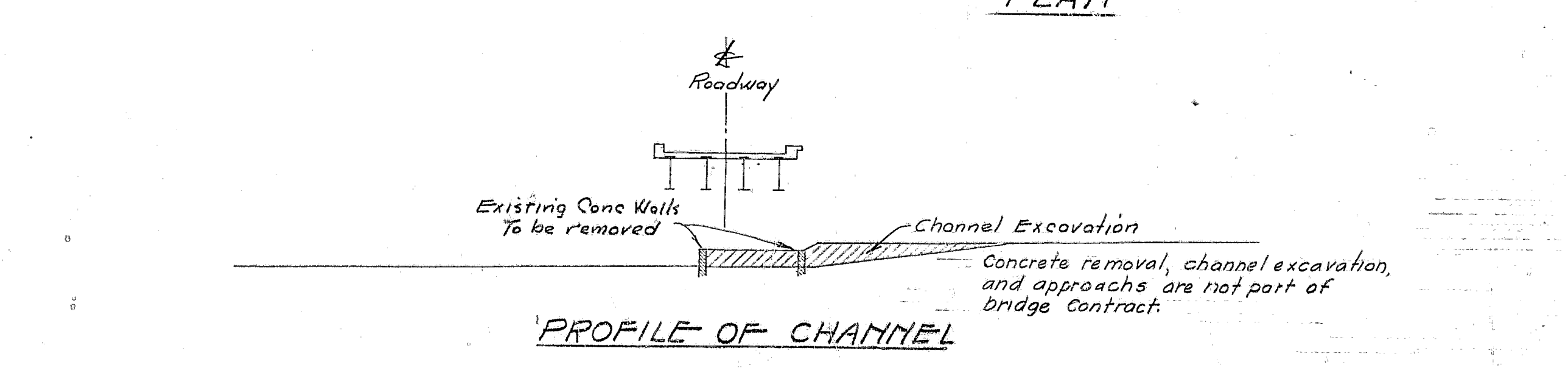
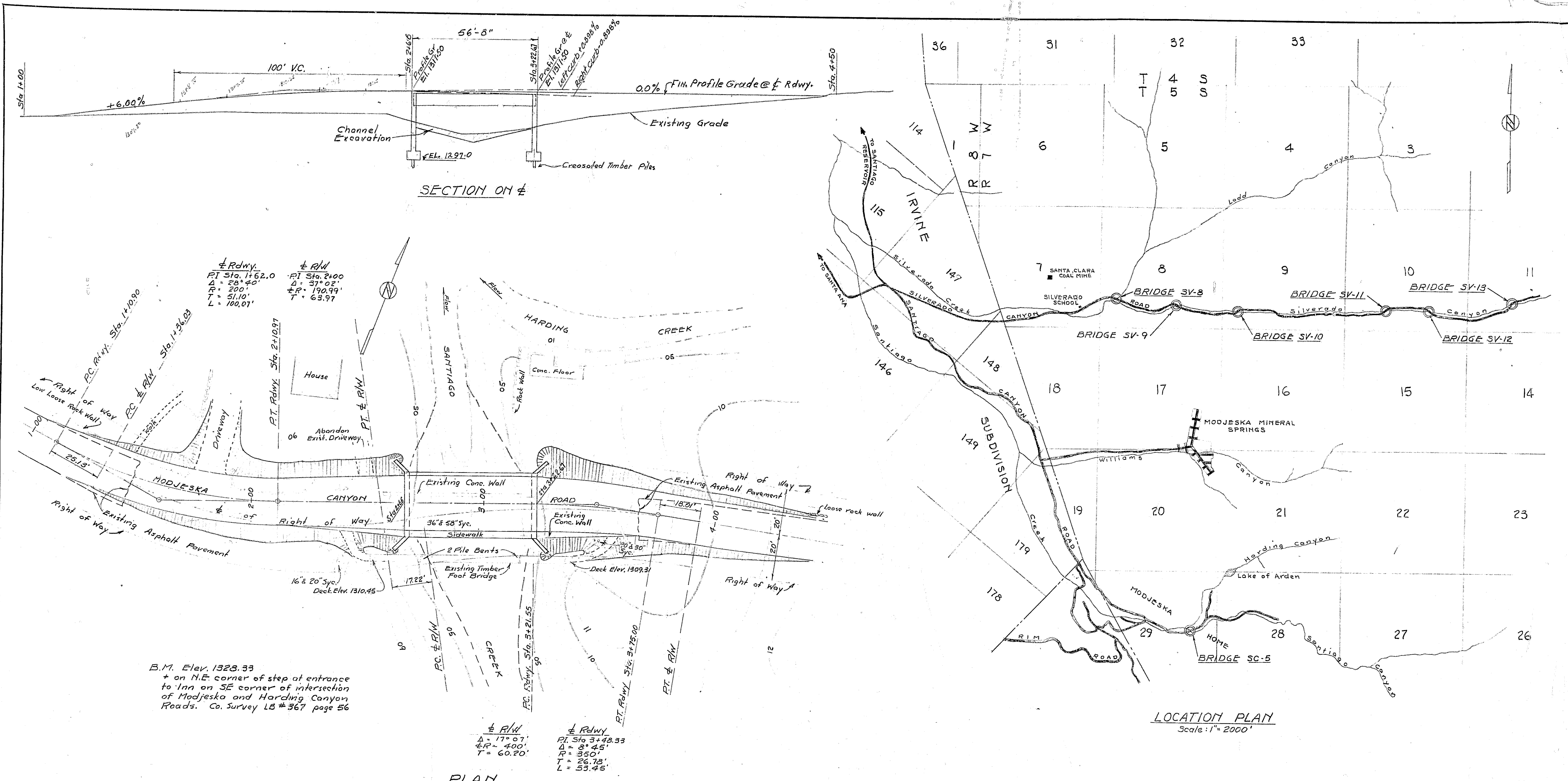


13 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51



BRIDGE SC-5
Scale - Horiz: 1"=20'-0"
Vert: 1"=10'-0"

Bridge #30-5
Structural Steel Details
Across Santiago Creek
Sheet 2 of 13
Rev. 11-5-51 Scale 1"=20' H
1"=10' V
Vellum-Pencil Sketch

MICROFILMED
JUL 6 1964

INDEX OF DRAWINGS

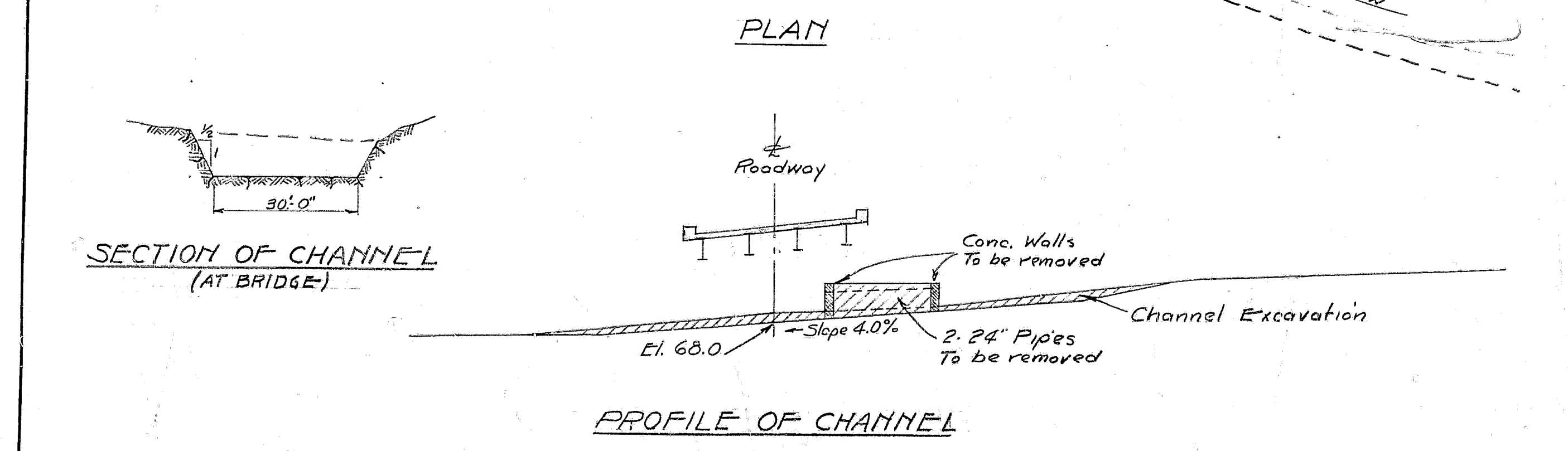
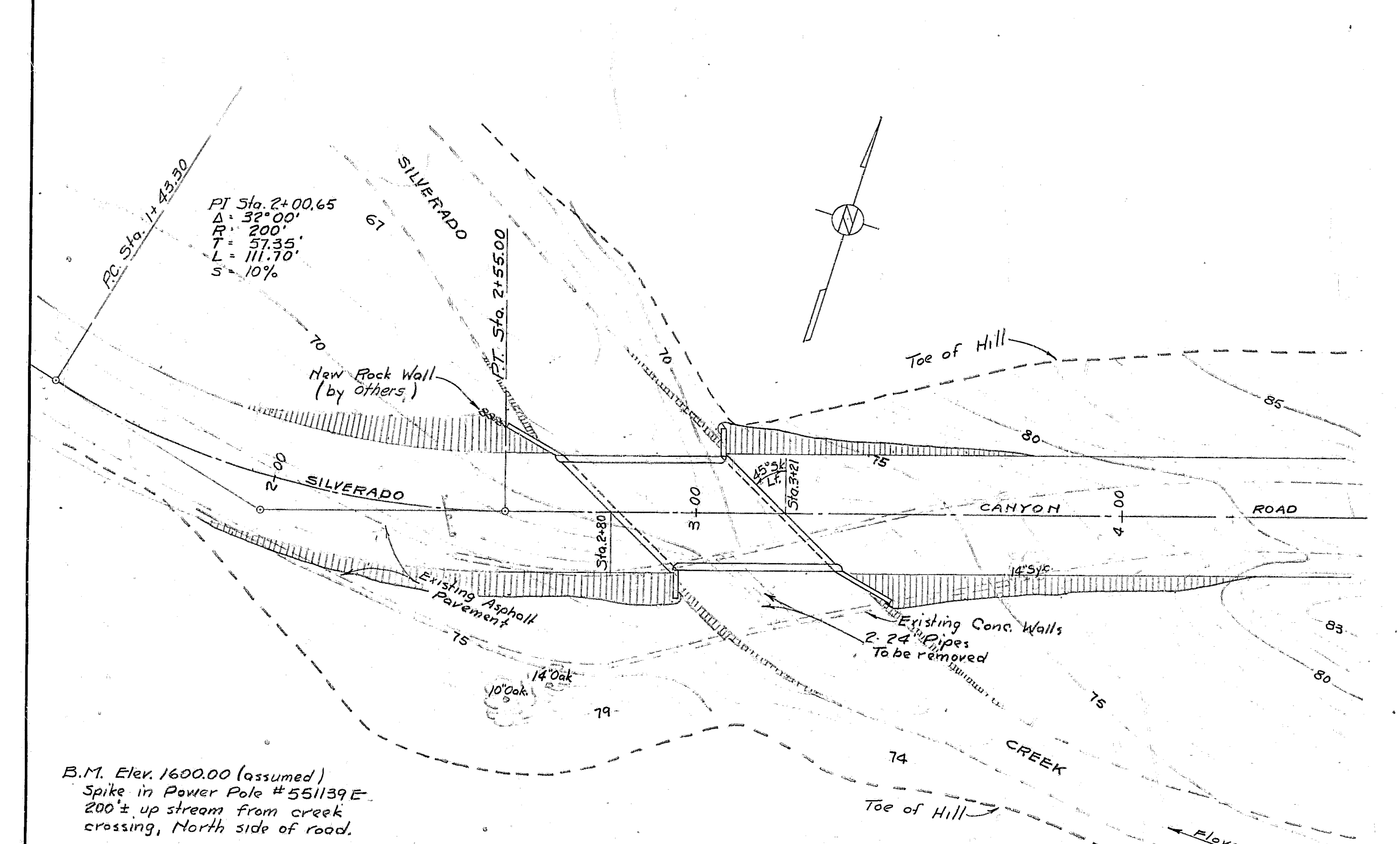
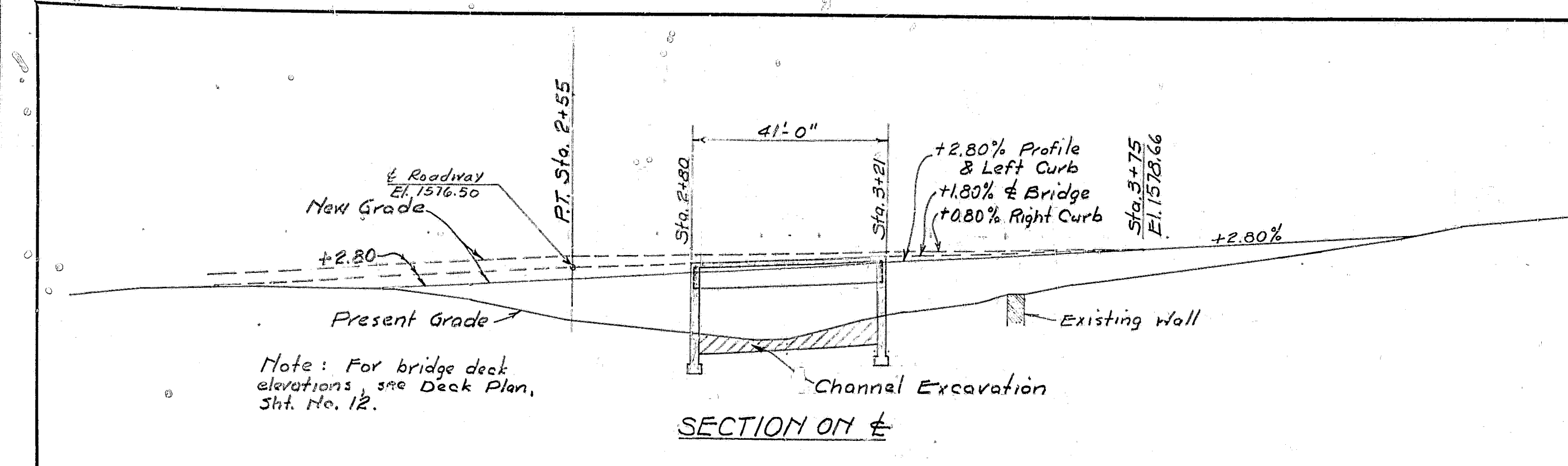
DRAWING No.	TITLE
1	General Plan, Santiago Creek (SC 5)
2	General Plan, Ladd Creek (SV 8) & Silverado Creek (SV 9)
3	General Plan, Silverado Creek (SV 10) & (SV 11)
4	General Plan, Silverado Creek (SV 12) & (SV 13)
5	Plans & Details, Santiago Creek (SC 5)
6	Plans & Details, Silverado Creek (SV 9)
7	Abutment Details, Silverado Creek (SV 11) & (SV 13)
8	Abutment Details, Silverado Creek (SV 10) & (SV 12)
9	Details of Abutment No. 1, Ladd Creek (SV 8)
10	Details of Abutment No. 2, Ladd Creek (SV 8)
11	Deck Plans & Details, Ladd Creek (SV 8) & Silverado Creek (SV 10)
12	Deck Plans & Details, Silverado Creek (SV 11), (SV 12), (SV 13)

Note: For general notes - see dwg. no. 3

APPROVED A.A. Beard
A.A. BEARD
SUPERINTENDENT OF HIGHWAYS

DATE 8-9-46
by H. J. Jorgensen
asst. Sup.

REV. NO.	DATE	REVISION	BY	APPR'D
1				
ORANGE COUNTY, CALIFORNIA				
BRIDGES ACROSS SILVERADO, LADD, & SANTIAGO CREEKS				
GENERAL PLAN				
SANTIAGO CREEK (SC 5)				
DONALD R. WARREN CO. ENGINEERS				
LOS ANGELES		SAN FRANCISCO		
DESIGN <u>FJS</u>	CHECKED <u>FB</u>	DATE <u>7/2/46</u>	JOB NO. <u>LA 46-17</u>	
DRAWING NO.				

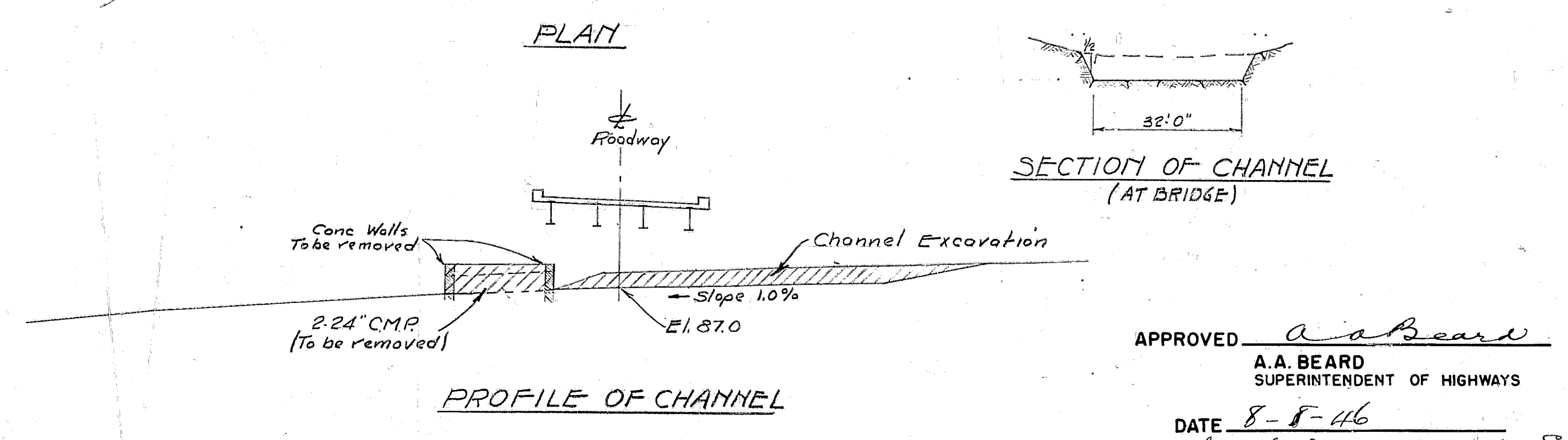
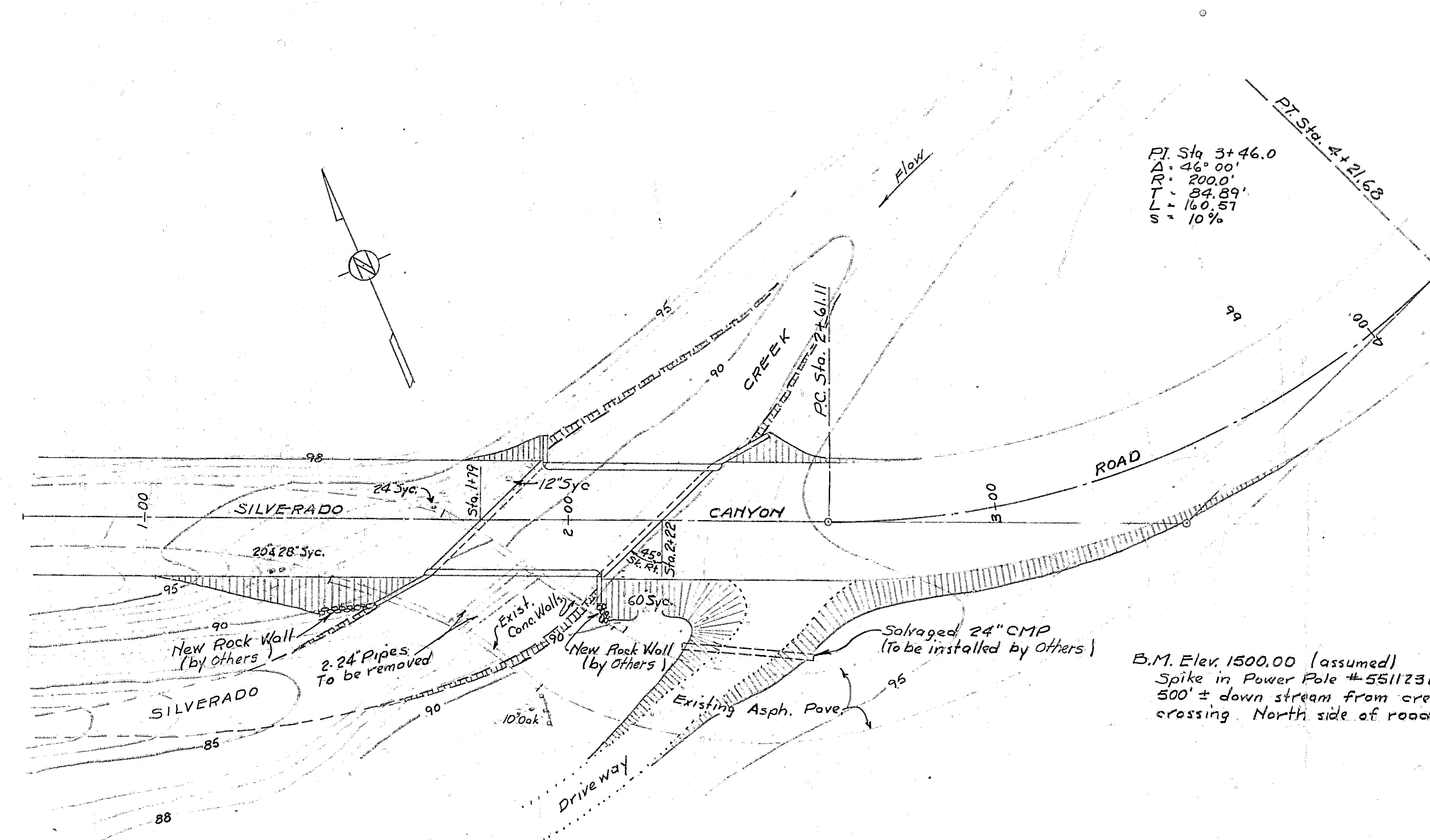
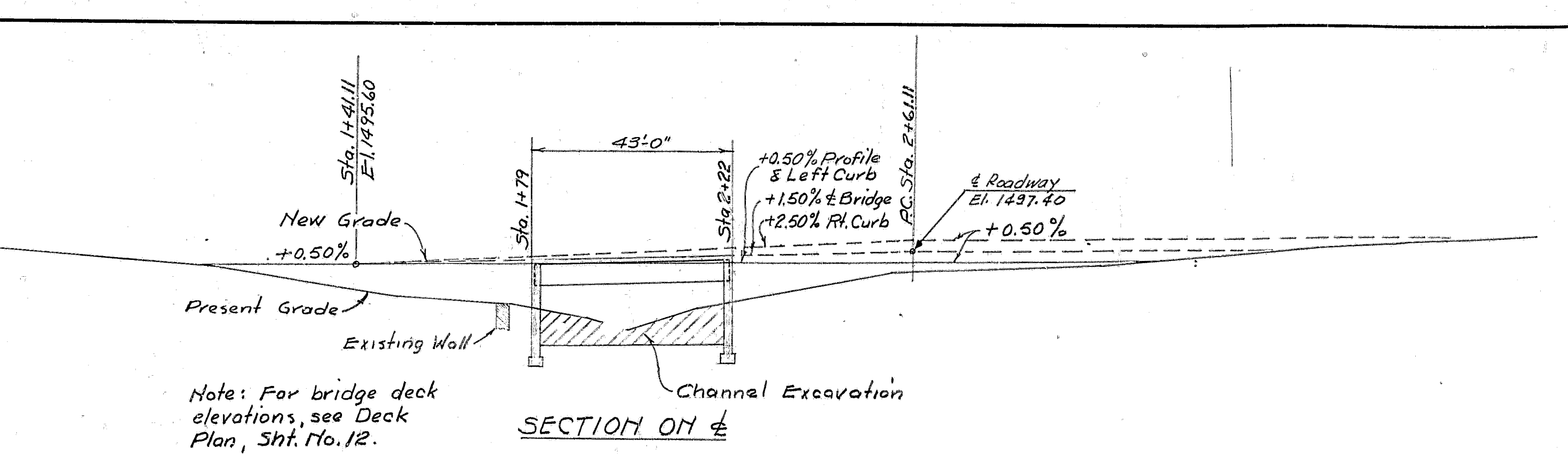


BRIDGE SV-13
Scale: Horiz. 1"=20'0"
Vert. 1"=10'0"

Bridge #SV 12 & 13
General Plan
Silverado Creek
Sheet 5 of 13
Rev. 2/25/11 Scale 1"=20' H
1"=10' V
Vellum-Pencil Sketch

NOTE:
Road approaches, channel excavation
and removal of pipe culverts not part of
bridge contract.

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JUL 6 1960



BRIDGE SV-12
Scale: Horiz. 1"=20'0"
Vert. 1"=10'0"

ORANGE COUNTY, CALIFORNIA
BRIDGES ACROSS SILVERADO, LADD,
& SANTIAGO CREEKS
GENERAL PLAN
SILVERADO CREEK (SV 12) & (SV 13)

APPROVED *A.A. Beard*
A.A. BEARD
SUPERINTENDENT OF HIGHWAYS

DATE 8-8-46
By *H. Sprengle* Asst. Engr.

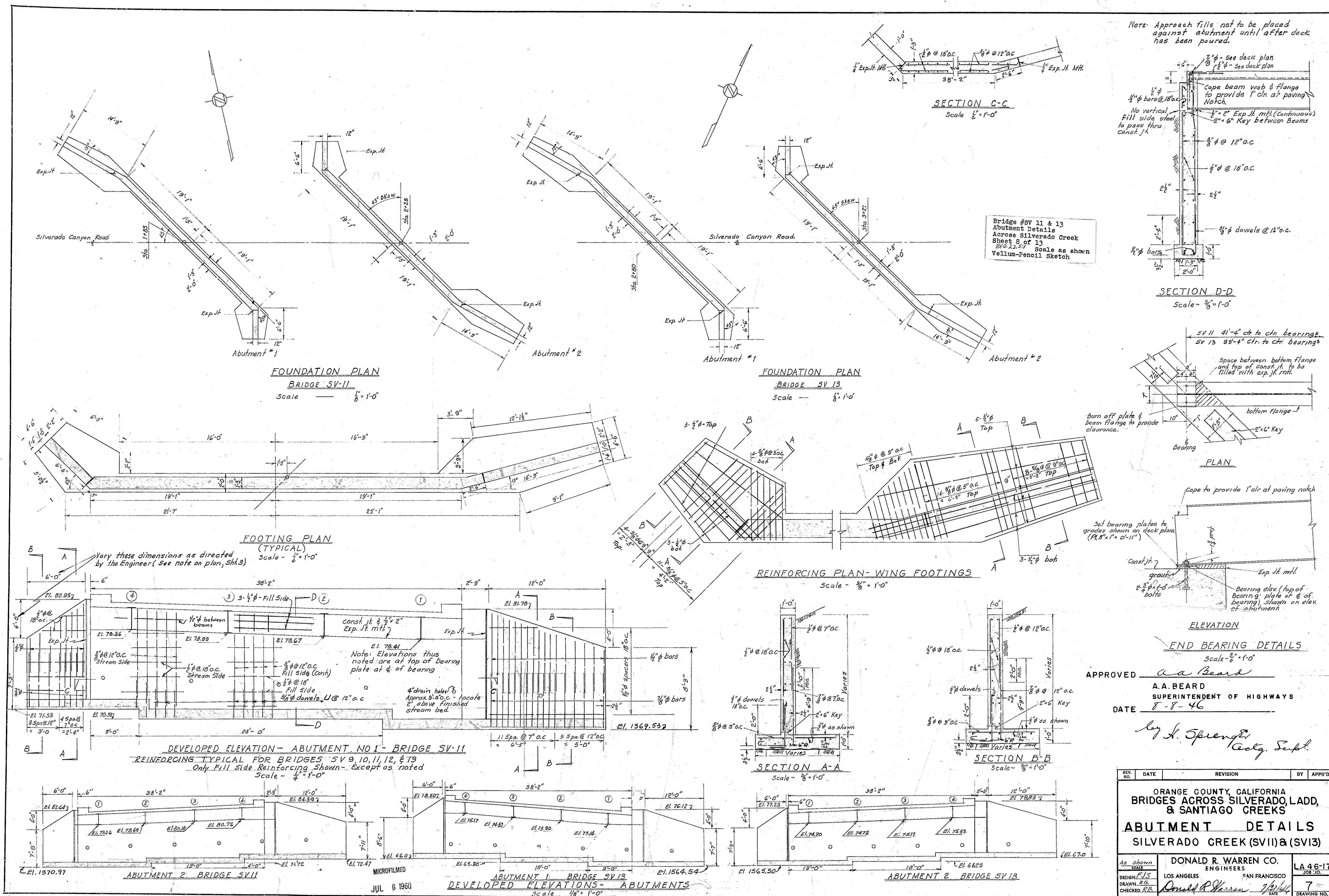
REV. NO.	DATE	REVISION	BY	APPR'D
1	8-8-46	Initial Design	H. Sprengle	A.A. Beard

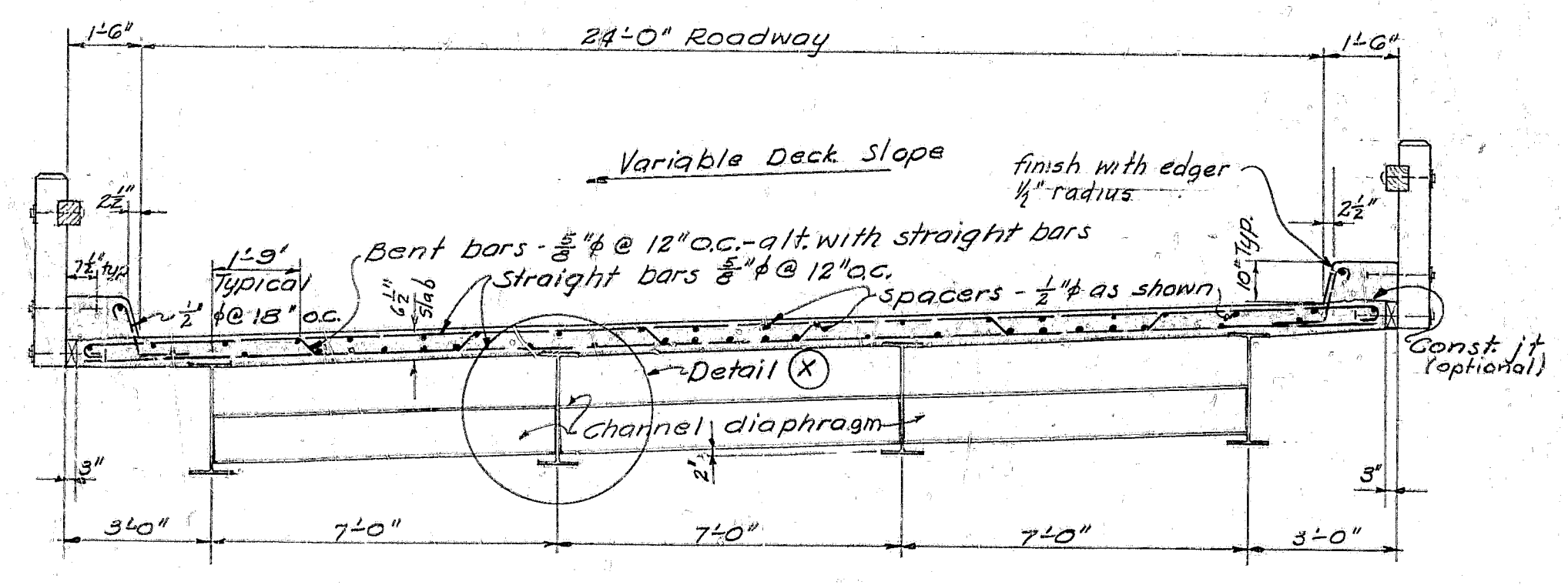
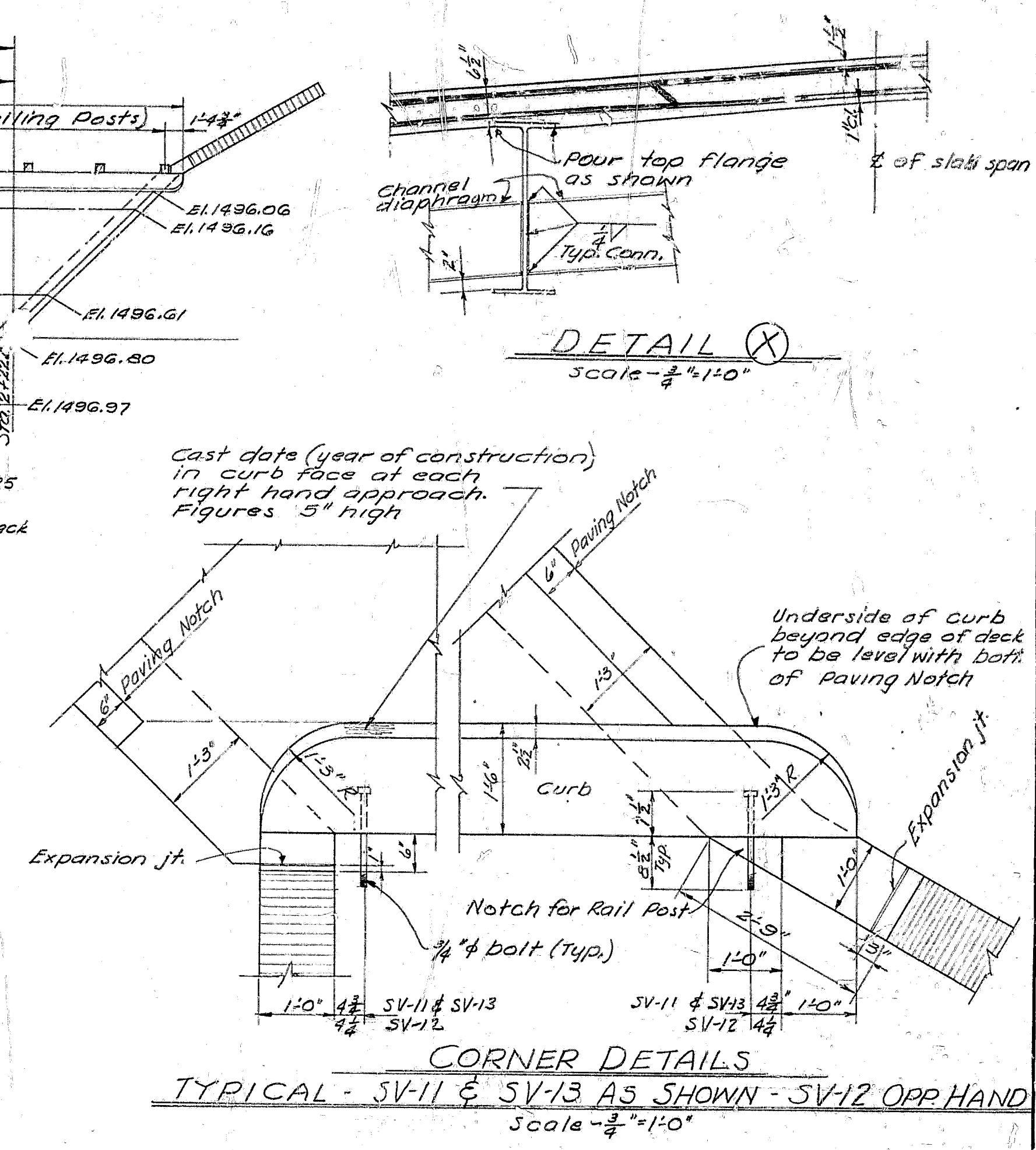
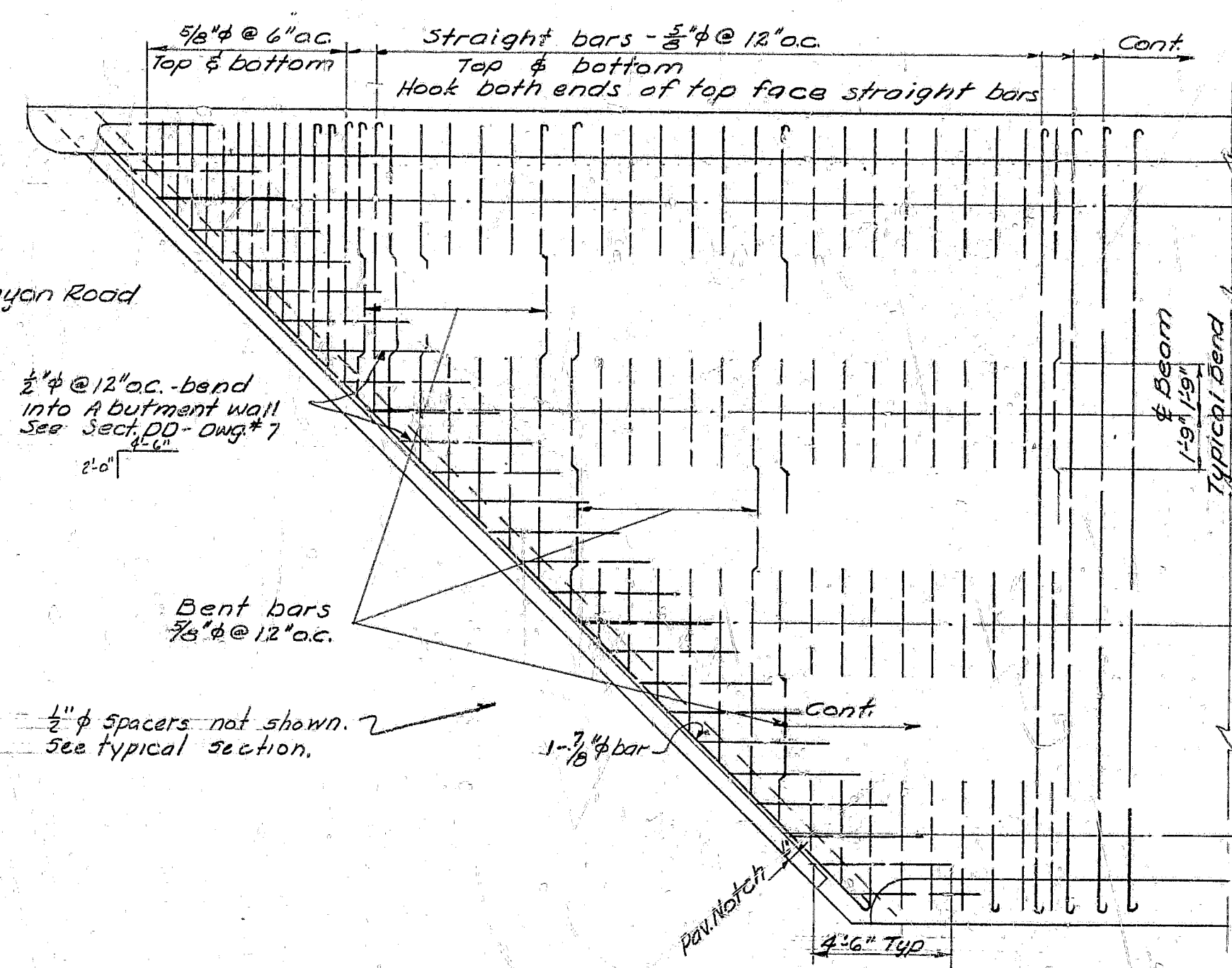
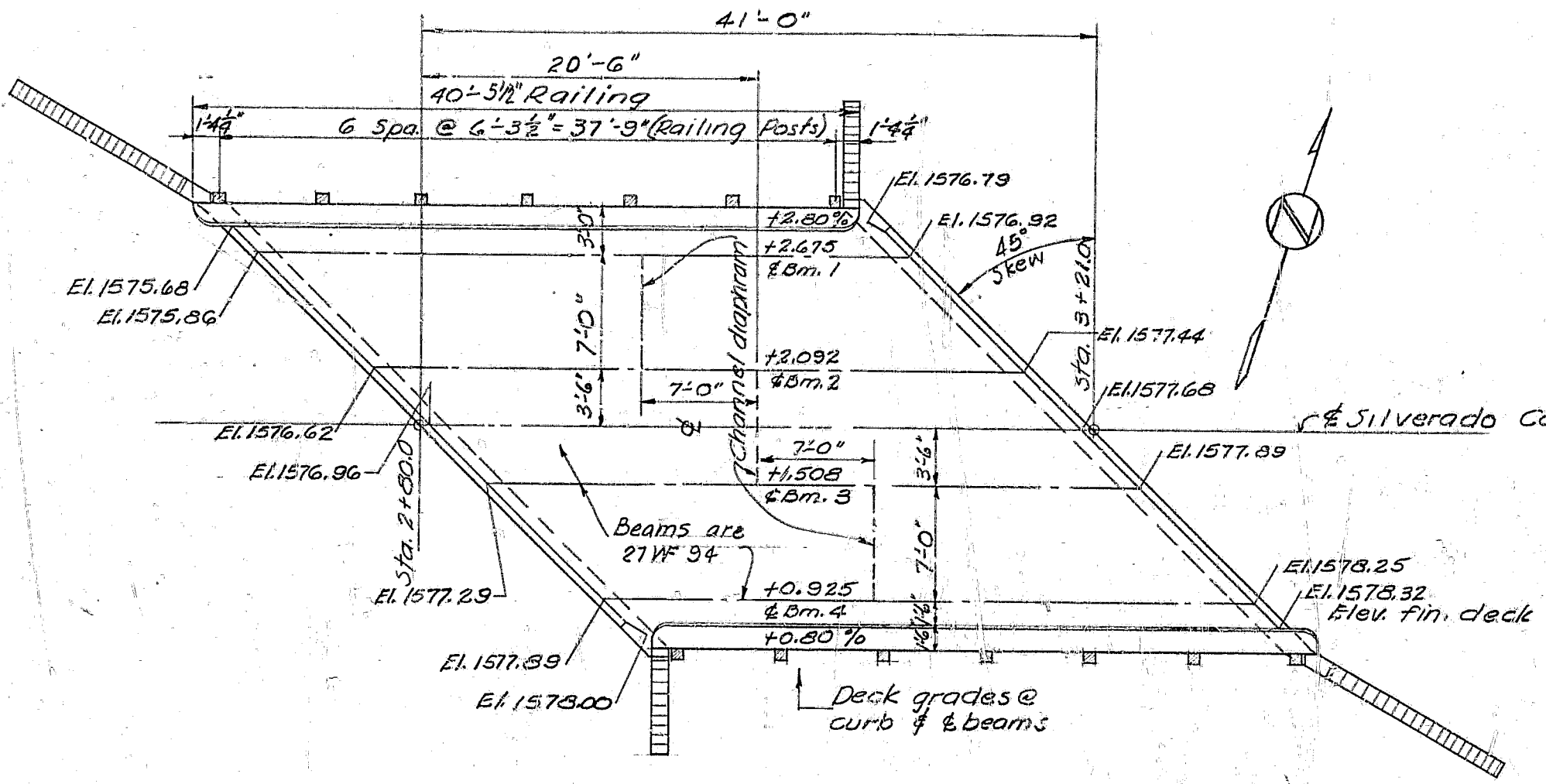
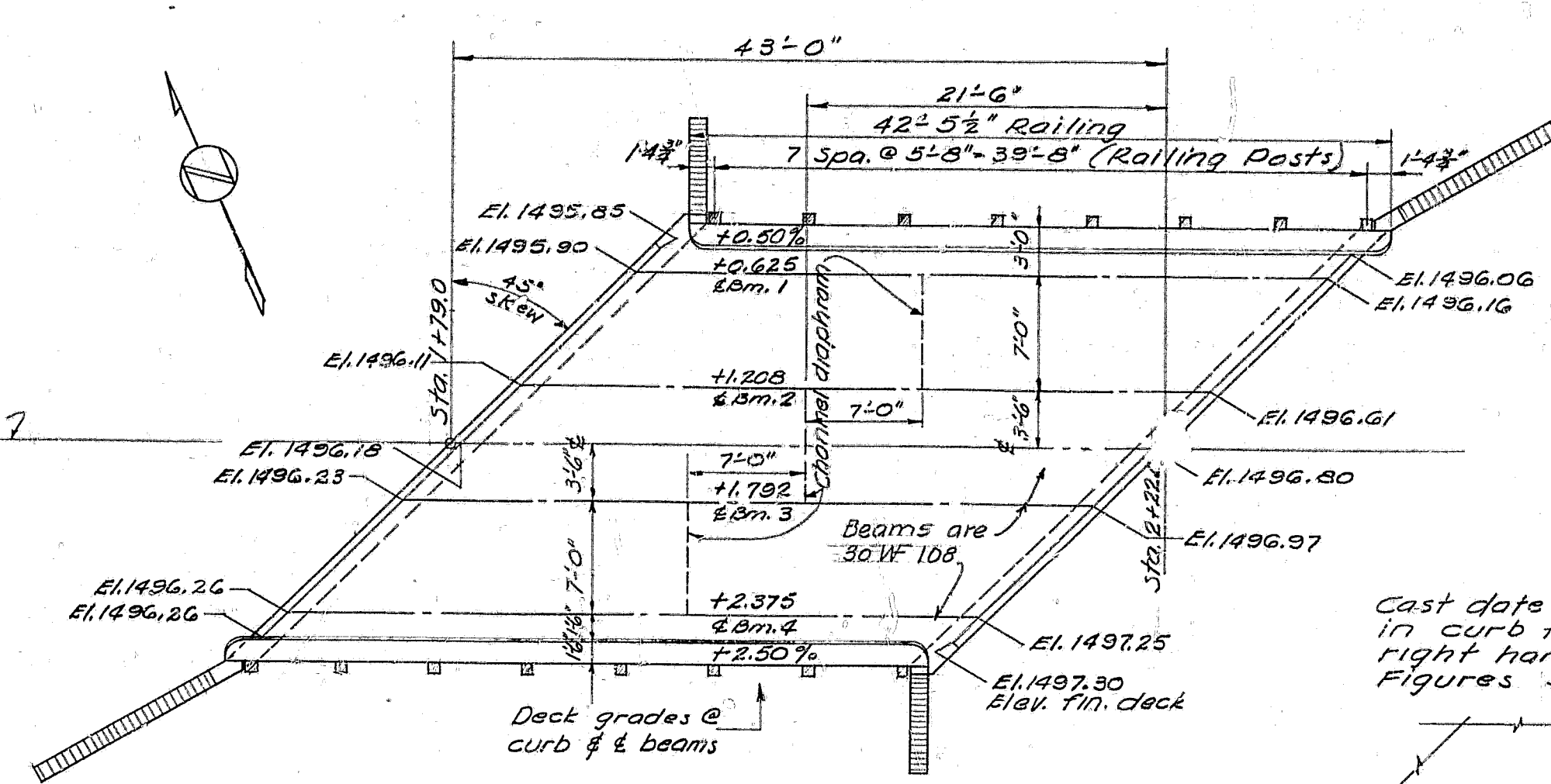
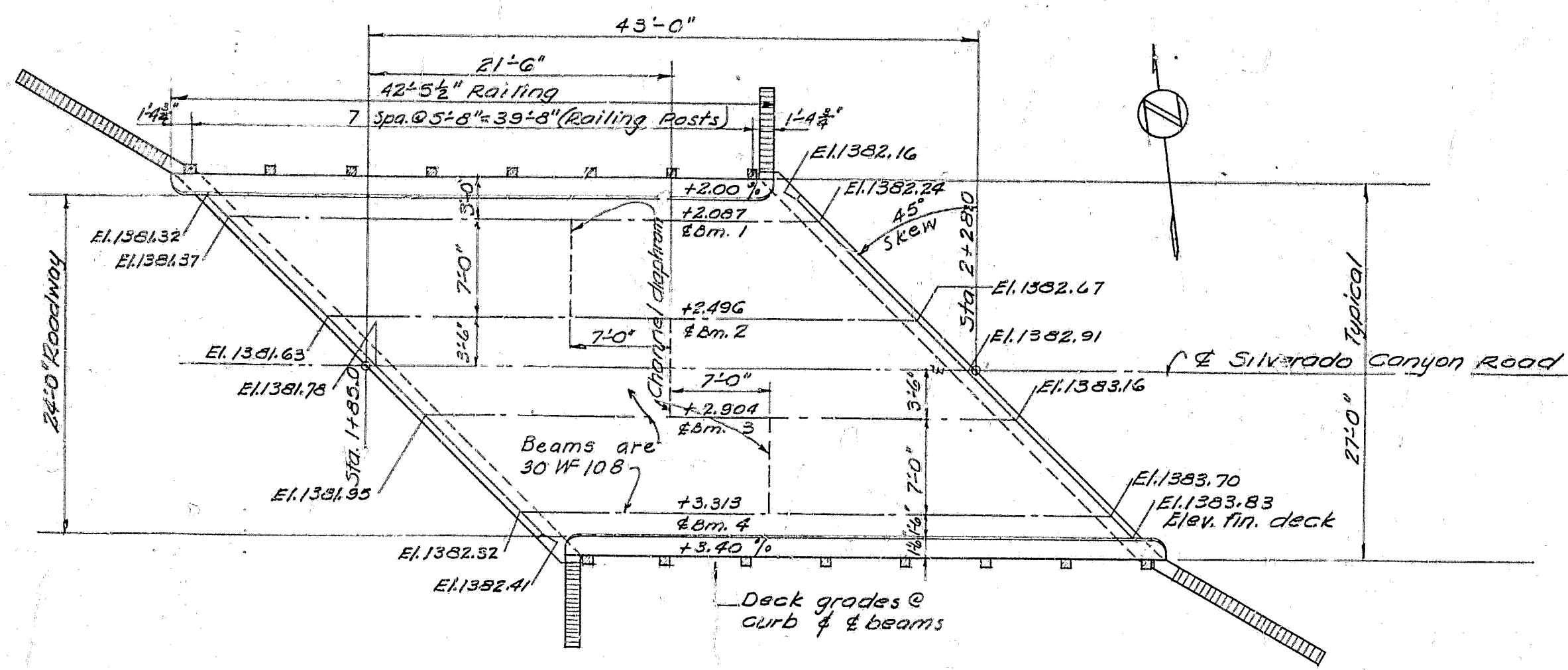
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DESIGN	DRAWN	CHECKED	7/2/47	LA-46-17

DONALD R. WARREN CO.
ENGINEERS
LOS ANGELES SAN FRANCISCO

1 FT. 1

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





SIZE OF OVERALL BAR	A	B	D
7/8"	4 1/2"	8"	5 1/2"
1-2 1/2"	4 1/2"	10"	5 1/2"
1-1"	5 1/2"	10"	5 1/2"
2-1 1/2"	7 1/2"	10"	6"
1-2"	8"	10"	6"
1-10 1/2"	8 1/2"	10"	6"
1-1 1/2"	9 1/2"	10"	6"

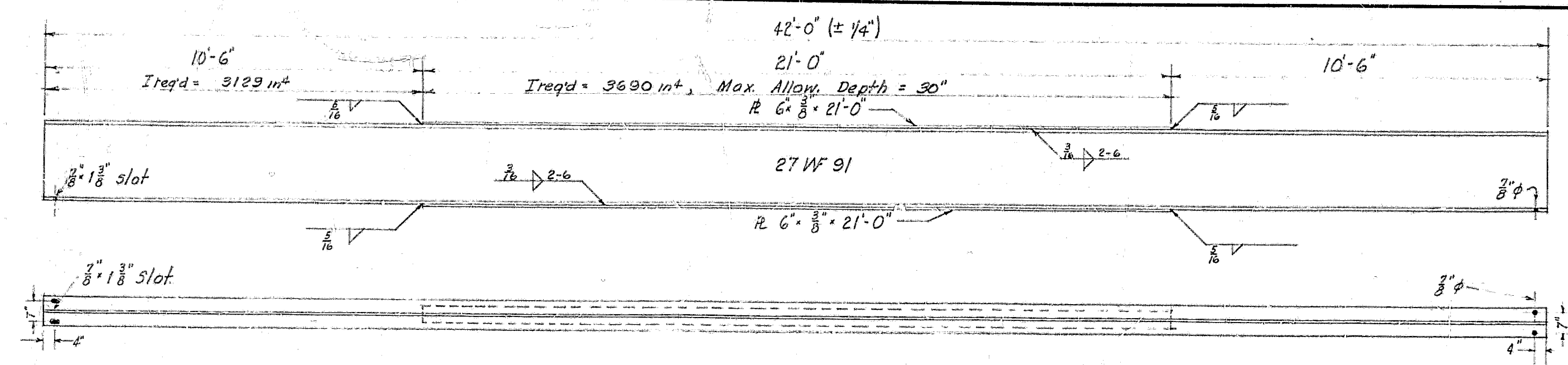
APPROVED *A. A. Beard*
A. A. BEARD
SUPERINTENDENT OF HIGHWAYS
DATE 8-8-46
by H. Springer
Asst. Supl.

Note: See dwg. No. 7 for Foundation Details SV-11 & SV-13
See dwg. No. 8 for Foundation Details SV-12
See dwg. No. 6 for Typical Railing Details

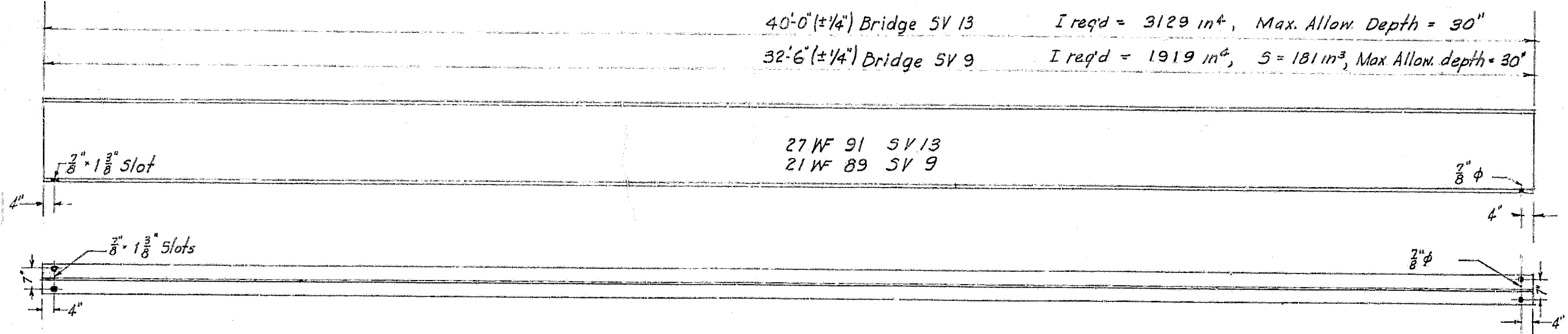
MICROFILMED
JUL 6 1960

Bridge #SV 11, 12 & 13
Deck Plans & Details
Across Silverado Creek
Sheet 13 of 13
P&O 12-5-1 Scale as noted
Vellum-Pencil Sketch

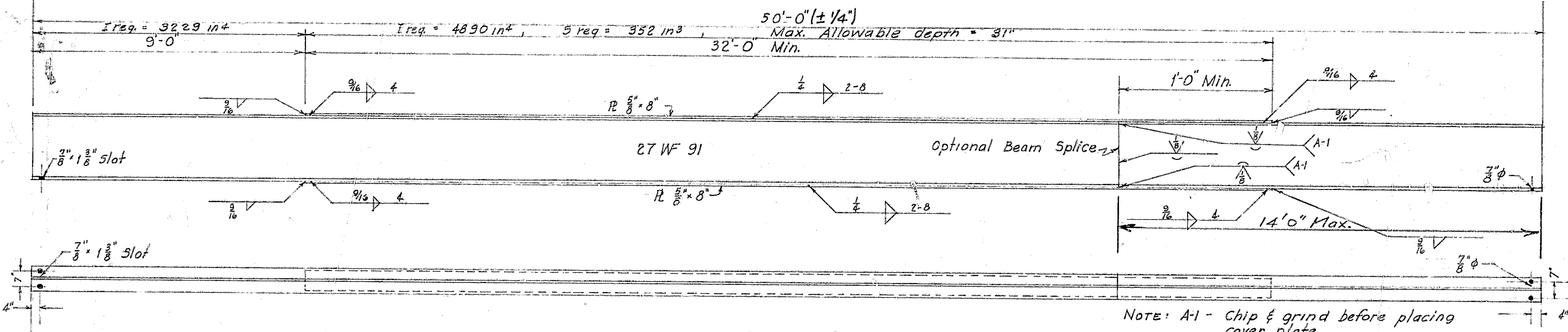
REV. NO.	DATE	REVISION	BY	APPROV.
ORANGE COUNTY, CALIFORNIA BRIDGES ACROSS SILVERADO, LADD, & SANTIAGO CREEKS DECK PLANS & DETAILS SILVERADO CREEK (SV-11), (SV-12), & (SV-13)				
As Noted				
DESIGNED BY	SCALE	ENGINEER	DATE	
DRAWN BY				
CHECKED BY				
DONALD R. WARREN CO. ENGINEERS LOS ANGELES SAN FRANCISCO				LA 46-17 JOB NO. 12 DRAWING NO.



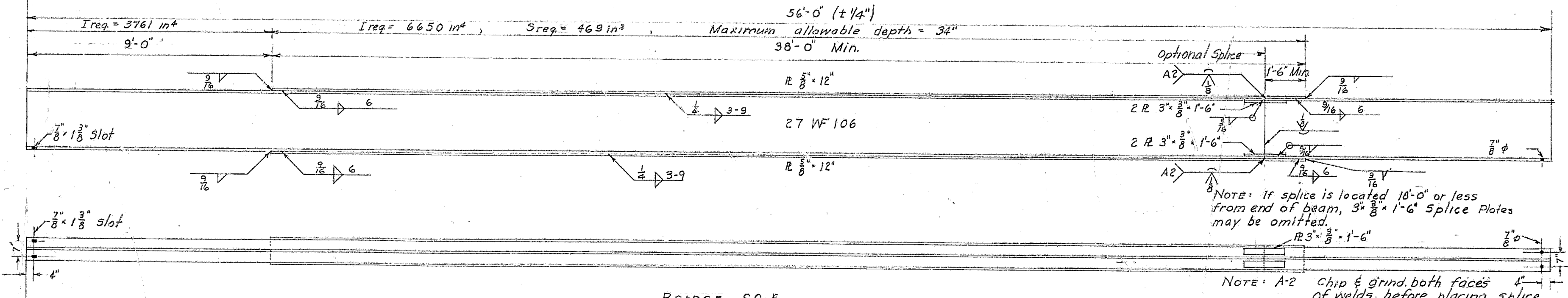
BRIDGE SV 11 (4 REQ'D)
BRIDGE SV 12 (4 REQ'D)



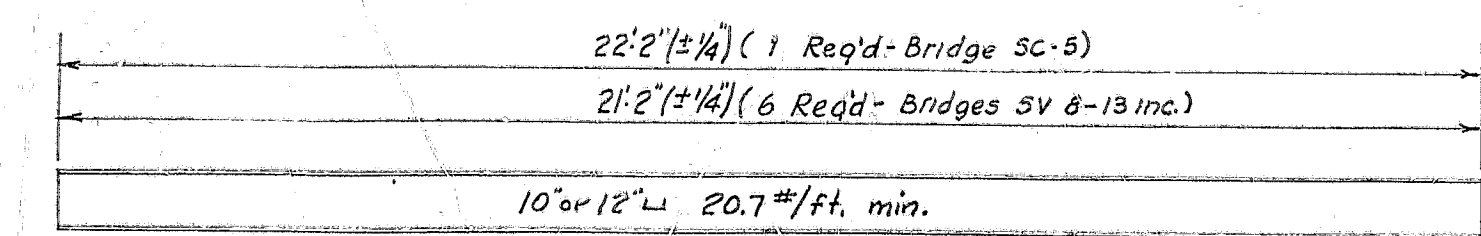
BRIDGE SV 9 (4 REQ'D)
BRIDGE SV 13 (4 REQ'D)



BRIDGE SV 8 (4 REQ'D)
BRIDGE SV 10 (4 REQ'D)



BRIDGE SC 5
4 REQ'D

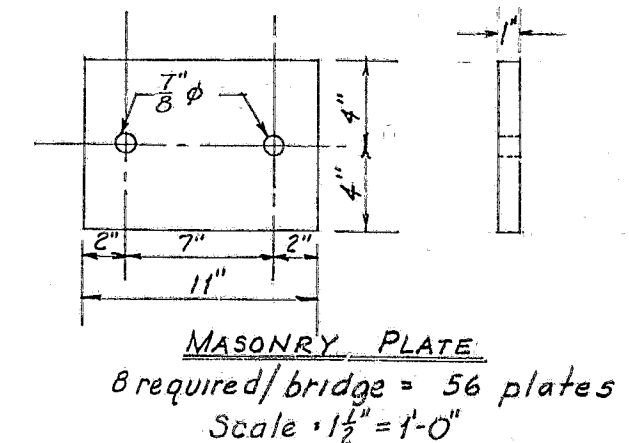


CHANNEL DIAPHRAGM

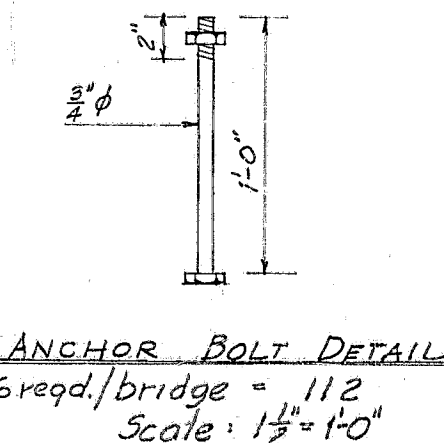
Bridge #805, SV 8, 9, 10, 11, 12, & 13
Structural Steel Details
Across Silverado, Ladd &
Santiago Creeks
Sheet 1 of 13
RED. 2.2.57 Scale as shown
Vellum-Pencil Sketch

BRIDGES SC 5 & SV 8, 9, 10, 11, 12, 13

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JUL 6 1960



MASONRY PLATE
8 required/bridge = 56 plates
Scale: 1 1/2" = 1'-0"



ANCHOR BOLT DETAIL
16 req'd/bridge = 112
Scale: 1 1/2" = 1'-0"

GENERAL NOTES

Substitutions may be made for the beam and plate sizes indicated on this drawing, provided that the moments of inertia and section moduli of the sections furnished are equal to or greater than those specified on the details and the overall depths of sections are not greater than those noted.

Three sets of shop drawings shall be furnished for checking before beams are fabricated.

STEEL
Steel shall conform to the requirements of A.S.T.M. Specification A7-42.

WELDING
All welding shall conform to the American Welding Society Specifications for Welded Highway and Railway Bridges, dated 1941.

All welds shall be made with a shielded arc process. Electrodes shall conform to the requirements of the Joint AWS-ASTM Tentative Specifications for Iron & Steel Arc Welding Electrodes, ASTM Serial Designation A233-43T.

Lengths of fillet welds indicated on this drawing are effective lengths. The effective length of a fillet weld is the overall length less twice the size of the weld.

Beam splices shall be completed before any cover plate welding is done.

Cover plates shall be tack welded in place and the specified welds laid with a backlap in wandering sequence in such a way that locked up stresses will be minimized. The welding sequence shall be indicated in the shop drawings.

PAINT

All steel except anchor bolts shall have one shop coat of red lead and oil. All loose scale and rust shall be removed by sand blasting before painting.

APPROVED
A.A. BEARD
SUPERINTENDENT OF HIGHWAYS

DATE

REV. NO.	DATE	REVISION	BY	APPROV.
ORANGE COUNTY, CALIFORNIA BRIDGES ACROSS SILVERADO, LADD, & SANTIAGO CREEKS STRUCTURAL STEEL DETAILS				
DESIGN	J.S.	LOS ANGELES	SAN FRANCISCO	LA 46-17
DRAWN	J.D.			J.S.
CHECKED	J.D.			J.S.