Leveraging Track Profiles to Model the Northern Pacific Railway

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September 2021

Topics

Part 1 – Long Track Profiles

- What Are Long Track Profiles?
- Common Layout, Legends for Markings
- Basic Tangent Track
- Signs
- Small Stations
- Sidings
- Buildings
- Tunnels
- Bridges And Elevations
- Curvature of Track
- Modeling summary
- Where can I get this resource?
- Part 2 Condensed Track Profiles

What Are Long Track Profiles?

- Published internally by NPRy, earliest available dates to 1907
- Technically labeled "Track Profile", but "Long" often prepended to differentiate between Condensed Track Profiles
- Rolled 10.5 inches x several feet long, some up to 41 ft
 - Longest Rocky Mountain Div First Subdivision Bozeman to Logan Alternative Main Line - MP 141 to 173 – 1924
- Trivia "MADE IN GERMANY" on many/most originals

MADE IN GERMANY "Dreferred" PROFILE PLATE. A.

How are they organized?

NPRy Published by

- Division
- Main Line or Branch
- Milepost to Milepost

N.P. R.R. FASER DIVISION SECOND DIST. Main Line TRICK PROFILE Miles 100-120 OFFICE OF ENG. MITCE OF WAY, ST. PAUL, MINN.

Ocober, 1907.

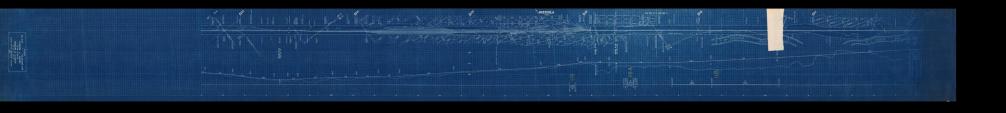
Remeasurement of trock See Rous Notes F.B. No.73 Pages 54 to 64 Ground line , rare of curvature as center angles taken from original profile Position of PC's and PJ's according to original profiles stewn thus Chainbye for Mile Pasts is the result of actual measurement and the distance may slightly differ from a standard mile

N.P.RY. TRACK PROFILE PALOUSE & LEWISTON BRANCH MARSHALL TO LEWISTON M.P. 100 TO 120

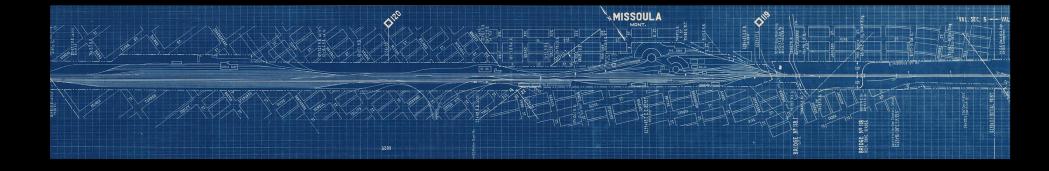
SCALE HOR. 1" - 400" VER. 1" - 20" Office of Chief Engineer, St.Paul Minn.

PROFILE ROCKY MOUNTAIN DIV. MAIN LINE HELENA MISSOULA TO М.Р. 102 то M.P. 118 MISSOULA PARADISE TO M.P. 118 M.P. 122 TO MONTANA VALUATION SECTIONS Nº4&5. 1924.

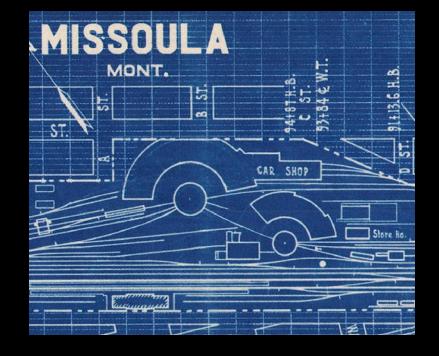
FullView



Zoom In



Detail



Layout

- Mainline/branch always straight line
- Title/Legend at one or both ends
- Horizontal: 1 inch = 400 feet
- Vertical: 1 inch = 20 feet

Scanned

Common Layout

Top – Track and Features

Middle – Grades and Bridges

Bottom - Curvature



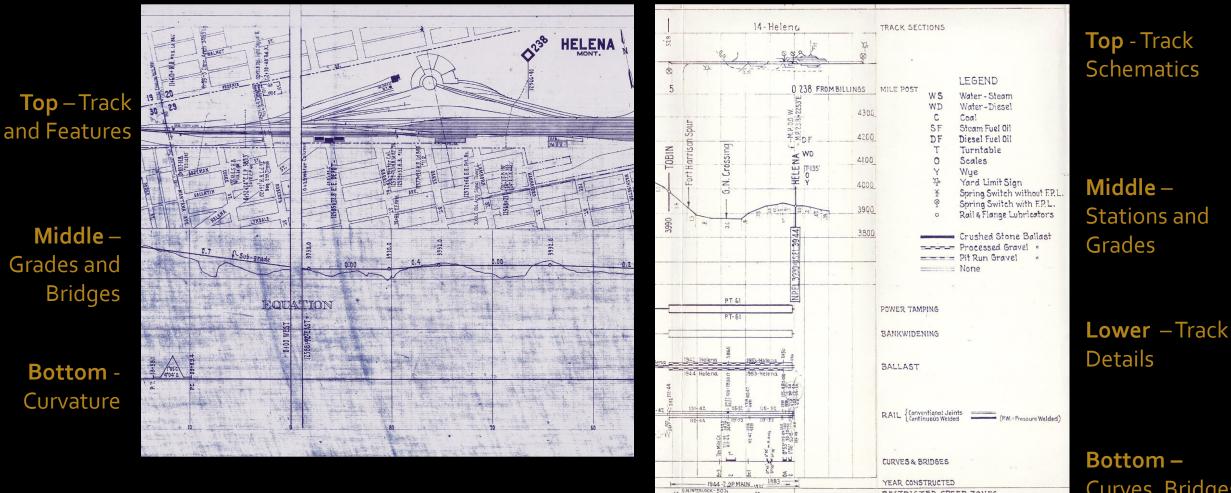
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How do Track Profiles Differ from Condensed Track Profiles?

Long Profile

Condensed Profile

RESTRICTED SPEED ZONES



Curves, Bridges, Speed Zones

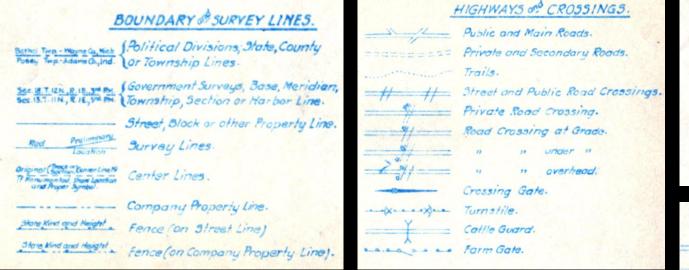
Legend – Standard Plans Book

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	Street, Block or other Property Line.	×	Test Opening.	In four sheets Sheet No. 1
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Legend – Standard Plans Book







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+ BUILDINGS.

CULVERTS, SEWERS, ETC. Masonry Arch or Flat Top Culvert. Pipe or Wood Box Culvert or Drain. Rind of Walls Honu) -D---- Catch Basin Manhole. Sump.

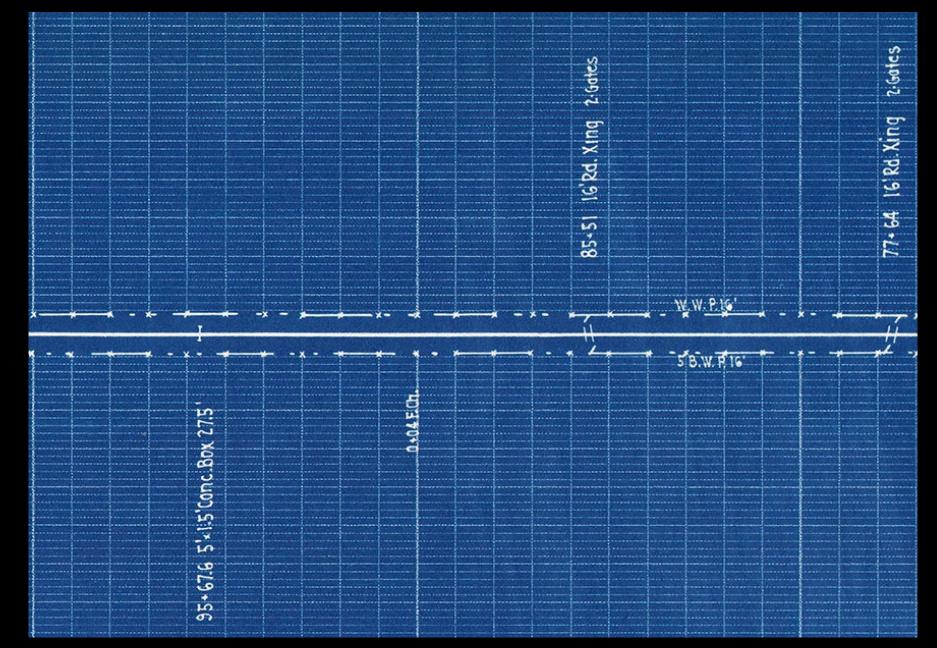
Legend – Standard Plans Book

	WATER SUPPLY of PIPE LINES.
Give Character Diam & Height W.T.	Water Tank.
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	Track Pan.
Give Size	Company Water Pipe.
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o' 100' 200'	
0' 50' 100' 200'	Graphic Scales.
0° 50' 100' 150' 200'	
	Boom Crane.
G	Gas Container.

Basic Tangent Track - Modeling

- Culvert
- Fence
- Rd. Xing
- Cattle Guard
- Rail Rest



Culvert + Marker Profile

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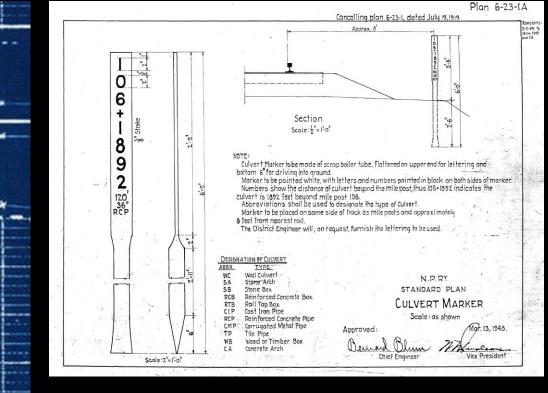
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Modeling



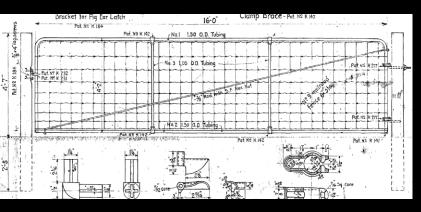




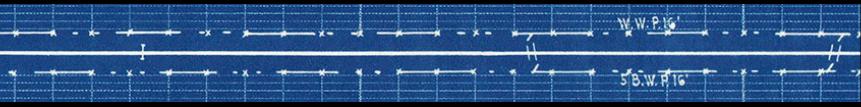


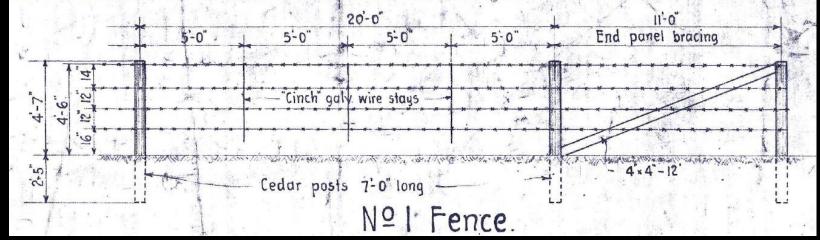
Fence

Note the <u>gate</u> mark on the fence at the road crossing



Profile





Modeling



Cattle Guard - CG Crossing Sign – Xg Sn

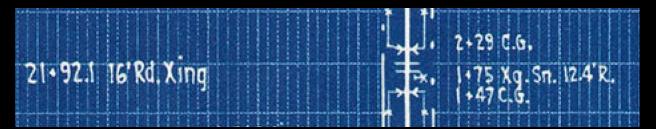
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16'Rd.Xing

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Profile







Cattle Guard.

Crossing Sign.



NPRHA Kits: N3146-H0 N3146-N N3146-0





NPRHA Decals: N3211-H0 N3211-N N3211-0





Placed every mile, spare length of rail for repairs

Modeling



MP 98 East of Auburn

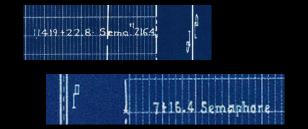
Some Train Control Signs Included on Long Profiles



	DESCRIPTION	PLAN Nº		DESCRIPTION	PLAN Nº	
5	TRAIN CONTROL SERIES		S			
Ĩ			Ĭ	STATION AND STRUCTURE SERIES		
Ġ	CAUTION FLAG	6-1-16	Ġ	BRIDGE	6-2-2	
Ň	DERAIL	6-1-13	N	COUNTY BOUNDARY	6-2-7	
S	DRAW 800 FT.	6-1-6	S	CULVERT MARKER	6-2-3	
-	DRAW J MILE	6-1-7		MILE	6-2-1B	
	DRILLING FOR ROADWAY SIGNS	6-1-0		PRIVATE PROPERTY	6-2-6	
	END DOUBLE TRACK	6-1-11		SCALE	6-2-7	
	FLANGER	6-1-21		STATION	6-2-4	-
	FOULING POINT	6-1-14		TUNNEL	6-2-5	
	JUNCTION 800 FT.	6-1-8A				
	JUNCTION I MILE	6-1-8				
	PERMISSIVE MARKER FOR AUTO. BLOCK SIGNAL	6-1-19				
	R. R. CROSSING 800 FT.	6-1-4				
	R. R. CROSSING I MILE 6-1-5	& 6-1-5A				
	SIGNAL CLEARING SECTION	6-1-18				
	SPEED CONTROL (ADVANCE, REDUCE & RESUME)	6-1-22 6-1-23				
	STATION I MILE			HIGHWAY SERIES		
	STOP	6-1-1		HAZARD MARKERS FOR UNDERPASS SUPPORTS	6-3-5	
	STOP, CAUTION AND RESUME SPEED FLAGS	6-1-17		HIGHWAY CROSSING	6-3-1B	
	STOP ENGINE	6-1-12		LOW CLEARANCE	6-3-4	
	SUMMIT	6-1-20	RAILROAD ADVANCE WARNING	6-3-3		
	WESTWARD AND EASTWARD SIDING	6-1-10		STOP (Private Road Crossing)	6-3-2	
	WHISTLE	6-1-9				
	YARD LIMIT	6-1-2				
	YARD LIMIT ONE MILE	6-1-3				

Not Shown:

Fouling Point, Speed Control





Other Signs Included on Long Profiles



	DESCRIPTION	PLAN Nº	DESCRIPTION	PLAN Nº
5	TRAIN CONTROL SERIES		6	
1			STATION AND STRUCTURE SERIES	
9	CAUTION FLAG	6-1-16	BRIDGE	6-2-2
1	DERAIL	6-1-13	COUNTY BOUNDARY CULVERT MARKER	6-2-7
5	DRAW 800 FT.	6-1-6	CULVERT MARKER	6-2-3
	DRAW I MILE	6-1-7	MILE	6-2-1B
	DRILLING FOR ROADWAY SIGNS	6-1-0	PRIVATE PROPERTY	6-2-6
	END DOUBLE TRACK	6-1-11	SCALE	6-2-7
	FLANGER	6-1-21	STATION	6-2-4
	FOULING POINT	6-1-14	TUNNEL	6-2-5
	JUNCTION 800 FT.	6-1-8A		
	JUNCTION I MILE	6-1-8		
	PERMISSIVE MARKER FOR AUTO. BLOCK SIGNAL	6-1-19		
	R. R. CROSSING 800 FT.	6-1-4		
	R. R. CROSSING I MILE 6-1-5	& 6-1-5A		
	SIGNAL CLEARING SECTION	6-1-18		
	SPEED CONTROL (ADVANCE, REDUCE & RESUME)	6-1-22		
	STATION I MILE	6-1-23	HIGHWAY SERIES	
	STOP	6-1-1	HAZARD MARKERS FOR UNDERPASS SUPPOR	TS 6-3-5
	STOP, CAUTION AND RESUME SPEED FLAGS	6-1-17	HIGHWAY CROSSING	6-3-1B
	STOP ENGINE	6-1-12	LOW CLEARANCE	6-3-4
	SUMMIT	6-1-20	RAILROAD ADVANCE WARNING	6-3-3
	WESTWARD AND EASTWARD SIDING	6-1-10	STOP (Private Road Crossing)	6-3-2
	WHISTLE	6-1-9		
	YARD LIMIT	6-1-2		
	YARD LIMIT ONE MILE	6-1-3		

Modeling Authentic NP Signs:

- Rick Leach offered decals couple years back
- Project for NPRHA in next year or two. Demand?

Locations of Signs:

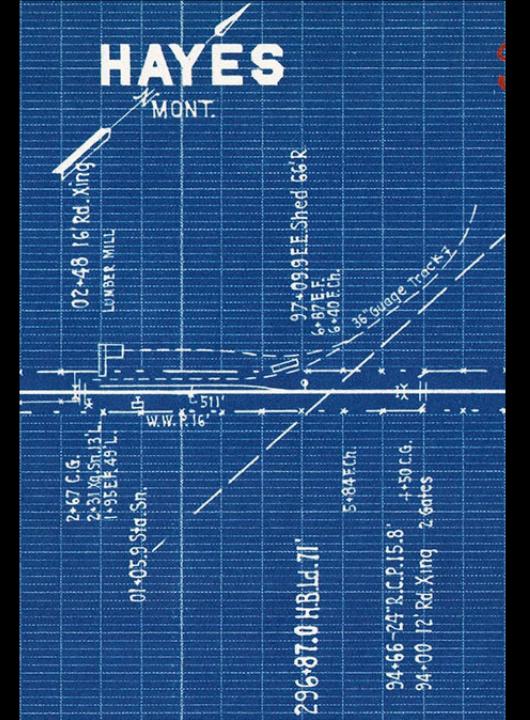
- Sign plans for your era include placement guidance
- Older, complete list: NP Track Maintenance Rules and Plans of 1918

	DISTAR	ICE OUT	Top of Sign	
KIND	From Rail	From Center of Track	Above Ground	LOCATION
County Line Curve Marker Draw Span One Mile Draw Span 800 Feet Dump Cinders Derail. Extra Rail Support	8' 10' 10' 8' 8' 8'	25 ′	6'6" 18" 8' 8' 8' 5'6" 4'	On County Line. As directed. As directed. As directed. Posts 15 ' apart and opposite
End Double Track. Flanger Highway Crossing Interest. Mile post.	10 ' 8' 10 ' 6 '9"		8' 8' 12' 4'6"	Mile Posts where possible. 50 ' from obstruction. As directed. As directed.
R. R. Crossing One Mile. R. R. Crossing 800 Feet. Stop. Station One Mile. Station One Mile Water. Speed Limit. Station-Blind Siding.	10' 10' 10' 10' 10'	25 '	8' 8' 8' 8' 8' 8'	As directed. One Mile from Depot. As directed. As directed.
Section Limit Siding Supplemental R. R. Crossing Trespass Tunnel. Water One Mile Whistle Yard Limit	8' 8' 10' 8' 10'		2'6" 8' 8' 8' 8' 8' 8'	As directed. As directed. As directed. As directed. As directed. As directed. As directed. As directed.

Small Station - Modeling

- Sidings
- Buildings
- Other





Sidings – H.B.

- "H.B." is short for Head Block. NP standard = two 15' long Head Block ties under switch stand
- "Ld. #" Lead distance from the switch points to the frog point
- #11S is #11 standard plan, Spring Rail Frog
- "22' Sp.Sw." is length of switch points, and it's a spring switch, with electric switch machine
- F.P.L = Facing Point Lock



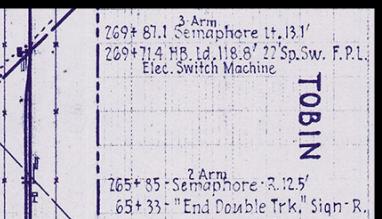
With Size









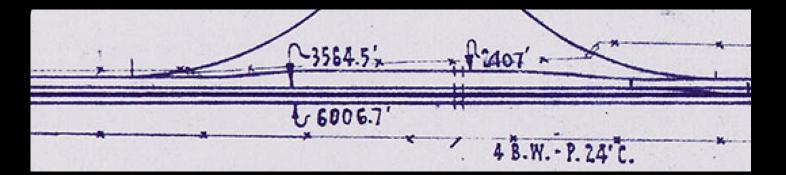


Sidings – Length

Simple – Hays 511 ft



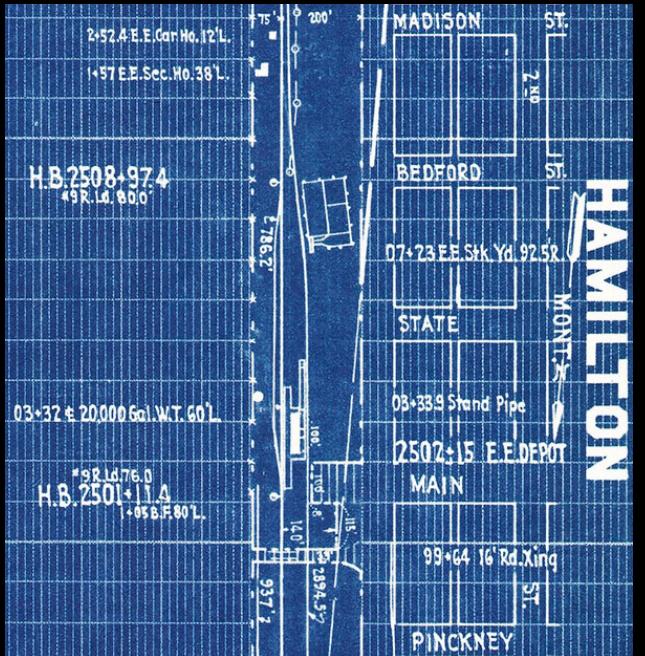
Multiple – Blossburg 3,564.5 ft 6006.7 ft 2407 ft



Buildings - Hamilton

E.E. Car House, 12ft E.E. Section House, 38ft

20,000 Gal Water Tank



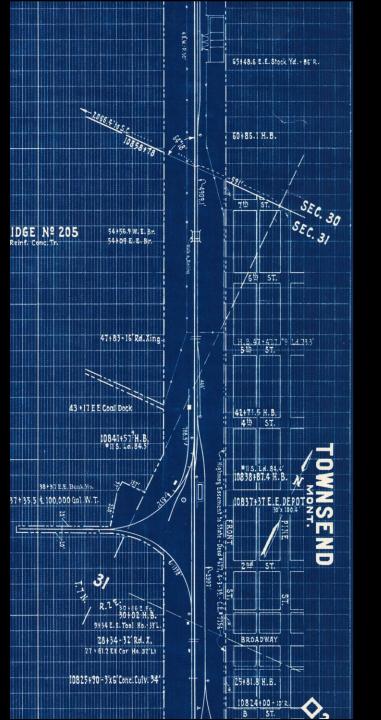
E.E. Stock Yard

Stand Pipe E.E. Depot

Buildings - Townsend

E.E. Bunk House 100,000 Gal Water Tank

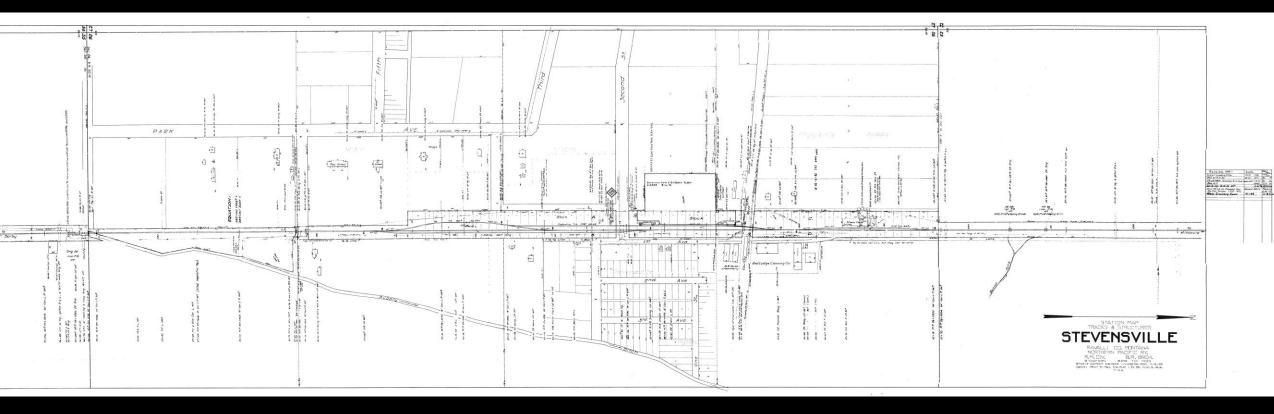
E.E. Tool House, 33ft E.E. Car House, 32ft



E.E. Stock Yard

E.E. Depot, 30ft x 100ft

Buildings – all that said... use Station Maps!

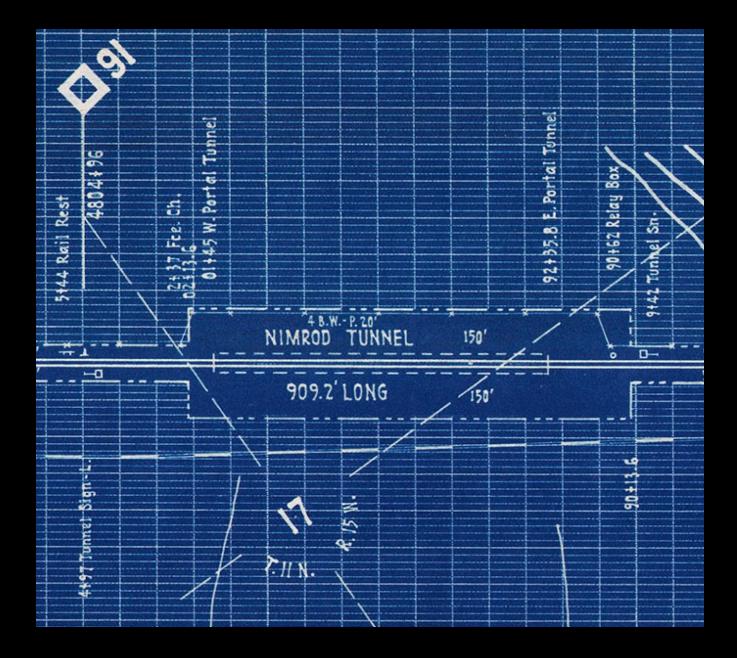


- Most NPR structure sizes
- Telegraph line positions, etc.
- Surrounding industrial and town buildings
- Station revisions in convenient table, even for little stations like Weed

Tunnel - Modeling

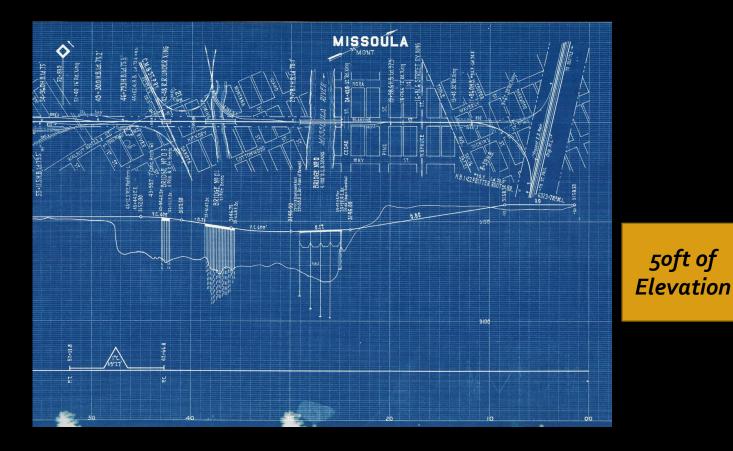
- Tunnel Name
- Tunnel Sign
- Portal Tunnel
- Tell Tale





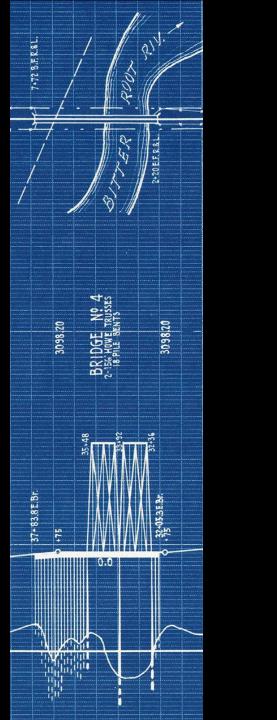
Bridges and Elevations

- Bridge Numbers
- Bridge type, piles
- W.E. Br. E.E. Br. = Length
- Elevation of grade
- Incline/slope of track, point to point



Bridge Example

- Two 156ft Howe Trusses +
- 18 Pile Bents
- 37.83.8 32.05.3 = 578.5 ft



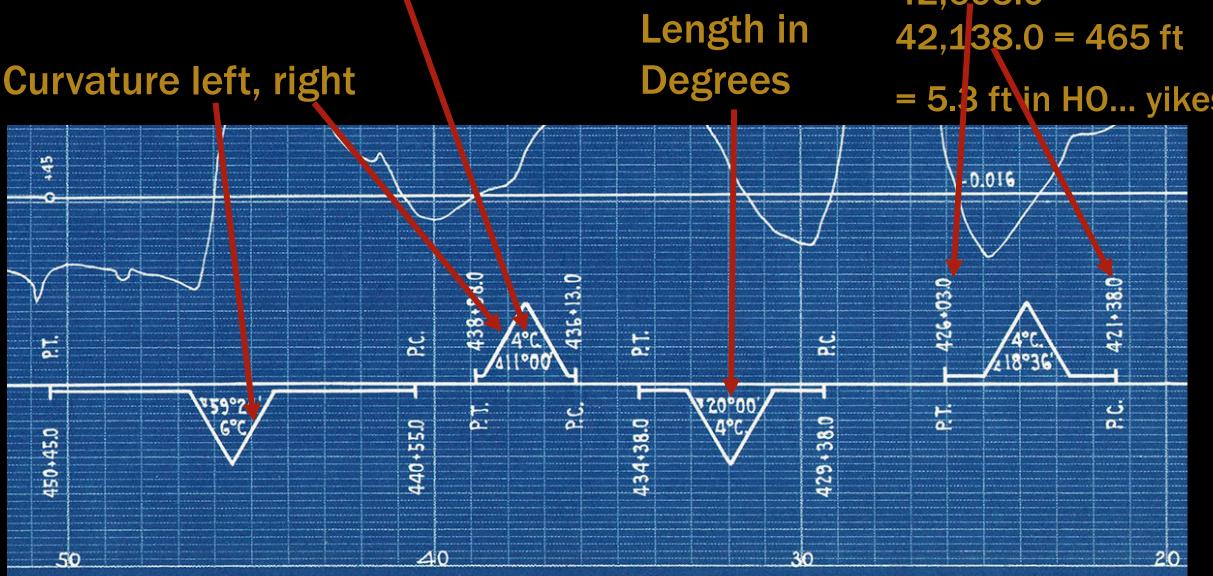
Elevations

 Elevation of grade
 Incline/slope of track, point to point



Curvature

Length in Feet Curve = PT - PC42,603.0 -42,138.0 = 465 ft = 5.3 ft in HO... yikes



Degree of curvature

Modeling Summary

- Profiles are a great resource to help make your layout AUTHENTIC NP
- Authentic Kits available today <u>Cattle Guards</u>, <u>Crossing Signs</u>, <u>Whistle Sign (</u>HO)
- Signage needed Semaphore, train control signs, structure signs, bridge/tunnel
- Structures needed Stock yard, water tanks (wood, modern flat top), blow out basin
- Others needed battery box, phone box, mail crane, telltale



2017 Structure Survey

NPRHA 2017 Structure Survey								
		ļ					· · ·	
All Scales		HO Scale		N Scale		O Scale		
Cattle Guard	108	Cattle Guard 🛛 🗸	76	Boxcar Shed	38	Watchmans House	9	
Boxcar Shed	86	Wood Platform	58	Bunk House	32	Hose House	7	
Small Tellegraph	77	Concrete Platform	57	Cattle Guard 🛛 🗸	28	Small Tellegraph	7	
Bunk House	76	Eng House A 🛛 🗸	51	Watchmans House	25	Eng House B	6	
Wood Platform	75	Stock Yard - Basics	50	Hose House	22	Pump House	6	
Concrete Platform	73	Small Tellegraph 🗸	48	Small Tellegraph	22	Combo Depot	6	
Eng House A	67	Two Post Tower	45	Toston Depot	19	Office @ Jct	6	
Watchmans House	67	Boxcar Shed 🗸	44	Pump House	19	Portable Bunk	5	
Stock Yard - Basics	65	Bunk House 🖌 🗸	43	Combo Depot	18	WT 48K HF	5	
Hose House	64	Stock Yard - Bonus	42	Boxcar Cottages	16	Cattle Guard 🛛 🗸	4	
Two Post Tower	61	Toston Depot 🛛 🗸	36	Two Post Tower	15	Boxcar Shed	4	
Combo Depot	60	Combo Depot	36	Eng House B	15	WT 100K MF	4	
Toston Depot	55	Hose House 🖌 🗸	35	Concrete Platform	15	Boxcar Cottages	3	
Eng House B	53	Coal Shed 🗸 🗸	34	Wood Platform	15	Coal Dock	3	
Pump House	53	WT 100K MF	34	WT 100K HF	15	Eng House A	3	
Stock Yard - Bonus	53	Watchmans House 🗸	33	WT Metal	15	Ice House	3	
Coal Shed	47	Eng House B	32	Eng House A	13	Coal Shed	3	
Office @ Jct	46	Ice House 🖌 🗸	30	Freight Depot	13	Blow Off Basin	2	
WT 100K MF	46	Pump House	28	Office @ Jct	13	Wood Platform	2	
lce House	45	Office @ Jct	27	Stock Yard - Basics	13	WT 48K MF	2	
WT Metal	43	WT Metal	25	Ice House	12	WT Metal	2	
Coal Dock	38	Coal Dock	24	WT 48K HF	12	Stock Yard - Basics	2	
Freight Depot	38	Freight Depot	24	Coal Dock	11	Stock Yard - Bonus	2	
WT 100K HF	35	WT 48K MF	22	Portable Bunk	11	Two Post Tower	1	
WT 48K HF	35	Section House	21	Coal Shed	10	Bunk House	1	
WT 48K MF	31	WT 100K HF	19	Stock Yard - Bonus	9	Freight Depot	1	
Boxcar Cottages	30	WT 48K HF	18	Blow Off Basin	8	Section House	1	
Section House	30	Blow Off Basin	13	Section House	8	Concrete Platform	1	
Portable Bunk	29	Portable Bunk	13	WT 100K MF	8	WT 100K HF	1	
Blow Off Basin	23	WT 20K LF	13	WT 20K LF	8	WT 20K LF	1	
WT 20K LF	22	Boxcar Cottages	11	WT 48K MF	7	WT 48K LF	1	
WT 48K LF	13	WT 48K LF	9	WT 48K LF	3	Toston Depot	0	



Where can I get Long Track Profiles?

Vista Dome Package has:

- Condensed Profiles 17 from 1928 set, 26 from 1969 set. All main line
- Long Profiles **187** from various era's, branch and main lines. All are WEST of Glendive
 - Roughly 4986 FEET of Long Track profiles!
- Long profiles are too big to go on NPRHA site, VDP only way
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End of Part 1 of 2

Part 1 – Long Track Profiles

Part 2 – Condensed Track Profiles