# STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE CITY OF CHICAGO.

0

 $\circ$ 

 $\bigcirc$ 

#### TRAFFIC DATA

1-90 /94 ADT (2016) = 250,400 POSTED SPEED LIMIT = 45-55 MPH

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

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

PROJECT ENGINEER J. ALAIN MIDY (847) 221-3056 PROJECT MANAGER ISSAM RAYYAN (847) 705-4178

# PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 94 - I-90 /94 (EB RAMP TO OHIO)

OVER I-90 /94 (JFK)

SECTION: 2017-009-B-R

BRIDGE REPAIRS (BEAM IMPACT)

COOK COUNTY

PROJECT NHPP-0094(410)

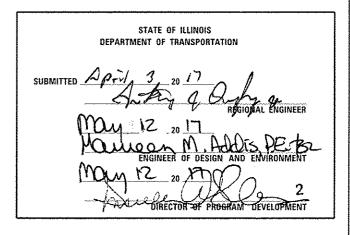
C-91-209-17 R 14 E



GROSS & NETLENGTH = 2870.00 FT. = 0.543 MILE

D-91-209-17





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 62F08

## INDEX OF SHEETS

EE	T NO.	DESCRIPTION
		COVER SHEE!
	2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
	3	SUMMARY OF OCIANTITIES
	4~8	BRIDGE PLANS ISN 016-0204)
	9-10	STAGING PLANS
	a post	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
•	15	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTILANE WEAVE (TC-09)
	13	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)

## HIGHWAY STANDARDS

011 0010110

STANDARD NO.	DESCRIPTION
701400-09	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-10.	LAME CLOSURE, FREEWAY / EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MP
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL, FREEWAY / EXPRESSWAY
701446-08	TWO LANE CLOSURE, FREEWAY / EXPRESSWAY
701901-06	TRAFFIC CONTROL DEVICES

OFFICEIOTION

#### **GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." ICUICAGO UTILITY ALERT METWORK) AT (312)744-7000 FOR FIELD LOCATIONS OF BURICO ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF CHICAGO.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIFLD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 1847)705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENCINEER SHALL CONTACT THE IDOT'S AREA TRAFFIC FIELD ENCINEER AT (847)705-4153 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

- 1				
	FILE NAME .	USER WIME I pyriamowships	DESTIGNED	REVISED -
	p+:/\fc884EBROWTEG.ittmess.go+;PWRODT\Do	umental/1001 Offices/Obstrict INProjectal/0128	9 <b>0RSMSNata\De</b> arga\D128917-sht-plan,dga	REVISED -
		PLO? SCALE < 188.8288 / In.	CHECKED -	REVISED -
-	Defoult	PLOT DATE : 4/11/2017	DATE -	REVISED -

STATE OF	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

SCALE:

SHEET

INDEX OF SHEETS, STATE STANDARDS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AND GENERAL NOTES		94	2017-00 <b>9-</b> B-R	COOK	.13	2
	والراء والراديان والراديان والمرادي والمسائدة المناف المستحددة والمساودة			CONTRACT		
SHEET OF SHEETS STA.	TO STA.		HAINGIS FED. A			,.,,

WREAN

			urban		CC	TO HIGT SIM	ON TYPE /	ODE 0014		11		~	<del></del>	- <del>T</del>	T	<u></u>	NS TRUCTIO	ON TYPE C	ODE	
	SUMMARY OF OUANTITIE	ES		90/10		JASTROCTI	Time c	7,002,0014		<b> </b>	SUMMA	RY OF QUANTITIES	····			1	143110011		ODE.	
CODE NO	ITEM	UNIT	TOTAL		and the same of th	:		ederforete videoritete de videoritet		CODE NO		ITEM	UNIT	TOTAL	· No Hattandari		THE POST OFFICE AND ADDRESS OF THE POST OF			
50606701	CLEANING AND PAINTING STRUCTURAL LOCATION 1	STEEL. LSUM	1						The state of the s		-						Care to the care t	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
									The same of the sa	expension and a second										
67000400	ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	6	6							The state of the s	The second secon	en en entre de la cale de la colonida de la colonida de la colonida en la colonida de la colonida del colonida de la colonida de la colonida del colonida de la colonida del colonida de la colonida de la colonida del colonida de la colonida del col					200	, A ,	
	ador e e e e e e e e e e e e e e e e e e e					James Page 1, 100, majorga , 1 <sub>0,0</sub> 10.						and and the second of the seco	ar and the contract of the con							
67160162	AND THE STATE OF STAT				**************************************					W COMMISSION OF THE PARTY OF TH			,		The second secon					ļ
67100100	MOBILIZATION	LSUM	Address and the second of the		40 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	-	ROMANIA AND AND AND AND AND AND AND AND AND AN		10 to			one and a summary artificial resistance of the summary of the summ			To the state of th			1	The state of the s	
X0326191	BEAM HEAT STRAIGHTENING	LSUM	1	apara de la constitución de la c	depth map 1 control to the control t		A. Complete description of the	rinordon and an	Control of the Contro			e de la composition della comp			odinana o o o o o o o o o o o o o o o o o o	Vertical and the second			A CONTRACTOR OF THE CONTRACTOR	
			Andrew of the Control	The second secon					The state of the s											
x7011015	TRAFFIC CONTROL AND PROTECTION. (EXPRESSWAYS)	LSUM	1									antico y territoriata e e e e e e e e e e e e e e e e e e								
				Congression Congre		ļ			Toron and a second											
Z0001905	STRUCTURAL STEEL REPAIR	POUND	3040	3040			the state of the s		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN T		-									
		-	-	-				. Committee of Advisor can	Annie de de contraction de contracti	D. PPAYOR BILLIAN AND AND AND AND AND AND AND AND AND A			**	***************************************				The state of the s		
20007112	CONTAINMENT AND DISPOSAL OF LEAD CLEANING RESIDUES	PAINT LSUM	SALE.	1																
									· ·											
							of the Michigan Commission of the Commission of								a Parataura and ann han bloomed ann dear 1990 bha baile	**************************************	The state of the s	- шеторен с социальной мадали, дададания, и	graphered they are the control of the control of the	The second section and the second section and the second section is
and the second s					demonstration on the second sections.					10 10 10 10 10 10 10 10 10 10 10 10 10 1		وستان داند به در در داند داندوندار به در در داند و و در دانداند. در در داند				-		***************************************		
						<b> </b>														<b>_</b>
			-9 this make make make make and the second of the second o			<u> </u>					Ber an spein der Land Gebel marrier stem sterk teget "A. a. Erke at "marrier 1889" V. Jes v. Je v. Je v. Va "		naj era, mengambaja gipingan meminipa iyammada ayinkan ibay ayi mebini mengipikan ibinya an iba			and described to the second of the second described and the second described as the second described a	ky hade V ac a Jame' V James Ny Alfred ao gant a An Ar V an	age may recome to the against the entering before contract to the en		
					ļ		·													<b></b>
	<del>and a state of the state of th</del>			ļ				ļ		-		······································			<u> </u>					
		and the same and making a surpression from the finished an anamount memory paternas.												And the second s					anti-halitha aliqueti — Man alifus f Affigues en a francesse of a scalarite	
					ļ			<u></u>	ļ											
							<u> </u>		<b> </b>					-						
								-												***************************************
						<u> </u>									· • • • • • • • • • • • • • • • • • • •	gallediantes des désidéntes et que may a ser a transcent à				
							-	-												
					The state of the s											Markettina dia kaomini any ao at indra dia ani andra	and from the same of the same			
									ļ										enting to the gradual of Wilderstein and and you and their a	
					-															
				The contract of the second of											a specify on the set handleft consistent of a conserva-	anni ili. Angana papa papa magga nasawa	ماندان و داران در این از داران در این است. در است. در این است. در این در این در این در است. در این در این در ا	elektronikas domi Pelonikas ima a aldari jude Pelonika va a	the same who there is a trade of the same	**************************************
		-			****						_		***	and the second s						-
	,	,				- A to the control of			Production of the Control of the Con	to the state of th							West of the second of the seco			
FILE HOME :  provincedEditionTEGIT	USER NAME : pyronimentala usoois governi (ON Useument NOOF OF Hope Albrid No o ports (NEOS) (Albrid)	DESIGNED -		REVISED REVISED	-		<u></u>	ST	ATE OF	ILLINOIS	-					F.A.I. 81E. 94	SECT1		COUNTY SH	DTAL SHEET EETS NO.
	PLOT SCALE < 100,000 */ in PLOT DATE < 4/4/207	CHECKED -		REVISED REVISED			Đ			RANSPORTA	TION		JMMARY OF QUAN		O STA,				CONTRACT N	

- <u>GENERAL NOTES</u>
- 2. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts  $^{7}_{8}$ "  $\phi$ , holes  $^{15}_{16}$ "  $\phi$ , unless otherwise noted.

1. All structural steel shall be AASHTO M 270 Grade 36, unless otherwise noted,

- 3. Pian dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
- 4. Cost of removal and/or re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included in the cost of "Structural Steel Repair".
- The cost of field drilling required for installation of the steel members is included with "Structural Steel Repair".
- 6. The existing girder shall be cleaned and painted according to the special provision "Cleaning and Painting Existing Steel Structures". The area to be cleaned and painted shall be according to the special provision for "Beam Heat Straightening". The entire specified area shall be cleaned per the requirements for Commercial Grade Power Tool Cleaning SSPC-SP15 and painted according to the requirements of Paint System 1 Organic Zinc / Epoxy / Urethone. Application of the intermediate and top coats shall be done after all new structural steel has been installed. The color of the final finish coat shall match the color of the existing steel. Cost included with Cleaning and Painting Structural Steel, Location No. 1.
- Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

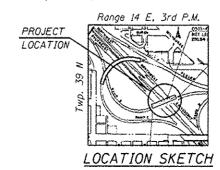
- 8. All new structural steel shall be painted with the Organic Zinc / Epoxy / Urethone Paint System in accordance with Section 506 of the Standard Specifications. The new steel shall be shop primed and the intermediate and final coats shall be applied in the field after the new structural steel is installed. The color of the final finish coat shall match the color of the existing steel.
- Paint shall be removed from the damaged girder in the area of impact and areas of heating before the girder is straightened according to the special provision for "Beam Heat Straightening"
- 10. No field welding is permitted except as specified in the contract documents.
- Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
- 12. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 13. Plans of the original construction and prior rehabilitation contracts are available for review at the IDOT District 1 office in Schaumberg, IL.

## TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Beam Heat Straightening	L. Sum	1
Structural Steel Repair	Pound	3,040
Cleaning and Painting Structural Steel, Location 1	L. Sum	1
Containment and Disposal of Lead Paint Cleaning Residues, No. 1	L. Sum	1

#### LEGEND

- (A) Heat straighten damaged girder.
- (B) Heat strengthen bottom flange.
- © Add bottom flange and web strengthening plates.
- (D) Replace diaphragm and connection plates.
- (E) Replace bottom flange splice plate.





GENERAL PLAN AND ELEVATION

BEAM HEAT STRAIGHTENING

RAMP D OVER I-90/94

SEC. 2017-009-B-R

COOK COUNTY

STRUCTURE NO. 016-0204

whks

 USER NAME \* #USER\*
 DESIGNED REVISED

 FILE NAME \* #FILES\*
 CHECKED REVISED

 PLOT SCALE \* #SCALE\*
 DRAWN REVISED

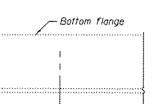
 PLOT DATE \* \* \*\*DATE\*
 CHECKED REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-0204
SHEET NO. 1 OF 5 SHEETS

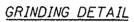
F.A.I. SECTION COUNTY TOTAL SHEET NO.
90/94 Z017-009-B-R COOK /3 4

CONTRACT NO. 62F08



ELEVATION

Grind existing nicks, gouges and shallow cracks in the damaged girder as detailed. Ground surfaces shall be inspected for cracks using non-destructive testing (See Special Provisions for "Beam Heat Straightening") prior to initiating any beam heat straightening operations. Any cracks that cannot be removed by grinding approximately '4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Cost included with "Beam Heat Straightening".

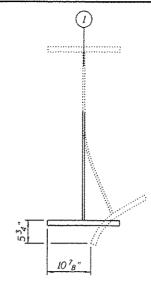


PLAN

## SEQUENCE OF CONSTRUCTION

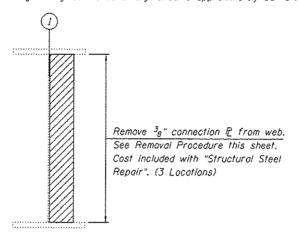
Gouge or nick

- Close the North shoulder on Ramp D over I-90/94 as shown in the traffic control plans.
   See Roadway Plans for traffic control.
- Remove the existing diaphragm near the impact line between girders 1 and 2. The diaphragm to be removed is 39'-0" West of Pier 2.
- 3. Remove both diaphragms on either side of the impact line between girders 1 and 2. These diaphragms are 21' east and west of the diaphragm removed in step 2, above.
- Remove the existing connection plates on girder 1 at the above locations as shown in the Diaphragm Connection Plate Removal Detail.
- 5. Grind existing nicks, gouges and cracks as shown in the Grinding Detail and drill crack arrestor holes as shown in the Web Puncture Detail.
- Conduct heat-straightening of girder 1 as shown on sheet 3 of 5 and as described in the Special Provision "Beam Heat Straightening".
- Clean and prime the existing girder as described in the Special Provisions for "Beam Heat Straightening" and "Cleaning and Painting Existing Steel Structures".
- Close the North shoulder and North traffic lane on Romp D over I-90/94 as shown in the traffic control plans. No traffic will be permitted on the North shoulder or North traffic lane until sequence 9 is fully completed.
- 9. Remove the existing bottom flange splice plate and install new bottom flange splice plate as shown in the Bottom Flange Field Splice Plate Replacement Detail on sheet 5 of 5. In no case, will traffic be permitted on the North lane and shoulder of Ramp D until the new splice plate is fully installed and all bolts are fully-tightened.
- 10. Adjust traffic control to permit traffic on North traffic lane of Ramp D. The North shoulder of Ramp D shall remain closed.
- II. Install the bottom flange strengthening plate as shown in the detail on sheet 4 of 5.
- Install the web strengthening plate, diaphragm connection angles and diaphragms as shown in the details on sheet 4 of 5.
- 13. Remove all traffic control from Ramp D.
- 14. Apply intermediate and top paint coats to all previously primed structural steel.



# EXISTING GIRDER DEFORMATION TO BE HEAT STRAIGHTENED

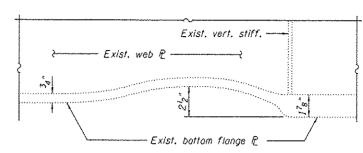
(Looking East) (Approximate max. displacement at point of impact)
Deformed length of girder to be straightened is approximately 60'-0".



# DIAPHRAGM CONNECTION PLATE REMOVAL DETAIL (Looking East)

## REMOVAL PROCEDURE

- Cut existing connection plate along the existing web and flanges as shown. The
  minimum distance from the cut line to the face of the web or flanges shall be the
  larger of '4" or the connection plate weld size, with removal of the remaining
  material accomplished by grinding as described below. The cut shall be made
  parallel to the web and flanges without angling the cut towards the web or flanges.
  Equipment and method of cutting shall be approved by the Engineer.
- 2. Remove material between cut line and the girder plates to remain by grinding and grind smooth at remaining plate surfaces. Remaining plate surfaces shall have a roughness average (Ra) of 250µin or less. Grinding equipment shall be approved by the Engineer. The grinding operation shall not gauge the girder.
- The girder plates at the grinding locations shall be inspected using non-destructive testing according to the Special Provision for "Structural Steel Repair". Any cracks found shall be identified and reported to the Bureau of Bridges and Structures for further disposition.

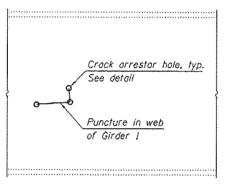


# EXISTING BOTTOM FLANGE DEFORMATION TO BE HEAT STRAIGHTENED

(Looking North at Girder 1)

(Approximate max, displacement at flange transition ±18'-0" west of Pier 2)

Deformed length of flange to be straightened is approximately 2'-6"



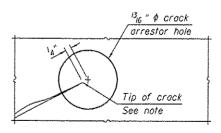
#### WEB PUNCTURE DETAIL

(Looking South at Girder 1)

(Web puncture at approx. ±39'-0" west of Pier 2.)

Note:

Damaged portion of web at puncture shall be straightened prior to drilling the crack arrestor holes. After straightening, the horizontal projection of the damaged portion of the web shall be no greater than  $\frac{1}{16}$ ". Straightening may be accomplished by heat or mechanical means. Cost included with "Structural Steel Repair".



# CRACK ARRESTOR HOLE DETAIL

Note:

(3 Locations)

Locate crack tip using non-destructive testing, according to the Special Provision for "Structural Steel Repair", Drill  $^{13}_{16}$ "  $\phi$  crack arrestor hole at the crack tip. After crack orrestor hole has been drilled, non-destructive testing shall be used to verify that the drilled

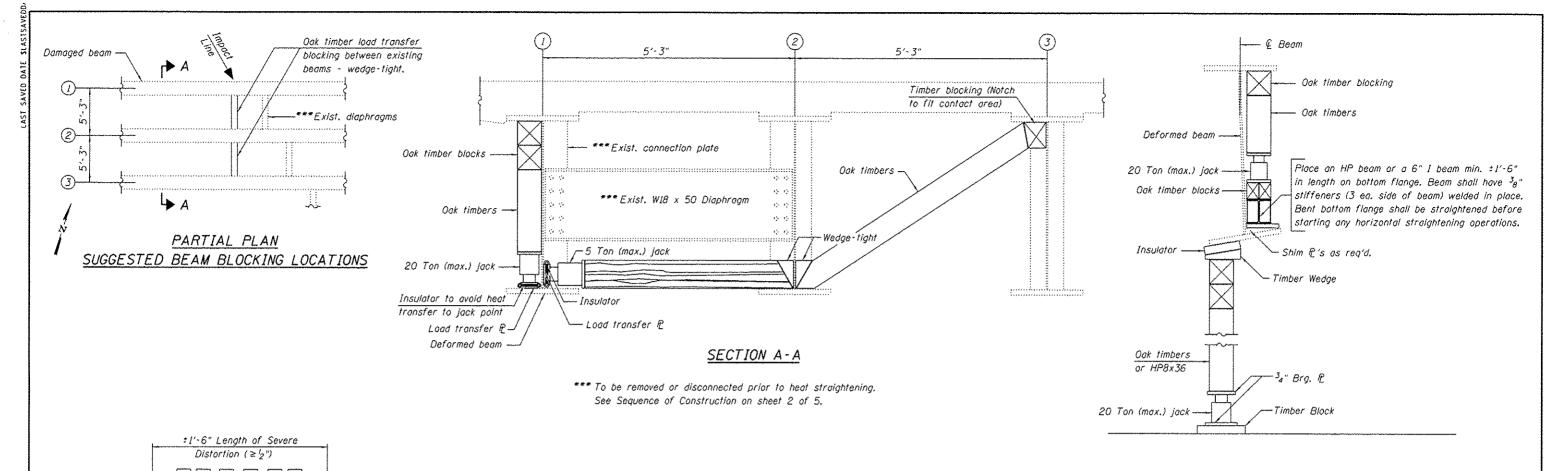
whks mgareen + planners + land surveyors

USER NAME . #USER#	DESIGNED -	REVISED	
FILE NAME . AFILES.	CHECKED -	REVISED	
PLOT SCALE . *SCALE*	DRAWN ~	REVISED	
PLOT DATE DATES	CHECKEO -	REVISED	

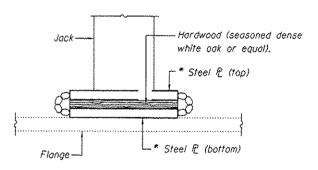
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENER	AL DATA	
STRUCTURE	NO. 016-0204	
C., CC		

F.A.I. SECTION COUNTY TOTAL SHEE SHEETS NO. 90/94 2017-009-B-R COOK CONTRACT NO. 62F08

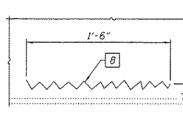


# VERTICAL STRAIGHTENING DETAIL



## SAMPLE INSULATOR

\* Top & bottom plates may be attached with cable or chain to aid handling.



# BOTTOM FLANGE HEATING PATTERN (Looking at bottom flange)

End heat at

flange edge

Start heat

at apex

# WEB LINE HEAT (Looking East)

#### Notes:

Edge of

flange

- The details shown on this sheet are for example purposes only.
   The final details shall be approved by the Department in accordance with the Special Provision for "Beam Heat Straightening".
- \*\* 6 patterns are shown for the example, but the actual number shall be based on the deformation size and severity. Patterns should be placed on greatest distortion, and patterns in a subsequent series should be offset.
- \*\* [] thru [6] "V" heat
- 7 Line heat on flange
- 8 Line heat on web

# TYPICAL HEAT PATTERN

# whks

Use serpentine motion

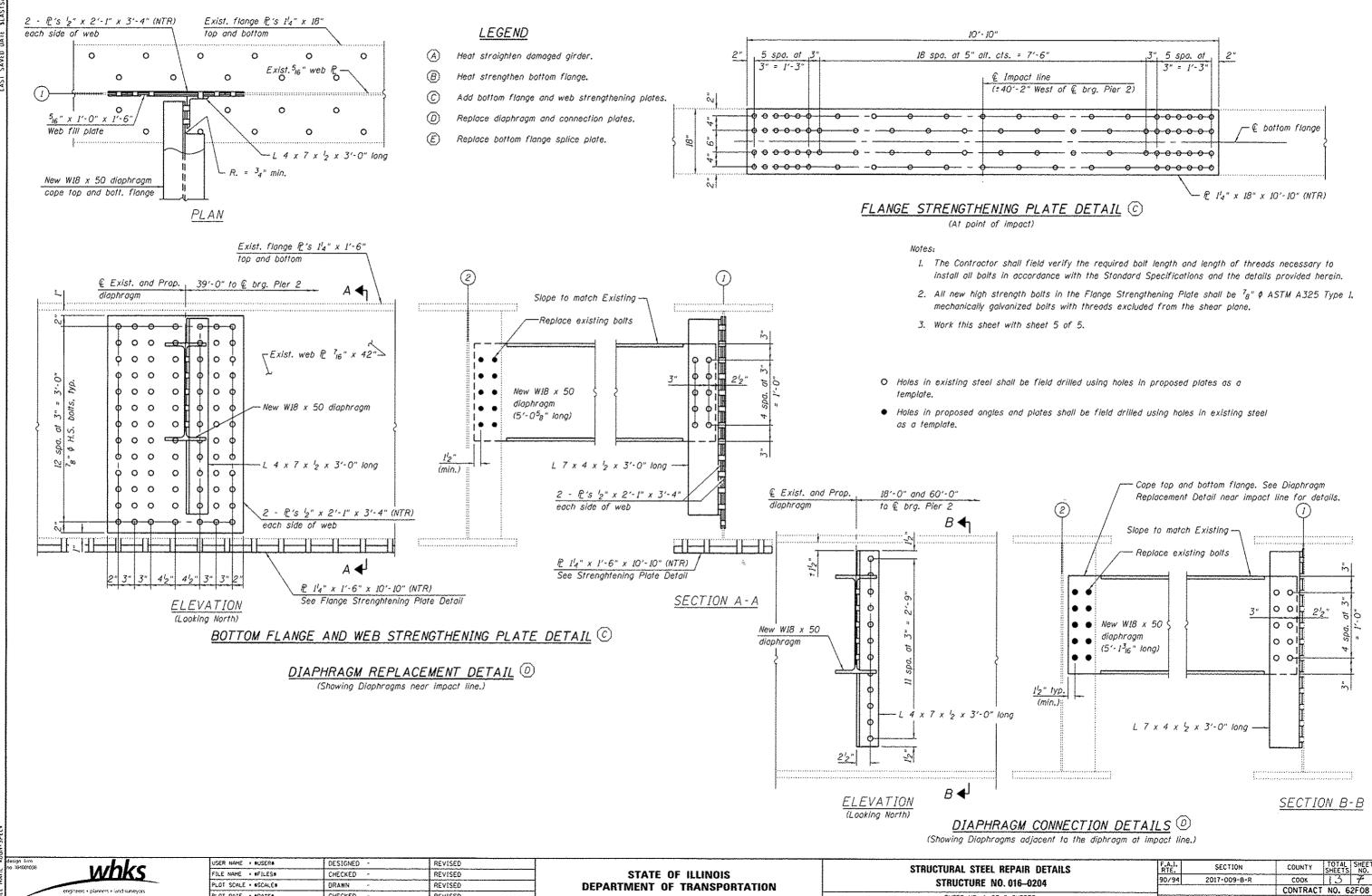
Do not cross path.

from apex to flange edge.

 USER NAME = #USER#	DESIGNED -	REVISED
FILE NAME . *FILES*	CHECKED -	REVISED
PLOT SCALE : SSCALES	DRAWN -	REVISED
PLOT DATE . SOATES	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| SECTION | COUNTY | TOTAL | SNEET | STRUCTURE NO. 016-0204 | SHEET | NO. 3 OF 5 SHEETS | SHE

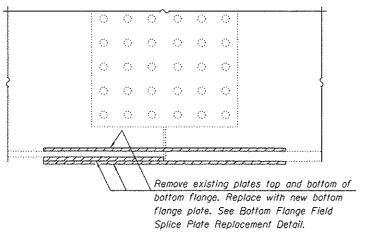


SHEET NO. 4 OF 5 SHEETS

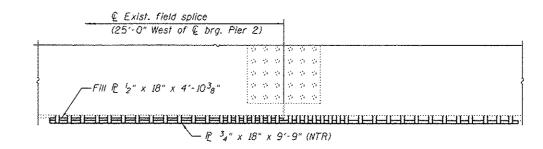
PLOT DATE . . DATES

CHECKED

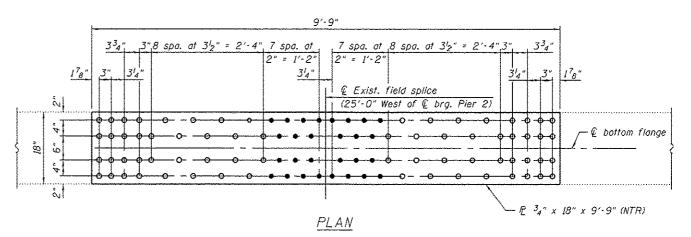
REVISED



FIELD SPLICE BOTTOM FLANGE © SPLICE PLATE REMOVAL



# ELEVATION (Looking South)



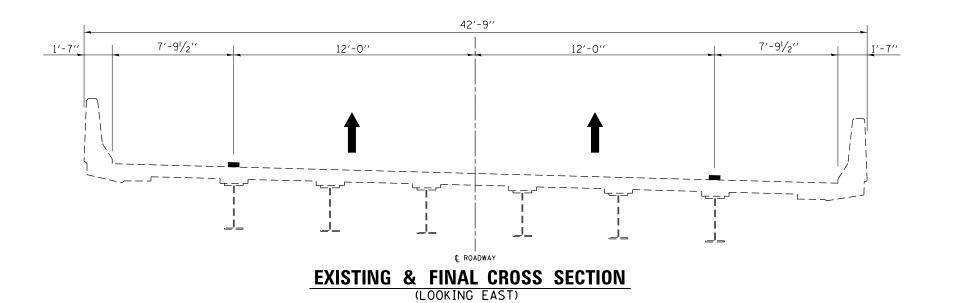
# BOTTOM FLANGE FIELD SPLICE (E) PLATE REPLACEMENT DETAIL

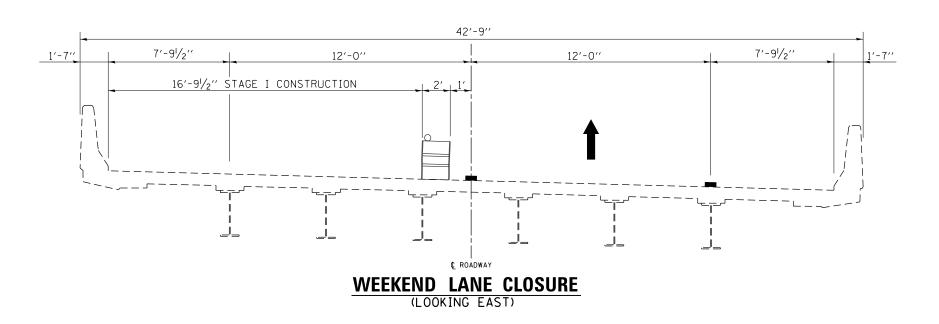
#### Notes:

- The Contractor shall field verify the required bolt length and length of threads necessary to install all bolts in accordance with the Standard Specifications and the details provided herein.
- 2. All new high strength bolts in the Bottom Flange Field Splice Plates shall be  $^{7}8$ "  $\phi$  ASTM A325 Type 1. mechanically galvanized bolts with threads excluded from the shear plane.
- 3. Work this sheet with Sheet 4 of 5.

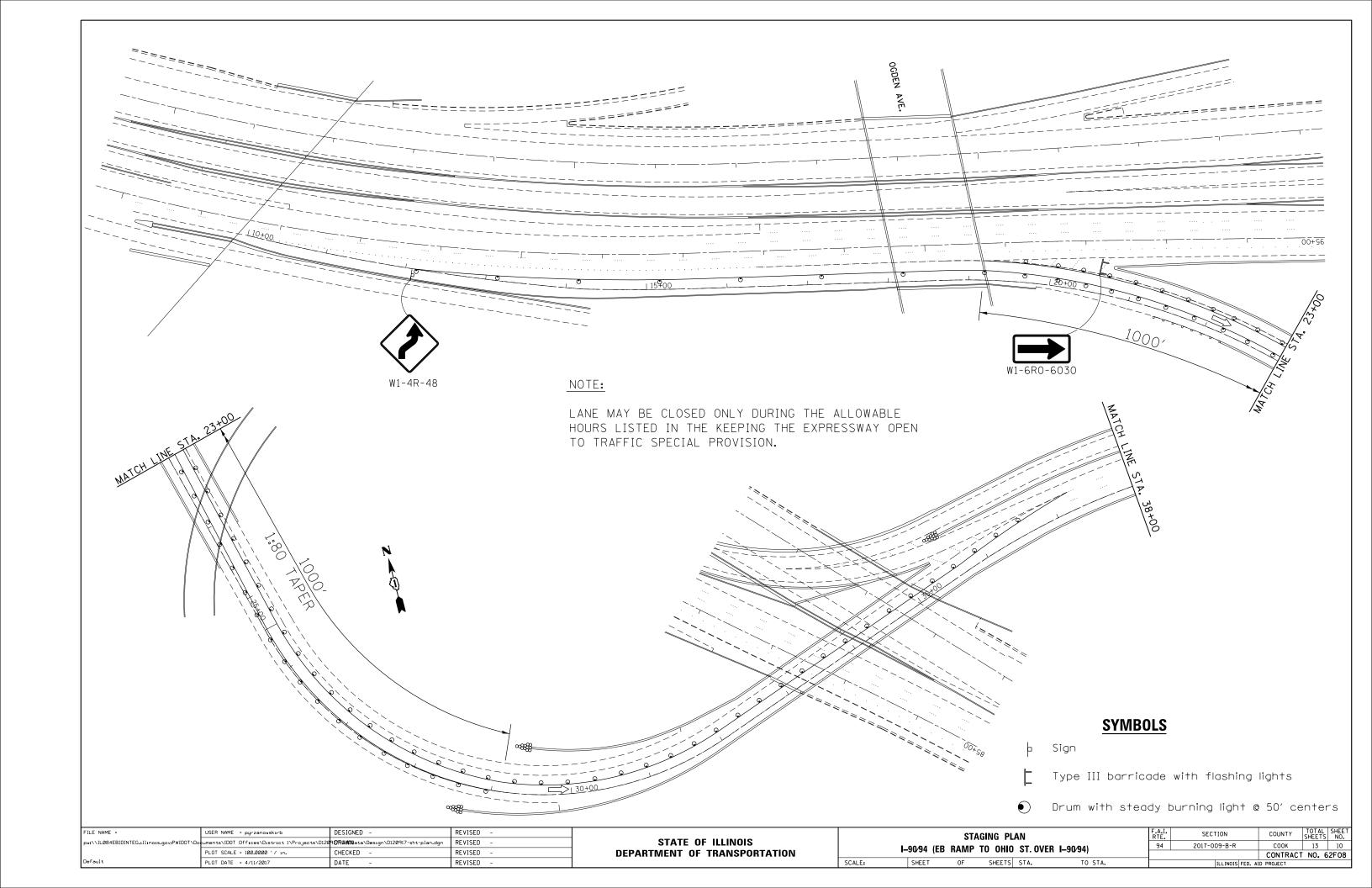
whks

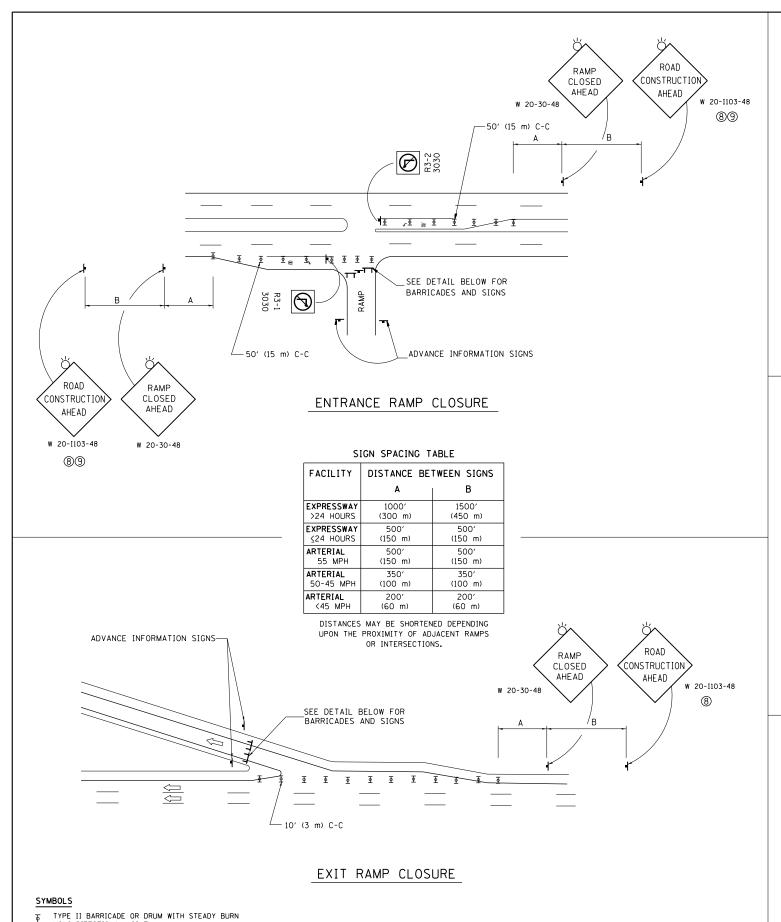
USER NAME + #USER#	DESIGNED -	REVISED
FILE NAME	CHECKED -	REVISED
PLOT SCALE * *SCALE*	DRAWN -	REVISED
PLOT DATE + *DATE*	CHECKED -	REVISED





Γ	FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -				TVPI	CAL SECTIO	N.		F.A.I.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	ow:\\IL084EBIDINTEG.:111:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D120	91 <b>0RAWIN</b> ata\Design\D120917-sht-plan.dgn	REVISED -	STATE OF ILLINOIS		I 00/0/ /EB			ST. OVER 1–9	00/0/1\	94	2017-009-B-R	СООК	13 9
		PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		I-9U/94 (CD	NAIVIE	то опто з	SI.UVEN I-S	90/94)			CONTRAC	T NO. 62F08
	Default	PLOT DATE = 4/11/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS S	TA.	TO STA.		ILLINOIS FED. AI	PROJECT	



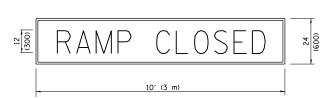


TYPE III BARRICADE WITH 2 FLASHING LIGHTS

# THE "RAMP CLOSED" SIGN SHALL BE B/W WITH 8 (200) CAPS. FLASHER UNIT AMBER BOTH SIDES OF EACH TYPE III BARRICADE A\* (1.2 m) CLOSED \*\*\* CLOSED \*\*\* PS-1-4848 R5-1-4848

DETAIL FOR REQUIRED BARRICADES & SIGNS

#### RAMP CLOSURE ADVANCE INFORMATION SIGN



RAMP CLOSURE ADVANCE WARNING SIGN

BACKGROUND MOUNTED

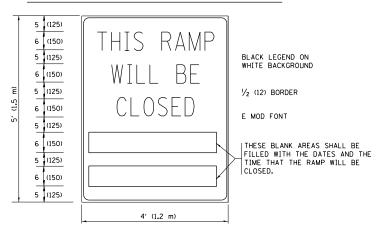
DIAGONALLY

E MOD FONT

1 (25) BORDER
SIGNS ARE REQUIRED ON ALL THE EXIT

THESE SIGNS ARE REQUIRED ON ALL THE EXIT
GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE
CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

BLACK LEGEND ON ORANGE



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

#### GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II
  BARRICADES DURING DAY OPERATIONS. CONES SHALL BE
  A MINIMUM OF 28 (700) HIGH.
- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- (3) A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- (3) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- (7) THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

FILE	NAME =	USER NAME = pyrzanowskirb	DESIGNED - DWS	REVISED -	JAF 02-06			ENTRANCE AND EXIT RAMP	F.A RTF	SECTION	COUNTY CHEETS	SHEET NO.
pw://	NL084EBIDINTEG.1111no1s.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D120910R@#IDocuments\Diststd.dgn		9 <b>DRAMIN</b> ata\Design\Diststd.dgn	REVISED -	SPB 01-07	STATE OF ILLINOIS				2017-009-B-R	COOK 13	11
		PLOT SCALE = 100.0000 ' / in. CHECKED -		REVISED -	SPB 12-09	DEPARTMENT OF TRANSPORTATION	CLOSURE DETAILS			TC-08	CONTRACT NO. 62F08	
	PLOT DATE = 4/11/2017 DATE - 02-83		REVISED -	MD 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST, NO. 1 ILLINOIS FED. AID		ID PROJECT		

