CONTRACT NO. 66583

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	1

3-10-06 Letting, Item 011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

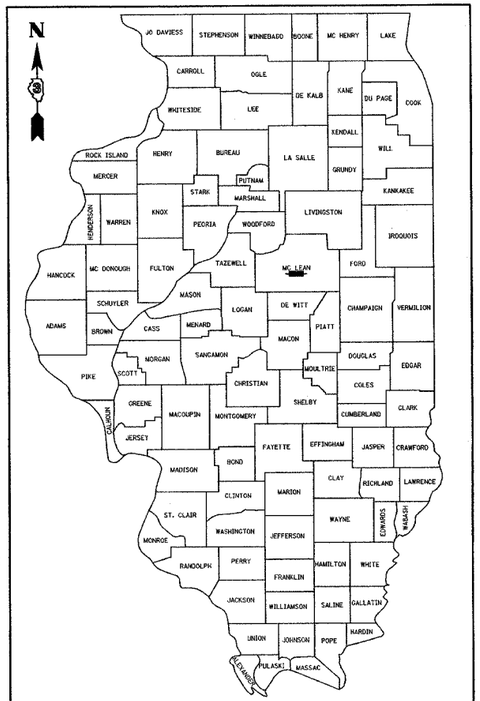
FAP ROUTE 693 (IL 9)
SECTION 22 BR
PROJECT BHF-0693(055)
Mc LEAN COUNTY

C – 93 – 090 – 05

FOR INDEX OF SHEETS, SEE SHEET NO. 2

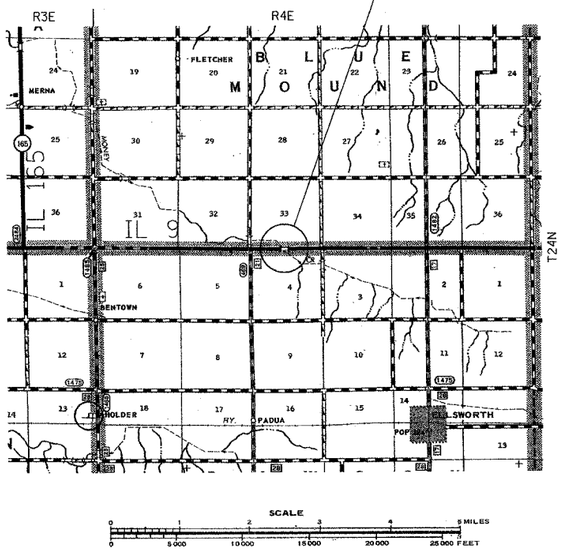
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

D-93-054-05



LOCATION OF SECTION INDICATED THUS: –

PROJECT LOCATION
SECTION 22 BR INCLUDES:
BRIDGE SUPERSTRUCTURE REPLACEMENT:
REPLACE SUPERSTRUCTURE ON SN 057-0076 (STA 1917+17.38)
RESURFACING FROM
STA 1914+50 TO STA 1919+60



ADT (2003) = 2,750
MU = 3.3%

0	100'	200'	300'	— 1"=	100'					
0	10'	20'	30'	— 1"=	10'					
0	50'	100'		— 1"=	50'					
0	50'	100'		— 1"=	40'					
0	50'	100'		— 1"=	30'					
0	50'	100'		— 1"=	20'					

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

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____

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

DISTRICT 3 NO. (815) 434–6131

PROJECT ENGINEER: DAVE BROVIAK
UNIT CHIEF: MARK JONES

GROSS LENGTH = 510.0 FT. = 0.097 MI.
NET LENGTH = 510.0 FT. = 0.097 MI.

MARY H. BLODGETT
43206
REGISTERED PROFESSIONAL ENGINEER OF
ILLINOIS

Mary Blodgett 12-14-05
Exp. 11-30-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____

Gregg P. Martin
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 3, 2006
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT

February 3 20 06
Milton R. Sees, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PLOT DATE = 12/15/2005
FILE NAME = ...\05\05084\050804-1\s0\cover.dgn
PLOT SCALE = 1.000000 / IN.
USER NAME = CPC

CONTRACT NO. 66583

CONTRACT NO. 66583

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND A FOOT
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
515001-02	NAME PLATE FOR BRIDGES
630001-05	STEEL PLATE BEAM GUARDRAIL
630201-03	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAILS
630301-03	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-01	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKERS AND MOUNTING DETAILS
701006-02	OFF-ROAD OPERATIONS 2L, 2W, 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY ON-ROAD TO 600 mm (24") OFF-ROAD FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATION - DAY ONLY
701321-08	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-02	LANE CLOSURE, 2L, 2W PAVEMENT WIDENING FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
702001-05	TRAFFIC CONTROL DEVICES
704001-02	TEMPORARY CONCRETE BARRIER
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

NO TREES ARE TO BE REMOVED IN THIS CONTRACT. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS MAT PRIME COAT	.08	GAL/SQ YD
AGGREGATE PRIME COAT	0.002	TONS/SQ YD
BITUMINOUS RESURFACING	112	LBS/SQ YD/IN DEPTH
SHORT TERM PAVEMENT MARKING	10	FT/100 FT OF APPLICATION
TEMPORARY DITCH CHECKS	9	BALES

NO UTILITIES ARE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT.

COMMITMENTS

THIS PROJECT DOES NOT HAVE THE NECESSARY PERMITS TO ALLOW IN-STREAM WORK.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Rick Powell
DISTRICT STUDIES & PLANS ENGINEER

DATE: 12-20-05

EXAMINED BY:
DISTRICT CONSTRUCTION ENGINEER
DISTRICT OPERATIONS ENGINEER
DISTRICT MATERIALS ENGINEER

REVISIONS NAME	DATE

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES
IL ROUTE 9 OVER MONEY CREEK
FAP RT 693, SECTION 22 BR
MC LEAN COUNTY

SCALE: DRAWN BY CFC
DATE CHECKED BY MCB

PLOT DATE = 12/15/2005
FILE NAME = n:\22bb4-1\d\general-notes.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = CFC

CONTRACT NO. 66583

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

				80% FED 20% STATE			
				ROADWAY	SN 057-0076	SFTY-3N	
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QNTY	X080-2A	X080-2A		
20200100	EARTH EXCAVATION	CU YD	85	85	0		
20400800	FURNISHED EXCAVATION	CU YD	49	49	0		
25000200	SEEDING, CLASS 2	ACRE	0.25	0.25	0		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9.9	9.9	0		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9.9	9.9	0		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9.9	9.9	0		
25100115	MULCH, METHOD 2	ACRE	0.25	0.25	0		
25100630	EROSION CONTROL BLANKET	SQ YD	532	532	0		
28000300	TEMPORARY DITCH CHECKS	EACH	4	4	0		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	11	11	0		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	111	111	0		
40600300	AGGREGATE (PRIME COAT)	TON	3	3	0		
40600990	TEMPORARY RAMP	SQ YD	43	43	0		
44000075	BITUMINOUS SURFACE REMOVAL (COLD MILLING)	SQ YD	1383	1383	0		
48200700	BITUMINOUS SHOULDERS 9"	SQ YD	536	536	0		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	0	1		
50102400	CONCRETE REMOVAL	CU YD	2.5	0	2.5		
50300225	CONCRETE STRUCTURES	CU YD	4.7	0	4.7		
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1216	0	1216		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3340	0	3340		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	360	0	360		
△ 50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	145	0	145		
51500100	NAME PLATES	EACH	1	0	1		
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	148	0	148		
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	368	0	368		
△ 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	400	400	0		
△ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	0		
△ 63100169	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)	EACH	4	4	0		
63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	360	360	0		
△ 63300205	REMOVAL AND REINSTALLATION OF EXISTING STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	80	80	0		
△ 63300410	REMOVAL AND REINSTALLATION OF EXISTING TRAFFIC BARRIER TERMINAL, TYPE 1A	EACH	2	2	0		
△ 63300445	REMOVAL AND REINSTALLATION OF EXISTING TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2	2	0		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	0		
67100100	MOBILIZATION	L SUM	1	1	0		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	0		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	0		

△ SPECIALTY ITEMS

PLOT DATE = 12/15/2005
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PLOT SCALE = 1.0000 / IN.
USER NAME = CFC

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL ROUTE 9 OVER MONEY CREEK
FAP RT 693, SECTION 22 BR
MC LEAN COUNTY

SCALE:
DATE

DRAWN BY CFC / TFG
CHECKED BY MCB

CONTRACT NO. 66583

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

				80% FED 20% STATE			
				ROADWAY	SN 057-0076	SFTY-3N	
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QNTY	X080-2A	X080-2A		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	0		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	0		
70103815	TRAFFIC CONTROL SURVEILANCE	CAL DA	13	13	0		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	0		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	378	378	0		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	101	101	0		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	375	375	0		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350	0		
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1510	1510	0		
△ 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	189	189	0		
△ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	6	0		
78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	0		
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	0		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	541	541	0		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6	0		
X0321743	SILICONE JOINT SEALER, 1"	FOOT	47	0	47		
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	131	117	14		
△ Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	22	0	22		
Z0002600	BAR SPLICERS	EACH	6	0	6		
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	0	0	2	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	0	0	2	

△ SPECIALTY ITEMS

PLOT DATE = 12/15/2005
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PLOT SCALE = 50.0000 ' / IN.
USER NAME = CFC

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

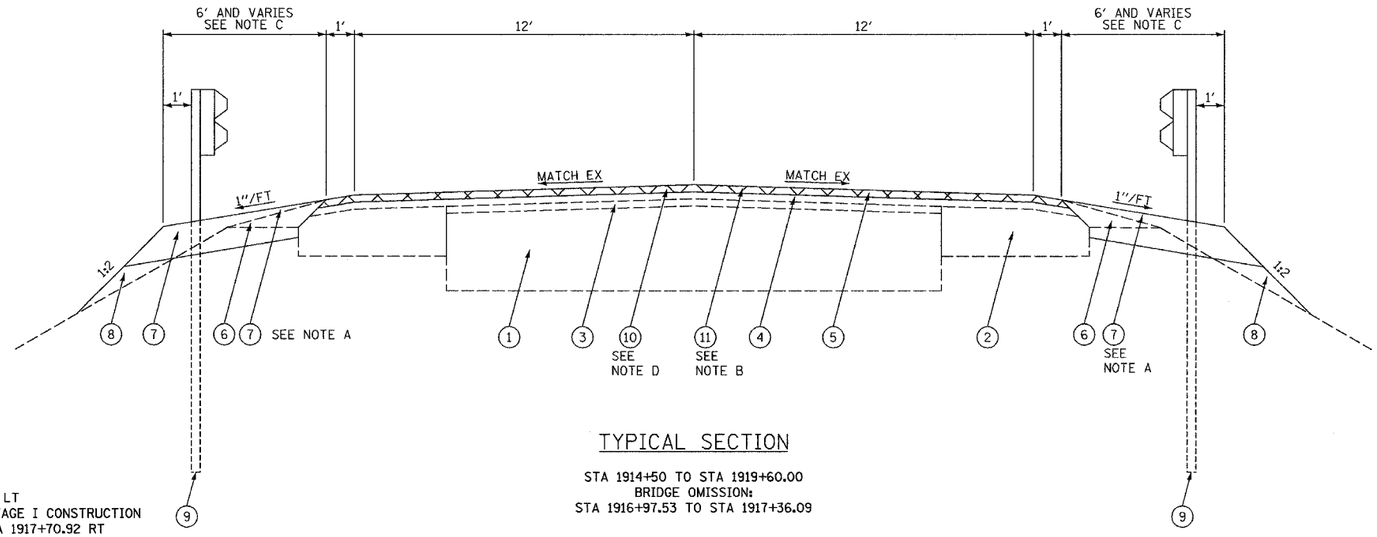
SUMMARY OF QUANTITIES
IL ROUTE 9 OVER MONEY CREEK
FAP RT 693, SECTION 22 BR
MC LEAN COUNTY

SCALE:
DATE

DRAWN BY CFC / TFG
CHECKED BY MCB

CONTRACT NO. 66583

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION

STA 1914+50 TO STA 1919+60.00
BRIDGE OMISSION:
STA 1916+97.53 TO STA 1917+36.09

NOTE A:
BITUMINOUS SHOULDERS, 9" STA 1914+50 LT TO STA 1916+62.72 LT
AND FROM STA 1917+31.48 LT TO STA 1919+50 LT PRIOR TO STAGE I CONSTRUCTION
AND FROM STA 1915+10 RT TO STA 1917+02.15 RT AND FROM STA 1917+70.92 RT
TO STA 1919+55.66 RT IN STAGE II

NOTE B:
BITUMINOUS SURFACE REMOVAL & OVERLAY WILL BE IN BOTH LANES (MINUS BRIDGE OMISSION)
STA 1914+50 TO STA 1919+60 AND AT APPROACH BEAMS

NOTE C:
WIDTH OF BITUMINOUS SHOULDERS WILL BE 6', EXCEPT AT TBT-TY 1 SPECIAL (FLARED).
AT THE FLARED END, THE WIDTH WILL BE 8'-1" AND IT WILL TAPER AT 24:1 OVER 50' TO
6' AT SPBGR END OF TERMINAL SECTION. WHERE THERE IS NO GUARDRAIL, WIDTH OF
BITUMINOUS SHOULDERS WILL BE 3'-6"

NOTE D:
BITUMINOUS SURFACE REMOVAL STA 1917+36.09 TO STA 1917+39.62 WILL BE 2 3/4" DEPTH
TO ACCOMODATE WATERPROOFING EXTENSION. SEE BRIDGE PLANS FOR DETAIL.

(1) EX PAVEMENT

(2) EX BITUMINOUS CONCRETE BASE COURSE WIDENING, 9"

(3) EX LEVELING BINDER (MACH METHOD)

(4) EX BITUMINOUS CONCRETE BINDER CSE

(5) EX BITUMINOUS CONCRETE SURFACE CSE, MIX D, CL I

(6) EX EARTH SHOULDER

(7) PR BITUMINOUS SHOULDERS, 9"
(SEE MIX TABLE FOR DETAILS)

(8) PR FURNISHED EXCAVATION

(9) PR STEEL PLATE BEAM GUARDRAIL, TYPE A OR
TRAFFIC BARRIER TERMINAL, TYPE 6A OR
TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARED)

(10) PR BITUMINOUS SURFACE REMOVAL, 1 1/2"

(11) PR BITUMINOUS CONCRETE SURFACE CSE, SUPERPAVE 1 1/2"
(SEE MIX TABLE FOR DETAILS)

MIX DESIGN TABLE

	SUPERPAVE SURFACE	SUPERPAVE SHOULDERS
PG GRADE	PG 64-22	PG 58-22
MAX % RAP ALLOWABLE **	15%	30%
DESIGN AIR VOIDS	4% @ N50	2.0% @ N30
MIXTURE COMPOSITION	IL 12.5 OR IL 9.5	BAM
FRICTION AGGREGATE	MIXTURE C	
PLANT CONTROL LIMITS	CLASS I	NON-CLASS I
DENSITY TEST METHOD	CORES/NUCLEAR	*

* MATERIAL SHALL BE COMPACTED TO 93-97 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT THE BOTTOM LIFT SHALL BE COMPACTED TO A MINIMUM OF 91.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

PLOT DATE = 12/15/2005
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PLOT SCALE = 2.5000 ' / IN.
USER NAME = CFC

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
IL ROUTE 9 OVER MONEY CREEK
FAP RT 693, SECTION 22 BR
MC LEAN COUNTY

SCALE: 1"=40'
DRAWN BY CFC / TFG
DATE
CHECKED BY MCB

CONTRACT NO. 66583

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GUARDRAIL REMOVAL SCHEDULE

LOCATION	SPBGR REM	REM & REINS FOR TRAFFIC STAGING SPBGR, TY A	TBT TY 1A	TBT, TY 5A
	FOOT	FOOT	EACH	EACH
LT STA 1915+67.35 TO STA 1916+59.23	91.88	41.13	1	1
RT STA 1916+10.82 TO STA 1917+02.15	91.33			
LT STA 1917+31.48 TO STA 1918+20.06	88.58	37.83	1	1
RT STA 1917+74.41 TO STA 1918+62.76	88.35			
TOTAL	360.14	80	2	2

PROPOSED STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS

LOCATION	TBT TY 6A	SPBGR TYA	TBT TY 1	G/R MKR TY A	TERM MKR DIR APP
	EACH	FOOT	EACH	EACH	EACH
LT STA 1914+77.98 TO STA 1915+27.98			1		1
LT STA 1915+27.98 TO STA 1916+27.98		100		2	
LT STA 1916+27.98 TO STA 1916+59.23	1				
LT STA 1917+31.48 TO STA 1917+62.73	1				
LT STA 1917+62.73 TO STA 1918+62.73		100		2	
LT STA 1918+62.73 TO STA 1919+12.73			1		1
RT STA 1915+20.90 TO STA 1915+70.90			1		1
RT STA 1915+70.90 TO STA 1916+70.90		100		2	
RT STA 1916+70.90 TO STA 1917+02.15	1				
RT STA 1917+74.41 TO STA 1918+05.66	1				
RT STA 1918+05.66 TO STA 1919+05.66		100		2	
RT STA 1919+05.66 TO STA 1919+55.66			1		1
TOTALS	4	400	4	8	4

SHORT TERM PAVEMENT MARKING SCHEDULE

DESCRIPTION	LOCATION	LENGTH	SHORT TERM
		FOOT	FOOT
4" SKIP-DASH CENTERLINE	STA 1913+46.50 TO STA 1921+01.50	755	75.5
TEMPORARY EDGE LINES	STA 1913+46.50 TO STA 1921+01.50	755	121
TOTAL			197

WORK ZONE PAVEMENT MARKING REMOVAL SCHEDULE

DESCRIPTION	LOCATION	LENGTH	REMOVAL
		FOOT	SQ FT
STOP BAR	STA 1913+46.50		26.00
STOP BAR	STA 1921+01.50		26.00
TEMPORARY EDGE LINES	STA 1913+46.50 TO STA 1921+01.50 STAGE I	755	20.17
TEMPORARY EDGE LINES	STA 1913+46.50 TO STA 1921+01.50 STAGE II	755	20.17
CENTERLINE	STA 1913+46.50 TO STA 1914+50.00 (BETWEEN STOP BAR & MILLED SURF)	103.5	3.45
CENTERLINE	STA 1919+60.00 TO STA 1921+01.50 (BETWEEN MILLED SURF & STOP BAR)	141.5	4.72
TOTAL			100.51

SEEDING SCHEDULE

LOCATION	SEEDING CLASS 2	SEEDING CLASS 2	NITROGEN FERTILIZER NUTRIENTS	PHOSPHOROUS FERTILIZER NUTRIENTS	POTASSIUM FERTILIZER NUTRIENTS	MULCH METHOD 2	TEMPORARY EROSION CONTROL SEEDING	EROSION CONTROL BLANKET
	SQ FT	ACRES	LBS	LBS	LBS	ACRES	LBS	SQ YD
LT STA 1914+00.00 TO STA 1915+00.00	421.50	0.010	0.9	0.9	0.9	0.010	0.968	46.833
LT STA 1915+00.00 TO STA 1916+00.00	555.00	0.013	1.1	1.1	1.1	0.013	1.274	61.667
LT STA 1916+00.00 TO STA 1916+48.00	96.24	0.002	0.2	0.2	0.2	0.002	0.221	10.693
LT STA 1948+00.00 TO STA 1916+97.53	66.37	0.002	0.1	0.1	0.1	0.002	0.152	7.374
BR OMISSION STA 1916+97.53 TO STA 1917+36.09								
LT STA 1917+36.09 TO STA 1918+00.00	162.97	0.004	0.3	0.3	0.3	0.004	0.374	18.108
LT STA 1918+00.00 TO STA 1919+00.00	561.50	0.013	1.2	1.2	1.2	0.013	1.289	62.389
LT STA 1919+00.00 TO STA 1920+00.00	434.00	0.010	0.9	0.9	0.9	0.010	0.996	48.222
RT STA 1915+00.00 TO STA 1916+00.00	322.50	0.007	0.7	0.7	0.7	0.007	0.740	35.833
RT STA 1916+00.00 TO STA 1916+97.53	629.07	0.014	1.3	1.3	1.3	0.014	1.444	69.897
BR OMISSION STA 1916+97.53 TO STA 1917+36.09								
RT STA 1917+36.09 TO STA 1917+82.00	75.29	0.002	0.2	0.2	0.2	0.002	0.173	8.366
RT STA 1917+82.00 TO STA 1918+00.00	77.31	0.002	0.2	0.2	0.2	0.002	0.177	8.590
RT STA 1918+00.00 TO STA 1919+00.00	868.00	0.020	1.8	1.8	1.8	0.020	1.993	96.444
RT STA 1919+00.00 TO STA 1920+00.00	520.50	0.012	1.1	1.1	1.1	0.012	1.195	57.833
TOTALS	4790.25	* 0.25	9.9	9.9	9.9	* 0.25	11.0	532.3

*TOTALS ARE ROUNDED UP TO MINIMUM VALUE SHOWN IN BDE FIG. 64-1A

RESURFACING SCHEDULE (MAINLINE PAVEMENT)

LOCATION	BIT SURF REM, COLD MILLING 1 1/2"	BIT PRIME COAT	AGG PRIME COAT	BIT CONC SURF CSE SUPER, M1X C N50 1 1/2"
	SQ YD	GAL	TON	TON
STA 1914+50.00 TO STA 1916+97.53	715.1	57.21	1.43	60.1
SE APPROACH BEAM SHOULDER	6.7	0.54	0.01	0.6
NE APPROACH BEAM SHOULDER	3.6	0.29	0.01	0.3
BR OMISSION STA 1916+97.53 TO STA 1917+36.09				14.2
SW APPROACH BEAM SHOULDER	3.6	0.29	0.01	0.3
NW APPROACH BEAM SHOULDER	6.7	0.54	0.01	0.6
STA 1917+36.09 TO STA 1919+60.00	646.9	51.75	1.29	55.2
TOTALS	1382.6	110.60	2.77	131.3

SHOULDER SCHEDULE

LOCATION	BIT CONC SHLD, 9" W=3'-6"	BIT CONC SHLD, 9" W=6'	BIT CONC SHLD, 9" W=6' TO 8'-1"
	SQ YD	SQ YD	SQ YD
LT STA 1914+50.00 TO STA 1914+77.98	10.9		
LT STA 1914+77.98 TO STA 1915+27.98			39.1
LT STA 1915+27.98 TO STA 1916+59.23		87.5	
RT STA 1915+10.00 TO STA 1915+20.90	4.2		
RT STA 1915+20.90 TO STA 1915+70.90			39.1
RT STA 1915+70.90 TO STA 1917+02.15		87.5	
LT STA 1917+31.48 TO STA 1918+62.73		87.5	
LT STA 1918+62.73 TO STA 1919+12.73			39.1
LT STA 1919+12.73 TO STA 1919+50.00	14.5		
RT STA 1917+74.41 TO STA 1919+05.66		87.5	
RT STA 1919+05.66 TO STA 1919+55.66			39.1
SUBTOTAL	29.6	350	156.4
TOTAL		536	

TEMPORARY RAMP SCHEDULE

LOCATION	DESCRIPTION	WIDTH	TEMP RAMP
		FOOT	SQ YD
STA 1914+20.00	BEGIN PROJECT	26	14.44
STA 1916+98.26	BR OMISSION	26	14.44
STA 1917+36.50	BR OMISSION	26	14.44
STA 1920+13.00	END PROJECT	26	14.44
TOTAL			43.33

RAISED REFLECTIVE PAVEMENT MARKING SCHEDULE

LOCATION	RAISED REFL REMOVAL	RAISED REFL BI-DIR YEL
	EACH	EACH
STA 1914+50.00 TO STA 1916+97.53	3	3
BR OMISSION STA 1916+97.53 TO STA 1917+36.09		
STA 1917+36.09 TO STA 1919+60.00	3	3
TOTALS	6	6

PAINT PAVEMENT MARKING SCHEDULE

LOCATION	LENGTH	6" YELLOW SKIP-DASH	4" WHITE SOLID
		FOOT	FOOT
STA 1913+46.50 TO STA 1916+97.53	351.03	88.0	702.0
BR OMISSION STA 1916+97.53 TO STA 1917+36.09	38.56	10.0	77.0
STA 1917+36.09 TO STA 1921+01.50	365.41	91.0	731.0
TOTALS	755.0	189.0	1510.0

SUMMARY OF EARTHWORK

LOCATION	EARTH EXCAVATION	EMBANKMENT	FILL x 1.3	WASTE (BORROW)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD (1)	CU YD	CU YD (2)	CU YD
STA 1914+00.00 TO STA 1915+00.00	4.4	10	13	(8.60)	-8.60
STA 1915+00.00 TO STA 1916+00.00	16.5	13.7	17.81	(1.31)	-9.91
STA 1916+00.00 TO STA 1916+97.53	23.5	7.2	9.36	14.14	4.23
BR OMISSION STA 1916+97.53 TO STA 1917+36.09					
STA 1917+36.09 TO STA 1918+00.00	15.1	8.3	10.79	4.31	8.54
STA 1918+00.00 TO STA 1919+00.00	18.7	35.4	46.02	(27.32)	-18.78
STA 1919+00.00 TO STA 1920+60.00	6.9	28.9	37.57	(30.67)	-49.45
TOTALS	85	104	135	(49)	-49.45

NOTES

1-NO SHRINKAGE FACTOR APPLIED TO THE EMBANKMENT QUANTITY
2-A 30% EXPANSION FACTOR WAS USED IN COMPUTING BORROW QUANTITY
3-TOP SOIL NOT COMPUTED-WILL BE INCIDENTAL TO FURNISHED EXCAVATION
4-NO PAYMENT WILL BE ALLOWED FOR OVERHAUL
5-EXCAVATION REQUIRED FOR BITUMINOUS SHOULDERS, AGGREGATE SHOULDER, AND FOR GUARDRAIL INSTALLATION IS MEASURED AND PAID FOR AS EARTH EXCAVATION

PAVEMENT MARKING REMOVAL SCHEDULE

DESCRIPTION	LOCATION	LENGTH	REMOVAL
		FOOT	SQ FT
CENTERLINE (6")	STA 1913+46.50 TO STA 1921+01.50	755	37.75
EDGE LINES (4")	STA 1913+46.50 TO STA 1921+01.50	755	503.3
TOTAL			541

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USER NAME = CFC

REVISIONS NAME	DATE

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

ILLINOIS DEPARTMENT OF TRANSPORTATION

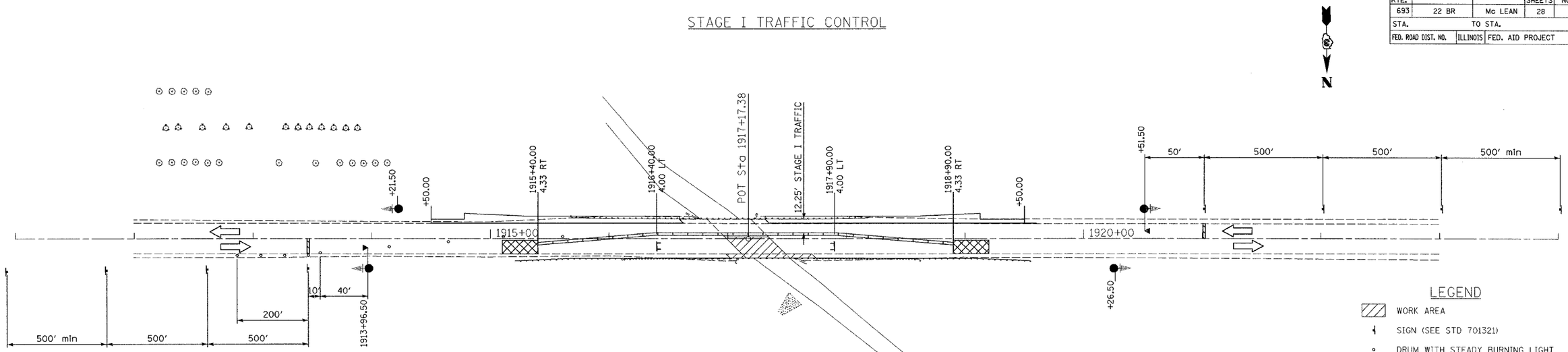
SCHEDULE OF QUANTITIES
IL ROUTE 9 OVER MONEY CREEK
FAP RT 693, SECTION 22 BR
MC LEAN COUNTY

SCALE:
DATE
DRAWN BY CFC / TFG
CHECKED BY MCB

CONTRACT NO. 66583

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE I TRAFFIC CONTROL



PRIOR TO STAGE I CONSTRUCTION

REMOVE EXISTING GUARDRAIL AND TERMINAL SECTIONS ON LT SIDE. USING STANDARD 701326 CONSTRUCT BITUMINOUS SHOULDERS 9" FROM STA 1914+50 LT TO STA 1916+62.72 LT AND FROM STA 1917+31.48 LT TO STA 1920+12.73 LT. REINSTALL EXISTING GUARDRAIL AND TERMINAL SECTIONS.

STAGE I SEQUENCE OF CONSTRUCTION

1 PLACE STAGE I TRAFFIC CONTROL ACCORDING TO STANDARD 701321 AND AS SHOWN

2 DIRECT TRAFFIC TO STAGE I ROADWAY AND COMPLETE STAGE I STRUCTURAL WORK, GUARDRAIL REMOVAL. CONSTRUCT BITUMINOUS SHOULDERS FROM STA 1914+70.90 RT TO STA 1917+02.15 RT AND FROM STA 1917+70.92 RT TO STA 1919+55.66 RT AND CONSTRUCT PROPOSED GUARDRAIL ON RT SIDE.

WIDTH RESTRICTION SIGNING

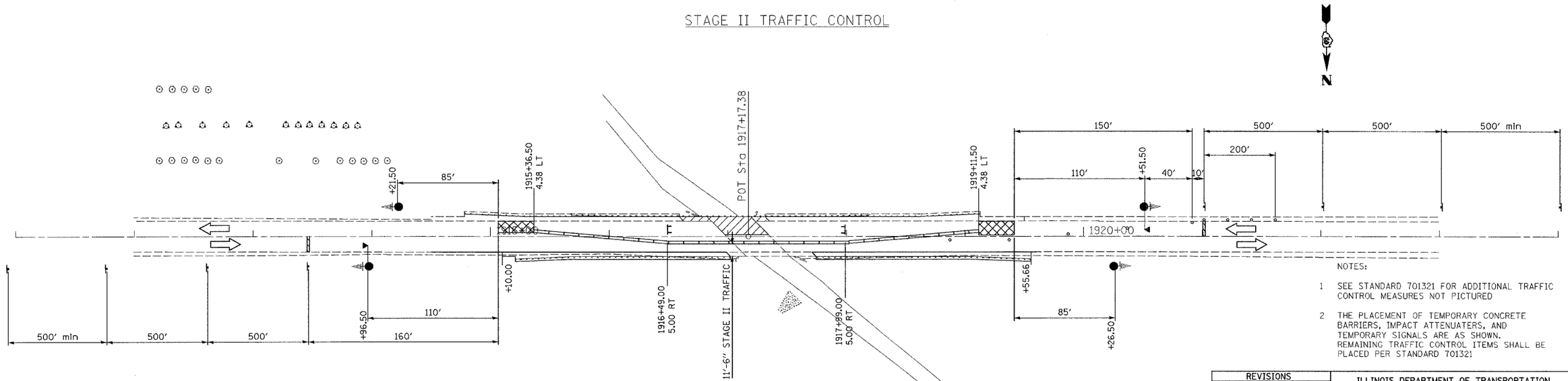
WIDTH RESTRICTION SIGNING SHALL BE PLACED WEST OF IL 165 INTERSECTION AND EAST OF IL 47 INTERSECTION WITH IL RTE 9. WIDTH RESTRICTION SHALL BE SHOWN AS 10'-9" IN STAGE I AND 10' IN STAGE II.

WIDTH RESTRICTION SIGNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.

LEGEND

- WORK AREA
- SIGN (SEE STD 701321)
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL WITH BACKPLATE
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY
- MICROWAVE ON ARM
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE

STAGE II TRAFFIC CONTROL



STAGE II SEQUENCE OF CONSTRUCTION

1 RELOCATE BARRIER WALL AND IMPACT ATTENUATORS, ADD 2 ADDITIONAL SECTIONS OF BARRIER WALL, AND PUT IN PLACE OTHER TRAFFIC CONTROL MEASURES FOR STAGE II AS REQUIRED BY STANDARD 701321

2 ONCE TRAFFIC IS DIRECTED TO STAGE II TRAFFIC LANES COMPLETE STAGE II STRUCTURAL WORK, GUARDRAIL REMOVAL AND CONSTRUCT PROPOSED GUARDRAIL.

NOTES:

1 SEE STANDARD 701321 FOR ADDITIONAL TRAFFIC CONTROL MEASURES NOT PICTURED

2 THE PLACEMENT OF TEMPORARY CONCRETE BARRIERS, IMPACT ATTENUATERS, AND TEMPORARY SIGNALS ARE AS SHOWN. REMAINING TRAFFIC CONTROL ITEMS SHALL BE PLACED PER STANDARD 701321

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
IL ROUTE 9 OVER MONEY CREEK
FAP RT 693, SECTION 22 BR
MC LEAN COUNTY

SCALE: 1"=40' DRAWN BY CFC / TFG

DATE CHECKED BY MCB

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CONTRACT NO. 66583

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	McLEAN	28	8
STA. 1914+00	TO STA.1920+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

N

PR STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS (SEE SCHEDULE FOR DETAILS)

PR BIT SHLD, 9" 6' WIDE AND VARIES

REMOVE EX S.P.B.G.R.

SN 057-0076
PR SUPERSTRUCTURE REMOVAL AND REPLACEMENT
SEE BRIDGE PLANS FOR DETAILS

PR BIT SURF REM 2 3/4"
PR BIT CONC SURF CSE, SUPERPAVE 2 3/4"
TO ACCOMMODATE PR BRIDGE WATERPROOFING MEMBRANE EXTENSION
SEE BRIDGE PLANS FOR DETAIL

PR STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS (SEE SCHEDULE FOR DETAILS)

PR BIT SHLD, 9" 6' WIDE AND VARIES

END PROJECT
PR BUTT JOINT
STA 1919+60.00

+50.00 EX ROW +77.98 +62.72 +59.23 +34.97 +31.48 +12.73 +50.00 EX ROW

PGT Sta 1917+17.38 ℄ STRUCTURE

1914 | 1915+00 | ℄ IL ROUTE 9 | 1916 | 1917 | 1918 | 1919

13' 13' 30' 30'

EX ROW +10.00 +20.90 +98.66 +02.15 +70.92 +74.41 EX ROW +55.66

BEGIN PROJECT
PR BUTT JOINT
STA 1914+50.00

PR BIT SHLD, 9" 6' WIDE AND VARIES

REMOVE EX S.P.B.G.R.

REMOVE EX S.P.B.G.R.

PR BIT SHLD, 9" 6' WIDE AND VARIES

PR STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS (SEE SCHEDULE FOR DETAILS)

PR BIT SURF REM 1 1/2"
PR BIT CONC SURF CSE, SUPERPAVE 1 1/2"

EX APPROACH BEAMS TO REMAIN EACH CORNER

PR BIT SURF REM 1 1/2"
PR BIT CONC SURF CSE, SUPERPAVE 1 1/2"

PR STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS (SEE SCHEDULE FOR DETAILS)

BM:
F.P. FLUSH W/ GROUND
STA 1914+15.08, 37.75' LT, EL 827.44

0 20 40 60
SCALE IN FEET

PROFILE
SURVEYED
PLOTTED
DRAWN CHECKED
ENG. NOTES
STRUCTURE NOTATNS CKD
NOTE BOOK
NO.
BY
DATE

NOTE:
PR PROFILE GRADE
SAME AS EXISTING

834 832 830 828

831.24 831.11 830.99 830.87 830.83 830.80 830.77 830.74 830.74 830.74 830.73 830.72 830.76 830.73 830.71 830.68 830.65 830.61 830.58 830.55 830.55 830.55 830.55 830.55

1914+50 1915+00 1915+50 1916+00 1916+50 1917+00 1917+50 1918+00 1918+50 1919+00 1919+50 1920+00

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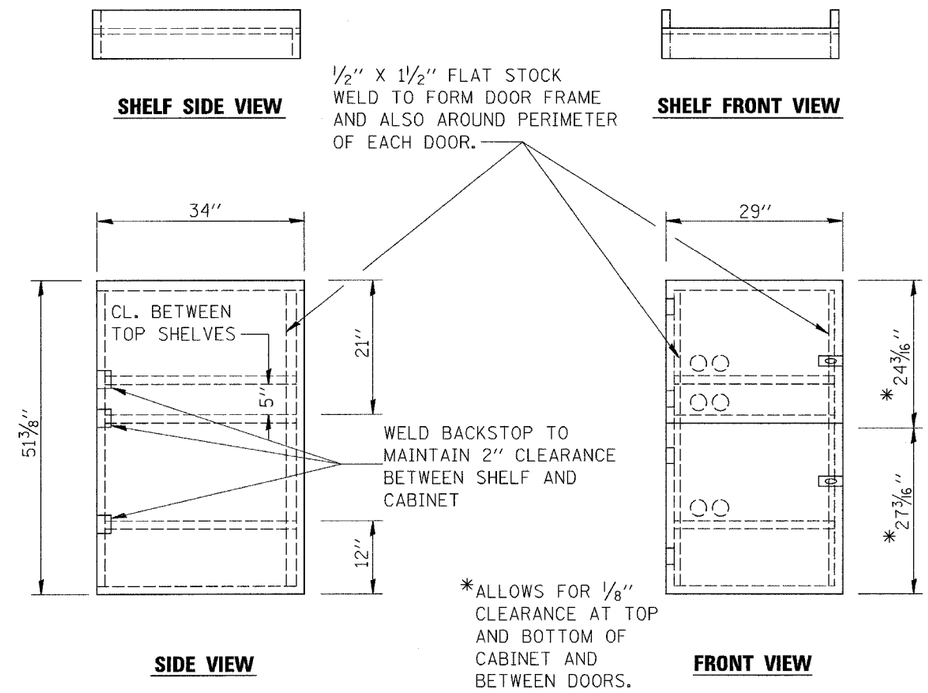
STA. 1914+00 TO STA. 1920+00

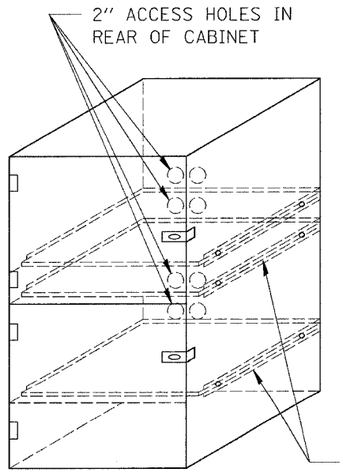
CONTRACT NO. 66583

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

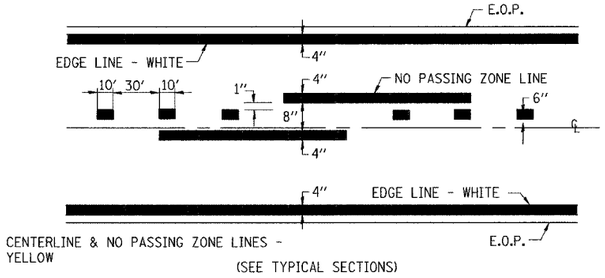


NOTES:

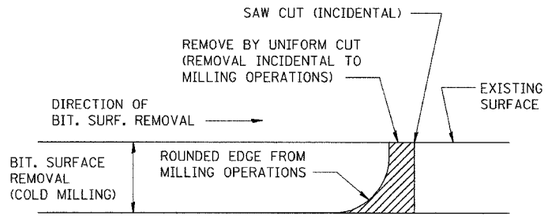
1. USE 16 GAUGE STEEL FOR CABINET.
2. THE TOP SHELF SHALL SLIDE IN OR OUT WITH THE TOP DOOR OPEN.
3. ALL HINGES AND HASPS WILL BE WELDED TO THE CABINET.
4. ALL EDGES SHALL BE GROUND SMOOTH.
5. TWO (2" DIA.) ACCESS HOLES WILL BE REQUIRED FOR EACH SHELF.
6. CABINET SHALL BE PAINTED WITH TWO COATS OF FLAT PAINT.
7. 2 EACH MATCHING KEY PADLOCKS, WITH 3 KEYS PROVIDED, MASTER MODEL 3 T OR EQUIVALENT.
8. 4 EACH PLAIN STEEL, NON-REMOVABLE PIN, NO HOLE 4"X4" SQUARE CORNER HINGES TO BE WELDED ON.
9. 2 EACH EXTRA HEAVY, PLAIN STEEL, FIXED STAPLE, NO HOLE, 7 1/4" HASPS TO BE WELDED ON.



LOCKABLE COMPUTER CABINET

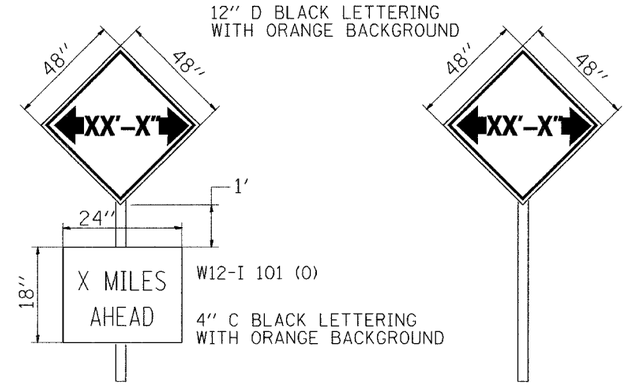


PAVEMENT MARKING



NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

BITUMINOUS DETAIL AT BUTT JOINTS



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

THE ENGINEER WILL NOTIFY DISTRICT 3 BUREAU OF OPERATIONS 14 CALENDAR DAYS PRIOR TO INSTALLING ANY TRAFFIC CONTROL DEVICES THAT WILL RESTRICT THE PAVEMENT WIDTH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

WIDTH RESTRICTION SIGNING DETAILS

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USER NAME = cfc

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

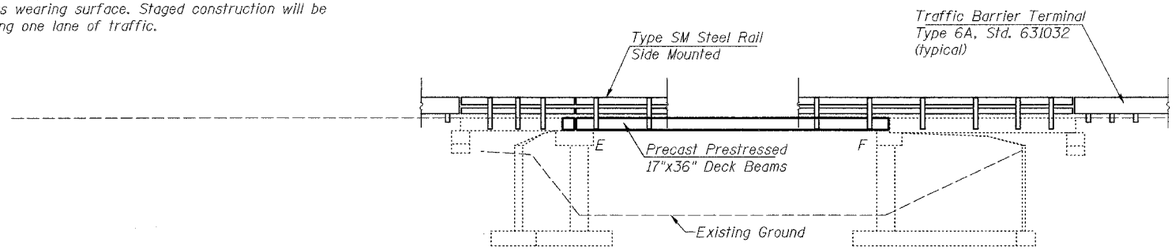
STANDARD DETAILS
IL ROUTE 9 OVER MONEY CREEK
FAP RT 693, SECTION 22 BR
MC LEAN COUNTY

SCALE: DRAWN BY CFC
DATE CHECKED BY MCB

Bench Mark: F.P. flush w/ground Sta. 1914+15.08, 37.75' Lt., Elev. 827.44

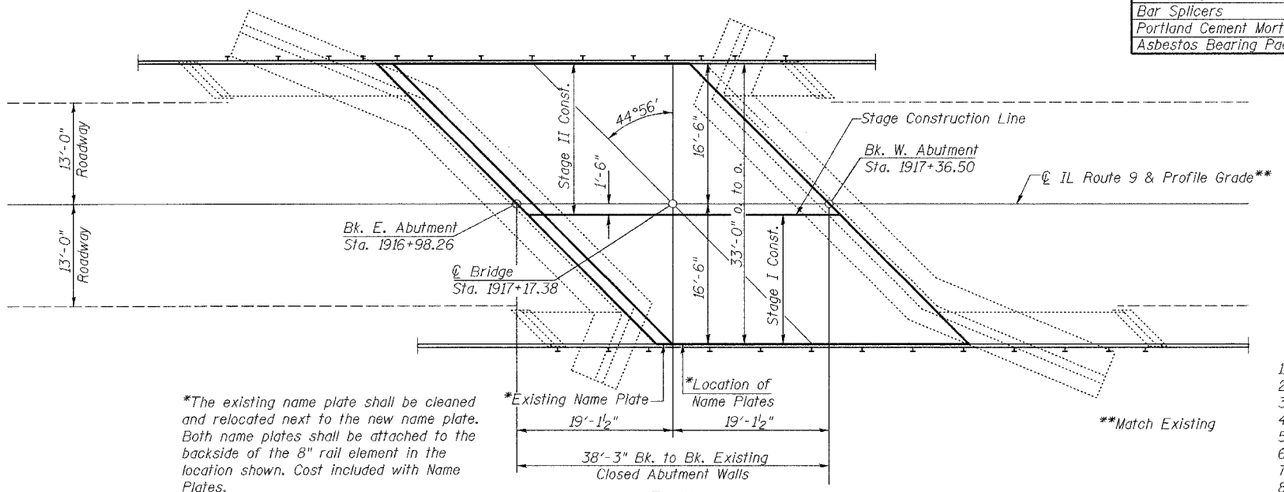
Existing Structure: SN 057-0076 originally built in 1924 as S.B.I. Route 9, Sec. 22. Widened and Superstructure replaced in 1978 as Sec. 22 BR. Structure consists of 11 single span 17"x3'-0" P.P.C. deck beams on closed concrete abutments with cantilever caps, 38'-3" Bk. to Bk. of abutments, 3.3'-0" o. to o. of deck, 44°-56" skew R.F. The existing P.P.C. deck beams will be removed and replaced with new 17"x3'-0" P.P.C. deck beams and bituminous wearing surface. Staged construction will be utilized allowing one lane of traffic.

No salvage.



ELEVATION

N



*The existing name plate shall be cleaned and relocated next to the new name plate. Both name plates shall be attached to the backside of the 8" rail element in the location shown. Cost included with Name Plates.

**Match Existing

PLAN

STATION 1917+17.38
RE-BUILT 20___ BY
STATE OF ILLINOIS
F.A.P. RTE 693 SEC. 22 BR
LOADING HS20
STR. NO. 057-0076

NAME PLATE
See Std. 515001

LOADING HS20-44

No allowance for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'_c = 5,000 psi
f'_{ci} = 4,000 psi
f_s = 270,000 psi ($\frac{1}{2}$" ϕ Low Relaxation Strands)
f_{si} = 201,960 psi ($\frac{1}{2}$" ϕ Low Relaxation Strands)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing Superstructures	Each	1
Concrete Removal	Cu. Yd.	2.5
Concrete Structures	Cu. Yd.	4.7
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1216
Reinforcement Bars, Epoxy Coated	Pound	360
Steel Bridge Rail, Type SM	Foot	145
Bituminous Concrete Surface Course Superpave, Mix "C", N50	Ton	14.2
Waterproofing Membrane System	Sq. Yd.	148
Silicone Joint Sealer, 1"	Foot	47
Name Plates	Each	1
Furnishing and Erecting Structural Steel	Pound	3340
Bar Splicers	Each	6
Portland Cement Mortar Fairing Course	Foot	368
Asbestos Bearing Pad Removal	Each	22

INDEX OF SHEETS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 693	22 BR	MCLEAN	28	10
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
9 SHEETS

CONTRACT NO. 66583

GENERAL NOTES

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

Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.

All construction joints shall be bonded.

Expansion joint plates shall be AASHTO M270 Grade 50.

Expansion guards which are not cast in the precast unit shall be fabricated and erected according to Article 503.10 (C) of the Standard Specifications and are included in the quantity of structural steel.

The top surface of the beams shall be finished according to Article 504.06 of the Standard Specification except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners and the top edge of keys shall be rounded or chamfered a minimum of $\frac{1}{4}$".

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M 300, Type I. Cost included with Furnishing and Erecting Structural Steel.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. (Top surface, to which waterproofing will be applied, shall be kept free of sealer). 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.

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

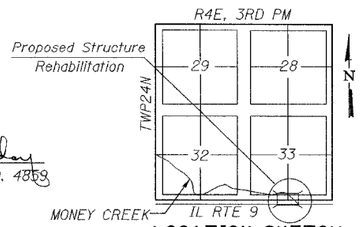
No drilling will be permitted into the precast deck beams.

No in-stream work will be allowed on this project.

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

LICENSED STRUCTURAL ENGINEER
MARY COOMBE BLOXDORF
4859
SPRINGFIELD
STATE OF ILLINOIS

Mary Coombe Bloxdorf
ILLINOIS STRUCTURAL NO. 4859
EXPIRES: 11/30/06
DATE: 12-16-05



LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: GENERAL PLAN

PROJECT: IL ROUTE 9 OVER MONEY CREEK
FAP ROUTE 693 SECTION 22 BR
MCLEAN COUNTY
STATION 1917+17.38
STRUCTURE NUMBER 057-0076

PROJECT NO. 05004-1
SCALE
DATE 12/15/05
DRAWN BY EFC/TFG
CHECKED BY CME/MCB
DRAWING NO. 1
OF 9 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

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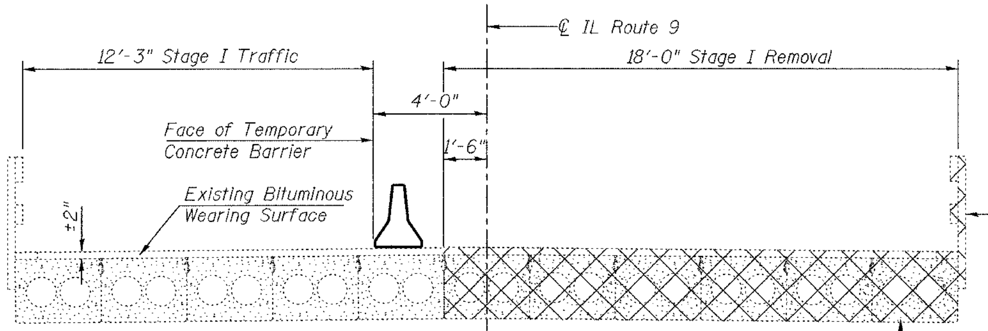
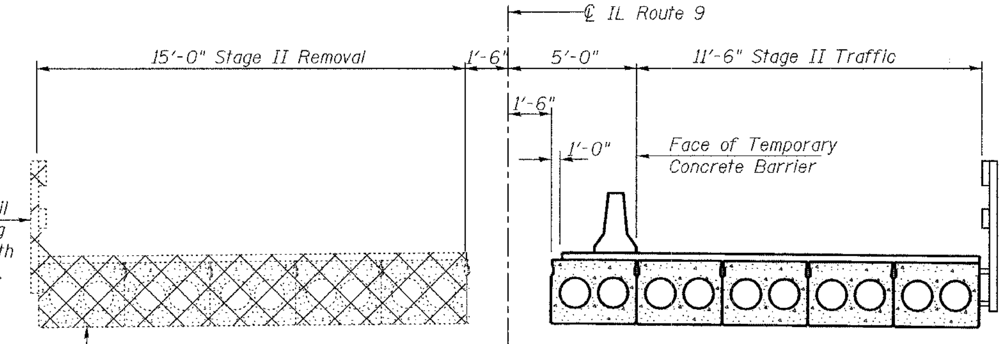
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 693	22 BR	MCLEAN	28	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
9 SHEETS

CONTRACT NO. 66583

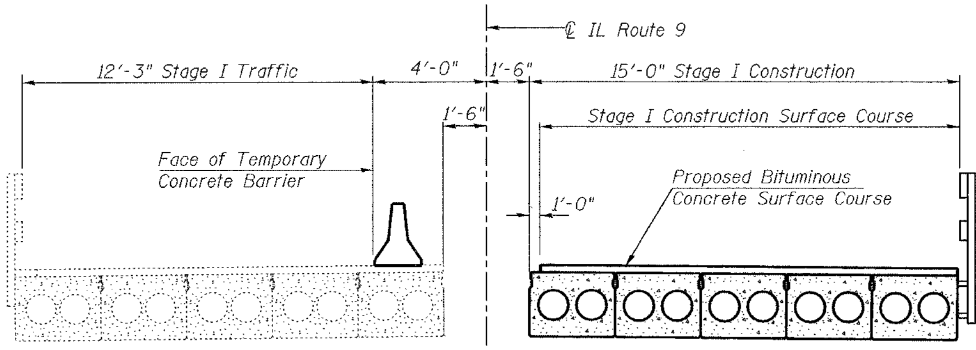


STAGE I REMOVAL
(Looking West)

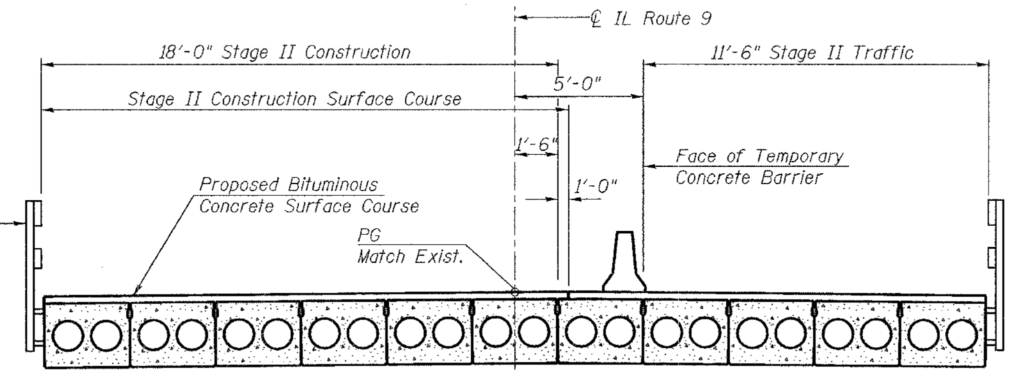


STAGE II REMOVAL
(Looking West)

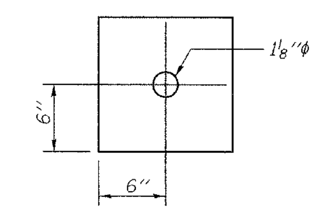
NOTES
Cross Hatched areas indicate Removal of Existing Superstructures.
See Roadway plans for quantity of Temporary Concrete Barrier.



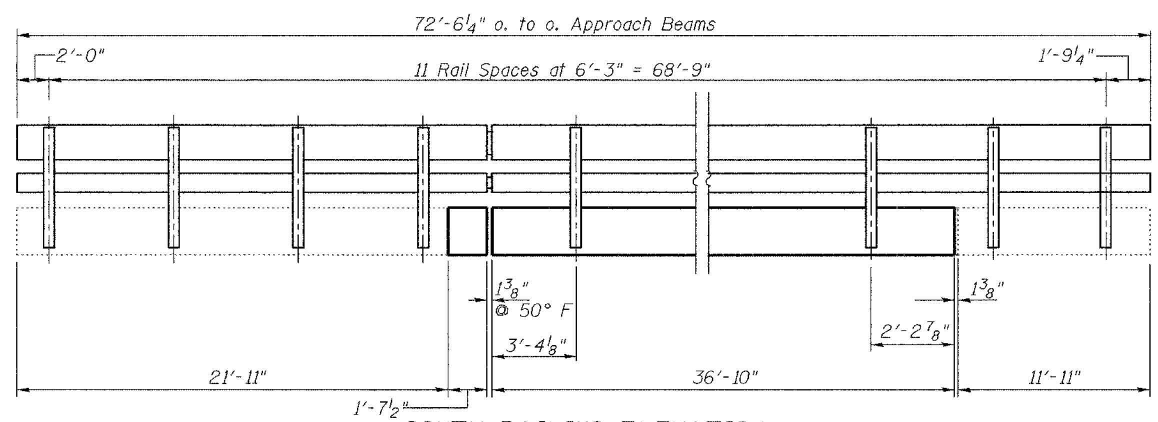
STAGE I CONSTRUCTION
(Looking West)



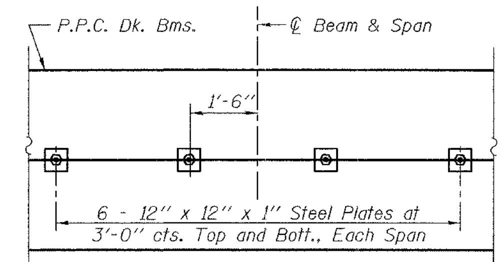
STAGE II CONSTRUCTION
(Looking West)



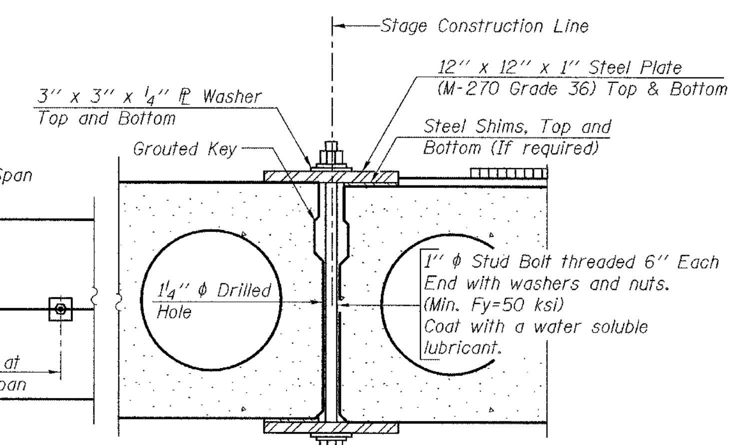
CLAMPING PLATE



SOUTH RAILING ELEVATION
(Looking South)

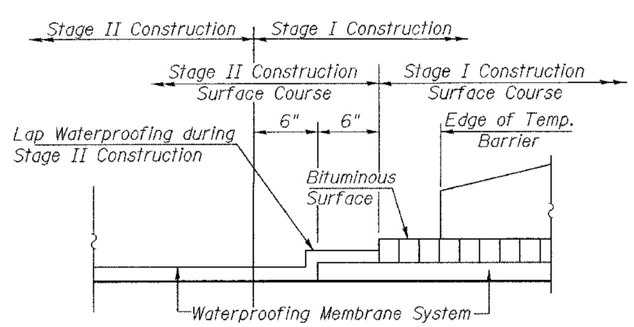


PLAN

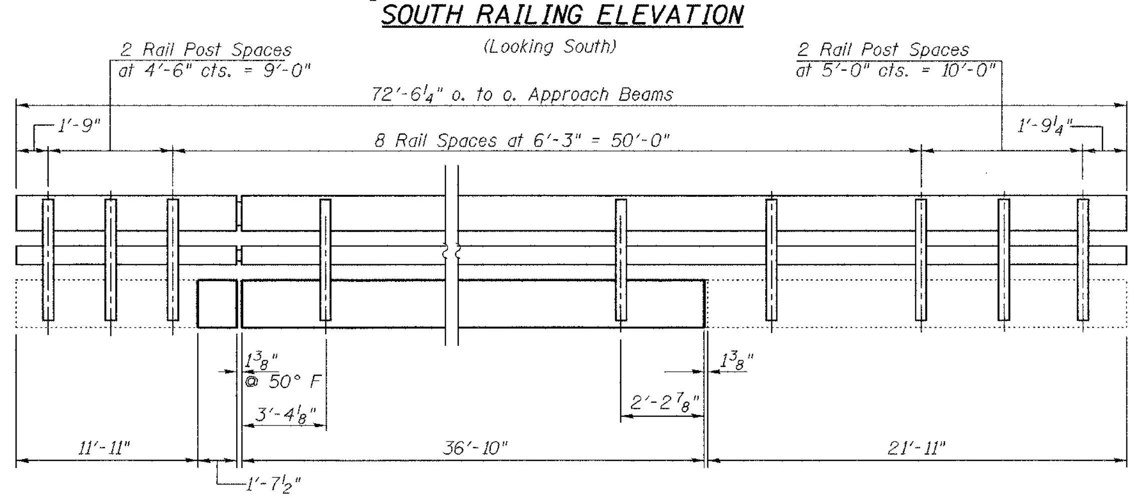


SECTION

SHEAR KEY CLAMPING DETAILS AT STAGE CONSTRUCTION JOINT
See Special Provisions for Stage Construction of Precast Prestressed Concrete Deck Beams.
Cost of clamping device included in Precast Prestressed Concrete Deck Beams.



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION



NORTH RAILING ELEVATION
(Looking South)

Note: Splice rail at expansion joint.
See Sheet 6 of 9 for details.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: STAGED CONSTRUCTION

PROJECT: IL ROUTE 9 OVER MONEY CREEK
FAP ROUTE 693 SECTION 22 BR
MCLEAN COUNTY
STATION 1917+17.38
STRUCTURE NUMBER 057-0076

PROJECT NO. 05004-1
DATE 12/15/05
DRAWN BY TFG
CHECKED BY CME/MCB

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

2 OF 9 SHTS

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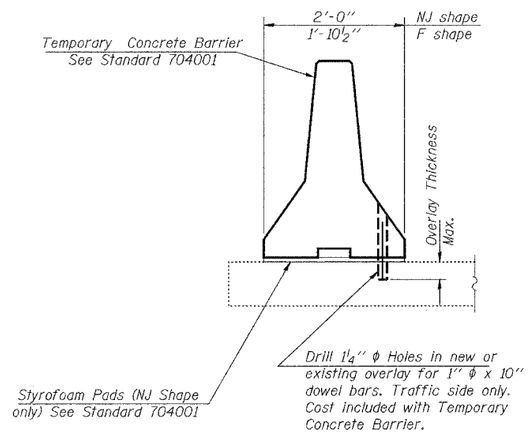
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 693	22 BR	MCLEAN	28	12
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3

9 SHEETS

CONTRACT NO. 66583



SECTION THRU SLAB

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION

PROJECT
IL ROUTE 9 OVER MONEY CREEK
FAP ROUTE 693 SECTION 22 BR
MCLEAN COUNTY
STATION 1917+17.38
STRUCTURE NUMBER 057-0076

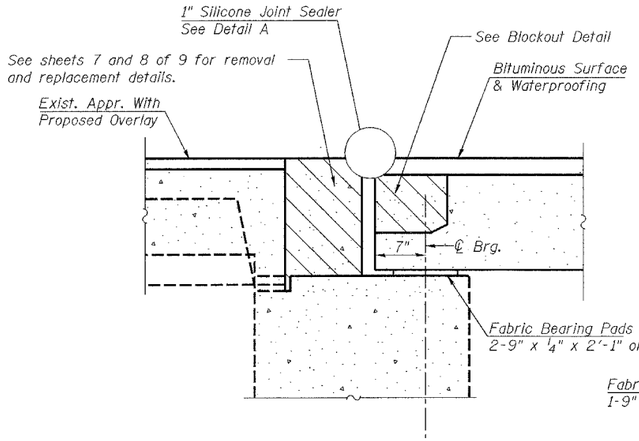
PROJECT NO. 05004-1
SCALE
DATE 12/15/05
DRAWN BY TFC
CHECKED BY CME/MCB
DRAWING NO. 3
OF 9 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 693	22 BR	MCLEAN	28	13
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

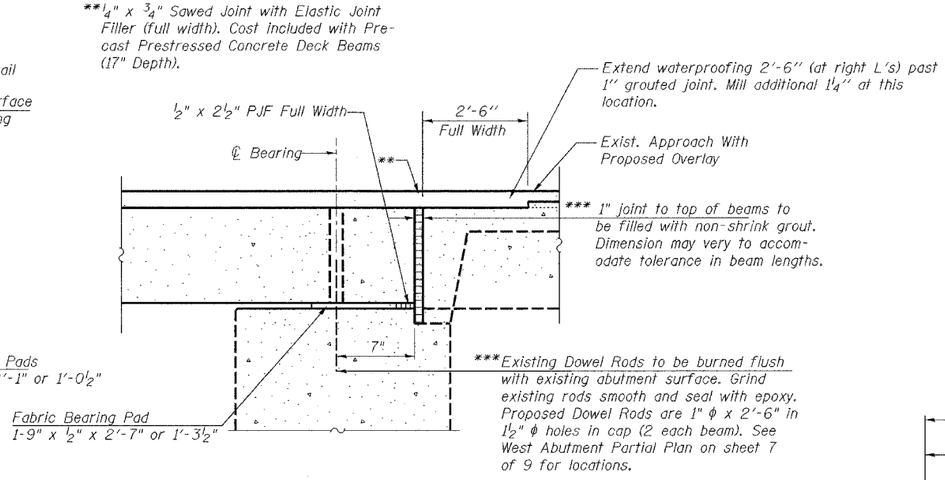
SHEET NO. 4
9 SHEETS

CONTRACT NO. 66583



SECTION THRU EAST ABUTMENT

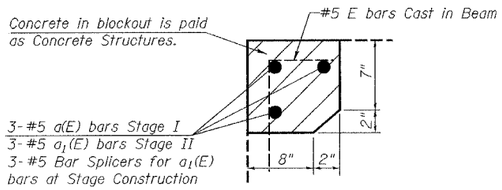
(Dimensions at right angles)



SECTION THRU WEST ABUTMENT

(Dimensions at right angles)

*** Cost included with Precast Prestressed Concrete Deck Beams (17" Depth).



BLOCKOUT DETAIL

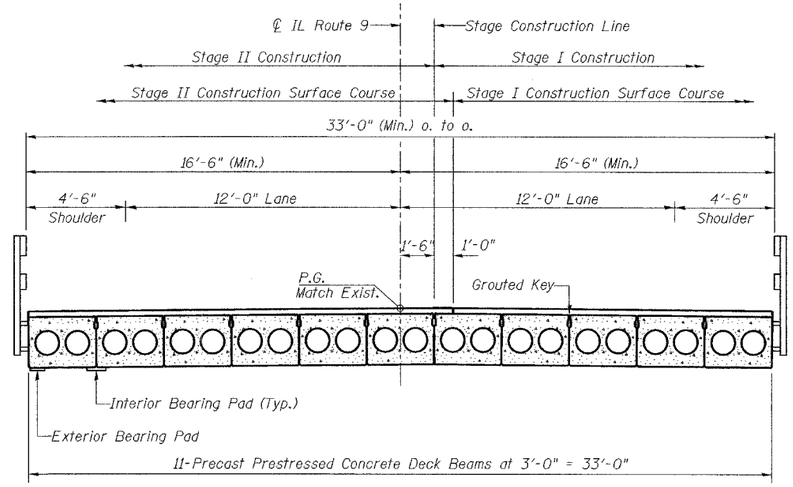
NOTES

Horizontal dimensions are at right angles to beam ends.

Hatched areas to be poured after beams have been erected and joints are grouted.

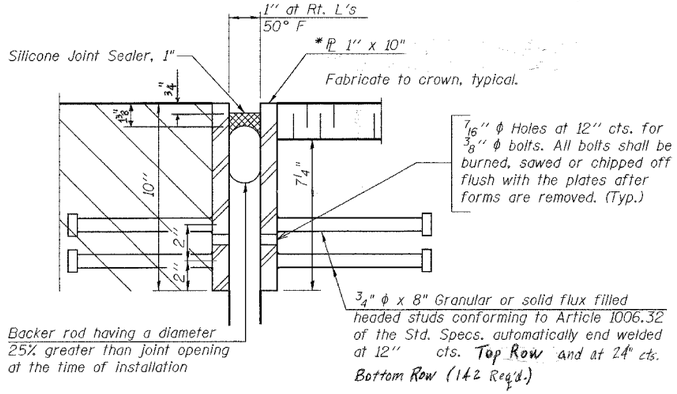
Existing bearing pads at E. Abutment are made of graphited asbestos. The contractor shall take appropriate precautions during the removal and disposal of these bearing pads. See Special Provisions.

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



CROSS SECTION

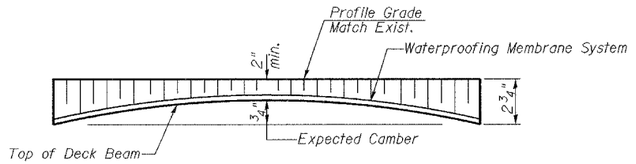
(Looking West)



DETAIL A

* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.

Steel Plates and Studs are included in Structural Steel quantity on sheet 1 of 9.



CAMBER DIAGRAM

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	3	#5	21'-0"	—
a1(E)	3	#5	24'-11"	—
Reinforcement Bars (Epoxy Coated)			Lb.	150
Concrete Structures			Cu. Yd.	1.3
Bar Splicers			Each	3

Reinforcement bars designated (E) shall be epoxy coated.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: SUPERSTRUCTURE DETAILS

PROJECT: IL ROUTE 9 OVER MONEY CREEK
FAP ROUTE 693 SECTION 22 BR
MCLEAN COUNTY
STATION 1917+17.38
STRUCTURE NUMBER 057-0076

PROJECT NO. 05004-1
SCALE
DATE 12/15/05
DRAWN BY TFG
CHECKED BY CME/MCB
DRAWING NO. 4

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

OF 9 SHTS

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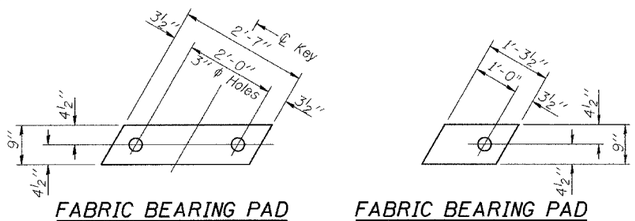
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 693	22 BR	MCLEAN	28	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

CONTRACT NO. 66583

SHEET NO. 5

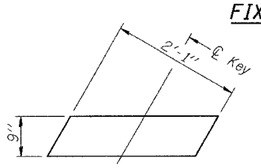
9 SHEETS



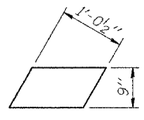
FABRIC BEARING PAD
(Interior)

FABRIC BEARING PAD
(Exterior)

FIXED

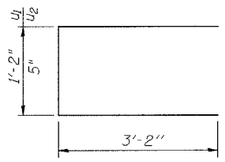


FABRIC BEARING PAD
(Interior)

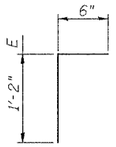


FABRIC BEARING PAD
(Exterior)

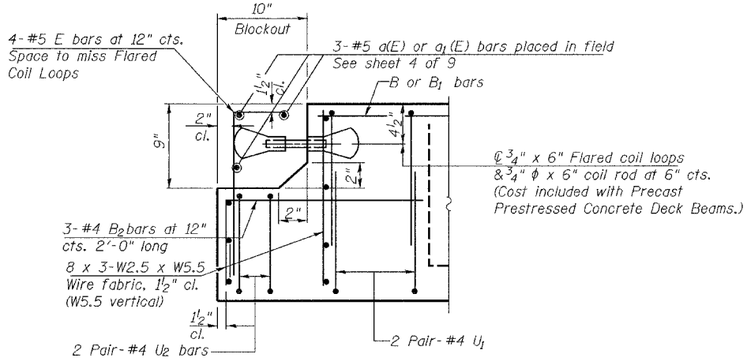
EXPANSION



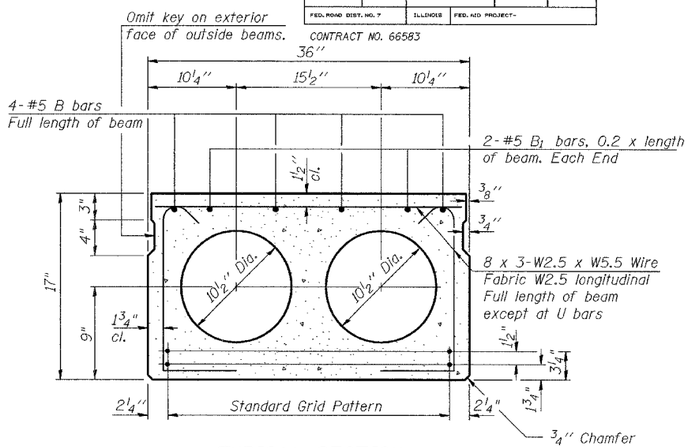
BAR U1 or U2



BAR E



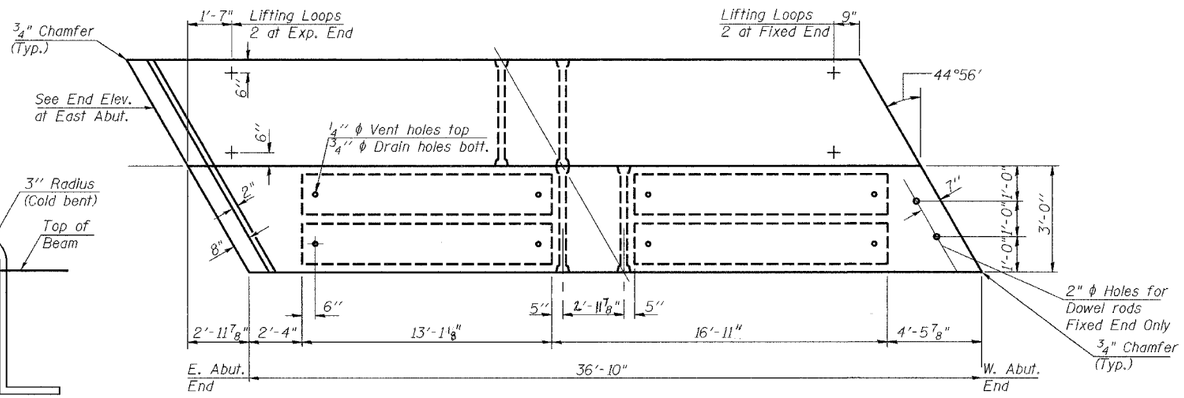
END ELEVATION AT EAST ABUTMENT
(Dimension ⊥ right angles)



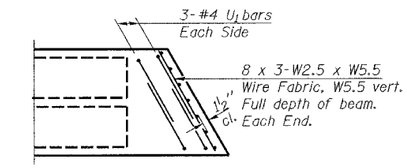
TYPICAL SECTION

½"ϕ Strands, Each Strand Stressed to 30,900 Lbs.
4-Strands 1¾" up, 6-Strands 3¼" up

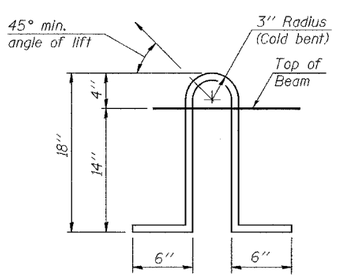
Note:
Place strands symmetrically about ℄ of beam.



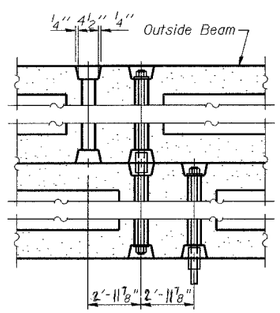
PLAN

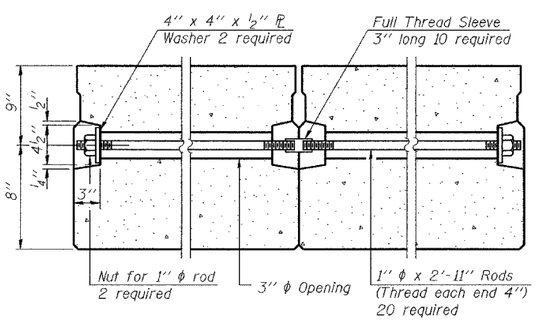


END PLAN W. ABUTMENT



LIFTING LOOP DETAIL





TYPICAL TRANSVERSE TIE ASSEMBLY

PD-3-RA 10-22-04

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2-½" ϕ-270 ksi strands, as shown.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that recieve transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Non prestressing steel shall conform to AASHTO M-31 or M-322 Grade 60.

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two ⅛" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.

Required Release Strength, f'ci, shall be 4000 p.s.i.

Bridge rail inserts shall be cast in precast beams. See sheet 2 of 9 for rail post spacing. See sheet 6 of 9 for rail details.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
Precast Prestressed Conc. Deck Bms. 17"			Sq. Ft.	12.16

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
SUPERSTRUCTURE DETAILS

PROJECT
IL ROUTE 9 OVER MONEY CREEK
FAP ROUTE 693 SECTION 22 BR
MCLEAN COUNTY
STATION 1917+17.38
STRUCTURE NUMBER 057-0076

PROJECT NO. 05004-1
SCALE
DATE 12/15/05
DRAWN BY TFG
CHECKED BY CME/MCB
DRAWING NO. 5 OF 9 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

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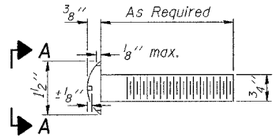
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 693	22 BR	MCLEAN	28	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

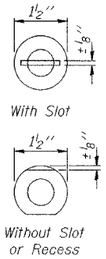
SHEET NO. 6
9 SHEETS

CONTRACT NO. 66583

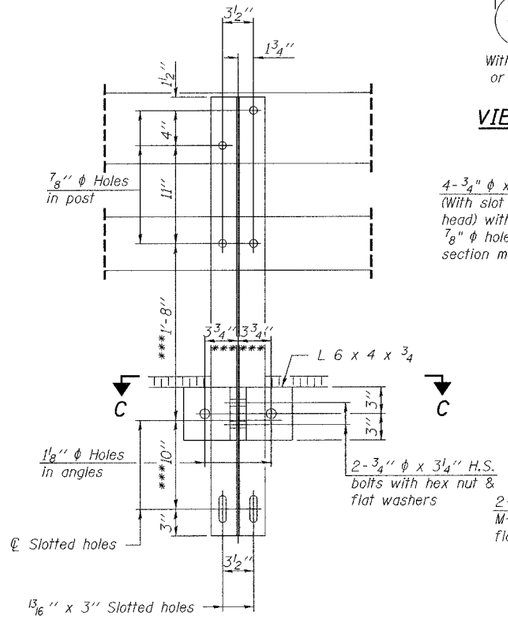
DETAIL OF $\frac{3}{4}$" ϕ ROUND HEAD BOLT



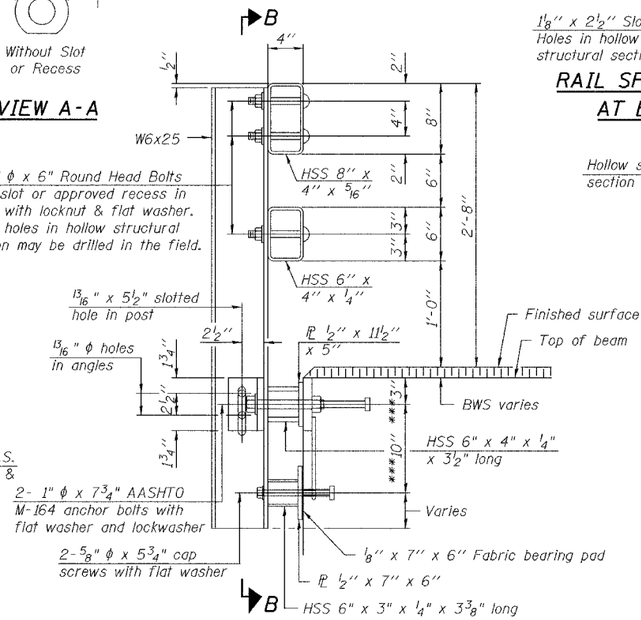
VIEW A-A



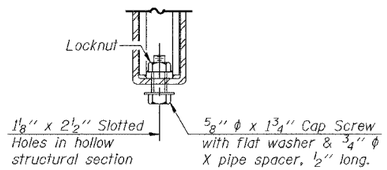
SECTION B-B



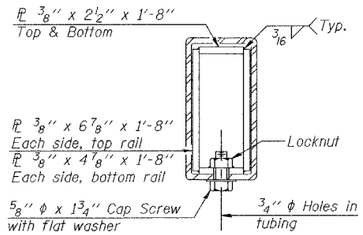
SECTION AT RAIL POST



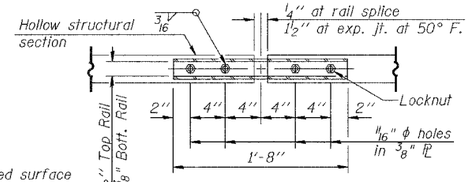
RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE

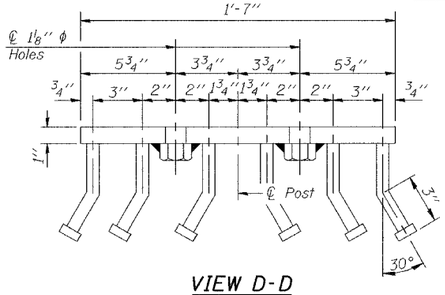


PLAN-BOTT. SPLICE ℄ TYPICAL

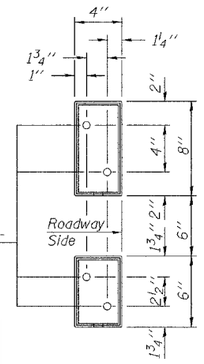


℄ -5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032

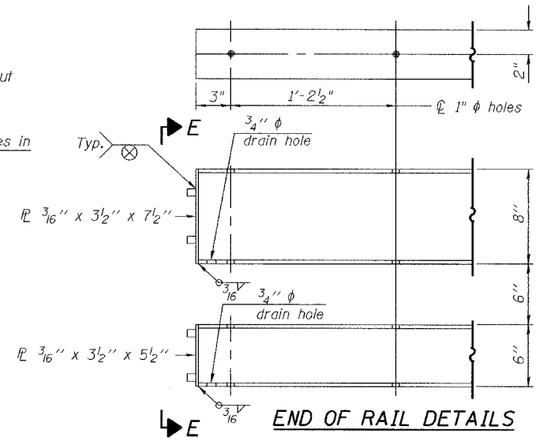
VIEW D-D



VIEW E-E



END OF RAIL DETAILS



NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail, Type SM.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

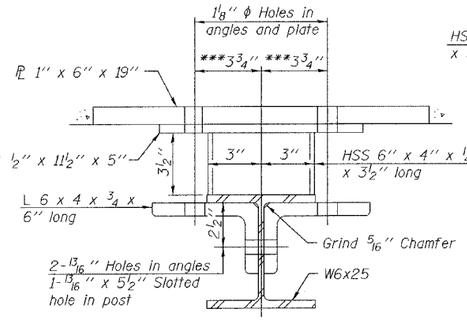
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.

The 3/4" ϕ high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1" ϕ high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" ϕ cap screws in bottom of posts shall be tightened to a snug fit only.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	145

SECTION C-C

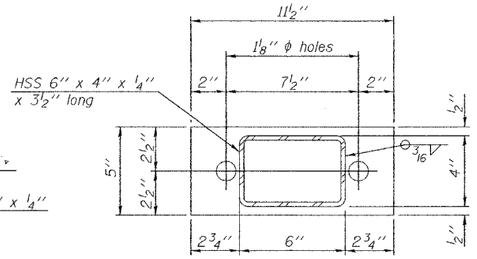


NOTES

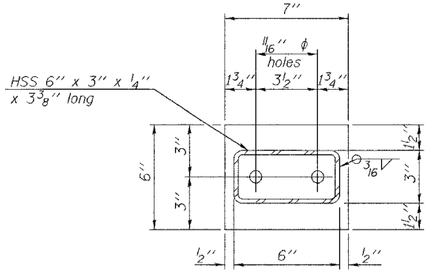
Posts located at the existing approach beams shall be attached utilizing the existing anchor devices. Cost included with Steel Bridge Rail, Type SM.

*** 2 1/2" replaces 3" at exist. approach beams
10 1/2" replaces 10" at exist. approach beams
4" replaces 3 3/4" at exist. approach beams
1'-7 1/2" replaces 1'-8" at exist. approach beams

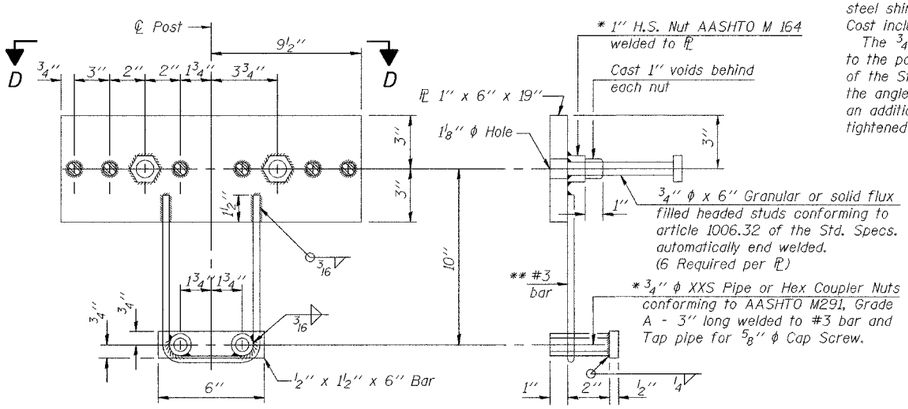
PL 1/2" x 11 1/2" x 5"



PL 1/2" x 7" x 6"



NEW ANCHOR DEVICE



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

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: TYPE SM STEEL BRIDGE RAIL SIDE MOUNTED WITH BITUMINOIS WEARING SURFACE

PROJECT: IL ROUTE 9 OVER MONEY CREEK
FAP ROUTE 693 SECTION 22 BR
MCLEAN COUNTY
STATION 1917+17.38
STRUCTURE NUMBER 057-0076

PROJECT NO. 05004-1
SCALE
DATE 12/15/05
DRAWN BY TFG
CHECKED BY CME/MCB
DRAWING NO. 6

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

OF 9 SHTS

R-34BWS 10-28-05

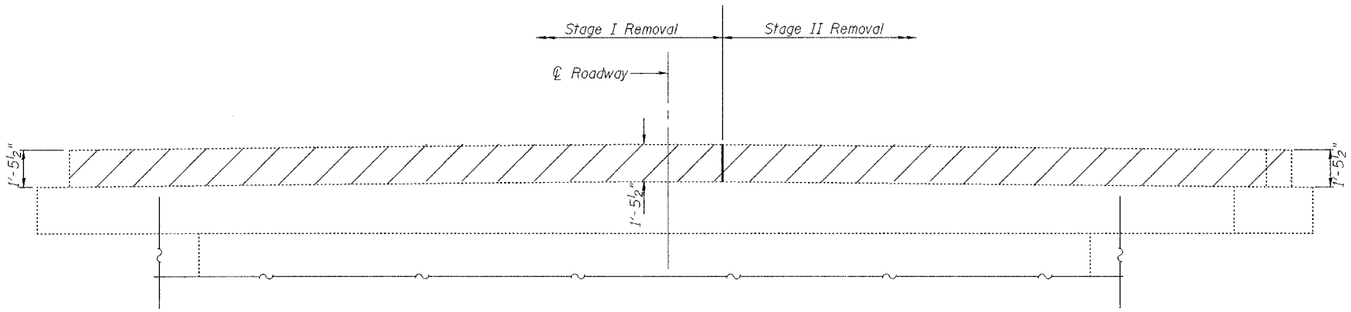
(6'-3" Maximum Post Spacing) (1 1/4" minimum to 3 1/8" maximum BWS thickness)

FILE NAME = c:\d05004-1\dgn\tfg05004-R-34.dgn
PLOT SCALE = 1.0000 '/ IN.
USER NAME = CFC.

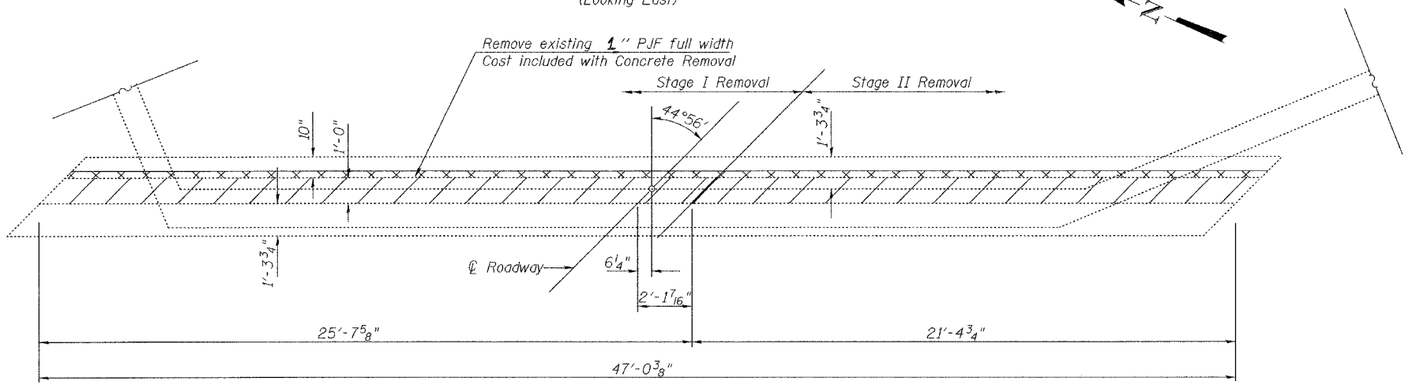
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 693	22 BR	MCLEAN	28	16
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 7
9 SHEETS

CONTRACT NO. 66583

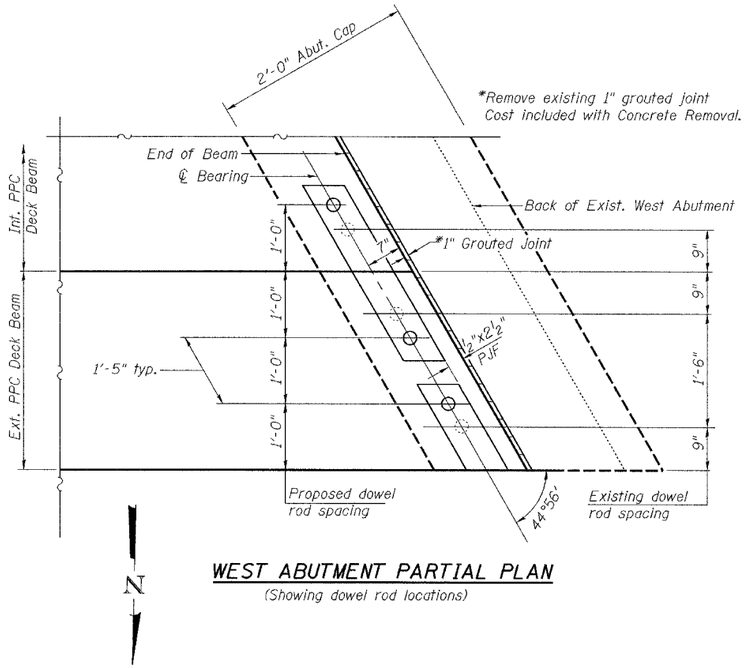


ELEVATION
(Looking East)



PLAN

EAST ABUTMENT



WEST ABUTMENT PARTIAL PLAN
(Showing dowel rod locations)

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.5

NOTES

Hatched areas indicate Concrete Removal.
1" Grouted Joint at West Abutment may vary in width to accomodate tolerance in beam lengths.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: ABUTMENT DETAILS

PROJECT: IL ROUTE 9 OVER MONEY CREEK
FAP ROUTE 693 SECTION 22 BR
MCLEAN COUNTY
STATION 1917+17.38
STRUCTURE NUMBER 057-0076

PROJECT NO. 05004-1
SCALE:
DATE: 12/15/05
DRAWN BY: TFG
CHECKED BY: CME/MCB
Drawing No. 7
OF 9 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

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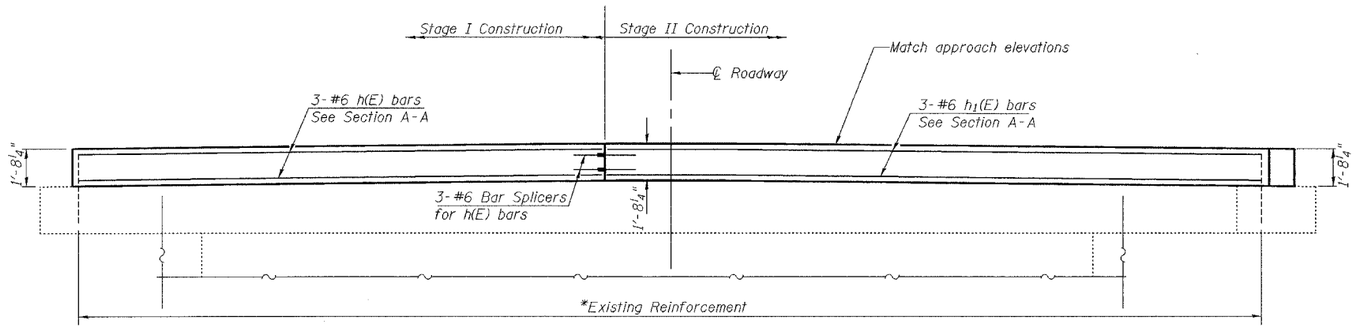
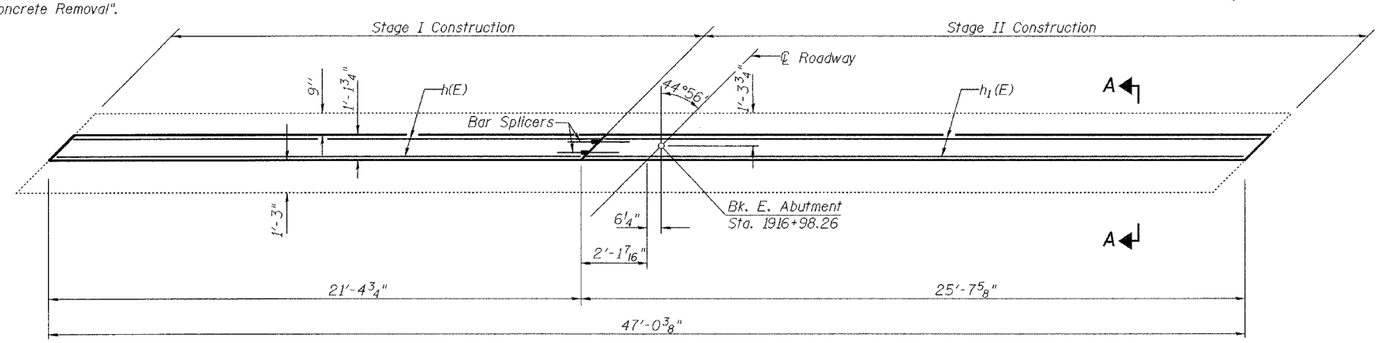


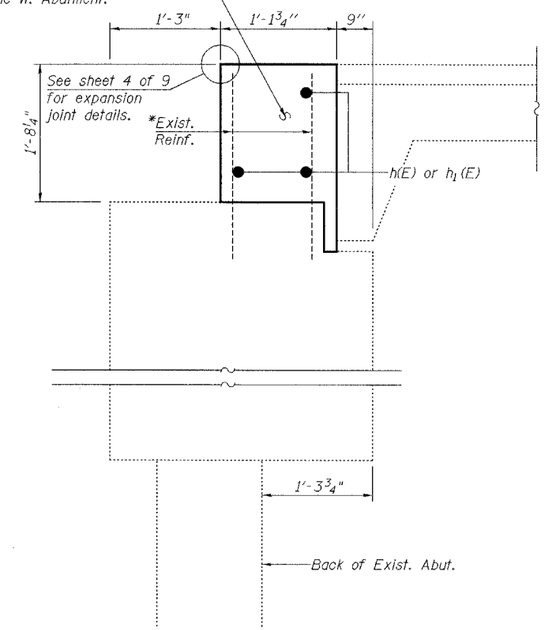
*Existing reinforcement to be cleaned, straightened and included in new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included in "Concrete Removal".

ELEVATION
(Looking East)

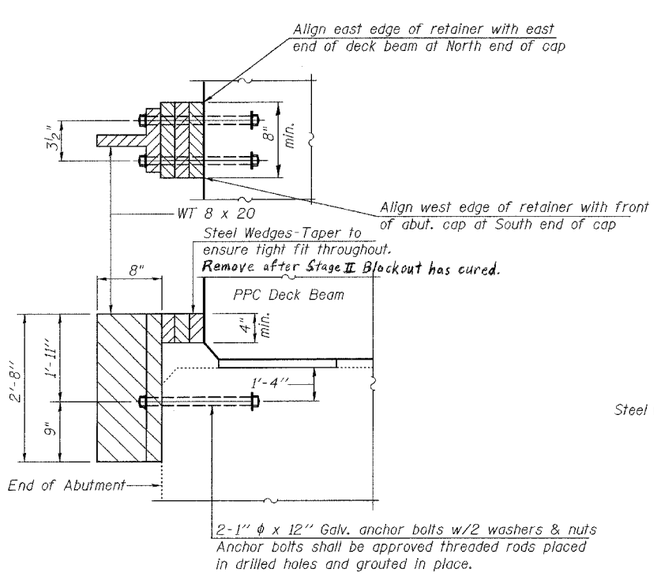


PLAN

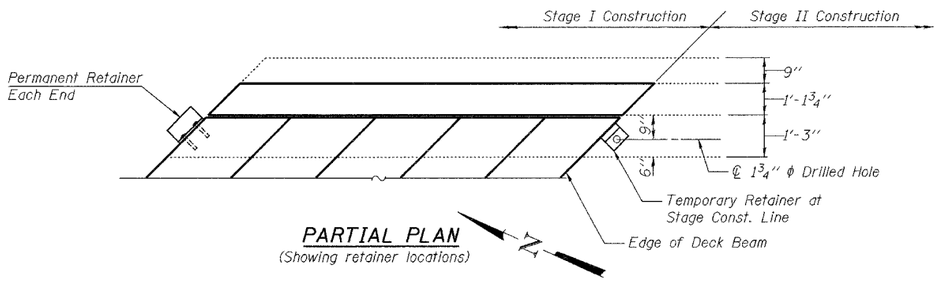
To be poured after beams have been erected and joints grouted. Ends of beams shall be aligned at the E. Abutment. Any lineal variations in the beam lengths shall be placed at the W. Abutment.



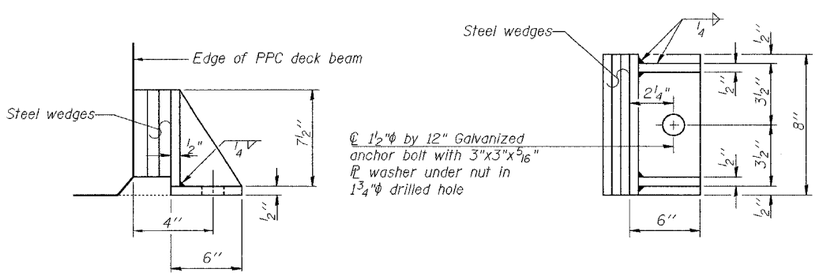
SECTION A-A
(Dimensions at right L's)



PERMANENT RETAINER DETAILS



PARTIAL PLAN
(Showing retainer locations)



TEMPORARY RETAINER AT STAGE CONSTRUCTION LINE
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Bar	No.	Size	Length (ft)	Shape
h(E)	3	#6	21'-0"	——
h_1(E)	3	#6	25'-3"	——
Reinforcement Bars, Epoxy Coated			Pound	210
Bar Splicers			Each	3
Concrete Structures			Cu. Yd.	3.4

NOTES

Install permanent retainer at north end of cap and temporary retainer at Stage Line prior to grouting Stage I shear keys. After Stage I concrete blockout is poured and cured and Stage I bituminous wearing surface is installed, the temporary retainer shall be removed. Burn existing anchor bolts flush with existing abutment surface. Grind anchor bolts smooth and seal with epoxy. Install permanent retainer at south end of cap prior to grouting Stage II shear keys. Cost of retainers, accessories and removal of temporary retainer is included with Precast Prestressed Concrete Deck Beams.

The side retainers shall be galvanized after shop fabrication according to AASHTO M111 and ASTM 385.

Reinforcement bars designated (E) shall be epoxy coated.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: EAST ABUTMENT

PROJECT: IL ROUTE 9 OVER MONEY CREEK
FAP ROUTE 693 SECTION 22 BR
MCLEAN COUNTY
STATION 1917+17.38
STRUCTURE NUMBER 057-0076

PROJECT NO. 05004-1
SCALE
DATE 12/15/05
DRAWN BY TFC
CHECKED BY CME/MCB
DRAWING NO. 8

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

OF 9 SHTS

FILE NAME = a:\dgn\pgn606-e-abut.dgn
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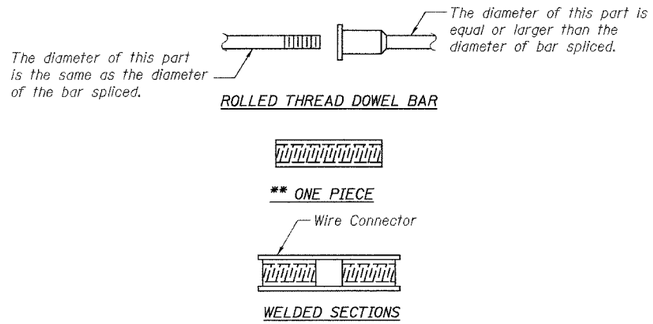
USER NAME = CFC.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 693	22 BR	MCLEAN	28	18
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 9

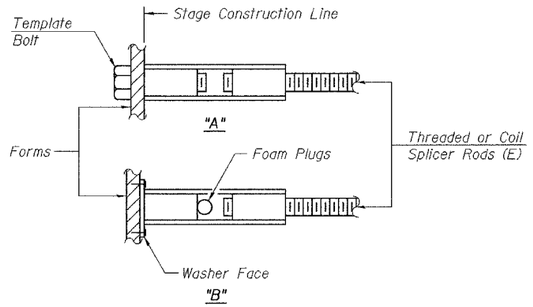
9 SHEETS

CONTRACT NO. 66583



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

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

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

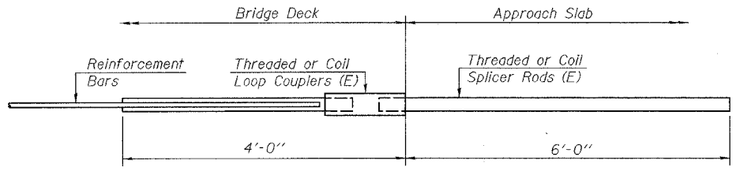
① Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times fs_{allow} \times A_t$

Where fy = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

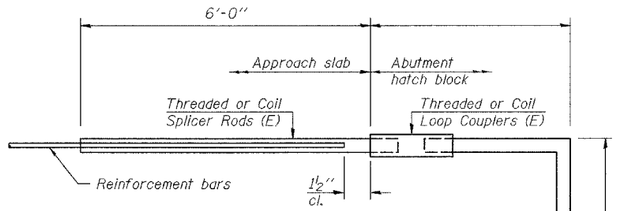
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0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

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



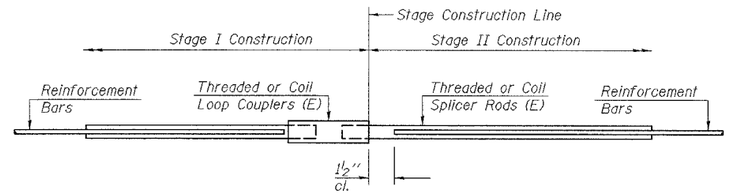
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



FOR PILE BENT ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#6	3	East Abut.
#5	3	Blockout

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: BAR SPLICER ASSEMBLY DETAILS

PROJECT: IL ROUTE 9 OVER MONEY CREEK
FAP ROUTE 693 SECTION 22 BR
MCLEAN COUNTY
STATION 1917+17.38
STRUCTURE NUMBER 057-0076

PROJECT NO. 05004-1
SCALE:
DATE: 12/15/05
DRAWN BY: TFG
CHECKED BY: CME/MCB
DRAWING NO. 9

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

9 OF 9 SHTS

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USER NAME = DFC.

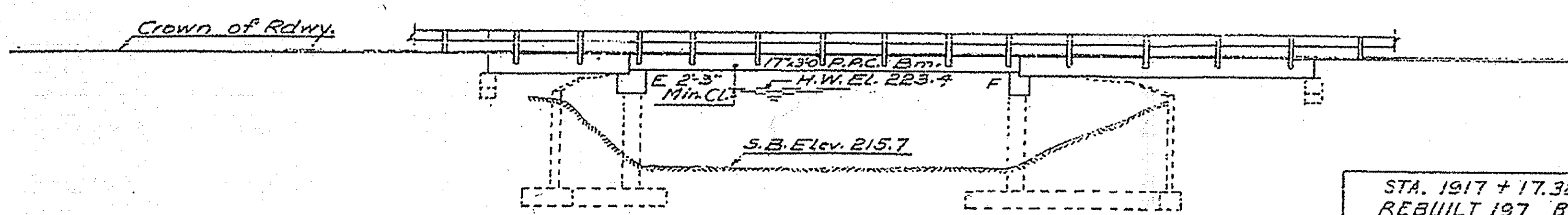
BSD-1 10-22-04

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.B.19	*	McLEAN	65	51

*21, 22 (R, W & RS), 21BR, 21BR-1 & 22BR

B.M. Square cut in Wingwall, 13' Rt. Sta. 1917+11
Elev. 227.51
Existing Structure № 057-0076 @ Sta. 1917+18 built in 1924 as S.B.I. Rte. 9, Sec. 22. Existing Conc. Bms to be removed and replaced with 11-17"x3'-0" P.P.C. Beams. Existing Abutments to be rebuilt as required by Bridge Contractor. Traffic shall be detoured during reconstruction.
No Salvage.



ELEVATION

STA. 1917 + 17.38
REBUILT 197_ BY
STATE OF ILLINOIS
S.B.I. RTE 9 SEC. 22 BR
LOADING HS 20

NAME PLATE
See Std. 2113

GENERAL NOTES

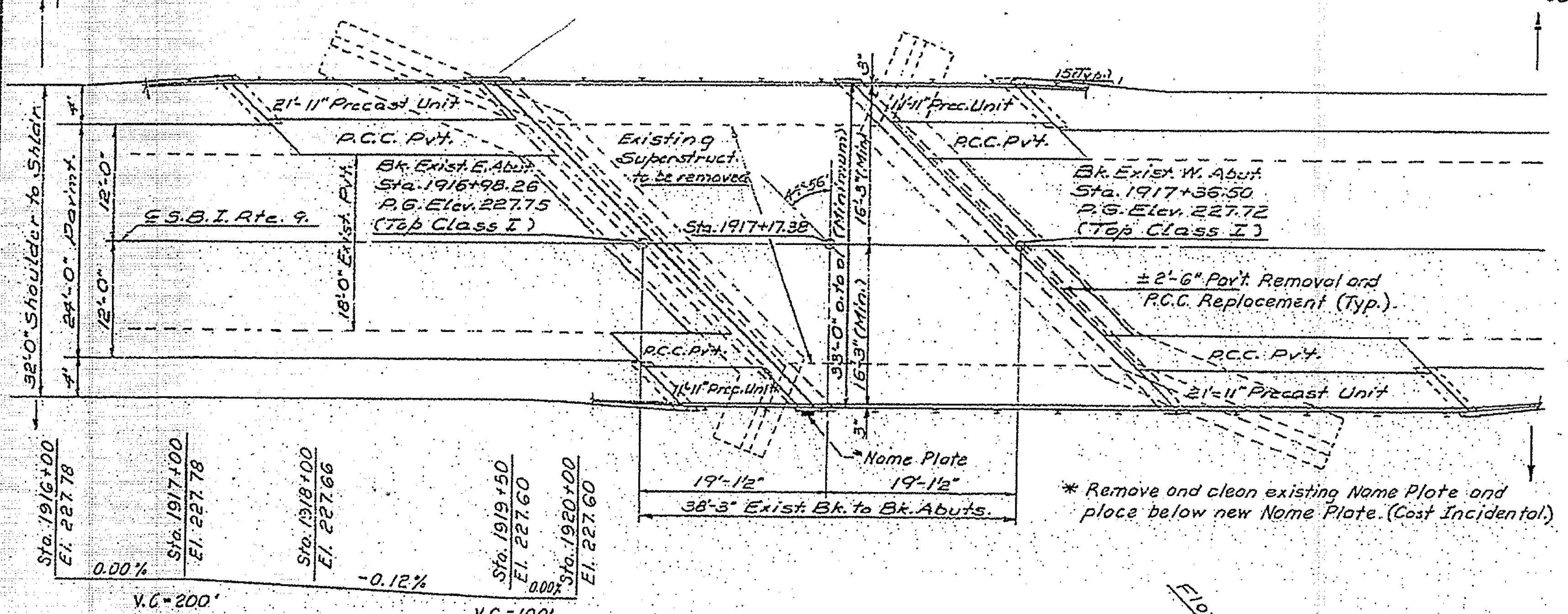
It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

The top surfaces of the beams shall be finished in accordance with article 503.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

The limits of Bituminous Concrete Surface Course shall be cut to out of deck and 2 feet beyond the back of each Abutment.

For Waterproofing Membrane System see Special Provisions.

Expansion bolts shall consist of self drilling expansion anchors and 3/4" ⌀ X 12" hooked bolts.



* Remove and clean existing Name Plate and place below new Name Plate. (Cost Incidental.)

PROFILE GRADE SBI. RTE. 9

PLAN

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
* Bit. Concrete Surface Course, Mixture D, Class I	Tons	15		15
Portland Cement Concrete Pavt. (10")	Sq. Yds.	23		23
Pavement Fabric	Sq. Yds.	23		23
Concrete Removal	Cu. Yds.		10	10
Expansion Bolts (3/4" Dia.)	Each	80	48	128
Class X Concrete	Cu. Yds.	3.8	23.7	27.5
P.P.C. Deck Beams (17")	Sq. Ft.	1216		1216
Portland Cement Mortar Fairing Course	Lin. Ft.	368		368
Steel Railing, Type S	Lin. Ft.	145		145
Reinforcement Bars	Lbs.	150	3140	3290
Waterproofing Membrane System	Sq. Yds.	144		144
Name Plates	Each		1	1
Precast Concrete Bridge Slab	Sq. Ft.	254		254
Furnishing and Erecting Structural Steel	Lbs.	3290		3290
Preformed Joint Sealer (2½")	Lin. Ft.	47		47
Removal of Existing Superstructure	Each	1		1
Pavement Removal and P.C.C. Replacement, Type 2 (10")	Sq. Yds.	10		10

* Includes Surfacing of P.P.C. Deck Beams only.

DESIGN STRESSES

PRECAST PRESTRESSED UNITS

$f'c$ = 5000 psi
$f'ci$ = 4000 psi
$f's$ = 270,000 psi (7/16 Strands)
fsi = 188,700 psi (7/16 Strands)

WATERWAY INFORMATION

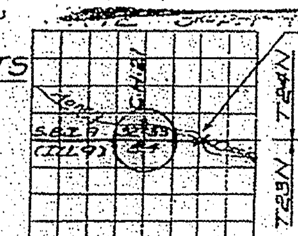
Drainage Area: 8.1 Sq. miles
Character: Level, Cultivated Farmland
Present Opening: 177 □'
Required Opening: 117 □'
Proposed Opening: 177 □'

$Q_{(50)}$ = 1168 cfs
ΔH = 0.27'
HWE = 223.4

FIELD UNITS
fc = 1400 psi (sub)
fs = 20000 psi (Reinf.)
n = 10

PRECAST UNITS
fc = 4,500 psi
fc = 1,800 psi
fs = 20,000 psi
n = 8

Loading HS20-44 (New Constr.)
1973 AASHTO, 1974 and 1975 Interim Specifications.
Allow 25#/□' for Future W.S.



LOCATION SKETCH

DESIGNED	G.P. Kogut
CHECKED	J.M. Buba
DRAWN	G.A. Sebastian
CHECKED	G.P. Kogut

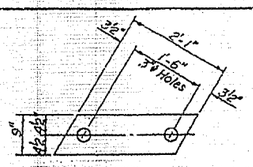
#81-2994

GENERAL PLAN & ELEVATION
S.B.I. RTE. 9 OVER MONEY CREEK
S.B.I. RTE. 9 SEC. 22 BR
McLEAN CO.
STA. 1917 + 17.38

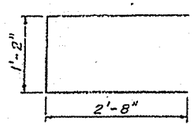
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.B.I.9	*	McLEAN	65	52

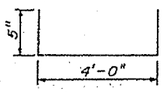
* 21, 22 (R, W & RS), 21BR, 21SR-1 & 22BR



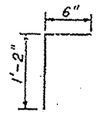
FABRIC BEARING PAD



U_1 BAR

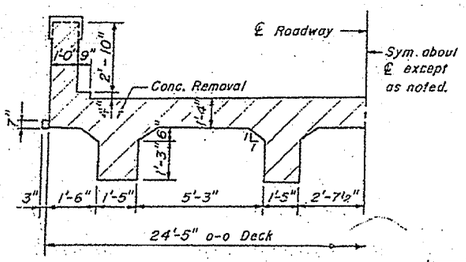


U_2 BAR

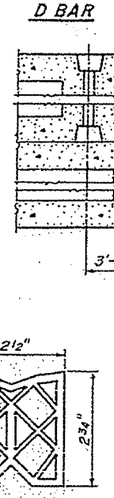


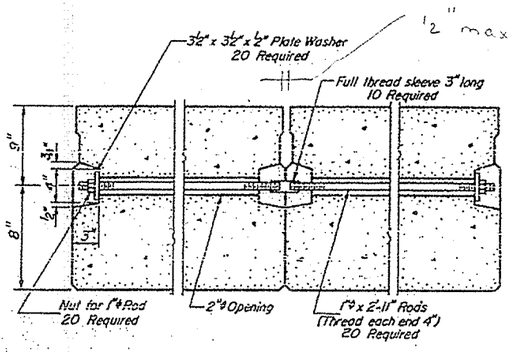
D BAR

GRAPHITED ASBESTOS BEARING PAD

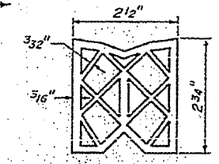


EXIST. HALF SECTION

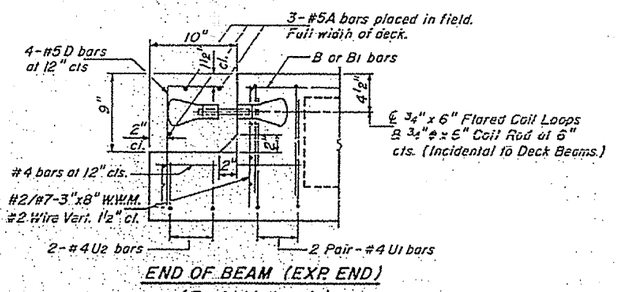




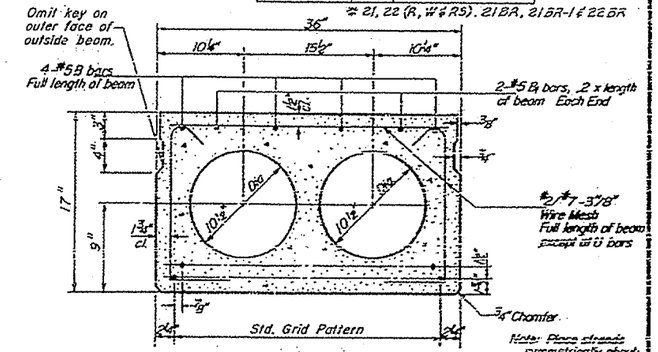
TYPICAL TRANSVERSE TIE ASSEMBLY



PREFORMED JOINT SEALER (2½")



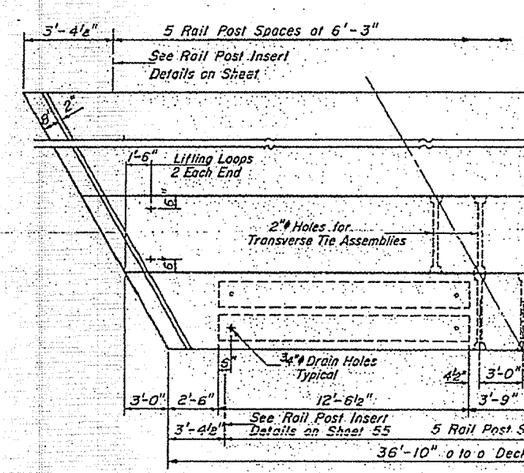
END OF BEAM (EXP. END)
(East Abut. only)



TYPICAL SECTION

14-7/16" ϕ Strands, Each Strand Stressed to 21,700 Lbs.
8-Strands 1¾" up, 6-Strands 3¼" up.

FOR INFORMATION ONLY



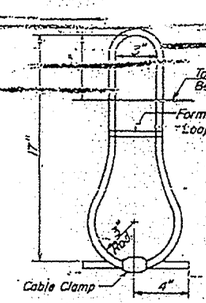
PLAN

END PLAN (FIXED END)
(West Abut. only)

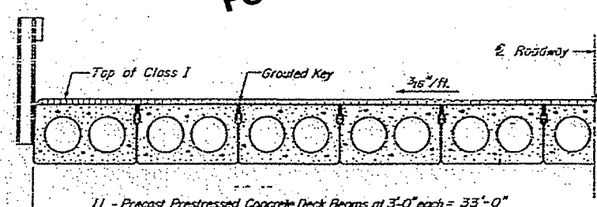
PREFORMED JT. SEALER AT E. ABUT.

Note: Dimensions are at right angles. Hatch areas to be poured after beams have been erected and joints grouted.

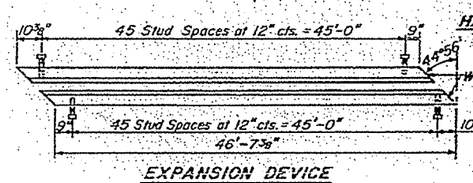
CAMBER DIAGRAM



LIFTING LOOP DETAIL



HALF CROSS SECTION



EXPANSION DEVICE
(92-¾" ϕ x 8" Studs Req'd.)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
A	6	#5	24"-4"	
B	44	#5	36'-7"	
B1	44	#5	7'-5"	
D	44	#5	1'-8"	
U1	132	#4	5'-0"	
U2	22	#4	4'-10"	

Preformed Jt. Sealer (2½")	Lin. Ft.	47
Precast Prestressed Concrete Deck Beams	No.	1216
Portland Cement Mortar Fairing Course	Lin. Ft.	368

NOTES

Lifting loops shall be 2" I.D. diameter, 6 x 25 steel wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Longitudinal shear keys shall be packed with one day mix of 2:1 sand and P.C. mortar.

After beams have been erected, holes for the dowel anchors shall be drilled into the substructure and the anchor dowels shall be grouted in place.

Dowel rods shall be AASHO M 227 or AASHO M 31 Transverse tie rods shall be AASHO M 227 Grade 70-60.

After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with AASHO Designation M 232.

Cost of reinforcement and accessories cast into the beam, of bearing pads and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

DESIGNED	G.P. Kogut
CHECKED	J.M. Bubo
DRAWN	G.A. Sebastian
CHECKED	G.P. Kogut

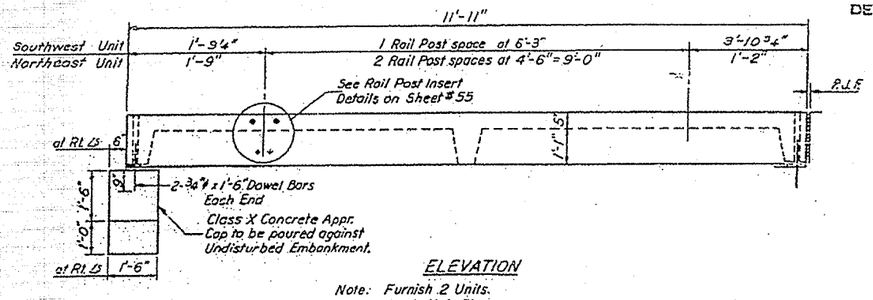
PD-1-R

36" X 17" DECK BEAM DETAILS
S.B.I. RTE. 9 OVER MONEY CREEK
SECTION 22 BR
McLEAN COUNTY

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

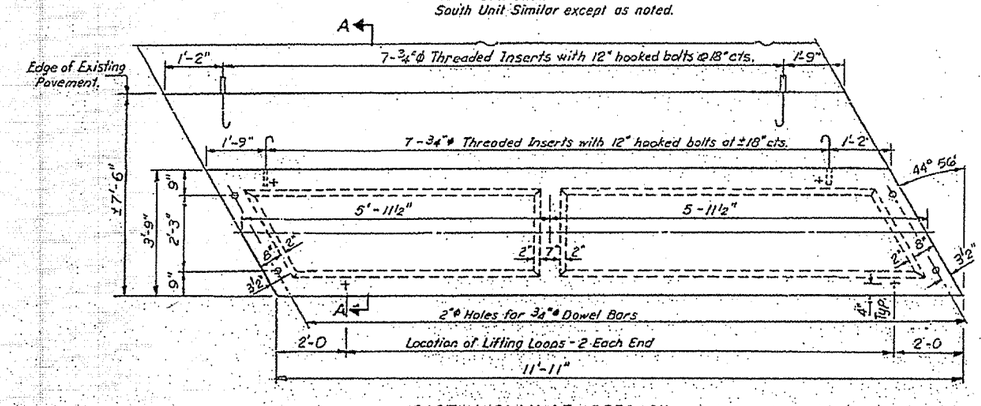
SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 9	*	McLEAN	65	53
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

* 21, 22 (A, W & RS), 21BR, 21BR-1 & 22BR

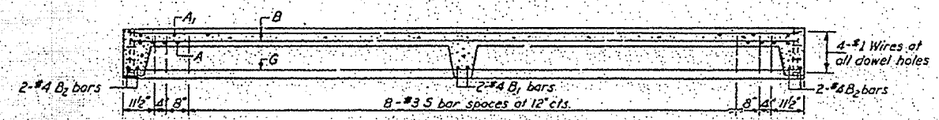


ELEVATION

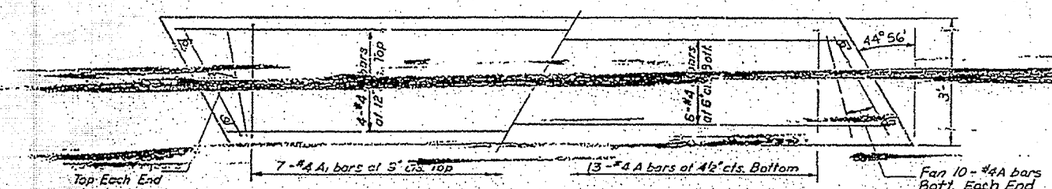
Note: Furnish 2 Units.
North Unit Shown.
South Unit Similar except as noted.



PARTIAL PLAN OF APPROACH
(North Unit Shown)
(South Unit Similar)

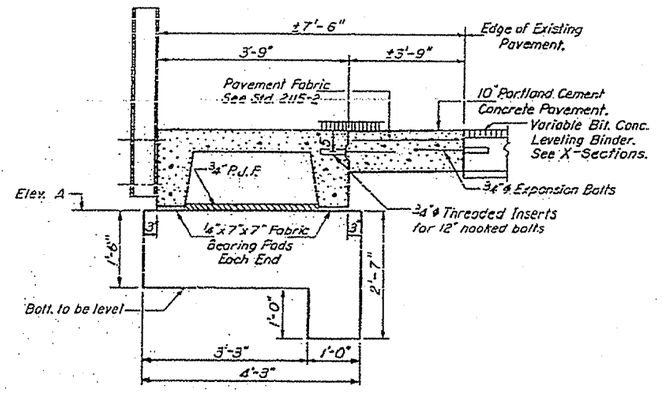


LONGITUDINAL SECTION

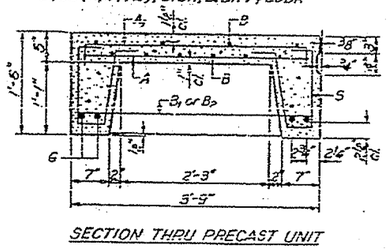


SLAB REINFORCEMENT

DESIGNED	G. P. Kogut
CHECKED	J. M. Bubo
DRAWN	G. K. Sebastian
CHECKED	G. P. Kogut

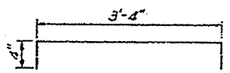


SECTION A-A

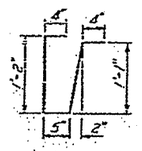


SECTION THRU PRECAST UNIT

FOR INFORMATION ONLY



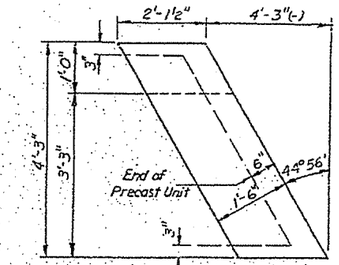
BAR A1



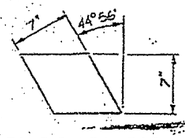
BAR S

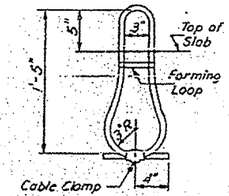
BAR LIST - ONE UNIT
Reinforcement to be cast into slab

Bar	No.	Size	Length	Shape
A	35	#4	3'-3"	
A1	17	#4	4'-6"	
B	10	#4	11'-7"	
B1	2	#4	3'-6"	
B2	4	#4	5'-0"	
G	4	#8	11'-7"	
S	8	#3	3'-4"	



PLAN - APPR. CAP





LIFTING LOOP DETAIL

TABLE OF ELEVATIONS

Sta. 1916+59.10, 16.5' LT.	225.61
Sta. 1917+00.00, 16.5' RT.	225.84
Sta. 1917+31.60, 16.5' LT.	225.83
Sta. 1917+74.52, 16.5' RT.	225.53

NOTES

Unless otherwise approved by the Engineer, lifting loops shall be 1/2" ø, 6 x 19 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected.

Holes shall be drilled and anchor dowels grouted in place.

Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/4" ø hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab."

The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

TWO UNITS

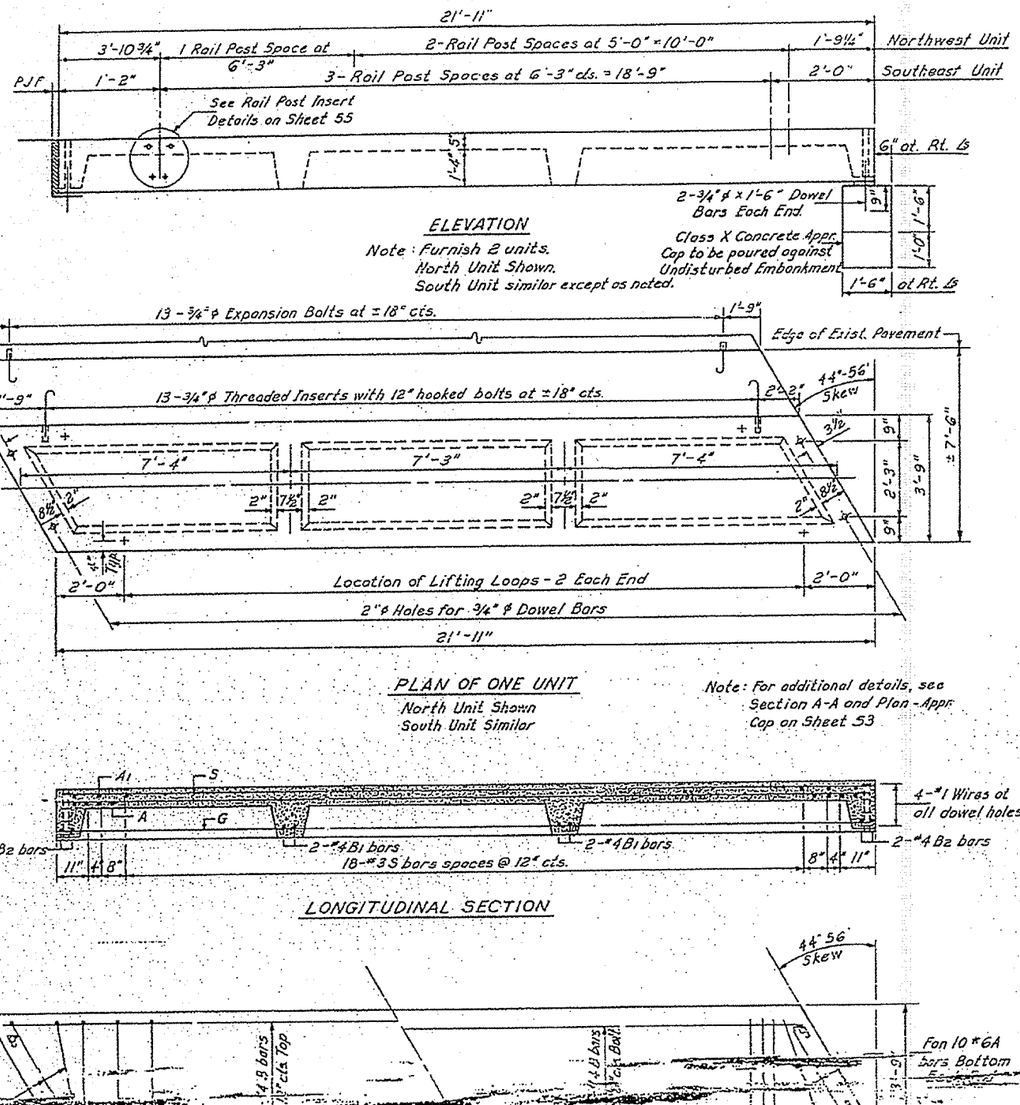
SUMMARY OF MATERIAL			
Precast Concrete Bridge Slab	Sq. Ft.	89	
Portland Cement Concrete Pavement (10")	Sq. Yds.	10	
Pavement Fabric	Sq. Yds.	10	
Expansion Bolts 3/4"ø	Each	28	
Class X Concrete	Cu. Yds.	1.4	

STRESSES
$f_c = 4,500$ psi.
$f_c = 1,800$ psi.
$f_s = 20,000$ psi.
$n = 8$
LOADING H S-20

PRECAST CONCRETE BRIDGE SLAB
S.B.I. RTE. 9 OVER MONEY CREEK
SECTION 22 BR
McLEAN COUNTY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 9	*	McLEAN	65	54
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 21, 22 (2, W & P.S.), 213R, 213P-11Z2B



ELEVATION

Note: Furnish 2 units.
North Unit Shown.
South Unit similar except as noted.

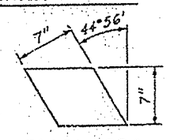
PLAN OF ONE UNIT

North Unit Shown
South Unit Similar

Note: For additional details, see Section A-A and Plan - Appr. Cap on Sheet 53

LONGITUDINAL SECTION

SLAB REINFORCEMENT

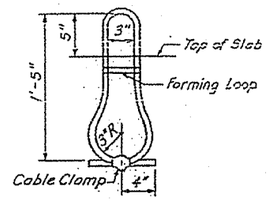


FABRIC BRG. PAD

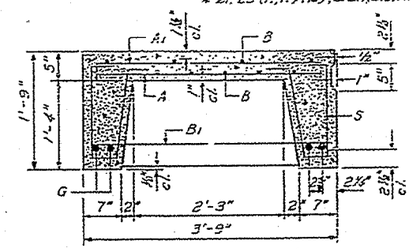
STRESSES

f'c = 6,500 psi
fc = 1,800 psi
fs = 20,000 psi
n = 8

LOADING HS-20

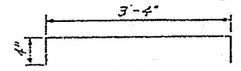


LIFTING LOOP DETAIL

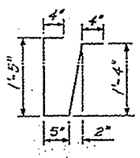


SECTION THRU PRECAST UNIT

FOR INFORMATION ONLY



BAR A1



BAR S

BAR LIST - ONE UNIT

Reinforcement to be cast into slab.

Bar	No.	Size	Length	Shape
A	39	#4	3'-3"	
A1	30	#4	4'-0"	
B	10	#4	21'-7"	
B1	4	#4	3'-6"	
B2	4	#4	5'-0"	
G	4	#11	21'-7"	
S	18	#3	3'-10"	

NOTES

Unless otherwise approved by the Engineer, lifting loops shall be ½"ϕ 6 x 9 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected.

Holes shall be drilled and anchor dowels grouted in place.

Cost of reinforcement and accessories cost into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels is included in Unit bid price for "Precast Concrete Bridge Slab."

The "Precast Concrete Bridge Slab" shall be erected aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

TWO UNITS

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	165
Pavement Fabric	Sq. Yds.	18
Expansion Bolts ¾"ϕ	Each	52
Class X Concrete	Cu. Yds.	1.4

DESIGNED	G. P. Kogut
CHECKED	J. M. Bubo
DRAWN	G. A. Sebastian
CHECKED	G. P. Kogut

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE BRIDGE SLAB
S.B.I. RTE. 9 OVER MONEY CREEK
SECTION 22 BR
MC LEAN COUNTY

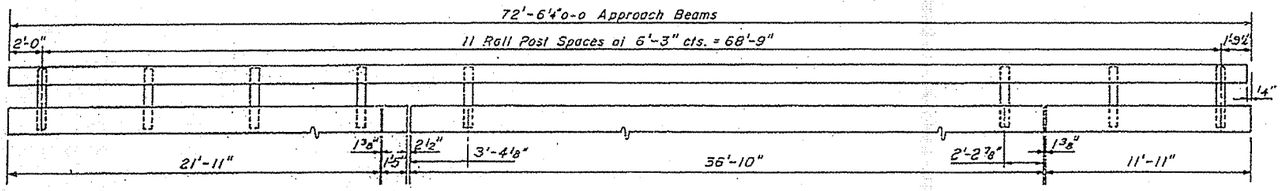
Scale: As Shown
Date: Jan. 1976
Drawn By
Checked By

HNEDZIL, REINER, STONE & ASSOCIATES, INC.
Consulting Engineers — Champaign, Illinois

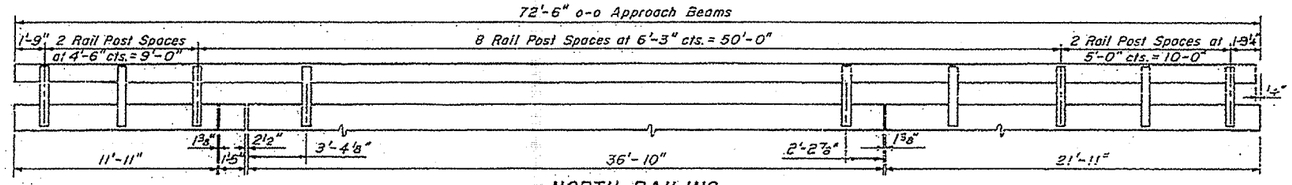
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.B.I. 9	*	McLEAN	65	55

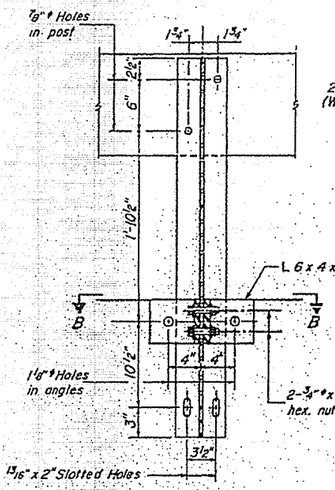
* 21, 22 (R, W & RS), 21BR, 21SR-1 & 22BR



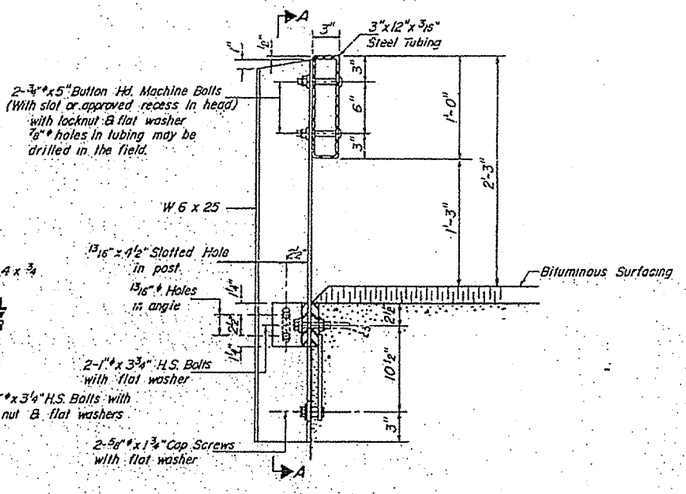
SOUTH RAILING



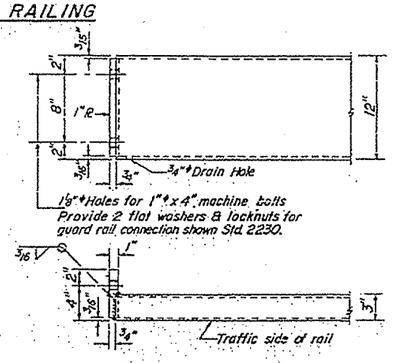
NORTH RAILING



SECTION A-A



SECTION AT RAIL POST



END OF RAIL DETAILS

NOTES

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B or A-501 Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHO designation M 183 except posts shall conform to AASHO M 188.

Bolts, cap screws, and nuts shall conform to the requirement of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to A.S.T.M. designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHO designation M 232.

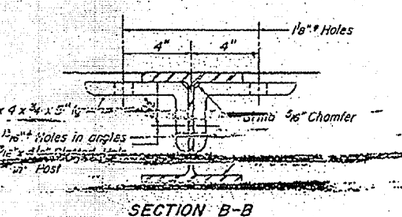
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHO designation M111 and A.S.T.M. 385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE S.

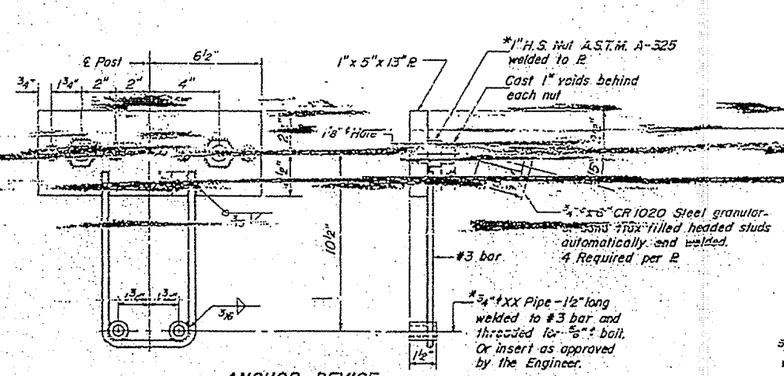
All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place ⅛" fabric bearing pad between the post and concrete.

The ⅞"ø high strength bolts used to connect the 6 x 4 x ¾ angles to the post shall be tightened in accordance with Article 507.04(g)(3) of the Standard Specifications. The 1"ø high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional ⅛ turn.

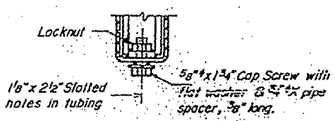


SECTION B-B

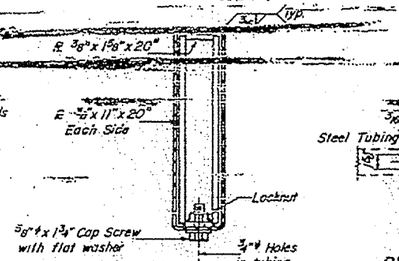


ANCHOR DEVICE

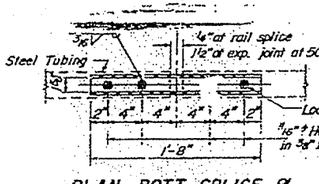
*Threaded areas shall be plugged or blocked off during casting of beam.



RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE



PLAN - BOTT. SPLICE PL TYPICAL

Item	Unit	Quantity
Steel Railing, Type S	Lin. Ft.	145

TYPE S
STEEL RAILING
S.B.I. RTE. 9 OVER MONEY CREEK
SECTION 22 BR
McLEAN COUNTY

DESIGNED	G. P. Kogut
CHECKED	J. M. Buba
DRAWN	G. A. Sebastian
CHECKED	G. P. Kogut

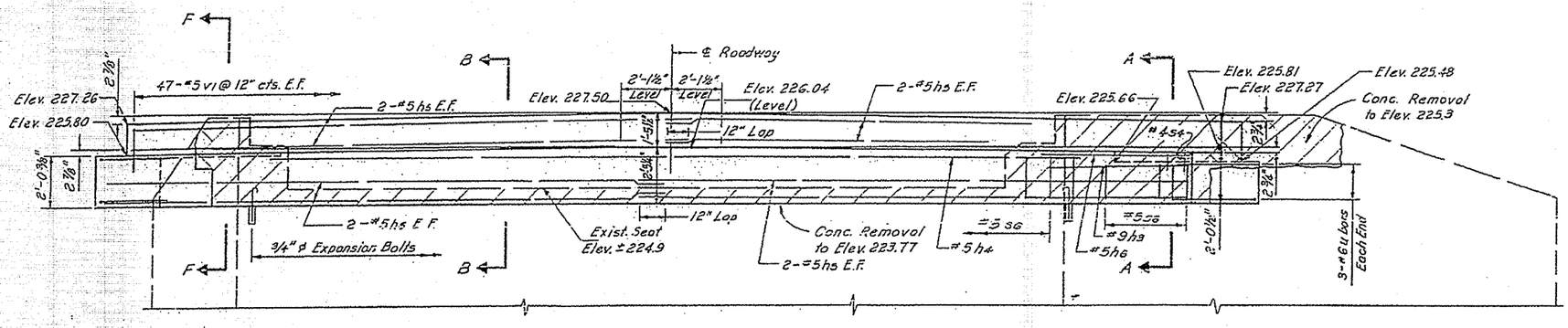
(6'-3" Maximum Post Spacing)

FOR INFORMATION ONLY

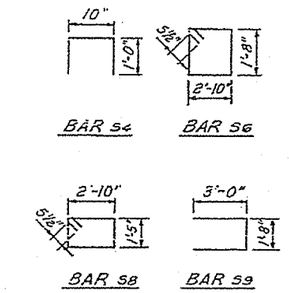
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 9	*	McLEAN	65	56
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

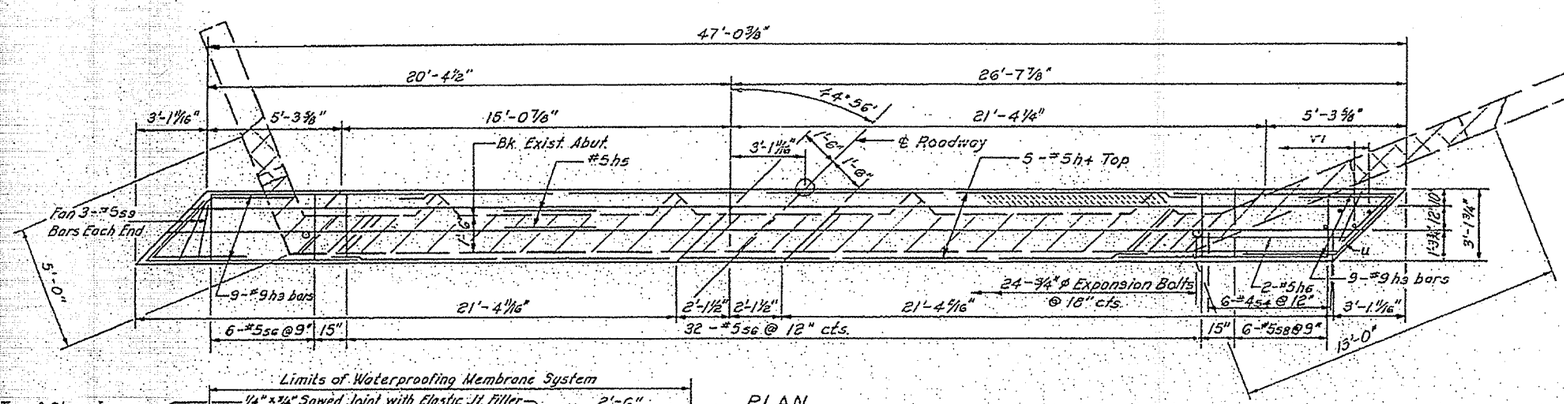
* 21, 22 (R. W.S.F.S.), 21BR, 21BR-1 & 22SR

FOR INFORMATION ONLY

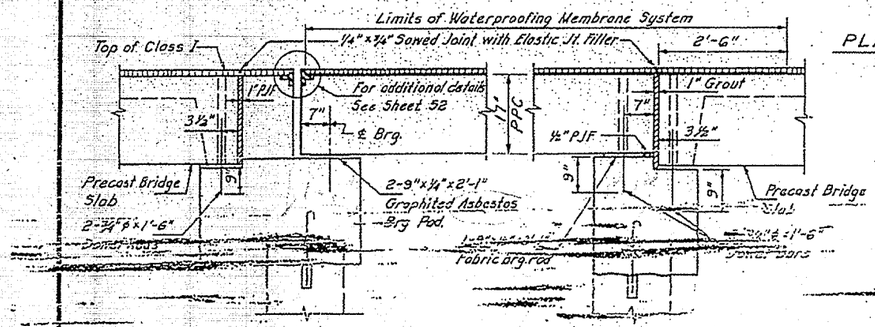


ELEVATION

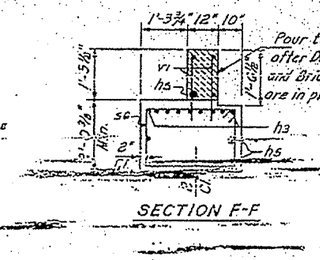




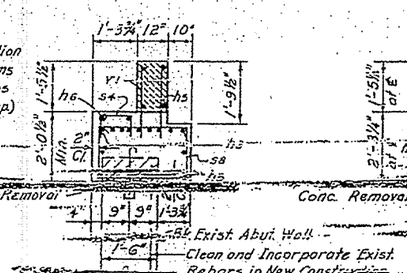
PLAN



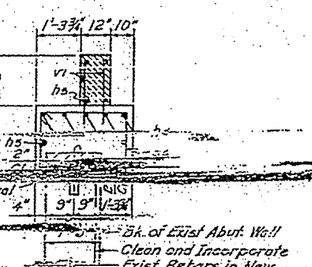
SECTION THRU ABUTMENTS AT OUTSIDE BEAM
(Looking South)



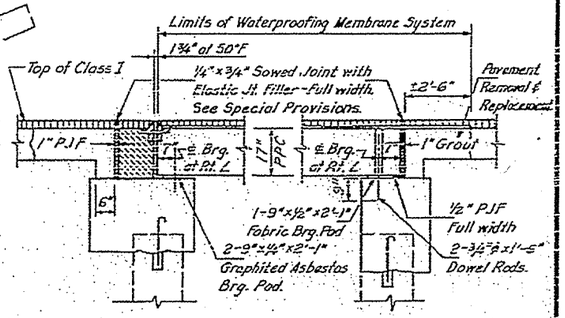
SECTION F-F



SECTION A-A



SECTION B-B



℄ SECTION THRU ABUTMENTS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3	18	#9	8'-6"	
h4	5	#5	32'-0"	
h5	16	#5	23'-10"	
h6	2	#5	6'-3"	
v1	94	#5	2'-6"	
s4	6	#4	2'-10"	
s5	32	#5	32'-0"	
s8	6	#5	9'-5"	
s9	6	#5	7'-5"	
Expansion Bolts	¾" ϕ		Each	64
Class X Concrete			Cu. Yd.	14.6
Reinforcement Bars			Lbs.	2253
Concrete Removal			Cu. Yds.	4

DESIGNED	G. P. Kogut
CHECKED	J. M. Bubo
DRAWN	G. A. Sebastian
CHECKED	G. P. Kogut

REVISIONS	
Name	Date

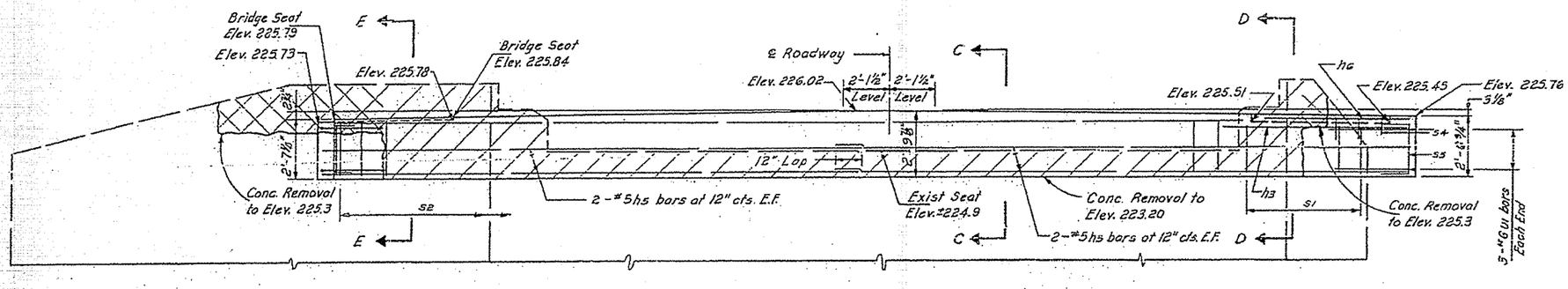
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
EAST ABUTMENT
S.B.I. RTE. 9 OVER MONEY CREEK
SECTION 22 BR
MC LEAN COUNTY

Scale: As Shown — Drawn By
Date: Jan. 1976 — Checked By

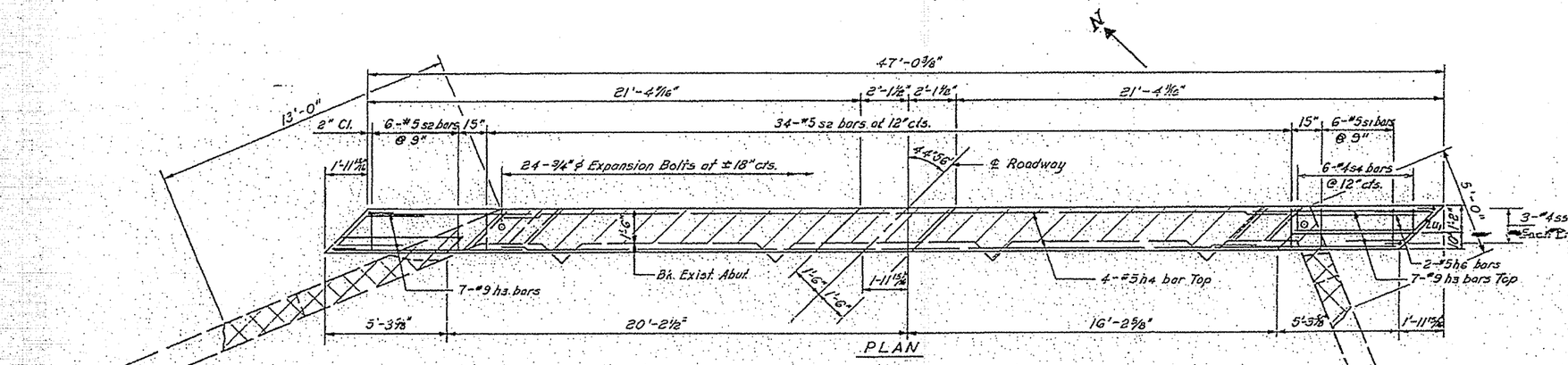
HOSKINS, E. REMBER, STOUT & ASSOCIATES, INC.
Consulting Engineers — Chicago, Illinois

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 9	22	McLEAN	65	57
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 21, 22 (A, W & AS), 61BR, 61BR-1 & 22BR



ELEVATION
(Developed)

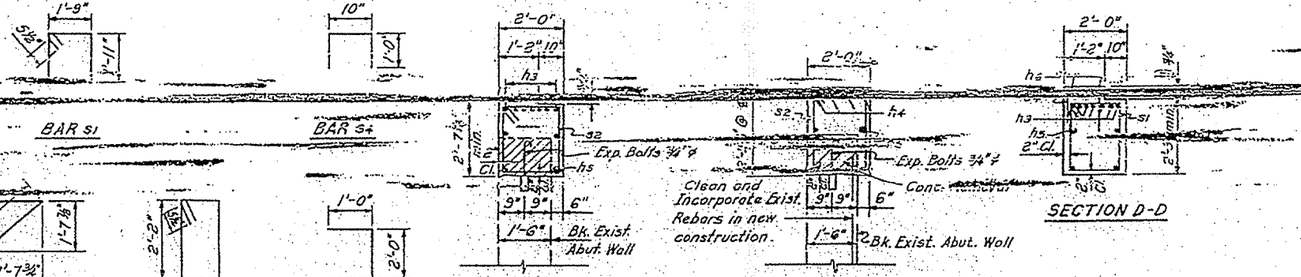


PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3	14	#9	8'-6"	
h4	4	#5	32'-0"	
h5	8	#5	23'-10"	
h6	2	#5	6'-3"	
s1	6	#5	8'-3"	
s2	40	#5	8'-9"	
s4	6	#4	2'-10"	
s5	6	#4	4'-0"	
u1	6	#5	15'-2"	

Reinforcement Bars	
Concrete Removal	Cu.Yds. 6
Expansion Bolts, ¾" ø	



DESIGNED	G. P. Kogut
CHECKED	J. M. Bubo
DRAWN	G. A. Sebastian
CHECKED	G. P. Kogut

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WEST ABUTMENT
S.B.I. RTE. 9 OVER MONEY CREEK
SECTION 22 BR
MC LEAN COUNTY

Scale: As Shown — Drawn By
Date: Jan. 1976 — Checked By

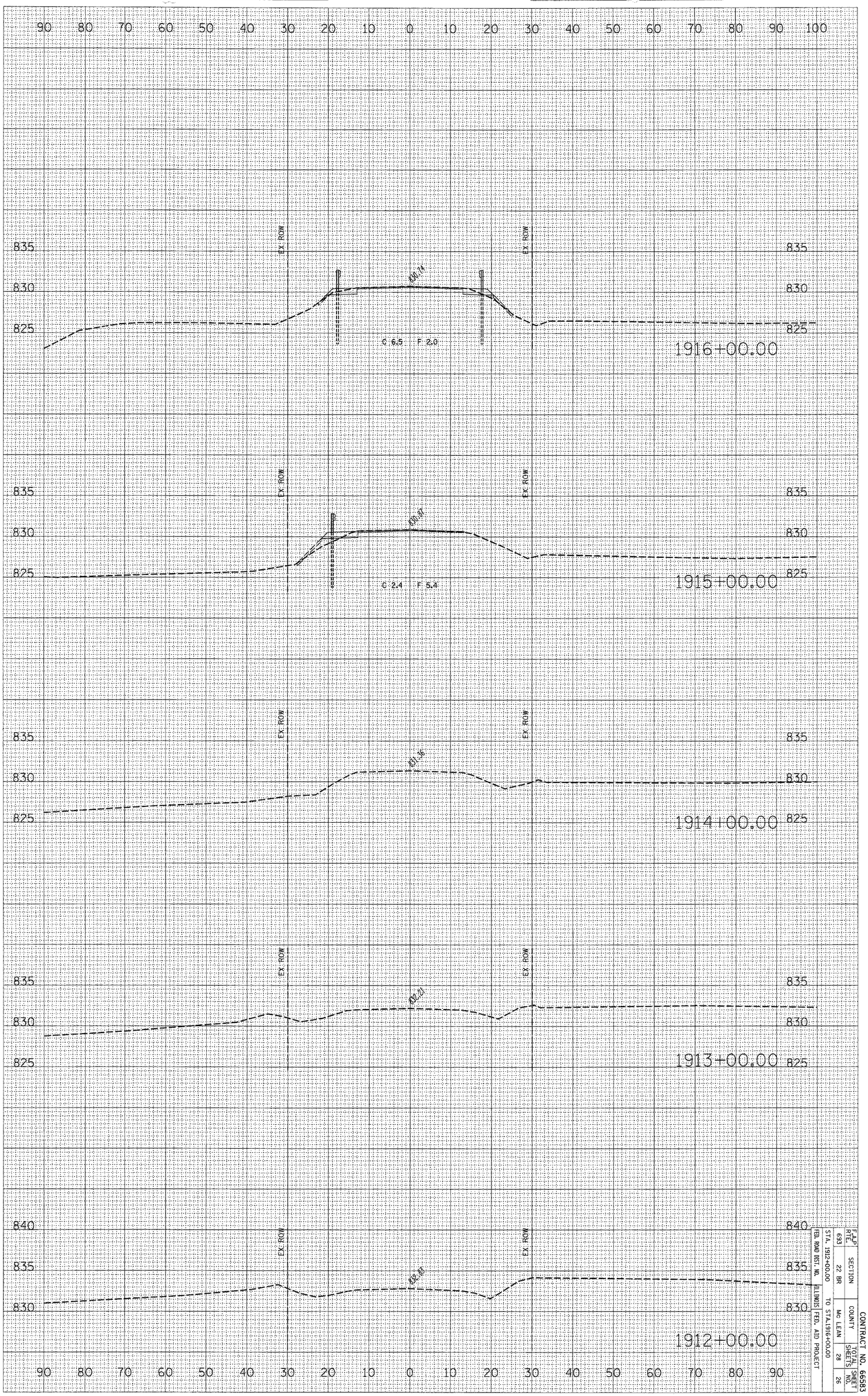
KNIGHTLY, DENNER, STONE & ASSOCIATES, INC.

FOR INFORMATION ONLY

PLOT DATE = 12/15/2005
FILE NAME = ...\05\05004\05004-1\v8\xssht.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = CFC

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

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



F.A.P. RTE.	SECTION		CONTRACT NO. 66583
693	22 BR		
STA. 1912+00.00	COUNTY	TOTAL SHEETS	SHEET NO.
TO STA.1916+00.00	Mc LEAN	28	26
RTE. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

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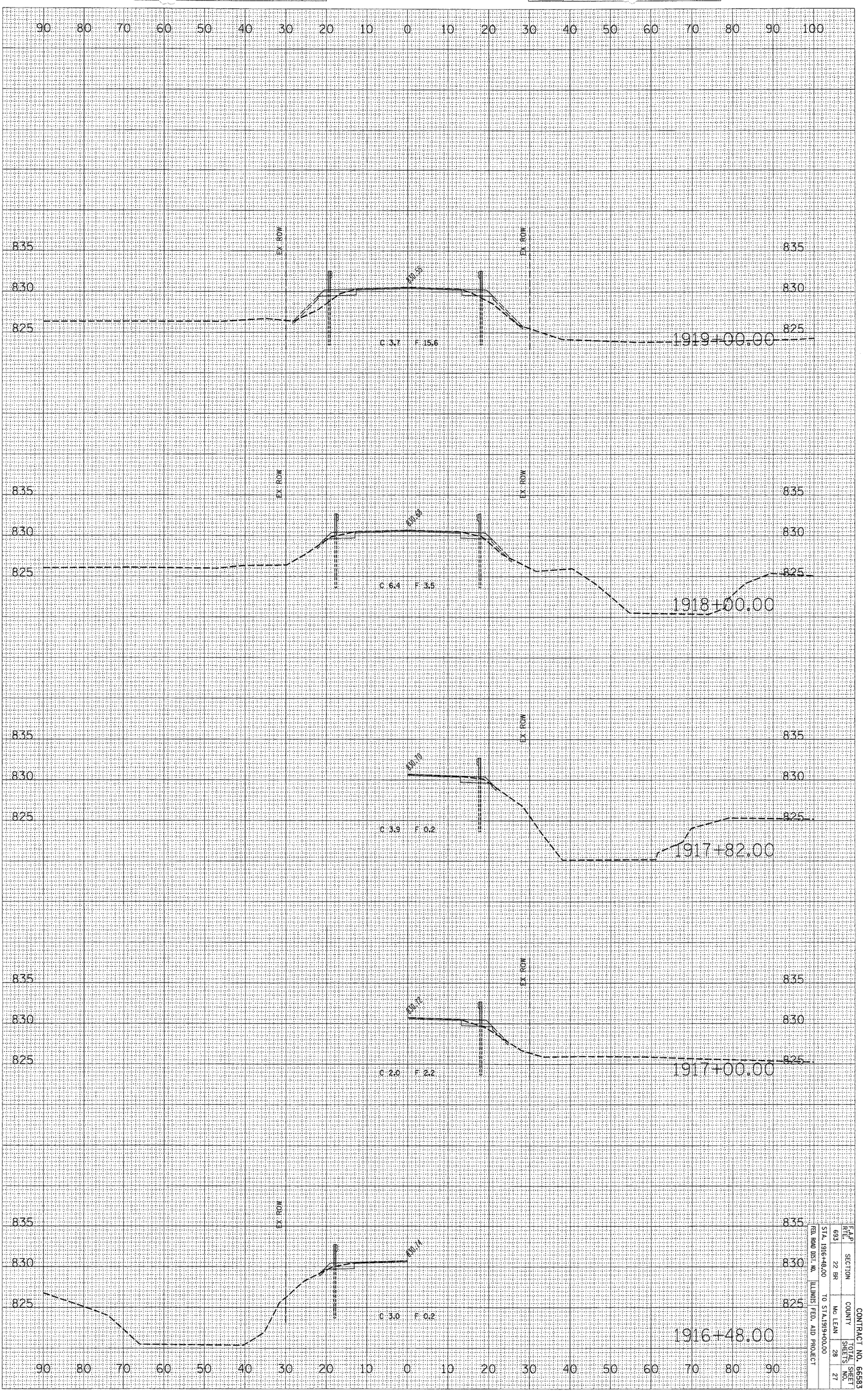
USER NAME = CFC

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	27

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STA. 1916+48.00 TO STA. 1919+00.00

CONTRACT NO. 66583

PLOT DATE = 12/15/2005
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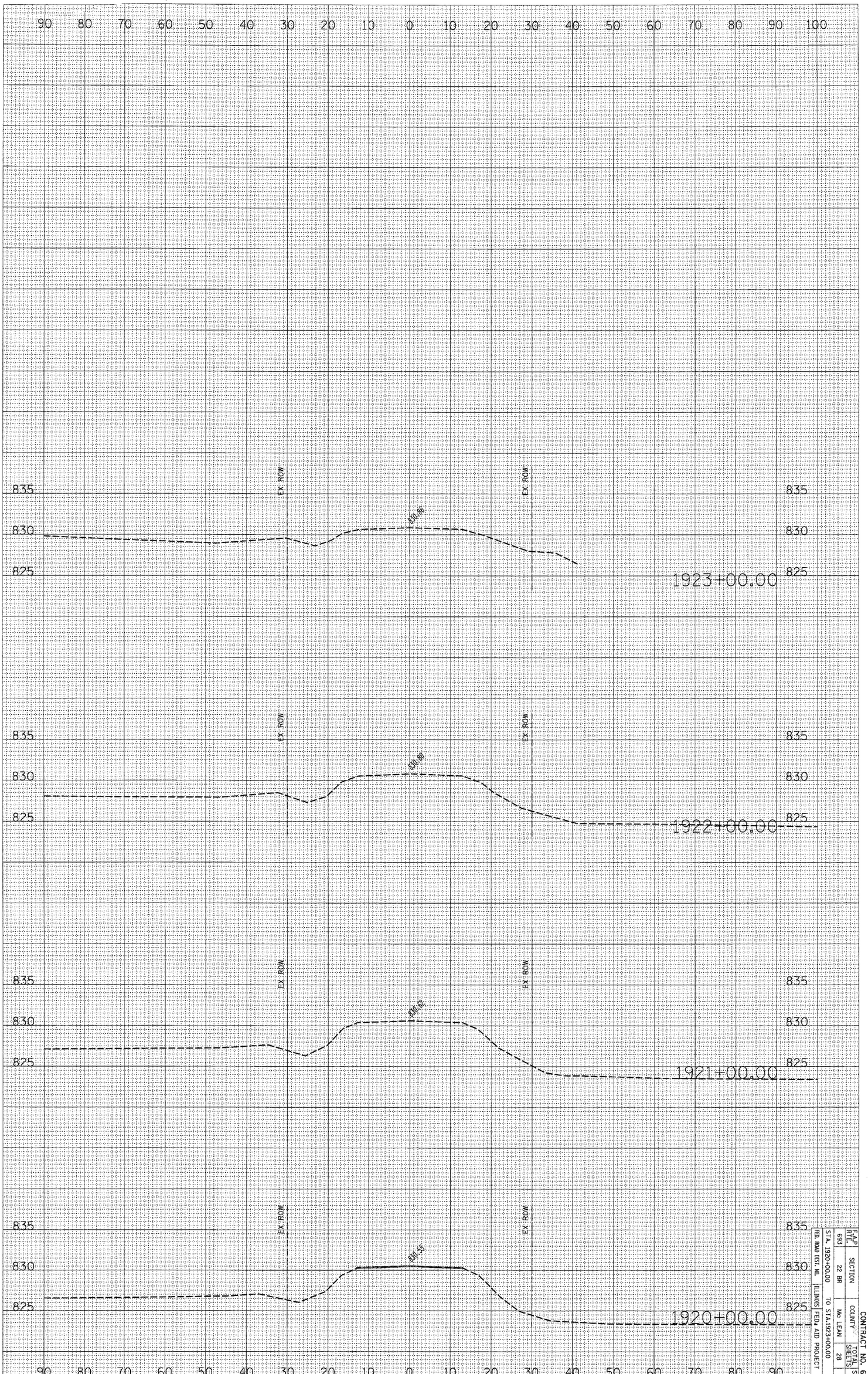
PLOT SCALE = 10.0000 ' / IN.
USER NAME = CFC

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	22 BR	Mc LEAN	28	28

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STA. 1920+00.00 TO STA. 1923+00.00

CONTRACT NO. 66583