FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1/	MONT.	76		1	34

7/22/21

INDEX OF SHEETS

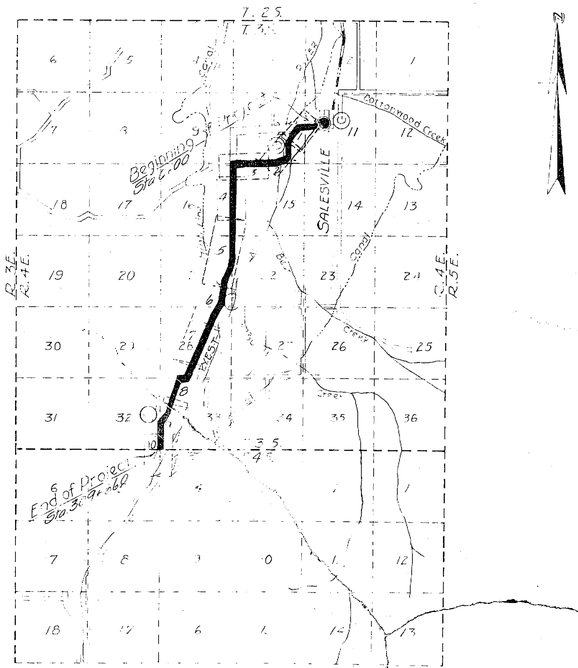
AGE . . . . . SHEET No. 1
CROSS-SECTION
OVEMENT . . . SHEET No. 2
D PROFILE . . . SHEET No. 3-12
ECTIONS . . . . SHEET No. 13-31
RY SHEET . . . . SHEET No. 2
CURVE . . . . . SHEET No. 32-34
L BRIDGE . . . . SHEET No. _____

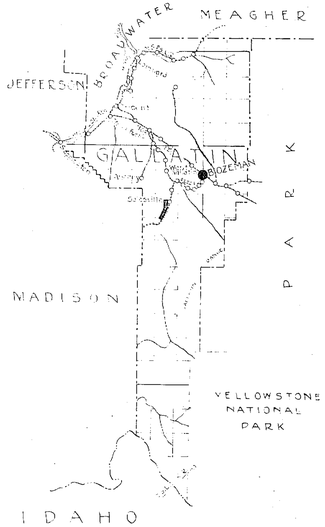
STATE OF MONTANA
STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. 76.
GALLATIN CANYON ROAD
GALLATIN COUNTY

LENGTH 5.78 MILES

[illegible] MILES
[illegible] Linear Feet
[illegible] Feet
[illegible] Linear Feet





MAP OF COUNTY
Showing Location of Project No. 76

CONVENTIONAL SIGNS

State and National Line	Levee
County Line	Culverts
City, Village or Borough Line	Drop Inlet
Township Line	Trolley Pole
Section Line	Power Pole
Reservation Line	Telephone or Telegraph Pole
Fence Line	Marsh
Guard Rail	Ditch
Unfenced Property	Rip Rap
Right of Way Line	Leaching Basin
" " " " Fenced	Bridge
Traveled Way	Proposed New Culvert (Profile)
Railroads	
Retaining Walls	
Base or Survey Line	

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER, DISTRICT No. 1
BUREAU OF PUBLIC ROADS

APPROVED
STATE HIGHWAY COMMISSION OF MONTANA

CHIEF ENGINEER

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER
BUREAU OF PUBLIC ROADS

APPROVED

STATE HIGHWAY COMMISSIONER

APPROVED

DIRECTOR
BUREAU OF PUBLIC ROADS

F.A. Pr. #76 Gateway to Gallatin Canyon 1921

SHT. NO.	TOTAL SHTS.	PROJ. NO.	FED. AID PROJ. NO.	STATE	DIST.	CONT. NO.
11	16					34

7/22/21

Summary of Quantities

Earthwork

Station From	Station To	Embankment Actual	+Shrinkage	Excavation Borrow	Common	Intermediate	Rock	+Swell	Overhaul	Waste
0	10	1097	1207	1054	153					
10	22	3081	3389	3243	146					
22	35	888	977	57	920				140	
35	53	980	1078	281	797					
53	61	276	304	243	61					
61	74	242	266	2	264					
74	90	209	230	34	196					
90	108	673	740	295	428				40	
108	120	260	286		303				110	
120	131	743	817	639	178					
131	145	299	329	00	354				250	
145	160	372	409	165	185					
160	171	536	590	437	153					
171	192	606	667	350	403					
192	211	746	821	350	376	92			110	
211	222	369	406		337	82			30	
222	238	750	825	200	439	112			55	
238	254	605	665	85	475	75			75	
254	266	492	541	300	400				40	
266	282	652	717	188	451				50	
282	301	1026	1129		954				640	
301	309+66	404	444		538	95				53 ← Use in fill at end of project
		15306	16837	7923	8511	456			1540	53

Surfacing:

Length of Project: 309+66 Stas.
Deduct:
Equation 465'
Bridges 148'
613

Linear Ft. Surfacing: 30,353'

Cu. Yds. Gravel Compacted
Loose Measure 5846

Clearing:

Stas. 13+50 to 17+00
23+50 to 30+00.
60' wide = 60000 Sq.Ft.
= 1.38 Acres

Guard Rail:

Stas. 14+60 to 17+60 Both Sides 600 Lin.Ft.
" 19+10 to 23+10 " 400 "
1000 "
F.B.M. Lumber in Guard Rail 4686

GRUBBING

Sta 13+67 to 14+00
35+10 to 30+00
60' wide 42,000 Sq.Ft. =
0.96 ACRES.

Notes:

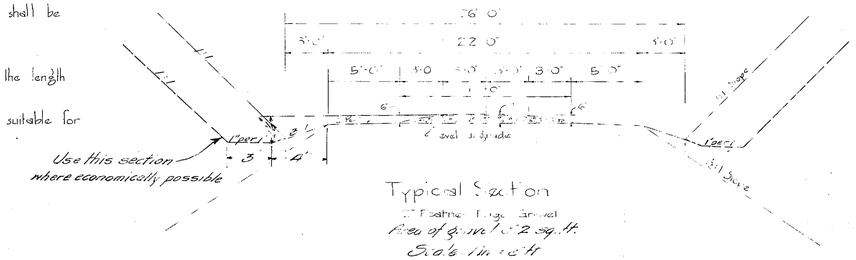
A 10% Shrinkage factor was used for earth in embankment.

The term borrow is used to indicate the location where a shortage of material occurs. The location of borrow pits shall be designated by the Engineer.

The Free haul limit is 400 Ft.

The length of culverts as given on these plans is the length between outside faces of headwalls.

Wherever possible excavation from side drainage ditches, suitable for embankment, will be used in place of borrow.



Typical Section
Stations Forge Gravel
Area of gravel = 2 sq. ft.
Scale 1 in. = 5 ft

DRAINAGE STRUCTURES

STATION	PIPE CULVERTS 18"	PIPE CULVERTS 24"	GIBSON CULVS. USED IN PLACE SIZE	GIBSON CULVS. USED IN PLACE LENGTH	CU YDS CLASS 'B' CONC	REIN. CONCRETE BOXES SIZE	LENGTH	STD	CLASS A CONC. C.Y.	LBS STEEL	REMARKS
9+11		32'			1.98						
12+53		30'			1.98						
27+00		26'			1.98						
35+00	28'				1.34						
35+40		26'			1.98						
51+21	26'				1.34						
79+00	26'				1.34						
101+00			2'x5'	24'	3.62					120	
121+07			1.1'x1.6'	24'	1.55						
126+44			1.1'x1.4'	24'	1.55						
128+84			1.5'x2'	24'	2.28						
145+23			0.9'x1.4'	24'	1.55						
161+70			1.5'x2'	24'	2.28						
171+75	26'				1.34						
175+68	26'				1.34						
194+17			2'x5'	24'	3.62					120	
199+82	26'				1.34						
211+45	26'				1.34						
222+50	26'				1.34						
235+00	28'				1.34						
239+17	26'				1.34						
254+35						1.5'x2'	26'	C-A	7.0	318	
267+13	26'				1.34						
276+80	26				1.34						
283+00			1.5'x2.8	24'	2.47						
289+47			1.5'x2.1	24'	1.55						
298+20	26'				1.34						
309+66	26'				1.34						
TOTALS	368'	114'			47.15		26'		7.0	558	

PIPE SIPHONS

STA	18"	Class A Conc.	Lbs Steel
288+18	28'	7.9	304
299+20	28	7.9	304
306+00	28	7.9	304
TOTALS	84'	23.7	912

BRIDGES

STA	To	Length	Type	Class A Conc.	Steel	Remarks
Tr 62	19+10	1-18'	Steel Stringer			To be removed from Central Park & erected by the County.
182+57		2-'	Std modified	61	6820	44 lin ft rein. conc railing

SHEET NO. 11 of 76 3 34

7/22/21

T35, R4E
Sec. 11
Sec. 10
Sec. 11
Sec. 10

Sta 0+00
BEGINNING OF PROJECT

East Channel
West Gallatin

102' steel bridge
16' roadway; wood floor, oak curbs
(open)

Bank protection, rock filled cribs, piling & willow mat

S 89°47' W

10

Pt 12+42.0

Old woodbridge
4-12' openings, Capacity with 24"-30" pipes each M6 or equiv area.

Old 4'x10' opening, earth walls, wood floor, Capacity with 24"-30" pipe each M6 or equiv area.

Pt 13+34.5

Δ 4°30' L
D 2°
T 112.5
L 225.0
R 2864.9

15

S 86° 11' W

Scattered Willows

Equality

Pt 16+26.7

River

Δ 76°44' L
D 19°
T 238.7
L 403.9
R 301.6

20

Pt 21+30.6

Grain Field

30

S 61°43' W

Willows

New 24"-26" pipe culv.
M 6 Drainage

148'-16' steel span bridge to be removed from Central Park & erected by County

West Gallatin

14+60 to 17+60
Std guardrail
Both sides

19+10 to 21+10
Std guardrail Both sides

Pt 21+65.4

Common Exc 153 Cu Yds.
Emb = 10% 1207 " "
Borrow 1054 Cu Yds

Common Exc 146 Cu Yds.
Emb. = 10% 3389 "
Borrow 2248 C.Y.

Common Exc 920 Cu Yds.
Emb. = 10% 977 "
Borrow 995 C.Y.

0+11 to 30+00 Std Yds.

Note: Grade between Sta 0+15 subject to be raised to elevation 98.0 during construction.

Wall Ditch Beginning at Project

Sta 0+11 Existing 4'x10' Opening
Replace with 24"-32" pipe culv.
15° skew

Sta 1+53 Existing 4'x12' Opening
Replace with 24"-30" pipe culv.
90° skew

Sta 9+10 to 7 Std guardrail Both sides

Sta 19+10 to 21+10 Std guardrail Both sides

-1.00%
-0.20%
30%
0.27%
+0.18%
+1.50%

Pt 13+34.5
R 2864.9

Pt 21+65.4
R 301.6

Pt 12+42.0
R 2864.9

Pt 23+30.6
R 301.6

Pt 16+26.7
R 301.6

Pt 14+60
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NOTE BOOK GRADES CHECKED
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BY DATE

P.I. 46+90
Side Ditch
S 18° 12' W
Swampy
Δ 71° 20' Rt
D 14°
T 243.7
L 509.5
R 409.3
P.C. 43+46.3
P.T. 49+05.8
P.I. 41+00
Δ 27° 50' Rt
D 10°
T 142.0
L 278.3
R 573.0
P.C. 42+34.8
P.T. 39+56.8
S 89° 32' W
12' Gibson culv. Replace with 18", 26' pipe culv. M 6 Irrig.
T. 35 S., R. 4 E.
SEC. 15
SEC. 10
S 9° 12' E
P.I. 35+76.0
P.T. 35+57.0
Δ 16° 11' L
West D 5° Gallatin
T 103.9
L 363.6
R 1041.8
New 24", 26' pipe culv. M 6 Drainage
Fish Pond
New 18", 28' pipe culv. M 6 or equiv. area
P.C. 31+93.4
West Fork
S 6° 33' W
Side Ditch
N

Common Exc. 920 Cu. Yds.
Emb. + 10% 977 " "
Borrow 338 C.Y.
Common Exc. 797 Cu. Yds.
Emb. + 10% 1078 " "
Common Exc. 61 Cu. Yds.
Emb. + 10% 304 " "
Borrow 243 C.Y.

O.H.
Old Fish Pond
+0.60%
+0.90%
+1.30%
-0.20%
+0.50%
+0.40%
200' V.C.
Side Ditch Grade Lvl.
Pond Fill Grade
Pond Fill Grade
Pond Fill Grade

11 | 76 | 5 | 34

7/22/121

PLAN
SURVEYED
PLOTTED
NOTE BOOK ALIGNMENT CHECKED
NO. RT. OF WAY CHECKED
BY
DATE

60 65 70 75 80 85 90

N

S 89° 32' W

Δ 90° L
D 10°
T 573.0
L 900.0
R 573.0
Use on construction

EQUATION →
PT 79+61.5
89+31.5

T.35
Sec. 15
R.4E.
Sec. 16

Δ 90°
D 20°
T 214.7
L 321.4
R 204.6

PT 74+00

New 18" 26' pipe culv. M.6 or equiv. area Drainage.

78+45.6 at 11 sec cor. 2" IRON PIPE

Sec. 10

CANYON

Sec. 9

PROFILE
SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
NO. B. M.'S NOTED
STRUCTURE NOTATIONS CHKD.
BY
DATE

COMMON EXC. 269 Cu. Yds.
EMB + 10% 260 "

COMMON EXC. 196 Cu. Yds.
EMB + 10% 230 "

BORROW
+3A CY

150 140 130 120

+0.20%
+1.00%
+0.20%
+0.60%
+0.20%
1.6%
+0.94%
Construction Grade
+0.075%
+1.1%
+0.738%

Adjust to Fit Field Cond.

Adjustment to fit field conditions

EQUATION
SHORT STATION
130'

60 1 2 3 4 65 6 7 8 9 70 1 2 3 4 75 6 7 8 9 80 5 6 7 8 9 90

76 6 34

7/22/21

SEC. 15 T. 35., R. 4 E.

90 95 100 105 110 115 120

5'-3" Conc. Arch Cl. IV, 24" RCP, Drainage Use in Access Contr. and see sht. no. 15.

S 60° 24' E

SEC. 16 T. 35., R. 4 E.

Z

COMMON Exc. 428 Cu. Yds.
EMB + 10% 740 "
BORROW 295 Cu. Yds.

Overhaul - 10 Sta. Yds.

COMMON Ex. 303 Cu. Yds.
EMB + 10% 286 "

O.H. 110 Sta. Yds.

+0.79%
+1.20%
+0.08%
+0.80%
+0.32%
+1.10%
+0.40%

170 160 150 140

90 1 2 3 4 95 6 7 8 9 100 1 2 3 4 5 6 7 8 9 110 1 2 3 4 115 6 7 8 9 120

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
STAKES CHECKED
BY
STRUCTURE NOTATIONS CH'KD.
DATE

PLAN
SURVEYED
PLOTTED
PROJ. 6228S
NO.
ALIGNMENT CHECKED
BY
PLAN TRACING CHK'D
DATE

PLATE PLAN OF R. & R. E. STANDARD
DETAILS CO. FOR WORK.

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
11	MONT.	TG		7	34

7/22/'21

PLAN — SURVEYED ____ BY ____ DATE ____ PLOTTED ____ ALIGNMENT CHECKED ____ RT. OF WAY CHECKED ____ NOTE BOOK ____ NO. ____

Old 1.1' x 1.5' x 24' Sec. Conc. Culv. Drainage. Use in place. Center and add hdwls.

Old 1.1' x 1.4' x 24' Sec. Conc. Culv. Drainage. Use in place. Center and add hdwls.

Old 1.5' x 2.0' x 24' Sec. Conc. Culv. Irrigation Use in place. Center and add hdwls.

Old 1.4' x 0.9' Sec. Conc. Culv. Irrigation Use in Place. Center and add hdwls.

SEC. 15 T. 3S. R. 4E.

SEC. 22, T. 3S. R. 4E.

SEC. 16, T. 3S. R. 4E.

Approx. Sec. Line

SEC. 21, T. 3S. R. 4E.

Borrow 158 Cu. Yds.

Com. Exc. 178 Cu. Yds. Emb. +10% 817 Cu. Yds.

Borrow 484 Cu. Yds.

Overhaul 185 Sta. Yds.

Com. Exc. 854 Cu. Yds. Emb. +10% 329 Cu. Yds.

Overhaul 145 Sta. Yds.

Borrow 165 Cu. Yds.

+0.40% G 0.3% +0.26% +0.50% +0.70% +0.40% +0.70% -1.0% +0.50% +1.04%

121+06.7 Old 1.1' x 1.6' x 24' Sec. Concrete Culvert Drainage. Use in place. Center and add hdwls.

B.M. #11 Nail in pole 1.4' S. of sta. Elev. 4623

126+44 Old 1.1' x 1.4' x 24' Sec. Conc. Culv. Drainage. Use in place. Center and add hdwls.

B.M. #12 Nail in telephone pole 1.4' E. of Sta. Elev. 4594.64

128+84 Old 1.5' x 2.0' x 24' Sec. Conc. Culv. Irrigation. Use in place. Center and add hdwls.

B.M. #13 Nail in fall pole 1.0' E. of Sta. Elev. 4615.22

145+23 Old 1.4' x 0.9' x 24' Sec. Conc. Culv. Use in place. Center and add hdwls.

120 125 130 135 140 145 150

190 180 170

PROFILE — SURVEYED ____ BY ____ DATE ____ PLOTTED ____ GRADES CHECKED ____ R. M.S. NOTED ____ STRUCTURE NOTATIONS CHECKED ____ NOTE BOOK ____ NO. ____

SEC. 22, T. 3S. R. 4E.

Approx. Line (Sec)

Pl. 161+81.7

Pt. 162+14.5

S 00° 28' E

S 18° 32' W

Δ = 13° 00' R
D = 2° 44'
T = 79.40
L = 155.2
R = 2091.8

Δ = 17° 45' L
D = 2° 44'
L = 651.3'
T = 328.3'
R = 2096.4'

Use on Construction

15'x 20' x 24' Sec. conc. culv. Use in place. Irrig. Center and add hdwls.

Barn

Sheds

House

SEC. 21 T 3S R 4E.

Sec. Concrete Culvert 10'x 0.7' x 24' Replaced By new 18' x 26' Pipe M & or equiv. area.

Sec. Concrete Culvert 10'x 0.7' x 24' Drainage Replace With new 18" C.M. pipe M & or equiv. area.

Pt. 174+25.1

Pt. 178+03.2

150 155 160 165 170 175 180

210 200 190 180

+1.04% G 0.8% +0.67% +1.20% +1.51% +0.93% +1.60%

Com. Exc. 185 Cu. Yds. Emb. 10% 204 " "

Com. Exc. 33 Cu. Yds. Emb. 10% 590 " "

Com. Exc. 403 Cu. Yds. Emb. 10% 661 " "

Borrow 150 Cu. Yds.

Pt. 161+44.4 +50

Pt. 162+94.4

Pt. 178+03.2 +25

200+70 +75 203+40 +75 204+80 +75 265+10 +75

161+72 Old 1.1' x 1.4' x 24' Sec. Conc. Culv. Drainage. Use in place. Center and add hdwls.

175+68 Sec. conc. culv. 10'x 0.7' x 24' Drainage Replace with new 18" C.M. pipe M-6 or equiv. area.

Pt. 31%

+0.92%

+1.60%

Pt. 92%

B.M. #14 Nail in pole 1.0' E. of Sta. Elev. 4677.15

B.M. #15 Nail in pole 1.0' E. of Sta. Elev. 4677.15

B.M. #16 Nail in pole 1.0' E. of Sta. Elev. 4677.15

B.M. #17 Nail in pole 1.0' E. of Sta. Elev. 4677.15

150 155 160 165 170 175 180

210 200 190 180

PLATE - PLAN & PROFILE U. S. B. P. R. STANDARD

BRIDGE & STRUCTURE CO. DENVER.

76 8 34

7/22/'21

PLAN — SURVEYED / PLOTTED / NOTE BOOK / GRADES CHECKED / R/W OR EASE. CHECKED / NO. / R/W OR EASE. STAKED / BY / DATE

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / GRADES CHECKED / NO. / STRUCTURE NOTES AS STAKED

Δ=12°45'
D=12°40'
T=50.6'
L=100.6'
R=452.4'

P.T. 181+76.2

P.I. 181+99.4

S 2.° 34' W

P.C. 182+66.8

P.T. 183+67.4

20' Span Steel I Beam & Concrete Bridge
Concrete Abutments
Replace with 20'-5"d. reduct.

Ditch

185

S 9° 49' W 199

Use 2' curve here

180

S 00° 44' W

Use this alignment on construction

2" Plank Flume (2"x3" Std 182+34-76)

P.I. 183+17.4

Ditch

Remove Bank

P.T. 182+47.5

P.C. 181+49.7

Δ= 21° 50' R
D= 22° 14'
T= 49.7'
L= 98.2'
R= 257.7'

Sec. 28 T. 3 S., R. 4 E.

S 26° 24' W
D
T 290.0
L 568.3
R 1146.0
Use for construction

P.C. 193+01.2

Δ= 28° 24' R
D= 12° 00'
T= 120.8'
L= 236.7'
R= 477.5'

P.T. 195+37.9

193+48 Old CI 1.5'x2.5'x27' Concrete curb culvert. Irrigation. Use by PMLC. Lengthen 2', center and add hdwls.

194+26

S 38° 13' W

200

193+88 Old CI 1.5'x1.5'x24' Gibson culvert. Replace by new 15" pipe M-6 or equiv. area.

P.I. 203+05.3 Gate

Δ= 28°12' L
D= 8°00'
T= 179.9'
L= 352.5'
R= 716.3'

Δ 18°21' L
D 5°
T 185.1
L 367.0
R 1146.0
Use on construction

P.C. 201+25.4

P.T. 204+77.9

Ditch

Small ditch

205

S 10° 01' W

S 19° 52' W

Construction Alignment

P.I. 209+45.5

210

S 33° 36' W

P.C. 208+65.7

P.T. 210+03.6

Δ= 23° 35' R
D= 20° 00'
T= 59.8'
L= 117.9'
R= 286.5'

Conn 203 C.Y.
Fnd 116% 662 C.Y.

Furnish 200 C.Y.

Use 2" Sand Cushion

Conn Exc. 376 C.Y.
Inf. " 92 C.Y.
Emb. 116% 851 C.Y.

Overhaul 30 S.T. 182

Overhaul 1.0 STA. 195

240
230
220
210

P.C. 12+11

P.I. 13+37

P.T. 13+73

P.I. 11+37

16.1

+1.40%

+1.60%

0.0%

+0.60%

200 V.C.

DEPTH BELOW TOP OF BOTTOM BRING CON. 182+47.6 182+76

BM #4 Nail in Base Right Sta 182+22 Elev 223.34

BM #5 Nail in Base Right Sta 182+76 Elev 223.72

+0.30%

+1.14%

106 K.C.

21.4

193+88 Old CI 1.5'x2.5'x24' Gibson Culv. Irrigation. Use in place. Lengthen 2', center and add hdwls.

+1.60%

+1.14%

24.7

+10.27.8

230.0

350

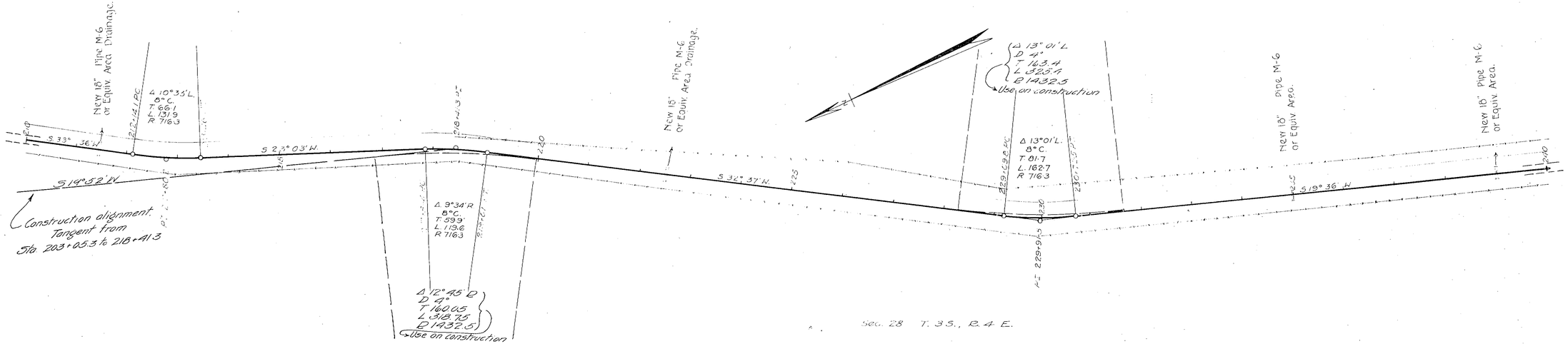
BM #4 Nail in Base Right Sta 195+26 Elev 229.72

BM #5 Nail in Base Right Sta 195+93 Elev 228.17

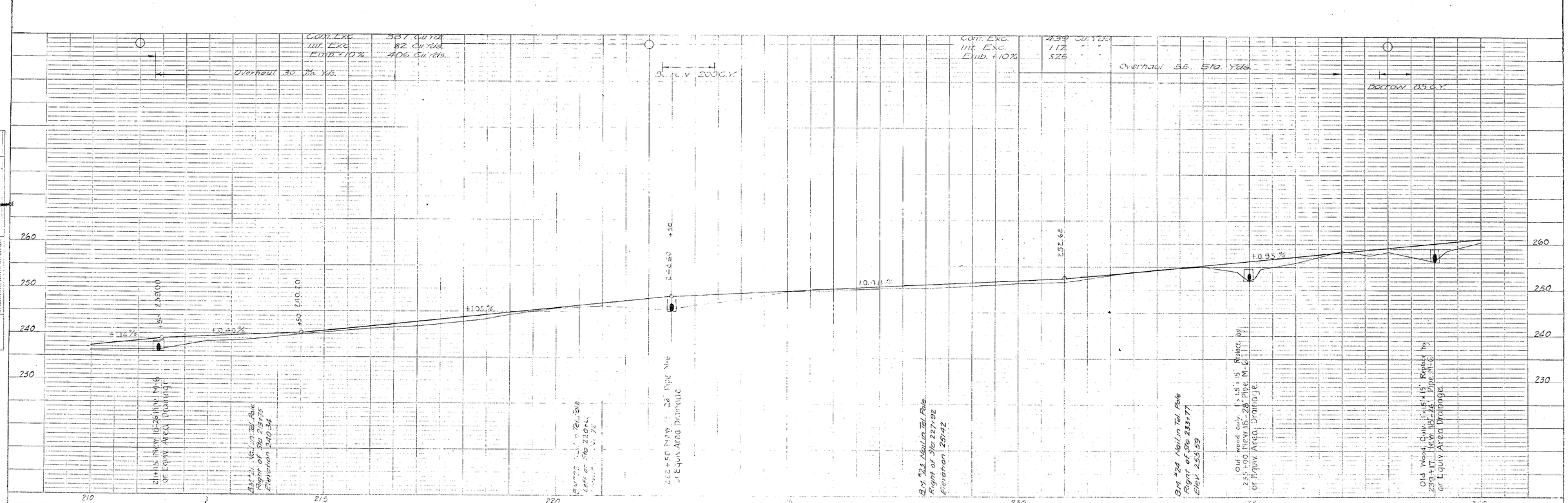
180
185
190
195
200
205
210

11 76 9 34

7/22/'21



Sec. 28 T. 3 S., R. 4 E.



11 76 10 34
7/22/'21

Sec. 28 T 3S. R 4 E.

Sec 33 T 3S R 4 E

Tot Walnut Grove Dist. No 1

Orchard

Δ 45°39' L
D 10°
T 241.16
L 456.5
R 573.0
Use on construction

Δ 54°16' R
25 C
T 127.7
L 225.9
R 249.1

Δ 35°38' R
D 10°
T 184.15
L 346.33
R 573.0
Use on construction

Ditch Change 1

S 53° 14' W

Δ 61°17'
T 25 C
T 156.5
L 279.2
R 249.1

Blacksmith Garage

Equation 253+00 Ahead = 253+00 Back

PT 250+49.9

EQUATION

New 1½ x 1½ x .46 Concrete Box C-4 Irrigation

S 9° 35' W

Δ 22° 22' R
5° C.
T 226.5
L 447.3
R 1146

PT 261+38.9

S 31° 57' W

See Cons. Survey 47.0+15.0

267 +18 - 1.4' x 1.9' - 19°
Sec Concrete Culvert
Replace by new 18' 26'
Pipe M-6 or Equiv. Area

Com. Exc. 975 C.Y.
Imb. 75 C.Y.
Emb. 110% 665 C.Y.

O.H. 75 Stk. Yds.

Equation 300 C.Y.

Com. Exc. 400 C.Y.
Emb. 110% 541 C.Y.

Overhaul 40 Sta. Yds.

+0.93%
+1.10%
+0.80%
+0.15%
+0.60%
+0.17%

Elev. 263.90
Elev. 267.18
Elev. 271.68
Elev. 274.2
Elev. 275.48
Elev. 277.66
Elev. 279.70
Elev. 282.0
Elev. 284.23

F.L. 54

0.0

200 V.C.

Replace By
Existing 24" x 24" Box Culvert
New 28.7" x 28.7" 70° Concrete Box Culvert
1½ x 1½ x .46 Irrigation

B.M. #25 Notch on top of Hydrant
Elev. 266.45

B.M. #26 Notch on Top of Pole
Left of P.I. Sta 261+38.9
Elev. 279.75

240 245 250 35 260 265 270

290 280 270 260

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
K.M. NO.
STRUCTURE NOTATNS CHKD.
DATE
BY
NOTE BOOK
NO.

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
DATE
BY
NOTE BOOK
NO.

LA 1 4 PROFILE P. R. & R. E. STANDARD
ALLER CO., NEW YORK.

11 76 11 34

7/22/21

PLAN
SURVEYED
PLOTTED
NOTE HOOK ALIGNMENT CHECKED
NO. RT. OF WAY CHECKED
BY
DATE

PROFILE
SURVEYED
PLOTTED
NOTE HOOK GRADES CHECKED
NO. B.M.'S NOTED
STRUCTURE FOOTINGS CHECKED
BY
DATE

Sec. 33, T 35, R 4 E.

Sec. 32, T 35, R 4 E.

1270

S 37° 51' W

Gate

273+87.7 PC

Δ 7°31' R
5°C.
T. 75.3
L. 150.3
R. 1146

275+38
275+88.3

275

EQUATION

Sec. Cont. Culvert
Replace by new 18"x26" Pipe
M.C. or Equiv. Area.

S 39° 28' W

280

Gate

1.5'x 2.8'x 23'
Sec. Conc. Culvert irrigation
Use in Place.
Center and add 1/4"/ft

285

286+82.4 PC

Δ 40°44' L
14°C.
T. 151.0'
L. 290.9
R. 410.3

289+34.1 PT

290

Δ 40°44' L
10°
T. 216.7'
L. 207.3'
R. 573.0'
Use on construction

Sec. Cont. Culvert
Replace by 18"x28"
Pipe Siphon

Old Gibson Culv.
1.5'x 2.7'x 24'
Use in place
Center and add 1/4"/ft

Section Lines

295

S 51° 16' E

Hogan Box Culv.
Drainage
7'x 2.0'
New 15' Area
Equiv. Area

Sec. Cont. Pipe
5'x 2.0'
Replace by
Siphon

300

Com. Exc.
Emb. 710%
451 Cu. Yds.
717 " "

Com. Exc.
Emb. = 10%
954 C.Y.
1129 " "

Overhaul 50 Sta. Yds.

Overhaul 400 Sta. Yds.

Overhaul 240 Sta. Yds.

Borrow
188 C.Y.

284.29
288.00
292.6
295.85
297.48
300.28

+1.06%
+1.31%
+1.63%
+2.80%
-1.02%
+1.10%

200' V.C.
300' V.C.
200' V.C.

P.C. 19.9
+50 24.1
P.T. 22.6
+75 P.C. 16.5
+75 P.I. 16.1
+75 P.T. 18.5
+25 P.C. 24.4

EQUATION
Short
Station
-8.97

275+38.1
275+88.3
2.75 Abd.

216+50 Sec. Concrete Culv.
0.7' x 1.0' x 22' Remove by new
18" Siphon Pipe of Equiv. Area

B.M. 5 ft. Chain in W. side of Telephone
Pole. 282+5 ± 4' W. 30.14

283+00 Old 1.5'x 2.8'x 24' Gibson
Culvert Irrigation. Use in Place.
Center and add 1/4" Ramp

288+18 Old 0.7'x 1.1' Gibson Culv.
Irrigation. Replace by 18" Siphon

B.M. #28
Corner Wooden
Post 19.2' W.

289+47 Old 1.5'x 2.8'x 24' Gibson Culv.
Use in place. Center and add 1/4" Ramp

B.M. #29
Nail in Sign Post
17.4' S. 51.9' E.

Old Hogan Culv. 1.5'x 2.0' Replace by
296 29' New 18"x 26"
Culvert Area

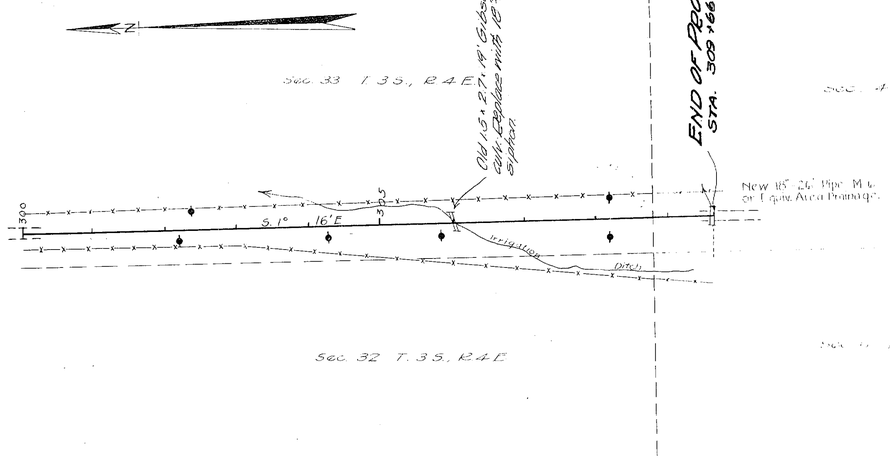
B.M. #30
Nail in Gate Post
21.4' S. 31.9' E.

299+22 Old 1.0'x 1.0'x 24' Gibson
Culv. Drainage. Replace with
18"x 28" Pipe Siphon

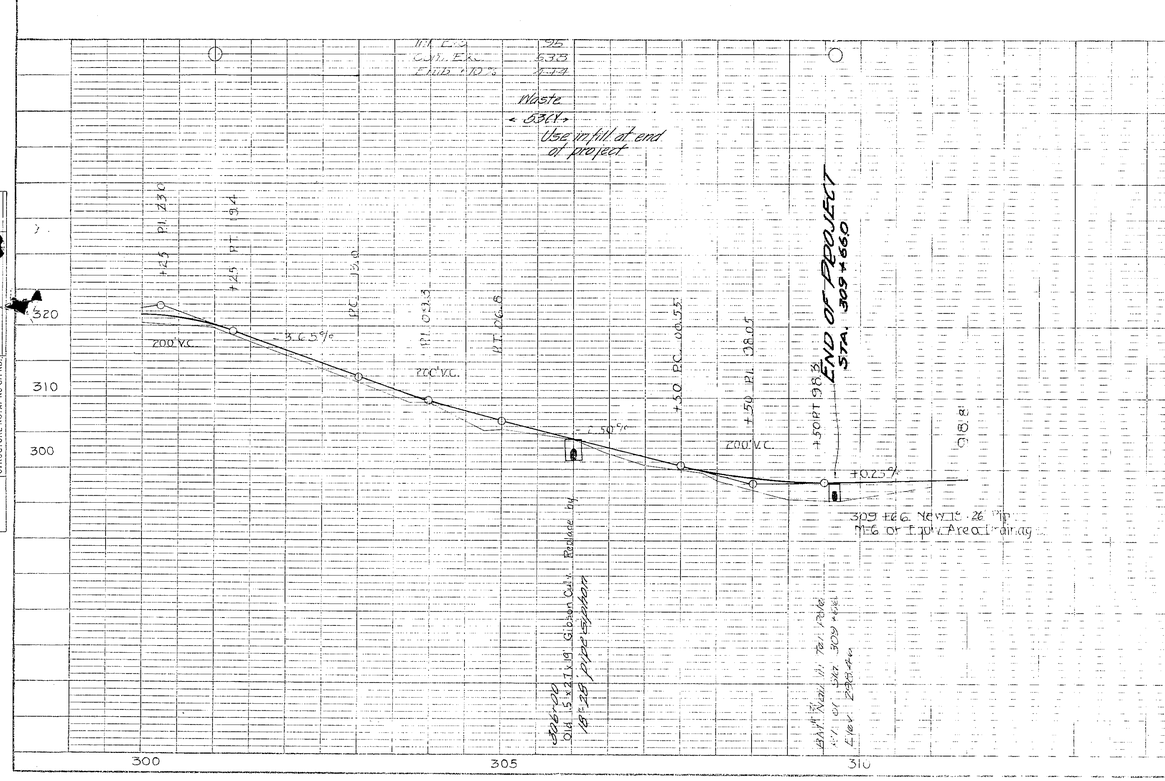
270 275 280 285 290 295 300

U. S. PLAT-PROFILE C. P. R. R. E. STANDARD

7/22/'21



PLAN
SURVEYED
PLOTTED
NOTE BOOK ALIGNMENT CHECKED
NO. BY WAY CHECKED
DATE
BY



PROFILE
SURVEYED
PLOTTED
NOTE BOOK CROSS CHECKED
NO. M.S. NOTED
STRUCTURE NOTATIONS CHKD.
DATE
BY