



# GENERAL NOTES

## EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATION AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.02. THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGES ARE AVAILABLE UPON REQUEST AT THE DISTRICT 3 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, ASHLAND, OHIO.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID EXAMINATION OF THE EXISTING STRUCTURES BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED ON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

## DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002 AND THE ODOT BRIDGE DESIGN MANUAL.

## DESIGN DATA:

STRUCTURAL STEEL - ASTM A-709 GRADE 36 YIELD STRENGTH = 36 KSI  
HIGH STRENGTH BOLTS - ASTM A325 DESIGN SLIP RESISTANCE = 21 KSI

## UNDERGROUND UTILITIES:

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS (UNDER STRUCTURE RIC-30-1384) TOGETHER WITH THEIR RESPECTIVE OWNERS:

### TELEPHONE:

SPRINT  
P.O. BOX 3555  
MANSFIELD, OHIO 44907  
419-755-7956

THE CONTRACTOR SHALL NOTE THE LOCATION OF THE CONDUITS AT THE STRUCTURE PRIOR TO STARTING ANY WORK ON THE ON THE STRUCTURE. CARE SHALL BE USED SO THAT THE CONDUITS ARE NOT DAMAGED.

## PENCIL ABRASIVE BLASTING AND NON-DESTRUCTIVE:

THE DESIGNATED NON-DESTRUCTIVE TESTING (NDT) AREAS SHALL BE CLEANED OF ALL PAINT, RUST AND FOREIGN MATERIALS BY ABRASIVE BLASTING TO A SURFACE QUALITY EQUAL TO SURFACE PREPARATION SSPC-SPIO. SINCE THE INTENT OF THE PENCIL ABRASIVE BLASTING IS TO ENHANCE THE VISUAL AND NDT DETECTION TECHNIQUES PERFORMED UPON THE STRUCTURAL STEEL, A GENTLE BLAST SHALL BE USED SUCH THAT THE SURFACE IS NOT PEENED OR OTHERWISE COLD WORKED. CARE SHALL BE TAKEN SO AS TO NOT DAMAGE THE PAINT IN THE SURROUNDING AREA. THE NON-DESTRUCTIVE TESTING SHALL CONSIST OF MAGNETIC PARTICLE EXAMINATION AND/OR DYE PENETRANT.

SILICA SAND SHALL NOT BE USED. BLASTERS USED FOR SURFACE PREPARATION FOR STRUCTURAL STEEL COATING CANNOT BE USED FOR PENCIL BLASTING. AFTER THE ABRASIVE BLASTING IS COMPLETE, THE CLEANED AREA SHALL BE AIR BLOWN CLEAN. THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER PRIOR TO THE START OF THE WORK THAT HE CAN SATISFACTORILY PERFORM PENCIL ABRASIVE BLASTING ACCORDING TO THE SPECIFICATIONS.

THESE ITEMS ARE INCIDENTAL TO ITEM SPECIAL- HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL.

## ITEM 513-STRUCTURAL STEEL MISC.: HIGH STRENGTH BOLT WITH NUT AND WASHERS:

ALL BOLTS SHALL BE 1" DIAMETER GALVANIZED TYPE I. ALL BOLTS, NUTS AND WASHERS SHALL BE HIGH STRENGTH, MEETING CMS 711.09 (ASTM A 325)

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER EACH FOR ITEM 513- STRUCTURAL STEEL MISC.: HIGH STRENGTH BOLT WITH NUT AND WASHERS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

# GENERAL NOTES

ITEM 514- SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL:

ITEM 514- FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT:

ITEM 514- FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT:

ITEM 514- FIELD PAINTING STRUCTURAL STEEL, FINISH COAT:

THESE ITEMS SHALL BE USED ON ALL STRUCTURES. THESE ITEMS SHALL BE USED UPON THE COMPLETION OF ALL OTHER WORK. THE CONTRACTOR SHALL CLEAN, PRIME, INTERMEDIATE AND FINISH THE AREAS AFFECTED BY THE WORK. THE COLOR OF THE FINISH PAINT SHALL MATCH THE COLOR OF THE EXISTING PAINT ON THE BRIDGE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER LUMP SUM FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM SPECIAL- HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL:

SEE PROPOSAL NOTE "HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL" FOR HEAT STRAIGHTENING REQUIREMENTS.

SCRAPES AND NICKS IN THE BOTTOM FLANGES SHALL BE GROUND SMOOTH AT LOCATIONS INDICATED IN THE PLAN AND AS DIRECTED BY THE ENGINEER. GRINDING PERPENDICULAR TO THE FLANGE WILL NOT BE PERMITTED.

ALL CROSSFRAMES INDICATED TO BE REPLACED IN THE PLANS, PENCIL ABRASIVE BLASTING, NON-DESTRUCTIVE TESTING AND ALL EPOXY INJECTIONS ARE INCLUDED IN THIS ITEM. SEE PROPOSAL NOTE FOR ADDITIONAL REQUIREMENTS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER LUMP SUM FOR ITEM SPECIAL- HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 614 - MAINTAINING TRAFFIC:

TRAFFIC SHALL BE MAINTAINED AS INDICATED IN THE PLANS AND AS OUTLINED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION WITH LATEST REVISIONS AT THE TIME THE CONTRACT IS AWARDED. THE PLANS SHALL CONSTITUTE THE MINIMUM PROVISIONS FOR TRAFFIC CONTROL DEVICES, TO MEET FIELD CONDITIONS. THE CONTRACTOR SHALL ALSO PROVIDE ADDITIONAL TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AREA AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE STATE.

STRUCTURE CRA-30-0711R

THE CONTRACTOR MAY CLOSE ONE LANE UNDER THE STRUCTURE AS PER STANDARD DRAWING MT-97.10.

STRUCTURE LOR 20-1303

THE CONTRACTOR MAY CLOSE ONE LANE UNDER THE STRUCTURE AS PER STANDARD DRAWINGS MT-95.30 AND MT-98.14.

STRUCTURE RIC 30-0517

THE CONTRACTOR MAY CLOSE ONE LANE UNDER THE STRUCTURE AS PER STANDARD DRAWINGS MT-95.30.

STRUCTURE RIC 30-1384

THE CONTRACTOR MAY CLOSE ONE LANE UNDER THE STRUCTURE AS PER STANDARD DRAWINGS MT-95.30, MT-98.13 AND MT-98.14, HOWEVER NO LANE CLOSURES SHALL BE PERMITTED ON MONDAY, TUESDAY, WEDNESDAY OR THURSDAY BETWEEN THE HOURS OF 2:00 PM AND 6:00 PM AND ALL DAY FRIDAY, SATURDAY AND SUNDAY AT THIS LOCATION.

THERE SHALL BE NO LANE CLOSURES UNLESS WORK IS CURRENTLY BEING DONE THAT WARRANTS SUCH A CLOSURE ON ANY OF THE ABOVE STRUCTURES.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER LUMP SUM FOR ITEM 614- MAINTAINING TRAFFIC WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

DESIGN FILE: I:\projects\25736\Struct\gennotes.dgn  
 WORKSTATION: dmollens DATE: 09/08/03

DESIGN AGENCY		DISTRICT THREE	
DATE	8/03	REVIEWED	RDN
DRAWN	DCM	CHECKED	CL
GENERAL NOTES			
CRA-30-7.11			
3		14	

# GENERAL SUMMARY

CALCULATED  
DCM  
CHECKED  
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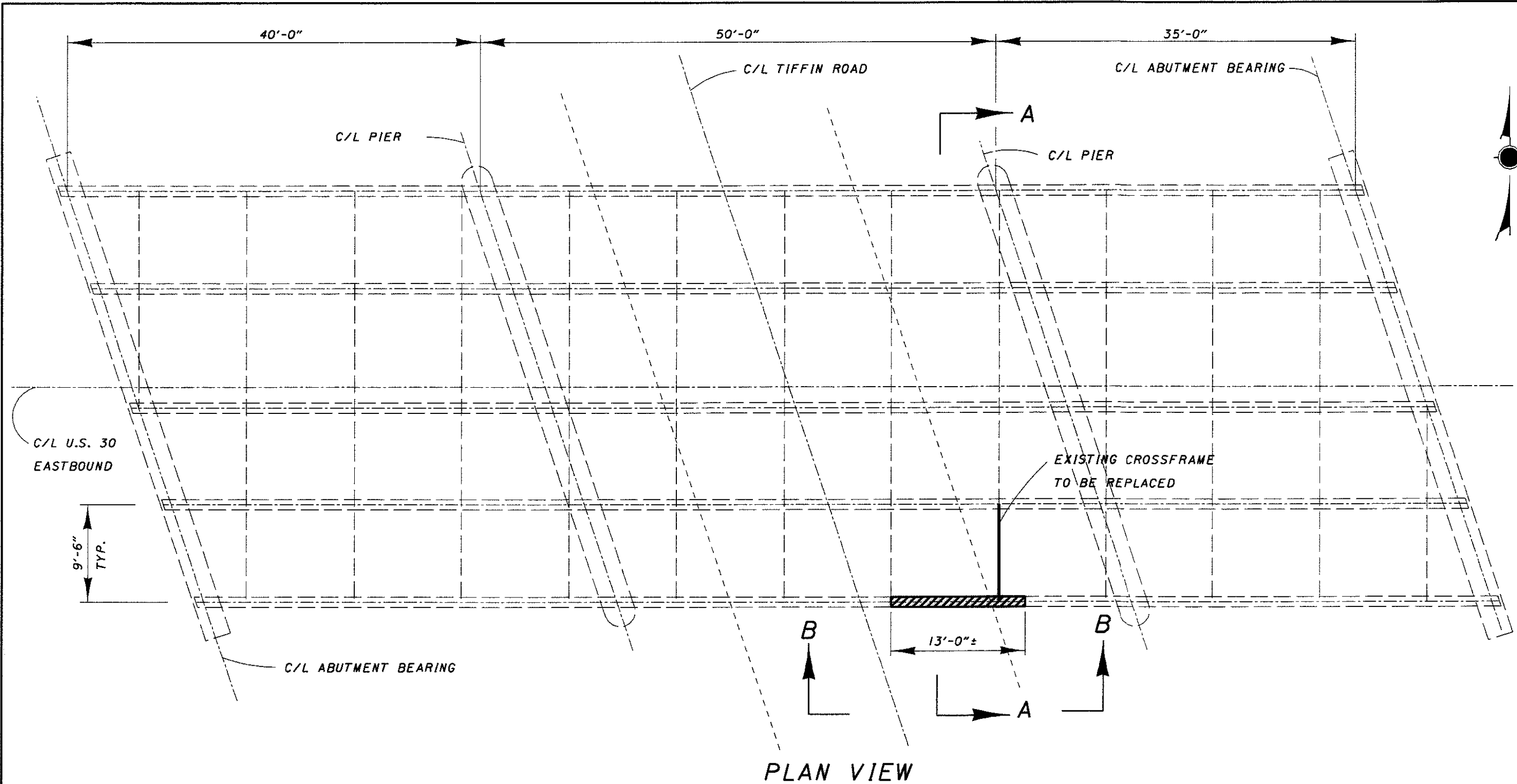
SHEET NUMBER				ITEM	ITEM EXT.	QUANT.	UNIT	DESCRIPTION
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				<b>STRUCTURE CRA-30-0711R S.F.N. 1701290</b>				
				LUMP	SPECIAL 51319000	LUMP		HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
				LUMP	514 00100	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
				LUMP	514 00200	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
				LUMP	514 00300	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
				LUMP	514 00400	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT
				<b>STRUCTURE LOR-20-1303 S.F.N. 4706609</b>				
			58		202 98100	58	EACH	REMOVAL MISC.; REMOVAL OF EXISTING SPLICE PLATE BOLT
				LUMP	SPECIAL 51319000	LUMP		HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
			58		513 95030	58	EACH	STRUCTURAL STEEL MISC.; HIGH STRENGTH BOLT, NUT AND WASHERS
				LUMP	514 00100	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
				LUMP	514 00200	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
				LUMP	514 00300	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
				LUMP	514 00400	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT
				<b>STRUCTURE RIC-30-0517 S.F.N. 7001010</b>				
				LUMP	SPECIAL 51319000	LUMP		HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
				LUMP	514 00100	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
				LUMP	514 00200	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
				LUMP	514 00300	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
				LUMP	514 00400	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT
				<b>STRUCTURE RIC-30-1384 S.F.N. 7001320</b>				
				LUMP	SPECIAL 51319000	LUMP		HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
				LUMP	514 00100	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
				LUMP	514 00200	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
				LUMP	514 00300	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
				LUMP	514 00400	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT
					614 11000	LUMP		MAINTAINING TRAFFIC
					624 10000	LUMP		MOBILIZATION

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WORKSTATION: dmollens DATE: 09/08/03

GENERAL SUMMARY

CRA-30-7.11

DESIGN FILE: i:\projects\25736\Struct\details.dgn  
 WORKSTATION: dmollens DATE: 09/08/03



DATE	8/03
REVIEWED	RDN
STRUCTURAL FILE NUMBER	1701290
DRAWN	DCM
REVISED	
DESIGNED	DCM
CHECKED	CL

PLAN VIEW  
 CRA-30-0711R OVER TIFFIN ROAD

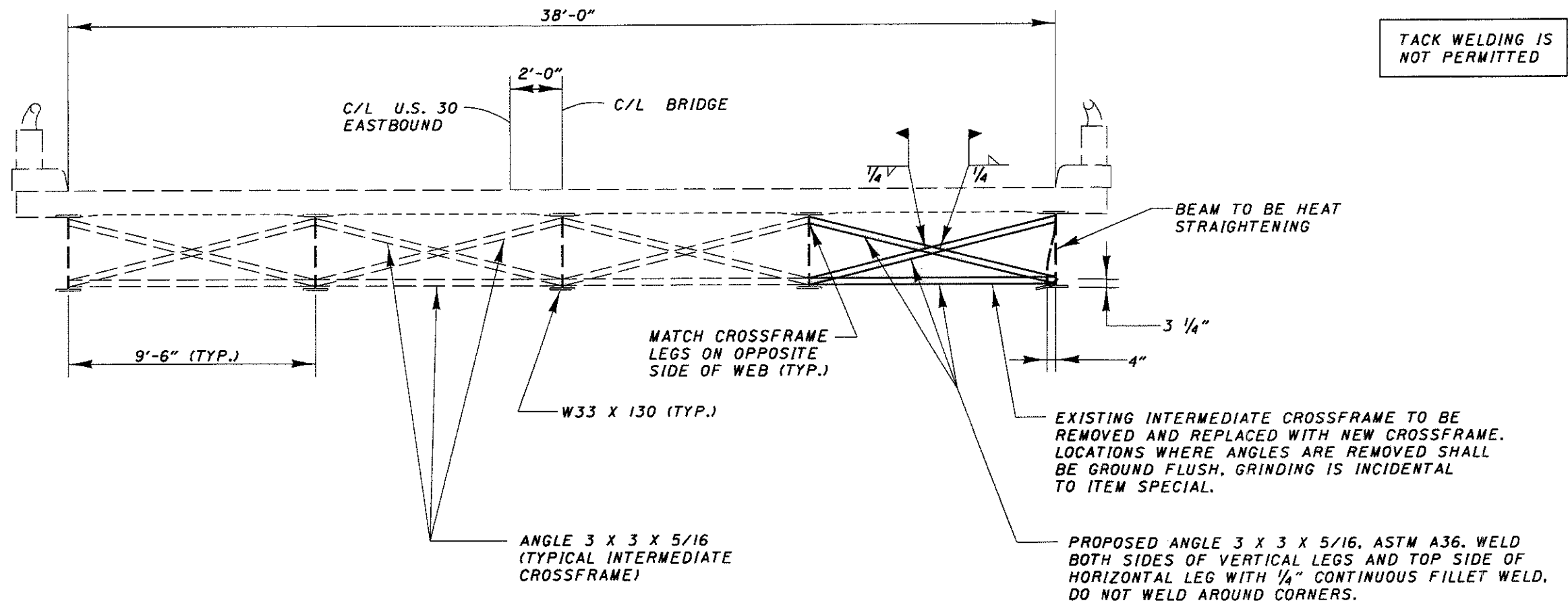
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ITEM	QUANTITY	UNIT	DESCRIPTION
SPECIAL	LUMP		HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
514	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
514	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
514	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
514	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT

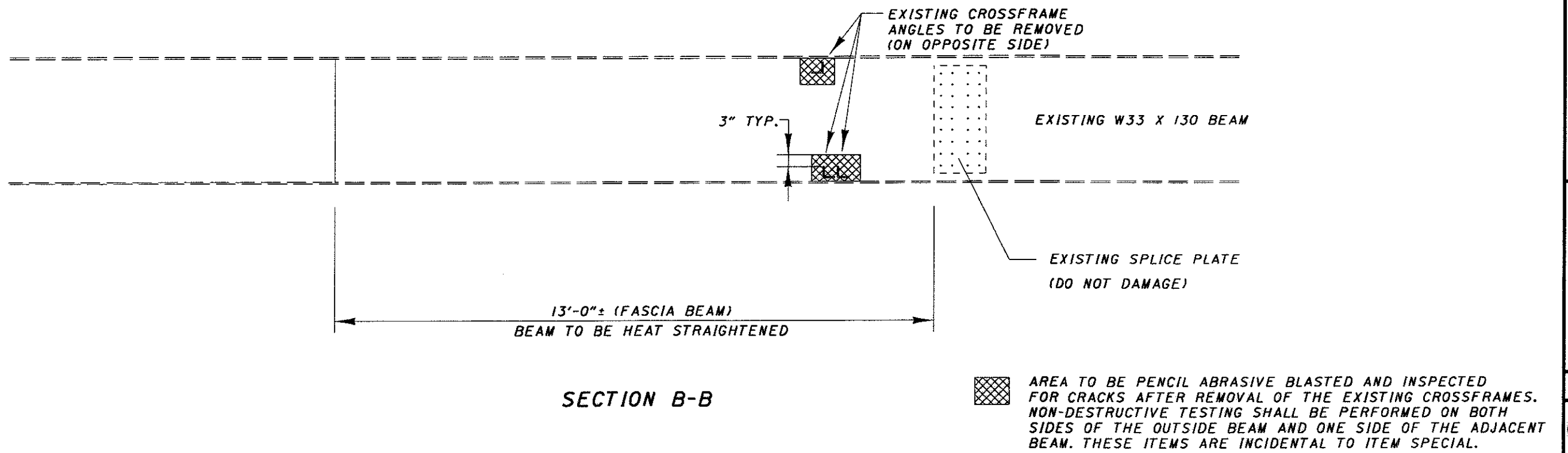
AREA TO BE HEAT STRAIGHTENED

NOTES:  
 THE EXISTING CONCRETE DECK IS NOT SHOWN IN THE PLAN VIEW.  
 SECTION A-A AND B-B ARE SHOWN ON SHEET NO. 6

ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET NO. 4



SECTION A-A



SECTION B-B

DESIGN FILE: i:\projects\25736\Struct\details.dgn  
 WORKSTATION: dmo/lens DATE: 09/08/03

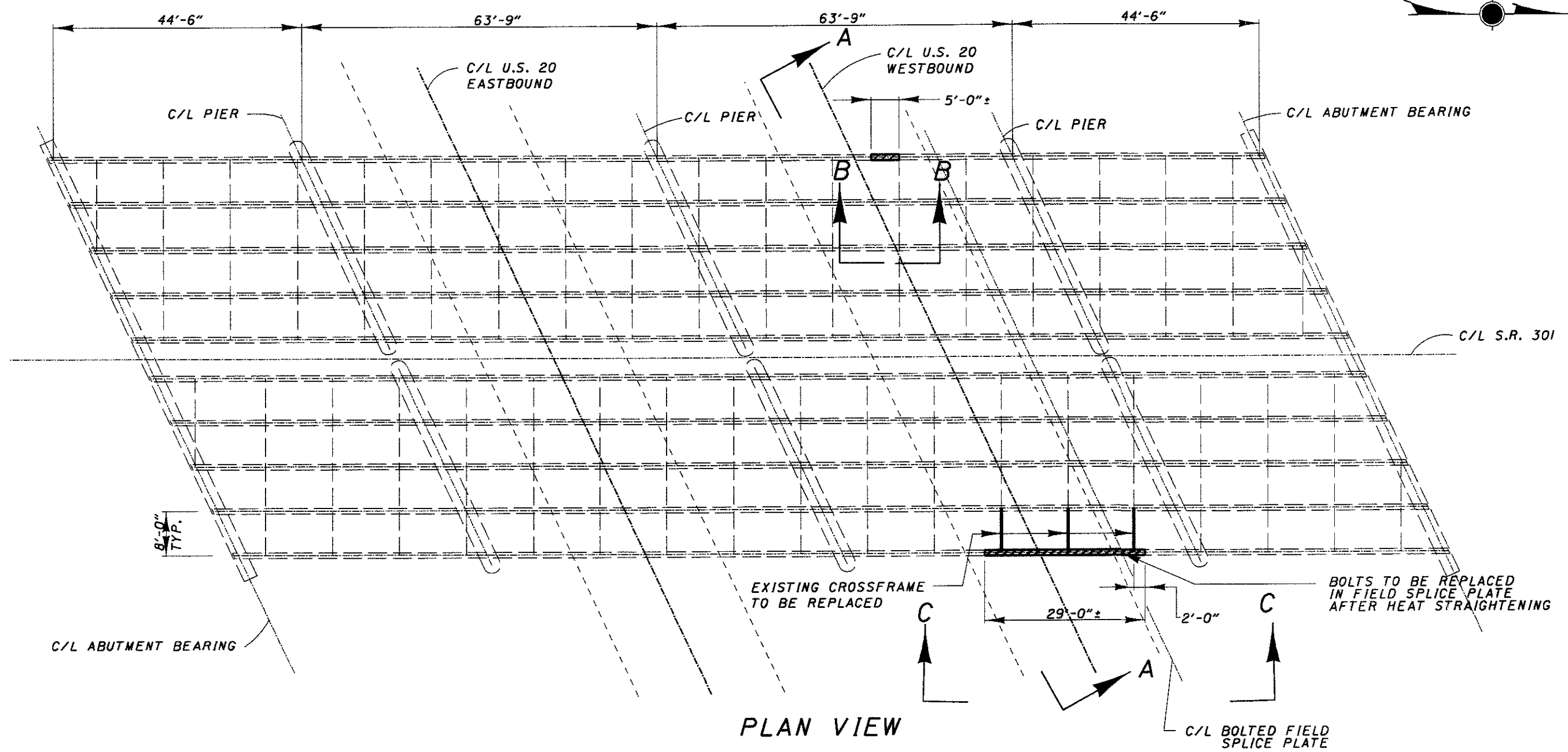
DATE	8/03
REVIEWED	RDN
STRUCTURAL FILE NUMBER	1701290

DRAWN	DCM
REVIEWED	CL
CHECKED	

SECTION VIEWS  
 CRA-30-0711R OVER TIFFIN ROAD

CRA-30-7.11

6
14



PLAN VIEW

ITEM	QUANTITY	UNIT	DESCRIPTION
202	58	EACH	REMOVAL MISC.: REMOVAL OF EXISTING SPLICE PLATE BOLT
SPECIAL	LUMP		HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
513	58	EACH	STRUCTURAL STEEL MISC.: HIGH STRENGTH BOLT, NUT AND WASHERS
514	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
514	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
514	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
514	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT

ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET NO. 4

AREA TO BE HEAT STRAIGHTENED

NOTES:  
 THE EXISTING CONCRETE DECK IS NOT SHOWN IN THE PLAN VIEW.  
 SECTION A-A IS SHOWN ON SHEET NO. 8  
 SECTION B-B AND C-C ARE SHOWN ON SHEET NO. 9.

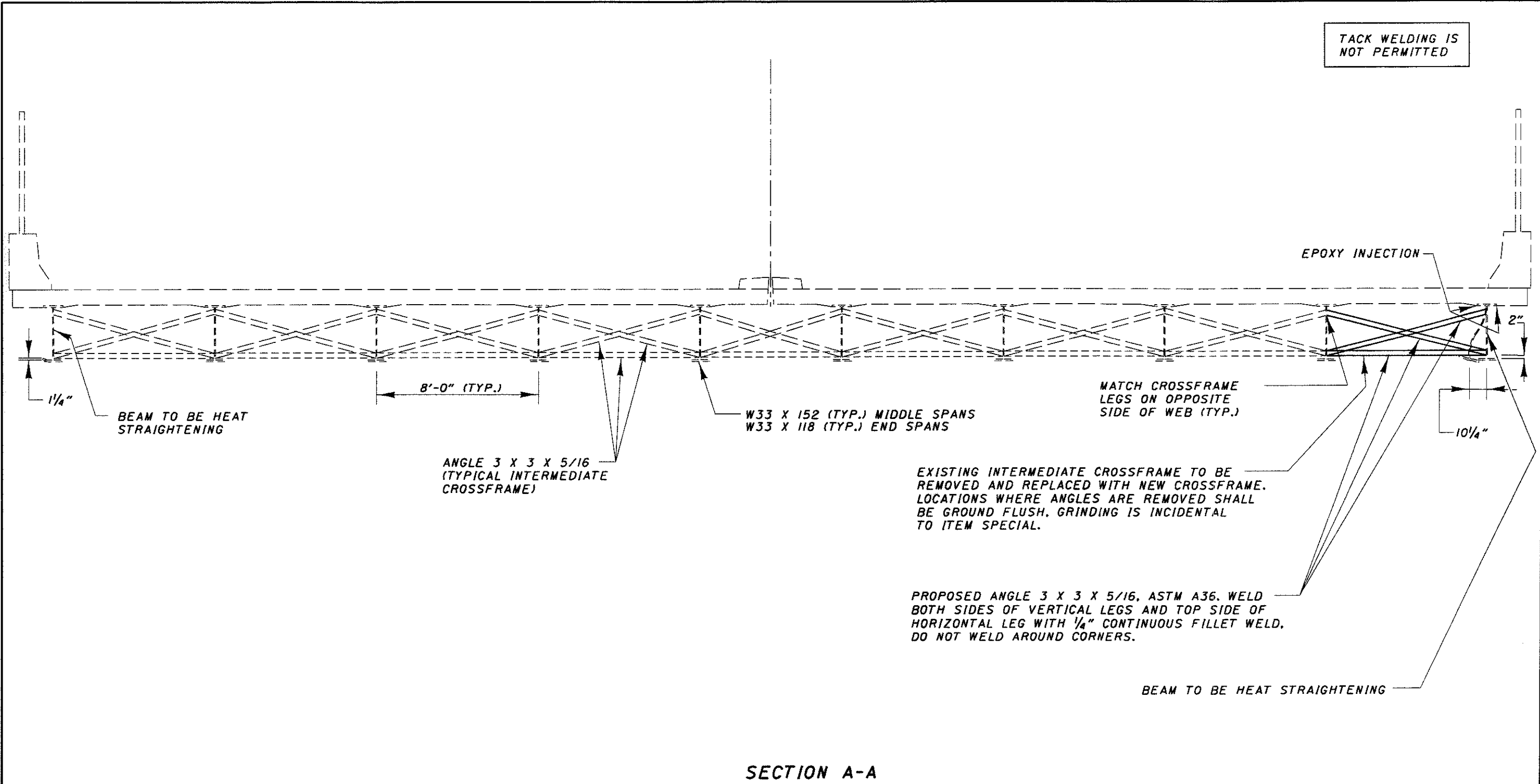
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 WORKSTATION: dmollens DATE: 09/08/03

DATE	8/03
REVIEWED	RDN
STRUCTURAL FILE NUMBER	4706609
DCM	DCM
REVIEWED	CL

PLAN VIEW  
 LOR-20-1303 UNDER S.R. 301

CRA-30-7.11

DESIGN FILE: i:\projects\25736\Struct\details.dgn  
 WORKSTATION: dmo/lens DATE: 09/08/03

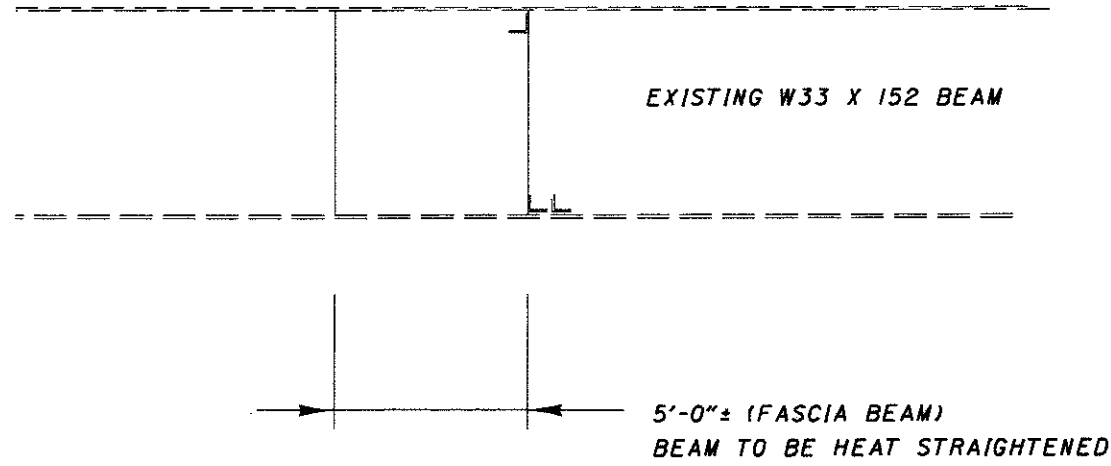


SECTION A-A

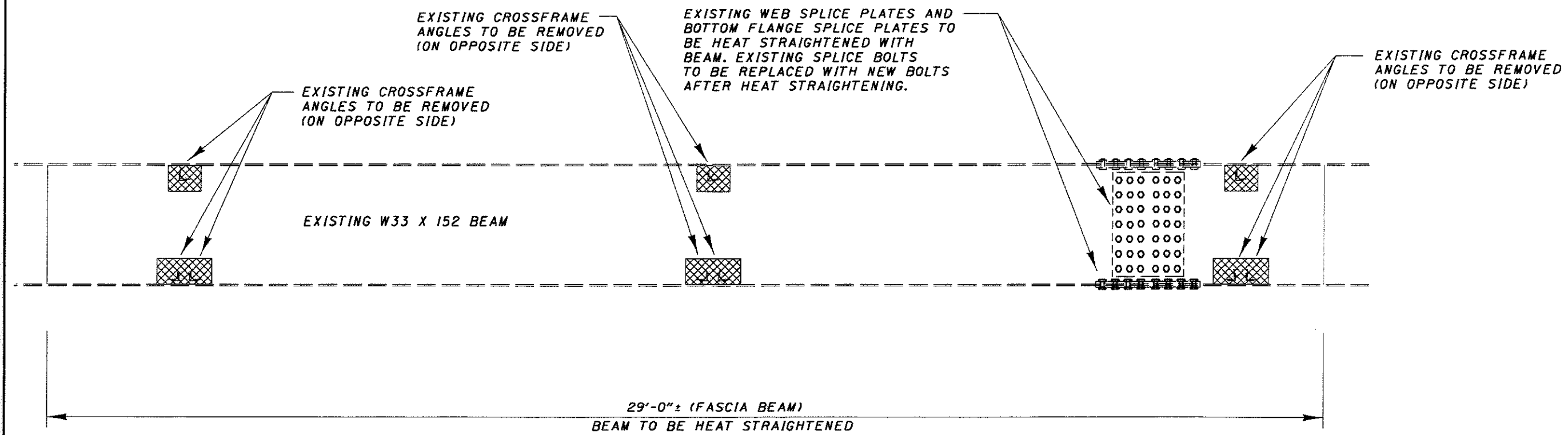
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				DRAWN DCM	STRUCTURAL FILE NUMBER 4706609




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 WORKSTATION: dml/lens DATE: 09/08/03



SECTION B-B



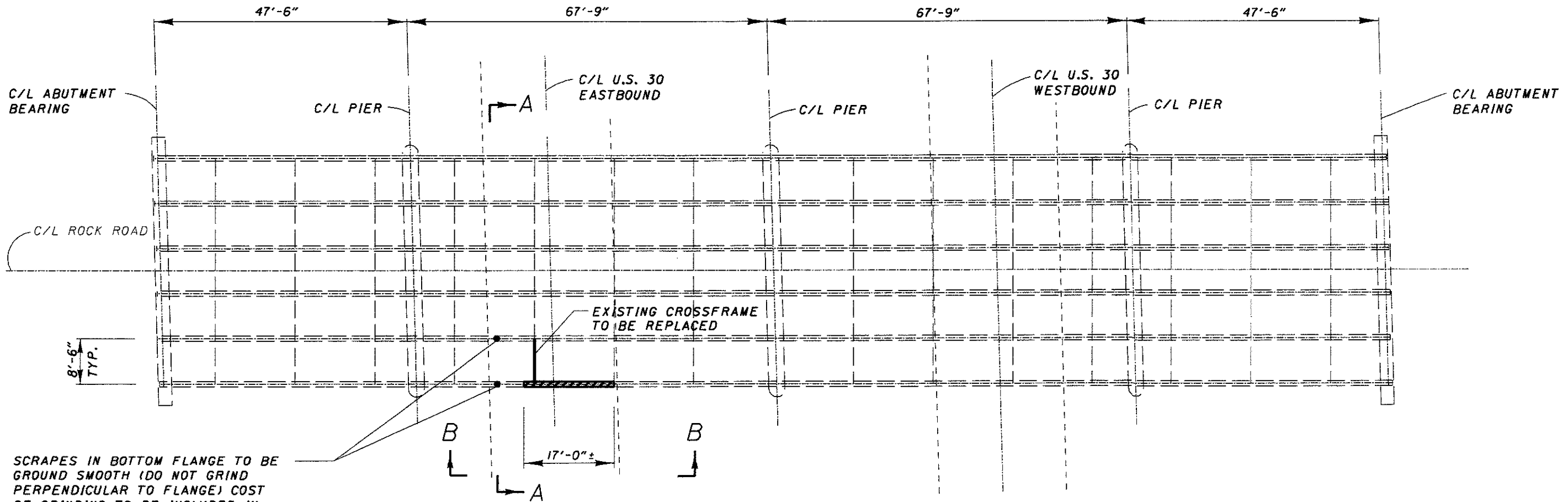
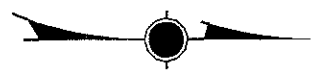
SECTION C-C

 AREA TO BE PENCIL ABRASIVE BLASTED AND INSPECTED FOR CRACKS AFTER REMOVAL OF THE EXISTING CROSSFRAMES. NON-DESTRUCTIVE TESTING SHALL BE PERFORMED ON BOTH SIDES OF THE OUTSIDE BEAM AND ONE SIDE OF THE ADJACENT BEAM. THESE ITEMS ARE INCIDENTAL TO ITEM SPECIAL.

DATE	8/03
REVIEWED	RDN
STRUCTURAL FILE NUMBER	4706609
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SECTION VIEWS  
 LOR-20-1303 UNDER S.R. 301

CRA-30-7.11



SCRAPES IN BOTTOM FLANGE TO BE GROUND SMOOTH (DO NOT GRIND PERPENDICULAR TO FLANGE) COST OF GRINDING TO BE INCLUDED IN ITEM SPECIAL - HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL

PLAN VIEW

ITEM	QUANTITY	UNIT	DESCRIPTION
SPECIAL	LUMP		HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT

AREA TO BE HEAT STRAIGHTENED

NOTES:  
 THE EXISTING CONCRETE DECK IS NOT SHOWN IN THE PLAN VIEW.  
 SECTION A-A AND B-B ARE SHOWN ON SHEET NO. 11

ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET NO. 4

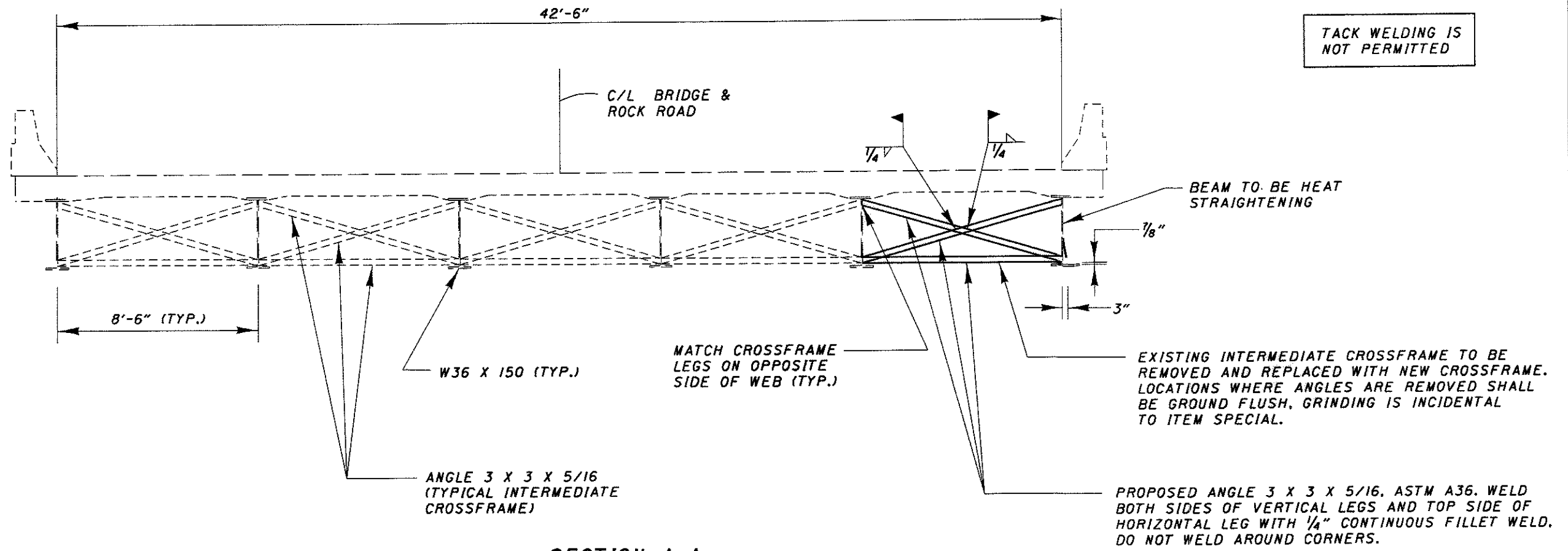
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 WORKSTATION: dmofrens DATE: 09/08/03

DATE	8/03
REVIEWED	RDN
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DESIGNED	DCM
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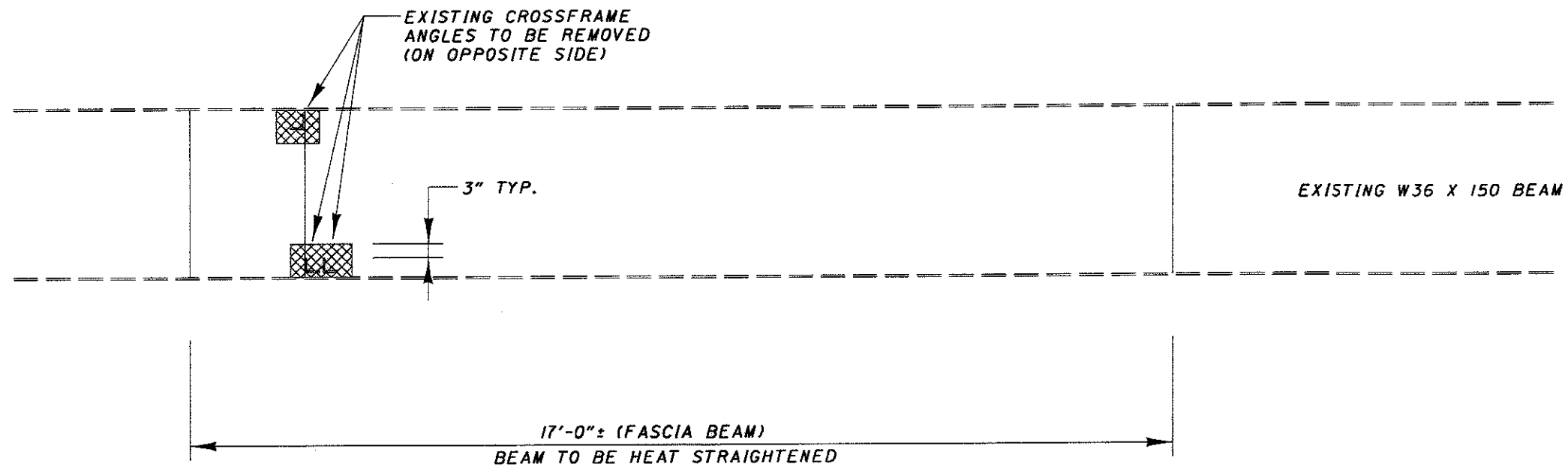
PLAN VIEW  
 RIC-30-0517 UNDER ROCK ROAD

CRA-30-7.11


DESIGN FILE: is\projects\25736\Struct\details\dgn  
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SECTION A-A



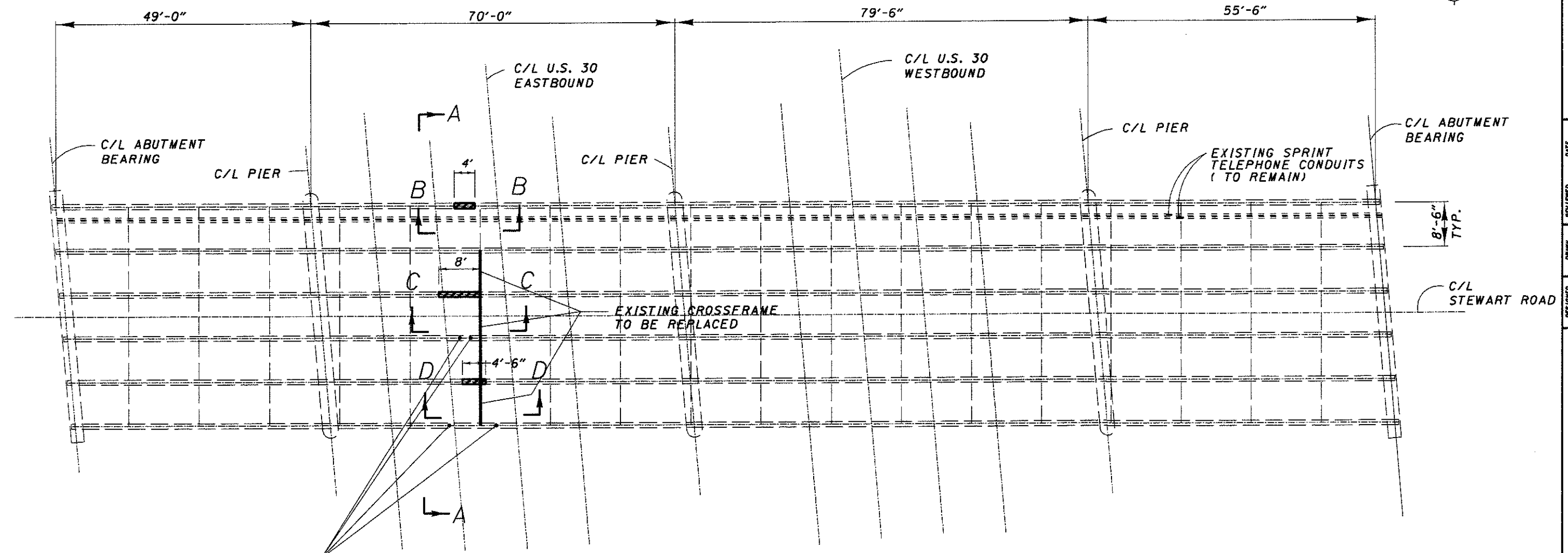
SECTION B-B

 AREA TO BE PENCIL ABRASIVE BLASTED AND INSPECTED FOR CRACKS AFTER REMOVAL OF THE EXISTING CROSSFRAMES. NON-DESTRUCTIVE TESTING SHALL BE PERFORMED ON BOTH SIDES OF THE OUTSIDE BEAM AND ONE SIDE OF THE ADJACENT BEAM. THESE ITEMS ARE INCIDENTAL TO ITEM SPECIAL.

DATE	8/03
REVIEWED	RDN
STRUCTURAL FILE NUMBER	7001010
DRAWN	DCM
DESIGNED	DCM
CHECKED	CL

SECTION VIEWS  
 RIC-30-0517 UNDER ROCK ROAD

CRA-30-7.11



SCRAPES IN BOTTOM FLANGE TO BE GROUND SMOOTH (DO NOT GRIND PERPENDICULAR TO FLANGE) COST OF GRINDING TO BE INCLUDED IN ITEM SPECIAL - HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL

PLAN VIEW

ITEM	QUANTITY	UNIT	DESCRIPTION
SPECIAL	LUMP		HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
514	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
514	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
514	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
514	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT

AREA TO BE HEAT STRAIGHTENED

NOTES:  
 THE EXISTING CONCRETE DECK IS NOT SHOWN IN THE PLAN VIEW.  
 SECTION A-A AND B-B ARE SHOWN ON SHEET NO. 13  
 SECTION C-C AND D-D ARE SHOWN ON SHEET NO. 14

ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET NO. 4

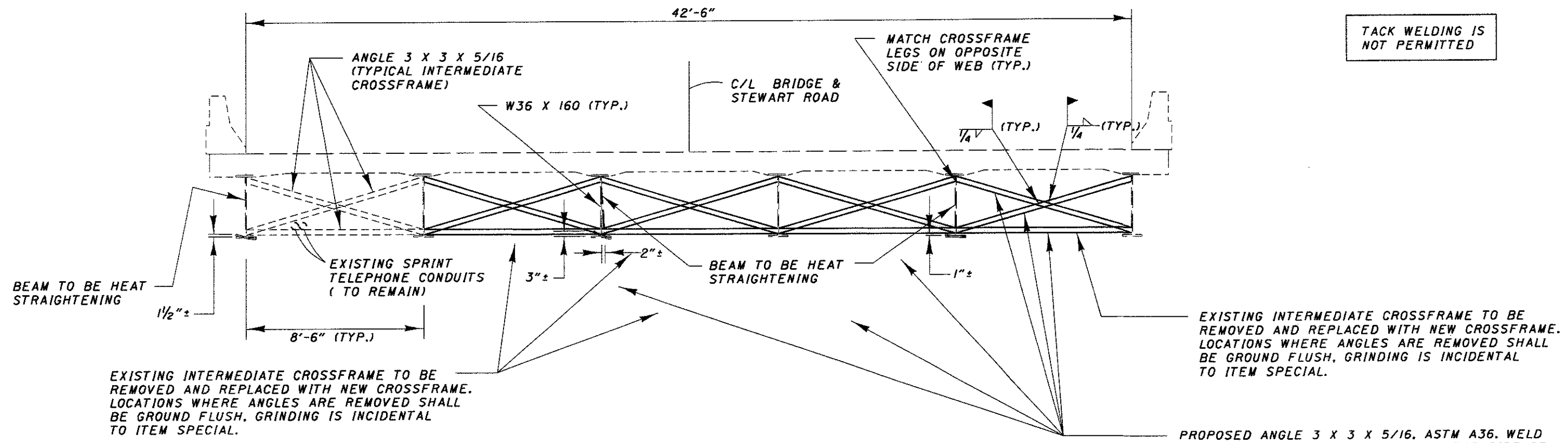
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DATE	8/03
REVIEWED	RDN
STRUCTURAL FILE NUMBER	7001320
DRAWN	DCM
REVISY	
DESIGNED	CL

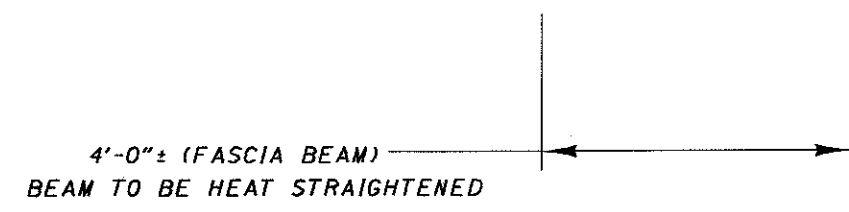
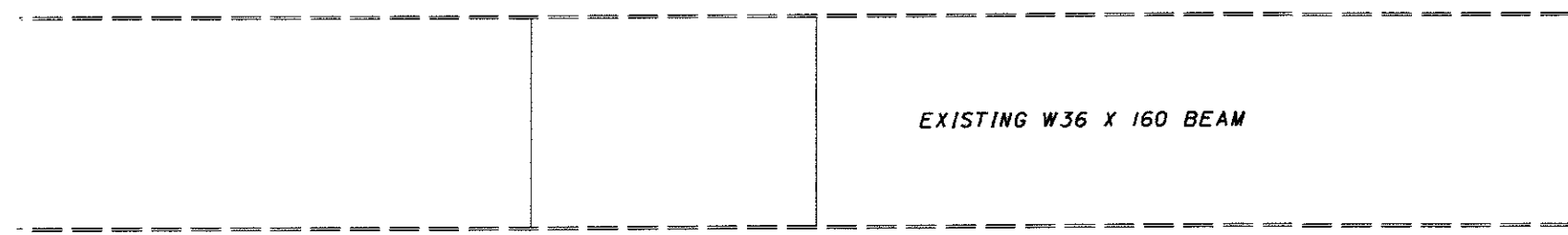
PLAN VIEW  
 RIC-30-1384 UNDER STEWART ROAD

CRA-30-7.11

DESIGN FILE: i:\projects\25736\Struct\details\dgn  
 WORKSTATION: dmollens DATE: 09/12/03



SECTION A-A

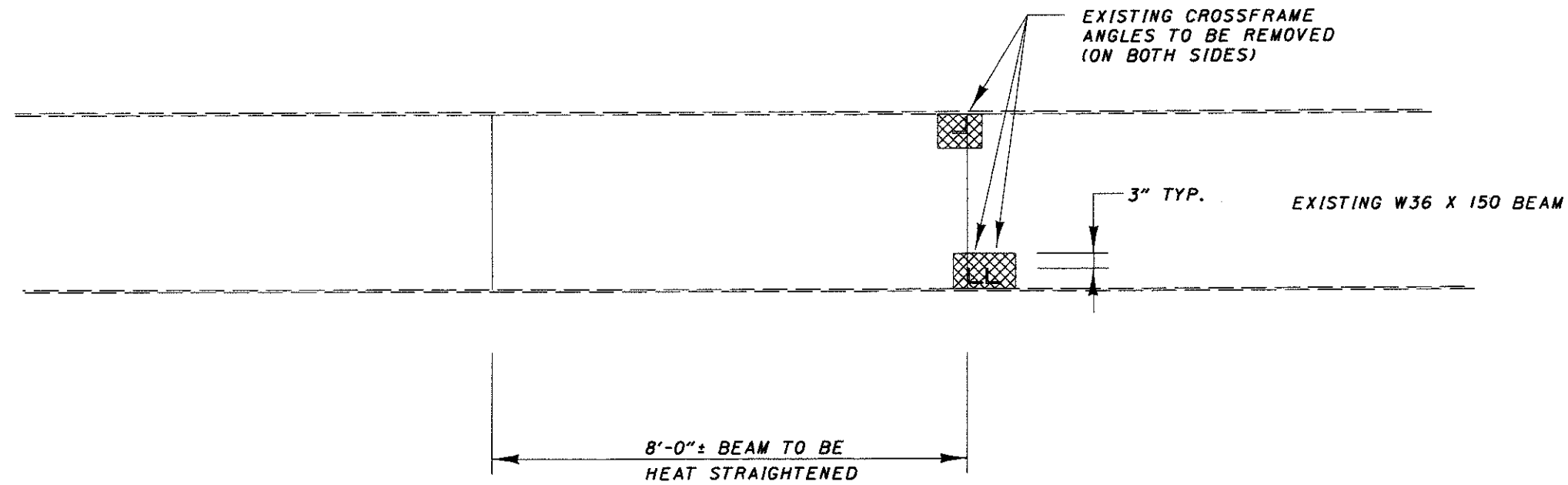


SECTION B-B

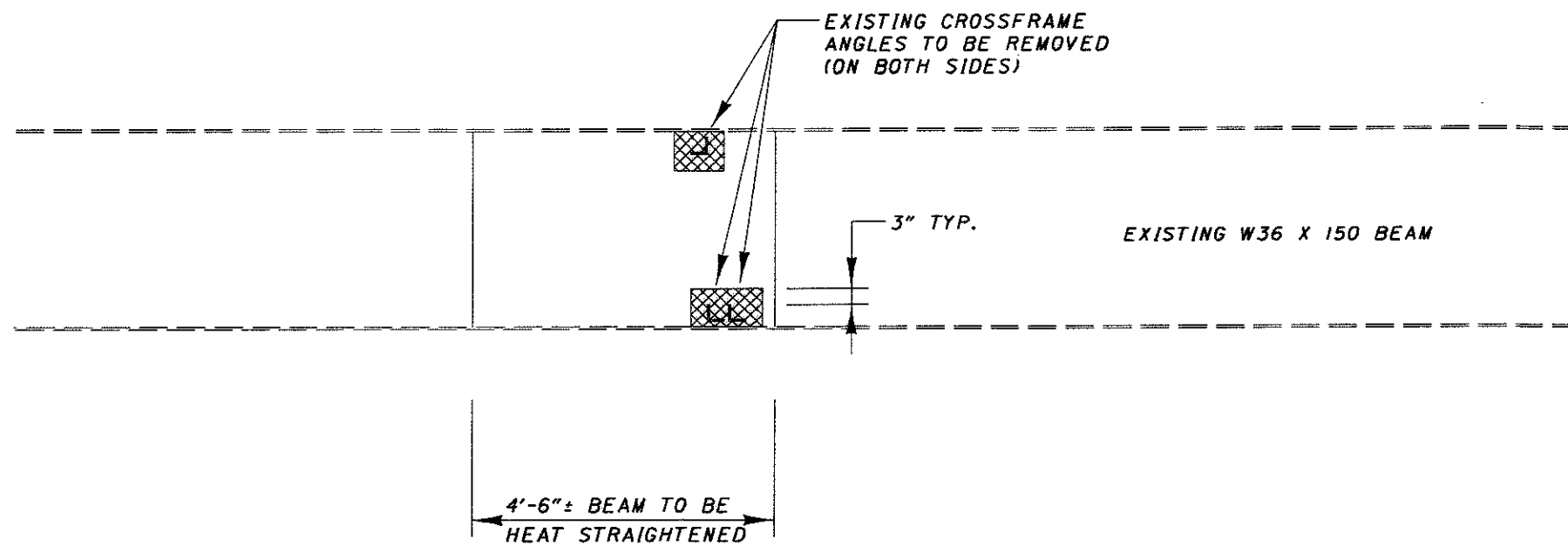
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DESIGNED	DCM
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SECTION VIEWS  
 RIC-30-1384 UNDER STEWART ROAD  
 CRA-30-7.11

DESIGN FILE: i:\projects\25736\Struct\details.dgn  
 WORKSTATION: dmo/lens DATE: 09/08/03



SECTION C-C



SECTION D-D



AREA TO BE PENCIL ABRASIVE BLASTED AND INSPECTED FOR CRACKS AFTER REMOVAL OF THE EXISTING CROSSFRAMES. NON-DESTRUCTIVE TESTING SHALL BE PERFORMED ON BOTH SIDES OF THE OUTSIDE BEAM AND ONE SIDE OF THE ADJACENT BEAM. THESE ITEMS ARE INCIDENTAL TO ITEM SPECIAL.

DATE	8/03
REVIEWED	RDN
STRUCTURAL FILE NUMBER	7001320
DRAWN	DCM
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DESIGNED	DCM
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SECTION VIEWS  
 RIC-30-1384 UNDER STEWART ROAD

CRA-30-7.11