





# GENERAL SUMMARY

ITEM	PART 1: MAH71-0067 (FEDERAL, STATE & CITY OF YOUNGSTOWN PARTICIPATION)															TOTAL	UNIT	ITEM	DESCRIPTION		
SPECIAL																		LUMP	LUMP	SPECIAL	SURFACE PREPARATION OF EXISTING STEEL (100% SA 2 1/2)
SPECIAL																		LUMP	LUMP	SPECIAL	FIELD PAINTING OF EXISTING STEEL-FULL PRIME-SYSTEM A
SPECIAL																		LUMP	LUMP	SPECIAL	FIELD PAINTING OF EXISTING STEEL-COMPLETE EPOXY
SPECIAL																		LUMP	LUMP	SPECIAL	INTERMEDIATE COAT
																					FIELD PAINTING OF EXISTING STEEL-COMPLETE COAT FINISH-SYSTEM A

ITEM	PART 2: MAH80-0125 LBR (100% STATE PARTICIPATION)															TOTAL	UNIT	ITEM	DESCRIPTION		
SPECIAL																		LUMP	LUMP	SPECIAL	SURFACE PREPARATION AS PER PLAN
SPECIAL																		LUMP	LUMP	SPECIAL	SPOT PRIME AS PER PLAN
SPECIAL																		LUMP	LUMP	SPECIAL	SPOT FINISH AS PER PLAN
SPECIAL																		LUMP	LUMP	SPECIAL	FINISH COAT AS PER PLAN
SPECIAL																		LUMP	LUMP	SPECIAL	POLLUTION CONTROL AS PER PLAN
SPECIAL																		LUMP	LUMP	SPECIAL	BOAT FOR INSPECTION AS PER PLAN

624																		LUMP	LUMP	624	MOBILIZATION
614																		LUMP	LUMP	614	MAINTAINING TRAFFIC
SPECIAL																		200	HOURS	SPECIAL	UNIFORMED POLICE OFFICER WITH PATROL CAR



# GENERAL NOTES

FED RD DIVISION	STATE	PROJECT	3
5	OHIO		13

PLAN NO. BP-1-85

## 1. PAINTING OF BRIDGE APPURTENANCES

FOR MAH-711-0067, AN ESTIMATED QUANTITY OF 2933 TONS OF STRUCTURAL STEEL HAS BEEN CALCULATED FROM ORIGINAL CONSTRUCTION PLANS (SEE #4 BELOW). THIS QUANTITY IS FOR THE PURPOSE OF ESTIMATION ONLY.

ALL STEEL BRIDGE RAILING (EXCEPT GALVANIZED RAILING) AND ALL STEEL SCUPPERS, DOWNSPOUTS, AND BULB ANGLES, SHALL BE CLEANED, PRIMED, AND PAINTED IN ACCORDANCE WITH SPECIFICATIONS. THIS CLEANING ITEM FOR STEEL SCUPPERS AND BULB ANGLES SHALL INCLUDE THE REMOVAL OF ALL DEBRIS SUCH AS GRAVEL AND DIRT WHICH HAVE COLLECTED IN THE AREAS TO TO BE PAINTED. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR SURFACE PREPARATION, PRIME, INTERMEDIATE AND FINISH PAINTING FOR EACH BRIDGE.

THE CONTRACTOR'S ATTENTION IS CALLED TO ALL OF SECTION 100 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OF OHIO DEPARTMENT OF TRANSPORTATION AND SPECIFICALLY TO THE ITEMS LISTED BELOW AS PROVIDED FOR IN THIS SECTION.

## 2. STATE SAFETY REQUIREMENTS

THE CONTRACTOR IS REQUIRED TO MEET THE APPLICABLE SAFETY REQUIREMENTS OF THE OHIO INDUSTRIAL COMMISSION.

## 3. COOPERATION OF CONTRACTOR

THE CONTRACTOR SHALL LEAVE HIS LADDERS, PLATFORMS OR SCAFFOLDS IN PLACE FOR A SUFFICIENT LENGTH OF TIME AND IN SUCH A MANNER TO PERMIT THE ENGINEER OR INSPECTOR TO SAFELY EXAMINE THE WORK PERFORMED.

## 4. PRIOR INSPECTION OF WORK

PROSPECTIVE BIDDERS ARE REQUIRED TO MAKE AN INSPECTION OF THE BRIDGES IN THE FIELD AND TO REVIEW THE PLANS AND SPECIFICATIONS BEFORE SUBMITTING BIDS. SEE SECTION 102.05 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS DATED JANUARY 1, 1983.

## 5. PROTECTION OF PERSONS AND PROPERTY

THE CONTRACTOR SHALL COLLECT, REMOVE AND DISPOSE OF ALL BUCKETS, RAGS, OR OTHER DISCARDED MATERIALS AND HE SHALL LEAVE THE JOB SITE IN A CLEAN CONDITION.

THE CONTRACTOR SHALL PROTECT ALL PORTIONS OF THE STRUCTURE WHICH ARE NOT TO BE PAINTED, AGAINST DAMAGE OR DISFIGUREMENT BY SPLASHES, SPATTERS, SMIRCHES OF PAINT.

WHEN OR WHERE ANY DIRECT OR INDIRECT DAMAGE OR INJURY IS DONE TO PUBLIC OR PRIVATE PROPERTY BY OR ON ACCOUNT OF ANY ACT, OMISSION, NEGLIGENCE, OR MISCONDUCT IN THE EXECUTION OF THE WORK, OR IN CONSEQUENCE OF THE NON-EXECUTION THEREOF BY THE CONTRACTOR, HE SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED, OR HE SHALL MAKE GOOD SUCH DAMAGE OR INJURY IN AN ACCEPTABLE MANNER.

## 6. POLLUTION CONTROL

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO COMPLY WITH POLLUTION CONTROL LAWS, RULES OR REGULATIONS OF FEDERAL, STATE OR LOCAL AGENCIES.

## 7. DATE PAINTED

THE COMPLETION DATE OF THE FINISH COAT OF PAINT, (MONTH AND YEAR) AND THE STRUCTURE FILE NUMBER SHALL BE STENCILED ON THE STRUCTURE AS DIRECTED BY THE ENGINEER, IN A CONTRASTING COLOR. PAYMENT SHALL BE INCLUDED IN LUMP SUM BID PRICE FOR ITEM SPECIAL - FIELD PAINTING OF EXISTING STEEL - COMPLETE COAT FINISH - SYSTEM A.

## 8. COOPERATION WITH RAILROADS

THE CONTRACTOR SHALL COOPERATE AT ALL TIMES WITH THE LOCAL OFFICIALS OF THE RAILROAD COMPANY. HE SHALL USE ALL REASONABLE CARE AND DILIGENCE IN THE WORK IN ORDER TO AVOID ACCIDENTS, DAMAGE OR INTERFERENCE WITH THE TRAINS OR OTHER PROPERTY OF THE RAILROAD. THE CONTRACTOR SHALL NOTIFY THE LOCAL OFFICIALS OF THE RAILROAD PRIOR TO STARTING WORK THAT MAY AFFECT RAILROAD PROPERTY AND FACILITIES AND SHALL PAY THE RAILROAD COMPANY THE COST OF THE FLAGMEN FURNISHED BY THE RAILROAD COMPANY AND MADE NECESSARY BECAUSE OF ANY OF THE CONTRACTORS' OPERATIONS OVER OR ADJACENT TO THE TRACKS.

NO SCAFFOLD, PLANKS OR OTHER EQUIPMENT SHALL BE SUSPENDED OR ERECTED ABOVE OR WITHIN 10 FEET OF A RAIL OVER WHICH TRAINS ARE OPERATING WITHOUT PRIOR WRITTEN APPROVAL OF THE CHIEF ENGINEER, OR HIS AUTHORIZED REPRESENTATIVE, OF THE RAILROAD COMPANY.

FAILURE TO NOTIFY THE RAILROAD COMPANY AS NOTED ABOVE SHALL BE CAUSE FOR STOPPING WORK UNTIL ALL PROVISIONS FOR PROTECTING RAILROAD PROPERTY HAVE BEEN PROVIDED.

## 9. LIMITATIONS

NOTE: DUE TO THE NATURE OF THIS PAINTING SYSTEM (THREE COATS-PRIME, INTERMEDIATE, & FINISH), THE APPROVAL OF THE PROJECT ENGINEER IS REQUIRED PRIOR TO THE APPLICATION OF THE NEXT COAT.

## 10. PROVISIONS - SYSTEM A

- A. MATERIAL-ALL PAINT SHALL CONFORM TO 708 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, WITH THE EXCEPTION OF THE INTERMEDIATE EPOXY TIE COAT.
- B. GENERAL-THE SURFACES TO BE PAINTED SHALL BE CLEAN AND DRY. PAINT SHALL NOT BE APPLIED IN RAIN, SNOW, FOG OR MIST, OR TO FROSTED OR ICE-COATED SURFACES. TEMPERATURE AND HUMIDITY SHALL BE AT LEVELS TO CAUSE A CLEARLY DEFINED THIN FILM OF WATER PLACED WITH A DAMP CLOTH UPON THE SURFACE TO BE PAINTED TO EVAPORATE WITHIN 15 MINUTES, OR THE RELATIVE HUMIDITY SHALL BE LESS THAN 85 PERCENT.
- C. BEFORE ANY WORK AT EACH BRIDGE SITE BEGINS, THE CONTRACTOR SHALL DEMONSTRATE TO THE INSPECTOR HIS ABILITY TO PROVIDE THE REQUIRED SURFACE PREPARATION. THIS WILL BE ACCOMPLISHED ON A SMALL AREA OF THE BRIDGE NEAR ONE ABUTMENT. THE APPEARANCE OF THE BLAST CLEANED DEMONSTRATION AREA SHALL BE COMPARED TO THE COLOR PICTORIALS MENTIONED ON SHEET 4. THE WORK WILL NOT PROCEED UNTIL THE INSPECTOR IS ASSURED THAT THE CONTRACTOR CAN MEET THESE REQUIREMENTS. AT THAT TIME, WORK CAN PROCEED AND THE CONTRACTOR IS EXPECTED TO CLEAN THE REMAINDER OF THE BRIDGE TO THE SAME DEGREE AS THE DEMONSTRATION AREA.
- D. THE PAINT SHALL BE APPLIED WHEN THE AMBIENT TEMPERATURE AND THE SURFACE TO BE PAINTED ARE 25°F OR HIGHER; IT SHALL BE APPLIED BY SPRAY METHODS EXCEPT THAT SMALL TOUCH-UP AREAS MAY BE BRUSHED.

GENERAL NOTES

# GENERAL NOTES

FED RD DIVISION	STATE	PROJECT	4
5	OHIO		13

PLAN NO. BP-1-85

## THE FOLLOWING GENERAL NOTES APPLY TO PART I (MAH-7II-0067):

### ITEM SPECIAL: SURFACE PREPARATION OF EXISTING STEEL (100% SA 2 1/2)

ALL HEAVY RUST AND SCALE SHALL FIRST BE REMOVED FROM SURFACES TO BE PAINTED BY CHIPPING AND SCRAPING. SCALING HAMMERS MAY BE USED TO REMOVE HEAVY RUST SCALE, BUT HEAVIER TYPE CHIPPING HAMMERS WHICH WOULD EXCESSIVELY SCAR THE METAL SHALL NOT BE USED.

ALL SURFACES TO BE PAINTED SHALL BE COMPLETELY BLAST CLEANED OF ALL EXISTING PAINT, RUST, ETC. TO NEAR WHITE METAL (SA 2 1/2) ACCORDING TO ASTM D 2200 OR SSPC-SP10. THE FINAL APPEARANCE OF THE BLASTED SURFACE SHALL BE EQUAL TO VISUAL STANDARDS SSPC-VIS 1 OR SWEDISH PICTORIAL D SA 2 1/2. THE PROFILE HEIGHT OF THE BLASTED SURFACE SHALL BE 2-3 MILS.

ABRASIVES USED FOR BLAST CLEANING SHALL BE EITHER CLEAN DRY SAND, STEEL SHOT, MINERAL GRIT, OR MANUFACTURED GRIT AND SHALL HAVE A GRADATION SUCH THAT THE ABRASIVE WILL PRODUCE A UNIFORM PROFILE.

ALL CLEANED SURFACES SHALL BE APPROVED BY THE INSPECTOR PRIOR TO PAINTING, AND PAINTING SHALL BE COMPLETED BEFORE THE CLEANED SURFACES HAVE DEGRADED FROM THE PRESCRIBED STANDARDS. IN EVERY CASE, BARE STEEL SURFACES EXPOSED DURING THE CLEANING OPERATION SHALL BE PRIME COATED THE SAME DAY.

THE COST OF ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS ITEM.

### ITEM SPECIAL: FIELD PAINTING OF EXISTING STEEL - FULL PRIME - SYSTEM A

THE PRIME COAT SHALL CONSIST OF 708.17. SEVERELY PITTED AREAS OF STEEL OR PINHOLED AREAS OF PRIME COAT SHALL BE RECOATED IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS.

THE DRY FILM THICKNESS FOR THE PRIME COAT SHALL BE NOT LESS THAN 5.0 MILS NOR MORE THAN 10.0 MILS, EXCEPT THAT ON FAYING SURFACES OF BOLTED SPLICES THE THICKNESS SHALL NOT EXCEED 5.0 MILS. THICK FILMS SHALL BE REDUCED BY SCREENING, SANDING, OR SWEEPING/BLASTING. ANY RECOATING OF PRIME PAINT THAT HAS CURED LONGER THAN 24 HOURS SHALL BE DONE AS RECOMMENDED BY THE PAINT MANUFACTURER'S PRINTED INSTRUCTIONS.

IF "MUD CRACKING" OCCURS, THE AFFECTED AREA SHALL BE SCRAPED TO SOUNDLY BONDED PAINT AND THE AREA RECOATED.

THE COST OF ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS ITEM.

### ITEM SPECIAL: FIELD PAINTING OF EXISTING STEEL - COMPLETE EPOXY INTERMEDIATE COAT

THE INTERMEDIATE COAT SHALL CONSIST OF A COMPLETE COAT OF A TWO COMPONENT EPOXY PAINT. MATERIAL SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

THE COST OF ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS ITEM.

### ITEM SPECIAL: FIELD PAINTING OF EXISTING STEEL - COMPLETE COAT FINISH - SYSTEM A

THE TOP COAT SHALL CONSIST OF 708.18 AND SHALL BE APPLIED BY SPRAY METHODS, EXCEPT THAT SMALL TOUCH-UP AREAS MAY BE BRUSHED. THE TOP COAT SHALL BE TINTED A COLOR WHICH IS APPROVED BY THE DISTRICT BRIDGE ENGINEER.

THE COST OF ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS ITEM.

NOTE: ALL THREE COATS OF PAINT ON EACH STRUCTURE SHALL BE SUPPLIED FROM ONE AND ONLY ONE MANUFACTURER, IN ORDER TO INSURE COMPATIBILITY OF THE COATS.

## THE FOLLOWING GENERAL NOTES APPLY TO PART I & PART 2:

### METHOD OF APPLICATION

ALL COATS SHALL BE APPLIED BY AIRLESS SPRAY METHOD. THE MANUFACTURER CAN SUPPLY SPECIFIC INFORMATION CONCERNING RECOMMENDED AIRLESS SPRAY EQUIPMENT. GENERALLY, THE AIRLESS SPRAY GUN SHALL BE HELD 8" - 10" FROM THE SURFACE AND AT A RIGHT ANGLE TO THE SURFACE. EACH SUCCESSIVE PASS OF THE GUN SHALL OVERLAP THE PREVIOUS PASS BY 50%. MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS ARE AVAILABLE THROUGH THE MANUFACTURER.

SPRAY APPLICATION SHALL PRODUCE A WET COAT AT ALL TIMES; THE DEPOSITION OF SEMIDRY PARTICLES SHALL BE AVOIDED.

### ITEM 624 MOBILIZATION

THE CONTRACTOR SHALL ON ANY CONTRACT FOR WHICH HIS BID EXCEEDS \$50,000.00, INCLUDE AN AMOUNT TO COVER ANY APPLICABLE EXPENDITURES REFERRED TO UNDER ITEM 624 OF THE 1983 CONSTRUCTION AND MATERIAL SPECIFICATIONS. PAYMENT SHALL BE THE LUMP SUM BID FOR ITEM 624, MOBILIZATION.

### ITEM 614 MAINTAINING TRAFFIC

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WARNING AND REGULATORY SIGNS, LIGHTS, BARRICADES, PAVEMENT MARKING, AND ANY OTHER DEVICE NECESSARY TO MAINTAIN TRAFFIC AS INDICATED IN THE OHIO MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE OPERATIONS, CURRENT EDITION, LATEST REVISIONS. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

A FLASHING ARROW WILL BE USED AT ALL PARTS AS PER STANDARD DRAWING TC-35.10 DATED 10/5/77 PAGE C-20. PAYMENT FOR FLASHING ARROW SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

### ITEM SPECIAL - UNIFORMED POLICE OFFICER WITH PATROL CAR

THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A SPECIAL DUTY UNIFORMED POLICE OFFICER WITH PATROL CAR FOR THE PURPOSE OF CONTROLLING THROUGH TRAFFIC. THE POLICE OFFICER WITH A PATROL CAR SHALL BE UTILIZED DURING INSTALLATION AND REMOVAL OF TRAFFIC CONTROL DEVICES FOR LANE RESTRICTIONS AND AS REQUIRED BY THE ENGINEER. THE OFFICER SHALL CONSTANTLY MOVE WITH THE BACKUP OF TRAFFIC SO THAT HE IS ALWAYS IN POSITION NEAR THE END OF THE STOPPED TRAFFIC TO ASSIST IN CONTROLLING TRAFFIC, WARNING TRAFFIC OF THE RESTRICTION AND INFORMING DRIVERS AS TO THE NATURE OF THE DELAY.

PAYMENT FOR THE ABOVE SHALL BE ITEM SPECIAL - UNIFORMED POLICE OFFICER WITH PATROL CAR - 200 HOURS.

Rev. 4-8-85 RLE

GENERAL NOTES

# GENERAL NOTES

THE FOLLOWING GENERAL NOTES SHALL APPLY TO PART 2 (MAH-80-0125 L & R):

ITEM SPECIAL: SURFACE PREPARATION ( AS PER PLAN )

- (1) THE CONTRACTOR WILL HIGH PRESSURE WATER CLEAN (1800 PSI MINIMUM NOZZLE PRESSURE) ALL STRUCTURAL STEEL WHICH IS TO BE SANDBLASTED AND/OR PAINTED.
- (2) FOLLOWING THE WATER CLEANING OPERATION, THE CONTRACTOR WILL SPOT BLAST ALL RUSTED AREAS TO GRADE SA 2½ AS DIRECTED BY THE PROJECT ENGINEER.

ITEM SPECIAL: SPOT PRIME ( AS PER PLAN )

ALL AREAS WHICH HAVE BEEN SPOT BLASTED WILL BE SPOT PRIMED USING C.M.S. 708.17, INORGANIC ZINC AT THE RATE OF FIVE (5) MILLS DRY.

ITEM SPECIAL: SPOT FINISH ( AS PER PLAN )

ALL AREAS WHICH HAVE BEEN SPOT PRIMED WILL BE SPOT FINISHED USING C.M.S. 708.18, VINYL APPLIED AT THE RATE OF THREE (3) MILLS DRY.

ITEM SPECIAL: FINISH COAT ( AS PER PLAN )

THE CONTRACTOR WILL APPLY ONE (1) COMPLETE COAT OF C.M.S. 708.18 VINYL ( SEE DRAWING ON SHEET NO. 11 ) TO THE OUTSIDE OF ALL FOUR (4) FACIA GIRDERS AT THE RATE OF THREE (3) MILLS DRY.

NOTE: BEFORE BEGINNING ANY WORK, THE CONTRACTOR WILL CONTACT THE FOLLOWING AGENCIES TO OBTAIN ANY WORK PERMITS WHERE APPLICABLE. THE CONTRACTOR WILL COMPLY TO ALL REGULATIONS, GUIDELINES AND RESTRICTIONS OF THESE AGENCIES:

1. MAHONING VALLEY SANITARY DISTRICT  
1181 CHILTON-MCDONALD ROAD  
MINERAL RIDGE, OHIO 44440  
CONTACT: JOHN E. TUCKER  
PHONE: (216) 799-6315
2. OHIO EPA  
2110 E. AURORA ROAD  
TWINSBURG, OHIO 44087  
LOCAL CONTACT: BOB WYSENSKI  
PHONE: (216) 425-9171

ITEM SPECIAL: POLLUTION CONTROL ( AS PER PLAN )

THE CONTRACTOR WILL PROVIDE EPA APPROVED FLOTATION DEVICES FOR THE PURPOSES OF CONTROLLING ANY WATER POLLUTION. FLOTATION DEVICES WILL BE PROVIDED, INSTALLED, AND MAINTAINED BY:

1. ENVIRONMENTAL POLLUTION CONTROL SERVICE, INC. ( EPCS )  
250 N. CLEVELAND--MASSILLON ROAD  
MONTROSE, OHIO 44313  
CONTACT: KENNY GOSSARD  
PHONE: (216) 867-8925
- OR 2. SAMSEL INDUSTRIES  
1285 OLD RIVER ROAD  
CLEVELAND, OHIO 44113  
LOCAL CONTACT: BOB LEHMAN  
PHONE: (216) 241-0333
- OR 3. MELADON ENVIRONMENTAL CONTROLS  
8569 BRECKSVILLE ROAD  
BRECKSVILLE, OHIO 44141  
LOCAL CONTACT: DON SEHELL  
PHONE: (216) 526-8202

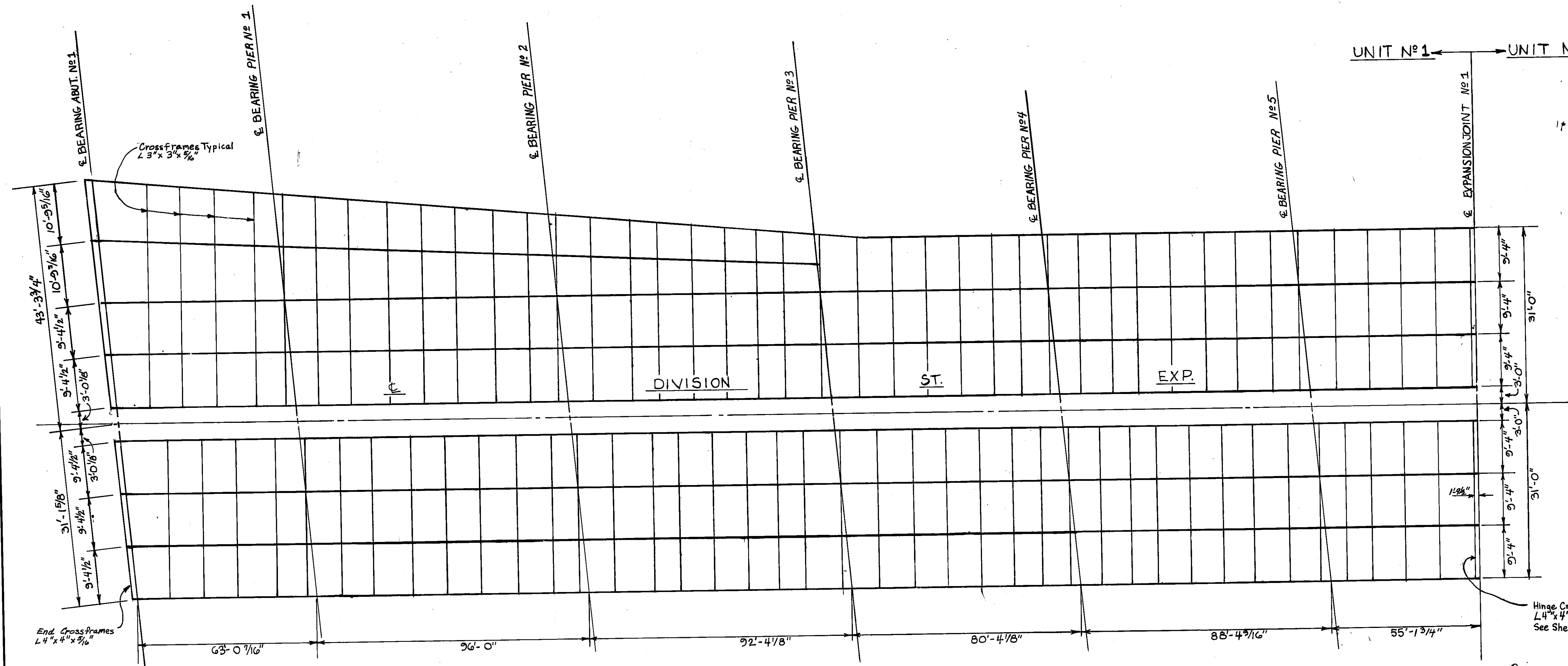
THE FLOTATION DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING ANY WORK. NO WORK WILL BE PERFORMED OVER WATER WHICH IS NOT PROTECTED BY THE FLOTATION DEVICES. THE PAINTING CONTRACTOR WILL COORDINATE HIS WORK WITH THE COMPANY PROVIDING THE FLOTATION DEVICES. THE COST OF THIS WILL BE BORN BY THE CONTRACTOR.

NOTE: THE REMOVAL OF ANY ENTRAPMENTS WILL BE MADE BY THE SAME COMPANY WHO PROVIDES THE FLOTATION DEVICES. THIS SAME COMPANY WILL BE RESPONSIBLE FOR REMOVING THIS EQUIPMENT AFTER THE WORK IS COMPLETED.

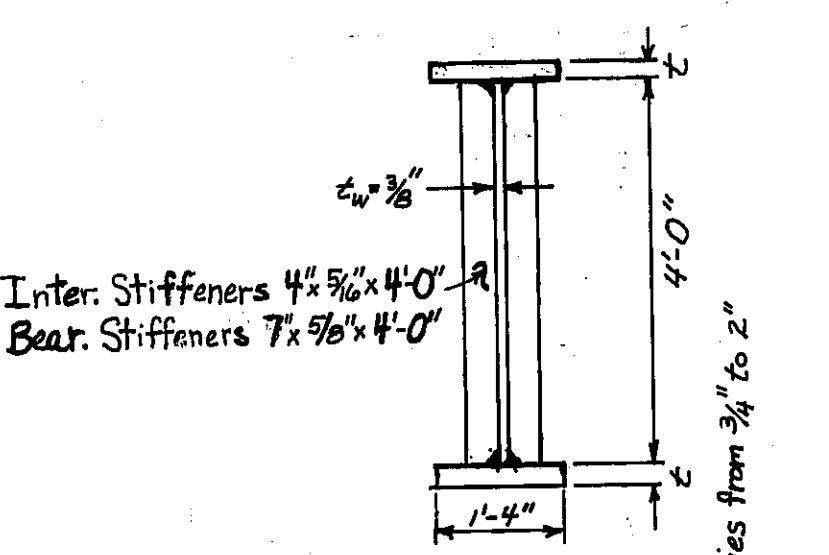
ITEM SPECIAL: BOAT FOR INSPECTION ( AS PER PLAN )

FOR THE PURPOSE OF INSPECTION AND SAFETY, THE CONTRACTOR WILL PROVIDE A NEW FOURTEEN (14) FEET BOAT AND NEW TRAILER WITH A NEW 9.9 H.P. ENGINE FOR THE INSPECTOR. LIFE JACKETS SHALL BE PROVIDED FOR ALL OCCUPANTS OF THIS BOAT.

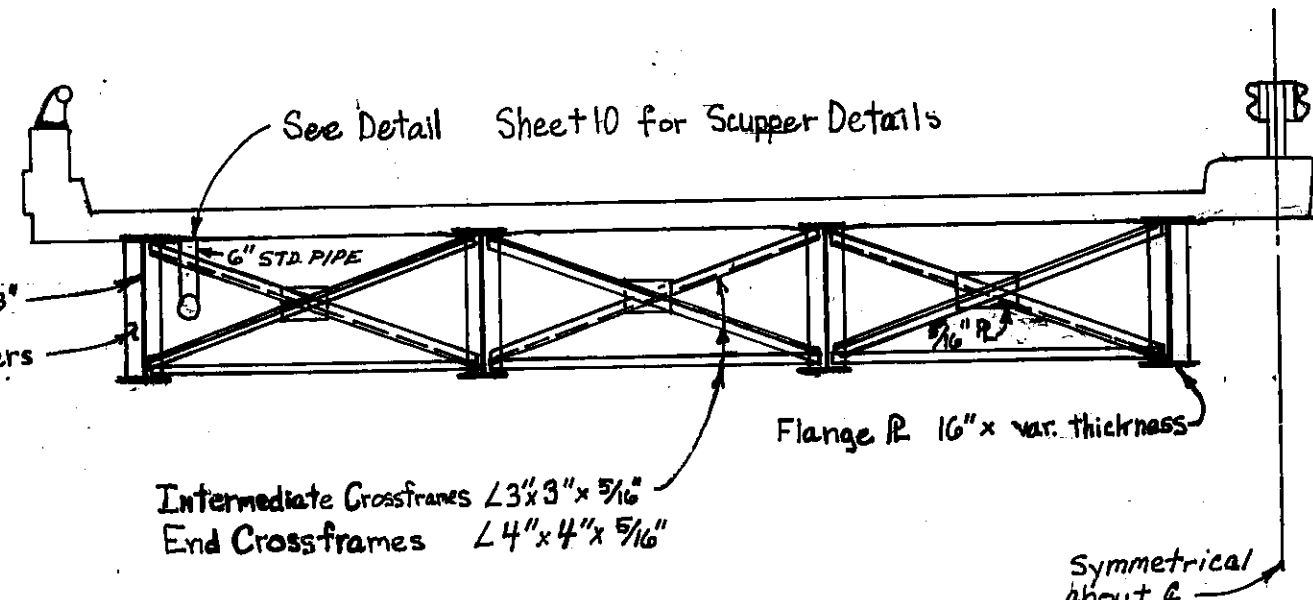
UNIT No 1 ← → UNIT No 2



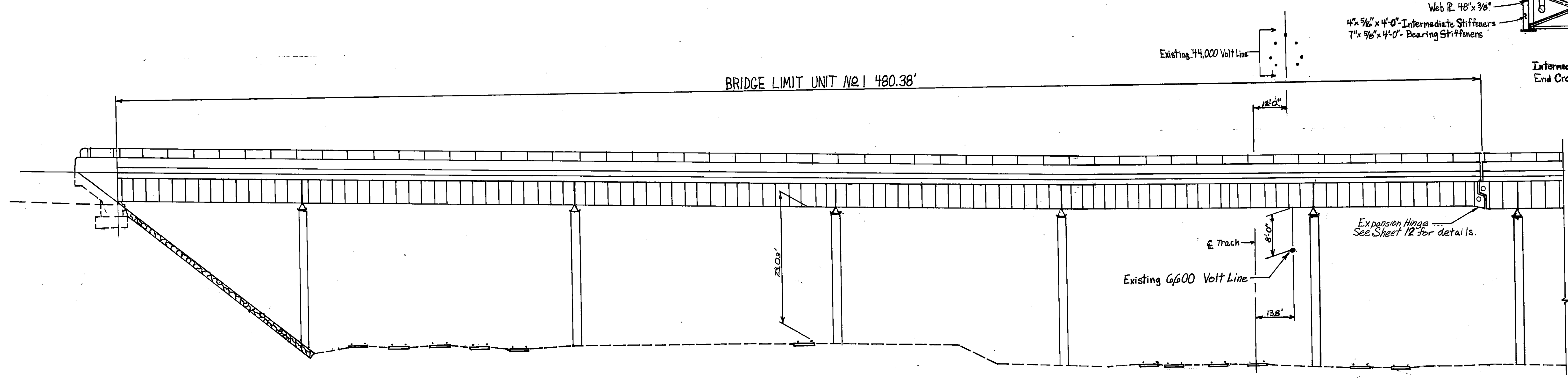
FRAMING PLAN UNIT No 1



TYPICAL GIRDER UNIT No 1

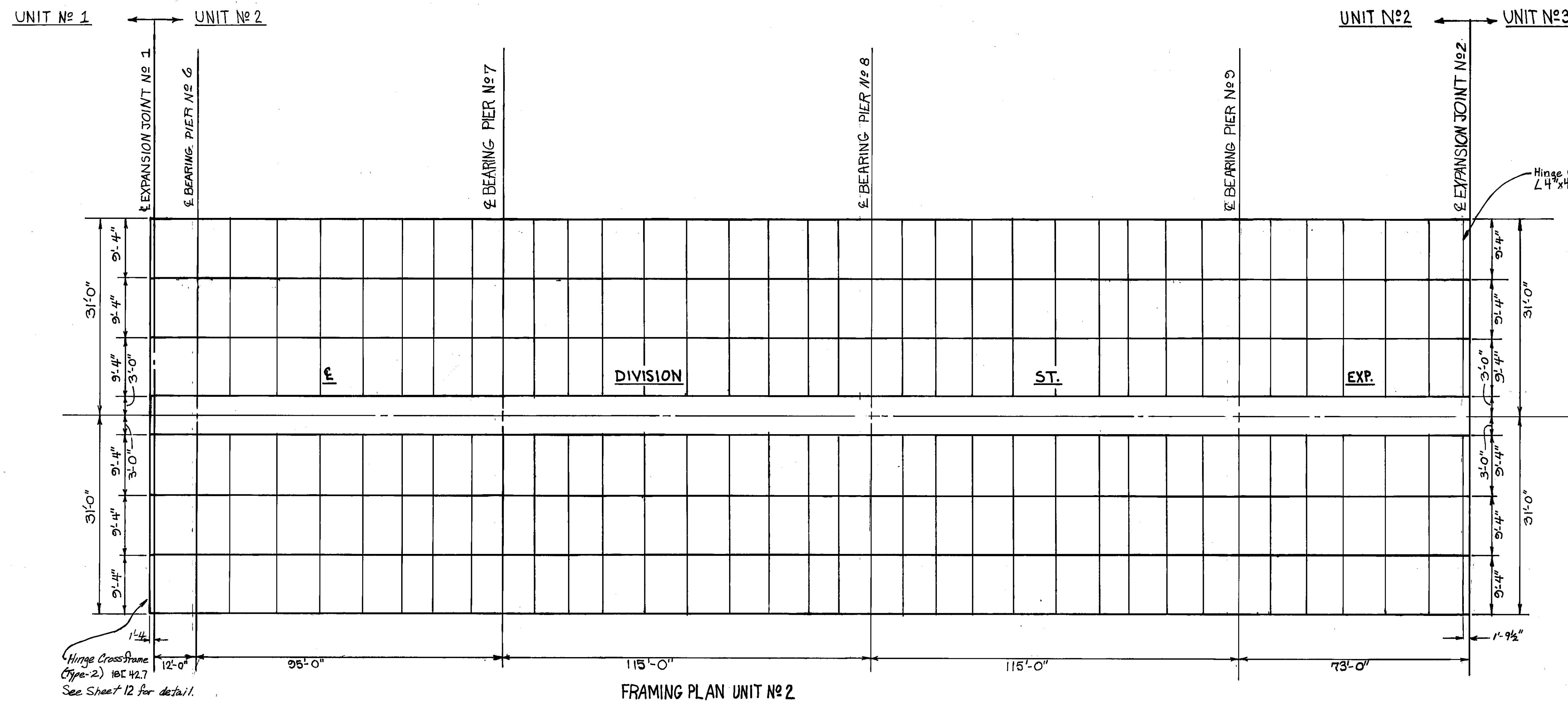


TYPICAL HALF TRANSVERSE SECTION UNIT No 1



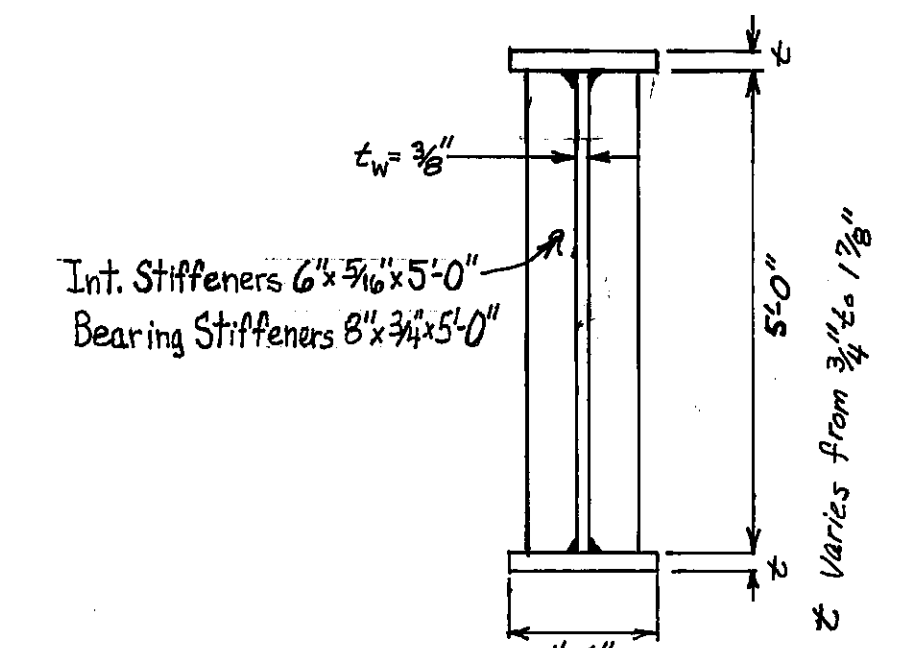
BRIDGE LIMIT UNIT No 1 480.38'



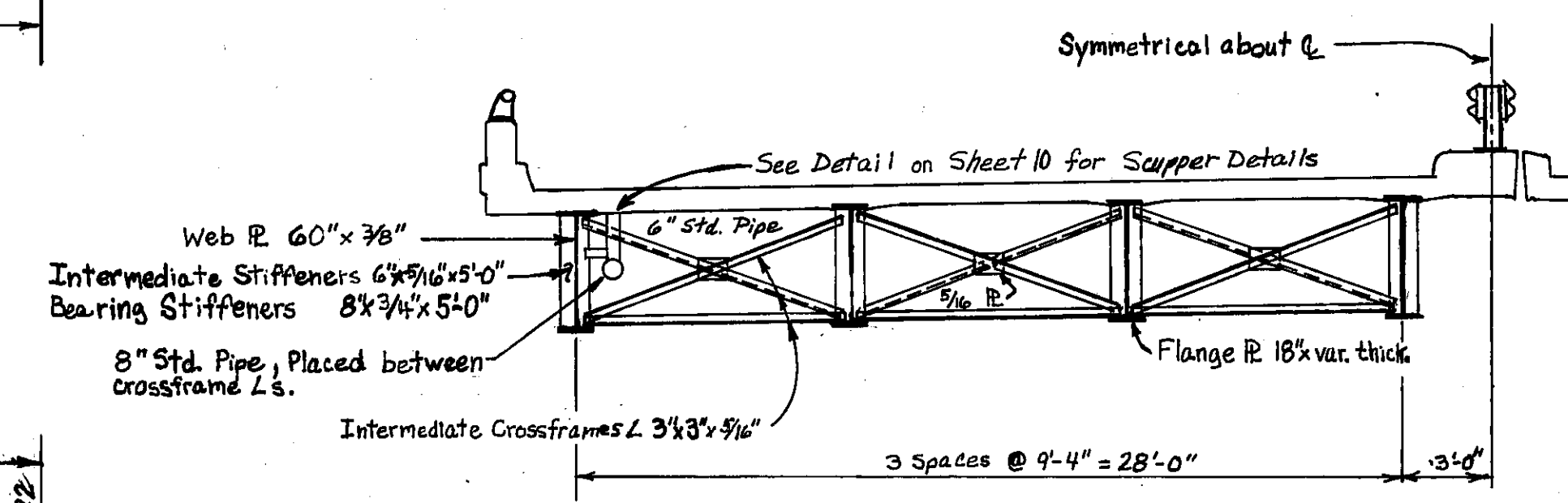
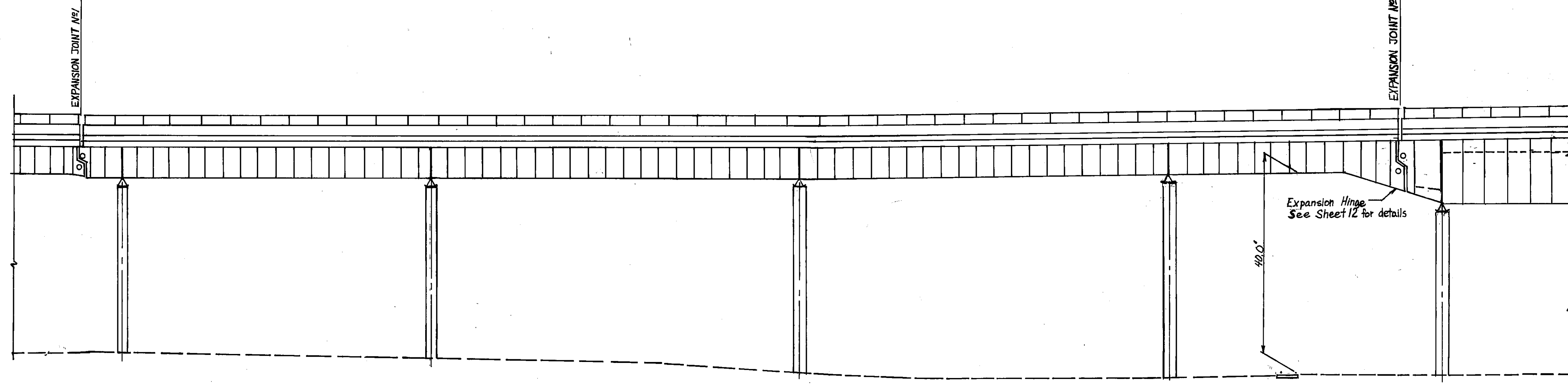


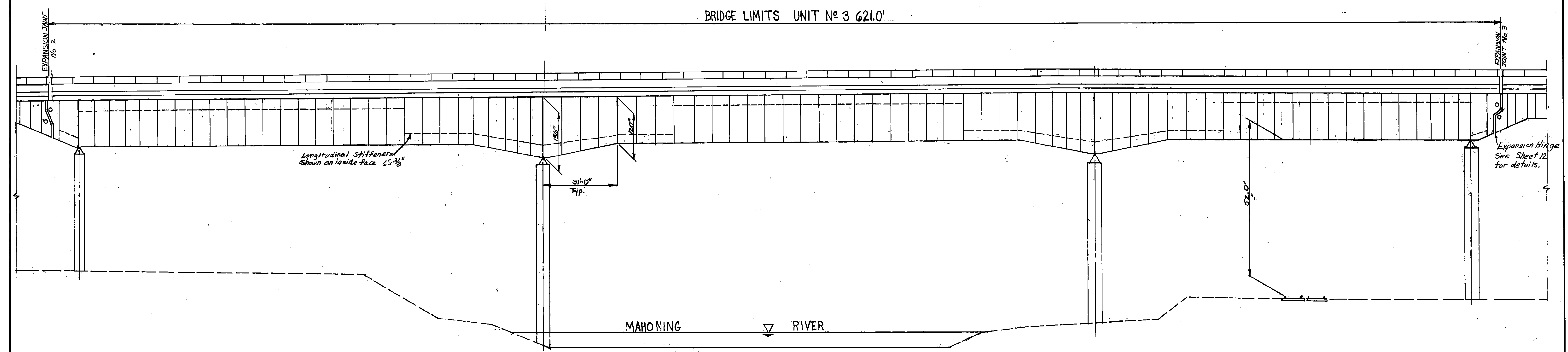
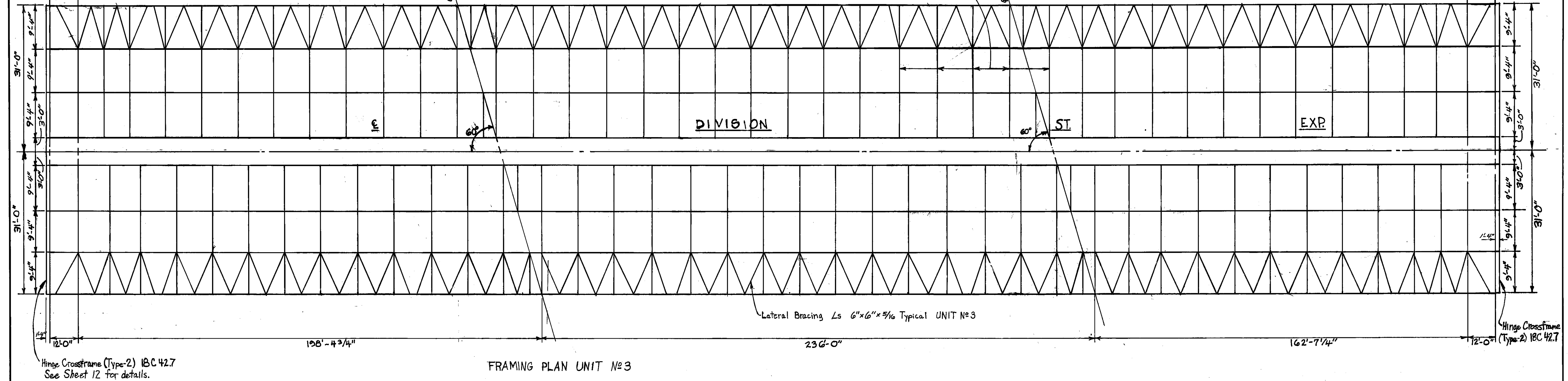
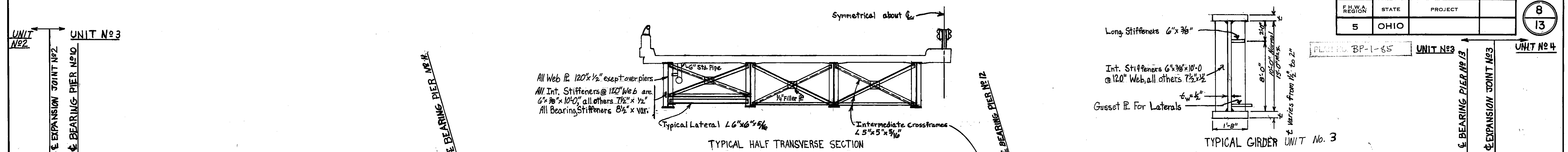
FRAMING PLAN UNIT No 2

BRIDGE LIMIT UNIT No 2 410.00'

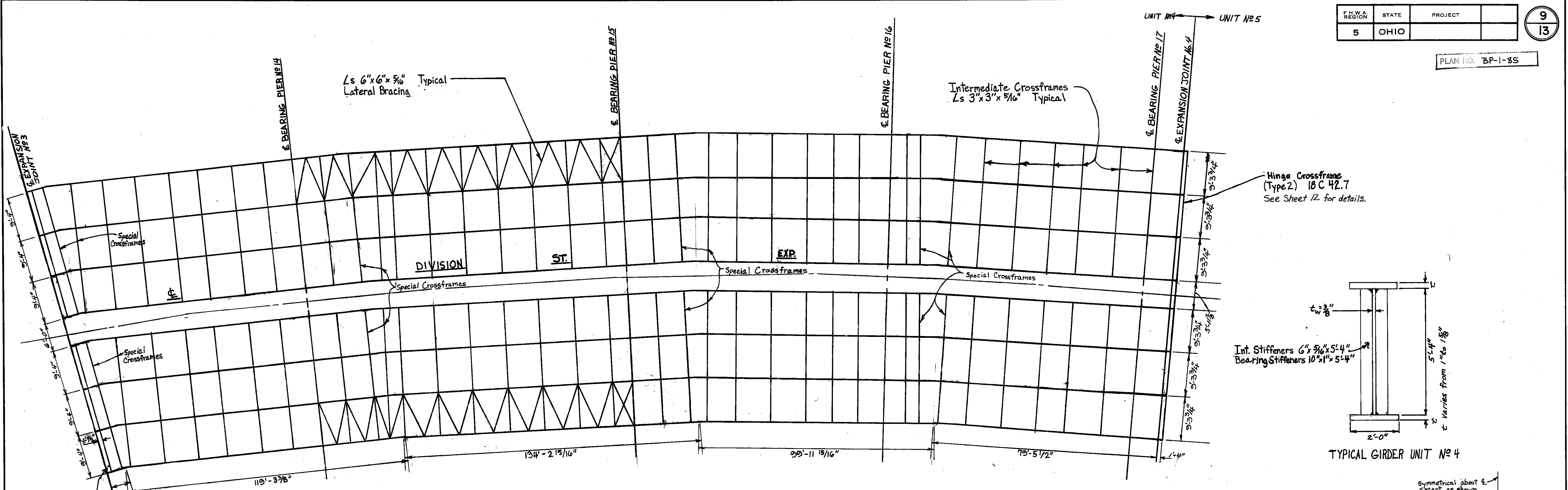
 Hinge Crossframe (Type-1)  
 L 4" x 4" x 3/16" See Sheet 12 for detail.


TYPICAL GIRDER UNIT No 2

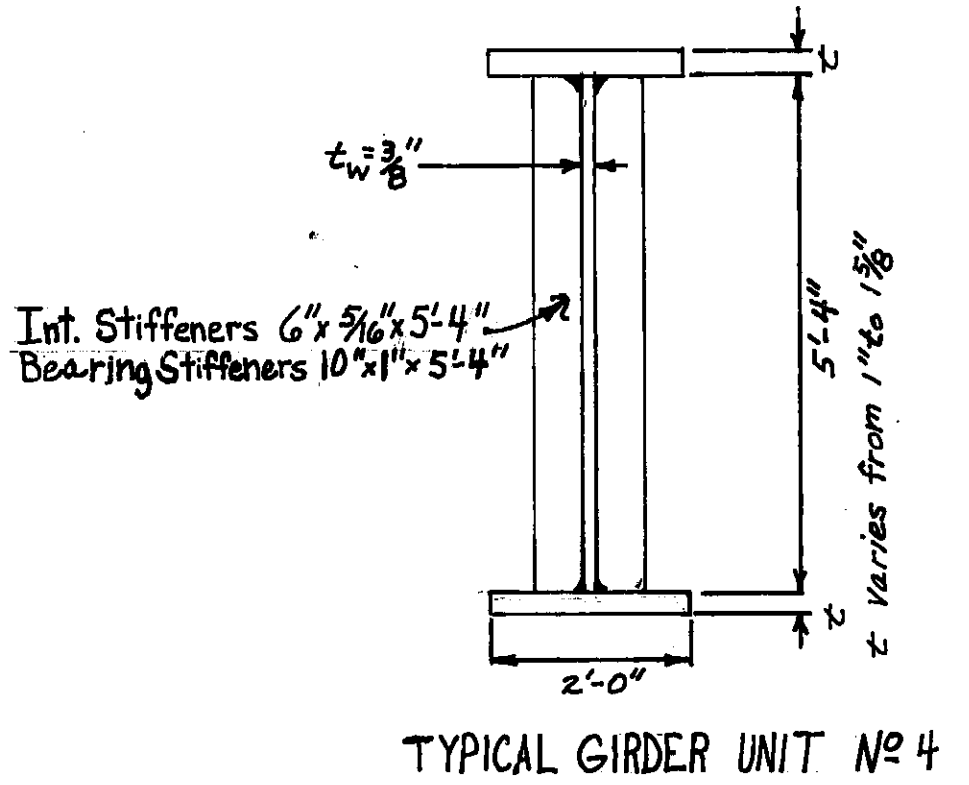

 TYPICAL HALF TRANSVERSE SECTION  
 UNIT No 2




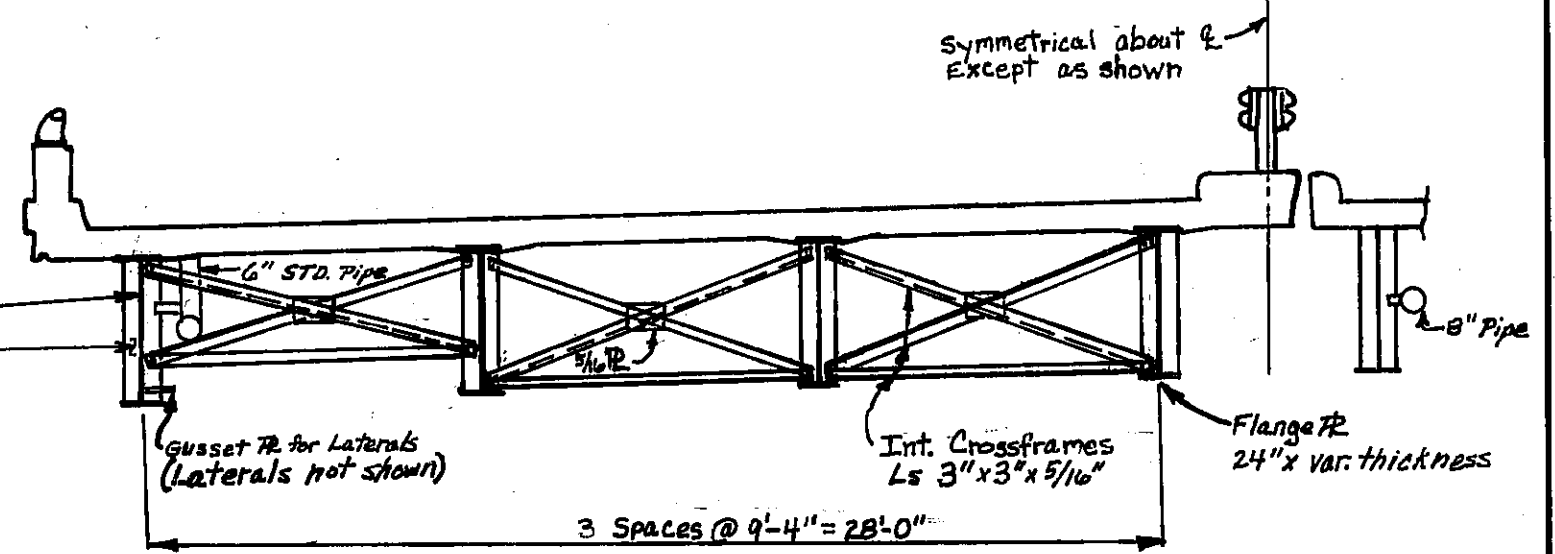




FRAMING PLAN UNIT No 4

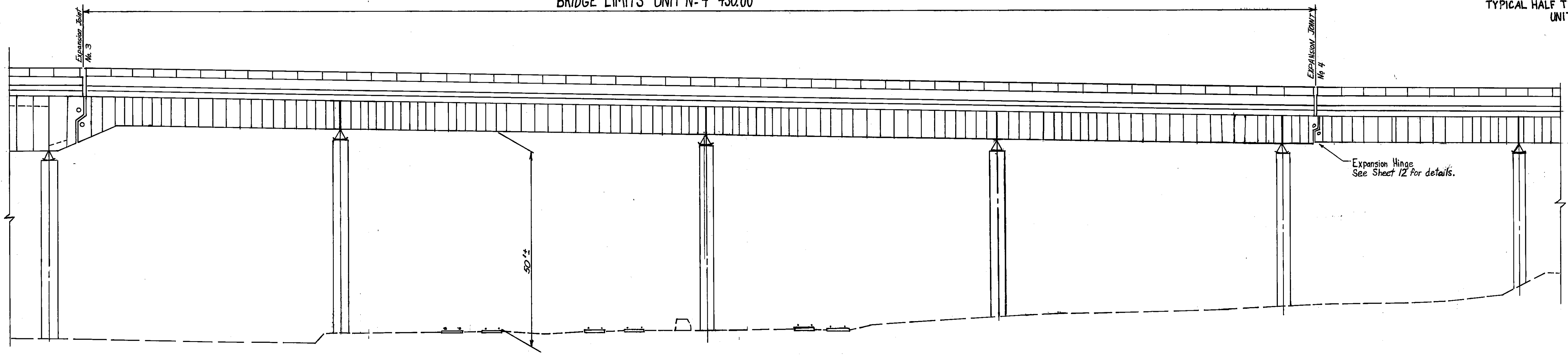


TYPICAL GIRDER UNIT No 4

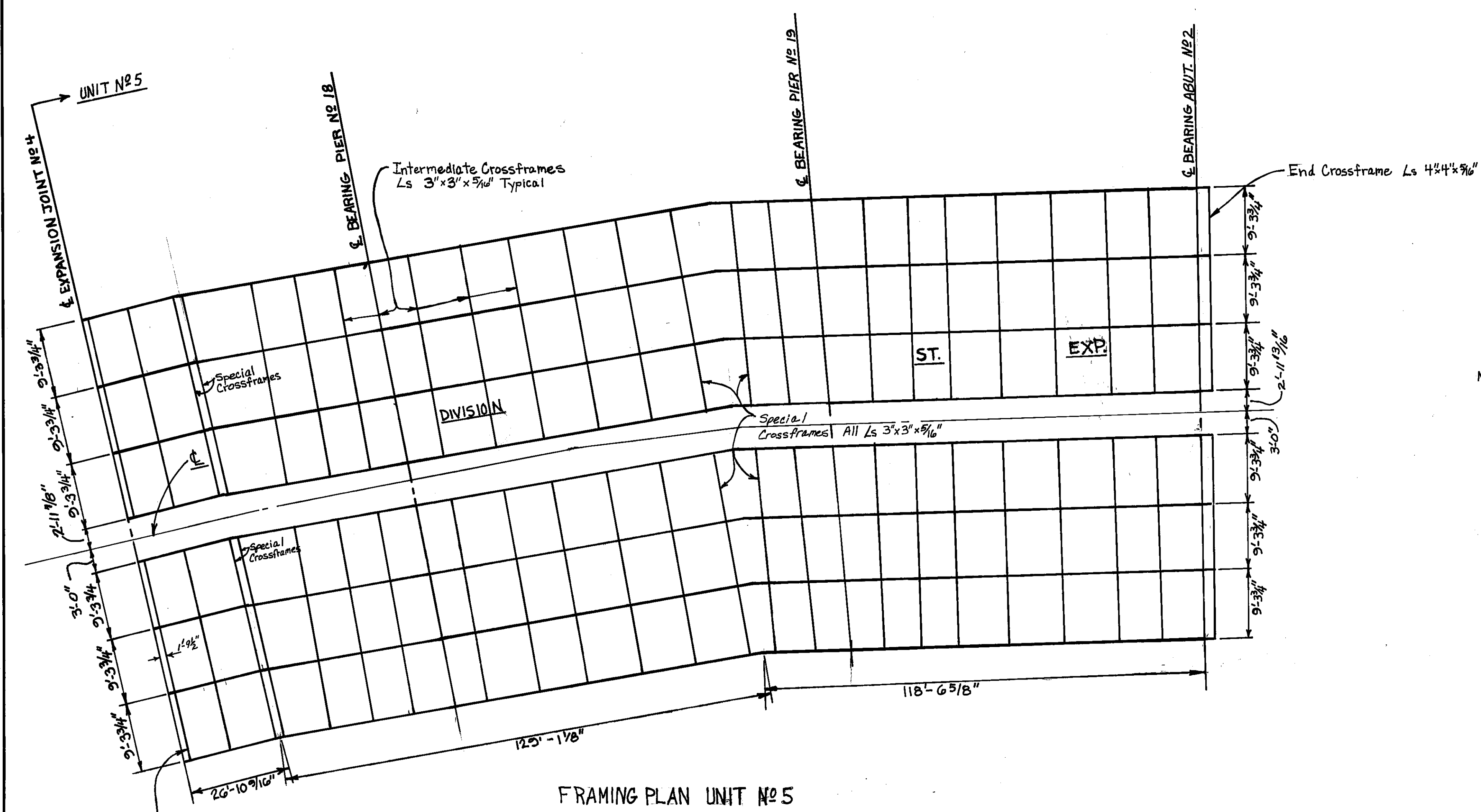


TYPICAL HALF TRANSVERSE SECTION UNIT No 4

BRIDGE LIMITS UNIT No 4 450.00'



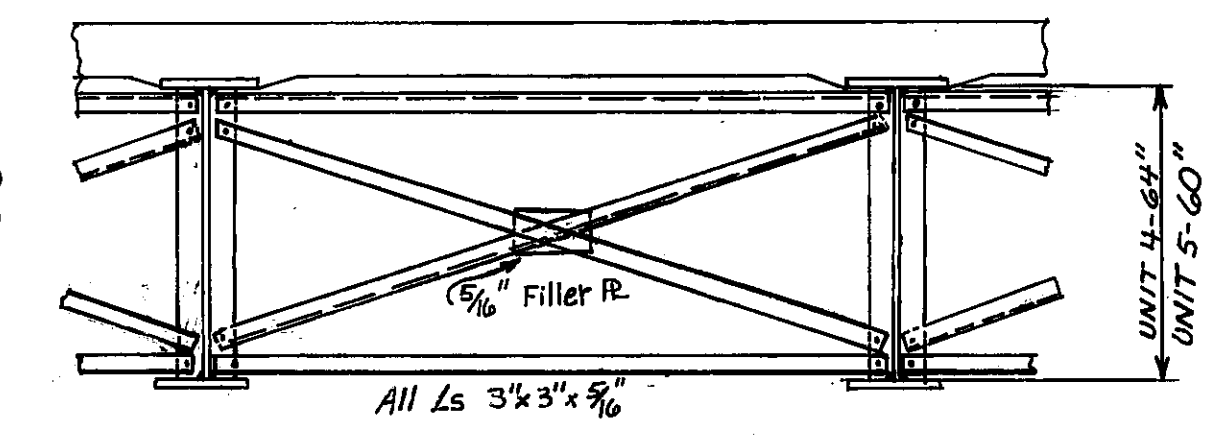




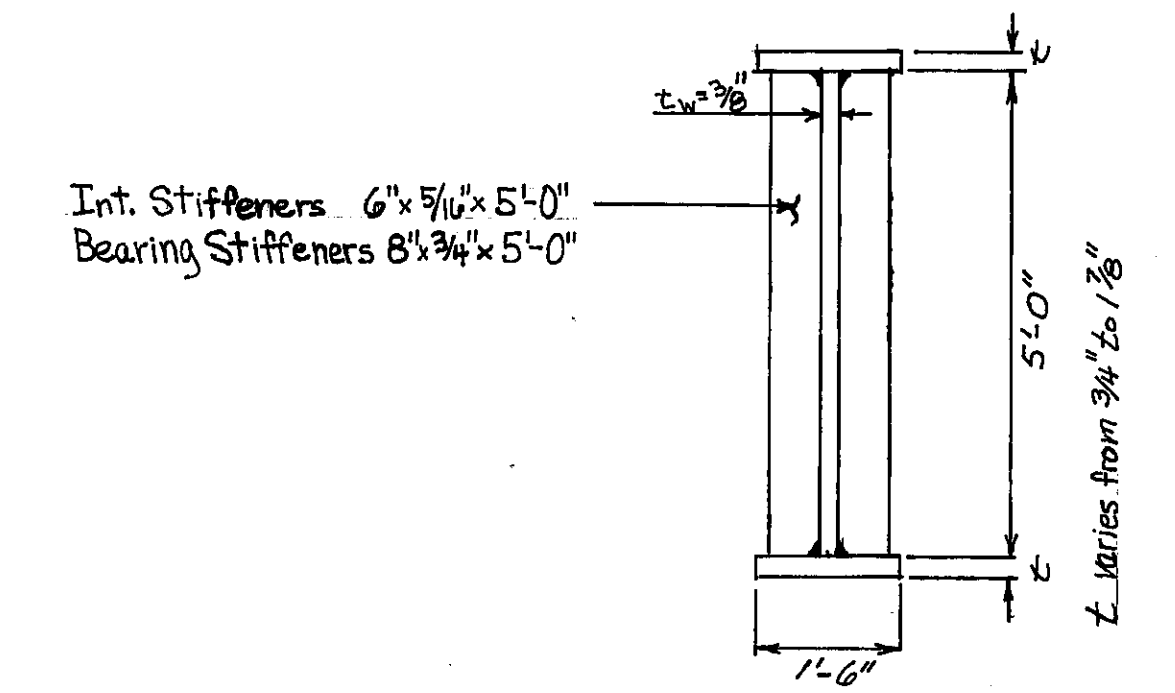
FRAMING PLAN UNIT No 5

Hinge Crossframes  
Ls 4'x4'x5/16" (Type 1)  
See Sheet 12 for detail.

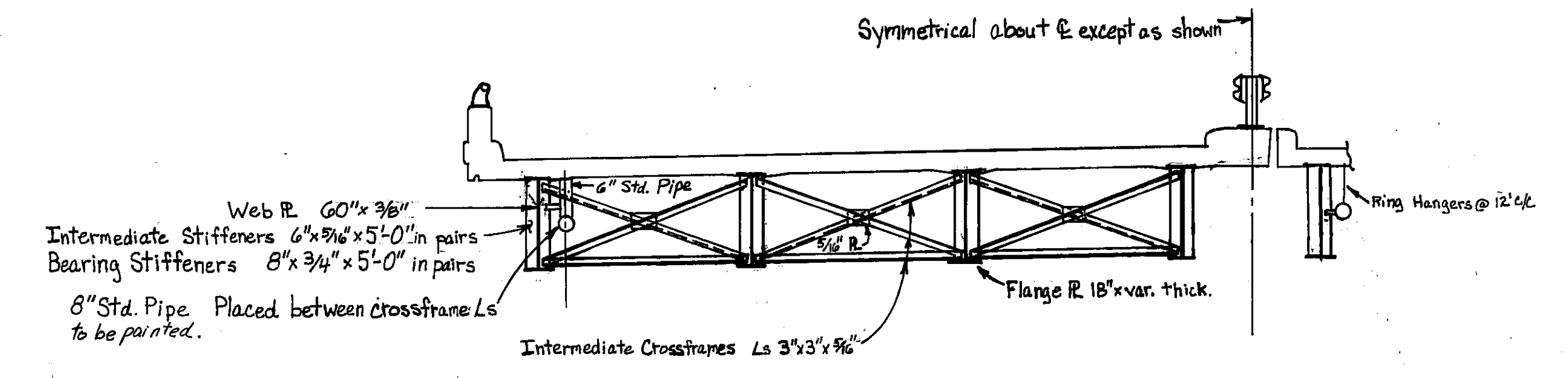
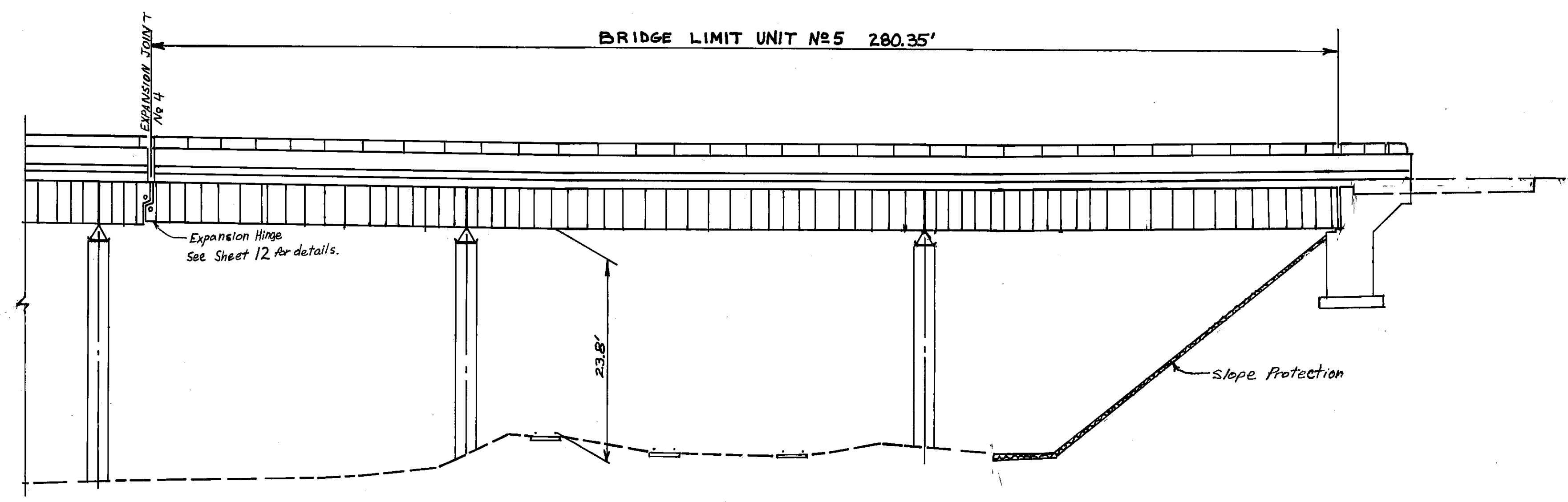
Number to be painted:  
UNIT No 4 = 48 (8 lines)  
UNIT No 5 = 24 (4 lines)



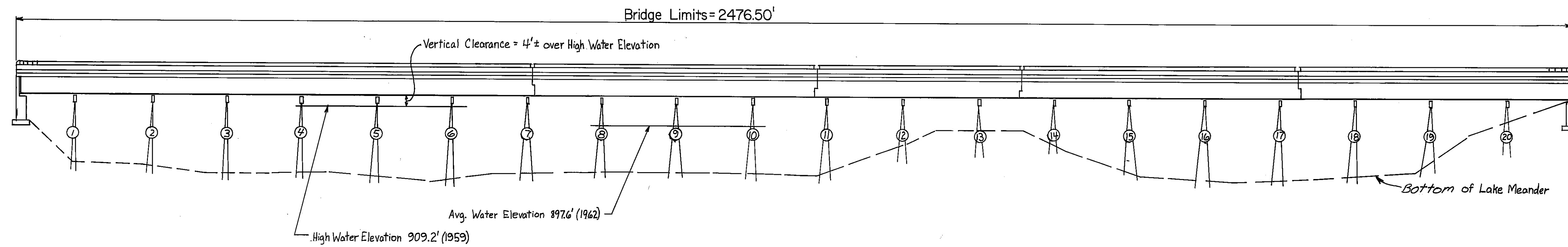
SPECIAL CROSSFRAME DETAIL



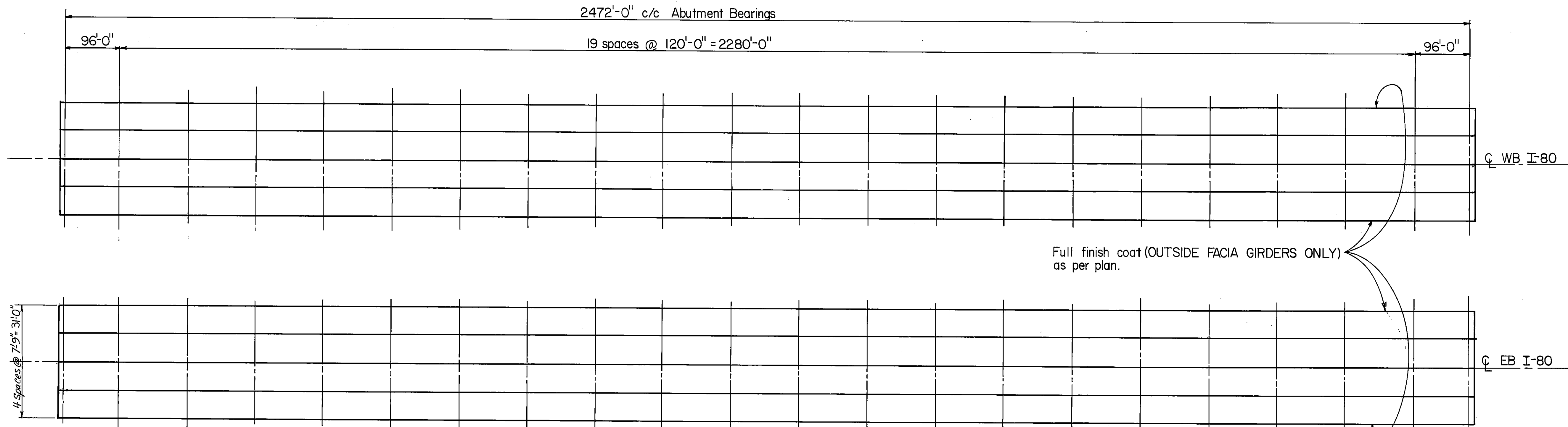
TYPICAL GIRDER UNIT No 5


 TYPICAL HALF TRANSVERSE SECTION  
UNIT No 5

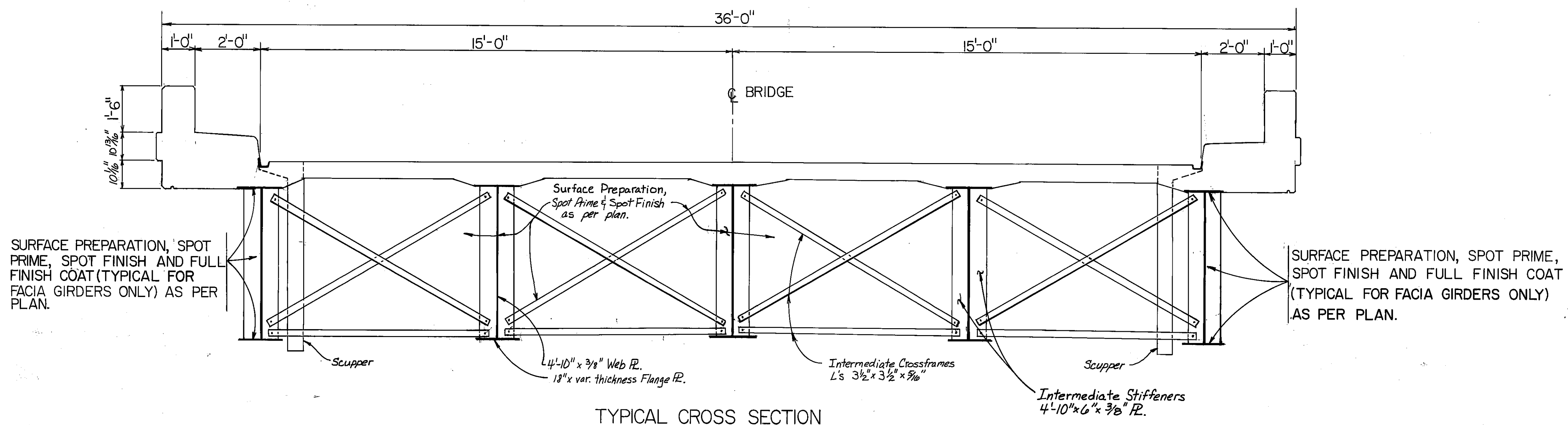




ELEVATION



FRAMING PLAN



TYPICAL CROSS SECTION

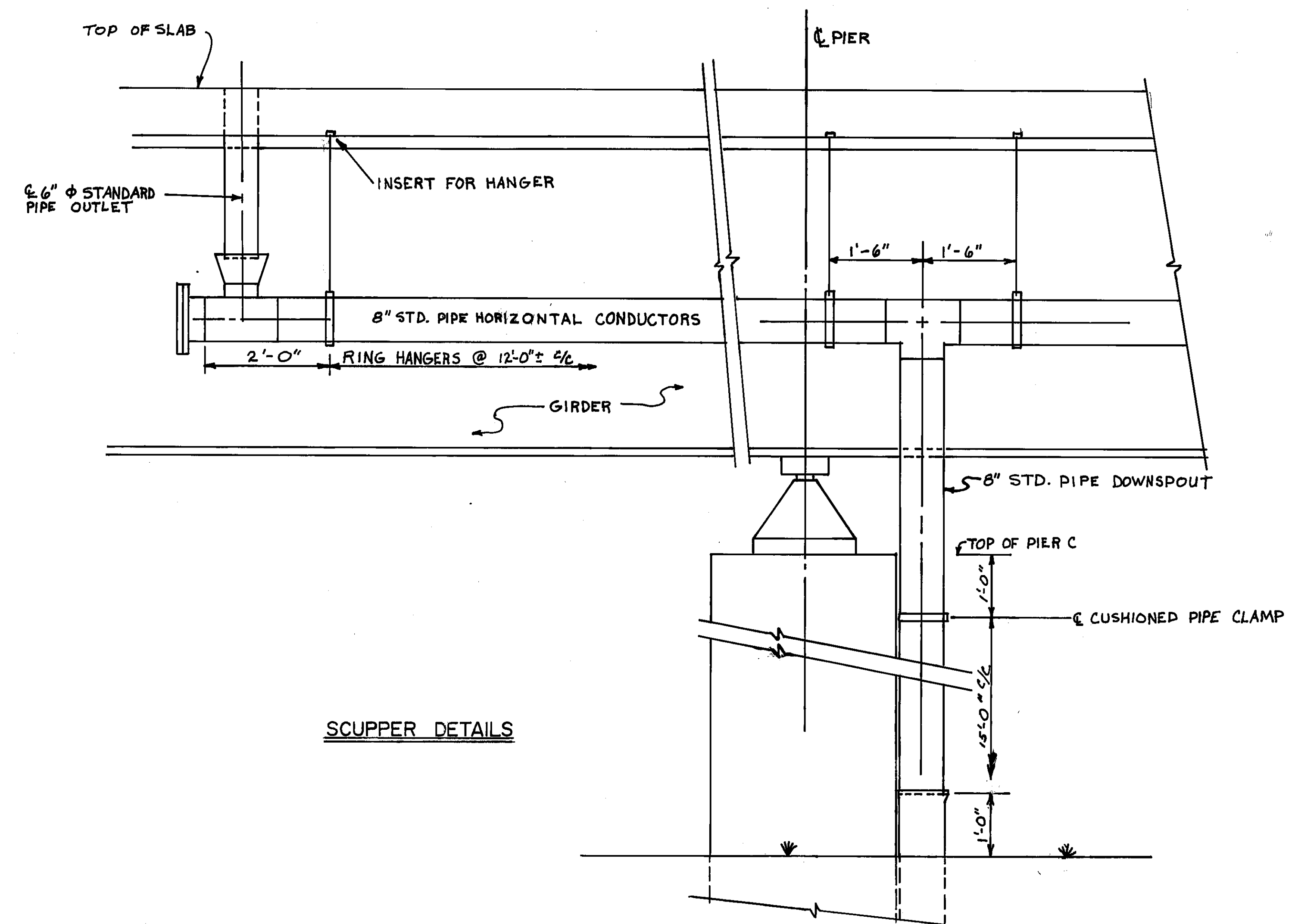
ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL LUMP		SURFACE PREPARATION AS PER PLAN
SPECIAL LUMP		SPOT PRIME AS PER PLAN
SPECIAL LUMP		SPOT FINISH AS PER PLAN
SPECIAL LUMP		FINISH COAT AS PER PLAN
SPECIAL LUMP		POLLUTION CONTROL AS PER PLAN
SPECIAL LUMP		BOAT FOR INSPECTION AS PER PLAN

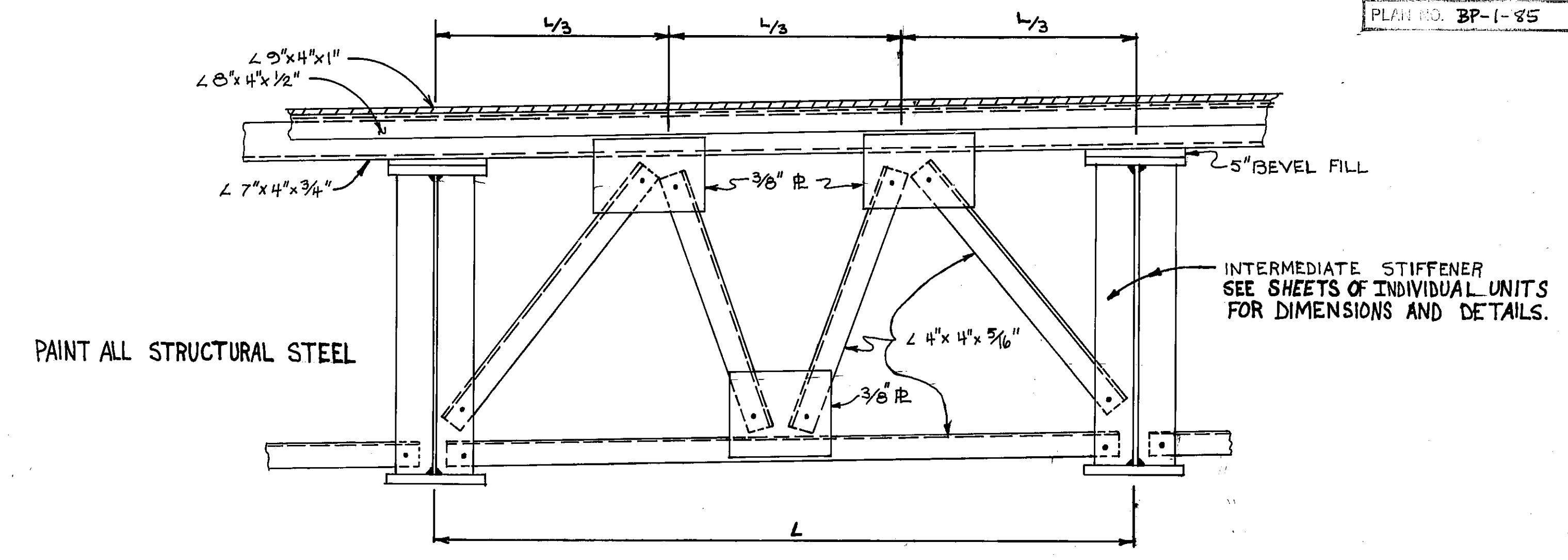
STRUCTURE DATA

COUNTY-ROUTE-SECTION	TYPE: Steel Girder
MAH-80-0125 L & R	LENGTH: 2476.50'
SFN:	WIDTH: 30'-0" curb/curb
NO. OF SPANS: 21 (each)	RAIL: Aluminum
OVER: MEANDER RESERVOIR	

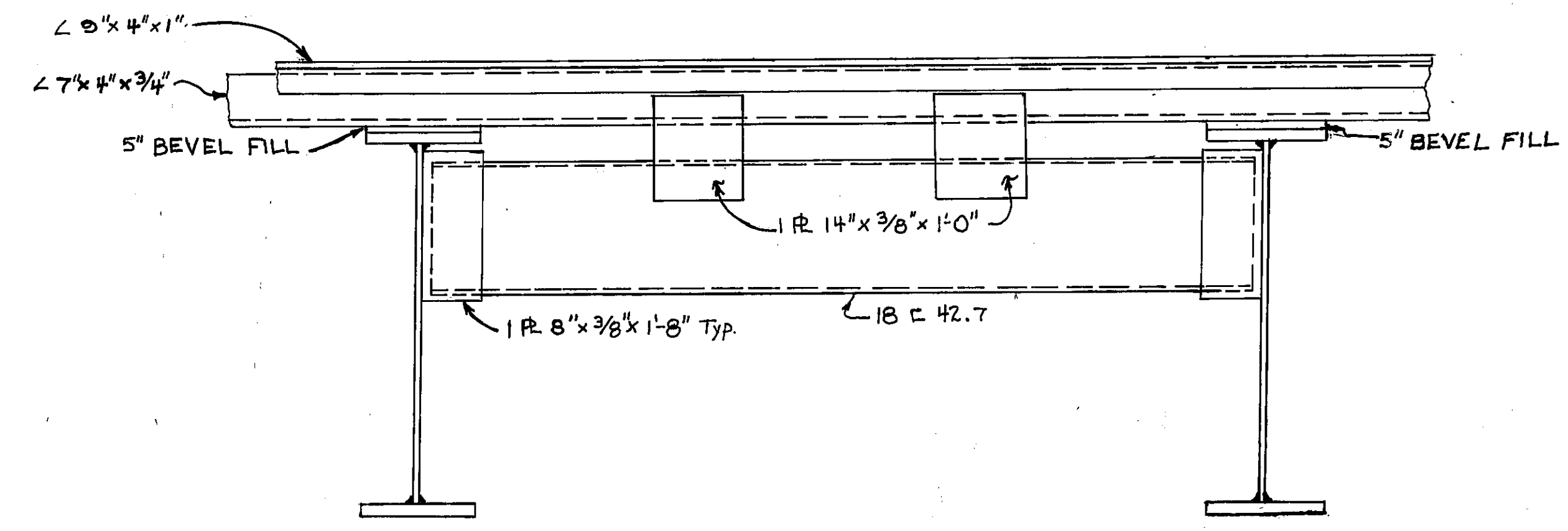




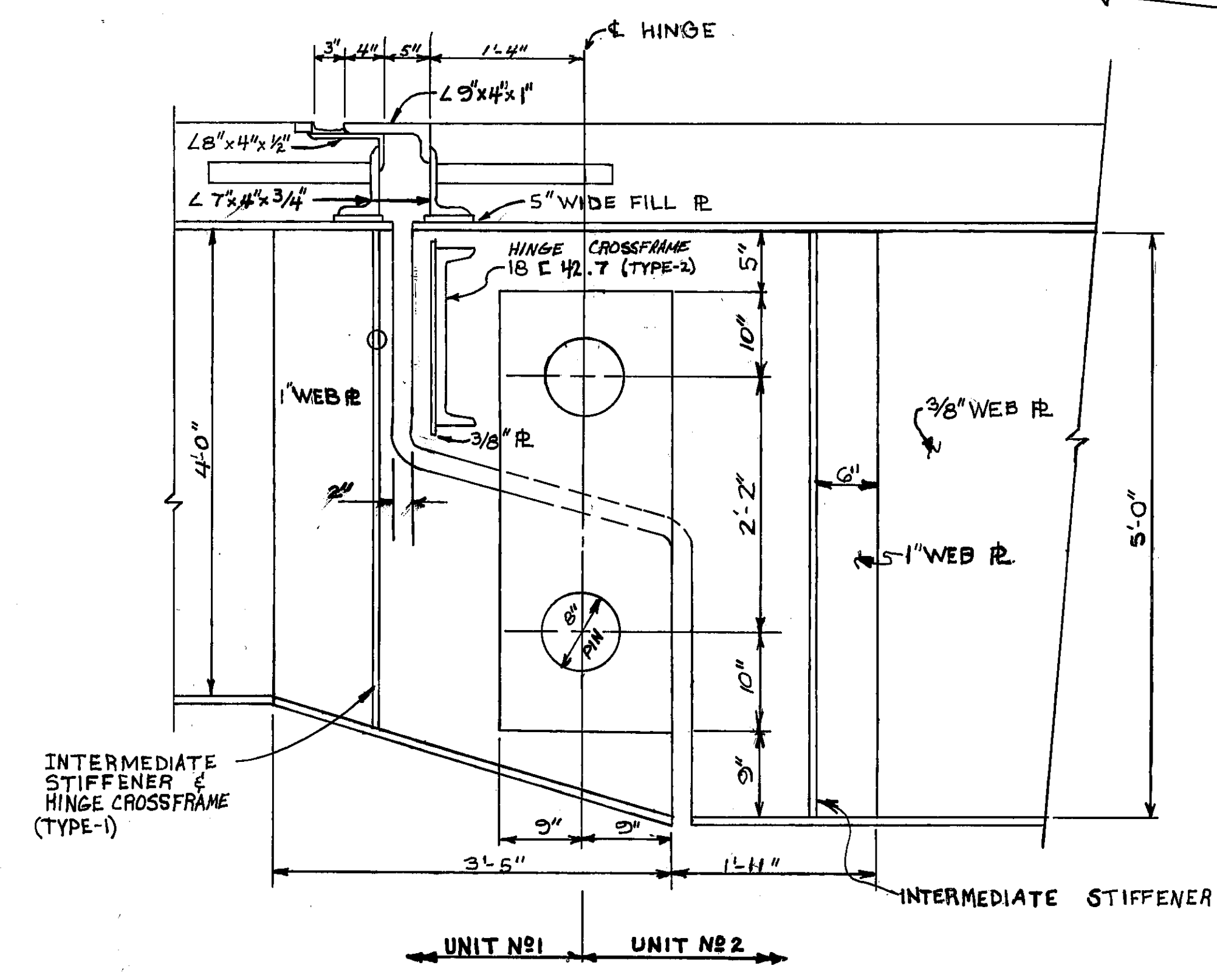
SCUPPER DETAILS



HINGE CROSSFRAME (TYPE-1)



HINGE CROSSFRAME (TYPE-2)



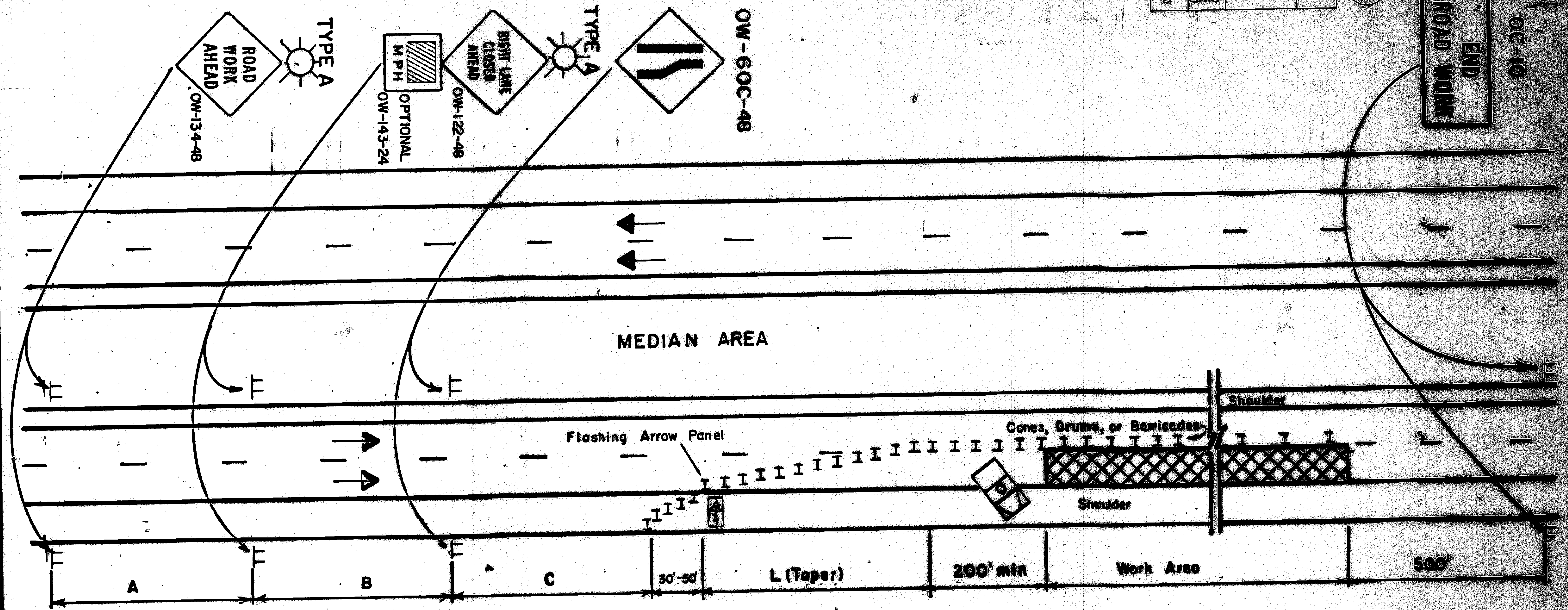
DETAILS - EXPANSION JOINT

Expansion Joint No. 1 shown, others similar

ALL STRUCTURAL STEEL TO BE BLASTED (100% SA 2 1/2) AND PAINTED AS PER PLAN.

MAH-711-0067  
MISCELLANEOUS DETAILS





**GENERAL NOTES:**

- The taper length (L) shall be in accordance with Section 7F-17 of the OMUTCD. The location of the transition taper and location of the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment. In order to determine the minimum number of channelizing devices for the transition taper see Table 7-5 OMUTCD. For a 55 MPH prevailing speed and a 12 ft. lane, not less than thirteen (13) cones, drums or barricades shall be used to form the lane transition taper in advance of the work area. Not less than five (5) cones, drums or barricades shall be used to form the taper on the shoulder. Cones, drums or barricades shall be spaced approximately 50' to 60' center to center for the first 1000 feet of the work area and at a maximum of 100 to 120 feet for the balance of the work area. Cones may be substituted for barricades or drums for short term lane closures. Cones shall be reflectorized, delineated or internally illuminated for short term night lane closures.
- The major standard level warning sign sizes may be used on divided streets or highways that are not classified as freeways or expressways.
- When work is being performed in the lane adjacent to the median on a divided highway an OW-123-48 sign(s) shall be substituted for the OW-122-48 sign(s) and an OW-600-48 sign(s) shall be substituted for the OW-600 sign(s).
- The work vehicle shown at the beginning of the work area shall be in place and unoccupied whenever workers are in the work area. This work vehicle shall be removed from the pavement whenever workers are not in the work area. Other protective devices may be used in lieu of the work vehicle shown when approved by the Engineer. The vehicle shall be equipped with a 360° rotating or flashing amber beacon clearly visible a minimum of a 1/2 mile.
- The flashing arrow panel shall meet requirements contained in Section 7G-6, OMUTCD.
- Type C steady burning barricade warning lights shall be erected on drums or barricades for night lane closures. The maximum spacing shall be identical to the channelizing device spacing requirements described in Note 1.
- Type A flashing barricade warning lights shown on the "Road Work Ahead" and the "Right Lane Closed Ahead" signs are required whenever a night lane closure is necessary.
- Some work area locations may require more than just static or conventional signs to enhance communication with the driver. At these locations Portable Changeable Message Signs (PCMS) units are recommended. These devices should be located 2000 - 4000 FEET in advance of a lane closure or other point of required action. See Section 7G-6.1, OMUTCD for further guidance on use of PCMS units.

MINIMUM DISTANCE	A	B	C
MAJOR STANDARD	500'	500'	500'
URBAN FREEWAY & EXPRESSWAY	500' TO 1000'	500' TO 1000'	500' TO 1000'
RURAL FREEWAY & EXPRESSWAY	2000'	1600'	1000'

OHIO DEPARTMENT OF TRANSPORTATION	
CLOSING ONE LANE OF A FOUR LANE DIVIDED HIGHWAY	
DATE	PAGE