D-98-078-20

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI 270 ROUTE I-270 SECTION 60-4VB-BP-1 PROJECT NHPP-LGF3(688) **BRIDGE PAINTING MADISON COUNTY**

C-98-091-20

R 8 W

TRAFFIC DATA (SN 060-0052, WB) 2020 ADT = 22700

FOR INDEX OF SHEETS, SEE SHEET NO. 2

2040 ADT = 26600

SU = 2.2% MU = 20.0%

TRAFFIC DATA (SN 060-0051 EB)

2020 ADT = 19500 2040 ADT = 22800

SU = 2.5% MU = 18.1%

PROJECT LOCATION 1-270 1.4 MILES EAST OF IL 157 OVER MCT TRAIL & CREEK SN 060-0051 (EB) SN 060-0052 (WB) LATITUDE: 38.756699 LONGITUDE: -89.980868



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

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER: TIM PADGETT (618) 346-3325 PROJECT MANAGER: RAHSHUN J MILLER (618) 346-3196 Glen Carbon POP. 11,799

NOT TO SCALE

GROSS LENGTH = 272 FT. = 0.051 MILE NET LENGTH = 272 FT. = 0.051 MILE

CONTRACT NO. 76N45

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS

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INDEX OF SHEETS

- COVER SHEET
- INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS, COMMITMENTS AND DETAILED LOCATION MAP

- 4-12 EXISTING STRUCTURE DETAILS SN 060-0051 & SN 060-0052 (FOR INFORMATION ONLY)

GENERAL NOTES

- 1. THE FOLLOWING UTILITIES ARE KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

 - * AMEREN ILLINOIS -- GAS & ELECTRIC (AERIAL AND BURIED) * AT&T ILLINOIS -- COMMUNICATIONS (AERIAL AND BURIED) * BOND MADISON WATER COMPANY -- WATER (BURIED)

 - * BOND MADISON WATER COMPANY -- WATER (BURIED)

 * BUCKEYE PARTNERS L.P. WOOD RIVER PIPELINE -- PIPELINE (BURIED)

 * CHARTER COMMUNICATIONS, INC -- CABLE TV (AERIAL AND BURIED)

 * CONSOLIDATED COMMUNICATIONS -- COMMUNICATIONS (AERIAL AND BURIED)

 * ENABLE MIDSTREAM PARTNERS -- PIPELINE (BURIED)

 * LEVEL 3 COMMUNICATIONS, LLC -- COMMUNICATIONS (AERIAL AND BURIED)

 * SOUTHWESTERN ELECTRIC COOPERATIVE, INC. -- ELECTRIC (AERIAL & BURIED)

 * VILLAGE OF GLEN CARBON -- WATER & SANITARY SEWER (BURIED)

 * VERIZON BUSINESS -- COMMUNICATIONS (AERIAL AND BURIED)

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.

- 2. THE SSPC-OP1 AND SSPC-OP2 CERTIFICATIONS WILL BE REQUIRED FOR THE BRIDGE.
- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND DEPART OF RECORD PROPURTIES OF THE PROPERTY. READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- EXISTING STRUCTURAL DETAILS FOR SN 060-0051 AND 060-0052 ARE LOCATED WITHIN THE PLANS AND SPECIAL PROVISIONS IN THE CONTRACT DETAILS ON THE WEBSITE.
- NO LANE CLOSURES WILL BE PERMITTED ON I-270.
- A MINIMUM OF TWO AIR MONITORS WILL BE REQUIRED AT EACH STRUCTURE TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES."
- FOR BOTH STRUCTURES, CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL EXISTING STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SPPC-SP10. ALL EXISTING STEEL SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-OZ/E/U. THE COLOR OF THE FINAL FINISH COAT SHALL BE GRAY (MUNSELL NO. 5B 7/1)
- 9. THE CONTRACTOR SHALL EXECUTE A TEMPORARY RIGHT OF ENTRY WITH MCT PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 10. IF A WORKING PLATFORM IS USED, THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS. THAT ASSURE THE STRUCTURAL INTEGRITY OF THE BRIDGE UNDER THE LIVE AND DEAD LOADS IMPOSED, INCLUDING THE DESIGN WIND LOADING. COST WILL BE INCLUDED IN THE PAY ITEM, "Containment and disposal of lead paint cleaning residues".
- 11. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING THE STATE OWNED FIBER OPTIC CABLE ON THE OUTSIDE FASCIA BEAM ANY DAMAGE INCURRED SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- 12. NEW GUIDELINES FOR THE INDIANA BAT AND THE NORTHERN LONG EARED BAT ARE BEING MANDATED BY THE US FISH AND WILDLIFE SERVICE.

IF CONSTRUCTION ACTIVITY IS PLANNED DURING THE INDIANA BAT AND NORTHERN LONG EARED BAT ACTIVE SEASON - FROM APRIL 1 THROUGH SEPTEMBER 30 - THE DEPARTMENT WILL PERFORM A FINAL INSPECTION OF THE BRIDGE NO MORE THAN 7 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITY TO ENSURE BATS HAVE NOT STARTED TO USE THE AREA OF THE BRIDGE PROPOSED FOR WORK AFTER THE DEPARTMENT'S ORIGINAL INSPECTION.

IF THE BATS ARE FOUND ON THE BRIDGE, THE ENGINEER SHALL CONTACT JENNIFER HUNT (918-346-3156) IN THE DISTRICT 8 OFFICE. SHE WILL NOTIFY THE BUREAU OF DESIGN ENVIRONMENT BIOLOGY SECTION AND THEY WILL TASK SOMEONE FROM THE ILL NATURAL HISTORY SURVEY TO INSPECT THE BRIDGE TO DETERMINE IF THE BATS ARE THE INDIANA BATS OR THE NORTHERN LONG EARED BAT. IF THE INDIANA BAT OR THE NORTHERN LONG EARED BAT ARE AREA THE BATS ARE LOCATED UNTIL OCTOBER 1. THE CONTRACTOR WILL BE ABLE TO WORK IN OTHER AREAS OF THE BRIDGE BUT NOT IN THE AREAS WHERE THE BATS ARE LOCATED. THE WORK AREA RESTRICTION DOES NOT APPLY TO OTHER NON-THREATENED OR ENDANGERED BATS FOUND ON THE BRIDGE

PROJECTS WHERE WORK IS STARTED BEFORE APRIL 1 OF EACH YEAR WILL NOT REQUIRE AN INSPECTION OF THE BRIDGE FOR BATS.

THE DEPARTMENT STRONGLY SUGGESTS THAT THE CONTRACTOR COORDINATE THEIR WORK ACTIVITIES WITH THE ENGINEER AND START WORK BEFORE APRIL 1 OF EACH YEAR TO AVOID DELAYS DUE TO THE INSPECTION AND PRESENCE OF BATS. GAPS IN WORK ACTIVITIES FROM APRIL 1 TO SEPTEMBER 30 COULD CAUSE FOR ADDITIONAL BAT INSPECTIONS.

	GRAFFITI REMOVAL SCHEDULE						
STRU	CTURE	LOCAT	TION	AREA			
		FACT MACCE DIED	WEST FACE	8'X30'			
EB	060-0051	EAST MOST PIER	NORTH FACE	3'X3'			
		MIDDLE PIER	WEST FACE	15'X6'			
\A/D	060 0053	FACT MOST DIED	WEST FACE	37'X6'			
WB	060-0052	EAST MOST PIER	SOUTH FACE	3'X4'			

COMMITMENTS: NONE

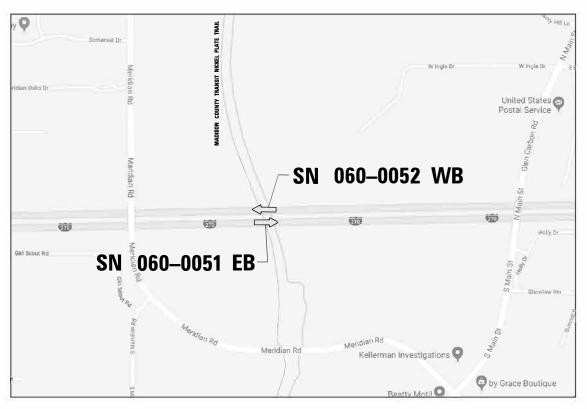
HIGHWAY STANDARDS

000001-07

701006-05

STANDARD SYMBOLS, ABBREVATIONS AND PATTERNS
DECIMAL OF ANY INCH AND OF A FOOT
OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
OFF ROAD OPERATIONS MULTILANE LESS THAN 15 FT TO 24' FROM PAVEMENT EDGE
TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

DETAILED LOCATION MAP



NOT TO SCALE

REV-SEP

MADISON 12

CONTRACT NO. 76N45

COUNTY

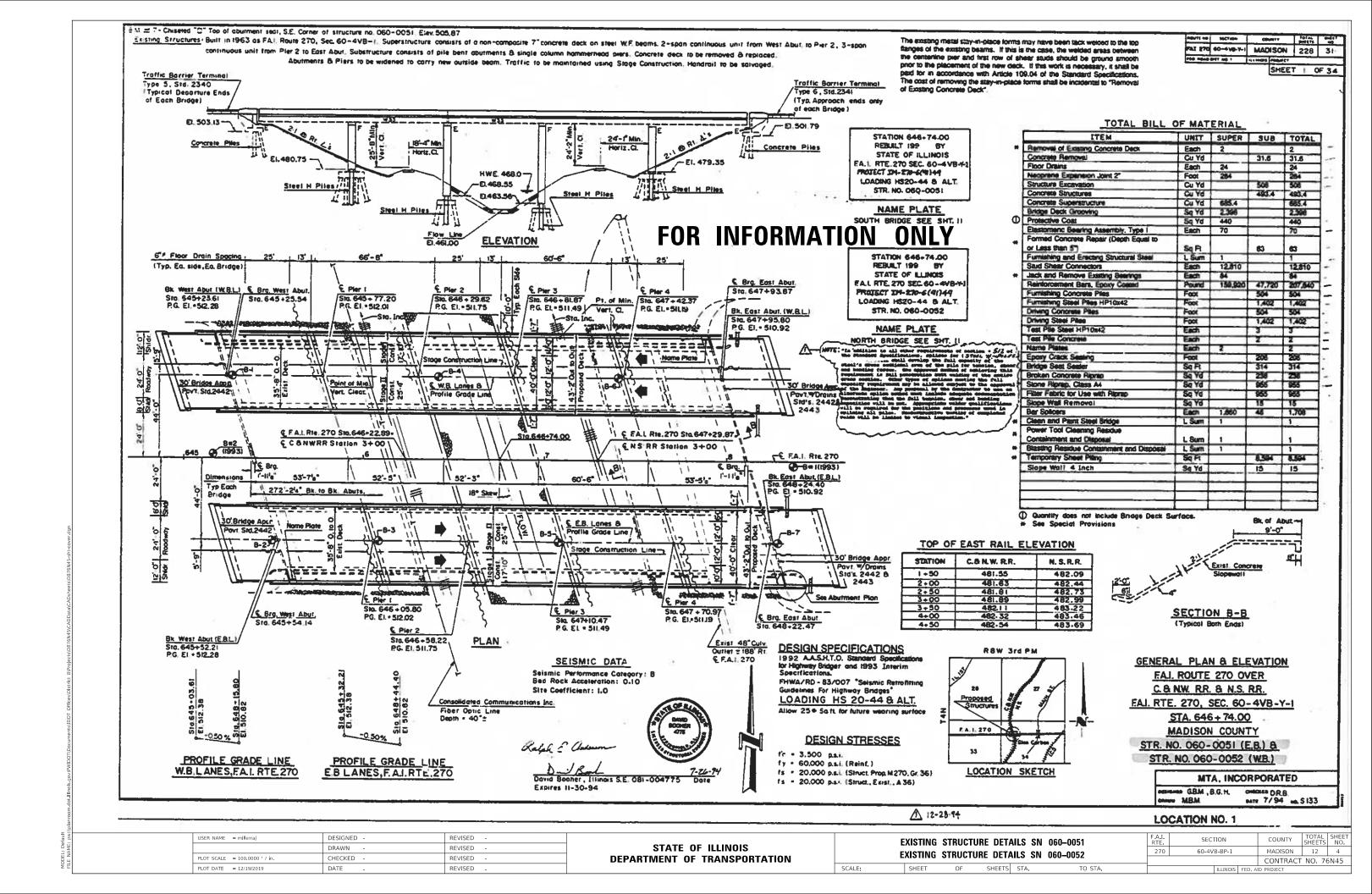
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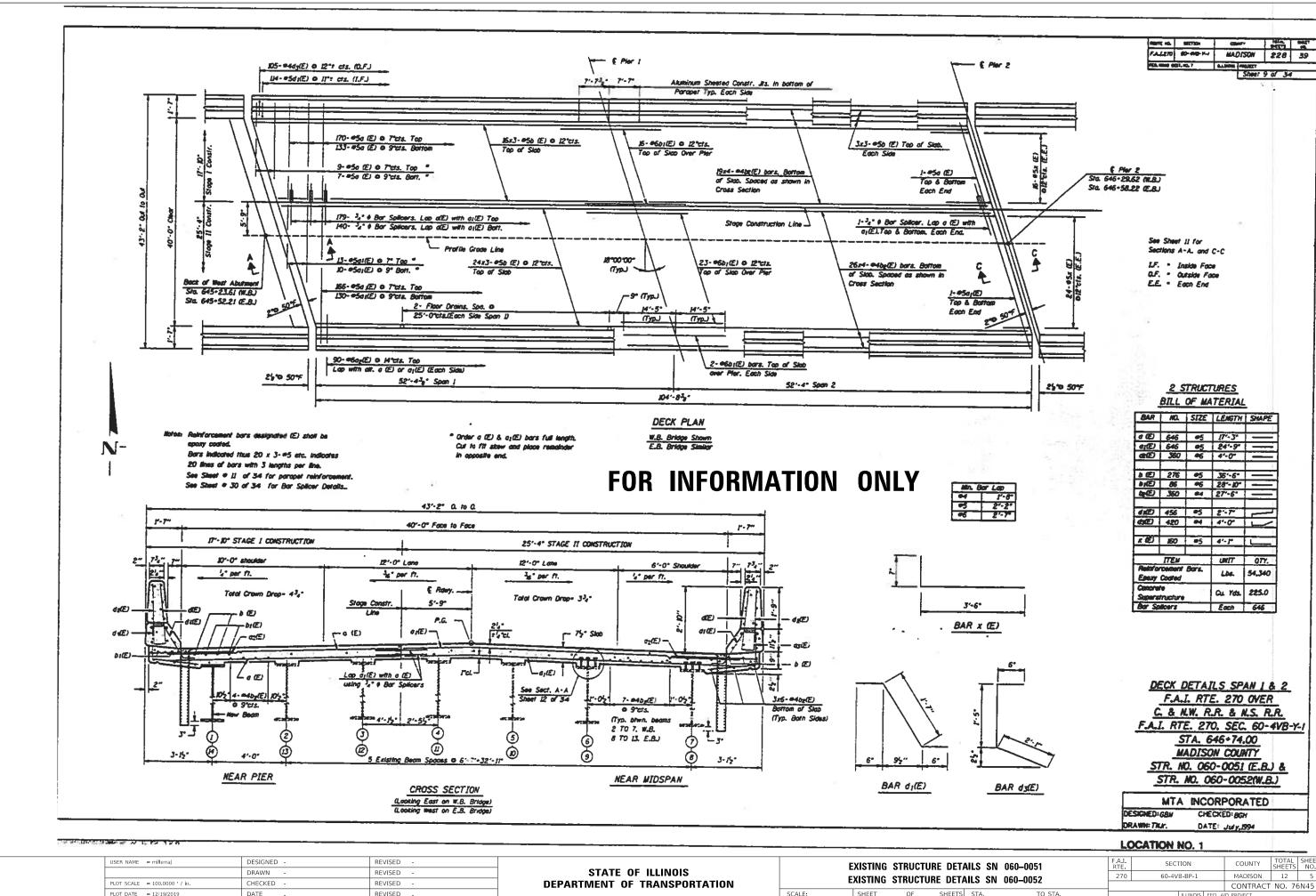
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS, 60-4**V**B-BP-1 **COMMITMENTS AND DETAILED LOCATION MAP** SHEET 1 OF 1 SHEETS STA. ILLINOIS | FED. AID PROJECT

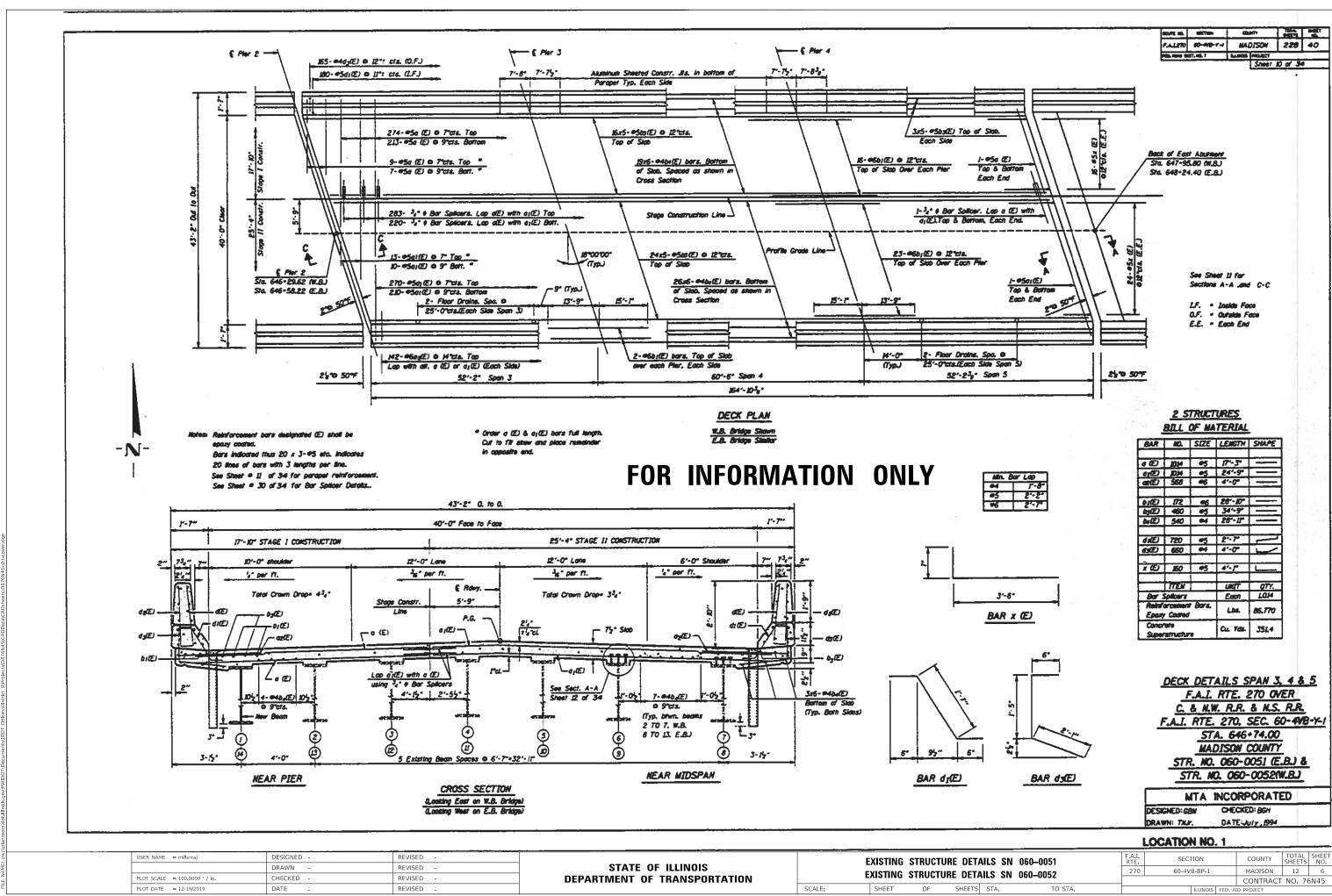
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/15/2020	DATE -	REVISED -

								F.A.I. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
			SUMI	WAH	Y OF Q	UANTITIE	:S	270	60-4VB	3-BP-1		MADISON	12	3
												CONTRACT	NO. 76	5N45
SCALE: NTS	SHEET	1	OF	1	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

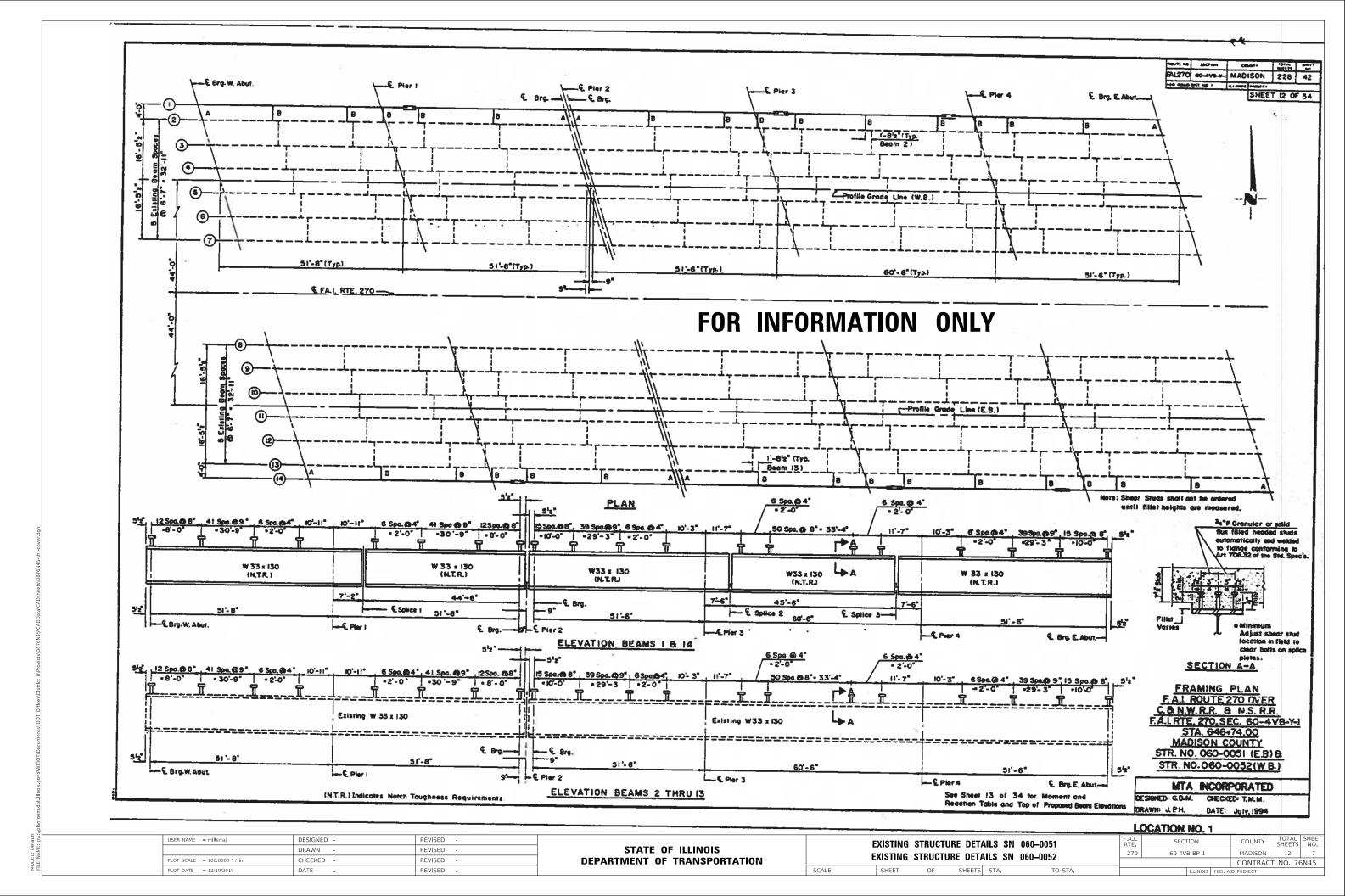


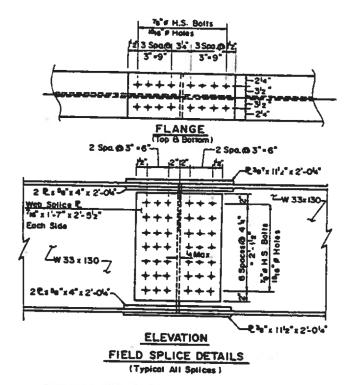


CONTRACT NO. 76N45



MODEL: Default





(All splice plates shall conform to Notch Taughness Requirements.)

ELEVATIONS - TOP OF BEAM (For Februation Ores)

	€ Brg. W. AbuL	€ Brp. Pler 1	Splice 1	€ Brg. Pler 2	CL Big. Plor 3	Splice 2	Splice 3	E Brg.	€ Big. E. Abul.
Beam 1	511,18	510.69	\$10.05	510.63	510.32	510.27	510.06	510.04	509.88
Beam 14	\$11.09	510.80	510-76	510.55	510.23	51018	509.93	509.90	509-68

FOR INFORMATION ONLY

			INTE	RIOR GI	ROER M	OMENT !	TABLE			
		0.4 Sp. 1	Plor 1	0.6 Sp. 2	Pler 2	0,4 Sp. 3	Pler 3	0.5 Sp. 4	Plor 4	0.6 Sp. 5
le .	(fn ")	6,710	6,710	6,710	-	6,710	6,710	8,710	6,710	8,710
ic (n)	(in ")	17,061	-	17,051		17,061		17,061	-	17,061
te(Dr.)	(in ")	12,506		12,508	-	12,506	-	12,506	-	12,506
Se 🗟	(in ")	406	406	406	-	406	406	406	406	408
80(n)	an h	563	_	583		583	-	583	-	583
So(3n)	(m ²)	527	-	527		527	-	527	T-	527
6	(IPL)	0.79	1.07	0.79		0.79	1.07	0.79	1,07	0.79
ME	(N)	147.9	340.8	147,9	-	152.3	324.7	113.2	324.7	152.3
ts C-phon-com	(m0)(.q	437	10.08	4.37	-	4.51	9.61	3.35	9.61	4.51
98	(PL)	0.283	•	0.283	-	0.283		0.283		0.283
R.S	(10	59.9		59.9	-	59.7		53.6		59.7
p & (comp.)	(tal)	1.37		1.37	-	1.36		1,22		1.36
M &	(N)	335.1	170.9	335.1	-1	335.3	181.7	348.2	181.7	335.3
M (Imp)	(10)	94.8	48,4	94.5		94.9	50.1	93.5	50.1	94.9
forthe impl	(M2F)	6.85	6.49	8.06	-	8.86	8.86	9.08	6.06	8.86
(iow)	(test)	14.60	16.57	14,60	-	14,73	18.47	13.63	16.47	14.73
R	(8)	47.3	- 1	47.3	-	47.8	-	37.2	_	47.8

			INTERIOR	GIRDER RE	ACTION T	MBLE		
		W. Abut	Plor 1	Pler 2 Span 2	Pier 2 Span 3	Pler 3	Plor 4	E Abu
RŁ	(04)	21.2	68.7	21.2	21.4	96.5	66.5	21,4
R Ł	6 2	34.2	39.6	34.2	34.2	39.9	39.9	34.2
A lmp.	(00)	9.7	11.3	9.7	9.7	11.0	11.0	9.7
R (Tata	100	65.1	119.8	65.1	65.3	117.4	117.4	65.3

is and Ss are the moment of inertia and section modulus of the steel section used in computing is (total and over lead).

Ic(n), Ic(3n), Sc(n) and Sc(3n) are the moment of thertio and section modulus of the composite section used in computing Stresses due to line land.

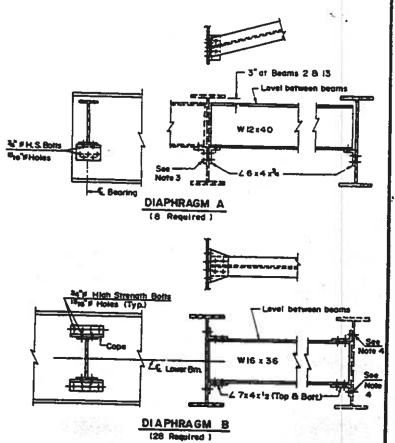
VR is the maximum & + impact shear range in span.

Ician and Scian are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

Ma (Applied Moment)=1.3[$M \stackrel{\circ}{=} - M \stackrel{\circ}{=} 0 \stackrel{\circ}{=$

10 MP - MSP -53(M t - M mp).

fs (Total) (Non-compact section) is the sum of the stresses due to L3[MP - Ms P - 5][M L - M ms]].



SHEET IS OF 34

NOTES:

- [. For disphragm connections use ¹⁵16"# holes and two hardened washers over oversize holes.
- 2. Remove existing botts to existing beam. Field drill ¹⁸hs —d holes in new angle using toles in existing beam as a template. Existing botts are to be replaced with ³a" d H.S. botts. Cost of Bott Removal and Field Drilling is incidental to "Courage of Field Drilling is
- incidental to "Structura! Steel".

 3. Field drill "Sic" of hotes in existing beam using new angle as a template.

 Cost of Field Drilling is incidental to "Structural Steel".

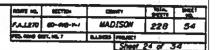
BEAM DETAILS
F.A. I. ROUTE 270 OVER
C.8 N.W. R.R. 8 N.S. R.R.
F.A. I. RTE, 270, SEC. 60-4VB-Y-I
STA, 646+74.00
MADISON COUNTY
STR. NO. 060-0051 (E.B.) 8
STR. NO. 060-0052(W.B.)

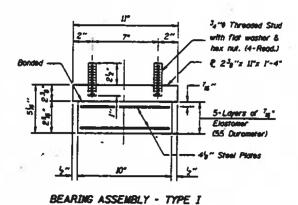
MTA	INCORPORATED
DESIGNED: G.B.M.	CHECKEDI T.M. M.
ORANN: J.PH	DATE: July, 1994

LOCATION NO. 1

USER NAME = millerraj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/19/2019	DATE -	REVISED -

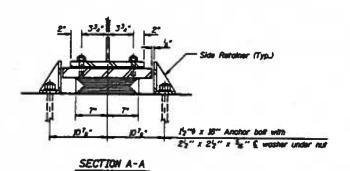
F.A.I. RTE	SECT	ΓΙΟΝ			COUNTY	TOTAL SHEETS	SHEET NO.
270	60-4V	B-BP-1			MADISON	12	8
					CONTRACT	NO. 76	5N45
		ILLINIOIC.	EED.	Α.	D DDOLECT		

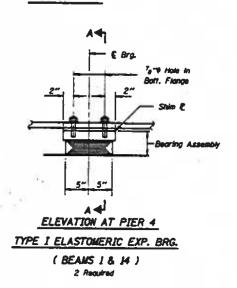




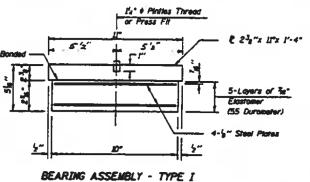
totes Ship plates shall not be placed

(BEAMS 1 & 14)



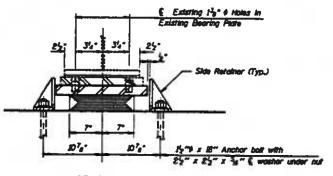


FOR INFORMATION ONLY

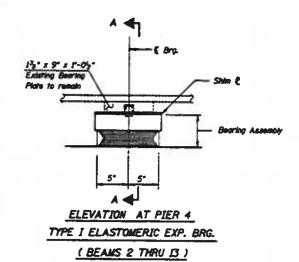


(BEAMS 2 THRU 13)

Note: Shim plates shall not be placed under Bearing Assembly.

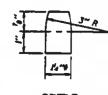


SECTION A-A

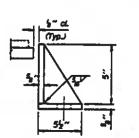


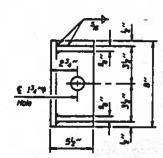
MOTES: Cost of Side Retainers, Sole Plates, Shim Plates, Planes and Anchor Bolts shall be included in the unit price per pound for "Furnishing & Erecting Structural Steel."

SCALE:



PINTLE





SIDE RETAINER

Equivalent rolled copie with attitioners off be allowed in lieu of welded plates. (28 Required)

For Anchor Boltz Installation database Sheet 29 of 34

BILL OF MATERIAL

		,,,,		-
			UNIT	TOTAL
	Elastomeric Bearing Assembly, Type I		Each	н
•	Jack and Resove			
	Existing Bearings	•	Each	

See Sheet 27 of 34 for Jacking and Removing of Existing Bearings Procedure.

PIER 4

TYPE I ELASTOMERIC

BEARING DETAILS

F.A.I. RTE. 270 OVER

C. & N.W. R.R. & N.S. R.R.

F.A.I. RTE. 270. SEC. 60-4VB-Y-I

STA. 646-74.00

MADISON COUNTY

S.N. 060-0051 (E.B.) &

S.N. 060-0052 (W.B.)

MTA INCORPORATED

DESIGNED: GBM CHECKED: BGH

DRAWN: Thur. DATE: JANY,894

LOCATION NO. 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 060-0051
EXISTING STRUCTURE DETAILS SN 060-0052

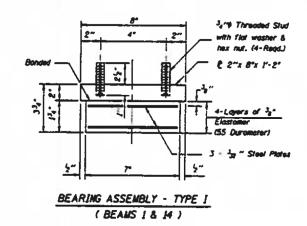
 F.A.I. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS
 NO.

 270
 60-4VB-BP-1
 MADISON
 12
 9

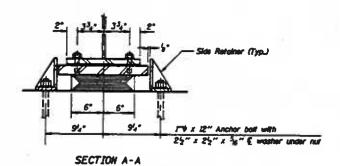
 CONTRACT
 NO.
 76N45

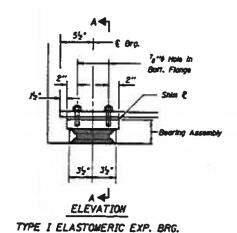
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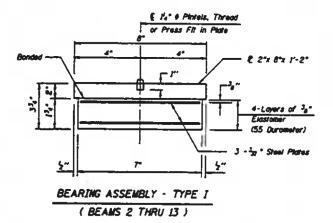
Moter Shim plates shall not be placed under Bearing Assembly.



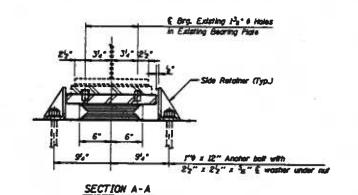


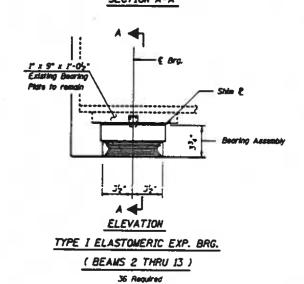
(BEAMS 1 & 14)

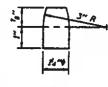
6 Regulred



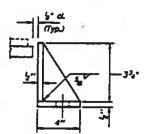
Note: Shim plates shall not be placed under Bearing Assembly.

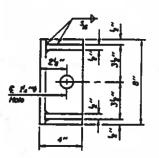






PINTLE





SIDE RETAINER Equivalent rolled angle with attitioners will be allowed in lieu of weided plates. (84 Required)

BILL OF MATERIAL

			-
П	ITEM	UNIT	TOTAL
1	Elestemento Bearing Assembly, Type I	Each	42
1	Jack and Remove Existing Bearings	Each	36

See Sheet 27 of 34 for Jacking and Remarking of Existing Bearings Procedure.

For Anotor Bolt Installation details See Sheet 29 of 34 .

WEST ABUT... PIER 2 (SPAN 2)

& PIER 2 (SPAN 3)

TYPE I ELASTOMERIC

BEARING DETAILS

F.A.I. RTE. 270 OVER

C. & N.W. R.R. & N.S. R.R.

F.A.I. RTE. 270, SEC. 60-4VB-Y-1

STA. 646+74.00

MADISON COUNTY

S.N. 060-0051 (E.B.) &

S.N. 060-0052 (N.B.)

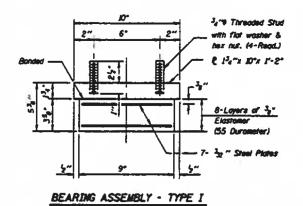
MOTES: Cost of Side Retainers, Sole Pidres, Shim Pidres, Pidres and Anctor Botts shall be included in the unit price per pound for "Furnishing & Erecting Structural Steel."

	MTA	INCORPORATED
DESIGNED	CSM	CHECKED: BGH
DRAWN:	THU.	DATE July, 894

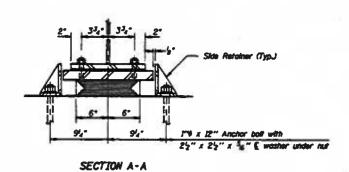
FOR INFORMATION ONLY

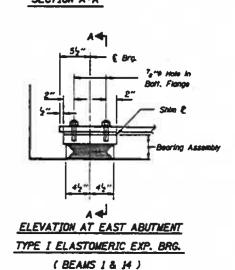
TOTAL INTERNATION CITE	Plates and Anchor Batts shall be included in the ur per pound for "Furnishing & Erecting Structural Si
	1000 10

Noting as as to the time.							
USER	R NAME = millerraj	DESIGNED -	REVISED -		EXISTING STRUCTURE DETAILS SN 060-0051	F.A.I. SECTION	COUNTY TOTAL SHEET
		DRAWN -	REVISED -	STATE OF ILLINOIS		270 60-4VB-BP-1	MADISON 12 10
PLOT	SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE DETAILS SN 060-0052		CONTRACT NO. 76N45
PLOT	Γ DATE = 12/19/2019	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. F	AID PROJECT

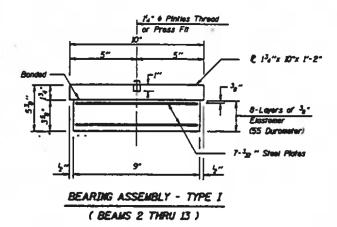


(BEAMS 1 & H)

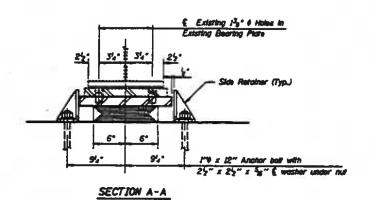


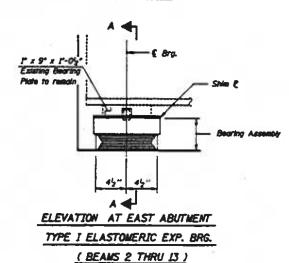


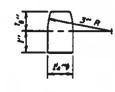
2 Required



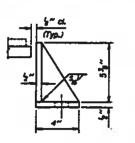
under Bearing Assembly.

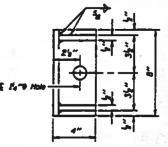






PINTLE





SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in the of weight plates CES Received)

For Anchor Bolt Installation details

BILL OF MATERIAL

1	ITEM	UNIT	TOTAL
	Electomento Bearing Assembly, Type I	Each	н
•	Jack and Remove Existing Bearings	Each	2

* See Sheet 27 of 34 for Jacking and Red Existing Bearings Procedure.

EAST ABUTMENT TYPE I ELASTOMERIC F.A.I. RTE. 270 OVER C. & M.W. R.R. & M.S. R.R. F.A.I. RTE. 270. SEC. 60-4VB-Y-I STA. 646+74.00 MADISON COUNTY S.N. 060-0051 (E.B.) & S.N. 060-0052 (W.B.)

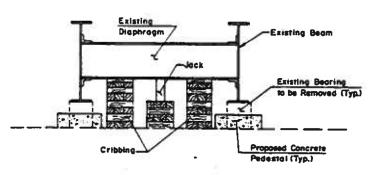
MOTES: Cost of Side Retainers, Sole Plates, Shim Plates, Plates and Anchor Balts shall be included in the unit price

	MTA	INCORPORATED
ESIGNED:	GBM	CHECKED: 8GH
RAWN: 7	Wr.	DATE: July, 1994

FOR INFORMATION ONLY

per pound for "Furnishing & Erecting Structural Steel." **LOCATION NO. 1**

CONTRACTOR OF A 12 THE WAY DESIGNED REVISED USER NAME = millerraj COUNTY **EXISTING STRUCTURE DETAILS SN 060-0051** STATE OF ILLINOIS DRAWN REVISED 60-4VB-BP-1 MADISON 12 11 **EXISTING STRUCTURE DETAILS SN 060-0052** CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 76N45 PLOT DATE = 12/19/2019 DATE REVISED



ELEVATION AT JACK (Typical Between Existing Beams)

* PROCEDURE FOR JACKING AND REMOVING OF EXISTING

Jacking operations shall be limited to removing of existing bearings, construction of new concrete padestals as shown in the plans, and installing new bearings.

After the concrete deck has been removed; beams shall be jacked and critibed, existing bearings shall be removed, new concrete pedestals shall be constructed as shown in the plane, and new bearings shall be installed. Jacks shall be lowered before new concrete deck is

Maximum lift = 1" to clear pintles. Lift beams simultaneously in 1/4" increments.

Anchor bolts shall be removed or cut off and ground flush with the top of concrete. If anchor boits are removed, existing holes shall be filled with non-shrink grout.

With new bearings in position, new holes shall be drilled through base plates for new anchor bolts.

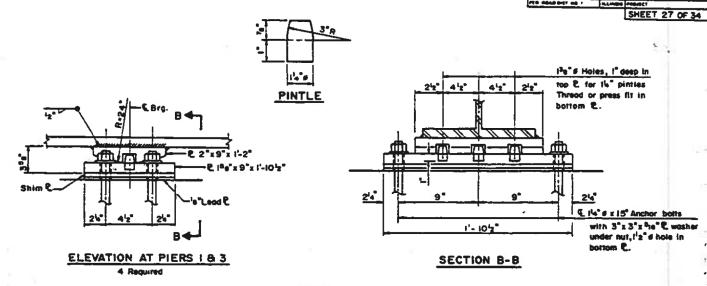
The maximum dead load reaction with the deck removed (per bearing) is as follows:

> Pier 1 Pier 2 14.6 laps 4.2 lops 15.9 kips 15.9 kips

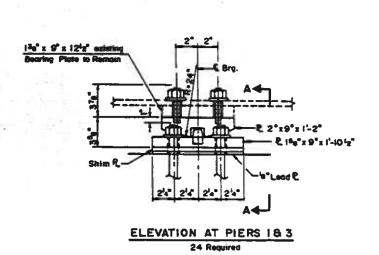
The minimum jack capacity shall be 7 tons at abutments and Pier 2, and 24 tons at Piers 1,3,8.4.

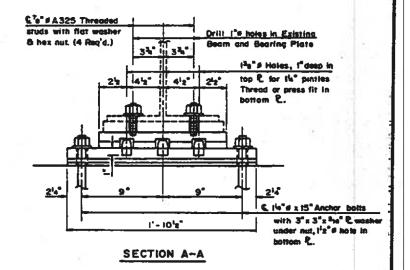
Prior to jacking, one end of each disphragm in the bay along the stage construction line shall be disconnected. The Contractor shall furnish and install new A325 botts of the appropriate size to reconnect the disphragms alter the new busings are installed. Furnishing and installing of the new botts shall be incidental to JACK AND REMOVE EXISTING BEARINGS.

The jacking scheme shown is one possible method. The contractor may submit an alternate jacking design for neview, Regardless of the jacking scheme used, the contractor shall be responsible for the complete design and safety of the jacking



FIXED BEARING (REAMS | AND 14)





COUTT NO MICTOR

AL270 60-00-1 MADISON 228 57

FIXED BEARING (BEAMS 2 THRU IS)

FOR INFORMATION ONLY

See sheet No.29 for Anchor Bott Installation

Cost of Fixed Searings is included in Structural Steel.

Jack and Remove Existing Bearings Each

PIERS 183 BEARING DETAILS F.A.I. ROUTE 270 OVER C.B.N.W. R.R. B. N.S. R.R. F.A.I.RTE. 270, SEC. 60-4VB-Y-I STA, 646+74.00 MADISON COUNTY STR. NO. 060-0051 (E.B.) & STR. NO.060-0052(W.B.)

MTA INCORPORATED DESIGNED: G.B.M. CHECKED: B.G.H. DRAWN: J.P.H. DATE: July, 1994

LOCATION NO. 1

USER NAME = millerraj	DESIGNED -	REVISED -		EXISTING STRUCTURE DETAILS SN 060-0051					F.A.I. BTE	SECTION	COUNTY	TOTAL	SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS						270	60-4VB-BP-1	MADISON	12	12	
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE DETAILS SN 060-0052								CONTRAC	T NO. 7	6N45
PLOT DATE = 12/19/2019	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.						ILLINOIS F	D. AID PROJECT	PROJECT		