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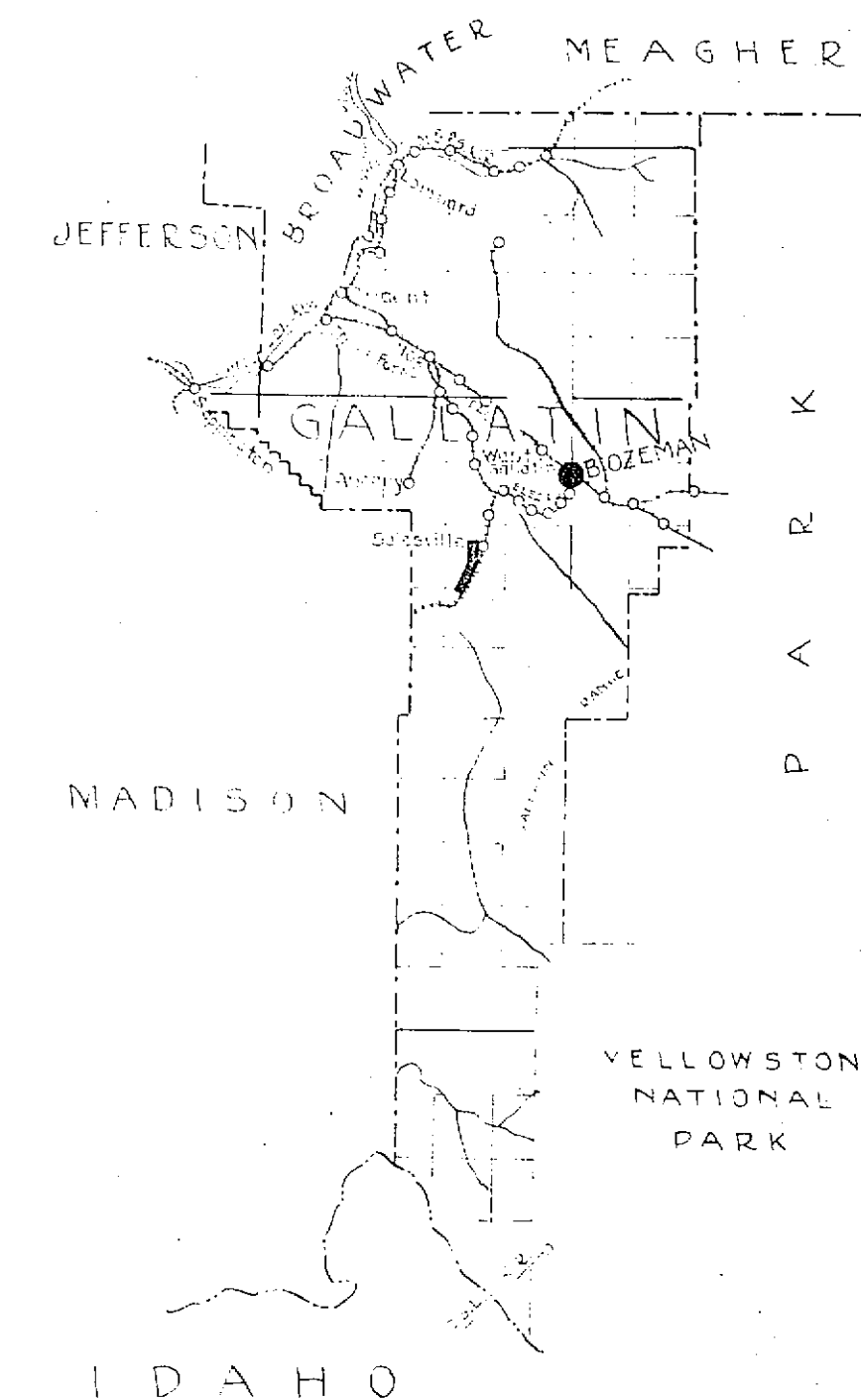
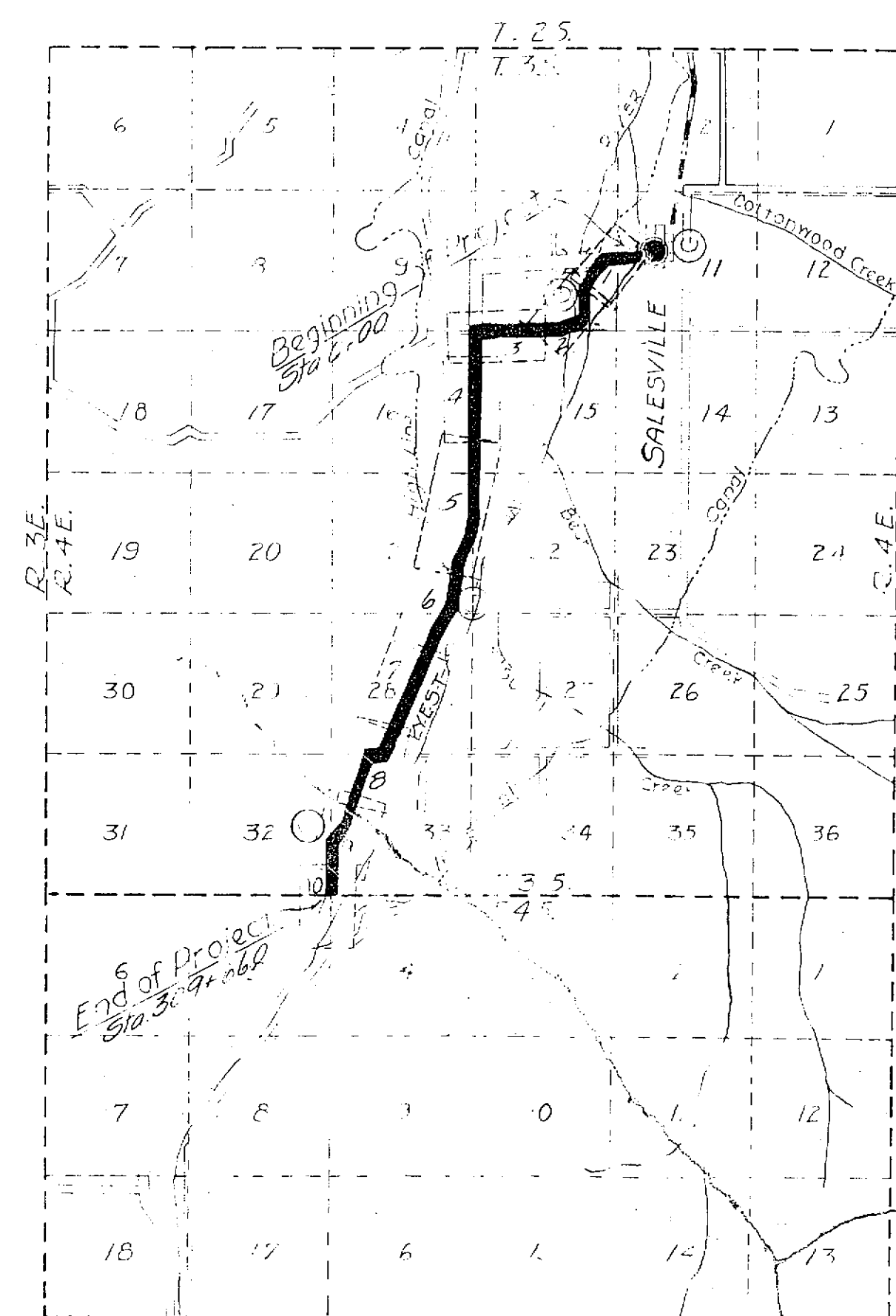
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STATE OF MONTANA STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 76 . GALLATIN CANYON ROAD GALLATIN COUNTY LENGTH 5.78 MILES

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

7/22/21



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	

APPROVED
STATE HIGHWAY COMMISSION OF MONTANA

CHIEF ENGINEER

APPROVED

STATE HIGHWAY COMMISSIONER

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER, DISTRICT No. 1
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER
BUREAU OF PUBLIC ROADS

APPROVED

DIRECTOR
BUREAU OF PUBLIC ROADS

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

Summary of Quantities

Earthwork									
Station		Embankment		Excavation					Waste
From	To	Actual	+ Shrinkage	Borrow	Common	Intermediate	Rock	+ Swell	
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	249	329	00	334				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			
		15306	16837	7923	8511	456			1540
									53

Surfacing :
Length of Project: 309+66 Stas.
Dyduct:
Equation 465'
Bridges 148'
613
Linear Ft. Surfacing : 36353'
Cu Yds. Gravel Compacted
Loose Measure 5846

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

Guard Rail :
Stas. 14+60 to 17+60 Both Sides 600 Lin. Ft.
14+10 to 2+10 400
Use in fill at end of project 1000
See profile F.B.M. Lumber in Guard Rail 4686

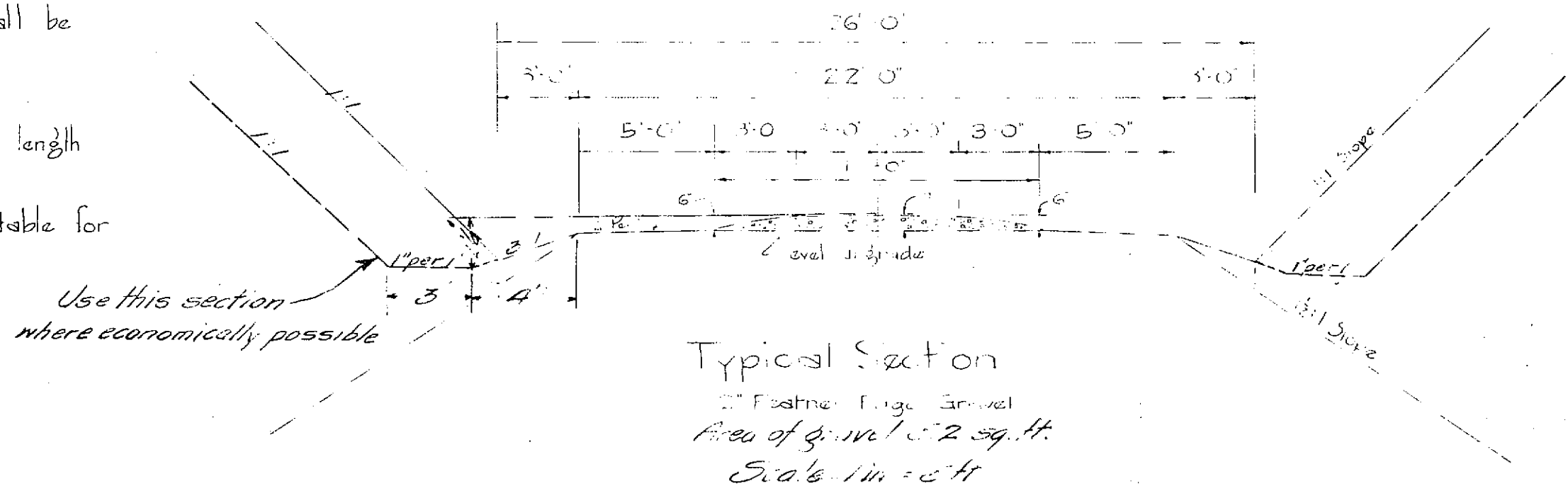
GRUBBING
Sta. 15+00 to 19+00
25+00 to 30+00
60' wide 42000 Sq. Ft.
0.96 Acres

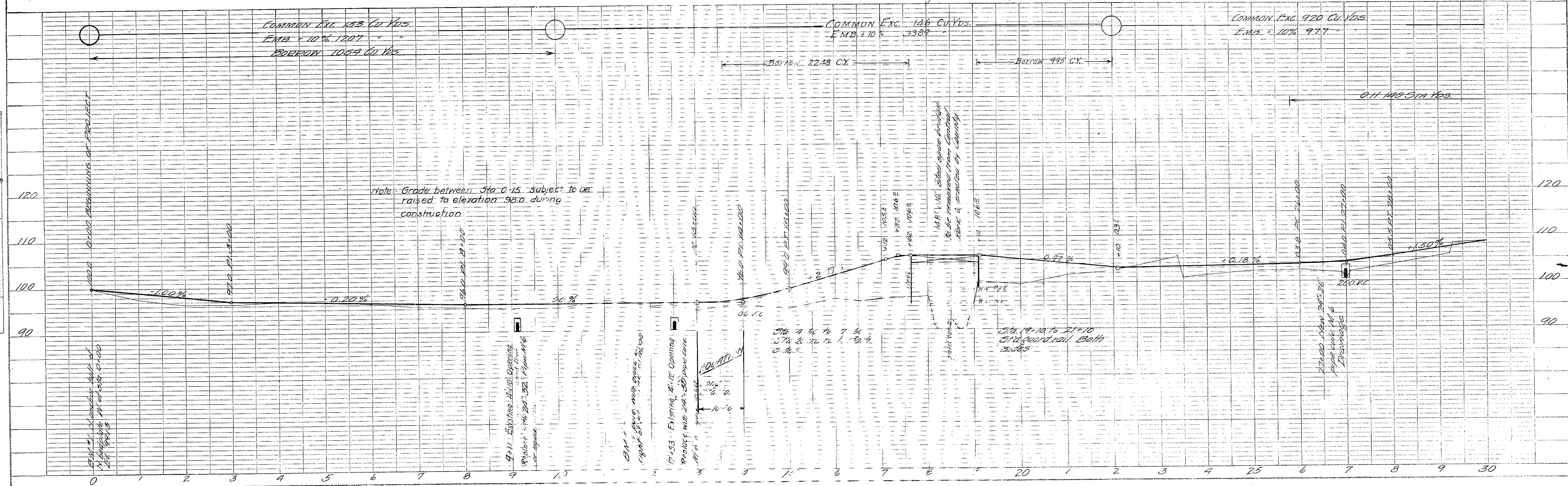
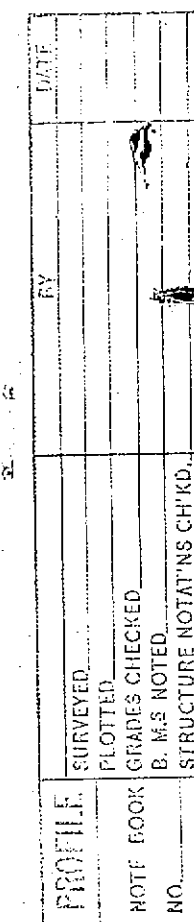
DRAINAGE STRUCTURES											
STATION	PIPE CULVERTS		GIBSON CULVS. USED IN PLACE		CU YDS CLASS "B" CONC	REIN. CONCRETE BOXES					REMARKS
	18"	24"	SIZE	LENGTH		SIZE	LENGTH	ST'D	CLASS A CONC. CY	LBS. STEEL	
9+11		32'			1.98						
12+53		30'			1.98						
27+00		26'			1.98						
35+00	28'				1.34						
35+40		26'			1.98						
51+21	26'				1.34						
74+00	26'				1.34						
101+00			2'x5'	24'	3.62					120	
121+07			11'x16'	24'	1.55						
126+44			11'x14'	24'	1.55						
128+84			15'x2'	24'	2.28						
145+23			09'x14'	24'	1.55						
161+70			15'x2'	24'	2.28						
171+75	26'				1.34						
175+88	26'				1.34						
194+17			2'x5'	24'	3.62					120	
199+88	26'				1.34						
211+45	26'				1.34						
222+50	26'				1.34						
235+00	28'				1.34						
239+17	26'				1.34						
254+36						15'x2'	26'	6'x4'	7'x6'	318	
267+18	26'				1.34						
276+50	26'				1.34						
283+00			15'x28'	24'	2.47						
289+47			15'x21'	24'	1.55						
296+24	26'				1.34						
309+66	26'				1.34						
TOTALS	368'	114'			47.15		26'		70	558	

PIPE SIPHONS			
STA	18"	Class 'A' CONC	Lab. Steel
288+18	28'	7.9	304
294+20	28'	7.9	304
306+00	28'	7.9	314
TOTALS	84'	23.7	912

BRIDGES						
Sta	To	Length	Type	Class 'A' Steel	Remarks	
17+62	19+10	148'	Steel girder		To be removed from Central Fork Co. erected by the County	
182+57		2'	Box culvert	61	44 lin. ft. rein. conc. railing	

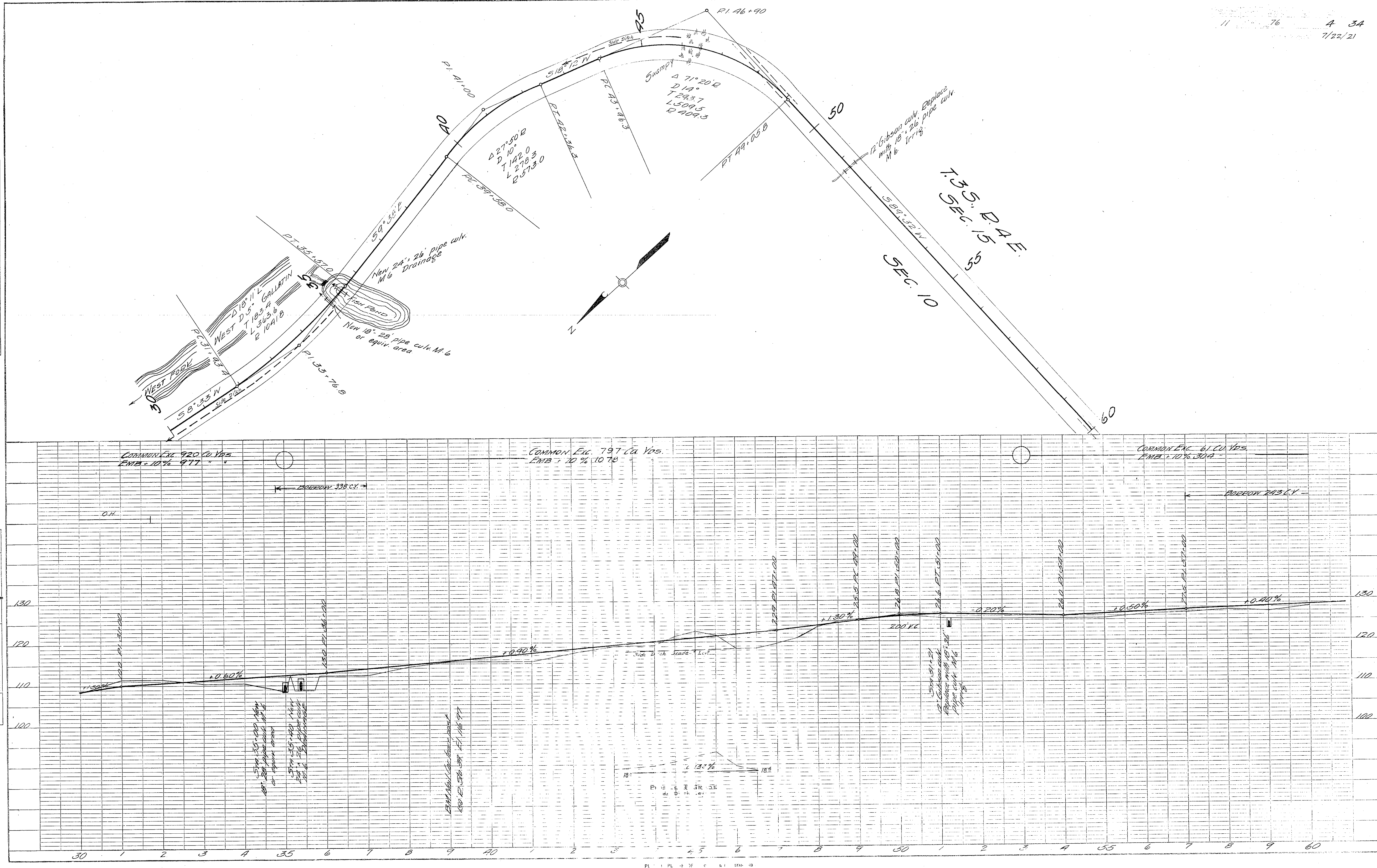
Notes:
A 10% Shrinkage factor was used for earth in embankment.
The term borrow is used to indicate the location where a shortage of material occurs. The location of borrow pits shall be designated by the Engineer.
The Free haul limit is 400 ft.
The length of culverts as given on these plans is the length between outside faces of headwalls.
Whenever possible excavation from side drainage ditches, suitable for embankment, will be used in place of borrow.



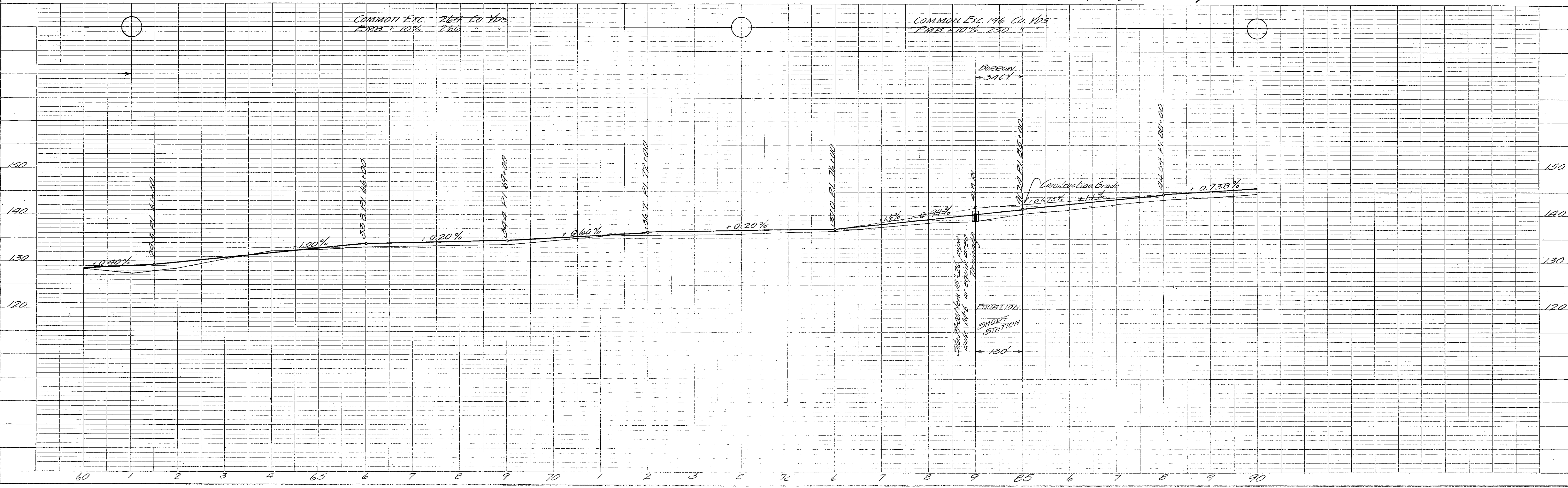
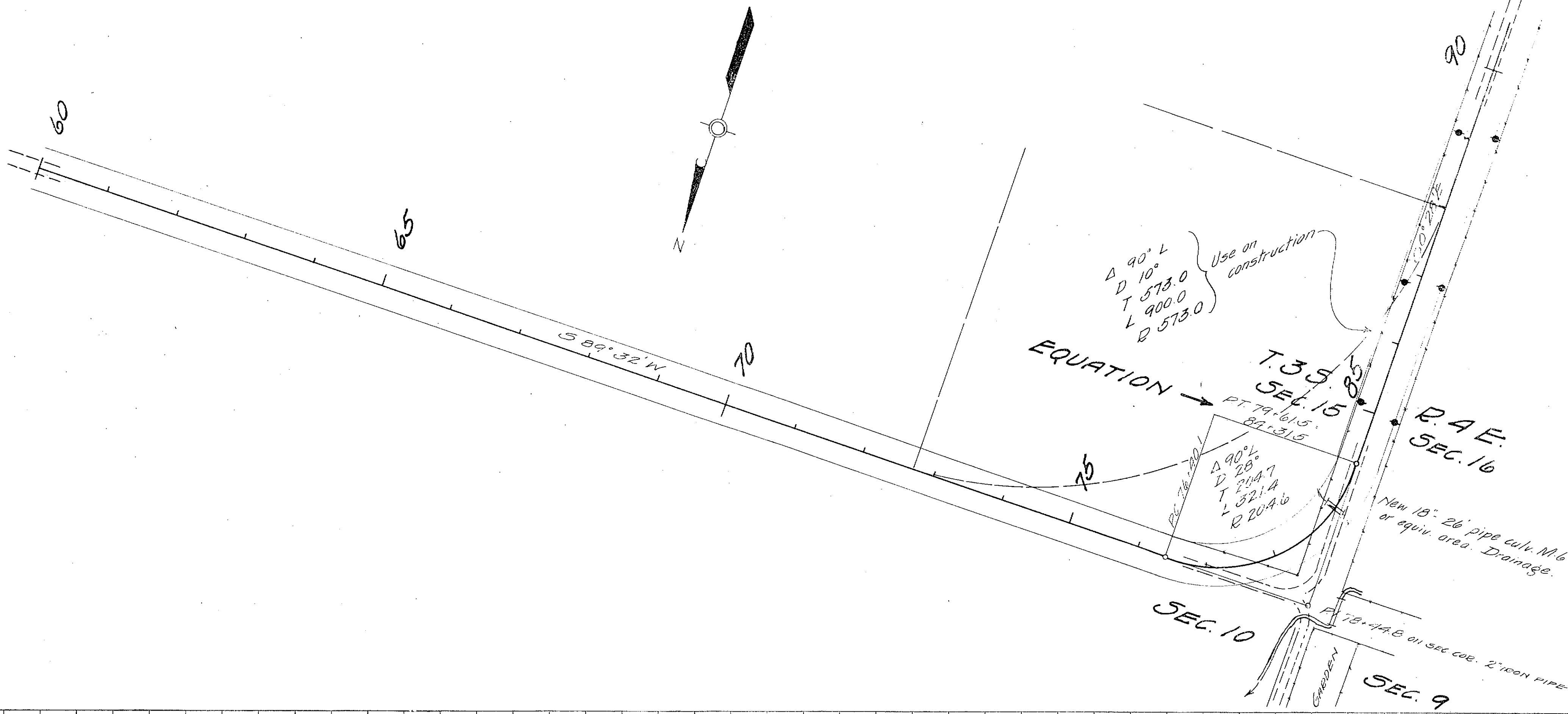


PLAN	DATE
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BY	
CHECKED	
NOTE BOOK	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	

PROFILE	DATE
NO.	
BY	
CHECKED	
NOTE BOOK	
STRUCTURE NOTATION	



PL 1 PL 2 PL 3 PL 4 PL 5 PL 6 PL 7 PL 8 PL 9 PL 10 PL 11 PL 12 PL 13 PL 14 PL 15 PL 16 PL 17 PL 18 PL 19 PL 20 PL 21 PL 22 PL 23 PL 24 PL 25 PL 26 PL 27 PL 28 PL 29 PL 30 PL 31 PL 32 PL 33 PL 34 PL 35 PL 36 PL 37 PL 38 PL 39 PL 40 PL 41 PL 42 PL 43 PL 44 PL 45 PL 46 PL 47 PL 48 PL 49 PL 50 PL 51 PL 52 PL 53 PL 54 PL 55 PL 56 PL 57 PL 58 PL 59 PL 60 PL 61 PL 62 PL 63 PL 64 PL 65 PL 66 PL 67 PL 68 PL 69 PL 70 PL 71 PL 72 PL 73 PL 74 PL 75 PL 76 PL 77 PL 78 PL 79 PL 80 PL 81 PL 82 PL 83 PL 84 PL 85 PL 86 PL 87 PL 88 PL 89 PL 90 PL 91 PL 92 PL 93 PL 94 PL 95 PL 96 PL 97 PL 98 PL 99 PL 100

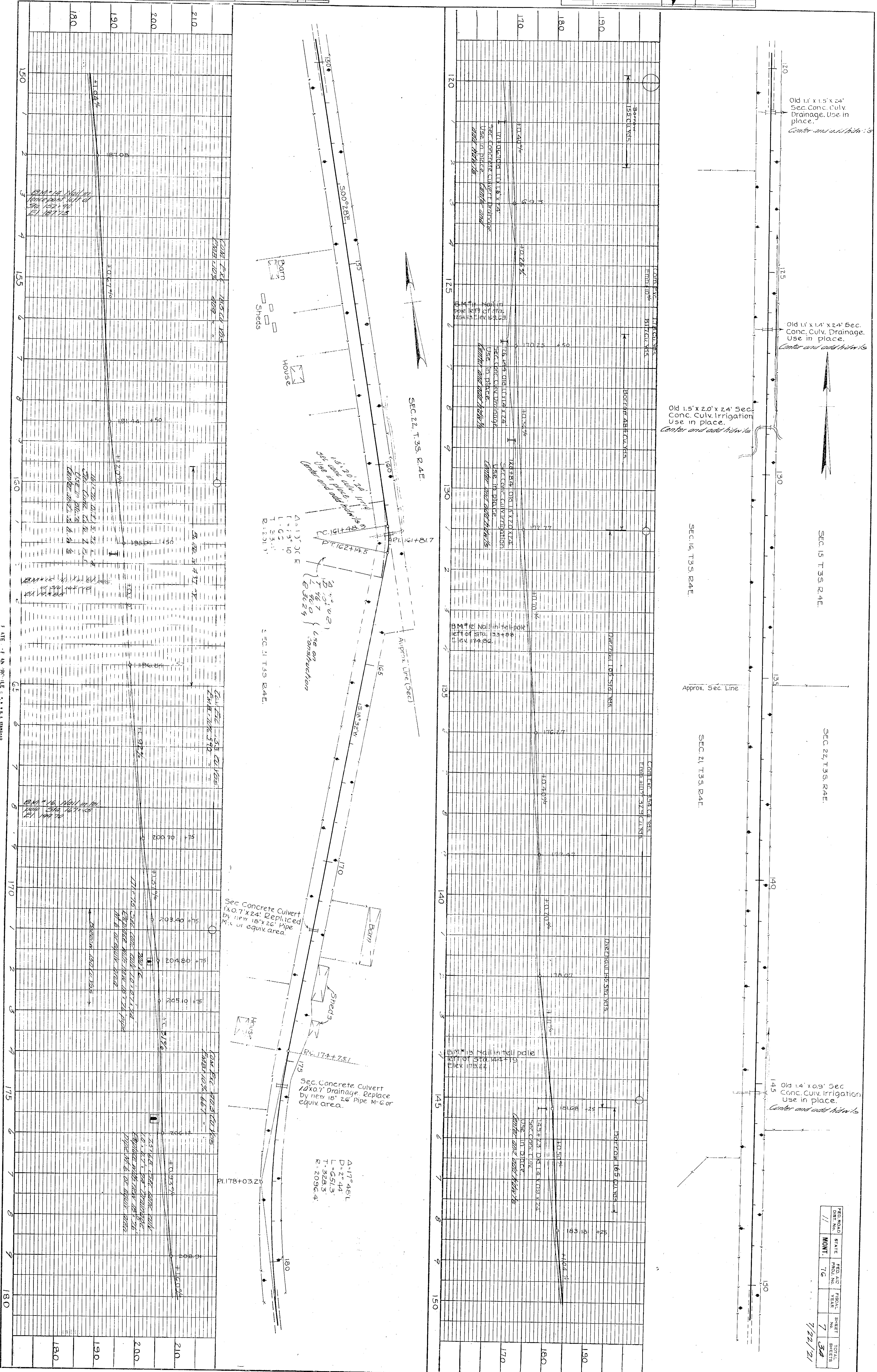


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PROFILE	SURVEYED	DATE
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PROFILE NOTE BOOK NO.	SURVEYED	BY	DATE
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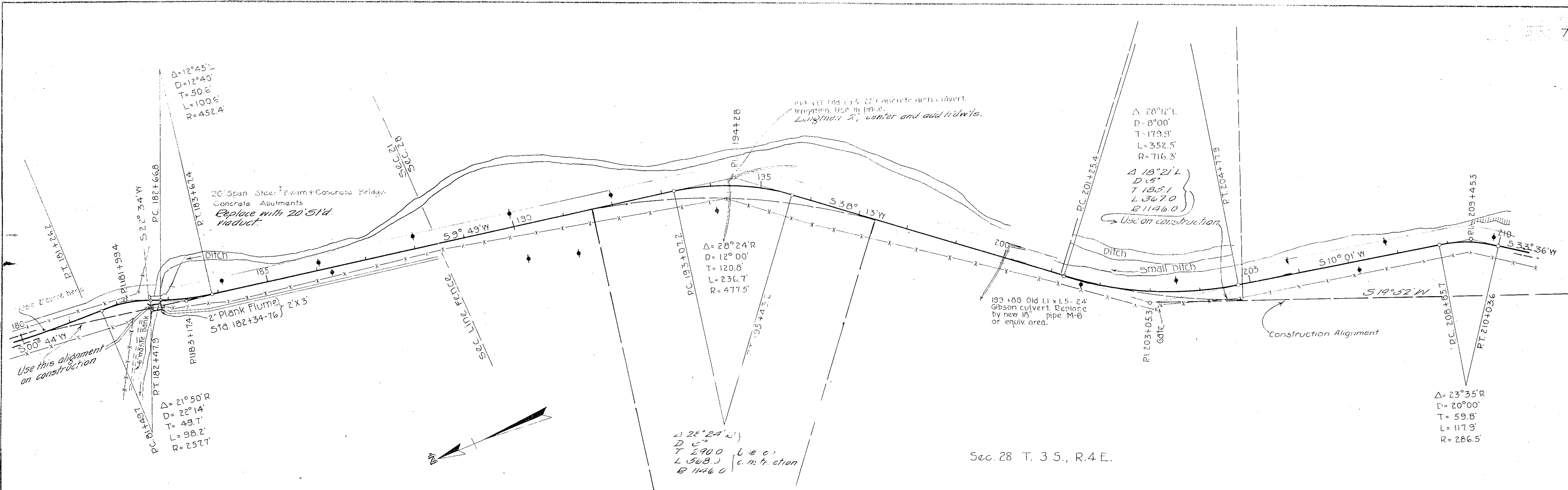
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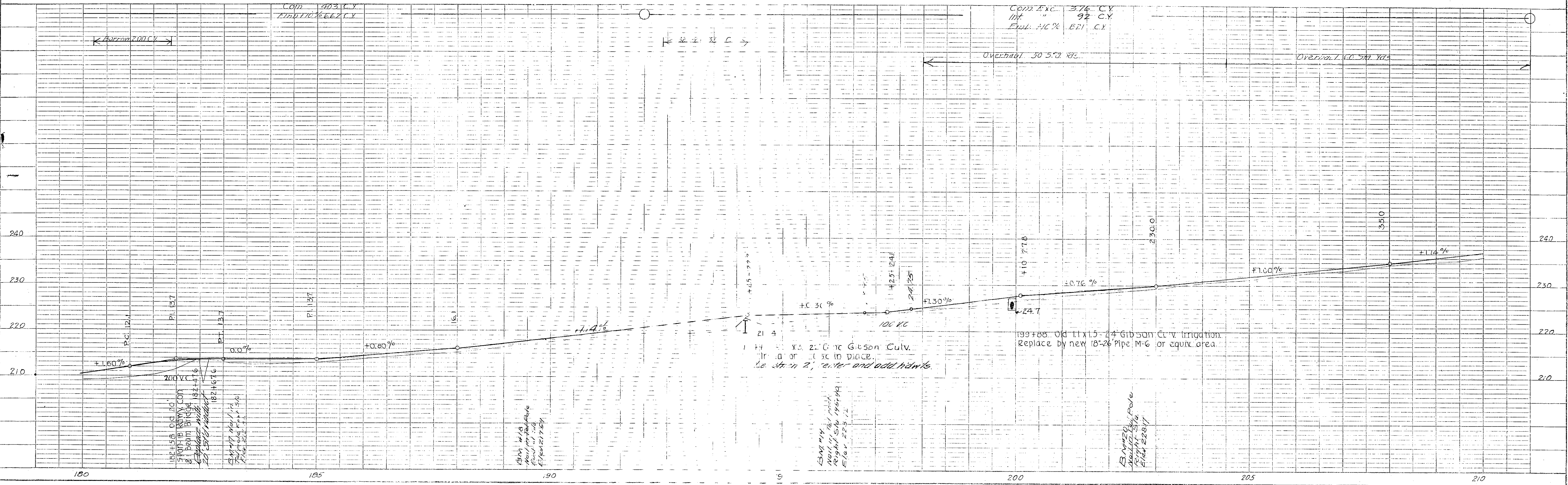
RECORD	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
11	MONT.	76	7	34

7/22/21

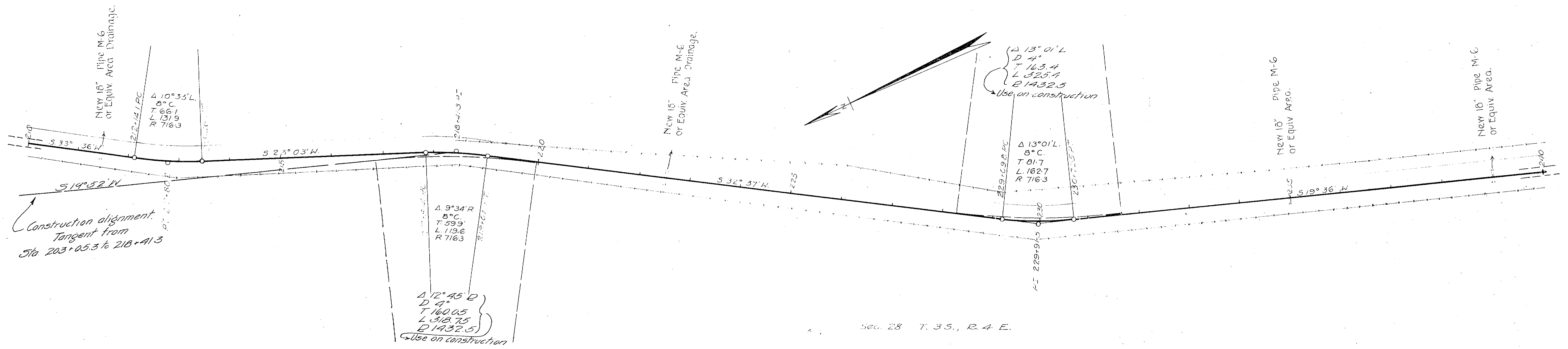
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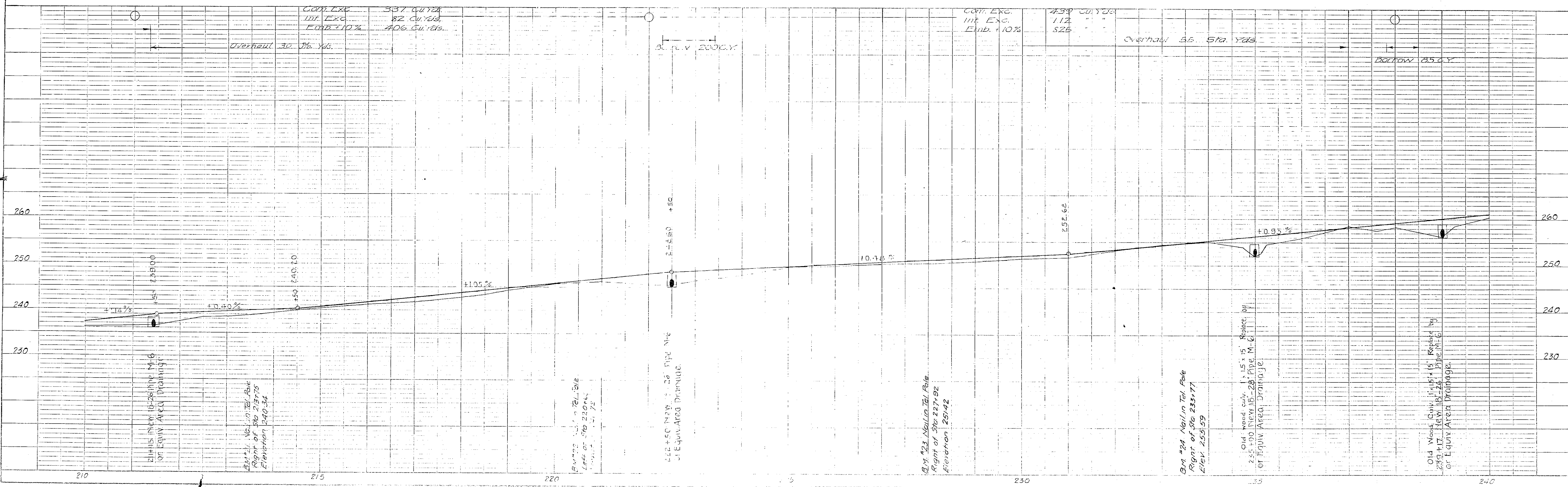
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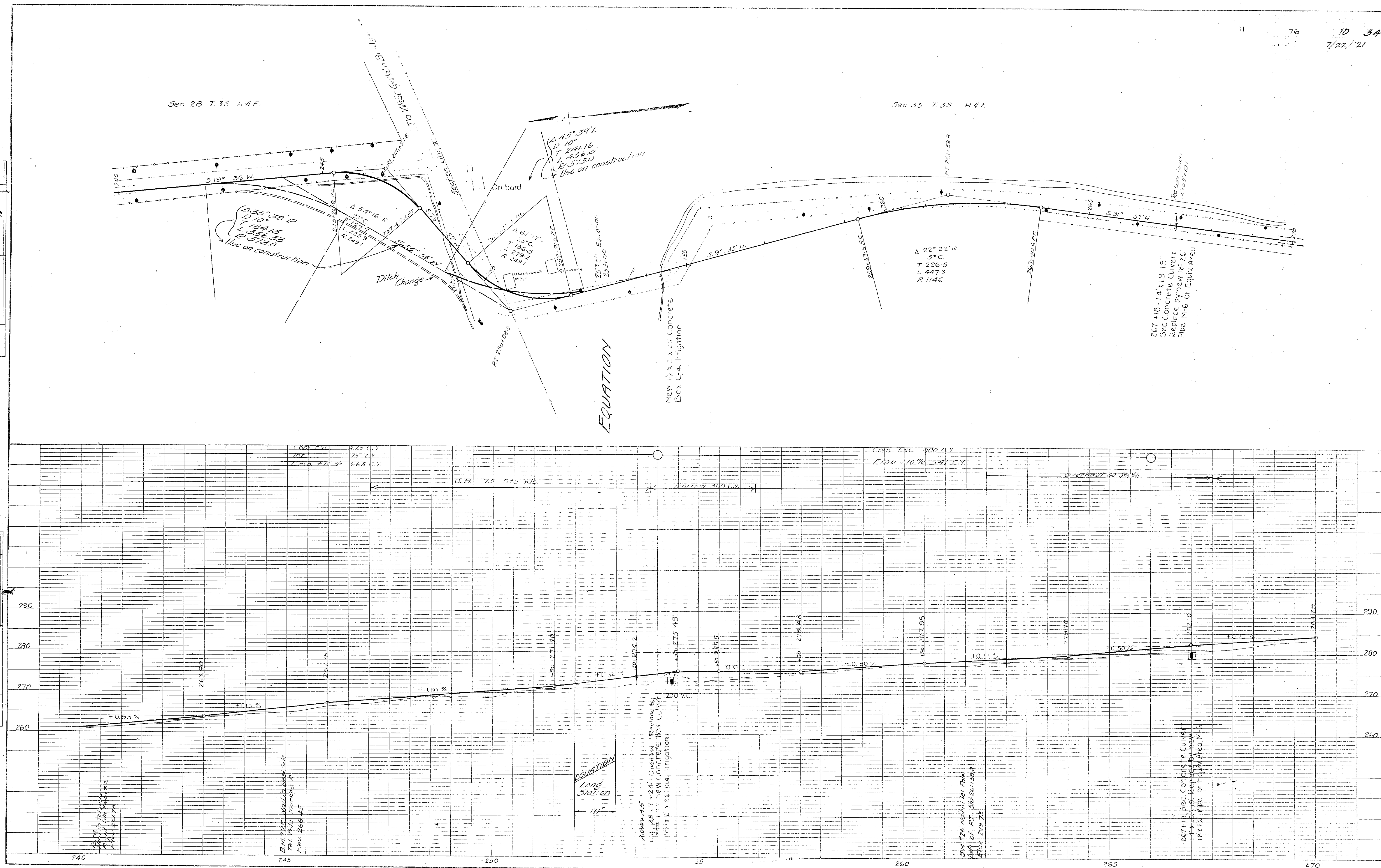
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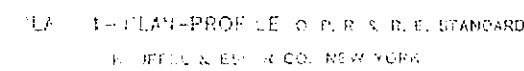
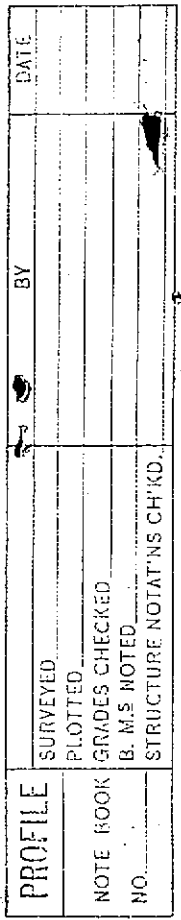


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NOTE BOOK ALPHABET CHECKED	
RT. OF WAY CHECKED	



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





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NOTE BOOK ALIGNMENT CHECKED		
RT. OF WAY CHECKED		

PROFILE	SURVEYED	DATE
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NOTE BOOK		
GRINDER CHECKED		
ELEVATION NOTED'S CHKD.		

