

FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3006	1	

3006.00

COLORADO STATE HIGHWAY DEPARTMENT PLAN AND PROFILE OF PROPOSED A. W. PROJECT NO. 3006 STATE HIGHWAY NO. 10 COSTILLA COUNTY

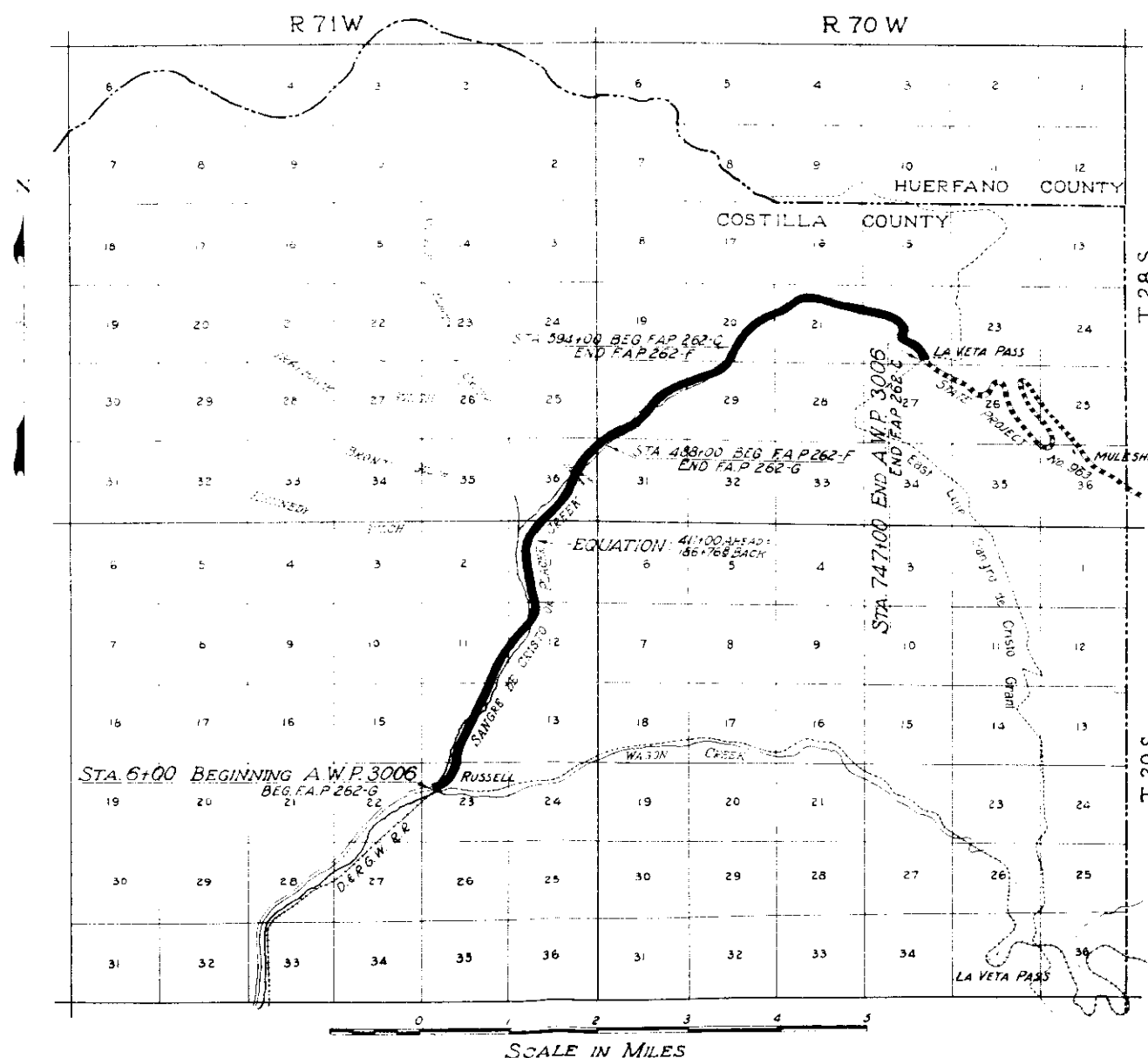
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CONVENTIONAL SIGNS

CENTER LINE OF SURVEY	—————
RIGHT OF WAY LINES	-----
SECTION LINES	-----
QUARTER SECTION LINES	-----
BARBED WIRE FENCE	-----
RAILROADS	-----

SCALES ON 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 52,372.9 FT. = 9.9 RM
NET LENGTH OF PROJECT 52,951 FT. = 9.885 MI.



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. R. Chaney Div. Engr. Durango
W. J. Walsh Res. Engr. Alamosa.

RECOMMENDED FOR APPROVAL 6/13/36

Chas. O. Hall
ASSISTANT ENGINEER

APPROVED
Chas. O. Hall
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED

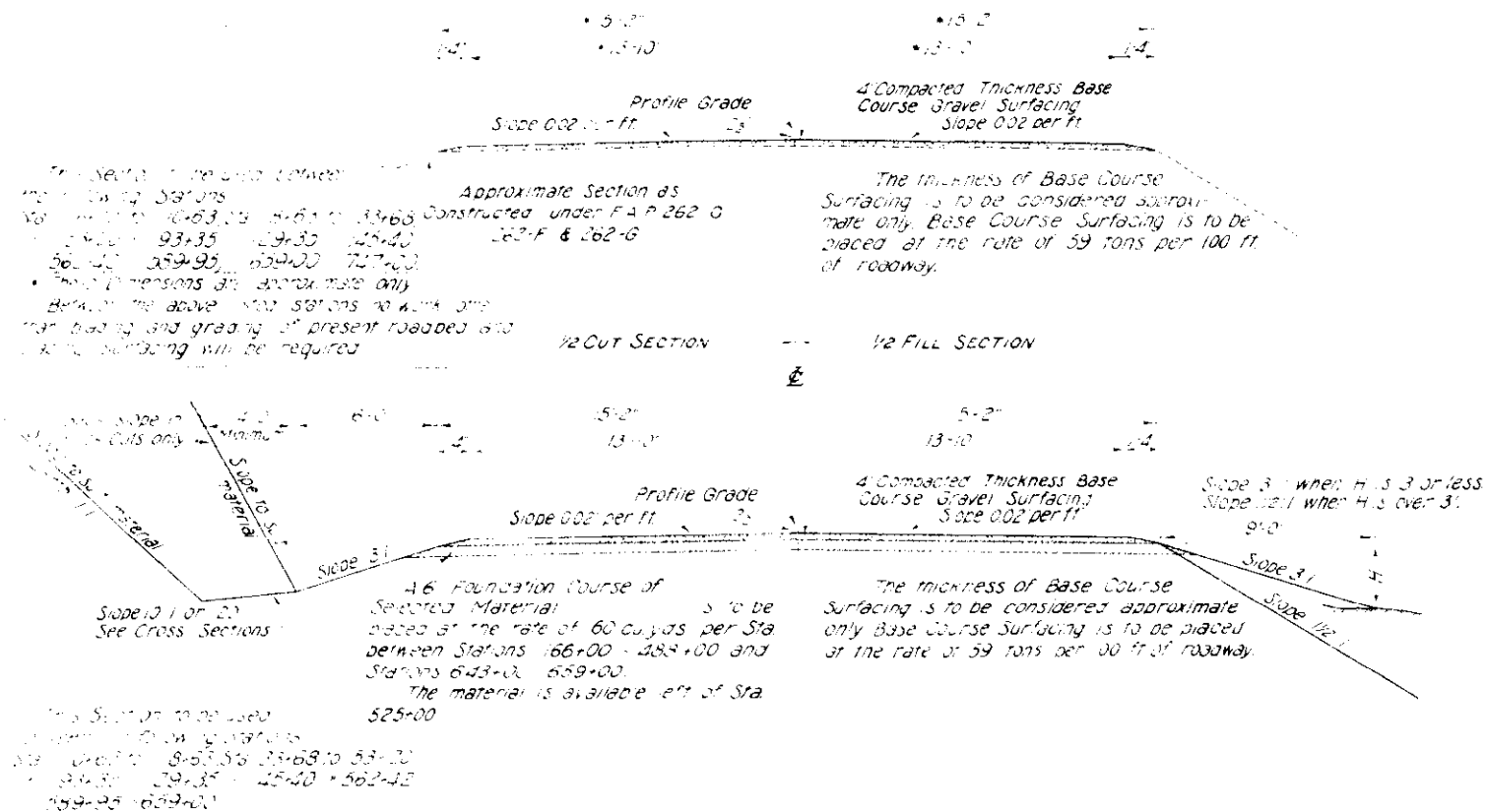
DIRECTOR BUREAU PUBLIC ROADS

FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3006	2	

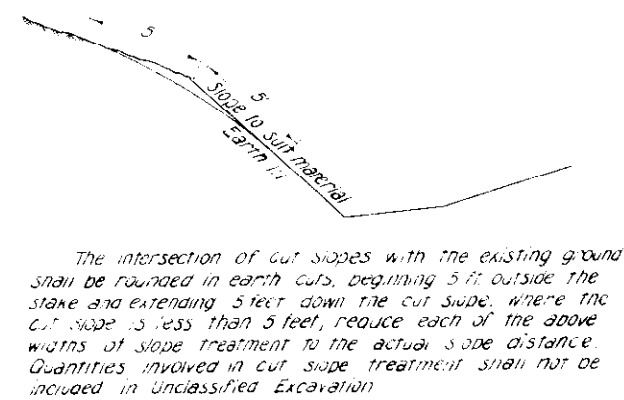
Revised 7-1-36 H.A.

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

TYPICAL SECTIONS



CUT SLOPE TREATMENT



SUMMARY OF APPROXIMATE QUANTITIES

No.	ITEM	UNIT	QUANTITY
10 a	Clearing & Grubbing Entire Project	L.S.	•
11 a	Removal of 15 Structures	L.S.	•
11 b	Removal of Concrete Headwalls	Each	5
11 c	Removing Dry Rubble Slope Paving	Sq. Yd.	50
12 a	Removing Fence	Lin. Ft.	24,000
13 c	Unclassified Excavation	Cu. Yd.	76,000
13 d	Cut Slope Treatment	Mi.	2
14 a	Dry Rock Excavation (Structural)	Cu. Yd.	50
14 b	Dry Common Excavation (Structural)	"	450
14 c	Wet Rock Excavation (Structural)	"	50
14 d	Wet Common Excavation (Structural)	"	450
18 a	Station Yard Overhaul	Sta. Yd.	152,000
18 b	Yard Mile Overhaul	Yd. Mi.	10,000
26 a	Gravel or Crushed Rock Surfacing	Ton	30,800
46 b	Class "B" Concrete	Cu. Yd.	73
53 a	15" Corrugated Metal Culvert Pipe	Lin. Ft.	12
53 b	18" " " " " " "	"	634
53 c	24" " " " " " "	"	392
53 d	30" " " " " " "	"	208
53 e	36" " " " " " "	"	156
59	Relaying Pipe	"	64
65	Dry Rubble Slope Paving 12" thick	Sq. Yd.	650
72 a	6" Perforated C.M.P. Underdrain	Lin. Ft.	8,924
76 b	Barbed Wire Fence with Untreated Wood Posts	"	25,000
76 g	Barbed Wire Gates	Each	2
110	Cement Rubble Masonry Manholes	Each	13
112	Blading & Grading Roadbed	Mi.	4

GENERAL NOTES

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted August 1, 1935.

All quantities on preliminary plans are to be considered approximate only.

A. Roadway excavation required to construct this Project is to be obtained as indicated on the plans. Quantities involved beyond the limits of the ditch as shown on the Typical Section (other notes on the Profile as shown) or on the List of Structures as embankment are to be classified and paid for as "Unclassified Excavation". These quantities are to be stated as part of the original excavation at locations indicated on the plans. Some stakes beyond the limits of the Typical Section as shown are subject to change by the Engineer to fit embankment requirements actually encountered in construction.

4. Corrugated Metal Pipe Cross Culverts are to be provided with one Standard Concrete Headwall on the inlet end unless otherwise noted on the Plans.

The common line of the project, lying between Sta. 6+00 to 6+63, Sta. 8+63 to 33+68, Sta. 53+20 to 93+35, Sta. 29+35 to 45+40, Sta. 562+42 to 589+95 and Sta. 589+00 to 643+00 shall be shaped by scarifying and blading or by other method acceptable to the Engineer to eliminate all ruts and irregularities in the roadbed and to produce a uniform, compact and undulating surface true to the Typical Section. This work shall be included in and paid for under the price bid per mile for "Blading and Grading Roadbed".

All curves are to be super-elevated and widened as provided by the Standard Super-elevation Sheet included in the Plans.

Clearing and grubbing shall be of variable widths and be held to the minimum required for the construction of the road and channel changes and to accommodate utility Ordinances. The clearing shall not extend more than 8 feet beyond the toes of cuts or the tops of cut banks.

SELECTED MATERIAL

The 6" thickness of Selected Material shown on the Typical Section shall be placed and spread in accordance with details shown on the Typical Section. This material is estimated to be available in the vicinity of pit indicated in the following tabulation.

Selected Material will be classified and paid for as "Unclassified Excavation".

Estimated quantities involved in this operation are as follows:

SOURCE	TO BE PLACED	QUANTITY CU. YDS.	OVERHAUL	
			STA. YDS.	YD. MI.
Pit Lt. Sta 525+00	166+00 - 188+00	5870	64,570	7771
Pit Lt. Sta 525+00	643+00 - 659+00	960	10,560	2000
TOTALS		6830	75,130	9771

FENCING REQUIREMENTS

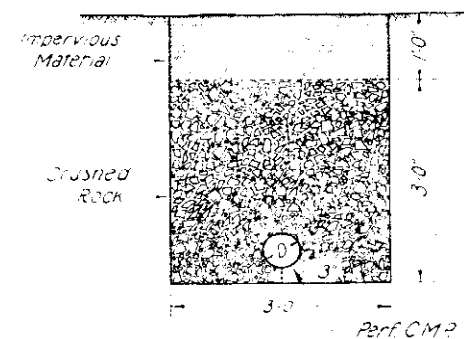
STATION	SIDE	REMOVE FENCE	BUILD B.W. FENCE	B.W. GATES
48+50 - 53+50	Rt.	510	530	
97+00 - 103+593	Lt.	660	670	
124+00 - 129+70	Rt.	590	630	
174+475 - 462+50	Rt.	6380	6435	
455+11 - 508+20	Lt.	5310	5370	
478+00	Lt.			1
535+15	Lt.			1
521+00 - 560+70	Lt.	3970	4000	
590+00 - 628+50	Lt.	3850	3900	
626+027 - 660+00	Rt.	3390	3420	
TOTALS		24660	24955	2

LIST OF STRUCTURES

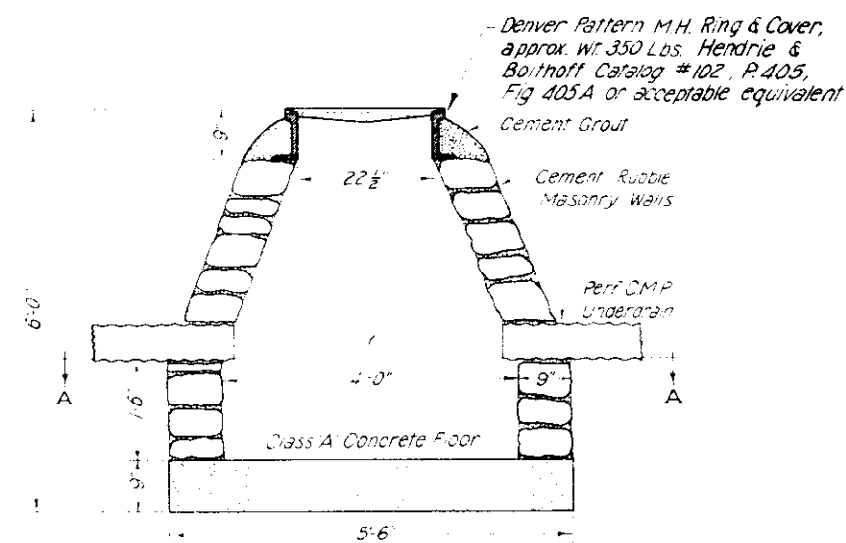
STATION		DESCRIPTION	REM. STRUCTURES	REM. HEAD WALLS	UNCLASSIFIED CUYDS.	STRUC. EXCAV.	CONCRETE CUYDS.	METAL CORRUGATED CULVERT LIN. FT.	PERF. C.M.P. UNDER PIPE LIN. FT.	RELAYING PIPE LIN. FT.	DRY RUBBLE SLOPE PAVING 12" TH. 50 YDS.	CEMENT RUBBLE MANHOLE
11+00	15+00											
11+00	13+30	Reqt. C.M.P. Cross Culvert, Remove 18"x30" C.M.P.	1	2	30	125	110	18"	48		50	25
13+30	15+00 - 15+50	Remove Howls & Extend C.M.P.		2	15							
15+00	37+00	Reqt. Dry Rubble Slope Pav. Lt. & Remove Dry Rubble Sl. Pav.		2								
37+00	45+00	Remove Howls & Extend C.M.P.		2	200							
45+00	51+60	Remove Howls & Extend C.M.P. Inlet & Outlet Ditches		2								
51+60	96+00	Remove Howls & Extend C.M.P.		2								
96+00	99+60	Remove Howls & Extend C.M.P.		2								
99+60	100+00	6" Perforated C.M.P. Underdrain		2								
100+00	100+00 - 114+60	Cement Rubble Masonry Manhole Lt.										
100+00 - 114+60	105+00	6" Perforated C.M.P. Underdrain Lt.										
105+00	110+00	Cement Rubble Masonry Manhole Lt.										
110+00	114+60	6" Perforated C.M.P. Underdrain		2								
114+60	101+00	Remove Howls & Extend C.M.P. Inlet		2								
101+00	106+60	Remove Howls & Extend C.M.P.		2								
106+60	121+00	Remove Headwalls & Extend C.M.P.		2	10							
121+00	150+00	Remove Howls & Extend C.M.P.		2								
150+00	154+00	Remove Howls & Extend C.M.P.		2								
154+00	154+50	Road Approach & C.M.P. Side Drain Lt. Rem. 10"x30" C.M.P. Lt.	1		50							
154+50	157+50	Road Approach & C.M.P. Side Drain Lt. Rem. 15"x18" C.M.P. Lt.	1		50							
157+50	163+60	Road Approach & C.M.P. Side Drain Lt. Rem. 10"x30" C.M.P. Lt.	1		50							
163+60	164+00	Remove Howls & Extend C.M.P.		2								
164+00	173+70	Remove Howls & Extend C.M.P.		2								
173+70	177+70	Remove Howls & Extend C.M.P.		2								
177+70	183+00	Relay 15"x30" C.M.P. & Extend										
183+00	178+00	6" Perforated C.M.P. Underdrain										
178+00	178+00 - 426+00	Cement Rubble Masonry Manhole Rt.										
178+00 - 426+00	415+00	6" Perforated C.M.P. Underdrain Rt.										
415+00	415+00	6" Perforated C.M.P. Underdrain										
415+00	414+40	Cement Rubble Masonry Manhole Rt.										
414+40	418+00	Remove Howls & Extend C.M.P.		2								
418+00	426+00	Remove Howls & Extend C.M.P.		2								
426+00	434+00	6" Perforated C.M.P. Underdrain, Howl & Outlet										
434+00	434+00	Cement Rubble Masonry Manhole Rt.										
434+00	434+00 - 438+00	6" Perforated C.M.P. Underdrain Rt.										
434+00 - 438+00	436+00	Relay 18"x30" C.M.P. & Extend 18"x30" C.M.P. Ditches										
436+00	442+36	Relay 18"x30" C.M.P. Extend										
442+36	442+75 - 444+25	Channel Imp. & Dry Rub Slope Pav. Lt. - Rem. Dry Rub Slope Paving										
442+75 - 444+25	447+75	Remove Headwalls & Extend C.M.P.		2								
447+75	448+25 - 448+75	Channel Imp. & Dry Rub Slope Pav. Lt. - Rem. Dry Rub Slope Paving										
448+25 - 448+75	452+00 - 455+30	Channel Imp. & Dry Rub Slope Paving Rt. - Rem. Dry Rub Slope Pav.										
452+00 - 455+30	455+00	Remove Headwalls & Extend C.M.P.		2								
455+00	457+75 - 462+25	Channel Imp. & Dry Rub Slope Pav. Rt. - Rem. Dry Rub Slope Paving										
457+75 - 462+25	463+75	Remove Howls & Extend C.M.P.		2								
463+75	469+00	Relay 18"x30" C.M.P. & Extend - Inlet Ditch										
469+00	474+00	Remove Howls & Extend C.M.P.		2								
474+00	475+60 - 476+40	Channel Imp. & Dry Rubble Slope Paving Rt.										
475+60 - 476+40	478+15	Remove Howls & Extend C.M.P.		2								
478+15	480+60	Remove Howls & Extend C.M.P.		2								
480+60	480+60 - 483+00	Outlet Ditch for Underdrain Lt.										
480+60 - 483+00	483+00 - 486+50	6" Perforated C.M.P. Underdrain - Headwall at Outlet Lt.										
483+00 - 486+50	491+50	Remove 18"x30" C.M.P. - Reqt. C.M.P. Culvert & Ditches	1									
491+50	494+25 - 495+50	Dry Rubble Slope Paving Rt.										
494+25 - 495+50	495+12	Remove 18"x30" C.M.P. - Reqt. C.M.P. Culvert & Inlet	1									
495+12	497+30	Remove Howl & Extend C.M.P.		1								
497+30	498+65	6" Perforated C.M.P. Underdrain										
498+65	499+00	Cement Rubble Masonry Manhole Lt.										
499+00	499+00 - 505+00	6" Perforated C.M.P. Underdrain Lt.										
499+00 - 505+00	499+50	6" Perforated C.M.P. Underdrain, Lateral Lt.										
499+50	501+50	6" Perforated C.M.P. Underdrain, Lateral Lt.										
501+50	503+50	Channel Change Rt.										
503+50	501+00 - 504+50	Reqt. C.M.P. Culvert - Inlet & Outlet Ditches										
501+00 - 504+50	502+00	Remove Howls & Extend C.M.P. - Outlet Ditch		2								
502+00	503+80	Reqt. C.M.P. Culvert & Inlet Ditch										
503+80	504+50	Dry Rubble Slope Paving Rt.										
504+50	510+00 - 511+50	Relay 36"x44" C.M.P. Culvert & Extend										
510+00 - 511+50	511+00	Channel Imp. & Dry Rubble Slope Paving Rt.										
511+00	518+75 - 519+50	Channel Imp. & Dry Rubble Slope Paving Rt.										
518+75 - 519+50	521+40 - 522+00	Channel Imp. & Dry Rubble Slope Paving Rt.										
521+40 - 522+00	524+45	Remove Howls & Extend C.M.P.		2								
524+45	524+25 - 526+00	Channel Improvement Rt.										
524+25 - 526+00	528+75	Remove Howls & Extend C.M.P. - Outlet Ditch		2								
528+75	532+55	Remove Howls & Extend C.M.P. - Outlet Ditch		2								
532+55	537+80	Reqt. C.M.P. Culvert & Outlet										
537+80	541+80	Reqt. C.M.P. Culvert - Inlet & Outlet Ditches										
541+80	542+40	Remove 18"x30" C.M.P. Culvert		1								
542+40	546+80	Remove 18"x30" C.M.P. - Reqt. C.M.P. Culvert & Ditches		1								
546+80	555+00	Remove 24"x30" C.M.P. Culvert		1								
555+00	555+30	Reqt. C.M.P. Culvert - Inlet & Outlet Ditches										
555+30	558+75	Remove Howls & Extend C.M.P.		2								
558+75	597+00	Remove Howls & Extend C.M.P.		2								
597+00	606+00	Remove 15"x28" C.M.P. - Reqt. C.M.P. Culvert										
606+00	612+00	Remove Howls & Extend C.M.P. - Outlet Ditch		1								
612+00	614+40 - 615+60	Channel Change & Dry Rubble Slope Paving Rt.		2								
614+40 - 615+60	621+20	6" Perforated C.M.P. Underdrain										
621+20	621+50	Cement Rubble Masonry Manhole Lt.										
621+50	621+50 - 625+00	6" Perforated C.M.P. Underdrain Lt.										
621+50 - 625+00	621+80	Remove 15"x28" C.M.P. - Reqt. C.M.P. Culvert & Outlet Ditch		1								
621+80	628+90	Dry Rubble Slope Paving at Underdrain Outlet Rt.										
628+90	628+90 - 638+50	6" Perforated C.M.P. Underdrain Rt.										
628+90 - 638+50	631+50	Cement Rubble Masonry Manhole Rt.										
631+50	634+00	Cement Rubble Masonry Manhole Rt.										
634+00	633+15	Remove 18"x128" C.M.P. - Reqt. C.M.P. Culvert		1								
633+15	640+00	Remove 15"x128" C.M.P. - Reqt. C.M.P. Culvert & Inlet Ditch		1								
640+00	642+00	Reqt. C.M.P. Culvert & Inlet Ditch										
642+00	643+50	Remove 12"x28" C.M.P. - Reqt. C.M.P. Culvert & Ditches		1								
643+50	643+65	6" Perforated C.M.P. Underdrain - Howl & Outlet										
643+65	644+00	Cement Rubble Masonry Manhole Rt.										
644+00	647+00	Cement Rubble Masonry Manhole Rt.										
647+00	644+00 - 657+00	6" Perforated C.M.P. Underdrain Rt.										
644+00 - 657+00	653+00	Cement Rubble Masonry Manhole Rt.										
653+00	649+82	Remove Howls & Extend C.M.P. - Inlet Ditch		2								
649+82	656+00	Remove 30"x28" C.M.P. - Reqt. C.M.P. Culvert & Ditches										
656+00	TOTALS											

• Structural Excavation is estimated to be 90% Common and 10% Rock.
• each of which is estimated to be 50% wet and 50% Dry.
• Includes for payment in Profile Quantities.
• Includes 450' V. Branch

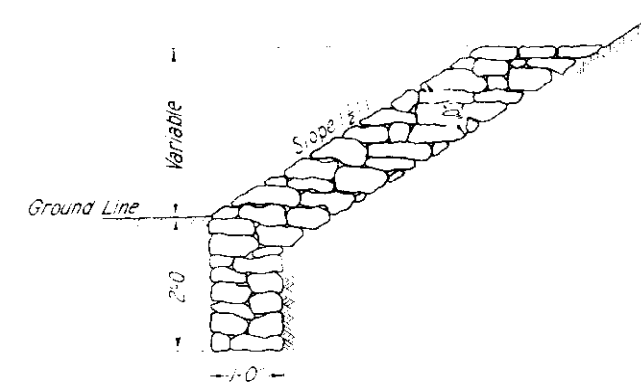
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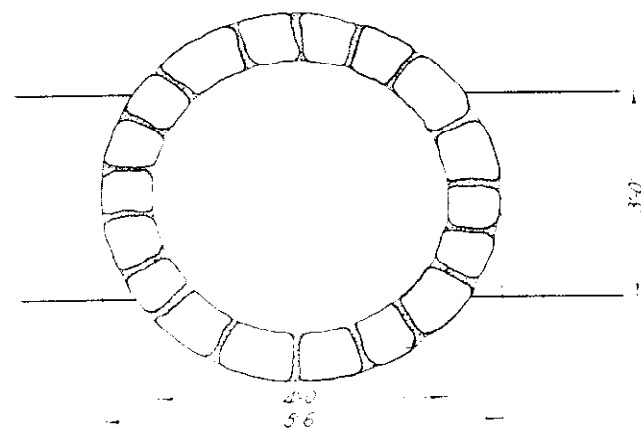
DETAIL OF PERFORATED
CMP UNDERDRAIN



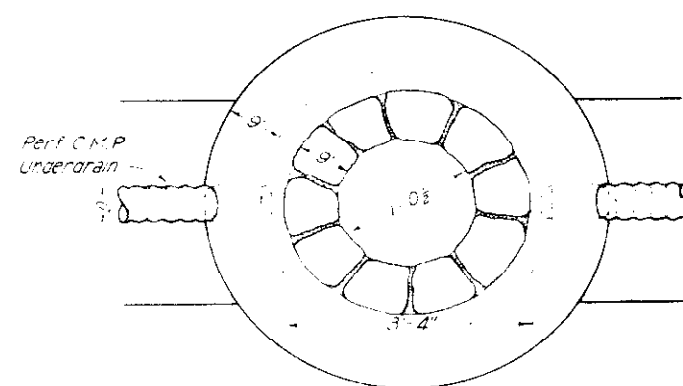
DETAILS OF MASONRY
MANHOLE



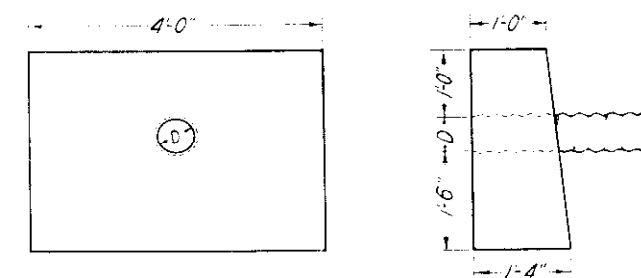
DRY RUBBLE SLOPE
PAVING



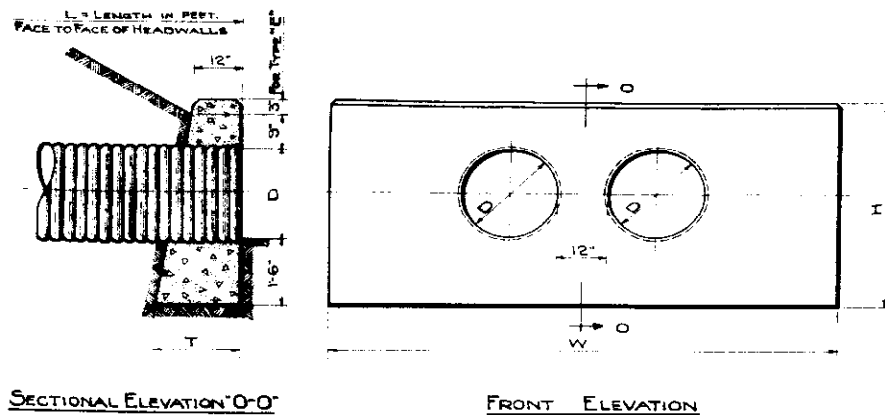
SECTION AA



PLAN VIEW
RING & COVER REMOVED

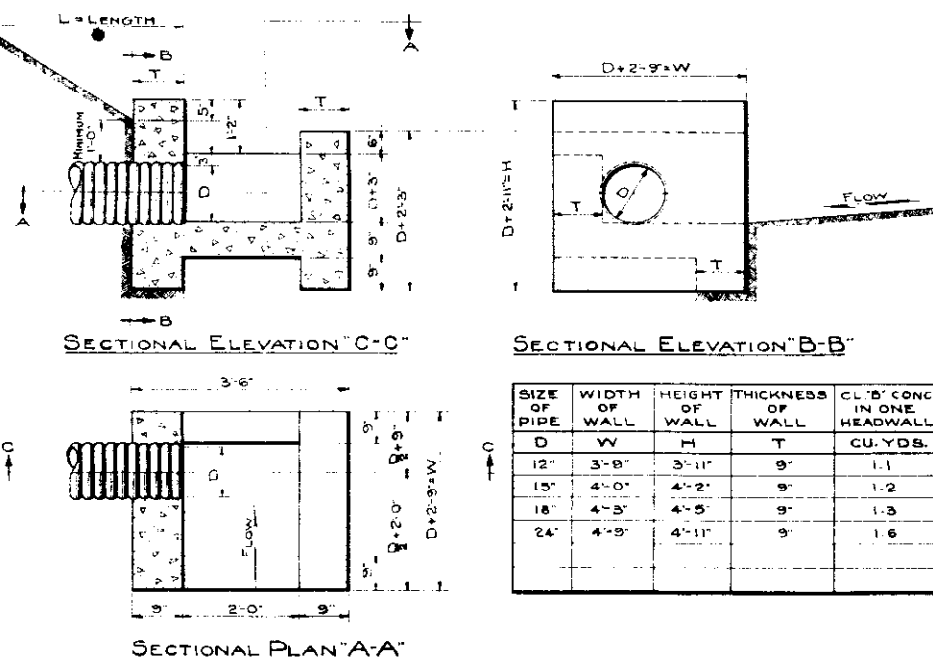


Req'd - 0.50 Cu Yds of
Class "B" Concrete
HEADWALL FOR CMP
UNDERDRAIN

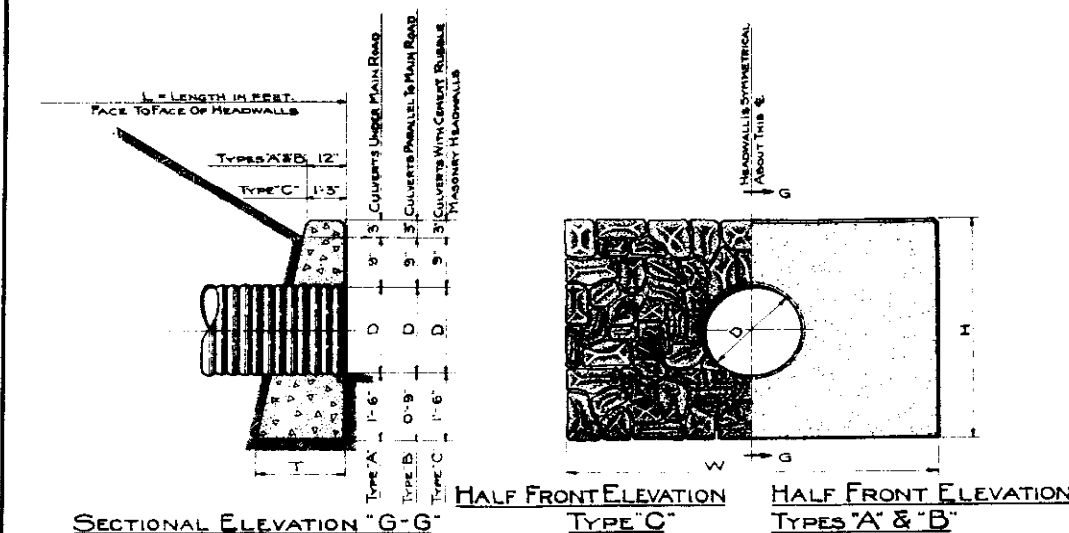


DIAMETER OF PIPE	WIDTH OF HEADWALL	HEIGHT OF HEADWALL	THICKNESS OF HEADWALL	CL. B' CONCRETE FOR 2 HEADWALLS	CORRUGATED METAL PIPE	CEMENT RUBBLE MASONRY
12"	12'-0"	12'-0"	1'-0"	2.2 CU. YDS.	16 GAGE 2xL = LIN. FT.	
15"	15'-0"	15'-0"	1'-0"	3.1 do	16 do 2xL = do	
18"	18'-0"	18'-0"	1'-0"	4.5 do	14 do 2xL = do	
24"	24'-0"	24'-0"	1'-0"	7.6 do	12 do 2xL = do	

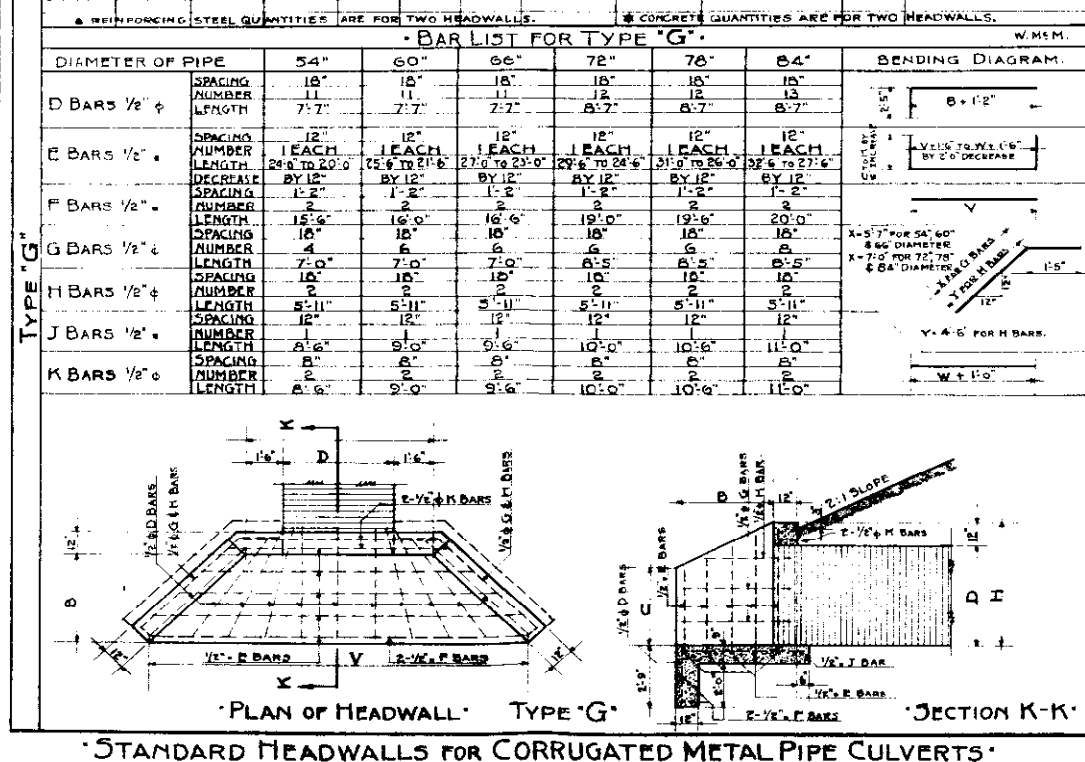
STD. HEADWALLS FOR DOUBLE CORRUGATED METAL PIPE CULVERTS.



INTERCEPTING HEADWALLS.

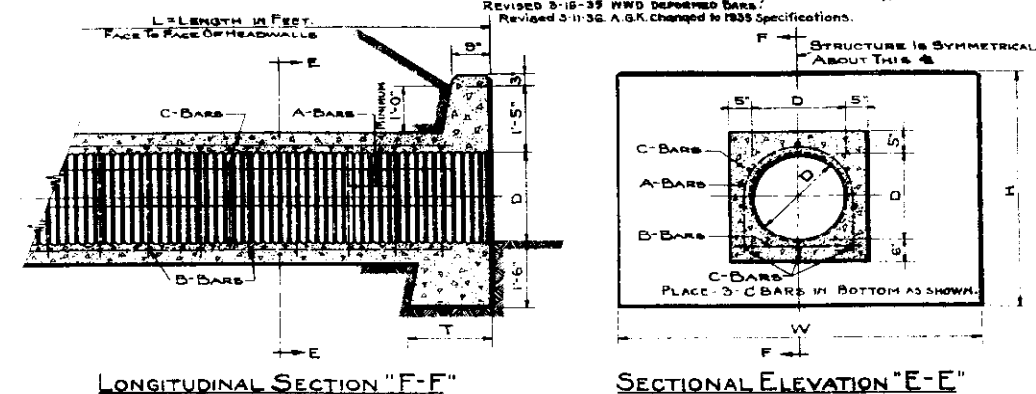


DIAMETER OF PIPE	WIDTH OF HEADWALL	HEIGHT OF HEADWALL	THICKNESS OF HEADWALL	CL. B' CONCRETE FOR 2 HEADWALLS	CORRUGATED METAL PIPE	CEMENT RUBBLE MASONRY
12"	12'-0"	12'-0"	1'-0"	1.4 CU. YDS.	16 GAGE L = LIN. FT.	
15"	15'-0"	15'-0"	1'-0"	1.9 do	16 do L = do	
18"	18'-0"	18'-0"	1'-0"	2.2 do	14 do L = do	
24"	24'-0"	24'-0"	1'-0"	3.5 do	12 do L = do	



STANDARD HEADWALLS FOR CORRUGATED METAL PIPE CULVERTS.

STANDARD M-102-E



DIAMETER OF PIPE	WIDTH OF HEADWALL	HEIGHT OF HEADWALL	THICKNESS OF HEADWALL	CL. B' CONCRETE FOR 2 HEADWALLS	CORRUGATED METAL PIPE	CEMENT RUBBLE MASONRY
12"	12'-0"	12'-0"	1'-0"	1.4 CU. YDS.	16 GAGE L = LIN. FT.	
15"	15'-0"	15'-0"	1'-0"	1.9 do	16 do L = do	
18"	18'-0"	18'-0"	1'-0"	2.2 do	14 do L = do	
24"	24'-0"	24'-0"	1'-0"	3.5 do	12 do L = do	

* CONCRETE QUANTITIES SHOWN ABOVE INCLUDE TWO HEADWALLS.
 @ WHEN L IS 40 FT. OR MORE ADD 10.6 LBS. FOR LAP IN C-BARS.
 ▼ WHEN L IS 40 FT. OR MORE ADD 14.7 LBS. FOR LAP IN C-BARS.

SPECIAL NOTES
 ALL REINFORCING BARS SHALL BE 1/2".
 MINIMUM DISTANCE 2" OF BAR TO SURFACE OF CONCRETE SHALL BE 2".
 PIPE SHALL BE THOROUGHLY CLEANED BEFORE INCASING WITH CONCRETE.

INCASED PIPE CULVERTS.

GENERAL NOTES FOR ALL STRUCTURES
 ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE COLORADO STATE HIGHWAY DEPARTMENT, ADOPTED AUGUST 11, 1935.
 ALL CONCRETE SHALL BE CLASS "A" OR CLASS "B" AS NOTED.
 ALL EXPOSED SURFACES SHALL BE RUBBED FREE OF FORM MARKS.
 ALL EXPOSED CORNERS SHALL BE DEVELOPED TO A 2" FACE.
 ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS POURED.
 ALL WALLS SHALL HAVE FORMS ON BOTH SIDES.
 ALL REINFORCING BARS SHALL BE DEFORMED.
 ALL REINFORCING BARS SHALL BE TAGGED WITH THE STATION NUMBER AND LETTER DESIGNATION.
 SECONDARY BARS WHEN SPLICED SHALL BE GIVEN A LAP OF 50 DIAMETERS.
 MAIN BARS SHALL NOT BE SPLICED.
 MINIMUM FILL OVER TOP OF CULVERTS SHALL BE 18".
 WHEN CULVERT IS SLOPED HEADWALLS SHALL BE PLACED PARALLEL TO E OF ROADWAY.
 MINIMUM GRADE OF PIPE SHALL BE 1%.
 FOR SIZE AND LOCATION OF CULVERTS SEE SHEET NO. 2.
 FOOTINGS IN ROCK SHALL BE POURED OUT TO THE ROCK AND NOT FORMED.

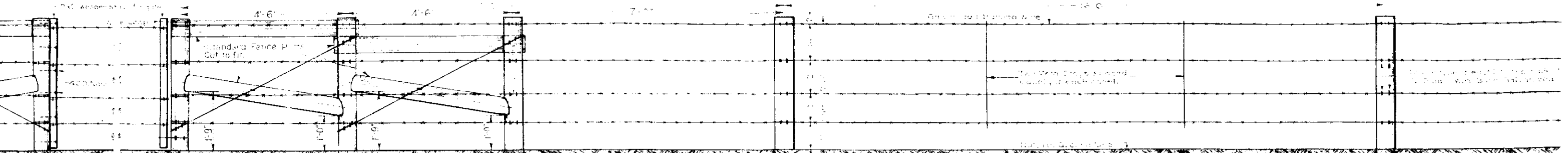
COLORADO
STATE HIGHWAY DEPARTMENT
 STANDARD HEADWALLS
 INTERCEPTING HEADWALLS
 INCASED METAL PIPE CULVERT
 WITH HEADWALLS
 FOR
 CORRUGATED METAL PIPE CULVERTS
 Designed by R. B. Bailey
 Made by G. H. W. M. Bridge Engineer
 Checked by R. B. Bailey Date: April 30, 1932.

STANDARD M-24-FX-REV.

UNTREATED WOOD POSTS

6-19-36 - JWS.
for AWP-2006

FED. ROAD DIST. NO.	STATE	AW PROJECT	DATE	BY
3	COLO.	3006	6	

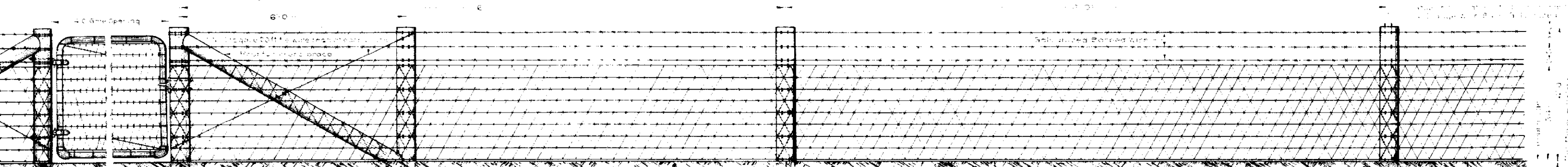


ADDITIONAL QUANTITIES REQUIRED FOR ONE GATE IN BARBED WIRE FENCE

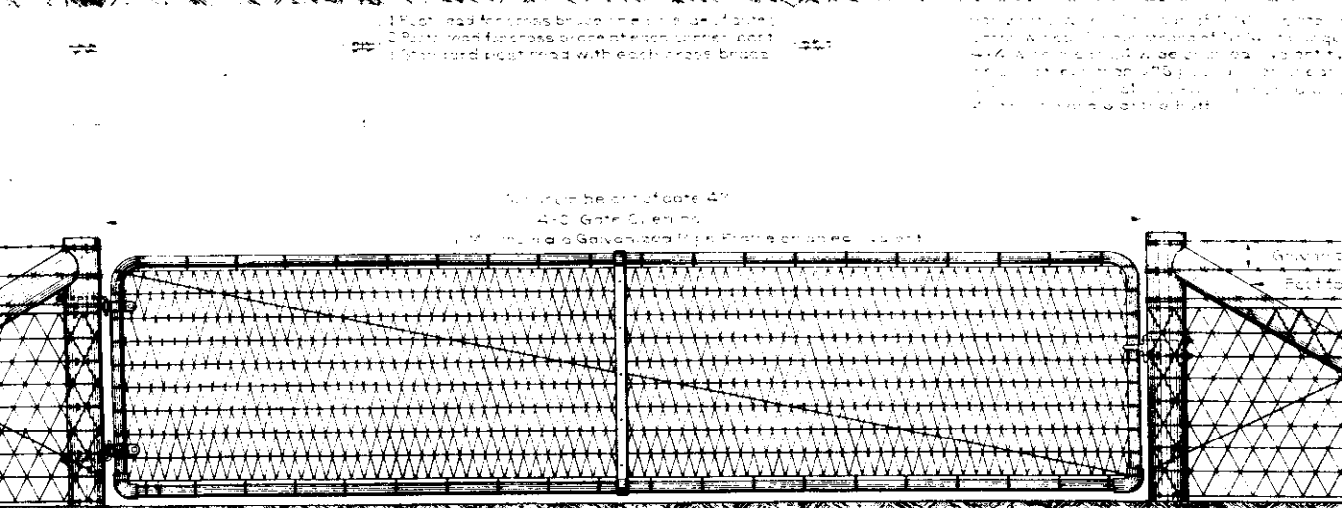
- 2 x 2 x 4-0' Wooden Brags
- 4 4" x 6" Brace Posts
- 4 5-0" x 6" Standard Posts
- 2 1/2" wires for braces - 100 lin. ft. of No. 12 1/2 gage wire.

Systems with three or four for end posts are same as for gates except no wooden stays are required. Additional quantities required for end posts are 1/2 those for gates except no wooden stays are required.

ELEVATION OF BARBED WIRE FENCE WITH WOODEN POSTS.
ITEM NO. 292-A



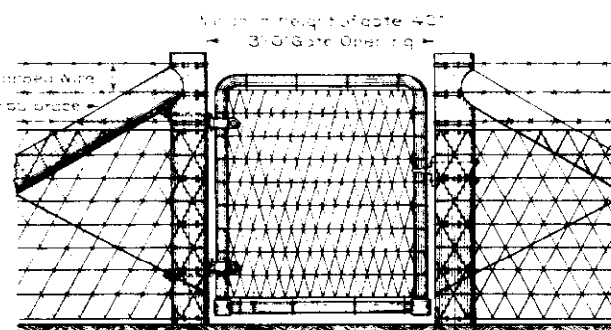
ELEVATION OF COMBINATION WIRE FENCE WITH WOODEN POSTS.
ITEM NO. 292-B



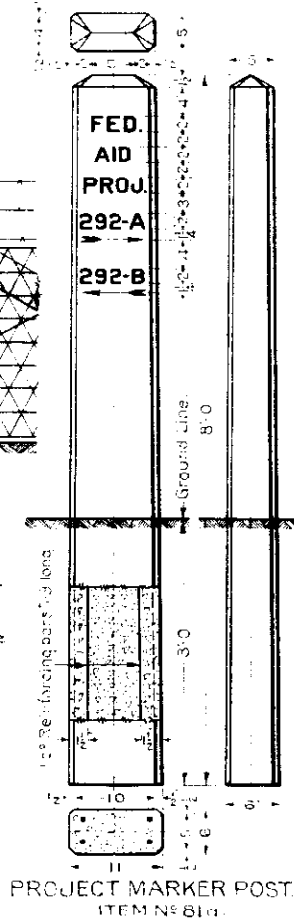
ELEVATION OF DRIVEWAY GATE.
ITEM NO. 292-C

GENERAL NOTES FOR WIRE FENCES

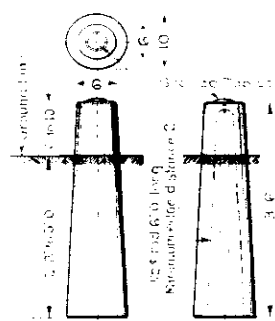
1. All wire fences shall be made with three strand galvanized steel wire of the Colorado State Highway Department, A. Sept. 1, 1935.
2. All wire fences shall be of standard make and lighter than No. 12 1/2 gage wire and with two strand barbed wire, galvanized and not more than five inches apart.
3. All wire fences shall be galvanized and the finish shall be noted on this plan.
4. All wire fences shall be galvanized and the finish shall be noted on this plan.
5. All wire fences shall be galvanized and the finish shall be noted on this plan.
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9. All wire fences shall be galvanized and the finish shall be noted on this plan.
10. All wire fences shall be galvanized and the finish shall be noted on this plan.



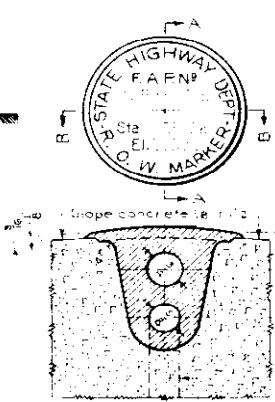
ELEVATION OF WALK GATE.
ITEM NO. 292-D



PROJECT MARKER POST.
ITEM NO. 292-E



RIGHT OF WAY MARKER POST.
ITEM NO. 292-F



DETAIL OF BRONZE TABLET FOR RIGHT OF WAY MARKER POST.

NOTES FOR PROJECT MARKER POSTS

1. All project marker posts shall be made of galvanized steel pipe of the Colorado State Highway Department, A. Sept. 1, 1935.
2. All project marker posts shall be of standard make and lighter than No. 12 1/2 gage wire and with two strand barbed wire, galvanized and not more than five inches apart.
3. All project marker posts shall be galvanized and the finish shall be noted on this plan.
4. All project marker posts shall be galvanized and the finish shall be noted on this plan.
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7. All project marker posts shall be galvanized and the finish shall be noted on this plan.
8. All project marker posts shall be galvanized and the finish shall be noted on this plan.
9. All project marker posts shall be galvanized and the finish shall be noted on this plan.
10. All project marker posts shall be galvanized and the finish shall be noted on this plan.

NOTES FOR R.O.W. MARKER POSTS

1. All right of way marker posts shall be made of galvanized steel pipe of the Colorado State Highway Department, A. Sept. 1, 1935.
2. All right of way marker posts shall be of standard make and lighter than No. 12 1/2 gage wire and with two strand barbed wire, galvanized and not more than five inches apart.
3. All right of way marker posts shall be galvanized and the finish shall be noted on this plan.
4. All right of way marker posts shall be galvanized and the finish shall be noted on this plan.
5. All right of way marker posts shall be galvanized and the finish shall be noted on this plan.
6. All right of way marker posts shall be galvanized and the finish shall be noted on this plan.
7. All right of way marker posts shall be galvanized and the finish shall be noted on this plan.
8. All right of way marker posts shall be galvanized and the finish shall be noted on this plan.
9. All right of way marker posts shall be galvanized and the finish shall be noted on this plan.
10. All right of way marker posts shall be galvanized and the finish shall be noted on this plan.

COLORADO
STATE HIGHWAY DEPARTMENT

STANDARD WIRE FENCES
UNTREATED WOOD POSTS
AND
MARKER POSTS

Designed by JWS.
Made by JWS.
Check Design JWS.
Check Detail JWS.

Approved by JWS.
Bridge Engineer
Date: 6-19-36

EQUATION- 7400 Back = 0400 Ahead



NEARBY STRUCTURES ON SAME STREAM: None.

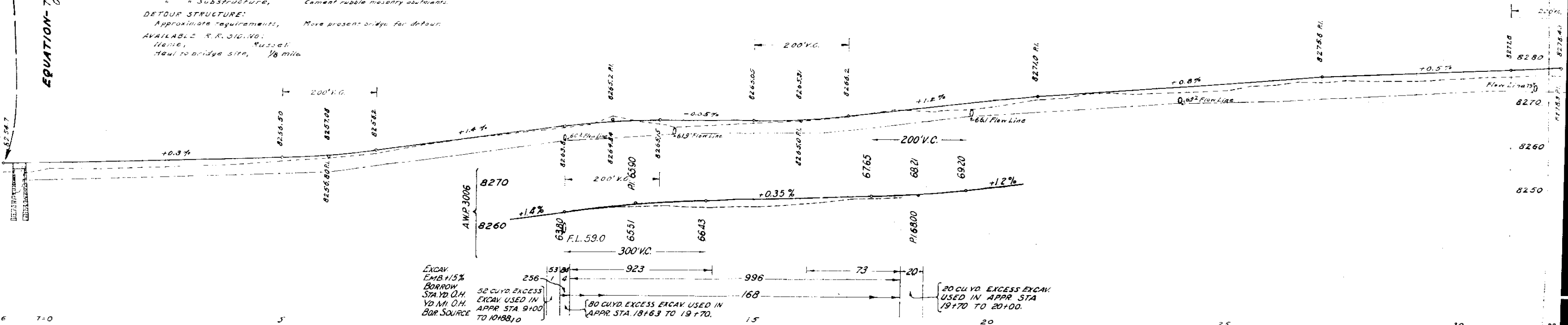
STREAM DATA:

Elevation of:

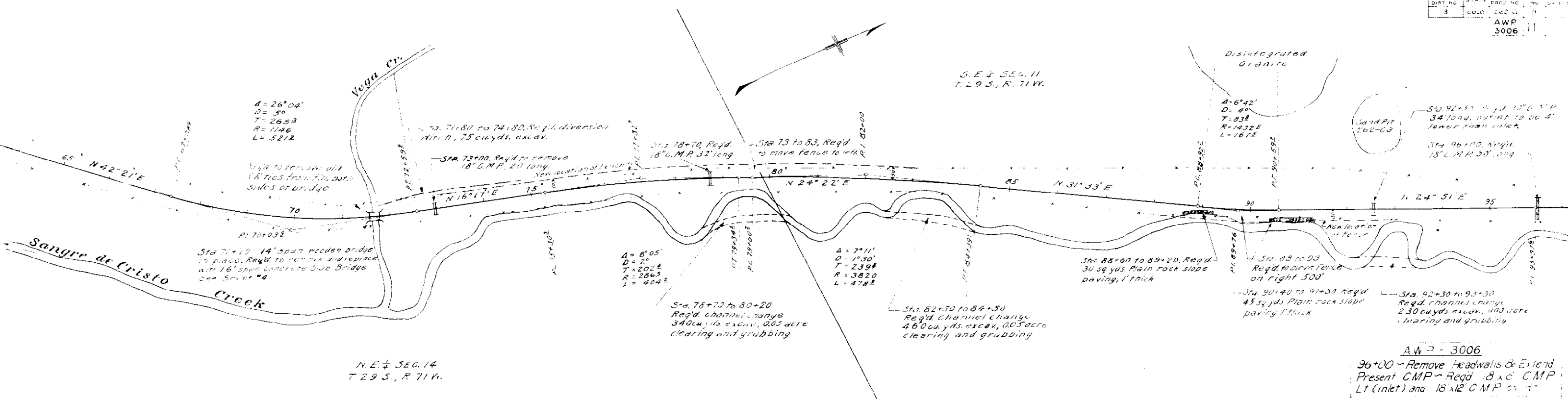
Maximum high water,	82520	Date —
Normal high water,	82515	Normal stage —
Extreme low water,	82492	Stream bed 82482
Drift carried during floods,	None	
Probable depth of scour during floods,	None	

DETOUR STRUCTURE:
Approximate requirements, More present bridge for detour:

AVAILABLE R.R. SIDING:
Horne, Russell
Haul to bridge site, 1/8 mile







PRESENT STRUCTURE
 Spaw, 14' x 15'
 Clear opening, 10 ft.
 " height, 60 in. A
 Type of Substructure, 2x4 stringers, wood deck
 " Substructure, 4x4 dimensions
 Requirements for removal, Arming complete

PROPOSED STRUCTURE
 Foundation, 14' x 14' x 4' present structure. Same
 Spaw, 16' x 16'
 Clear opening, 20' x 0"
 " height, 64 ft. ft.
 Type of Substructure, Concrete slab
 " Substructure, Concrete block masonry, etc.

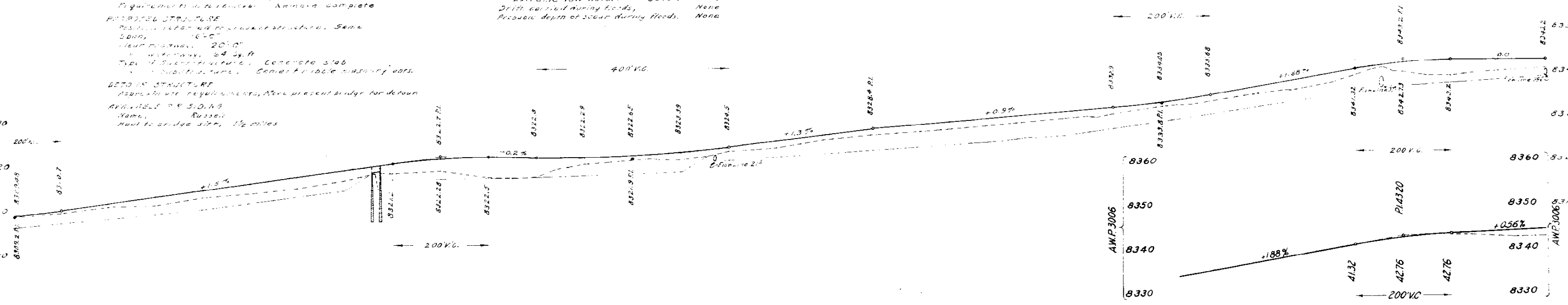
BETOEN STRUCTURE
 Approximate requirements, None present budget for detour

APPROXIMATE SP. S.D. HS
 Name, Russell
 Hunt to bridge site, 1 1/2 miles

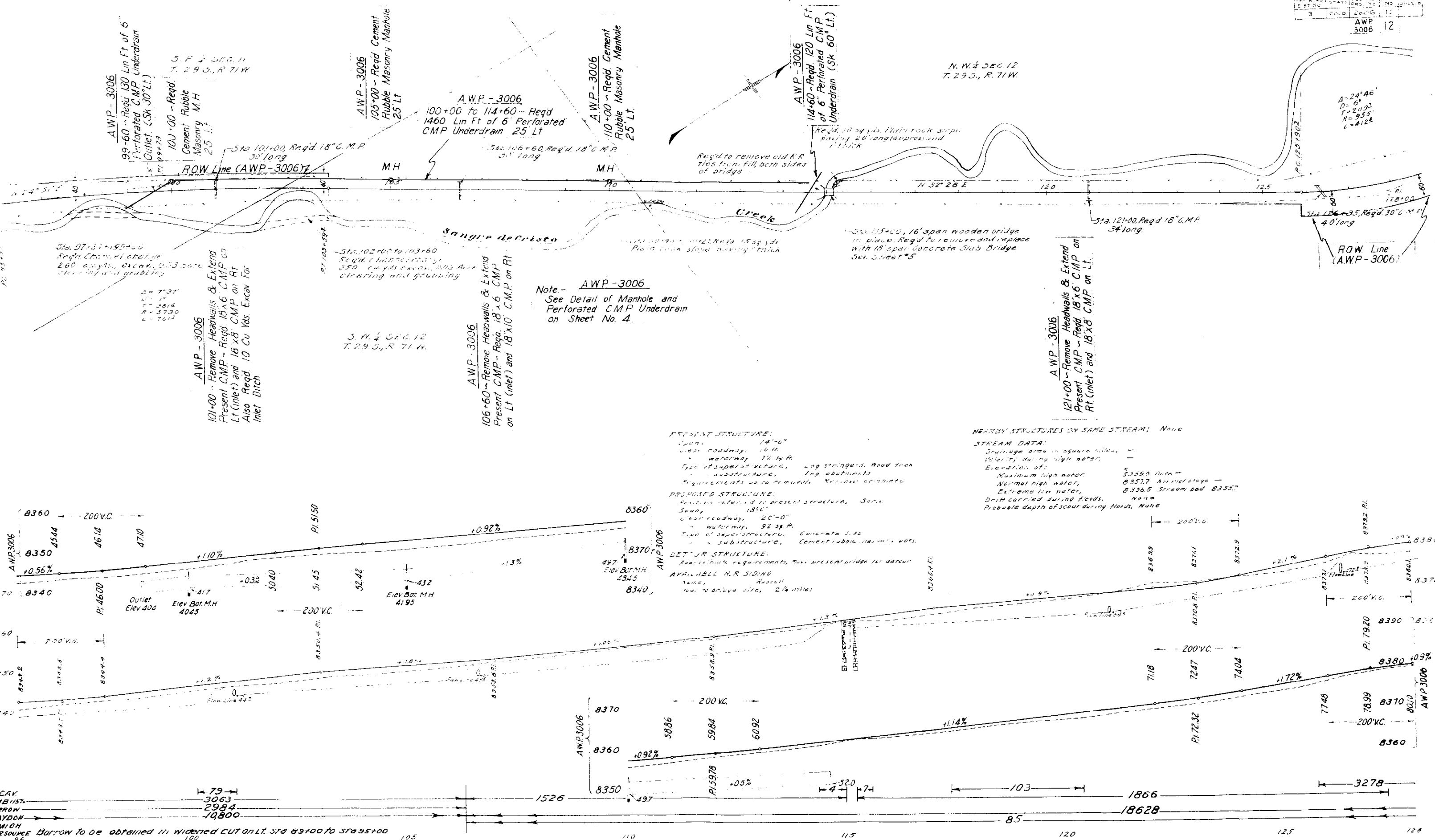
NEARBY STRUCTURES ON SAME STREAM: None.

STREAM DATA

Elevation of:			
Maximum high water.	8318.5	Date	---
Normal high water.	8317.0	Normal stage	---
Extreme low water.	8315.5	Stream bed	8315
Drift carried during floods.		None	
Probable depth of scour during floods.		None	



EXCAV.
EMB+15%
BORROW
STAY YD QH.
YD. MI. O.H.
BOR.SOURCE



PRESENT STRUCTURE:

Span: 14'-6"
 Clear roadway: 16 ft
 Waterway: 74 sq ft
 Type of superstructure: Log stringers, hood deck
 Substructure: Log abutments
 Requirements as to removal: Remove concrete

PROPOSED STRUCTURE:

Position relative to present structure: Same
 Span: 18'-0"
 Clear roadway: 20'-0"
 Waterway: 92 sq ft
 Type of superstructure: Concrete Slab
 Substructure: Cement rubble masonry, walls

DETAIL STRUCTURE:

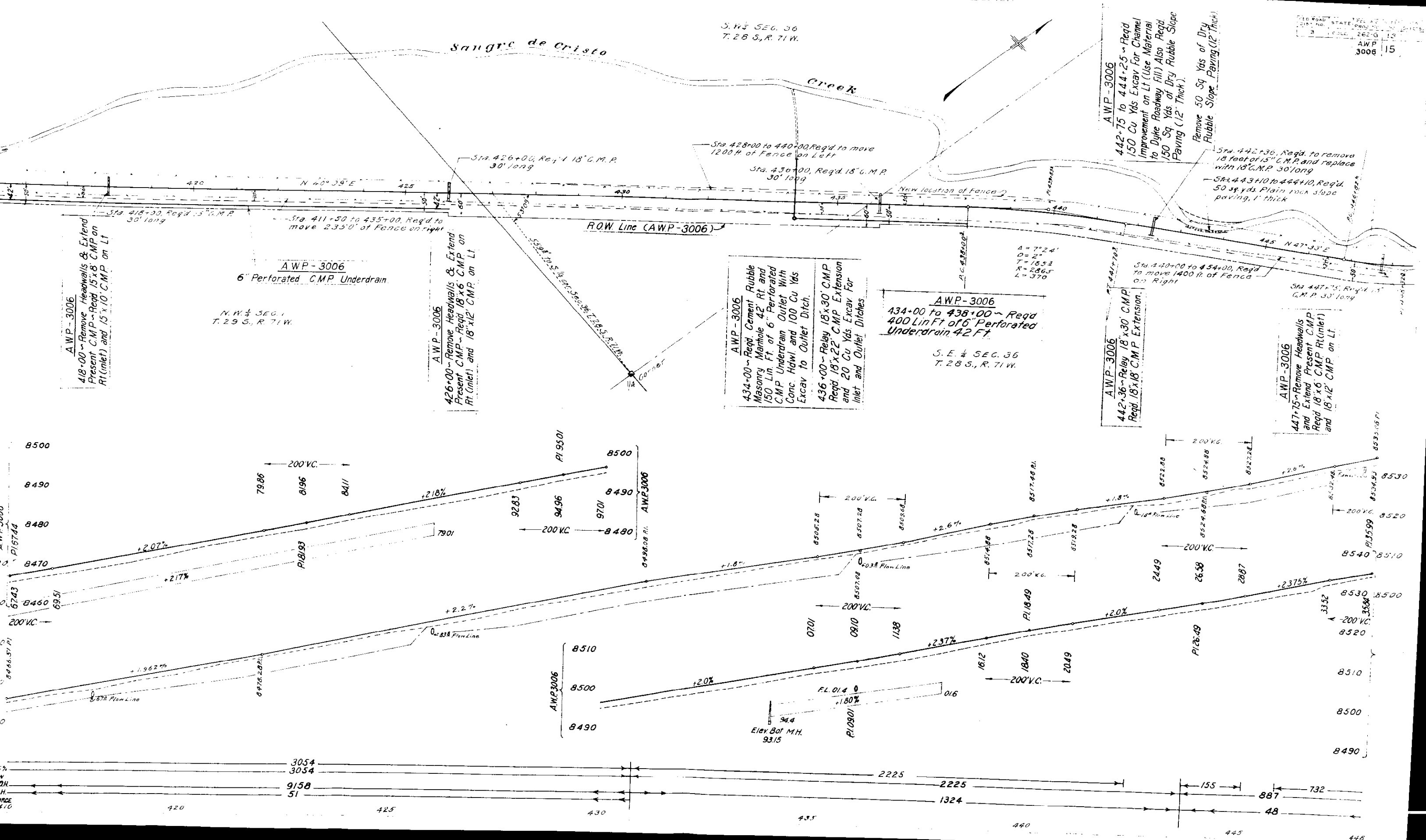
Approximate requirements, full present bridge for detail
 AVAILABLE R.R. SIDING
 None
 Road to bridge site: 2 1/4 miles

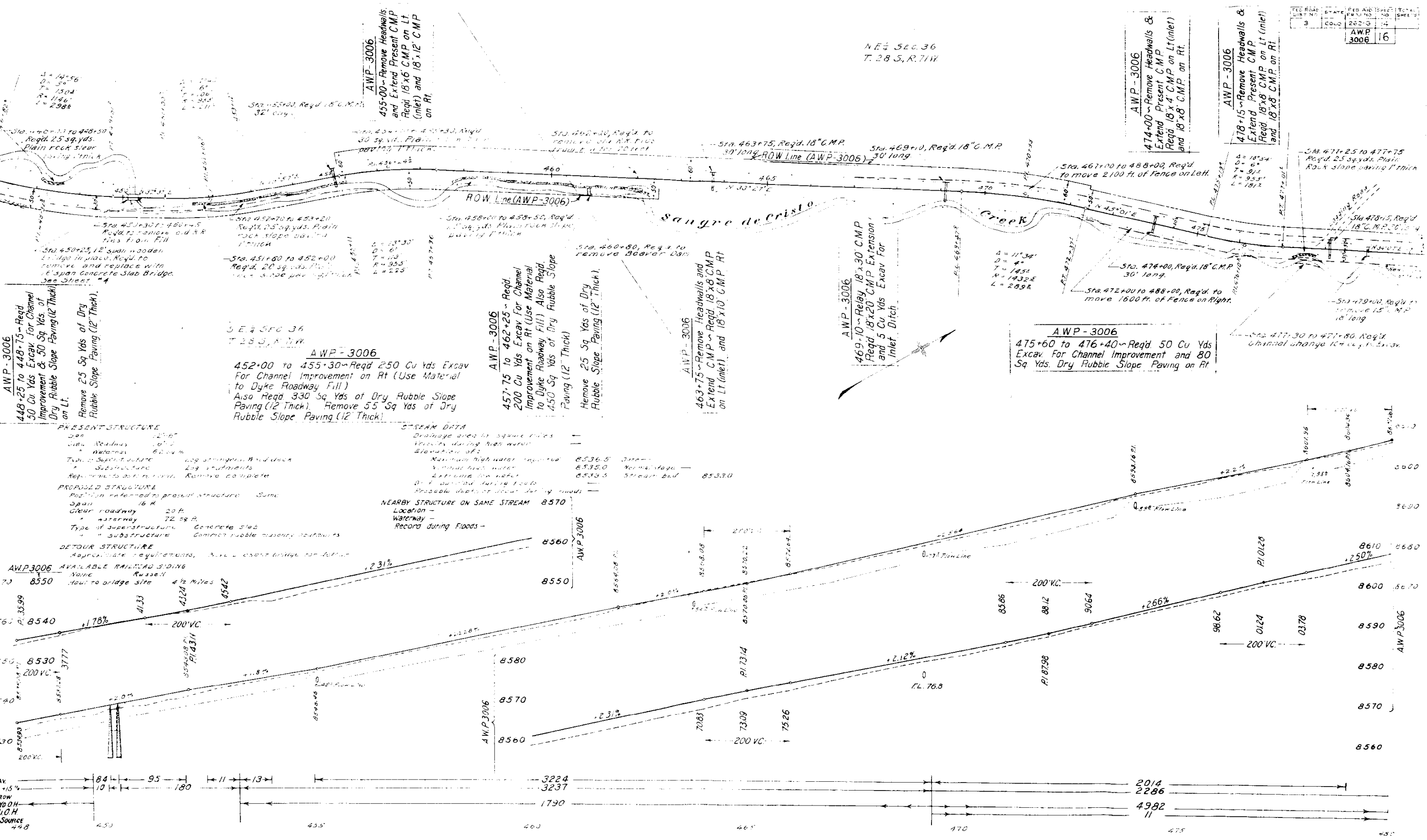
NEARBY STRUCTURES BY SAME STREAM: None

STREAM DATA:

Drainage area in square miles: -
 Velocity during high water: -
 Elevation of:
 Maximum high water: 8359.0 Gate -
 Normal high water: 8357.7 Normal stage -
 Extreme low water: 8356.5 Stream bed 8355.7
 Drift carried during floods: None
 Probable depth of scour during floods: None

CAV
 1515.5
 3063
 2984
 19800
 BORROW to be obtained in widened cut on Lt. Sta 89+00 to Sta 95+00





N.E. 1/4 SEC 36
T. 28 S., R. 71 W.

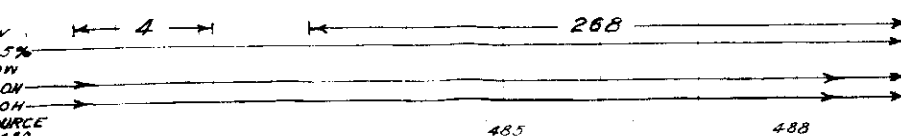
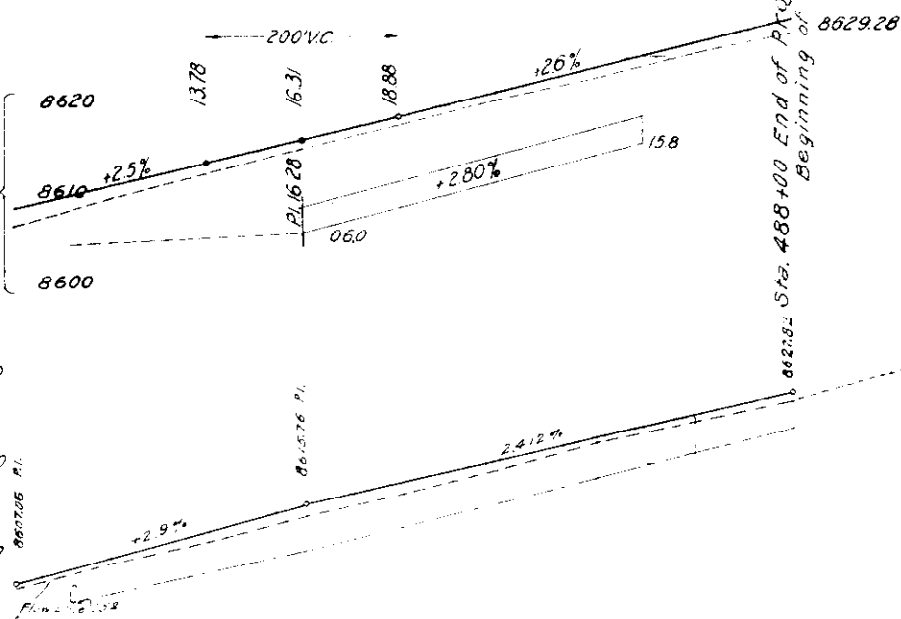
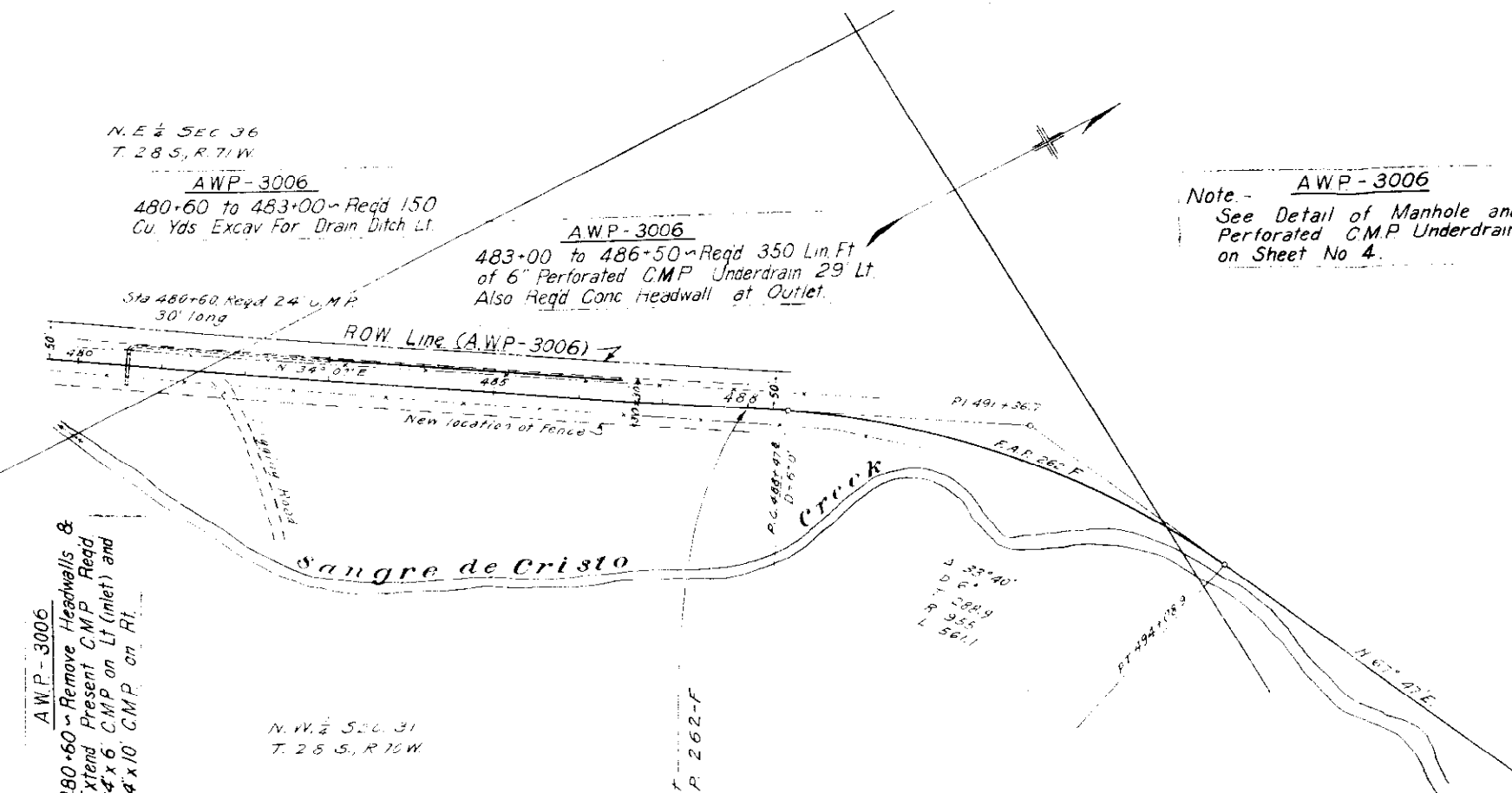
AWP-3006

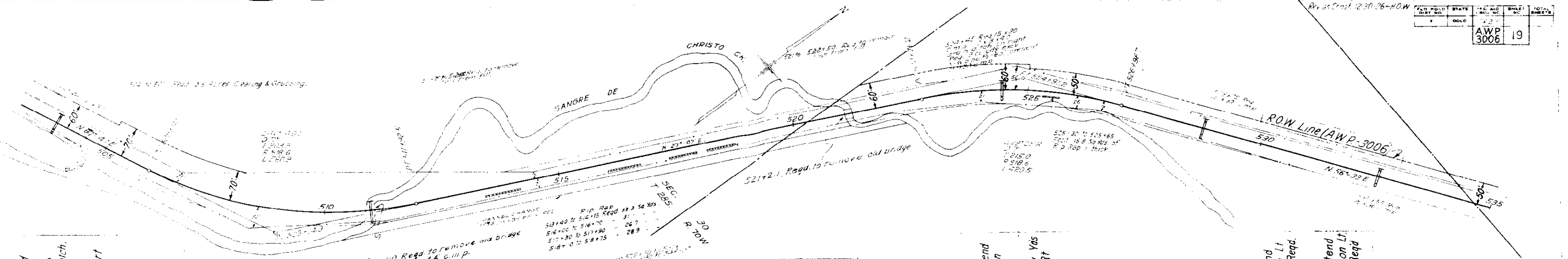
480+60 to 483+00 ~ Reg'd 150
Cu. Yds. Excav. For Drain Ditch Lt.

AWP-3006

483+00 to 486+50 ~ Reg'd 350 Lin. Ft.
of 6" Perforated C.M.P. Underdrain 29' Lt.
Also Reg'd Conc. Headwall at Outlet.

Note - AWP-3006
See Detail of Manhole and
Perforated C.M.P. Underdrain
on Sheet No. 4.





AWP-3006

503+80 ~ Remove Headwalls and Extend Present C.M.P. ~ Regd. 18' x 6' C.M.P. on Lt (inlet) and 18' x 10' C.M.P. on Rt. Also Regd. 15 Cu Yds Excav For Outlet Ditch.

504+50 ~ Regd. 24' x 46' C.M.P. Culvert and 10 Cu Yds Excav For Inlet Ditch.

AWP-3006

510+00 to 511+50 ~ Regd. 150 Sq Yds of Dry Rubble Slope Paving (12' Thick) on Rt.

511+00 ~ Relay 36' x 44' C.M.P. Culv. Regd. 36' x 6' C.M.P. Extension.

AWP-3006

518+75 to 519+50 ~ Regd. 100 Cu Yds Excav For Channel Improvement on Rt. Also Regd. 75 Sq Yds Dry Rubble Slope Paving.

521+40 to 522+00 ~ Regd. 50 Cu Yds Excav For Channel Improvement on Rt. Also Regd. 60 Sq Yds Dry Rubble Slope Paving.

AWP-3006

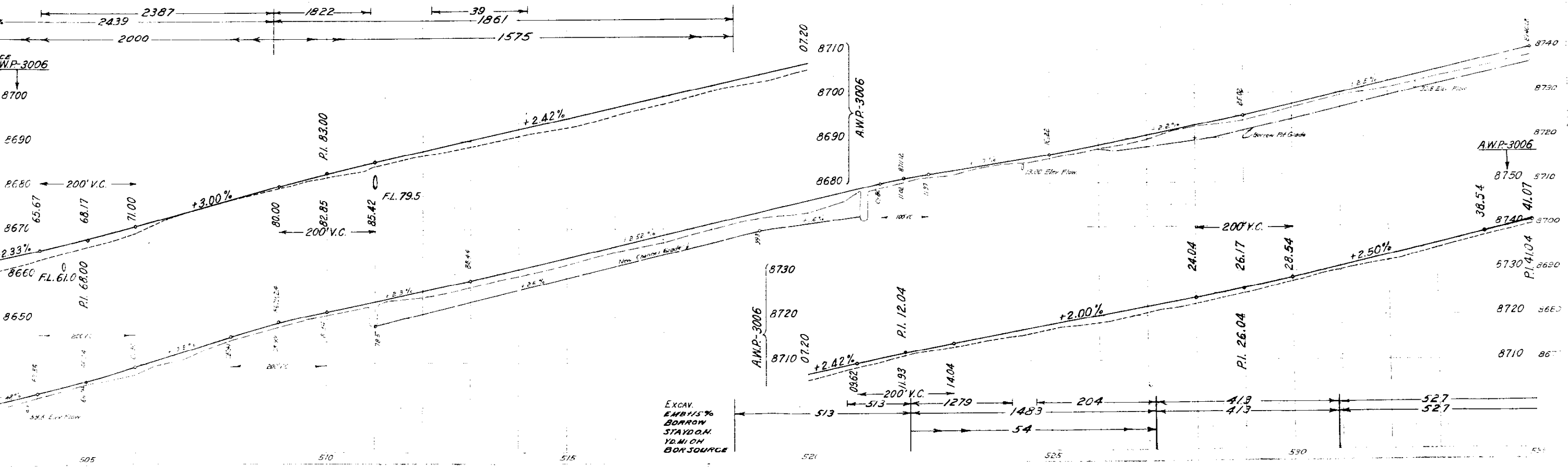
524+45 ~ Remove Headwalls and Extend Present C.M.P. ~ Regd. 15' x 8' C.M.P. on Lt (inlet) and 15' x 8' C.M.P. on Rt.

524+25 to 526+00 ~ Regd. 250 Cu Yds Excav For Channel Improvement on Rt. (Use Material to Ditch Roadway Fill).

AWP-3006

528+75 ~ Remove Headwalls and Extend Present C.M.P. ~ Regd. 18' x 6' C.M.P. on Lt (inlet) & 18' x 10' C.M.P. on Rt. Also Regd. 10 Cu Yds Excav For Outlet Ditch.

532+55 ~ Remove Headwalls and Extend Present C.M.P. ~ Regd. 18' x 4' C.M.P. on Lt (inlet) & 18' x 8' C.M.P. on Rt. Also Regd. 15 Cu Yds Excav For Outlet Ditch.



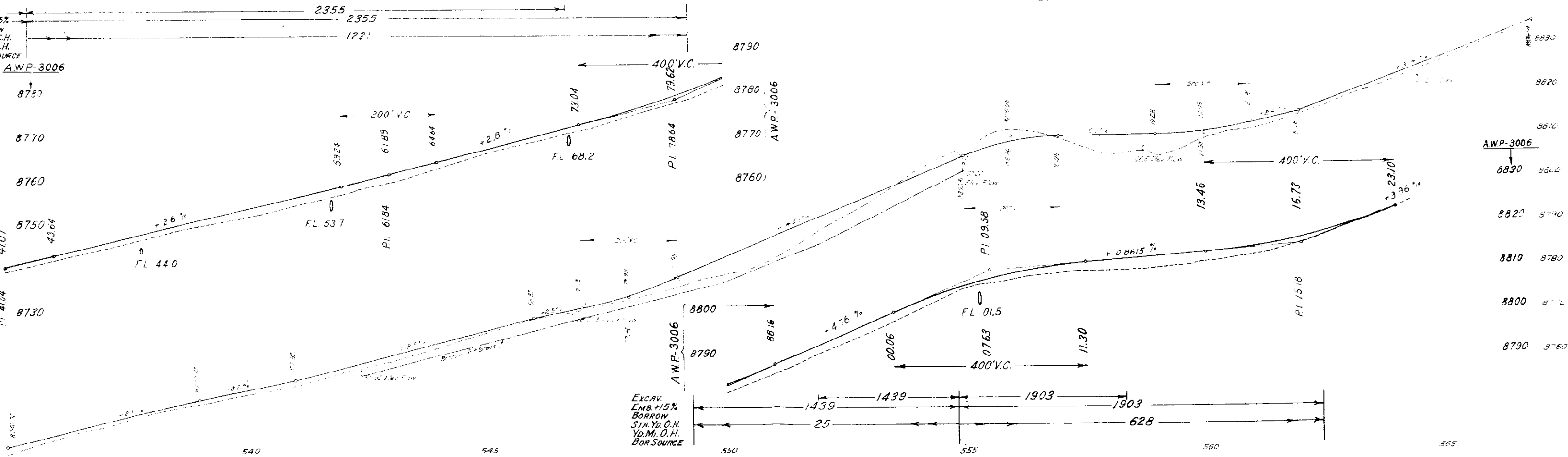
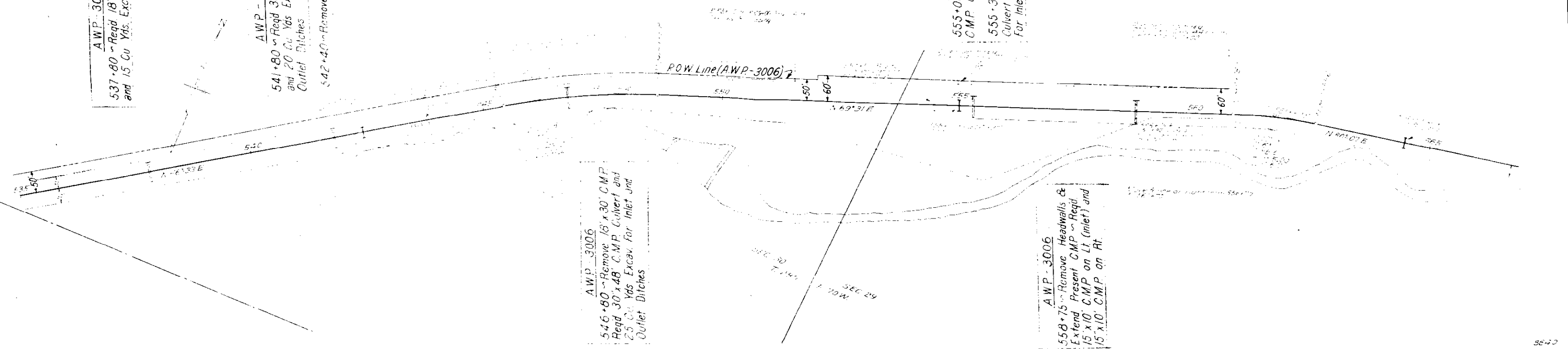
AWP-3006
537+80 ~ Regd 18' x 46' C.M.P. Culvert
and 15 Cu Yds. Excav. For Outlet Ditch.

AWP-3006
541+80 ~ Regd 30' x 46' C.M.P. Culvert
and 20 Cu Yds. Excav. For Inlet and
Outlet Ditches
542+40 ~ Remove 18' x 30' C.M.P.

AWP-3006
555+00 ~ Remove 24' x 30'
C.M.P. Culvert
555+30 ~ Regd 36' x 50' C.M.P.
Culvert & 75 Cu Yds. Excav.
For Inlet and Outlet Ditches

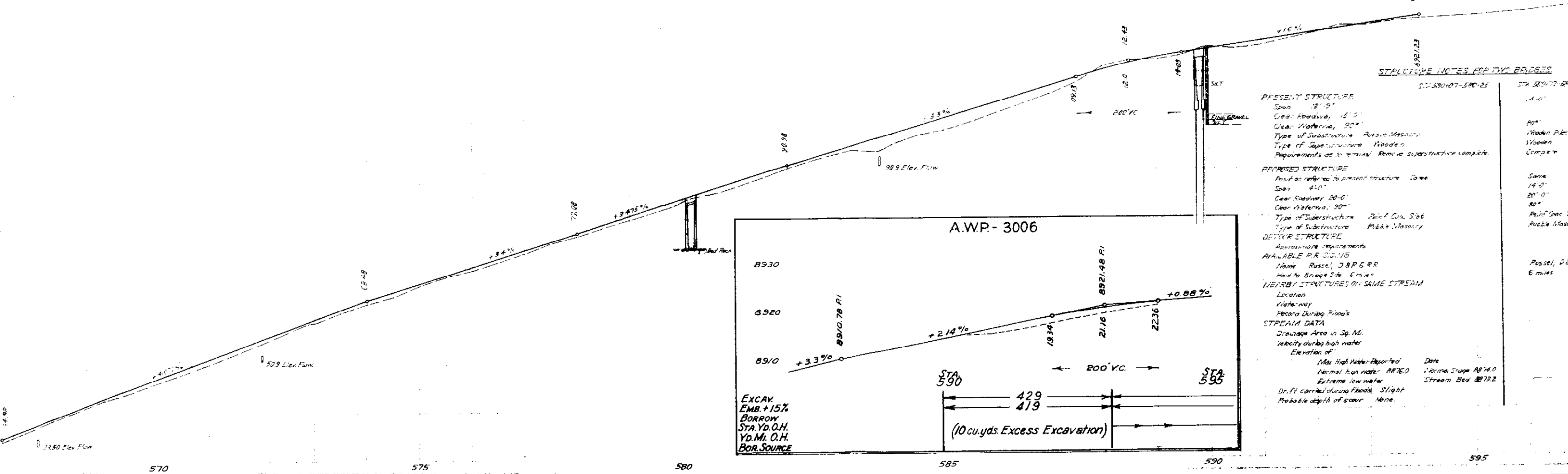
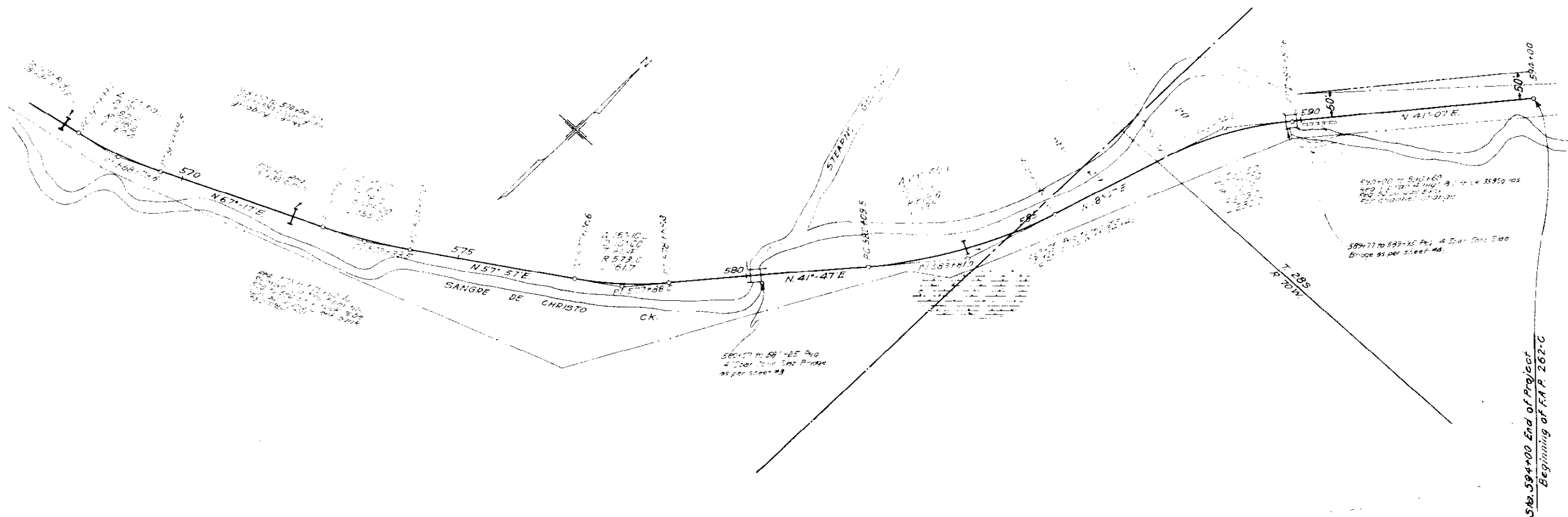
AWP-3006
546+80 ~ Remove 18' x 30' C.M.P.
Regd 30' x 46' C.M.P. Culvert and
25 Cu Yds. Excav. For Inlet and
Outlet Ditches

AWP-3006
558+75 ~ Remove Headwalls &
Extend Present C.M.P. ~ Regd
15' x 10' C.M.P. on Lt (inlet) and
15' x 10' C.M.P. on Rt.



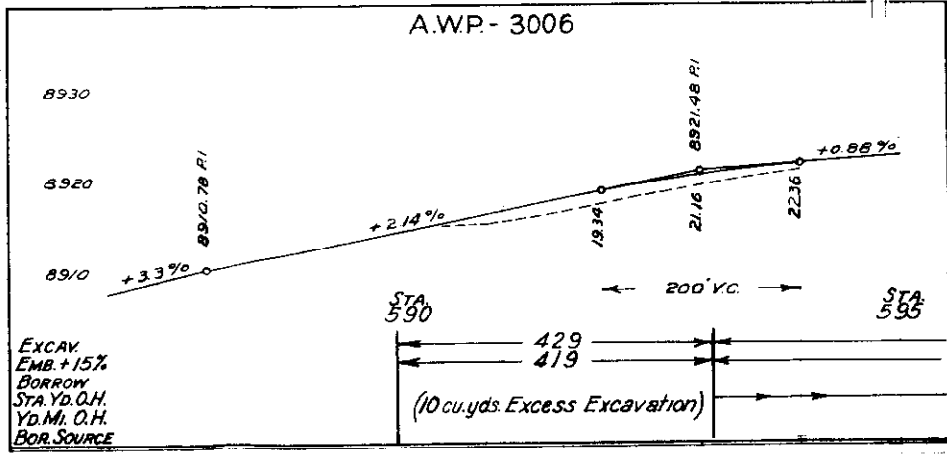
25-26-HOW

PROJ. NO.	STATE	FED. AID	DATE	BY	CHKD.
3006	OKLA.	AWP	1962	21	



STRUCTURE NOTES FOR DYC BRIDGES

PRESENT STRUCTURE	STATION 580+00 TO 580+25	STATION 580+25 TO 580+50
Span: 13'-9"	4'-0"	4'-0"
Clear Roadway: 15'-0"	10'-0"	10'-0"
Clear Waterway: 20'-0"	20'-0"	20'-0"
Type of Substructure: Adobe Masonry	Adobe Masonry	Adobe Masonry
Type of Superstructure: Wooden	Wooden	Wooden
Requirements as to removal: Remove superstructure complete	Remove superstructure complete	Remove superstructure complete
REPAIRED STRUCTURE		
Position relative to present structure: Same		
Span: 4'-0"	4'-0"	4'-0"
Clear Roadway: 20'-0"	20'-0"	20'-0"
Clear Waterway: 20'-0"	20'-0"	20'-0"
Type of Substructure: Adobe Masonry	Adobe Masonry	Adobe Masonry
Type of Superstructure: Reinforced Concrete Slab	Reinforced Concrete Slab	Reinforced Concrete Slab
DETOUR STRUCTURE		
Approximate requirements		
AVAILABLE P.R. DATA		
Name: Russell, D.B.P.R.	Russell, D.B.P.R.	Russell, D.B.P.R.
Head to Bridge Site: 6 miles	6 miles	6 miles
NEARBY STRUCTURES ON SAME STREAM		
Location		
Waterway		
Hazard During Floods		
STEAM DATA		
Drainage Area in Sq. Mi.		
Velocity during high water		
Elevation of:		
Max. High Water Reported		
Normal High water	8876.0	8874.0
Extreme low water		Stream Bed 8873.2
Drift carried during floods	Slight	
Probable depth of scour	None	



EXCAV.
EMB. + 15%
BORROW
STA. YD. O.H.
YD. MI. O.H.
BOR. SOURCE

