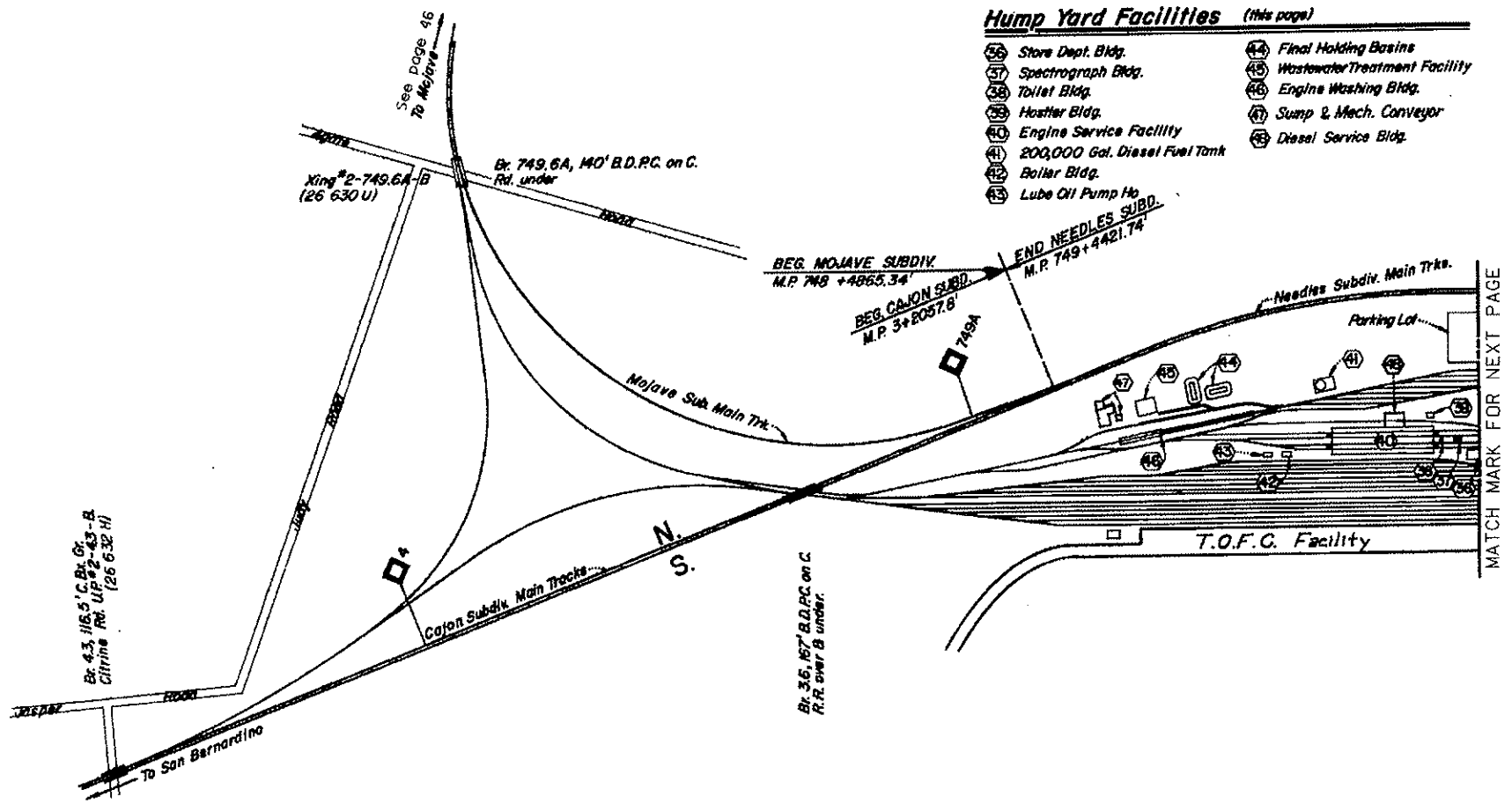


REVISED FEB. 1992

NEEDLES SUBDIVISION

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Hump Yard Facilities (this page)

- | | |
|----------------------------------|----------------------------------|
| 36 Store Dept. Bldg. | 44 Final Holding Basins |
| 37 Spectrograph Bldg. | 45 Wastewater Treatment Facility |
| 38 Toilet Bldg. | 46 Engine Washing Bldg. |
| 39 Hoist Bldg. | 47 Sump & Mech. Conveyor |
| 40 Engine Service Facility | 48 Diesel Service Bldg. |
| 41 200,000 Gal. Diesel Fuel Tank | |
| 42 Boiler Bldg. | |
| 43 Lube Oil Pump Ho. | |

Hump Yard Capacities

Receiving Yard

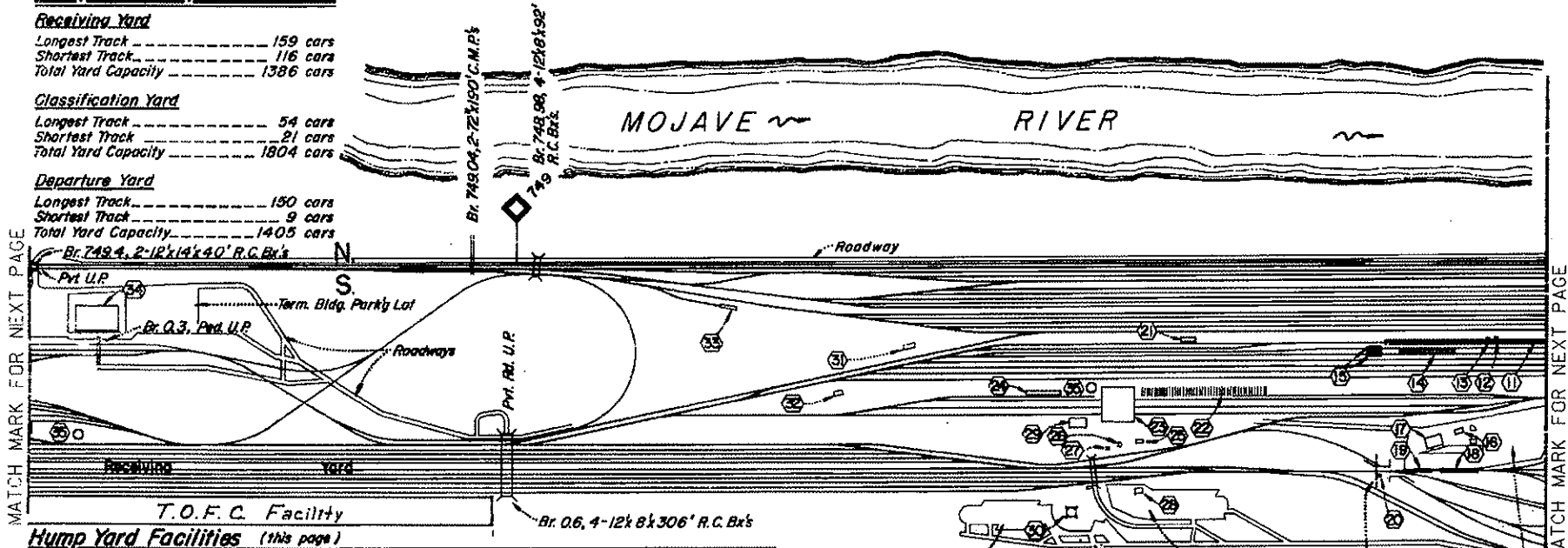
Longest Track ----- 159 cars
 Shortest Track ----- 116 cars
 Total Yard Capacity ----- 1386 cars

Classification Yard

Longest Track ----- 54 cars
 Shortest Track ----- 21 cars
 Total Yard Capacity ----- 1804 cars

Departure Yard

Longest Track ----- 150 cars
 Shortest Track ----- 9 cars
 Total Yard Capacity ----- 1405 cars



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MATCH MARK FOR NEXT PAGE

Hump Yard Facilities (this page)

- | | | |
|-----------------------------|------------------------------|------------------------------------|
| ① M.T.C. Service Platform | ⑩ Hump Conductor's Bldg. | ⑲ Rip Track Office Bldg. |
| ② M.T.C. Toilet Bldg. | ⑪ M.T.C. Office Bldg. | ⑳ Terminal Supervisor's High Tower |
| ③ M.T.C. Pump Bldg. | ⑫ Wheel Storage Tracks (66) | ㉑ Section Garage |
| ④ M.T.C. Dock | ⑬ One Spot Bldg. | ㉒ Equipment Repair Shop |
| ⑤ M.T.C. Wash Platforms (2) | ⑭ Truck and Rail Dock | ㉓ T.O.F.C. Ramp |
| ⑥ Hump Crew Bldg. | ⑮ Oxygen and Acetylene Bldg. | ㉔ Terminal Office Bldg. |
| ⑦ Hummaster's Off. Bldg. | ⑯ Liquid Oxygen Storage Pad | ㉕ 1000 Gal. Abv.-Grd. Sto. Tank |
| ⑧ Master Reorderer | ⑰ Battery Storage Bldg. | |
| ⑨ Electronic Track Scales | ⑱ Car Inspector's Shanty | |

Term. Tower Parking Lot

Car Inspector's Parking Lot

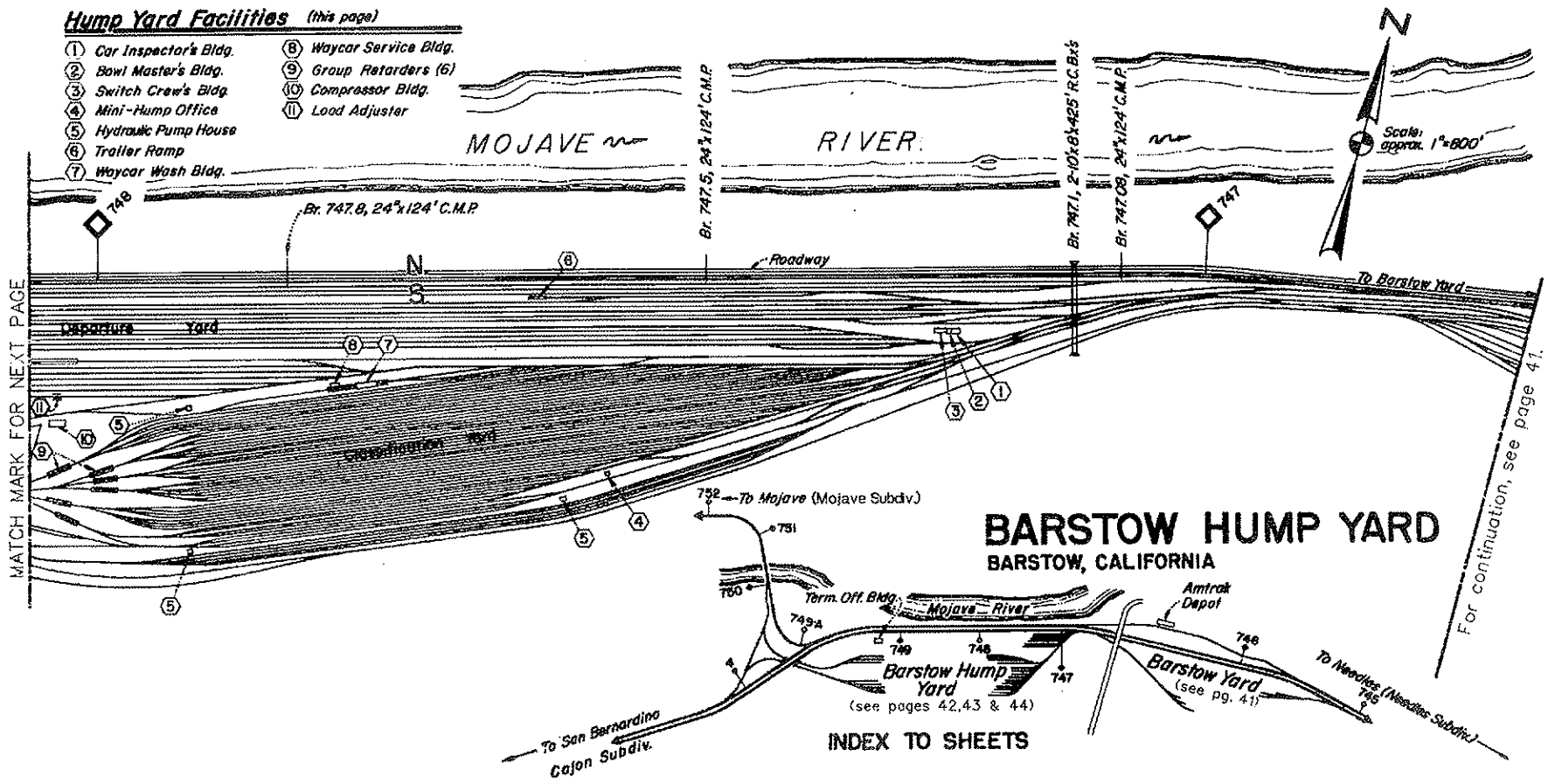
Hummaster's Parking Lot

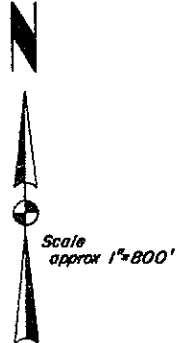
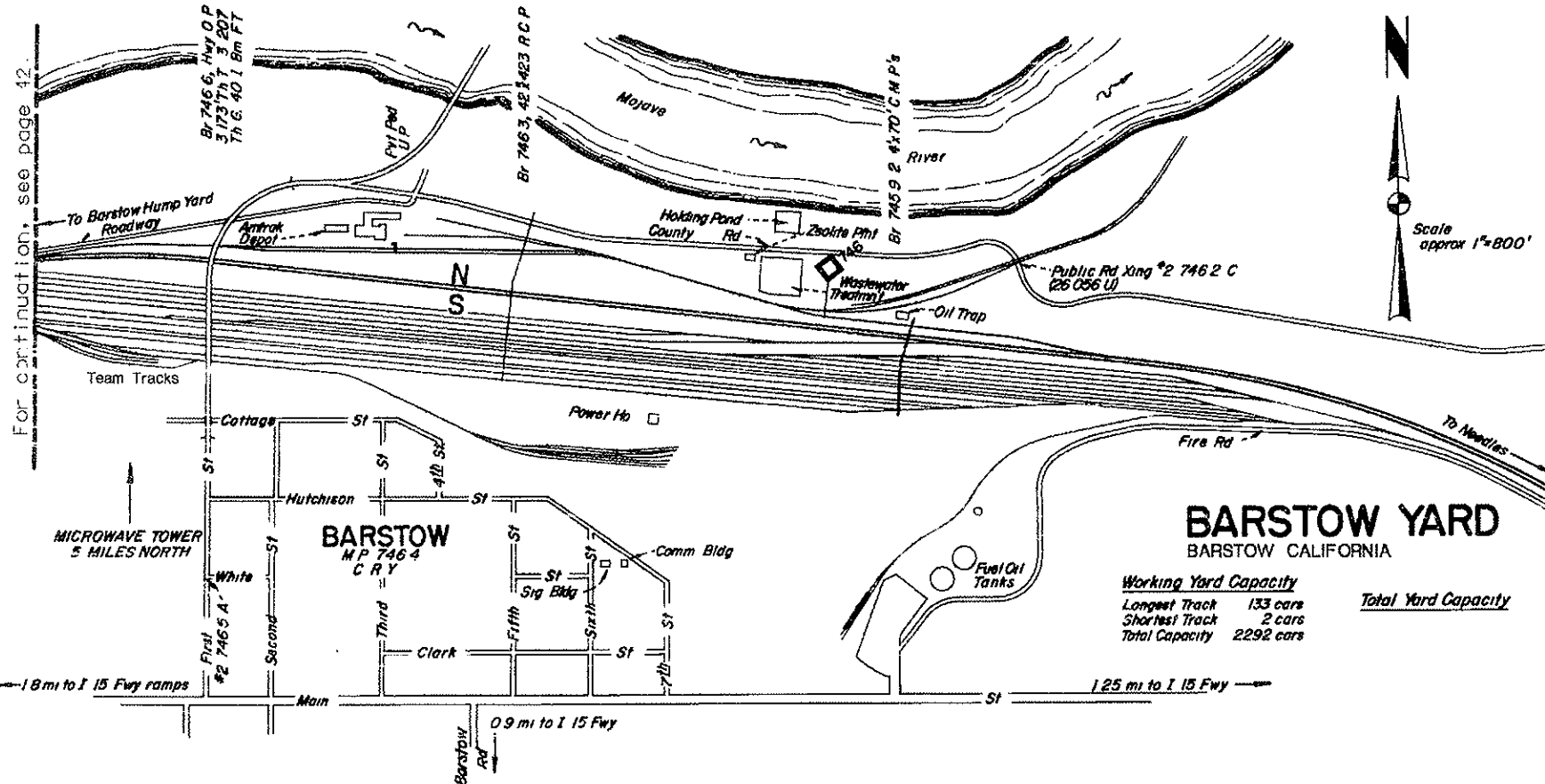
Br. 0.7, 16x12x125' R.C. Br. D
 P.Y. RR. U.P.

Crest of Hump
 Br. 1.2, 16x26x65'
 R.C. Br.

Hump Yard Facilities (this page)

- ① Car Inspector's Bldg.
- ② Bowi Master's Bldg.
- ③ Switch Crew's Bldg.
- ④ Mini-Hump Office
- ⑤ Hydraulic Pump House
- ⑥ Trailer Ramp
- ⑦ Waycar Wash Bldg.
- ⑧ Waycar Service Bldg.
- ⑨ Group Retarders (6)
- ⑩ Compressor Bldg.
- ⑪ Load Adjuster

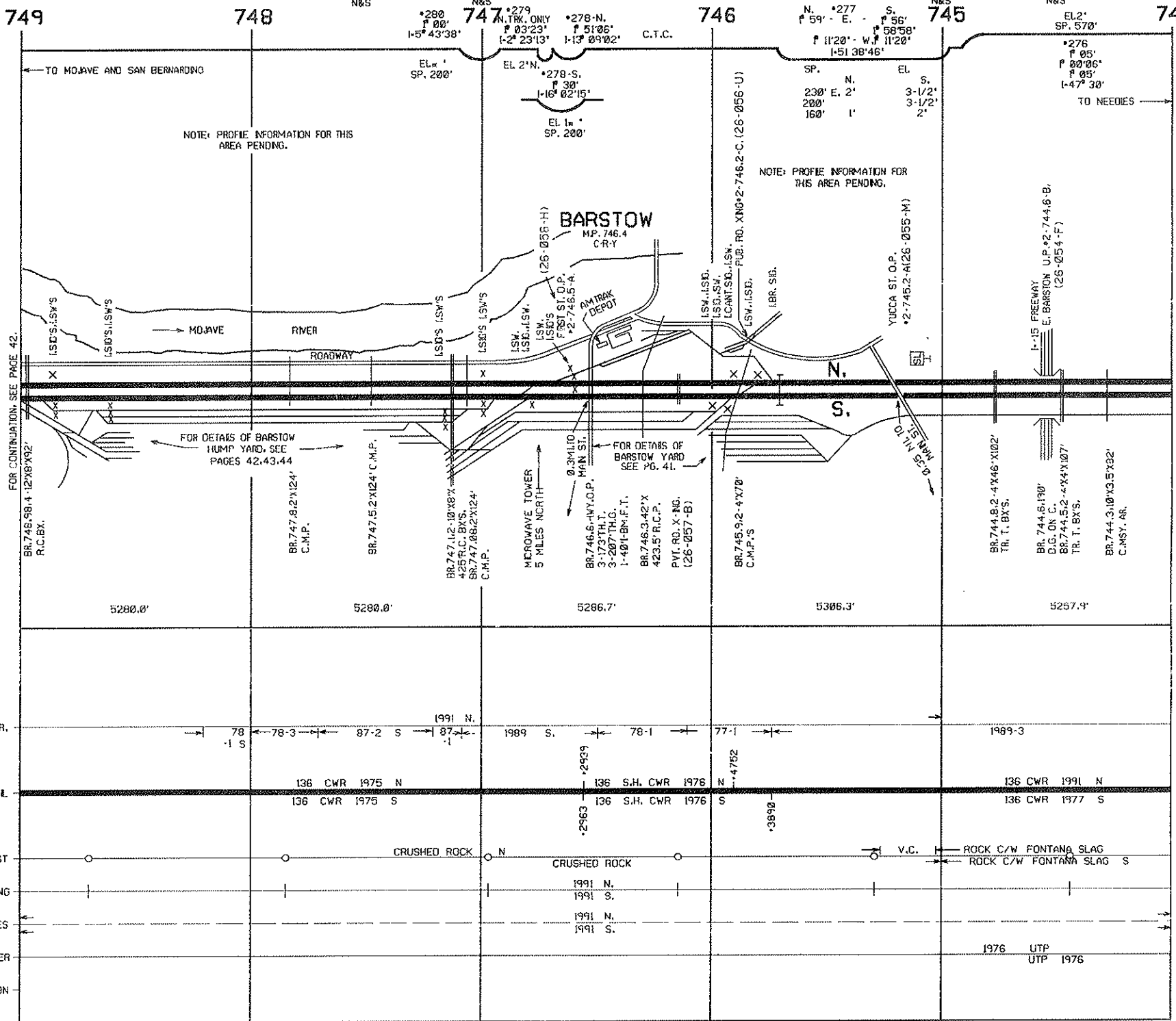


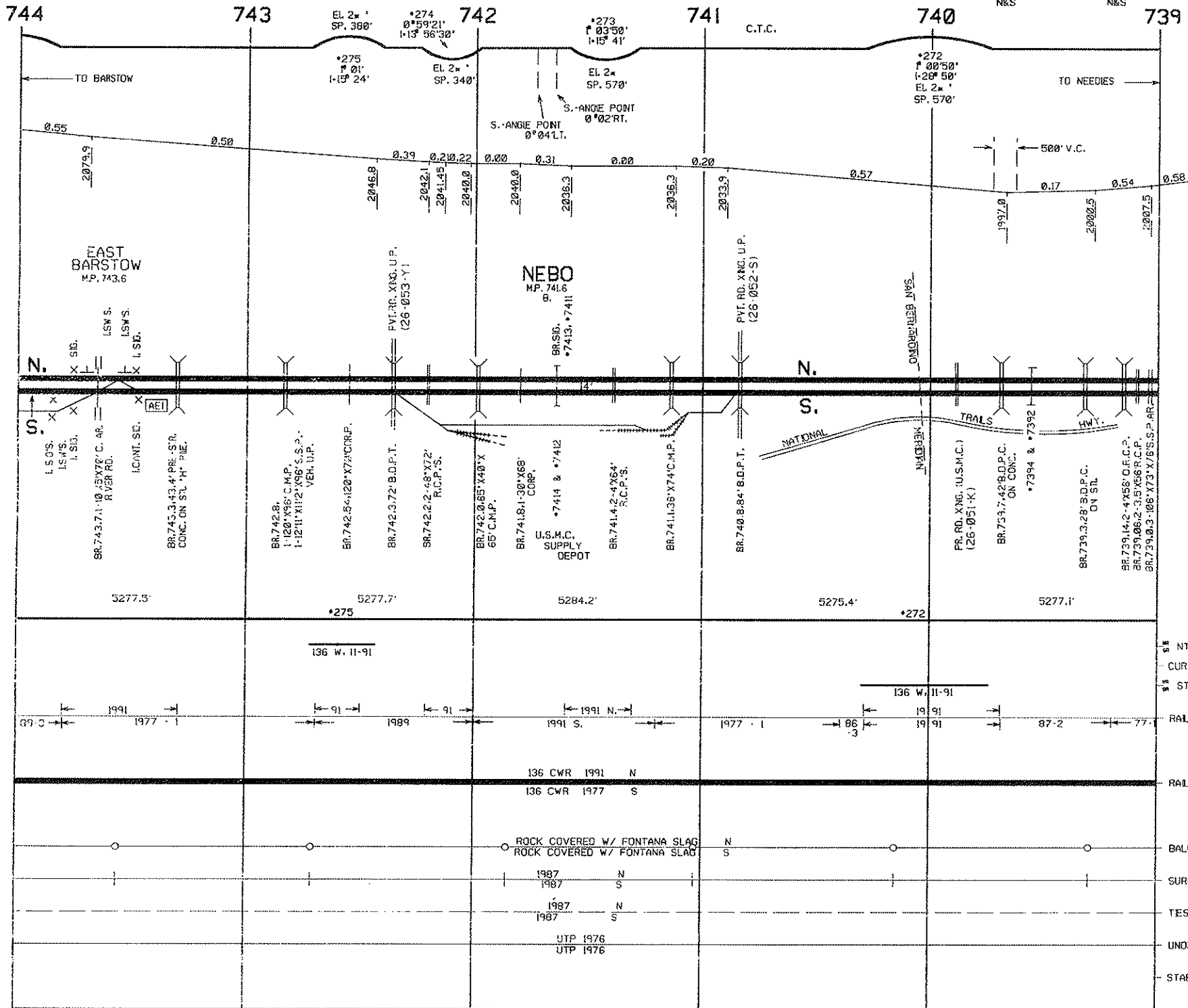


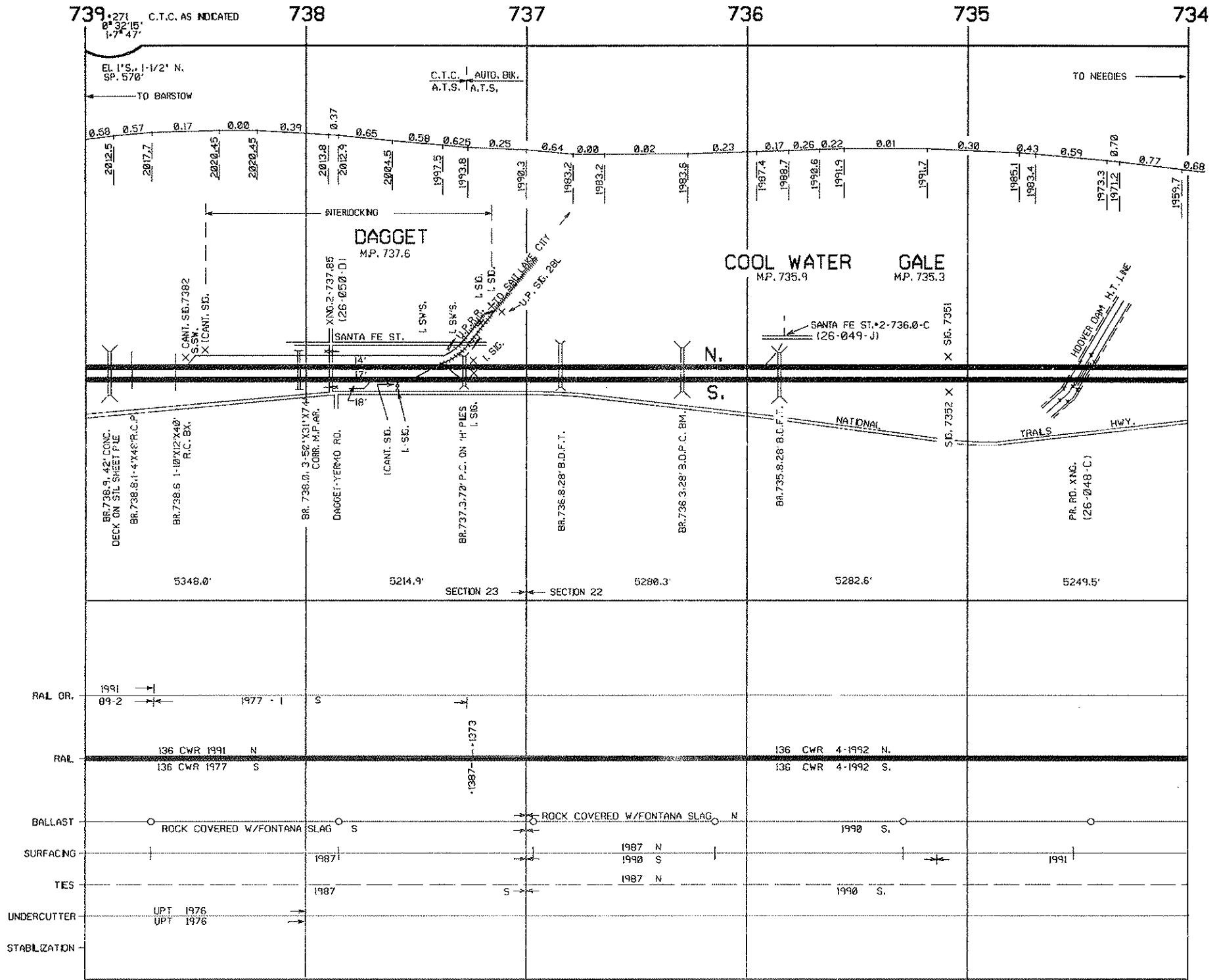
BARSTOW YARD
BARSTOW CALIFORNIA

<u>Working Yard Capacity</u>		<u>Total Yard Capacity</u>
Longest Track	133 cars	
Shortest Track	2 cars	
Total Capacity	2292 cars	

TRACK SPEED

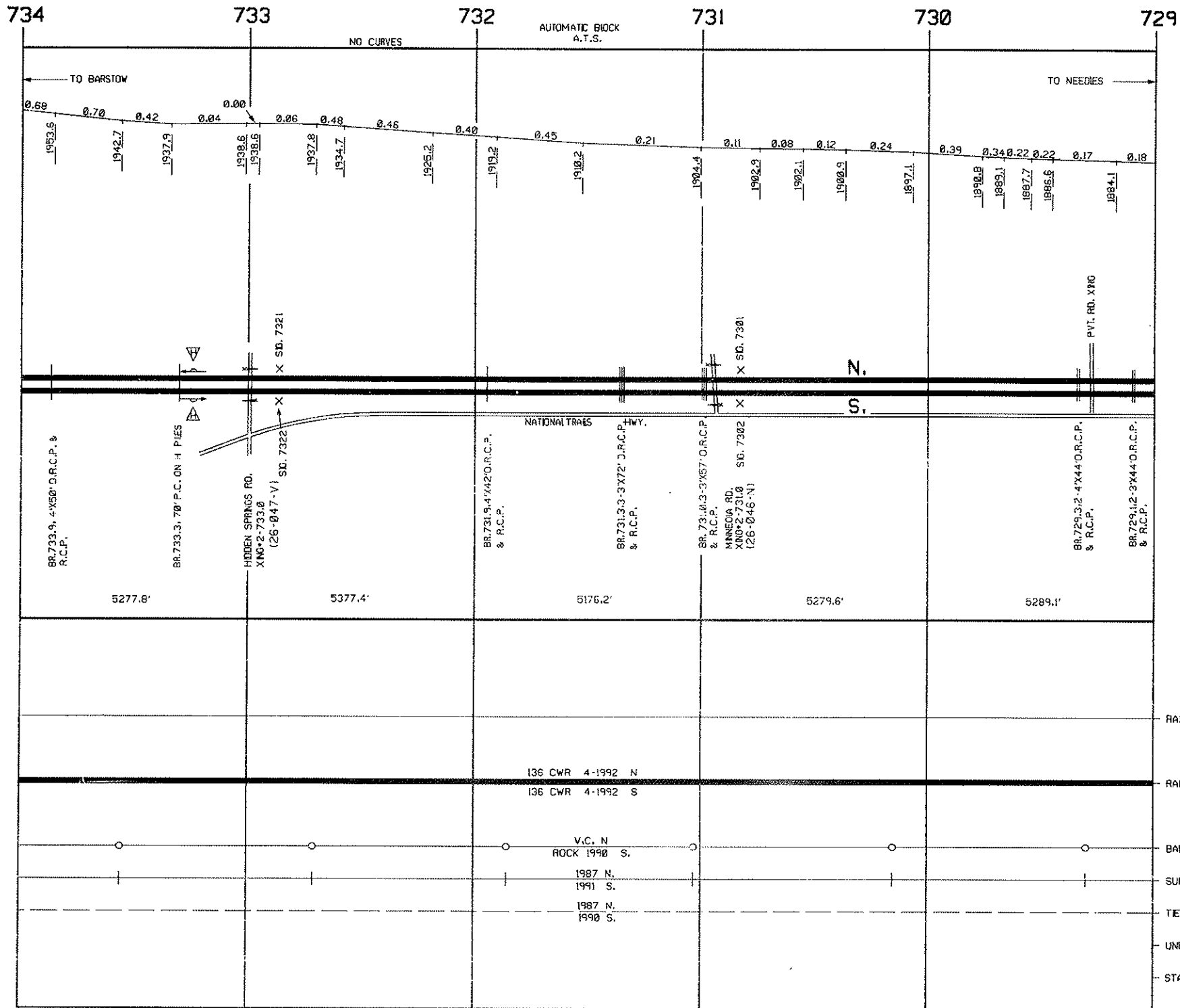


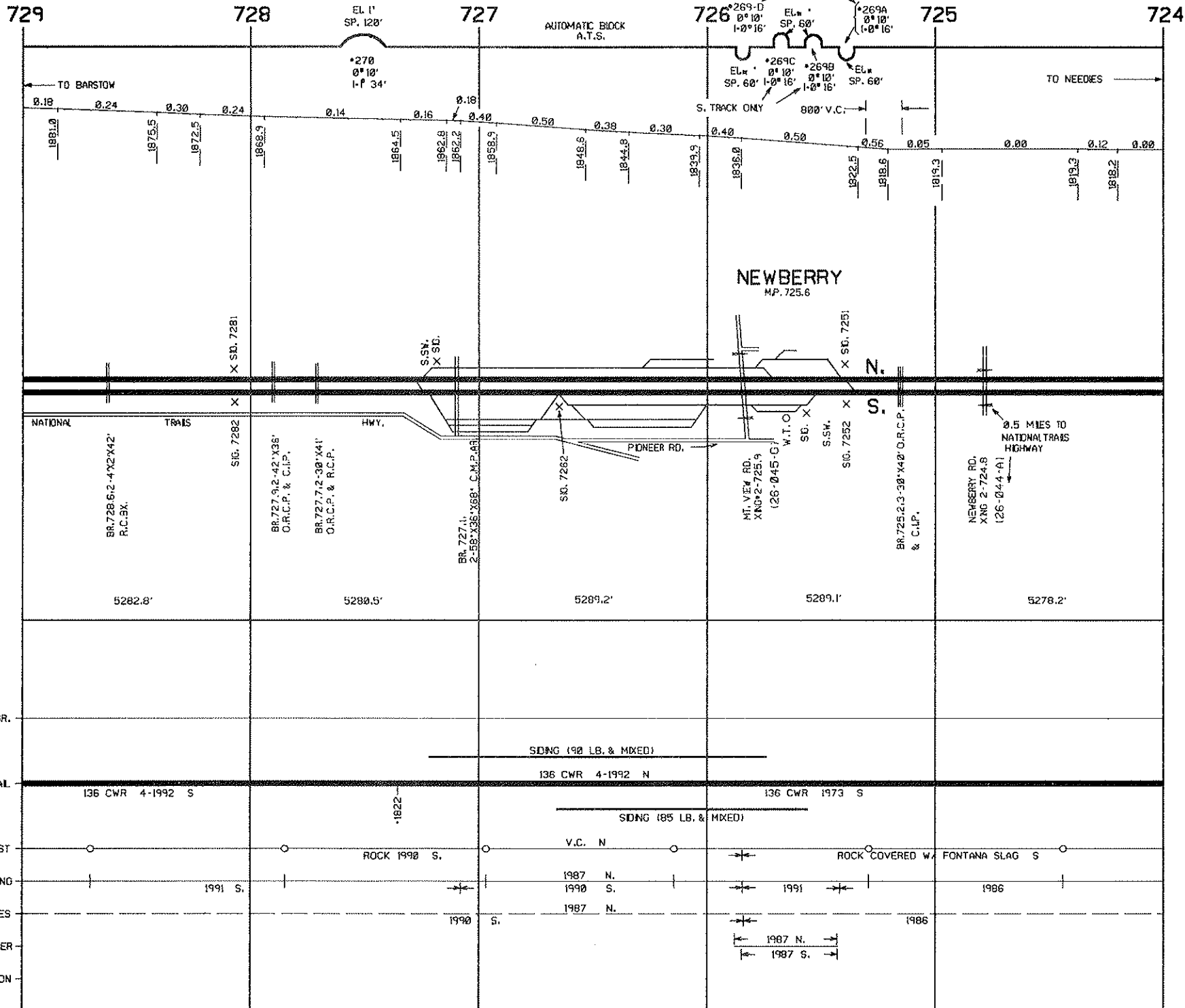


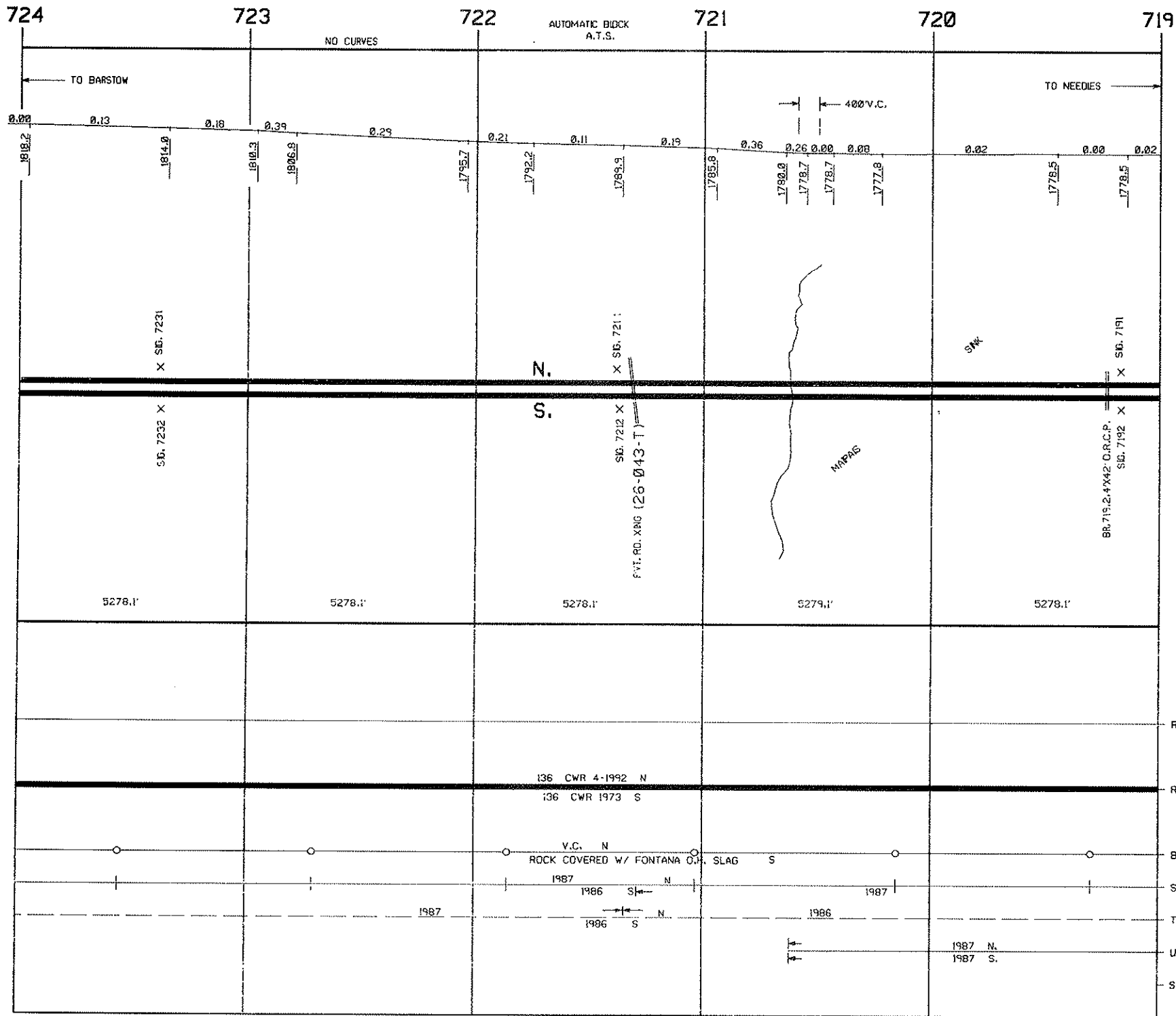


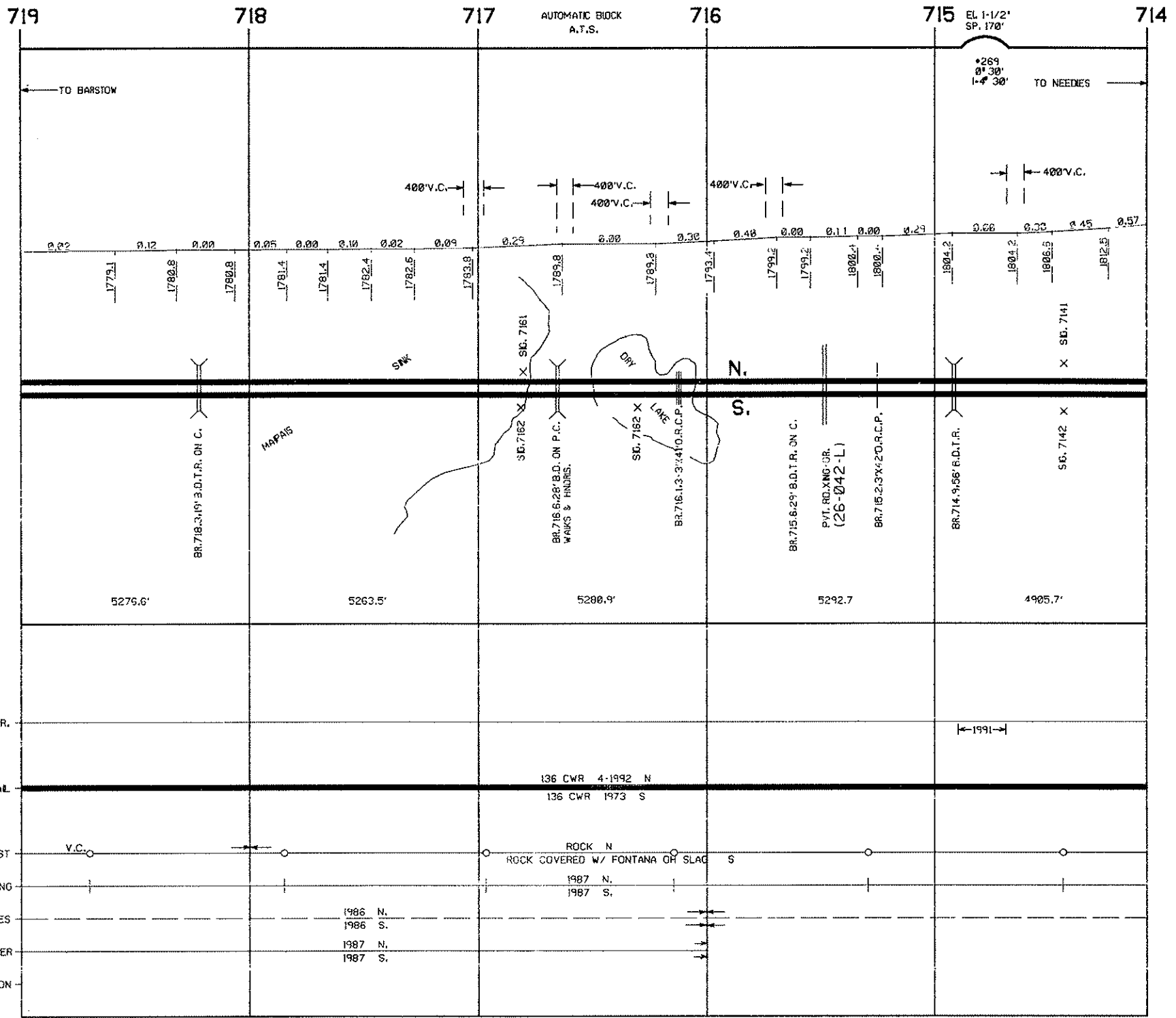
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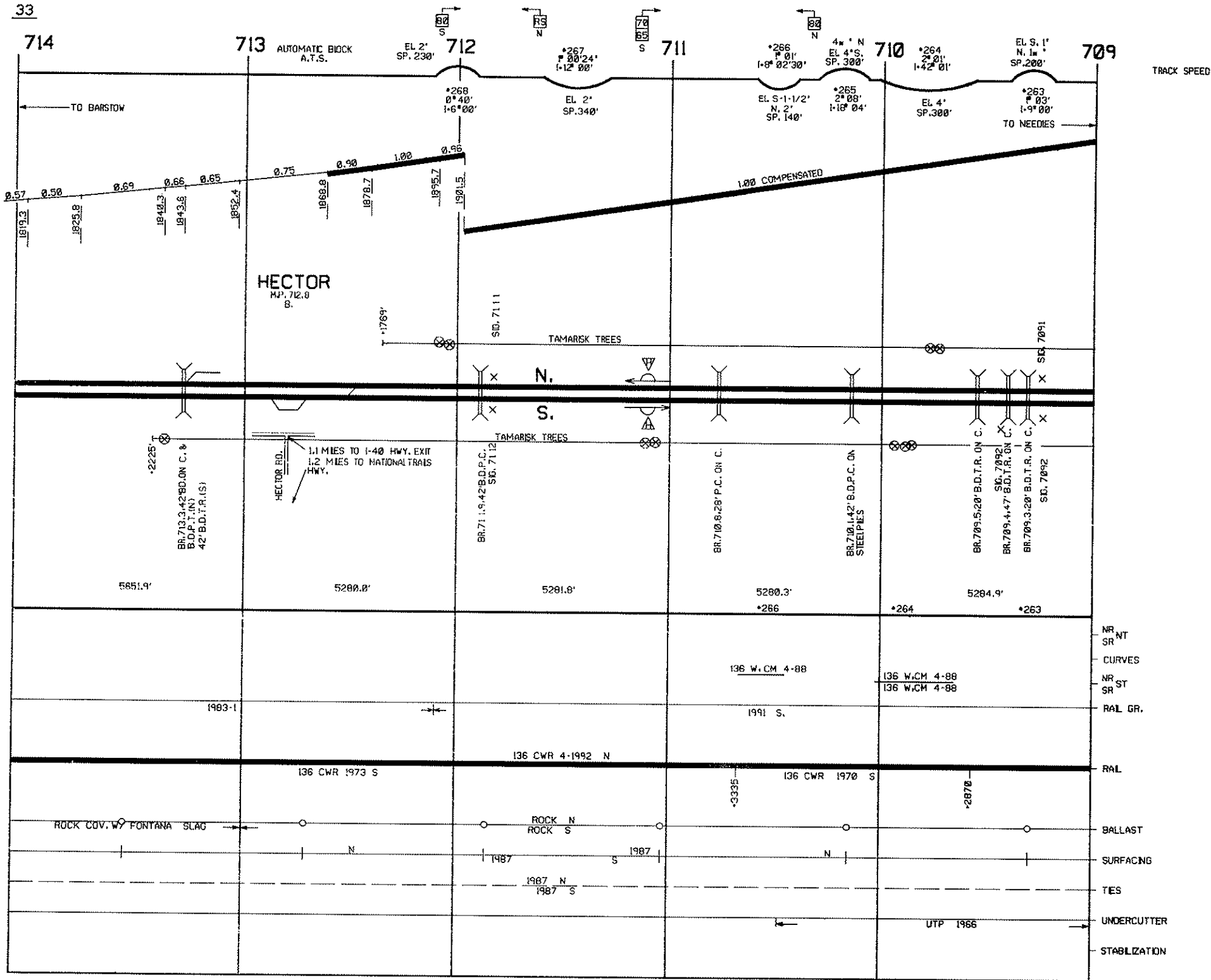




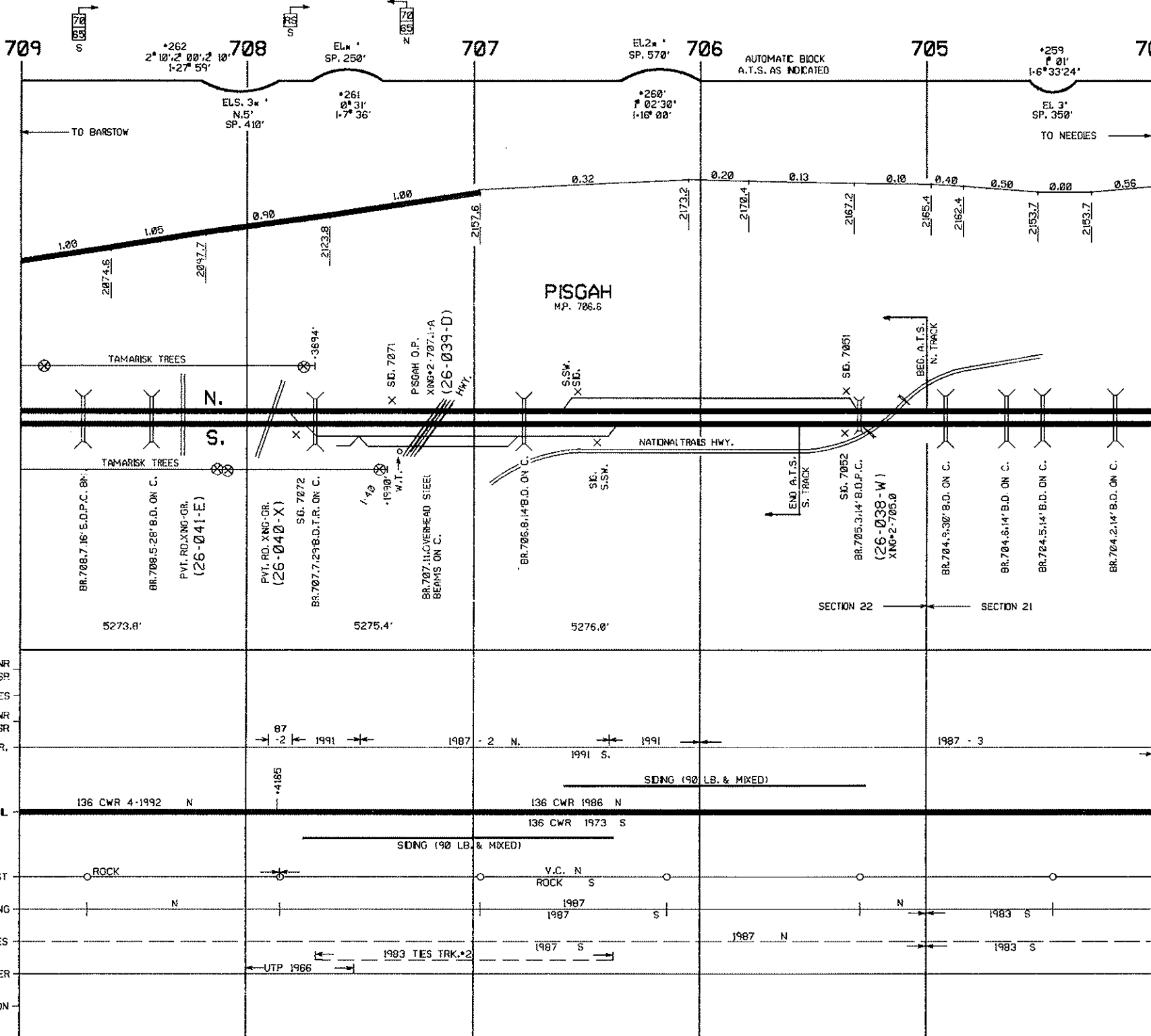


REVISED FEB. 1992

NEEDLES SUBDIVISION

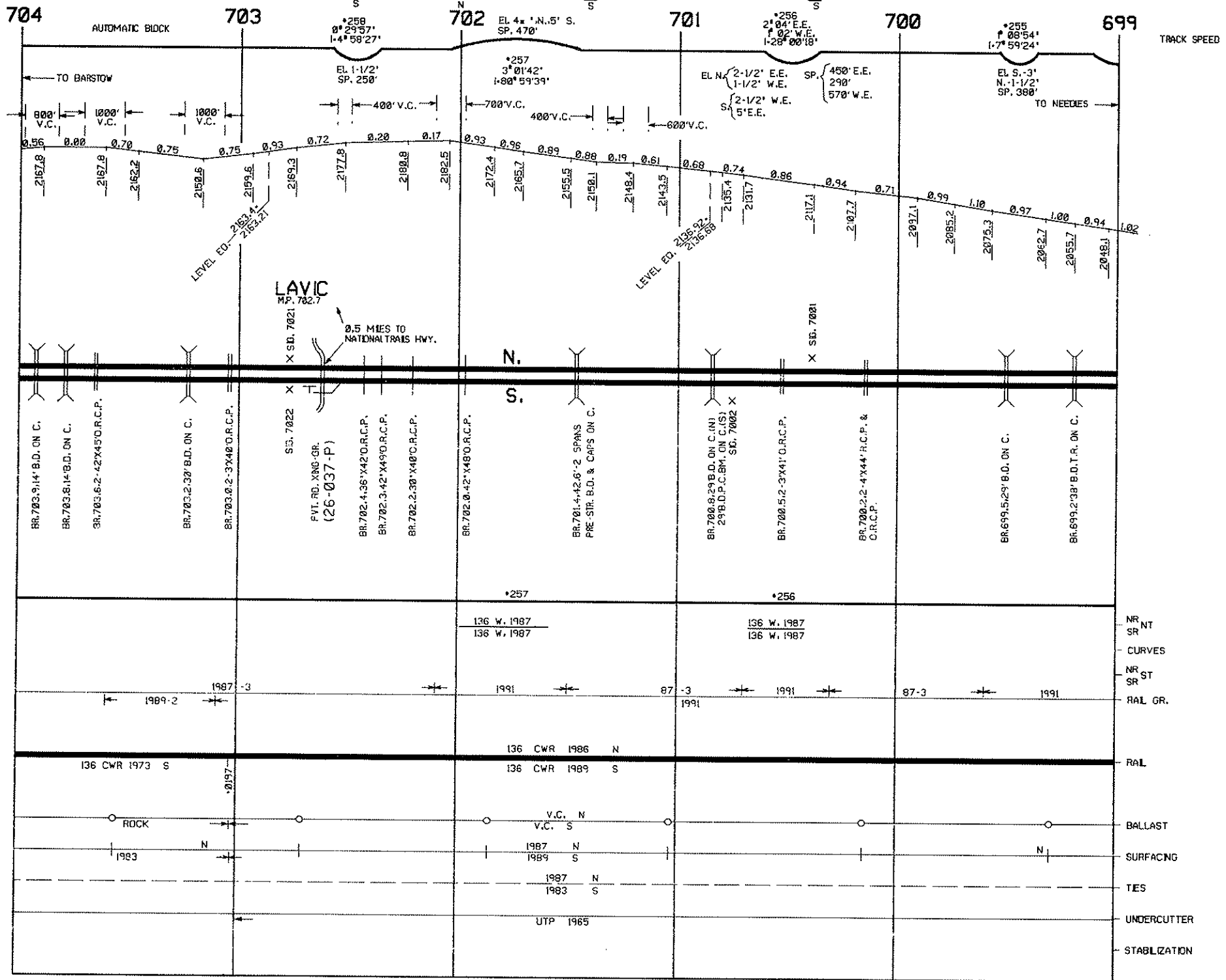


TRACK SPEED

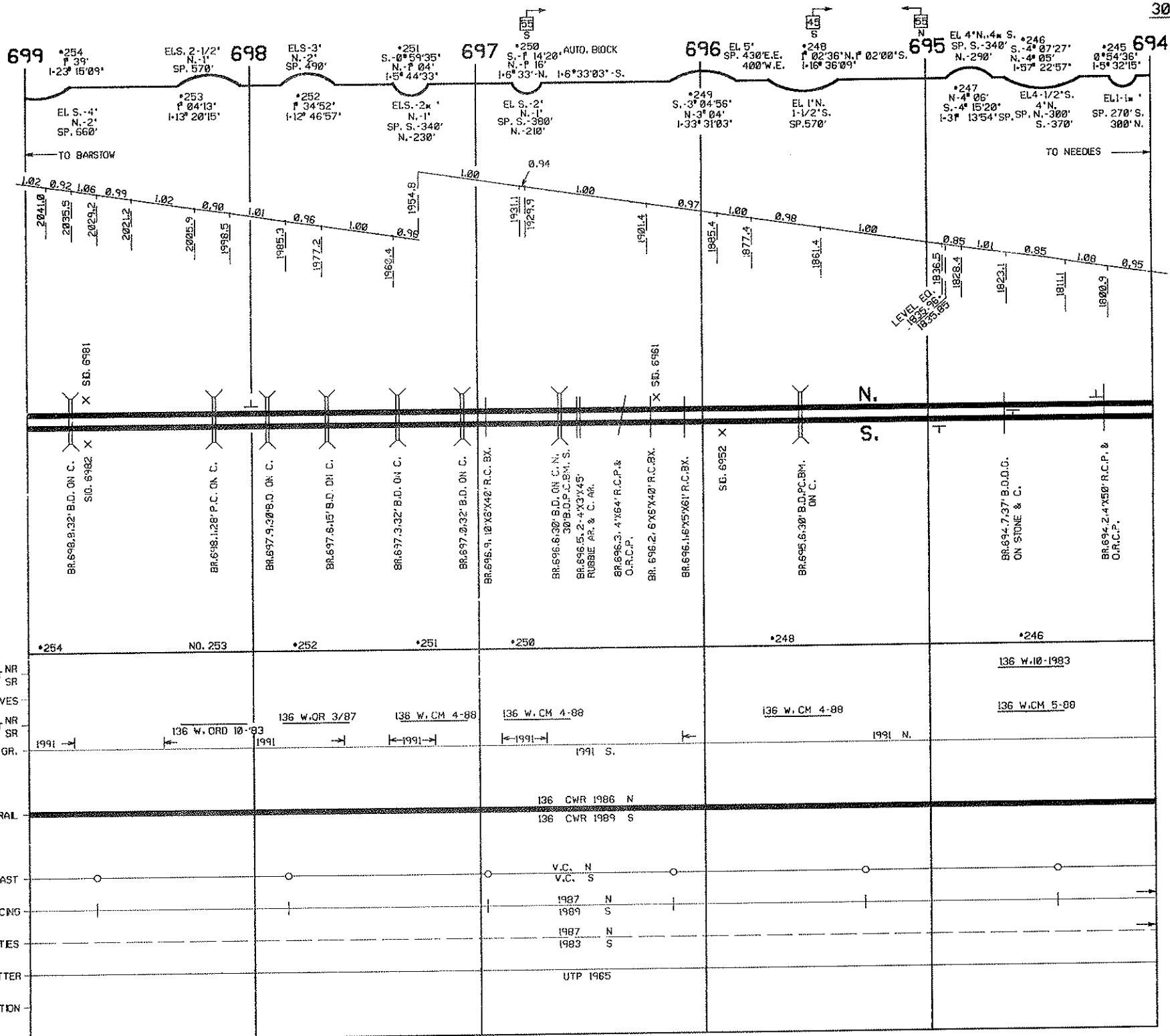


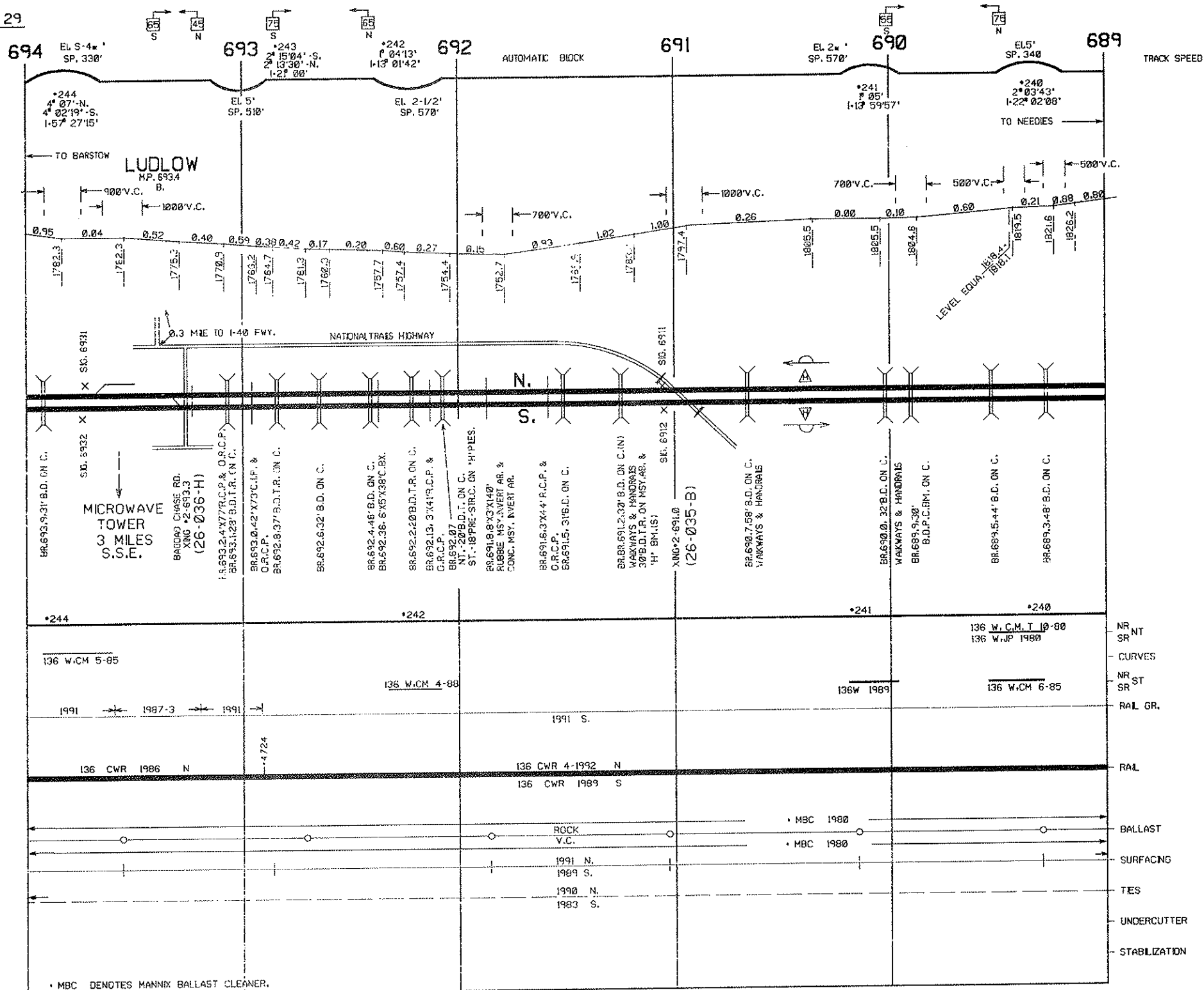
REVISED FEB. 1992

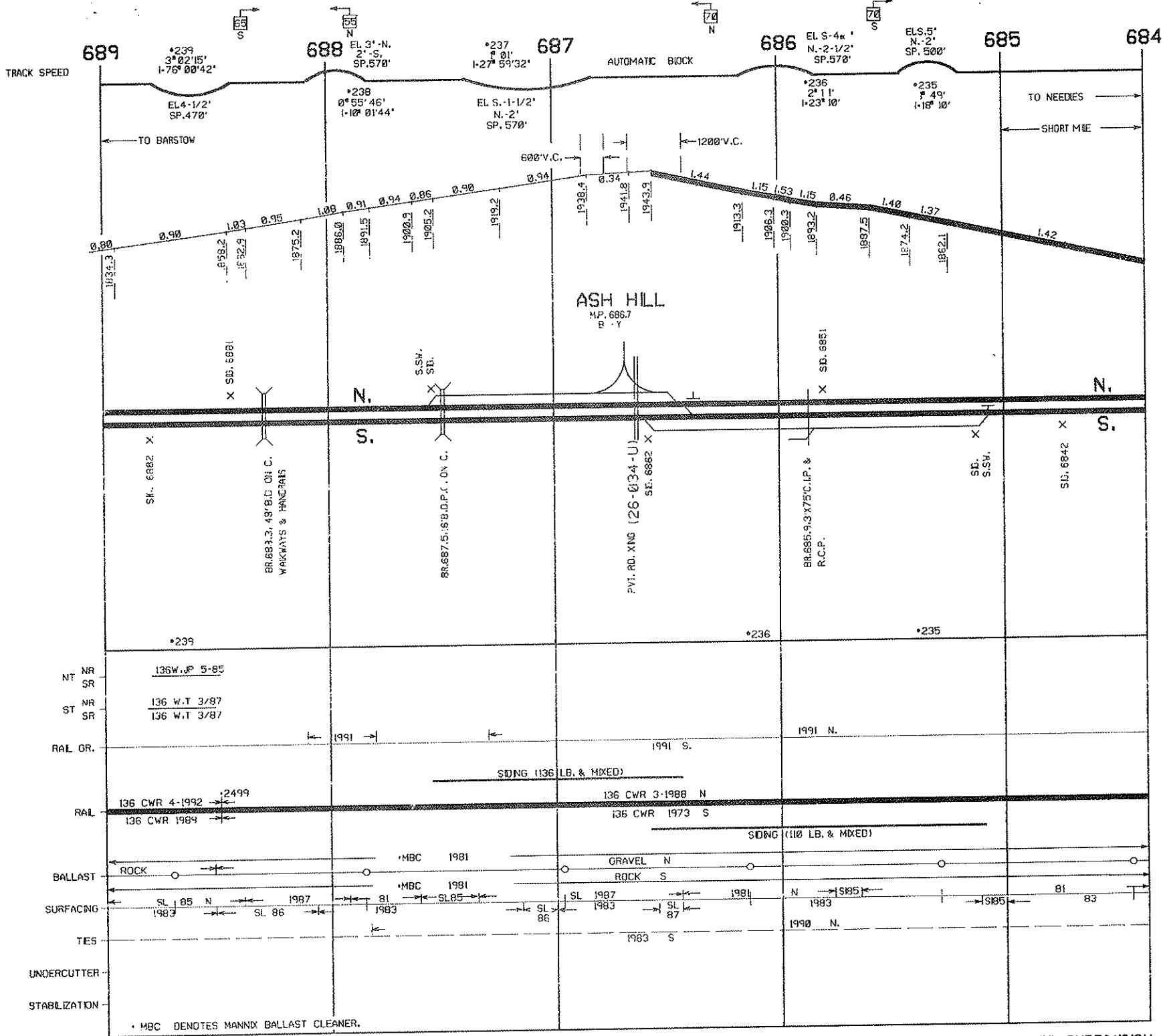
NEEDLES SUBDIVISION



TRACK SPEED



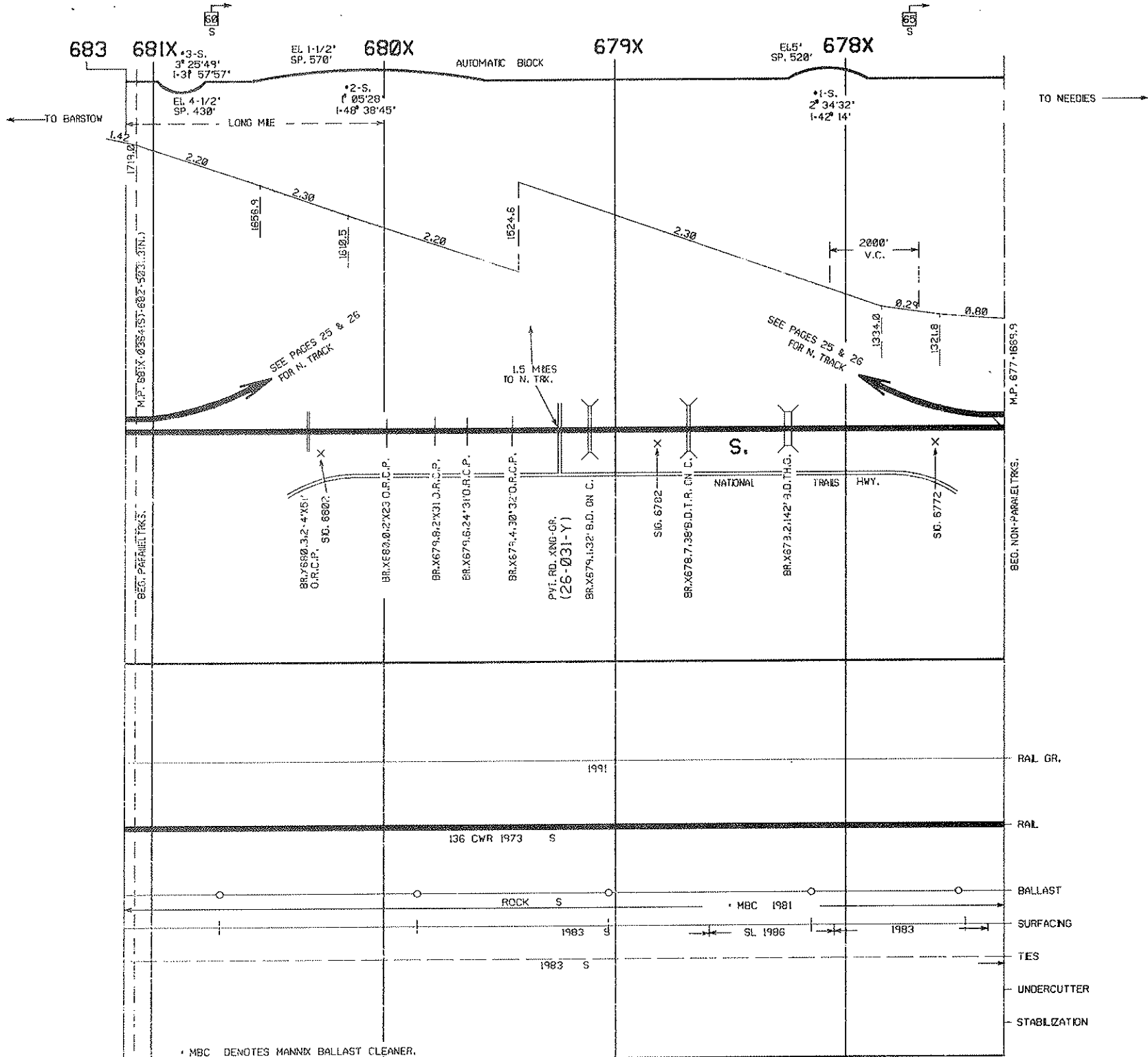


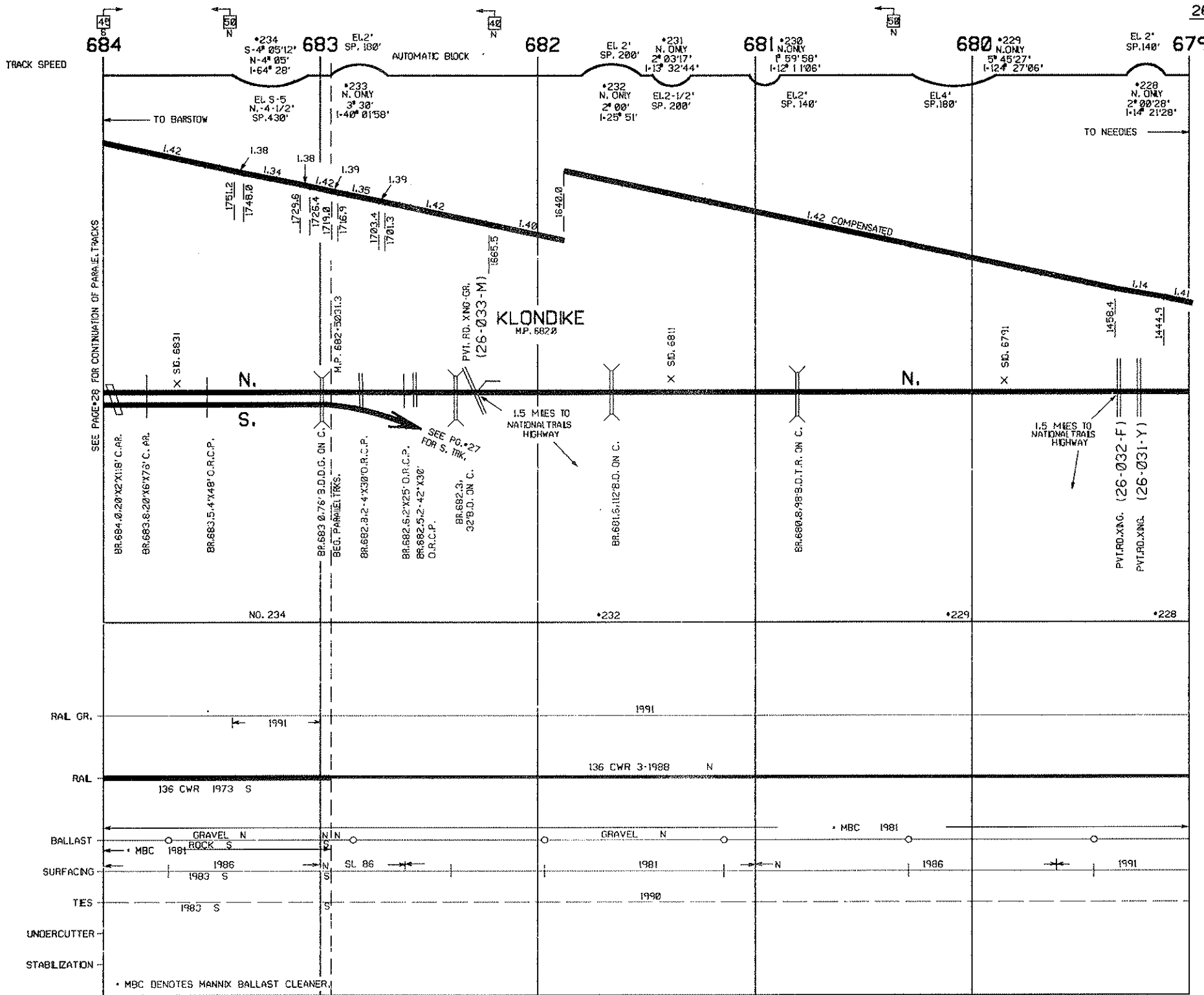


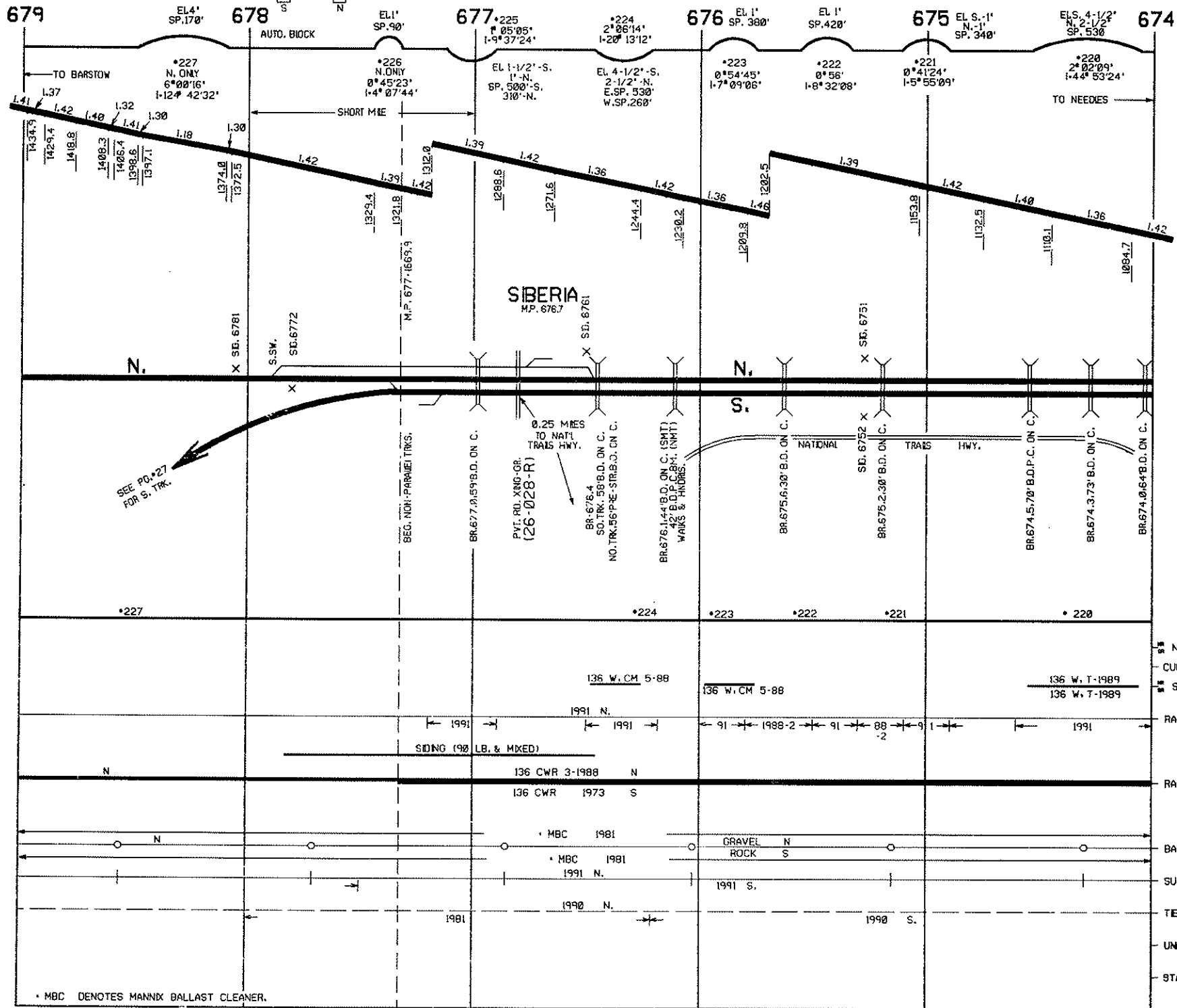
* MBC DENOTES MANNIX BALLAST CLEANER.

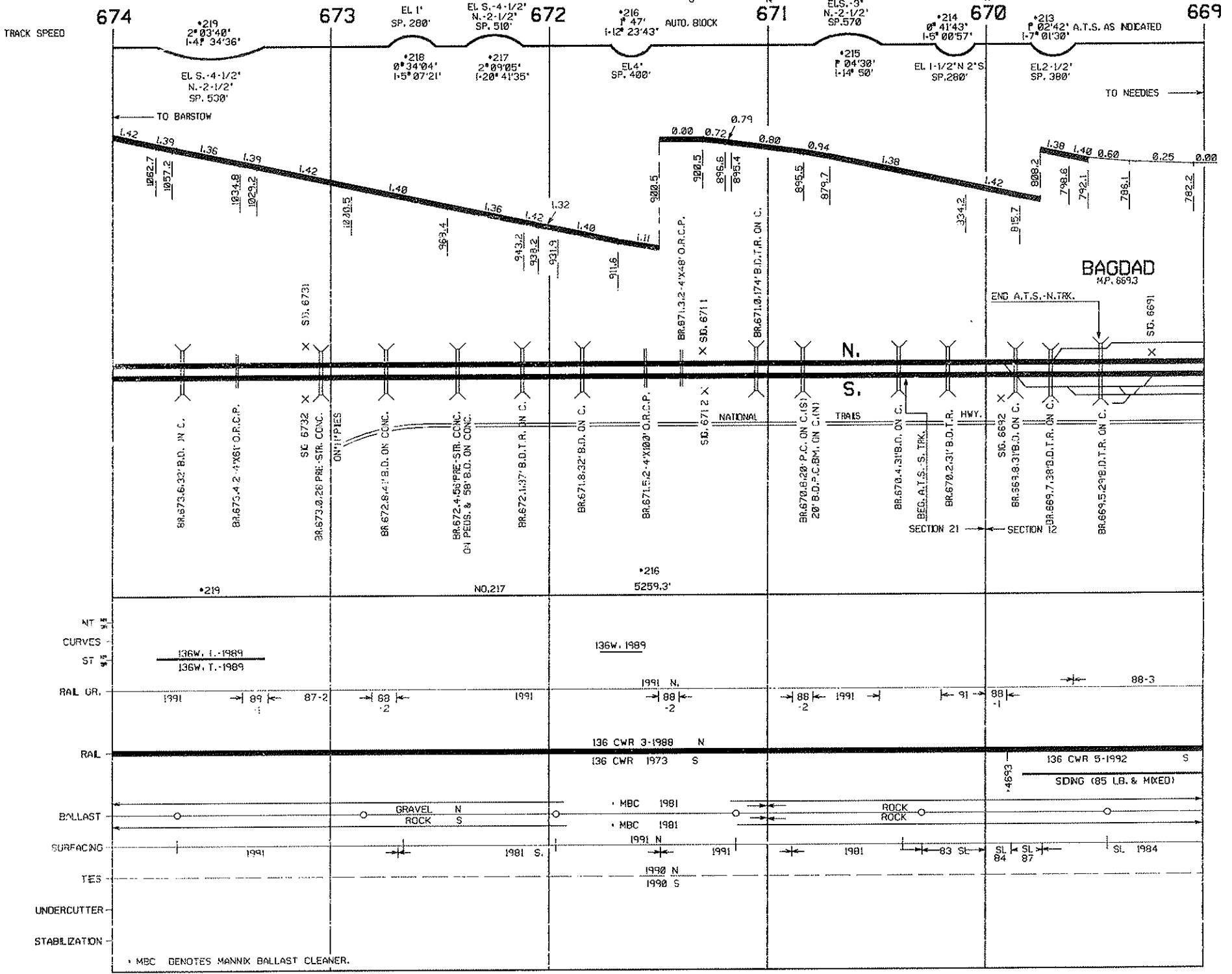
REVISED FEB. 1992

NEEDLES SUBDIVISION



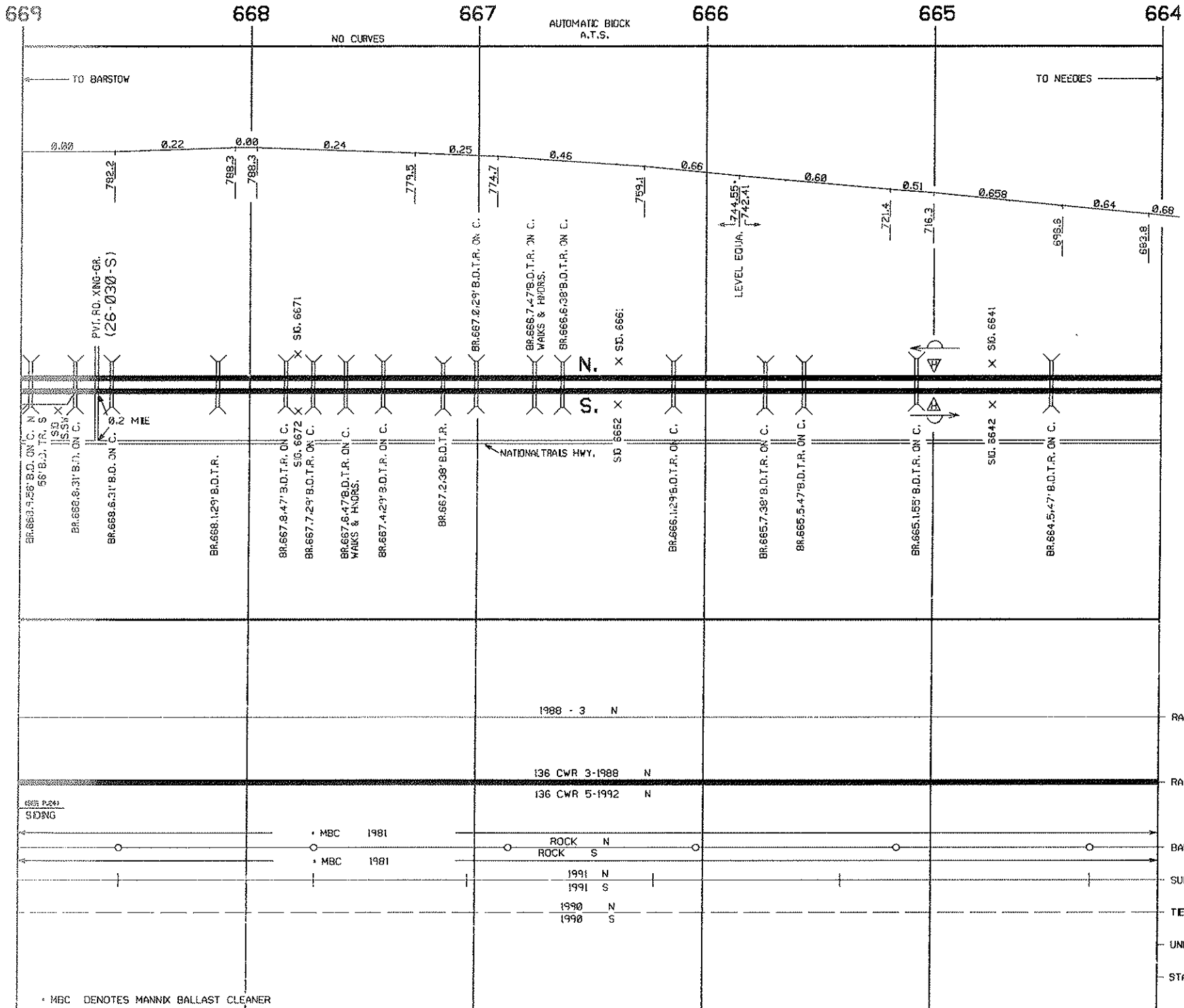


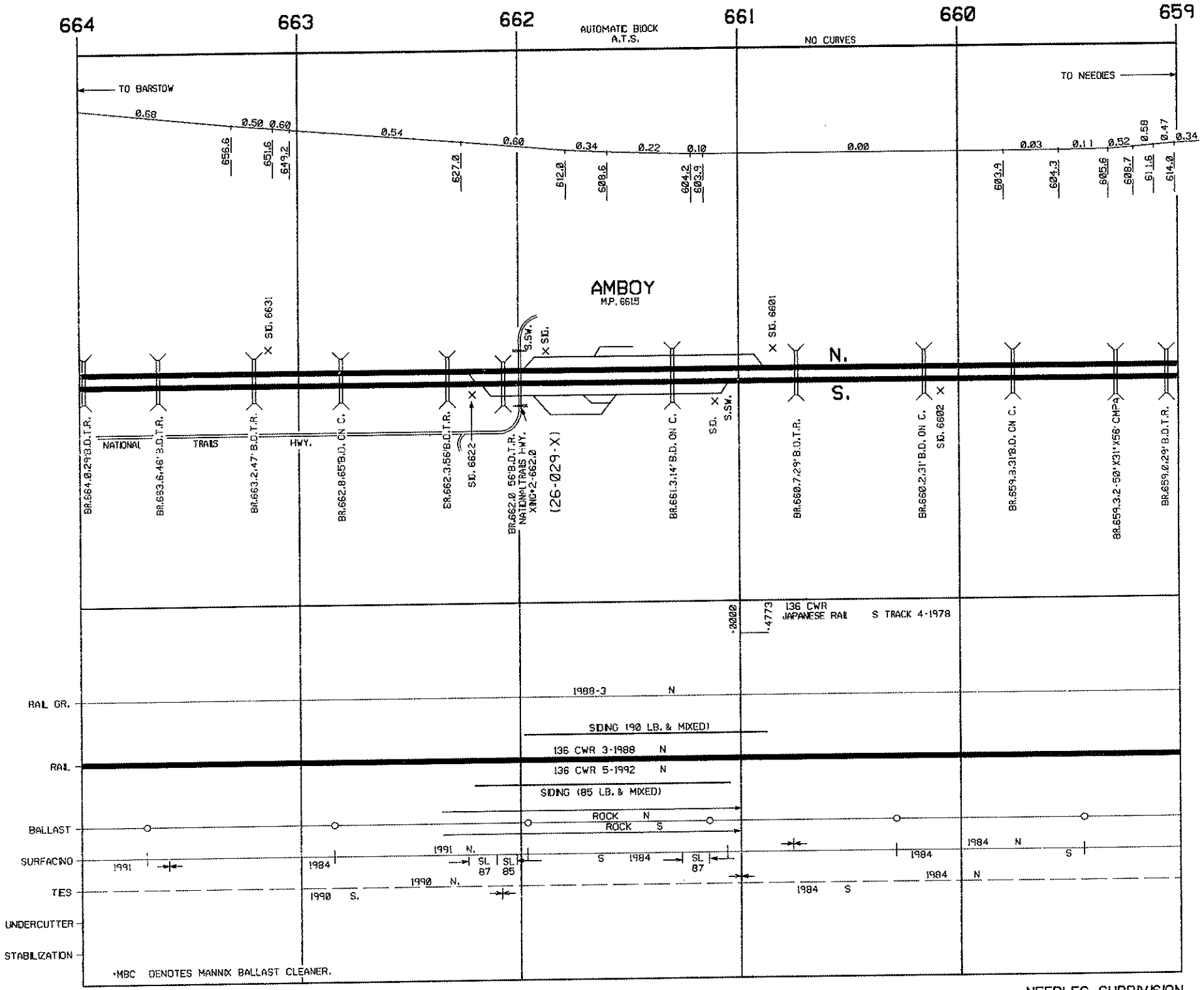




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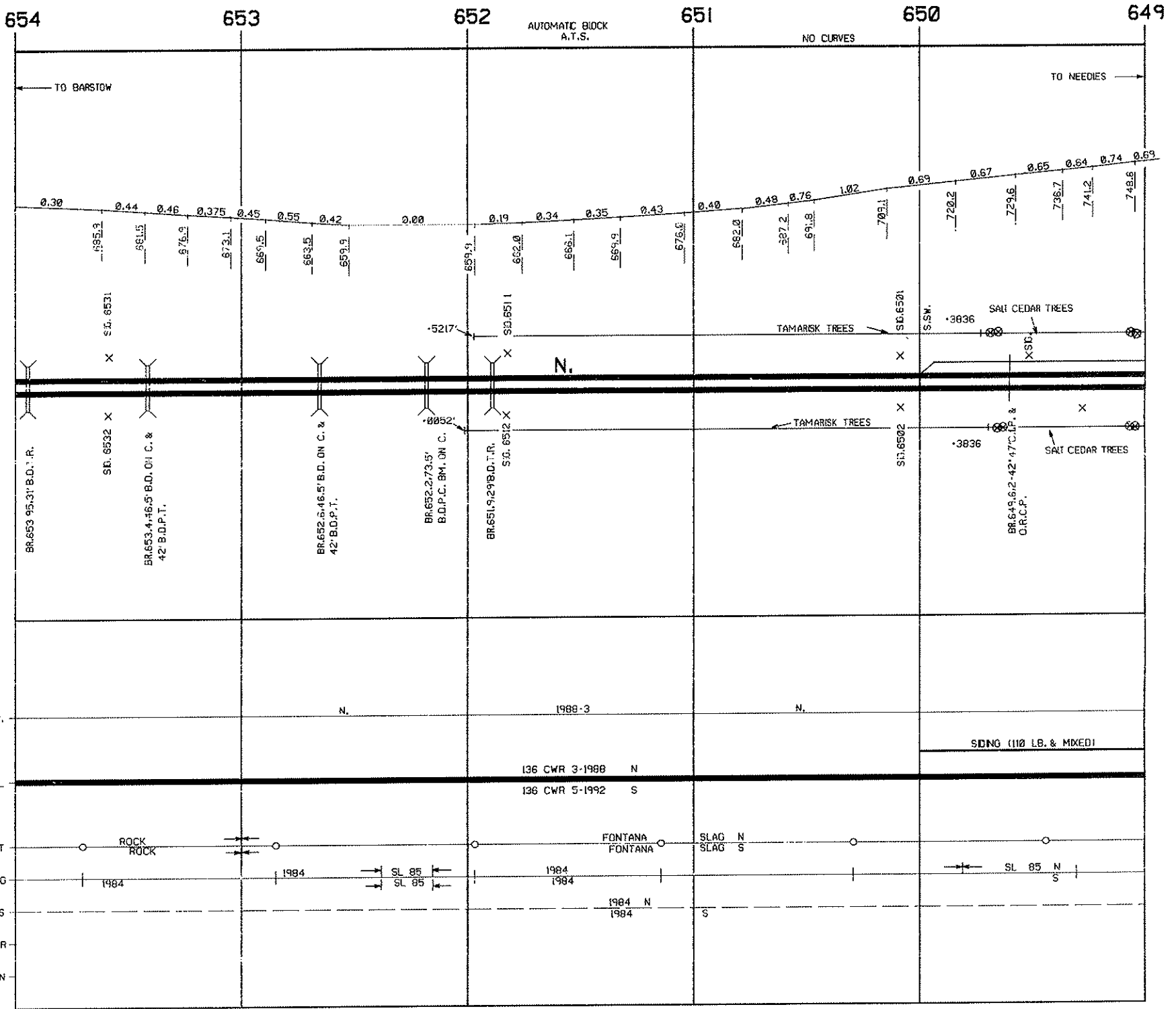
NEEDLES SUBDIVISION





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NEEDLES SUBDIVISION



REVISED FEB. 1992

NEEDLES SUBDIVISION

639 638 637 636 635 634

AUTOMATIC BLOCK
A.T.S. ON N. TRK.

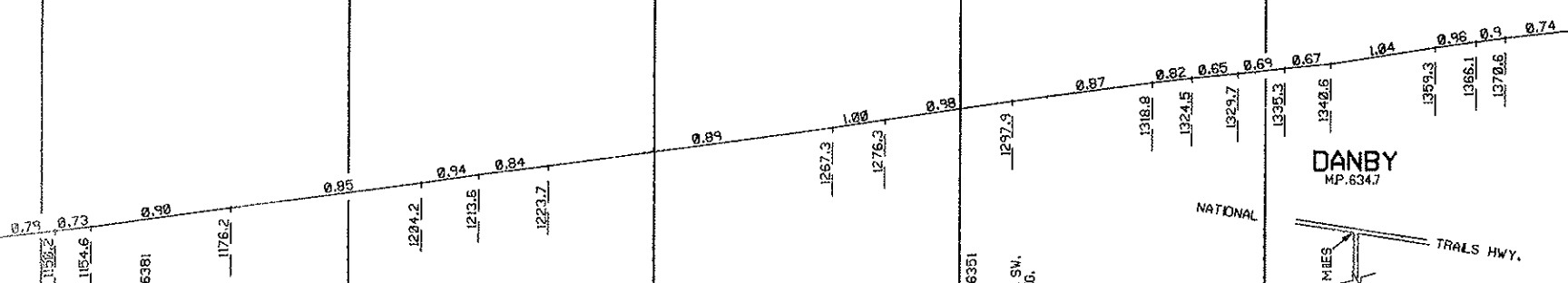
*203
0° 30'
1-5° 11'
EL. S. -1'
N. -2'
SP. 250'

EL. SP. 634
1° S. 100'
1-1/2° N. 250'
*202
0° 30'
1-5° 20'

TRACK SPEED

TO BARSTOW

TO NEEDLES



DANBY
MP. 634.7

NATIONAL

TRAILS HWY.

N.
S.

BR. 638.0-20' B.D. ON C. &
B.D.T.R. ON C.
SID. 6382 X

BR. 636.6-29' B.D.T.R. ON C.

S.D. 6352 X

S. SW.
X SIG.

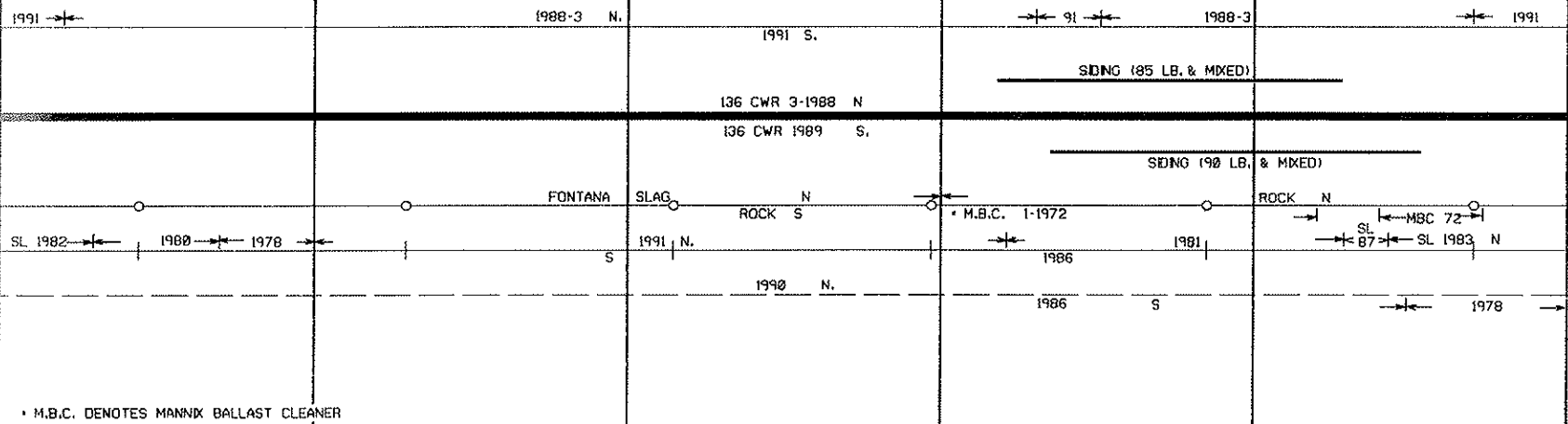
BR. 635.5-29' B.D.T.R. ON C.

BR. 635.0-216' D.T.R.

DANBY ROAD
XING 2-634.7
(26-025-V) S.W. X

BR. 634.2-42' B.D.P.C. BM.
WAKES & HAINES.

*203



* M.B.C. DENOTES MANNIX BALLAST CLEANER

TRACK SPEED

634

633

632

631

630

629

AUTOMATIC BLOCK
A.T.S. ON N. TRK.

*201
0° 30'
1-4° 51'

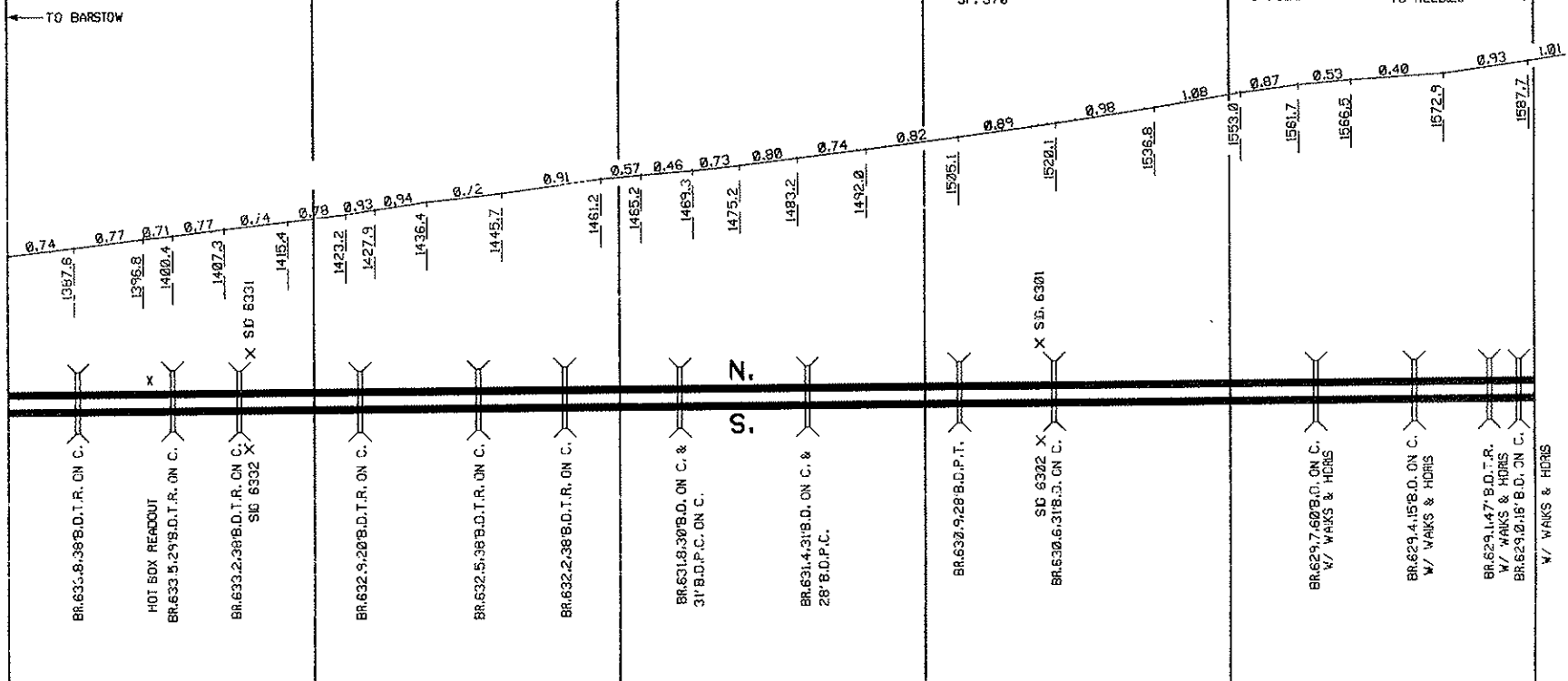
*200
0° 58'
1-1° 53'

*199
0° 14' 24"
1-7° 35'

EL. S. -1'
N. -2'
SP. 250'

EL. S. 2'
N. 3'
SP. 570'

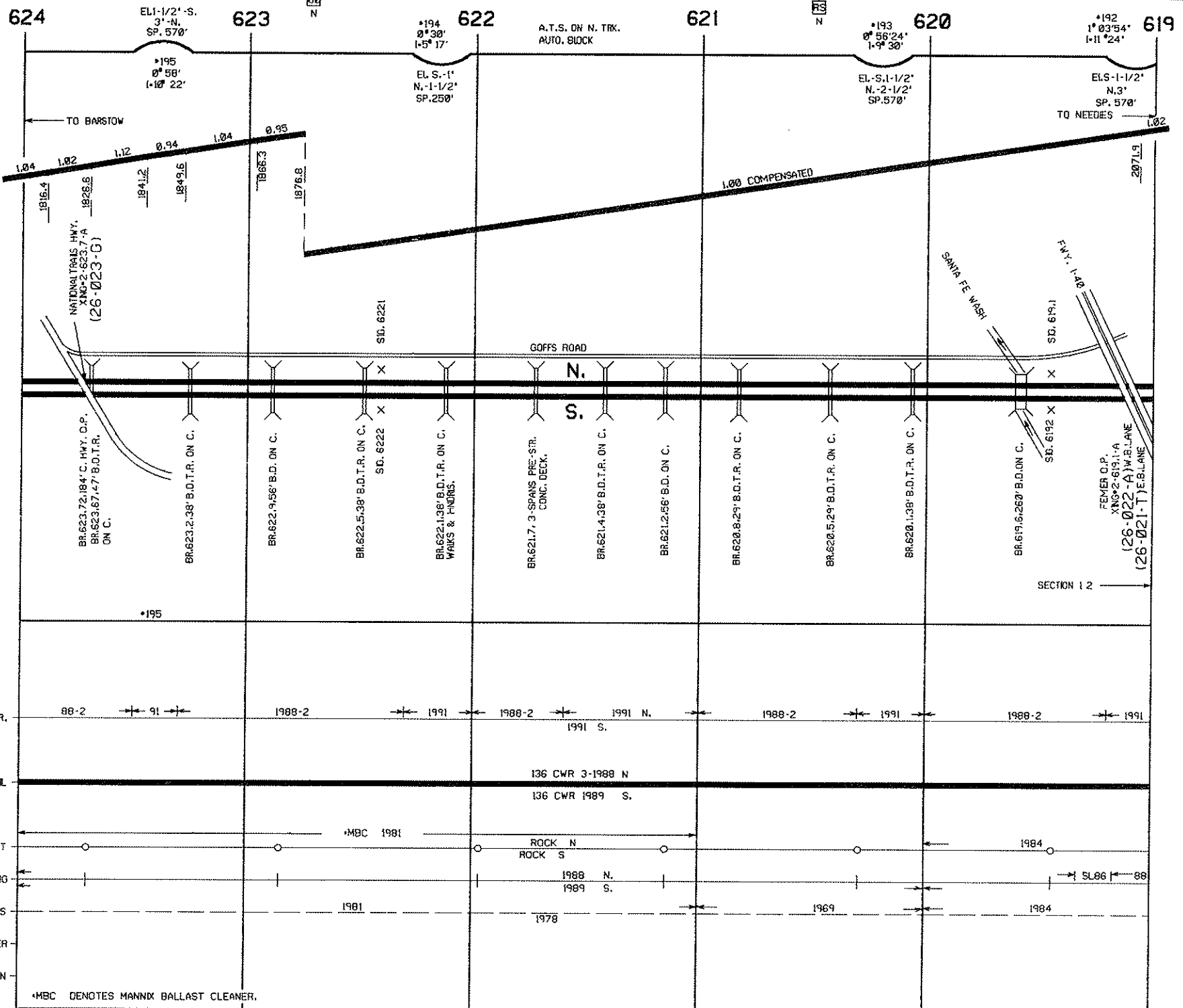
EL. S. -1'
N. -2-1/2'
SP. 320'



RAL GR.	1988-3	1991	1988-3 N 1991 S	1991	1988-3	1991	1988-3
RAL			136 CWR 3-1988 N 136 CWR 1989 S				
BALLAST			MBC 1981 1-1972		ROCK S	ROCK N	
SURFACING	SL 1983 N		1981 N 1986 S				SL 86 78 SL 1963 S
TIES		1990	1986 S	1981 N			1990 1978
UNDERCUTTER							
STABILIZATION							

* M.B.C. DENOTES MANNIX BALLAST CLEANER.

TRACK SPEED



RAIL GR.	88-2	91	1988-2	1991	1988-2	1991 N.	1988-2	1991	1988-2	1991
RAIL					136 CWR 3-1988 N	1991 S.				
BALLAST			MBC 1981		ROCK N	ROCK S			1984	
SURFACING					1988 N.	1989 S.			5L86	88
TES			1981			1978		1969	1984	
UNDERCUTTER										
STABILIZATION										

*MBC DENOTES MANNIX BALLAST CLEANER.

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NEEDLES SUBDIVISION

619^S

618

617

616

615

614

AUTOMATIC BLOCK
A.T.S. ON N. TRK.

EL S. -1'
N. -1-1/2'
SP. 250'

EL S. -1-1/2'
N. -2-1/2'
SP. 380

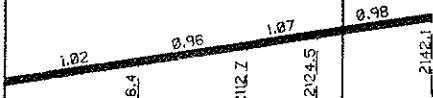
TRACK SPEED

TO BARSTOW

TO NEEDIES

FENNER
MP. 618.7

1.00 COMPENSATED



BR. 618.4-45' B.D.T.R. ON C.
S. SK.

BR. 617.56' B.D.T.R. ON C.

BR. 616.838' B.D.T.R. ON C.

BR. 615.838' B.D.T.R. ON C.

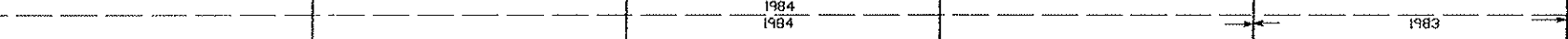
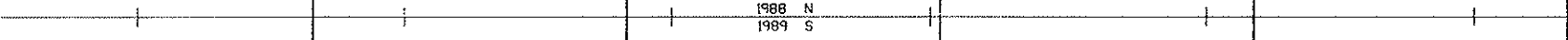
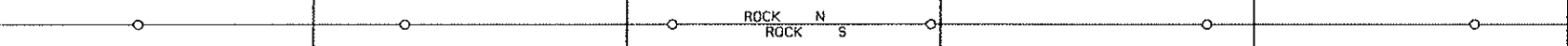
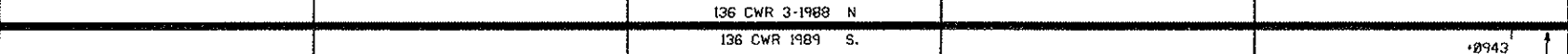
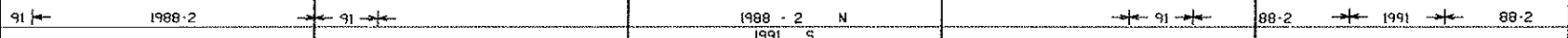
BR. 615.738' B.D.T.R. ON C.

BR. 615.038' B.D.T.R. ON C.
WAKES & HANDS.

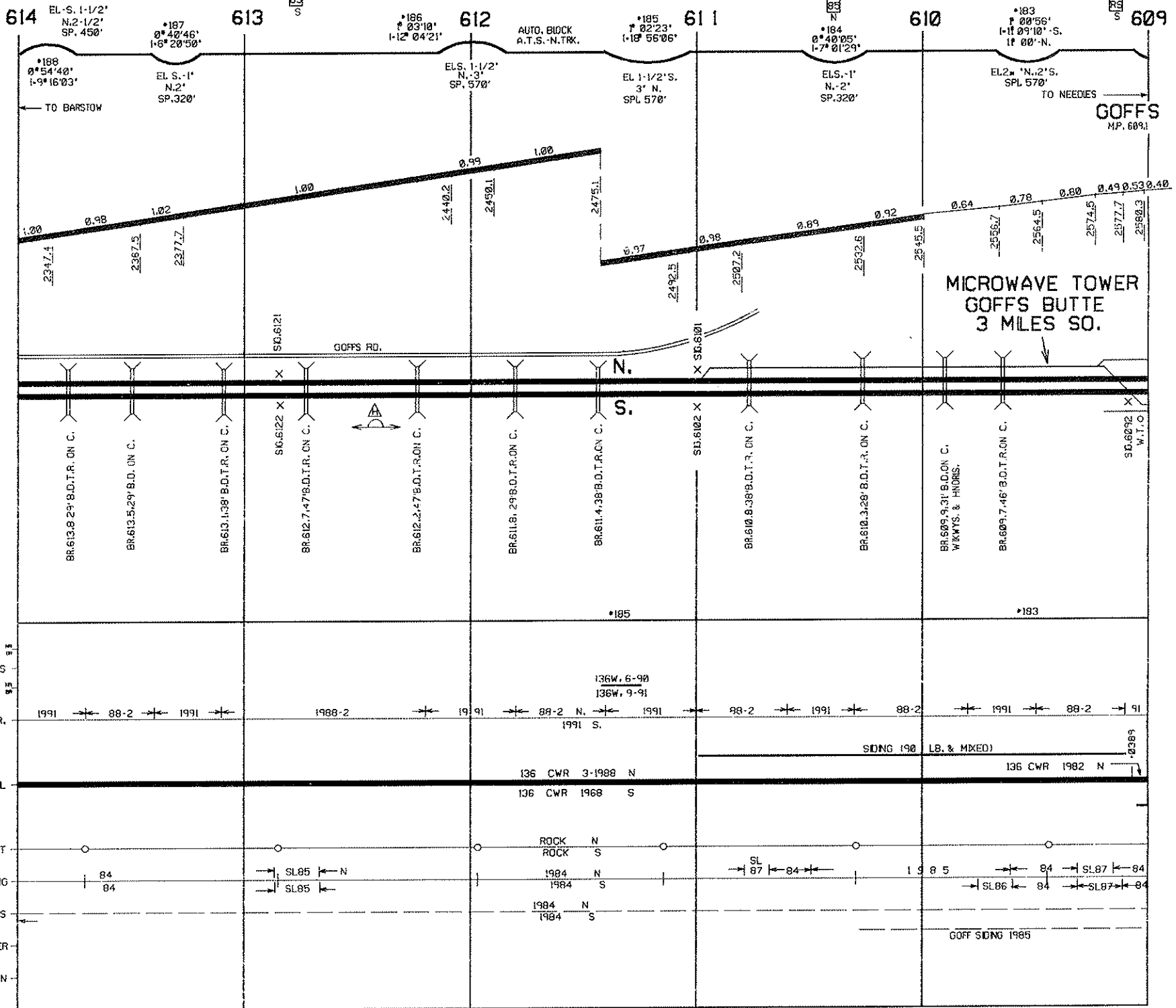
BR. 614.537' B.D.T.R. ON C.

BR. 614.228' B.D.T.R. ON C.

SECTION 11



TRACK SPEED



614 EL. S. 1-1/2' N. 2-1/2' SP. 450'

613

612

611

610

609

*188
0° 54' 40"
1-9° 16' 03"
TO BARSTOW

*187
0° 40' 46"
1-6° 20' 50"
EL. S. -1'
N. 2'
SP. 320'

*186
0° 23' 10"
1-12° 04' 21"
EL. S. 1-1/2'
N. 3'
SP. 570'

*185
0° 22' 23"
1-18° 56' 06"
EL. 1-1/2' S.
3' N.
SPL. 570'

*184
0° 40' 05"
1-7° 01' 29"
EL. S. -1'
N. 2'
SP. 320'

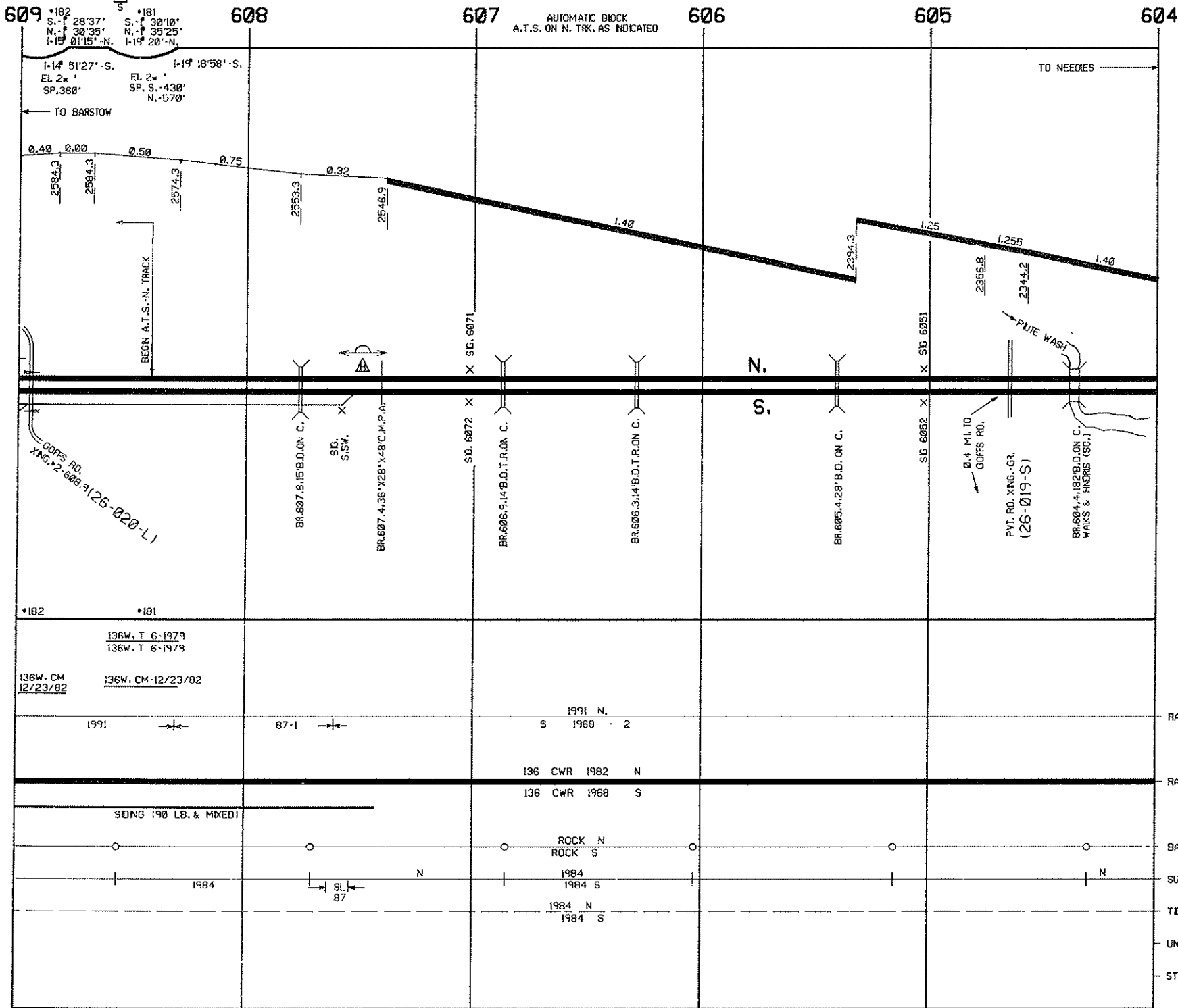
*183
0° 00' 56"
1-11° 09' 10"
1-1° 00' -N.
EL. 2' N. 2' S.
SPL. 570'

GOFFS
MP. 609.1

GOFFS RD.

MICROWAVE TOWER
GOFFS BUTTE
3 MILES SO.

NT
CURVES
ST
RAL GR.
RAL
BALLAST
SURFACING
TES
UNDERCUTTER
STABILIZATION



TRACK SPEED

*182 *181

136W. T 6-1979
136W. T 6-1979

136W. CM
12/23/82 136W. CM-12/23/82

1991 87-1

1991 N.
S 1969 - 2

136 CWR 1982 N
136 CWR 1969 S

SING 198 LB. & MIXED

1984

SL
87

ROCK N
ROCK S
1984
1984 S
1984 N
1984 S

RAIL GR.

RAIL

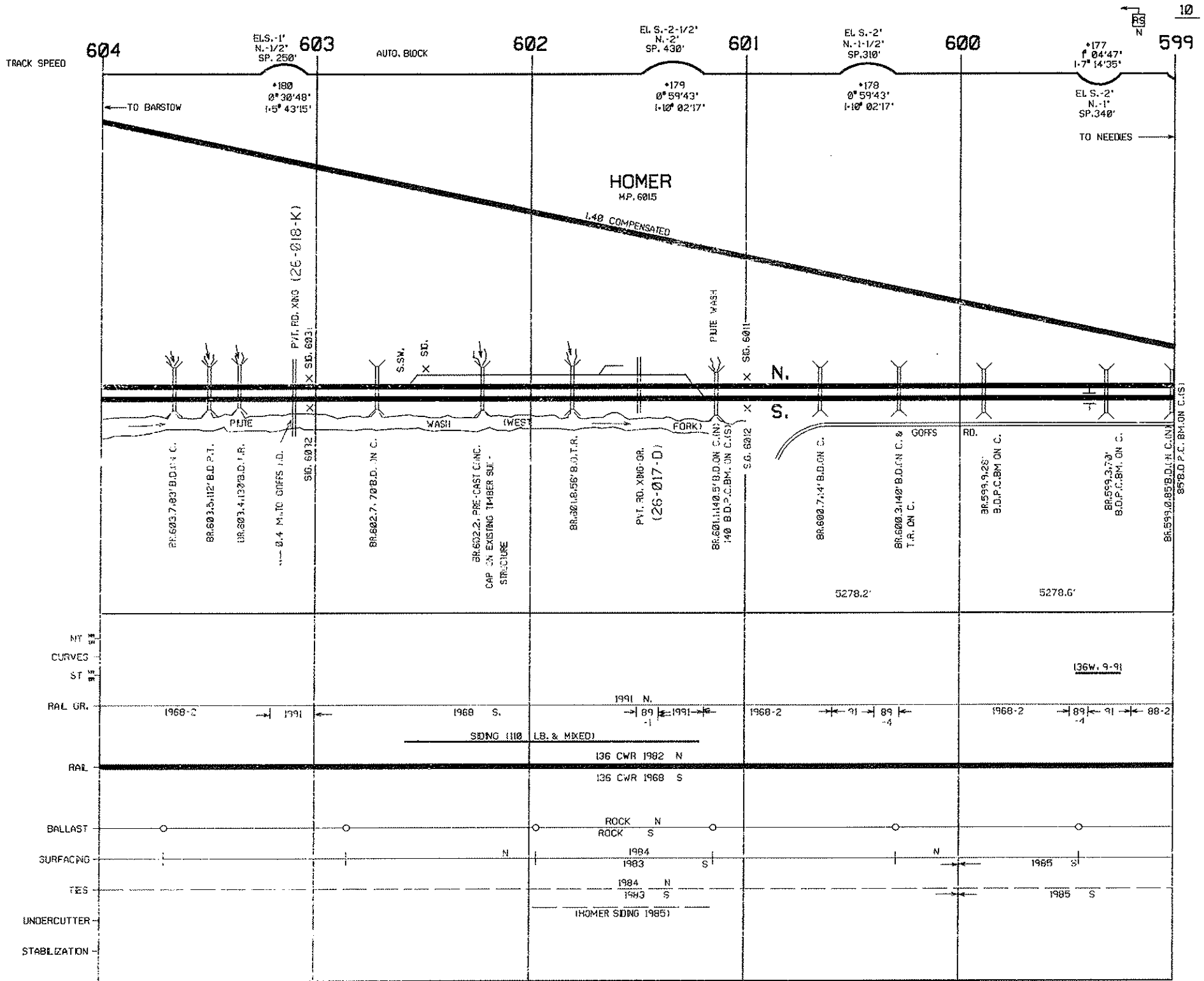
BALLAST

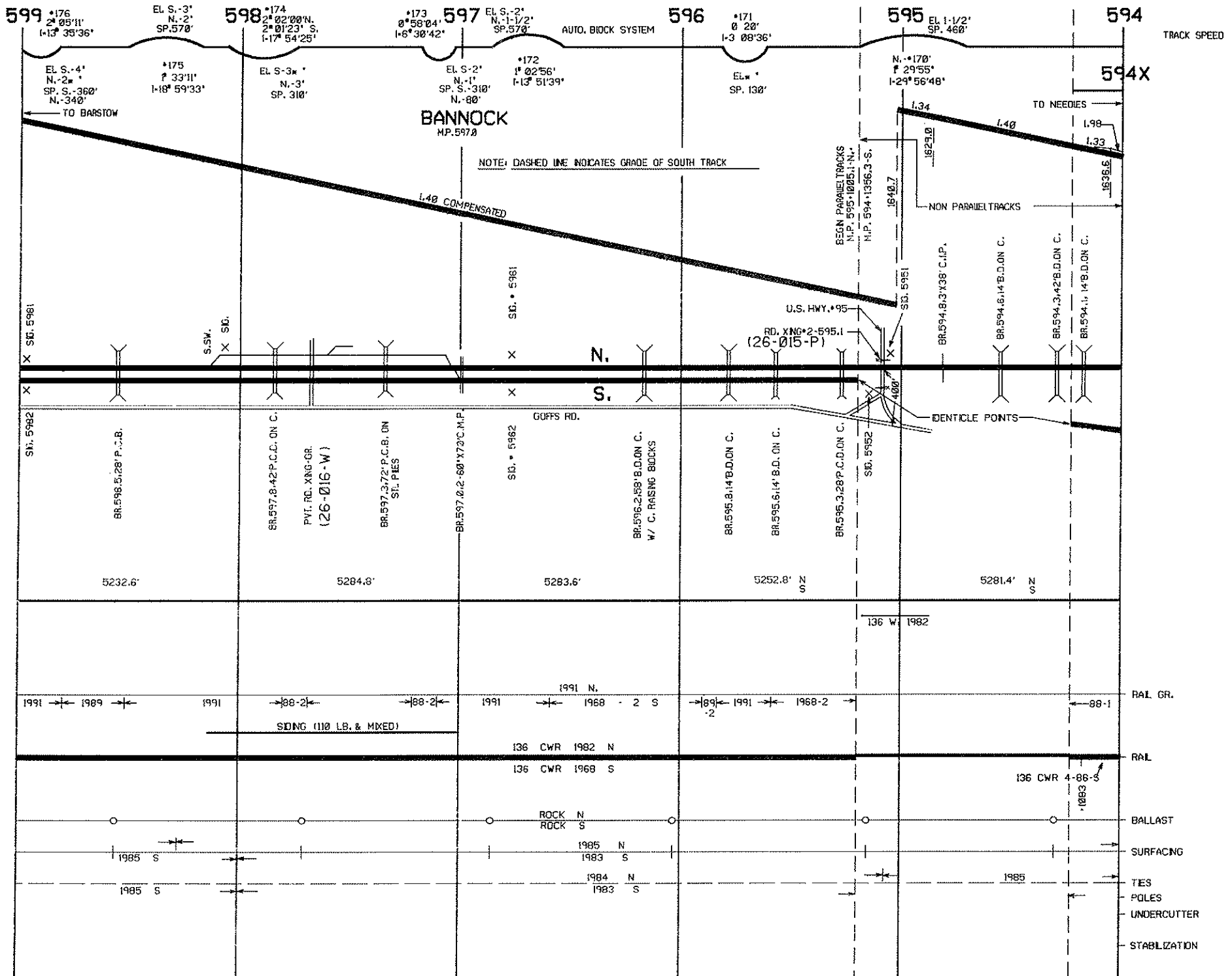
SURFACING

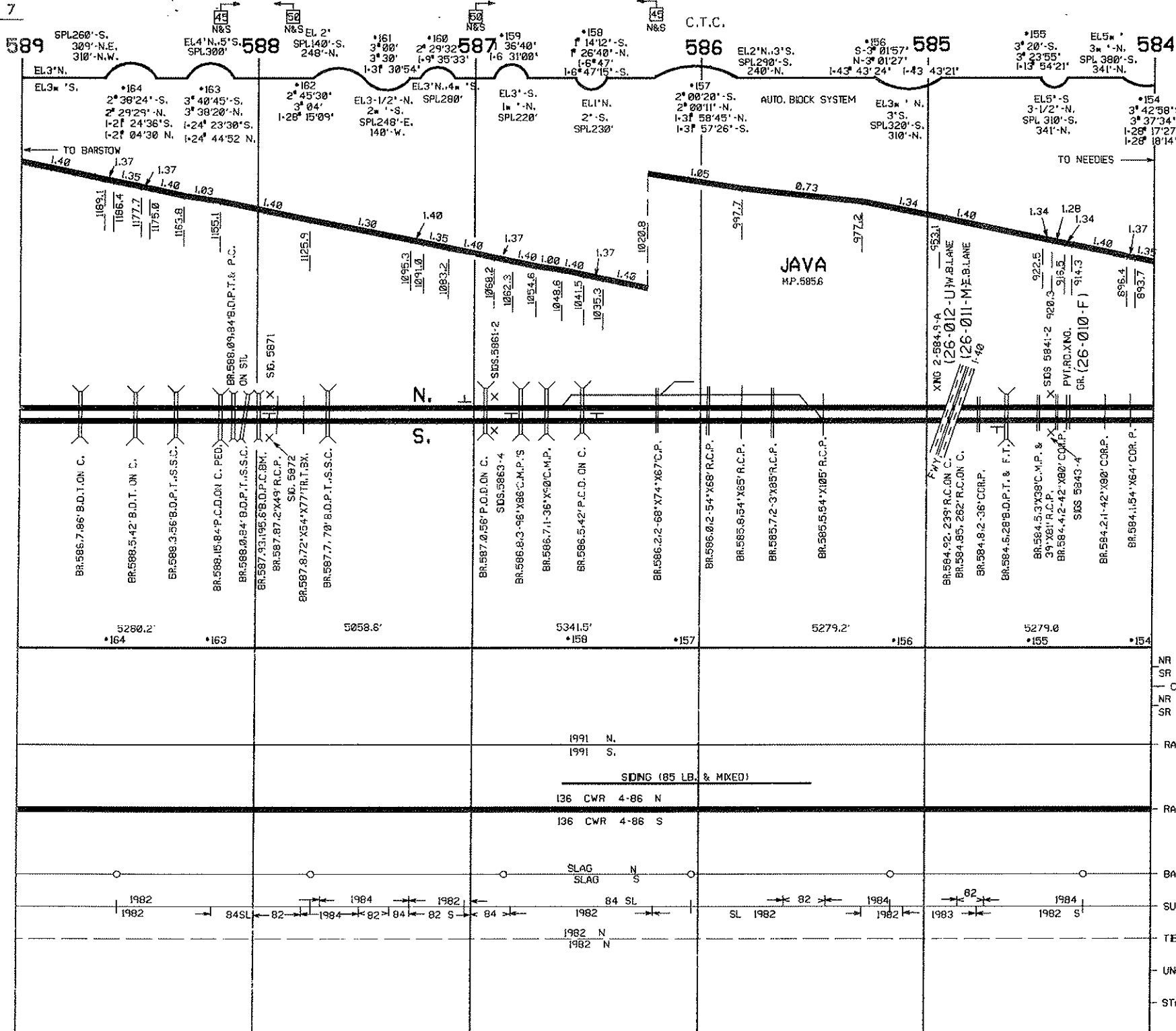
TIES

UNDERCUTTER

STABILIZATION

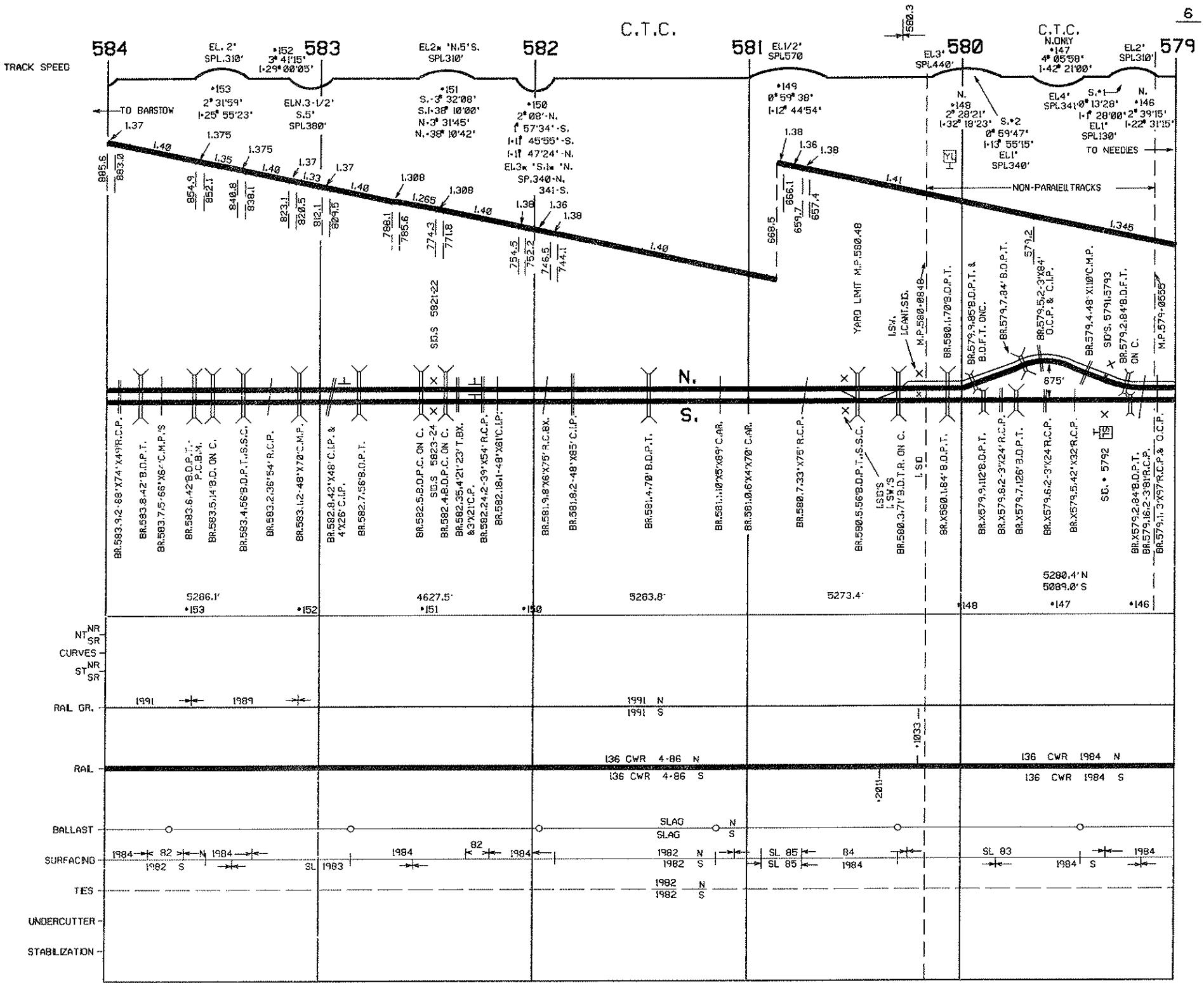


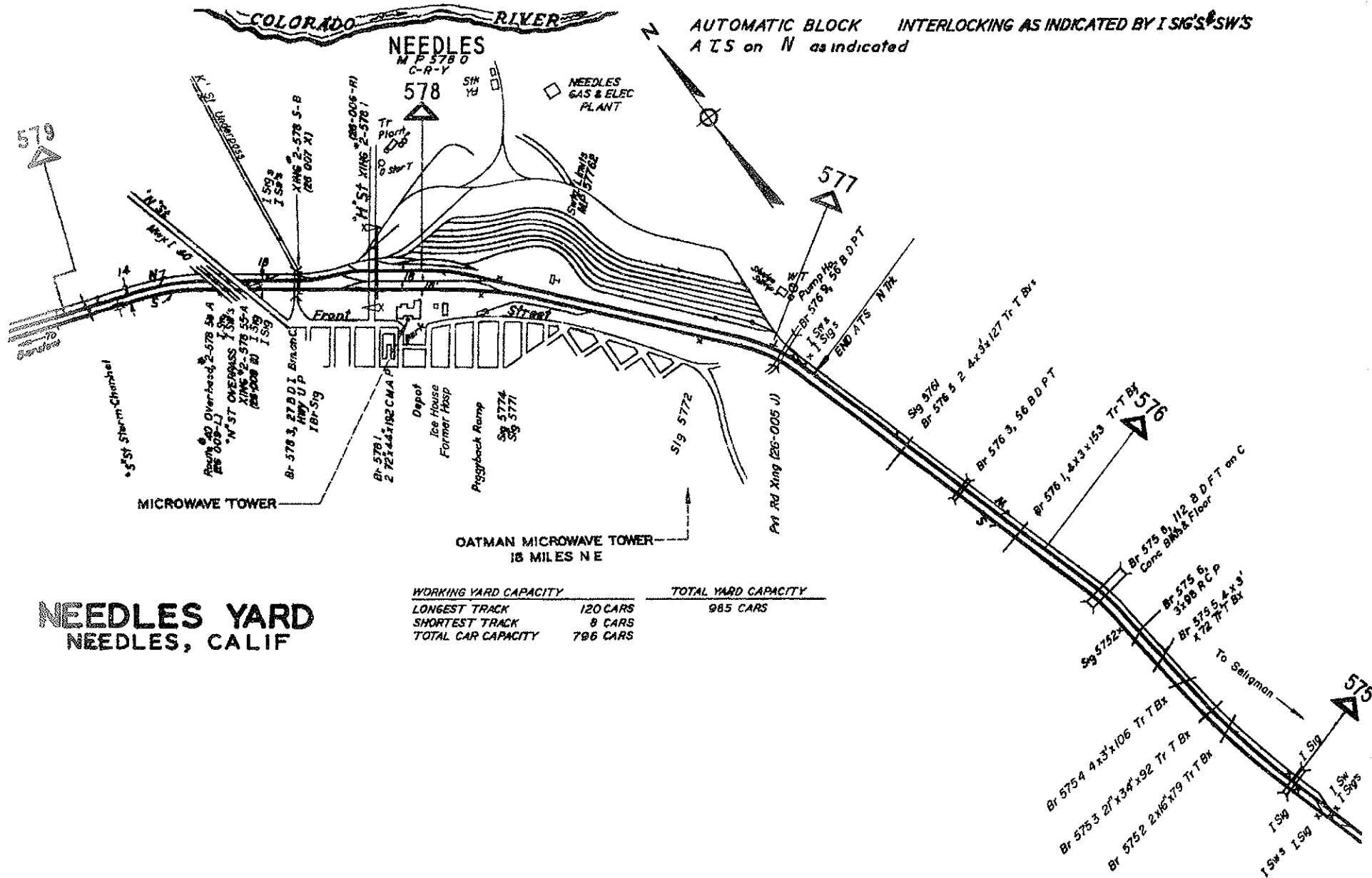




TRACK SPEED

C.T.C.

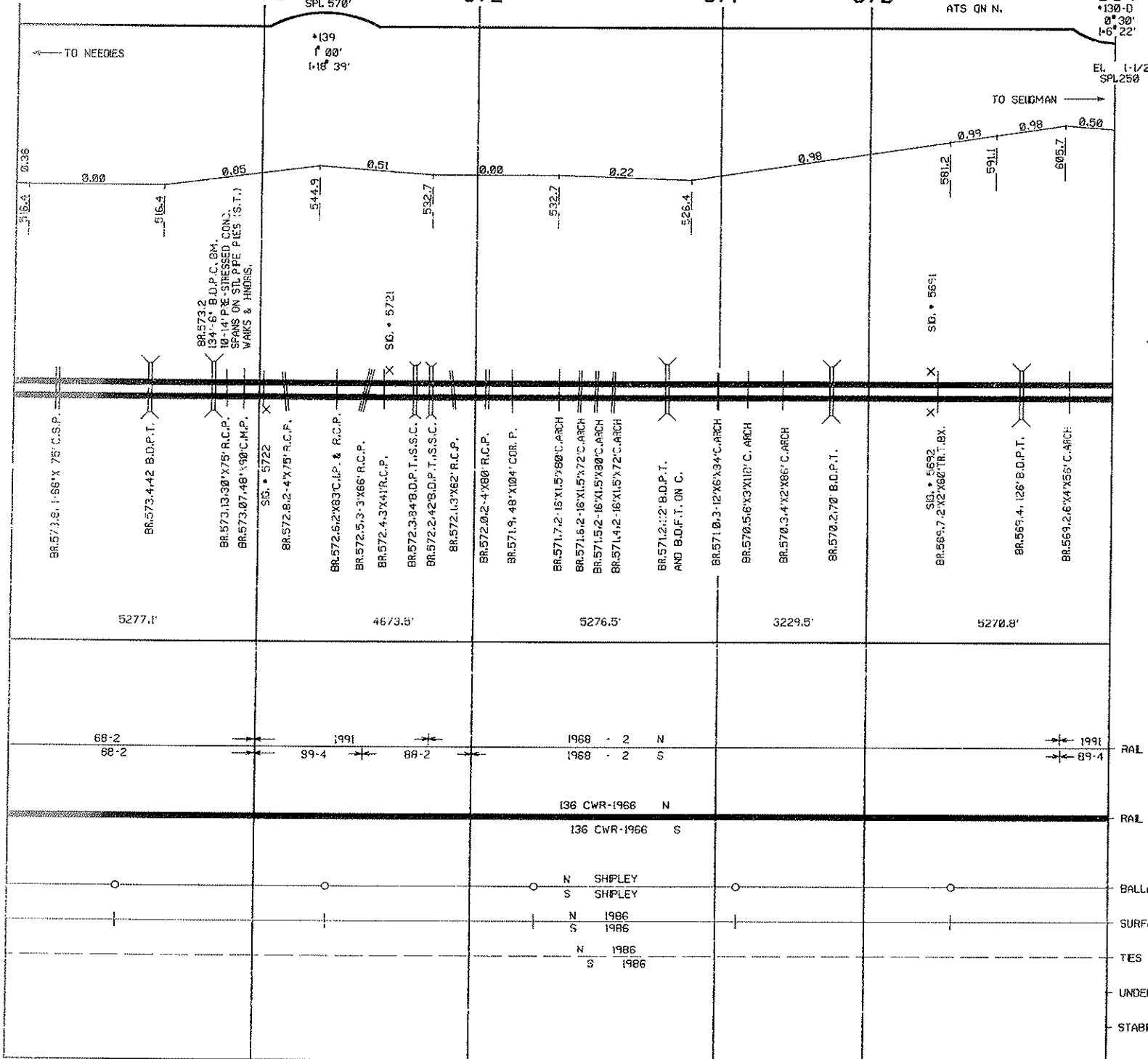


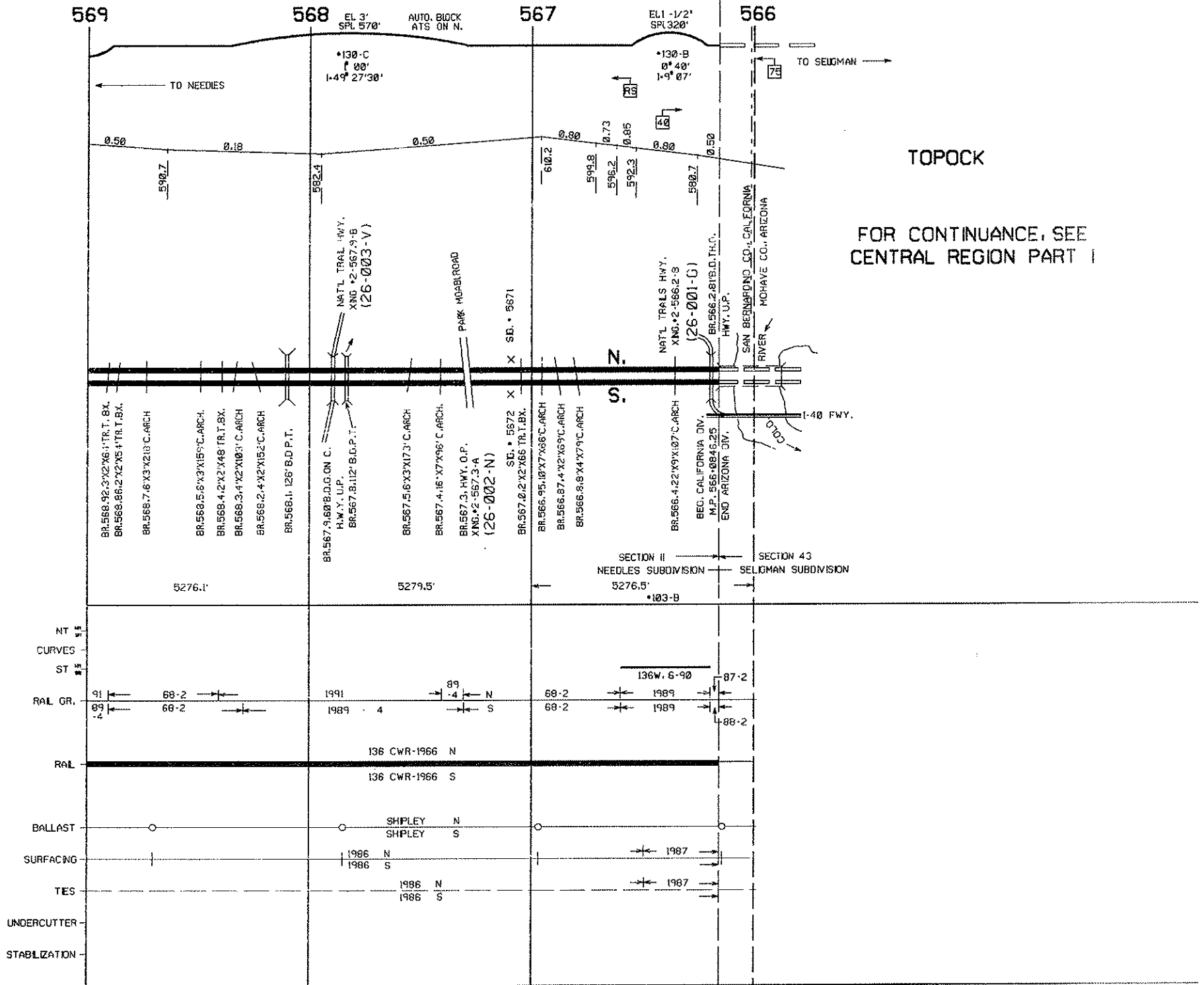


AUTOMATIC BLOCK INTERLOCKING AS INDICATED BY I SIG'S SW'S
AT IS on N as indicated

NEEDLES YARD
NEEDLES, CALIF

WORKING YARD CAPACITY		TOTAL YARD CAPACITY
LONGEST TRACK	120 CARS	985 CARS
SHORTEST TRACK	9 CARS	
TOTAL CAR CAPACITY	786 CARS	





Needles Subdivision

Topock (M.P. 566.1) to Barstow (M.P. 749.8)