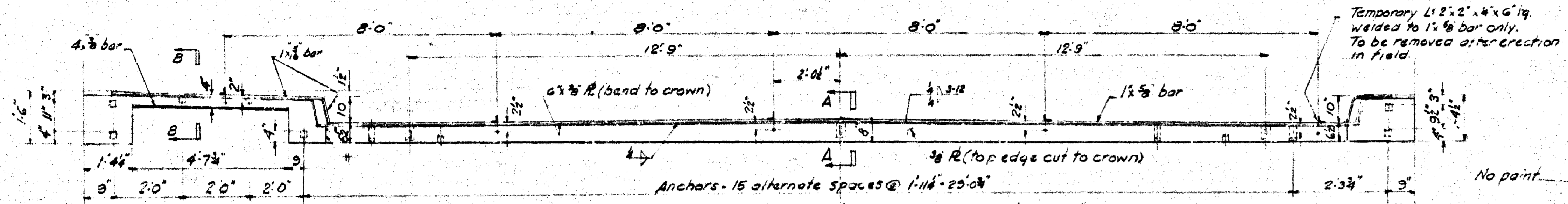


SECTION A-A
58'-0" Stringers
Inner stringer as shown
Outer stringer similar except as noted
Scale: 1/2"=1'-0"

- NOTES:**
1. Prestressing strands to be #7 (twire) uncoated strands (Eoabing S.R. grade or equal). Minimum ultimate tensile strength = 20,000 lbs per strand. Tensile load at time of release of strands = 10,000 lbs per strand.
 2. Concrete: Minimum compressive strength of concrete at time of release of strands = 4,500 psi. Minimum compressive strength of concrete at 28 days = 5,500 psi.
 3. Reinforcing to have 1/2" min cover unless noted.
 4. Reinforcing to be structural grade; splices to be staggered; lap of bars to be 40x d.
 5. Lengths of stringers given (28) are to be afforded at 28 days after placing concrete.
 6. Paint ends of stringers with asphaltic material.
 7. Expansion bearings to be placed and grouted into position at least one day prior to stringer erection.
- 30- 58'-0" Prestressed stringers required

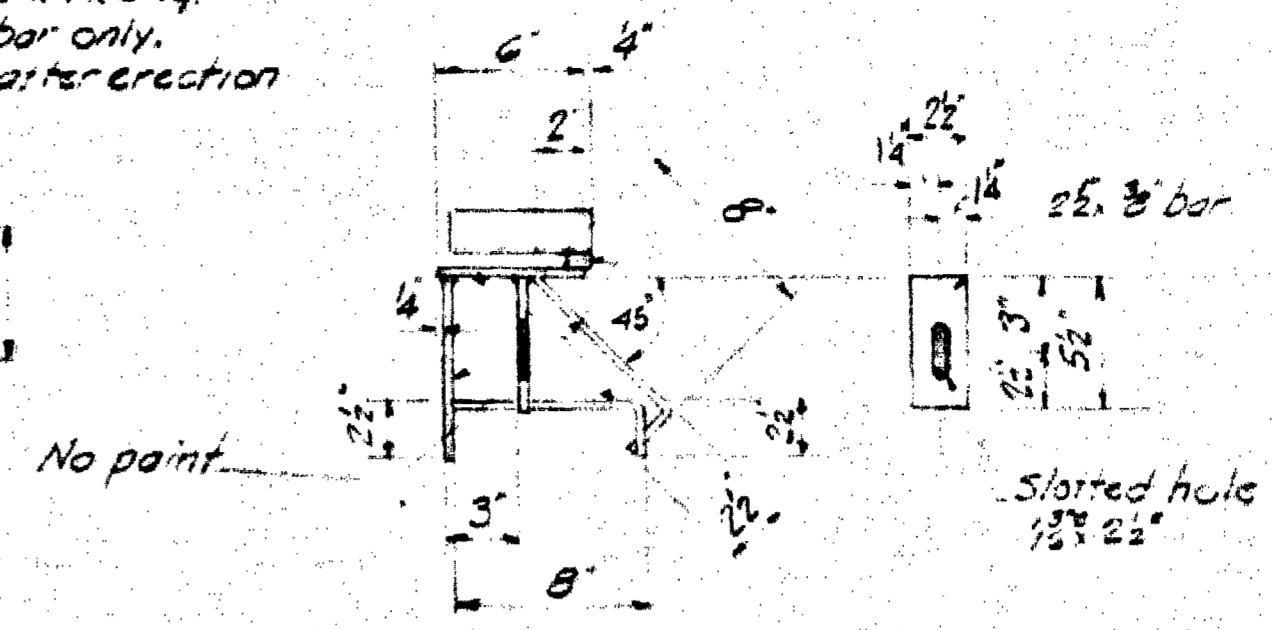
CHILLIWACK DISTRICT
TRANS-CANADA HIGHWAY MILE 108.8
DEARDONVILLE RD UNDERPASS
PRESTRESSED CONCRETE STRINGERS
SCALE: 1/2"=1'-0" AND AS NOTED

REVISIONS			GOVT. OF BRITISH COLUMBIA DEPT. OF HIGHWAYS BRIDGE ENGINEER'S OFFICE								
Rev.	Particulars	Date									
1	As Drawn	1/1/66	<table border="1"> <tr> <td>Made by</td> <td>Date</td> <td rowspan="2">DRAWING NO.</td> </tr> <tr> <td>Checked by</td> <td>Date</td> </tr> <tr> <td>Approved</td> <td></td> <td>1615-5</td> </tr> </table>	Made by	Date	DRAWING NO.	Checked by	Date	Approved		1615-5
Made by	Date	DRAWING NO.									
Checked by	Date										
Approved		1615-5									

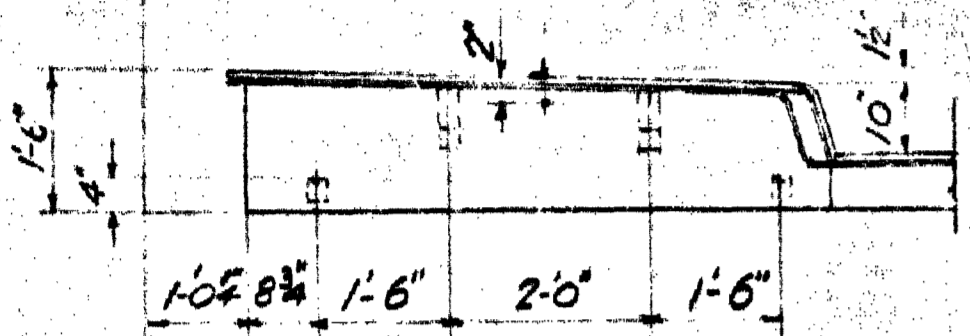


Note: All anchors made from 2 x 3/8 bars

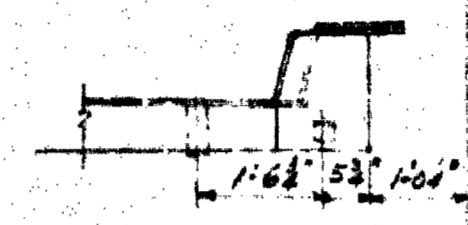
FLOOR PLATE MK A (as shown) - 1 Req^d Wt. 880^{lb} each
 FLOOR PLATE MK C^R (similar except as shown) - 1 Req^d Wt. 945^{lb} each
 FLOOR PLATE MK C^L (opposite hand) - 1 Req^d Wt. 945^{lb} each



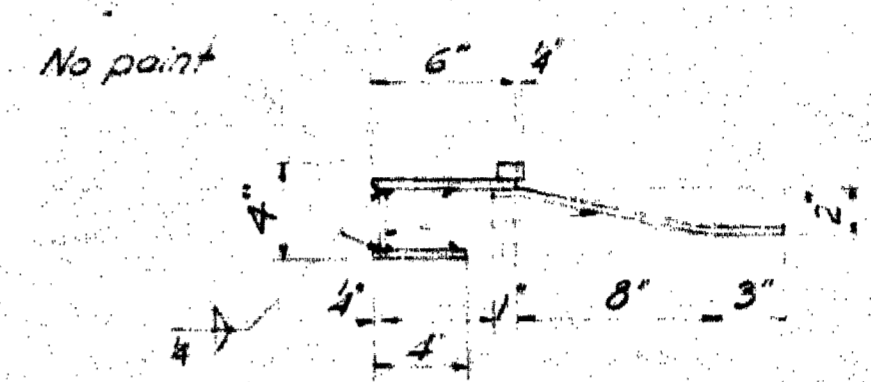
SECTION A-A
Scale 1/2" = 1'-0"



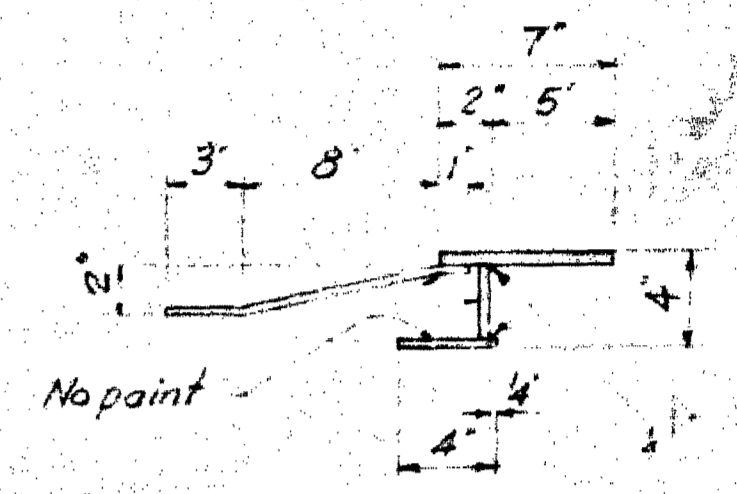
DETAIL FOR MK C R



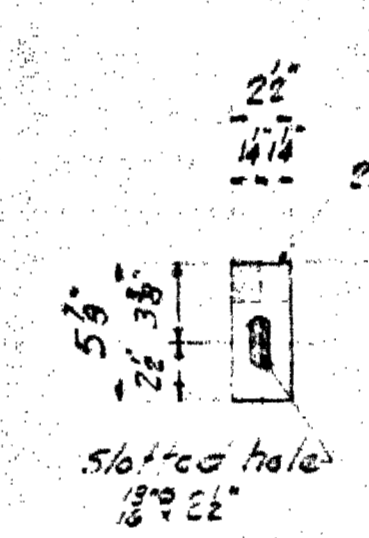
DETAIL FOR MK C L



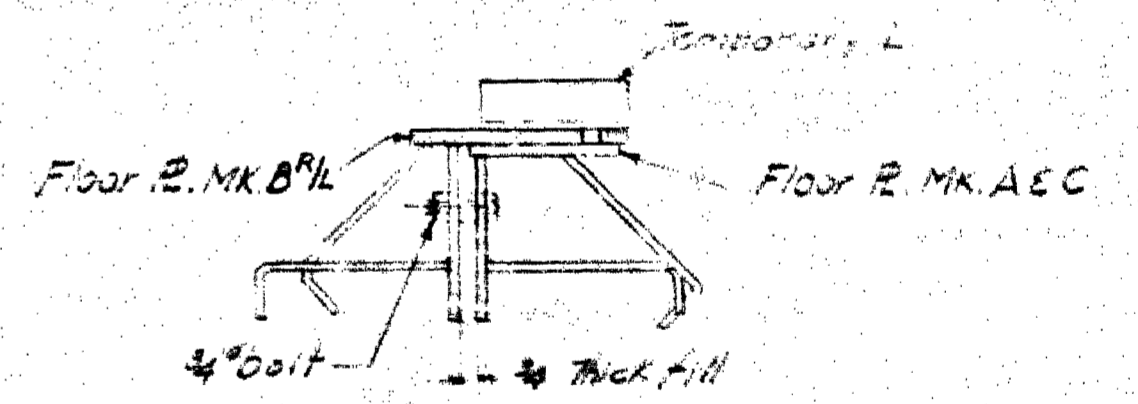
SECTION B-B
Scale 1/2" = 1'-0"



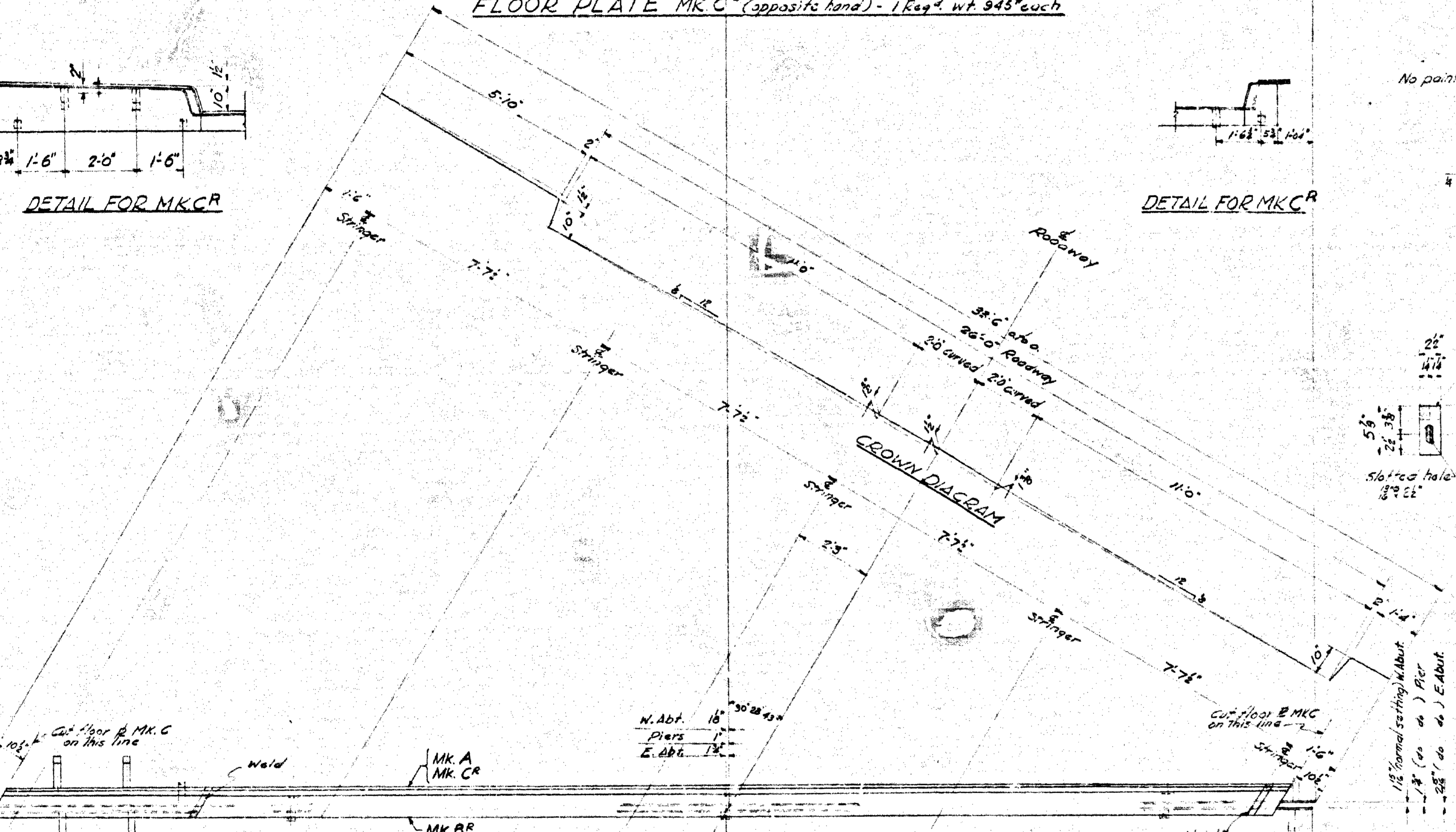
SECTION D-D
Scale 1/2" = 1'-0"



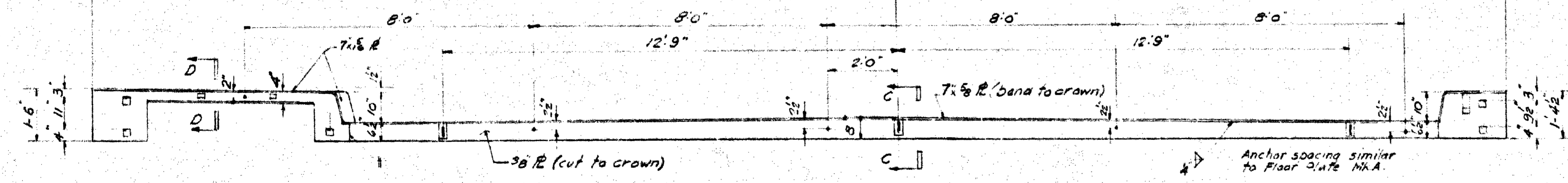
SECTION C-C



ASSEMBLY OF FLOOR PLATES FOR SHIMMENT



PLAN OF EXPANSION JOINT



FLOOR PLATE MK B (as shown) - 2 Req^d Wt. 1100^{lb} each
 FLOOR PLATE MK B C (opposite hand) - 1 Req^d Wt. 1100^{lb} each

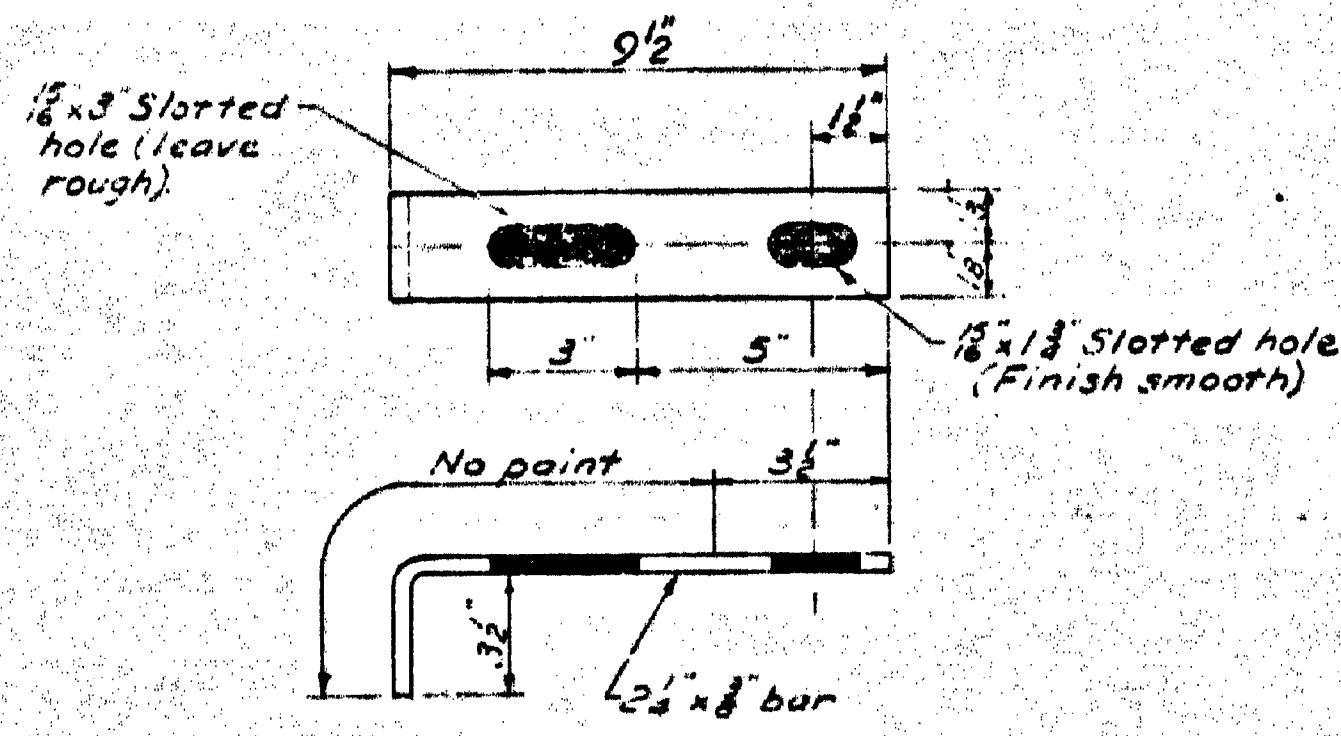
NOTES:
 1. All holes 1/2" except as noted.
 2. Paint all steelwork one shop coat red lead except as noted.

CHILLIWACK DISTRICT
 TRANS-CANADA HIGHWAY MILE 108.81
 PEARDONVILLE RD. UNDERPASS
 FLOOR PLATES
 SCALE: 1/2" = 1'-0" AND AS NOTED

REVISIONS			
Rev.	Particulars	Init.	Date
A	Floor plate anchor spacing changed from 18" to 12"-9"	W.A.	Apr 24/63
B	As built	W.A.	Feb 1/63

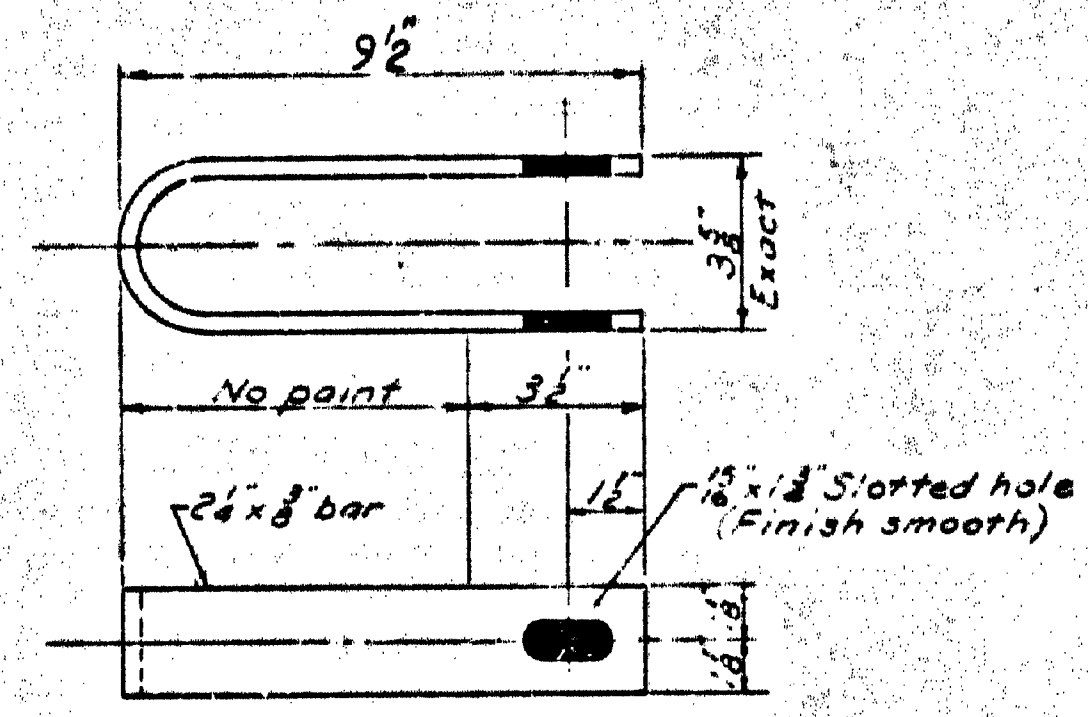
GOVT. OF BRITISH COLUMBIA
 DEPT. OF HIGHWAYS
 BRIDGE ENGINEER'S OFFICE

Made by	Init.	Date	DRAWING NO.
Checked by	Init.	Date	
Approved by	Init.	Date	1615-7 B



ANCHOR Mk. A5

8 Req'd
Estimated wt. each 3.0 lbs.



ANCHOR Mk. A6

8 Req'd
Estimated wt. each 5.0 lbs.

Scale: 3" = 1'-0"

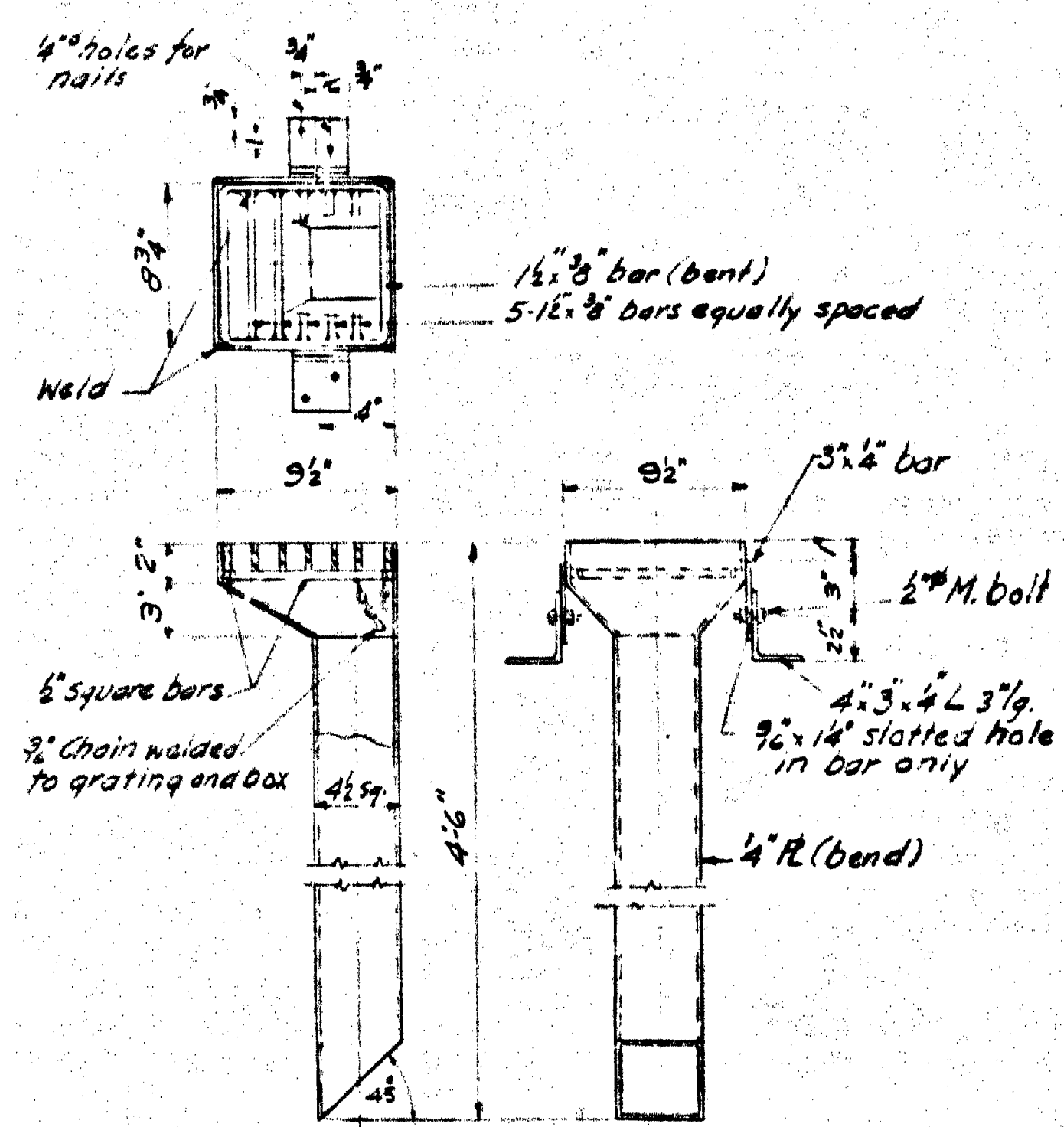
ESTIMATED WEIGHT
Total: 64 lbs.

GOVT. OF BRITISH COLUMBIA, DEPT. OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

CHILLIWACK DISTRICT
PEARDONVILLE RD. UNDERPASS
FENCE ANCHOR DETAILS

MADE BY		CHECKED BY	
INIT	DATE	INIT	DATE
V. J. L.	Dec 1958	PP	12/20/58
APPROVED:			

SK.
1615-11



DRAIN Scale 1 1/2" = 1'-0"
(Galvanized after fabrication)

12 Req'd
Estimated wt. each 107 lbs.

GOVT. OF BRITISH COLUMBIA, DEPT. OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

CHILLIWACK DISTRICT
TRANS-CANADA HIGHWAY MILE 108.81
PEARDONVILLE RD UNDERPASS
DECK DRAINS

MADE BY		CHECKED BY	
INIT	DATE	INIT	DATE
PP	12/20/58	SK	12/20/58
APPROVED:			

S. K.
1615-10

DEPARTMENT OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE
SCHEDULE OF MATERIAL
For PEARDONVILLE RD. UNDERPASS
CHILLIWACK DISTRICT
TRANS-CANADA HIGHWAY MILE 108.81

Sheet No. 1/11
Dwg. File No. 1615
Corr. File No. 995
Made by
Date Nov. 29 59
Checked by R.J.D.
Date Feb 4 60

ITEM	QUANTITY	DESCRIPTION	BILL	DRAWING	WEIGHT LBS.	REQN
SUBSTRUCTURE (including Catch basin)						
1.	3053 sks	Cement				
2.	1 lot	Reinforcing steel	X1	155A-1A	33,550	
3.	15 gals.	Air entraining agent				
4.	4 only	Floor plate anchors		SK 15A-B	69	
5.	1 set	Date mineral				
6.	12 lbs.	1/2 Dia. steel. 90° bend			53	
7.	2 sets	Traffic reflectors				
8.	4 only	Traffic reflector anchors				
9.	1 only	Trapping head		Misc. 289-5		
10.	1 only	18 x 4 x 1/2 plate		SK 15CA-1A	48	
11.	30 mts.	1/2 Dia. 1/4 in. galvanized half round metal pipe flanges				
12.	300 mts.	2 x 1/2 in. galvanized pipe and fittings				
SUPERSTRUCTURE						
13.	30 only	Prestressed concrete stringers (including sole Rs) 58" O'lg.		1615-5		
14.	160 mts.	Neoprene 8" x 19"				
15.	1 lot	Bearings		1615-6	7400	
16.	6 only	Sidewalk drains		SK 237A-1	12	
17.	1 lot	Deck drains		SK 165-10	1294	
18.	1 lot	Cutters & saws, pas.		1615-8	2700	
19.	1 lot	Floor plates		1615-7	6070	
20.	1 lot	Flange panels and anchors		SK 1615-11 1610-7E	25080	
21.	9 gal.	Paint - Red alkylid. oil base				
22.	7 gals.	Green alkylid. oil base				
23.	2 gals.	Phenolic Varnish Vehicle				
24.	5 lbs.	Aluminum paste (U.S.M.-3)				
DECK (including Approach curbs)						
25.	3053 sks	Cement				
26.	1 lot	Reinforcing steel	X2	155A-1	89,800	
27.	15 gals.	Air entraining agent				
28.	620 mts.	8" x 12" Prestressed concrete				
29.	12 only	Floor plate anchors		SK 15CA-B	128	
30.	160 mts.	4 corrugated water stop				
31.	20 gals.	Joint sealing compound (grey)				
32.	2 gals.	" " " (grey)				
33.	1 bale	Calum				

GOVERNMENT OF BRITISH COLUMBIA
DEPARTMENT OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

BILL OF REINFORCING STEEL

FOR SUBSTRUCTURE

NAME OF WORK PEARDONVILLE RD. UNDERPASS

BILL No. 1615-X1
SHEET No. 1 of 1
FILE No. 995
MADE BY M.C.M.
DATE Nov 27/59
CHECKED BY R.J.D.
DATE Feb. 4 60

ITEM No.	No. REQ'D	MARK	SIZE	LENGTH	BENDING DIMENSIONS													
					A	B	C	D	E	F	G	H	L					
1			#3	280														
2			#4	16134														
3			#5	1192														
4			#6	14187														
					Cut and bend to suit Dwg 1615-4 & 230A-1A													
					Total weight 33,450 lbs													
Reinforcing bars shall be in accordance with the Canadian Standards Association Specification for Billet Steel Reinforcing Bars No G30-1938 or with the Specification for Rail Steel Reinforcing Bars No G31-1938 and subsequent revisions thereof.																		

GOVERNMENT OF BRITISH COLUMBIA
DEPARTMENT OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

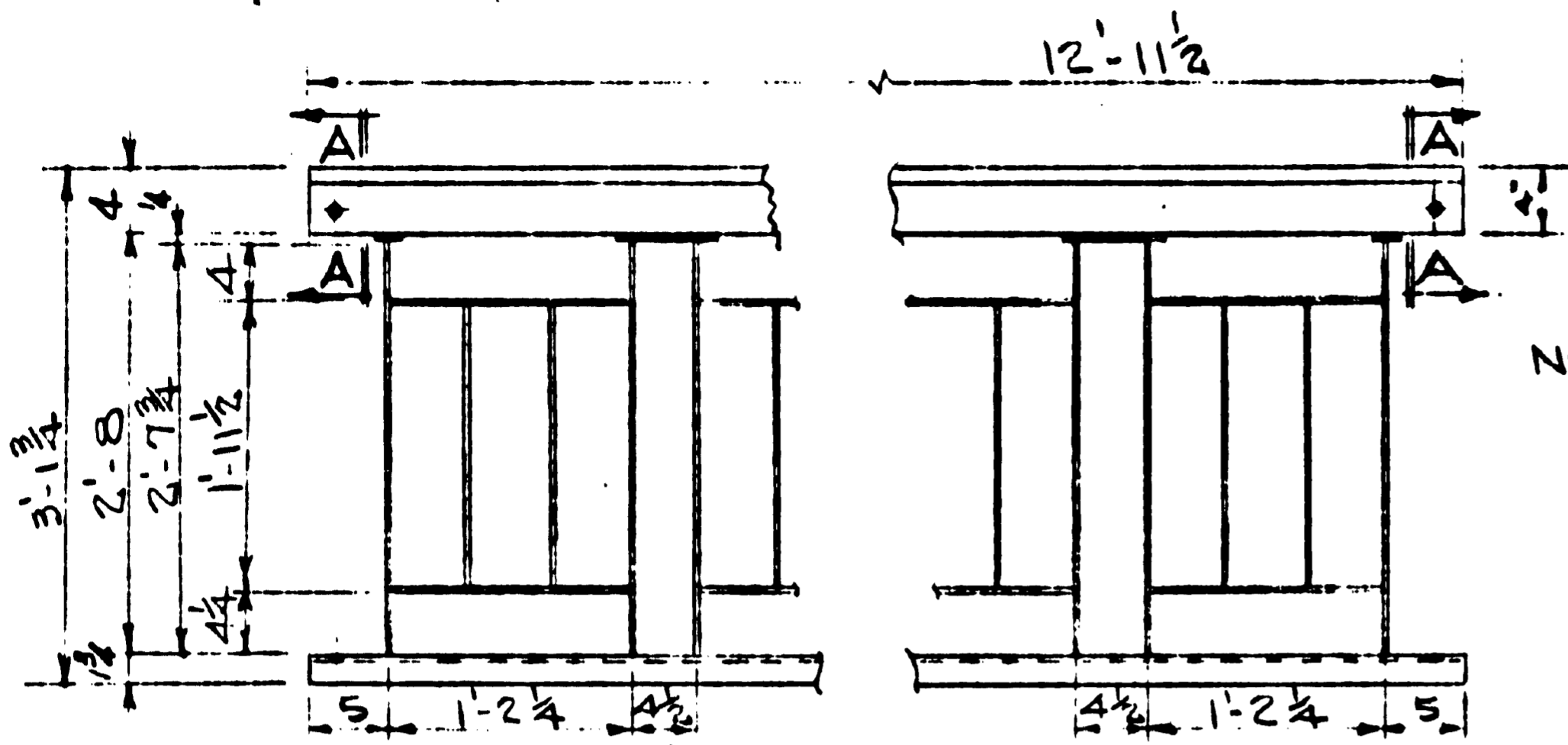
BILL OF REINFORCING STEEL

FOR DECK

NAME OF WORK PEARDONVILLE RD. U/P

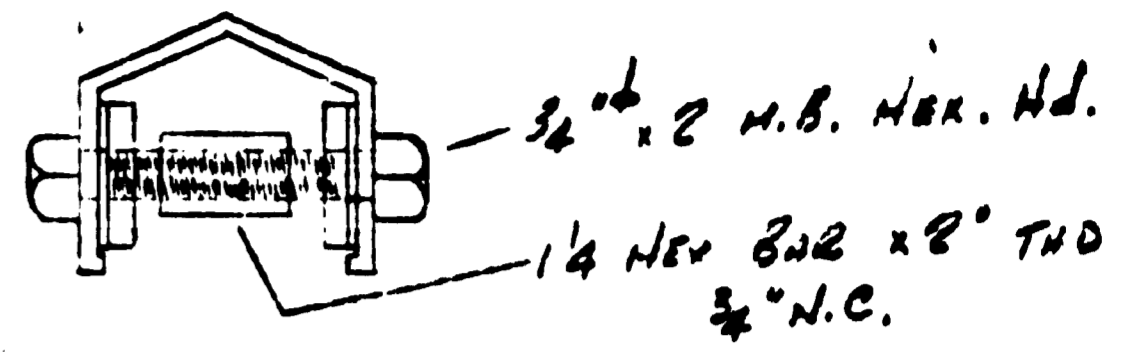
BILL No. 1615-X2
SHEET No. 1 of 1
FILE No. 995
MADE BY J.T.W.S.
DATE Jan. 18/60
CHECKED BY P.P.
DATE Feb. 4/60

ITEM No.	No. REQ'D	MARK	SIZE	LENGTH	TOTAL LENGTH	BENDING DIMENSIONS												
						A	B	C	D	E	F	G	H	L				
1			#7		1610													
2			#6		190													
3			#5		57,718													
4			#4		34,050													
5			#3		8,550													
					Cut and bend to suit Dwgs. Nos. 1615-3 and Sk 235A-1													
					Total weight 89,800 lbs.													
Reinforcing bars shall be in accordance with the Canadian Standards Association Specification for Billet Steel Reinforcing Bars No G30-1938 or with the Specification for Rail Steel Reinforcing Bars No G31-1938 and subsequent revisions thereof.																		



PANEL LAYOUT
1" = 1'-0"

NOTE: 8 SUB PANELS REQUIRED.



COUPLING CONNECTION

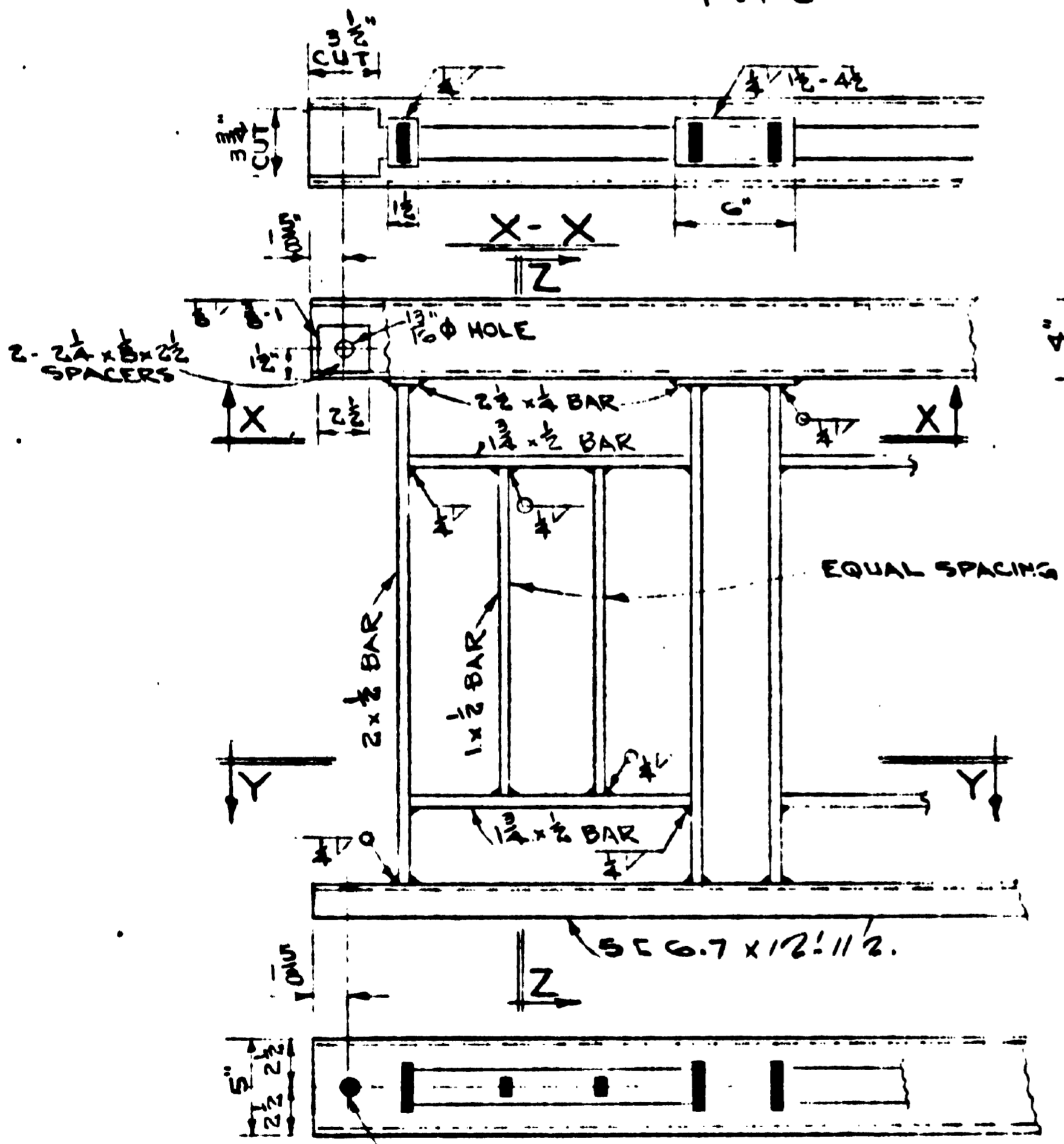
3" x 1'-0"
2 ZED'S PER PANEL

MAKE 48 - MK A22

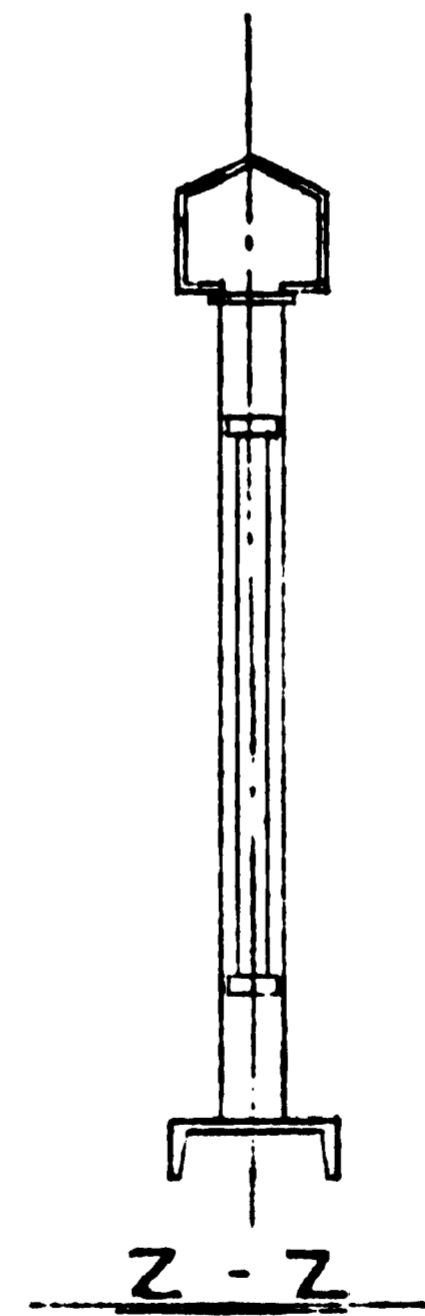
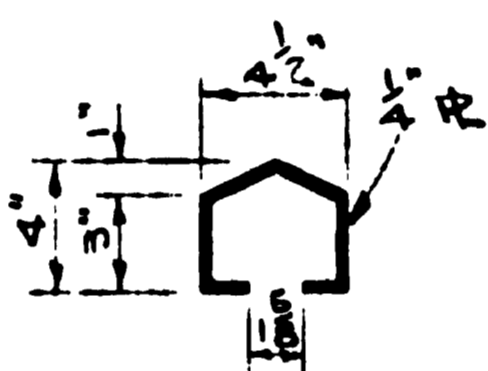
NOTE:-

ALL PANELS TO BE FABRICATED FROM CANADIAN MATERIAL MEDIUM STRUCTURAL STEEL ASTM SPEC. A-7.

PAINT - ALL PANELS TO BE BLAST CLEANED & GIVEN ONE SHOP COAT OF DOK # 2 PRIMER.



Y-Y
PANEL DETAILS
1/2" = 1'-0"

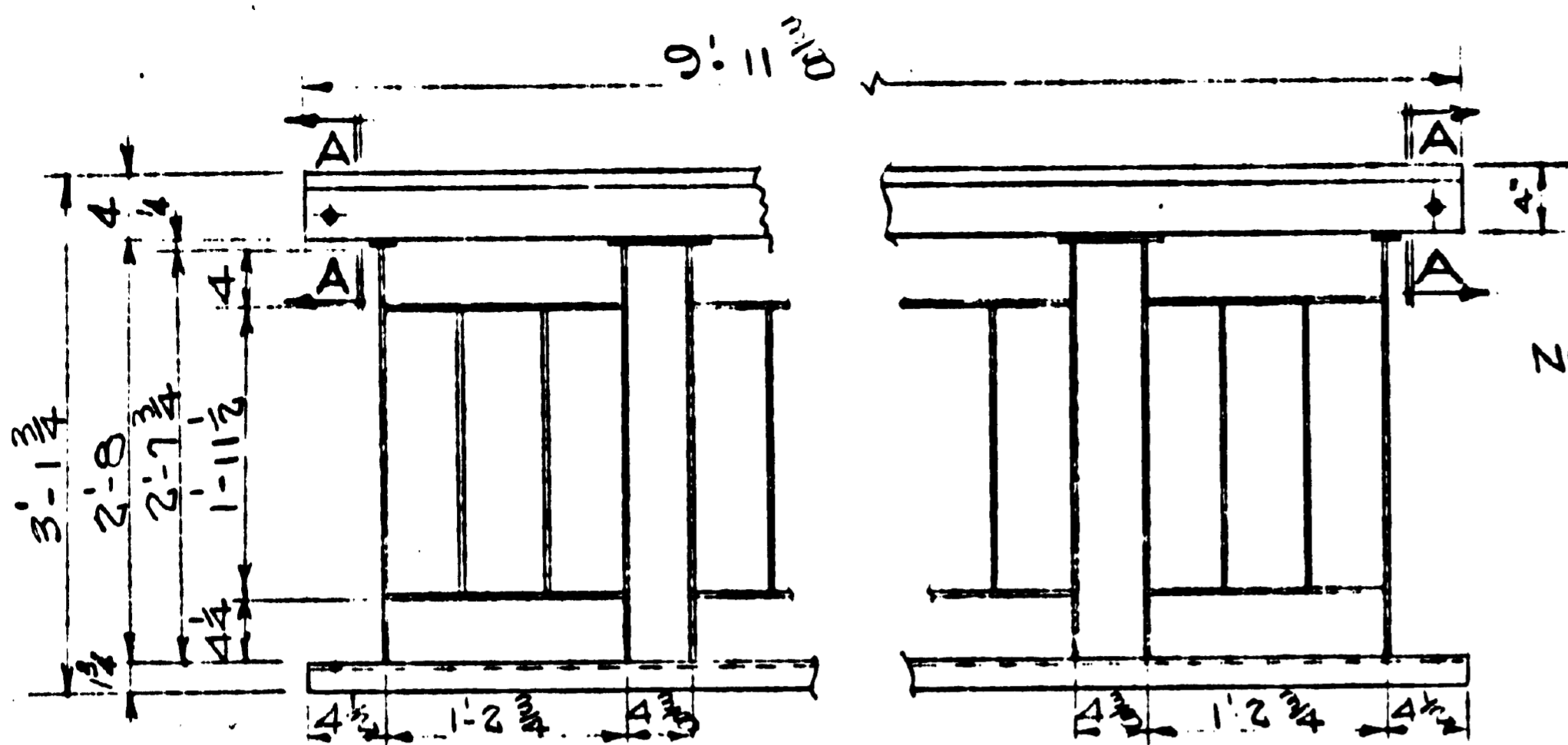


Z-Z

97287

PLAIN MATERIAL.
PER PANEL.
2 - 3/4" x 2" HEX HD M.B.'S c/w
HEX NUTS & LK. WASHERS.

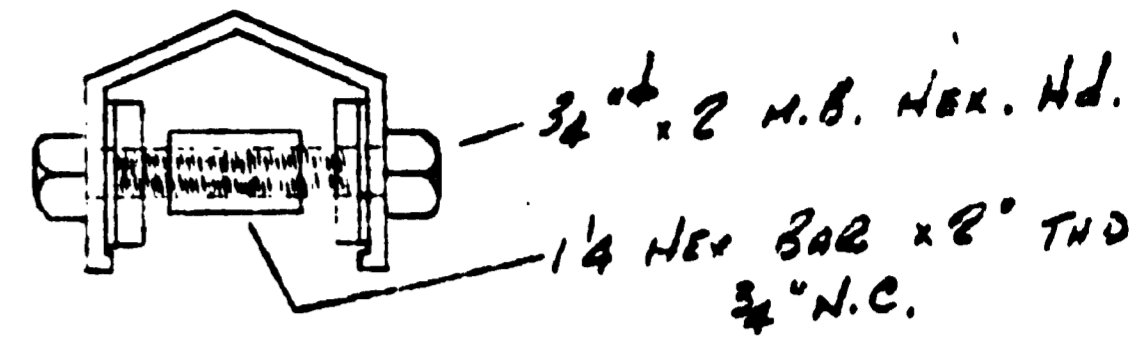
BRITAIN STEEL FABRICATORS LTD		
524 SHARPE STREET		
NEW WESTMINSTER, B.C.		
DETAILS OF FENCE PANELS		
FOR - PENKILNVILLE ROAD		
UNLAKED		
FOR BRIDGE PROJECT #22		
1960		
DRAWN BY	DATE	DRAWING NO.
CHECKED BY	SCALE	108



PANEL LAYOUT

1" = 1'-0"

NOTE: 6" SUB PANELS REQUIRED.



A-A

COUPLING CONNECTION

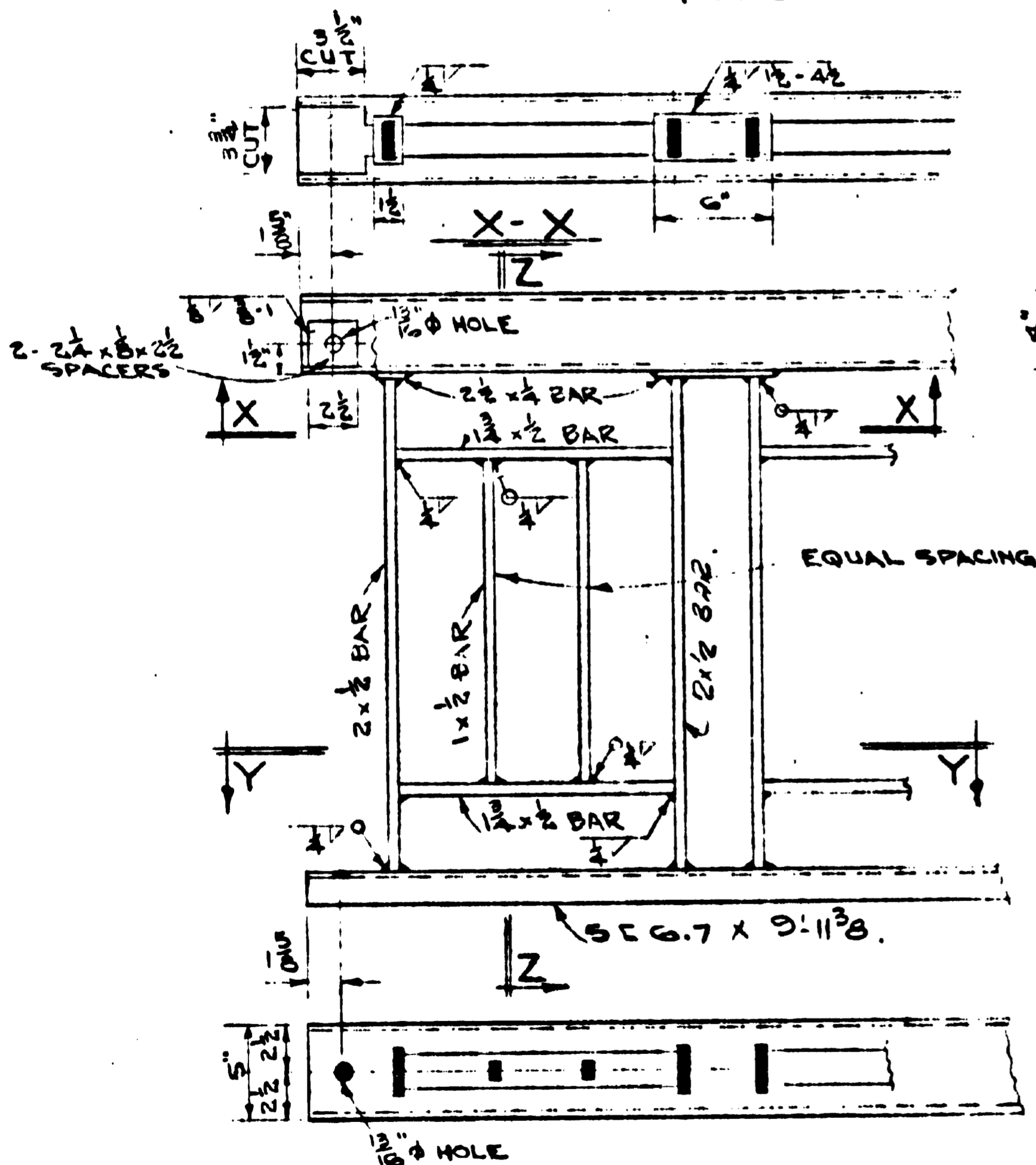
3" = 1'-0"

2 REQ'D PER PANEL

NOTE:-

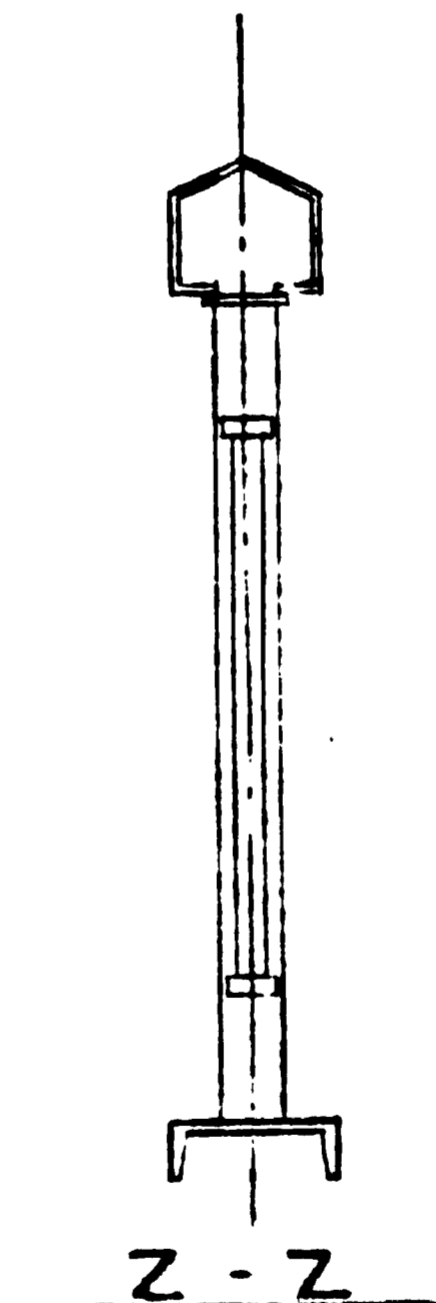
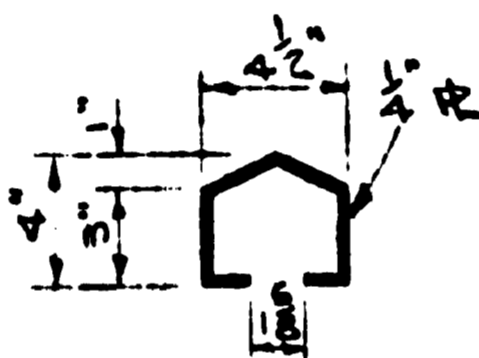
ALL PANELS TO BE FABRICATED FROM CANADIAN MATERIAL MEDIUM STRUCTURAL STEEL ASTM SPEC. A-7.

PAINT - ALL PANELS TO BE BLAST CLEANED & GIVEN ONE SHOP COAT OF DCH # 2 PRIMER.



PANEL DETAILS

1 1/2" = 1'-0"



Z-Z

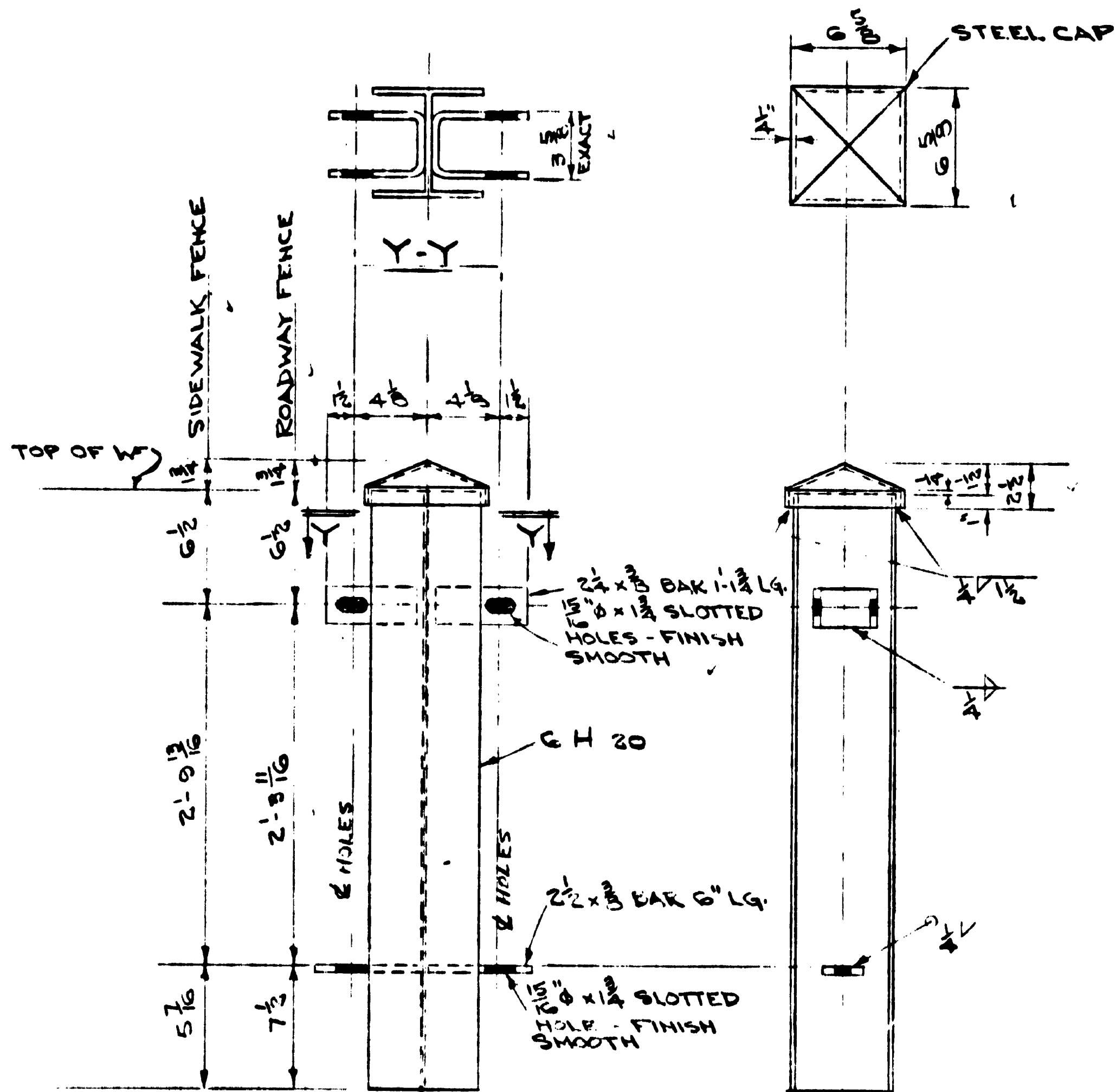
PLAIN MATERIAL

PER PANEL

2- 3/4" ϕ x 2" HEX. HD. MB'S
 4W REG. HEX. NUTS &
 LOCK WASHERS

97288

BRITAIN STEEL FABRICATORS LTD		
524 SHARPE STREET		
NEW WESTMINSTER, B.C.		
DETAILS OF FENCE PANELS		
FOR - NORTH NECHAKO		
ROAD OVERPASS		
FOR BRIDGE PROJECT #22		
1960		
DRAWN BY	DATE	DRAWING NO.
CHECKED BY	SCALE	108-24



DETAIL OF POST

1 1/2" : 1'-0"

MAKE 38 THUS ROADWAY FENCE.

MAKE 2 SIMILAR IN ALL DETAIL EXCEPT THAT ANCHOR BARS ARE OMITTED FROM ONE SIDE ONLY ON POST.

NOTE

ALL POSTS TO BE FABRICATED FROM CANADIAN MATERIAL MEDIUM STRUCTURAL STEEL A.S.T.M. SPEC. A-7.

PAINT - ALL POSTS TO BE BLAST CLEANED & GIVEN ONE SHOP COAT OF DOH # 2 PRIMER.

9799

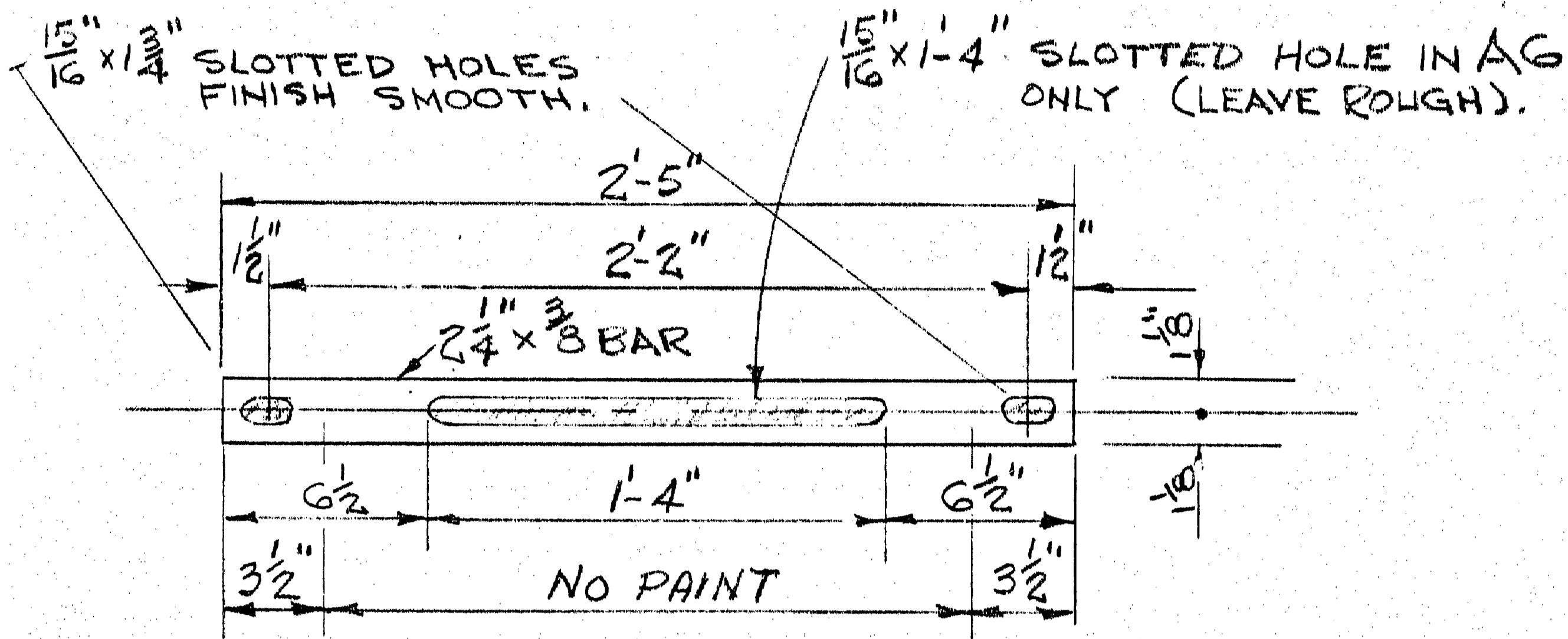
- SIDEWALK FENCE

BRITAIN STEEL FABRICATORS LTD.
524 SHARPE STREET
NEW WESTMINSTER, B.C.

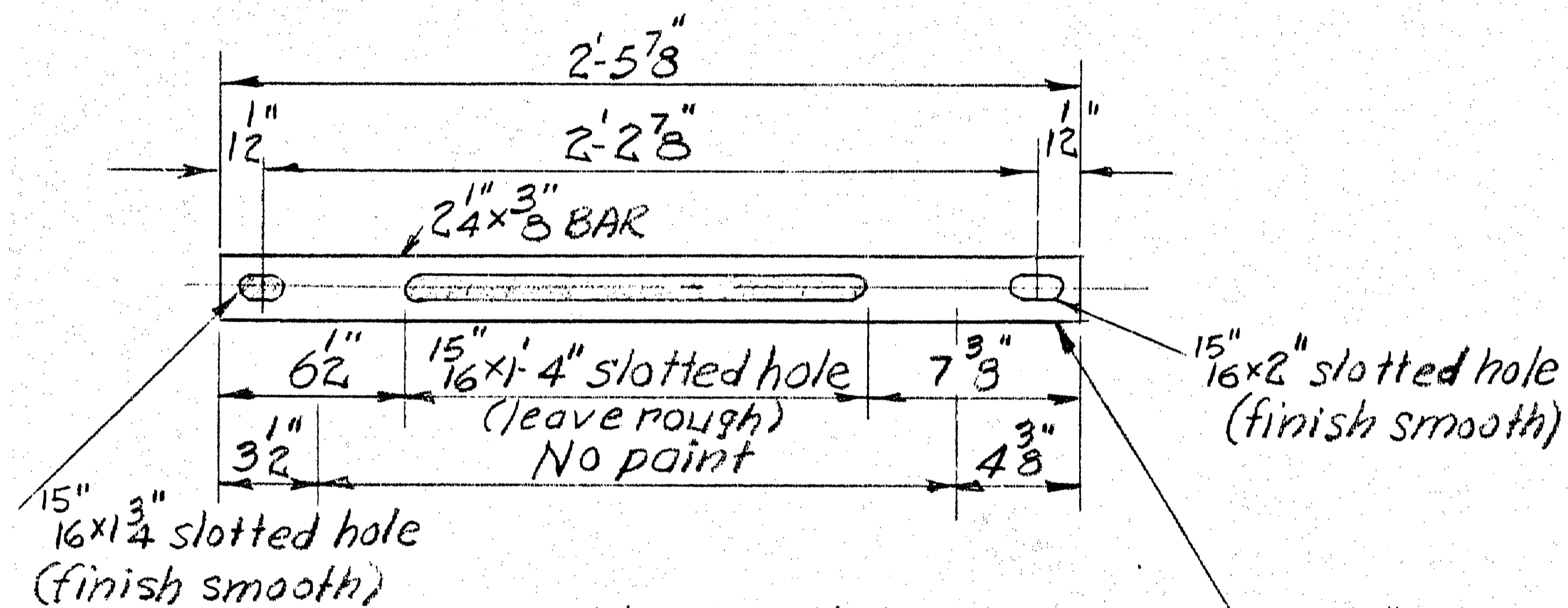
DETAILS OF POSTS.
FOR: - QUESNEL RIVER
BRIDGE
FOR BRIDGE PROJECT #22
1960

DRAWN BY J.S. DATE 12 AUGUST 1960. DRAWING NO. 108-25
CHECKED BY H.C. SCALE -

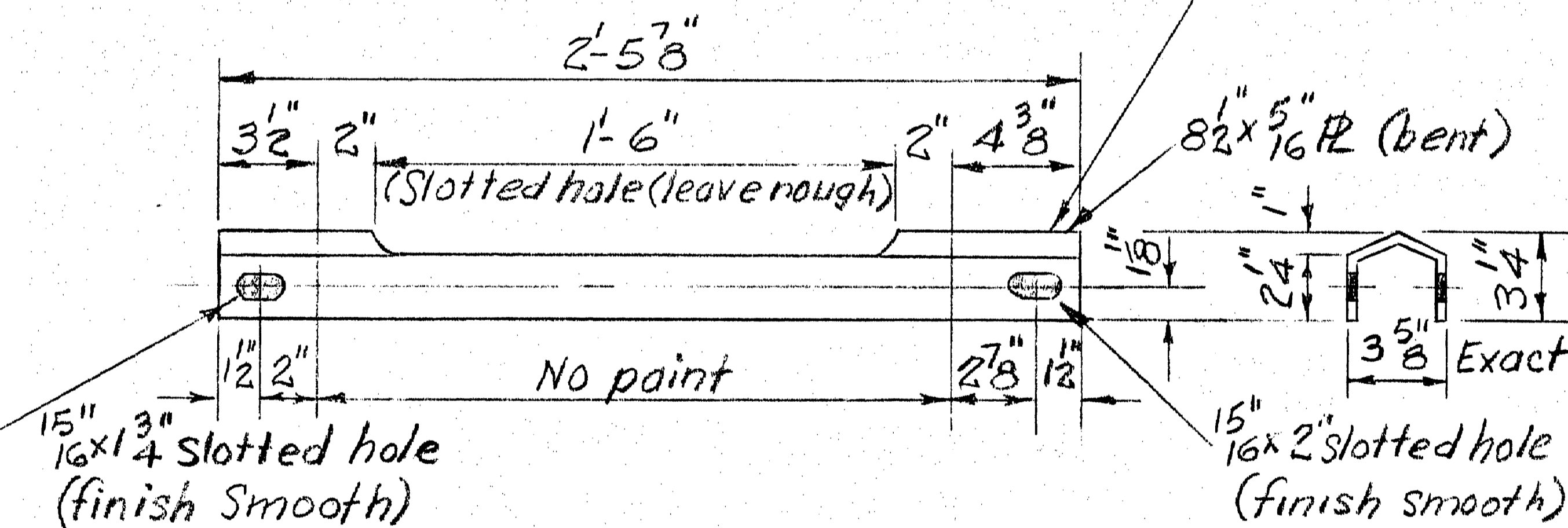
12 AUGUST 1960.



ANCHORS MK. A5 & A6



ANCHOR MK. A7



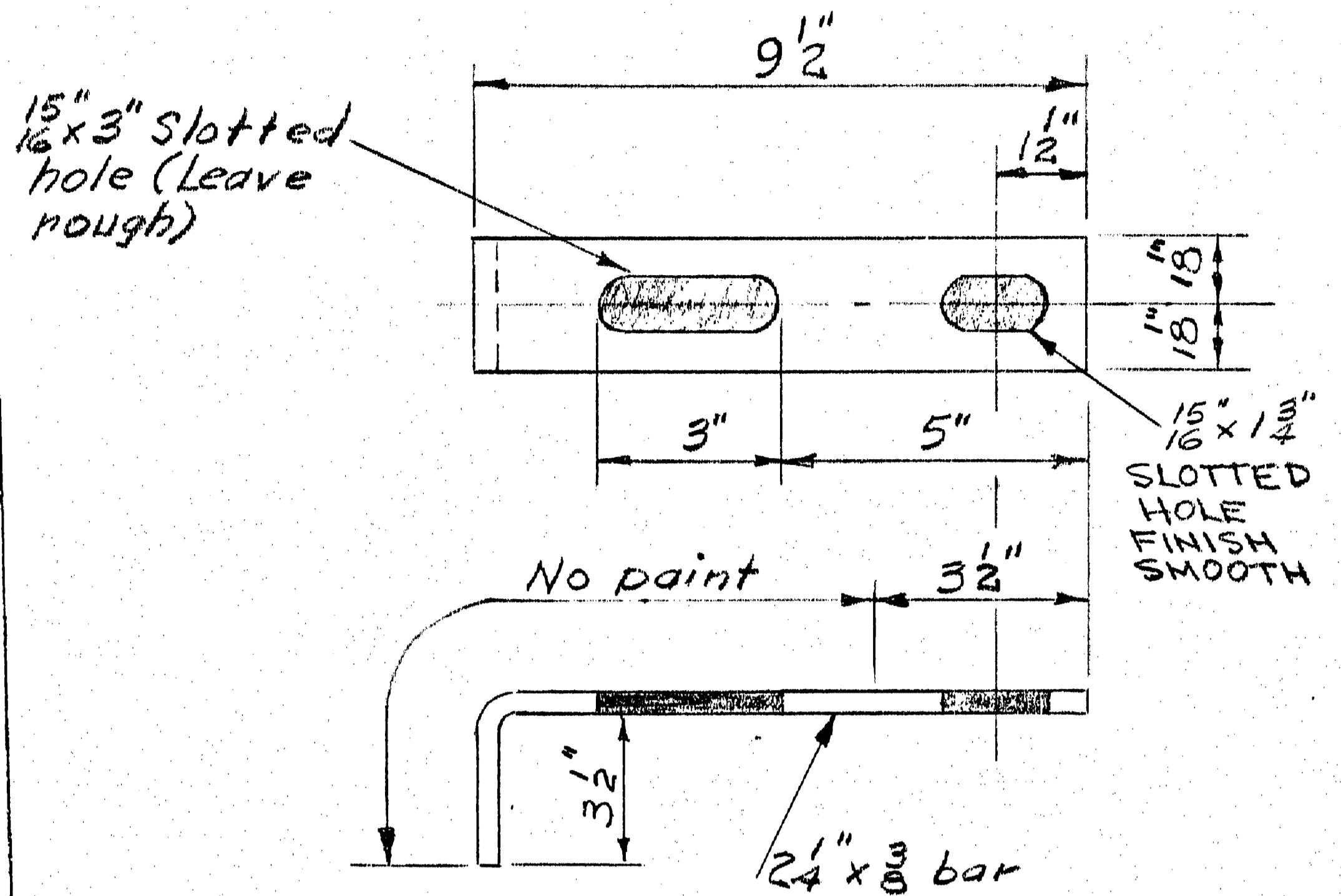
ANCHOR MK. A8

1/2" = 1'-0"

Req'd: 88-MK A5	Weight each 7 lbs
" 44 " A6	" " 7 "
" 4 " A7	" " 7 "
" 4 " A8	" " 23 "

NOTE: Paint 1 coat red lead except where noted otherwise

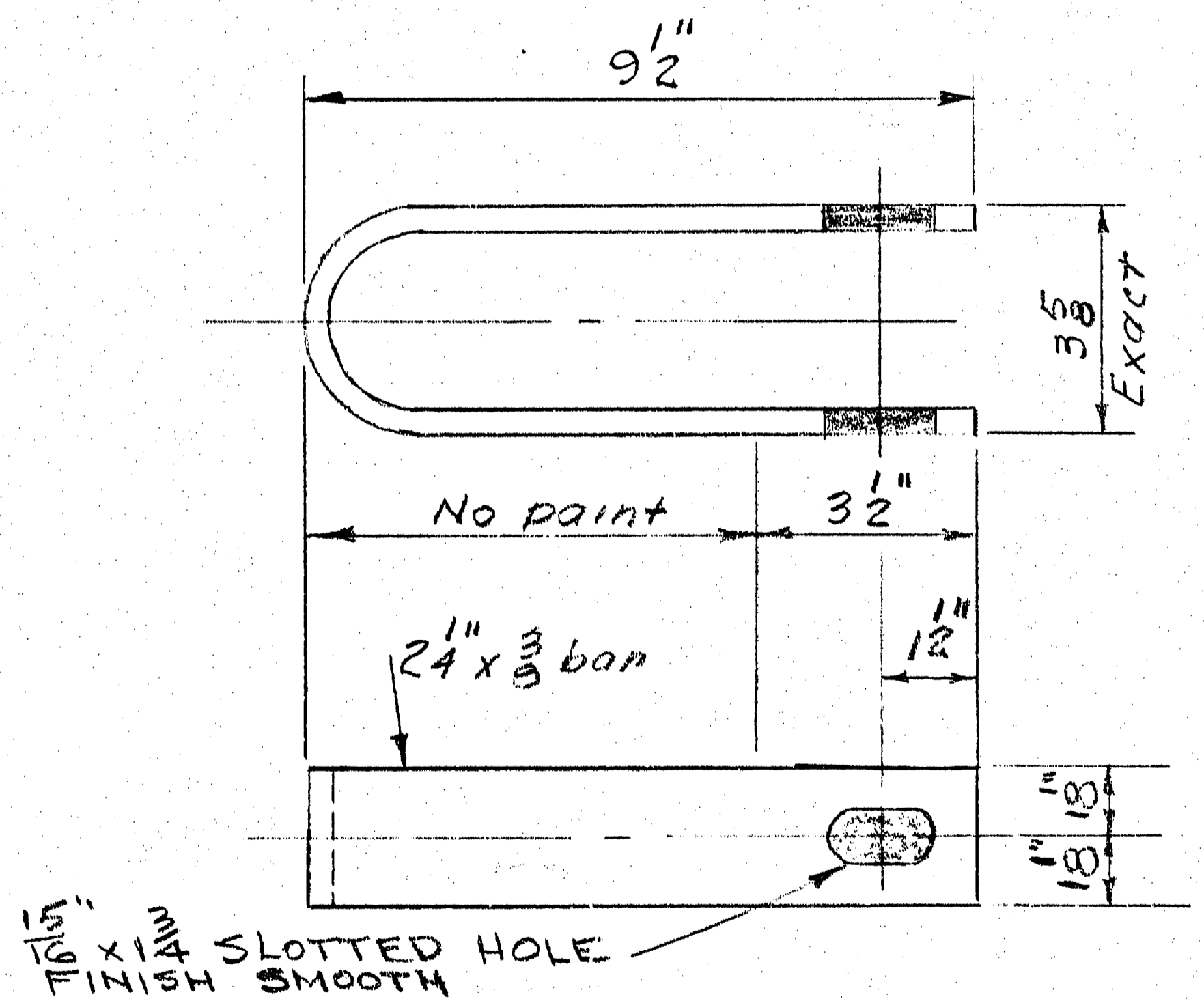
FOR DONALD O/H CROSSING



ANCHOR MK. A5 X

16 Req'd

Estimated Wt. each 3 lbs.



ANCHOR MK. A6 X

16-Req'd

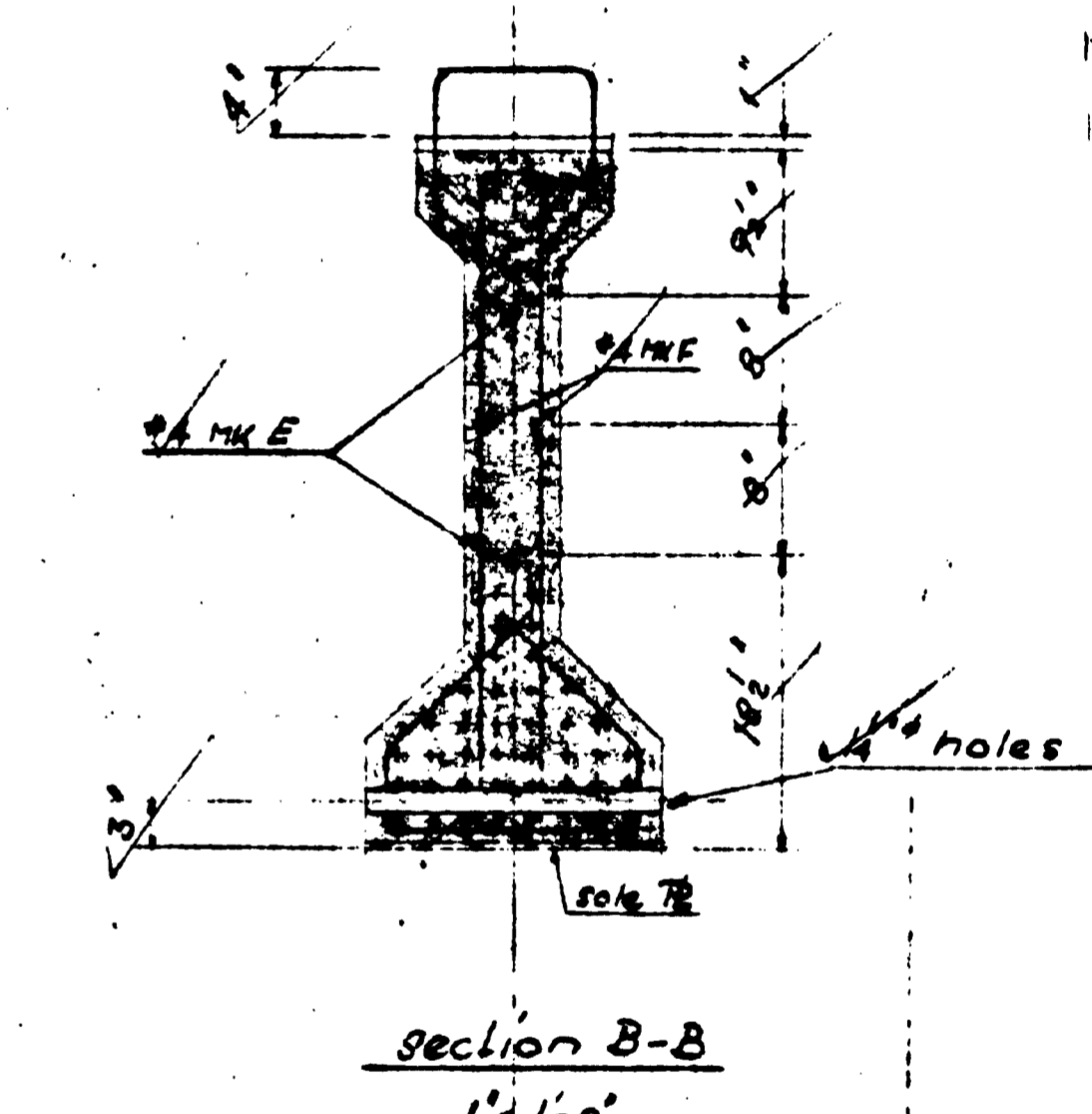
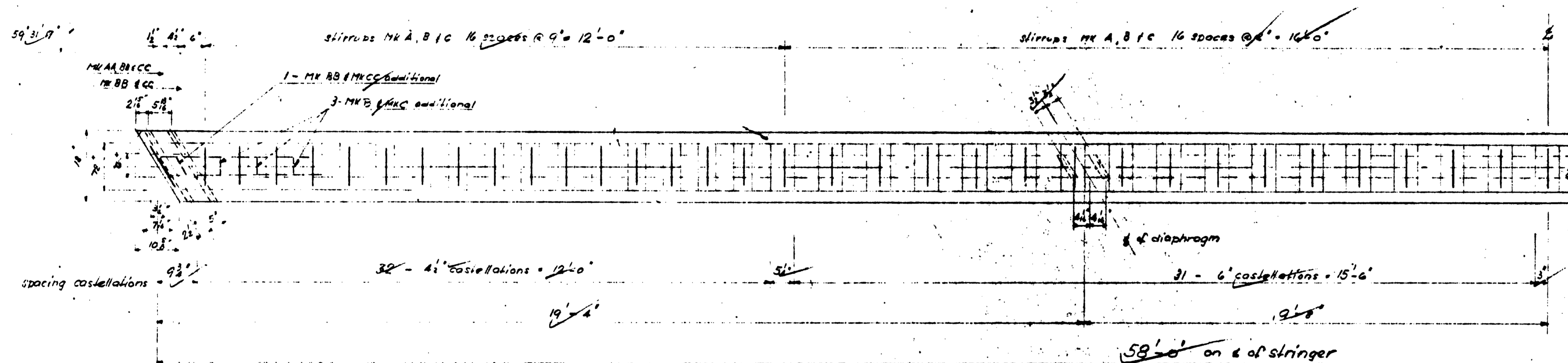
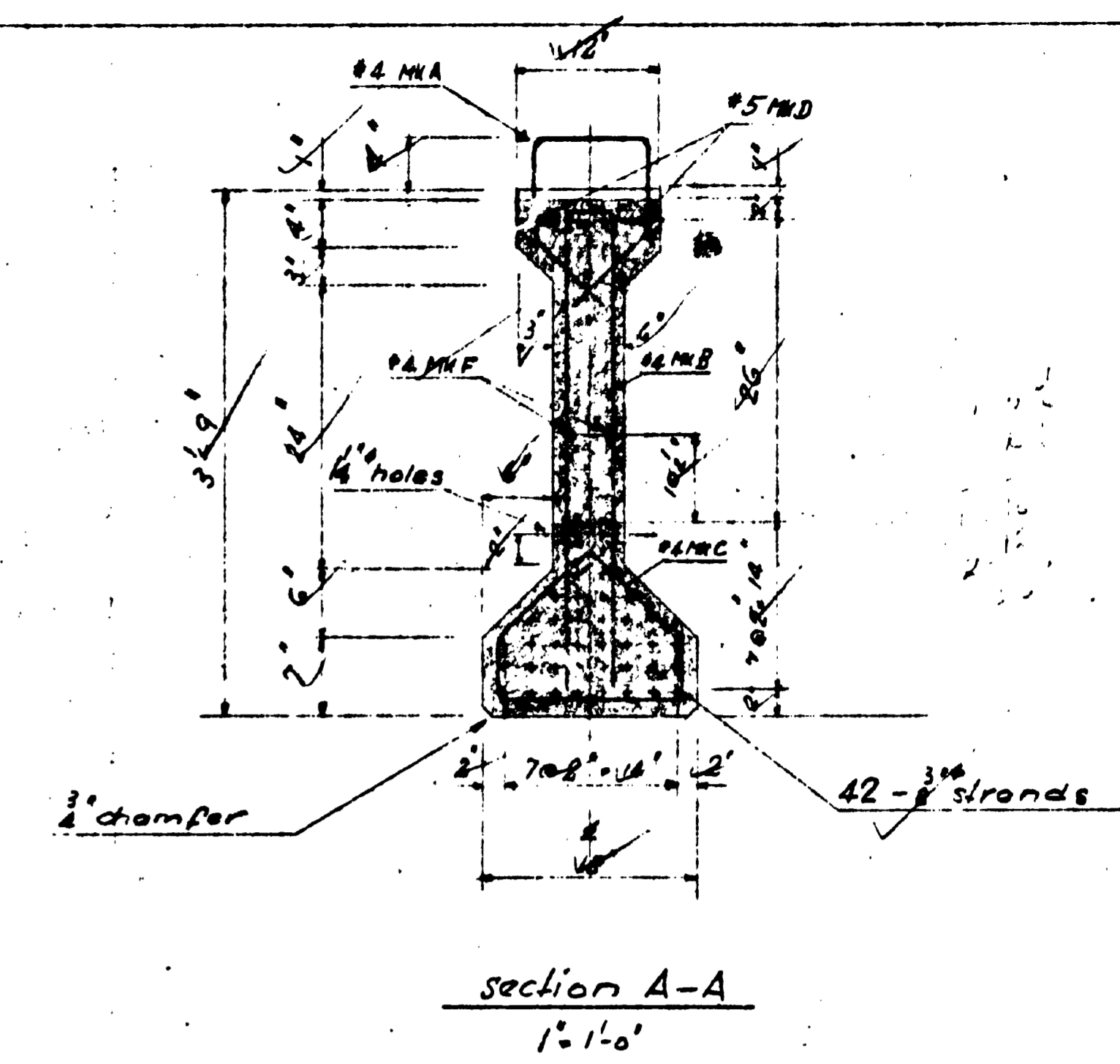
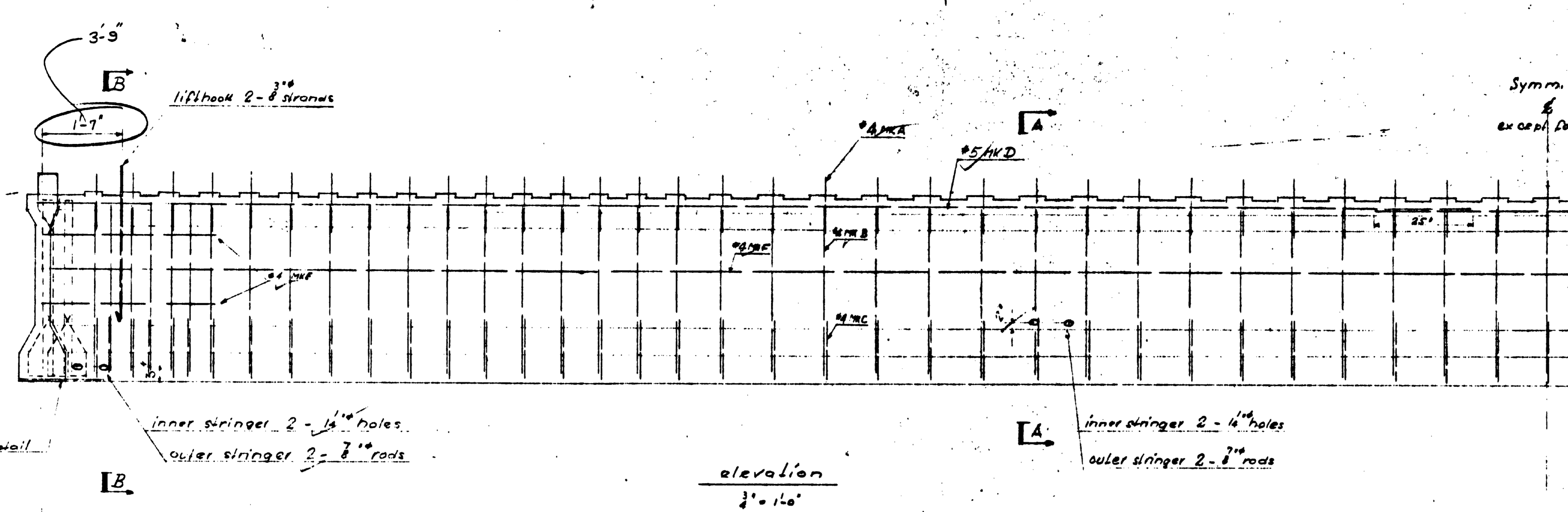
Estimated Wt. each 5 lbs

3" = 1'-0" 97290

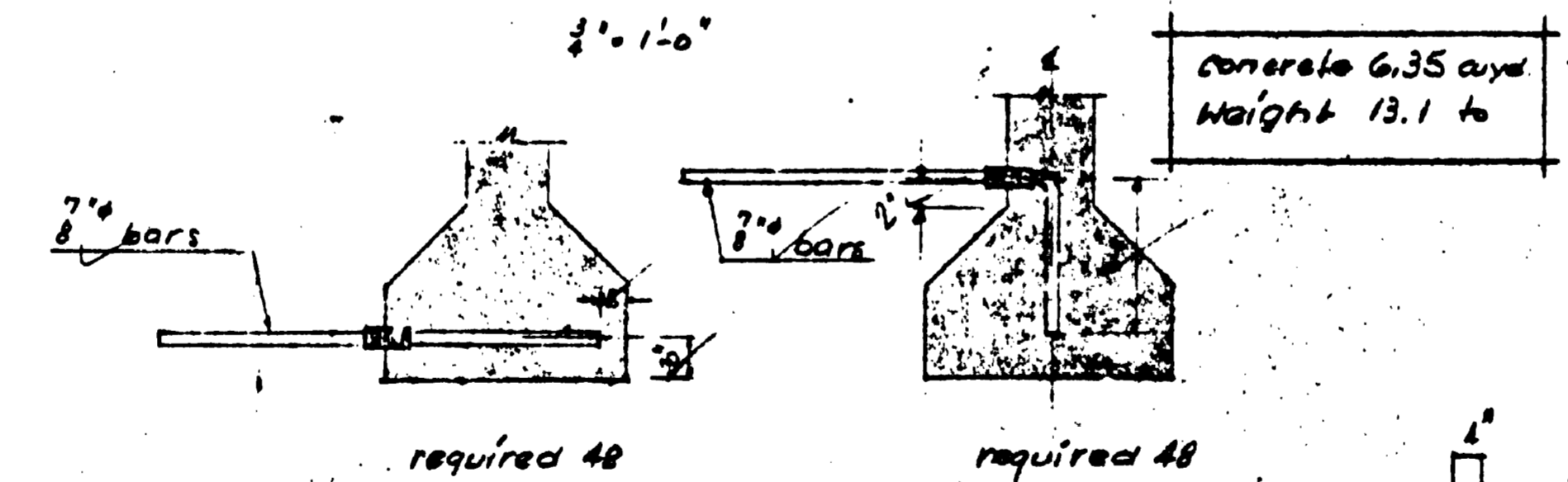
BRITAIN STEEL FABRICATORS LTD
 524 SHARPE STREET
 NEW WESTMINSTER, B.C.
 DETAILS OF ANCHORS
 FOR BRIDGE PROJECT 22
 (1960)
 DRAWN BY J.S. DATE 12 AUG. 60 DRAWING No.
 CHECKED BY [Signature] SCALE AS NOTED 108-26

1/2 QUANTITY FOR COUNTY LINE RD. U/P.
 1/2 QUANTITY FOR PEARDONVILLE RD. U/P.

12 August 1960

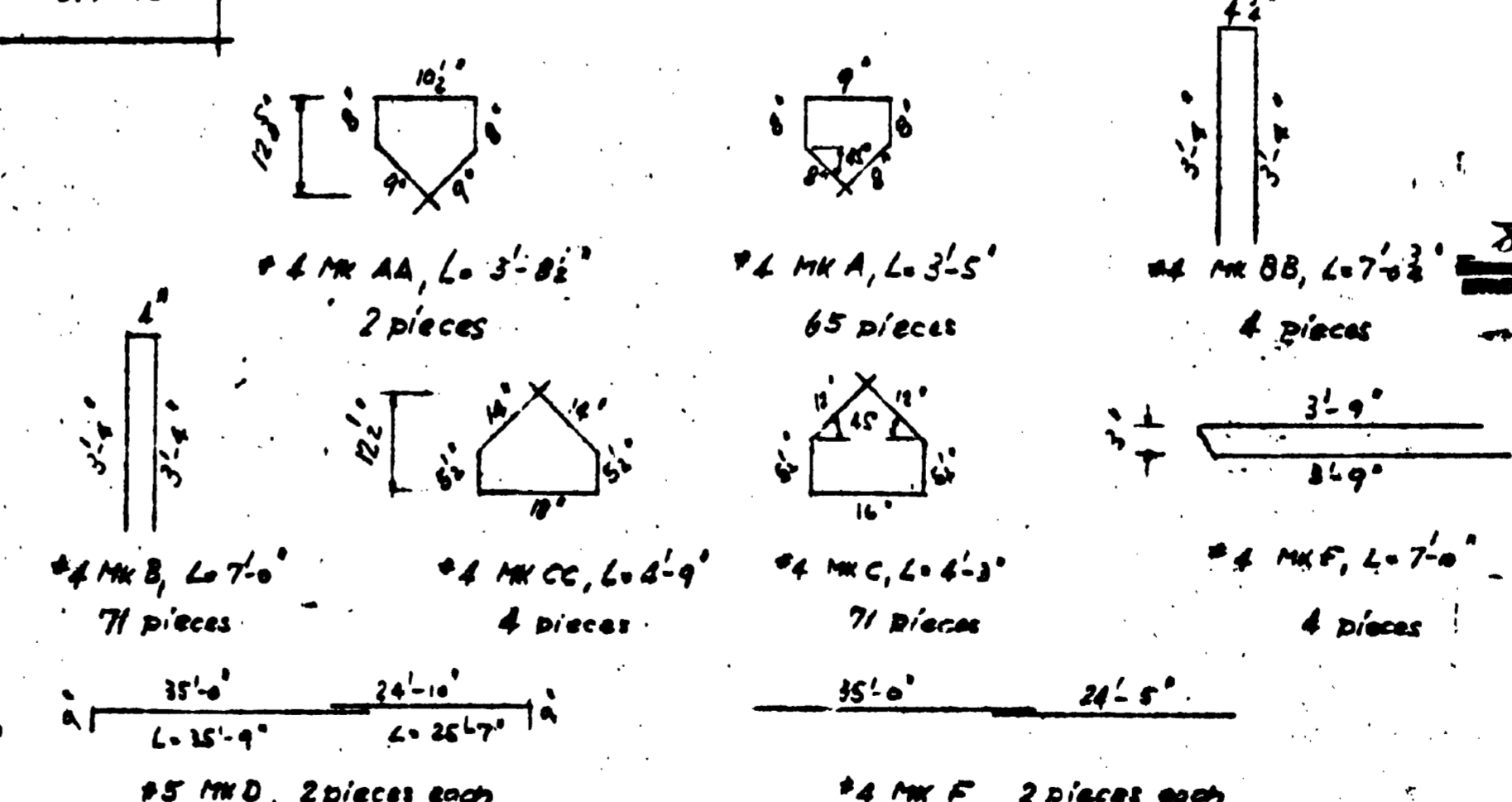


plan inner stringer stem
1'-1-0"



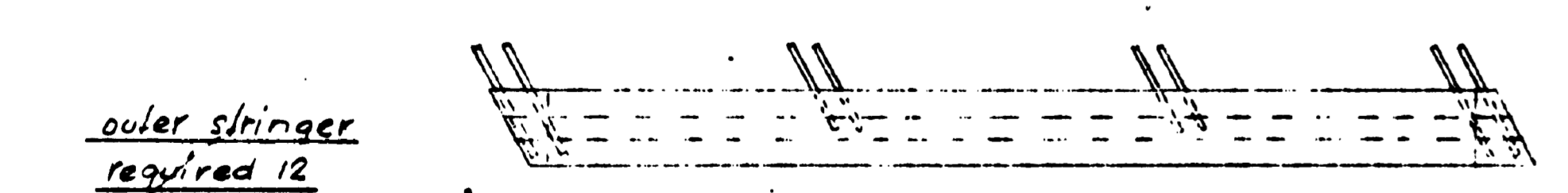
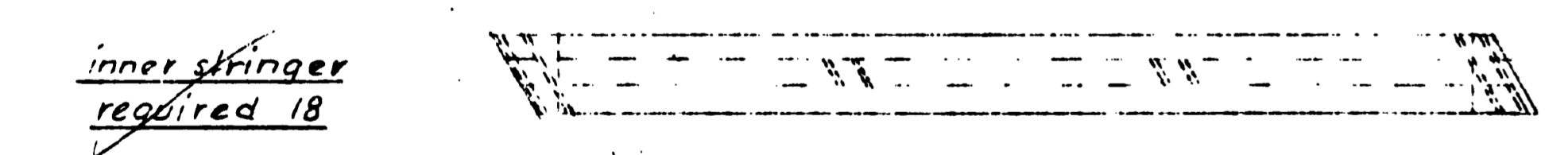
required 48

detail reinforcing
all dimensions out to out

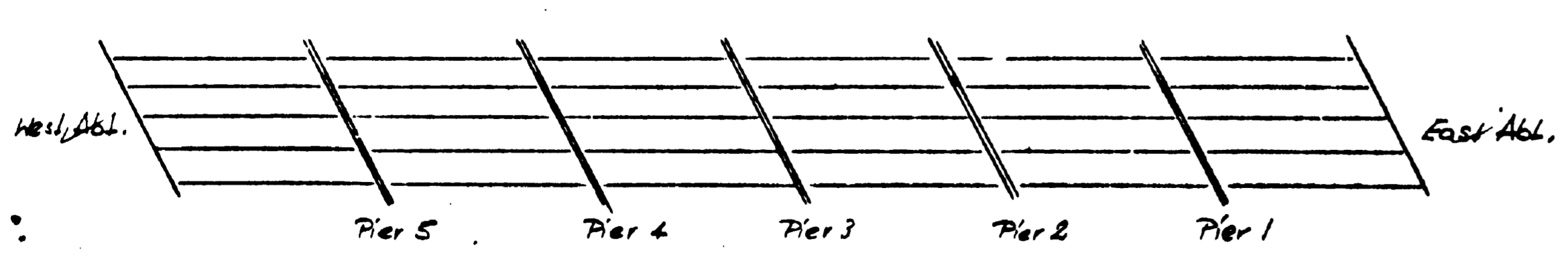


- Notes:
1. Prestressing steel to be 8 strands: Ultimate strength 20,000 lbs per strand. Stress at time of release 16,000 lbs per strand.
 2. Min compressive strength of concrete at time of release 4800 psi, at 28 days 5500 psi.
 3. Reinforcing to have 1/2" min cover unless noted.
 4. Reinforcing to be structural grade, splices to be staggered, top of bars to be 40-D.
 5. Lengths of stringers given [] are to be obtained at 28 days after placing concrete.
 6. Ends of stringers to be painted with asphaltic material.

detail couplings for outer stringers
1'-1-0"



layout



key plan

APPROVED

J. Allen for K.H.A.
SENIOR ENGINEER, DEPT. OF HIGHWAYS

OFFICE COPY

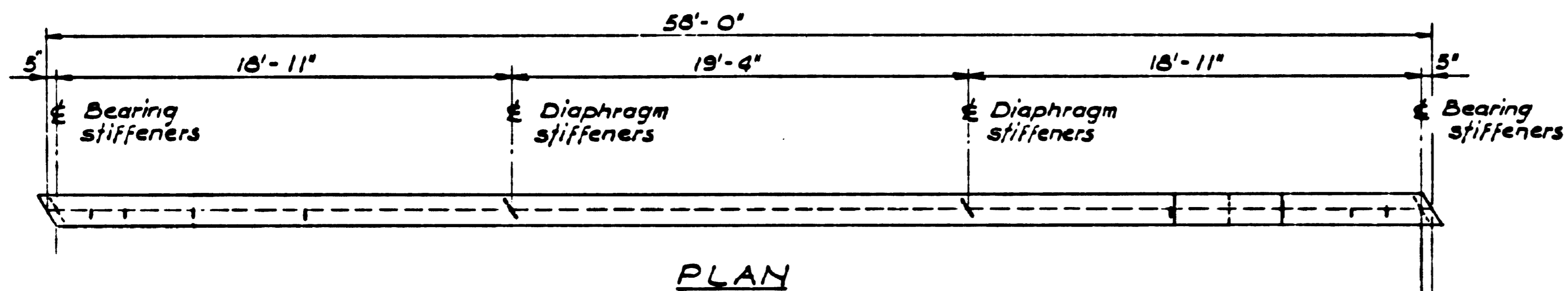
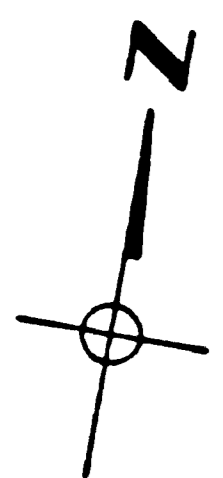
detail sole to required 60
1'-1-0"

Superior Concrete Products Ltd.
2010 EAST KEITH ROAD
NORTH VANCOUVER, B.C.

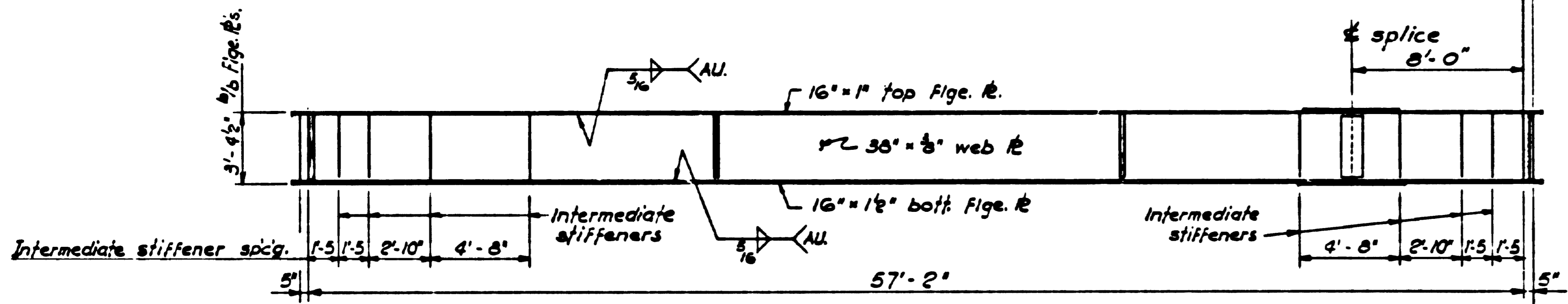
Peardonville Road Underpass
Prestressed Concrete Stringers

99883

Scale as shown	made by: H. R. ...	date: ...	approved: J. Allen	Dwg. 841-2
	checked by: ...	date: ...	revised: ...	

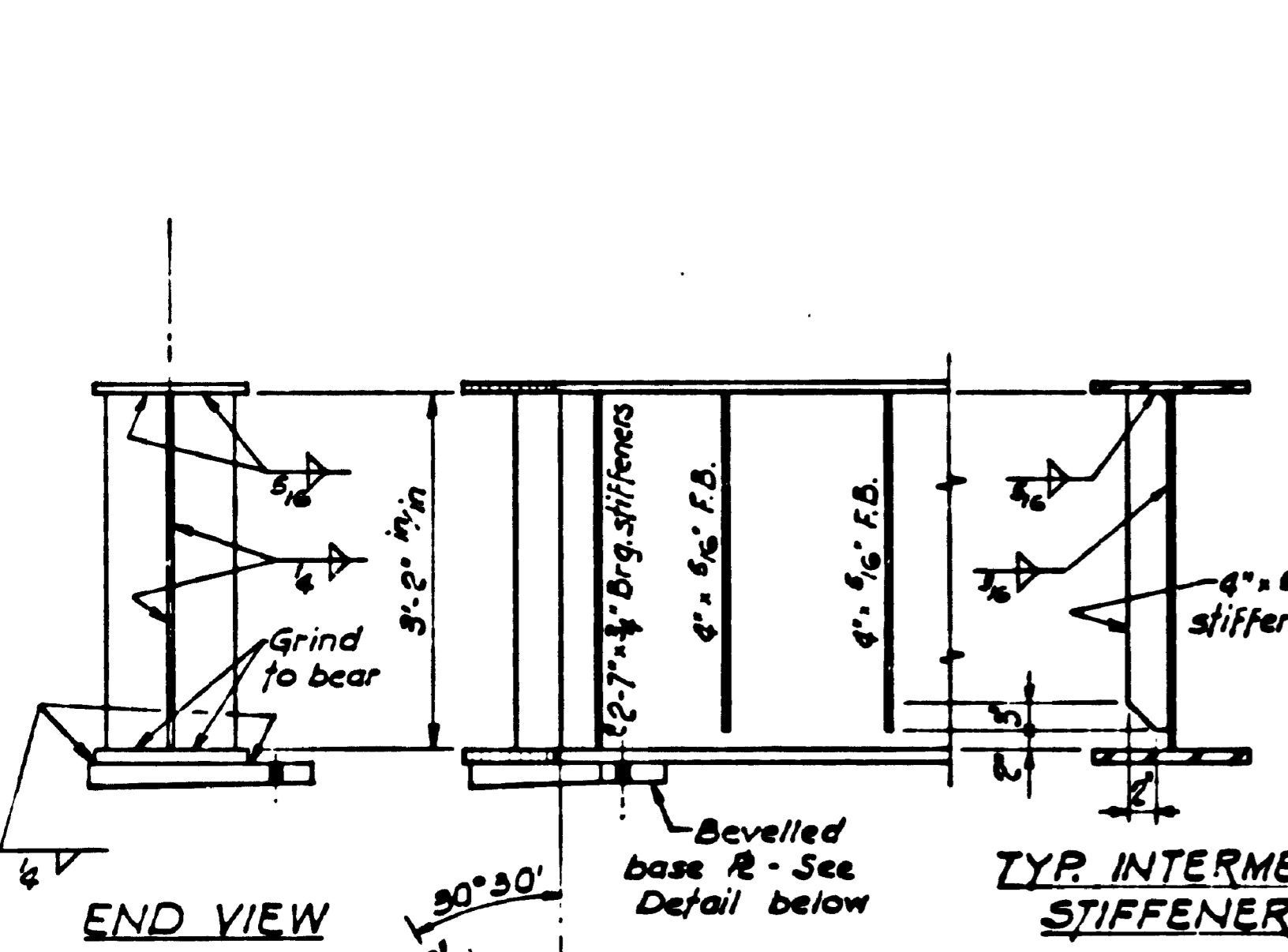


PLAN

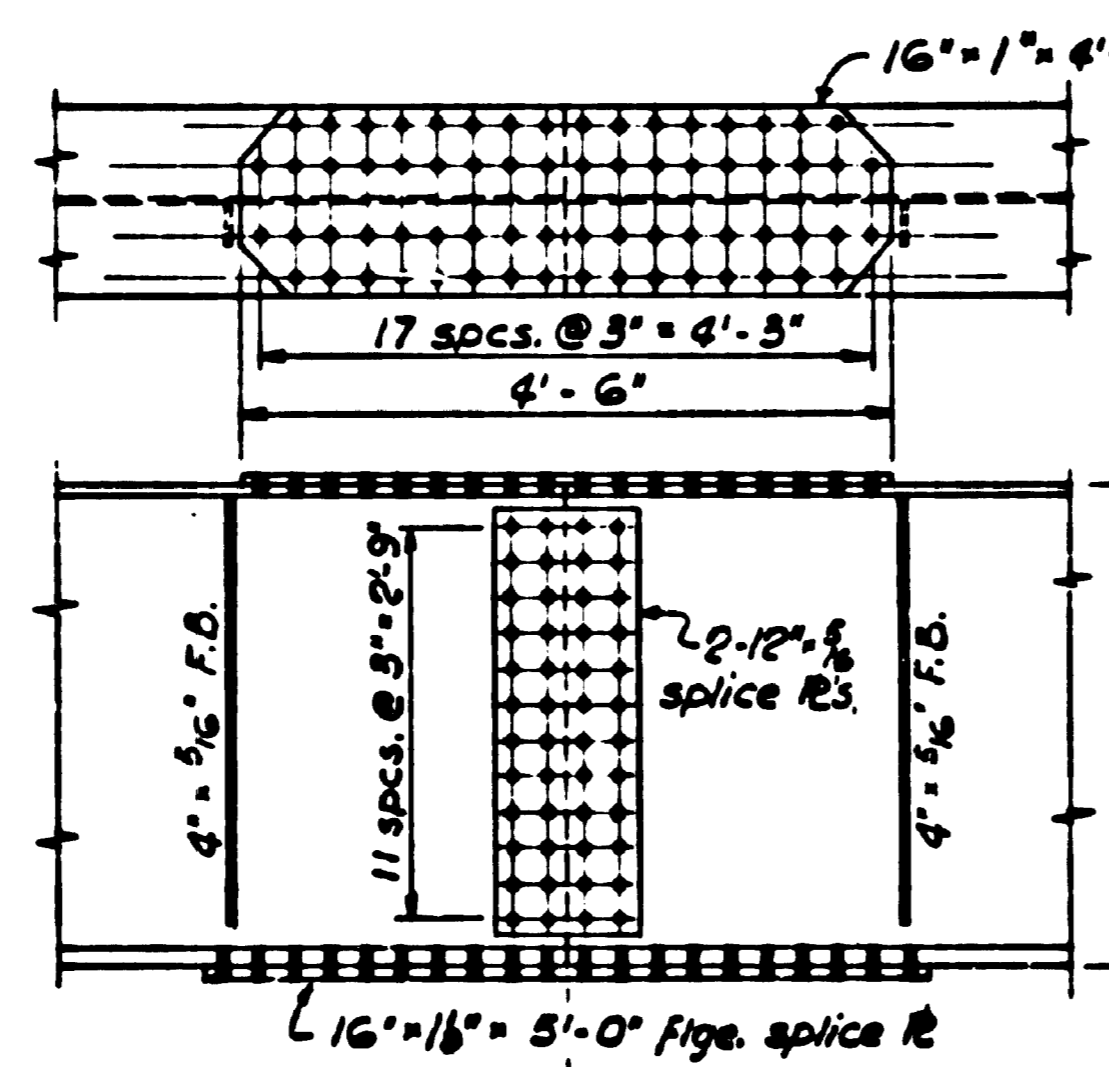


ELEVATION
Scale: 1/4" = 1'-0"

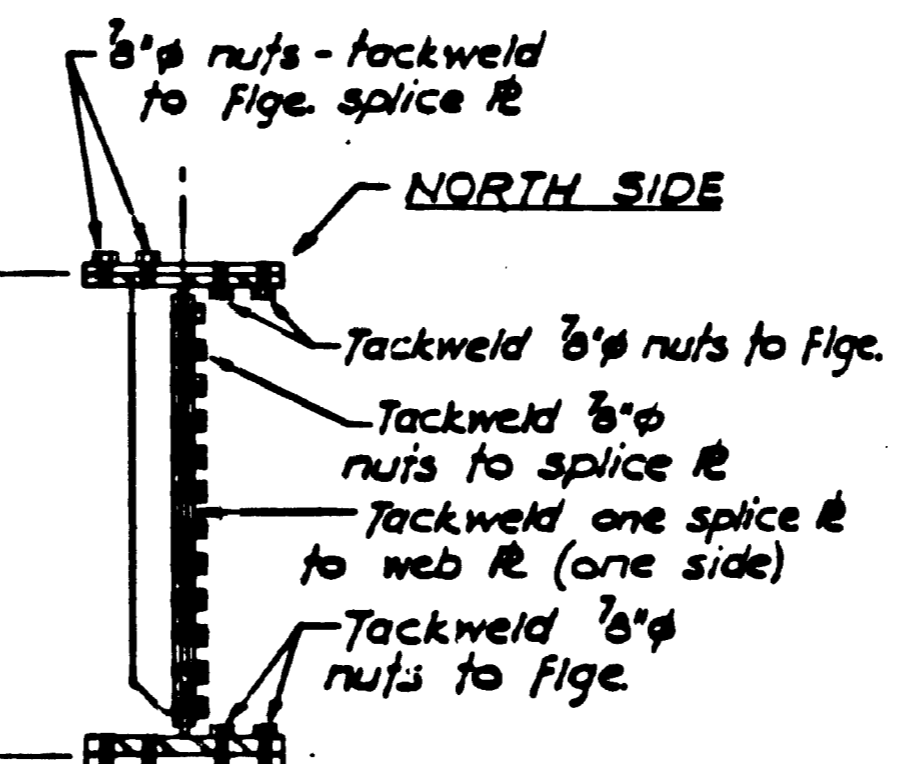
NOTE:
Mark this
end "West"



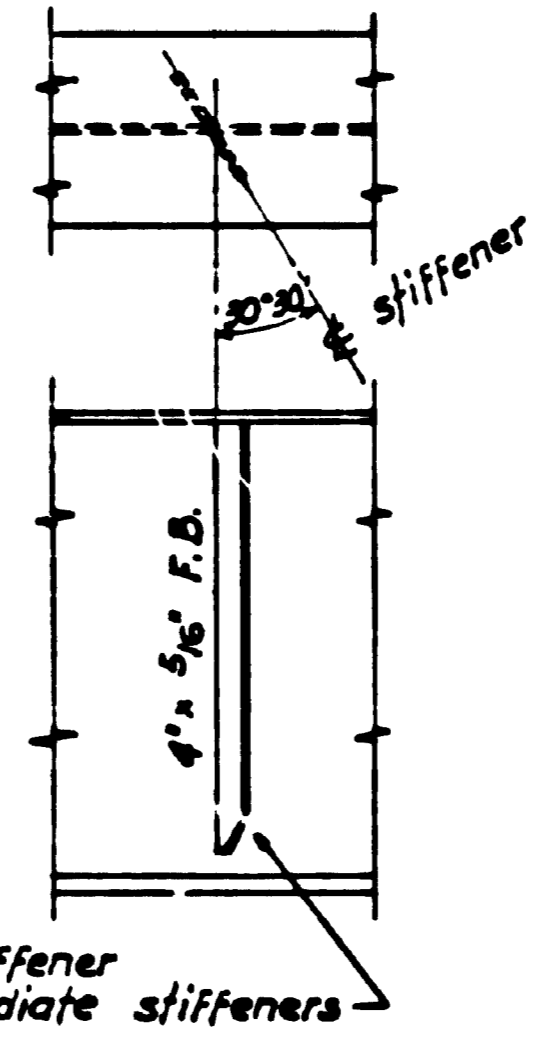
TYP. INTERMEDIATE STIFFENER



DETAIL OF FIELD SPLICE



NORTH SIDE

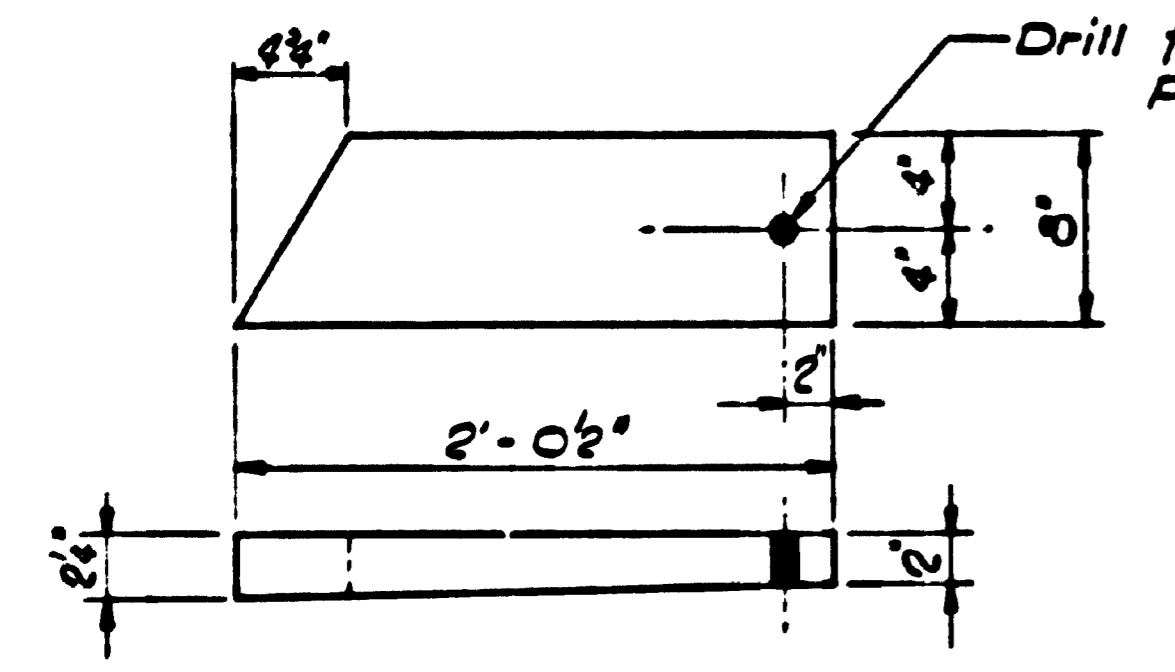


TYP. DIAPHRAGM STIFFENER

General Notes:

1. Material shall conform to C.S.A. specification G40.21 - 44W
2. Open holes to be 1 1/8" except where noted otherwise
3. Field connections to be 3/8" H.T. bolts except where noted otherwise
4. Paint all steelwork not in contact with concrete one shop coat Red Lead Alkyd oil paint, designation M.O.H.A.2., in accordance with the Ministry's General Specifications, Section 216

TYP. DETAIL AT END OF STRINGER
(East end similar)



BEVELLED BASE R (2 reqd)
Scale: 1/2" = 1'-0"

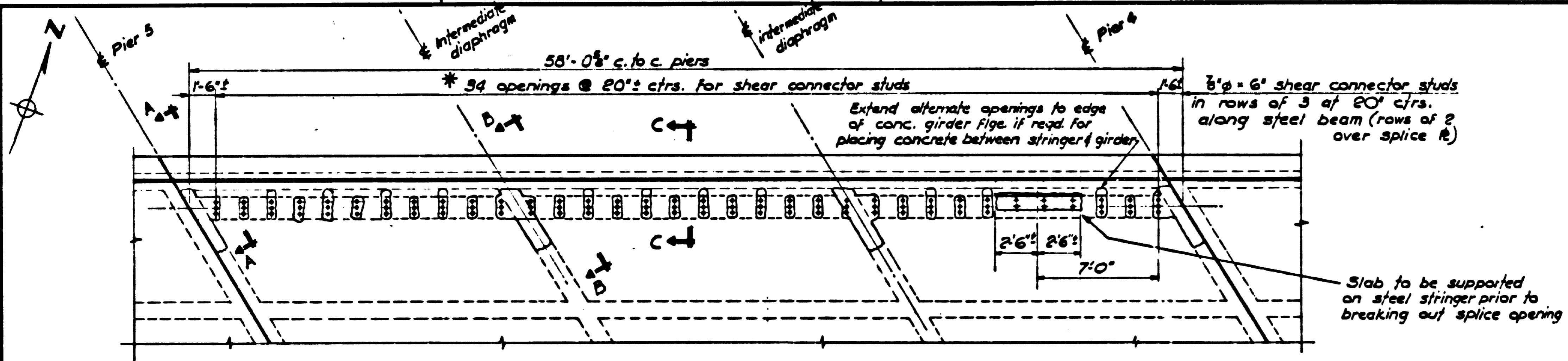


GOVERNMENT OF BRITISH COLUMBIA
MINISTRY OF TRANSPORTATION AND HIGHWAYS
BRIDGE ENGINEERING BRANCH

CHILLIWACK DISTRICT
TRANS CANADA HIGHWAY 158330
PEARDONVILLE RD. UNDERPASS-REPAIRS
STEEL STRINGER

D	REVISIONS
C	
B	
A	As built

PREPARED UNDER DIRECTION OF	DATE	SCALE	NEG No.
<i>[Signature]</i>	July '81	1/2" = 1'-0" as noted	
DRAWN	DATE	CHECKED	DATE
D.C.	July '81	<i>[Signature]</i>	July '81
APPROVED FOR USE IN CONSTRUCTION	DATE	EXAMINED AND ACCEPTED	DATE
<i>[Signature]</i>		<i>[Signature]</i>	
		M.C.S.T.	1581-67.26
		EXECUTIVE DIRECTOR OF ENGINEERING	1615-20A



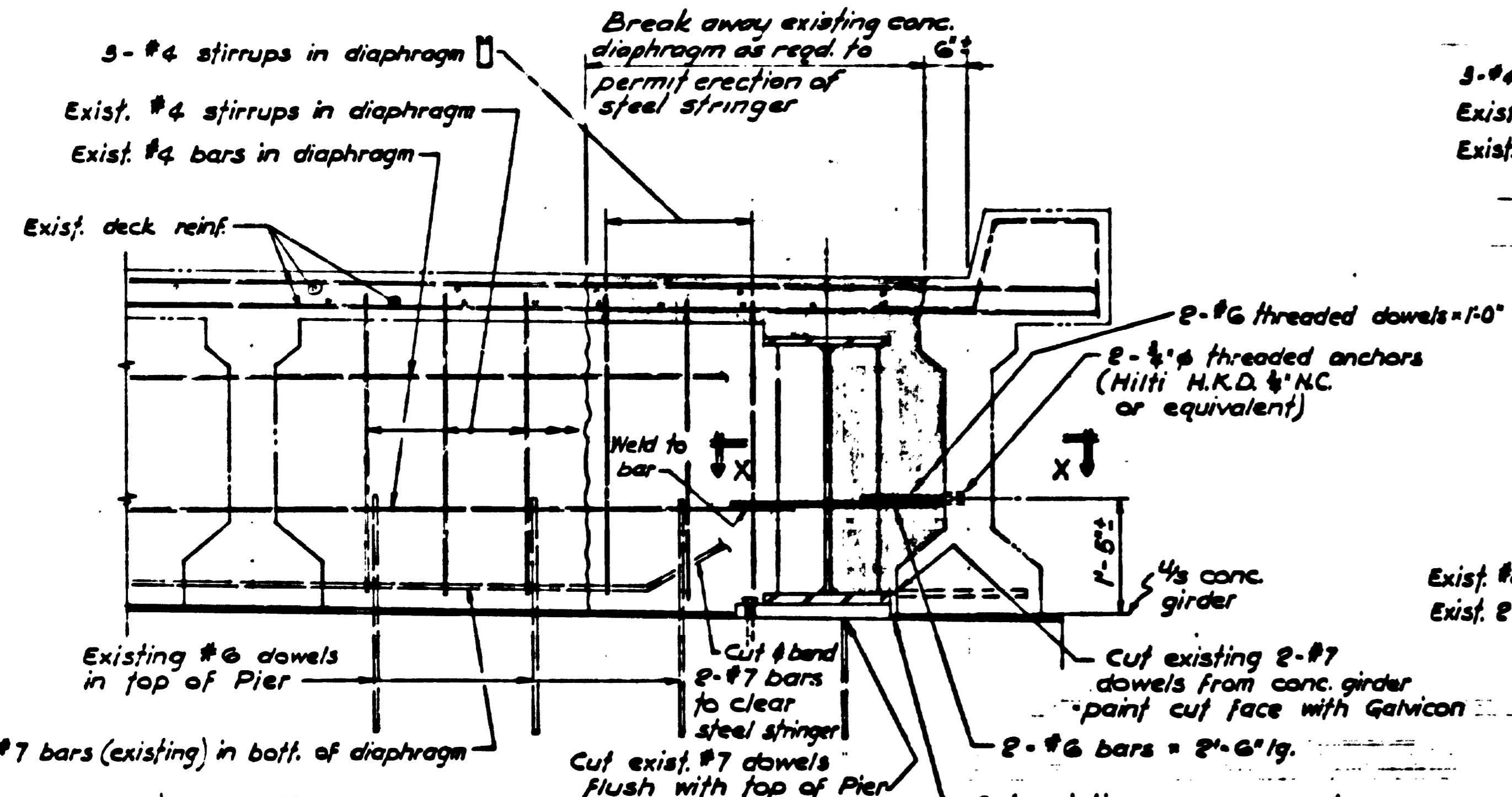
KEY PLAN
Scale: 1/4" = 1'-0"

* Care to be taken not to damage reinforcement in openings. Bars to be cut only if approved by the Engineer. Size of openings to be no greater than the minimum required for stud welding

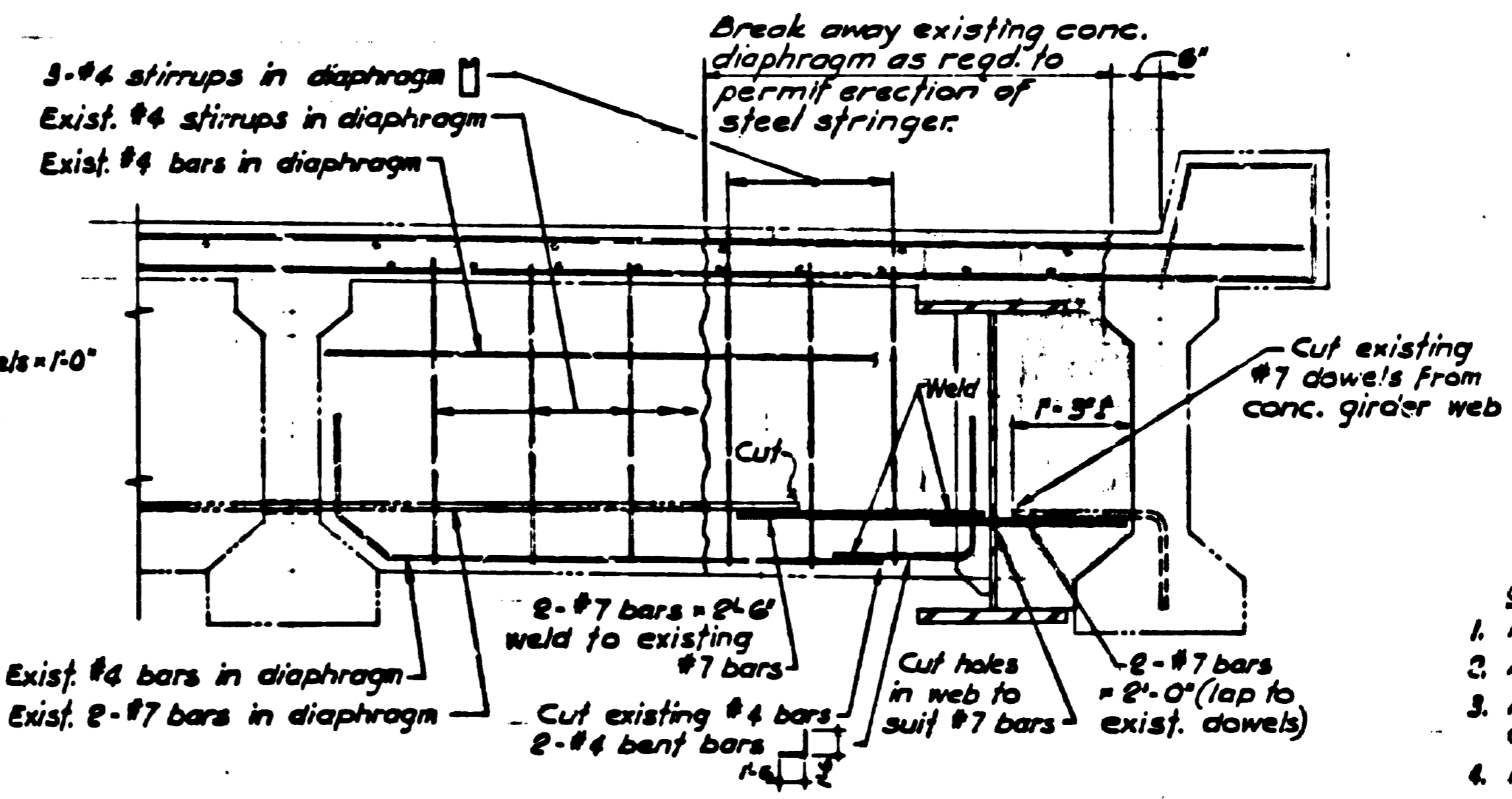
CONSTRUCTION SEQUENCE

1. Break out concrete at end diaphragms and intermediate diaphragms adjacent to damaged girder
2. Break out exist. deck concrete where shown on key plan for installation of shear connector studs to steel stringer
3. Drill and install threaded anchors at end diaphragms
4. Erect and position steel stringer using falsework at splice location & anchor to pier caps.
5. Install studs on steel stringer
6. Erect formwork for new section of diaphragms & replace existing reinf. in diaphragms & deck to original dwgs. Place new reinf. & weld where shown on dwg.
7. Place concrete in diaphragms.
8. Place concrete in deck and between damaged girder and steel stringer as shown on drawing.

Slab to be supported on steel stringer prior to breaking out splice opening



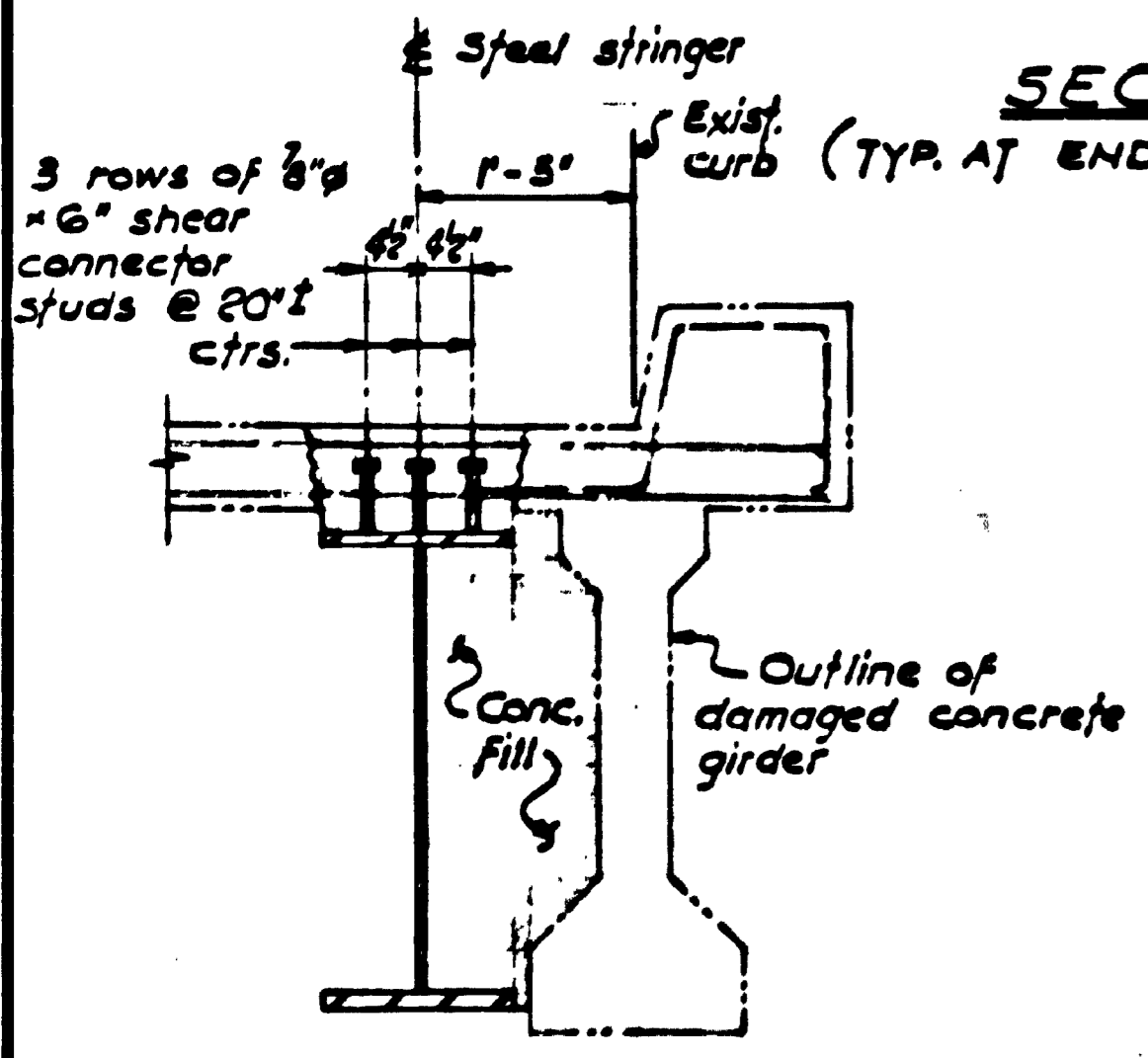
SECTION A-A
(TYP. AT END DIAPHRAGMS)



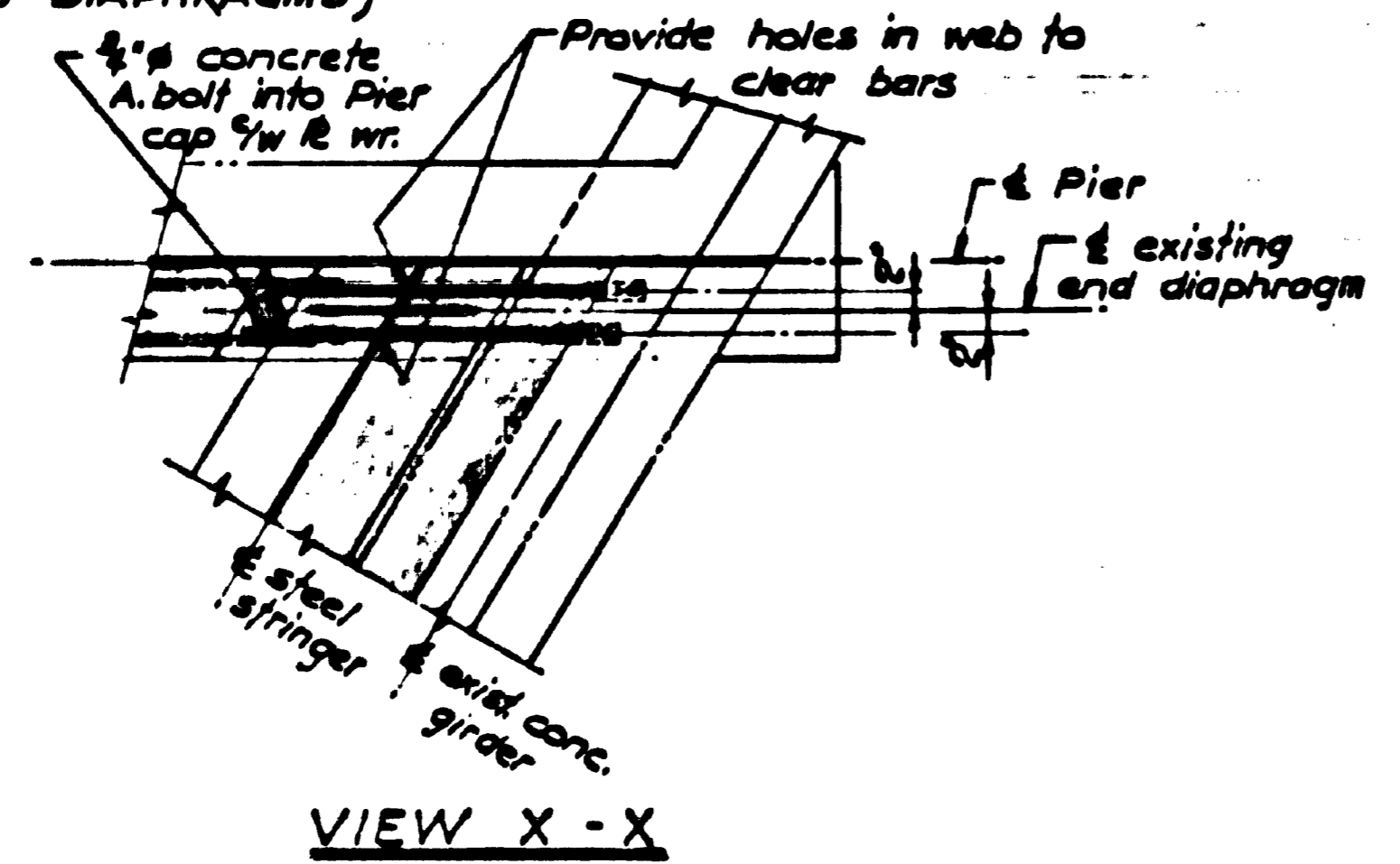
SECTION B-B (TYP. AT INTERMEDIATE DIAPHRAGMS)

General Notes:

1. For Details of steel stringer see Dwg. 1615-20
2. All concrete to be class "A"
3. Reinforcing steel to be C.S.A. Specification G30.12 grade 40
4. Reinforcing steel to have 2" min. cover.



SECTION C-C



VIEW X-X

GOVERNMENT OF BRITISH COLUMBIA
MINISTRY OF TRANSPORTATION AND HIGHWAYS
BRIDGE ENGINEERING BRANCH

CHILLIWACK DISTRICT 158331
TRANS CANADA HIGHWAY
PEARDONVILLE RD UNDERPASS-REPAIRS
CONSTRUCTION DRAWING

D				PREPARED UNDER THE DIRECTION OF	DATE	SCALE: 1/4" = 1'-0" as noted	NEG No
C				<i>[Signature]</i>			
B				DRAWN	D.C. July 81	CHECKED	<i>[Signature]</i> July 81
A	<i>As built</i>	<i>Oct/81</i>		APPROVED FOR USE IN CONSTRUCTION	DATE	EXAMINED AND ACCEPTED	DATE
REVISIONS				<i>[Signature]</i>		MCE/EdA 1981-08-24	DRAWING NO.
						EXECUTIVE DIRECTOR OF ENGINEERING	1615-21 A