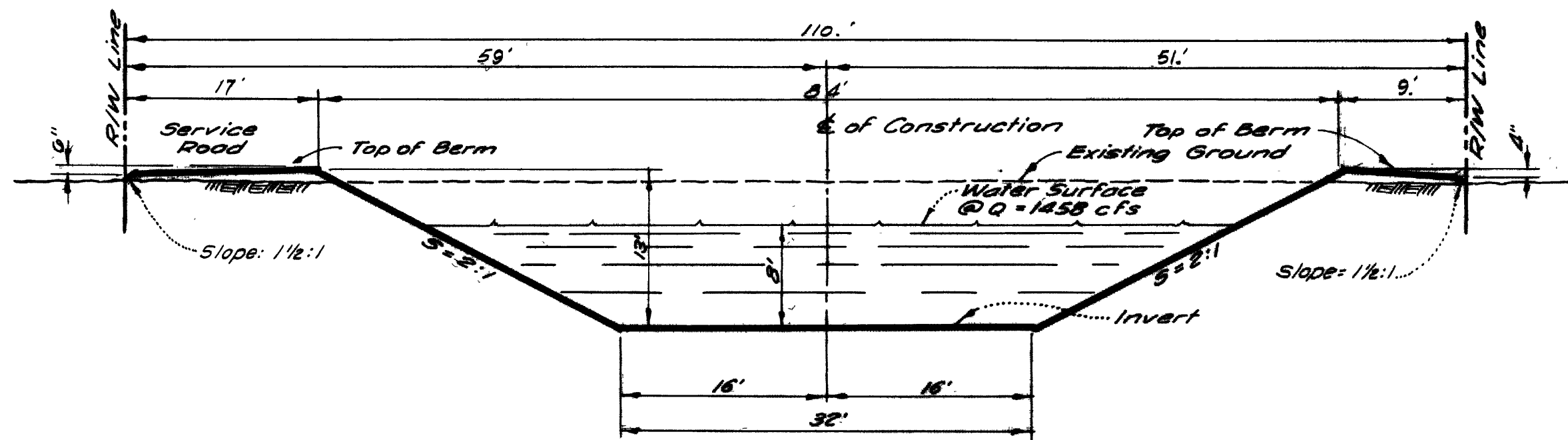
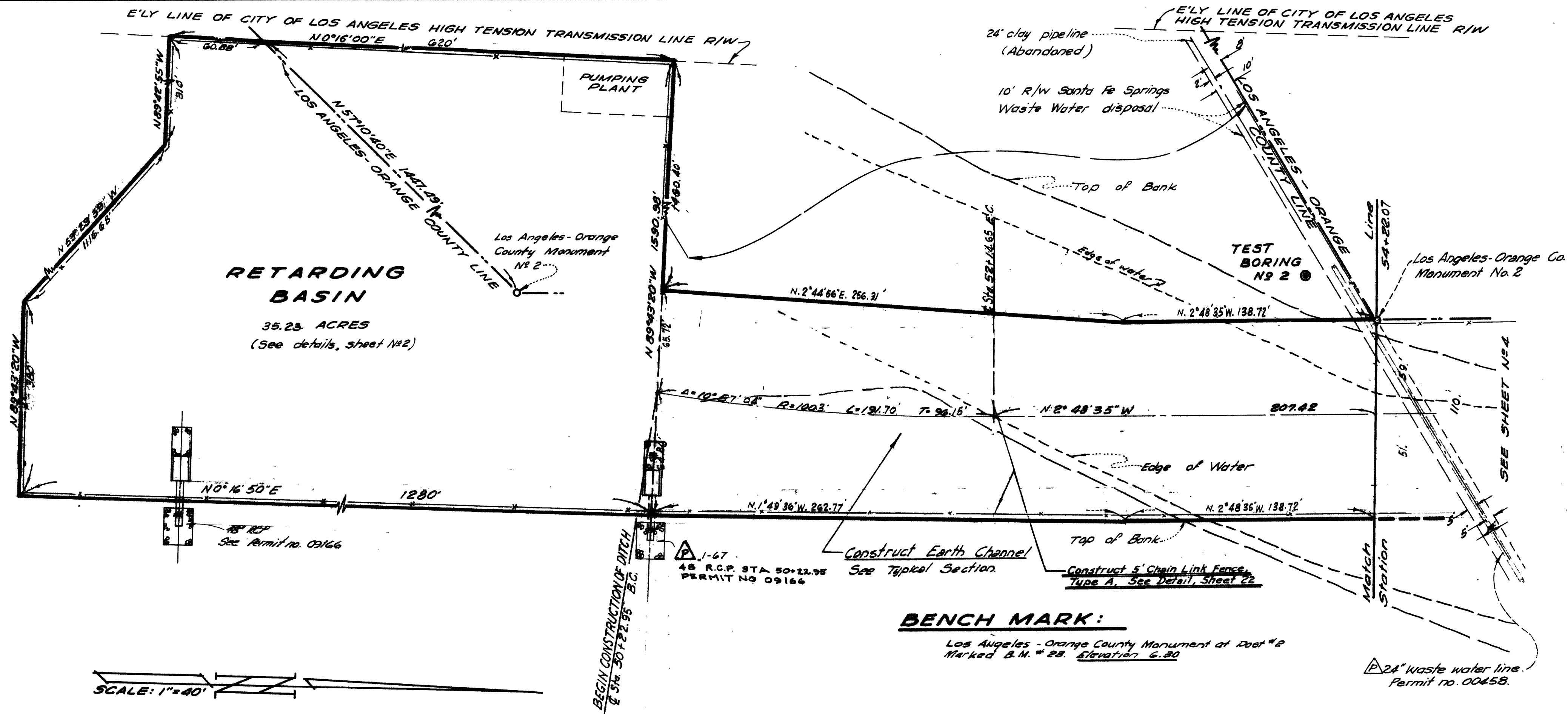




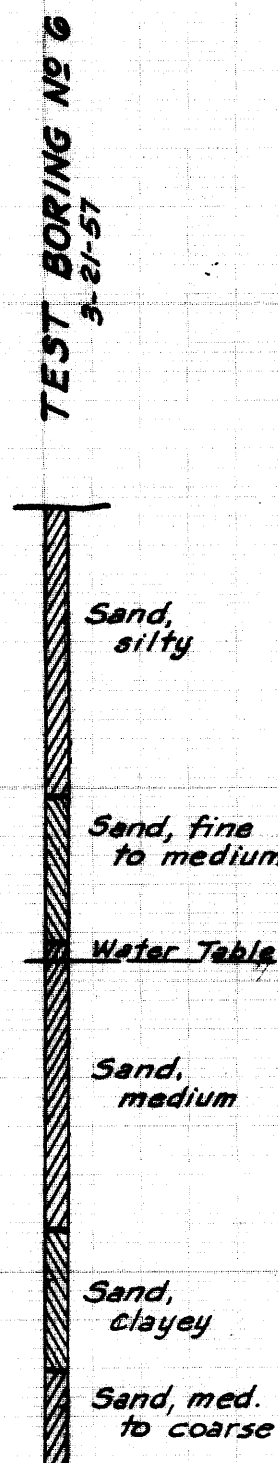
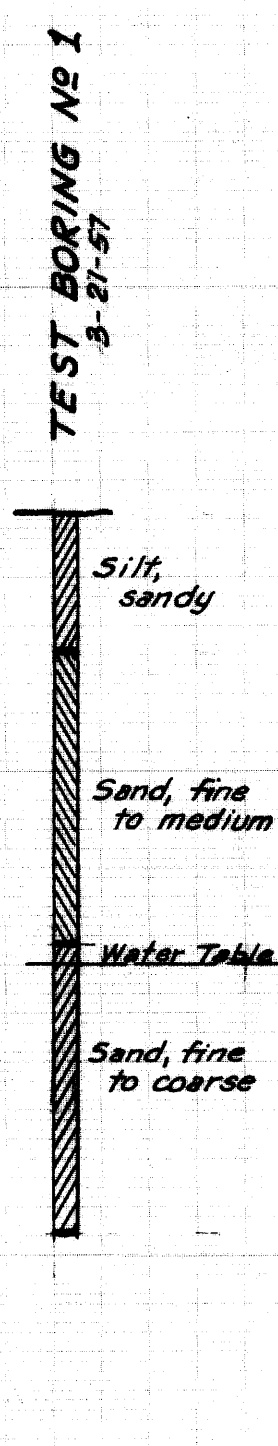
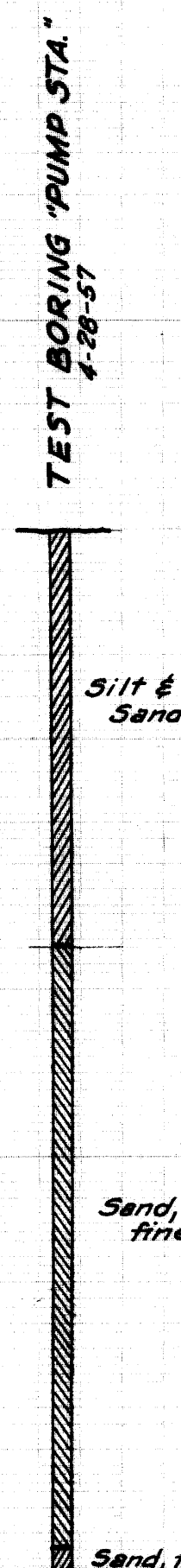
TYPICAL SECTION
LOOKING UPSTREAM FROM STA.
52+14.65 TO 57+00.00
Scale: 1"=10'

HYDRAULIC PROPERTIES

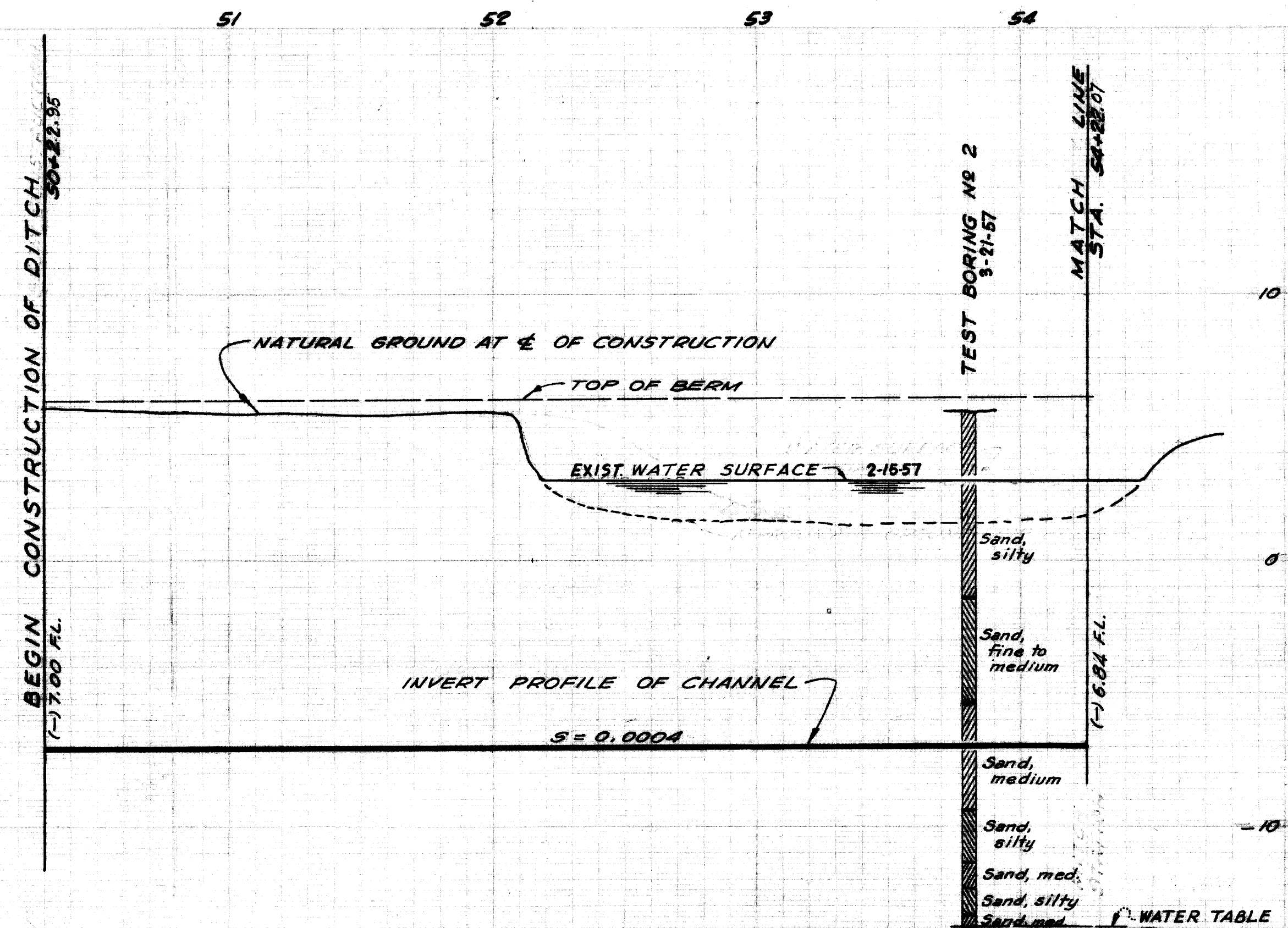
Q = 1460 cfs	r = 5.70
A = 384 sq. ft.	n = 0.025
V = 3.8 ft/sec	s = 0.0004



SCALE: 1"=40'

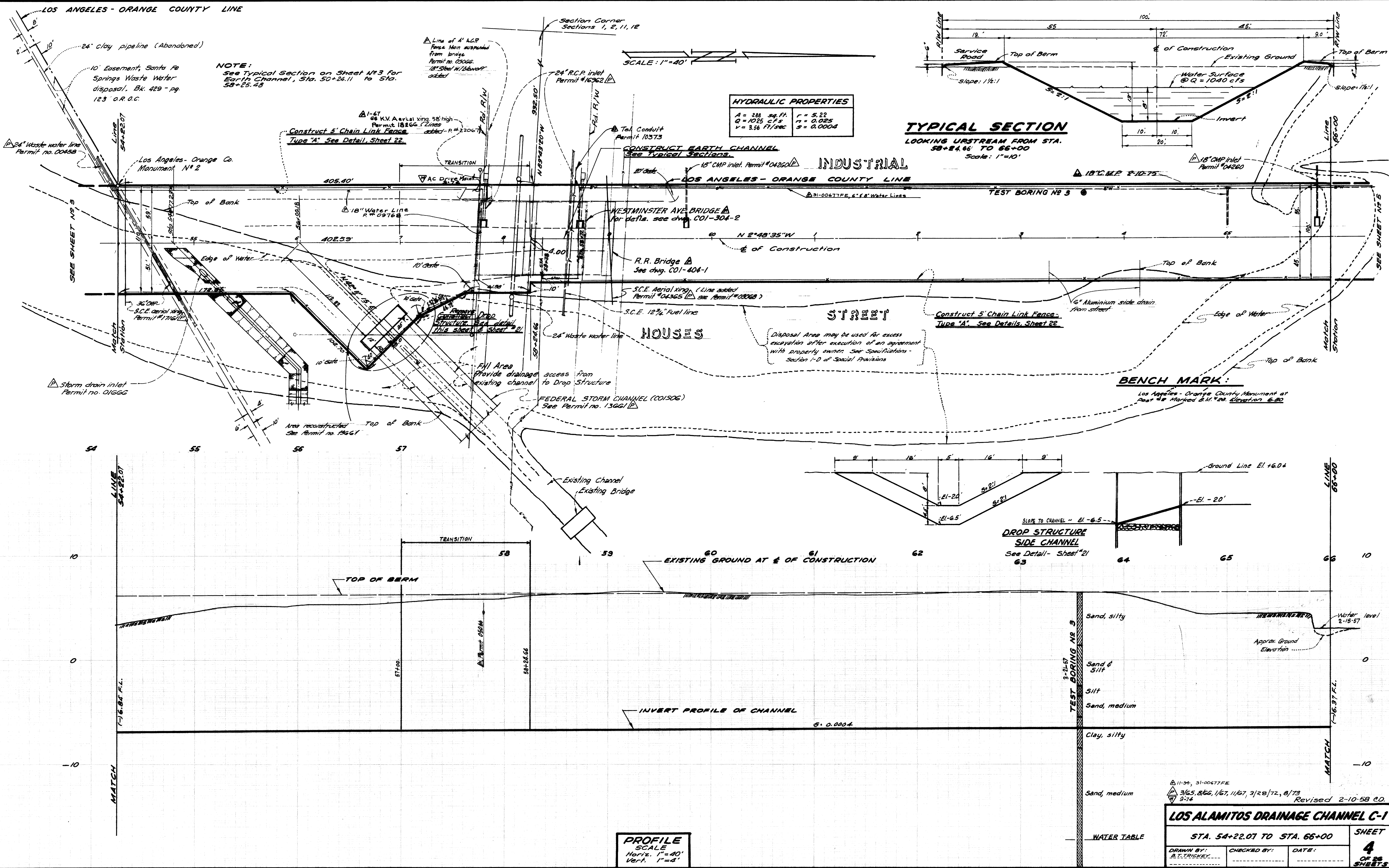


FOR LOCATIONS OF BORINGS
SEE PLAN ON SHEET NO. 2



PROFILE
SCALE
Horiz. 1"=40'
Vert. 1"=4'

REVISIONS				LOS ALAMITOS DRAINAGE CHANNEL C-1	
1-67	Permit No. 09166	STA. 50+22.95 TO STA. 54+28.07		SHEET 3 OF 26	
7-10-58	Permit No. 00458				
DRAWN BY: B.T. TRICKY		CHECKED BY:		DATE:	
S.E. N4280-D					



NOTE:
See Typical Section on Sheet No. 3 for
Earth Channel, Sta. 50+24.11 to Sta.
58+25.48

HYDRAULIC PROPERTIES	
A = 288 sq. ft.	r = 5.22
Q = 1025 cfs	n = 0.025
V = 3.56 ft/sec	S = 0.0004

TYPICAL SECTION

LOOKING UPTHEM FROM STA.
58+24.66 TO 66+00
Scale: 1"=10'

PROFILE
SCALE
Horiz. 1"=40'
Vert. 1"=4'

11-34, 31-00677FE
3/65, 8/66, 1/67, 11/67, 3/28/72, 8/73
9-74

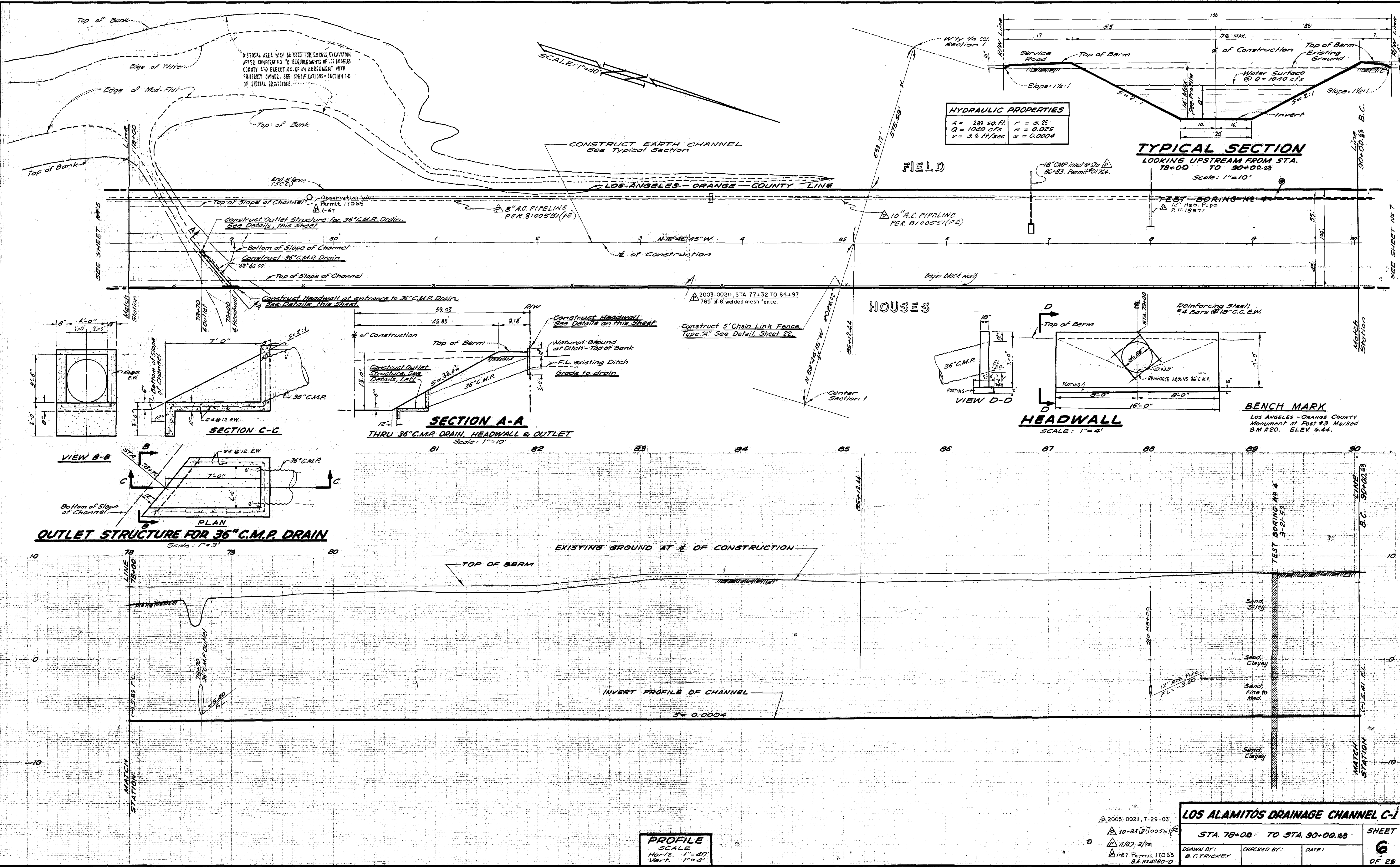
LOS ALAMITOS DRAINAGE CHANNEL C-1

STA. 54+22.07 TO STA. 66+00

DRAWN BY: B.T. TRUCKEY
CHECKED BY:
DATE:

SHEET
4
OF 26
SHEETS

C01-701-1-A



HYDRAULIC PROPERTIES			
A = 289 sq. ft.	r = 5.25		
Q = 1040 cfs	n = 0.025		
V = 3.6 ft/sec	s = 0.0004		

TYPICAL SECTION
LOOKING UPSTREAM FROM STA. 78+00 TO 90+00.63
Scale: 1"=10'

SECTION A-A
THRU 36" C.M.P. DRAIN, HEADWALL & OUTLET
Scale: 1"=10'

HEADWALL
SCALE: 1"=4'

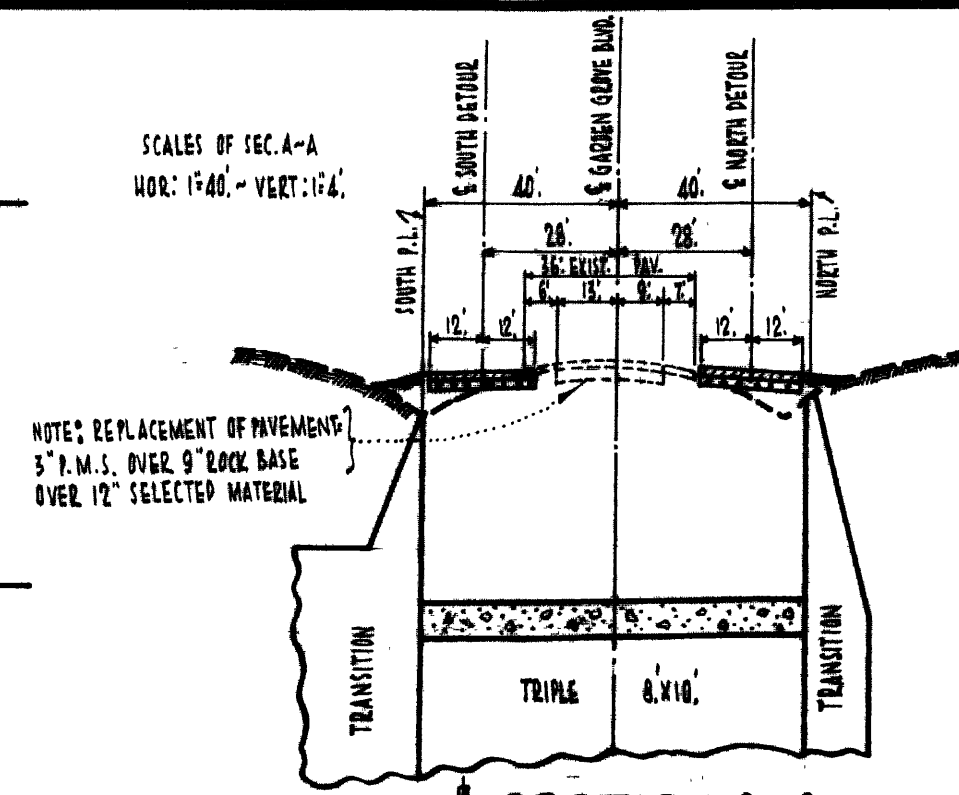
OUTLET STRUCTURE FOR 36" C.M.P. DRAIN
Scale: 1"=3'

PROFILE
SCALE
Horiz. 1"=40'
Vert. 1"=4'

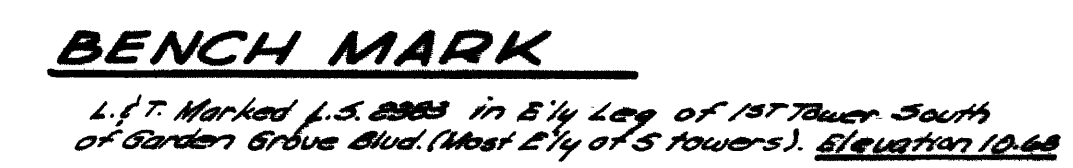
2003-00211, 7-29-03
10-83[8]0055[FE]
11/67, 3/72
1-67 Permit 17065
B.E. #4280-D

LOS ALAMITOS DRAINAGE CHANNEL C-1
STA. 78+00 TO STA. 90+00.63
DRAWN BY: B.T. TRICKEY
CHECKED BY:
DATE:

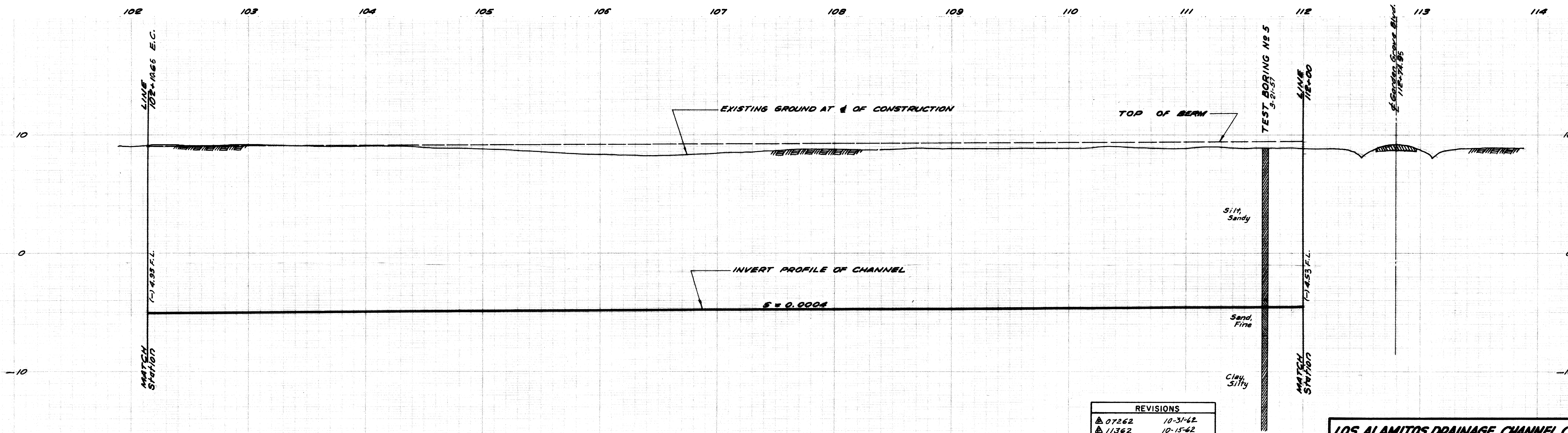
SHEET
6
OF 26



SECTION A-A

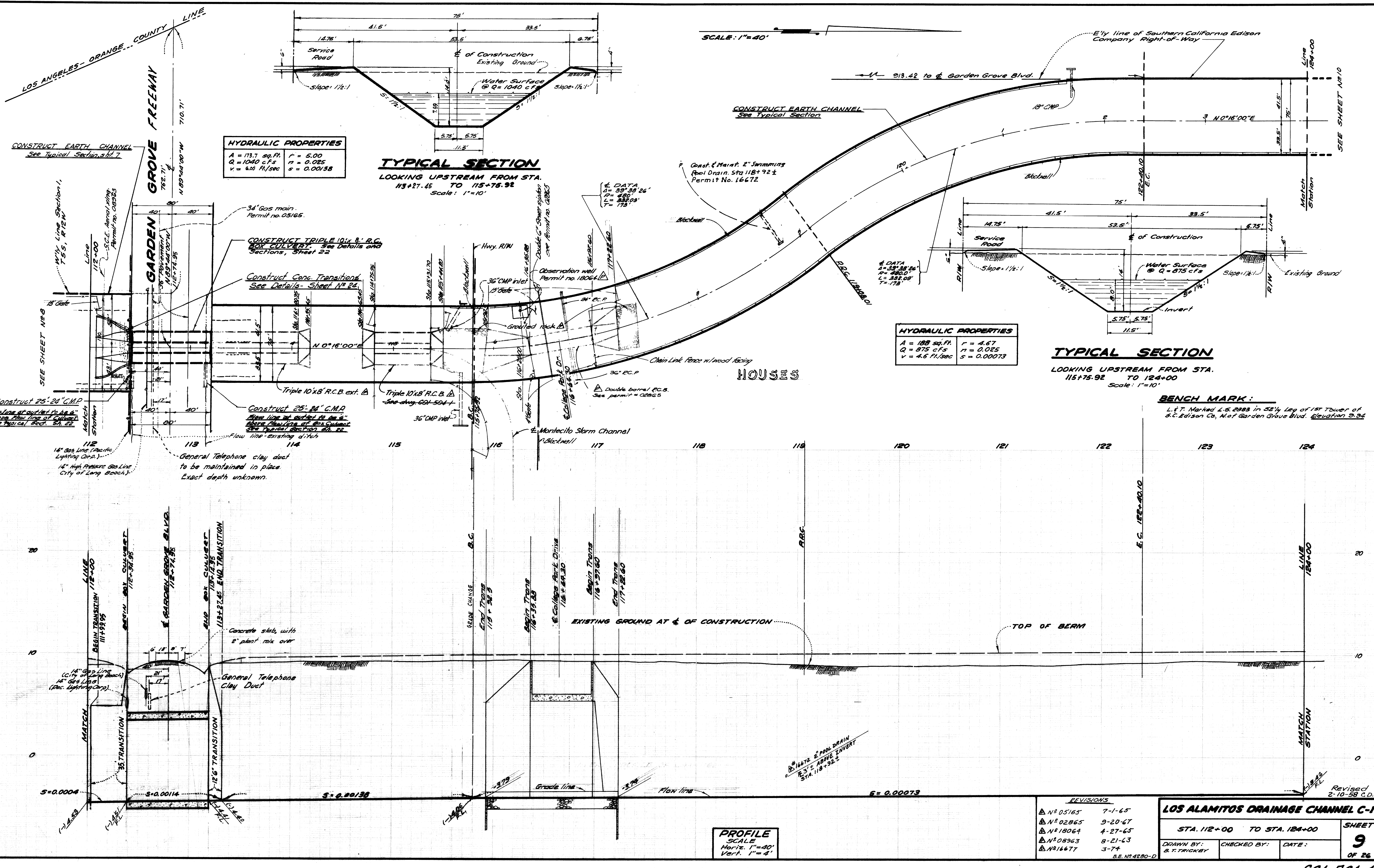


HYDRAULIC PROPERTIES	
$A = 289 \text{ sq.ft.}$	$r = 5.25$
$Q = 1040 \text{ cfs}$	$n = 0.025$
$v = 3.6 \text{ ft./sec.}$	$s = 0.0004$



REVISIONS	
△ 07262	10-31-62
△ 11362	10-15-62
△ 05465	7-9-69
△ 07766	10-17-67

LOS ALAMITOS DRAINAGE CHANNEL C-1		
STA. 102+10.05 TO STA. 112+00		SHEET
DRAWN BY: S. T. TRICKEY	CHECKED BY:	8
	DATE:	OF 26



HYDRAULIC PROPERTIES

A = 173.7 sq. ft.	r = 5.00
Q = 1040 cfs	n = 0.025
V = 6.00 ft/sec	s = 0.00138

TYPICAL SECTION
LOOKING UPSTREAM FROM STA.
113+27.45 TO 115+75.92
Scale: 1"=10'

HYDRAULIC PROPERTIES

A = 188 sq. ft.	r = 4.67
Q = 875 cfs	n = 0.025
V = 4.6 ft/sec	s = 0.00073

TYPICAL SECTION
LOOKING UPSTREAM FROM STA.
115+75.92 TO 124+00
Scale: 1"=10'

BENCH MARK:
L & T. Marked L.S. 2983 in 32 1/4" Leg of 1st Tower of
S.C. Edison Co. N. of Garden Grove Blvd. Elevation 9.94

PROFILE
SCALE
Horiz. 1"=40'
Vert. 1"=4'

REVISIONS

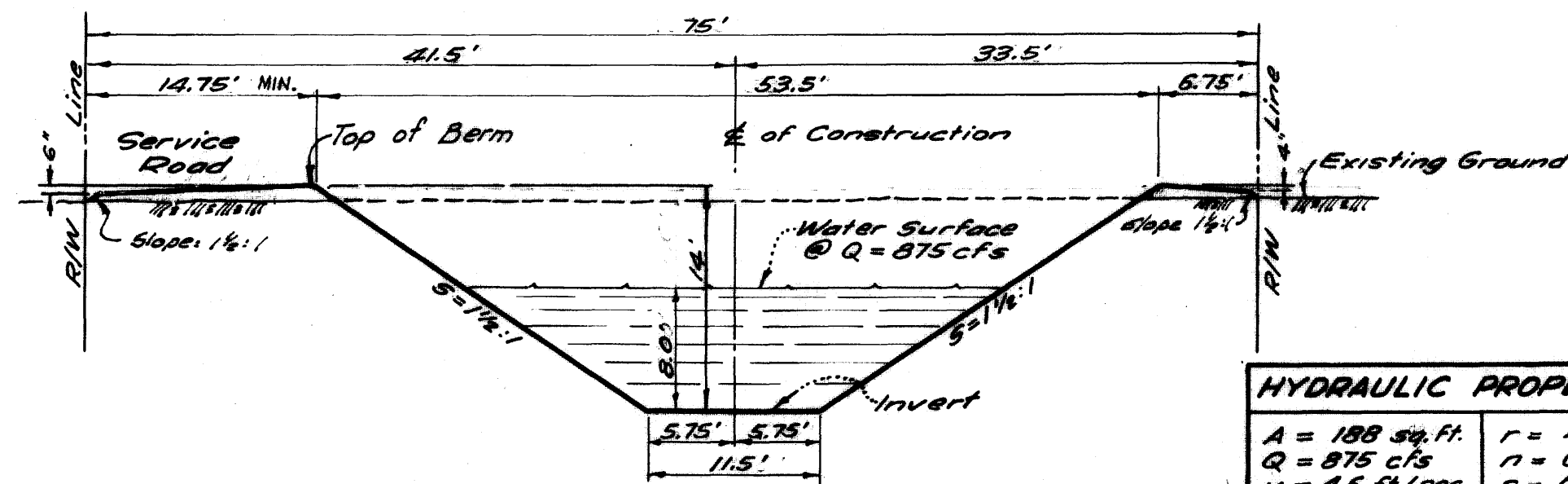
Δ N° 05165	7-1-65
Δ N° 02865	9-20-67
Δ N° 18064	4-27-65
Δ N° 08963	8-21-63
Δ N° 16677	3-74
B.E. N° 4280-D	

LOS ALAMITOS DRAINAGE CHANNEL C-1

STA. 112+00 TO STA. 124+00

DRAWN BY: B. T. TRICKBY
CHECKED BY:
DATE:

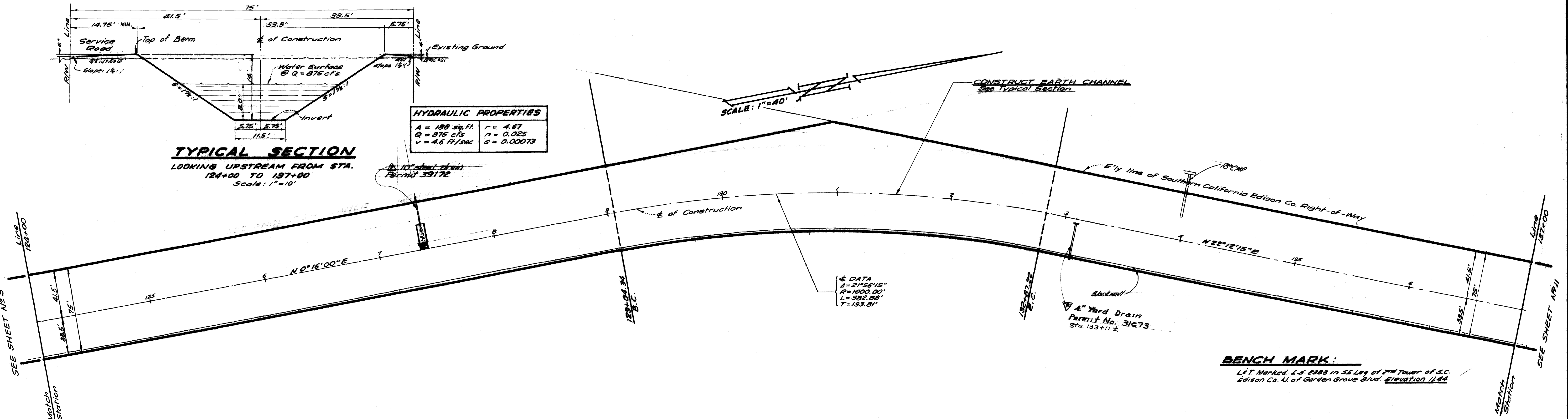
SHEET
9
OF 26



HYDRAULIC PROPERTIES			
A = 188 sq. ft.	r = 4.67		
Q = 875 cfs	n = 0.025		
V = 4.6 ft/sec	S = 0.00073		

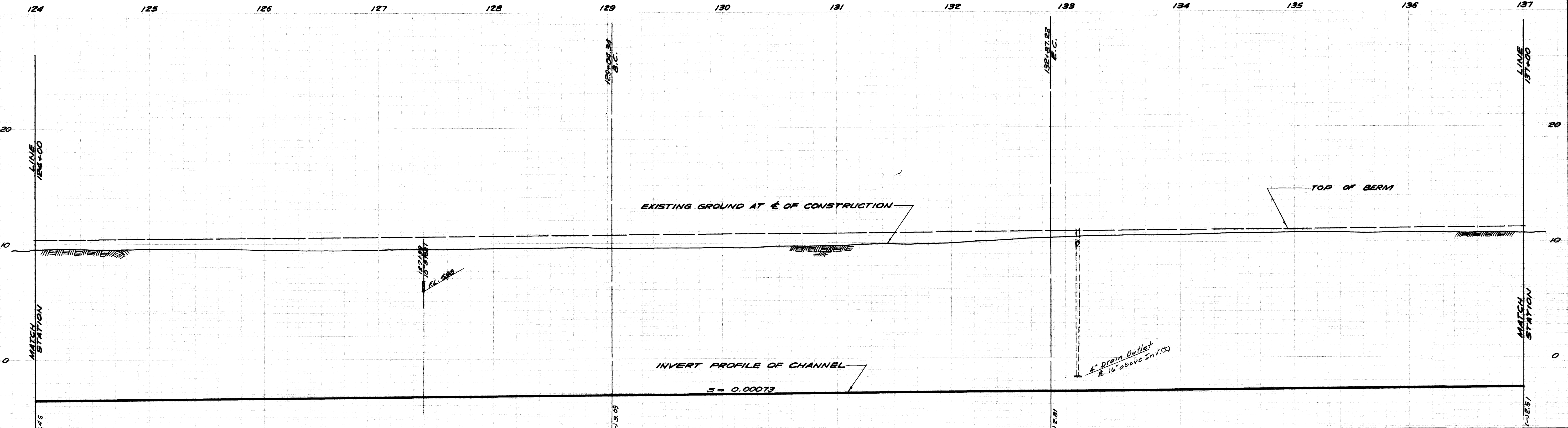
TYPICAL SECTION

LOOKING UPSTREAM FROM STA. 124+00 TO 137+00
Scale: 1"=10'



BENCH MARK:

L.T. Marked L.S. 2383 in 55' Leg of 2nd Tower of S.C. Edison Co. W. of Garden Grove Blvd. Elevation 11.44



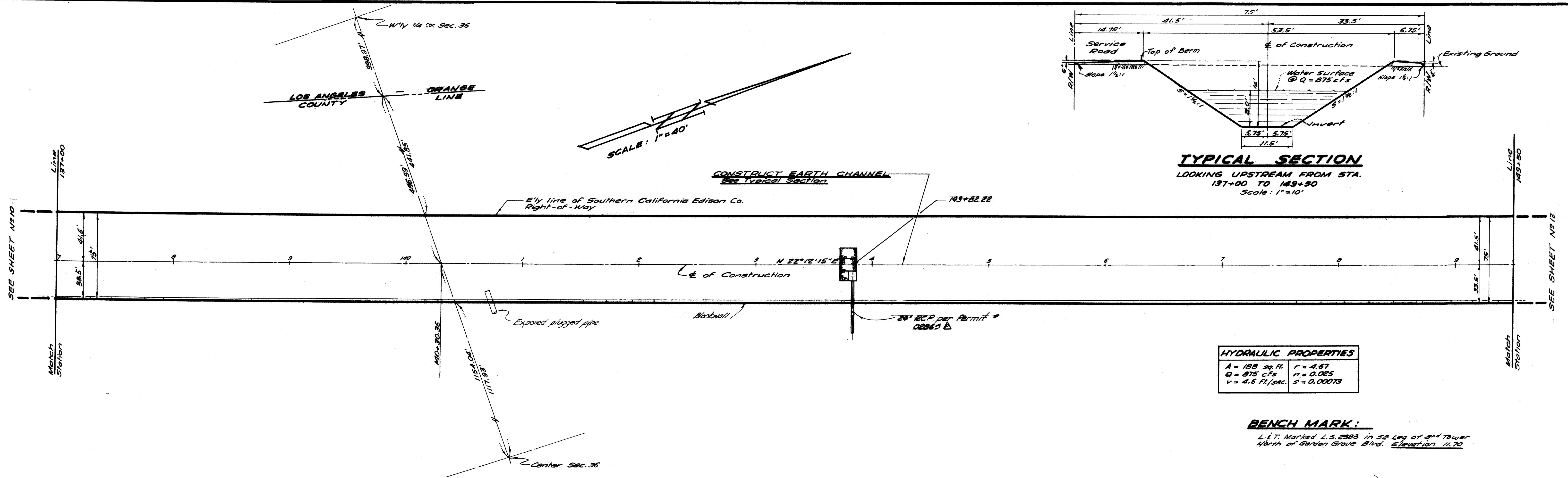
PROFILE
SCALE
Horiz. 1"=40'
Vert. 1"=4'

LOS ALAMITOS DRAINAGE CHANNEL C-1

STA. 124+00 TO STA. 137+00

SHEET

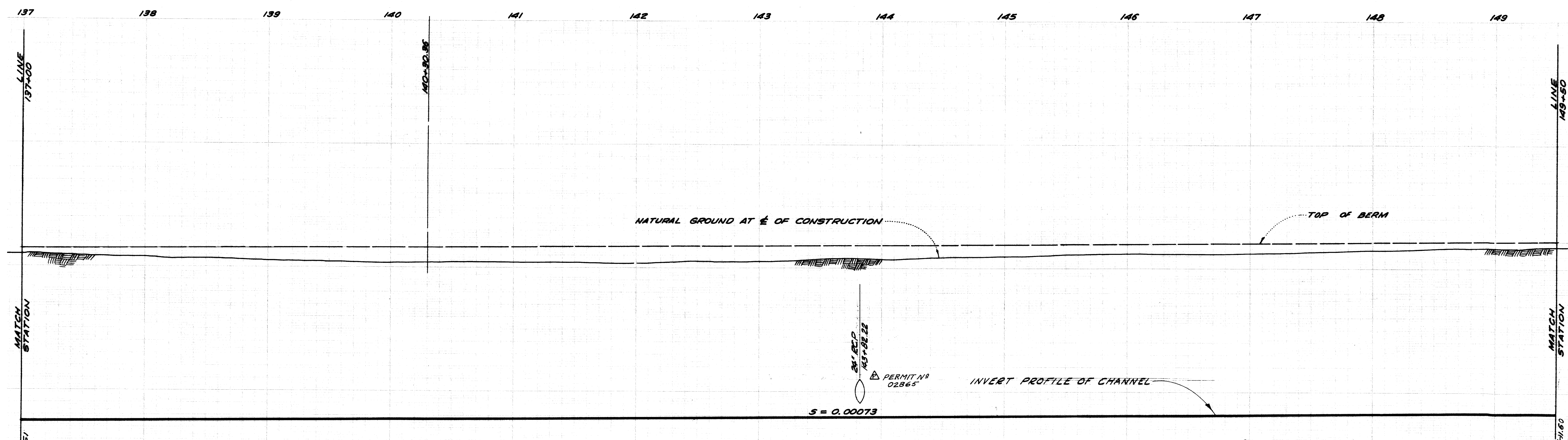
DRAWN BY: B.T. TRICKEY
CHECKED BY: DATE: 10 OF 26



TYPICAL SECTION
LOOKING UPSTREAM FROM STA. 137+00 TO 149+50
Scale: 1"=10'

HYDRAULIC PROPERTIES			
A = 188 sq. ft.	r = 4.67		
Q = 875 cfs	n = 0.025		
V = 4.6 ft./sec.	S = 0.00073		

BENCH MARK:
L & T. Marked L.S. 2893 in S.E. Leg of 3rd Tower
North of Garden Grove Blvd. Elevation 11.70



PROFILE
SCALE
Horiz. 1"=40'
Vert. 1"=2'

REVISIONS		LOS ALAMITOS DRAINAGE CHANNEL C-1	
1	Permit No. 02865 9-20-67	STA. 137+00 TO STA. 149+50	SHEET 11 OF 26
DRAWN BY: S.T. TRICKEY		CHECKED BY:	DATE:
B.E.N. 4280-D			

TYPICAL SECTION
LOOKING UPSTREAM FROM STA.
149+50 TO 158+30
Scale: 1"=10'

TYPICAL SECTION
LOOKING UPSTREAM FROM STA.
158+50 TO 162+00
Scale: 1"=10'

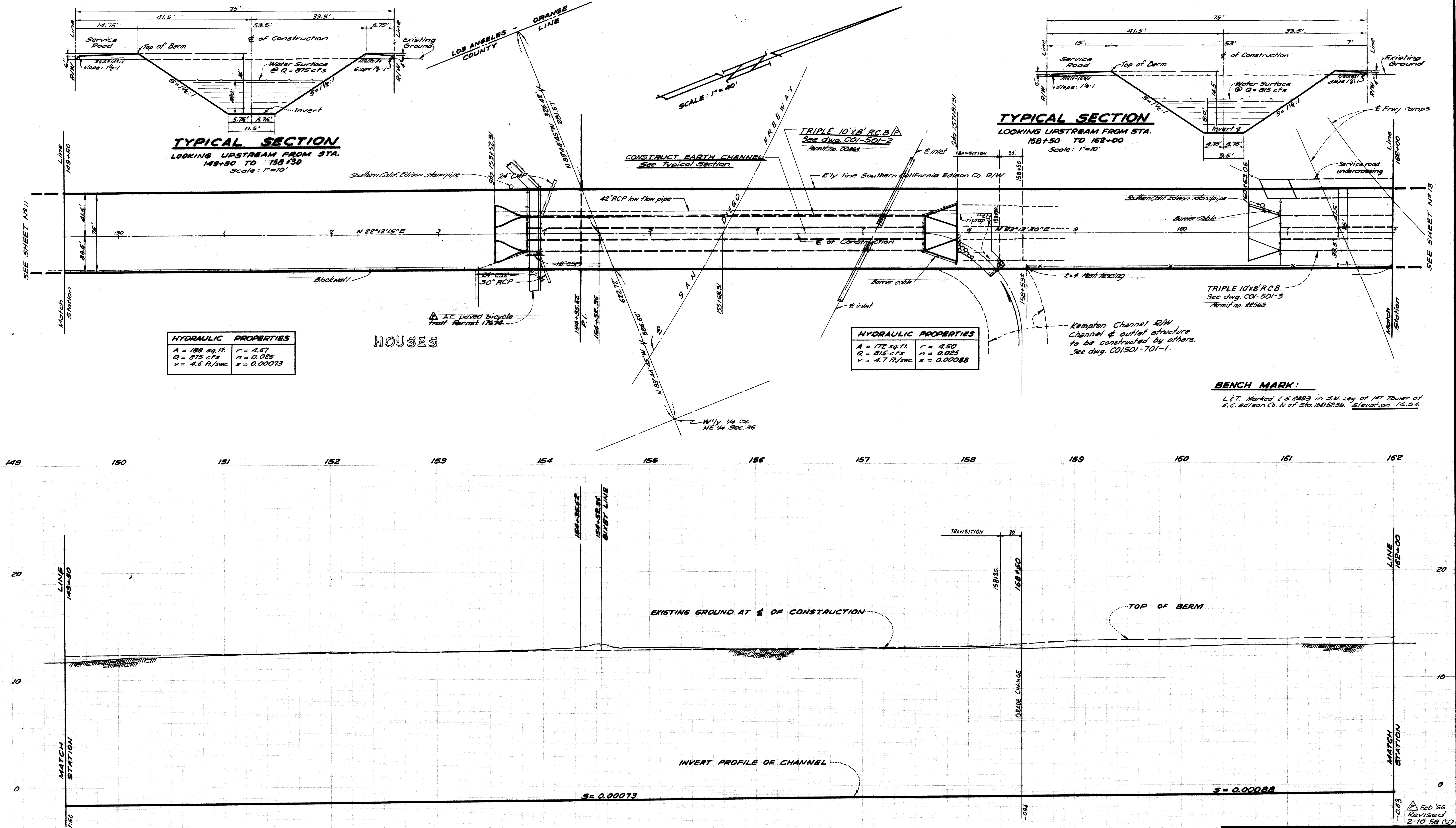
HYDRAULIC PROPERTIES	
A = 188 sq. ft.	r = 4.67
Q = 875 cfs	n = 0.025
V = 4.6 ft/sec.	s = 0.00073

HYDRAULIC PROPERTIES	
A = 172 sq. ft.	r = 4.50
Q = 815 cfs	n = 0.025
V = 4.7 ft/sec.	s = 0.00088

BENCH MARK:
L & T. Marked L.S. 2983 in S.W. Leg of 1st Tower of
S.C. Edison Co. N of Sta. 154+52.36. Elevation 14.54

PROFILE
SCALE:
Horiz. 1"=40'
Vert. 1"=4'

LOS ALAMITOS DRAINAGE CHANNEL C-1		
STA. 149+50 TO STA. 162+00		SHEET
DRAWN BY: B.T. TRICKEY		12
CHECKED BY:	DATE:	OF 26



BENCH MARK:

L & T. Marked L.S. 2889 in Chiselled 'D' in SE Leg. end Tower of S.C. Edison Co. N of Sta. 154+52.36 Elevation 15.87

TYPICAL SECTION

LOOKING UPSTREAM FROM STA. 162+00 TO 169+80.00
Scale: 1"=10'

HYDRAULIC PROPERTIES

A = 172 sq. ft. r = 4.50
Q = 815 cfs n = 0.025
V = 4.7 ft/sec. s = 0.00088

TYPICAL SECTION

LOOKING UPSTREAM FROM STA. 170+00.00 TO 175+00
Scale: 1"=10'

HYDRAULIC PROPERTIES

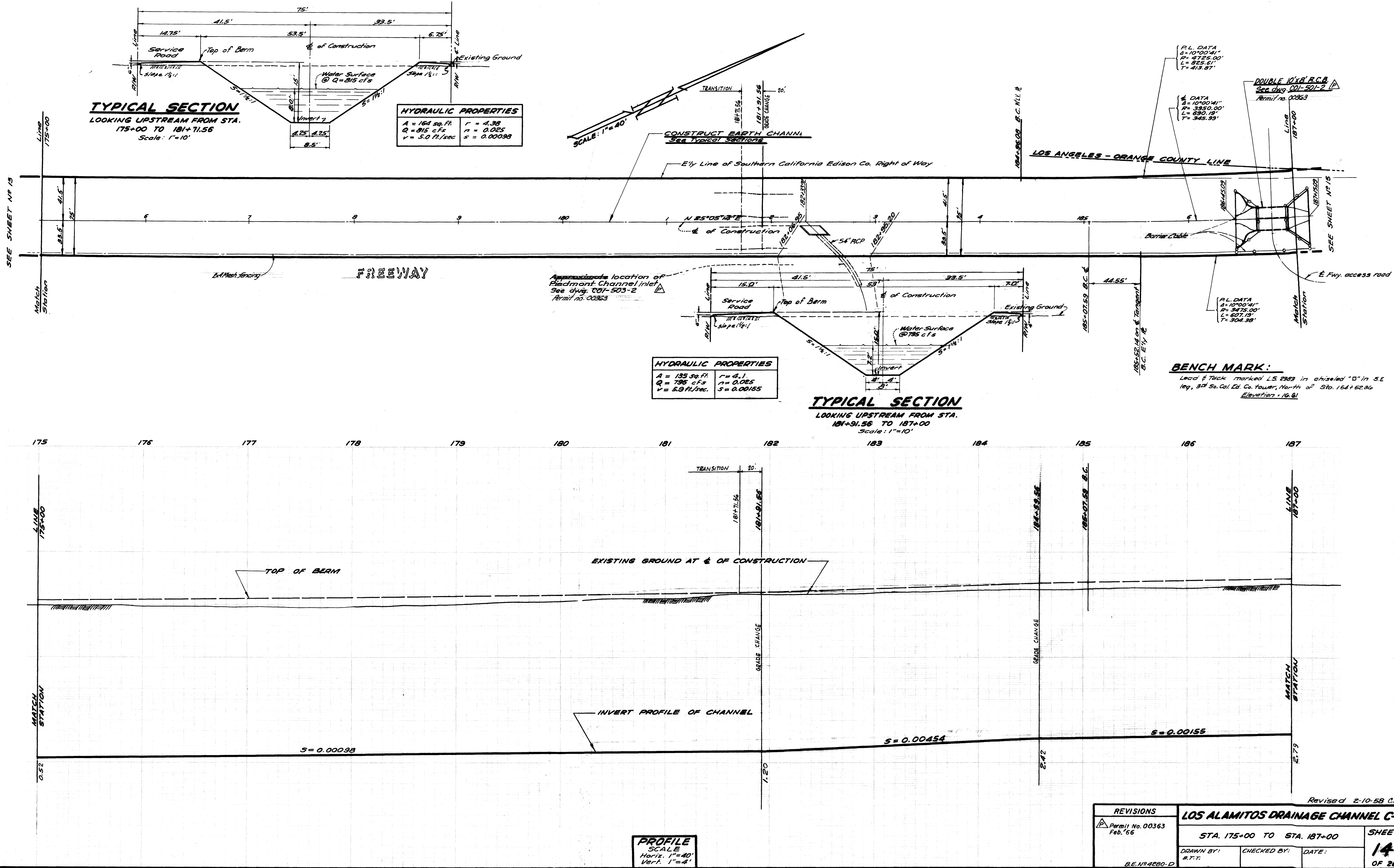
A = 164 sq. ft. r = 4.38
Q = 815 cfs n = 0.025
V = 5.0 ft/sec. s = 0.00098

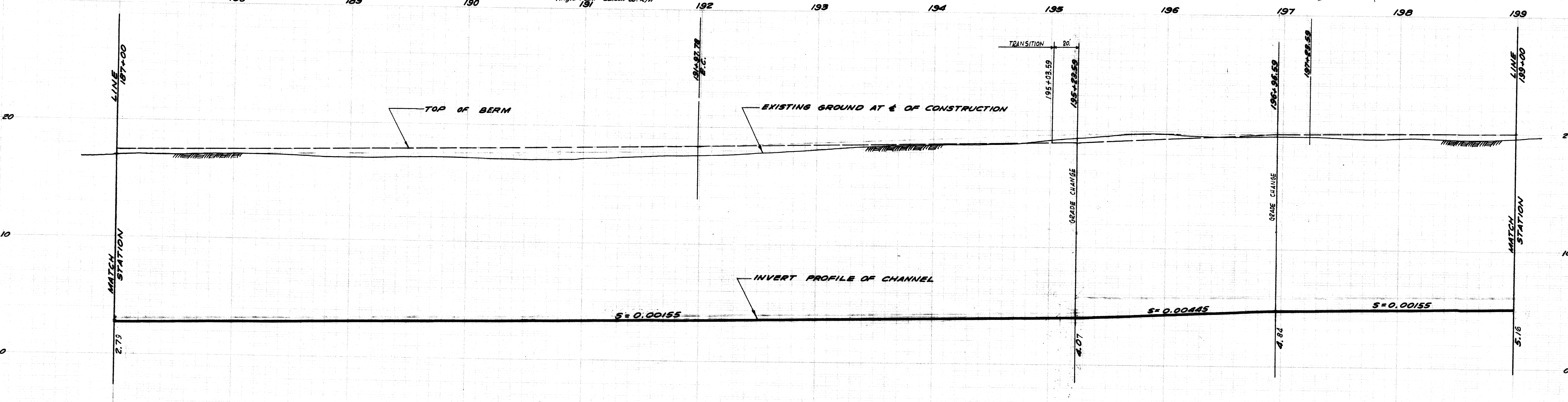
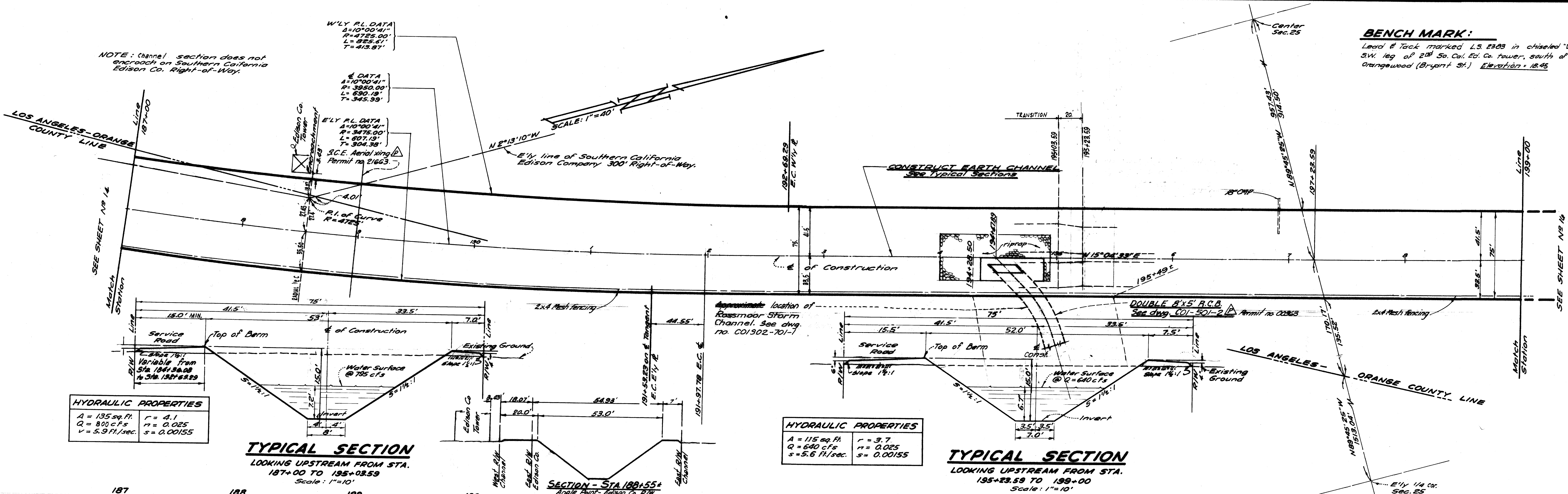
PROFILE
SCALE
Horiz. 1"=40'
Vert. 1"=4'

Revised 2-10-58 CD.

REVISIONS		LOS ALAMITOS DRAINAGE CHANNEL C-1	
Permit No. 22563 8-4-66		STA. 162+00 TO STA. 175+00	SHEET 13 OF 26
DRAWN BY: B.T. TRUCKEY	CHECKED BY:	DATE:	
B.E. No. 4280-D			

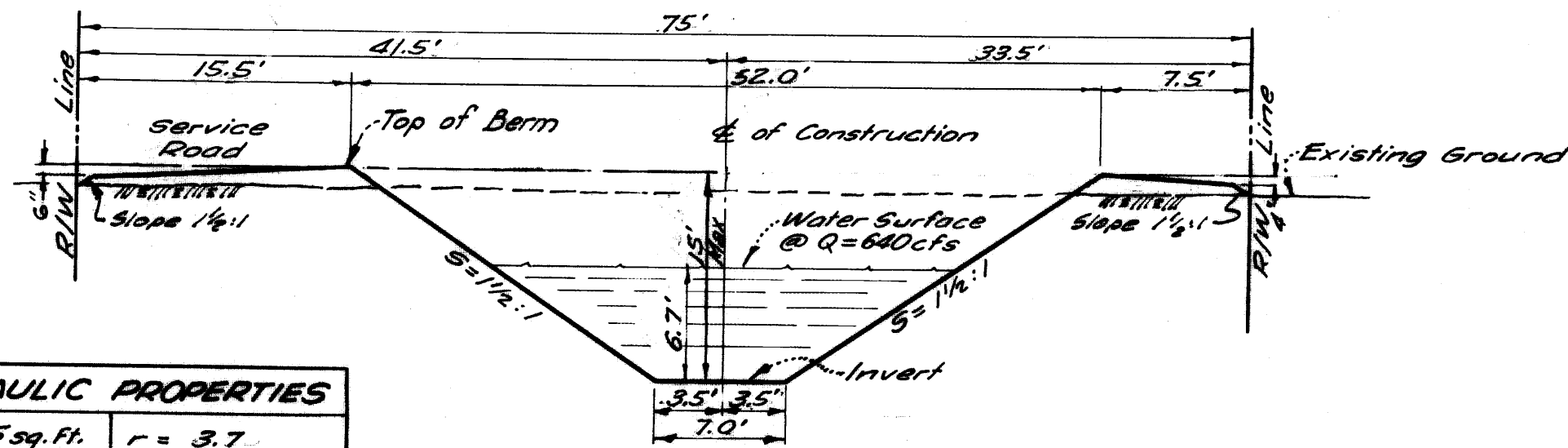
C01-701-1-A





PROFILE SCALE
 Horiz. 1"=40'
 Vert. 1"=4'

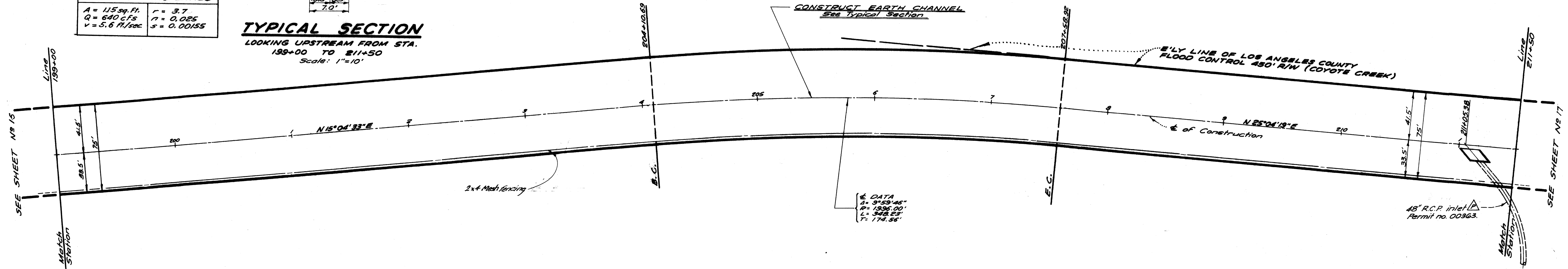
REVISIONS Permit No. 21663 12-27-63 Permit No. 00363 6-11-65 B.E. No. 4280-D		Revised 2-10-58 CO. LOS ALAMOS DRAINAGE CHANNEL C-1 STA. 187+00 TO STA. 199+00 DRAWN BY: B. T. T. CHECKED BY: DATE:	
SHEET		15	
OF 26		COI-701-1-A	



HYDRAULIC PROPERTIES	
A = 115.39 Ft.	r = 3.7
Q = 640 cfs	n = 0.025
V = 5.6 Ft./sec	s = 0.00155

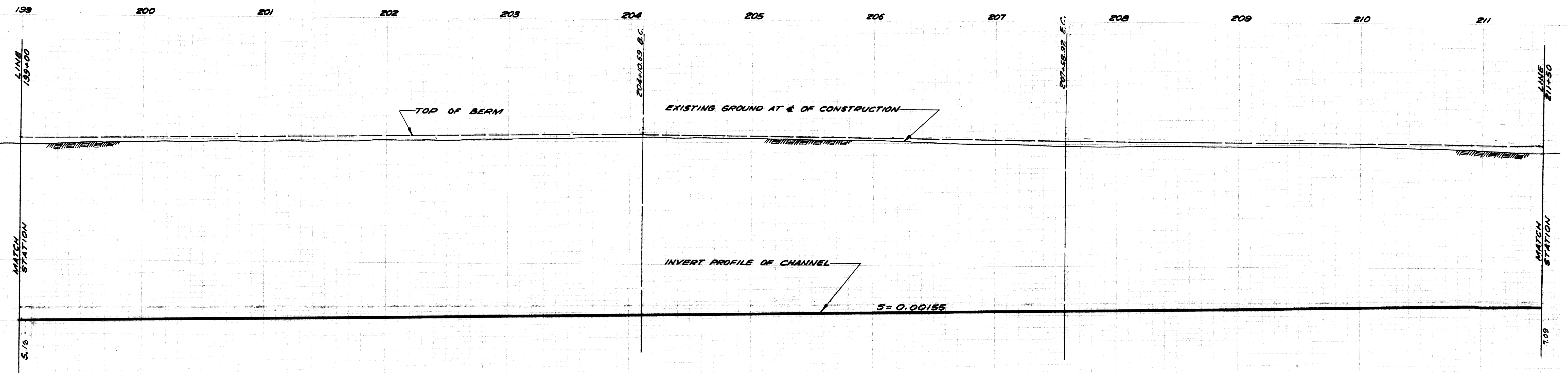
TYPICAL SECTION

LOOKING UPSTREAM FROM STA.
199+00 TO 211+50
Scale: 1"=10'



BENCH MARK:

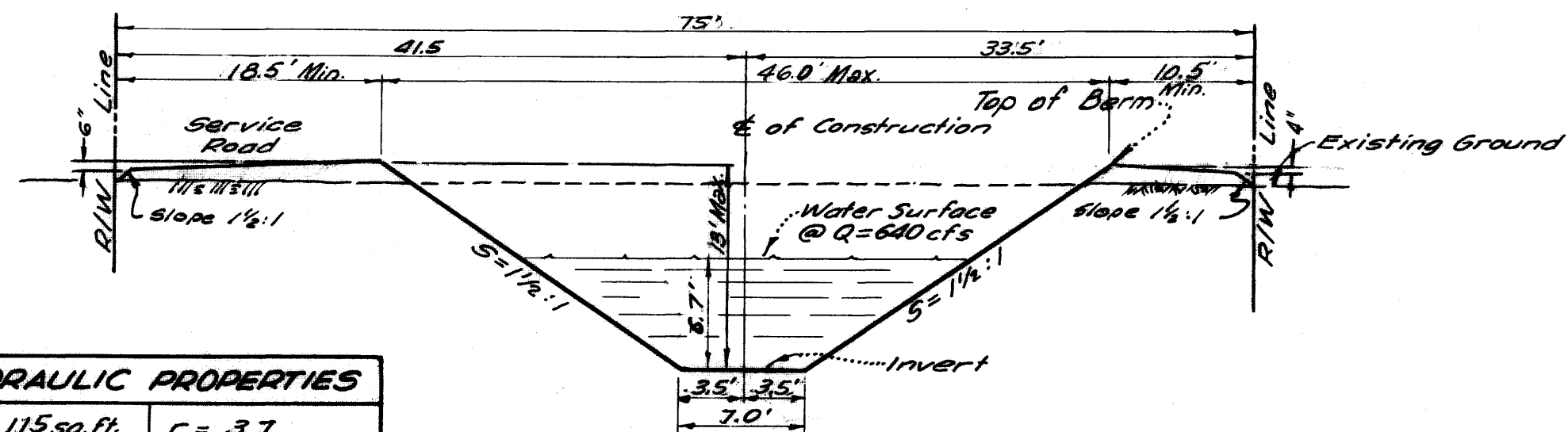
Chiseled "B" in N.E. leg of 18' So. Cal. Ed. Co. tower, South
of Orangewood (Bryant St) Elevation = 22.15



PROFILE
SCALE
HORIZ. 1"=40'
VERT. 1"=4'

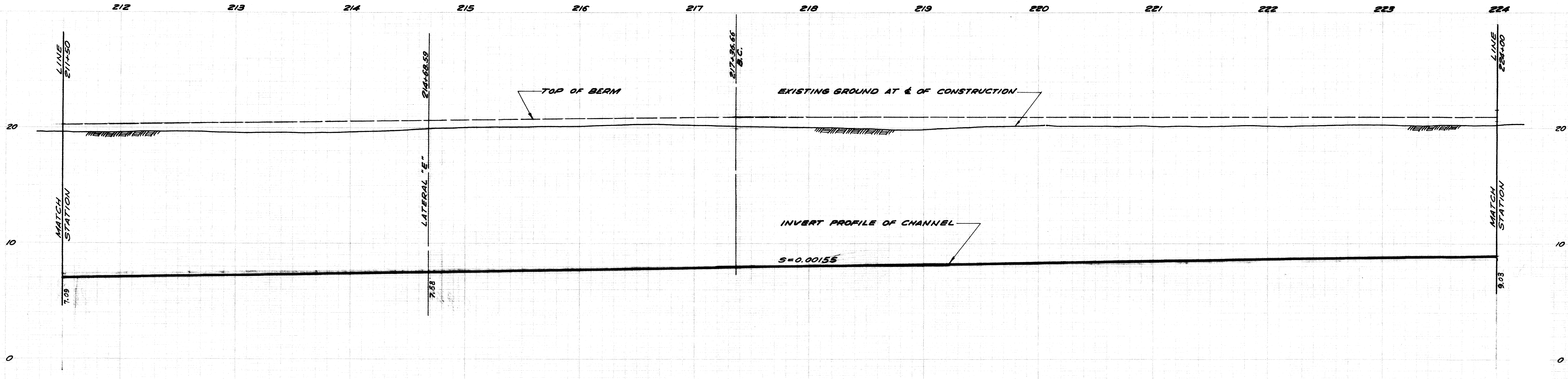
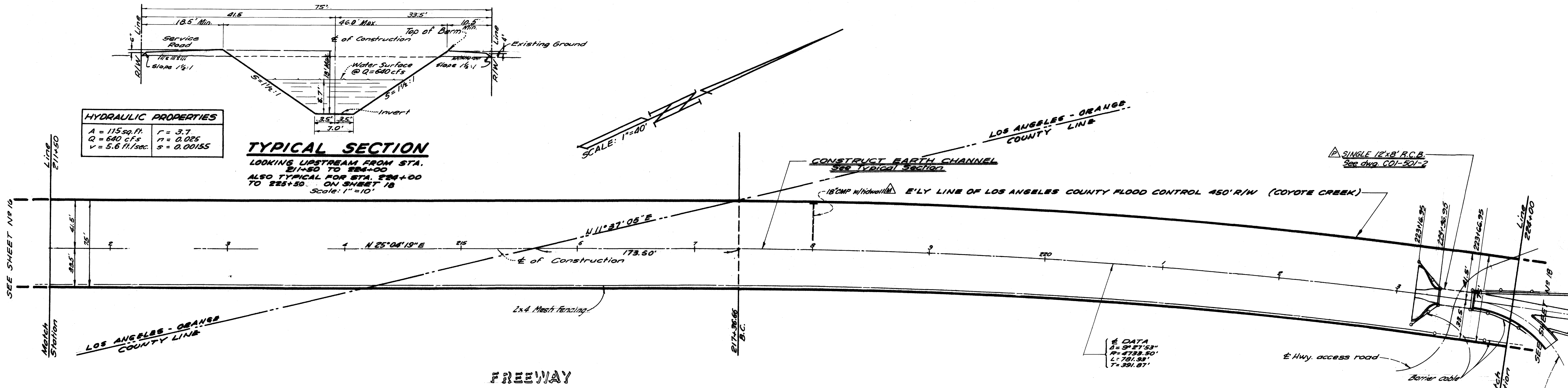
LOS ALAMITOS DRAINAGE CHANNEL C-1		
STA. 199+00 TO STA. 211+50		
DRAWN BY: S. T. T.	CHECKED BY:	DATE:
SHEET 16		OF 26

C01-701-1-A



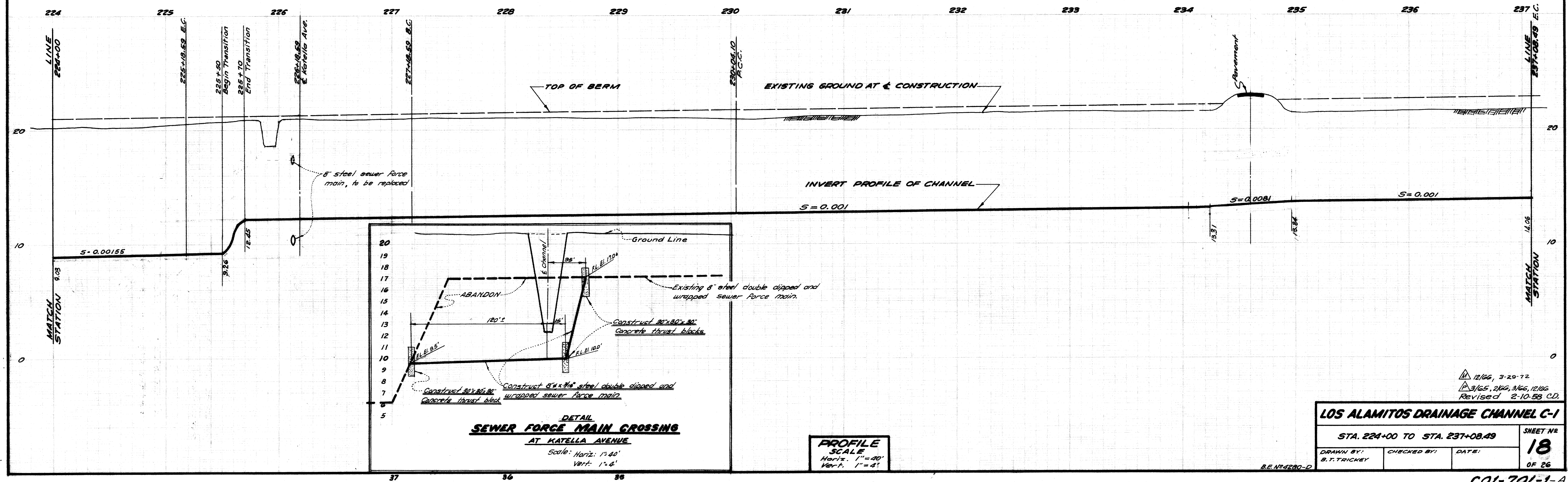
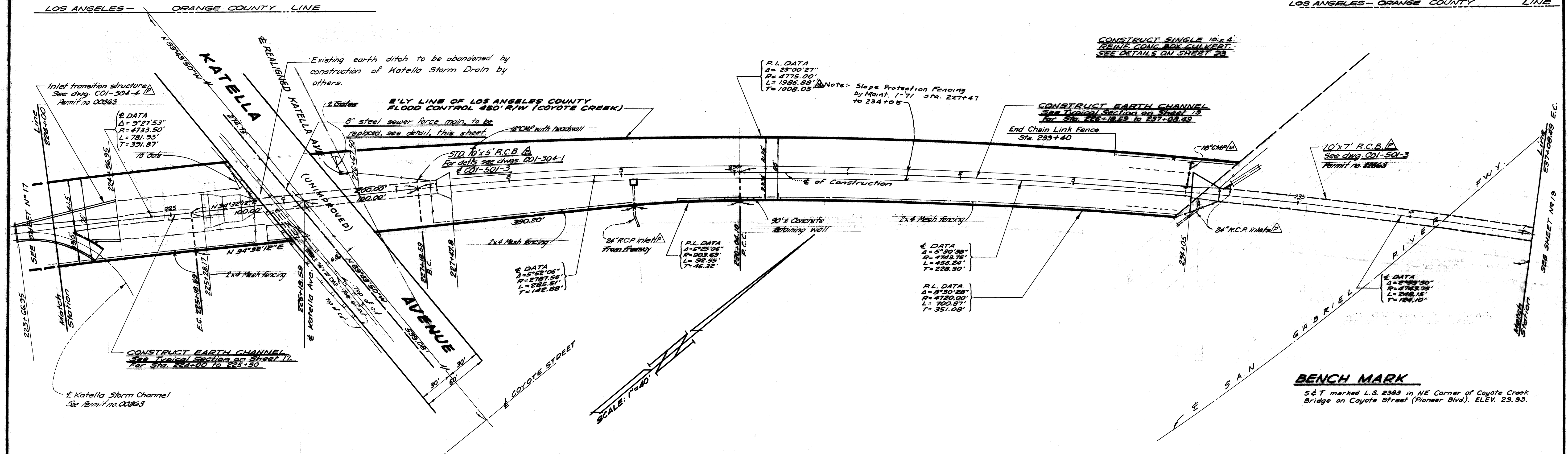
HYDRAULIC PROPERTIES	
A = 115 sq. ft.	r = 3.7
Q = 640 cfs	n = 0.025
V = 5.6 ft./sec.	s = 0.00155

TYPICAL SECTION
 LOOKING UPSTREAM FROM STA. 211+50 TO 224+00
 ALSO TYPICAL FOR STA. 224+00 TO 225+50 ON SHEET 18
 Scale: 1"=10'



PROFILE
 SCALE
 Horiz. 1"=40'
 Vert. 1"=4'

14 12/67		
LOS ALAMITOS DRAINAGE CHANNEL C-1		
STA. 211+50 TO STA. 224+00		SHEET 17
DRAWN BY: S.T.T.	CHECKED BY:	DATE:
B.E. No. 2280-D		OF 26



LOS ALAMITOS DRAINAGE CHANNEL C-1

STA. 224+00 TO STA. 237+08.49

SHEET NO.

18

DRAWN BY: B. T. TRICKEY CHECKED BY: DATE: OF 26

12/66, 3-29-72
3/65, 2/66, 3/66, 12/66
Revised 2-10-66 C.D.

B.E. N34280-D

COI-701-1-A

SEE SHEET NO. 18

SEE SHEET NO. 20

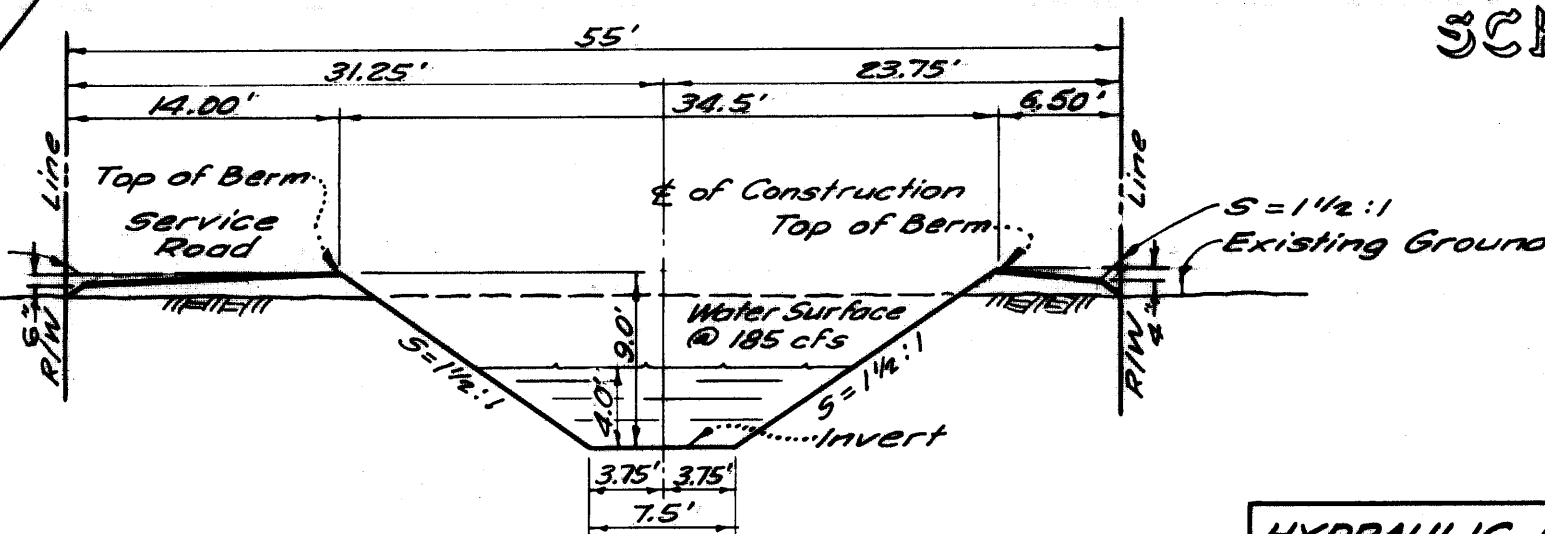
E San Gabriel River Fwy.

E'LY LINE OF LOS ANGELES COUNTY FLOOD CONTROL
450' RIGHT OF WAY (COYOTE CREEK)CONSTRUCT EARTH CHANNEL
See Typical Section

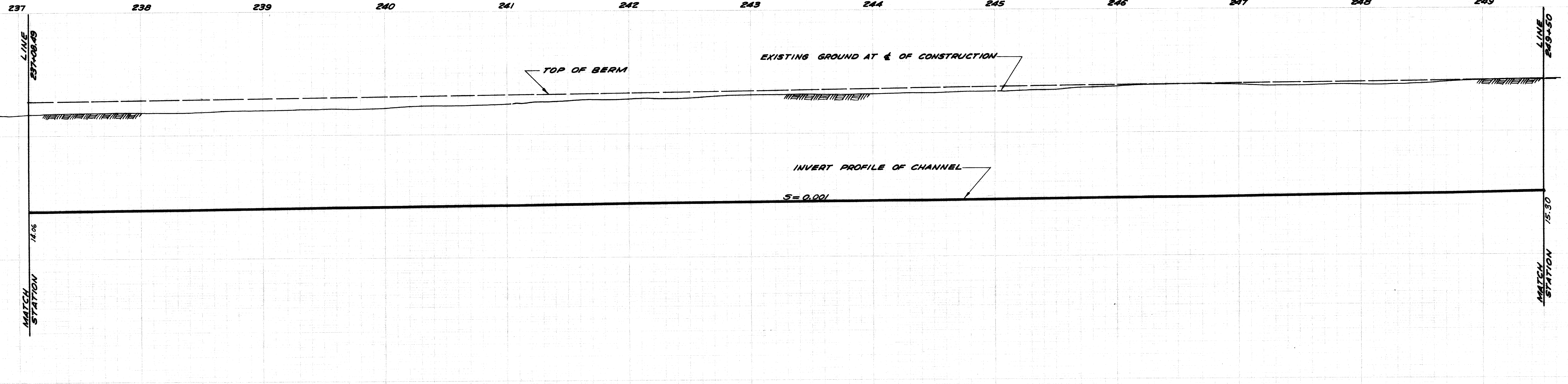
SCALE: 1"=40'

N 48°54'46"E
Line of ConstructionConstruct 5' Chain Link Fence
Type "B" See Details, Sheet 22.18" RCP Inlet
Permit No. 23862
Sta. 244+75

2x4 Mast Fencing

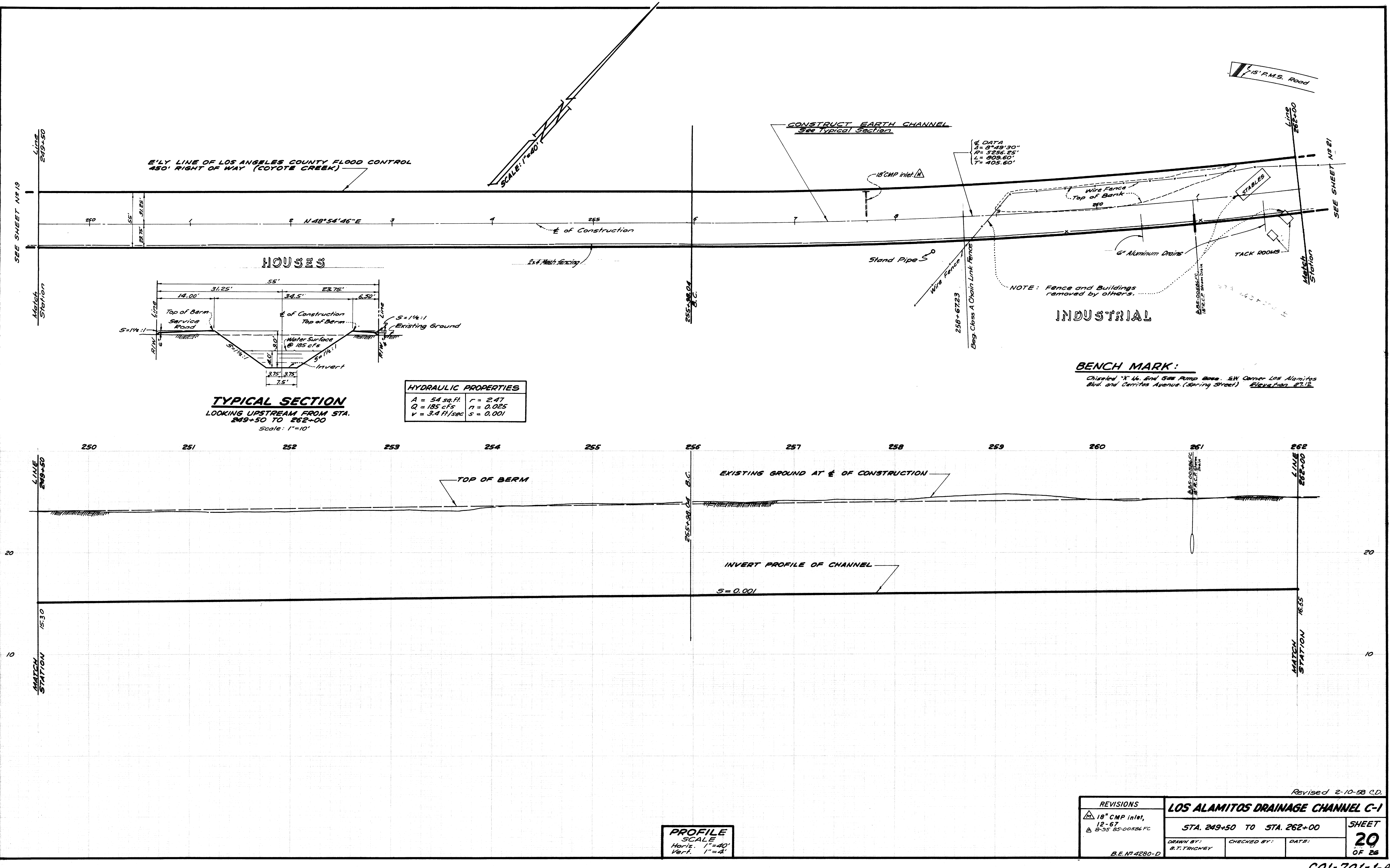
**TYPICAL SECTION**LOOKING UPSTREAM FROM STA.
237+08.49 TO 249+50
ALSO TYPICAL FOR STA. 235+10
TO 237+08.49 ON SHEET 18
Scale: 1"=10'**HYDRAULIC PROPERTIES**

A = 54 sq.ft.	r = 2.47
Q = 185 cfs	n = 0.085
V = 3.4 ft/sec	s = 0.001

BENCH MARK:S.T. Marked L.S. 2383 in NE Corner of Coyote Creek
Bridge on Pioneer Blvd. (Coyote Street) Elevation 23.92
PROFILE
SCALE
Horiz. 1"=40'
Vert. 1"=4'

REVISIONS		LOS ALAMITOS DRAINAGE CHANNEL C-1		
1	PERMIT NO. 23862 3-4-63	STA. 237+08.49 TO STA. 249+50		SHEET 19 OF 26
2	PERMIT NO. 22563 8-4-66			
3	18" CMP INLET 12-21-67 S.E. No. 4280-D	DRAWN BY: B.T. TRICKEY	CHECKED BY:	DATE:

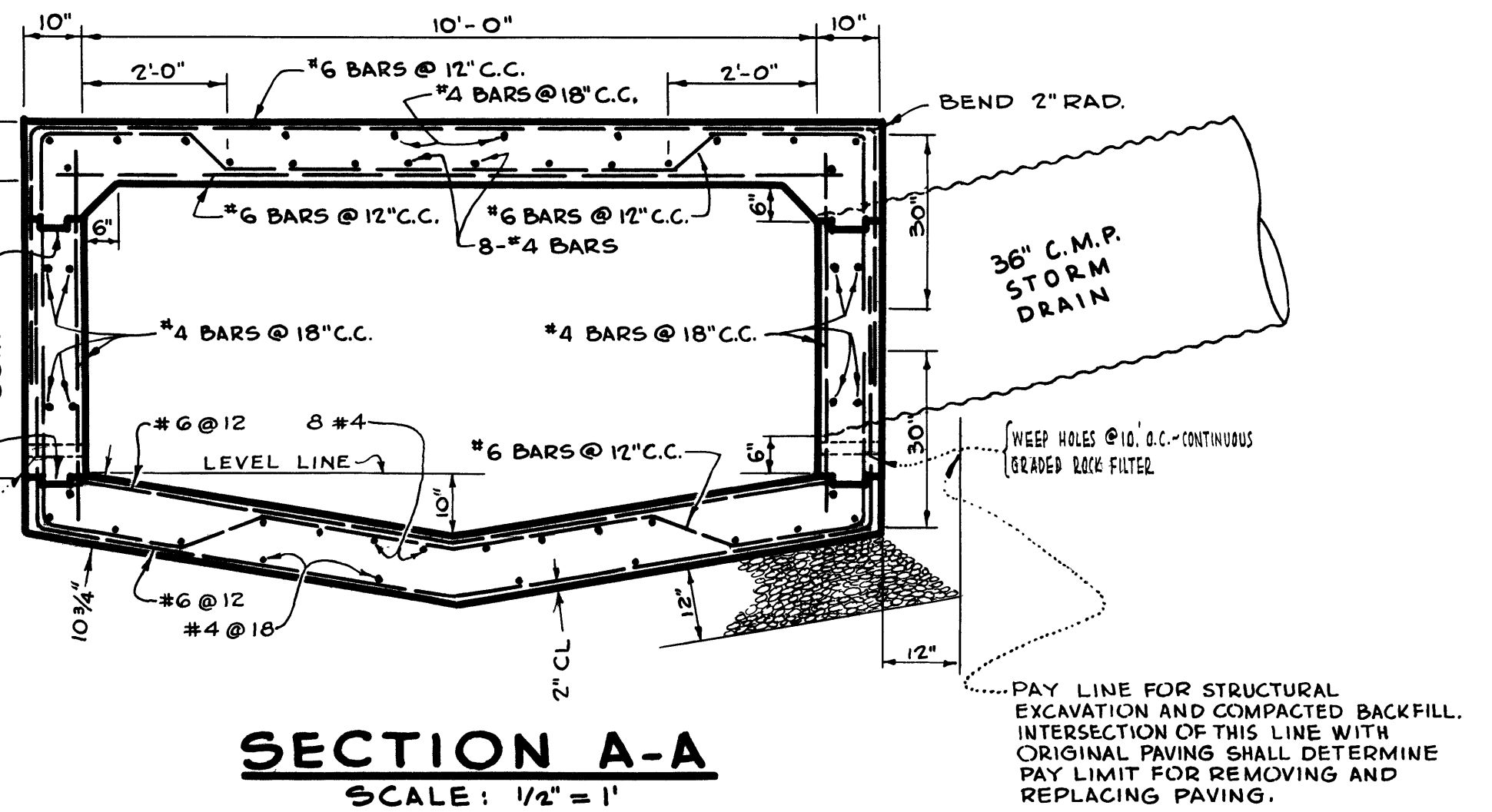
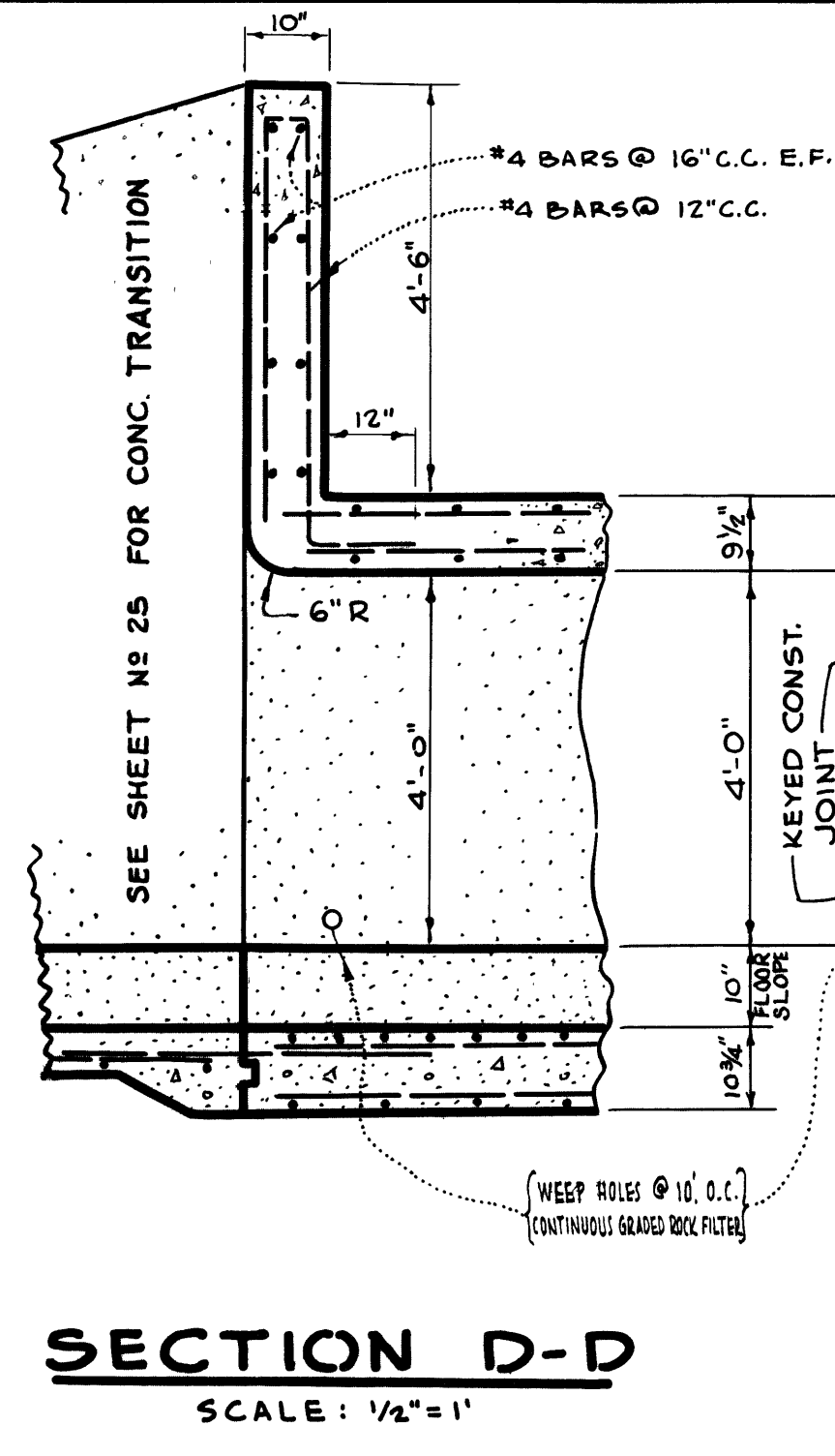
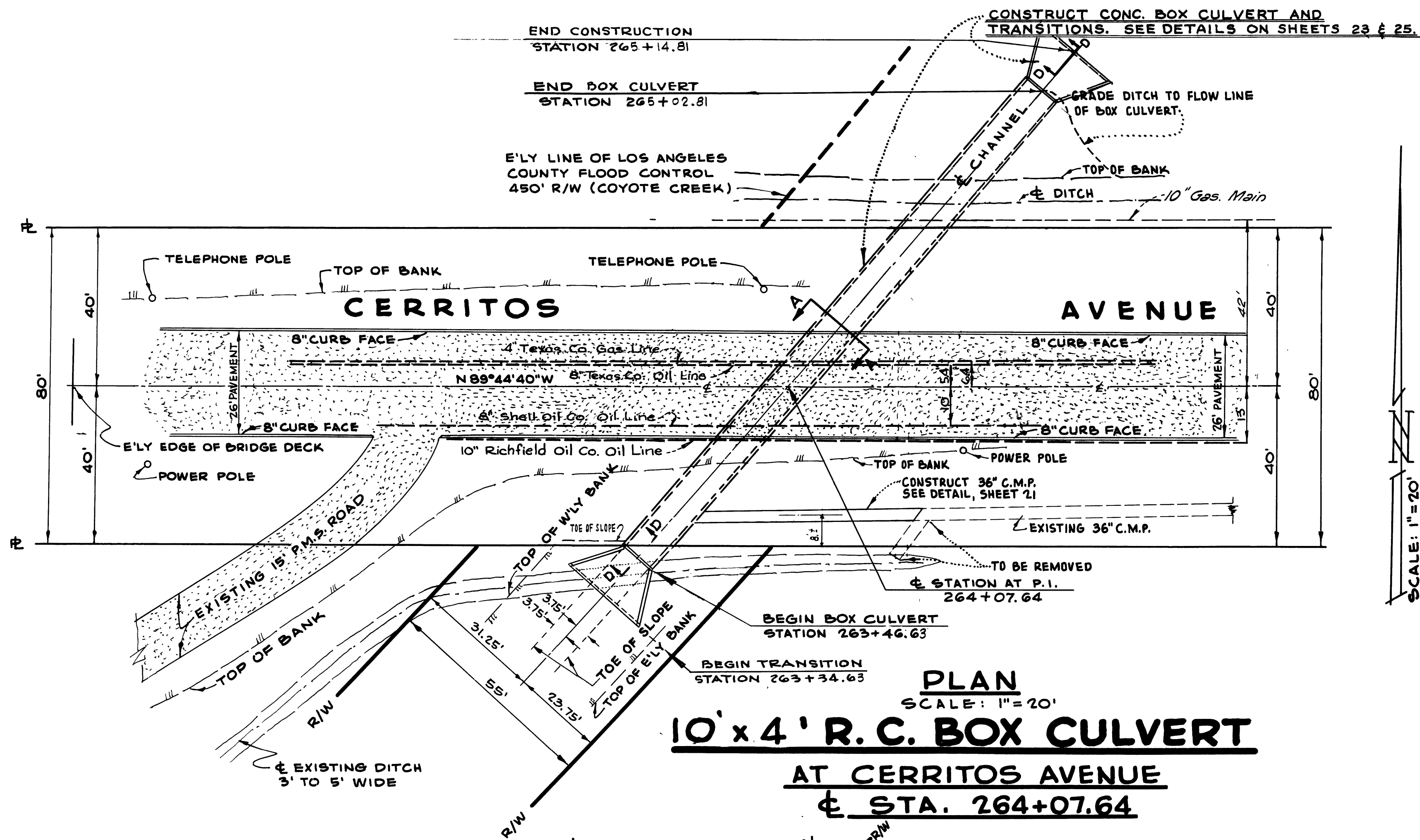
C01-701-1-A



REVISIONS		LOS ALAMITOS DRAINAGE CHANNEL C-1	
18" CMP inlet, 12-67 2-35 BS-003B6 FC		STA. 249+50 TO STA. 262+00	
DRAWN BY: S.T. TRICKEY		SHEET 20 OF 26	
B.E. N 4280-D		DATE:	

PROFILE SCALE
Horiz. 1"=40'
Vert. 1"=4'

Revised 2-10-58 C.D.

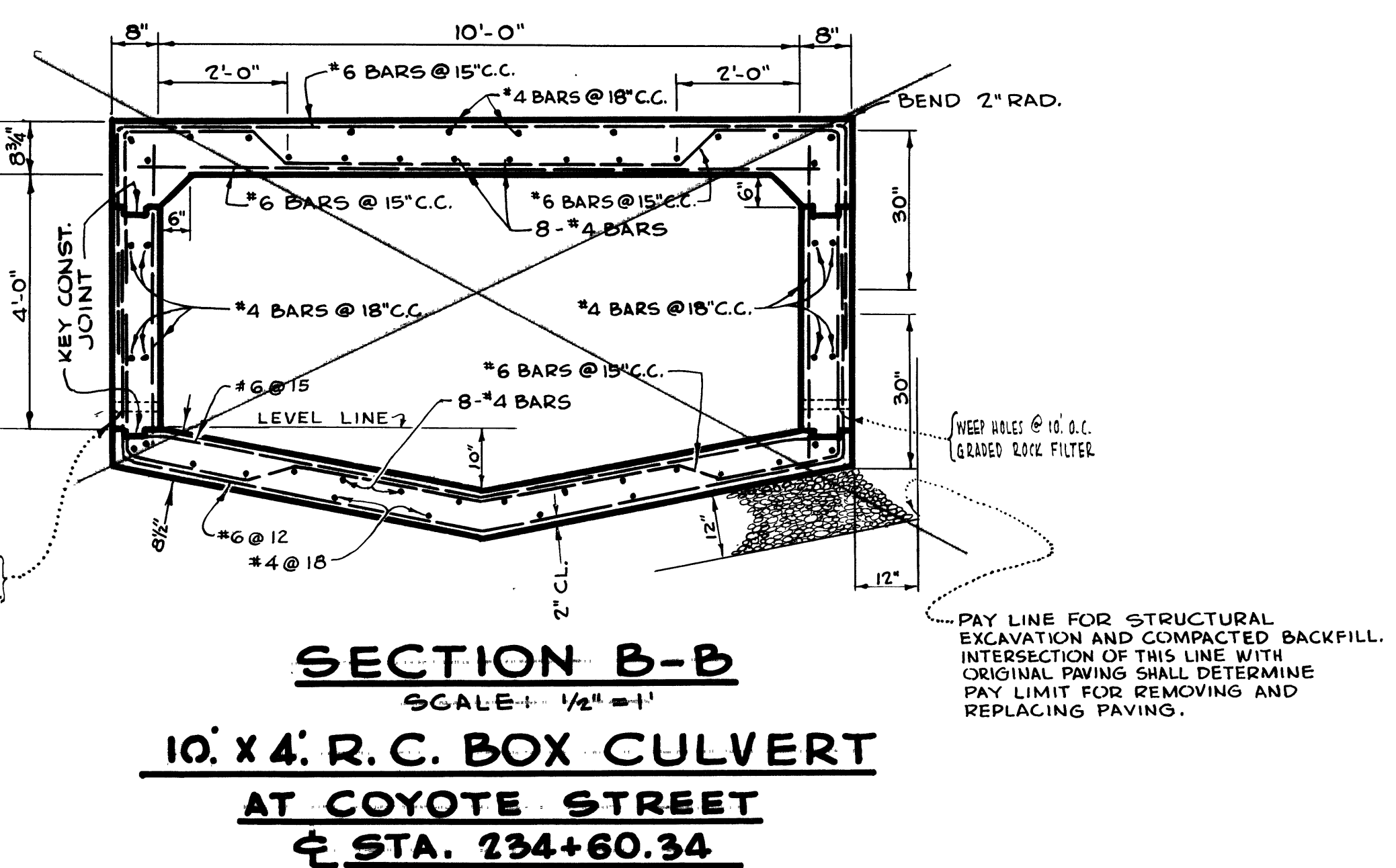
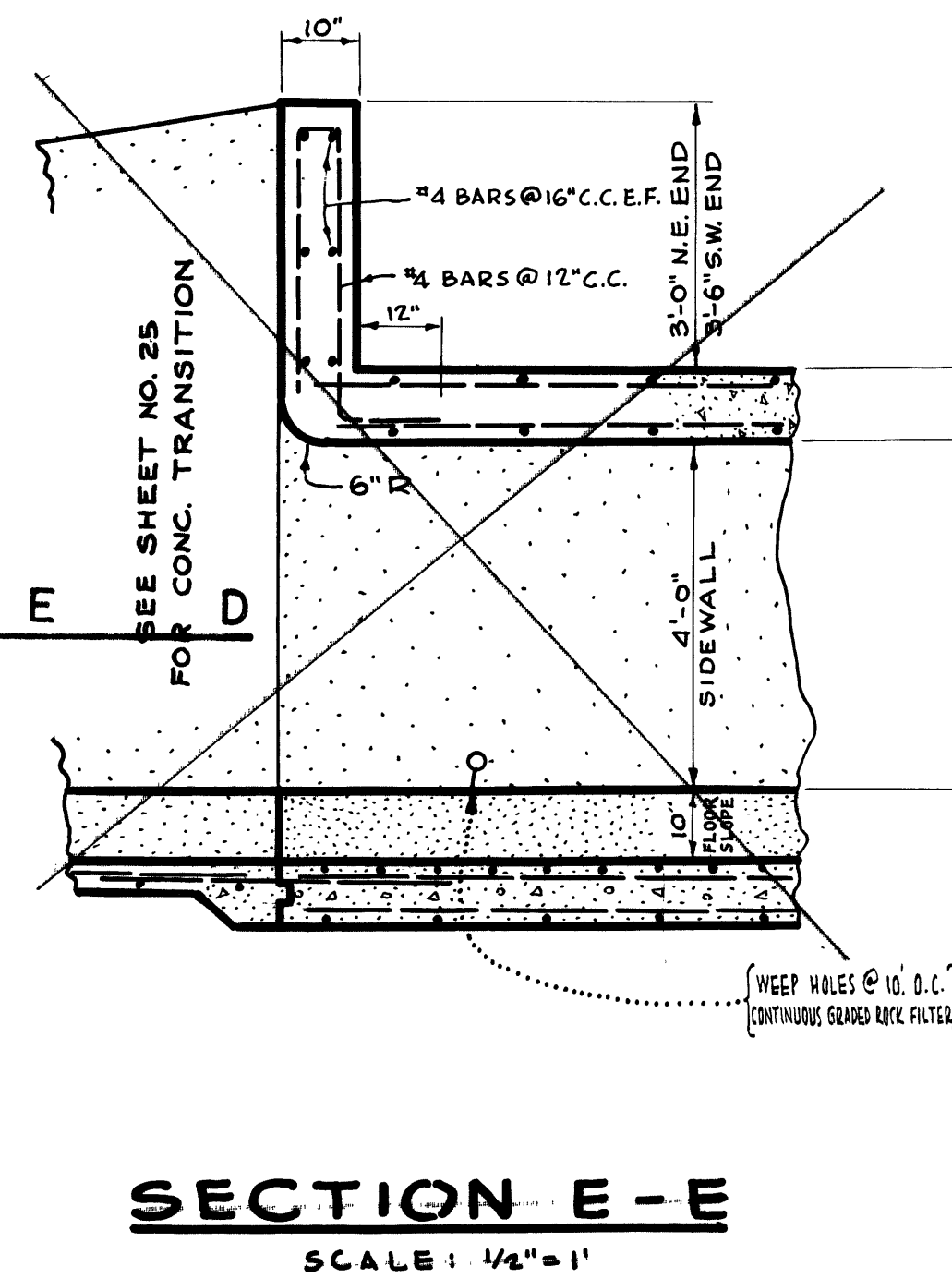
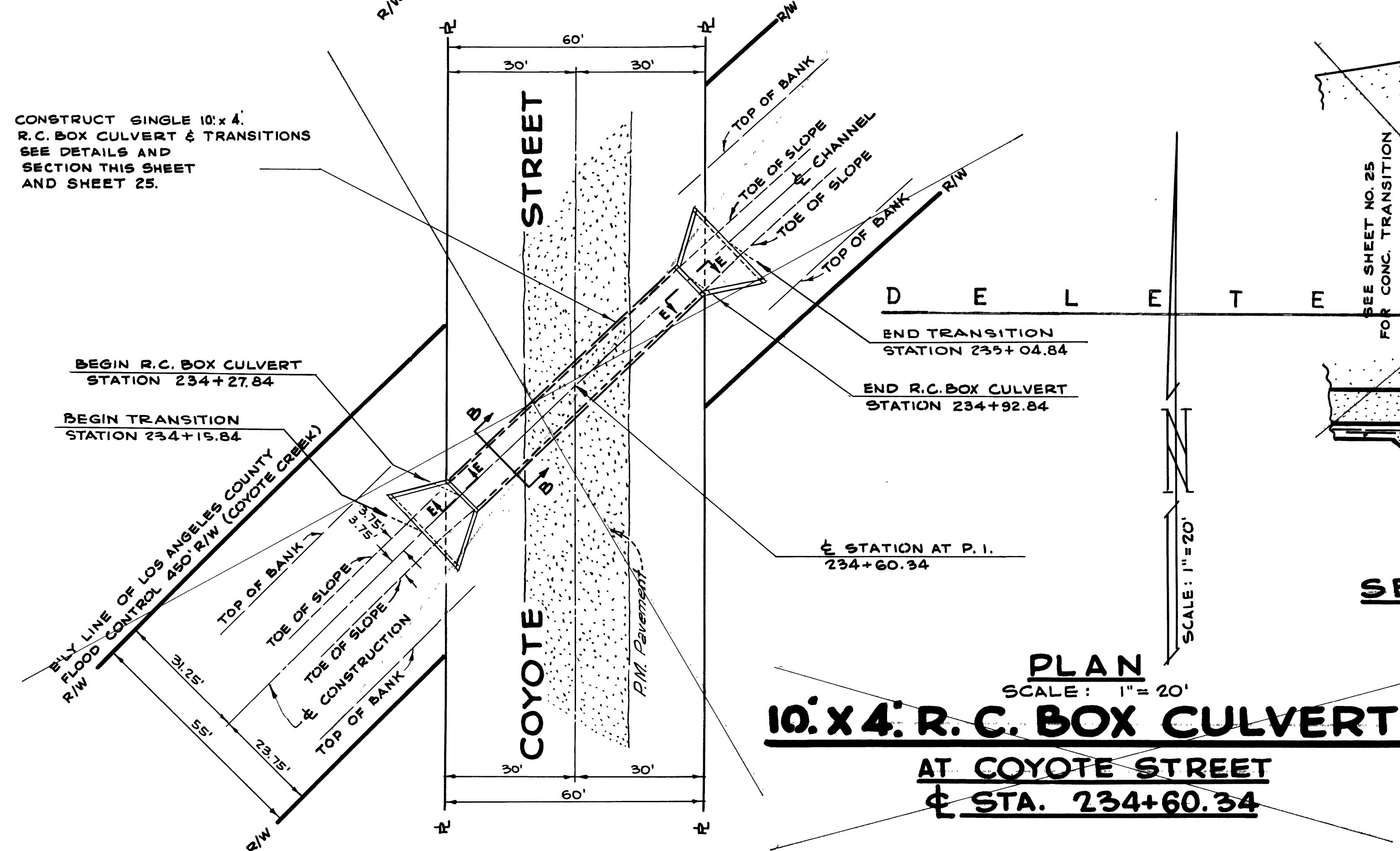


- NOTES:
1. REINFORCEMENT EMBEDMENT IS 1 1/4 DIAMETERS CLEAR, OR 1" MIN. EXCEPT AS NOTED.
 2. BAR SPLICES TO BE 20 DIAMETERS.
 3. F'c = 3000 #PSI @ 28 DA.
 4. F's = 20000 #PSI

CONSTRUCT SINGLE 10' x 4' R.C. BOX CULVERT & TRANSITIONS SEE DETAILS AND SECTION THIS SHEET AND SHEET 25.

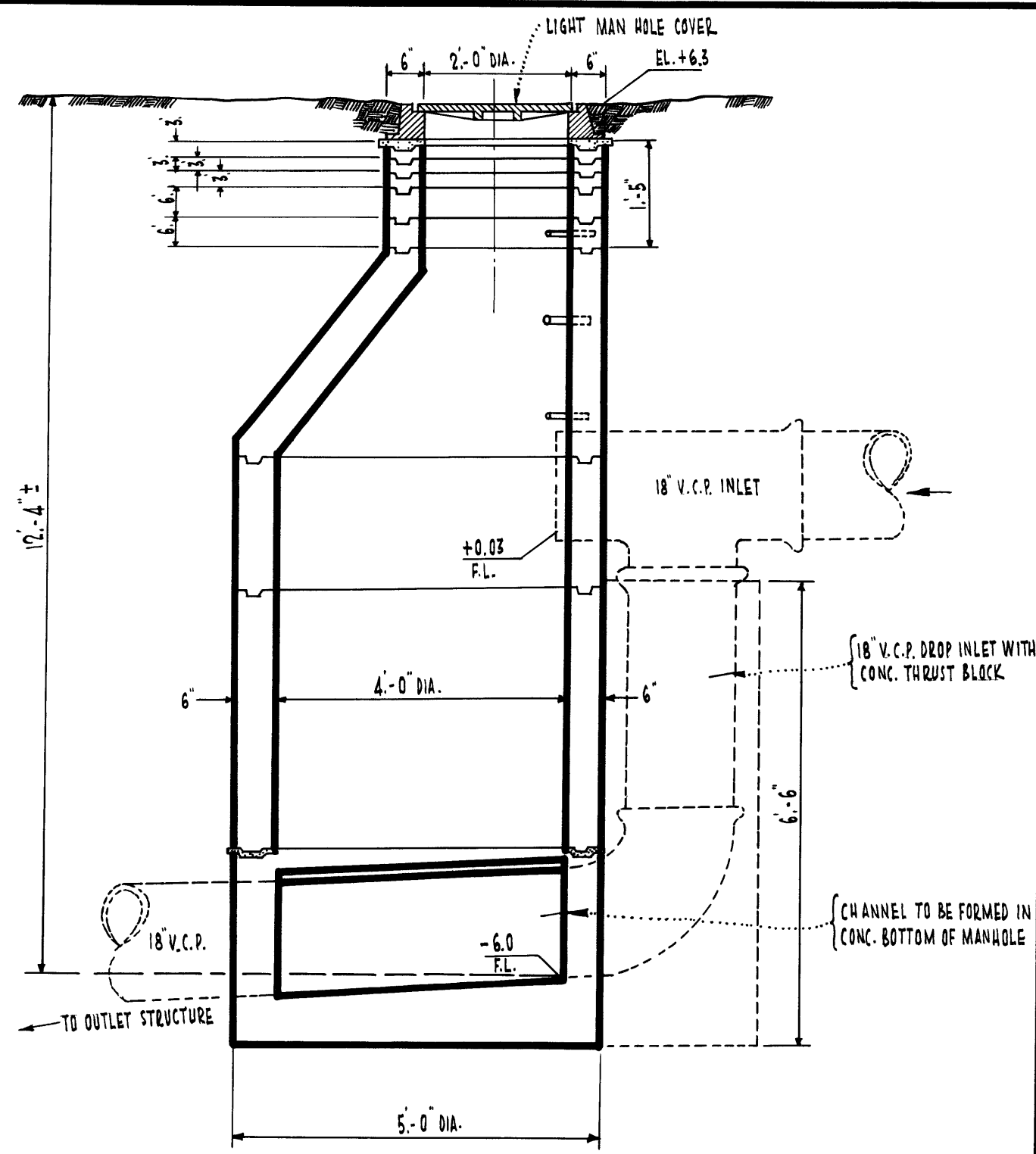
BEGIN R.C. BOX CULVERT
STATION 234+27.84

BEGIN TRANSITION
STATION 234+15.84

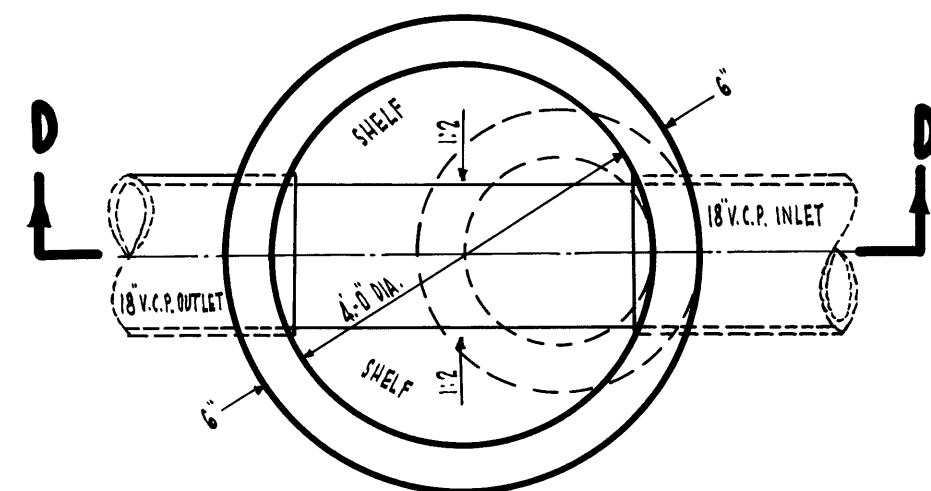


△ R.C.B. CULVERT AT COYOTE ST.
REMOVED PER PERMIT NO. 22563

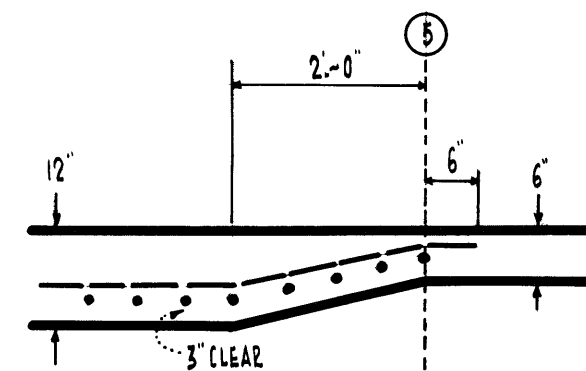
REVISED 3-72 Permit 22563			LOS ALAMITOS DRAINAGE CHANNEL C-1	
STRUCTURAL DETAILS			SHEET NO.	
DRAWN BY: R.F.C.	CHECKED BY:	DATE:	23	
			OF 26	



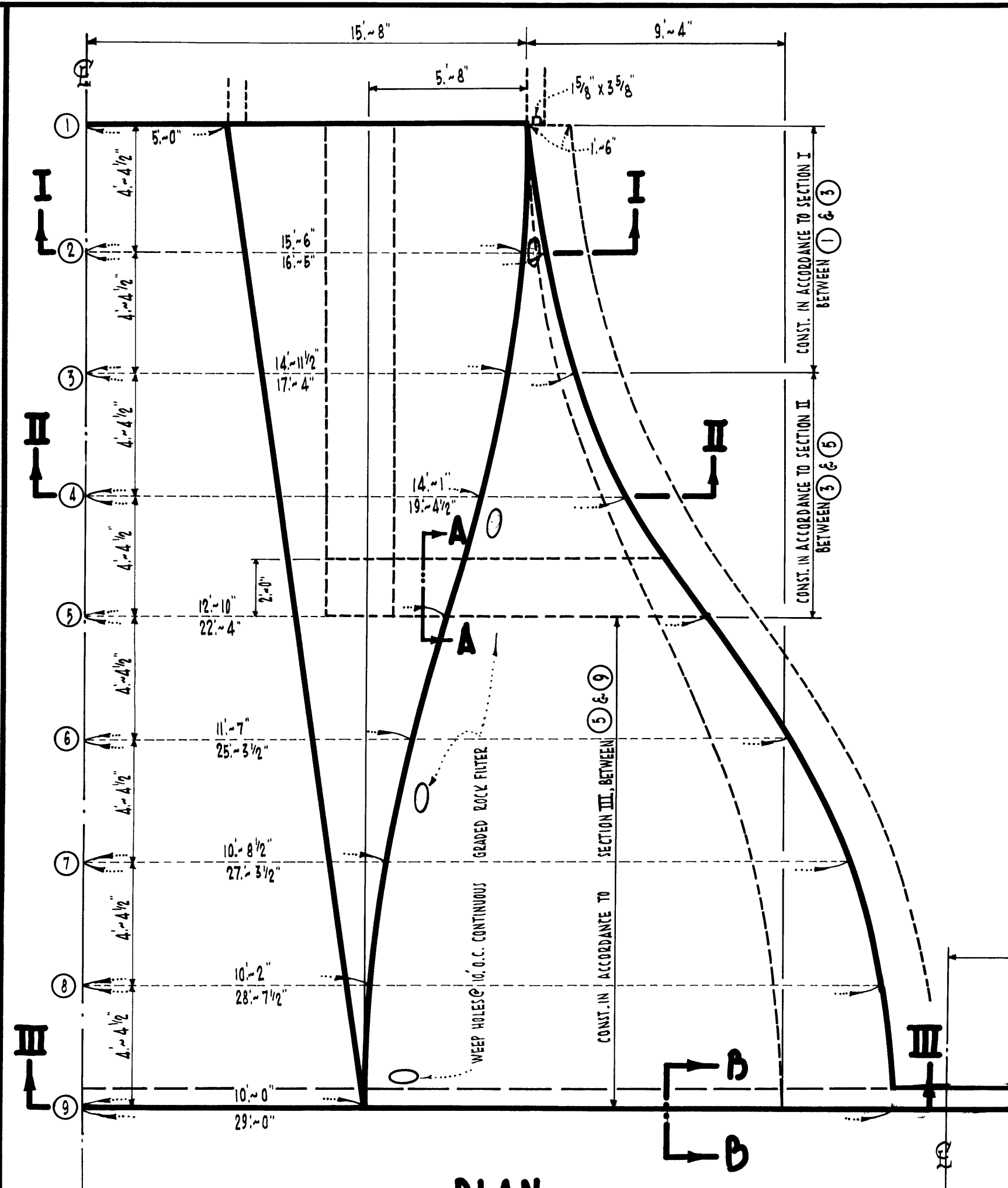
SECTION D-D
SCALE: $\frac{1}{4}" = 1'-0"$



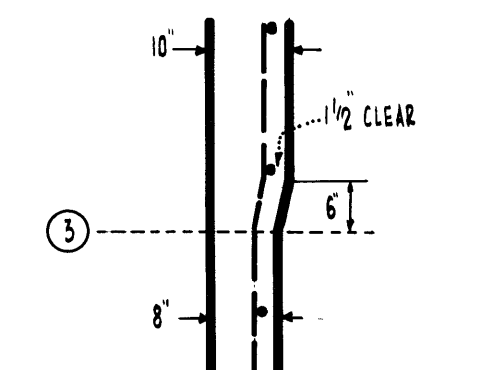
PLAN
STD. PRECAST CONC. MANHOLE
SCALE: $\frac{1}{2}" = 1'-0"$



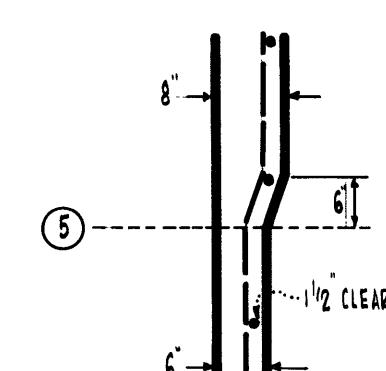
SECTION A-A
SCALE: $\frac{1}{2}" = 1'-0"$



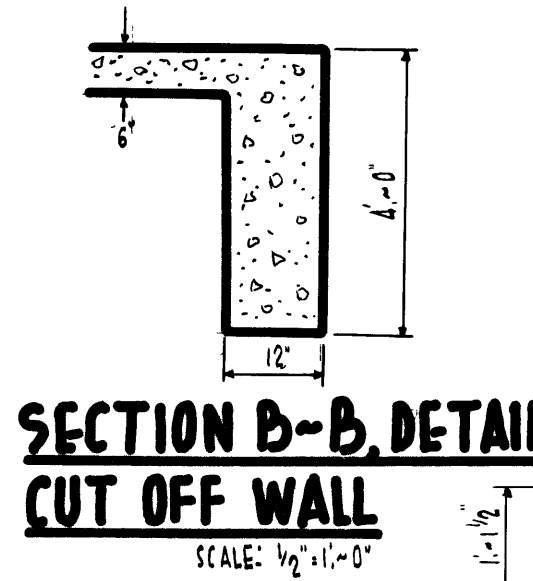
PLAN
SCALE: $\frac{1}{2}" = 1'-0"$



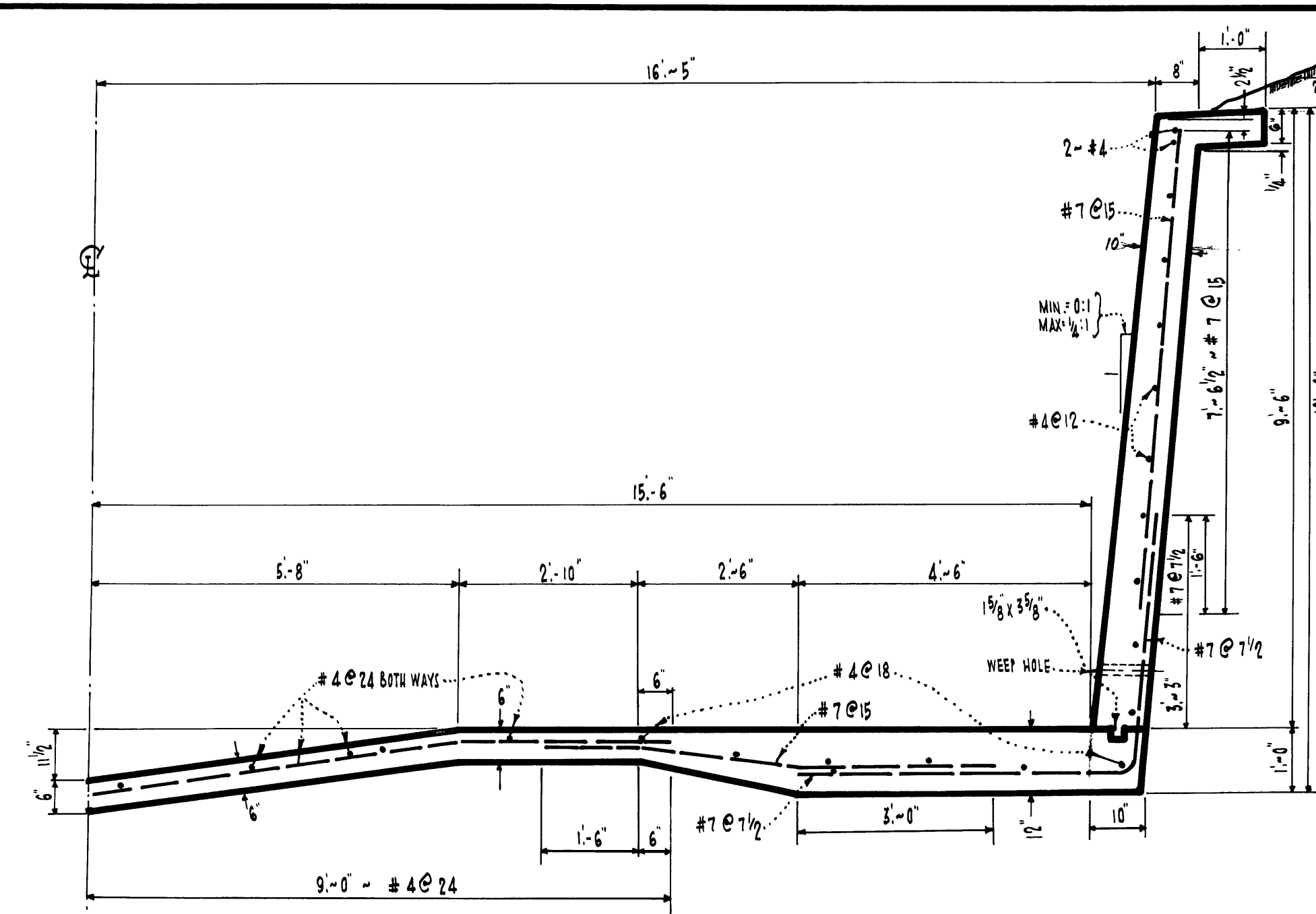
WALL TRANSITION AT POINT 3 IN PLAN
SCALE: $\frac{1}{2}" = 1'-0"$



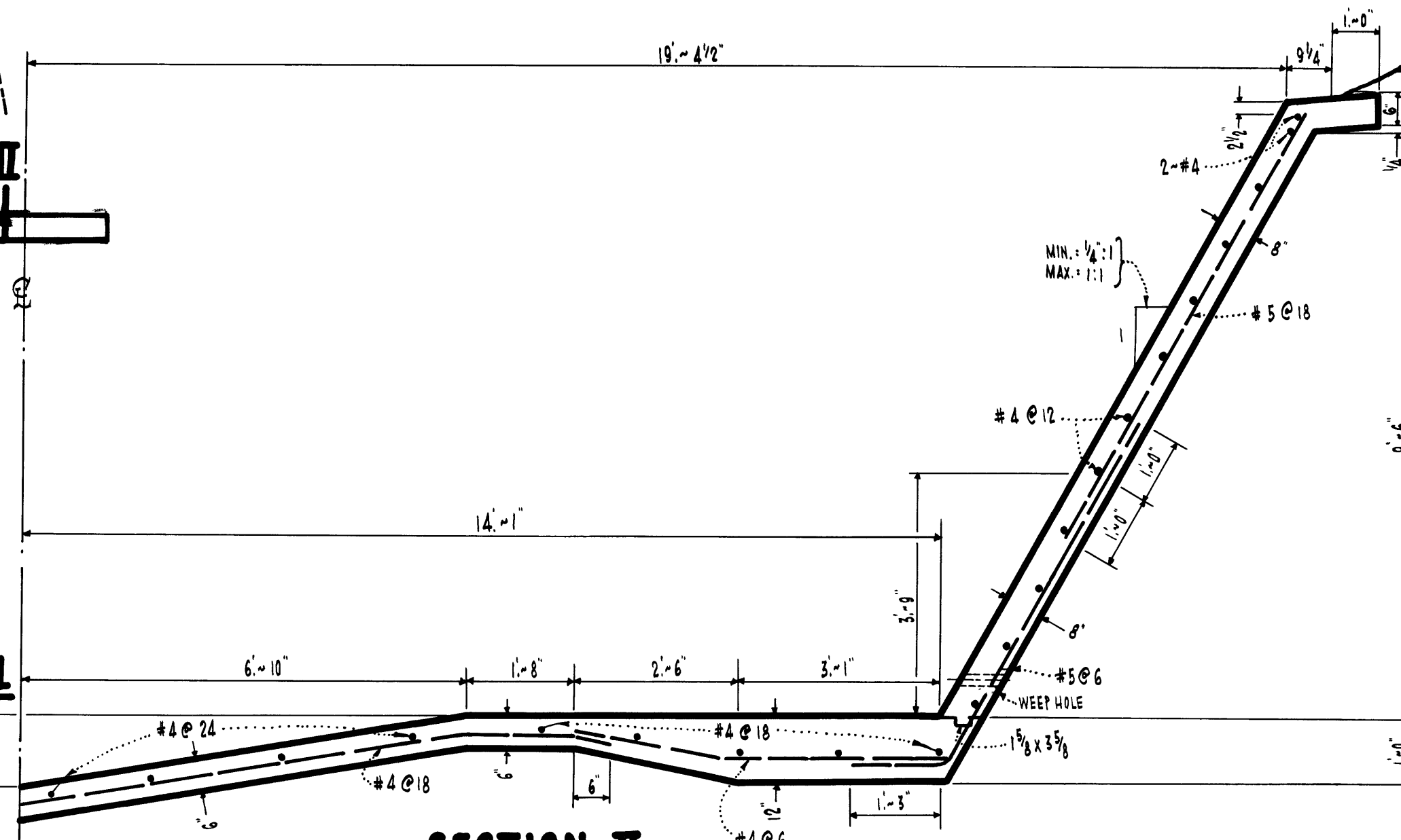
WALL TRANSITION AT POINT 5 IN PLAN
SCALE: $\frac{1}{2}" = 1'-0"$



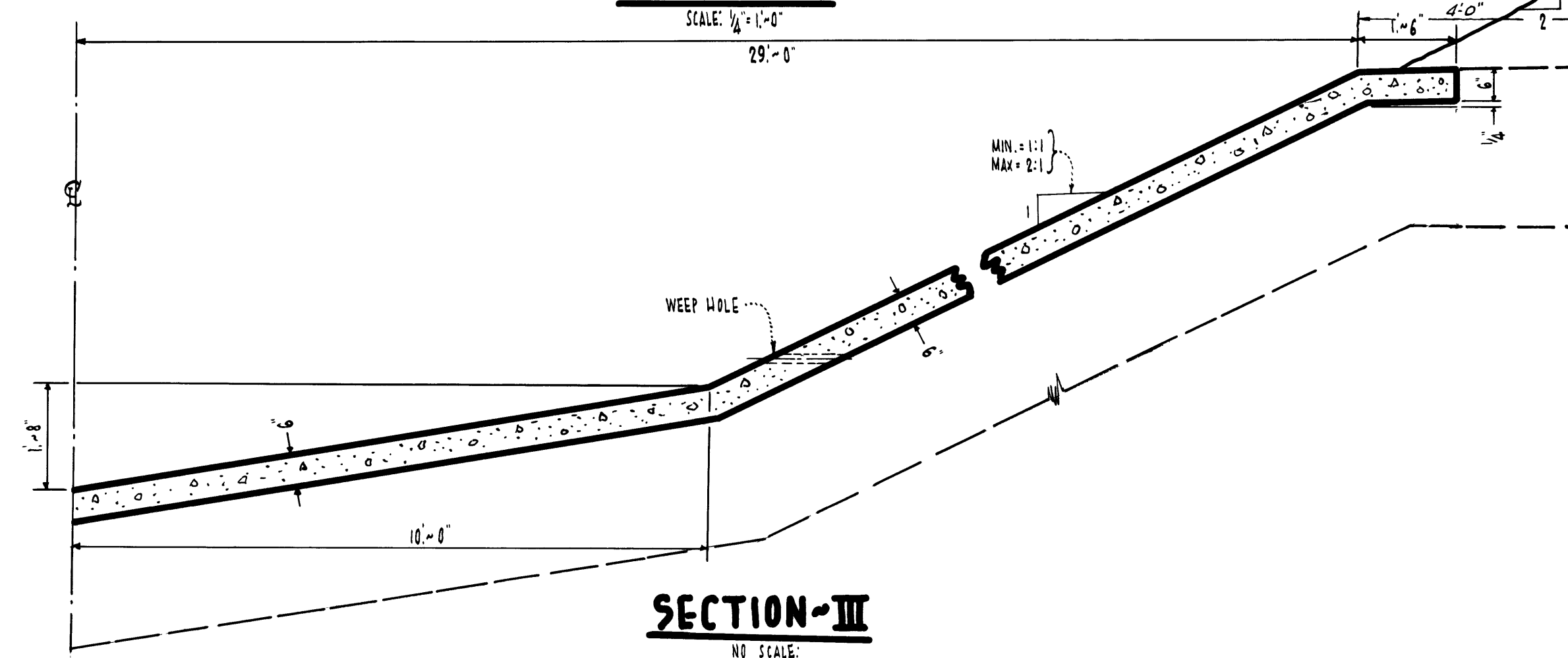
SECTION B-B, DETAIL CUT OFF WALL
SCALE: $\frac{1}{2}" = 1'-0"$



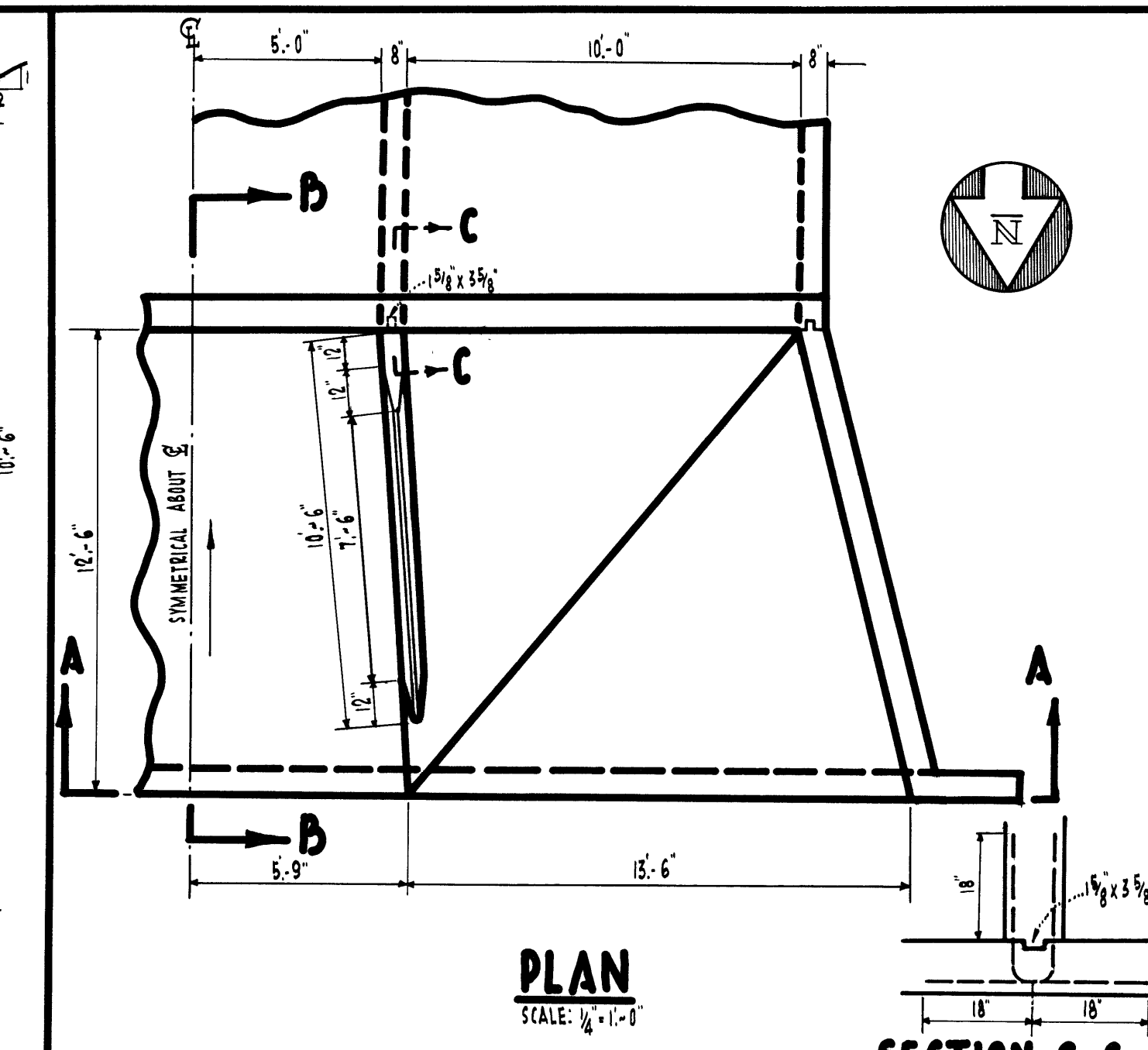
SECTION I
SCALE: $\frac{1}{2}" = 1'-0"$



SECTION II
SCALE: $\frac{1}{2}" = 1'-0"$

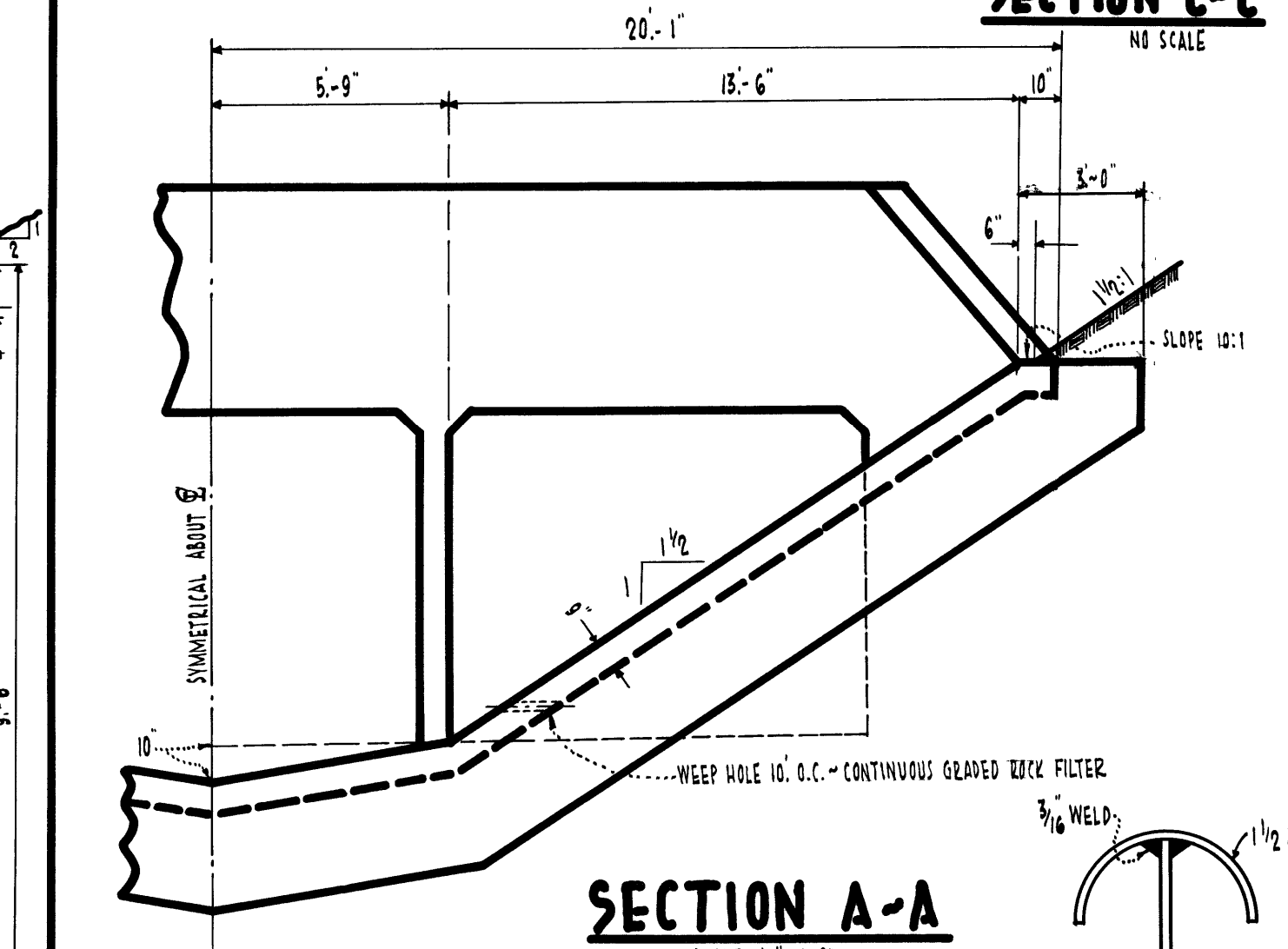


SECTION III
NO SCALE

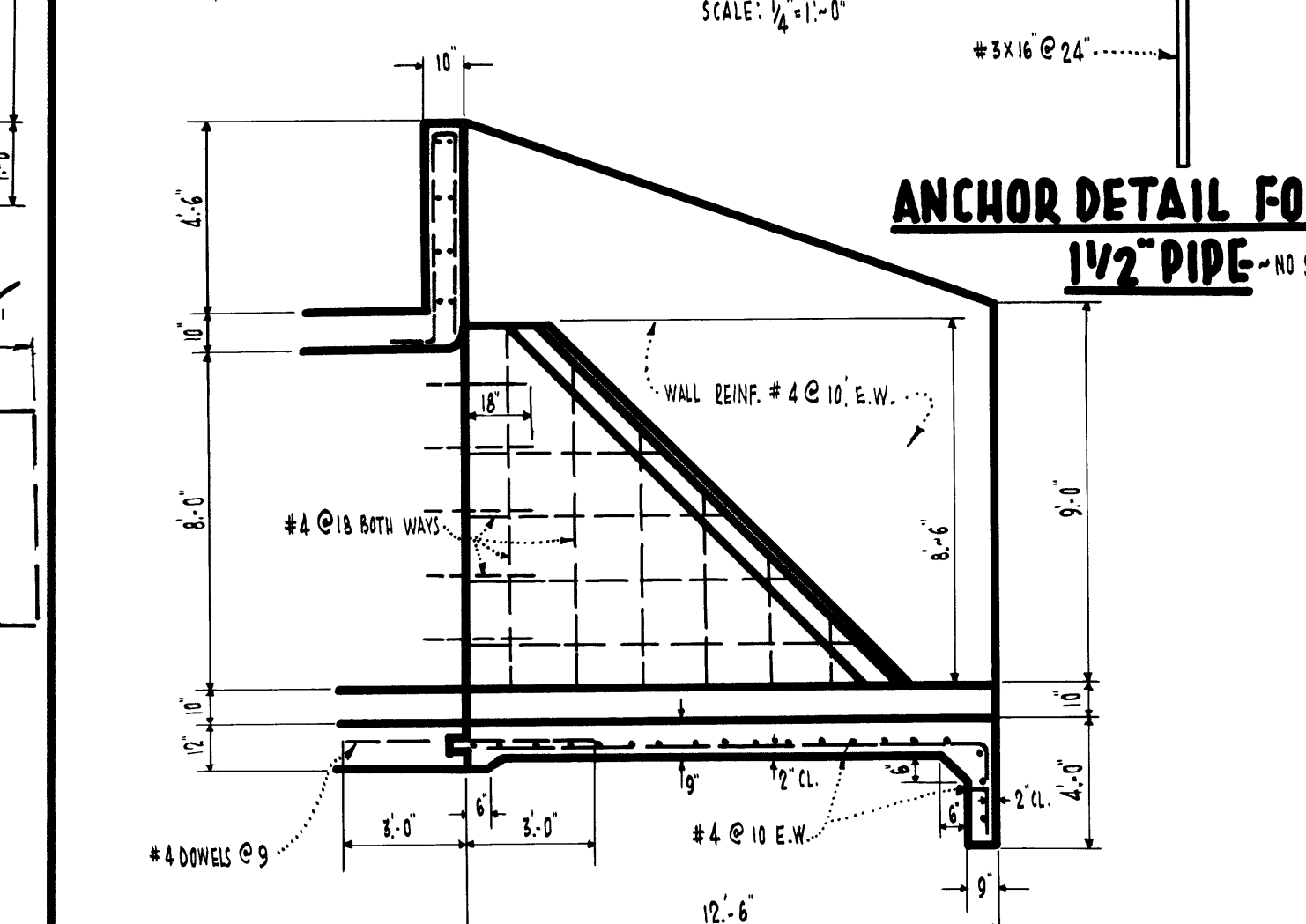


PLAN
SCALE: $\frac{1}{2}" = 1'-0"$

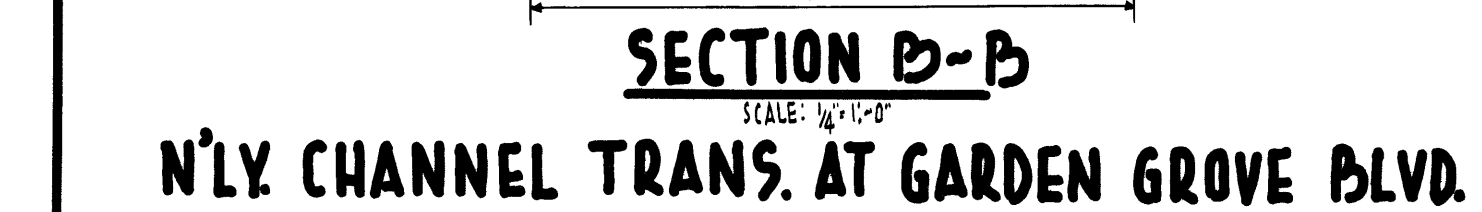
SECTION C-C
NO SCALE



SECTION A-A
SCALE: $\frac{1}{2}" = 1'-0"$



ANCHOR DETAIL FOR 1/2" PIPE
NO SCALE

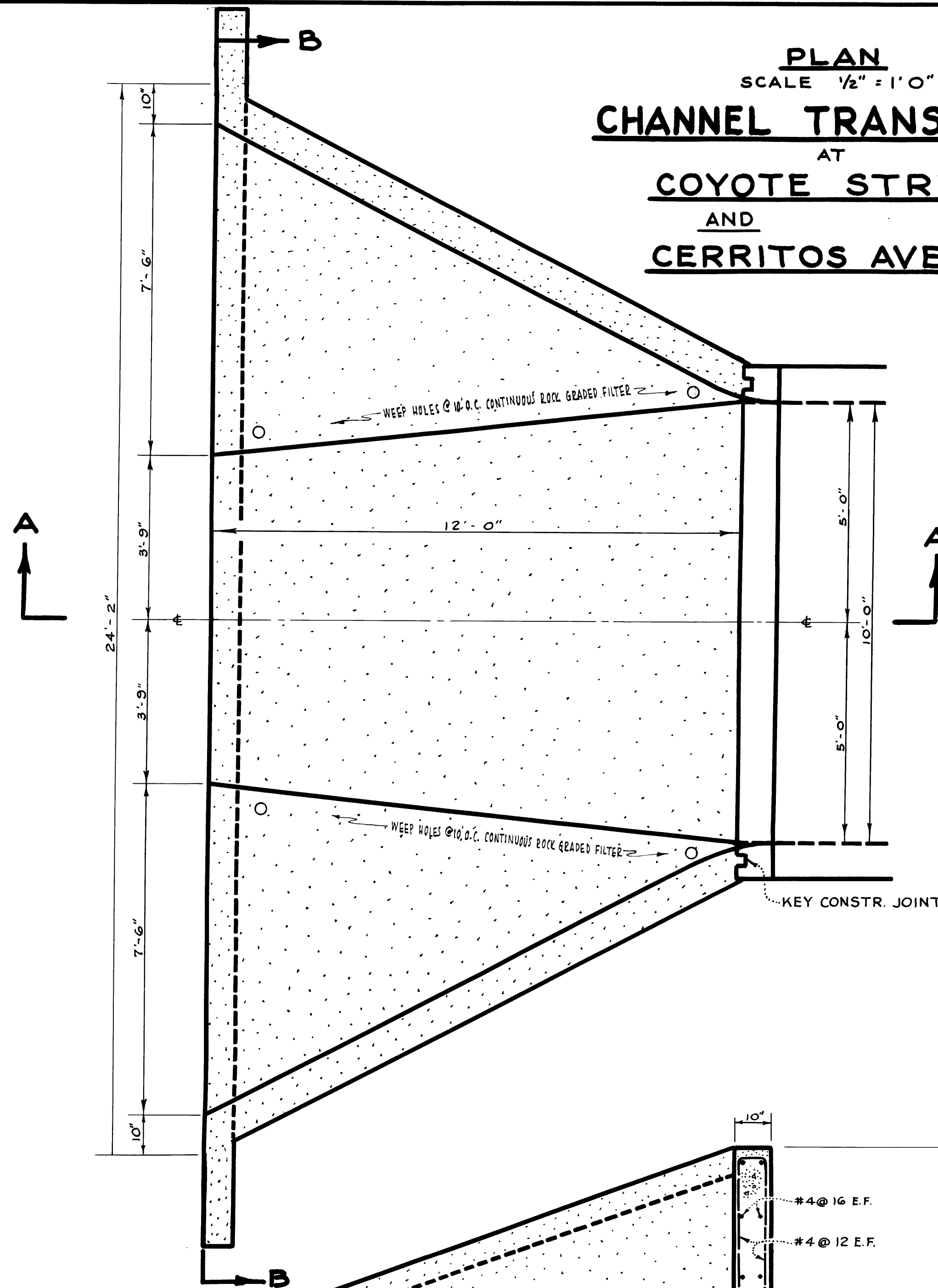


SECTION B-B
SCALE: $\frac{1}{2}" = 1'-0"$

NLY. CHANNEL TRANS. AT GARDEN GROVE BLVD.

DETAILS OF SLY. TRANSITION AT GARDEN GROVE BLVD.

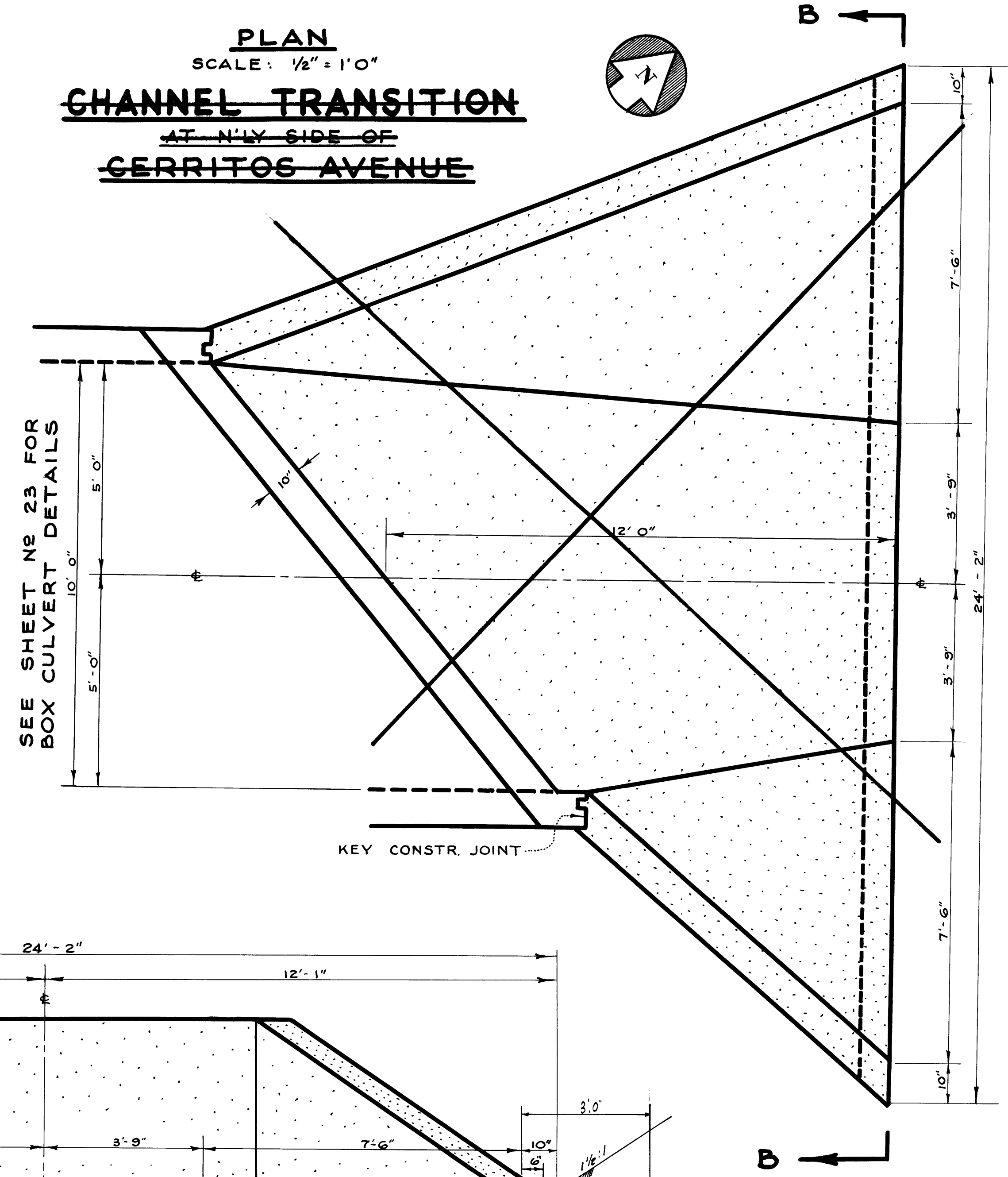
LOS ALAMITOS DRAINAGE CHANNEL C-1		
STRUCTURAL DETAILS		
DRAWN BY: R.M.V.	CHECKED BY:	DATE:
		24 OF 26



PLAN
SCALE: 1/2" = 1' 0"
CHANNEL TRANSITIONS
AT
COYOTE STREET
AND
CERRITOS AVENUE

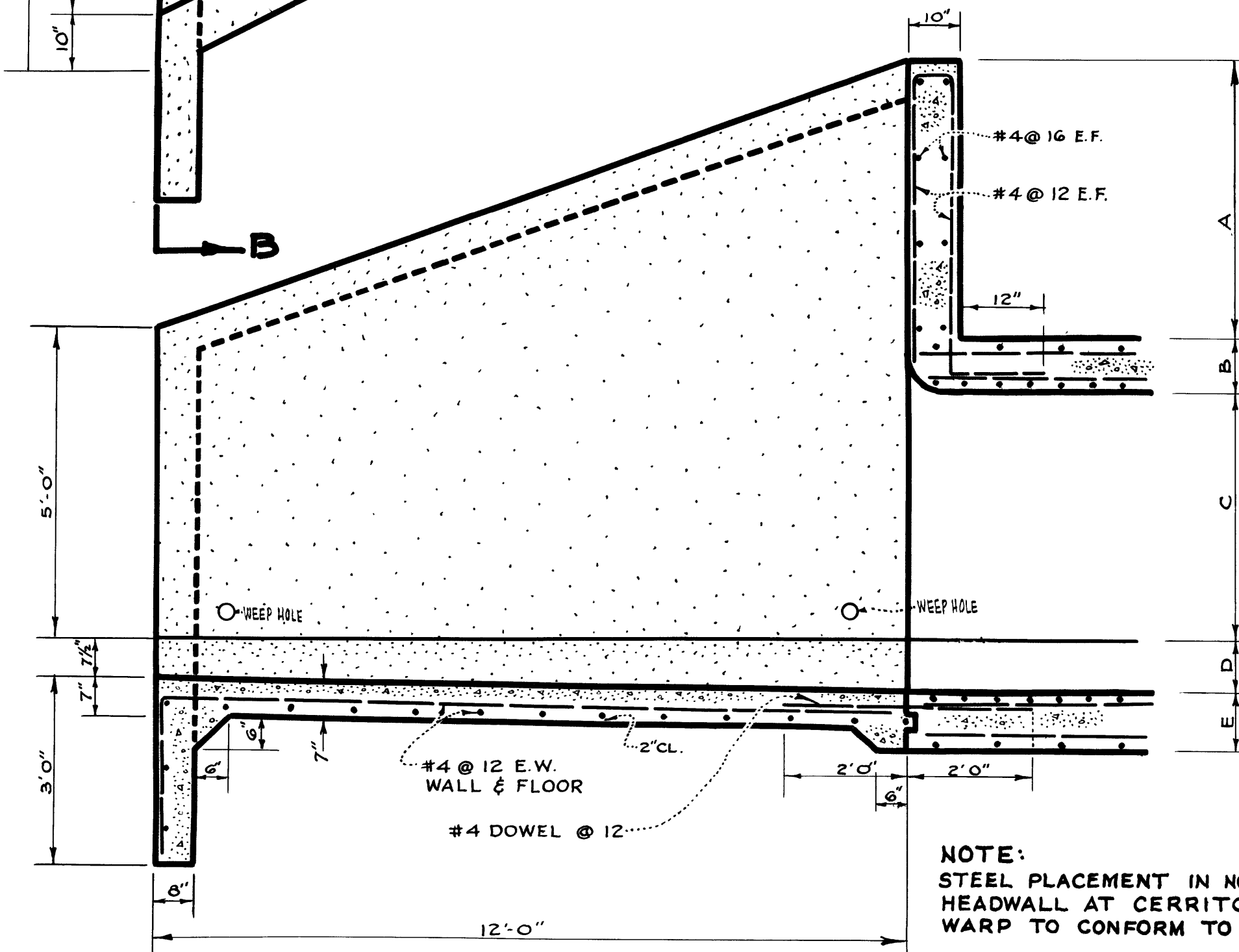
SEE SHEET NO 23 FOR
BOX CULVERT DETAILS

DIMENSIONS FOR SECTION A-A		
REF.	COYOTE ST.	CERRITOS AVE.
A	3' - 0" (N)	4' - 6"
	3' - 6" (S)	
B	0' - 8 3/4"	0' - 9 1/2"
C	4' - 0"	4' - 0"
D	0' - 10"	0' - 10"
E	0' - 8 1/2"	0' - 10 3/4"

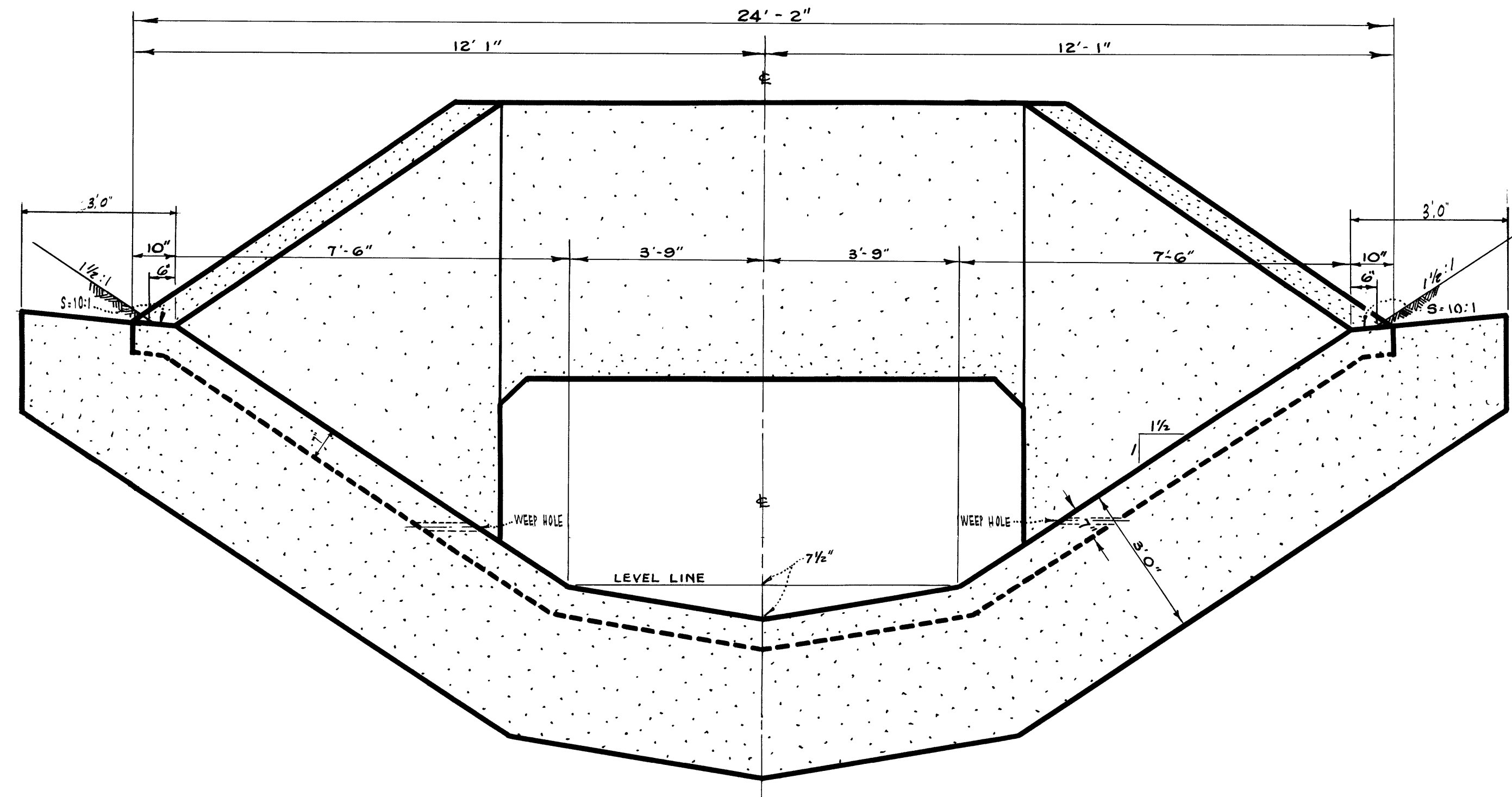


PLAN
SCALE: 1/2" = 1' 0"
CHANNEL TRANSITION
AT N'LY SIDE OF
CERRITOS AVENUE

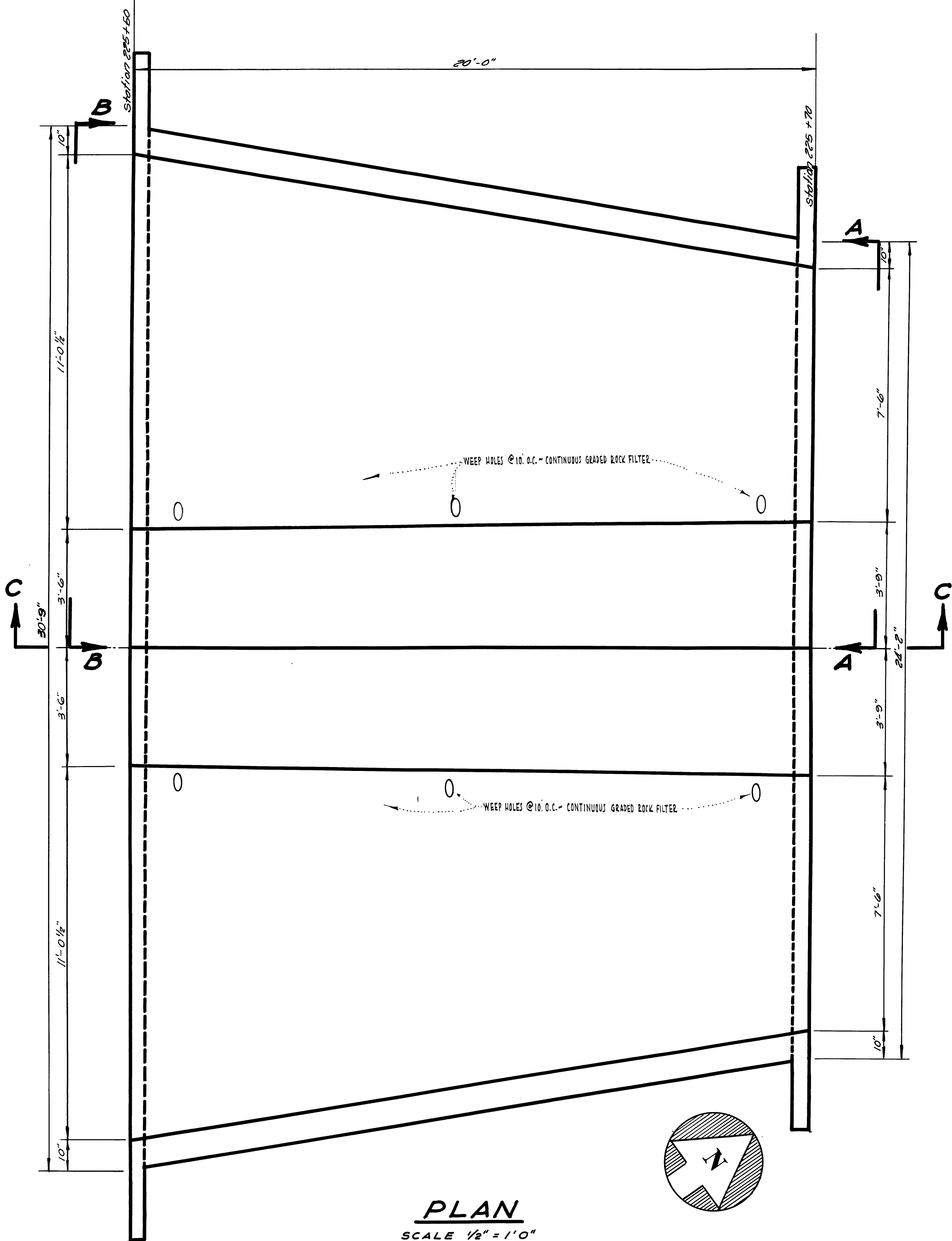
SEE SHEET NO 23 FOR
BOX CULVERT DETAILS



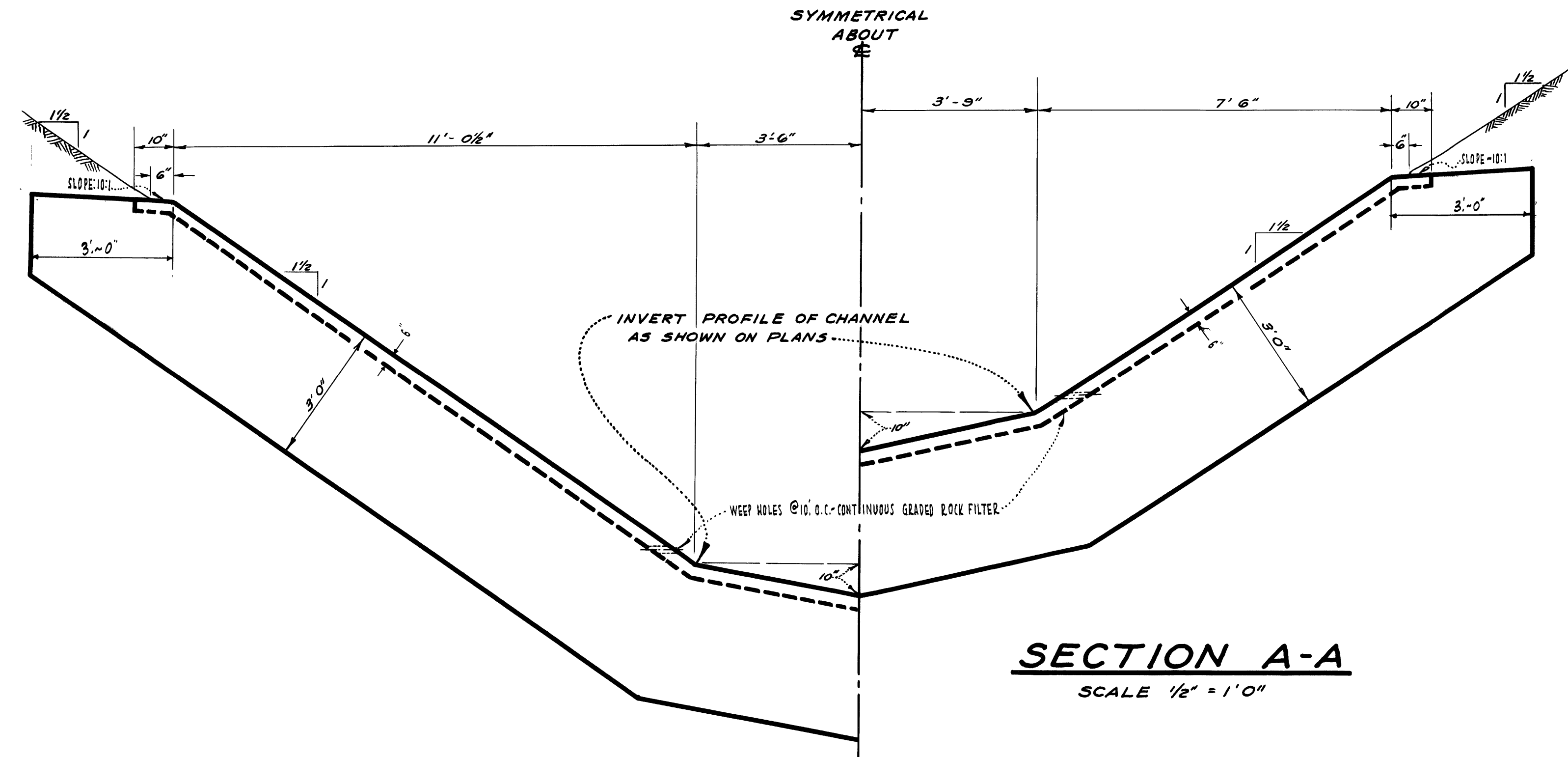
SECTION A-A
SCALE: 1/2" = 1' 0"



SECTION B-B
SCALE: 1/2" = 1' 0"

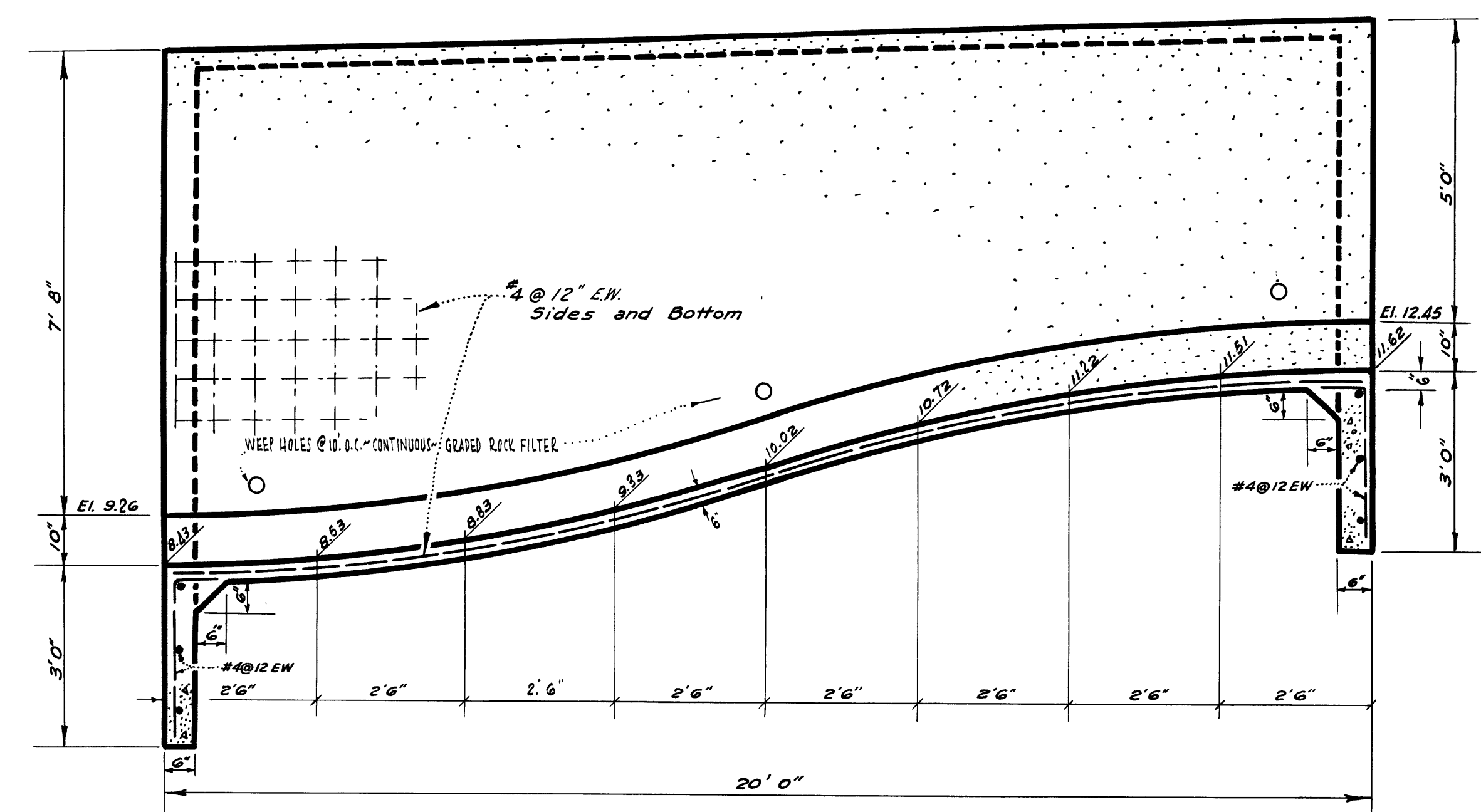


PLAN
SCALE 1/2" = 1'0"



SECTION A-A
SCALE 1/2" = 1'0"

SECTION B-B
SCALE 1/2" = 1'0"



SECTION C-C
SCALE 1/2" = 1'0"

**CHANNEL TRANSITION
AT KATELLA AVENUE**

LOS ALAMITOS DRAINAGE CHANNEL C-1			SHEET NO
STRUCTURAL DETAILS			26
DRAWN BY: D. E. S. W. L. S.	CHECKED BY:	DATE:	OF 26