

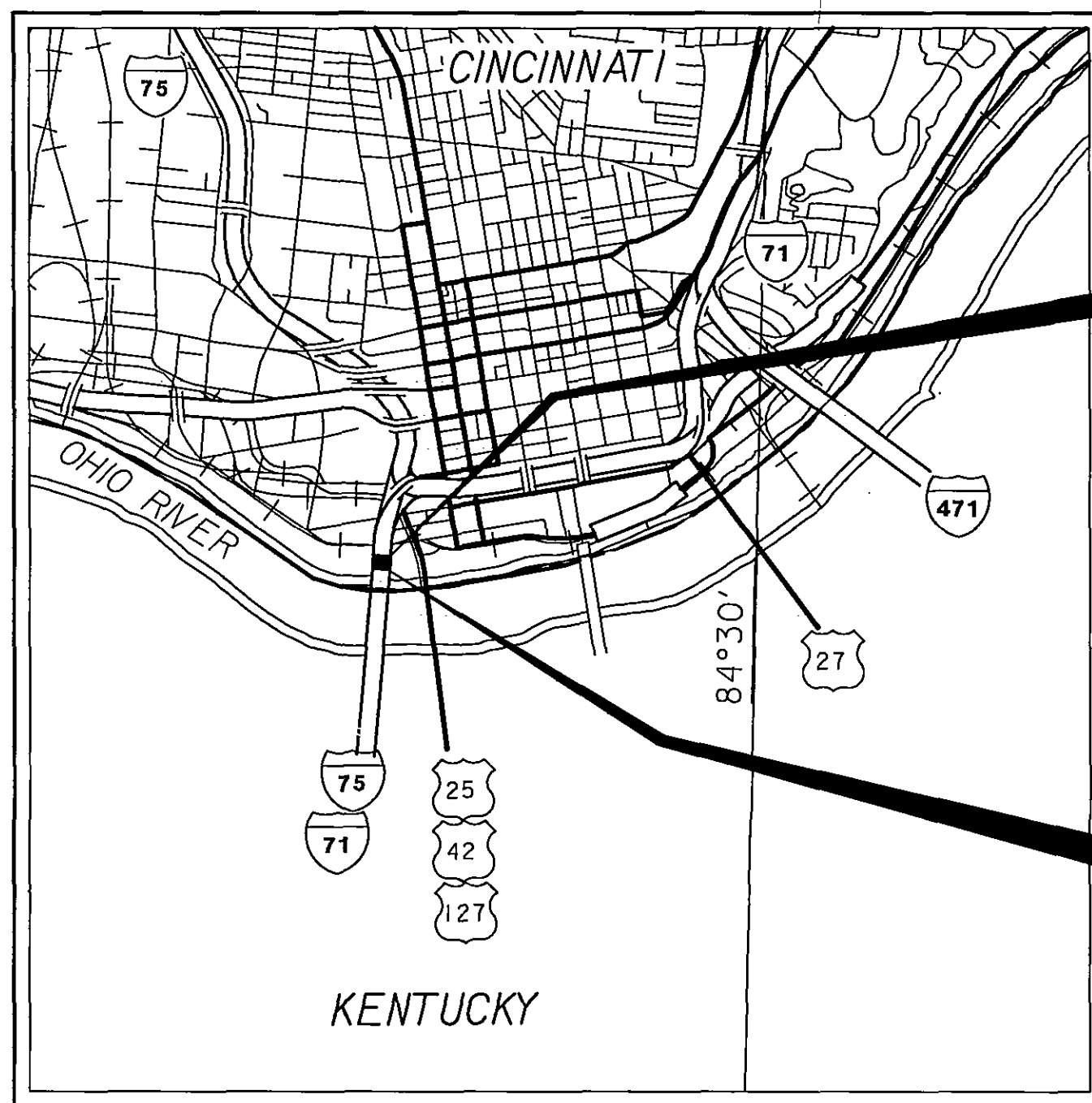
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

HAM-71-0.00

CITY OF CINCINNATI HAMILTON COUNTY

PROJECT DESCRIPTION

REHABILITATION OF BRIDGE NO. HAM-71-0000 L/R BY REPAIRING EXPANSION JOINTS, REPLACING CROSS FRAMES, REPLACING BRIDGE DRAINAGE INLET GRATES, CLEANING OUT EXISTING BRIDGE DRAINAGE SYSTEM, INSTALLING DRAINAGE SYSTEM CLEANOUTS, REFURBISHING BEARINGS, SEALING CONCRETE PIERS, AND PAINTING STRUCTURAL STEEL.



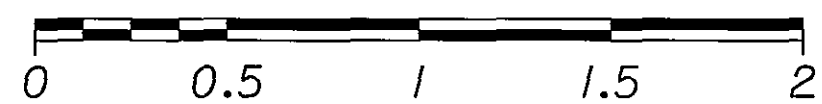
END PROJECT
STA 12+00.00

BEGIN PROJECT
STA 4+00.00

LOCATION MAP

LATITUDE: N 39°05'40" LONGITUDE: W 84°31'21"

SCALE IN MILES



- PORTION TO BE IMPROVED:
- INTERSTATE & DIVIDED HIGHWAY:
- UNDIVIDED STATE & FEDERAL ROUTES:
- OTHER ROADS:

INDEX OF SHEETS:

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2002 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL, SHALL GOVERN THIS IMPROVEMENT.

HAM-71-0.00
045035 PID 77539
DIST 08 09/08/04

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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

PLAN PREPARED BY:
GANNETT FLEMING
SUITE 350
4151 EXECUTIVE PARKWAY
WESTERVILLE, OHIO 43081



ENGINEERS SEAL:



SIGNED: Matthew J. O'Donnell
DATE: 5/03/04

| STANDARD CONSTRUCTION DRAWINGS | | | SUPPLEMENTAL SPECIFICATIONS | |
|--------------------------------|--|--|-----------------------------|---------|
| | | | 864 | 7-11-00 |
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SPECIAL PROVISIONS

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED:
DATE: 5/4/04 DISTRICT DEPUTY DIRECTOR

APPROVED:
DATE: 5-25-04 DIRECTOR, DEPARTMENT OF TRANSPORTATION

| | |
|--------------------------|-------------|
| FEDERAL PROJECT NO. | NON-FEDERAL |
| CONSTRUCTION PROJECT NO. | 77539 |
| RAILROAD INVOLVEMENT | NONE |
| FEDERAL PROJECT NO. | HAM-71-0.00 |
| 1 | 10 |

REFERENCE:

REFERENCE SHALL BE MADE TO ORIGINAL CONSTRUCTION DRAWINGS:
HAM-25-0.04 REVISED 01-18-62

AND TO SUPPLEMENTAL SPECIFICATIONS:
864 DATED 07-11-00

PROPOSED WORK:

HAM-71-0000L

- 1) REMOVE DEBRIS FROM INLETS, FROM STA. 4+00 TO STA. 12+00.
- 2) REPLACE INLET GRATES WITH BOLT DOWN TYPE CALLED FOR IN PLANS.
- 3) SEAL DECK JOINTS AT PIERS 4, 8, AND 12.
- 4) CLEAN OUT THE EXISTING DRAINAGE SYSTEM (PIPES) AS CALLED FOR IN THE PLANS.
- 5) CLEAN OUT BELOW GROUND PORTIONS OF DRAINAGE SYSTEM TO NEAREST OUTLET STRUCTURE.

HAM-71-0000R

- 6) REPLACE END CROSS FRAME MEMBERS IN KIND AT LOCATIONS CALLED FOR IN PLANS.
- 7) BLAST CLEAN AND PAINT ALL STRUCTURAL STEEL AND BEARINGS WITH SYSTEM OZEU WITHIN THE LIMITS SHOWN ON THE PLANS.
- 8) REMOVE LOOSE CONCRETE FROM PIERS 4 AND 8.
- 9) BLAST CLEAN PIERS 4 AND 8.
- 10) SEAL ALL SURFACES OF THE PIER CAPS AND 10 FT. OF COLUMNS OF PIERS 4 AND 8 WITH EPOXY URETHANE.
- 11) CLEAN OUT THE EXISTING DRAINAGE SYSTEM (PIPES) AS CALLED FOR IN THE PLANS.
- 12) CLEAN OUT BELOW GROUND PORTIONS OF DRAINAGE SYSTEM TO NEAREST OUTLET STRUCTURE.
- 13) REMOVE DEBRIS FROM INLETS FROM STA. 4+00 TO STA. 12+00.
- 14) REPLACE INLET GRATES WITH BOLT DOWN TYPE CALLED FOR IN PLANS.
- 15) INSTALL DRAINAGE CLEANOUTS AT LOCATIONS CALLED FOR IN PLANS.
- 16) SEAL DECK JOINTS AT PIERS 4, 8, AND 12.

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 CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID 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. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REFERENCE AT THE DISTRICT 8 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION.

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN:

THIS ITEM IS TO BE USED TO REPLACE CROSS FRAME MEMBERS IN KIND IN ACCORDANCE WITH DETAILS SHOWN IN THESE PLANS. WORK ITEMS SHALL INCLUDE THE DISASSEMBLY OF THE EXISTING CROSS FRAME MEMBERS, DISPOSAL OF REMOVED MEMBERS, HAND TOOL CLEANING (GRINDING) OF ANY AREAS TO BE WELDED, FABRICATION OF REPLACEMENT MEMBERS, PLACEMENT OF REPLACEMENT MEMBERS, AND ANY TEMPORARY SHIELDING THAT MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.04 OR SUPPLY THE ENGINEER WITH "AS-BUILT" DRAWINGS MEETING 513.04 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. IF NECESSARY, THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS, SUPPLY A COPY OF THE DRAWINGS, STAMPED AND DATED, ALONG WITH MICROFILM, TO THE STRUCTURAL, WELDING AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES.

THE FOLLOWING MEMBERS ARE INCLUDED IN THIS ITEM: END CROSSFRAMES AT PIERS 4 AND 8 OF BRIDGE NO. HAM-71-0000 R AS SHOWN IN THE PLANS.

PAYMENT SHALL BE MADE AT THE LUMP SUM PRICE BID FOR ITEM 513, STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN CONFORMANCE WITH THESE REQUIREMENTS, AND TO THE SATISFACTION OF THE ENGINEER.

ITEM 514 - FIELD PAINTING OF STRUCTURAL STEEL:

THESE ITEMS INCLUDE THE SURFACE PREPARATION AND PAINTING OF ALL EXISTING STRUCTURAL STEEL AND BEARINGS USING SYSTEM OZEU, WITHIN THE LIMITS SHOWN IN THESE PLANS. THE COLOR OF THE FINISH COAT SHALL CONFORM TO FEDERAL STANDARD NO. 595B-16440 (GRAY).

ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC., JOINT SEALING SYSTEM:

THIS ITEM SHALL BE USED TO SEAL THE EXPANSION JOINTS AT THE LOCATIONS SHOWN IN THESE PLANS. JOINTS SHALL BE SEALED AS PER THE MANUFACTURER'S REQUIREMENTS USING A TWO COMPONENT SYNTHETIC RUBBER JOINT SEALANT SYSTEM. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF THE FOLLOWING APPLICATORS, OR AN APPROVED EQUAL, WHO SHALL FURNISH AND INSTALL THE EXPANSION JOINT SEALER. PRIOR TO PLACEMENT OF JOINT SEALER, THE JOINT SHALL BE SANDBLASTED THEN BLOWN FREE OF ALL LOOSE MATERIAL. PAYMENT SHALL BE AT THE UNIT PRICE PER FOOT OF SEALED JOINT IN PLACE. SEE DETAIL THIS SHEET.

DOW CORNING 902 RCS

CMA SUPPLY COMPANY
9984 COMMERCE PARK DRIVE
CINCINNATI, OH 45246
TEL.: (513) 942-6663 OR (866) 826-6663

ITEM 518 - STRUCTURE DRAINAGE, MISC.: DRAINAGE SYSTEM MODIFICATION, AS PER PLAN:

THIS ITEM INCLUDES REPLACEMENT OF THE EXISTING INLET GRATES, INSTALLATION OF NEW PIPE CLEANOUTS, AND CLEAN OUT OF THE FOLLOWING: INLETS, DRAINAGE PIPES FROM THE INLET TO THE GROUND LINE, AND BELOW GROUND PORTIONS OF DRAINAGE SYSTEM TO THE NEAREST OUTLET STRUCTURE. SAID CLEAN OUT SHALL REMOVE ALL DEBRIS IN THE SYSTEM. ALL WORK AND MATERIALS SHALL CONFORM TO ITEM 518.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE WATER SUPPLY USED DURING THE CLEANING OPERATION AND SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF ANY DEBRIS COLLECTED DURING HIS OPERATIONS.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE LUMP SUM BID PRICE FOR ITEM 518-STRUCTURE DRAINAGE, MISC.: DRAINAGE SYSTEM MODIFICATION, AS PER PLAN, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN CONFORMANCE WITH THESE REQUIREMENTS, AND TO THE SATISFACTION OF THE ENGINEER.

ITEM SPECIAL - STRUCTURE, MISC.: PIER CAP LOOSE CONCRETE REMOVAL:

ALL DISINTEGRATED AND LOOSE CONCRETE SHALL BE REMOVED FROM THE PIER CAPS AND FIRST 10 FT OF COLUMNS UNDER THE PIER CAPS AT PIERS 4 AND 8 OF STRUCTURE HAM-71-000R. CARE SHALL BE TAKEN NOT TO REMOVE ANY SOUND CONCRETE DURING REMOVAL. REMOVAL AND DISPOSAL OF DEBRIS SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ITEM 202-PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN.

THIS WORK WILL BE PAID FOR AT THE LUMP SUM BID PRICE, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN CONFORMANCE WITH REQUIREMENTS, AND TO THE SATISFACTION OF THE ENGINEER.

ITEM 864 - SEALING OF CONCRETE SURFACES (EPOXY URETHANE), AS PER PLAN:

IN ADDITION TO THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION 864, THIS ITEM SHALL INCLUDE CLEANING OF THE CONCRETE SURFACES TO BE SEALED AS DESCRIBED BELOW. CLEAN AND SEAL CONCRETE SURFACES ON THE PIER CAPS AND FIRST 10 FT OF COLUMNS UNDER THE PIER CAPS AT PIERS 4 AND 8 OF STRUCTURE HAM-71-000OR. CLEANING SHALL PRECEDE APPLICATION OF THE SEALING COMPOUND BY NO MORE THAN 24 HOURS. CLEANING SHALL INCLUDE REMOVAL OF DEBRIS FROM BEAM SEATS, ABRASIVE BLAST CLEANING OF EXPOSED REINFORCEMENT, AND SURFACE PREPARATION OF CONCRETE SURFACES USING WATER OR SANDBLASTING AS PER 864.07. EPOXY URETHANE SHALL BE APPLIED TO ALL SURFACES ON THE PIER CAPS AND FIRST 10 FT OF COLUMNS UNDER THE CAPS. THE COLOR OF THE SEALER SHALL BE FEDERAL STANDARD NO. 595B-17778 (LIGHT NEUTRAL).

THIS WORK WILL BE PAID FOR AT THE UNIT PRICE BID PER SQUARE YARD, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN CONFORMANCE WITH THESE REQUIREMENTS, AND TO THE SATISFACTION OF THE ENGINEER.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:

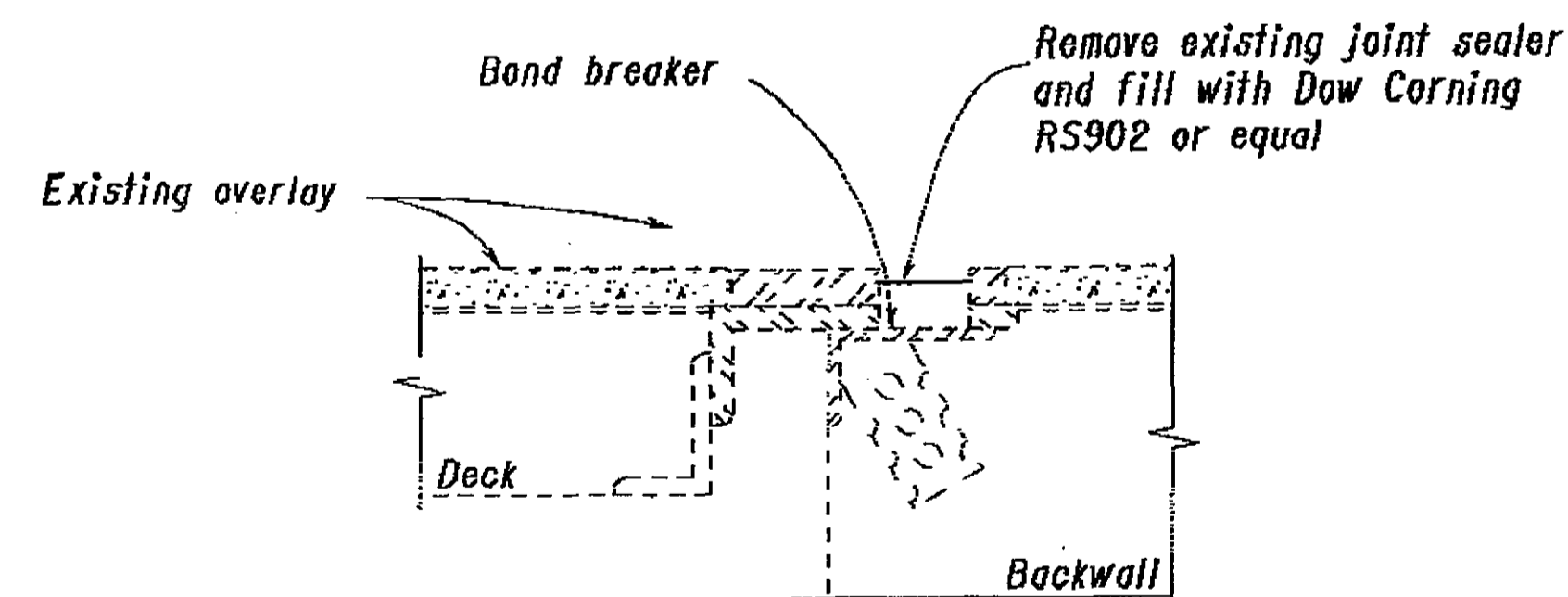
THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPERATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 15-POUND (7 KILOGRAM) CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

PROTECTION OF TRAFFIC: PRIOR TO DEMOLITION OF ANY PORTIONS OF THE EXISTING STRUCTURE, SUBMIT PLANS FOR THE PROTECTION OF TRAFFIC (VEHICULAR, PEDESTRIAN, BOAT, ETC.) ADJACENT TO AND/OR UNDER THE STRUCTURE TO THE DIRECTOR AT LEAST 14 DAYS BEFORE CONSTRUCTION BEGINS. THESE PLANS SHALL INCLUDE PROVISIONS FOR ANY DEVICES AND STRUCTURES THAT MAY BE NECESSARY TO INSURE SUCH PROTECTION. MAINTAIN THE TEMPORARY VERTICAL CLEARANCES SPECIFIED ON THE PLANS OR IN THE PROPOSAL AT ALL TIMES EXCEPT AS OTHERWISE APPROVED BY THE DIRECTOR. ALL COSTS ASSOCIATED WITH THIS TRAFFIC PROTECTION WILL BE INCLUDED WITH ITEM 202 FOR PAYMENT.

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 15 POUNDS (7 KILOGRAMS). DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH THE REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

CONSTRUCTION NOTIFICATION:

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF (14) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST ALSO PROVIDE NOTIFICATION (14) DAYS PRIOR TO ANY DETOURS, RAMP CLOSURES, LANE CLOSURES OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THE INFORMATION TO THE DISTRICT PUBLIC INFORMATION OFFICER BY FAX 513-932-7651 OR E-MAIL RON.MOSBY@DOT.STATE.OH.US. THE ODOT PUBLIC INFORMATION OFFICER WILL THEN PROVIDE WRITTEN NOTIFICATION TO THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS, AND BUSINESSES OF ANY UPCOMING PROJECT DETOURS AND/OR CLOSURES.



JOINT SEALING DETAIL
HAM-71-0000 L
HAM-71-0000 R

UTILITIES:

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

- ELECTRIC:** CENERGY
139 EAST 4TH STREET, ROOM 467A
CINCINNATI, OHIO 45202
PHONE 513-287-1043 (GEORGE NELTNER)
- GAS:** CENERGY
139 EAST 4TH STREET, ROOM 460A
CINCINNATI, OHIO 45202
PHONE 513-287-2728 (BILL ROTH)
- TELEPHONE:** CINCINNATI BELL TELEPHONE
201 EAST 4TH STREET
CINCINNATI, OHIO 45202
PHONE 513-565-7043 (KEITH GALEY)
- CABLE:** TIME WARNER CABLE
11252 CORNELL PARK DRIVE
CINCINNATI, OHIO 45242
PHONE 513-469-5483 (GARY NAPIER)
- WATER:** CINCINNATI WATER WORKS
4747 SPRING GROVE AVE.
CINCINNATI, OHIO 45232
PHONE 513-591-7862 (RUSS WEBER)
- FIBER OPTICS:** SPRINT
11815 HIGHWAY DRIVE
CINCINNATI, OHIO 45241
PHONE 513-769-1936 (JOE THOMAS)

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HAM-71-0.00

BRIDGE GENERAL NOTES
BRIDGE NO. HAM-71-0000 L/R
OVER MEHRING WAY AND PETE ROSE WAY

DESIGNED
JDO
CHECKED

DRAWN
JDO
REVISED

REVIEWED
STRUCTURE FILE NUMBER
3105946 (L)
3105970 (R)

DATE

DESIGN AGENCY
DISTRICT 8 PRODUCTION
BRIDGE OFFICE

ITEM 614-MAINTAINING TRAFFIC:

A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED DURING THE ALLOWABLE LANE CLOSURE PERIODS STIPULATED BELOW, BY THE USE OF EXISTING PAVEMENT AND BRIDGE DECK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THE PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL DEVISE A MAINTENANCE OF TRAFFIC SCHEME THAT SHALL BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER, AND PRESENT IT TO THE ENGINEER FOR APPROVAL. THE MAINTENANCE OF TRAFFIC SCHEME SHALL PRESENT, IN GENERAL, THE METHOD FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND EFFICIENT MANNER.

THE PLANS SHALL INCLUDE THE FOLLOWING COMPONENTS:

PLAN VIEW AT AN APPROPRIATE SCALE TO SHOW:

- WORK AREA
- BEGIN/END STATIONING OF TAPERS, TEMPORARY MARKINGS, ETC.
- TEMPORARY PAVEMENT
- LOCATION OF SIGNS (EXISTING OVERHEAD SIGNS AND ALL PROPOSED, COVERED, OR MODIFIED SIGNS)
- LOCATIONS OF TYPICAL SECTIONS
- REFERENCES TO APPLICABLE STANDARD DRAWINGS
- TYPICAL SECTIONS SHOWING:
 - LANE WIDTHS, PAVEMENT MARKINGS, DRUMS, PCB, ETC.
 - LIMITING STATIONS
 - WORK AREA AND DROP-OFFS
 - SIGN DETAILS FOR PROPOSED SIGNS AND OVERLAYS/MODIFICATIONS

THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION, THE REFERENCED STANDARD CONSTRUCTION DRAWINGS INCLUDING DESIGNER NOTES, THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), POLICY NO. 516-003(P) TRAFFIC MANAGEMENT IN WORK ZONES-INTERSTATE AND OTHER FREEWAYS, ODOT LOCATION AND DESIGN MANUAL, VOLUME 1, AND ALL REQUIREMENTS DETAILED IN THESE PLANS.

THE SUBMITTAL SHALL CONSIST OF THREE (3) COPIES OF THE PLANS FOR REVIEW AND DISTRIBUTION. NO WORK SHALL BEGIN AT THE PROJECT LOCATION UNTIL THE MAINTENANCE OF TRAFFIC PLANS HAVE BEEN APPROVED BY THE OHIO DEPARTMENT OF TRANSPORTATION.

A PROGRESS SCHEDULE WILL BE REQUIRED AS PART OF THE SUBMITTAL AND APPROVAL OF THE MAINTENANCE OF TRAFFIC PLANS. THIS SCHEDULE OF OPERATIONS SHALL DETAIL THE CONTRACTOR'S WORK ACTIVITIES AND HIS METHODS OF MAINTAINING TRAFFIC DURING THESE ACTIVITIES. MAINTENANCE OF TRAFFIC PLANS SHALL BE PREPARED AND SUBMITTED TO THE DISTRICT FOR APPROVAL. THESE PLANS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE DISTRICT SHALL HAVE 14 CALENDAR DAYS TO REVIEW AND COMMENT ON THESE PLANS. THE CONTRACTOR SHALL NOT BEGIN ANY WORK REQUIRING TRAFFIC CONTROL UNTIL THE ENGINEER HAS GIVEN APPROVAL OF THE CONTRACTOR'S SEQUENCE OF OPERATIONS AND MAINTENANCE OF TRAFFIC PLANS.

THE MAINTENANCE OF TRAFFIC SCHEME SHALL TAKE INTO CONSIDERATION SNOW AND ICE OPERATIONS FROM DECEMBER 1 THROUGH MARCH 31. LANE SHIFTS, RESTRICTIONS, AND CLOSURES MAY NOT BE APPROVED IF THEY ADVERSELY AFFECT SNOW REMOVAL OPERATIONS.

IF, IN THE OPINION OF THE ENGINEER, THE CONTRACTOR FAILS TO COMPLY WITH THESE REQUIREMENTS AND THE PROVISIONS OF THE APPROVED MAINTENANCE OF TRAFFIC PLAN, THE ENGINEER SHALL SUSPEND WORK UNTIL ALL REQUIREMENTS ARE MET. ANY COSTS OR DELAYS INCURRED AS A RESULT OF THE FAILURE SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

WORKSITE TRAFFIC SUPERVISOR:

THE CONTRACTOR SHALL EMPLOY (OTHER THAN THE SUPERINTENDENT), SUBJECT TO THE APPROVAL OF THE ENGINEER, A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS). THE WTS MUST BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS:

1. AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA), PHONE NUMBER 1-800-272-8772, CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS)
2. THE NATIONAL SAFETY COUNCIL, TRAFFIC CONTROL ZONES SUPERVISORS COURSE, PHONE NUMBER 1-800-441-5103.
3. NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL, PHONE NUMBER 1-703-235-0528.

THE WTS POSITION IS ESTABLISHED FOR THE PURPOSE OF MONITORING AND CORRECTING TRAFFIC CONTROL DEFICIENCIES IN THE WORK ZONE. THE WTS MUST ALSO COORDINATE WITH ALL LAW ENFORCING AGENCIES RESPONSIBLE FOR THE ROADWAY UNDER CONSTRUCTION AND RETRIEVE ALL CRASH REPORTS (OH-1) THAT OCCUR DURING THE CONSTRUCTION SEASON. THE WTS SHALL OVERSEE ALL OPERATIONS THAT AFFECT THE MOVEMENT OF VEHICULAR AND PEDESTRIAN TRAFFIC THROUGH THE WORK ZONE. TRAFFIC CONTROL AND CRASH DATA EVALUATION WILL BE THE WTS'S MAIN DUTY WHILE THE WORK ZONE IS IN PLACE.

THE WTS SHALL BE PRESENT WHEN THE CONTRACTOR OR SUBCONTRACTOR INSTALLS A TRAFFIC RESTRICTION, LANE CLOSURE, ETC. IN LIEU OF THE WTS BEING PRESENT WHEN A SUBCONTRACTOR HAS A WORK ZONE IN PLACE, THE SUBCONTRACTOR MAY USE HIS OWN PERSONNEL THAT IS A CERTIFIED WTS. THE CONTRACTOR OR SUBCONTRACTOR MUST PRESENT A COPY OF THE WTS CERTIFICATE TO THE PROJECT ENGINEER. A WTS MUST BE PRESENT WHEN THE WORK ZONE IS BEING SET UP.

DAILY, INCLUDING WEEKENDS AND HOLIDAYS, THE WTS SHALL SPEND A MINIMUM OF ONE HOUR REVIEWING THE WORK ZONE AND/OR CRASH DATA FOR DEFICIENCIES AND MAINTAINING THE WORK ZONE. THE WTS MUST RETRIEVE/COLLECT ALL CRASH REPORTS (OH-1) FROM ALL LAW ENFORCING AGENCIES, EVALUATE THE CRASHES, AND RECOMMEND SOLUTIONS TO ADDRESS ANY ISSUES THAT ARE POTENTIALLY CREATING CRASHES WITHIN THE WORK ZONE. THE WTS MUST PRESENT HIS SOLUTIONS TO THE ENGINEER AND THE DISTRICT WORK ZONE TRAFFIC MANAGER (DWZTM) FOR APPROVAL AT ALL PROJECT PROGRESS MEETINGS. UPON APPROVAL BY THE ENGINEER AND THE DWZTM, THE CONTRACTOR MUST IMPLEMENT THE RECOMMENDED SOLUTIONS TO THE WORK ZONES WITHIN ONE WEEK. THE REVIEW HOURS MAY BE ADJUSTED BY THE ENGINEER BUT MUST BE PERFORMED ONCE A DAY DURING THE CONSTRUCTION SEASONS. THE WTS MUST INSPECT THE WORK ZONE AT THE BEGINNING AND THE END OF EACH WORK DAY AND ONE TIME PER WEEK DURING THE HOURS OF DARKNESS.

A RECORD OF EACH DAY'S REVIEW SHALL BE GIVEN TO THE PROJECT ENGINEER THE FOLLOWING WORK DAY. ALSO IN WRITING, THE WTS REPORT SHALL INCLUDE: TRAFFIC CONTROL DEVICE CONDITION, PLACEMENT AND VISIBILITY, TRAFFIC FLOW CONDITIONS, INCIDENTS, ACCIDENTS, CONGESTION POINTS, ADEQUACY OF ADVANCED WARNING SIGNS BEYOND PROJECT LIMITS, INTERACTION OF WORK VEHICLES AND TRAFFIC, AND PROPER STORAGE OF MATERIALS AND EQUIPMENT.

IF THE RESTRICTIONS ARE SHORT TERM, THE WTS SHALL MONITOR THE ZONE FOR COMPLIANCE. DURING THE LANE CLOSURE HE SHALL MAKE SURE ALL TRAFFIC CONTROL ITEMS ARE FUNCTIONING PROPERLY. TRAFFIC CONTROL AND CRASH DATA EVALUATION WILL BE THE WTS'S MAIN DUTY DURING IMPLEMENTATION OF ZONES OR SHORT TERM ZONES. THE WTS SHALL HAVE THE AUTHORITY TO HAVE DEFICIENCIES CORRECTED AS SOON AS POSSIBLE. THE WTS SHALL PROVIDE THE DISTRICT WORK ZONE TRAFFIC CONTROL ENGINEER A SKETCH OF THE TRAFFIC CONTROL PLAN (TCP) EVERY DAY THERE IS TO BE A SHORT TERM TRAFFIC RESTRICTION, LANE CLOSURE, ETC. THIS TCP SHALL SHOW HOW THE WORK ZONES ARE TO BE IMPLEMENTED.

THE WTS SHALL BE AVAILABLE ON A 24-HOUR BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. A 24-HOUR PHONE NUMBER SHALL BE MADE AVAILABLE FOR THE PROJECT ENGINEER TO CONTACT THE WTS. THE WTS SHALL HAVE A PAGER AND THE PAGER PHONE NUMBER SHALL BE PROVIDED TO THE PROJECT ENGINEER.

FAILURE OF THE CONTRACTOR TO COMPLY WITH ANY OF THE ABOVE SHALL CONSTITUTE CAUSE FOR THE PROJECT ENGINEER TO DEDUCT \$500 PER DAY FROM MONEY DUE TO THE CONTRACTOR, NOT AS A PENALTY, BUT AS A LIQUIDATED DAMAGE.

PAYMENT FOR THE WTS SHALL BE INCLUDED UNDER THE LUMP SUM PRICE FOR ITEM 614-MAINTAINING TRAFFIC.

FLOODLIGHTING:

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614-MAINTAINING TRAFFIC.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR:

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH WORKING TOP-MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

LAW ENFORCEMENT OFFICERS (LEOs) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEOs ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH: CINCINNATI POLICE DEPARTMENT, 310 EZZARD CHARLES DRIVE, CINCINNATI, OH 45214 PH. 513-352-2514.

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR 200 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF CONTRACTORS WISH TO UTILIZE LEOs FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 - MAINTAINING TRAFFIC.

MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS):

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

- CHRISTMAS NEW YEARS MEMORIAL DAY
- FOURTH OF JULY LABOR DAY THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

| DAY OF THE WEEK | TIME ALL LANES MUST BE OPEN TO TRAFFIC |
|-----------------|---|
| SUNDAY | 12:00N FRIDAY THROUGH 9:00 PM MONDAY |
| MONDAY | 12:00N FRIDAY THROUGH 9:00 PM TUESDAY |
| TUESDAY | 12:00N MONDAY THROUGH 9:00 PM WEDNESDAY |
| WEDNESDAY | 12:00N TUESDAY THROUGH 9:00 PM THURSDAY |
| THURSDAY | 12:00N WEDNESDAY THROUGH 9:00 PM MONDAY |
| FRIDAY | 12:00N THURSDAY THROUGH 9:00 PM MONDAY |
| SATURDAY | 12:00N FRIDAY THROUGH 9:00 PM MONDAY |

NO LANE CLOSURES WILL BE PERMITTED ON I-71 AND I-75, NORTHBOUND AND SOUTHBOUND, FROM 2 HOURS BEFORE UNTIL 2 HOURS AFTER AN EVENT AT US BANK ARENA, GREAT AMERICAN BALLPARK, OR PAUL BROWN STADIUM.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN THE AMOUNT OF \$3000 PER EVERY 15 MINUTE INCREMENT BEYOND 12:00 NOON OR BEFORE 9:00 PM, AS STIPULATED ABOVE, THAT ALL LANES ARE NOT OPEN TO TRAFFIC.

MAINTAINING TRAFFIC (DAILY RESTRICTIONS-NON HOLIDAYS):

SINGLE LANE CLOSURES WILL BE PERMITTED FROM 9:00 P.M. UNTIL 5:00 A.M. SHOULD THE CONTRACTOR FAIL TO REOPEN ALL LANES BY 5:00 A.M., THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN THE AMOUNT OF \$2,000 PER EVERY 15 MINUTE INCREMENT BEYOND 5:00 A.M.

MULTIPLE LANE CLOSURES WILL BE PERMITTED FROM 11:00 P.M. UNTIL 5:00 A.M. SHOULD THE CONTRACTOR FAIL TO REOPEN ALL LANES BY 5:00 A.M., THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN THE AMOUNT OF \$3,000 PER EVERY 15 MINUTE INCREMENT BEYOND 5:00 A.M.

DESIGN AGENCY: GANNETT FLEMING ENGINEERS & ARCHITECTS, P.C. 4161 WESTWIND DR. OHIO 45240
 DATE: 04/04
 REVIEWED: MTO
 DRAWN: JTF
 DESIGNED: MD
 CHECKED: JRB
 MAINTENANCE OF TRAFFIC NOTES
 BRIDGE NO. HAM-71-0000 L/R
 OVER MEHRING WAY AND PETE ROSE WAY
 HAM-71-0.00
 3
 10

| ESTIMATED QUANTITIES | | | | | | | | | |
|---------------------------------|-----------|-------|-------|--|-------|-------|--------|------|--|
| ITEM | EXTENSION | TOTAL | UNIT | DESCRIPTION | ABUT. | PIERS | SUPER. | GEN. | |
| STRUCTURES OVER 20' SPAN | | | | | | | | | |
| 202 | 11201 | LUMP | | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN | | | | LUMP | |
| 513 | 10001 | LUMP | | STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN | | | 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 | | | LUMP | | |
| 514 | 00504 | 40 | MN HR | GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL | | | 40 | | |
| 514 | 10000 | 2 | EACH | FINAL INSPECTION REPAIR | | | 2 | | |
| 516 | 14600 | 295 | FT | STRUCTURAL JOINT OR JOINT SEALER, MISC.: JOINT SEALING SYSTEM | | | 295 | | |
| 518 | 63300 | LUMP | | STRUCTURE DRAINAGE, MISC.: DRAINAGE SYSTEM MODIFICATION, AS PER PLAN | | | LUMP | | |
| 864 | 10101 | 430 | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN | | 430 | | | |
| SPECIAL | 53000200 | LUMP | | STRUCTURE, MISC.: PIER CAP LOOSE CONCRETE REMOVAL | | LUMP | | | |
| MAINTENANCE OF TRAFFIC | | | | | | | | | |
| 614 | 11100 | 200 | HOUR | LAW ENFORCEMENT OFFICER WITH PATROL CAR | | | | 200 | |
| 614 | 11000 | LUMP | | MAINTAINING TRAFFIC | | | | LUMP | |
| 624 | 10000 | LUMP | | MOBILIZATION | | | | LUMP | |

DESIGN AGENCY
 GANNETT FLEMING
 ENGINEERS & ARCHITECTS, P.C.
 4151 WESTVILLE ROAD, SUITE 400
 WESTVILLE, OHIO 43081

DATE 04/04
 REVIEWED MTO
 STRUCTURE FILE NUMBER 3105546 (L)
 3105570 (R)

DRAWN JTF
 CHECKED BSG/JRB
 REVISIONS MD

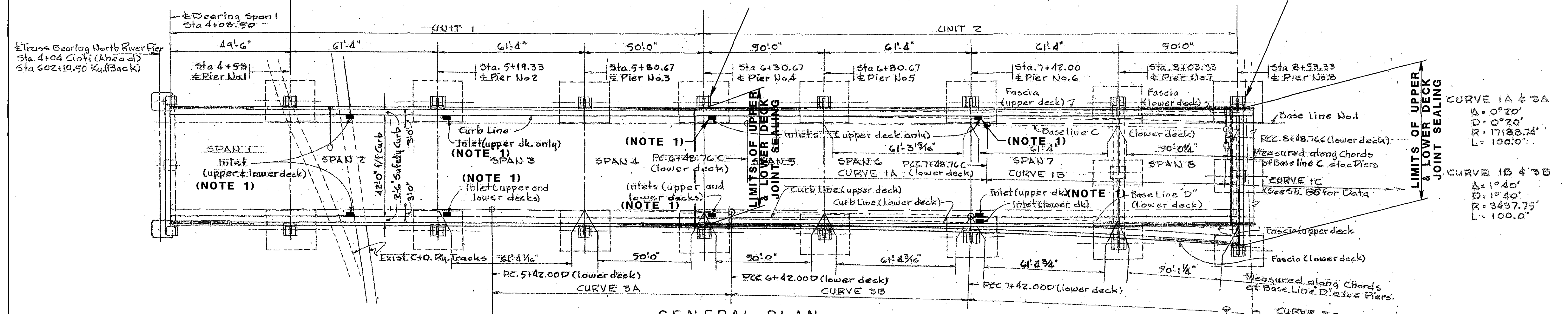
ESTIMATED QUANTITIES
 BRIDGE NO. HAM-71-0000 L/R
 OVER MEHRING WAY AND PETE ROSE WAY

HAM-71-0.00

REMOVE LOOSE CONCRETE AND
 APPLY EPOXY-URETHANE SEALER
 TO PIER CAP AND COLUMNS
 (RIGHT BRIDGE ONLY)

REMOVE LOOSE CONCRETE AND
 APPLY EPOXY-URETHANE SEALER
 TO PIER CAP AND COLUMNS
 (RIGHT BRIDGE ONLY)

LIMITS OF DRAINAGE SYSTEM MODIFICATION

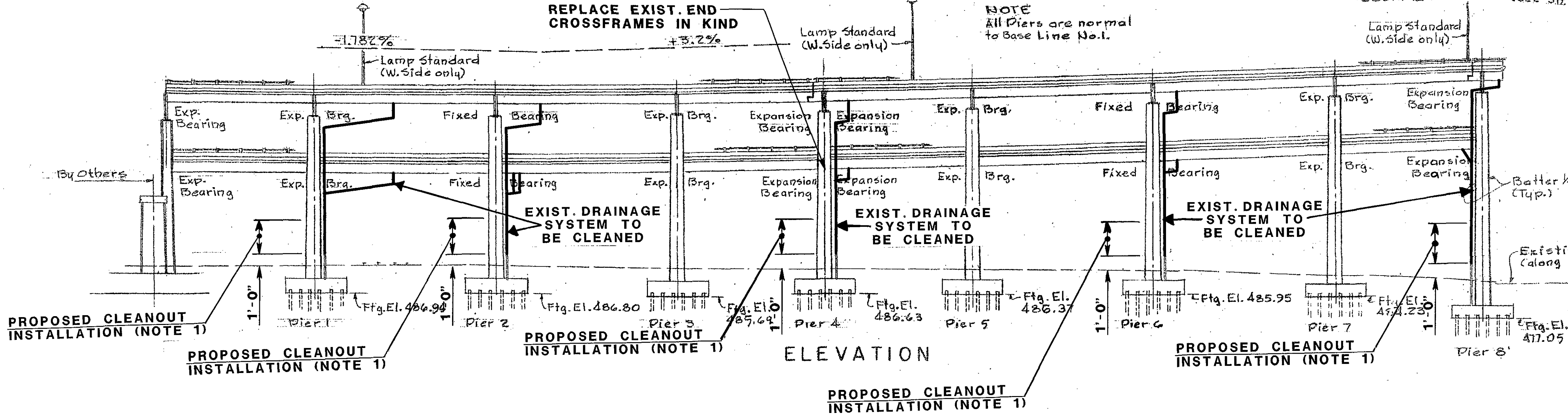


GENERAL PLAN

REPLACE EXIST. END
 CROSSFRAMES IN KIND

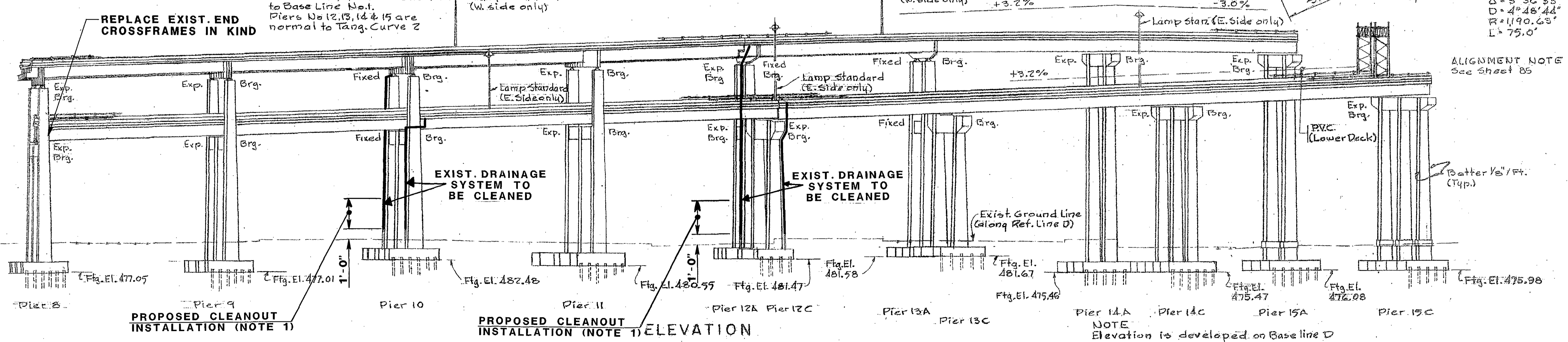
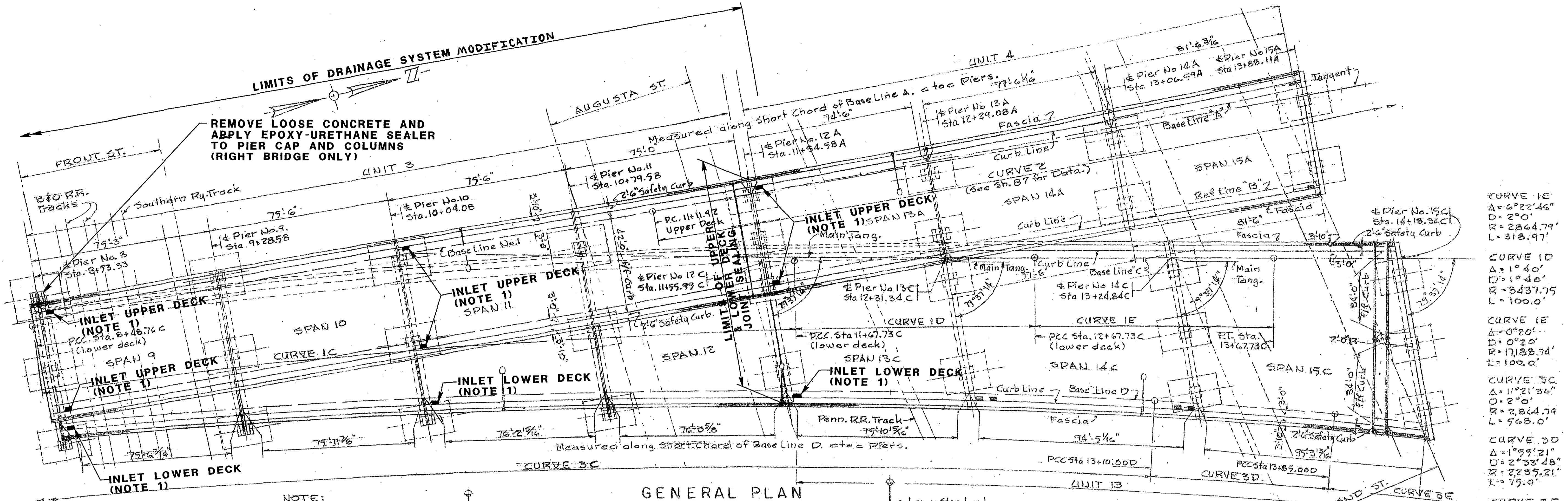
NOTE
 All Piers are normal
 to Base Line No. 1.

ALIGNMENT NOTE:
 The spiral curves shown on the Site Plan
 are shown replaced by compound
 circular curves, in order to facilitate
 the layout and construction of the
 bridge. The alignment of the compound
 curves does not depart more than
 0.10 ft. at any point from the alignment
 of the spirals they replace.



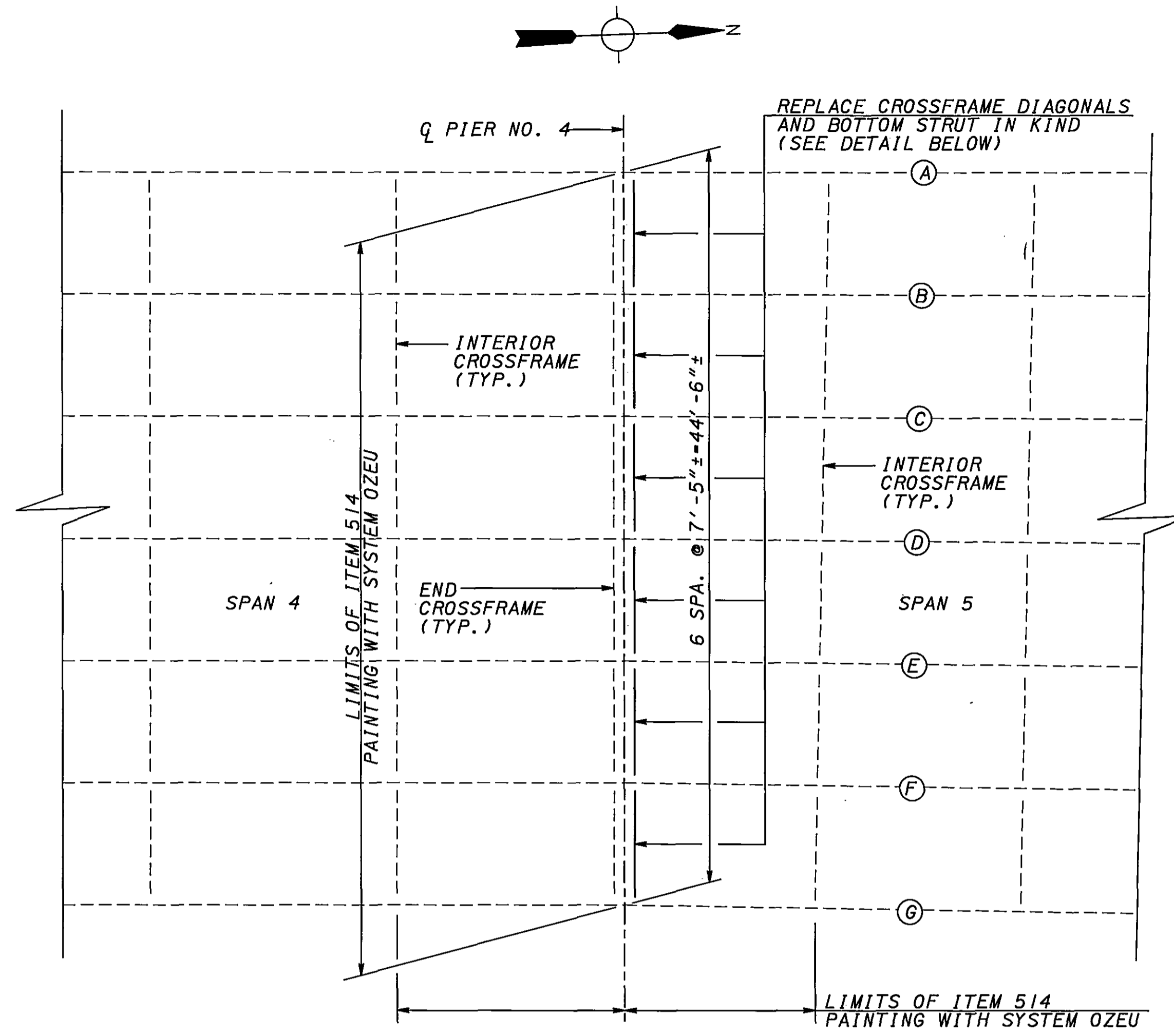
ELEVATION

NOTE 1: SEE DRAINAGE DETAILS FOR ADDITIONAL
 INFORMATION.

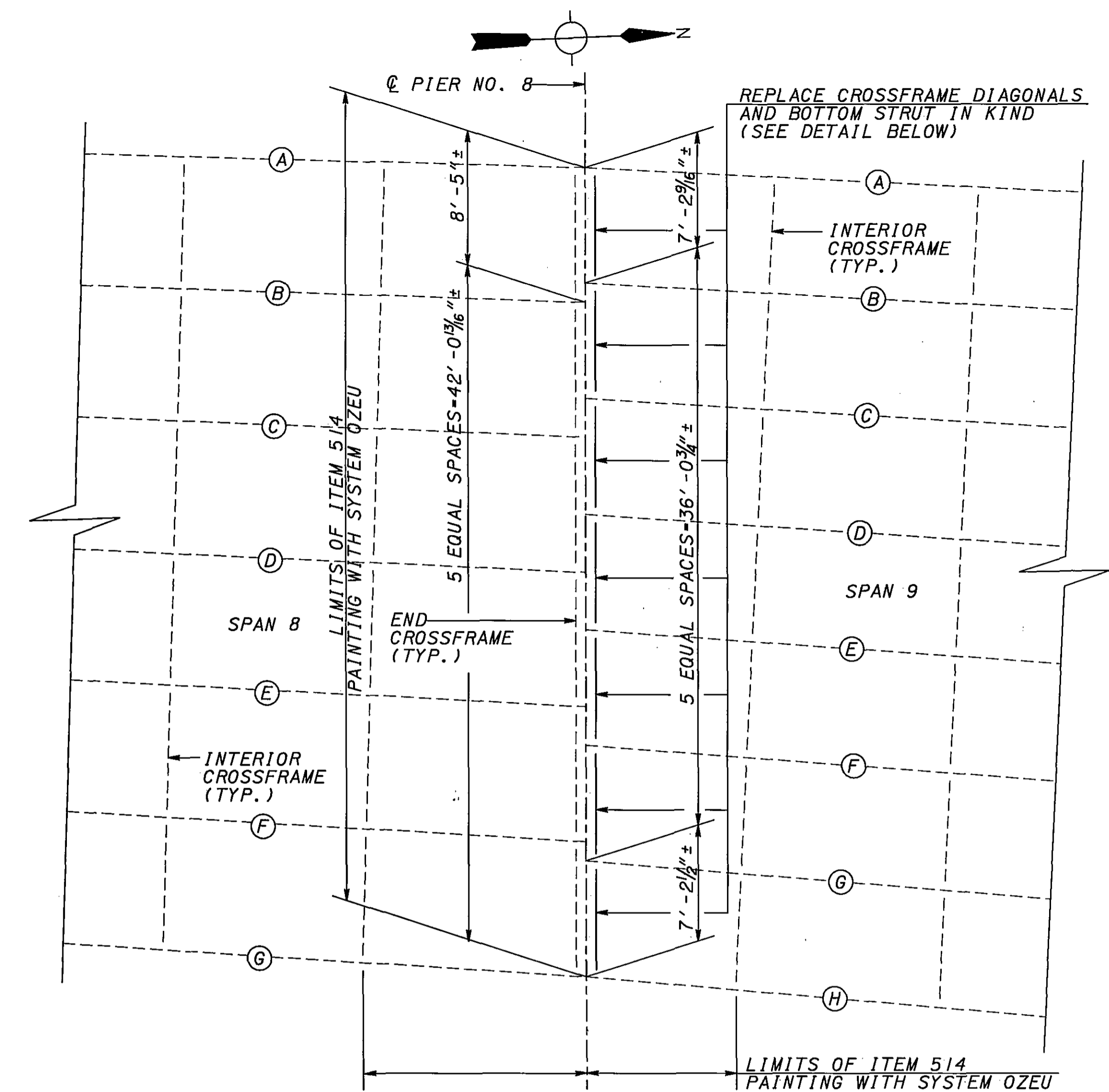


NOTE 1: SEE DRAINAGE DETAILS FOR ADDITIONAL INFORMATION.

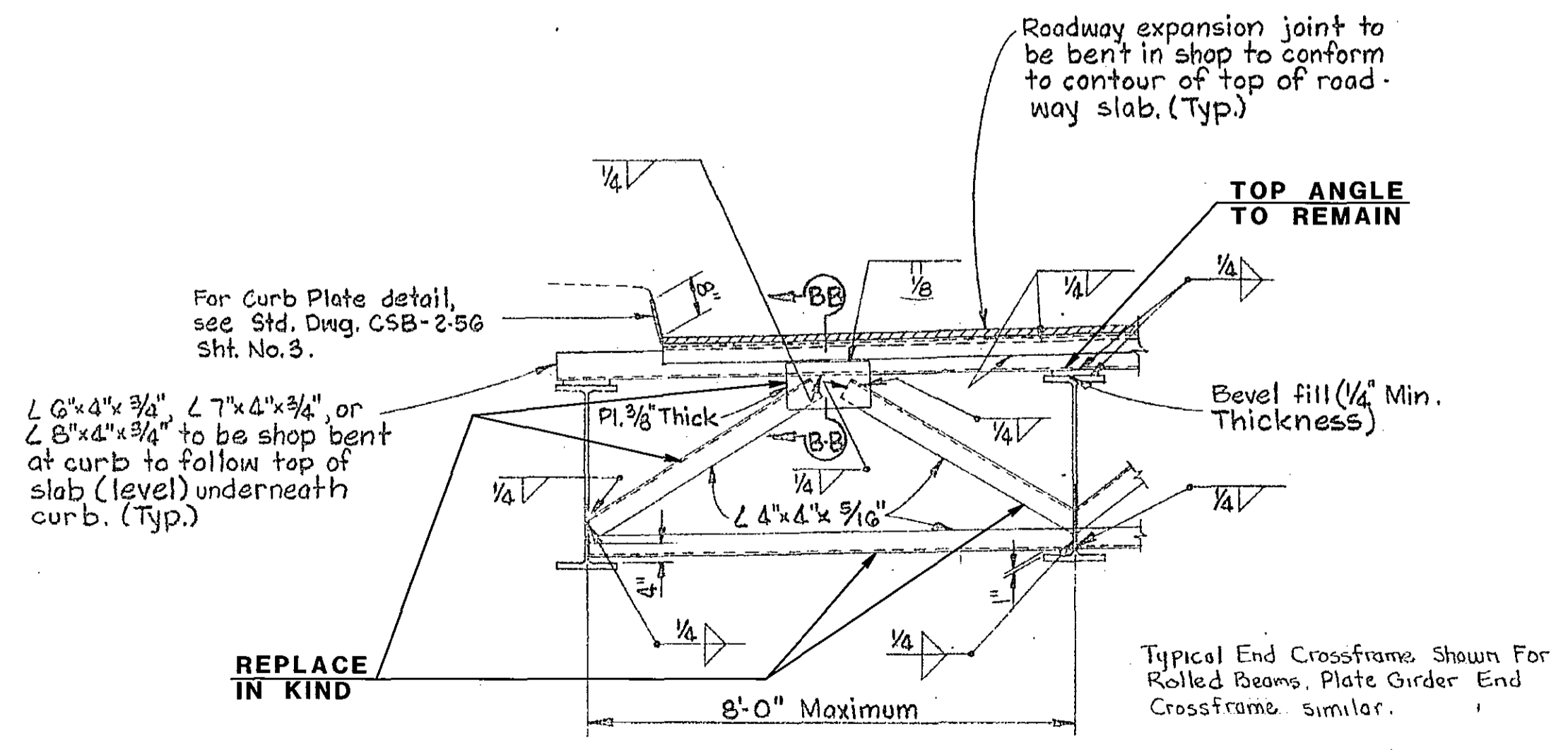
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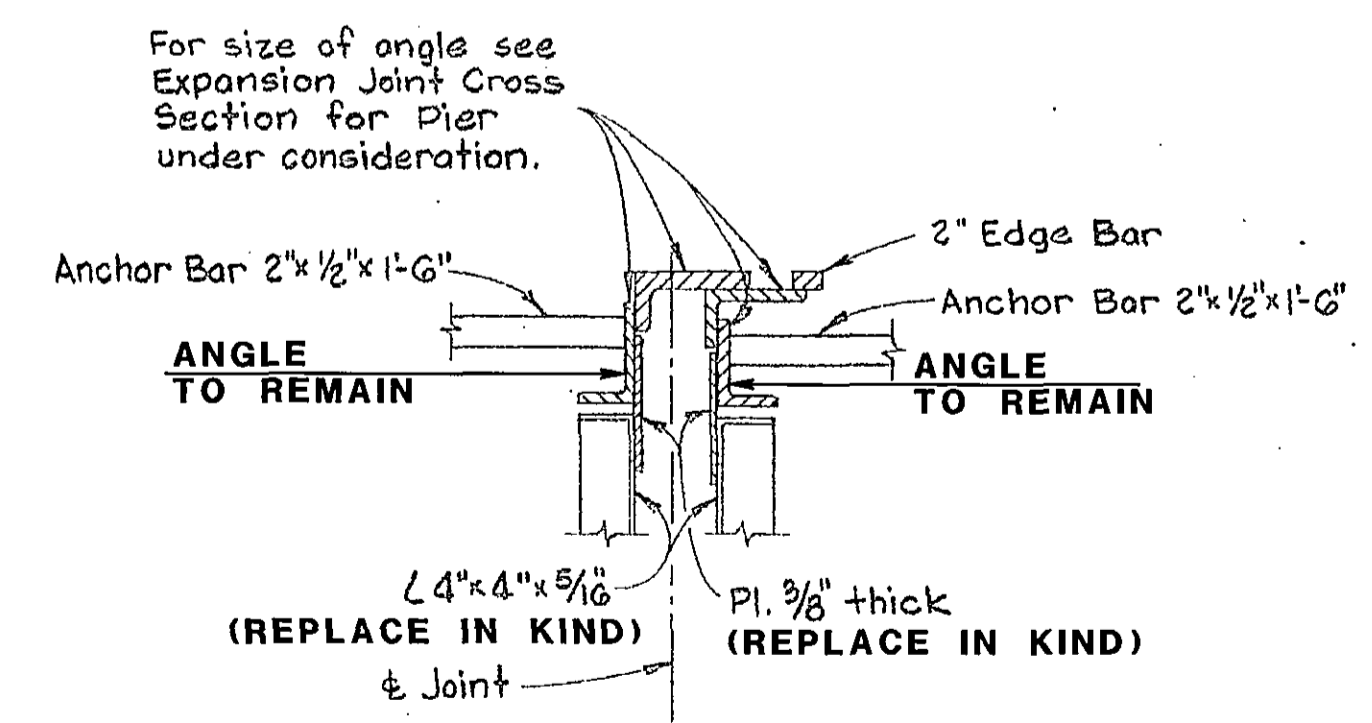
PARTIAL FRAMING PLAN-PIER 4
STRUCTURE HAM-71-000R



PARTIAL FRAMING PLAN-PIER 8
STRUCTURE HAM-71-000R



TYPICAL END CROSSFRAME-ROLLED BEAMS

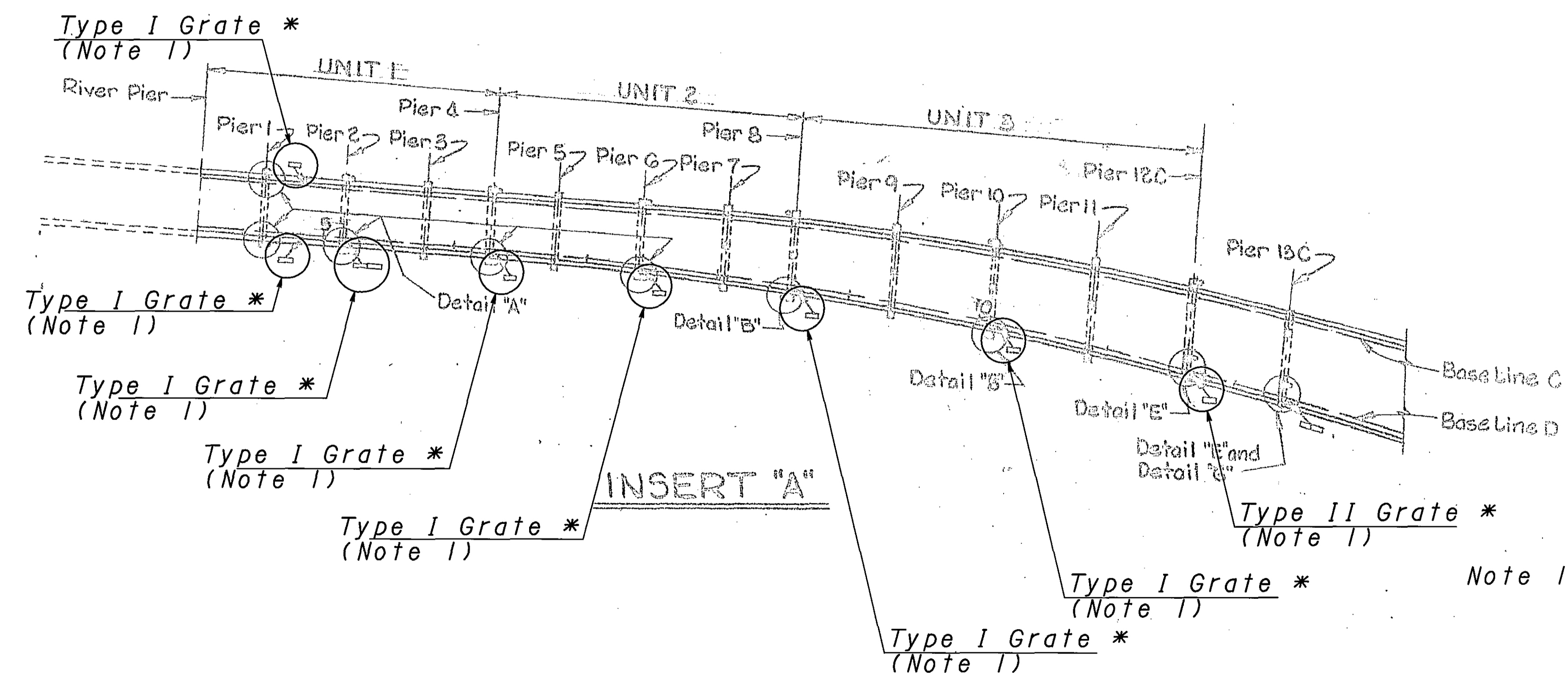
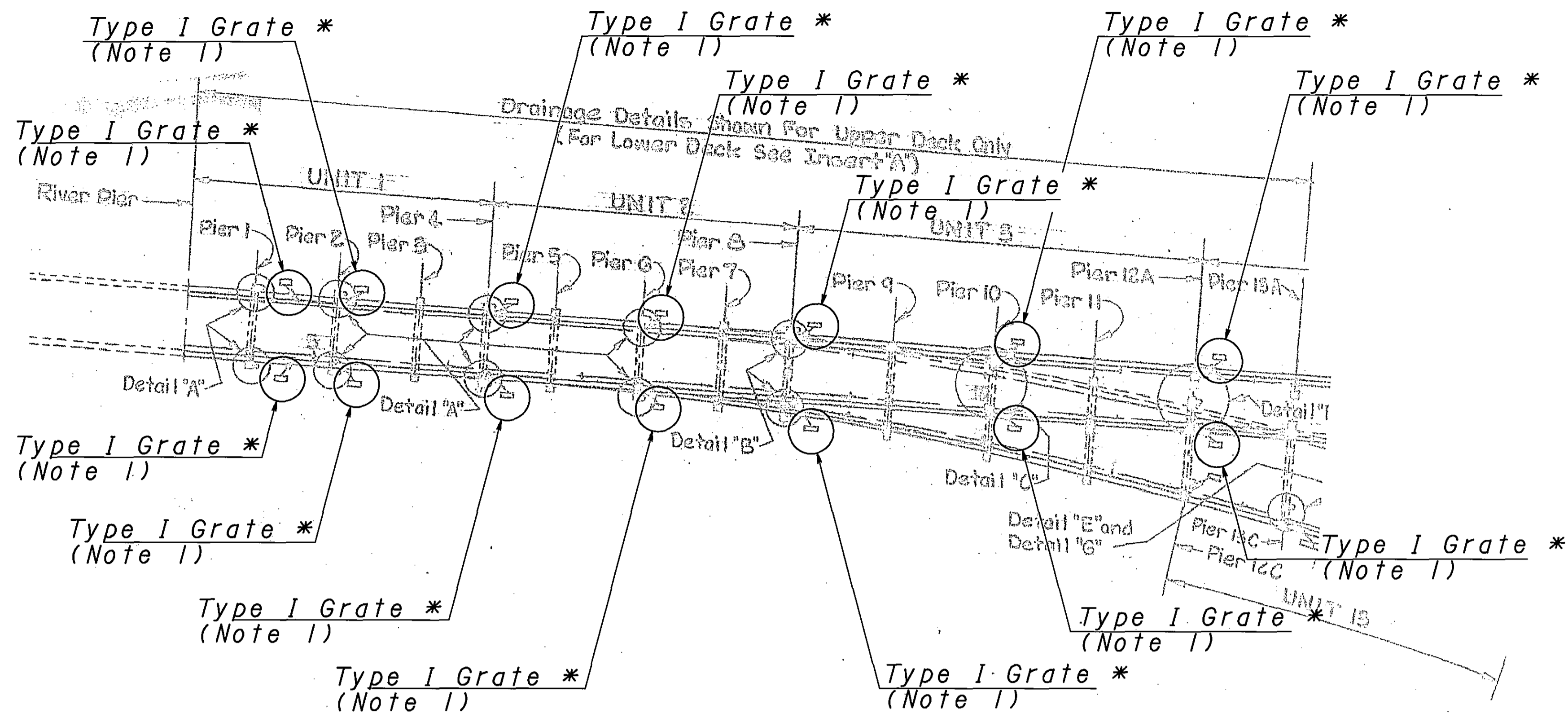


SECTION BB-BB

LEGEND:
Ⓐ - GIRDER DESIGNATION

5/3/2004 2:36:33 PM s:\projects\40556\Task K - BSB\Final Drawings\MO7\FR1.dgn

| | | | | |
|--|--|---|-----------------------|----------------------------|
| DESIGNED | | MD | CHECKED | JRB |
| DRAWN | | JTF | REVISED | |
| REVIEWED | | INTO | STRUCTURE FILE NUMBER | 3105946 (L) 3105970 (R) |
| DATE | | 04/04 | | |
| DESIGN AGENCY | | GANNETT FLEMING ENGINEERS & ARCHITECTS, P.C. 4151 WESTVILLE, OHIO 43081 | | |
| PARTIAL FRAMING PLAN AND DETAILS BRIDGE NO. HAM-71-0000 L/R OVER MEHRING WAY AND PETE ROSE WAY | | | | |
| HAM-71-0.00 | | | | |
| 7 10 | | | | |



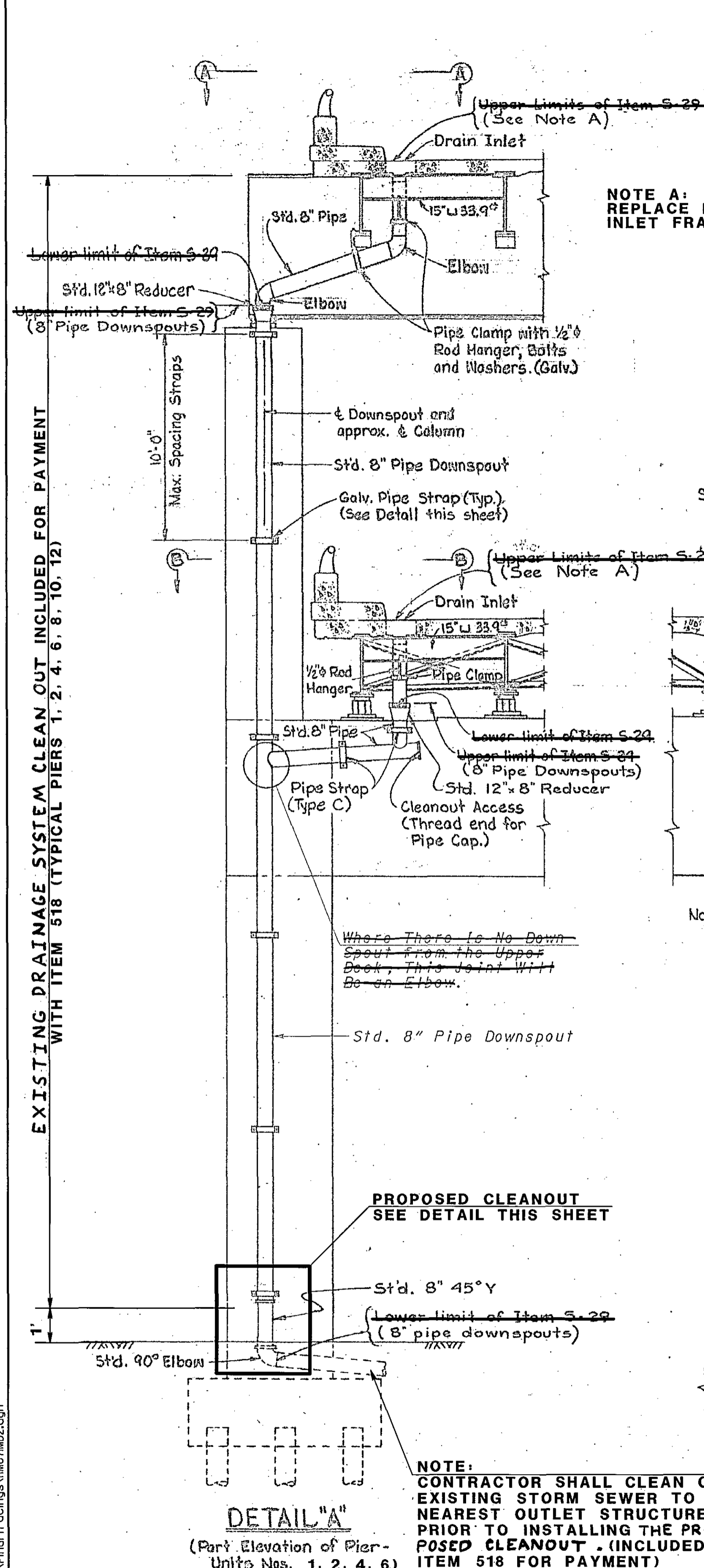
- NOTES**
- Denotes Single Inlet
 - Denotes Double Inlet

Note 1: Remove Existing Grate and Replace with Proposed Inlet Grating. Existing Frames to Remain. See Drainage Details 2 for Type I & Type II Grate Details.

* CONTRACTOR TO VERIFY IN THE FIELD THE TYPE OF GRATING (TYPE I OR II) TO BE REPLACED AT THIS LOCATION. THE NEW GRATING SHALL NOT BE ORDERED FROM THE FABRICATOR UNTIL THE GRATING TYPE HAS BEEN VERIFIED AND THE EXISTING INLET DIMENSIONS MEASURED IN THE FIELD

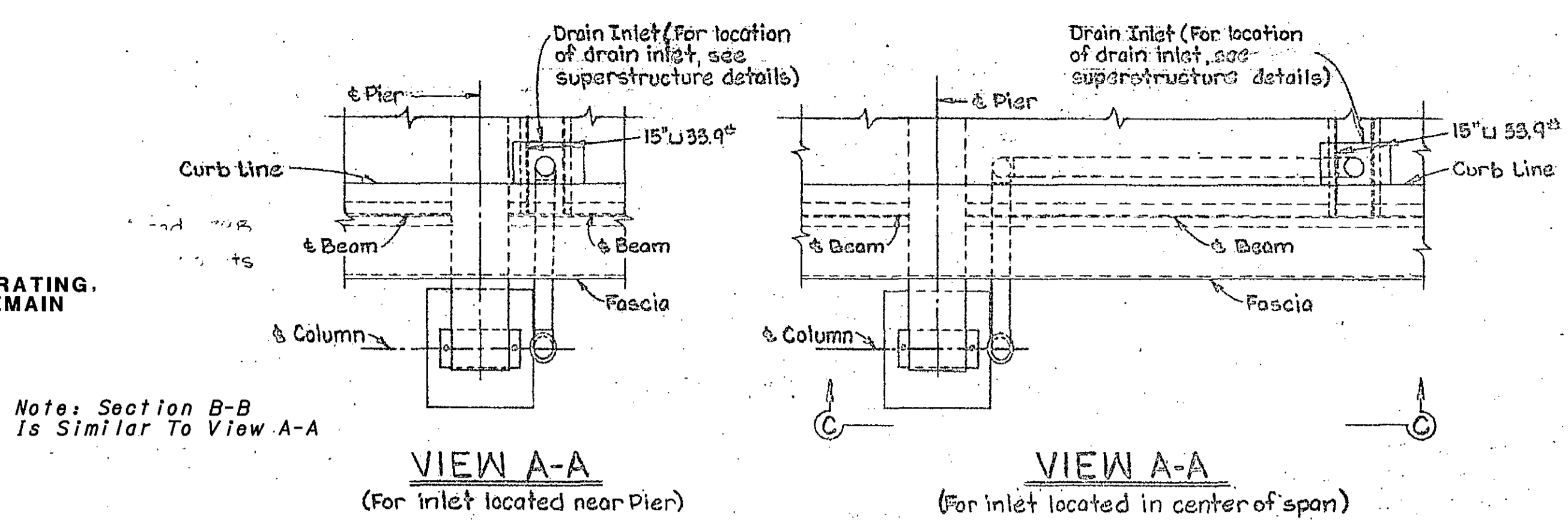
5/3/2004 2:35:12 PM
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EXISTING DRAINAGE SYSTEM CLEAN OUT INCLUDED FOR PAYMENT WITH ITEM 518 (TYPICAL PIERS 1, 2, 4, 6, 8, 10, 12)



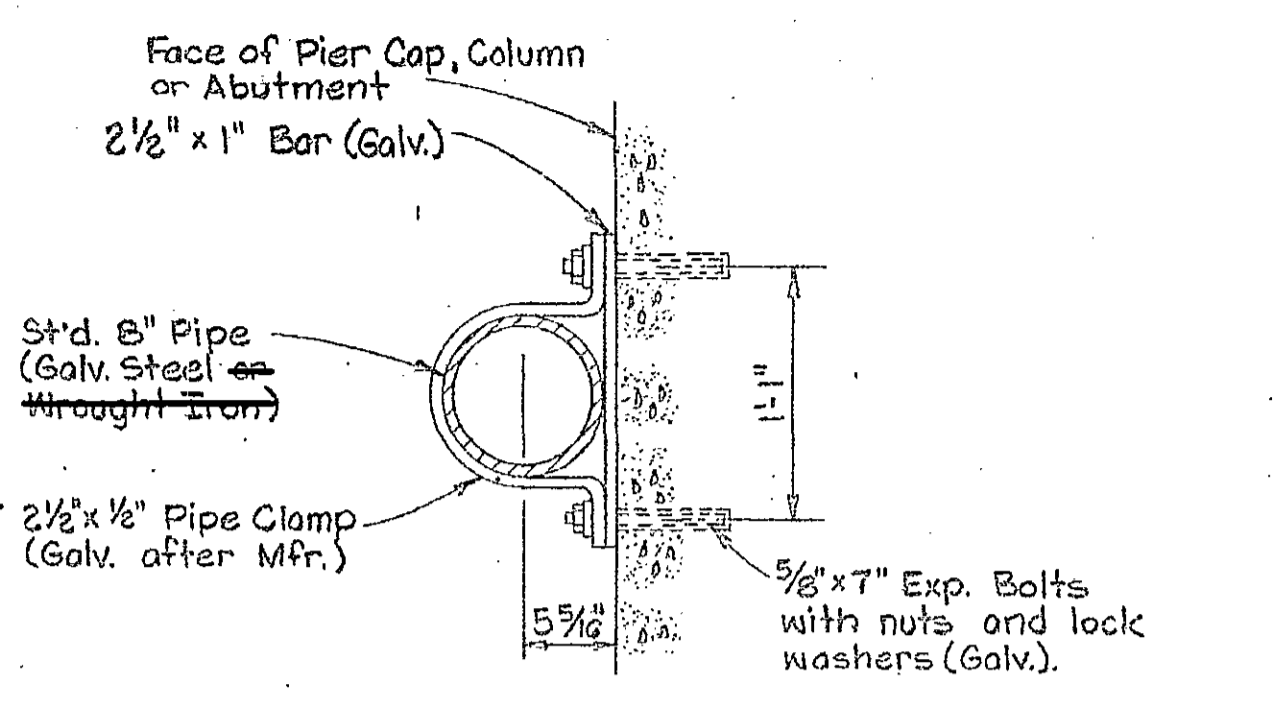
NOTE A:
 REPLACE EXISTING GRATING.
 INLET FRAMES TO REMAIN

NOTE:
 CONTRACTOR SHALL CLEAN OUT
 EXISTING STORM SEWER TO
 NEAREST OUTLET STRUCTURE
 PRIOR TO INSTALLING THE PRO-
 POSED CLEANOUT. (INCLUDED WITH
 ITEM 518 FOR PAYMENT)

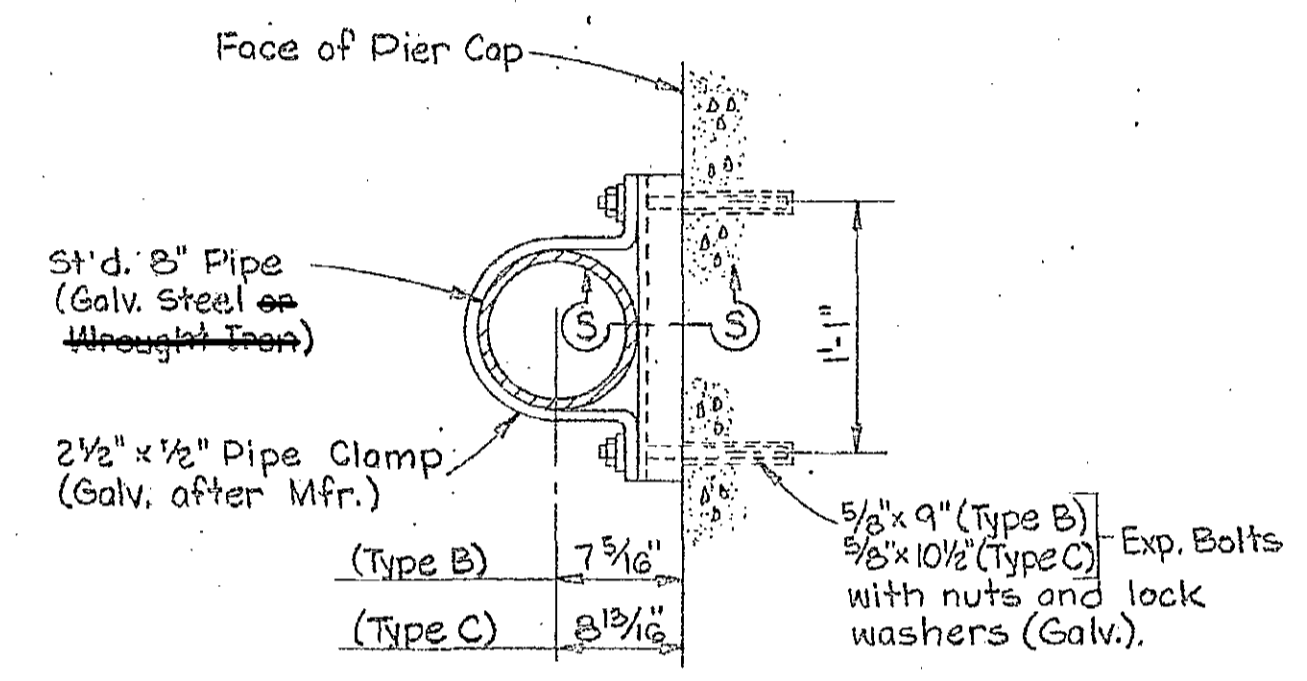


VIEW A-A
 (For inlet located near Pier)

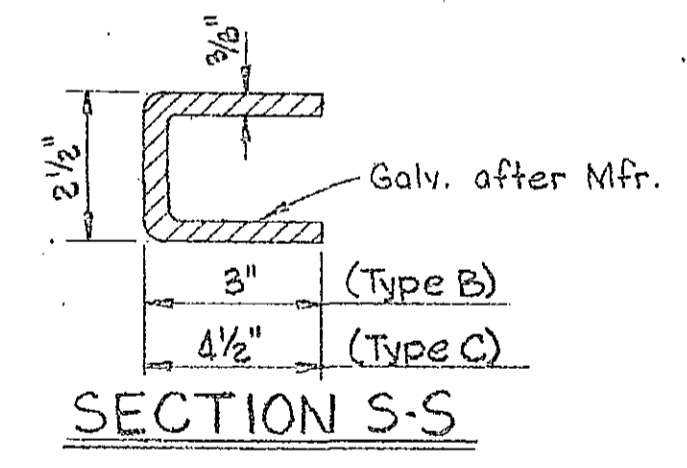
VIEW A-A
 (For inlet located in center of span)



PIPE STRAP-TYPE A

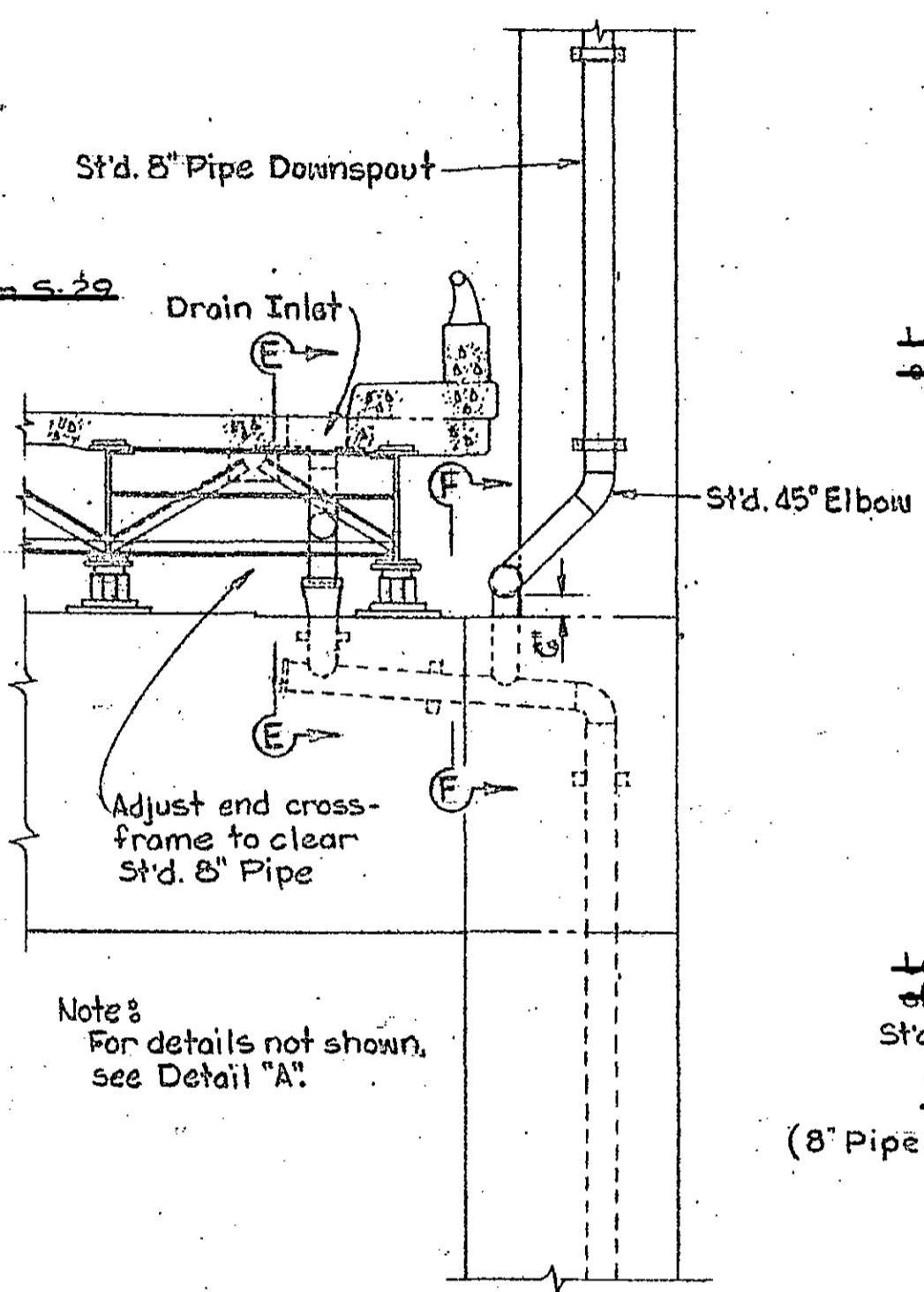


PIPE STRAP-TYPE B OR TYPE C

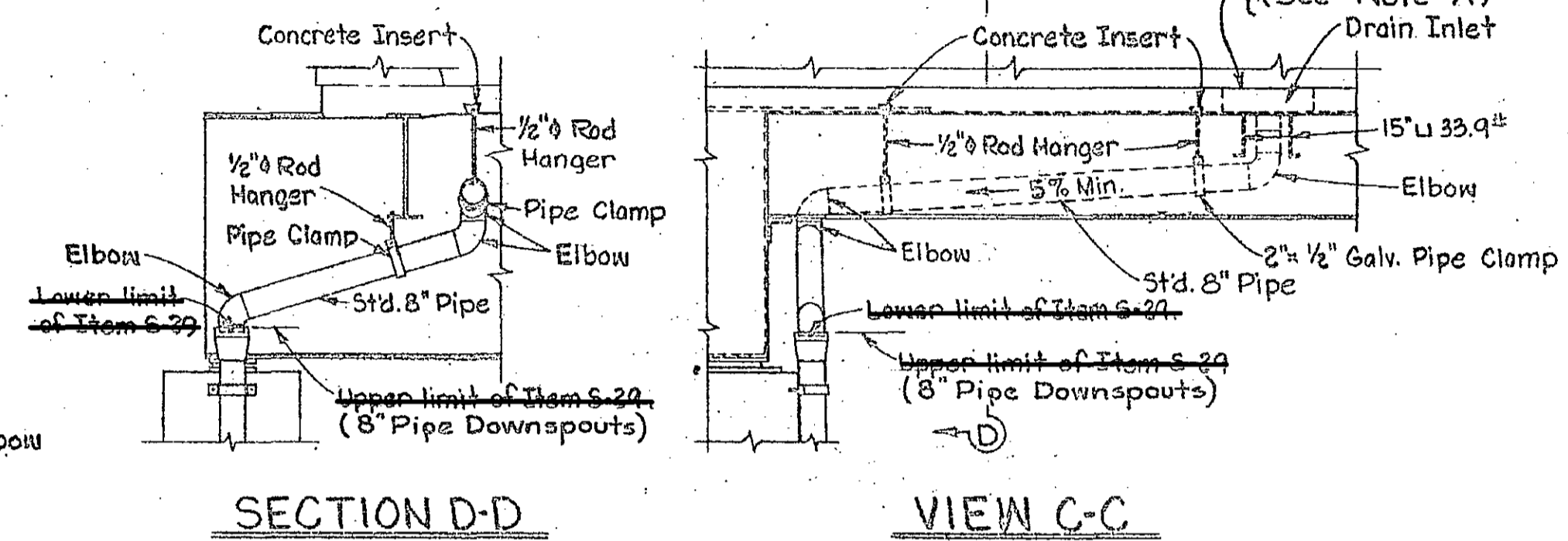


SECTION S-S

Notes:
 All pipe straps shall be
 Type A unless noted otherwise.

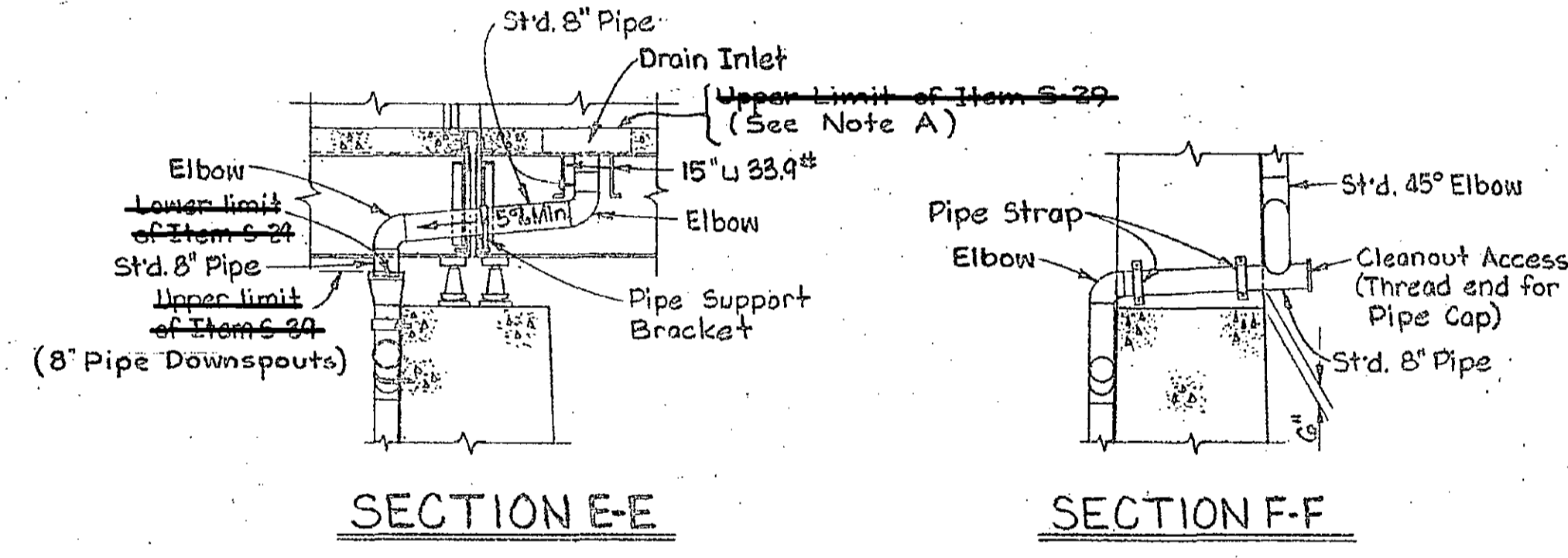


DETAIL B
 (Part Elevation of Pier 8 & 10
 Looking South)



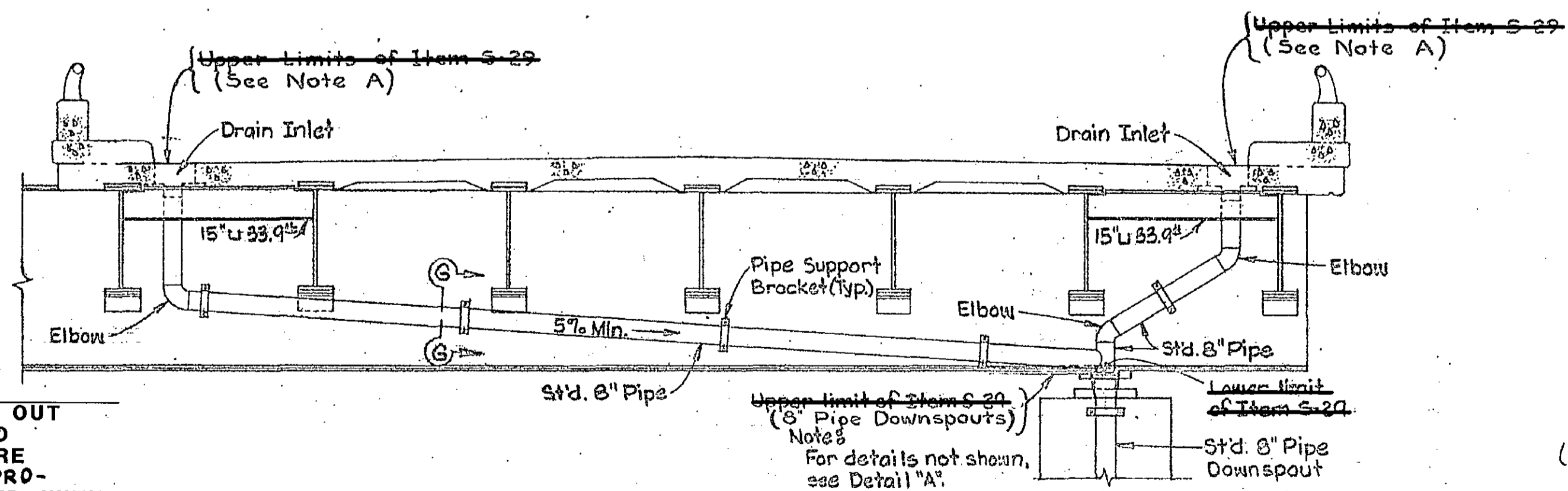
SECTION D-D

VIEW C-C

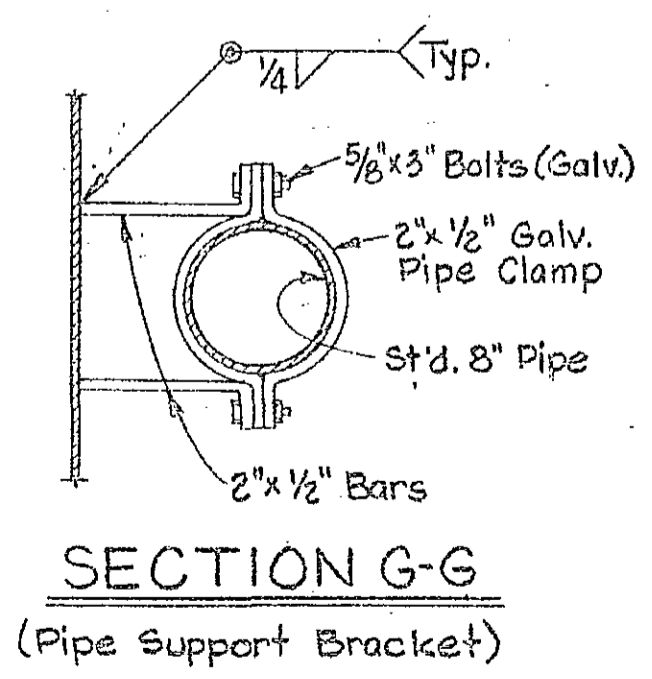


SECTION E-E

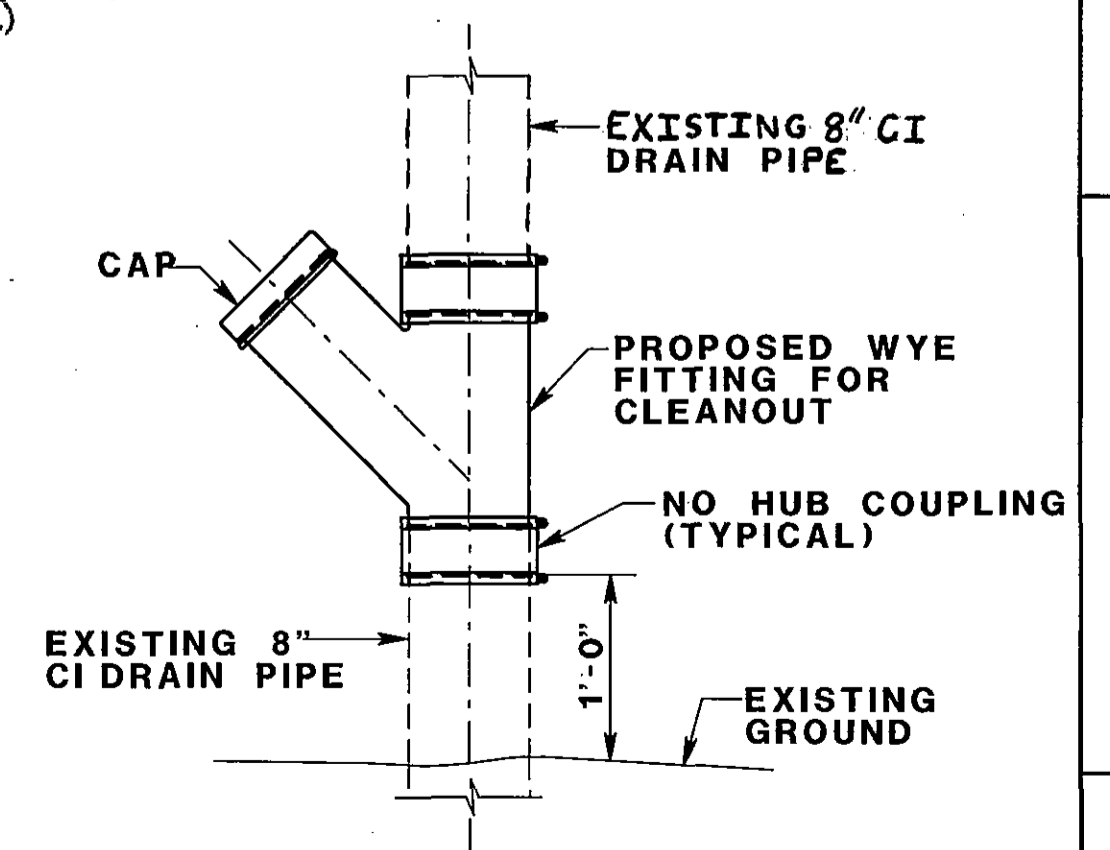
SECTION F-F



DETAIL C
 (Part Transverse Section (Looking South)
 of Upper Deck at Pier No. 10)



SECTION G-G
 (Pipe Support Bracket)



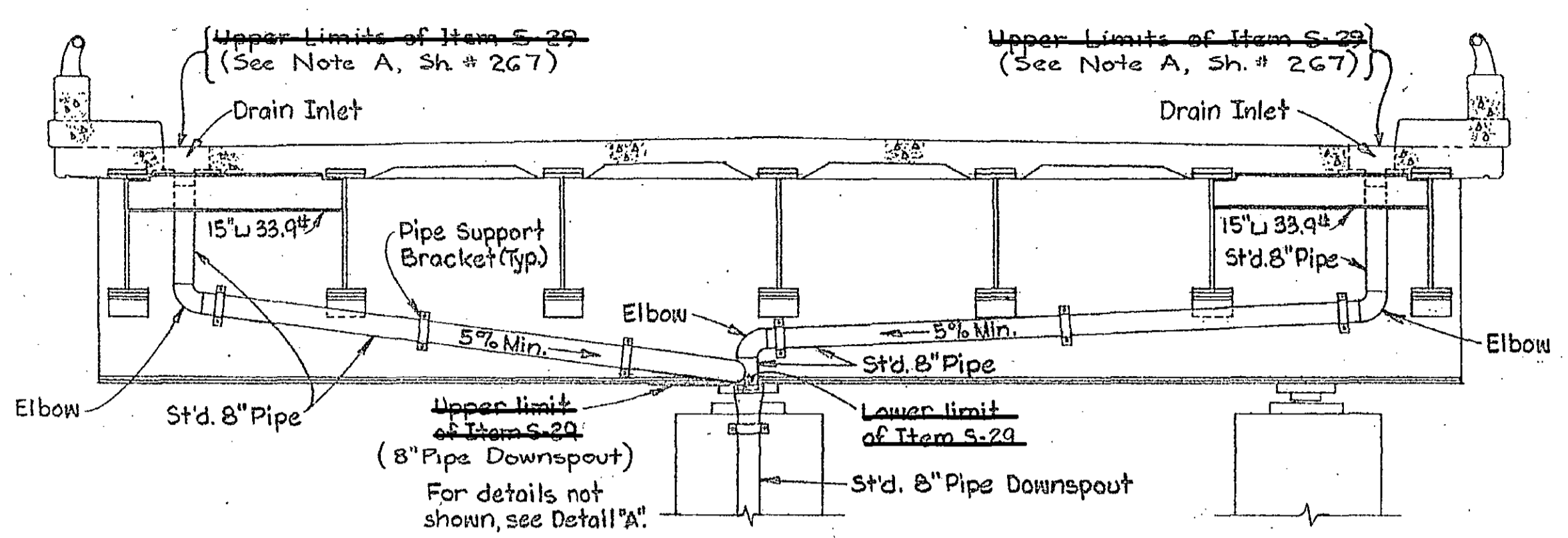
PROPOSED CLEANOUT DETAIL

DESIGN AGENCY
GANNETT FLEMING
 ENGINEERS & ARCHITECTS, P.C.
 4151 WESTMINSTER, MINN. 55125

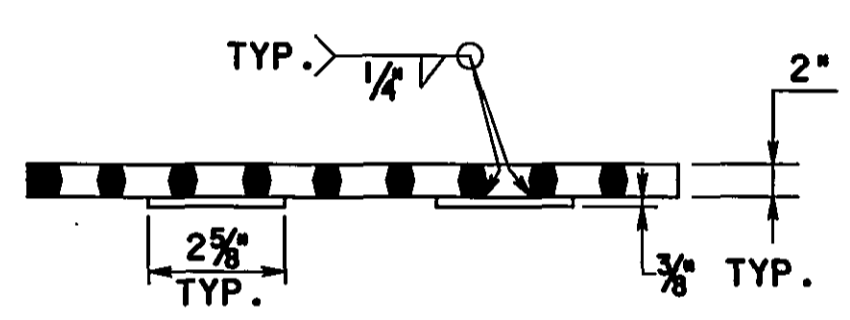
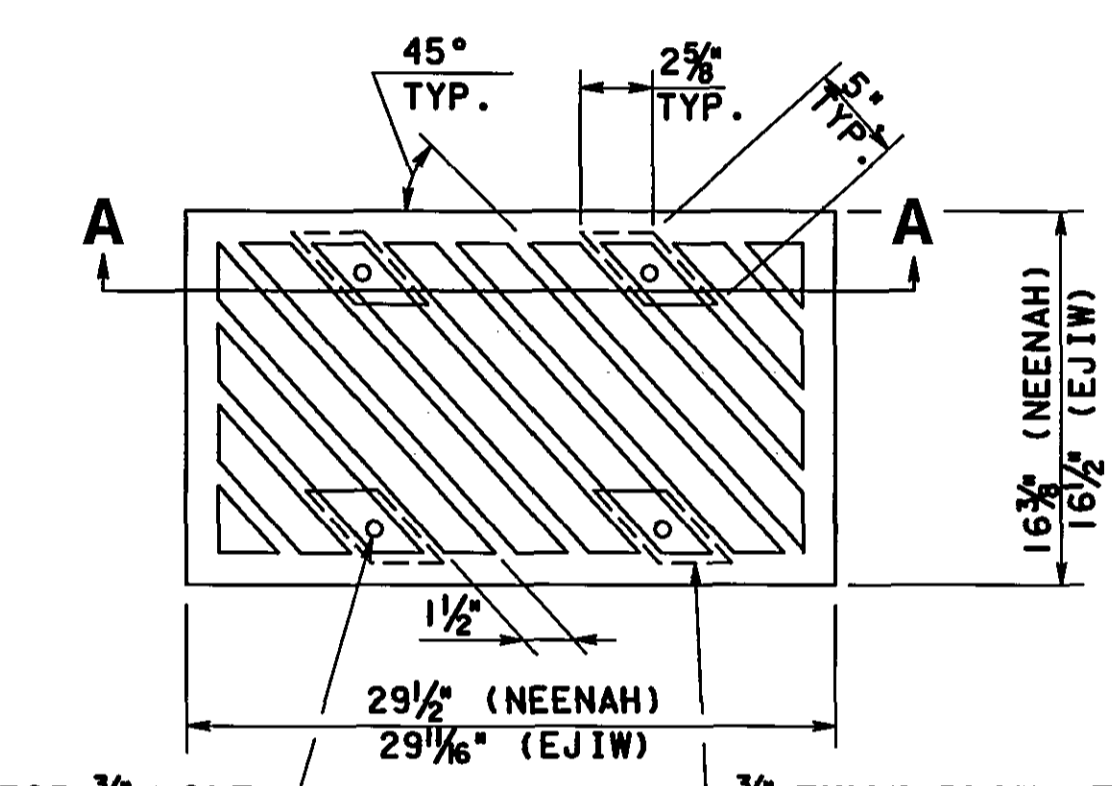
DATE 04/04
 REVIEWED MTO
 DRAWN JTF
 DESIGNED MD
 CHECKED JRB

DRAINAGE DETAILS - I
 BRIDGE NO. HAM-71-0000 L/R
 OVER MEHRING WAY AND PETE ROSE WAY

HAM-71-0.00



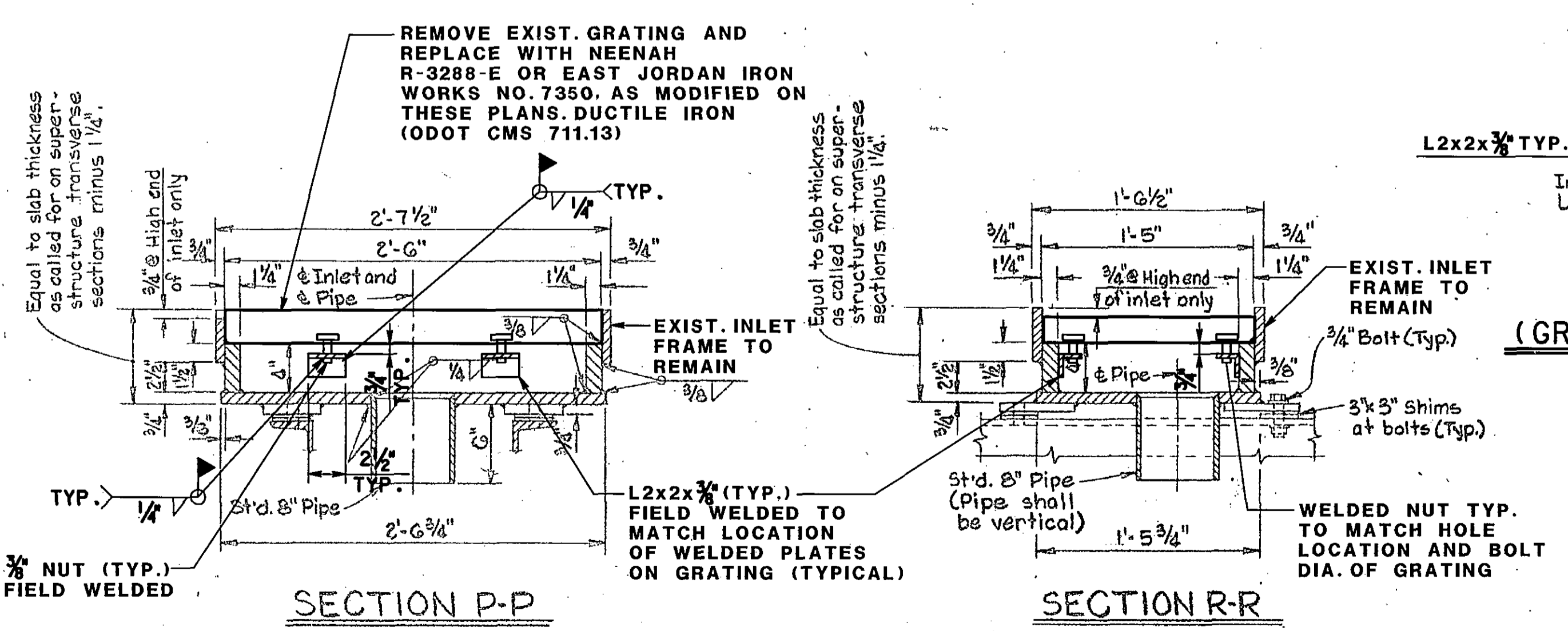
DETAIL "D"
(Transverse section (looking south)
of upper deck at Pier No. 12A)



SECTION A-A

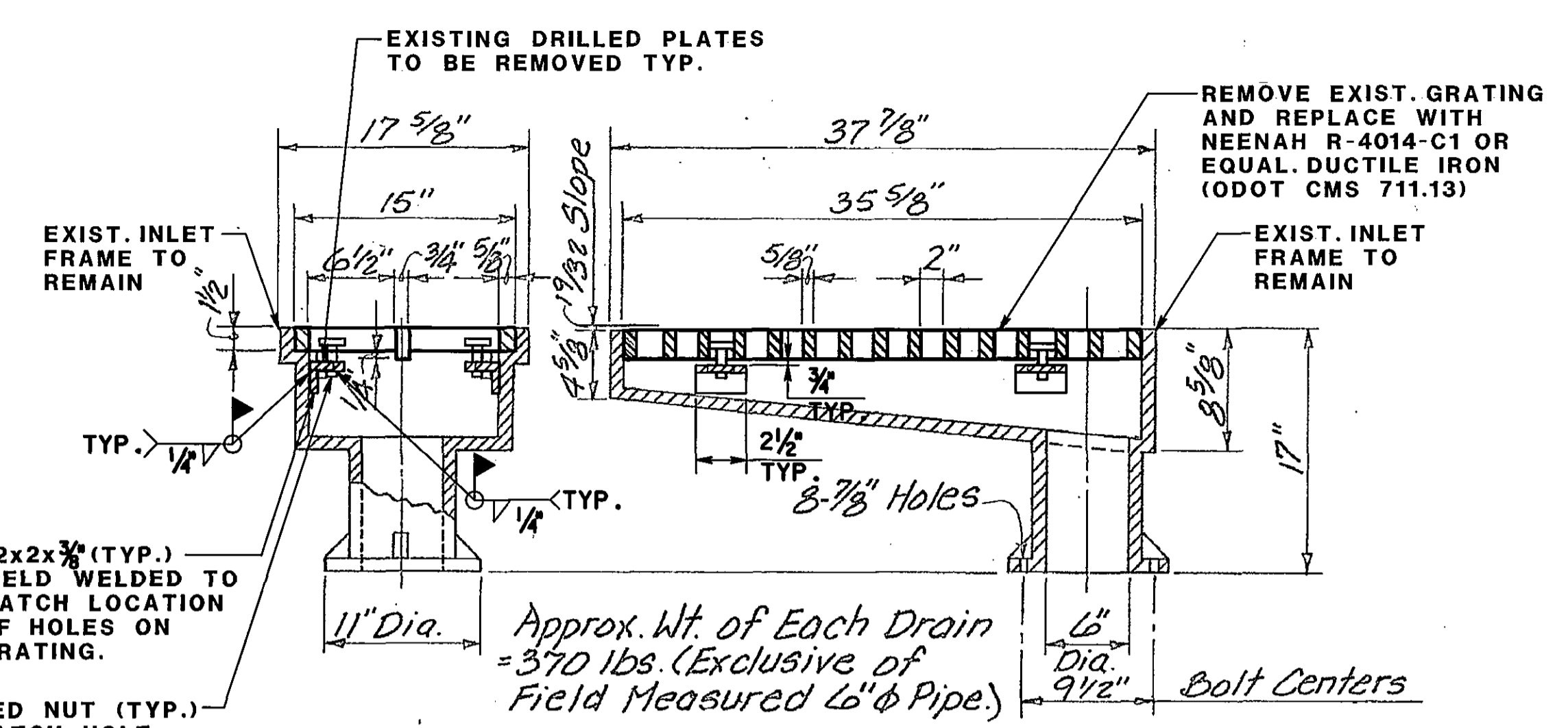
1/2" DIA. HOLE FOR 3/8" BOLT
FIELD DRILL TO MATCH
SUPPORTING ANGLES
ON FRAME.

PROPOSED BOLT DOWN INLET GRATING TYPE II

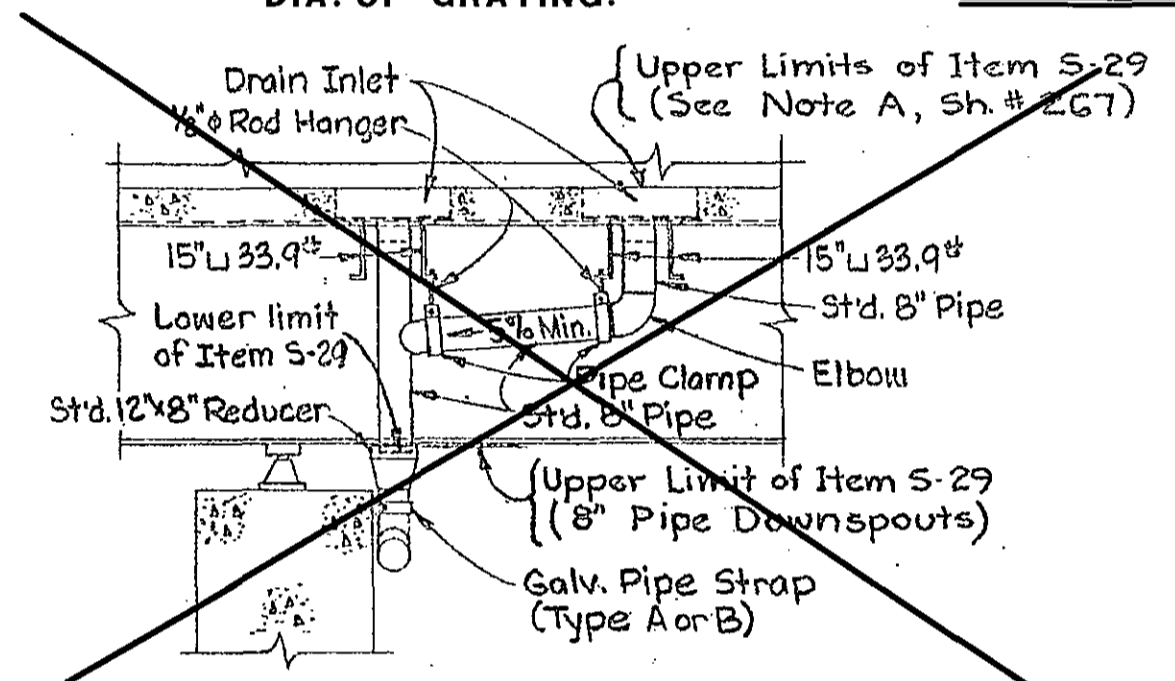


SECTION P-P

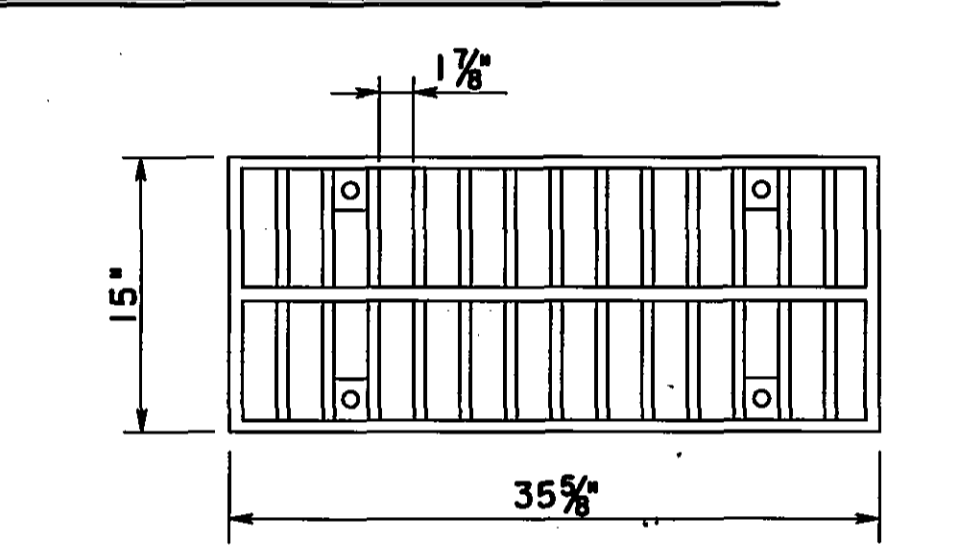
SECTION R-R



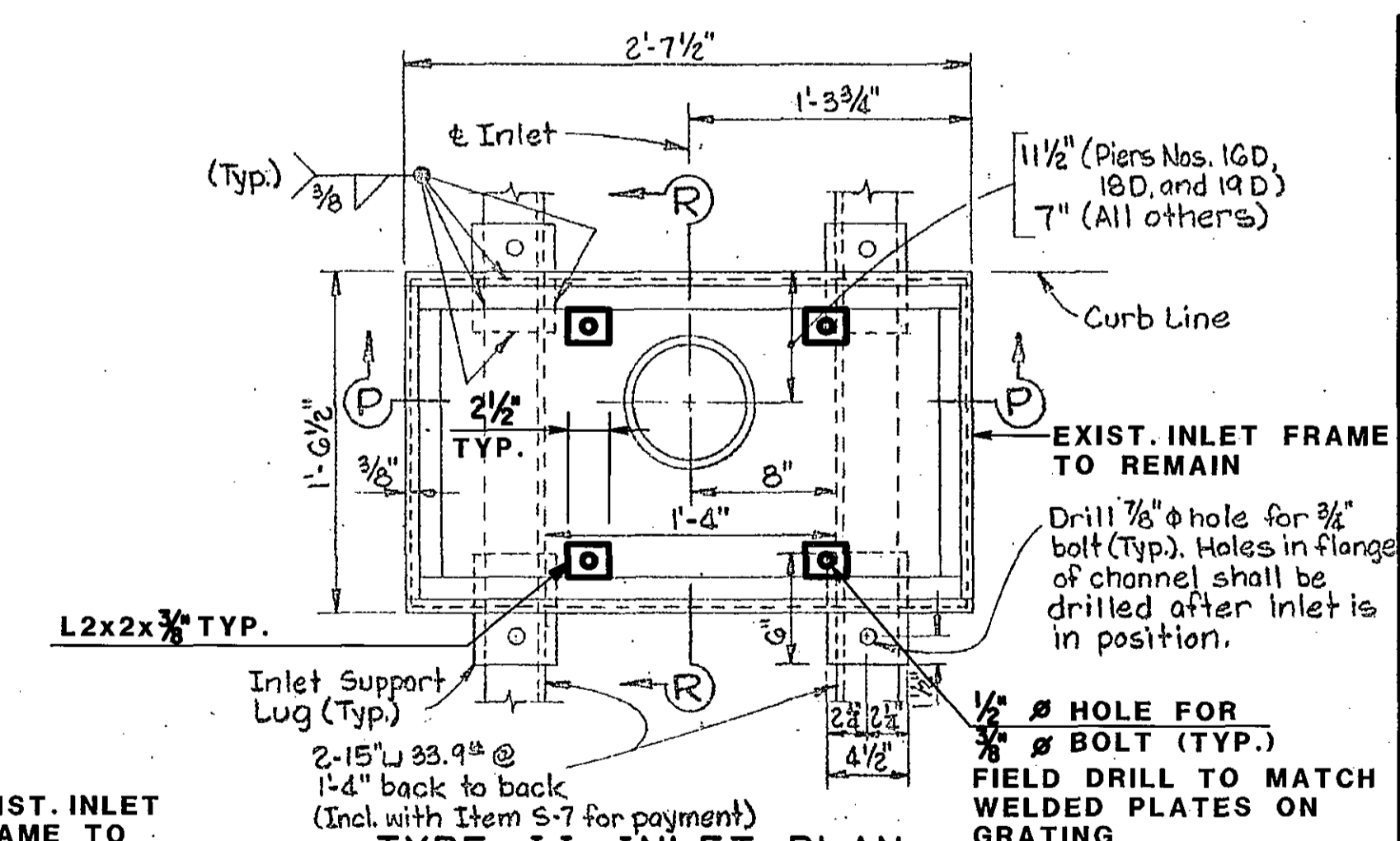
TYPE I INLET FRAME AND GRATING



VIEW J-J

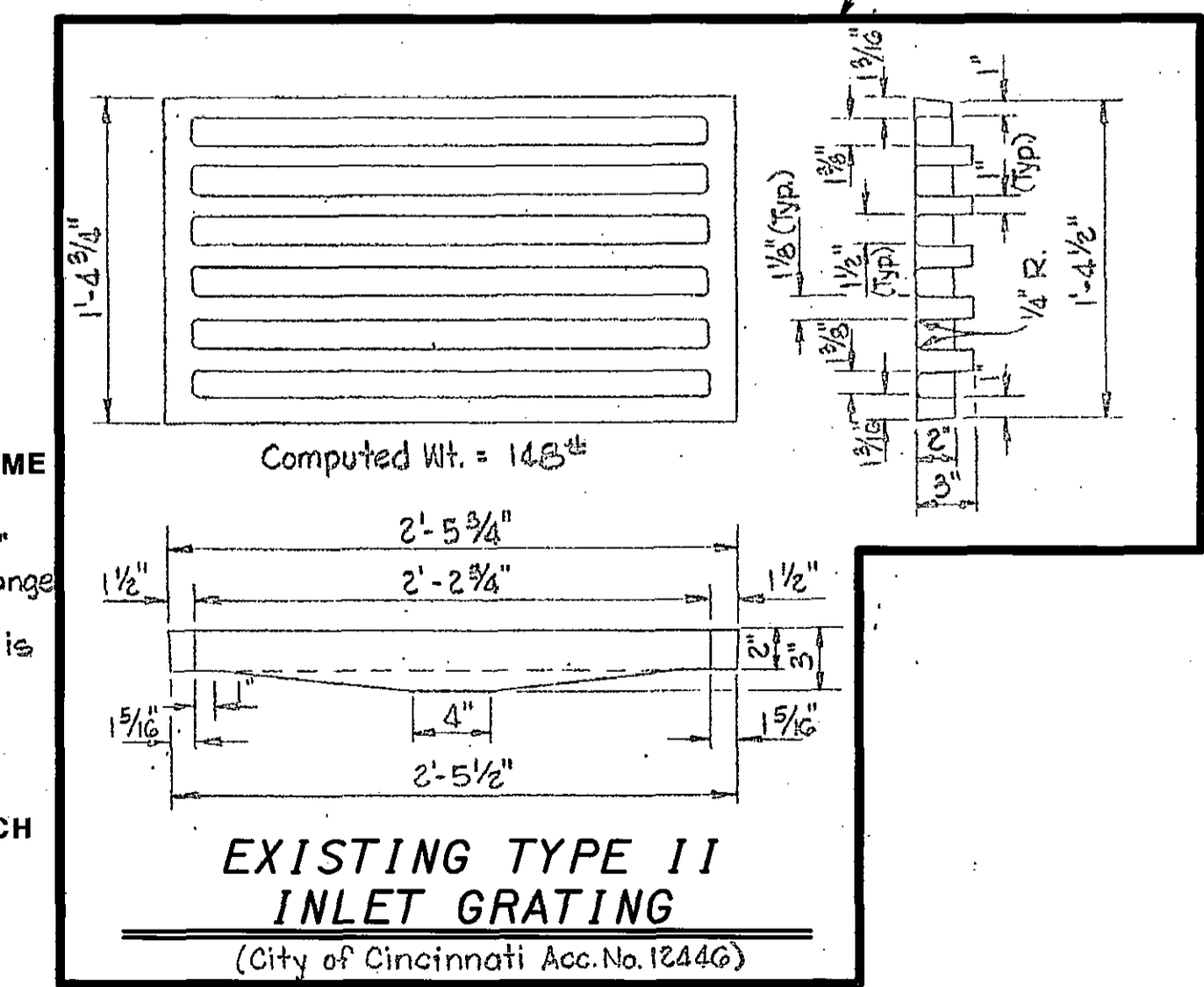


TYPE I INLET GRATING PLAN



**TYPE II INLET PLAN
(GRATING NOT SHOWN FOR CLARITY)**

For location of inlets, see superstructure details.
Inlet grating castings shall meet the requirements of Section M-2.5 of the Material Specifications of the State of Ohio.
Gratings and inlets shall be fitted to each other without rattling by grinding grating casting as necessary.
Inlet frame to be welded structural steel plates and standard steel pipe, galvanized after fabrication.
Inlet frame and grating shall be included in Item S-29 for payment. (See Note A)



**EXISTING TYPE II
INLET GRATING**
(City of Cincinnati Acc. No. 12446)

Weld channels to beam with 5/16" continuous fillet weld. Weld to beam webs only.
Space tags on inlets to permit bolting to supporting channels and beams.
Where drain inlet is located adjacent to beams without cover plates, cope channels so top of channel is flush with top of beams.
Where drain inlet is located adjacent to beams with cover plates, cope channels so that the distance from top of channel to top of slab is equal to the minimum slab thickness as called for on the superstructure transverse sections.

**ALL PROPOSED CLEANOUTS
SHALL BE GALVANIZED STEEL PIPE,
748.06.**

**CONTRACTOR SHALL FIELD MEASURE
EACH OF THE INLET OPENINGS AND
HAVE THE OUT-TO-OUT GRATE
DIMENSIONS ADJUSTED TO FIT THE
ACTUAL FRAME OPENINGS.**