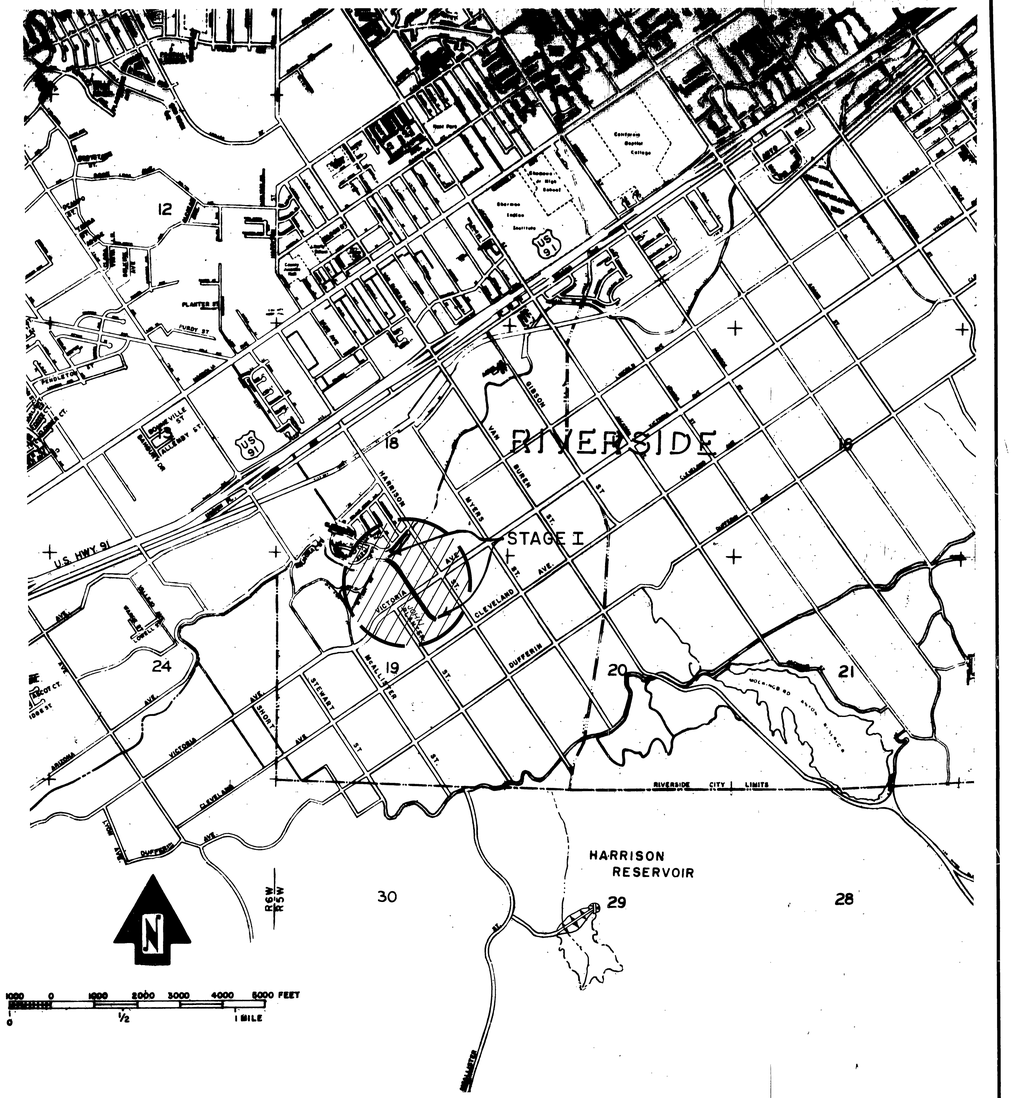
HARRISON DAM OUTLET

CONSTRUCTION DRAWINGS

BY

RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT



GENERAL NOTES

1. Reinforced concrete shall be Class A (6 sack) and shall have a minimum of 3,000 p.s.i. 28 day compressive strength.
2. Reinforced steel shall be deformed, intermediate grade, billet-steel bars conforming to the specifications of A.S.T.M. Designation A-15, latest revised, with deformations conforming to A.S.T.M. Designation A-305.
3. All reinforcing bar bends and hooks shall conform to the American Concrete Institute "MANUAL OF STANDARD PRACTICE" (ACI 315-57).
4. Lap all reinforcing steel a minimum of 30 bar diameters at splices. The location of all splices shall be subject to approval of the Engineer.
5. All reinforcing steel shall have a minimum cover of 1½" unless otherwise noted.
6. All exposed edges of concrete structures shall be chamfered ¾" or rounded as directed.
7. Unreinforced concrete channel lining shall be Class B (5 sack), unless otherwise specified.
8. All concrete thickness dimensions are the minimum allowable.
9. The concrete pipe shall be placed in conformance with the case II bedding requirements; the pipe shall be reinforced concrete pipe of strength Class II (1000-D).
10. Transverse grooves 1" deep at 10' spacing shall be provided in all unreinforced concrete channel lining. Grooves shall be formed using 3/16" x 1" masonite strips.
11. All transverse construction joints in unreinforced concrete channel lining required at the end of a day's placing operation shall be located between the transverse grooves and No. 4x30" dowels at 24" spacing embedded 15" shall be provided.
12. Place 1½" dia. weep holes 6" above invert on 10' %. Gravel filter material pocket of approximately one cu. ft. shall be placed behind each weep hole.
13. The weep hole filter material shall be Class I, Type B, as specified in paragraph 68-1.025 of the STANDARD SPECIFICATIONS.
14. The surface finish required for unreinforced concrete channel lining shall be a tight wood float finish. See Special Provisions.
15. For Right of Way data refer to Record of Survey Book 48 pages 50 and 51

AS BUILT

PROJECT NO. 1-0-200

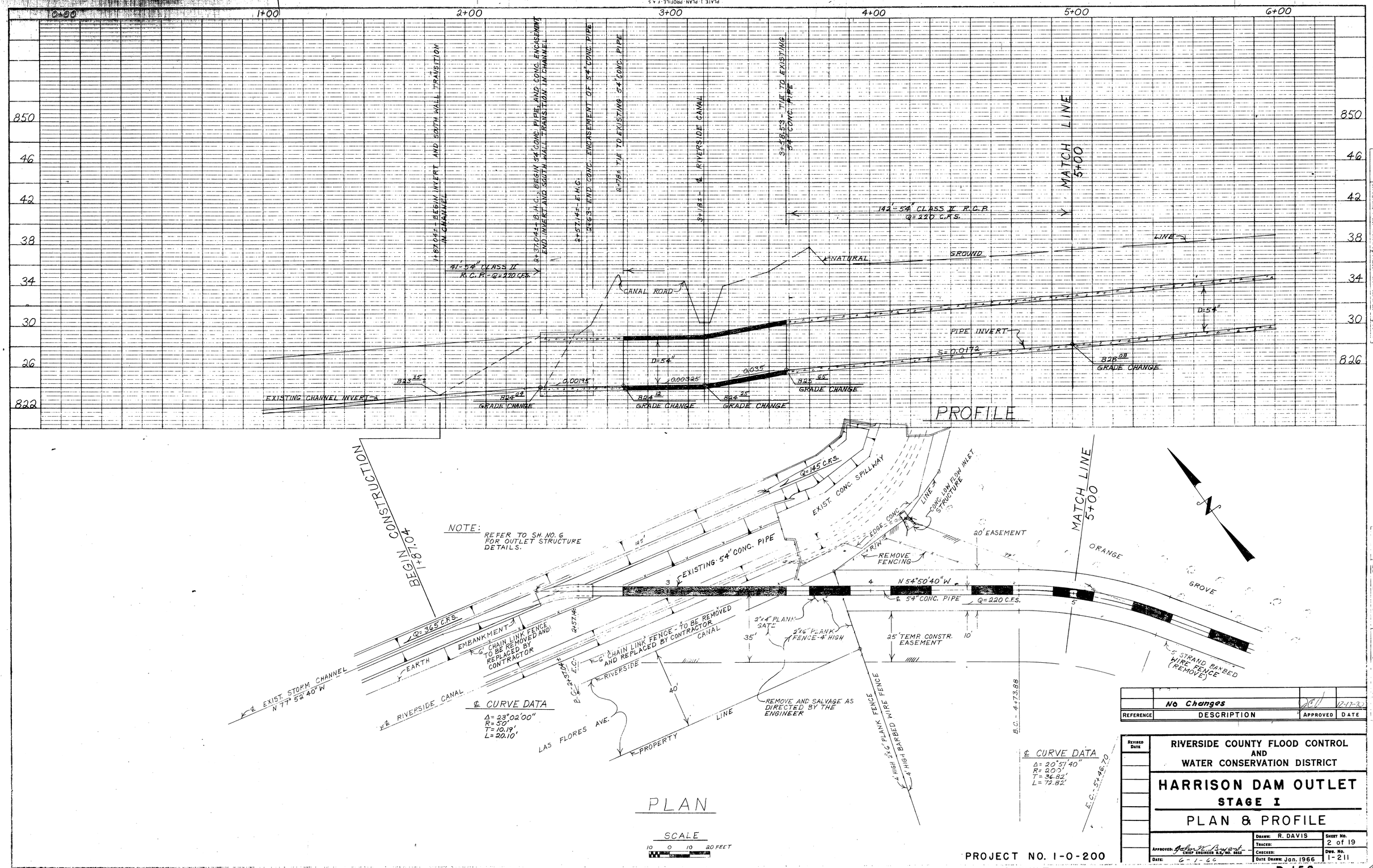
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

HARRISON DAM OUTLET
STAGE I

REVISED	APPROVED: CHIEF ENGINEER R.E. NO. 8822	DRAWN BY: Ken Biladeau
	DATE:	CHECKED BY:
		DATE DRAWN:
	SHEET NO. 1 of 19	DR. NO. 1-211

D-158

PLATE 1 PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S.F. CAL.
NO. 1000H-1



REFERENCE	DESCRIPTION	APPROVED	DATE
	No Changes	DCL	12-17-70

REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

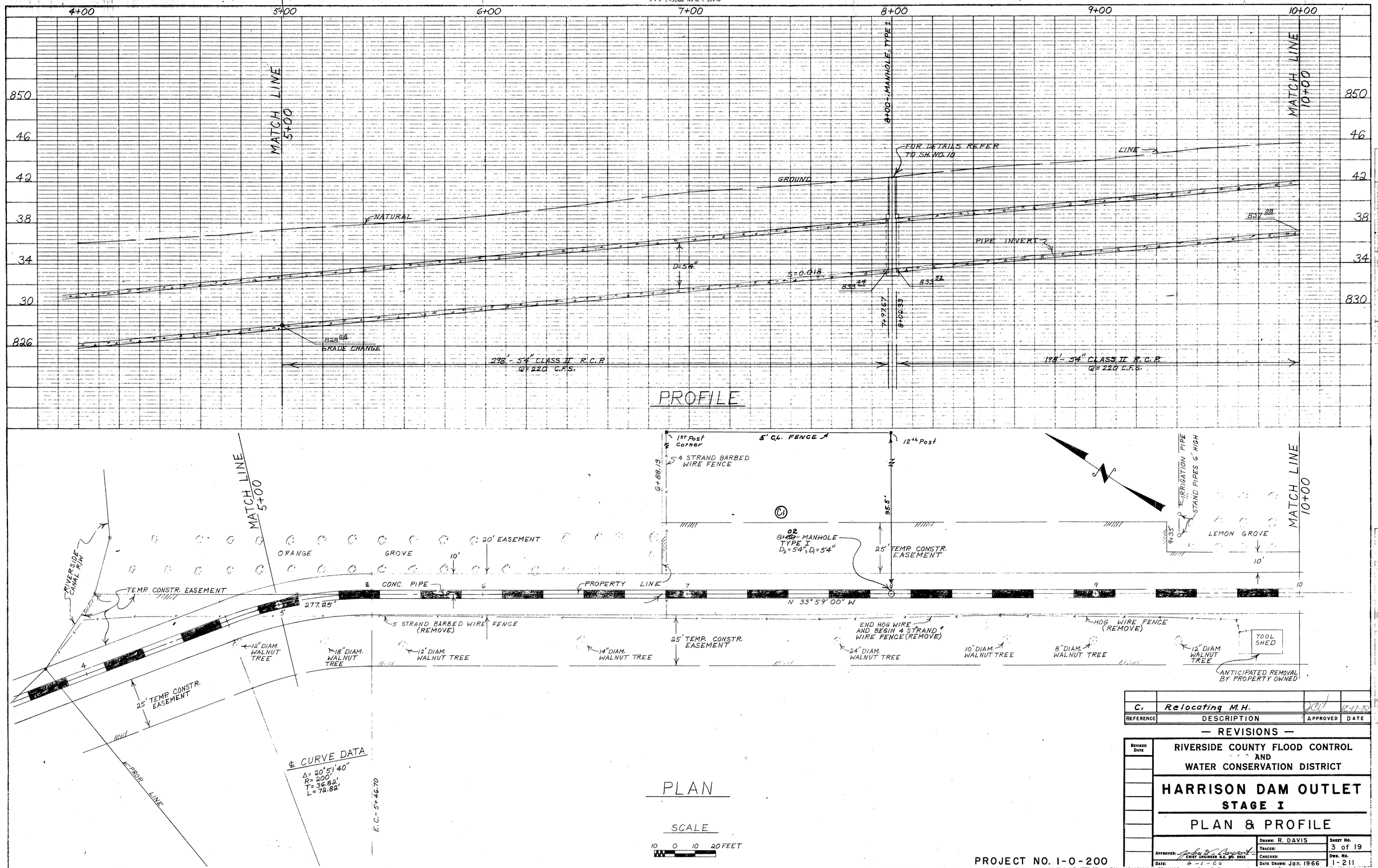
HARRISON DAM OUTLET
STAGE I
PLAN & PROFILE

APPROVED: John W. Bryant, CHIEF ENGINEER R.E. NO. 8822	DRAWN: R. DAVIS	SHEET NO. 2 of 19
	TRACED:	
	CHECKED:	DWG. NO. 1-211
DATE: 6-1-66	DATE DRAWN: Jan. 1966	

PROJECT NO. 1-0-200

AS BUILT

D-158



REFERENCE	DESCRIPTION	APPROVED	DATE
C.	Relocating M.H.	JCB	12-17-70

— REVISIONS —

Revised Date

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

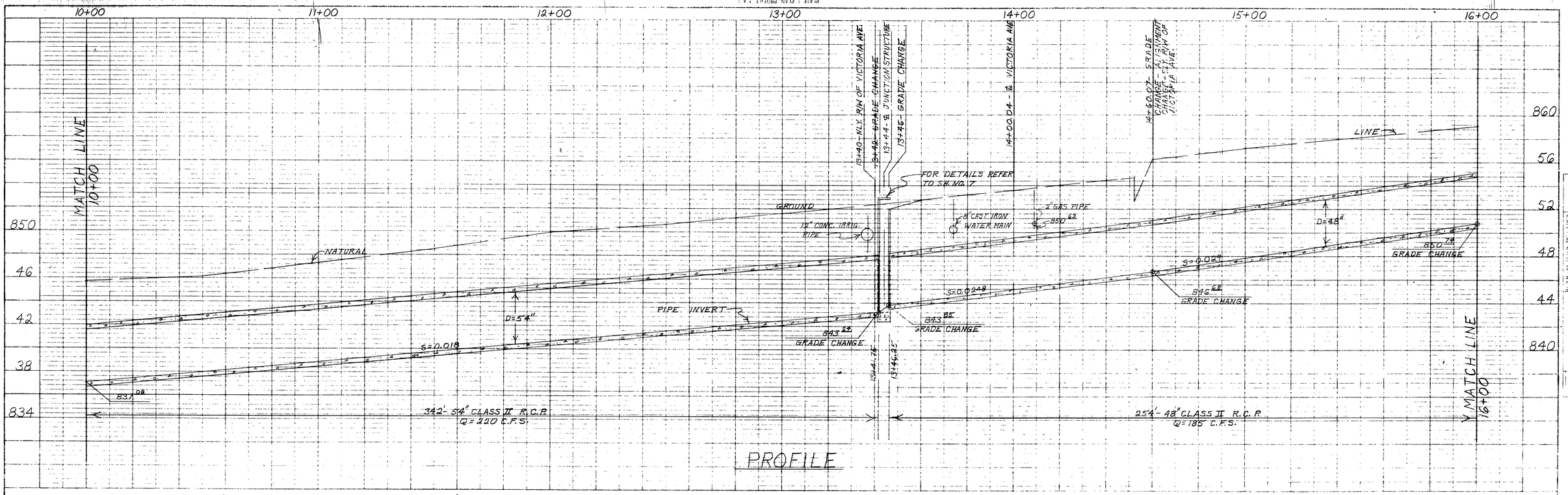
HARRISON DAM OUTLET
STAGE I
PLAN & PROFILE

Approved: John V. Crupper, Chief Engineer B.E. No. 8885	Drawn: R. DAVIS	Sheet No. 3 of 19
	Traced:	
	Checked:	Dwg. No. 1-211
Date: 6-1-66	Date Drawn: Jan. 1966	

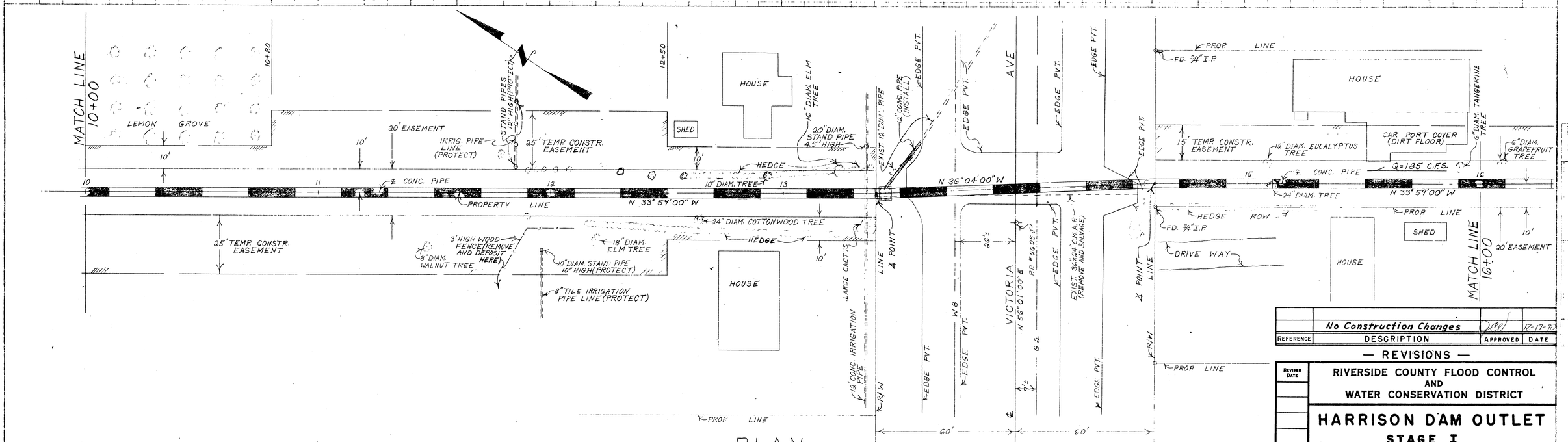
PROJECT NO. 1-0-200

AS BUILT

D-158



PROFILE



PLAN

SCALE

10 0 10 20 FEET

PROJECT NO. 1-0-200
AS BUILT

REFERENCE	DESCRIPTION	APPROVED	DATE
	No Construction Changes		12-17-70

— REVISIONS —

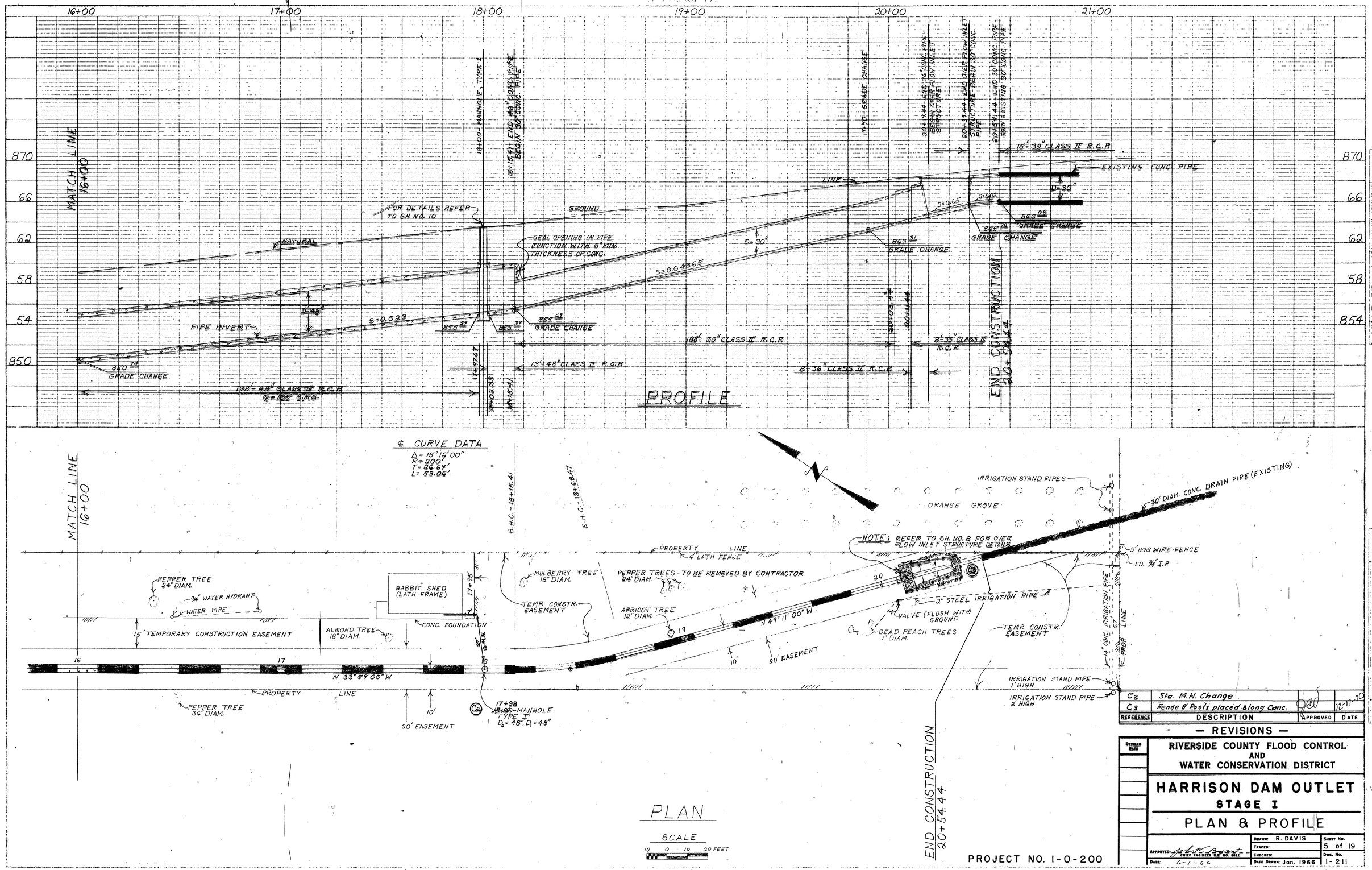
REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

HARRISON DAM OUTLET
STAGE I
PLAN & PROFILE

APPROVED: John H. Cayard, CHIEF ENGINEER R.E. NO. 9822	DRAWN: R. DAVIS	SHEET NO. 4 of 19
	TRACED:	
DATE: 6-1-66	CHECKED:	DWG. NO. 1-211
	DATE DRAWN: Jan. 1966	

D-158



REFERENCE	DESCRIPTION	APPROVED	DATE
C2	Sta. M.H. Change		12-11-20
C3	Fence & Post's placed along Conc.		

— REVISIONS —

REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

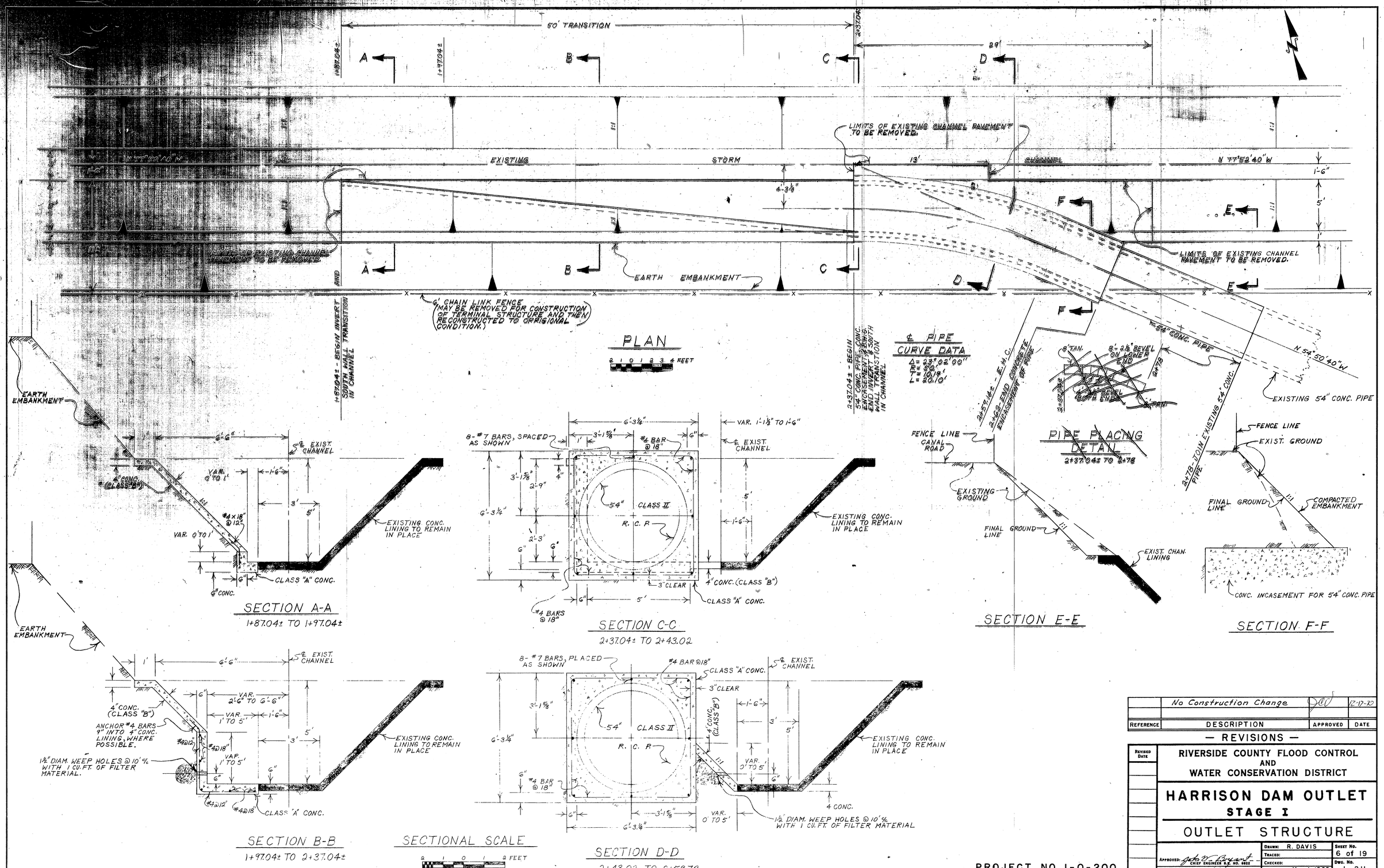
HARRISON DAM OUTLET
STAGE I
PLAN & PROFILE

APPROVED: Robert Ragent, CHIEF ENGINEER R.E. NO. 5888	DRAWN: R. DAVIS	SHEET NO. 5 of 19
	TRACED:	
	CHECKED:	DWG. NO. 1-211
DATE: 6-1-66	DATE DRAWN: Jan. 1966	

PROJECT NO. 1-0-200

AS BUILT

D-158



REFERENCE	DESCRIPTION	APPROVED	DATE
	No Construction Change		12-17-70

— REVISIONS —

REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

HARRISON DAM OUTLET
STAGE I
OUTLET STRUCTURE

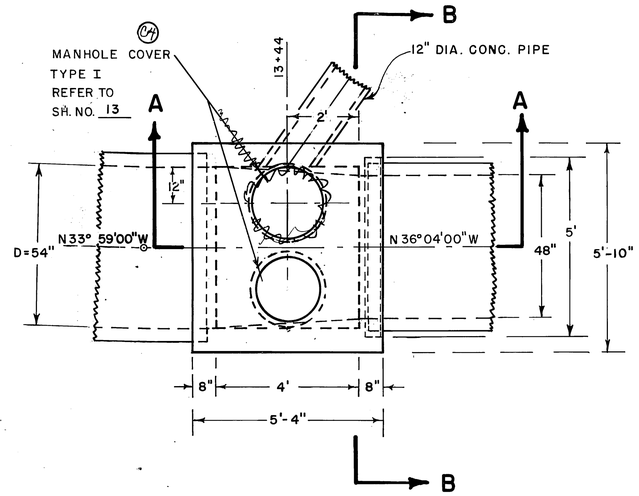
APPROVED: John W. Bryant, CHIEF ENGINEER R.E. NO. 6822
DATE: 6-1-66

DRAWN: R. DAVIS
TRACED:
CHECKED:
DATE DRAWN: March 1966

SHEET NO. 6 of 19
DWG. NO. 1-211

PROJECT NO. 1-0-200
AS BUILT

D-158



JUNCTION STRUCTURE PLAN

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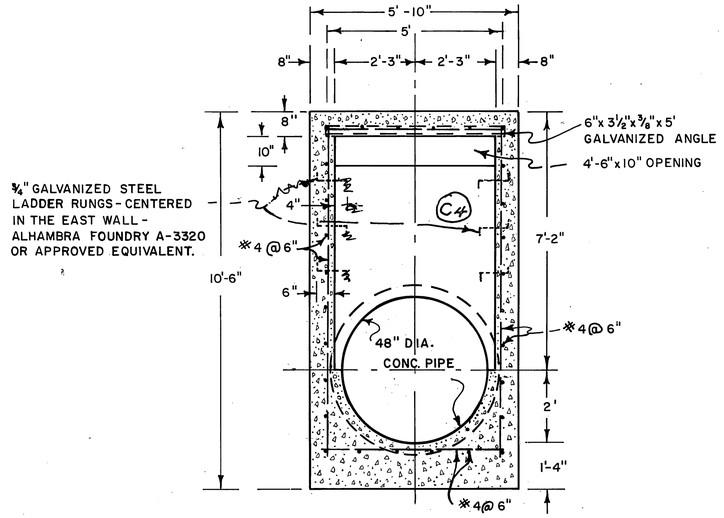

SECTION B-B

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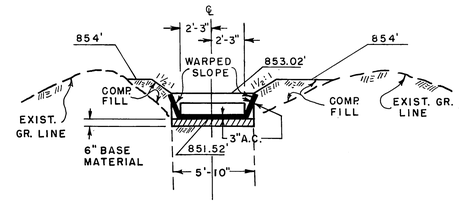
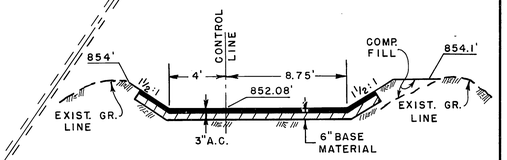


SECTION D-D

STA. 13+47

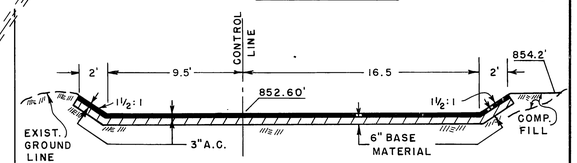
5 0 5 FT.



SECTION E-E

STA. 13+53

5 0 5 FT.



SECTION F-F

STA. 13+58

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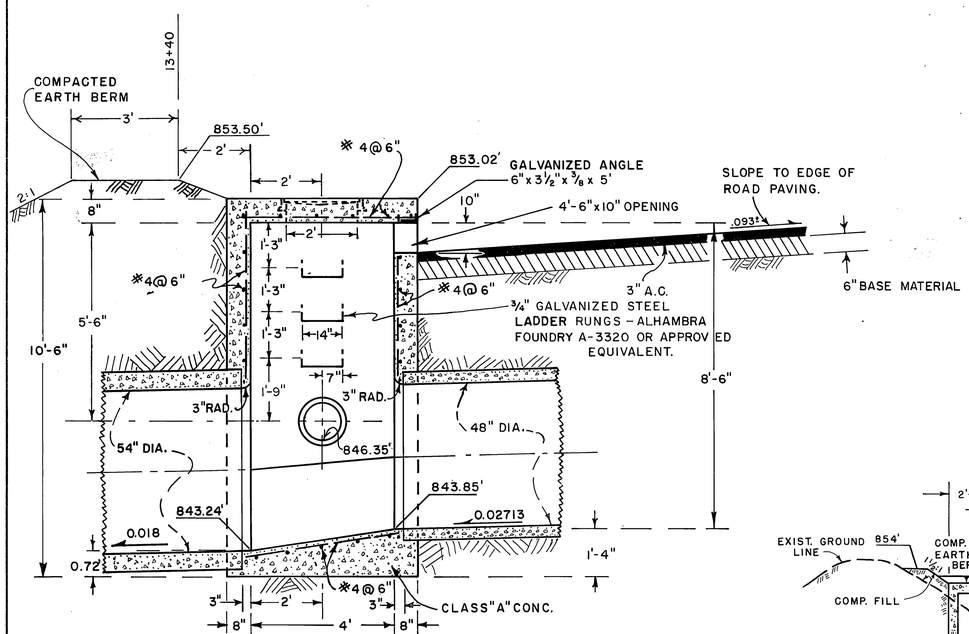
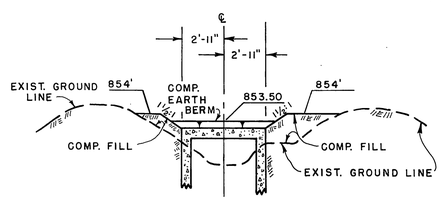


SECTION A-A

2 1 0 2 FEET



SECTION C-C

STA. 13+43

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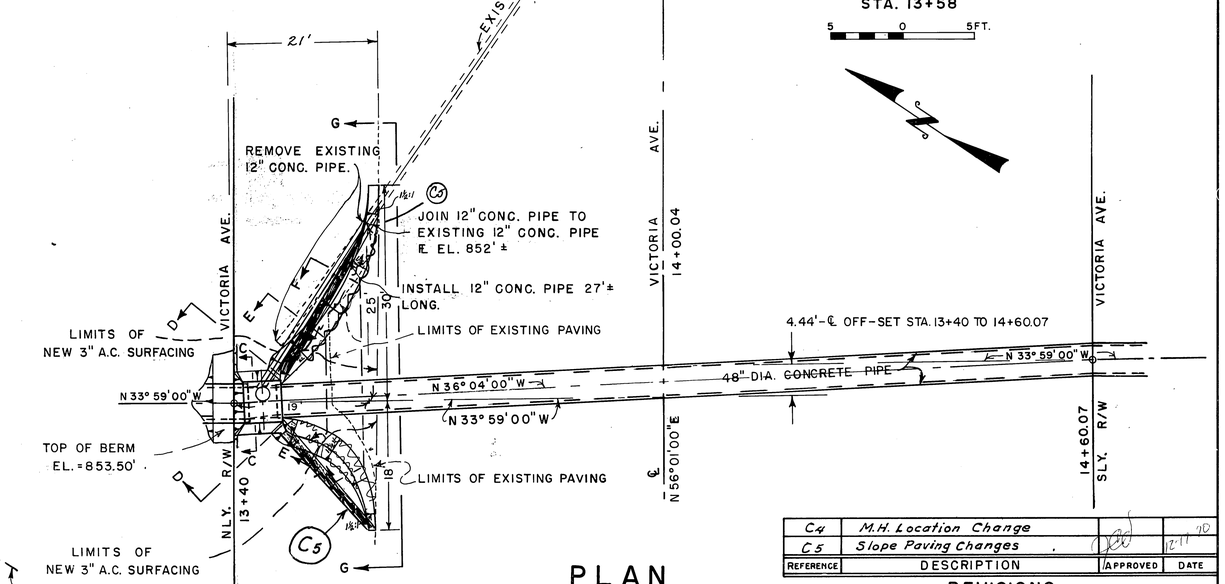
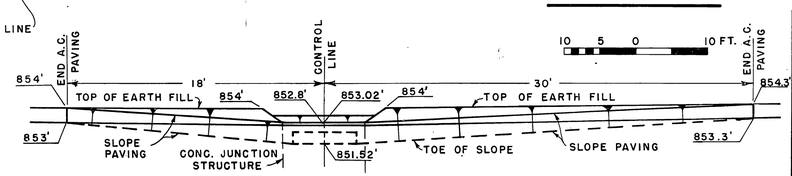


PLAN

10 5 0 10 FT.



SECTION G-G

5 0 5 FT.

REFERENCE	DESCRIPTION	APPROVED	DATE
C4	M.H. Location Change		
C5	Slope Paving Changes		12-11-70

— REVISIONS —

REVISED DATE

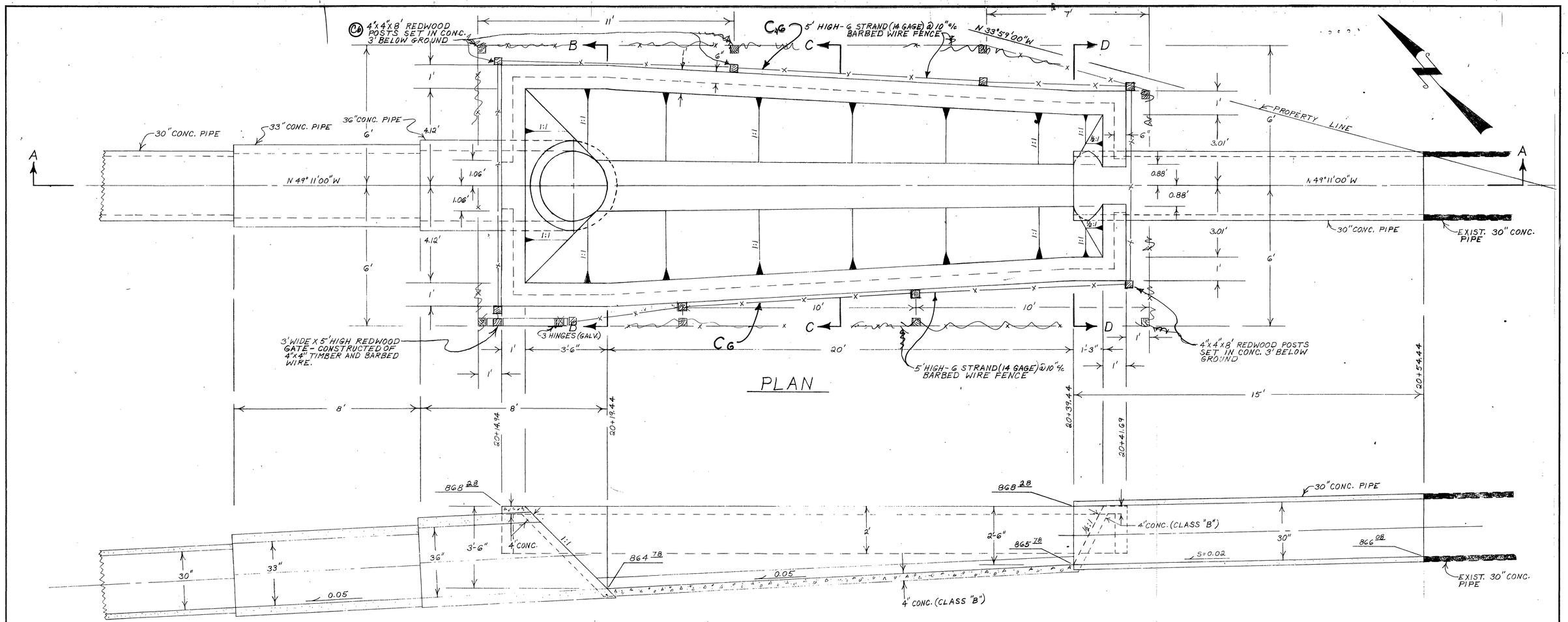
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

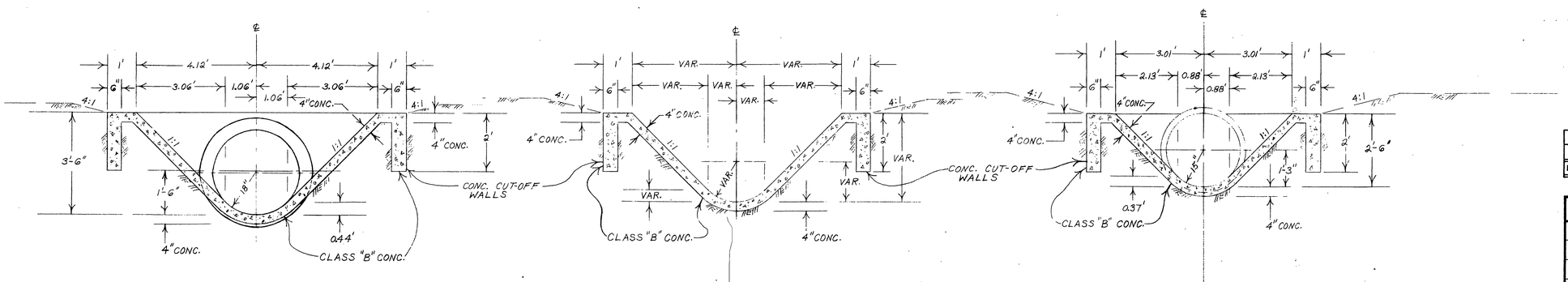
HARRISON DAM OUTLET
STAGE I
VICTORIA AVE. DETAILS

APPROVED: John W. Bright, CHIEF ENGINEER R.S./NO. 8852	DRAWN: R. DAVIS	SHEET NO. 7 of 19
	TRACED: K.R.B. & R.B.	
	CHECKED:	DWG. NO. 1-211
DATE: 6-1-66	DATE DRAWN: March 1966	

PROJECT NO. 1-0-200
AS BUILT

D-158





REFERENCE	DESCRIPTION	APPROVED	DATE
C6	Change Location of B.W. Fence		12-17-70

— REVISIONS —

REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

HARRISON DAM OUTLET
STAGE I
INLET DETAILS

APPROVED: CHIEF ENGINEER R.E. NO. 8825	DRAWN: R. DAVIS	SHEET NO. 8 of 19
	TRACED:	
	CHECKED:	DWG. NO. 1-211
DATE: 6-1-66	DATE DRAWN: Feb. 1966	

PROJECT NO. 1-0-200
AS BUILT

D-158