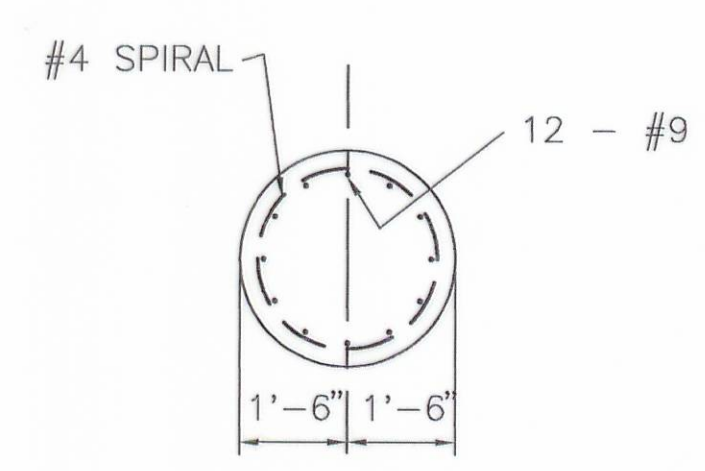
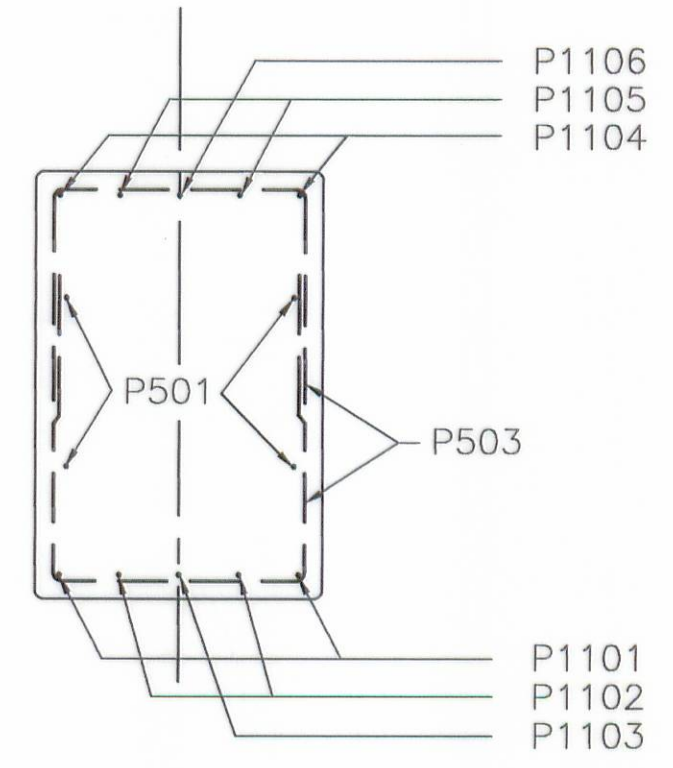
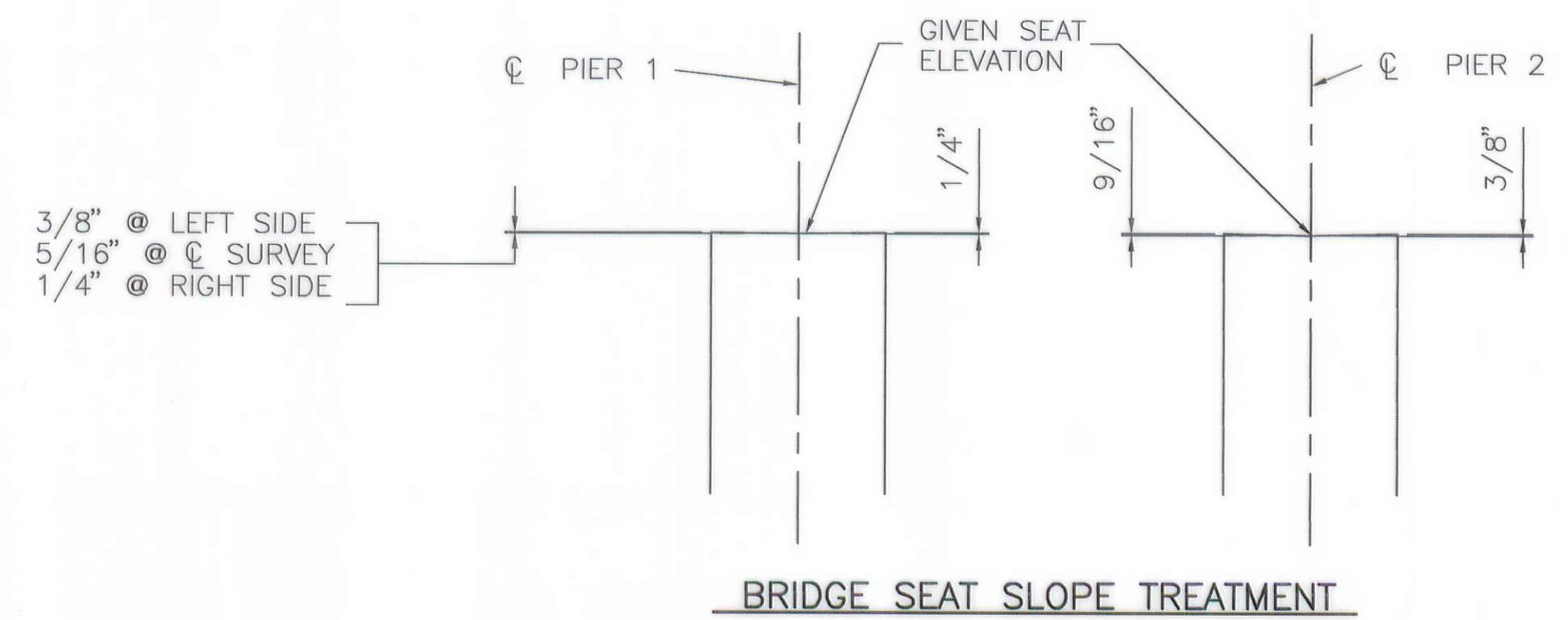
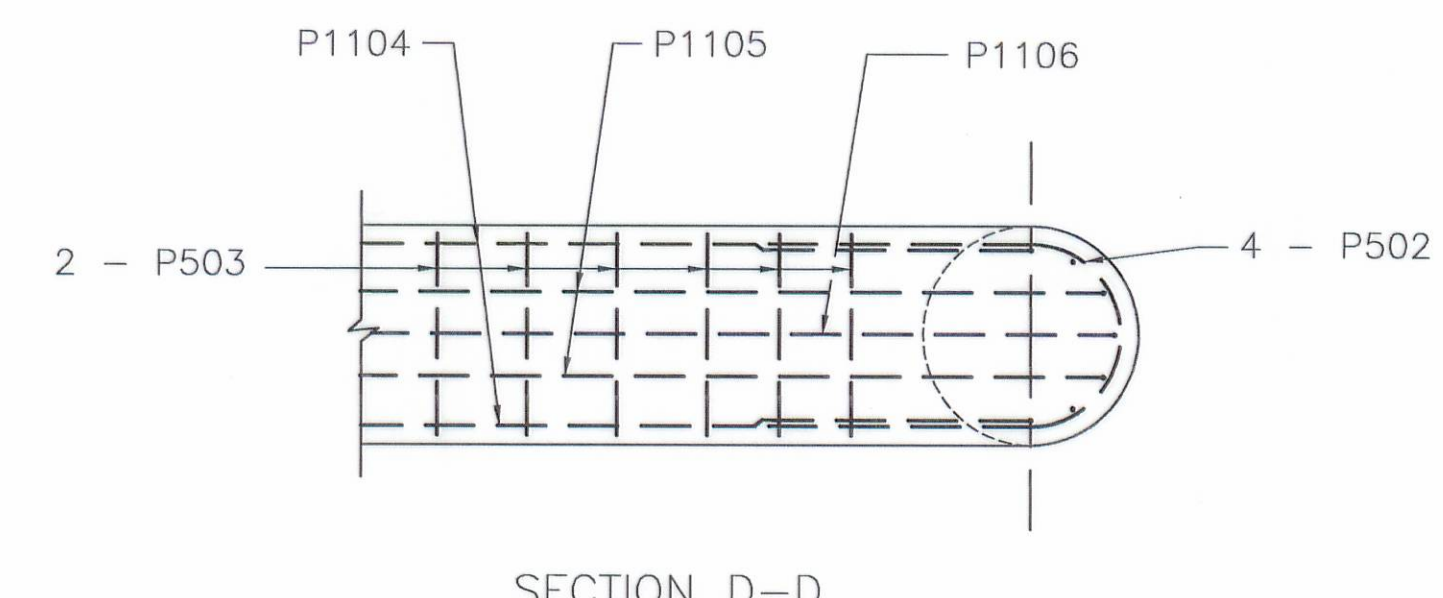


SEALING OF CONCRETE SURFACES (EPOXY) - EACH END OF PIERS END 2'-0" OF CAPS, PERIMETER OF OUTSIDE COLUMNS DOWN TO EL. 954.00

BRIDGE SEAT REINFORCING: REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF DOWEL HOLES.



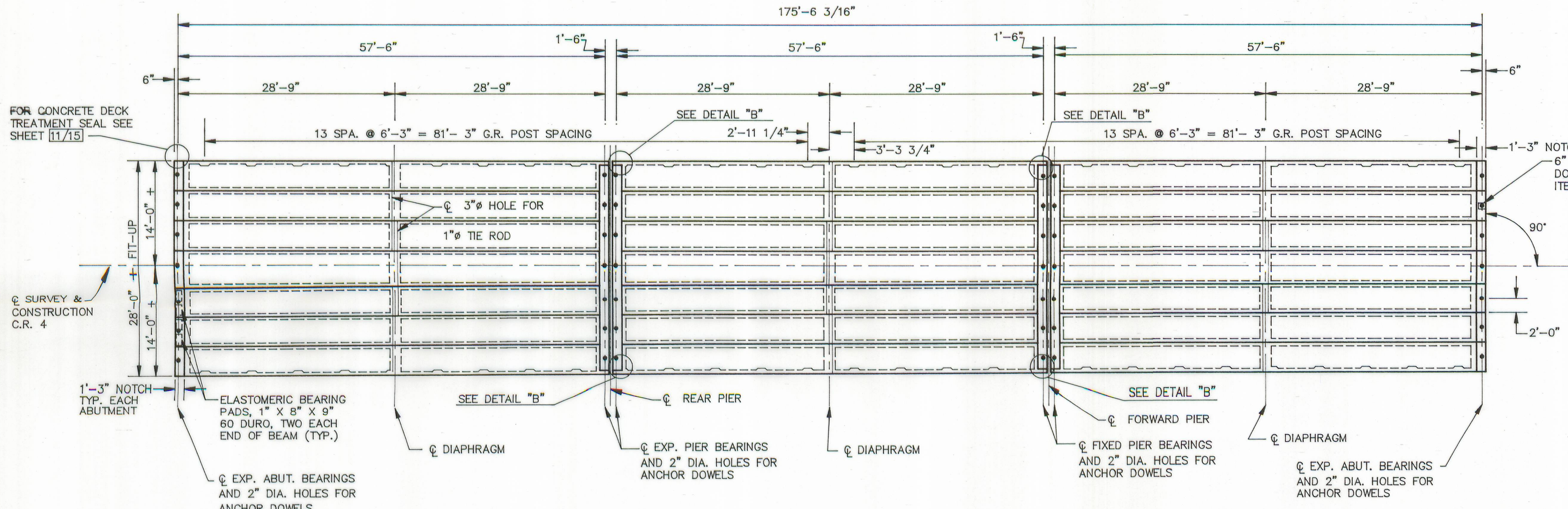
sti DYNOTEC, INC.
Consulting Engineers
2531 TILLER LANE COLUMBUS, OHIO 43231
PHONE (614) 794-1318

LOG-CR4-03.08
OVER GREAT MIAMI RIVER
STA. 81+44.41
STA. 83+24.08

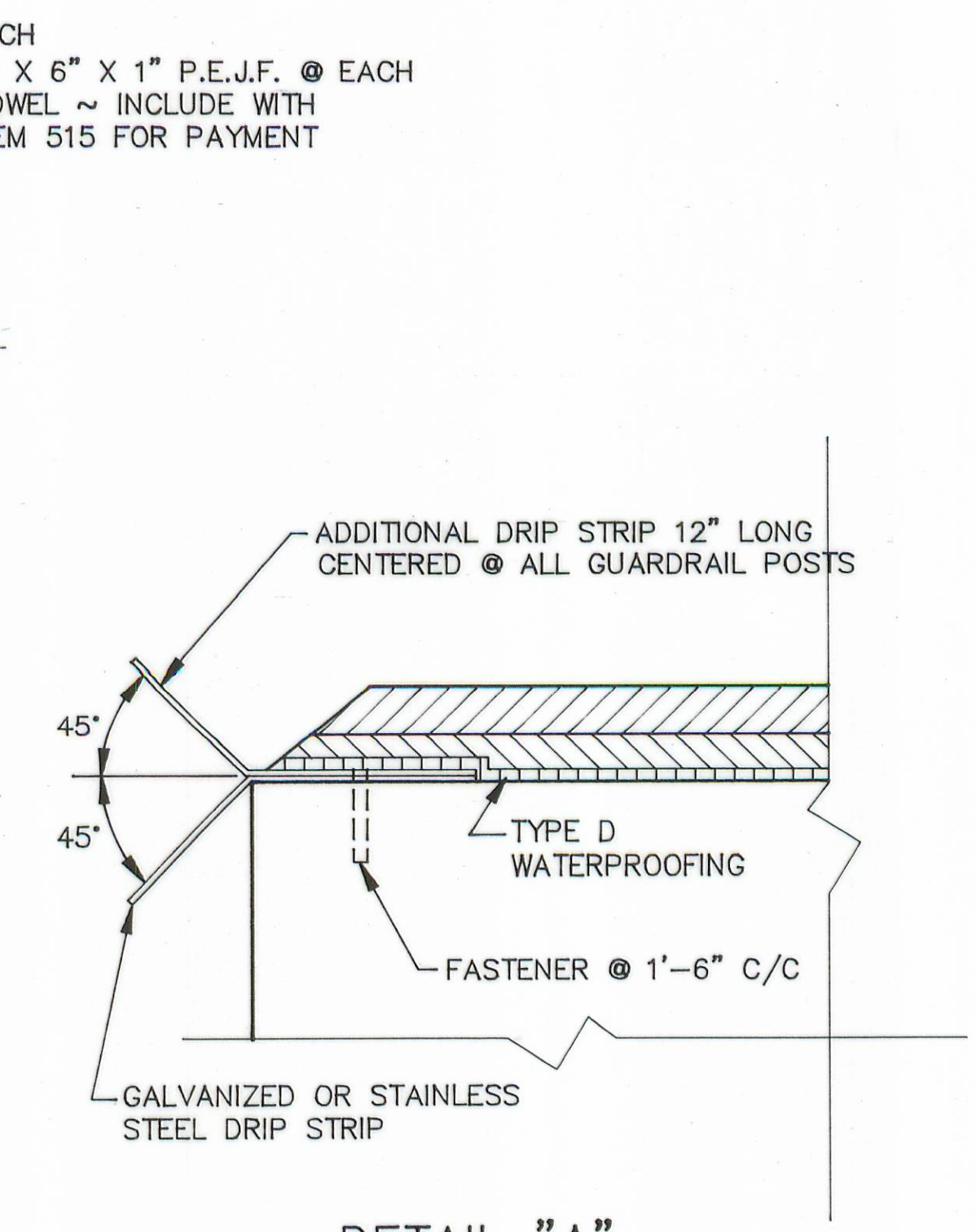
LOGAN/SHELBY COUNTY

DESIGNED	DRAWN	CHECKED	REVIEWED	REVISED
RAK	RJS	TAI	TAI	

12/15



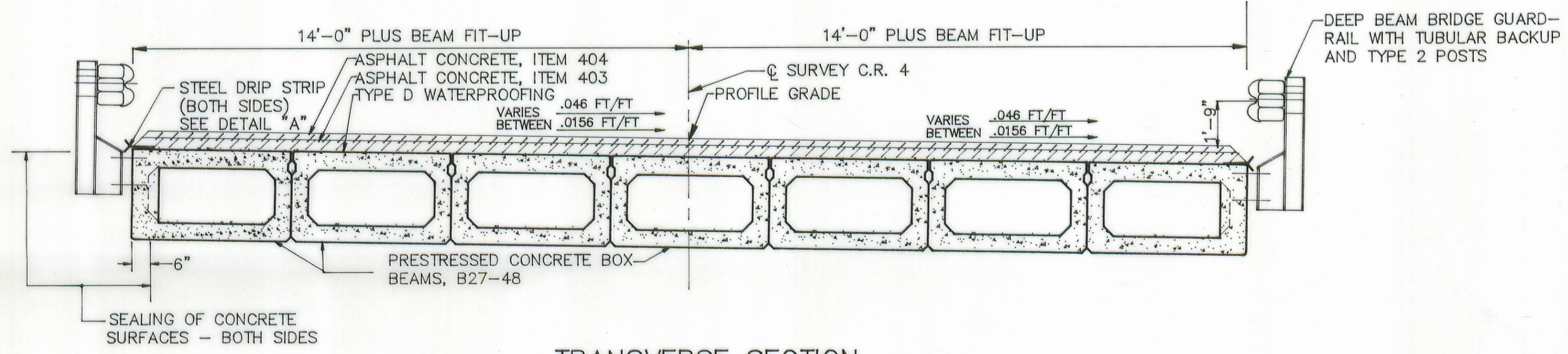
FRAMING PLAN



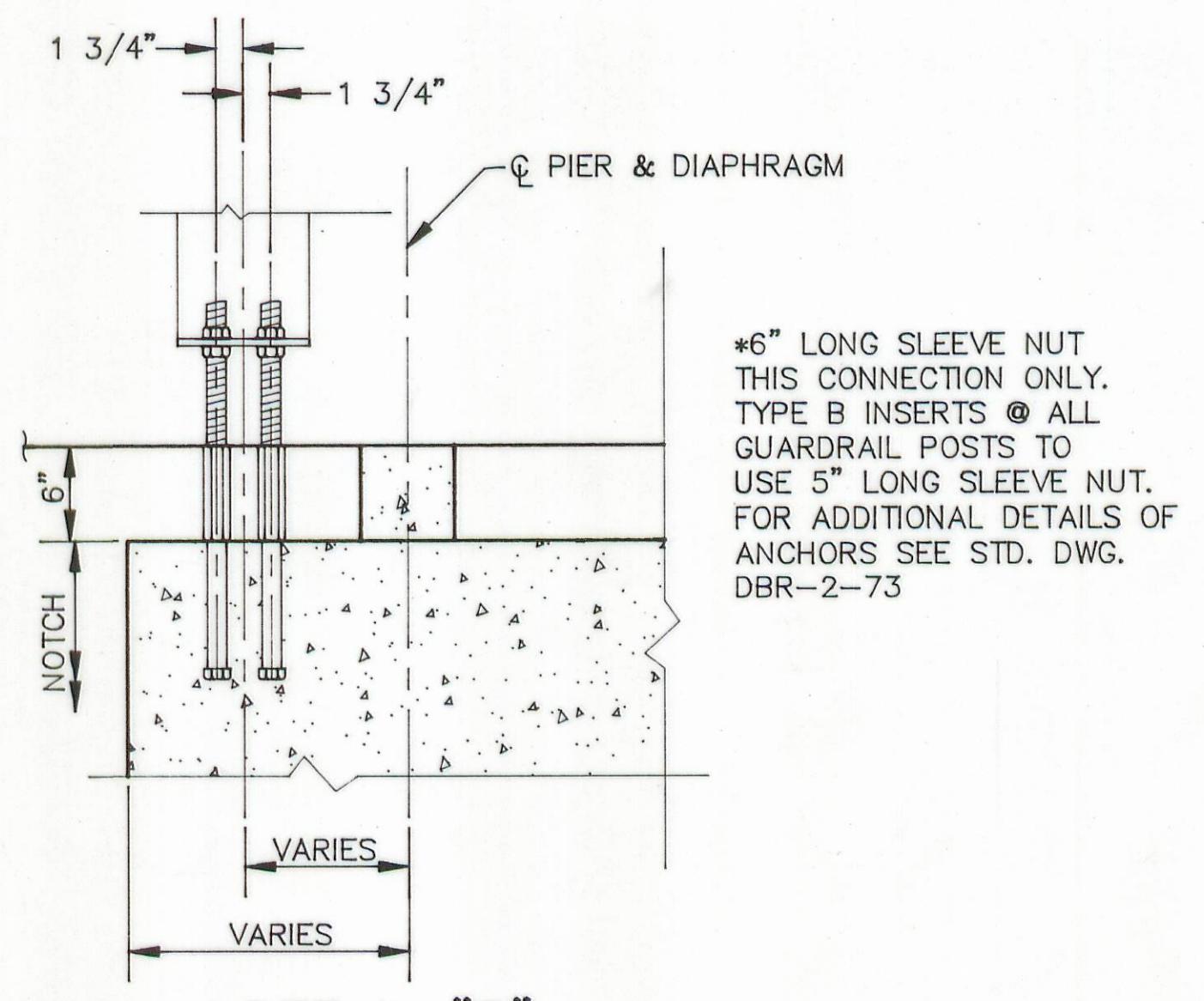
DETAIL "A"

DRIP STRIP

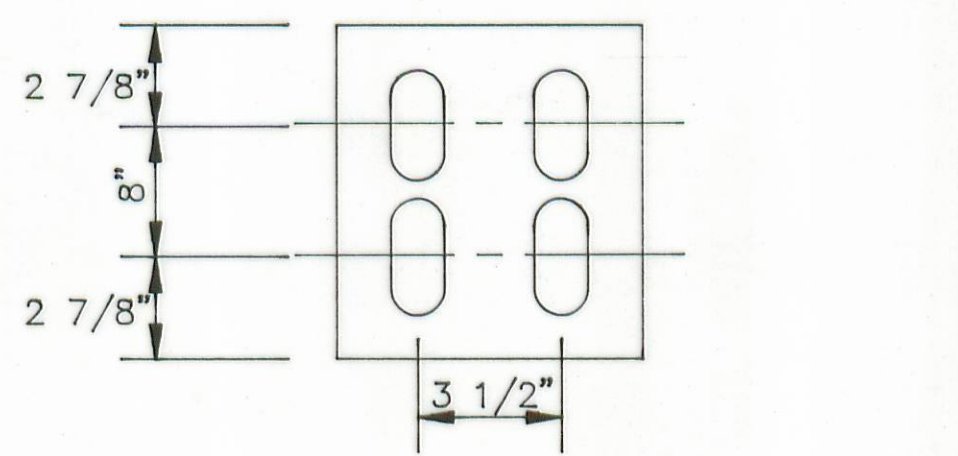
PRIOR TO APPLYING TYPE D WATERPROOFING, A BENT DRIP STRIP SHALL BE INSTALLED ALONG THE EDGES OF THE DECK AS SHOWN. THE STRIPS SHALL BE FASTENED @ 1'-6" C/C MAXIMUM WITH A 1 1/4" X 5/32" X 1/4" FLAT HEAD DRIVE PINS & WASHER (LENGTH X SHANK DIA. X HEAD DIA.) OR #10 GALVANIZED SCREWS & EXPANSION ANCHORS, SUBJECT TO THE APPROVAL OF THE ENGINEER. THE STRIPS SHALL BE PLACED THE FULL LENGTH OF THE DECK, ENDING @ THE FACE OF WINGWALL. WHERE SPLICES ARE REQUIRED, A 3" MINIMUM LAP SHALL BE USED WITH A FASTENER THROUGH THE LAP. STEEL FOR GALVANIZED STRIPS SHALL BE B" X 0.105" AND SHALL MEET THE REQUIREMENTS OF ASTM A568. GALVANIZING SHALL BE IN ACCORDANCE WITH ITEM 711.02. STAINLESS STEEL SHALL BE 20 GAUGE ASTM A167, TYPE 304, MILL FINISH. THE FINAL PAY QUANTITY SHALL BE THE ACTUAL OVERALL LENGTH OF THE DRIP STRIP. ALL LAPS AND ADDITIONAL STRIPS AT POSTS SHALL NOT BE MEASURED FOR PAYMENT. PAYMENT SHALL BE AT THE CONTRACT PRICE BID FOR ITEM SPECIAL, LIN. FT., STEEL DRIP STRIP, WHICH SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE ITEM.



TRANSVERSE SECTION



DETAIL "B"



SLOTTED HOLE DETAIL FOR PLATE ON RAIL POST

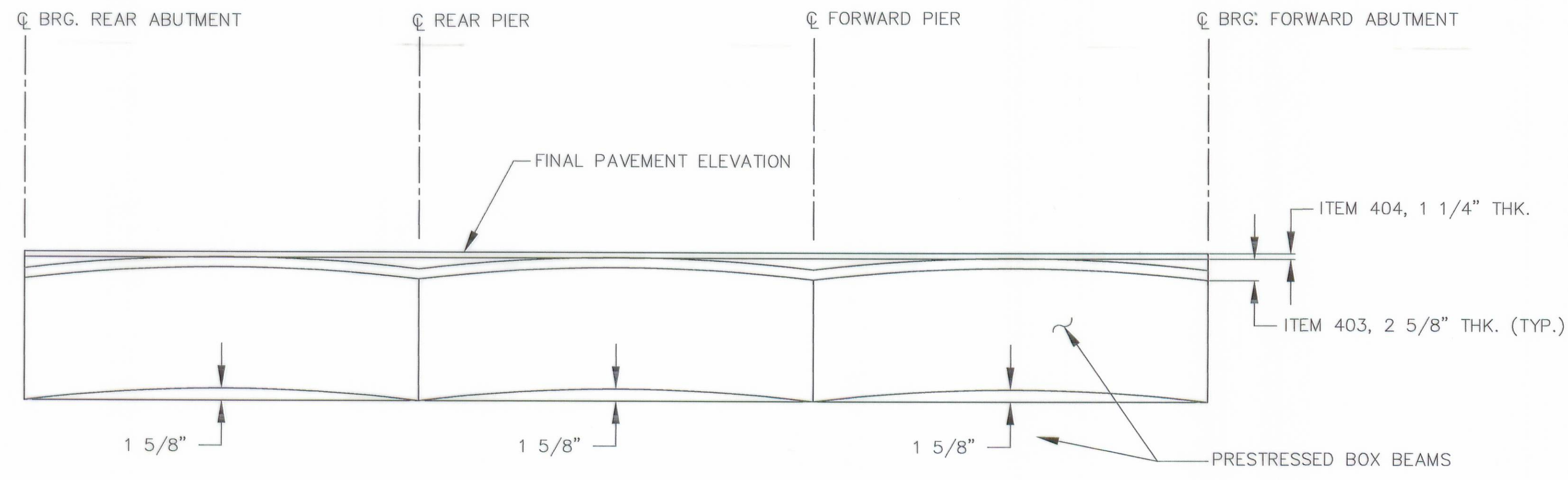
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13/15
SUPERSTRUCTURE DETAILS
BRIDGE NO. LOG-CR4-03.08
OVER GREAT MIAMI RIVER

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAI	RJS		RAK	TAI	10/93	01/94

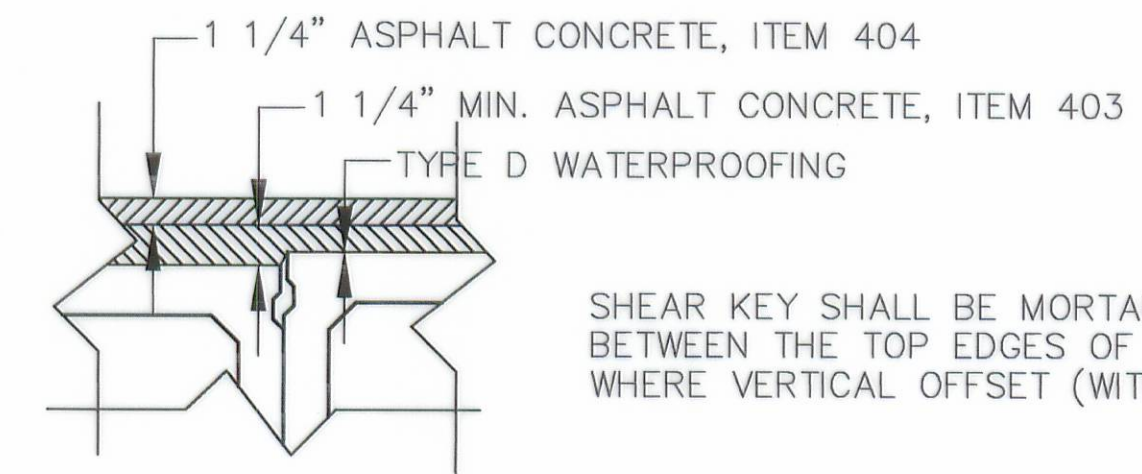
LOGAN/SHELBY COUNTIES



CAMBER DETAIL

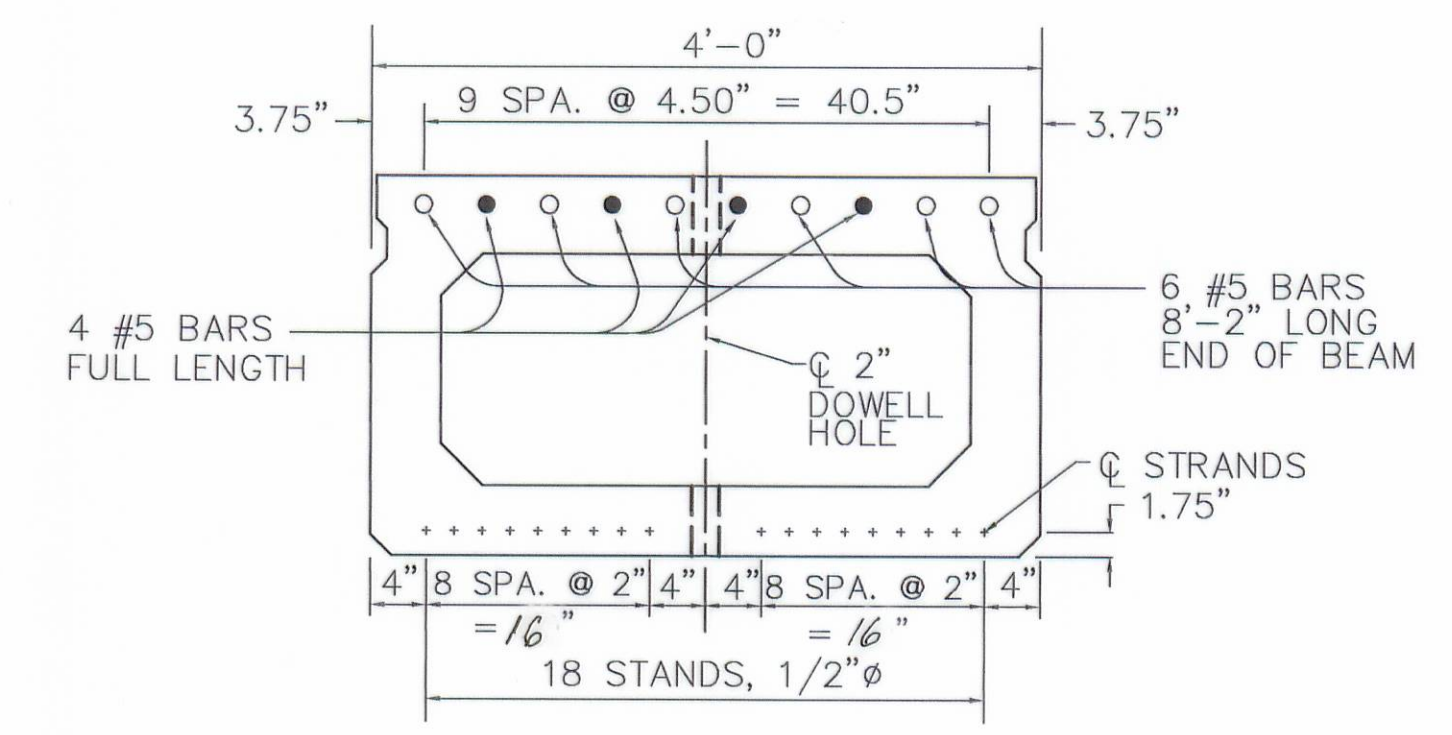
ASPHALT CONCRETE SURFACE COURSE SHALL CONSIST OF A VARIABLE THICKNESS OF 403 AND A 1 1/4" THICKNESS OF 404. THE 403 SHALL BE PLACED IN TWO OPERATIONS. THE FIRST COURSE SHALL BE 1 1/4" UNIFORM THICKNESS. THE SECOND COURSE SHALL BE FEATHERED TO PLACE THE SURFACE PARALLEL TO AND 1 1/4" BELOW FINAL PAVEMENT SURFACE ELEVATIONS.

CALCULATED CAMBER AT TIME OF PAVING, INCLUDING ALLOWANCE FOR CAMBER DUE TO CREEP, IS 1 3/8". CALCULATED DEFLECTION DUE TO WEIGHT OF SURFACE COURSE AND RAILING IS 1/8". NET FINAL CAMBER OF BEAMS IS 1 1/4". THIS IS 1 1/4" IN EXCESS OF THE AMOUNT REQUIRED TO PLACE THE TOP OF THE BEAM PARALLEL TO THE PROFILE GRADE. THIS EXCESS AMOUNT SHALL BE COMPENSATED FOR BY THICKENING THE 403 LEVELING COURSE FROM 1 1/4" AT CENTER OF SPANS TO 2 5/8" AT ENDS OF SPANS.



DETAIL "C"

SHEAR KEY SHALL BE MORTARED TO A FINISHED PLANE BETWEEN THE TOP EDGES OF THE ADJACENT BEAMS WHERE VERTICAL OFFSET (WITHIN TOLERANCE) OCCURS.



TYPICAL BEAM DETAIL, B27-48

THE FOLLOWING DETAILS FROM PSBD-1-81 APPLY TO THIS PROJECT:

- SHEET 1 OF 4: BEAM LIFTING INSERTS, WALL THICKENING AT GUARDRAIL ANCHORS, DETAILS AND REINFORCEMENT OF BEAM ENDS.
- SHEET 2 OF 4: TYPICAL PLANS OF DIAPHRAGMS AND TRANSVERSE TIE RODS, END DETAILS OF TRANSVERSE TIE ROD ANCHORAGE, NORMAL CROWN TREATMENT AT ϕ ROADWAY, BEAM DIMENSIONAL TOLERANCES.
- SHEET 3 OF 4: 48" WIDE NON-COMPOSITE BEAMS.
- SHEET 4 OF 4: PARTIAL PLAN OF BEAM CONNECTION OVER PIER.

THE FOLLOWING NOTES FROM PSBD-1-81 APPLY TO THIS PROJECT:

- SHEET 1 OF 4: TRANSVERSE TIE RODS, PRESTRESSING STRANDS, GALVANIZING, ANCHOR DOWELS, BEARING PADS, NOTCHES, END OF BEAMS, AND AS REQUIRED TO SUPPLEMENT APPLICABLE DETAILS.
- SHEET 2 OF 4: AS REQUIRED TO SUPPLEMENT APPLICABLE DETAILS.
- SHEET 3 OF 4: AS REQUIRED TO SUPPLEMENT APPLICABLE DETAILS.
- SHEET 4 OF 4: AS REQUIRED TO SUPPLEMENT APPLICABLE DETAILS.

SUPERSTRUCTURE NOTES

PRESTRESSING STRANDS: 1/2" ϕ , 270k, SEVEN-WIRE STRESS STRANDS. $A_s = 0.163$ sq. in.
 INITIAL TENSION: 28,000 LBS. PER STRAND.
 TENSION AT RELEASE: 26,000 LBS. PER STRAND.
 FINAL TENSION AFTER ALL LOSSES: 21,700 LBS. PER STRAND.
 MINIMUM CONCRETE STRENGTH @ 28 DAYS: 5,500 p.s.i..
 MINIMUM CONCRETE STRENGTH @ RELEASE: 4,000 p.s.i..

AT THE CONTRACTOR'S OPTION, BEAM WIDTHS MAY BE VARIED PROVIDED THE OVER ALL BRIDGE WIDTH REMAINS AS PER PLAN. IF A CHANGE IN WIDTH ARRANGEMENT IS ELECTED, BEARINGS SHALL BE REDESIGNED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER. ANY CHANGE AS DESCRIBED ABOVE SHALL BE AT NO EXTRA COST TO THE COUNTY AND MUST BE SUBMITTED TO THE COUNTY ENGINEER FOR APPROVAL.

sti **DYNOTEC, INC.**
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 2531 TILLER LANE COLUMBUS, OHIO 43231
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SUPERSTRUCTURE DETAILS
 BRIDGE NO. LOG-CR4-0308
 OVER GREAT MIAMI RIVER
 LOGAN/SHELBY COUNTY

DESIGNED TAI	DRAWN RJS	CHECKED RAK	REVIEWED TAI	REVISED 1/24
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