

TITLE SHEET

CONVENTIONAL SIGNS

CENTER LINE	PLAN SHEET	TITLE SHEET
RIGHT OF WAY LINE	ROW MARKER	
COUNTY LINE		
TOWNSHIP OR RANGE LINE		
LAND LINES	SECTION LINE	1/4 SECTION LINE
RAILROAD	TITLE SHEET	PLAN SHEET
BARBED WIRE FENCE		
COMBINATION WIRE FENCE		
SNOW FENCE		
TELEPHONE & TELEGRAPH LINES		
POWER LINE		
DETOUR		
PRESENT ROAD (Plan Sheets)		

COLORADO DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. S0001 (27) STATE HIGHWAY NO 51 (385) IN CHEYENNE COUNTY

RIGHT OF WAY

SCALES OF ORIGINAL DRAWINGS

ON PLAN	1 IN	100 FT
ON PROFILE	1 IN	100 FT HORIZONTAL
	1 IN	10 FT VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT
NET LENGTH OF PROJECT

FEDERAL ROAD REGION NO	DIVISION	PROJ NO	SHEET NO	TOTAL SHEETS
9	COLORADO	S0001 (27)	1	

RIGHT OF WAY
Cheyenne Wells - South

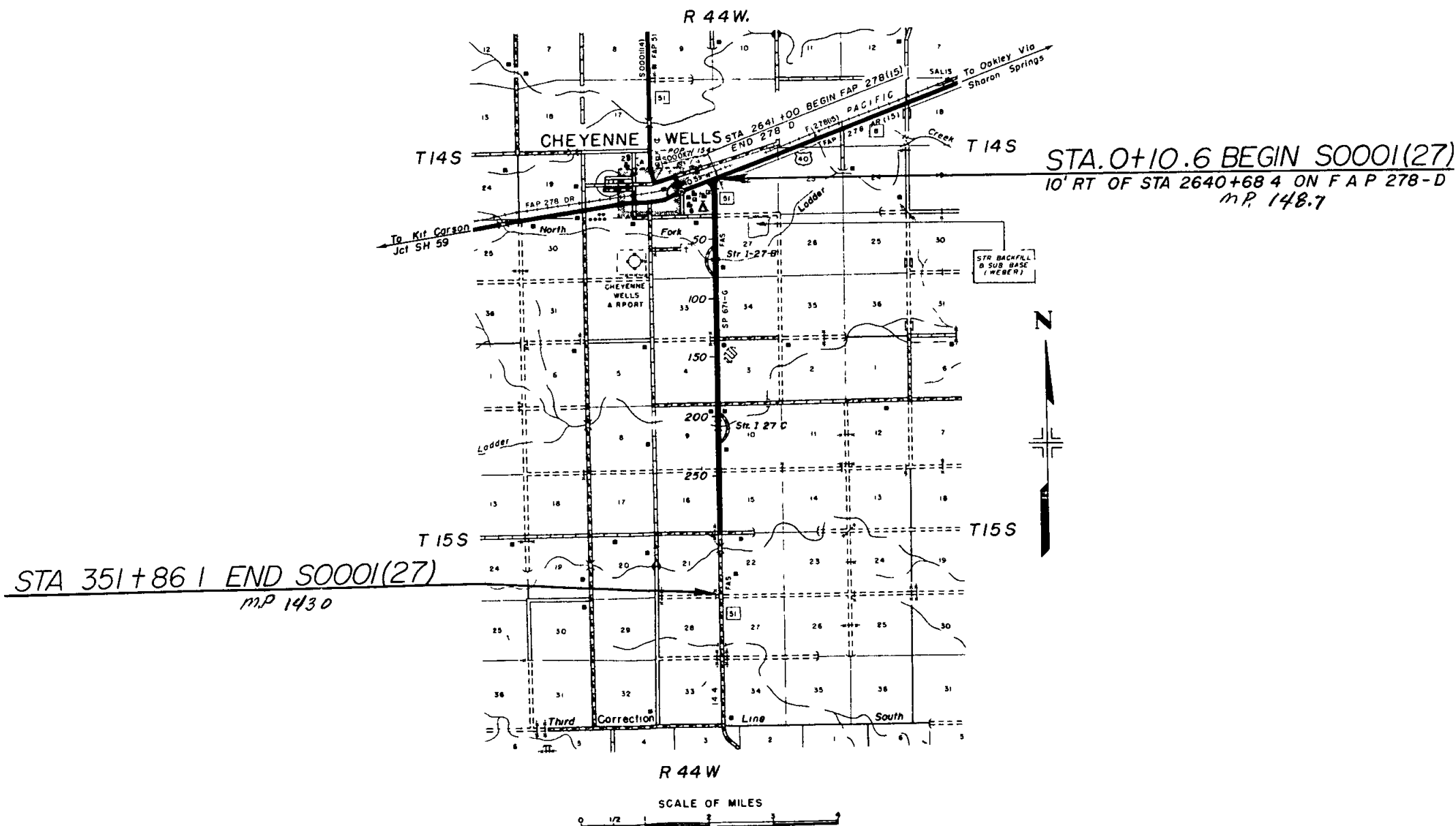
CS 46-0091-03

REVISIONS

NO	DATE	BY	REVISION
5	3	60	Cha Index & End Sta
			FCM

INDEX OF SHEETS

SHEET NO	1	Title Sheet
	2	Tabulation of Properties
3-15		Plan and Profiles Sheets Showing Right of Way



FEDERAL ROAD DIVISION NO	DISTRICT	PROJ NO	SHEET NO	TOTAL SHEETS
9	COLORADO	S 0001(27)	2	

RIGHT OF WAY
Cheyenne Wells - South

R O W TABULATION OF PROPERTIES IN CHEYENNE COUNTY S H No 51 PROJ S 0001(27)

PARCEL NO	OWNER	ADDRESS	LOCATION	AREA IN ACRES		REMARKS	REVISIONS			
				PARCEL	TO BE ACQUIRED		5 3 60	6 23 60	Cho Eas No's B Added	TE 9 BIOFCM
			T 14 S, R 44 W							
1	Cecile A Byerley	1085 Byerley, San Jose, Calif	N W 1/4 Sec 22	0 124	0 124					1
2	Cecile A Byerley	1085 Byerley, San Jose, Calif	S W 1/4 Sec 22	0 476	0 476					2
3	Mary V Bartholomew Earl E Bartholomew William A Bartholomew Betlie O Deemer	Great Bend, Kansas	S E 1/4 Sec 21	0 499	0 499					3
4	Cheyenne Wells Elevator Corporation A Corporation	Cheyenne Wells, Colorado	N E 1/4 Sec 28	0 601	0 601					4
TE-1	Cheyenne Wells Elevator Corporation A Corporation	Cheyenne Wells, Colorado	S E 1/4 Sec 28	1 033	1 033	Temporary Easement				TE-1
5	Edward J Weber Betty Jane Weber	Cheyenne Wells, Colorado	N W 1/4 Sec 27	0 600	0 600					5
6	John B Pfeifer Bertha Pfeifer	Cheyenne Wells, Colorado	S W 1/4 Sec 34	0 971	0 971					6
6-A	Julius Ast	Mt Hope, Kansas	N W 1/4 Sec 34	0 407	0 407					6-A
7	Lucyle B Day	1707 Ave A, Dodge City, Kansas	S E 1/4 Sec 33	0 971	0 971					7
TE-2	Lucyle B Day	1707 Ave A, Dodge City, Kansas	S E 1/4 Sec 33	1 299	1 299	Temporary Easement				TE-2
7-A	Lucyle K Dennis	Box 364, Dodge City, Kansas	N E 1/4 Sec 33	0 407	0 407					7-A
			T 15 S, R 44 W							
8	Ben Mahlberg Betty Mahlberg	Cheyenne Wells, Colorado	S E 1/4 Sec 9	2 212	2 212					8
TE 9	John W Baughman Farm Co	Liberal Kansas	N E 1/4 Sec 21	1 983	1 983	Temporary Easement				TE 9
10 Rev	Lawrence Plummer (Estate)	Cheyenne Wells, Colorado	S E 1/4 Sec 21	0 665	0 665					10
TE-3	Leo Mahlberg Pearl Mahlberg	Cheyenne Wells, Colorado	N E 1/4 Sec 9	2 893	2 893	Temporary Easement				TE-3
TE-4	Ethel R Quinn	Cheyenne Wells, Colorado	N W 1/4 Sec 10	2 020	2 020	Temporary Easement				TE-4

FE. ROAD REC. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
S	CULO	5 0001 (27)	5	

RIGHT OF WAY Cheyenne Wells - South

NOTE

Alignment and Grades as shown are subject to modification during construction after approval by the Denver Office

Soil data shown on the plans is obtained from best available testing laboratory information. This information is shown for the convenience of the Contractor and the Department does not guarantee the accuracy of these tests. If materials not conforming to the data on plans are encountered during construction, the grading plan shown on plans will be modified where necessary to secure dense, stable embankments

STA 0+106 BEGIN S 0001 27 =
10' RT STA 2640+68.4 ON FAP 278-D

B.M. No A-90
USC & GS 41' Lt Sta 0+95
Elev 4249.63

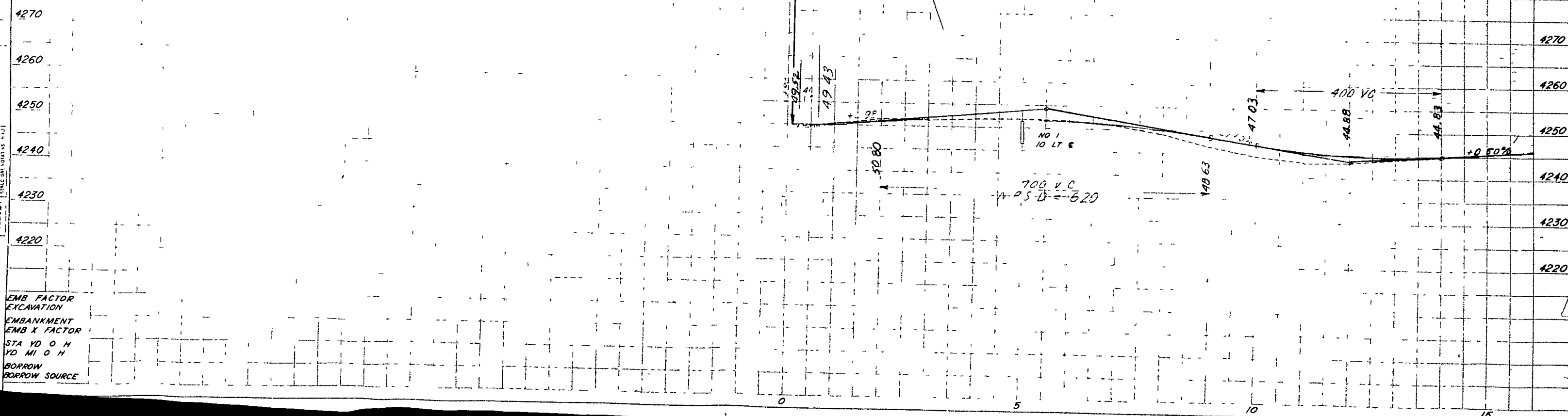
B.M. No 1
H & G 40' Lt Sta 10+00
Elev 4243.10

E 1/2 of SE 1/4 Sec 21
T 14 S, R 44 W
1/2 Mary V Bartholomew
1/6 Earl E Bartholomew
1/6 William A Bartholomew
1/6 Bettie O Deemer
Great Bend, Kansas

Part of Tract No 8
Aileen F Yount
Cecil C Yount
Cheyenne Wells, Colo
Except Tract of Land
to Phillips Petroleum Co

REVISIONS

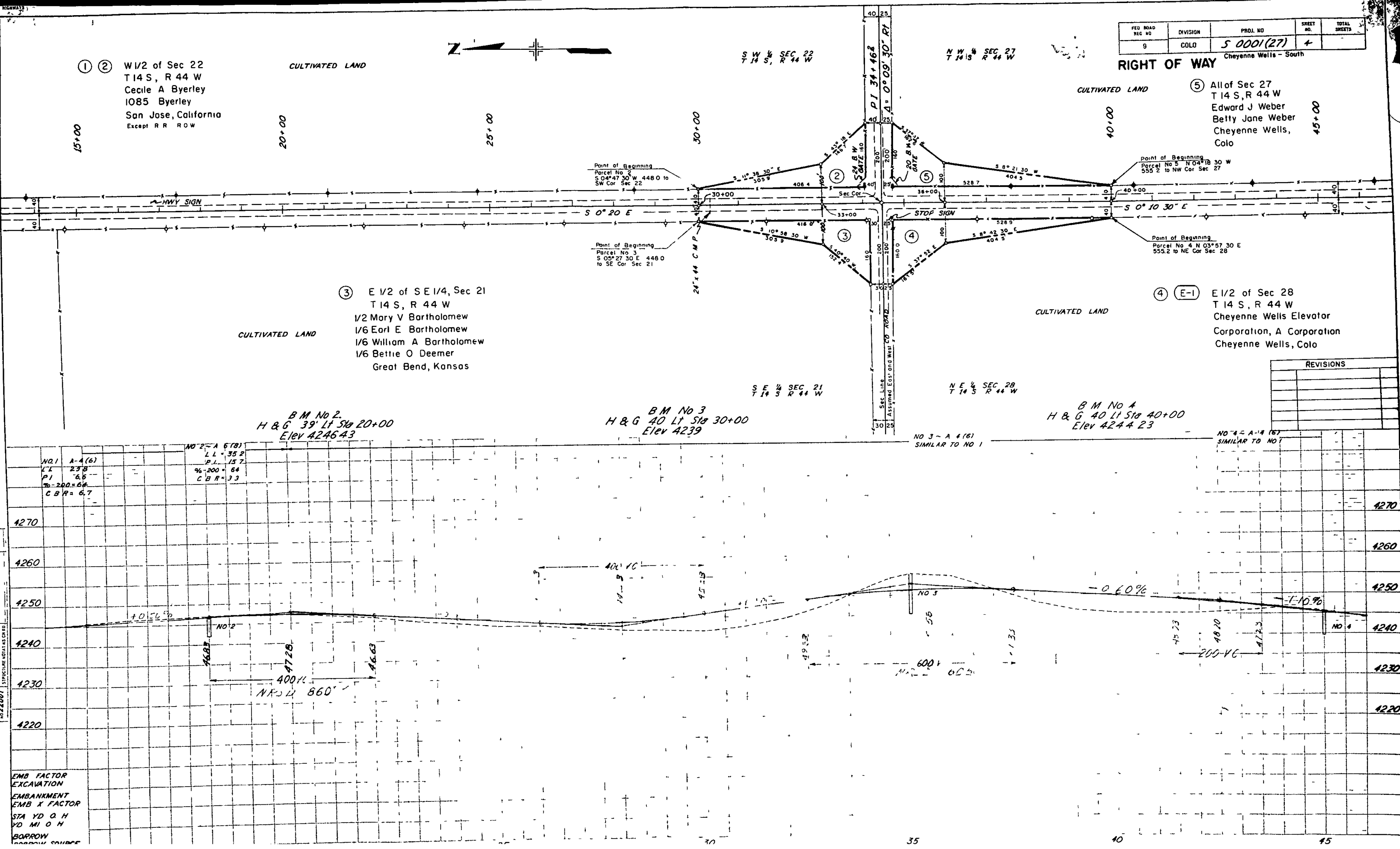
No. 1 - A-4 (6)
LL = 258
PI = 66
% = 200 64
CBR = 67



EMB FACTOR
EXCAVATION
EMBANKMENT
EMB X FACTOR
STA YD O H
YD MI O H
BORROW
BORROW SOURCE

DATE	
BY	
SUBMITTED	
PLANNED	
NOTE BOOK	
NO. 22000	

DATE	
BY	
SUBMITTED	
PLANNED	
NOTE BOOK	
NO. 22001	



FED. ROAD NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0001(27)	4	

Cheyenne Wells - South

RIGHT OF WAY

① ② W 1/2 of Sec 22
T 14 S, R 44 W
Cecile A Byerley
1085 Byerley
San Jose, California
Except RR ROW

CULTIVATED LAND

S W 1/4 SEC 22
T 14 S, R 44 W

N W 1/4 SEC 27
T 14 S, R 44 W

CULTIVATED LAND

⑤ All of Sec 27
T 14 S, R 44 W
Edward J Weber
Betty Jane Weber
Cheyenne Wells, Colo

③ E 1/2 of SE 1/4, Sec 21
T 14 S, R 44 W
1/2 Mary V Bartholomew
1/6 Earl E Bartholomew
1/6 William A Bartholomew
1/6 Bettie O Deemer
Great Bend, Kansas

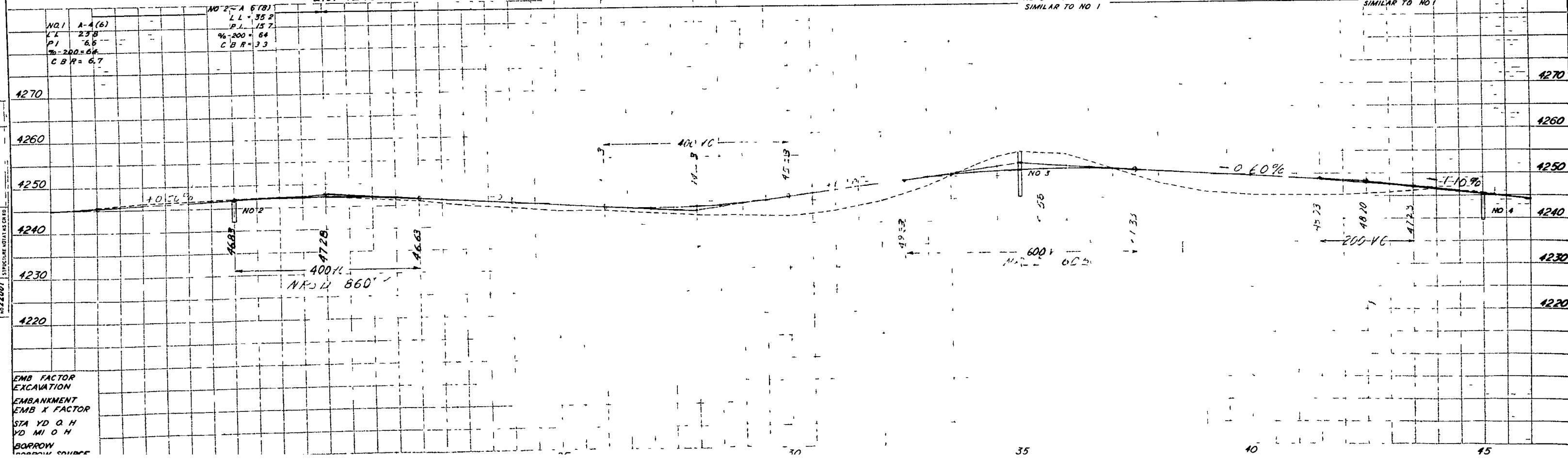
④ (E-1) E 1/2 of Sec 28
T 14 S, R 44 W
Cheyenne Wells Elevator
Corporation, A Corporation
Cheyenne Wells, Colo

REVISIONS

BM No 2
H & G 39' Lt Sta 20+00
Elev 4246.43

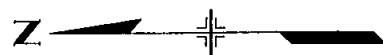
BM No 3
H & G 40' Lt Sta 30+00
Elev 4239

BM No 4
H & G 40' Lt Sta 40+00
Elev 4244.23



EMB FACTOR
EXCAVATION
EMBANKMENT
EMB X FACTOR
STA YD O H
VD MI O H
BORROW
SOURCE

N W 1/4 SEC 27
T 14 S, R 44 W



CULTIVATED LAND

All of Sec 27
T 14 S, R 44 W
Edward J Weber
Betty Jane Weber
Cheyenne Wells, Colo

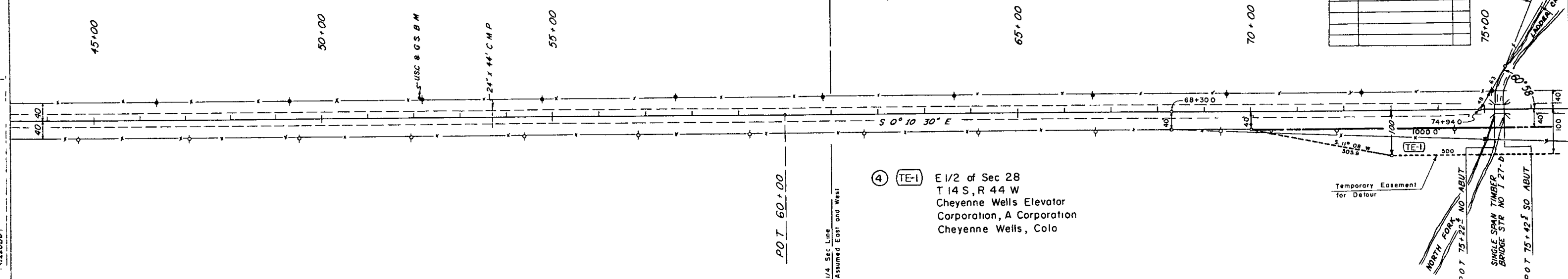
S W 1/4 SEC 27
T 14 S, R 44 W

FED ROAD REG NO	DIVISION	PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO	S 0001 (27)	5	

Cheyenne Wells - South
RIGHT OF WAY

Revisions		
S	Ease Nos	FCM
5	3	60

PLAN
DATE
BY
CHECKED
DATE
BY
22001



N E 1/4 SEC 28
T 14 S, R 44 W

BM No B-90
USC & GS 40 Lt Sta 52+11
Elev 4235.93

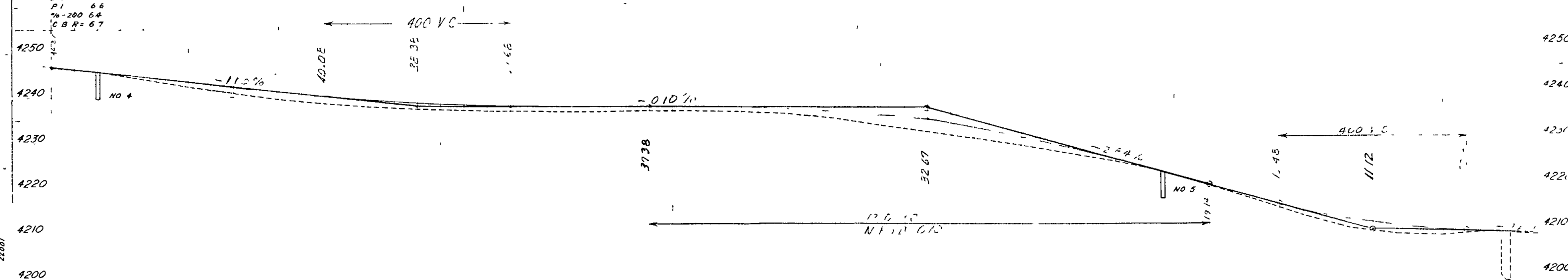
BM No 5
H & G 40 Lt Sta 60+00
Elev 4234.03

S E 1/4 SEC 28
T 14 S, R 44 W

BM No 6
H & G 40 Lt Sta 70+00
Elev 4215.77

NO 4 - A-4 (6)
SIMILAR TO NO 1
NO 1 A-4 (6)
LL 25.8
PI 6.6
%e-200 6.4
CB R=6.7

NO 5 - A-4 (6)
SIMILAR TO NO 1



EMB FACTOR
EXCAVATION
EMBANKMENT
EMB X FACTOR
STA YD O H
YD MI O H
BORROW
BORROW SOURCE

50

55

60

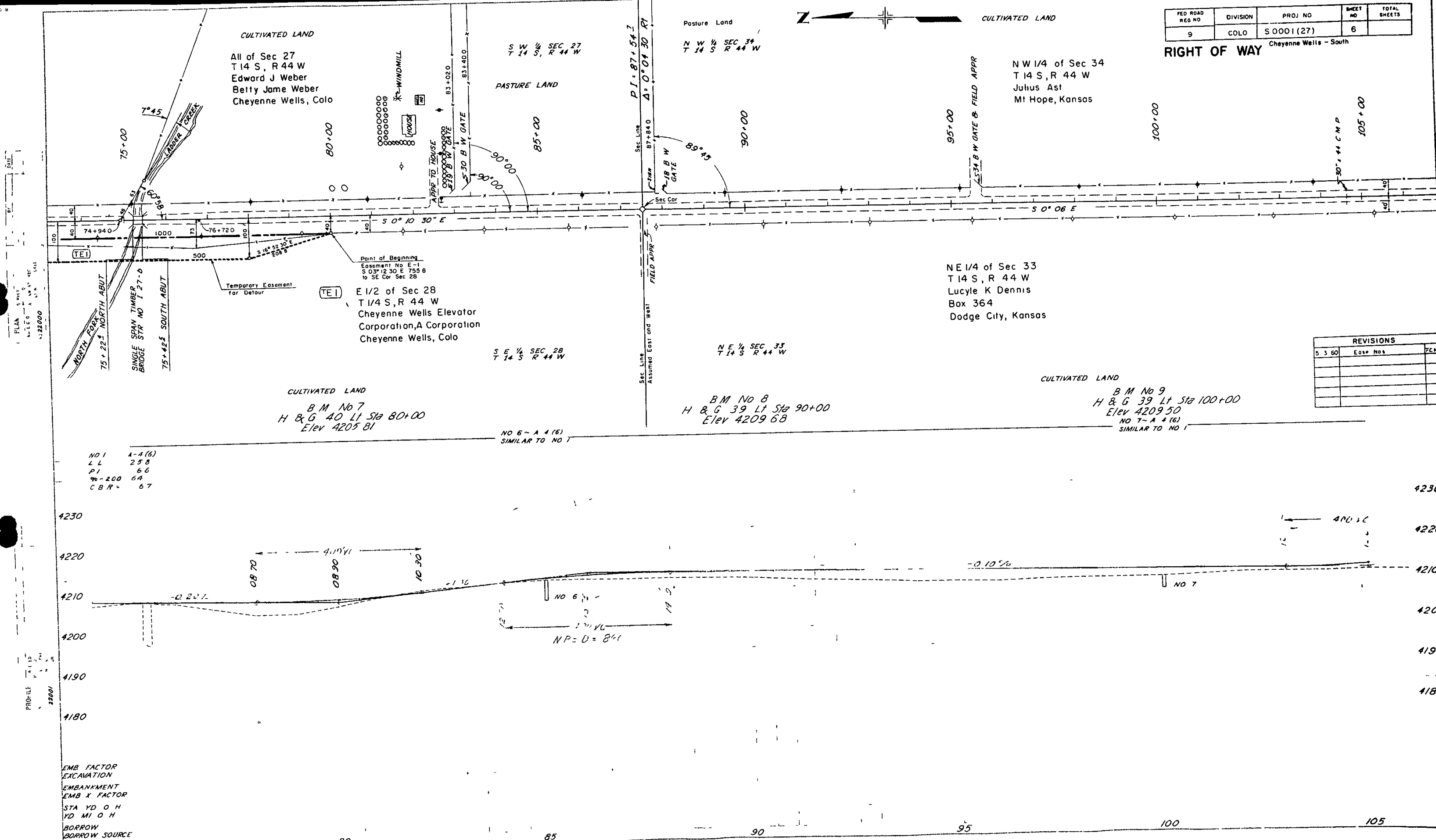
65

70

75

RIGHT OF WAY Cheyenne Wells - South

RIGHT OF WAY

[illegible]

NW 1/4 SEC 34
T14 S, R44 W

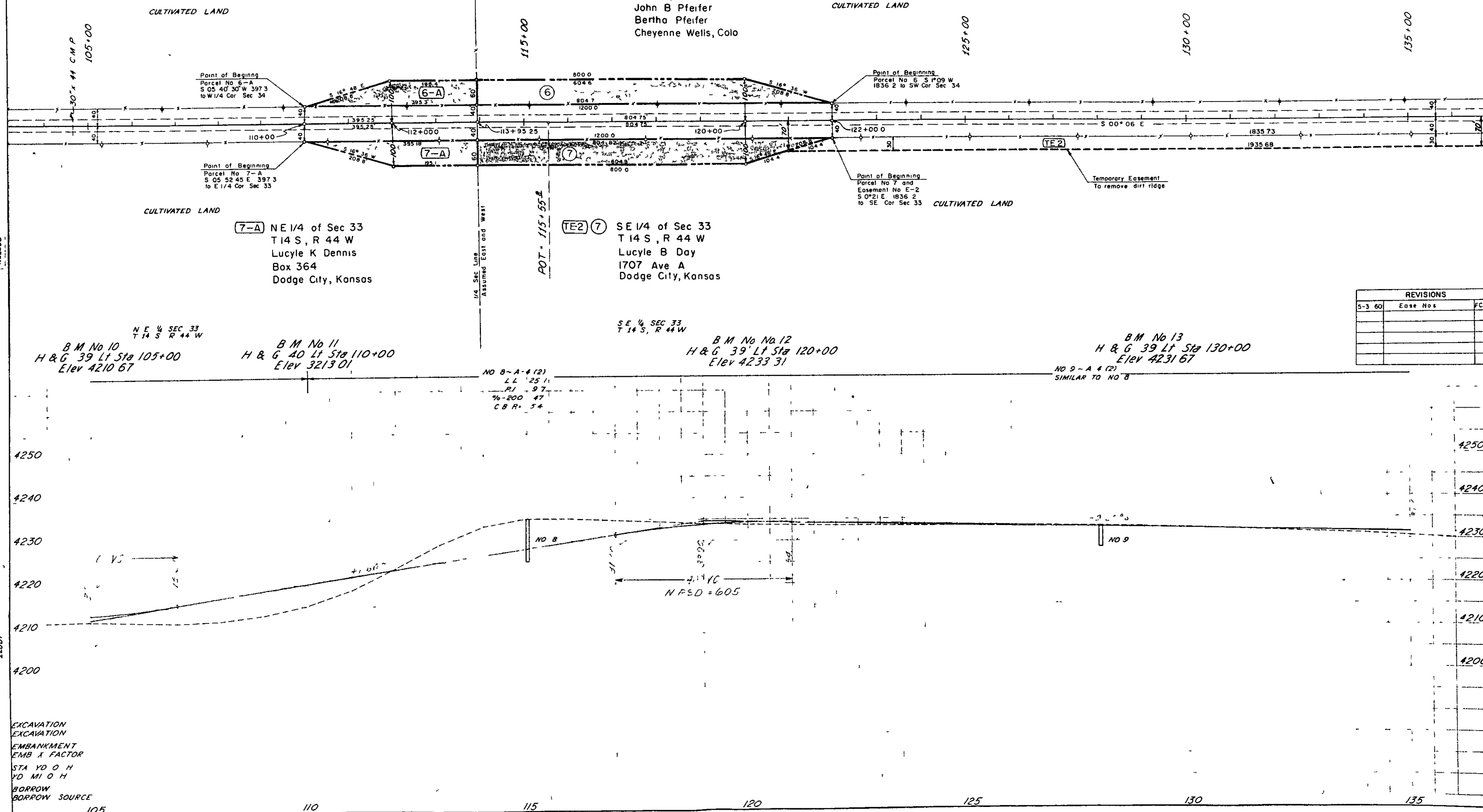
(6-A) NW 1/4 of Sec 34
T14 S, R 44 W
Julius Ast
Mt Hope, Kansas

SW 1/4 SEC 34
T14 S, R44 W

(6) SW 1/4 of Sec 34
T14 S, R 44 W
John B Pfeifer
Bertha Pfeifer
Cheyenne Wells, Colo

FED ROAD REG NO	DIVISION	PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO	S0001(27)	7	

RIGHT OF WAY Cheyenne Wells - South



REVISIONS		
5-3 60	Ease Nos	FCM

S W 1/4 SEC 34
T 14 S R 44 W

N W 1/4 SEC 3
T 15 S R 44 W

N 1/2 of Sec 3
T 15 S, R 44 W
John B Pfeifer
Bertha Pfeifer
Cheyenne Wells, Colo

RIGHT OF WAY
Cheyenne Wells - South

IN 151 N	PLAN U	MEAS NO	DATE
001 U	S 0001 (27)	8	

CULTIVATED LAND

CULTIVATED LAND

NE 1/4 of Sec 4
T 15 S, R 44 W
John B Moeller
1408 Townsend Court
Richland, Washington

REVISIONS		
5 3 60	Ease No	FCM

B M No 14
H & G 39 Lt Sta 139+00
Elev 4226 32

B M No 15
H & G 41 Lt Sta 150+00
Elev 4203 09

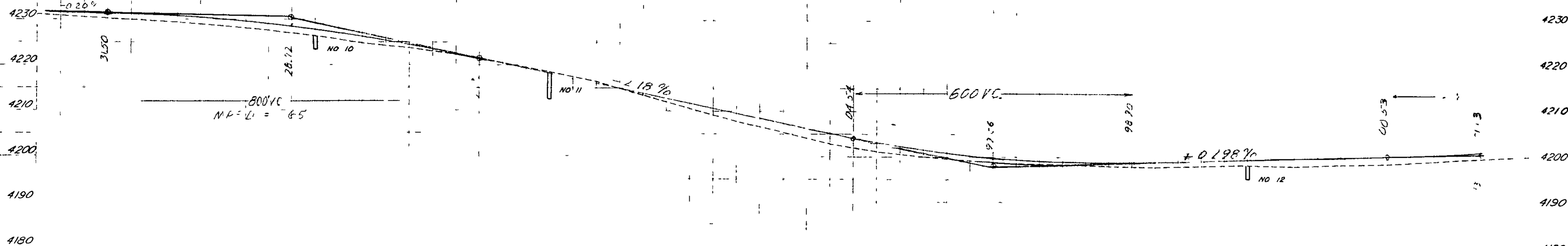
B M No D-90
U S C & G S 47 Lt Sta 159+00
Elev 4194 95

NO 8 A-4 (2)
L L 25 1
P I 9 7
24-200 47
C B R = 5 4

NO 10-A-4 (2)
SIMILAR TO NO 8

NO 11-A-4 (2)
SIMILAR TO NO 8

NO 12-A-4 (2)
SIMILAR TO NO 8



EMB FACTOR
EXCAVATION
EMBANKMENT
EMB X FACTOR
STA YD O H
YD MI O H
BORROW
BORROW SOURCE

135

140

145

150

155

160

165

S 1/2 of Sec 3
T 15 S, R 44 W
Ethel R Quinn
Cheyenne Wells, Colo

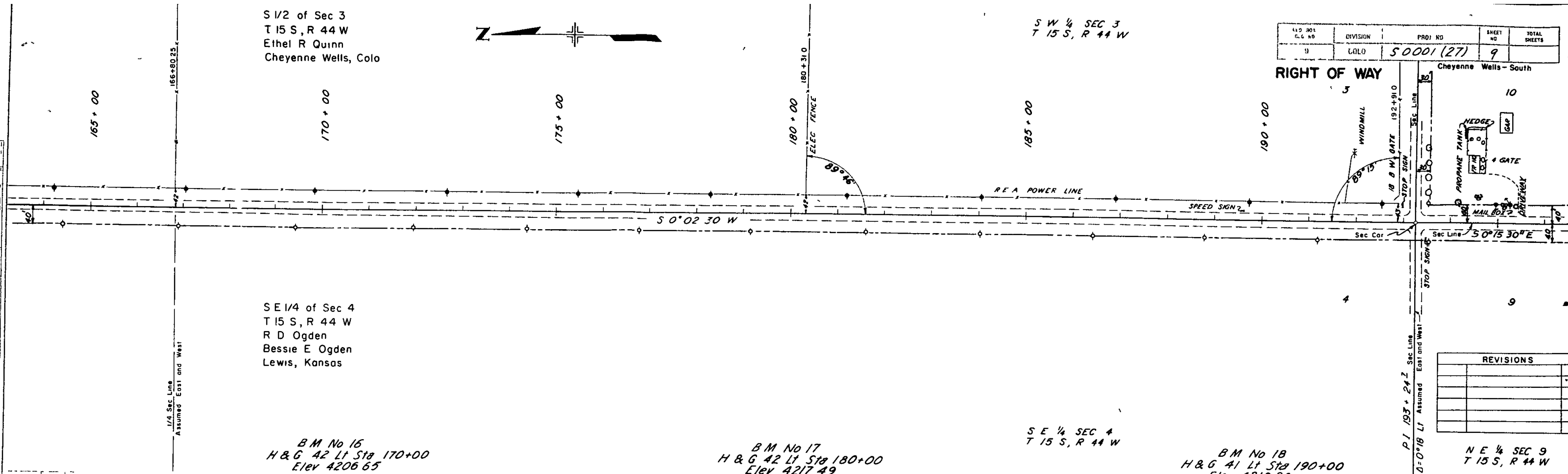
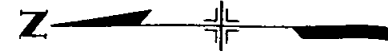
S W 1/4 SEC 3
T 15 S, R 44 W

FILE NO	DIVISION	PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO	50001 (27)	9	

Cheyenne Wells - South

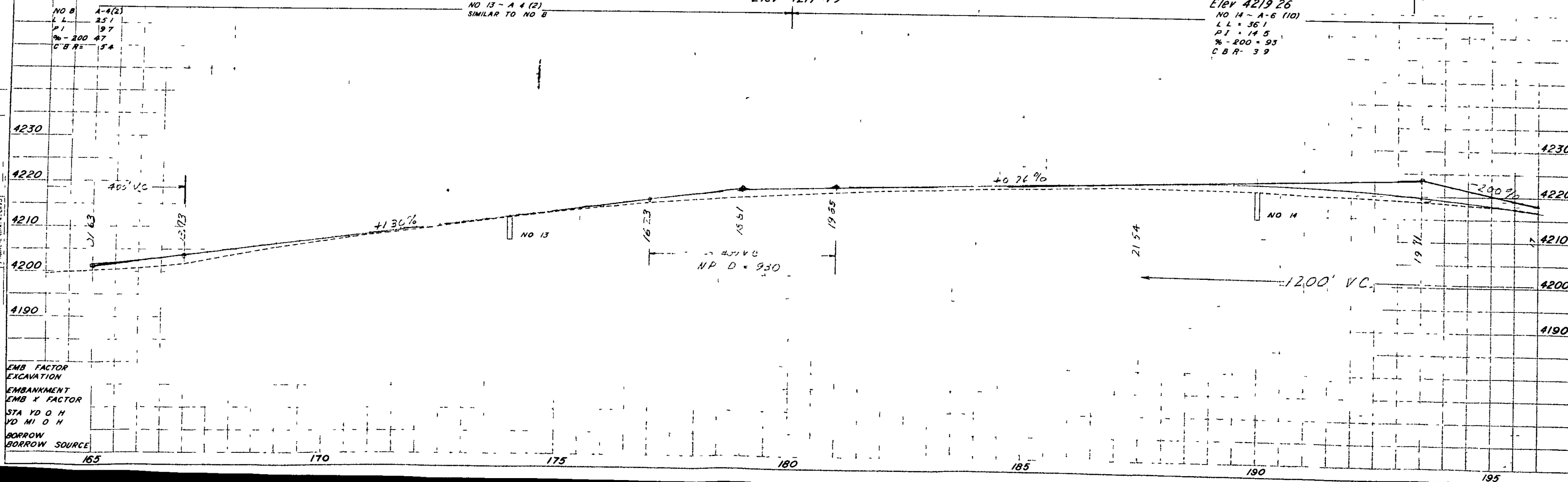
PLAN	DATE
SURVEYED PLOTTED CHECKED BY C. M. CHICKS	
NO. 10000	10/22/00

PROFILE	DATE
SURVEYED PLOTTED CHECKED BY C. M. CHICKS	
NO. 10001	10/22/00



REVISIONS

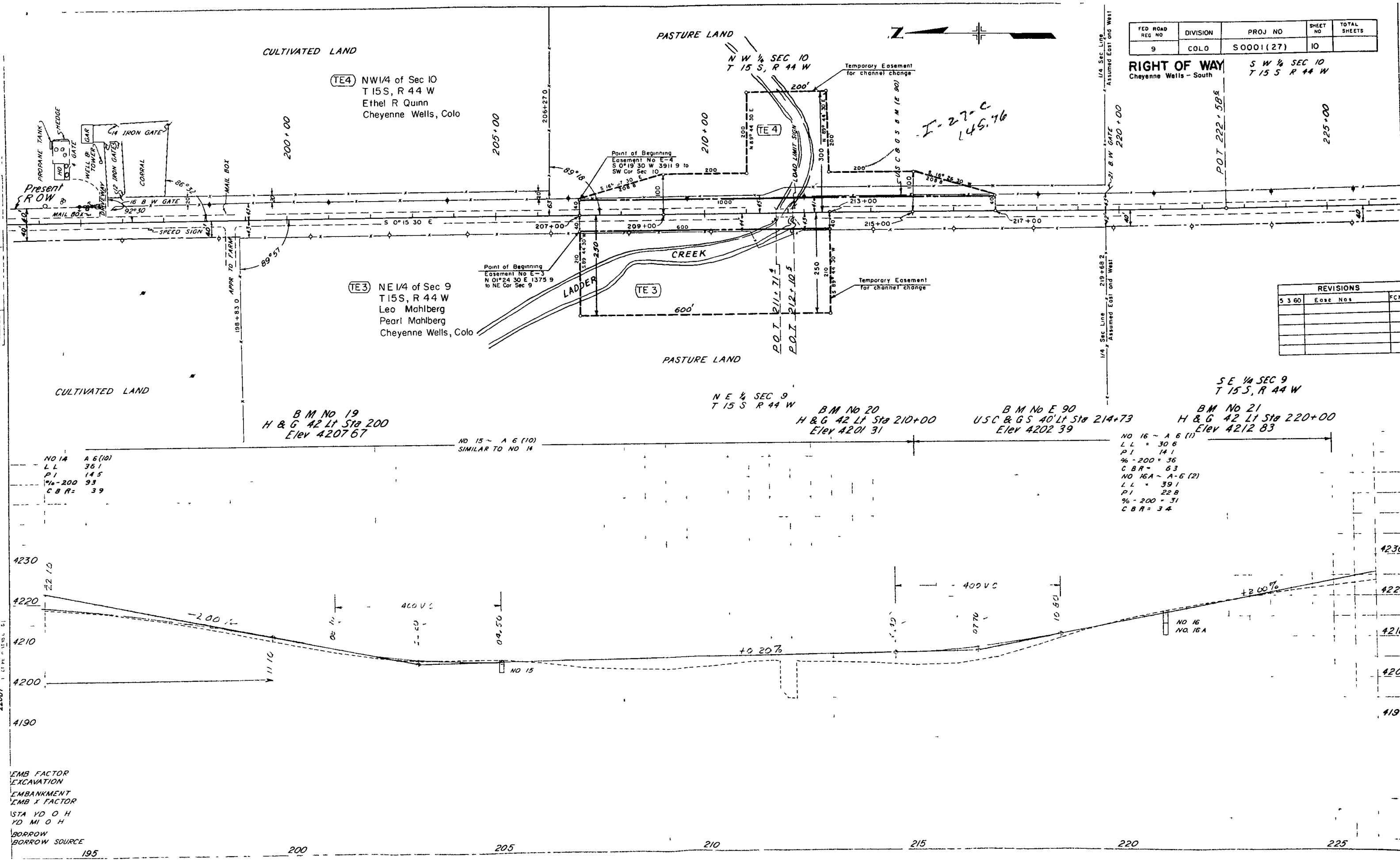
N E 1/4 SEC 9
T 15 S, R 44 W



EMB FACTOR
EXCAVATION
EMBANKMENT
EMB X FACTOR
STA YD O H
YD MI O H
BORROW
BORROW SOURCE

PLAN
 1" = 100'
 22000

PROF'IL
 1" = 10'
 22001



FED ROAD REG NO	DIVISION	PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO	S0001 (27)	10	

RIGHT OF WAY
 Cheyenne Wells - South
 S W 1/4 SEC 10
 T 15 S R 44 W

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

EMB FACTOR
 EXCAVATION
 EMBANKMENT
 EMB X FACTOR
 STA VD O H
 VD MI O H
 BORROW
 BORROW SOURCE

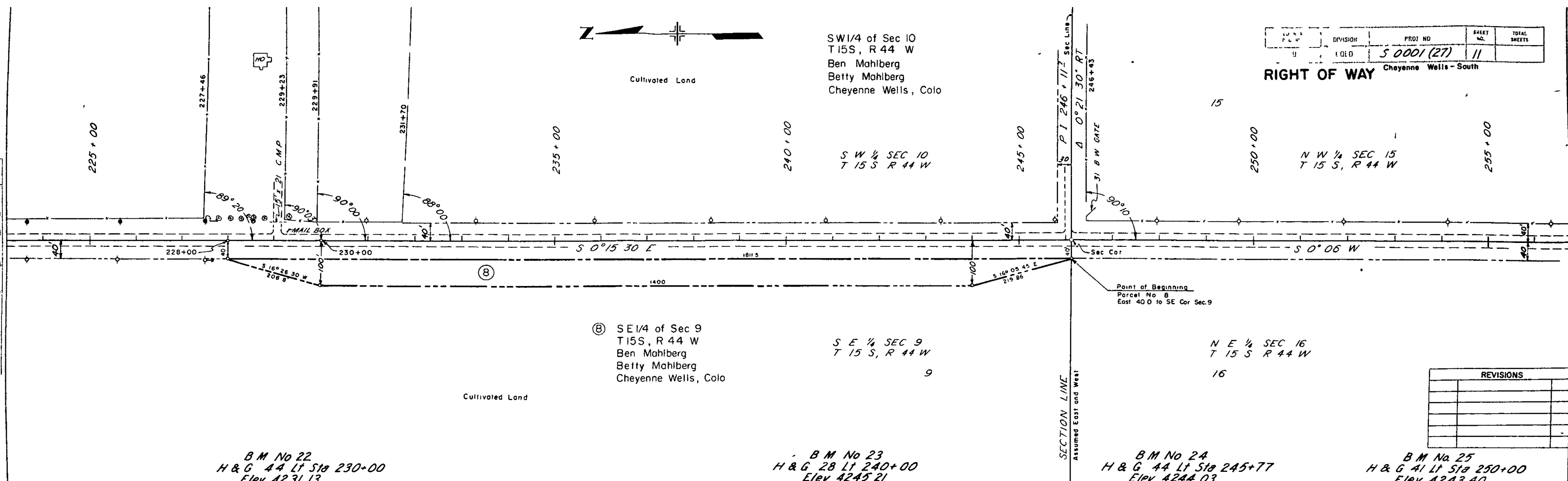


Cultivated Land

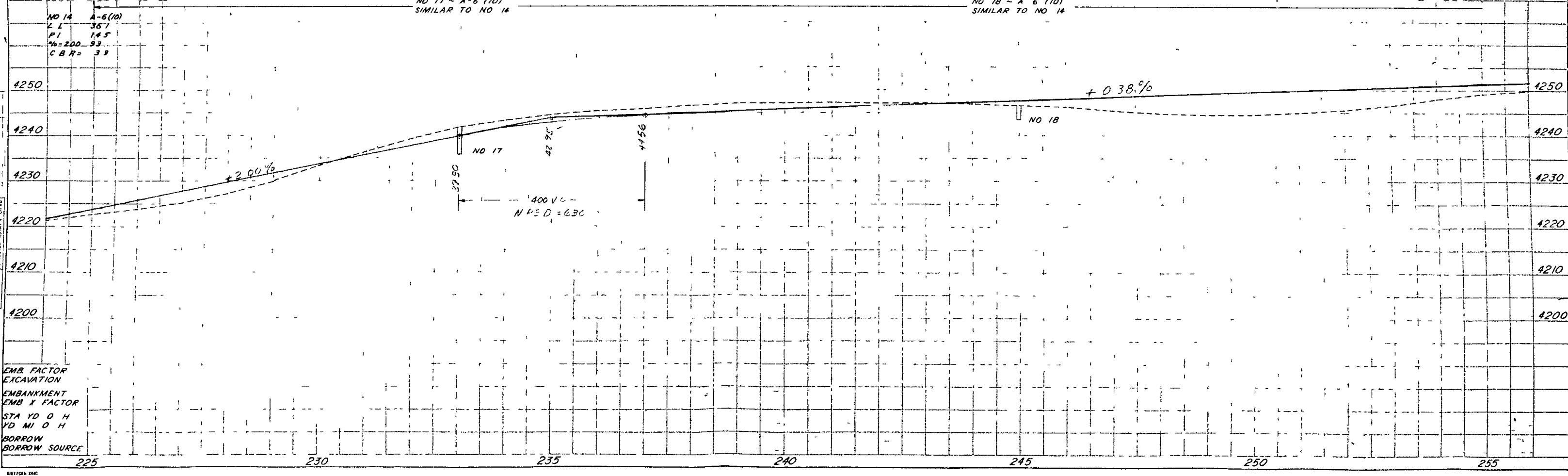
SW 1/4 of Sec 10
T 15 S, R 44 W
Ben Mahlberg
Betty Mahlberg
Cheyenne Wells, Colo

DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1010	S 0001 (27)	11	

RIGHT OF WAY Cheyenne Wells - South



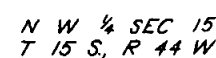
REVISIONS	



EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB X FACTOR
STA YD O H
YD MI O H
BORROW
BORROW SOURCE

Cheyenne Wells - South

RIGHT OF WAY



CULTIVATED LAND

11/4 Sec Line

POT 273 + 932

27.5 + 00

280 + 00

20 + 20

5 0° 06 N

1/4 Sec Line

CULTIVATED LAND

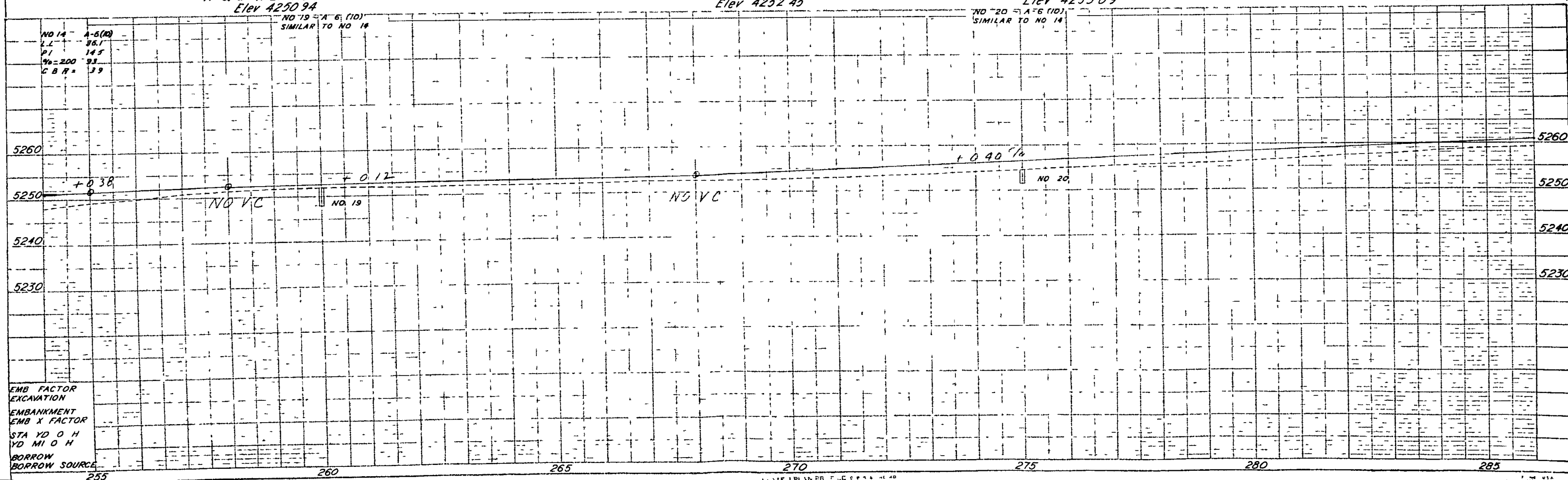
B.M No 26
H & G 41 Lt Stg 260+00
Elev 4250.94

NE 1/4 SEC 16
T 15 S. R 44 W

BM No 27
H & G 42 Lt Sta 270+00
Elev 4252.45

B M No 28
H & G 41 Lt Sta 280+00
Elev 4255.09

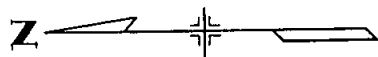
SE 1/4 SEC 16
T 15 S, R 44 W

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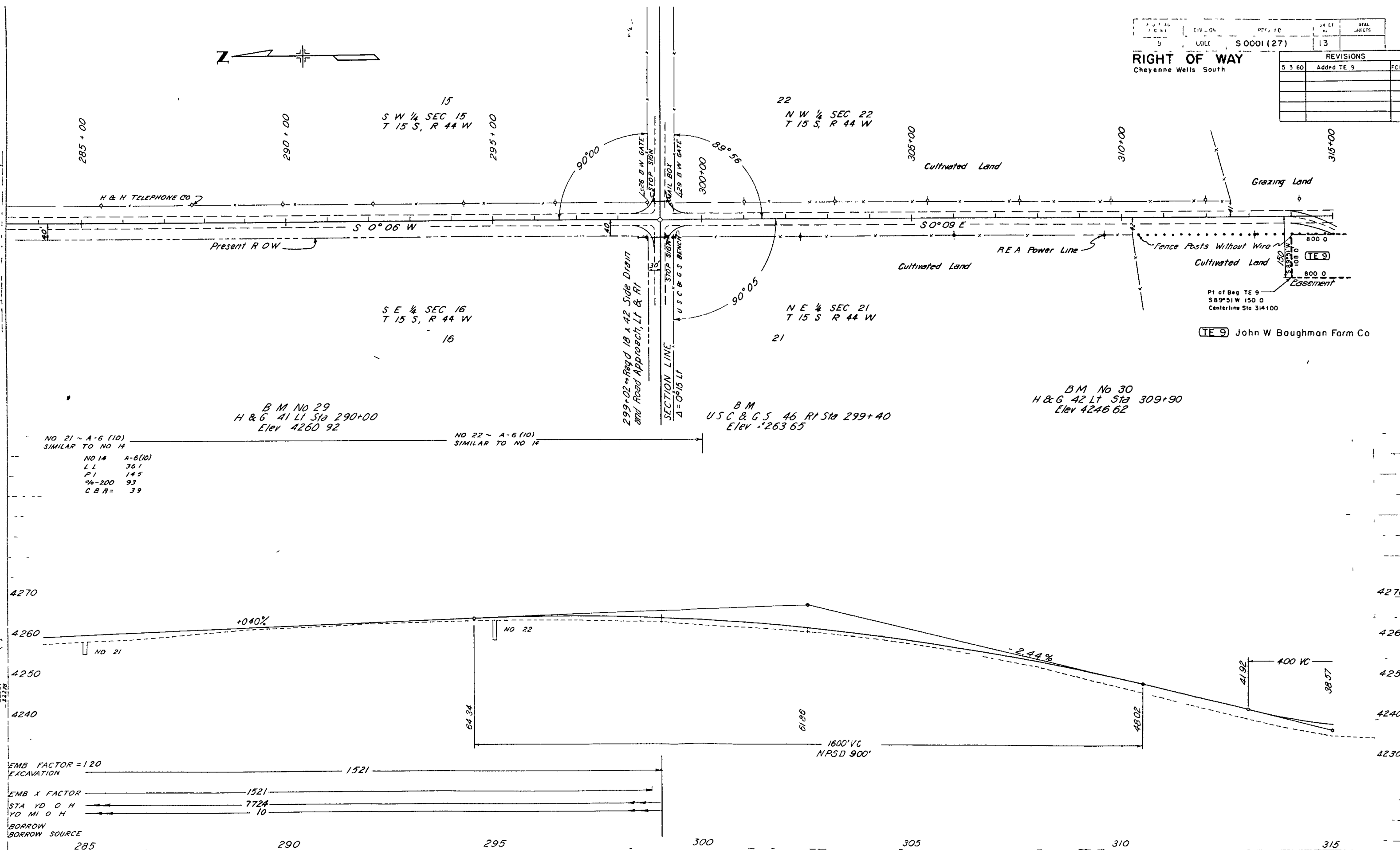
EMB FACTOR
EXCAVATION
EMBANKMENT
EMB X FACTOR
STA YD O H
YD MI O H
BORROW
BORROW SOURCE

14 MAY 1961 PM 7 40 P 9 4 40 40

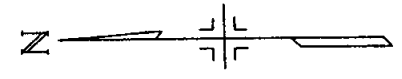
Q- THE USA
WASH DC 1 8 CH



PROJECT	DATE	BY	CHKD	DATE
RIGHT OF WAY	10/1/54	J. L. L.	J. L. L.	10/1/54
Cheyenne Wells South				
S 0001 (27)				
REVISIONS				
5 3 60	Added TE 9		FCM	



NW 1/4 Sec 22
T15S, R44W



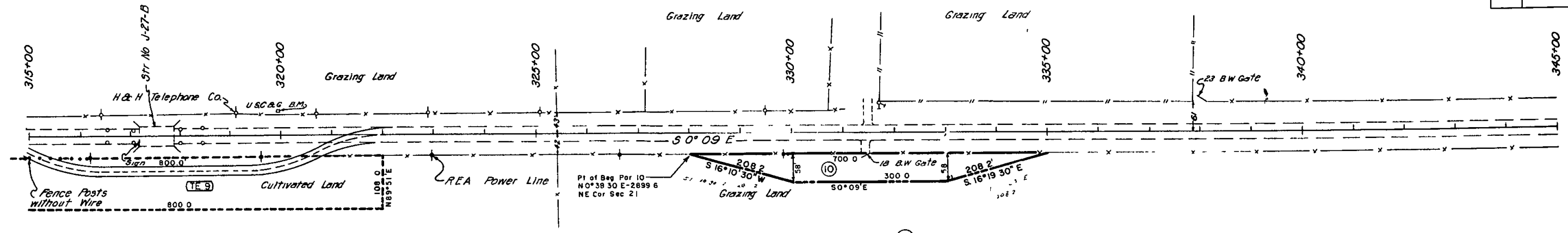
SW 1/4 Sec 22
T15S, R44W

DATE	BY	REVISIONS
5-3-60	Added Par 10 & TP 9	FCM
6-23-60	10 Rev	JLS

DATE	BY	REVISIONS
5-3-60	Added Par 10 & TP 9	FCM
6-23-60	10 Rev	JLS

RIGHT OF WAY
Cheyenne Wells South

DATE	BY	REVISIONS
5-3-60	Added Par 10 & TP 9	FCM
6-23-60	10 Rev	JLS



⑩ Lawrence Plumber (Estate)

NE 1/4 Sec 21
T15S, R44W

(TE 9) John W Baughman Farm Co

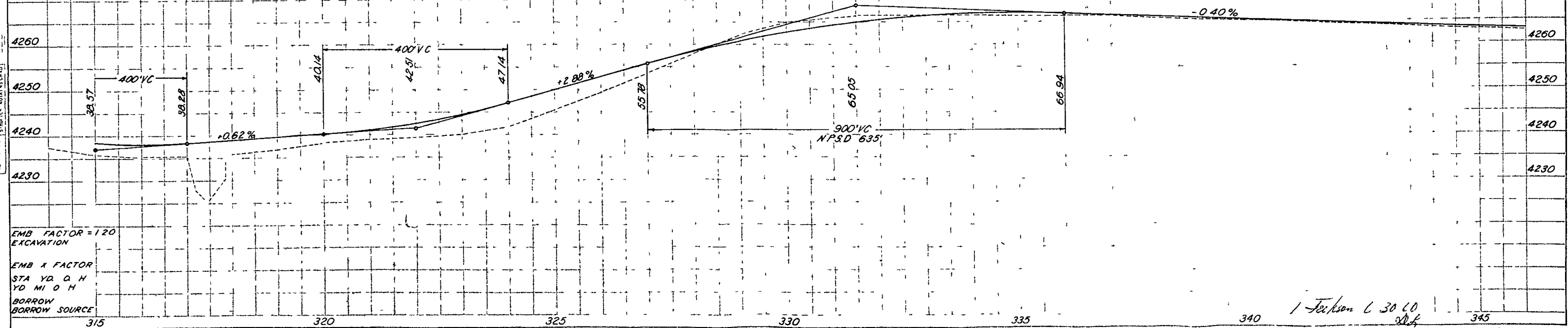
USC&G B.M. No 690
46 Lt Sta 319+96
Elev 4238.55

B.M. No 31
H&G 44' Lt Sta 330+00
Elev 4264.35

SE 1/4 Sec 21
T15S, R44W

B.M. No 32
H&G 60 Lt Sta 340+
Elev 4264.21

DATE	BY	REVISIONS
5-3-60	Added Par 10 & TP 9	FCM
6-23-60	10 Rev	JLS



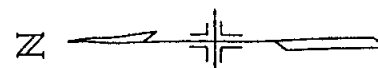
EMB FACTOR = 120
EXCAVATION

EMB X FACTOR
STA YD. O. H.
YD. MI. O. H.
BORROW
BORROW SOURCE

1 Jackson L 30 60
206

SW 1/4 Sec 22
T15 S, R 44 W

NW 1/4 Sec 27
T15 S, R 44 W



PROJECT NO. S0001(27)
SHEET NO. 15
TOTAL SHEETS

RIGHT OF WAY
Cheyenne Wells - South

REVISIONS		
5	3	60
Added Sheet		FCM

Cultivate Land

Grazing Land

SE 1/4 Sec 21
T15 S, R 44 W

BM No 33
H&G 60 LF STA 350
Elev 4260.37

NE 1/4 Sec 28
T15 S, R 44 W

STA 351+861 End S0001(27)

-0.40%

6080

4260

4250

4240

EMB FACTOR = 120
EXCAVATION

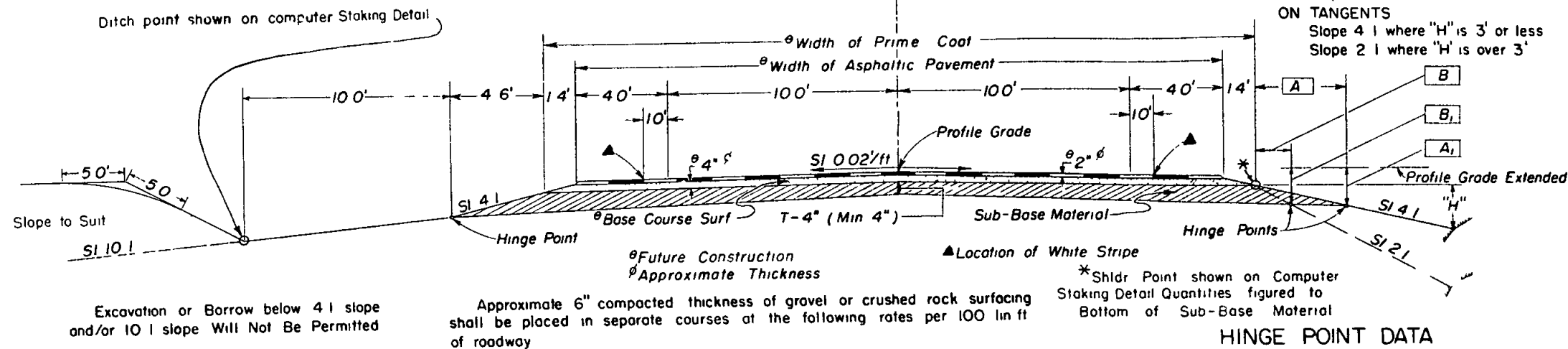
EMB X FACTOR
STA YD. 0 H
YD MI 0 H

BORROW
BORROW SOURCE

FEDERAL ROAD REGION NO	DIVISION	PROJ	SHEET NO	TOTAL SHEETS
9	COLORADO	S 0001 (27)	2	

TYPICAL CROSS SECTION OF IMPROVEMENT

NOTE
See Standards for details of Cut Slope Treatment, Flaring and Widening



Excavation or Borrow below 4:1 slope and/or 10:1 slope Will Not Be Permitted

The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage and/or entrance to drainage structures

Approximate 6" compacted thickness of gravel or crushed rock surfacing shall be placed in separate courses at the following rates per 100 lin ft of roadway

	Tons
Asphaltic Pavement	
Base Course Surfacing	

Material above the subgrade is to be constructed of sub-base material at locations designated in Sub-Base Material Tabulation. Estimated quantities involved in this operation and thickness of material required are tabulated in the Sub-Base Material Plan

FILL SLOPES
ON CURVES
Slope 4:1 where "H" is 5' or less
Slope 2:1 where "H" is over 5'
ON TANGENTS
Slope 4:1 where "H" is 3' or less
Slope 2:1 where "H" is over 3'

HINGE POINT DATA

T (DESIGN THICKNESS)		SLOPE 4:1		SLOPE 2:1	
T-4"	T-4"	A	A ₁	B	B ₁
INCHES (MIN 4")					
6"	4"	2.2'	-1.4'	1.0'	-1.3'
8"	4"	3.9'	-1.8'	1.8'	-1.7'
9"	5"	3.9'	-1.8'	1.8'	-1.7'

GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado Department of Highways, adopted January 1, 1958

All quantities on preliminary plans are to be considered approximate only

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

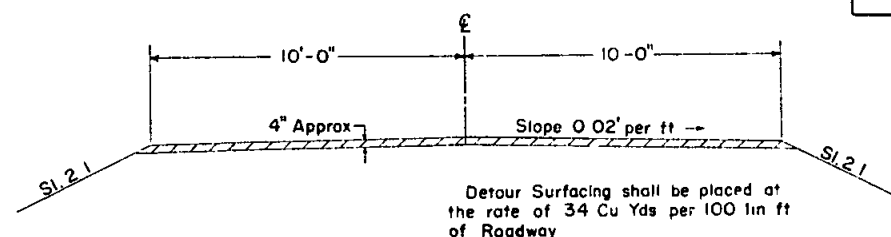
Sub-Base Material (4" thick) shall be placed on all side Approach Roads. Estimated quantities for this operation are shown in List of Structures

The thickness of Sub-Base Material shall be increased at Bridges to meet Bridge Elevation and shall take place gradually 50ft from each end of Bridge. Added quantities of Sub-Base Material for this operation are included in the Sub-Base Material Plan

Class "AX" Concrete may be used on this project

TYPICAL SECTION OF DETOUR

STA 70+ to STA 79+, STA 207+ to STA 217+, STA 314+ to STA 321+



RIGHT OF WAY MARKERS

STATION	SIDE	NUMBER
230+00	Rt	1
33+00	Lt & Rt	2
120+00	Lt & Rt	2
244+00	Rt	1
333+00	Rt	1
TOTALS		7

FENCING REQUIREMENTS

STATION	SIDE	REMOVE FENCE	BUILD BARBED WIRE FENCE	BUILD PICKET SNOW FENCE	GATES BARBED WIRE	REMOVE AND REBUILD FENCE
		LIN FT	LIN FT	LIN FT	EACH	LIN FT
0+00 to 1+50	Lt	270				
30+00 to 34+14	Lt & Rt	1140				
34+73 to 40+00	Lt & Rt	1310				
71+50 to 78+00	Rt	660				
75+	Lt	100				
110+00 to 122+00	Lt	1260				
110+00 to 133+30	Rt	3020				
207+50 to 216+50	Lt	890				
211+00 to 212+40	Rt	160				
212+40 to 217+00	Lt	460				
33+00 to 34+14	Rt			115		
34+73 to 37+00	Rt			230		
229+50 to 244+50	Rt			1500		
0+00 to 1+50	Lt		165			
30+00 to 34+14	Lt & Rt		920			
34+73 to 40+00	Lt & Rt		1160			
71+50 to 78+00	Rt		660			
75+	Lt		100			
110+00 to 122+00	Lt		1220			
110+00 to 133+30	Rt		3040			
207+50 to 216+50	Lt		890			890
211+00 to 212+40	Rt		160			
212+40 to 217+00	Lt		460			
0+50	Lt				1	
34+40	Lt				1	
35+40	Lt				1	
331+45	Rt				1	
328+00 to 335+00	Rt	700	720			
TOTALS		10,030	94,95	1845	4	890

TIMBER GUARD POSTS

STATION	SPACING	SIDE	REMOVE	REQUIRED
			EACH	EACH
0+80	Culvert	Lt & Rt		2
11+02	Culvert	Lt & Rt		2
53+69	Culvert	Lt & Rt		2
74+ to 76+	Culvert	Lt & Rt	20	2
100+00	Culvert	Lt & Rt		2
74+55	Bridge	Lt & Rt		2
76+09	Bridge	Lt & Rt		2
95+00	Culvert	Lt & Rt		2
104+65	Culvert	Lt & Rt		2
108+00	Culvert	Lt & Rt		2
155+84	Culvert	Lt & Rt		2
210+95	Bridge	Lt & Rt		2
211+ to 212+	Culvert	Lt & Rt	20	2
212+87.3	Bridge	Lt & Rt		2
161+00	Culvert	Lt & Rt		2
169+00	Culvert	Lt & Rt		2
204+00	Culvert	Lt & Rt		2
280+00	Culvert	Lt & Rt		2
316+71	Bridge	Lt & Rt		2
316+ to 318+	Bridge	Lt & Rt	20	2
318+37	Bridge	Lt & Rt		2
345+00	Culvert	Lt & Rt		2
TOTALS			60	38