

STRUCTURE PROPOSED WORK TABLE

Bridge Name	SFN	Feature Intersected	Deck Sealing	Deck Patching	Parapet Patching & Sealing	Substructure Patching & Sealing	Heat Straightening & Spot Painting	New Expansion Joints	Pile Encasement	Concrete Spall Removal	Clearing & Grubbing	New Structure Identification Signs
ATB-11-0046	0401064	OVER ATB-11-0.46	X	X							X	X
ATB-11-0150	0401072	OVER ATB-11-1.50	X	X							X	X
ATB-11-0250	0406406	OVER ATB-11-2.49	X	X							X	X
ATB-11-0399	0401099	OVER ATB-11-3.99	X	X							X	X
ATB-11-0629	0401102	OVER ATB-11-6.29	X	X			X				X	X
ATB-11-0740	0400297	OVER ATB-11-7.39	X	X							X	X
ATB-45-1913	0402560	COFFEE CREEK	X								X	
MAH-80-0026	5002141	I-76/80	X								X	X
MAH-680-0301	5008166	OVER MAH-680-3.02	X								X	X
STA-30-1303L	7607679	OVER STA-297-0071 RAF					X			X		X
STA-30-1445	7607806	US 30 & US 62	X	X							X	X
STA-62-0397	7601891	BR MIDDLE FORK	X	X				X			X	X
STA-62-0468	7601999	BR SUGAR CREEK	X	X					X		X	X
STA-62-1909R	7602243	RAMP G BR OVER CLEVELAND TO IR77N	X	X							X	X
STA-21-2130	7600666	SR 21	X	X							X	X
SUM-76-1650	7706723	I-76	X	X							X	X
TRU-80-0340	7803605	SR 711 SB OVER I-80 EB	X								X	X
TRU-80-0347	7803699	SR 711 SB OVER I-80 WB	X								X	X
TRU-11-0796	7801807	SR 11	X		X	X					X	X
TRU-11-0926L	7801831	OVER RAMP (NB11 TO 82WB)	X	X							X	X
TRU-11-0957L	7801866	OVER TRU-82-19.74	X	X		X					X	X
TRU-11-0959R	7801890	OVER TRU-82-19.77	X	X		X					X	X

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, INCLUDING THE 2020 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-15 DATED (REVISED) 7/15/2015

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

843 DATED 10/18/2019
 849 DATED 1/18/2013

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS, SECTIONS 102.05, 105.02, AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

STRUCTURE PROPOSED WORK DESCRIPTIONS

DECK SEALING

-SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT.

DECK PATCHING:

-REPAIR UNSOUND OR PREVIOUSLY PATCHED AREAS OF THE EXISTING DECK AND APPROACH SLABS.

SUBSTRUCTURE AND PARAPET PATCHING & SEALING:

-INSPECT AND SOUND THE CONCRETE SUBSTRUCTURE AND AND PARAPETS. PATCH THE CONCRETE AND SEAL WITH EPOXY-URETHANE SEALER. COLOR OF SEALER SHALL MATCH EXISTING SEALER.

HEAT STRAITENING & SPOT PAINTING:

-HEAT STRAIGHTEN STEEL BEAMS DUE TO COLLISION DAMAGE. SEE SUBSET SHEET 8/11 - 10/11 FOR ESTIMATED QUANTITIES, NOTES AND DETAILS.
 -SPOT PAINT DAMAGED STRUCTURAL STEEL COATINGS.

NEW EXPANSION JOINTS:

-REMOVE & REPLACE POLYMER MODIFIED ASPHALT BINDER EXPANSION JOINTS.

PILE ENCASEMENT:

-ENCASE ALL 14" EXISTING REINFORCED CAST-IN-PLACE PIER PILES WITH NEW CONCRETE FOR CORROSION PROTECTION.

CONCRETE SPALL REMOVAL:

-REMOVE BOTTOM OF DECK FLOOR CONCRETE SPALL.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE: HIGH-PRESSURE WATER BLASTING WITH, OR WITHOUT, ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT OR VACUUM ABRASIVE BLASTING.

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

STRUCTURE PAINTING/CONCRETE SEALING OPERATIONS

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT OR OTHER MATERIALS USED TO REPAIR, CLEAN, PAINT, SEAL OR TREAT ANY STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

ITEM SPECIAL - SEALING, SEALING OF CONCRETE SURFACES

SEAL ALL SURFACES OF CONCRETE USING BRIDGE COTE XL-70 W/SILANE, LISTED ON THE APPROVED NOISE BARRIER SUPPLIER LIST UNDER APPROVED SEALERS FOR NOISE BARRIERS LOCATED AT:
<https://www.transportation.ohio.gov/static/Programs/Noise/ApprovedNoiseSuppliersList.pdf>

MEET THE REQUIREMENTS OF THE BRIDGE COTE XL-70 W/SILANE TECHNICAL DATA SHEET WITH THE EXCEPTION OF THE SURFACE PREPARATION WILL FOLLOW THE REQUIREMENTS LISTED UNDER CMS 512 FOR EPOXY URETHANE SEALERS.

THE COLOR OF THE SEALER SHALL MATCH THE EXISTING COLOR.

ITEM SPECIAL - STRUCTURES: CONCRETE SPALL REMOVAL

THIS WORK WILL CONSIST OF REMOVING ALL VISIBLY SPALLED AREAS OF THE BOTTOM DECK FLOOR OF STRUCTURE STA-30-1303L WITHOUT SOUNDING. AFTER SPALLED CONCRETE AREAS HAVE BEEN REMOVED, REMOVAL AREAS WILL BE SEALED WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).

CONCRETE SPALL REMOVAL WILL BE PAID FOR AT THE UNIT BID PRICE FOR SPECIAL – STRUCTURE MISC.: CONCRETE SPALL REMOVAL. THIS PRICE WILL INCLUDE THE COST OF LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

SPEC. STRUCTURES: CONCRETE SPALL REMOVAL, 5 SQ YD 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), 5 SQ YD

ITEM SPECIAL - PILE ENCASEMENT

ENCASE ALL EXISTING 14" CAST IN PLACE PIER PILES IN CONCRETE CONFORMING TO C&MS 511 (F'C = 4.0 KSI). PROVIDE A CONCRETE SLUMP BETWEEN 6 TO 8 INCHES WITH THE USE OF A SUPERPLASTICIZER. PLACE THE CONCRETE WITHIN A FORM THAT CONSISTS OF POLYETHYLENE PIPE (707.33), OR PVC PIPE (707.42). THE ENCASEMENT SHALL EXTEND FROM 3 FEET BELOW THE FINISHED GROUND SURFACE UP TO THE CONCRETE PIER CAP. POSITION THE PIPE SO THAT AT LEAST 3 INCHES OF CONCRETE COVER IS PROVIDED AROUND THE EXTERIOR OF THE PILE.

THE DEPARTMENT WILL MEASURE PILE ENCASEMENT BY THE NUMBER OF FEET. THE DEPARTMENT WILL DETERMINE THE SUM AS THE LENGTH MEASURED ALONG THE AXIS OF EACH PILE FROM THE BOTTOM OF THE ENCASEMENT TO THE BOTTOM OF THE PIER CAP. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM - SPECIAL, PILE ENCASEMENT.

DESIGN AGENCY



DESIGNER

CLG

REVIEWER

MJA 02-23-22

PROJECT ID

105170

SUBSET TOTAL

1 11

SHEET TOTAL

P.13 23

ESTIMATED QUANTITIES

BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SUBSET SHEET
MAH-680-0301 5008166 01/IMS/BR	STA-30-1303L 7607679 02/NHS/BR	STA-30-1445 7607806 02/NHS/BR	STA-62-0397 7601891 03/STR/BR	STA-62-0468 7601999 03/STR/BR	STA-62-1909R 7602243 02/NHS/BR	STA-21-2130 7600666 02/NHS/BR	SUM-76-1650 7706723 01/IMS/BR					
LS	LS	LS	LS	LS	LS	LS	LS	201	11001		CLEARING AND GRUBBING, AS PER PLAN	1 / 11
				LS				503	11100		COFFERDAMS AND EXCAVATION BRACING	
				182				SPECIAL	50771200	FT	PILE ENCASEMENT	
	5							SPECIAL	51275500	SY	SEALING, SEALING OF CONCRETE	1 / 11
2929		1347	328	496	738	808	1697	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	5 / 11 & 6 / 11
		14	3	5	11	12	26	519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	5 / 11 & 6 / 11
	5			5				SPECIAL	53000800	SY	STRUCTURES: CONCRETE SPALL REMOVAL	1 / 11
			20					846	00110	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	6 / 11

STRUCTURE ESTIMATED QUANTITIES
 MAHONING, STARK, AND SUMMIT COUNTIES

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SUBSET TOTAL

3 11

SHEET TOTAL

P.15 23

ESTIMATED QUANTITIES


BRIDGE NO. / STRUCTURE FILE NO.						ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SUBSET SHEET
TRU-80-0340 7803605 01/IMS/BR	TRU-80-0347 7803699 01/IMS/BR	TRU-11-0796 7801807 01/IMS/BR	TRU-11-0926L 7801831 02/NHS/BR	TRU-11-0957L 7801866 02/NHS/BR	TRU-11-0959R 7602243 02/NHS/BR					
LS	LS	LS	LS	LS	LS	201	11001		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS	1 / 11
		17		17	17	SPECIAL	51275500	SY	SEALING, SEALING OF CONCRETE	1 / 11
1635	971	1199	1278	2511	2421	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	5 / 11 & 6 / 11
		150		150	150	519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1 / 11
	10		13	25	24	519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	5 / 11 & 6 / 11

STRUCTURE ESTIMATED QUANTITIES
 TRUMBULL COUNTY

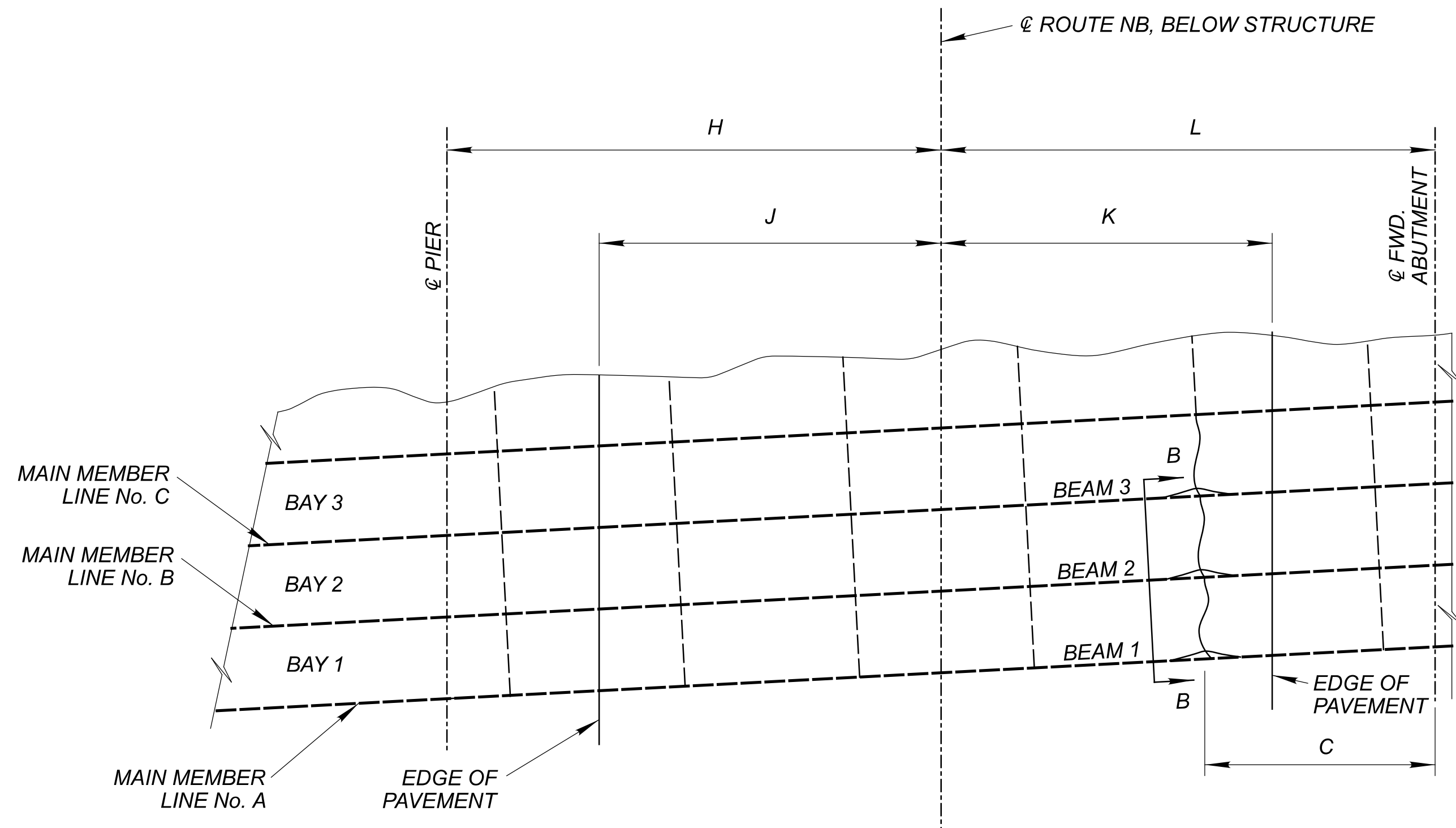


DESIGN AGENCY	
DESIGNER	CLG
REVIEWER	MJA 02-23-22
PROJECT ID	105170
SUBSET	TOTAL
4	11
SHEET	TOTAL
P.16	23

ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SUBSET SHEET
STA-30-1303L 7607679 02/NHS/BR	ATB-11-0629 401102 02/NHS/BR											
20	542							202	11401	LB	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS)	7 / 11
	80							512	10600	FT	CONCRETE REPAIR BY EPOXY INJECTION	
	542							513	10201	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	7 / 11
	25							513	95000	FT	STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED MAIN OR SECONDARY MEMBER, FILLET WELDING	7 / 11
114	266							514	27700	SF	FIELD PAINTING, MISC.: REPAIR PAINTING	7 / 11
LS	LS							SPECIAL	51647001	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	7 / 11
LS	LS							849	10000	LS	DAMAGE ASSESSMENT	
LS	LS							849	10500	LS	SURFACE PREPARATION	
2	2							849	10600	HOURL	REPAIRING DAMAGED MEMBERS BY GRINDING	
LS	LS							849	10700	LS	STRAIGHTENING DAMAGED MEMBERS	

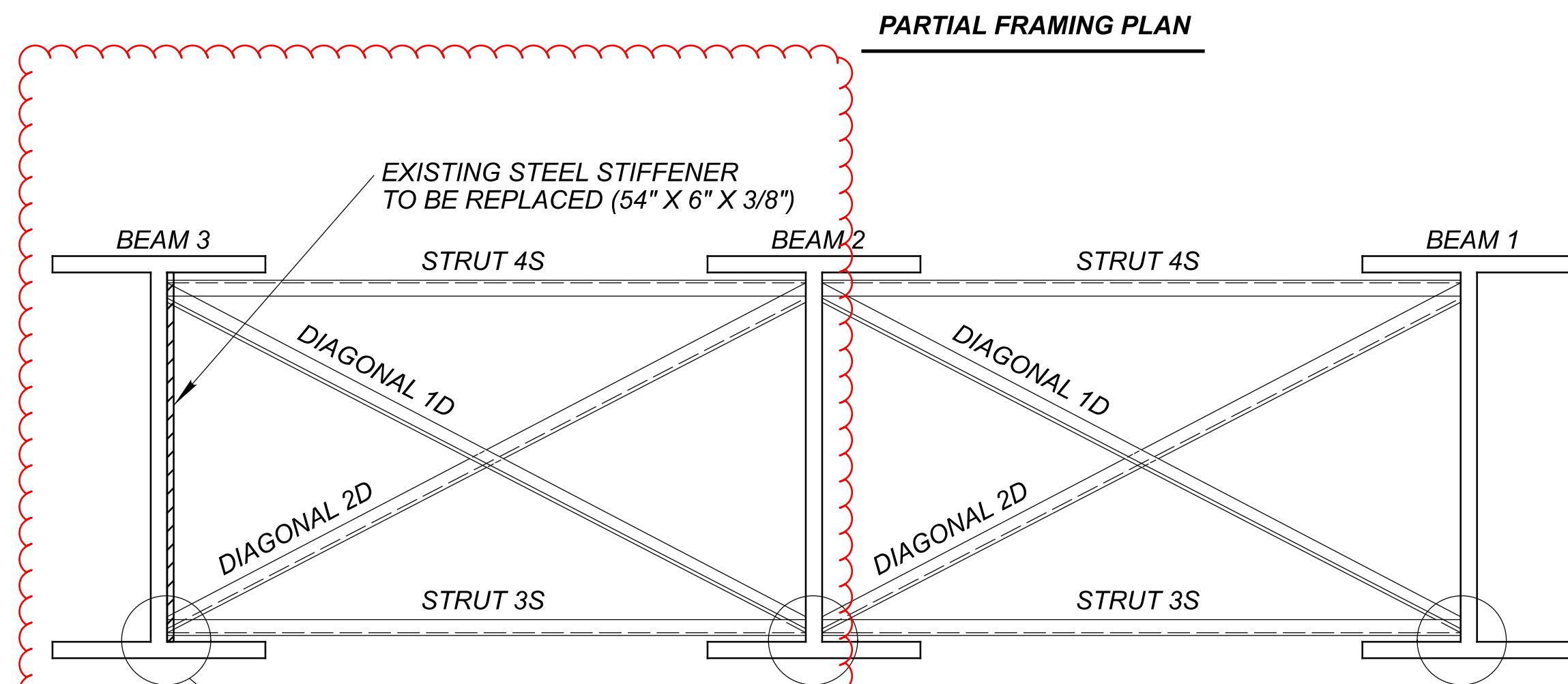
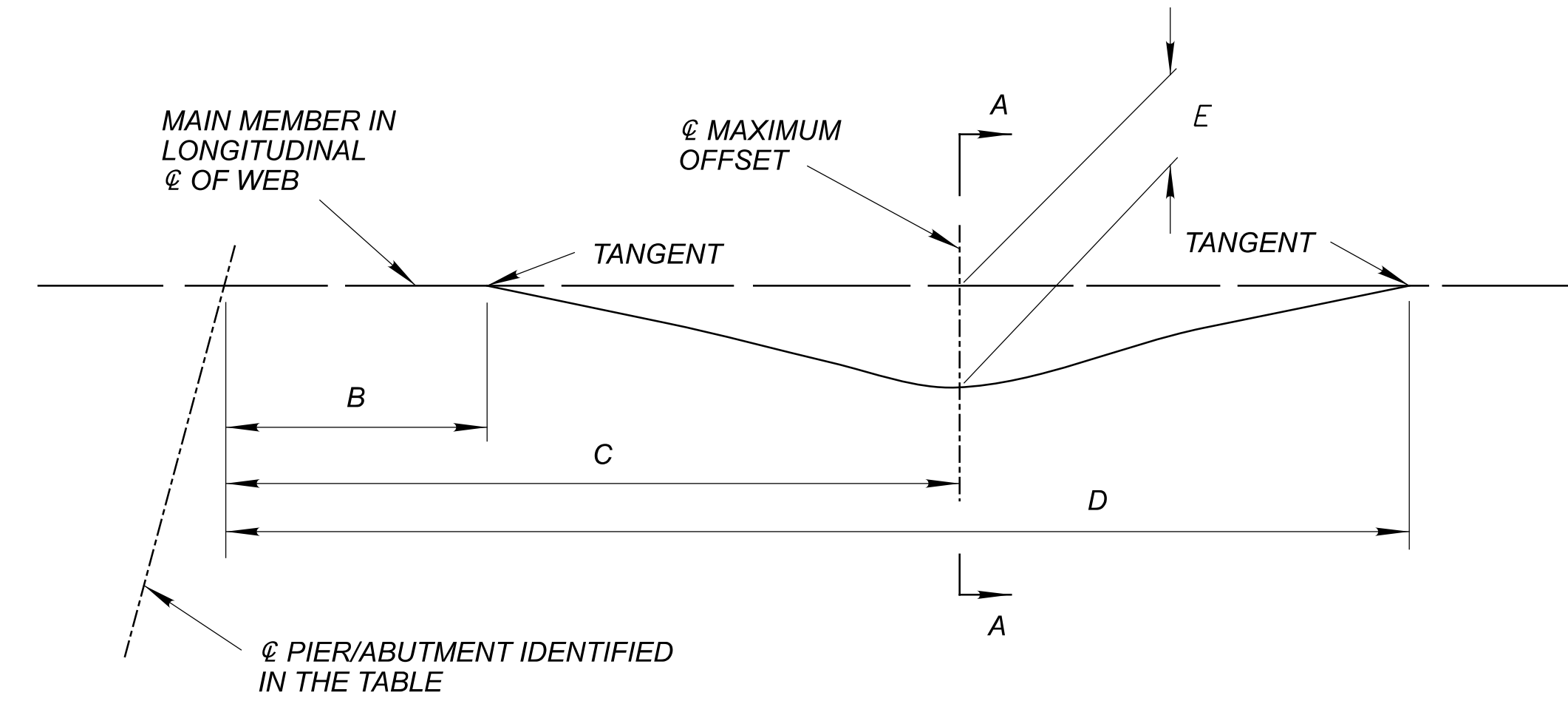
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SUBSET	TOTAL
8	11
SHEET	TOTAL
P.20	23



ORIENTATION NOTE

ABUTMENTS AND PIERS ARE NUMBERED IN THE CARDINAL DIRECTION (FROM SOUTH TO NORTH OR WEST TO EAST), BEAMS ARE NUMBERED FROM LEFT TO RIGHT WHEN FACING IN THE CARDINAL DIRECTION. BAYS ARE NUMBERED TO MATCH THE MAIN MEMBERLINE NUMBER TO THE LEFT OF THE CROSSFRAME BAY WHEN FACING IN THE CARDINAL DIRECTION.



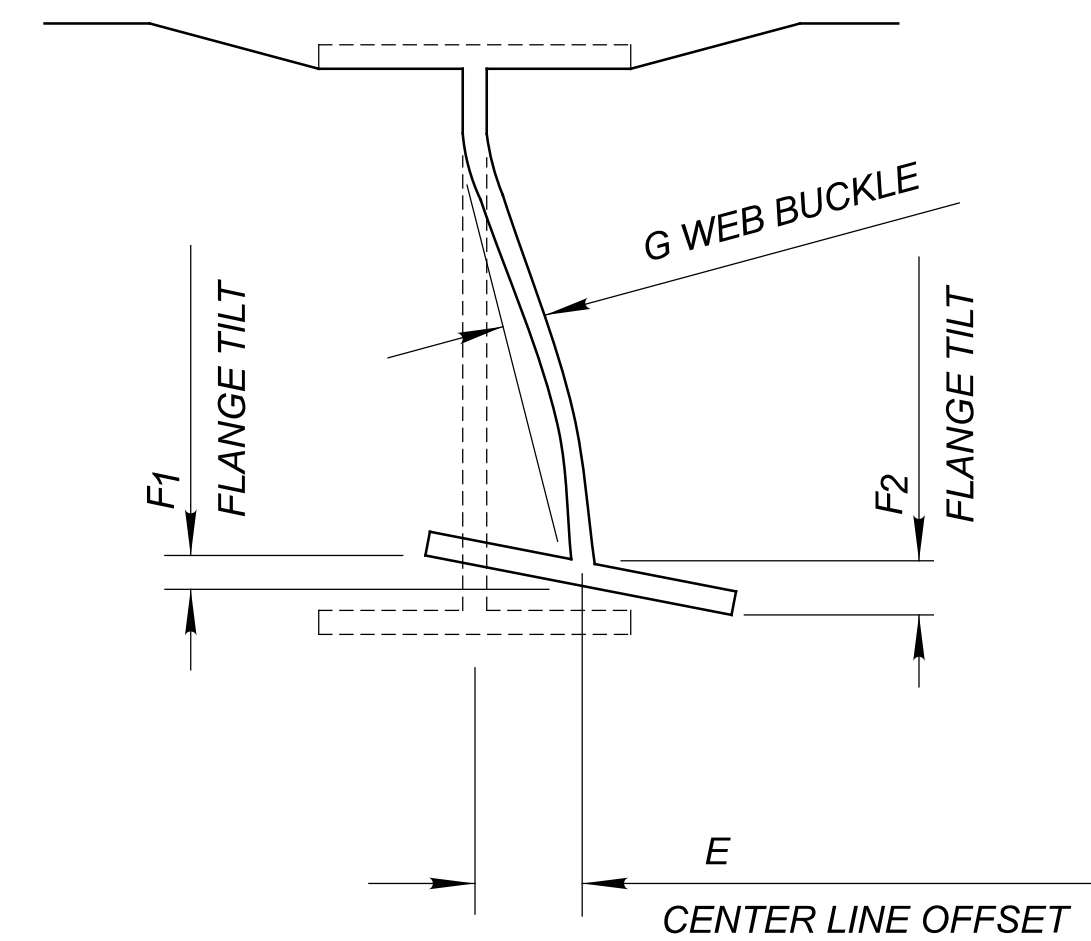
REMOVE ACCORDING TO ITEM 202-PORIONS OF SECONDARY MEMBERS REMOVED, AS PER PLAN (TYP.). REPLACE BY MATCHING EXISTING DETAIL. SEE GSD-1-96 FOR ADDITIONAL CLARIFICATION.

MAIN AND SECONDARY MEMBER DAMAGE IS NOT SHOWN. FOR CLARITY SEE SECTION A-A

SECTION B-B

SECONDARY MEMBER BAY No. 1 and No. 2

N- NUMBER OF CROSSFRAME BRACES COUNTED FROM THE PIER OR ABUTMENT IDENTIFIED IN TABLE



SECTION A-A

NEGATIVE E VALUES ARE BENT LEFT
 NEGATIVE F VALUES ARE BENT DOWN
 NEGATIVE G VALUES ARE BENT LEFT

EXISTING STRUCTURE: ATB-11-0629
 ROUTE ON STRUCTURE: DODGEVILLE RD.
 ROUTE BELOW STRUCTURE: SR-11
 TYPE: CONTINUOUS STEEL GIRDER
 ROADWAY WIDTH: 36'-0" F/F PARAPETS
 SKEW: 5°15' 20" LT. FWD.
 ALIGNMENT: N85°04' 40"E ; STRUCTURE ON TANGENT
 SUPERELEVATION: N/A
 YEAR BUILT: 1979
 NUMBER OF BEAMS: 5
 STEEL TYPE: ASTM A588
 PAINT TYPE: OZEU
 PAINT DATE: 8-1-1979

CROSSFRAME BAY No.	PIER/ABUT.	N	1D	2D	3S	4S
1	FWD. ABUT.	3	9'-7"	9'-7"	8'-7 1/2"	8'-7 1/2"
2	FWD. ABUT.	3	9'-7"	9'-7"	8'-7 1/2"	8'-7 1/2"
3	FWD. ABUT.	3	9'-7"	9'-7"	8'-7 1/2"	8'-7 1/2"

DAMAGE AREA No.	MEMBER LINE No.	PIER OR ABUT.	B	C	D	E	F1	F2	G	H	J	K	L
1	A	FWD. ABUTMENT	34'-8"	6'-3"	42'-11"	1/4"	3/4"	3/4"	1/4"	65'-7"	24'-0"	24'-0"	30'-0"
2	B	FWD. ABUTMENT	36'-3"	8'-9"	45'-0"	3/8"	1/4"	1/4"	3/8"	65'-7"	24'-0"	24'-0"	30'-0"
3	C	FWD. ABUTMENT	40'-0"	4'-0"	44'-0"	1"	2-1/2"	2-1/2"	1"	65'-7"	24'-0"	24'-0"	30'-0"

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10 11

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