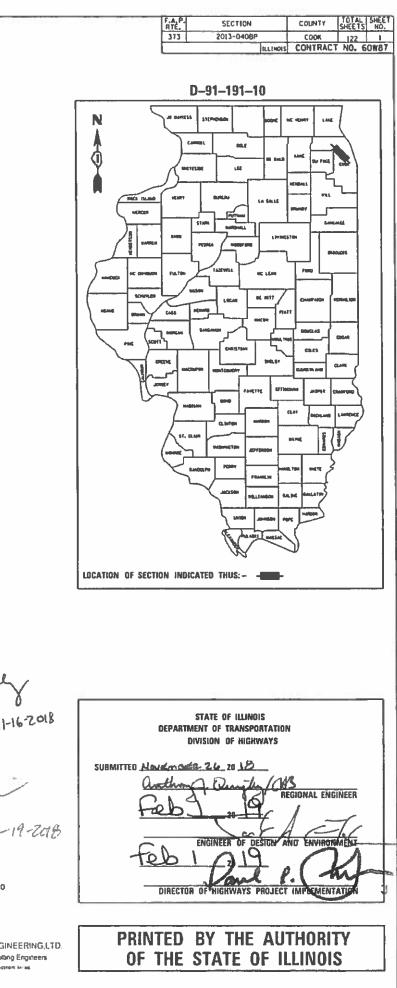


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LIN ENGINEERING,LTD. Consulang Engineers Heathern by an

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS & STANDARDS
3	GENERAL NOTES & COMMITMENTS
4-5	SUMMARY OF QUANTITIES
6	LOCATION MAP
7-102	STRUCTURE PLANS
103-104	OVERALL MAINTENANCE OF TRAFFIC PLANS
105-110	DISTRICT DETAILS
111-122	HIGHWAY STANDARDS

STATE STANDARDS

<u>STANDARD NO.</u>	DESCRIPTION
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS 45 MPH TO 55 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES

DISTRICT 1 DETAILS

DETAIL NO.	DESCRIPTION
TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
TC-09	TRAFFIC CONTROL DETAILS FORFREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
TC-18	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPESSWAYS (TC-18)
TC-22	ARTERIAL ROAD INFORMATION SIGN (TC-22)

		DESIGNED -	RC	REVISED -			INDEX OF SH	FFTS	F.A.P.	SECTION	COUNTY	TOTAL SHEET
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Westmont, Illinois	PLOT SCALE = 2.0000 ′ / m.	CHECKED -	ST	REVISED -	DEPARTMENT OF TRANSPORTATION			03	_		CONTRACT	T NO. 60W87
westhold, minors	PLOT DATE = 12/13/2018	DATE -	12/2018	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.				DIST. NO. 1 ILLINOIS FED.	, AID PROJECT	

GENERAL NOTES

- 1. 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 HOUR NOTIFICATION REQUIRED)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF MCCOOK, LYONS AND SUMMIT.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS 4. OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AT NO ADDITIONAL COST.
- ANY DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT 5. MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. 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.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTING AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL 8. SUPERVISOR AT (847) 705-4470 AND EXPRESSWAYS TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING 9. PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROPERTY.
- 10. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS WERE DEVELOPED 11. FROM PREVIOUS PLANEMETRICS AND AERIAL PHOTOGRAPHY FURNISHED BY THE DEPARTMENT AND IS NOT THE RESULT OF A GROUND SURVEY. ALIGNMENT TIES HAVE BEEN ESTABLISHED FOR THE IL 171 BASELINE. THEREFORE, ALL ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS, ALIGNMENTS AND BASELINES.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF RAILROAD FLAGGING SERVICES FOR THE MWRDGC RR PER ARTICLE 109.05 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF RAILROAD FLAGGING SERVICES FOR THE IC RR PER THE CONTRACT SPECIAL PROVISIONS.
- 13. THE COAST GUARD MUST BE CONTACTED AT LEAST 30 DAYS PRIOR TO ANY WORK IN OR OVER THE SANITARY AND SHIP CANAL TO COORDINATE VESSEL PASSAGES AND ISSUE NOTICE TO MARINERS. COORDINATION MAY INCLUDE, BUT NOT BE LIMITED TO, SUBMITTING PROJECT INFORMATION AND SCOPE, PROPOSED CONSTRUCTION ACTIVITIES, DATES AND DURATION OF WORK, WORKING HOURS AND EQUIPMENT TO BE USED. THIS INFORMATION WILL BE PREPARED BY THE CONTRACTOR, REVIEWED AND APPROVED BY THE ENGINEER, AND BE SUBMITTED BY THE ENGINEER TO THE COAST GUARD AT THE ADDRESS LISTED BELOW FOR APPROVAL. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICE OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

MR. SCOT STRIFFLER COMMANDER, NINTH COAST GUARD DISTRICT 1240 EAST 9TH STREET CLEVELAND, OH 44199-2060 (216) 902-6087, SCOT.M.STRIFFLER@USCG.MIL 14. THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRDGC) HAS MANY FACILITIES LOCATED WITHIN THE PROJECT LIMITS. THESE FACILITIES SHALL BE LOCATED PRIOR TO BEGINNING OF WORK. MINIMUM HORIZONTAL/VERTICAL CLEARANCE OF TWO FEET SHALL BE MAINTAINED BETWEEN MWRDGC SEWERS AND ANY PROPOSED WORK. MWRDGC PERSONNEL SHALL HAVE 24 HOUR-A-DAY UNRESTRICTED ACCESS TO ALL MWRDGC FACILITIES. NO ACCESS HATCHES AND MANHOLE COVERS ON MWRDGC STRUCTURES AND MANHOLES WITHIN THE PROJECT LIMITS SHALL BE BURIED OR COVERED. NO DEBRIS SHALL ENTER MWRDGC STRUCTURES, SEWERS OR FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL MWRDGC FACILITIES FROM ALL CONSTRUCTION OPERATIONS AND EQUIPMENT. FOR ANY QUESTIONS REGARDING ACCESS TO MWRDGC FACILITIES OR FIELD LOCATION, CONTACT MR. RAFIQ BASARIA, SENIOR CIVIL ENGINEER, AT (708) 588-0480. THE CONTRACTOR SHALL COORDINATE WITH THE MWRDGC MAINTENANCE AND OPERATION DEPARTMENT PRIOR TO BEGINNING ANY WORK NEAR THE MWRDGC RAILROAD LINE NORTH OF THE SANITARY AND SHIP CANAL, CONTACT MR DANIEL COLLINS, SUPERVISING CIVIL ENGINEER. AT (708)588-4300.

1. THE NAVIGATIONAL LIGHTS LOCATED ON THE UNDERSIDE OF THE IL 171 BRIDGES OVER THE SANITARY AND SHIP CANAL (S.N. 016-0487) AND S.N. 016-0486) MUST REMAIN IN SERVICE DURING CONSTRUCTION.

		DESIGNED -	RC	REVISED -			GENERAL NOT	TES	F.A.P.	SECTION	COUNTY	TOTAL SHEET
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COMMITMENTS

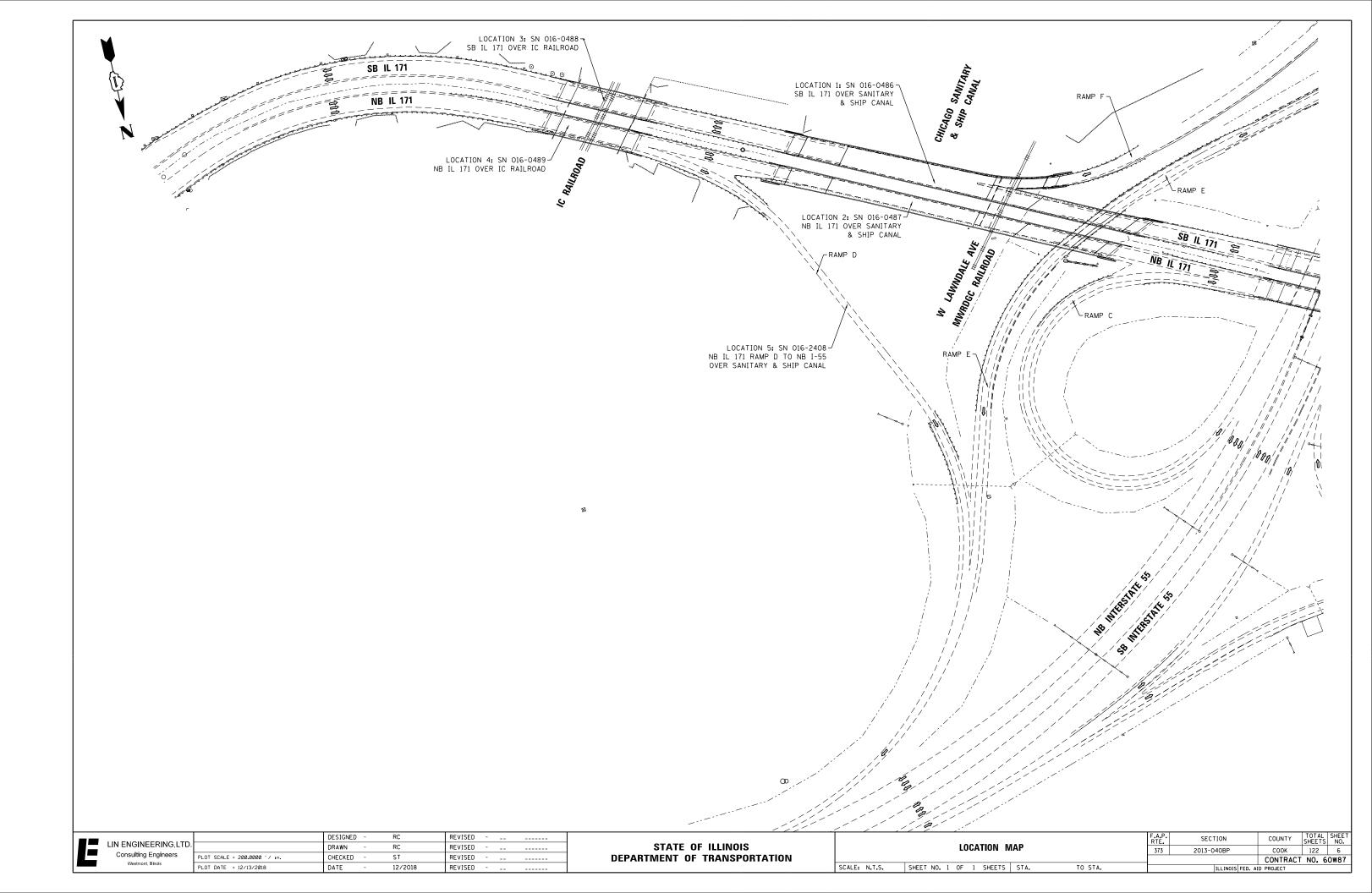
2. THE COAST GUARD WILL NEED TO APPROVE ANY WORK BELOW THE LOW STEEL OF THE IL 171 BRIDGES OVER THE SHIP AND SANITARY CANAL.

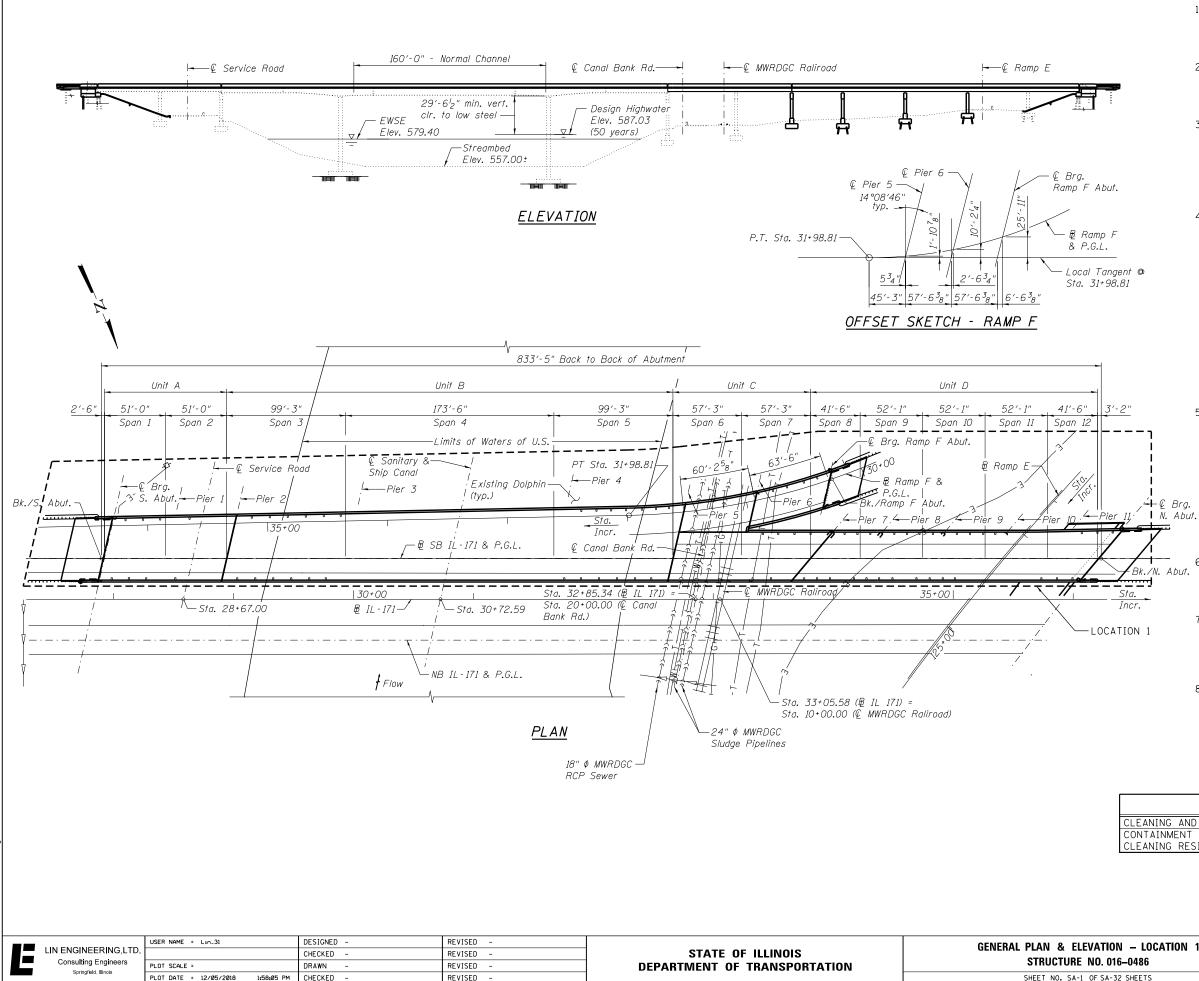
						CONS	TRUCTION	CODE		
			URBAN	80% FED 20% ST						
			TOTAL	ROADWAY						
CODE NO.	ITEM	UN I T	TOTAL QUANTITY	0047						
				URBAN						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12						
67100100	MOBILIZATION	L SUM	1	1						
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	302	302						
10101023				502						
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1						
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1						
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1						
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1						
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	1						
70007107				1						
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1							
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1	1						
Z0007105	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	1	1						
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1						
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1						
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1	1						
SPECIALTY										
IGINEERING,LTD. sulting Engineers	DESIGNED RC REVISED - DRAWN - RC REVISED - PLOT SCALE = 100.0000 ' / In. CHECKED - ST REVISED -	DEDAD	STATE OF		TATION			SUM	MARY OF QU	ANTITIES
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	Westmont, Illinois	PLOT DATE = 12/13/2018	DATE -	12/2018	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA.

									CONSTRUCTION	CODE	
							80% FED				
						URBAN	20% ST				
							ROADWAY				
CODE NO.			ITEM		UNIT	TOTAL QUANTITY	0047				
							URBAN				
Z0010504	CLEANING AND PAINTING	STEEL BRID	GE NO. 4		L SUM	1	1				
70010505	CLEANING AND PAINTING	STEEL BRID	GE NO 5		L SUM	1	1				
20010303		JILL DIVID				1					
Z0030850	TEMPORARY INFORMATION	SIGNING			SQ FT	150	150				
Z0048665	RAILROAD PROTECTIVE L	IABILITY IN	ISURANCE		 L SUM	1	1				
					I		1	II		1	<u> </u>
SPECIALTY	L I L IVI				1				- 1		
INEERING, LTD.		DESIGNED - DRAWN -	RC RC	REVISED - REVISED -		STATE O				SUMN	NARY OF QUANTITIES
lastmont Illinois	PLOT SCALE = 100.0000 ' / 1n. PLOT DATE = 12/13/2018	CHECKED - DATE -	ST 12/2018	REVISED - REVISED -	j depar	TMENT OF	IKANSPOR	IATION	SCALE: N.T.S.	SHEET NO. 2 0	F 2 SHEETS STA.

		DESIGNED -	RC	REVISED -			SUMMARY OF QUA
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Westmont, Illinois	PLOT DATE = 12/13/2018	DATE -	12/2018	REVISED -		SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS





PLOT DATE = 12/05/2018

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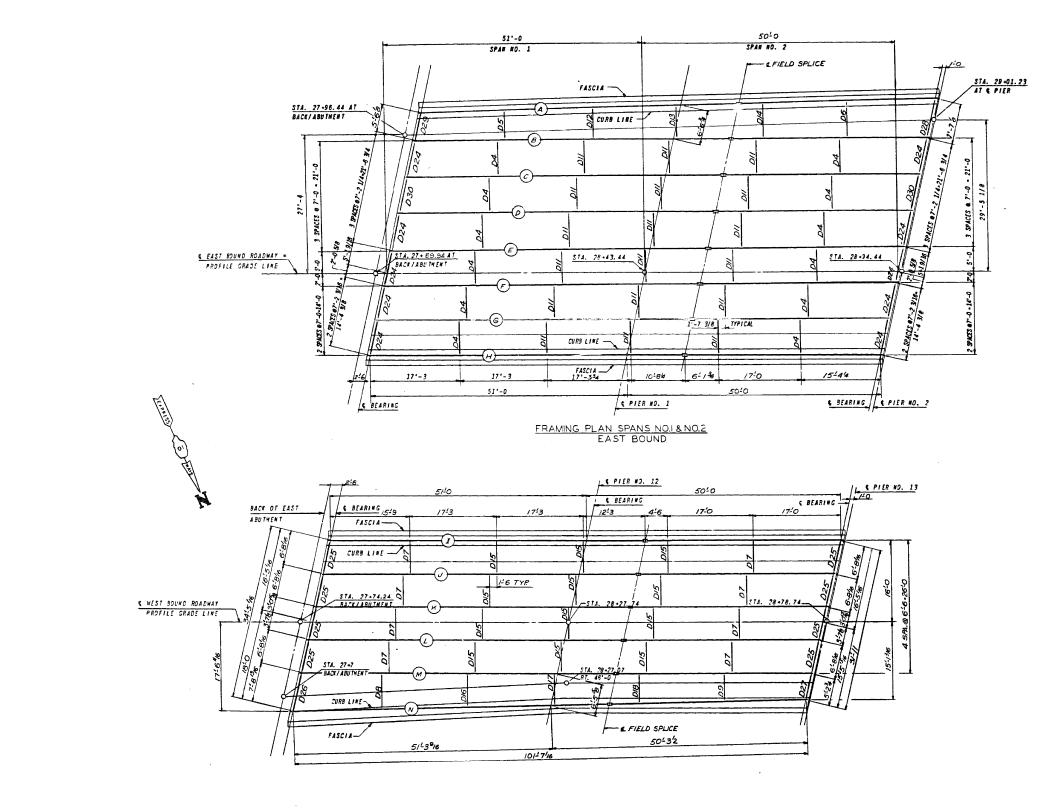
GENERAL NOTES

- 1. THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
- 2. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS. STRUCTURAL SHEETS TAKEN FROM EXISTING PLANS CONTAIN INFORMATION NOT PERTAINING TO THIS CONTRACT AND ARE FOR INFORMATION ONLY.
- 4. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SA-21 THRU SA-32 HAS BEEN PRIMED WITH AN INORGANIC ZINC RICH PRIMER UNDER A PREVIOUS CONTRACT. THESE STEEL SURFACES SHALL BE PRESSURE WASHED CLEAN AND POWER TOOL CLEANED (SSPC SP-3 MODIFIED) AS NECESSARY PRIOR TO THE APPLICATION OF THE INTERMEDIATE AND TOP COATS. THE INORGANIC ZINC RICH PRIMER / ACRYLIC / ACRYLIC PAINT SYSTEM SHALL BE USED FOR FIELD PAINTING OF THESE LOCATIONS. 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 AND ANY EXTERIOR FRAMING SHALL BE REDDISH BROWN. MUNSELL NO. 2.5YR 3/4.
- 5. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SA-2 THRU SA-20 SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THESE LOCATIONS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF THE EPOXY MASTIC / EPOXY MASTIC / ACRYLIC PAINT SYSTEM. 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 AND ANY EXTERIOR FRAMING SHALL BE REDDISH BROWN, MUNSELL NO. 2.5YR 3/4.
- 6. A MINIMUM OF 3 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".
- 7. THE ELASTOMERIC PADS OF THE EXISTING BEARINGS SHALL BE MASKED OFF FOR PROTECTION DURING PAINTING AND REMOVED WHEN PAINTING IS FINISHED. COST INCLUDED WITH "CLEANING AND PAINTING STEEL BRIDGE NO. 1".
- 8. IF APPLICABLE, THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS DEMONSTRATING THE STRUCTURAL INTEGRITY OF THE BRIDGE IS MAINTAINED UNDER THE ADDITIONAL IMPOSED LOADS OF THE CONTAINMENT SYSTEM. SEE SPECIAL PROVISIONS.

ITEM	UNIT	TOTAL
CLEANING AND PAINTING STEEL BRIDGE NO. 1	L. SUM	1
CONTAINMENT AND DISPOSAL OF LEAD PAINT	L. SUM	1
CLEANING RESIDUES NO. 1		

TOTAL BILL OF MATERIAL

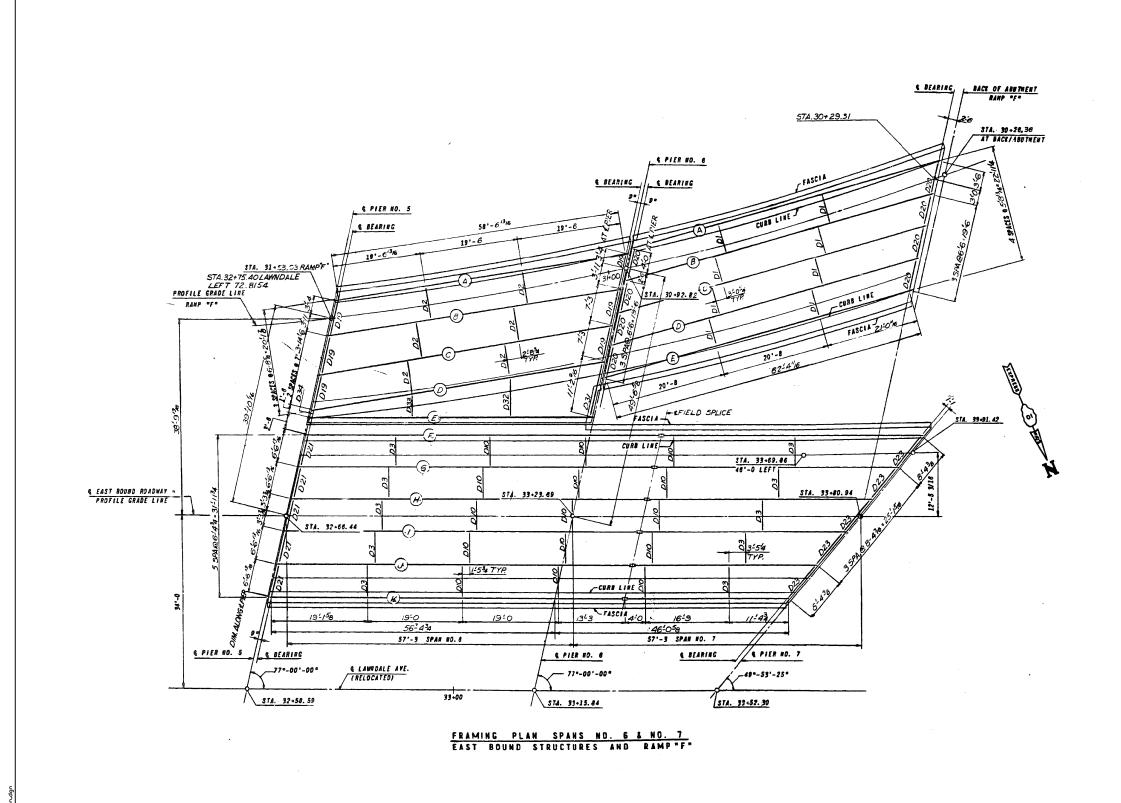
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TION – LOCATION 1	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016-0486	373	2013-040BP	СООК	122	7
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A-32 SHEETS		ILLINOIS FED.	AID PROJECT		



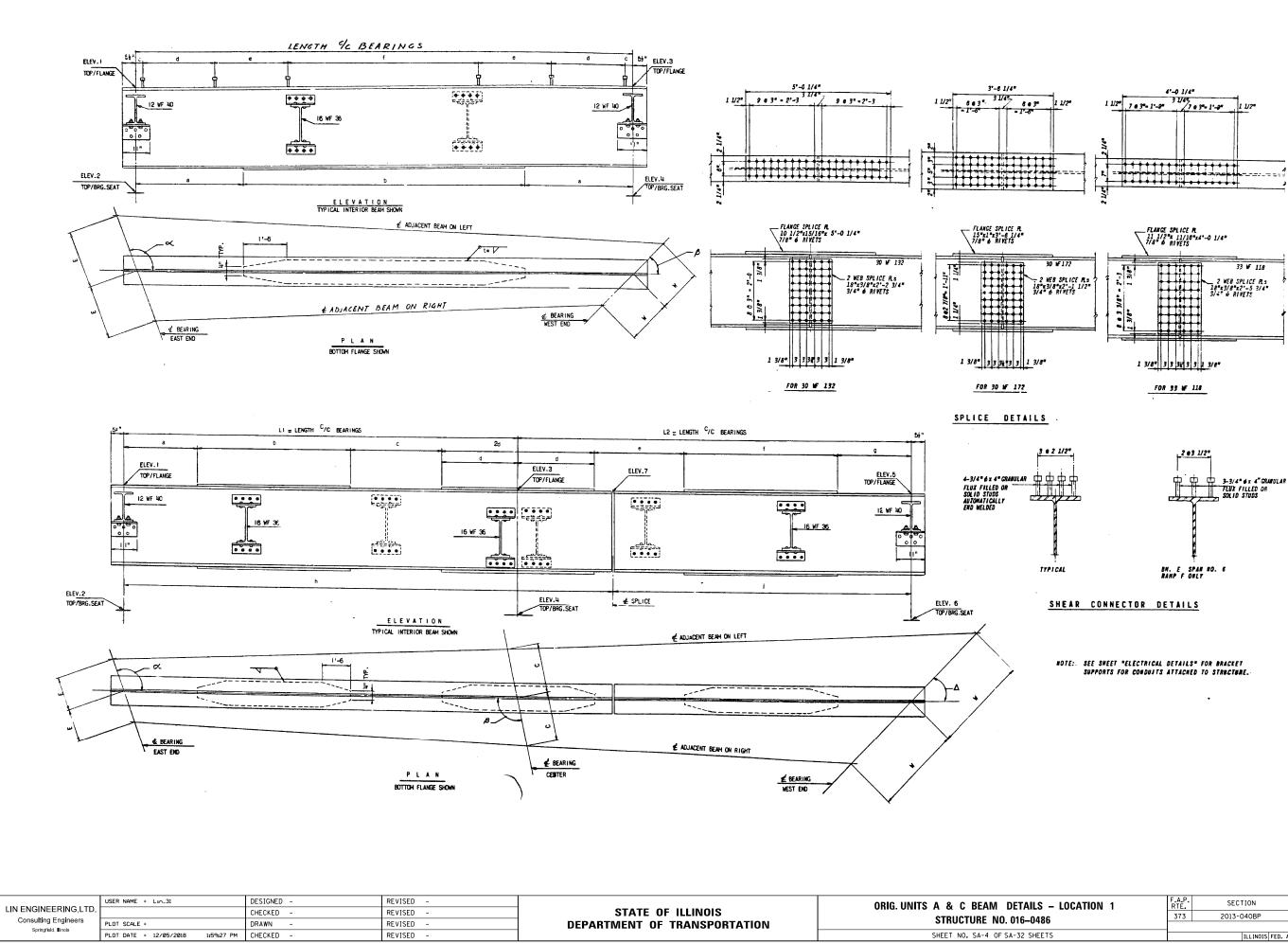
FRAMING PLAN SPANS NO. 1 & NO. 2 WEST BOUND

2

		USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT A FRAMING PLAN – LOCATION 1	F.A.P. RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
			CHECKED -	REVISED -	STATE OF ILLINOIS		373	2013-040BP	СООК	122 8
		PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0486			-	CT NO. 60W87
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		CHECKED -	REVISED -	STATE OF ILLINOIS		373	2013-040BP	соок	122 9
Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0486				CT NO. 60W87
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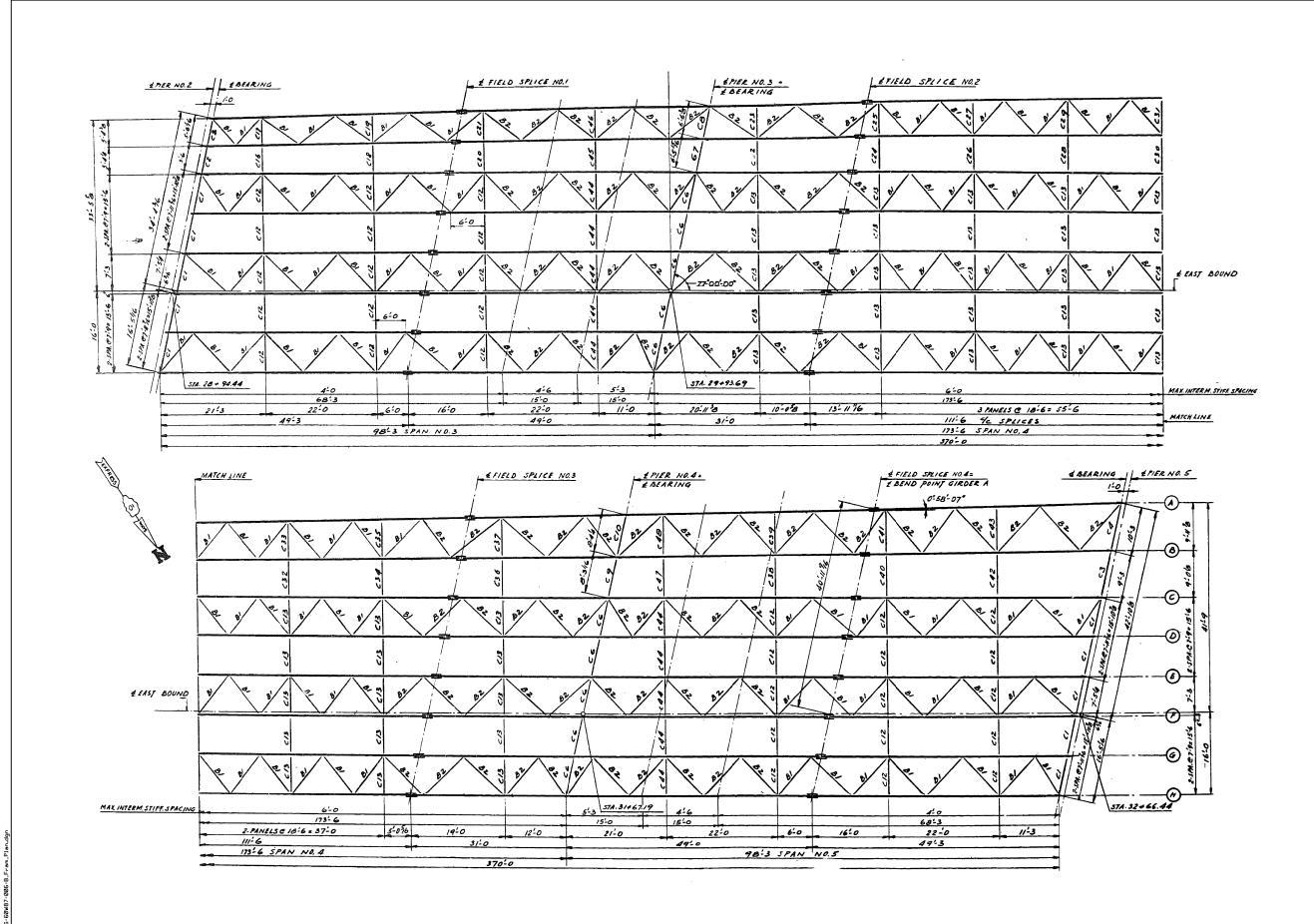
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010-0400			CONTRACT	NO. 6	OW87
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	A		625.912	622.039	75•-51*-13*		625.703	621.840	755113*		625.498	621.625	75-51-15	33 WF 118	51"-2 15/1	50'-2 7/8	- i	51'-2 15/15	-	-	-	-	-	50*-2 7/8	62'-9 9/16			E 2	1	F 4	-	E 2		1	
~	8	5"-8 1/8	626.024	622.151	77°-00'-00	6 - 6 3/4	625.837	621.932	77-00-00*	7*-7 1/8	625.653	621.779	770000-	do	51'-0"	50'-0"	9" x 3/8"	46'-9"			4'-3 =			45'-9	62"-6"		625.794	E 2	++						
e.	C	1-2 11	626.170		đo	7'-2 1/4	625.983		do	7"-2 1/4		621.925	do	do	do	do	do	do	<u> </u>	<u> </u>			-						┢╌┈┼	F 1	<u> </u>	E 2			
	1	do	626.316		do	do		622.224	1	do		622.071				+	++		-	<u> </u>	do	-	-	do	đo	do	625.940	E 2		F 1	-	E 2	-	c	
601 1	1-	7'-2 1/4	·			7'-2 1/4	4			7'-2 1/4	}	+	do	do	do	do	do	do	-		do	<u> </u>	-	do	đo	do	626.086	E 2	-	F 1	-	E 2	-	D	
ND.	1-	7"-2 3/1	6	622.519	đo	7'-2 3/1	16 020.205	622.300	do	7'-2 3/16	626.021	622.147	do	do	do	do	do	do .		-	đo	-		do	do	do	626.162	E 2	-	F 1	-	E 2	-	E	
A K	1	do	626.428	622.519	đo	do	626.241	622.300	do	<u> </u>	626.057	622.147	do	đo	do	do	do	do	-	-	da	_	-	do	đo	đo	626.198	E 2	7/16*	F 1	11/16*	E 2	7/16*	F	
NV ds	6	7"-2 3/1	826.364	622.456	đo	7'-2 3/1	626.177	622.237	đo	20	625.993	622.084	do	do	do	do	9" x 3/8"	46'-9"	-	-	4'-3"	-		45'-9	do	do	626.134	E 2	3/8"	FI	7/16*	E 2		6	······································
	N	/ -2 3/1	626.280	622. 393	77-00-00			622.174	770000	7 -2 3/16	625.908	622.021	77 -00 -00*	33 ₩118	51"-0"	50'-0"	- 1	51'-0"	_		_			50"-0"	62"-6"	38'-6"	626.050	E 2	1/8"	F.4	3/16*	E 2			
			-			1				ļ		+					<u> </u>										0201000			· •	3/ 40		3/10=		
		1				1			+	L		+			·	+	┨							<u> </u>					++						
~	+-	L			70 001 00	1	636 10					+				+	┨────┤																		
g 🕏	+-	6"-8 1/16	626.311		7-00-00	6°-8 1/.	16	822.2.60	77-00-00	6'-8 1/16	625.939	622.065	77°-00'-00"	33 WF 118	51 -0	50"-0"	-	51"-0"	-	-	-	-	-	50"-0"	62"-6"	38*-6*	626.081	E 2	-	F 4	-	E 2	-	1	
5 -	Ľ	- do	628.401	622.528	do	do	626.214	622.350	do		626.030	622.156	do	do	do	do	-	do	-	-		-	-	60	do	do	626.171	E 2	-	F 4	-	E 2	-	7	
8008 1 & 1	1	do	626. 472	622.598	do		628.284	622.421	do	<u> </u>	626.100	622.226	do	do	do	do	- 1	do	-	-	-	-	-	do	do	do	625.242	E 2	· ·	F 4	_	E 2	-	1	
Q.	L		626. 472	622. 598	do	40	626.285	622.421	do	<u>ao</u>	626.101	622.226	do	đo	đo	do		do	-		-	-	-	do	do	đo	626.242	E 2		F 4		E 2		$\frac{1}{1}$	
west an ND.	H	6'-8 1/16	626.413	622. 528	77-00-00	6"-8 1/.	18 626.225	622.338	77-00-00	6'-8 1/16	626.041	622.155	77-00-00-	do	51"-0"	50"-0"		51'-0"				_					· · · · · ·								····
5		7'-8 13/1	6 626. 339	622.465	75.°-37°-33	6'-5 5/	8	622.285		5'-2 3/4	625.965		75*-37*-33*				<u> </u>		-	<u> </u> −	-	-	-	50'-0"	62"-6"	38'-6"	626.183		1/8"	F 4	3/16*	E 2	1/8"	*	
	+-	<u> </u>			<u>)/ -)</u>	-			13-37-33	-		022.002	/53/35-	33 W 118	51 - 3 9/1	50-3 1/2		51'-3 9/16	-		-	-	-	50'-3 1/2	62"-10 3/8"	38'-8 11/15	625.108	E 2	-	E 4	-	E 2	-		
	+	1	J	├		-	<u> </u>		+	-	7		└─── ┤			L																			
~	+		7						1	L	1					1																1	•		
1- 92	Ľ	6'-6 13/	624.505	620.490	7°-00'-00'	6'-6 13	624.296	620.600	77-0000	1 1 1 1 1	624.058	620.430	49*-53*-25*	30 ₩F 172	56'-4 3/4	65'-7 7/16	-	56"-4 3/4"	-	-	-	-	•	65' -7 7/14	5 70°-5 5/8	511-70/10	624.246		5/8"	F 2	-	E 4	1/8*	7	
9 ²	Le.		624.595	620.461	do		624. 387	820. 741	do	8'-4 3/8	824.180		1	30 ₩ 172	do	61'-8 7/16		56"-4 3/4"		h				61'-8 7/16	1				1/4*	F 2	<u> </u>	E 4		. +-	
6 & I	1	6'-6 13/1	624. 864	620.961	do	6'-6 13	824.457	620.807	do	8'-4 7/18	624.244	do		30 WF 132	do	57'-9 1/2		15'-10 3/4	13"-6".	211 01					do	47*-8 9/16		E.4	++		<u> </u>			6	······
	1		824. 870	820.881	do	6'-6 7/	//	820.807		do	624.284	do	do	do					43 -0-	21'-0"		21'-8 1/2"	13"-6"	16'-6"	<u>do</u>	43"-9 5/8		<u>[3</u>	1/2*	F 3		E 3			
EA:	5	6'-6 13/.	624.611	620. 898	do	00 13	3/15			- 8°-4 7/16			<u> </u>		do	53'-10 1/2		52"-4 3/4"	-		4"-0"			49'-10 1/2	do	39"-10 5/8	624, 410	E 3	1/2*	F 3	-	E 3	3/4*	<u>'</u>	
east Span Nd.	N	6°-6 13/	16	620. 835		6'-6 1	3/16 624.404			8"-4 3/8	624.220	820.540		do	do	49'-11 9/16	<u> </u>	56'-4 3/4"	-	-	-	-	-	49'-11 9/16	6 do	35°-11 1/15	624, 352	E 3	5/8"	F 5	1/8"	E 3	1/4*	1	
	+	1	026.033	020.433	//~-00*-00	4	624.32	5 620.675	770000	1	624.156	620.480	49°-53'-25"	30 IF 132	56'-4 3/4	48'-0 5/8	-	58°-4 3/4		-	-	-	-	45'-0 5/8	70'-4 5/8	32'-0 3/4	624.273	E 3	7/16=	F 5	-	E 3	3/16*	1	
	+		}	├ ────- ↓			-		L	L	-														1										
~			1			1				}	4					1				T				1	1				1			1			
2	1	6'-6 13/	624.583	620.848	77°-00'-00'	6'-6 1	3/16 624.35	\$ \$20.709	770000		624.134	620.503	52 - 30 - 29	30 ¥ 172	56'-4 3/4	64"-5 9/10	- 1	56'-4 3/4"	•	<u> </u>		<u> </u>		61-5 0/14	5 70°-4 5/8	50'-5 11/14	824 204	E 4		F 2	- 1	E 4		<u>i</u>	
2 ²	M			621.009	đo		- 624.44	5 620.799	do	8'-0 3/4	_	620.579		30 ¥ 172			+	56'-4 3/4"		<u> </u>		<u> </u>							+		<u> </u>				
80fi 8	a	<u>6'-6 13/.</u>	624. 722	821.009	do	6'-6 13	3/16 624 51	5 820.884		8'-0 13/1	6				đo	61'-0 3/8				-	-	-	-	61'-0 3/8'		47*-0 1/2		E 4	3/8"	F 2	-	E 4	5/16*		
	0	6'-6 7/8		621.009	do	- 6°-6 7/	/8	620.884		do		620.642		30 ₩ 132	do	57'-7 3/16		15'-10 3/4	13"-6"	21'-0"	6*-0*	21'-10 3/16	13'-6	16'-3	do	43'-75/16	624.463	E 3	11/16"	F 3	-	E 3	-		
west An No.		8'-8 13/.	16	621.009		6'-6 13	3/16			8'-0 13/1		620.642	do	do	<i>d</i> 0	54'-3		52'-4 3/4'		-	4'-0	-	-	50*-2	do	40'-2 1/8	624.468	E 3	11/16"	F 3	1/16*	E 3	3/16" -	0	
- %		6°-8 13/.	161		do	6'-6 1	3/16	620.801		8-0 214	-	620.570	do	do	đo	50'-8 13/16		56'-4 3/4"	-		+	- 1	-	50'-8 13/10	5 do	36'8 15/16	624, 409	E 3	- 1	F 5	1/8"	[]	1/2"	,	
	10		624.590	620. 830	77 °-00 °-00	<u>''''''</u>	624.38	8 620.733	77-0000	8'-0 3/4	624.209	620.500	52*-30*-29*	30 ¥ 132	55'-4 34	47'-3 11/1	s -	58°-4 3/4"	-	-	-				70'-4 5/8			E3		FS	-	E 3		0	
	1	<u></u>	1	Ι Τ						7		1				+	+			+			<u>├</u>	f	10 -4 3/8	10 - 11 10	024.93	. ,	+	r 3	<u>├</u>	+	#/ 40 "		
Contrast of Contra																																			

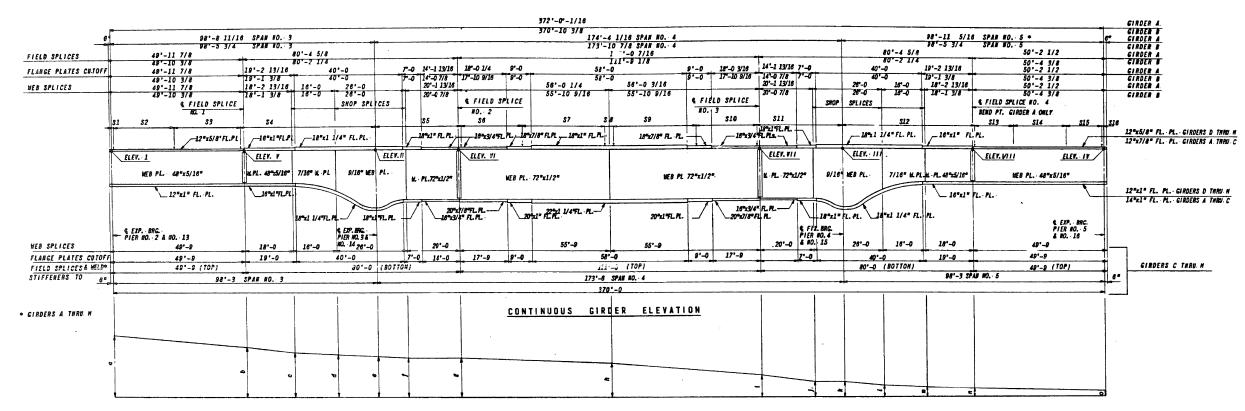
STRUCTURAL STEEL SPANS NO. 1, NO. 2, NO. 6 & NO. 7 EAST BOUND Spans No. 1, NO. 2, NO. 6 & NO. 7 WEST BOUND, SPANS NO. 6 & NO. 7 RAMP F

	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNITS A & C BEAM DATA – LOCATION 1	F.A.P. RTF.	SECTION	COUNTY TO	JTAL SHEET
LIN ENGINEERING, LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0486	373	2013-040BP	СООК 12	122 11
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO	0. 60W87
	PLOT DATE = 12/05/2018 2:00:04 PM	CHECKED -	REVISED -		SHEET NO. SA-5 OF SA-32 SHEETS		ILLINOIS FED.	. AID PROJECT	

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	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT B FRAMING PLAN – LOCATION 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET
Consulting Engineers		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0486	373	2013-040BP	СООК	122 12
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	T NO. 60W87
	PLOT DATE = 12/05/2018 2:00:37 PM	CHECKED -	REVISED -		SHEET NO. SA-6 OF SA-32 SHEETS		ILLINOIS FED. A	ID PROJECT	



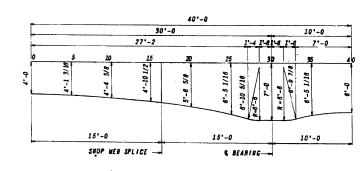
BLOCKING DIAGRAM

					CONTINU	OUS GI	RDER B	LOCKING	5 DI AGR	AM S	SPAI	N NO.	3 TH	RU NO.	5 EAS	T BOUN	<u> 8 WI</u>	ST BOU	IND					
GIRDER		0 F	WEE	EL	E V A. T	10	* A.T								8 L	0 C K I	IG A	t						
SIRVER	1	н	Ш	18	٧	٧I	VII	VIII	e	ð		C	đ	•	1	1	h	1	J.	k	1		R	
A.	5. 385	4.083	3. 949	3.118	5, 191	4.967	4. 332	3. 550	2'-3 3/16	2'-0 7	/8 1'	-117/16	1-10 5/8	1'-10 3/8	1'-10 3/16	1'-10 3/1	1'-9 7/16	1'-2 9/16	0'-11 3/16	0'-10	0'-8 3/8	0'-6 13/16	0'-5 3/16	0
8	5, 497	5, 116	4. 225	3. 658	5. 304	5.085	4. 523	3.013	1-10 1/16	1'-7 3	/4 1'	-8 5/8	1-5 13/16	1"-5 1/2	1'-5 1/4	1'-5 1/8	1-3 11/16	0-10 3/8	0"-7 7/8	0'-6 13/16	0'-5 3/8	0'-4 1/4	0"-3 //18	٥
C	5. 609	5,247	4, 493	4.131	5, 428	5. 220	4.735	4.230	1'-5 3/4	1'-3 9	76 1'	-2 3/16	1'-1 9/16	1'-1 3/8	1'-1 1/4	1'-1 1/16	1'-0	0'-7 1/4	0*-5 5/16	0'-4 3/8	0'-3 1/8	0'-2 5/16	0"-1 3/16	0
D	5, 771	5, 409	4.171	4. 409	5, 597	5. 367	4.966	4. 607	1'-4 5/16	1'-2 1	/4 1'	-1 3/16	1-0 11/16	1'-0	0-11 1/2	0'-11 1/2	0'-10 9/10	0-6 11/16	0'-4 15/16	0-4 5/18	0'-3 7/16	0'-2 15/16	0'-2 3/8	6
E	5.885	5. 623	4, 885	4. 523	5,711	5. 481	5,080	4.721	do	do		đo	do	do	do	đo	do	do	do	đo	do	đo	do	đ
F	5.959	5. 597	4. 959	4. 597	5.785	5. 555	5,154	4.795	do	do	-+-	do	do	do	do	đo	đo	do	do	đo	đo	đo	do	đç
6	5.888	5. 526	4. 888	4. 526	5.714	5. 484	5.083	4.724	do	do		do	đo	do	do	do	do	do	do	đo	do	đO	<i>d</i> 0	đ
M	5, 797	5, 435	4. 797	4.435	5. 623	5. 393	4. 892	4. 633	do	do	-	do	do	do	do	do	do	do	do	đo	đo	do	do	đć
1	5.827	5, 466	4. 827	4. 486	5. 654	5, 424	5.023	4. 664	do	do	1	do	do	do	do	do	do	do	do	do	đo	do	đo	đo
J	5.934	5. 573	4.934	4.753	5. 941	5, 711	5. 310	4.951	do	do	+	đo	do	do	đo	do	do	#0	đo	do	do	đo	do	đ
K	6.021	5, 659	5.021	4.659	5. 847	5.617	5.218	4.857	do	do	-	do	do	do	do	do	do	do	do	đo	do	do	do	đ
1	5. 948	5, 588	4.948	4.586	5.774	5. 544	5,143	4.784	đo	do	+	do	do	do	do	do	do	do	đo	do	do	do	đo	đ
H	5.855	5, 493	4.855	4.493	5. 681	5. 451	5.050	4. 691	1'-4. 5/18	1'-2 1	/4 1	-1 3/10	1-0 11/1	1'-0	0'-11 1/2	0-11 1/2	0-10 9/1	or-6 11/16	0'-4 15/16	0-4 5/18	0-3 7/10	P-2 15/16	0'-2 3/8	

• ADD 620 TO ALL ELEVATIONS

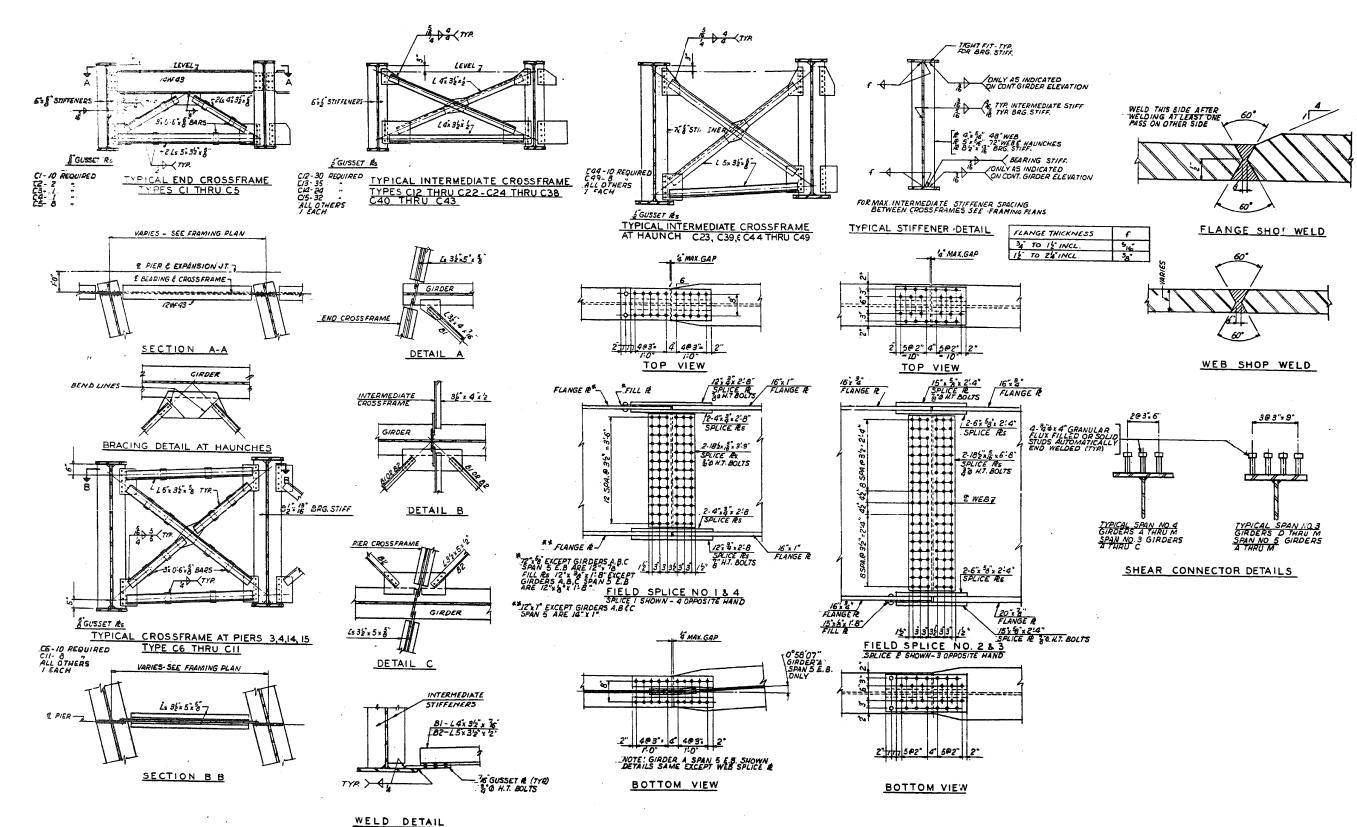
						SHEAR	CONNI	ECTOR	SPACIN	IGS						
GIRDER	S1	52	53	54	\$5	58	\$ 7	58	59	\$10	S 11	S12	\$13	\$14	S15	S16
A.	- 0'-3	28 e 0'-9 21'-0		215 11/19 -		28 e 0°11 25°8	-	34 e 1'-8 51'-0	:	34 00°-11 31°-2	- 33°-3 1/16			12 e 1'-0 12'-0	29 0 0°-8 19°-4	0-1 58
8	- do	đo	đo	- 50°-11 3/4	- 33'-0 1/2	đo	đo	đo	đo	¢	- 33-0 3/8	इ.न. ३७	¢	đo	28 e 0"-8 18"-8	- 0°-5 3/8
c	- do	28 e 0'-9 21'-0	21 • 1'-3 25'-3	500	- 32°-10	28 e 7'-11 25'-8	-	-1 6 -0	-	34 0 0°-11 31°-2	32"-10	50-0	13 e 1'-3 16'-3	12 e 1'-0 12'-0	28 e 0'-8 18'-8	0°-7
D thru N	- 0°-3	33 e 0'-9 24'-9	18 e 1'-3 22'-8	- 57-9	- 33°-0	48 e 9" = 36"-0		3 e 1'-10 - 5'-6	10 e 1'-6 = 15 <u>'</u> 0	48 e 9" =36"-0	337-0	- 50'-9	18 o 1'-3 22'-6	33 e 0'-9 '24'-9	-	- 0'-3

CHECKED - REVISED - STATE OF ILLINOIS Cost diges Subject line in the state of the		USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT B GIRDER ELEVATION – LOCATION 1	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
Brindel Illinois	LIN ENGINEERING, LTD.		CHECKED -				373	2013-040BP	СООК	122	13
	Springfield, Illinois	PLOT SCALE = PLOT DATE = 12/05/2018 2:01:13 PM	DRAWN – CHECKED –	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. SA-7 OF SA-32 SHEETS				NO. 6	JW87

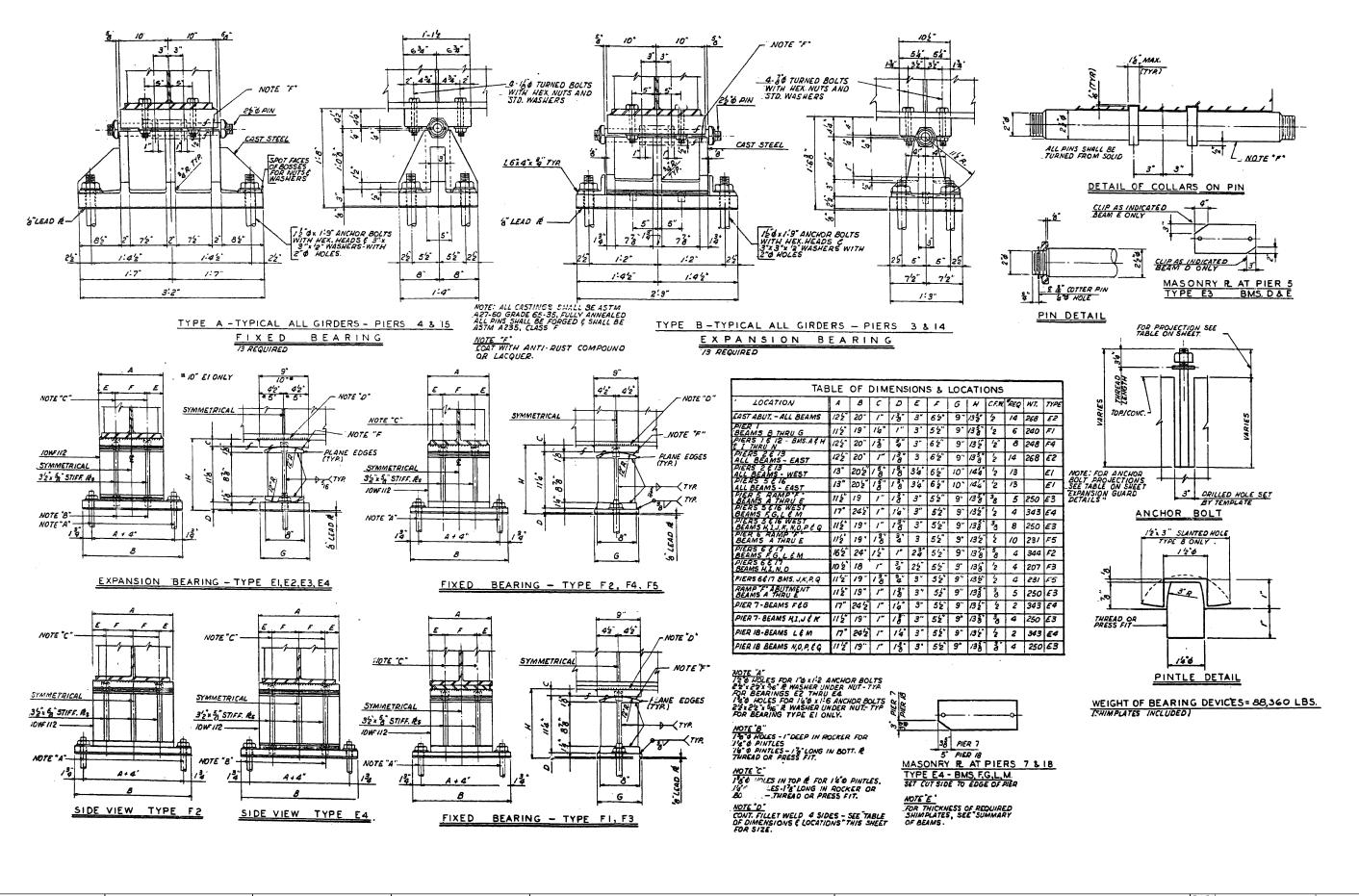


HAUNCH DETAIL

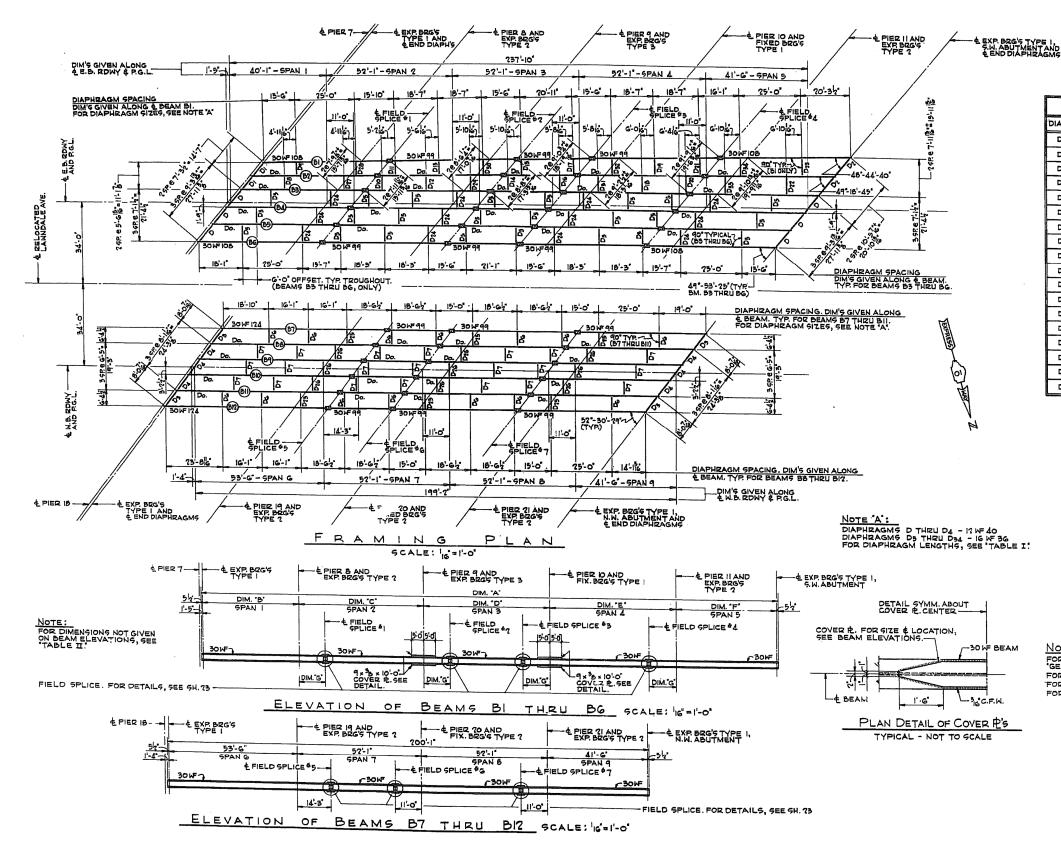
STRUCTURAL STEEL SPAN NO. 3 THRU NO. 5 L	EAST BOUND A	nd west bound:	
WEIGHT OF STUDS WEIGHT OF BEARING DEVICES	7,499 62,114	L85.	
WEIGHT OF EXPANSION QUARDS FRANING STEEL	21,734 1,380,470	LBS.	
FURNISHING AND ERECTING STRUCTURAL STEEL	1, 471. 817	LBS.	



	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT B STEEL DETAILS – LOCATION 1	F.A.P. SECTION	COUNTY TOTAL SHEET
Consulting Engineers	J.	CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0486	373 2013-040BP	СООК 122 14
Springfield, Illinois	PLOT SCALE = PLOT DATE = 12/05/2018 2:01:50 PM	DRAWN – CHECKED –	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. SA-8 OF SA-32 SHEETS	ILLINOIS FED. AID P	CONTRACT NO. 60W87



	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT B BEARING DETAILS – LOCATION 1	F.A.P.	SECTION	COUNTY	TOTAL SHEE	T
LIN ENGINEERING,LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0486	373	2013-040BP	СООК	122 15	-
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 60W8	7
	PLOT DATE = 12/05/2018 2:02:29 PM	CHECKED -	REVISED -		SHEET NO. SA-9 OF SA-32 SHEETS		ILLINOIS FED. AI	D PROJECT		



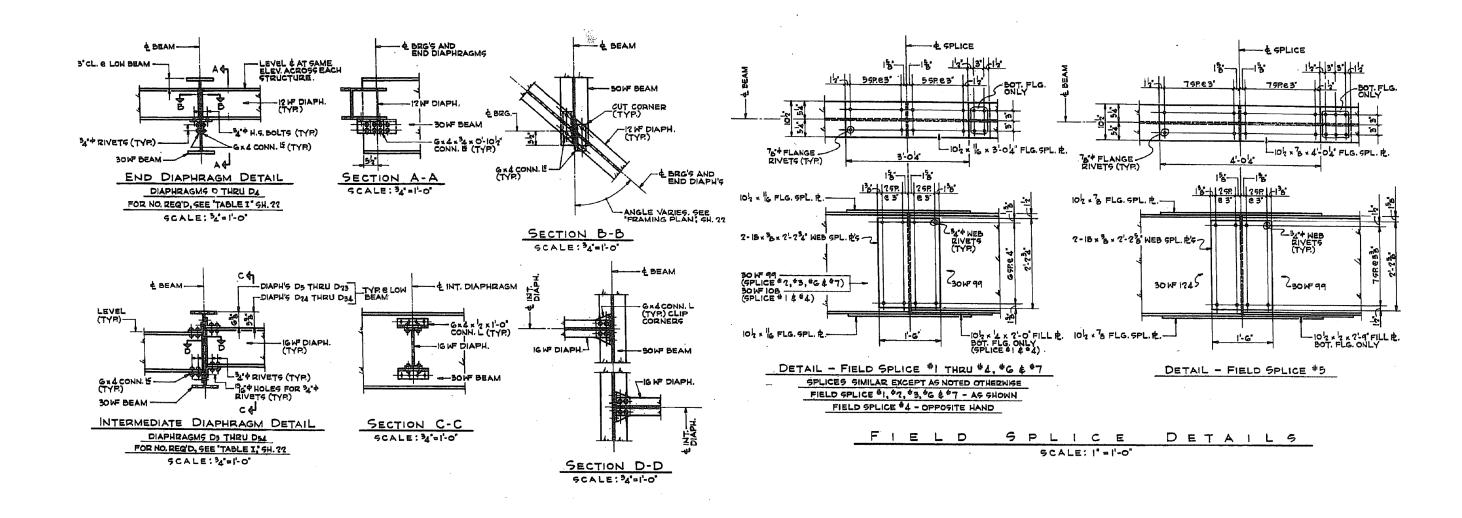
	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT D FRAMING PLAN – LOCATION 1	F.A.P.	SECTION	COUNTY	TOTAL SH	ET 0
LIN ENGINEERING, LTD. Consulting Engineers		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0486	373	2013-040BP	СООК	122	6
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION		_		CONTRACT	NO. 60W	37
	PLOT DATE = 12/05/2018 2:03:05 PM	CHECKED -	REVISED -		SHEET NO. SA-10 OF SA-32 SHEETS		ILLINOIS FED.	AID PROJECT		

			BLE	I	- <u>18 a</u>	
DIAPH.	LENGTH	NO.REO/D		DIAPH.	LENGTH	NO.REQD
D	9-313	G		Dig	7-23	1
D1 .	7'-3 ¹ 2"	· 2		Dia	7'-13"	1
D2	10-576	2		D20	7'-4'6	1
D3	8-0%	4		D21	7'-313	1
D4	8-116	G		D22	7'-92	1
Dş	7-12	24		D23	7'-84	1
DG	6-42	14		D24	7'-12"	12
7	6'-5'	21		D25	6-42	6
Da	5'-8 16	1		D76	6-5	9
Dq	5-78	1		D27	5-116	1
Dio	6'-17	1		D28	5-1015	1
DII	6-015	ł		D29	6-57	1
Drz	6-316	I		D30	6'-54	1
DIB	6'-3"	1		D31	7'-0%	1
DI4	6-74	1		D32	6-117"	1
Dis	6-76	l		D33	7'-6'z	1
Dig	· 6'-10 %	1		D34	7'-53	1
Di7	6'-9%	I			1	<u>1 1</u>

* * DIMENSION GIVEN IS & TO & OF BEAMS.

TABLE I								
DIM.	ві	B2	BB THRU BG					
A	242-102	240-95	238'-9"					
в	40'-94"	40'-5 ¹ 8"	40'-1"					
ʻc'	52'-117"	52-68	52'-1'					
'D'	52-112	57'-63	52'-1"					
"E"	52-117	52'-63"	52'-1"					
'F'	42-22	41'-103	41'-6					
"G"	11-216	11-18	11'-0"					

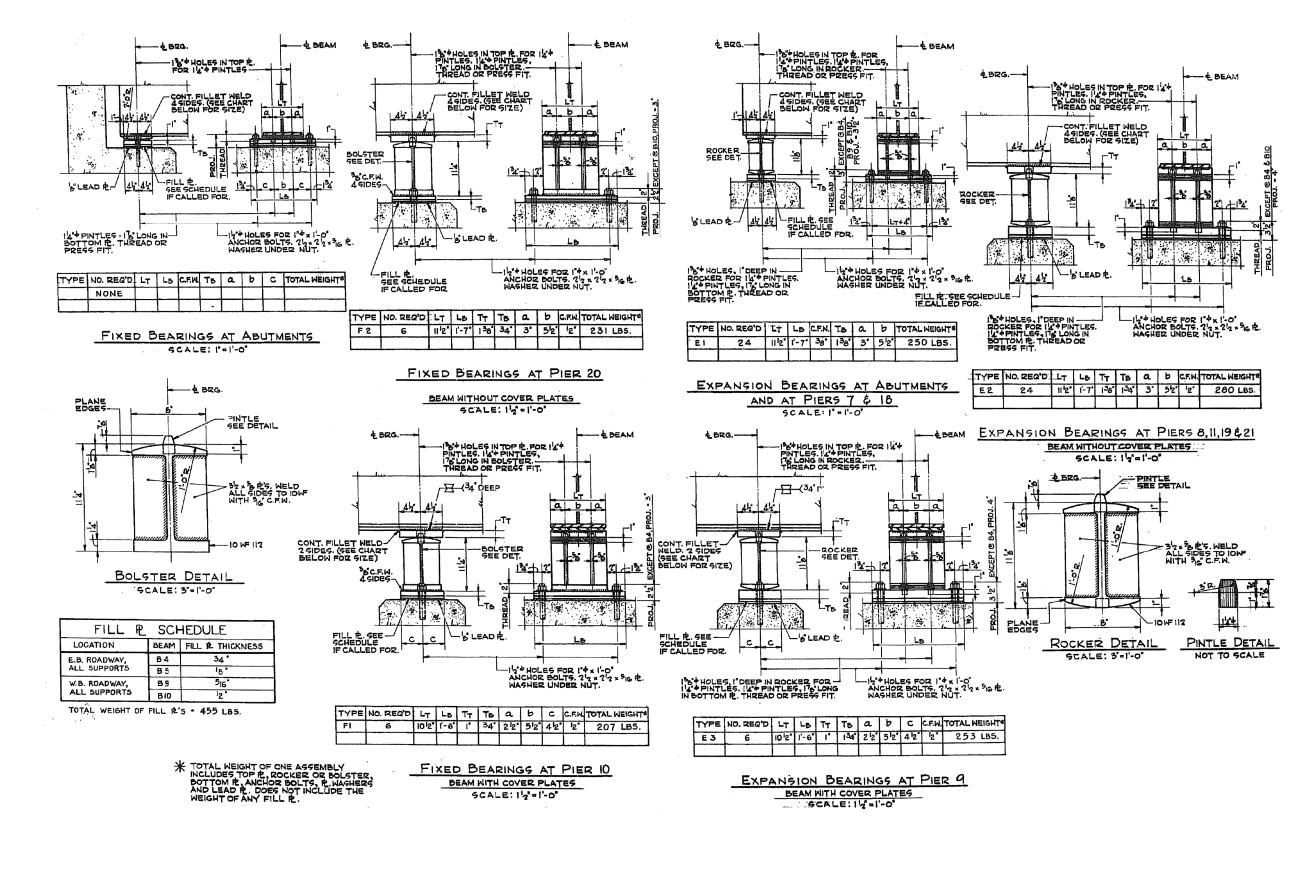
NOTES: FOR STRUCTURAL STEEL DESIGNATION, SEE GENERAL NOTES; SH. 3 FOR TABLES OF MOMENTS & REACTIONS, SEE SH. 23 FOR TABLE TOP/ WE ELEVATIONS, SEE SH. 23 FOR DIAPHRAGM DETAILS, SEE SH. 23



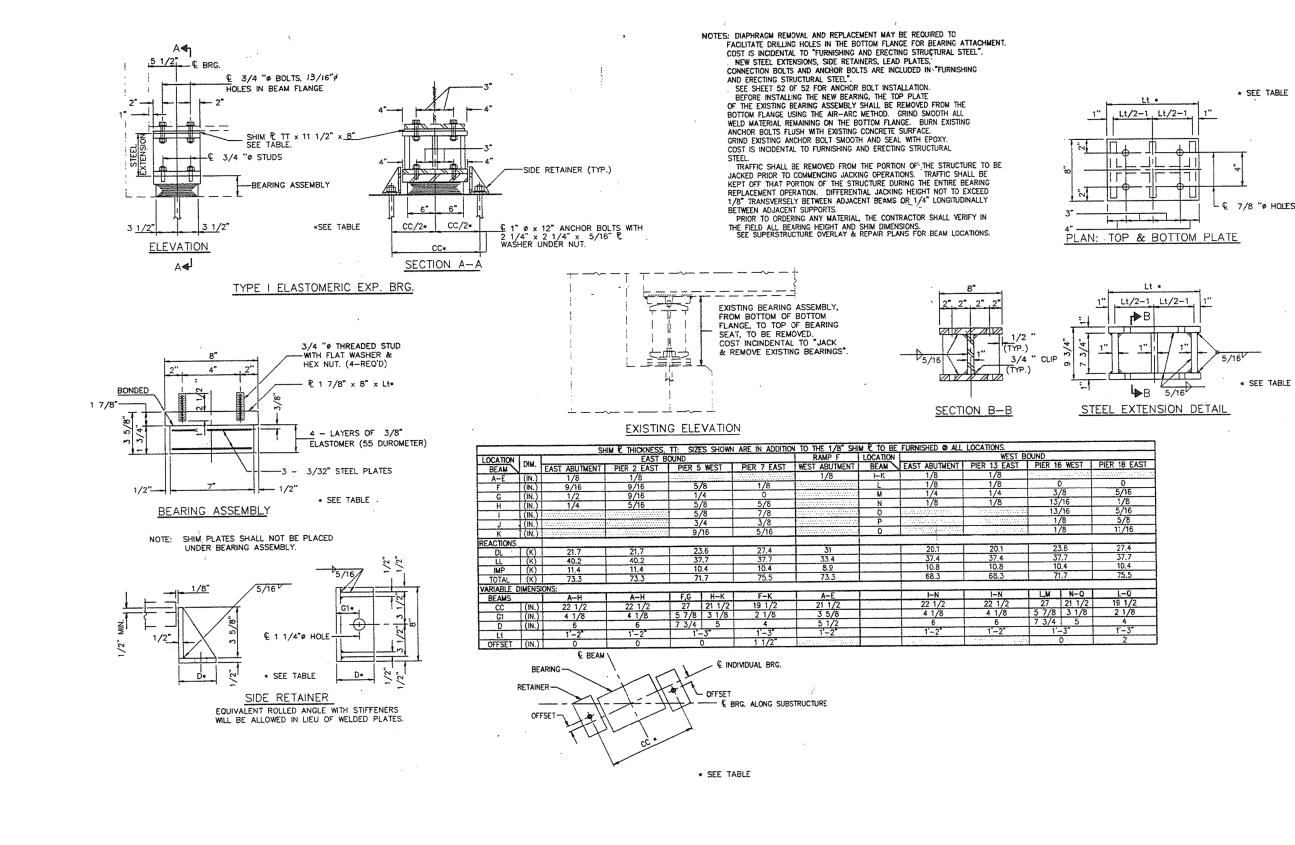
	TOP/WF ELEVATIONS*															
	CATION BEAM	BI	B2	83	в4	85	BG		LO	BEAM	B7	BB	в9	BIO	BII	812
	& BRG'S, PIER 7	3.886	4.050	4.169	4.227	4.17B	4.109			EBRG'S, PIER IB	4.056	4.158	4.240	4.259	4.213	4.147
	EPIER B	3.738	3.903	4.021	4.080	4.030	3.961			E PIER 19	3.860	3.961	4.044	4.062	4.016	3.950
≿∣	EFIELD SPLICE	3.698	3.862	3.981	4.039	3.990	3.921			& FIELD SPLICE \$5	3.807	3.909	3.991	4.009	3.963	3.897
DWAY	e PIER 9	3.546		3.830	3.868	3.639	3.770			& FIELD SPLICE	3.708	3.810	3.692	3.911	3.865	3.799
٠	€ FIELD SPLICE#2			3.789	3.647	3.798	3.729			¢ PIER 20	3.668	3.770	3.852	5.870		3.758
В0 В0	& FIELD SPLICE 3	3.395	3.560	3.678	3.737	3.687	3.618			& FIELD SPLICE 7		3.618	3.701		3.673	
đ	4 PIER 10		3.519		3.696	3.647	3.578			EPIER 21	3.476	3.57B		_		
យ	& FIELD SPLICE 4	3.204	3.368	3.487	3.545		3.427			& BRG'S, N.E.ABUT.			3.508			
	E PIER II	3.163	3.328	3.446	3.504	3.455	3.386									
	4 BRG'9, 5.W. ABUT.				_	3.303		8								

* ADD GTO.000 TO ALL TOP / WE ELEVATIONS GIVEN.

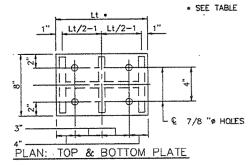
ORIG. UNIT D STEEL DETAILS – LOCATION 1	F.A.P. SECTION	COUNTY SHEETS NO.
	373 2013-040BP	СООК 122 17
SHEET NO. SA-11 OF SA-32 SHEETS		CONTRACT NO. 60W87
	STRUCTURE NO. 016-0486	STRUCTURE NO. 016–0486 373 2013-040BP



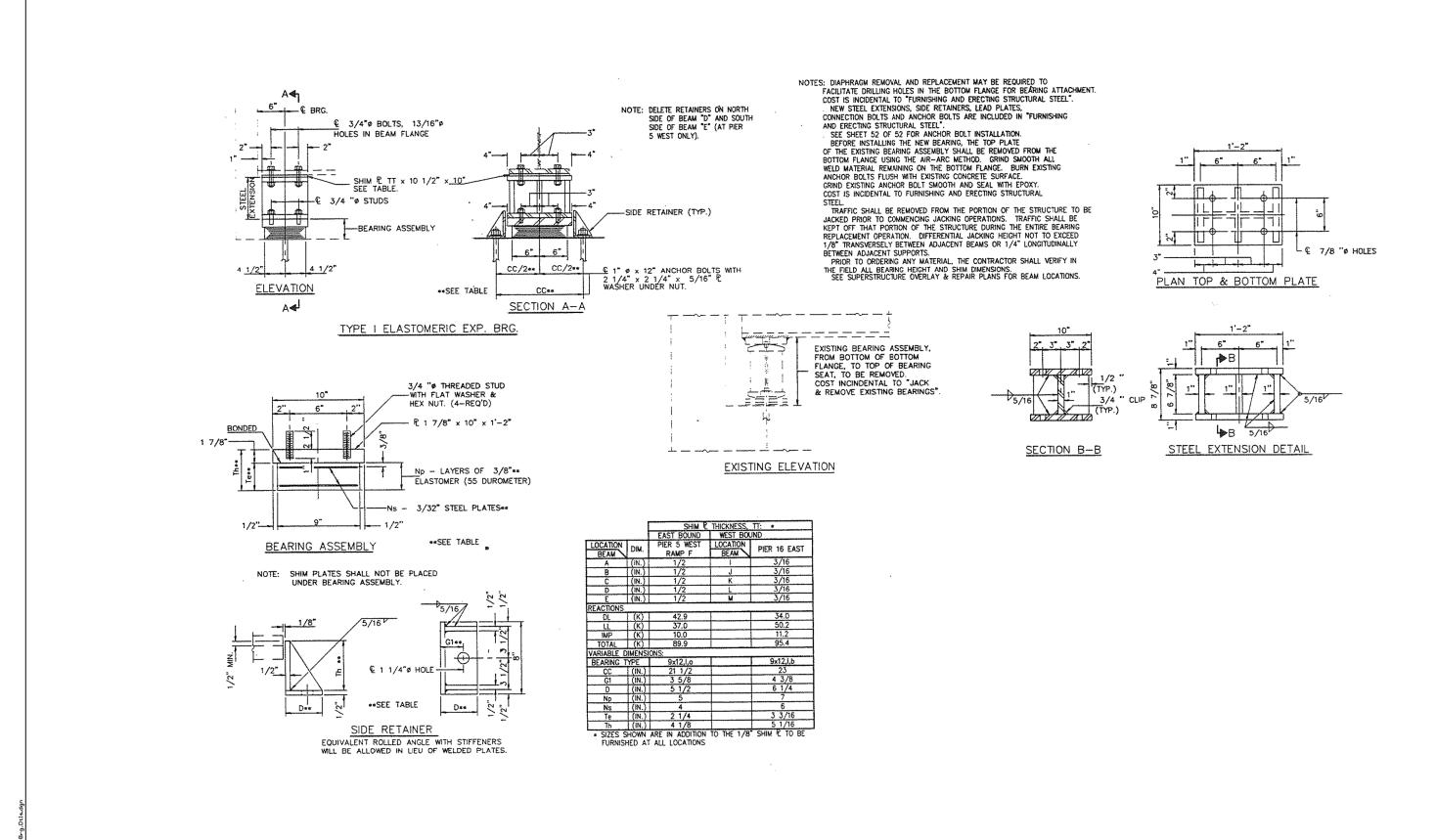
				1			
	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT D BEARING DETAILS – LOCATION 1	SECTION	COUNTY SHEETS NO
LIN LINOINLLININO,LID.		CHECKED -			777 2017 040PD		
Consulting Engineers		STRUCTURE NO. 016–0486	373 2013-040BP	LUUK 122 18			
Springfield, Illinois	PLUT SLALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60W87
	PLOT DATE = 12/05/2018 2:04:39 PM	CHECKED -	REVISED -		SHEET NO. SA-12 OF SA-32 SHEETS	ILLINOIS FED. 4	AID PROJECT



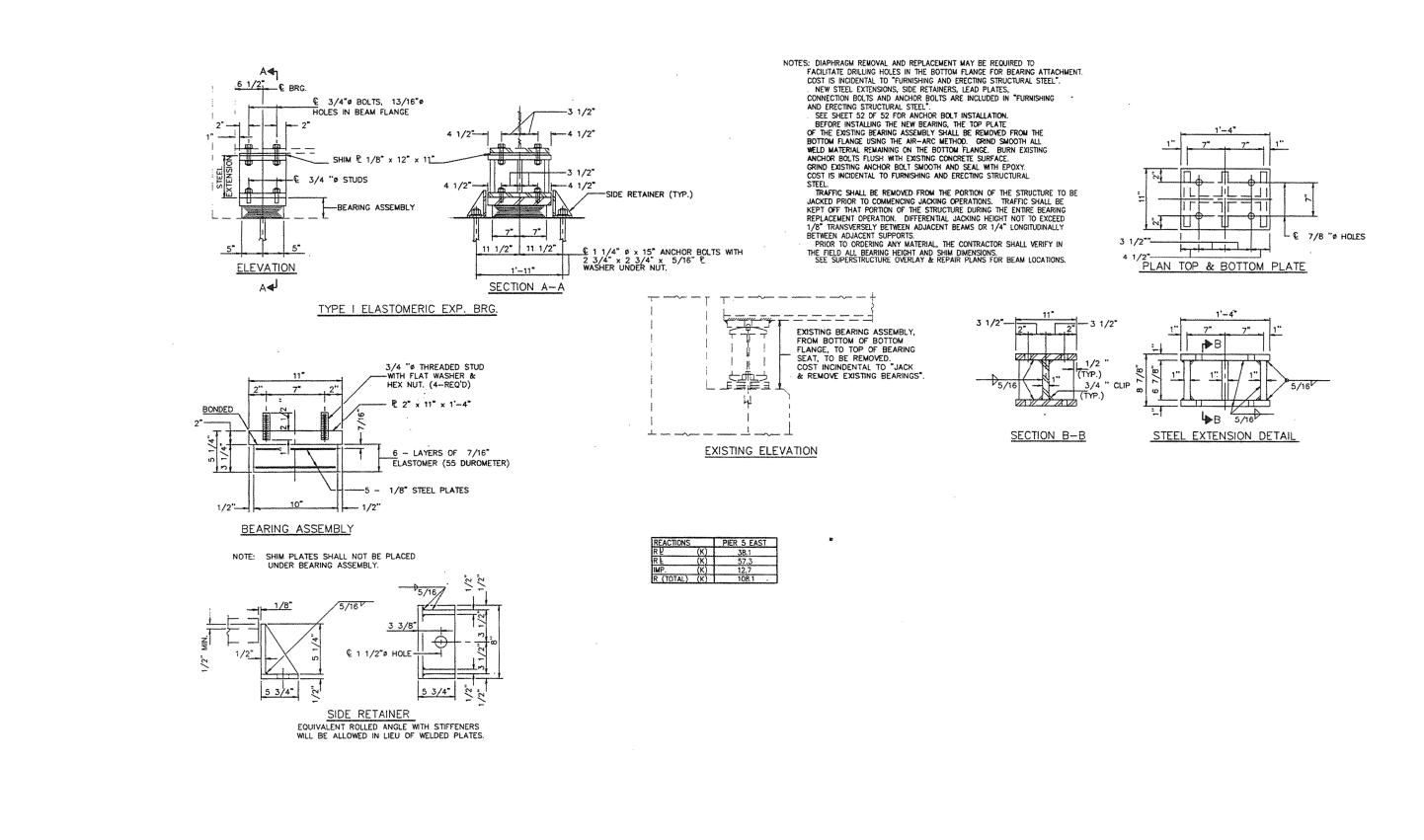
	USER NAME = Lin_31	DESIGNED -	REVISED -			F.A.P.	SECTION	COUNTY	TOTAL SHEET
			STATE OF ILLINOIS	1993 BEARING REPLACEMENT DETAILS - LOCATION 1	RTE.	2013-0408P	СООК	SHEETS NO.	
			REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0486	515	2013-04086		T NO. 60W87
Springfield, Illinois	PLOT DATE = 12/05/2018 2:05:31 PM	CHECKED -	REVISED -		SHEET NO. SA-13 OF SA-32 SHEETS		ILLINOIS FED. A	ID PROJECT	



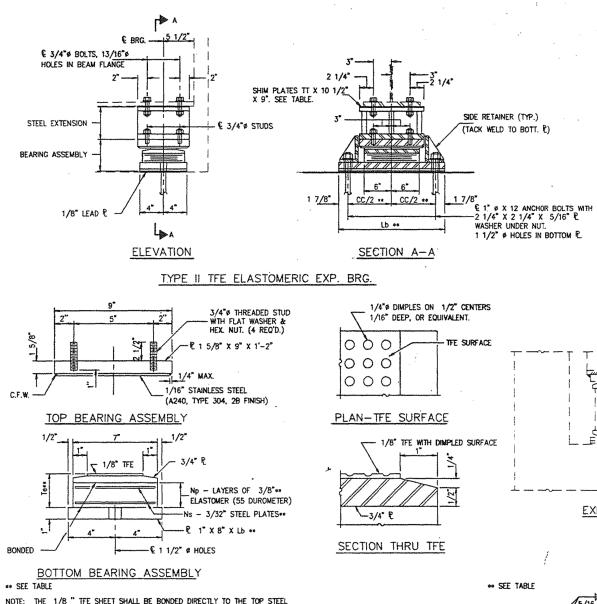
ST BO			
AST	PIER 16	WEST	PIER 18 EAST
	···	a.a.eva.d	
	C		D
	3/		5/15
	13/	/16	1/8
	13/	/16	5/16
	1/	8	5/8
	1/	'8	11/16
	23	.6	27.4
	37	.7	37,7
	10		10.4
	71	.7	75.5
	L,M	N-Q	L-Q
2	27	21 1/2	19 1/2
	5 7/8	3 1/8	2 1/8
	7 3/4	5	4
	1'-	-3"	ť~3
it.	(5	2



	USER NAME = Lin_31	DESIGNED -	REVISED -		1993 BEARING REPLACEMENT DETAILS - LOCATION 1	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
LIN ENGINEERING,L	D	CHECKED - REVISED -		STATE OF ILLINOIS	STRUCTURE NO. 016-0486	373	2013-040BP	СООК	122	20
Springfield, Illinois	PLOT SCALE = PLOT DATE = 12/05/2018 2:06:25 PM	DRAWN – CHECKED –	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. SA-14 OF SA-32 SHEETS		ILLINOIS FED. AI	CONTRACT	T NO. 60	JW87



		USER NAME = Lin_31	DESIGNED -	REVISED -		1993 BEARING REPLACMENT DETAILS – LOCATION 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
Consulting Engineers Springfield, Illinois		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0486	373	2013-040BP	СООК	122 21	
	PLOT SCALE = PLOT DATE = 12/05/2018 2:07:19 PM	DRAWN – CHECKED –	REVISED – REVISED –	DEPARTMENT OF TRANSPORTATION	SHEET NO. SA-15 OF SA-32 SHEETS		ILLINOIS FED.	CONTRAC	T NO. 60W87	



1/8

5/16

€ 1 1/4" & HOLF

SIDE RETAINER

EQUIVALENT ROLLED ANGLE WITH STIFFENERS

WILL BE ALLOWED IN LIEU OF WELDED PLATES.

1/2"

¥

12

NOTE: THE 1/8 " TFE SHEET SHALL BE BONDED DIRECTLY TO THE TOP STEEL PLATE WITH A TWO-COMPONENT, MEDIUM VISCOSITY EPOXY RESIN, CONFORMING TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATION MMM-A-134, TYPE I. THE BOND AGENT SHALL BE APPLIED ON THE FULL AREA OF THE CONTACT SURFACES.

BONDING OF 1/8 ". TFE SHEET DURING VULCANIZING PROCESS WILL BE PERMITTED PROVIDED "THE PROCESS AND METHOD OF ADJUSTING ASSEMBLY HEIGHT IS APPROVED BY THE ENGINEER.

NOTES: DIAPHRAGM REMOVAL AND REPLACEMENT MAY BE REQUIRED TO FACULTATE DRILLING HOLES IN THE BOTTOM FLANCE FOR BEARING ATTACHMENT. COST IS INCIDENTAL TO "FURNISHING AND ERECTING STRUCTURAL STEEL". NEW STEEL EXTENSIONS, SIDE RETAINERS, LEAD PLATES, DEVICED DATA NOT DEVICE DEVICE DEFENSION DEFENSION.

NEW STEEL EXTENSIONS, SIDE RETAINERS, LEAD PLATES, CONNECTION BOLTS AND ANCHOR BOLTS ARE INCLUDED IN "FURNISHING AND ERECTING STRUCTURAL STEEL". SEE SHEET 52 OF 52 FOR ANCHOR BOLT INSTALLATION. BEFORE INSTALLING THE NEW BEARING, THE TOP PLATE OF THE EXISTING BEARING ASSEMBLY SHALL BE REMOVED FROM THE BOTTOM FLANGE USING THE AIR-ARC METHOD. GRIND SMOOTH ALL WELD MATERIAL REMAINING ON THE BOTTOM FLANGE. BURN EXISTING ANCHOR BOLTS FLUSH WITH EXISTING CONCRETE SURFACE. GRIND EXISTING ANCHOR BOLT SMOOTH AND SEAL WITH EPOXY. COST IS INCIDENTAL TO FURNISHING AND ERECTING STRUCTURAL STEEL.

TEEL TRAFFIC SHALL BE REMOVED FROM THE PORTION OF THE STRUCTURE TO BE JACKED PRIOR TO COMMENCING JACKING OPERATIONS. TRAFFIC SHALL BE KEPT OFF THAT PORTION OF THE STRUCTURE DURING THE ENTRE BEARING REPLACEMENT OPERATION. DIFFERENTIAL JACKING HEIGHT NOT TO EXCEED REPLACEMENT OFERATION. DIFFERENTIAL JACKING HEIGHT NUT TO EXCELU 1/8 TRANSVERSELY BETWEEN ADJACENT BEAMS OR 1/4* LONGITUDINALLY BETWEEN ADJACENT SUPPORTS. PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL BEARING HEIGHT AND SHIM DIMENSIONS. SEE SUPER STRUCTURE OVERLAY & REPAIR PLANS FOR BEAM LOCAATIONS.

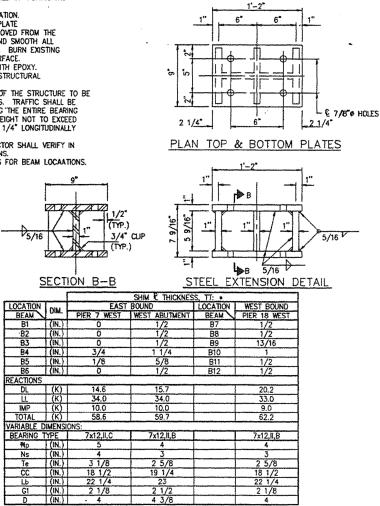
EXISTING BEARING ASSEMBLY, FROM BOTTOM OF BOTTOM FLANGE, TO TOP OF BEARING

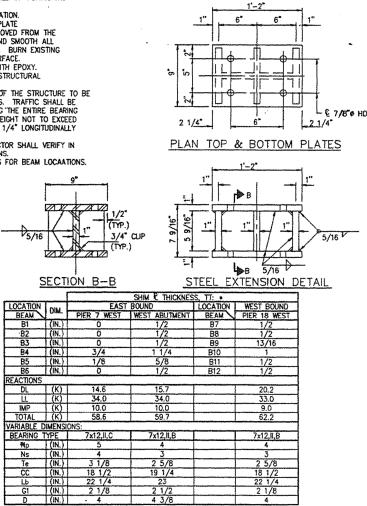
COST INCINDENTAL TO *JACK

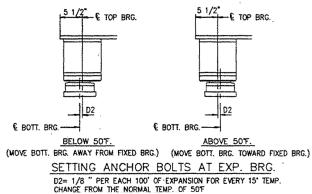
& REMOVE EXISTING BEARING"

SEAT, TO BE REMOVED.

EXISTING ELEVATION

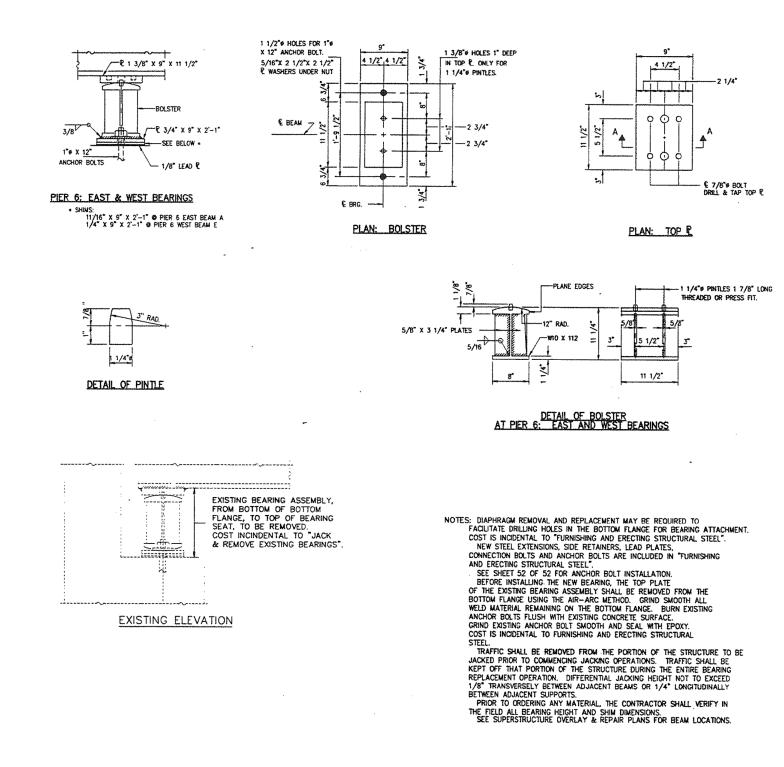






	LIN ENGINEERING,LTD. Consulting Engineers Springfield, Illinois	USER NAME = Lin_31	DESIGNED -	REVISED -		1993 BEARING REPLACEMENT DETAILS - LOCATION 1	F.A.P. SECTION	COUNTY TOTAL SHEET
			CHECKED -	REVISED -	STATE OF ILLINOIS		373 2013-040BP	СООК 122 22
		PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0486		CONTRACT NO. 60W87
	opringnero, minors	PLOT DATE = 12/05/2018 2:08:13 PM	CHECKED -	REVISED -		SHEET NO. SA-16 OF SA-32 SHEETS	ILLINOIS FED. A	ID PROJECT

. IN ADDITION TO 1/8" SHIMS TO BE PROVIDED @ ALL BEARING LOCATIONS.



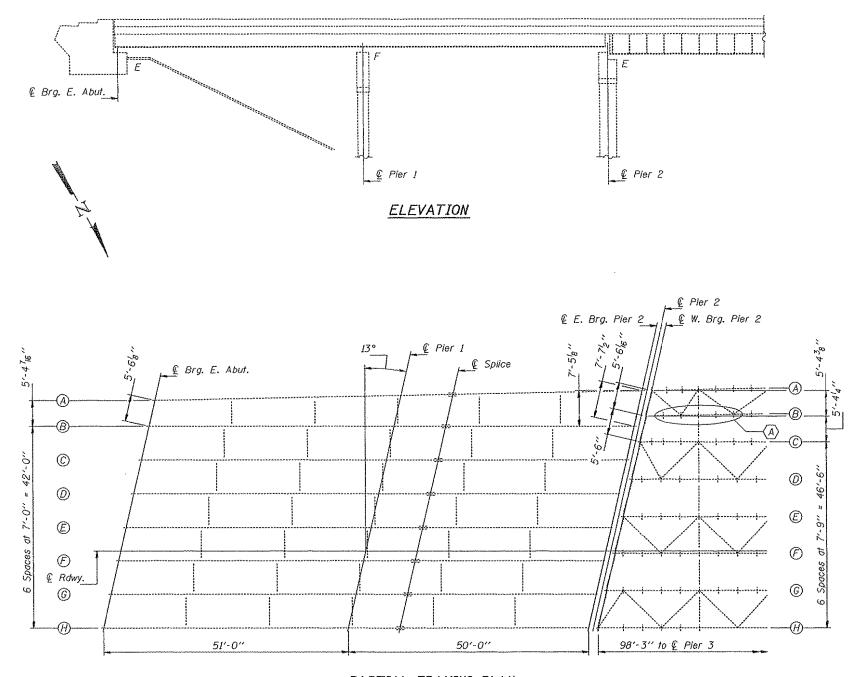
DESIGNED -REVISED -USER NAME = Lin_31 **1993 BEARING REPLACEMENT** LIN ENGINEERING, LTD. STATE OF ILLINOIS CHECKED -REVISED -Consulting Engineers STRUCTURE NO PLOT SCALE = DRAWN REVISED **DEPARTMENT OF TRANSPORTATION** Springfield, Illinois SHEET NO. SA-17 OF PLOT DATE = 12/05/2018 2:09:07 PM CHECKED -REVISED -

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4 1/2

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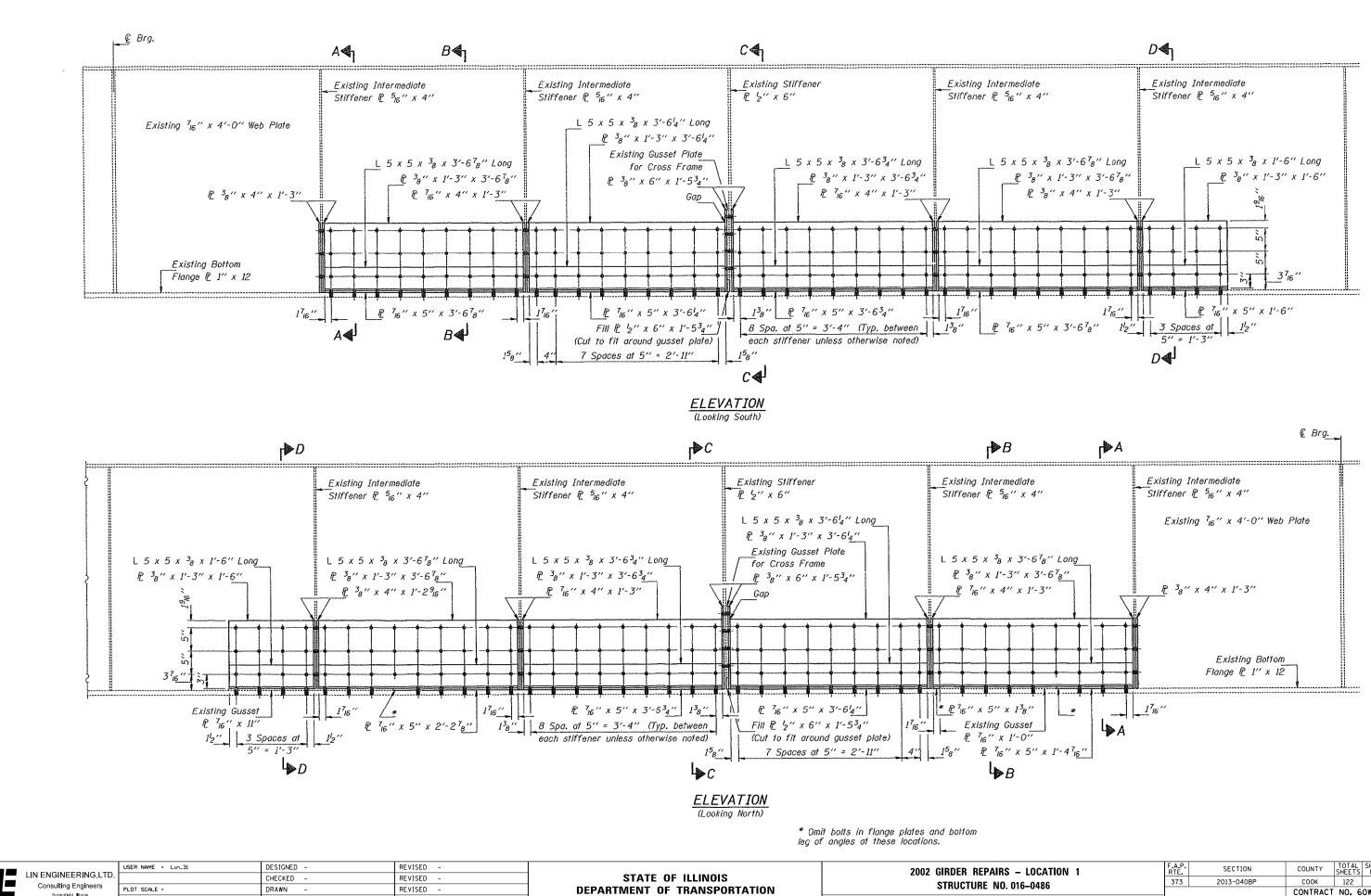
SECTION A-A



PARTIAL FRAMING PLAN

$\langle A \rangle$	Repair	existing	girder	В	Span	3	by	plating.	
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-										
"		USER NAME = Lin_31	DESIGNED -	REVISED -		2002 GIRDER REPAIRS – LOCATION 1	F.A.P.	SECTION	COUNTY	TOTAL SHEET
			CHECKED -	REVISED -	STATE OF ILLINOIS		373	2013-040BP	СООК	122 24
₩.	Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0486				CT NO. 60W87
	Springhau, minos	PLOT DATE = 12/05/2018 2:10:01 PM	CHECKED -	REVISED -		SHEET NO. SA-18 OF SA-32 SHEETS		ILLINOIS FED.	AID PROJECT	

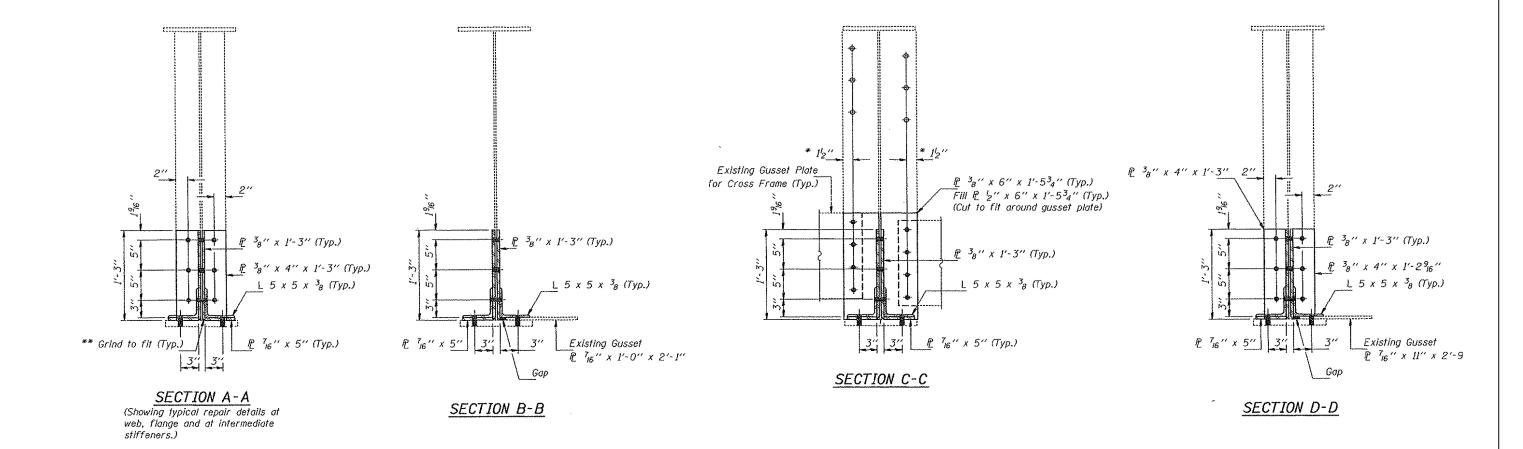


PLOT DATE = 12/05/2018 2:10:47 PM CHECKED -

REVISED -

SHEET NO. SA-19 OF S

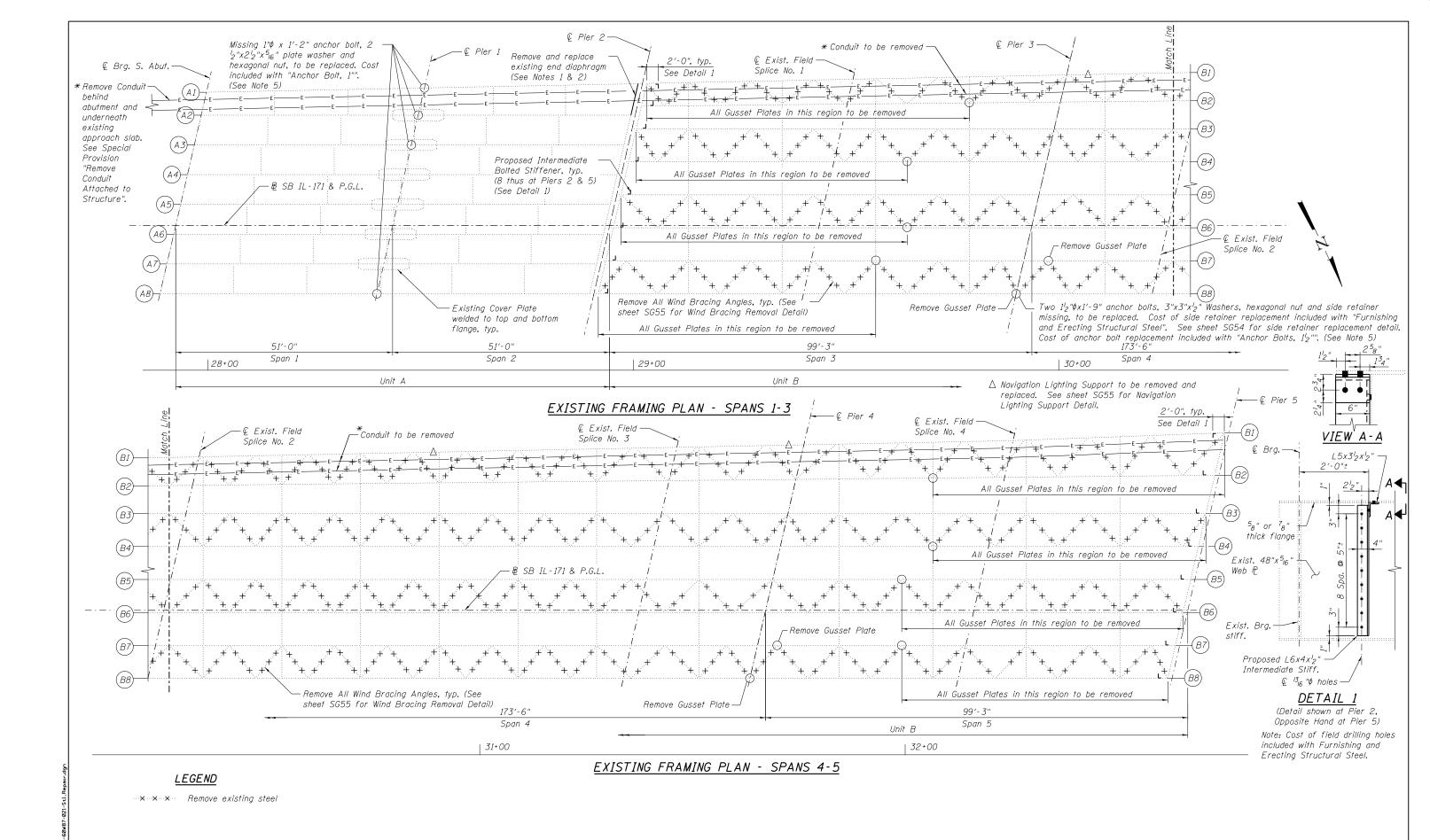
S – LOCATION 1		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016–0486	373	2013-040BP	СООК	122	25
. 010-0480			CONTRACT	NO. 6	OW87
SA-32 SHEETS		ILLINOIS FED. AI	D PROJECT		



 Remove existing rivets and field drill holes in new plates using holes in existing gusset plate as template. Cost included with Structural Steel Repair.
 "* Grind all ³_B" Web Plates as shown in Section A-A.

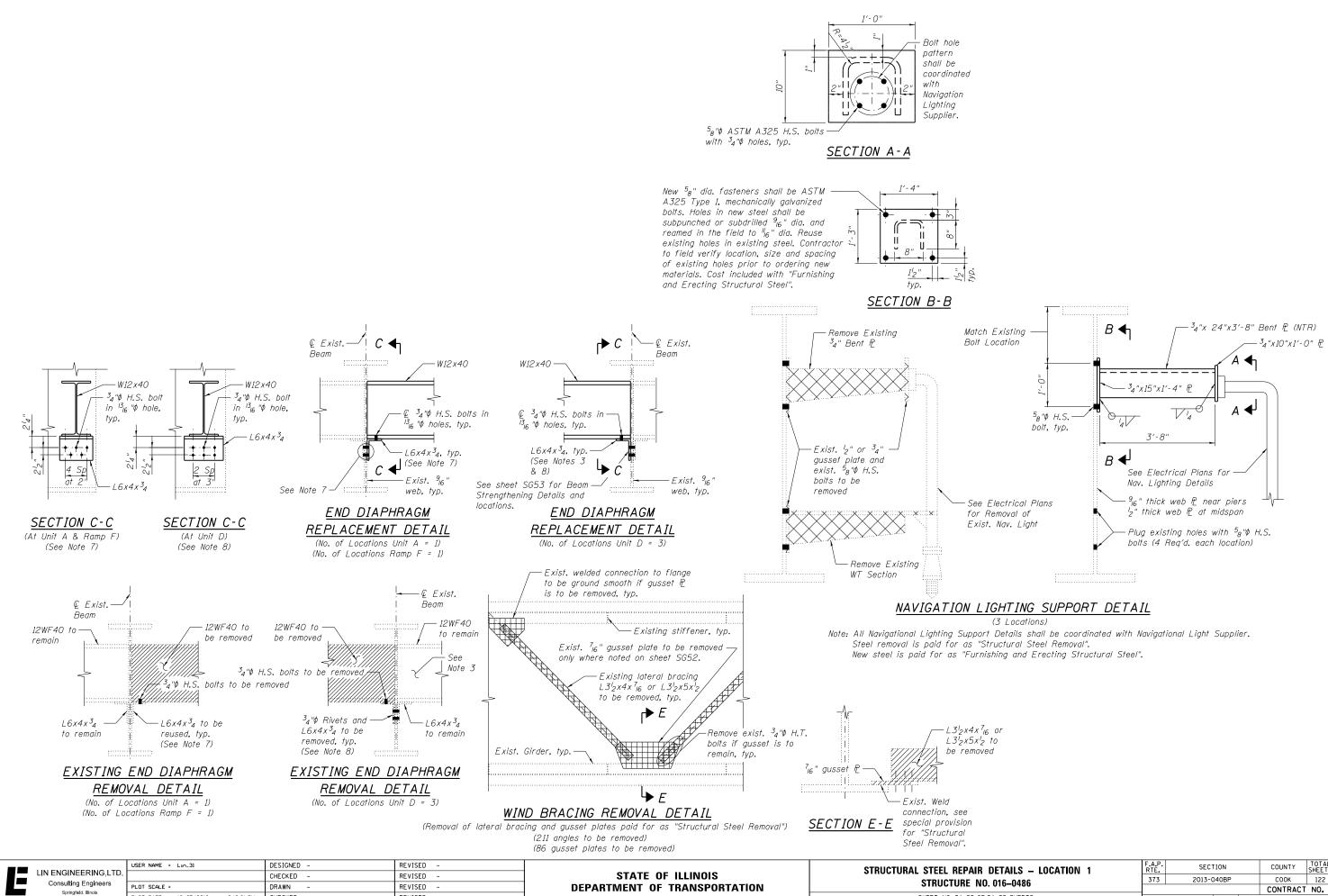
		USER NAME = Lin_31	DESIGNED -	REVISED -		2002 GIRDER REPAIRS – LOCATION 1	F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEET
LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	INEERING, LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0486	373	2013-040BP	соок	122 26
	* *	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT	NO. 60W87
		PLOT DATE = 12/05/2018 2:11:36 PM	CHECKED -	REVISED -		SHEET NO. SA-20 OF SA-32 SHEETS		ILLINOIS FED. AID PROJECT		

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DESIGNED -REVISED USER NAME = Lin_31 UNIT A & B STEEL REPAIR LIN ENGINEERING, LTD. STATE OF ILLINOIS CHECKED -REVISED Consulting Engineers STRUCTURE NO. PLOT SCALE = DRAWN REVISED **DEPARTMENT OF TRANSPORTATION** Springfield, Illinois SHEET NO. SA-21 OF S PLOT DATE = 12/05/2018 REVISED 2:12:25 PM CHECKED -

PLAN – LOCATION 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
. 016–0486	373	2013-040BP	СООК	122	27		
. 010-0400			CONTRACT	NO. 6	OW87		
SA-32 SHEETS		ILLINOIS FED. AID PROJECT					



PLOT DATE = 12/05/2018 2:12:31 PM

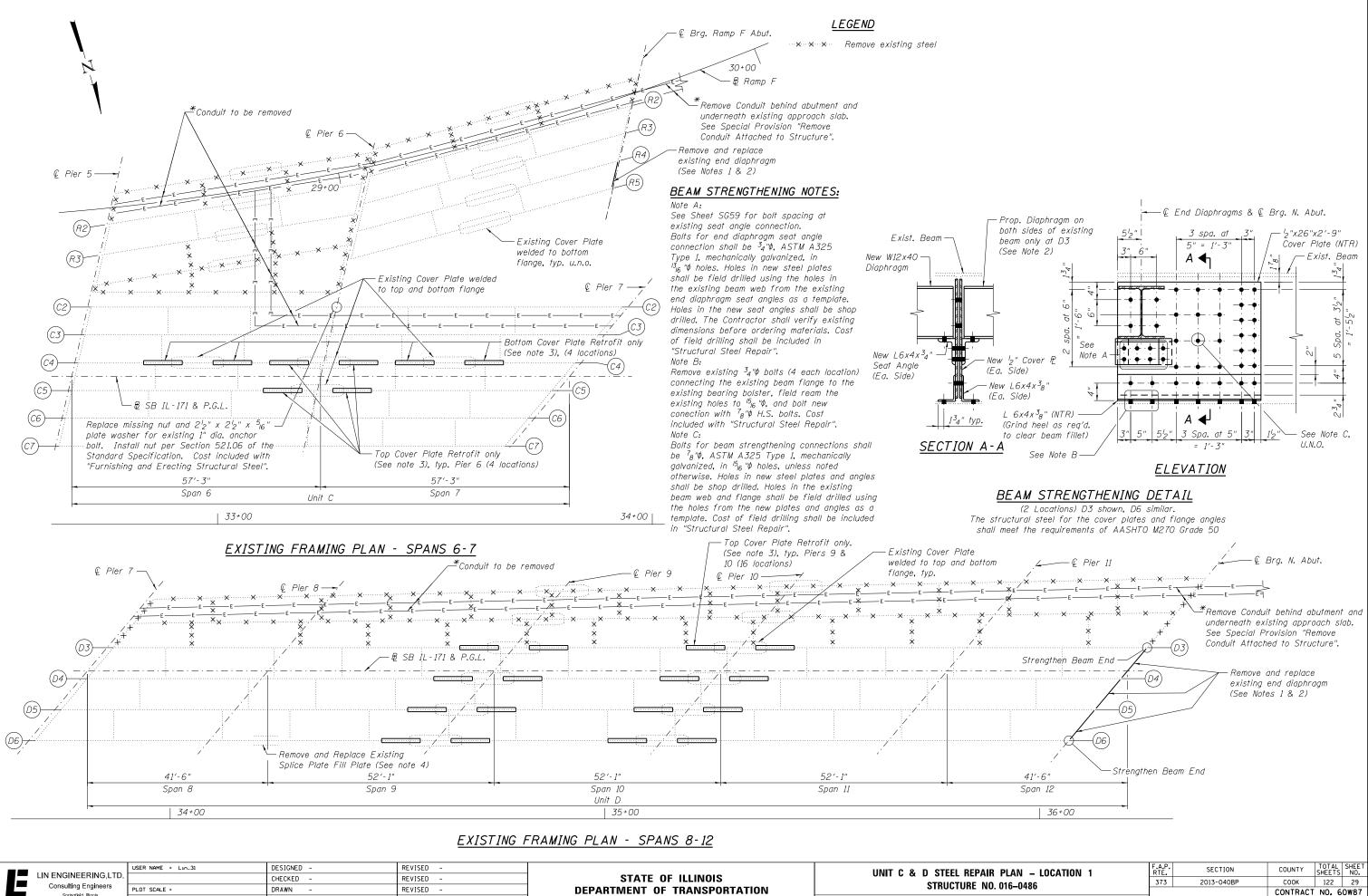
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REVISED

SHEET NO. SA-22 OF S

or	
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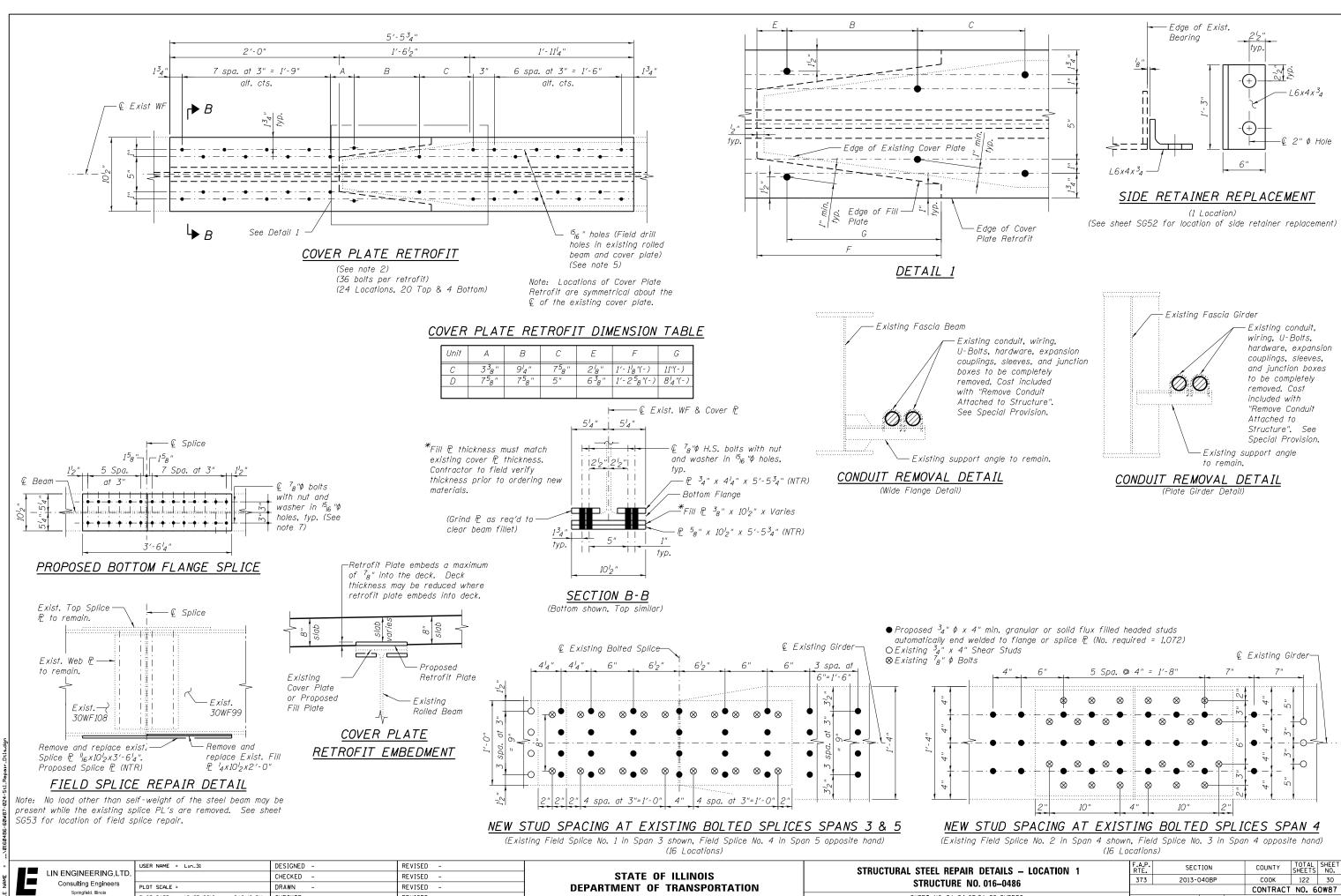
DETAILS – LOCATION 1		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 016–0486	373	2013-040BP	СООК	122	28
. 010–0480			CONTRACT	NO. 6	0W87
SA-32 SHEETS		ILLINOIS FED. A	D PROJECT		



LIN ENGINEERING, LTD.	USER NAME = Lin_31	DESIGNED - CHECKED -	REVISED - REVISED -	STATE OF ILLINOIS	UNIT C & D STEEL REPAIR PL		
Consulting Engineers	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 0		
Springfield, Illinois	PLOT DATE = 12/05/2018 2:12:37 PM	CHECKED -	REVISED -		SHEET NO. SA-23 OF SA-32		

-32 SHEETS

ULINOIS FED AID PROJECT

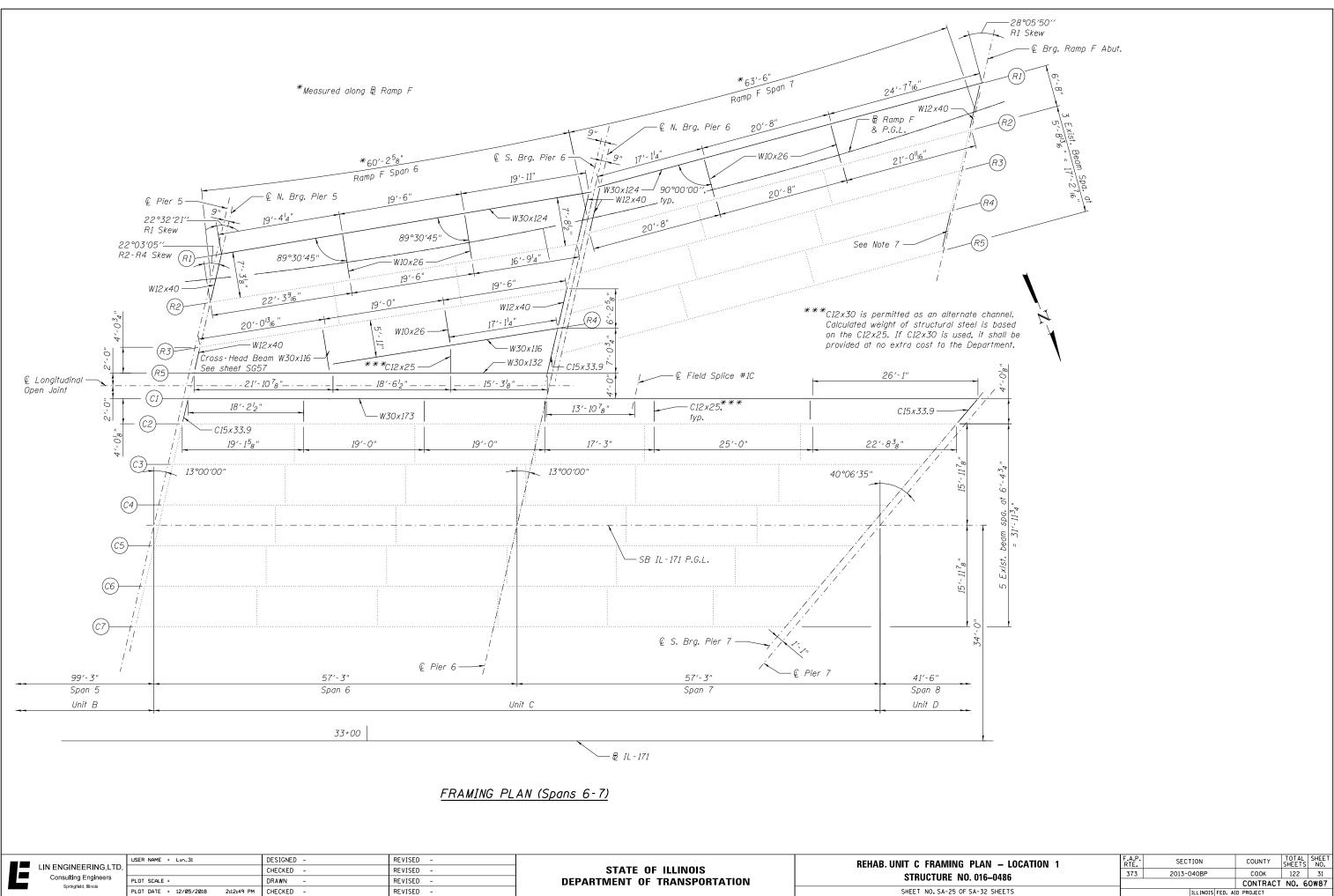


PLOT DATE = 12/05/2018 2:12:43 PM

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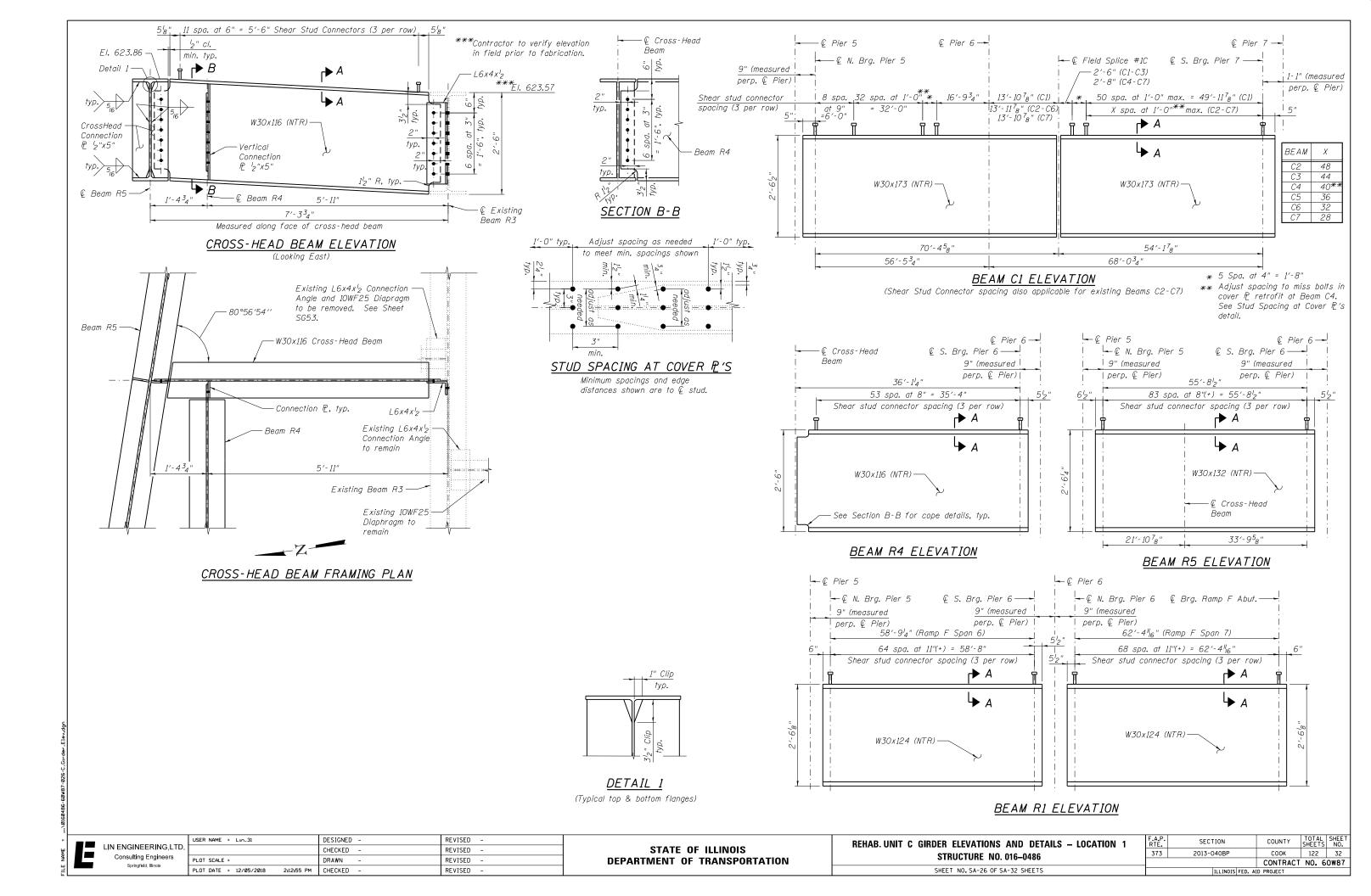
REVISED

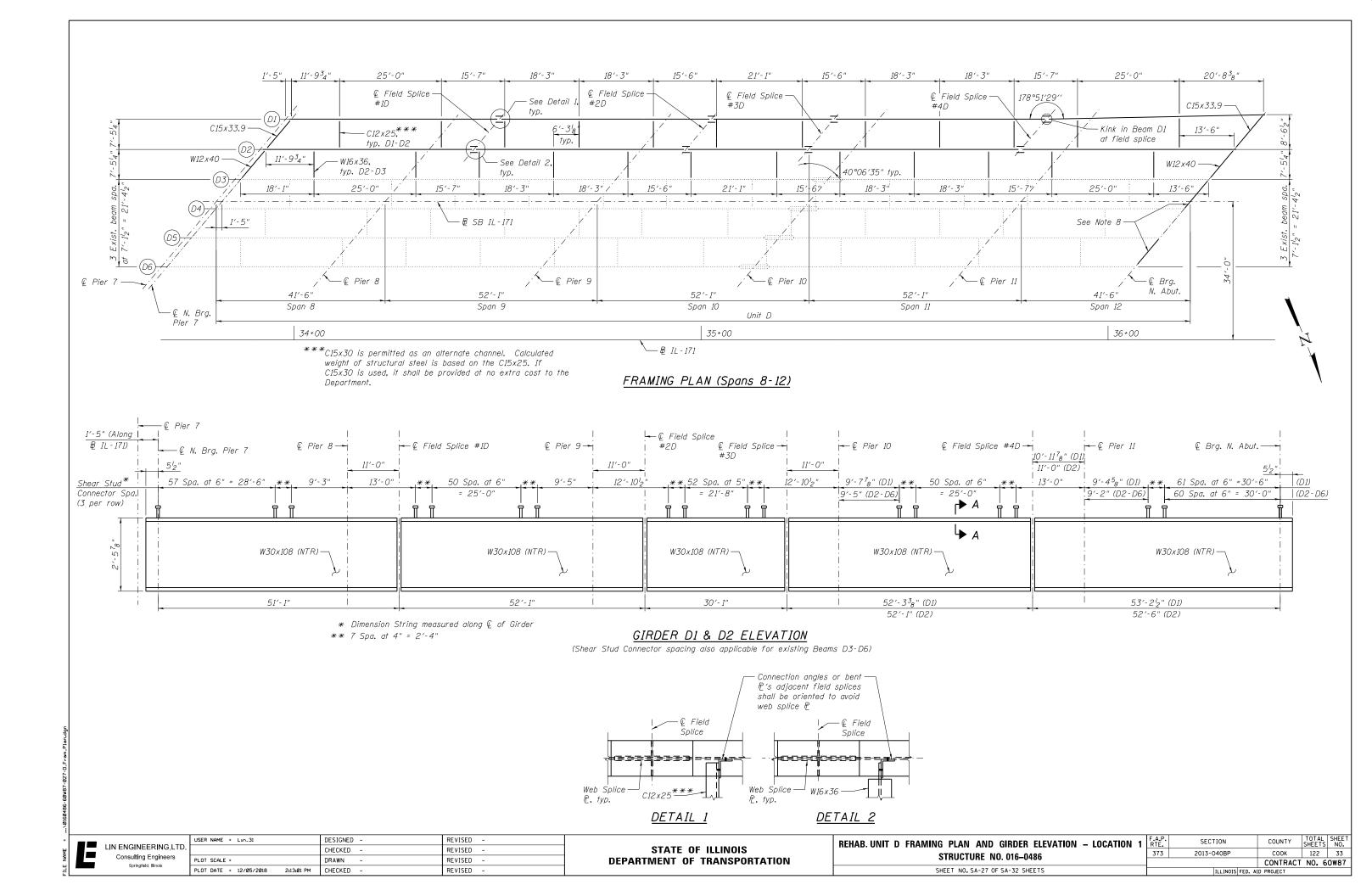
CONTRACT NO. 60W87 SHEET NO. SA-24 OF SA-32 SHEETS ULINOIS FED AID PROJECT

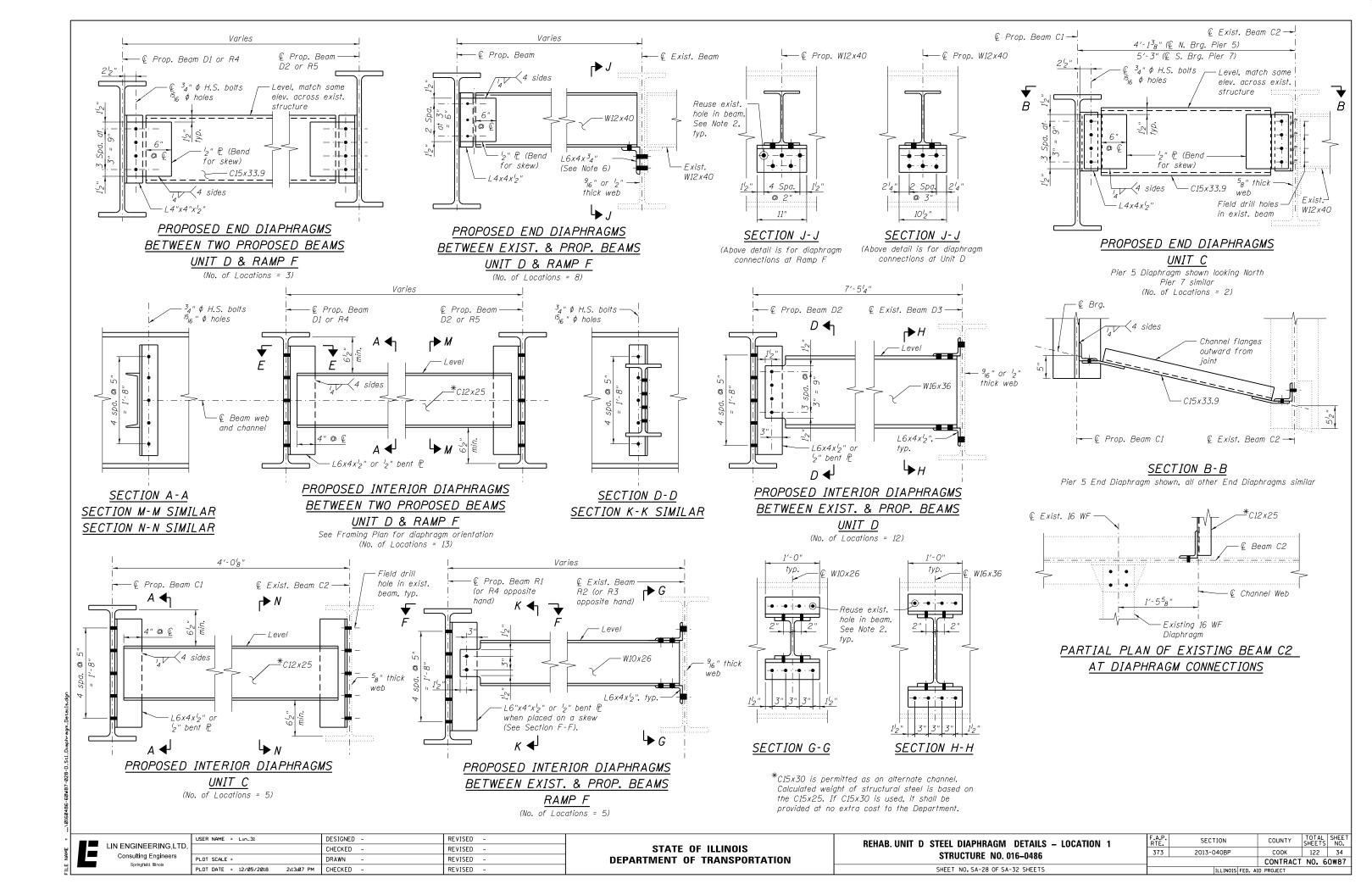


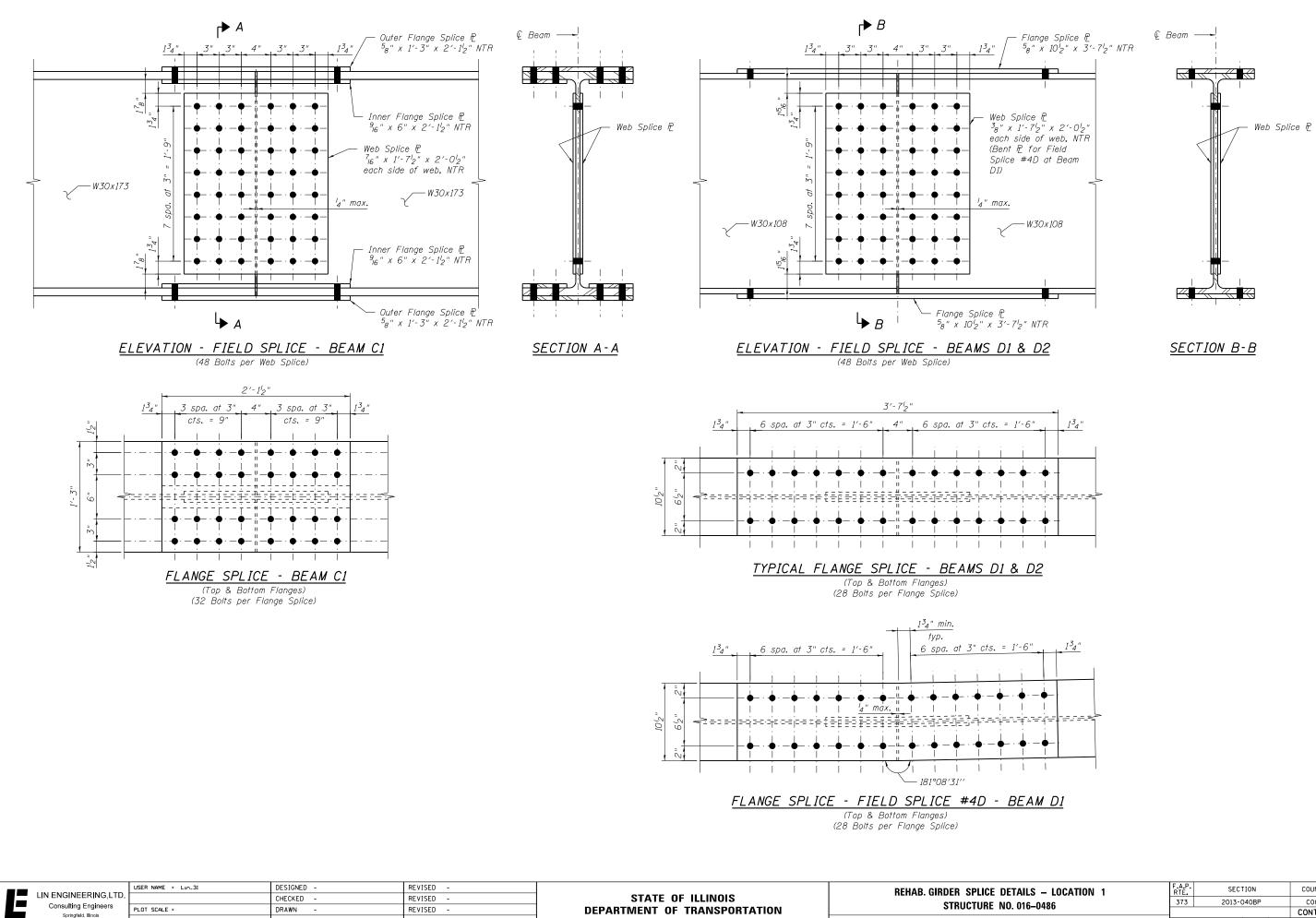
SHEET NO. SA-25 OF SA-32 SHEETS

ILLINOIS FED. AID PROJECT









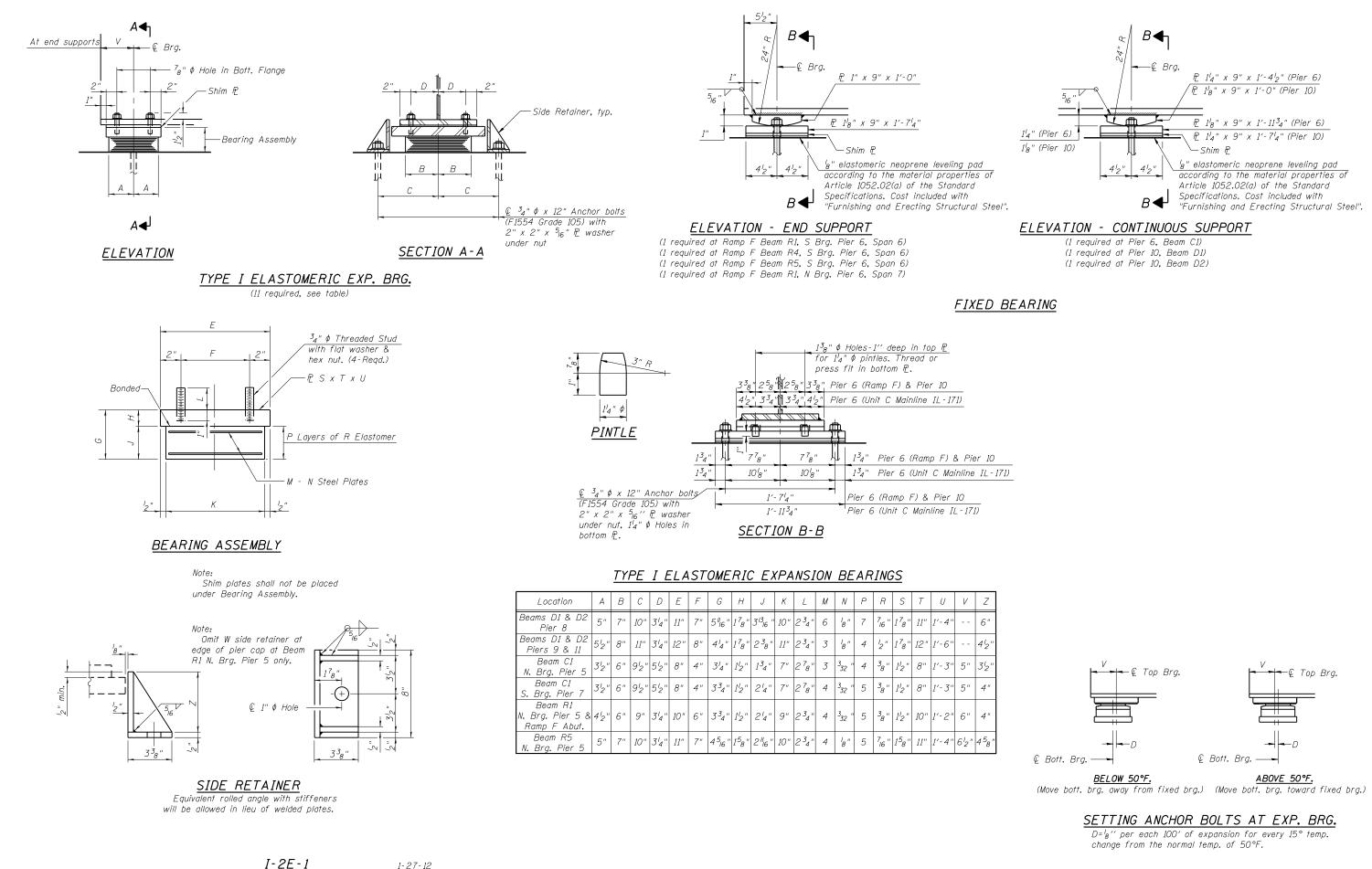
SHEET NO. SA-29 OF SA

Springfield, Illinois

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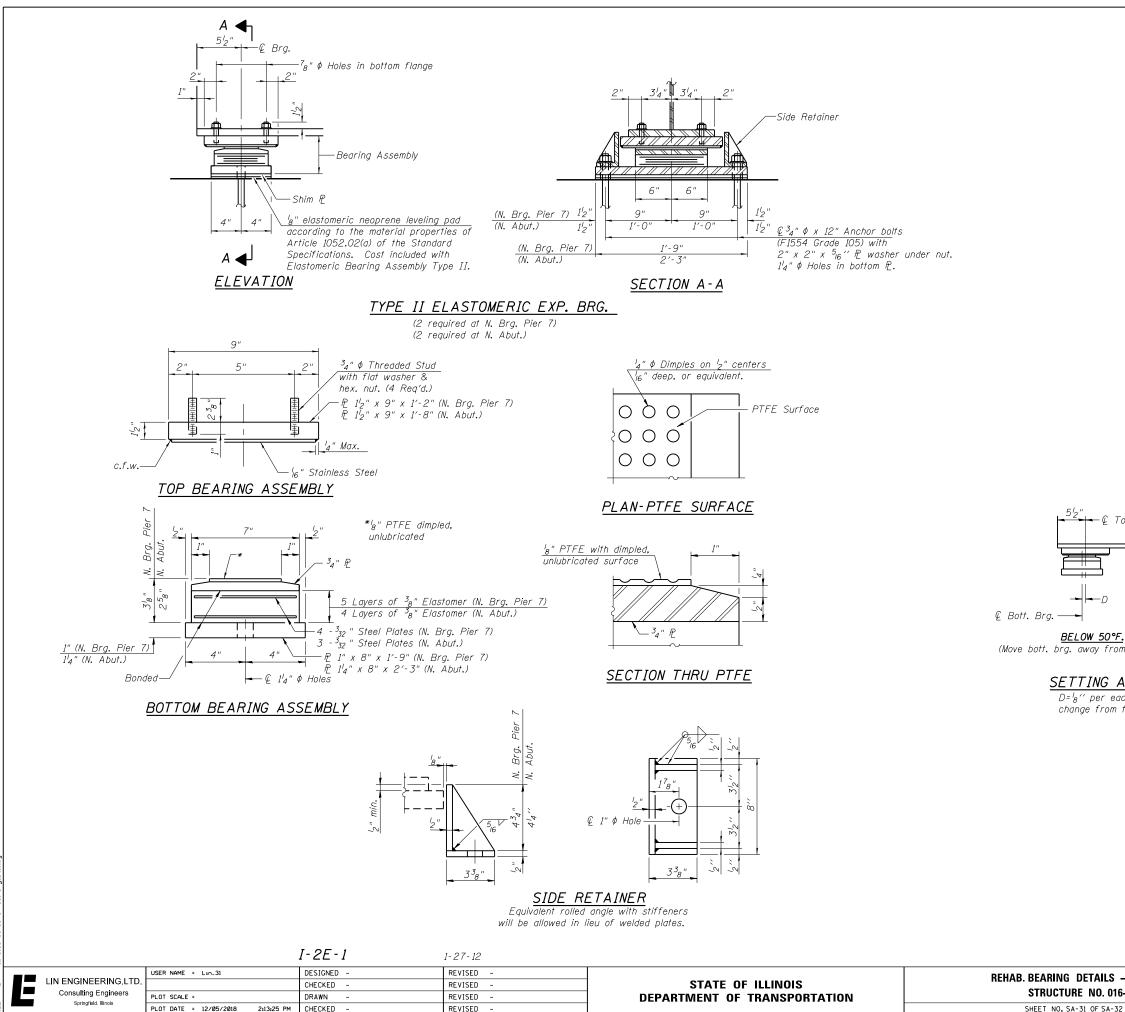
REVISED -

TAILS – LOCATION 1	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016–0486	373	2013-040BP	СООК	122	35
. 010-0480			CONTRACT	NO. 6	OW87
SA-32 SHEETS		ILLINOIS FED. AI	D PROJECT		



USER NAME = Lin_31 DESIGNED -REVISED REHAB. BEARING DETAILS LIN ENGINEERING, LTD. STATE OF ILLINOIS CHECKED -REVISED -Consulting Engineers STRUCTURE NO. LOT SCALE = DRAWN REVISED **DEPARTMENT OF TRANSPORTATION** Springfield, Illinois SHEET NO. SA-30 OF SA PLOT DATE = 12/05/2018 2:13:19 PM CHECKED -REVISED -

					I	
LS – LOCATION 1	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
016-0486	373	2013-040BP	СООК	122	36	
010-0480			CONTRACT	NO. 6	0W87	
A-32 SHEETS		ILLINOIS FED. AID PROJECT				



SHEET NO. SA-31 OF SA

⊢∉ Top Brg. -∉ Top Brg.

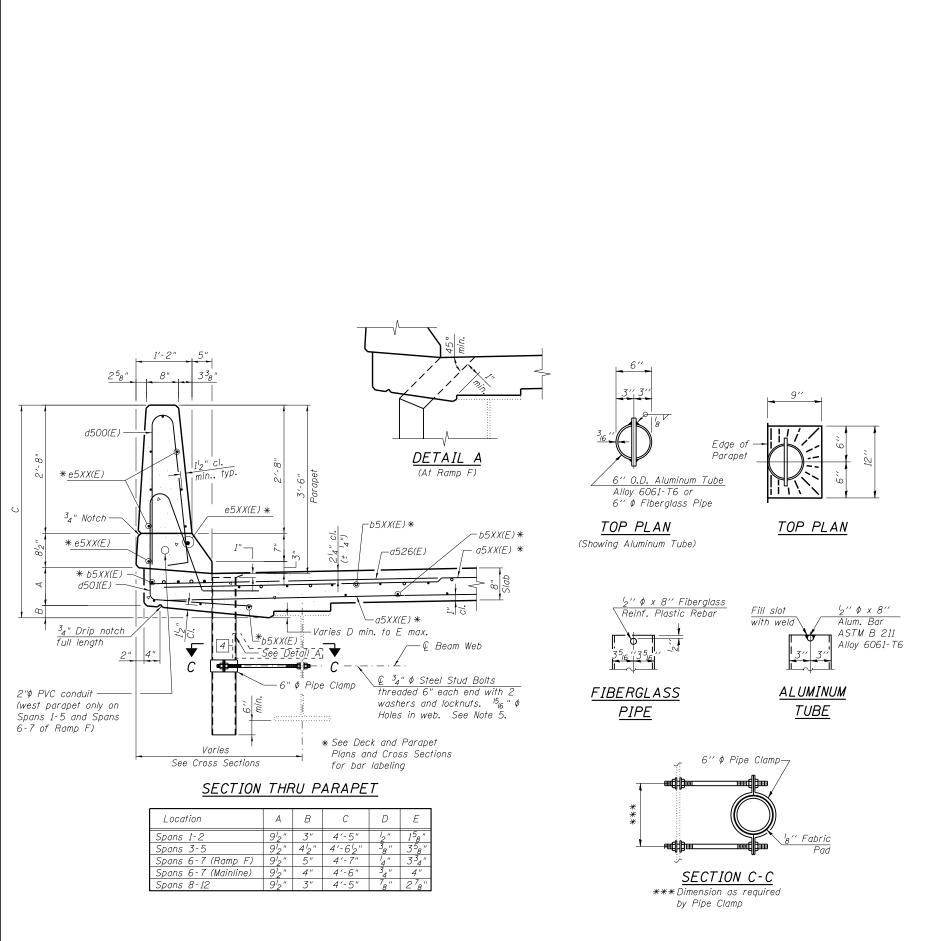
© Bott. Brg.

ABOVE 50°F. (Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

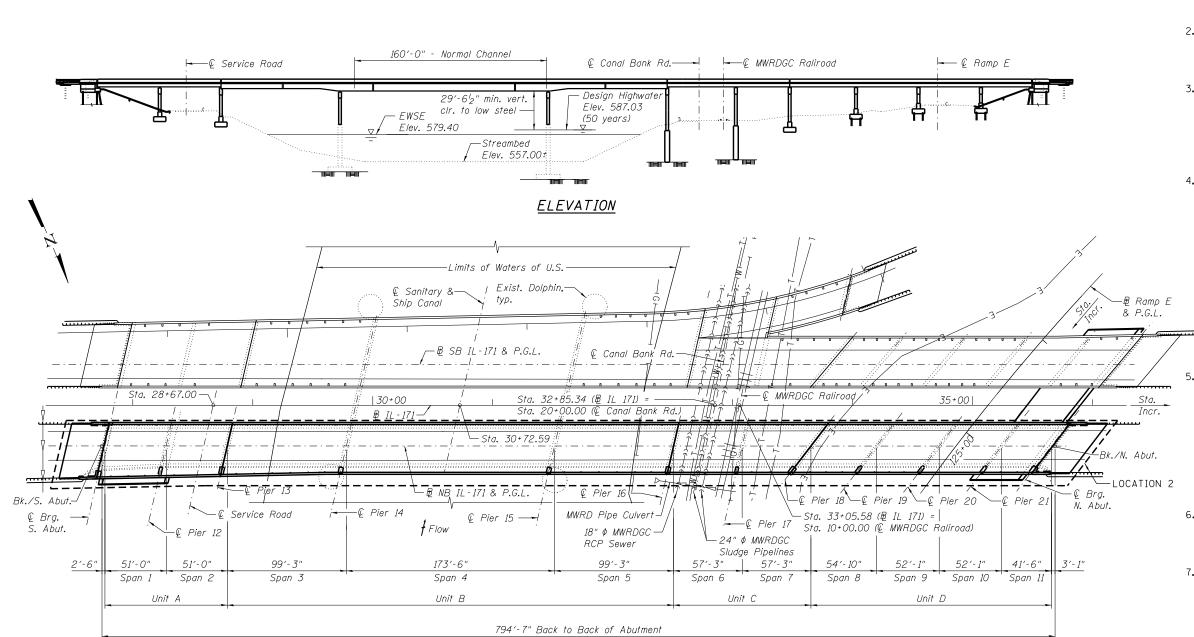
SETTING ANCHOR BOLTS AT EXP. BRG.

 $D = {}^{I}_{B}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

					I
LS – LOCATION 1	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016–0486	373	2013-040BP	СООК	122	37
. 010-0400			CONTRACT	NO. 6	0W87
SA-32 SHEETS		ILLINOIS FED. AI	D PROJECT		



i										
		USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. DRAIN PIPE DETAILS - LOCATION 1	F.A.P.	SECTION	COUNTY	TOTAL SHEET
	LIN ENGINEERING, LTD		CHECKED -	REVISED -	STATE OF ILLINOIS		373	2013-040BP	СООК	122 38
	Consulting Engineers Springfield, Illinois	DRAWN -		REVISED - DEPARTMENT OF TRANSPORTATION		STRUCTURE NO. 016–0486			CONTRAC	
	opringrieta, mintors	PLOT DATE = 12/05/2018 2:13:31 PM	CHECKED -	REVISED -		SHEET NO. SA-32 OF SA-32 SHEETS		ILLINOIS FED. A	ID PROJECT	



PLAN

- "		USER NAME = Lin_31	DESIGNED -	REVISED -		GENERAL PLAN & ELEVATION
¥			CHECKED -	REVISED -	STATE OF ILLINOIS	
A	Consulting Engine Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016-
픧	Springheid, hilhois	PLOT DATE = 12/05/2018 2:14:16 PM	CHECKED -	REVISED -		SHEET NO. SB-1 OF SB-34

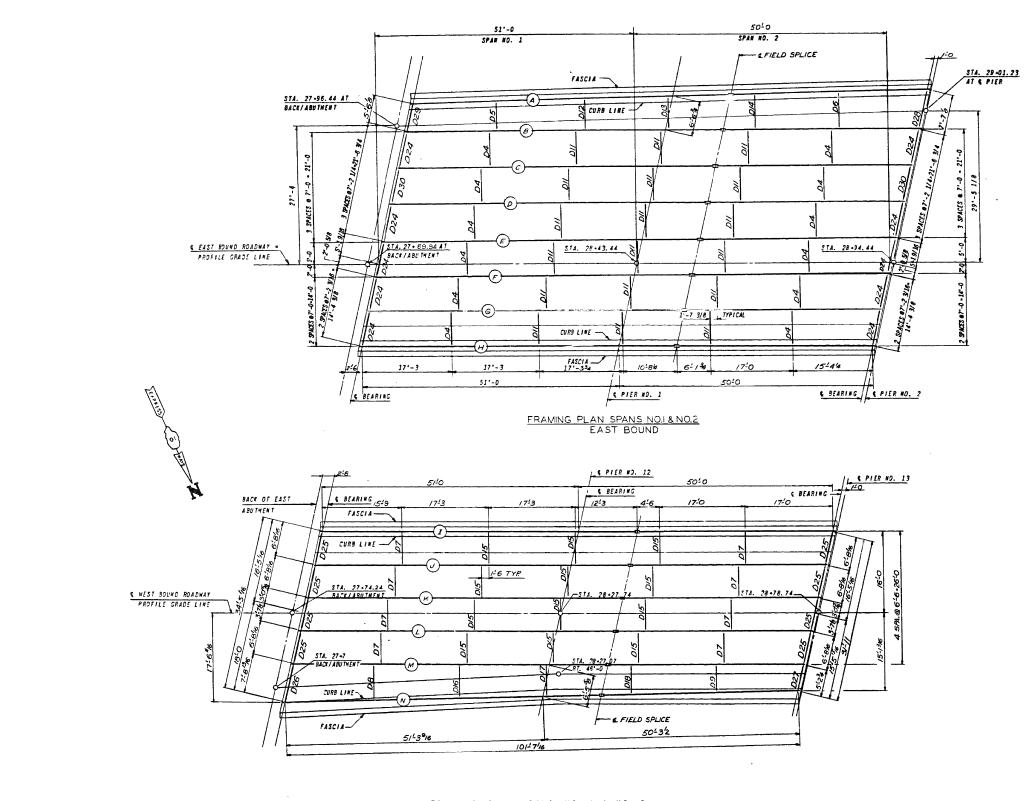
GENERAL NOTES

- 1. THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
- 2. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS. STRUCTURAL SHEETS TAKEN FROM EXISTING PLANS CONTAIN INFORMATION NOT PERTAINING TO THIS CONTRACT AND ARE FOR INFORMATION ONLY.
- 4. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SB-18 THRU SB-34 HAS BEEN PRIMED WITH AN INORGANIC ZINC RICH PRIMER UNDER A PREVIOUS CONTRACT. THESE STEEL SURFACES SHALL BE PRESSURE WASHED CLEAN AND POWER TOOL CLEANED (SSPC SP-3 MODIFIED) AS NECESSARY PRIOR TO THE APPLICATION OF THE INTERMEDIATE AND TOP COATS. THE INORGANIC ZINC RICH PRIMER ACRYLIC / ACRYLIC PAINT SYSTEM SHALL BE USED FOR FIELD PAINTING OF THESE LOCATIONS. 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, MUNSELL NO. 2.5YR 3/4.
- 5. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SB-2 THRU SB-17 SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THESE LOCATIONS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF THE EPOXY MASTIC / EPOXY MASTIC / ACRYLIC PAINT SYSTEM. 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, MUNSELL NO. 2.5YR 3/4.
- 6. A MINIMUM OF 3 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".
- 7. THE ELASTOMERIC PADS OF THE EXISTING BEARINGS SHALL BE MASKED OFF FOR PROTECTION DURING PAINTING AND REMOVED WHEN PAINTING IS FINISHED. COST INCLUDED WITH "CLEANING AND PAINTING STEEL BRIDGE NO. 2".
- 8. IF APPLICABLE, THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS DEMONSTRATING THE STRUCTURAL INTEGRITY OF THE BRIDGE IS MAINTAINED UNDER THE ADDITIONAL IMPOSED LOADS OF THE CONTAINMENT SYSTEM. SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIAL

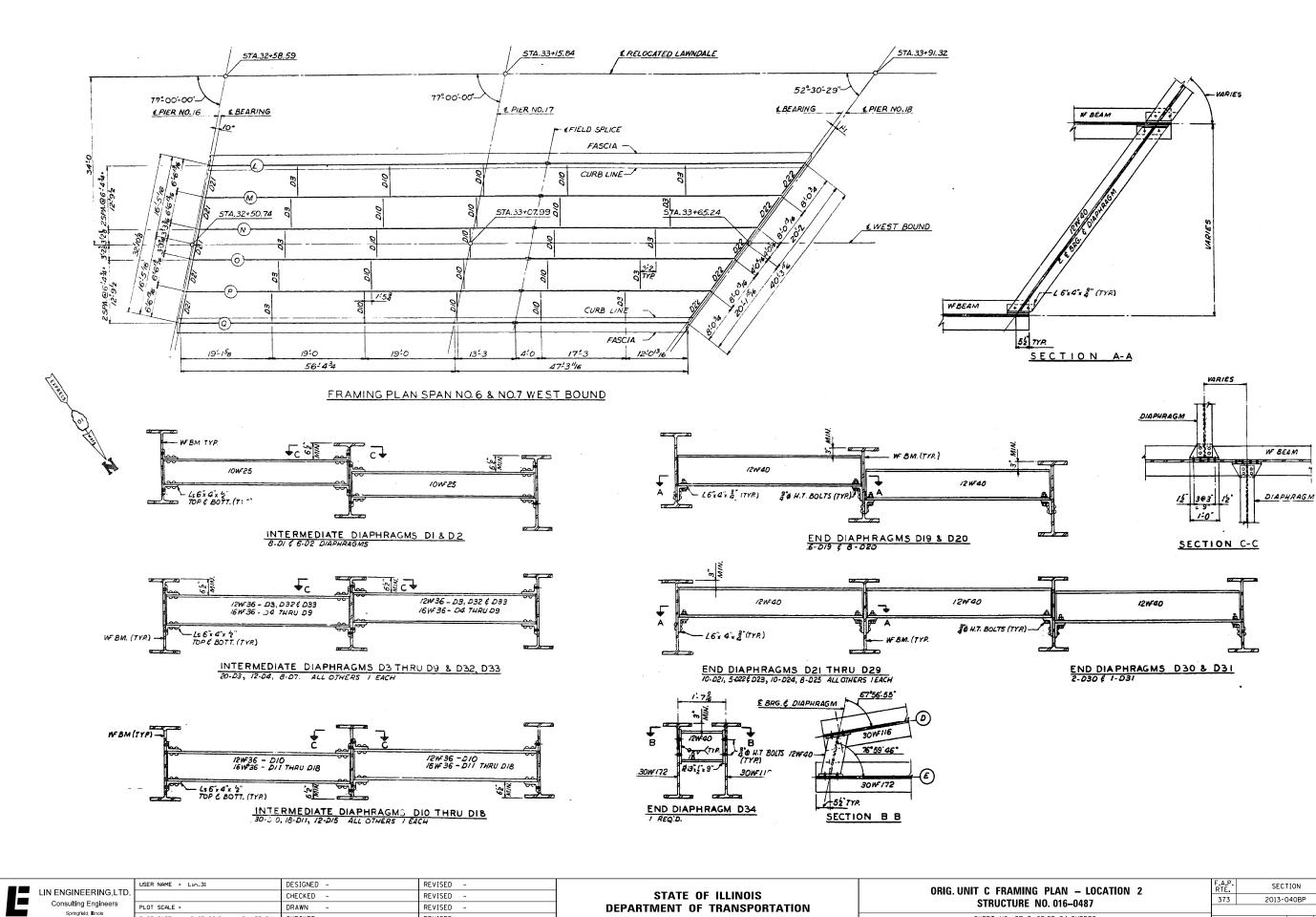
ITEM	UNIT	TOTAL
CLEANING AND PAINTING STEEL BRIDGE NO. 2	L. SUM	1
CONTAINMENT AND DISPOSAL OF LEAD PAINT	L. SUM	1
CLEANING RESIDUES NO. 2		

ON – LOCATION 2	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016-0487	373	2013-040BP	СООК	122	39
010-0407			CONTRACT	NO. 6	OW87
-34 SHEETS		ILLINOIS FED. AI	D PROJECT		



FRAMING PLAN SPANS NO. 1 & NO. 2 WEST BOUND

_		USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT A FRAMING PLAN – LOCATION 2	F.A.P. SECTION	COUNTY TOTAL SHEET
			CHECKED -	REVISED -	STATE OF ILLINOIS		373 2013-040BP	COOK 122 40
	Consulting Engineers	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0487		CONTRACT NO. 60W87
	Springfield, Illinois PLOT DATE = 12/05/	PLOT DATE = 12/05/2018 2:14:22 PM	CHECKED -	REVISED -		SHEET NO. SB-2 OF SB-34 SHEETS	ILLINOIS FED. A	AID PROJECT



DEPARTMENT OF TRANSPORTATION

PLOT SCALE =

Springfield, Illinois

DRAWN

PLOT DATE = 12/05/2018 2:14:55 PM CHECKED -

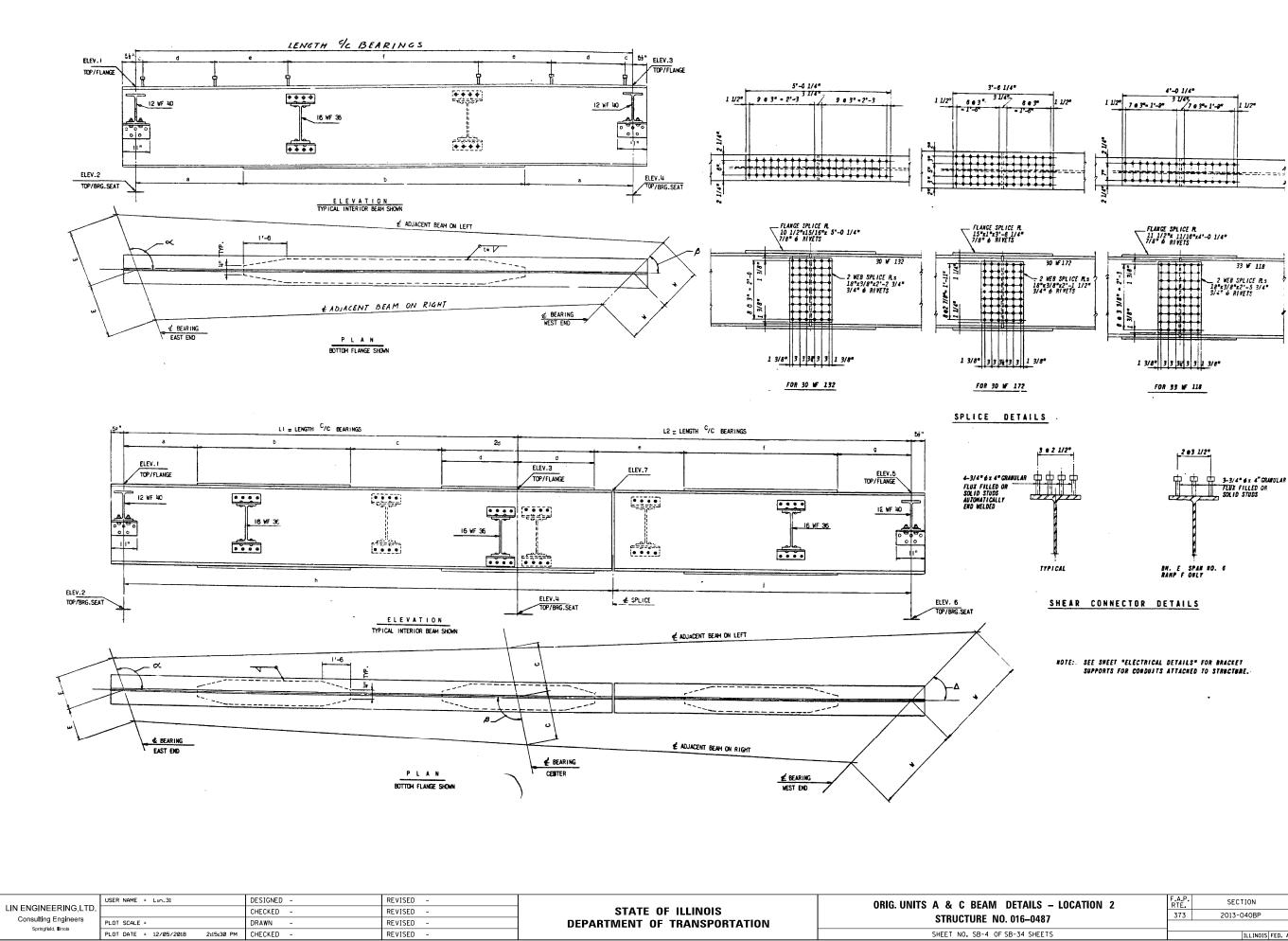
REVISED

REVISED

STRUCTURE NO. SHEET NO. SB-3 OF SB

END	DIAPHRA	GMS	D	30	8	D
2 03	0 E 1.031		_			

LAN – LOCATION 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
. 016–0487	373	2013-040BP	СООК	122	41			
. 010-0407			CONTRACT	NO. 6	0W87			
SB-34 SHEETS	ILLINOIS FED. AID PROJECT							



L

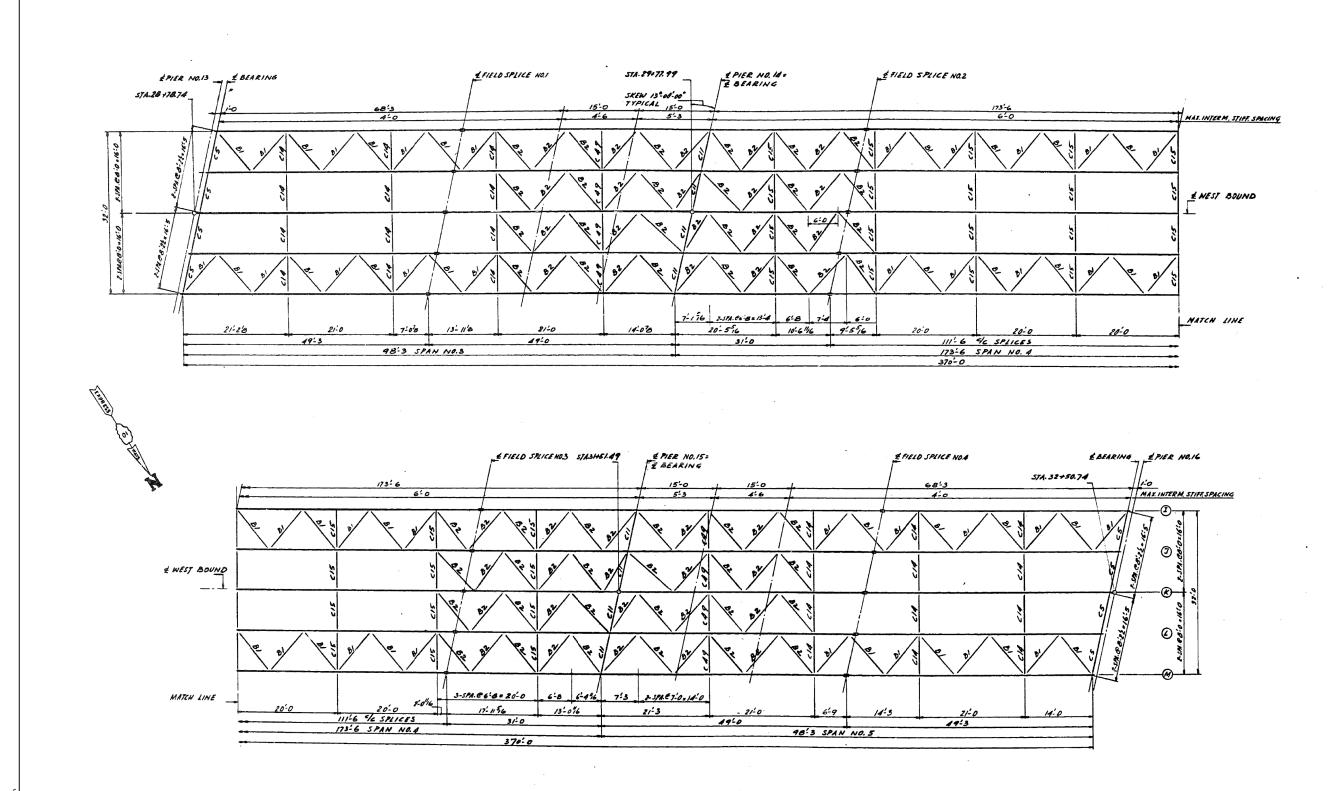
DETAILS – LOCATION 2	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
016-0487	373	2013-040BP	СООК	122	42			
010-0407	CONTRACT NO. 60W87							
B-34 SHEETS		ILLINOIS FED. AI	D PROJECT					

C 00 623.490 619.465 do 623.693 619.425 do do <t< th=""><th></th><th></th><th></th><th>E</th><th>AST E</th><th>ND DA</th><th>TA</th><th>1</th><th></th><th>WEST</th><th>END</th><th>DATA</th><th></th><th></th><th>•</th><th></th><th></th><th></th><th></th><th></th><th></th><th>BEA</th><th>м</th><th>DATA</th><th>4</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th><th></th><th></th></t<>				E	AST E	ND DA	TA	1		WEST	END	DATA			•							BEA	м	DATA	4								1			
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No. No. No. No. No.	SFAN	0		-	,	1 2			w						C/C	F				<u> </u>	•				T									BEAM	ין	REMARKS
No. 1 0		 		E																								PE SHIM	PLATE	BRG. TYPE						
No. No. <td></td> <td>A</td> <td></td> <td>7'-3</td> <td>623.217</td> <td></td> <td></td> <td></td> <td>7*-3</td> <td></td> <td></td> <td></td> <td>0/2025*</td> <td>30 WF 116</td> <td>58'-6 13</td> <td>9/16 9</td> <td>1/Z"x7/8"</td> <td>5/16"</td> <td>12'-5</td> <td>9", 33'</td> <td>-0 13/16 *</td> <td>3 3/8"</td> <td>106</td> <td>5 12</td> <td>• 1'-0"</td> <td>22 • 1'-6"</td> <td>E 3</td> <td></td> <td>-</td> <td>F 5</td> <td>11/10</td> <td>5"</td> <td>T</td> <td>A</td> <td></td> <td></td>		A		7'-3	623.217				7*-3				0/2025*	30 WF 116	58'-6 13	9/16 9	1/Z"x7/8"	5/16"	12'-5	9", 33'	-0 13/16 *	3 3/8"	106	5 12	• 1'-0"	22 • 1'-6"	E 3		-	F 5	11/10	5"	T	A		
No. C		6	. –		623.595	619.9	960	do		623.17	75 615	9.550	do	do	do		đo	do	8'-5	9" 41'	-0 13/16 "	3 3/8"	20 • 6	6" 12	• 9*	20 0 1'-0"	[3		-	F 5	-			•		
A I	2	6			623.965	620.3	329	do		623.6	38 620	0.013	do	30 WF 116	do	9	1/2x7/8"	do	8'-9	9. 41'	-0 13/16 *	3 3/8"	20 0 6	5" 12	0.9"	20 . 1'-0"										
I I	MA			7*-3		620.6	677 67	*-56'-55"	7-3	624.0	91 620	. 453	57 - 56' - 55'	30 HE 124	58'-6 1	3/16" 0	1/2+1=	5/169																<u> </u>	-	
No. No. <td>~ 3</td> <td></td> <td></td> <td>-7 9/16</td> <td></td> <td></td> <td></td> <td></td> <td>11'-1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5/10</td> <td>10 -2</td> <td></td> <td>-0 13/10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>F 5</td> <td>-</td> <td></td> <td></td> <td>D</td> <td>1</td> <td></td>	~ 3			-7 9/16					11'-1									5/10	10 -2		-0 13/10								-	F 5	-			D	1	
1 1		<u> </u>			624.287	620.6	677 76	5-59-46-		024.2	620	. 600	6	30 WF 108	55'-8 9/	/16*		-			-	4 1/4"			• 1'-0 •	18 • 1'-6	E 3		-	F 5	-			£	3 STUL	DS EACH ROW ONLY
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1 1		<u> </u>						1-54-101		622 1	18 61	8 483			+																					
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No. C m Diractic Di	۳	8		40	623.070	619	445	do	40	622.5	90 61	8.355	do	do	do		do	20	10'-8	8 41.	-0 11/16"	2 5/8"	20 0 6	5" 12	• 9*	12 @ 1'-0 *	F 5		-	E 3	-			8		
B V	& 2	C	-		823.490	619.4	865	đo		623.0	63 61	9.428	do	do	do		do	do	do		do	do	do		đo	do	F 5		-		-					
No.00 NO.00 <th< td=""><td></td><td>D</td><td></td><td></td><td>823.901</td><td>620.4</td><td>276</td><td>do</td><td></td><td>623.5</td><td>38 61</td><td>9.902</td><td>do</td><td>do</td><td>do</td><td></td><td>do</td><td>do</td><td>10*-6</td><td>8 41'</td><td>-0 11/16 *</td><td>2 5/8"</td><td>20 0 6</td><td>5" 12</td><td>0.9"</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td><td></td><td></td></th<>		D			823.901	620.4	276	do		623.5	38 61	9.902	do	do	do		do	do	10*-6	8 41'	-0 11/16 *	2 5/8"	20 0 6	5" 12	0.9"									<u> </u>		
N / N N / N <th< td=""><td>_ 8</td><td>E</td><td></td><td>6'-6</td><td></td><td>620.1</td><td>600 61</td><td>1-54-10"</td><td>6*-6</td><td>623.9</td><td>93 62</td><td>0.258 6</td><td>1*-54*-10*</td><td>30 WF 116</td><td>62'-4 1</td><td>1/16" 9</td><td>1/2+7/8*</td><td>5/16*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>D</td><td>_</td><td></td></th<>	_ 8	E		6'-6		620.1	600 61	1-54-10"	6*-6	623.9	93 62	0.258 6	1*-54*-10*	30 WF 116	62'-4 1	1/16" 9	1/2+7/8*	5/16*									_		-					D	_	
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PA 14 PA 1 C Extrement PA 14 C PA 14 PA 14 PA 14 PA 14 PA 14		r								<u></u>	r	<u> </u>		<u> </u>																						
No. 10 No. 10<	I	Σ	LAS				L				WE				L	-								M	<u>DAT</u>	1									5	
No. 10 No. 10<	SPAN		~	EPEAW						ANGLE				1 1		ENGTH	1	ļ	······																¥ I	REMARKS
No. 0 Port of Port Port Port Port Port Port Port Port			٤	<u> </u>			L C			للر								SIZE	a	0	¢	đ	6	f	1	n	1	ELEV. 7 1	BRG. TYPE	SHIMPLATE	BRG TYPE	SHIMPLATE	BRG. TYPE	SHIMPLATE		
No. 10 No. 10<	Į		5'-8 1/#		622.039	75•-51*-13*	6'-6 2/4	625.703	621.840	75*-51*-13*	7-7 1/0	625.498	621.625	75°-51°-15	33 WF 118	51"-2 15/1	6 50'-2 7/8	-	51*-2 15/15	-	-	-	-	-	50*-2 7/8	62'-9 9/16	38'-8 1/4"	625.656	E 2	- 1	F4	-	E 2	- 1	1	
P P	~	8		626.024	622.151	77°-00'-00 "	7-2 1/4	625.837	621.932	77°-00'-00"		625.653	621.779	770000-	do	51'-0"	50'-0"	9" x 3/8"	46'-9"	-	-	4'-3 *		_	45'-9	62'-6"	38"-6"	625.794	E 2		F 1	-				
No. 0		c		626.170	622.297			625.983	622.078	do	1			do	do	do		do		-	1									┢╸╴╴┥		<u> </u>				
$ \begin{bmatrix} 1 & - 1$		D	đo	626.316	822.413	do	do	626.129	622.224	do	do						+	+							40								Ε2	-	<i>c</i>	
No method No method <t< td=""><td>8 </td><td>H</td><td>7°-2 1/4</td><td></td><td></td><td></td><td>7'-2 1/4</td><td></td><td></td><td></td><td>7'-2 1/4</td><td></td><td></td><td></td><td>40</td><td>40</td><td>- 40</td><td>d0</td><td><u>do</u></td><td>-</td><td>ļ</td><td>do</td><td></td><td>-</td><td>do</td><td>do</td><td>do</td><td>626.086</td><td>E 2</td><td><u> </u></td><td>F 1</td><td>-</td><td>E 2</td><td>•</td><td>D</td><td></td></t<>	8	H	7°-2 1/4				7'-2 1/4				7'-2 1/4				40	40	- 40	d0	<u>do</u>	-	ļ	do		-	do	do	do	626.086	E 2	<u> </u>	F 1	-	E 2	•	D	
$ \begin{array}{c} \hline 6 \\ \hline 6 \\ \hline 7 \\ 7 \\$	ts o	⊢́-Г	7'-2 3/16			do		6 626.205		<i>ao</i>	7'-2 3/16	626.021	622.147	do	do	do	do	do	do .	-	-	do	-	-	do	do	do	626.162	E 2	I - T	F 1	-	E 2	- 1	E	
$ \frac{1}{2} 1$		ഥ			622.519	do		626.241	622.300	do	J	626.057	622.147	do	đo	do	do	do	do	-	_	do			do	do	đo	626.198	E 2	7/16*	F 1	11/16*				
1 1	A de	6		828.364	622.456	do	71 9 9/14	626.177	622.237	đo		625.993	622.084	do	do	do	do	9" x 3/8"	46'-0"	_		4'-3"			45'-9	do					· · · · · · · · · · · · · · · · · · ·		+			
No No No No No <td>•</td> <td>"</td> <td>/*-2 3/10</td> <td>626.280</td> <td>622. 393</td> <td>77°-00°-00"</td> <td></td> <td>626.092</td> <td>622.174</td> <td>77-00-00</td> <td>7 -2 3/16</td> <td></td> <td></td> <td>77-00-00*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>++</td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td>	•	"	/*-2 3/10	626.280	622. 393	77°-00°-00"		626.092	622.174	77-00-00	7 -2 3/16			77-00-00*							<u> </u>									++			+			
											4								51'-0-					-	50"-0"	02'-0"	38 -0-	626.030	12	1/8-	F 4	3/16"	E 2	3/16"	"	
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0 0			AT 0 1/14	626.311	622. 437	77°-00'-00'	e 1/1/	626.123	822.2.60	77-00-00			622.065	77-00-00-	33 WF 118	51 -0 -	50"-0"	-	51"-0"	-	-	-	-	-	50'-0"	62"-6"	38*-6*	626.081	E 2	-	F 4	-	E 2	-	1	
0 0	g ×	1		626.401	622. 528				622.350	do	6'-8 1/16	626.030	622.156	do	do	do	do	-	do	-	-	-	-	-	60	do	do	626 171	5.2	++	5.4	<u></u>	5.2			
1 0	1,800			626. 472	622.598	do	do	628.284	822. 421	do	do	and the second data		<u> </u>				+·				·			 	<u>+</u>				++						
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0 1 0.1.0 01.30 02.4.0 75.37 27.40 02.9.37 02.9.47 02.9.37 02.9.47 02.9.37 02.9.47 02.9.37	ANA	<u>––</u> –	7-8 13/16	626.413	622.528	77°-00°-00		626.225	622.338	77*-00'-00	·	626.041	622.155	77*-00*-00*	do	51 -0	50"-0"	-	51'-0"	-	-	-	-	-	50'-0"	62"-6"	38'-6"	626.183	E 2	1/8"	F 4	3/16"	E 2	1/8"	#	
N N	8			626. 339	622.485	75 <u>.</u> °-37°-33°	0-0 00	628.150	622.285	75•-37•-33	5-2 3/4	625.965	622.092	75-37-33	33 WF 118	51'-3 9/1	\$ 50'-3 1/2	- 1	51'-3 9/16	-	-	-	-	-	50'-3 1/2	62"-10 3/8"						<u> </u>				··· · · · · · · ·
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0 0	ġ	H	6'-6 13/1		Concernance of the local division of the loc		6'-6 13/	/16		+	8'-4 3/8	624.058	620.430	49*-53*-25*	30 ₩F 172	56'-4 3/4	65'-7 7/16	<u> </u>	56"-4 3/4"	-	-	-	-	-	65' -7 7/16	70°-5 5/8	51'-79/16	624. 248	E 4	5/8"	F 2	-	E 4	1/8*	1	
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$ \frac{1}{2} = \frac{1}{2} + 1$	ත් ය		The second s	624.864	620.961	do	J	824.457	620.807	do		624.244	do	do	30 ¥ 132	đo	57'-9 1/2	9"x3/8"	15'-10 3/4	13'-6"	21'-0"	6'-0"	21-0 1/24	12'-6"	1				<u></u>	++		<u> </u>				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	IS Ø			824.870	620.861	đo	-	624.462	820.807	do		624.284	do	do	do		+				1					40			£ 3			+			.	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	EA IN	11		624.611	620. 898	đo	10-013/	624 404	820 744	da	8 -4 7/16			<u> </u>				+		ļ	+				49'-10 1/2	do	39"-10 5/8	624, 410	E 3	++		ļ			<u></u>	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	8		6'-6 13/1	8			6'-6 13/				8'-4 3/8										+		-	-	49'-11 9/16	do	35°-11 11/16	624.352	E 3	5/8"	F 5	1/8"	E 3	1/4*	1	
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H 624.653 621.609 do 624.453 621.009 do 624.453 621.003/6 624.453 621.009/6 624.653 621.009/6 624.653 621.009/6 624.653 621.009/6 624.657 621.009/6 <t< td=""><td> ei</td><td>ĽЦ</td><td>6'-6 13/1</td><td>624.583</td><td>620.848</td><td>77°-00'-00"</td><td>6'-6 12/</td><td>/16 824.356</td><td>620.709</td><td>770000</td><td>1</td><td>624.11</td><td>620. 503</td><td>52 3029</td><td>30 ₩ 172</td><td>56'-4 3/4</td><td>64'-5 9/10</td><td>5 -</td><td>56'-4 3/4"</td><td>-</td><td>1</td><td>- 1</td><td></td><td>-</td><td>64'-5 0/14</td><td>70°-4 5/P</td><td>50'-5 11/14</td><td>624. 304</td><td>E 4</td><td></td><td>F 2</td><td>1 -</td><td>E4</td><td>- 1</td><td>$\frac{1}{1}$</td><td></td></t<>	 ei	ĽЦ	6'-6 13/1	624.583	620.848	77°-00'-00"	6'-6 12/	/16 824.356	620.709	770000	1	624.11	620. 503	52 3029	30 ₩ 172	56'-4 3/4	64'-5 9/10	5 -	56'-4 3/4"	-	1	- 1		-	64'-5 0/14	70°-4 5/P	50'-5 11/14	624. 304	E 4		F 2	1 -	E4	- 1	$\frac{1}{1}$	
0 6-4-7/8 624.728 621.029 do 6 ² -6-7/8 627.52 620.62 do 60 57-7 516 627.52 13-6 11/16* F3 11/16* F3 - F3 11/16* F3 11/16* F3 11/16* F3 11/16* F3 <	22			624.653	621.009	đo		624.445	620.799	do		624.22	_							<u> </u>	+	<u>├</u> ────┤								++		+		•		
0 6-4-7/8 624.728 621.029 do 6 ² -6-7/8 627.52 620.62 do 60 57-7 516 627.52 13-6 11/16* F3 11/16* F3 - F3 11/16* F3 11/16* F3 11/16* F3 11/16* F3 <	8		The second s	624.722	821.009	do		/16 624 515	_		8'-0 13/1	6								1 1 1 1 1			-	-						++		ļ				
0 0		0					6'-6 7/8				do									13'-6"	21'-0"		21'-10 3/16	13"-6		do	43'-75/16	624.463	E 3	11/16"	F 3		E 3		"	
0 0	A ME	_	8'-6 13/1	ſ			6'-6 13/	/16			8'-0 13/1	· ····································		do	do	do	54'-3	9"x3/8"	oz"-4 3/4"	-	-	4'-0	-	-	50*-2	do	40'-2 1/8	624.468	E 3	11/16"	F 3	1/16*	E 3	3/26" .	0	-
V 624.389 620.733 77-00'-00 624.209 620.500 52'-30'-29' 30 # 132 55'-4 3/4 #7'-3 11/16 -		Η	6°-6 13/1	61			6'-6 12/	/16 524.461	620.801	do	8-0 214	624.27							56'-4 3/4"	-		-	- 1	-	50"-8 13/10	5 do	36'-8 15/16	624, 409	E 3	- 1	F 5	1/8"	[]	1/2"	,	
	с,	1-4		624.590	620. 830	77*-00*-00*	1	624.383	620.733	770000	1	624.20	820.500	52-30-29-	30 ¥F 132	55'-4 34	47'-3 11/1	6 -	56°-4 3/4"	•	-	<u> </u>			+											
				1				_			1	-		1 1			+	+				<u>├</u> ───			f'	10 3/8	10 -2 13/10	024.921	.,	++	<u>```</u>	<u>+</u>	+**	3/10-	<u> </u>	
									* 1					<u> </u>	_	L		J		L	<u> </u>				1	I				.L		L	1			

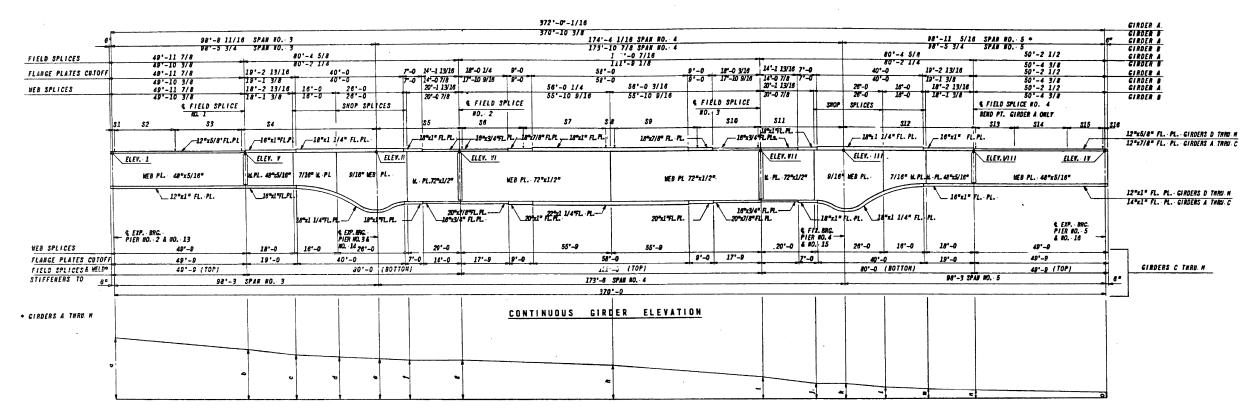
STRUCTURAL STEEL SPANS NO. 1, NO. 2, NO. 6 & NO. 7 EAST BOUND Spans NO. 1, NO. 2, NO. 6 & NO. 7 WEST BOUND, SPANS NO. 6 & NO. 7 RAMP F

	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNITS A & C BEAM DATA – LOCATION 2	F.A.P.	SECTION	COUNTY TOTAL SHEET
		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0487	373	2013-040BP	СООК 122 43
Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60W87
PLOT	PLOT DATE = 12/05/2018 2:16:04 PM	CHECKED -	REVISED -		SHEET NO. SB-5 OF SB-34 SHEETS		ILLINOIS FED.	AID PROJECT

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	USER NAME = Lin_31	DESIGNED -	REVISED -			F.A.P.	SECTION	COUNTY	TOTAL SHEET
		CHECKED -	REVISED -	STATE OF ILLINOIS		RTE.	2013-040BP	СООК	SHEETS NO.
Consulting Engineers Springfield, Illinois	PLOT SCALE = DRAWN - REVISED -		DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0487				T NO. 60W87	
Opingrisia, minora	PLOT DATE = 12/05/2018 2:16:35 PM	12/05/2018 2:16:35 PM CHECKED - REVISED -			SHEET NO. SB-6 OF SB-34 SHEETS		ILLINOIS FED. A	ID PROJECT	



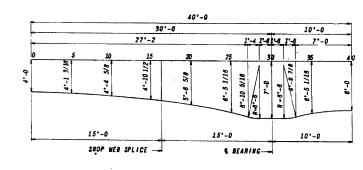
BLOCKING DIAGRAM

					CONTINU	OUS GI	RDER B	LOCKING	DI AGR	AM SP	AN NO.	3 THE	U NO.	5 EAS	T BOUND) & WE	ST BOU	JND					
GIRDER		0 F	W E .	8 E L	E V A. T	10	* A.T		T					BL		IG A	t						
GINVEN	1	н	Ш	17	V	٧I	¥11	VIII	e	ð	c	đ	•	1	ł	h	1	J.	k	1			
A.	5. 385	4. 983	3. 949	3.118	5, 191	4. 967	4. 332	3. 550	2'-3 3/16	2'-0 7/8	1'-117/16	1-10 5/8	1'-10 3/8	1'-10 3/16	1'-10 3/16	1'-9 7/16	1'-2 9/16	0'-11 3/16	0'-10	0'-8 3/8	0'-6 13/16	0'-5 3/16	0
8	5, 497	5, 116	4. 225	3. 658	5. 304	5.085	4. 523	3.913	140 1/16	1'-7 3/4	1'-8 5/8	1'-5 13/16	1'-5 1/2	1'-5 1/4	1'-5 1/8	1'-3 11/16	0-10 3/8	0"-7 7/8	0'-6 13/1	80"-5 3/8	0'-4 1/4	0'-3 //18	٥
C	5. 609	5.247	4. 493	4.131	5, 428	5.220	4.735	4.230	1'-5 3/4	1'-3 9/16	1'-2 3/16	1'-1 9/16	1'-1 3/8	1'-1 1/4	1'-1 1/16	1'-0	0'-7 1/4	0'-5 5/16	0'-4 3/6	0'-3 1/8	0'-2 5/18	p1 3/16	0
D	5,771	5. 409	4.171	4. 409	5. 597	5, 367	4.966	4. 607	1'-4 5/16	1'-2 1/4	1'-1 3/16	1-0 11/16	1'-0	0-11 1/2	0'-11 1/2	0-10 9/16	0-6 11/15	0'-4 15/16	0-4 5/10	0'-3 7/16	0'-2 15/16	0'-2 3/8	4
E	5.885	5. 523	4. 885	4. 523	5.711	5. 481	5.080	4.721	do	do	đo	đo	do	do	do	do	do	do	do	đo	do	đo	60
F	5.959	5. 597	4, 959	4. 597	5.785	5. 555	5.154	4.795	do	đo	do	do	đo	do	do	đo	do	do	do	đo	đo	do	dc
6	5.888	5. 526	4. 888	4. 528	5.714	5. 484	5.083	4.724	do	do	do	đo	do	do	do	do	do	đo	đ 0	, d0	đo	đo	đ
N	5. 797	5, 435	4.797	4. 435	5. 623	5. 393	4. 892	4. 633	do	do	do	do	do	do	do	do	do	do	6 0	đo	do	do	đi
1	5.827	5, 466	4. 827	4. 486	5, 854	5,424	5.023	4. 664	đo	do	do	do	đo	do	do	đo	đo	do	do	đo	do	đo	đ
J	5.934	5, 573	4. 934	4.753	5.041	5, 711	5. 310	4.951	do	do	do	do	do	đo	do	đo	to	do	do	do	đo	do	đ
K	6.021	5, 659	5.021	4.659	5.847	5. 617	5,218	4.857	do	do	do	do	do	do	do	đo	do	do	đo	do	đo	do	d
1	5. 948	5. 586	4.948	4.586	5.774	5. 544	5,143	4.784	đo	do	do	do	do	do	do	do	do	đo	do	do	do	đo	d
M	5, 855	5, 493	4.855	4.493	5, 681	5. 451	5.050	4. 691	1'-4. 5/18	1-2 1/4	1 -1 3/1	1-0 11/1	1'-0	0'-11 1/2	0-11 1/2	0-10 9/10	0-8 11/16	0'-4 15/16	0-4 5/1	0-3 7/10	0-2 15/16	0'-2 3/8	. 6

• ADD 620 TO ALL ELEVATIONS

						SHEAR	CONNI	ECTOR	SPACIN	IGS						
GIRDER	S1	\$2	53	54	\$5	58	\$ 7	58	59	\$10	S 11	S12	\$13	\$14	S15	516
A.	- 0'-3	28 • 0'-9 21'-0	21 • 1'-3 26'-3	215 11/19 -		28 e 0°11 25°8	-	34 e 1'-8 51'-0	-	34 00°-11 31°-2	- 33°-3 1/16			12 e 1'-0 12'-0	29 o 0'-8 19'-4	
8	 do	đo	đo	- 50°-11 3/4	- 33°-0 1/2	đo	đo	đo	do	¢	- 33-0 3/8	इ.न. ३७	¢	đo	28 a V'-8 18'-8	- 0°-53/8
c	- do	28 e 0'-9 21'-0	21 • 1'-3 25'-3	50°-0	- 32°-10	28 e 7'-11 25'-8	:	-1 6 -0	-	34 0 0°-11 31°-2	32"-10	50-0	13 e 1'-3 16'-3	12 e 1'-0 12'-0	28 e 0'-8 18'-8	0°-7
D thru N	- 0"-3	33 • 0'-9 24'-9	18 e 1'-3 22'-8	- 57-9	- 33°-0	48 e 9" = 36"-0	10 e 1'-6 = 15'-0		10 e 1'-6 = 15 <u>'</u> 0	48 e 9" =36"-0	337-0	- 50'-9	18 o 1'-3 22'-6	33 e 0'-9 '24'-9	-	- 0'-3

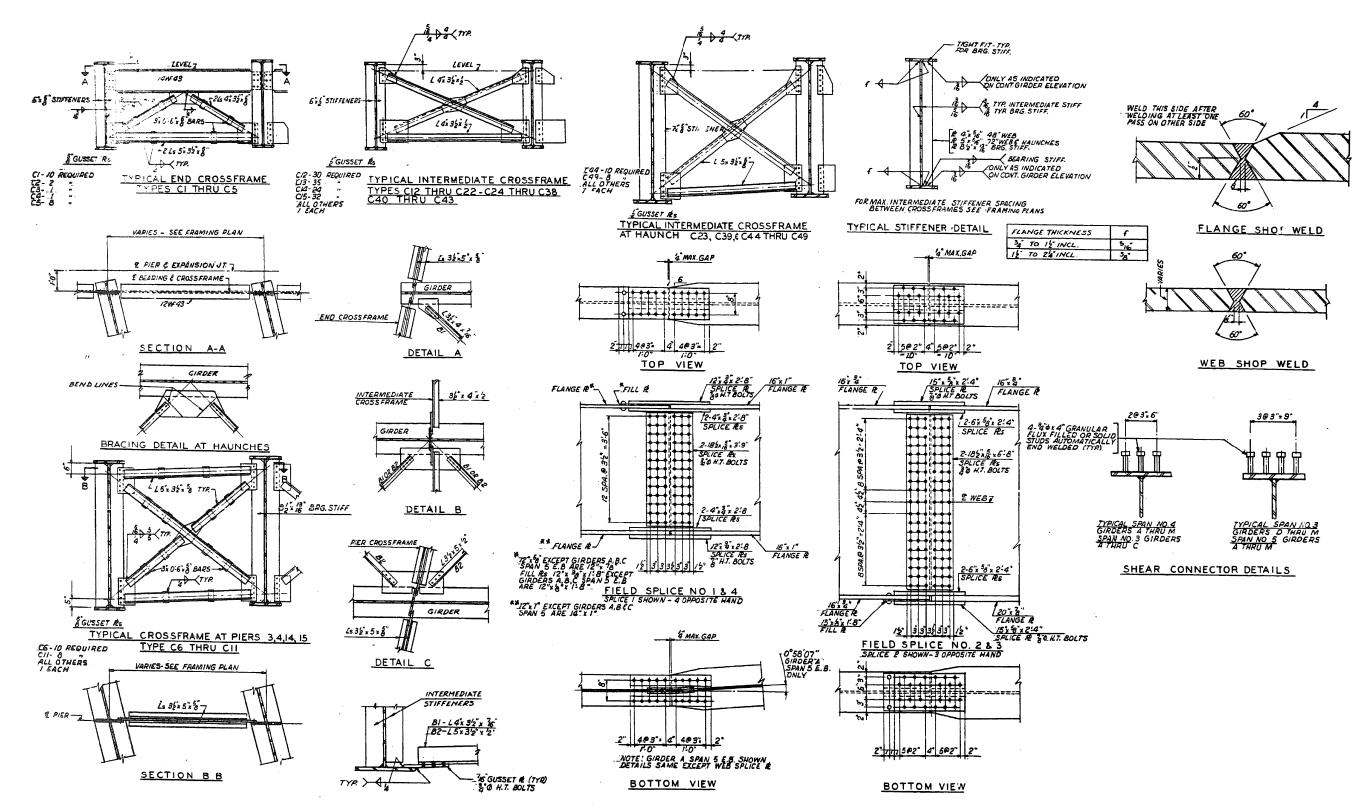
	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT B GIRDER ELEVATION – LOCATION 2	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
	J.	CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373	2013-040BP	СООК	122	45
Springfield, Illinois	PLOT SCALE = PLOT DATE = 12/05/2018 2:17:29 PM	DRAWN – CHECKED –	REVISED – REVISED –	DEPARTMENT OF TRANSPORTATION	SHEET NO. SB-7 OF SB-34 SHEETS	_	ILLINOIS FED. AI	CONTRACT	NO. 60)W87



HAUNCH DETAIL

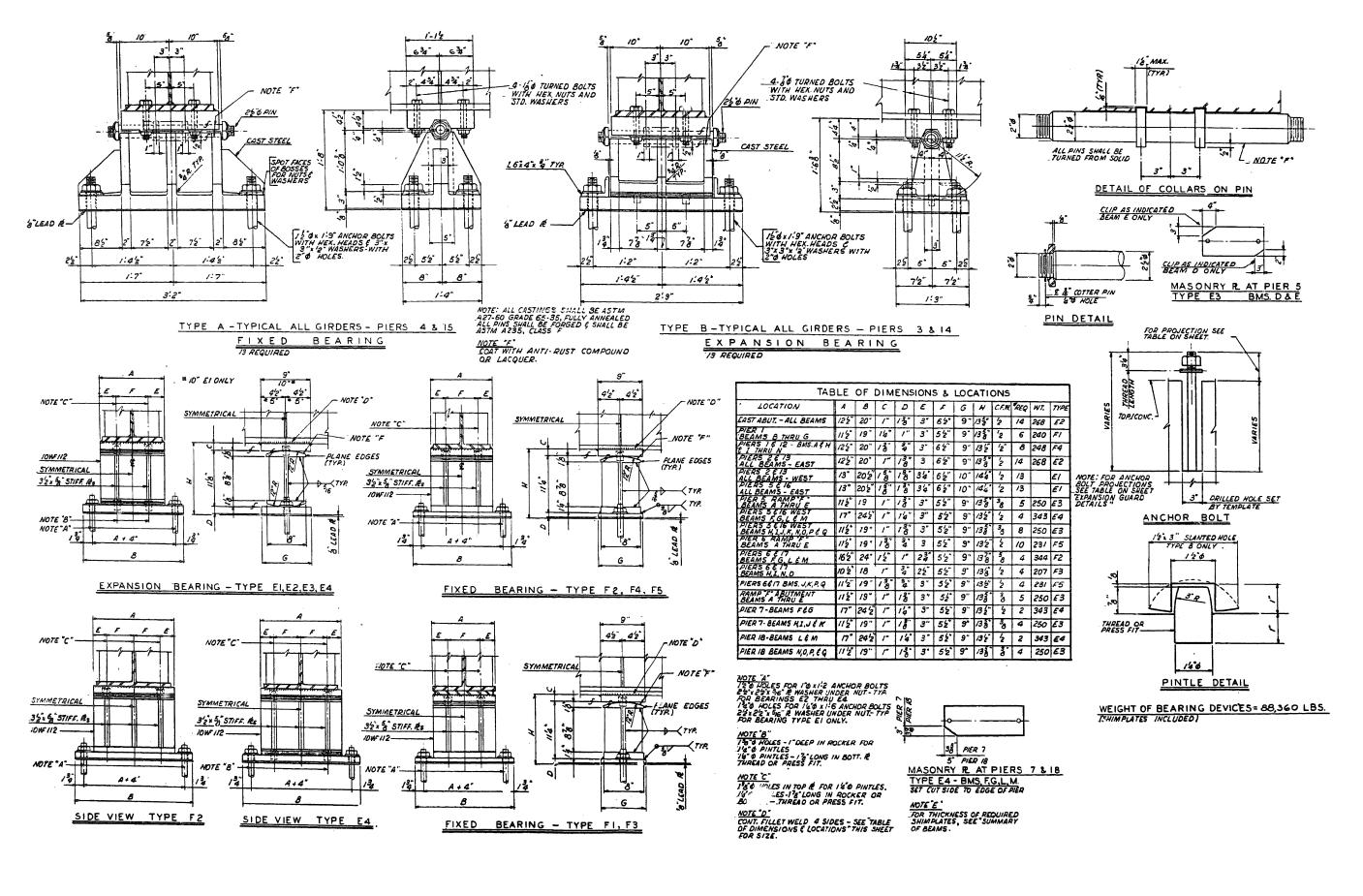
2

STRUCTURAL STEEL SPAN NO. 3 THRU NO. 5 L	AST BOUND	UND WEST BOUN
WEIGHT OF STUDS	7, 499 62, 114	L85.
WEIGHT OF BEARING DEVICES WEIGHT OF EXPANSION GUARDS	21, 734	LBS.
FRANING STEEL	1, 380, 470	
FURNISHING AND ERECTING STRUCTURAL STEEL	1, 471. 817	LBS.

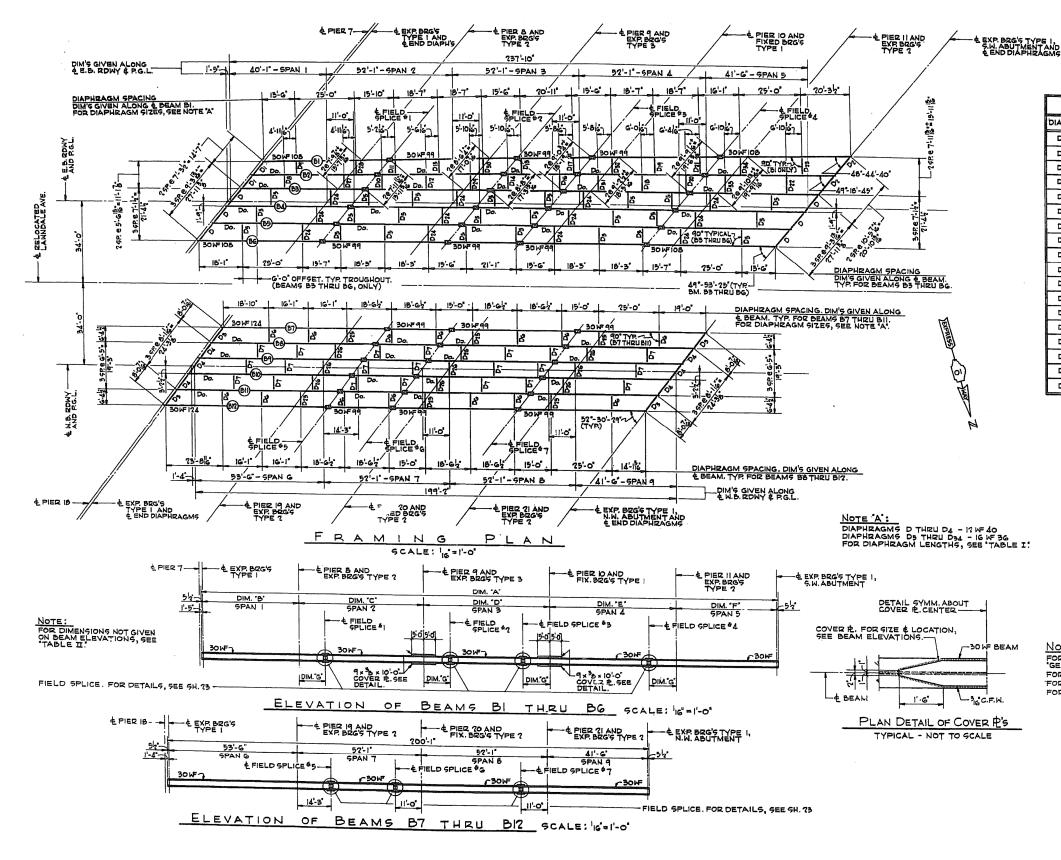


WELD DETAIL

		USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT B STEEL DETAILS – LOCATION 2	F.A.P.	SECTION	COUNTY	TOTAL SHEET
AME	LIN ENGINEERING,LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373	2013-040BP	СООК	122 46
ž ILE	Springfield, Illinois	PLOT SCALE = PLOT DATE = 12/05/2018 2:18:03 PM	DRAWN - CHECKED -	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. SB-8 OF SB-34 SHEETS		ILLINDIS FED. A		T NO. 60W87
2	Springheid, minois	PLOT DATE = 12/05/2018 2:18:03 PM	CHECKED -	REVISED -		SHEET NO. SB-8 OF SB-34 SHEETS		ILLINOIS FED. A	D PROJECT	_



	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT B BEARING DETAILS – LOCATION 2	F.A.P. RTF	SECTION	COUNTY TOTAL SHEET
Consulting Engineers		CHECKED -	REVISED -	STATE OF ILLINOIS		373	2013-040BP	СООК 122 47
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0487			CONTRACT NO. 60W87
Springinard, minors	PLOT DATE = 12/05/2018 2:18:37 PM	CHECKED -	REVISED -		SHEET NO. SB-9 OF SB-34 SHEETS		ILLINOIS FED.	AID PROJECT



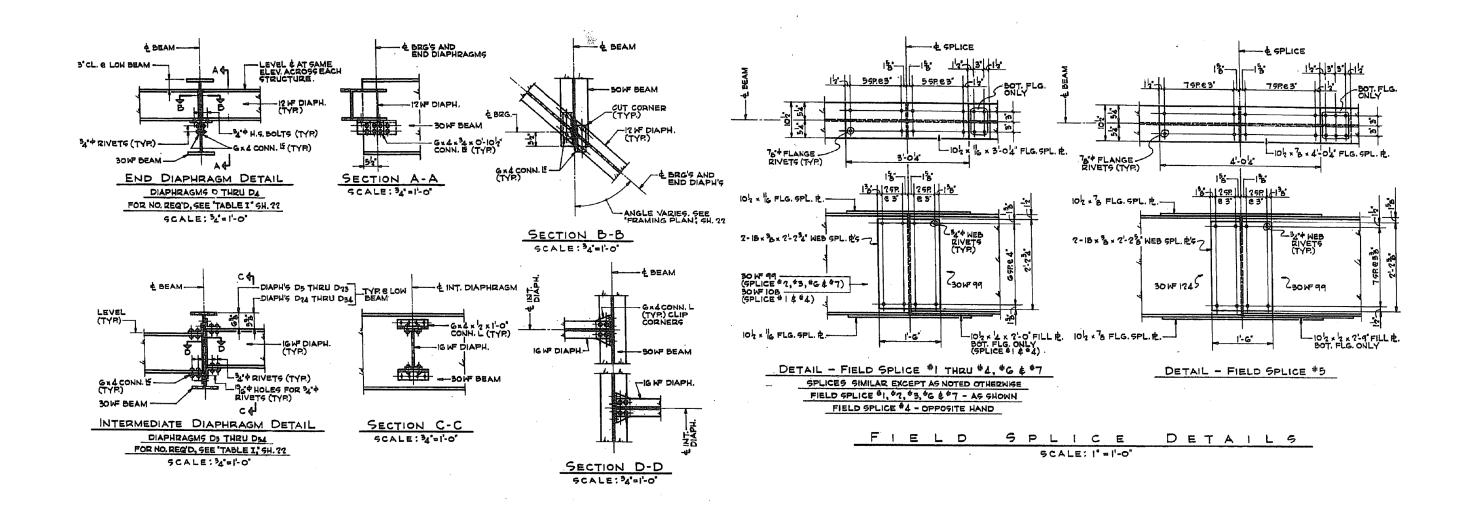
	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT D FRAMING PLAN – LOCATION 2	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
Consulting Engineers		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373	2013-040BP	СООК	122	48
Springfield, Illinois	PLOT SCALE = PLOT DATE = 12/05/2018 2:19:09 PM	DRAWN – CHECKED –	REVISED – REVISED –	DEPARTMENT OF TRANSPORTATION	SHEET NO. SB-10 OF SB-34 SHEETS				NO. 6	JW87

			BLE	I	- 	
DIAPH.	LENGTH	NO.REO/D		DIAPH.	LENGTH	NO.REQ'D
D	9-313	G		Dig	7-23	1
D1 .	7'-3'2"	· 2		Dia	7'-15"	1
D2	10'-5%	2		D20	7'-4%	1
D3	8-0%	4		D21	7-313	1
D4	8'-1 16	G		D22	7'92	1
Dş	7-15	24		D23	7'-84	1
DG	6-42	14		D24	7'-12"	12
דס	6'-5'	21		D25	6-42	6
Da	5'-8 16	1		D76	6-5	9
Dq	5-78	1		D27	5-11%	1
Dio	6-17	1		D28	5-1015	1
DII	6-05	ł		D29	6-58	1
Drz	6-316	I		D30	6'-54	1
DIB	6'-3"	1		D31	7'-016	1
DI4	6-73	1		D32	6-117	1
Dis	6-76	l		D33	7-62	1
Dig	· 6'-105'	1		D34	7'-5%	1
DI7	6-94	I				1

* * DIMENSION GIVEN IS & TO & OF BEAMS.

T	ABL	ΕĪ	I
DIM.	ы	B2	B5 THRU BG
•A.	242-102	240-95	238'-9"
•в	40'-94"	40'-5 ¹ 8"	40'-1"
່ວ'	52'-117"	52-63	52'-1'
'D'	52-112	57'-63'	52'-1"
"E"	52-117	52'-6 ³	52'-1"
'F'	42-23	41'-103	41'-6
"G"	11-216	11-18	11'-0"

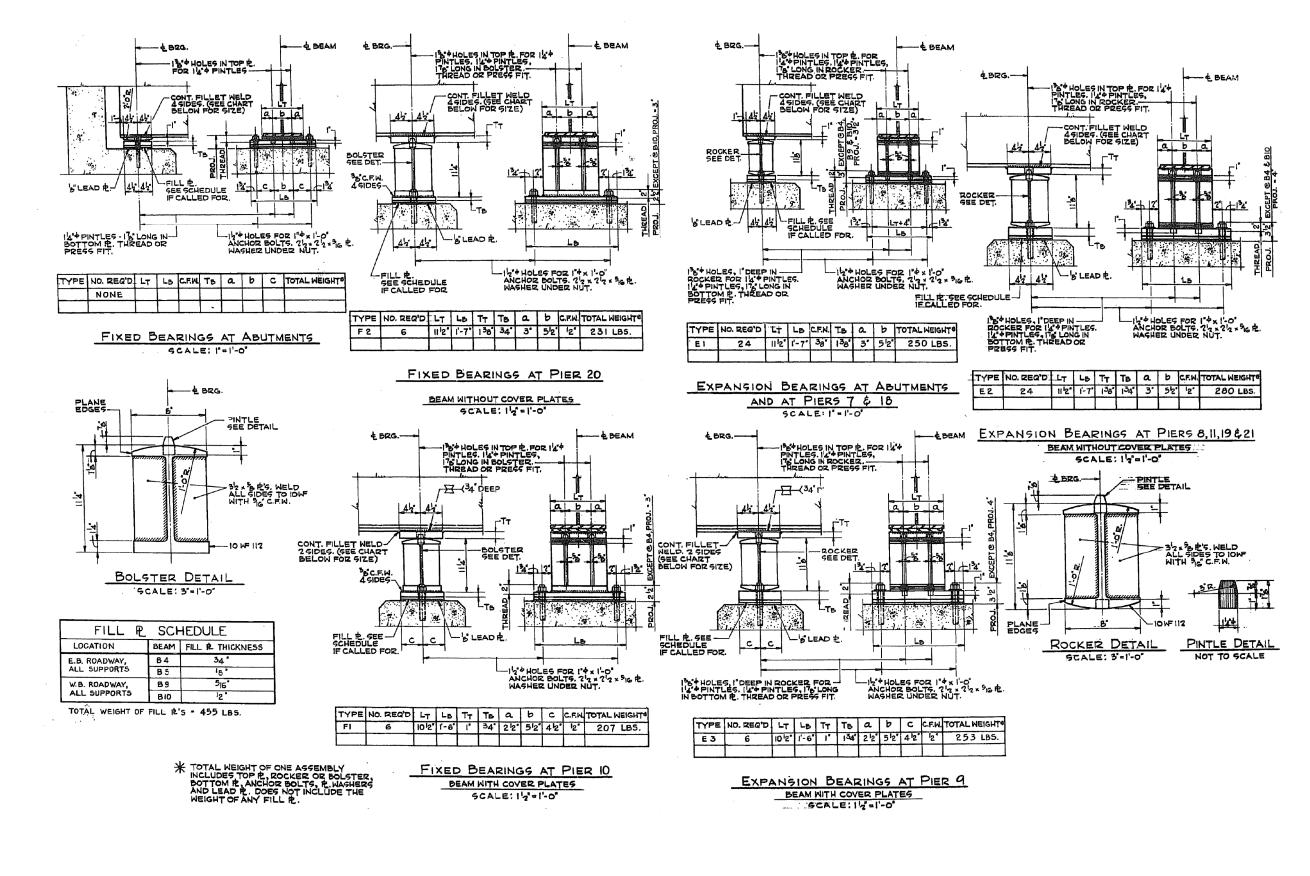
NOTES: FOR STRUCTURAL STEEL DESIGNATION, SEE GENERAL NOTES; SH. 3 FOR TABLES OF MOMENTS & REACTIONS, SEE SH. 23 FOR TABLE TOP/ WE ELEVATIONS, SEE SH. 23 FOR DIAPHRAGM DETAILS, SEE SH. 23



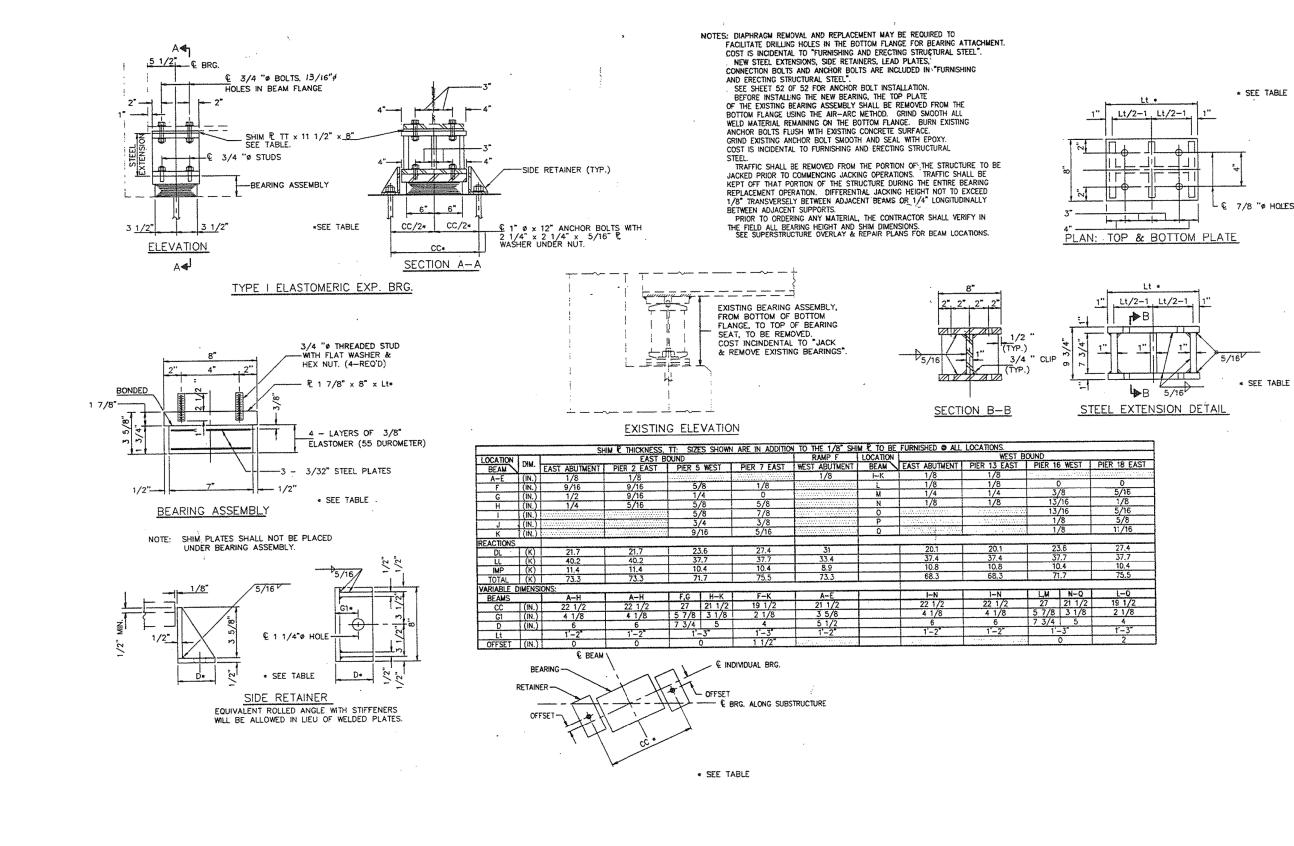
					TOP	/ WF	EL	EV	A-	rions*						
	CATION BEAM	BI	B2	83	в4	85	BG		LO	BEAM	B7	BB	в9	BIO	BII	812
	& BRG'S, PIER 7	3.886	4.050	4.169	4.227	4.17B	4.109			EBRG'S, PIER IB	4.056	4.158	4.240	4.259	4.213	4.147
	EPIER B	3.738	3.903	4.021	4.080	4.030	3.961			E PIER 19	3.860	3.961	4.044	4.062	4.016	3.950
≿∣	EFIELD SPLICE	3.698	3.862	3.981	4.039	3.990	3.921			& FIELD SPLICE \$5	3.807	3.909	3.991	4.009	3.963	3.897
DWAY	e PIER 9	3.546		3.830	3.868	3.639	3.770			€ FIELD SPLICE \$6	3.708	3.810	3.692	3.911	3.865	3.799
٠	€ FIELD SPLICE#2			3.789	3.647	3.798	3.729			¢ PIER 20	3.668	3.770	3.852	5.870		3.758
В0 В0	& FIELD SPLICE 3	3.395	3.560	3.678	3.737	3.687	3.618			& FIELD SPLICE 7		3.618	3.701		3.673	
đ	4 PIER 10		3.519		3.696	3.647	3.578			EPIER 21	3.476	3.57B		_		
យ	& FIELD SPLICE 4	3.204	3.368	3.487	3.545		3.427			& BRG'S, N.E.ABUT.			3.508			
	E PIER II	3.163	3.328	3.446	3.504	3.455	3.386									
	4 BRG'9, 5.W. ABUT.				_	3.303		8								

* ADD GTO.000 TO ALL TOP / WE ELEVATIONS GIVEN.

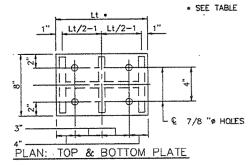
		USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT D STEEL DETAILS – LOCATION 2	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
AME			CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373 2013-040BP	СООК 122 49
z u	Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED – REVISED –	DEPARTMENT OF TRANSPORTATION	SHEET NO. SB-11 OF SB-34 SHEETS		CONTRACT NO. 60W87
Ē L		PLUT DATE = 12/05/2018 2114146 PM	CHECKED -	REVISED -		SHEET NU. SB-II OF SB-34 SHEETS	ILLINOIS	FED. AID PROJECT



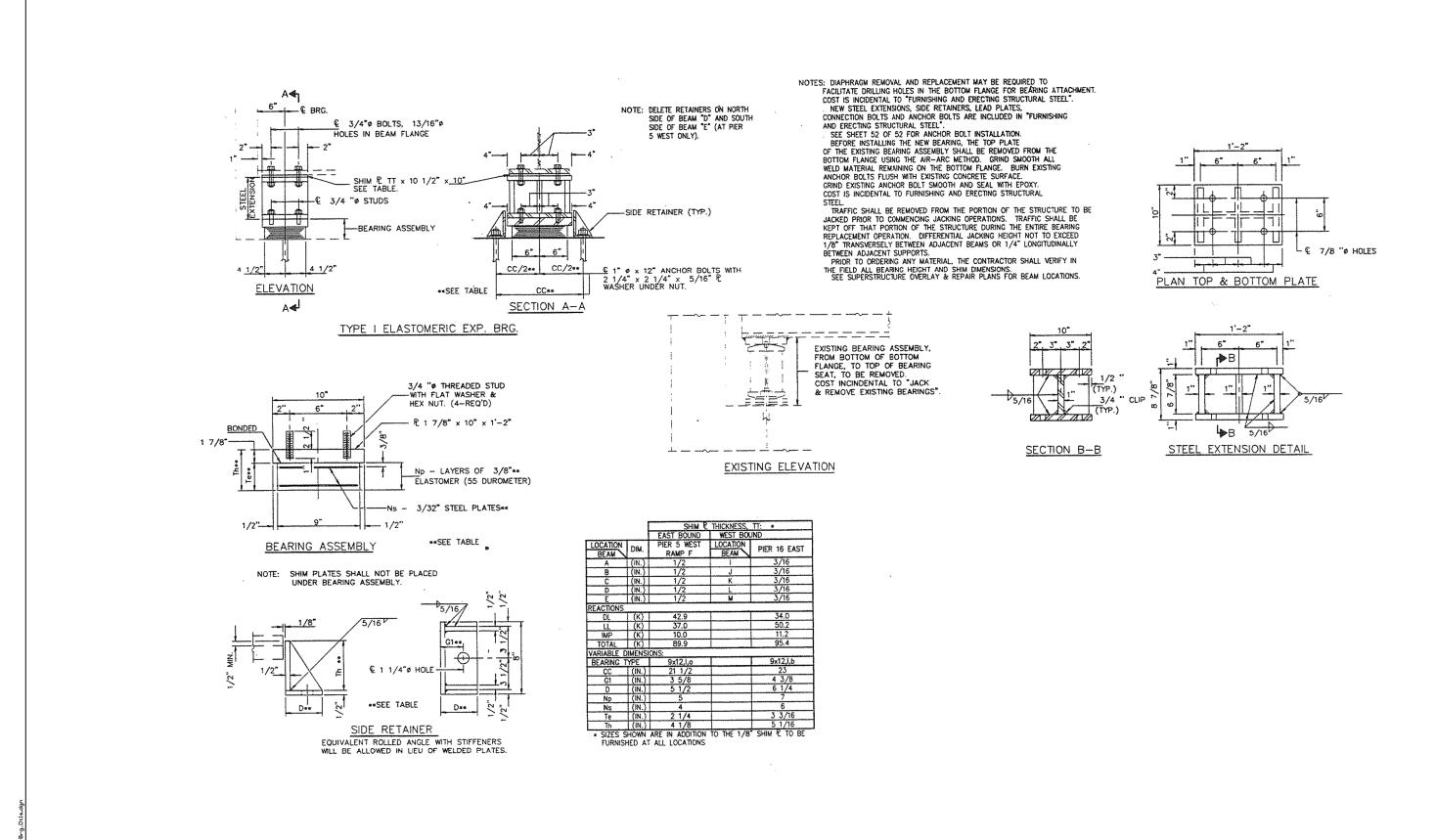
	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. UNIT D BEARING DETAILS – LOCATION 2	F.A.P.	SECTION	COUNTY	TOTAL SHEET
LIN ENGINEERING, LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0487	373	2013-040BP	СООК	122 50
	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 60W87
	PLOT DATE = 12/05/2018 2:20:41 PM	CHECKED -	REVISED -		SHEET NO. SB-12 OF SB-34 SHEETS		ILLINOIS FED. AI	D PROJECT	



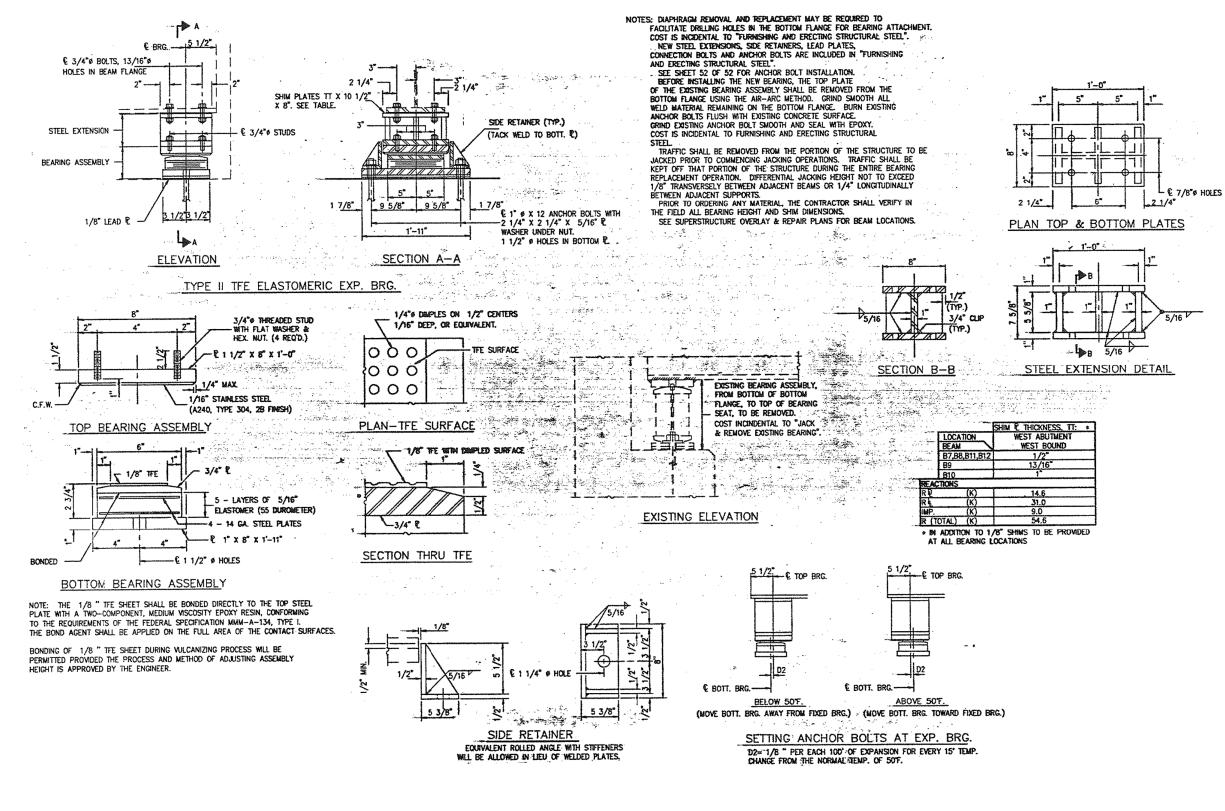
	USER NAME = Lin_31	NAME = LID_31 DESIGNED - REVISED -			1993 BEARING REPLACEMENT DETAILS – LOCATION 2		SECTION	COUNTY	TOTAL SHEET	
Consulting Engineers		CHECKED -	REVISED -	STATE OF ILLINOIS		373	2013-040BP	соок	122 51	
	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0487			CONTRACT NO. 60V		
Springfield, Illinois	PLOT DATE = 12/05/2018 2:21:34 PM	CHECKED -	REVISED -		SHEET NO. SB-13 OF SB-34 SHEETS	ILLINOIS FED. AID PROJEC		ID PROJECT	PROJECT	



ST BO												
AST	PIER 16	WEST	PIER 18 EAST									
	··	a.a.eva.d										
	C		0									
	3/		5/15									
	13/	/16	1/8									
	13/	/16	5/16									
	1/	8	5/8									
· · · ·	1/	/8	11/16									
	23	.6	27.4									
	37	.7	37.7									
	10		10.4									
	71	.7	75.5									
	L,M	N-Q	L-Q									
2	27	21 1/2	19 1/2									
	5 7/8	3 1/8	2 1/8									
	7 3/4	5	4									
	1'-	-3"	ť3*									
	(5	2									

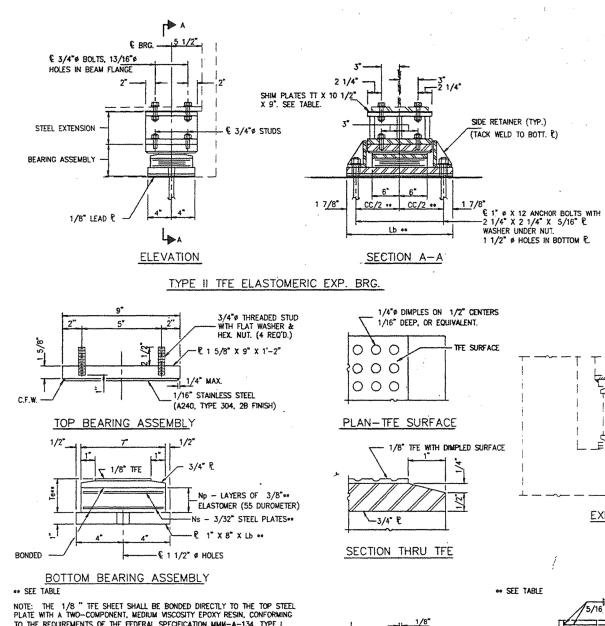


	USER NAME = Lin_31	DESIGNED -	REVISED -		1993 BEARING REPLACEMENT DETAILS - LOCATION 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL S	HEET
LIN ENGINEERING,LTD. Consulting Engineers Springfield, Illinois		CHECKED - REVISED - STATE OF ILLINOIS	STRUCTURE NO. 016-0487	373	2013-040BP	соок	122	52		
	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 010-0407			CONTRACT	NO. 60	W87
	PLOT DATE = 12/05/2018 2:22:29 PM CHECKED - REVISED -		SHEET NO. SB-14 OF SB-34 SHEETS		ILLINOIS FED. AID PROJECT					



LIN ENGINEERING,LTD. Consulting Engineers	USER NAME = Lin_31	DESIGNED -	REVISED -		1993 BEARING REPLACEMENT DETAILS – LOCATION 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373	2013-040BP	СООК	122 53
	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 010-0467			CONTRAC	T NO. 60W87
	PLOT DATE = 12/05/2018 2:23:25 PM	CHECKED -	REVISED -		SHEET NO. SB-15 OF SB-34 SHEETS		ILLINOIS FED. AID PROJECT		

	SHIM & THICKNESS, 11: 2
	WEST ABUTMENT
	WEST BOUND
,B12	1/2"
	13/16*
	1*
\sum	. 14.6
)	31.0
)	9.0
)	54.6



¥

12

1/2"

5/16

NOTES: DIAPHRAGM REMOVAL AND REPLACEMENT MAY BE REQUIRED TO FACULTATE DRILLING HOLES IN THE BOTTOM FLANCE FOR BEARING ATTACHMENT. COST IS INCIDENTAL TO "FURNISHING AND ERECTING STRUCTURAL STEEL". NEW STEEL EXTENSIONS, SIDE RETAINERS, LEAD PLATES, DEVICED DATA NOT DEVICE DEVICE DEFENSION DEFENSION.

NEW STEEL EXTENSIONS, SIDE RETAINERS, LEAD PLATES, CONNECTION BOLTS AND ANCHOR BOLTS ARE INCLUDED IN "FURNISHING AND ERECTING STRUCTURAL STEEL". SEE SHEET 52 OF 52 FOR ANCHOR BOLT INSTALLATION. BEFORE INSTALLING THE NEW BEARING, THE TOP PLATE OF THE EXISTING BEARING ASSEMBLY SHALL BE REMOVED FROM THE BOTTOM FLANGE USING THE AIR-ARC METHOD. GRIND SMOOTH ALL WELD MATERIAL REMAINING ON THE BOTTOM FLANGE. BURN EXISTING ANCHOR BOLTS FLUSH WITH EXISTING CONCRETE SURFACE. GRIND EXISTING ANCHOR BOLT SMOOTH AND SEAL WITH EPOXY. COST IS INCIDENTAL TO FURNISHING AND ERECTING STRUCTURAL STEEL.

TEEL TRAFFIC SHALL BE REMOVED FROM THE PORTION OF THE STRUCTURE TO BE JACKED PRIOR TO COMMENCING JACKING OPERATIONS. TRAFFIC SHALL BE KEPT OFF THAT PORTION OF THE STRUCTURE DURING THE ENTRE BEARING REPLACEMENT OPERATION. DIFFERENTIAL JACKING HEIGHT NOT TO EXCEED REPLACEMENT OFERATION. DIFFERENTIAL JACKING HEIGHT NUT TO EXCELU 1/8 TRANSVERSELY BETWEEN ADJACENT BEAMS OR 1/4* LONGITUDINALLY BETWEEN ADJACENT SUPPORTS. PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL BEARING HEIGHT AND SHIM DIMENSIONS. SEE SUPER STRUCTURE OVERLAY & REPAIR PLANS FOR BEAM LOCAATIONS.

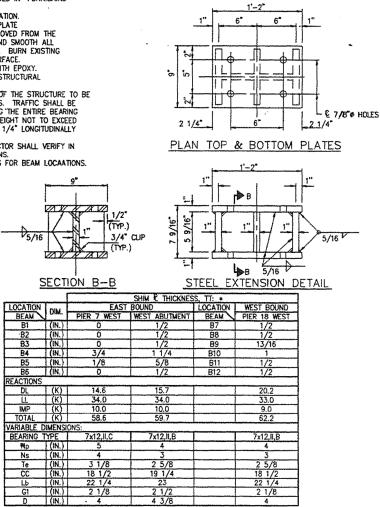
EXISTING BEARING ASSEMBLY, FROM BOTTOM OF BOTTOM FLANGE, TO TOP OF BEARING

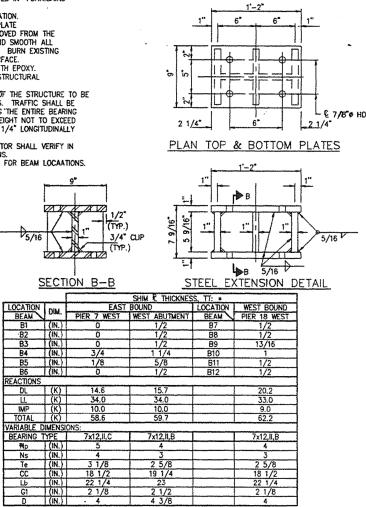
COST INCINDENTAL TO *JACK

& REMOVE EXISTING BEARING"

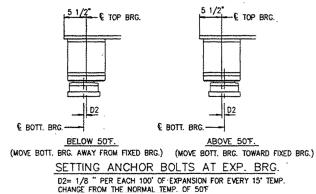
SEAT, TO BE REMOVED.

EXISTING ELEVATION









		USER NAME = Lin_31	DESIGNED -	REVISED -		1993 BEARING REPLACEMENT DETAILS - LOCATION 2	F.A.P. SECTION	COUNTY TOTAL SHEET
	EIN ENGINEERING, ETD		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0487	373 2013-040BP	COOK 122 54
	Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	51KUCIUKE NU. 010-048/		CONTRACT NO. 60W87
		PLOT DATE = 12/05/2018 2:24:19 PM	CHECKED -	REVISED -		SHEET NO. SB-16 OF SB-34 SHEETS	ILLINOIS FED. A	ID PROJECT

€ 1 1/4" & HOLF

SIDE RETAINER

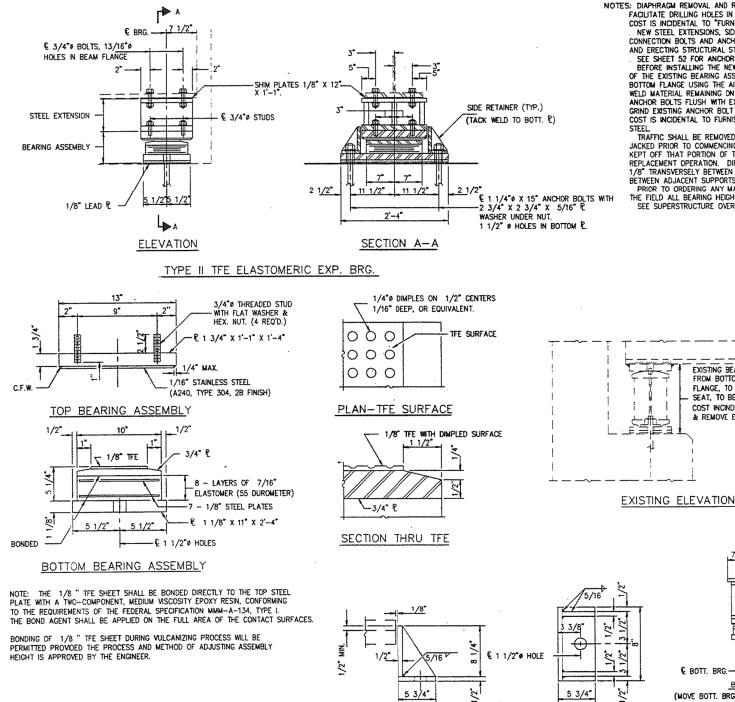
EQUIVALENT ROLLED ANGLE WITH STIFFENERS

WILL BE ALLOWED IN LIEU OF WELDED PLATES.

TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATION MMM-A-134, TYPE I. THE BOND AGENT SHALL BE APPLIED ON THE FULL AREA OF THE CONTACT SURFACES.

BONDING OF 1/8 ". TFE SHEET DURING VULCANIZING PROCESS WILL BE PERMITTED PROVIDED "THE PROCESS AND METHOD OF ADJUSTING ASSEMBLY HEIGHT IS APPROVED BY THE ENGINEER.

. IN ADDITION TO 1/8" SHIMS TO BE PROVIDED @ ALL BEARING LOCATIONS.



NOTES: DIAPHRAGM REMOVAL AND REPLACEMENT MAY BE REQUIRED TO FACILITATE DRILLING HOLES IN THE BOTTOM FLANGE FOR BEARING ATTACHMENT. COST IS INCIDENTAL TO "FURNISHING AND ERECTING STRUCTURAL STEEL".

COST IS INCIDENTAL TO "FURNISHING AND ERECTING STRUCTURAL STEEL". NEW STEEL EXTENSIONS, SIDE RETAINERS, LEAD PLATES, CONNECTION BOLTS AND ANCHOR BOLTS ARE INCLUDED IN "FURNISHING AND ERECTING STRUCTURAL STEEL". SEE SHEET 52 FOR ANCHOR BOLT INSTALLATION. BEFORE INSTALLING THE NEW BEARING, THE TOP PLATE OF THE EXISTING BEARING ASSEMBLY SHALL BE REMOVED FROM THE BOTTOM FLANGE USING THE AIR-ARC METHOD. GRIND SMOOTH ALL WELD MATERIAL REMAINING ON THE BOTTOM FLANGE. BURN EXISTING MULTURE STRUCTURE UNTLE VERSION CONCIPE SUBFACE ANCHOR BOLTS FLUSH WITH EXISTING CONCRETE SURFACE. GRIND EXISTING ANCHOR BOLT SMOOTH AND SEAL WITH EPOXY. COST IS INCIDENTAL TO FURNISHING AND ERECTING STRUCTURAL

SIELL TRAFFIC SHALL BE REMOVED FROM THE PORTION OF THE STRUCTURE TO BE JACKED PRIOR TO COMMENCING JACKING OPERATIONS. TRAFFIC SHALL BE KEPT OFF THAT PORTION OF THE STRUCTURE DURING THE ENTIRE BEARING REPLACEMENT OPERATION. DIFFERENTIAL JACKING HEIGHT NOT TO EXCEED 1/8" TRANSVERSELY BETWEEN ADJACENT BEAMS OR 1/4" LONGITUDINALLY BETWEEN ADJACENT SUPPORTS. PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL VERIFY IN

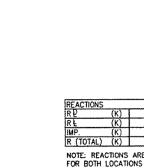
THE FIELD ALL BEARING HEIGHT AND SHIM DIMENSIONS. SEE SUPERSTRUCTURE OVERLAY & REPAIR PLANS FOR BEAM LOCATIONS.

EXISTING BEARING ASSEMBLY,

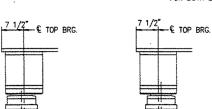
FLANGE, TO TOP OF BEARING

FROM BOTTOM OF BOTTOM

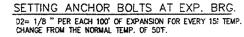
SEAT, TO BE REMOVED. COST INCINDENTAL TO "JACK & REMOVE EXISTING BEARING".



SECTION B-B



E BOTT. BRG. C BOTT. BRG. BELOW 50F. ABOVE 50T. (MOVE BOTT. BRG. AWAY FROM FIXED BRG.) (MOVE BOTT. BRG. TOWARD FIXED BRG.)

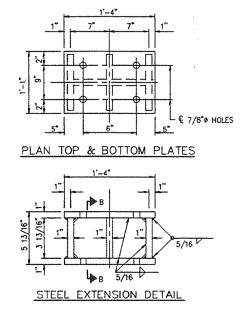


LIN ENGINEERING, LTD Consulting Engineers		USER NAME = Lin_31	DESIGNED -	REVISED -		1993 BEARING PLACEMENT DETAILS – LOCATION 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
			CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373	2013-040BP	СООК	122 55
		PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	SIRUCIURE NU. 010-0487			CONTRAC	T NO. 60W87
	opringratu, minuta	PLOT DATE = 12/05/2018 2:25:13 PM	CHECKED -	REVISED -		SHEET NO. SB-17 OF SB-34 SHEETS	ILLINOIS FED. AID PROJECT		AID PROJECT	

SIDE RETAINER

EQUIVALENT ROLLED ANGLE WITH STIFFENERS

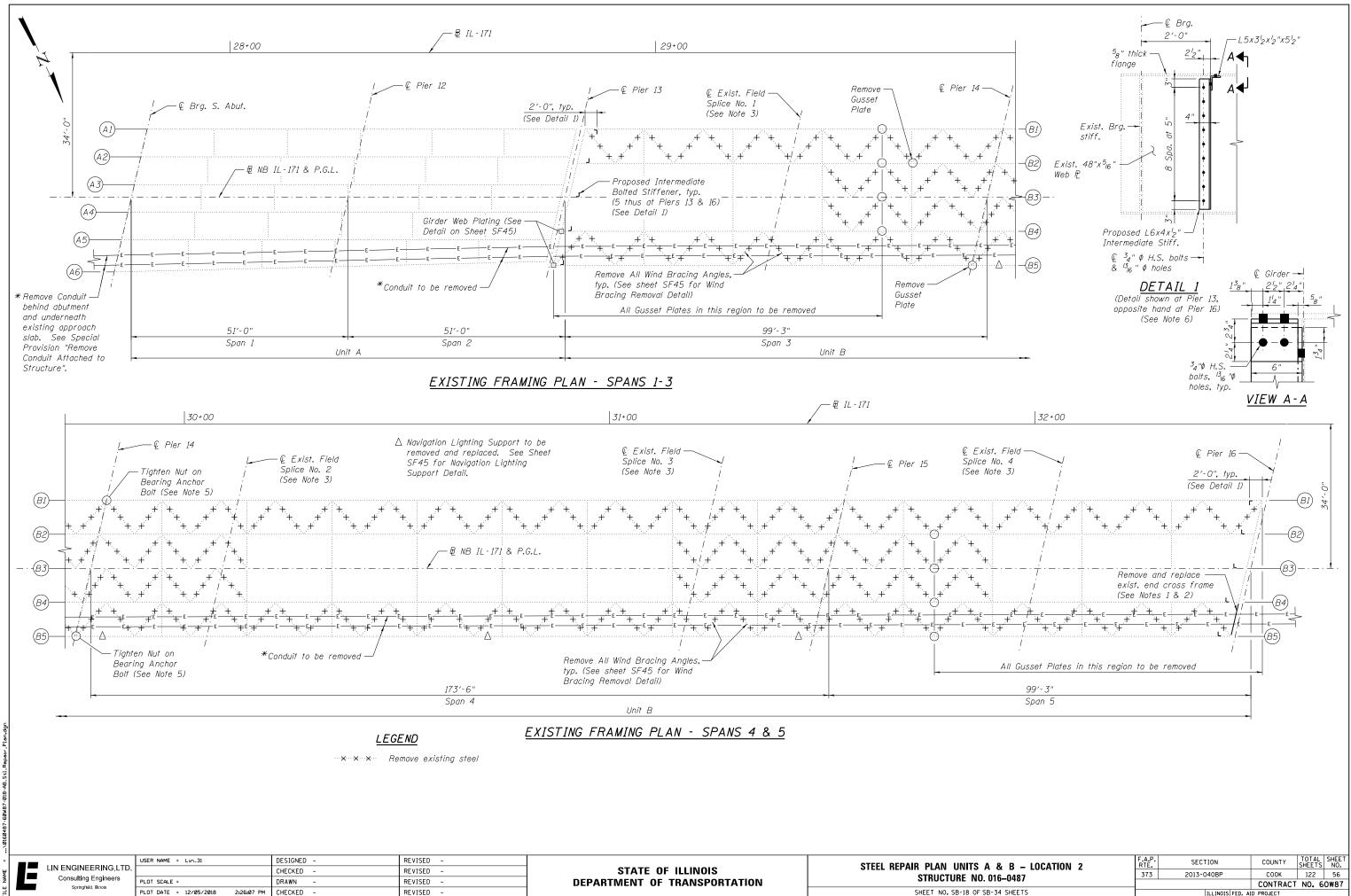
WILL BE ALLOWED IN LIEU OF WELDED PLATES.



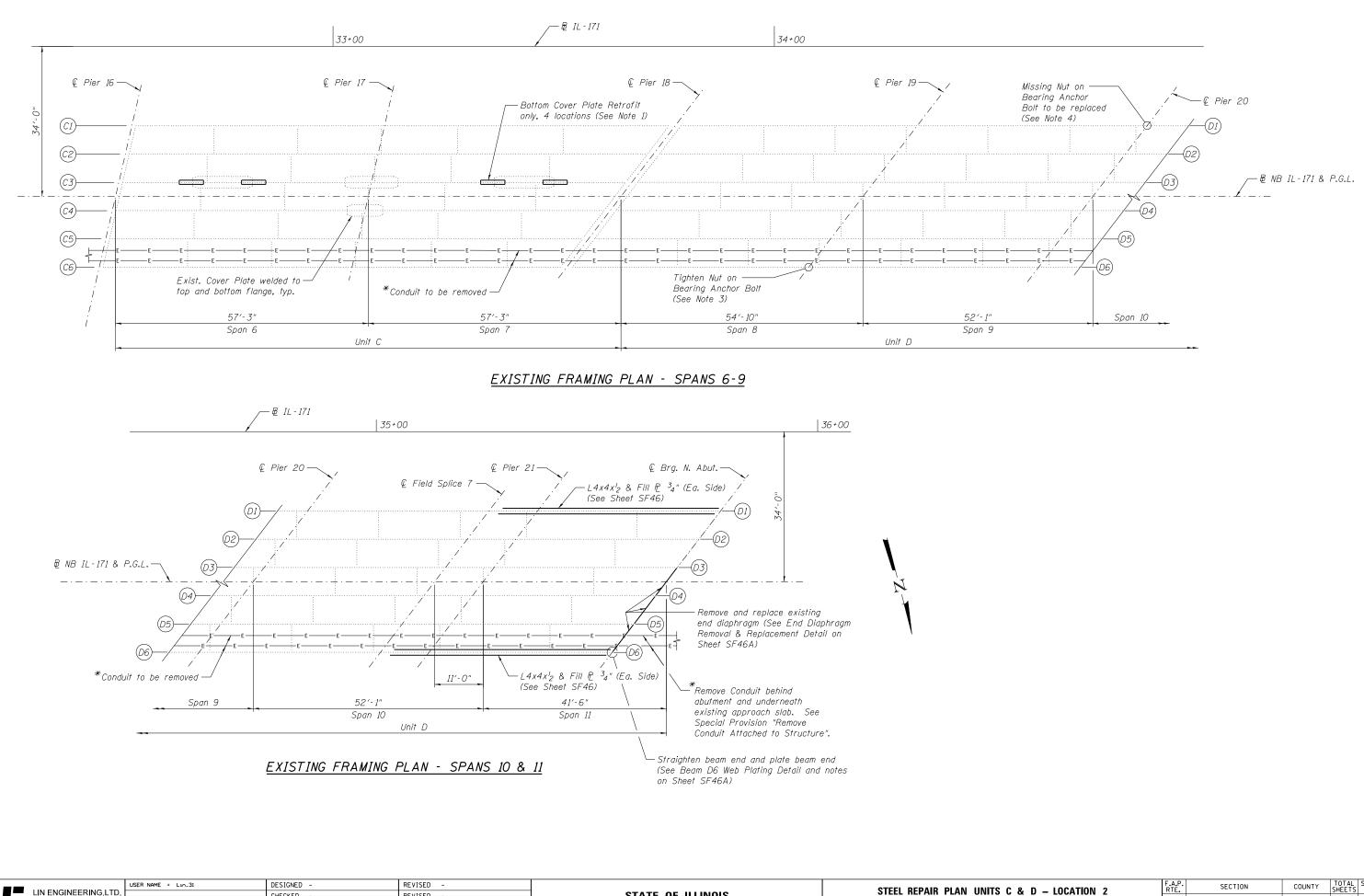
3/4" CLIP

TYP.)

K)	34.0
K)	50.2
К)	11.2
K)	95.4
ONS	ARE THE SAME

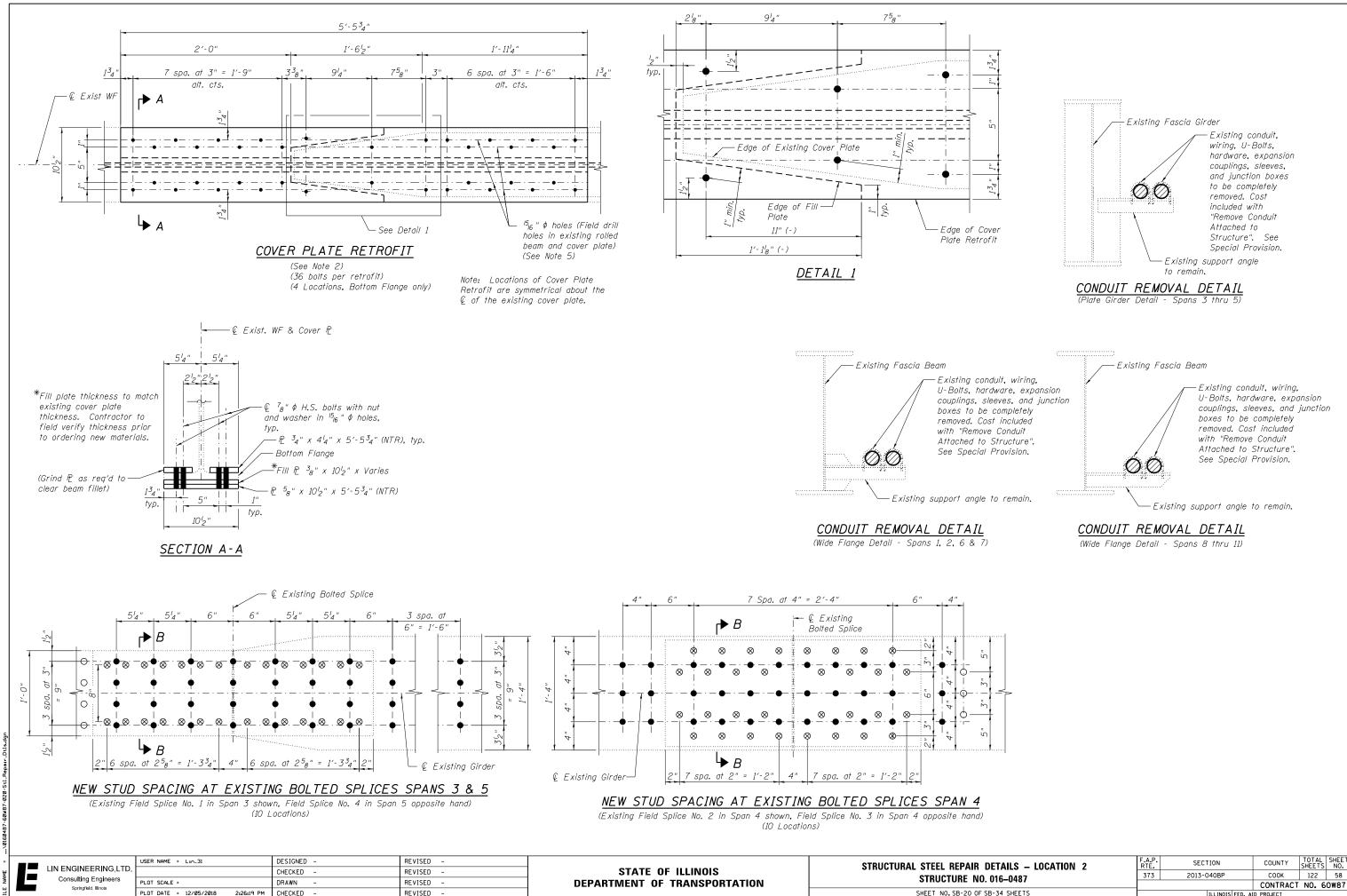


	NAME - LIN_31	DESIGNED - CHECKED -	REVISED – REVISED –	STATE OF ILLINOIS	STEEL REPAIR PLAN UNITS A
Consulting Engineers Springfield, Illinois	SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 0
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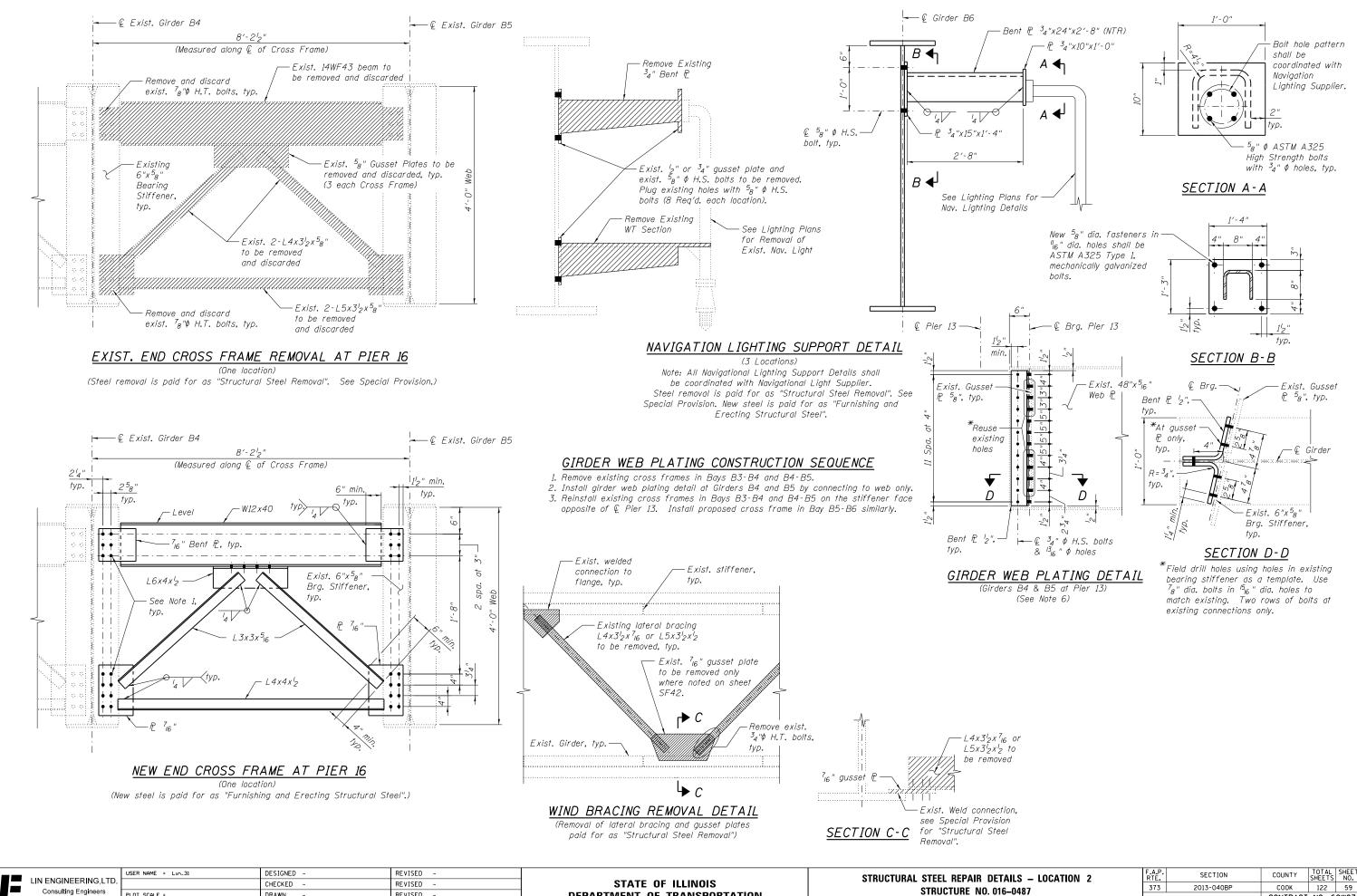


E	LIN ENGINEERING, LTD	USER NAME = Lin_31	DESIGNED - REVISED - CHECKED - REVISED - STATE OF ILLINOIS		STEEL REPAIR PLAN UNITS C	
	Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 01
		PLOT DATE = 12/05/2018 2:26:13 PM	CHECKED -	REVISED -		SHEET NO. SB-19 OF SB-3

NITS C & D – LOCATION 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
E NO. 016–0487	373	2013-040BP	СООК	122	57	
	CONTRACT NO. 60W87					
19 OF SB-34 SHEETS	ILLINOIS FED. AID PROJECT					



DETAILS – LOCATION 2	RTE.	SECTION		COUNTY	SHEETS	NO.
016–0487	373	2013-040BP		СООК	122	58
. 010-0487				CONTRACT	NO. 6	0W87
SB-34 SHEETS		ILLINOIS	FED. AI	D PROJECT		

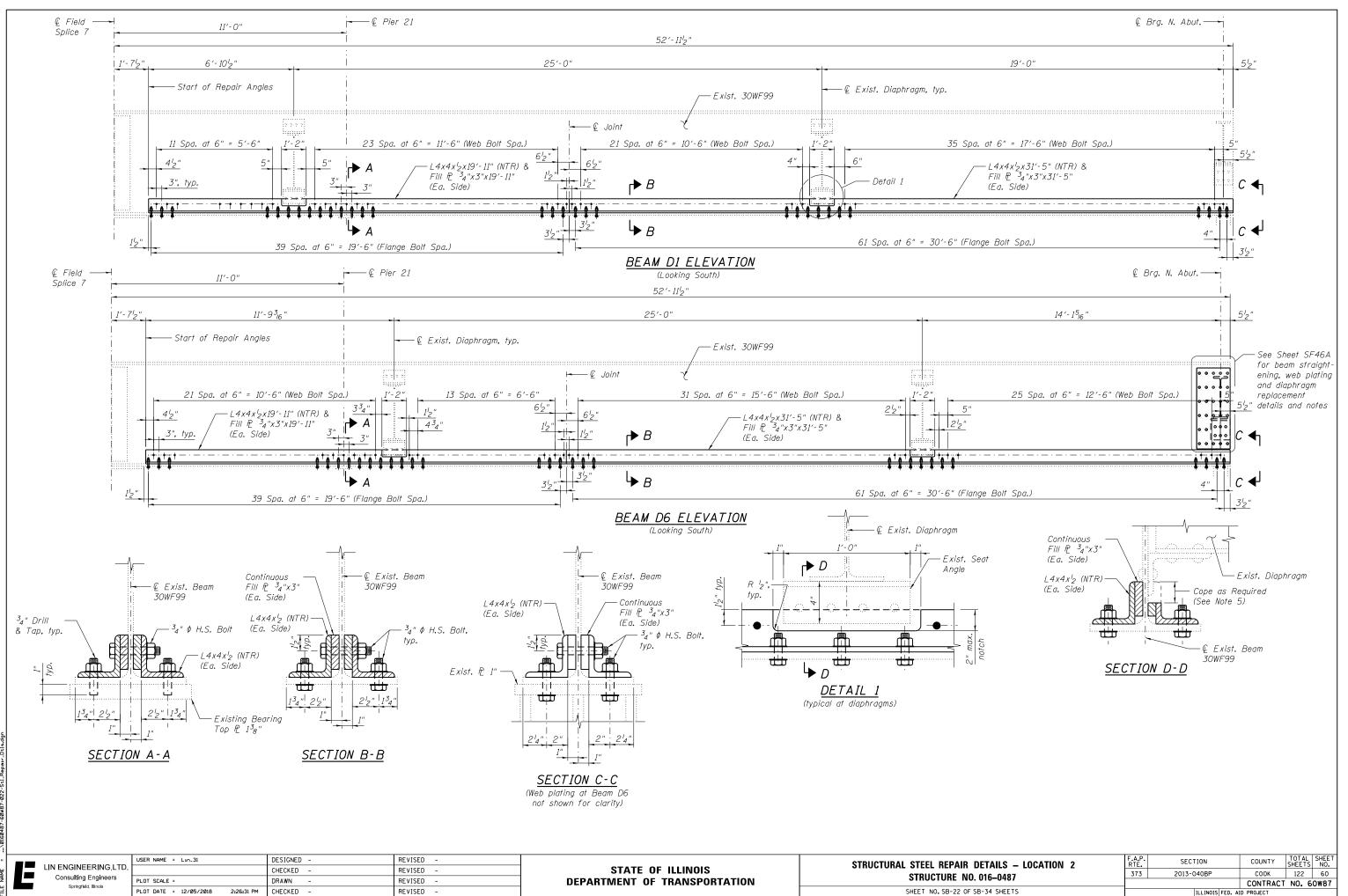


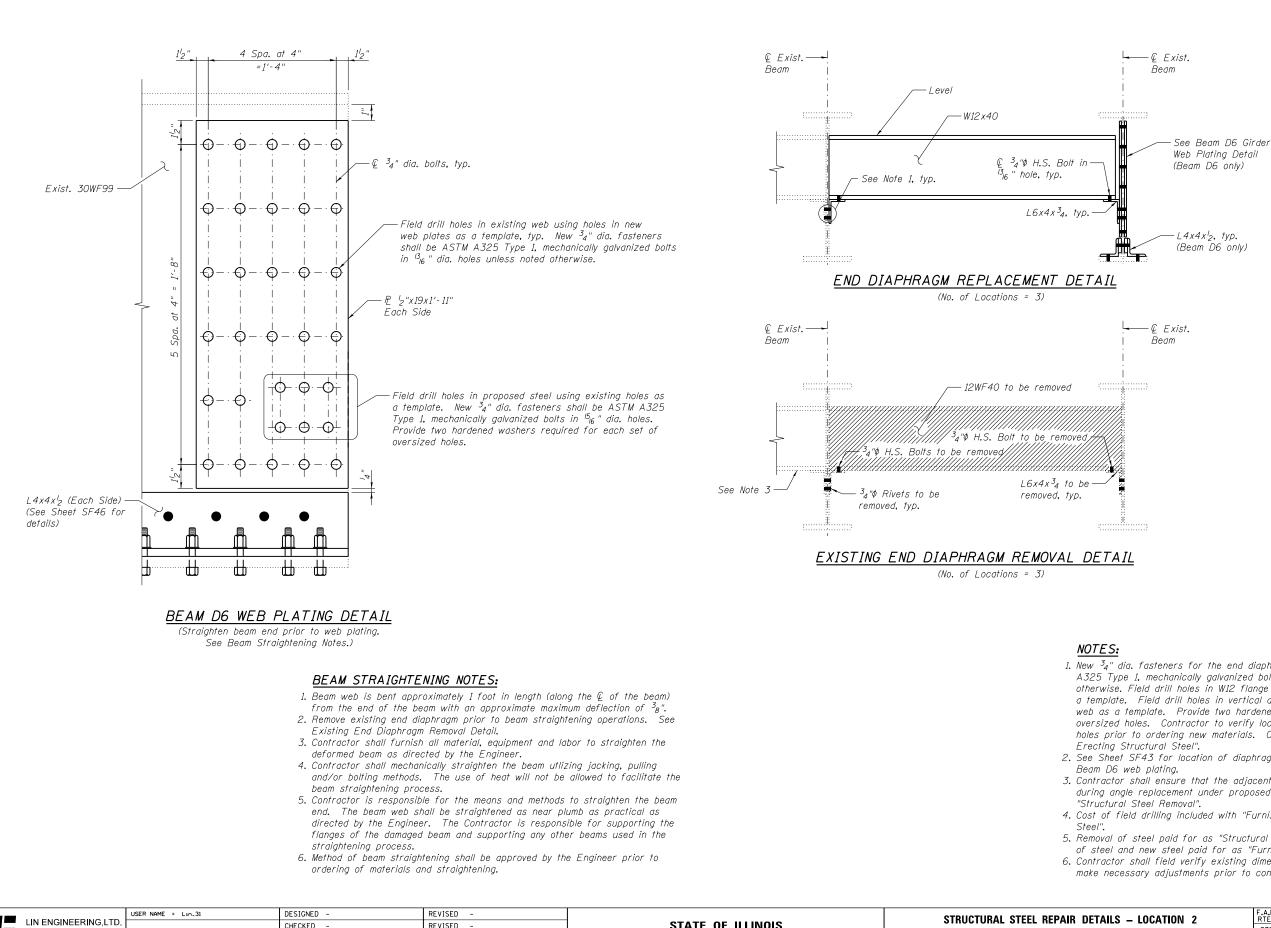
STRUCTURE NO. DRAWN REVISED **DEPARTMENT OF TRANSPORTATION** SHEET NO. SB-21 OF S PLOT DATE = 12/05/2018 2:26:25 PM CHECKED -REVISED

Springfield, Illinois

LOT SCALE =

DETAILS – LOCATION 2	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 016–0487	373	2013-040BP	СООК	122	59
. 010-0407			CONTRACT	NO. 6	OW87
SB-34 SHEETS		ILLINOIS FED. A	D PROJECT		





	USER NAME = Lin_31	DESIGNED -	REVISED -		STRUCTURAL STEEL REPAIR DETAILS - LOCATION 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
Consulting Engineers		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373	2013-040BP	соок	122	61
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 6	JW87
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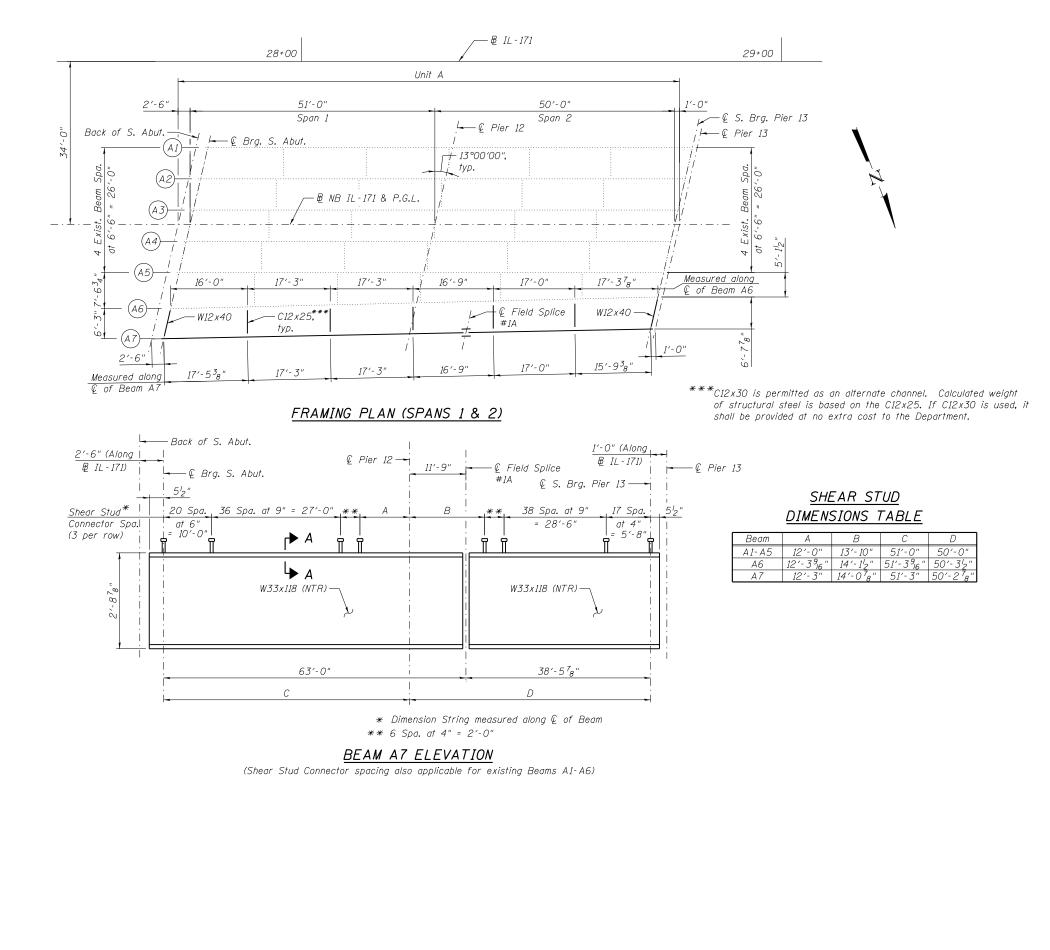
1. New 3_4 " dia. fasteners for the end diaphragm replacement shall be ASTM A325 Type 1, mechanically galvanized bolts in ¹⁵16" dia. holes unless noted otherwise. Field drill holes in W12 flange using holes in horizontal angle leg as a template. Field drill holes in vertical angle leg using holes in existing beam web as a template. Provide two hardened washers required for each set of oversized holes. Contractor to verify location, size and spacing of existing holes prior to ordering new materials. Cost included with "Furnishing and

2. See Sheet SF43 for location of diaphragm replacement and removal and

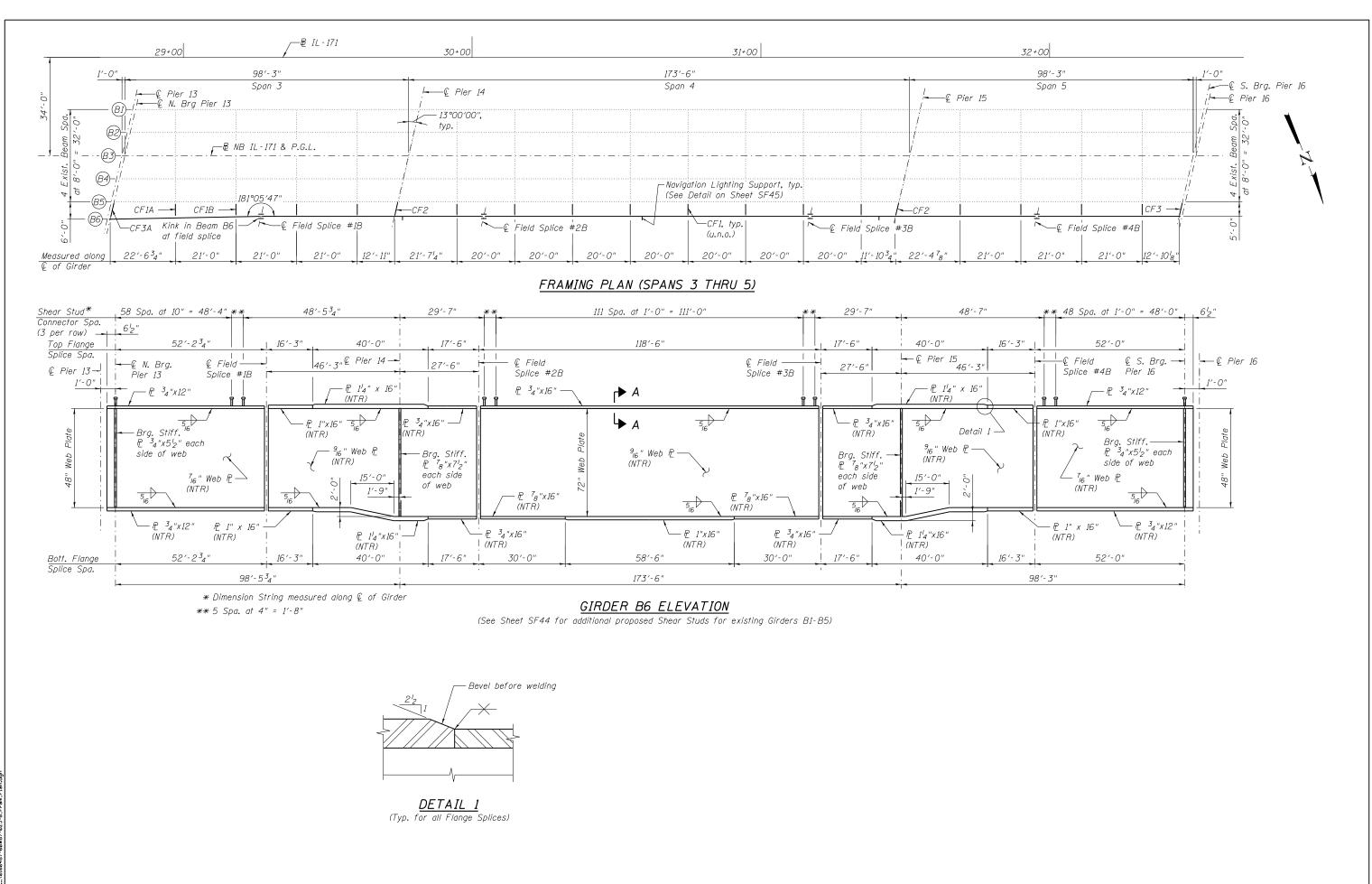
3. Contractor shall ensure that the adjacent existing diaphragm is supported during angle replacement under proposed diaphragm. Cost included with

4. Cost of field drilling included with "Furnishing and Erecting Structural

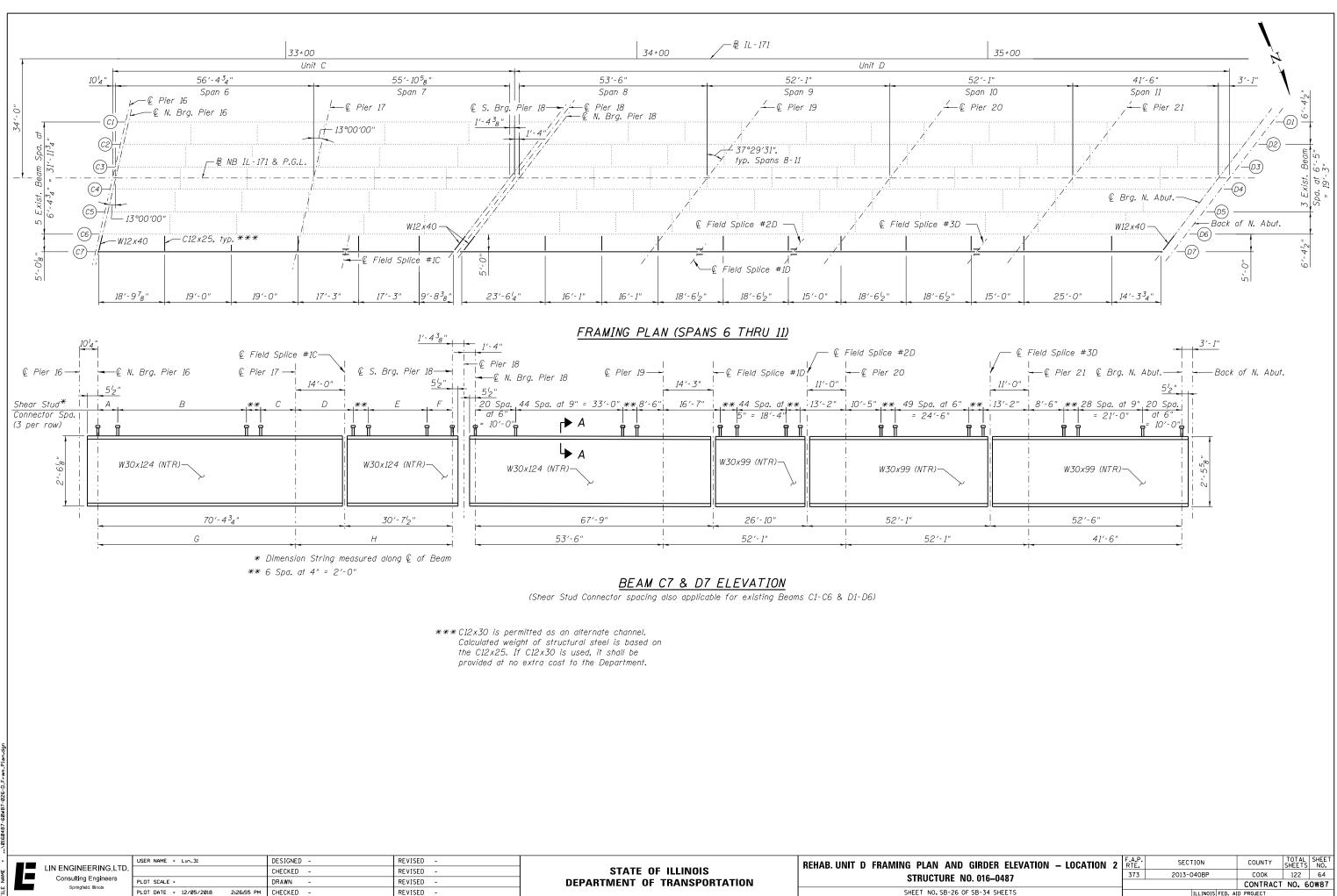
5. Removal of steel paid for as "Structural Steel Removal". Replacement of steel and new steel paid for as "Furnishing and Erecting Structural Steel". 6. Contractor shall field verify existing dimensions and hole locations and make necessary adjustments prior to construction or ordering of materials.



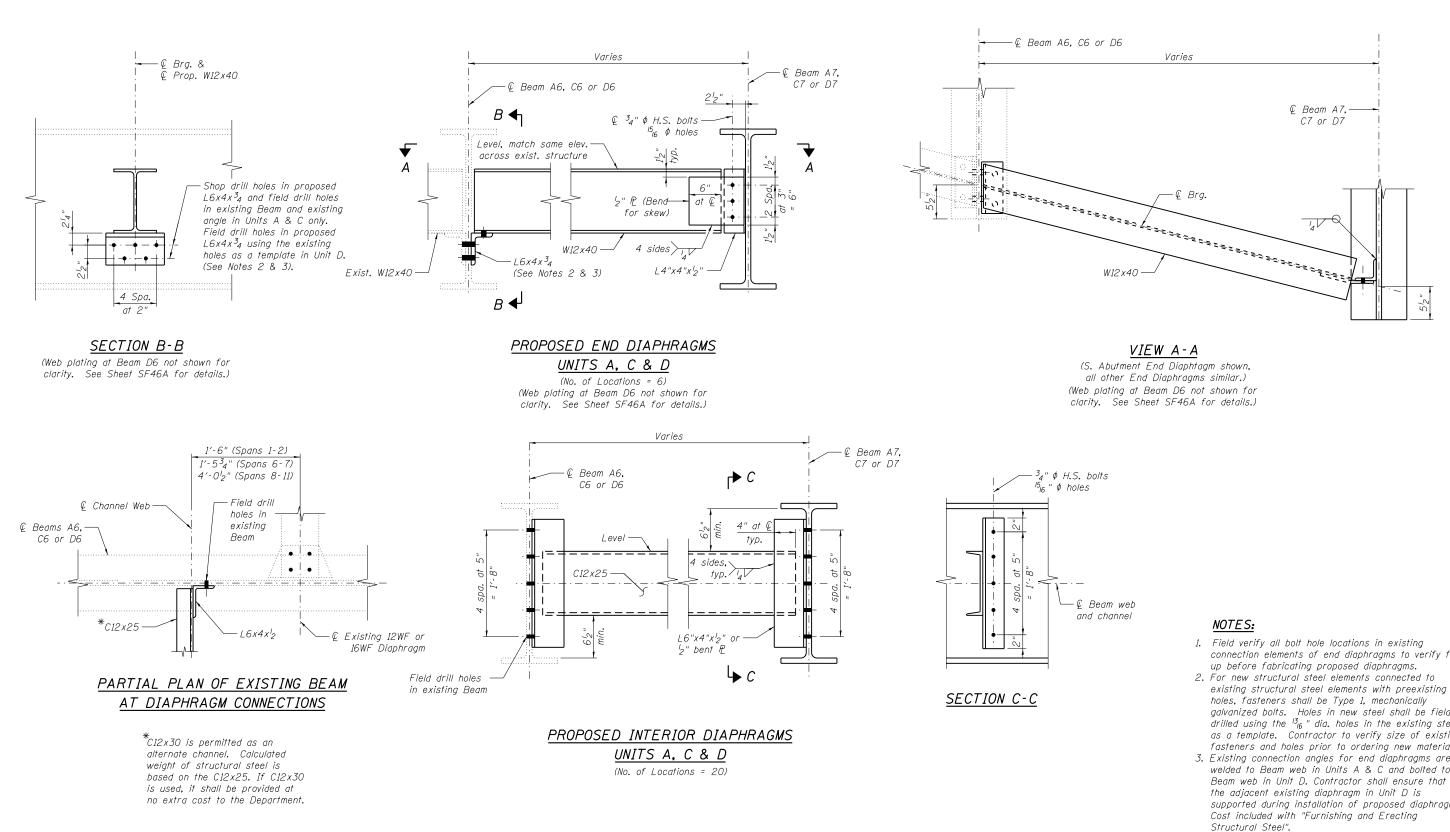
	USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. UNIT A FRAMING PLAN AND GIRDER ELEVATION – LOCATION 2	F.A.P. SECTION	COUNTY	TOTAL SH	EET
LIN ENGINEERING,LID.		CHECKED -	REVISED -	STATE OF ILLINOIS		373 2013-040BP	соок	122 6	52
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0487		CONTRACT	-	87
Springheid, hilhois	PLOT DATE = 12/05/2018 2:26:43 PM	CHECKED -	REVISED -		SHEET NO.SB-24 OF SB-34 SHEETS	ILLINO	S FED. AID PROJECT		-



	USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. UNIT B FRAMING PLAN AND GIRDER ELEVATION - LOCATION 2	SECTION	COUNTY TOTAL SHEET
	j,LTD.	CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	2013-040BP	СООК 122 63
Consulting Engin Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60W87
	PLOT DATE = 12/05/2018 2:26:49 PM	CHECKED -	REVISED -		SHEET NO. SB-25 OF SB-34 SHEETS	ILLINOIS FED.	AID PROJECT

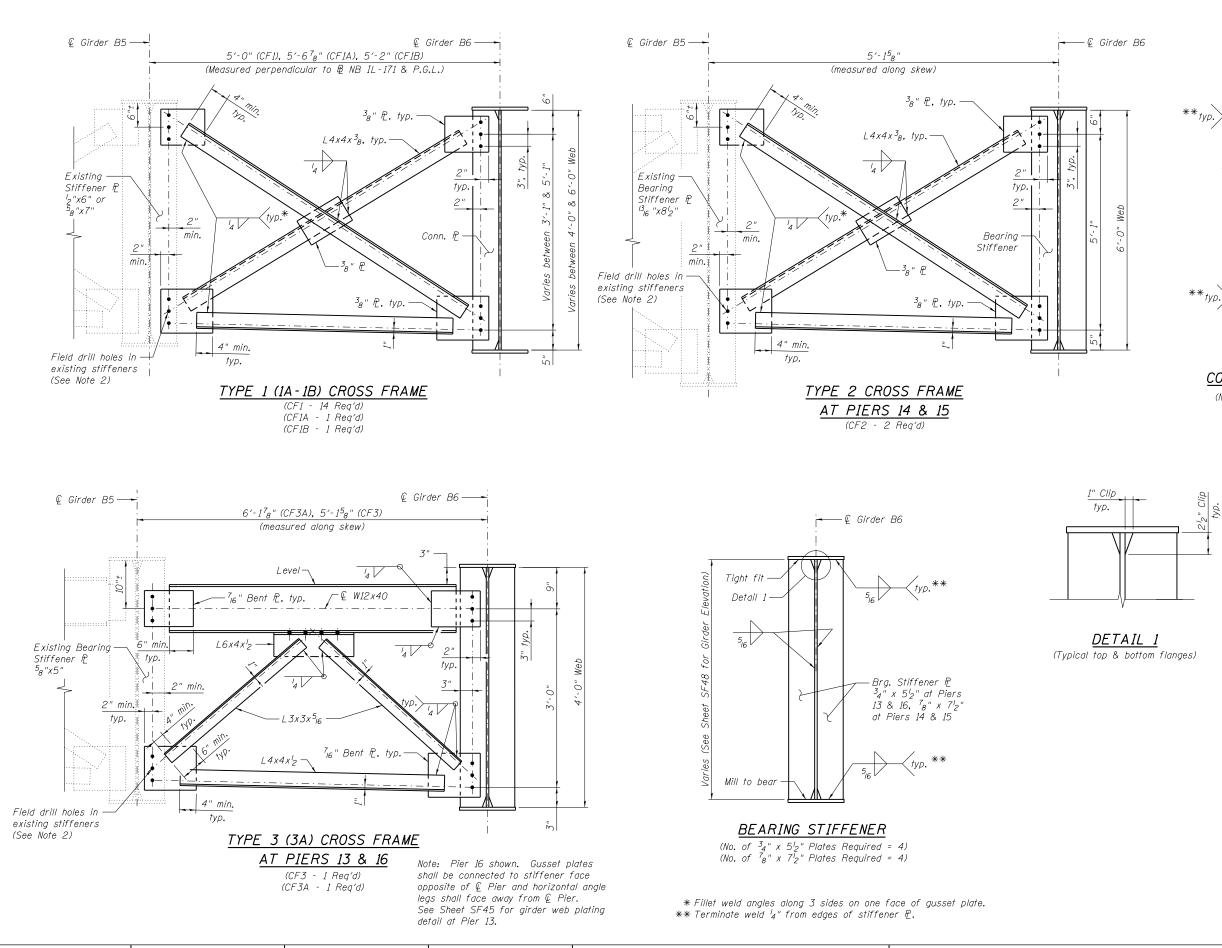


LIN ENGINEERING, LTD.	USER NAME = Lin_31	DESIGNED - CHECKED -	REVISED – REVISED –	STATE OF ILLINOIS	REHAB. UNIT D FRAMING PLAN A
Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTUR
Springheid, hilmois	PLOT DATE = 12/05/2018 2:26:55 PM	CHECKED -	REVISED -		SHEET NO. SB-



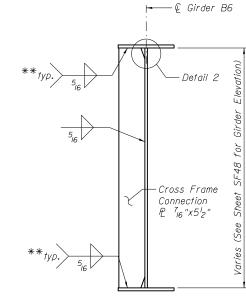
	NEERING.LTD.	USEN NHIPE - EINESI	DESIGNED -	REVISED -		REHAB. STEEL DIAPHRAGM DETAILS – LOCATION 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
			CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373	2013-040BP	СООК	122 65
2	ngfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION		_		CONTRAC	T NO. 60W87
đ		PLOT DATE = 12/05/2018 2:27:00 PM	CHECKED -	REVISED -		SHEET NO. SB-27 OF SB-34 SHEETS		ILLINOIS FED. A	ID PROJECT	

- connection elements of end diaphragms to verify fit
- existing structural steel elements with preexisting galvanized bolts. Holes in new steel shall be field drilled using the $^{13}_{16}\,$ " dia. holes in the existing steel as a template. Contractor to verify size of existing fasteners and holes prior to ordering new materials.
- 3. Existing connection angles for end diaphragms are welded to Beam web in Units A & C and bolted to Beam web in Unit D. Contractor shall ensure that supported during installation of proposed diaphragm. Cost included with "Furnishing and Erecting
- 4. All diaphragms shall be installed as steel is erected and secured with erection pins and bolts. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
- 5. Cost of all field drilling included with "Furnishing Erecting Structural Steel".
- 6. For framing plans, see Sheets SF47 & SF49. 7. Provide two hardened washers for each set of oversized holes.



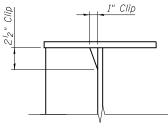
۳L

	USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. STEEL PLATE GIRDER CROSS FRAMES – LOCATION 2	F.A.P. RTF.	SECTION	COUNTY TOTAL SHEET
	•	CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0487	373	2013-040BP	СООК 122 66
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION		_		CONTRACT NO. 60W87
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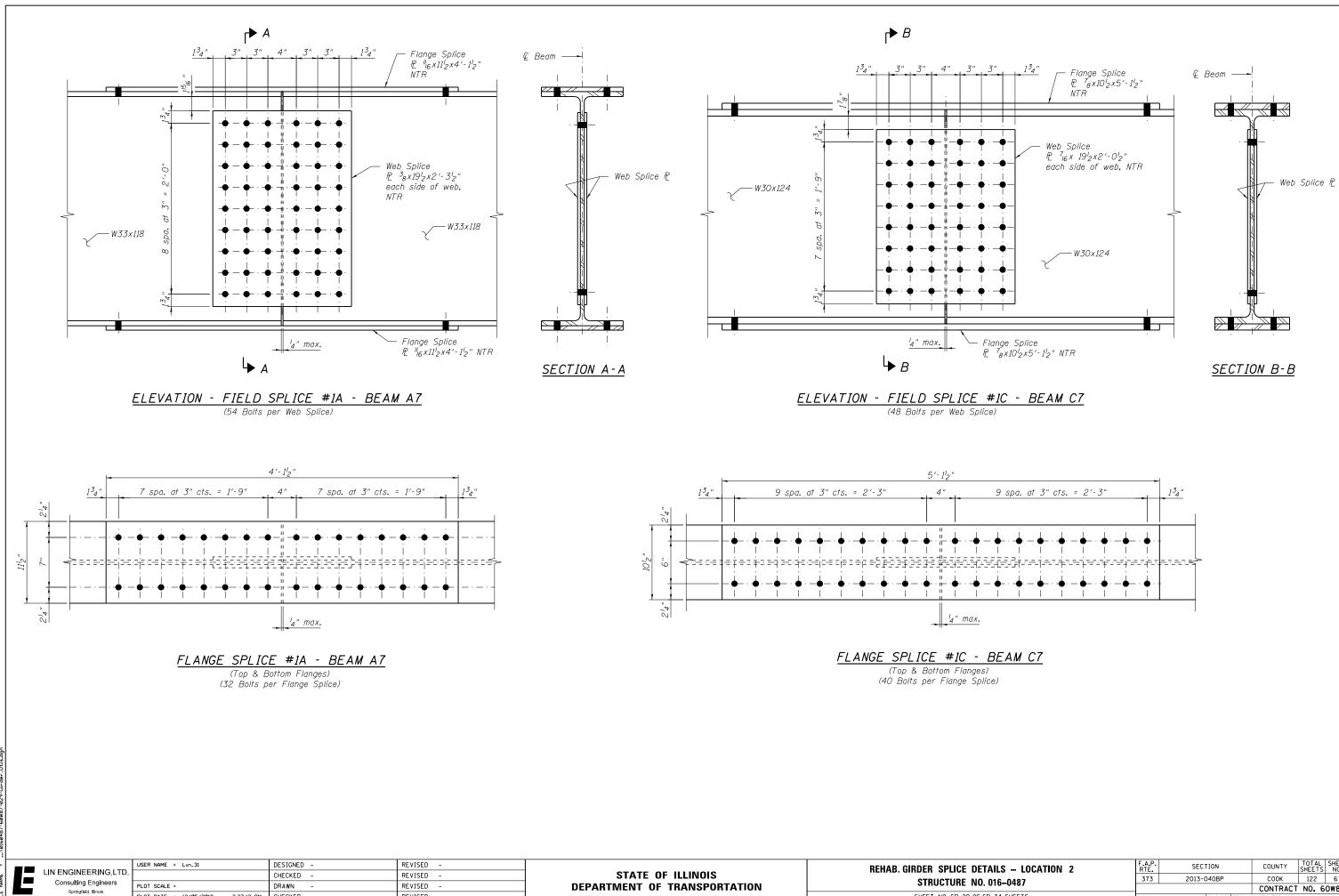


CONNECTION PLATE DETAIL

(No. of Connection Plates Reg'd = 16)



DETAIL 2 (Typical top & bottom flanges)

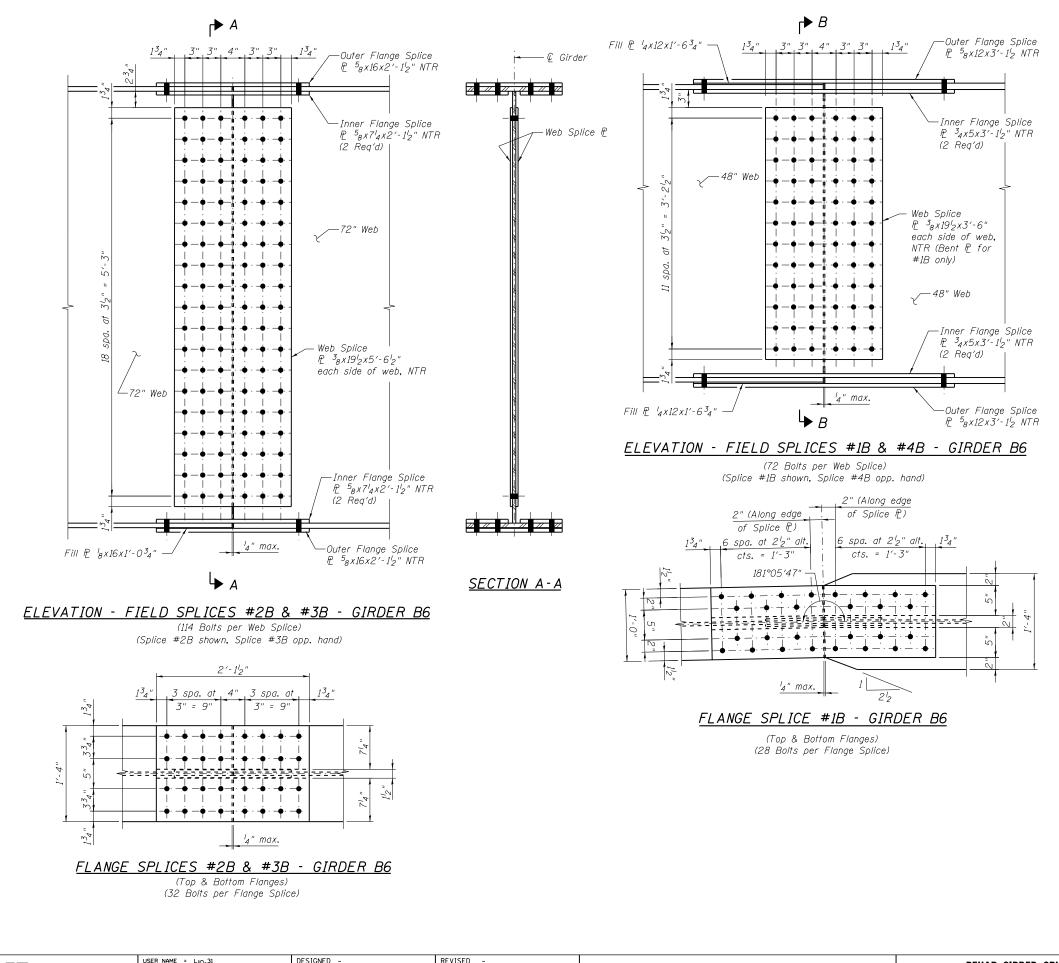


SHEET NO. SB-29 OF SI

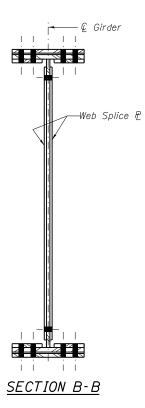
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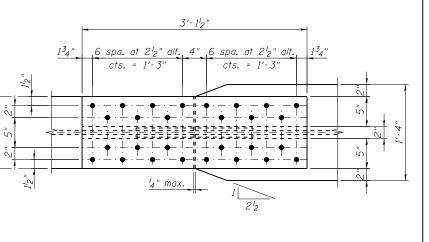
REVISED -

TAILS – LOCATION 2	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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. 010-0407	CONTRACT NO. 60W8						
SB-34 SHEETS	ILLINOIS FED. AID PROJECT						



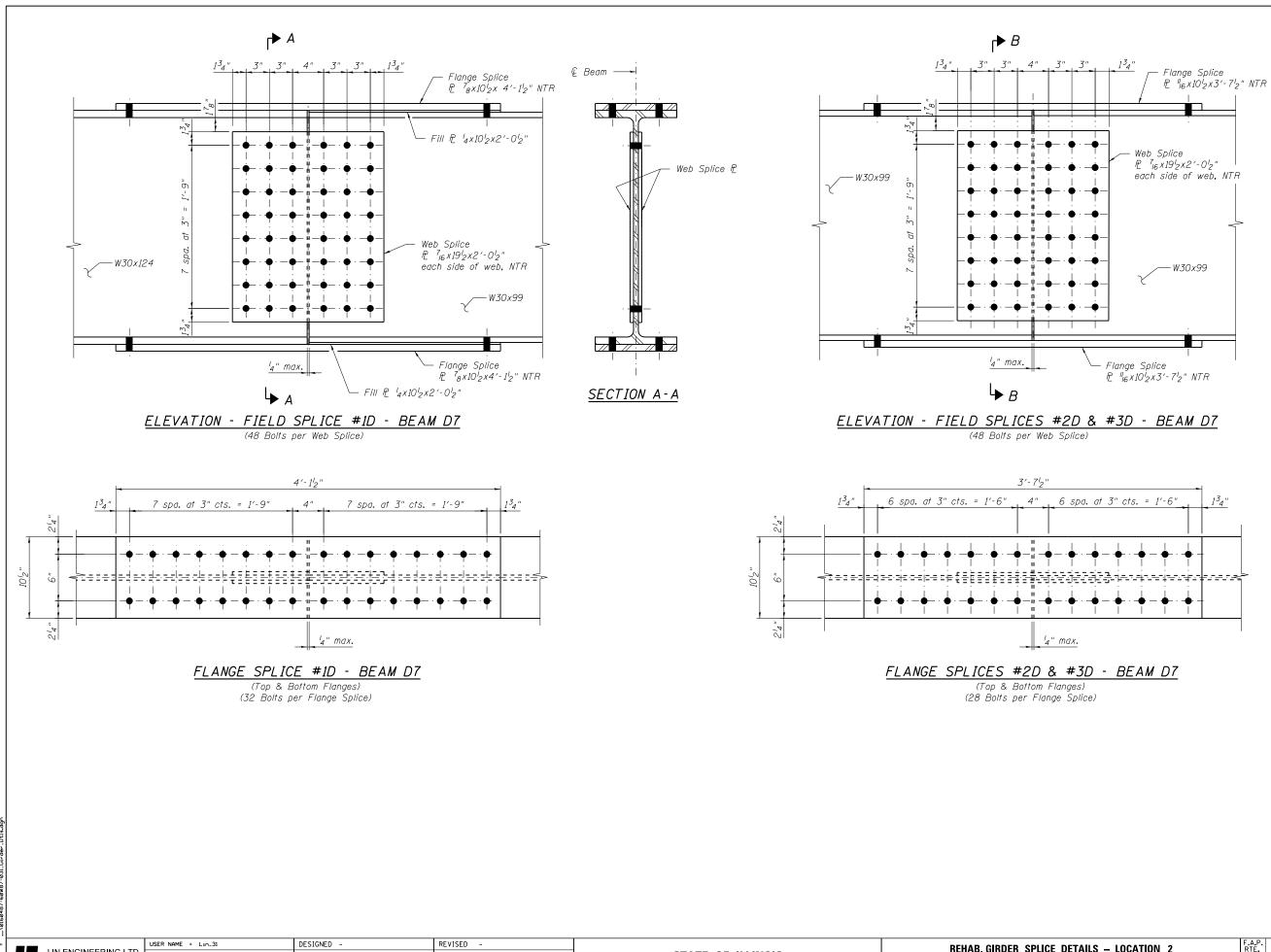
12	LIN ENGINEERING, LTD.	USER NAME = Lin_31	DESIGNED - CHECKED -	REVISED - REVISED -	STATE OF ILLINOIS	REHAB. GIRDER SPLICE DETAIL
E	Consulting Engineers	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016
	Springfield, Illinois	PLOT DATE = 12/05/2018 2:27:18 PM	CHECKED -	REVISED -		SHEET NO.SB-30 OF SB-34



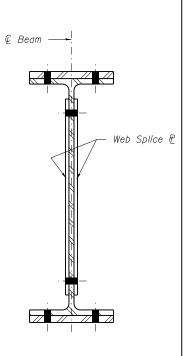




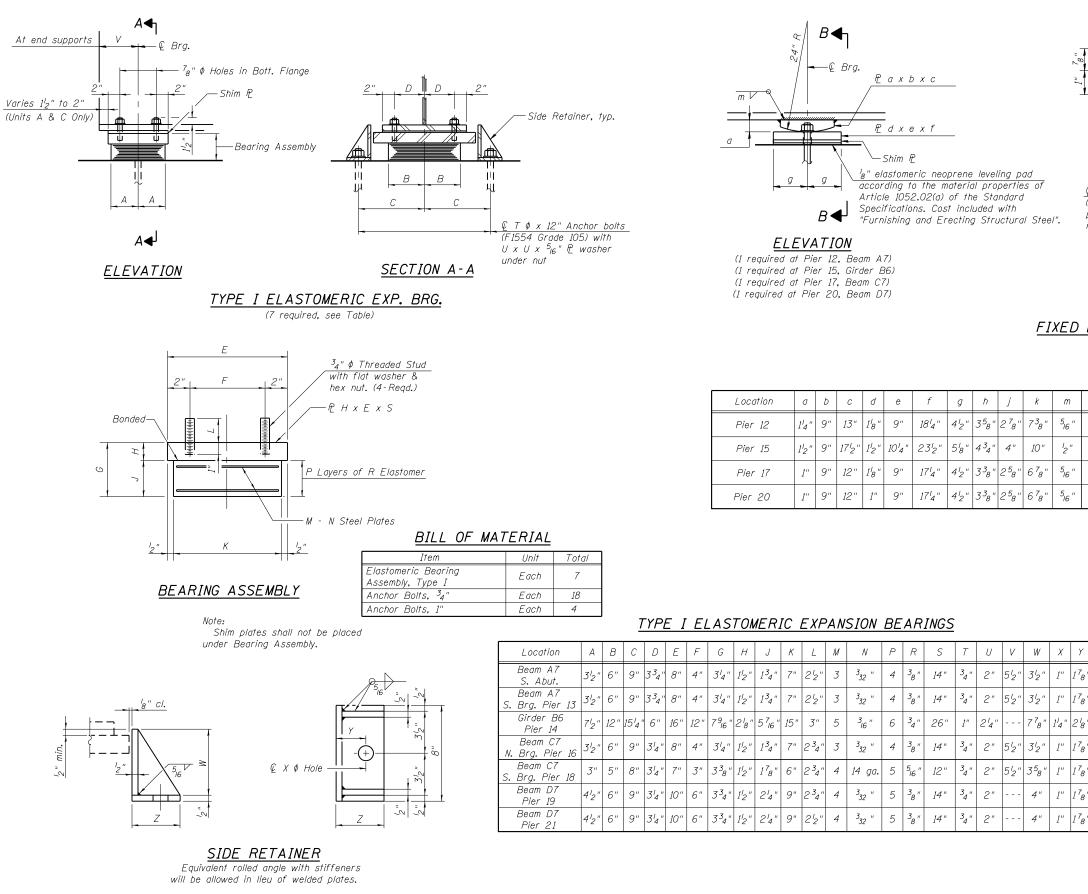
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68	122	СООК	2013-040BP	373	NO 016-0487			
OW87	NO. 6	CONTRACT			NO. 016–0487			
		ID PROJECT	ILLINOIS FED. A	OF SB-34 SHEETS				
	122	COOK CONTRACT	2013-040BP		NO. 016–0487			

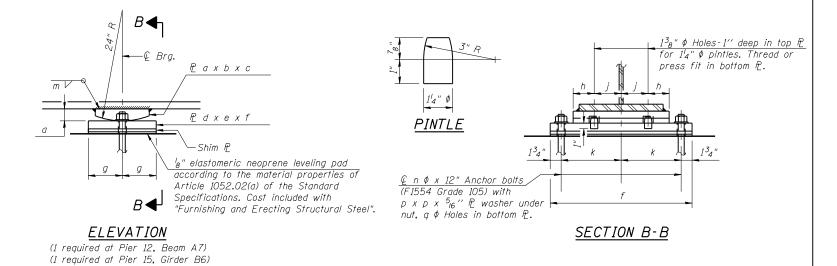


 	USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. GIRDER SPLICE DETAILS – LOCATION 2	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
LIN ENGINEERING, LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373	2013-040BP	СООК	122	69
Springfield, Illinois	PLOT SCALE = PLOT DATE = 12/05/2018 2:27:24 PM	DRAWN – CHECKED –	REVISED – REVISED –	DEPARTMENT OF TRANSPORTATION	SHEET NO. SB-31 OF SB-34 SHEETS		ILLINOIS FED. AI	CONTRACT	NO. 60	W87
							ILE MOIS FEBRAR	DINOGECI		



SECTION B-B





[Location	а	b	С	d	е	f	g	ħ	j	k	т	n	P	q
	Pier 12	14"	9"	13"	1′ ₈ "	9"	18′4″	4 ¹ 2"	3 ⁵ 8"	2 ⁷ 8 "	7 ³ 8"	⁵ 16 "	³ 4 "	2"	1 ¹ 4″
	Pier 15	$l_{2}^{\prime}{}''$	9"	17′2″	l_2''	10'4"	23 ¹ 2"	5′8″	4 ³ 4"	4"	10 "	12"	1"	24"	1 ¹ 2"
	Pier 17	1"	9"	12"	18"	9"	17′4″	4 ¹ 2"	3 ³ 8"	2 ⁵ 8"	6 ⁷ 8"	⁵ 16 "	³ 4 "	2"	1 ¹ 4″
	Pier 20	1"	9"	12"	1"	9"	17′4″	4 ¹ 2"	3 ³ 8"	2 ⁵ 8"	6 ⁷ 8 "	⁵ 16 "	³ 4"	2"	1 ¹ 4″

TYPE I ELASTOMERIC EXPANSION BEARINGS

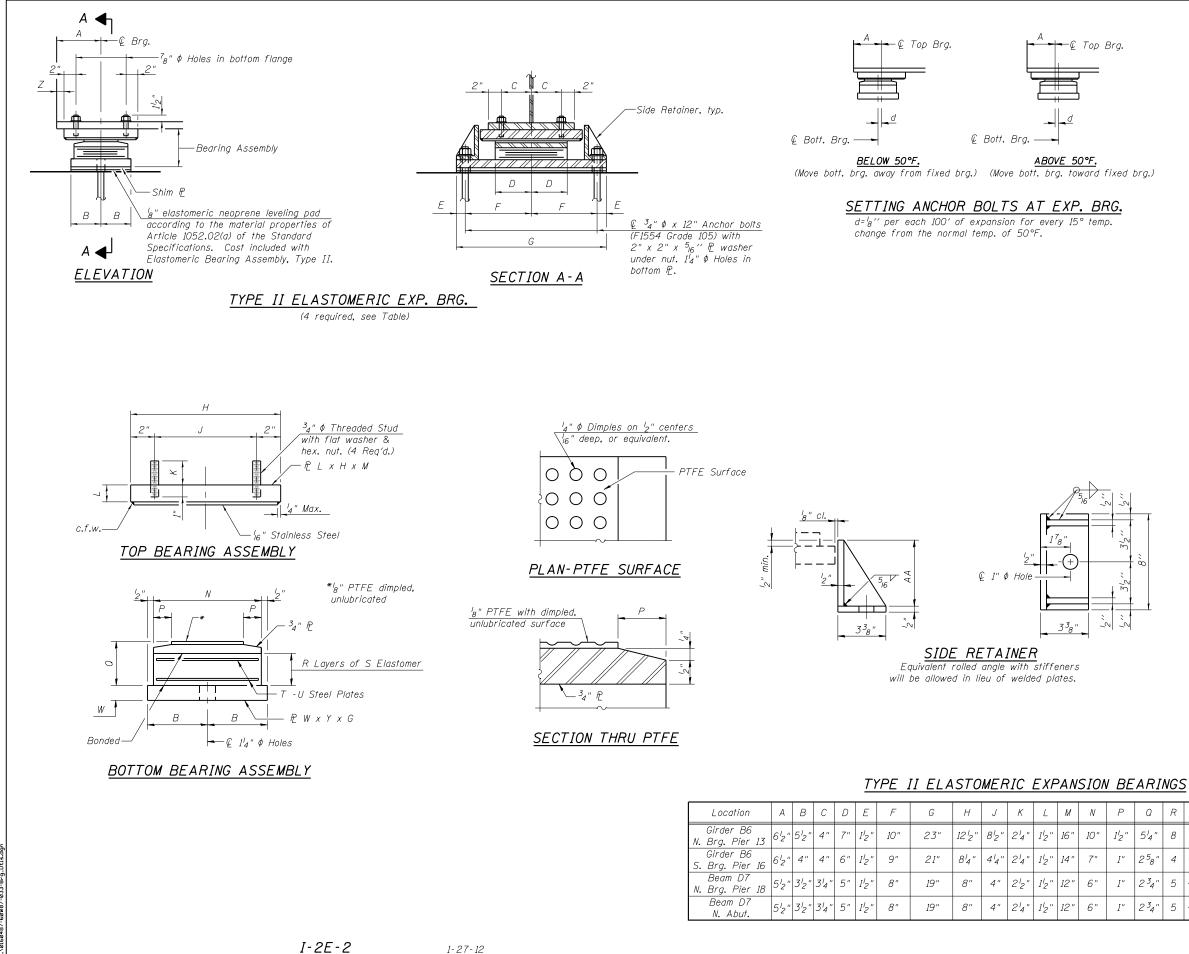
(1 required at Pier 17, Beam C7) (1 required at Pier 20, Beam D7)

	Location	A	В	C		E	F	G	Н	J	ĸ	L	М	/\	Р	R	5	/	U	V	W	X	r	
	Beam A7 S. Abut.	3′2″	6"	9"	3 ³ 4"	8"	4"	34"	1'2"	134"	7"	2 ¹ 2"	3	3 ₃₂ "	4	3 ₈ "	14 "	34"	2"	5′2″	3½"	1"	178"	-
S	Beam A7 5. Brg. Pier 13	3′2″	6"	9"	3 ³ 4"	8"	4"	34"	1'2"	134"	7"	21/2"	3	³ 32 "	4	3 ₈ "	14"	34"	2"	5′2″	3′2″	1"	1 ⁷ 8"	
	Girder B6 Pier 14	7′2″	12 "	15 ¹ 4 '	6"	16 "	12"	7 ⁹ 16 "	2′8″	5 ⁷ 16 "	15"	3"	5	3 ₁₆ "	6	34"	26"	1"	24"		7 ⁷ 8 "	14"	2′8″	
٨	Beam C7 I. Brg. Pier 16	3′2″	6"	9"	34"	8"	4"	3′4″	1'2"	134"	7"	2 ³ 4"	3	³ 32 "	4	3 ₈ "	14 "	34"	2"	5′2″	3′2″	1"	1 ⁷ 8"	. ,
S.	Beam C7 , Brg, Pier 18	3"	5"	8"	34″	7"	3"	3 ³ 8"	1'2"	178"	6"	2³4"	4	14 ga.	5	⁵ /6 "	12"	34"	2"	5′ <u>2</u> ″	3 ⁵ 8″	1"	178"	. ,
	Beam D7 Pier 19	4′2″	6"	9"	34"	10"	6"	3 ³ 4"	1'2"	24"	9"	2 ³ 4"	4	³ 32 "	5	3 ₈ "	14 "	34"	2"		4"	1"	1 ⁷ 8"	. ,
	Beam D7 Pier 21	4′2″	6"	9"	34"	10"	6"	3 ³ 4"	1'2"	24"	9"	2'2"	4	³ 32 "	5	3 ₈ "	14 "	34"	2"		4"	1"	1 ⁷ 8"	

		USER NAME = Lin_31	DESIGNED -	REVISED -	BEHAB BEARING DETAILS - LOCAT		F.A.P.	SECTION	COUNTY	TOTAL SHEET
LIN ENGINEERING,LTD.			CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0487	373	2013-040BP	соок	122 70
	Springfield, Illinois		DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. SB-32 OF SB-34 SHEETS				T NO. 60W87
		PLOT DATE = 12/05/2018 2:27:30 PM	CHECKED -	REVISED -		SHEET NU. SB-32 UF SB-34 SHEETS	ILLINOIS FED. AID PROJEC			

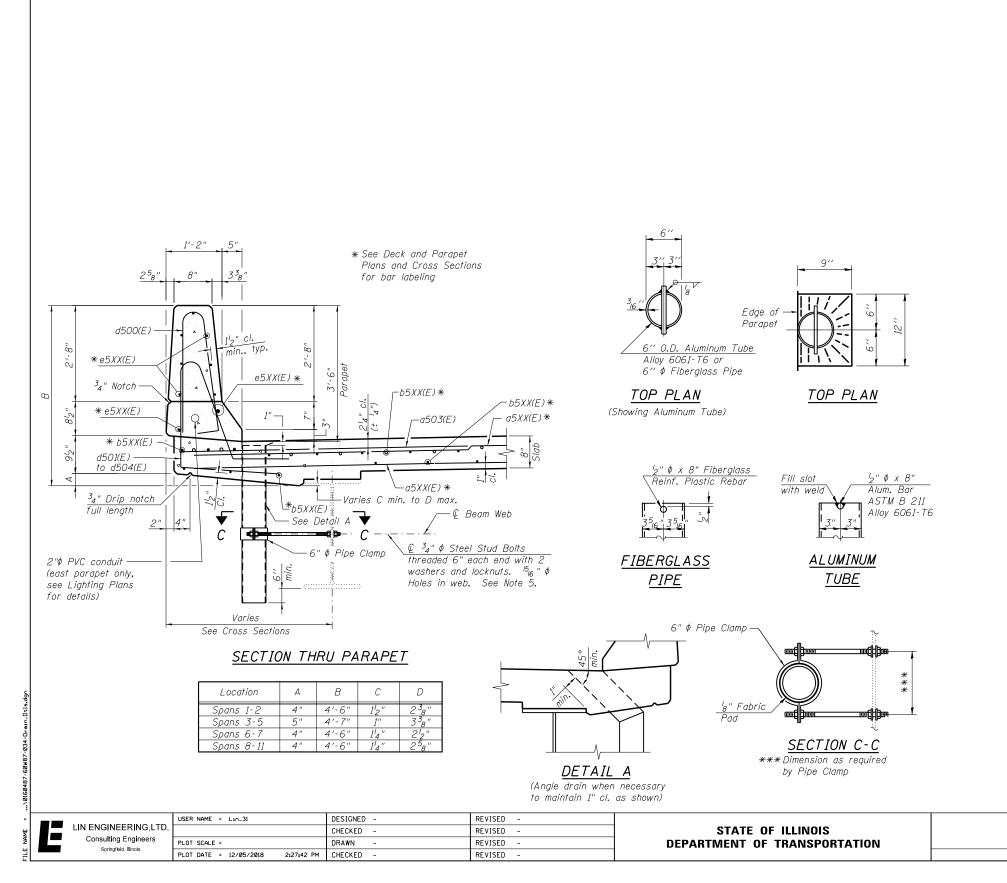
FIXED BEARING

Ζ	
3 ³ 8"	
3 ³ 8"	
4"	
3 ³ 8"	



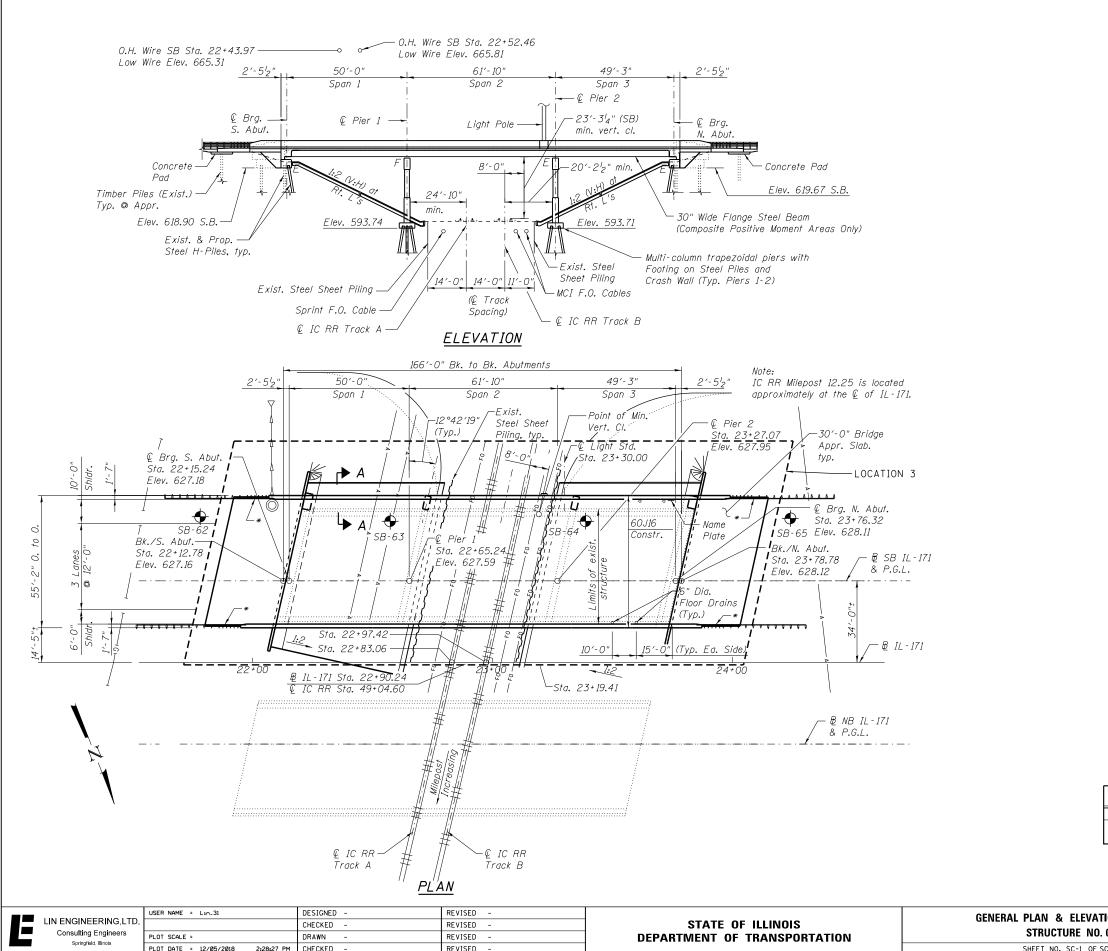
	USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. BEARING DETAILS – LOCATION 2	F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
		CHECKED -	REVISED -	STATE OF ILLINOIS		373	2013-040BP	СООК	122 71
Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 60W87
	PLOT DATE = 12/05/2018 2:27:36 PM	CHECKED -	REVISED -		SHEET NO. SB-33 OF SB-34 SHEETS	ILLINOIS FED. AID PROJECT			

Ρ	Q	R	S	Τ	U	W	γ	Ζ	AA
1'2"	54"	8	⁷ 16 "	7	/ " 8 "	1"	11"	1 ₄ "	6 ⁷ 8"
1"	25 ₈ "	4	3 ₈ "	3	³ 32 "	1"	8"	2³8"	44"
1"	2³4″	5	3 ₁₆ "	4	14 ga.	1"	7"	1'2"	4 ³ 8"
1″	2³4″	5	³ 16 "	4	14 ga.	1"	7"	1'2"	4 ³ 8"



REHAB. DRAIN PIPE DETAIL STRUCTURE NO. (SHEET NO. SB-34 OF SB

AILS – LOCATION 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
. 016–0487	373	2013-040BP	СООК	122	72			
. 010-0407			CONTRACT	NO. 6	0W87			
SB-34 SHEETS	ILLINOIS FED. AID PROJECT							



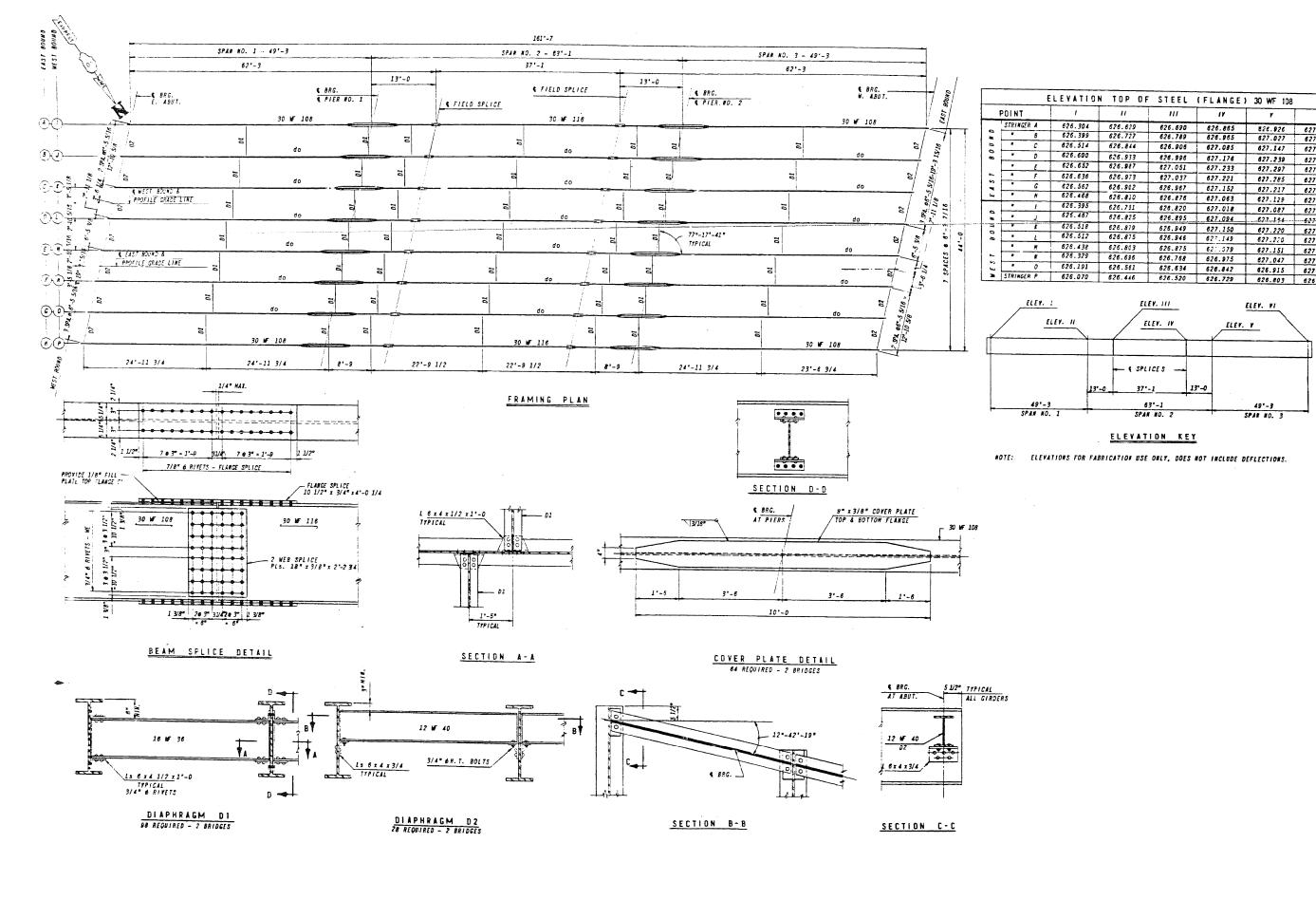
GENERAL NOTES

- 1. THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
- 2. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS. STRUCTURAL SHEETS TAKEN FROM EXISTING PLANS CONTAIN INFORMATION NOT PERTAINING TO THIS CONTRACT AND ARE FOR INFORMATION ONLY.
- 4. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SC-6 THRU SC-10 HAS BEEN PRIMED WITH AN INORGANIC ZINC RICH PRIMER UNDER A PREVIOUS CONTRACT. THESE STEEL SURFACES SHALL BE PRESSURE WASHED CLEAN AND POWER TOOL CLEANED (SSPC SP-3 MODIFIED) AS NECESSARY PRIOR TO THE APPLICATION OF THE INTERMEDIATE AND TOP COATS. THE INORGANIC ZINC RICH PRIMER / ACRYLIC / ACRYLIC PAINT SYSTEM SHALL BE USED FOR FIELD PAINTING OF THESE LOCATIONS. 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, MUNSELL NO. 2.5YR 3/4.
- 5. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SC-2 THRU SC-5 SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THESE LOCATIONS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF THE EPOXY MASTIC / EPOXY MASTIC / ACRYLIC PAINT SYSTEM. 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, MUNSELL NO. 2.5YR 3/4.
- 6. A MINIMUM OF 3 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".
- 7. THE ELASTOMERIC PADS OF THE EXISTING BEARINGS SHALL BE MASKED OFF FOR PROTECTION DURING PAINTING AND REMOVED WHEN PAINTING IS FINISHED. COST INCLUDED WITH "CLEANING AND PAINTING STEEL BRIDGE NO. 3".
- 8. IF APPLICABLE, THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS DEMONSTRATING THE STRUCTURAL INTEGRITY OF THE BRIDGE IS MAINTAINED UNDER THE ADDITIONAL IMPOSED LOADS OF THE CONTAINMENT SYSTEM. SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
CLEANING AND PAINTING STEEL BRIDGE NO. 3	L. SUM	1
CONTAINMENT AND DISPOSAL OF LEAD PAINT	L. SUM	1
CLEANING RESIDUES NO. 3		

ON – LOCATION 3		F.A.P. SECTION		TOTAL SHEETS	SHEET NO.
016-0488	373	2013-040BP	СООК	122	73
010-0400			CONTRACT	NO. 6	OW87
C-10 SHEETS		ILLINOIS FED. AI	D PROJECT		



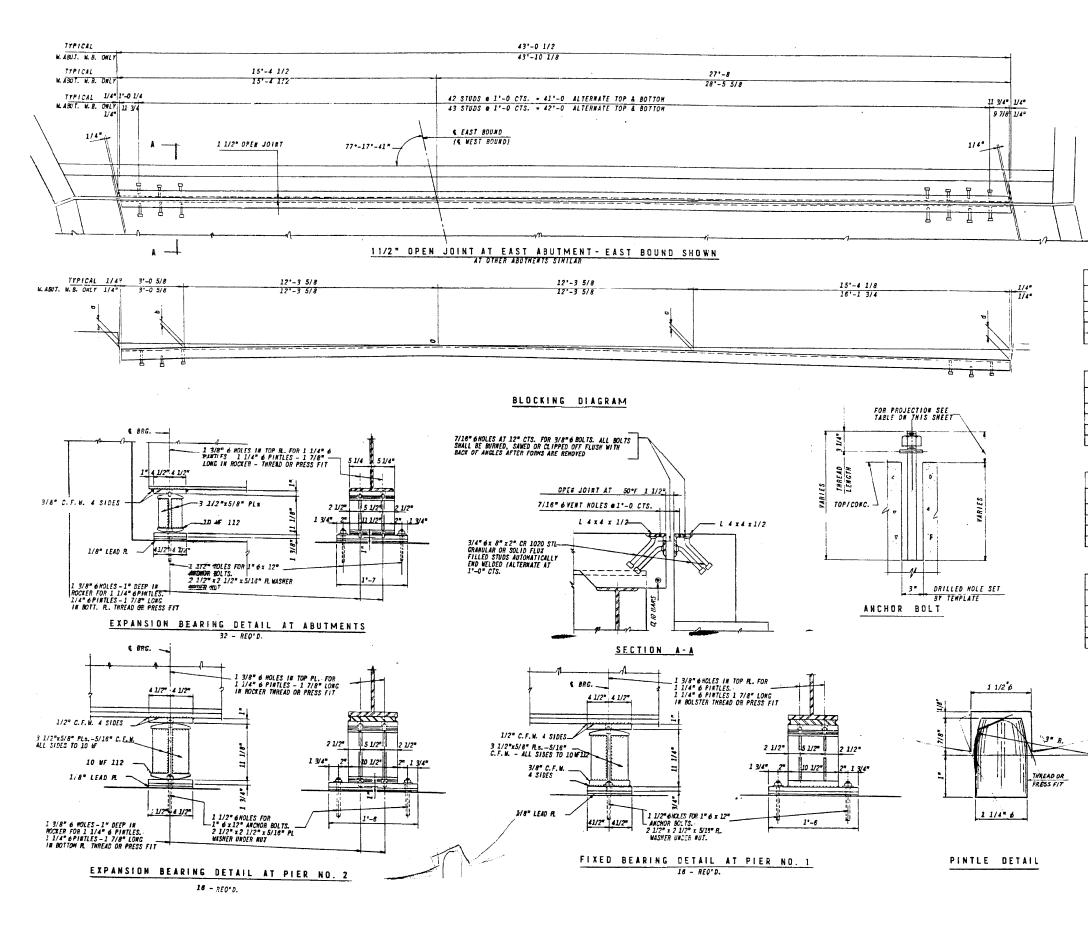
DESIGNED -REVISED -USER NAME = Lin_31 ORIG. STEEL DETAILS LIN ENGINEERING, LTD. STATE OF ILLINOIS CHECKED -REVISED -L Consulting Engineers PLOT SCALE = DRAWN REVISED **DEPARTMENT OF TRANSPORTATION** Springfield, Illinois REVISED PLOT DATE = 12/05/2018 2:28:33 PM CHECKED -

	ELEVATION	TOP OF	STEEL	(FLANGE	30 WF 108	
_	1	11	111	17	۲	¥1
ER A	626.304	626.629	626.890	826.865	826.926	627.065
B	626.399	626.727	626.789	626.985	627.027	627.162
С	626.514	626.844	626.906	627.085	627.147	627.291
Ď	626.600	626.933	626.995	627.176	827.239	627.385
E	626.652	626.987	827.051	627.233	627.297	627.445
F	626.636	626.973	627.037	627.221	627.285	627.436
G	626.562	626.902	626.967	627.152	627.217	627.370
H	626.468	626.810	626.875	627.063	627.129	627.284
1	626.395	626.751	626.820	627.018	627.087	627.256
J	626.467	626.825	826.895	627.094	622.154	627.335
1	626.518	626.879	626.949	627.150	627.220	627.394
L	626.512	626.875	626.946	627.149	627.220	627.396
H	626.438	626.803	626.875	62:.079	627.151	627.329
K	626.329	626.635	626.768	626.975	627.047	627.228
0	626.191	626.561	626.634	626.842	626.915	627.098
ER P	626.070	626.446	626.520	626.729	626.803	626.988

					I
– LOCATION 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 016–0488	373	2013-040BP	СООК	122	74
. 010-0400			CONTRACT	NO. 6	0W87
SC-10 SHEETS	ILLINOIS FED. AID PROJECT				

STRUCTURE NO.

SHEET NO. SC-2 OF S



LIN ENGINEERING, LTD. Consulting Engineers Sorinafield Illinois	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. BEARING DETAILS – LOCATION 3	F.A.P.	SECTION	COUNTY TOTA	L SHEET	
		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0488	373	2013-040BP	СООК 122	75	
	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 010-0400			CONTRACT NO.	60W87	
		PLOT DATE = 12/05/2018 2:29:09 PM	CHECKED -	REVISED -	SHEET NO. SC-3 OF SC-10 SHEETS			ILLINOIS FED. AI	D PROJECT	

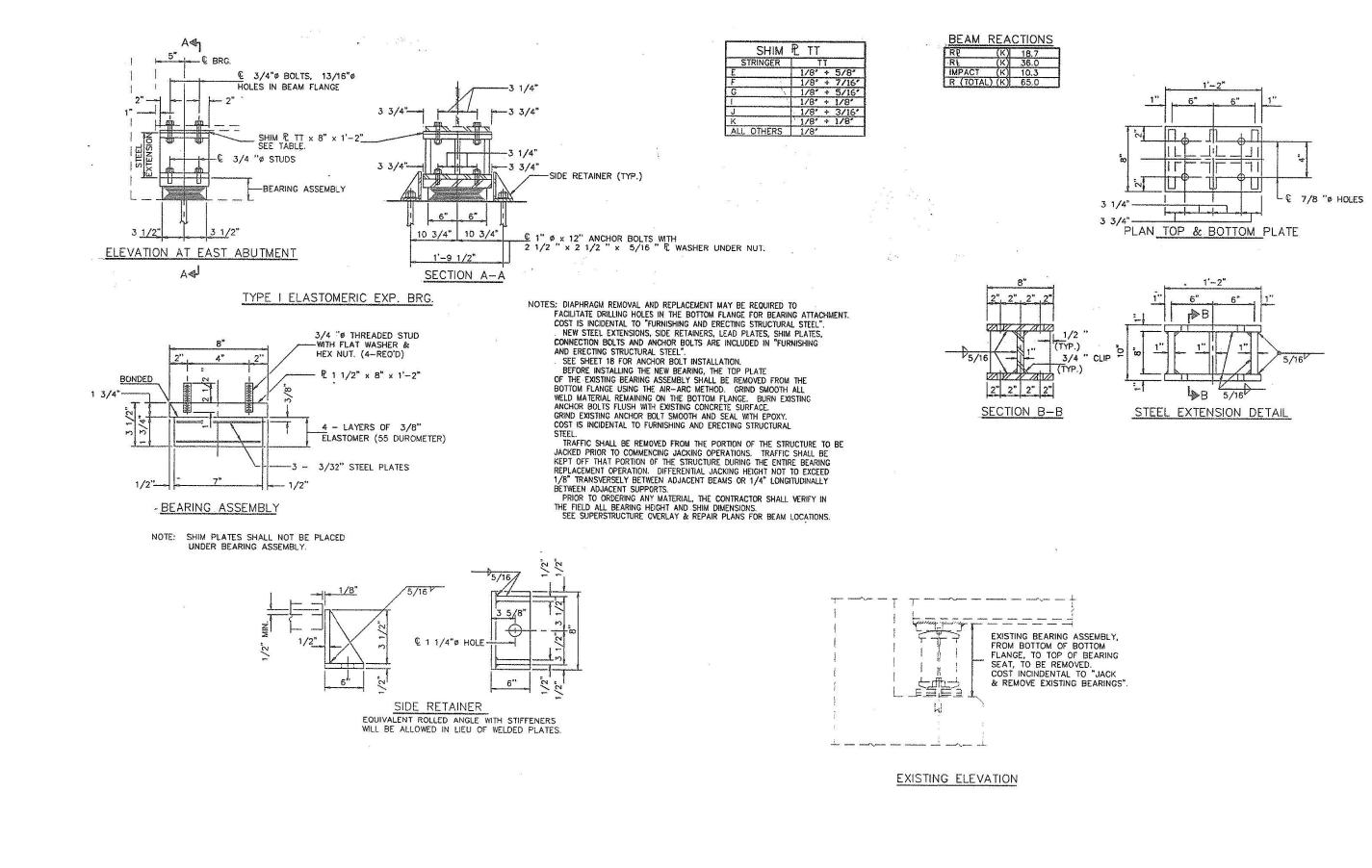
1 1/2" OPEN JOINT BLOCKING									
	LOC		a	6	c	đ			
EAST	ABU.T.	E. B.	2 1/2"	1 11/16"	1 3/16*	4 1/2"			
WEST	ABUT.	E. B.	2 1/4=	1 1/2"	1 3/8"	4 7/8"			
EAST	ABUT.	W. B.	1 13/16*	1 3/16*	1 11/16*	5 5/8"			
WEST	ABUT.	W. B.	2 1/16*	1 3/8"	1 1/2*	5 7/16"			

SHIM	PLATES	THI CKN	ESS -	EAST I	BOUND	(INC	H)	
LOCATION	4	8	C	D	E	F	6	
EAST ABUT.	-	-	- 1		5/8*	7/16*	5/16*	-
PIER NO. 1	-	-	-		5/8*	1/2*	3/8"	-
PIER NO. 2	-	-	-	-	11/16*	9/16*	1/2*	3/16"
WEST ABO.T.	-	-	-	-	3/4"	5/8*	9/16*	5/16*

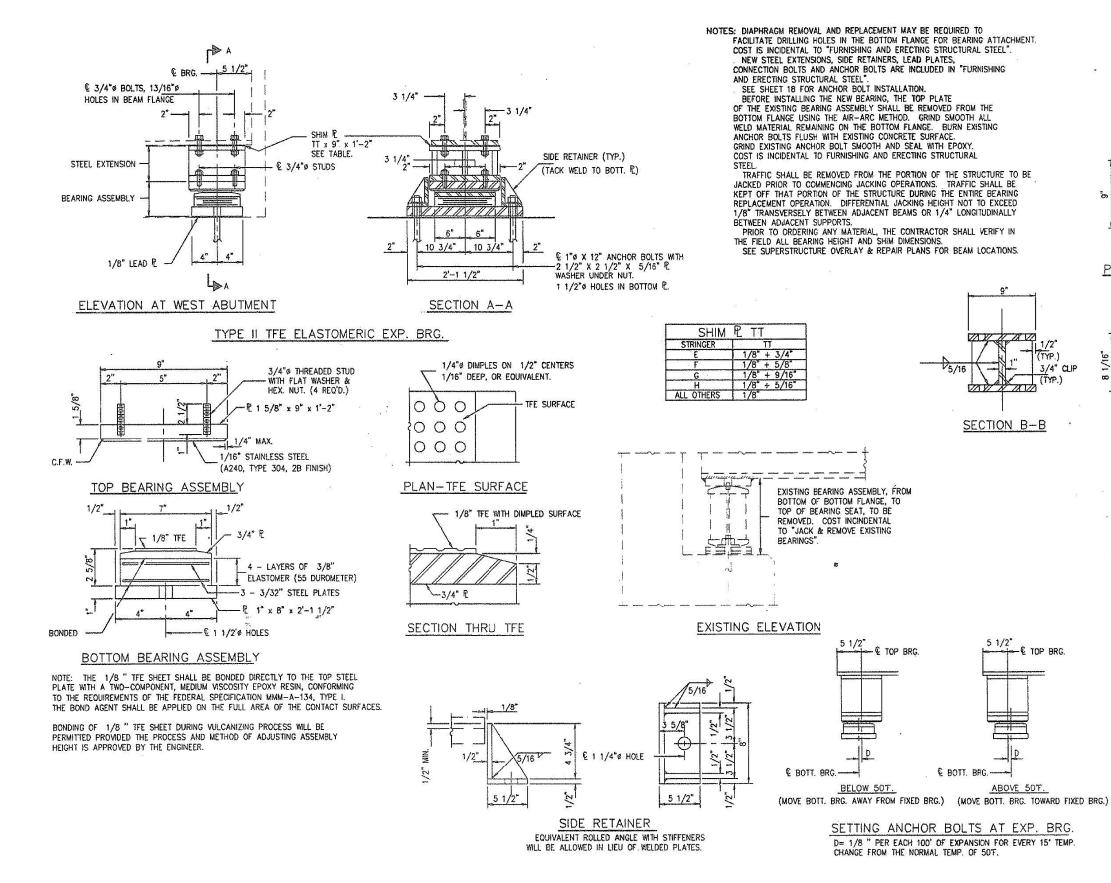
SHIM	PLATES	THICKN	ESS - W	EST E	OUND	(INCH)	
LOCATION	1	J	z	L	N	1.	0	P
EAST ABUT.	1/8"	3/16*	1/8"	-	-	- 1	•	-
PIER NO. 1	-	3/16*	1/8"	-	-	- 1	-	-
PIER NO. 2	-	1/8"	-	-	-	- 1	-	-
WEST ABU.T.	-	T -	-	-	-	- 1	-	-

ANCHOR	BOLT P	ROJECT	ION -	EAST	BOUND	(INCH	}	
LOCATION	4	B	C	D	E	F	6	1
EAST ABUT.	3"	3•	3"	3*	3 5/8	3 1/2"	3 3/8=	3=
PIER NO. 1	2 3/8"	2 3/8"	2 3/8"	2 3/8"	3*	2 7/8"	2 3/4"	2 3/8"
PIER NO. 2	3 3/8"	3 3/8"	3 3/8*	3 3/8*		4"	3 7/8*	3 5/8"
WEST ABUT.	3*	3"	3"	3*	3 3/4*	3 5/8"	3 5/8	3 3/8"

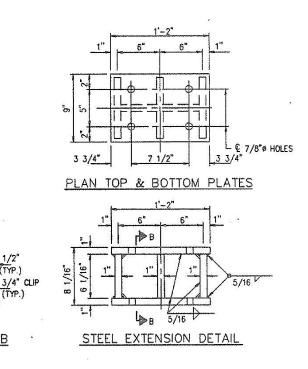
ANCHOR	BOLT P	ROJECT	ION -	WEST	BOUND	(INCH)		
LOCATION	1	J	ĸ	L	H	-	D	•
EAST ABUT.	3 1/8"	3 1/4"	3 1/8"	3"	3"	3"	3*	31
PIER NO. 1	2 3/8"	2 5/8"	2 1/2*	2 3/8"	2 3/8"	2 3/8"	2 3/8*	2 3/8"
PIER NO. 2	3 3/8"	3 1/2"	3 3/8"	3 3/8"	3 3/8"	3 3/8*	3 3/8"	3 3/8"
WEST ABUT.	3*	3"	3.	3"	3"	3"	3"	3*



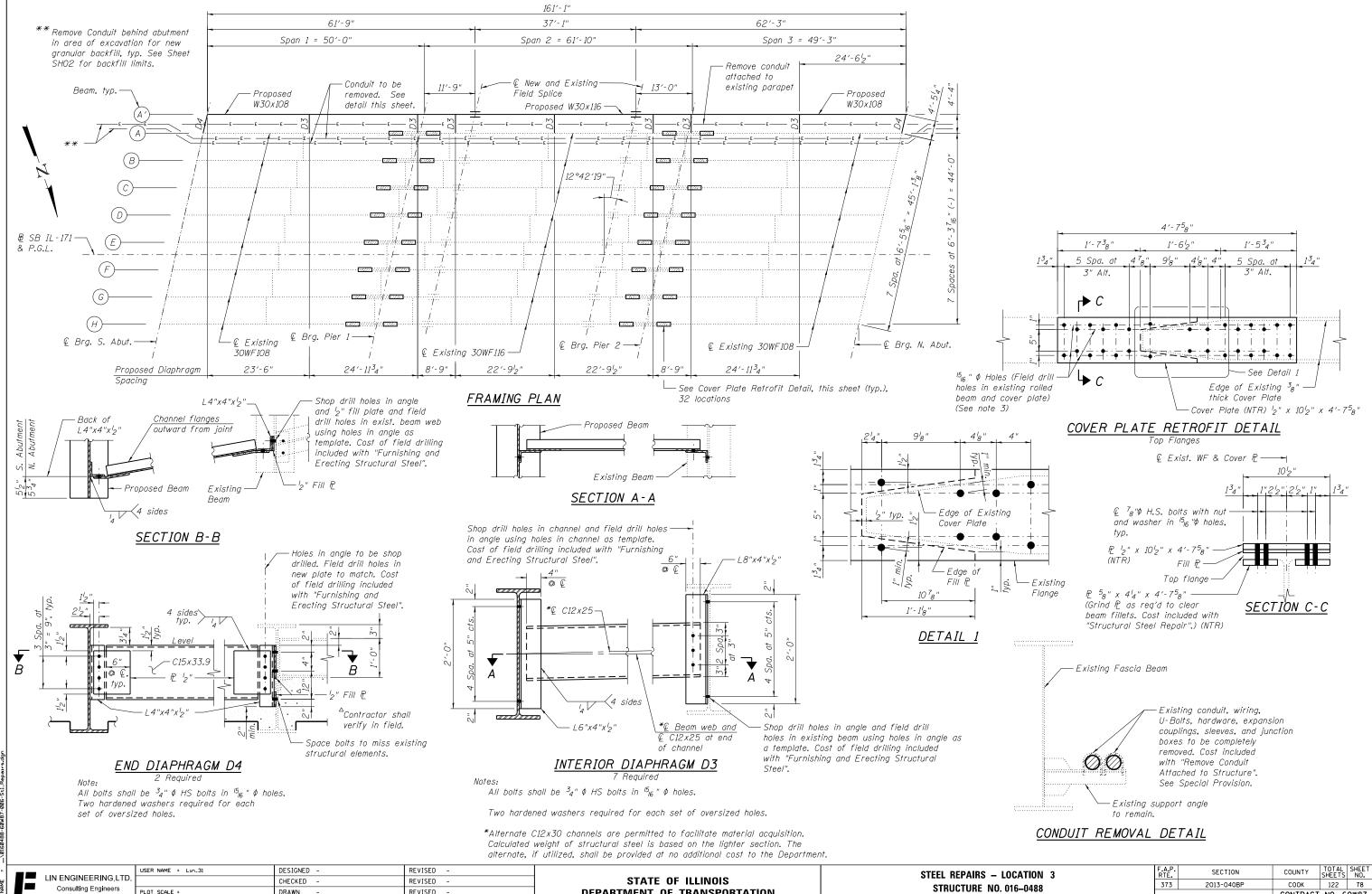
		USER NAME = Lin_31	DESIGNED -	REVISED -		BEARING REPLACEMENT DETAILS - LOCATION 3	F.A.P.	SECTION	COUNTY	TOTAL SHEET
		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0488	373	2013-040BP	СООК	122 76	
	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 60W87	
		PLOT DATE = 12/05/2018 2:29:44 PM	CHECKED -	REVISED -		SHEET NO. SC-4 OF SC-10 SHEETS		ILLINOIS FED. AII	D PROJECT	



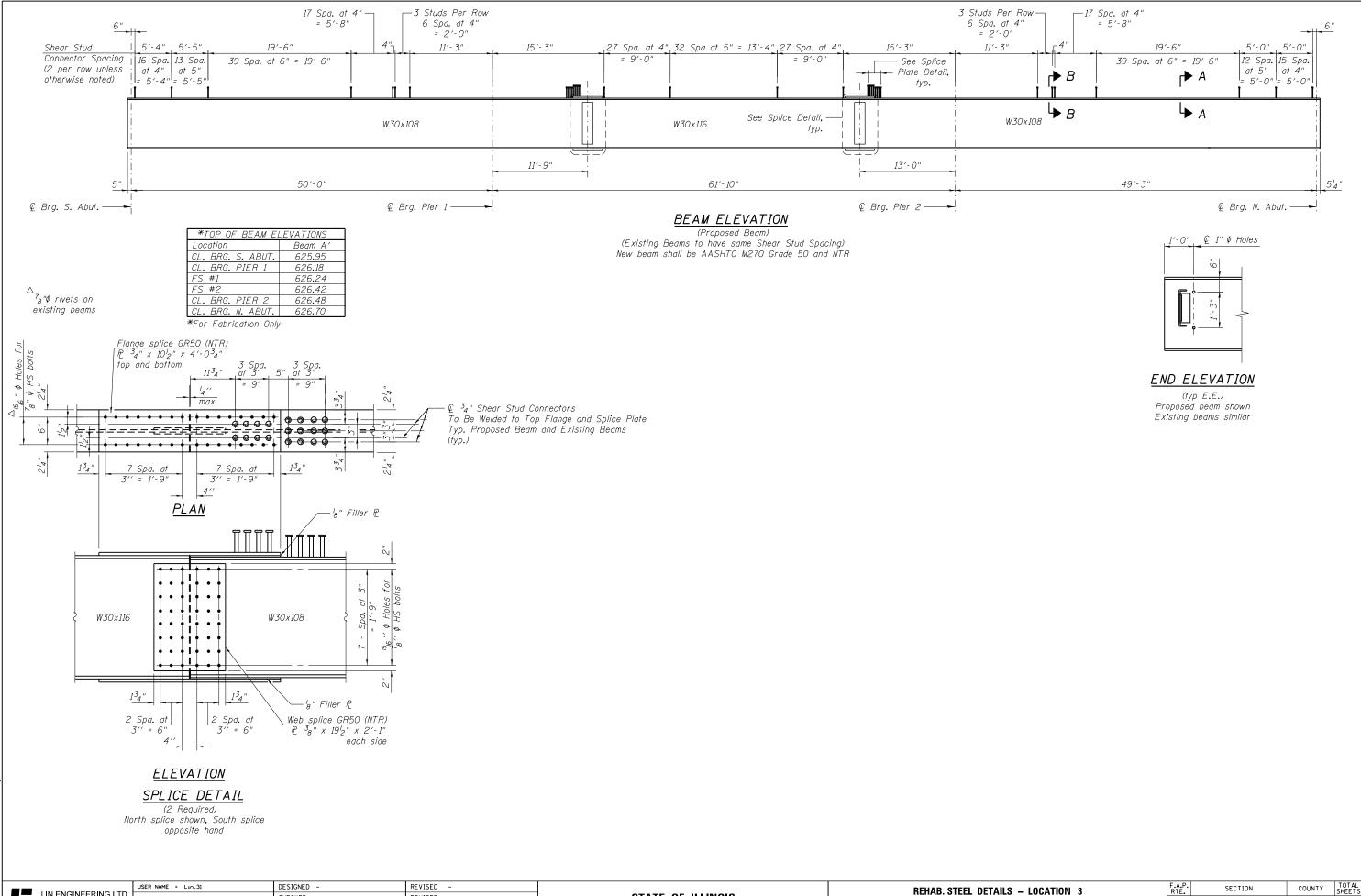
REARING REPLACEMENT DETAILS - LOCATION 3	.A.P. SECTION COUNTY TOT	AL SHEET	
	373 2013-040BP COOK 12	2 77	
STRUCTURE NU. 016–0488		. 60W87	
SHEET NO. SC-5 OF SC-10 SHEETS	ILLINOIS FED. AID PROJECT		
	BEARING REPLACEMENT DETAILS – LOCATION 3 STRUCTURE NO. 016–0488	STRUCTURE NO. 016–0488 CONTRACT NO	



BEAM	REACTIONS				
RP	(K)	18.7			
RŁ	(K)	36.0			
IMP.	(K)	10.3			
R (TOTAL)	(K)	65.0			



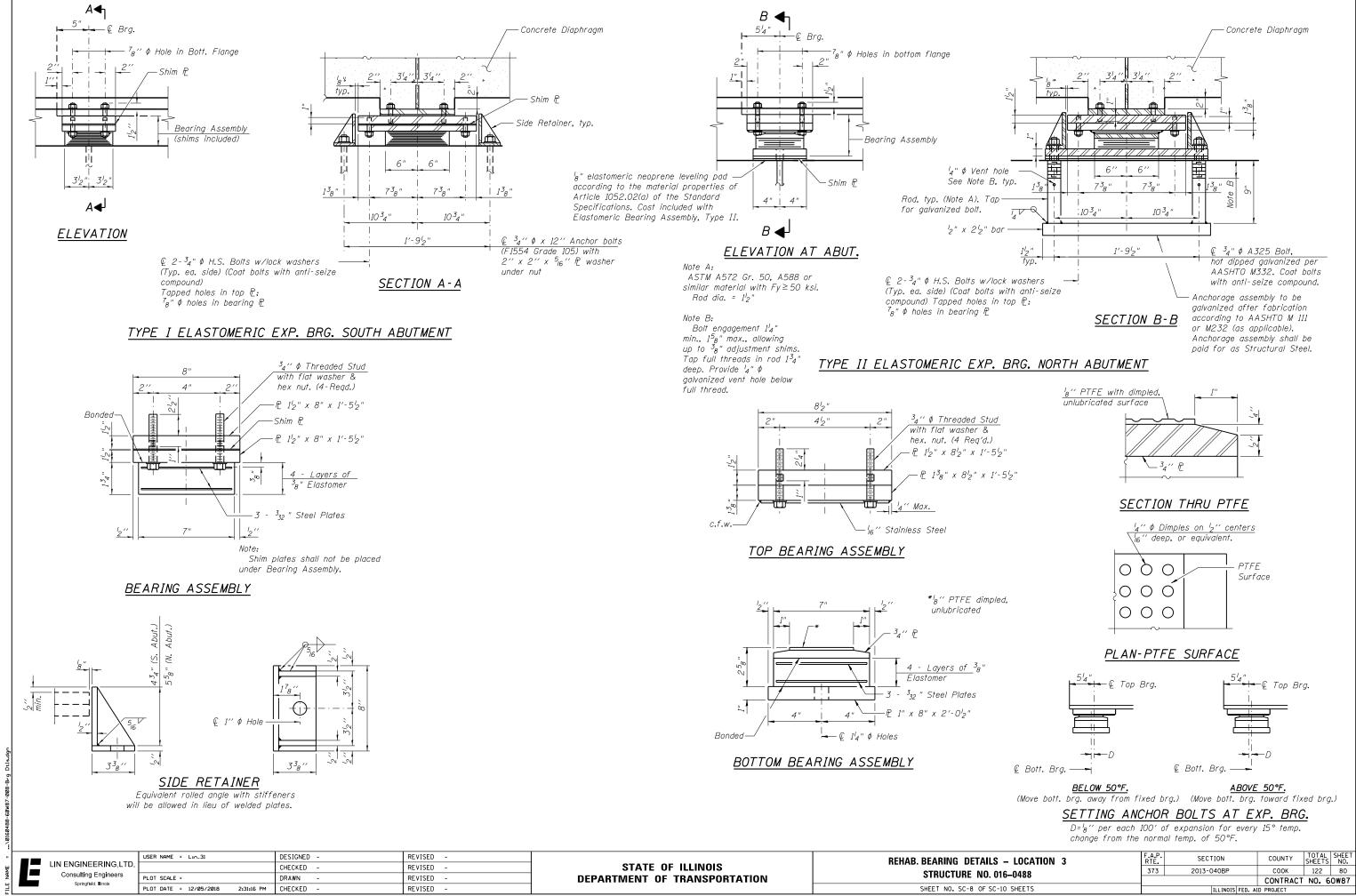
"		USER NAME = Lin_31	DESIGNED -	REVISED -		STEEL REPAIRS – LOCATION 3	F.A.P.	SECTION	COUNTY	TOTAL SH	HEET
Ψ	LIN ENGINEERING,LID.		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0488	373	2013-040BP	СООК	122	78
ž	Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 010-0400					187
	Opringheid, minora	PLOT DATE = 12/05/2018 2:31:04 PM	CHECKED -	REVISED -		SHEET NO. SC-6 OF SC-10 SHEETS		RTE. SECTION COUNTY SHEET NO.	ILLINOIS FED. AID PROJECT		



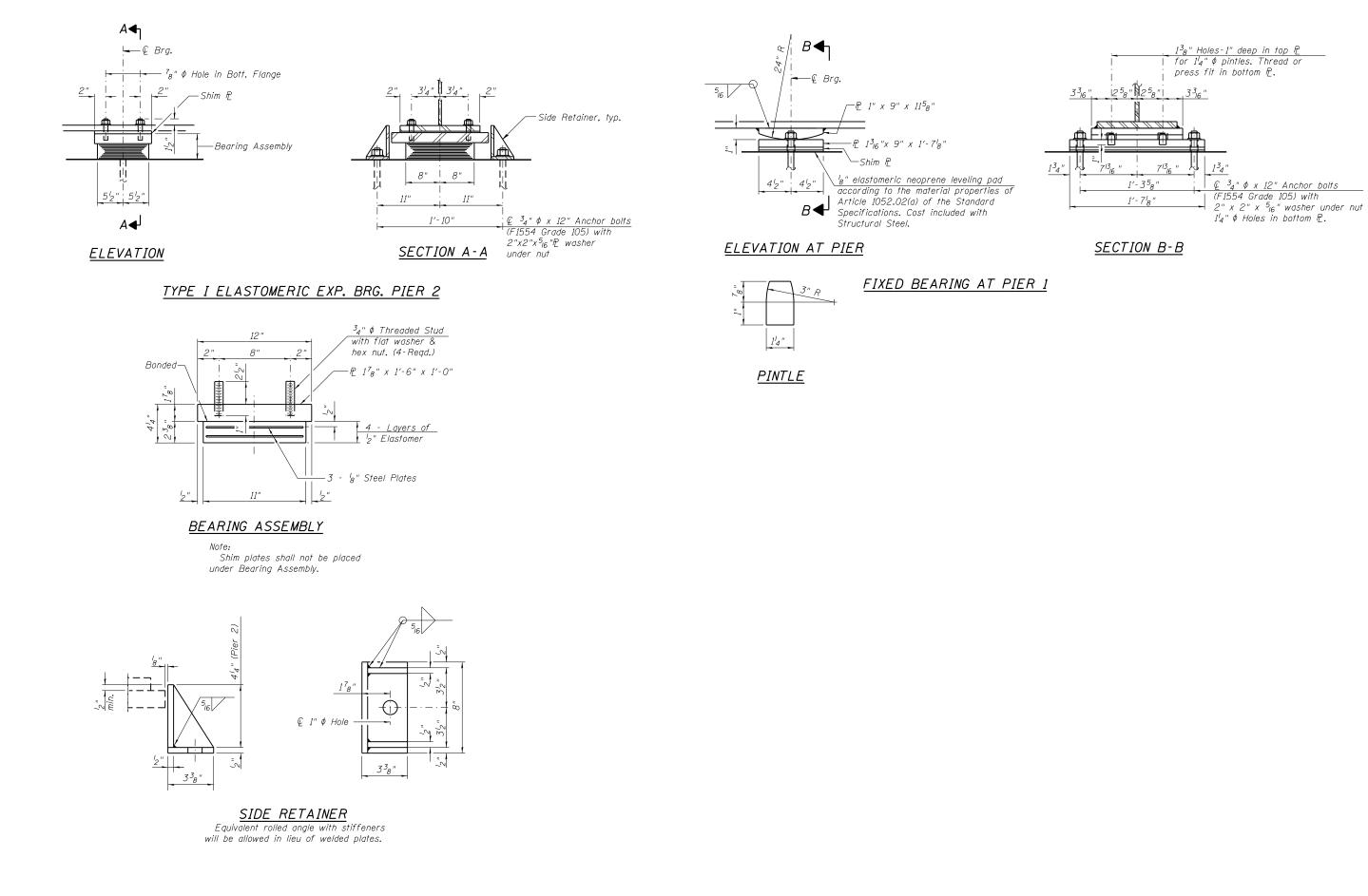
LIN ENGINEERING, LTD. STATE OF ILLINOIS CHECKED -REVISED -Consulting Engineers PLOT SCALE = DRAWN REVISED **DEPARTMENT OF TRANSPORTATION** Springfield, Illinois PLOT DATE = 12/05/2018 2:31:10 PM CHECKED -REVISED -

L

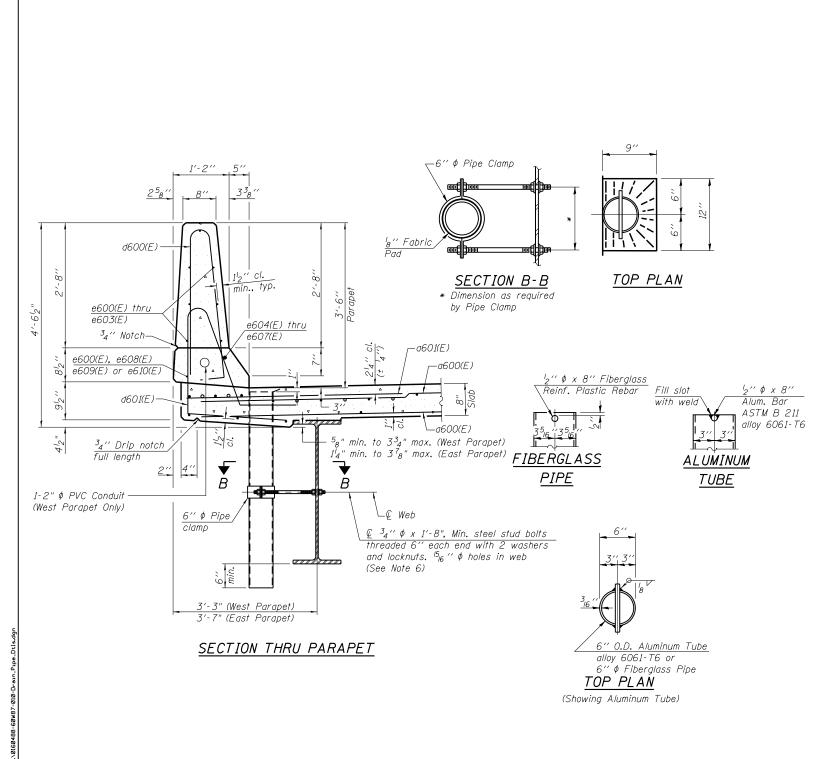
					I
– LOCATION 3	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016-0488	373 2013-040BP		СООК	122	79
010-0400			CONTRACT	NO. 6	0W87
-10 SHEETS ILLINOIS FED. AID PROJECT					



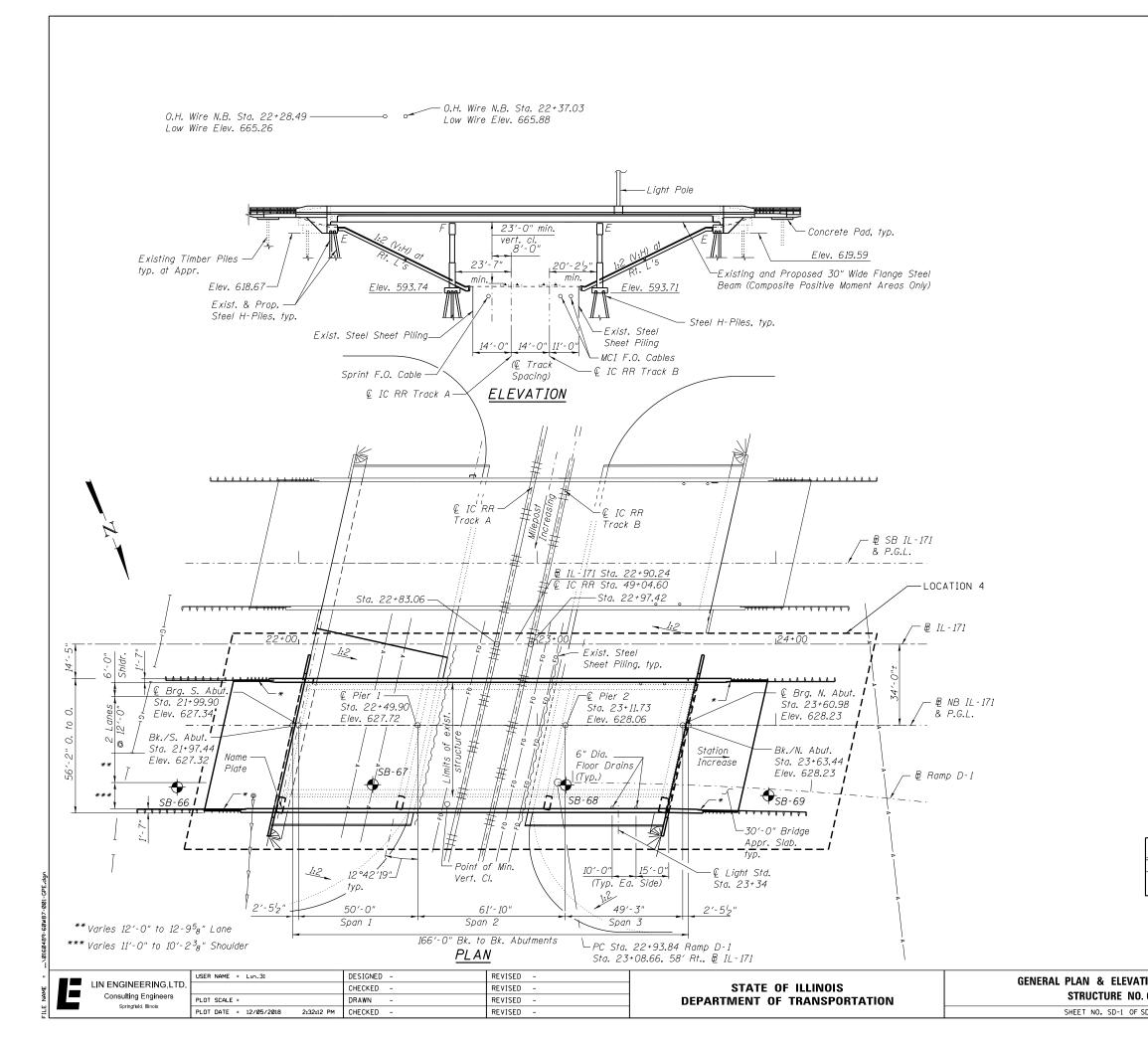
	— —	USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. BEARING DETAILS
Į.			CHECKED -	REVISED -	STATE OF ILLINOIS	
E	Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 01
Ľ	Springheid, minois	PLOT DATE = 12/05/2018 2:31:16 PM	CHECKED -	REVISED -		SHEET NO. SC-8 OF SC-10



	USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. BEARING DETAILS - LOCATION 3	F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
Consulting Engineers		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–0488	373	2013-040BP	СООК	122 81
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	T NO. 60W87
	PLOT DATE = 12/05/2018 2:31:21 PM	CHECKED -	REVISED -		SHEET NO. SC-9 OF SC-10 SHEETS		ILLINOIS FED. AI	D PROJECT	



"		USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. DRAIN PIPE DETAILS – LOCATION 3	F.A.P. SECTION	COUNTY TOTAL SHEET
Ψ			CHECKED -	REVISED -	STATE OF ILLINOIS		373 2013-040BP	COOK 122 82
R	Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–0488		CONTRACT NO. 60W87
ËL		PLOT DATE = 12/05/2018 2:31:27 PM	CHECKED -	REVISED -		SHEET NO. SC-10 OF SC-10 SHEETS	ILLINOIS FED. A	AID PROJECT



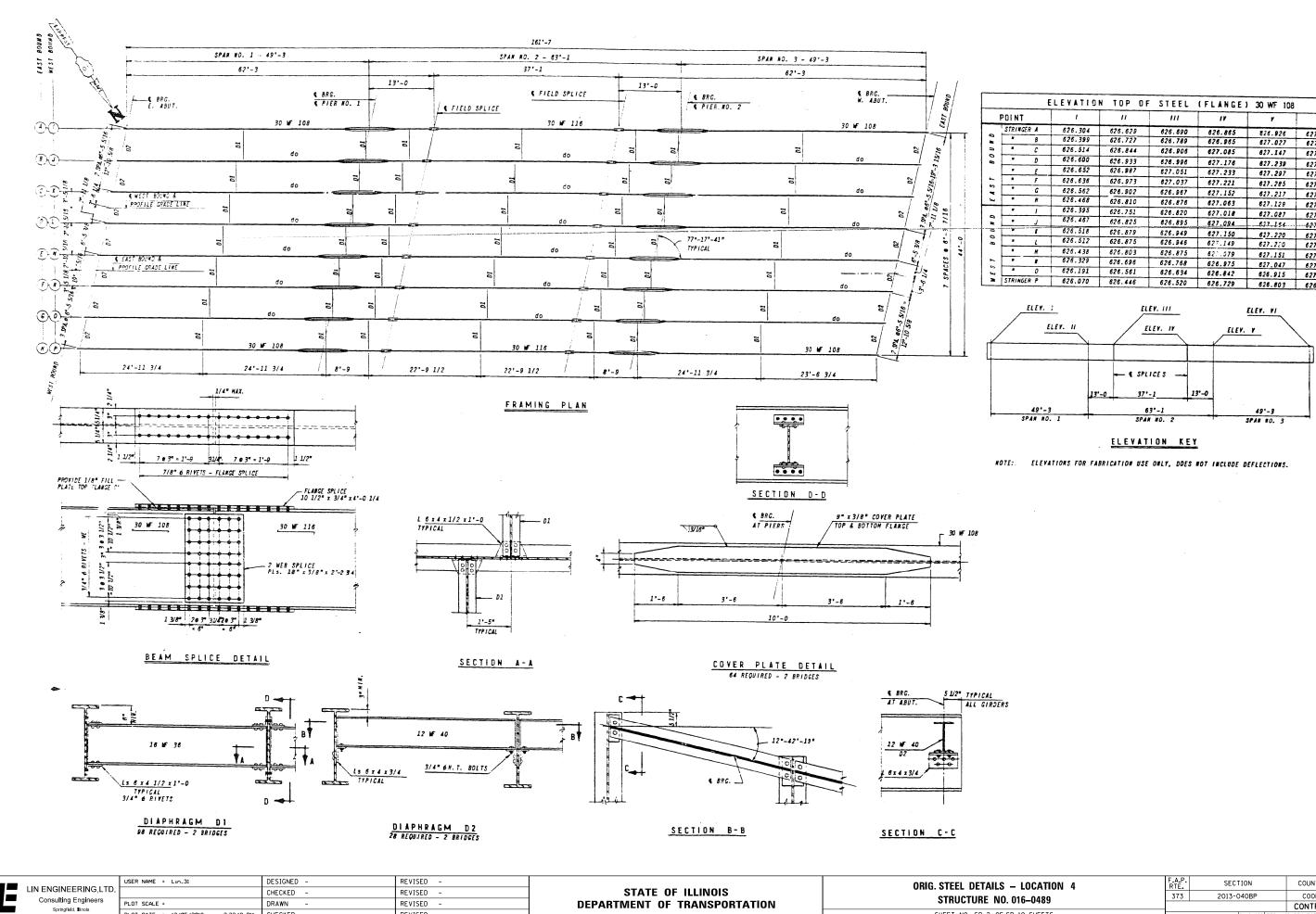
GENERAL NOTES

- 1. THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
- 2. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS. STRUCTURAL SHEETS TAKEN FROM EXISTING PLANS CONTAIN INFORMATION NOT PERTAINING TO THIS CONTRACT AND ARE FOR INFORMATION ONLY.
- 4. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SD-6 THRU SD-10 HAS BEEN PRIMED WITH AN INORGANIC ZINC RICH PRIMER UNDER A PREVIOUS CONTRACT. THESE STEEL SURFACES SHALL BE PRESSURE WASHED CLEAN AND POWER TOOL CLEANED (SSPC SP-3 MODIFIED) AS NECESSARY PRIOR TO THE APPLICATION OF THE INTERMEDIATE AND TOP COATS. THE INORGANIC ZINC RICH PRIMER / ACRYLIC / ACRYLIC PAINT SYSTEM SHALL BE USED FOR FIELD PAINTING OF THESE LOCATIONS. 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, MUNSELL NO. 2.5YR 3/4.
- 5. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SD-2 THRU SD-5 SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SPI0. THESE LOCATIONS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF THE EPOXY MASTIC / EPOXY MASTIC / ACRYLIC PAINT SYSTEM. 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, MUNSELL NO. 2.5YR 3/4.
- 6. A MINIMUM OF 3 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".
- 7. THE ELASTOMERIC PADS OF THE EXISTING BEARINGS SHALL BE MASKED OFF FOR PROTECTION DURING PAINTING AND REMOVED WHEN PAINTING IS FINISHED. COST INCLUDED WITH "CLEANING AND PAINTING STEEL BRIDGE NO. 4".
- 8. IF APPLICABLE, THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS DEMONSTRATING THE STRUCTURAL INTEGRITY OF THE BRIDGE IS MAINTAINED UNDER THE ADDITIONAL IMPOSED LOADS OF THE CONTAINMENT SYSTEM. SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
CLEANING AND PAINTING STEEL BRIDGE NO. 4	L. SUM	1
CONTAINMENT AND DISPOSAL OF LEAD PAINT	L. SUM	1
CLEANING RESIDUES NO. 4		

ION – LOCATION 4		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016-0489	373 2013-040BP		СООК	122	83
010-0405			CONTRACT	NO. 6	OW87
D-10 SHEETS	373 2013-040BP COOK 122 83				

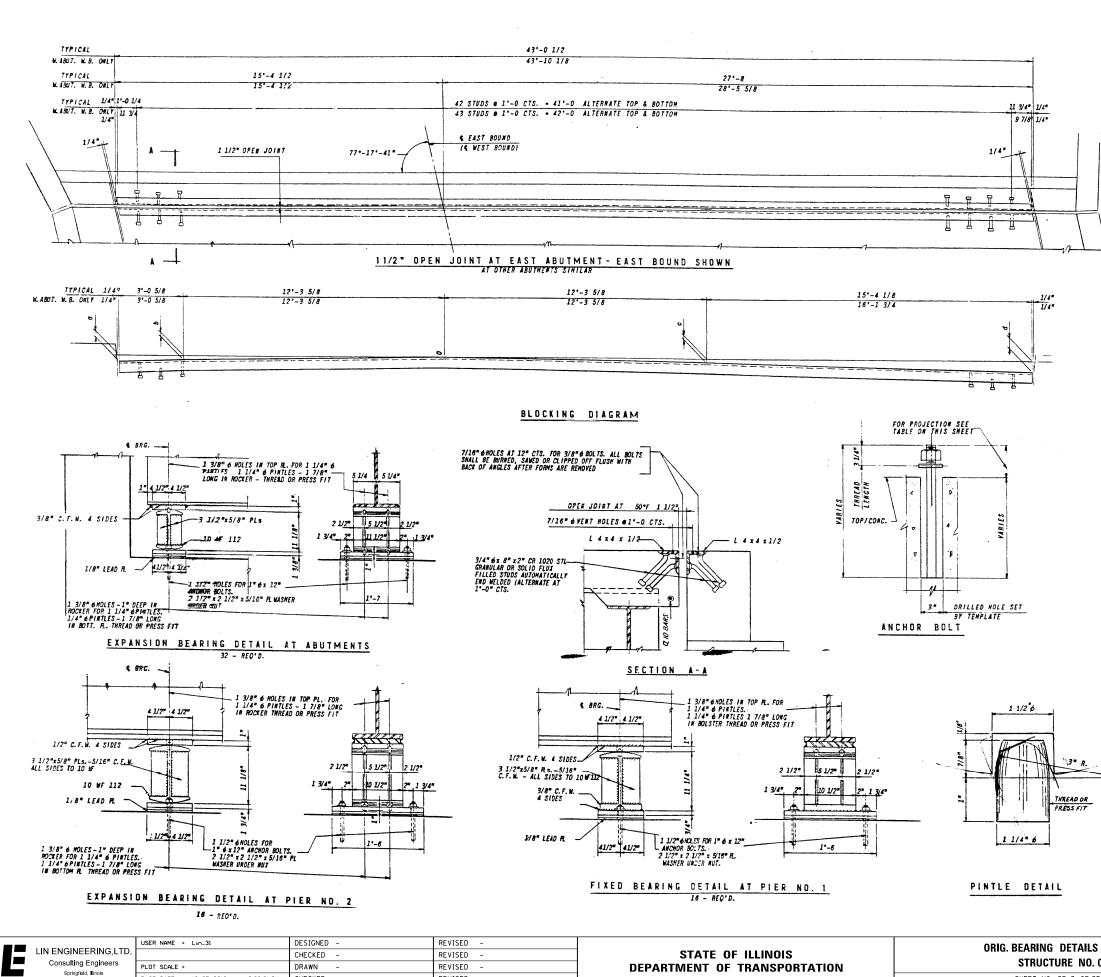


REVISED

SHEET NO. SD-2 OF S

		ELEVATION	TOP OF	STEEL	(FLANGE)	30 WF 108	
INT		1	11		11	٢	¥1
TRINGER	A	626.304	626.629	626.690	626.865	826.926	627.065
	B	626.399	626.727	626.789	626.965	627.027	627.162
	С	626.514	626.844	626.906	627.085	627.147	627.291
*	D	626.600	626.933	626.996	627.176	627.239	627.385
	E	626.652	626.987	627.051	627.233	627.297	627.445
	F	626.636	626.973	627.037	627.221	627.285	627.436
*	G	626.562	626.902	626.967	627.152	627.217	627.370
*	H	626.468	626.810	626.875	627.063	627.129	627.284
	1	626.395	626.751	626.820	627.018	627.087	627.256
	J	626.467	626.825	826.895	627.094	627 154	627.335
*	1	626.518	626.879	626.949	627.150	627.220	627.394
-	L	626.512	626.875	626.946	627.149	627.220	627.396
	M	626.438	626.803	626.875	62:.079	627.151	627.329
*	K	626.329	626.695	626.768	626.975	627.047	627.228
	0	626.191	626.561	626.634	626.842	626.915	627.098
TRINGER	P	626.070	626.446	626.520	626.729	626.803	626.988

- LOCATION 4 .016-0489 SD-10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	373	2013-040BP	СООК	122	84	
. 010-0403	CONTRACT NO. 60W87					
SD-10 SHEETS	ILLINOIS FED. AID PROJECT					



REVISED

SHEET NO. SD-3 OF SE

	1 1/2" OPEN JOINT BLOCKING									
	LOCA	T I O #	a	ь	c	đ				
EAST	ABU.T.	E. B.	2 1/2*	1 11/16"	1 3/16*	4 1/2"				
WEST	ABU.T.	E. B.	2 1/4=	1 1/2"	1 3/8"	4 7/8"				
EAST	ABUT.	W. B.	1 13/16*	1 3/16*	1 11/16*	5 5/8"				
WEST	ABUT.	W. B.	2 1/16*	1 3/8"	1 1/2"	5 7/16*				

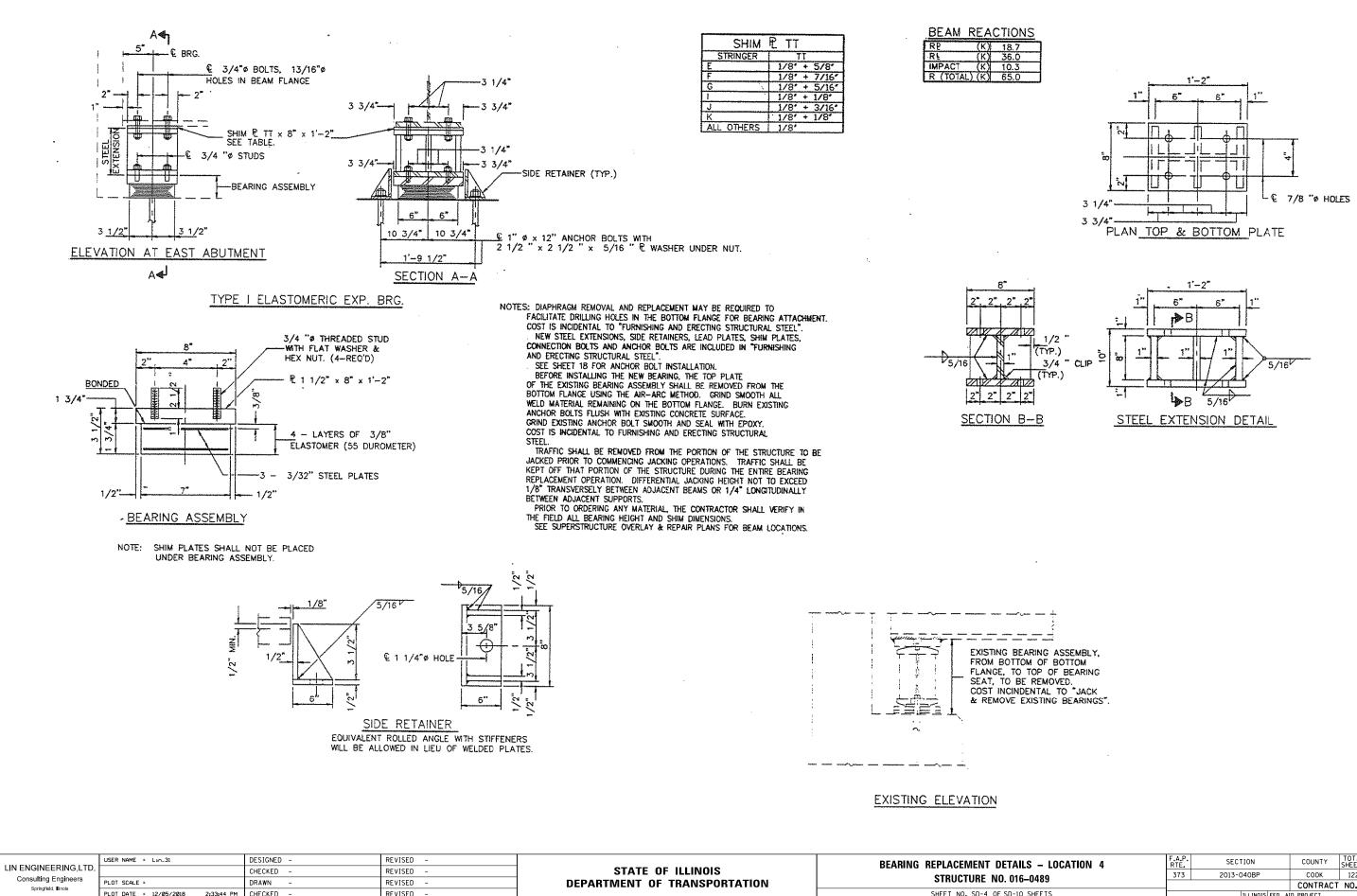
SHIM PLATES THICKNESS - EAST BOUND (INCH)										
LOCATION	A	8	C	D	E	F	6			
EAST ABUT.	-	-	-	-	5/8"	7/16*	5/16*	-		
PIER NO. 1	-	-	-		5/8"	1/2*	3/8"	-		
PIER NO. 2	-	-	-	- 1	11/16*	9/16"	1/2"	3/16*		
WEST ABU.T.	-	-	-	-	3/4"	5/8"	9/16*	5/16*		

SHIM PLATES THICKNESS - WEST BOUND (INCH)										
LOCATION	1	J	E	L	N	1.	0	,		
EAST ABUT.	1/8".	3/16*	1/8"	-	-	- 1	•	-		
PIER NO. 1	-	3/16*	1/8"	-	-	- 1	-	-		
PIER NO. 2	-	1/8"	-	-	-	- 1	-			
WEST ABU.T.	-	- 1	-	-	-	- 1	-	-		

ANCHOR BOLT PROJECTION - EAST BOUND (INCH)										
LOCATION	A	B	C	D	E	F	6			
EAST ABUT.	3"	3"	3"	3*	3 5/8-	3 1/2"	3 3/8=	3.		
PIER NO. 1	2 3/8"	2 3/8"	2 3/8"	2 3/8"	3*	2 7/8"	2 3/4"	2 3/8"		
PIER NO. 2	3 3/8"	3 3/8"	3 3/8"	3 3/8"		4.	3 7/8*	3 5/8*		
WEST ABU.T.	3*	3"	3"	3"	3 3/4"	3 5/8"	3 5/8	3 3/8		

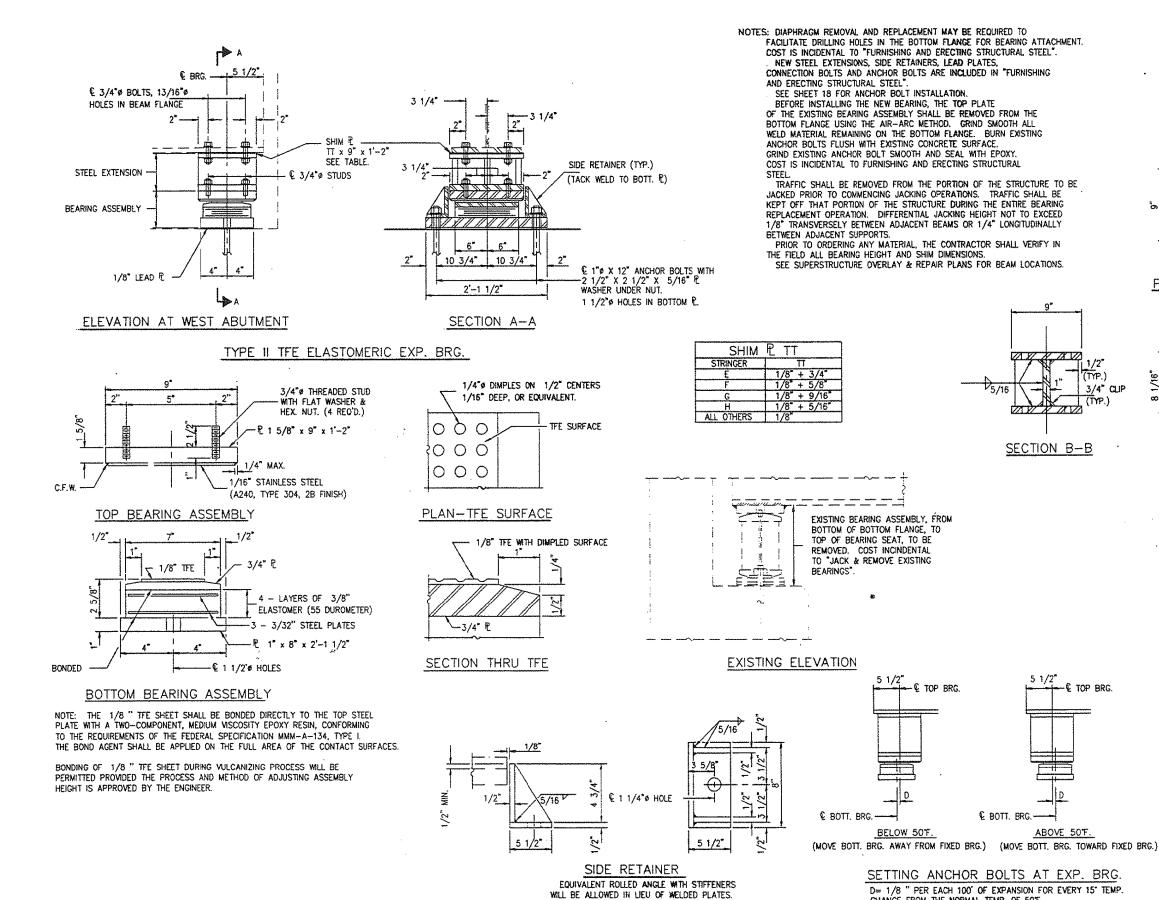
ANCHOR	BOLT P	ROJECT	10N -	WEST	BOUND	(INCH)		
LOCATION	1	J	x	L	M		0	•
EAST ABUT.	3 1/8"	3 1/4"	3 1/8"	3"	3"	3"	3*	3.
PIER NO. 1	2 3/8"	2 5/8"	2 1/2*	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8
PIER NO. 2	3 3/8"	3 1/2"	3 3/8*	3 3/8"	3 3/8"	3 3/8"	3 3/8"	3 3/8"
WEST ABUT.	3*	3"	3"	3"	3"	3"	3"	3*

– LOCATION 4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016-0489	373	2013-040BP	СООК	122	85
010-0405			CONTRACT	NO. 6	0W87
D-10 SHEETS		ILLINOIS FED. A	D PROJECT		



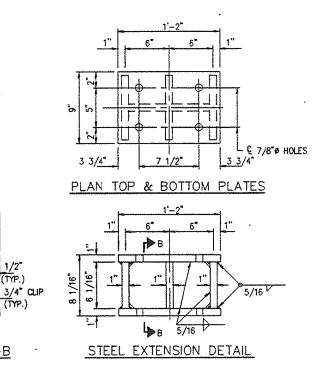
SHEET NO. SD-4 OF S

TAILS – LOCATION 4		F.A.P. SECTION		TOTAL SHEETS	SHEET NO.		
. 016–0489	373	2013-040BP	СООК	122	86		
. 010-0403			CONTRACT	NO. 6	0W87		
SD-10 SHEETS	ILLINOIS FED. AID PROJECT						



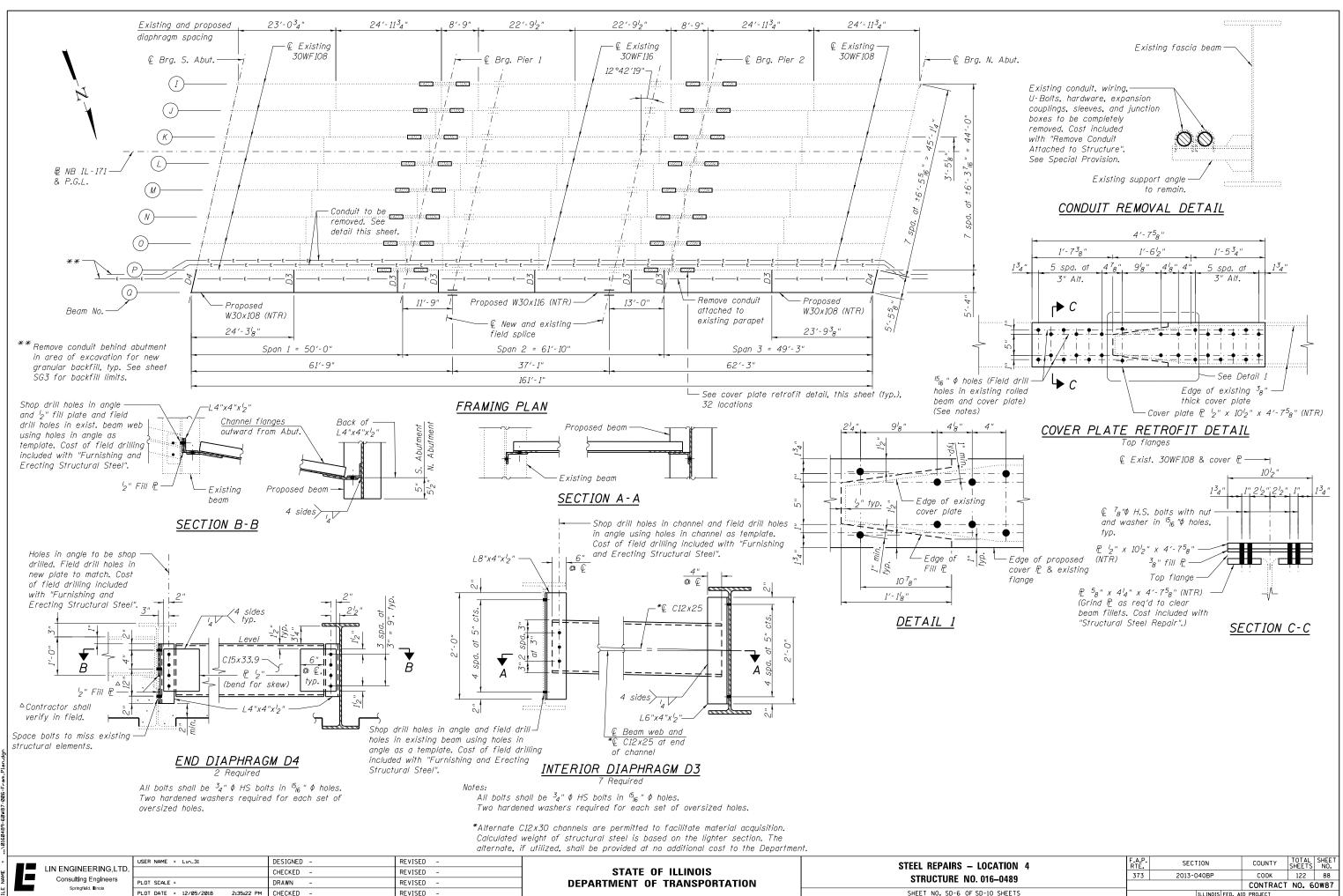
D= 1/8	" PER	EACH	100' 0	F EXP	ANSION	FOR	EVER
CHANGE	FROM	THE N	ORMAL	TEMP.	OF 50	F.	

		USER NAME = Lin_31	DESIGNED - REVISED -			BEARING REPLACEMENT DETAILS – LOCATION 4	F.A.P.	SECTION	COUNTY TOTAL SHEETS	HEET
			CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0489	373	2013-040BP	СООК 122	87
Consularia			DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	31RUCIURL NO. 010-0409	CONTRACT /			N87
opinights	nora, minoro	PLOT DATE = 12/05/2018 2:34:33 PM	CHECKED -	REVISED -		SHEET NO. SD-5 OF SD-10 SHEETS	ILLINOIS FED. AID PROJECT			

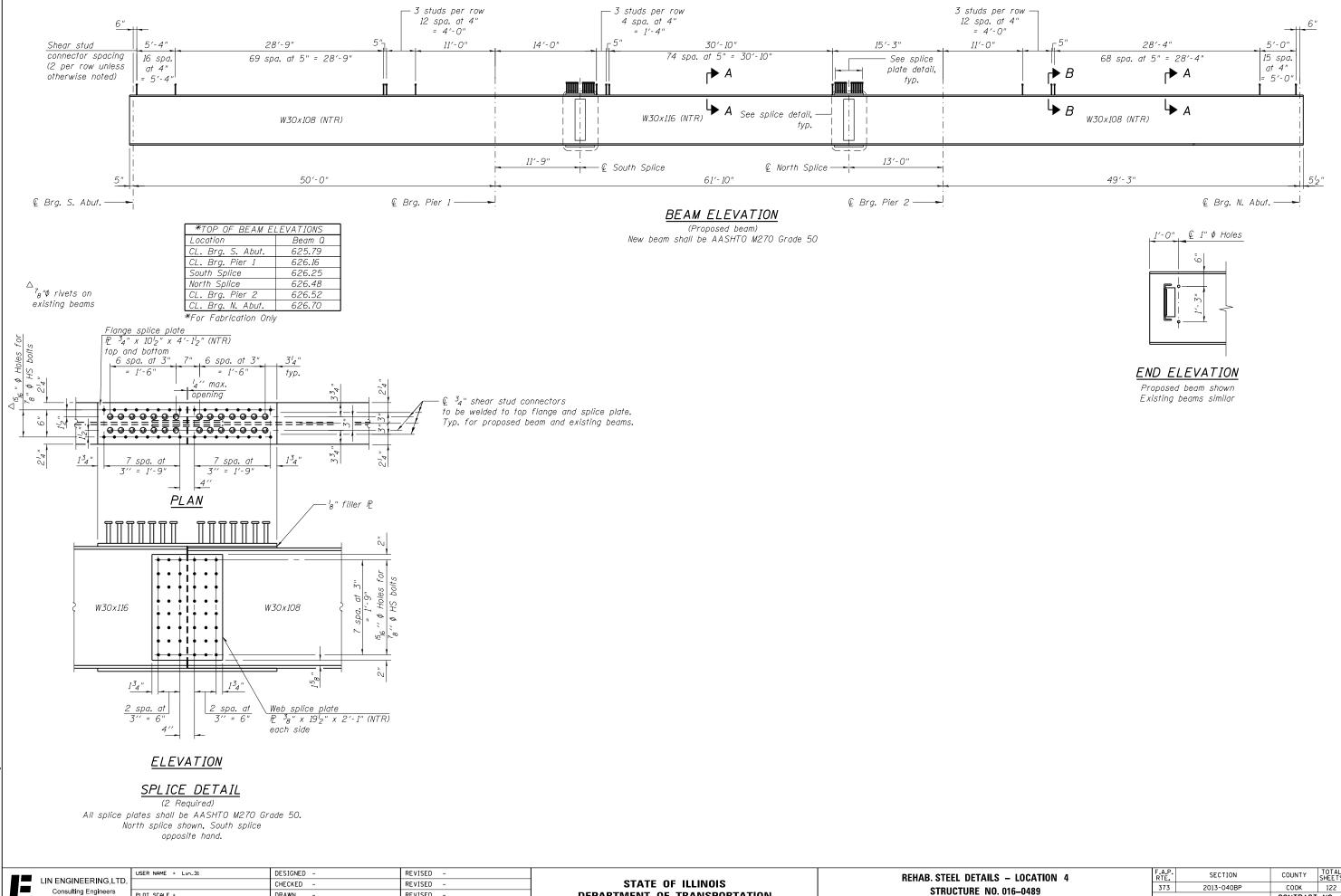


BEAM	REA	CTIONS	
RU	(K)]	18.7	
RŁ	(K)	36.0	
IMP.	(K)	10.3	
R (TOTAL) (K)	65.0]

RY 15' TEMP.



NAME -	LIN ENGINEERING,LTD. Consulting Engineers	USER NAME = Lin_31 PLOT SCALE =	DESIGNED - CHECKED - DRAWN -	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL REPAIRS – STRUCTURE NO.
Ľ	Springfield, Illinois	PLOT DATE = 12/05/2018 2:35:22 PM	CHECKED -	REVISED -	DEFARIMENT OF TRANSPORTATION	SHEET NO. SD-6 OF S



DEPARTMENT OF TRANSPORTATION

SHEET NO. SD-7 OF SE

L

Springfield, Illinois

PLOT SCALE =

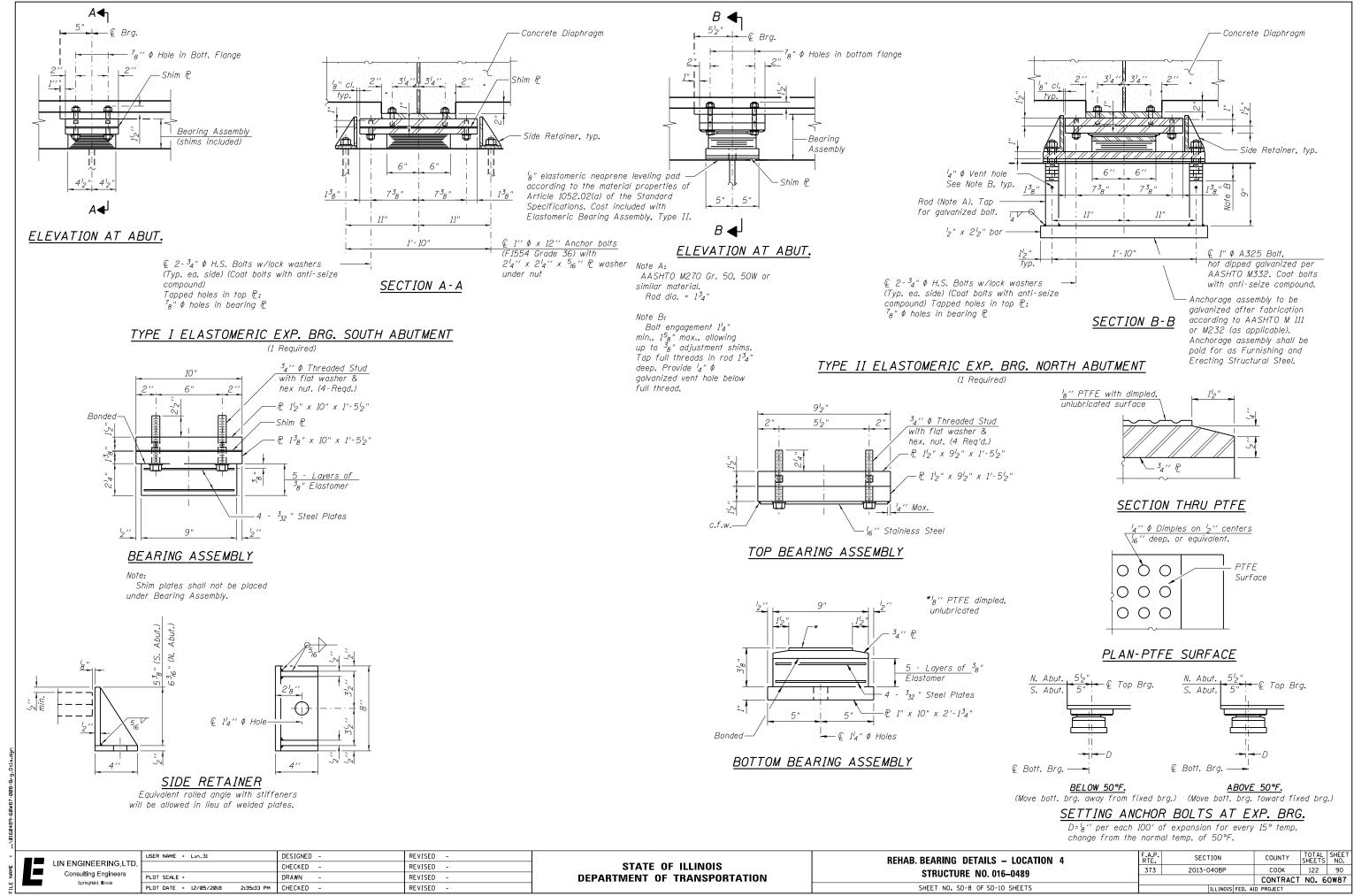
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PLOT DATE = 12/05/2018 2:35:28 PM CHECKED -

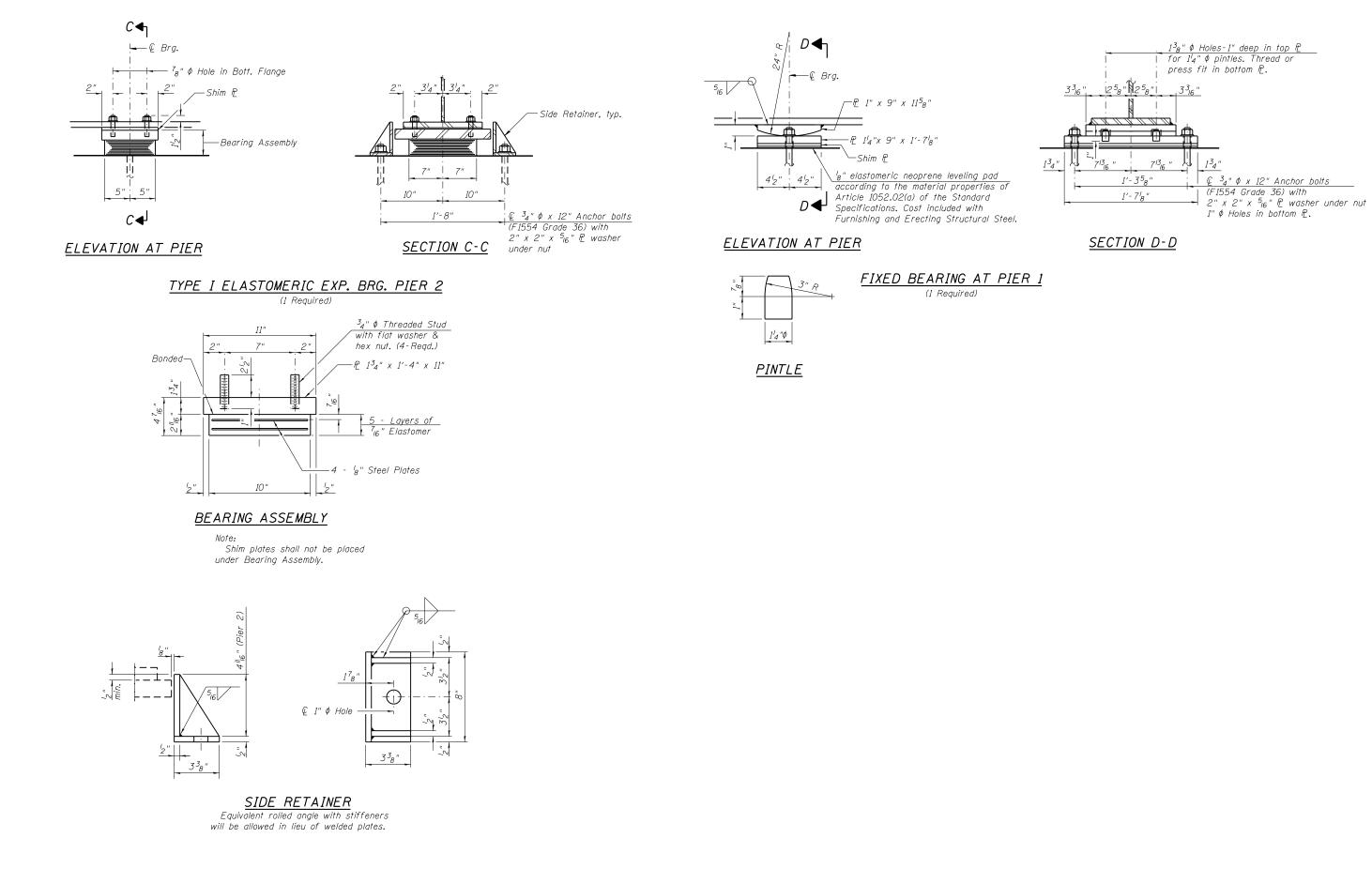
REVISED

REVISED -

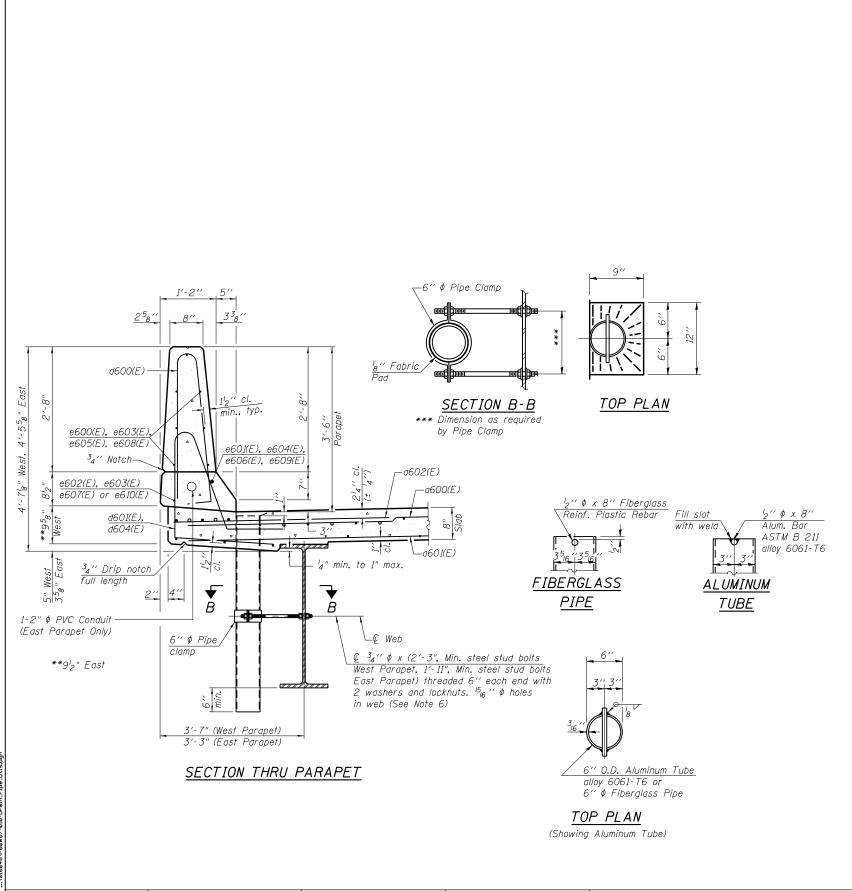
S – LOCATION 4		F.A.P. SECTION		TOTAL SHEETS	SHEET NO.	
016–0489	373	2013-040BP	СООК	122	89	
. 010-0403			CONTRACT	NO. 6	OW87	
SD-10 SHEETS	ILLINOIS FED. AID PROJECT					



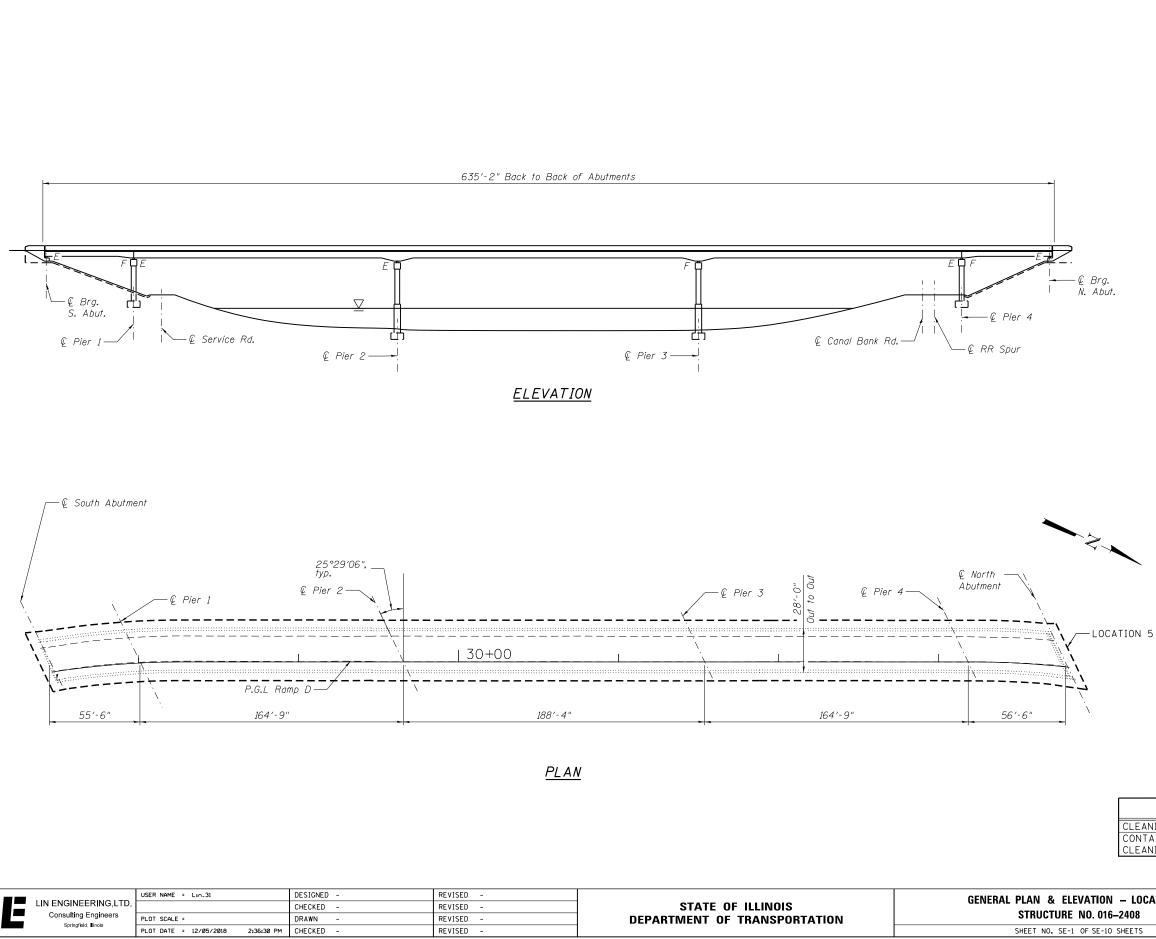
Į	LIN ENGINEERING,LTD.	USER NAME = Lin_31	DESIGNED - CHECKED -	REVISED - REVISED -	STATE OF ILLINOIS	REHAB. BEARING DETAILS -
E	Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016
Ľ	Springheia, illinois	PLOT DATE = 12/05/2018 2:35:33 PM	CHECKED -	REVISED -		SHEET NO. SD-8 OF SD-10



LIN ENGINEERING,LTD. Consulting Engineers Springfield, Illinois	USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. BEARING DETAILS – LOCATION 4		SECTION	COUNTY TO	JTAL SHEET	
		CHECKED - REVISED - STATE OF ILLINOIS		STRUCTURE NO. 016–0489	373	2013-040BP	СООК 1	122 91		
	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	31RUCTURE NU. 010-0409			CONTRACT NO	IO. 60W87	
Springheid, minora	PLOT DATE = 12/05/2018 2:35:39 PM	CHECKED -	REVISED -		SHEET NO. SD-9 OF SD-10 SHEETS		ILLINOIS FED. AID P		D PROJECT	



-											
	_	LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME = Lin_31	DESIGNED -	REVISED -		REHAB. DRAIN PIPE DETAILS – LOCATION 4	F.A.P. BTF	SECTION	COUNTY	TOTAL SHEET
NAME				CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0489	373	2013-040BP	СООК	122 92
			PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	51RUCIURE NU. 010-0489			CONTRACT	NO. 60W87
FILE			PLOT DATE = 12/05/2018 2:35:45 PM	CHECKED -	REVISED -		SHEET NO. SD-10 OF SD-10 SHEETS	ILLINOIS FED. A		D. AID PROJECT	



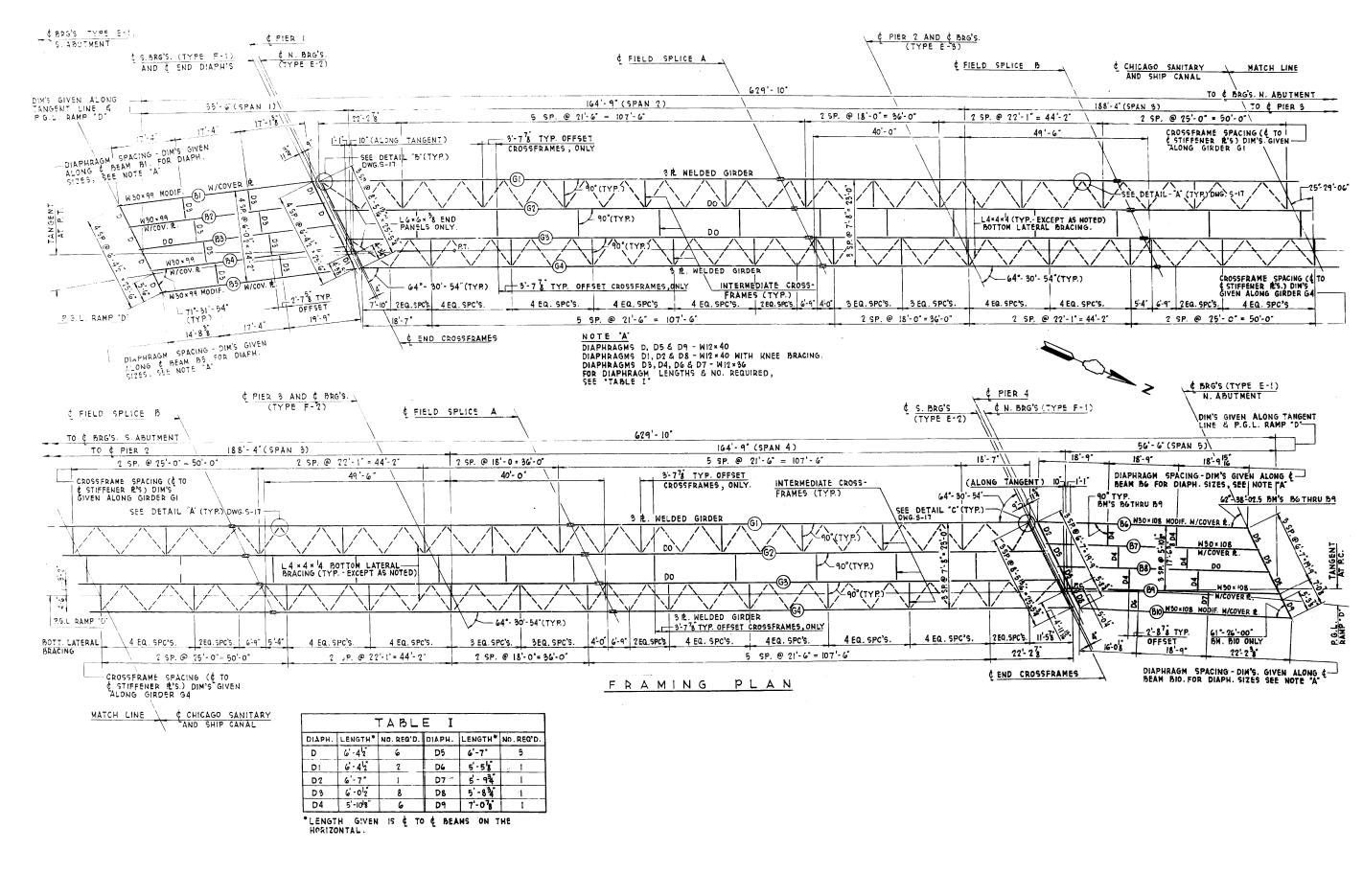
GENERAL NOTES

- 1. THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
- 2. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS. STRUCTURAL SHEETS TAKEN FROM EXISTING PLANS CONTAIN INFORMATION NOT PERTAINING TO THIS CONTRACT AND ARE FOR INFORMATION ONLY.
- 4. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SE-9 AND SE-10 HAS BEEN PRIMED WITH AN INORGANIC ZINC RICH PRIMER UNDER A PREVIOUS CONTRACT. THESE STEEL SURFACES SHALL BE PRESSURE WASHED CLEAN AND POWER TOOL CLEANED (SSPC SP-3 MODIFIED) AS NECESSARY PRIOR TO THE APPLICATION OF THE INTERMEDIATE AND TOP COATS. THE INORGANIC ZINC RICH PRIMER / ACRYLIC / ACRYLIC PAINT SYSTEM SHALL BE USED FOR FIELD PAINTING OF THESE LOCATIONS. 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, MUNSELL NO. 2.5YR 3/4.
- 5. ALL EXISTING STRUCTURAL STEEL IDENTIFIED ON SHEETS SE-2 THRU SE-8 SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THESE LOCATIONS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF THE EPOXY MASTIC / EPOXY MASTIC / ACRYLIC PAINT SYSTEM. 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, MUNSELL NO. 2.5YR 3/4.
- 6. A MINIMUM OF 2 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".
- 7. THE ELASTOMERIC PADS OF THE EXISTING BEARINGS SHALL BE MASKED OFF FOR PROTECTION DURING PAINTING AND REMOVED WHEN PAINTING IS FINISHED. COST INCLUDED WITH "CLEANING AND PAINTING STEEL BRIDGE NO. 5".
- 8. IF APPLICABLE, THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS DEMONSTRATING THE STRUCTURAL INTEGRITY OF THE BRIDGE IS MAINTAINED UNDER THE ADDITIONAL IMPOSED LOADS OF THE CONTAINMENT SYSTEM. SEE SPECIAL PROVISIONS.
- 9. ONLY ACCESSIBLE AREAS OF STEEL ON THE UNDERSIDE OF THE FINGER PLATE EXPANSION JOINT SYSTEM SHALL BE PAINTED. TOP SURFACE OF THE FINGER PLATES AND PARAPET PLATES SHALL NOT BE PAINTED.

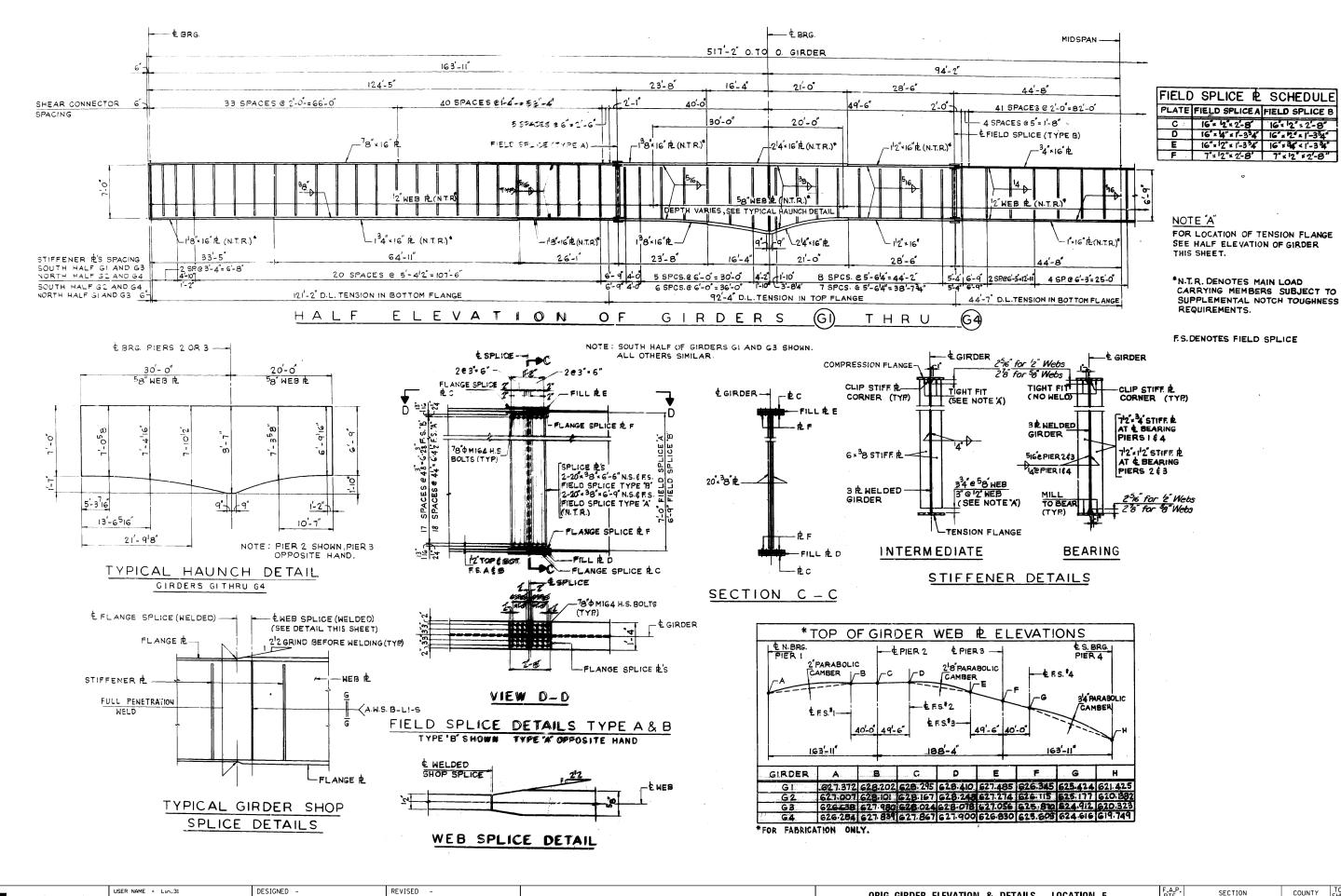
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
CLEANING AND PAINTING STEEL BRIDGE NO. 5	L. SUM	1
CONTAINMENT AND DISPOSAL OF LEAD PAINT	L. SUM	1
CLEANING RESIDUES NO. 5		

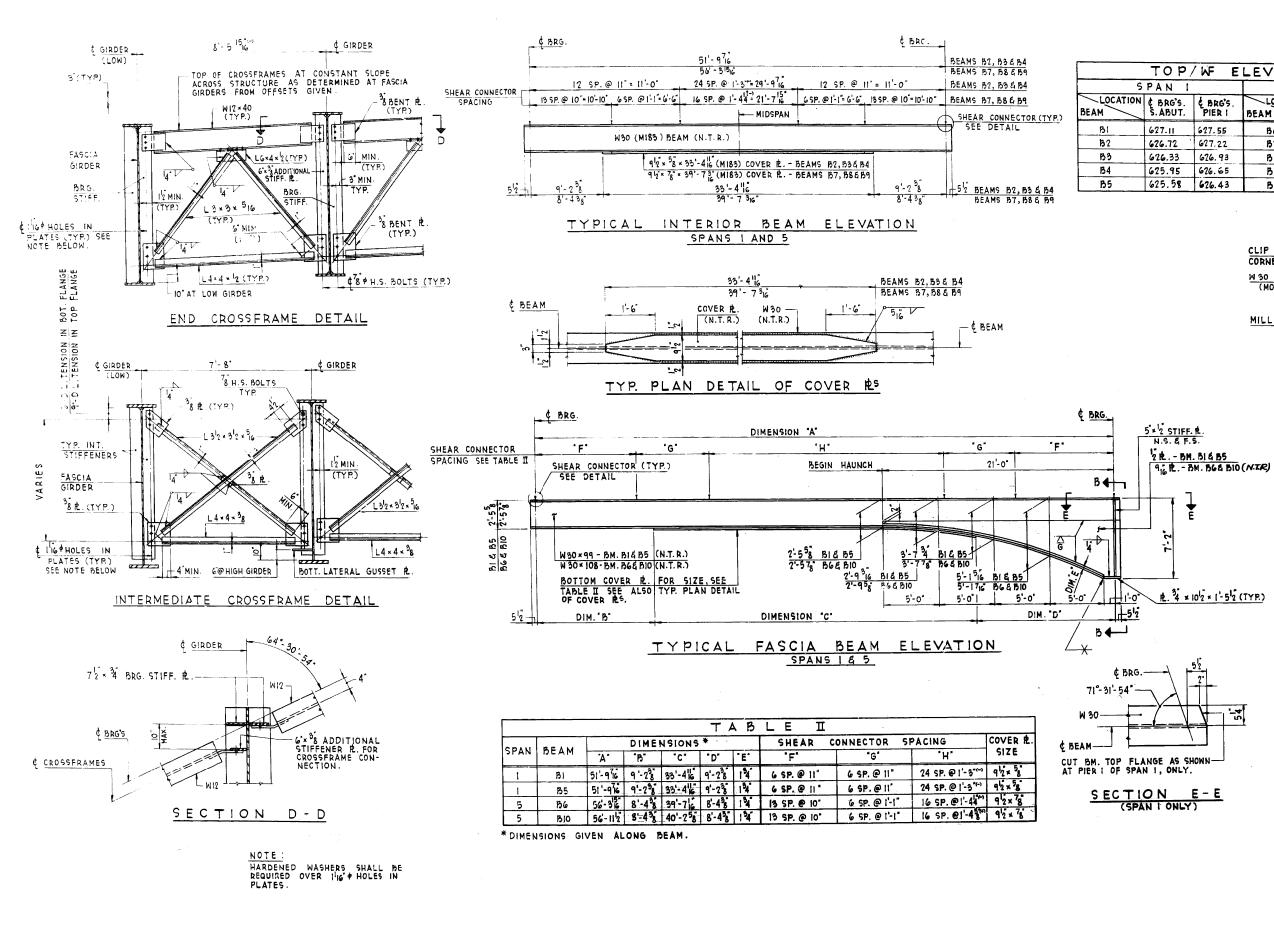
ON – LOCATION 5	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
016-2408	373	2013-040BP	СООК	122	93		
010-2408			CONTRACT	NO. 6	0W87		
-10 SHEETS	ILLINOIS FED. AID PROJECT						



	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. FRAMING PLAN – LOCATION 5	F.A.P. RTF.	SECTION	COUNTY	TOTAL S	HEET
LIN ENGINEERING, LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016–2408	373	2013-040BP	СООК	122	94
Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	31NUCIUNE NU. 010-2406		CONTR/		CONTRACT NO. 60W8	
	PLOT DATE = 12/05/2018 2:36:35 PM	CHECKED -	REVISED -		SHEET NO. SE-2 OF SE-10 SHEETS		ILLINOIS FED. AID PROJECT			

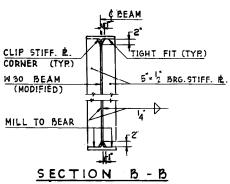


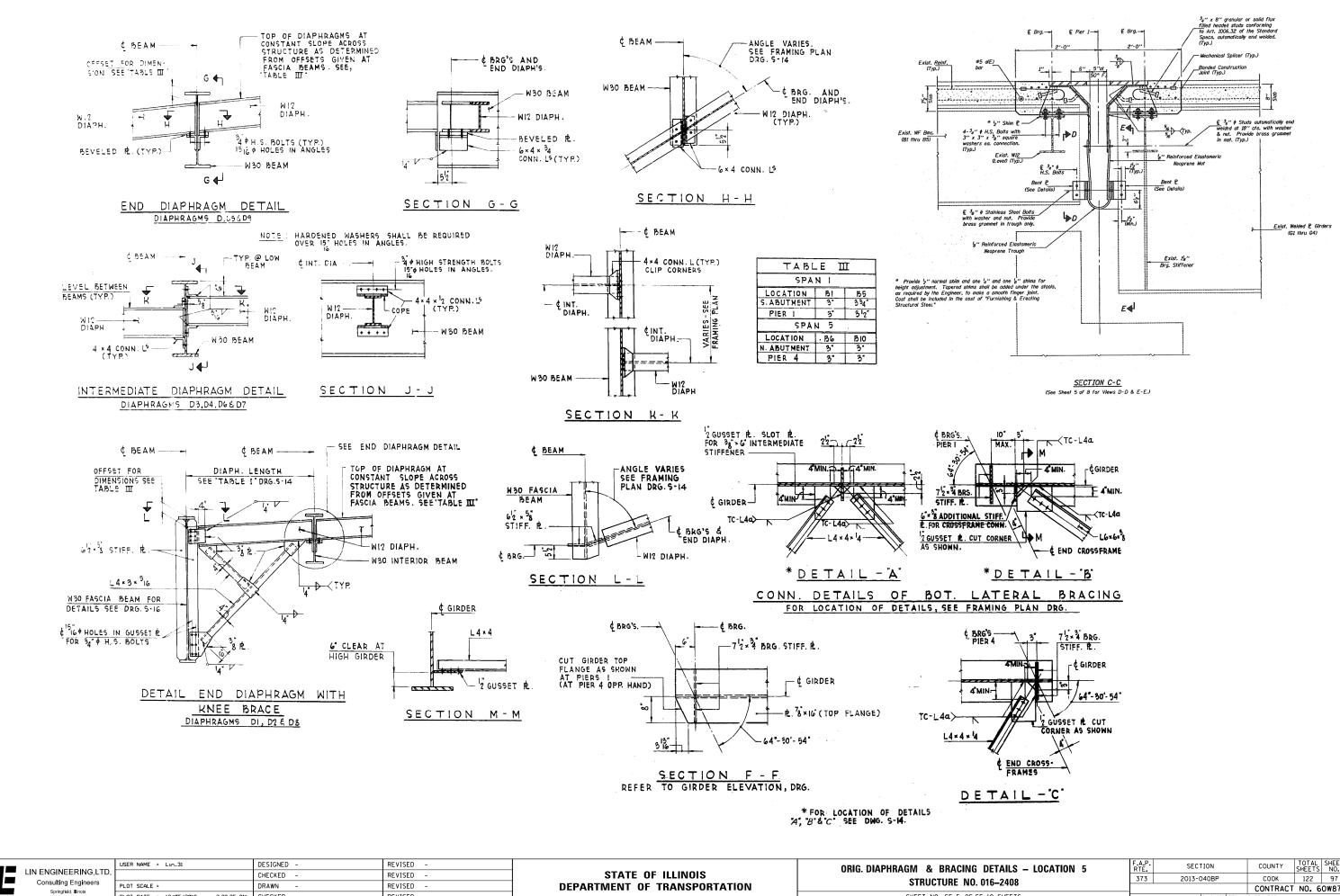
E		USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. GIRDER ELEVATION & DETAILS - LOCATION 5	F.A.P. SECTION COUNTY TOTAL SHE	EET
	IN ENGINEERING, LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		373 2013-040BP COOK 122 95	45
	Consulting Engineers	PLOT SCALE =	DRAWN -	REVISED -		STRUCTURE NO. 016–2408	CONTRACT NO. 60W8	87
	Springfield, Illinois	PLOT DATE = 12/05/2018 2:37:12 PM	CHECKED -	REVISED -		SHEET NO. SE-3 OF SE-10 SHEETS	ILLINOIS FED. AID PROJECT	



	USER NAME = Lin_31	DESIGNED -	REVISED -		ORIG. CROSS FRAME & BEAM DETAILS – LOCATION 5		SECTION	COUNTY	TOTAL SHEET
LIN ENGINEERING,LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		373	2013-040BP	СООК	122 96
Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN -	REVISED -		STRUCTURE NO. 016–2408			CONTRACT	
apringinau, illinois	PLOT DATE = 12/05/2018 2:37:55 PM	CHECKED -	REVISED -		SHEET NO. SE-4 OF SE-10 SHEETS	ILLINOIS FED. AID PROJECT			

	TOP	WF E	LEVAT 10	NS	·		
	PAN I		SPAN 5				
	¢ BRG'S. S. ABUT.	E BRG'S.	LOCATION	EBRG'S. PIER 4	¢ BRG'S. N. ABUT.		
BI	627.11	627.55	86	621.50	619.51		
B2	626.72	627.22	B7	620.04	618.00		
B3	626.33	626.93	88	620.60	618.48		
B4	625.95	626.65	B9	620.16	617.95		
B5	625.58	626.43	B10	619.81	617.36		



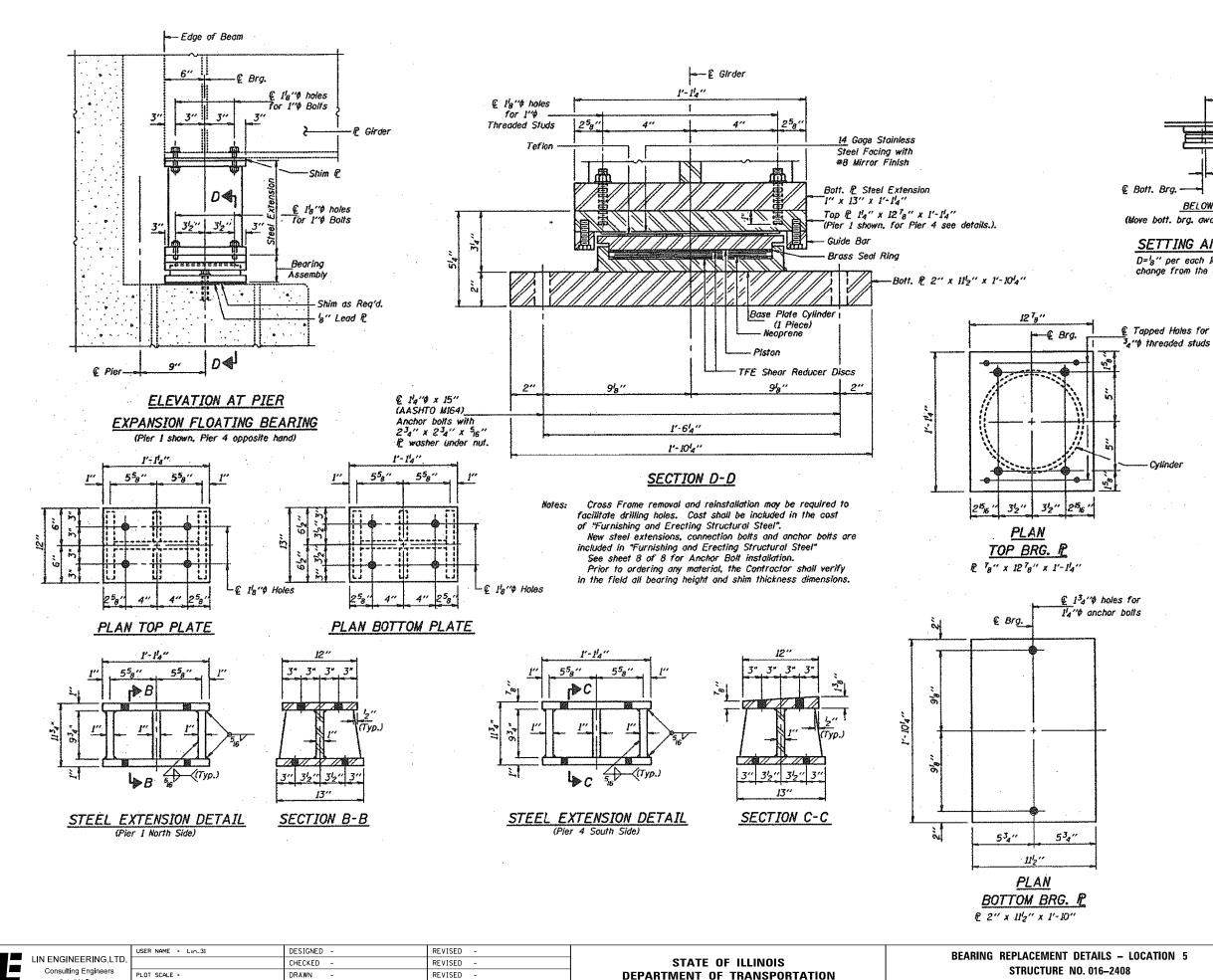


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SHEET NO. SE-5 OF S

DETAILS – LOCATION 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016–2408	373	2013-040BP	СООК	122	97
. 010-2400			CONTRACT	NO. 6	0W87
SE-10 SHEETS ILLINOIS FED. AID PROJECT					

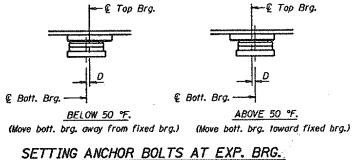


SHEET NO. SE-6 OF SE

Springfield, Illinois

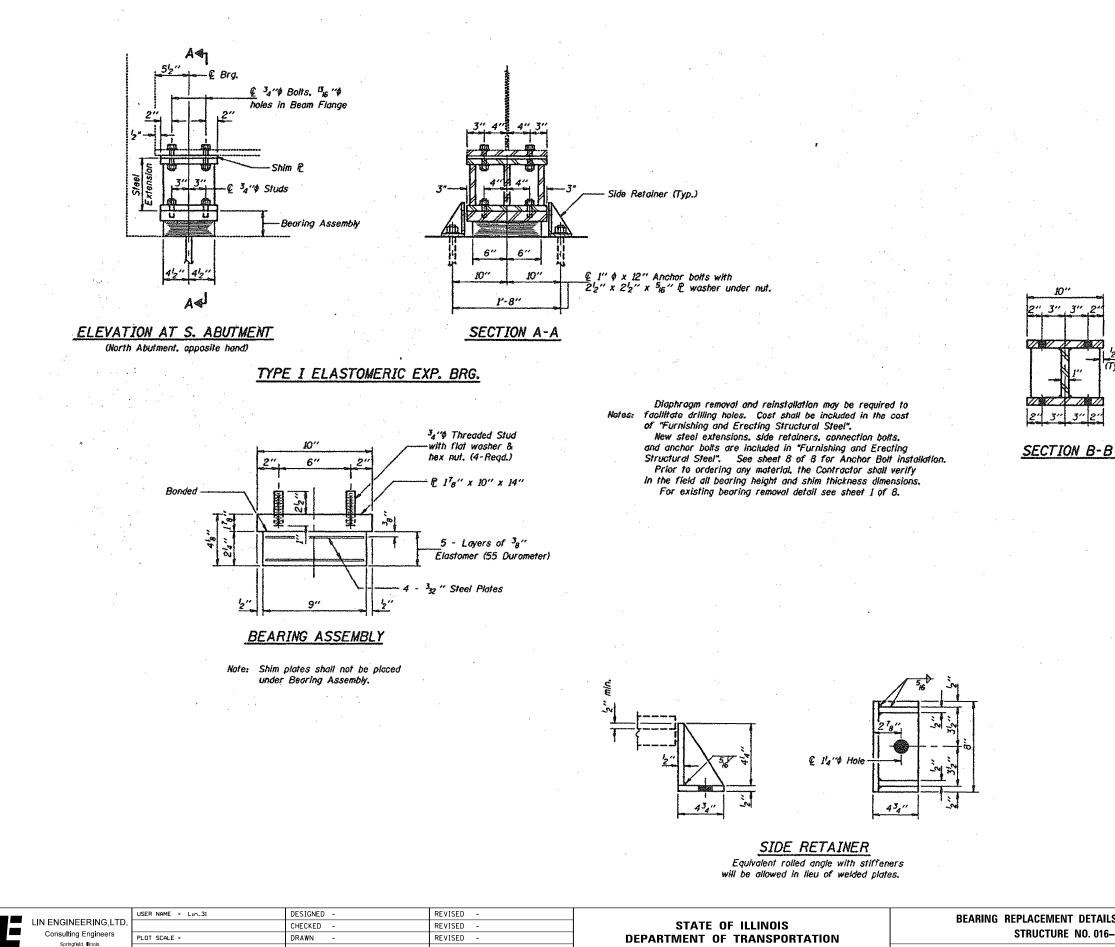
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REVISED



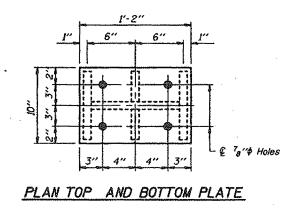
D=18" per each 100' of expansion for every 15 °F. temp. change from the normal temp, of 50 °F.

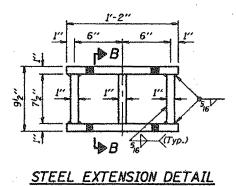
TAILS – LOCATION 5		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016–2408	373	2013-040BP	СООК		98
010-2408			CONTRACT	NO. 6	OW87
SE-10 SHEETS		ILLINOIS FED. A	D PROJECT		



BEARING REPLACEMENT DET. STATE OF ILLINOIS CHECKED -REVISED -Consulting Engineers STRUCTURE NO. PLOT SCALE = DRAWN REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 12/05/2018 2:40:07 PM CHECKED -REVISED -SHEET NO. SE-7 OF SE

Springfield, Illinois





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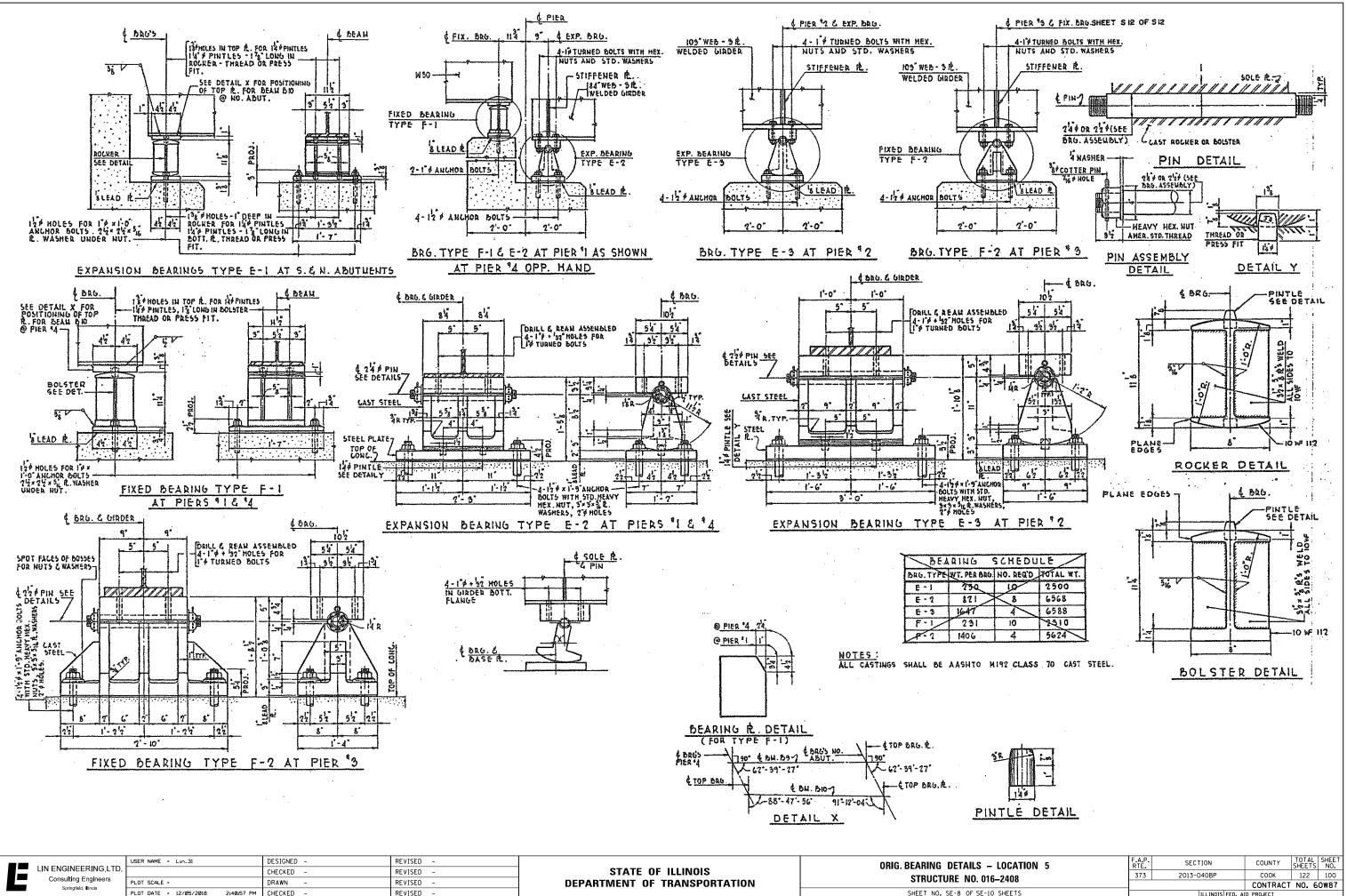
(Typ.)

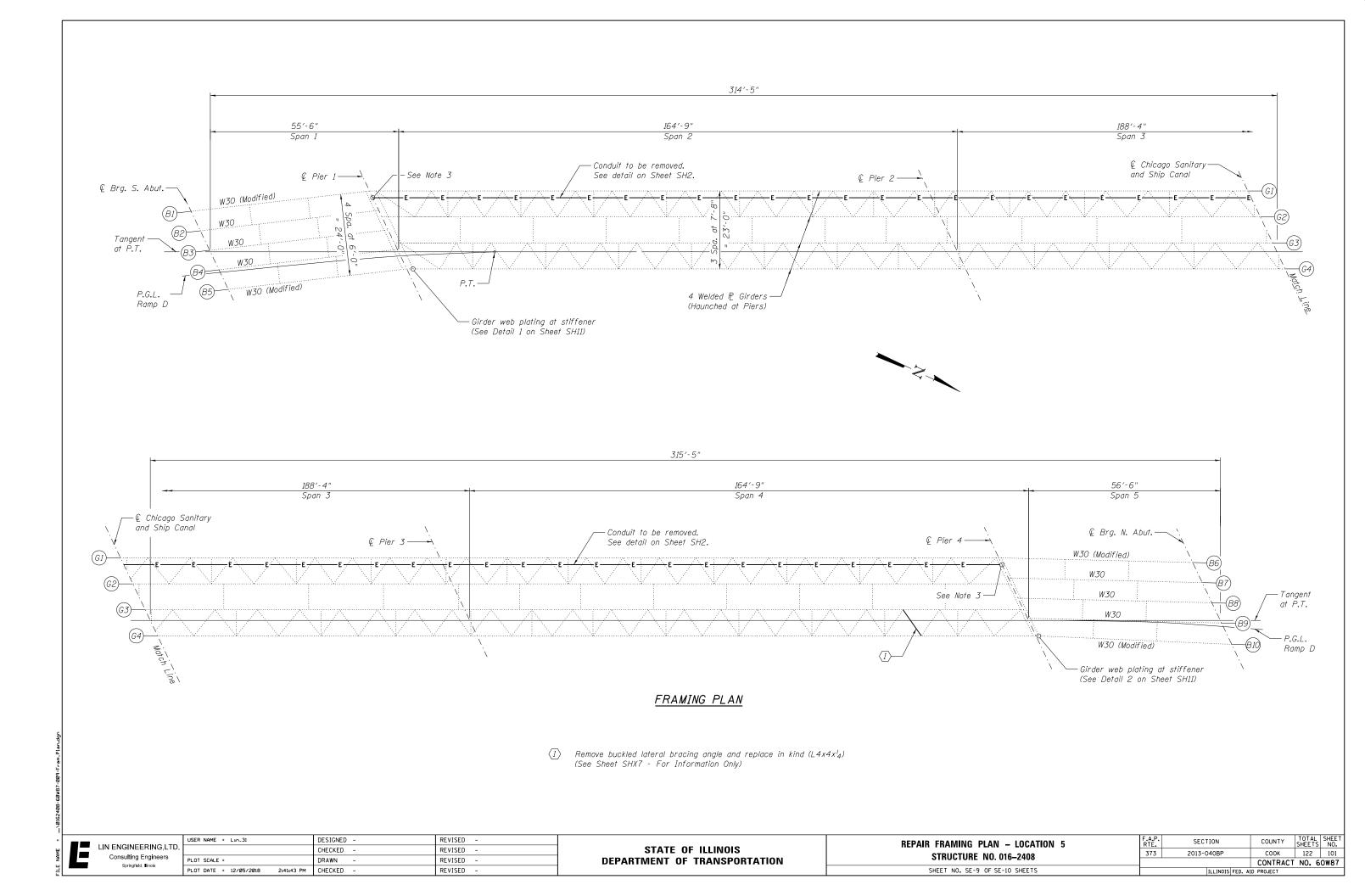
311

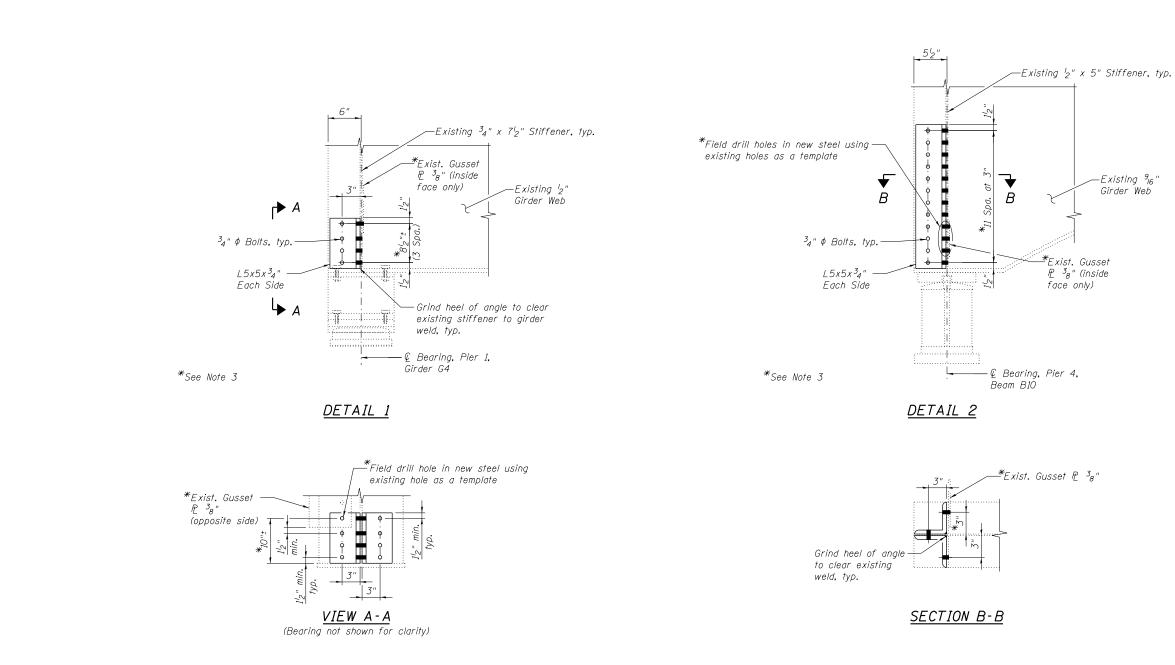
3''

1	<u>GIRDER</u>	REA	CTIONS	
1	RE	(K)	33.6	
	RŁ	(K)	33.5	
	Imp.	(K)	9.2	
	R (Total)	(K)	76.3	

TAILS – LOCATION 5	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016-2408	373	2013-040BP	СООК	122	99
010-2400			CONTRACT	NO. 6	0W87
E-10 SHEETS		ILLINOIS FED. A	ID PROJECT		





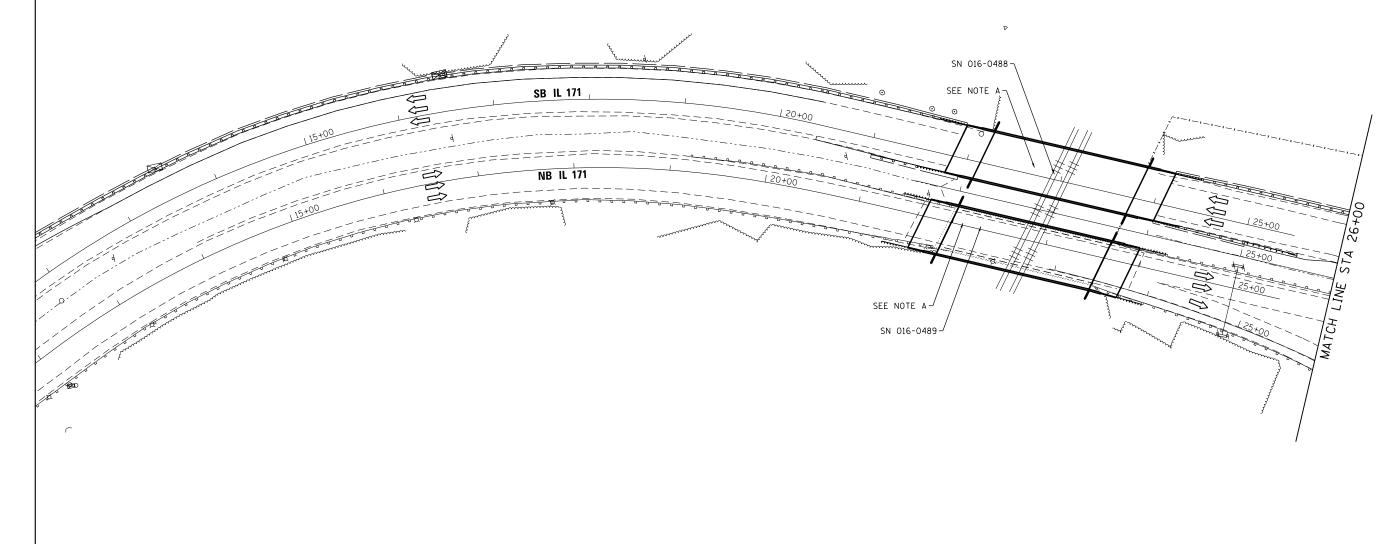


	USER NAME = Lin_31	DESIGNED -	REVISED -		STEEL REPAIR DETAILS – LOCATION 5	F.A.P.	SECTION	COUNTY	TOTAL SHEET
LIN ENGINEERING,LTD.		CHECKED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016-2408	373	2013-040BP	СООК	122 102
Springfield, Illinois	PLOT SCALE = PLOT DATE = 12/05/2018 2:41:49 PM	DRAWN – CHECKED –	REVISED – REVISED –		SHEET NO. SE-10 SHEETS	-		CONTRACT	NO. 60W87

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MAINTENANCE OF TRAFFIC GENERAL NOTES

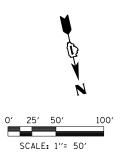
- 1. NB IL 171 RAMP TO NB I-55 IS TO BE ADDRESSED BY DISTRICT DETAIL TC-08 DEPENDING IF FULL RAMP OR PARTIAL CLOSURE.
- 2. CONTRACT MUST SUBMIT A LANE CLOSURE REQUEST THROUGH THE LCS (LANE CLOSURE SYSTEM) TO GAIN APPROVAL FROM OPERATIONS SUPERVISOR AND TO SAFELY PERFORM THE BRIDGE PAINTING.
- 3. TRAFFIC CONTROL ON THE RAMPS SHALL BE ACCORDING TO DISTRICT DETAIL TC-17 AND STATE STANDARD 701411.
- 4. LANE AND RAMP CLOSURE HOURS SHALL BE AS SHOWN IN THE CONTRACT SPECIAL PROVISIONS.
- 5. CONTRACTOR SHALL REVIEW THE GENERAL NOTES ON SHEET 3 OF THE PLANS DUE TO THE SURROUNDING ENVIRONMENT OF A RAILROAD AND SANITARY AND SHIP CANAL.
- 6. STATE STANDARDS 701106, 701400, 701401, AND 701428 SHALL BE UTILIZED FOR ALL EXPRESSWAY LANE CLOSURES.
- 7. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIAL PROVISIONS.

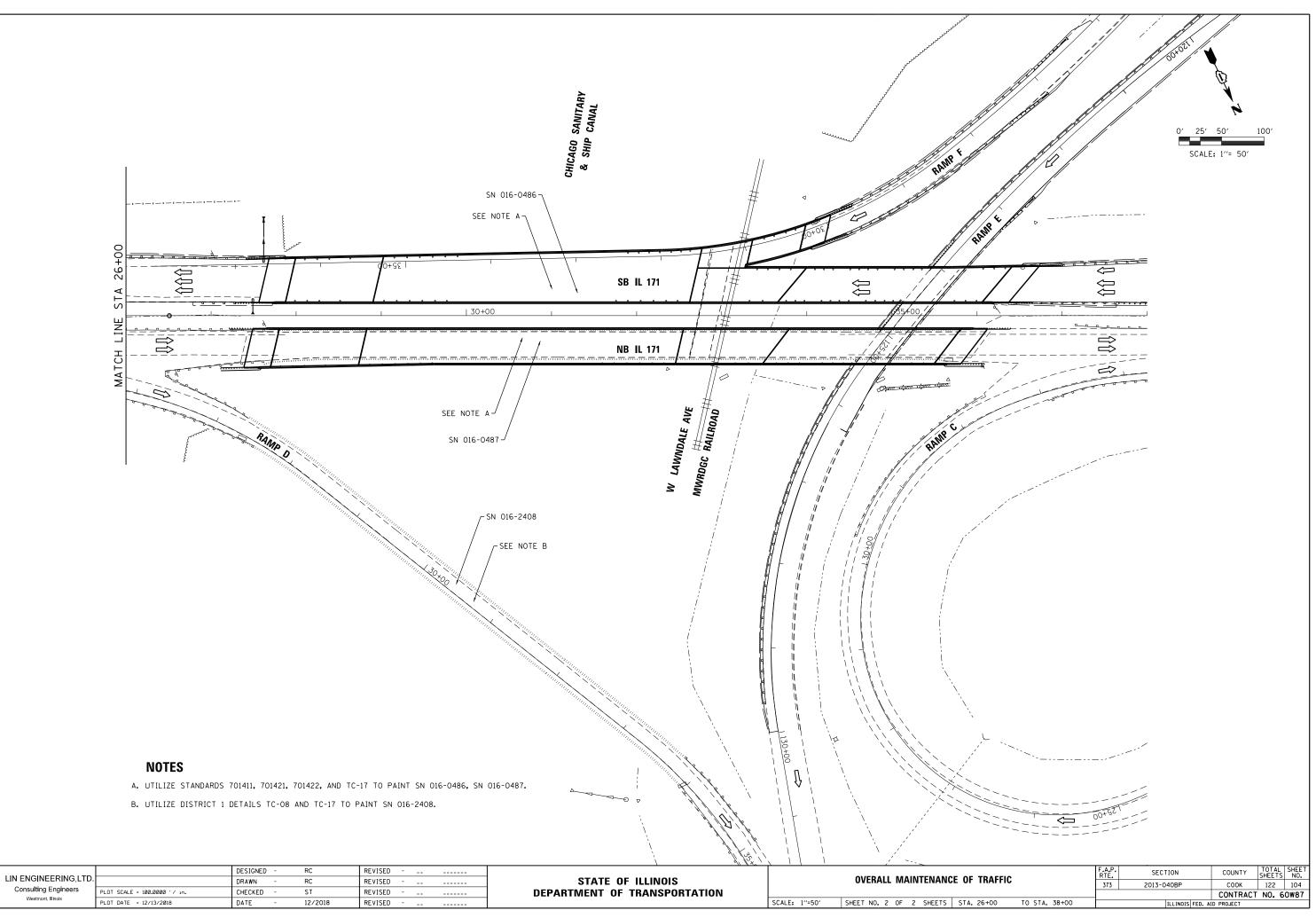


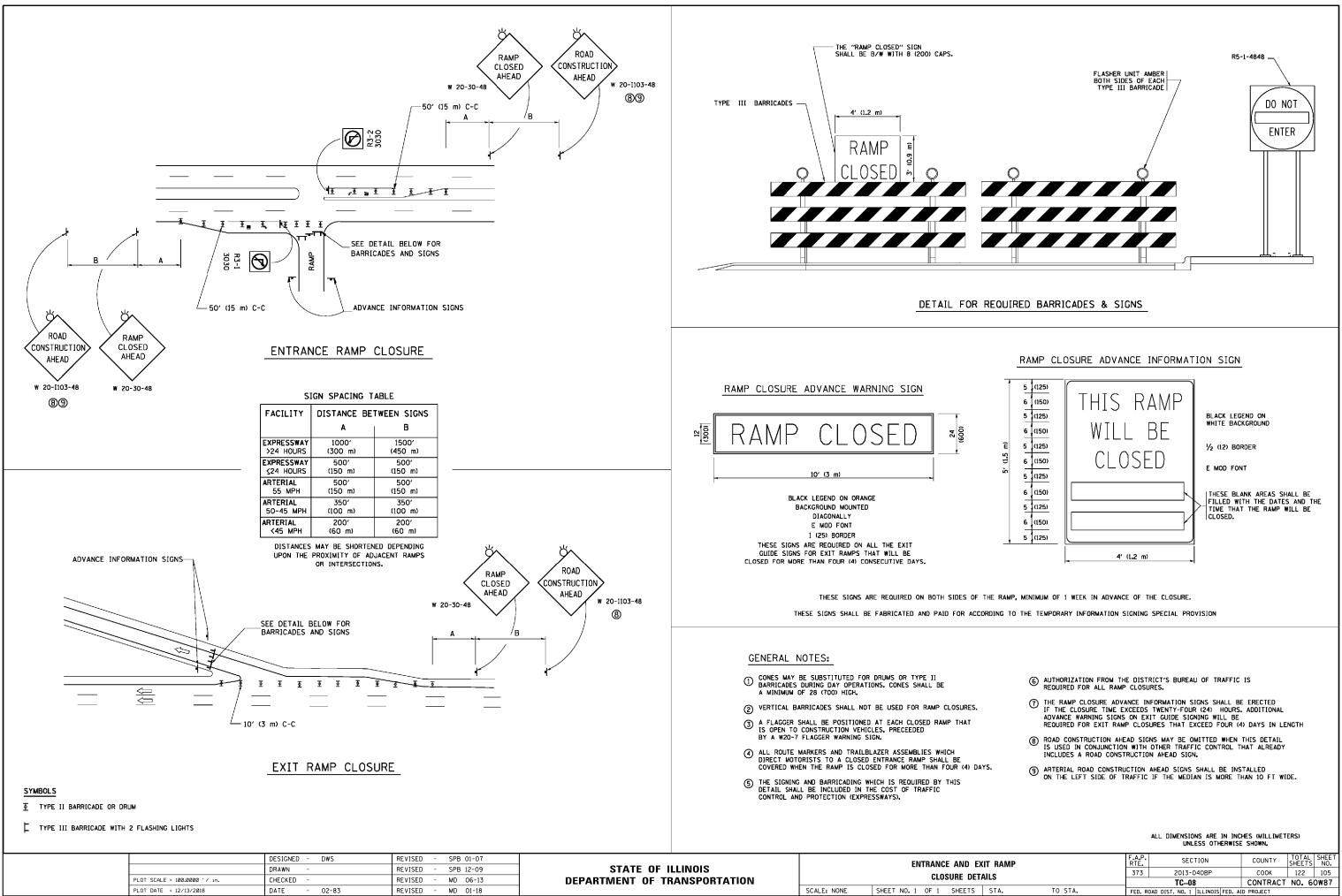
NOTES

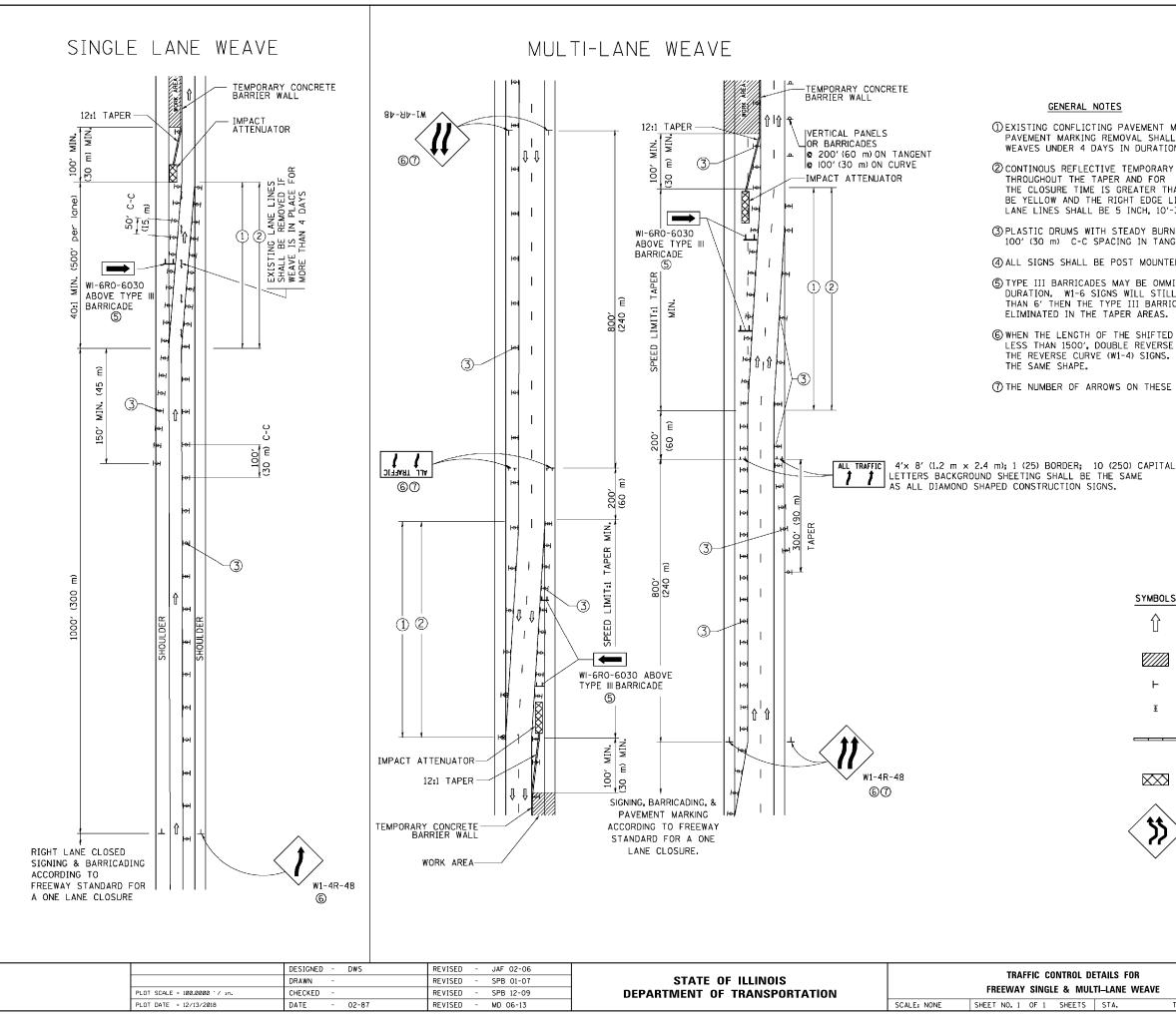
A. UTILIZE STANDARDS 701411, 701421, 701422, AND TC-17 TO PAINT SN 016-0488 AND SN 016-0489.

		DESIGNED -	RC	REVISED					F.A.P. RTF.	SECTION	COUNTY	TOTAL '	SHEET NO.
		DRAWN -	RC	REVISED	 STATE OF ILLINOIS		OVERALL MAINTENANCE OF TRAFFIC		373	2013-040BP	СООК	122	103
Westmont, Illinois	PLOT SCALE = 100.0000 ' / in.	CHECKED -	ST	REVISED	 DEPARTMENT OF TRANSPORTATION						CONTRAC	F NO. 60	JW87
vvestmont, linnois	PLOT DATE = 12/13/2018	DATE -	12/2018	REVISED		SCALE: 1"=50"	SHEET NO. 1 OF 2 SHEETS STA. 12+00 TO	D STA. 26+00		ILLINOIS FED. A	ID PROJECT		









() EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.

CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

(3) PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

(4) ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

(5) TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE

(6) WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE

(7) THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- ⇧ DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL ₫ STEADY BURNING LIGHT

TEMPORARY CONCRETE BARRIER WALL

IMPACT ATTENUATOR

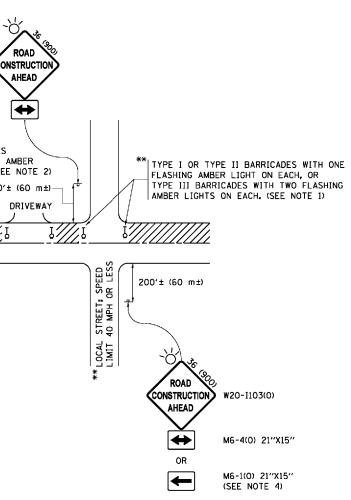
W24-1-48 \bigcirc

		HERWIJE SHOWN				
ETAILS FOR TI-LANE WEAVE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		2013-040BP	СООК	122	106	
		TC-09	CONTRACT	NO. 6	0W87	
STA. TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT			

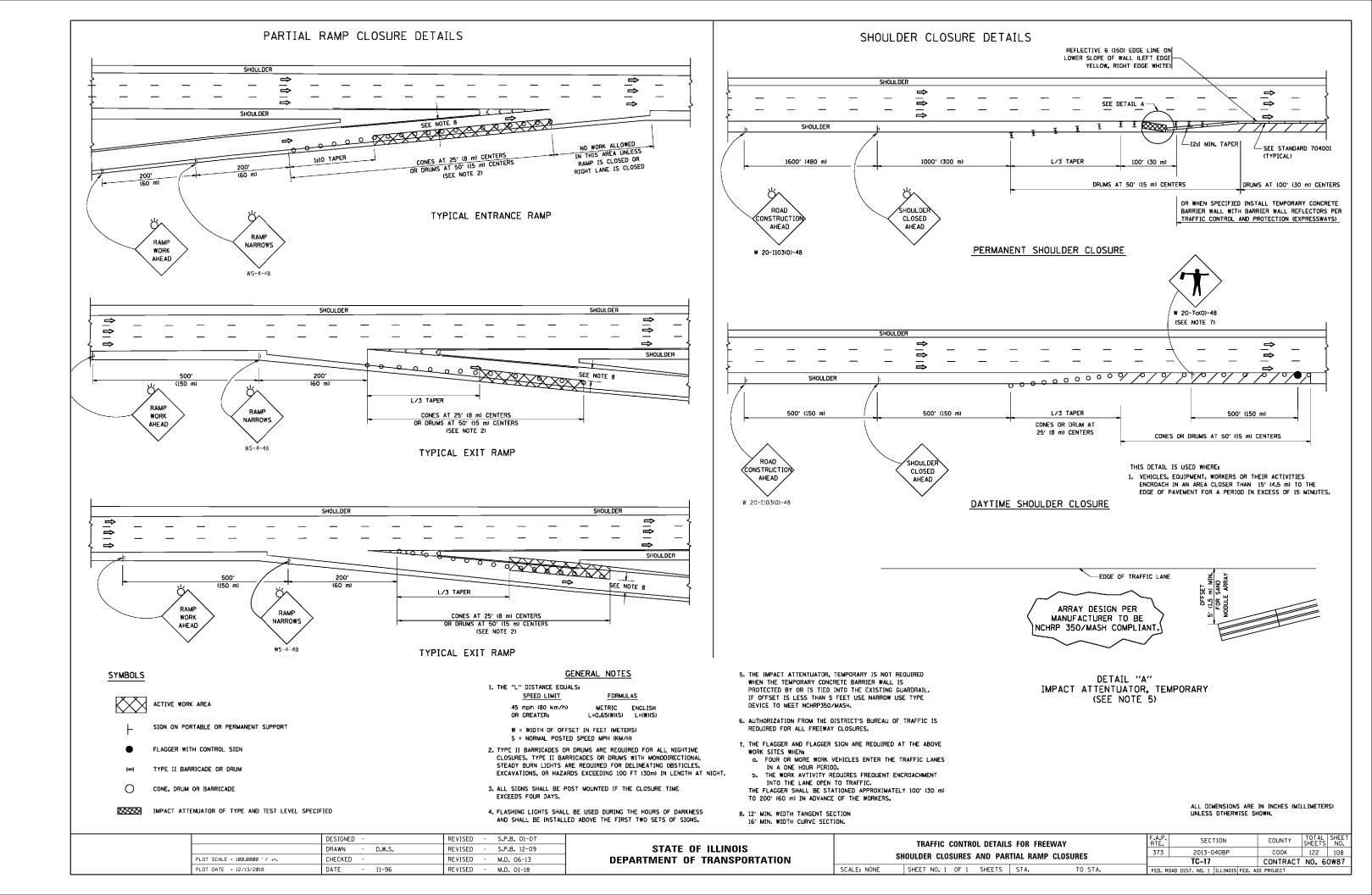
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

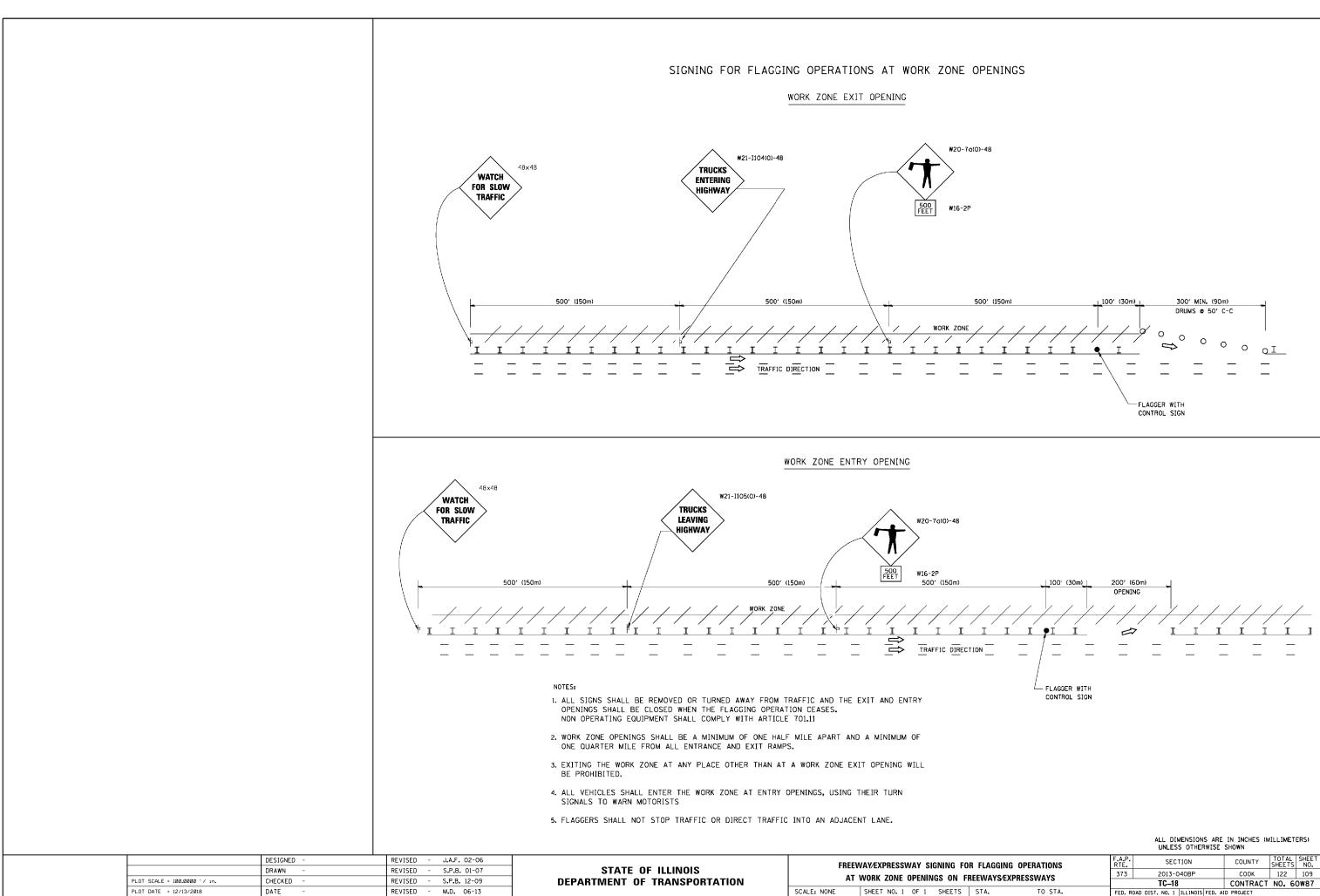
				TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. (SEE NOTE 2) 200' ± (60 mt) DRIVEWAY	W20-1103(0) W20-1
			SHOWN ON THE a) ONE "RO, MOUNTED b) THE CLO: BLOCKING THE CRO: 2. SIDE ROAD WIT AS SHOWN ON a) ONE "RO, FLASHER OF THE I b) THE CLO: BLOCKING OF THE I 3. CONES MAY BE SPACING DURIN IN HEIGHT. 4. WHEN THE SIDE SIGNING AND T	TH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS DRAWING AND AS DIRECTED BY THE ENGINEER: AD CONSTRUCTION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. SED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY G WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF SS SECTION OF THE CLOSED PORTION. TH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) THE DRAWING AND AS DIRECTED BY THE ENGINEER: AD CONSTRUCTION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE MAIN ROUTE. SED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY G WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION CLOSED FORTION. SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE IG DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) E ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE HE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL EU OF THE DOUBLE HEADED ARROW (M6-4).	 WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (MG-1 OR MG-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
DR/ / 10- CHE	SIGNED - L.H.A. AWN - ECKED -	REVISED - A. HOUSEH 10-15-96 REVISED - T. RAMMACHER 01-06-00 REVISED - A. SCHUETZE 07-01-13	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		AYS 373 2013-040BP COOK 122 107 TC-10 CONTRACT NO. 60W87
DA	TE - 06-89	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA.	TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96			TRAFFIC CONTROL AND PROTECTION FOR	F.A.P.	SECTION	COUNTY TOTAL SHEET
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	STATE OF ILLINOIS					COOK 122 107
PLOT SCALE = 100.0001 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13	DEPARTMENT OF TRANSPORTATION		SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		2013-040BP TC-10	CONTRACT NO. 60W87
PLOT DATE = 12/13/2018	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED	AID PROJECT

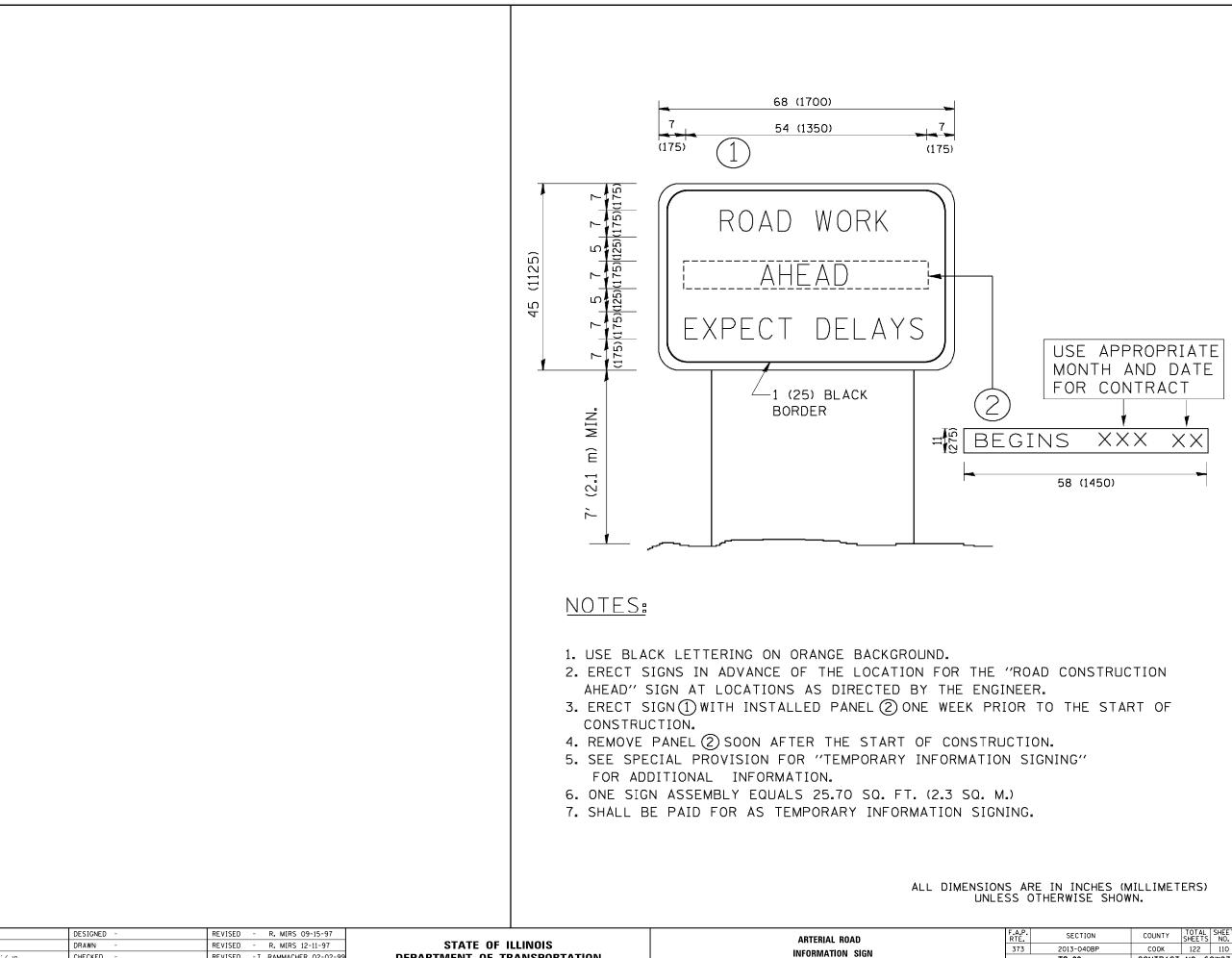


All dimensions	are	In	Inches	(millimeters)
unless otherw	ise	sho	wn.	



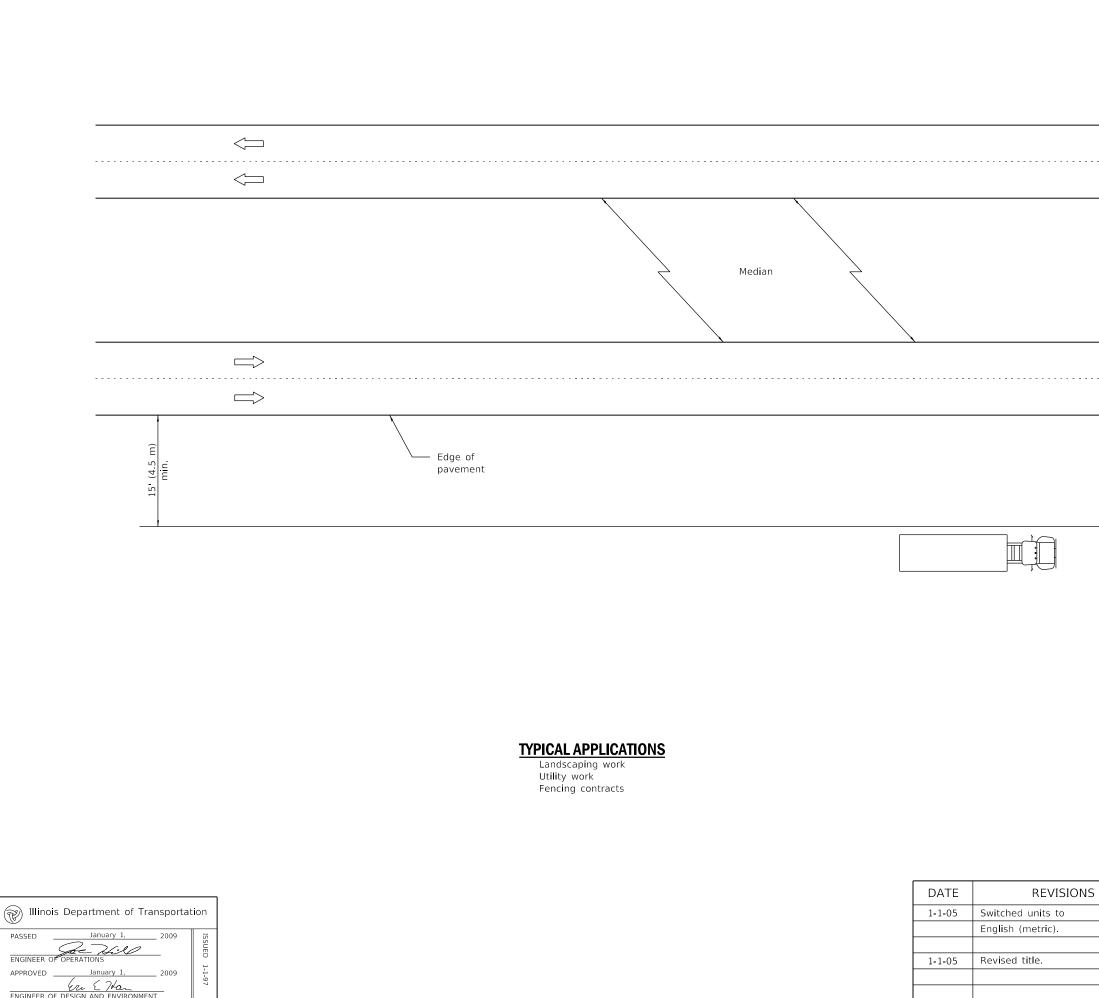


	UNLESS OTHERWISE SHOWN					
FOR FLAGGING OPERATIONS FREEWAYS/EXPRESSWAYS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		373	2013-040BP	СООК	122	109
			TC-18	CONTRACT	NO. 6	0W87
	STA. TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	PROJECT		



	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97 REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	ARTERIAL ROA		
PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED - T. RAMMACHER 02-02-99			INFORMATION S	
PLOT DATE = 12/13/2018	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	

ROAD In Sign		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		373	2013-040BP	СООК	122	110	
			TC-22	CONTRACT	NO. 6	OW87	
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



 $\langle \Box$	
	15' (4.5 m) min.
	15 (4 mi

GENERAL NOTES

This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

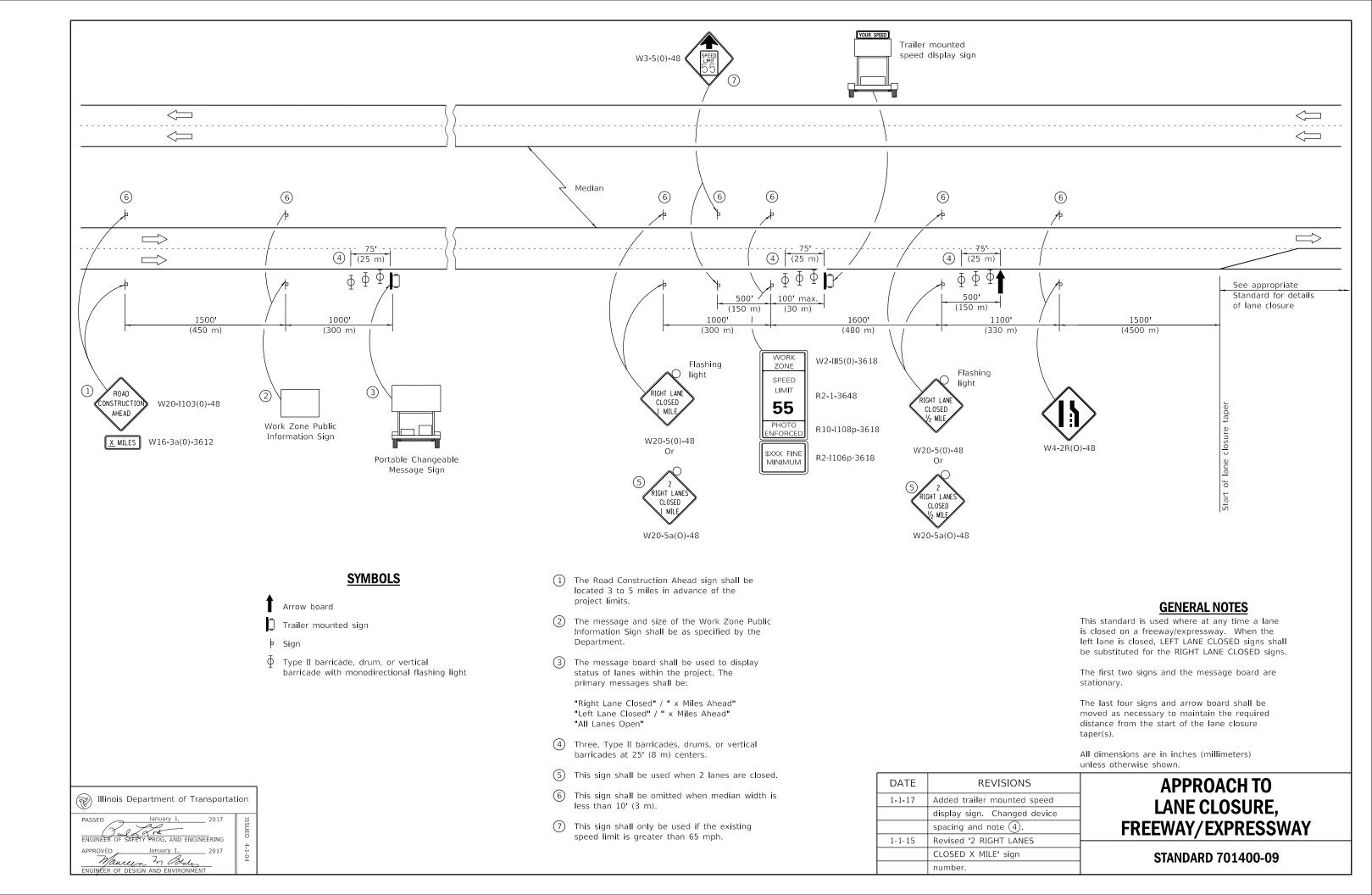
When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701101.

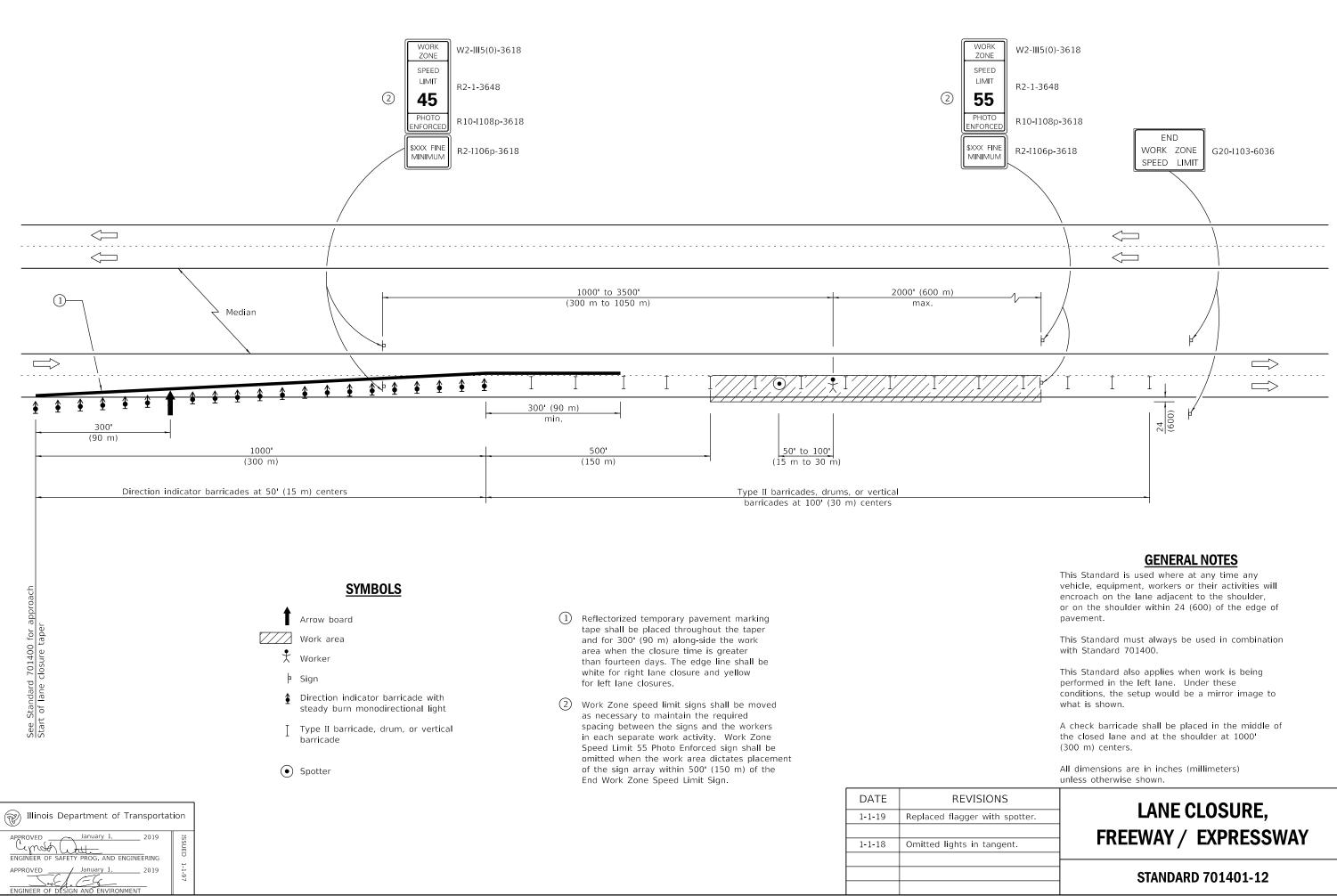
This Standard also applies to work performed in the median more than 15' (4.5 m) from either pavement.

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

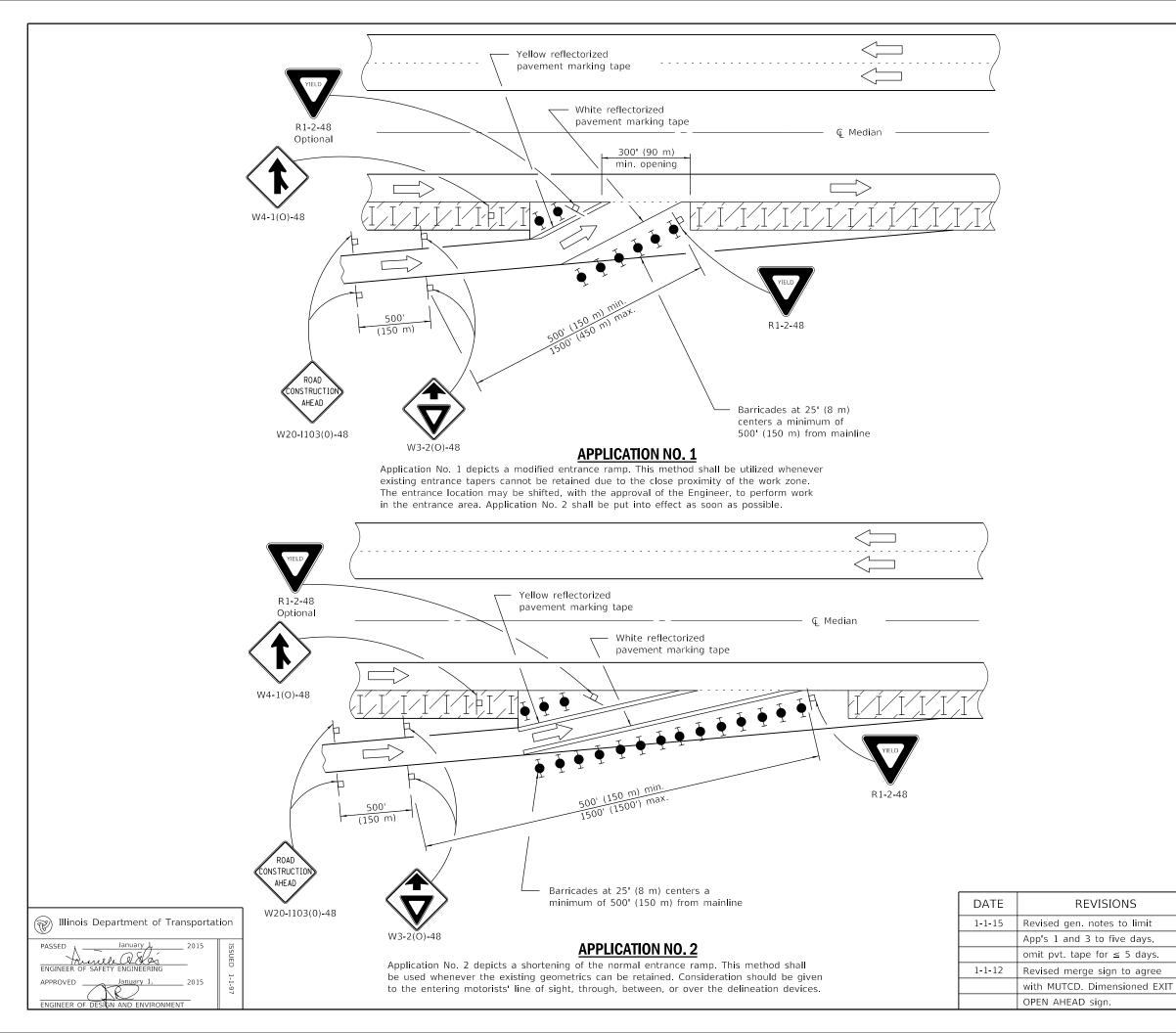
OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY

STANDARD 701106-02





SIONS		
with spotter.	LANE CLOSURE,	
	FREEWAY / EXPRESSWAY	
tangent.	INLLWAT/ LAFALSSWAT	
	STANDARD 701401-12	



SYMBOLS



Work area



Sign

- Type II barricades or drums with steady burning monodirectional light
- Type II barricades or drums
- \bullet Drums with steady burning monodirectional light

GENERAL NOTES

This Standard is used where, at any time any vehicle, equipment, workers or their activities require a lane closure in close proximity of an exit or entrance ramp and supplements other traffic control Standards for lane closures.

These applications also apply when work is being performed in the left lanes and the ramps enter and exit on the left. Under these conditions, the Exit sign arrow and the Side road symbol sign shall be changed.

Cones may be utilized during daylight operations, at one half the spacing of drums/barricades.

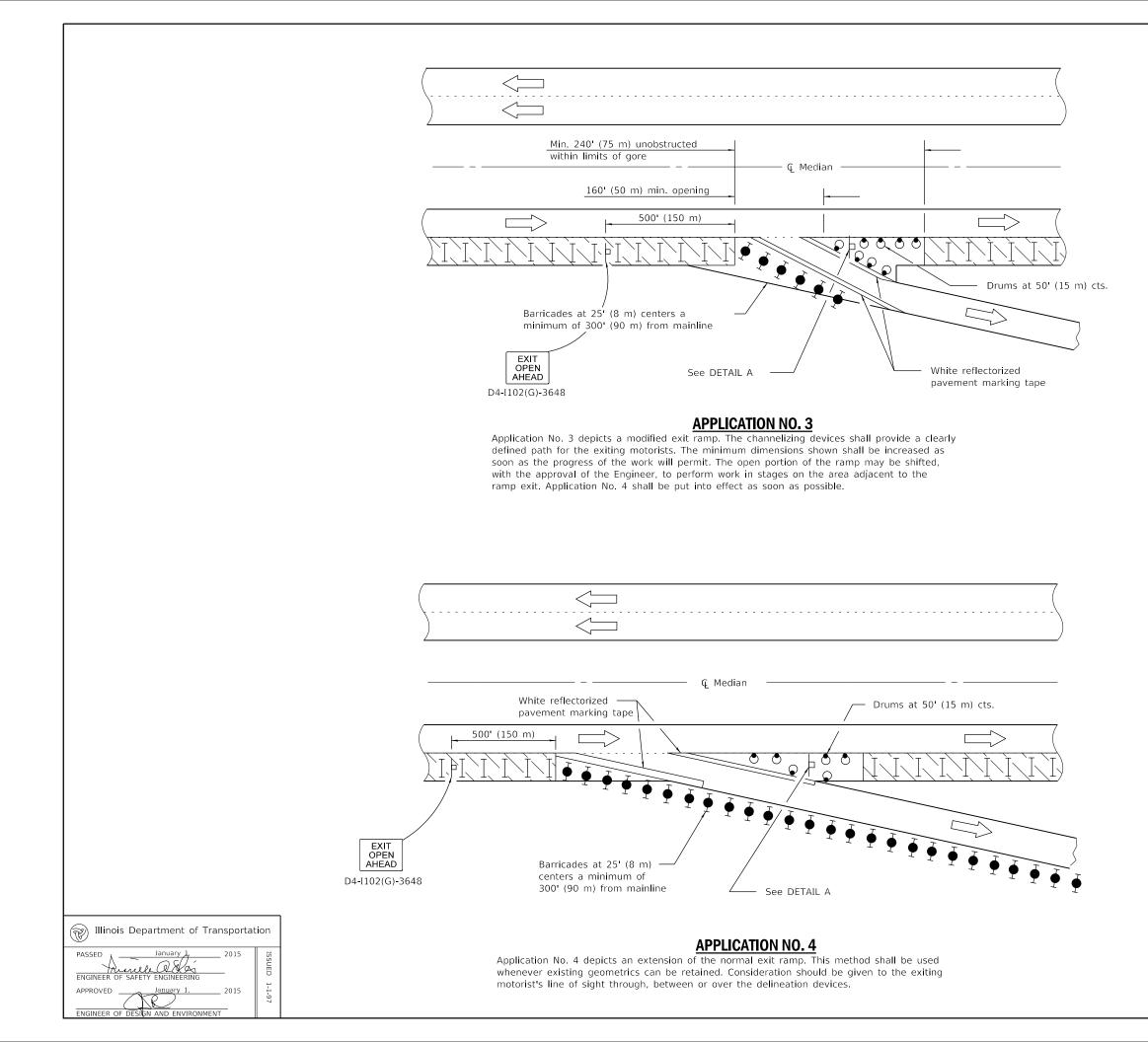
Use of these APPLICATION NO. 1 and APPLICATION NO. 3 shall be limited to five days per location.

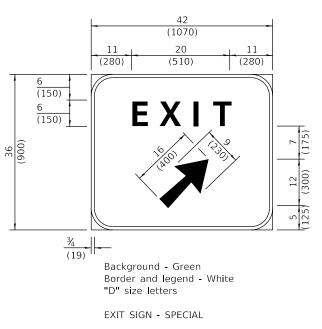
When work does not exceed five days, pavement marking tape may be omitted.

All dimensions are in inches (millimeters) unless otherwise shown

LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH (Sheet 1 of 2)

STANDARD 701411-09



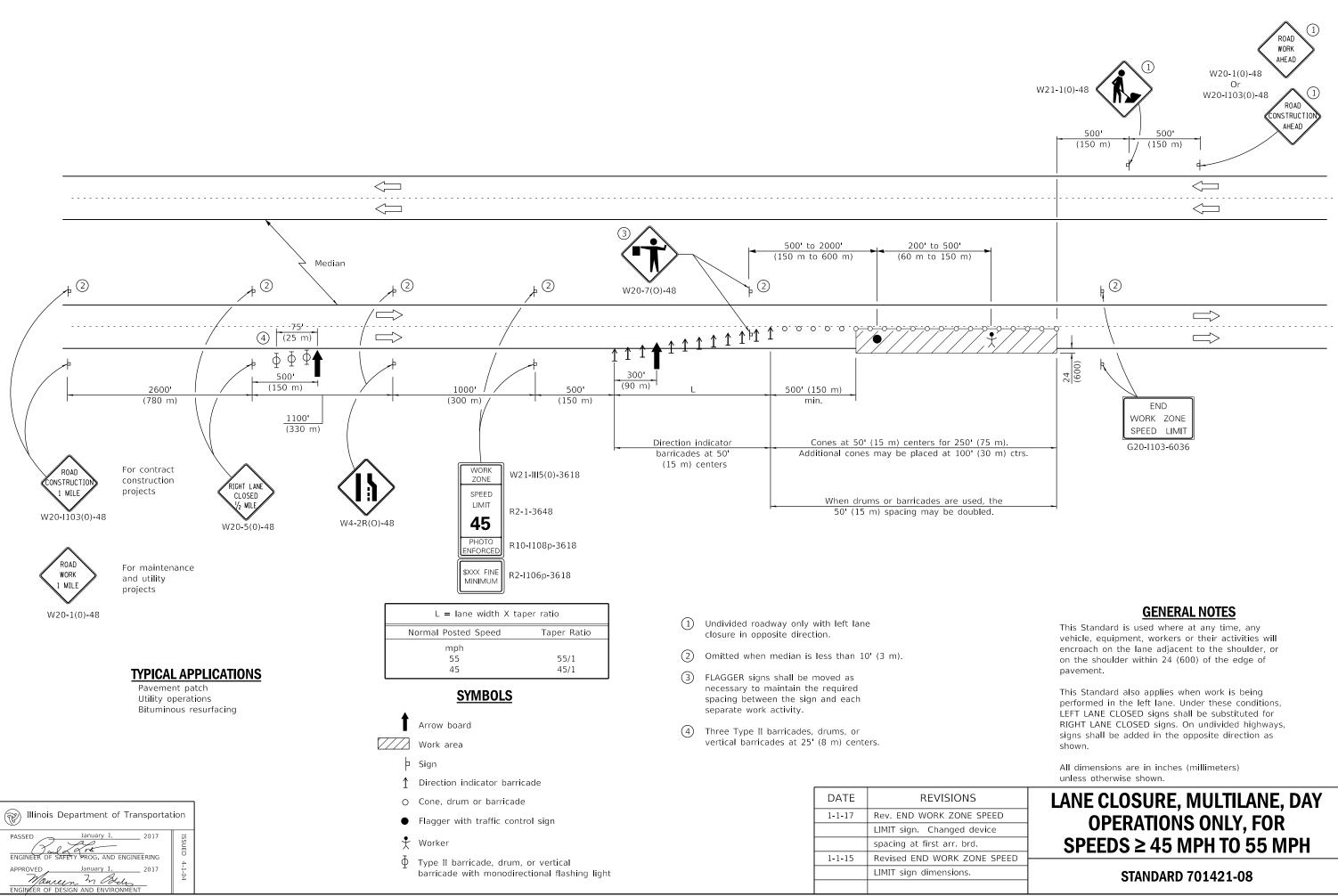


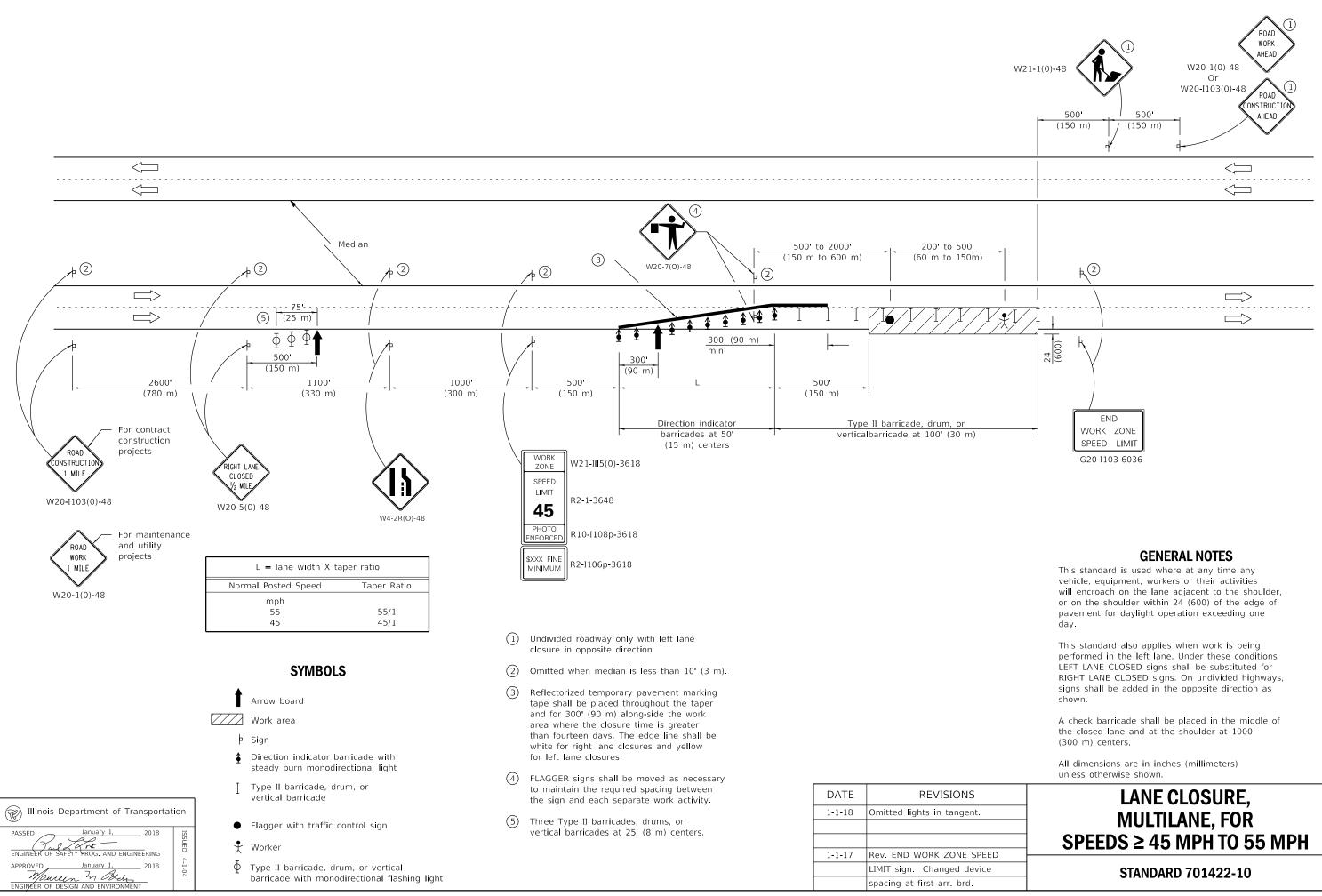
<u>DETAIL A</u>

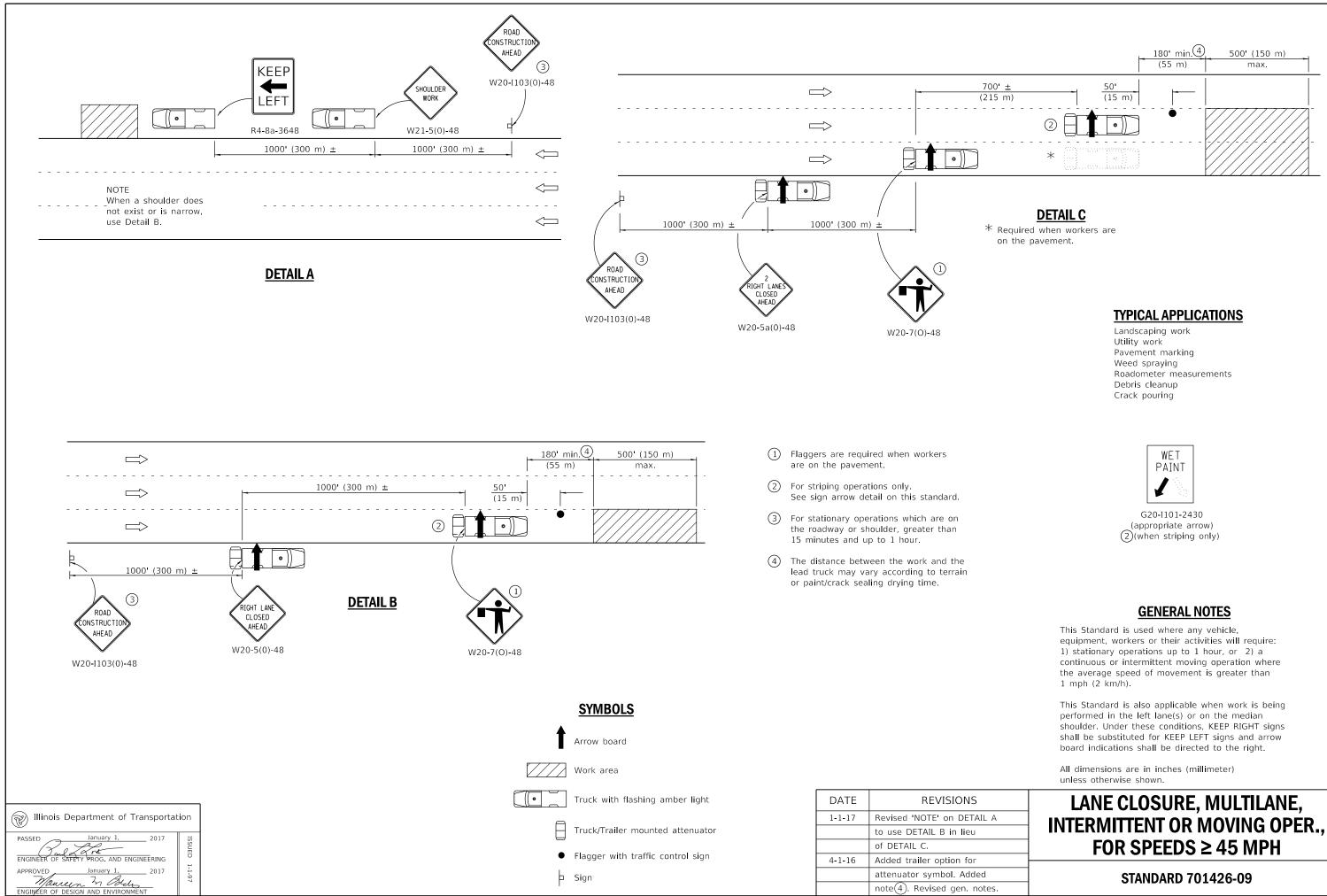
(To be utilized where distance between the two rows of channelizing devices is 6' (1.8 m) in width.)

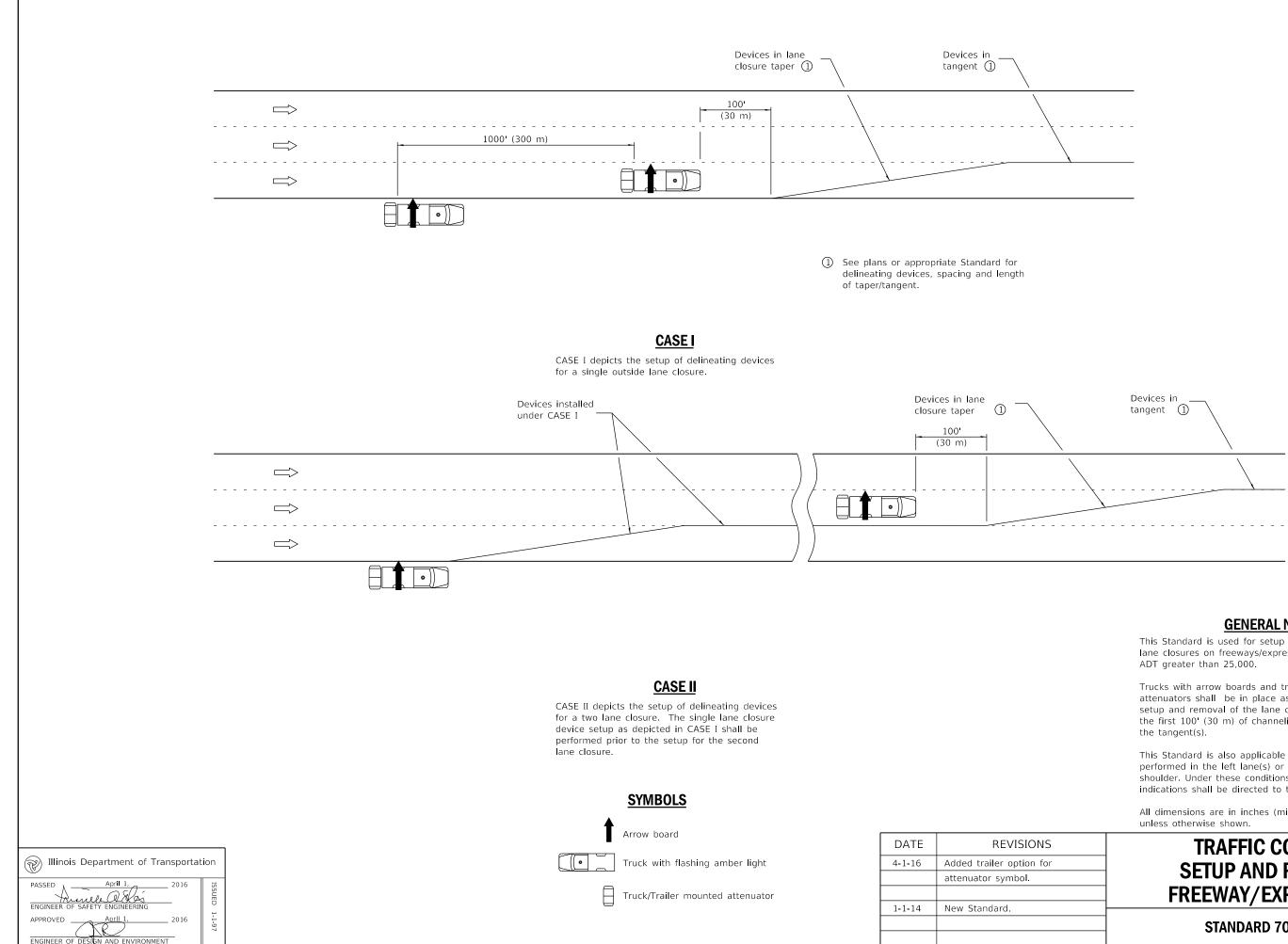
LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH (Sheet 2 of 2)

STANDARD 701411-09









GENERAL NOTES

This Standard is used for setup and removal of lane closures on freeways/expressways having

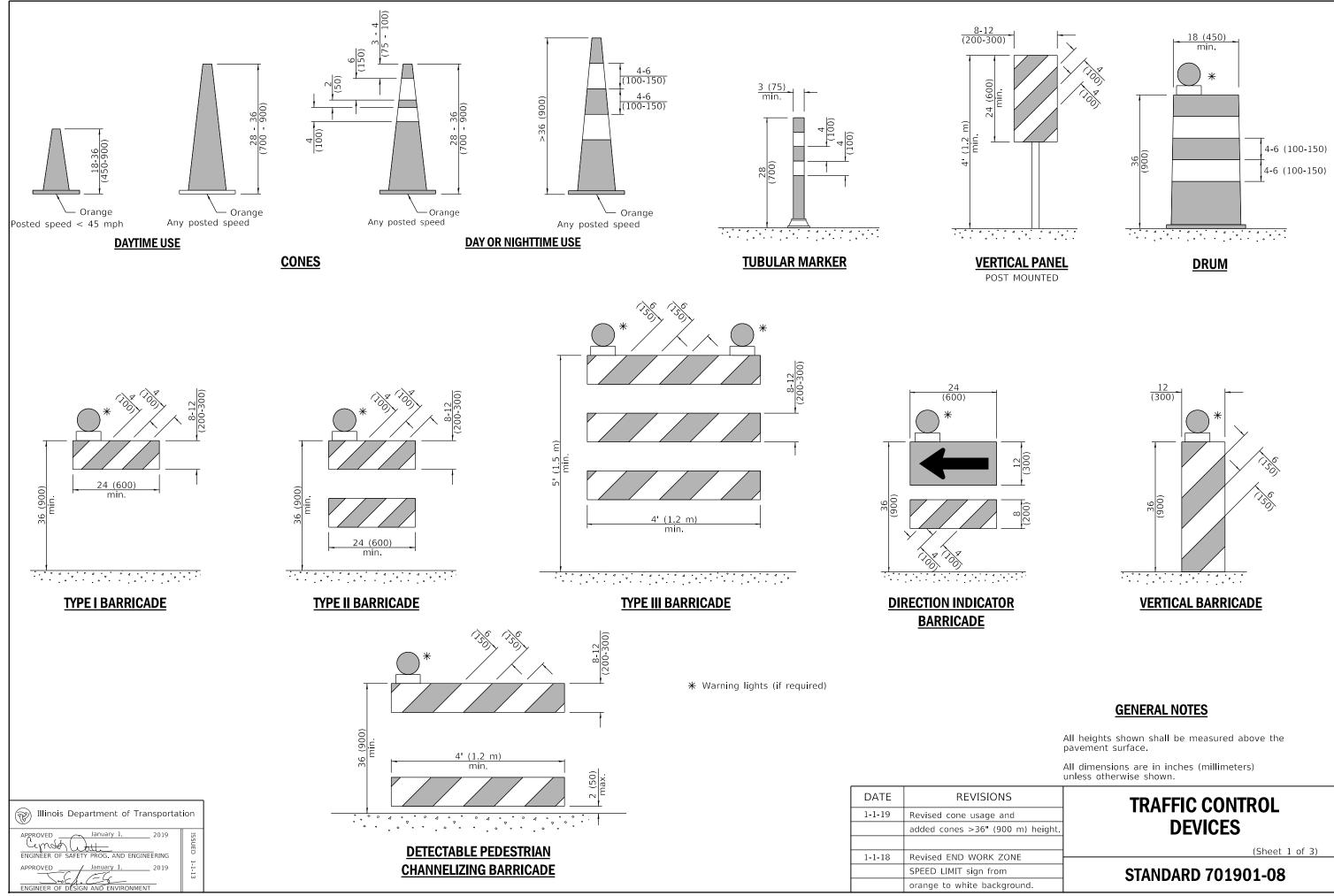
Trucks with arrow boards and truck-mountedattenuators shall be in place as shown for the setup and removal of the lane closure taper(s) and the first 100' (30 m) of channelizing devices in

This Standard is also applicable when work is being performed in the left lane(s) or on the median shoulder Under these conditions arrow board indications shall be directed to the right.

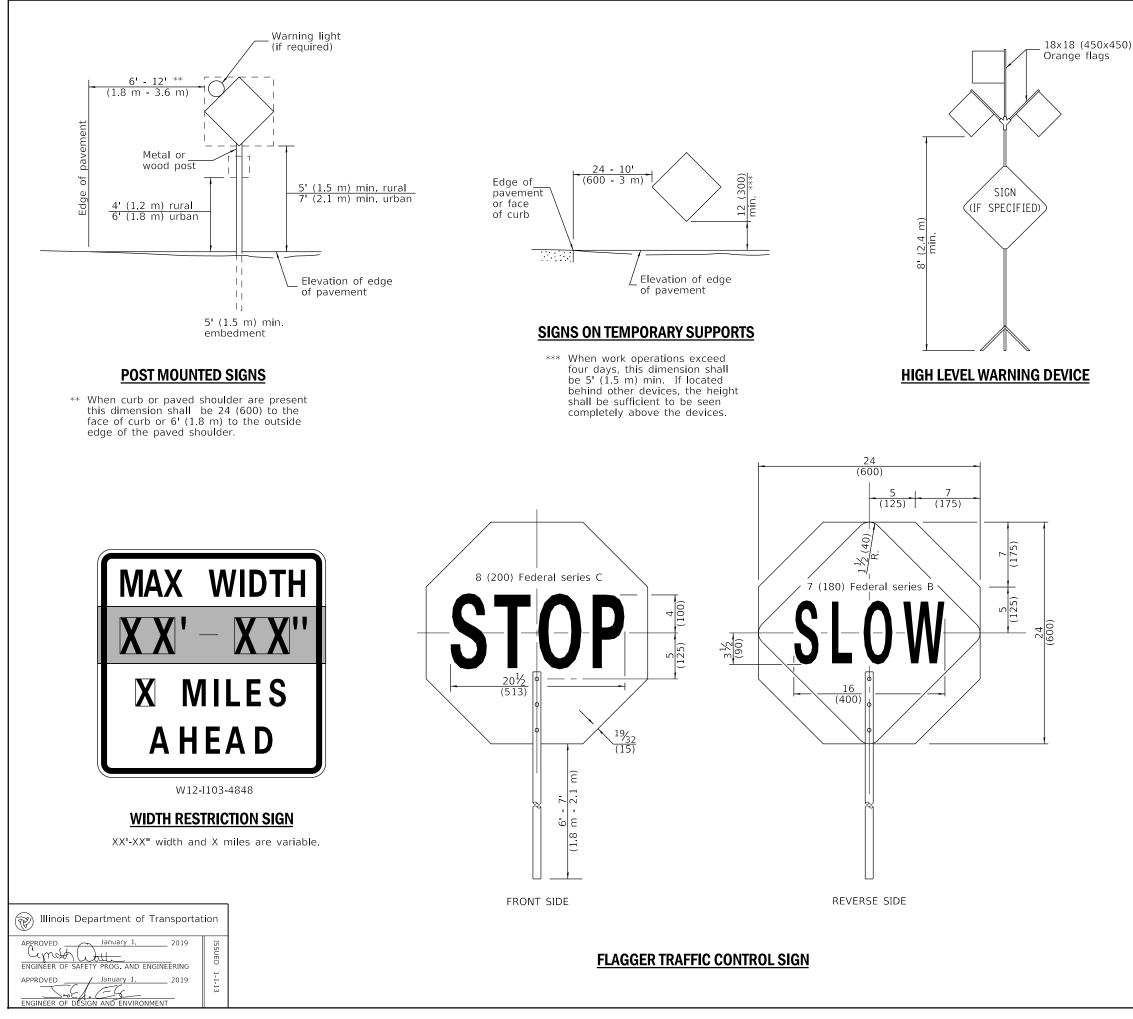
All dimensions are in inches (millimeter)

TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY

STANDARD 701428-01



IONS				
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" (900 m) height.				
rk zone				
from				
ackground.				







G20-I104(0)-6036

G20-I105(0)-6024

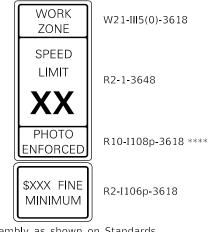
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multilane highways.

WORK LIMIT SIGNING



Sign assembly as shown on Standards or as allowed by District Operations.



G20-I103-6036

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the juristiction of the State.

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-08

