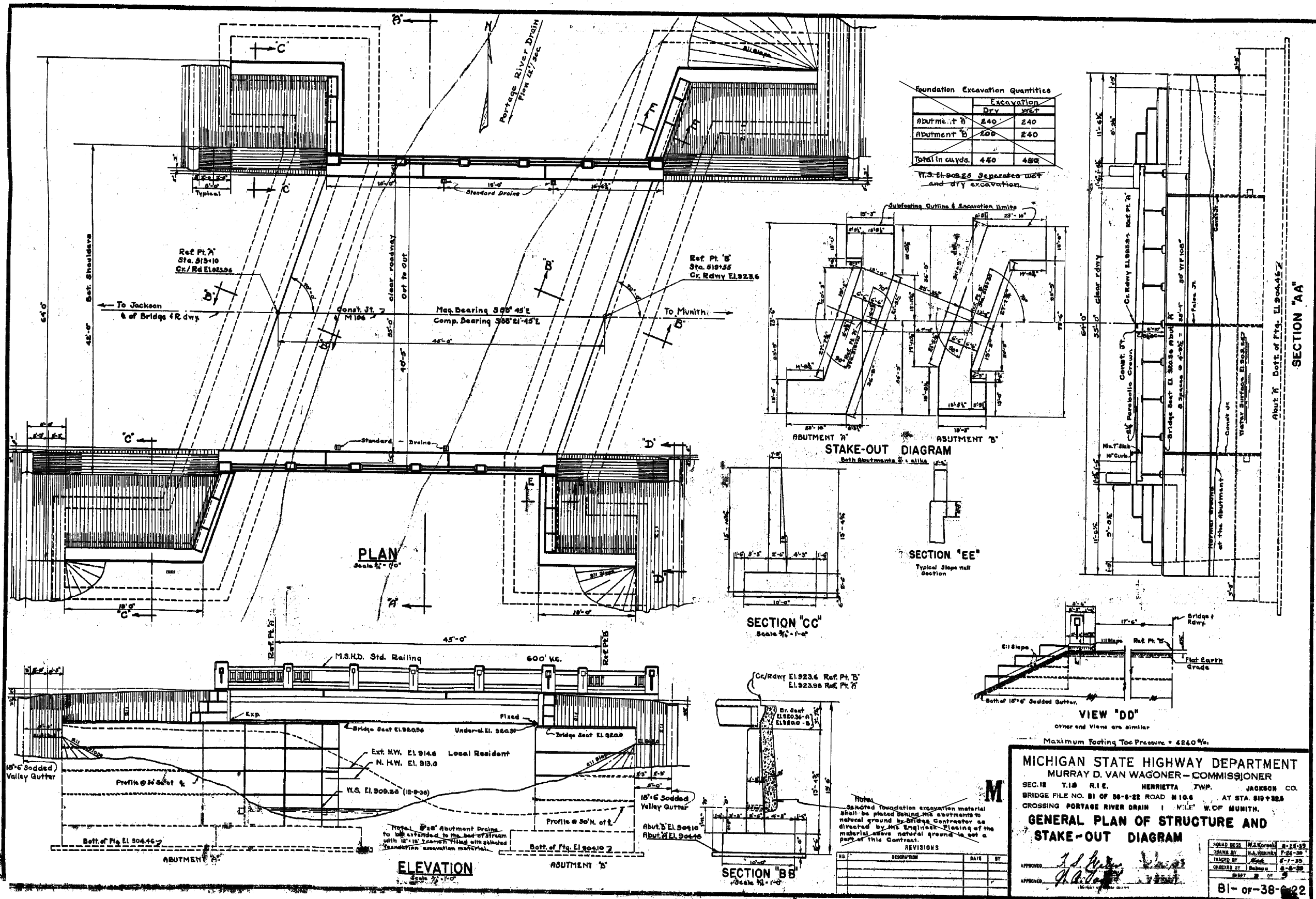


REVISIONS			
NO.	DESCRIPTION	DATE	BY



DO NOT WORK FROM THIS SHEET.  
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 NO PAY ITEMS ARE SHOWN.



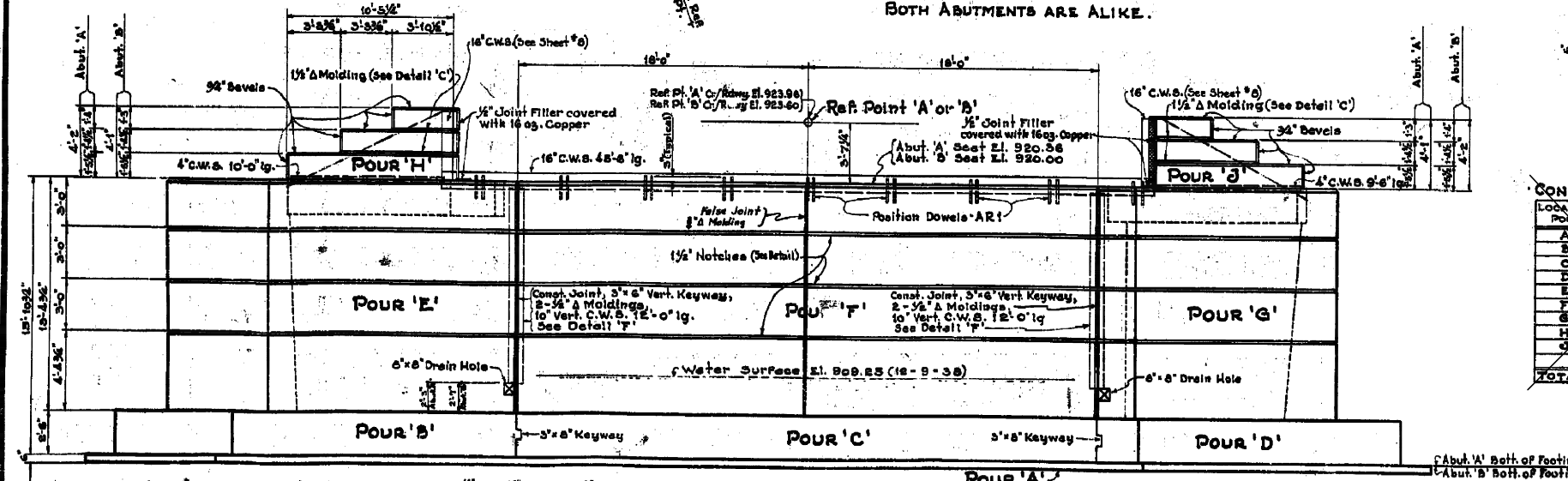
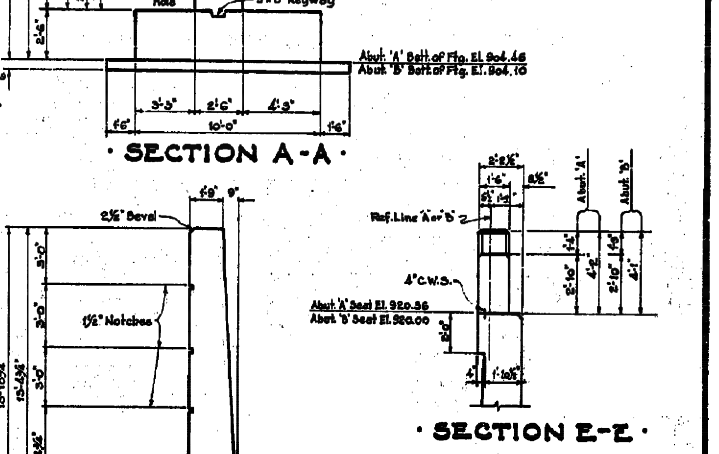
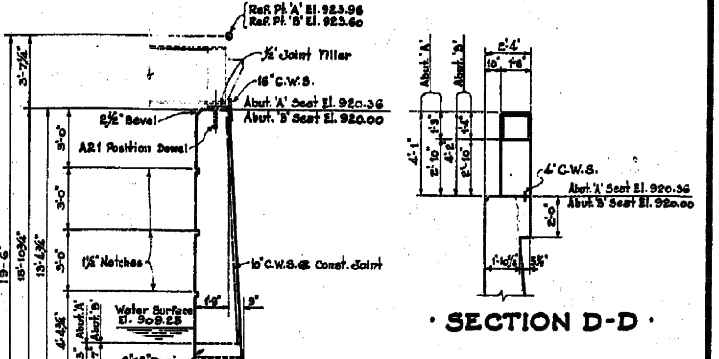
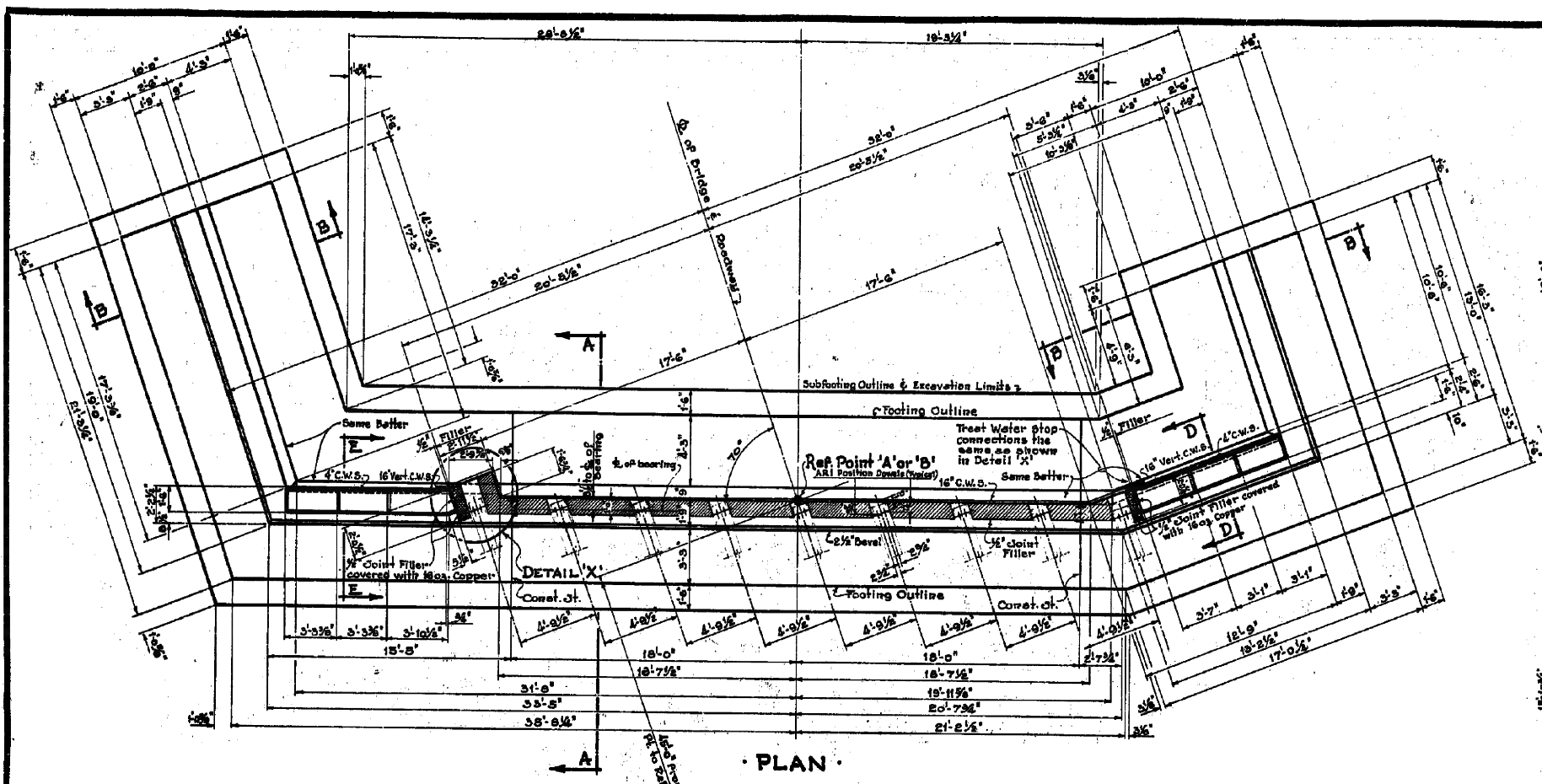
FOR INFORMATION ONLY

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET

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FILE NAME: 60238051.f10  
 DRAWN BY: *[Signature]*  
 CHECKED BY: *[Signature]*  
 CORRECTED BY: *[Signature]*  
 DATE: *[Date]*

REVISIONS			
NO.	DESCRIPTION	DATE	BY



**CONCRETE QUANTITIES**

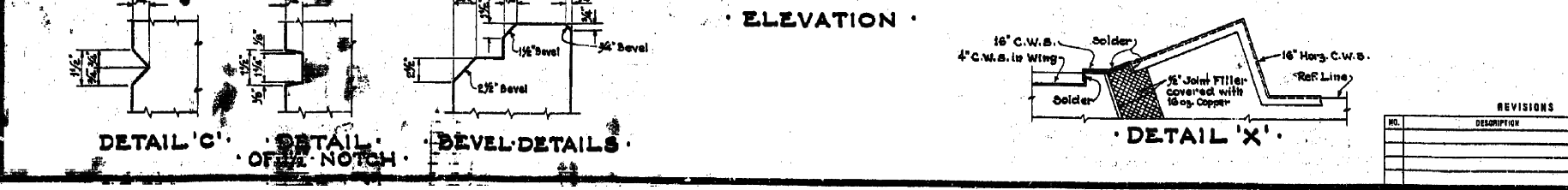
LOCATION	GRADE A - CU. YDS.	GRADE B - CU. YDS.
POUR A	23.1	23.1
B	29.6	29.6
C	33.3	33.3
D	23.1	23.1
E	33.5	33.5
F	33.5	33.5
G	28.1	28.1
H	1.7	1.7
4	1.6	1.6
<b>TOTAL</b>	<b>214.0</b>	<b>214.0</b>

**MISCELLANEOUS QUANTITIES**

DESCRIPTION	QUANTITIES TWO ABUTMENTS
Copper	206
1/2" Joint Filler	90
Rubbed Surface Finish	2710

ARI Position Dowels - 36 Req'd for 2 Abutments. Set Dowels Down to approximately to templates. See Sheet 9-B for listings.

Note: Cast wings along bridge seat elevation after superstructure is complete to top of curb.  
C.W.S. denotes Copper Water Stop.  
Area shaded thus to be covered with 1/2" Joint Filler.  
Stop all vertical keys 6" below bridge seat.



**MICHIGAN STATE HIGHWAY DEPARTMENT**  
MURRAY D. VAN WAGONER - COMMISSIONER  
SEC. 12 T. 15 R. 12 HENRIETTA TWP. JACKSON CO.  
BRIDGE FILE NO. B10-38-6-22 ROAD M 106 AT STA. 519+32.3  
CROSSING PORTAGE RIVER DRAIN 1 MILE W. OF MUNITH

**ABUTMENT GENERAL DETAILS**

APPROVED: *J.L. Fisher* 1/25/29  
APPROVED: *H.A. Smith* 2-24-29

DESIGNED BY: H.A. SMITH  
CHECKED BY: H.A. SMITH  
DATE: 2-24-29

SHEET 9 OF 9  
B10-38-6-22

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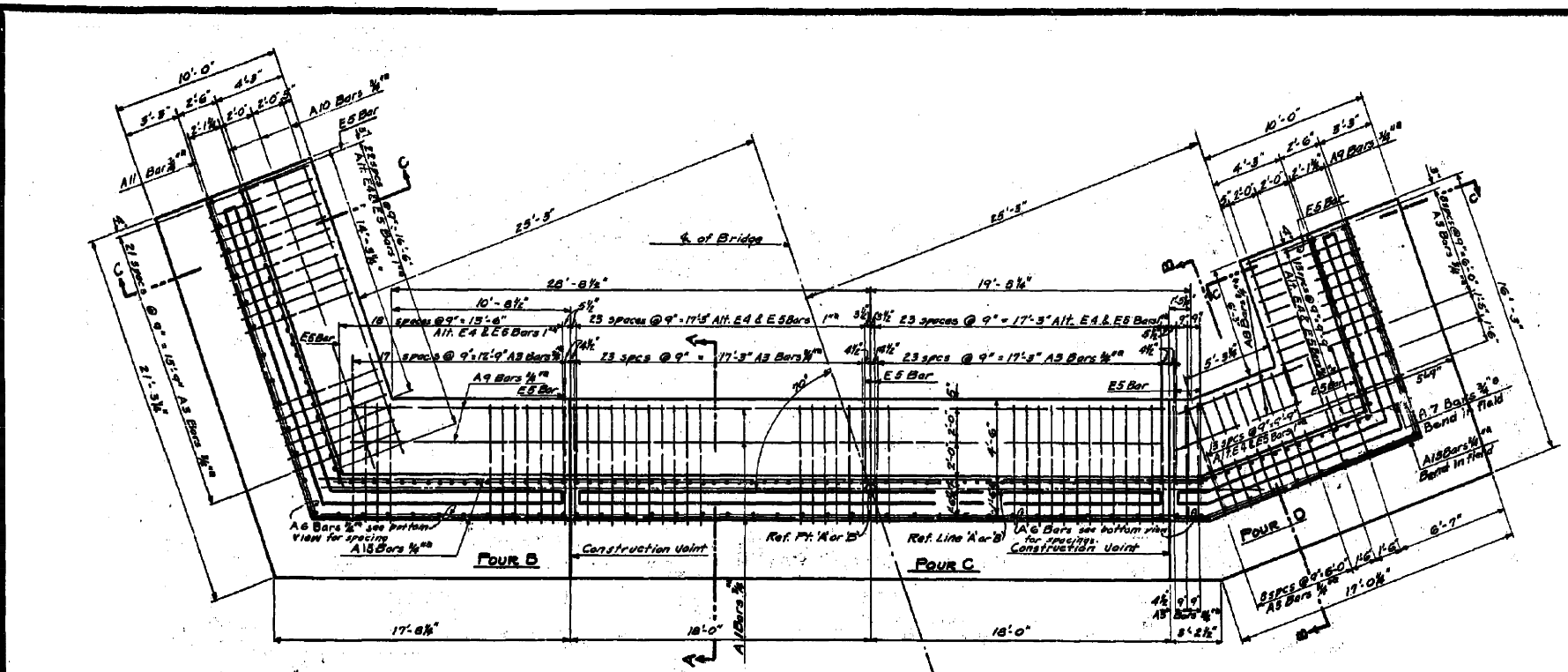


FOR INFORMATION ONLY

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET

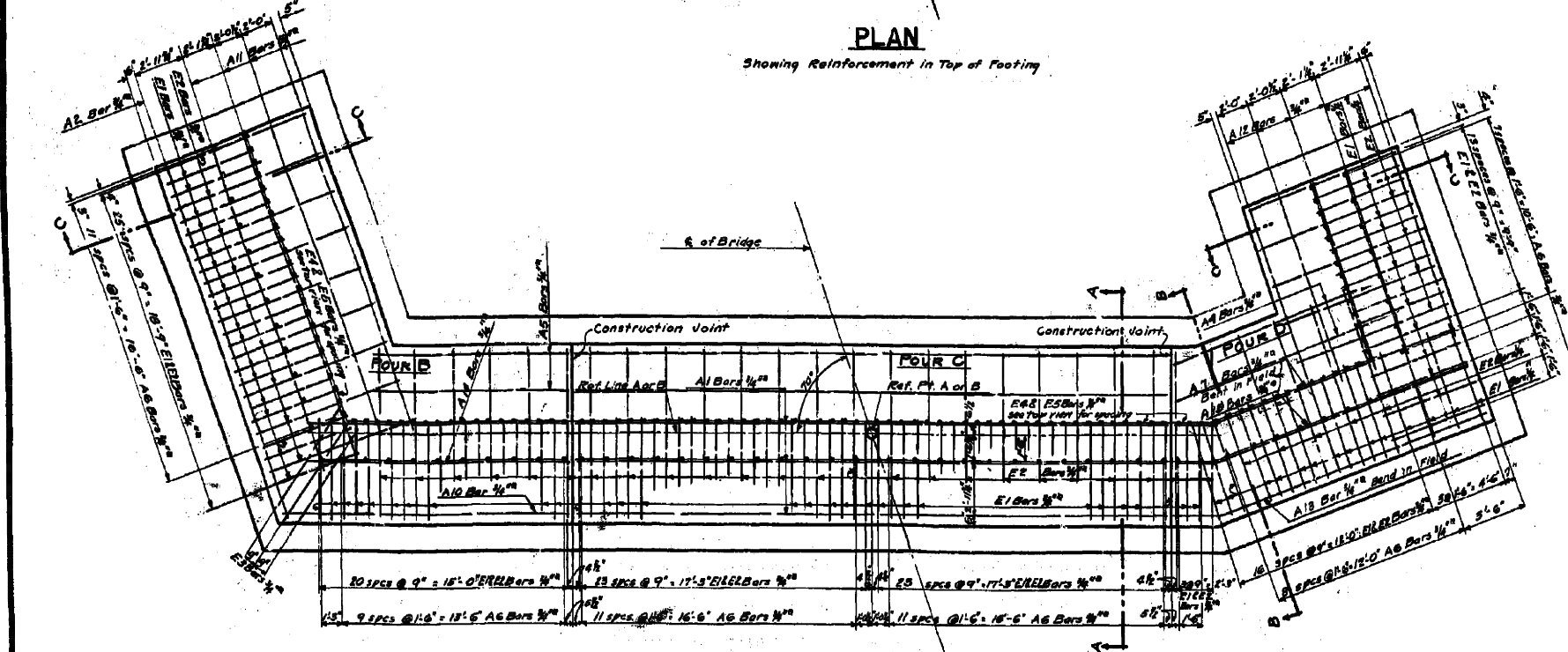
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



**PLAN**

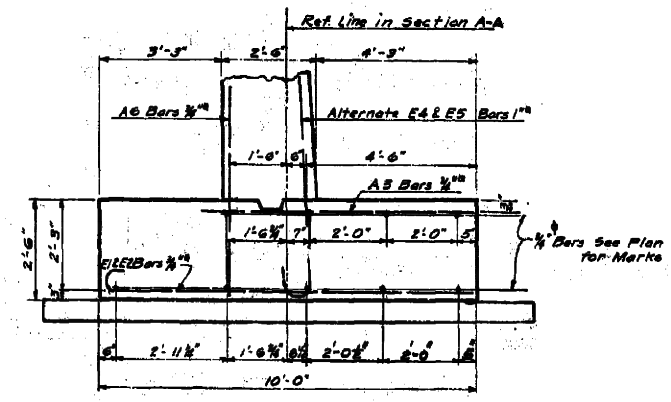
Showing Reinforcement in Top of Footing



**PLAN**

Showing Reinforcement in Bottom of Footing

BAR LIST						
Mark	Size	NUMBER ABUT. A			NUMBER ABUT. B	
		Four B	Four C	Four D	Four B	Four C
A1	3/4"	9			9	
A2	3/4"	1			1	
A3	3/4"	40	48	25	40	48
A4	3/4"			2		2
A5	3/4"	2			2	
A6	3/4"	28	24	19	23	19
A7	3/4"			2		2
A8	3/4"			2		2
A9	3/4"	2		4	2	4
A10	3/4"	4			4	
A11	3/4"	5			5	
A12	3/4"			5		5
A13	3/4"			1		1
A14	3/4"	2			2	
A15	3/4"	2		2	2	2
E1	3/4"	32	32	30	32	30
E2	3/4"	15	10	12	15	12
E3	3/4"	3			3	
E4	3/4"	20	24	15	20	15
E5	3/4"	22	24	16	22	16



**SECTIONS AA, BB, & CC**

Note: For details not shown see sheet No. 5

MICHIGAN STATE HIGHWAY DEPARTMENT  
 MURRAY D. VAN WAGONER - COMMISSIONER  
 SEC. 12 T. 18 R. 1E HENRIETTA TWP. JACKSON CO.  
 BRIDGE FILE NO. B1 OF 38-6-22 ROAD M106 AT STA. 519+32.5  
 CROSSING PORTAGE RIVER DRAIN 1 MILE W. OF MUNITH  
**ABUTMENT FOOTING DETAILS**

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVED: *J. J. [Signature]* 8/22/39  
 ENGINEER  
 APPROVED: *[Signature]* 8-29-39  
 SURVEYOR

SQUAD BOSS: Korzhak A-28-39  
 DRAWN BY: Robson T-27-39  
 TRACED BY: F.E.O. 8-1-39  
 CHECKED BY: [Signature] 8-11-39  
 SHEET 6 OF 9  
**B1 OF 38-6-22**

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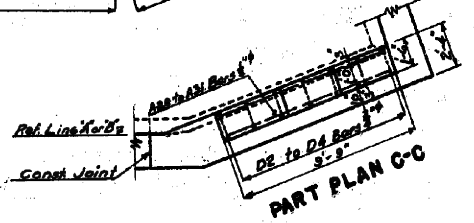
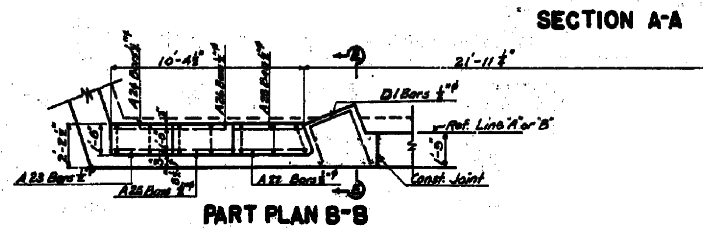
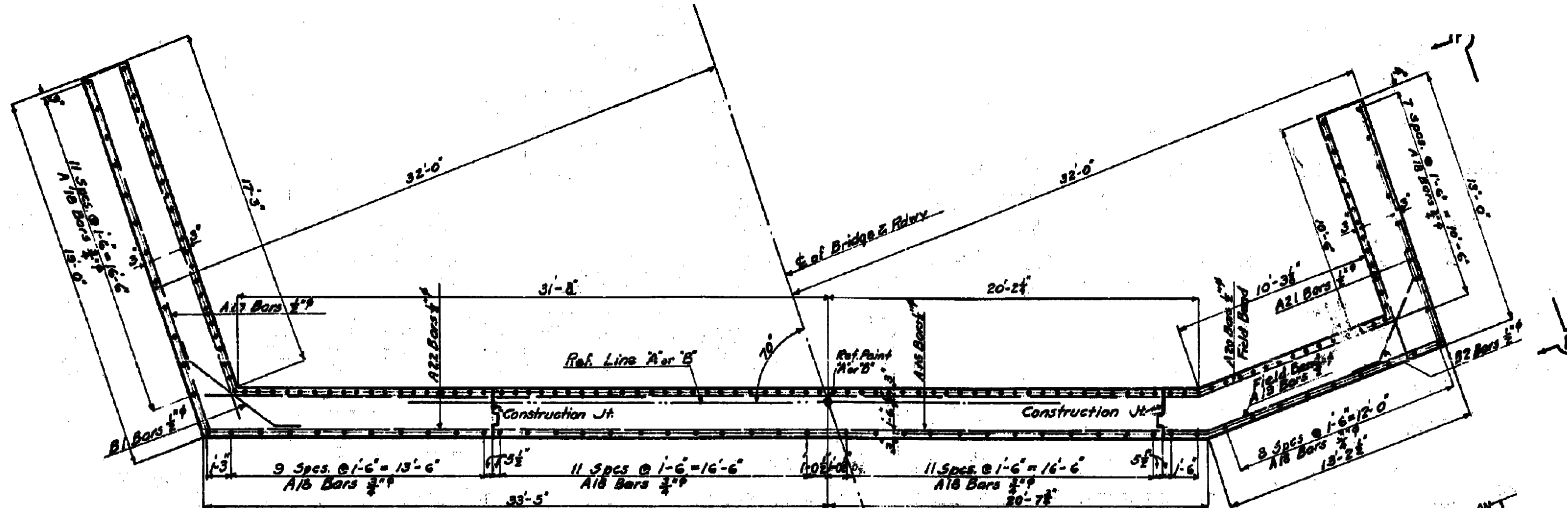
FOR INFORMATION ONLY

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET

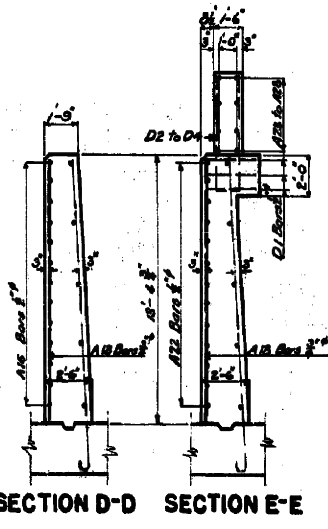
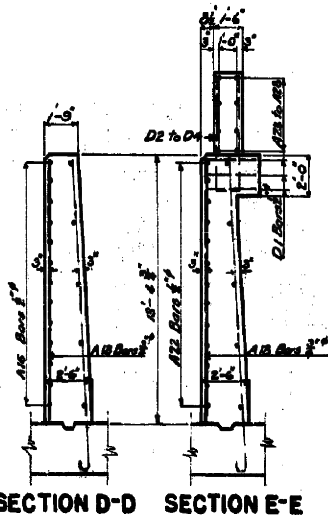
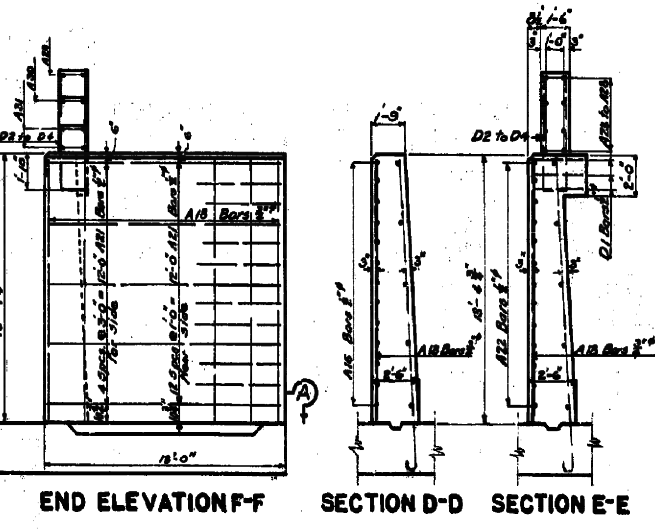
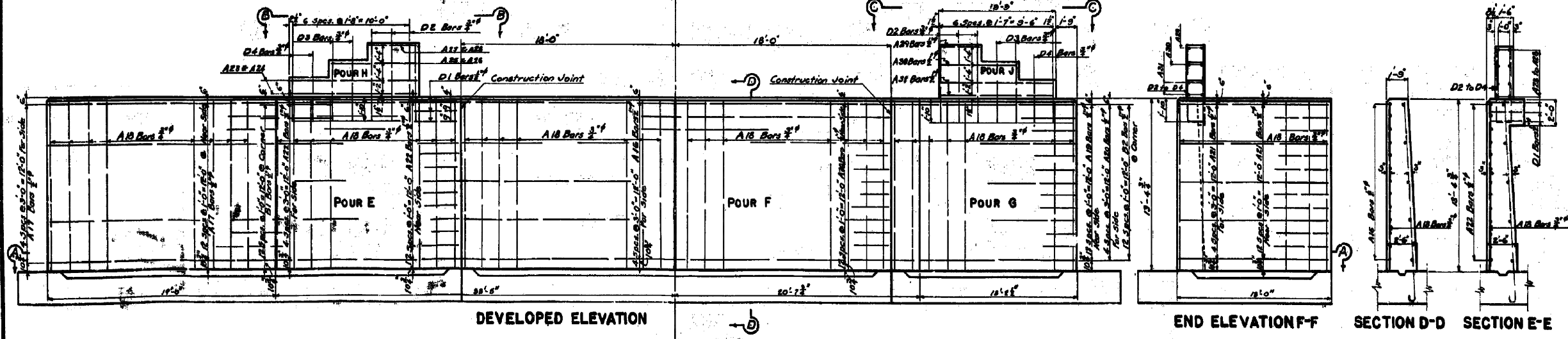
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62

REVISIONS			
NO.	DESCRIPTION	DATE	BY



Mark	Size	NUMBER - ABUT A								NUMBER - ABUT B			
		Pour E		Pour F		Pour G		Pour H		Pour E		Pour F	
		18	18	24	19	13	5	18	18	23	24	19	
A16	#4												
A17	#4												
A18	#4												
A19	#4												
A20	#4												
A21	#4												
A22	#4												
A23	#4												
A24	#4												
A25	#4												
A26	#4												
A27	#4												
A28	#4												
A29	#4												
A30	#4												
A31	#4												
B1	#4												
B2	#4												
D1	#4												
D2	#4												
D3	#4												
D4	#4												



Note: For details not shown see Sheet 45

MICHIGAN STATE HIGHWAY DEPARTMENT  
 MURRAY D. VAN WAGONER - COMMISSIONER  
 SEC. 18 T. 18. R. 18. HERRIETTA TWP. JACKSON CO.  
 BRIDGE FILE NO. 81 OF 38-6-28 ROAD M 106 AT STA. 819+22.6  
 CROSSING PORTAGE RIVER DRAIN 1 MILE W. OF MUNITH

ABUTMENT WALL DETAILS

REVISIONS		
NO.	DESCRIPTION	BY

APPROVED: J.P. Fisher 11/25/29  
 APPROVED: H.A. L... 8-28-29

DESIGNED BY: M. G...  
 CHECKED BY: M. G...  
 DRAWN BY: M. G...  
 TRACED BY: M. G...  
 SQUAD ROOM: M. G...  
 DATE: 8-28-29

BI OF 38-6-22

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FOR INFORMATION ONLY				
DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET

DRAWN BY: DATE: CHECKED BY: DATE: CORRECTED BY: DATE:

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