

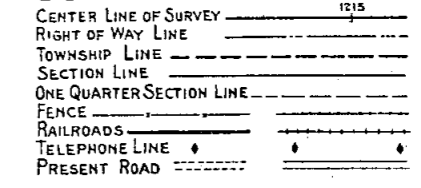
# COLORADO STATE HIGHWAY DEPARTMENT

## PLAN AND PROFILE OF PROPOSED U. S. P. W. PROJECT NO. N.R.H. 79 G STATE HIGHWAY NO. 4 ELBERT AND LINCOLN COUNTIES

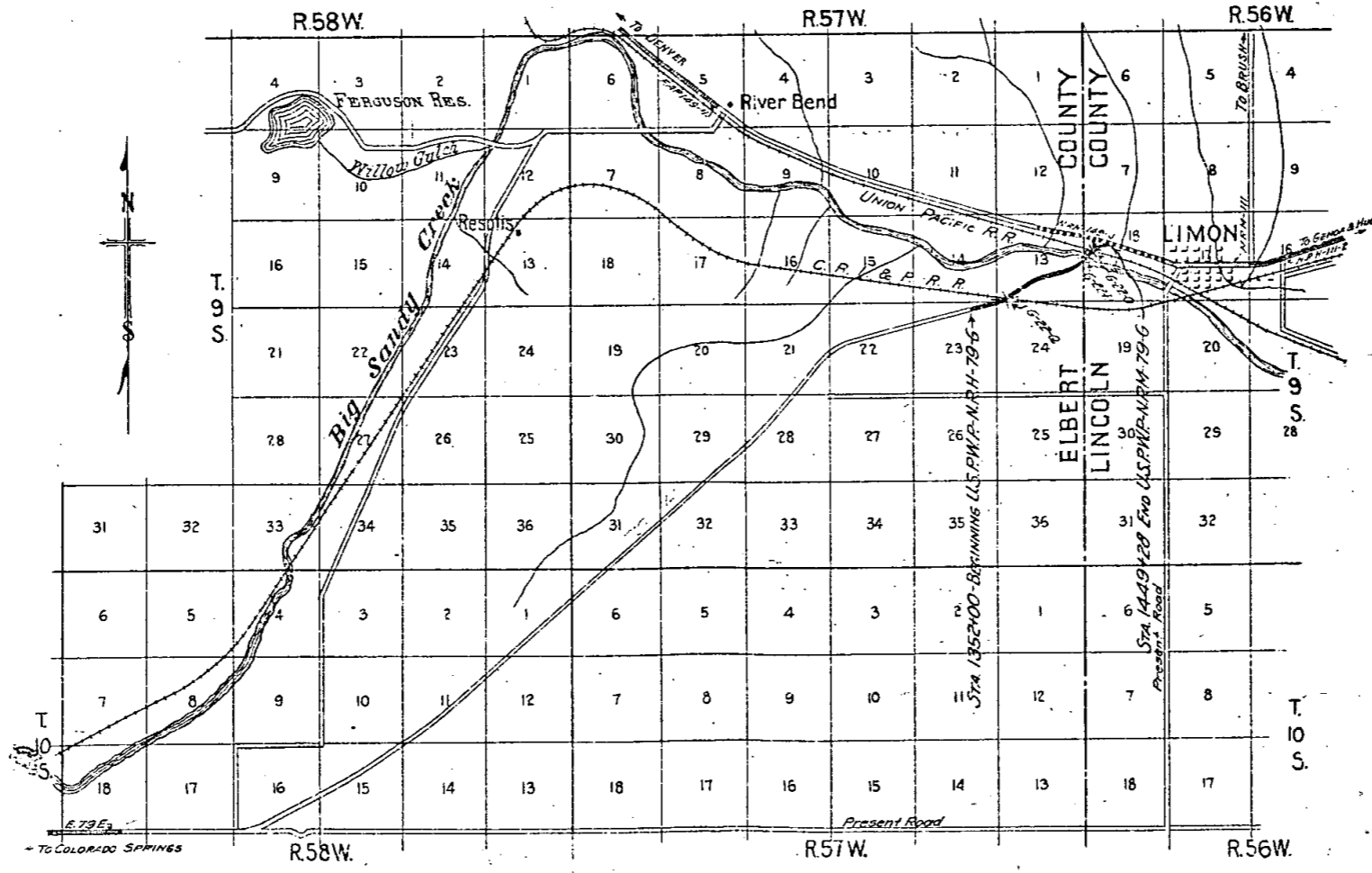
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### CONVENTIONAL SIGNS



**SCALES**  
 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 } 10,321.0 FEET = 1.954 MILES  
 NET LENGTH OF PROJECT }



Scale 1 inch = 1 Mile

RECOMMENDED FOR APPROVAL *5/15/34*  
*J. J. [Signature]*  
 ASSISTANT ENGINEER

APPROVED  
*Chas. D. [Signature]*  
 STATE HIGHWAY ENGINEER

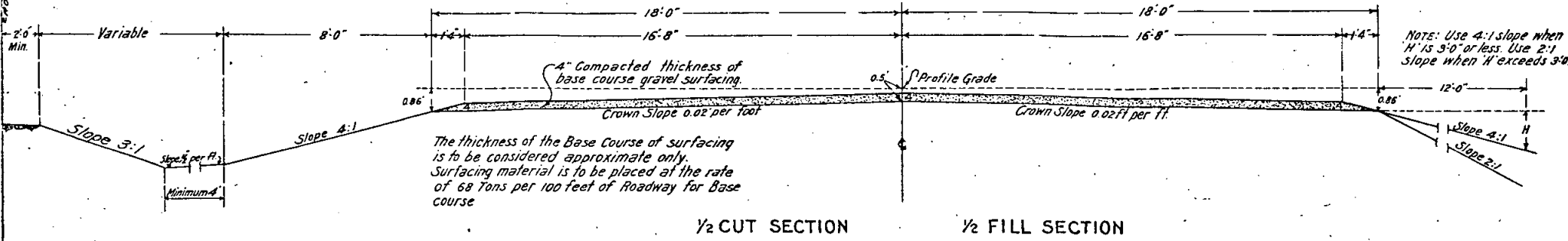
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# TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

## TYPICAL CROSS SECTION



1/2 CUT SECTION      1/2 FILL SECTION

### GENERAL NOTES

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted January 1, 1930.

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

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

All roadway excavations required to construct this Project are to be obtained as indicated on the plans. Quantities involved beyond the limits of the ditch as shown on the Typical Section, either noted on profile as "Borrow" or on tabulation 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. Slope stakes beyond the limits of the Typical Section, are subject to change by the Engineer to fit embankment requirements actually met in construction.

All poles encroaching on construction are to be moved by the owners.

All corrugated metal cross culverts are to be provided with one headwall, on the inlet end, unless otherwise noted on the plans.

Clearing and Grubbing on this project, will be required for the full width of the right of way, and shall include clearing and grubbing of all borrow pits, and the channel change on the Big Sandy Creek. The contractor will be required to place all trees removed in clearing and grubbing the Big Sandy Creek channel change in the base of dikes damming old channel, tops of trees extending downstream, and cover trees with the excavated material from the channel change to construct dikes. This work shall be included in the contract Lump Sum prices for "Clearing and Grubbing" on this project.

Power equipment may be used on this project, except as limited by the special provisions.

The contractor will be required to maintain traffic over the present travelled roadway, where it crosses the Y on this project, until the roadway is opened for traffic on N.R.H. 149-J.

The 2 Railroad Overhead Crossings and the Big Sandy Creek Bridge are to be constructed as Construction Division No. 1, the remainder of the Project is to be constructed as Construction Division No. 2.

### SUMMARY OF APPROXIMATE QUANTITIES

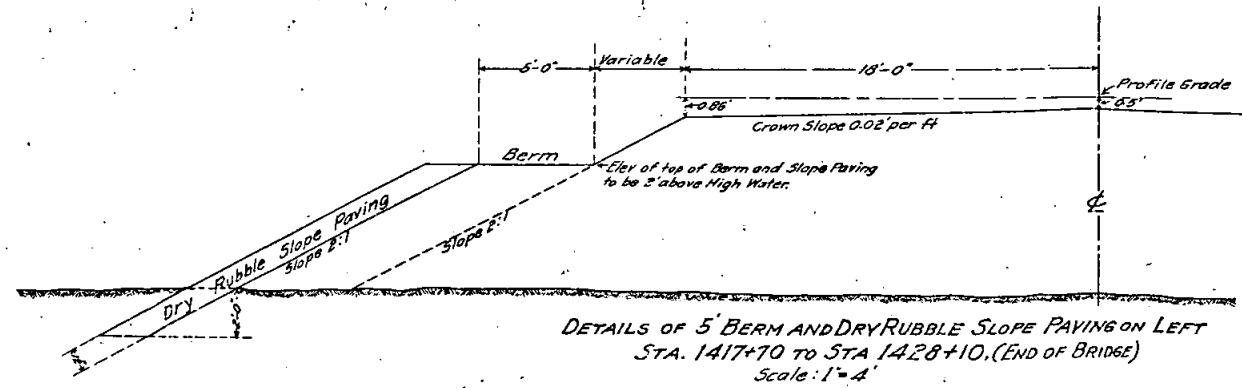
No.	ITEM	UNIT	CONSTRUCTION DIVISION No. 2		CONST. DIVISION No. 1	
			ROADWAY	Q. LINE APPR. TOTALS	R.R. OVERPASS	BRIDGE
10a	Clearing & Grubbing Roadway Sect.	Lin. Ft.				
10b	Removing Snow Fence	Lin. Ft.	233		233	
11a	Fence	Lin. Ft.	1507		1507	
12a	Unclassified Excavation	Cu. Yd.	169,171.0	6048.1	175,219.1	
13c	Dry Rock Excavation (Str.)	"			16,770	16,770
14a	" Corn "	"	7918		7918	
14b	" Corn "	"			365.8	485.5
14c	Wet Rock "	"			758.1	350.3
14d	" Corn "	"			1305.1	1211.6
14e	Station Yard Overhaul	Sta. Yd.	1,039,738	27,435	1,127,173	
18b	Yard-Mile Overhaul	Yd. Mi.	3682		3682	
30x	Gravel or Crushed Rock Surfacing	Ton	62382	43415	667235	
42a	Untreated Bridge Timber	N.R.B.M.			0.36	0.36
46a	Class "A" Concrete	Cu. Yd.	151.64		319.8	0.36
46b	" " " " " " " "	"	6.6		9.35	388
47	Reinforcing Steel	Lb.	13,156		13,156	86,290
48	Structural Steel	"				113,000
53b	18" Corr. Metal Culvert Pipe	Lin. Ft.	150		150	55,930
53c	24" " " " " " "	"	294		294	255,220
65	Dry Rubble Slope Paving (1 ft. thick)	Sq. Yd.	16,238		16,238	25,520
72	Wire Cable Guard Fence	Lin. Ft.	7230	992	8222	630,958
75x	Galv. Barbed Wire Fence (Met. Posts)	Lin. Ft.	18,957	546	19,503	
75y	Gates in "	Each	6		6	
78	Project Marker	"	2	1	3	
79	Right of Way Marker	"	41	2	43	
81	Bronze Name Plates	"			1	3
82	Sheet Copper	Lb.			390	915
89	Asbestos Wood Blast Protect Board	Sq. Ft.			310	385
89a	Drain Pipe with Flange (3" x 4")	Each			10	150
89b	" " " " " " (3" x 6")	"			16	244
56b	The following item is to be bid on as alternate for item 53b - 18" Corr. Metal Culvert Pipe	Lin. Ft.			10	16
	18" x 14" Interlocking Conc. Culvert	Lin. Ft.			16	16
MATERIAL TO BE FURNISHED AND WORK TO BE DONE BY RAILROAD FORCES						
	Guard Rail	Lin. Ft.			248	320
					568	

\* Lump Sum

### LIST OF STRUCTURES

LOCATION	DESCRIPTION	REMOVE SNOW FENCE	UNCL. EXCAV.	EMBANK.	STRUCTURAL # EXCAVATION CU. YDS.	CORR. METAL CULV. PIPE		CLASS A CONC.	CLASS B CONC.	REIN. STEEL	W. CAB. GUARD FENCE	DRY RUBBLE SL. PAV.	MISCELLANEOUS
						18"	24"						
1352+00	Project Marker												1 - Project Marker
1357+00	Cross Culvert					2	70			1.65			
1369+65	Side Drain & Road Appr.					11.6	30						
1373+00	57' x 44" Conc. Box Culvert & Ditches			28.3		119.4		77.74		6736			
1370+02E-1379+00E	Wire Cable Guard Fence Rt. & Lt.												1796
1379+02E-1381+30E	Railroad Overpass												
1381+35E-1389+10SE	Wire Cable Guard Fence Rt. & Lt.												1540
1382+45	Remove Snow Fence			233									
1387+00	Cross Culvert & Ditches					5.7	88			1.65			
1400+00	R-Road Approach Side Drains R&L					8.7	60						
1402+00	Cross Culvert & Ditches					2	52			1.65			
1412+50	57' x 40" Conc. Box Culvert & Ditches			22.1		109.7		73.9		6420			
1427+30-1428+10	Dry Rubble Slope Paving Rt.					44.9							148
1417+70-1428+10	Dry Rubble Slope Paving Lt.					424.9							1350.8
1428+13-1430+55	Bridges (4 Spans @ 60') & Chan. Change (Const. Div. No. 1)												
1419+28E-1428+10E	Wire Cable Guard Fence Rt.												882
1426+55E-1428+10E	" " " " " " Lt.												114
1430+15E-1435+99E	" " " " " " R. & Lt.												1084
1436+01E-1437+32E	Railroad Overpass												
1437+25E-1449+30E	Wire Cable Guard Fence Rt.												1122
1440+20-1446+50	" " " " " " Lt.												692
1443+00	Cross Culvert & Ditches					2.4	84			1.65			
1449+28	Project Marker												1 - Project Marker
1427+30-1428+10	Dry Rubble Slope Paving Rt.					44.9							148
1430+55-1430+56	" " " " " " R. & Lt.					408							125
1446+60	Cross Culvert					19.7	60						
0+40E-6+34A	Wire Cable Guard Fence Lt.												562
2+00-6+30	" " " " " " Rt.												430
7+27	Project Marker												1 - Project Marker
TOTALS CONSTRUCTION DIVISION NO. 2		233	48.4			791.8	150	294	151.64	6.60	13156	8222	1623.8

\* Structural Excavation is estimated to be 80% Common and 20% Rock, each of which is estimated to be 80% Dry and 20% Wet.



NOTE: - Dry Rubble Slope Paving, as shown above, is to be placed on roadway fill slopes at ends of Bridge as follows: on right from Sta. 1427+60 to 1428+10, and on right and left from Sta. 1430+65 to 1430+85. No berm required.

### R.O.W. MARKERS

STATION	SIDE	No.
1352+00	R & L	2
1360+00	R & L	2
1368+18	R	1
1368+33	L	1
1374+40	R	1
1375+56	R	1
1380+56	R	1
1380+84	L	1
1380+78	L	1
1381+54	R	1
1382+37	R	1
1396+69	R	1
1397+33	R	1
1403+00	R & L	4
1412+18	R & L	4
1412+52	R & L	4
1426+61	R	1
1413+04	R & L	2
1431+50	R & L	2
1427+90	R & L	2
1432+33	R	1
1434+14	L	1
1435+25	R	1
1440+82	R	1
1363+65	R	1
1366+84	R	1
1430+00	R	1
1437+19	R	1
1437+05	R	1
1129	L	1
2+15	L	1
TOTALS		43

### FENCING REQUIREMENTS

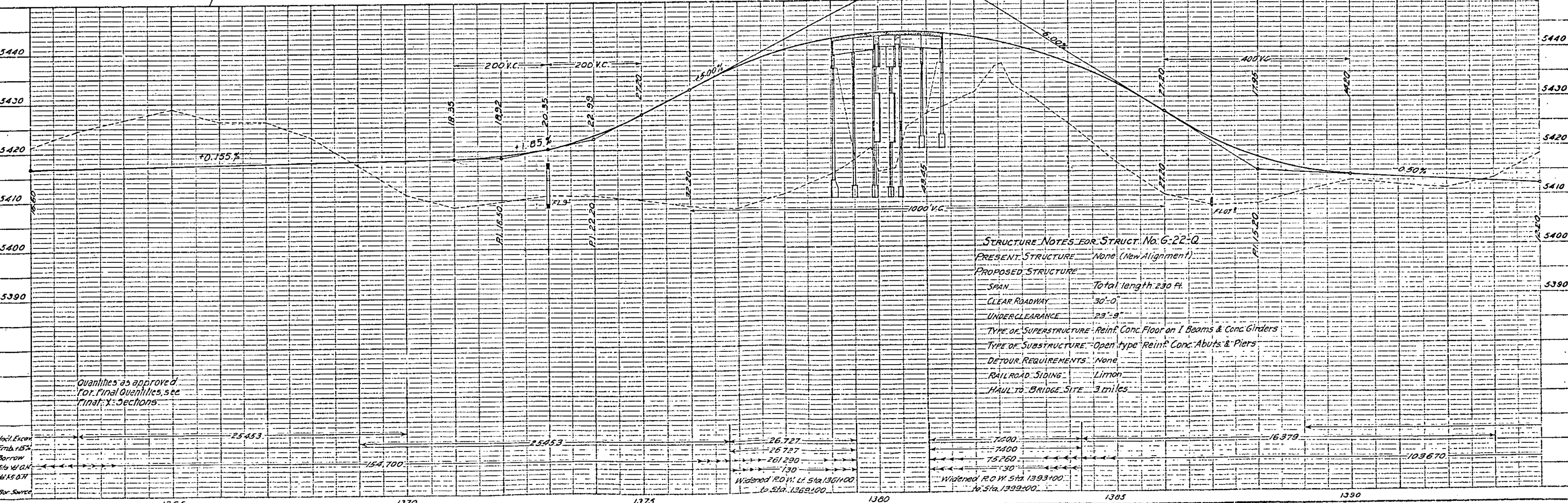
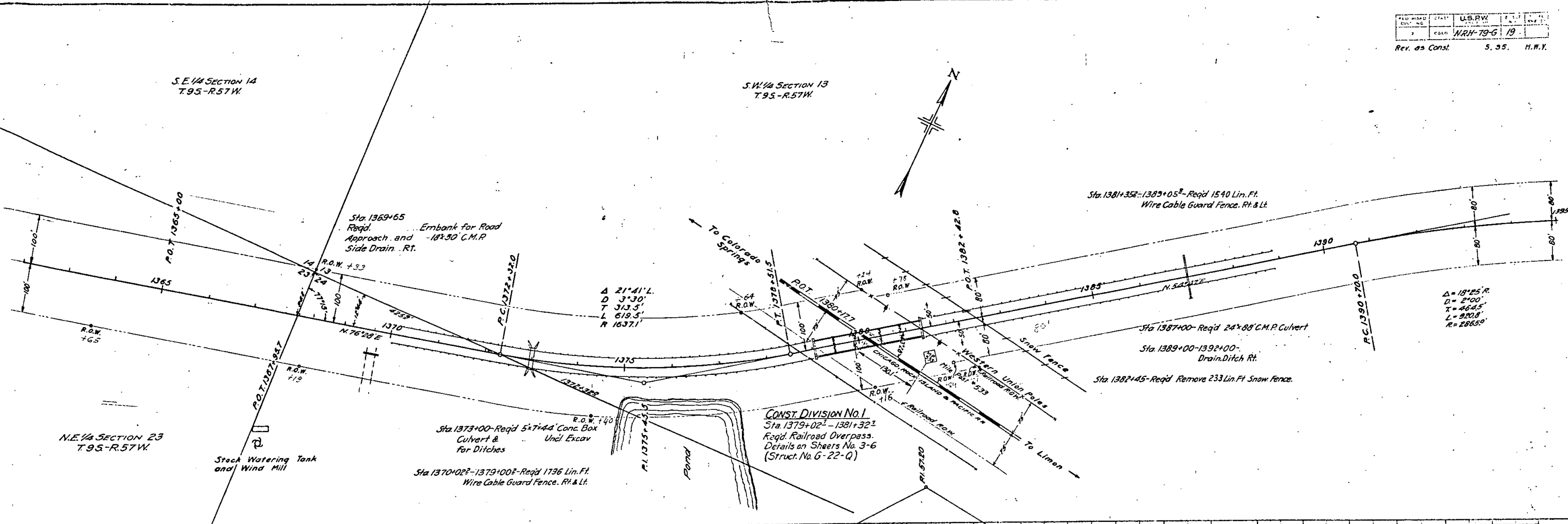
LOCATION	SIDE	REMOVE FENCE	BUILD FENCE		GATES	
			Barb Wire	Combin.	B. Wire	Dr way
1352+00-1373+00	R & L		4533			
1373+61-1379+35	LBR		1148			
1379+35-1412+18	RBL		6635			
1369+65	R & L				2	
1379+72	X	292				
1412+18-1427+73	R & L		3251			
1381+30	X	233				
1428+00-1436+83	R		476			
1436+00-1450+98	R & L		1829			
1400+00	R & L				2	
1417+00	R & L				2	
1429+30	X	264				
1434+68	X	231				
1439+40	X	231				
1450+98	R		25			
1440+20	X	236				
Q Line Approach						
1434 8+11.5	L		521			
8+11.5	L		25			
TOTALS		1507	15503		6	



S.E. 1/4 SECTION 14  
T.9S-R.57W

S.W. 1/4 SECTION 13  
T.9S-R.57W

N.E. 1/4 SECTION 23  
T.9S-R.57W



**STRUCTURE NOTES FOR STRUCT. No. G-22-Q**  
 PRESENT STRUCTURE None (New Alignment)  
 PROPOSED STRUCTURE  
 SPAN Total length 230 ft.  
 CLEAR ROADWAY 30'-0"  
 UNDERCLEARANCE 23'-9"  
 TYPE OF SUPERSTRUCTURE Rein. Conc. Floor on I Beams & Conc. Girders  
 TYPE OF SUBSTRUCTURE Open type Rein. Conc. Abuts & Piers  
 DETOUR REQUIREMENTS None  
 RAILROAD SIDING Limon  
 HAULT TO BRIDGE SITE 3 miles

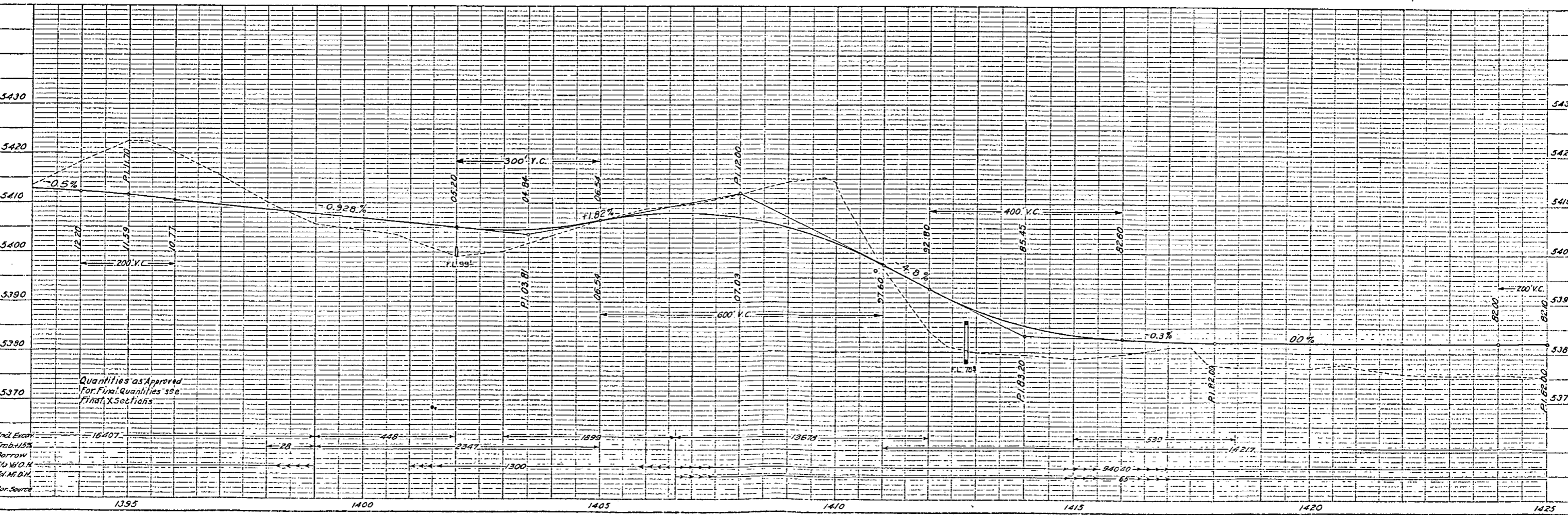
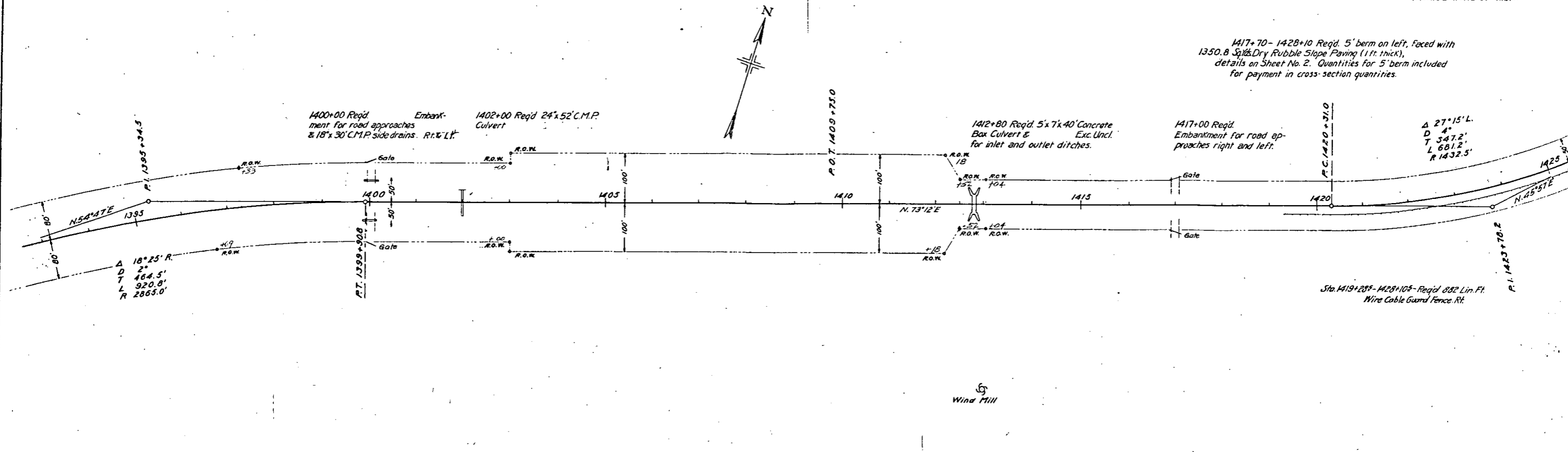
Quantities as approved for Final Quantities, see Final X-Sections

Uncl. Excav.	25,453	25,453	26,727	7,400	16,379
Emb. 15'			26,727	7,400	
Borrow			26,120	7,520	
5% W/OH	154,700		130		103,670
W/OH					
For Source			Widened R.O.W. Lt. Sta. 1361+00 to Sta. 1369+00	Widened R.O.W. Sta. 1393+00 to Sta. 1399+00	

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1417+70-1428+10 Reg'd. 5' berm on left, faced with 1350.8 Sq. Ft. Dry Rubble Slope Paving (1 ft. thick), details on Sheet No. 2. Quantities for 5' berm included for payment in cross-section quantities.



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