LA SIERRA STORM CHANNEL

STAGE "B"

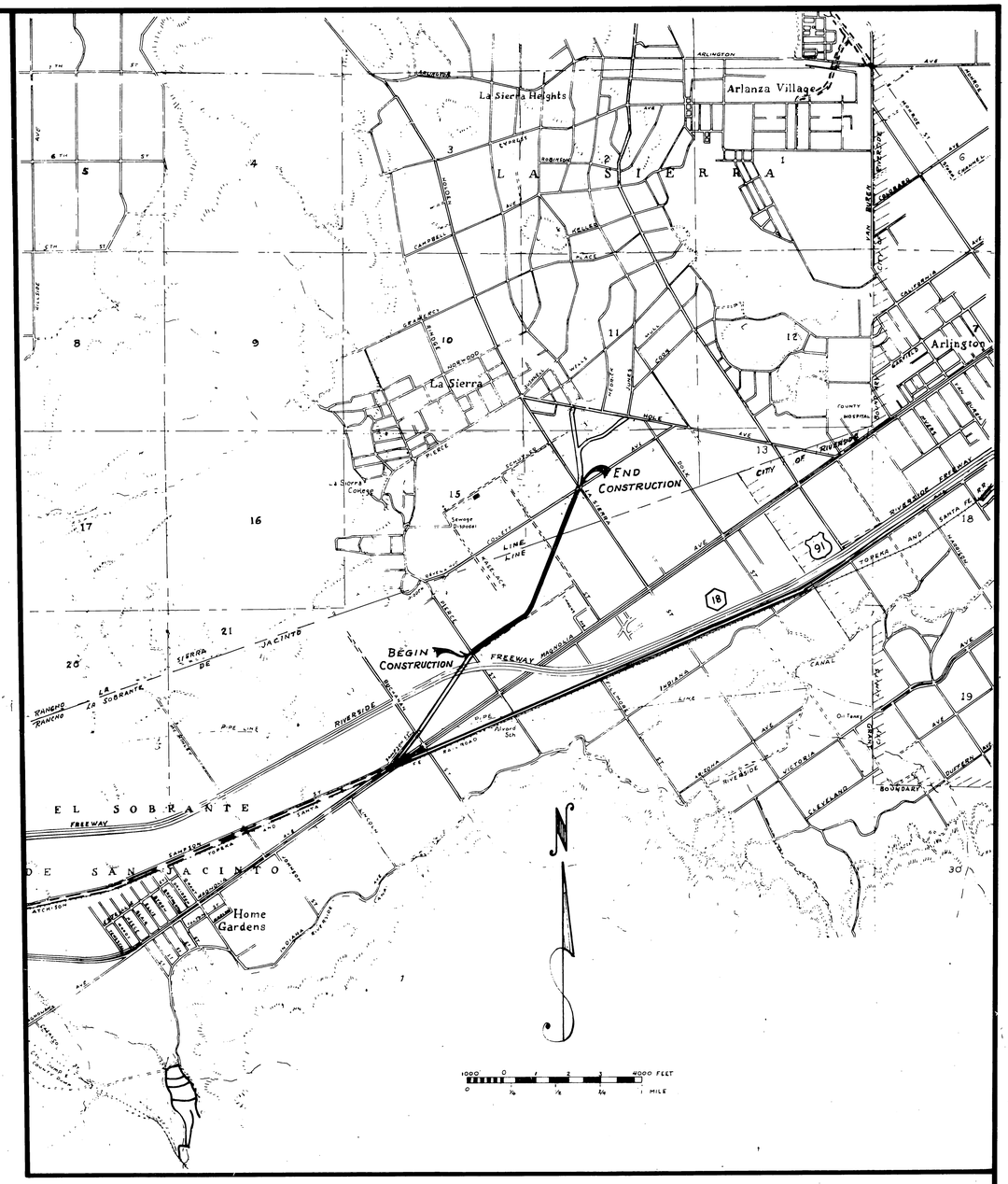
CONSTRUCTION DRAWINGS

BY

RIVERSIDE COUNTY FLOOD CONTROL

AND

WATER CONSERVATION DISTRICT



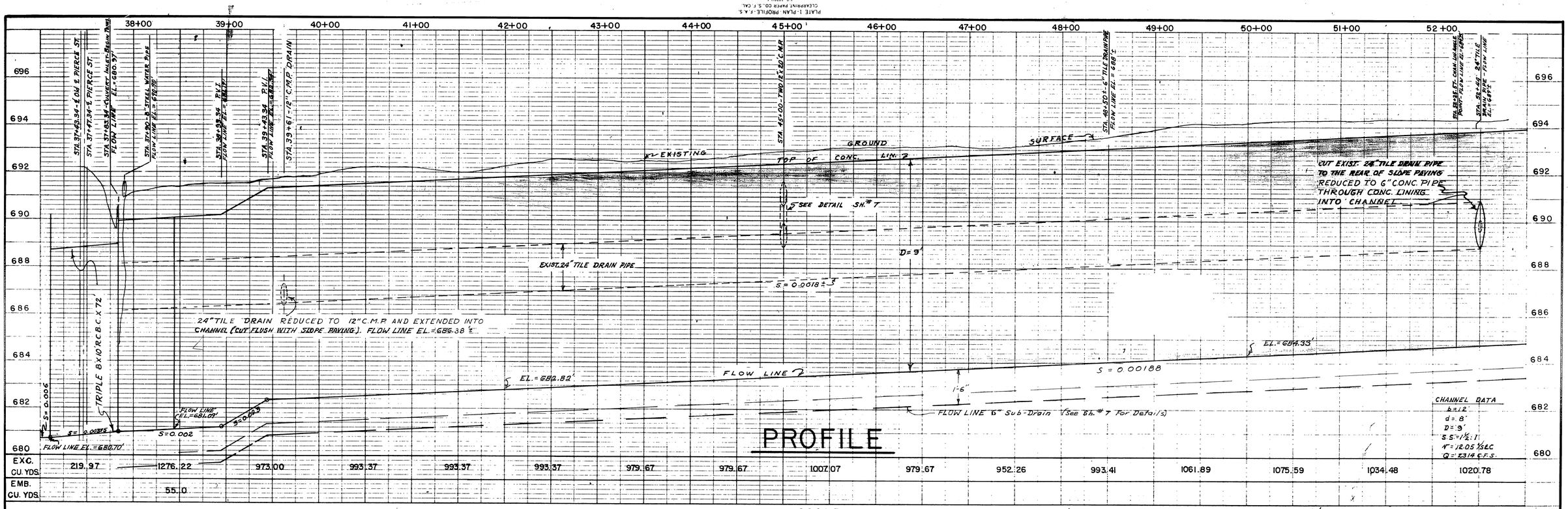
GENERAL NOTES

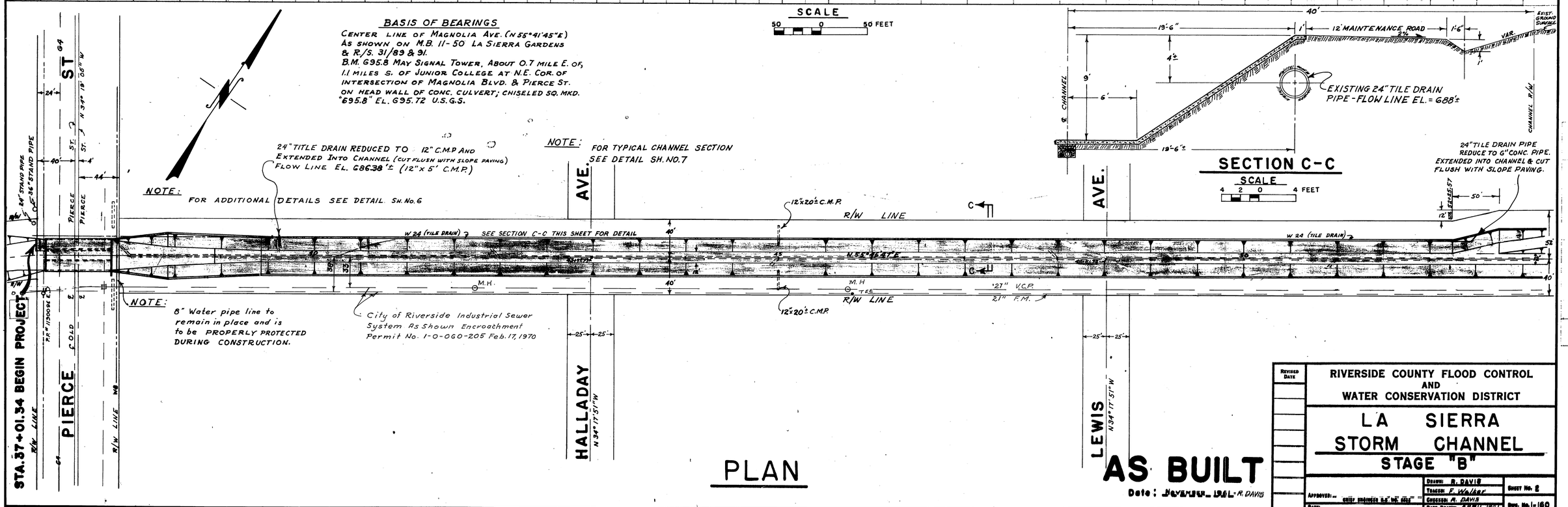
1. Reinforced concrete shall be Class A (6 sack) and shall have a minimum of 3,000 p.s.i. 28 day compressive strength.
2. Reinforcing steel shall be deformed, intermediate grade, billet-steel bars conforming to the specifications of A.S.T.M. Designation A-15, latest revised, with deformations conforming 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."
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 1 1/2" unless otherwise noted.
6. All exposed edges of concrete structures shall be chamfered 3/4" 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. Transverse grooves 1" deep at 10' spacing shall be provided in all unreinforced concrete channel lining. Grooves may be tooled or formed using 3/16" x 1" masonite strips.
10. 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. 4 x 30" dowels at 24" spacing embedded 15" shall be provided.
11. Place 1 1/2" dia. weep holes 6" above invert on 10' ℄. Gravel pockets of approximatly one cu. ft. shall be placed behind each weep hole.
12. Approved pit run gravel (1" maximum) shall be used for subdrain and weephole filter material where required on the plans.
13. The surface finish required for unreinforced concrete channel lining shall be a tight wood float finish.
14. All embankments shall be compacted to not less than 90 % maximum density as determined by tests made conforming to the requirements of A.A.S.H.O. Designation T99-57, "The Compaction and Density of Soils."

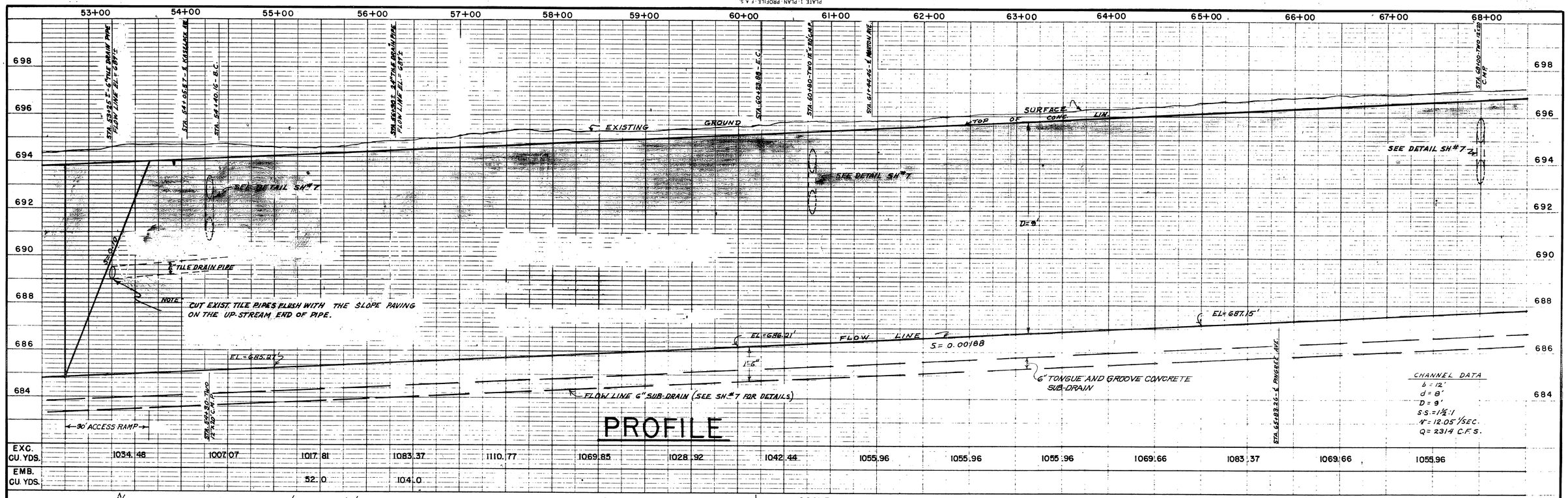
PROJECT NO. 1-0-060

Revised Date	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	
	LA SIERRA STORM CHANNEL STAGE "B"	
	COVER SHEET	
Approved: John W. Bryant, Chief Engineer R.C.F.C. & W.C.D.	Drawn: Ken Bilodeau; Traced: " "; Checked: R. Davis; Date Drawn: July 1960	Sheet No. 1; Dwg. No. 1-160
Date: 5/11/61		

D-13B


PROFILE
38+00
39+00
40+00
41+00
42+00
43+00
44+00
45+00
46+00
47+00
48+00
49+00
50+00
51+00
52+00
696
694
692
690
688
686
684
682
680
STA. 37+43.34 - ℄ OF E. PIERCE ST.
STA. 37+47.34 - ℄ PIERCE ST.
STA. 37+83.34 - P.V.I. FLOW LINE EL. = 680.97
STA. 37+90 - 8" STEEL WATER PIPE FLOW LINE EL. = 690.98
STA. 38+95.34 - P.V.I. FLOW LINE EL. = 686.07
STA. 39+43.34 - P.V.I. FLOW LINE EL. = 687.47
STA. 39+61 - 12" C.M.P. DRAIN
STA. 45+00 - TWO 12"x20' C.M.P.
STA. 48+50 ± - 6" TILE DRAIN PIPE FLOW LINE EL. = 688.5±
STA. 51+36 ± - CHAN. LINE BREAK POINT - FLOW LINE EL. = 688.5±
STA. 51+49 - 24" TILE DRAIN PIPE FLOW LINE EL. = 688.5±
EXISTING GROUND SURFACE
TOP OF CONC. LIN. ?
CUT EXIST. 24" TILE DRAIN PIPE TO THE REAR OF SLOPE PAVING REDUCED TO 6" CONC. PIPE THROUGH CONC. LINING INTO CHANNEL
SEE DETAIL SH. # 7
D = 9'
EXIST. 24" TILE DRAIN PIPE
S = 0.0018 ±
24" TILE DRAIN REDUCED TO 12" C.M.P. AND EXTENDED INTO CHANNEL (CUT FLUSH WITH SLOPE PAVING). FLOW LINE EL. = 686.38 ±
TRIPLE 8'x10' R.C.B.C. x 72'
S = 0.006
S = 0.00312
FLOW LINE EL. = 680.70'
FLOW LINE EL. = 681.07'
S = 0.002
S = 0.0025
EL. = 682.82'
FLOW LINE
S = 0.00188
EL. = 684.33'
1'-6"
FLOW LINE 6" Sub-Drain (See Sh. # 7 for Details)
CHANNEL DATA
b = 12'
d = 8'
D = 9'
S.S. = 1½:1
n = 0.0505 S&C
Q = 2314 C.F.S.
EXC. CU. YDS.
219.97
1276.22
973.00
993.37
993.37
993.37
979.67
979.67
1007.07
979.67
952.26
993.41
1061.89
1075.59
1034.48
1020.78
EMB. CU. YDS.
55.0


SCALE
50 0 50 FEET
BASIS OF BEARINGS
CENTER LINE OF MAGNOLIA AVE. (N 55°41'45" E) AS SHOWN ON M.B. 11-50 LA SIERRA GARDENS & R/S. 31/89 & 91.
B.M. 695.8 MAY SIGNAL TOWER, ABOUT 0.7 MILE E. OF, 1.1 MILES S. OF JUNIOR COLLEGE AT N.E. COR. OF INTERSECTION OF MAGNOLIA BLVD. & PIERCE ST. ON HEAD WALL OF CONC. CULVERT; CHISELED SQ. MKD. "695.8" EL. 695.72 U.S.G.S.
NOTE: FOR ADDITIONAL DETAILS SEE DETAIL SH. No. 6
24" TITLE DRAIN REDUCED TO 12" C.M.P AND EXTENDED INTO CHANNEL (CUT FLUSH WITH SLOPE PAVING) FLOW LINE EL. 686.38 ± (12" x 5' C.M.P.)
NOTE: FOR TYPICAL CHANNEL SECTION SEE DETAIL SH. NO. 7
STA. 37+01.34 BEGIN PROJECT
PIERCE ST.
N 34° 18' 00" W
PIERCE ST.
PIERCE ST.
OLD E
R/W LINE
R/W LINE
24" STAND PIPE
36" STAND PIPE
HALLADAY AVE.
N 34° 17' 51" W
LEWIS AVE.
N 34° 17' 51" W
12"x20' C.M.P.
R/W LINE
W 24 (TILE DRAIN)
SEE SECTION C-C THIS SHEET FOR DETAIL
N 55° 41' 45" E
M.H.
M.H.
TEE
21" V.C.P.
21" F.M.
R/W LINE
12"x20' C.M.P.
NOTE: 8" Water pipe line to remain in place and is to be PROPERLY PROTECTED DURING CONSTRUCTION.
City of Riverside Industrial Sewer System As Shown Encroachment Permit No. 1-0-060-205 Feb. 17, 1970
PLAN
SECTION C-C
SCALE
4 2 0 4 FEET
40'
19'-6"
1'
12' MAINTENANCE ROAD
1'-6"
VAR.
EXIST. GROUND SURFACE
4'±
9'
6'
℄ CHANNEL
CHANNEL R/W
EXISTING 24" TILE DRAIN PIPE - FLOW LINE EL. = 688'±
19'-6'±
24" TILE DRAIN PIPE REDUCE TO 6" CONC. PIPE. EXTENDED INTO CHANNEL & CUT FLUSH WITH SLOPE PAVING.
50'
12'
52'
40'
AS BUILT
Date: NOVEMBER 1981 R. DAVIS
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
LA SIERRA STORM CHANNEL
STAGE "B"
Drawn: R. DAVIS
Traced: F. Walker
Checked: R. DAVIS
Date Drawn: APRIL 1981
Sheet No. 2
Dwg. No. 1-160
Approved:
Date:
PROJECT NO. 1-0-060
D-173 B

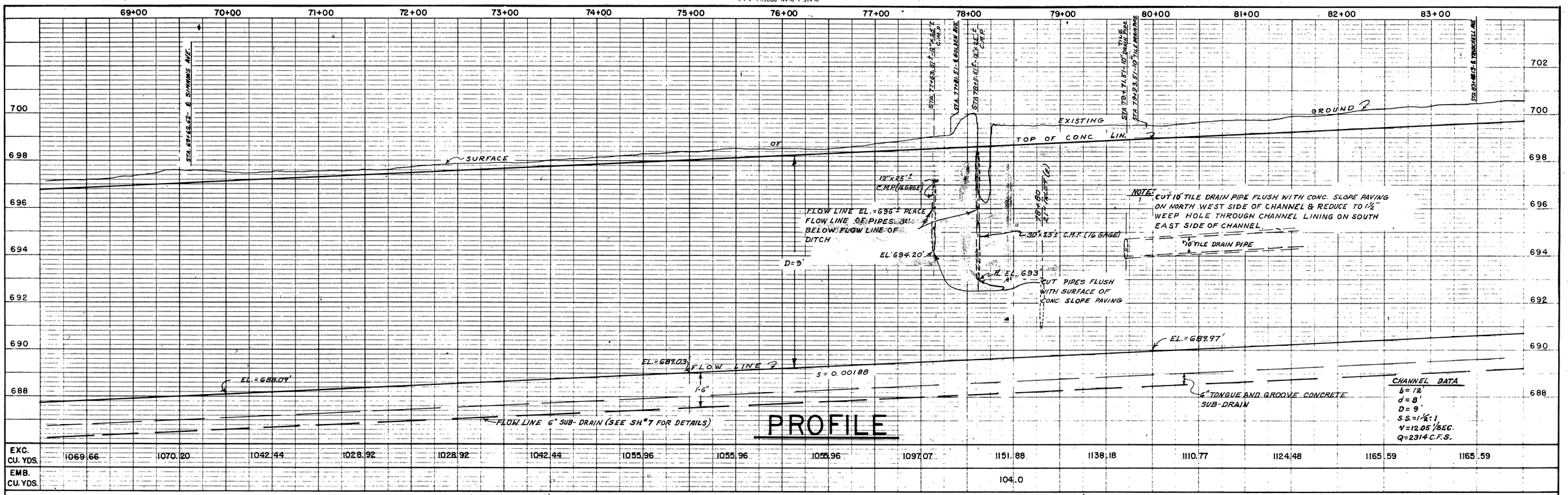


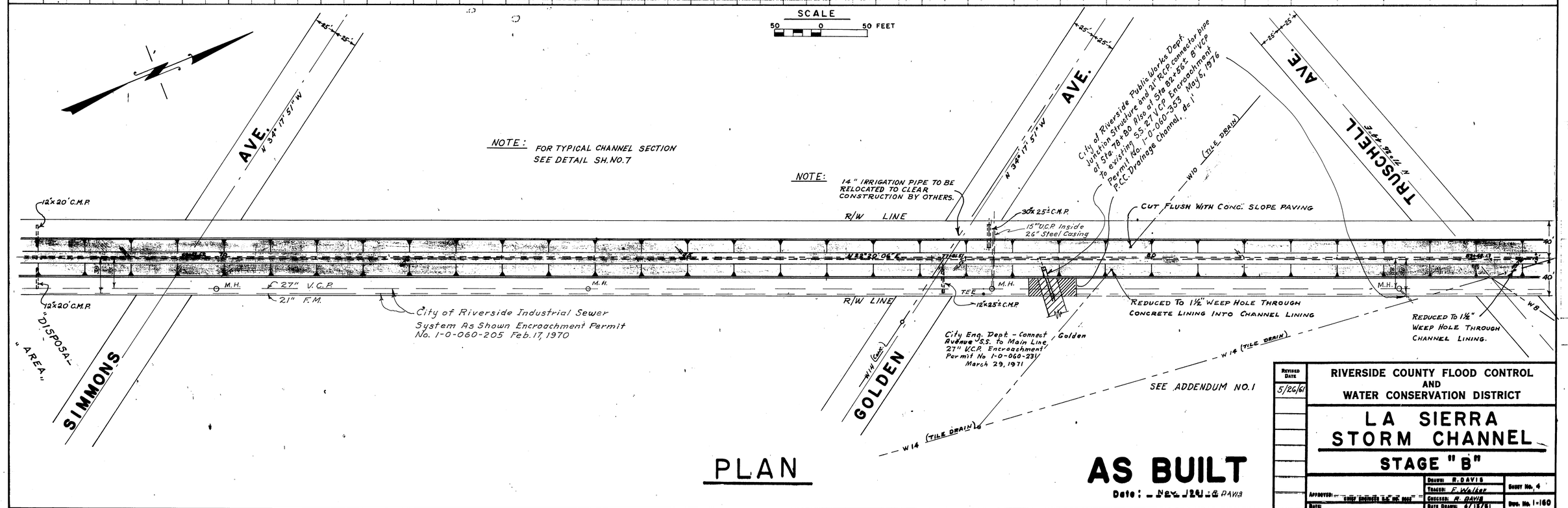
REVISED DATE	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5/22/71	LA SIERRA STORM CHANNEL STAGE "B"

APPROVED: CHIEF ENGINEER R.C. FC. & WCD.
DATE:
DRAWN: R. DAVIS
TRACED: F. Walker
CHECKED: R. DAVIS
DATE DRAWN: APRIL 1967
SHEET No. 3
DWG. No. 1-160

PROJECT NO. 1-0-060

D-173 B





AS BUILT

Date: Nov. 1961 R. DAVIS

Revised Date	
5/26/61	

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

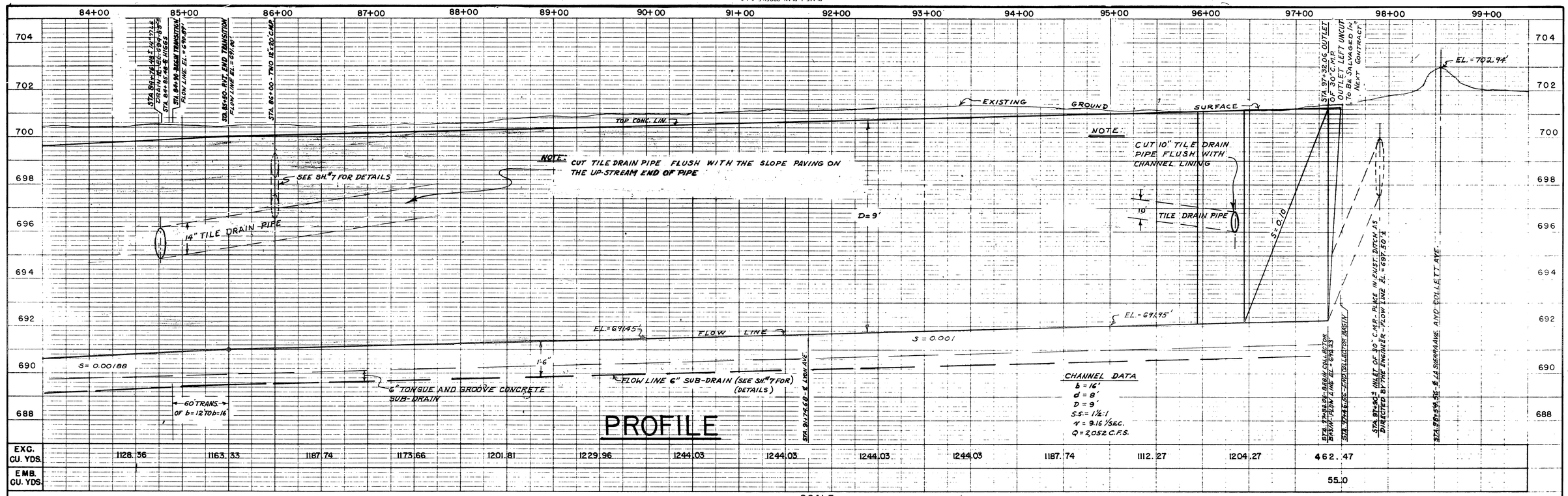
LA SIERRA STORM CHANNEL

STAGE "B"

Approved:	Drawn: R. DAVIS	Sheet No. 4
	Traced: F. Walker	
Date	Checked: R. DAVIS	Dwg. No. 1-160
	Date Drawn: 8/13/61	

PROJECT NO. 1-0-060

D-173 B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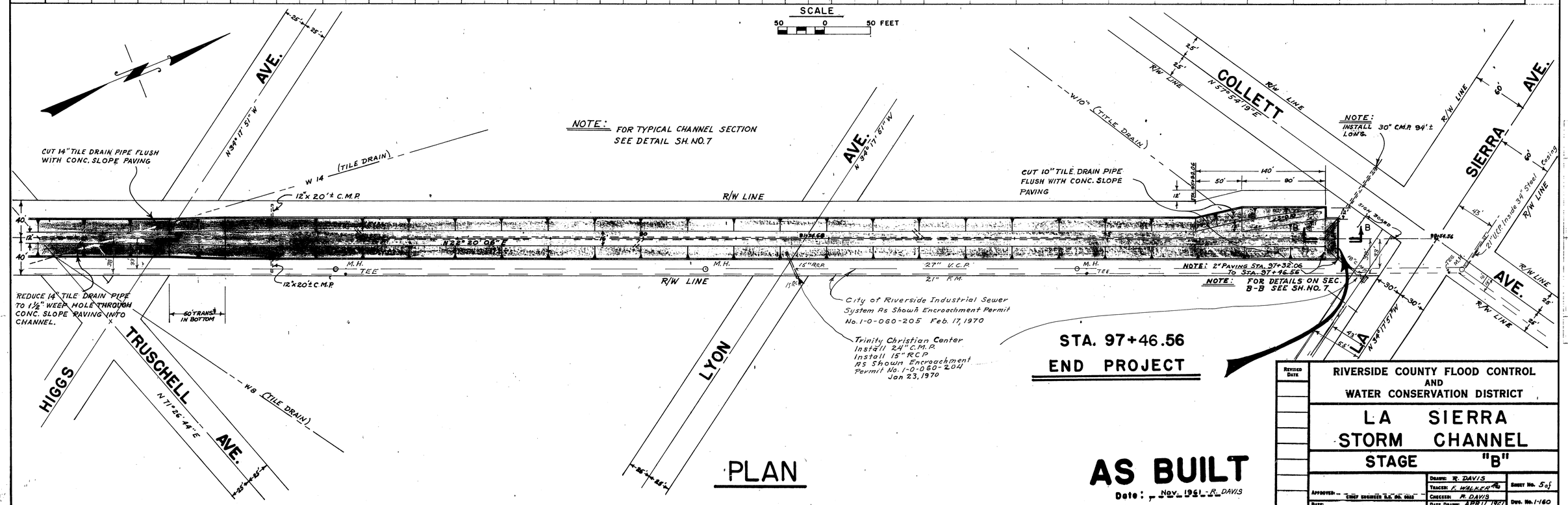
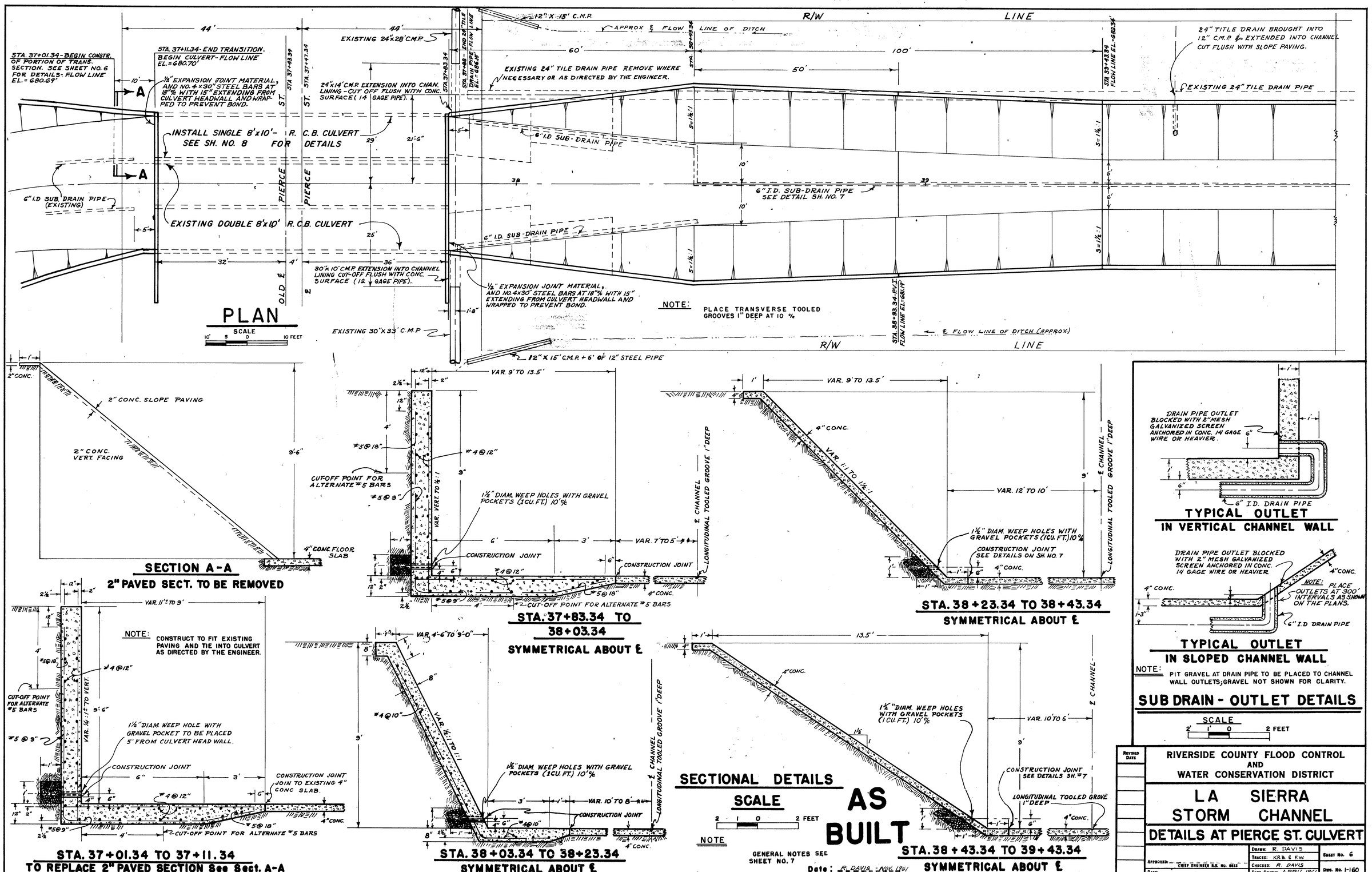
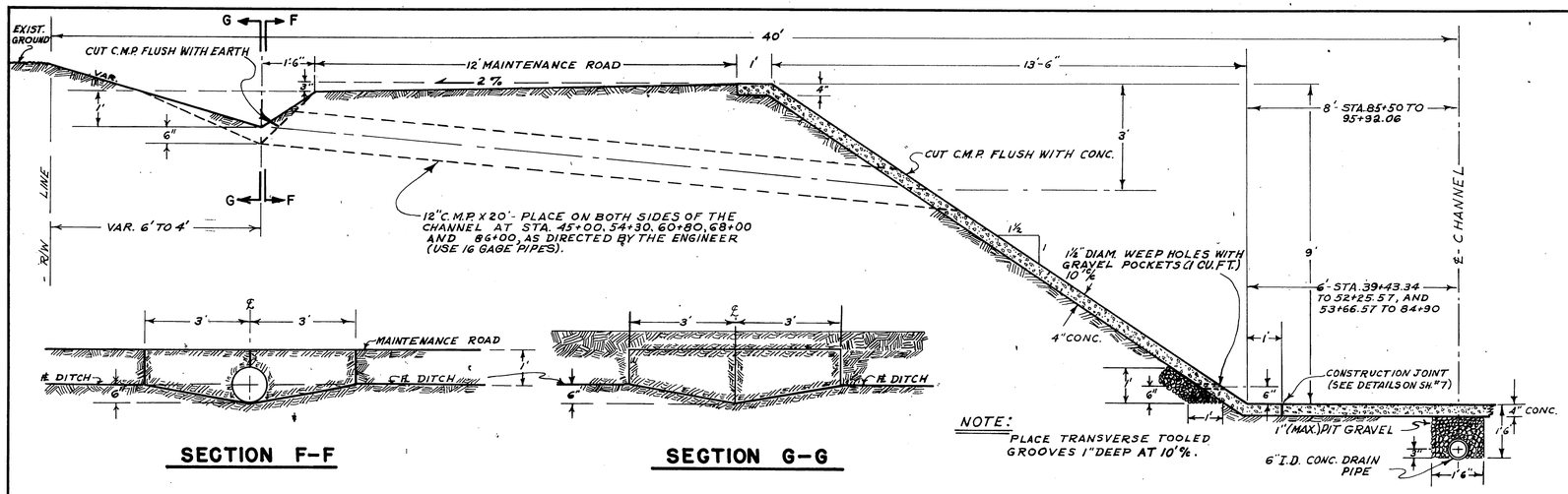
84+00
85+00
86+00
87+00
88+00
89+00
90+00
91+00
92+00
93+00
94+00
95+00
96+00
97+00
98+00
99+00
704
702
700
698
696
694
692
690
688
STA. 84+74.74 = 2+41.77 L
STA. 84+74.74 = 2+58.23 R
STA. 84+85.40 = 8 HIGGS
STA. 84+99 BEGIN TRANSITION
FLOW LINE EL. = 690.87'
STA. 85+50 - END TRANSITION
FLOW LINE EL. = 691.40'
STA. 86+00 - TWO 18"x20' C.M.P.
SEE SH. #7 FOR DETAILS
14" TILE DRAIN PIPE
NOTE: CUT TILE DRAIN PIPE FLUSH WITH THE SLOPE PAVING ON THE UP-STREAM END OF PIPE
TOP CONC. LIN.
EXISTING GROUND SURFACE
NOTE: CUT 10" TILE DRAIN PIPE FLUSH WITH CHANNEL LINING
10'
TILE DRAIN PIPE
S = 0.10
D = 9'
EL. = 691.45'
FLOW LINE
S = 0.0001
S = 0.00188
1'-6"
6" TONGUE AND GROOVE CONCRETE SUB-DRAIN
FLOW LINE 6" SUB-DRAIN (SEE SH. #7 FOR DETAILS)
60' TRANS. OF b = 12' TO b = 16'
STA. 91+74.68 = 8 LYON AVE.
CHANNEL DATA
b = 16'
d = 8'
D = 9'
S.S. = 1½:1
V = 9.16'/SEC.
Q = 2,052 C.F.S.
STA. 97+32.06 OUTLET OF 30" C.M.P. OUTLET LEFT UNCUT, TO BE SALVAGED IN NEXT CONTRACT.
EL. = 702.94'
STA. 97+32.06 - BEGIN COLLECTOR BASIN - FLOW LINE EL. = 694.33
STA. 97+46.56 - END COLLECTOR BASIN
STA. 97+30.0 - INLET OF 30" C.M.P. - PLACE IN EXIST. DITCH AS DIRECTED BY THE ENGINEER - FLOW LINE EL. = 697.50
STA. 98+59.56 = 8 LA SIERRA AVE. AND COLLETT AVE.
EXC. CU. YDS.
1128.36
1163.33
1187.74
1173.66
1201.81
1229.96
1244.03
1244.03
1244.03
1244.03
1187.74
1112.27
1204.27
462.47
EMB. CU. YDS.
55.0

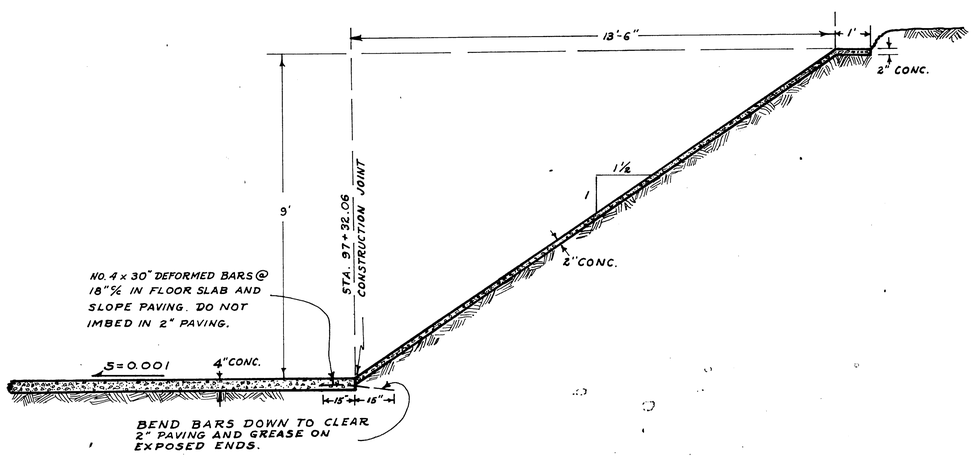

SCALE
50 0 50 FEET
AVE.
N 34°17' 51" W
W 14 (TILE DRAIN)
CUT 14" TILE DRAIN PIPE FLUSH WITH CONC. SLOPE PAVING
12"x 20' ± C.M.P.
NOTE: FOR TYPICAL CHANNEL SECTION SEE DETAIL SH. NO. 7
R/W LINE
N 22° 20' 06" E
M.H.
TEE
15" RCP
27" V.C.P.
21" R.M.
R/W LINE
REDUCE 14" TILE DRAIN PIPE TO 1½" WEEP HOLE THROUGH CONC. SLOPE PAVING INTO CHANNEL.
60' TRANS. IN BOTTOM
HIGGS
TRUSCHELL
AVE.
N 71° 26' 49" E
W 8 (TILE DRAIN)
LYON
City of Riverside Industrial Sewer System As Shown Encroachment Permit No. 1-0-060-205 Feb. 17, 1970
Trinity Christian Center Install 24" C.M.P. Install 15" RCP As Shown Encroachment Permit No. 1-0-060-204 Jan 23, 1970
STA. 97+46.56
END PROJECT
W 10" (TILE DRAIN)
CUT 10" TILE DRAIN PIPE FLUSH WITH CONC. SLOPE PAVING
140'
50'
90'
SHOW BOARD
NOTE: 2" PAVING STA. 97+32.06 TO STA. 97+46.56
NOTE: FOR DETAILS ON SEC. B-B SEE SH. NO. 7
COLLETT
N 57° 54' 19" E
R/W LINE
NOTE: INSTALL 30" C.M.P. 94' ± LONG.
SIERRA
AVE.
21" U.C.P. Inside 3/4" Steel Casing
LA
N 34° 17' 51" W
PLAN
AS BUILT
Date: Nov. 1961 R. DAVIS
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
LA SIERRA STORM CHANNEL
STAGE "B"
Drawn: R. DAVIS
Tracer: F. WALKER
Checker: R. DAVIS
Date Drawn: APRIL 1961
Sheet No. 5 of
Dwg. No. 1-160
Approved: Chief Engineer R.E. No. 0655
Date:
Revised Date
PROJECT NO. 1-0-060
D-173 B


PLAN
SCALE
10' 5 0 10 FEET
STA. 37+01.34 - BEGIN CONSTR. OF PORTION OF TRANS. SECTION. SEE SHEET NO. 6 FOR DETAILS - FLOW LINE EL. = 680.69'
STA. 37+11.34 - END TRANSITION. BEGIN CULVERT - FLOW LINE EL. = 680.70'
1/2" EXPANSION JOINT MATERIAL, AND NO. 4 x 30" STEEL BARS AT 18" % WITH 15" EXTENDING FROM CULVERT HEADWALL AND WRAPPED TO PREVENT BOND.
INSTALL SINGLE 8'x10' R.C.B. CULVERT SEE SH. NO. 8 FOR DETAILS
EXISTING DOUBLE 8'x10' R.C.B. CULVERT
6" I.D. SUB. DRAIN PIPE (EXISTING)
EXISTING 24"x28' C.M.P.
24"x14' C.M.P. EXTENSION INTO CHAN. LINING - CUT OFF FLUSH WITH CONC. SURFACE (14 GAGE PIPE).
30"x10' C.M.P. EXTENSION INTO CHANNEL LINING CUT-OFF FLUSH WITH CONC. SURFACE (12 GAGE PIPE).
EXISTING 30"x33' C.M.P.
12"x15' C.M.P.
12"x15' C.M.P. + 6' OF 12" STEEL PIPE
OLD ℄ PIERCE ST.
STA. 37+43.34
STA. 37+47.34
STA. 37+83.34
STA. 37+88 - END ℄ TILE
STA. 38+03.34 - FLOW LINE EL. = 680.95'
STA. 38+43.34
STA. 38+48.34
STA. 38+93.34 - P.V.T. FLOW LINE EL. = 681.17'
STA. 39+43.34 FLOW LINE EL. = 680.34'
R/W LINE
APPROX ℄ FLOW LINE OF DITCH
EXISTING 24" TILE DRAIN PIPE REMOVE WHERE NECESSARY OR AS DIRECTED BY THE ENGINEER.
24" TITLE DRAIN BROUGHT INTO 12" C.M.P & EXTENDED INTO CHANNEL CUT FLUSH WITH SLOPE PAVING.
EXISTING 24" TILE DRAIN PIPE
6" I.D. SUB-DRAIN PIPE
6" I.D. SUB-DRAIN PIPE SEE DETAIL SH. NO. 7
S = 1 1/2 : 1
NOTE: PLACE TRANSVERSE TOOLED GROOVES 1" DEEP AT 10 %
℄ FLOW LINE OF DITCH (APPROX.)
SECTION A-A
2" PAVED SECT. TO BE REMOVED
2" CONC. SLOPE PAVING
2" CONC. VERT. FACING
4" CONC. FLOOR SLAB
STA. 37+01.34 TO 37+11.34
TO REPLACE 2" PAVED SECTION See Sect. A-A
NOTE: CONSTRUCT TO FIT EXISTING PAVING AND TIE INTO CULVERT AS DIRECTED BY THE ENGINEER.
CUT-OFF POINT FOR ALTERNATE #5 BARS
1 1/2" DIAM. WEEP HOLE WITH GRAVEL POCKET TO BE PLACED 5' FROM CULVERT HEAD WALL.
CONSTRUCTION JOINT
CONSTRUCTION JOIN TO EXISTING 4" CONC SLAB.
STA. 37+83.34 TO 38+03.34
SYMMETRICAL ABOUT ℄
1 1/2" DIAM. WEEP HOLES, WITH GRAVEL POCKETS (1CU. FT.) 10 %
℄ CHANNEL - LONGITUDINAL TOOLED GROOVE 1" DEEP
STA. 38+03.34 TO 38+23.34
SYMMETRICAL ABOUT ℄
STA. 38+23.34 TO 38+43.34
SYMMETRICAL ABOUT ℄
1 1/2" DIAM. WEEP HOLES WITH GRAVEL POCKETS (1CU. FT.) 10 %
CONSTRUCTION JOINT SEE DETAILS ON SH. NO. 7
STA. 38+43.34 TO 39+43.34
SYMMETRICAL ABOUT ℄
LONGITUDINAL TOOLED GROVE 1" DEEP
DRAIN PIPE OUTLET BLOCKED WITH 2" MESH GALVANIZED SCREEN ANCHORED IN CONC. 14 GAGE WIRE OR HEAVIER.
6" I.D. DRAIN PIPE
TYPICAL OUTLET
IN VERTICAL CHANNEL WALL
DRAIN PIPE OUTLET BLOCKED WITH 2" MESH GALVANIZED SCREEN ANCHORED IN CONC. 14 GAGE WIRE OR HEAVIER.
NOTE: PLACE OUTLETS AT 300' INTERVALS AS SHOWN ON THE PLANS.
TYPICAL OUTLET
IN SLOPED CHANNEL WALL
NOTE: PIT GRAVEL AT DRAIN PIPE TO BE PLACED TO CHANNEL WALL OUTLETS; GRAVEL NOT SHOWN FOR CLARITY.
SUB DRAIN - OUTLET DETAILS
SCALE
2' 1' 0 2 FEET
SECTIONAL DETAILS
SCALE
2 1 0 2 FEET
NOTE
GENERAL NOTES SEE SHEET NO. 7
AS BUILT
Date: R. DAVIS NOV. 1961
REVISED DATE
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
LA SIERRA STORM CHANNEL
DETAILS AT PIERCE ST. CULVERT
DRAWN: R. DAVIS
TRACED: K.R.B. & F.W.
CHECKED: R. DAVIS
DATE DRAWN: APRIL 1961
SHEET NO. 6
DWG. NO. 1-160
APPROVED: CHIEF ENGINEER R.B. NO. 8888
DATE:
PROJECT NO. 1-0-060 D-173 B



TYPICAL SECTION

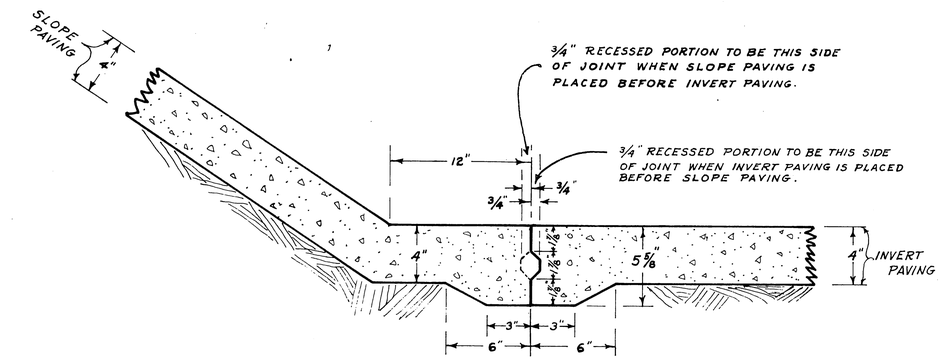
SYMMETRICAL ABOUT ℄



SECTIONAL DETAILS

SCALE

2' 1 0 2 FEET



ALTERNATE LONGITUDINAL CONSTRUCTION JOINT

SCALE

0.5' 0 0.5' 1 FOOT

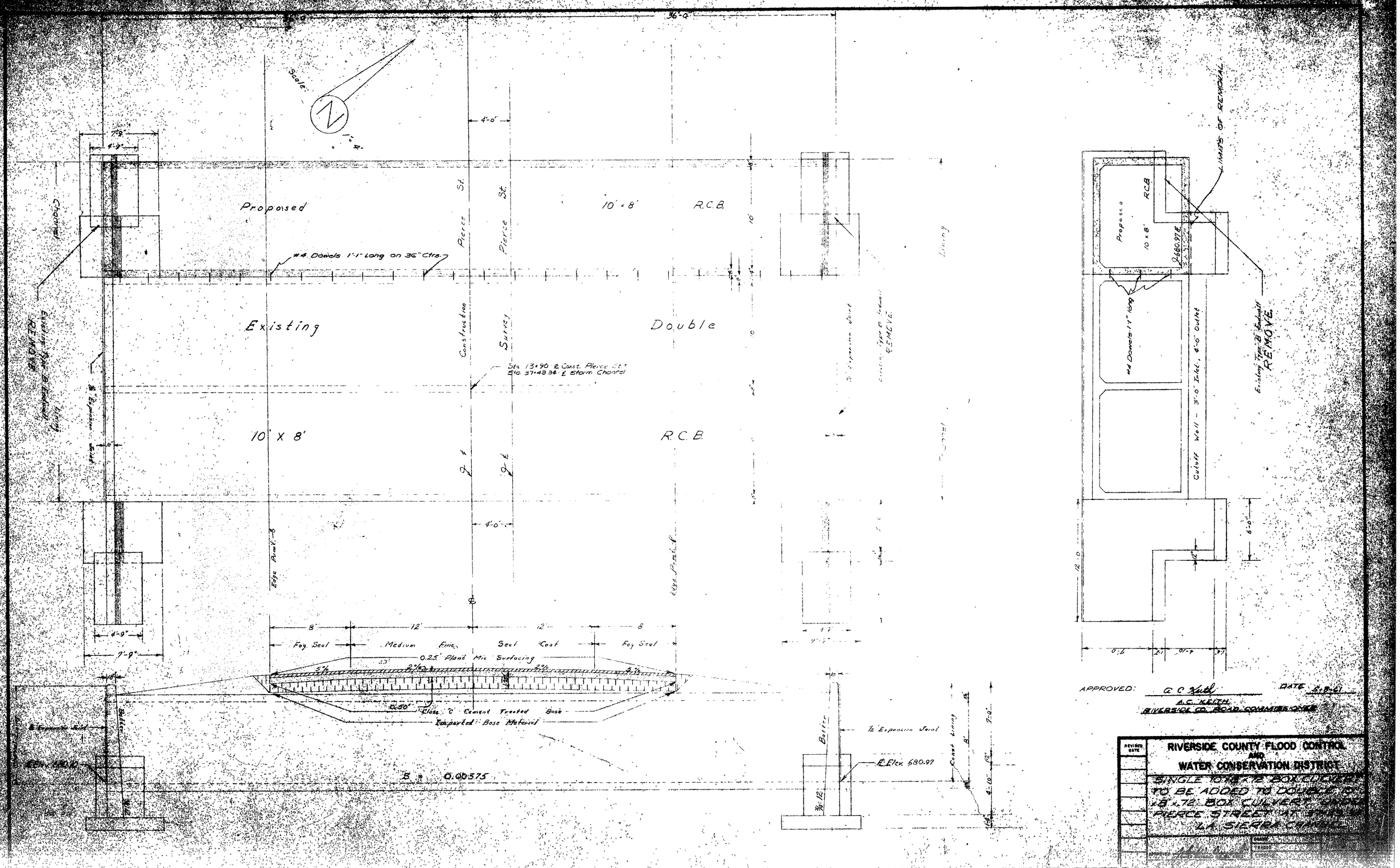
AS BUILT

Date: Nov. 1961 R. DAVIS

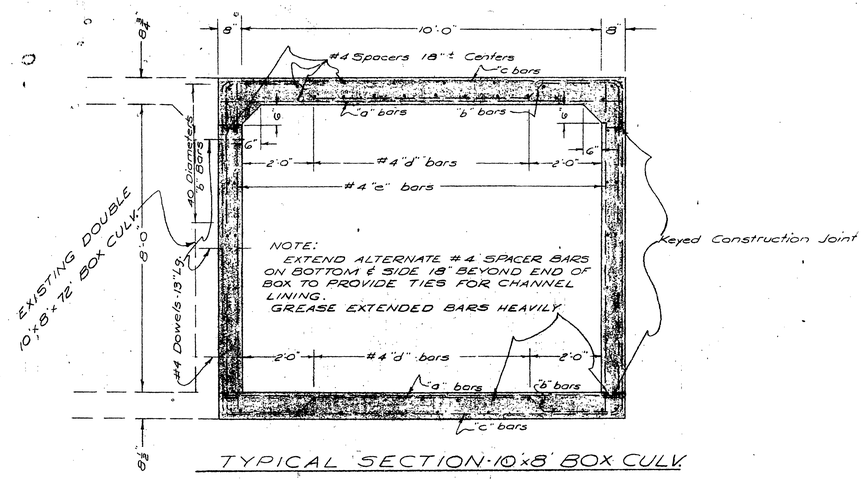
Revised Date	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	
	LA SIERRA STORM CHANNEL	
	DETAILS	
	Drawn: R. DAVIS; Traced: K.R.B.; Checked: R. DAVIS; Date Drawn: APRIL 1961	Sheet No. 7
	Approved: [signature] Chief Engineer R.E. No. 9868; Date: 5-1-61	Dwg. No. 1-160

PROJECT NO. 1-0-060

D-173 B


36'-0"
Scale
1" = 8'
4'-0"
7'-9"
4'-9"
Proposed
Pierce St.
10' x 8'
R.C.B.
#4 Dowels 1'-1" Long on 36" Ctrs.
Existing
Double
Construction
Survey
Sta. 13+90 ℄ Const. Pierce St.
Sta. 37+43.34 ℄ Storm Channel
10' X 8'
R.C.B.
Edge Pavt.
8'
12'
Fog Seal
Medium Fine Seal Coat
0.25' Plant Mix Surfacing
2%
0.50' Class 'C' Cement Treated Base
Imported Base Material
B = 0.00575
Barrier
½ Expansion Joint
℄ Elev. 680.97
Coast Lining
Existing Type 'B' Headwall REMOVE
Outlet Wall - 3'-0" Inlet, 4'-0" Outlet
#4 Dowels 1'-1" long
Limits of Removal
APPROVED: C. C. Keith
A.C. KEITH
RIVERSIDE CO. ROAD COMMISSIONER
DATE 3-8-61
REVISED DATE
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
SINGLE 10'x8' x 72' BOX CULVERT TO BE ADDED TO DOUBLE 10'x8' x 72' BOX CULVERT UNDER PIERCE STREET AT THE L.A. SIERRA CHANNEL

D-173 B



TYPICAL SECTION-10'x8' BOX CULV.

SCALE: ½" = 1'-0"

SINGLE 10'x8' REINFORCED CONCRETE BOX			
CONCRETE	TOP SLAB - THICKNESS		8¾"
	BOTTOM SLAB - THICKNESS		8½"
	SIDEWALLS - THICKNESS		8"
REINFORCING STEEL	"a" BARS	SIZE BAR #	6
		SPACING	15"
		LENGTH	11'-1"
	"b" BARS	SIZE BAR #	6
		SPACING	15"
		LENGTH	16'-4"
	"c" BARS	SIZE BAR #	6
		SPACING	15"
		LENGTH	21'-3"
	"d" DIST. BARS	TOP SLAB - NUMBER OF	8
		BOTTOM SLAB NUMBER OF	7
	"e" BARS	SPACING	18"
	SPACERS	NUMBER OF	44
NO. 4 DOWELS 1'-1" LONG - NUMBER OF			72

ESTIMATED QUANTITIES

1.	REMOVE CONCRETE	12 CU. YDS.
2.	STRUCTURE EXCAVATION	315 CU. YDS.
3.	STRUCTURE BACKFILL	25 CU. YDS
4.	CLASS "A" CONCRETE (STRUCTURE)	73 CU. YDS.
5.	BAR REINFORCING STEEL	12,500 LBS.

APPROVED: A. C. Beith DATE: 5-8-61

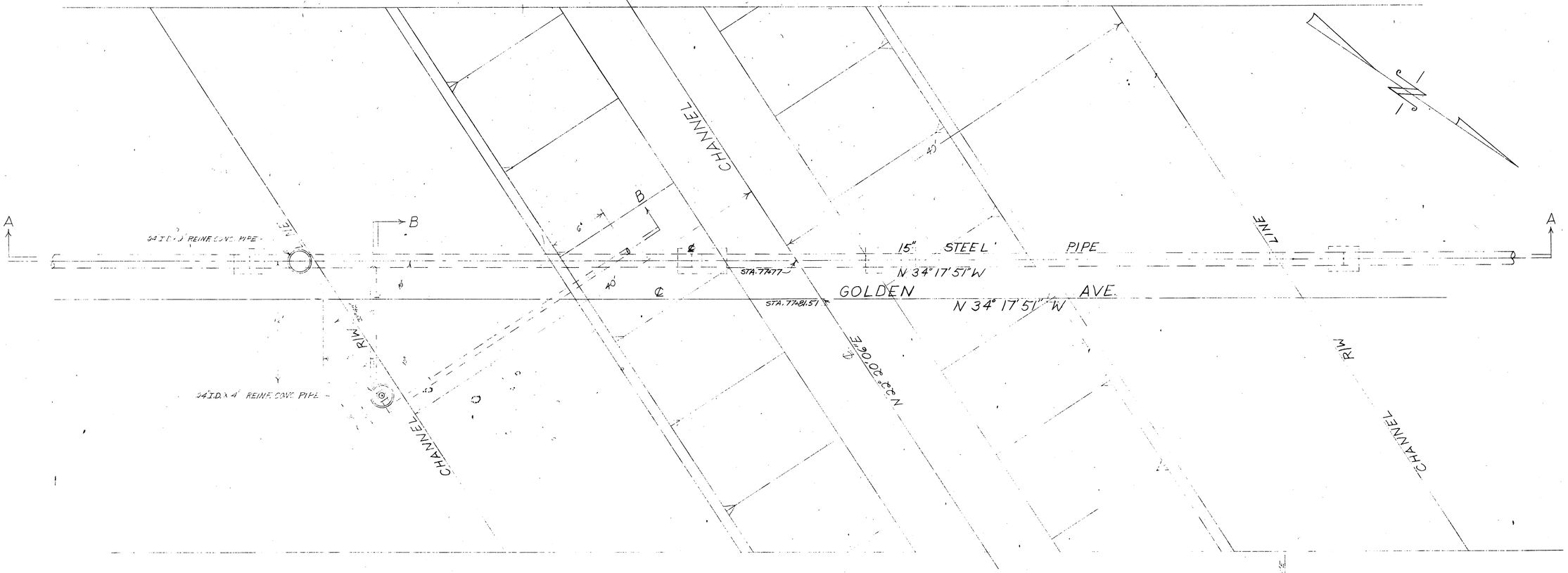
A. C. BEITH
RIVERSIDE CO. FLOOD COMM. SSIONER

REVISED DATE	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
	TYPICAL SECTION - SINGLE 10'x8' x 72' BOX CULVERT TO BE ADDED TO DOUBLE 10'x8'x 72' BOX CULVERT UNDER PIERCE ST. AT 37+43.34 LA SIERRA CHANNEL

APPROVED: John W. Bryant, CHIEF ENGINEER R.E. NO. 8822	DRAWN: E.K.S.	SHEET No. 9
	TRACED:	
	CHECKED:	DWG. No. 1-160
DATE: 5/8/61	DATE DRAWN: 4-18-61	

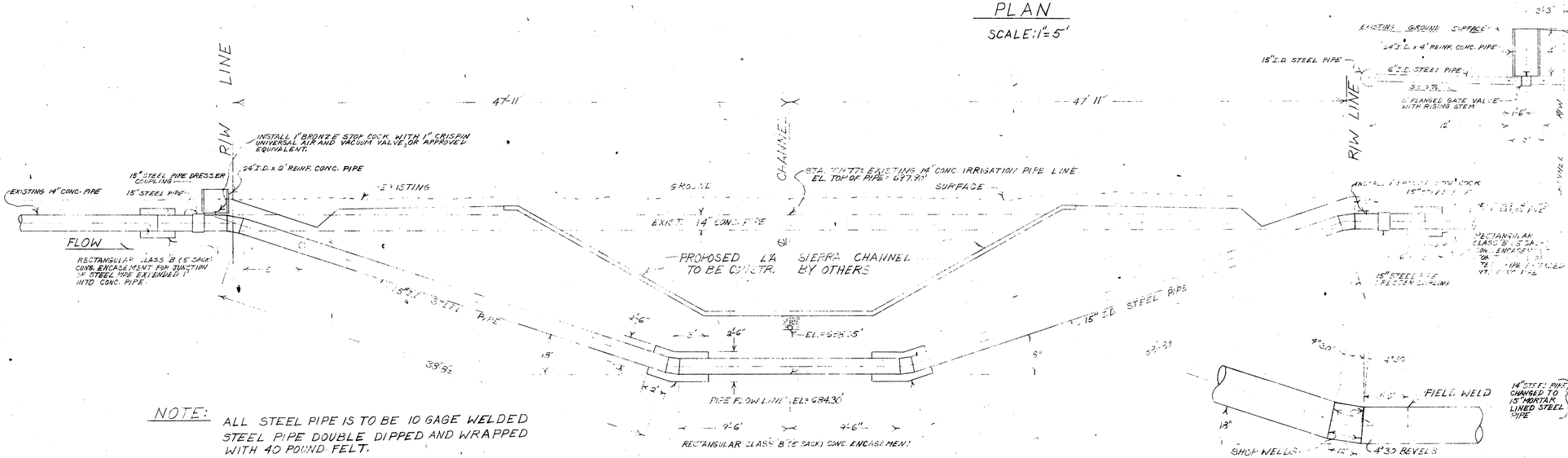
D-173 B

MISSING SHEET



PLAN

SCALE: 1" = 5'

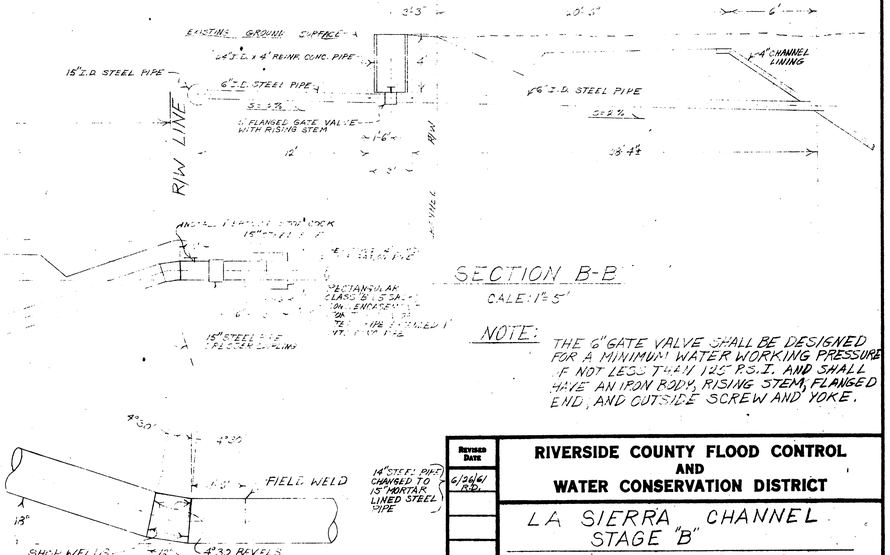


NOTE: ALL STEEL PIPE IS TO BE 10 GAGE WELDED STEEL PIPE DOUBLE DIPPED AND WRAPPED WITH 40 POUND FELT.

THE 15" STEEL PIPE IS TO BE MORTAR LINED, AND THE FINISHED I.D. IS TO BE 14" (MIN).

SECTION A-A

SCALE: 1" = 5'



TYPICAL DETAIL OF ANGLE JOINT IN STEEL PIPE

SECTION B-B

SCALE: 1" = 5'

NOTE: THE 6" GATE VALVE SHALL BE DESIGNED FOR A MINIMUM WATER WORKING PRESSURE OF NOT LESS THAN 125 P.S.I. AND SHALL HAVE AN IRON BODY, RISING STEM, FLANGED END, AND OUTSIDE SCREW AND YOKE.

REVISED DATE	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
6/26/61 R.D.	LA SIERRA CHANNEL STAGE "B"
	UTILITY RELOCATION AT GOLDEN AVE.
APPROVED:	DRAWN: R. DAVIS
	TRACED:
	CHECKED:
	DATE DRAWN: JUNE 27, 1961
	DRAWING No. 11
	DWG. No. 1-160

D-173 B