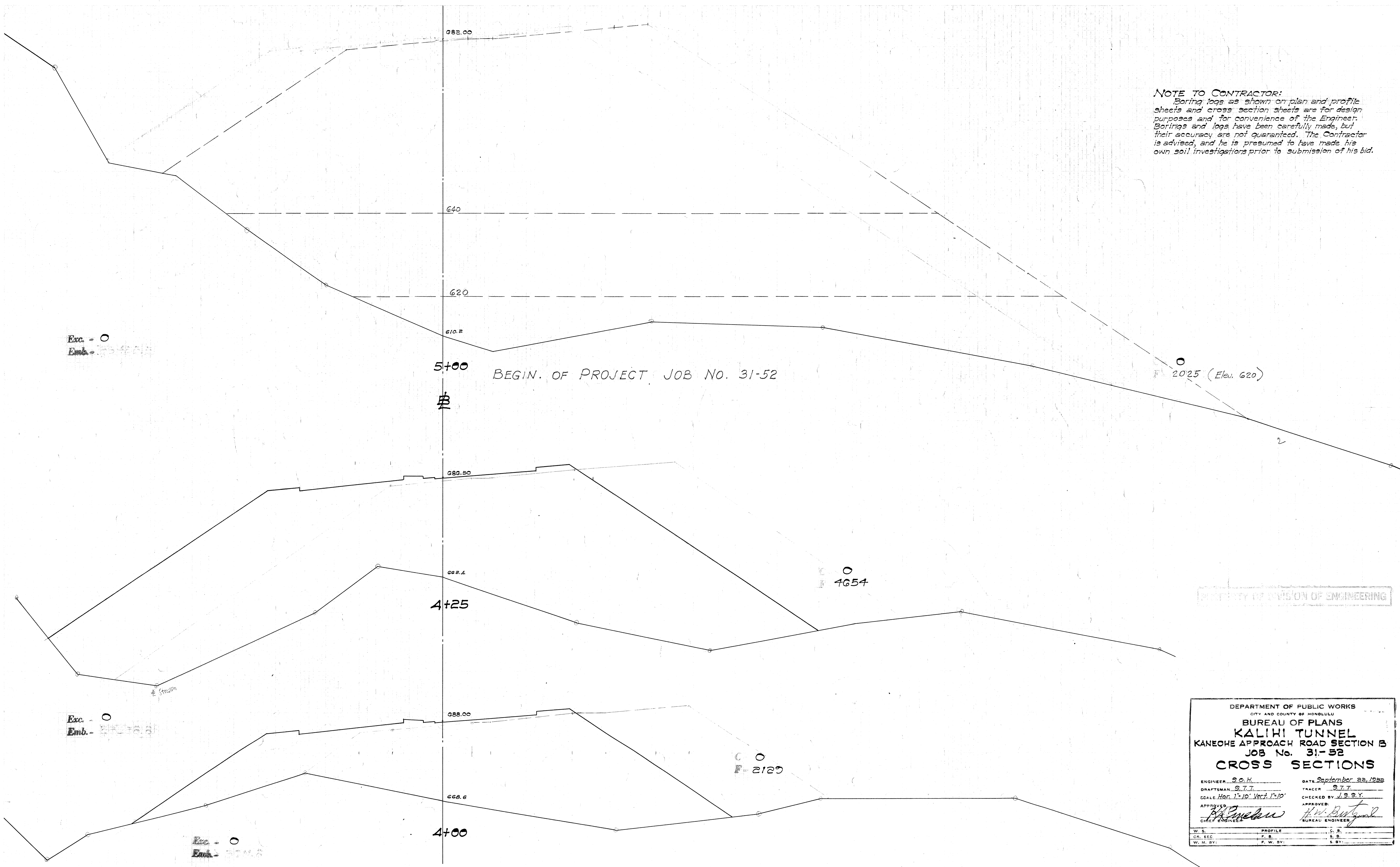


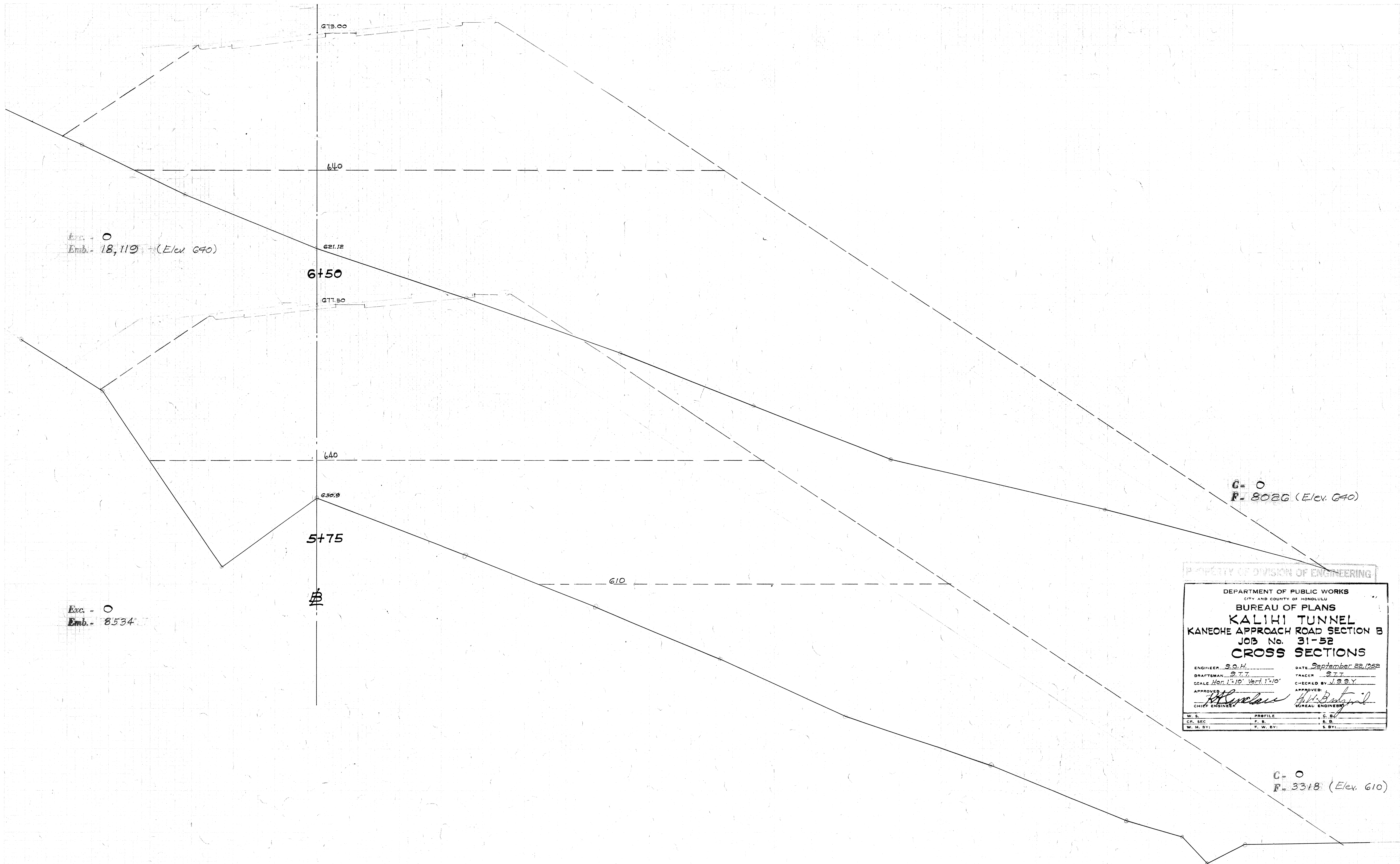
NOTE TO CONTRACTOR:
Boring logs as shown on plan and profile sheets and cross section sheets are for design purposes and for convenience of the Engineer. Borings and logs have been carefully made, but their accuracy are not guaranteed. The Contractor is advised, and he is presumed to have made his own soil investigations prior to submission of his bid.



PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS			
CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANEIHE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER S.O.H.	DATE September 22, 1952		
DRAFTSMAN S.T.T.	TRACER S.T.T.		
SCALE Hor. 1"=10' Vert. 1"=10'	CHECKED BY J.S.S.Y.		
APPROVED <i>[Signature]</i>	APPROVED <i>[Signature]</i>		
CHIEF ENGINEER	BUREAU ENGINEER		
W. S.	PROFILE	C. B.	
C.R. SEC.	P. B.	S. B.	
W. M. BY:	P. W. BY:	S. BY:	

FILE	POCKET	FOLDER	NO.
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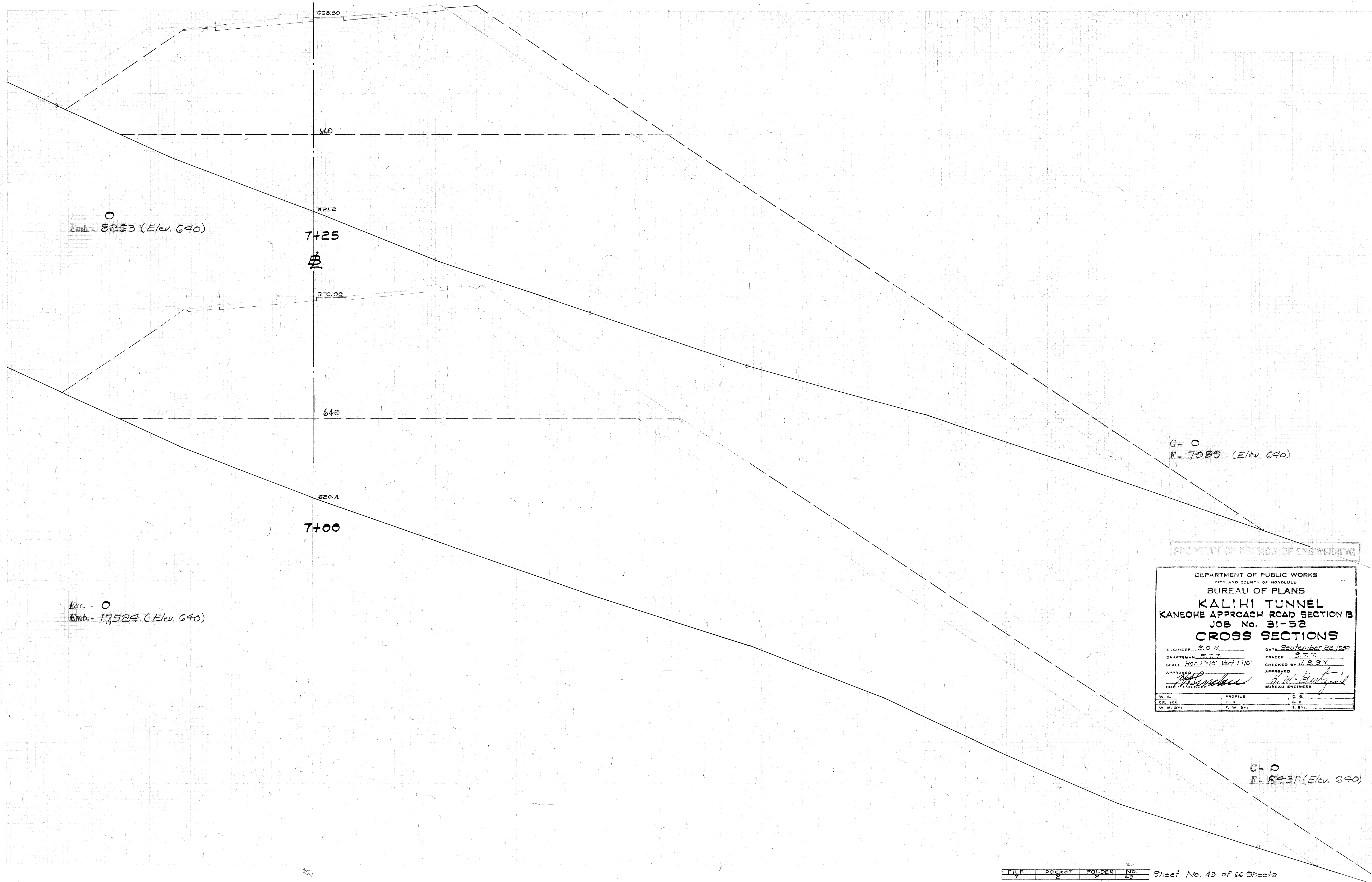


PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
KANEHOE APPROACH ROAD SECTION B
JOB No. 31-52
CROSS SECTIONS

ENGINEER: S.O.H. DATE: September 28, 1952
DRAFTSMAN: S.T.T. TRACER: S.T.T.
SCALE: Hor. 1"=10' Vert. 1"=10' CHECKED BY: J.S.S.Y.
APPROVED: [Signature] APPROVED: [Signature]
CHIEF ENGINEER BUREAU ENGINEER

W. S.	PROFILE	C. S.
CR. SEC.	F. S.	S. B.
W. M. BY:	F. W. BY:	S. BY:



PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU BUREAU OF PLANS KALIHI TUNNEL KANEHOE APPROACH ROAD SECTION B JOB No. 31-52 CROSS SECTIONS			
ENGINEER <u>S.O.H.</u>	DATE <u>September 22, 1922</u>	TRACER <u>S.T.T.</u>	
DRAFTSMAN <u>S.T.T.</u>	SCALE <u>Hor. 1"=10' Vert. 1"=10'</u>	CHECKED BY <u>J.S.S.Y.</u>	
APPROVED <u>[Signature]</u>	APPROVED <u>[Signature]</u>		
CHIEF ENGINEER	BUREAU ENGINEER		
W. S.	PROFILE	C. S.	
CR. SEC.	F. S.	E. S.	
W. M. BY:	F. W. BY:	E. BY:	

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640

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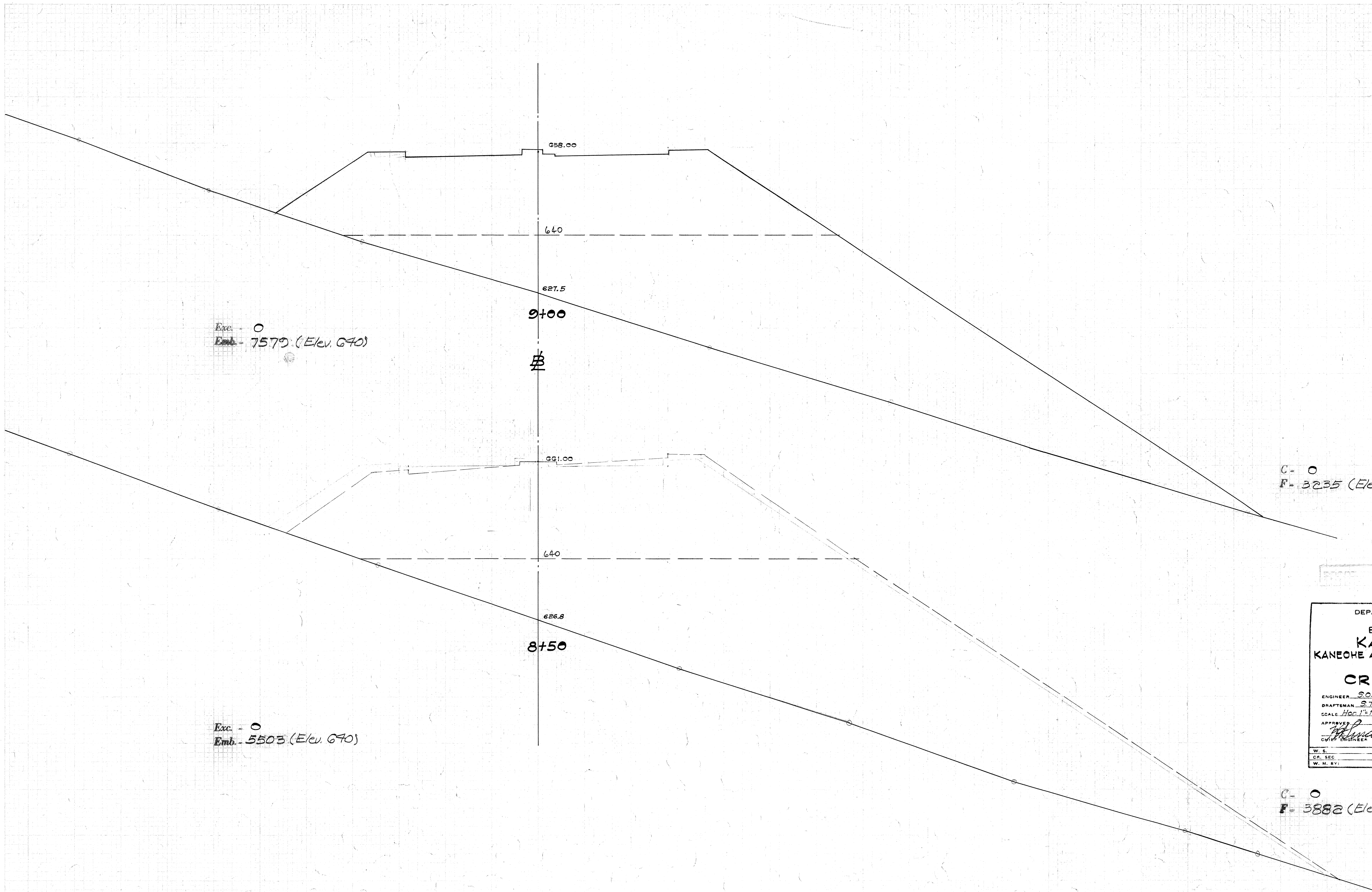
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Emb. 7204 (Elev. 640)

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Emb. 6441 (Elev. 640)

PROPERTY OF DIVISION OF ENGINEERING

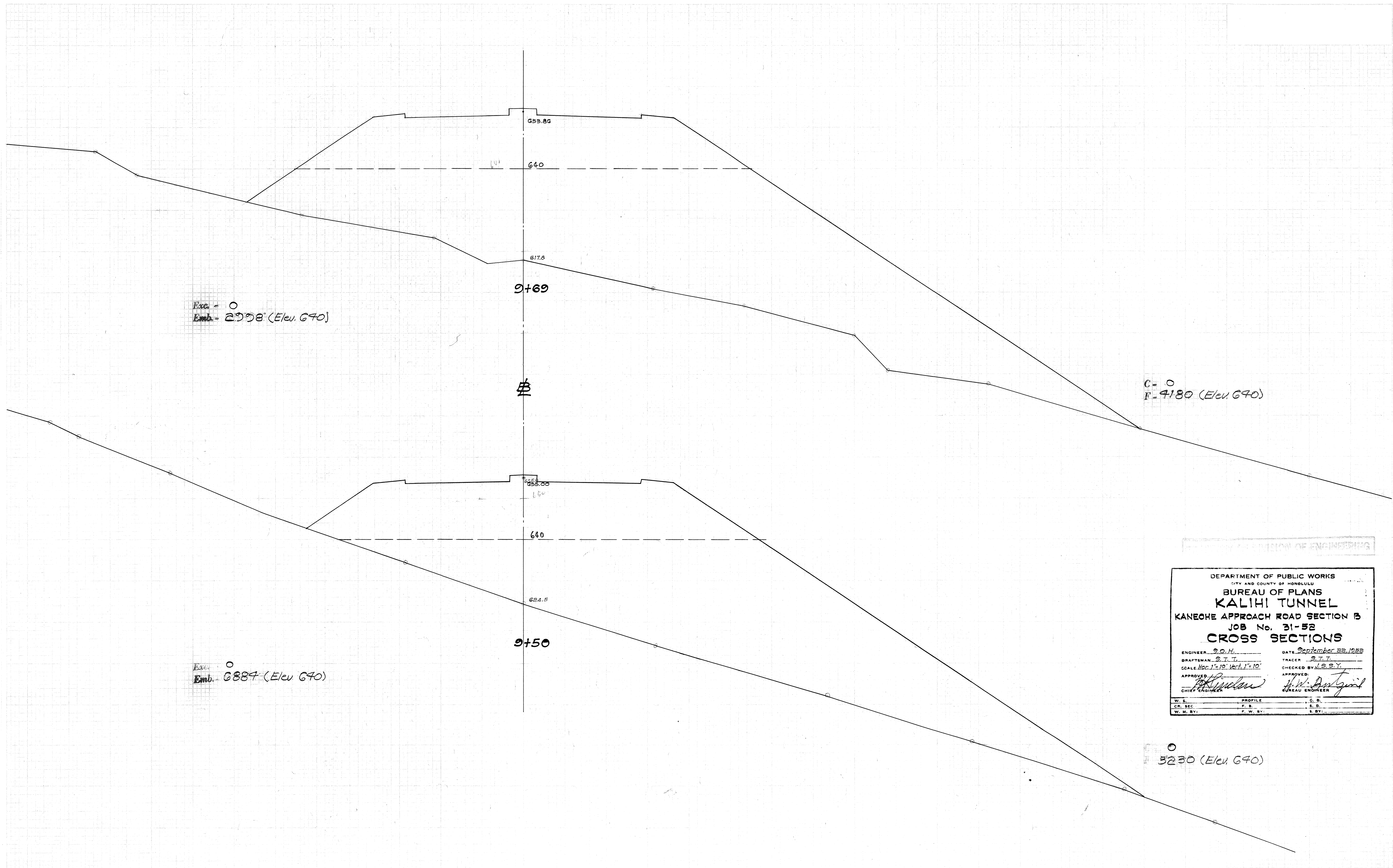
DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANEHOE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER S.O.H.	DATE September 22, 1952		
DRAFTSMAN S.T.T.	TRACER S.T.T.		
SCALE Hor. 1"=10' Vert. 1"=10'	CHECKED BY J.S.Y.		
APPROVED <i>[Signature]</i>	APPROVED <i>[Signature]</i>		
CHIEF ENGINEER	BUREAU ENGINEER		
W.S.	PROFILE	C.B.	
C.R. SEC.	F.B.	S.B.	
W.M. BY:	F.W. BY:	S. BY:	



DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
KANEHOE APPROACH ROAD SECTION B
JOB No. 31-52
CROSS SECTIONS

ENGINEER S.O.H. DATE September 22, 1953
DRAFTSMAN S.T.T. TRACER S.T.T.
SCALE Hor. 1"=10' Vert. 1"=10' CHECKED BY J.S.S.Y.
APPROVED [Signature] APPROVED [Signature]
CHIEF ENGINEER BUREAU ENGINEER

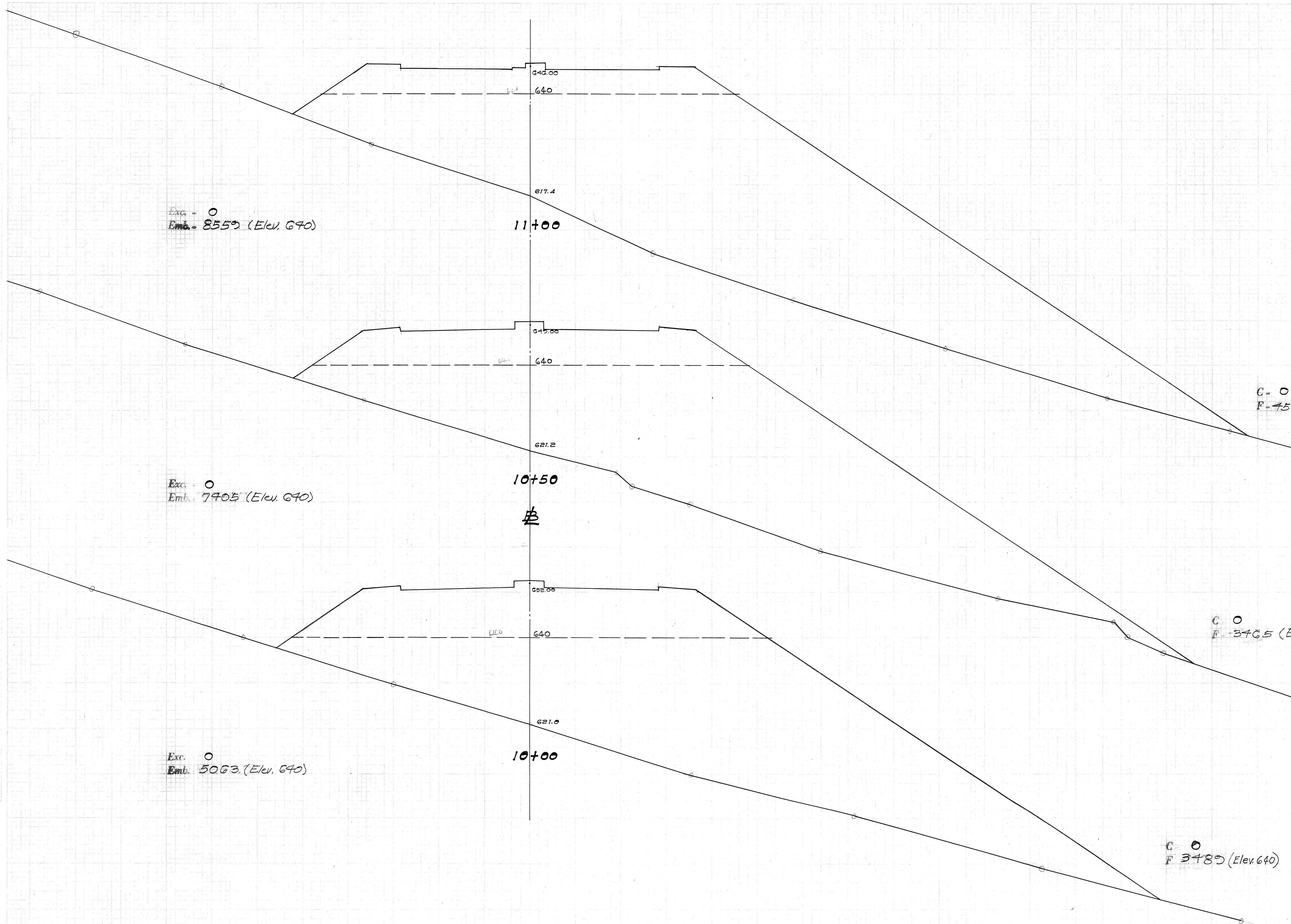
W. S.	PROFILE	C. S.
CH. SEC.	P. B.	S. B.
W. M. BY:	P. W. BY:	S. BY:



DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
KANEHOE APPROACH ROAD SECTION B
JOB No. 31-52
CROSS SECTIONS

ENGINEER *S.O.H.* DATE *September 22, 1952*
DRAFTSMAN *S.T.T.* TRACER *S.T.T.*
SCALE *Hor. 1"=10' Vert. 1"=10'* CHECKED BY *J.S.S.Y.*
APPROVED: *[Signature]* *[Signature]*
CHIEF ENGINEER BUREAU ENGINEER

W. E.	PROFILE	C. B.
CR. SEC.	F. W. BY:	E. BY:
W. M. BY:		



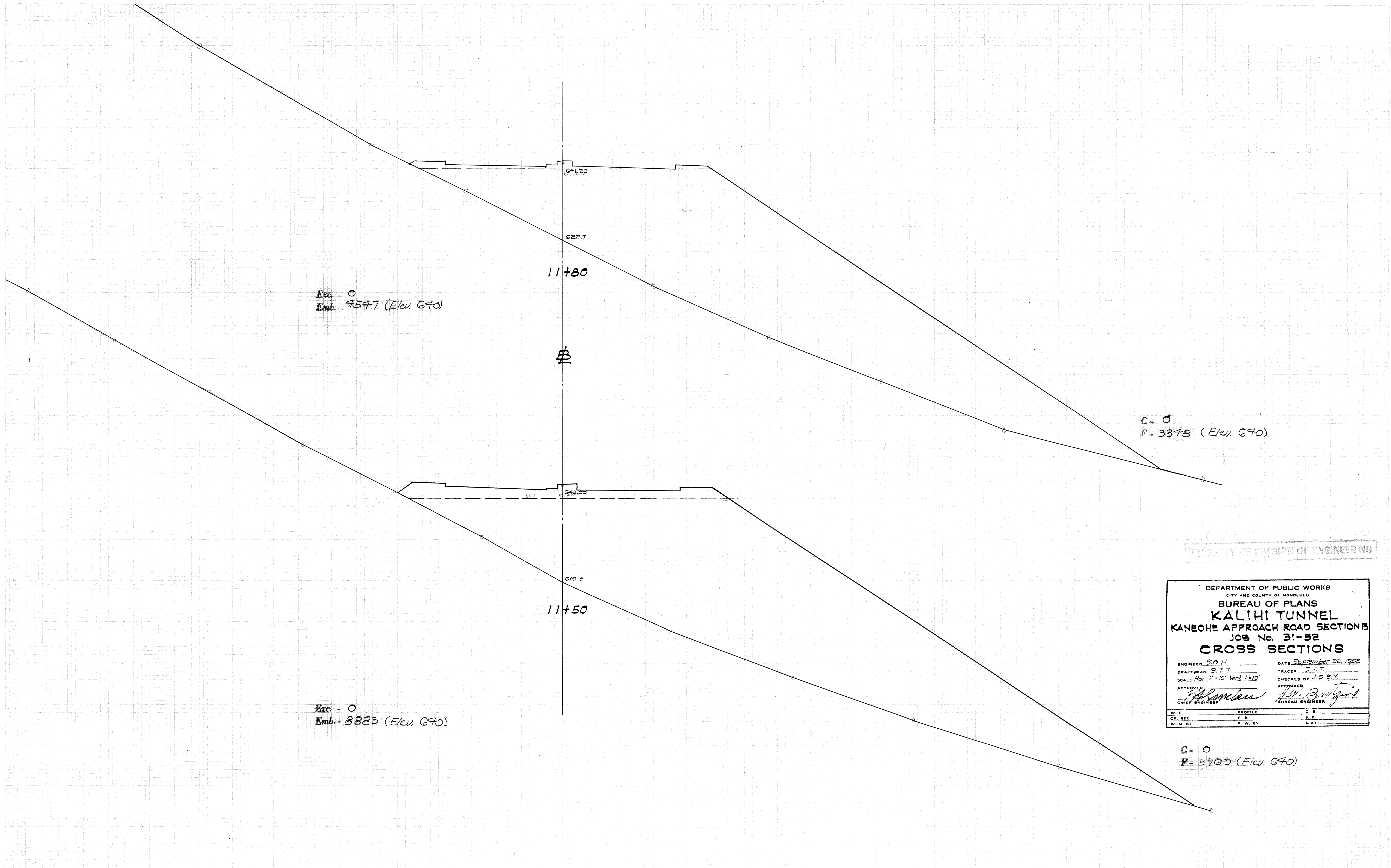
PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS			
CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANEOME APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER <u>S.D.H.</u>	DATE <u>September 22, 1952</u>		
DRAFTSMAN <u>S.T.T.</u>	TRACER <u>S.T.T.</u>		
SCALE <u>Hor. 1"=10'</u> <u>Vert. 1"=10'</u>	CHECKED BY <u>J.S.S.Y.</u>		
APPROVED <u>[Signature]</u>	APPROVED <u>[Signature]</u>		
CHIEF ENGINEER	BUREAU ENGINEER		
W. E.	PROFILE	C. B.	
CR. SEC.	F. B.	S. B.	
W. M. BY:	F. W. BY:	S. BY:	

FILE	POCKET	FOLDER	NO.
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Sheet No. 47 of 66 Sheets

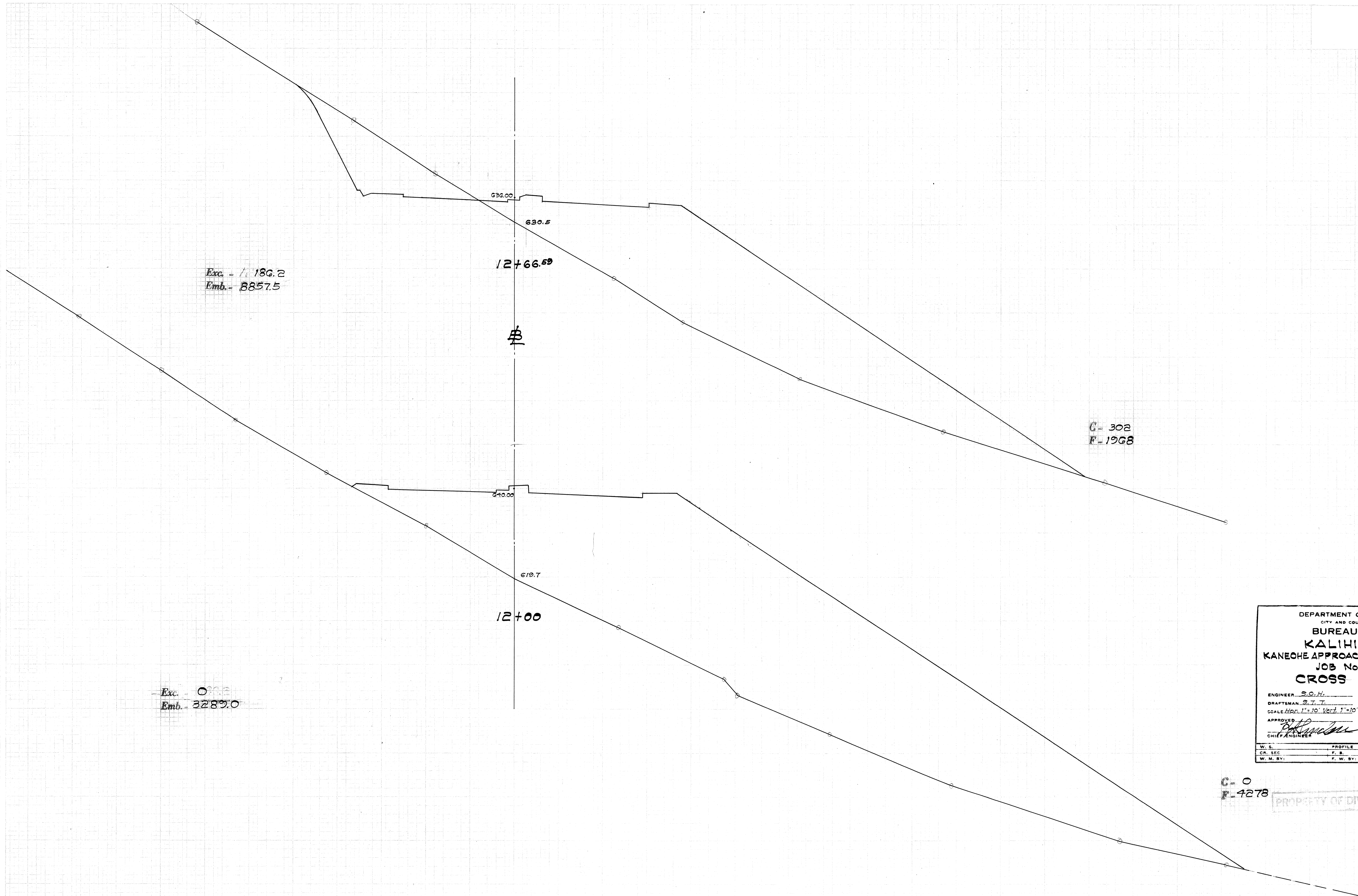
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PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANEHOE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER <u>S.O.H.</u>	DATE <u>September 22, 1952</u>		
DRAFTSMAN <u>S.T.T.</u>	TRACER <u>S.T.T.</u>		
SCALE <u>Hor. 1"=10' Vert. 1"=10'</u>	CHECKED BY <u>J.S.S.Y.</u>		
APPROVED <u>[Signature]</u> CHIEF ENGINEER	APPROVED <u>[Signature]</u> BUREAU ENGINEER		
W. S.	PROFILE	C. S.	
CR. SEC.	F. B.	S. B.	
W. M. BY:	F. W. BY:	S. BY:	

C. 0
F. - 3760 (Elev. 670)



C- 302
F- 1968

DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANEHOE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER <u>S.O.H.</u>	DATE <u>September 22, 1952</u>		
DRAFTSMAN <u>S.T.T.</u>	TRACER <u>S.T.T.</u>		
SCALE <u>Hor. 1"=10'</u> <u>Vert. 1"=10'</u>	CHECKED BY <u>J.S.S.Y.</u>		
APPROVED <u>[Signature]</u> CHIEF ENGINEER	APPROVED <u>[Signature]</u> BUREAU ENGINEER		
W. S. <u> </u>	PROFILE <u> </u>	C. S. <u> </u>	
CR. SEC. <u> </u>	F. S. <u> </u>	S. S. <u> </u>	
W. M. BY: <u> </u>	F. W. BY: <u> </u>	S. BY: <u> </u>	

C- 0
F- 4278

PROPERTY OF DIVISION OF ENGINEERING

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Sheet No. 49 of 66 Sheets

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Emb. - 230.4

G31.00

13+50

#

C-1788
F-0

Exc. - 7607.4
Emb. - 0

G25.00

14+50

#

C-4422
F-0

Exc. - 1710.2
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G34.00

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Exc. - 5168.5
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G28.00

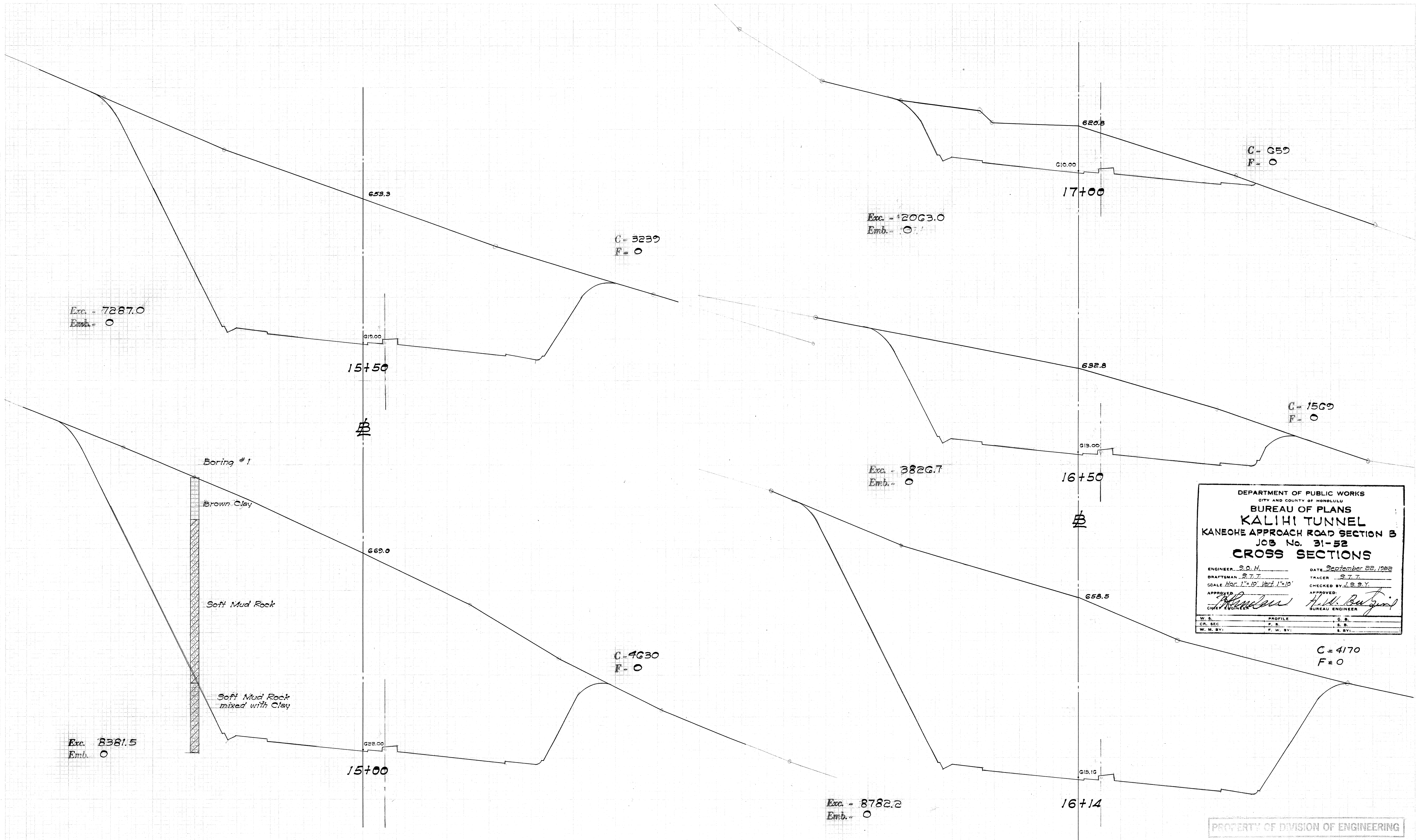
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DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANEHOE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER <u>S.O.H.</u>	DATE <u>September 22, 1952</u>		
DRAFTSMAN <u>S.T.T.</u>	TRACER <u>S.T.T.</u>		
SCALE <u>Hor. 1"=10' Vert. 1"=10'</u>	CHECKED BY <u>J.S.S.Y.</u>		
APPROVED <u>[Signature]</u>	APPROVED <u>[Signature]</u>		
CHIEF ENGINEER	BUREAU ENGINEER		
W. S.	PROFILE	C. S.	
C.R. SEC.	F. S.	S. S.	
W. M. BY:	F. W. BY:	S. BY:	

PROPERTY OF DIVISION OF ENGINEERING

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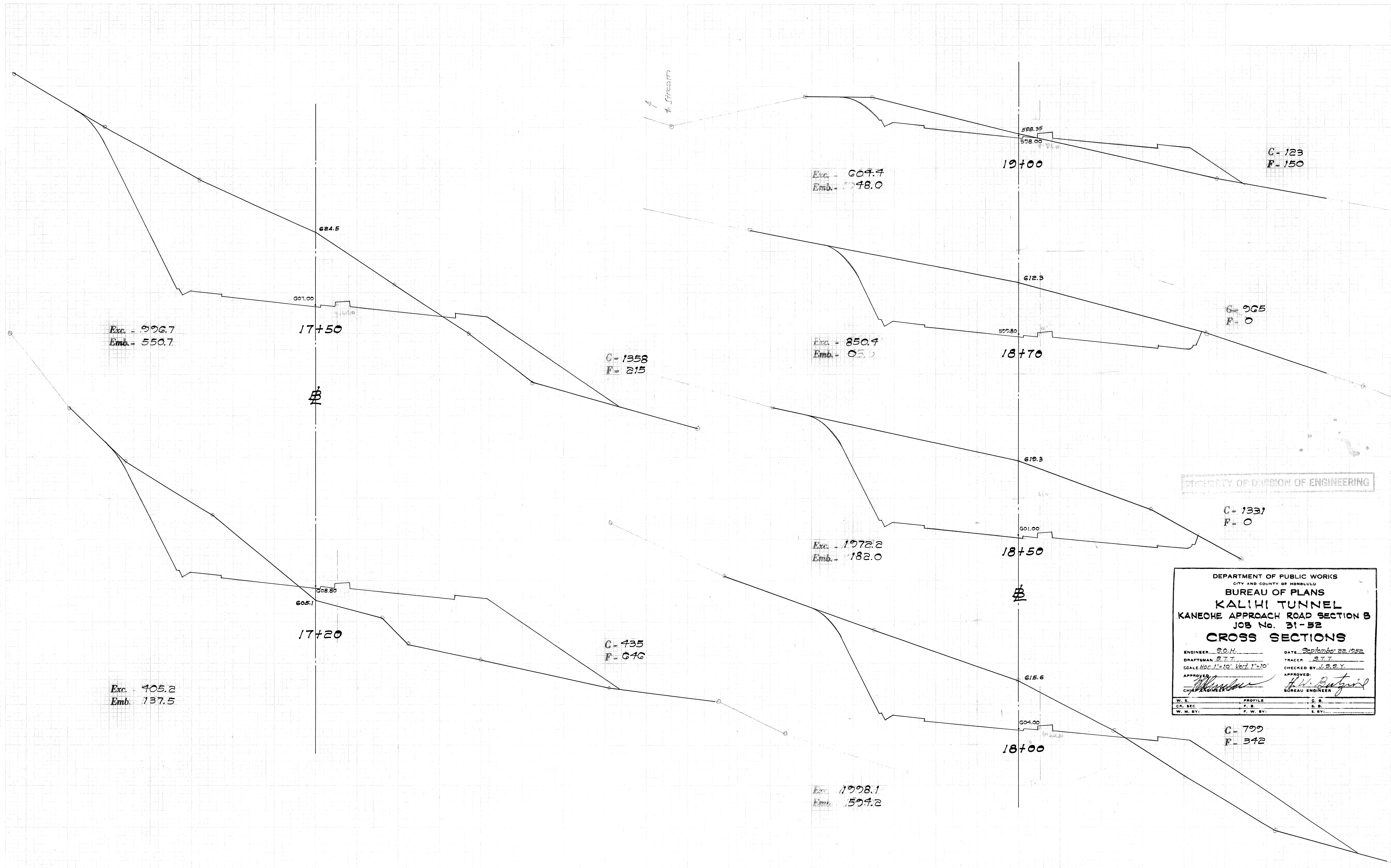
Sheet No. 50 of 66 Sheets



DEPARTMENT OF PUBLIC WORKS			
CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANEHOE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER: S. O. H.	DATE: September 22, 1952		
DRAFTSMAN: S. T. T.	TRACER: S. T. T.		
SCALE: Hor. 1"=10' Vert. 1"=10'	CHECKED BY: J. B. S. Y.		
APPROVED: [Signature]	APPROVED: [Signature]		
CHIEF ENGINEER	BUREAU ENGINEER		
W. S.	PROFILE	C. B.	
CR. SEC.	F. B.	S. B.	
W. M. BY:	F. W. BY:	S. BY:	

PROPERTY OF DIVISION OF ENGINEERING

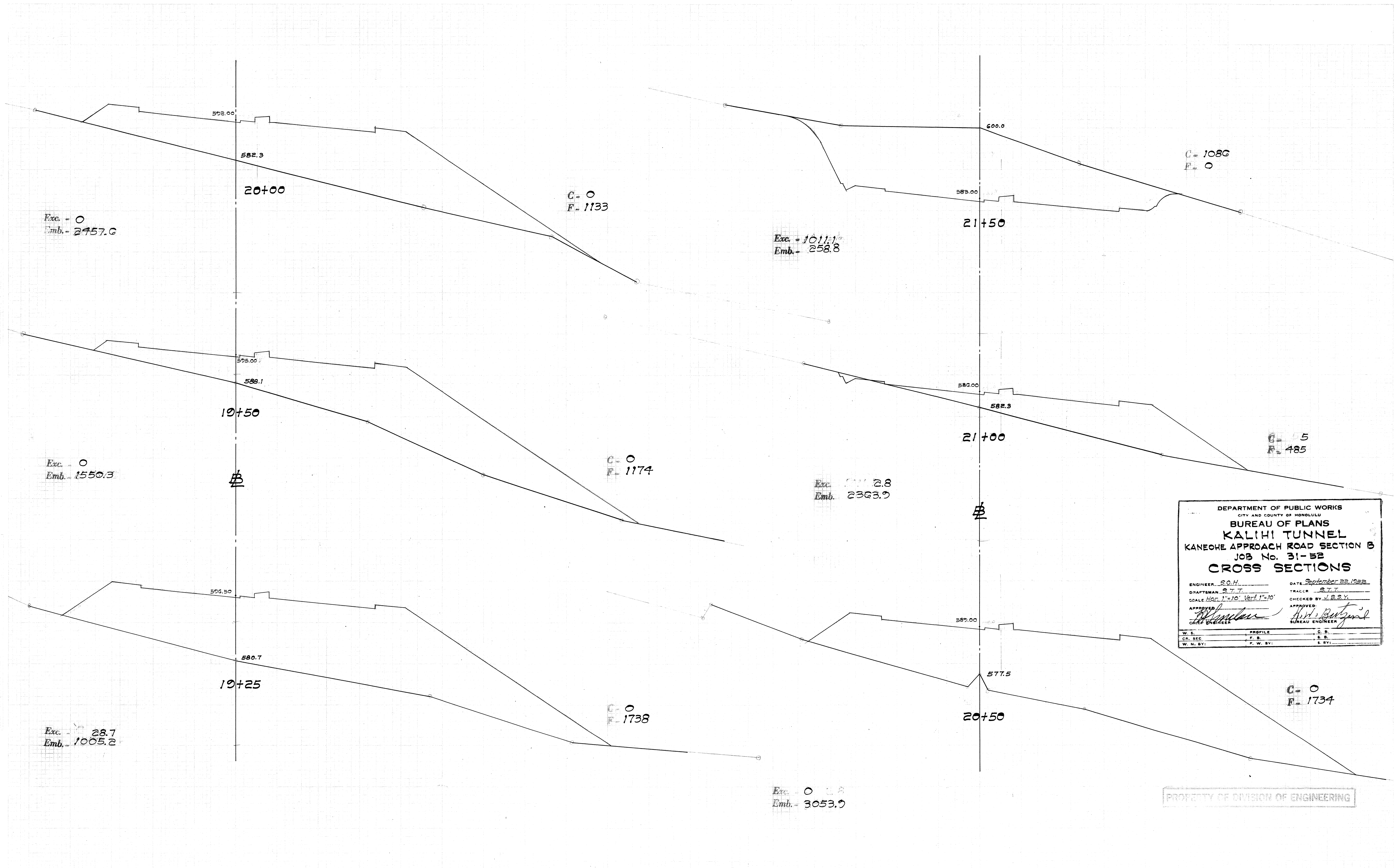
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DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
KANEKHE APPROACH ROAD SECTION B
JOB No. 31-52
CROSS SECTIONS

ENGINEER: S.O.H. DATE: September 22, 1952
DRAFTSMAN: S.T.T. TRACER: S.T.T.
SCALE: HORIZ. 1"=10' Vert. 1"=10' CHECKED BY: J.S.S.Y.
APPROVED: [Signature] APPROVED: [Signature]
CHIEF ENGINEER BUREAU ENGINEER

W. S.	PROFILE	C. S.
CH. SEC.	P. S.	S. S.
W. M. BY:	P. W. BY:	S. BY:



DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
KANEOHE APPROACH ROAD SECTION B
JOB No. 31-52
CROSS SECTIONS

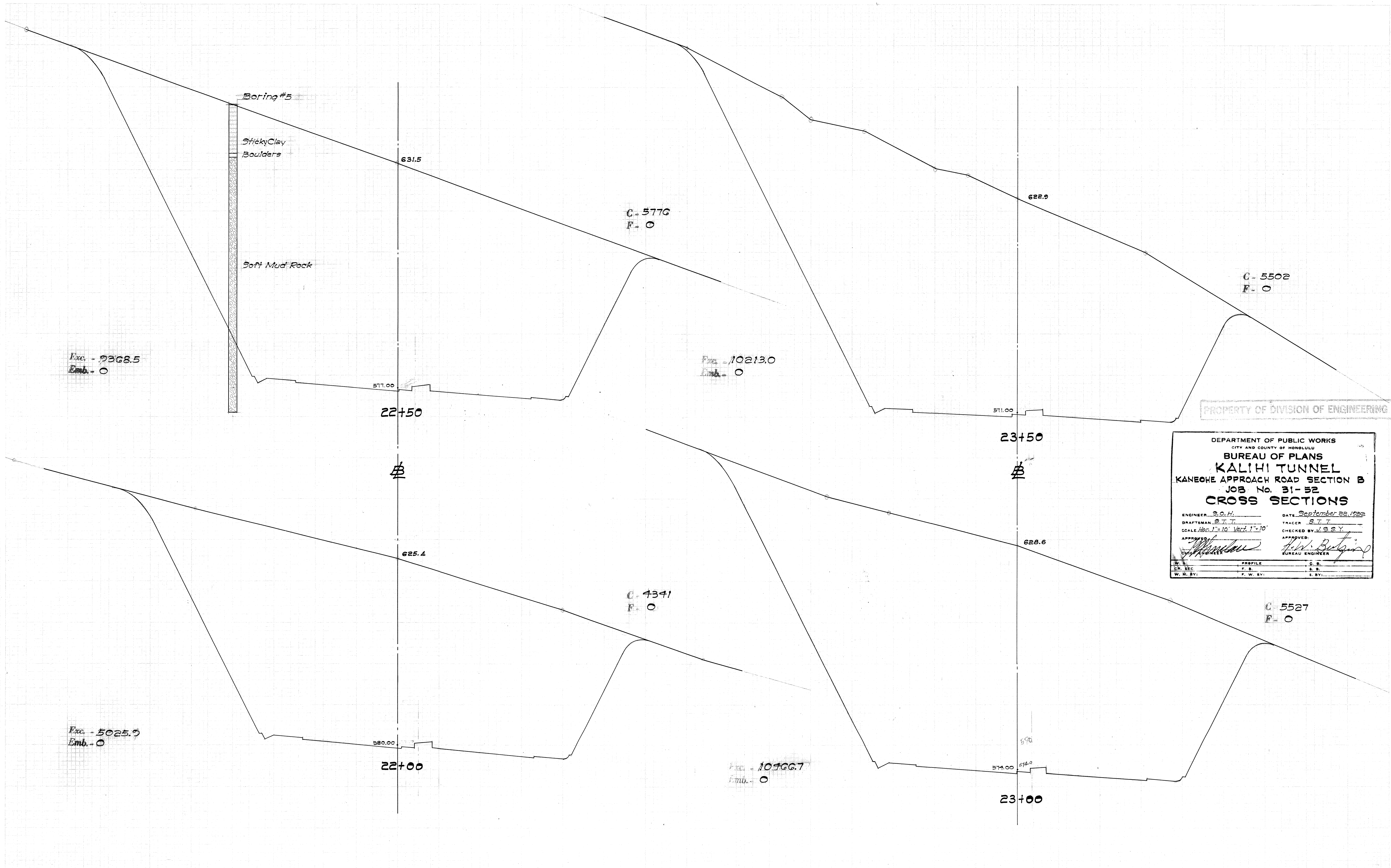
ENGINEER S.O.H. DATE September 28, 1922
DRAFTSMAN S.T.T. TRACER S.T.T.
SCALE Hor. 1"=10' Vert. 1"=10' CHECKED BY J.B.S.Y.
APPROVED: [Signature] [Signature]
CHIEF ENGINEER BUREAU ENGINEER

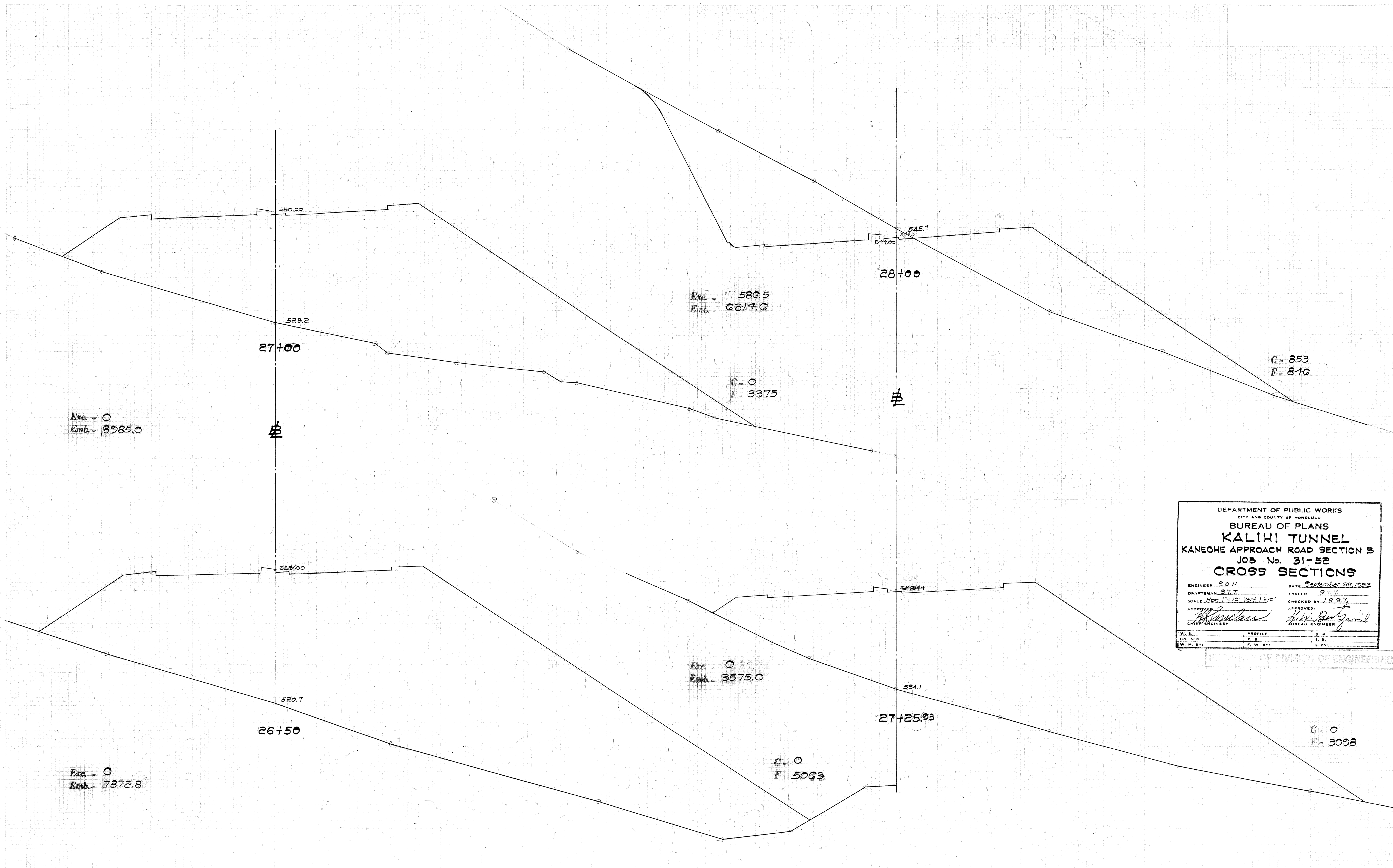
W. S.	PROFILE	C. S.
CH. SEC.	P. S.	S. S.
W. W. BY:	P. W. BY:	S. BY:

PROPERTY OF DIVISION OF ENGINEERING

FILE	POCKET	FOLDER	NO.
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Sheet No. 53 of 66 Sheets

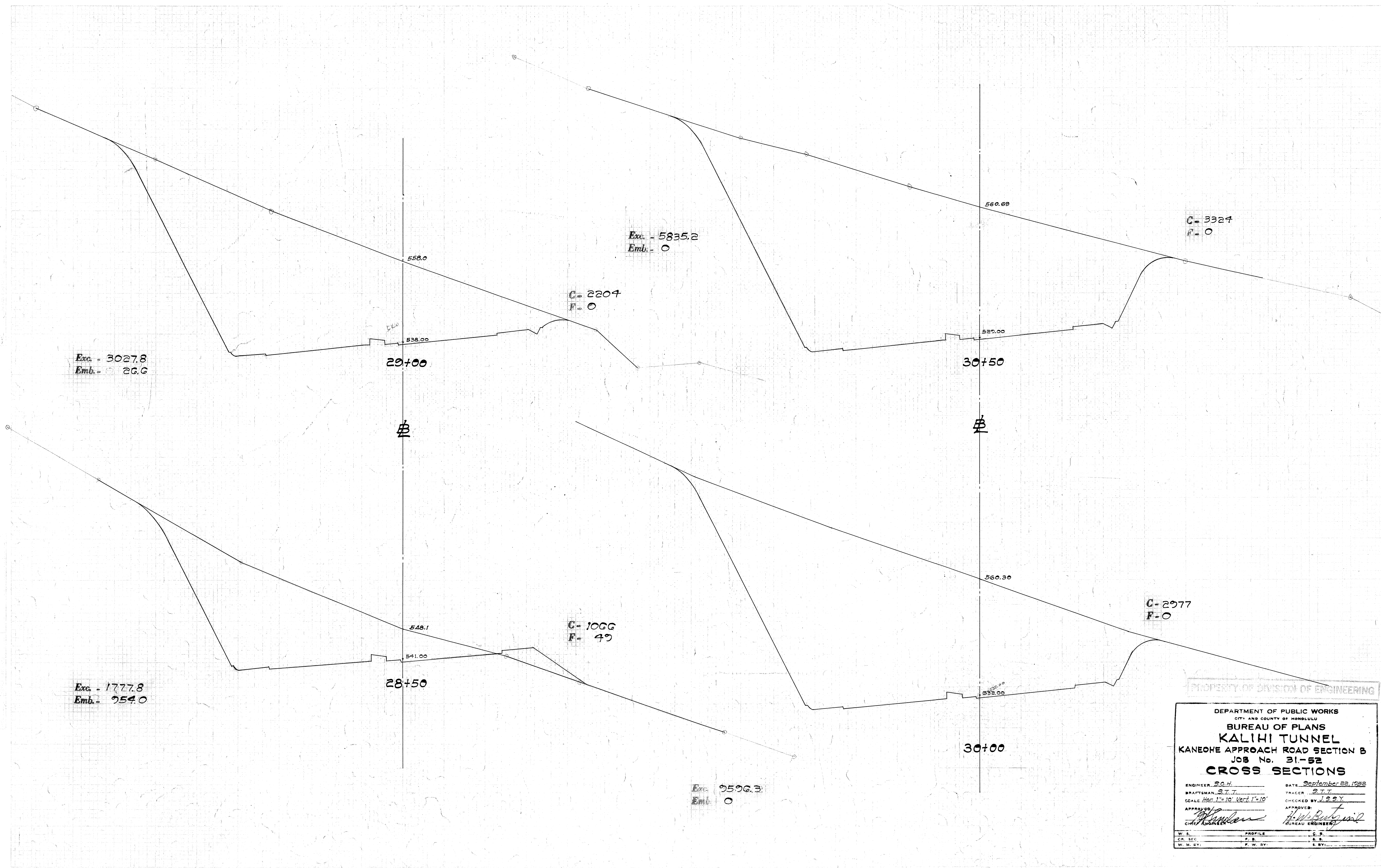




DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
Kaneohe Approach Road Section B
JOB No. 31-52
CROSS SECTIONS

ENGINEER R.O.H. DATE September 22, 1952
DRAFTSMAN S.T.T. TRACER S.T.T.
SCALE Hor. 1"=10' Vert. 1"=10' CHECKED BY J.S.S.Y.
APPROVED: [Signature] APPROVED: [Signature]
CHIEF ENGINEER BUREAU ENGINEER

W. S.	PROFILE	C. S.
CR. SEC.	F. S.	S. S.
W. W. SY.	F. W. SY.	S. SY.



PROPERTY OF DIVISION OF ENGINEERING

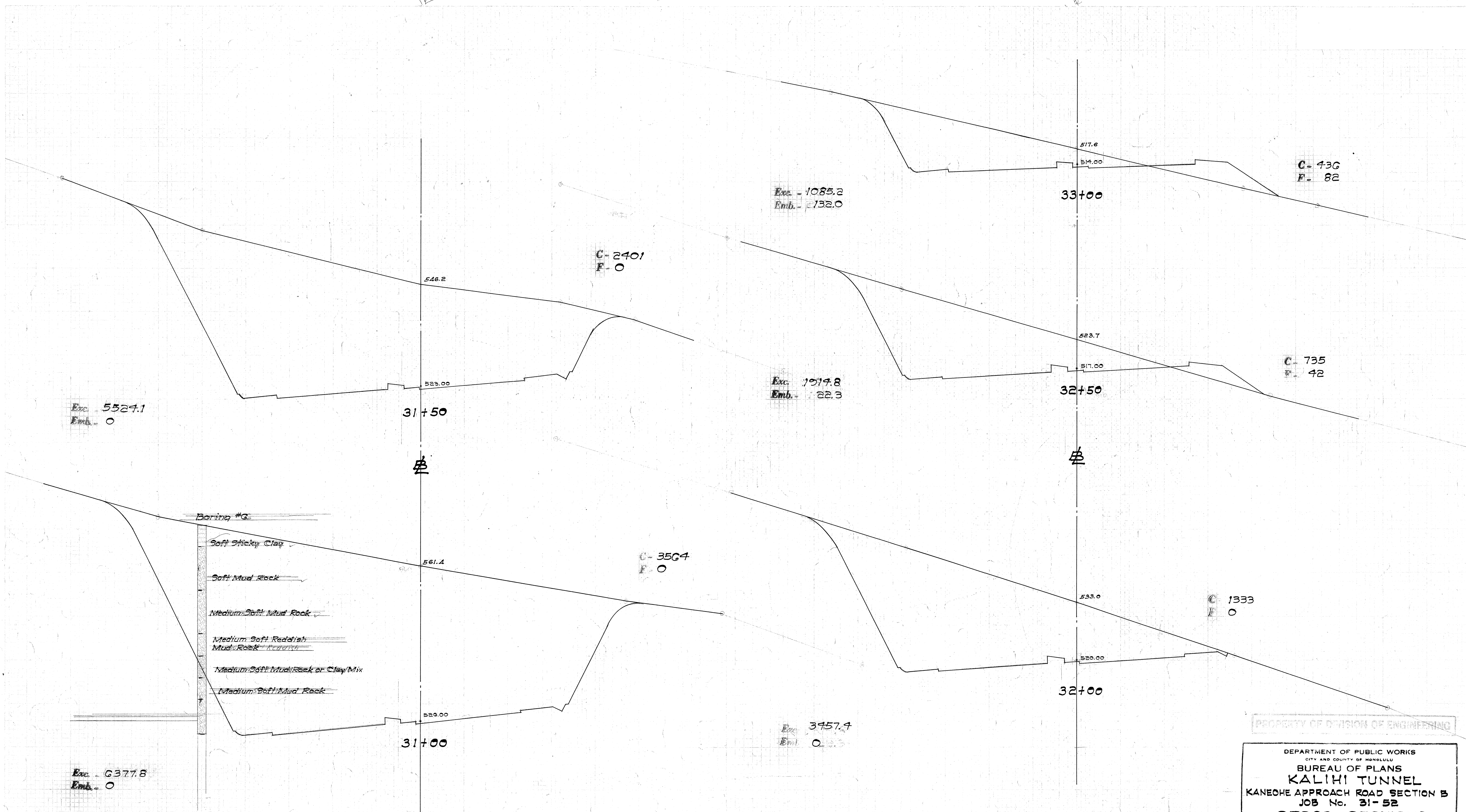
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
KANEHOE APPROACH ROAD SECTION B
JOB No. 31-52
CROSS SECTIONS

ENGINEER S.O.H. DATE September 22, 1922
DRAFTSMAN S.T.T. TRACER S.T.T.
SCALE Hor. 1"=10' Vert. 1"=10' CHECKED BY J.S.V.
APPROVED [Signature] APPROVED [Signature]
CHIEF ENGINEER BUREAU ENGINEER

W. S.	PROFILE	C. S.
C.R. SEC.	P. S.	E. S.
W. N. SY.	P. W. SY.	E. SY.

FILE	POCKET	FOLDER	NO.
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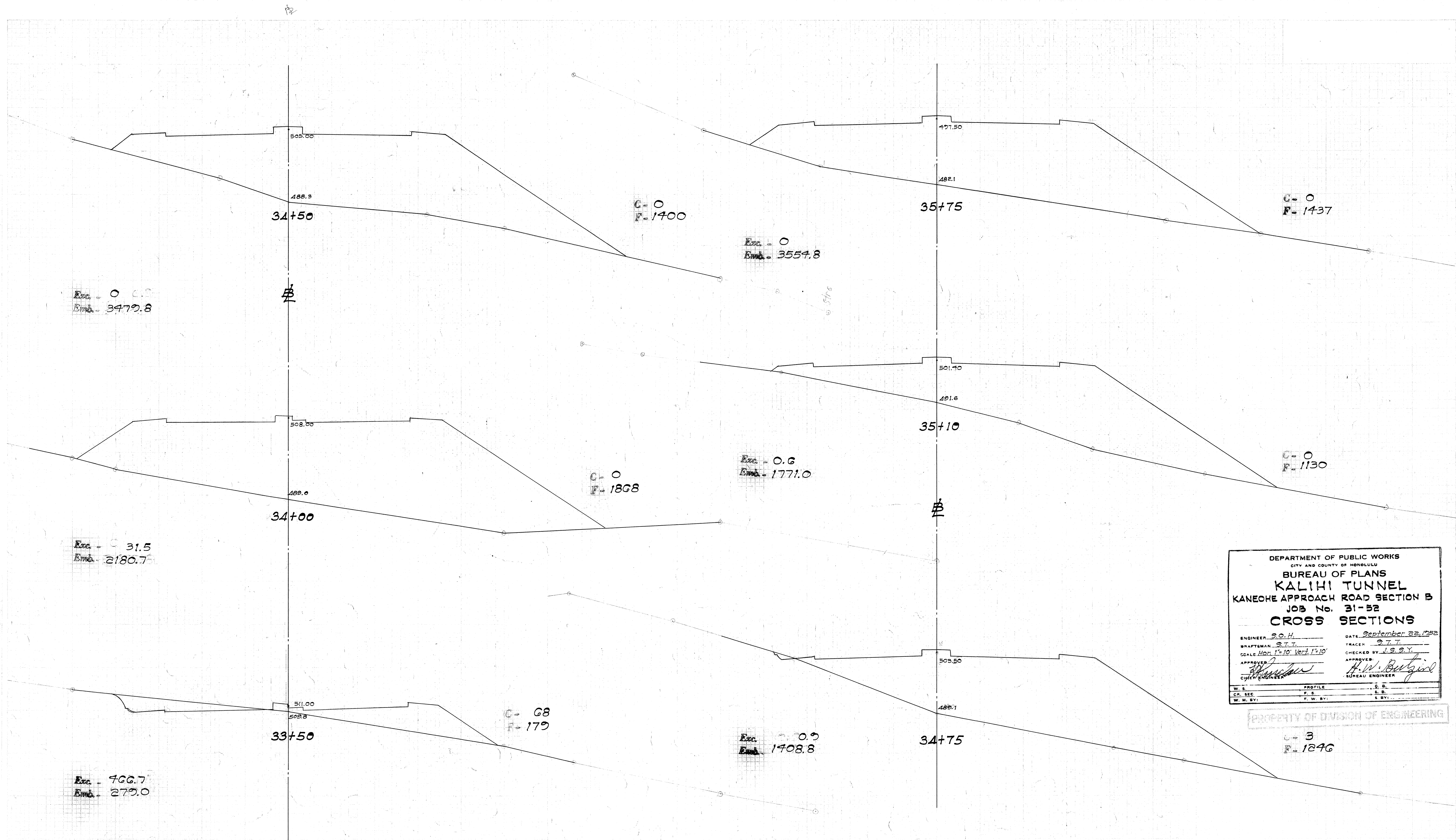
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PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANEHOE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER <u>S.O.H.</u>	DATE <u>September 22, 1932</u>		
DRAFTSMAN <u>S.T.T.</u>	TRACER <u>S.T.T.</u>		
SCALE <u>Hor. 1"=10'</u> <u>Vert. 1"=10'</u>	CHECKED BY <u>J.S.B.Y.</u>		
APPROVED: <u>[Signature]</u> CHIEF ENGINEER	APPROVED: <u>[Signature]</u> BUREAU ENGINEER		
W. S. _____	PROFILE	C. B. _____	
CR. SEC. _____	F. S. _____	S. B. _____	
W. M. BY: _____	F. W. BY: _____	S. BY: _____	

FILE	POCKET	FOLDER	No.
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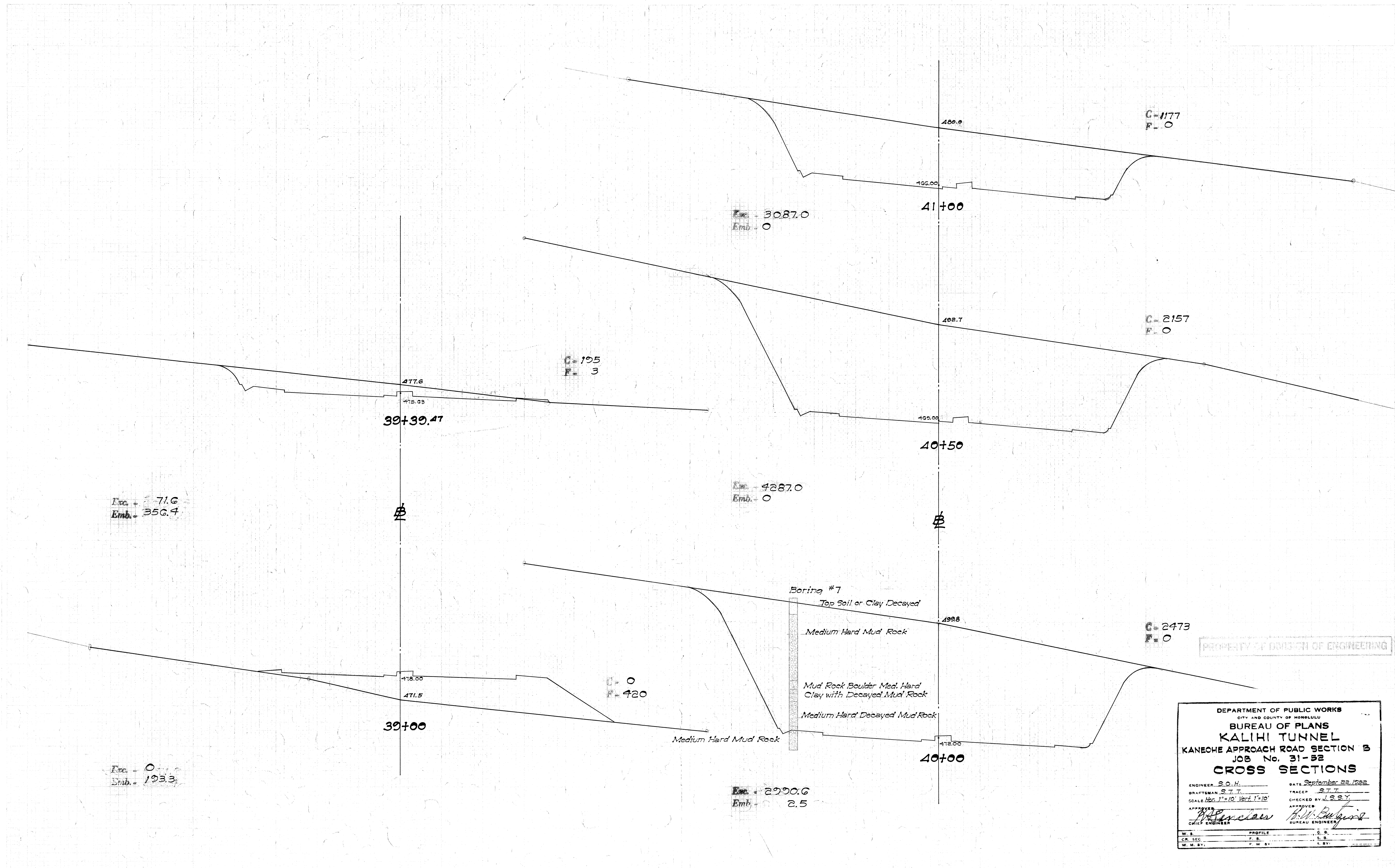
DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF HONOLULU
 BUREAU OF PLANS
KALIHI TUNNEL
 KANEOHE APPROACH ROAD SECTION B
 JOB No. 31-52
CROSS SECTIONS

ENGINEER: S.O.H. DATE: September 22, 1952
 DRAFTSMAN: S.T.T. TRACER: S.T.T.
 SCALE: Hor. 1"=10' Vert. 1"=10' CHECKED BY: J.S.Y.
 APPROVED: [Signature] APPROVED: [Signature]
 CHIEF ENGINEER BUREAU ENGINEER

W. S.	PROFILE	C. S.
CR. SEC.	F. S.	S. S.
W. M. BY:	F. W. BY:	S. BY:

PROPERTY OF DIVISION OF ENGINEERING

C- 3
 F. 1246



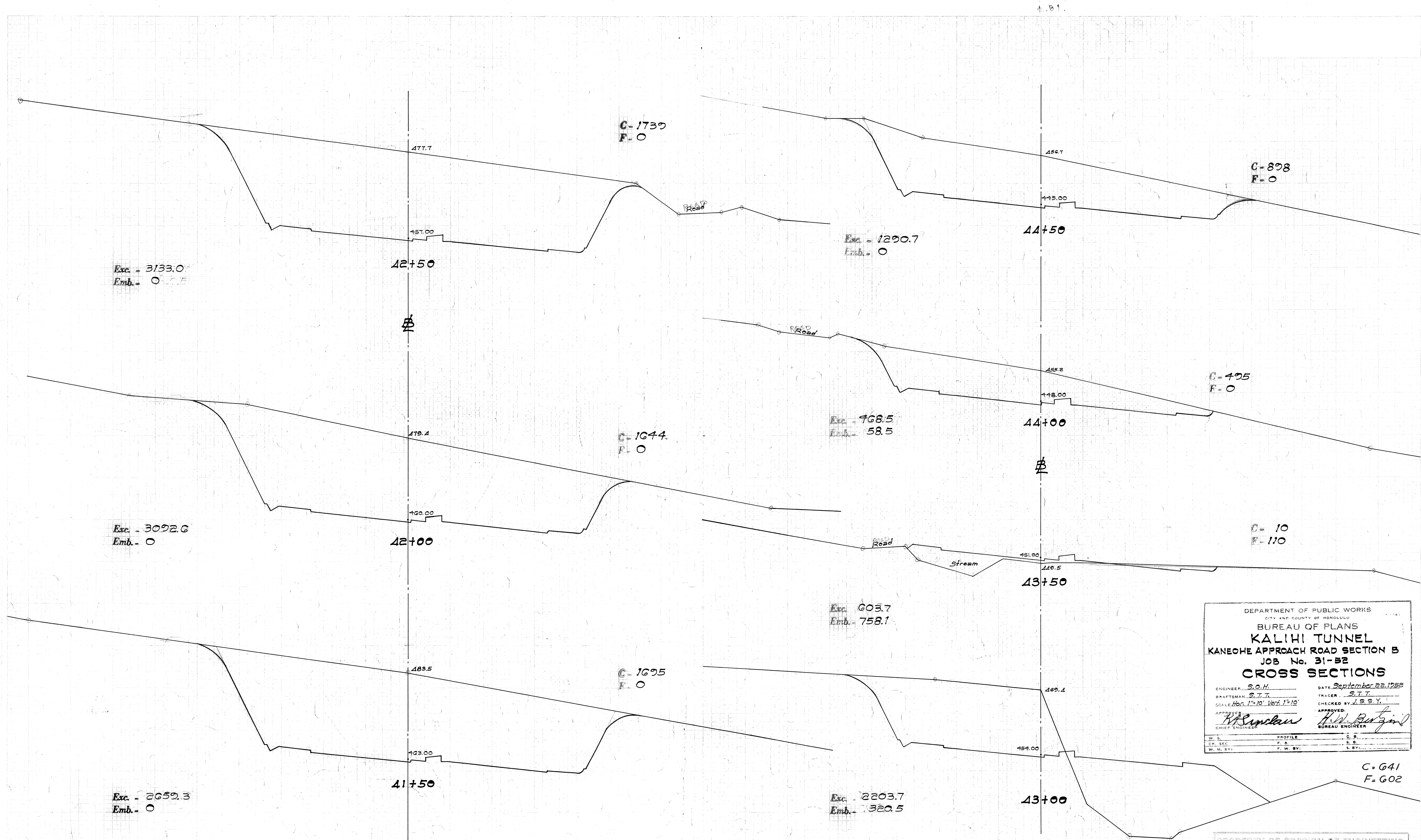
PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANECHIE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER S. O. H.	DATE September 22, 1932		
DRAFTSMAN S. T. T.	TRACER S. T. T.		
SCALE Hor. 1"=10' Vert. 1"=10'	CHECKED BY J. S. S. Y.		
APPROVED [Signature]	APPROVED [Signature]		
CHIEF ENGINEER	BUREAU ENGINEER		
W. E.	PROFILE	C. B.	
CR. SEC.	F. B.	S. B.	
W. M. BY.	F. W. BY.	S. BY.	

FILE	POCKET	FOLDER	NO.
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Sheet No. 61 of 66 Sheets

24

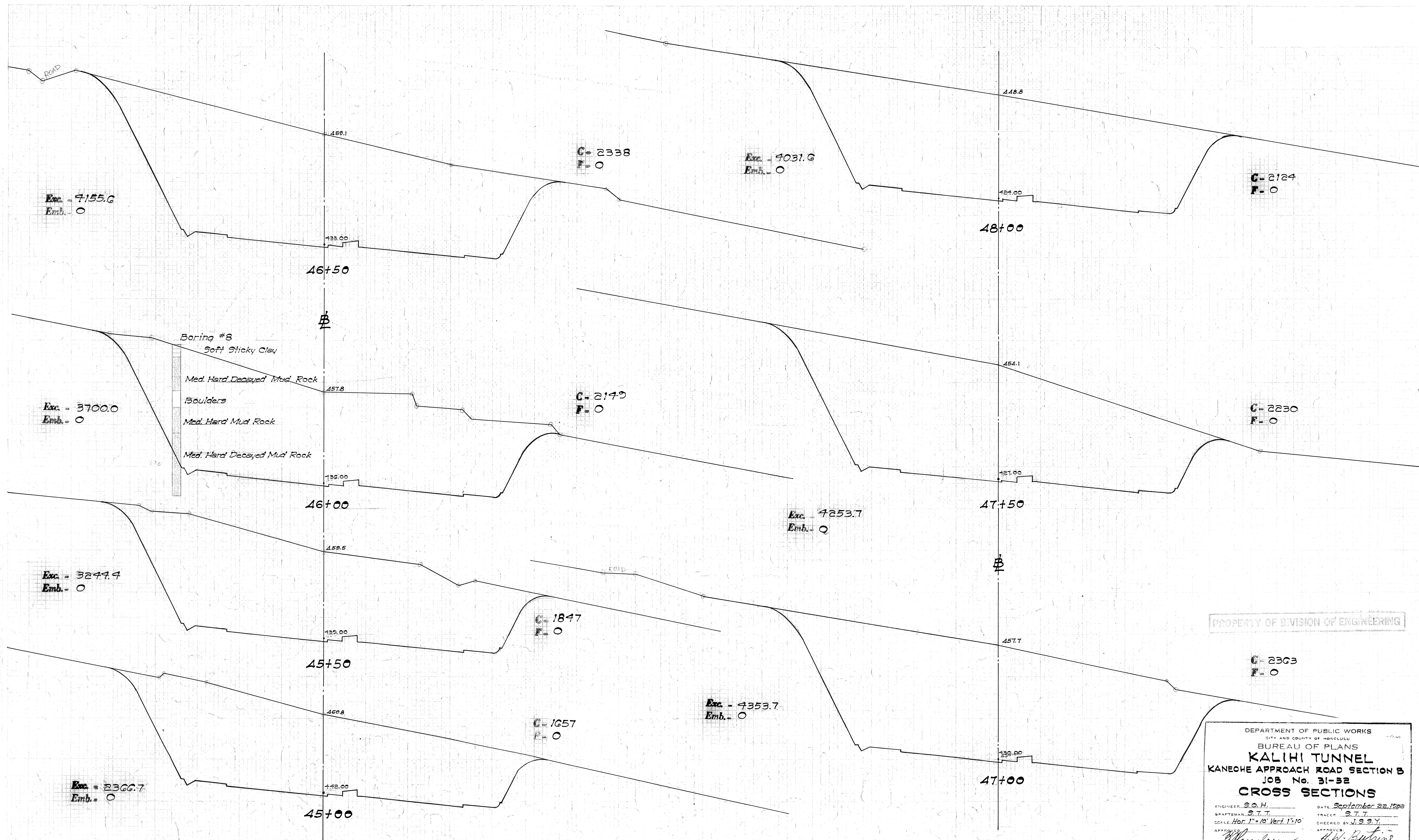


DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
Kaneohe Approach Road Section B
JOB No. 31-52
CROSS SECTIONS

ENGINEER: S.O.H. DATE: September 22, 1952
DRAFTSMAN: S.T.T. TRACER: S.T.T.
SCALE: Hor. 1"=10' Vert. 1"=10' CHECKED BY: J.S.S.Y.
APPROVED: [Signature] APPROVED: [Signature]
CHIEF ENGINEER BUREAU ENGINEER

W.S.	PROFILE	C.B.
CH. SEC.	F.S.	S.B.
W.M. BY:	F.W. BY:	S.B.Y.

FILE	POCKET	FOLDER	No.
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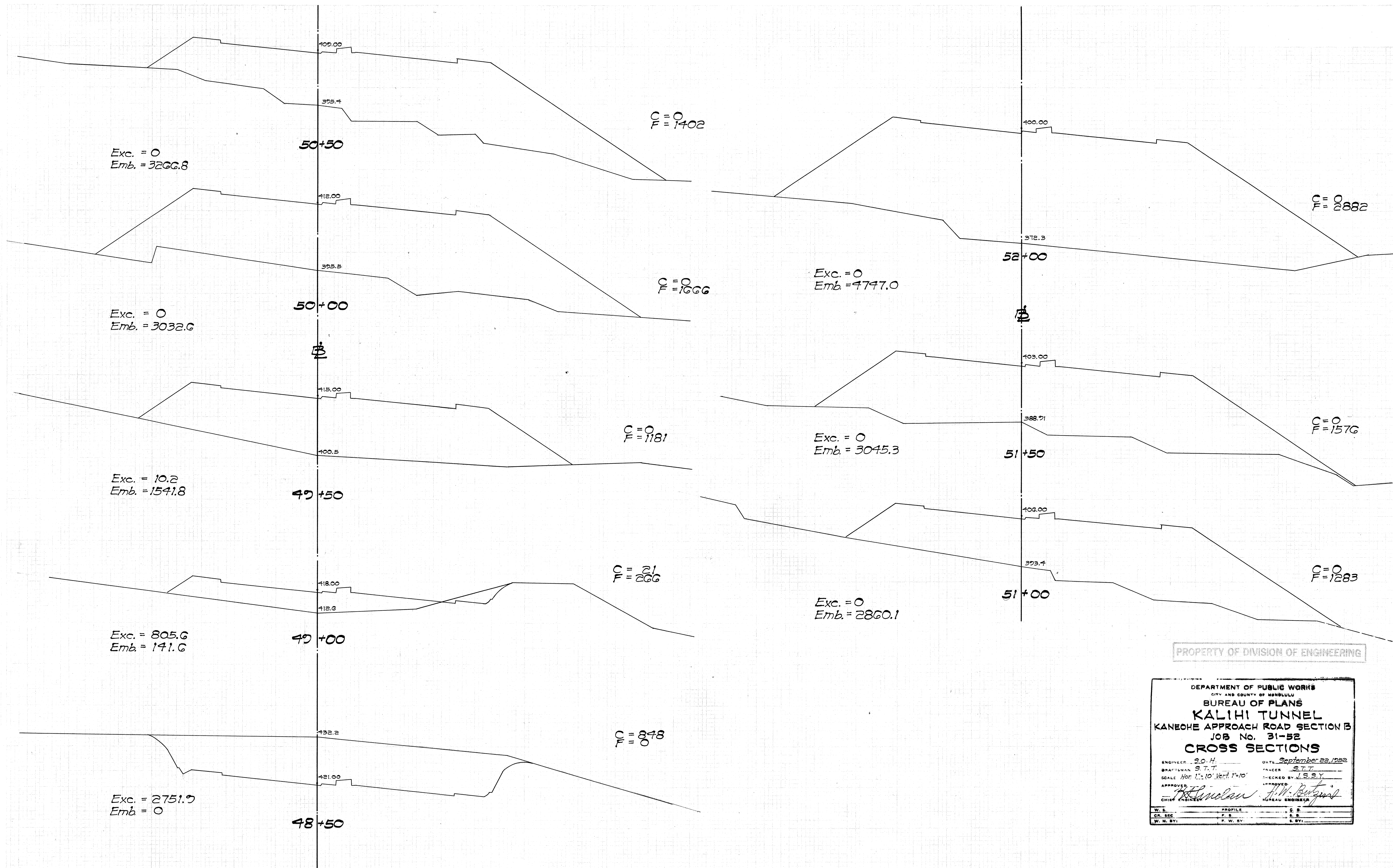


PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU BUREAU OF PLANS			
KALIHI TUNNEL			
KANEOHE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER, S.O.H.	DATE, September 22, 1922	TRACER, S.T.T.	CHECKED BY, J.S.S.Y.
DRAFTSMAN, S.T.T.	SCALE, Hor. 1"=10' Vert. 1"=10'	APPROVED, [Signature]	BUREAU ENGINEER, [Signature]
W.S.	KNOWLEDGE	C.D.	
C.R. SEC.	F.S.	S.S.	
W.M. EV.	F.W. EV.	S.EV.	

FILE	POCKET	FOLDER	NO.
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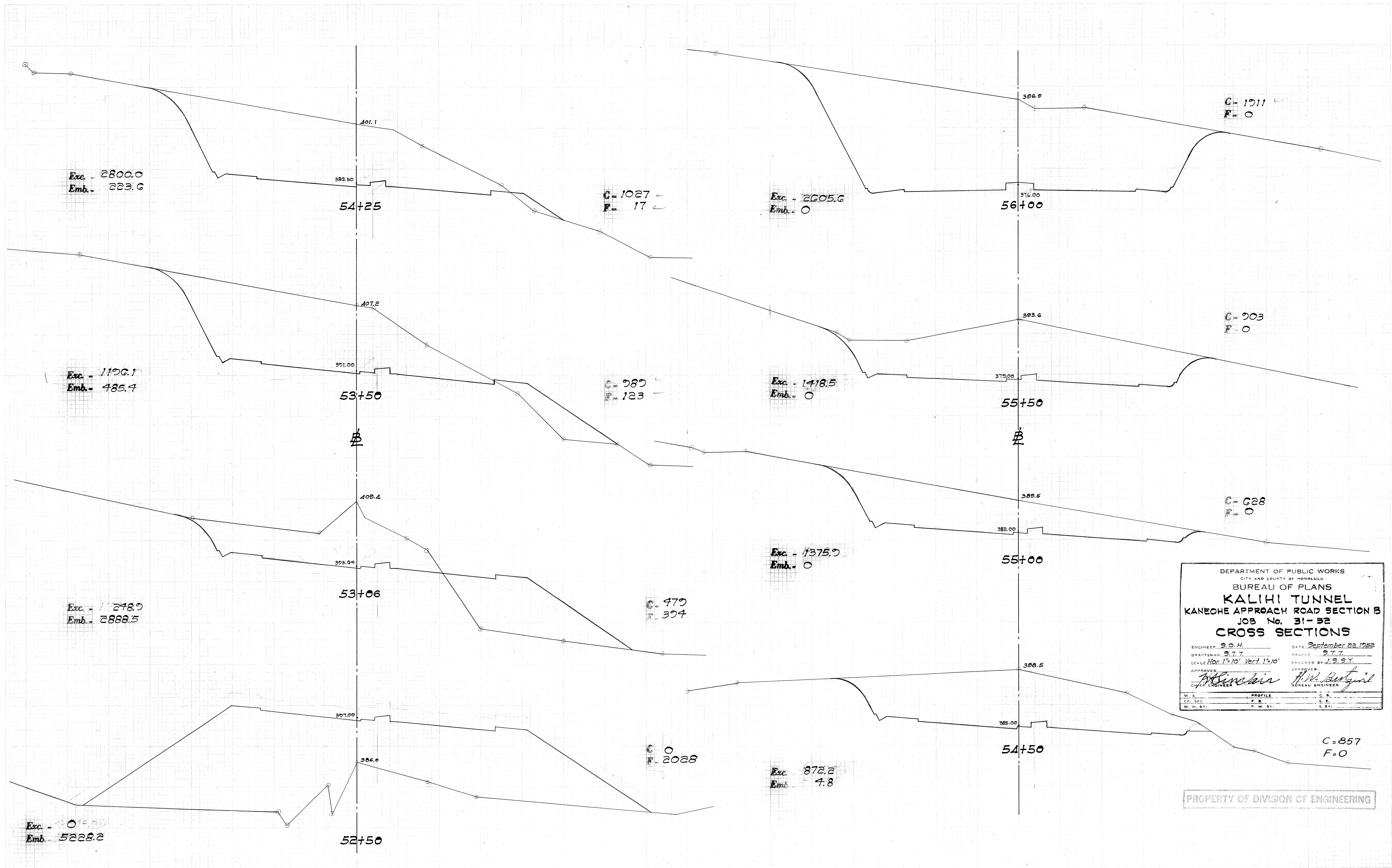
Sheet No. 63 of 66 Sheets



PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS			
CITY AND COUNTY OF HONOLULU			
BUREAU OF PLANS			
KALIHI TUNNEL			
KANEHOE APPROACH ROAD SECTION B			
JOB No. 31-52			
CROSS SECTIONS			
ENGINEER	S. O. H.	DATE	September 22, 1922
DRAWSMAN	S. T. T.	TRACER	S. T. T.
SCALE	Hor. 1"=10' Vert. 1"=10'	CHECKED BY	J. B. S. Y.
APPROVED			
CHIEF ENGINEER	BUREAU ENGINEER		
W. E.	PROFILE	E. S.	
CR. SEC.	P. S.	E. S.	
W. M. BY:	P. W. BY:	E. S.	

FILE	POCKET	FOLDER	NO.
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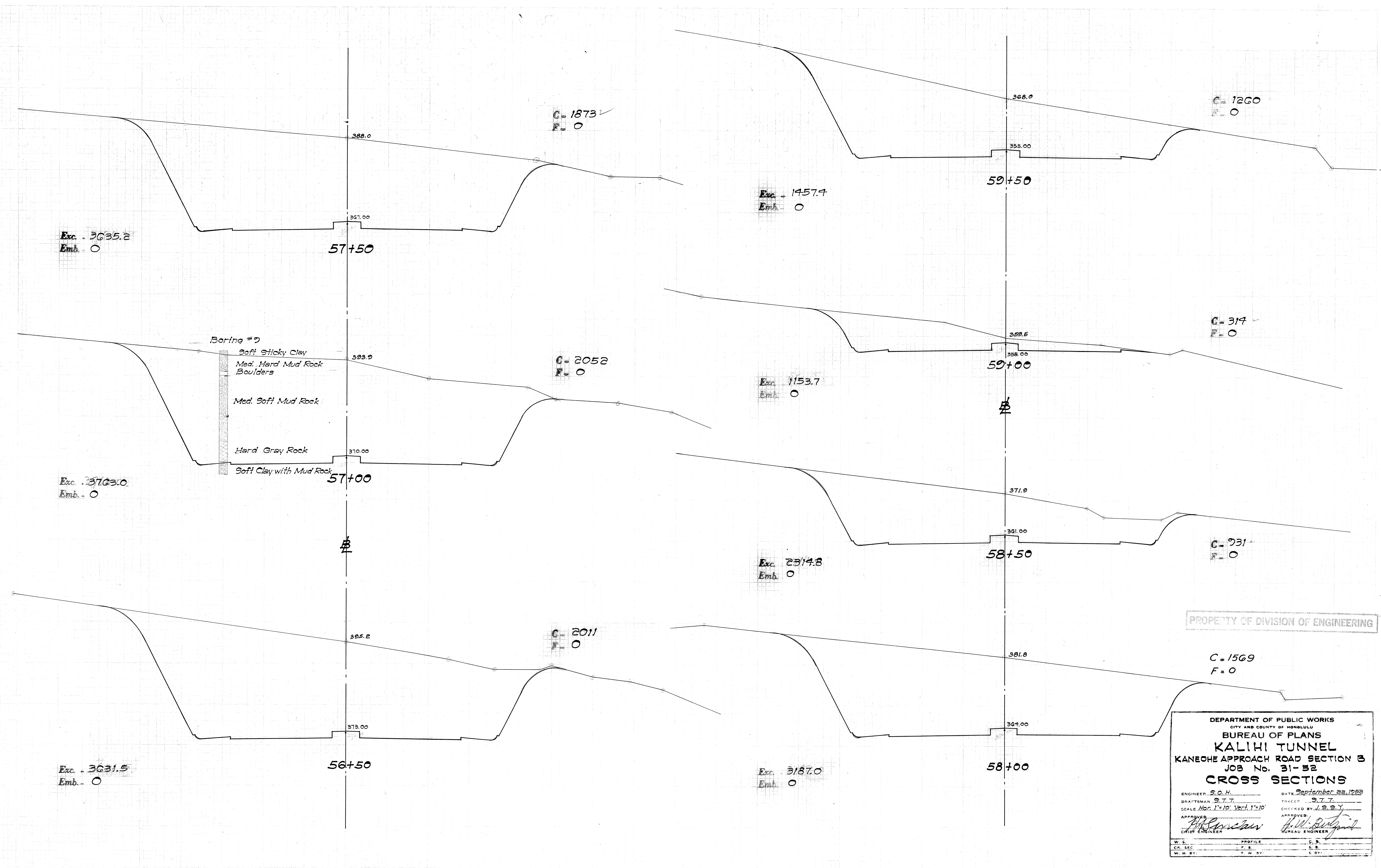


DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF HONOLULU
 BUREAU OF PLANS
KALIHI TUNNEL
 KANEOHE APPROACH ROAD SECTION B
 JOB No. 31-52
CROSS SECTIONS

ENGINEER: S.O.H. DATE: September 28, 1958
 DRAFTSMAN: S.T.T. TRACED: S.T.T.
 SCALE: Hor. 1"=10' Vert. 1"=10' CHECKED BY: J.S.S.Y.
 APPROVED: *[Signature]* APPROVED: *[Signature]*
 CHIEF ENGINEER BUREAU ENGINEER

W. S.	PROFILE	C. S.
CR. SEC.	F. B.	S. S.
W. M. BY:	F. W. BY:	S. BY:

PROPERTY OF DIVISION OF ENGINEERING



PROPERTY OF DIVISION OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU BUREAU OF PLANS KALIHI TUNNEL KANEHOE APPROACH ROAD SECTION B JOB No. 31-52 CROSS SECTIONS			
ENGINEER <u>S.O.H.</u>	DATE <u>September 22, 1952</u>	TRACED BY <u>S.T.T.</u>	
DRAFTSMAN <u>S.T.T.</u>	SCALE <u>Hor. 1"=10' Vert. 1"=10'</u>	CHECKED BY <u>J.S.S.Y.</u>	
APPROVED <u>[Signature]</u> CHIEF ENGINEER	APPROVED <u>[Signature]</u> BUREAU ENGINEER		
W. S.	PROFILE	C. S.	
CR. SEC.	F. S.	S. S.	
W. M. BY:	F. W. BY:	S. BY:	

FILE	POCKET	FOLDER	NO.
7	2	2	66