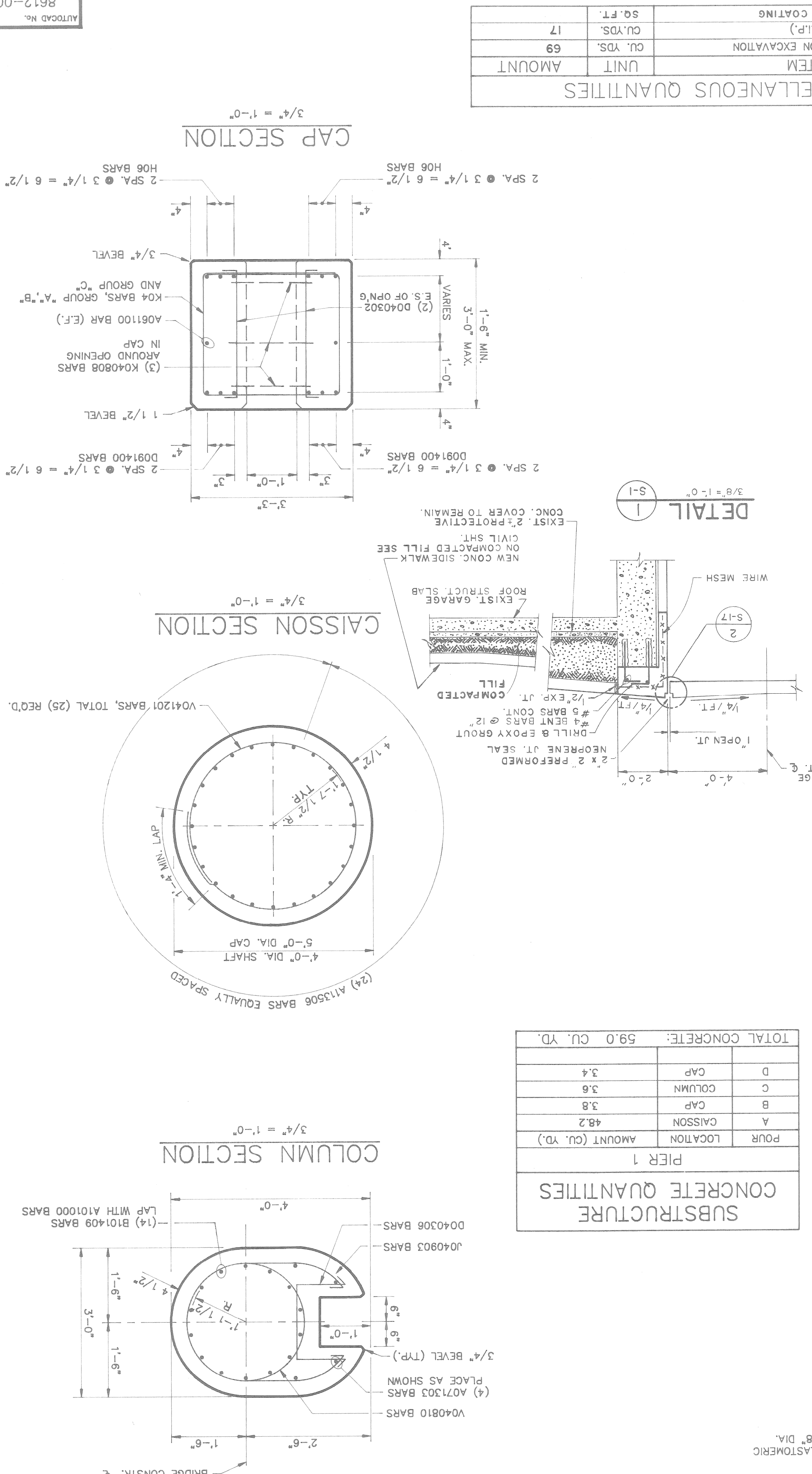


ITEM	UNIT	AMOUNT
UNCLASSIFIED FOUNDATION EXCAVATION	CU. YDS.	69
STRUCTURE BACKFILL (C.I.P.)	CU. YDS.	17
PROTECTIVE SEALANT COATING	SQ. FT.	

MISCELLANEOUS QUANTITIES

POUR	LOCATION	AMOUNT (CU. YD.)
A	CAISSON	48.2
B	CAP	3.8
C	COLUMN	3.6
D	CAP	3.4
TOTAL CONCRETE:		59.0 CU. YD.

PIER 1
SUBSTRUCTURE
CONCRETE QUANTITIES



SHEET No. S-1

PROJECT No. 8612

CHECKED BY: B.M.M.

DRAWN BY: K.C.H./S.O.

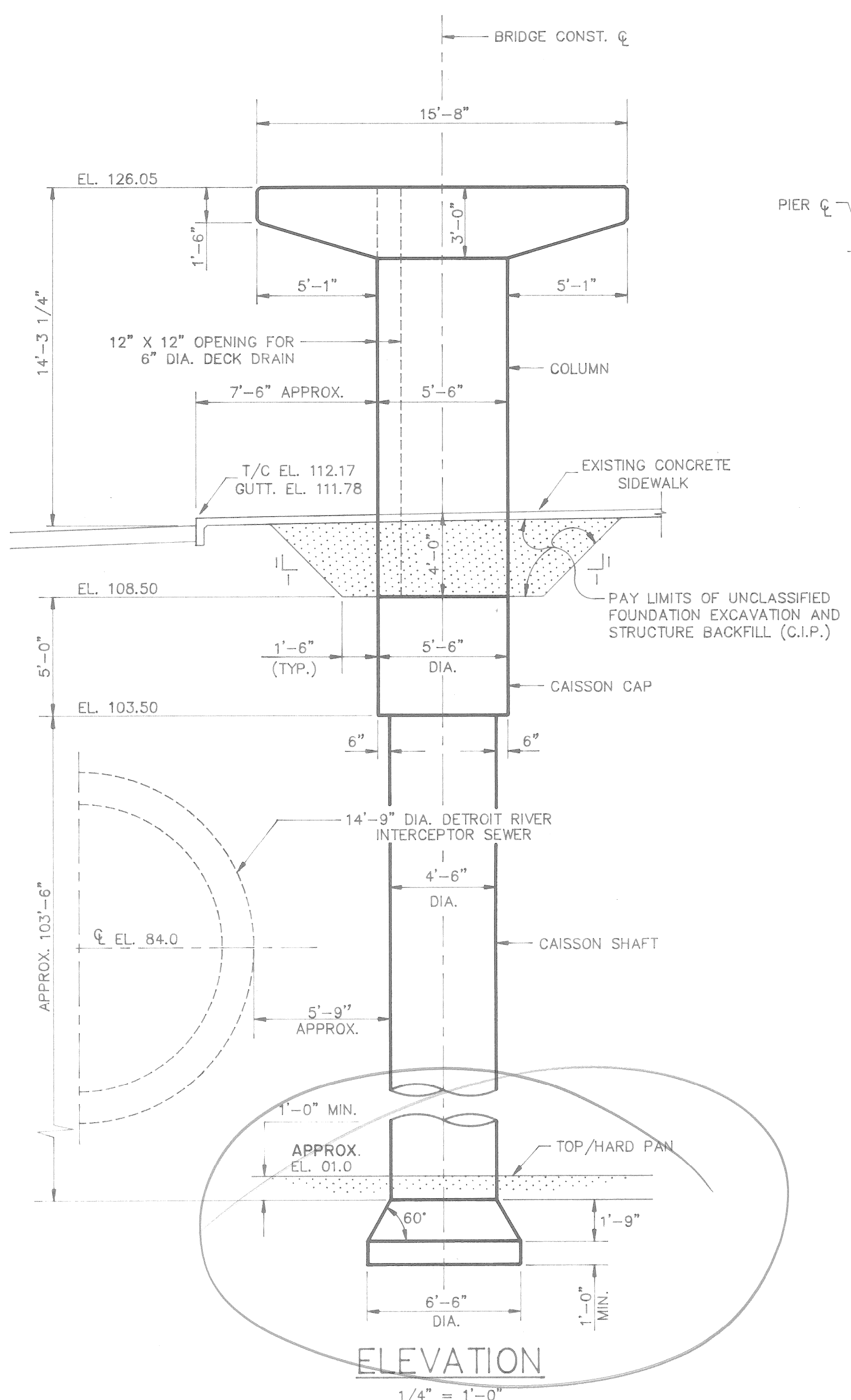
DESIGN BY: MADISON MADISON INTERNATIONAL OF MICHIGAN

Engineers, Architects, Planners
1420 Washington Blvd.
Detroit, Michigan 48226

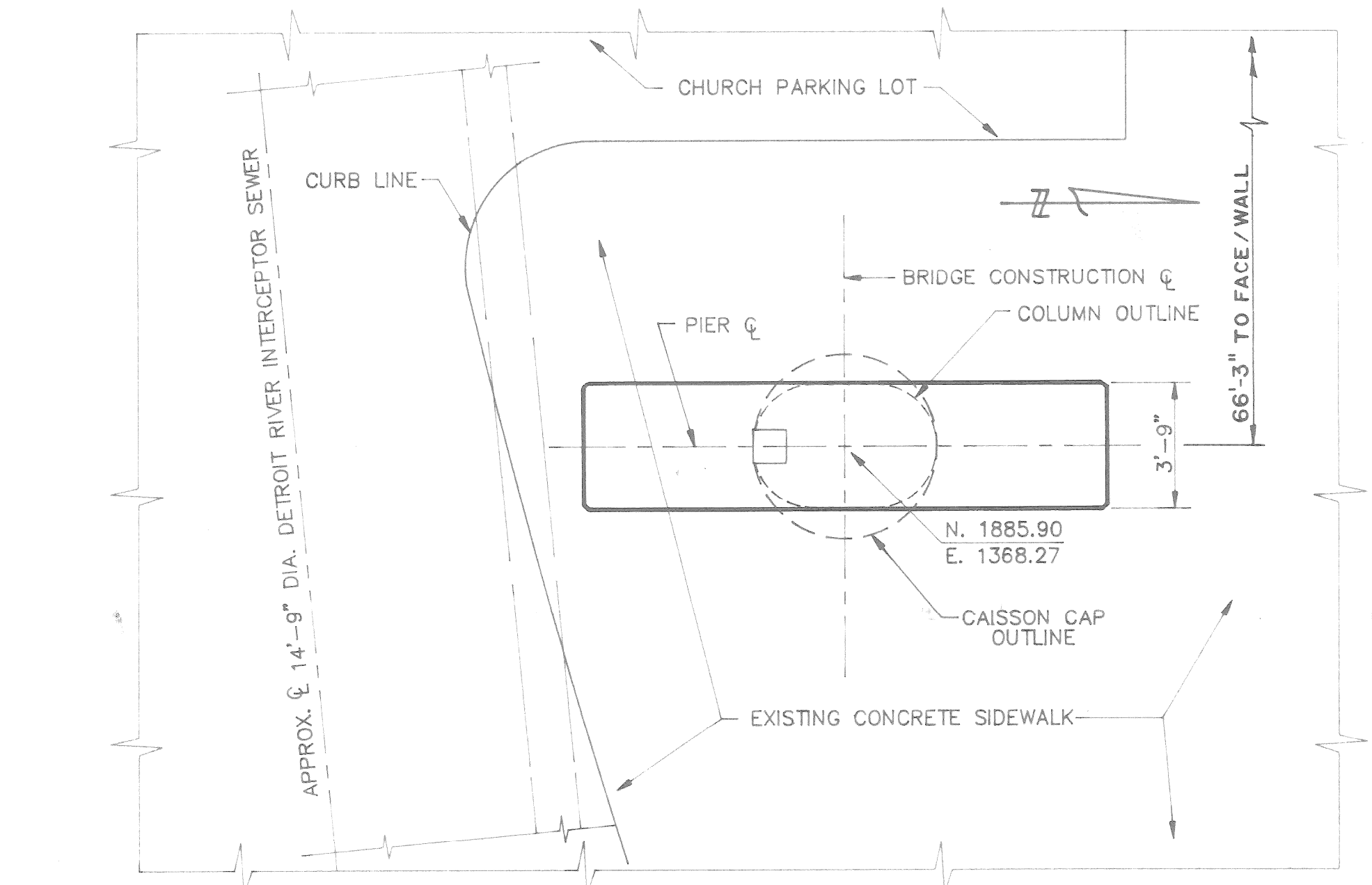
PROJECT: RANDOLPH STREET PEDESTRIAN BRIDGE

SHEET TITLE: PIER 1 DETAILS

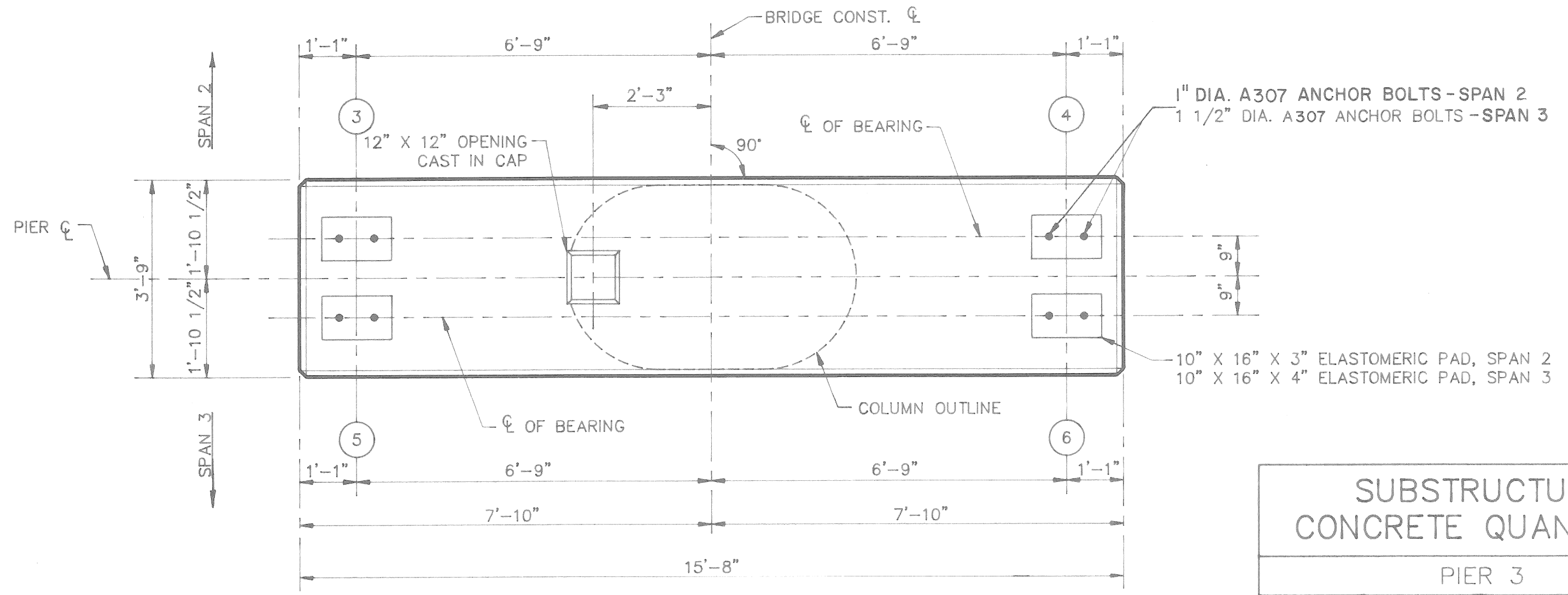
AUTOCAD No. 8612-001



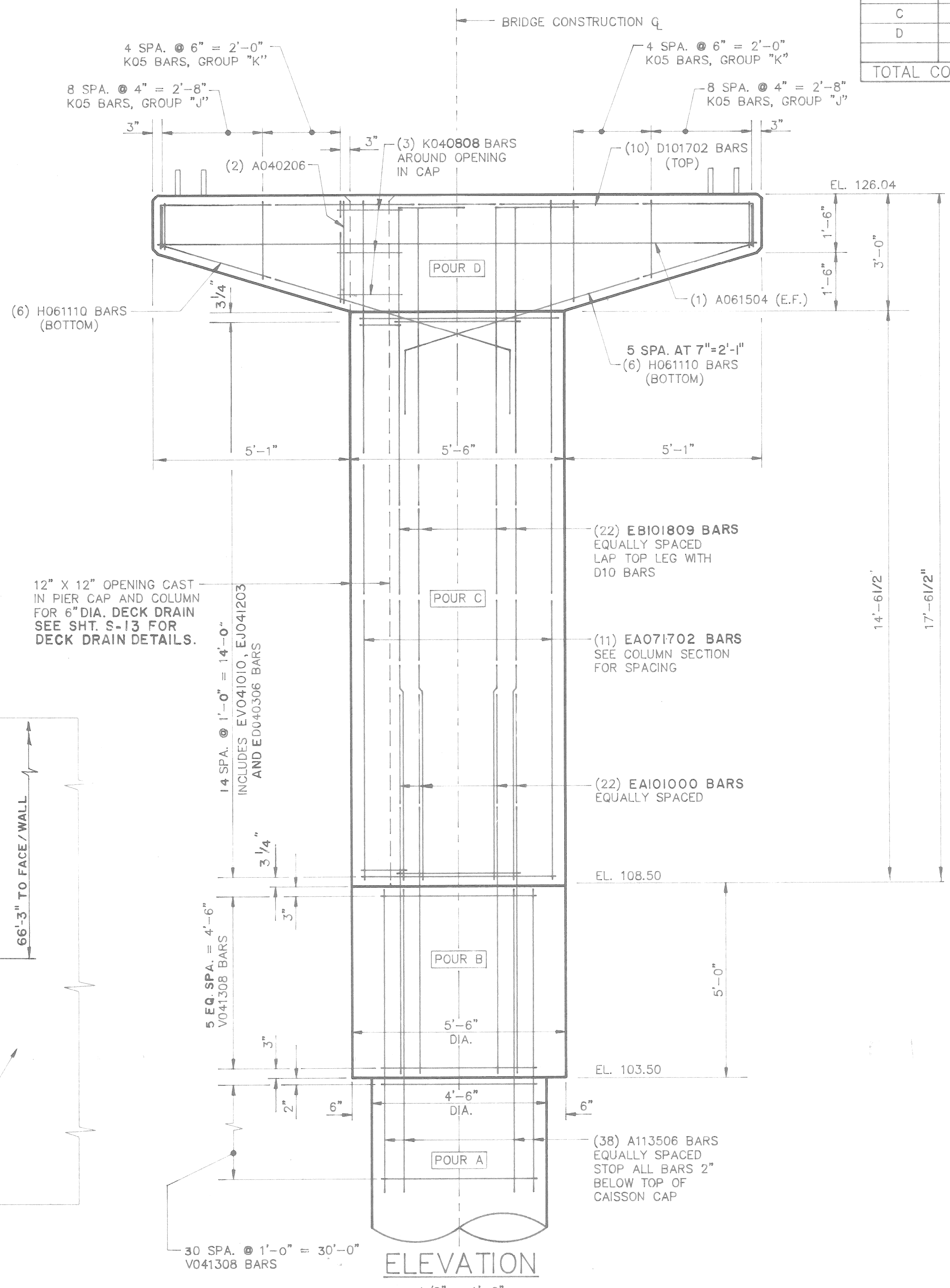
ELEVATION
1/4" = 1'-0"



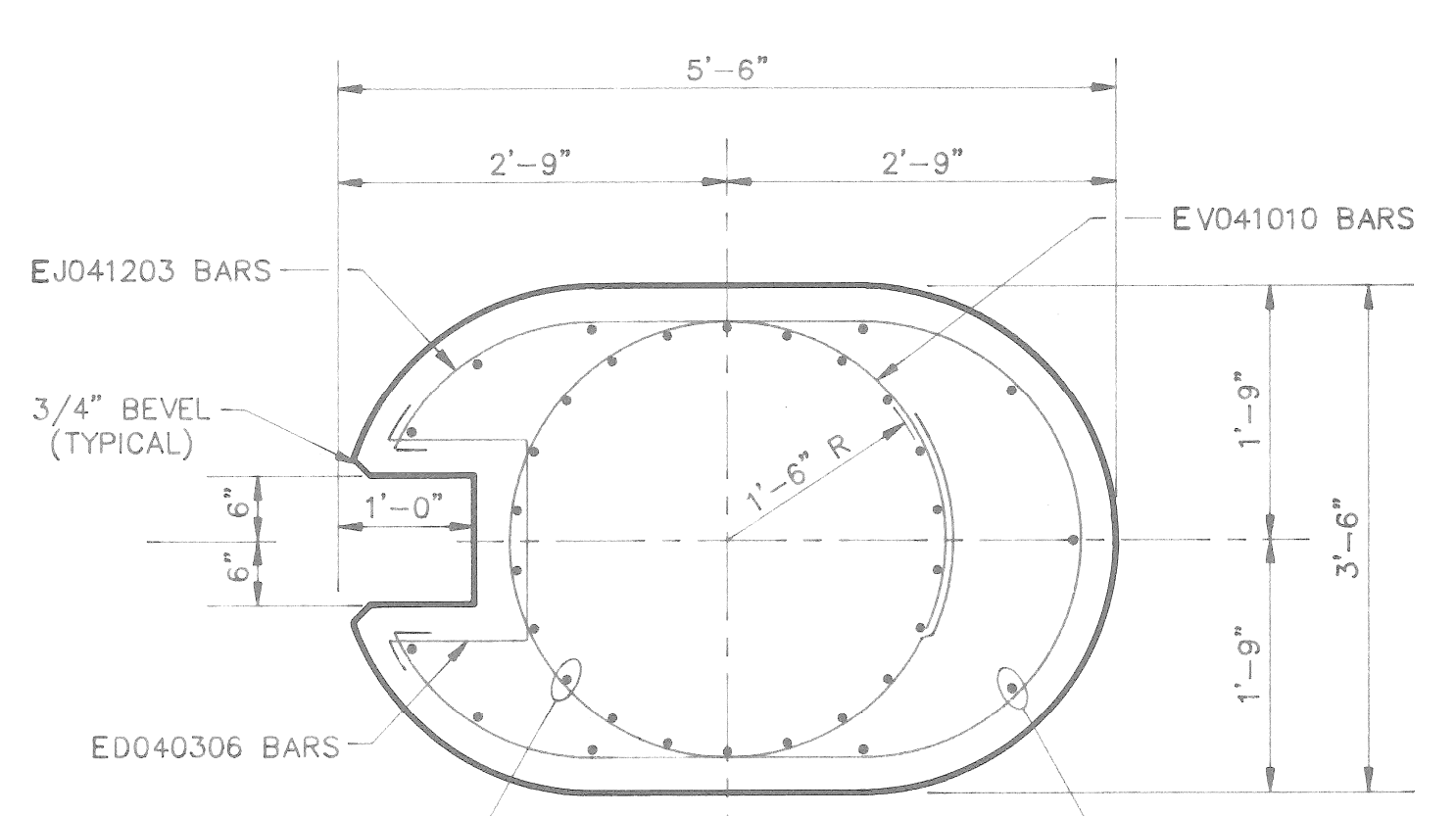
PLAN
1/4" = 1'-0"



PLAN OF CAP
1/2" = 1'-0"



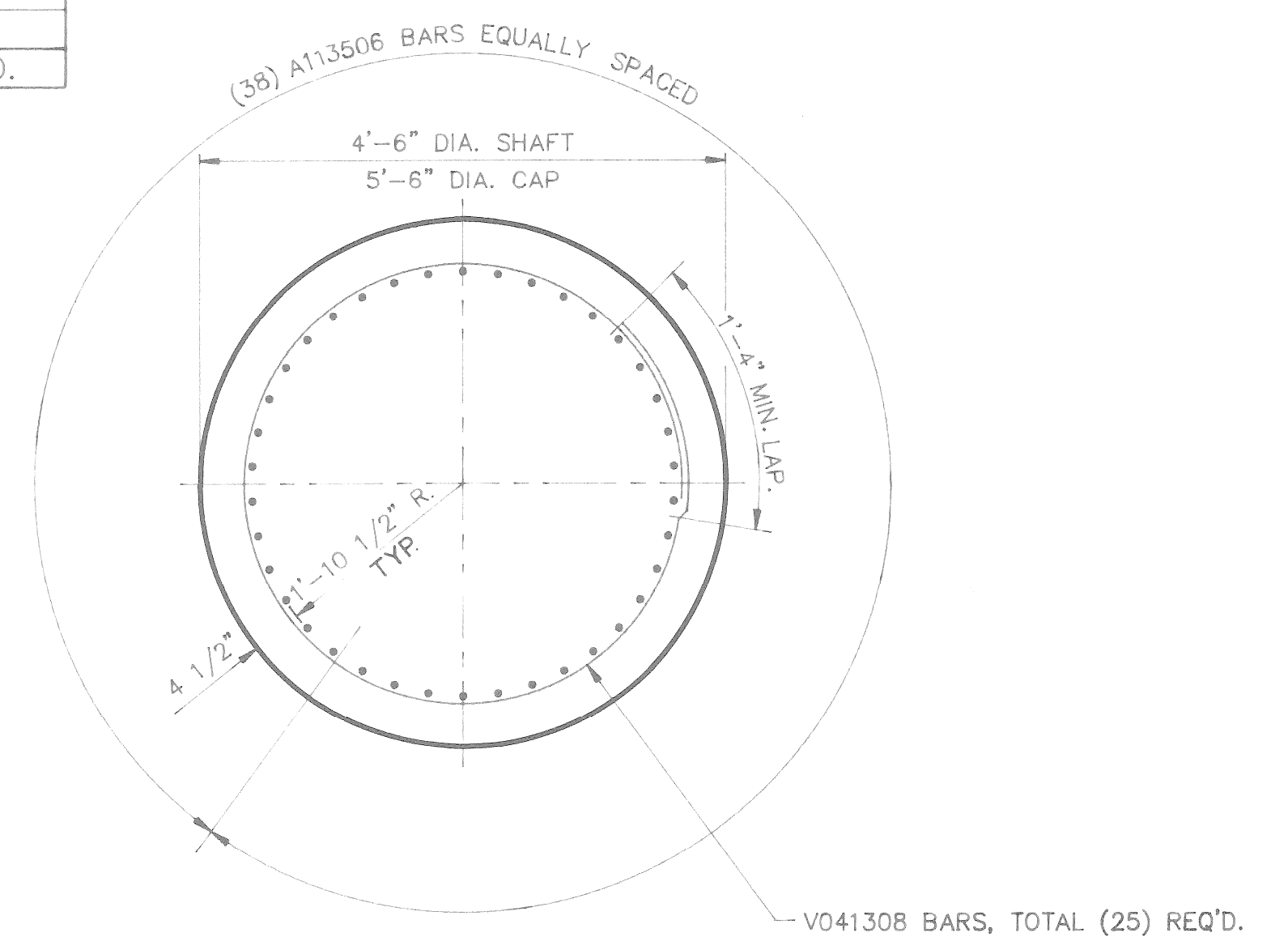
ELEVATION
1/2" = 1'-0"



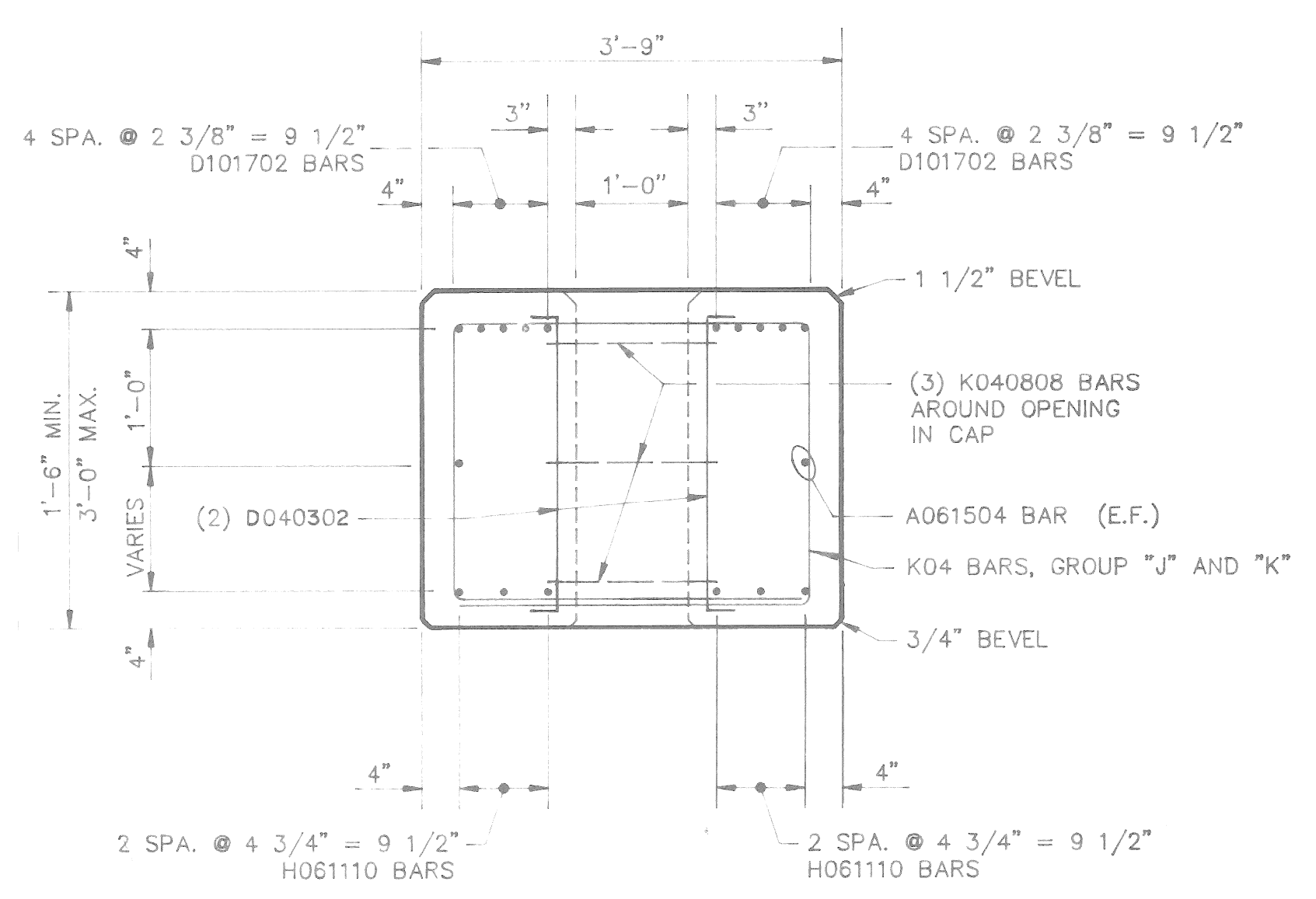
COLUMN SECTION
3/4" = 1'-0"

SUBSTRUCTURE CONCRETE QUANTITIES

PIER 3		
POUR	LOCATION	AMOUNT (CU. YD.)
A	CAISSON	64.0
B	CAP	4.40
C	COLUMN	8.50
D	CAP	5.40
TOTAL CONCRETE:		82.30 CU. YD.



CAISSON SECTION
3/4" = 1'-0"



CAP SECTION
3/4" = 1'-0"

MISCELLANEOUS QUANTITIES

ITEM	UNIT	AMOUNT
UNCLASSIFIED FOUNDATION EXCAVATION	CU. YDS.	90.0
STRUCTURE BACKFILL (C.I.P.)	CU. YDS.	22.0
PROTECTIVE SEALANT COATING	SQ. FT.	

PROJECT: RANDOLPH STREET PEDESTRIAN BRIDGE
SHEET TITLE: PIER 3 DETAILS

MADISON MADISON INTERNATIONAL OF MICHIGAN
Engineers, Architects, Planners
1420 Washington Blvd.
Detroit, Michigan 48226

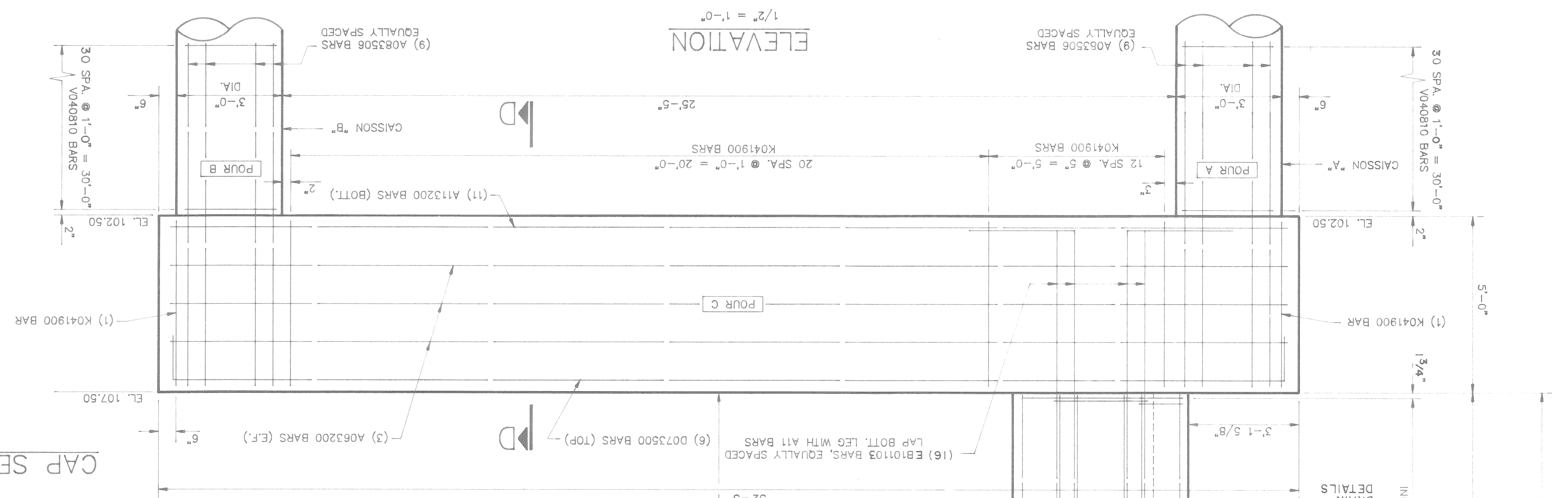
DESIGN BY: K.C.H./S.O.
DRAWN BY: B.M.M.
CHECKED BY:

PROJECT No. 8612
SHEET No. S-3

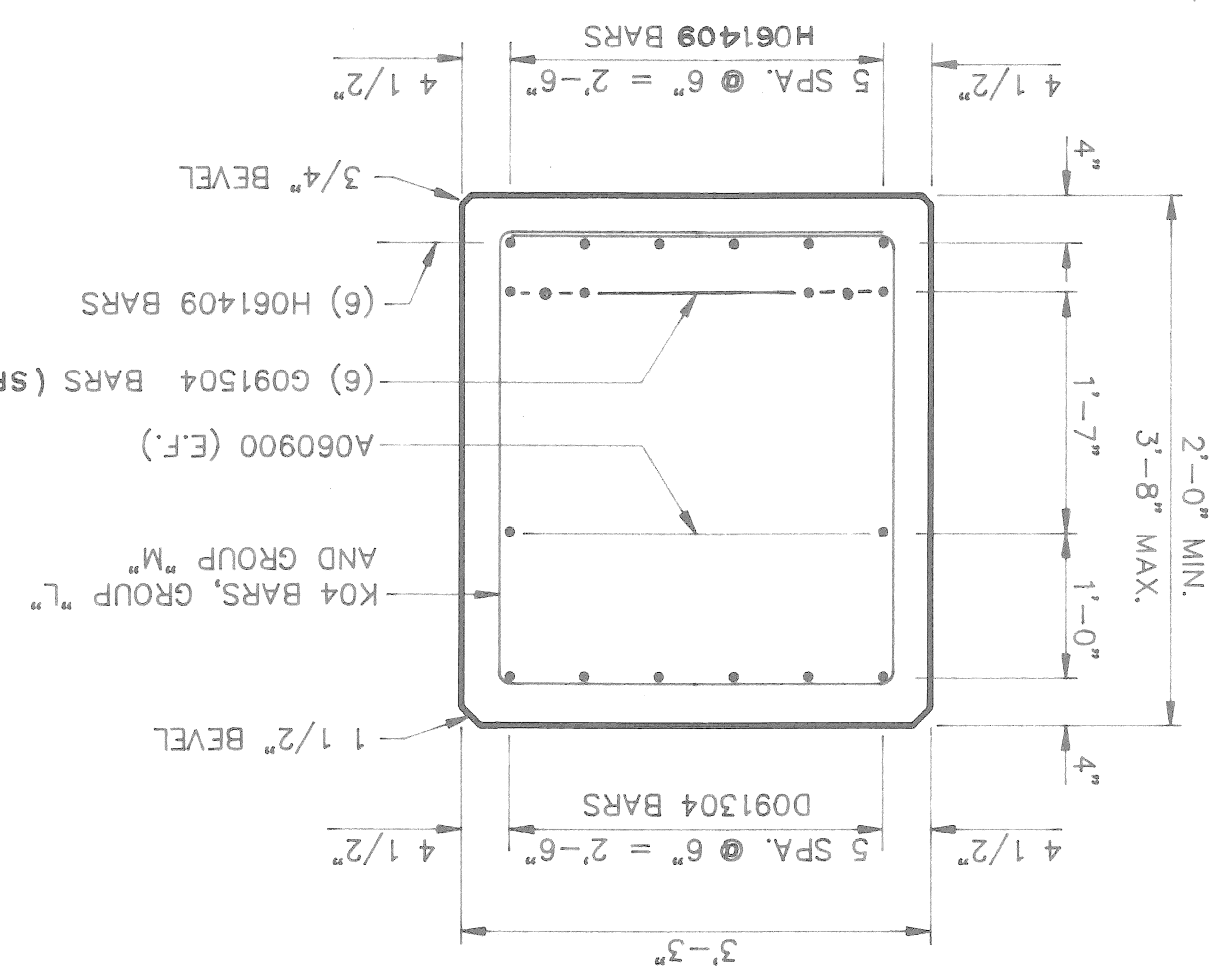
AUTOCAD No. 8612-003

SUBSTRUCTURE		PIER 4	
POUR	LOCATION	AMOUNT (CU. YD.)	
A	CAISSON "A"	29.0	
B	CAISSON "B"	27.0	
C	CAP	24.0	
D	COLUMN	6.0	
E	CAP	7.2	
TOTAL CONCRETE:		93.2	CU. YD.

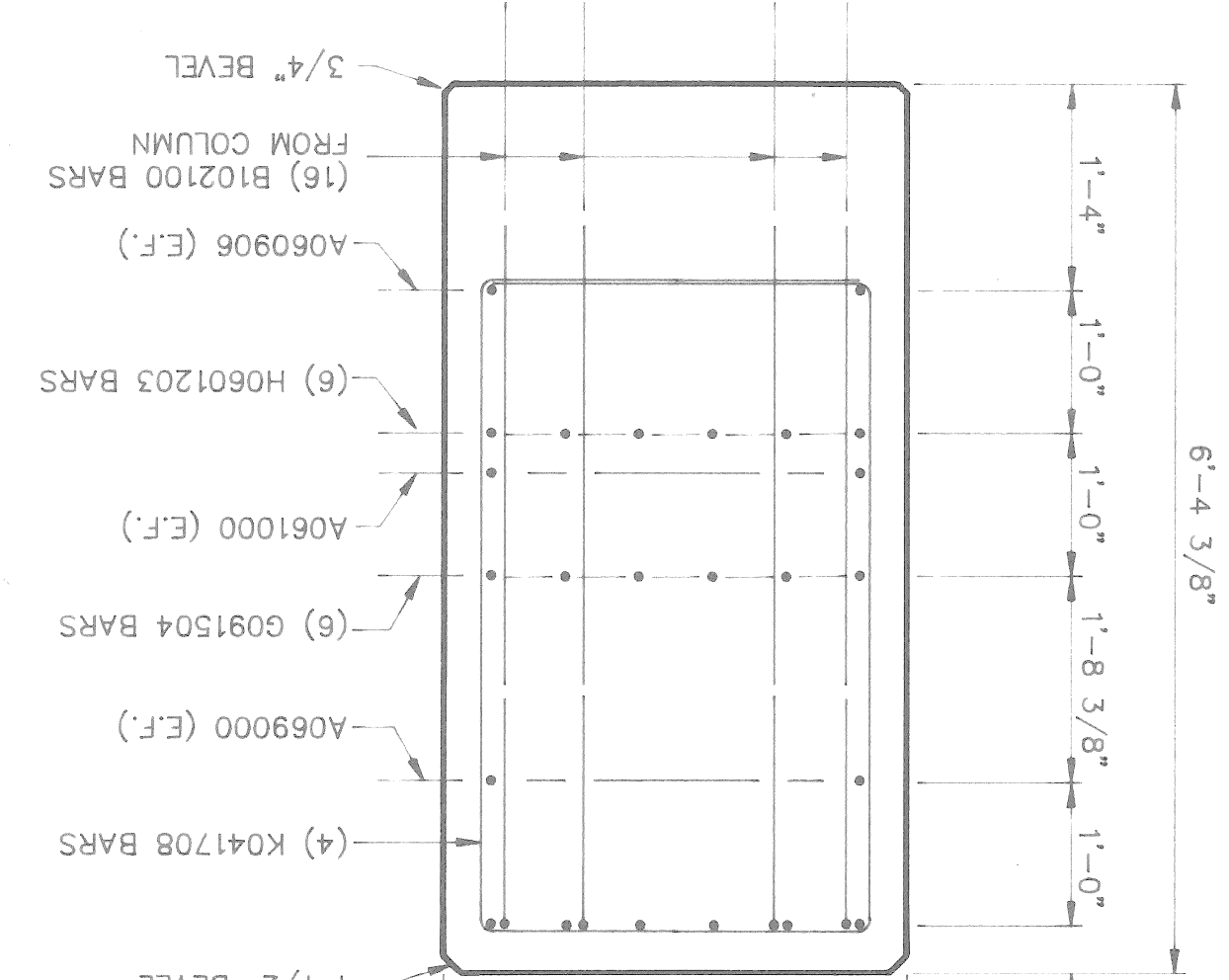
MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
UNCLASSIFIED FOUNDATION EXCAVATION	CU. YDS.	106
STRUCTURE BACKFILL (CL.F.)	CU. YDS.	26
TEMPORARY STEEL SHEET PILING	SQ. FT.	520



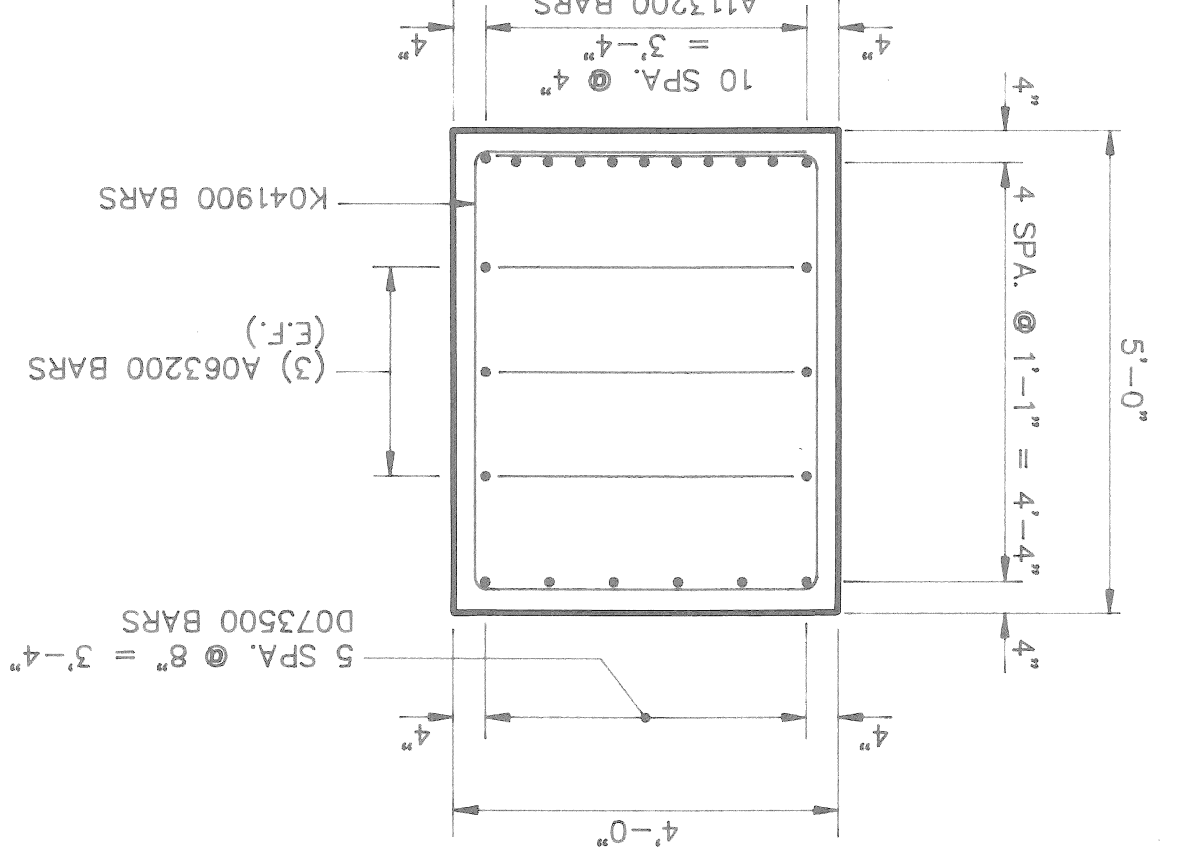
CAP SECTION C-C



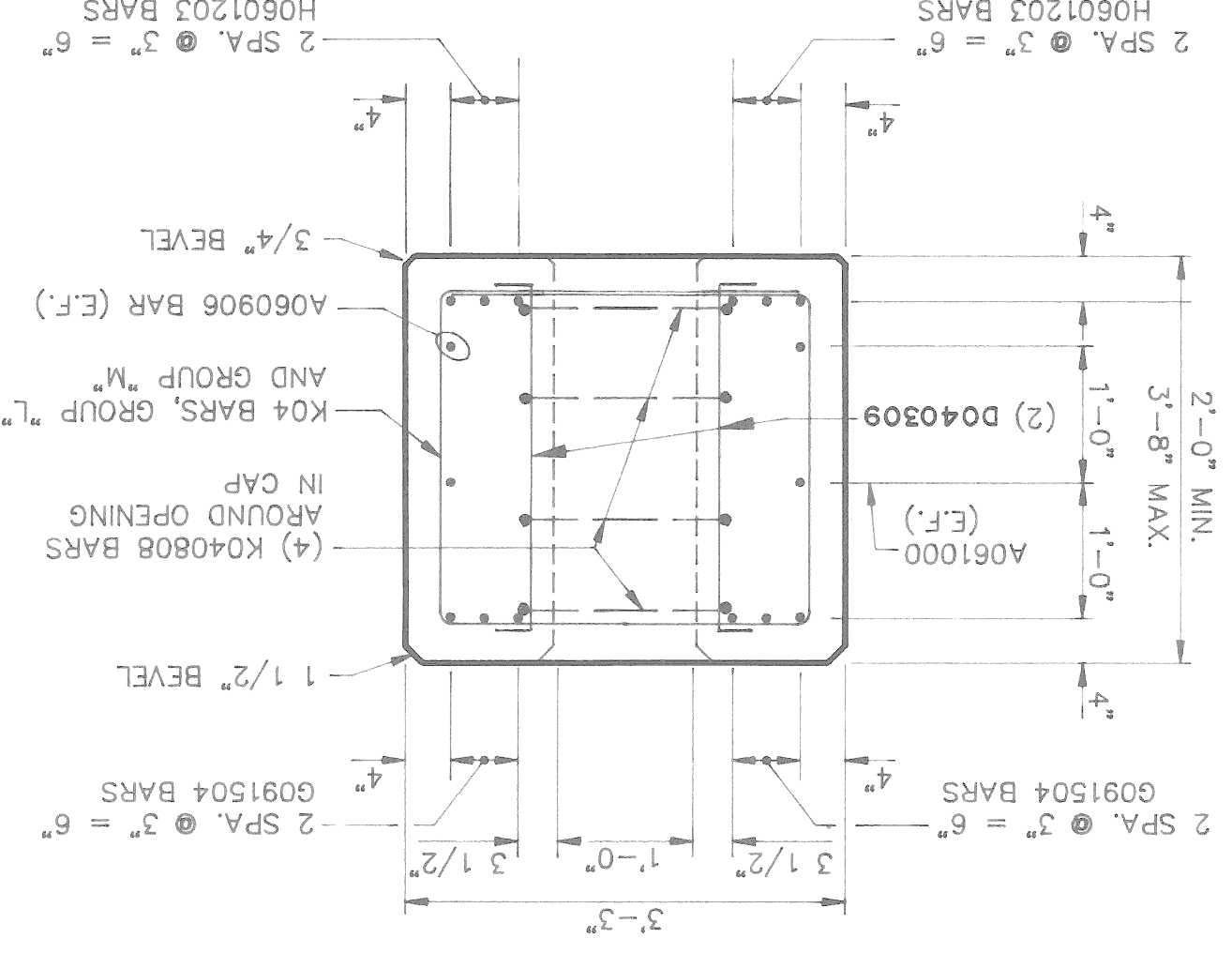
CAP SECTION B-B



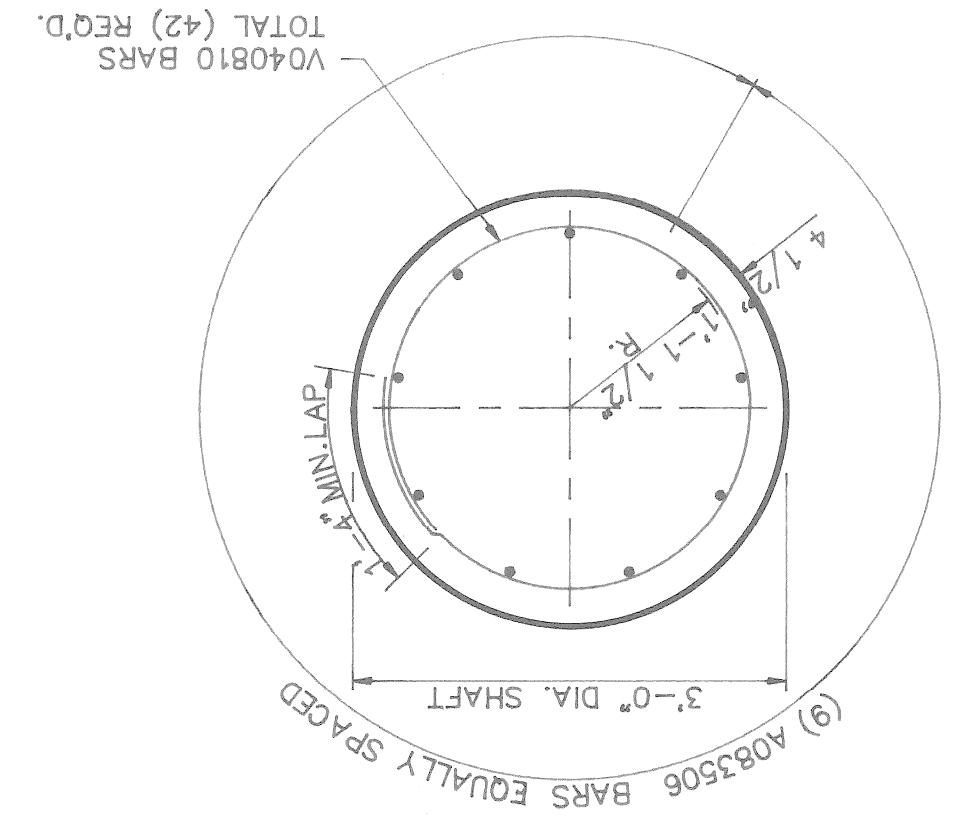
CAISSON CAP SECTION D-D



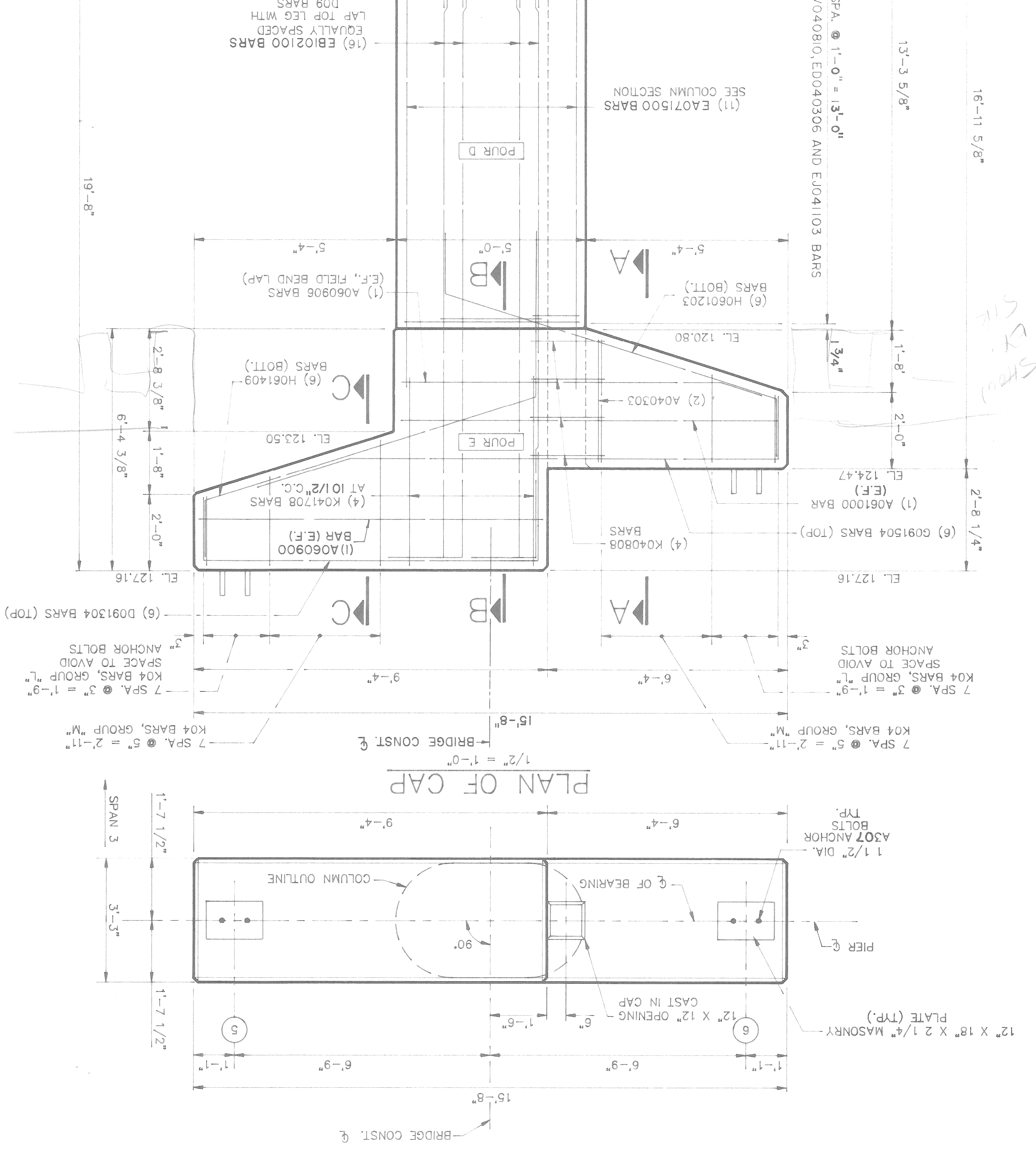
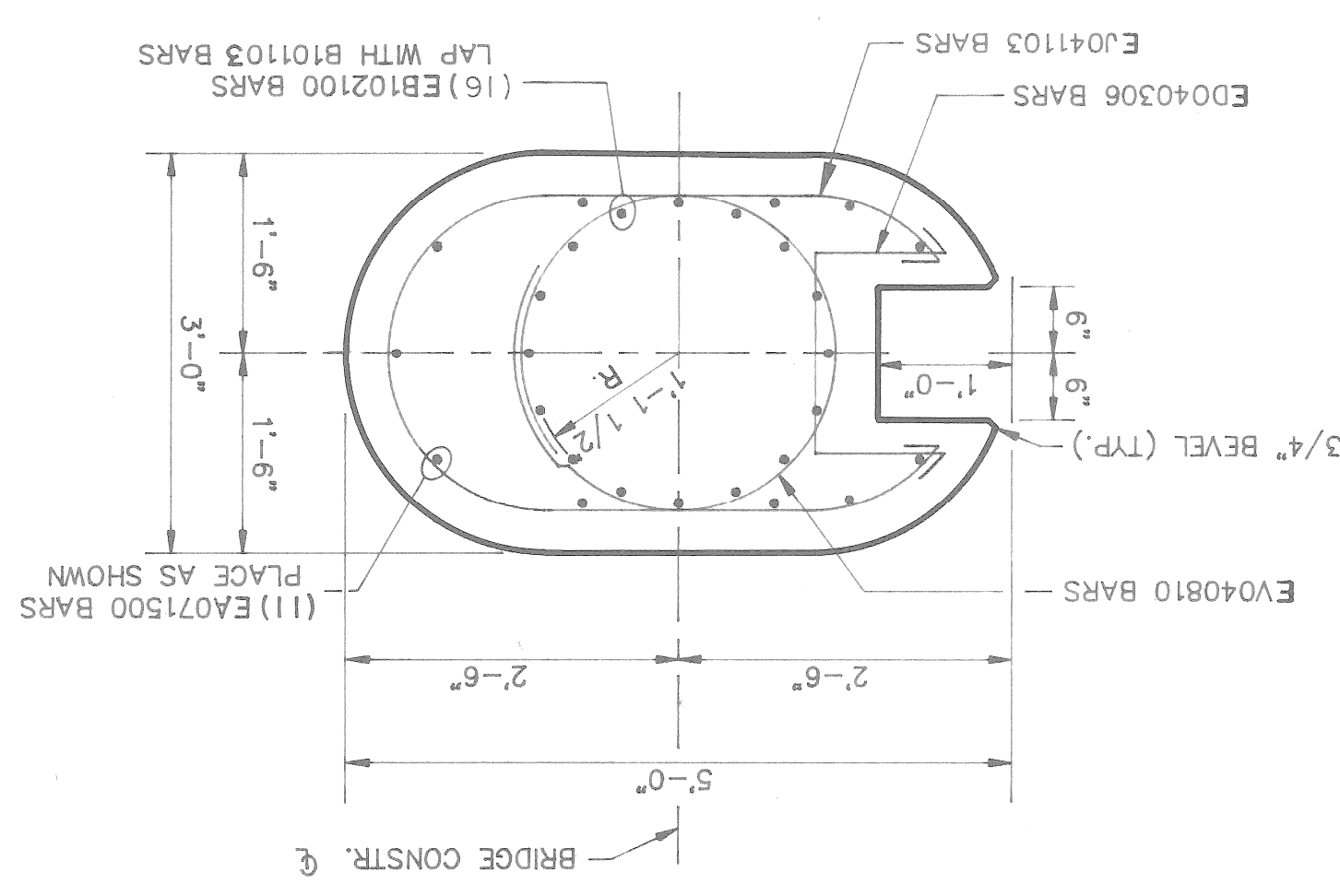
CAP SECTION A-A



CAISSON SECTION



COLUMN SECTION



SEE SHEET S-13 FOR DECK DRAIN DETAILS
 INCLUDES EVO40810, EDO40306 AND EJO41103 BARS

12" X 12" OPENING CAST IN PIER CAP AND COLUMN FOR 6" DIA. DECK DRAIN
 SEE SHT. S-13 FOR DECK DRAIN DETAILS

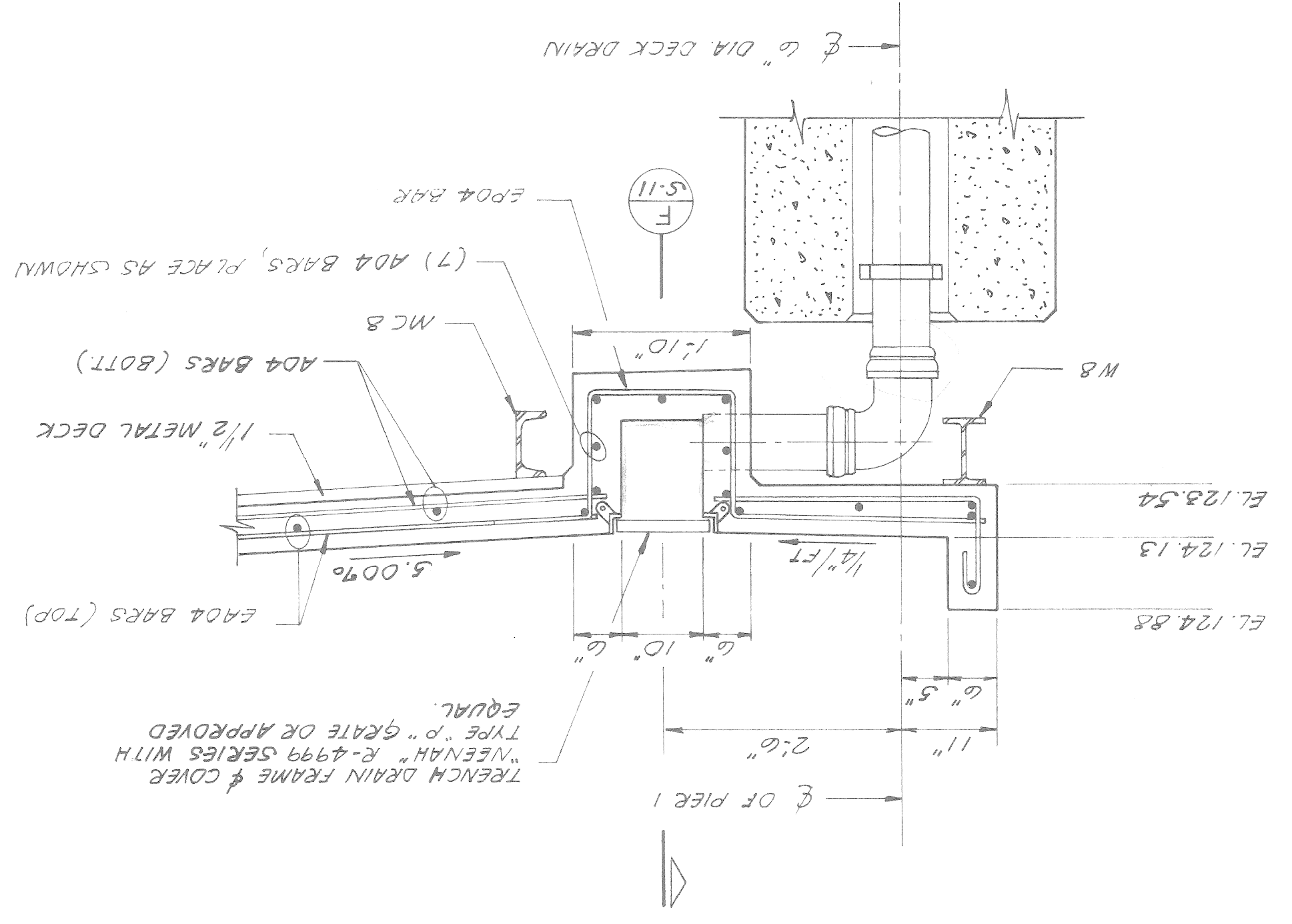
12" X 18" X 2 1/4" MASONRY PLATE (TYP.)

S-12
SHEET NO.
8612
PROJECT NO.
DATE
CHECKED BY
DRAWN BY
DESIGN BY

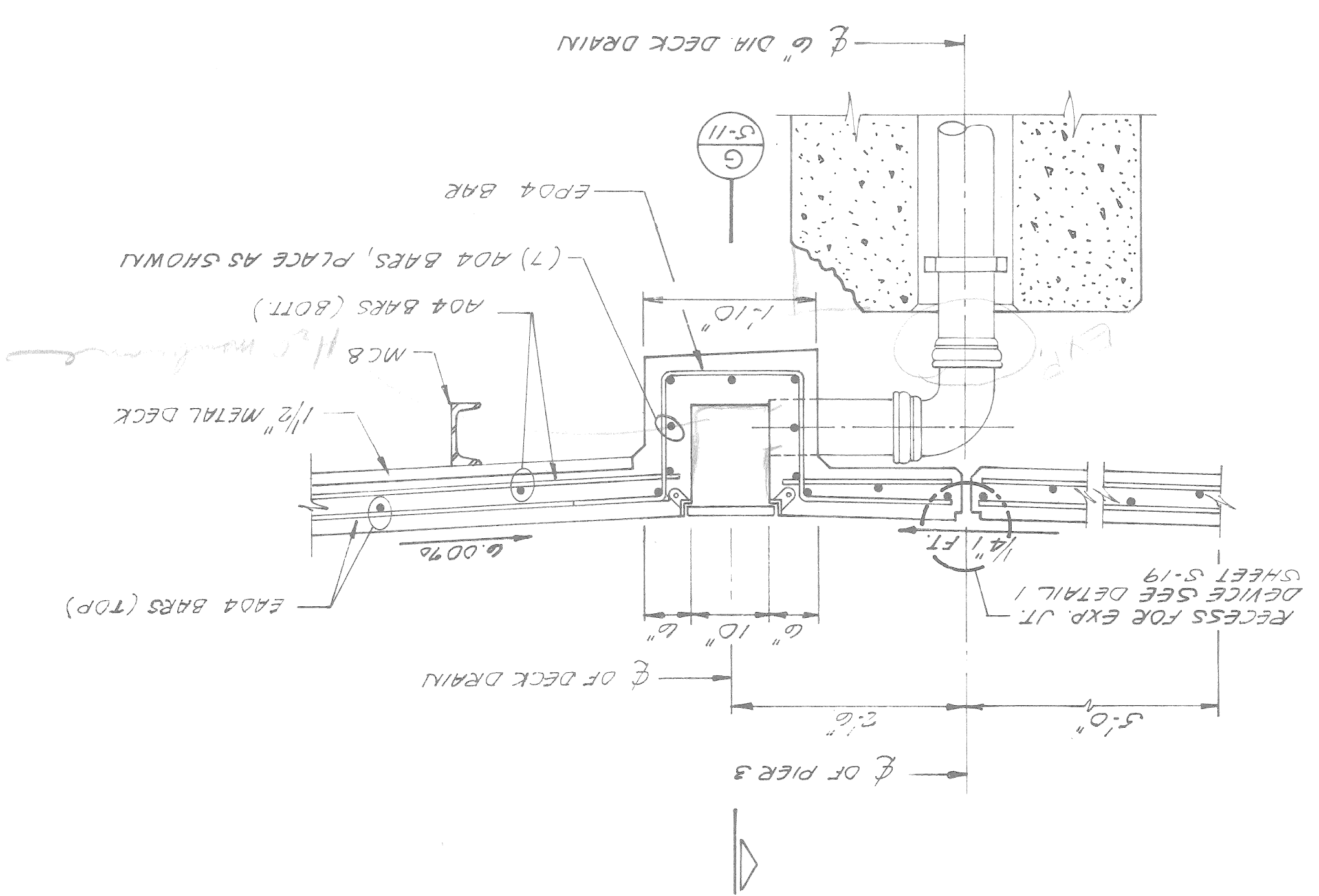
ENGINEERS, ARCHITECTS, PLANNERS
1420 WASHINGTON BLVD.
DETROIT, MICHIGAN 48226

Project
Sheet Title
RANDOLPH STREET
PEDESTRIAN BRIDGE
STRUCTURAL STEEL DETAILS

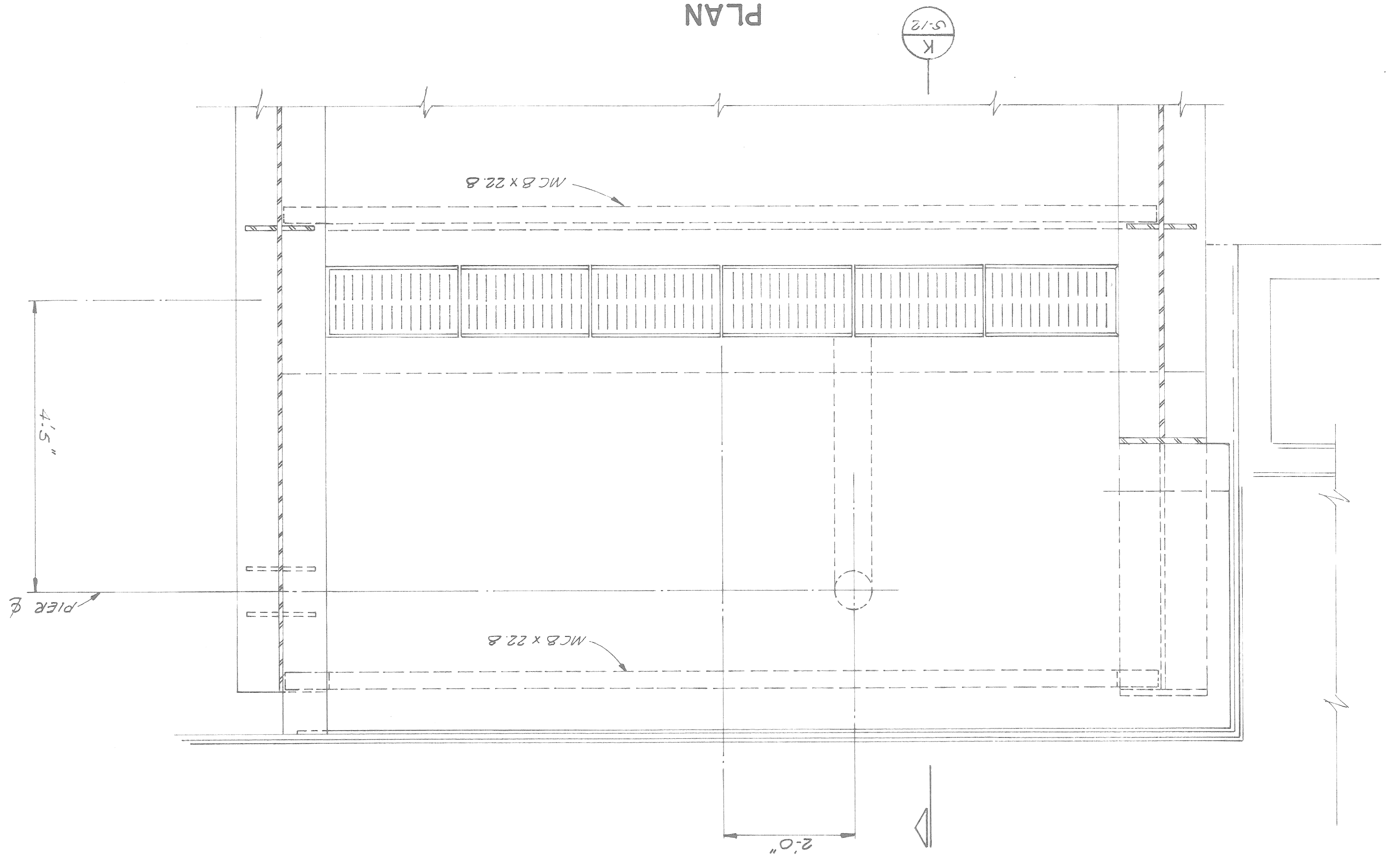
SECTION H
SCALE 3/4" = 1'-0"



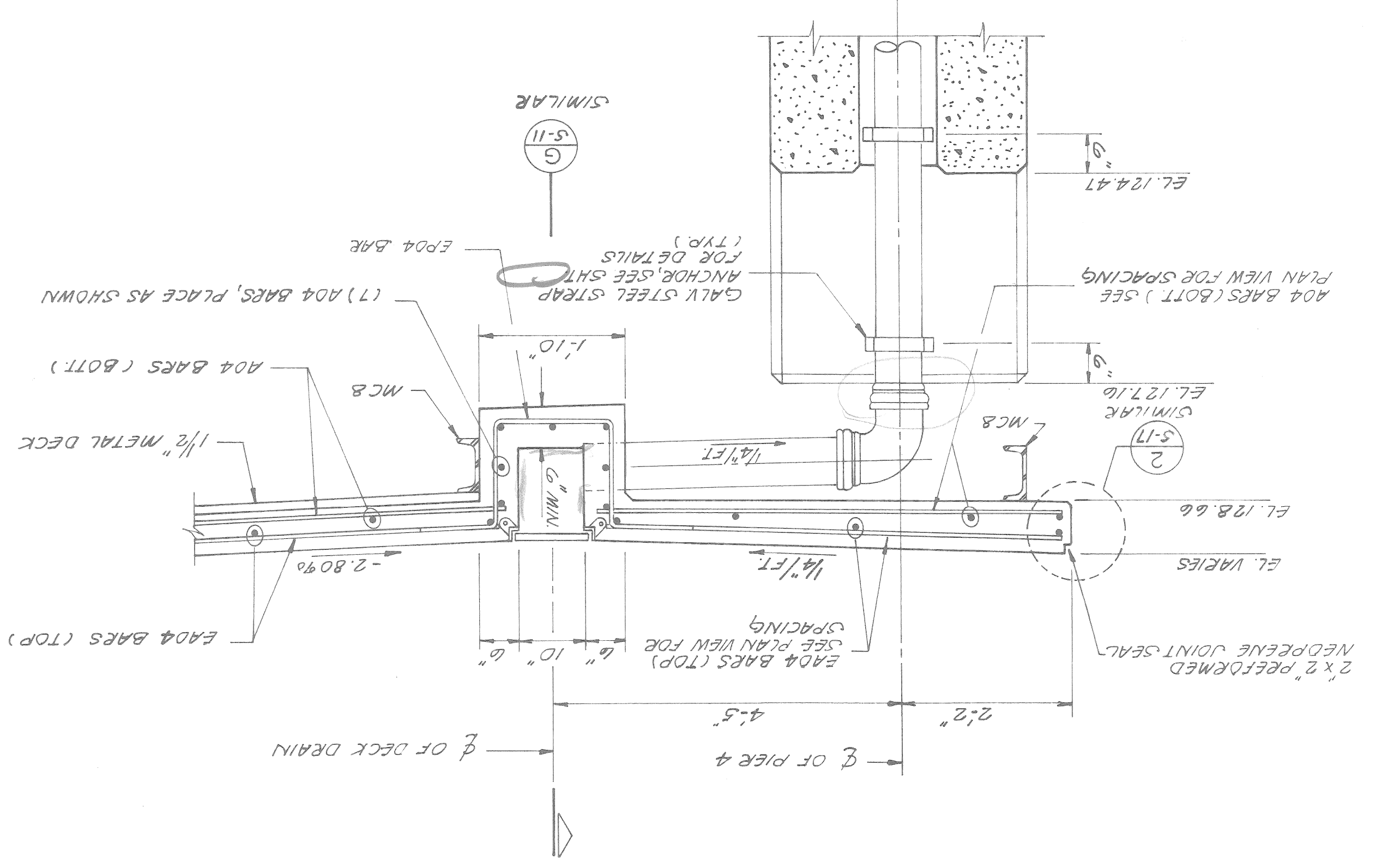
SECTION J
SCALE 3/4" = 1'-0"



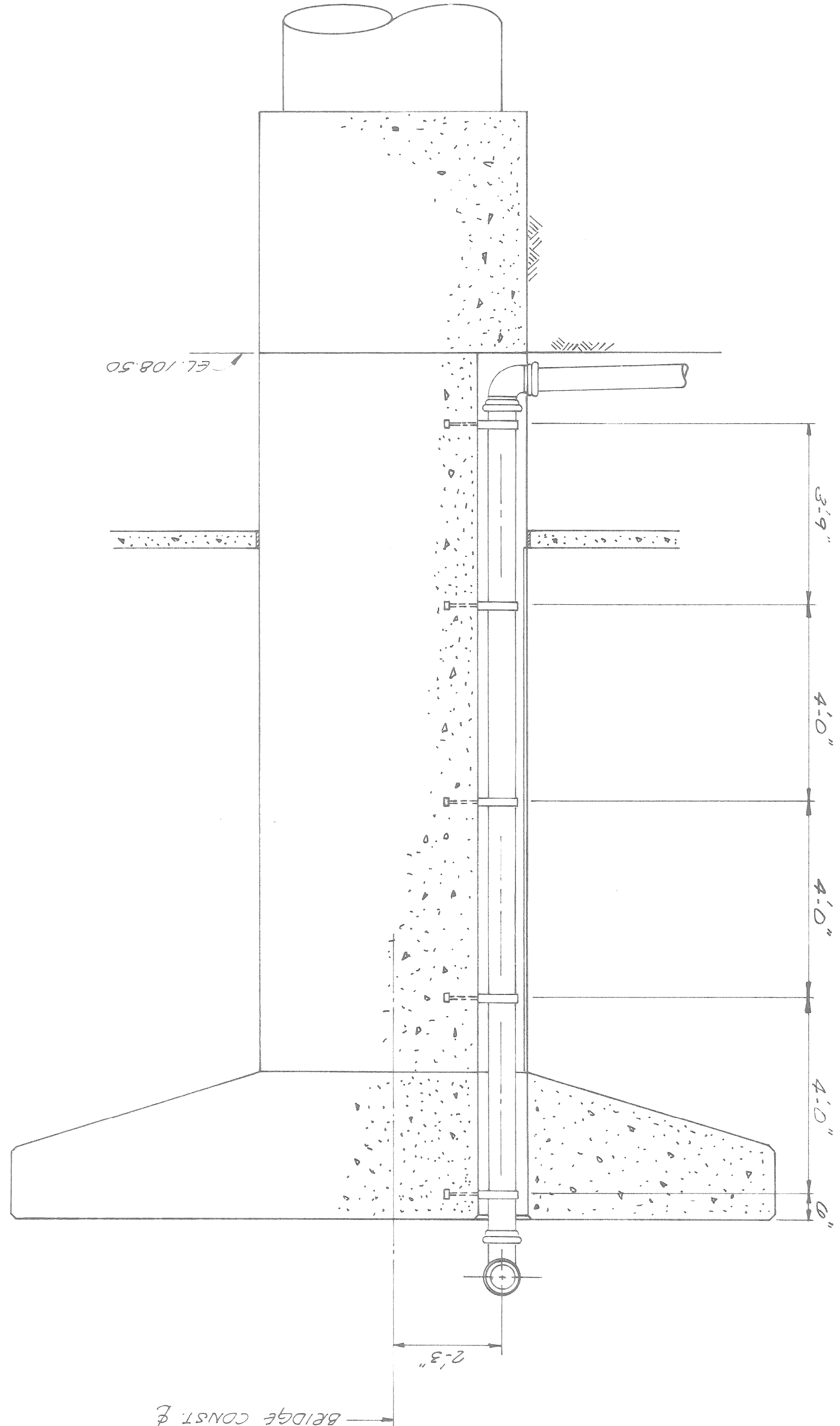
PLAN
PIER 4 DECK DRAIN



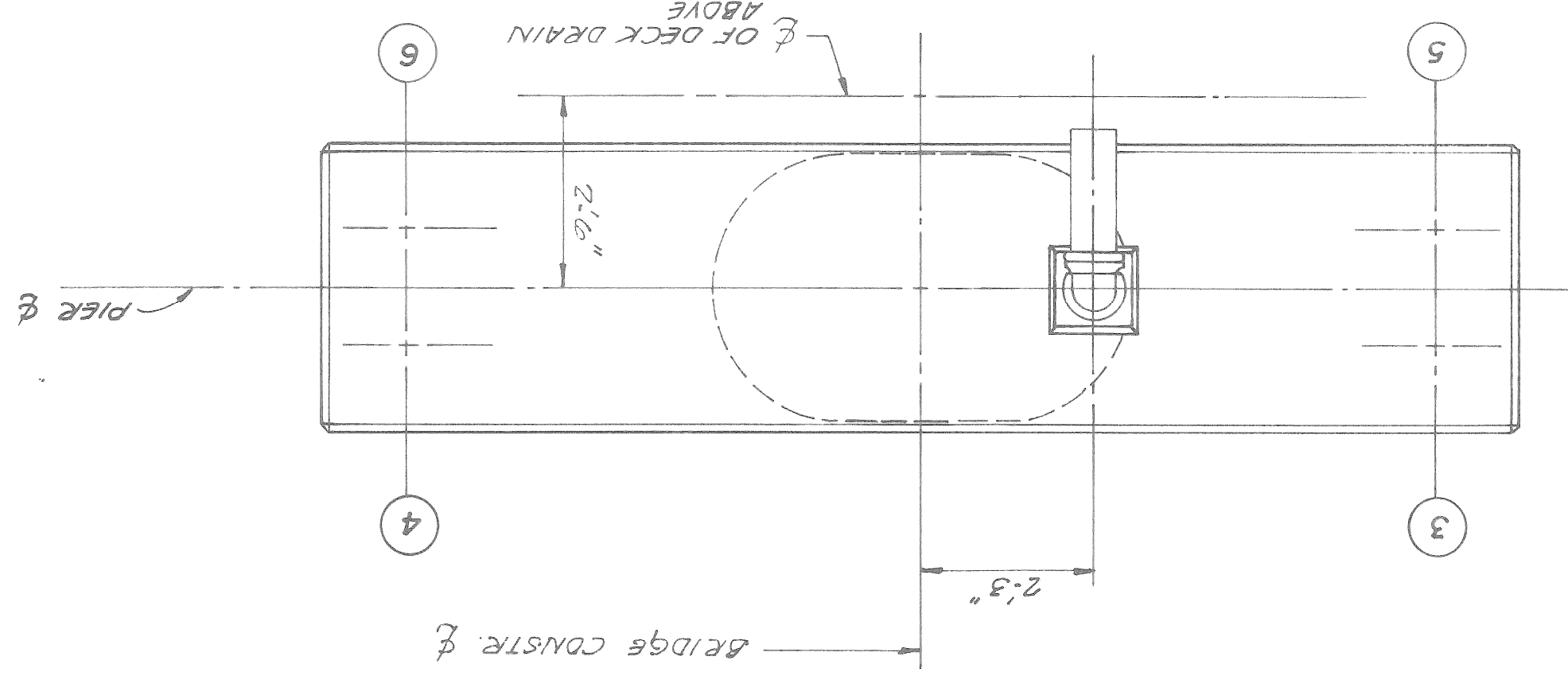
SECTION K
SCALE 3/4" = 1'-0"



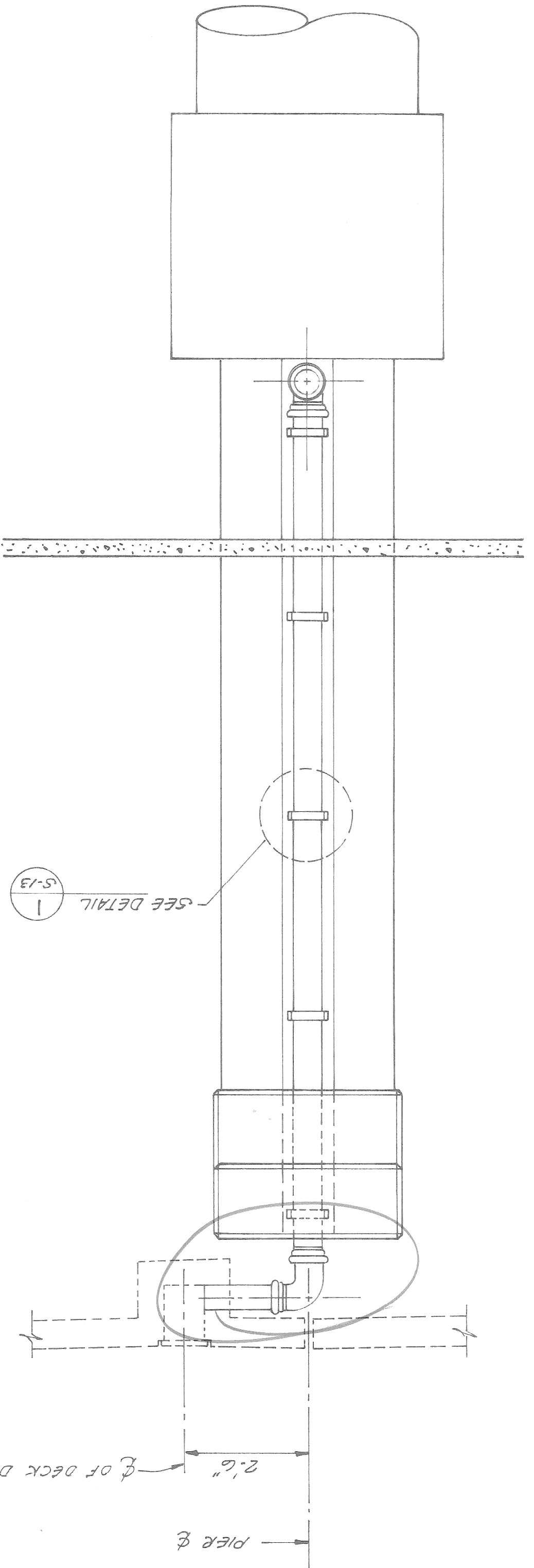
SECTION THRU COLUMN & CAP
SCALE 1/2" = 1'-0"



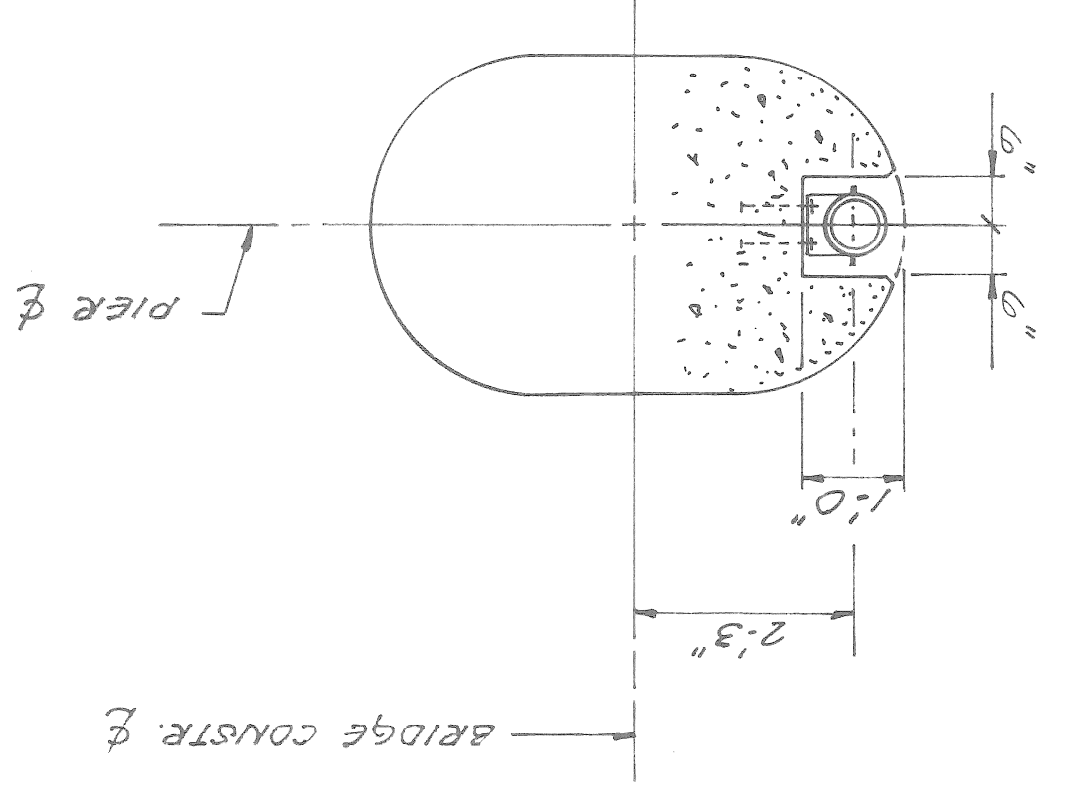
PLAN ABOVE PIER CAP
SCALE 1/2" = 1'-0"



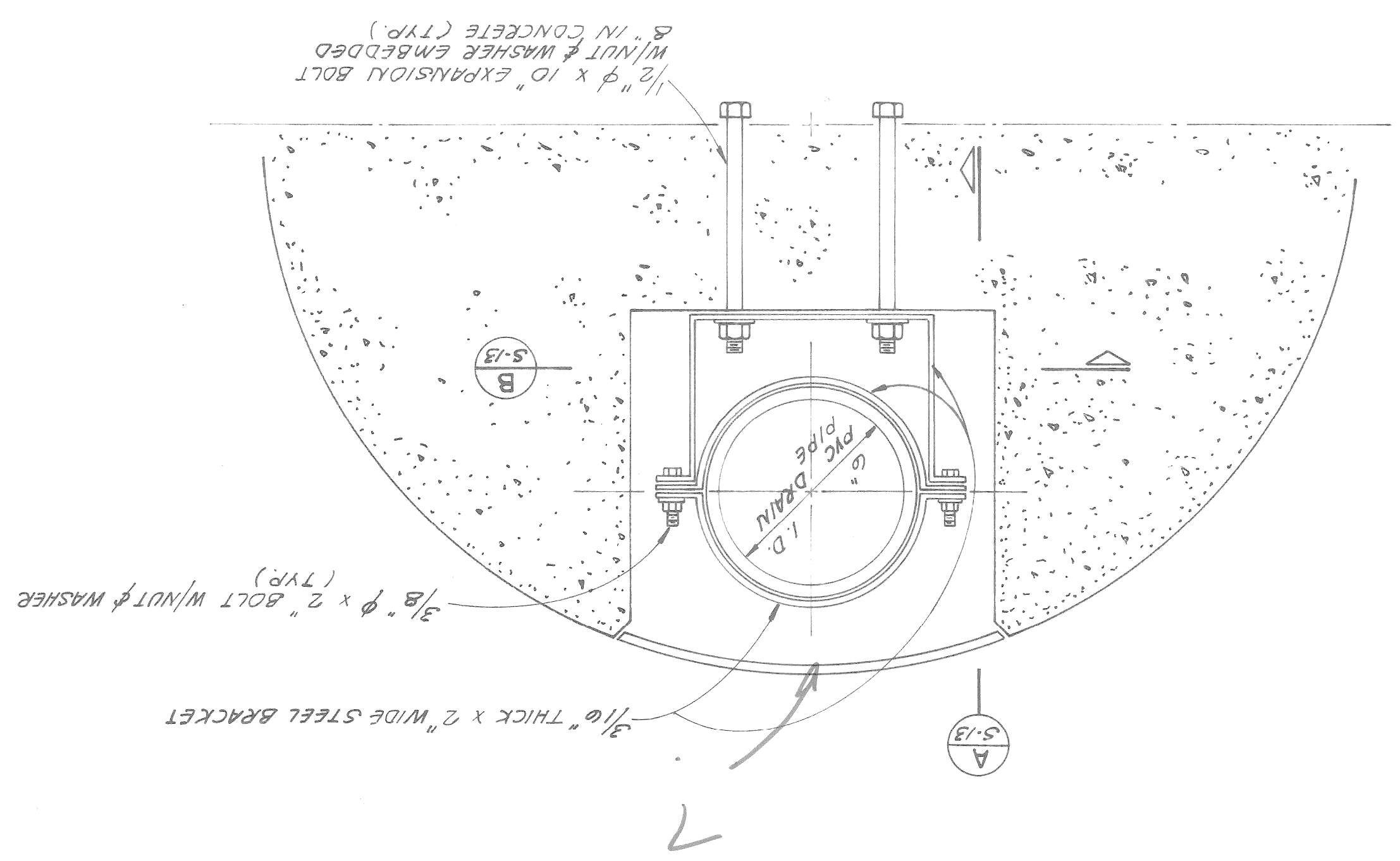
END ELEVATION
SCALE 1/2" = 1'-0"



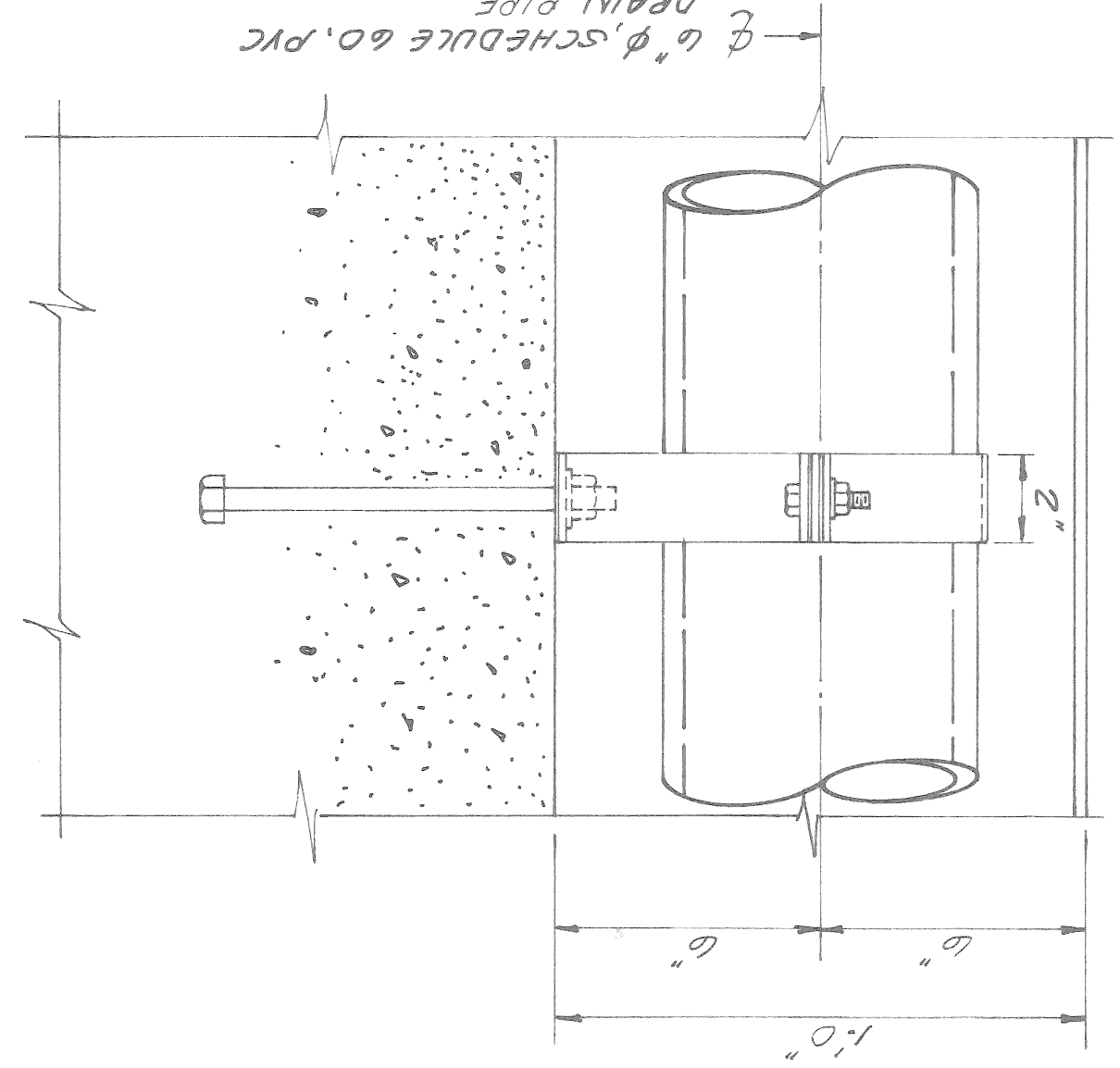
PLAN SECTION THRU COLUMN
SCALE 1/2" = 1'-0"



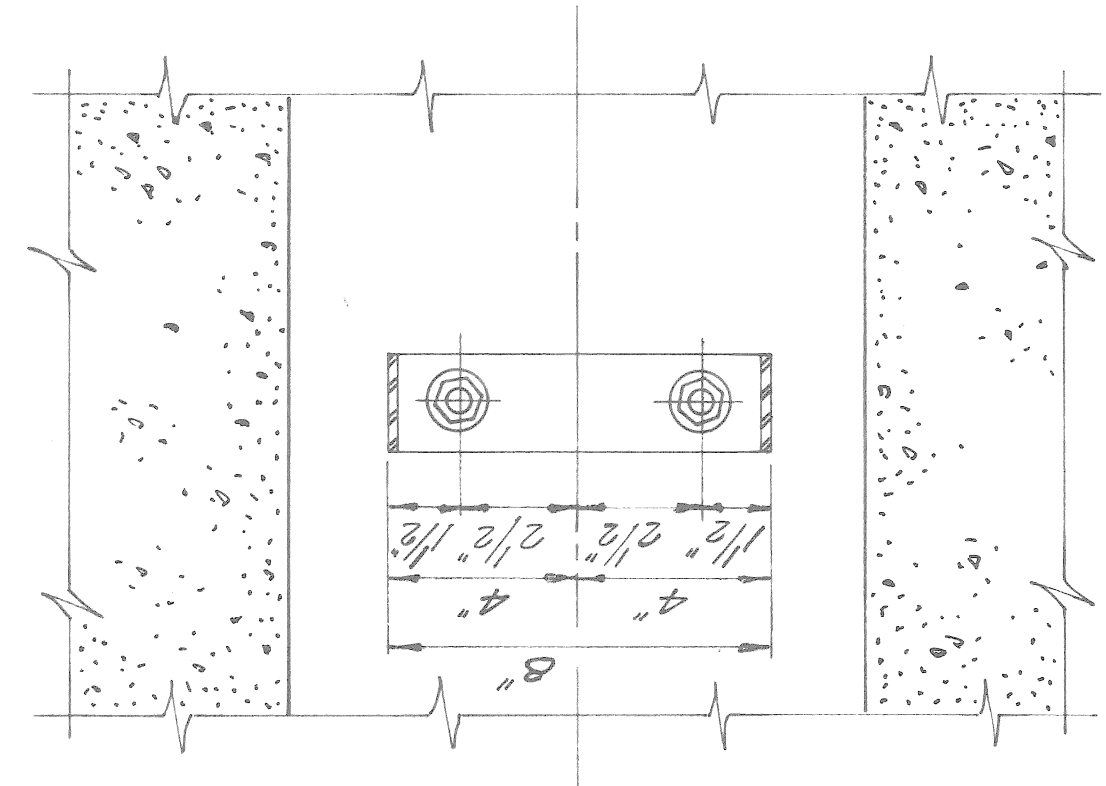
DECK DRAIN ANCHORAGE DETAIL
SCALE 3/4" = 1'-0"



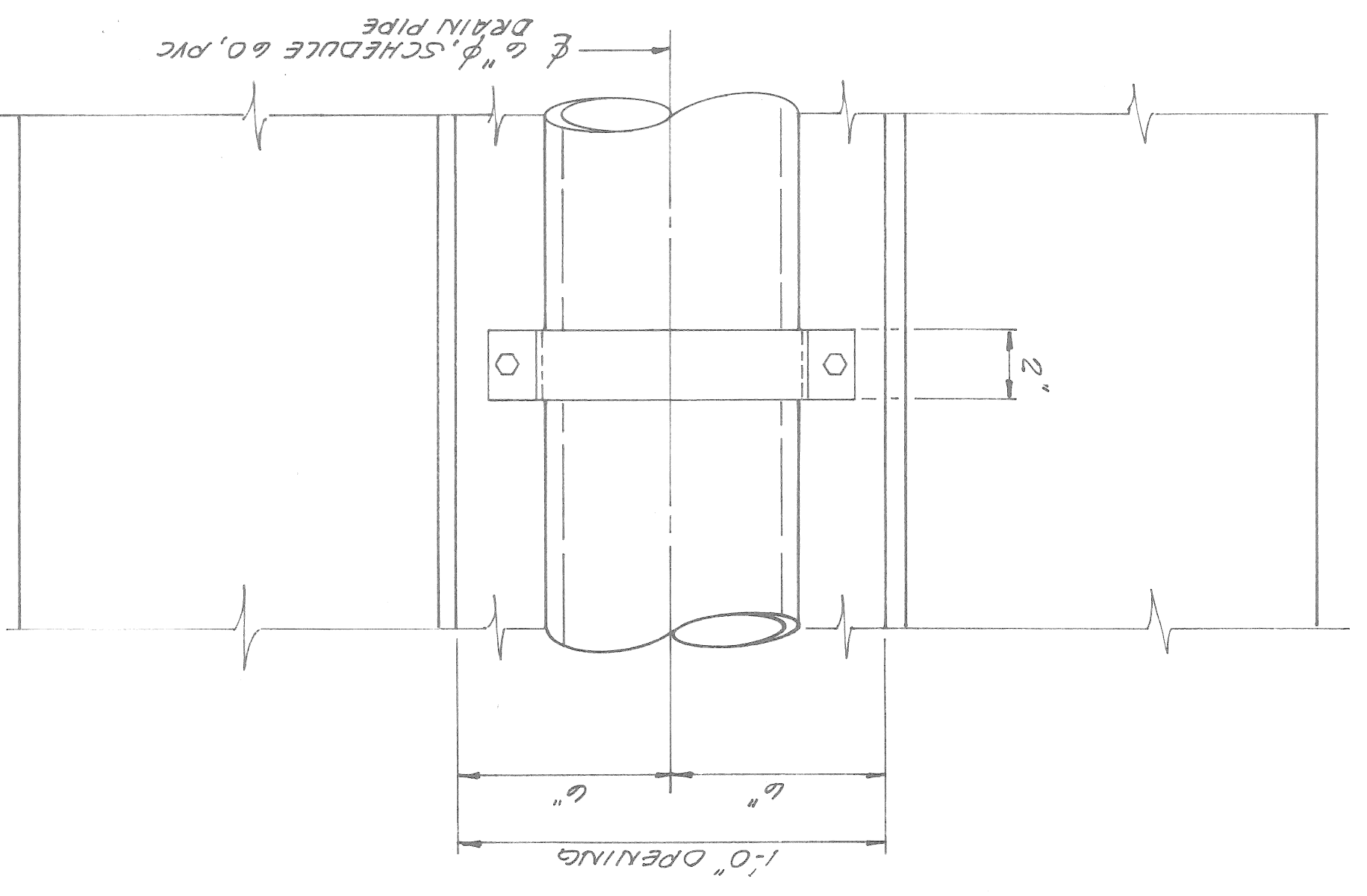
SECTION A
SCALE 3/4" = 1'-0"



SECTION B
SCALE 3/4" = 1'-0"



DETAIL 1
SCALE 3/4" = 1'-0"



S-13

SHEET No.

8612

PROJECT No.

DATE

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DRAWN BY

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Project

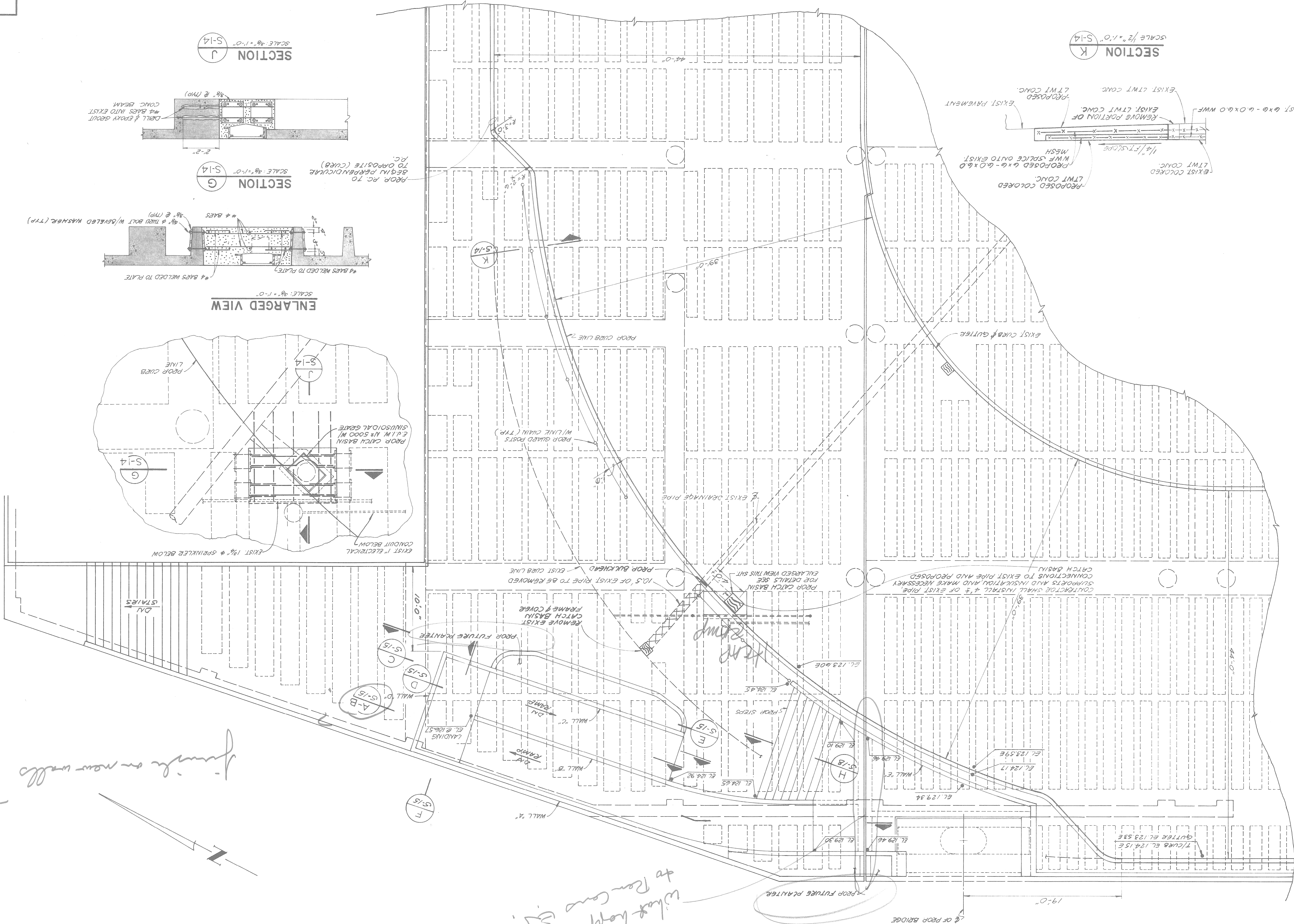
RANDOLPH STREET
PEDESTRIAN BRIDGE

Sheet Title

DECK DRAIN DETAILS

RENAISSANCE PLAZA RECONSTRUCTION PLAN

SCALE 3/16" = 1'-0"



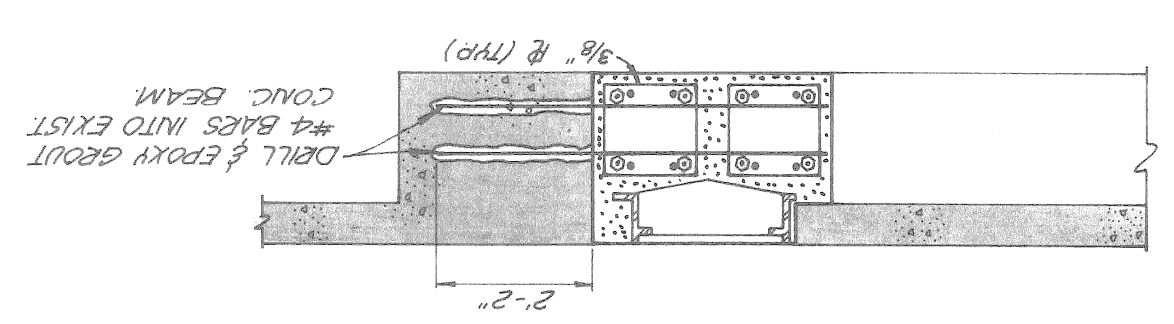
S-14
 SHEET NO.
8612
 PROJECT NO.
 DATE
 CHECKED BY
 L.S. / M.M.
 DRAWN BY
 K.C.H. / S.O.
 DESIGN BY

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 Detroit, Michigan 48226

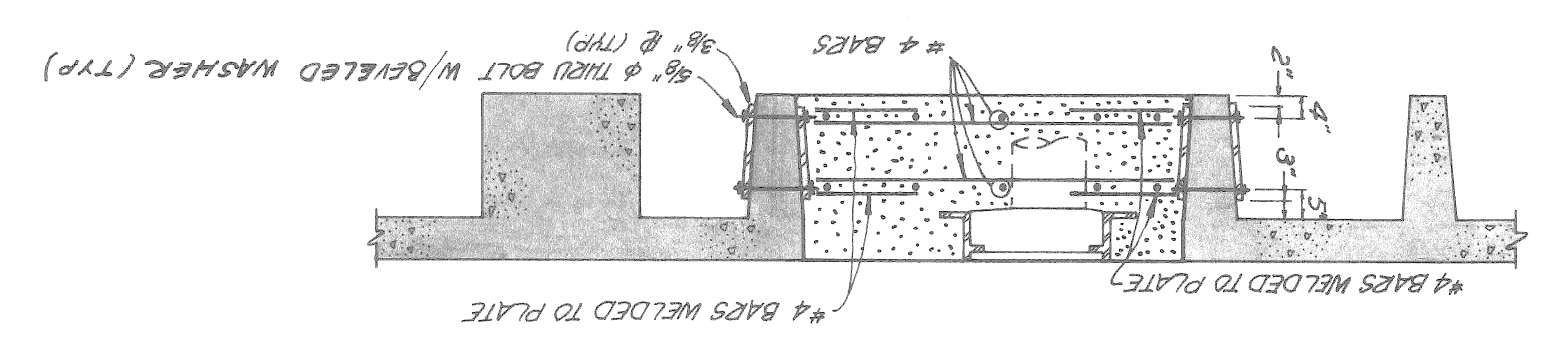
Project
RANDOLPH STREET PEDESTRIAN BRIDGE
 Sheet Title
RENAISSANCE PLAZA RECONSTRUCTION DETAILS

Project
RANDOLPH STREET PEDESTRIAN BRIDGE
 Sheet Title
RENAISSANCE PLAZA RECONSTRUCTION DETAILS

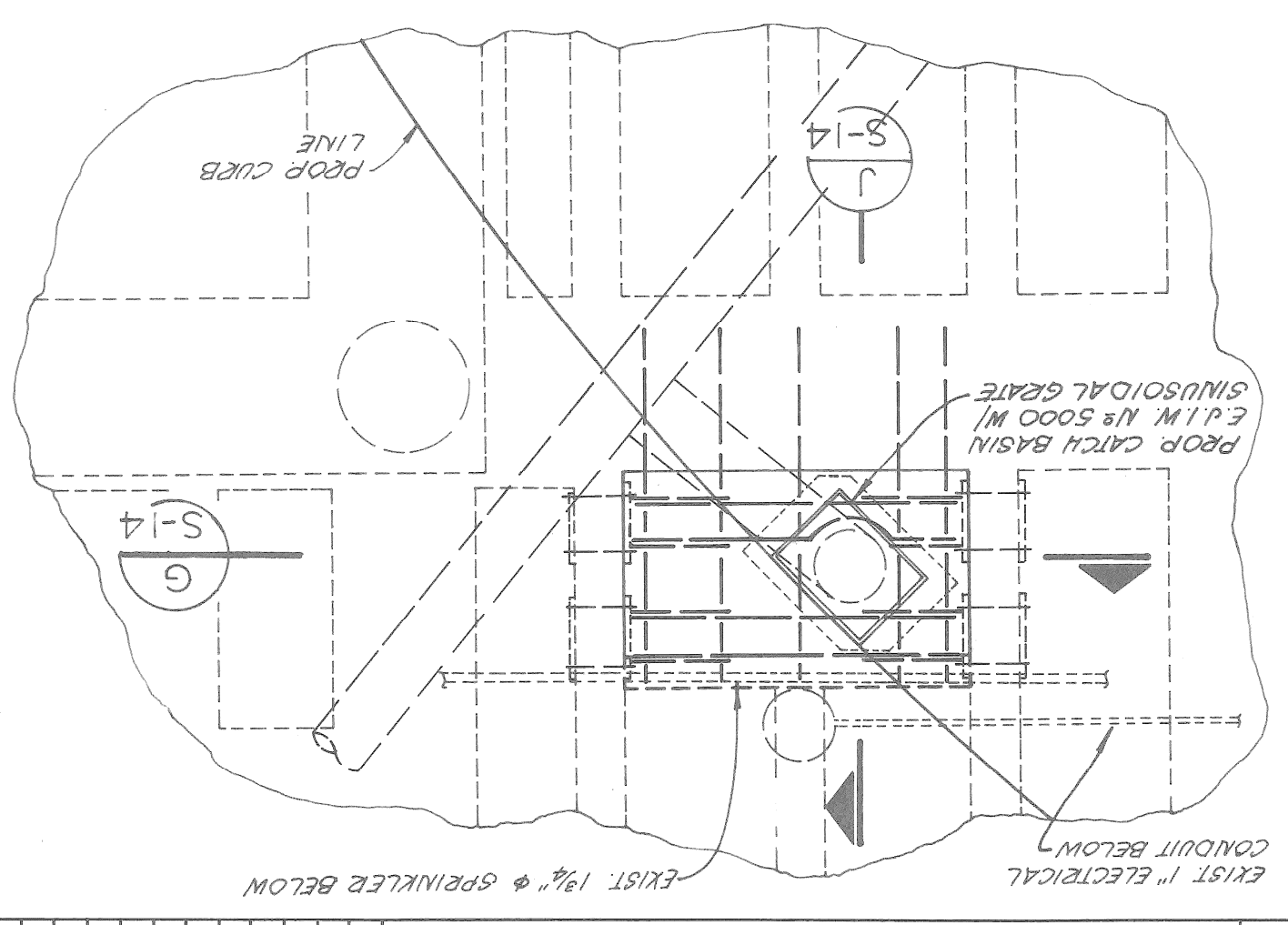
SECTION J SCALE: 3/8" = 1'-0"



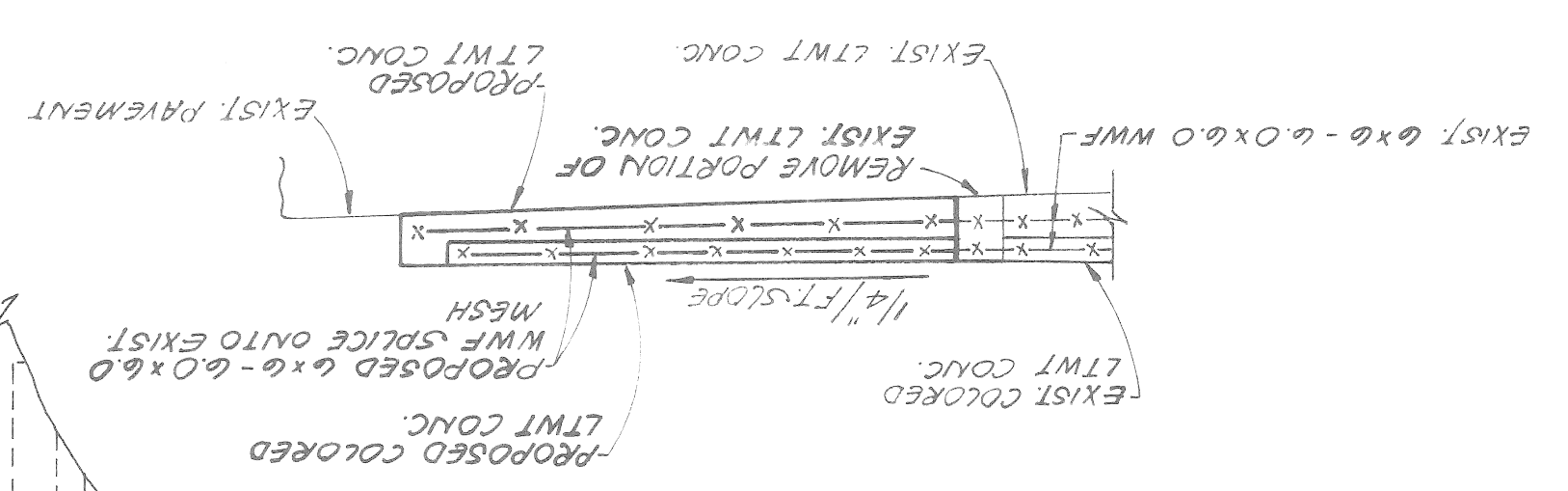
SECTION G SCALE: 3/8" = 1'-0"



ENLARGED VIEW SCALE: 3/8" = 1'-0"

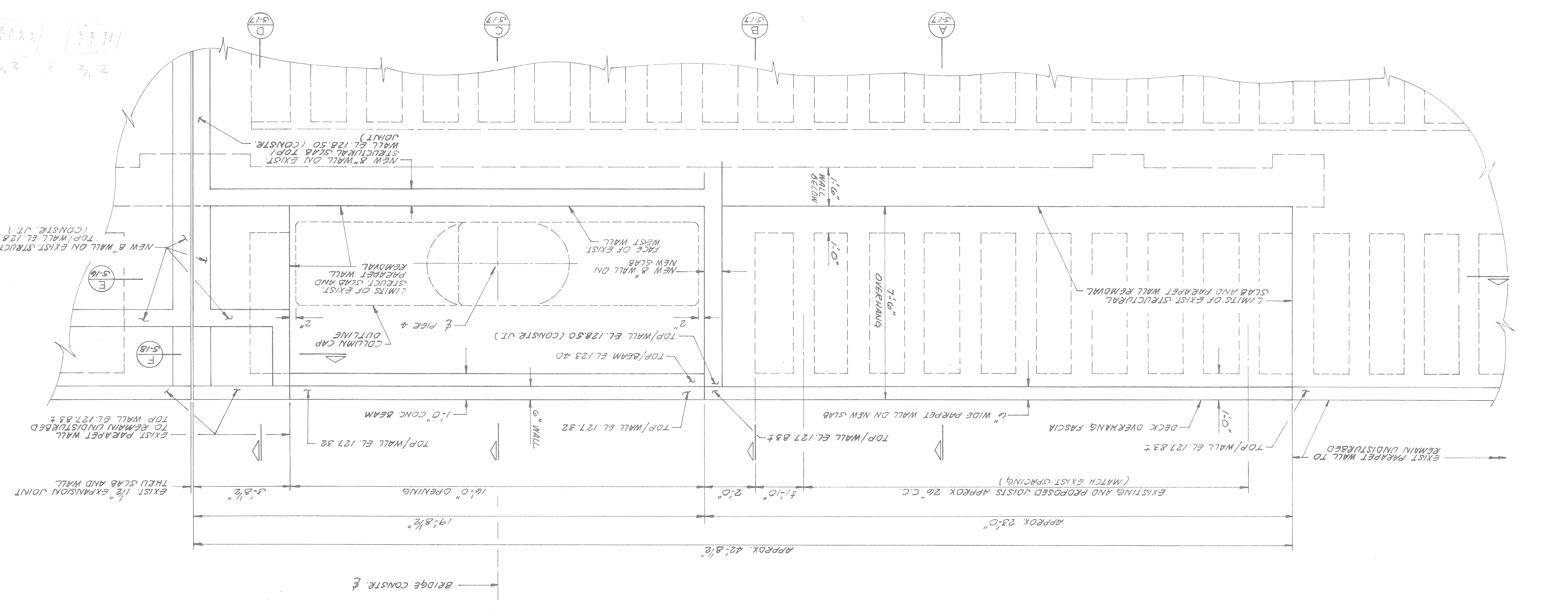
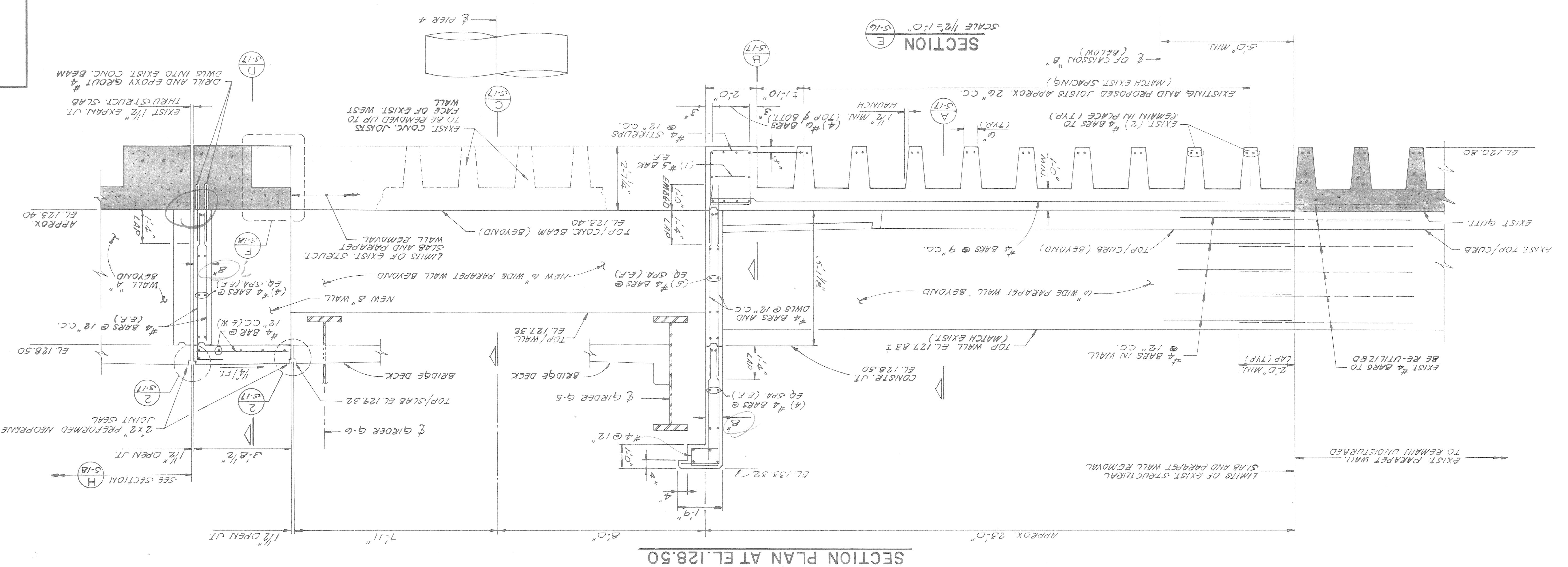


SECTION K SCALE: 1/2" = 1'-0"



finish on new walls?

What happens to Ben Connors?

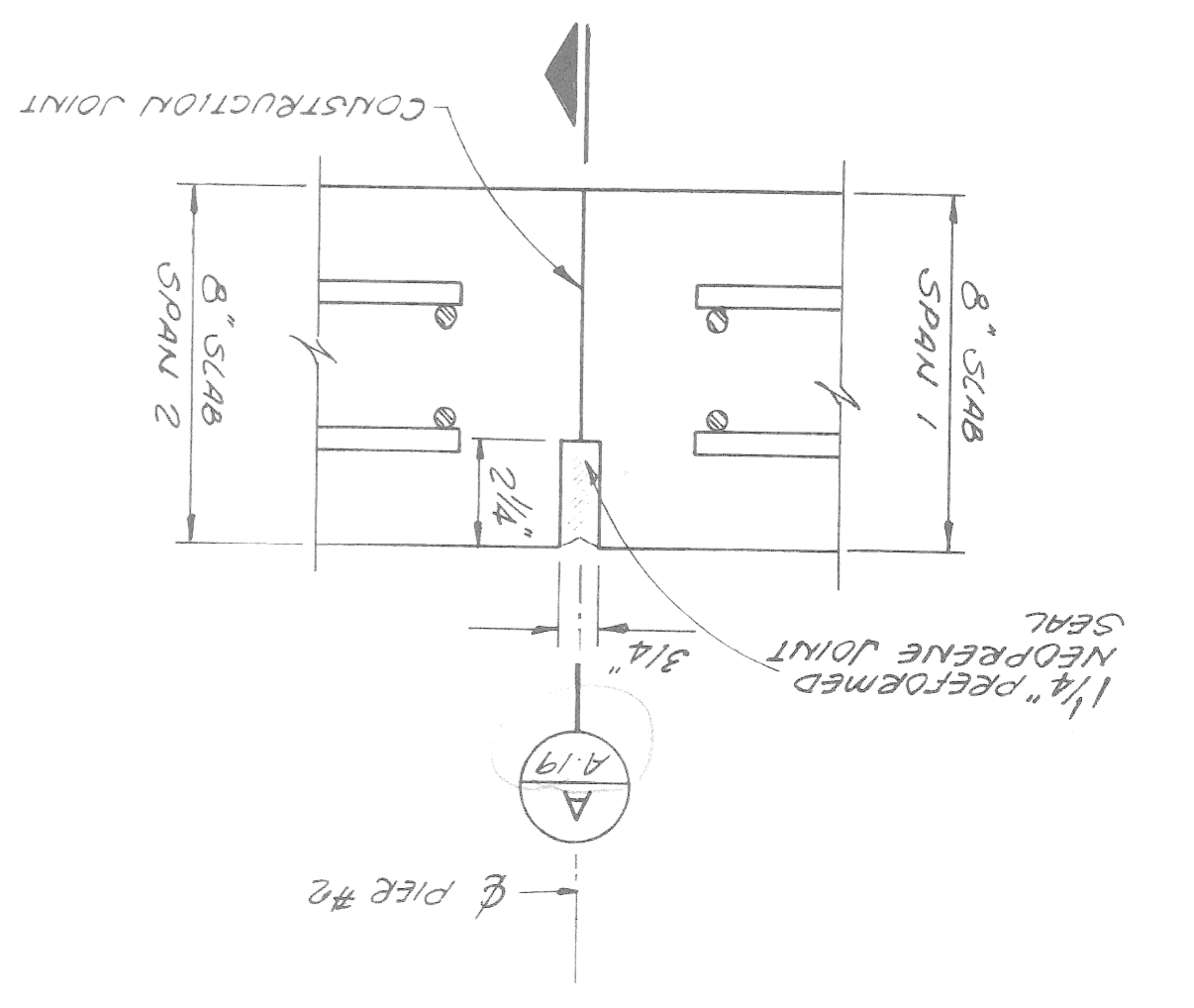
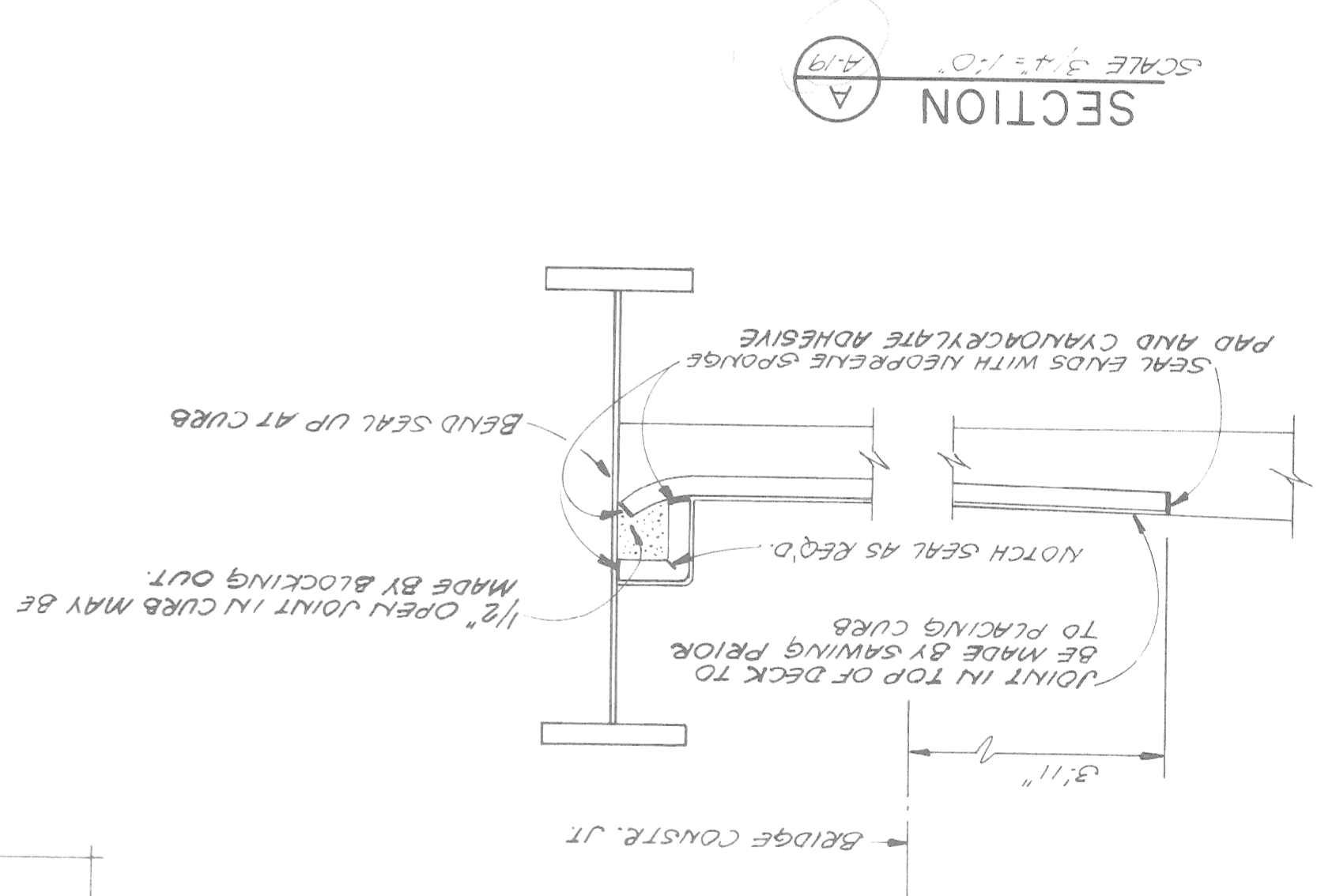
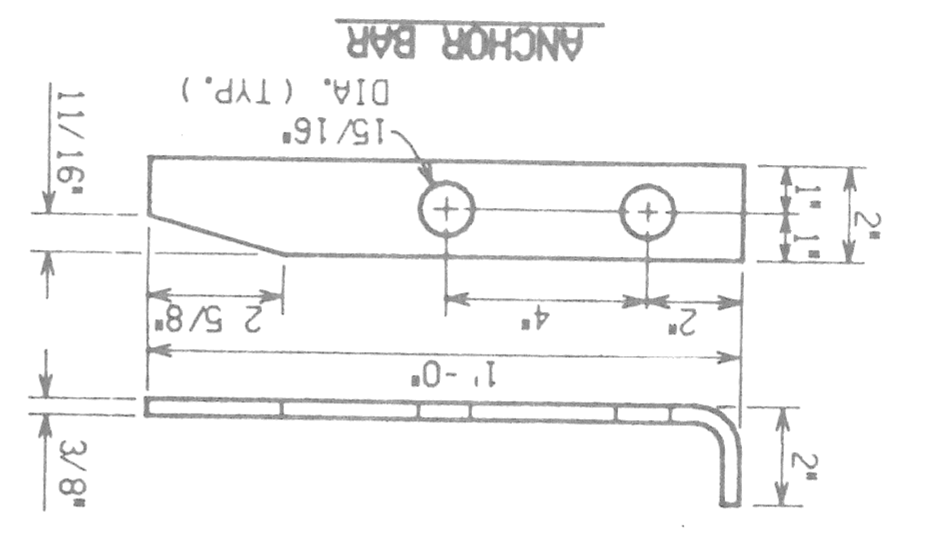
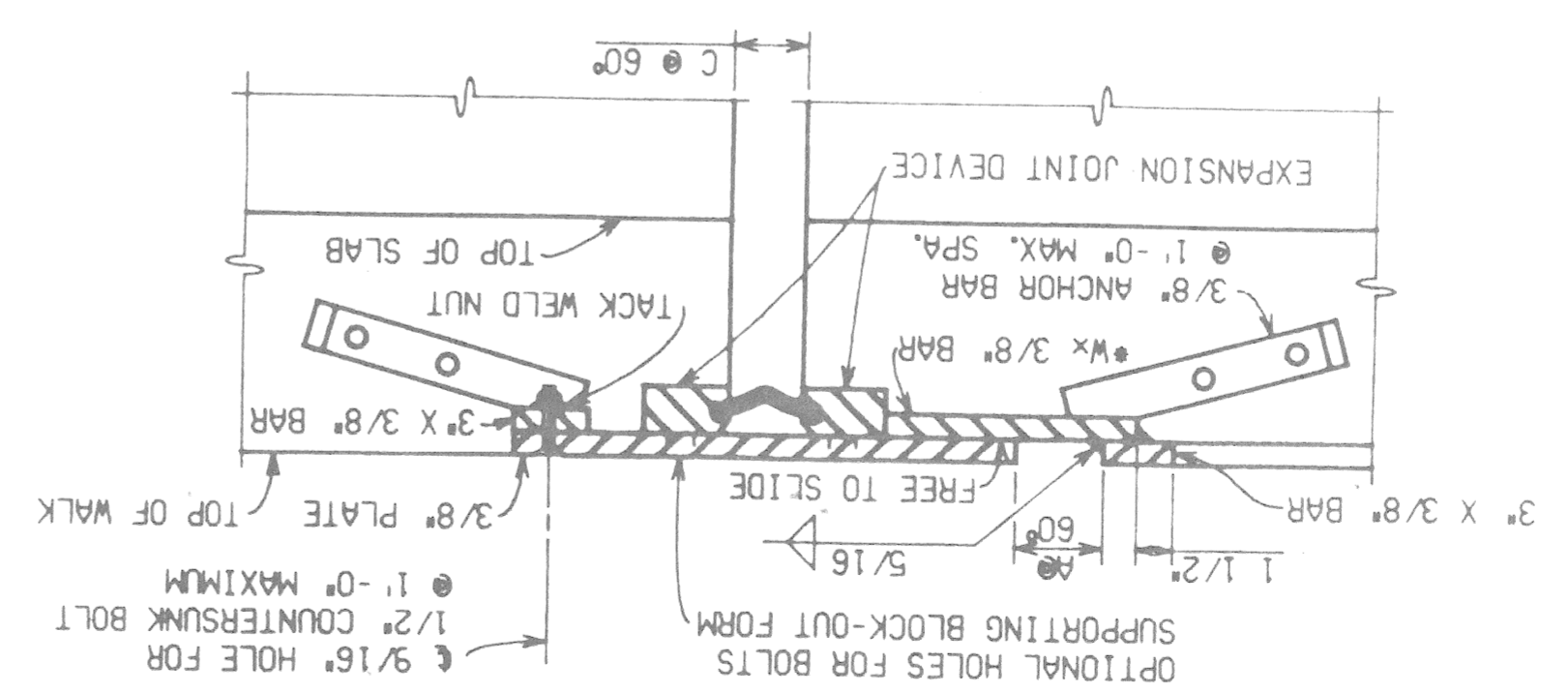
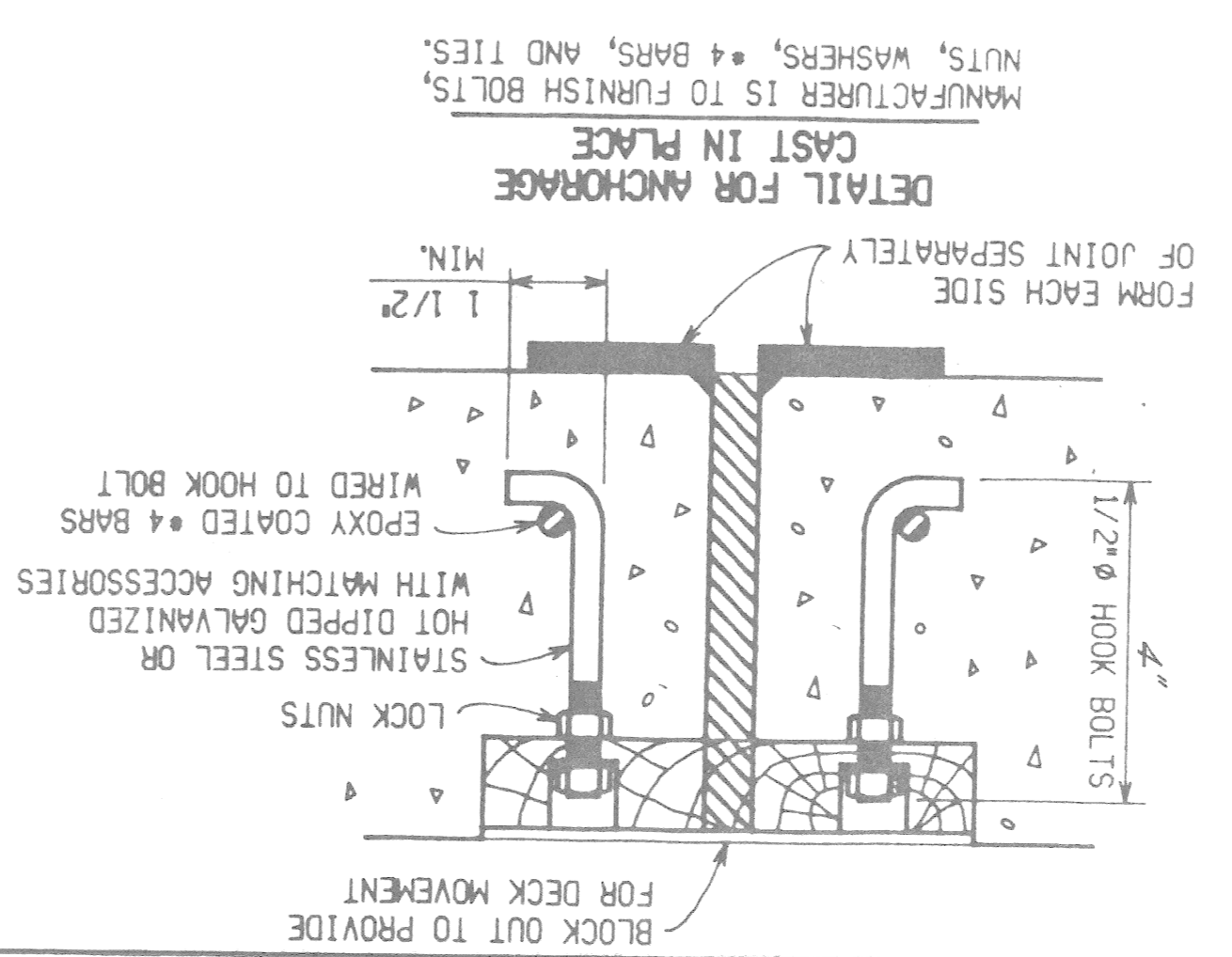


SECTION E
SCALE 1/2" = 1'-0"
S-16

SECTION PLAN AT EL. 128.50

DETAILS AT CURBS OR BARRIERS
 THE DETAILS ON THIS SHEET SHOW AN APPROVED MEANS OF TERMINATING THE EXPANSION JOINT DEVICE AT CURBS OR BARRIERS. VARIATIONS OR ALTERNATIVE SCHEMES WILL BE CONSIDERED AND MAY BE USED IF APPROVED BY THE ENGINEER. THE COST OF ALL MATERIALS AND LABOR REQUIRED FOR PROPER INSTALLATION OF OR BARRIERS IS INCLUDED IN THE PAYMENT FOR THE EXPANSION JOINT DEVICE.

NOTES:
 JOINT TYPES
 THE EXPANSION JOINT DEVICE SHALL BE OF A TYPE THAT INCLUDES A CONTINUOUS NEOPRENE (OR EQUIVALENT) SEAL ACROSS THE DECK, UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR HAS THE OPTION OF USING ANY OF THE DEVICES LISTED BELOW.
 MANUFACTURER
 WATSON-BOWMAN & ACHE, INC.
 STRUCTURAL ACCESSORIES, INC.
 FEL-PRO, INC.
 PRO-SPAN, FEL-SPAN CO AND MULTIFOLD
 GEN-STRIP
 STEELFLEX-RS
 D. S. BROWN
 THE MODEL OF THE JOINT TYPE SELECTED SHALL BE SUITABLE TO ACCOMMODATE THE TOTAL MOVEMENT NOTED ON THE PLANS.
 COMPLETE WORKING DRAWINGS OF ALL DETAILS OF FABRICATION OF THE EXPANSION JOINT DEVICE SHALL BE SUBMITTED FOR REVIEW IN ACCORDANCE WITH STANDARD SPECIFICATION 1.05.02. THIS REQUIREMENT IS WAIVED FOR EXPANSION JOINT DEVICES FOR WHICH A SET OF STANDARD INSTALLATION DETAILS HAS BEEN APPROVED. STANDARD INSTALLATION DETAILS CAN BE OBTAINED FROM THE DESIGN DIVISION. FABRICATION AND INSTALLATION
 THE EXPANSION JOINT SHALL BE SHOP FABRICATED TO CONFORM TO THE CONTOUR OF THE BRIDGE DECK, BARRIERS, ETC. IT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS SUBJECT TO NOTES HEREIN AND THE APPROVAL OF THE ENGINEER.
 THE PRO-SPAN DEVICE MUST INCORPORATE A CAST-IN-PLACE METAL SEAT. WHERE THE DEVICE IS TO BE INSTALLED ON CAST CONCRETE, THE SURFACE LATANCE SHALL BE REMOVED BY SANDBLASTING AND ANY Voids FILLED WITH EPOXY MORTAR PRIOR TO BEDDING.
 THE AREA OF THE HOLD-DOWN DEVICE AND SEALING GLAND WHICH WILL BE IN CONTACT WITH A SEALANT, BEDDING COMPOUND, OR LUBRICANT-ADHESIVE SHALL BE CLEANED WITH TOLUENE OR OTHER APPROVED SOLVENT.
 A BEDDING COMPOUND SHALL BE USED BETWEEN THE SEAT AND THE ANCHORED PORTION OF THE SEALING GLAND, OR BETWEEN THE SEAT AND HOLD-DOWN DEVICE. THE BEDDING COMPOUND SHALL BE AN APPROVED EPOXY GROUT FURNISHED BY THE MANUFACTURER OF THE EXPANSION JOINT DEVICE.
 WHERE THE SEALING GLAND IS LOCKED INTO A METAL EXTRUSION, A LUBRICANT-ADHESIVE CONFORMING TO STANDARD SPECIFICATION 8.16.04-D SHALL BE REQUIRED BETWEEN THE SEAL AND METAL EXTRUSION.
 ALL CONTINUOUS BOLT WELL CAVITIES IN THE HOLD-DOWN DEVICES SHALL BE FILLED WITH AN EPOXY MORTAR, ALL NON-CONTINUOUS BOLT WELL CAVITIES SHALL BE FILLED WITH AN APPROVED FLEXIBLE EPOXY OR A SEALANT CONFORMING TO FEDERAL SPECIFICATION TT-S-00230C.
 THE VOID FORMED BETWEEN THE VERTICAL EDGE OF THE HOLD-DOWN DEVICE AND THE BLOCK-OUT SHALL BE FILLED WITH A SEALANT IF LESS THAN 1/2 INCH IN WIDTH OR WITH AN EPOXY MORTAR IF GREATER THAN 1/2 INCH. THE SEALANT SHALL CONFORM TO FEDERAL SPECIFICATION TT-S-00230C OR SHALL BE AN APPROVED FLEXIBLE EPOXY.
 THE EPOXY MORTAR USED TO REPAIR THE SEAL, TO FILL THE CONTINUOUS BOLT WELL CAVITIES, AND TO FILL THE VOID BETWEEN THE EDGE OF THE HOLD-DOWN DEVICE AND THE BLOCK-OUT SHALL BE MIXED AND PLACED IN ACCORDANCE WITH STANDARD SPECIFICATION 4.50.19-0. EXCEPT THE SAND SHALL BE LIMITED TO A MAXIMUM OF 2.5 PARTS, USING AN EPOXY BINDER MEETING THE REQUIREMENTS SPECIFIED IN STANDARD SPECIFICATION 8.16.05. ALL SURFACES IN CONTACT WITH THE EPOXY MORTAR SHALL BE LIGHTLY SANDBLASTED AND PRIMED WITH THE BINDER PRIOR TO PLACING THE MORTAR.



THE EXPANSION JOINT DEVICE SHALL BE OF A TYPE THAT INCLUDES A CONTINUOUS NEOPRENE (OR EQUIVALENT) SEAL ACROSS THE DECK, UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR HAS THE OPTION OF USING ANY OF THE DEVICES LISTED BELOW.
 MANUFACTURER
 WATSON-BOWMAN & ACHE, INC.
 STRUCTURAL ACCESSORIES, INC.
 FEL-PRO, INC.
 PRO-SPAN, FEL-SPAN CO AND MULTIFOLD
 GEN-STRIP
 STEELFLEX-RS
 D. S. BROWN