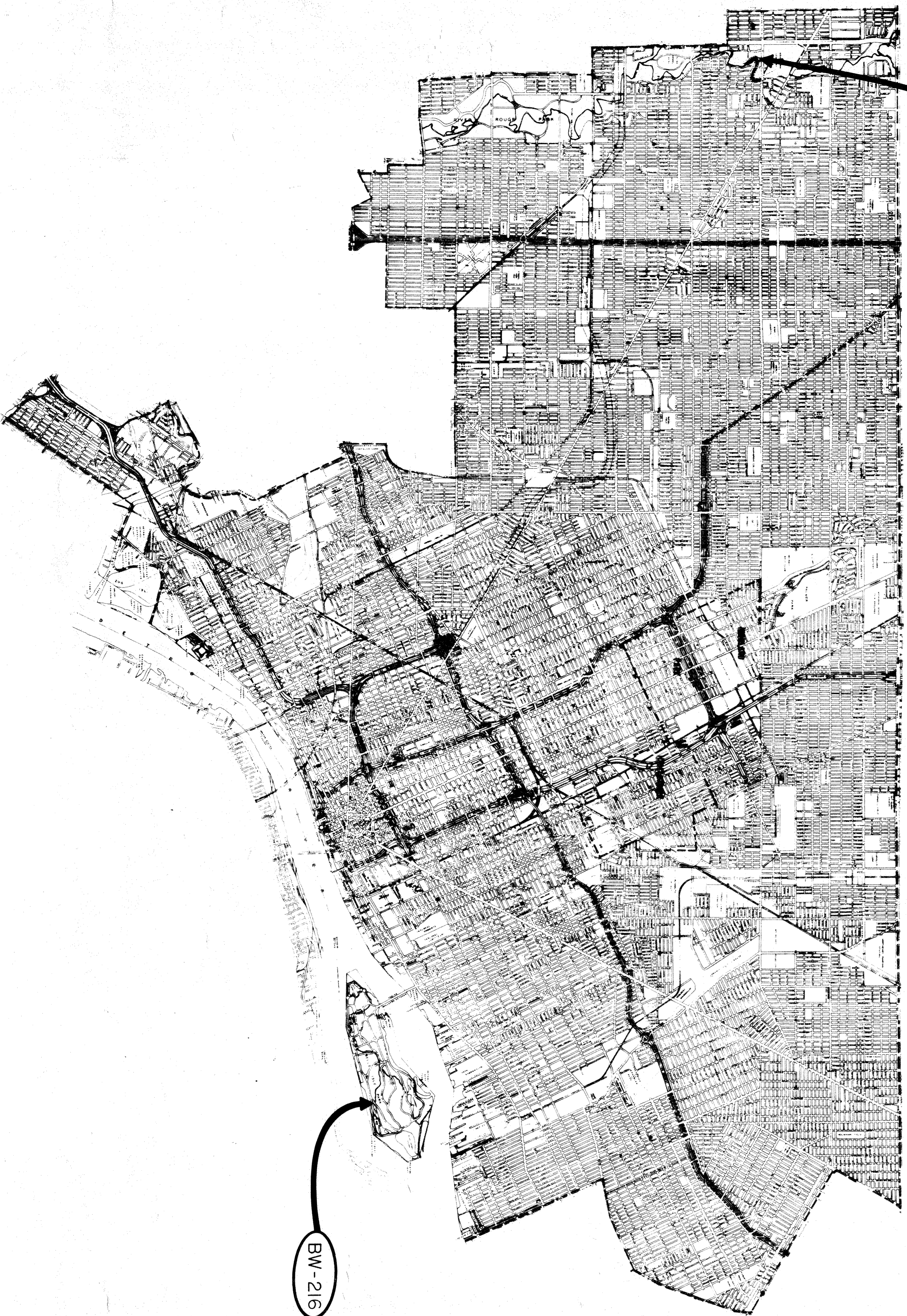


CITY OF DETROIT
COLEMAN A. YOUNG — MAYOR
CITY ENGINEERING DEPARTMENT
PLANS FOR PROPOSED BRIDGE REPAIRS

FOR

DEPARTMENT OF PUBLIC WORKS

WOODSIDE OVER CANAL (BELLE ISLE) BW-216
 RIDGE ROAD OVER ROUGE RIVER BW-283

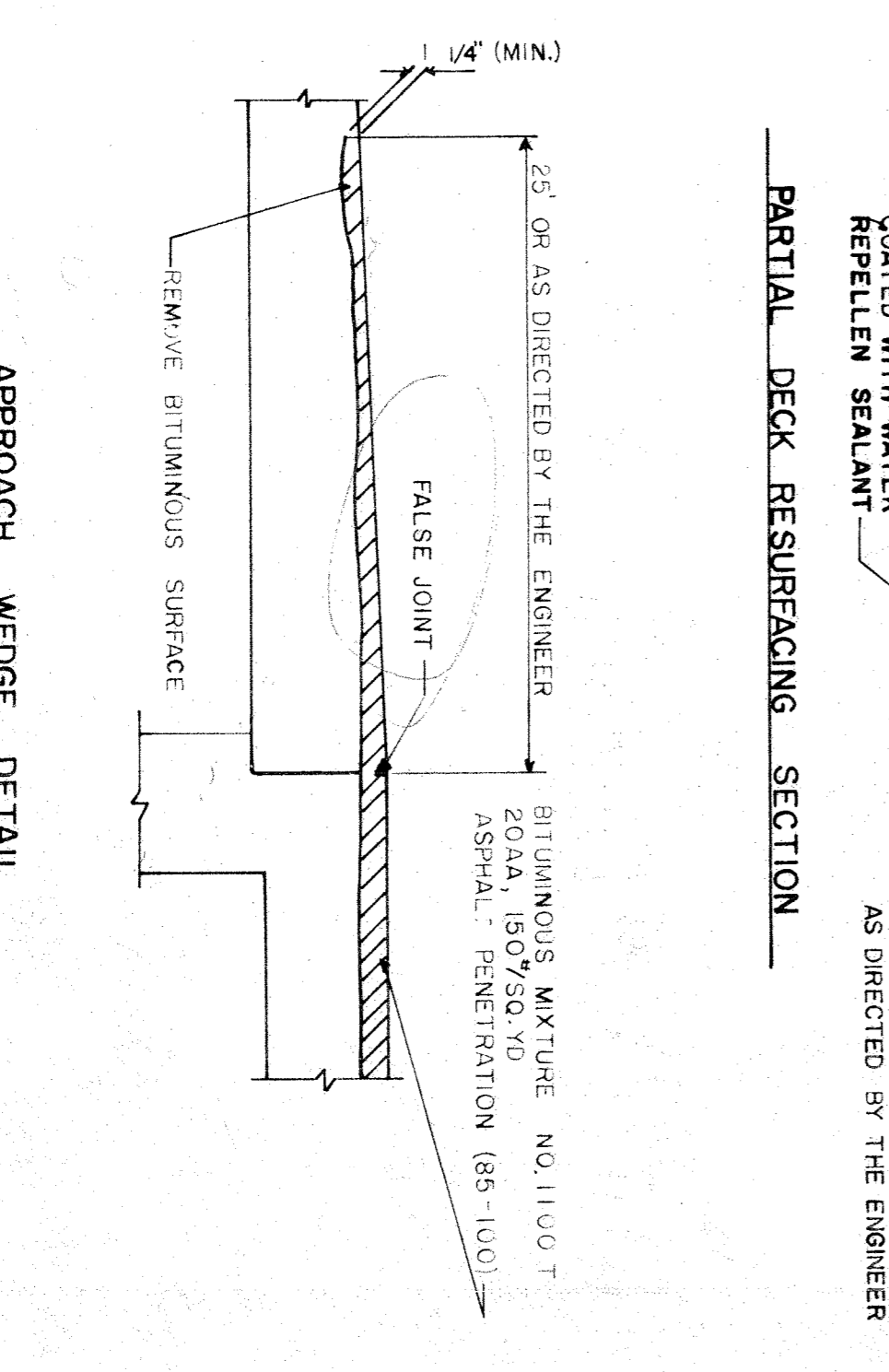
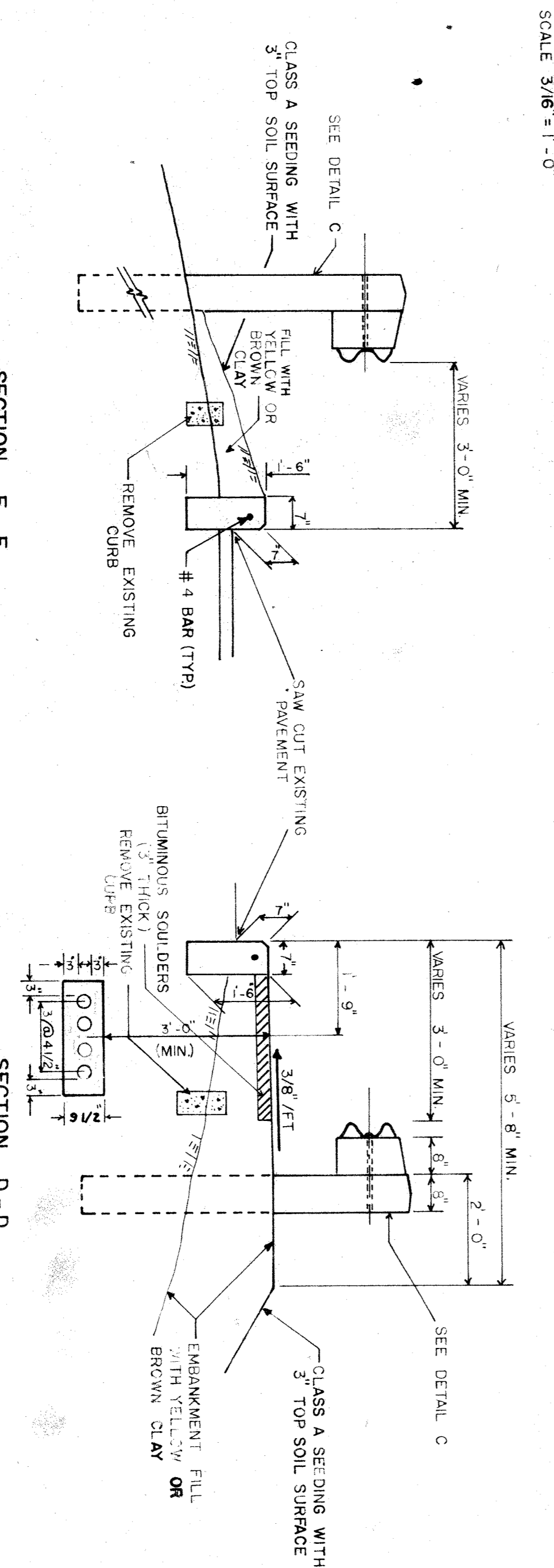
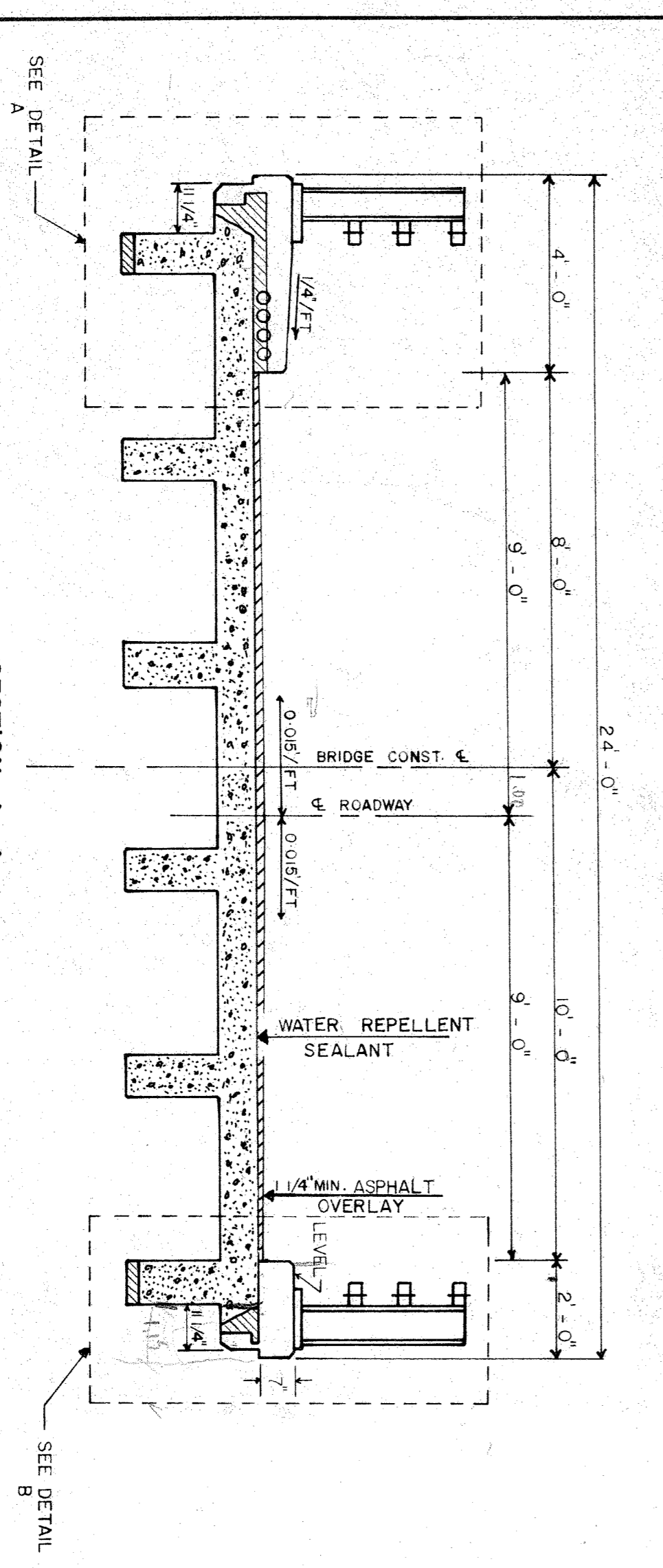
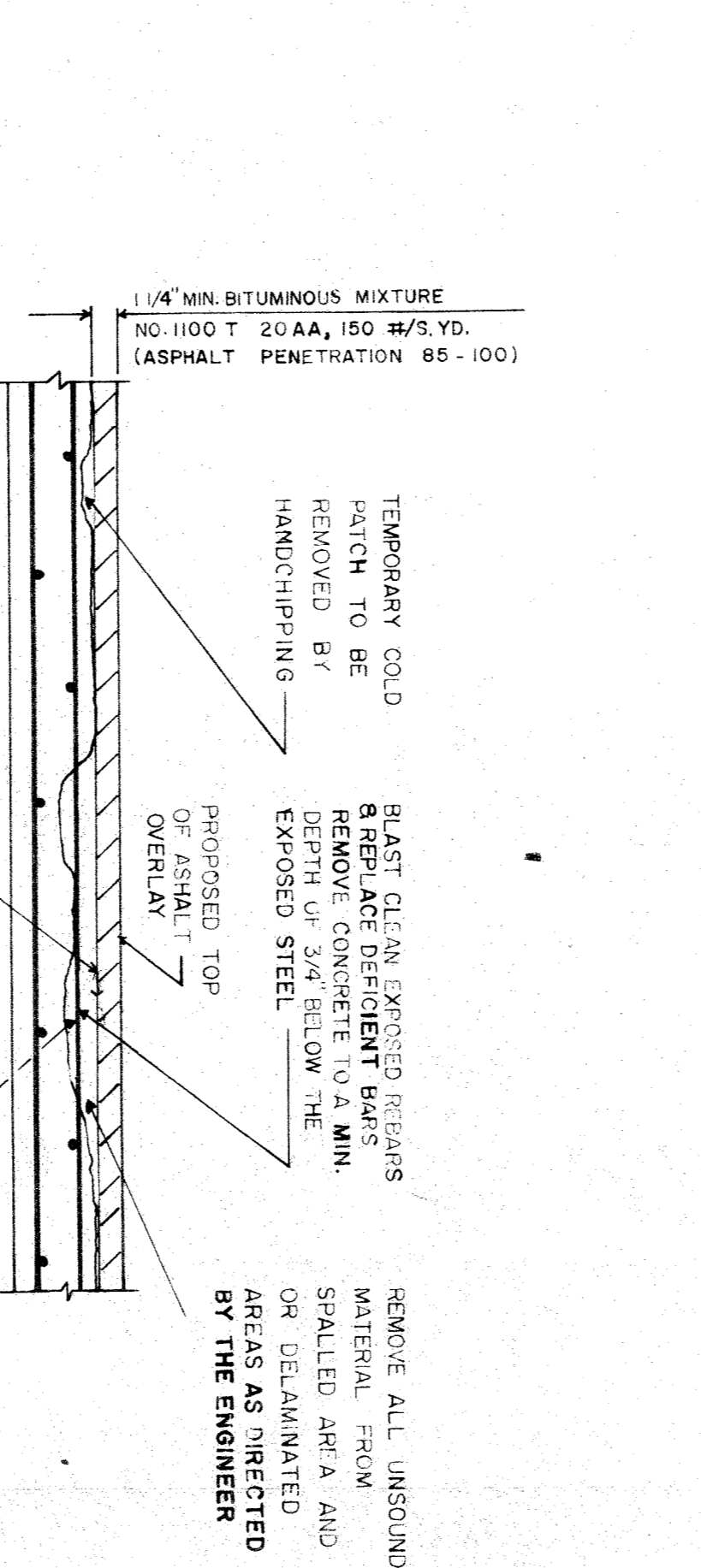
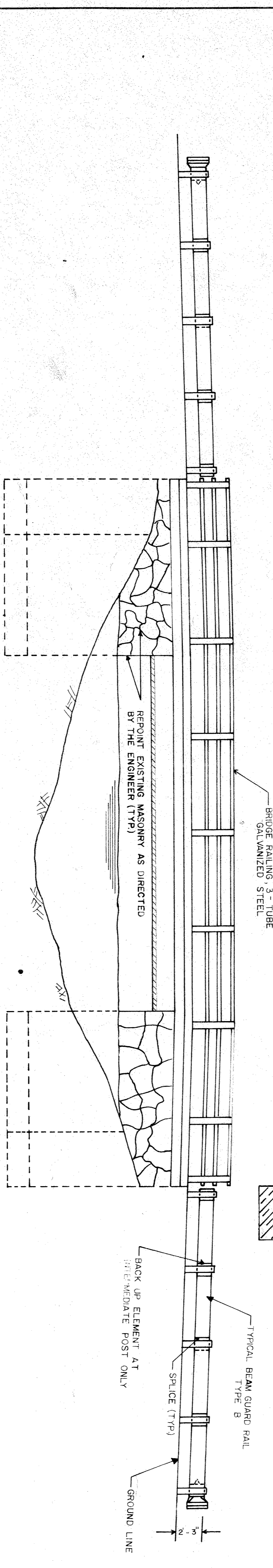
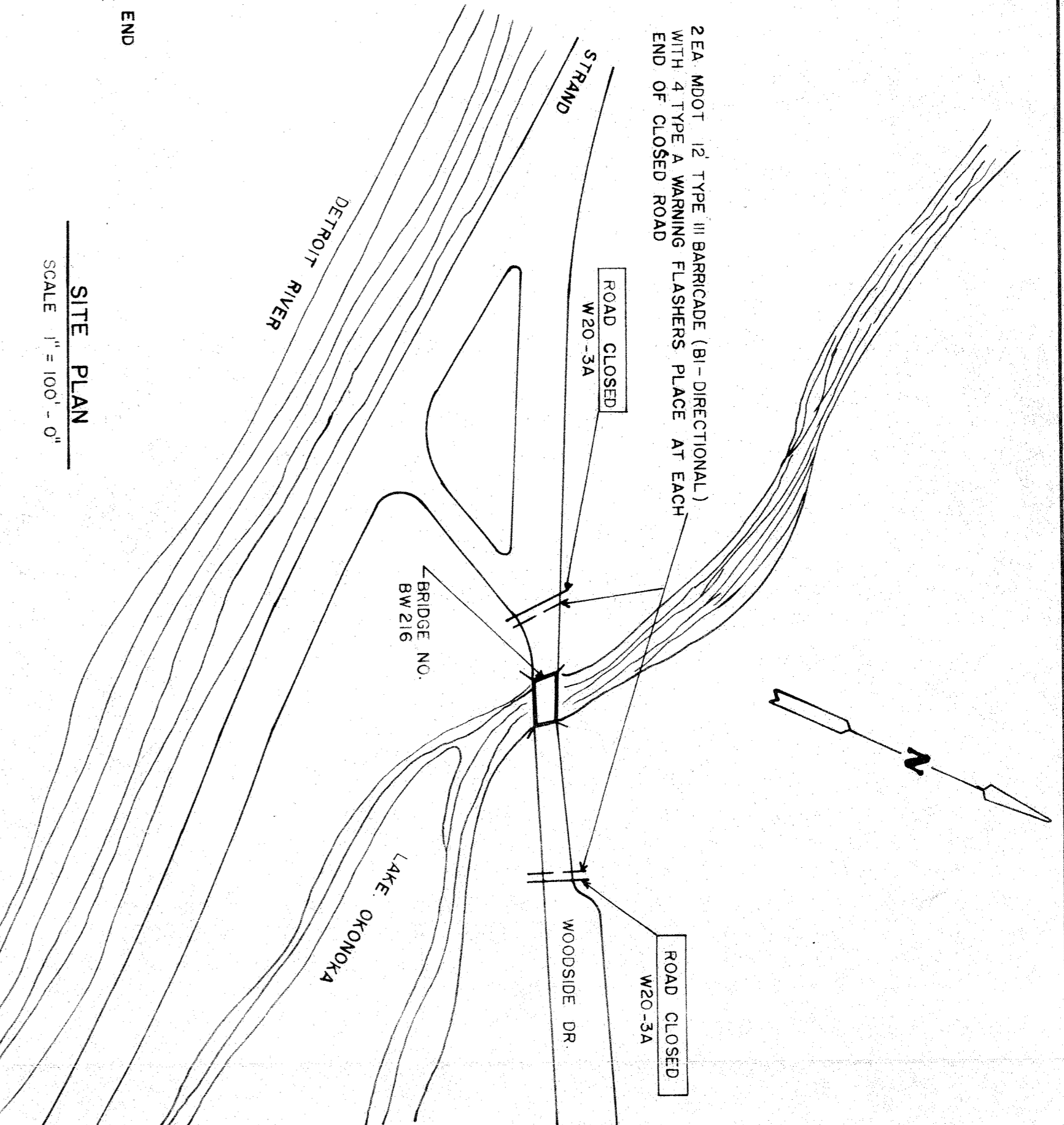
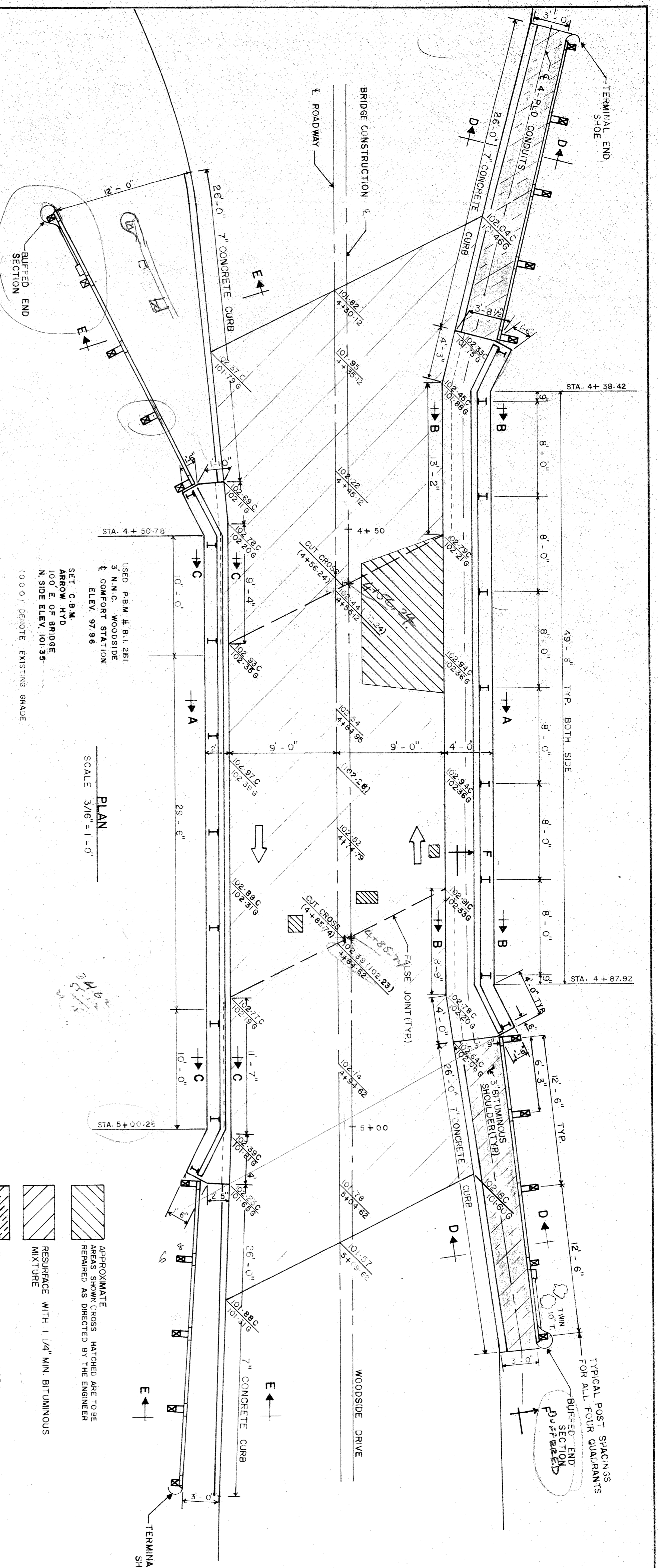


SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	BRIDGE REPAIR PLAN (BW-216)
3.	BRIDGE REPAIR DETAILS (BW-216)
4.	RAILING REPLACEMENT (BW-283)
5.	GUARDRAIL REPLACEMENT (BW-283)

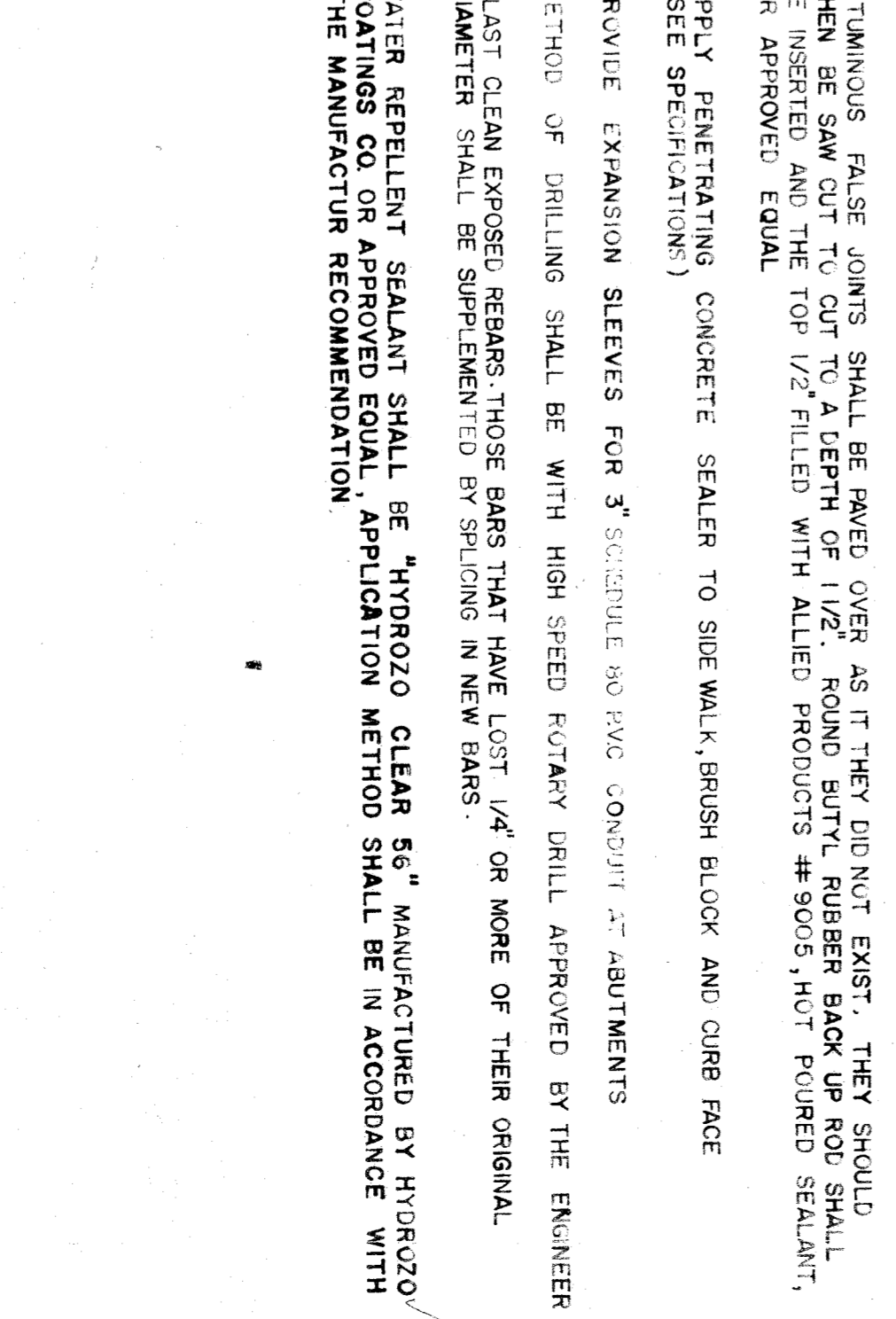
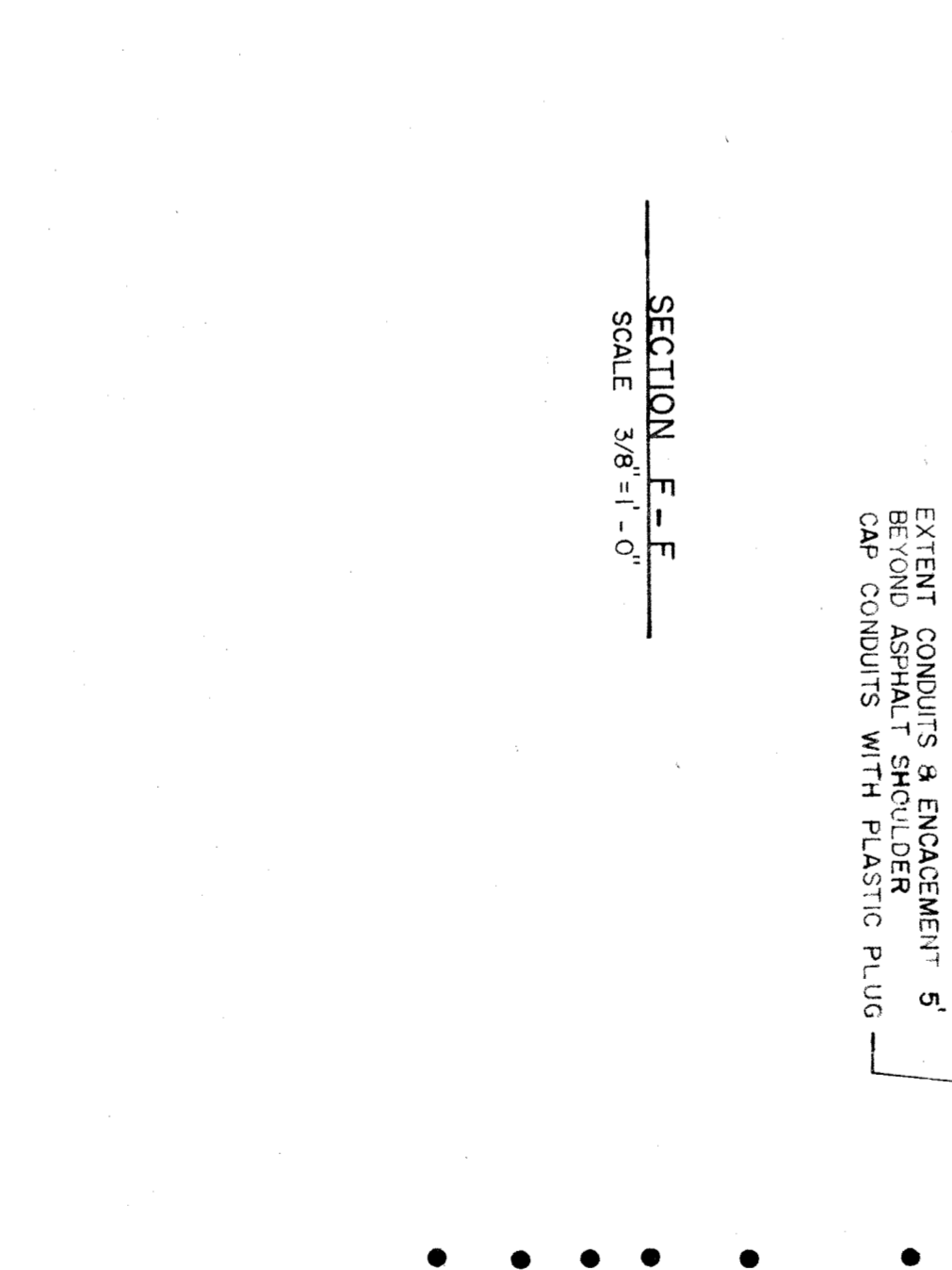
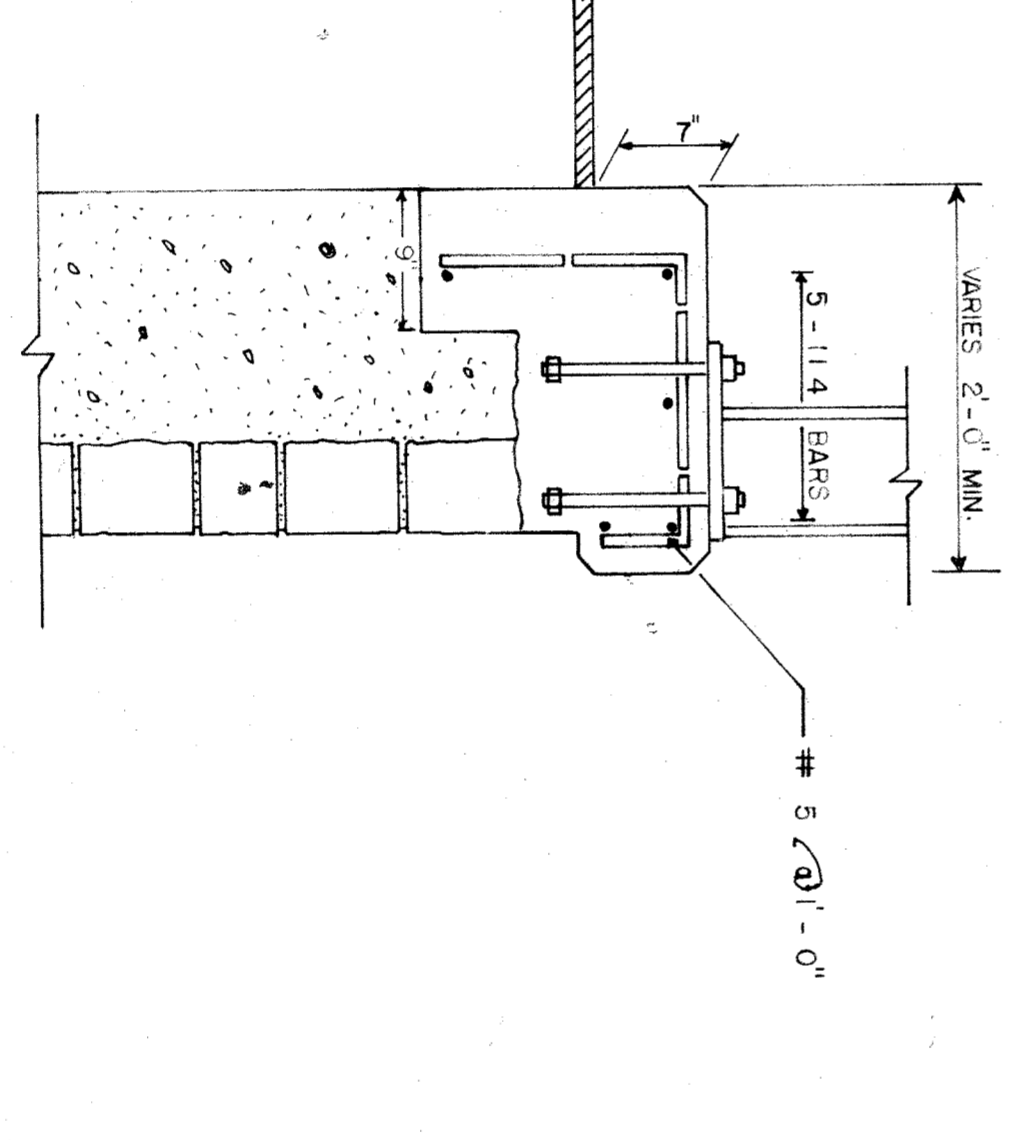
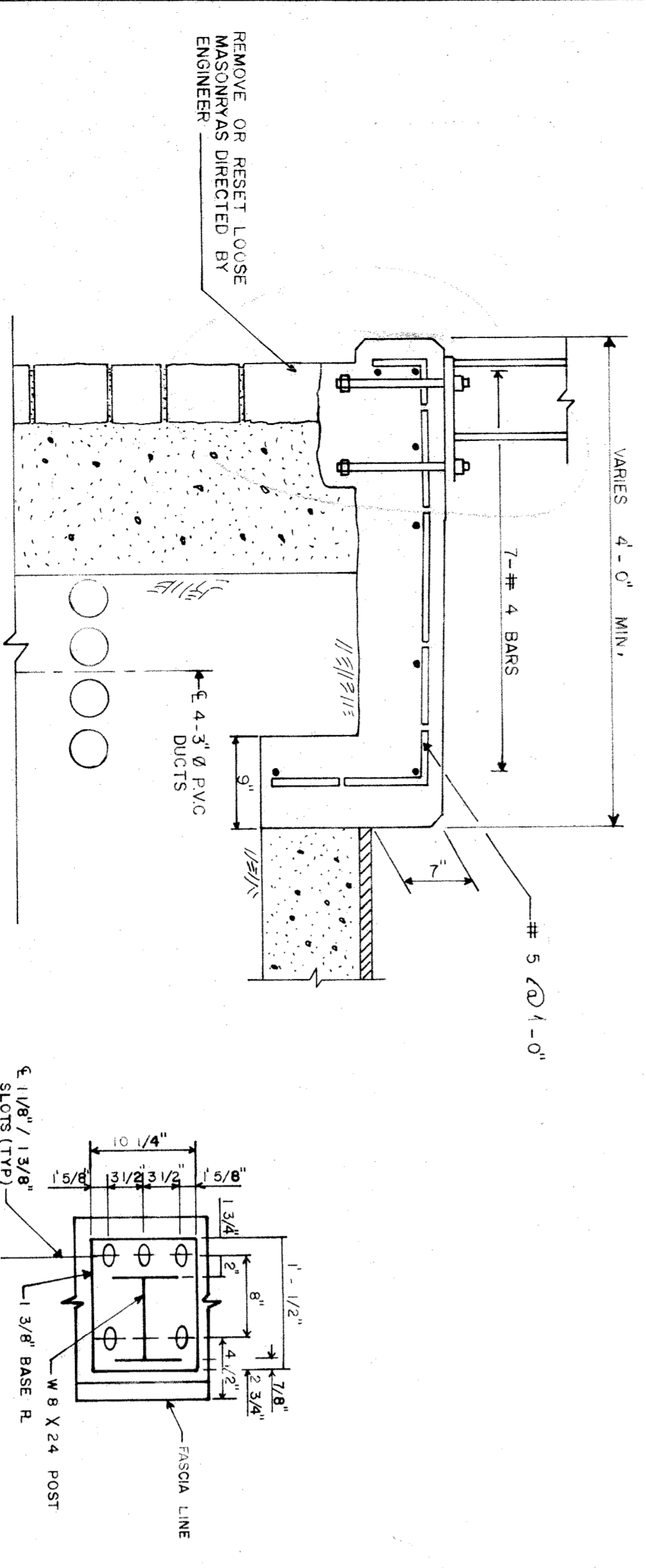
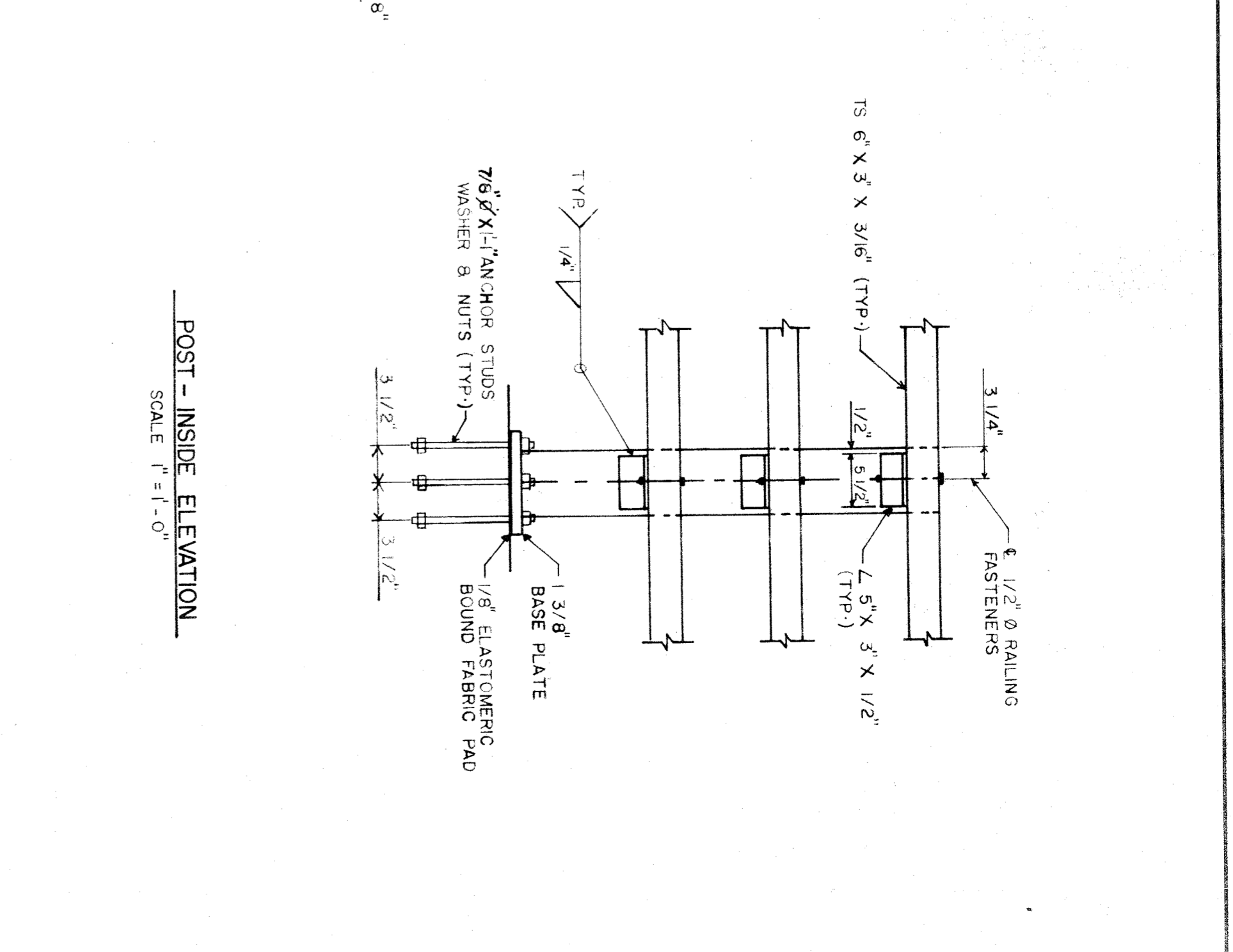
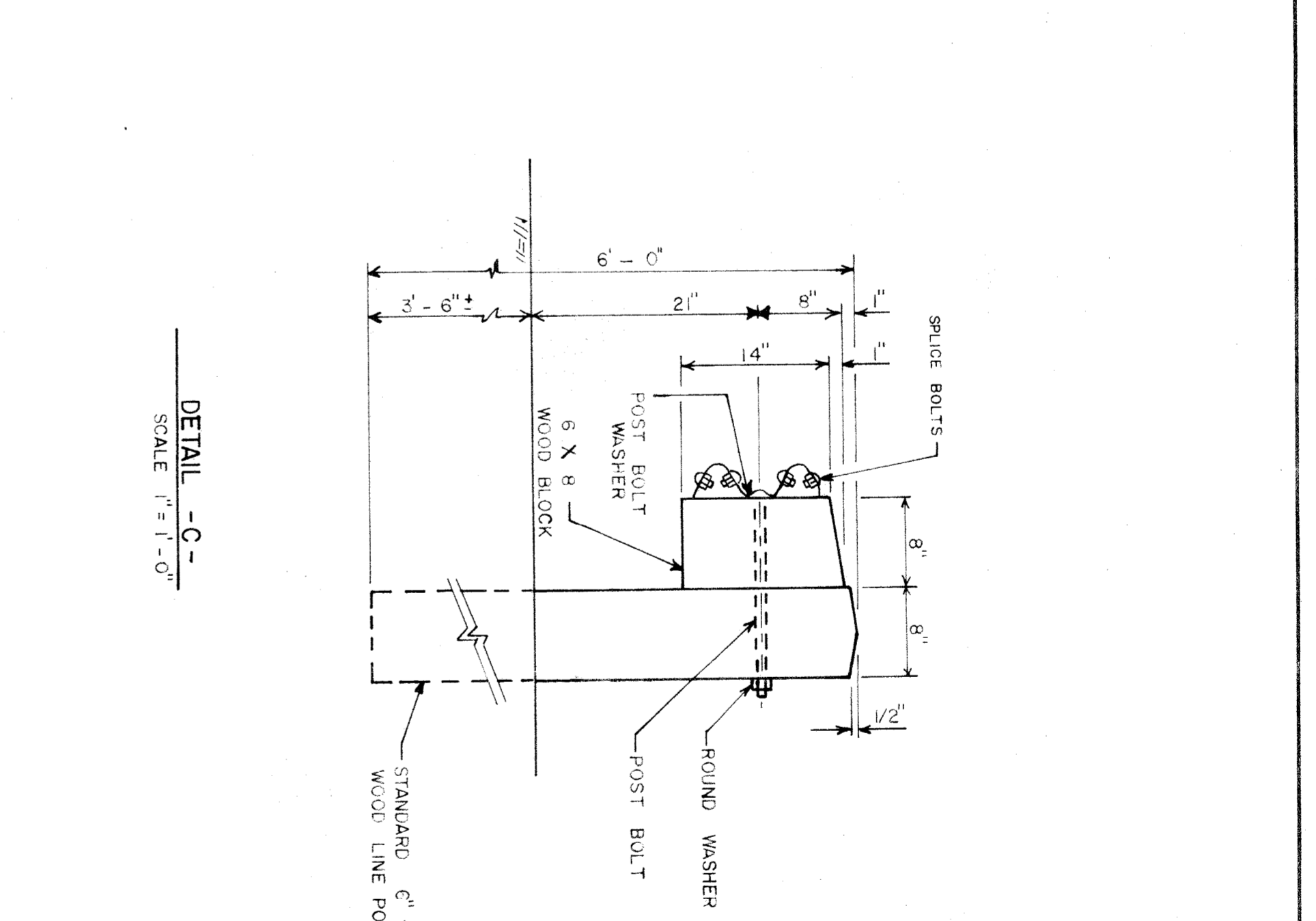
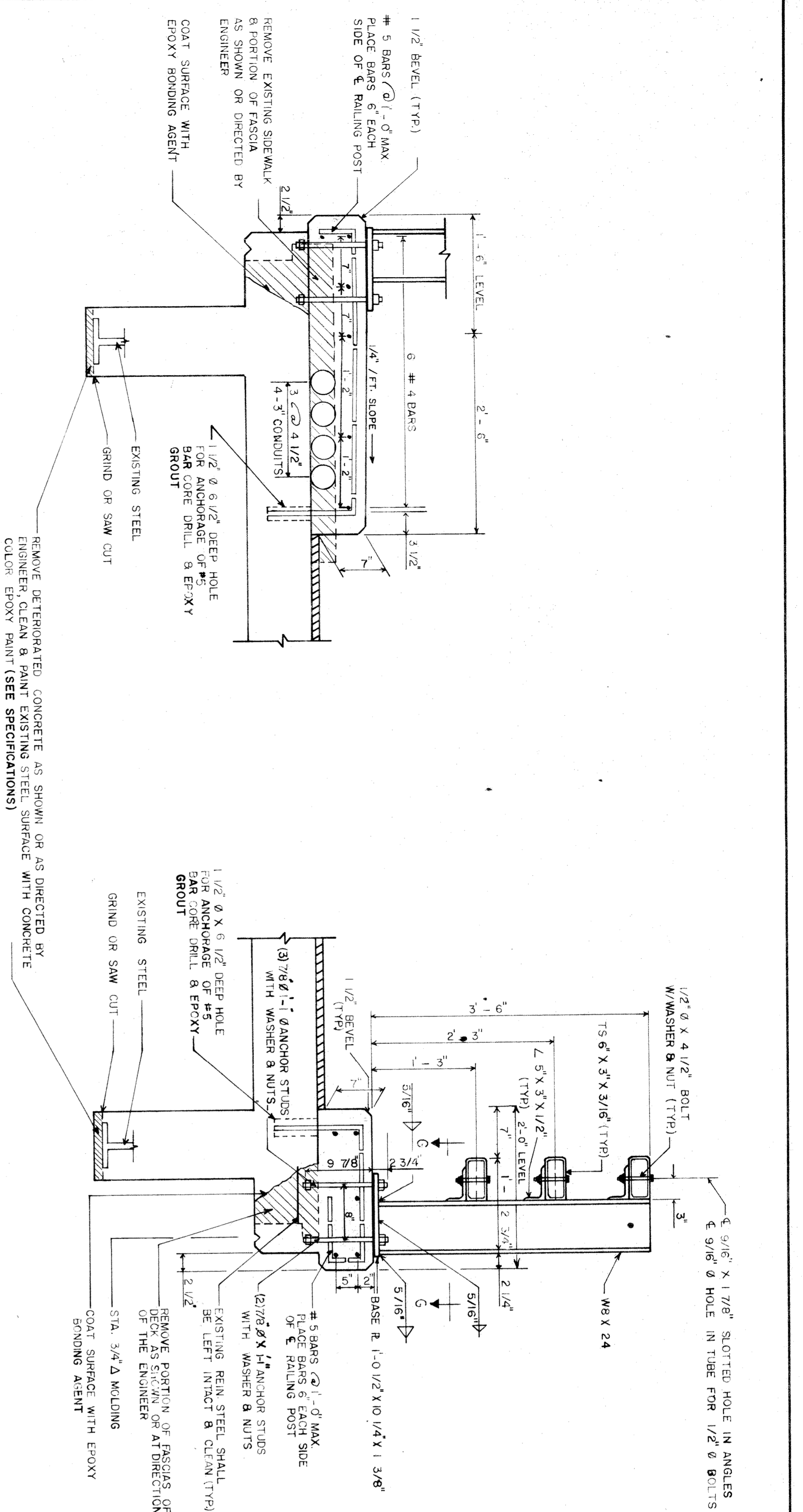
PROJECT:	CONTRACT NO.
BRIDGE REPAIRS FOR WOODSIDE OVER CANAL (BELLE ISLE) AND RIDGE ROAD OVER ROUGE RIVER.	PW-6751

PLANS PREPARED BY
CITY ENGINEERING DEPARTMENT

RECOMMENDED FOR APPROVAL	_____ T. J. [Signature]	DATE	_____/_____/87
RECOMMENDED FOR APPROVAL	_____ [Signature]	DATE	4-2-87
APPROVED	_____ [Signature]	DATE	_____/_____/86
APPROVED	_____ [Signature]	DATE	_____/_____/86
DATE	10/31/86	DRWG. NO.	1 of 5

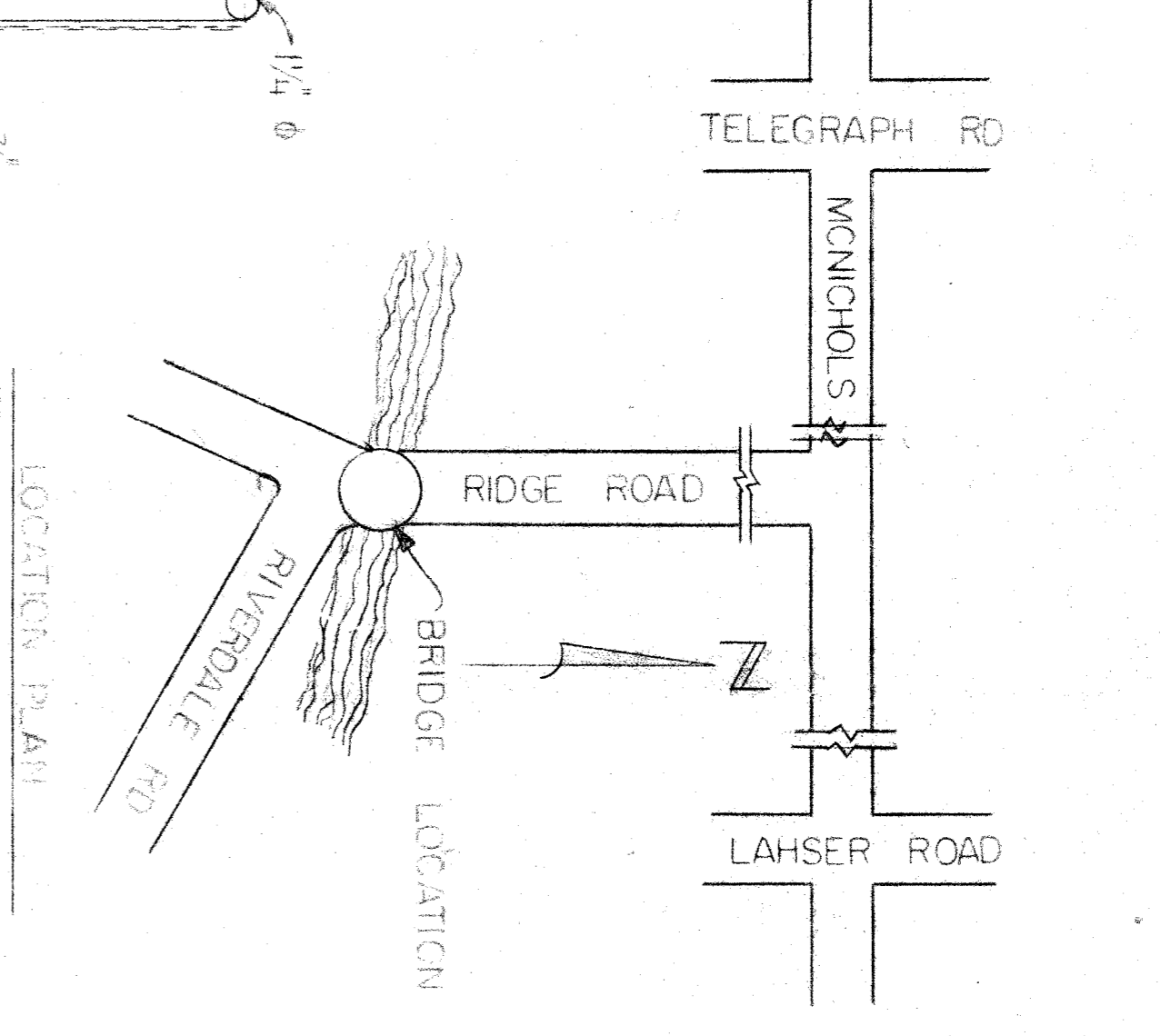
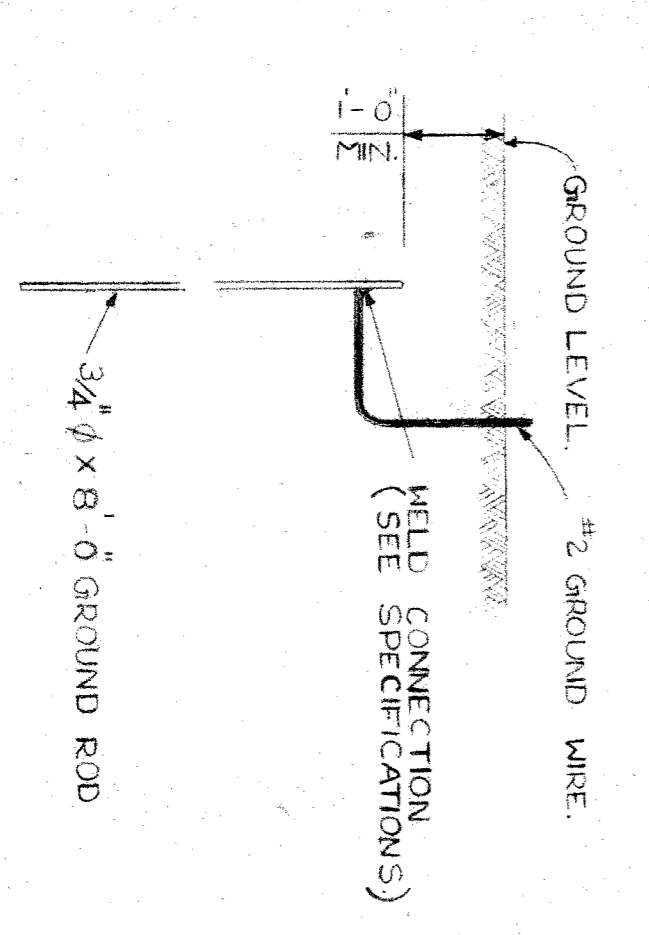
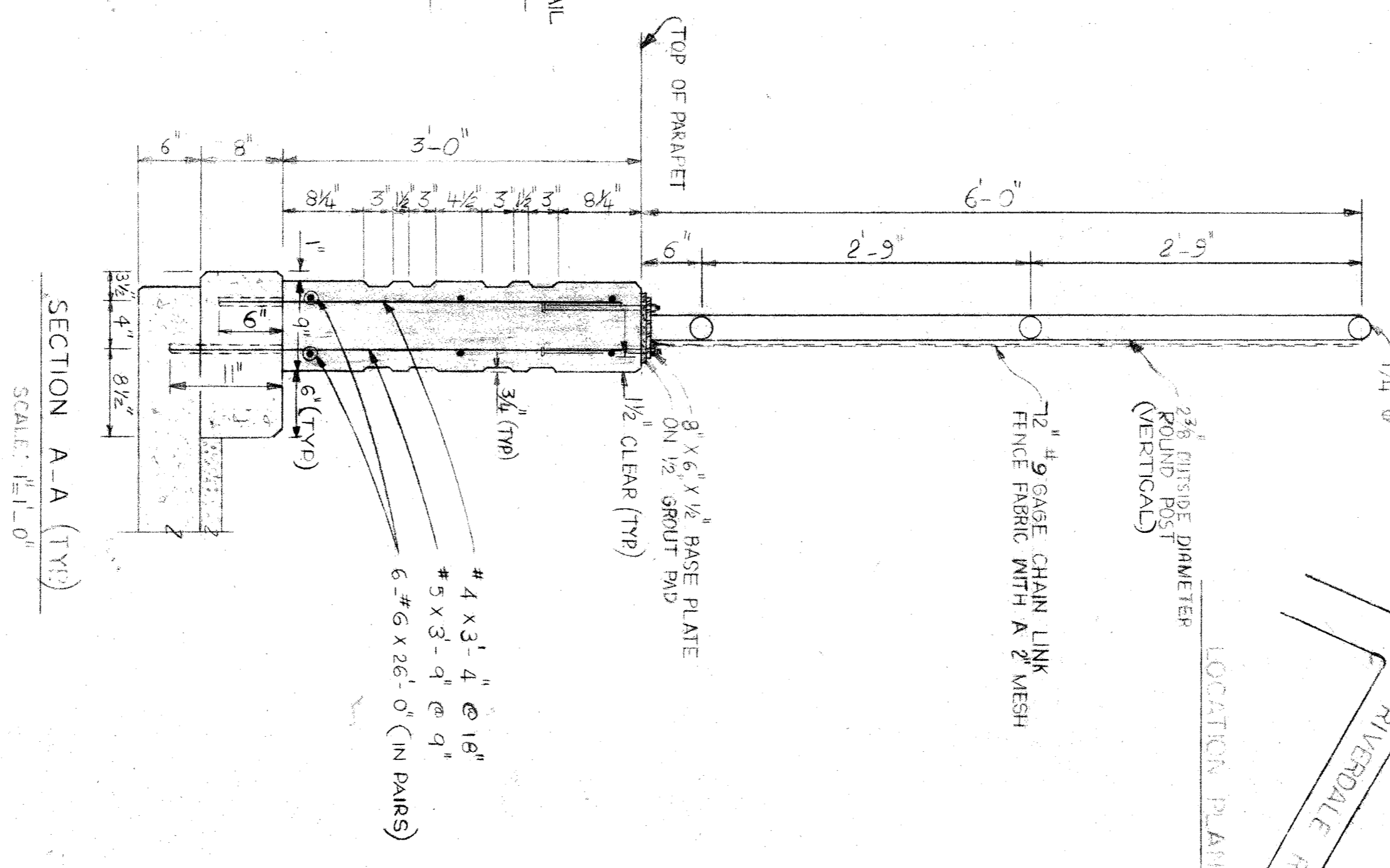
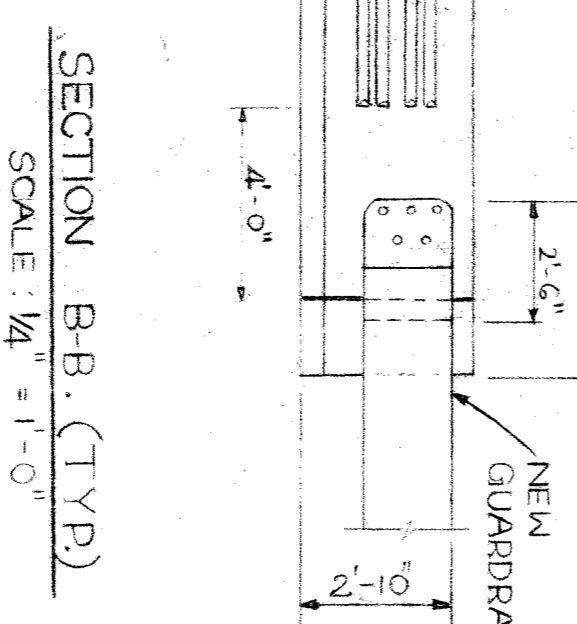
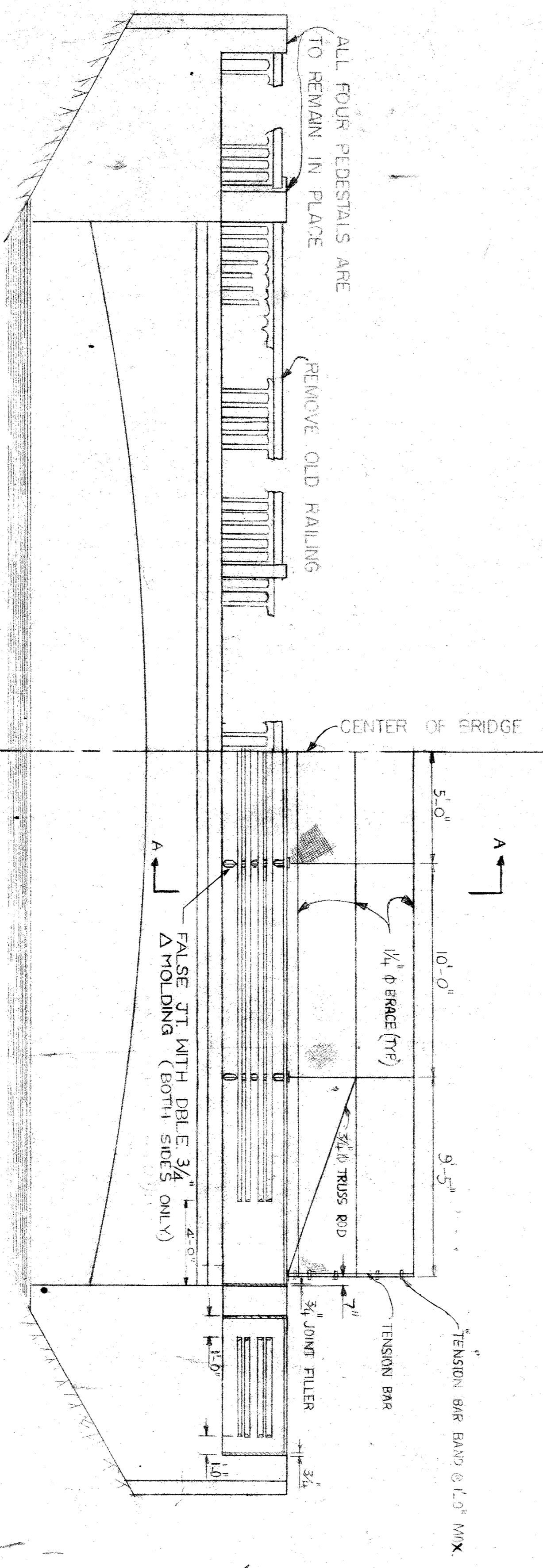
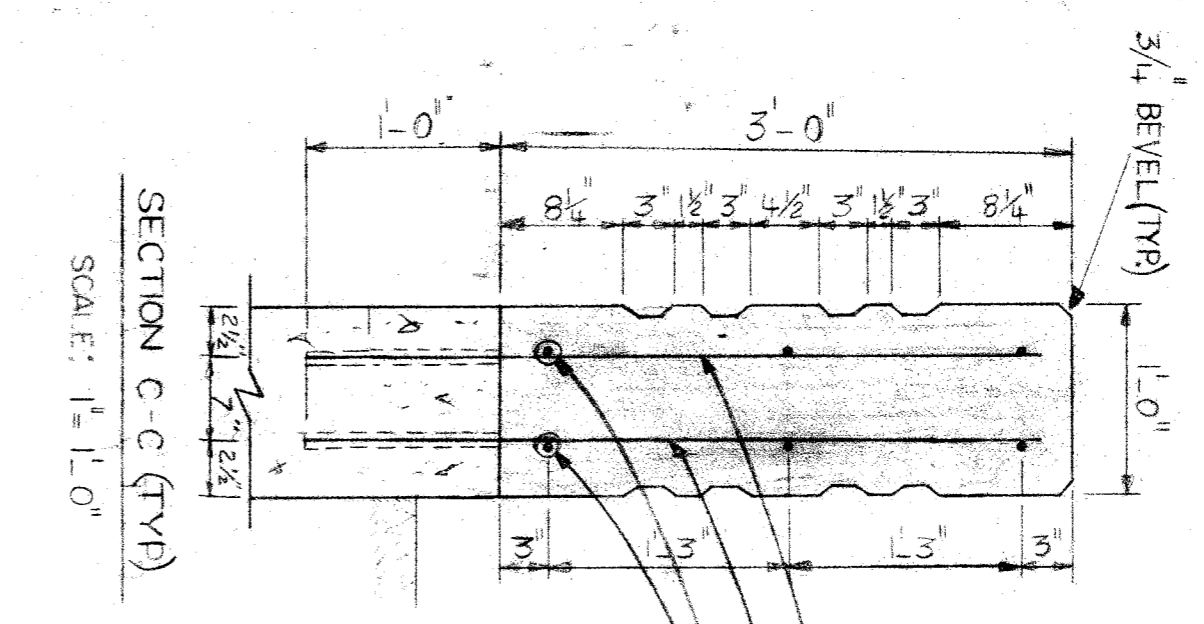
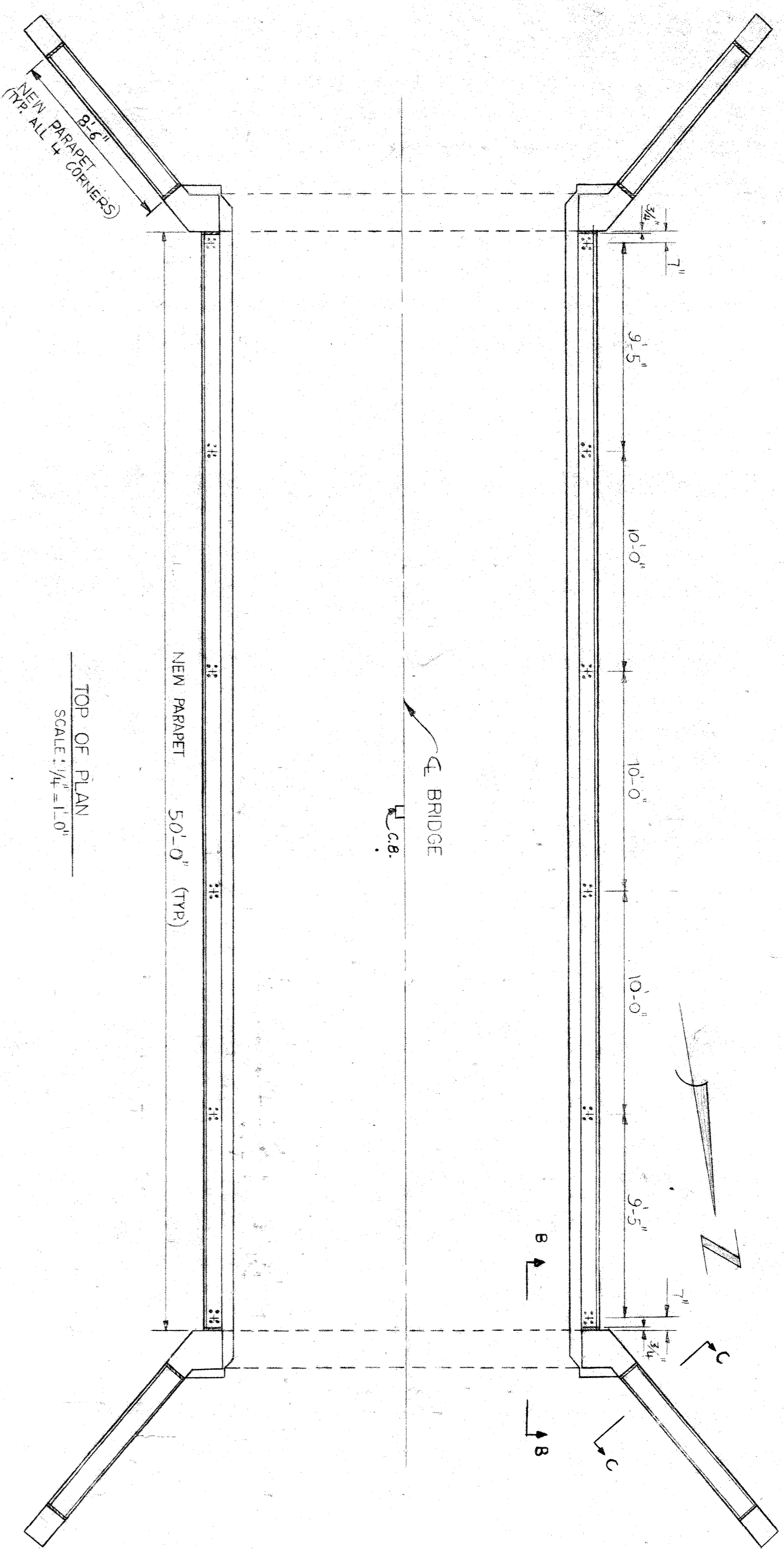


DESIGNED BY H. DICKOW		APPROVED STRUCTURAL ENGINEER	
DRAWN BY H. DICKOW		HEAD ENGINEER	
CHECKED BY M. CHAN			
<p style="text-align: center;">CITY OF DETROIT CITY ENGINEERING DEPARTMENT FOR DEPARTMENT OF PUBLIC WORKS</p> <p style="text-align: center;">WOODSIDE BRIDGE OVER CANAL (BW-216) BRIDGE REPAIR PLAN</p>			
SHEET 2 OF 5 SHEETS		CONTRACT PW-6751	
NO. ASSIGNMENT		DATE 10-31-86	



- GENERAL NOTES**
- EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSALS AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 1984 EDITION.
 - CONCRETE GRADE 4500 PSI (EPOXY COATED) $f_y = 60,000$ PSI
 - STEEL REINFORCEMENT (EPOXY COATED) $f_y = 60,000$ PSI
 - FOR BEAM AND RAIL TYPE B AND BRIDGE RAILING NOTES AND DETAILS (SEE SPECIFICATIONS)
 - THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL DEVICES AS SPECIFIED UNDER "TRAFFIC MAINTENANCE AND CONTROL", SECTION 631 OF MDOT STANDARD SPECIFICATION
 - BITUMINOUS FALSE JOINTS SHALL BE PAVED OVER AS IF THEY DID NOT EXIST. THEY SHOULD THEN BE SAW CUT TO A DEPTH OF 1 1/2". ROUND BUTYL RUBBER BACK UP ROD SHALL BE INSERTED AND THE TOP 1/2" FILLED WITH ALLEED PRODUCTS #900S, HOT Poured SEALANT, OR APPROVED EQUAL
 - APPLY PENETRATING CONCRETE SEALER TO SIDE WALK, BRUSH BLOCK AND CURB FACE (SEE SPECIFICATIONS)
 - PROVIDE EXPANSION SLEEVES FOR 3" SCHEDULE 40 PVC CONDUIT AT ADJUSTMENTS
 - METHOD OF DRILLING SHALL BE WITH HIGH SPEED ROTARY DRILL APPROVED BY THE ENGINEER
 - BLAST CLEAN EXPOSED REBAR THOSE BARS THAT HAVE LOST 1/4" OR MORE OF THEIR ORIGINAL DIAMETER SHALL BE SUPPLEMENTED BY SPLICING IN NEW BARS.
 - WATER REPELLENT SEALANT SHALL BE "HYDROZO CLEAR 56" MANUFACTURED BY HYDROZO COATINGS CO. OR APPROVED EQUAL. APPLICATION METHOD SHALL BE IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATION

1	2	3	4	5	6	7	8	9	10	11
<p>REVISIONS LOCATED BY COORDINATES ON SHEET</p>										
<p>DESIGNED BY H. DICKOW</p>			<p>APPROVED STRUCTURAL ENGINEER</p>			<p>CITY OF DETROIT CITY ENGINEERING DEPARTMENT</p>				
<p>DRAWN BY H. DICKOW</p>			<p>HEAD ENGINEER</p>			<p>WOODSIDE BRIDGE OVER CANAL (BW - 216)</p>				
<p>CHECKED BY M. CHAN</p>			<p>DEPARTMENT OF PUBLIC WORKS</p>			<p>BRIDGE REPAIR DETAILS</p>				
<p>DATE 10-31-86</p>			<p>SHEET 3 OF 5 SHEETS</p>			<p>CONTRACT PW-6751</p>				
<p>NO.</p>			<p>ASSIGNMENT</p>			<p>DATE</p>				



PARAPET AND FENCING NOTES

ALL WORK SHALL CONFORM TO MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1984 EDITION.

ALL FENCE FABRIC SHALL BE GALVANIZED, #9 GAGE WITH #2 WESH, AND FURNISHED WITH KNUCKLING AT BOTH SELWAGES.

THE POSTS SHALL BE ROUND POSTS HAVING AN OUTSIDE DIAMETER OF 2 3/8" AND WEIGHT 3.65 P.L.F., GALVANIZED.

THE NOMINAL 1 1/4" Ø PIPE SHALL BE 1 5/8" Ø OUTSIDE DIAMETER STEEL PIPE OR TUBING WEIGHING 227 P.L.F., GALVANIZED.

ALL POSTS AND TUBING SHALL BE FURNISHED WITH MANUFACTURERS' STRAPPED CONNECTIONS AND ITS MINIMUM WEIGHT SHALL BE 475% OF THAT SPECIFIED.

ALL COMPONENTS ARE TO BE GALVANIZED. BOLTS, NUTS AND WASHERS ARE TO BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A153.

TENSION BAR SHALL BE 3/4" x 1/4" GALVANIZED STEEL.

CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE FABRICATION.

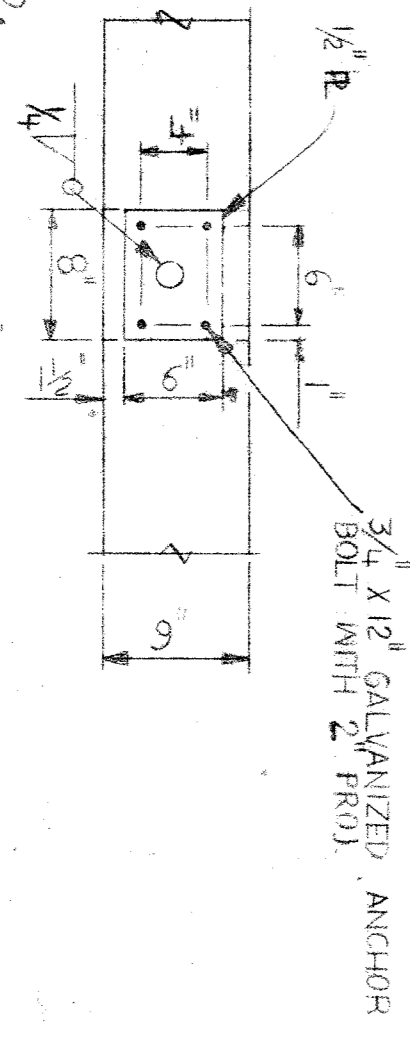
DRILLED HOLES MUST BE TWICE THE BAR DIAMETER AND THEN THE BARS SHALL BE SET IN EPOXY GROUT.

NEW PARAPET CONCRETE SHALL BE GRADE 45D. ALL STEEL REINFORCEMENT MUST BE EPOXY COATED BAR, GRADE 60.

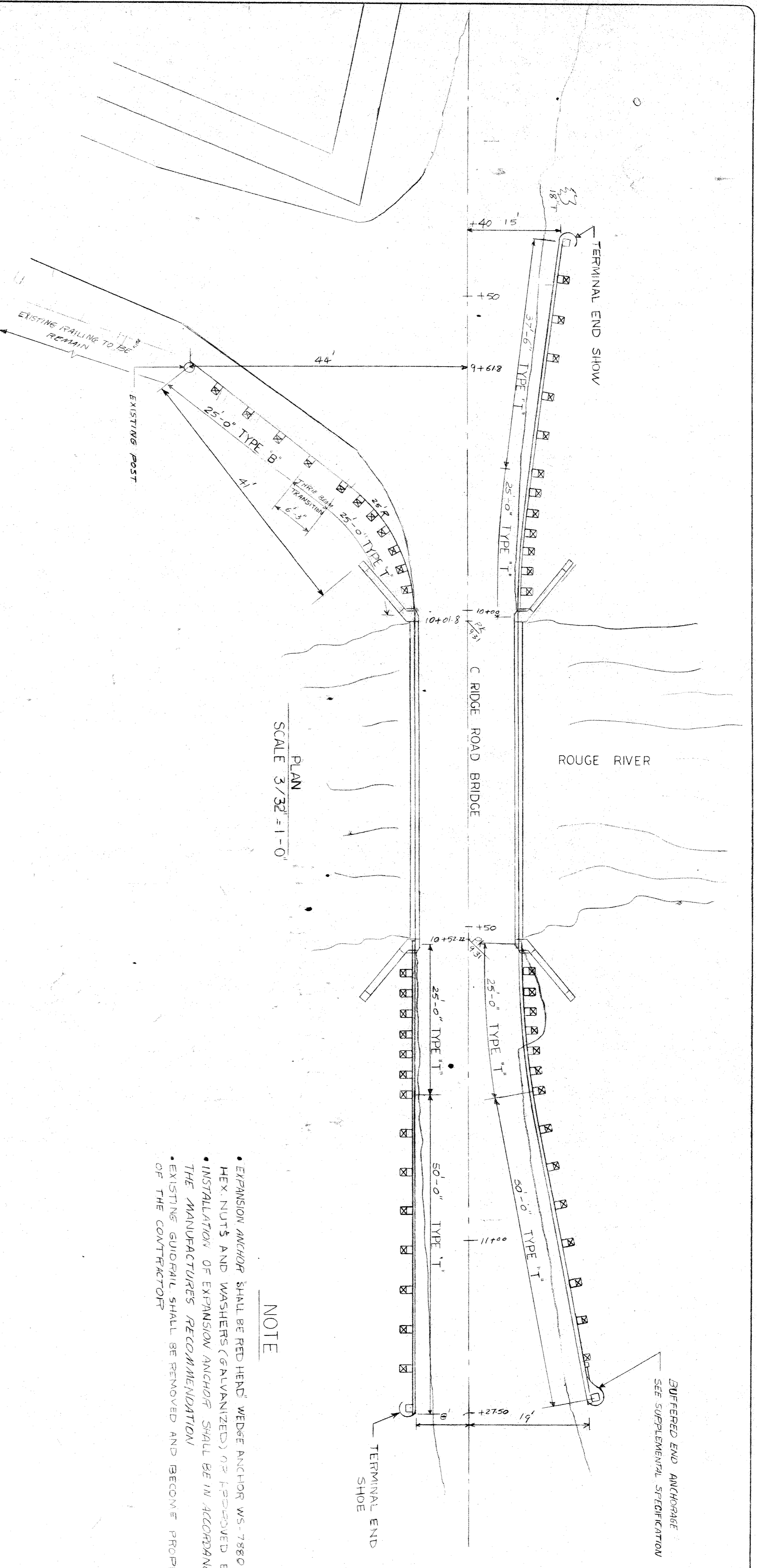
ALL EXPOSED NUTS SHALL BE PROTECTED FROM VANDALISM BY PENNING, SCORING, UNSCRETING THE BOLT THREADS, OR OTHER ACCEPTABLE MEANS.

PROVIDE AN ELECTRICAL GROUNDING SYSTEM FOR EACH FENCE AS INDICATED IN THE DETAILED SPECIFICATIONS.

BASE PLATE DETAIL



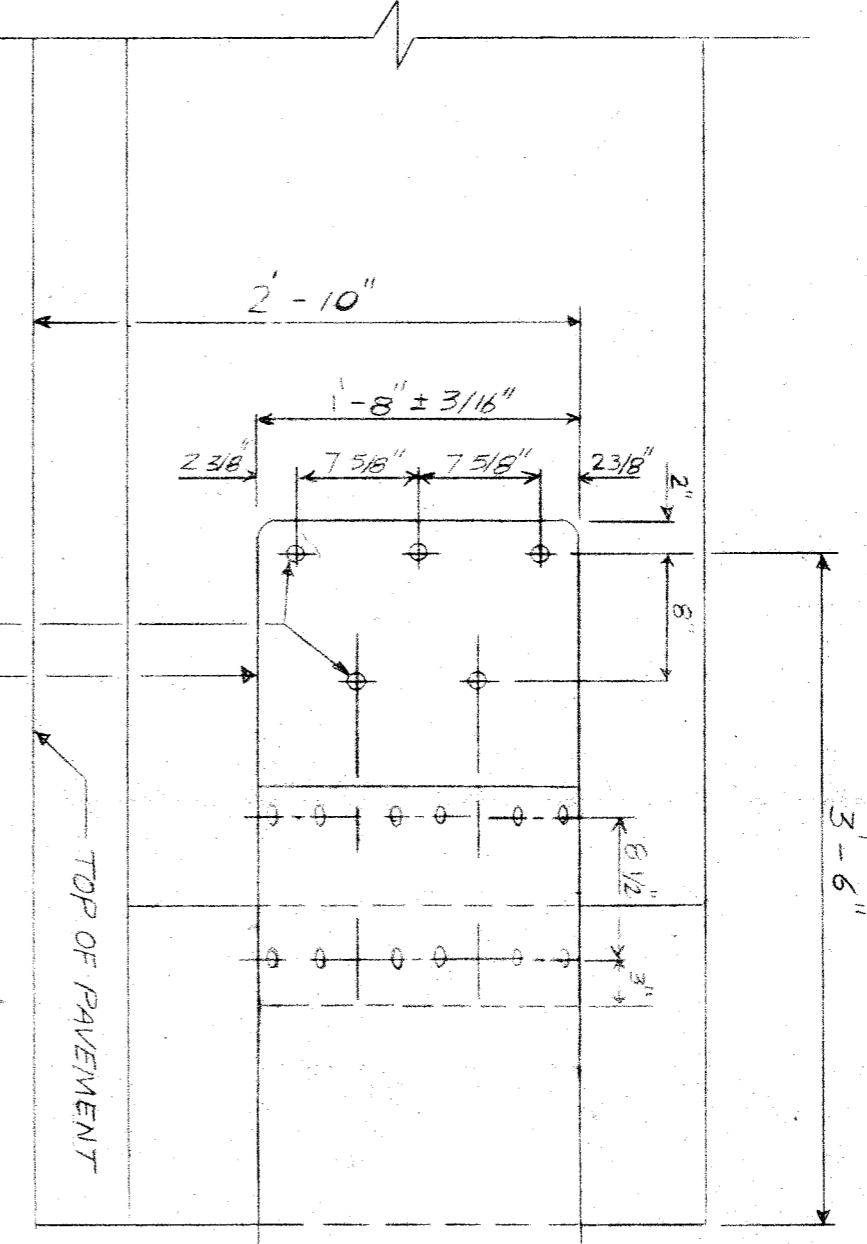
<p>CITY OF DETROIT city engineering department for DEPARTMENT OF PUBLIC WORKS</p>	<p>OVER RIDGE ROAD BRIDGE</p>	<p>CONCRETE RAILING REPLACEMENT</p>	<p>designed by ALH. drawn by H.H./J.Y. checked by W.S. approved: [Signature] STRUCTURAL ENGINEER HEAD ENGINEER</p>	<p>revisions</p> <table border="1"> <tr> <th>no.</th> <th>description</th> <th>date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	no.	description	date																		
no.	description	date																							
<p>a.o. contract no. PW-6751 sheet 4 of 5 drawing no. date 10-31-86</p>	<p> </p>	<p> </p>	<p> </p>																						



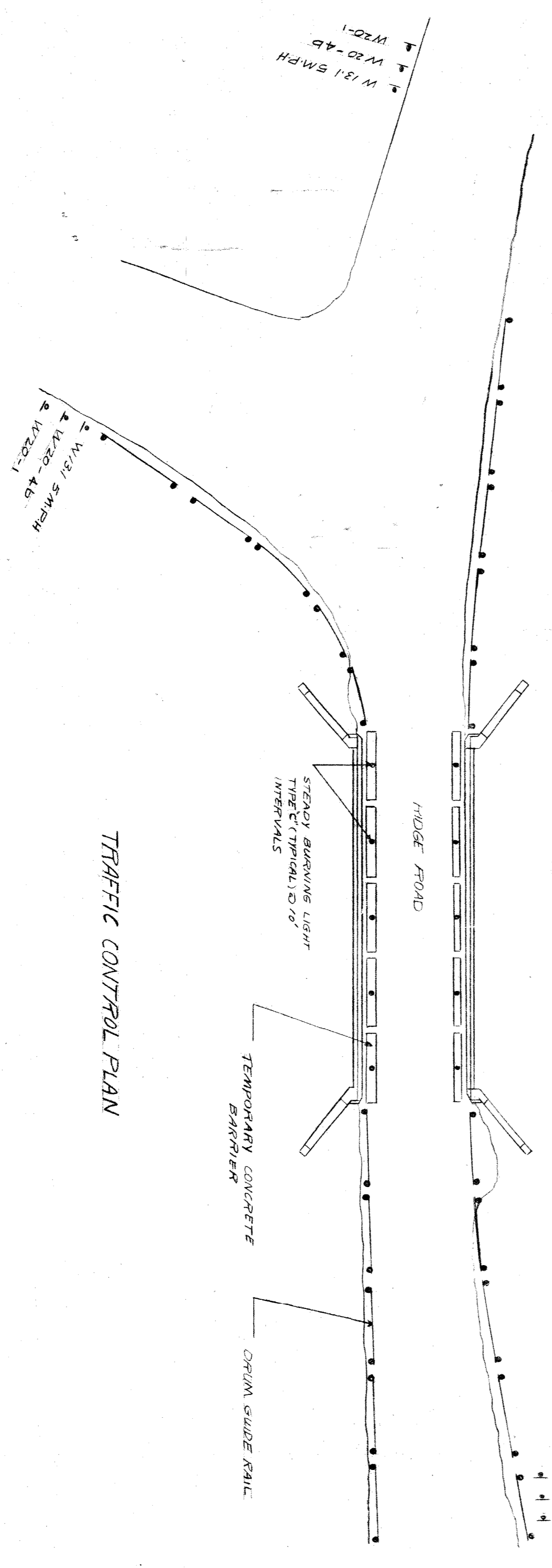
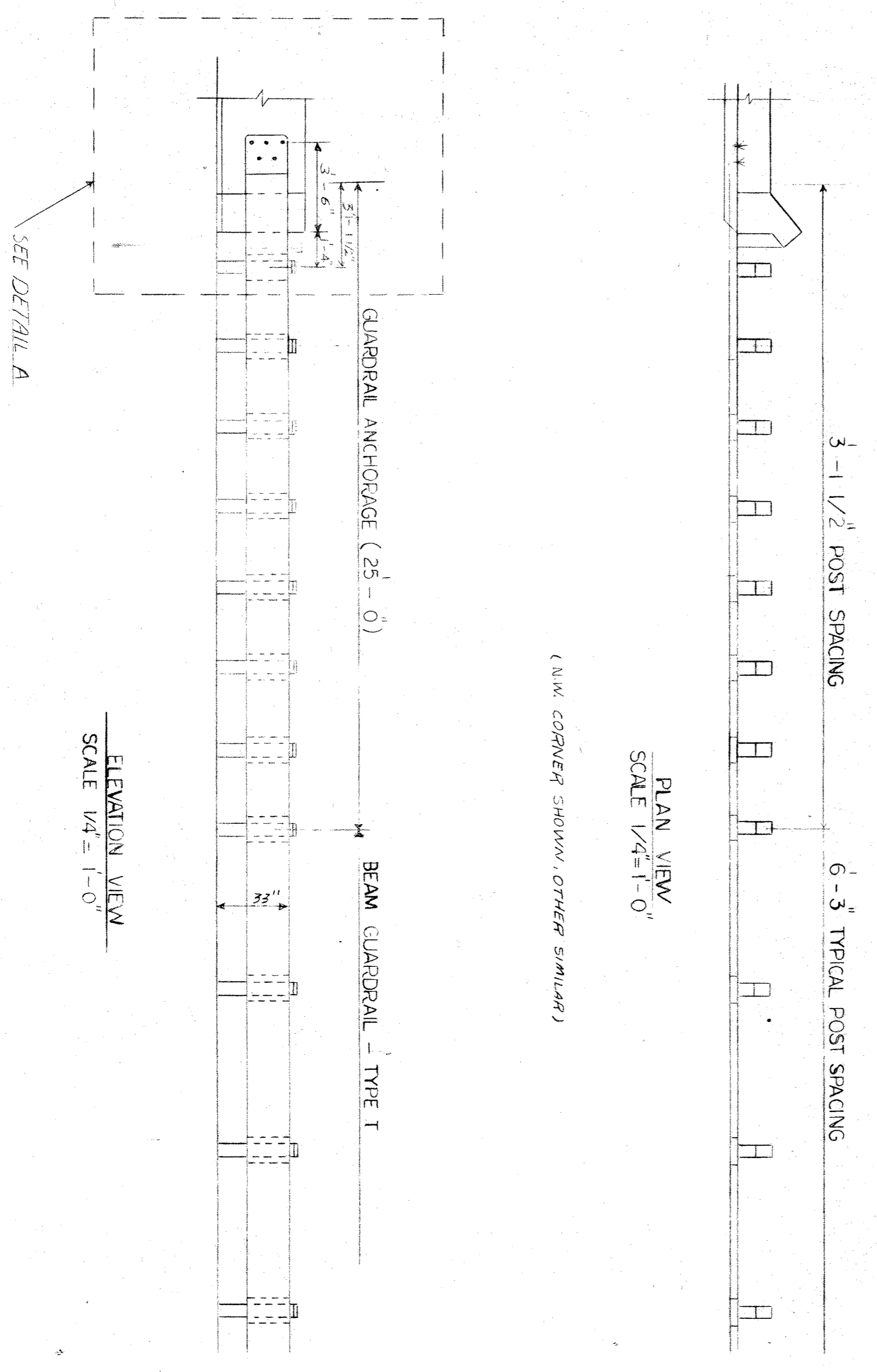
NOTE

- EXPANSION ANCHORS SHALL BE RED HEND WEDGE ANCHOR WS-7880 G WITH HEX NUTS AND WASHERS (GALVANIZED) OF PROVED EQUAL
- INSTALLATION OF EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION
- EXISTING GUARDRAIL SHALL BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR

DUFFERED END ANCHORAGE
SEE SUPPLEMENTAL SPECIFICATION



DETAIL - A -
SCALE 1" = 1'-0"



TRAFFIC CONTROL PLAN

TRAFFIC DEVICE KEY

- W31 SPEED LIMIT 5 M.P.H
- W20-4b MATCH FOR ONCOMING TRAFFIC
- W20-1 CONSTRUCTION AHEAD

NOTE: MAINTAIN ONE LANE (1) OF TRAFFIC AT ALL TIMES
REVERSE PROCEDURE FOR OPP SIDE

a.o. contract no. PW-6751	sheet 5 of 5 drawing no. date 10-31-86	CITY OF DETROIT city engineering department for DEPARTMENT OF PUBLIC WORKS	RIDGE ROAD BRIDGE OVER ROUGE RIVER BW-283 GUARDRAIL REPLACEMENT	designed by H. DICKOW drawn by H. DICKOW checked by M. CHAN approved: [Signature] STRUCTURAL ENGINEER HEAD ENGINEER	revisions table with columns: dr, n, ck, d, ap, v'd, date
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