION A-A



SECTION B-B



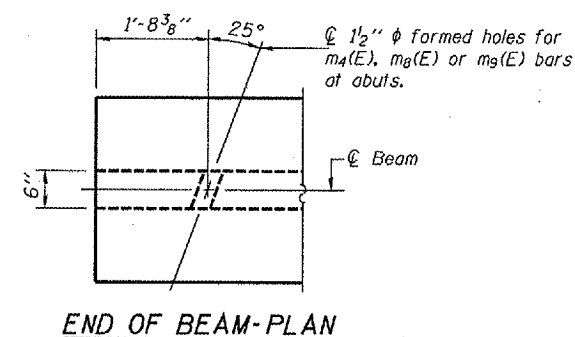
SECTION C-C

*****BAR LIST**
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G ₁	90	#4	10'-5"	⊏
G ₂	14	#4	5'-4"	⊏
G ₃	12	#7	31'-4"	—
G ₄	38	#3	4'-11"	⊏
G ₅	86	#3	3'-5"	⊏

***For information only.

Notes: . See sheet 12 of 20 for additional details and Bill of Material.
. Required release strength, f'cl, shall be 5000 psi.



END OF BEAM-PLAN

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

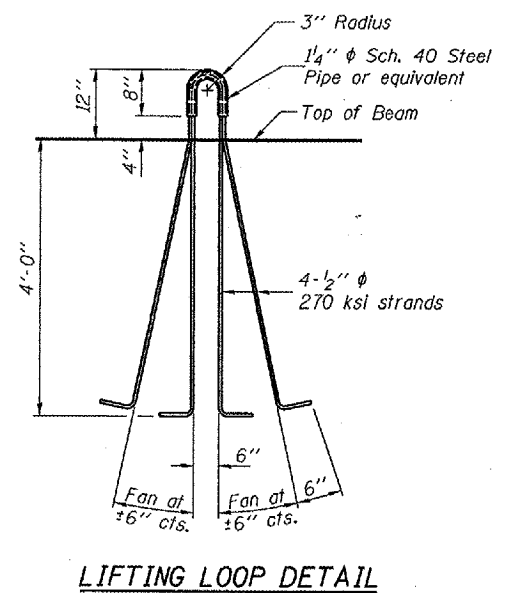
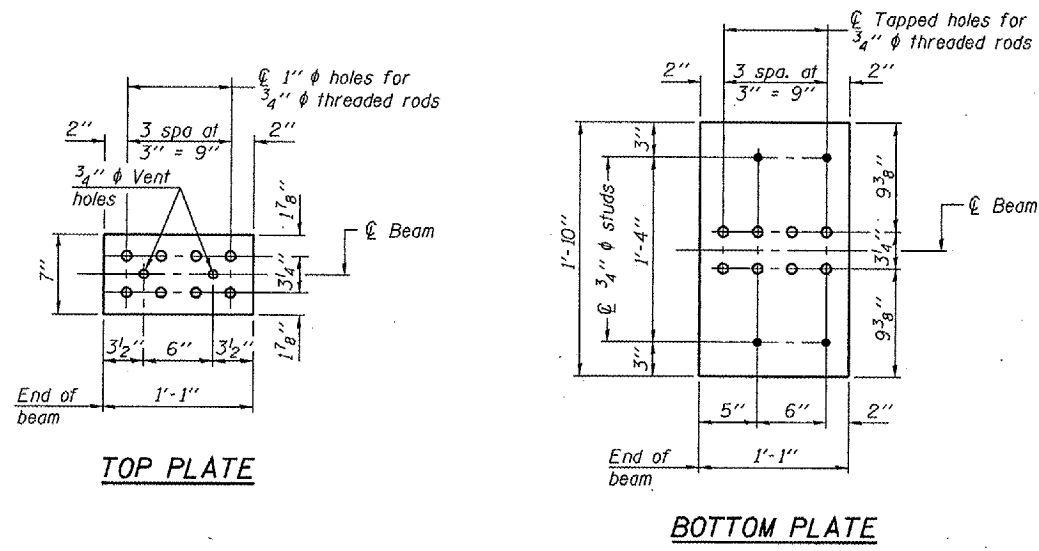
Jan 23, 2007
EXAMINED *Thomas J. Demagali*
PASSED *Ralph E. Anderson*

PI-4-54 11-1-06

54" PPC I-BEAM
F.A.P. RT. 662 SECTION (V.T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 12
FAP 662	(V,T)B-2	MACOUPIN	68	43	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract #72993		



NOTES

Inserts for 3/4" ϕ threaded dowel rods, when specified, are to be two strut, coil type for interior beams and single coil, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.

The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

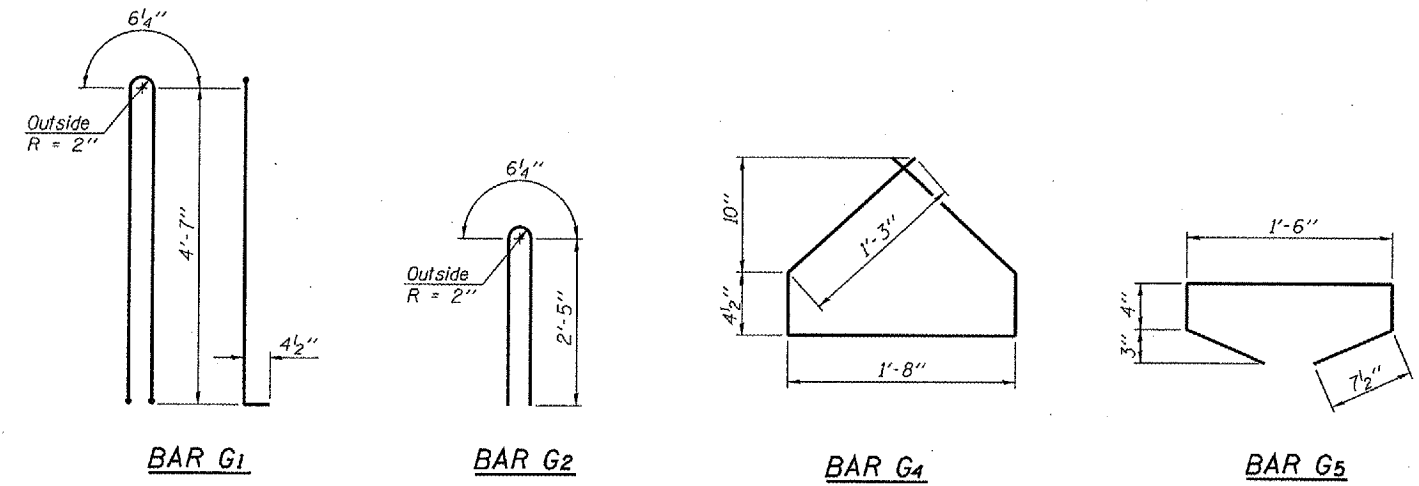
Non-prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.

A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.

The bottom plates and studs shall be galvanized according to AASHTO M 111.

Threaded rods shall be ASTM F 1554 Grade 55.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to all portions of the I-beam or Bulb-T beam, except the top surface of the top flange and the bottom surface of the bottom flange, starting at each beam end and extending out a distance of 54 inches. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.



BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Ft.	524.5

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

Jan 23, 2007
 EXAMINED *Thomas J. Demgalick*
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

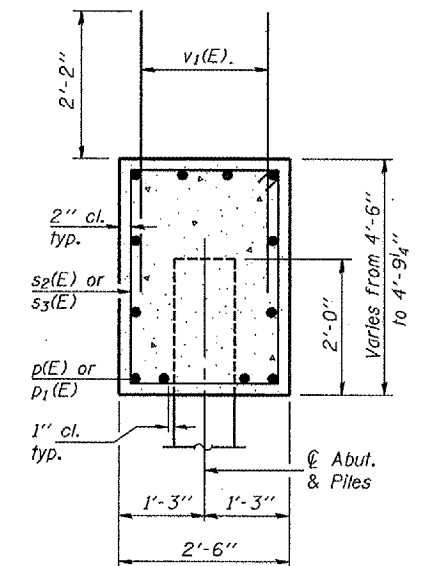
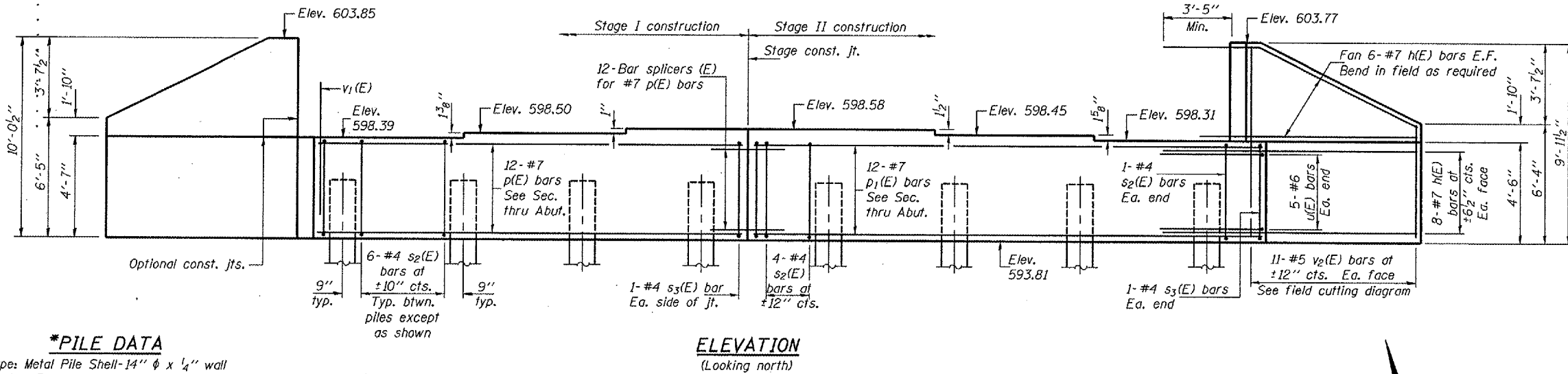
54" PPC I-BEAM DETAILS
 F.A.P. RT. 662 SECTION (V,T)B-2
 MACOUPIN COUNTY
 STATION 447+03.80
 STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13
FAP 662	(V,T)B-2	MACOUPIN	68	44	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #72993

Notes: . Four steps monolithically with cap.
. For details of bar splicers, see sheet 17 of 20.
. For details of piles, see sheet 16 of 20.

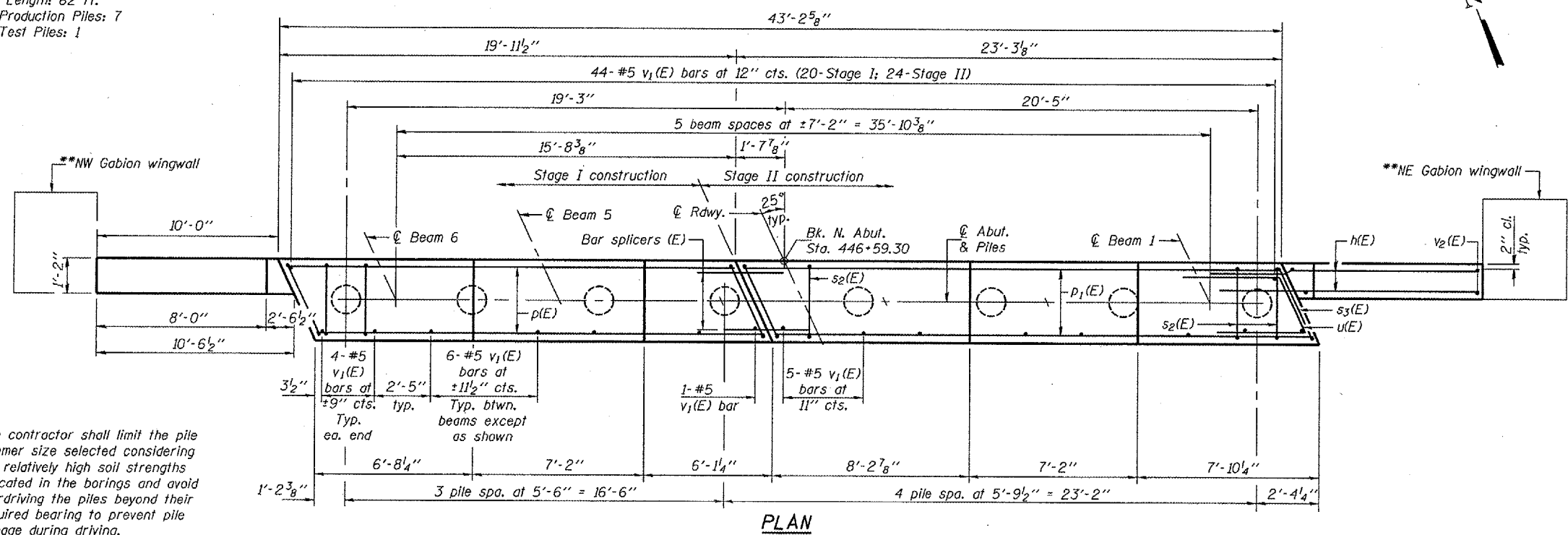


SECTION THRU ABUT.

***PILE DATA**

Type: Metal Pile Shell-14" ϕ x 1/4" wall
Nominal Required Bearing: 398 kips
Factored Resistance Available: 199 kips
Est. Length: 62 ft.
No. Production Piles: 7
No. Test Piles: 1

ELEVATION
(Looking north)

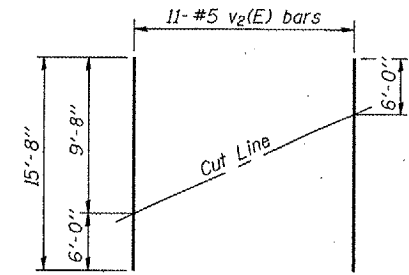
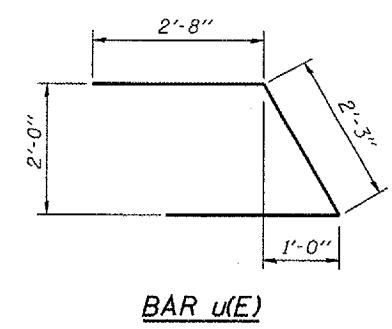
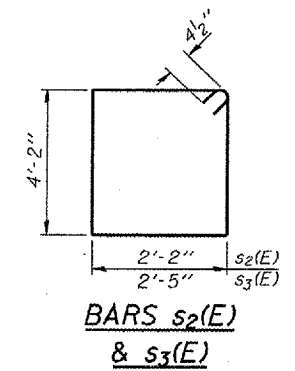


PLAN

*The contractor shall limit the pile hammer size selected considering the relatively high soil strengths indicated in the borings and avoid overdriving the piles beyond their required bearing to prevent pile damage during driving.
**For gabion wingwall details, see sheet 15 of 20.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#7	14'-0"	
p(E)	12	#7	19'-8"	
p1(E)	12	#7	22'-11"	
s2(E)	42	#4	13'-5"	□
s3(E)	4	#4	13'-11"	□
u(E)	10	#6	7'-7"	┌
v1(E)	82	#5	4'-4"	
v2(E)	22	#5	15'-8"	
Concrete Structures		Cu. Yd.	26.2	
Reinforcement Bars, Epoxy Coated		Pound	3100	
Structure Excavation		Cu. Yd.	106.5	
Furnishing Metal Shell Piles 14"		Foot	434	
Driving Piles		Foot	434	
Test Pile Metal Shells		Each	1	



FIELD CUTTING DIAGRAM
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

Jan 23, 2007
EXAMINED *Thomas Romagallo*
PASSED *Ralph E. Anderson*

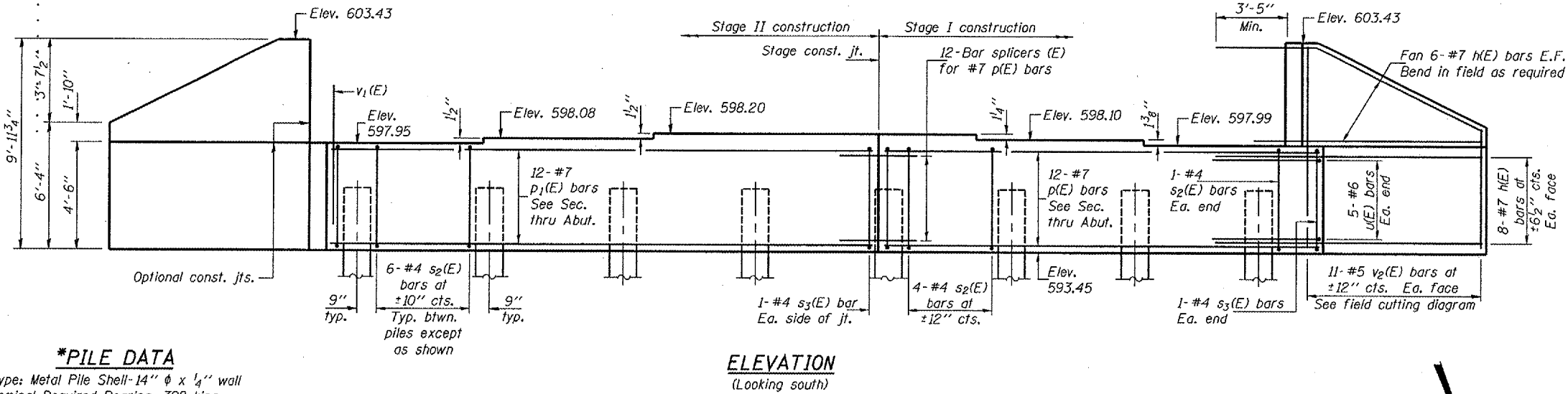
NORTH ABUTMENT
F.A.P. RT. 662 - SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 662	(V,T)B-2	MACOUPIN	68	45
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		20 SHEETS

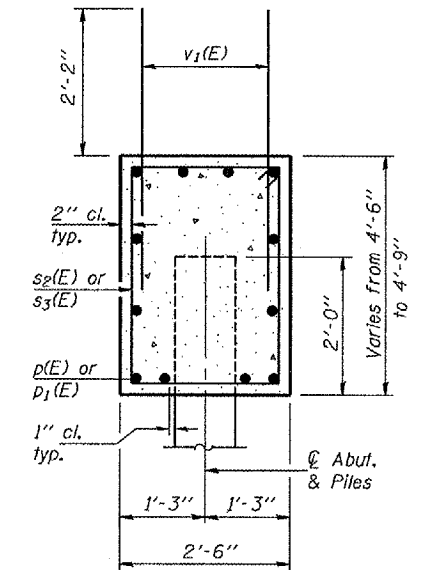
Contract #72993

Notes: . Pour steps monolithically with cap.
. For details of bar splicers, see sheet 17 of 20.
. For details of piles, see sheet 16 of 20.

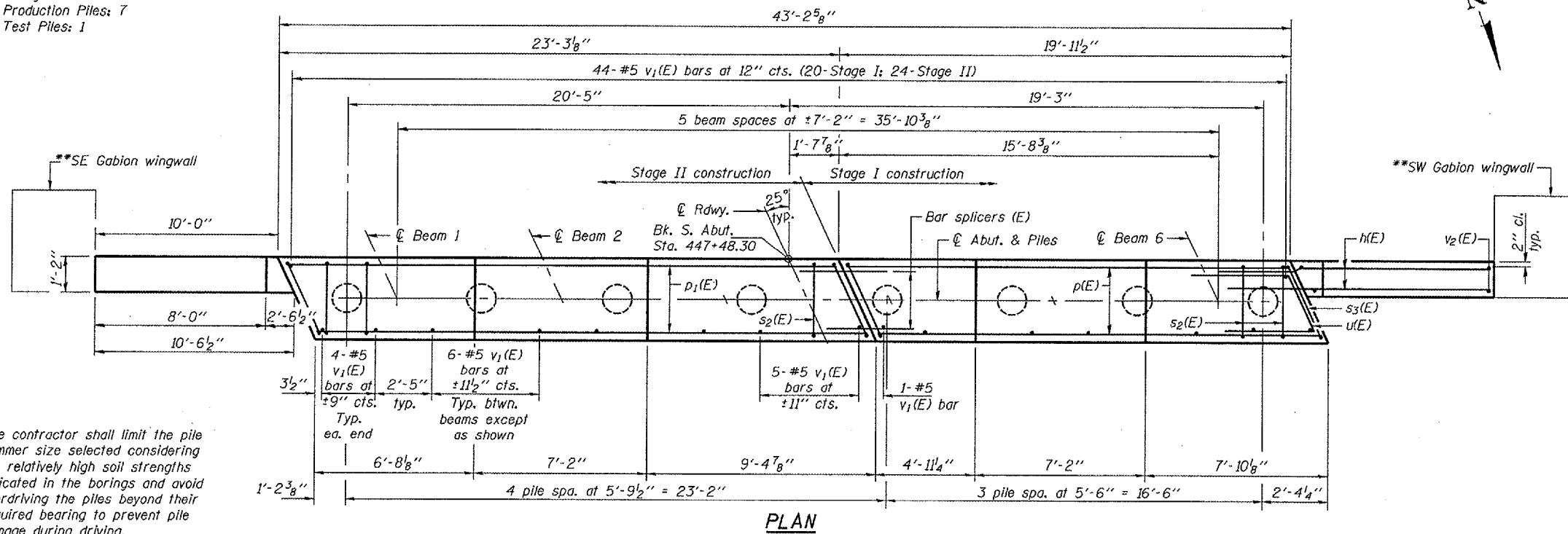


***PILE DATA**

Type: Metal Pile Shell-14" φ x 1/4" wall
Nominal Required Bearing: 398 kips
Factored Resistance Available: 199 kips
Est. Length: 71 ft.
No. Production Piles: 7
No. Test Piles: 1



SECTION THRU ABUT.



*The contractor shall limit the pile hammer size selected considering the relatively high soil strengths indicated in the borings and avoid overdriving the piles beyond their required bearing to prevent pile damage during driving.

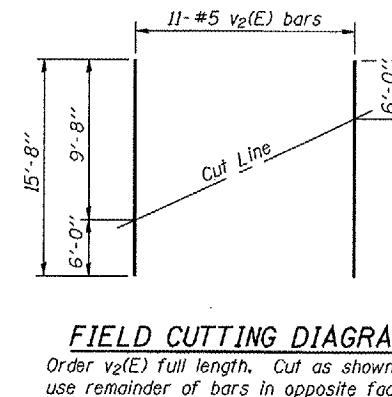
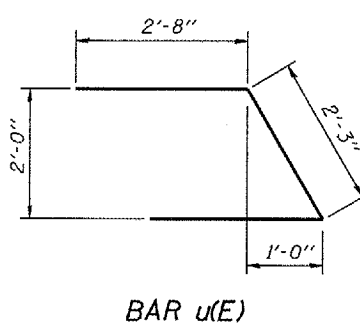
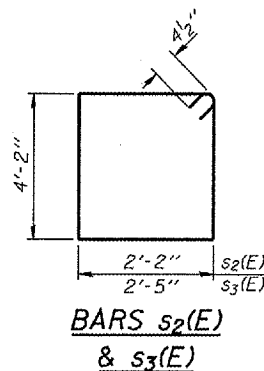
**For gabion wingwall details, see sheet 15 of 20.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#7	14'-0"	—
p(E)	12	#7	19'-8"	—
p ₁ (E)	12	#7	22'-11"	—
s ₂ (E)	42	#4	13'-5"	□
s ₃ (E)	4	#4	13'-11"	□
u(E)	10	#6	7'-7"	∩
v ₁ (E)	82	#5	4'-4"	—
v ₂ (E)	22	#5	15'-8"	—
Concrete Structures	Cu. Yd.		26.1	
Reinforcement Bars, Epoxy Coated	Pound		3100	
Structure Excavation	Cu. Yd.		106.5	
Furnishing Metal Shell Piles 14"	Foot		497	
Driving Piles	Foot		497	
Test Pile Metal Shells	Each		1	

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

Jan 23, 2007
EXAMINED *Thomas J. Romagallo*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

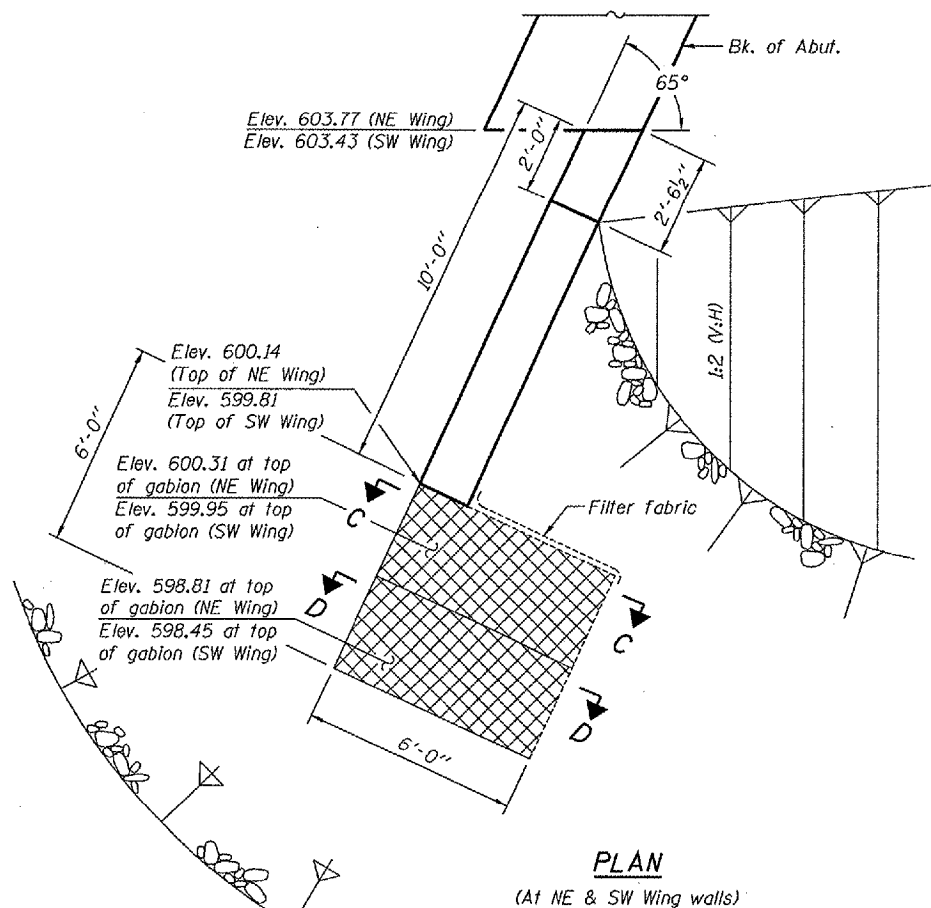
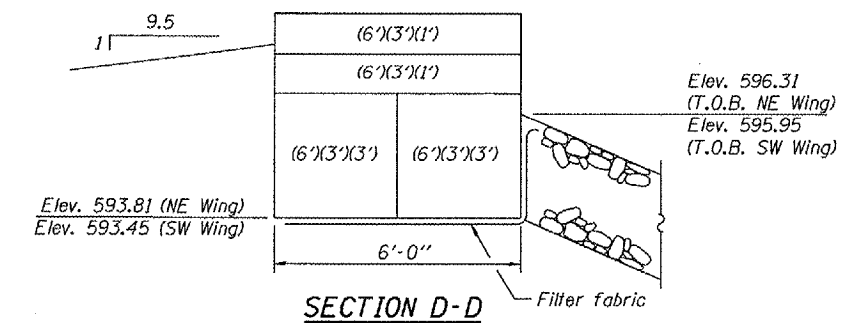
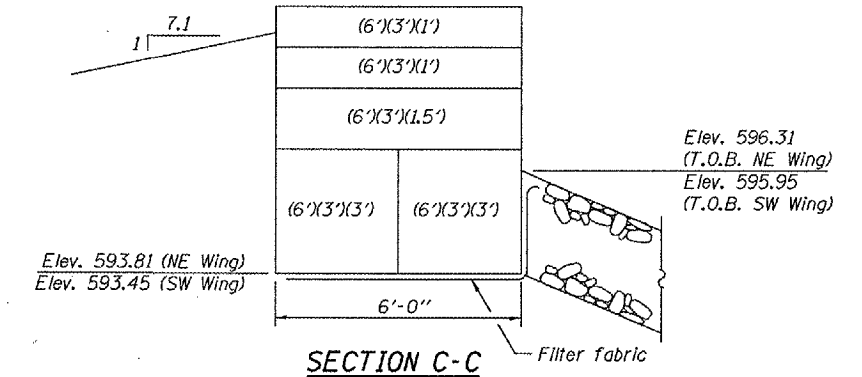
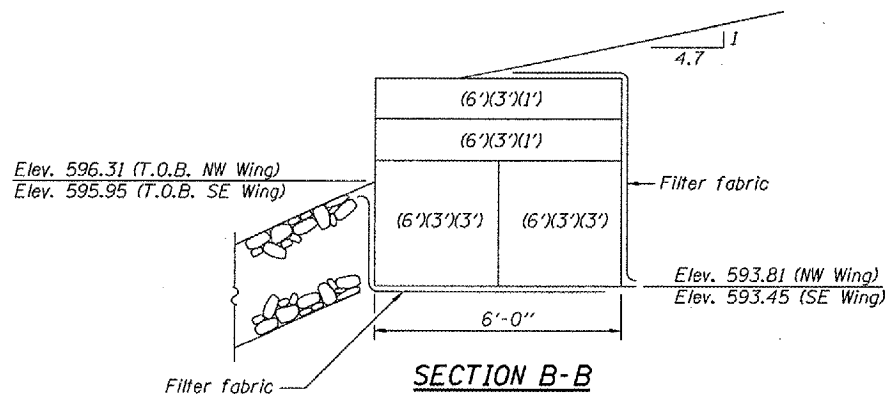
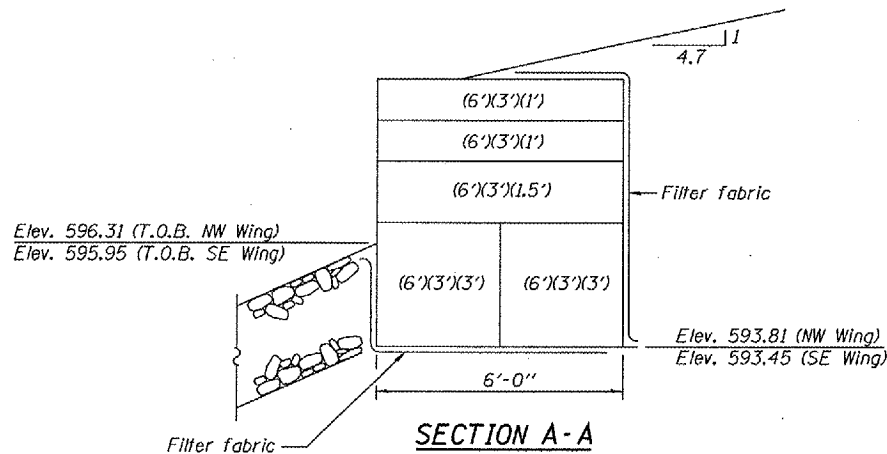
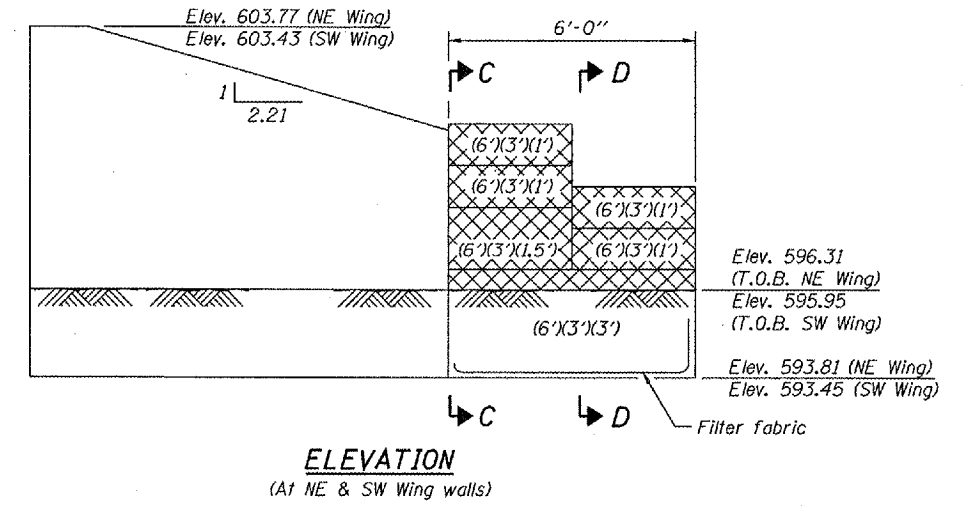
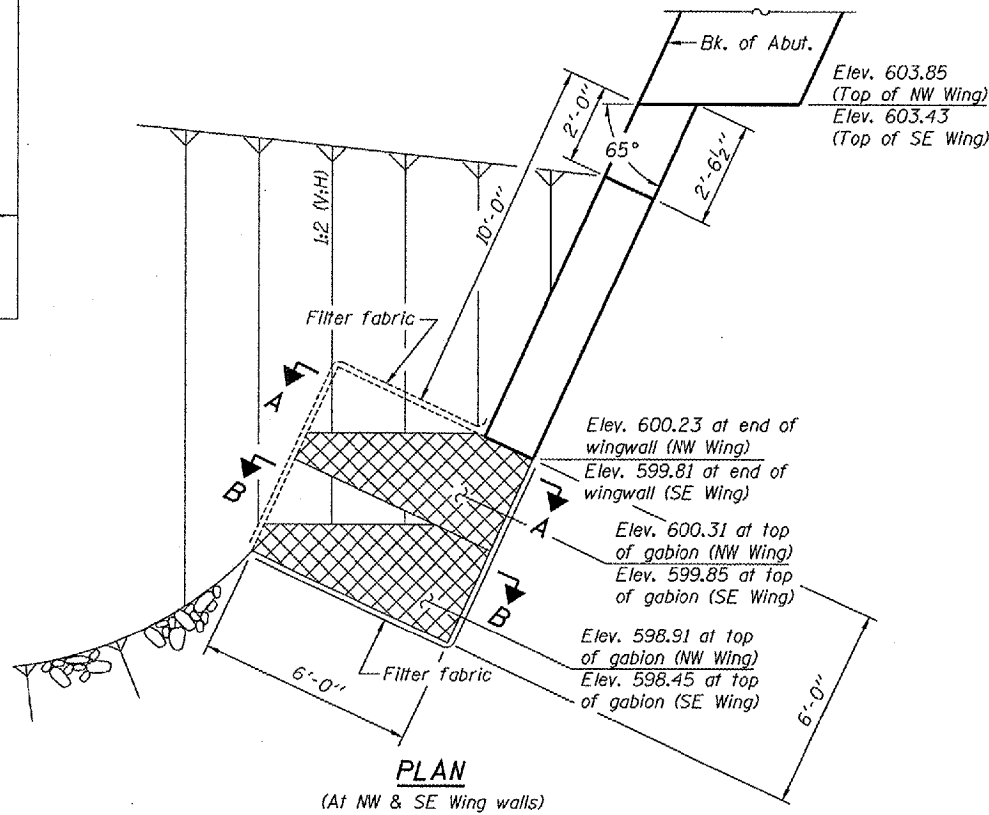
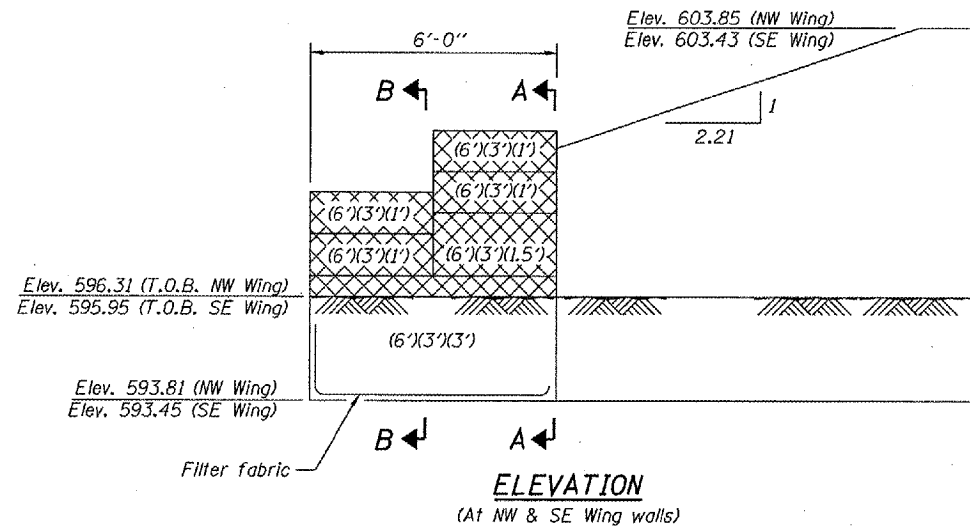


SOUTH ABUTMENT
F.A.P. RT. 662 SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAP 662	(V.T)B-2	MACOUPIN	68	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		20 SHEETS

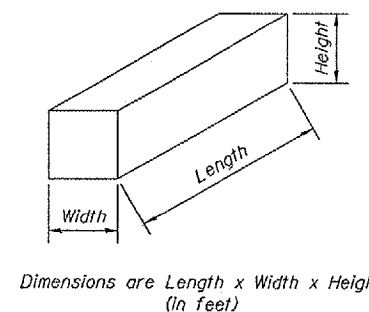
Contract #72993



Denotes exposed gabion
T.O.B. denotes Top of Berm.

DESIGNED	NHB
CHECKED	DPN
DRAWN	h.t. duong
CHECKED	NHB/DPN

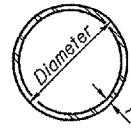
Jan 23, 2007
EXAMINED *Thomas J. Romagallo*
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES



**4 GABION WINGWALLS
BILL OF MATERIAL**

Item	Unit	Total
Gabions	Cu. Yd.	30.7
Filter Fabric	Sq. Yd.	60
Structure Excavation	Cu. Yd.	47.0

GABION WINGWALL DETAILS
F.A.P. RT. 662 SECTION (V.T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504



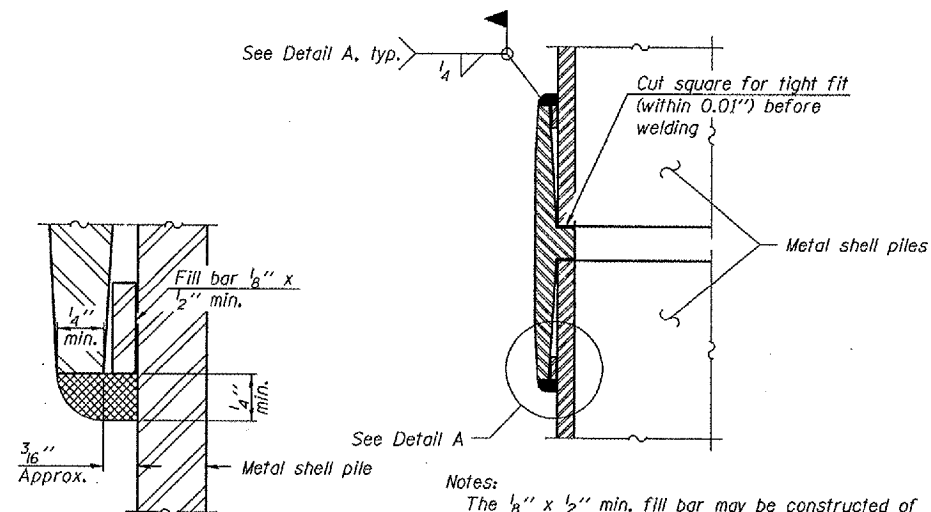
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 16
FAP 662	(V.T)B-2	MACOUPIN	68	47	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #72993

METAL SHELL PILE TABLE

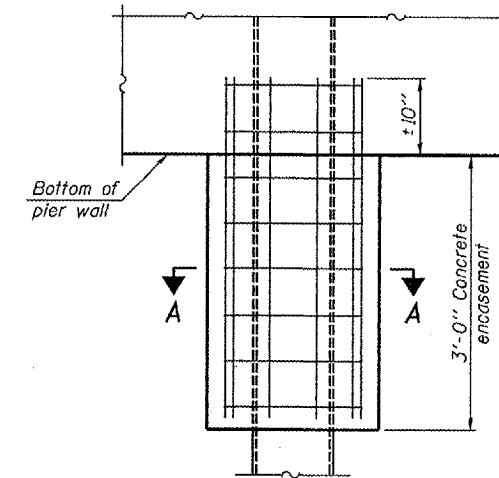
Designation	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)	Encasement diameter A
PP12	0.179"	22.60	0.0274	30"
PP12	0.250"	31.37	0.0267	30"
PP14	0.250"	36.71	0.0368	30"
PP14	0.312"	45.61	0.0361	30"



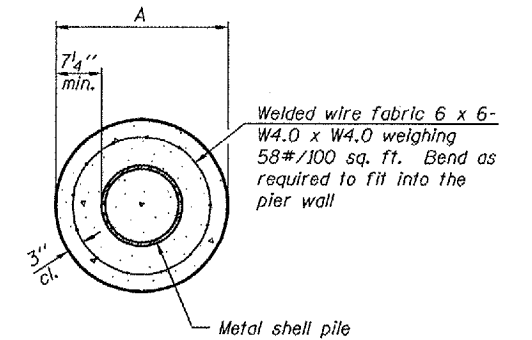
DETAIL A

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



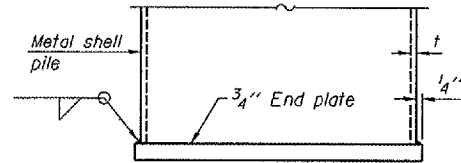
ELEVATION



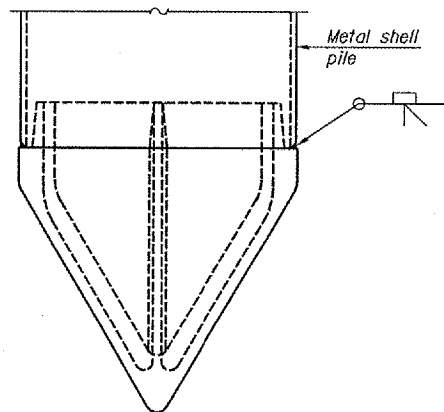
SECTION A-A

Notes:
See Metal Shell Pile Table for dimension "A".
Forms for encasement may be omitted when soil conditions permit.

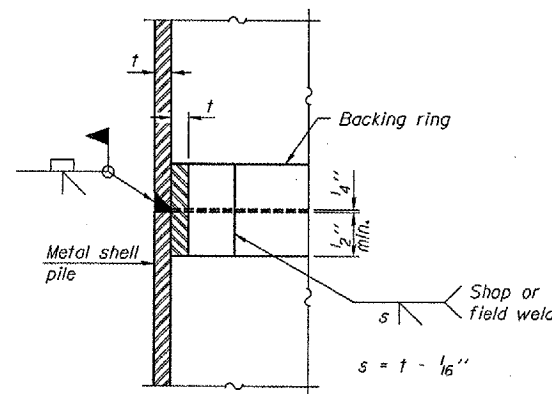
CONCRETE ENCASUREMENT AT PIERS



END PLATE ATTACHMENT

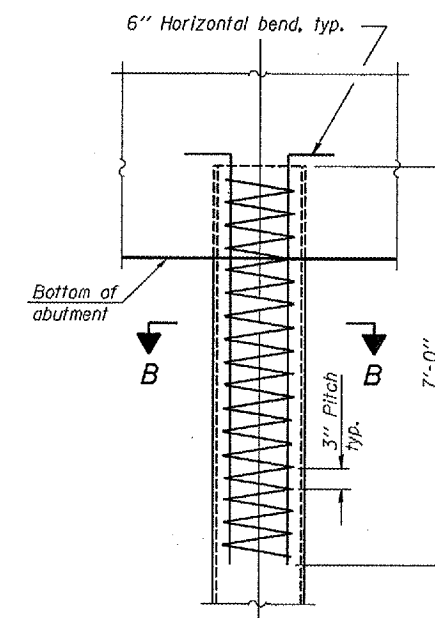


METAL SHELL PILE SHOE ATTACHMENT

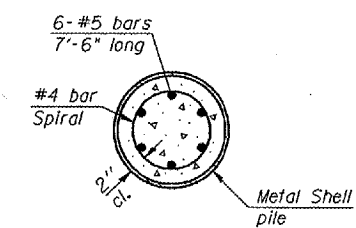


COMPLETE PENETRATION WELD SPLICE

Backing ring made from pile shell. Remove segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

Jan 23, 2007
EXAMINED *Thomas J. Donagale*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

F-MS 11-1-06

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

METAL SHELL PILE DETAILS
F.A.P. RT. 662 SECTION (V.T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 17
FAP 662	(V,T)B-2	MACOUPIN	60	40	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #72993

NOTES

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

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_1$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_1$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_1 = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

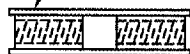
The diameter of this part is the same as the diameter of the bar spliced.
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

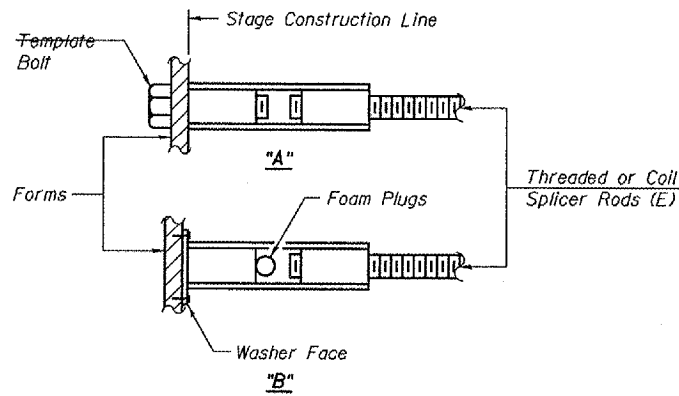
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

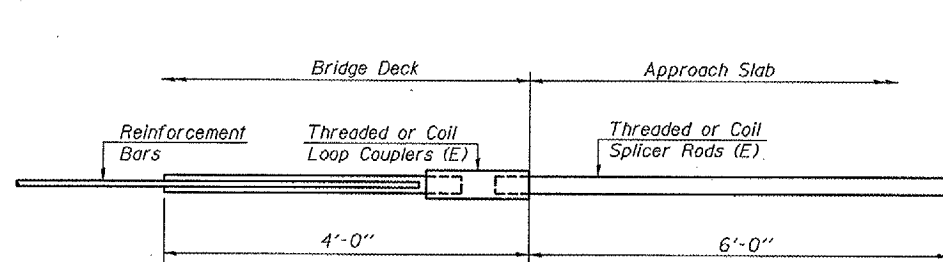
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

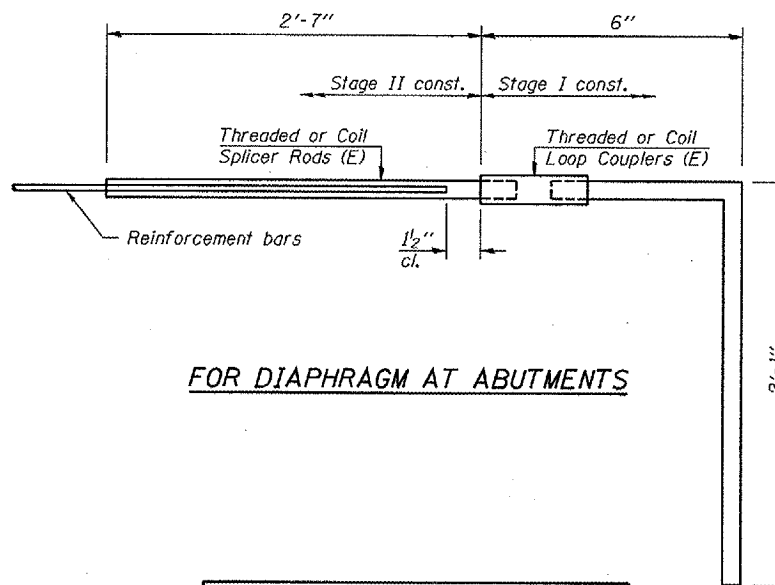
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

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	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



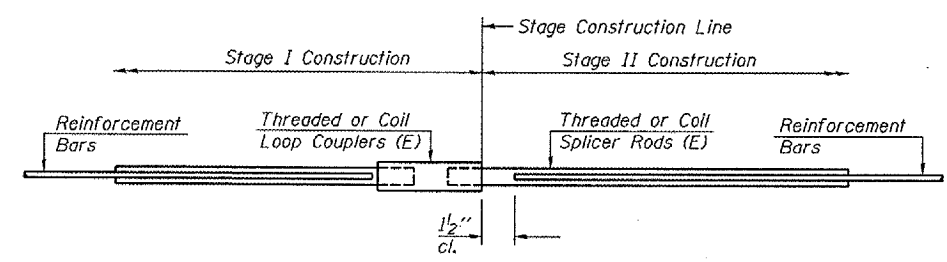
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 70



FOR DIAPHRAGM AT ABUTMENTS

Bar Splicer for #6 bar
Min. Capacity = 33.1 kips - tension
Min. Pull-out Strength = 17.4 kips - tension
No. Required = 6



STANDARD

Bar Size	No. Assemblies Required	Location
#5	245	Slab
#6	10	Diaphragm
#7	24	Abutment cap

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

Jan 23, 2007
EXAMINED *Thomas J. Domagalick*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

BAR SPLICER ASSEMBLY DETAILS
F.A.P. RT. 662 SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	PROJECT NO.	SHEET NO.
FAP 662	(V,T)B-2	MACOUPIN	68	50A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract #72993

SHEET NO. 20
20 SHEETS

Illinois Department of Transportation
Division of Highways
SOIL BORING LOG

Page 1 of 3
Date 9/30/92

ROUTE FAP 662 (IL 4) DESCRIPTION over Honey Creek LOGGED BY M. Teppan

SECTION (V,T)B-1 LOCATION NE 14, SEC. 24, TWP. 9 N, RNG. 7 W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 059-0504 Ex
Station 447+04

BORING NO. 3 N. Abut
Station 446+29
Offset 13.0ft
Ground Surface Elev. 602.4 ft

DEPTH (ft)	SOIL DESCRIPTION	WATER	REMARKS	DEPTH (ft)	SOIL DESCRIPTION	WATER	REMARKS
0	Brown and Gray Moist CLAY LOAM (fill)			0	Grey V. Moist LOAM to SAND LOAM		
1				0			
2				0			
3				0			
4				0			
5				0			
6				0			
7				0			
8				0			
9				0			
10				0			
11				0			
12				0			
13				0			
14				0			
15				0			
16				0			
17				0			
18				0			
19				0			
20				0			
21				0			
22				0			
23				0			
24				0			
25				0			
26				0			
27				0			
28				0			
29				0			
30				0			

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced by Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Soating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SOIL BORING LOG

Page 2 of 3
Date 9/30/92

ROUTE FAP 662 (IL 4) DESCRIPTION over Honey Creek LOGGED BY M. Teppan

SECTION (V,T)B-1 LOCATION NE 14, SEC. 24, TWP. 9 N, RNG. 7 W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 059-0504 Ex
Station 447+04

BORING NO. 3 N. Abut
Station 446+29
Offset 13.0ft
Ground Surface Elev. 602.4 ft

DEPTH (ft)	SOIL DESCRIPTION	WATER	REMARKS	DEPTH (ft)	SOIL DESCRIPTION	WATER	REMARKS
0	Grey Moist CLAY LOAM (fill) (continued)			0	Grey Moist CLAY LOAM (fill) (continued)		
1				1			
2				2			
3				3			
4				4			
5				5			
6				6			
7				7			
8				8			
9				9			
10				10			
11				11			
12				12			
13				13			
14				14			
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16				16			
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21				21			
22				22			
23				23			
24				24			
25				25			
26				26			
27				27			
28				28			
29				29			
30				30			

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced by Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Soating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SOIL BORING LOG

Page 3 of 3
Date 9/30/92

ROUTE FAP 662 (IL 4) DESCRIPTION over Honey Creek LOGGED BY M. Teppan

SECTION (V,T)B-1 LOCATION NE 14, SEC. 24, TWP. 9 N, RNG. 7 W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 059-0504 Ex
Station 447+04

BORING NO. 3 N. Abut
Station 446+29
Offset 13.0ft
Ground Surface Elev. 602.4 ft

DEPTH (ft)	SOIL DESCRIPTION	WATER	REMARKS	DEPTH (ft)	SOIL DESCRIPTION	WATER	REMARKS
0	Grey Medium to Coarse Grained SANDY GRAVEL (continued)			0	Grey Medium to Coarse Grained SANDY GRAVEL (continued)		
1				1			
2				2			
3				3			
4				4			
5				5			
6				6			
7				7			
8				8			
9				9			
10				10			
11				11			
12				12			
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30				30			

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced by Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Soating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, form 137 (Rev. 8-99)

BORING LOGS
F.A.P. RT. 662 SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(V,T)B-2	MACOUPIN	68	52
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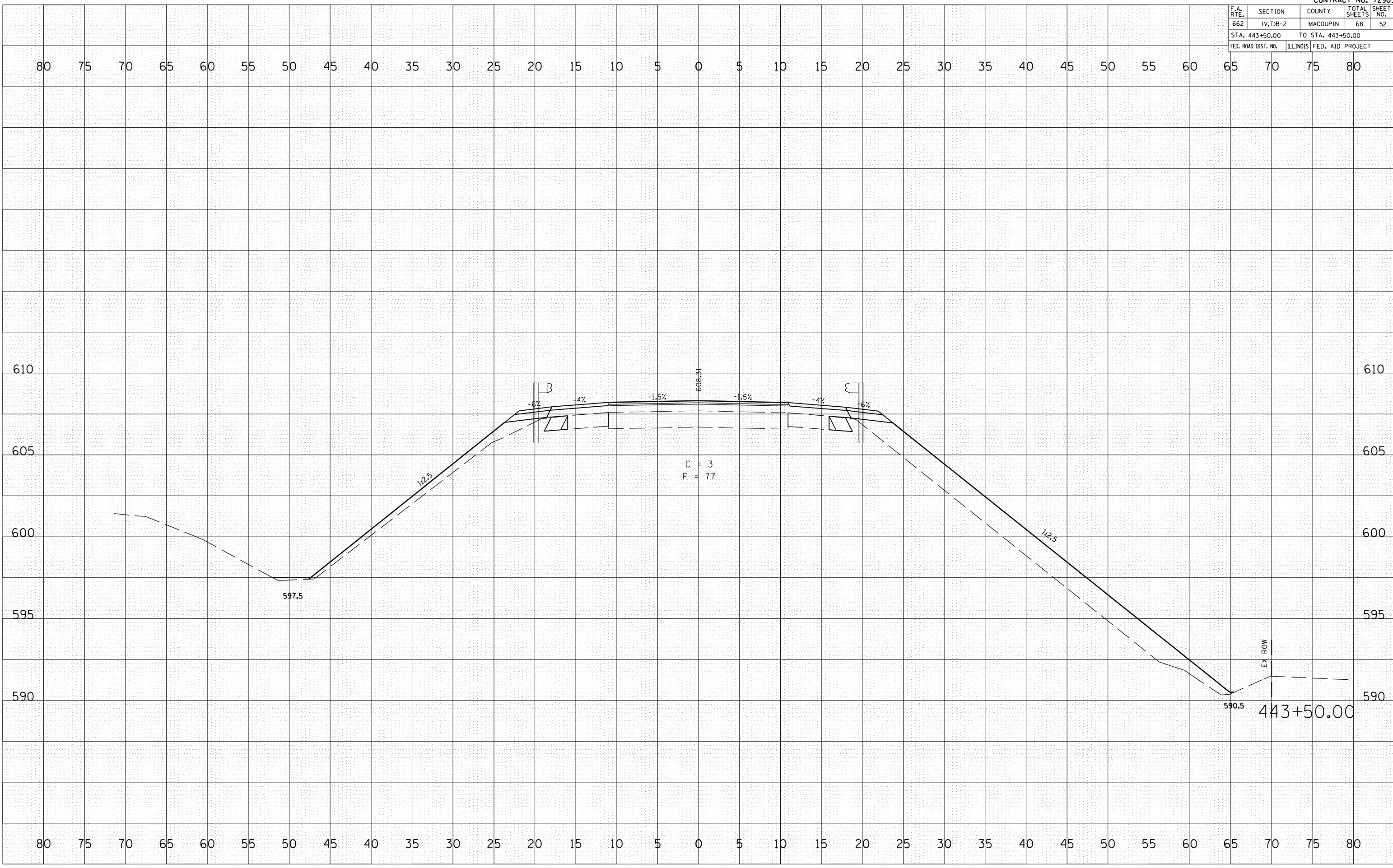
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BY	DATE

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EX ROW
 443+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(V,T)B-2	MACOUPIN	68	53
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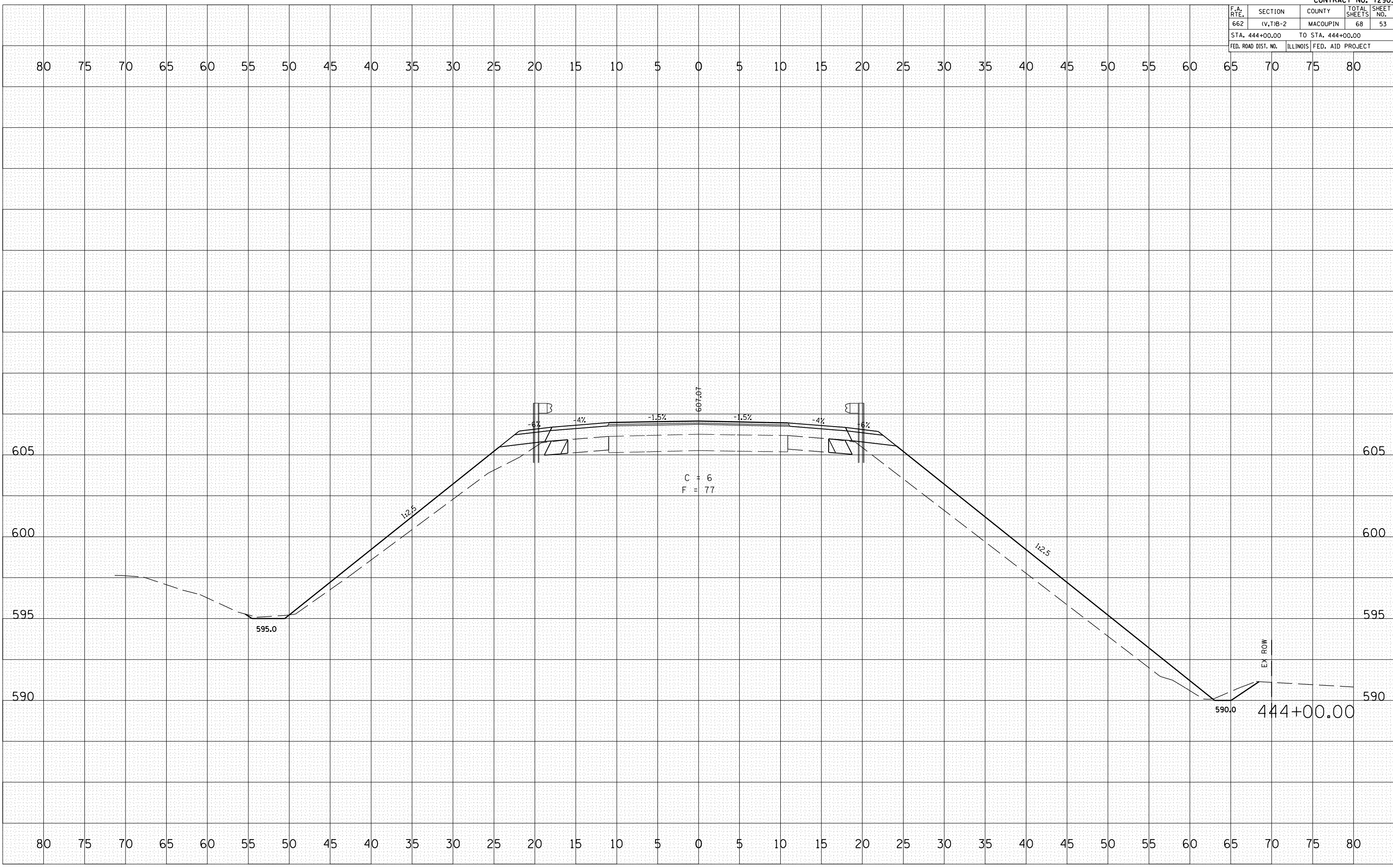
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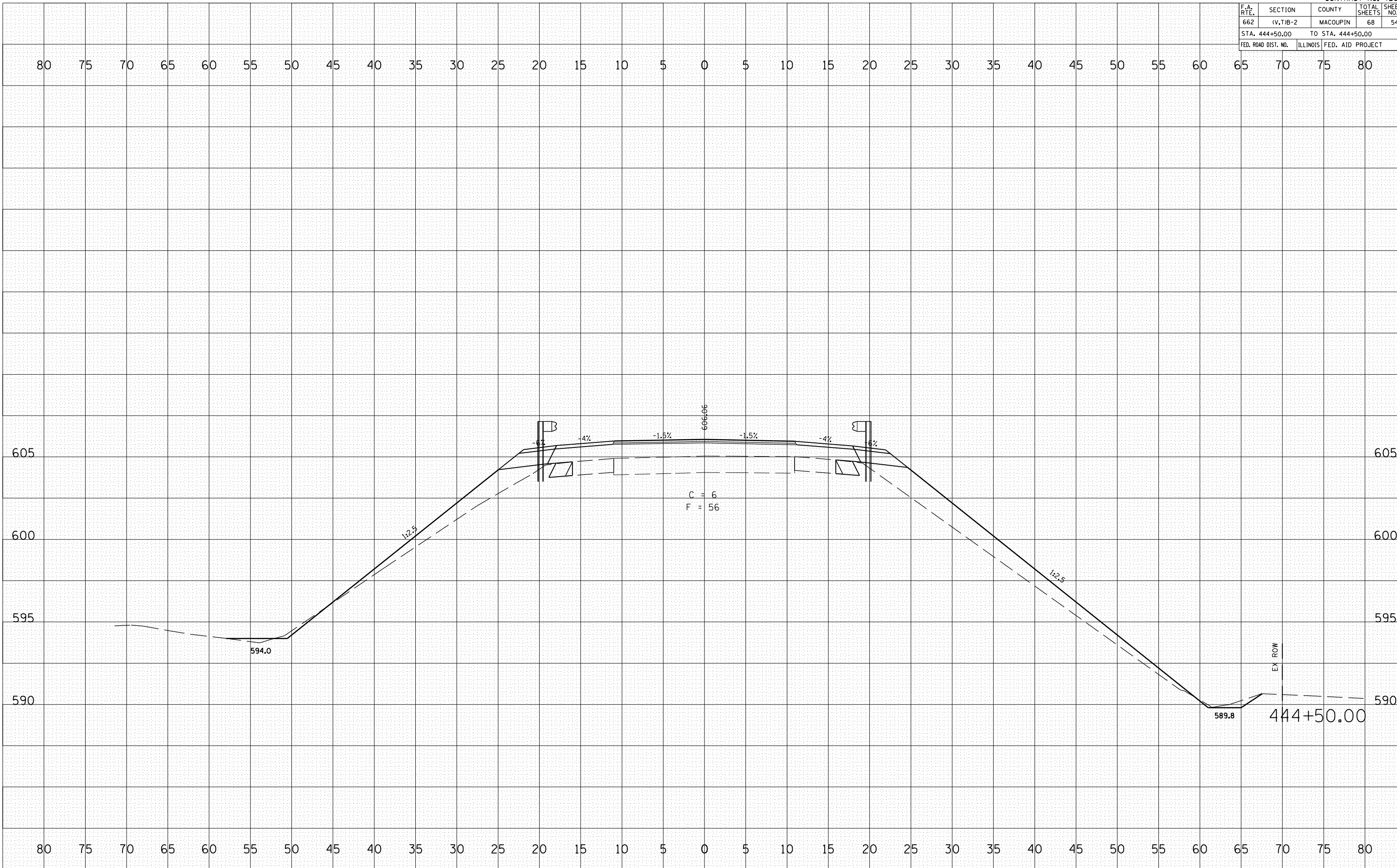
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BY _____ DATE _____

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NOTE BOOK PLOTTED _____

NO. AREAS CHECKED _____

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NOTE BOOK PLOTTED _____

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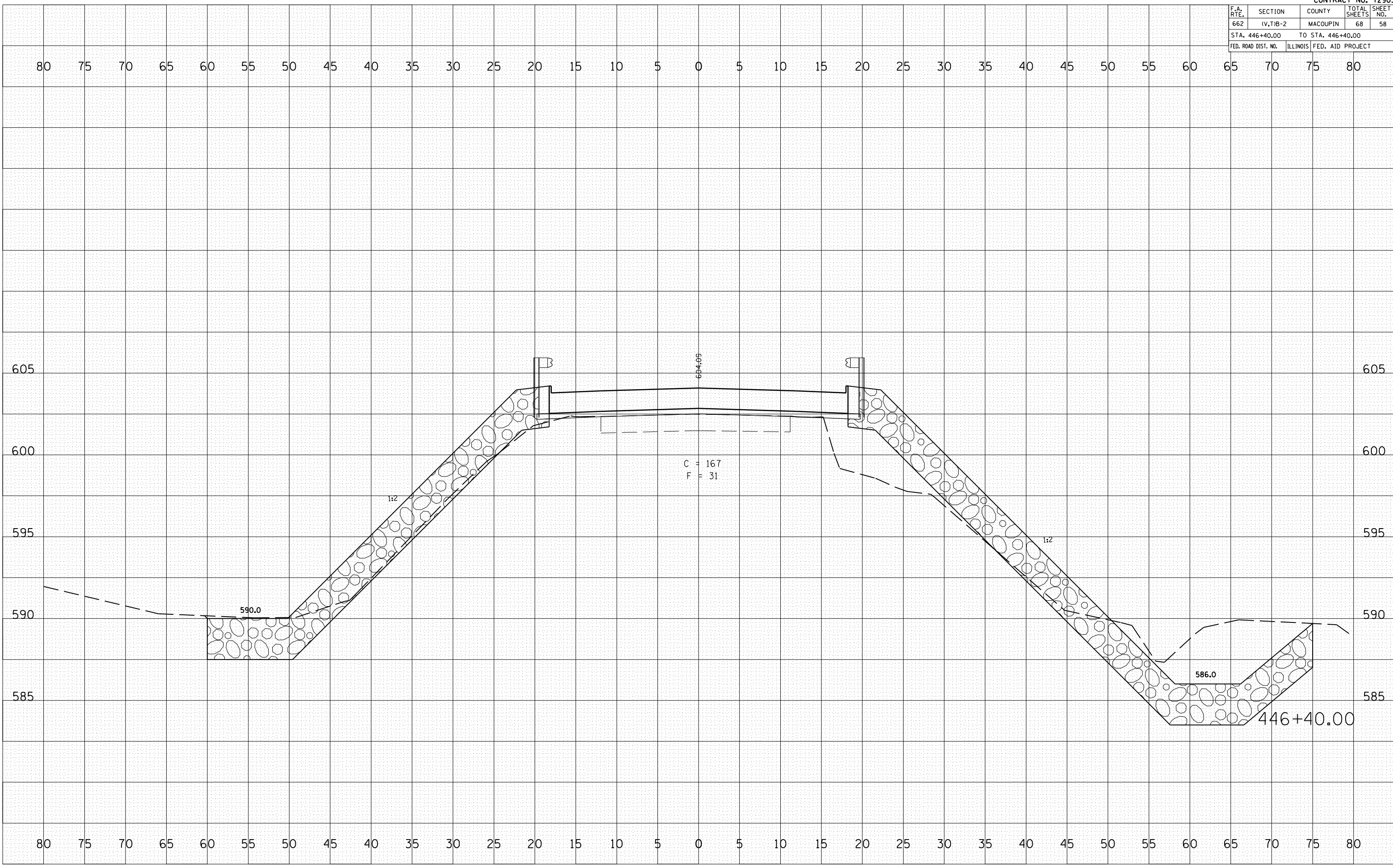
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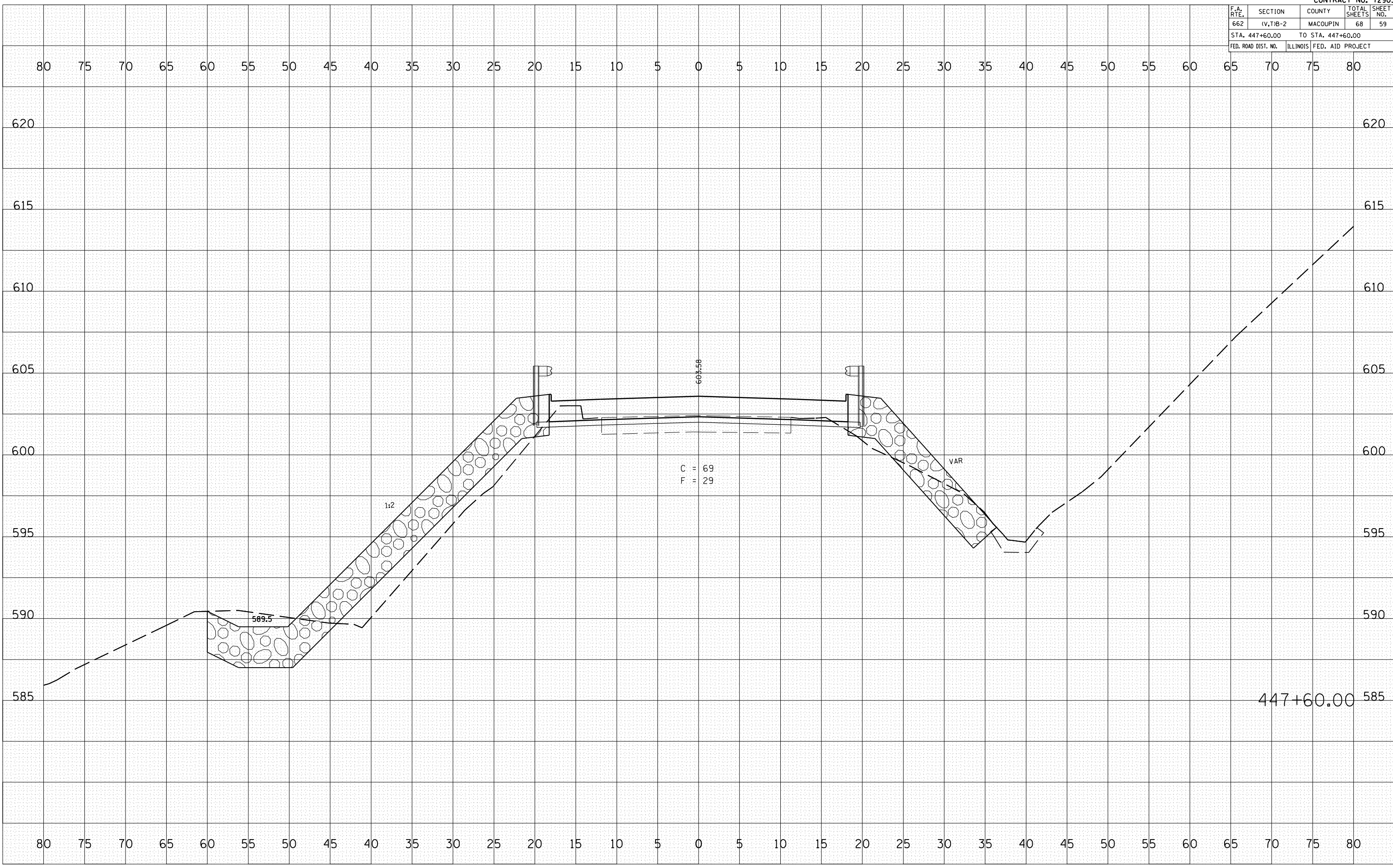
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662	(V,T)B-2	MACOUPIN	68	60
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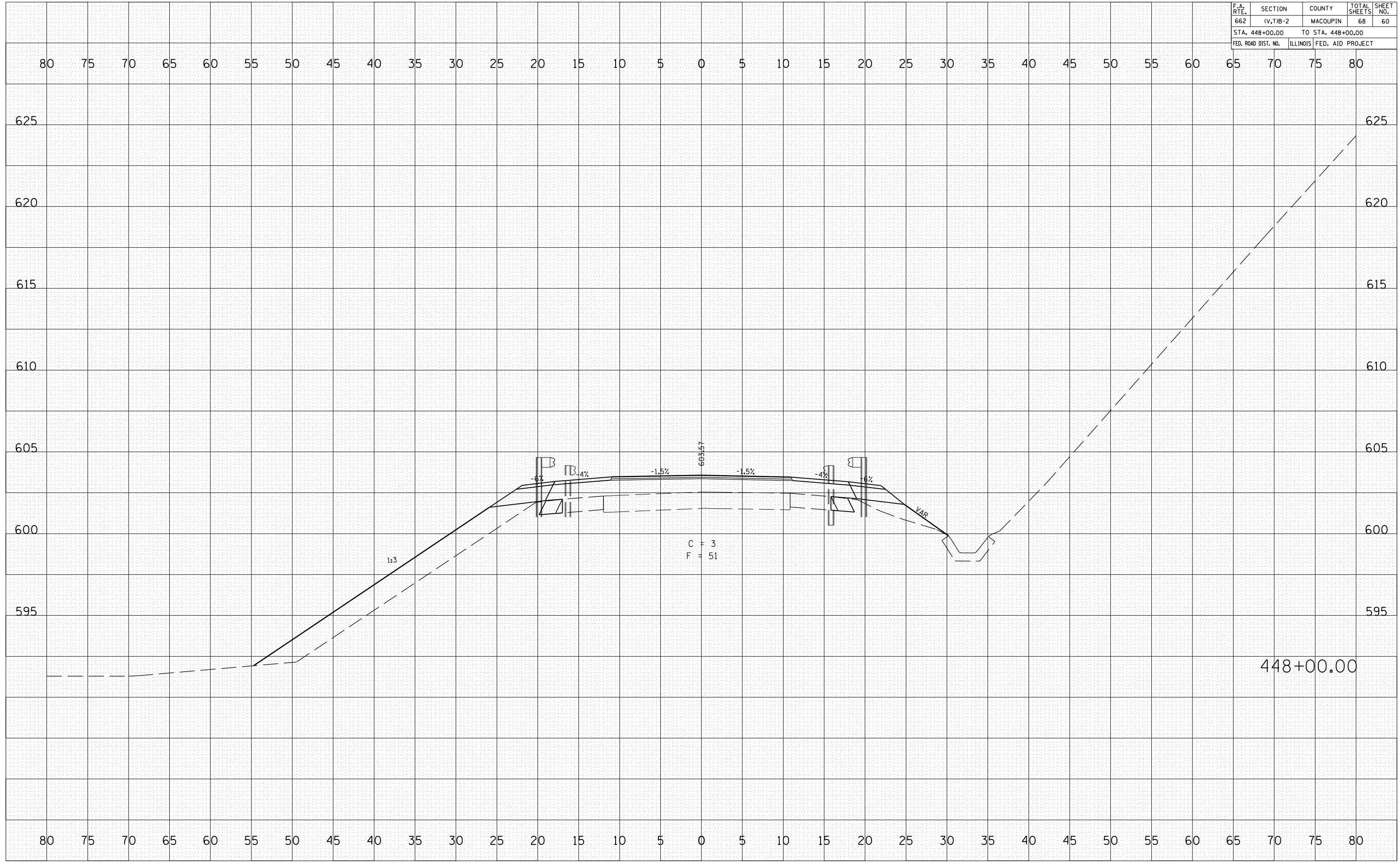
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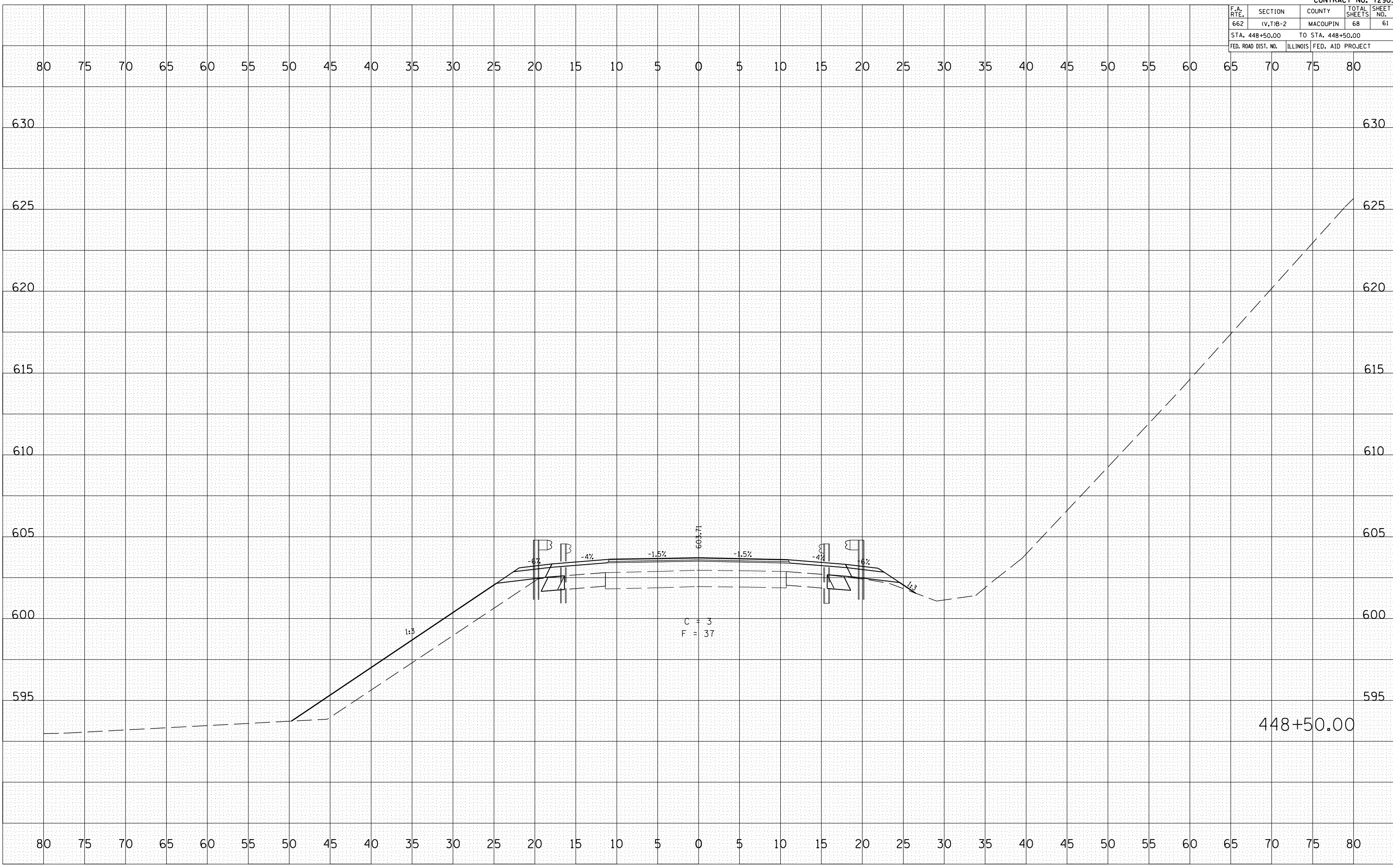
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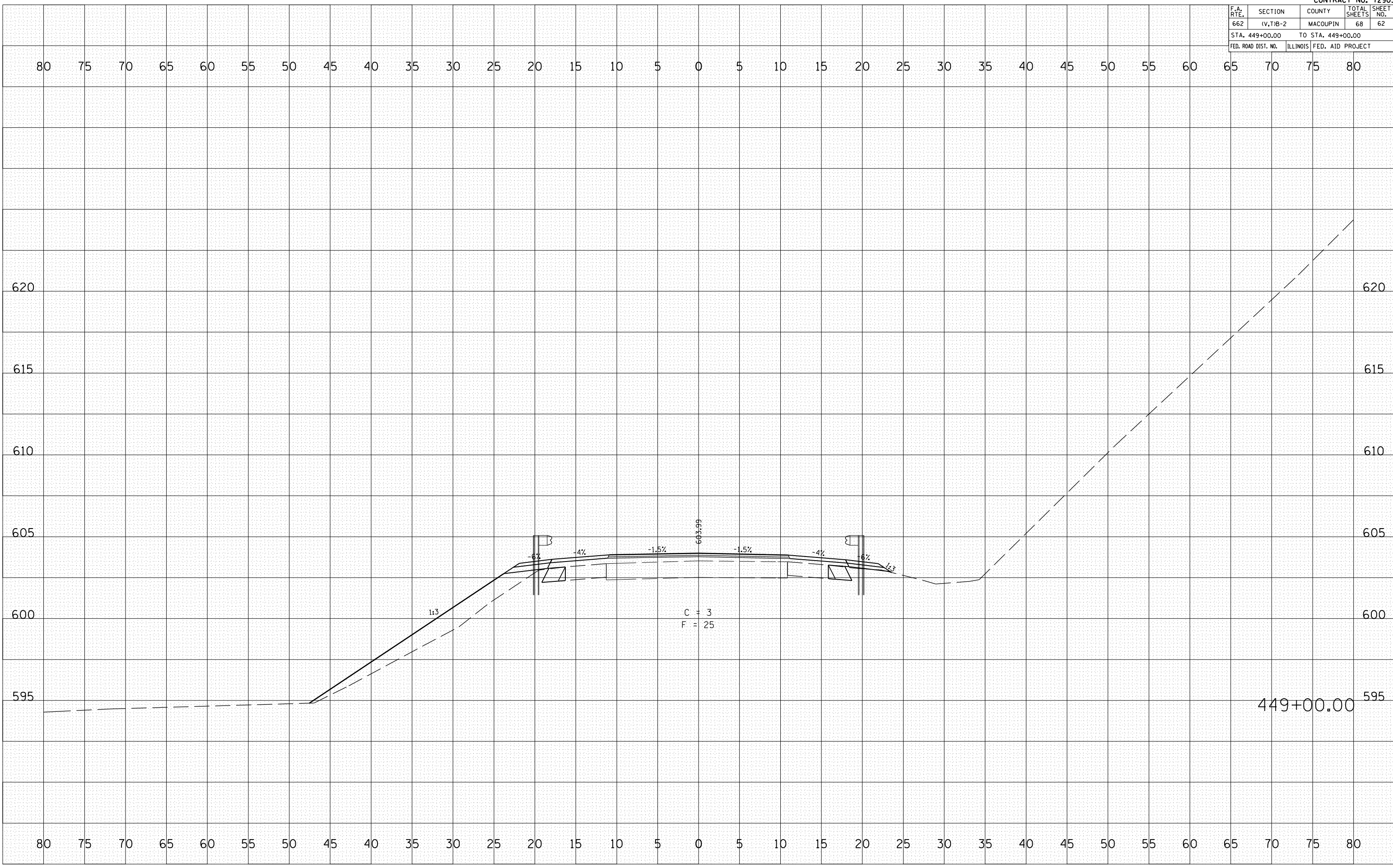
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620 620

615 615

610 610

605 605

600 600

595 595

449+00.00

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(V,T)B-2	MACOUPIN	68	65
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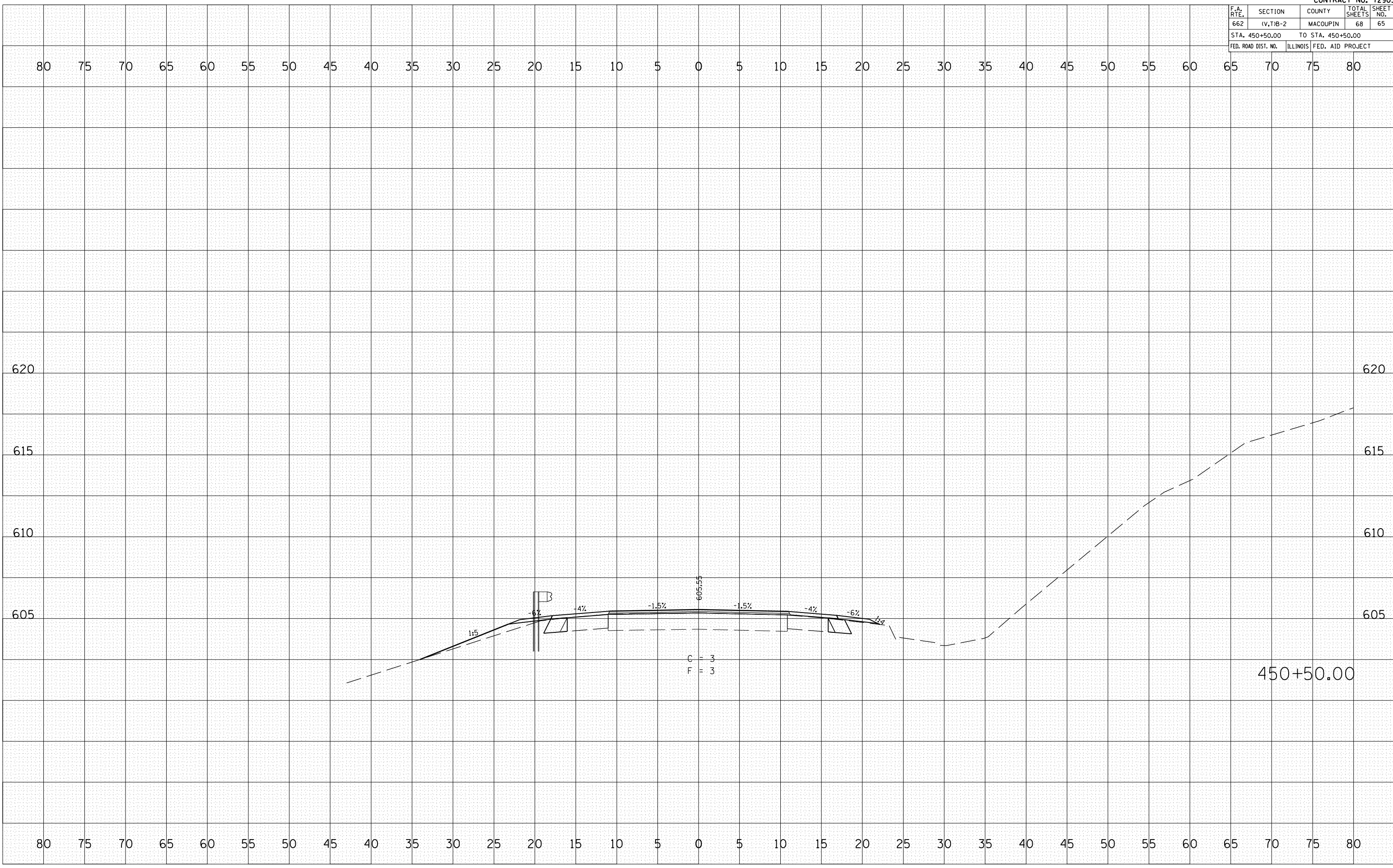
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(V,T)B-2	MACOUPIN	68	66
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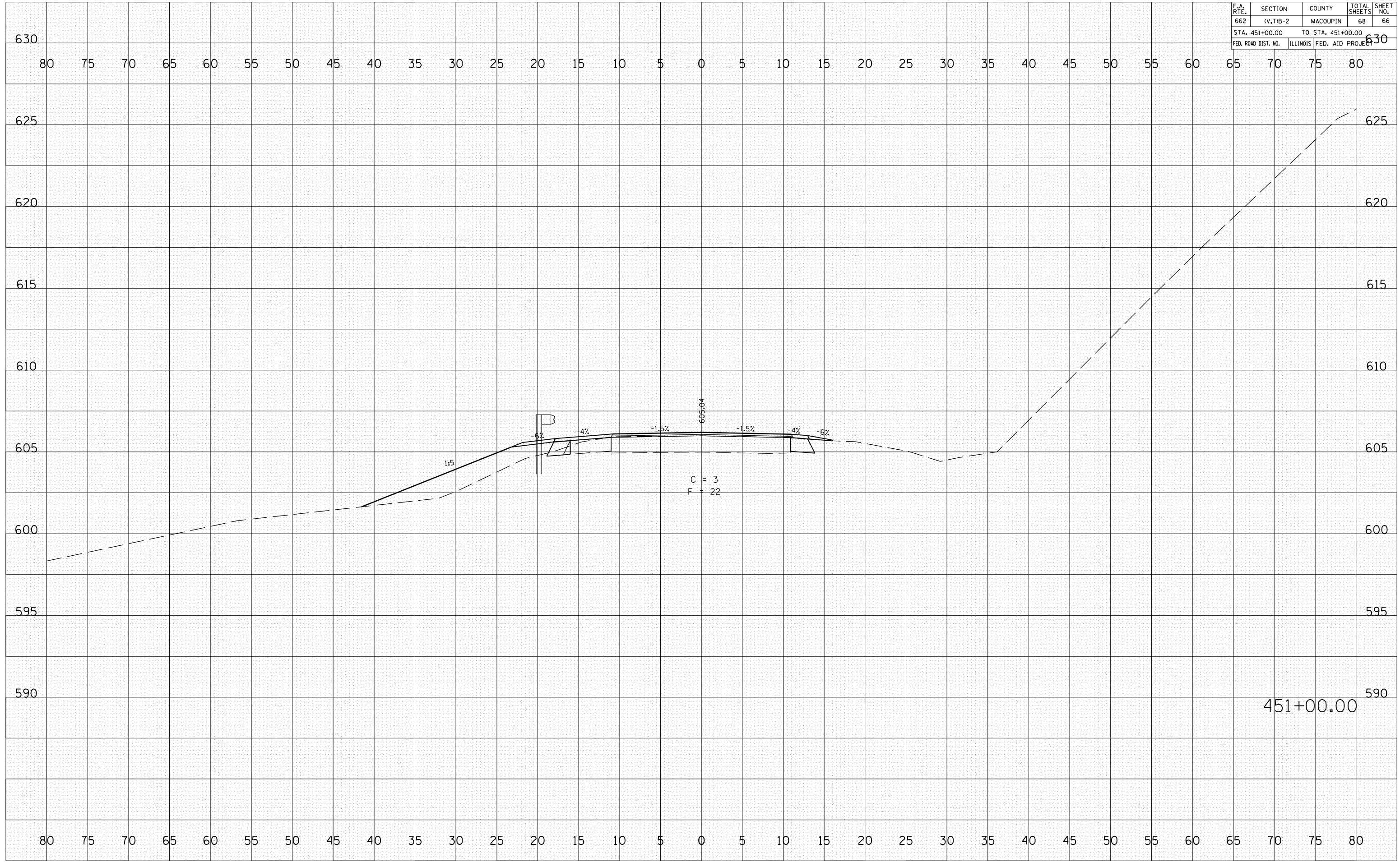
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(V,T)B-2	MACOUPIN	68	67
STA. 451+50.00 TO STA. 451+50.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	DATE

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