CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(20BR)I-1	PUTNAM	~~26~~ 25	1

4-25-08 Letting, Item 137

DESIGNER: CLARK JONES
PHONE: (309)671-3452

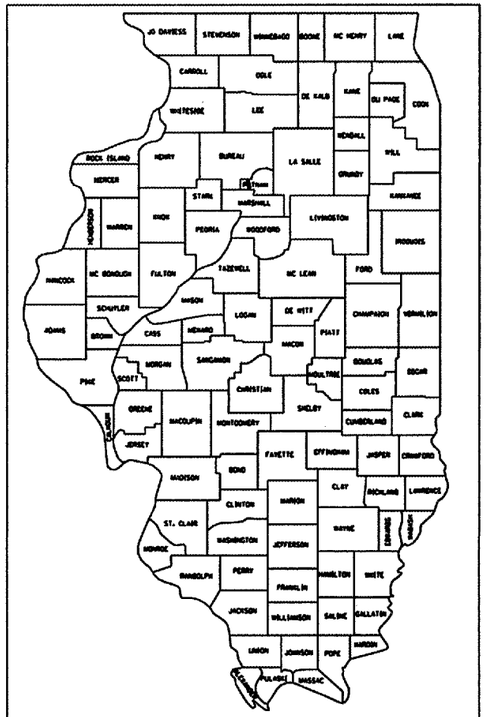
PROJECT ENGINEER: JIM MILLER
PHONE: (309)671-3451

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

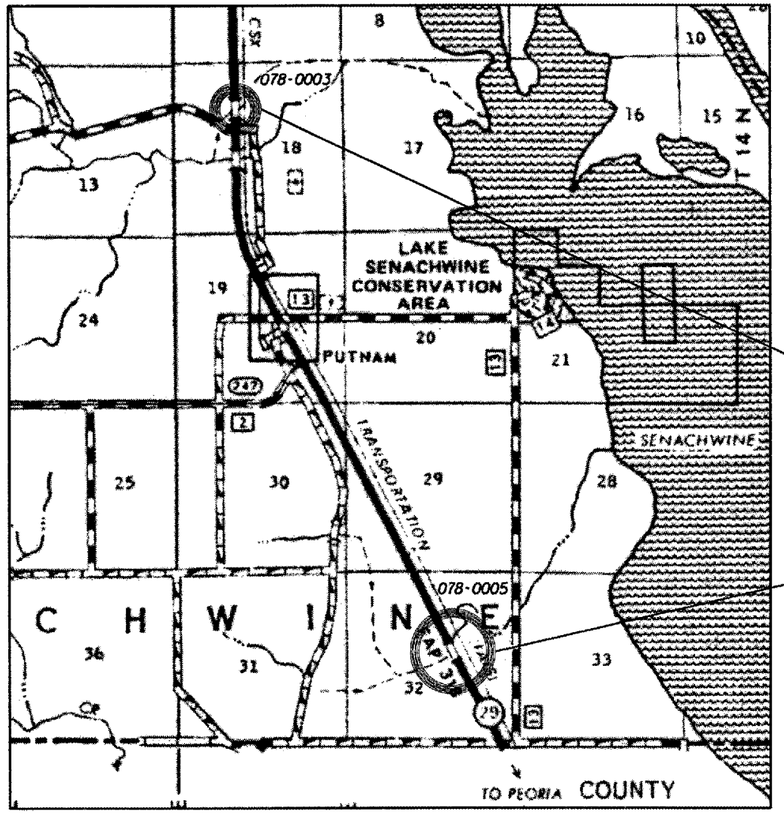
PROPOSED HIGHWAY PLANS

FAP 318 (IL 29)
SECTION (21B-1)I, (20BR)I-1
PUTNAM COUNTY
C-94-062-07

D-94-043-07



LOCATION OF SECTION INDICATED THUS:- ▬



LOCATION MAP

WEARING SURFACE REMOVAL & REPLACEMENT WITH LATEX MODIFIED CONCRETE SURFACE ON STRUCTURES CARRYING IL. 29 OVER SENACHWINE CRK. (SN.078-0003), AND IL. RIVER TRIB. (SN.078-0005). ALSO JOINT REMOVAL & REPLACEMENT W/STRIP SEALS ON (SN.078-0003).

INDEX OF SHEETS:

STANDARDS:

701001-01 701321-09 704001-02
701006-02 701326-02 780001-01
701201-02 701901

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Feb 29 20 08

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21 20 08
Eric E. Harm
Interim ENGINEER OF DESIGN AND ENVIRONMENT

March 21 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 68713 CAT. NO. 033505-00D

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(20BRDI-1	PUTNAM	24	2
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70

COMMITMENTS

No commitments have been made for this project.

GENERAL NOTES

Plan dimensions and details relative to 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 bid for the work.

SN.078-0003 & 0005, IL.29 over Senachwine Crk. & IL. River Trib.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: VERT. HORIZ.
DATE 11-07-2007

DRAWN BY CEJ
CHECKED BY

PLOT DATE = #DATE#
FILE NAME = #FILEL#S\VGEN\DRAFTYSTDPLNS\SDUADI4\BRIDGE CONTRACTS\68713 SN078-0003-0005\68713-IL.2Power Senachwine Crk.&IL.R\vdgn
PLOT SCALE = #SCALE#
PLOT DATE = #SCALE#
REFERENCE = #REF#

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(20BR)I-1	PUTNAM	24	3
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70

SUMMARY OF QUANTITIES

CODE NO.	ITEM	100% STATE SAFETY - 2A PUTNAM COUNTY-RURAL			
		UNIT	0003	0005	TOTAL
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	838	876	1714
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	20.5	20.5	41
42001300	PROTECTIVE COAT	SQ YD	24.7		24.7
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	245	245	490
44000915	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	501	138	639
44004250	PAVED SHOULDER REMOVAL	SQ YD	463	460	923
50102400	CONCRETE REMOVAL	CU YD	11		11
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11		11
50300260	BRIDGE DECK GROOVING	SQ YD	476	128	604
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	830		830
50800515	BAR SPLICERS	EACH	8		8

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT. HORIZ.
DATE 11-07-2007
DRAWN BY CEJ
CHECKED BY

PLOT DATE = $DATE$
FILE NAME = $FILEL:$
PLOT SCALE = $SCALE$
REFERENCE = REF

$FILEL:$ C:\DEN\DRAFT\STD&PLNS\SOUARDI-4\BRIDGE CONTRACTS\68713 SN078-0003-SN078-0005\68713-IL-2Rover SenachwineCr-hAIL.Rv.dgn

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(20BR)I-1	PUTNAM	24	4
STA. •	TO STA. •			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

• 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	100% STATE SAFETY - 2A PUTNAM COUNTY-RURAL 0003	0005	TOTAL
67100100	MOBILIZATION	LSUM	0.5	0.5	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	0.5	0.5	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	0.5	0.5	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	2
70300520	PAVEMENT MARKING TAPE, TYPE III, 4"	FOOT	2090	2075	4165
70301000	WORKZONE PAVEMENT MARKING REMOVAL	SQFT	698	692	1390
70400100	TEMPORARY CONCRETE BARRIER	FOOT	565	500	1065
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	565	491	1056
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	1197	1111	2308
78300100	PAVEMENT MARKING REMOVAL	SQ FT	399	370	769
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2	4	6

* SPECIALTY ITEM

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT. HORIZ.
DATE 02-11-2008
DRAWN BY CEJ
CHECKED BY

PLOT DATE : $DATE$
FILE NAME : $FILELIS\GEN\DRAFT\STD&PLNS\SQUAD14\BRIDGE CONTRACTS\68713 SN078-0003-0005\68713-IL.29over SenachwineCrk.&IL.Riv.dgn
PLOT SCALE : $SCALE$
REFERENCE : REF

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(218-1)I,(208R)I-1	PUTNAM	24	5
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	100% STATE SAFETY - 2A PUTNAM COUNTY-RURAL UNIT	0003	0005	TOTAL
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	14	14	28
*	X7200201	WIDTH RESTRICTION SIGNING	LSUM	0.5	0.5	1
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	107		107
	X0322489	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	501	138	639
	Z0006204	BRIDGE DECK HYDRO-SCARIFICATION 1/2"	SQ YD	501	138	639
	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	4
	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	4

ADDITIONAL 4'-0" ADDED FOR STRIP SEAL OVERHANG AS PER DETAIL

*SPECIALTY ITEM

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE 11-07-2007

DRAWN BY CEJ
CHECKED BY

PLOT DATE = $DATE$
FILE NAME = $FILEL$\GENORAFT\STDPLNS\SDA404\BRIDGE CONTRACTS\68713 SN078-0003-0005\68713-IL.2Pover SenachwineCrkILRiv.dgn
PLOT SCALE = $SCALE$
REFERENCE = $REFS$

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)1,(20BR)1-1	PUTNAM	25	6
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70

SCHEDULE OF QUANTITIES

EPOXY PAVEMENT MARKING LINE, 4" & PAVEMENT MARKING REMOVAL

LOCATION STA. TO STA.	PVMT. MRKG. LINE, 4"		PVMT. MRKG. REM.	
	WHITE EDGELINE (FT.)	YELLOW SKIP DASH (FT.)	WHITE EDGELINE (SQ.FT.)	YELLOW SKIP DASH (SQ.FT.)
Sta. 124+83 to Sta. 129+14 Lt.	431		144	
Sta. 123+03 to Sta. 130+14 Rt.	710		237	
Sta. 125+78 to Sta. 127+97		54.8		18.3
SUB-TOTAL	1141	55	381	18
TOTAL	1197		399	

HMA SURFACE REM. & REPL.

APPROACH SURFACES	
SN. 078-0003	
SOUTH APPROACH	SQ.YD.
* Sta.125+91.51 to Sta.126+38.14	122.5
NORTH APPROACH	
* Sta.125+91.51 to Sta.126+38.14	122.5
TOTAL	245
DECK SURFACE	
SN. 078-0003	SQ.YD.
* Sta.126+41.51 to Sta.127+53.83	501
TOTAL	501

* All station measurements taken at centerline.

PAVEMENT MIX SPECIFICATION

The following mixture requirements are applicable as replacement for the existing HMA Surface Removal quantity on the bridge approaches.

MIXTURE USE(S):	SURFACE COURSE ($1\frac{1}{2}$")	
AC/PG:	PG 64-22	
RAP% (MAX): **	15% Max	
Design Air Voids:	4.0% @ N=50	
Mixture Composition: (Graduation Mixture)	IL. 9.5 or 12.5	
Friction Aggregate:	Mixture D	

** If RAP option is selected, the asphalt cement grade may need to be adjusted by the Materials Engineer.

BITUMINOUS SHOULDER MIX SPECIFICATION

The following mixture requirements are applicable to this project:

MIXTURE USE(S):	SURFACE LIFT	LOWER LIFTS
AC/PG:	PG 64-22	PG 64-22
RAP% (MAX): **	15% Max	25% Max
Design Air Voids:	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Graduation Mixture)	IL. 9.5 or 12.5	IL 19.0
Friction Aggregate:	Mixture D	N/A

** If RAP option is selected, the asphalt cement grade may need to be adjusted by the Materials Engineer.

PAVEMENT MARKING TAPE & WORKZONE PAVEMENT MARKING REMOVAL

LOCATION STA. TO STA.	PVMT. MRKG. TAPE-4" WHITE (FT.)	PVMT. MRKG. TAPE-4" WHITE (FT.)	WORK ZONE PVMT. MRKG. REM. (SQ.FT.)
STAGE I			
Sta. 125+28 to Sta. 128+72 Lt.		344 (EOP)	115 (EOP)
Sta. 123+68 to Sta. 129+77 Rt.		609 ℄ & Tapers	203 (℄)
STAGE II			
Sta. 124+83 to Sta. 129+14 Lt.	431 (EOP)		144 (EOP)
Sta. 123+03 to Sta. 130+14 Rt.	706 ℄ & Tapers		235 ℄
SUB-TOTAL	1137	953	
TOTAL	2090		698

TEMPORARY TRAFFIC SIGNALS

LOCATION	TRAFFIC SIGNALS
Jobsite Traffic Control	2
TOTAL	2

TRAFFIC CONTROL

LOCATION STA. TO STA.	TEMP. CONC. BARRIER (FT)	RELOC. TEMP. CONC. BARRIER (FT)	IMPACT ATTEN. TEMP. (EACH)	RELOC. IMPACT ATTEN. (EACH)	T.C.&P. STANDARD 701321 (EACH)	WIDTH RESTRICTION SIGNING
Sta. 125+20.3 to Sta. 129+05 LT.	385					
Sta. 124+30 to Sta. 129+95 RT.		565				
Jobsite			2	2	1	2
TOTAL	565		2	2	1	2

SHLDR. REM./ HMA BSE. CSE. WIDENING, 9"

SHOULDER REMOVAL			
LEFT NORTH APPROACH	SQ.YD.	LEFT SOUTH APPROACH	SQ.YD.
Sta.127+54.8 to Sta.129+22	131	Sta.124+84. to Sta.128+95	101
RIGHT NORTH APPROACH		RIGHT SOUTH APPROACH	
Sta.127+84 to Sta.128+95	86	Sta.124+81 to Sta.126+11	145
		TOTAL	463
SHOULDER REPLACEMENT			
LEFT NORTH APPROACH	SQ.YD.	LEFT SOUTH APPROACH	SQ.YD.
Sta.127+54 to Sta.129+96	188	Sta.124+81 to Sta.126+11	268
RIGHT NORTH APPROACH		RIGHT SOUTH APPROACH	
Sta.127+84 to Sta.129+89	160	Sta.123+56 to Sta.126+41	222
		TOTAL	838

SN.078-0003 IL.29
over Senachwine Crk.

NOTE
Additional pay items that may not be included in the SUMQ pertain to the superstructure repair and are designated on the Bridge Office Repair Details, (pages 17-22).

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE 01-14-2008

DRAWN BY CEJ
CHECKED BY

PLOT DATE=$DATE$
FILE NAME=C:\projects\GEN\DRAFT\STDAPLN\SSD\HDI\BRIDGE CONTRACTS\68713 SN078-0003-B085\68713-IL.29over Senachwine Crk.IL.Rev.dgn
PLOT SCALE=$SCALE$
REFERENCE=REF

...\dab00036\b.o.transfile .dgn 3/5/2008 4:33:46 PM

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(20BR)I-1	PUTNAM	25	7
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70

SCHEDULE OF QUANTITIES

EPOXY PAVEMENT MARKING LINE, 4" & PAVEMENT MARKING REMOVAL

LOCATION STA. TO STA.	PVMT. MRKG. LINE, 4"		PVMT. MRKG. REM.	
	WHITE EDGELINE (FT.)	YELLOW SKIP DASH (FT.)	WHITE EDGELINE (SQ.FT.)	YELLOW SKIP DASH (SQ.FT.)
Sta. 132+12 to Sta. 136+98 Lt.	486		162	
Sta. 129+33 to Sta. 135+31 Rt.	598		199	
Sta. 132+65 to Sta. 133+71		26.5		9
SUBTOTAL	1084	26.5	361	9
TOTAL	1111		370	

HMA SURFACE REM. & REPL.

APPROACH SURFACES	
SN. 078-0005	
SOUTH APPROACH	SQ.YD.
* Sta.131+52.6 to Sta.133+02.6	122.5
NORTH APPROACH	
* Sta.133+32.8 to Sta.133+82.8	122.5
TOTAL	245
DECK SURFACE	
SN. 078-0005	SQ.YD.
* Sta.133+02.6 to Sta.133+32.8	138
TOTAL	138

* All station measurements taken at centerline.

PAVEMENT MIX SPECIFICATION

The following mixture requirements are applicable as replacement for the existing HMA Surface Removal quantity on the bridge approaches.

MIXTURE USE(S):	SURFACE COURSE (1½")	
AC/PG:	PG 64-22	
RAP% (MAX): **	15% Max	
Design Air Voids:	4.0% @ N=50	
Mixture Composition: (Graduation Mixture)	IL. 9.5 or 12.5	
Friction Aggregate:	Mixture D	

** If RAP option is selected, the asphalt cement grade may need to be adjusted by the Materials Engineer.

BITUMINOUS SHOULDER MIX SPECIFICATION

The following mixture requirements are applicable to this project:

MIXTURE USE(S):	SURFACE LIFT	LOWER LIFTS
AC/PG:	PG 64-22	PG 64-22
RAP% (MAX): **	15% Max	25% Max
Design Air Voids:	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Graduation Mixture)	IL. 9.5 or 12.5	IL 19.0
Friction Aggregate:	Mixture D	N/A

** If RAP option is selected, the asphalt cement grade may need to be adjusted by the Materials Engineer.

PAVEMENT MARKING TAPE & WORKZONE PAVEMENT MARKING REMOVAL

LOCATION STA. TO STA.	PVMT. MRKG. TAPE-4" WHITE (FT.)	PVMT. MRKG. TAPE-4" WHITE (FT.)	WORK ZONE PVMT. MRKG. REM. (SQ.FT.)
STAGE I			
Sta. 129+33 to Sta. 135+31 Lt.		598 (℄)	199 (℄)
Sta. 130+25 to Sta. 135+25 Lt.		500 (EOP)	167 (EOP)
STAGE II			
Sta. 132+11.6 to Sta. 136+98 Rt.	486 ℄		162 ℄
Sta. 131+15.5 to Sta. 136+06 Rt.	491 (EOP)		164 (EOP)
SUB-TOTAL	977	1098	
TOTAL	2075		692

TEMPORARY TRAFFIC SIGNALS

LOCATION	TRAFFIC SIGNALS
Jobsite Traffic Control	2
TOTAL	2

SHLDR. REM./ HMA BSE. CSE. WIDENING, 9"

SHOULDER REMOVAL			
LEFT NORTH APPROACH	SQ.YD.	LEFT SOUTH APPROACH	SQ.YD.
Sta.131+75.8Lt. to Sta.132+89.8Lt.	164	Sta.133+19.9Lt. to Sta.135+05.9Lt.	278
RIGHT NORTH APPROACH		RIGHT SOUTH APPROACH	
Sta.132+15.5Rt. to Sta.133+15.5Rt.	160	Sta.133+45.7Rt. to Sta.135+33.7Rt.	274
		TOTAL	876
SHOULDER REPLACEMENT			
LEFT NORTH APPROACH	SQ.YD.	LEFT SOUTH APPROACH	SQ.YD.
Sta.130+78.8Lt. to Sta.132+89.8Lt.	88.7	Sta.133+19.9Lt. to Sta.136+76.9Lt.	144.7
RIGHT NORTH APPROACH		RIGHT SOUTH APPROACH	
Sta.130+09.5Rt. to Sta.133+15.5Rt.	80.9	Sta.133+45.7Rt. to Sta.136+97.7Rt.	146.2
		TOTAL	460

TRAFFIC CONTROL

LOCATION STA. TO STA.	TEMP. CONC. BARRIER (FT)	RELOC. TEMP. CONC. BARRIER (FT)	IMPACT ATTEN. TEMP. (EACH)	RELOC. IMPACT ATTEN. (EACH)	T.C.&P. STANDARD 701321 (EACH)	WIDTH RESTRICTION SIGNING
Sta. 130+55 to Sta. 135+55 LT.	500					
Sta. 130+85.5 & Sta. 135+75.7 RT.		491				
Jobsite			2	2	1	2
TOTAL	500		2	2	1	2

SN.078-0005 IL.29
over Dry Hollow Crk.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT. HORIZ.
DATE 01-14-2008
DRAWN BY CEJ
CHECKED BY

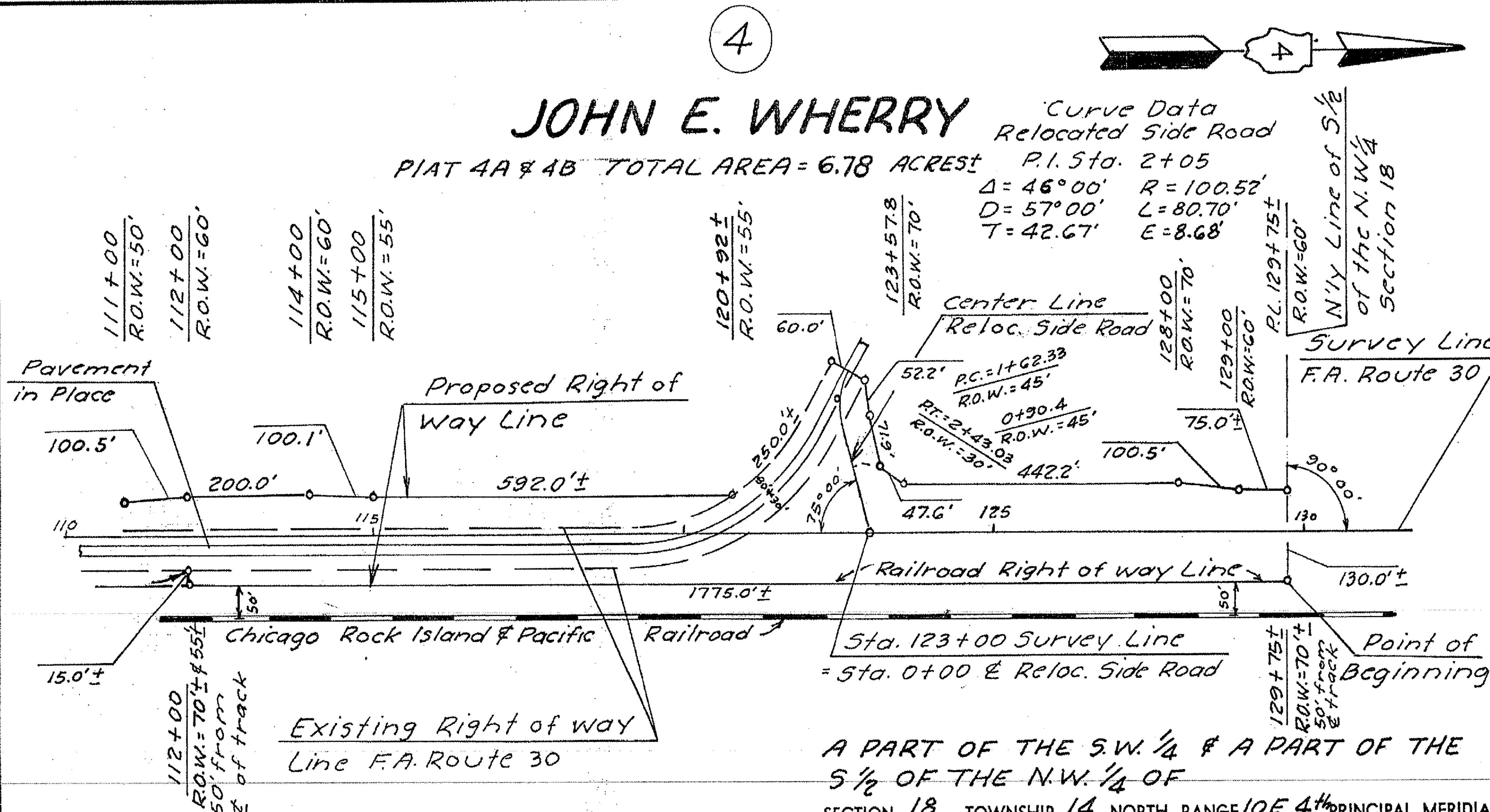
PLOT DATE=$DATE$
FILE NAME=$FILEL$
PLOT SCALE=$SCALE$
REFERENCE=REF

...\dab00036\b.o.transfile .dgn 3/5/2008 4:33:52 PM

CONTRACT NO. 68713

Sheet 8 of 25

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



A PART OF THE S.W. 1/4 & A PART OF THE S 1/2 OF THE N.W. 1/4 OF

SECTION 18, TOWNSHIP 14 NORTH, RANGE 10E 4th PRINCIPAL MERIDIAN

PUTNAM COUNTY

RIGHT OF WAY PLAT

(S.B.I. Route 29) F.A. ROUTE 30 CONSTRUCTION SECTION 21

SCALE: 1" = 200' Jan. 1961

BY	DATE	
H.W.R.	2-21-61	COMPUTED
V.L.T.	4-25-61	CHECKED
H.W.R.	2-21-61	INKED
V.L.T.	4-25-61	INK CHECKED

R.O.W. PLAT — NOTE BOOK Aerial Survey No.

Signed 11·28·61 Recorded 3·19·62 Book 103 Page 433

4B

PLOT DATE = $DATE$ FILE NAME = $FILEL$ PLOT SCALE = $SCALE$ REFERENCE = REF

SN.078-0003, IL.29 over Senachwine Crk.

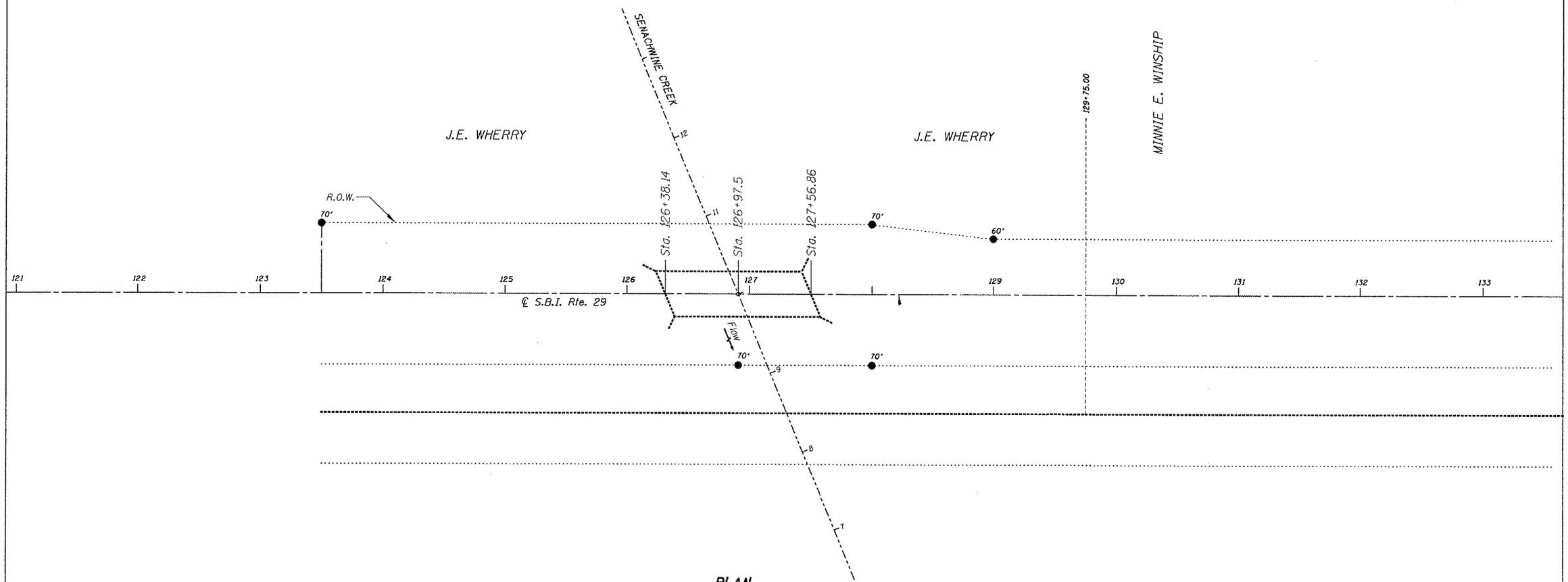
CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-11),(20BR11-1)	PUTNAM	25	9
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50

B.M.-USC&GS T232, disk on top of North abutment of RR. structure.
West of track. Sta. 113+50 Rt. Elev. 473.592
Structure rehabilitated and widened to 43'-2" O. to O. of deck in 1989.

T14N- R10E- 4th P.M.
SEC. 18



PLAN

SN.078-0003, IL.29
over Senachwine Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL LAYOUT

SCALE: VERT.
HORIZ.
DATE 01-30-2008

DRAWN BY CEJ
CHECKED BY

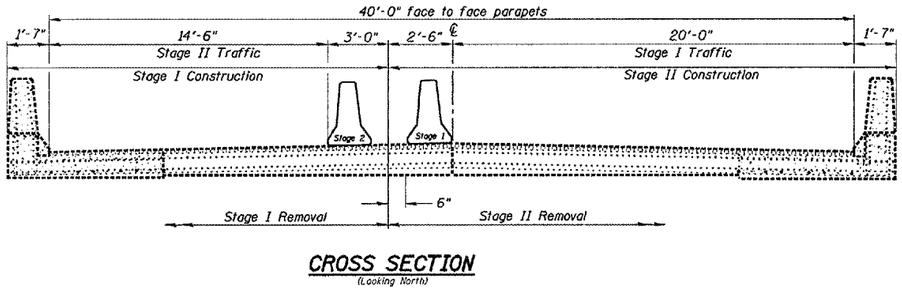
PLOT DATE = $DATE$
FILE NAME = $FILE_NAME$
PLOT SCALE = $SCALE$
REFERENCE = REF

...\dab00036\b.o.transfile .dgn 3/5/2008 4:33:56 PM

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)L,(20BR)1-1	PUTNAM	25	10
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50



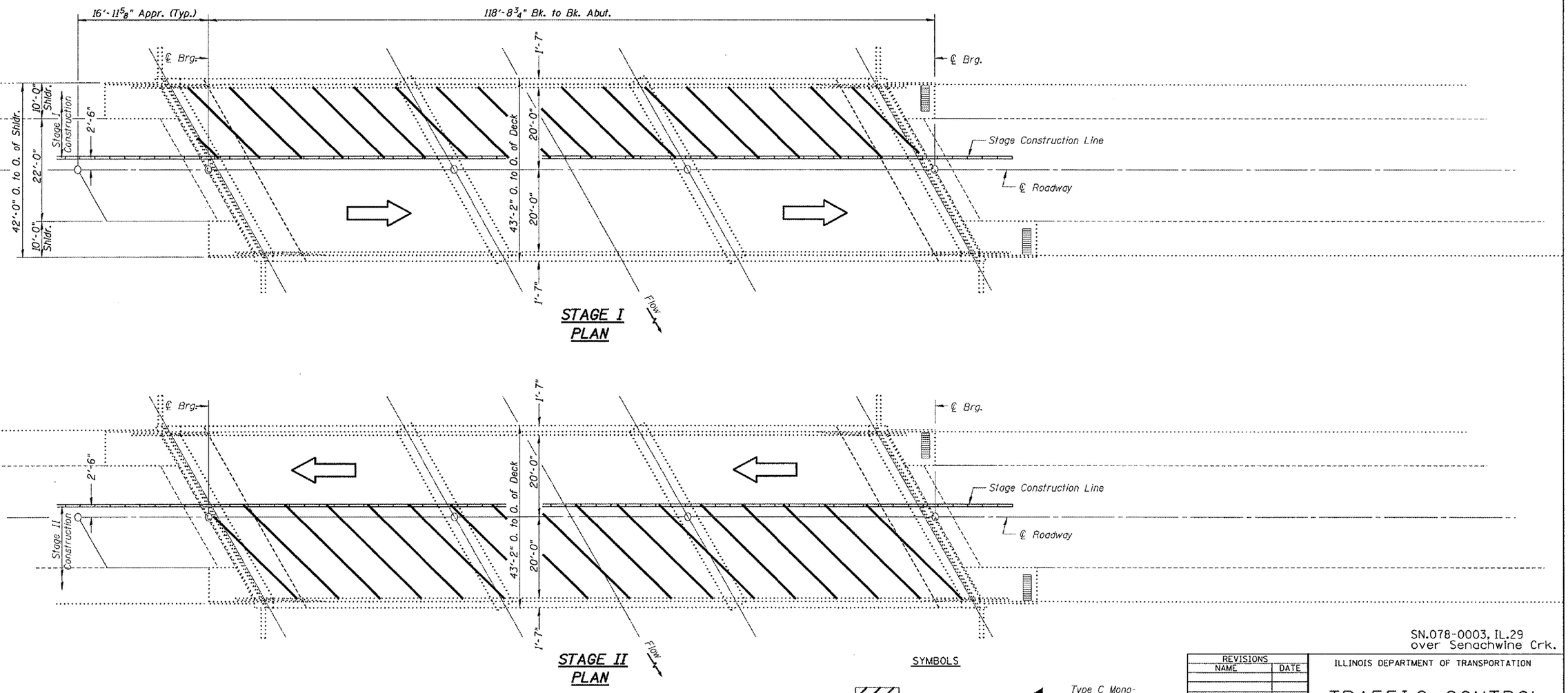
CROSS SECTION
(Looking North)

SN.078-0003 SIGNING

LOCATION	SIGN -A-	SIGN -B-
IL.18/IL.29	2 EA.	NA
I-180/IL.29	1 EA.	
IL.71/IL.29	1 EA.	

CONTRACTOR PROVIDED — MAX. WIDTH 13'-0" X MILES — SIGN -A-

IDOT PROVIDED — IL. 29



NOTES
Refer to Highway Standards 701321/701326 for exact placement of traffic management devices and other clarifications as construction staging symbols and dimensioning were duplicated off of these. Two Changeable Message Signs shall be placed at selected locations for each structure one week in advance of work starting.
See Special Provisions for additional Traffic Control signing details.

SYMBOLS

- Work Area
- Temporary Concrete Barrier
- Type C Mono-directional Reflector
- Temporary Concrete Barrier

SN.078-0003, IL.29
over Senachwine Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL

SCALE: VERT.
HORIZ.
DATE 11-27-2007

DRAWN BY CEJ
CHECKED BY

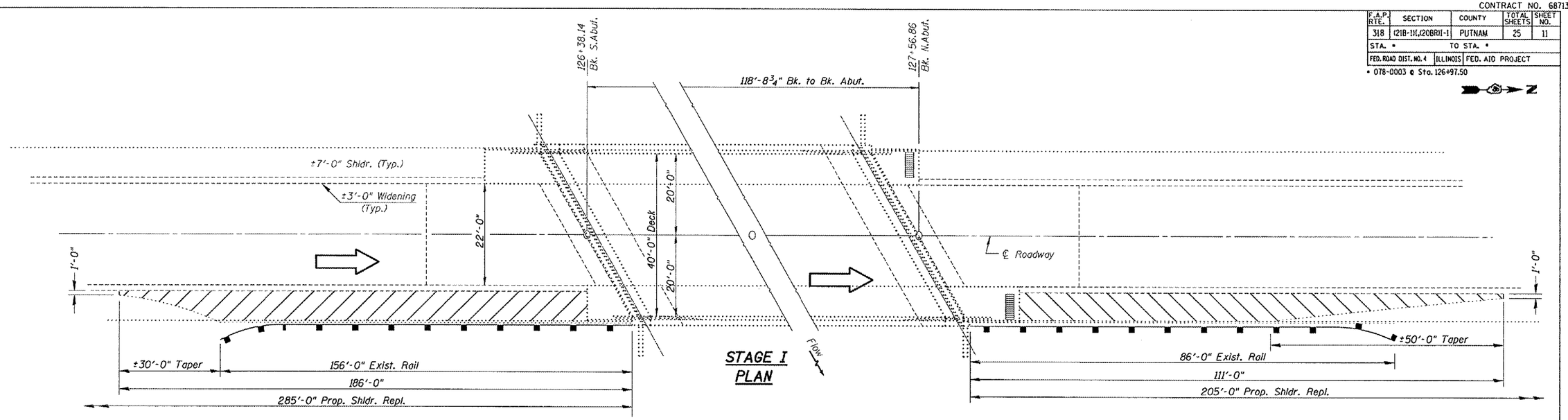
PLOT DATE = #DATE#
FILE NAME = #FILE(S&AGEN\DRAFT\STDAPLNS\SDU4D14\BRIDGE CONTRACTS\68713 SN078-0003-0003\68713-IL.29over SenachwineCrk.ALL.R.dgn
PLOT SCALE = #SCALE#
REFERENCE = #REF#

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(20BRII-1)	PUTNAM	25	11
STA. •	TO STA. •			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

• 078-0003 @ Sta. 126+97.50

N



SYMBOLS

Existing Paved Shoulder

NOTES

Shoulder Removal/Replacement quantities calculated without using existing (±3') pavement widening. Proposed shoulder length & width shall require necessary depth of existing unpaved material to be removed. Cost to be included with HMA Bse. Cse. Widening, 9". Existing bridge approaches shall be milled and replaced for pavement elevation transition ±50' from each end of the deck as measured on ℄.

SN.078-0003, IL.29
over Senachwine Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHOULDER REM. /REPL.

SCALE: VERT.
HORIZ.
DATE 02-14-2008

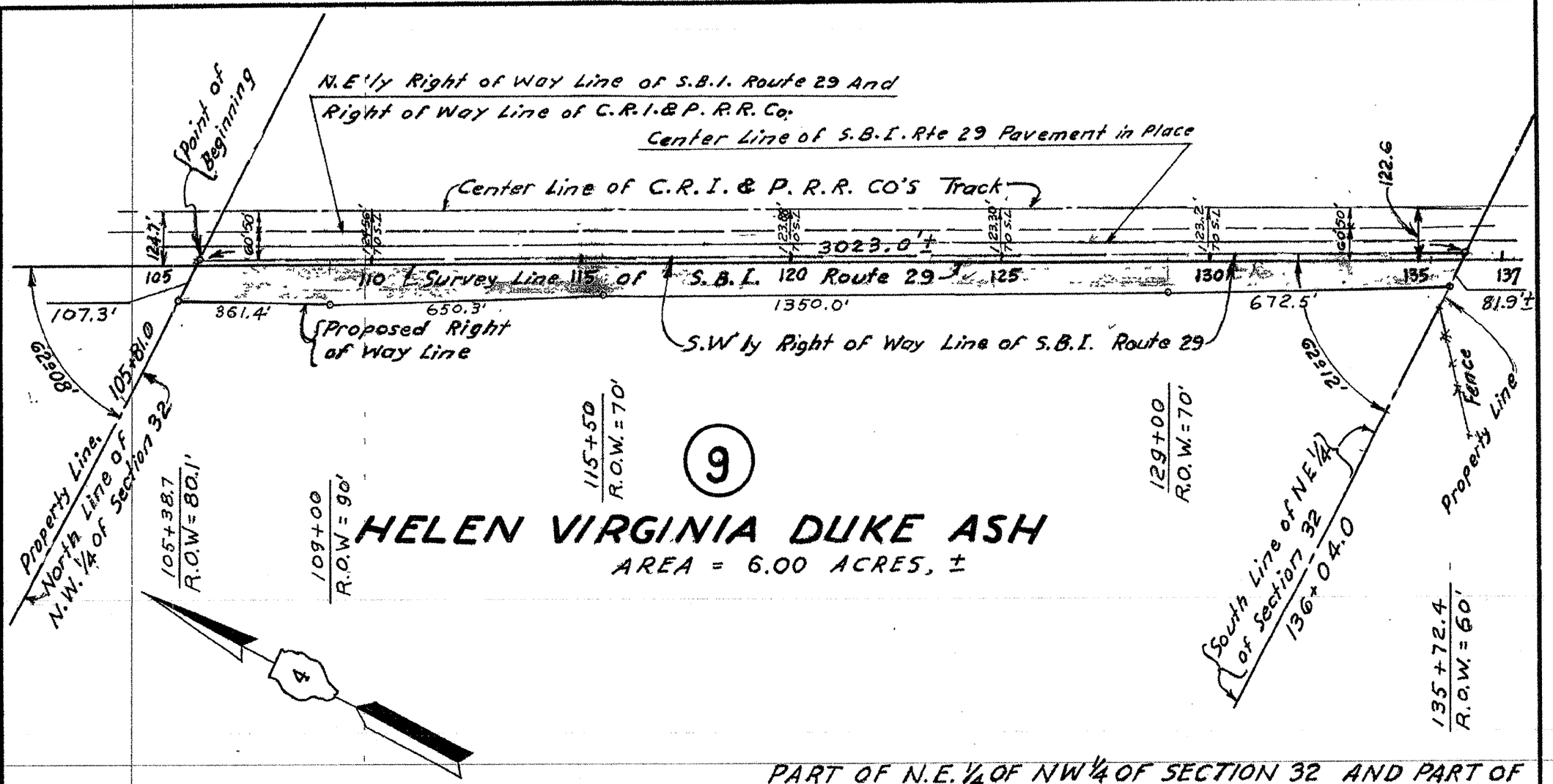
DRAWN BY CEJ
CHECKED BY

PLOT DATE = #DATE#
FILE NAME = #FILE1#\GEN\DRAFT\STDAPLNS\SQUADS\BRIDGE CONTRACTS\68713 SN078-0003-R0805\68713-IL29over SenachwineCrk.AIL.Riv.dgn
PLOT SCALE = #SCALE#
REFERENCE = #REF#

CONTRACT NO. 68713

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

Sheet 12 of 25



PART OF N.E. 1/4 OF NW 1/4 OF SECTION 32 AND PART OF
WEST HALF OF N.E. 1/4 OF SECTION 32, TOWNSHIP 14 NORTH, RANGE 10 E, 4th PRINCIPAL MERIDIAN
PUTNAM COUNTY

RIGHT OF WAY PLAT

S.B.I ROUTE 29 (F.A. ROUTE 30) CONSTRUCTION SECTION 20
SCALE: 1"= 300' JANUARY 1957

Signed 1-13-59 Recorded 4-3-59 Book 103 Page 248

9

R.O.W. PLAT	BY	DATE
NOTE BOOK		
No. 1487		
COMPUTED	H.W.W.	1-6-59
CHECKED	V.L.T.	1-6-59
INKED	A-I.	1-2-57
INK CHECKED	V.L.T.	1-6-59

PLOT DATE = #DATE#
PLOT NAME = #FILENAME#
PLOT SCALE = #SCALE#
REFERENCE = #REF#

SN.078-0005, IL.29
over Dry Hollow Crk

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(208RI)-1	PUTNAM.	25	13
STA. •		TO STA. •		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

• 078-0005 @ Sta. 133+17.70

B.M. - USGS □ Parapet of Bridge
33'Lt. Sta.133+00 - Elev.502.38
Existing Structure- R.C.Thru Girder
Span1 @25'cl. Rdwy. 20.6 FF
Abutment-Closed R.C.

℄ C.R.I. & P. R.R.

Old NE. R.O.W.

50'

Old ℄ S.B.I. Rte. 29

60'

Old SW. R.O.W.

Sta. 133+17.7

122.6'

130

S.B.I. Rte. 29 Survey Line

135

Flow

62° 12'

+81.9'

R.O.W.

R.O.W.

South Line of NE¼ of Section 32
Sta. 136+04.0
Property Line

Fence

129+00
R.O.W.=70'

135+72.4
R.O.W.=60'

137+87.6
R.O.W.=60'

140+00
R.O.W.=60'

SN.078-0005, IL.29
over Dry Hollow Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL LAYOUT

SCALE: 1"=750'
DATE: 12-28-2007

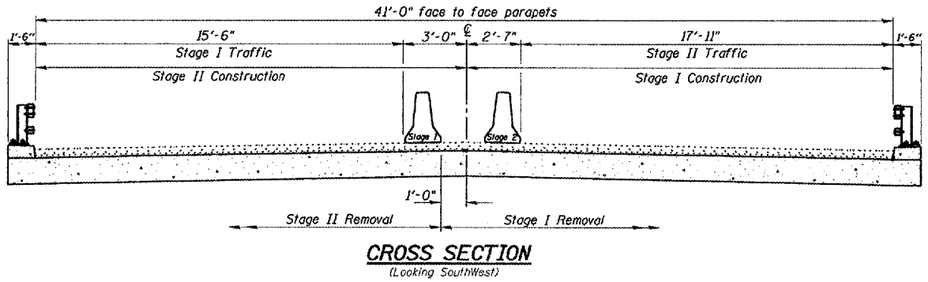
DRAWN BY CEJ
CHECKED BY

PLOT DATE = #DATE#
FILE NAME = #FILENAME#
PLOT SCALE = #SCALE#
REFERENCE = #REF1#

CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(218-1)I,(208R)I-1	PUTNAM	25	14
STA. •	TO STA. •			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

• 078-0005 @ Sta. 133+17.70



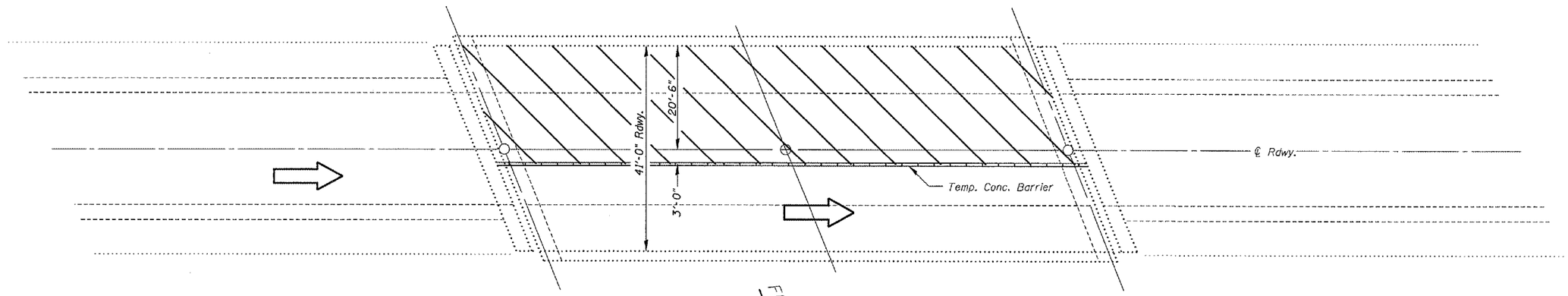
CROSS SECTION
(Looking SouthWest)

SN.078-0005 SIGNING

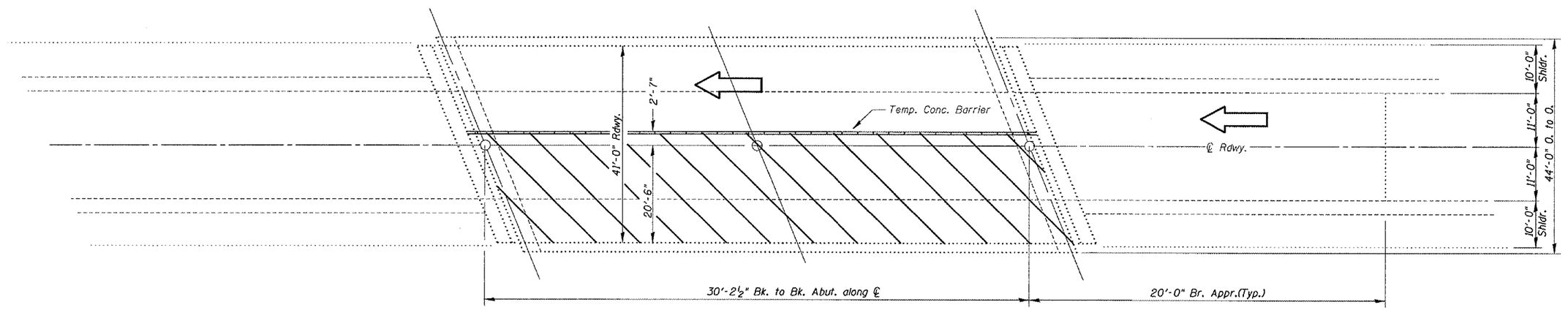
LOCATION	SIGN -A-	SIGN -B-
IL.18/IL.29	2 EA.	NA
I-180/IL.29	1 EA.	
IL.71/IL.29	1 EA.	

CONTRACTOR PROVIDED — MAX. WIDTH 14'-0" X MILES — SIGN -A-

IDOT PROVIDED — IL. 29



STAGE I PLAN



STAGE II PLAN

NOTES
Refer to Highway Standards 701321/701326 for exact placement of traffic management devices and other clarifications as construction staging symbols and dimensioning were duplicated off of these. Two Changeable Message Signs shall be placed at selected locations for each structure one week in advance of work starting.
See Special Provisions for additional Traffic Control signing details.

SYMBOLS

- Work Area
- Temporary Concrete Barrier
- Type C Mono-directional Reflector
- Temporary Concrete Barrier

SN.078-0005, IL.29 over Dry Hollow Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL

SCALE: VERT.
HORIZ.
DATE 12-20-2007

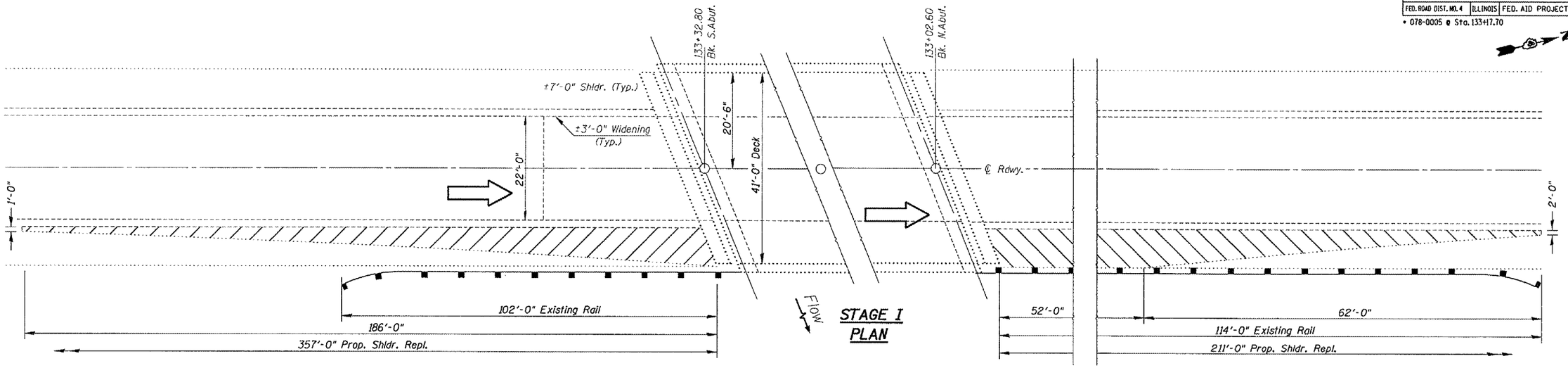
DRAWN BY CEJ
CHECKED BY

PLOT DATE = $DATE$
FILE NAME = $FILEL$\VGEN\DRAFTS\STDAPLNS\SDJADD14\BRIDGE CONTRACTS\68713 SN078-0003-0005\68713-IL.29over SenachwineCrk.&IL.Rte.Tr-to.dgn
PLOT SCALE = $SCALE$
REFERENCE = REF

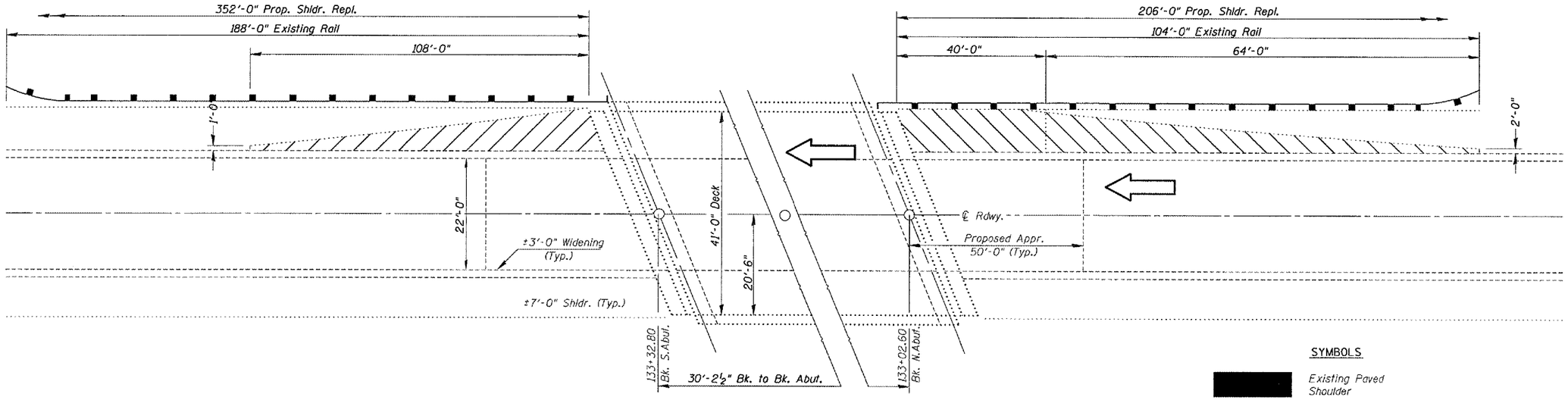
CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-11)I,(20BRI-1	PUTNAM	25	15
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0005 @ Sta. 133+17.70



STAGE I PLAN



STAGE II PLAN

SYMBOLS

Existing Paved Shoulder

NOTES

Shoulder Removal/Replacement quantities calculated without using existing (±3') pavement widening. Proposed shoulder length & width shall require necessary depth of existing unpaved material to be removed. Cost to be included with HMA Bse. Cse. Widening, 9". Existing bridge approaches shall be milled and replaced for pavement elevation transition ±50' from each end of the deck as measured on ℄.

SN.078-0005, IL.29 over Dry Hollow Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHOULDER REM. /REPL.

SCALE: VERT.
HORIZ.
DATE 02-14-2008

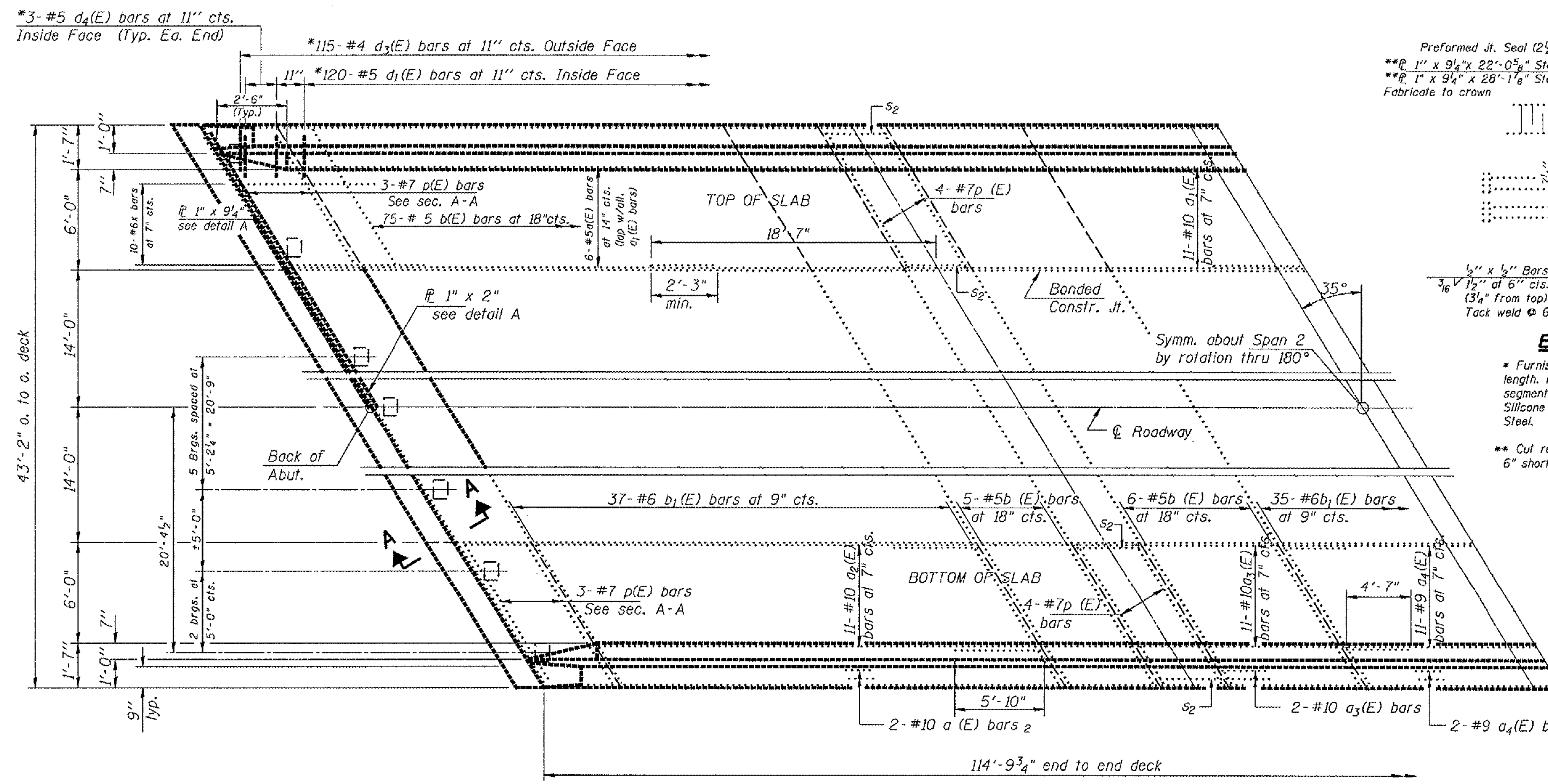
DRAWN BY CEJ
CHECKED BY

PLOT DATE = $DATE$
FILE NAME = $FILEDIA$\GEN\GRAFT\STDAPLNS\SQUAD1\BRIDGE CONTRACTS\68713 SN078-0003-0005\68713-IL29over SandshrinkCrk.A3L.Rev.1-1b.dgn
PLOT SCALE = $SCALE$
REFERENCE = REF

CONTRACT NO. 68713

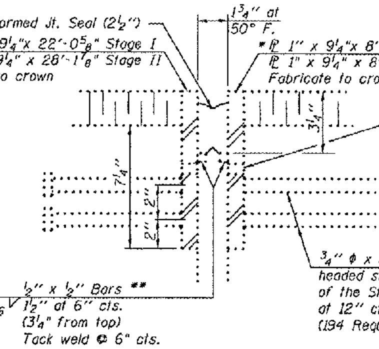
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(20BRI)-I	PUTNAM	25	16
STA. •		TO STA. •		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

• 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70



* Order a(E) and a_1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

HALF PLAN

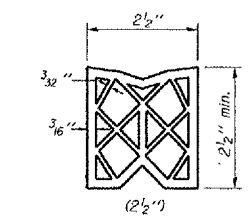


EXISTING DETAIL A

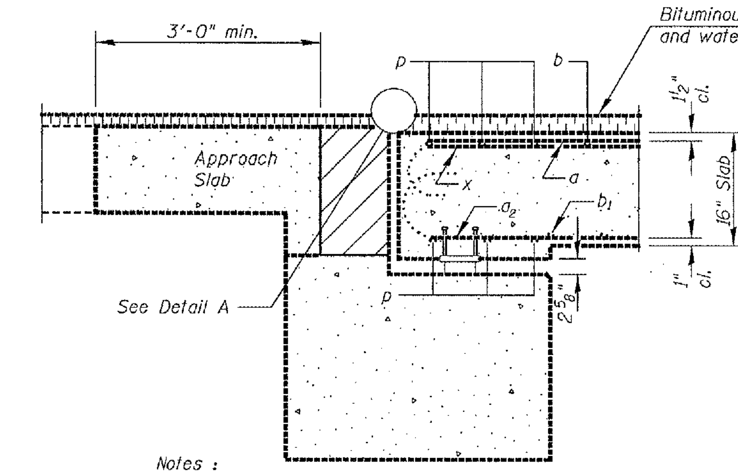
* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.

** Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.

Notes :
All surfaces of steel plates shall be given one shop coat of paint specified for Structural Steel.

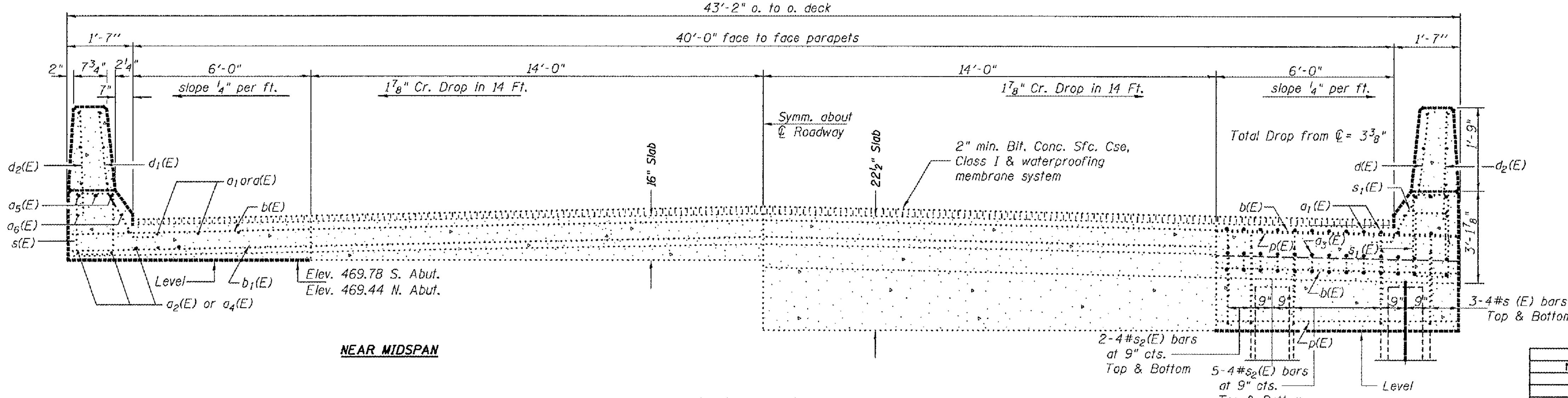


PREFORMED JOINT SEAL



Notes :
All horizontal dimensions are at right angles to beam ends.
Hatched area to be poured after beams are in place.

SECTION A-A



CROSS SECTION

(Looking North)

FOR INFORMATION ONLY

SN.078-0003, IL.29
over Senachwine Crk.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING SUPERSTRUCTURE DETAILS

SCALE: VERT. HORIZ.
DATE 11-13-2007
DRAWN BY CEJ
CHECKED BY

PLOT DATE : #DATE#
FILE NAME : #FILES#
PLOT SCALE : #SCALE#
REFERENCE : #REF#

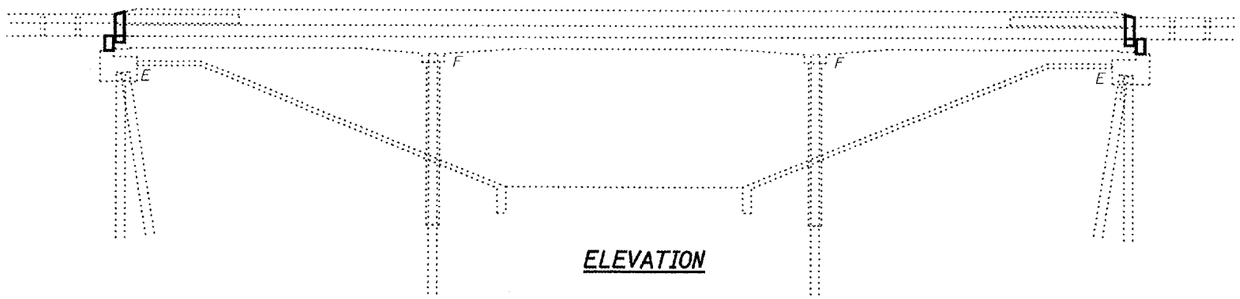
\dgb00036\b_o_transfile.dgn 3/5/2008 4:33:26 PM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

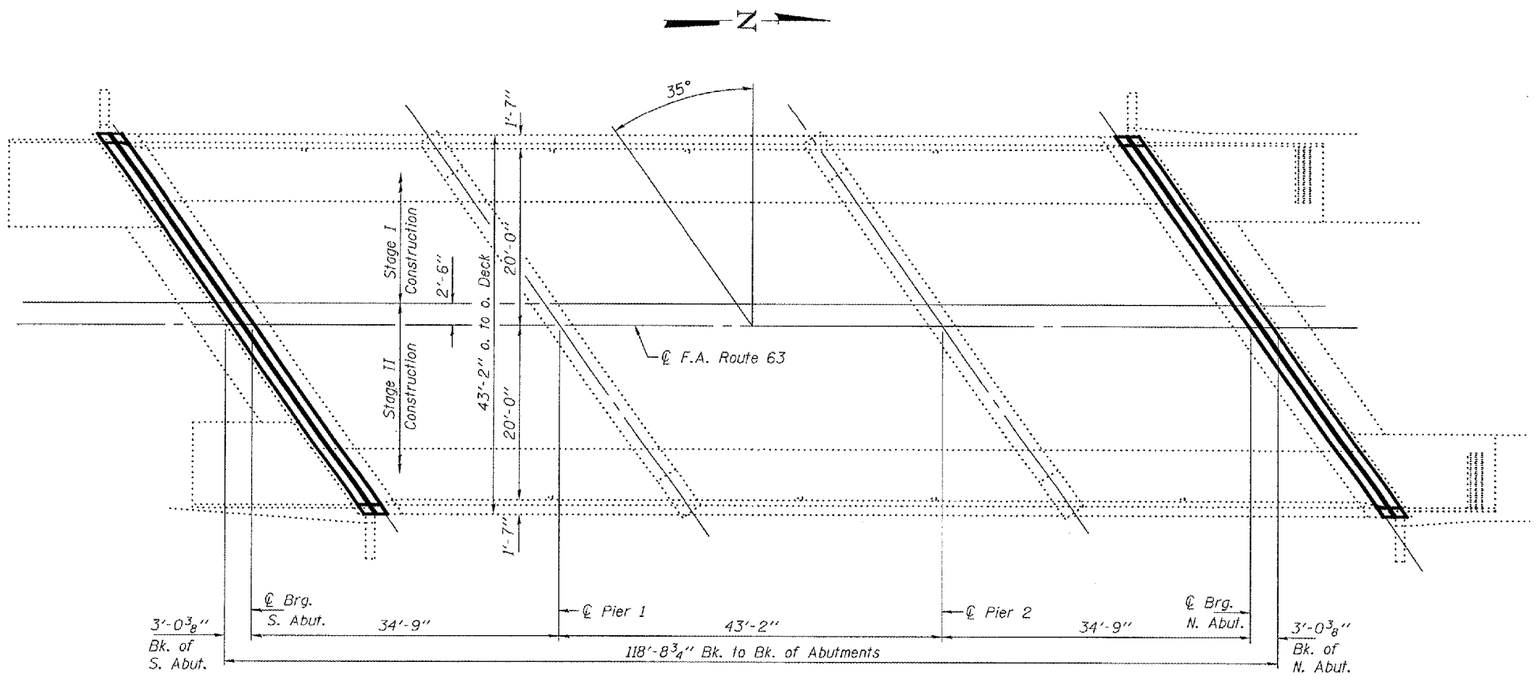
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 63		PUTNAM	25	17
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
6 SHEETS

Contract Number: 68713



ELEVATION



PLAN

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

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

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	11.0
Concrete Superstructure	Cu. Yd.	11.0
Preformed Joint Strip Seal	Foot	107
Protective Coat	Sq. Yd.	24.7
Reinforcement Bars, Epoxy Coated	Pound	830
Bar Splicers	Each	8
HMA Surface Removal (Deck)	Sq. Yd.	501
Bridge Deck Grooving	Sq. Yd.	476
Bridge Deck Hydro-Scarification 1/2"	Sq. Yd.	501
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	501

DESIGNED	Adrian T. Holloway
CHECKED	
DRAWN	Steffen
CHECKED	ATH AJB

MARCH 5, 2008

EXAMINED _____ ENGINEER OF STRUCTURAL SERVICES

PASSED _____ ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
RALPH E. ANDERSON
081-004625
SPRINGFIELD
LICENSED STRUCTURAL ENGINEER

Expires: November 30, 2008

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi

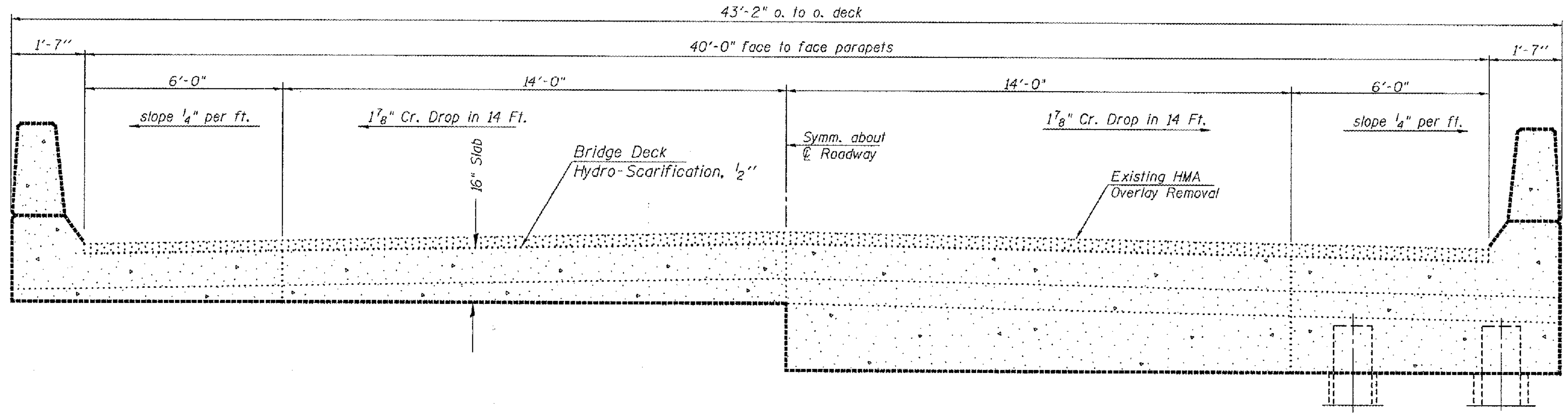
fy = 60,000 psi (Reinforcement)

PLAN AND ELEVATION
F.A. ROUTE 63 OVER
SENACHWINE CREEK
PUTNAM COUNTY
SN 078-0003

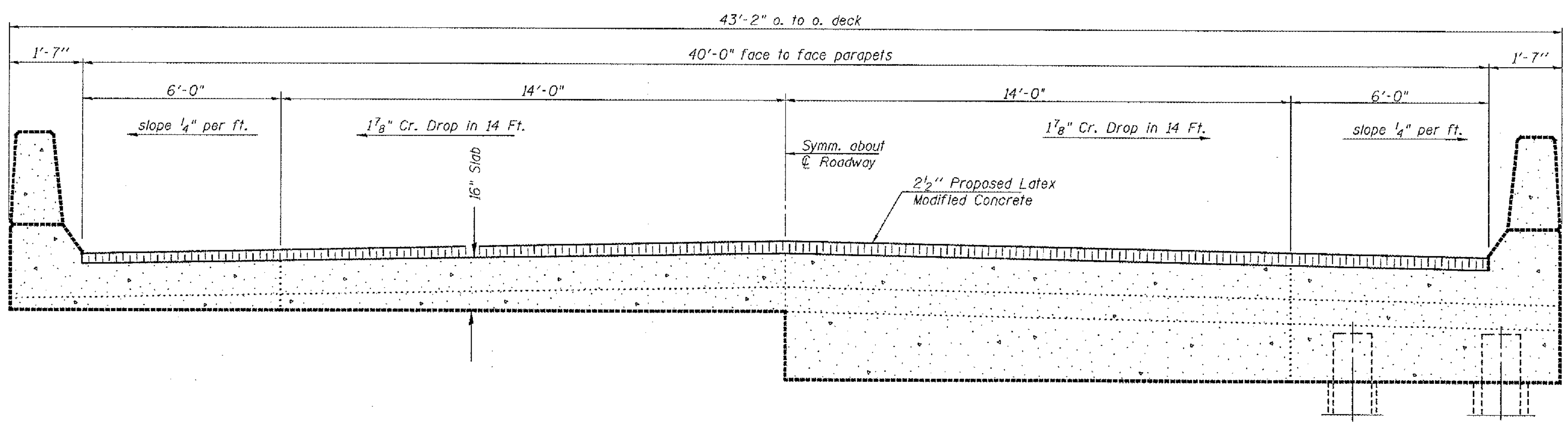
CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(218-1)I,(20BR)I-1	PUTNAM	25	18
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70



EXISTING CROSS SECTION



PROPOSED CROSS SECTION

SN.078-0003, IL.29
over Senachwine Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

SCALE: VERT. HORIZ.
DATE 11-13-2007
DRAWN BY CEJ
CHECKED BY

PLOT DATE = $DATE$
FILE NAME = $FILEL:S:\GEN\DRAFT\STD&PLNS\SQUAD14\BRIDGE CONTRACTS\68713 SN078-0003-0005\68713-IL.29over SenachwineCrk.&IL.Riv.dgn
PLOT SCALE = $SCALE$
REFERENCE = REF

...\dab00036\b.o.transfile .dgn 3/7/2008 11:02:05 AM

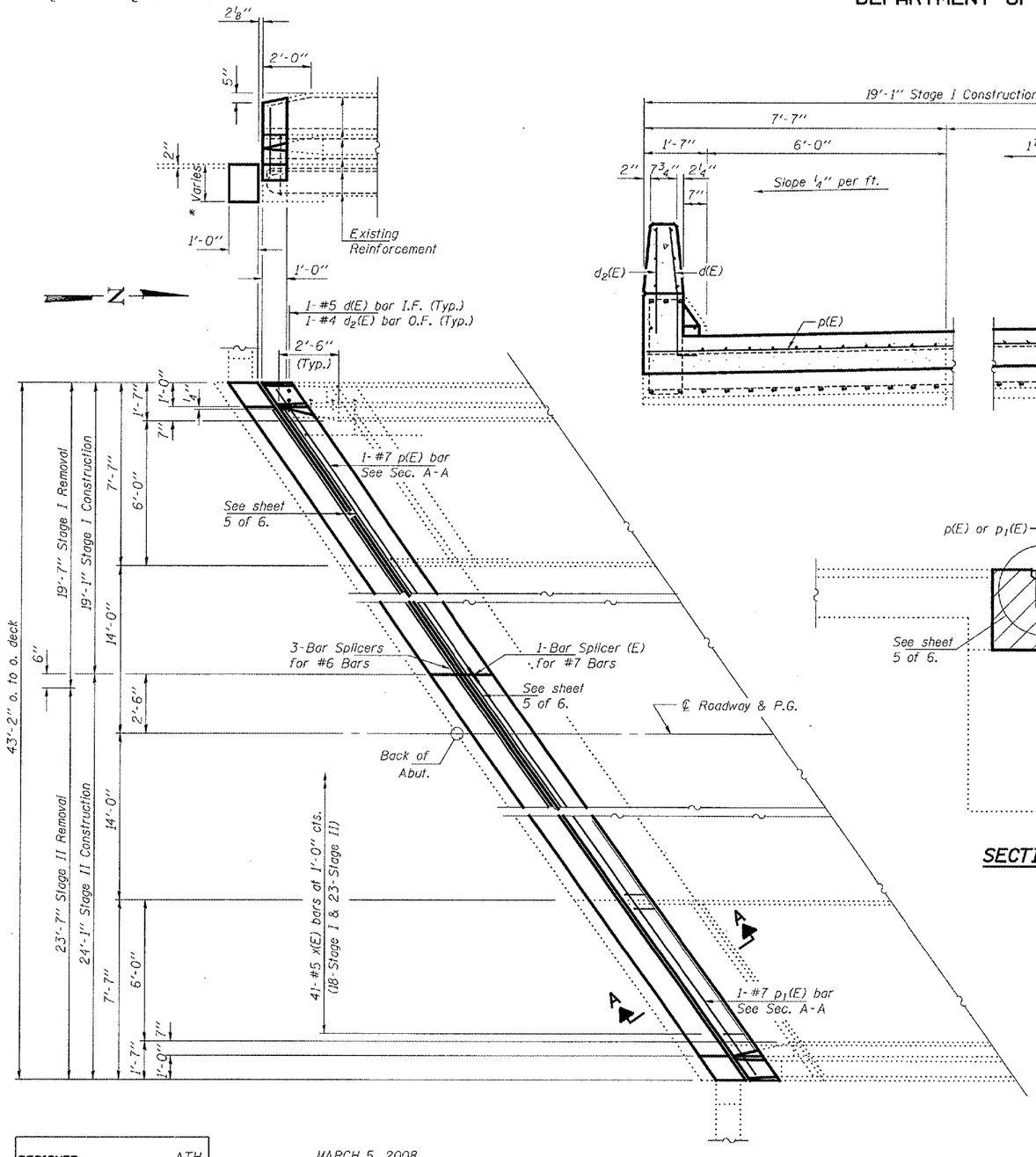
* Varies from:
±1'-6 5/8" to ±1'-10 5/8" (S. Abut.)
±1'-6 1/2" to ±1'-10 1/2" (N. Abut.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

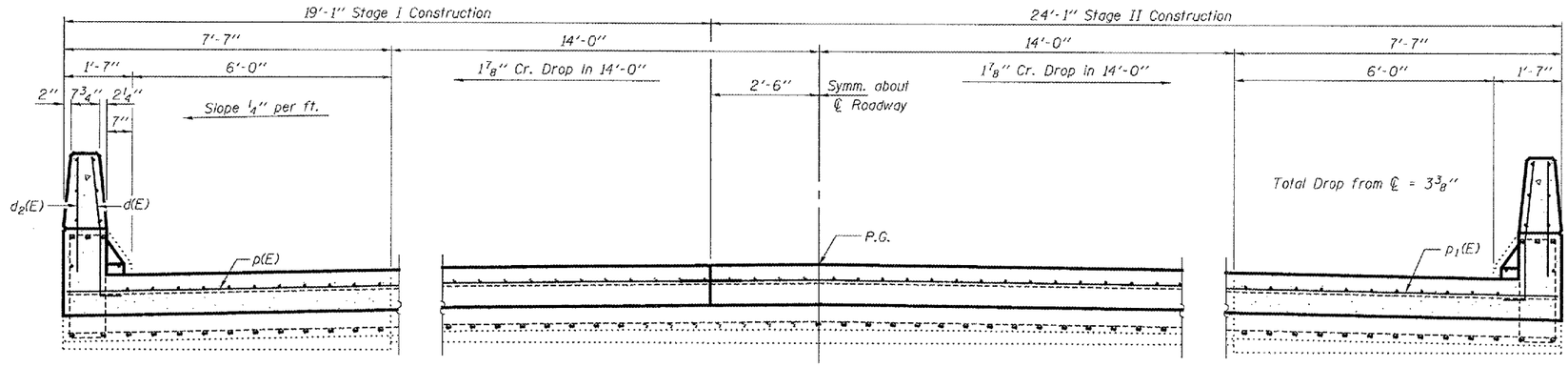
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 63		PUTNAM	25	19
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT -	

SHEET NO. 3
6 SHEETS

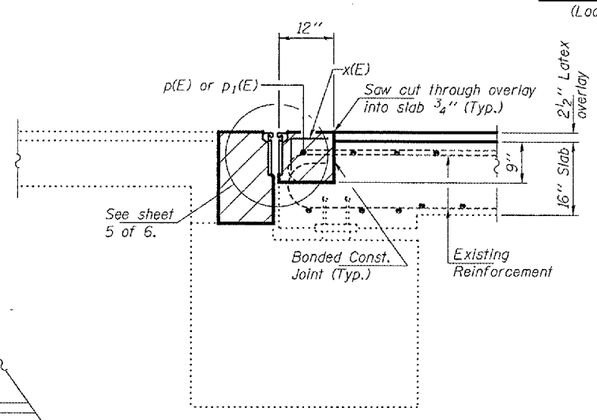
Contract Number: 68713



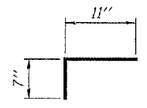
SECTION A-A



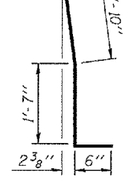
CROSS SECTION
(Looking North)



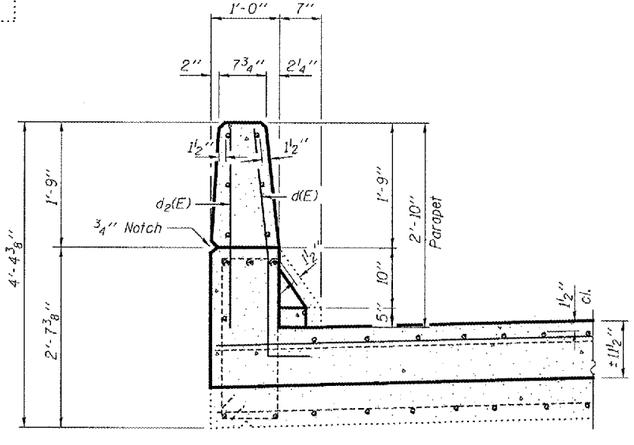
Note:
Hatched areas indicate Concrete Removal and Concrete Superstructure.



BAR x(E)



BAR d(E)



SECTION THRU PARAPET

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	4	#5	3'-11"	L
d2(E)	4	#4	3'-0"	—
h(E)	6	#6	23'-0"	—
h1(E)	6	#6	29'-1"	—
p(E)	2	#7	23'-0"	—
p1(E)	2	#7	29'-1"	—
x(E)	82	#5	1'-6"	⌐
Concrete Removal			Cu. Yd.	11.0
Concrete Superstructure			Cu. Yd.	11.0
Reinforcement Bars, Epoxy Coated			Pound	830

PARTIAL PLAN AT SOUTH ABUTMENT
North Abutment similar by rotation thru 180°

DESIGNED	ATH
CHECKED	AJB
DRAWN	Steffen
CHECKED	ATH AJB

MARCH 5, 2008
EXAMINED — ENGINEER OF STRUCTURAL SERVICES
PASSED — ENGINEER OF BRIDGES AND STRUCTURES

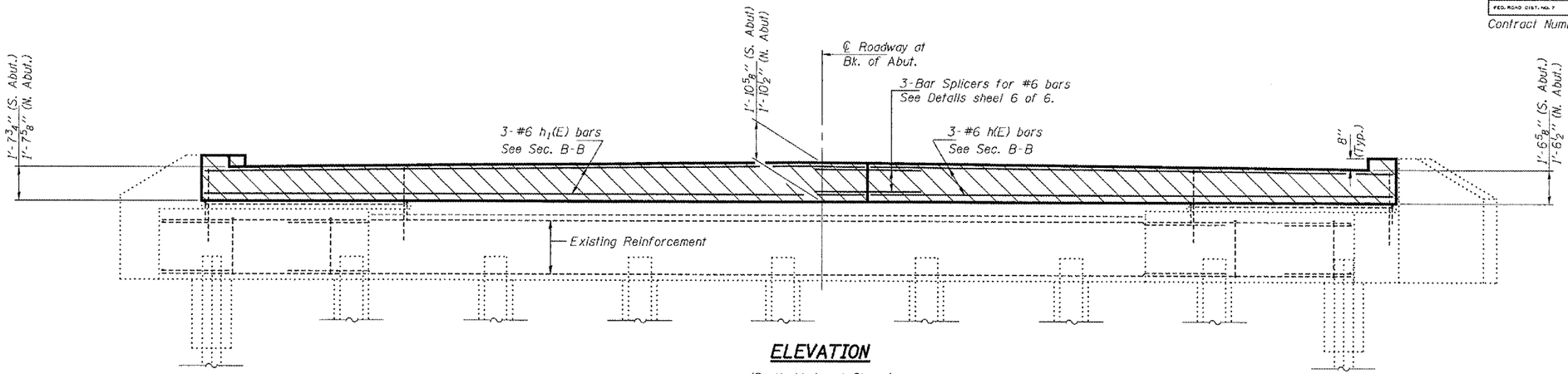
REPAIR DETAILS
F.A. ROUTE 63 OVER SENACHWINE CREEK
PUTNAM COUNTY
SN 078-0003

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 63		PUTNAM	25	20
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

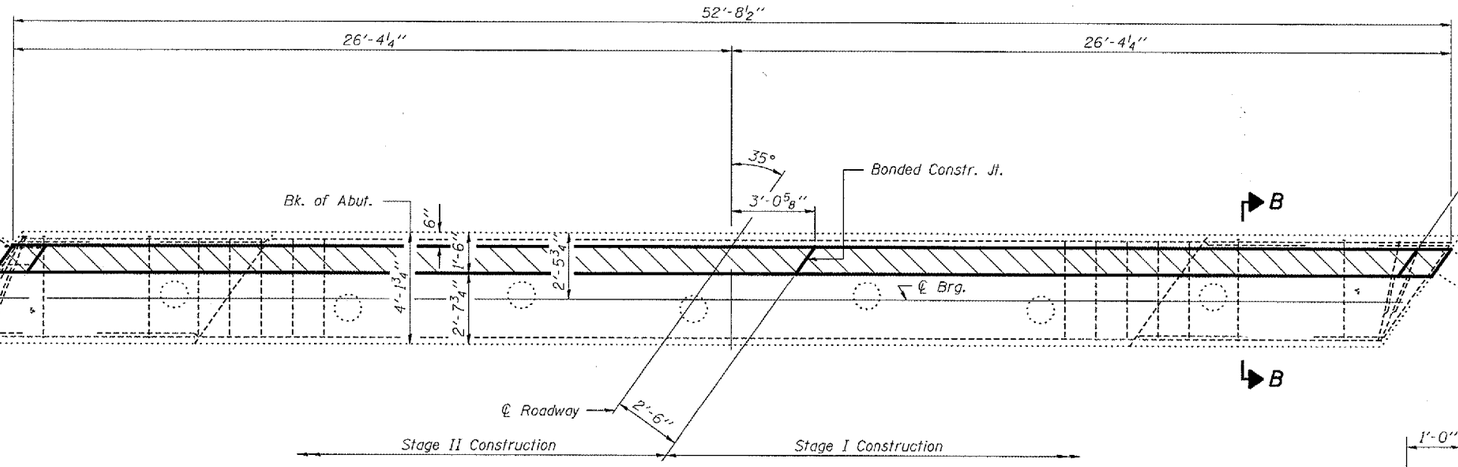
SHEET NO. 4
6 SHEETS

Contract Number: 68713



ELEVATION

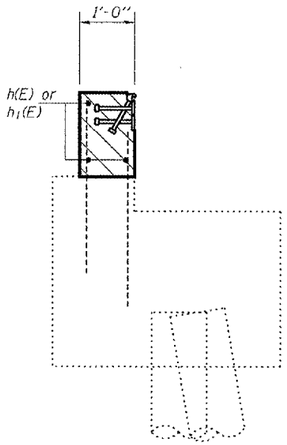
(South Abutment Shown)
North Abutment Similar by 180° Rotation



PLAN

(South Abutment Shown)
North Abutment Similar by 180° Rotation

Note:
Hatched areas indicate Concrete Removal and Concrete Superstructure.



SECTION B-B

DESIGNED	ATH
CHECKED	AJB
DRAWN	Steffen
CHECKED	ATH AJB

MARCH 5, 2008
EXAMINED — ENGINEER OF STRUCTURAL SERVICES
PASSED — ENGINEER OF BRIDGES AND STRUCTURES

REPAIR DETAILS F.A. ROUTE 63 OVER SENACHWINE CREEK PUTNAM COUNTY SN 078-0003

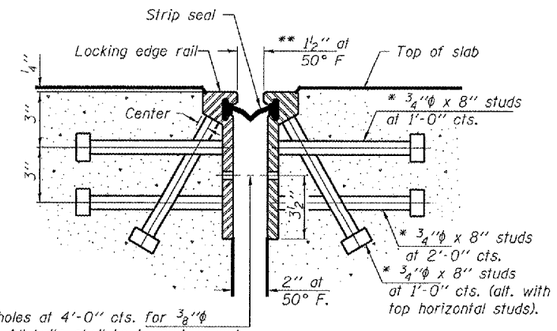
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.
** When joint is fixed, dimension is set at 1½".

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

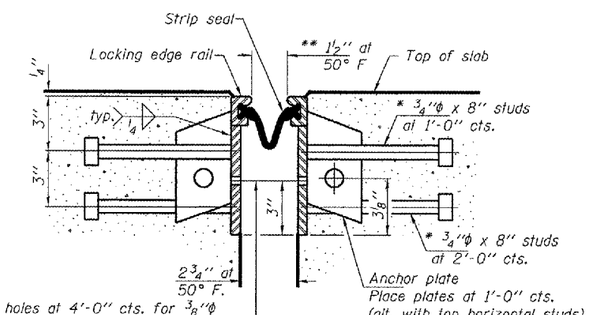
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 63		PUTNAM	25	21
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 5
6 SHEETS

Contract Number: 68713



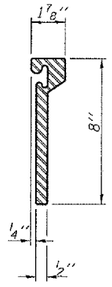
7/16"ϕ holes at 4'-0" cts. for ⅜"ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

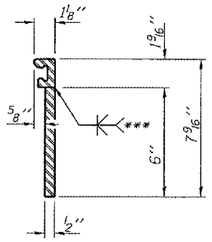


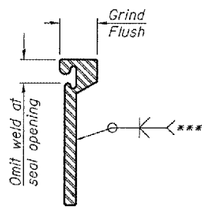
7/16"ϕ holes at 4'-0" cts. for ⅜"ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
The manufacturer's recommended installation methods shall be followed.
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

SECTION THRU ROLLED RAIL JOINT

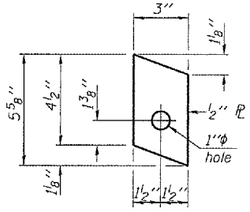




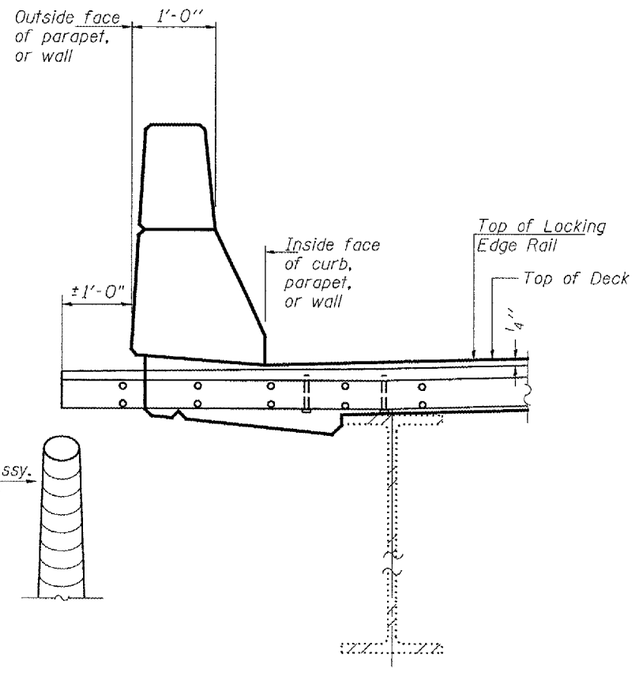


*** Back gouge not required if complete joint penetration is verified by mock-up.

SECTION THRU WELDED RAIL JOINT



ANCHOR PL
(for welded rail)



AT CURB, PARAPET, OR WALL

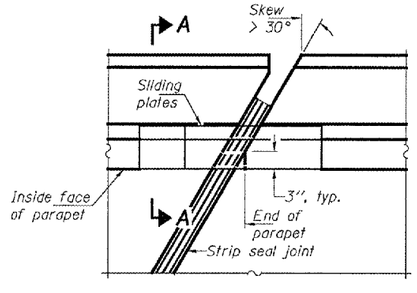
ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS



PLAN

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	107

DESIGNED	ATH
CHECKED	AJB
DRAWN	Steffen
CHECKED	ATH AJB

MARCH 5, 2008
EXAMINED A. Carl Peery ENGINEER OF STRUCTURAL SERVICES
PASSED Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

EJ-SSJ 9-3-07

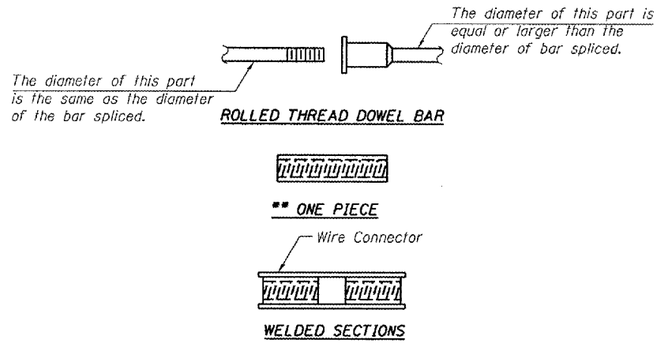
PREFORMED JOINT STRIP SEAL
F.A. ROUTE 63 OVER SENACHWINE CREEK
PUTNAM COUNTY
SN 078-0003

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 63		PUTNAM	25	22
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

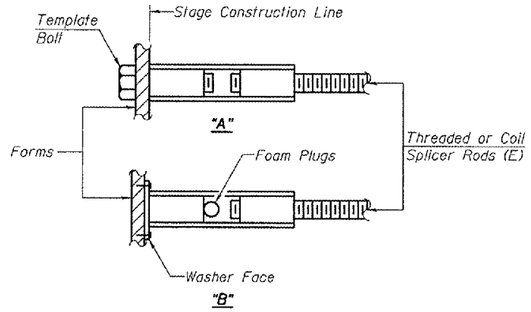
SHEET NO. 6
6 SHEETS

Contract Number: 68713



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.

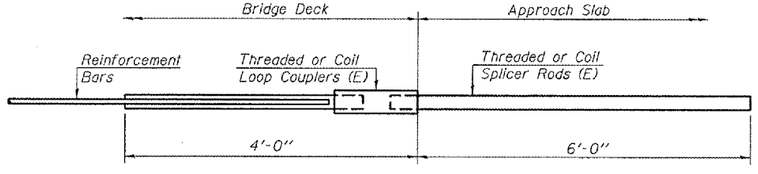
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

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

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

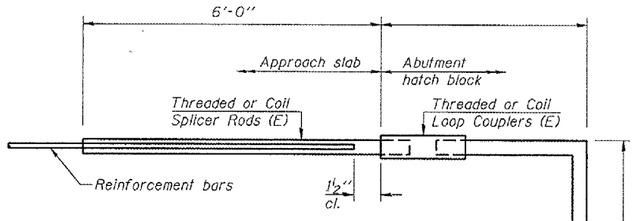
Where f_y = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

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



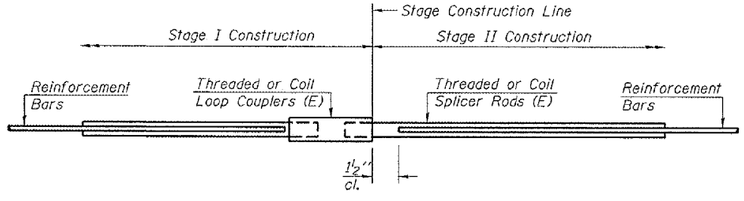
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



FOR STUB ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#6	6	Abutments
#7	2	Slab

DESIGNED	ATH
CHECKED	AJB
DRAWN	Steffen
CHECKED	ATH AJB

MARCH 5, 2008
EXAMINED — ENGINEER OF STRUCTURAL SERVICES
PASSED — ENGINEER OF BRIDGES AND STRUCTURES

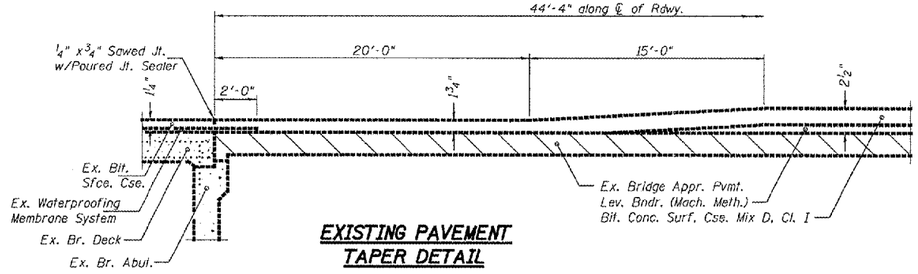
BSD-1 11-1-06

BAR SPLICER ASSEMBLY DETAILS
F.A. ROUTE 63 OVER SENACHWINE CREEK
PUTNAM COUNTY
SN 078-0003

CONTRACT NO. 68713

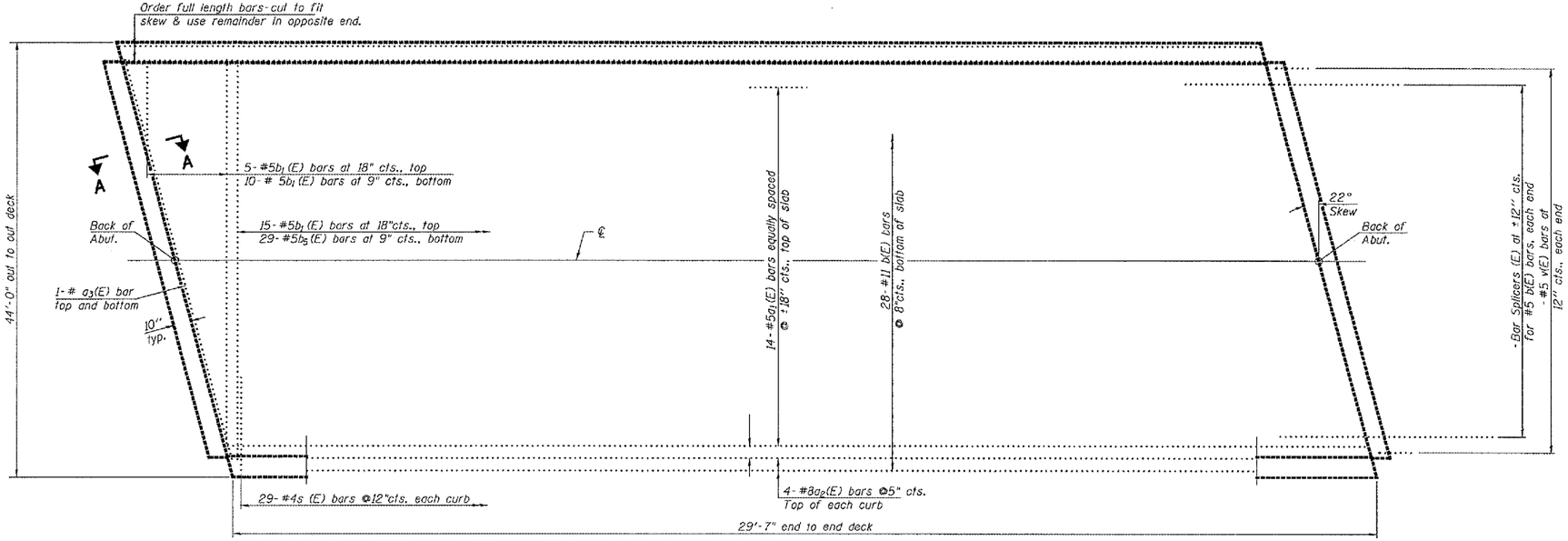
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(20BR)I-1	PUTNAM	25	23
STA. *		TO STA. *		
FED. ROAD DIST. NO. 44	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70

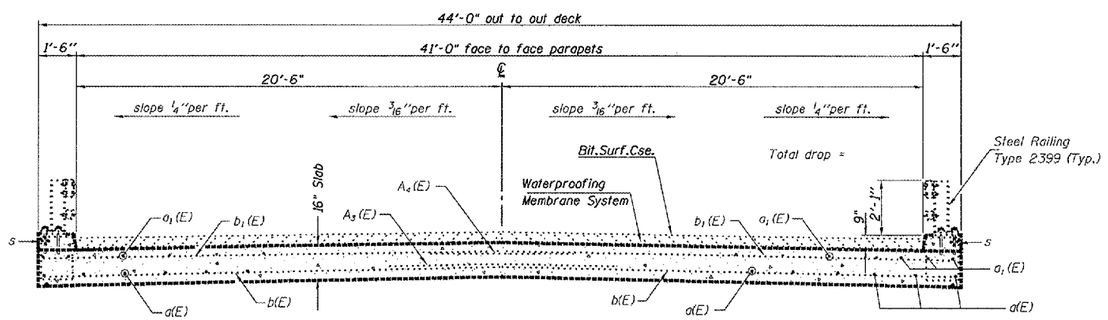


EXISTING PAVEMENT TAPER DETAIL

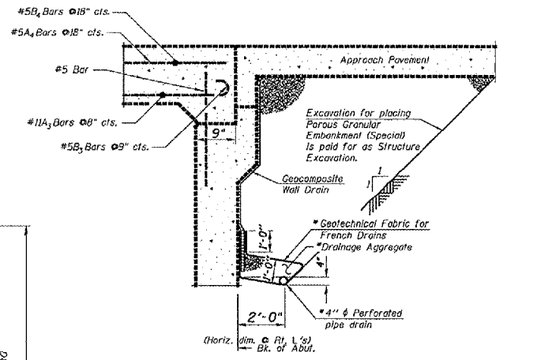
* Order a(E) and a_1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.



PLAN



CROSS SECTION



SECTION THRU INTEGRAL ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

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

FOR INFORMATION ONLY

SN.078-0005, IL.29
over Dry Hollow Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING SUPERSTRUCTURE DETAILS

SCALE: VERT.
HORIZ.
DATE 12-14-2007

DRAWN BY CEJ
CHECKED BY

PLOT DATE = #DATE#
FILE NAME = #FILEL&R\DGN\DRAFTS\STD&PLNS\SQUADIA\BRIDGE CONTRACTS\68713 SN078-0023-0085\68713-IL29over Sanachuene Crk.&IL.Riv.Trib.dgn
PLOT SCALE = #SCALE#
REFERENCE = #REF#

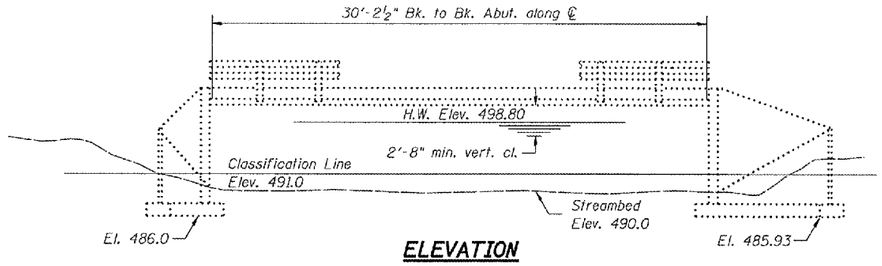
\deb00036\h_o_transfile.dgn 3/5/2008 4:33:30 PM

CONTRACT NO. 68713

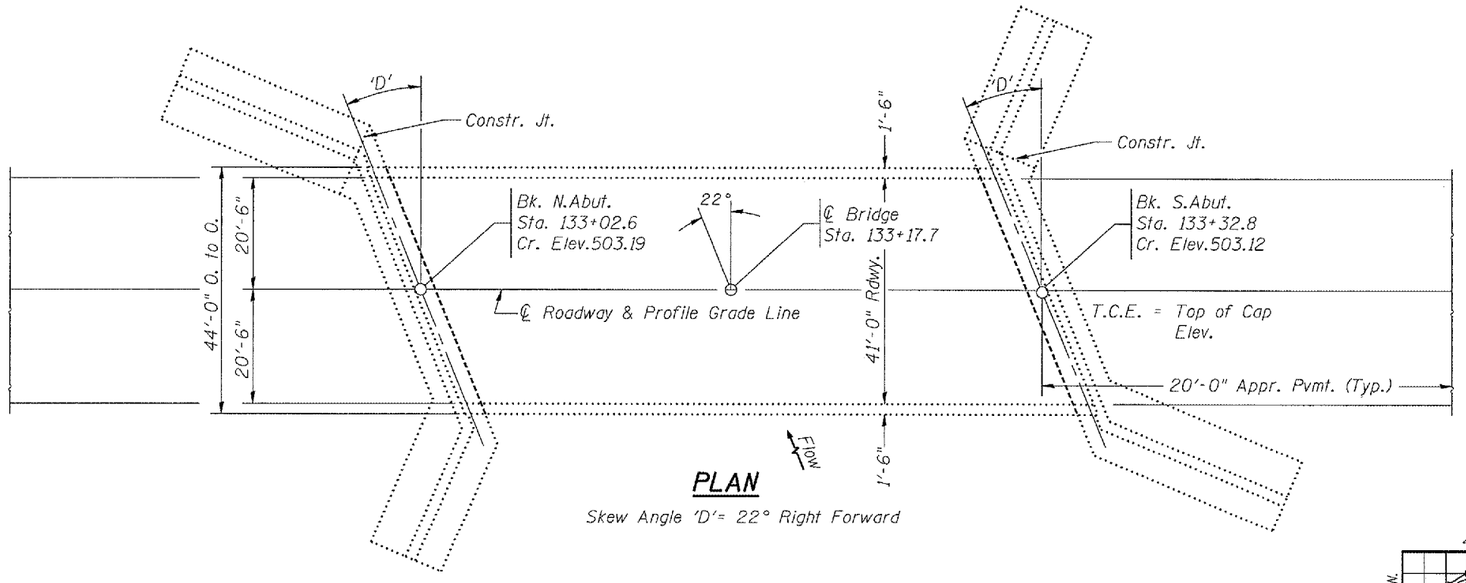
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)I,(20BRI-1)	PUTNAM	25	24
STA. *	TO STA. *			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0005 @ Sta. 133+17.70

B.M.- USGS □ Parapet of Bridge
33'Lt. Sta.133+00 - Elev.502.38
Existing Structure- R.C.Thru Girder
Span1 @25'ct. Rdwy. 20.6 FF
Abutment-Closed R.C.



ELEVATION



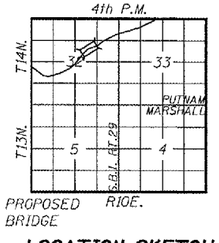
PLAN

Skew Angle 'D'= 22° Right Forward

STATION 133+17.7
DRY HOLLOW CREEK
SEC. 20BR BUILT 1960
ROAD DIST. 4
PUTNAM COUNTY
LOADING HS20
STR. NO. 078-0005

LETTERING FOR NAME PLATE

Locate Name Plate at
Corner of Bridge (See Std. CN)



LOCATION SKETCH

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation or a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

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

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The new deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Hot-Mix Asphalt Removal (Deck)	Sq.Yd.	138
Bridge Deck Grooving	Sq.Yd.	128
Raised Reflective Pvmt. Marker Rem.	Each	4
Bridge Deck Latex Concrete Overlay	Sq.Yd.	138
Bridge Deck Hydro-Scarification ½"	Sq.Yd.	138

SN.078-0005, IL.29
over Dry Hollow Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION

SCALE: VERT.
HORIZ.
DATE 12-20-2007

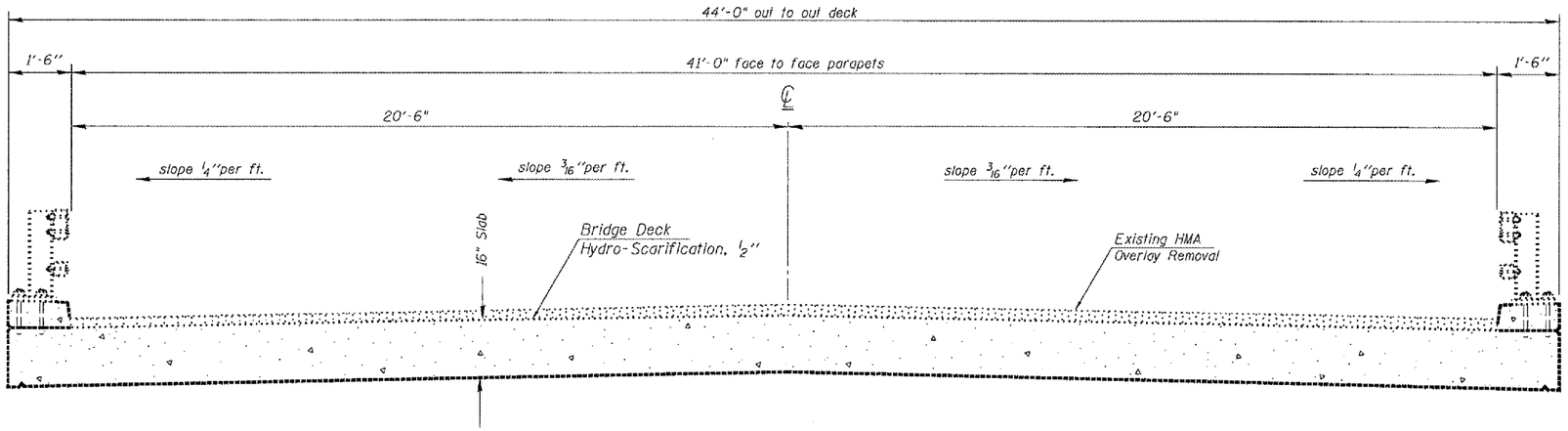
DRAWN BY CEJ
CHECKED BY

PLOT DATE = $DATE$
FILE NAME = $FILE:S:\DGN\DRAFT\STDAPLNS\SQUAD14\BRIDGE CONTRACTS\68713 SN078-0003-0005\68713-IL.29over SanachwineCrk.&IL.Rte.1rib.dgn
PLOT SCALE = $SCALE$
REFERENCE = REF

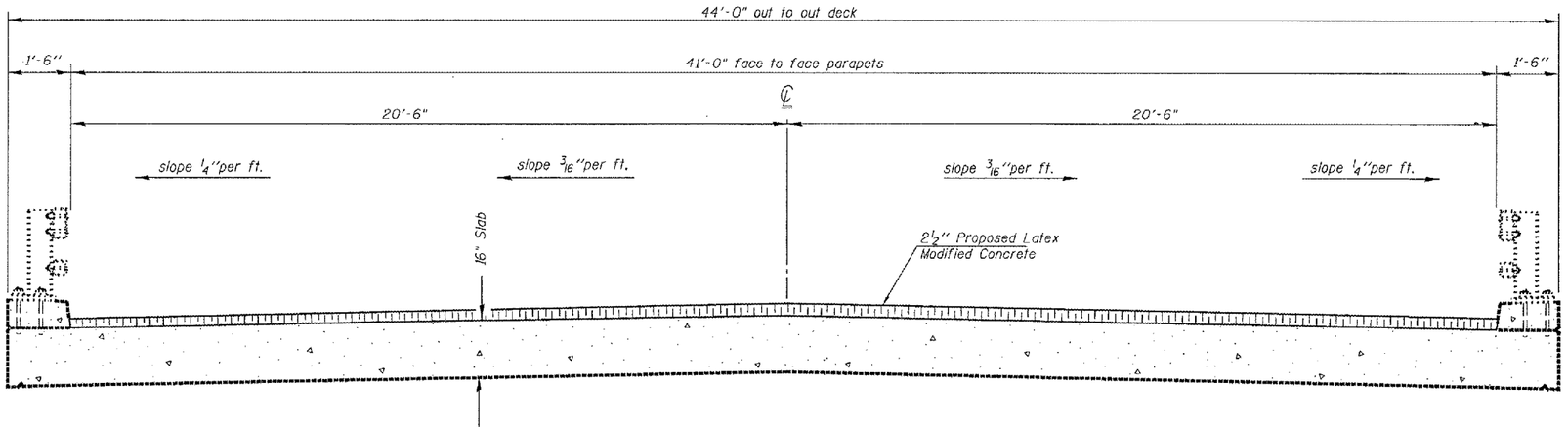
CONTRACT NO. 68713

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(21B-1)L,(20BRI-1)	PUTNAM	25	25
STA. *		TO STA. *		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

* 078-0003 @ Sta. 126+97.50
078-0005 @ Sta. 133+17.70



EXISTING CROSS SECTION



PROPOSED CROSS SECTION

SN.078-0005, IL.29
over Dry Hollow Crk.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

SCALE: VERT.
HORIZ.
DATE 11-13-2007

DRAWN BY CEJ
CHECKED BY

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
REFERENCE = #REF#

...\dab00036\b.o.transfile .dgn 3/6/2008 12:02:55 PM