

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	216-A-R #3	1	

COLORADO STATE HIGHWAY DEPARTMENT PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 216-A-R #3 STATE HIGHWAY NO. 6 PROWERS COUNTY

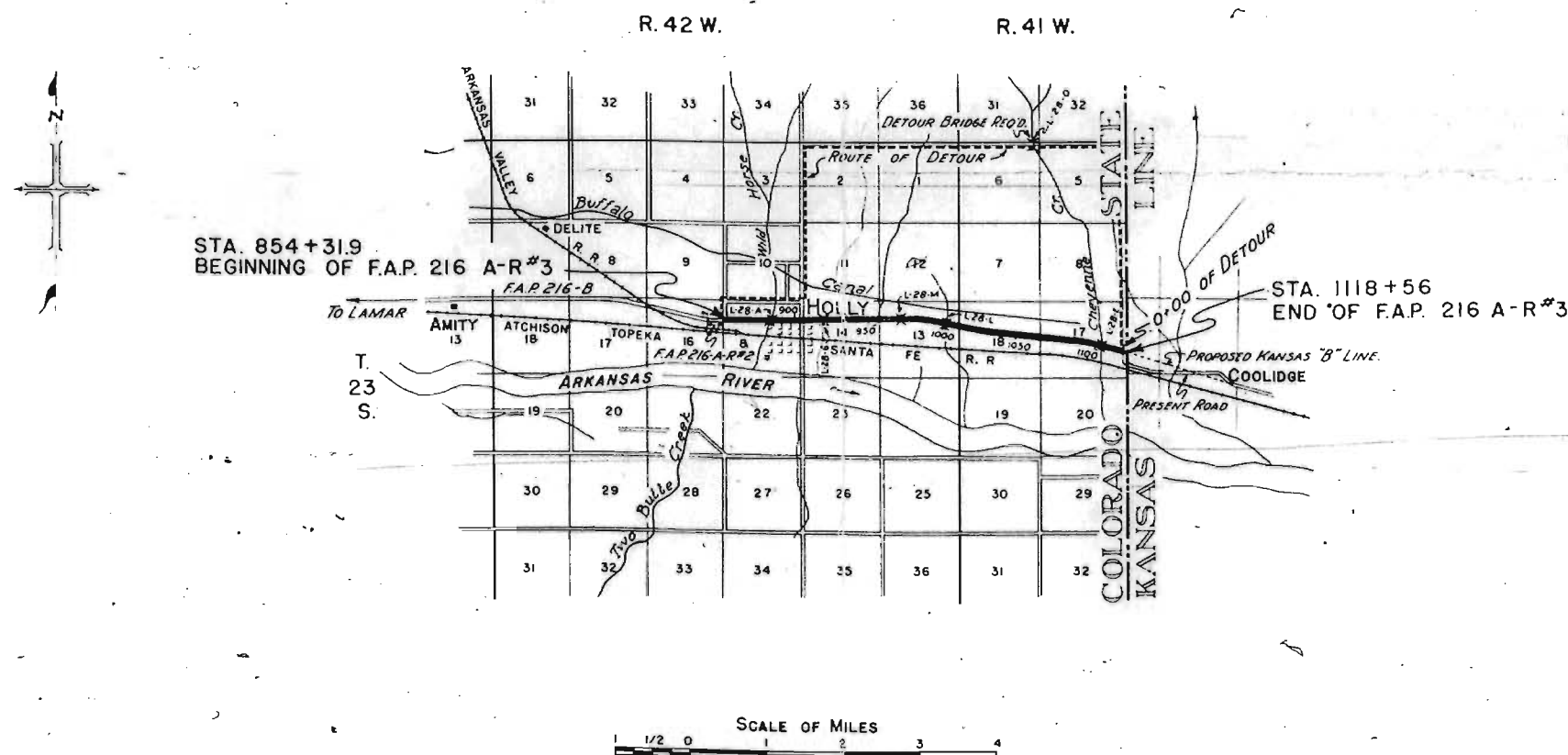
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10.	" " " " 917+	
11.	" " " " 971+	
12.	" " " " 1001+	
13.	" " " " 1103+	
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CONVENTIONAL SIGNS

CENTER LINE OF SURVEY 1030
RIGHT OF WAY LINES
TOWNSHIP OR RANGE LINES
SECTION LINES
ONE QUARTER SECTION LINES
RAILROAD TRACKS
BARBED WIRE FENCE
POLE LINES

SCALE OF ORIGINAL TRACINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE, 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT }
NET LENGTH OF PROJECT } 26,425.3 FEET = 5.004 MILES.



NOTE
It is recommended that bidders on this Project go over the plan details with one of the following field representatives of this Department.
J. D. Bell Division Engineer Pueblo, Colo.
L. A. Rose Resident " Lamar, Colo.

RECOMMENDED FOR APPROVAL 5/5/34
J. E. Walcott ASSISTANT ENGINEER
APPROVED Char O'Hair STATE HIGHWAY ENGINEER
RECOMMENDED FOR APPROVAL
DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED
DIRECTOR BUREAU PUBLIC ROADS

R. O. W. MARKERS

STATION	SIDE	NO.
904+11 (Ahead)	R & L	2
930+86	L	1
930+88	R	1
957+44	L	1
957+46	R	1
983+86	L	1
983+88	R	1
1009+96	L	1
1010+14	R	1
1037+00	L	1
1037+12	R	1
1063+98	L	1
1064+12	R	1
1090+80	L	1
1090+94	R	1
1117+80	L	1
TOTAL		17

WIRE CABLE GUARD FENCE

STATION	LIN. FT.	
	LEFT SIDE	RIGHT SIDE
917+23 to 917+73	50	50
918+48 to 918+98	50	50
971+13 to 971+63	50	50
972+38 to 972+88	50	50
1001+13 to 1001+63	50	50
1002+38 to 1002+88	50	50
1103+35 to 1103+85	50	50
1105+53 to 1106+03	50	50
TOTAL		800

TABULATION OF STRUCTURES (TABULATION CONTINUED FROM SHEET NO. 4)

STATION	DESCRIPTION	REMOVE STRUCT. NO.	EXCAVATION CU. YDS.		STRUCTURAL EXCAV. CU. YDS.	UNTR. BRIDGE TIMBER MT. DM.	CONCRETE CU. YDS.	REIN. STEEL LBS.	CORR. MET. CULVERT PIPE LIN. FT.				CORR. MET. SIPHON PIPE LIN. FT.				RELAYING PIPE LIN. FT.	MISCELLANEOUS
			EXCAV.	EMB.					18"	24"	36"	15"	18"	24"				
921+60	Road Approach, Lt.			50														
942+88	Remove 24" 36' C.M.P. & Relay at 905+51																	
943+28	" 24" 36' " " " 944+00.																	
944+00	Relay 24" C.M.P. Side Drain on Lt. from 943+28				3												36	
	Road Approach, Lt.			50														
955+94	Remove Culvert	1																
956+00	6' 2' 60' Concrete Box Culvert & Inlet		10		180		50.0	4305										
957+16	Road Approach, Lt.			25	50		4.3	260						949			2-24" Trash Guards	
957+36	24" 90' C.M.P. Siphon H=2.0																	
	Remove Siphon	1																
957+43	Road Approach, Lt.			25														
970+84	Remove 24" 30' C.M.P. & Relay at 979+38																	
971+65 to 972+35.5	Treated Timber Bridge & Channel Change		200		(quantities in Summary)													
973+97	Remove Culvert	1																
972+18 to 997+14	Irrigation Ditch, Rt.		225														30	
979+38	Relay 24" C.M.P. Side Drain Lt. from 970+84				3													
	Road Approach, Lt.			25														
	Remove Culvert	1																
981+00 to 984+71	Irrigation Ditch, Lt.		50															
982+24	Road Approach, Lt.			25														
	Remove Culvert	1															30	
983+75	Relay 24" C.M.P. Side Drain on Rt. from 1002+57				2													
	Road Approach, Rt.			25														
983+60	Concrete Diversion Box on Rt.				5		2.1											
	Remove Timber Diversion Box, Rt.	1																
984+71	1 1/2' x 1 1/2' x 46' Concrete Box Culvert				35		15.6	1728										
	Concrete Diversion Box on Rt.				5		2.1											
	Remove Timber Diversion Box, Rt.	1																
	" 21" 34' C.M.P. & Relay at 984+90																	
984+84	Road Approach, Lt.			25														
984+90	Relay 21" C.M.P. Side Drain from 984+71				3												34	
	Road Approach, Rt.			25														
985+75	Concrete Check, Rt.				2			07										
985+85	Remove Timber Weir, Rt.	1																
986+75	Concrete Diversion Box on Rt.				5		2.1											
990+38	C.M.P. Side Drain & Road Approach, Rt.			25	3							30						
	" " " in Irrigation Ditch, Rt.				2							20						
997+14	Relay 18" C.M.P. Side Drain Rt. from 1044+07				3												30	
	Road Approach, Rt.			25														
	Remove Culvert	1																
1000+70	Tr. Timber Bridge & Channel Improvement		200		(quantities in Summary)													
1001+65 to 1002+35.5	Remove 24" 30' C.M.P. & Relay at 983+75																	
1002+57	" Culvert	1																
1003+82	Relay 24" C.M.P. Side Drain Lt. from 1024+53				2												30	
1010+35	Road Approach, Lt.			25														
	Remove Culvert	1																
1015+36	"	1																
1022+00	3' 2' x 48' Conc. Box Culvert & Inlet & Outlet		20		35		26.3	2439										
1024+53	Remove 24" 30' C.M.P. & Relay at 1010+35																	
1026+00	Road Approach, Rt.			25														
1031+76	Relay 18" C.M.P. Side Drain Rt. from 1063+00				3												36	
	Road Approach, Rt.			25														
	Remove Culvert	1																
1034+13	"	1																
1036+34	Extend 24" C.M.P. 44' Rt. & Change Ditch		10		5							44						
	Remove Headwall	1																
1037+00	Road Approach, Rt.			25														
1044+07	Remove 18" 30' C.M.P. & Relay at 997+14																	
1050+50	" 18" 20' " " " 1085+00																	
	Road Approach, Rt.			25														
1052+43	"			25														
1061+00	"			25														
1063+00	Remove 18" 36' C.M.P. & Relay at 1031+76																	

(TABULATION CONTINUED ON SHEET NO. 6)

WVAX BY BB

N.W. 1/4 SEC. 15
T. 23 S., R. 42 W.

NOTE:
Concrete Curb and Gutter requirements are tabulated on sheet No. 2.
Concrete Sidewalk " " " " " 2.
Wire Cable Guard Fence " " " " " 5.
Fencing " " " " " 3.
Right of Way Marker " " " " " 5.

Sta. 864+70
Reqd. 30% 9'x60' Concrete Box Culvert.
Remove 18'x36' C.M.P. culvert.
Reqd. Concrete Diversion Box, as per
details shown on sheet No. 2.

HOLLY

Sta. 884+35 to 885+45
Reqd. 6 cu. yds. Class "B"
Concrete for wall along
sidewalk on Rt. & Lt. as
shown on sheet No. 2.

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
COLO.	216-A-R #3	23	

N.E. 1/4 SEC. 15
Rev. 5-12-36-DNS.
Rev. 5-22-36-A.Z.

Sta. 883+63.2 to 884+28.3
Reqd. Bridge Improvements, as per
details shown on sheets No. 6, 7, & 9.
Remove portions of old Bridge and
alter old Abutments.
(Structure notes on sheet No. 24)

Sta. 884+43.5
Reqd. to extend 15" C.M.P.
14' on Left.
Reqd. 1 cu. yd. Class "A"
concrete to raise top of
2'x2' conc. cleanout box on Rt.

Sta. 883+30 to 883+60
Reqd. 100 cu. yds. embankment
& 65 sq. yds. concrete pavement
for road approach Lt.

Sta. 854+31.9
Project Marker in place.

Sta. 855+00 to 864+70
Reqd. 250 cu. yds. uncl.
excavation for irrigation
ditches, Rt. & Lt.

Sta. 864+75
Adjust Manhole
to pavement.

Sta. 853+93.8 BACK
END OF F.A.P. 216 ARD
EQUALS
Sta. 854+31.9 AHEAD
BEGINNING OF F.A.P. 216 AR #3

Sta. 855+00 to 858+00
Clearing and Grubbing
21 Trees.

Sta. 865+00 to 869+00
Transplant 15 shrubs.

Sta. 864+59
Reqd. 100 cu. yds. embank.
for road approach Rt.

Sta. 865+52
Reqd. 50 cu. yds. embank.
for road approach Rt.

Sta. 866+10
Reqd. 50 cu. yds. embank.
for road approach Rt.

Sta. 866+82
Reqd. 50 cu. yds. embank.
for road approach Rt.

Sta. 867+00
Reqd. 50 cu. yds. embank.
for road approach Rt.
FORCE ACCOUNT WORK:
Sta. 870+68
Move House & Foundation.
Sta. 871+64 - Move Gas Pump

Remove Concrete Sidewalk as follows:
Sta. 866+45 - 270 sq. ft.
" 882+00 - 100 " "
" 885+00 - 100 " "
" 876+00 - 200 " " (Cross Walk)
Total 670 " "

Remove Concrete Curb and Gutter as follows:
Sta. 871+61 to 877+75 - 614 lin. ft. on Left.
" 880+00 to 882+75 - 275 " " "
" 870+80 to 877+ - 620 " " " Right.
" 880+00 to 882+35 - 235 " " "
" 885+00 to 885+50 - 100 " " " Rt. & Lt.
Total 1844 lin. ft.

Sta. 870+00 to 875+00
Reqd. concrete shoulders 7" thick and 14 to 28 ft. wide on each
side of the 20 ft. pavement; and a cut-off wall is to be
provided on the lower side of the pavement between Sta.
871+26 and 871+66 as shown on sheet No. 2. The speci-
fications covering the construction of concrete pavement
are to govern in the construction of these concrete
shoulders and cut-off wall.

The concrete shoulders including the cut-off wall are
to be paid for at the unit price per square yard bid for
"Concrete Pavement" and for "Sand Cushion" in place.

NOTE
Between Sta. 870+90.4 and 873+85.4 the curve is not to
be Superelevated. Between Sta. 865+00 and 876+00 the
typical section is to be modified to provide for drainage
to the low point in the pavement at Sta. 871+50. The
pavement is to be so laid that the drainage will pass
over the pavement between Sta. 871 and 872+ and
drain to the South at Smith Street.

NOTE:
1/4" premoulded ex-
pansion joint material
shall be used between
edge of gutter and pav-
ing slabs; between
sidewalk and back of
curb; between approach
slabs and adjacent curbs,
walks, and pavement.

Clearing and Grubbing
Sta. 880 to 886 -
Scattered trees.

EXCAV.
EMBANK. 15%
BORROW
STA TO OVERHAUL
STA-MI OVERHAUL
BORROW SOURCE

855

860

865

870

875

880

885

N.E. 1/4 SEC. 15
T. 23 S., R. 42 W.

HOLLY

Remove Concrete Sidewalk as follows:
Sta. 886+00 ~ 200 sq. ft. (Cross walk)
" 888+80 ~ 200 " " " "
" 889+40 ~ 200 " " " "
" 892+30 ~ 200 " " " "
" 892+90 ~ 200 " " " "
Total 1000 " "

N.W. 1/4 SEC. 14

FED. ROAD DIST. NO.	STATE	FED. AID. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	216-A-R #3	24	

Rev. 5-22-36 A.Z.

Sta. 904+44
Relay 18' 6" C.M.P. side drain Lt.

Sta. 905+51
Relay 24' 30" C.M.P. side drain
on Lt. removed at Sta. 942+88.
Reqd. 50 cu. yds. embank. for
road approach Lt.
Remove 15' 26" C.M.P. culvert.

Sta. 906+30
Relay 24' 24" C.M.P. side drain
on Lt. removed at Sta. 917+74.
Reqd. 50 cu. yds. embank. for
road approach Lt.
Remove 15' 18" C.M.P. culvert.

Sta. 910+23
Relay 24' 30" C.M.P. side drain
on Lt. removed at Sta. 917+74.
Reqd. 50 cu. yds. embank. for
road approach Lt.
Remove 18' 20" C.M.P. culvert and
Relay at Sta. 906+31.

Sta. 884+50 to 885+30
Reqd. 15 cu. yds. Class "B" Concrete
for retaining wall on Rt. as shown
on sheet No. 2.

NOTES FOR IMPROVEMENTS FOR BRIDGE, STA. 883+63.2 TO 884+28.3 STRUCT. NO. L-28-A

PRESENT STRUCTURE:

Span - 60' 0"
Clear roadway - 20' 0" with 5' sidewalks.
Clear waterway - 260"
Type of Superstructure - Low Steel Truss
Type of Substructure - Concrete Semi-Gravity
Requirements as to removal - Superstructure and Portions
of abutments.

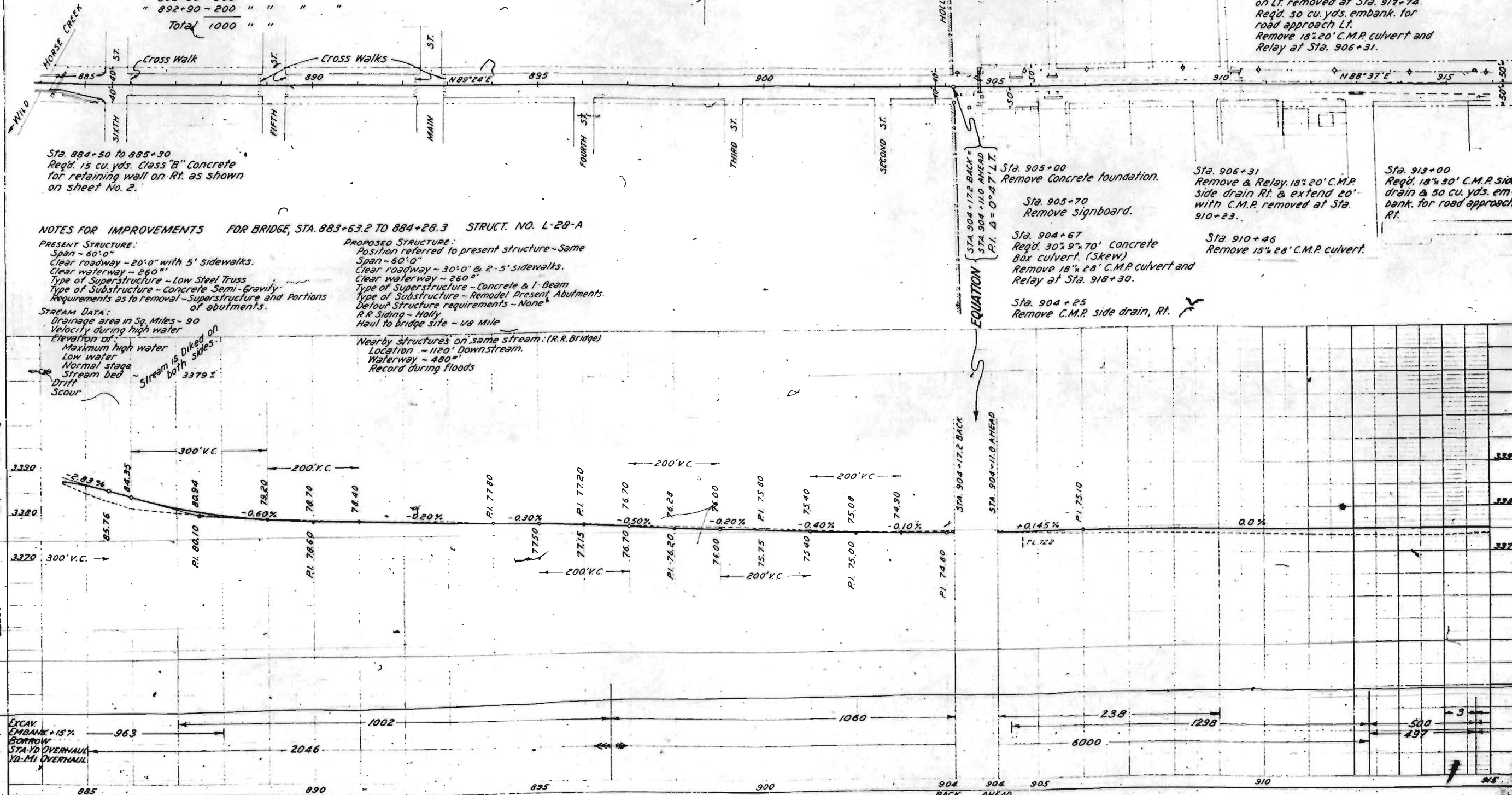
STREAM DATA:

Drainage area in Sq. Miles - 90
Velocity during high water
Elevation of:
Maximum high water
Low water
Normal stage
Stream bed
Drift
Scour

PROPOSED STRUCTURE:

Position referred to present structure - Same
Span - 60' 0"
Clear roadway - 30' 0" & 2' 5" sidewalks.
Clear waterway - 260"
Type of Superstructure - Concrete & I-Beam
Type of Substructure - Remodel Present Abutments.
Detour Structure requirements - None
R.R. Siding - Holly
Haul to bridge site - 1/8 Mile

Nearby structures on same stream: (R.R. Bridge)
Location - 1120' Downstream.
Waterway - 480"
Record during floods



N.W. 1/4 SEC. 14

N.E. 1/4 SEC. 14
T. 23 S., R. 42 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	216-A-R-3	25	

Sta. 917+56
Reqd. 18" 90' C.M.P. siphon.
H=2.5
Remove siphon.
Remove concrete wall.
Remove 18" 12' culvert.

Sta. 917+74
Relay 36" 50' C.M.P. side drain
on Lt. removed at Sta. 1077+00.
Reqd. 50 cu. yds. embankment
for road approach Lt.
Remove 24" 54' C.M.P. culvert and
Relay 24" at Sta. 906+30, and
Relay 30" " 910+23
Remove sheet piling.
Sta. 918+30
Relay 18" 28' C.M.P. side drain
on Lt. removed at Sta. 904+67.
Reqd. 50 cu. yds. embank. for
road approach Lt.

Sta. 921+33
Reqd. 18" 90' C.M.P. siphon.
H=3.0
Remove siphon.

Sta. 921+60
Reqd. 50 cu. yds. embank
for road approach Lt.

Sta. 942+88
Remove 24" 36' C.M.P. and
Relay at Sta. 905+51.

Sta. 944+00
Relay 24" 36' C.M.P. side drain
on Lt. from Sta. 943+28.
Reqd. 50 cu. yds. embank. for
road approach Lt.

PI Sta. 943+00
PI Sta. 944+38.3

Δ 1'23" R.
D 0'30"
T 138.4'
L 276.7'
R 11460'

Sta. 943+28
Remove 24" 36' C.M.P. and
Relay at Sta. 944+00.

Sta. 920 to 970. spoil bank located between highway and canal

Canal

Sta. 917+75 to 918+45.5
Reqd. Treated Timber Bridge - 3 spans
@ 23' as per details shown on sheet
No. 10.
Remove 8'x7'x44' Concrete Box Culvert.
Reqd. 1180 cu. yds. uncl. excavation for
channel improvement.
Excavated material to be used in
roadway embankment.
Remove hand rails.

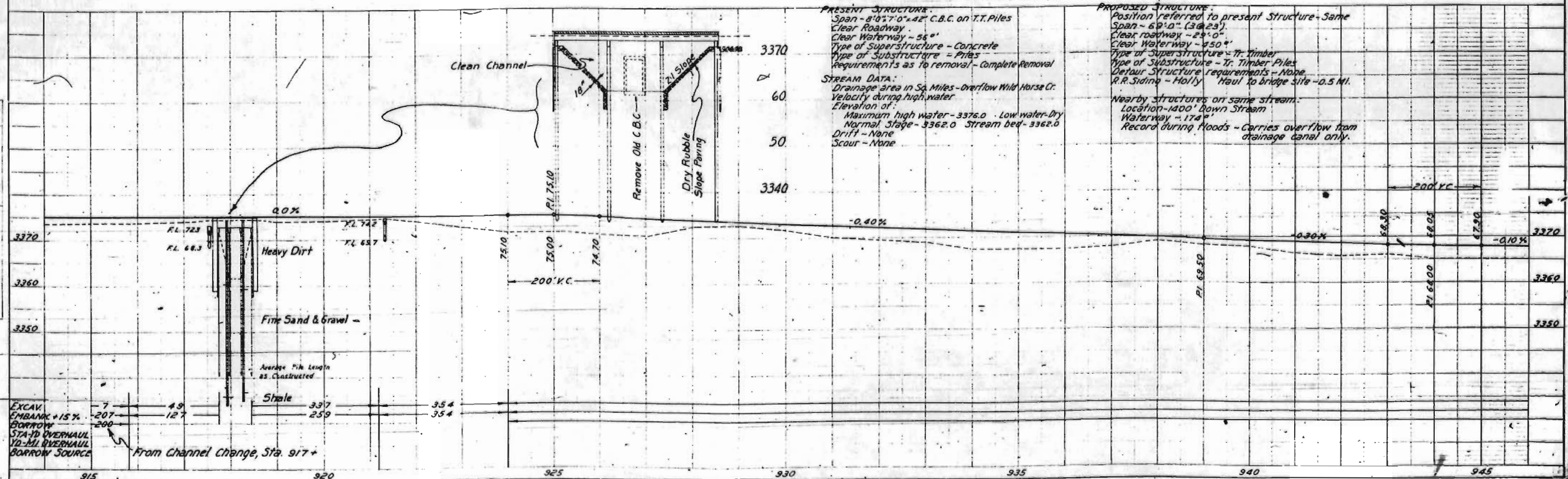
STRUCTURE NOTES FOR BRIDGE, STA. 917+75 TO 918+45.5 STRUCTURE NO. L-28-6

PRESENT STRUCTURE:
Span - 8'0" 7'0" x 42" C.B.C. on T.T. Piles
Clear Roadway - 56'
Clear Waterway - 56'
Type of Superstructure - Concrete
Type of Substructure - Piles
Requirements as to removal - Complete Removal

STREAM DATA:
Drainage area in Sq. Miles - Overflow Wild Horse Cr.
Velocity during high water
Elevation of:
Maximum high water - 3376.0 Low water - Dry
Normal Stage - 3362.0 Stream bed - 3362.0
Drift - None
Scour - None

PROPOSED STRUCTURE:
Position referred to present Structure - Same
Span - 69'0" (30' 23")
Clear Roadway - 24'0"
Clear Waterway - 450'
Type of Superstructure - Tr. Timber
Type of Substructure - Tr. Timber Piles
Detour Structure Requirements - None
R.R. Siding - Holly Haul to bridge site - 0.5 Mi.

Nearby structures on same stream:
Location - 1400' Down Stream
Waterway - 174'
Record during floods - Carries overflow from
drainage canal only.



N.E. 1/4 SEC. 14

N.W. 1/4 SEC. 13
T. 23 S., R. 42 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	216-A-R-3	26	

Sta. 957+16
Reqd. 25 cu. yds. embank.
for road approach Lt.

Sta. 957+43
Reqd. 25 cu. yds. embank.
for road approach Lt.

Sta. 970+84
Remove 24" C.M.P. culvert and
Relay at Sta. 979+38.

Sta. 973+97
Remove 36" 34' C.M.P. culvert.

Sta. 955+94
Remove 30" 30' C.M.P. culvert.

Sta. 957+36
Reqd. 24" x 90' C.M.P. siphon.
H=2.0
Remove 24" 36' siphon.

Sta. 956+00
Reqd. 6' x 2' x 60' Concrete Box
culvert & 10 cu. yds. uncl.
excavation for inlet.

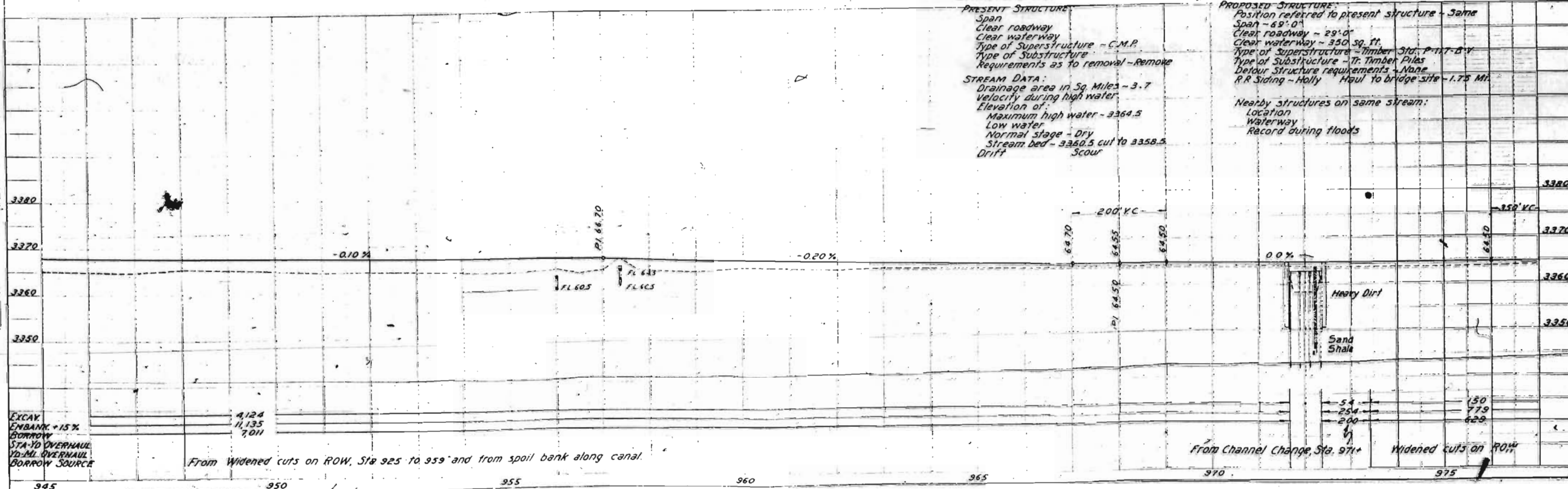
Sta. 971+65 to 972+35.5
Reqd. Treated Timber Bridge - 3 spans
@ 23' as per details shown on
Sheet No. 11.
Reqd. 200 cu. yds. uncl. excavation
for channel improvement.
Excavated material to be used in
roadway embankment.

STRUCTURE NOTES FOR BRIDGE, STA. 971+65 TO 972+35.5 STRUCTURE NO. L-28-M

PRESENT STRUCTURE:
Span - 69' 0"
Clear roadway - 29' 0"
Clear waterway - 350 sq. ft.
Type of Superstructure - C.M.P.
Type of Substructure - Requirements as to removal - Remove
STREAM DATA:
Drainage area in Sq. Miles - 3.7
Velocity during high water
Elevation of:
Maximum high water - 3364.5
Low water
Normal stage - Dry
Stream bed - 3350.5 cut to 3358.5
Drift Scour

PROPOSED STRUCTURE:
Position referred to present structure - Same
Span - 69' 0"
Clear roadway - 29' 0"
Clear waterway - 350 sq. ft.
Type of Superstructure - Timber Sta. P-117-B-V
Type of Substructure - Tr. Timber Piles
Detour Structure requirements - None
R.R. Siding - Holly Haul to bridge site - 1.75 Mi.

Nearby Structures on same stream:
Location
Waterway
Record during floods



EXCAV.
EMBANK + 15%
BORROW
STA-YO OVERHAUL
YO-ML OVERHAUL
BORROW SOURCE

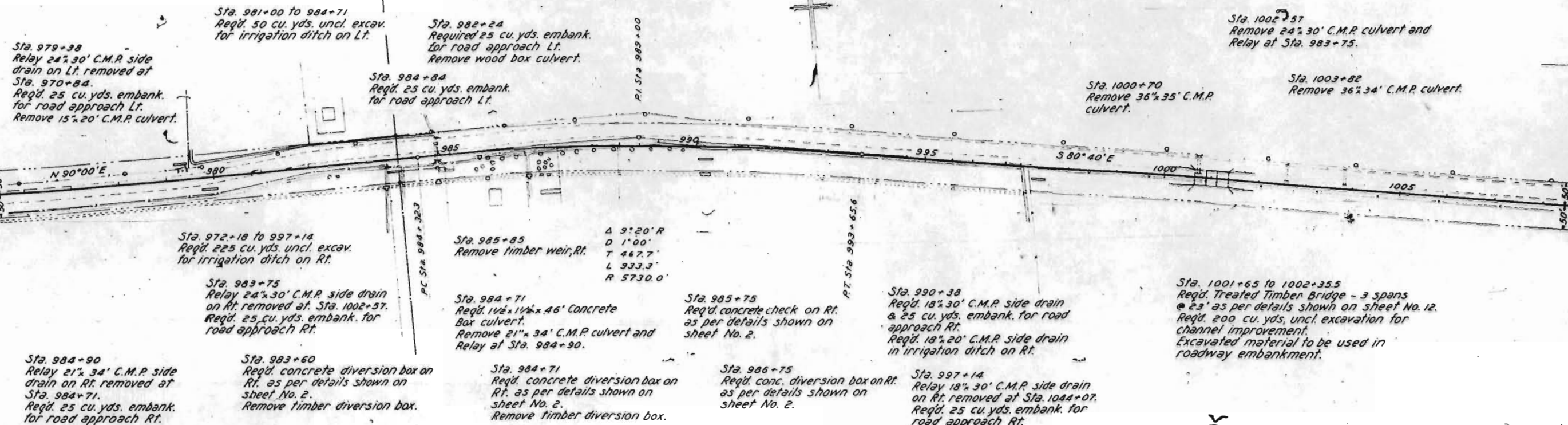
From Widened cuts on ROW, Sta. 925 to 959 and from spoil bank along canal.

From Channel Change, Sta. 971+ Widened cuts on ROW

N.W. 1/4 SEC. 13

N.E. 1/4 SEC. 13
T. 23 S., R. 42 W.

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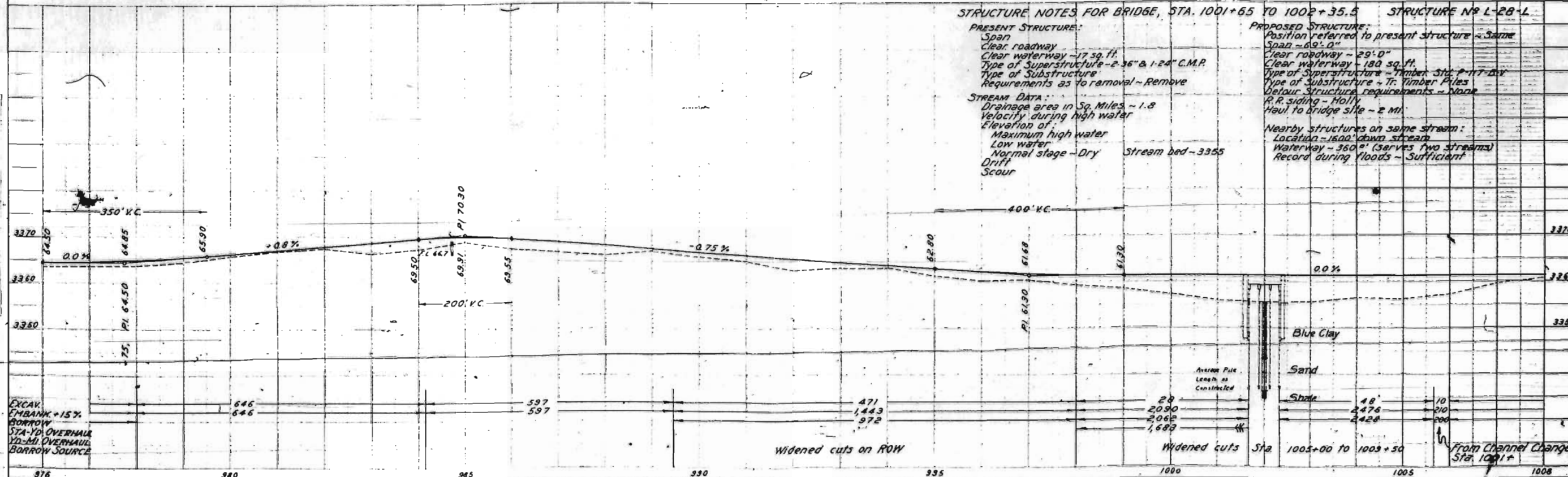
STRUCTURE NOTES FOR BRIDGE, STA. 1001+65 TO 1002+35.5

STRUCTURE NO. L-28-L

PRESENT STRUCTURE:
Span
Clear roadway - 17 sq. ft.
Clear waterway - 2-36" & 1-24" C.M.P.
Type of Superstructure -
Type of Substructure -
Requirements as to removal - Remove
STREAM DATA:
Drainage area in Sq. Miles - 1.8
Velocity during high water
Elevation of
Maximum high water
Low water
Normal stage - Dry
Drift
Scour

PROPOSED STRUCTURE:
Position referred to present structure - Same
Span - 69'-0"
Clear roadway - 29'-0"
Clear waterway - 180 sq. ft.
Type of Superstructure - Timber Sta. P-117-DIV
Type of Substructure - Tr. Timber Piles
Detour Structure requirements - None
R.R. siding - Holly
Haul to bridge site - 2 mi.

Nearby structures on same stream:
Location - 1600' down stream
Waterway - 360' (serves two streams)
Record during floods - Sufficient



EXCAV.
EMBANK. 15%
BORROW
STA-YD OVERHAUL
YD-AD OVERHAUL
BORROW SOURCE

Average Pile
Length as
Constructed

Widened cuts

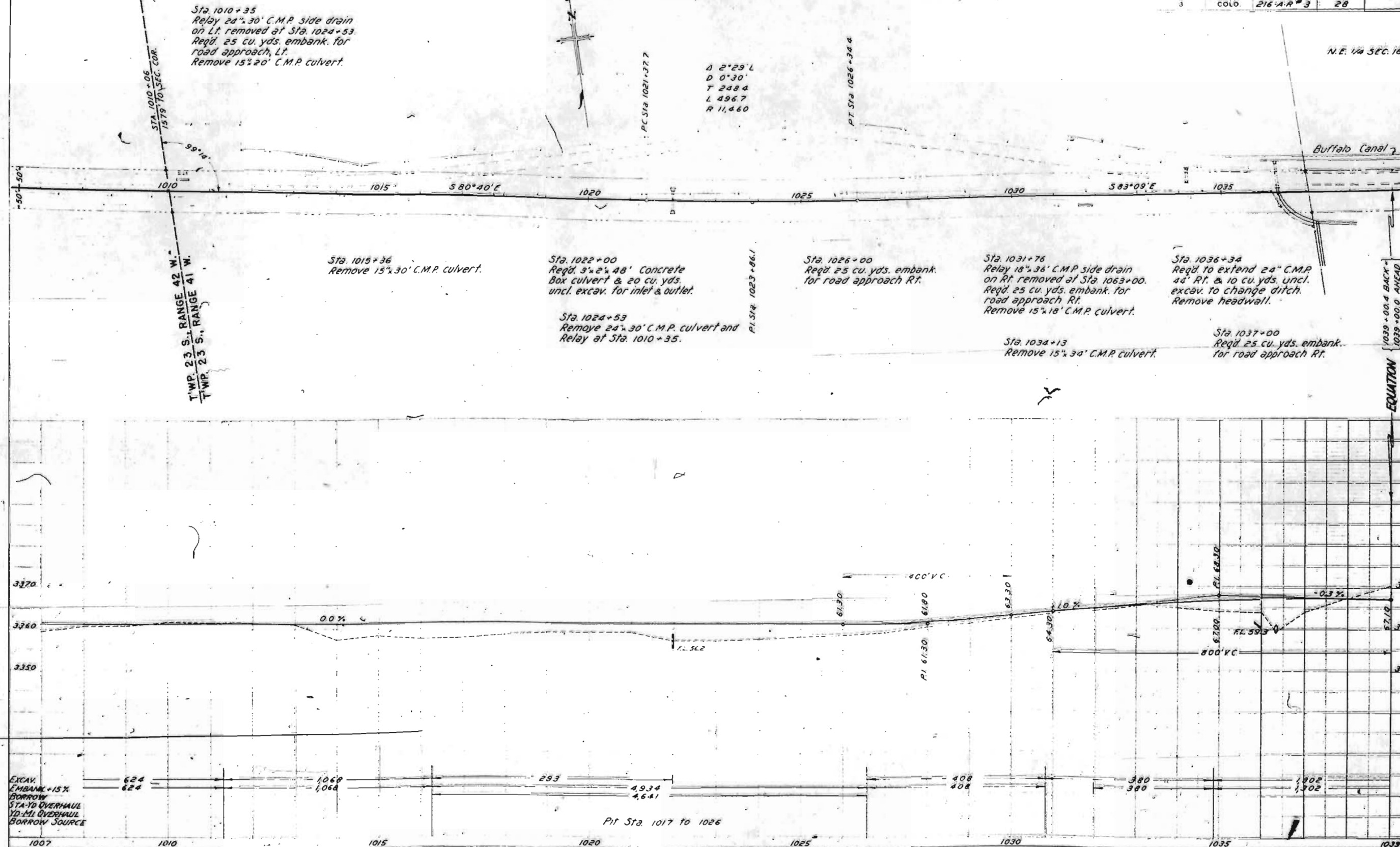
From Channel Change
Sta. 1001+

N.E. 1/4 SEC. 13
T. 23 S., R. 42 W.

N.W. 1/4 SEC. 18
T. 23 S., R. 41 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	216-A-R-3	28	

N.E. 1/4 SEC. 18



N.E. 1/4 SEC. 18
T.23S, R.41W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	216-A-R#3	29	

N.W. 1/4 SEC. 17

Sta. 1063+00
Remove 18" x 36" C.M.P. culvert and
Relay at Sta. 1031+76.

Buffalo Canal

Sta. 1044+07
Remove 18" x 30" C.M.P. culvert and
Relay at Sta. 997+14.

Sta. 1050+50
Reqd. 25 cu. yds. embank.
for road approach Rt.
Remove 18" x 20" C.M.P. culvert and
Relay at Sta. 1085+00.

Sta. 1052+43
Reqd. 25 cu. yds. embank.
for road approach Rt.

Sta. 1061+00
Reqd. 25 cu. yds. embank.
for road approach Rt.

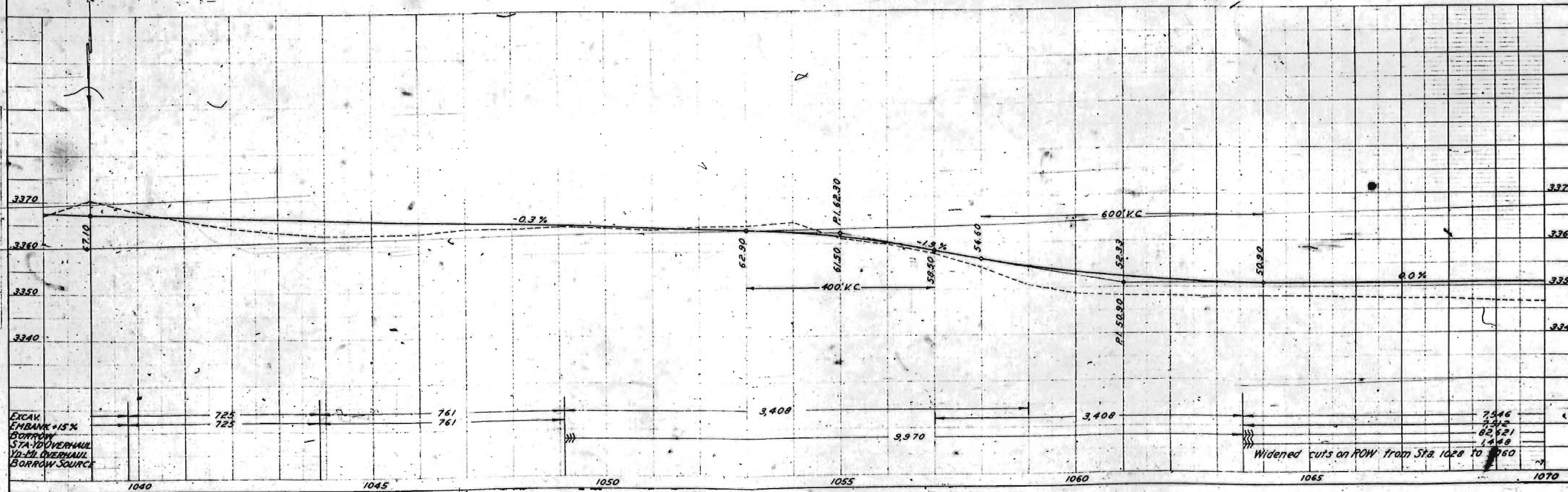
S.E. 1/4 SEC. 18

S.W. 1/4 SEC. 17

EQUATION 1039+00.4 BACK
1039+00.0 AHEAD

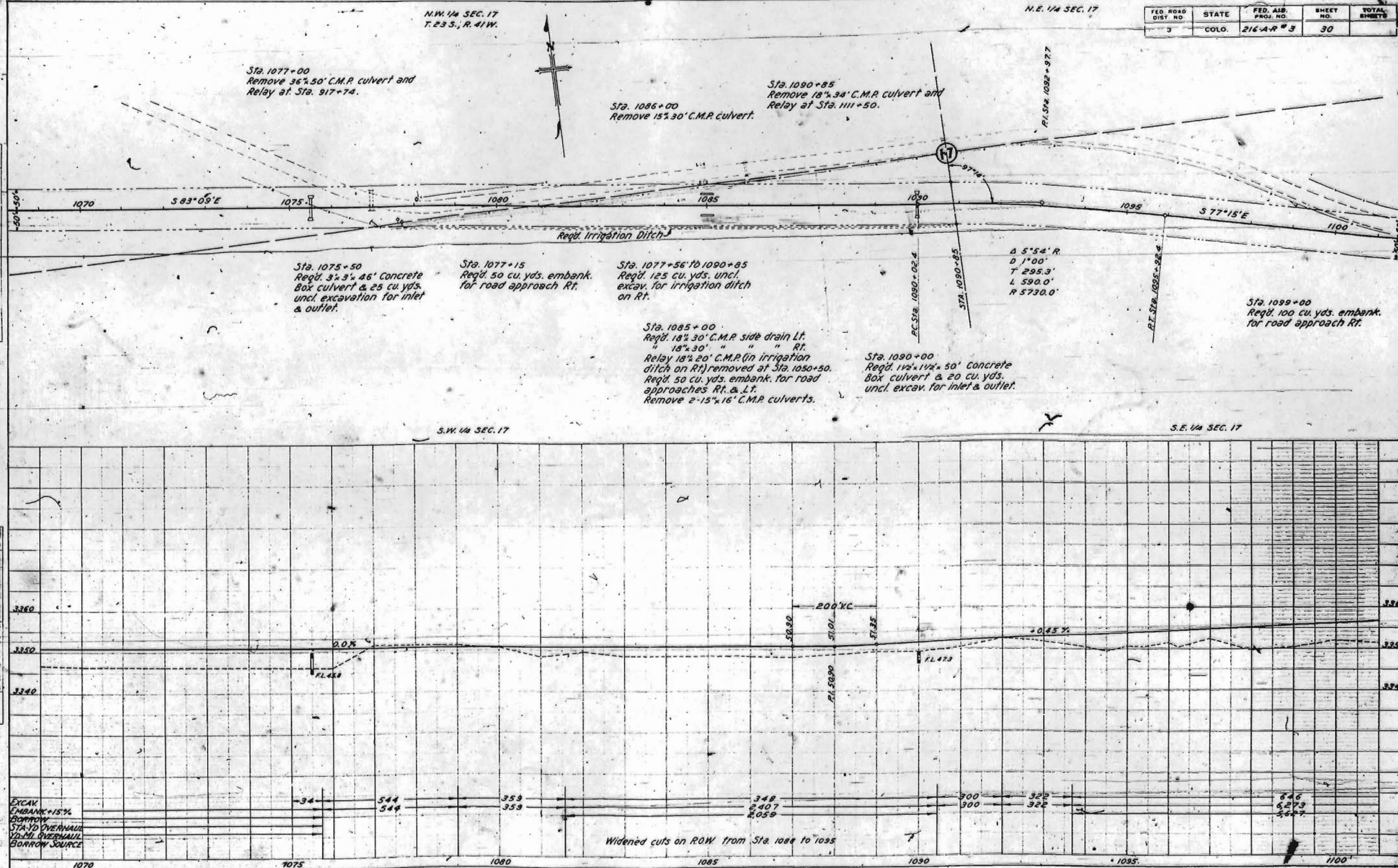
PLAN
SHEET
5667

PROFILE
SHEET
5667



PLAN	QUANTITY	UNIT	DATE
POLE BLOCK			
ALUMINUM CHANNEL			
1" x 1" x 1/2"			
NO. 5697			

PROFILE	DATE	BY	DATE
SUBMITTED			
NOTED			
DATE DEC 20 1961			
BY W. H. H. 12			
5667			
U.S. AIR FORCE			



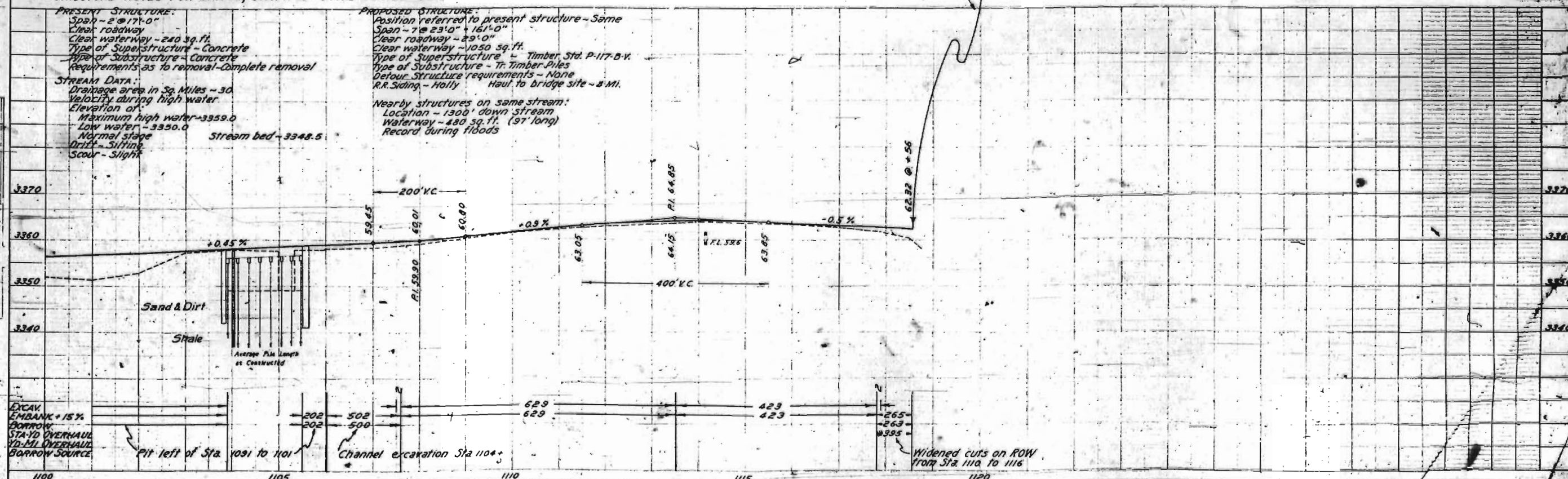
PLAN	STUDYING	ST	DATE
NOT: BOOK	ALL INFORMATION		
NO. 567	1 MAY 25 1963		

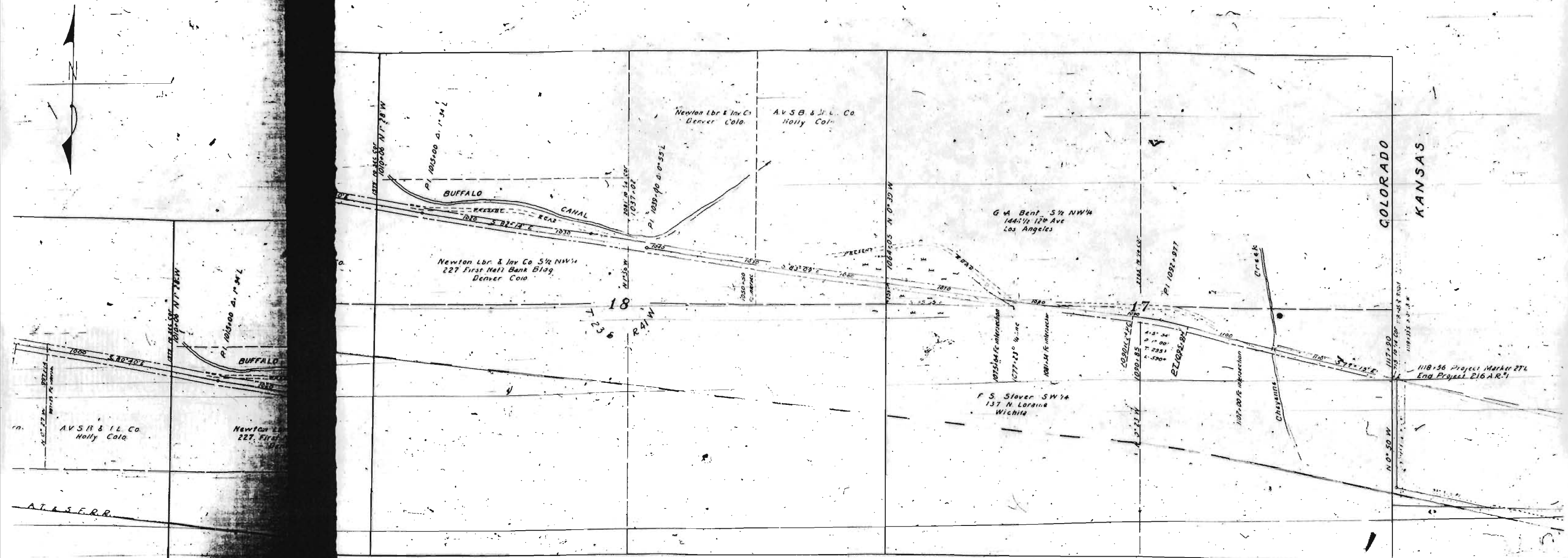


STA. 1118 + 56.0
END OF F.A.P. 216-A-R 3

KANSAS

Proposed Structure
Position referred to present structure - Same
Span - 71' 23" x 161' 0"
Clear roadway 21' 0"
Clear waterway 1050 sq. ft.
Type of Substructure - Timber Std. P-117-B-V
Type of Superstructure - Tr. Timber Piles
Deluxe Structure requirements - None
R.R. Siding - Holly Haul to bridge site - 5 Mi.
Nearby structures on same stream:
Location - 1300' down stream
Waterway - 480 sq. ft. (97' long)
Record during floods





R.O.W. MAP
FEDERAL AID PROJECT NO 216
STATE HIGHWAY NO 6
PROWERS COUNTY

