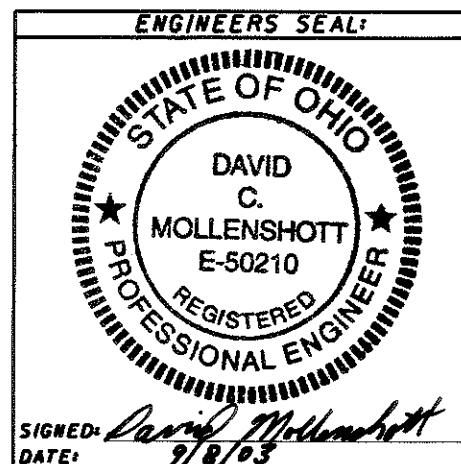
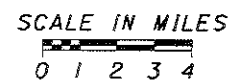


VARIOUS COUNTIES

UNDERGROUND UTILITIES
TWO WORKING DAYS
 BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

TITLE SHEET	1
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STRUCTURE CRA-30-0711R	5-6
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STRUCTURE RIC-30-1384	12-14



STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS
DM-4.3	7-19-02			
DM-4.4	7-19-02			
MT-35.10	4-20-01			832 2-12-03
MT-95.30	4-19-02			833 2-12-03
MT-97.10	4-19-02			
MT-98.13	4-19-02			
MT-98.14	4-19-02			
MT-105.10	10-18-02			
MT-105.11	10-18-02			

CRA-30-7.11

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-SPI0. 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 IS 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.

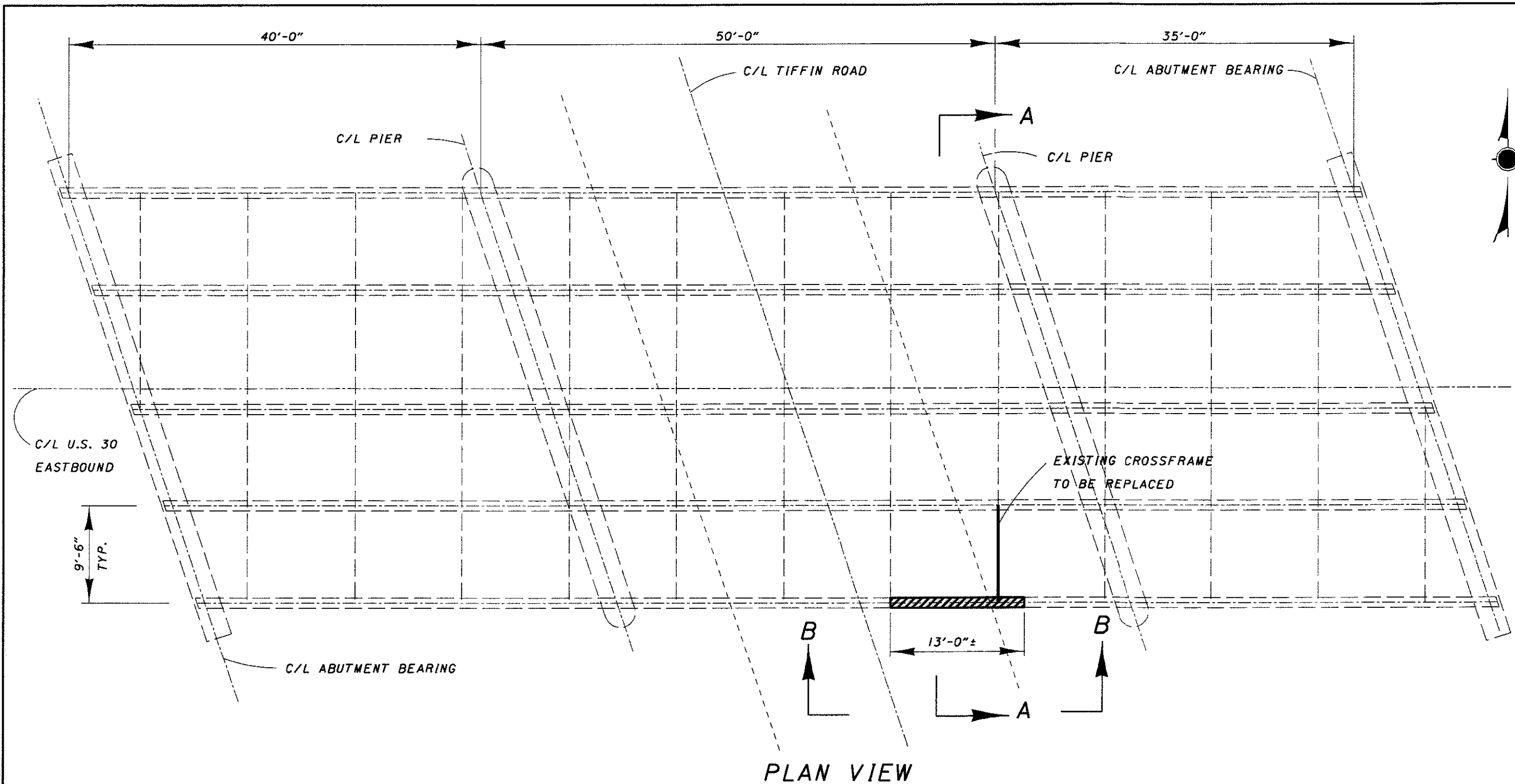
PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER LUMP SUM FOR ITEM 614- MAINTAINING TRAFFIC WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

DCM	CHECKED
CL	

GENERAL SUMMARY

CRA-30-7.11

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



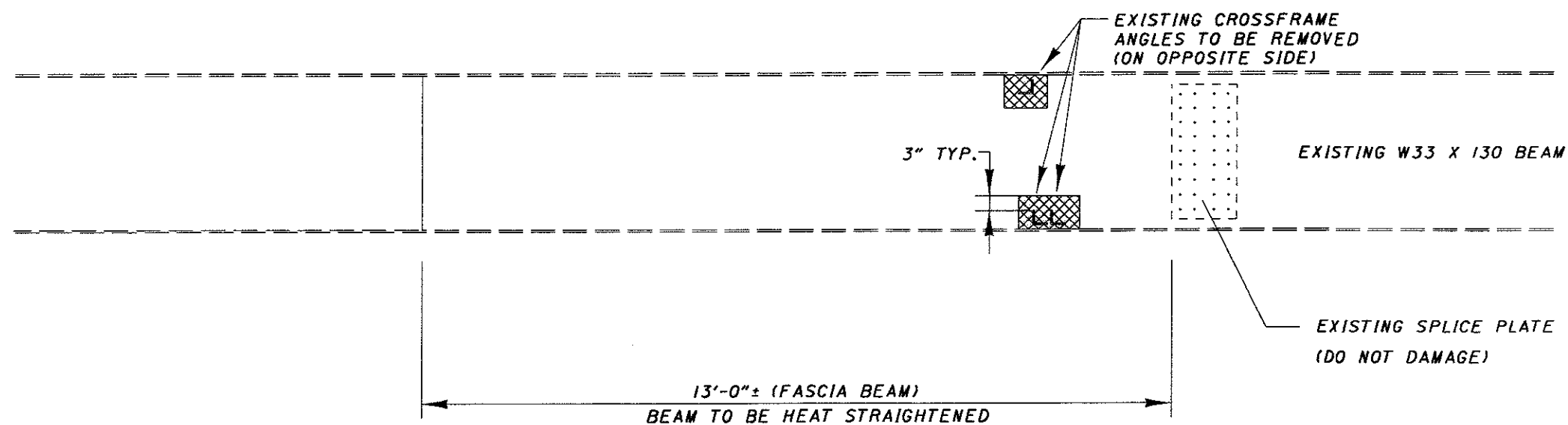
ITEM	QUANTITY	UNIT	DESCRIPTION
SPECIAL	LUMP		HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
514	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
514	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
514	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
514	LUMP		FIELD PAINTING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

ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET NO. 4

NOTES:

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

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.

TACK WELDING IS
NOT PERMITTED

RDN 8/03
STRUCTURAL FILE NUMBER
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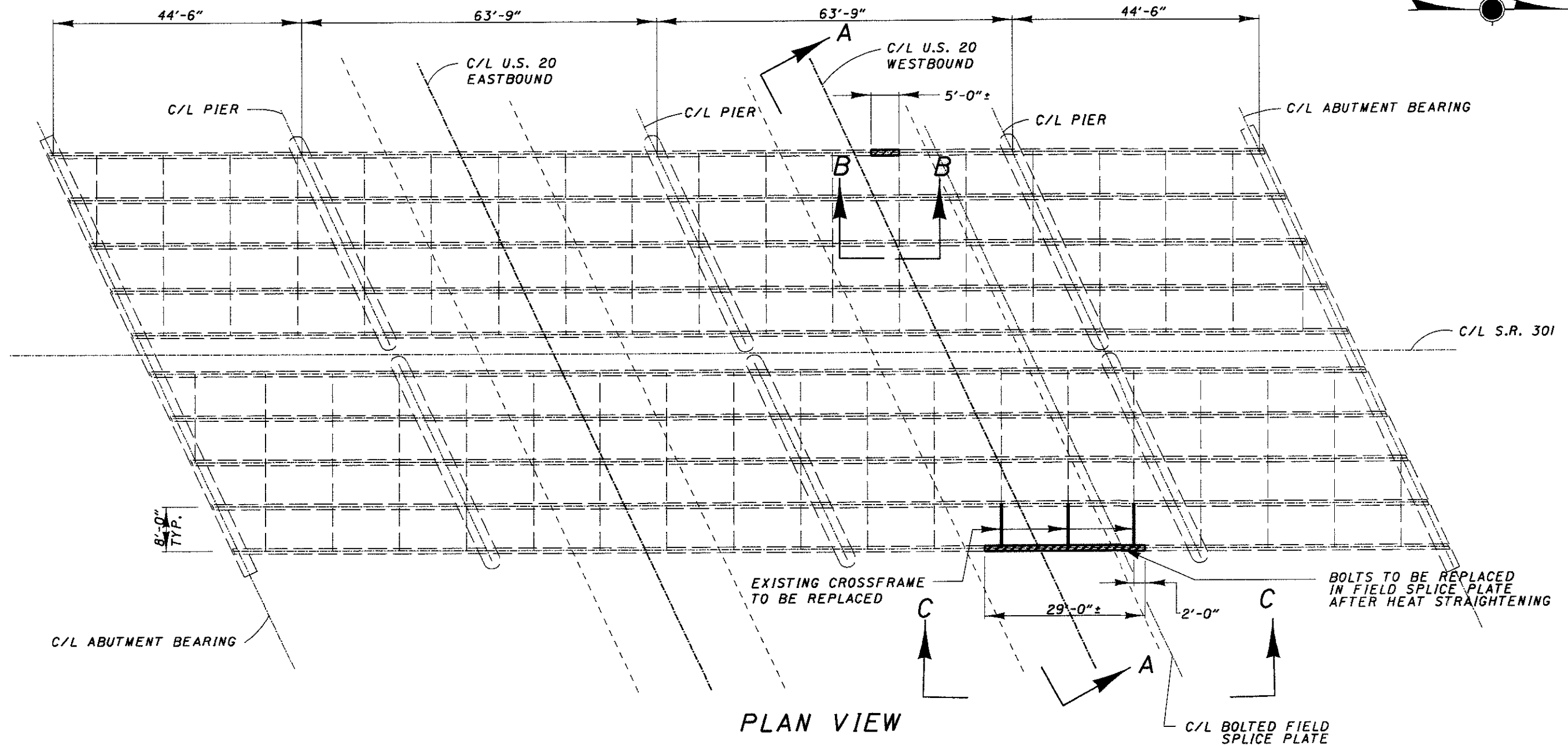
DCM	DCM
CHECKED	REVISED
CL	

SECTION VIEWS
CRA-30-0711R OVER TIFFIN ROAD

CRA-30-7.11

[illegible]

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



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

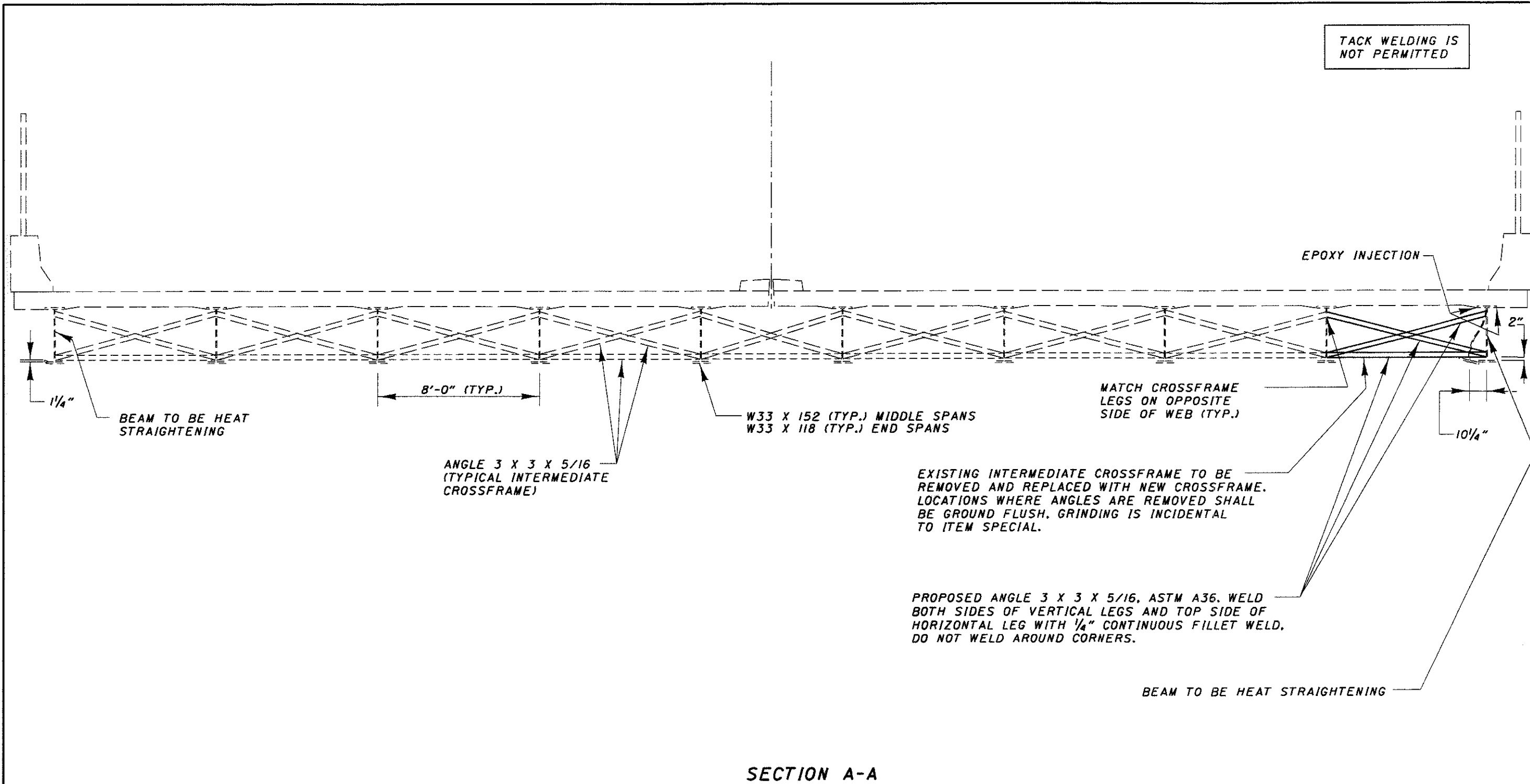
NOTES:

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.

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

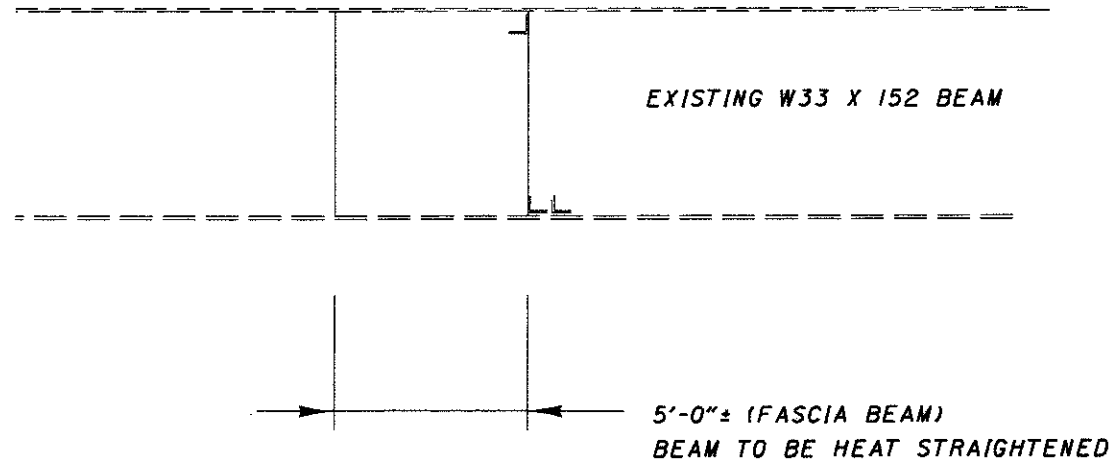
PLAN VIEW
LOR-20-1303 UNDER S.R. 301

CRA-30-7.11

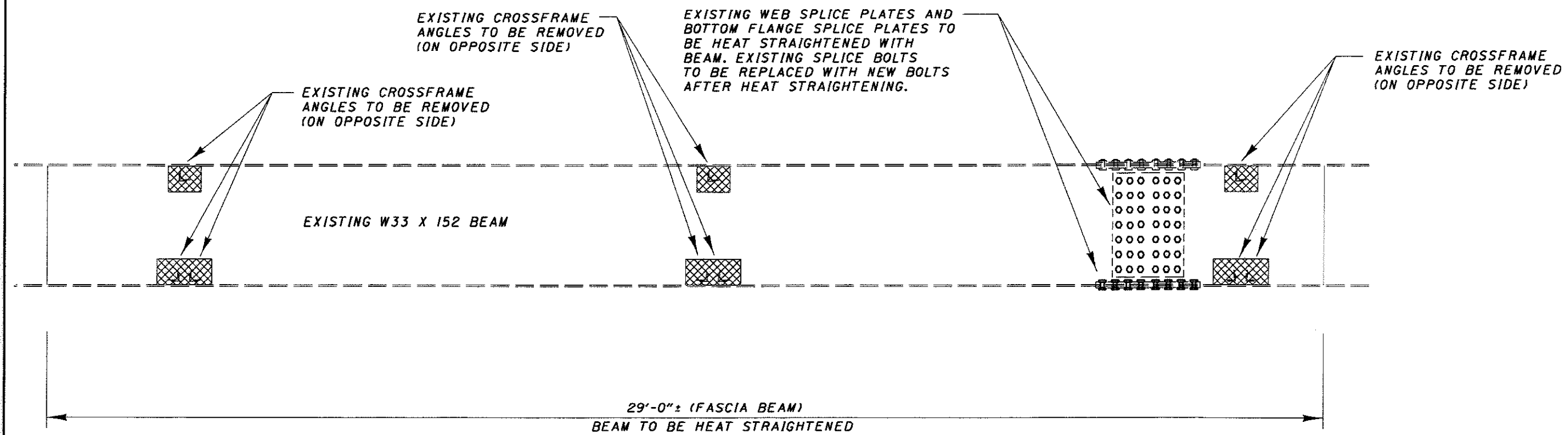


8 14	CRA -30-7.11		SECTION VIEWS LOR-20-1303 UNDER S.R. 301				DESIGNED DCM	CHECKED CL	DRAWN DCM	REVIEWED RDN	DATE 8/03
											STRUCTURAL FILE NUMBER 4706609

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



SECTION B-B

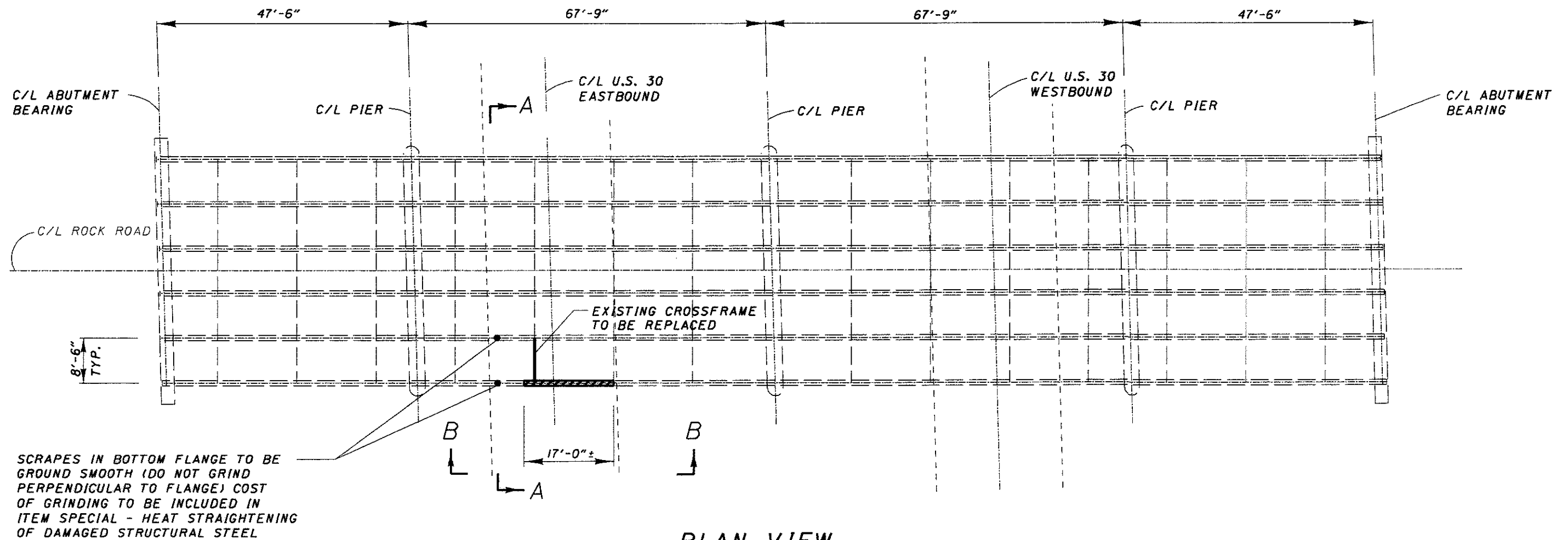


SECTION C-C

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.

SECTION VIEWS		LOR-20-1303 UNDER S.R. 301		CRA-30-7.11	
DESIGNED	DCM	CHECKED	CL	DATE	8/03
DRAWN	DCM	REVIEWED		RDN	4706609

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



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

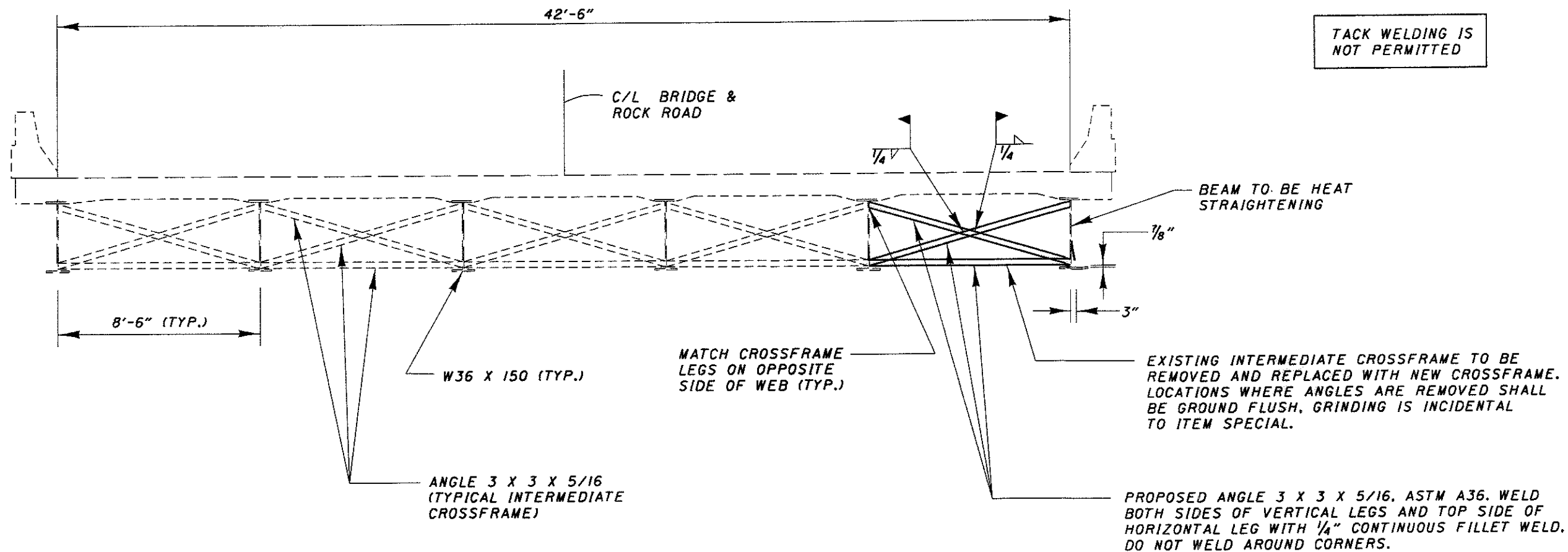
ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET NO. 4

DATE 8/03
REVISED RDN
STRUCTURAL FILE NUMBER 7001010
DMMV DCM
DESIGNED DCM
CHECKED CL

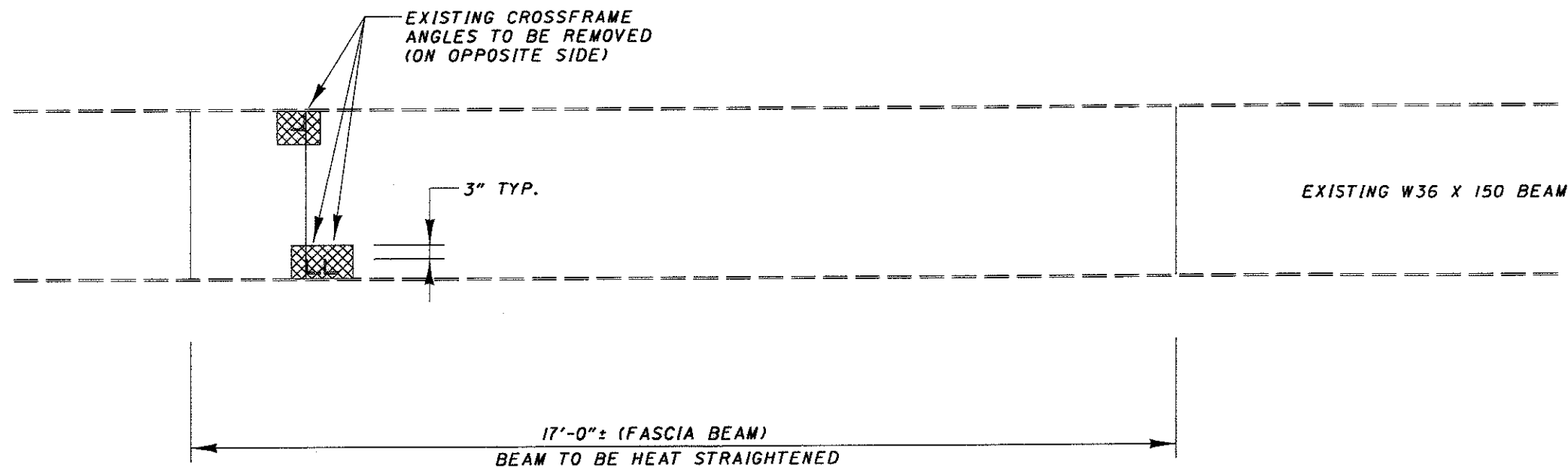
PLAN VIEW
RIC-30-0517 UNDER ROCK ROAD

CRA-30-7.11

10
14



SECTION A-A



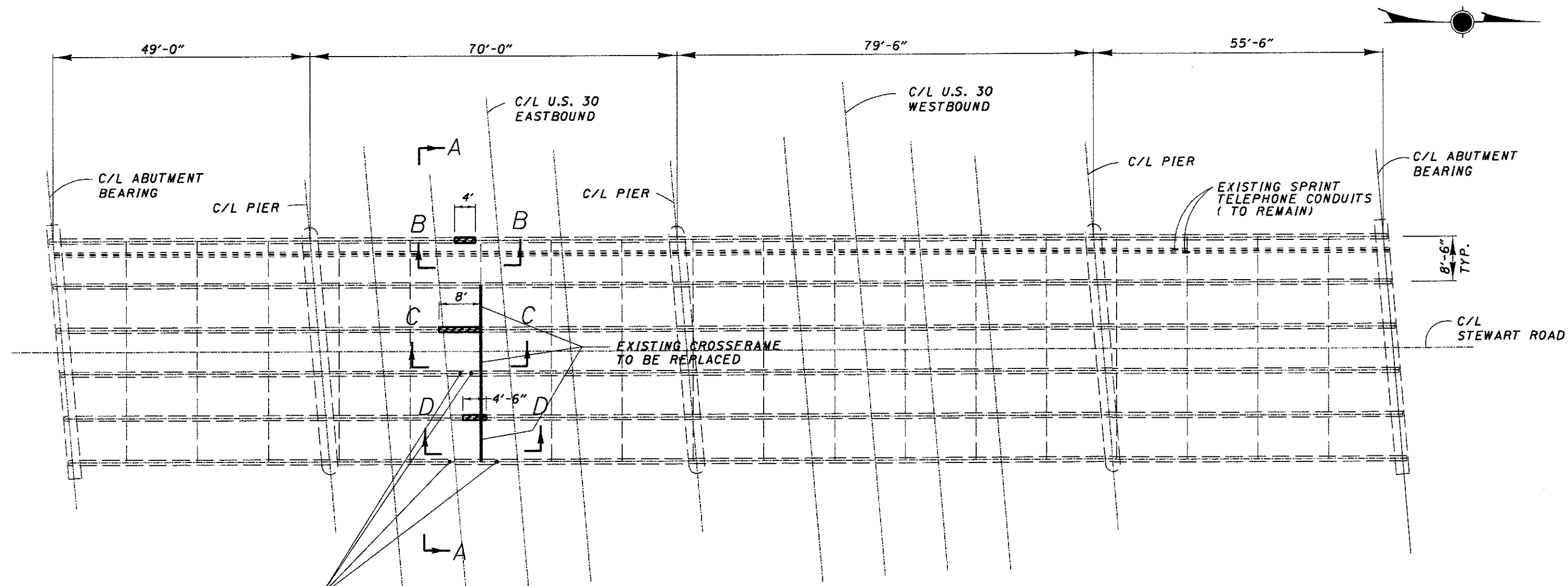
SECTION B-B

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.

TACK WELDING IS NOT PERMITTED

DATE	8/03
REVIEWED	RDN
STRUCTURAL FILE NUMBER	7001010
DRAWN	DCM
REVIS	
DESIGNED	DCM
CHECKED	CL
SECTION VIEWS	
RIC-30-0517 UNDER ROCK ROAD	
CRA-30-7.11	
14	

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



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

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 AND B-B ARE SHOWN ON SHEET NO. 13
SECTION C-C AND D-D ARE SHOWN ON SHEET NO. 14

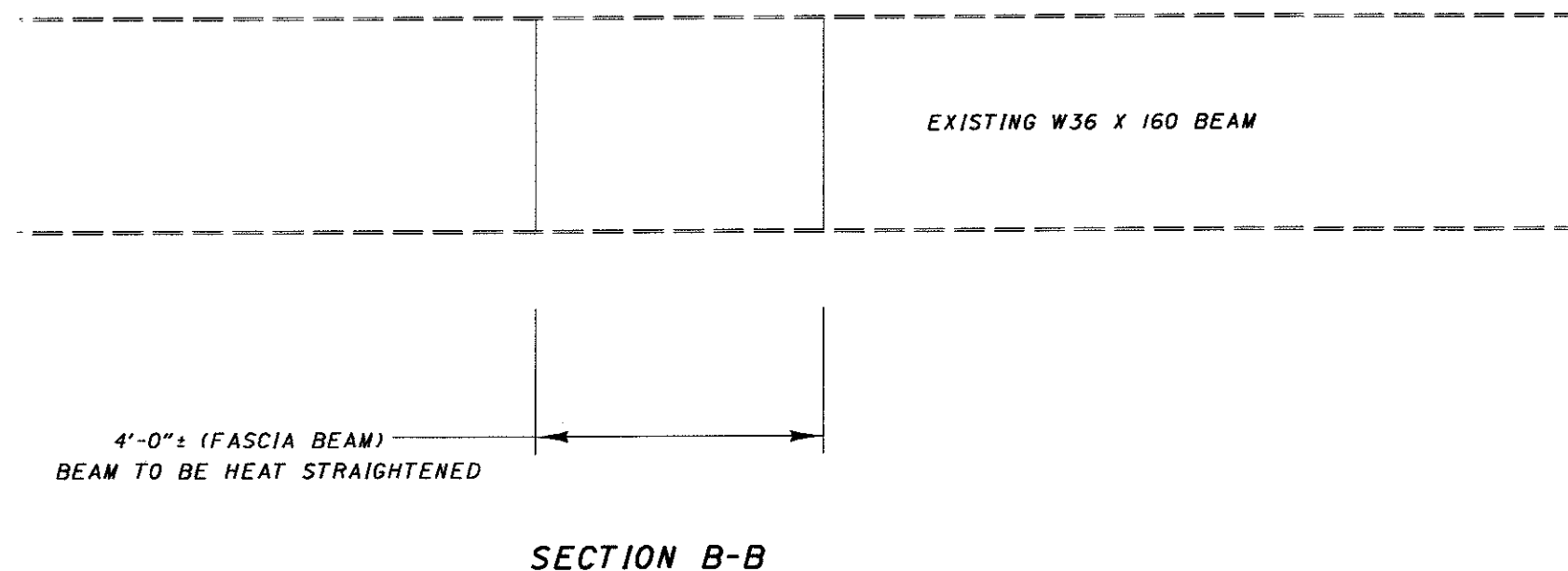
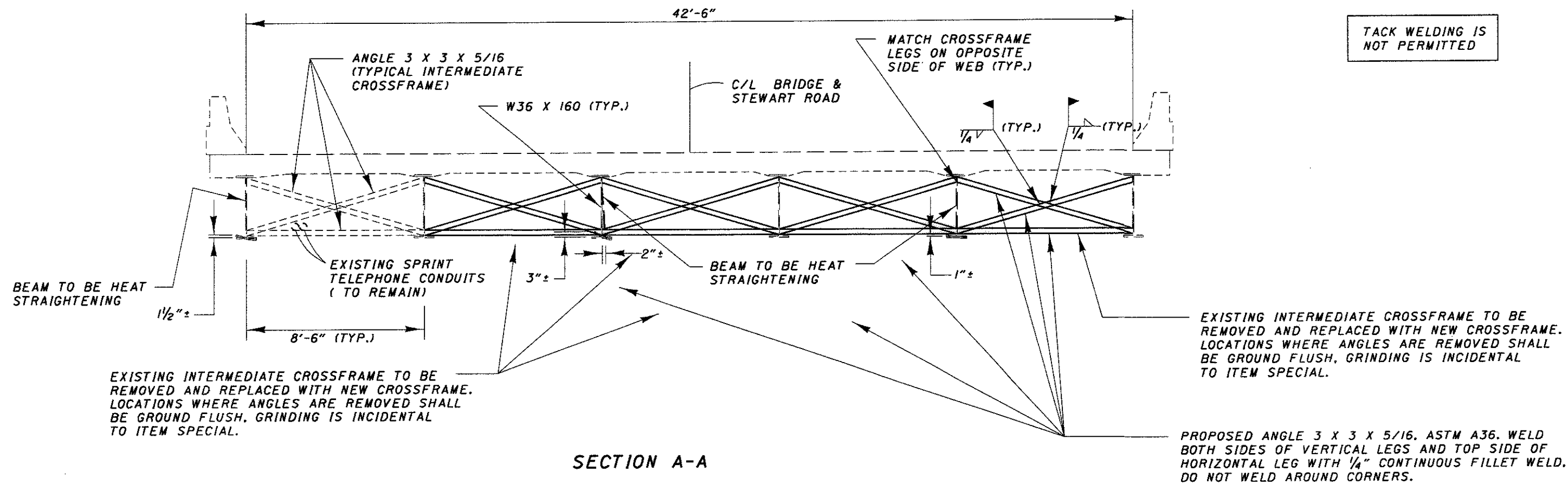
DATE 8/03
REVIEWED RDN
DRAWN DCM
STRUCTURAL FILE NUMBER 7001320

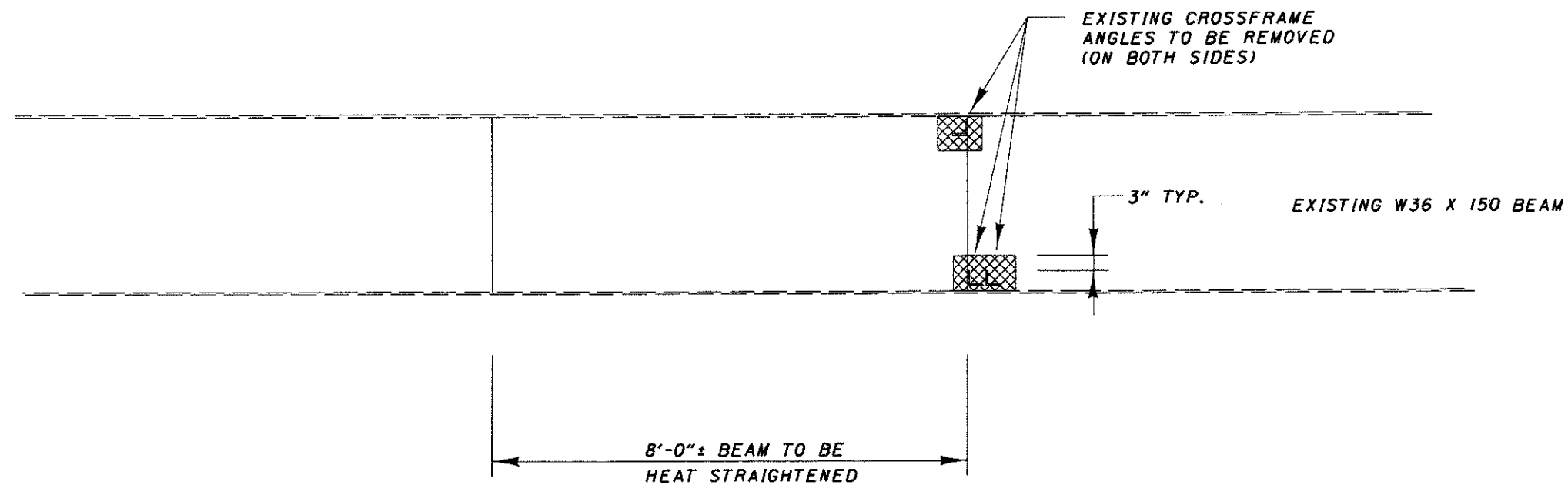
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PLAN VIEW
RIC-30-1384 UNDER STEWART ROAD

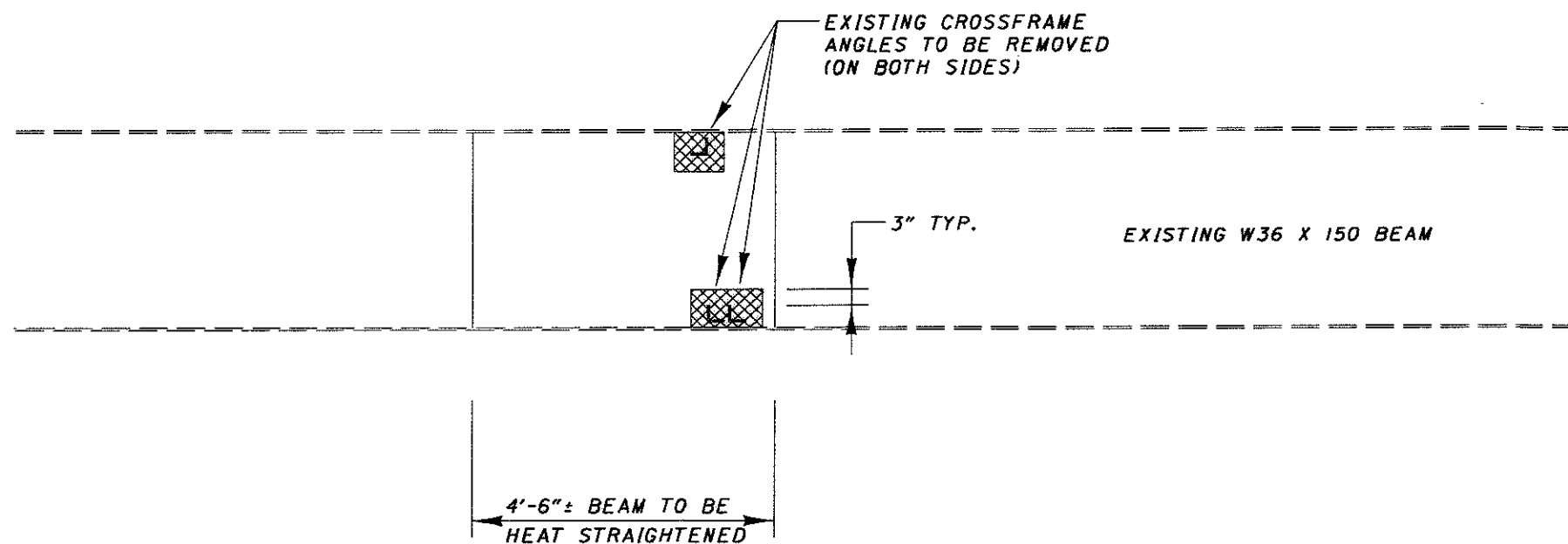
CRA-30-7.11

12
14





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
DESIGNED	DCM
CHECKED	CL
STRUCTURAL FILE NUMBER	7001320

SECTION VIEWS
 RIC-30-1384 UNDER STEWART ROAD

CRA-30-7.11