

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	1
ILLINOIS			CONTRACT NO. 78326	

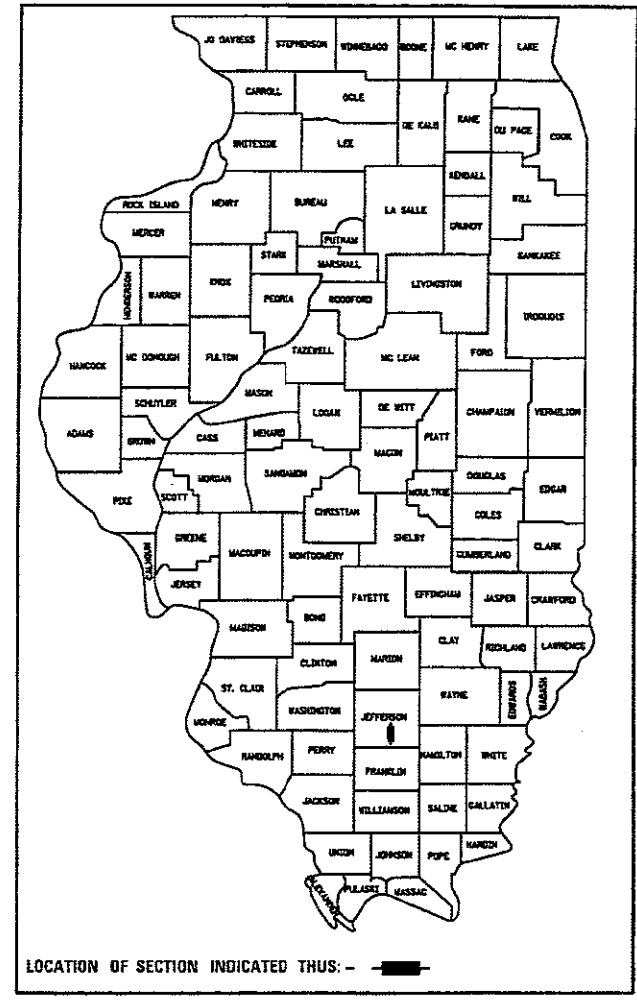
INDEX OF SHEETS 06-15-2018 LETTING ITEM 090

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAS ROUTE 2869 (IL 37)
SECTION 2B-1
PROJECT STP-FRT 9(768)
BRIDGE REPLACEMENT
OVER UNNAMED STREAM
JEFFERSON COUNTY

D-99-050-12



SHEET NO.	DESCRIPTION
ROADWAY PLANS	
1.	COVER SHEET
2.	GENERAL NOTES & STANDARDS
3.-7.	SUMMARY OF QUANTITIES
8.-9.	TYPICAL SECTIONS
10.	SCHEDULE OF QUANTITIES
11.-13.	FAS ROUTE 2869 (IL 37) PLAN AND PROFILE
14.-15.	STAGE CONSTRUCTION PLAN AND DETAILS
16.	EROSION CONTROL PLAN
17.	SEEDING AND MULCHING DETAILS
18.	STEP CONSTRUCTION ON EXISTING FILL DETAILS
19.	BUTT JOINT DETAIL
STRUCTURE PLANS	
20.	GENERAL PLAN
21.	GENERAL DATA
22.	STAGE CONSTRUCTION DETAILS
23.	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
24.-27.	BOX CULVERT DETAILS
28.	STEEL RAILING, TYPE 2399
29.	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
30.	BORING LOGS
EXISTING STRUCTURE PLANS	
<u>SN 041-0093</u>	
31.-33.	EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
CROSS SECTIONS	
34.-39.	FAS ROUTE 2869 (IL 37) CROSS SECTIONS

TRAFFIC DATA

FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL
(NON-URBAN)
ADT: 4150 (2018)
PV: 90.0%
TRUCKS: 10.0%
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH

TOWNSHIPS

SPRING GARDEN

DESIGN DESIGNATION : N.A.
COORDINATE SYSTEM : NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FEET
POSTED SPEED : 55 MPH

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

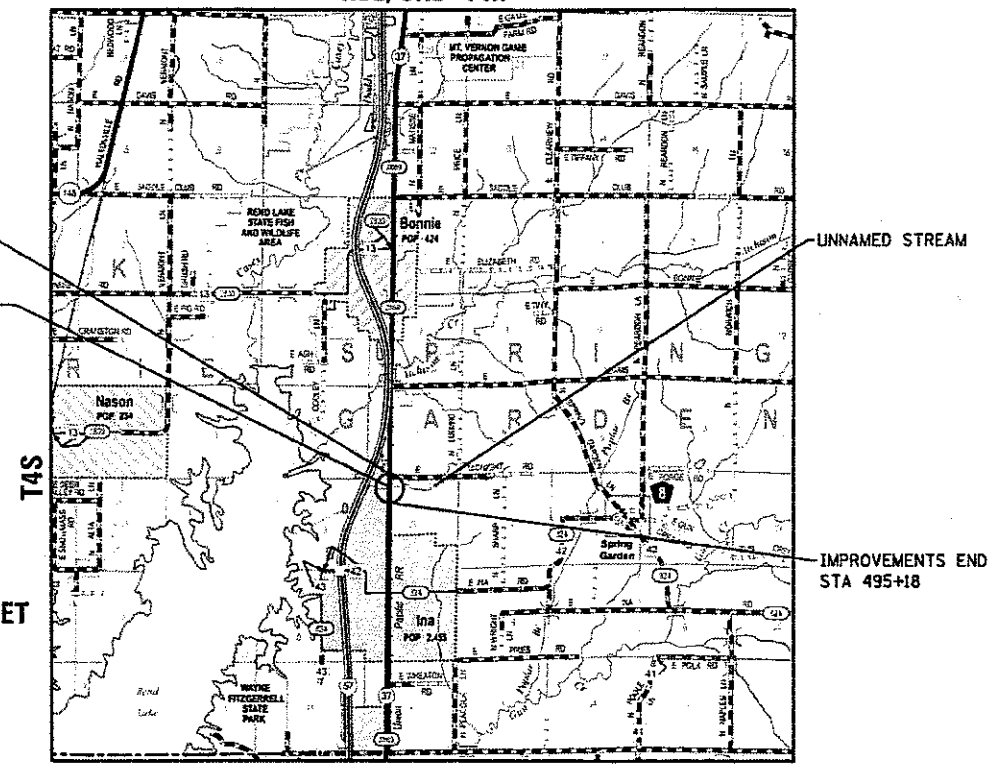
PROJECT ENGINEER: DAVID PICHE
PROJECT DESIGNER: ESCA CONSULTANTS, INC.

CONTRACT NO. 78326

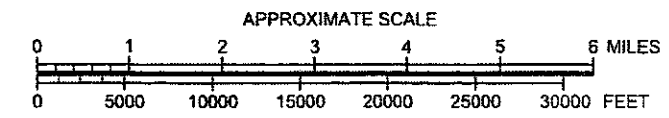
C-99-057-12
R3E, 3RD PM

IMPROVEMENTS BEGIN
STA 494+57

EXISTING STRUCTURE NO. 041-0093
STATION 494+87.40
PROPOSED STRUCTURE NO. 041-2020
STATION 494+87.40
PROPOSED STRUCTURE IS A
DOUBLE 10'-0" x 9'-0" BOX CULVERT
SKEWED 10° LEFT FORWARD



LOCATION MAP



GROSS LENGTH = 61.00 FT. = 0.012 MILES
NET LENGTH = 61.00 FT. = 0.012 MILES



EXPIRES 11-30-17

Eric L. Henkel
SIGNATURE

08-10-17
DATE



ESCA JOB NO. 1259.03

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 18, 2017
Jeffrey Z. Keiser
REGION FIVE ENGINEER
May 11, 2018
Eric A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT
May 11, 2018
Paul P. [Signature]
DIRECTOR OF HIGHWAY PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENTS
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-03	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- AFTER A LIFT OF HOT MIX ASPHALT HAS BEEN PLACED, THE LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150 DEGREES FAHRENHEIT.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE WIDENING.
- THE THICKNESS OF HOT MIX ASPHALT MIXTURE 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 HOT MIX ASPHALT MIXTURE IS PLACED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THIS SHEET OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
RIPRAP	1.50 TONS/CU YD
EARTH	110 LBS/ CU FT
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, OR CONSTRUCTION LIMITS, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
- AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
- IF THE CONTRACTOR ELECTS TO USE P.C.C. BASE COURSE WIDENING, SUCH WIDENING SHALL HAVE TACK COAT APPLIED ACCORDING TO SECTION 406, EXCEPT THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WIDENING.
- THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE HMA SURFACE REMOVAL AND SURFACE COURSE.
- FOR BASE COURSE WIDENING WIDER THAN 6 FT, CONSTRUCTION SHALL FOLLOW ARTICLE 354 OR ARTICLE 356 OF THE STANDARD SPECIFICATIONS.

COMMITMENTS

- REFER TO COMMITMENT FILE FOR ANY COMMITMENTS AFTER MARCH 23, 2018.
- WETLANDS ARE WITHIN THE RIGHT-OF-WAY BUT OUTSIDE OF THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. THE WETLANDS SHALL BE DELINEATED DURING CONSTRUCTION AND SHALL NOT BE DISTURBED.
- TO PROTECT THE PRAIRIE, NO PARKING OF VEHICLES OR STORAGE OF EQUIPMENT OR MATERIALS SHOULD OCCUR ON THE EAST SIDE OF IL 37 BEYOND A NORTH TO SOUTH LINE DRAWN 13 FEET FROM THE EXISTING EDGE OF PAVEMENT.
- DISTURBED AREAS EAST OF IL 37 SHALL BE SEEDED WITH A NATIVE MIX (CLASS 4 & 5A) IN ACCORDANCE WITH SECTION 250 OF THE STANDARD SPECIFICATIONS.
- CLEARING OF TREES SHALL BE PROHIBITED FROM APRIL 1 THROUGH SEPTEMBER 30.

HMA MIXTURES REQUIREMENTS

LOCATION(S):	HMA SURFACE COURSE	BASE COURSE WIDENING	HMA SHOULDERS
MIXTURE USE(S):	HMA SURFACE CSE, MIX C, N70	HMA BINDER CSE, N70, IL-19.0	HMA BINDER CSE, N30, IL-19.0L
AC/PG:	PG64-22	PG64-22	PG64-22
ABR % (MAX.): ***	SEE BDE SPECIAL PROVISIONS	SEE BDE SPECIAL PROVISIONS	SEE BDE SPECIAL PROVISIONS
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN	4.0%, 70 GYRATION DESIGN	4.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5	IL-19.0	IL-19.0
FRICTION AGGREGATE:	C SURFACE	NONE	NONE
MIXTURE WEIGHT:	112 LBS/SO YD/IN	112 LBS/SO YD/IN	112 LBS/SO YD/IN
QUALITY MANAGEMENT PROGRAM:	OCOA	OCOA	OCOA
SUBLOT SIZE:	NA	NA	NA

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

- PREPARED BY: [Signature]
DISTRICT STUDIES & PLANS ENGINEER
- EXAMINED BY: _____
DISTRICT LAND ACQUISITION ENGINEER
- EXAMINED BY: [Signature]
DISTRICT PROGRAM DEVELOPMENT ENGINEER
- EXAMINED BY: [Signature]
DISTRICT OPERATIONS ENGINEER
- EXAMINED BY: [Signature]
DISTRICT PROJECT IMPLEMENTATION ENGINEER
- EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER
- EXAMINED BY: [Signature]
DISTRICT MATERIALS ENGINEER

PRINT DRIVER: MFL1070A
SCALE: 1/8" = 1'-0"
FILE NAME: 111111.DWG



USER NAME = holsteadtw
ESCA PROJECT NO. 1259UB3
PLOT SCALE = 0.1667" / in.
PLOT DATE = 8/17/2017 8:17:55 AM

DESIGNED - KJK
DRAWN - KJK
CHECKED - JMS
DATE - 08/17

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & STANDARDS

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78326	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL	20% STATE
				ROADWAY	0004 ROADWAY
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25	
20200100	EARTH EXCAVATION	CU YD	680	680	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	400	400	
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25	
25000310	SEEDING, CLASS 4	ACRE	0.25	0.25	
25000322	SEEDING, CLASS 5A	ACRE	0.25	0.25	
25000350	SEEDING, CLASS 7	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25	25	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25	25	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25	25	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5	0.5	
25100115	MULCH, METHOD 2	ACRE	0.25	0.25	
25100630	EROSION CONTROL BLANKET	SQ YD	852	852	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50	

Ⓢ SPECIALTY ITEM

PUBLIC WORKS - ILLINOIS
 CONTRACT NO. 18-0001
 11/15/18



USER NAME = Lcompton
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = 0.1867" = 1' 1/2"
 PLOT DATE = 3/5/2018

DESIGNED - KJK
 DRAWN - KJK
 CHECKED - JMS
 DATE - 08/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE SHEET NO. 1 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78326	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL	20% STATE
				ROADWAY	ROADWAY
				0004	
				ROADWAY	
28000400	PERIMETER EROSION BARRIER	FOOT	750	750	
28100109	STONE RIPRAP, CLASS A5	SO YD	200	200	
28200200	FILTER FABRIC	SO YD	200	200	
35650500	BASE COURSE WIDENING 10"	SO YD	410	410	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	142	142	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	317	317	
40603515	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	36	36	
42000060	WELDED WIRE REINFORCEMENT	SO YD	244	244	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SO YD	244	244	
44000100	PAVEMENT REMOVAL	SO YD	128	128	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	168	168	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	80	80	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	30190	30190	

⊗ SPECIALTY ITEM

ESCA
 ENGINEERING & CONSULTING
 1145 N. W. 10th Ave.
 Ft. Lauderdale, FL 33304
 (954) 575-1100
 www.escanet.com



USER NAME = Lamber500
 ESCA PROJECT NO. 125943
 PLOT SCALE = 8:1667 1/2 in.
 PLOT DATE = 04/5/2016 11:43:34 AM

DESIGNED - RJK
 DRAWN - RJK
 CHECKED - JMS
 DATE - 08/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	4
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 78326	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL	20% STATE
				ROADWAY	ROADWAY
				0004	
				ROADWAY	
50800515	BAR SPLICERS	EACH	122	122	
50900200	STEEL RAILING, TYPE 2399	FOOT	49	49	
51500100	NAME PLATES	EACH	1	1	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	280	280	
54003000	CONCRETE BOX CULVERTS	CU YD	156.1	156.1	
⊗ 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	37.5	37.5	
63200310	GUARDRAIL REMOVAL	FOOT	113	113	
⊗ 63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	37.5	37.5	
⊗ 63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	4	4	
⊗ 63302710	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6A	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
67100100	MOBILIZATION	LSUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1	

⊗ SPECIALTY ITEM

11/14/2018 11:42:02 AM
 2018/08/17 08:17
 11/14/2018 11:42:02 AM



USER NAME = leopold
 ESCA PROJECT NO. 1294.03
 PLOT SCALE = 0.1667" = 1'
 PLOT DATE = 2/3/2018 11:42:02 AM

DESIGNED - KJK
 DRAWN - KJK
 CHECKED - JMS
 DATE - 08/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE SHEET NO. 3 OF 5 SHEETS STA. TO STA.

F.R.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78326	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	
				0004	ROADWAY
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6	6	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	592	592	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	197	197	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1980	1980	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
⊗ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
⊗ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1980	1980	
⊗ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2	

⊗ SPECIALTY ITEM

ESCA
 ENGINEERING & ARCHITECTURE
 1000 S. W. 10th Ave.
 Fort Lauderdale, FL 33304
 (954) 575-1000
 FAX (954) 575-1001
 WWW.ESCA-FL.COM



USER NAME = Lemportcp
 ESCA PROJECT NO. 129483
 PLOT SCALE = 1/8" = 1' / 16"
 PLOT DATE = 3/8/2018 11:42:37 AM

DESIGNED - KJK
 DRAWN - KJK
 CHECKED - JMS
 DATE - 08/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION


SUMMARY OF QUANTITIES

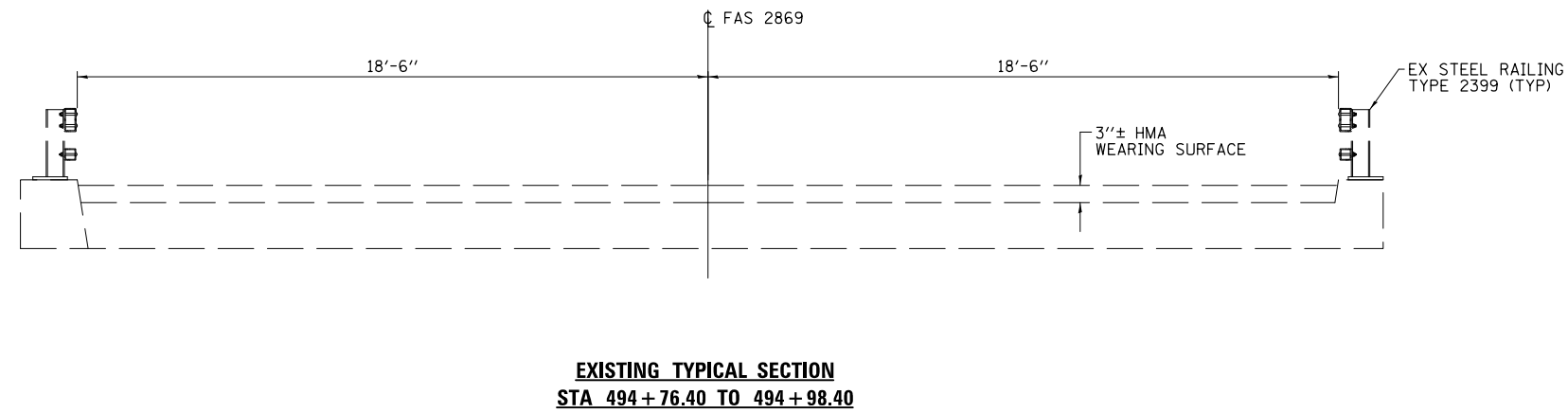
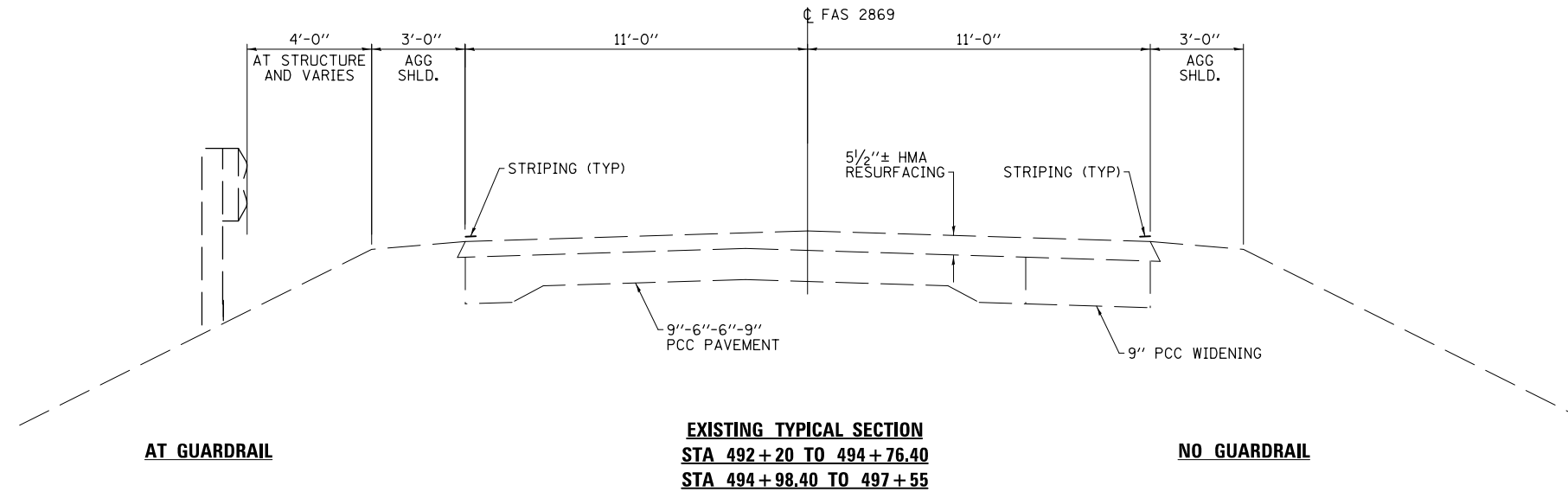
SCALE SHEET NO. 4 OF 5 SHEETS STA. TO STA.

F.A.S. RTE. 2869	SECTION 2B-1	COUNTY JEFFERSON	TOTAL SHEETS 39	SHEET NO. 6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78326	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL	20% STATE
				ROADWAY	0004 ROADWAY
* 7820005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	
7830020	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2	2	
* 8620030	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
X090006	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SO YD	116	116	
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SO FT	520	520	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	661	661	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	70	70	
* Z0054517	ROCK FILL - FOUNDATION	TON	150	150	

⊗ SPECIALTY ITEM

	USER NAME = Lempertcp ESCA PROJECT NO. 125983 PLOT SCALE = 0.1667 / in. PLOT DATE = 3/5/2018 11:43:03 AM	DESIGNED - KJK DRAWN - KJK CHECKED - JMS DATE - 08/17	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES SCALE: SHEET NO. 5 OF 5 SHEETS STA. TO STA.	F.A.S. RTE. 2869 SECTION 2B-1 COUNTY JEFFERSON TOTAL SHEETS 39 SHEET NO. ? CONTRACT NO. 78326 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
---	---	--	--	---	---	---



PRINT DRIVER = L:\0-EB\2017\9
 SCALE NAME = PLOT
 FILE NAME = 20170824-11-10-10.dwg



USER NAME = kjk	DESIGNED - ELH/MJW	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - HAS	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - JMS	REVISED -
PLOT DATE = 8/10/2017 10:48:54 AM	DATE - 04/17	REVISED -

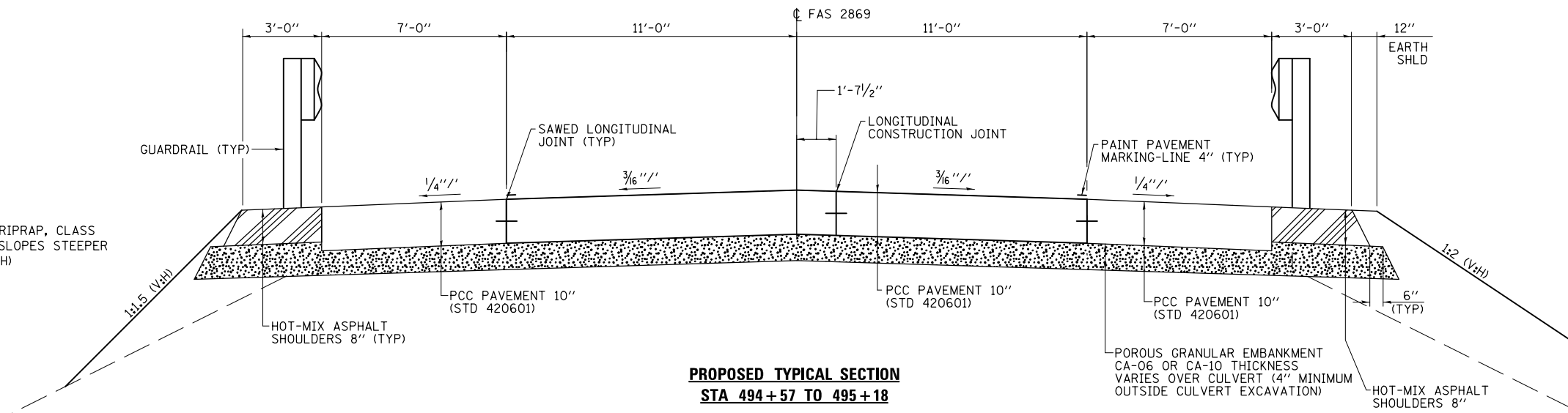
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

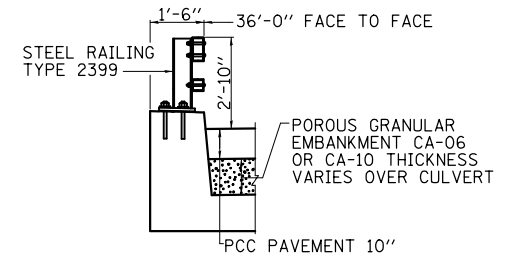
SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	8
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78326	

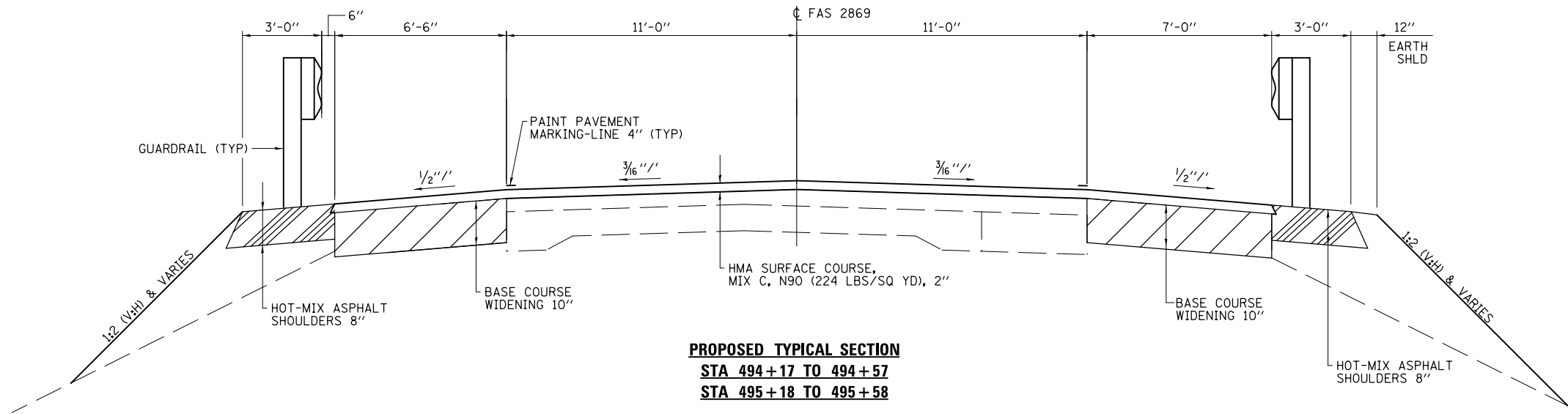
NOTE: USE STONE RIPRAP, CLASS A5 ON ALL SLOPES STEEPER THAN 1:2 (V:H)



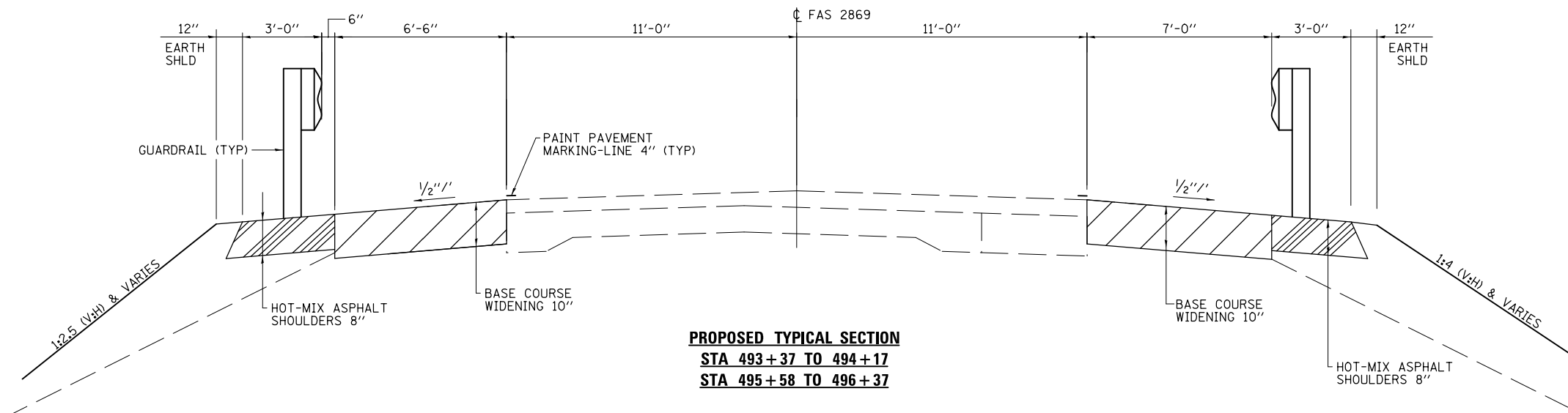
**PROPOSED TYPICAL SECTION
STA 494+57 TO 495+18**



**SHOULDER DETAIL
ACROSS CULVERT**
LT STA 494+79.32 TO 495+01.85
RT STA 494+72.98 TO 494+95.48



**PROPOSED TYPICAL SECTION
STA 494+17 TO 494+57
STA 495+18 TO 495+58**



**PROPOSED TYPICAL SECTION
STA 493+37 TO 494+17
STA 495+58 TO 496+37**

PRINT DRIVER = L:\ESB\Bates\9
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = 0.1667' / 1"



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 8/10/2017 10:49:19 AM	DATE - 08/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	9
CONTRACT NO. 78326				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE						
LOCATION	EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	RIPRAP EXCAVATION MATERIAL	SUITABLE RIPRAP EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
LT STA 492+70 TO 494+70	24	18			27	-9
RT STA 492+70 TO 494+70	17	13			127	-114
STA 494+70 TO 495+05	568	426	123	SEE NOTE 4	87	+339
LT STA 495+05 TO 496+70	18	14			20	-6
RT STA 495+05 TO 496+70	53	40			50	-10
TOTALS	680	511	123		311	+200

NOTES:

- EXCAVATION USED AS EMBANKMENT = (SUITABLE EXCAVATION)*0.75
- RIPRAP EXCAVATION IS NOT A PAY ITEM AND IT IS INCLUDED IN THE COST OF STONE RIPRAP, CLASS A5.
- THE EARTHWORK SCHEDULE DOES NOT REFLECT THE EARTHWORK AND EARTHWORK BALANCE FOR THE VARIOUS STAGES.
- THE EARTHWORK SCHEDULE HAS ASSUMED THE RIPRAP EXCAVATION MAY NOT BE SUITABLE FOR USE AS EMBANKMENT.
- EXCAVATION FOR CONSTRUCTION OF THE CONCRETE BOX CULVERT, INCLUDING THE EXCAVATION NECESSARY TO CONSTRUCT THE GRANULAR BACKFILL, WILL BE MEASURED AND PAID FOR AS EARTH EXCAVATION.

SEEDING SCHEDULE									
LOCATION	SEEDING, CLASS 2A	SEEDING, CLASS 4	SEEDING, CLASS 5A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
	ACRE	ACRE	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE
SE QUADRANT		0.10	0.10	0.05	3	3	3	0.1	0.03
NE QUADRANT		0.15	0.15	0.05	4	4	4	0.1	0.04
NW QUADRANT	0.10			0.10	7	7	7	0.2	0.07
SW QUADRANT	0.15			0.05	11	11	11	0.1	0.11
TOTALS	0.25	0.25	0.25	0.25	25	25	25	0.5	0.25

EROSION CONTROL SCHEDULE			
LOCATION	TEMPORARY EROSION CONTROL SEEDING (2 APPLICATIONS)	PERIMETER EROSION BARRIER	EROSION CONTROL BLANKET
	POUND	FOOT	SQ YD
SE QUADRANT		166	94
NE QUADRANT		169	124
NW QUADRANT		196	245
SW QUADRANT		219	389
JOBSITE	50		
TOTALS	50	750	852

REMOVAL SCHEDULE		
LOCATION	PAVEMENT REMOVAL	HMA SURFACE REMOVAL - BUTT JOINT
	SQ YD	SQ YD
STA 494+57 TO 495+18	128	
STA 494+17 TO 494+57		158.5
STA 495+18 TO 495+58		158.5
TOTALS	128	317

- ③ HMA SURFACE REMOVAL HAS BEEN INCLUDED TO PROVIDE A BUTT JOINT FOR THE HMA RESURFACING PLACED ON THE BASE COURSE WIDENING 10". REMOVAL OF EITHER PCC OR HMA WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR HMA SURFACE REMOVAL - BUTT JOINT.

TREE REMOVAL SCHEDULE	
LOCATION	TREE REMOVAL
	ACRE
RT STA 493+07 TO 494+50	0.06
RT STA 495+50 TO 496+70	0.19
TOTAL	0.25

SHOULDERS SCHEDULE	
LOCATION	HMA SHOULDERS, 8"
	SQ YD
LT STA 493+77.00 TO 494+79.82	39
LT STA 495+01.32 TO 496+37.00	51
RT STA 493+37.00 TO 494+73.48	45
RT STA 494+94.98 TO 495+96.00	33
TOTAL	168

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE		
LOCATION	RRPM	RRPM REMOVAL
	EACH	EACH
STA 494+17 TO 495+58	2	2
TOTALS	2	2

PCC PAVEMENT SCHEDULE			
LOCATION	PCC PAVEMENT 10" (STD 420601)	WELDED WIRE REINFORCEMENT	POROUS GRANULAR EMBANKMENT
	SQ YD	SQ YD	CU YD
STA 494+57 TO 495+18	244	244	400
TOTALS	244	244	400

- ⑤ THE QUANTITY INCLUDES PLACEMENT OF PGE TO FILL THE VOID CREATED BY THE STRUCTURE AND THE PAVEMENT REMOVAL. A MINIMUM 4" THICKNESS BENEATH THE PCC PAVEMENT 10" OUTSIDE THE CULVERT EXCAVATION LIMITS SHALL ALSO BE PROVIDED.

PAVEMENT MARKING SCHEDULE				
LOCATION	DESCRIPTION	SHORT TERM PAVEMENT MARKING	PAINT PAVEMENT MARKING - LINE	TEMP PAVEMENT MARKING - LINE
		①	4"	4"
		FOOT	FOOT	FOOT
CL STA 491+60 TO 498+13	DOUBLE YELLOW	528	1310	1310
LT STA 493+20 TO 496+48	WHITE EDGE	32	330	330
RT STA 493+21 TO 496+60	WHITE EDGE	32	340	340
TOTALS		592	1980	1980

- ① INCLUDES 2 APPLICATIONS

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE				
LOCATION	PAVEMENT MARKING DESCRIPTION	TEMPORARY PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL - GRINDING	SHORT TERM PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT	SQ FT
CL STA 491+60 TO 498+13	DOUBLE YELLOW	437	340	
CL STA 491+60 TO 498+13	DOUBLE YELLOW			175
LT STA 493+20 TO 496+48	WHITE EDGE	110	110	
RT STA 493+21 TO 496+60	WHITE EDGE	114	70	
LT STA 493+20 TO 496+48	WHITE EDGE			11
RT STA 493+21 TO 496+60	WHITE EDGE			11
TOTALS		661	520	197

- ② REMOVAL OF EXISTING PAVEMENT MARKINGS

BASE COURSE WIDENING 10" SCHEDULE	
LOCATION	BASE COURSE WIDENING 10"
	SQ YD
LT STA 493+19 TO 494+76.4	103
LT STA 494+98.4 TO 496+49	107
RT STA 493+20 TO 494+57	103
RT STA 495+18 TO 496+61	97
TOTAL	410

PAVING SCHEDULE		
LOCATION	HMA SURFACE COURSE, MIX "C", N90	BITUMINOUS MATERIALS (TACK COAT)
	TON	POUND
STA 494+17 TO 494+57	18	71
STA 495+18 TO 495+58	18	71
TOTALS	36	142

GUARDRAIL SCHEDULE							
LOCATION	REMOVE & REERECT SPBGR, TYPE A	SPBGR, TYPE A, 9' FOOT POSTS	REMOVE & REERECT TRAFFIC BARRIER TERMINALS		GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REMOVAL
			TYPE 6A	TYPE 1			
	FOOT	FOOT	EACH	EACH	EACH	EACH	FOOT
SE QUADRANT		37.5	1	1		1	75
NE QUADRANT			1	1		1	
NW QUADRANT	37.5		1	1		1	38
SW QUADRANT			1	1		1	
RT STA 493+44 TO 495+89					4		
LT STA 493+85 TO 496+32					4		
TOTALS	37.5	37.5	4	4	8	4	113

NOTES:

1. THE BRIDGE RAIL ON THE STRUCTURE WILL BE INCIDENTAL TO REMOVAL OF EXISTING STRUCTURES.

PRINT DRIVER = L:\ES\Bartler\9
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = 0.1667' / 1"

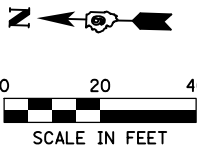


USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 8/10/2017 10:49:45 AM	DATE - 08/17	REVISED -

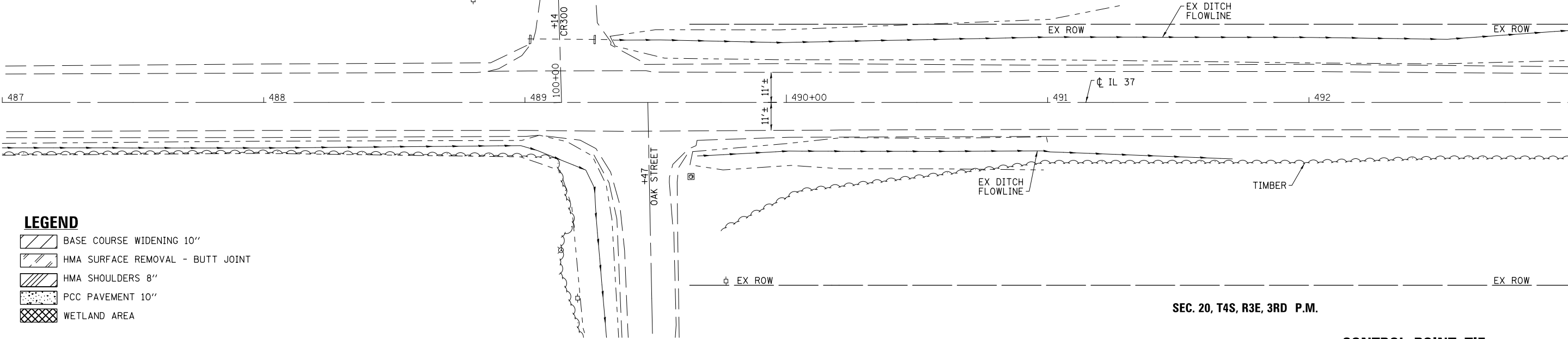
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE	SHEET NO. 1 OF 1 SHEETS	2869	2B-1	JEFFERSON	39	10
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 78326

SEC. 20, T4S, R3E, 3RD P.M.



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

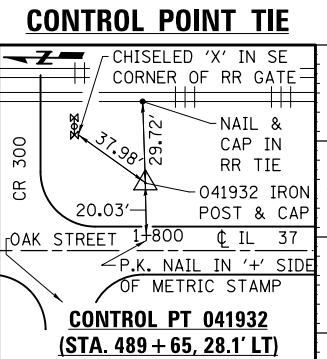
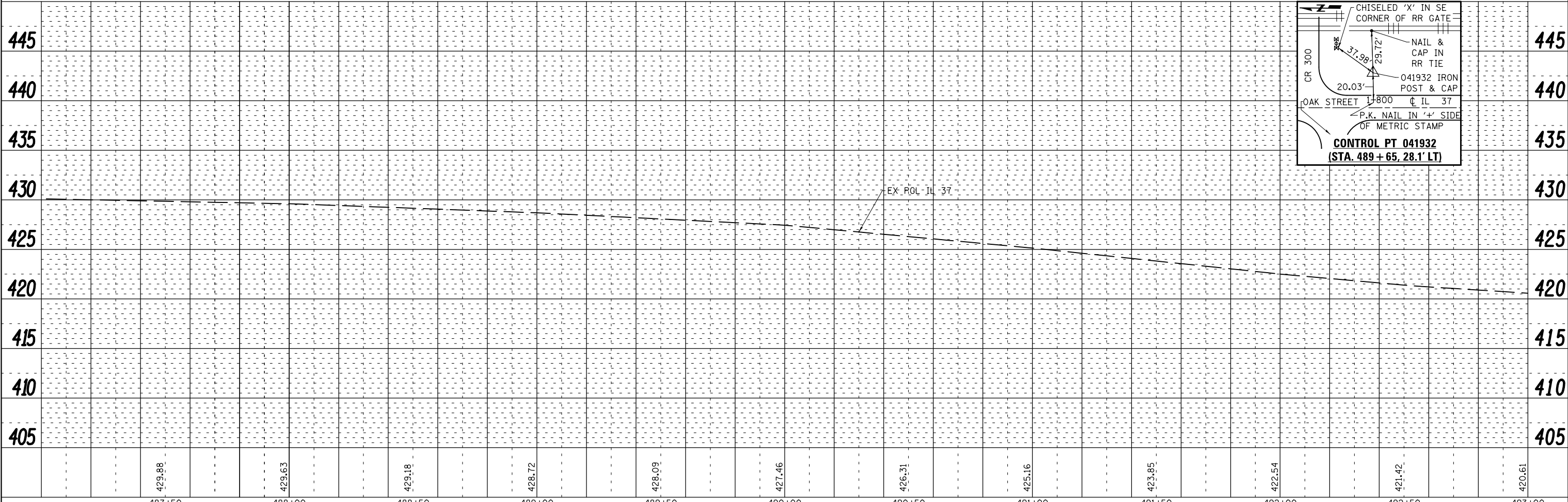


MATCH LINE STA. 493+00
SEE SHEET 12

- LEGEND**
- BASE COURSE WIDENING 10"
 - HMA SURFACE REMOVAL - BUTT JOINT
 - HMA SHOULDERS 8"
 - PCC PAVEMENT 10"
 - WETLAND AREA

SEC. 20, T4S, R3E, 3RD P.M.

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOTATIS		
	NO.		



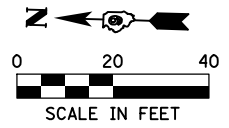
USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - KJK	REVISED -
PLOT SCALE = (HORIZ) 1"=20' (VERT) 1"=5'	CHECKED - JMS	REVISED -
PLOT DATE = 8/10/2017	DATE - 07/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 2869 (IL 37) PLAN & PROFILE

SCALE: AS SHOWN SHEET NO. 1 OF 3 SHEETS STA. 487+00 TO STA. 493+00

F.A.S. RTE. 2869	SECTION 2B-1	COUNTY JEFFERSON	TOTAL SHEETS 39	SHEET NO. 11
CONTRACT NO. 78326			ILLINOIS FED. AID PROJECT	



SEC. 20, T4S, R3E, 3RD P.M.

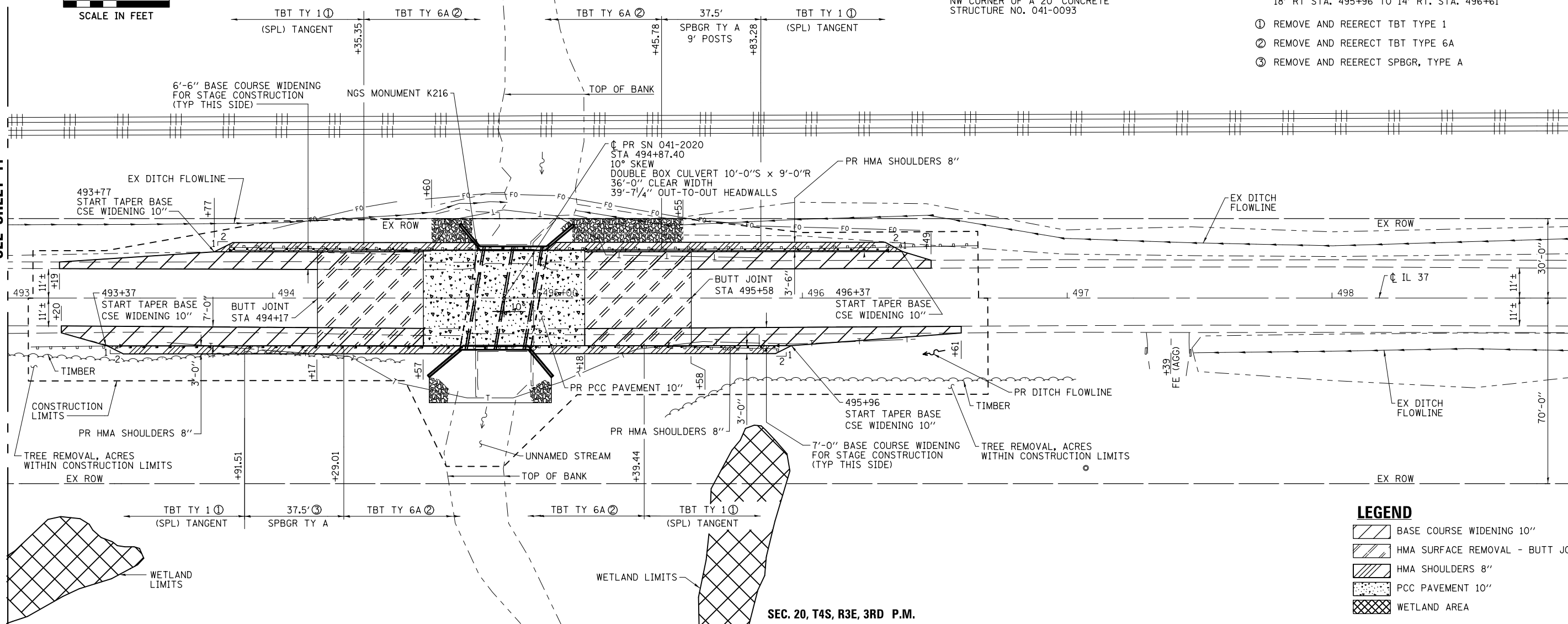
NGS MONUMENT K216 EL 420.337
 NGS MONUMENT SET IN THE TOP OF SW CORNER OF A 20' CONCRETE STRUCTURE NO. 041-0093

NOTES: BASE COURSE WIDENING 10" TAPERS
 14' LT STA. 493+19 TO 17.5' LT. STA. 493+77
 14' RT STA. 493+20 TO 18' RT. STA. 493+37
 17.5' LT STA. 496+37 TO 14' LT. STA. 496+49
 18' RT STA. 495+96 TO 14' RT. STA. 496+61

- ① REMOVE AND REERECT TBT TYPE 1
- ② REMOVE AND REERECT TBT TYPE 6A
- ③ REMOVE AND REERECT SPBGR, TYPE A

MATCH LINE STA. 493 + 00
SEE SHEET 11

MATCH LINE STA. 499 + 00
SEE SHEET 13



LEGEND

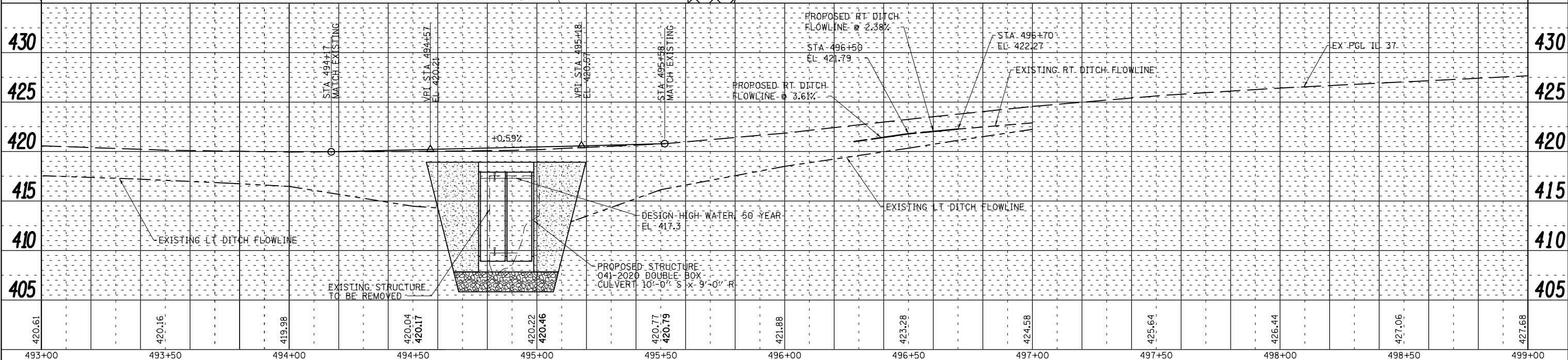
	BASE COURSE WIDENING 10"
	HMA SURFACE REMOVAL - BUTT JOINT
	HMA SHOULDERS 8"
	PCC PAVEMENT 10"
	WETLAND AREA

PLAN

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
DESIGNED	
NOTE BOOK NO.	
CARD FILE NAME	

PROFILE

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
STRUCTURE	



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 2869 (IL 37) PLAN & PROFILE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	12
CONTRACT NO. 78326				



USER NAME = kjk
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = (HORIZ) 1"=20' (VERT) 1"=5'
 PLOT DATE = 8/10/2017

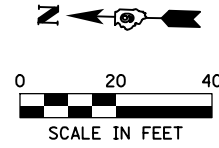
DESIGNED - KJK
 DRAWN - KJK
 CHECKED - JMS
 DATE - 08/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

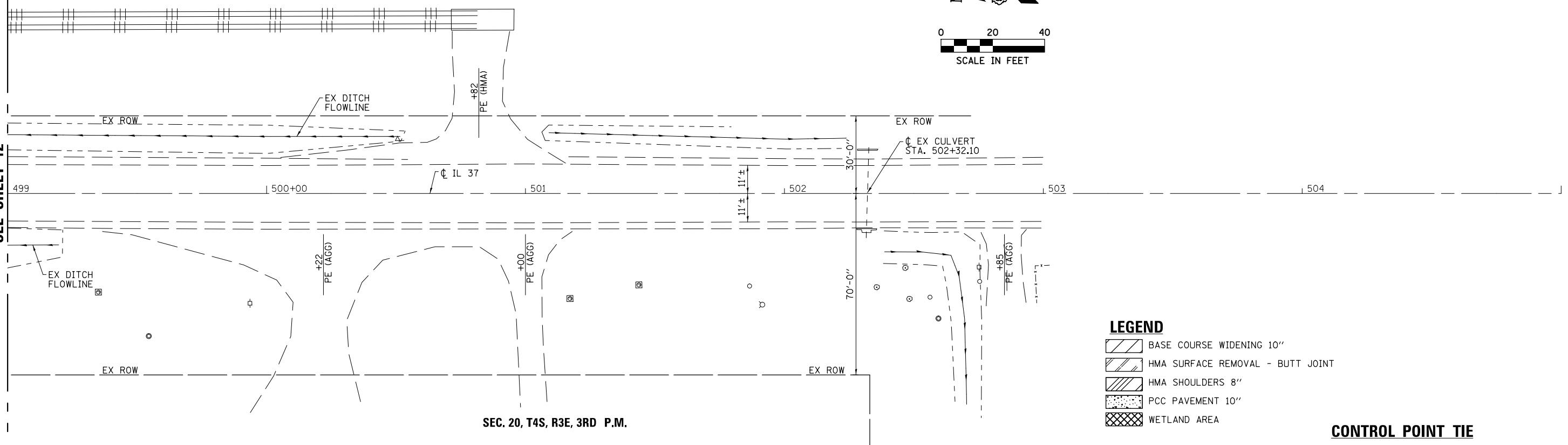
SCALE: AS SHOWN SHEET NO. 2 OF 3 SHEETS STA. 493+00 TO STA. 499+00

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

SEC. 20, T4S, R3E, 3RD P.M.



MATCH LINE STA. 499 + 00
SEE SHEET 12

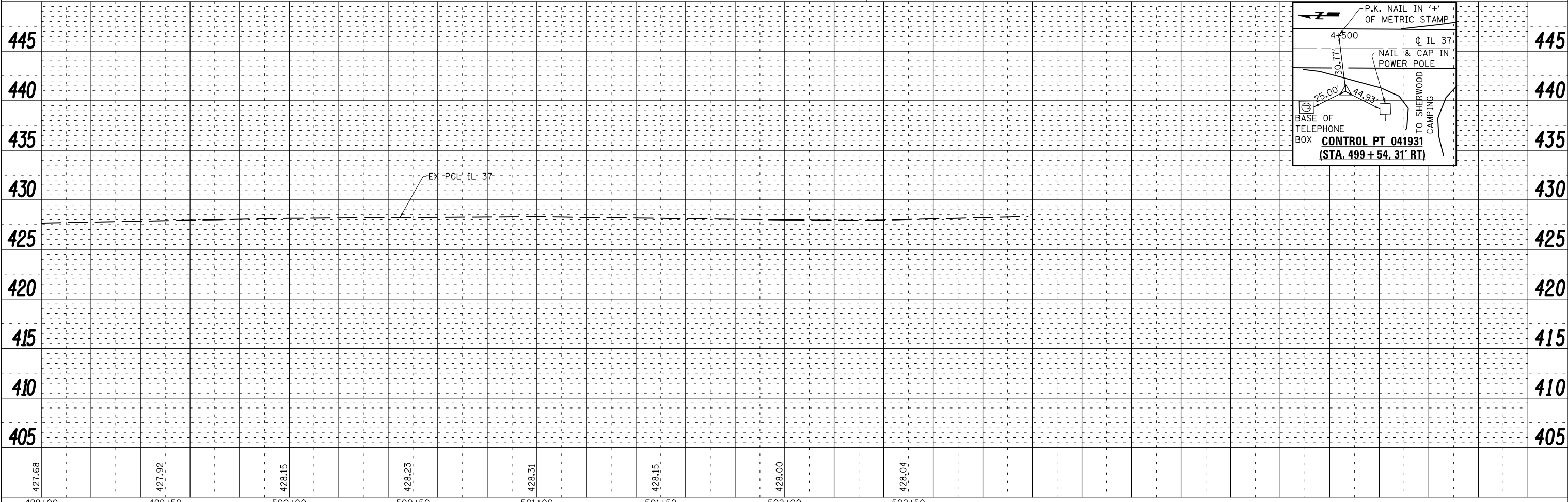
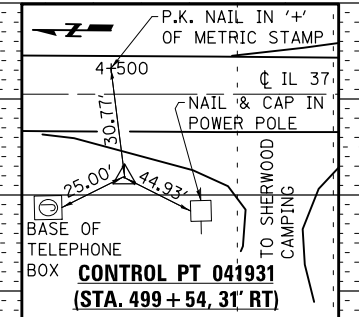


SEC. 20, T4S, R3E, 3RD P.M.

LEGEND

- BASE COURSE WIDENING 10"
- HMA SURFACE REMOVAL - BUTT JOINT
- HMA SHOULDERS 8"
- PCC PAVEMENT 10"
- WETLAND AREA

CONTROL POINT TIE



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO. _____	
	CARD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE	
	NOTATIS CHFD	
	NO. _____	



USER NAME = kjk
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = (HORIZ) 1"=20' (VERT) 1"=5'
 PLOT DATE = 8/10/2017

DESIGNED - KJK
 DRAWN - KJK
 CHECKED - JMS
 DATE - 07/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAS ROUTE 2869 (IL 37) PLAN & PROFILE

SCALE: AS SHOWN SHEET NO. 3 OF 3 SHEETS STA. 499+00 TO STA. 503+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	13
CONTRACT NO. 78326				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER			FEET	
STATION	TO STATION	TO STATION		
493+31.3	4.8' RT	494+31.3	3.5' LT	100.0'
494+31.3	3.5' LT	495+43.8	3.5' LT	112.5'
495+43.8	3.5' LT	496+43.8	4.8' RT	100.0'
			312.5'	

PINNING TEMPORARY CONCRETE BARRIER				EACH
STATION	TO STATION	TYPE		
493+80.6	494+05.6	TRANSITION		3
494+05.6	494+75	CONTINUOUS		17
495+00	495+69.3	CONTINUOUS		17
495+69.3	495+94.3	TRANSITION		3
			STAGE I TOTAL	40

TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH

TEMPORARY RUMBLE STRIPS - 6 EACH

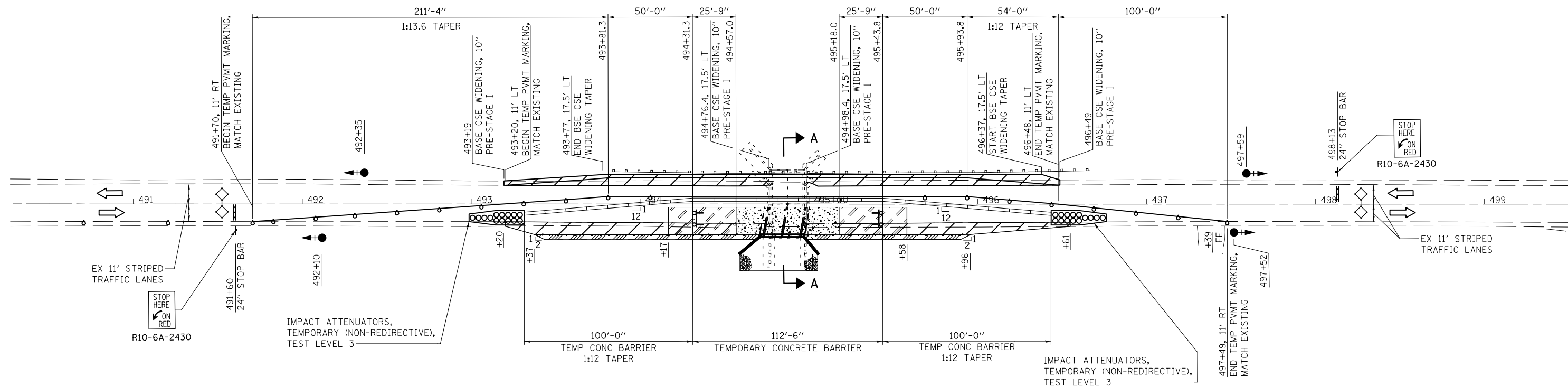
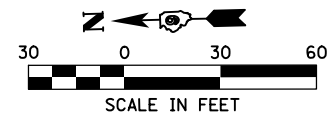
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

LEGEND

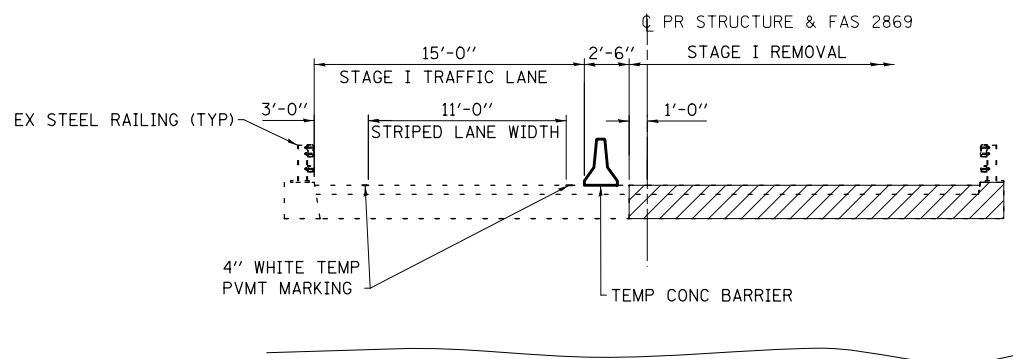
- DIRECTION OF TRAFFIC
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- DETECTOR LOOP
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- BASE COURSE WIDENING 10"
- HMA SURFACE REMOVAL - BUTT JOINT
- HMA SHOULDERS 8"
- PCC PAVEMENT 10"

GENERAL NOTES

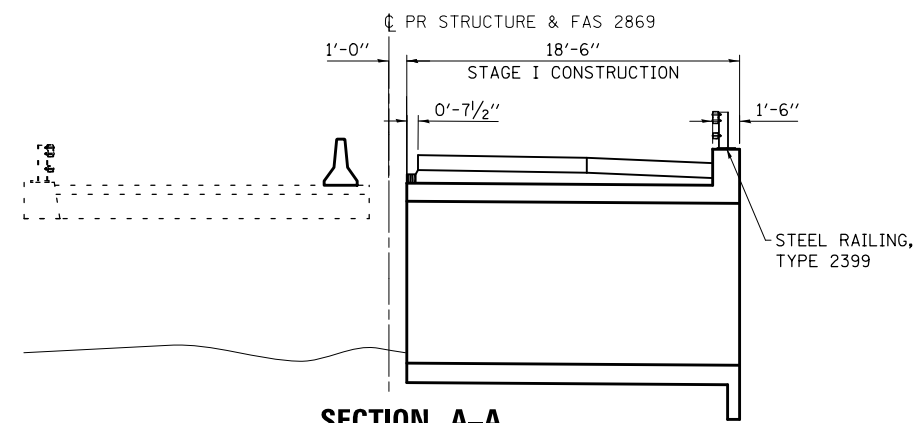
- PRE-STAGE I: CONSTRUCT THE BASE COURSE FROM LT STA 493+19 TO LT STA 496+49 AS SHOWN ON THIS SHEET PRIOR TO PLACING THE SIGNALS IN OPERATION AND PLACEMENT OF THE TEMPORARY BARRIERS. THE EXISTING DEBRIS AND AGGREGATE SHALL BE REMOVED FROM THE TOP OF THE BOX CULVERT WEARING SURFACE WITHIN THE AREA OF THE STAGE I TRAFFIC LANE. THE COST ASSOCIATED WITH THE REMOVAL WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE BASE COURSE WIDENING, 10". TEMPORARY REPAIR OR PATCHING OF THE EXISTING WEARING SURFACE FOR STAGE I TRAFFIC, IF NEEDED AND DIRECTED BY THE ENGINEER, WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
- ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103) SHOWN ON SHEET 15 SHALL BE 13'-6" FOR STAGE I CONSTRUCTION.
- THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNAL SHALL BE SET TO FLASH ALL RED.
- THE STAGE I CONSTRUCTION SHALL INCLUDE COMPLETION OF THE EARTHWORK, BASE COURSE WIDENING, HMA SURFACE REMOVAL, HMA SURFACE COURSE, HMA SHOULDERS, GUARDRAIL, AND TRAFFIC BARRIER TERMINALS FROM RT STA 493+20 TO RT STA 496+61 AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS. PLACEMENT OF THE BASE COURSE AND HMA SURFACE AS INDICATED MAY REQUIRE RELOCATION OF THE TEMPORARY BARRIERS AND THE IMPACT ATTENUATORS DURING THE DAYTIME HOURS. THE COST ASSOCIATED WITH THE STAGING, INCLUDING ANY RELOCATION OF THE TEMPORARY CONCRETE BARRIERS AND IMPACT ATTENUATORS, WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS INCLUDED IN THE PLANS.
- THE CONTRACTOR AND THE ENGINEER SHALL COORDINATE ACCESS WITH THE PROPERTY OWNER DURING CONSTRUCTION FOR THE FIELD ENTRANCE AT RT STA 497+39.
- THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED AS SPECIFIED IN SECTION 704 OF THE STANDARD SPECIFICATIONS AND ACCORDING TO THE DETAILS SHOWN ON SHEET NO. 23 OF THE PLANS. THE TEMPORARY CONCRETE BARRIER FROM STA 494+75 TO STA 495+00 SHALL BE PINNED ACCORDING TO THE EXISTING SLAB DETAIL SHOWN ON SHEET NO. 23. THE COST OF DRILLING AND PLACING THE RESTRAINING PINS INTO THE SLAB WILL NOT BE PAID FOR SEPARATELY.



STAGE 1 PLAN



SECTION A-A REMOVAL



SECTION A-A CONSTRUCTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION PLAN AND DETAILS

SCALE: AS SHOWN SHEET NO. 1 OF 2 SHEETS STA. 490+50 TO STA. 499+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	14
CONTRACT NO. 78326				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PRINT DRIVER = L:\05\Bartlett\9
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = 0.1667' / 1"



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 8/10/2017 10:53:50 AM	DATE - 07/17	REVISED -

SCHEDULE OF QUANTITIES

RELOCATE TEMPORARY CONCRETE BARRIER			
STATION, O/S	TO	STATION, O/S	FEET
493+31.3, 4.3' LT		494+31.3, 4' RT	100.0'
494+31.3, 4' RT		495+43.8, 4' RT	112.5'
495+43.8, 4' RT		496+43.8, 4.3' LT	100.0'
			312.5'

PINNING TEMPORARY CONCRETE BARRIER				
STATION	TO	STATION	TYPE	EACH
493+81.3		494+06.3	TRANSITION	3
494+06.3		494+57	CONTINUOUS	12
495+18		495+68.7	CONTINUOUS	12
495+68.7		495+93.7	TRANSITION	3
STAGE II TOTAL				30

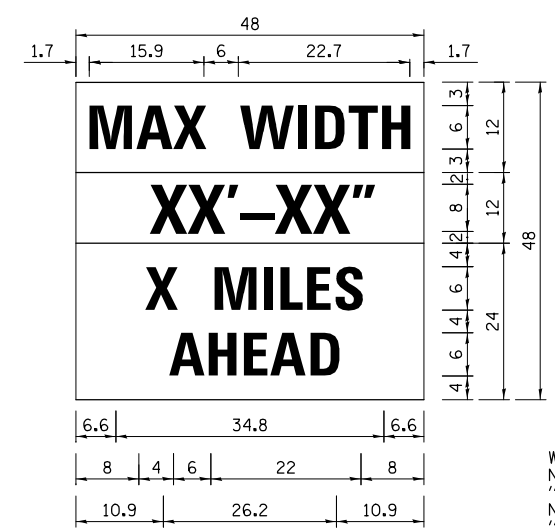
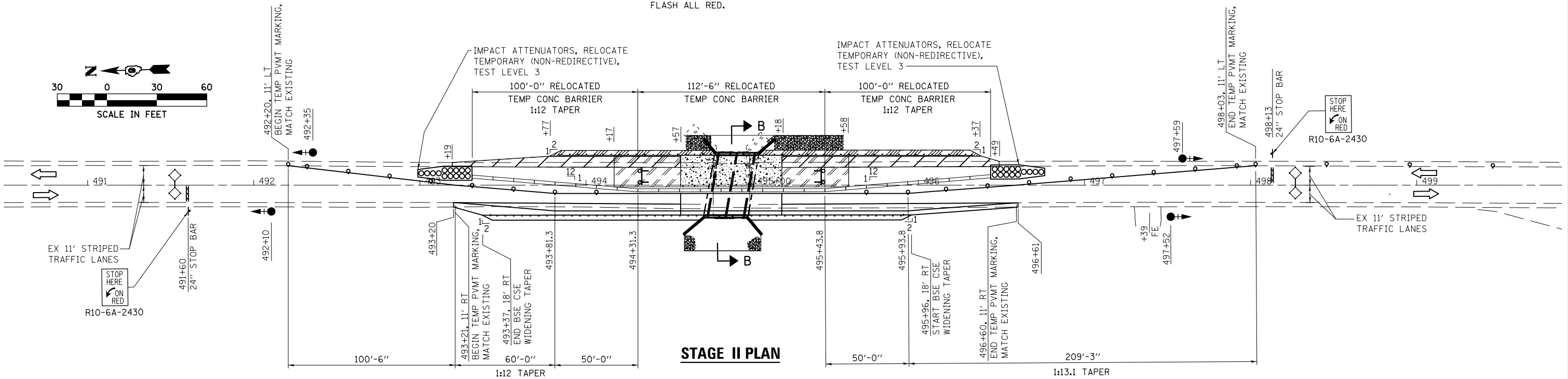
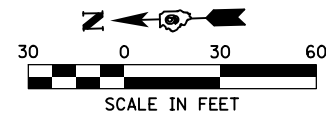
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

LEGEND

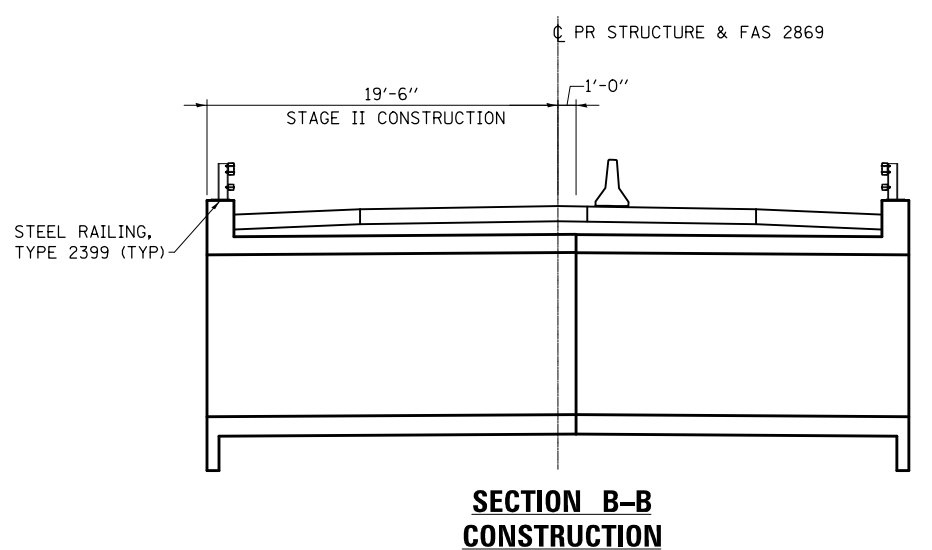
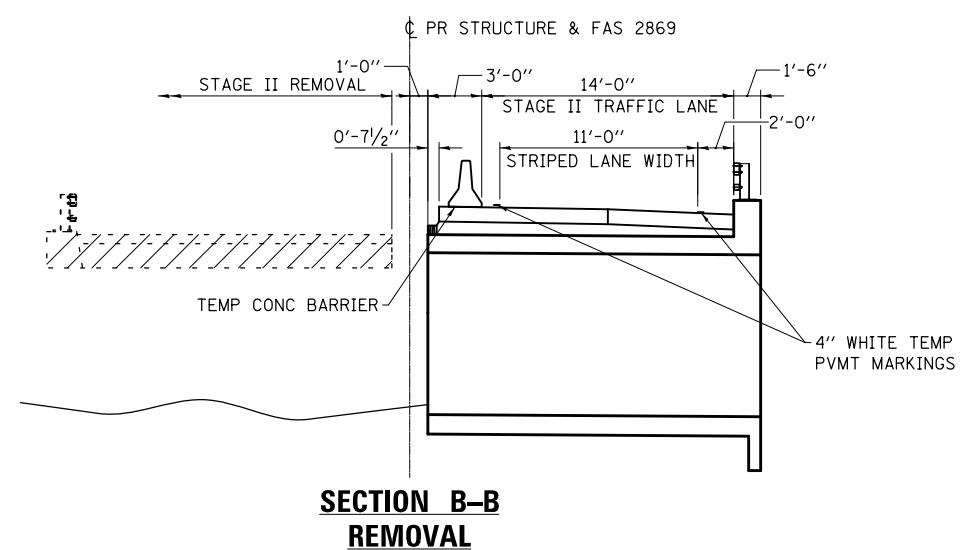
- DIRECTION OF TRAFFIC
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- DETECTOR LOOP
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- BASE COURSE WIDENING 10"
- HMA SURFACE REMOVAL - BUTT JOINT
- HMA SHOULDERS 8"
- PCC PAVEMENT 10"

GENERAL NOTES

- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
- ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THIS SHEET SHALL BE 12'-6" FOR STAGE II CONSTRUCTION.
- THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
- THE TEMPORARY SIGNALS WILL REMAIN IN OPERATION AND THE TEMPORARY BARRIERS WILL REMAIN IN PLACE UNTIL THE CONCRETE BOX CULVERT AND PCC PAVEMENT 10" IS COMPLETE INCLUDING STEEL RAILING, TYPE 2399. THE REMAINING HMA RESURFACING, HMA SHOULDERS, GUARDRAIL, AND TRAFFIC BARRIER TERMINALS SHALL BE COMPLETED USING THE APPROPRIATE STANDARDS INCLUDED IN THE PLANS AND TRAFFIC SHALL BE OPEN TO BOTH LANES DURING NON-WORKING HOURS. THE CONTRACTOR SHALL SCHEDULE THEIR OPERATIONS SO THERE IS NO MORE THAN TWO WEEKS BETWEEN THE REMOVAL OF THE TEMPORARY BARRIERS AND THE START OF GUARDRAIL AND TERMINAL INSTALLATION.
- THE CONTRACTOR'S OPERATION MAY RESULT IN A DROP-OFF AT THE END OF THE PCC PAVEMENT 10" THAT IS UNDER TRAFFIC PRIOR TO THE HMA RESURFACING. TEMPORARY RAMPS SHALL BE PROVIDED AT THESE LOCATIONS IF NEEDED ACCORDING TO ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE COST FOR THE TEMPORARY RAMPS AT THESE LOCATIONS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF VARIOUS HMA PAY ITEMS INCLUDED IN THE PLANS.
- THE CONTRACTOR AND THE ENGINEER SHALL COORDINATE ACCESS WITH THE PROPERTY OWNER DURING CONSTRUCTION FOR THE FIELD ENTRANCE AT RT STA 497+39.
- THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED AS SPECIFIED IN SECTION 704 OF THE STANDARD SPECIFICATIONS AND ACCORDING TO THE DETAILS SHOWN ON SHEET NO. 23 OF THE PLANS. THE TEMPORARY CONCRETE BARRIER PLACED ON THE PROPOSED PCC PAVEMENT 10" FROM STA 494+57 TO 495+18 SHALL BE RESTRAINED USING STEEL RETAINERS 1" X 10" X 10" AS SHOWN FOR DETAIL III ON SHEET NO. 23. THE STEEL RETAINERS SHALL BE PLACED ON 6'-0" CENTERS AND SECURED TO THE PAVEMENT BY PLACING 2 EACH 3/8" DIAMETER EXPANSION ANCHORS OR CAST IN PLACE INSERTS AT THE MID-DEPTH OF THE PAVEMENT. THE ANCHORS OR INSERTS SHALL HAVE A MINIMUM PROOF LOAD OF 5,000 POUNDS. THE COST OF PROVIDING THE RESTRAINING SYSTEM FOR THE TEMPORARY CONCRETE BARRIER ON TOP OF THE PCC PAVEMENT 10" WILL NOT BE PAID FOR SEPARATELY.



W12-I103
 W12-I103 (Width Is 8D);
 No border, Black on White;
 "MAX WIDTH" D;
 No border, Black on Orange;
 "XX'-XX'" D;
 No border, Black on White;
 "X MILES" D; "AHEAD" D



NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION PLAN AND DETAILS

SCALE: AS SHOWN SHEET NO. 2 OF 2 SHEETS STA. 490+50 TO STA. 499+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	15
CONTRACT NO. 78326				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				


PRINT DRIVER = LUD-EB-04-10-19
 LUD-EB-04-10-19
 SCALE NAME = 1:1000
 FILE NAME = 201908-11-10-19-10-19.dwg



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 8/10/2017 10:54:17 AM	DATE - 07/17	REVISED -

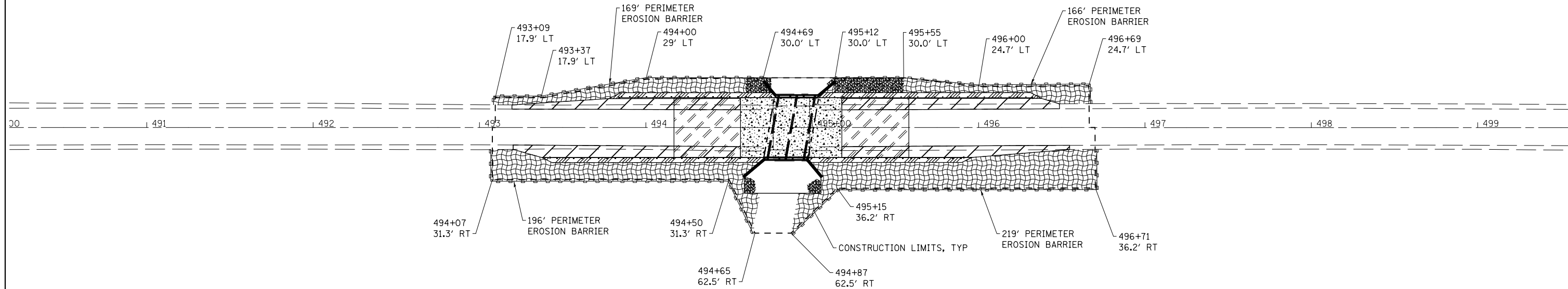
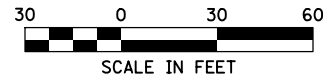
LEGEND

 SEEDING CLASS 2A AND EROSION CONTROL BLANKET (WEST OF IL 37)
SEEDING CLASS 4, CLASS 5A, AND EROSION CONTROL BLANKET (EAST OF IL 37)

 PERIMETER EROSION BARRIER

 STONE RIPRAP, CLASS A5

STATIONS AND OFFSETS SHOWN ARE TO THE CONSTRUCTION LIMITS. THE PERIMETER EROSION BARRIER WILL BE PLACED 1'-0" OUTSIDE THE CONSTRUCTION LIMITS. THE SEEDING AND EROSION CONTROL BLANKET WILL BE PLACED TO THE LIMITS OF THE PERIMETER EROSION BARRIER.



PRINT DRIVER = L:\05-2017\10-17-17\10-17-17.dwg
 PLOT SCALE = 0.1667' / 1"



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JMS	REVISED -
PLOT DATE = 8/10/2017 10:54:44 AM	DATE - 07/17	REVISED -

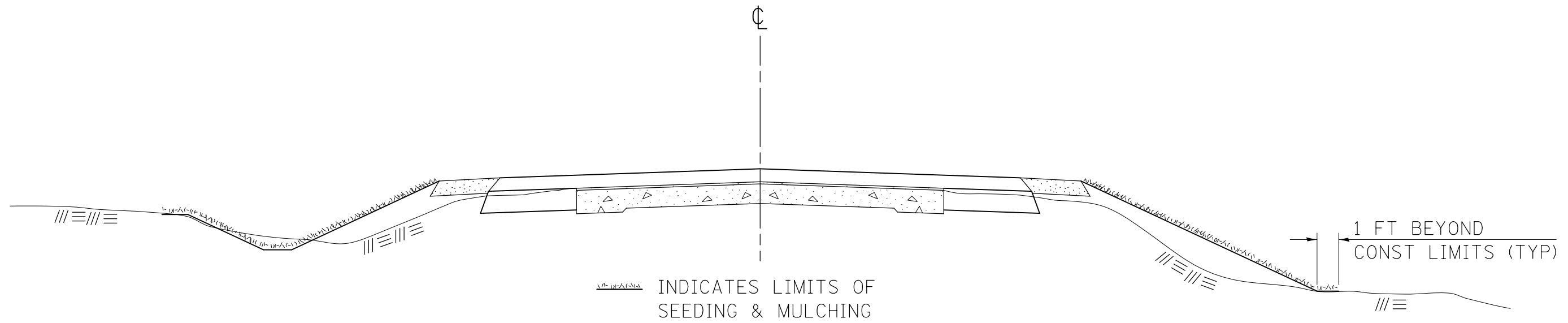
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 490+00 TO STA. 499+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78326	

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

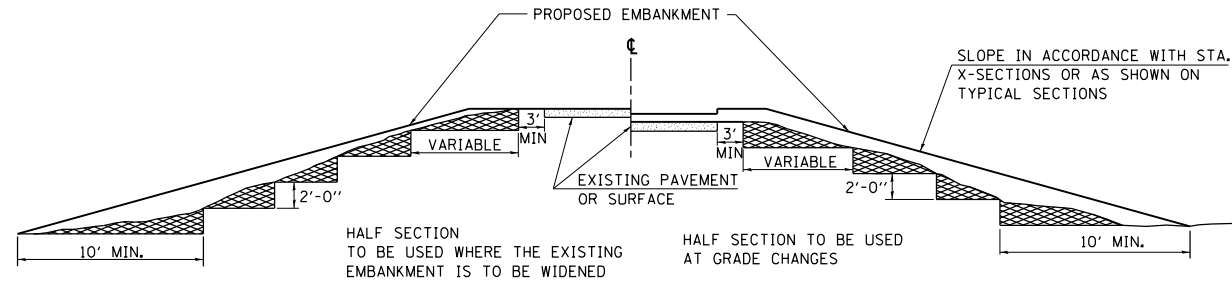
SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

STD. 9-12

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL

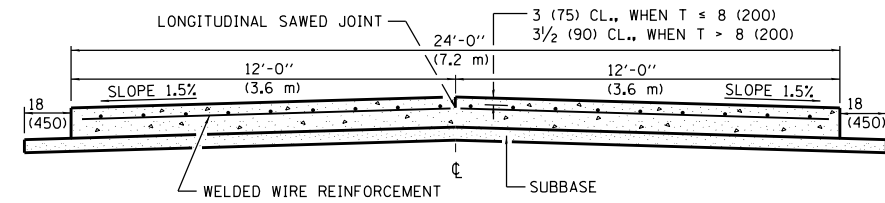


MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

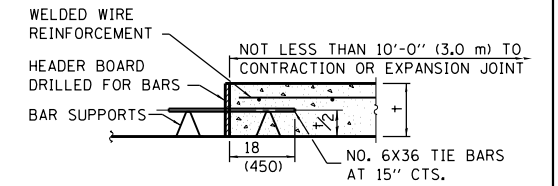
REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08

STD. 9-16

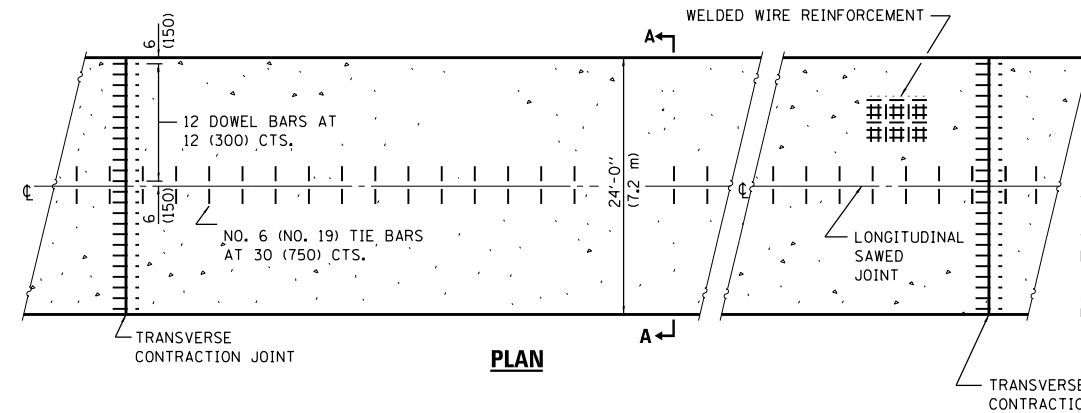
24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



SECTION A-A
(TYPICAL 2-LANE WITH SHOULDERS)



TRANSVERSE CONSTRUCTION JOINT



PLAN

GENERAL NOTES

SEE STANDARD 420001 FOR DETAILS NOT SHOWN.
SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
DRAWN	11-9-17



USER NAME = deterdingg
ESCA PROJECT NO. 1259.03
PLOT SCALE = 0.1667' / 1" = 1/6"
PLOT DATE = 4/25/2018

DESIGNED - KJK
DRAWN - KJK
CHECKED - JMS
DATE - 12/16

REVISED -
REVISED -
REVISED -
REVISED -

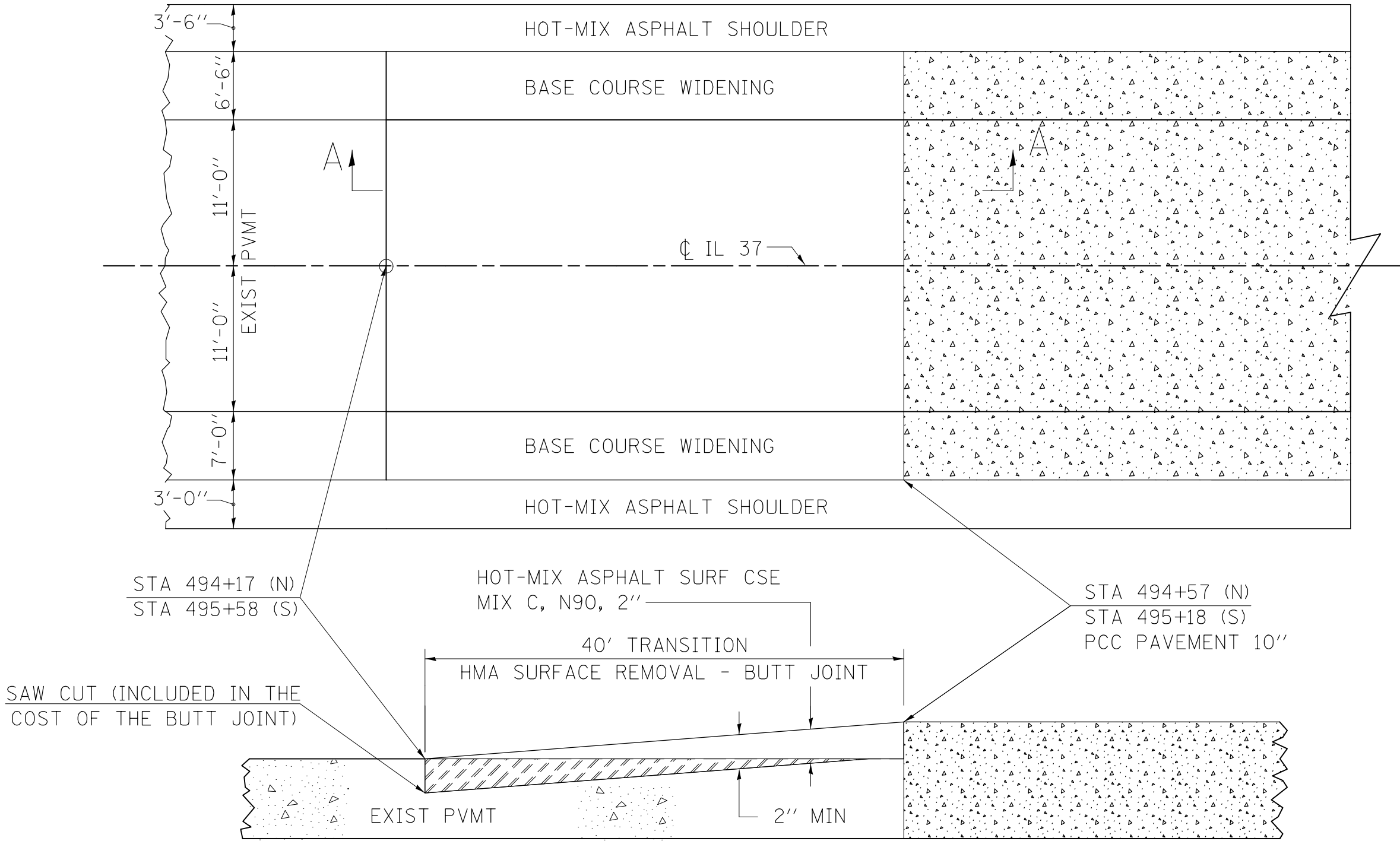
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEP CONSTRUCTION ON EXISTING FILL /
24' PCC PAVEMENT OVER BOX CULVERT

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	18
CONTRACT NO. 78326				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BUTT JOINT



PRINT DRIVER = L:\E-Books\Bates\9
 SCALE NAME = PLOT
 FILE NAME = 070206-wm-10-11-2017.dwg



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - JMS	REVISED -
PLOT DATE = 8/10/2017 10:56:09 AM	DATE - 07/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT DETAIL

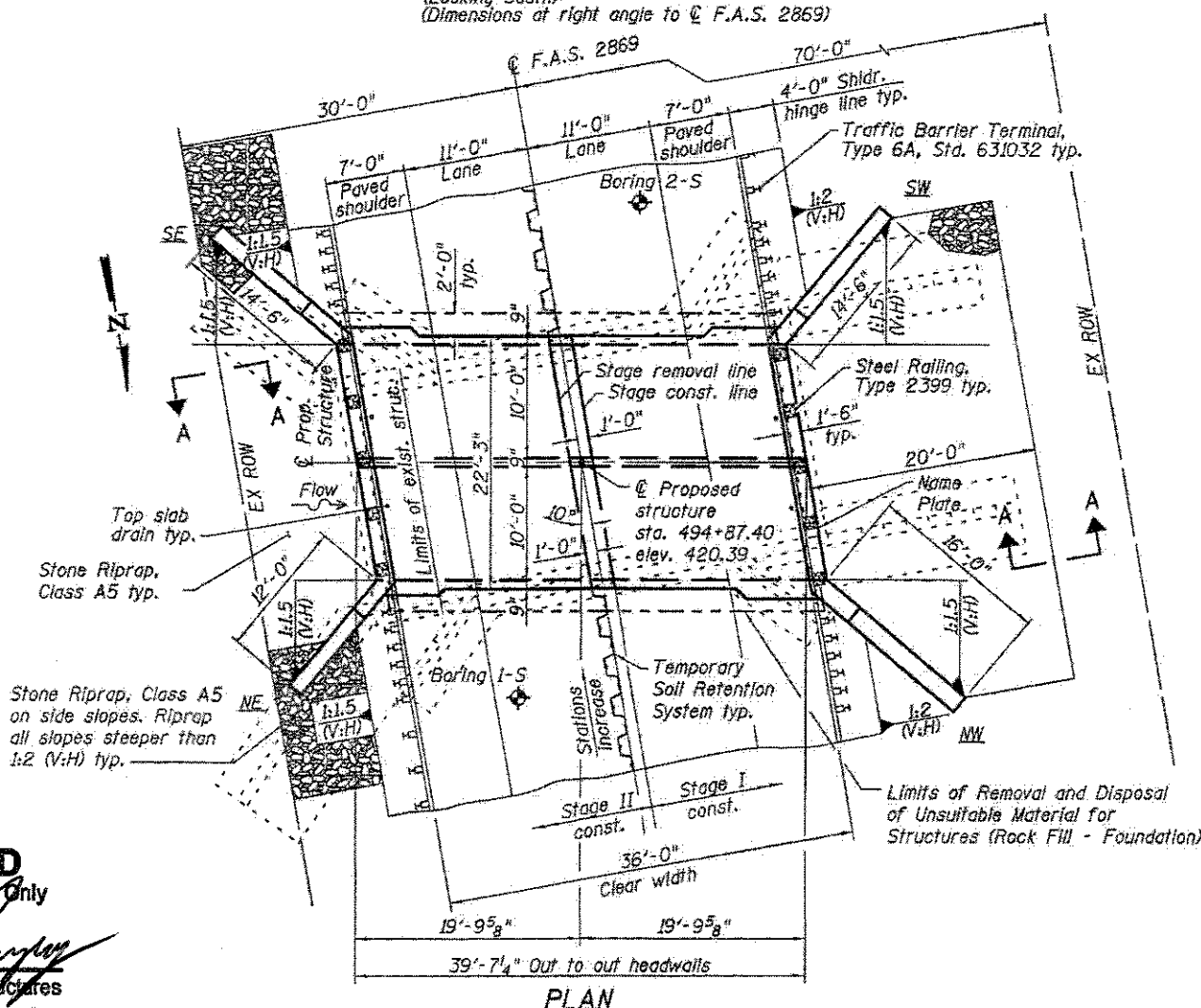
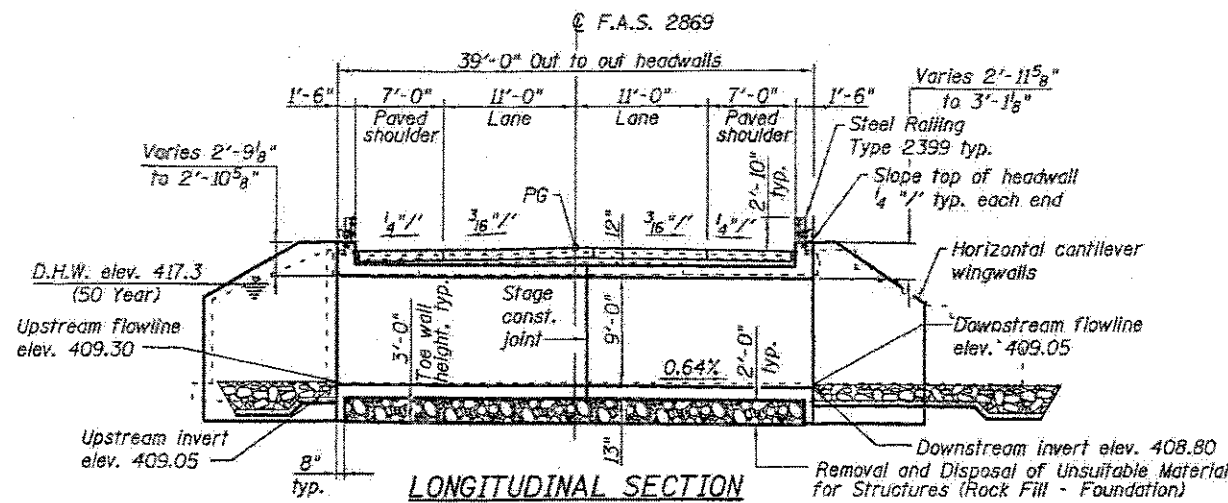
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	19
CONTRACT NO. 78326				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BENCHMARK: BM K216 - N.G.S. monument set in top of the SW end of the wingwall at the NW corner of SN 041-0093. Elev. 420.34.

EXISTING STRUCTURE:
SN 041-0093 was originally built in 1922 as Route 37, Section 2-B. It is a single-span reinforced concrete bridge that is 20'-0" long inside-face-to-inside-face of abutments. In 1952 it was widened to an out-to-out width of 40'-4". The structure has two 45 deg. wingwalls and two 90 deg. wingwalls. There is no skew. Traffic shall be maintained utilizing stage construction.

No salvage.



STRUCTURE INDEX OF SHEETS

General Plan	Sheet No. 1 of 11
General Data	Sheet No. 2 of 11
Stage Construction Details	Sheet No. 3 of 11
Temporary Concrete Barrier for Stage Construction	Sheet No. 4 of 11
Box Culvert Details	Sheet No. 5-8 of 11
Steel Railing, Type 2399	Sheet No. 9 of 11
Bar Splicer Assembly and Mechanical Splicer Details	Sheet No. 10 of 11
Boring Logs	Sheet No. 11 of 11

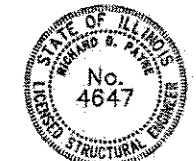
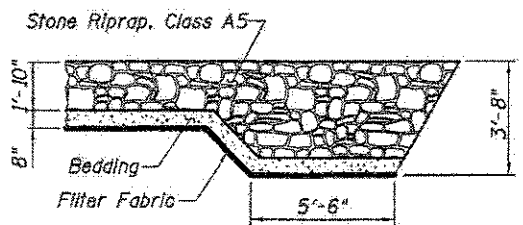
GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. Modify existing channel to match culvert at each end as directed by the Engineer. cost included in the pay item for Stone Riprap, Class A5.
4. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment of the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
5. Precast alternative is not allowed.

TOTAL BILL OF MATERIAL

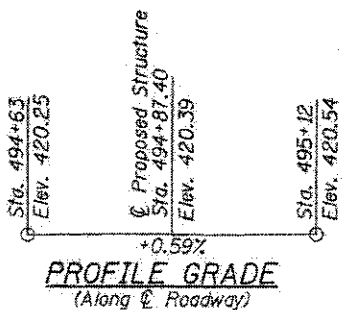
ITEM	UNIT	QUANTITY
Stone Riprap, Class A5	Sq. Yd.	200
Filter Fabric	Sq. Yd.	200
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material For Structures	Cu. Yd.	80
Reinforcement Bars, Epoxy Coated	Pound	30190
Bar Splicers	Each	122
Steel Railing, Type 2399	Foot	49
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	156.1
Porous Granular Embankment	Cu. Yd.	400
Rock Fill - Foundation	Ton	150
Temporary Soil Retention System	Sq. Ft.	280
Membrane Waterproofing System for Buried Structures	Sq. Yd.	116

See Roadway Plans for quantities of Temporary Concrete Barrier, Earth Excavation, and Pavement Removal



EXPIRES 11-30-18
SIGNATURE
04-25-18
DATE

APPROVED
For Structural Adequacy Only
De Carl Kump
Engineer of Bridges & Structures



WATERWAY INFORMATION

Drainage Area = 1.05 Sq. Mi. Exist. Low Grade Elev. = 419.94 Ft. @ Sta. 494+00
 Prop. Low Grade Elev. = 419.94 Ft. @ Sta. 494+00

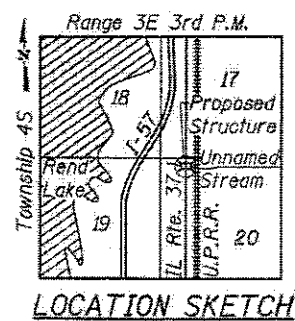
Flood	Freq. Yr.	Q C.F.S.	Opening - Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	636	118	151	416.6	0.7	0.3	417.3	416.9
Base	50	1060	134	165	417.3	2.0	1.0	419.3	418.3
Overtopping (Exist.)	100	1260	140	171	417.6	2.2	1.3	419.8	418.9
Overtopping (Prop.)	120	1325	142	-	417.7	2.3	-	420.0	-
Overtopping (Prop.)	320	1615	-	180	418.1	-	2.0	-	420.1

10 year velocity through existing bridge = 5.5 ft/s
 10 year velocity through proposed culvert = 4.9 ft/s

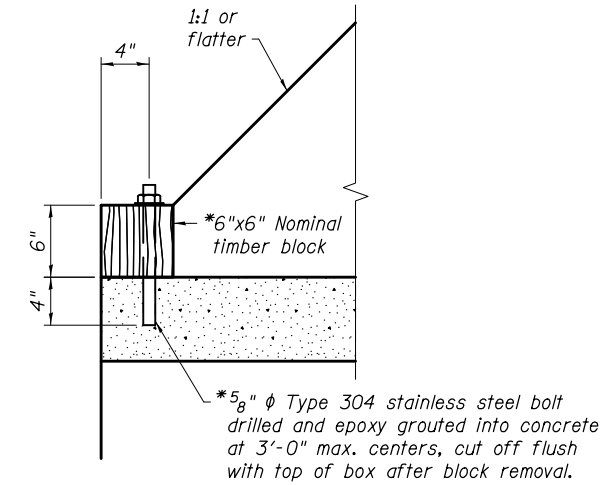
DESIGN SPECIFICATIONS
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2015 and 2016 Interims

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

LOADING HL-93
Allow 50 psf for future wearing surface.

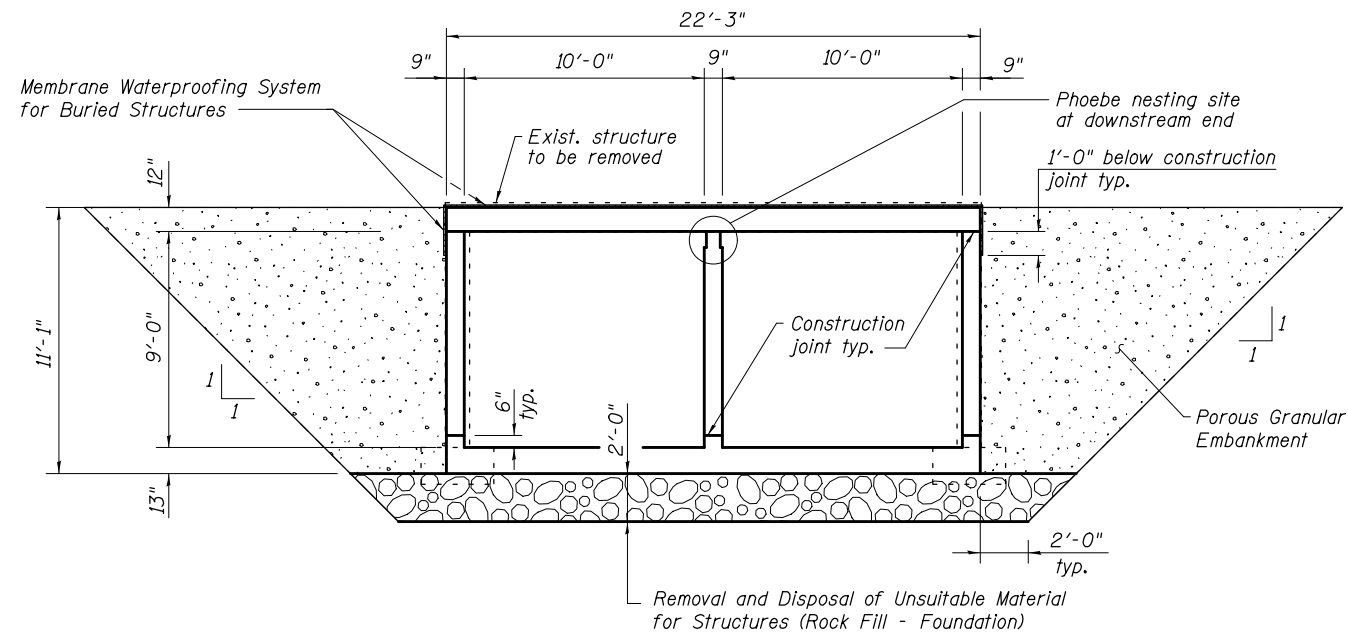


GENERAL PLAN
IL 37 OVER UNNAMED STREAM
FAS ROUTE 2869 - SECTION 2B-1
JEFFERSON COUNTY
STATION 494+87.40
STRUCTURE NO. 041-2020



* Cost of installation and removal included in Concrete Box Culverts

DETAIL 1



SECTION THROUGH BARREL
(Dimensions at rt. angle to barrel)

Membrane Waterproofing System for Buried Structures

Exist. structure to be removed

Phoebe nesting site at downstream end

1'-0" below construction joint typ.

Construction joint typ.

Porous Granular Embankment

Removal and Disposal of Unsuitable Material for Structures (Rock Fill - Foundation)

STATION 494+87.40
BUILT 201 BY
STATE OF ILLINOIS
F.A.S. RTE. 2869 SEC. 2B-1
LOADING HL-93
STR. NO. 041-2020

NAME PLATE
(See Std. 515001)

1. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
2. Excavation for construction of the box culvert, including the excavation necessary to construct the granular backfill, is included in Earth Excavation, see roadway plans.

PRINT DRIVER = L:\05-ESCA\2018\11-18-18\11-18-18.dwg
SCALE NAME = PLOT
SCALE VALUE = 1/8"=1'-0"
PLOT DATE = 4/25/2018 9:46:56 AM



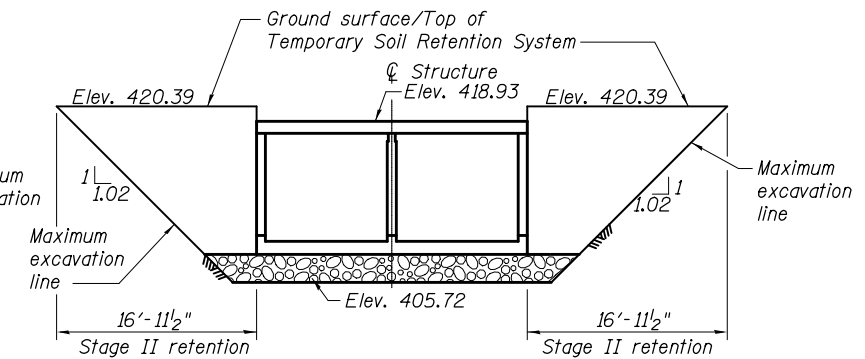
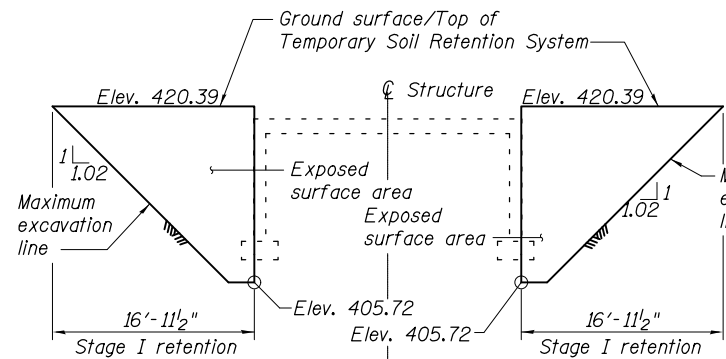
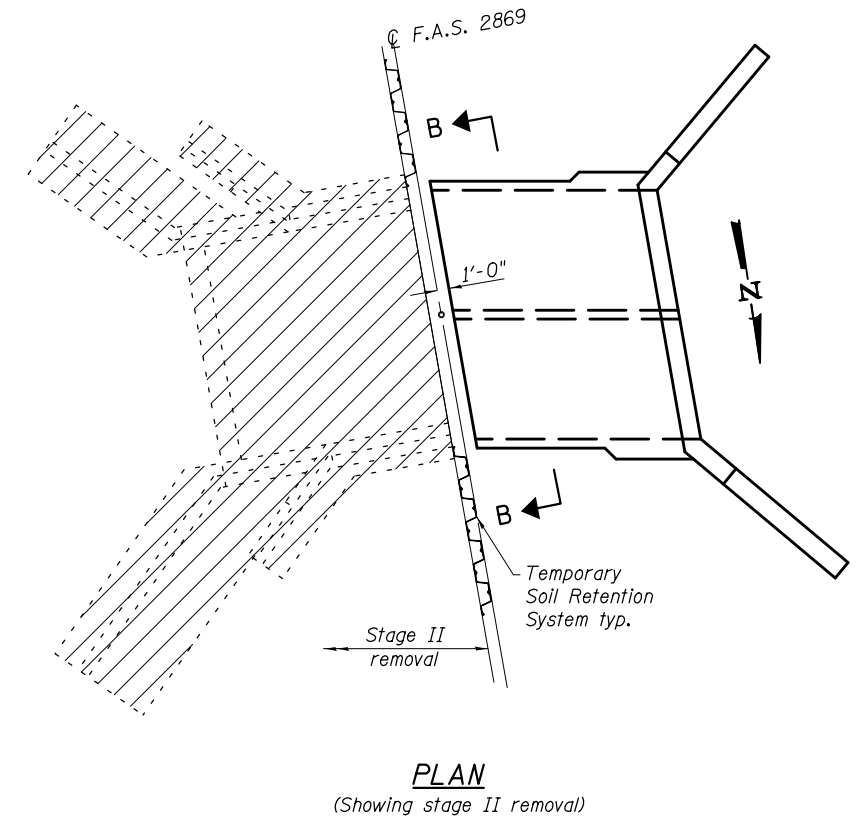
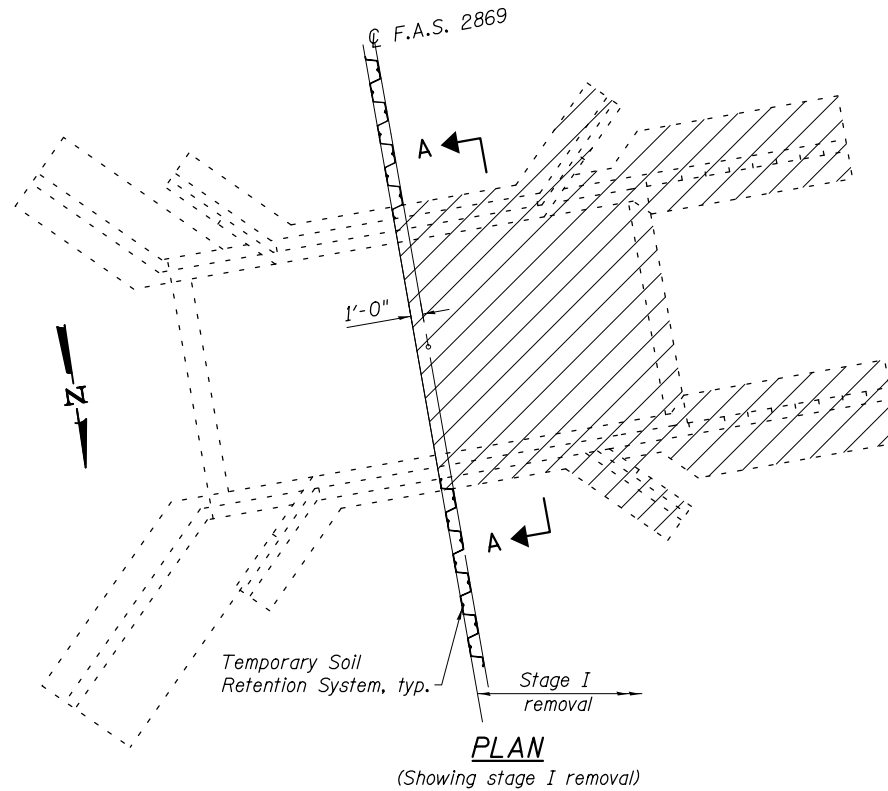
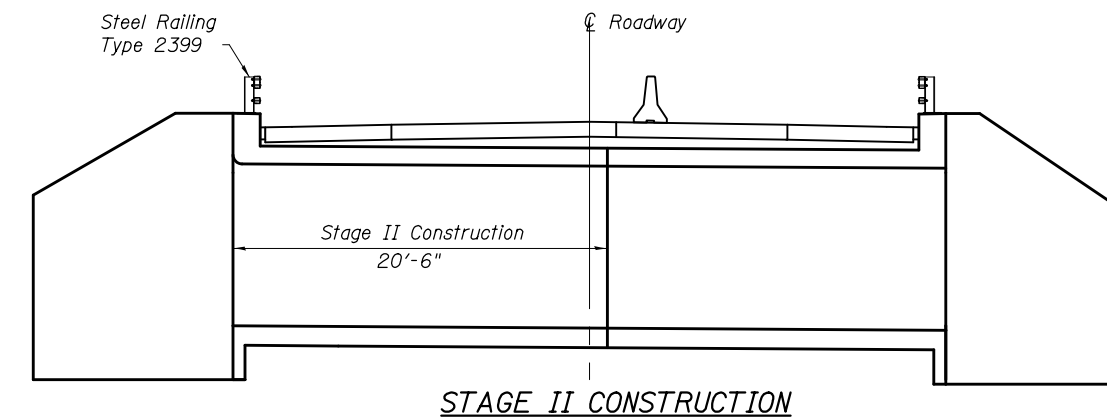
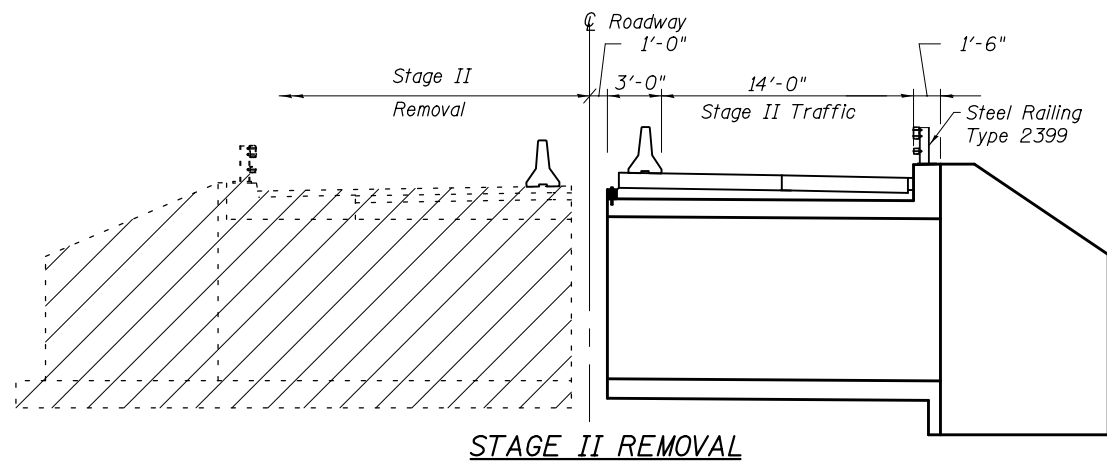
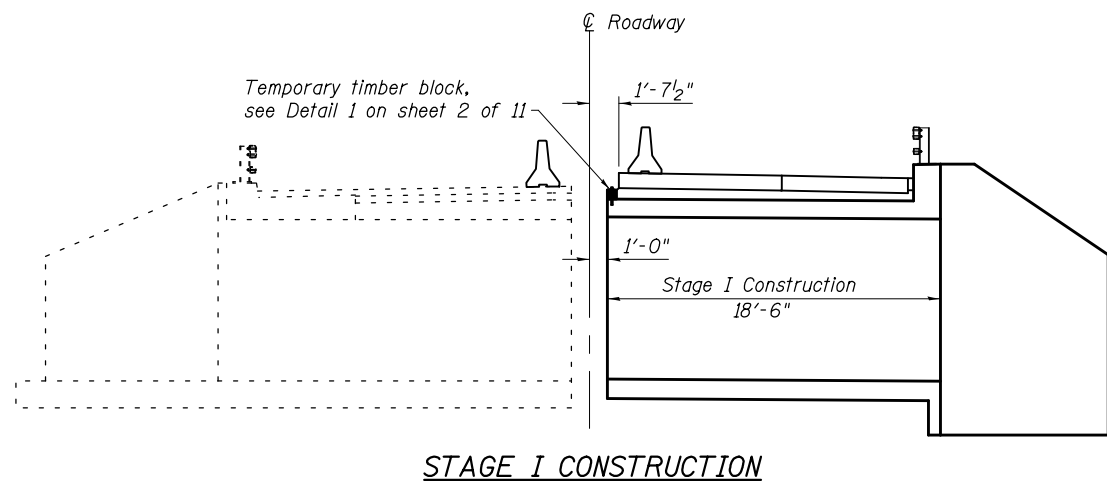
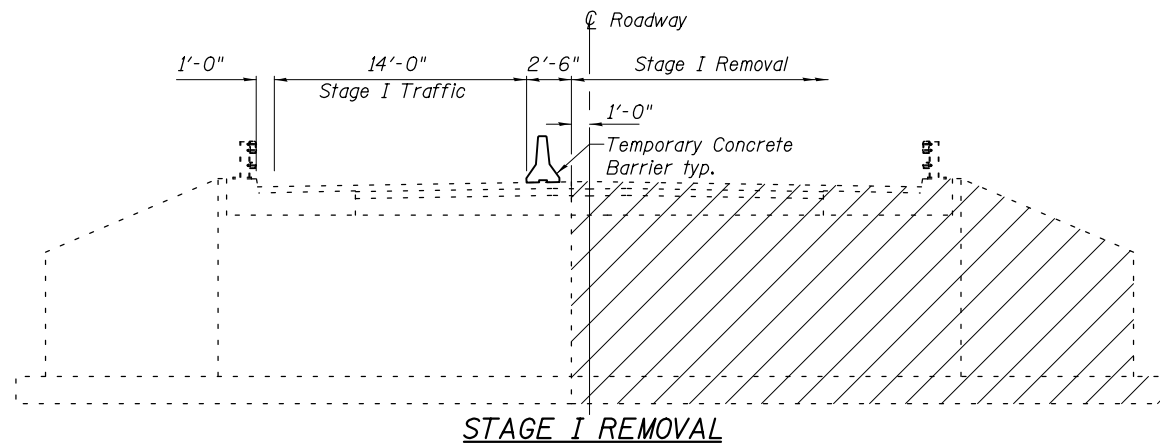
USER NAME = kja	DESIGNED - KJA	10/16	REVISED -
ESCA PROJECT NO. 1259.03	CHECKED - SHL/RDP	01/17	REVISED -
PLOT SCALE = 1/8" = 1'-0"	DRAWN - KJA	11/16	REVISED -
PLOT DATE = 4/25/2018 9:46:56 AM	CHECKED - ELH	04/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 041-2020**

SHEET NO. 2 OF 11 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	21
CONTRACT NO. 78326				
ILLINOIS FED. AID PROJECT				



STAGE CONSTRUCTION NOTES

1. All staging sections looking south.
2. Hatched areas indicate removal.
3. See Roadway plans for quantity of Temporary Concrete Barrier.
4. Dimensions are at right angle to Centerline Roadway unless noted otherwise.
5. Stage I traffic based on 09/18/2007 Structure Core Results and 02/07/2017 field check.
6. Removal of existing steel railing is included with Removal of Existing Structures.

TEMPORARY SOIL RETENTION SYSTEM

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. Existing structure details are taken from existing plans.
3. Dimensions and slopes are shown along the Temporary Soil Retention System unless noted otherwise.

PRINT DRIVER = L:\05\Bartley\9
 SCALE NAME = PLOT
 FILE NAME = ESCA\2017\2869.dwg



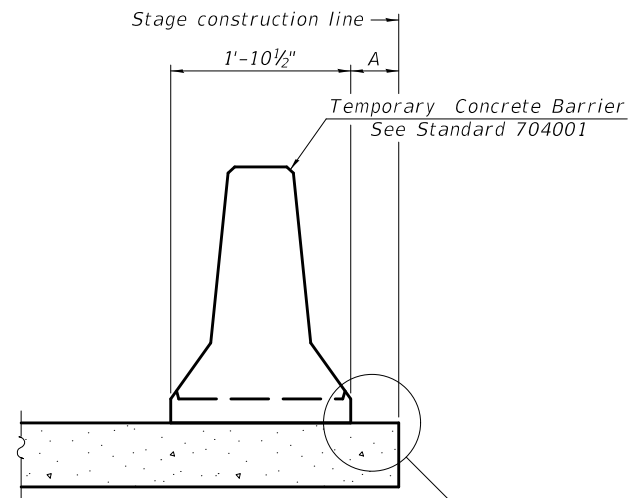
USER NAME = kjk	DESIGNED - KJA	10/16	REVISED -
ESCA PROJECT NO. 1259.03	CHECKED - SHL/RDP	01/17	REVISED -
PLOT SCALE = 0.2' = 1" on	DRAWN - KJA	11/16	REVISED -
PLOT DATE = 8/10/2017	CHECKED - ELH	04/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 041-2020

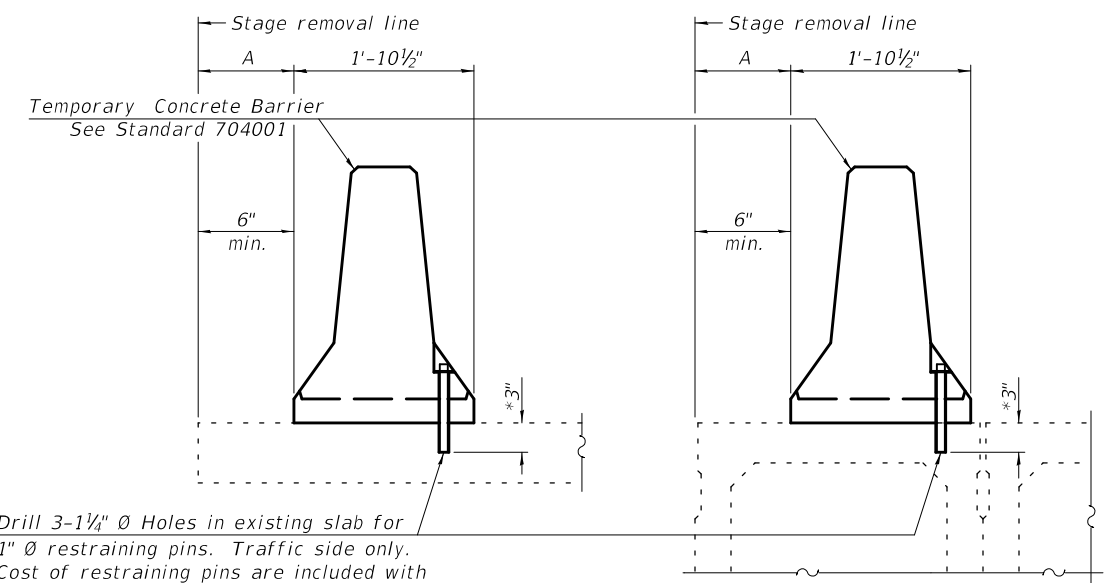
SHEET NO. 3 OF 11 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	22
CONTRACT NO. 78326				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1". See Detail I, II or III

NEW SLAB OR NEW DECK BEAM

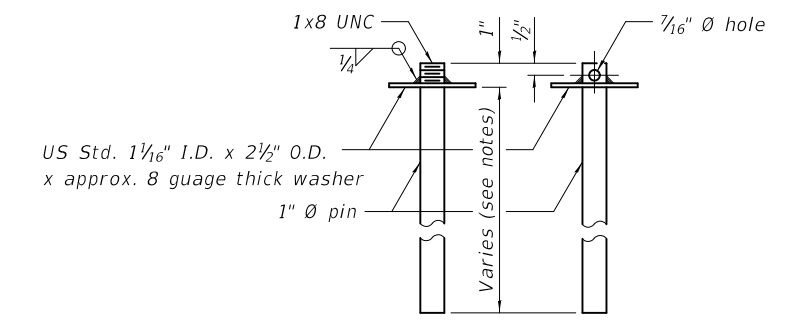


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

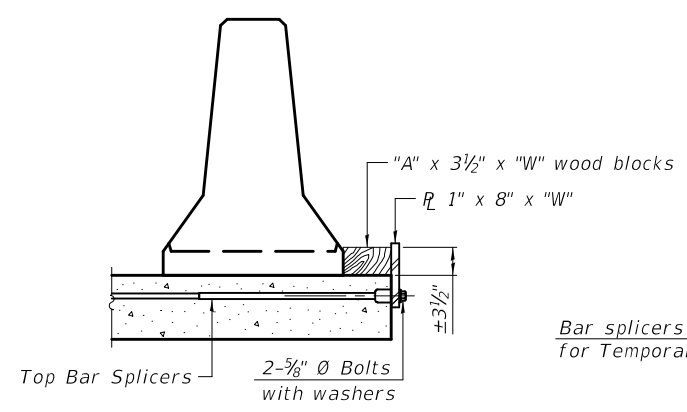
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

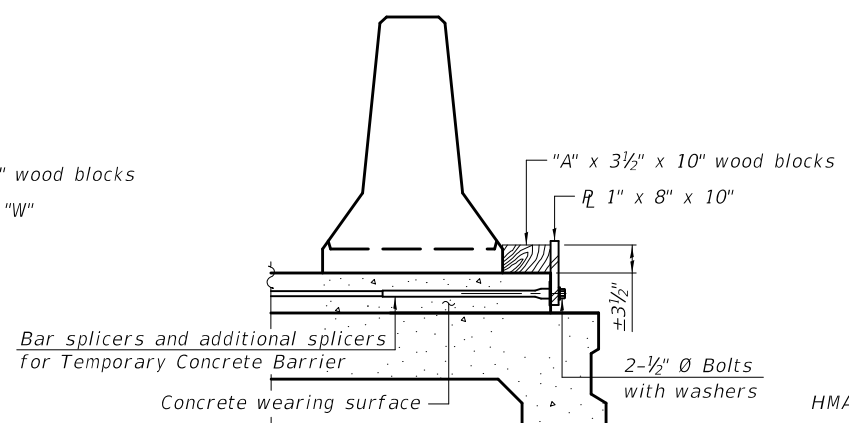


RESTRAINING PIN

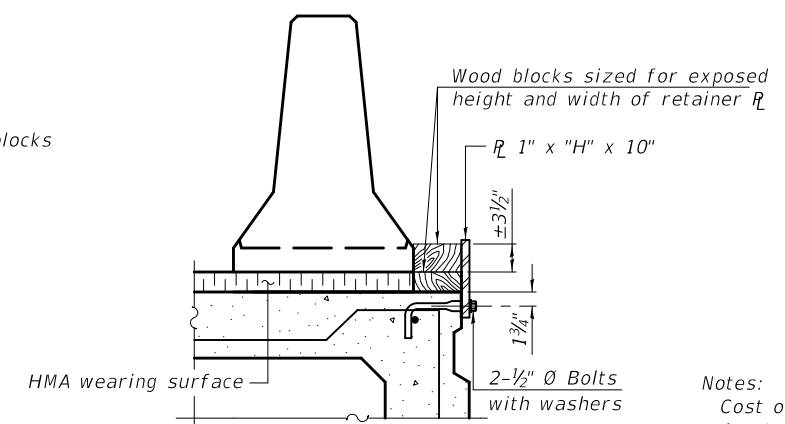
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



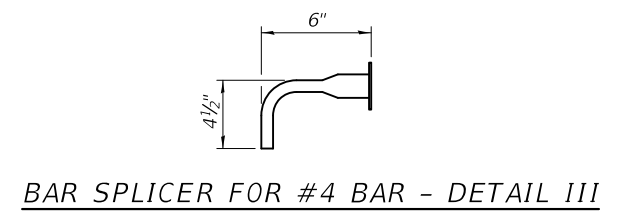
DETAIL I



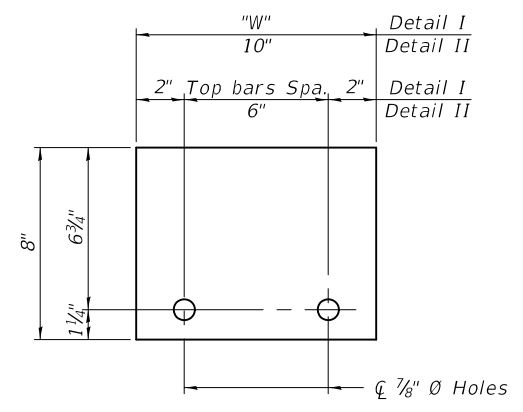
DETAIL II



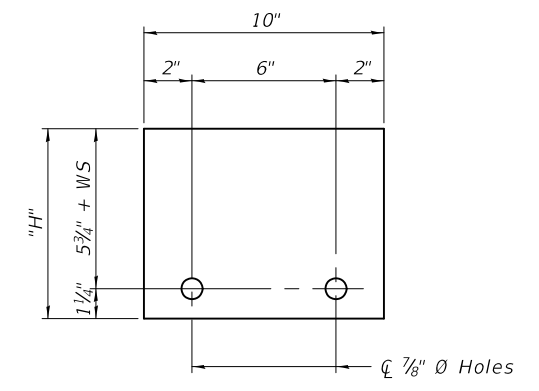
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R_L 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R_L 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.
 Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27 2-17-2017

PRINT DRIVER = L:\05-ESCA\14179
 PLOT DATE = 8/10/2017 11:12:53 AM
 PLOT SCALE = 0:2 '1" = 1"
 PLOT SIZE = 11x17
 PLOT ORIGIN = 0,0
 PLOT SCALE = 0:2 '1" = 1"
 PLOT SIZE = 11x17
 PLOT ORIGIN = 0,0



USER NAME = kjk	DESIGNED - KJA	10/16	REVISED -
ESCA PROJECT NO. 1259.03	CHECKED - SHL/RDP	01/17	REVISED -
PLOT SCALE = 0:2 '1" = 1"	DRAWN - KJA	11/16	REVISED -
PLOT DATE = 8/10/2017 11:12:53 AM	CHECKED - ELH	04/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 041-2020

SHEET NO. 4 OF 11 SHEETS

F.A.S. RTE. 2869	SECTION 2B-1	COUNTY JEFFERSON	TOTAL SHEETS 39	SHEET NO. 23
CONTRACT NO. 78326				
ILLINOIS FED. AID PROJECT				

*Dimensions shown are at right angle to C Roadway

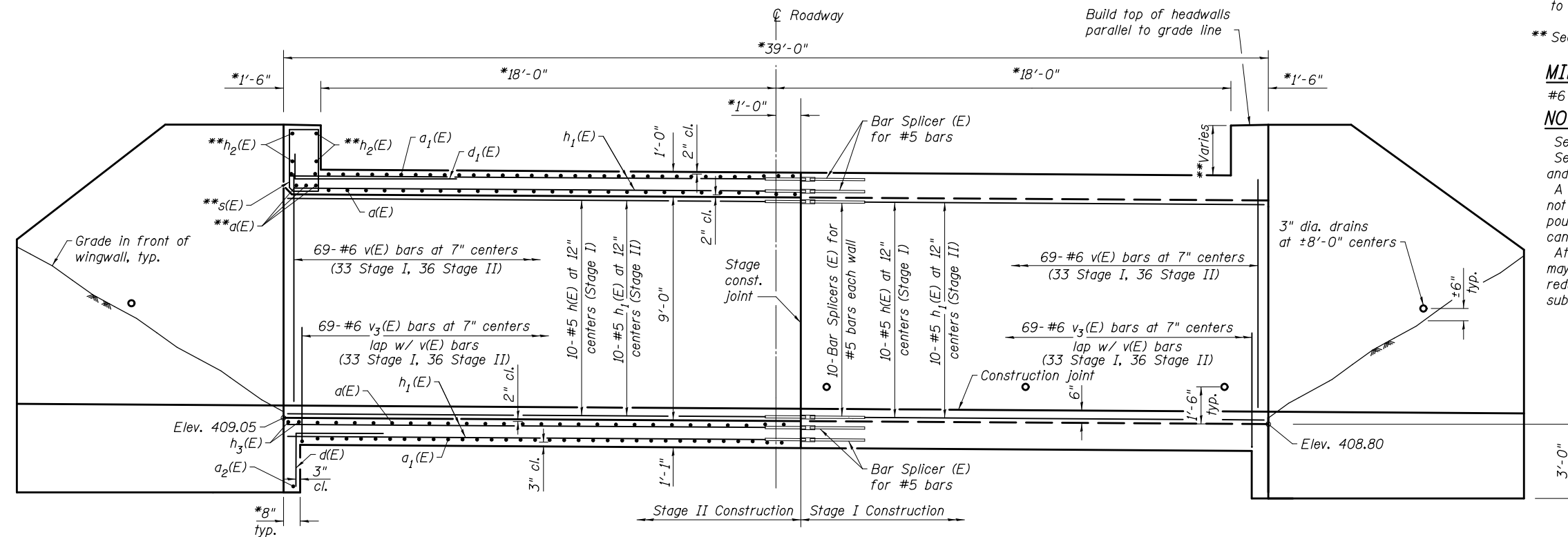
** See Headwall Details on sht. 8 of 11

MINIMUM BAR LAP

#6 bars = 3'-10"

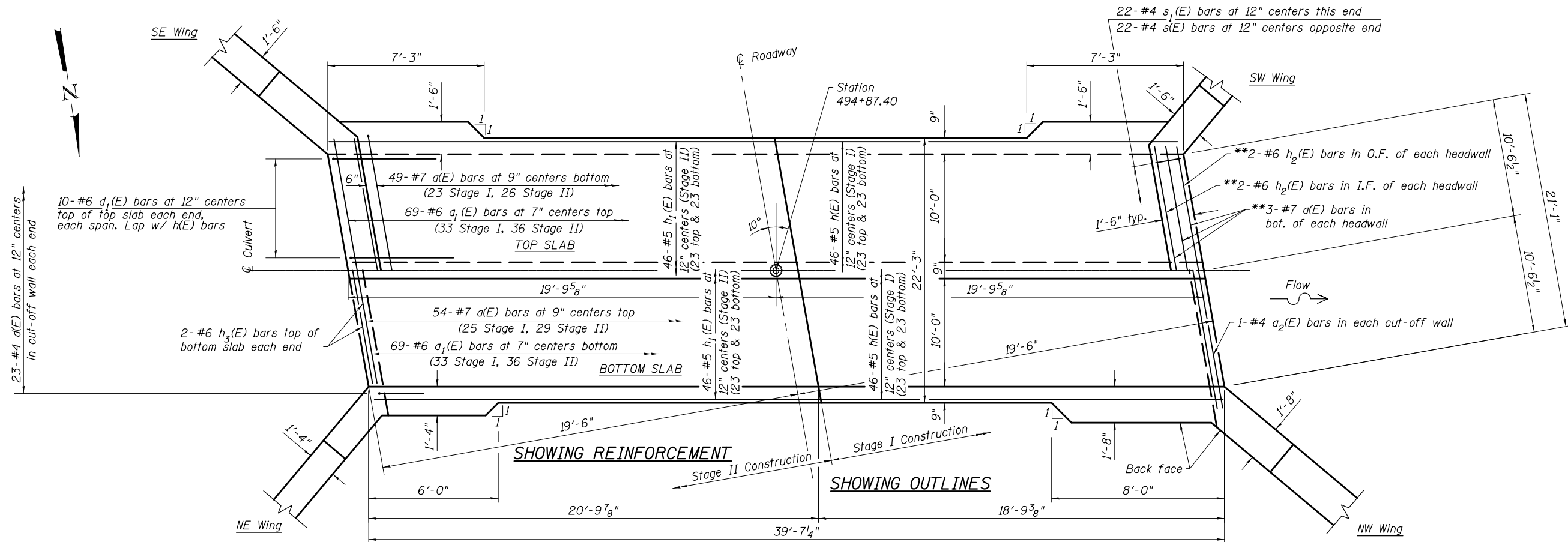
NOTES

See sheets 6 & 7 of 11 for wingwall details
 See sheet 8 of 11 for additional details and Bill of Materials
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the horizontal cantilever wingwalls.
 At the Contractor's option, a longer $v_3(E)$ bar may be ordered to replace the $v(E)$ bar. No reduction in quantities shall be made for this substitution.



HALF LONGITUDINAL SECTION
 (Showing bars in center wall)

HALF ELEVATION
 (Showing bars in outside walls)



PLAN

(Sheet 1 of 4)

PRINT DRIVER = L:\05-2017\1259\1259.dwg
 PLOT DATE = 8/10/2017 11:14:44 AM
 SCALE NAME = 1/8" = 1'-0"



USER NAME = kjk
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = 0.2 '1" = 1'-0"
 PLOT DATE = 8/10/2017 11:14:44 AM

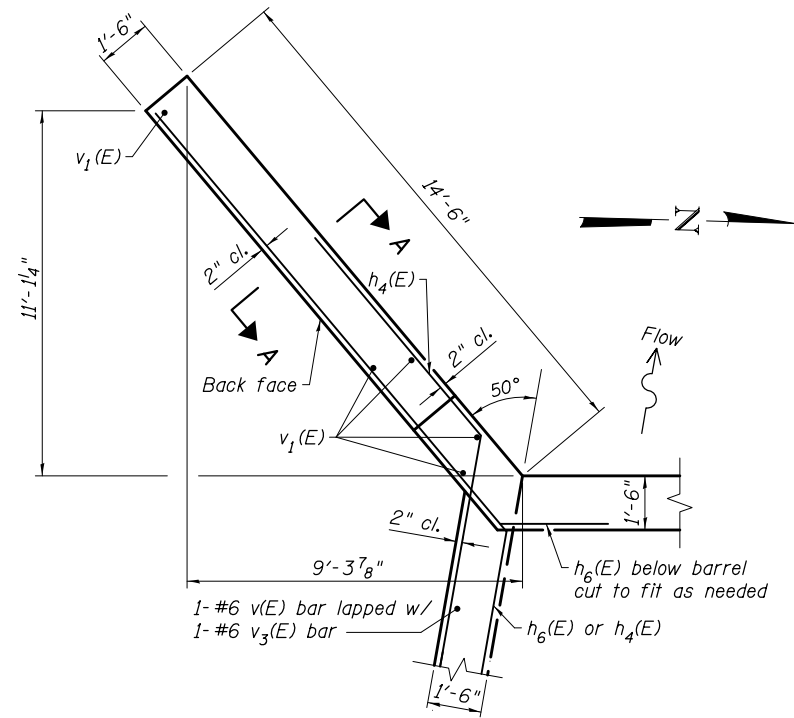
DESIGNED - KJA	10/16	REVISED -
CHECKED - SHL/RDP	01/17	REVISED -
DRAWN - KJA	11/16	REVISED -
CHECKED - ELH	07/17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

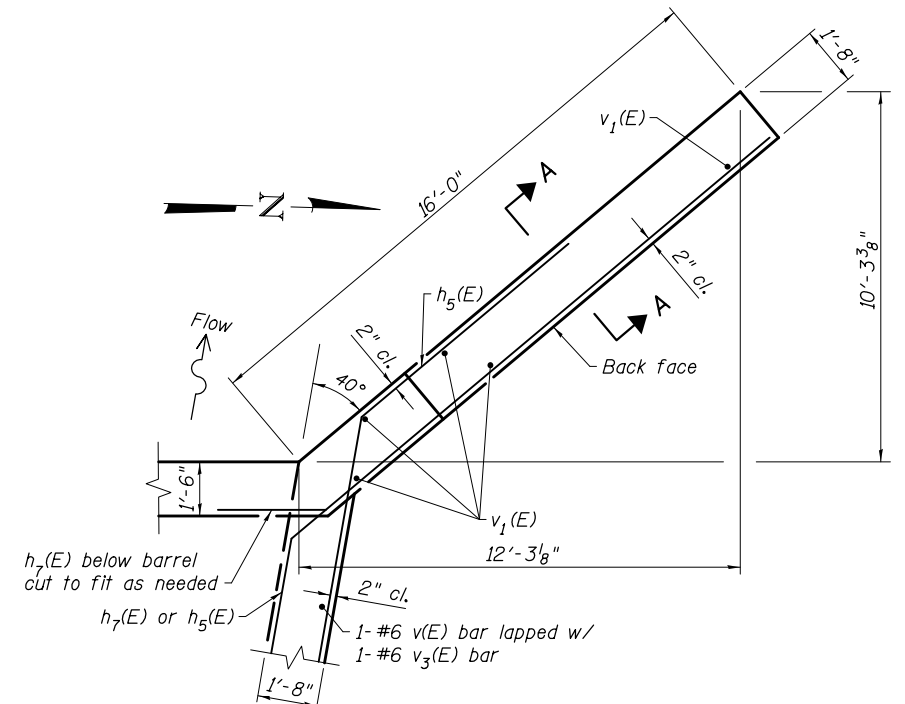
BOX CULVERT DETAILS
 STRUCTURE NO. 041-2020

SHEET NO. 5 OF 11 SHEETS

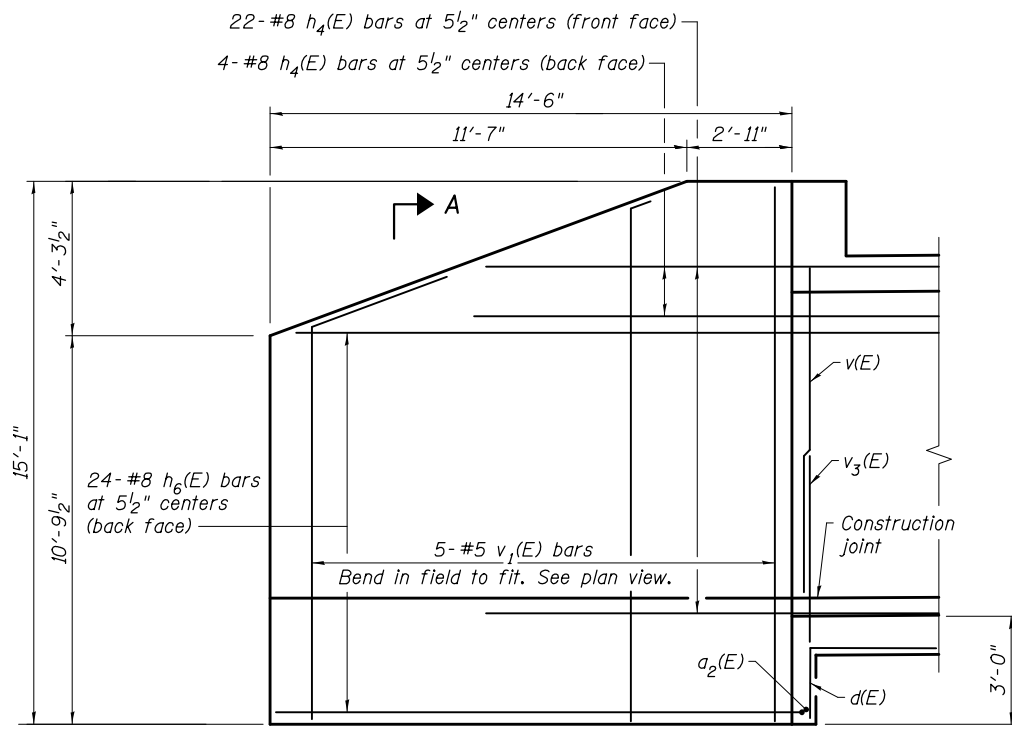
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	24
CONTRACT NO. 78326				
ILLINOIS FED. AID PROJECT				



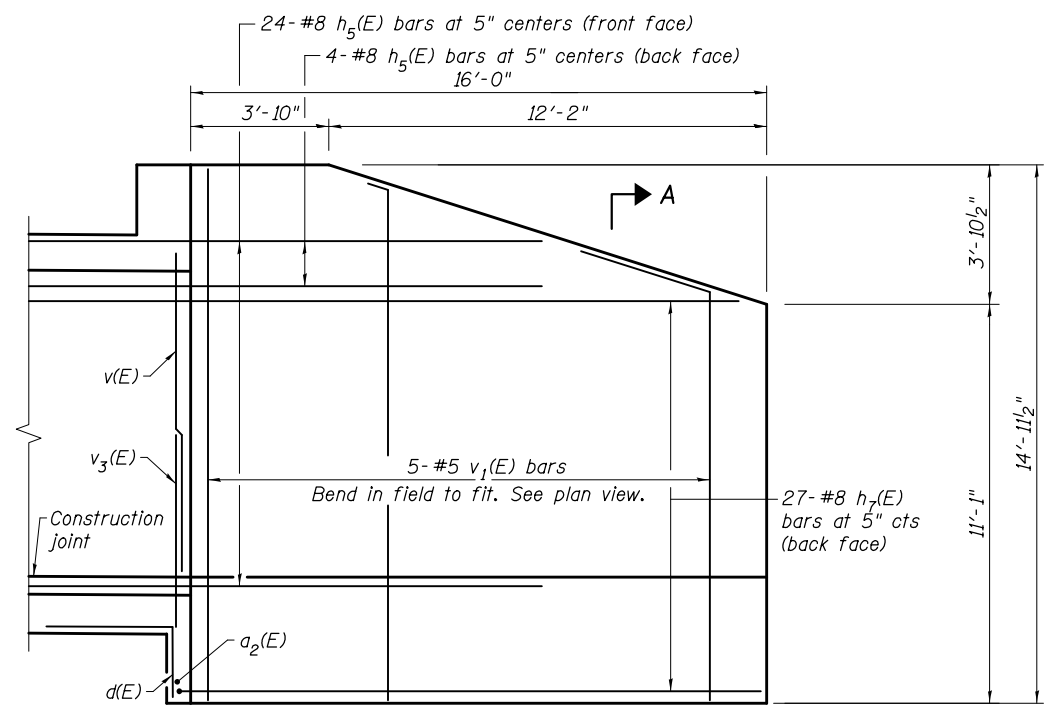
SOUTHWEST WALL PLAN



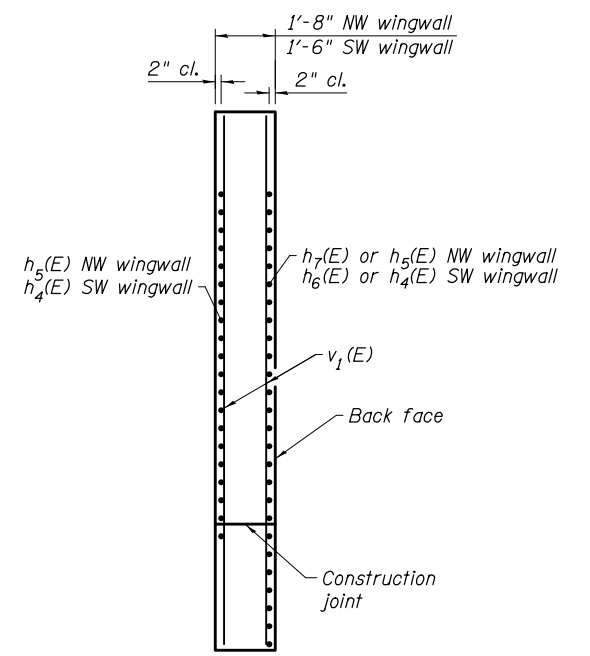
NORTHWEST WALL PLAN



SOUTHWEST WALL ELEVATION



NORTHWEST WALL ELEVATION



SECTION A-A

(Sheet 2 of 4)

PRINT DRIVER = L:\E-Books\111544.dwg
 PLOT SCALE = 1/8" = 1'-0"
 PLOT DATE = 8/10/2017 11:15:44 AM



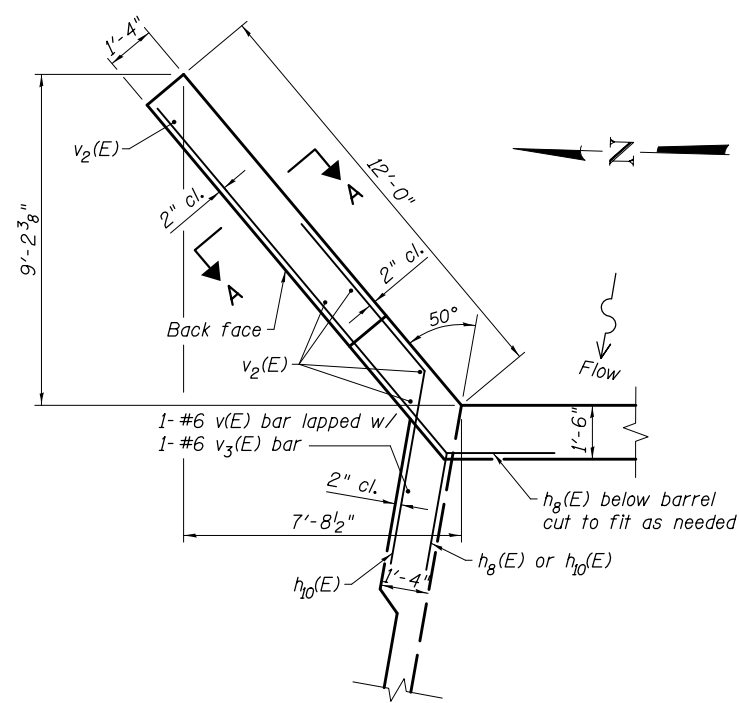
USER NAME = kjk	DESIGNED - KJA 10/16	REVISED -
ESCA PROJECT NO. 1259.03	CHECKED - SHL/RDP 01/17	REVISED -
PLOT SCALE = 0.2 ' / in.	DRAWN - KJA 11/16	REVISED -
PLOT DATE = 8/10/2017 11:15:44 AM	CHECKED - ELH 07/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

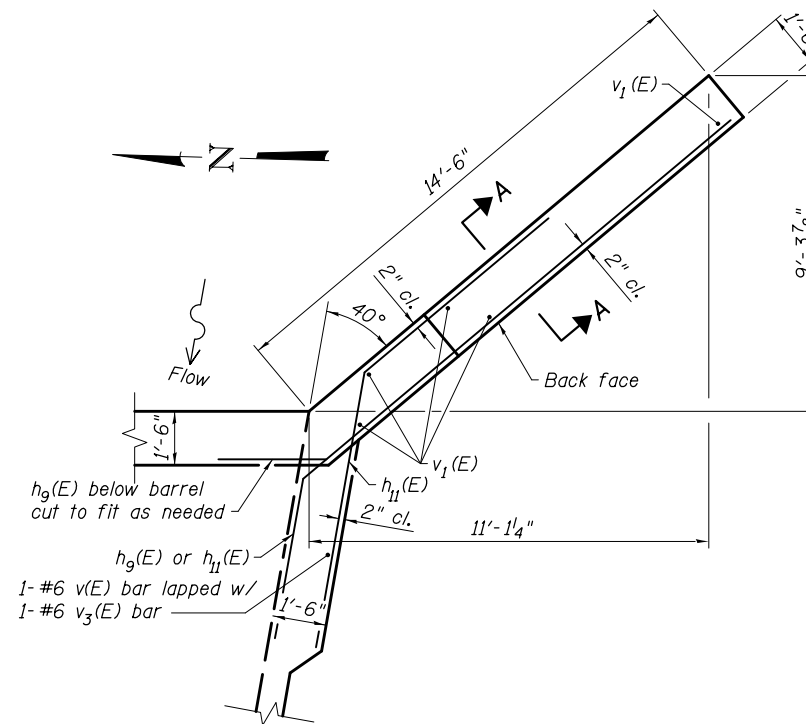
**BOX CULVERT DETAILS
STRUCTURE NO. 041-2020**

SHEET NO. 6 OF 11 SHEETS

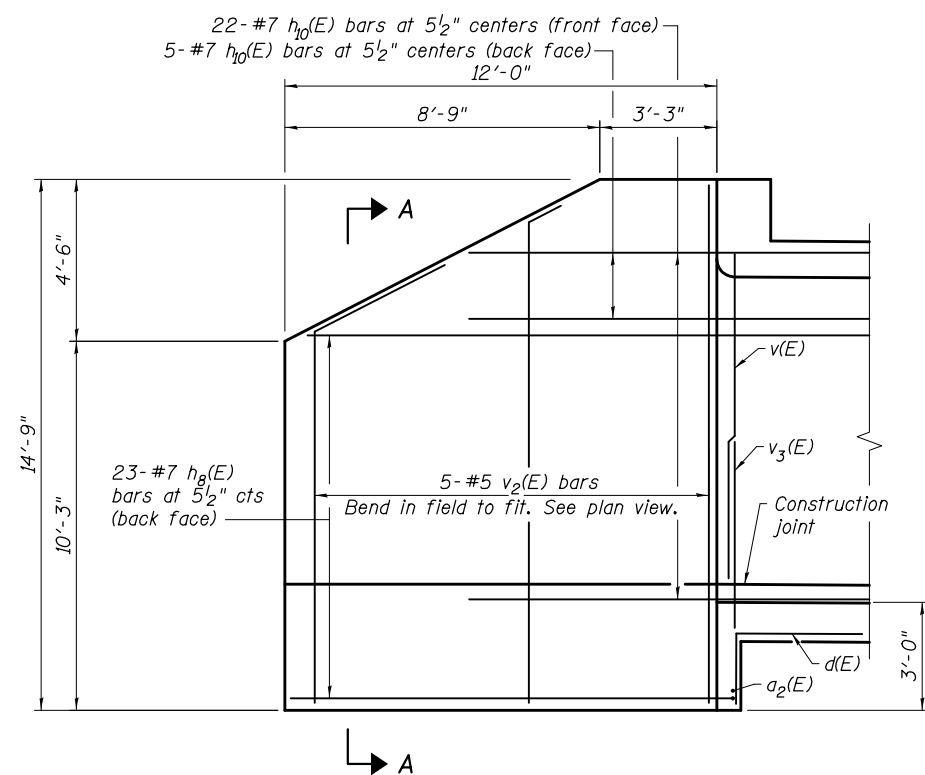
F.A.S. RTE. 2869	SECTION 2B-1	COUNTY JEFFERSON	TOTAL SHEETS 39	SHEET NO. 25
CONTRACT NO. 78326				
ILLINOIS FED. AID PROJECT				



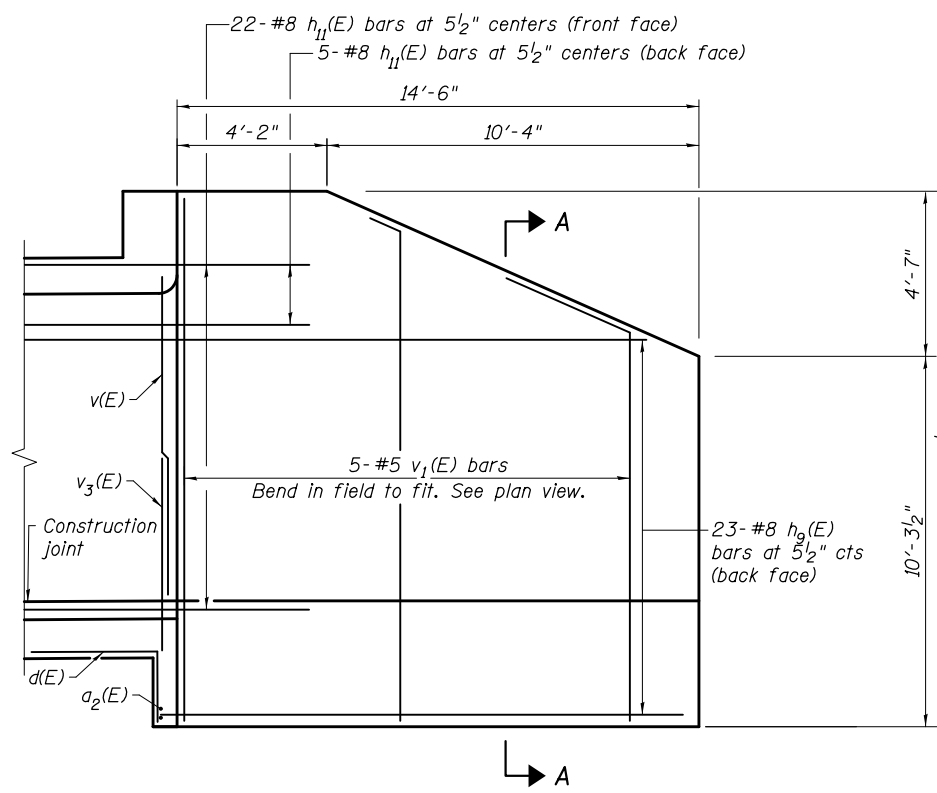
NORTHEAST WALL PLAN



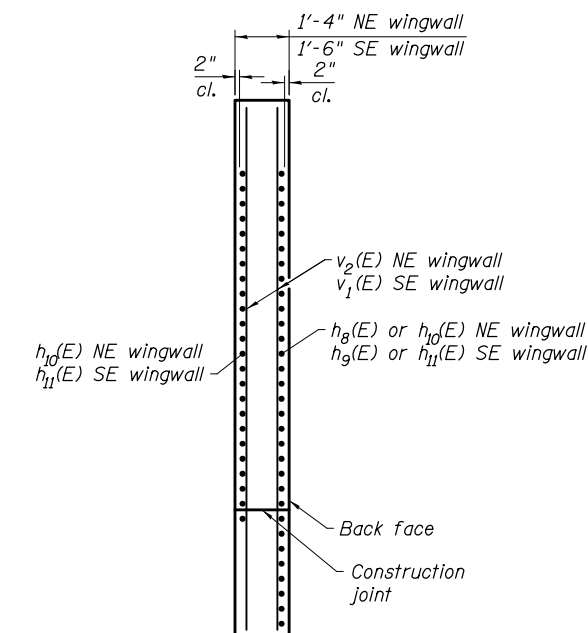
SOUTHEAST WALL PLAN



NORTHEAST WALL ELEVATION



SOUTHEAST WALL ELEVATION



SECTION A-A

(Sheet 3 of 4)

PRINT DRIVER = L:\05-2017\1259\03\1259-03.dwg
 PLOT SCALE = 0:2 '1" / in.
 PLOT DATE = 8/10/2017 11:16:13 AM



USER NAME = kjk
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = 0:2 '1" / in.
 PLOT DATE = 8/10/2017 11:16:13 AM

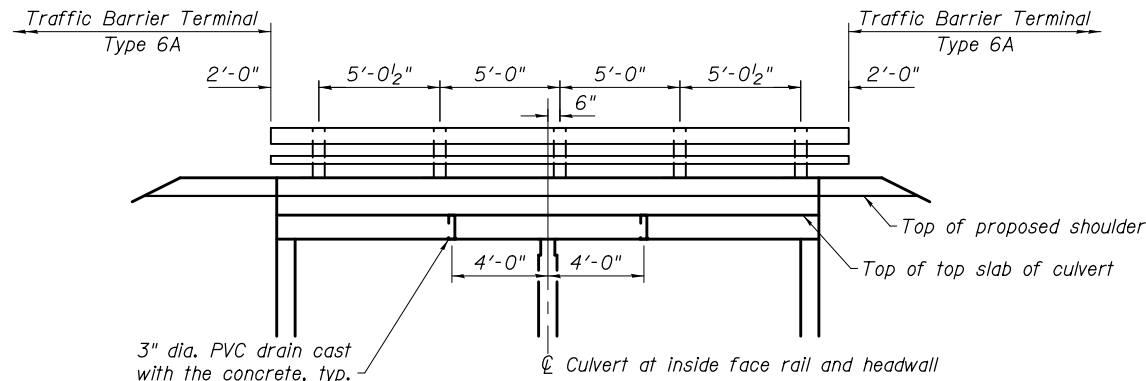
DESIGNED -	KJA	10/16	REVISED -
CHECKED -	SHL/RDP	01/17	REVISED -
DRAWN -	KJA	11/16	REVISED -
CHECKED -	ELH	07/17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

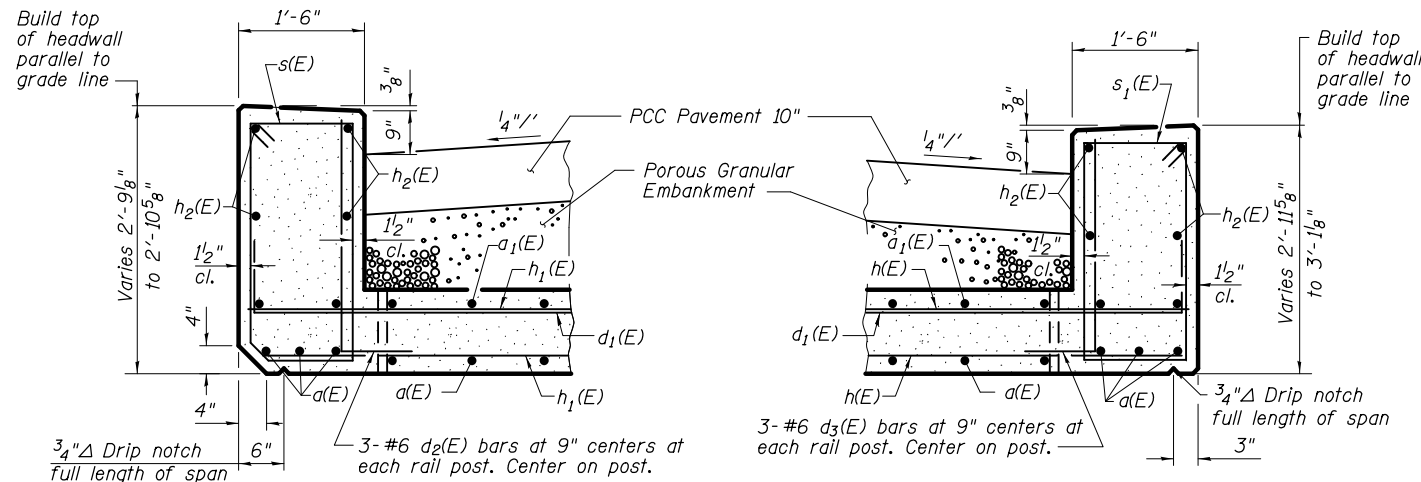
BOX CULVERT DETAILS
 STRUCTURE NO. 041-2020

SHEET NO. 7 OF 11 SHEETS

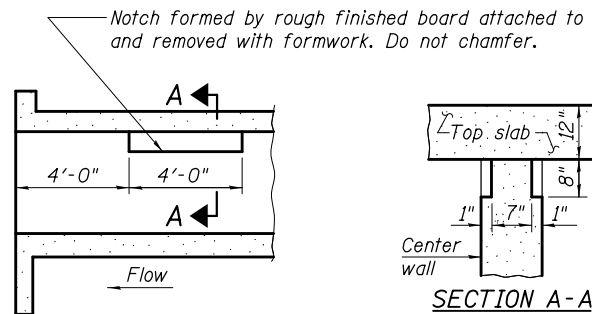
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	26
CONTRACT NO. 78326				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF RAILING
(Dimensions along inside face of rail and headwall)

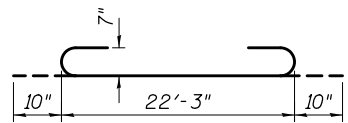


HEADWALL DETAILS
AT UPSTREAM END AT DOWNSTREAM END



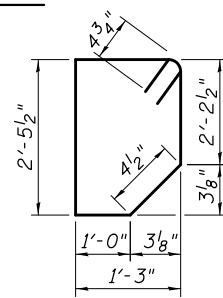
LONGITUDINAL SECTION
PHOEBE NESTING SITE DETAILS
(Downstream end only)

BAR	A	B
d(E)	1'-9"	2'-8"
d1(E)	2'-0"	6'-6"
d2(E)	1'-0"	2'-6"
d3(E)	1'-0"	2'-9"
v3(E)	1'-0"	5'-4"

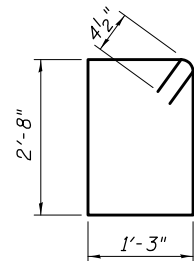


BAR d(E)

BARS d(E), d1(E), d2(E), d3(E), v3(E)

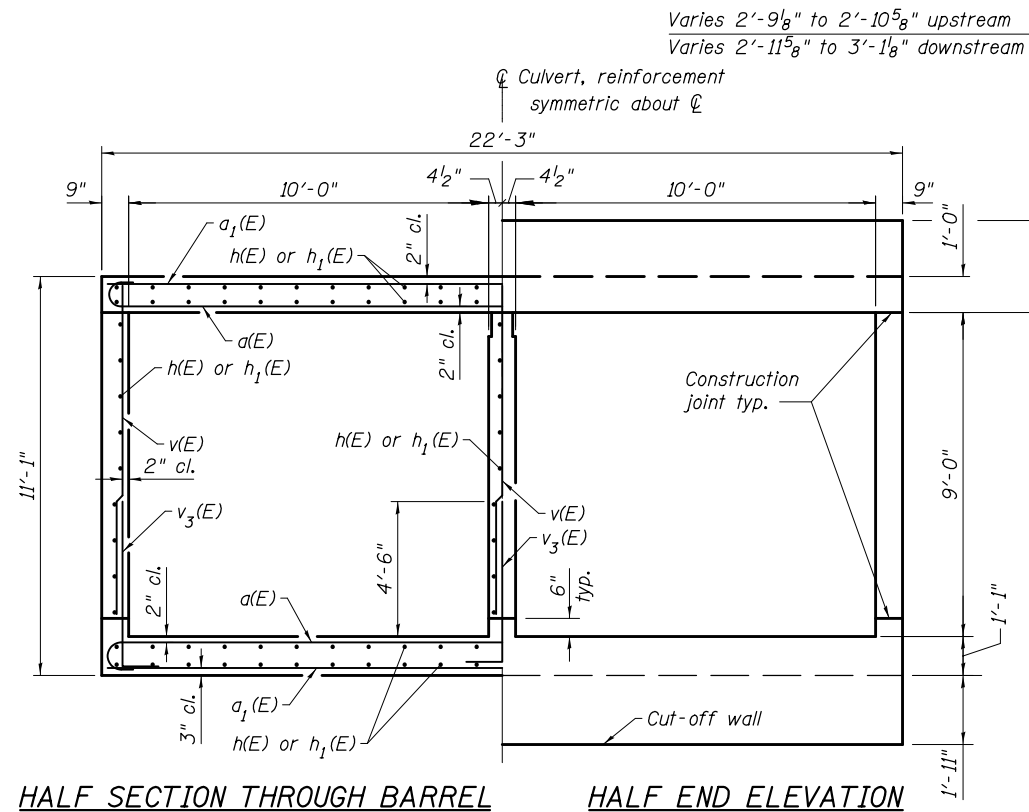


BAR s(E)



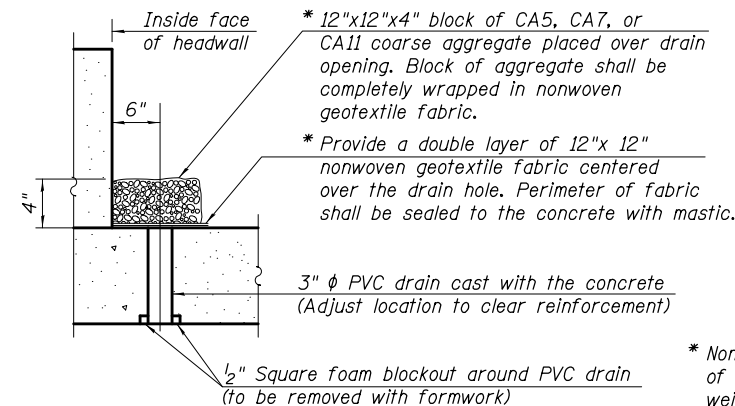
BAR s1(E)

BARS h4(E), h5(E), h6(E), h7(E), h8(E), h9(E), h10(E), h11(E)



SECTION THROUGH BARREL
HALF END ELEVATION

SECTION THROUGH BARREL
(Dimensions at rt. angle to barrel)



DRAIN DETAIL

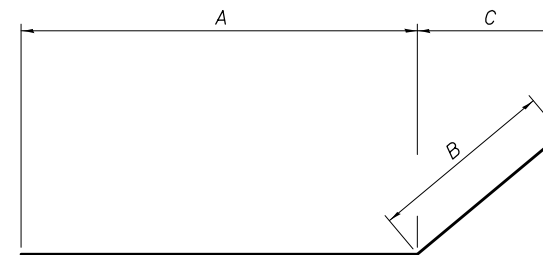
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	109	#7	23'-11"	U
a1(E)	138	#6	22'-3"	U
a2(E)	2	#4	22'-3"	U
d(E)	46	#4	4'-5"	U
d1(E)	40	#6	8'-6"	U
d2(E)	15	#6	3'-6"	U
d3(E)	15	#6	3'-9"	U
h(E)	122	#5	18'-6"	U
h1(E)	122	#5	20'-6"	U
h2(E)	8	#6	21'-6"	U
h3(E)	4	#6	21'-8"	U
h4(E)	26	#8	14'-6"	U
h5(E)	28	#8	16'-0"	U
h6(E)	24	#8	19'-8"	U
h7(E)	27	#8	20'-10"	U
h8(E)	23	#7	16'-6"	U
h9(E)	23	#8	19'-2"	U
h10(E)	27	#7	11'-6"	U
h11(E)	27	#8	14'-5"	U
s(E)	22	#4	8'-1"	D
s1(E)	22	#4	8'-7"	D
v(E)	211	#6	9'-2"	U
v1(E)	15	#5	14'-8"	U
v2(E)	5	#5	14'-4"	U
v3(E)	211	#6	6'-4"	U
Concrete Box Culverts			Cu. Yd.	156.1
Reinforcement Bars, Epoxy Coated			Pound	30190

BAR	A	B	C
h4(E)	7'-2"	7'-4"	4'-8 1/2"
h5(E)	7'-6"	8'-6"	6'-6 1/2"
h6(E)	14'-10"	4'-10"	3'-1 1/4"
h7(E)	16'-0"	4'-10"	3'-8 3/8"
h8(E)	12'-6"	4'-0"	2'-6 3/8"
h9(E)	14'-8"	4'-6"	3'-5 3/8"
h10(E)	5'-4"	6'-2"	3'-11 1/2"
h11(E)	6'-8"	7'-9"	5'-11 1/4"



(Sheet 4 of 4)

PRINT DRIVER = L:\05-ESCA\Bates\9
SCALE NAME = PLOT
PLOT DATE = 8/10/2017



USER NAME = kjk	DESIGNED - KJA	10/16	REVISED -
ESCA PROJECT NO. 1259.03	CHECKED - SHL/RDP	01/17	REVISED -
PLOT SCALE = 0.2" = 1' = 1/8"	DRAWN - KJA	11/16	REVISED -
PLOT DATE = 8/10/2017	CHECKED - ELH	07/17	REVISED -

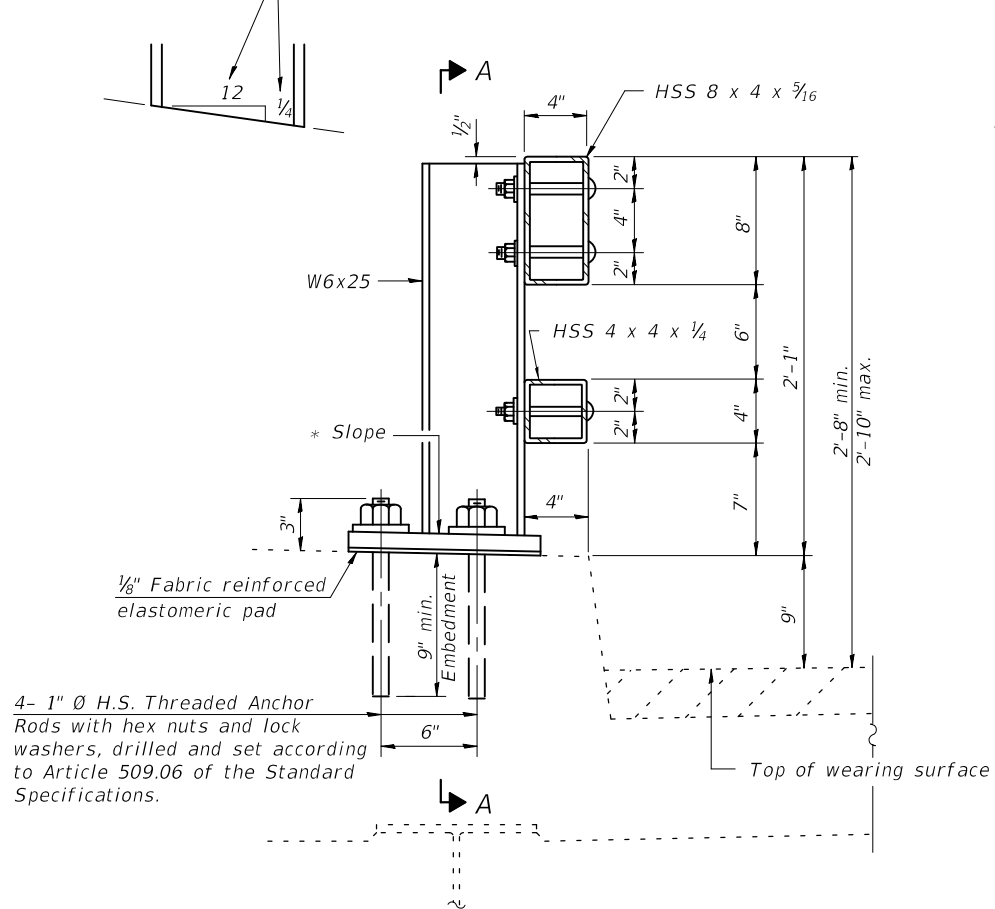
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
STRUCTURE NO. 041-2020

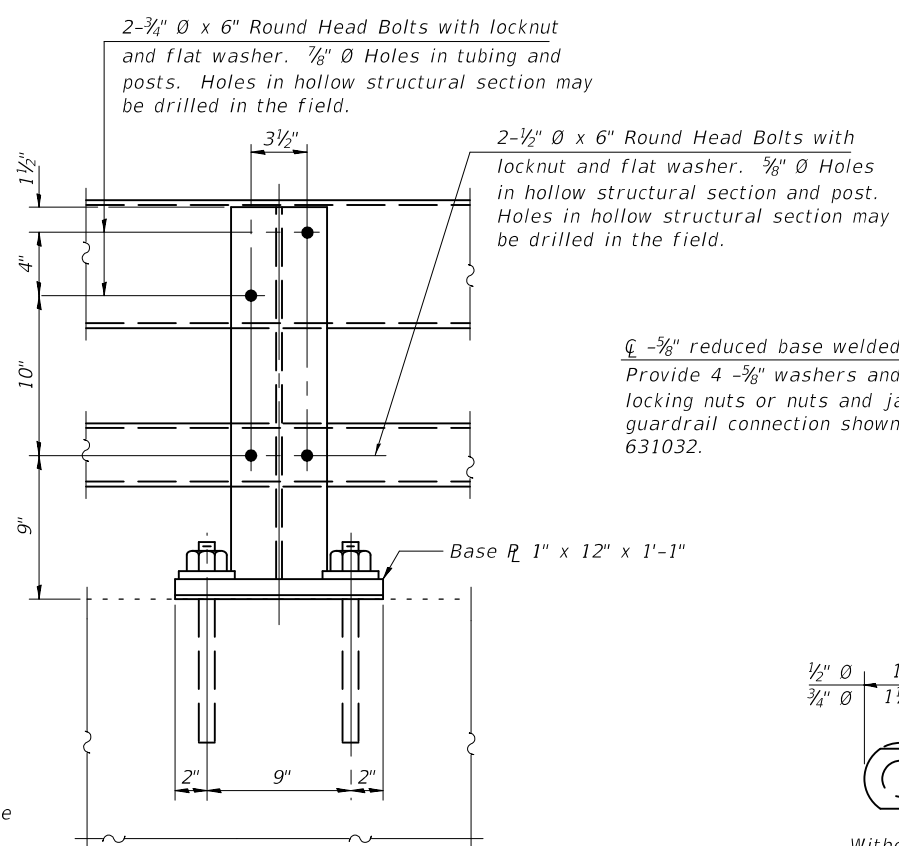
SHEET NO. 8 OF 11 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	27
CONTRACT NO. 78326				
ILLINOIS FED. AID PROJECT				

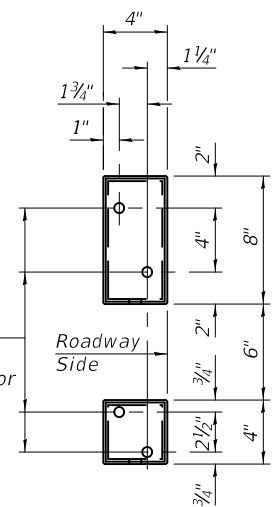
* Cut bottom end of post to curb slope.



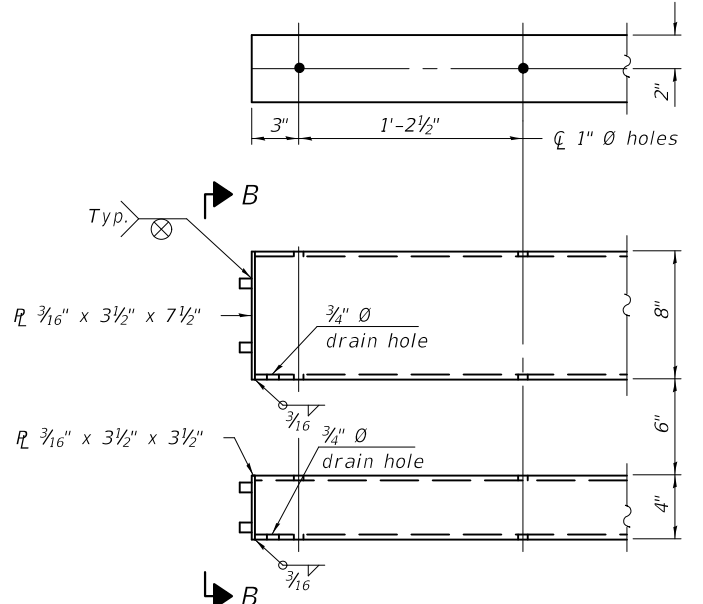
SECTION AT RAIL POST



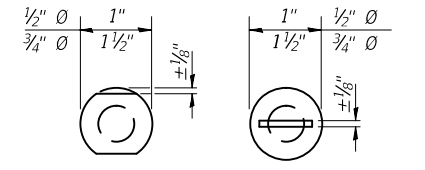
SECTION A-A



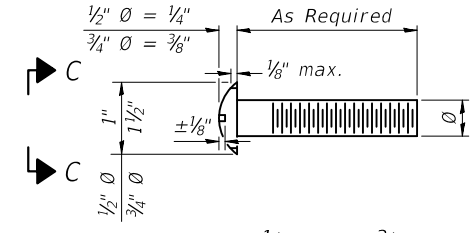
VIEW B-B



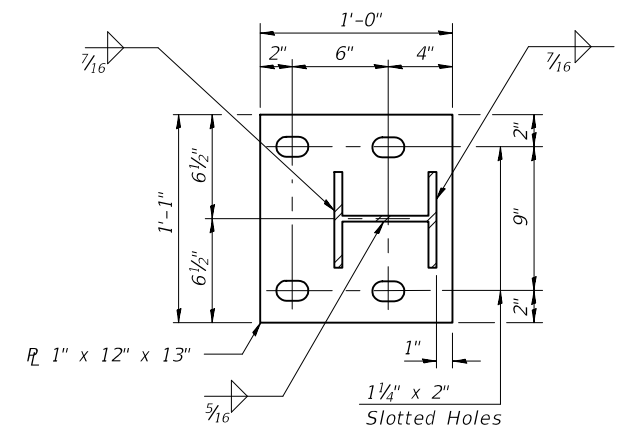
END OF RAIL DETAILS



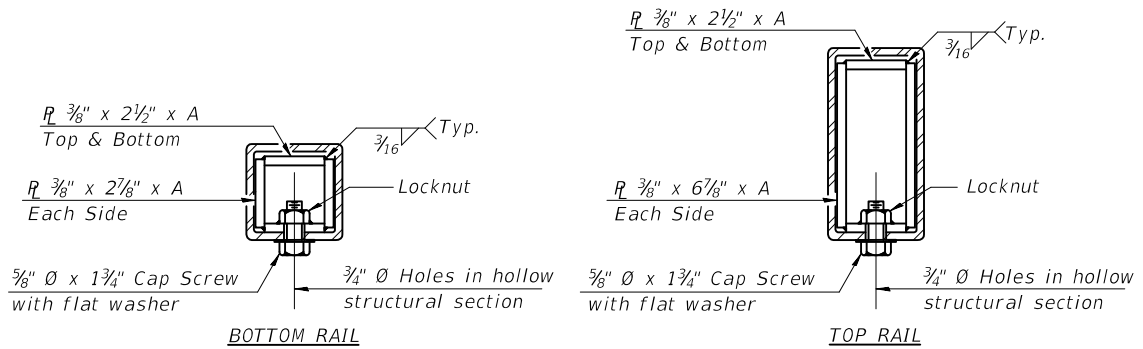
VIEW C-C



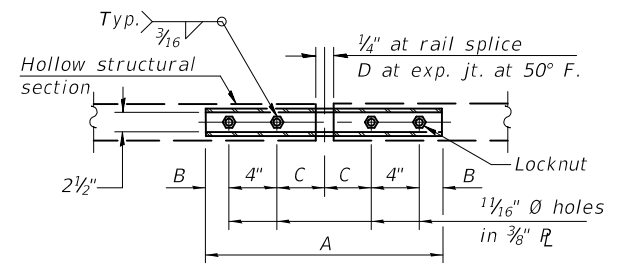
DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS



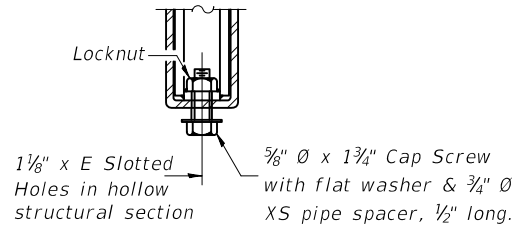
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	49

R-31

2-17-2017

(6'-3" Maximum Post Spacing)

PRINT DRIVER = L:\D-E\Bates\F9
 SCALE NAME = PLOT
 PLOT DATE = 8/10/2017 11:18:00 AM



USER NAME = kjk
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = 0:2 '1' = 1"
 PLOT DATE = 8/10/2017 11:18:00 AM

DESIGNED - KJA 10/16
 CHECKED - SHL 10/16
 DRAWN - KJA 11/16
 CHECKED - RDP 01/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

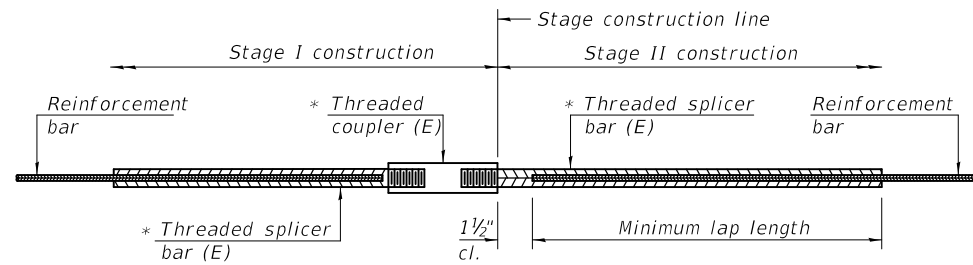
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399
 STRUCTURE NO. 041-2020

SHEET NO. 9 OF 11 SHEETS

F.A.S. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 2869 2B-1 JEFFERSON 39 28
 CONTRACT NO. 78326

ILLINOIS FED. AID PROJECT

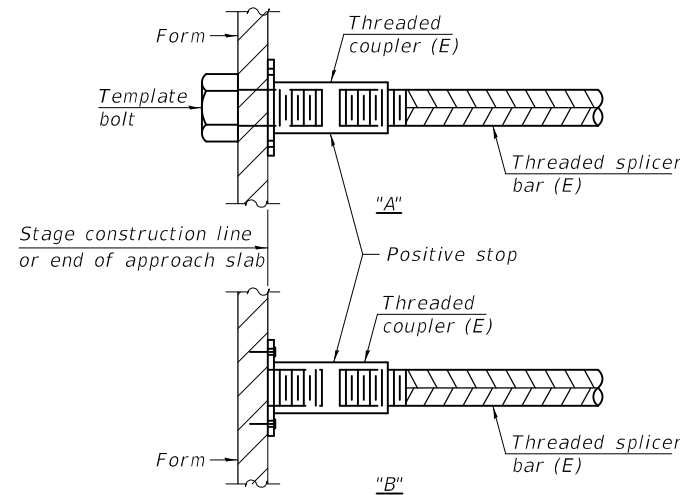


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

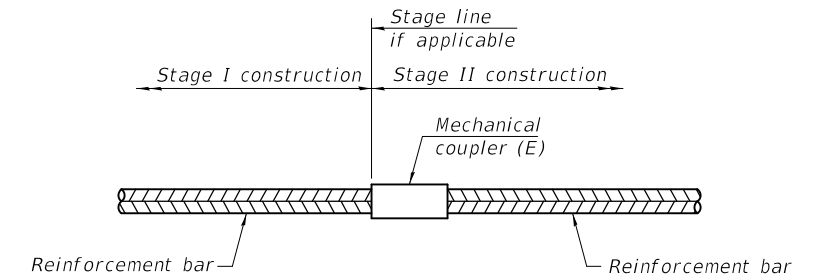
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top of top slab	#5	23	3'-2"
Bot. of top slab	#5	23	3'-2"
Top of bot. slab	#5	23	3'-2"
Bot. of bot. slab	#5	23	3'-2"
Walls	#5	30	3'-7"



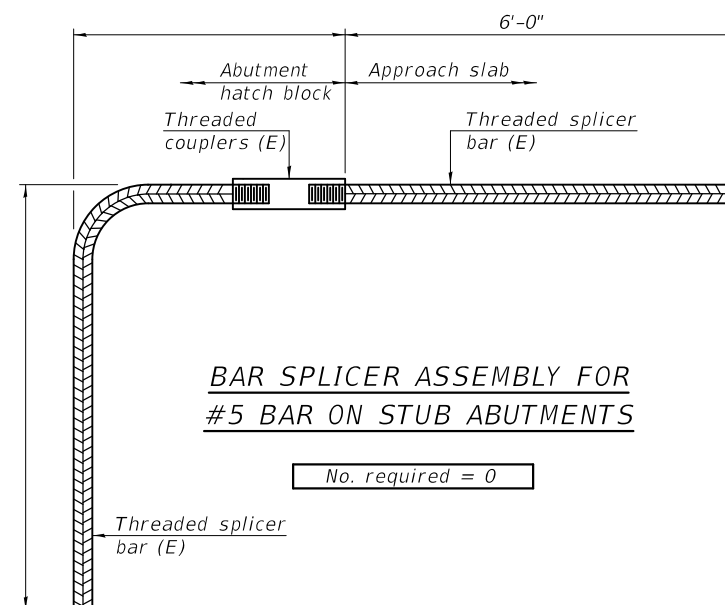
INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 0

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017

PRINT DRIVER = L:\05-ESCA\14179\14179.dwg
 PLOT SCALE = 1/8" = 1'-0"
 PLOT DATE = 8/10/2017 11:19:00 AM



USER NAME = kjk	DESIGNED - KJA 10/16	REVISED -
ESCA PROJECT NO. 1259.03	CHECKED - SHL 10/16	REVISED -
PLOT SCALE = 0:2 '1' / in.	DRAWN - KJA 11/16	REVISED -
PLOT DATE = 8/10/2017 11:19:00 AM	CHECKED - RDP 07/17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 041-2020

SHEET NO. 10 OF 11 SHEETS

F.A.S. RTE. 2869	SECTION 2B-1	COUNTY JEFFERSON	TOTAL SHEETS 39	SHEET NO. 29
CONTRACT NO. 78326			ILLINOIS FED. AID PROJECT	

ILLINOIS DEPARTMENT OF TRANSPORTATION District Nine Materials				Bridge Foundation Boring Log Sheet 1 of 1			
FAS 2869 (IL 37) Over stream				Date: 5/31/2011			
Route: FAS 2869 (IL 37) Structure Number: 041-0093				Bored By: R Moberly			
Section 2B, 2BY				Location: North Ina			
County: Jefferson				Checked By: R Graeff			
Boring No 1-S	D	B		Surf Wat Elev: 410.3	D	B	
Station 494+68	E	L		Ground Water Elevation	P	L	
Offset 9' Lt CL	T	O		when Drilling 405.6	T	O	
Ground Surface 420.1 Ft	H	W	Qu	At Completion	H	W	Qu
		S	tsf	At: Hrs:		S	tsf
			W%				W%
7" Asphalt over 10.5" concrete				Cored			
418.6				Hard, dry, grey, Clay Shale			
Very soft, very moist, brown mottled grey, Silty Clay Loam A-6				Cored 24.8 to 29.8 feet			
415.6				80% Recovery; 11% RQD			
Soft, very moist, brown mottled grey, Silty Clay Loam A-6				Test - 90 psi			
413.1	5.0	WH		390.1	30.0		
Very soft, very moist, grey, Silty Clay A-6				Hard, dry, grey, Clay Shale			
410.6				Cored 29.8 to 34.8 feet			
Medium, very moist, grey, Silty Clay A-6				100% Recovery; 67% RQD			
408.1	10.0	1		Test - 97 psi			
Medium, very moist, brown mottled grey, Silty Clay A-6				Test - 127 psi			
403.1				Test - 373 psi	35.0		
Soft, very moist, brown mottled grey, Clay to Silty Clay A7-6				Hard, dry, grey, Clay Shale			
400.6				Cored 34.8 to 39.8 feet			
Stiff, moist, grey mottled brown, Clay A7-6 to Weathered Clay Shale				57% Recovery; 32% RQD			
398.6				Test - 105 psi			
Hard, dry to damp, grey, Weathered Clay Shale				380.1	40.0		
395.6				Bottom of hole = 39.8 Feet			
Hard, dry, grey, Clay Shale				Free water observed at 14.5 Ft			
395.1	25.0	100/3"		Elevation referenced to BM at NE corner of structure; Elev=420.3 ft			
				Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.)			
				To convert "N" values to "N60" multiply by 1.25			

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fall. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION District Nine Materials				Bridge Foundation Boring Log Sheet 1 of 1			
FAS 2869 (IL 37) Over stream				Date: 6/1/2011			
Route: FAS 2869 (IL 37) Structure Number: 041-0093				Bored By: R Moberly			
Section 2B, 2BY				Location: North Ina			
County: Jefferson				Checked By: R Graeff			
Boring No 2-S	D	B		Surf Wat Elev: 410.3	D	B	
Station 495+09	E	L		Ground Water Elevation	P	L	
Offset 9' Rt CL	T	O		when Drilling 405.7	T	O	
Ground Surface 420.2 Ft	H	W	Qu	At Completion	H	W	Qu
		S	tsf	At: Hrs:		S	tsf
			W%				W%
8" Asphalt over 10" concrete				Cored			
418.7				Hard, dry, grey, Clay Shale			
Soft, very moist, brown mottled grey, Silty Clay Loam A-6 (9)				Augered			
415.6				WH			
Soft, very moist, brown mottled grey, Silty Clay Loam A-6				1 0.3B 31			
413.2	5.0	WH		1			
Very soft, wet, grey, Silty Clay Loam A-6 (9)				390.2	30.0	100/5"	
410.7				Bottom of hole = 29.9 Feet			
Stiff, moist, grey, Clay to Silty Clay A7-6 (13-14)				Free water observed at 14.5 Ft			
408.2				Elevation referenced to BM at NE corner of structure; Elev=420.3 ft			
Medium, very moist, brown mottled grey, Silty Clay A-6 (10)				Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.)			
403.2	10.0	1		To convert "N" values to "N60" multiply by 1.25			
Soft, very moist, brown mottled grey, Silty Clay Loam A-6 (9) with pea gravel				35.0			
400.7				Medium, very moist, brown mottled grey, Silty Clay A-6 (10)			
Very stiff, damp, grey and brown, Clay A7-6 to Weathered Clay Shale				1 0.6B 24			
397.7				2 0.8B 24			
Hard, dry, grey, Clay Shale				15.0	1		
395.6				2 0.8B 24			
Hard, dry, grey, Clay Shale				403.2			
395.1				Soft, very moist, brown mottled grey, Silty Clay Loam A-6 (9)			
				1 0.4B 28			
				2 0.4B 28			
				3			
				400.7			
				Very stiff, damp, grey and brown, Clay A7-6 to Weathered Clay Shale			
				1 2.7S 17			
				20			
				397.7			
				11			
				100/10"			
				395.6			
				11			
				32			
				41			
				395.6			
				25.0	100/3"		50.0

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fall. B-Bulge S-Shear E-Estimated P-Penetrometer)

PRINT DRIVER = L:\05-2017\105-2017-03\105-2017-03-01\105-2017-03-01-01.dwg
SCALE NAME = 1/8" = 1'-0"
DATE = 6/1/2011 11:19:40 AM



USER NAME = kjk	DESIGNED - KJA	10/16	REVISED -
ESCA PROJECT NO. 1259.03	CHECKED - SHL	10/16	REVISED -
PLOT SCALE = 0.2" = 1' / in.	DRAWN - KJA	11/16	REVISED -
PLOT DATE = 8/10/2017	CHECKED - RDP	01/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 041-2020

SHEET NO. 11 OF 11 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	30
CONTRACT NO. 78326			ILLINOIS FED. AID PROJECT	

USER = kjk
 DATE = 8/10/2017
 FILE NAME = D:\78326\11t-emb01.dgn



USER NAME = kjk
 ESCA PROJECT NO. 1259.03
 PLOT SCALE = 0.1667 / 1"
 PLOT DATE = 8/10/2017 10:58:52 AM

DESIGNED - KJK
 DRAWN - KJK
 CHECKED - ---
 DATE - 12/16

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
 STRUCTURE NO. 041-0093

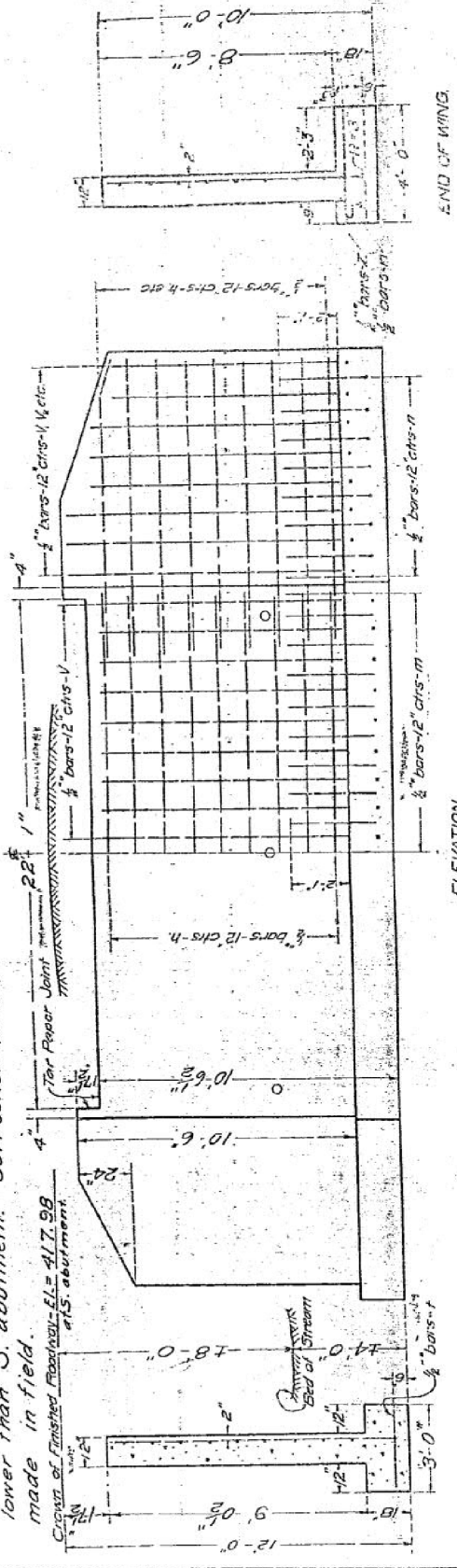
SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	31
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 78326		

STATE OF ILLINOIS
 STATE HIGHWAY DEPARTMENT
 R. C. ABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 12 FT.

BOND ISSUE ROUTE NO.	COUNTY	SEC. SHEETS	SHEET NO.
07	Jefferson	29	23

B.M. - See Road Plans.
 Note: Use dimensions as shown for South abutment. Make North abutment 0.12 foot lower than S. abutment. Correction to be made in field.
 Crown of Finished Roadway - EL = 417.98 at S. abutment



END OF WING.

BAR	NO.	SIZE	LENGTH	AREA
V	46	1/2"	8'-6"	8'-6"
V	28	1/2"	10'-0"	10'-0"
V	18	1/2"	8'-6"	8'-6"
H	18	1/2"	22'-6"	22'-6"
H	36	1/2"	12'-6"	12'-6"
H	46	1/2"	10'-0"	10'-0"
H	44	1/2"	2'-9"	2'-9"
H	44	1/2"	4'-0"	4'-0"

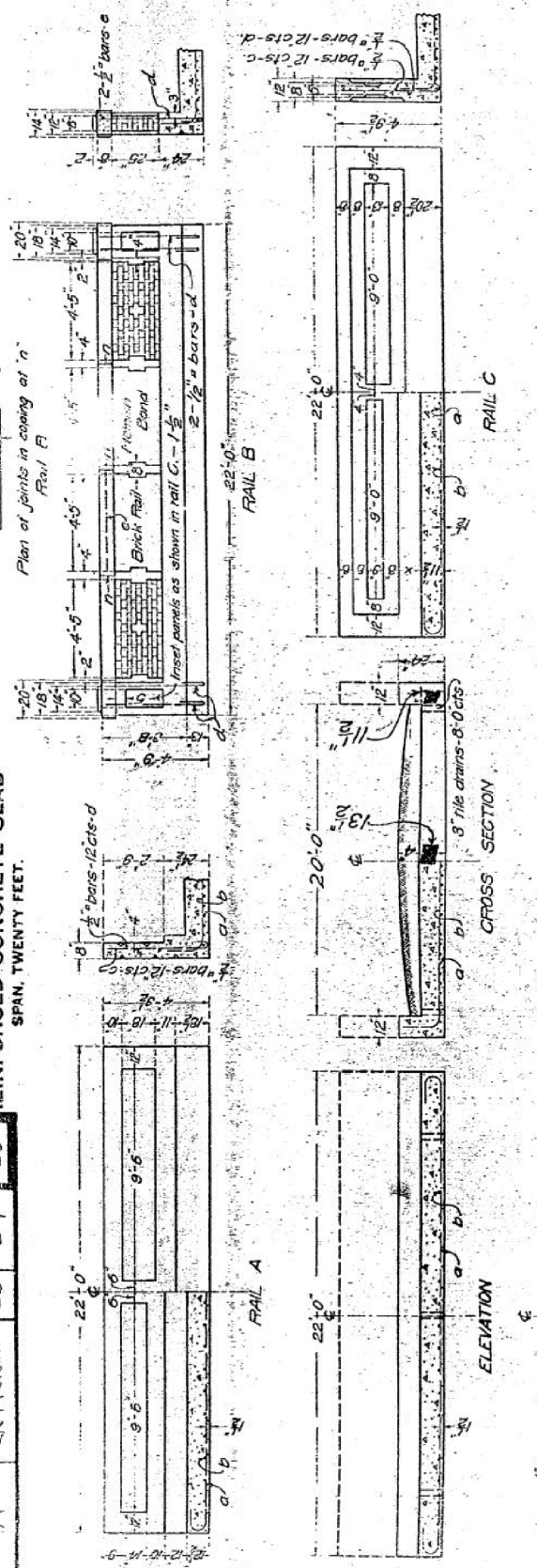
APPROXIMATE WEIGHT OF REINFORCEMENT = 1960 LBS.
 WEIGHT OF CONCRETE = 4700 LBS.
 NEVER USE #1 CONCRETS TO BE USED THROUGHOUT.
 PROPORTIONS 1-2 1/4 - 4.

STA 494+90
 STATE BOND ISSUE ROAD
 SECTION 2B-ROUTE 37
 JEFFERSON COUNTY
 669

STATE OF ILLINOIS
 STATE HIGHWAY DEPARTMENT
 REINFORCED CONCRETE SLAB
 SPAN, TWENTY FEET.

BOND ISSUE ROUTE NO.	COUNTY	SEC. SHEETS	SHEET NO.
07	Jefferson	29	23

SHEET NO. 1
 2 SHEETS



USE RAIL B. 20 FOOT ROADWAY

RAIL	16 FT. ROADWAY		18 FT. ROADWAY		20 FT. ROADWAY		24 FT. ROADWAY		30 FT. ROADWAY	
	Bars No.	Length	Bars No.	Length	Bars No.	Length	Bars No.	Length	Bars No.	Length
RAIL A	4	24'-0"	4	24'-0"	4	24'-0"	4	24'-0"	4	24'-0"
RAIL B	6	20'-0"	6	20'-0"	6	20'-0"	6	20'-0"	6	20'-0"
RAIL C	4	24'-0"	4	24'-0"	4	24'-0"	4	24'-0"	4	24'-0"
Steel - Lbs.	3960	3960	4200	4200	4200	4200	4200	4200	4200	4200
Concrete - Cu Yds.	210	210	210	210	210	210	210	210	210	210

Class A concrete to be used throughout.
 Proportions 1 - 2 1/4 - 4.

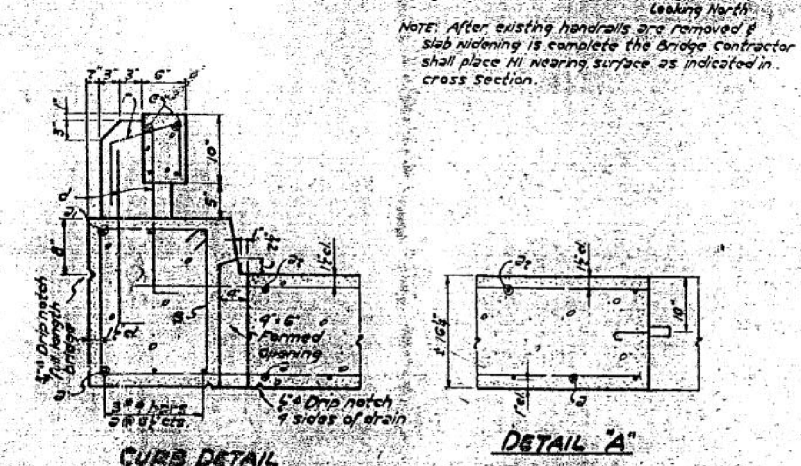
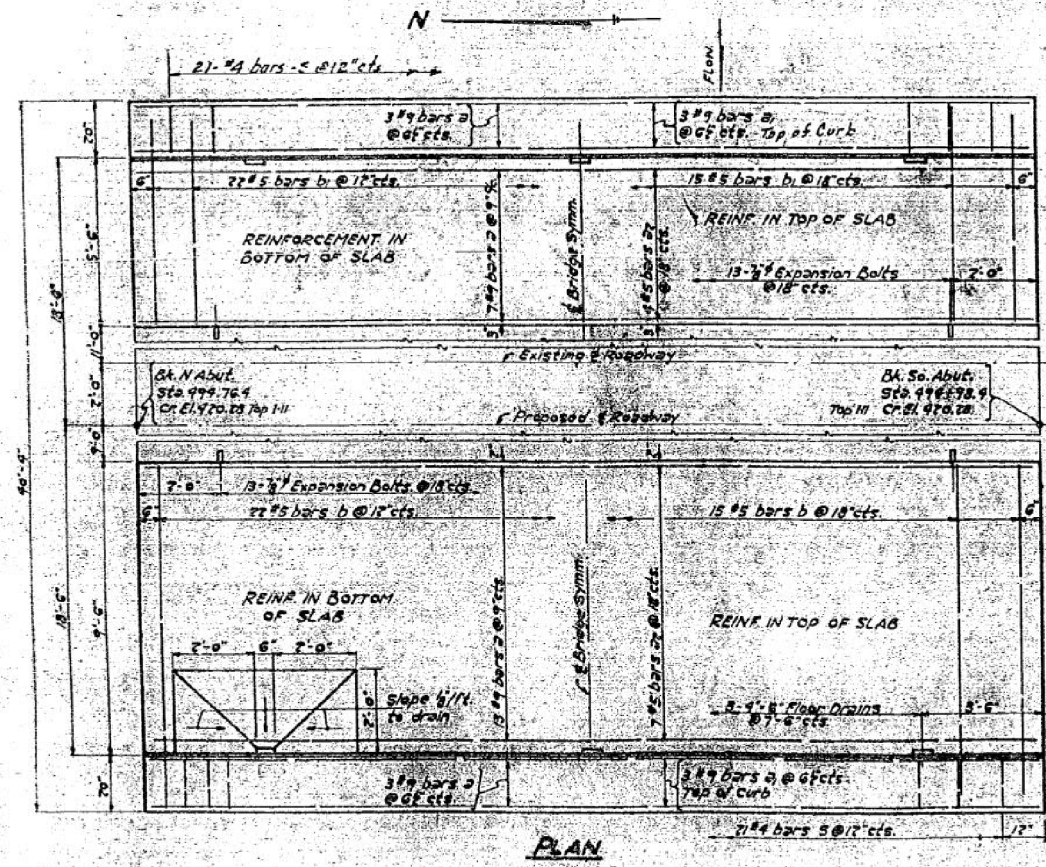
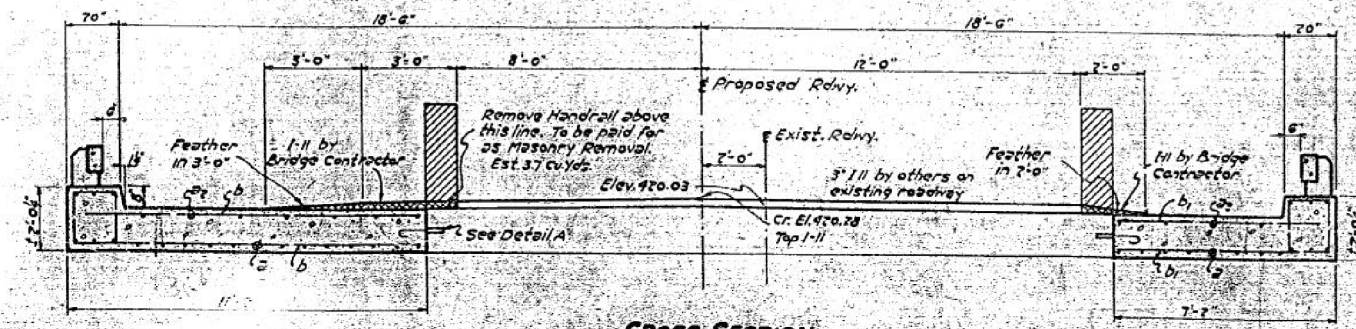
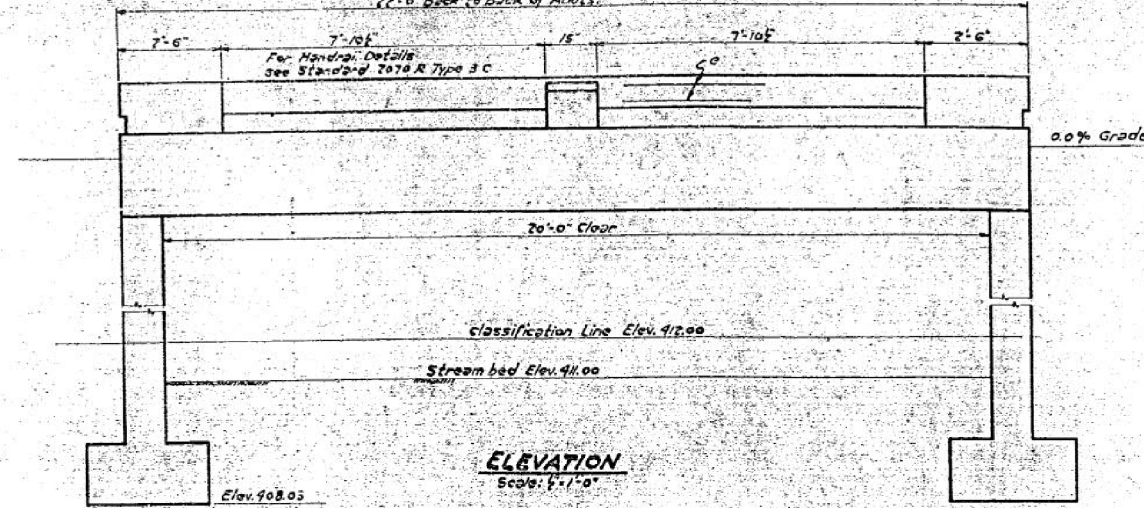
APPROVED: *Charles J. Shreck*
 CIVIL ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF ILLINOIS

STATION 494+90
 STATE BOND ISSUE ROAD
 SECTION 2B-ROUTE 37
 JEFFERSON COUNTY.
 609

R.M. Spike & washer in telephone pole N.L.L. Sta. 496+00 Elev. 428.62
 Existing Structure: R.C. Slab 1-Span @ 20'-0" Rwy. Rwy. to be widened to 37'-0" Exist. Handrail
 and other concrete to be removed as indicated on plans.
 22'-0" Back to Back of Abuts.

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

ROAD DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	32
SHEET NO. 2 SHEETS				

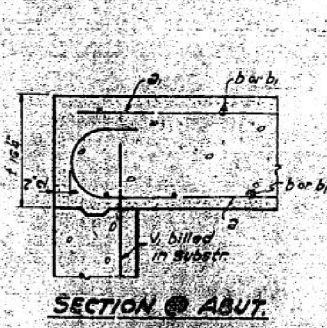
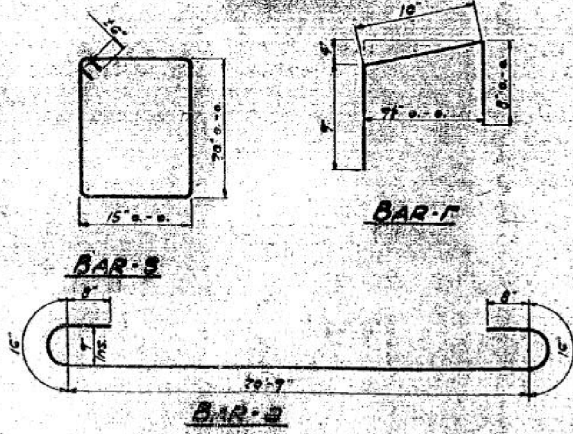


NOTE: After existing handrails are removed & slab widening is complete the bridge contractor shall place 11" wearing surface as indicated in cross section.

GENERAL NOTES
 Class X concrete shall be used thru-out except in Handrail & Posts. Handrail Concrete shall be used in Handrail & Posts. The concrete floor slab on each side of the existing structure shall be poured in one continuous operation and shall be finished in accordance with Art. 6.13(6) of the Standard Specifications. The contract unit price for Expansion Bolts shall include furnishing, drilling holes, and setting exp. bolts. The Handrail shall not be poured until after the falsework has been removed. For backfilling behind abuts with fixed tops see Art. 533(U) of the Standard Specifications. For waterproofing of Abuts. & Wings see Special Provisions.

WATERWAY INFORMATION

Drainage Area	380 Acres
Character	Rolling
Opening Reg'd by Formula	C = 0.95 Talbot
Present Bridge	160'
Proposed Bridge Opening	160'



STATION 496+00
 BUILT IN BY
 STATE OF ILLINOIS
 SALARY 37 SEC 2-AY
 F.A. 500, 531(9)
 LANDING 110
NAPLE PLATE
 See 514 1881

TOTAL BILL OF MATERIAL

ITEM	UNIT	SURF	SUB	TOTAL
Class X Concrete	Cu Yds	222	588	810
Handrail Concrete	Cu Yds	10	10	20
Reinforcement Bars	Lbs	4010	7050	7060
Expansion Bolts	EA	26	44	70
Name Plate	EA	1	1	2
Masonry Removal	Cu Yds	3.7	6	9.7
Class A Earth for Street	Cu Yds	60	60	120
Class B Earth for Street	Cu Yds	120	120	240
Differential Gravel	cu yd	20	20	40
Bit. Conc. surf. Course	Sq. Yds	222	222	444

BILL OF MATERIAL - SUPPLY

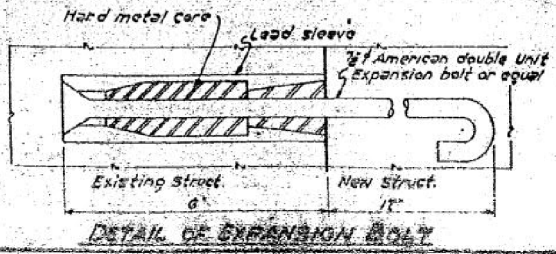
BAR NO.	SIZE	LENGTH	WEIGHT
1	7/8"	24'-0"	100
2	6"	12'-0"	50
3	11"	24'-0"	100
4	5"	12'-0"	50
5	8"	24'-0"	100
6	12"	24'-0"	100
7	9"	24'-0"	100

All bars shall be round A 311 A 311-33
 The 311 number is the number of
 inches in the nominal diameter

Stresses:
 A 1000 psi Super
 A 600 psi Sp
 A 5000 psi Sp
 A 10000 psi Sp

DESIGNED: R.L. Sandral
 CHECKED: R.L. Sandral
 DRAWN: R.L. Sandral
 CHECKED: R.L. Sandral

EXAMINED: W.E. Hanson
 PASSED: C.L. Hanson
 APPROVED: J.W. Hanson



FOR INFORMATION ONLY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
 STRUCTURE NO. 041-0093

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	32
CONTRACT NO. 78326				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

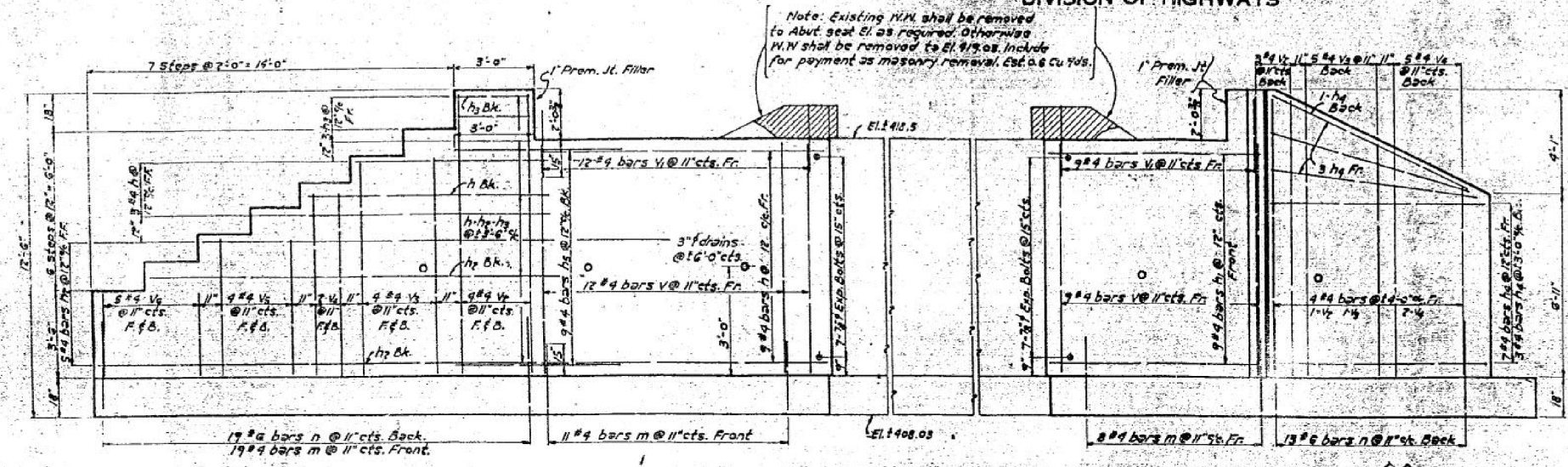
USER: kjk
 DATE: 8/10/2017
 FILE NAME: D:\78326-111-rem02.dgn



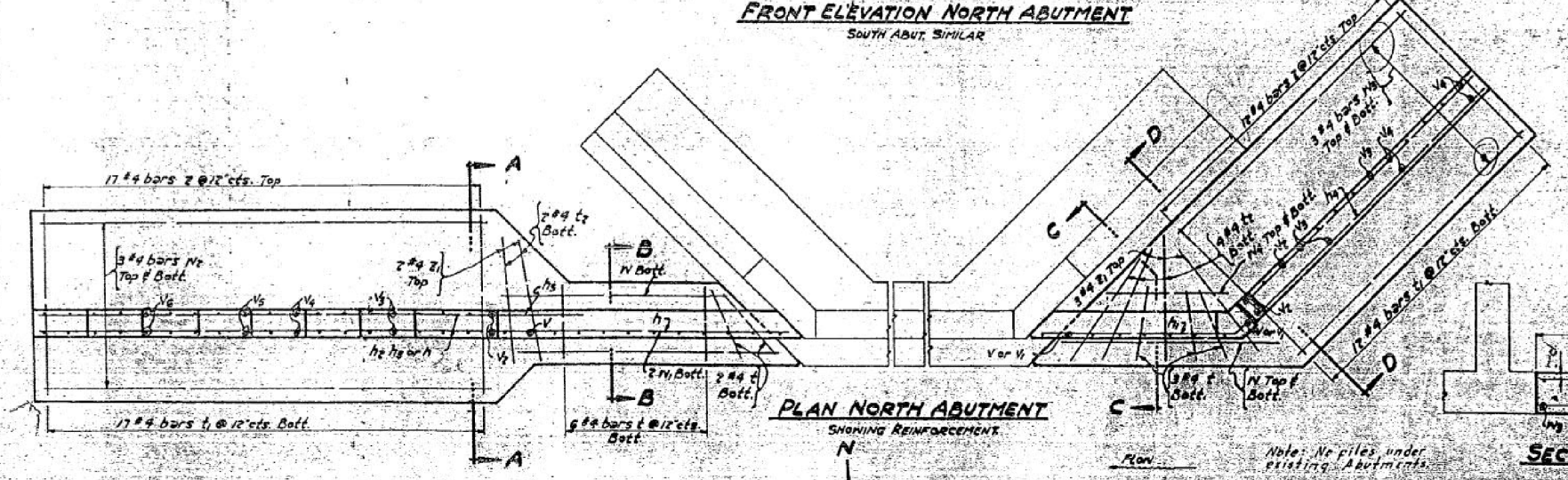
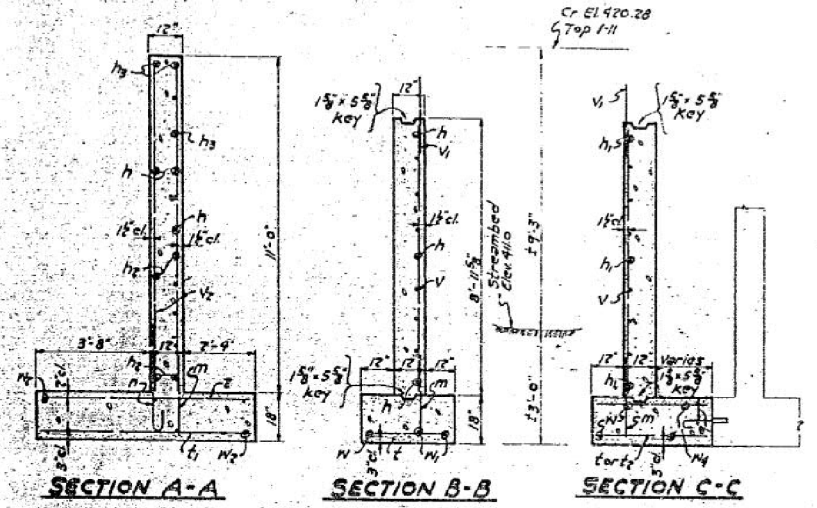
USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259-03	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED -	REVISED -
PLOT DATE = 8/10/2017 10:59:30 AM	DATE - 12/16	REVISED -

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

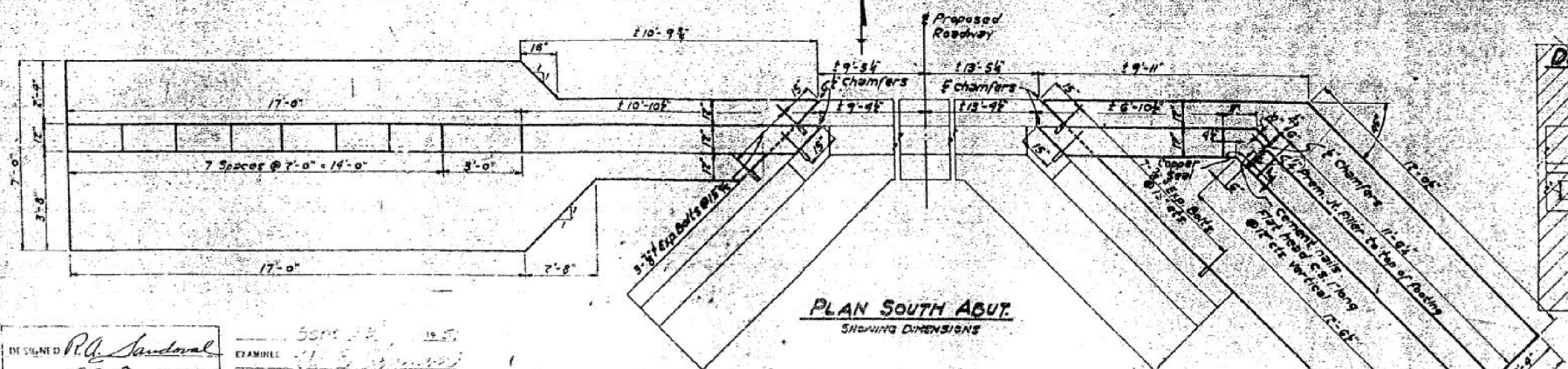
PROJECT NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
37	0-207	Jefferson	54	56
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		F-732(0)



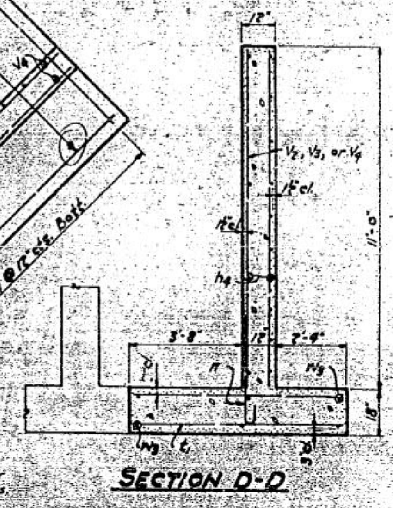
FRONT ELEVATION NORTH ABUTMENT
SOUTH ABUT. SIMILAR



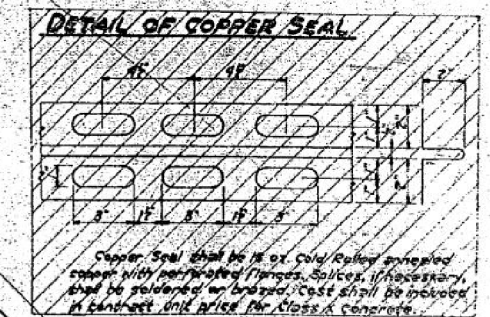
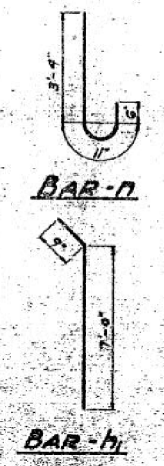
PLAN NORTH ABUTMENT
SHOWING REINFORCEMENT



PLAN SOUTH ABUTMENT
SHOWING DIMENSIONS



SECTION D-D



BILL OF MATERIAL - SUBSTR.

BAR	NO.	SIZE	LENGTH	SHAPE
h	26	#4	10'-3"	
h1	18	#4	7'-9"	
h2	14	#4	13'-9"	
h3	8	#4	2'-6"	
h4	28	#4	11'-0"	
h5	18	#4	6'-0"	
m	78	#4	2'-6"	
n	64	#6	4'-9"	
t	27	#4	7'-6"	
t1	58	#4	6'-6"	
t2	17	#4	9'-6"	
v	42	#4	8'-9"	
v1	42	#4	2'-0"	
v2	24	#4	10'-3"	
v3	28	#4	8'-3"	
v4	22	#4	7'-0"	
v5	16	#4	5'-3"	
v6	20	#4	3'-3"	
w	6	#4	8'-0"	
w1	9	#4	10'-0"	
w2	12	#4	18'-6"	
w3	17	#4	11'-6"	
w4	9	#4	4'-0"	
z	58	#4	6'-6"	
z1	10	#4	9'-6"	
Class X Concrete				
cu yds. 58.0				
Reinforcement Bars				
LBS. 3020				
Expansion Bolts				
EA. 48				
Masonry Removal				
cu yds. 6				
Class A Excav. for Str.				
cu yds. 60				
Class B Excav. for Str.				
cu yds. 143				

NOTE: All bars shall be round A.S.T.M. A-305-89. The size number is the number of inches in the nominal diameter.

PROJECT F-222(0)
F.A.R.T.E. 97(S.6.10.97) SEC. 2-37
JEFFERSON COUNTY
STA. 494+87.4

DESIGNED: R.A. Sandoval
DRAWN: R.A. Campbell
CHECKED: R.A. KOENIKE
DATE: 4.2.02

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 041-0093

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	33
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 78326	

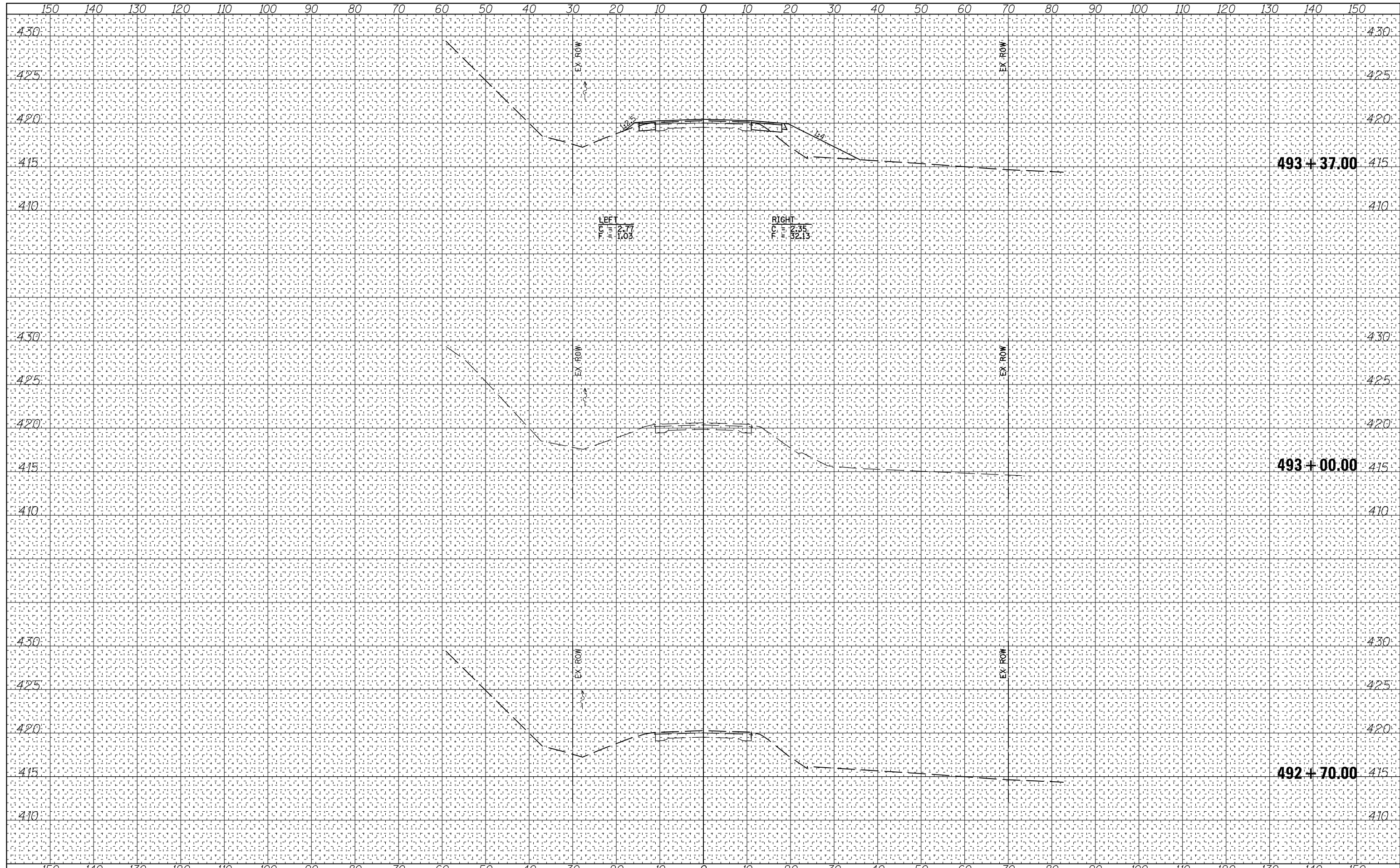


USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED -	REVISED -
PLOT DATE = 8/10/2017	DATE - 12/16	REVISED -

USER: kjk
DATE: 8/10/2017
FILE NAME: D:\2869\2869-111-rem03.dgn

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAS ROUTE 2869 (IL 37) CROSS SECTIONS

USER NAME = kjk	DESIGNED - MJW/JMS/KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - RJT/KJK	REVISED -
PLOT SCALE = (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - RDP	REVISED -
PLOT DATE = 8/10/2017 10:56:52 AM	DATE - 08/17	REVISED -

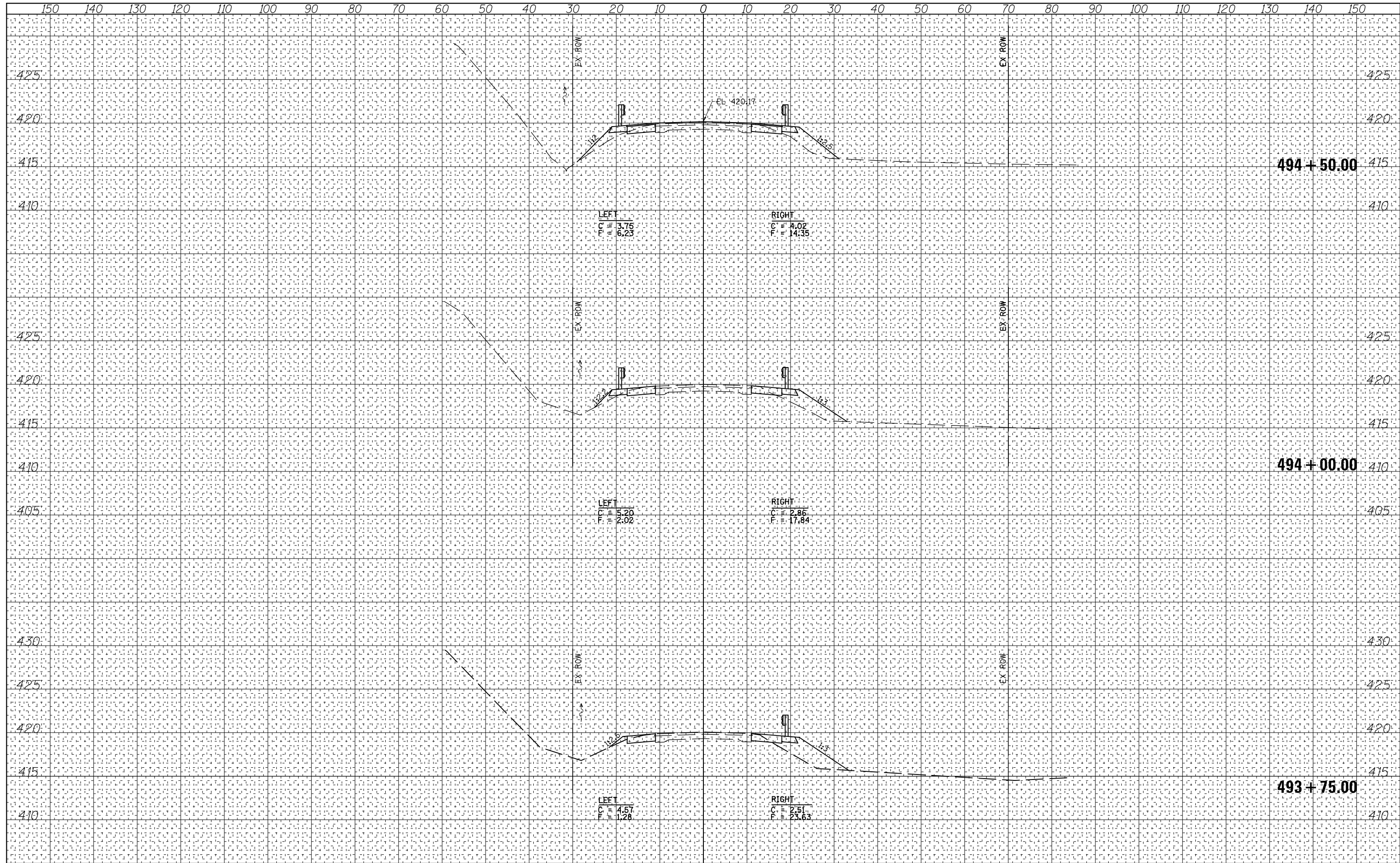
SCALE: AS SHOWN	SHEET NO. 1 OF 6 SHEETS	STA. 492+70.00 TO STA. 493+37.00
-----------------	-------------------------	----------------------------------

F.A.S. RTE. 2869	SECTION 2B-1	COUNTY JEFFERSON	TOTAL SHEETS 39	SHEET NO. 34
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 78326		



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

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



USER NAME = kjk	DESIGNED - MJW/JMS/KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - RJT/KJK	REVISED -
PLOT SCALE = (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - RDP	REVISED -
PLOT DATE = 8/10/2017 10:57:09 AM	DATE - 08/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

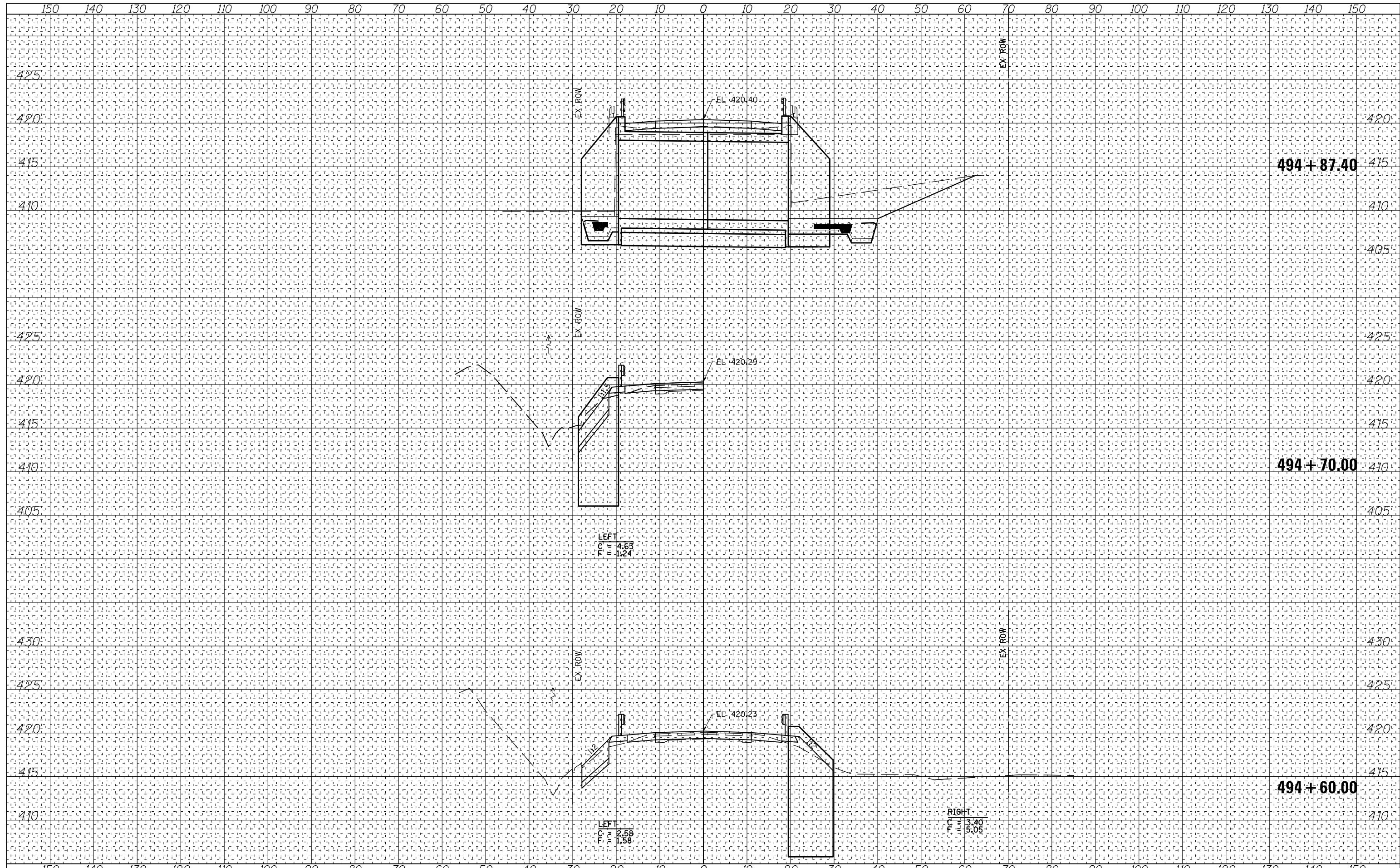
FAS ROUTE 2869 (IL 37) CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 2 OF 6 SHEETS STA. 493+75.00 TO STA. 494+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	35
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78326	

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

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



USER NAME = kjk	DESIGNED - MJW/JMS/KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - RJT/KJK	REVISED -
PLOT SCALE = (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - RDP	REVISED -
PLOT DATE = 8/10/2017 10:57:21 AM	DATE - 08/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

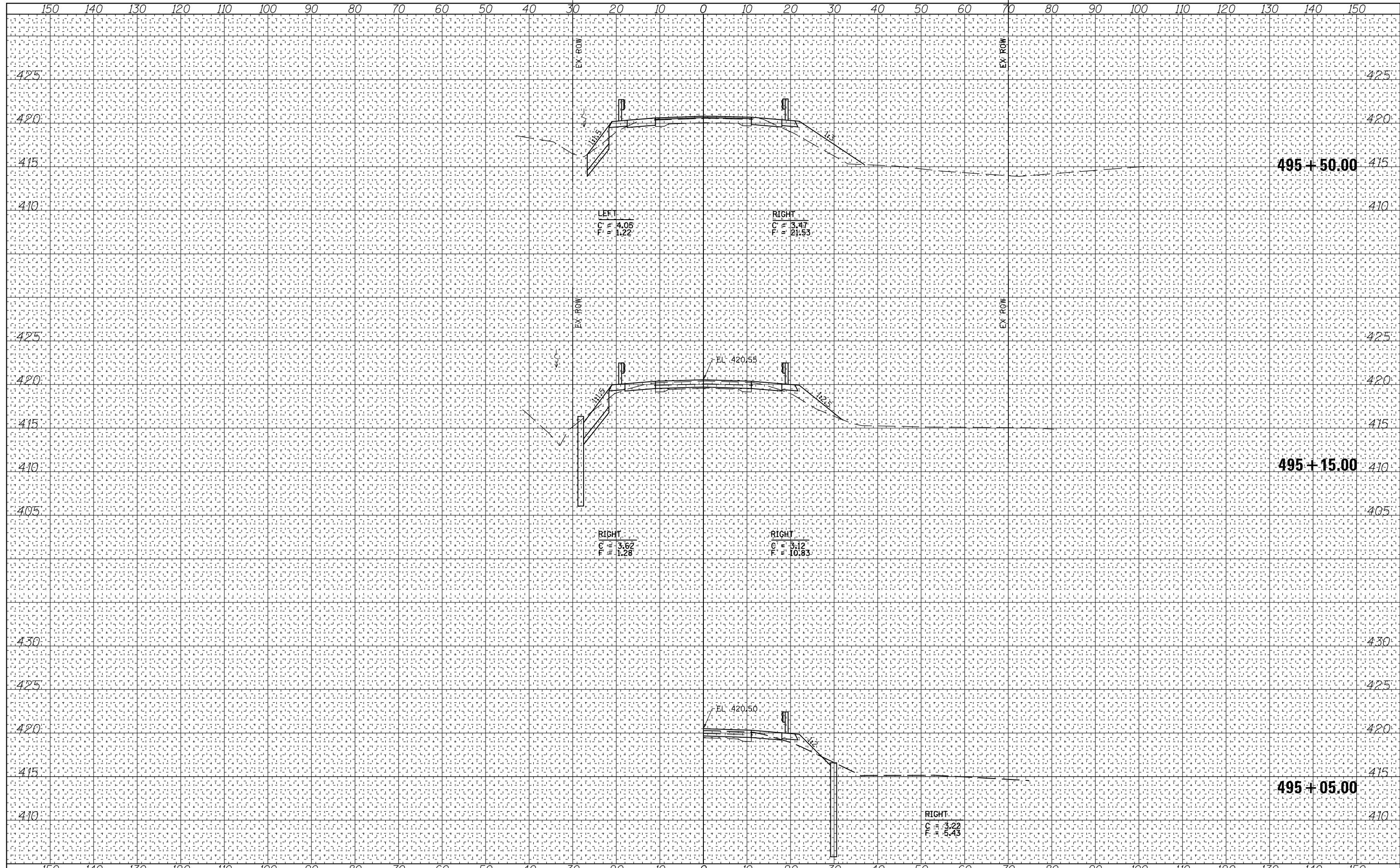
FAS ROUTE 2869 (IL 37) CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 3 OF 6 SHEETS STA. 494+60.00 TO STA. 494+87.40

F.A.S. RTE. 2869	SECTION 2B-1	COUNTY JEFFERSON	TOTAL SHEETS 39	SHEET NO. 36
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 78326		

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

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



USER NAME = kjk	DESIGNED - MJW/JMS/KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - RJT/KJK	REVISED -
PLOT SCALE = (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - RDP	REVISED -
PLOT DATE = 8/10/2017 10:57:32 AM	DATE - 08/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

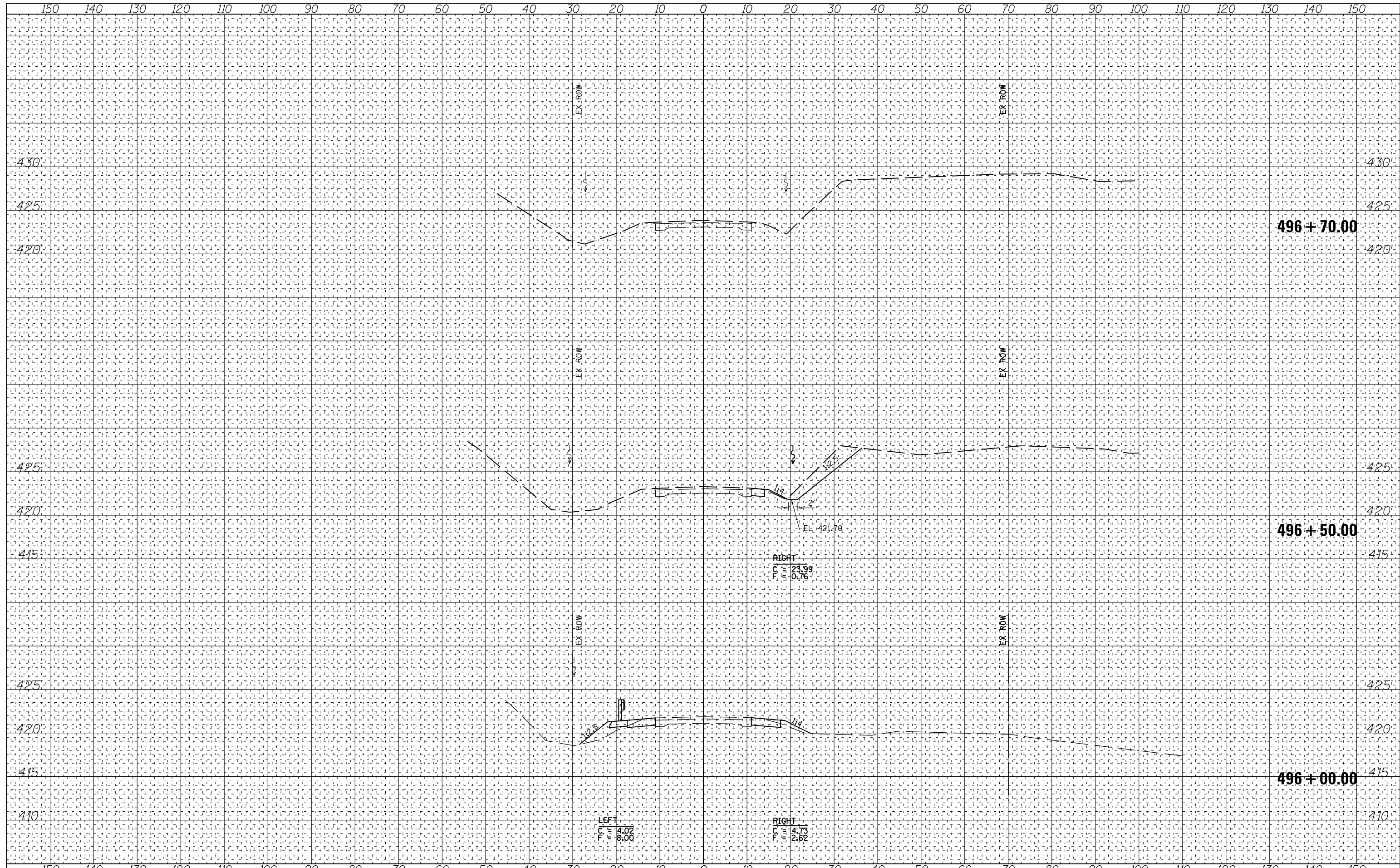
FAS ROUTE 2869 (IL 37) CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 4 OF 6 SHEETS STA. 495+05.00 TO STA. 495+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	37
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78326	

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

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



USER NAME = kjk	DESIGNED - MJW/JMS/KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - RJT/KJK	REVISED -
PLOT SCALE = (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - RDP	REVISED -
PLOT DATE = 8/10/2017 10:57:45 AM	DATE - 08/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

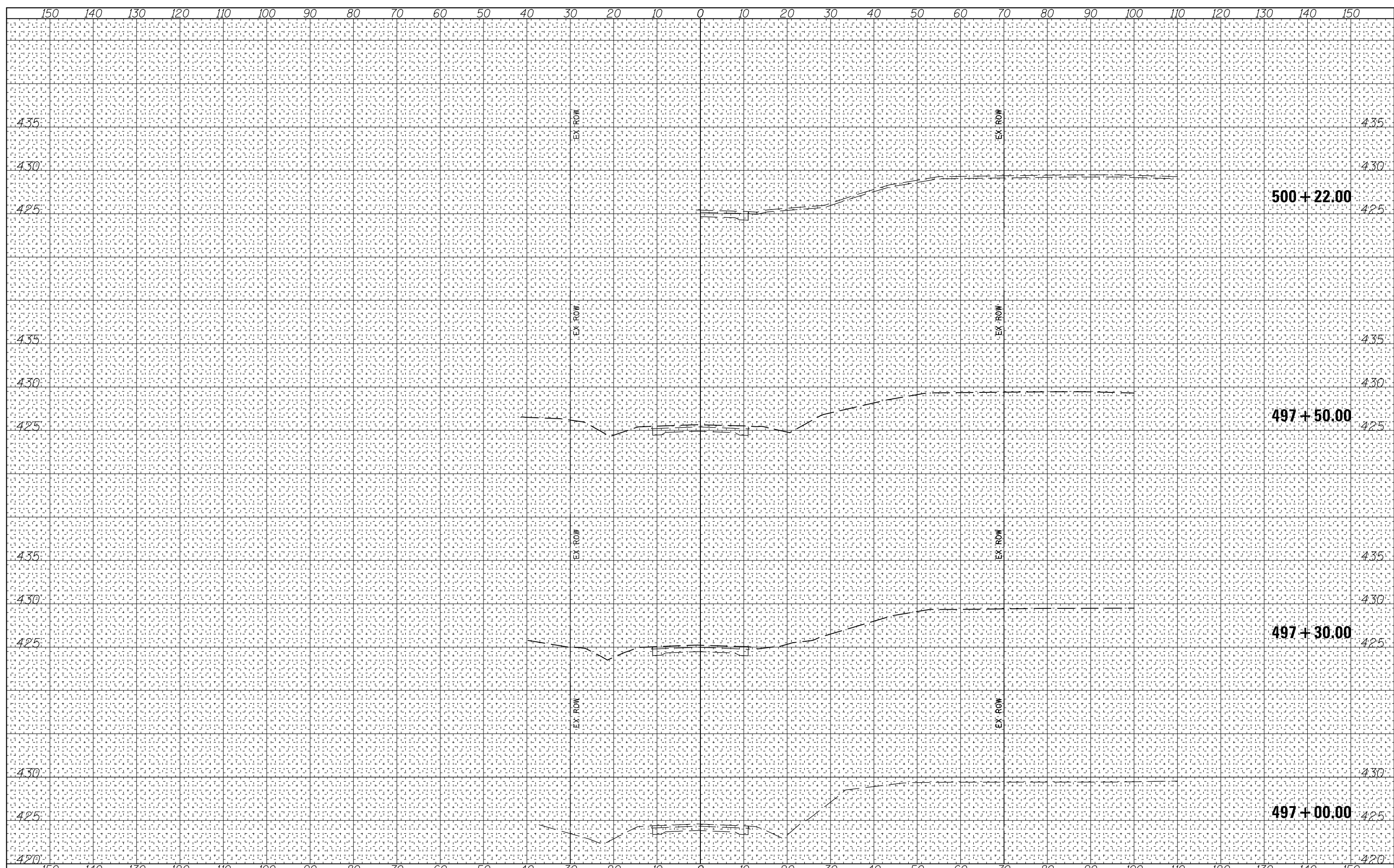
FAS ROUTE 2869 (IL 37) CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 5 OF 6 SHEETS STA. 496+00.00 TO STA. 496+70.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2869	2B-1	JEFFERSON	39	38
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 78326				

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

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



USER NAME = kjk	DESIGNED - MJW/JMS/KJK	REVISED -
ESCA PROJECT NO. 1259.03	DRAWN - RJT/KJK	REVISED -
PLOT SCALE = (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - RDP	REVISED -
PLOT DATE = 8/10/2017 10:57:56 AM	DATE - 08/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAS ROUTE 2869 (IL 37) CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 6 OF 6 SHEETS STA. 497+00.00 TO STA. 500+22.00

F.A.S. RTE. 2869	SECTION 2B-1	COUNTY JEFFERSON	TOTAL SHEETS 39	SHEET NO. 39
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 78326		