



INDEX OF SHEETS

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DISTRICT ONE STANDARDS

BD-32	BUTT .	JOINT	AND	HMA	TAPER	DETAILS

DESCRIPTION

- TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, TC-10 INTERSECTIONS, AND DRIVEWAYS
- TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT TC-11 MARKERS (SNOW-PLOW RESISTANT)
- DISTRICT ONE TYPICAL PAVEMENT MARKINGS TC-13
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS TC-14 (TO REMAIN OPEN TO TRAFFIC)
- SHORT-TERM PAVEMENT MARKING LETTERS AND SYMBOLS TC-16
- TC-22 ARTERIAL ROAD INFORMATION SIGN
- TC-26 DRIVEWAY ENTRANCE SIGNING

HIGHWAY STANDARDS

STANDARD NO. DESCRIPTION

STANDARD NO.

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 420001-09 PAVEMENT JOINTS 420401-12 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB 606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER 606301-04 PC CONCRETE ISLANDS AND MEDIANS 610001-08 SHOULDER INLET WITH CURB OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) to 24" (600 mm) 701101-05 FROM PAVEMENT EDGE LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., 701426-09 FOR SPEEDS ≥ 45 MPH URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH 701601-09 NONTRAVERSABLE MEDIAN URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH 701611-01 MOUNTABLE MEDIAN 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION 701901-07 TRAFFIC CONTROL DEVICES TEMPORARY CONCRETE BARRIER 704001-08 GUARDRAIL AND BARRIER WALL REFLECTOR 782006 MOUNTING DETAILS

- **GENERAL NOTES**
- 1 REQUIRED
- 2. INSTALLED
- 3. LOCAL MUNICIPALITY
- 4. OWN EXPENSE
- 5. WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT
- 6.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. 7.
- 8.
- TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- BID FOR THE WORK.

- 14. BY THE ENGINEER PRIOR TO CONCRETE REMOVAL.
- PERFORMED PRIOR TO BEGINNING REMOVALS
- 16. PERMANENT PAVEMENT MARKINGS.

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& ASSOCIATES LLC		DRAWN - DMW	REVISED -	STATE OF ILLINOIS	
CONSULTING ENGINEERS	PLOT SCALE = 40.0000 ' / in.	CHECKED - SPF	REVISED -	DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDA
184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2018	REVISED -		SHEET 1 OF 1 SHEETS

BEFORE STARTING ANY EXCAVATION. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION

NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

10. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL

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

12. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO HOURS FROM THE TIME OF NOTIFICATION

13. UNLESS OTHERWISE NOTED IN THE PLANS OR CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL SURVEY THE TOP OF RAIL OF EACH RAILROAD TRACK A MINIMUM OF 1000-FT ON EACH SIDE OF THE OVERPASS STRUCTURE IN 50' INCREMENTS BEFORE BEGINNING CONSTRUCTION, AND COMPARE IT TO THE ALIGNMENT AND THE TOP OF RAIL PROFILES SHOWN ON THE PLANS. ALL DISCREPANCIES BETWEEN SURVEY AND INFORMATION SHOWN IN THE PLANS SHALL BE NOTED AND BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE RAILROAD PRIOR TO CONSTRUCTION. IN ADDITION, UPON COMPLETION OF FACH STRUCTURE THE CONTRACTOR SHALL MEASURE THE RESULTING HORIZONTAL AND VERTICAL CLEARANCES AND SUBMIT THEM TO THE ENGINEER FOR REVIEW AND INCLUSION IN THE RECORD DRAWINGS. THIS WORK SHALL BE INCLUDED IN THE COST OF CONSTRUCTION LAYOUT.

PROTECTIVE SHIELD SHALL BE INSTALLED IN ALL AREAS INVOLVING CONCRETE REMOVAL TO PREVENT DEBRIS FROM ENTERING RAILROAD RIGHT OF WAY. THE LOCATIONS SHALL BE REVIEWED AND APPROVED

15. ALL SAW CUTTING REQUIRED SHALL BE INCIDENTAL TO CORRESPONDING PAY ITEMS AND SHALL BE

THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGI, IDOT'S AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT DON CHIARUGI@ILLINOIS.GOV, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF

BRIDGE REHABILITATION		SECT	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
ARDS AND GENERAL NOTES	860	12VB-BR(16)			KANE/KENDALL	65	2
ARDS, AND GENERAL NOTES					CONTRACT	NO. 62	2D43
S			ILLINOIS	FED. AI	D PROJECT		

				CONSTRUC	TI
				NHPP & STATE	М
				80% FED 20% STATE	
CODE			TOTAL	ROADWAY	+
NO.	ITEM	UNIT	QUANTITY	0013	
20200100	EARTH EXCAVATION	CU YD	257	257	
28100101	STONE RIPRAP, CLASS A1	SQ YD	88	88	Ļ
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	68	68	Ļ
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	484	484	
					$\left \right $
35102300	AGGREGATE BASE COURSE, TYPE B 11"	SQ YD	298	298	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	521	521	
					+
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	81	81	Ļ
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT LOINT	SO YD	66	66	
10000302					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	98	98	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	382	382	
44000100	PAVEMENT REMOVAL	SQ YD	638	638	
44000155		SO YD	1 159	1 159	
	TOT-MIX ASTIALT SONTACE NEWOVAE, 1.5		1,150	1,150	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,058	1 , 058	$\left \right $
44003100	MEDIAN REMOVAL	SQ FT	3,675	3 , 675	Ť

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397	USER NAME = jpang	DESIGNED - JKP	REVISED -		ILLINOIS ROUTE 31 OVER BASE				
		DRAWN - DMW	REVISED -	STATE OF ILLINOIS					
	PLOT SCALE = 40.0000 ' / in.	CHECKED - SPF	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMIMART OF QU				
	PLOT DATE = 8/13/2018	DATE - 08-10-2018	REVISED -		SCALE: N/A SHEET 1 OF 7 SHEETS				

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80% FED 20% STATE					
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BRIDGE REHABILITATION	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
JANTITIES	860	12VB-BR(16)	KANE/KENDALL	65	3
s		ILLINOIS FED. AI	D PROJECT	NU. 62	U43

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					-	80% FED	80% FED
	1					20% STATE ROADWAY	20% STATE STRUCTURE
NO .		ITEM		UNIT	QUANT I TY	0013	0013
4400425	0 PAVED SHOULDER REMOVAL			SQ YD	225	225	
4830050	0 PORTLAND CEMENT CONCRETE SH	HOULDERS 10"		SQ YD	225	225	
5010240	0 CONCRETE REMOVAL			CU YD	70.1		70.1
5015730	0 PROTECTIVE SHIELD			SQ YD	805		805
5030022	5 CONCRETE STRUCTURES			CU YD	32.1		32.1
5030025					70.3		70.2
5050025					/9.5		/9.5
5030026	0 BRIDGE DECK GROOVING			SQ YD	2,932		2,932
5030030	0 PROTECTIVE COAT			SQ YD	1,109		1,109
5030135	0 CONCRETE SUPERSTRUCTURE (AF	PPROACH SLAB)		CU YD	291		291
5050040	5 FURNISHING AND ERECTING STR	RUCTURAL STEEL		POUND	28,880		28,880
5080020	5 REINFORCEMENT BARS, EPOXY C	COATED		POUND	105,290		105,290
5080051	5 BAR SPLICERS			EACH	348		348
5200011	PREFORMED JOINT STRIP SEAL			FOOT	405		405
5210001	0 ELASTOMERIC BEARING ASSEMBL	Y, TYPE I		EACH	36		36
ng	DESIGNED - JKP REVI DRAWN - DMW REVI	ISED -	STATE OF ILL	INOIS		ILLINOIS ROUTE 31 OVER BN	$\mathbf{A} = \mathbf{S}^{PECIALIY}$

CHASTAIN	USER NAME = jpang	DESIGNED - JKP	REVISED -		ILLINOIS ROUTE 31 OVER B					
& ASSOCIATES LLC		DRAWN - DMW	REVISED -	STATE OF ILLINOIS						
CONSULTING ENGINEERS	PLOT SCALE = 40.0000 ' / in.	CHECKED - SPF	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMMARY UF					
184-001397	PLOT DATE = 8/13/2018	DATE - 08-10-2018	REVISED -		SCALE: N/A	SHEET 2 OF 7 SHEE				

ipang		DESIGNED - JKP	REVISED -						F.A.P	SECTION	COUNTY	TOT/
۴ [00300330	JUL DIST USAL ANALTSIS					T	× = SPECIALTY	ITEMS			
 	67100100				EACH		1					
k	66900450	450 SPECIAL WASTE PLANS AND REPORTS				1	1					
	67000400	ENGINEER'S FIELD OFFICE,	, TYPE A		CAL MO	12	12					
:	66900200	NON-SPECIAL WASTE DISPOS	AL		CU YD	230	230					
	66201120	CONCRETE SHOULDER CURB			FOOT	24	24					
	61000115	IYPE E INLEI BOX, STANDA	4KD 610001		EACH	4	4					
	61000115				FACIL		4					
	60603500	COMBINATION CONCRETE CUR	RB AND GUTTER, TYPE B-	6.06	FOOT	880	880					
	60619200	CONCRETE MEDIAN, TYPE SE	3-6.06		SQ FT	988	988					
	60618300	CONCRETE MEDIAN SURFACE,	, 4 INCH		SQ FT	2679	2679					
	60260100	INLETS TO BE ADJUSTED			EACH	1	1					
	60100945	PIPE DRAINS 12"			FOOT	16	16					
	C0100045					10	16					
	55100500	STORM SEWER REMOVAL 12"			FOOT	16	16					
	52100520	ANCHOR BOLTS , 1"			EACH	22		22				
	52100510	ANCHOR BOLTS, 3/4"			EACH	24		24				
	52100505	ANCHOR BOLTS, 5/8"			EACH	96		96				
	52100020	ELASTOMERIC BEARING ASSE	EMBLY, TYPE II		EACH	12		12				
	NO .		ITEM		UNIT	QUANTITY	0013	0013				
Г	0005					TOTAL	80% FED 20% STATE ROADWAY	80% FED 20% STATE				
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CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397	USER NAME = jpang	DESIGNED _ JKP	REVISED _		III INOIS BOUTE 31 OVER BASE				
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NO.	ITEM	UNIT	QUANTITY	0013	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,372	1,372	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	451	451	
					┢
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	156	156	Ţ
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	11,870	11,870	╞
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2.102	2.102	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	62	62	
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	89	89	╞
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	25,412	25,412	
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	670	670	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	837.5	837.5	\vdash
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	787.5	787.5	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					-
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	T
70600330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
78000100	THERMORI ACTIC DAVEMENT MARKING LETTERS AND SYMPOLS		156	156	╞
/8000100	INERIMUPLASTIC PAVEMENT MARKING - LETTERS AND SYMBULS	SQ FI	120	021	
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184-001397		PLOT DATE = 8/13/2018	DATE -	08-10-2018	REVISED -		SCALE: N/A	SHEET	4	OF	7 5	SHEE.

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	860	12VB-BR(16)	KANE/KENDALL	65	
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		ITEM	UNIT		0012	
	NO.			QUANTITI	0013	-
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10,069	10,069	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	475	475	
1						
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	62	62	
⊥ 	7000004			1 002	1.000	\vdash
	78009004	MODIFIED UREIHANE PAVEMENT MARKING - LINE 4"	FOOT	1,892	1,892	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	FACH	36	36	
	,0100100					
	78100300	REPLACEMENT REFLECTOR	EACH	118	118	
	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	136	136	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	36	36	
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4,810	4,810	
*	X2700003	GROOVING FOR RECESSED PAVEMENT MARKING, 8"	FOOT	240	240	
*	X2700005	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 7"	FOOT	240	240	
	X6050700	REMOVE INLET BOX	EACH	4	4	
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
	¥7015005			FC	EC	
	×1012002	CHANGEADLE MESSAGE SIGN	CAL DAY	סכ	90	
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184-001397		PLOT DATE = 8/13/2018	DATE -	08-10-2018	REVISED -		SCALE: N/A	SHEET 5	OF 7	SHEE	

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BRIDGE REHABILITATION	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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DESIGNED - JKP REVISED -		Т	ILLINOIS ROUTE 31 OVER BNS	BRIDGE REHABILITATION	F.A.P RTE. SECTION	COUNTY
				★= SPECIALTY I	I EMS	
MODULAR EXPANSION JOINT 6"	FOOT	135		135		
TEMPORARY INFORMATION SIGNING	SQ FT	152	152			
 DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	110		110		
		1	1			
		1	1			
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	248		248		
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT	535		535		
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	2,292		2,292		
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	2,292		2,292		
APPROACH SLAB REMOVAL	SO YD	439		439		
SINUCIURAL SIEEL KEMUVAL	POUND	11,010		11,010		
	DOLIND	11 610		11 610		
JACK AND REMOVE EXISTING BEARINGS	EACH	71		71		
RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	118	118			
WIDTH RESTRICTION SIGNING	L SUM	1	1			
TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	14,029	14,029			
ITEM	UNIT	QUANTITY	0013	0013		
		тота	20% STATE ROADWAY	20% STATE STRUCTURE		
				80% FFD		
	ITEM ITEM ITEMPORARY PAVEMENT MARKING REMOVAL ITEMPORARY PAVEMENT MARKER, REFLECTOR REMOVAL ITEMPORARY INFORMATION SIGNING	ITEM UNIT Important providement marking removal S0 FT WIDTH RESTRICTION SIGNING L SUM WIDTH RESTRICTION SIGNING L SUM RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL EACH JACK AND REMOVE EXISTING BEARINGS EACH JACK AND REMOVE EXISTING BEARINGS EACH JACK AND REMOVAL POUND STRUCTURAL STEEL REMOVAL S0 YD APPROACH SLAB REMOVAL S0 YD BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES S0 YD STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) S0 YD STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) S0 YD GUINTRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) S0 YD CONSTRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) S0 YD ITEMPORARY INFORMATION SIGNING S0 YD ITEMPORARY INFO	ITEM UNIT OTATL OUTIN ITEM IN INTEN TEMPORARY PAVEMENT MARKING REMOVAL IN IN ITEM PAVEMENT MARKING REMOVAL IN IN WIDTH RESTRICTION SIGNING IN IN RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL EACH IN IACK AND REMOVE EXISTING BEARINGS EACH IN IACK AND REMOVE EXISTING BEARINGS EACH IN IACK AND REMOVE EXISTING BEARINGS IN IN <tr< td=""><td>ITEM TOTAL QUANT TOTAL QUANT READWAY QUANT 1 0.3 1 0.3 1 0.3 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 1.4</td><td>Firsterne beta interval in</td><td></td></tr<>	ITEM TOTAL QUANT TOTAL QUANT READWAY QUANT 1 0.3 1 0.3 1 0.3 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 1.4	Firsterne beta interval in	

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	& ASSOCIATES LLC CONSULTING ENGINEERS	PLOT SCALE = 40.0000 ' / in.	CHECKED - SPF	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMMARY OF				
йĒ	184-001397	PLOT DATE = 8/13/2018	DATE - 08-10-2018	REVISED -		SCALE: N/A	SHEET 6	OF	7	SHE
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						CONSTR	RUCTION CODE		
						NHPP & STA	TE MAINTENANCE		
						80% FED 20% STATE	80% FED 20% STATE		
CODE			- • 4		TOTAL	ROADWAY	STRUCTURE		
NO .		IT	EM		QUANTITY	0013	0013		
Z0048665	5 RAILROAD PROTECTIVE L	IABILITY INSURANCE		L SUM	1		1		
Z0062456	6 TEMPORARY PAVEMENT			SQ YD	374	374			
Z0073200	0 TEMPORARY SHORING AND	CRIBBING		EACH	1		1		
ð 20076600) TRAINEES			HOUR	500	500			
Ø Z0076604	4 TRAINEES TRAINING PROGR	AM GRADUATE		HOUR	500	500			
= jpang	DESIGNED - IKP	REVISED -					\emptyset 0042 \star = SPECIALTY I	TEMS	
= 40.0000 ' / in.	DRAWN - DMW CHECKED - SPF	REVISED - REVISED -	STA DEPARTMEN	TE OF ILLINOIS T OF TRANSPORTATI	ON	SUMMARY	OF QUANTITIES	860 12VB-BR(16)	KANE/KENDALL 65 CONTRACT NO. 62D4

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS	USER NAME = jpang PLOT SCALE = 40.0000 ' / in.	DESIGNED - JKP DRAWN - DMW CHECKED - SPF	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 31 OVE SUMMA				
184-001397	PLOT DATE = 8/13/2018	DATE - 08-10-2018	REVISED -		SCALE: N/A	SHEET 7 OF 7 S			



LOT SCALE = 10.0000 ' / in. CHECKED -SPF LTING ENGINEERS 184-001397 PLOT DATE = 8/10/2018 DATE 08-10-2018

REVISED

DEPARTMENT OF TRANSPORTATION SCALE: NONE SHEET 1 OF 2 SHEET

A	EX COMPOSITE PAVEMENT 1-1/2" HMA SURFACE 1-1/2" HMA BINDER 10" PCC CONCRETE BAS
В	EX HMA SHOULDER
C	EX CONCRETE SHOULDER
\bigcirc	EX B-6.06 CURB AND GUTTER
E	EX CONCRETE (SB) MEDIAN
F	EX HMA MEDIAN
G	EX SUBBASE

BRIDGE REHABILITATION	F.A.P RTE	SECT	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
I SECTION	860	12VB-BR(16)			KANE/KENDALL	65	10
	CONTRACT NO. 62D43						2D43
S STA. 140+90.3 TO STA. 146+31.5	ILLINOIS FED. AID PROJECT						



	HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT						
OPERATION	MIXTURE TYPE	AIR VOIDS @ NDES	PROGRAM (QMP)						
PAVEMENT AND SHOULDER	HMA SURFACE COURSE, MIX "D", N70, (IL 9.5 mm), 1 1/2"	4% @ 70 GYR.	QC / QA						
RESURFACING	LEVELING BINDER (MACHINE METHOD), N70, (IL 9.5 nm), 3/4" - 1-1/2"	4% @ 70 GYR.	QC/QA						
TEMPORARY PAVEMENT	HMA SURFACE COURSE, MIX "D", N70, (IL 9.5 mm), 2"	4% @ 70 GYR.	QC/QA						
(SEE NOTE 5)	TEMP PAVEMENT (HMA BINDER IL-19 mm), 7"	4% @ 70 GYR.	QC/QA						
QMP DESIGNATIONS: Q	QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA);								

- 3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
- HMA MIXTURE.

184-001397

LOT DATE = 8/10/2018

DATE

08-10-2018

REVISED

PROPOSED LEGEND

- HOT-MIX ASPHALT SURFACE (1)COURSE, MIX "D", N70, 1-1/2"
- LEVELING BINDER (MACHINE 2 METHOD), N70, (IL 9.5 mm), 3/4" - 1-1/2"
- CONCRETE MEDIAN, TYPE SB-6.06
- HMA SHOULDER OVERLAY: -HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2" -LEVELING BINDER (MACHINE METHOD), N70, (IL 9.5 mm), 3/4" - 1-1/2"
- 5 PCC SHOULDER, 10"
- COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06
- CONCRETE MEDIAN SURFACE, 4"
- AGGREGATE BASE COURSE, TYPE B, 11"
- SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- PAVEMENT CONNECTOR (PCC) STD 420401



MIXTURES TABLE

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON -POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE

THE PCC TEMPORARY PAVEMENT OPTION SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF SECTION 1020 OF THE STANDARD SPECIFICATIONS, THICKNESS SHALL BE 8". TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS. ALL TEMPORARY PAVEMENT SHALL BE PROVIDED OVER A 4" SUBBASE GRANULAR MATERIAL, TYPE B.

В	BRIDGE REHABILITATION					SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
AL SECTION				860	12VB-8	BR(16)		KANE/KENDALL	65	11	
								CONTRACT	NO. 62	2D43	
5 STA. 135+40.00 TO STA. 146+31.5						ILLINOIS	FED. A	ID PROJECT			

	ALIGNMENT	COORDINATES - IL RTE	31	EXIST. CURVE CL31-5	EXIST. CURVE CL31-4	EXIST CURVE CL31-3	
	STATION	N 1941127 0767	E	PI STA. = 152+98.46	PI STA. = 136+14.61	PI STA. = 131+53.00	EXIST. CURVE CL31-2 PL STA - 127+37-39
	125+31.63	1841050.6115	978522.6773	$\Delta = 5.55.05$ (RT) D = 0° 42' 58"	$\Delta = 8^{\circ} 04' 37'' (LT)$ $D = 1^{\circ} 36' 30''$	$\Delta = 7^{\circ} 05' 46'' (LT)$	$\Delta = 8^{\circ} 44' 13'' (LT)$
CC I	127+37.39	1840960.3584	978482.5656	R = 7,999.99'	R = 3,562.39'	R = 3,397.18'	$D = 2^{\circ} 07' 38''$ B = 2.693.52'
CC	131+53.00	1840573.7859	978344.9620	I = 387.82 L = 775.02	T = 251.51	T = 210.64	T = 205.76
I CC	133+63.10 136+14.61	1840371.3252 1840163.6225	978289.8593	E = 9.39'	E = 8.87	E = 420.74 E = 6.52'	L = 410.73'
I	138+65.29	1839911.7126	978223.9843	e = T.R. =	е = тв -	e =	e =
PT	149+10.64 152+98.46	1839657.2285	978223.8196	S.E. RUN =	S.E. RUN =	S.E. RUN =	T.R. =
°C	156+85.67	1837842.6561	978184.9322	P.C. STA = 149+10.64 P.T. STA = 156+85.67	P.C. STA. = 133+63.10	P.C. STA. = $129+42.36$	P.C. STA. = $125+31.63$
10	16/+/3.56	1836/59.6931	9/80/8.6958		F.I. SIA. = 156+05.29	P.I. SIA. = $133+63.10$	P.T. STA. = 129+42.36





ELEV. 675.163

E 978261 137 ELEV 676 316



CHASTAIN	USER NAME = jpang	DESIGNED -	JKP	REVISED -			II I IN		TE 31 01			REHARI	ΙΙΤΑΤΙΟΝ	F.A.P PTE	SECTION	C	OUNTY TO	OTAL S	SHEET
& ASSOCIATES LLC CONSULTING ENGINEERS		DRAWN -	DMW	REVISED -	STATE OF ILLINOIS							860	12VB-BR(16)	KAN	E/KENDALL	65	12		
	PLOT SCALE = 400.3998 ' / in.	CHECKED -	SPF	REVISED -	DEPARTMENT OF TRANSPORTATION	ALIGNWENT, HES AND BENCHWARKS						C	ONTRACT N	10. 621	D43				
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	200	SHEET	1 OF	1 SHEE	TS STA.	123+00	D TO STA. 167+73.56	;	ILLINOIS	FED. AID PRO	DJECT		

EXIST. CURVE CL31-1
$\Delta = 5^{\circ} 47' 39'' (LT)$
D = 2° 30' 06"
R = 2,290.38'
T = 115.91
L = 231.63
E = 2.93'
e =
T.R. =
S.E. RUN =
P.C. STA. = 123+00.00
P.T. STA. = 125+31.63



SCALE IN FEET



MODEL: \$MODELNAME\$





SUGGESTED SEQUENCE OF CONSTRUCTION & MAINTENANCE OF TRAFFIC

STAGE I

- 1.
- INSTALL STAGE I TRAFFIC CONTROL ALONG IL ROUTE 31 AND INSTALL ADVANCED WIDTH RESTRICTION SIGNAGE. SHIFT TRAFFIC WEST TO STAGE I TRAFFIC LANES. 2.
- 3.
- 4.

- 5.
- AND RESURFACING.

STAGE II 1.

- 3.
- 4.
- 5.
- 6. REMOVE STAGE II TRAFFIC CONTROL DEVICES. SHIFT TRAFFIC BACK TO NORMAL LANES ALONG ROUTE 31
- REMOVE TEMPORARY PAVEMENT, INSTALL REMAINING MEDIANS UTILIZING DAYTIME LANE CLOSURES 7.
- COMPLETE PERMANENT PAVEMENT MARKING ALONG IL ROUTE 31 UTILIZING DAYTIME LANE CLOSURES

MAINTENANCE OF TRAFFIC GENERAL NOTES:

- 1. COST OF TRAFFIC CC SPECIAL PROVISIONS.
- 2.
- 3.
- 4
- 6
- ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. 7.
- THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN.
- 9
- 10.
- 12.
- 13.
- 14.
- 15.

ILLINOIS ROUTE 31 OVER BNSF MOT TYPICAL S **DEPARTMENT OF TRANSPORTATION** SCALE: SHEET OF SHEE

REMOVE EXISTING MEDIANS ON BOTH NORTH AND SOUTH SIDES OF THE BRIDGE, PLACE TEMPORARY PAVEMENT FOR CROSSOVER AT LOCATIONS NEEDED FOR TRAFFIC STAGING UTILIZING DAYTIME LANE CLOSURES.

PERFORM BRIDGE REPAIRS ON EAST SIDE ABUTMENTS, PIERS, BEAMS, DIAPHRAMS, AND BEARINGS. REMOVE NORTHBOUND APPROACH SLABS, ADJACENT PAVEMENT AND SHOULDERS AND PLACE NEW APPROACH SLABS AND CONNECTOR PAVEMENTS.

COMPLETE NORTHBOUND BRIDGE DECK PATCHING, JOINT REPLACEMENT AND SCARIFYING AND CONCRETE OVERLAY. COMPLETE EAST SIDE DRAINAGE IMPROVEMENTS, SHOULDER, MEDIANS ADJACENT TO NEW PAVEMENT, HMA MILLING, BUTT JOINTS

INSTALL STAGE II TRAFFIC CONTROL ON IL ROUTE 31 AND REMOVE STAGE I TRAFFIC CONTROL DEVICES. SHIFT TRAFFIC EAST TO STAGE II TRAFFIC LANES.

2. PERFORM WEST SIDE BRIDGE REPAIRS ON ABUTMENTS, PIERS, BEAMS, DIAPHRAMS, AND BEARINGS. REMOVE SOUTBOUND APPROACH SLABS, ADJACENT PAVEMENT AND SHOULDERS AND PLACE NEW APPROACH SLABS AND CONNECTOR PAVEMENTS.

COMPLETE SOUTHBOUND BRIDGE DECK PATCHING, JOINT REPLACEMENT AND SCARIFYING AND CONCRETE OVERLAY.

COMPLETE WEST SIDE DRAINAGE IMPROVEMENTS, SHOULDERS, HMA MILLING, BUTT JOINT AND RESURFACING.

THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR

MAINTENANCE OF TRAFFIC WIDTH RESTRICTION REQUIREMENT - THE CONTRACTOR SHALL NOTIFY THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, IN WRITING, WHEN THE CONTRACTOR RECEIVES AN AWARD LETTER FOR THE CONTRACT. THE LETTER SHALL STATE THE ANTICIPATED START DATE OF LANE WIDTH RESTRICTIONS. THE TWENTY-ONE (21) DAY NOTICE WILL START FROM THE AWARD DATE. NO WIDTH RESTRICTIONS WILL BE ALLOWED UNTIL TWENTY-ONE (21) DAYS AFTER RECEIVING NOTICE FROM THE CONTRACTOR. THE CONTRACTOR MAY ELECT TO PROVIDE THE ANTICIPATED START DATE OF LANE WIDTH RESTRICTIONS AT PRECONSTRUCTION MEETING AS LONG AS THERE IS A MINIMUM OF TWENTY-ONE (21) DAYS ADVANCED NOTICE.

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR MAINTENANCE OF TRAFFIC.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING THE WORK.

IN ADVANCE OF ALL STAGE CHANGES ON IL ROUTE 31, THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG IL ROUTE 31 AS DIRECTED AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING STAGE CHANGE ON IL ROUTE 31. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE MAINTENANCE OF TRAFFIC SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.

TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.

11. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.

ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

WHEN THEY ARE NO LONGER NECESSARY, ALL TRAFFIC CONTROL DEVICES SHALL IMMEDIATELY BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC. W21-1 WORKER AND W20-7 FLAGGER SIGNS SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE FOR GREATER THAN ONE HOUR. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" X 6" DELINEATOR INSTALLED. THE COST OF THE DELINEATOR IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

TEMPORARY CONCRETE BARRIERS AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS SHOWN IN THE PLANS. FURNISHING, INSTALLING AND RELOCATING TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.

IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED OR OTHERWISE AFFECTED BY CONSTRUCTION. 16. ACCESS TO ALL PRIVATE AND COMMERCIAL DRIVEWAYS AND ENTRANCES ARE TO BE MAINTAINED DURING CONSTRUCTION

BRIDGE REHABILITATION				F.A.P RTE. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
ECTION			860	12VB-8	BR(16)		KANE/KENDALL	65	15
							CONTRACT	NO. 62	2D43
S STA. TO STA.				ILLINOIS	FED. A	ID PROJECT			



LOT DATE = 8/14/2018

DATE

08-10-2018

REVISED

SCALE: 1" = 50' SHEET 1 OF 4 SHEET

	FFIC -	STAGET					CONTRACT	NO.	62D
S	STA.	138+00	TO STA. 163+17		ILLINOIS	FED. A	ID PROJECT		





TO STA. 84+00





CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS	USER NAME = _USER PLOT SCALE = 100.0000 ' / in.	DESIGNED - DRAWN - CHECKED -	JKP DMW SPF	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINC	DIS ROUTE 31 Pav	1 OVER BN: /EMENT MA	SF BF ARKIN
184-001397	PLOT DATE = 8/13/2018	DATE -	08-10-2018	REVISED -		SCALE: 1" = 50'	SHEET 1	OF 2 SH	HEETS



CHASTAIN	USER NAME = _USER_	DESIGNED - JKP	REVISED -		ILLINGIS ROUTE 31 OVER BASE BRIDGE REHABILITATION	F.A.P BTE	SECTION	COUNTY TOTAL SHEET
& ASSOCIATES LLC		DRAWN - DMW	REVISED -	STATE OF ILLINOIS		860	12VB-BR(16)	KANE/KENDALL 65 21
CONSULTING ENGINEERS	PLOT SCALE = 100.0000 ' / in.	CHECKED - SPF	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 62D43
184-001397	PLOT DATE = 8/13/2018	DATE - 08-10-2018	REVISED -		SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 123+00 TO STA. 139+00		ILLINOIS FED.	AID PROJECT



DATE

08-10-2018

I Genera	I Plan and Elevation
2 Genera 3 Tempor	I Structural Data ary Concrete Barrier For Stage Construction
4 Top of	South Approach Slab Elevations
6 Bridge	Approach Slab Details
7 Briage 8 Deck P	Approach Stab Details Ian and Cross Section
9 North A 10 North A	butment Expansion Joint Details Abutment Expansion Joint Details
11 North A 12 Pier 1	Abutment Expansion Joint Details Expansion Joint Details
13 Pier 1 14 Pier 1	Expansion Joint Details Expansion Joint Details
15 South / 16 South /	Abutment Expansion Joint Details Abutment Expansion Joint Details
17 South /	Abutment Expansion Joint Details
18 Preform 19 Preform	med Joint Strip Seal - Sidewalk
20 Prefori 21 Pier 4	ned Joint Strip Seal – Sidewalk Expansion Joint Details
22 Pier 4 23 Pier 4	Expansion Joint Details Expansion Joint Details
24 Modula 25 Structu	r Joint Details Iral Steel Popair Details
26 Structu	ral Steel Repair Details
27 Bearing 28 Bearing	g Details – North and South Abutments g Details – Pier 1 North and Pier 4 South
29 Bearing 30 Bearing	g Details – Pier 1 South g Details – Pier 4 North
31 Abutme 32 Pier 1	nt Repairs Repairs
33 Pier 2	Repairs
	Repairs Repairs
36 Bar Sp	licer Assembly and Mechanical Splicer Details
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Jeren Licens	BUEINING 002-000325 Weining B/7/18 Dy Buening, P.E., S.E. Date se Expires 11/30/18
Jeren Licens	AFRENNE BUENNE DECOMPSE NY Buening, P.E., S.E. Date See Expires 11/30/18 NERAL PLAN AND ELEVATION
Jeren Licens	IL ROUTE 31 OVER
Jeren Licens N <u>BURLI</u>	NERAL PLAN AND ELEVATION IL ROUTE 31 OVER NGTON NORTHERN SANTA FE RR SECTION 12VB-BR(16)
Jeren Licens M <u>BURLI</u>	NERAL PLAN AND ELEVATION IL ROUTE 31 OVER NGTON NORTHERN SANTA FE RR SECTION 12VB-BR(16) KANE/KENDALL COUNTY
Jeren Licens	NERAL PLAN AND ELEVATION IL ROUTE 31 OVER NGTON NORTHERN SANTA FE RR SECTION 12VB-BR(16) KANE/KENDALL COUNTY STA 143+27.08
Jeren Licens	NERAL PLAN AND ELEVATION IL ROUTE 31 OVER NGTON NORTHERN SANTA FE RR SECTION 12VB-BR(16) KANE/KENDALL COUNTY STA 143+27.08 STRUCTURE NO. 047-0006
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Jeren Licens BURLI BRIDGE REHABILITATION DELEVATION	Image: Section in the section is set in the section is set in the se

TO STA.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Concrete Removal	Cu. Yd.	70.1		70.1
Protective Shield	Sq. Yd.	805		805
Concrete Structures	Cu. Yd.		32.1	32.1
Concrete Superstructure	Cu.Yd.	79.3		79.3
Bridge Deck Grooving	Sq. Yd.	2,932		2,932
Protective Coat	Sq. Yd.	1,109		1109
Concrete Superstructure (Approach Slab)	Cu. Yd.	291.0		291
Furnishing and Erecting Structural Steel	Pound	13,630	15,250	28,880
Reinforcement Bars, Epoxy Coated	Pound	93,040	12,250	105,290
Bar Splicers	Each	268	80	348
Preformed Joint Strip Seal	Foot	405		405
Elastomeric Bearing Assembly, Type I	Each		36	36
Elastomeric Bearing Assembly, Type II	Each		12	12
Anchor Bolts, 5/8"	Each		96	96
Anchor Bolts, 3/4"	Each		24	24
Anchor Bolts, 1"	Each		22	22
Jack and Remove Existing Bearings	Each		71	71
Structural Steel Removal	Pound	11,610		11,610
Bridge Deck Latex Concrete Overlay, 2 1/2 Inches	Sq. Yd.	2,292		2,292
Bridge Deck Scarification 3/4"	Sq. Yd.	2,292		2,292
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.		535	535
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.		248	248
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	110		110
Modular Expansion Joint 6"	Foot	135		135
Temporary Shoring & Cribbing	Each		1	1





GENERAL NOTES:

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 at the unit price bid for the work.

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $\frac{3}{4}$ " Ø, holes $\frac{13}{16}$ " Ø, unless otherwise noted.

All structural steel shall be AASHTO M 270 Grade 36.

Reinforcement bars designated (E) shall be epoxy coated.

No field welding is permitted except as specified in the contract documents.

Expansion joints shall be fabricated and installed according to the Manufacturer's recomendations and as approved by the Engineer.

Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.

Modular expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

Existing structural steel that will be in contact with the new structural steel shall be cleaned and painted prior to erection as required by the GBSP ("Cleaning and Painting Contact Surface Areas of Existing Steel Structures.")

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

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

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

Cost of removal and 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 with Furnishing and Erecting Structural Steel.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be reddish brown, Reddish Brown, Munsell No. 2.5YR 3/4.

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& ASSOCIATES L		DRAWN - RLK	REVISED -	STATE OF ILLINOIS	GENERAL STRUCTURAL DATA							12VB-BF	R(16)
CONSULTING ENGINEER	PLOT SCALE = 8.0000 / in	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION								SN 047-0006	
184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2018	REVISED -		SCALE:	SHEET	2 OF	36 SHEETS	STA.	TO STA.			ILLINOIS FE



DATE

SHEET 3 OF 36 SHEET

reinforcement to accommodate the installation of the retainer assemblies.

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,

B	RIDGE RE	HABILITATION	F.A.P. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO
OR STAGE CONSTRUCTION			860	12VB-B	R(16)		KANE/KENDALL	65	24
			SN 047-0006				CONTRACT	NO. 62	2D43
5	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

WEST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
N. End of S. Appr.	145+46.03	26.00	677.33
A	145+56.03	26.00	677.27
В	145+66.03	26.00	677.17
S. End of S. Appr.	145+76.03	26.00	677.07



<u>*Ç* IL ROUTE 31 STAGE CONSTRUCTION LINE</u>

Location	Station	Offset (ft)	Theoretical Grade Elevations
N. End of S. Appr.	145+01.00	0.00	677.86
А	145+11.00	0.00	677.79
В	145+21.00	0.00	677.72
S. End of S. Appr.	145+31.00	0.00	677.65





<u>PLAN</u>

άL												
Ŧ		USER NAME = jpang	DESIGNED - BCG	REVISED -		1111	NOIS ROUTE 31 OVER BASE BRIDGE REHABILITATION	F.A.P. BTE	SECTION	COUNTY .	TOTAL	SHEET
AME	& ASSOCIATES LLC		DRAWN - RLK	REVISED -	STATE OF ILLINOIS			860	12VB-BR(16)	KANE/KENDALL	65	25
N E	CONSULTING ENGINEERS	PLOT SCALE = 20.0000 / in.	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION		TOP OF SOUTH APPROACH SLAB ELEVATIONS		SN 047-0006	CONTRACT	NO. 62	D43
Ē	184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2	2018 REVISED -		SCALE:	SHEET 4 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		-

Location	Station	Offset (ft)	Theoretical Grade Elevations
nd of S. Appr.	145+04.46	2.00	677.62
A	145+14.46	2.00	677.55
В	145+24.46	2.00	677.48
nd of S. Appr.	145+34.46	2.00	677.41

<u>SB PGL</u>

<u>NB PGL</u>

Location	Station	Offset (ft)	Theoretical Grade Elevations
nd of S. Appr.	144+97.54	-2.00	677.67
А	145+07.54	-2.00	677.60
В	145+17.54	-2.00	677.53
nd of S. Appr.	145+27.54	-2.00	677.46

EAST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
N. End of S. Appr.	144+55.97	-26.00	677.88
A	144+65.97	-26.00	677.83
В	144+75.97	-26.00	677.78
S. End of S. Appr.	144+85.97	-26.00	677.73

EAST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
N. End of N. Appr.	140+78.13	-26.00	676.98
А	140+88.13	-26.00	677.08
В	140+98.13	-26.00	677.17
S. End of N. Appr.	141+08.13	-26.00	677.26

N. End S. En

<u>*Q* IL ROUTE 31 & STAGE CONSTUCTION LINE</u>

Location	Station	Offset (ft)	Theoretical Grade Elevations
N. End of N. Appr.	141+23.16	0.00	677.60
А	141+33.16	0.00	677.67
В	141+43.16	0.00	677.75
S. End of N. Appr.	141+53.16	0.00	677.83

N. End S. End



CHASTAIN	USER NAME = jpang	DESIGNED - BCG	REVISED -		ILLINOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION		F.A.P. RTE	SECTION	COUNTY TOTA	AL SHEET	
& ASSOCIATES LLC		DRAWN - RLK	REVISED -	STATE OF ILLINOIS				860	12VB-BR(16)	KANE/KENDALL 65	5 26
CONSULTING ENGINEERS	PLOT SCALE = 20.0000 / in	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION		TOP OF NORTH AFFROACH S	LAB ELEVATIONS	_	SN 047-0006	CONTRACT NO.	. 62D43
184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2018	REVISED -		SCALE:	SHEET 5 OF 36 SHEETS	STA. TO STA.		ILLINOIS FED. A	ID PROJECT	

Location	Station	Offset (ft)	Theoretical Grade Elevations
nd of N. Appr.	141+19.70	-2.00	677.35
A	141+29.70	-2.00	677.44
В	141+39.70	-2.00	677.52
nd of N. Appr.	141+49.70	-2.00	677.60

NB PGL

<u>SB PGL</u>

Location	Station	Offset (ft)	Theoretical Grade Elevations
d of N. Appr.	141+26.62	2.00	677.41
A	141+36.62	2.00	677.49
В	141+46.62	2.00	677.58
d of N. Appr.	141+56.62	2.00	677.66

WEST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
d of N. Appr.	141+68.19	26.00	677.73
A	141+78.19	26.00	677.79
В	141+88.19	26.00	677.85
d of N. Appr.	141+98.19	26.00	677.91





CHASTAIN	USER NAME = jpang	DESIGNED -	BCG	REVISED -		ILLIN	OIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION	F A P RTE	SECTION	COUNTY	SHEETS	SHEET NO.
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINOIS			860	12VB-BR(16)	KANE/KENDALL	65	28
CONSULTING ENGINEERS	PLOT SCALE = 32,0000 ' / in.	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION	DRIDGE AFFROACH SLAD DETAILS			SN 047-0006	CONTRACT	NO. 6	.D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 7 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

DILL UN MAILRIAL										
_		- 1		- 1						
Bar	No.	Size	Length	Shape						
a10(E)	368	#5	27'-7"							
a11(E)	480	#8	28'-7"							
b10(E)	160	#5	29'-8''							
b11(E)	252	#9	29'-8''							
с(Е)	62	#5	7'-1"	٦						
c1(E)	62	#5	4'-9"	٦						
t10(E)	216	#4	19'-9"							
v100(E)	54	#5	3'-5"	Г						
w10(E)	320	#5	27'-7"							
Concrete	Superstr	ucture	Cu Vd	201.0						
(Approach	slab)		cu. ru.	291.0						
Concrete	Structur	es	Cu. Yd.	32.1						
Reinforce	ment Bai	٢s,	Dound	00.600						
Ероху Со	ated		Pouna	90,000						
Protective	e Coat		Sq. Yd.	693						
Bridge De	eck Groov	/ing	Sq.Yd.	640						

TWO APPROACHES RILL OF MATERIAL

Approach slab shall be paid for as Concrete Superstructure (Approach Slab). Approach footing concrete shall be paid for as Concrete Structures. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.Cost of excavation for approach footing included with Concrete Structures.



Item	Unit	Total
Slab Repair (Full Depth, Type II)	Sq Yd	110
ge Deck Latex Concrete Overlay, 2 $^{1}\!\!\!\!/_2$ "	Sq Yd	2,292
ge Deck Scarification,¾"	Sq Yd	2,292
ge Deck Grooving	Sq Yd	2,932
ective Coat	Sq Yd	416

BRIDGE REHABILITATION			F.A.P. RTE	SECTION		COUNTY TOTAL SHEETS		SHEET NO.	
DSS SECTION		860	12VB-BR(16)			KANE/KENDALL	65	29	
			SN 047-0006			CONTRACT	NO. 62	2D43	
S	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



<u>TING ENG</u> 184-001397

PLOT DATE = 8/10/2018

DATE

08-10-2018

SHEET 9 OF 36 SHEETS

SCALE:

BRIDGE REHABILITATION		F.A.P. RTE	SEC	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
ION IOINT DETAILS			860	12VB-BR(16)			KANE/KENDALL	65	30
DUN JUINT DETAILS			_	SN 047-0006 CONTRACT				NO. 62	2D43
S STA. TO STA.				ILLINOIS	FED. A	ID PROJECT			
_									



CHASTAIN	USER NAME = jpang	DESIGNED -	BCG	REVISED -			NOIS BOUTE 31 OVER BASE BE	RIDGE REHABILITATION	F.A.P.	SECTION	COUNTY	TOTAL SHEET
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINOIS				860	12VB-BR(16)	KANE/KENDALL	L 65 31
CONSULTING ENGINEERS	PLOT SCALE = 8.0000 / in	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION		NORTH ABUTWIENT EXPANSIC	JN JOINT DETAILS		SN 047-0006	CONTRACT	F NO. 62D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 10 OF 36 SHEETS	STA. TO STA.		ILLINOIS FED. A	ID PROJECT	



CHASTAIN	USER NAME = jpang	DESIGNED - BCG	REVISED -		ILLINOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION		F.A.I RTE	P. SECTION	COUNTY TOTAL SHEETS	SHEET NO.
& ASSOCIATES LLC		DRAWN - RLK	REVISED -	STATE OF ILLINOIS			860	12VB-BR(16)	KANE/KENDALL 65	32
CONSULTING ENGINEERS	PLOT SCALE = 8.0000 ' / in. CHECKED -	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION				SN 047-0006	CONTRACT NO. 62	2D43
184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2018	REVISED -		SCALE:	SHEET 11 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	

Bar	No.	Size	Length	Shape
a1(E)	72	#6	25'-9"	
c(E)	6	#5	7'-1"	٢
c1(E)	6	#5	4'-9"	٢
d(E)	6	#4	6'-8"	Γ
d1(E)	6	#5	3'-11"	7
x(E)	68	#5	2'-3"	
Concrete	Removal		Cu. Yd.	17.9
Concrete	Supersti	Cu. Yd.	19.9	
Reinforce	ement Ba	Pound	3 070	
Ероху Со	ated		Pouna	3,070

Bars indicated thus 2 x 3-#6 etc. indicates 2 line of bars with 3 lengths per line.



CHASTAIN	USER NAME = jpang	DESIGNED -	BCG	REVISED -		ILLING	DIS ROUTE 31 OVER BNSF BRIDGE REH	ABILITATION	F.A.P. RTE	SECTION	COUNTY S	OTAL SH HEETS	IEE
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINOIS		PIFR 1 EXPANSION JOINT DETAILS		860	12VB-BR(16)	KANE/KENDALL	65	33
CONSULTING ENGINEERS 184-001397	PLOT SCALE = 8,0000 / m. PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET 12 OF 36 SHEETS STA.	to sta.		SN 047-0006 ILLINOIS FED. AI	CONTRACT N	10. 62D	13





SECTION B-B





SECTION D-D

(Strip seal joint not shown for clarity)

SECTION C-C

(Strip seal joint not shown for clarity)

CHASTAIN -	USER NAME = jpang	DESIGNED -	BCG	REVISED -		II I IN	OIS ROUTE 31 OVER BASE BRIDGE REHABILITATION	F.A.P. BTE	SECTION	COUNTY	TOTAL SHEET
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINOIS			860	12VB-BR(16)	KANE/KENDALL	65 34
CONSULTING ENGINEERS	PLOT SCALE = 8.0000 / in	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION				SN 047-0006	CONTRACT	NO. 62D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 13 OF 36 SHEETS STA. TO STA.		ILLINOIS FED	AID PROJECT	

Existing Reinforcement





SECTION THRU BRIDGE DECK PARAPET



3'-2"

6"

<u>BAR d(E)</u>

<u>BAR d1(E)</u>





<u>BAR c(E)</u>

<u>BAR c1(E)</u>

CHASTAIN	USER NAME = jpang	DESIGNED -	BCG	REVISED -		ILLIN	IOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINUIS			860	12VB-BR(16)	KANE/KENDALL	65	35
CONSULTING ENGINEERS	PLOT SCALE = 8.0000 / in	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION		PIER 1 EXPANSION JUINT DETAILS		SN 047-0006	CONTRACT	NO. 62	D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 14 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		







SECTION THRU BRIDGE DECK PARAPET

(Showing removal)



SECTION THRU MEDIAN

(Looking North)

Bar	No.	Size	Length	Shape
a1(E)	96	#6	25'-9"	
c(E)	6	#5	7'-1"	7
c1(E)	6	#5	4'-9"	_ <i>_</i>
d(E)	12	#4	6'-8''	
d1(E)	12	#5	3'-11"	L L
x(E)	136	#5	2'-3"	
Concrete	Removal		Cu.Yd.	16.2
Concrete	Superst	ructure	Cu. Yd.	19.0
Reinforce Epoxy Co	ement Ba ated	rs,	Pound	4,210

<u>BILL OF MATERIAL</u>

Bars indicated thus 4 x 3-#6 etc. indicates 4 lines of bars with 3 lengths per line.



BAR x(E)





JSER NAME = jpang DESIGNED - BCG REVISED CHASTAIN & ASSOCIATES LLC **ILLINOIS ROUTE 31 OVER BNSF** STATE OF ILLINOIS DRAWN -RLK REVISED SOUTH ABUTMENT EXPANS **DEPARTMENT OF TRANSPORTATION** LOT SCALE = 8.0000 ' / in. CHECKED -JMB REVISED ULTING ENGINEERS 184-001397 PLOT DATE = 8/10/2018 DATE 08-10-2018 REVISED SCALE: SHEET 16 OF 36 SHEET

в	BRIDGE REHABILITATION			P. SECTION			COUNTY	JNTY TOTAL SHEETS	
21				12VB-BR(16)			KANE/KENDALL	65	37
וכ				SN 047-0006			CONTRACT NO. 62D43		
S	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



CHASTAIN	ASTAIN USER NAME = jpang DESIGNED - BCG REVISED -		ILLIN	NOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION	F.A.P. RTE	SECTION	COUNTY	TOTAL	SHEET NO.			
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINOIS			860	12VB-BR(16)	KANE/KENDALI	.L 65	38
CONSULTING ENGINEERS	PLOT SCALE = 8.0000 / in	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION				SN 047-0006	CONTRACT	F NO. 62	D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 17 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	-	

Bar	No.	Size	Length	Shape
a1(E)	72	#6	25'-9"	
с(Е)	6	#5	7'-1"	
c1(E)	6	#5	4'-9"	
d(E)	6	#4	6'-8"	
d1(E)	6	#5	3'-11"	L L
x(E)	68	#5	2'-3"	
Concrete	Removal		Cu. Yd.	17.9
Concrete	Supersti	ructure	Cu. Yd.	19.9
Reinforce	ement Ba	rs,	Pound	3.070
Ероху Сс	oated		Found	3,070



<u>n</u>	EJ-55-5	8-11-17					(Sheet 1 of	3)					
Ĩ	CHASTAIN	USER NAME = jpang	DESIGNED - BCG	REVISED -		II I IN	NOIS ROUTE 31 OVER BASE BE	RIDGE REHABILITATION	F.A.P. BTE	SECTION	COUNTY	TOTAL	SHEET NO.
IAME	& ASSOCIATES LLC		DRAWN - RLK	REVISED -	STATE OF ILLINOIS	PREFORMED JOINT STRIP SEAL - SIDEWALK			860	12VB-BR(16)	KANE/KENDALL	L 65	39
< E	CONSULTING ENGINEERS	PLOT SCALE = 8.0000 ' / in.	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION	PREFURIVIED JUINI STRIP SEAL - SIDEWALK				SN 047-0006	CONTRACT	F NO. 62	2D43
	184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2018	REVISED -		SCALE:	SHEET 18 OF 36 SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT		

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4¹/₂" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.

Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

<u>BILL OF MATERIAL</u>

Item	Unit	Total
Preformed Joint Strip Seal	Foot	405.0



Ē							(Sheet 2 0	
Ē	CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS	USER NAME = jpang	DESIGNED - BCG	REVISED -			OIS BOUTE 31 OVER BASE	
			DRAWN - RLK	REVISED -	STATE OF ILLINOIS			
2		PLOT SCALE = 8.0000 / in	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION	1	PREFORMED JOINT STRIP	
	184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2018	REVISED -		SCALE:	SHEET 19 OF 36 SHEETS	



51							(Jheel J Ui
I		USER NAME = jpang	DESIGNED - BCG	REVISED -		II LIN/	
A ME	PLASSOCIATES LLC		DRAWN - RLK	REVISED -	STATE OF ILLINOIS		
Z H	CONSULTING ENGINEERS	PLOT SCALE = 8.0000 ' / in.	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION		PREFURINED JUINT STRIP
Ĩ	184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2018	REVISED -		SCALE:	SHEET 20 OF 36 SHEETS



CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397 PLOT	USER NAME = jpang	DESIGNED - BCG DRAWN - RLK	REVISED REVISED	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLING	DIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION	F.A.P. RTE 860	SECTION 12VB-BR(16)	COUNTY TOTAL SHEET SHEETS NO. KANE/KENDALL 65 42
	PLOT SCALE = 8.0000 / in	CHECKED - JMB	REVISED	SED -					SN 047-0006	CONTRACT NO. 62D43
	PLOT DATE = 8/10/2018	DATE - 08-10-20	018 REVISED	SED -		SCALE:	SHEET 21 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT



(Modular joint not shown for clarity)

(Modular joint not shown for clarity)

CHASTAIN -	USER NAME = jpang	DESIGNED -	BCG	REVISED -		ILLINOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION		TATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET	SHEET	
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINUIS					860	12VB-BR(16)	KANE/KENDAL	_L 65	43
CONSULTING ENGINEERS	PLOT SCALE = 8.0000 / in	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION	FIER 4 EAFANSION JUINT DETAILS					SN 047-0006	CONTRAC	T NO. F	2D43
184-001397 PLOT	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE: SHEET 22 OF 36 SHEETS STA. TO STA.					ILLINOIS FED. AI	D PROJECT		



CHASTAIN & ASSOCIATES LLC JSER NAME = jpang DESIGNED - BCG REVISED ILLINOIS ROUTE 31 OVER BNSF STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DRAWN - RLK REVISED PIER 4 EXPANSION JC LOT SCALE = 8.0000 ' / in. CHECKED -JMB REVISED <u>TING ENG</u> 184-001397 PLOT DATE = 8/10/2018 DATE REVISED SCALE: SHEET 23 OF 36 SHEETS 08-10-2018

	BILL O	<u>F MA</u>	TERIAL	
Bar	No.	Size	Length	Shape
a1(E)	96	#6	25'-9"	
с(Е)	6	#5	7'-1"	7
c1(E)	6	#5	4'-9''	L
d(E)	12	#4	6'-8''	
d1(E)	12	#5	3'-11"	Ľ
x(E)	136	#5	2'-3''	
x2(E)	16	#5	1'-10''	
z(E)	12	#5	8'-4''	
Concrete	Removal		Cu. Yd.	18.1
Concrete	Supersti	Cu. Yd.	20.5	
Reinforce Epoxy Co	ement Ba ated	Pound	4,340	

Bars indicated thus 4 x 3-#6 etc. indicates 4 lines of bars with 3 lengths per line.



<u>BAR d(E)</u>



<u>BAR d1(E)</u>



<u>BAR c(E)</u>

<u>BAR x(E)</u>

<u>BAR c1(E)</u>



<u>BAR z(E)</u>

В	RIDGE REHABIL	TATION	F.A.P. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO
n	DINT DETAILS		860	12VB-B	12VB-BR(16)			65	44
			SN 047-0006				CONTRACT NO. 62D43		
5	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



	USER NAME = jpang	DESIGNED -	BCG	REVISED -		ILLINOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION			SECTION	COUNTY TO SH	JTAL SHEET IEETS NO.
& ASSOCIATES LLC	& ASSOCIATES LLC		RLK	REVISED -	STATE OF ILLINUIS	STATE OF ILLINOIS			12VB-BR(16)	KANE/KENDALL	65 45
CONSULTING ENGINEERS	PLOT SCALE = 8.0000 / in	CHECKED - JMB REVISED -		REVISED -	DEPARTMENT OF TRANSPORTATION			SN	047-0006	CONTRACT N	0. 62D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE: SHEET 24 OF 36 SHEETS STA. TO STA.			ILLINOIS FED. AID		



SECTION A-A

Notes: The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Parapet plates and anchorage studs included in the cost of "Modular Expansion Joint, 6".

Support boxes shall be rigidly attached to cross frames and girders by adjustable brackets, stools or shims as determined by the Manufacturer. Support boxes to be spaced so they do not interfere with existing top flange of beams. Cost of attachment included in "Modular Expansion Joint, 6".

The number, location and orientation of support boxes shall be determined by the manufacturer. All boxes shall be located to miss the top flanges of the beams.

Modular expansion joints shall be assembled in their final relative position with the ends in place for inspection and acceptance.

Prior to placement of the joint concrete, the Contractor shall coordinate with the Modular Joint Manufacturer to ensure that the joint will be properly supported and that the reinforcement bars will not interfere with the joint components. Any necessary adjustments to the reinforcement layout shall be submitted to the Engineer for approval.

Item	Unit	Total
Modular Expansion Joint, 6"	Foot	135.0



BRIDGE REHABILITATION				SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
FI		DETAILS	860	12VB-B	R(16)		KANE/KENDALL	65	46	
			SN 047-0006 CONTRACT						2D43	
5	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT			







DIAPHRAGM D1 DETAIL (9 Required)

DIAPHRAGM D1 DIMENSIONS

Location	*A
Beam 2 – N. Abutment	3"
Beam 3 – N. Abutment	33/4"
Beam 4 – N. Abutment	33/4"
Beam 5 – N. Abutment	31/2"
Beam 6 – N. Abutment	35/8"
Beam 5 – Pier 1 N.	$4^{1}/_{2}''$
Beam 6 – Pier 1 N.	4"
Beam 8 – Pier 4 S.	4"
Beam 9 – Pier 4 S.	4"
Beam 10 – Pier 4 S.	4 ¹ / ₈ "
Beam 11 – Pier 4 S.	4"
Beam 12 – Pier 4 S.	31/2"
Beam 7 – S. Abutment	31/2"
Beam 8 – S. Abutment	31/2"

- * Dimension to top flange provided for information only. Dimensions shall match existing and holes in beam web shall be used as a template for drilling holes in diaphragm clip angles.
- **CONTRACTOR shall field measure each diaphragm to be replaced prior to ordering new diaphragms. New diaphragm shall be shorter than existing depending on the number of beam web repair plates on each end.

DIAPHRAGM D2 DIMENSIONS

Location	*В
Beam 1 – Pier 4 N.	3"
Beam 2 – Pier 4 N.	4 ⁵ ⁄8"
Beam 3 – Pier 4 N.	6"
Beam 8 – Pier 4 N.	8¼″
Beam 9 – Pier 4 N.	35/8"
Beam 10 – Pier 4 N.	3½"
Beam 5 – Pier 1 S.	4"
Beam 6 – Pier 1 S.	4½"
Beam 7 – Pier 1 S.	10"
Beam 8 – Pier 1 S.	8 ⁵ ⁄8"
Beam 9 – Pier 1 S.	7¾"
Beam 10 - Pier 1 S.	5 ⁵ /8"
Beam 11 - Pier 1 S.	4 ⁵ /8"
Beam 12 - Pier 1 S.	2 ³ /4"

CHASTAIN	USER NAME = jpang	DESIGNED -	BCG	REVISED -		ILLI	INOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINUIS		STRUCTURAL STEEL REPAIR DETAILS	860	12VB-BR(16)	KANE/KENDALL	4 65	47
CONSULTING ENGINEERS	PLOT SCALE = 32.0000 / in.	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURAL STEEL NEFAIN DETAILS		SN 047-0006	CONTRACT	Г NO. 6	2D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 26 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		
							·					

Item	Unit	Total
Furnishing & Erecting Structural Steel	Pound	13,630
Structural Steel Removal	Pound	11,610



FIXED BEARING



TOP BRG. PLATE DETAIL



PLAN - TOP BRG. PLATE



PINTLE

JACK AND REMOVE EXISTING BEARING PROCEDURE

- 1. The Contractor shall submit for approval by the Engineer, plans for jacking existing beams and installing new bearings prior to commencing any related work. Minimum jack capacity is 32 tons.
- 2. Prior to ordering any material, the Contractor shall verify fill plate thickness required at each bearing.
- З. Jacking and removing existing bearings shall be done after the existing joint is removed and prior to placing the new joint concrete.
- 4. Jacking lifts shall be limited in accordance with the special provision "Jack and Remove Existing Bearings."
- 5. The new bearings, plates, and side retainers shall be in place and the jack shall be lowered before the new concrete deck at the joints is poured.

CUIM DUATE TUICKNECC

				<u>3010</u>	IPLAIL		NNE 33						Item	Unit	Total
Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8	Beam 9	Beam 10	Beam 11	Beam 12	Anchor Bolts, 5/8"	Each	48
North Abutment	7%"	13%"	15//"	1½"	1"	5/"	5%"	3/11	2 ³ ⁄8"	1/2"	2"	3%"	Jack and Remove Existing Bearings	Each	23
South Abutment	0"	2¾"	3/" 78	2"	1⁄4"	1/2"	7/8"	1½"	1%"	1¾"	1¼"	1¼"	Furnishing and Erecting Structural Steel	Pound	3,870
	1	1	I						1	1	1		Temporary Shoring and Cribbing	Each	1

BEARING DETAILS - NORTH AND SOUTH ABUTMENTS 860 12/9-BR(16)	KANE/KENDALL 65 48
CONSULTING ENGINEERES PLOT SCALE = 2.0000 / in. CHECKED JMB REVISED DEPARTMENT OF TRANSPORTATION SN 047-0006	CONTRACT NO. 62D43
184-001397 PLOT DATE = \$1/0/2018 DATE - 08-10-2018 REVISED - 08-10-2018 REVISED - 01 ILLINOIS T	D. AID PROJECT



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554. (Grade 36)

The structural steel plates of the bearing assembly including steel extension shall conform to the requirements of AASHTO M183 Grade 36.

Steel bearing and shims shall be paid for as Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel

Temporary shoring and cribbing shall be used on Beam 3 at the South Abutment due to abutment concrete deterioration.

Bearing removal shall be included in Temporary Shoring and Cribbing when needed.



CHASTAIN	USER NAME = jpang	DESIGNED -	BCG	REVISED -			ILLINOIS ROUTE	E 31 0	OVER E	BNSF E	RIDGE RE	EHABILITATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET!	SHEET NO.
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINOIS		BEARING DET	AILS -	PIFR	1 NOR		PIER 4 SOLITH	860	12VB-BR(16)	KANE/KENDAL	.L 65	49
CONSULTING ENGINEERS	PLOT SCALE = 2.0000 / in	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION		DEARING DEA			1 1101		1211 4 50 5 111	_	SN 047-0006	CONTRAC	T NO. 6	2D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 2	28 OF	- 36	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

			Item	Unit	Total
11	Beam 12		Elastomeric Bearing	Each	24
	5/"		Assembly, Type 1		
	78		Anchor Bolts, ⅔"	Each	48
	1¼″		Jack and Remove Existing Bearings	Each	24
		1	Furnishing and Erecting Structural Steel	Pound	5,020



CHASTAIN	USER NAME = jpang	DESIGNED -	BCG	REVISED -		ILLIN	IOIS ROUTE 31 OVER BNSF B	RIDGE REHABI	LITATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINOIS		BEARING DETAILS - P	FR 1 SOUTH		860	12VB-BR(16)	KANE/KENDALL	65	50
CONSULTING ENGINEERS	PLOT SCALE = 2.0000 / in	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION		DEARING DETAILS				SN 047-0006	CONTRACT	í NO. 6	2D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 29 OF 36 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings

	BEAM REACTIO	NS .
R _{DL}	(k)	35.7
RLL	(k)	40.0
Impact	(k)	10.0
RTotal	(k)	85.7

Notes:

-@ 7/8" Ø Holes

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554. (Grade 36)

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The structural steel plates of the bearing assembly including steel extension shall conform to the requirements of AASHTO M183 Grade 36.

Steel extension and shims shall be paid for as Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

The existing anchor bolts at the inside face of fascia beams shall be reused. Should the anchor bolt not be reusable, anchor bolt extensions shall be incorporated according to the detail on this sheet and the work shall be included in the cost of "Furnishing & Erecting Structural Steel".

	Item	Unit	Total
	Elastomeric Bearing Assembly, Type I	Each	12
1 Boam 12	Anchor Bolts, 1"	Each	22
0"	Jack and Remove Existing Bearings	Each	12
	Furnishing and Erecting Structural Steel	Pound	2,800



SCALE:

BEAM REACTIONS							
RDL	(k)	35.7					
RLL	(k)	40.0					
Impact	(k)	10.0					
RTotal	(k)	85.7					

	Item	Unit	Total
Beam 12	Elastomeric Bearing Assembly, Type II	Each	12
1/2"	Anchor Bolts, ¾"	Each	24
	Jack and Remove Existing Bearings	Each	12
	Furnishing and Erecting Structural Steel	Pound	3,560

BRIDGE REHABILITATION				SEC	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
VIER 4 NORTH		860	12VB-BR(16)			KANE/KENDALL	65	51	
			SN 047-0006			CONTRACT NO. 62D43			
5	STA. TO STA.				ILLINOIS	FED. A	ID PROJECT		



SOUTH ABUTMENT - NORTH FACE



Notes:

Repair details shown on this sheet were taken from the District's inspection sheets. Actual locations, size, and depth shall be verified in the field.

Temporary Shoring & Cribbing may be needed in areas where conventional jacking procedures are not possible due to abutment concrete deterioration. Locations are identified on the applicable bearing sheets, but are to be verified and adjusted accordingly by the Contractor and the Structural Engineer performing the Jacking plans.

NORTH ABUTMENT - SOUTH FACE

	USER NAME = jpang	DESIGNED -	BCG	REVISED -		ILLINOIS ROUTE 31 OVER BNSE BRIDGE REHABILITATION		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINOIS			860	12VB-BR(16)	KANE/KENDALL	65	52
CONSULTING ENGINEERS	PLOT SCALE = 16.0000 / in.	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION			_	SN 047-0006	CONTRACT	NO. 62	:D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 31 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

<u>LEGEND</u>



Structural Repair of Concrete (Depth ≤ 5")



Structural Repair of Concrete (Depth > 5")

Item	Unit	Total
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	250
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	114



PIER 1 ELEVATION SOUTH FACE



Notes:

Repair details shown on this sheet were taken from the District's inspection sheets. Actual locations, size, and depth shall be verified in the field.

Temporary Shoring & Cribbing may be needed in areas where conventional jacking procedures are not possible due to pier concrete deterioration. Locations are identified on the applicable bearing sheets, but are to be verified and adjusted accordingly by the Contractor and the Structural Engineer performing the Jacking plans. PIER 1 ELEVATION NORTH FACE

CHASTAIN	USER NAME = jpang	DESIGNED - BCG	REVISED -		ILLINOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION		BILITATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET	SHEET
& ASSOCIATES LLC		DRAWN - RLK	REVISED -	STATE OF ILLINOIS				860	12VB-BR(16)	KANE/KENDALL	65	53
CONSULTING ENGINEERS	PLOT SCALE = 16.0000 / in.	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION		PIER I REPAIRS			SN 047-0006	CONTRACT	NO. F	52D43
184-001397	PLOT DATE = 8/10/2018	DATE _ 08-10-2018	REVISED -		SCALE:	SHEET 32 OF 36 SHEETS STA.	TO STA.		ILLINOIS FE	D. AID PROJECT	-	

<u>LEGEND</u>



Structural Repair of Concrete (Depth ≤ 5")



Structural Repair of Concrete (Depth > 5")



Item	Unit	Total
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	75
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	36



PIER 2 ELEVATION SOUTH FACE



PIER 2 ELEVATION NORTH FACE

CHASTA	USER NAME = jpang	DESIGNED - BCG	REVISED -		ILLINOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET!	SHEET 5 NO.
& ASSOCIATES		DRAWN - RLK	REVISED -					12VB-BR(16)	KANE/KENDALL	65	54
CONSULTING ENGL	PLOT SCALE = 16.0000 / in	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION	PIER 2 REPAIRS			SN 047-0006	CONTRACT	NO. 6	52D43
184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2018	REVISED -	SCALE: SHEET 33 OF 36 SHEETS STA. TO STA.		SCALE: SHEET 33 OF 36 SHEETS STA. TO STA.		ILLINOIS FI	ED. AID PROJECT	-	

Notes:

Repair details shown on this sheet were taken from the District's inspection sheets. Actual locations, size, and depth shall be verified in the field.

.....

<u>LEGEND</u>



Structural Repair of Concrete (Depth ≤ 5")



Structural Repair of Concrete (Depth > 5")

<u>BILL OF MATERIAL</u>

Item	Unit	Total
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	102
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	40



PIER 3 ELEVATION SOUTH FACE



Notes: Repair details shown on this sheet were taken from the District's inspection sheets. Actual locations, size, and depth shall be verified in the field.

PIER 3 ELEVATION NORTH FACE

CHASTAIN	USER NAME = jpang	DESIGNED -	BCG	REVISED -		ILLINOIS ROUTE 31 OVER BNSF BRIDGE REHABILITATION		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -					12VB-BR(16)	KANE/KENDALL	65	55
CONSULTING ENGINEERS	PLOT SCALE = 16.0000 / in	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION	PIER 3 REPAIRS			SN 047-0006	CONTRACT	NO. 62	D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 34 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

<u>LEGEND</u>



Structural Repair of Concrete (Depth \leq 5")

<u>BILL OF MATERIAL</u>

Item	Unit	Total
Structural Repair of Concrete (Depth ≤ 5 ")	Sq. Ft.	8



PIER 4 ELEVATION SOUTH FACE



PIER 4 ELEVATION NORTH FACE

Notes:

Repair details shown on this sheet were taken from the District's inspection sheets. Actual locations, size, and depth shall be verified in the field.

Temporary Shoring & Cribbing may be needed in areas where conventional jacking procedures are not possible due to pier concrete deterioration. Locations are identified on the applicable bearing sheets, but are to be verified and adjusted accordingly by the Contractor and the Structural Engineer performing the Jacking plans.

CHASTAIN	USER NAME = jpang	DESIGNED -	BCG	REVISED -		I	ILLINOIS ROUTE 3	1 OVER BNS	BRIDGE	REHABILITATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
& ASSOCIATES LLC		DRAWN -	RLK	REVISED -	STATE OF ILLINOIS						860	12VB-BR(16)	KANE/KENDALL	65	56
CONSULTING ENGINEERS	PLOT SCALE = 16.0000 ' / in.	CHECKED -	JMB	REVISED -	DEPARTMENT OF TRANSPORTATION			PIER 4 REF	AIRS			SN 047-0006	CONTRACT	NO. 6	2D43
184-001397	PLOT DATE = 8/10/2018	DATE -	08-10-2018	REVISED -		SCALE:	SHEET 35	OF 36 SHEE	TS STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

<u>LEGEND</u>



Structural Repair of Concrete (Depth ≤ 5")



Structural Repair of Concrete (Depth > 5")

Hairline Crack (for Information Only)

Item	Unit	Total
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	100
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	58



STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

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

Location	Bar	No. assemblies	Minimum
	SIZE	required	lap length
N. Abut Hatch Block	#6	4	4'-0''
North Abut Deck	#6	8	4'-10''
Pier 1	#6	16	4'-10''
Pier 4	#6	16	4'-10''
S. Abut Hatch Block	#6	4	4'-0''
S. Abut Deck	#6	8	4'-10''
S. Approach Slab	#5	46	3'-4''
S. Approach Slab	#8	60	5'-4''
S. Approach Slab Ftg	#5	40	3'-0''
N. Approach Slab	#5	46	3'-4''
N. Approach Slab	#8	60	5'-4''
N. Approach Slab Ftg	#5	40	3'-0''



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.





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2-17-2017

CHASTAIN	USER NAME = jpang	DESIGNED - BCG	REVISED -			NOIS ROUTE 31 OVER BNSE BRIDGE REHABILITATION	F.A.P. BTE	SECTION	COUNTY	TOTAL SHEET
& ASSOCIATES LLC		DRAWN - RLK	REVISED -	STATE OF ILLINOIS	BAR SP	LICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	860	12VB-BR(16)	KANE/KENDALL	65 57
CONSULTING ENGINEERS	PLOT SCALE = 8.0000 / in	CHECKED - JMB	REVISED -	DEPARTMENT OF TRANSPORTATION	DAILOI			SN 047-0006	CONTRACT	NO. 62D43
184-001397	PLOT DATE = 8/10/2018	DATE - 08-10-2018	REVISED -		SCALE:	SHEET 36 OF 36 SHEETS STA. TO STA.		ILLINOIS FED. AI	ID PROJECT	



STANDARD MECHANICAL SPLICER

Location	Bar	No. assemblies
Location	size	required

<u>NOTES</u>

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.



AND	F.A.P RTE.	SEC	TION		COUNTY	SHEETS	SHEET NO.
	860	12VB	-BR(16)		KENDALL	65	58
		BD400-05	BD32		CONTRACT	NO. 6	2D43
STA. TO STA.	FED.	ROAD DIST. NO. 1	[ILLINOIS FED.	AID	PROJECT		

						ROAD CONSTRUCTION AHEAD * TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. (SEE NOTE 2) 200'± (60 m±) DRIVEWAY WORK AREA'.J WORK AREA'.J	** TYI TYI TYI TYI TYI TYI TYI TYI TYI TYI	PE I OR TYPE II BARRICADES WITH ONE ASHING AMBER LIGHT ON EACH, OR PE III BARRICADES WITH TWO FLASHING BER LIGHTS ON EACH. (SEE NOTE 1)
					 NOTES: SIDE ROAD WITH A SPEED SHOWN ON THE DRAWING AN a) ONE "ROAD CONSTRUC MOUNTED ON IT APPE b) THE CLOSED PORTION BLOCKING WITH TYPE THE CROSS SECTION SIDE ROAD WITH A SPEED AS SHOWN ON THE DRAWING a) ONE "ROAD CONSTRUC FLASHER MOUNTED ON OF THE MAIN ROUTE. b) THE CLOSED PORTION BLOCKING WITH TYPE OF THE CLOSED PORTION BLOCKING WITH TYPE OF THE CLOSED PORTION BLOCKING DURING DAY OPER IN HEIGHT. 4. WHEN THE SIDE ROAD LIES SIGNING AND THE WORK ZO BE USED IN LIEU OF THE IN 	LIMIT OF 40 MPH (60 km/h) OR LESS AS ND AS DIRECTED BY THE ENGINEER: CTION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER ROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. I OF THE MAIN ROUTE SHALL BE PROTECTED BY I, TYPE II OR TYPE III BARRICADES, 1/3 OF OF THE CLOSED PORTION. LIMIT GREATER THAN 40 MPH (60 km/h) G AND AS DIRECTED BY THE ENGINEER: CTION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A N IT APPROXIMATELY 500' (150 m) IN ADVANCE I OF THE MAIN ROUTE SHALL BE PROTECTED BY III BARRICADES, 1/2 OF THE CROSS SECTION 'ION. CD FOR BARRICADES OR DRUMS AT HALF THE ATIONS. CONES SHALL BE A MINIMUM OF 28 (710) BETWEEN THE BEGINNING OF THE MAINLINE NE, A SINGLE HEADED ARROW (M6-1) SHALL DOUBLE HEADED ARROW (M6-4).	 WHEN WORK IS FOLLOW THE AP ARROW (M6-1 OF NO LONGER CON ADVANCE WARNI UNLESS OTHERW ENGINEER. THE TRAFFIC C INTERSECTIONS, COST OF SPECI 	BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, PLICABLE STANDARD(S). THE DIRECTIONAL R M6-4) SHALL BE COVERED OR REMOVED WHEN VISISTENT WITH THE TRAFFIC CONTROL SET-UP. ING SIGNS ARE TO BE OMITTED ON DRIVEWAYS VISE SPECIFIED IN THE PLANS OR BY THE ONTROL AND PROTECTION FOR SIDE ROADS, , AND DRIVEWAYS SHALL BE INCLUDED IN THE FIED TRAFFIC CONTROL STANDARDS OR ITEMS.
.e name =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96			TRAFFIC CONTROL AND DROTEOTION -	0.0	All dimensions are in inches (millimeters) unless otherwise shown.
:\\IL084EBIDINTEG.111no15.gov;PWIDOT\Do	PLOT DATE = 9/15/2016	StORAWWY\CADDeta\CADsheets\tcl0.dgn CHECKED - DATE - 06-89	REVISED -T. RAMMACHER 01-06-00 REVISED - A. SCHUETZE 07-01-13 REVISED - A. SCHUETZE 09-15-16	STATE OF I DEPARTMENT OF T	LLINOIS RANSPORTATION	SCALE: NONE SHEET 1 OF 1 SHEETS STA.	NAYS TO STA.	NLL SHELIS NUL 860 12VB-BR(16) KENDALL 65 59 TC-10 CONTRACT NO. 62D43 ILLINOIS FED. AID PROJECT ILLINOIS FED. AID PROJECT





 DRAWN
 REVISED
 -T. RAMMACHER
 03-12-99

 CHECKED
 REVISED
 -T. RAMMACHER
 03-12-99

 DATE
 REVISED
 -T. RAMMACHER
 09-09-09

LOT SCALE = 50.000 ′⁄ IN.

PLOT DATE = 3/2/2011

RAISED REFLECTIVE PAVEMENT MARKE SCALE: NONE SHEET NO. 1 OF 1 SHEETS

A	TIONS	1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DECICTANT)	860	12VB-BR(16)	KENDALL	65	60
	13 (314044-FLOVA	HLJIJTANT/		TC-11	CONTRACT	NO. 6	2D43
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		





LANE REDUCTION TRANSITION

lane reduction arrows required at speeds of 45 MPH or greater or when specified in plans.

LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOL ID SOL ID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
ULL & "4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
N ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
	SOL ID SOL ID SOL ID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHEWNISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
TH NALS USED FOR MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
2 (300) 5°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (0VER 45MPH (70 km/h))
VERSE 6' (1.8 m) 20)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"-3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
	SOLID	WHITE	16.3 SF
	SOLID	WHITE	30.4 SF

All dimensions are in inches (millimeters) unless otherwise shown.

DI	NE		F.A.P. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
MARKINGS			860	12VB-	BR(16)		KENDALL	65	61
				TC-13			CONTRACT	NO. 62	2D43
S	STA.	TO STA.			ILLINOIS	FED. AI	ID PROJECT		
s	STA.	TO STA.		TC-13	ILLINOIS	FED. AI	CONTRACT	NO. 62	2D

TURN BAY ENTRANCE AT START **OF LANE CLOSURE TAPER**





NOTES:

- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-IIOOR 24 x 24 (600 x 600) AND M6-2R 21 × 15 (530 × 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



FILE NAME =	USER NAME = footemj	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09		TBAI	FFIC CONT	ROL AND	PROTECTION AT	TURN BAYS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET	SHEET
pw:\\ILØ84EBIDINTEG.illinois.gov:PWIDOT\Do	cuments\IDOT_Offices\District_1\Projects\Dist	5 HBE XX SECTADDete \CAQsHeQUSEH1418907-95	REVISED - A. SCHUETZE 07-01-13	STATE OF ILLINOIS		/TO			n)	860	12VB-BR(16)	KENDALL	65	62
	PLOT SCALE = 50.0000 ' / 10.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION		(10	NEIVIAIN		6)		TC-14	CONTRACT	NO. F	52D43
Default	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET 1	OF 1	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



REVISED - A. SCHUETZE 09-15-16 SCALE: NONE SHEET NO. 1 OF 1 SHEETS

	LETTERS AND SYMBOLS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G LETTERS AND SYMBOLS		860	12VB-BR(16)	KENDALL	65	63	
_				TC-16	CONTRACT	NO. 62	D43
	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	e de se	ΑΒΤΕΒΙΔΙ ΒΟΔΟ			F.A.P. RTE.	SECTION	COUNTY	TOTAL S	IEET
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				860	12VB-BR(16)	KENDALL	65	64
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN				TC-22	CONTRACT	NO. 620	43
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO	D STA.	FED. ROAD DIST. NO. 1 [ILLINOIS FED. A		ID PROJECT		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" × 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS	DRIVEWAY ENTRANCE SIGNING			F.A.P.	SECTION	COUNTY	OTAL S	SHEET
c:\pw_work\pwidot\gaglianobt\d0108315\tc	26.dgn	DRAWN -	REVISED -					860	12VB-BR(16)		65	65
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				1	TC-26	CONTRACT N	10. 62	D43
	PLOT DATE = 12/13/2012	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DIST.	NO. 1 ILLINOIS FED. AI	PROJECT		