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COLORADO

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED

U.S. WORKS PROGRAM HIGHWAY PROJECT NO. W.P.S.S.-429-A (I)

STATE HIGHWAY NO. 119

CLEAR CREEK & GILPIN COUNTIES

New Sheet 4-27-38 W.N.H.
Rev. Constr. Div. No. 1, 2 & 3 Combined 5-25-38
Rev. Constr. Div. No. 3 7-25-39 W.N.H.
C.B. Tracing made from original sheet Rev. 7-25-39
Rev. 11-1-35 Stand. M-21-B & M-22-B, E.A.R.
CONST. DIV. NO. 3

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLORADO	W.P.S.S.-429-A(I)	1	

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY
RIGHT OF WAY LINE
SECTION LINE
ONE-QUARTER SECTION LINE
POLE LINE
RAILROAD

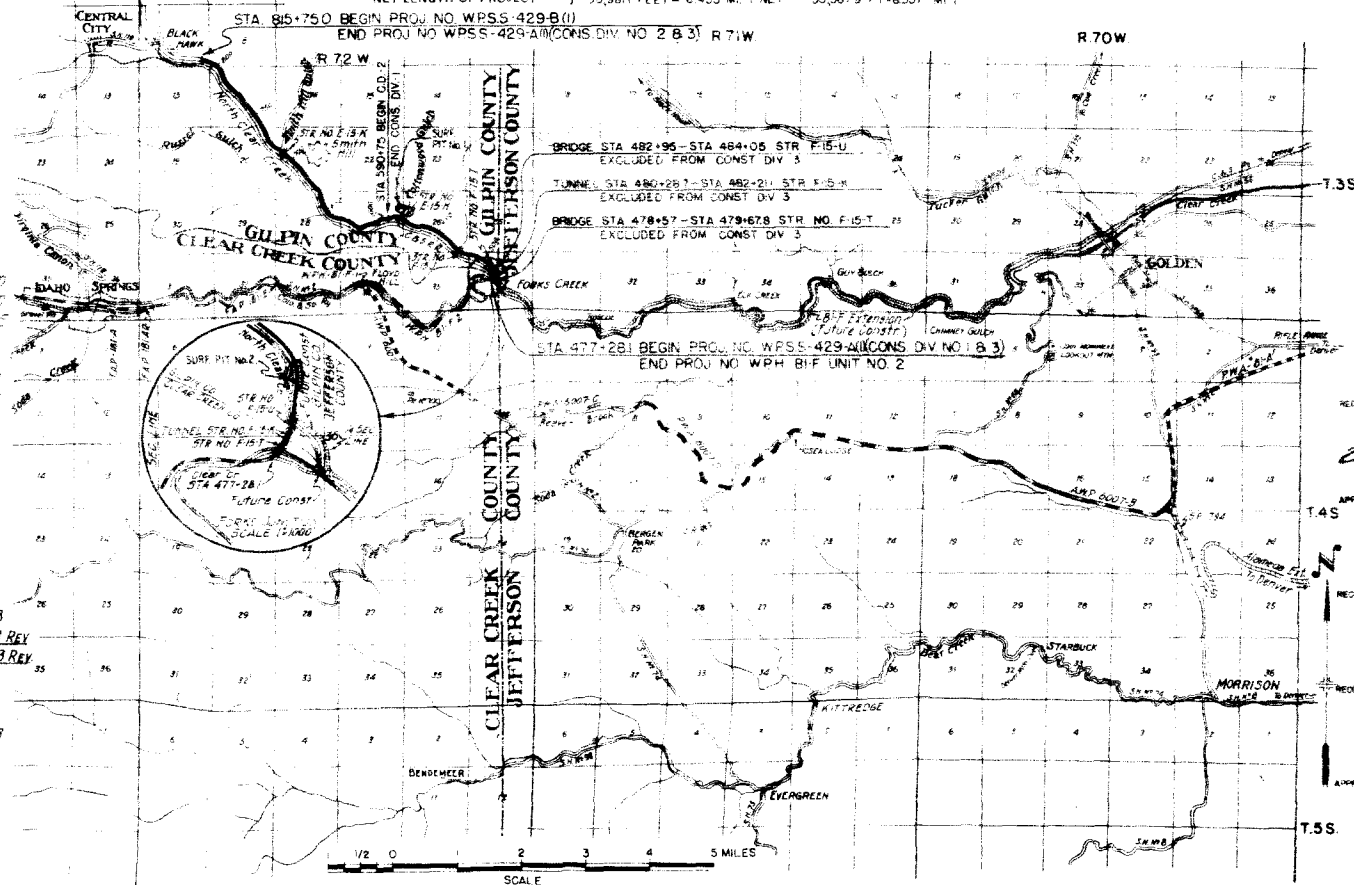
NOTE

It is recommended that bidders on this project go over the plan details with one of the following field representatives of this department.
D.H. ORMSBEE, Construction Engineer, DENVER, COLO.
E.E. MONTGOMERY, Division
F.W. MILLER, Resident

SCALES ON ORIGINAL TRACINGS

ON PLAN 1" = 100 FT.
ON PROFILE 1" = 100 FT. HORIZONTAL
1" = 10 FT. VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT 33,981 FEET = 6.435 MI.
NET LENGTH OF PROJECT 33,981 FEET = 6.435 MI.
CONSTRUCTION DIVISION NO. 3
GROSS 33,981 FT. = 6.435 MI.
NET 33,567 FT. = 6.357 MI.



RECOMMENDED FOR APPROVAL
[Signature]
DATE 8/6/39

APPROVED
[Signature]
DATE Aug 16 1939

RECOMMENDED FOR APPROVAL
[Signature]
DATE

RECOMMENDED FOR APPROVAL
[Signature]
DATE

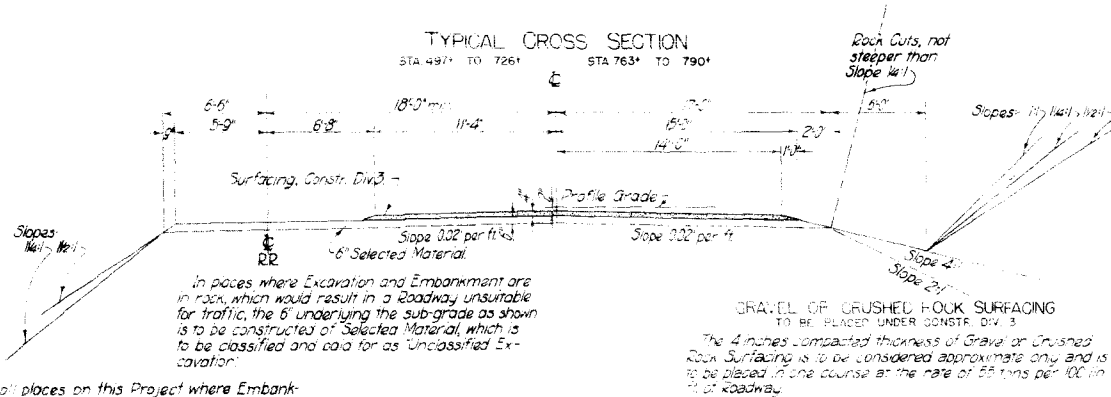
APPROVED
[Signature]
DATE

TYPICAL CROSS SECTIONS OF IMPROVEMENTS

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W.P.S.S. 429-A(1)	2	

Co. 4-27-32 - W.M.
 Rev. Aug. 5-25-38 - W.M.
 Rev. Const. Div. 3, 7-25-39 - W.M. Surfacing.
 Rev. 8-1-34 - W.M.

TYPICAL CROSS SECTION
STA 497+ TO 726+ STA 763+ TO 790+

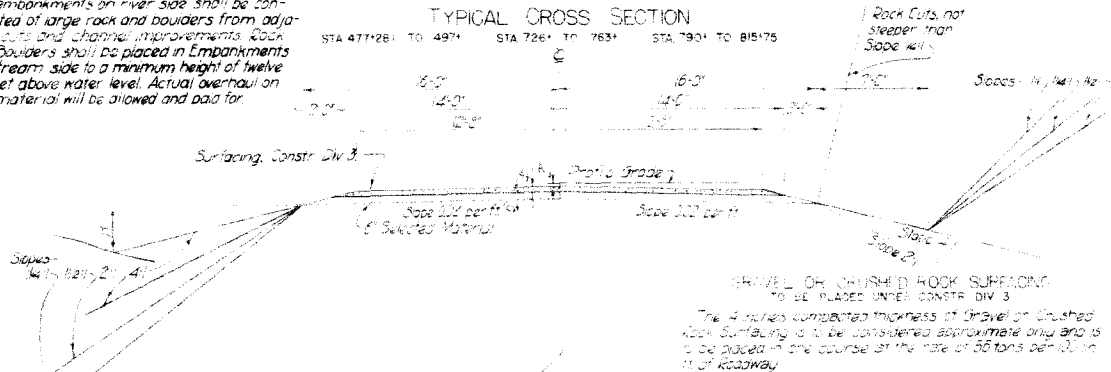


At all places on this Project where Embankments on River side extend into present stream bed, embankments on river side shall be constructed of large rock and boulders from adjacent cuts and channel improvements. Rock and boulders shall be placed in Embankments on stream side to a minimum height of twelve (12) feet above water level. Actual overhaul on this material will be allowed and paid for.

GRAVEL OR CRUSHED ROCK SURFACING
TO BE PLACED UNDER CONSTR. DIV. 3

The 4 inches compacted thickness of Gravel or Crushed Rock Surfacing is to be considered approximate only and is to be placed in one course at the rate of 55 tons per 100 lin. ft. of roadway.

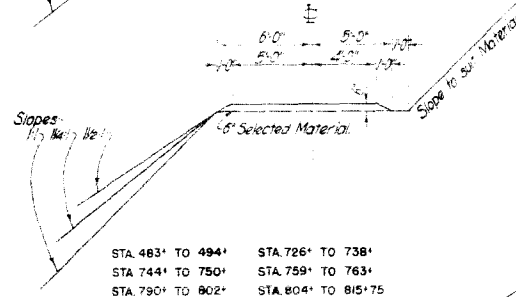
TYPICAL CROSS SECTION
STA 477+281 TO 497+ STA 726+ TO 763+ STA 790+ TO 815+75



GRAVEL OR CRUSHED ROCK SURFACING
TO BE PLACED UNDER CONSTR. DIV. 3

The 4 inches compacted thickness of Gravel or Crushed Rock Surfacing is to be considered approximate only and is to be placed in one course at the rate of 55 tons per 100 lin. ft. of roadway.

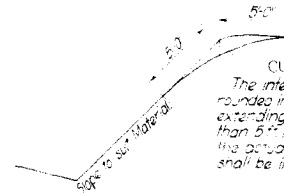
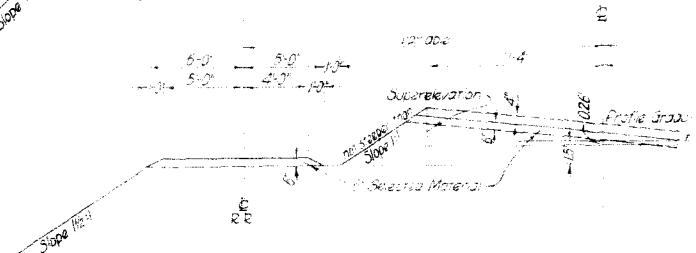
TYPICAL SECTION OF RAILROAD



STA 483+ TO 494+ STA 726+ TO 738+
 STA 744+ TO 750+ STA 759+ TO 763+
 STA 790+ TO 802+ STA 804+ TO 815+75

Selected Material is to be placed on Subgrade at the rate of 24 cu yds. per 100 lin. ft. of Railroad Grade and in addition 16 cu yds. per 100 lin. ft. of Railroad Grade to be used as ballast.

TYPICAL SECTION OF RAILROAD ON OUTSIDE OF SUPERELEVATED CURVES



CUT SLOPE TREATMENT IN EARTH CUTS

The intersection of Cut Slopes with the existing ground shall be rounded in earth cuts, beginning 5 ft. outside the slope stakes and extending 5 ft. down the cut slope. Where the cut slope is less than 5 ft. outside each of the above limits of Slope Treatment to the actual slope distance, Quantities involved in Slope Treatment shall be included in Unclassified Excavation.

GENERAL NOTES

This Project is to be constructed in accordance with the Standard Specifications of the Colorado State Highway Department adopted June 1, 1937.

4. Quantities on Preliminary Plans are to be considered approximate only.

4.1 Roadway Excavation required to construct the Project is to be obtained as indicated on the Plans. Quantities involved beyond the limits of the ditch as shown on the Typical Cross Section, either noted on the Profile as "Borrow" or on the List of Structures as "Embankment" are to be classified and paid for as Unclassified Excavation. These quantities are to be obtained as part of the Original Excavation of Structures indicated on the Plans. Slope stakes beyond the limits of the Typical Cross Section are subject to change by the Engineer to fit Embankment requirements actually encountered on construction.

4.2 Cuts are to be superexcavated and widened as provided for by the Standard Specifications. They include 4 in. Plans.

4.3 Piles encountered on construction are to be moved by Owners.

4.4 Congregate Venti Cross Culverts are to be provided with one headwall on the inner end unless otherwise noted on the Plans.

Payment for Ditching will be based on measurement using center line of the Project unless otherwise noted on the Plans.

Large trees excavated by the Contractor and lying outside the slope stakes in the stream channel and not to be included in Boulder Excavation, but shall be removed by the Contractor at his expense.

Excavation from Channel Changes shall be used for constructing dikes, filling old channels, and roadway embankments, as directed by the Engineer.

The present traveled Roadway between Sta 511+ and Sta 477+ will be used by traffic during construction of this Project. At all places where new construction approaches on present traveled Roadway the requirements of traffic shall be adequately provided for by the Contractor at his expense. Also the Contractor shall at his expense construct and maintain all temporary approaches to and crossings of intersecting roads. For Construction Div. 3, see note below.

Roadway Embankments at Bridge approaches shall be so constructed that the finished part of Gravel Shoulder is 5 ft. outside the curb line of the Bridge where widening of the section is necessary to achieve this result. It shall take place uniformly over a distance of 300 ft. This is done to accommodate Guard Fences and Guard Posts at Bridge approaches.

At all places where a portion of foundation for new concrete box culvert is in new fill, the fill under structure shall be composed of rock and/or Selected Material and shall be thoroughly compacted. Approval of foundation shall be secured from the Engineer before construction work on new structure is commenced.

W.P.S.S. No 429-A(1) Constr. Div. 3 is to be removed for contract purposes with W.P.S.S. No 429-A(2).

Construction Div. 1 - Consists of the Construction of Roadway, minor Structures, Tunnel, Bridges, and other Incidental Work outlined on the Plans, Sta 477+281 to Sta 590+75.

Construction Div. 2 - Consists of the Construction as outlined above, Sta 590+75 to Sta 815+75.

Construction Div. 3 - Consists of Surfacing Operations over the Project, the installation of Guard Posts, Guard Fence, and other Incidental Work.

When Paving and Tunnel Portals and Drainage construction operations on W.P.S.S. No 429-A(2) underway at the same time as work under this Project, require the closing of road to traffic, the road on portions involved will be closed to traffic on order of the Engineer. After Paving and Tunnel Portals and Drainage operations are completed, the road will then be reopened to traffic on order of the Engineer, and the Contractor shall again adequately provide for traffic at his expense.

Selected Material shall be placed on the Subgrade approximately 4 inches in thickness at the rate of 60 cu yds. per 100 lin. ft. of Roadway throughout the Entire Project. Selected Material shall be placed on the new Railroad Grade approximately 4 inches loose thickness at the rate of 40 cu yds. per 100 lin. ft. of Track. The Selected Material shall be classified and paid for as "Unclassified Excavation". Estimated Quantities involved and Sources of Material are shown below.

* See Materials required for temp track work to be placed by Contractor as directed by the Engineer.

Ed. 4-27-38, W.H.M. - New Sheet
Rev. Constr. Div. 3-7-25-39-W.H.M.
Rev. 6-7-39, -Con. Div. 3 A.H.M.

FED. ROAD DIST NO	STATE	U.S.W.P.M. PROJ NO	SHEET NO	TOTAL SHEETS
3	COLO.	W.P.S.S. 429-A(1)	3	

CONSTR. DIV. 1, 2, 8, 3.

CONSTRUCTION DIV. 1 STA 477+26.1 TO STA 590+75										CONSTRUCTION DIV. 2. STA 590+75 TO STA 815+75				PROJECT
NO.	ITEM	UNIT	ROADWAY	TUNNEL	BRIDGES		DOUBLE C.B.C.	C.B.C.	TOTALS	ROADWAY	TRIPLE C.B.C.	TOTALS	TOTALS	
			STA 480+	STA 478+	STA 482+	STA 488+	STA 530+	STA 582+		STA 715+				
10a	Clearing & Grubbing Entire Project	Lump Sum	.	.	.	.	.	.	.	.	.	.	.	
11b	Removal of 5 Structures	.	.	.	.	.	.	.	.	.	.	.	.	
11c	" " " " Structure, Sta 530+	.	.	.	.	.	.	.	.	.	.	.	.	
11d	" " " " " " , Sta 715+	.	.	.	.	.	.	.	.	.	.	.	.	
11e	" " " " Structures	.	.	.	.	.	.	.	.	.	.	.	.	
12a	Removing fence	Lin Ft	.	.	.	.	.	.	.	500	.	500	500	
12c	& Rebuilding Board Fence, Sta 581+	Lump Sum	.	.	.	.	.	.	.	.	.	.	.	
13c	Unassisted Excavation	Cu Yd	42700	200	500	1200	1700	500	53000	271400	1600	273000	426000	
13a	Tunnel Excavation	.	3500	.	.	.	.	.	3500	.	.	3500	3500	
13e	Enlargement Excavation	.	200	.	.	.	.	.	200	.	.	200	200	
13z	Boulder Excavation	.	100	.	.	.	.	.	100	200	.	200	300	
14a	Dry Rock Excavation Structural	.	925	.05	50	400	480	310	2200	1820	350	2200	4400	
14b	" " " "	.	390	400	140	400	480	310	2900	2520	380	2900	5800	
14c	" " " "	.	130	220	50	.	.	.	500	320	.	320	820	
14d	" " " "	.	160	380	600	.	.	.	1700	500	.	500	2200	
18a	Station Vase Overhaul	Stave	191000	38700	.	300	.	.	430000	440000	.	440000	870000	
18c	Vase Mile Overhaul	Mile	7000	260	.	10	.	.	8000	7000	.	7000	15000	
42a	Untreated Bridge Timber	Sq Ft	.	26	66	.	.	.	12	.	.	12	12	
42b	Treated	.	.	.	.	.	.	.	.	111	.	111	111	
42x	Untreated Timber Tunnel Lining	.	29	.	.	.	.	.	29	.	.	29	29	
42y	Glass All Concrete	.	52	813	420	125	245	174	7436	111	374	285	3720	
42z	" " " "	.	.	.	.	.	.	.	127	92	.	92	219	
42-1	" " " " (Tonnage)	.	.	12	.	.	.	.	24	.	.	24	24	
42-2	" " " " Tunnel	.	240	.	.	.	.	.	240	.	.	240	240	
42x	Junite Coating	.	30	.	.	.	.	.	30	.	.	30	30	
42y	Cement for Smoothing	Sq Ft	15	.	.	.	.	.	15	.	.	15	15	
42z	" " " "	.	.	.	.	.	.	.	.	.	.	.	.	
42	Reinforcing Steel	Lbs	31600	10000	59200	42500	20500	25100	235700	75000	41800	116800	352500	
42	Structures	.	.	101800	101100	.	.	.	202900	.	.	202900	202900	
53c	Dr. Corrugated Metal Culvert Pipe	Sq Ft	216	.	.	.	.	.	378	620	.	620	1076	
53e	" " " "	.	568	.	.	.	.	.	568	920	.	920	1488	
53g	" " " "	.	194	.	.	.	.	.	194	496	.	496	690	
53h	" " " "	.	.	.	.	.	.	100	100	20	.	20	120	
53i	" " " "	.	.	.	.	.	.	.	75	75	.	75	75	
54	Dry Rubble Stone Paving (18" thick)	Sq Yd	.	.	.	.	.	.	.	.	.	.	.	
54a	Brass Name Plates	Each	.	.	1	.	.	.	2	.	.	2	2	
54b	Project Markers	.	.	.	4	.	.	.	1	.	.	1	4	
54c	Drain Pipe (Concrete Floor) (3"x4"x5')	.	.	.	2	.	.	.	2	.	.	2	2	
54d	" " " " (3"x4"x5')	.	.	.	.	.	.	.	10	.	.	10	10	
54e	Gravel Pipes 2"x2'-6"	.	.	.	.	.	.	.	.	.	.	.	.	
FORCE ACCOUNT ITEMS - WORK BY RAILROAD CO. FORCES														
Moving & Realigning R.R. Track & Temporary Road near Sta 480+ to 590+ Sta 590+ to 730+ & Sta 744+ to 815+ Sta 483+ to 590+ Sta 590+ to 815+														
Construct Grade Crossing, Sta 446+														
Moving & Resetting Water Tank & Pipe Line, Sta 714+														
FORCE ACCOUNT ITEMS - NOT RECEIVING FEDERAL AID.														
Move House off R.O.W., Sta 523+														
Move 2 Sheds off R.O.W., Sta 532+ to 533+														
Move 2 Buildings off R.O.W., Sta 741+														
Move 4 " " " " , Sta 753+ to 755+														
Move 2 " " " " & Scale Pit off R.O.W., Sta 814+ to 815+														
Move Section House off R.O.W., Sta 76+ to 77+														
WORK BY RAILROAD CO. FORCES.														
CONSTRUCTION DIV. 3. STA 477+26.1 TO STA 815+75														
28a	Gravel or Crushed Rock Surfacing	Ton	19000	.	.	20	20	40.	.	40	.	.	20000	
28c	Overhaul of Surfacing	Ton/Mi	20920	.	.	.	10	.	.	70	.	.	21000	
74x	Timber Guard Posts	Each	787	.	.	.	.	.	.	.	.	.	787	
75x	Meta. Plate Guard Fence	Lin. Ft	6130	.	.	.	23	46	.	46	.	.	5245	
120	Bleeding & Grading Roadway	Mile	64	.	.	.	.	.	.	.	.	.	64	

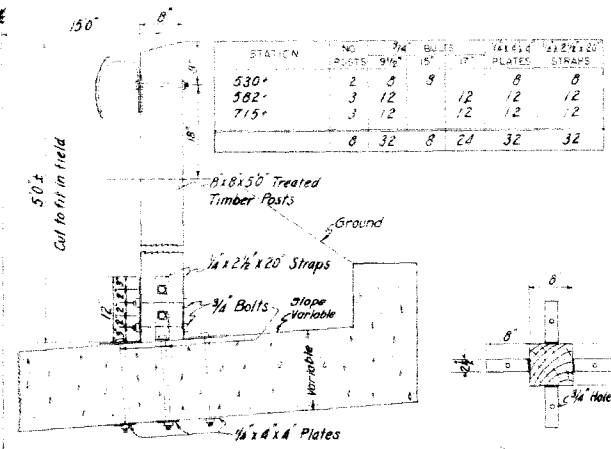
TEMPORARY RAILROAD TRACK WORK

It is estimated in the Department's plan of handling Railroad operations during construction that temporary Railroad Grades will have to be constructed by the Contractor between Stations listed in the tabulation below. Track work will be done by Railroad Co. forces. The approximate quantities involved in work to be done by Contractor are listed below.

STATION	APPROXIMATE QUANTITIES			ESTIMATED OVERHAUL	
	EXCAVATION CU YDS.	EMBANKMENT # CU YDS.	REM. EMBANK # CU YDS.	STA. YDS.	YD. MI.
490+50 - 509+50	700				
512+00 - 519+00	300				
522+00 - 528+50		1200		2700	60
530+00 - 541+50		3300		6500	200
544+50 - 549+50		600		1050	10
552+50 - 583+00	200	8500		16000	400
586+00 - 590+75		2200		5000	110
586+50 - 590+75			1800	3200	70
666+50 - 674+50	300				
685+50 - 692+00	600				
694+50 - 717+00	300	6500		13500	260
704+00 - 713+50			1200	2000	40
720+00 - 726+50		1800		3500	140
780+00 - 784+00		1000		1800	30
590+75 - 601+00	700	1100		2500	50
590+75 - 591+00			700	1300	30

TOTAL C.D. NO. 1	1200	15000	1800	34450	850
TOTAL C.D. NO. 2	1900	10400	1900	24600	550
TOTALS	3100	26200	3700	59050	1400

* Embankment Material encroaching on Creek Channels to be removed after R.R. tracks are in operation on final location.
 * Embankment Material for temporary Railroad Grades to be obtained from Channel Improvements, Roadway Excavation or Borrow Pits as sketched by the Engineer.
 Selected Material Requirements tabulated on Sheet #3



DETAIL OF GUARD FENCE POST CONNECTIONS
ON C.B.C.'S STA 530+, 582+, 575+

METAL PLATE GUARD FENCE

TO BE PLACED UNDER CONSTR. DIV. NO. 3

LOCATION		METAL PLATE GO FENCE
STA TO STA	SIDE	LIN. FT.
ROADWAY		
477+375 - 478+375	L	100
477+281 - 478+731	R	145
479+877 - 480+252	R	37.5
483+909 - 484+409	R	50
484+242 - 484+742	L	50
499+82 - 500+195	R	37.5
502+12 - 502+495	R	37.5
507+67 - 508+045	R	37.5
519+20 - 522+70	L	350
526+25 - 529+054	L	350
530+605 - 531+105	R	50
537+52 - 537+995	R	37.5
552+17 - 552+545	R	37.5
559+58 - 560+055	R	37.5
581+71 - 583+21	R	150
599+87 - 600+87	R	100
613+20 - 622+70	L	590
637+10 - 637+455	R	37.5
643+45 - 643+100	L	37.5
653+05 - 657+55	L	450
661+55 - 665+55	L	400
677+65 - 685+15	R	50
712+51 - 717+180	L	250
701+22 - 701+595	R	37.5
709+50 - 709+30	L	400
714+85 - 715+975	R	112.5
724+00 - 740+00	L	1600
756+75 - 757+25	L&R	100
804+00 - 806+00	L	200
814+30 - 814+875	R	37.5
575+45 - 575+865	R	37.5
TOTAL		62450

* Guard Fence within limits of and charged to Bridges.
 Sta. 530+70 - 530+93 Rt. 23 Lin. Ft.
 Sta. 582+23 - 582+69 Rt. 46 Lin. Ft.
 Sta. 715+12 - 715+58 Rt. 46 Lin. Ft.

Note: The end of post shall be cut on bevel to fit slope of concrete, holes for connection bored, and the end of post treated with three coats of hot creosote oil and then given a thick application of hot pitch or asphalt. Cost of special posts and fittings as shown hereon shall be included in the original contract price per linear foot for Metal Plate Guard Fence.

TIMBER GUARD POSTS

TO BE PLACED UNDER CONSTR. DIV. NO. 3

LOCATION					LOCATION				
STA. TO STA	SIDE	SPAC	NO		STA TO STA	SIDE	SPAC	NO	
ROADWAY					ROADWAY				
485+30 - 488+00	R		50	8	684+65 - 688+65	L		50	9
489+10 - 494+50	R		20	20	688+90 - 692+30	L		20	18
497+340 - 504+60	L		50	15	692+60 - 698+10	L		50	12
505+00 - 510+10	L		30	18	698+30 - 701+10	L		20	15
510+40 - 519+40	L		50	19	701+30 - 705+30	L		50	9
523+00 - 526+00	L		50	7	709+60 - 722+10	L		50	20
529+325 - 530+60	L		50	75	710+90	R	Culvert		1
560+50 - 573+30	L		20	33	722+40 - 723+80	L		20	8
573+70 - 590+684	L		50	37	742+50	R	Culvert		3
590+50 - 597+10	L		20	32	744+00 - 745+10	L		50	21
597+30 - 602+30	L		50	11	749+00	R	Culvert		3
602+50 - 606+70	L		20	22	750+00 - 764+90	L		50	1
607+00 - 608+60	L		30	2	765+10 - 767+50	L		50	18
608+10	R	Culvert		1	769+78 - 779+78	R		50	25
609+00 - 613+20	L		20	22	776+90	R	Culvert		1
613+40 - 617+00	L		30	13	780+00 - 782+00	L		20	11
622+60 - 627+957	L		50	24	782+20 - 783+10	L		50	10
628+25 - 643+25	L		50	30	804+00	R	Culvert		1
631+00	R	Culvert		1	806+10 - 815+10	L		50	91
634+70	R	Culvert		1	820+18 - 820+25	L	Timber		4
647+40 - 652+655	L		50	12	822+24 - 822+55	L&R	Timber		10
651+25	R	Culvert		1	822+85 - 823+45	R		20	4
657+75 - 661+354	L		50	13	842+00	R	Culvert		2
669+75	R	Culvert		1	848+15	R	Culvert		1
665+75 - 674+25	L		50	18	871+00	R	Culvert		1
676+45	R	Culvert		1	841+00 - 841+60	R		20	4
677+00	L		50	2	706+75	R	Culvert		1
680+00 - 684+80	L		20	22	788+55 - 802+094	L		30	43
TOTAL					787				

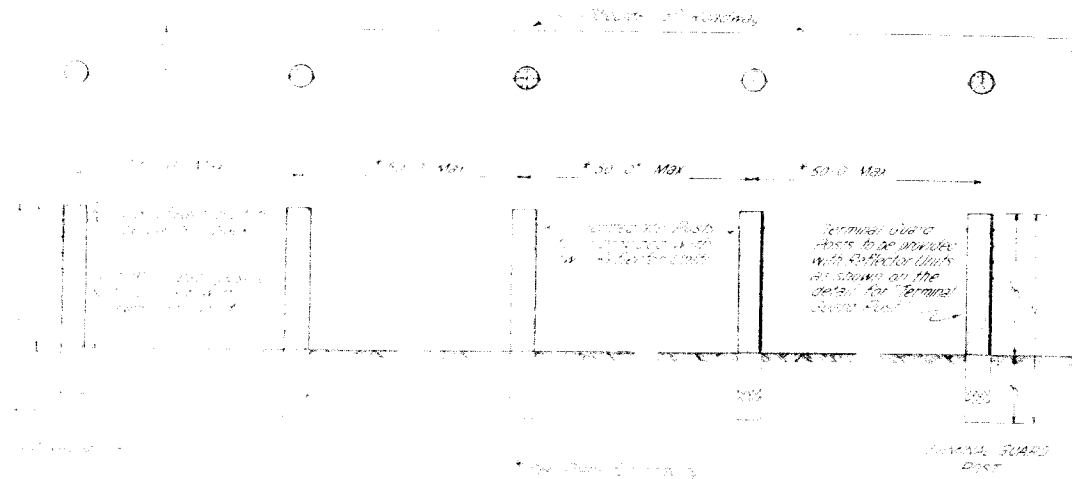
SURFACING PLAN

TO BE PLACED UNDER CONSTR. DIV. NO. 3

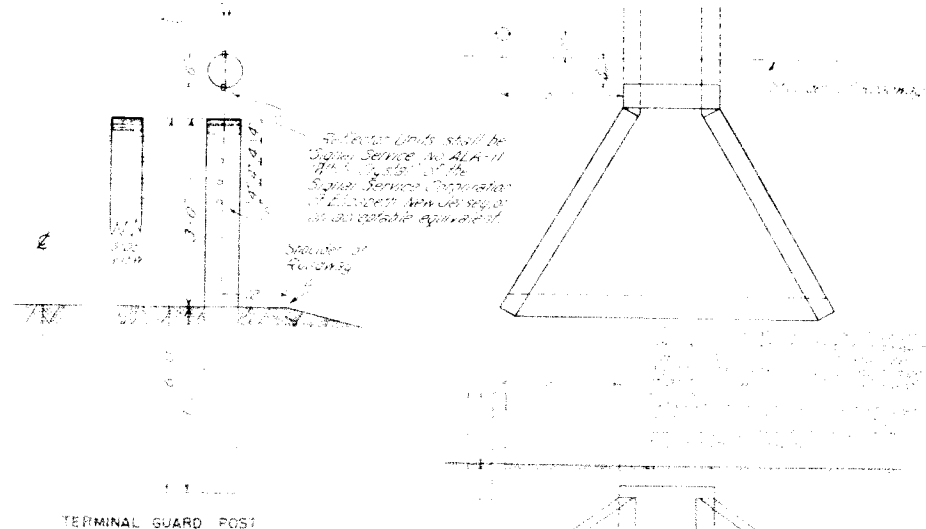
MATERIAL TO BE PLACED STA. TO STA.	APPROXIMATE QUANTITIES TONS	ESTIMATED OVERHAUL TON MI.	SOURCE OF MATERIAL
ROADWAY			
477+375 - 478+731	80		F.H.
477+375 - 478+731			F.H.
494+05 - 488+80	280		F.H.
469+03 - 500+00	600		F.H.
500+00 - 530+75	1755	30	F.H.
530+93 - 582+23	2850	40	F.H.
582+69 - 715+12	7400	3900	F.H.
715+58 - 815+75	5600	14500	F.H.
CURVE ADJUSTER			
518+45 - 530+70	150	40	
585+95 - 715+12	550	350	
796+36 - 815+75	150	300	
APPROACHES			
583+	20		F.H.
714+00	20	40	
814+80	20	60	
TOTAL	19470	20250	
BRIDGES			
488+80 - 489+03	20		F.H.
530+70 - 530+93	20	10	
582+23 - 582+69	40		F.H.
715+12 - 715+58	40	70	
TOTAL	120	80	
PROJECT TOTAL	19590	20330	

STANDARD M-19-B

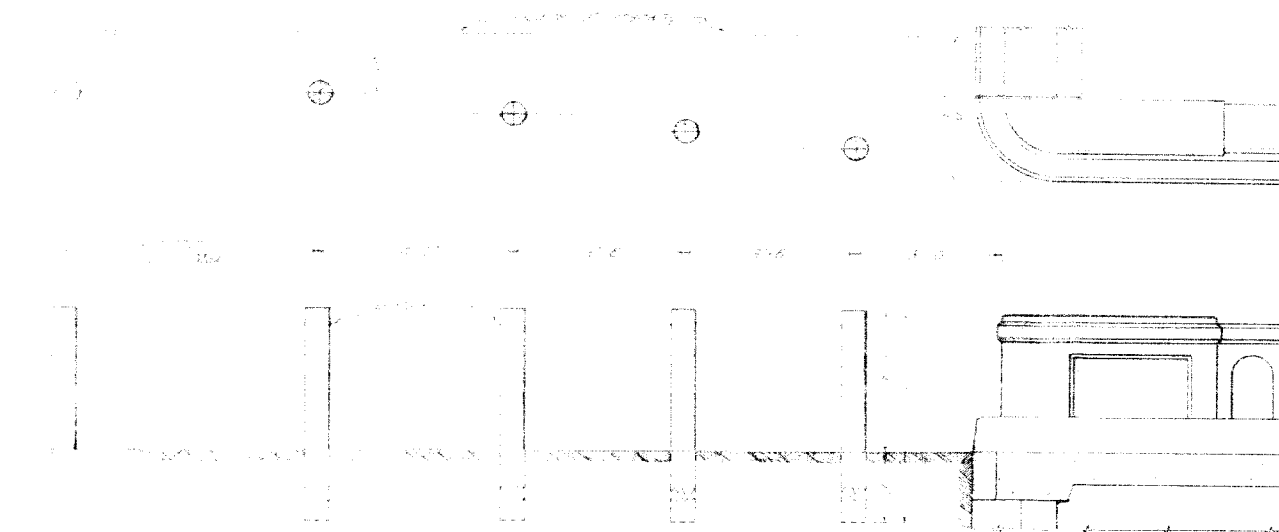
FED. HIGHWAY DIST. NO. 3 STATE **W.P.S.S.** 429A(1) 26
 COLO.



SHOWING PLACEMENT ON NORMAL ROADWAY FILLS



SHOWING PLACEMENT AT MINOR STRUCTURES



SHOWING PLACEMENT AT BRIDGE APPROACHES

Intermediate Guard Posts at Bridges to be provided with Reflector Units as shown that is one unit each on the three Posts nearest the bridge end and two units on the fourth Post.

GENERAL NOTES

1. Posts shall be placed at intervals of 500 feet on the Standard Specifications of the Colorado State Highway Department, adopted in 1937.
2. Posts shall be made of steel or aluminum.
3. Posts shall be painted white and shall have three diagonal stripes of red or orange.
4. Posts shall be placed at the end of the bridge and at the approach.
5. Posts shall be placed at the end of the bridge and at the approach.
6. Posts shall be placed at the end of the bridge and at the approach.
7. Posts shall be placed at the end of the bridge and at the approach.
8. Posts shall be placed at the end of the bridge and at the approach.
9. Posts shall be placed at the end of the bridge and at the approach.
10. Posts shall be placed at the end of the bridge and at the approach.

COLORADO
 STATE HIGHWAY DEPARTMENT
 STANDARD
 TIMBER GUARD
 POSTS

Designed by *CE* Approved by *W.P.S.S.*
 Made by *W.P.S.S.*
 Checked by *W.P.S.S.* Date *2-4-1939*

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W-98-000000 CONV. RY. 3	29	

The drawing consists of two main parts: a PLAN view at the top and an ELEVATION view at the bottom.

PLAN View: Shows the bridge deck from above. It features a central section with five support structures. Dimensions include a total width of 9' 6" and individual support widths of 4' 6" and 4' 0". A label "Shoulder of Roadway" points to the outer edges. A note states "Metal plates to be not lighter than No. 10 U.S. standard gage." An arrow indicates the "Direction of Traffic" from left to right. The word "PLAN" is centered below the view.

ELEVATION View: Shows the bridge from the side. It includes a "Ground line" and "End Panel" labels. A note specifies "All posts to be 6' x 8'". Dimensions for the span between supports are given as "12' 6" Maximum" (repeated five times). The word "ELEVATION" is centered below the view.

DETAILS:

- LEFT END SEC. RIGHT END SEC. DETAIL OF END WINGS:** Located to the right of the plan view, showing cross-sections of the bridge ends.
- DETAIL OF RAIL PLATE:** Located to the right of the elevation view, showing a close-up of the rail and its supporting plate with dimensions like 1' 6", 1' 0", and 1' 6".

At the bottom center, the text reads: "FLEXBEAM TYPE. ITEM No. 756."

[illegible][illegible]

1. All work shall be done in accordance with the Standard Specifications of the State of North Carolina Highway Department Adopted June 1, 1937.

2. Only one type of metal plate quadrangle or posts may be used on a project and use of the metal plate quadrangle type is shown on the drawing notes.

3. All work shall be done in accordance with the Standard Specifications of the Department and the Standard Specifications may be used.

4. All wood posts shall be made from seasoned, straight, sound, Drier Southern Yellow Pine on the South Side of the Coast Region.

5. All wood posts shall be full size, 4" x 4" and 6" x 6" square.

6. All wood posts shall be thoroughly seasoned and dry.

7. All wood posts and all wood nails shall be of the same material and of the same treatment as the nails.

8. All wood posts shall be pressure treated with creosote for the full length of posts as provided for in the specifications.

9. All wood posts shall be set on a tamp of a plumb and firm, the lines and grades as directed by the engineer.

10. All metal connecting devices, hardware and supports shall be hot dip galvanized.

11. All metal connecting devices, hardware and supports shall be painted and shall not be galvanized, but shall be painted as provided for in the specifications.

12. Metal plates shall not be thicker than that shown on this sheet for each type and in no case to be thicker than 1/4" (3/16" for Standard Gauge).

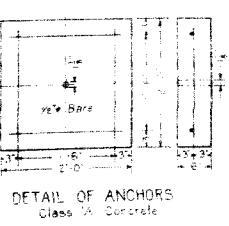
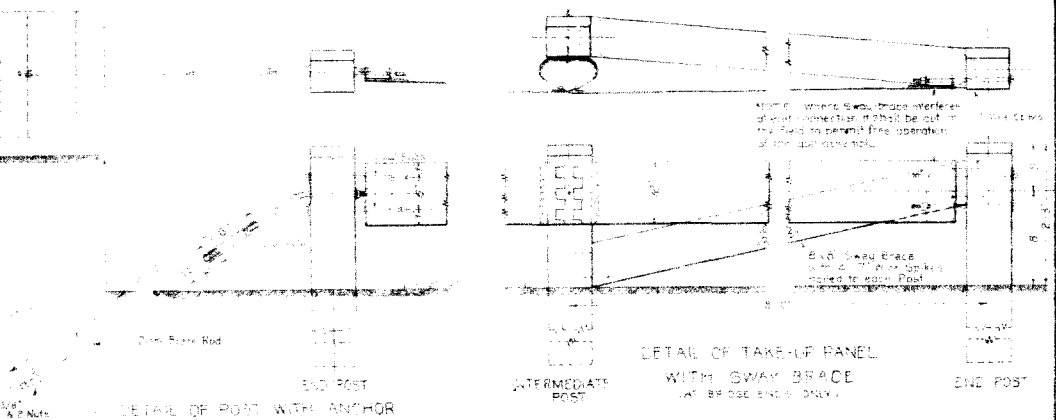
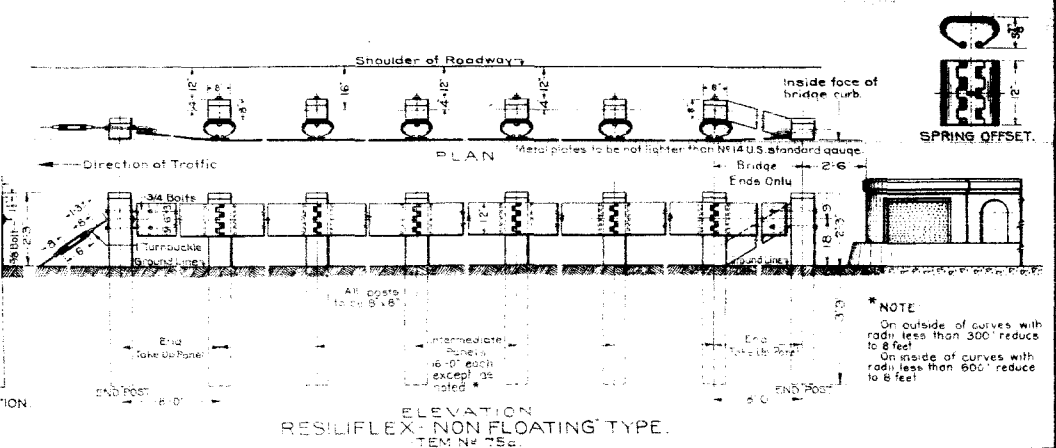
13. The length of corner fence to be measured on the line between the sidewalk and the normal roadway shoulder.

14. Where guard fences are constructed on the approaches to bridges with side fence or bridge shall be placed in line with the face of the curbing on the bridge.

STANDARD METAL PLATE GUARD FENCE BEAM TYPES

Designed by A.G.N.	Approved by
Made by A.G.N.	Bridge Engineer
Checked by	Date

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL
0	COLORADO	100-1-100	1	1



GENERAL NOTES.

- All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department. Appended to the 1957.
- Only one type of metal plate guard fence, on posts, may be used on a project.
- In lieu of the metal plate guard fence types as shown on this drawing, other equivalent forms and materials of metal plate guard fence, approved by the department and complying with the specifications, may be used.
- Where posts are spaced eight (8) feet on centers, every alternate bracket may be a full floating bracket except those on "End Take-Up Panels".
- All wood posts shall be made from seasoned, straight sound Dense Southern Yellow Pine or Douglas Fir of the Coast Region.
- All wood posts shall be four (4) x 6 x 10 as specified and shown.
- All wood posts shall be thoroughly seasoned and dry, with tops beveled and all holes drilled no larger than diameter of bolt or rod before equipment is applied.
- All wood posts shall be painted, or treated with preservative for the full length of posts as provided for in the specifications.
- All wood posts shall be set and tamped in, plumb and firm, to the lines and grades as directed by the engineer.
- All metal connecting devices, hardware and supports shall be hot dip galvanized, except that offset spring fittings may be electroplated. Metal plates shall not be galvanized, but shall be painted as provided for in the specifications.
- Metal plates shall not be lighter than that shown on this sheet for each type and shall be not lighter than NEMA standard gauge.
- The length of guard fence to be laid for and designated on plans shall be measured from center to center of end posts.
- Standard galvanized or 1/4 inch 2 x 4 or galvanized malleable cast washers shall be used in all bolt heads coming in contact with wood posts.
- Where guard fences are constructed adjacent to the one for traffic, guard fence shall be placed in such manner that the fence lies on the line between the sidewalk area and the normal roadway shoulder.
- Where guard fences are constructed on the approaches to bridges with sidewalks, the fence on bridge shall be placed in line with the face of the curbing on the bridge.

COLORADO
 STATE HIGHWAY DEPARTMENT

STANDARD
 METAL PLATE GUARD FENCE
 FLOATING & NON-FLOATING
 TYPES

Designed by ASK Approved by
 Made By ASK Bridge Engineer
 Checked by Date:

STANDARD M-I-B

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	129A	32	

GENERAL NOTES

Curves on projects using the Sections shown are to be superelevated and widened as indicated in the accompanying drawings and tables.

The normal inside edge of the Pavement slab is to remain at the standard elevation of 0.125 ft below the profile grade, and the outside edge of the slab is to be superelevated at the rate per foot width of roadway given in the table. The Section is to be rotated about the normal inside edge of the Pavement, with a 1/4" parabolic crown for curves of 10° and under, and a flat crown for widened Sections.

The normal inside edge of the Graded or Surfaced Section is to remain at the standard elevation of 0.02 ft per foot width of roadway below the profile grade, or as shown on the Typical Section for the Project. Also, the center-line pivot point is to be used until the superlevation equals 0.02 ft per foot width of roadway, but when this elevation is exceeded the normal inside shoulder pivot point is to be used.

When the degree of curvature exceeds 10°, the inside edge of the Pavement slab or the inside shoulder of the Graded or Surfaced Section is to be widened from the normal inside edge or shoulder, respectively, as shown by the table and plan or by cross-sections. Curves of 10° or less are not to be widened.

The slope of the shoulders and widened sections shall conform to the rate per foot width of roadway required, except that the inside shoulder of paved sections shall maintain the Typical Section slope until this slope is exceeded by the required superlevation slope.

The outside ditch on superelevated Sections is to be modified, where necessary to provide drainage. Otherwise, this ditch shall conform to normal ditch section shown for Project.

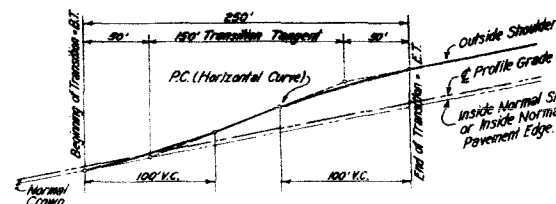
The rate of superlevation per foot width of roadway to be applied at the outside shoulder of the roadway is computed as follows:

The full superlevation per foot width of roadway rate for a given degree of curvature is

$$0.0105 \text{ ft} \times \text{Degree of Curvature}$$

The maximum superlevation of 0.10 ft per foot width, applying to curves of 10° and over, is not to be exceeded.

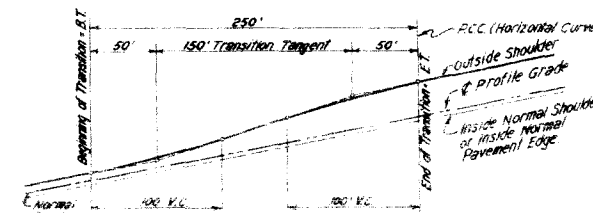
Special transition problems not covered by this standard sheet shall be covered by appropriate notes included with curve data or plans.



CASE I: SIMPLE CURVE WITH UNLIMITED TANGENT APPROACH

NOTE CASE I

The transition in this case, from crowned section to super-elevated section, shall proceed uniformly by raising the outside shoulder, over a distance of 250 ft, as shown, beginning at a point on the tangent 150 ft from the end of the curve and acquiring full superlevation at a point 100 ft inside the curve.



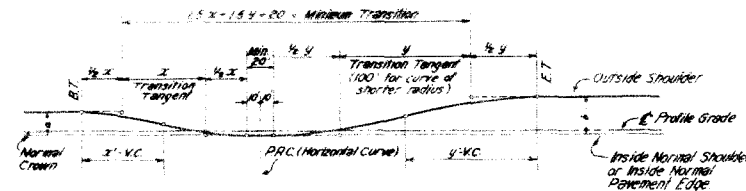
CASE II: COMPOUND CURVE

NOTE CASE II

Super-elevation transitions at the outside ends of compound curves shall be constructed in accordance with rules given under CASE I.

Super-elevation transition between the arcs of different radii shall be made as in CASE I, except that the entire transition shall be within the limits of the curve of the longer radius.

In cases where curves in the same direction have a tangent distance of less than 300 ft between points of curve, the intervening tangent shall be super-elevated an amount equal to that of the curve of greater radius and the transition shall be made as in the case of a true compound curve.



CASE III: REVERSE CURVES

NOTE CASE III

Transitions between true reverse curves shall be accomplished as shown on the above diagram.

Transition tangents shall be directly proportional to the amount of super-elevation of the respective curves.

EXAMPLE: Let a represent the amount of super-elevation on 1st curve;

x : : : : transition tangent on 1st

b : : : : transition tangent on 2nd

then, $a : b = x : y$

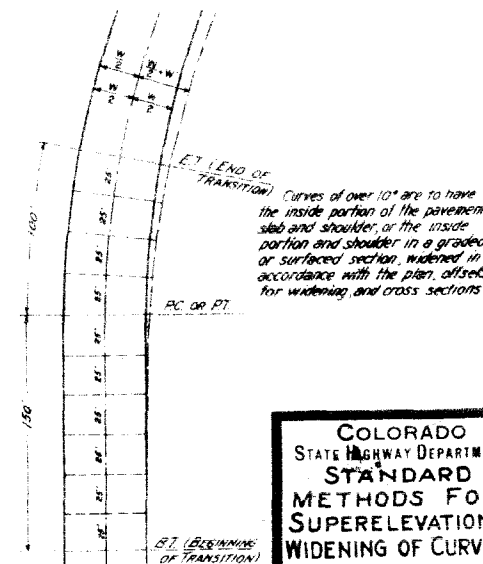
The transition tangent of the curve having the shorter radius shall be set at 100 ft.

A normal crowned section 20 ft long, 10 ft on each side of the P.C. shall be used.

In cases where curves in opposite directions are in such proximity that a standard transition can not be had, the practice outlined for true reversing curves shall be used.

The total distance between the P.T. of the first curve and the P.C. of the succeeding curve shall be prorated into the transition distance of the respective curves until a maximum of 150 ft of transition tangent for each curve is achieved.

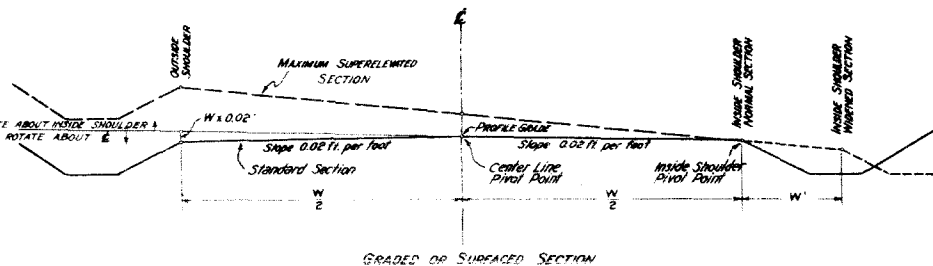
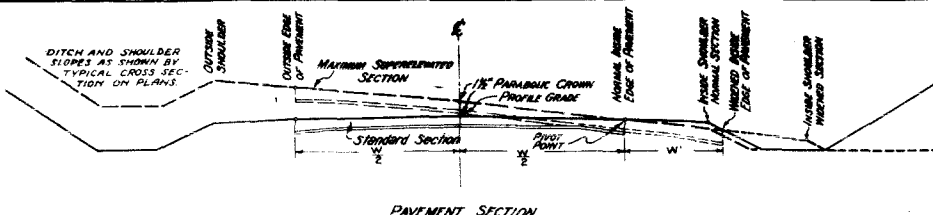
GENERAL PLAN OF WIDENING



Curves of over 10° are to have the inside portion of the pavement slab and shoulder, or the inside portion and shoulder in a graded or surfaced section, widened in accordance with the plan, offsets for widening, and cross sections.

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD
METHODS FOR
SUPERELEVATION &
WIDENING OF CURVES

Designed by R.E.L. Approved by P.B.D.
Made by P.B.D. Checked by P.B.D. Date FEB 29th 1937



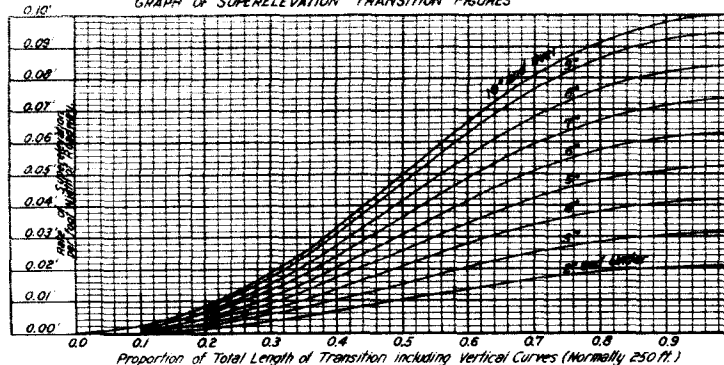
SUPERELEVATION AND WIDENING TABLES

DEGREE OF CURVATURE	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
2° and Under	0.00044	0.00075	0.00109	0.00143	0.00177	0.00211	0.00245	0.00279	0.00313	0.00347
3°	0.00066	0.00113	0.00160	0.00207	0.00254	0.00301	0.00348	0.00395	0.00442	0.00489
4°	0.00088	0.00150	0.00212	0.00274	0.00336	0.00398	0.00460	0.00522	0.00584	0.00646
5°	0.00109	0.00183	0.00257	0.00331	0.00405	0.00479	0.00553	0.00627	0.00701	0.00775
6°	0.00131	0.00217	0.00303	0.00389	0.00475	0.00561	0.00647	0.00733	0.00819	0.00905
7°	0.00153	0.00251	0.00349	0.00447	0.00545	0.00643	0.00741	0.00839	0.00937	0.01035
8°	0.00175	0.00285	0.00395	0.00505	0.00615	0.00725	0.00835	0.00945	0.01055	0.01165
9°	0.00197	0.00317	0.00437	0.00557	0.00677	0.00797	0.00917	0.01037	0.01157	0.01277
10° and Over	0.00200	0.00333	0.00467	0.00600	0.00733	0.00867	0.01000	0.01133	0.01267	0.01400

OFFSETS FOR WIDENING - W' (IN FEET)

DEGREE OF CURVATURE	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Over 10° - Under 12°	0.03	0.12	0.27	0.48	0.75	1.08	1.47	1.92	2.43	3.00
12° - 15°	0.04	0.16	0.36	0.64	1.00	1.44	1.96	2.56	3.24	4.00
15° - 20°	0.05	0.20	0.45	0.80	1.25	1.80	2.45	3.20	4.05	5.00
20°	0.06	0.24	0.54	0.96	1.50	2.16	2.94	3.84	4.86	6.00

GRAPH OF SUPERELEVATION TRANSITION FIGURES



[illegible]

FED ROAD DIST NO	STATE	MAP S.S. PROJ NO	SHEET NO	TOTAL SHEETS
9	COLORADO	429A0	33	

Revised 8-18-59-A.Z. - Changed side chain pole

[illegible][illegible]

A hand-drawn map of a rectangular plot. The plot is oriented horizontally. The top boundary is labeled "3000'". The right boundary is labeled "1000'". The bottom boundary is labeled "3000'". The left boundary is labeled "1000'". The plot is divided into four quadrants by a horizontal line and a vertical line. The top-left quadrant is labeled "S. 1/4 Sec. 36, T. 1N, R. 1E". The top-right quadrant is labeled "S. 1/4 Sec. 37, T. 1N, R. 1E". The bottom-left quadrant is labeled "S. 1/4 Sec. 38, T. 1N, R. 1E". The bottom-right quadrant is labeled "S. 1/4 Sec. 39, T. 1N, R. 1E". The plot is surrounded by a fence. The map is drawn on a piece of paper with a grid.

Work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, effective June 1937.

When traffic is stopped while work is in progress, the Contractor shall use the following advance and retrograde stop signs, and shall place stop signs at all crossings on the Project with well placed, well lighted, well marked and standard painted and warning signs. The Contractor shall also mark with standard advance signs all places where the direction of the flow of traffic is not plain.

Whenever traffic is prohibited from a Project under construction, the Detour will be marked by the Department and the indication of either grade of the Project shall be erected and maintained by the Contractor.

Stop signs and advance signs shall be immediately moved, added, removed, or the need to appropriate them marked, hazards or conditions created, corrected or changed by construction progress.

The Contractor shall furnish:

1. All barricade material. It shall always be well painted as per sketch, and well maintained.
2. A reflectorized arrow of an approved type for each part of the ends of the Project and at other places required where traffic is permitted on road under construction.
3. "AHEAD ROAD WORK" advance construction signs as required.
4. Any special signs the Department may deem necessary for the protection of traffic over the Project.
5. All least three (3) flags or torches for each barricade and other flags to illuminate such signs as are called for on these plans, or as the Department may direct.

Flags or torches shall be placed between 3 and 5 feet ahead of the sign or object to be illuminated and shall be burning from sunset to sunrise.

Costs of oil or kerosene for burning materials and work by the Contractor shall be included in the original contract prices for the Project.

The Highway Department will furnish all standard signs not required to be furnished by the Contractor.

COLORADO
STATE HIGHWAY DEPARTMENT
TRAFFIC
SIDE APPROACH ROADS
ROADWAY CONSTRUCTION
TRAFFIC SIGNS

DESIGNED BY <i>W. B. ...</i>	APPROVED BY <i>W. B. ...</i>
MADE BY <i>W. B. ...</i>	DATE <i>Aug 20, 1938</i>
CHECK BY <i>W. B. ...</i>	
FILED BY <i>W. B. ...</i>	

SLOW
ROAD UNDER
CONSTRUCTION
CONTRACTOR'S NAME

Sign to be made on poster of 15 ft at least that
reads on the sign. Background to be white, 320
inches. The sign to be 4 ft high and 15 ft long. The
letter sign to be set on 1 ft high posts 4 ft in the
ground.

Diagram illustrating a road construction site. A worker in a hard hat and safety vest stands on a signpost. The signpost has two signs: a "ROAD CLOSED" sign and a "ROAD AHEAD" sign. The road is marked with yellow and black diagonal stripes. A dashed line indicates the "ROAD CLOSED" area. A solid line indicates the "ROAD AHEAD" area. A dashed line indicates the "ROAD AHEAD" area. A dashed line indicates the "ROAD AHEAD" area.

[illegible][illegible][illegible]

10'
 30'
 30'
 20°

Posts to be 4"x6" painted white.
 Brace and brace to be 2"x6" painted white, and nailed with 2d nails. Base to be weighted, if necessary for stability.

STANDARD
M-2-B

WPSS 429-A(2)

Sta. 479+678 to Sta. 482+95

Sta 477+ to 590 - Reqd 100 cu yds Boulder Excavation. This excavation will be required at various locations on the Project to be designated by the Engineer during construction. This quantity may be materially increased or decreased during construction to meet actual construction requirements.

Revised 4-21-30 H.J.S.
Revised Index 5-25-38 H.J.S.
Rev. Abut. No. 1, F-15-U 4-21-39 R.A.D.
Rev. WPSS 429-A(1) C.D. #3-7-25-39 H.J.S.
Rev. WPSS 429-A(2) 8-5-39 H.J.S.
Rev. WPSS 429-A(1) C.D. #3 & 429-A(2) 1-11-39 T.T.

STATE OF COLORADO
COUNTY OF GARFIELD
PROJECT NO. 429-A(2)
SHEET 11

- Sta 479+678-479+97.8- Reqd. Reinf. Conc. Bridge Slab (Details Sht. # 7)
- Sta 479+678- Reqd. Rem. 0'x12'x40' Timber Header.
- Sta 479+97.8-480+28.7- Reqd. 100 Sq Yds Conc. Pavement (Details Sht. # 7)
- Sta 479+678-480+28.7- Reqd. 40 Cu Yds. Sel. Material for shoulders Rt & Lt.
- Sta 480+28.7-480+38.7- Reqd. Tunnel Portal (Details on Shts # 4 & 6)
- Sta 480+28.7-482+21.1- Reqd. 480 Sq Yds Concrete Pavement (Details on Sht. # 3)
- Sta 480+28.7-482+21.1- Reqd. 395 Lin. Ft. Comb. Recessed Reflector Curb & Gutter Rt & Lt. (Details on Sht. # 3)
- Sta 480+28.7-482+21.1- Reqd. 1000 Sq Ft. Conc. Sidewalks Rt & Lt. & 50 Cu Yds. Selected Material to fill under sidewalk. (Details on Sht. # 3)
- Sta 482+16.4-482+21.1- Reqd. Tunnel Portal (Details on Shts # 5 & 6)
- Sta 482+21.1-482+65- Reqd. 140 Sq. Yds. Conc. Pavement (Details on Sht. # 7)
- Sta 482+65-482+95- Reqd. Reinf. Conc. Bridge Approach (Details on Sht. # 7)
- Sta 482+21.1-482+95- Reqd. 40 Cu Yds. Sel. Material for shoulders Rt & Lt.
- Sta 482+95- Reqd. Rem. 0'x12'x40' Timber Header.

Selected Material for above locations is estimated to be available from Pit Rt. & Lt. 482+100 & is to be classified and paid for as "Unclassified Excavation."

Estimated over-haul involved:

Sta 479+480+400 Sta Yds. Overhaul
Sta 480+400+450 Sta Yds. Overhaul
Sta 482+750 Sta Yds. Overhaul

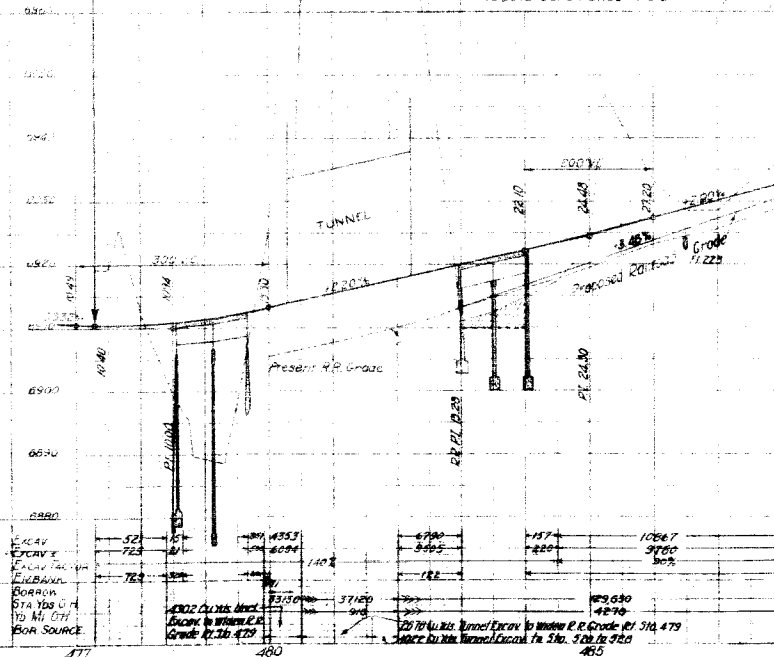
NOTES ON STRUCTURE NO. F-15-T

PRESENT STRUCTURE	PROPOSED STRUCTURE
Span	Position referred to present structure
Clear Roadway	Span 28'-0"
Clear Waterway	Clear Roadway 30'-0"
Type of Superstructure	Clear Waterway 54.6 Sq. Ft.
Type of Substructure	Type of Superstructure Conc. & I Beam
Requirements as to removal	Type of Substructure Abut. #1 Concrete, Pier #2 Conc.
STREAM DATA	Detour structure requirements None
Drainage Area in Sq. Ft. 290	Detour structure requirements None
Velocity during high water	Detour structure requirements None
ELEVATION OF	Detour structure requirements None
Maximum high water Low water	Detour structure requirements None
Normal stage stream bed 6963.5	Detour structure requirements None
Drift Scour	Detour structure requirements None

NOTES ON STRUCTURE NO. F-15-U

PRESENT STRUCTURE	PROPOSED STRUCTURE
Span	Position referred to present structure
Clear Roadway	Span 28'-0"
Clear Waterway	Clear Roadway 30'-0"
Type of Superstructure	Clear Waterway 54.6 Sq. Ft.
Type of Substructure	Type of Superstructure Conc. & I Beam
Requirements as to removal	Type of Substructure Abut. #1 Concrete, Pier #2 Conc.
STREAM DATA	Detour structure requirements None
Drainage Area in Sq. Ft. 62	Detour structure requirements None
Velocity during high water	Detour structure requirements None
ELEVATION OF	Detour structure requirements None
Maximum high water Low water	Detour structure requirements None
Normal stage stream bed 6962.0	Detour structure requirements None
Drift Scour	Detour structure requirements None

STA. 477+281 END W.P.H. PROJECT NO. B.F. UNIT NO. 2
BEGIN WPSS PROJECT NO. 429-A(1)
CONSTRUCTION IN JULY 1933



STA 477+281 Reqd. Project Marker

STA 477+281 END W.P.H. PROJECT NO. B.F. UNIT NO. 2
BEGIN WPSS PROJECT NO. 429-A(1)
CONSTRUCTION IN JULY 1933

Notes: Alignment and Grades indicated herein are subject to adjustment during construction after approval from Denver Office.

Grade Fences and Guard Posts to be placed under Construction. Gate indicated on Sheet #8.

Grading and Blading indicated on Sheet #6.

Grading and Blading indicated on Sheet #6.

Grading and Blading indicated on Sheet #6.

Grading and Blading indicated on Sheet #6.

Grading and Blading indicated on Sheet #6.

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Grading and Blading indicated on Sheet #6.

Grading and Blading indicated on Sheet #6.

Grading and Blading indicated on Sheet #6.

Grading and Blading indicated on Sheet #6.

Sta 480+28.7-482+21.1 Reqd. 50 Tons Roadway (Details on Shts # 4 & 6)

Excavation from Channel Changes shall be used for constructing dikes, filling old channels, or in roadway embankments as directed by the Engineer.

Sta 479+678-479+97.8 Reqd. 2 Spans 60' x 14' Conc. & I Beam Bridge (Details on Shts # 4 & 6)

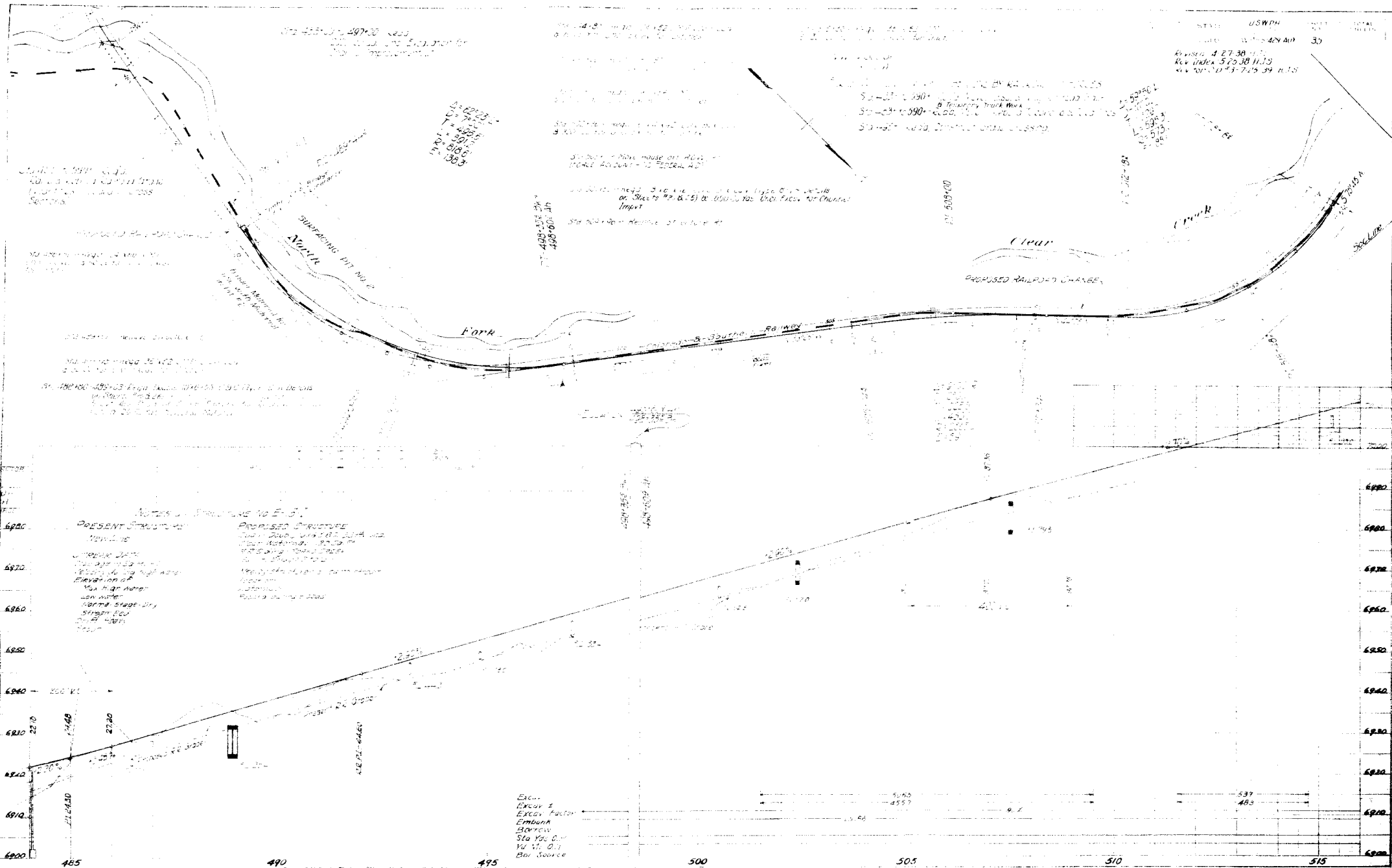
Sta 482+95-484+05 Reqd. 2 Spans 60' x 14' Conc. & I Beam Bridge (Details on Shts # 4 & 6) & 500 Cu Yds. Uncl. Excav. for Channel Improvement

WPSS 429-A(1)

Construction Div. #3 consists of Blading and Grading Roadway, Placing Surfacing Material, Guard Fences & Posts on the Project.

Surfacing Plan on Sht. No. 8 of Plans
Guard Fencing Reqd. on Sht. No. 6 of Plans
Guard Posts Reqd. on Sht. No. 6 of Plans

Sta 477+281-815+75 Reqd. 6.4 Miles Blading & Grading Roadway.



VW 1/4 Sec 36,
135 R 72 W

See 10-20-Reg-48-68 CML Cross Street and
30' x 10' Undr Excav for Inlet.

[illegible]

MS 523-0-Req'd 24"x66" CMP
Cross Street, & 32' to 1st Unit
Ready for Ditches

P. 522-302

[illegible]

35 miles to the north of the station, and
the station is the only one for the line.

1154 PH

413-40 301

$$R^2 = 0.77 \quad F_{(1,17)} = 22.92 \quad P < 0.001$$

K_2 1000 2.25 200 1.5
 K_3 1000 2.25 200 1.5

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* and *Agaricus bisporus* spores on the growth of *Agaricus bisporus*.

for example, implement it

$$\text{EQUA} \quad 541+13 = BH \quad 541+20 = AH$$

Δ 30° 19'
 D 8°
 T 1940
 L 3799
 R 7163
 E 258

DT 5.19+68.4

[illegible]

500 10, 500 10, 500 10
500 10, 500 10, 500 10

01594

7072
7060
7050
7040
7030
7020
7010
7000
EXCAV
EXT. AD
EXCAV
EMBARK
BORRO
STA YD
IDNTH
IDON S

EXCAV
EXT. AN.
EXCAV FACTOR
EMBANK
BORROW
STA YDS OM
TOTAL OM
FROM SOURCE.

1431 Cu Yds. Embank Material
to come from Tunnel Excavi
Sta. 481+

530

535

540

545

SW 1/4 Sec 26,
T33, R72W

Sta 543+9 - Reg'd 36"x34" CMP Cross
cont. 8 20 Cu Yds Undr Excav for Inlet.

Sta 542+25 - Reg'd 36"x34" CMP Cross
Detour on Streets 500.25 to 500 Cu Yds
Undr Excav for Channel Imprvt. Also Reg'd
Remove Str.

Sta 551+00 - Reg'd 36"x34" CMP Cross
cont. 1000 Cu Yds Undr Excav for Channel Improvement Lt.

NW 1/4 Sec 26,
T33, R72W

NW 1/4 Sec 26,
T33, R72W

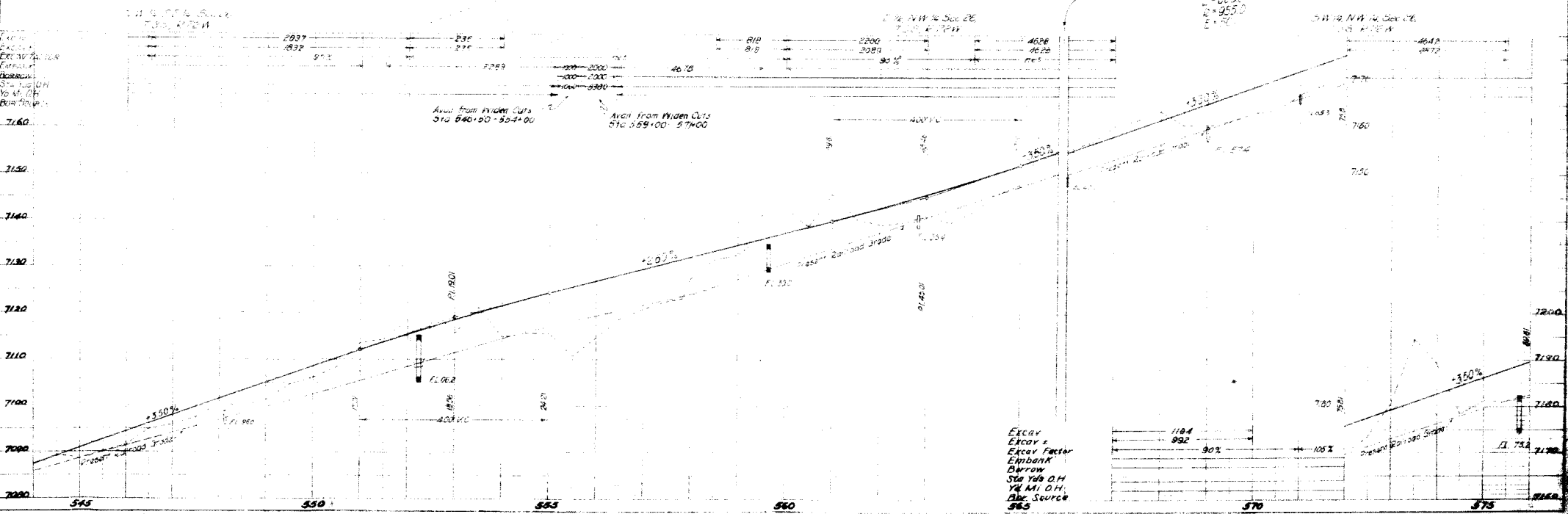
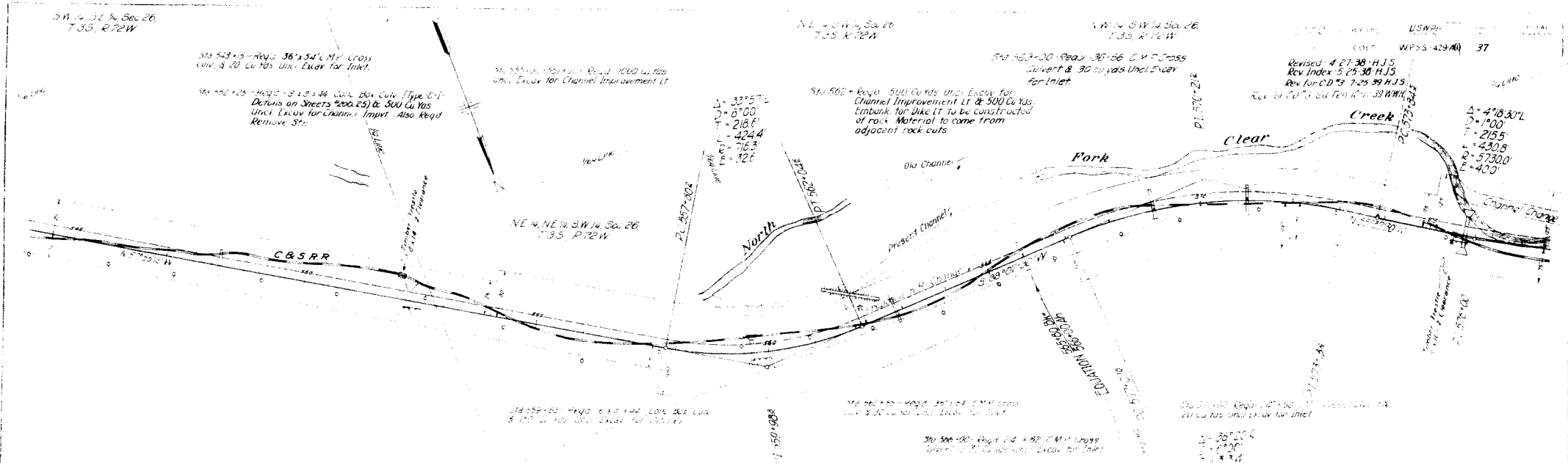
Sta 563+00 - Reg'd 36"x34" CMP Cross
cont. 8 20 Cu Yds Undr Excav
for Inlet.

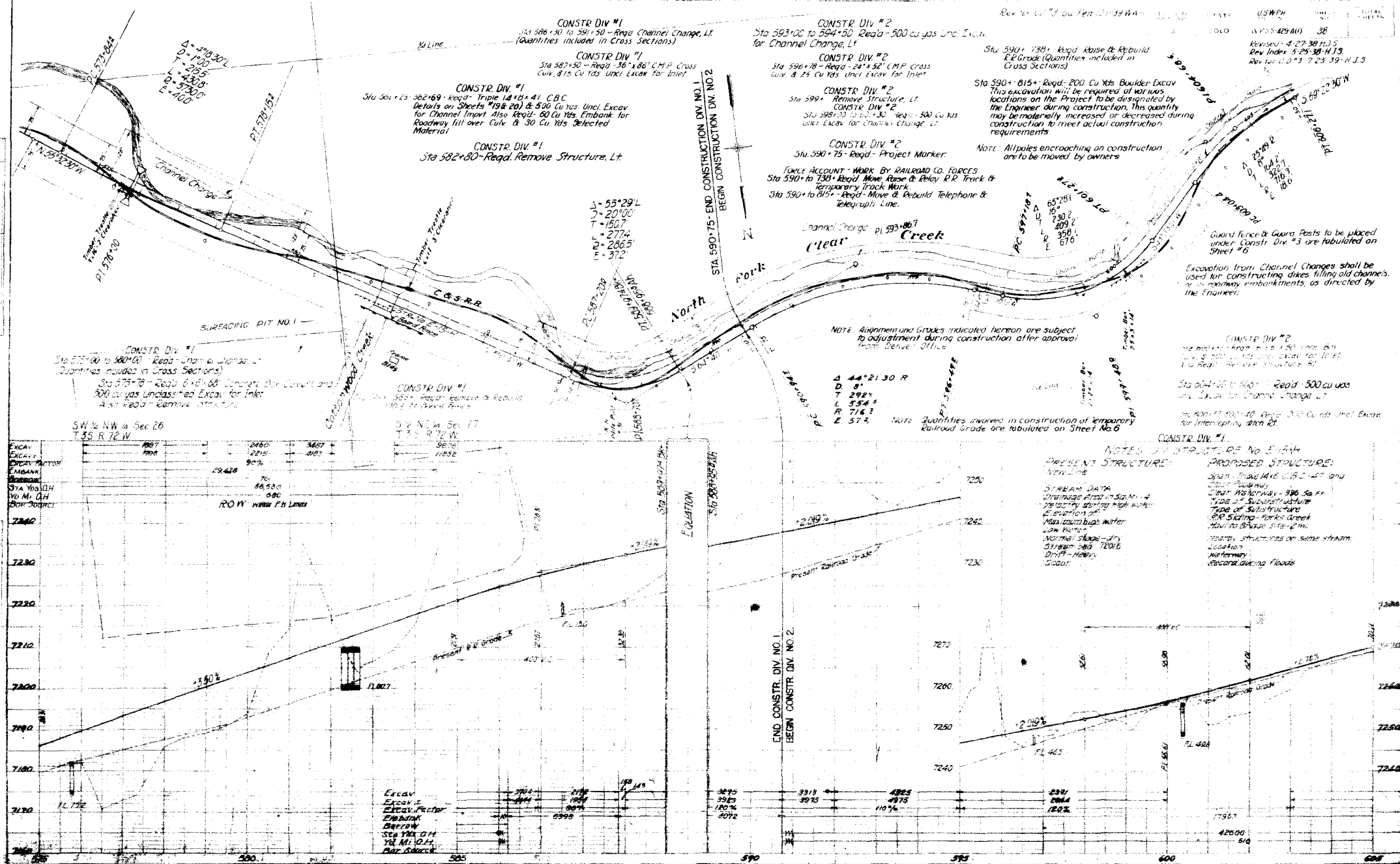
Sta 562+00 - Reg'd 36"x34" CMP Cross
cont. 500 Cu Yds Undr Excav for
Channel Improvement Lt. & 500 Cu Yds
Embank for Dike Lt. to be constructed
of rock. Material to come from
adjacent rock cuts.

USDA
WPS-42940 37

Revised: 4-27-38 - H.J.S.
Rev Index: 5-25-30 H.J.S.
Rev for C.D.'s 7-25-39 H.J.S.

Δ = 4°10'30"
D = 1400'
T = 215.5'
L = 430.8'
S = 57300'
E = 400'





Sta 606+00 to 611+50. 1/4" = 100' H.P. 1/2" = 100' V. 1/4" = 100' H.P. 1/2" = 100' V. 1/4" = 100' H.P. 1/2" = 100' V.

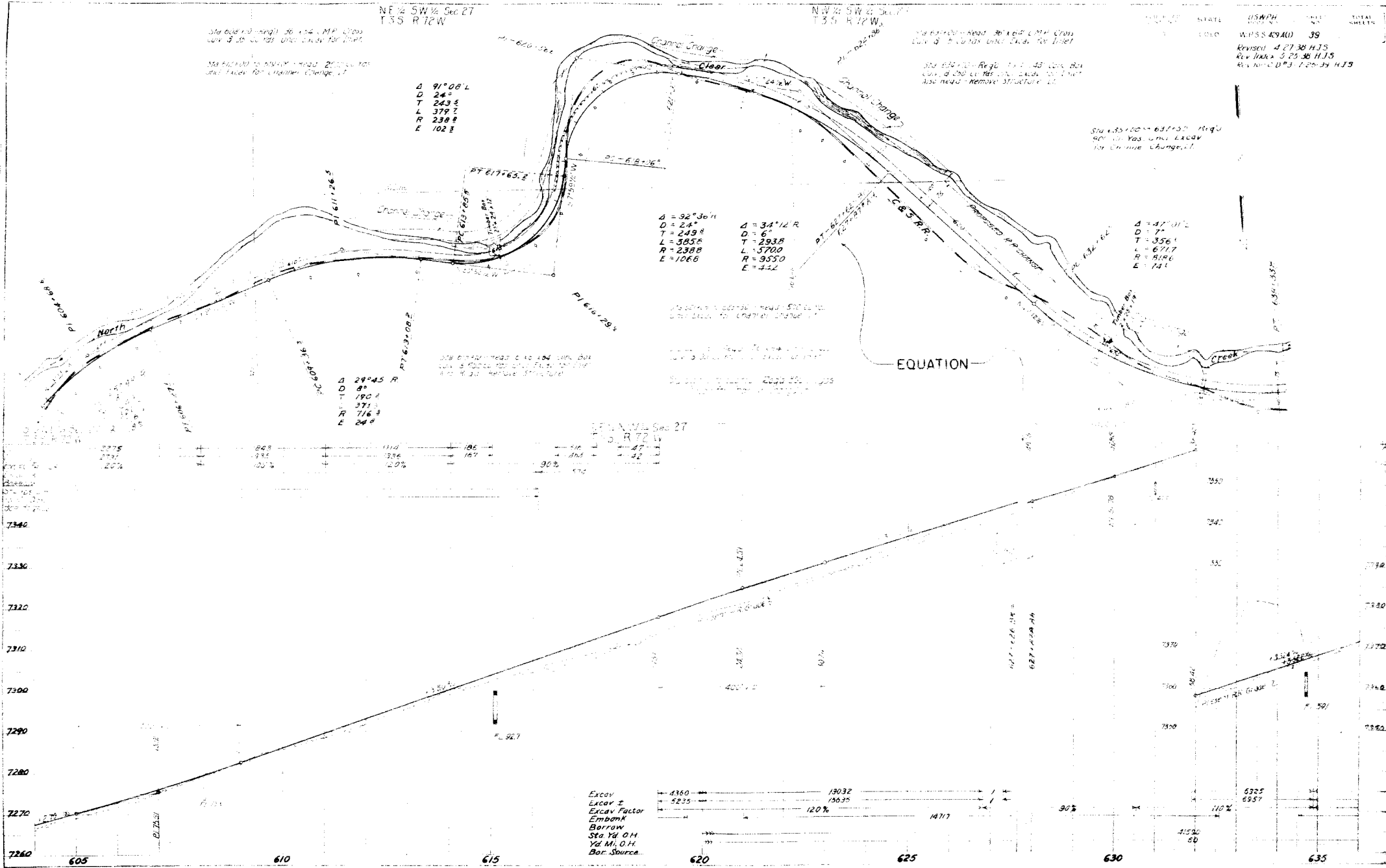
NE 1/4 SW 1/4 Sec 27
T 35 S R 72 W

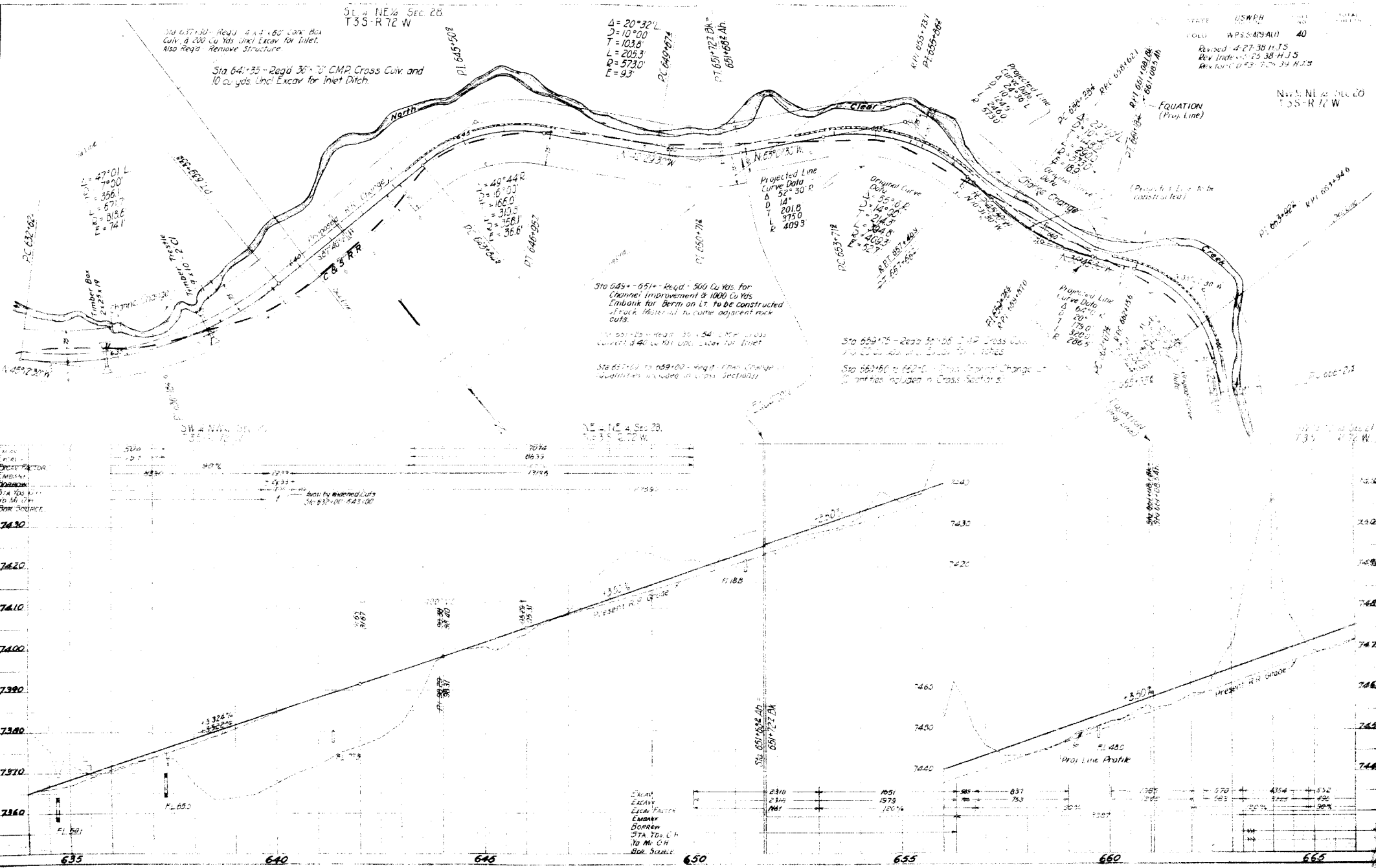
NW 1/4 SW 1/4 Sec 27
T 35 S R 72 W

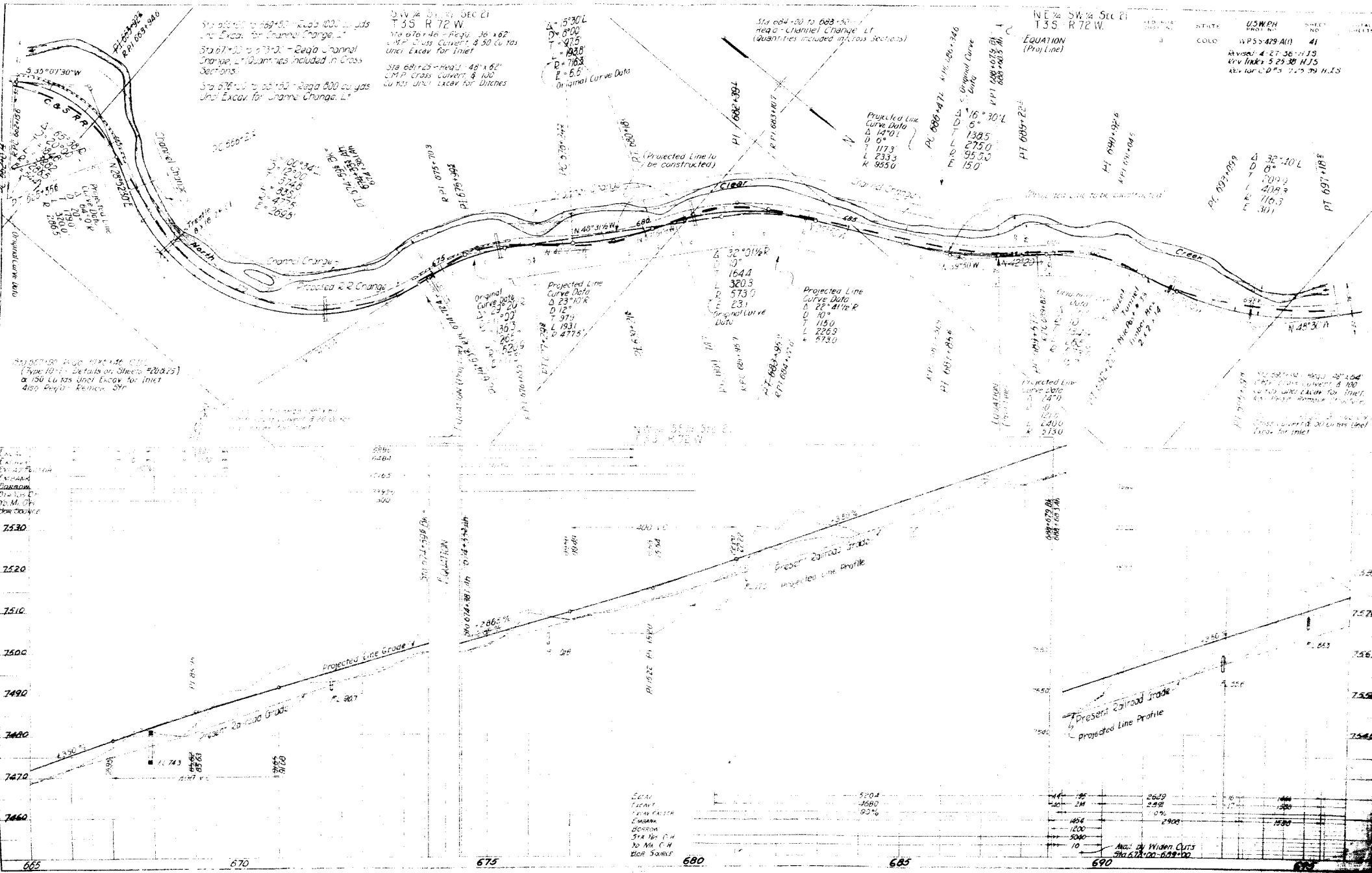
Sta 611+50 to 616+29.4. 1/4" = 100' H.P. 1/2" = 100' V. 1/4" = 100' H.P. 1/2" = 100' V. 1/4" = 100' H.P. 1/2" = 100' V.

Sta 616+29.4 to 627+00. 1/4" = 100' H.P. 1/2" = 100' V. 1/4" = 100' H.P. 1/2" = 100' V. 1/4" = 100' H.P. 1/2" = 100' V.

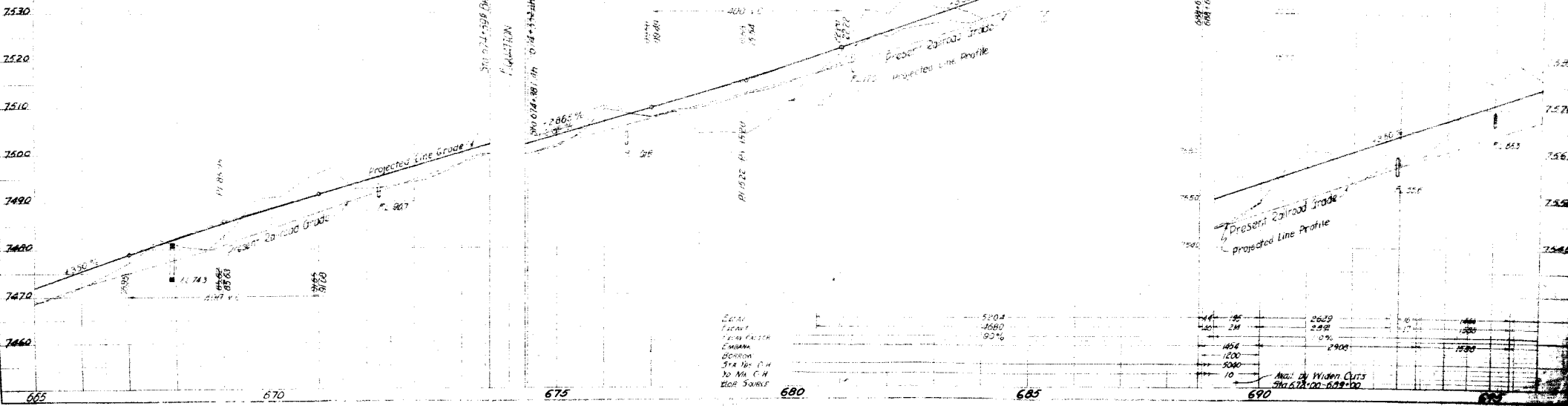
USWPH
WPS 4940
Revised 4/27/30 H.J.S.
Rev 10/25/36 H.J.S.
Rev 10/25/39 H.J.S.







BY: J. M. HARRIS
CHECKED: J. M. HARRIS
DATE: 10-10-54
JOB NO. 1000



DATE: 10-10-54
BY: J. M. HARRIS
CHECKED: J. M. HARRIS
DATE: 10-10-54
JOB NO. 1000

DATE: 10-10-54
BY: J. M. HARRIS
CHECKED: J. M. HARRIS
DATE: 10-10-54
JOB NO. 1000

NE 1/4 SW 1/4 Sec 21
T35 R72W

Sta 698+30 Reg'd 36x60 C.M.P. Cross Culv
& 30 Cu Yds Uncl Excav for Inlet

Sta 705+00-706+50 Reg'd Channel Change Lt
(Quantities included in Cross Sections)

Sta 706+75 Reg'd 24x72 C.M.P. Cross
Culv & 30 Cu Yds Uncl Excav
for Inlet

SW 1/4 NW 1/4 Sec 21
T35 R72W

Sta 715+12-715+50 Reg'd Triple 12x42 C.B.C.
Details on Sheets #19&20 & 1500 Cu Yds Uncl
Excav for Channel Inlet. Also Reg'd 60 Cu Yds
Embank for Roadway fill over Culv & 30 Cu Yds Uncl
Material & Remove Str.

Revised 4-27-50 HJS
Rev Index 5-25-50 HJS
Rev for C&G 1-27-50 HJS

STATE USWICH
COUNTY WPPSS 429(A1)
SHEET 46
NE 1/4 NW 1/4 Sec 21
T35 R72W

Sta 722+05-730+00 Reg'd Channel Change
Lt (Quantities included in Cross
Sections)

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 728+700

Sta 700+00 Reg'd 36x60 C.B.C. (Type B) Details
on Sheets #19&20 & 1500 Cu Yds Uncl
Excav for Channel Inlet. Also Reg'd 60 Cu Yds
Embank for Roadway fill over Culv & 30 Cu Yds Uncl
Material & Remove Str.

Sta 707+30 Reg'd 36x60 C.M.P. Cross
Culv & 30 Cu Yds Uncl
Excav for Inlet

FORCE ACCOUNT: NO FEDERAL AID FROM RR & R.R. DISTRICT
ON 1-1-51. Reg'd Move & Rebuild Waterway
& Pipe Use

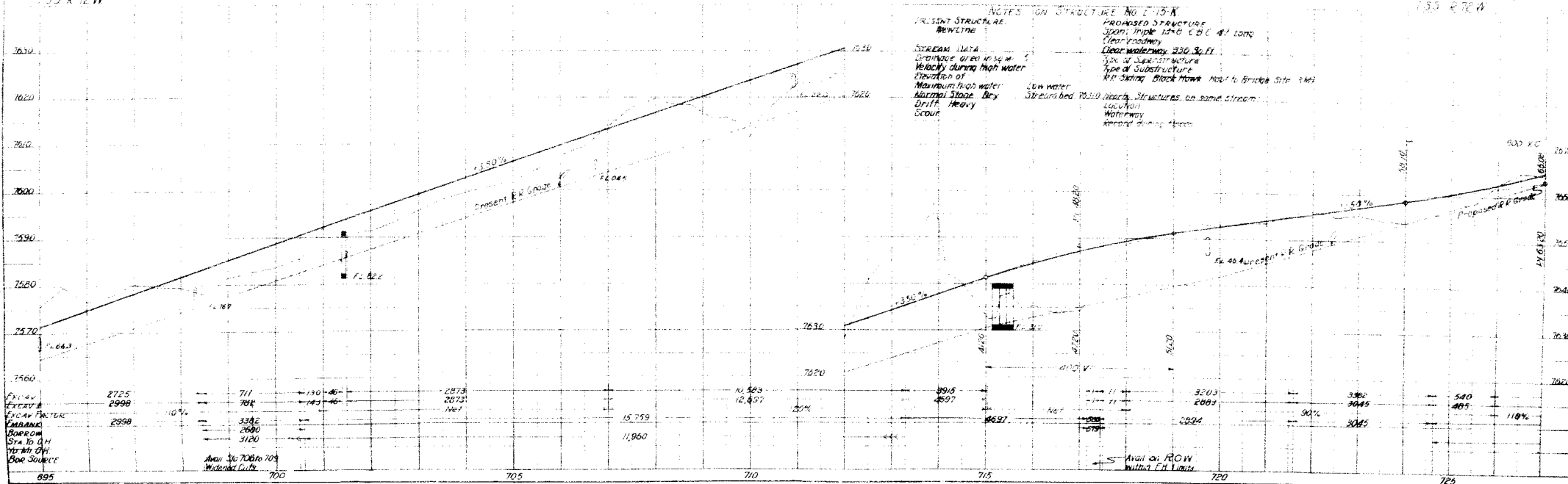
FORCE ACCOUNT: NO FEDERAL AID FROM RR & R.R. DISTRICT
ON 1-1-51. Reg'd Move & Rebuild Waterway
& Pipe Use

Sta 725+00 Reg'd 100 Loads Uncl Excav
for Roadway R.R.

Sta 725+00 Reg'd 36x60 C.M.P. Cross Culv
& 100 Cu Yds Uncl Excav for Inlet

NE 1/4 NW 1/4 Sec 21
T35 R72W

NOTES ON STRUCTURE NO. 2-15-A
PRESENT STRUCTURE
REWORKING
STREAM DATA
CHANNEL OPENING
HEAVY DURING HIGH WATER
ELEVATION OF
MAXIMUM HIGH WATER
NORMAL STAGE: SIX
FOOT HEAVY
SCOUR
LOW WATER
STREAM BED 10-12 FEET DEEP. STRUCTURES ON SAME STREAM
LOCATION
WATERWAY
KINDRED DURING THERE



NE 1/4 NE 1/4 Sec 20
T35 R72 W

REV. 2-21-30
REV. 1-1-35
REV. 1-1-35
REV. 1-1-35

USWPH
SHEET
43

NW 1/4 SE 1/4 Sec 17
T35 R72 W
Sta 734+10 Reqd. 24' x 12' C.M.P. Cross Culv & 10 Cu Yds. Uncl. Excav. for Inlet

Sta 731+00 Reqd. 24' x 62' C.M.P. Cross Culv & 40 Cu Yds. Uncl. Excav. for Inlet

Sta 737+00-738+50 Reqd. Channel Change (Quantities in Cross Sections)

Sta 737+95 Reqd. 24' x 66' C.M.P. Cross Culv & 30 Cu Yds. Uncl. Excav. for Inlet

Sta 738+70 Reqd. 24' x 92' C.M.P. Cross Culv & 30 Cu Yds. Uncl. Excav. for Inlet

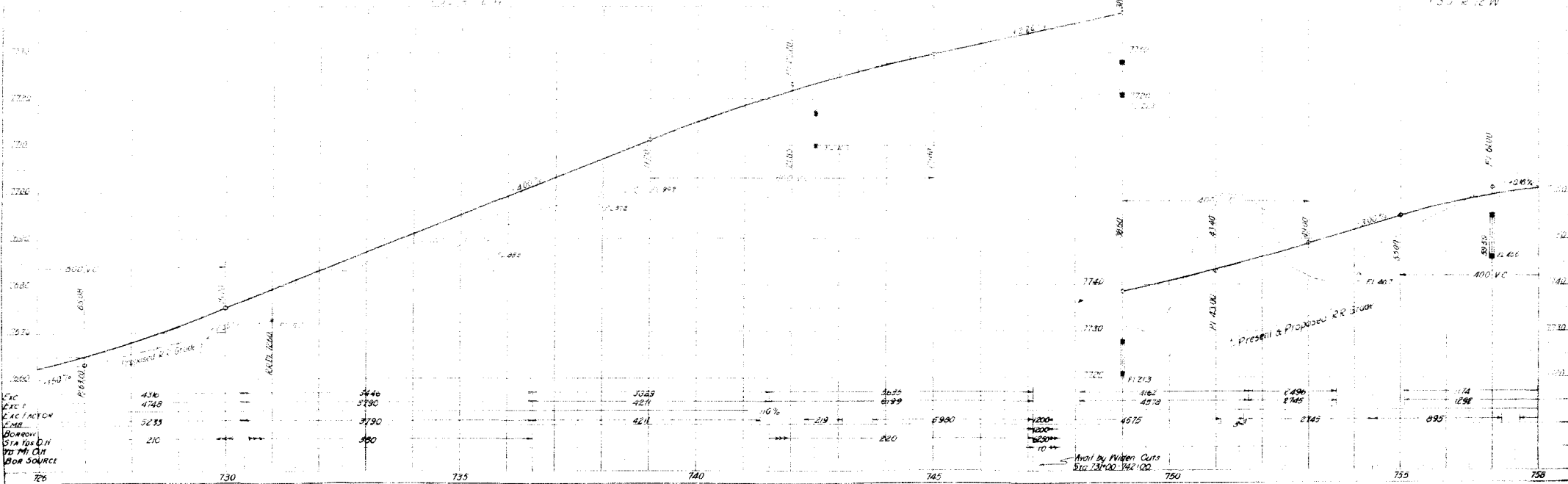
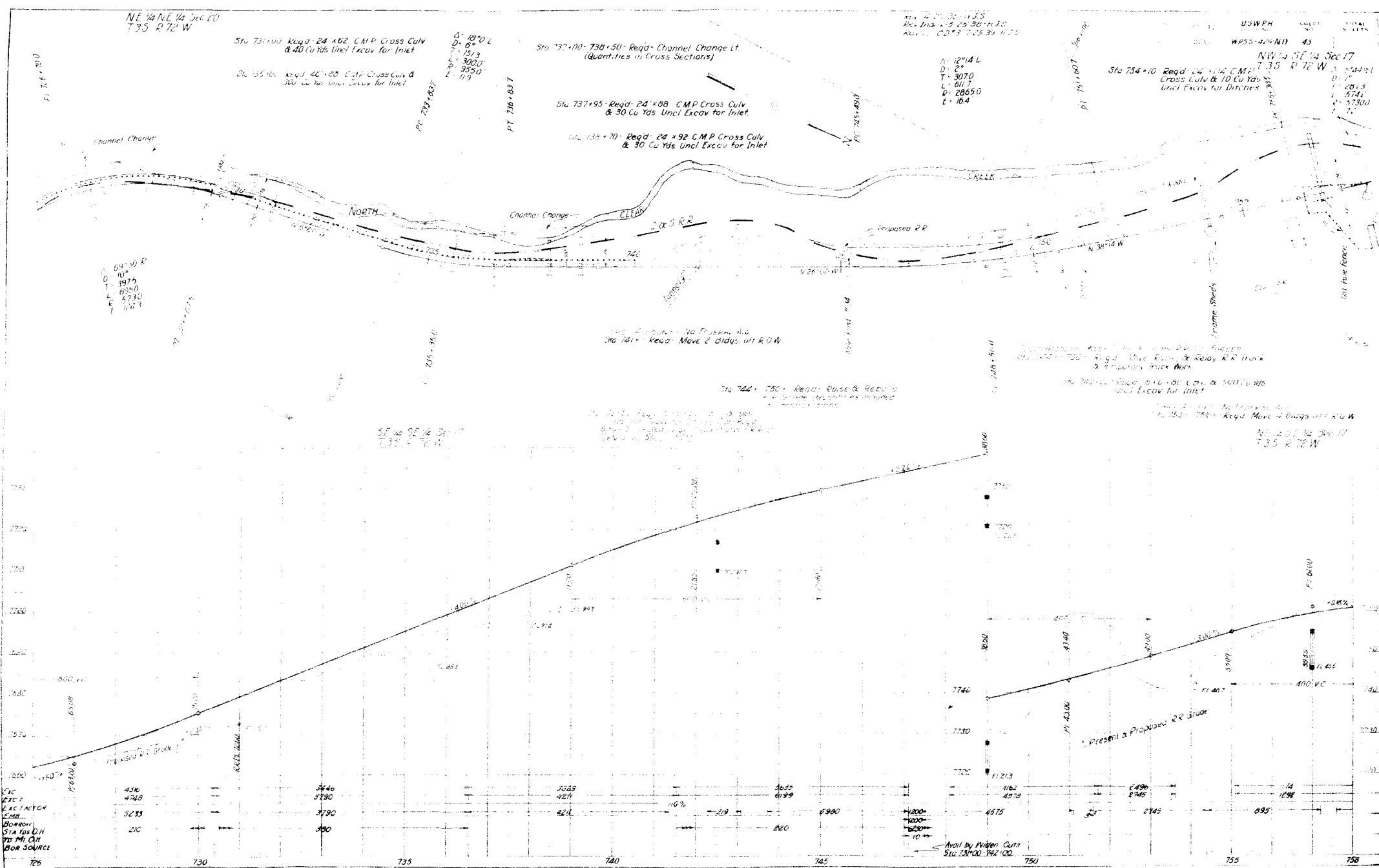
Sta 741+ Reqd. Move E. dikes, alt. R.O.W.

Sta 744+750 Reqd. Raise & Retain

Sta 749+ Reqd. 24' x 80' C.M.P. & 100 Cu Yds. Uncl. Excav. for Inlet

Sta 750+754 Reqd. Move E. dikes, alt. R.O.W.

NW 1/4 SE 1/4 Sec 17
T35 R72 W



SE 1/4 NW 1/4 Sec 17
T 35 R 72 W.

Sta 767+00-771+00: Req'd: 500 Cu Yds
Uncl. Excav for Channel
Change Lt.

Sta 776 +90 Reg'd - 48" x 64" CMP Cross Culv
 & 50 Cu Yds Incl Excav for Inlet
 Also Reg'd Remove 1 Structure

Revised 4-27-88 HJS
Rev Index 6-29-88 HJS
Rev Index 7-29-88 HJS

A = $5^{\circ}44\frac{1}{2}'$
D = 1°
7 = $207.3'$
L = $574.2'$
R = $5730.0'$

$p_1 = 762 + 12.7 \text{ Bar}$
 $p_2 = 762 + 02.7 \text{ Atm.}$

11/28/84 440

$\Delta = 4^{\circ}35'2$
 $D = 10$
 $T = 229.3$
 $L = 458.3$
 $R = 5730.0$

44. 773, 91.6

$\Delta = 33^{\circ}30'$
 $D = 8^{\circ}$
 $7 = 215.6'$
 $L = 418.8'$
 $R = 716.3'$

778 + 102 Hk.
778 + 102 Hk.

1998

1- 1937 K
 2- 10
 3- 99
 4- 196
 5- 573

4-14-27
5-5
1-1006
2-1806
3-703

SA 75-2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 272

10. 100% 1500 sq ft Remove All Fences

Force Account Work To Be Done By R.P. Co. Forces
Sho 359 - 802 - Reg'd. Move House & Reloc. R.P. Truck
& Temporary Truck Work

[illegible]

Sta 763 - - Reqd. of Co. 115 Embank
to 1st Shift

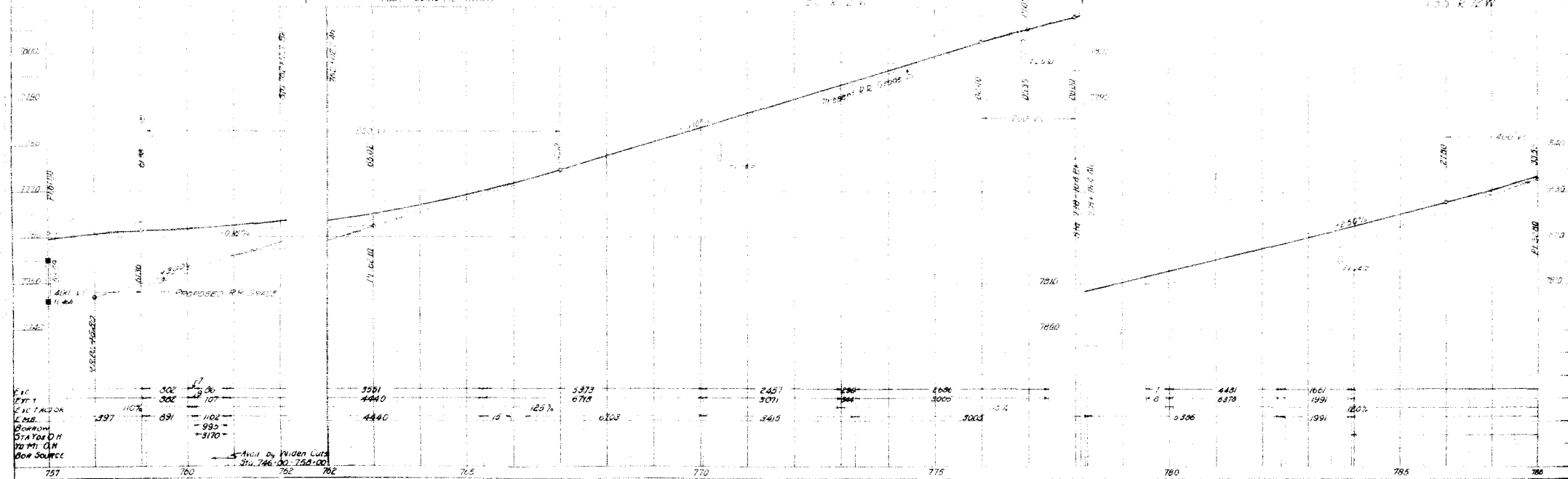
on 12-1-88 ROAD 4140 ft. Inside House in yard
under 2 ft. of topsoil. Sheds 72 ft.
from house. 100 ft. from street. 100 ft. from
first protection. 6 ft. 50 ft. Gray Rubble
Slab Pavement (12" thick)

[illegible]

Chrysomelidae

Sept 27 - 284 - 300 - 1000
1000 - 1000

NE 1/4 NW 1/4 Sec 17
T35 R72W



VI 414 2 Sep 17
735 RTZW

Sta 789+05 Reg'd 24'x72" C.M.P. Cross Culv
& 30 Cu Yds Uncl. Excav for Inlet

Sta 794+40 Reg'd 24'x68" Cross
Culv & 40 Cu Yds Uncl. Excav
for Inlet

Sta 803+00 Reg'd 36'x90" C.M.P. Cross Culv
& 700 Cu Yds Uncl. Excav for Ditches

Sta 804+00 Reg'd 48'x90" C.M.P. Cross Culv
& 900 Cu Yds Uncl. Excav for Ditches

Sta 804+00 Reg'd Raise & Rebuild R.R. Grade
(Quantities included in Cross Sections)

FORCE ACCOUNT WORK TO BE DONE BY R.R. CO. FORCES.
Sta 804+00 Reg'd Move, Raise & Relay R.R. Track
& Temporary Track Work

Sta 804+25 Reg'd 3000 Cu Yds Uncl. Excav
for Channel Change Lt.

Sta 799+00 Reg'd Channel Change Lt.
(Quantities included in Cross Sections)

Sta 794+40 Reg'd 36'x82" C.M.P. Cross Culv
& 40 Cu Yds Uncl. Excav for Inlet

USWPH
SHEET NO. 43
TOTAL SHEETS
Revised 4-27-39 H.J.S.
Rev. Inks 5-25-38 H.J.S.
Rev. for C.D. 7-25-39 H.J.S.
Section 2133a Feb 10-11-39 W.W.H.

Sta 804+25 Reg'd 8'x6'60" (B.C. Type 8-11)
Details on Sheets 40 & 41 1000 Cu Yds
Uncl. Excav for Channel Impvt

CONNECTION FROM STA 804+25 TO STA 804+40
BROW WISS 10-10-39
10-16-39
10-22-39
10-29-39
11-5-39
11-12-39
11-19-39
11-26-39
12-3-39
12-10-39
12-17-39
12-24-39
1-7-40
1-14-40
1-21-40
1-28-40
2-4-40
2-11-40
2-18-40
2-25-40
3-4-40
3-11-40
3-18-40
3-25-40
4-1-40
4-8-40
4-15-40
4-22-40
4-29-40
5-6-40
5-13-40
5-20-40
5-27-40
6-3-40
6-10-40
6-17-40
6-24-40
7-1-40
7-8-40
7-15-40
7-22-40
7-29-40
8-5-40
8-12-40
8-19-40
8-26-40
9-2-40
9-9-40
9-16-40
9-23-40
9-30-40
10-7-40
10-14-40
10-21-40
10-28-40
11-4-40
11-11-40
11-18-40
11-25-40
12-2-40
12-9-40
12-16-40
12-23-40
12-30-40
1-6-41
1-13-41
1-20-41
1-27-41
2-3-41
2-10-41
2-17-41
2-24-41
3-2-41
3-9-41
3-16-41
3-23-41
3-30-41
4-6-41
4-13-41
4-20-41
4-27-41
5-4-41
5-11-41
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