FED. ROAD DIST. NO-	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	251C	20	

Rev. 6-22-28 H.O.W.

PLAN		BY	DATE
NOTE BOOK NO. 1942	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

N
House.
358+83 Reqd. 15"x30' C.M.P. 32' Header and 26 Cu.Yd. Bor.
358+78 Reqd. 15"x30' C.M.P. 32' Header and 12 Cu.Yd. Bor.
360+18 Reqd. 18"x60' Siphon H=5.0'
2'x2' Ditch
3'x2' Ditch
2'x1' Ditch
N. 89° 50' E.
U.S.M.
SE4 Sec. 29
SW4 Sec. 28
NE4 Sec. 32
NW4 Sec. 33
373+40 Reqd. 96' Header & 33 Cu.Yd. Bor.
373+40 Reqd. 18"x60' C.M.P. 96' Header and 33 Cu.Yd. Bor.
373+70 Reqd. 18"x18"x60' Conc. Cul.
+38.0 P.O.T.
Cor. 2.8 No.
Sign
Riley Lateral
+04.0 P.I. Δ 0°02' L.
375+78 In place 2'8"x1'8"x18' Conc. and wooden box Reqd. to be removed and place 3'x3'x50' Conc. Box Siphon H=2'. Std. M-105A
House.
377+70 Reqd. 15"x30' C.M.P. 32' Hdr. 5 C.Y. Bor.
377+70 Reqd. 15"x30' C.M.P. 32' Header and 10 Cu.Yd. Bor.
378+10 Reqd. 15"x30' C.M.P. 32' Hdr. 4 C.Y. Bor.
Orchard.
House.
380+61 Reqd. 15"x50' C.M.P. 64' Header and 26 Cu.Yd. Bor.
N. 89° 48' E.
End of phone line
5280
5270
5260
5250
-0.5%
Fl. 72.8
100' V.C.
69.50
69.34 V.C.
69.35
P.I. 69.25
+0.2%
Fl. 66.5
Fl. 64.2
70.65
P.I. 70.85
70.53 V.C.
69.75
200' V.C.
-1.1%
65.90
P.I. 65.35
65.23 V.C.
64.30
100' V.C.
-2.1%
55.90
P.I. 54.85
Excav. Com.
Emb. + 15%
Borrow
Overhaul
55
5
3173
2851
262
355
360
365
370
375
380
385

N
SW4 Sec. 28 T.1N. R.69W.
NW4 Sec. 33 T.1N. R.69W.
392+39 Reqd. Concrete Project Marker.
EQUATION
392+39.6 Back F.A.P. 251C = 394+00 Ahead F.A.P. 251A.
2'x1' Ditch
N. 89° 48' E.
F.A.P. 251-A
386+28 Reqd. 15"x30' C.M.P. 32' Header and 33 Cu.Yd. Bor.
House.
388+50 Reqd. 15"x30' C.M.P. 32' Header and 4 Cu.Yd. Bor.
Sta. 392+39.6 End of F.A.P. 251 Sec. C
5260
5250
5240
5230
-2.1%
55.90
P.I. 54.85
54.79 V.C.
53.54
100' V.C.
-2.62%
+89.6 El. 39.4
+39.6 El. 38.13 End of present pavement on F.A.P. 251A.
200' V.C.
+89.6 P.I. El. 36.8
F.A.P. 251A
-1.37%
385
390

PROFILE		BY	DATE
NOTE BOOK NO. 1941	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
	GRADES CHECKED		
	B. M.S NOTED		
	STRUCTURE NOTAT'NS CH'KD.		

MICROFILMED

PLATE 2—PLAN-PROFILE O.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	251-C	1	

S.H. No. 7

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. 251-C
STATE HIGHWAY NO. 7
BOULDER COUNTY

INDEX OF SHEETS

1. Title Sheet.
2. Typical Cross Section and Summary of Quantities.
2A List of Structures.
3. Special Minor Structures.
4. 8'x3' Concrete Box Culvert
5 10'x3' " " "
6 6'x2' " " "
7 2'-6"x1' " " "
8 10'x4' Double " " "
9 Standard Concrete Box Culverts M-103 B
10 Standard Siphons M-101 A.
11 Standard 3'x3' Concrete Box Siphon M-105 A
12 Barbed Wire Fence and Project Marker M-24 B
13 Standard Picket Snow Fence M-25 A
14-20 Plan and Profile Sheets.
21-38 Cross Section Sheets.

CONVENTIONAL SIGNS

Center Line of Improvement.
Telephone Poles.
Electric Power Poles.
Railway Tracks.
Fences.
Section Lines.
¼ Section Lines.

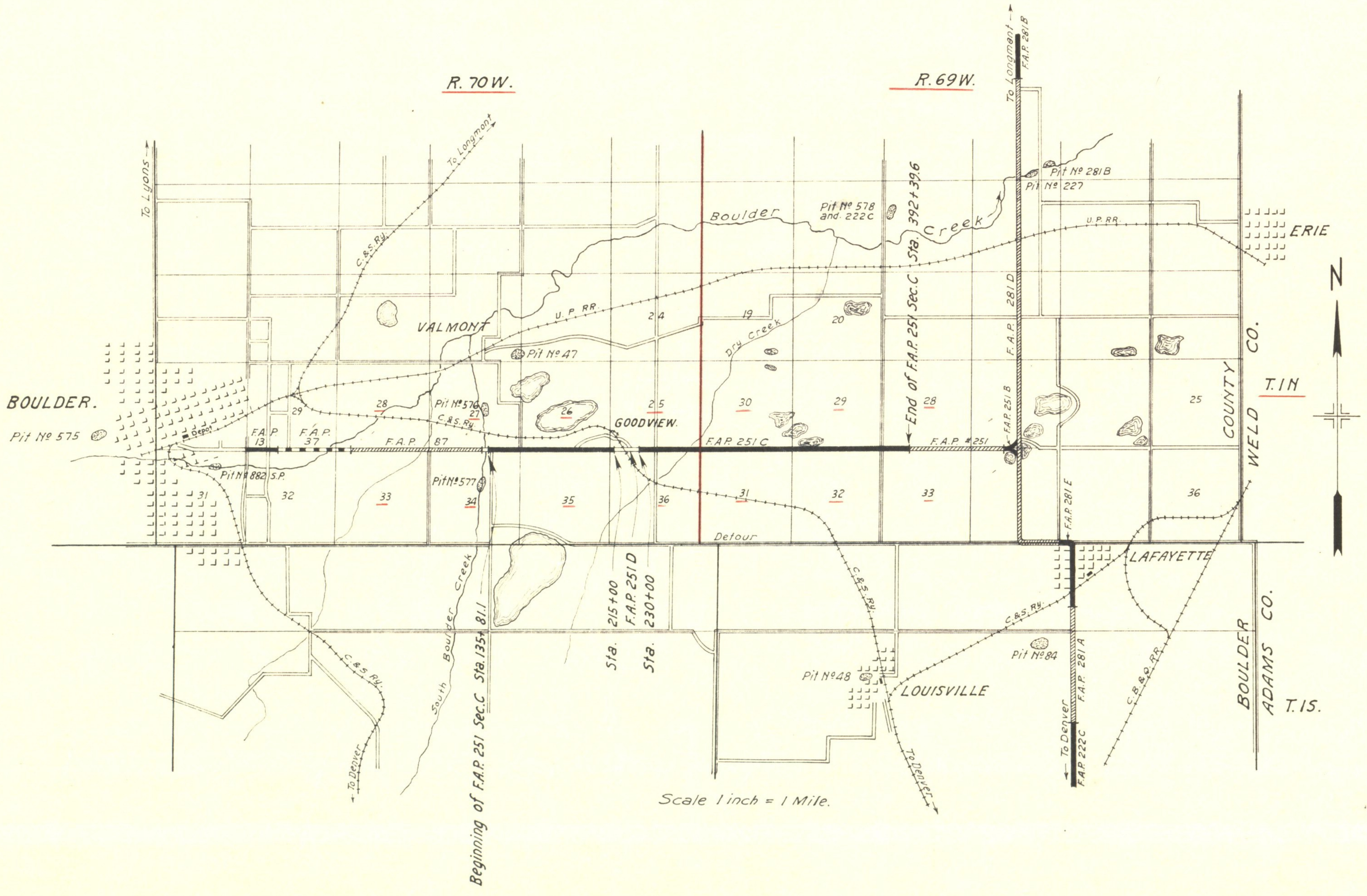
T1N R70W

SE¼ Sec. 27 → E.

NE¼ Sec 34 → E.

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 25 307.7 FEET = 4.793 MILES.
NET LENGTH OF PROJECT 23 807.7 DO = 4.509 DO.



Scale 1 inch = 1 Mile.

RECOMMENDED FOR APPROVAL
J. E. Maloney
ASSISTANT ENGINEER

APPROVED
L D Blauvelt
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL
[redacted]
DIST ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL
[redacted]
CHIEF ENG. BUREAU PUBLIC R

APPROVED
[redacted]
DIRECTOR BUREAU PUB

H.O. Wagner

MICROFILMED

FED. ROAD DIST. NO-	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	251C	14	

Rev. 6-22-28 H.O.W.

135+81.1 to 141+25 Construct ½ width of pavement at a time to allow for detour to side road. Widen shoulders to 9ft. between above stations and place 75 Cu.Yds. of gravel shoulders.

Note:- All road signs on this project which interfere with construction or which might be damaged thereby are to be removed previous to construction and are to be replaced after construction, all at contractor's expense.

Right of way lines from Sta. 135+81.1 to 184+47.6 and from 230+00 to 392+36.9 are 30ft. each side of section line.

See Sheet №2 for estimated overhaul on borrow excavation.

The work required on fences is shown in table on sheet #2A construct new fences on right of way lines.

N
F.A.P. №87
135+46.1 End of bridge.
136+11 Reqd. 15"x30' C.M.P. Side Drain, 32' Header and 10Cu.Yd. Bor. Exc.
Ditch
Sign
N. 89°59'E.
U.S.M.
Barn.
House
141+07 Reqd. 15"x30' C.M.P. 32' Header and 28Cu.Yd. Bor. Exc.
135+64 32'x22' Concrete bridge in place in good condition.
So. Boulder Creek
Sta 135+81.1 Beginning of F.A.P. 251 Sec.C
135+81.1 Reqd. Concrete Project Marker.
Detour to Base Line Road
140+08 1½'x1½'x50' Wood Box in pl. Reqd. to remove and place 15"x70' C.M.P. and 96' Header
141+78 Reqd. 15"x30' C.M.P. 32' Header and 20 Cu.Yd. Bor. Exc.
147+45 Reqd. 15"x50' C.M.P. 64' Header and 52 Cu.Yd. Bor. Exc.
149+24 Reqd. 15"x30' C.M.P. 32' Header and 24 Cu.Yd. Bor. Exc.
153+72 Reqd. 15"x30' C.M.P. 32' Header and 27 Cu.Yd. Bor. Exc.
Telephone Line
Power Line
Ho.
SE4 Sec. 27
155+75 Reqd. 15"x30' C.M.P. 32' Hdr. & 30Cu.Yd. Bor.
NE4 Sec. 34
T.1N. R.70W.
156+27 Reqd. 15"x30' C.M.P. 32' Header and 27 Cu.Yd. Bor. Exc.
158+00 P.I. Δ 0°12' R.
06.8 P.O.T.
Cor. 2.3' So.
Filling Station.
158+05 (Scale)
157+98 2'x1' Wood Box in place Reqd. to remove box and place a 24"x55' Siphon H=1'
160' Header and 10Cu.Yd. Bor. left
64' " " 3 " " right
Sign.
SW4 Sec. 26.
In place Conc. Siphon
East Boulder Ditch
162+38 Reqd. 15"x30' C.M.P. 32' Header & 10 Cu.Yd. Bor.
S.89°49'E.
NW4 Sec. 35
T.1N. R.70W.
161+00 Reqd. 32' Header & 3Cu.Yd. Bor. Exc.
161+19 In place 6.6'x3.4'x22' Conc. Culv. Reqd. to remove and place 10'x3'x30' Conc. Culvert. Type 10-1. See Sheet 5
161+50 Reqd. 15"x30' C.M.P. 32' Header and 8 Cu.Yd. Bor.
Ditch
163+19 In place 12"x24' C.M.P. Reqd. to remove and place a 18"x18"x30' Concrete Culvert.
5250
5240
5230
+0.8%
+46.1 El. 36.05
+81.1 El. 36.09
Fl. 27.7
+0.1%
36.31
200' V.C.
36.53 V.C.
37.01
P.I. 36.41
+0.6%
P.I. 40.61
+0.75%
Approximate Borrow Pit Grade
47.75
P.I. 48.48
48.48
200 V.C.
Fl. 47.0 Present Box.
0.0%
Fl. 43.4
100 V.C.
48.48
48.51 V.C.
48.60
P.I. 48.48
+0.25%
Fl. 45.6
Exca. Cem.
Emb. +15%
Borrow
Overhaul
143
2790
2647
241
241
1360
1360
135
140
145
150
155
160
165
166+00 Reqd. 15"x30' C.M.P. 32' Header and 10Cu.Yd. Bor.
167+80 Reqd. 15"x30' C.M.P. 32' Header and 20Cu.Yd. Exc.
171+25±
172+51 In place 12" C.M.P. and Wood Box. Reqd. to remove & place 18"x18"x30' Conc. Culvert.
Power Line
1'x1' Drain under ditch
179+22 In place 1'x1' Wood Box Reqd. to remove and place 18"x18"x30' Concrete Culvert.
SW4 Sec. 26
SE4 Sec. 26
+47.6 P.O.T.
Cor. 2.0' So.
184+47.6±
NW4 Sec. 35
NE4 Sec. 35
S.89°49'E.
House.
Enterprise Ditch
Present Road
191+36.2 P.I. Δ 0°23' R.
S.89°26'E.
80'
193+60±
5260
5250
5240
+0.25%
Fl. 48.1
52.48
400' V.C.
54.66 V.C.
P.I. 52.98
Fl. 49.6
60.18
+3.6%
70.98
600' V.C.
84.33 V.C.
P.I. 81.78
+7.0%
14
142
93
165
170
175
180
185

PLATE 2-PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

PLAN		BY	DATE
	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
NOTE BOOK	ALIGNMENT CHECKED		
NO. 1942 1940	RT. OF WAY CHECKED		

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
NOTE BOOK	GRADES CHECKED		
NO. 1942 1940	B. M.S NOTED		
	STRUCTURE NOTAT'NS CH'KD.		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	251-C	15	

Rev. 6-22-28 H.O.W.

N
SW⁴ Sec. 26
SE⁴ Sec. 26
NW⁴ Sec. 35
NE⁴ Sec. 35
SE⁴ Sec. 26
SW⁴ 25
NE⁴ Sec. 35
NW⁴ 36
182+20 Reqd. 15"x 30" C.M.P. 32' Header and 21 Cu. Yd. Bor.
184+50 Reqd. 18"x 50' C.M.P. 48' Header and 370 Cu. Yd. Bor.
184+60 Reqd. 15"x 50' C.M.P. 48' Header and 100 Cu. Yd. Bor.
184+47.6±
+47.6 P.O.T.
Cor. 2.050.
187+71±
189+40 Reqd. Side Approach 250 Cu. Yd. Bor. 32' Header, 18"x 30' C.M.P.
House
Ditch 1.5' x 1.5'
Sign
Enterprise Ditch
Pipe Line
Present Road
190+30 In place 7'9"x 2'-2"x 24' Concrete Culvert Reqd. 8'x 3'x 54' Concrete Culvert and remove present culvert, Type 8-I See Sheet No 4
191+36.2 P.I. Δ 0°23' R.
Cistern
S.89°49'E.
S.89°26'E.
N.89°59'E.
80'
197+90 Gravel Loading Platform in poor condition. Reqd. to be removed.
193+00 to 202+00 Reqd. 900 ft. Snow Fence on left side.
197+67.0
198+02.6 P.I. Δ 0°35' L.
Gravel Pits.
Gravel Pits
188 P.O.T.
210+88.0
201 to 213 Field of Winter Wheat on right.
All shale excavation between Sta. 194+25 and 203+00 is to be wasted as directed by the engineer.
The work required on fences is shown in table on sheet #2 A
Construct new fences on right of way lines.
5240
5250
5260
5270
5280
5290
5300
5310
5320
5330
5340
5350
5360
5370
180
185
190
195
200
205
210
400' V.C.
54.66 V.C.
P.I. 52.98
+0.25%
60.18
+3.6%
70.98
P.I. 81.26
84.33 V.C.
600' V.C.
02.78
F.L. 89.0
+7.0%
37.78
Surface of shale
P.I. 58.78
48.33 V.C.
600' V.C.
41.98
-5.6%
13.98
400' V.C.
03.81 V.C.
P.I. 02.78
-3.54%
95.20
Overhaul on Waste
1317 Sta Yds
Special Overhaul
Sta. 199+40 to Sta 171+30 = 263 Yd Miles
8080
9783
1744
611
2599
1033
2604
10830
3
8173
52880

PLAN		BY	DATE
NOTE BOOK NO. 2019/1940	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE		BY	DATE
NOTE BOOK NO. 2019/1940	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
	GRADES CHECKED		
	B. M.S NOTED		
	STRUCTURE NOTAT'NS CH'KD.		

PLATE 1-PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS.
3	COLO.	251C	16	

Rev. 6-22-28 H.O.W.
" 6-28-28 "

Note:- A temporary connection with present road from Sta. 215+00 will be constructed by State Forces.

Sta. 215+00 to 230+00 F.A.P. 251 Sec. D Not included in F.A.P. 251 Sec. C

231+00 to 239+80 Reqd. to move ditch off right of way, 80 Cu. Yd. Com. Exc.

EQUATION 235+68.8 Back = 239+19.6 Ahead.

PLAN		BY	DATE
	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
NOTE BOOK NO. 2019 1942 1940	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
NOTE BOOK NO. 1940 1941	GRADES CHECKED		
	B. M.S. NOTED		
	STRUCTURE NOTAT'NS CH'KD.		

PLATE 1—PLAN-PROFILE G. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
NO. 1941	PLOTTED	H.O. Wagner	6-11-28
	GRADES CHECKED		
	B. M.S. NOTED		
	STRUCTURE NOTAT'NS CH'KD		

PLAN		BY	DATE
NOTE BOOK	SURVEYED		
NO. 1942	PLOTTED	H.O. Wagner	6-11-28
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

EUGENE DIETZGEN CO. CHGO. N.Y.

PLATE 1-PLAN-PROFILE B.P.R. STANDARD

N. 89° 59' E.
234+63.6 P.I. Δ 0°02' L
NW4 Sec. 36
SW4 Sec. 25
+63.6
235
EQUATION 235+68.8 Back=239+19.6 Ahead.
+68.8 =
+19.6
School
240
241 +24.5 P.O.T.
Cor. 19.76
36'
32'
241+18 In place 1.5'x1'x42.6' Wood. Box
Reqd. to remove and place 18"x70' C.M.P.
80' Header and 72 Cu.Yd. Bor.
241+18 Reqd. 15"x70' C.M.P.
112' Header and 65 Cu.Yd. Bor.
N. 89° 57' E.
NE4 Sec. 36
T.1N. R.70W.
SE4 Sec. 25
241+50 to 248+40 Ditch to be abandoned.
Cottonwood Trees.
1'x1' Ditch
245
N
House
U.S.M.
34'
248+65 Reqd. 18"x30' C.M.P.
32' Header and 24 Cu.Yd. Bor.
29'
250
House
251+53 Reqd. 18"x30' C.M.P.
32' Header and 22 Cu.Yd. Bor.
Barn
Barn.
251+53 Reqd. 15"x30' C.M.P.
32' Header and 22 Cu.Yd. Bor.
U.S.M.
1'x1' Ditch
249+00 to 257+20 1'x1' ditch to be moved
off right of way by owner.
Power Line
Telephone Line
32'
255
U.S.M.
254+97 Reqd. 15"x30' C.M.P.
32' Header and 28 Cu.Yd. Bor.
House
28'
255+85 Reqd. 18"x30' C.M.P.
32' Header and 17 Cu.Yd. Bor.
House
10+00
-1.5%
Channel
10' Bottom
Dry Creek
28'
Sign
256 to 260 Reqd. to fill old channel
500 Cu.Yd. Bor. and rebuild 300' of
barbed wire fence, without Fed. Aid.
P.C. 2+57.3
P.I. 2+93.
Δ 7°08'
T 35.7
P.T. 3+28.6
259+93.3 Reqd. Double 10'x4'x50' Conc. Culvert, Type 10-A,
and 685' Channel Change 1100 Cu.Yd. Com. Exc.
to be used in old channel. See sheet No. 8
259+93.3 ℄ Highway = 4+36.0 ℄ Channel Change.
260+40 Reqd. to remove concrete
bridge in place.
37°0'
24'
30'
4 Sign.
6+85
260 to 262+ Reqd. 160' New Barbed Wire
Fence west of new channel, without Fed. Aid.
Place dirt from new channel on East
side and all rock over 4" in diameter
on West side. Rock to be used as rip-rap
by owner.
264+64 In place 1'x1'x40' Wood Box
Reqd. to remove and place 18"x18"x30'
Concrete Culvert at +70
265
N. 89° 57' E.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	251-C	17	

Rev. 6-22-28 H.O.W.

PROFILE		BY	DATE
	SURVEYED		
NOTE BOOK	PLOTTED	H.O.Wagner	6-11-28
NO. 1941	GRADES CHECKED		
	B. M.S. NOTED		
	STRUCTURE NOTAT'NS CH'KD		

PLAN		BY	DATE
	SURVEYED		
	PLOTTED	H.O.Wagner	6-11-28
NOTE BOOK	ALIGNMENT CHECKED		
NO. 1942	RT. OF WAY CHECKED		

267+70 In place 20"x 23.4' Concrete Pipe. Reqd. to be removed and place 18"x18"x40' Concrete Culvert.

268+00 Reqd. 15"x 30' C.M.P. 32' Header and 12 Cu.Yd. Bor. for road approach.

271+24 In place 6.3'x1.85'x25.6' Concrete Box Reqd. to be removed and place a 6'x3'x32' Conc. Culv.

271+74 Reqd. 15"x 30' C.M.P. 48' Header and 13 Cu.Yd. Bor.

273+50 Reqd. Concrete Diversion Box in new ditch. to be built without Fed. Aid. See Sheet No. 3

273+81 Reqd. 15"x 30' C.M.P. 32' Header and 2 Cu.Yd. Bor.

279+50 Reqd. to remove old tree stump without Fed. Aid.

273+35 to 292+35 Reqd. to move 2'x1' ditch off of right of way. 200 Cu.Yd. Com. Exc.

286+07 Reqd. 15"x 30' C.M.P. 32' Header and 20 Cu.Yd. Bor.

290+70 Reqd. to remove tree. without Fed. Aid.

292+08 Reqd. 18"x49' Concrete Siphon H=3.0 Concrete Diversion Box on north. to be built without Fed. Aid. See Sheet No. 3

292+35 Reqd. to remove 12"x22.5' Conc. Pipe.

292+08 to 293 Reqd. new ditch to be built by State Forces, without Fed. Aid. 20 Cu.Yd. Com. Exc.

293+64 In place 23' of 10"&12" Vit. Pipe Reqd. to remove and place 18"x18"x34' Conc. Culvert

294+20 Reqd. 15"x 30' C.M.P. 32' Header and 20 Cu.Yd. Bor. for road approach.

294+20 Reqd. 48' Header. and 20 Cu.Yds. Bor. for road approach.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS.
3	COLO.	251-C	18	

Rev. 6-22-28 H.O.W.

MICROFILMED

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
NOTE BOOK	GRADES CHECKED		
NO. 1941	B. M.S NOTED		
	STRUCTURE NOTAT'NS CH'KD.		

PLAN		BY	DATE
	SURVEYED		
	PLOTTED	H.O. Wagner	6-11-28
NOTE BOOK	ALIGNMENT CHECKED		
NO. 1942	RT. OF WAY CHECKED		

NW¼ 31
SW¼ 30
+08.2 P.O.T.
Cor. 0.35' No.
N. 89° 57' E.
NE¼ Sec. 31
SE¼ Sec. 30
House
297+06 Reqd. 15"x30' C.M.P. 32' Header and 22 Cu. Yd. Bor.
N
305+06 Reqd. 15"x30' C.M.P. 32' Header and 12 Cu. Yd. Bor.
Reqd. to move ditch off R. of W. by State forces, without Fed Aid 50 Cu. Yd. Com. Exc.
2'x1' Ditch.
U.S.M.
307+06 Reqd. 32' Header and 10 Cu. Yd. Bor.
306+92 Reqd. 32' Header and 10 Cu. Yd. Bor.
307+28 In place 3'x2'x28' Conc. Culv. in good condition.
Reqd. to reinforce paving slab over culvert as per sheet 3
Marshallville Ditch
307+59 In place 30"x44' C.M.P. Reqd. to be removed and place 6'x3'x50' Concrete Culvert.
310+10 Reqd. 32' Header and 13 Cu. Yd. Bor.
310+61 Reqd. 32' Hdr. & 13 Cu. Yd. Bor.
310+76 Reqd. 32' Hdr. & 13 Cu. Yd. Bor.
310+93.7 P.I. Δ 0° 07' L.
Water Pipe
Anderson Lat.
311+08 Water Pipe in place Reqd. to be protected during construction at contractor's expense.
311+21 In place 12"x25' Conc. Pipe Reqd. to remove and place 18"x49' Conc. Siphon H = 3'
311+89 Reqd. 32' Hdr. & 10 Cu. Yd. Bor.
311+89 Reqd. 15"x30' C.M.P. 32' Hdr. & 15 Cu. Yd. Bor.
N. 89° 50' E.
310+90 to 320+20 Reqd. to move ditch off of right of way by State Forces, without Fed. Aid. 200 Cu. Yd. Com. Excav.
2'x2' Ditch.
Sign
NE¼ Sec. 31 T.1 N. R.69 W.
320+33 In place 24"x28' C.M.P. Reqd. to remove and place 3'x3'x48' Conc. Culv.
SE¼ Sec. 30
320+33 Reqd. 6 Sq. Yds. plain rock slope paving 1 ft. thick at outlet. Use material from old headwalls.
+39.5 P.O.T.
Davidson Waste Ditch 20'x10'
Cor. 1.3' So.
320+64 Reqd. 32' Hdr. 26 Cu. Yd. Bor.
320+75 Reqd. 32' Hdr. 17 Cu. Yd. Bor.
NW¼ Sec. 32 T.1 N. R.69 W.
321+10 Reqd. Remove old culv. and place 18"x18"x32' Conc. Culv.
SW¼ Sec. 29
323+00 to 324+38 Reqd. to move ditch off of right of way by State Forces, without Fed. Aid. 40 Cu. Yd. Com. Exc.
323+16 Reqd. 15"x30' C.M.P. 32' Hdr. and 10 Cu. Yd. Bor.
323+17 Reqd. 32' Hdr. 13 Cu. Yd. Bor.
324+38 In place 12"x40' C.M.P. Reqd. to remove and place a 18"x18"x32' Conc. Culv.
FED. ROAD DIST. NO. 3
STATE COLO.
FED. AID PROJ. NO. 251C
SHEET NO. 19
TOTAL SHEETS
Rev. 6-22-28 H.O.W.
331+85 In place 12"x39' C.M.P. Reqd. to be removed and place a 1'x2.5'x30' Conc. Culv. See Sheet No 7
331+85 to 333+60 Reqd. to move ditch off right of way by state forces, without Fed. Aid. 50 Cu. Yd. Com. Exc.
333+43 Reqd. 32' Hdr. & 12 Cu. Yd. Bor.
333+60 In place 42' of 18" & 21" Vit. Tile Pipe. Reqd. to be removed and place 2'x2'x40' Conc. Culv.
335+39 Reqd. 15"x30' C.M.P. 32' Hdr. and 13 Cu. Yd. Bor.
335+39 Reqd. 15"x30' C.M.P. 32' Hdr. and 13 Cu. Yd. Bor.
5'x2' Ditch.
337+43 Reqd. 32' Hdr. & 13 Cu. Yd. Bor.
337+67 In place 15"x12"x27.4' Reqd. to remove and place 18"x18"x30' Conc. Culv.
337+70 to 338+85 Reqd. to move ditch off right of way. 30 Cu. Yd. Com. Exc.
Agitator Ditch
340+60 Reqd. 15"x30' C.M.P. 32' Hdr. and 30 Cu. Yd. Bor.
340+70 In place 5.6'x1.8'x24.5' Conc. Box Reqd. to remove and place a 6'x2'x30' Conc. Culv. A special diversion box on south is to be built without Fed. Aid. See Sheet 3 for diversion box " " 6 " conc. culv.
Riley Lateral
Ewing Lateral
337+54 to 359+60 Reqd. to move ditch off right of way 860 Cu. Yd. Com. Exc.
337+54 to 343+75 Reqd. to line new ditch with concrete without Fed. Aid. See Sheet #3
NW¼ Sec. 32
SW¼ Sec. 29
345+25 to 347+25 Reqd. 18"x200' C.M.P. for new ditch to be placed without Fed. Aid.
346+09 Reqd. 15"x30' C.M.P. 32' Header and 15 Cu. Yd. Bor.
346+90 Reqd. 15"x50' C.M.P. 64' Header and 20 Cu. Yd. Bor.
+90.7 P.O.T.
Cor. 3.5' So.
346+98 Reqd. 15"x30' C.M.P. 32' Header and 15 Cu. Yd. Bor.
346+98 In place 18"x18' Iron Pipe Reqd. to be removed
NE¼ Sec. 32
SE¼ Sec. 29
340+70 to 359+40 Reqd. to move ditch off right of way. 975 Cu. Yd. Com. Exc.
3'x2' Ditch.
5'x2' Ditch.
N. 89° 50' E.
5250
5260
5270
5280
5290
295
300
305
310
315
320
325
330
335
340
345
350
355
P.I. 57.45
57.71 V.C.
200' V.C.
58.75
P.I. 67.85
P.I. 78.45
P.I. 79.75
79.35 V.C.
79.65
P.I. 75.25
75.65 V.C.
76.45
80.05
80.93 V.C.
P.I. 81.25
81.35
P.I. 82.25
82.0 V.C.
82.15
P.I. 78.65
78.74 V.C.
100' V.C.
78.55
79.10
P.I. 77.25
77.35
77.0
-0.4%
+1.8%
-0.2%
-0.9%
-0.5%
103
130
16
3104
3337
2019
1930

PLATE 2—PLAN-PROFILE C. P. R. & E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.