



MAINTENANCE PROGRAM
AND
TRACK CHART
METROPOLITAN REGION

1982



LINE NAME		BETWEEN	M.P. TO M.P.	CODE	STATE	PAGE
HUDSON LINE	MTA	N. Y. (GCT) & POUGHKEEPSIE	0.0- 75.8	91-9100	NY	1- 8
NEW HAVEN LINE	MTA	WOODLAWN & STATE LINE	12.0- 26.1	91-9108	NY	17- 18
NEW HAVEN LINE	CTA	STATE LINE & NEW HAVEN	26.1- 73.0	91-9108	CT	18- 23
HARLEM LINE	MTA	MOTT HAVEN & DOVER PLAINS	5.0- 77.0	91-9131	NY	31- 38
DANBURY BR.	CTA	SO. NORWALK & DANBURY	41.3- 64.9	91-9119	CT	25- 27
NEW CANAAN BR.	CTA	STAMFORD & NEW CANAAN	0.0- 7.9	91-9118	CT	24- 24
WATERBURY BR.	CTA	DEVON & WATERBURY	0.0- 26.9	91-9121	CT	28- 30



LINE NAME	BETWEEN	M.P. TO M.P.	CODE	STATE	PAGE
HUDSON LINE	POUGHKEEPSIE & RENSELAER	75.8-140.5	92-9100	NY	9- 16
HARLEM LINE	DOVER PLAINS & WASSAIC	77.0- 81.6	92-9131	NY	39- 40
CLAVERRACK INDUSTRIAL TRACK	HUDSON & CLAVERRACK	0.0- 4.2	92-9166	NY	42- 42
HUDSON RIVER CONN. RR.	STUYVESANT (CP123) & CP SM	-0.5- 8.4	92-9132	NY	41- 41
YONKERS YD.	NEW YORK, N.Y.	16.0- 00.0	92-9180	NY	*
TARRYTOWN YD.	TARRYTOWN, N.Y.	25.0- 00.0	92-9181	NY	*
CROTON WEST YD.	CROTON, N.Y.	34.0- 00.0	92-9182	NY	*
POUGHKEEPSIE YD.	POUGHKEEPSIE, N.Y.	74.0- 00.0	92-9183	NY	*

PROGRAM LEGEND
DATE OF WORK PRECEDES CODE (IF KNOWN)

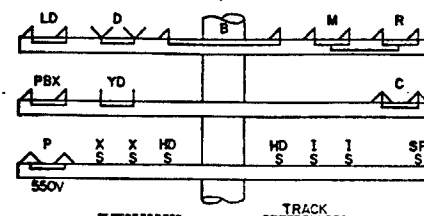
CONDITIONS	CODES
GRINDING (NO. OF PASSES)	
SURFACING	TYPE OF MACHINE USED
	E = Electromatic T = Tamper
	P = Plasser
TIES	YEAR INSTALLED ONLY FOR MAJOR REHABILITATION
	ST = Safety tie installations of less than 400 ties/mile
UNDERCUTTING	TYPE OF MACHINE USED
	PD = Plow (Bulldozer) UK = Undercut (Kershaw)
	PL = Plow (Loram) UP = Undercut (Plasser)
RAIL	TYPE AND CONDITION
	C = Cropped HT = Heat Treated
	F = Fit
	/// = Continuous Welded Rail (Butt welded rails 79 feet or longer where laid in succession)

NOTE: On rail weights of over 100 lbs., the number 1 is dropped.
Example: 140 lbs would be written 40. The rail weight will precede the year rail was laid.

BALLAST	TYPE OF MACHINE USED
CLEANING	L = Loram S = Speno
TONNAGE	(MGT) in Million Gross Tons (Prior Year)
TIMETABLE	
SPEED	Passenger/Fast Freight/Freight
TEMP SLOW	
ORDER SPEED	Passenger/Fast Freight/Freight

CHART LEGEND

INTERLKG TOWER	INT
TUNNEL	
BRIDGE (OH&UG)	
SIG BRIDGE	
RR XING (GRADE)	
PUB RD XING (GRADE)	
PUB RD XING (GRD) (W/FLSH)	
PUB RD XING (GRD) (FLSH & GATES)	
PRIVATE RD XING	
AUTOMATIC SIGNAL	
CURVE LUBRICATOR	
DRAWING EQUIP DET	
HOT BX DET (PT DIR TRAFF)	
STATE LINE	
TIMETABLE MP	
VALUATION MP	



- 1 - NO. 9 COPPER WIRE
- 2 - NO. 8 COPPER WIRE
- 3 - NO. 8 WEATHER PROOF COPPERWELD
- 4 - NO. 8 IRON
- 5 - NO. 6 WEATHER PROOF COPPER
- 6 - NO. 10 WEATHER PROOF COPPERWELD

KEY TO PIN SYMBOLS

- D - DISPATCHER
- R - RADIO
- LD - CARRIER
- P - POWER
- PBX - EXT.
- I - INDICATION
- SP - SPARE
- B - BLOCK
- M - MESSAGE
- C - CODE
- YD - YARD
- X - CROSSING
- HD - DISTANT

KEY TO LINE CIRCUITS

DECIMAL-FRACTION CONVERSION TABLE

0.5 = 1/2 in.	1.5 = 1 1/2 in.	2.5 = 2 1/2 in.	3.5 = 3 1/2 in.
1.0 = 1 in.	2.0 = 2 in.	3.0 = 3 in.	4.0 = 4 in.

GRINDING				
SURFACING	79T			80E
TIES	79			79
UNDERCUTTING				
RAIL			27F79	
BAL CLEAN				61S
TONNAGE (MGT)	1.2		2.0	2.0
T T SPEED		30/30/30		30/30/30

GRINDING				81R
SURFACING				81
TIES				79
UNDERCUTTING				
RAIL		40-75		40-75
BAL CLEAN		80L		81L
TONNAGE (MGT)	28.2		28.5	28.5
T T SPEED	50/50/40	70/60/50	35/35/35	70/60/50

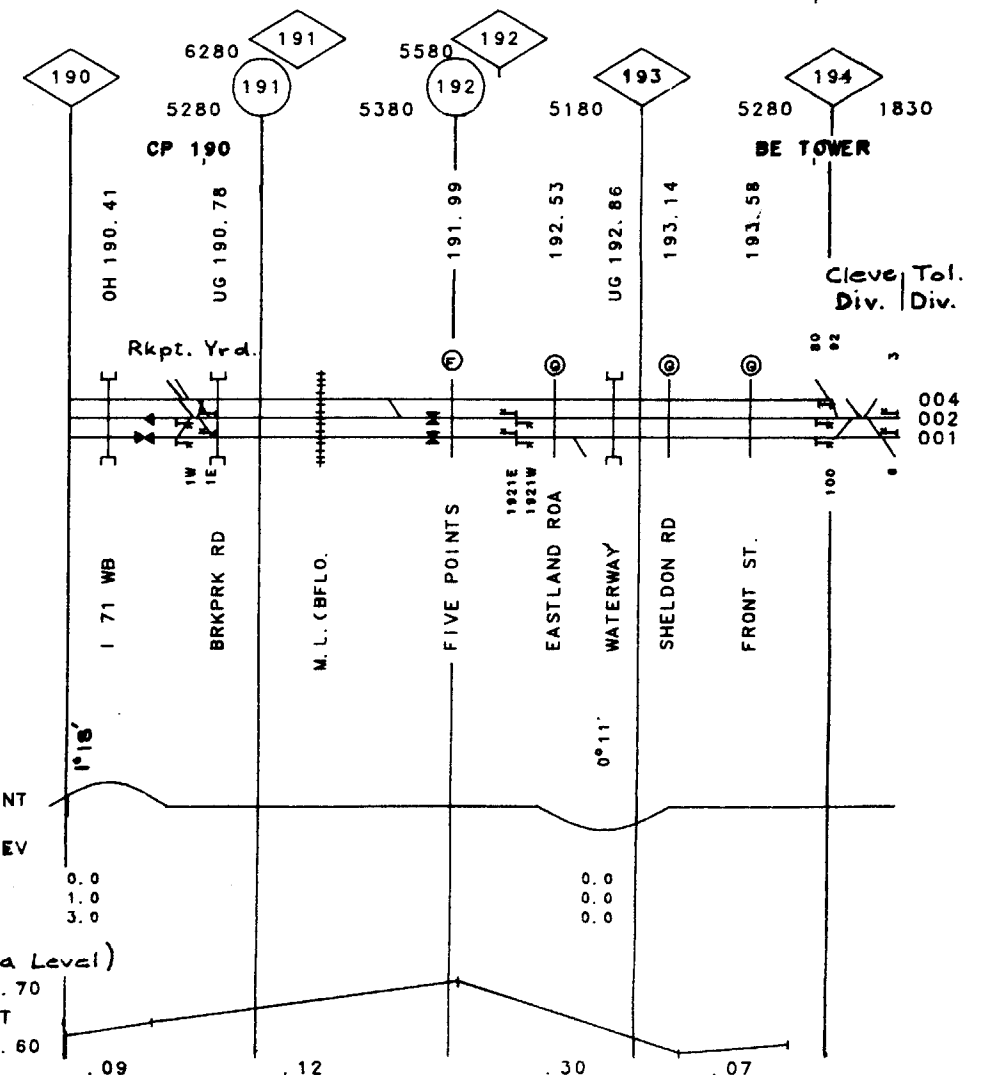
GRINDING				81R
SURFACING	81	79T		81
TIES				79
UNDERCUTTING				
RAIL	40-73	127-64		40-73
BAL CLEAN		80L		81L
TONNAGE (MGT)	37.9		38.6	38.3
T T SPEED	70/60/50	70/60/50	35/35/35	70/60/50

VALUATION
TOWN

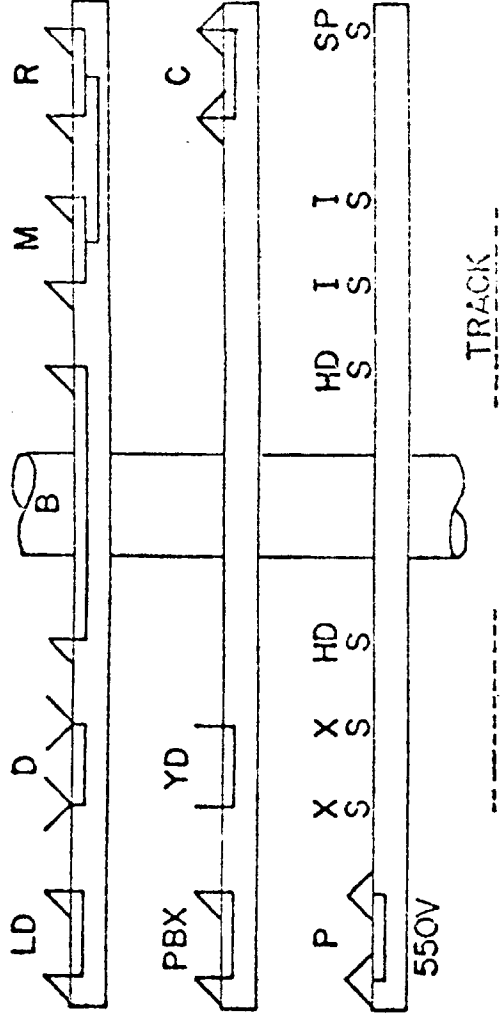
FACILITY

V2040/V2060

BEREA



POLE LINE DIAGRAM



- / = NO. 9 COPPER WIRE
- ✓ = NO. 8 COPPER WIRE
- ↗ = NO. 8 WEATHER PROOF COPPERWELD
- I = NO. 8 IRON
- ^ = NO. 6 WEATHER PROOF COPPER
- S = NO. 10 WEATHER PROOF COPPERWELD

KEY TO PIN SYMBOLS

D = DISPATCHER	B = BLOCK
R = RADIO	M = MESSAGE
LD = CARRIER	C = CODE
P = POWER	YD = YARD
PBX = EXT. -----	X = CROSSING
I = INDICATION	HD = DISTANT
SP = SPARE	

KEY TO LINE CIRCUITS

COST CENTER LISTING FOR METROPOLITAN REGION

<u>LINE NAME</u>	<u>MILE POST FROM</u>	<u>MILE POST TO</u>	<u>TRACK</u>	<u>COST CENTER</u>	<u>LINE CODE</u>
HUDSON LINE	75.80	123.80	001	65060	92-9100
HUDSON LINE	75.80	125.60	002	65061	92-9100
HUDSON LINE	123.80	135.20	001	65062	92-9100
HUDSON LINE	125.60	140.50	002	65064	92-9100
HUDSON LINE	135.20	140.50	001	65063	92-9100

GRINDING					74(2)				65				78(4)	
SURFACING	74E	80P			58				79E	81			76P	81
TIES			86		72	58		58					75	
UNDERCUTTING														
RAIL	19-69 19-70 19-72 19-76													
BAL CLEAN														
TONNAGE(MGT)								10.8						
T T SPEED					35/35/35					60/60/40			50/40/40	

004

GRINDING					74(2)								80(2)	
SURFACING	74E	80P	74E		70			80E		77P	81		77P	81
TIES	67	61			61		72	57				77		
UNDERCUTTING														
RAIL	19-69 27F62 27-57R 27F63													
BAL CLEAN														
TONNAGE(MGT)								13.3						
T T SPEED					35/35/35					60/60/40			50/40/40	

002

GRINDING					74(2)				65				78(4)	
SURFACING			64		57			77P			79E	81	79E	
TIES		65	74		65				65		79			
UNDERCUTTING														
RAIL	27F68 27F63 19-72 19-75 19-70 19F75													
BAL CLEAN														
TONNAGE(MGT)					13.8						13.9			
T T SPEED					35/35/35					60/60/40			50/40/40	

001

GRINDING					74(2)									
SURFACING			74E		74E		74E		57					
TIES	CENTRL													
UNDERCUTTING														
RAIL	STA	19-69 19-72												
BAL CLEAN														
TONNAGE(MGT)									5.7					
T T SPEED	15/15/15								35/35/35					

003

VALUATION
TOWN

GRAND CENTRAL, NE

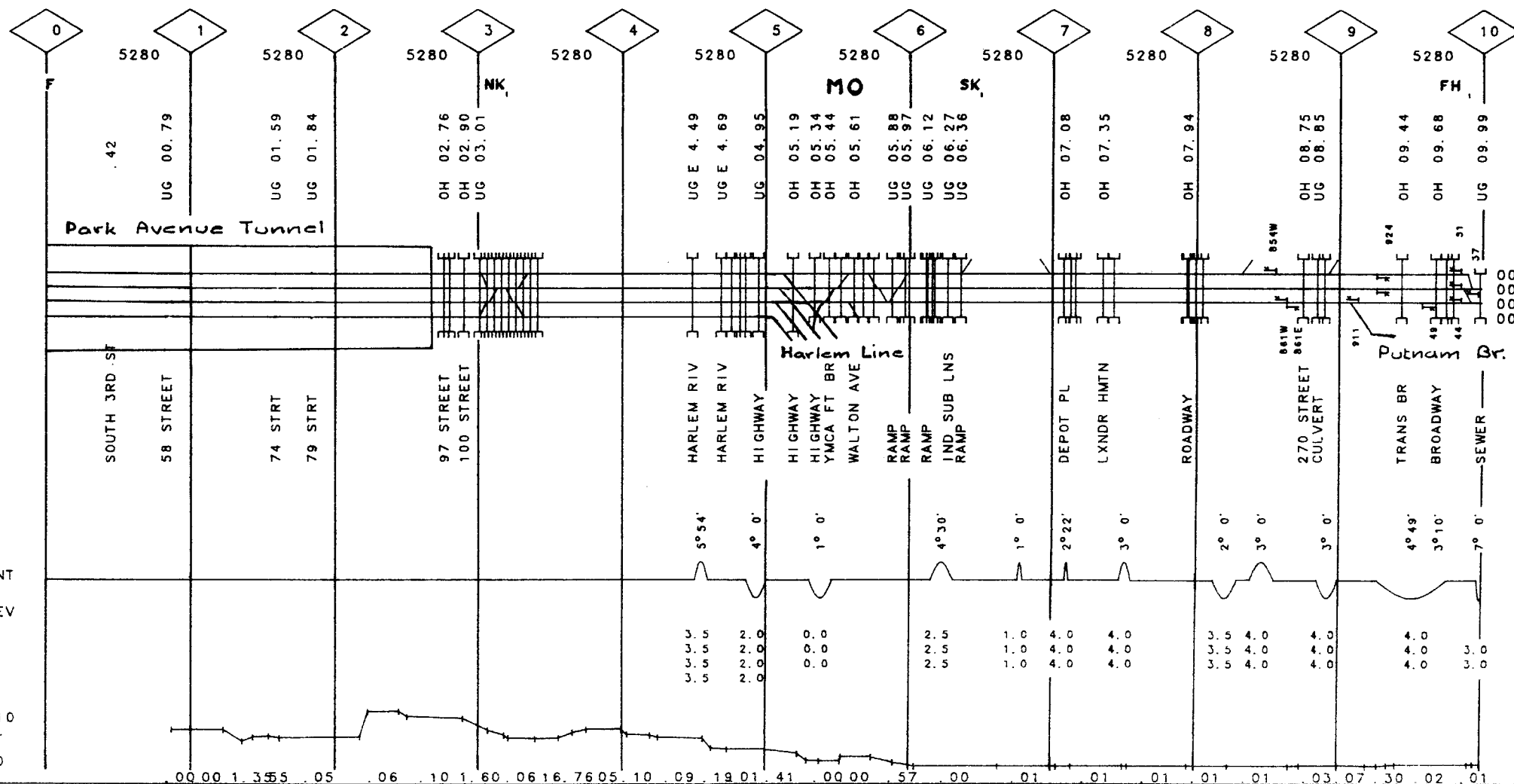
125TH ST.

V0520/V0590

HIGH BRDG.

BN

FACILITY



DEG OF CURVE

HORIZ. ALIGNMENT

AUTH. SUPER ELEV

MAX ELEV 74.10
VERT. ALIGNMENT
MIN ELEV 7.10
GRADE004
002
001
003

91-9100 HUDSON LINE

REV. 01/82 MTA

MP .00 -MP

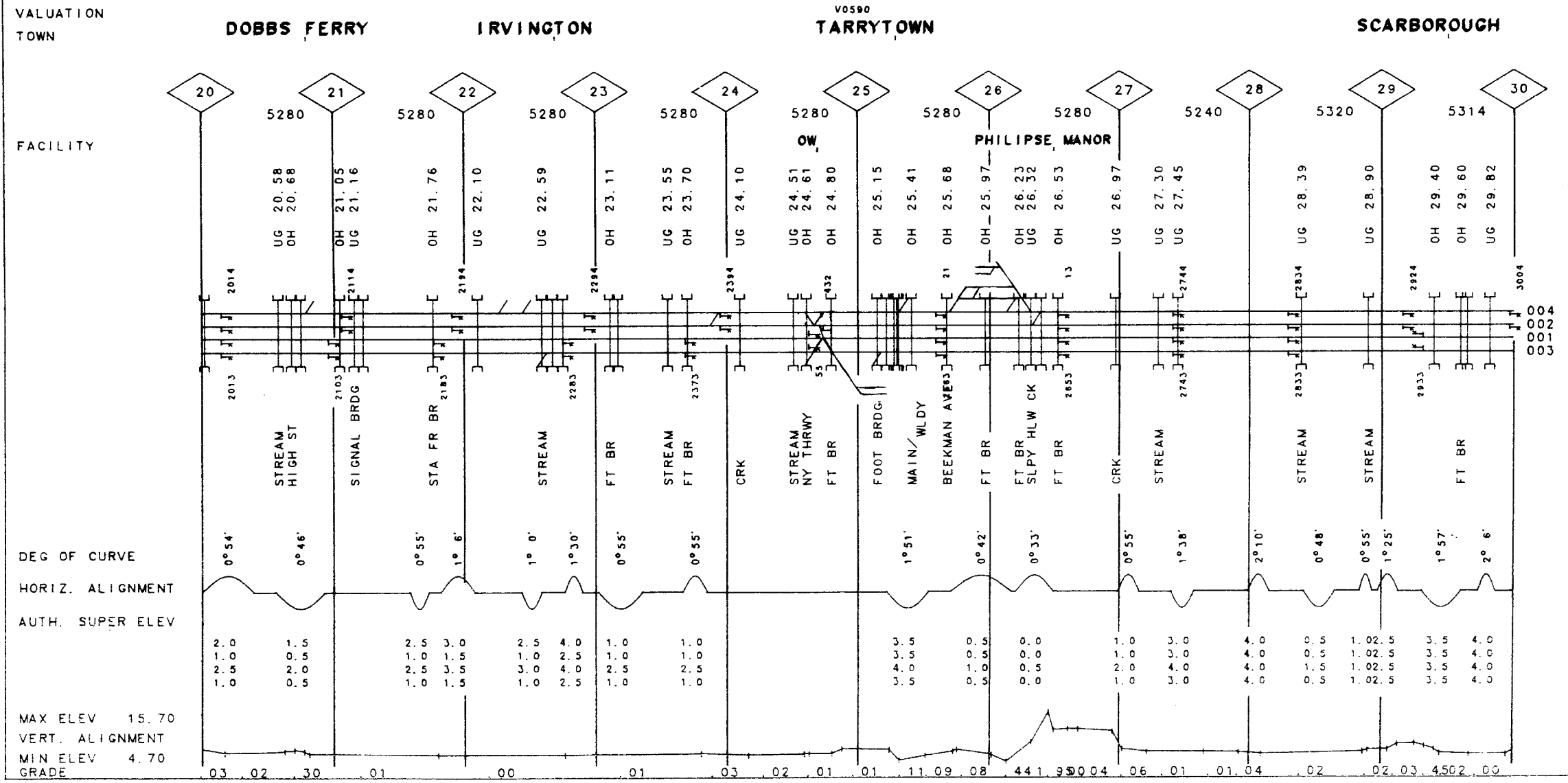
10.00 NY

GRINDING	79(2)				65	
SURFACING	79E		80E			
TIES		76			78	
UNDERCUTTING						
RAIL	19-78		12-39	12-57R	12-37	
BAL CLEAN						
TONNAGE(MGT)	13.8		60/60/40		18.0	
T T SPEED	75/60/40					

GRINDING	64		79(2)		64		80(2)	
SURFACING	79E		80E	81	79E		80E	
TIES		79		81			80	
UNDERCUTTING								
RAIL	27-47		19-78		27-47		27F64	
BAL CLEAN								
TONNAGE(MGT)	9.9				9.1			
T T SPEED	60/60/40				60/60/40			

GRINDING			80(2)		64		64	
SURFACING	80E	79E			80E	81		
TIES	80				79			
UNDERCUTTING								
RAIL	19-74	19-77	19-80	12-44	19-80	19-80	19N81	
BAL CLEAN								
TONNAGE(MGT)	8.3				8.5			
T T SPEED	79/60/40				70/60/40		60/60/40	

GRINDING			65					
SURFACING	81		81		78P		67	
TIES	78				78			
UNDERCUTTING								
RAIL	19N81							
BAL CLEAN								
TONNAGE(MGT)	13.2				16.0			
T T SPEED			60/60/40					



VALUATION
TOWN

FACILITY

DEG OF CURVE

HORIZ. ALIGNMENT

AUTH. SUPER ELEV

MAX ELEV 16.30
VERT. ALIGNMENT
MIN ELEV 3.20
GRADE

COLD SPRINGS

V0600

BEACON

GRINDING	67	65
SURFACING	81	79E
TIES	77	79
UNDERCUTTING		
RAIL	32N8V	27F6V
BAL CLEAN	69S	
TONNAGE (MGT)	11.1	10.9
T T SPEED	60/40/40	70/60/40

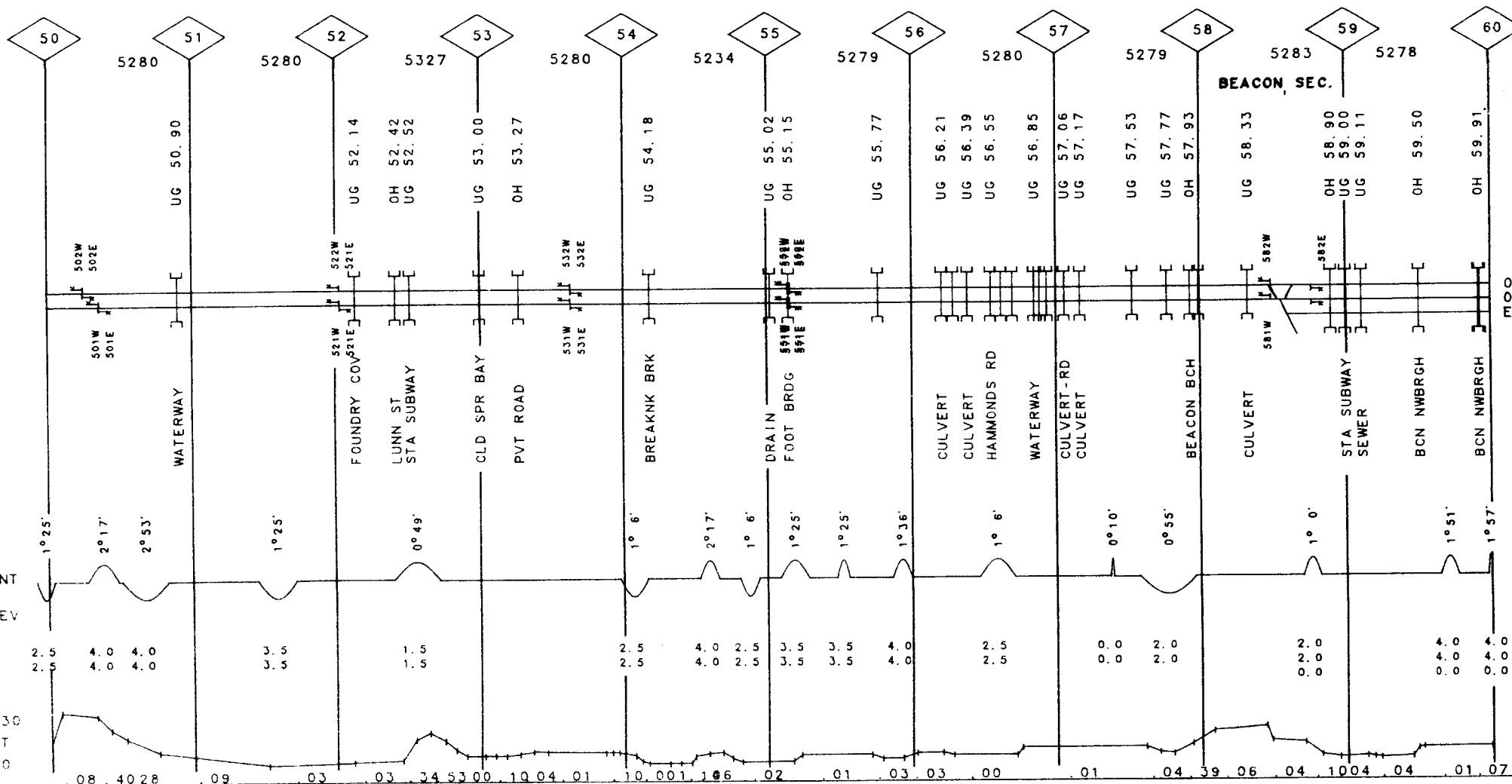
GRINDING	67	81	79E
SURFACING	81	79E	
TIES		76	
UNDERCUTTING			
RAIL	32N8V		
BAL CLEAN		65	
TONNAGE (MGT)	8.9		9.9
T T SPEED	60/40/40	70/60/40	70/60/40

002

001

GRINDING	
SURFACING	61
TIES	
UNDERCUTTING	
RAIL	27-47
BAL CLEAN	
TONNAGE (MGT)	
T T SPEED	

ECS



002
001
ECS

GRINDING						65				
SURFACING		80E				81				
TIES		80	81			81			80	
UNDERCUTTING										
RAIL		27F61								
BAL CLEAN						78S		65		56S
TONNAGE (MGT)						10.9				
T T SPEED		70/60/40			60/60/40			70/60/40		

002

GRINDING						67				
SURFACING		79E						81		
TIES		77						81		78
UNDERCUTTING										
RAIL		32N81								
BAL CLEAN						65		78S		27-49
TONNAGE (MGT)						9.9				
T T SPEED		70/60/40			60/60/40			70/60/40		

001

GRINDING										
SURFACING						79E		66		
TIES						75ST		79ST		56
UNDERCUTTING										
RAIL						27-30		27-34		
BAL CLEAN										
TONNAGE (MGT)										
T T SPEED										

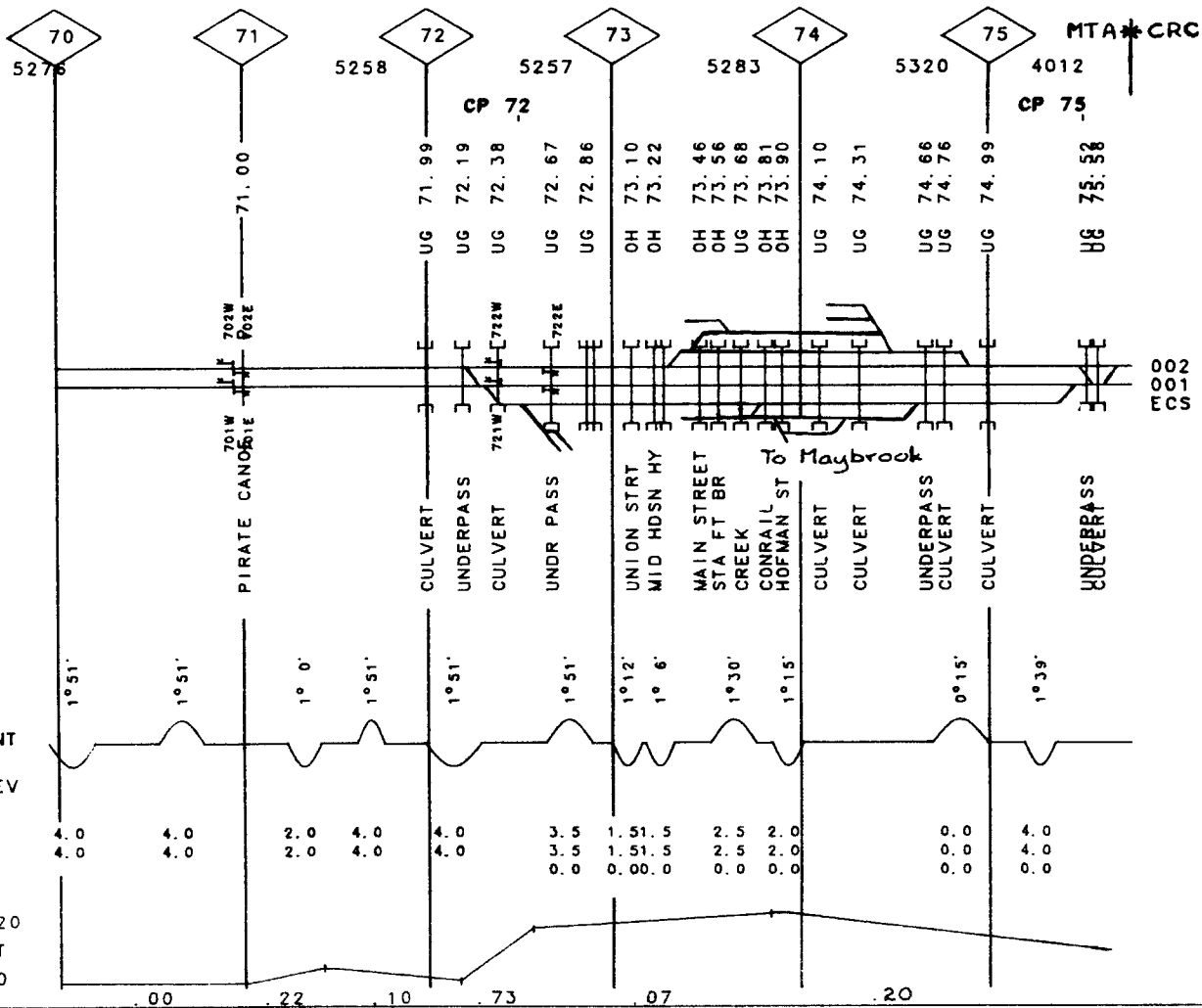
ECS

VALUATION
TOWN

VO800

POUGHKEEPSIE

FACILITY



002
001
ECS

GRINDING	80(2)	
SURFACING		81
TIES	78	
UNDERCUTTING		
RAIL	32-79	
BAL CLEAN	81	805
TONNAGE(MGT)		
T T SPEED	79/60/40	85/60/50

002

GRINDING	80(2)	
SURFACING		81
TIES	78	77
UNDERCUTTING		78
RAIL	32-79	
BAL CLEAN	81	785
TONNAGE(MGT)		
T T SPEED	79/60/40	85/60/40

001

VALUATION
TOWN

V0600

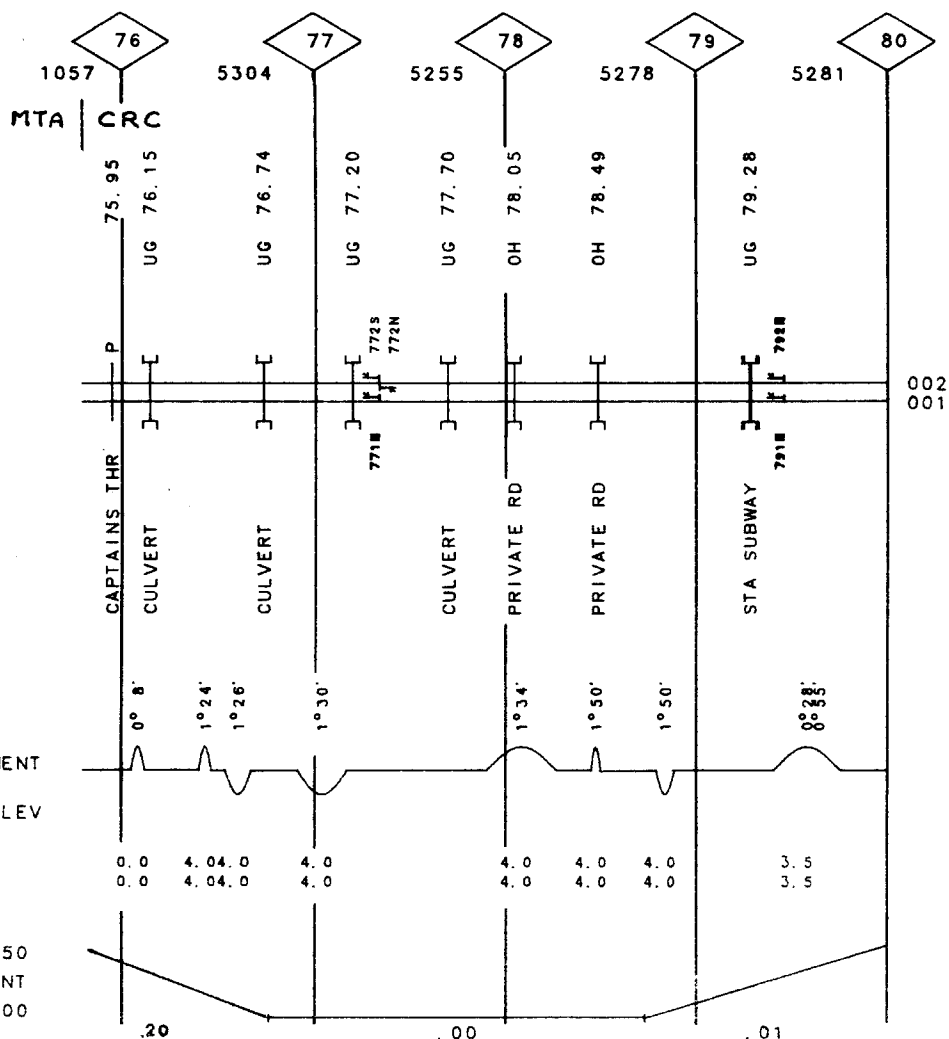
HYDE PARK

FACILITY

MTA | CRC

DEG OF CURVE
HORIZ. ALIGNMENT
AUTH. SUPER ELEV

MAX ELEV 5.50
VERT. ALIGNMENT
MIN ELEV 5.00
GRADE

002
001

GRINDING	80(2)		79(2)	
SURFACING	81		80E	
TIES	78		77	
UNDERCUTTING				
RAIL	32-79		40-77	
BAL CLEAN	785		785	
TONNAGE(MGT)	80/60/50		90/60/50	
T T SPEED	80/60/50		90/60/50	

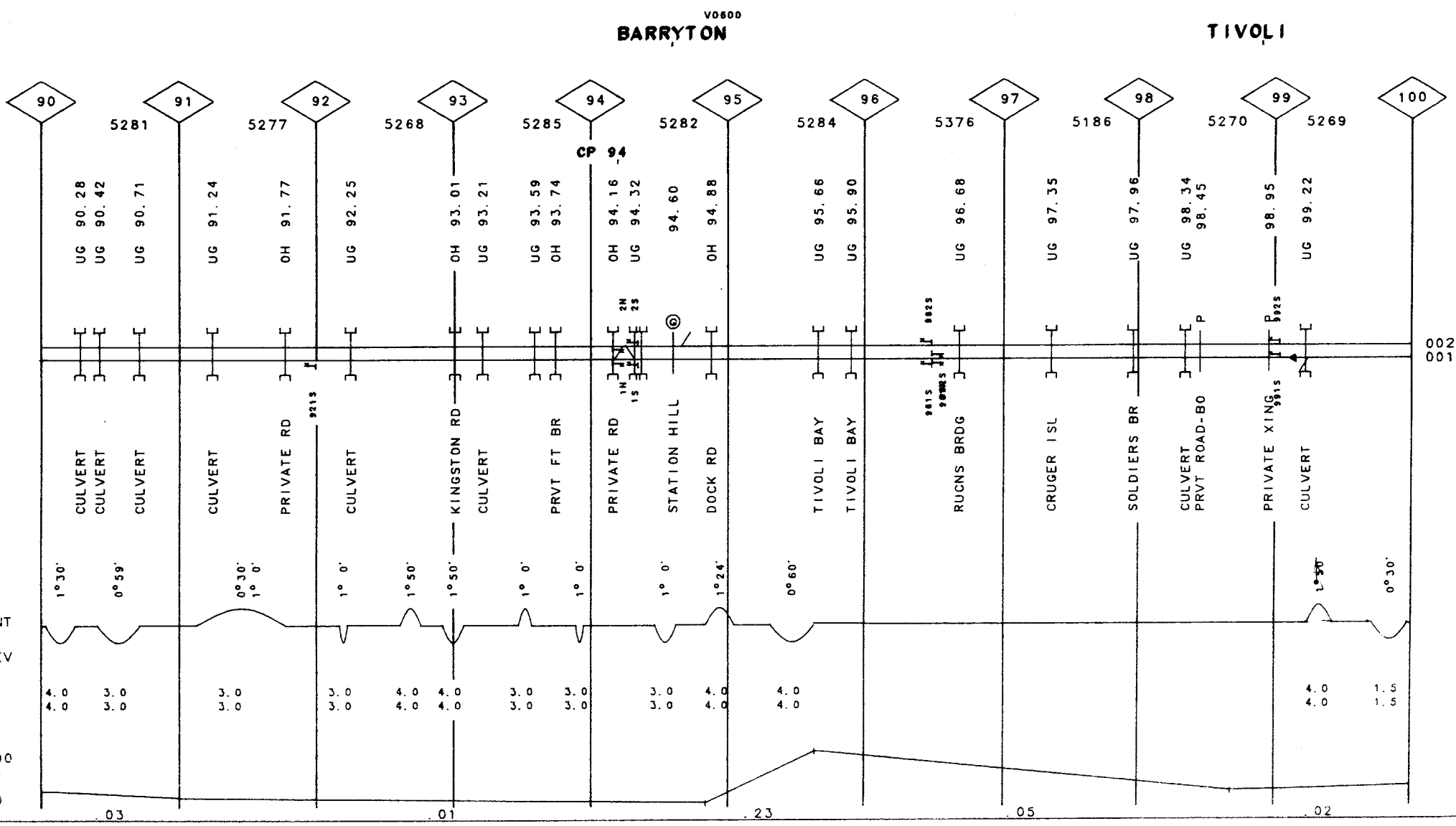
GRINDING	79(2)		80E	
SURFACING	81		80E	
TIES	77		78	
UNDERCUTTING				
RAIL	32-78		61	
BAL CLEAN	56S		785	
TONNAGE(MGT)	80/60/50		90/60/50	
T T SPEED	80/60/50		80/60/50	

VALUATION
TOWN

FACILITY

DEG OF CURVE
HORIZ. ALIGNMENT
AUTH. SUPER ELEV

MAX ELEV 13.90
VERT. ALIGNMENT
MIN ELEV 4.20
GRADE



002

001

002
001

GRINDING	80(2)	79(2)
SURFACING	81	81
TIES	78	81
UNDERCUTTING	76	81
RAIL	32-78	40-77
BAL CLEAN	805	81
TONNAGE(MGT)	80/60/50	90/60/50
T T SPEED	50/30/30	

GRINDING	80(2)	77
SURFACING	81	81
TIES	78	77
UNDERCUTTING	78	77
RAIL	32-78	32-79
BAL CLEAN	81	805
TONNAGE(MGT)	90/60/50	90/60/50
T T SPEED	50/30/30	

VALUATION
TOWN

HUDSON CROSSOVER

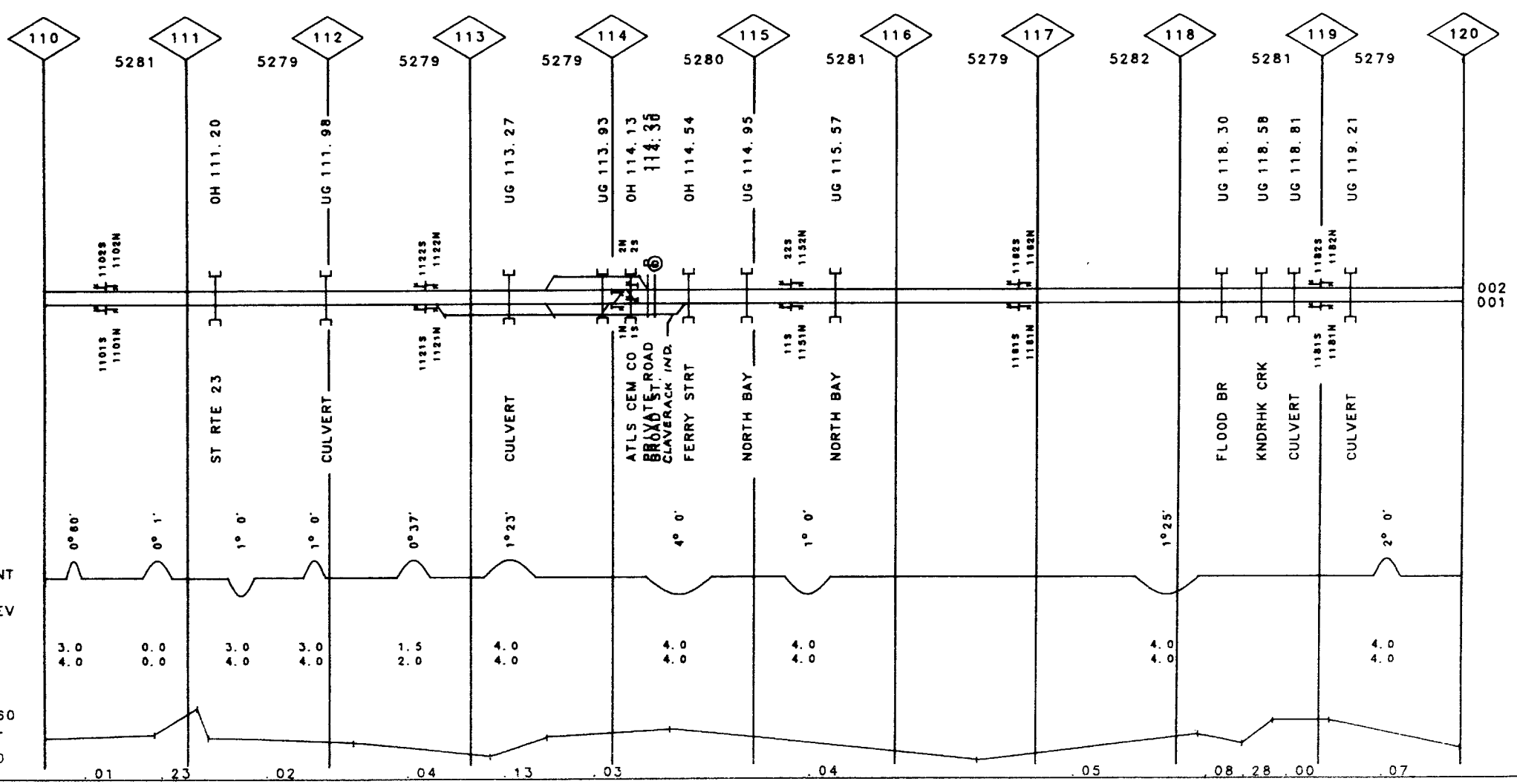
V0600

STOCKPORT

FACILITY

DEG OF CURVE
HORIZ. ALIGNMENT
AUTH. SUPER ELEV

MAX ELEV 12.60
VERT. ALIGNMENT
MIN ELEV 5.30
GRADE



VALUATION
TOWN

NEWTON HOOK

V0600

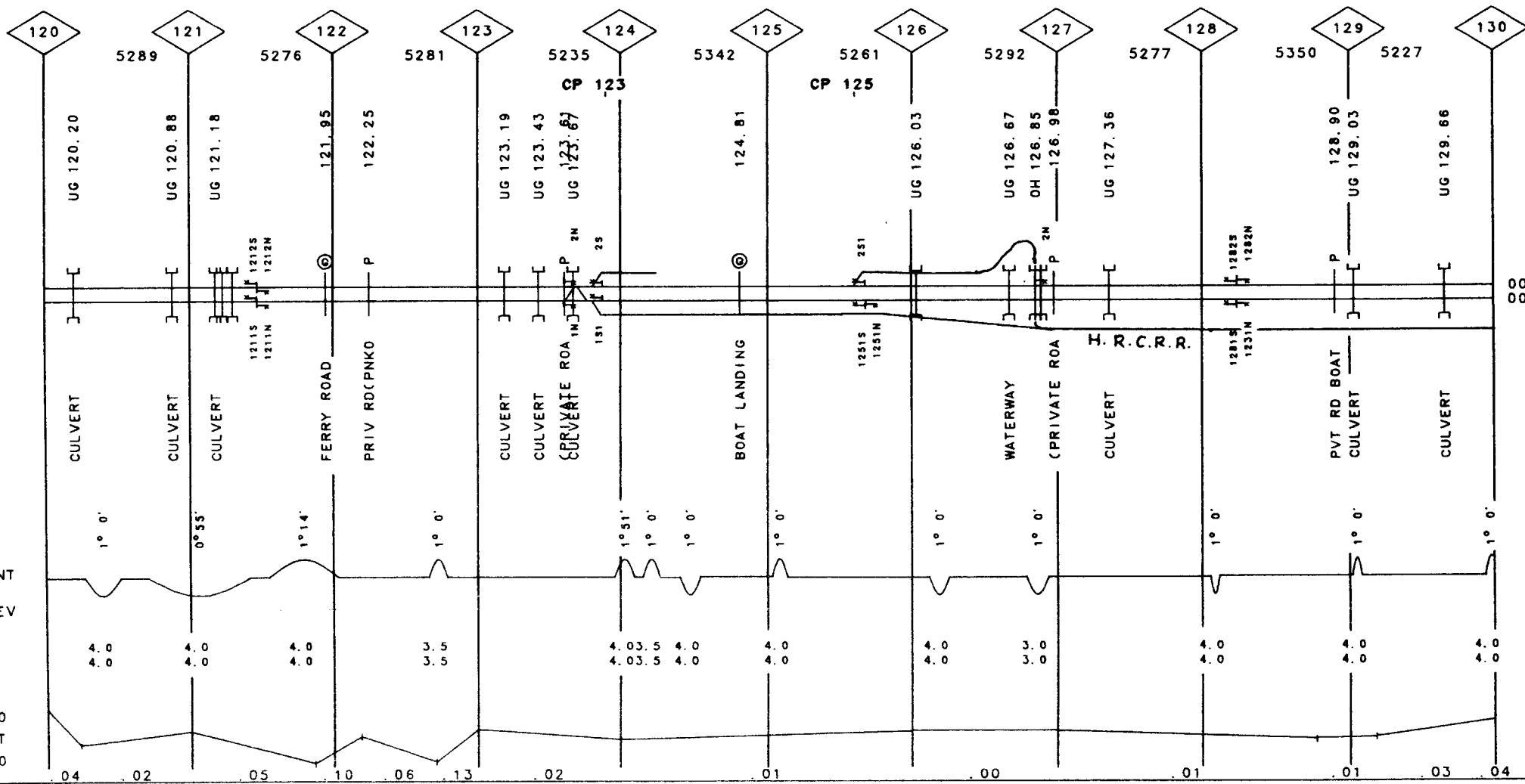
FACILITY

DEG OF CURVE
HORIZ. ALIGNMENT
AUTH. SUPER ELEV

MAX ELEV 9.10
VERT. ALIGNMENT
MIN ELEV 5.90
GRADE

GRINDING	79(2)					80(2)				
SURFACING	81					80E				
TIES	81					79				
UNDERCUTTING	40-77					32-79				
RAIL	81					78S				
BAL CLEAN	81					78S				
TONNAGE(MGT)	90/60/50					85/60/50				
T T SPEED	90/60/50					110/60/50				

GRINDING	80(2)					80(2)				
SURFACING	81					81				
TIES	77					79				
UNDERCUTTING	32-79					56S				
RAIL	81					76S				
BAL CLEAN	81					76S				
TONNAGE(MGT)	90/60/50					85/60/50				
T T SPEED	90/60/50					110/60/50				



GRINDING	80(2)	
SURFACING	80E	
TIES	81	
UNDERCUTTING		
RAIL	32-79	002
BAL CLEAN	80S	
TONNAGE(MGT)		
T T SPEED	110/60	50

GRINDING	80(2)	
SURFACING	80E	
TIES	78	
UNDERCUTTING		
RAIL	32-78	001
BAL CLEAN		
TONNAGE(MGT)		
T T SPEED	110/60	50

VALUATION
TOWN

VO600
ALBANY

140
2640

FACILITY

METROPOLITAN REG | MOHAWK DIV
NORTHEASTERN REG

002
001

DEG OF CURVE
HORIZ. ALIGNMENT
AUTH. SUPER ELEV

MAX ELEV
VERT. ALIGNMENT
MIN ELEV
GRADE

GRINDING				74 (2)					
WELDING									
SURFACING				80P			73E		75E
TIES	55		72	73		72	55	73	72
UNDERCUTTING									
RAIL				19-73				31-45	31-46
BAL. CLEAN				70				71-2	
TONNAGE (HGT)	7.7			0.2				0.4	

003

GRINDING				74 (2)					
WELDING									
SURFACING				80P			73E	76E	80P
TIES	55	72		73				75	
UNDERCUTTING									
RAIL	31-39			19-74			31-50		31-39
BAL. CLEAN				70				71-2	
TONNAGE (HGT)				0.5			8.3		8.1

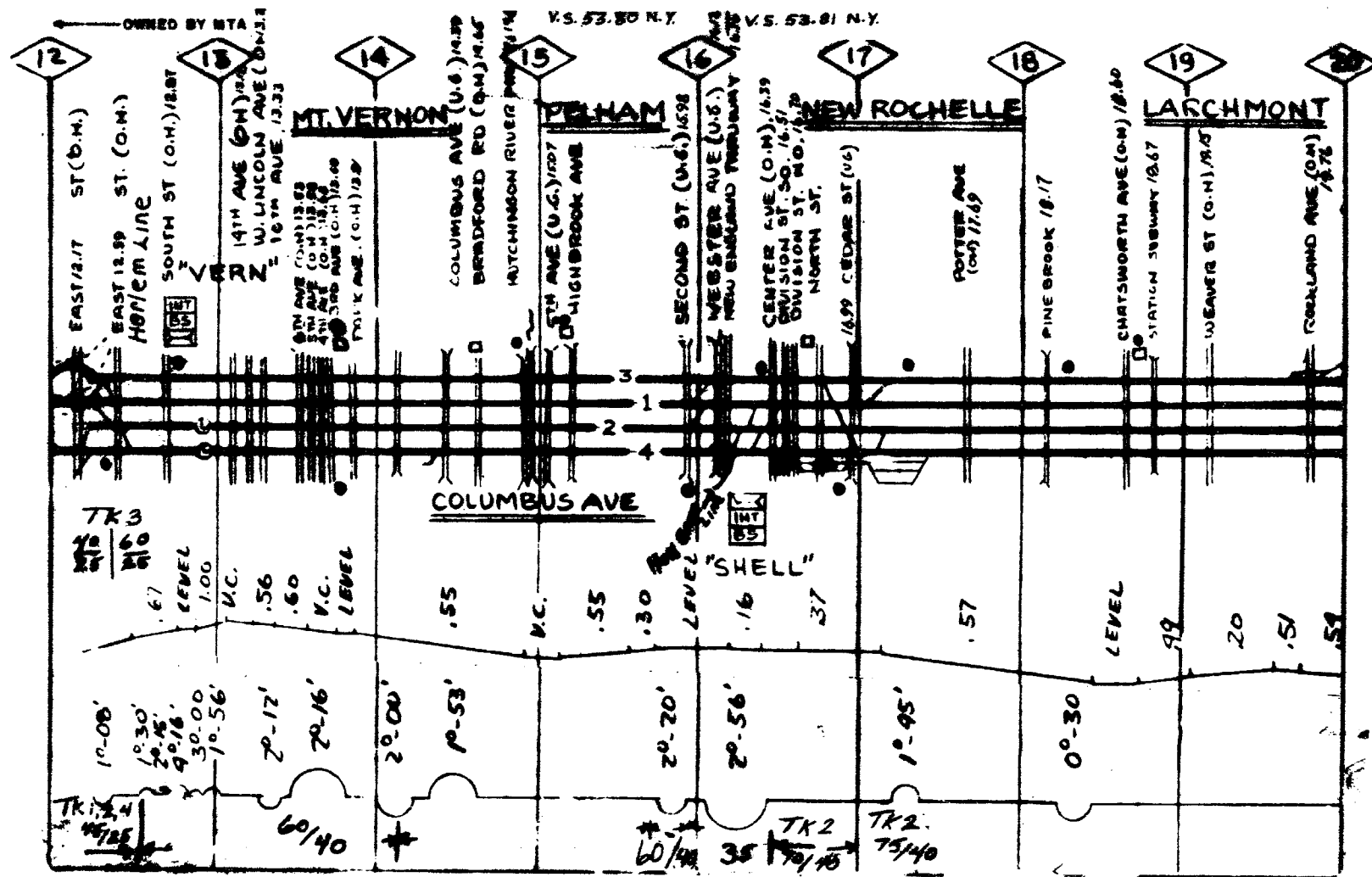
001

GRINDING				74 (2)					69
WELDING									
SURFACING	77E			80P			74E	80P	79P
TIES				73			163		76
UNDERCUTTING									
RAIL				19-74					40-64
BAL. CLEAN				70					71-2
TONNAGE (HGT)				2.6					5.6

002

GRINDING				74 (2)					
WELDING									
SURFACING	75E			80P			74E		79P
TIES							72		
UNDERCUTTING									
RAIL				19-74			31-45	19-75	31-45
BAL. CLEAN				70					71-2
TONNAGE (HGT)							0.6		

004



GRINDING			
WELDING			
SURFACING	80P		75E
TIES	78		53
UNDERCUTTING			
RAIL	31-44	31-40	31-45
RAIL CLEAN			
TONNAGE (AGT)	0.2		

003

GRINDING	69		
WELDING			
SURFACING	80P	5850	80P 75E
TIES	80		66
UNDERCUTTING			
RAIL	40-67		
RAIL CLEAN		31-46	31-45
TONNAGE (AGT)	9.1		9.6

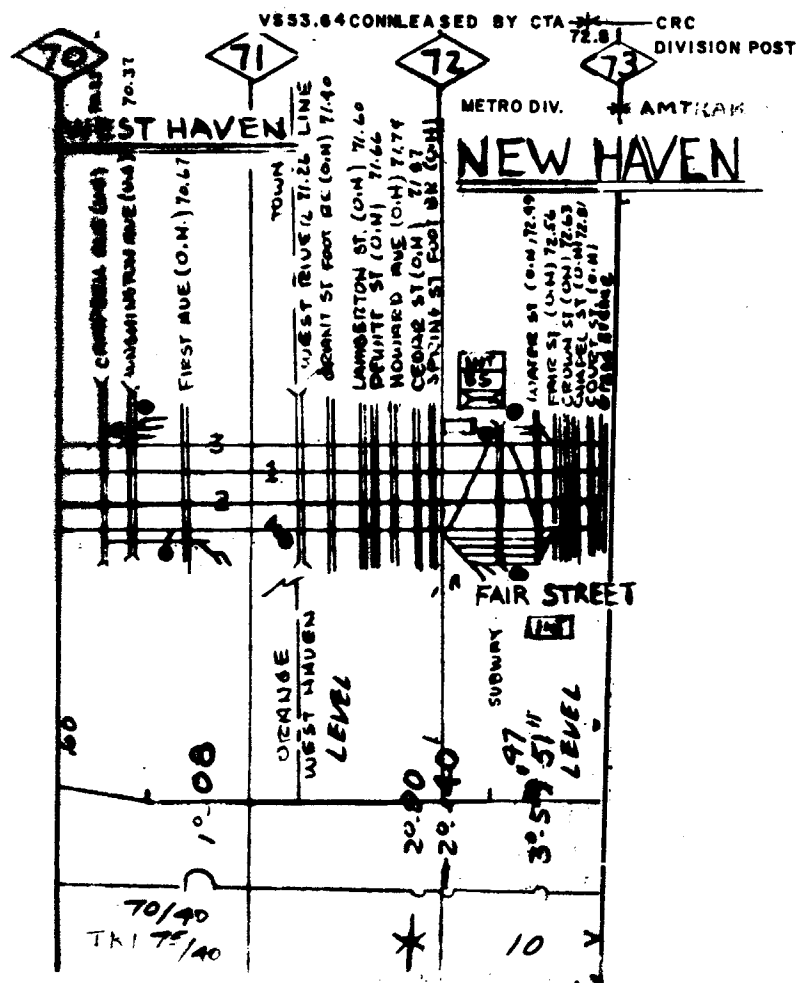
001

GRINDING	69		
WELDING			
SURFACING	80P		80P 5950
TIES	80		59
UNDERCUTTING			
RAIL	40-67		
RAIL CLEAN			
TONNAGE (AGT)	6.5		

002

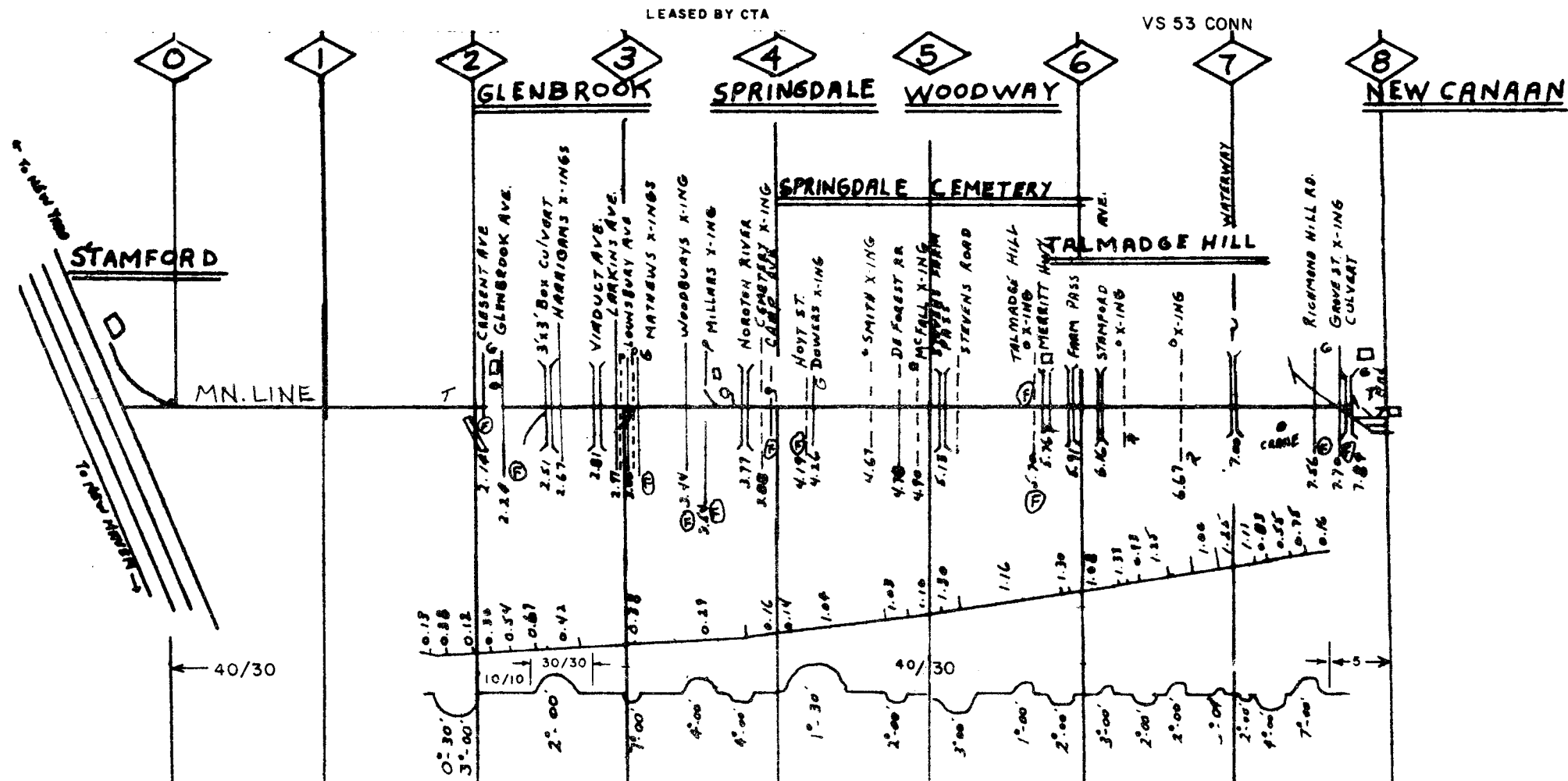
GRINDING			
WELDING			
SURFACING	80P		75E
TIES	80		63
UNDERCUTTING			
RAIL	31-40	31-46	31-45
RAIL CLEAN			
TONNAGE (AGT)	1.7		0.5

004



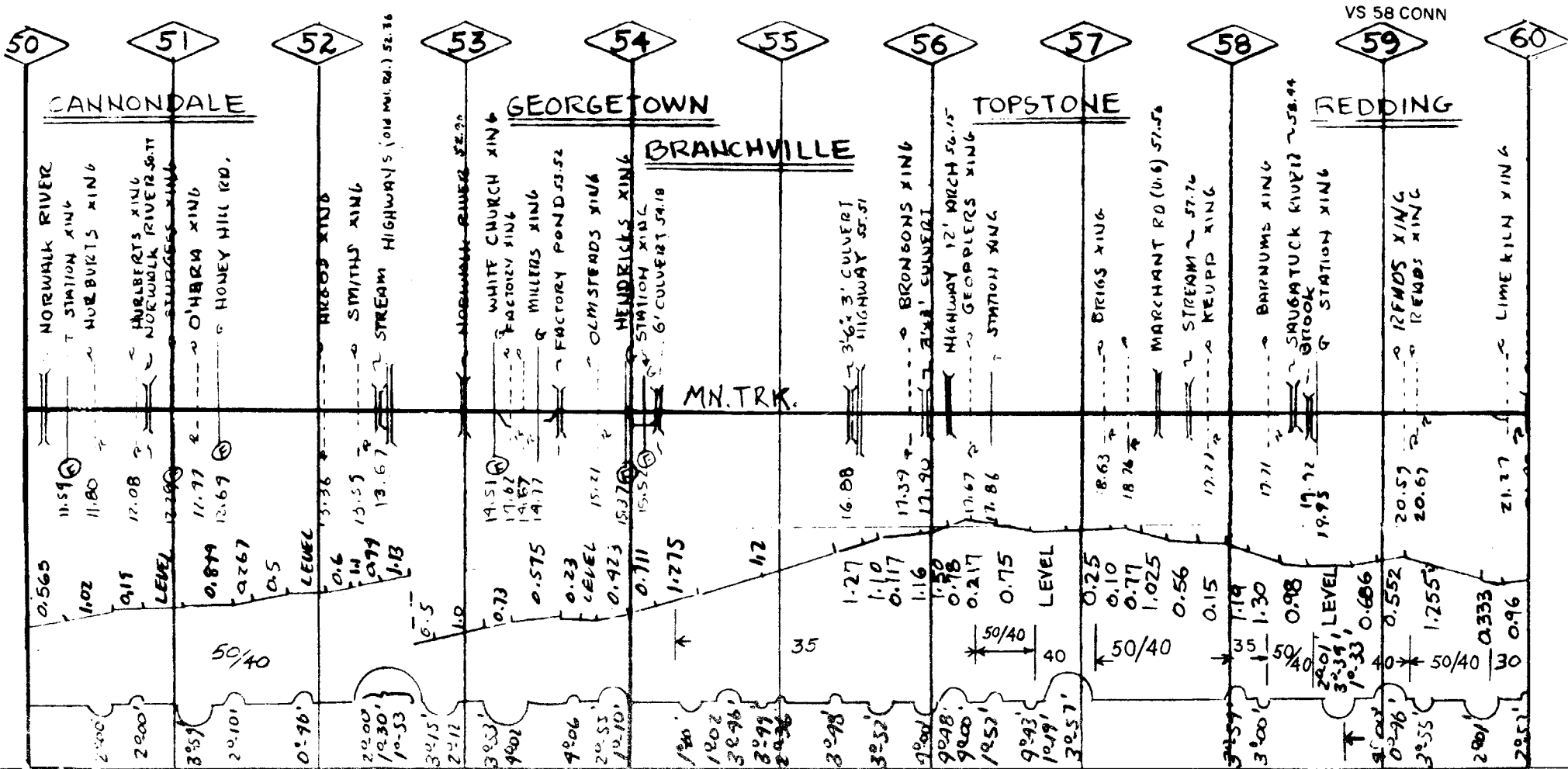
GRINDING	
WELDING	76TW
SURFACING	79P
TIES	74
UNDERCUTTING	
RAIL	19-72/V
BAL CLEAN	12F75/
TONNAGE (HGT)	0.7

007



GRINDING	
WELDING	76TH
SURFACING	79P
TIES	74
UNDERCUTTING	
RAIL	31F75/
BAL. CLEAN	
TONNAGE (MGY)	0.4

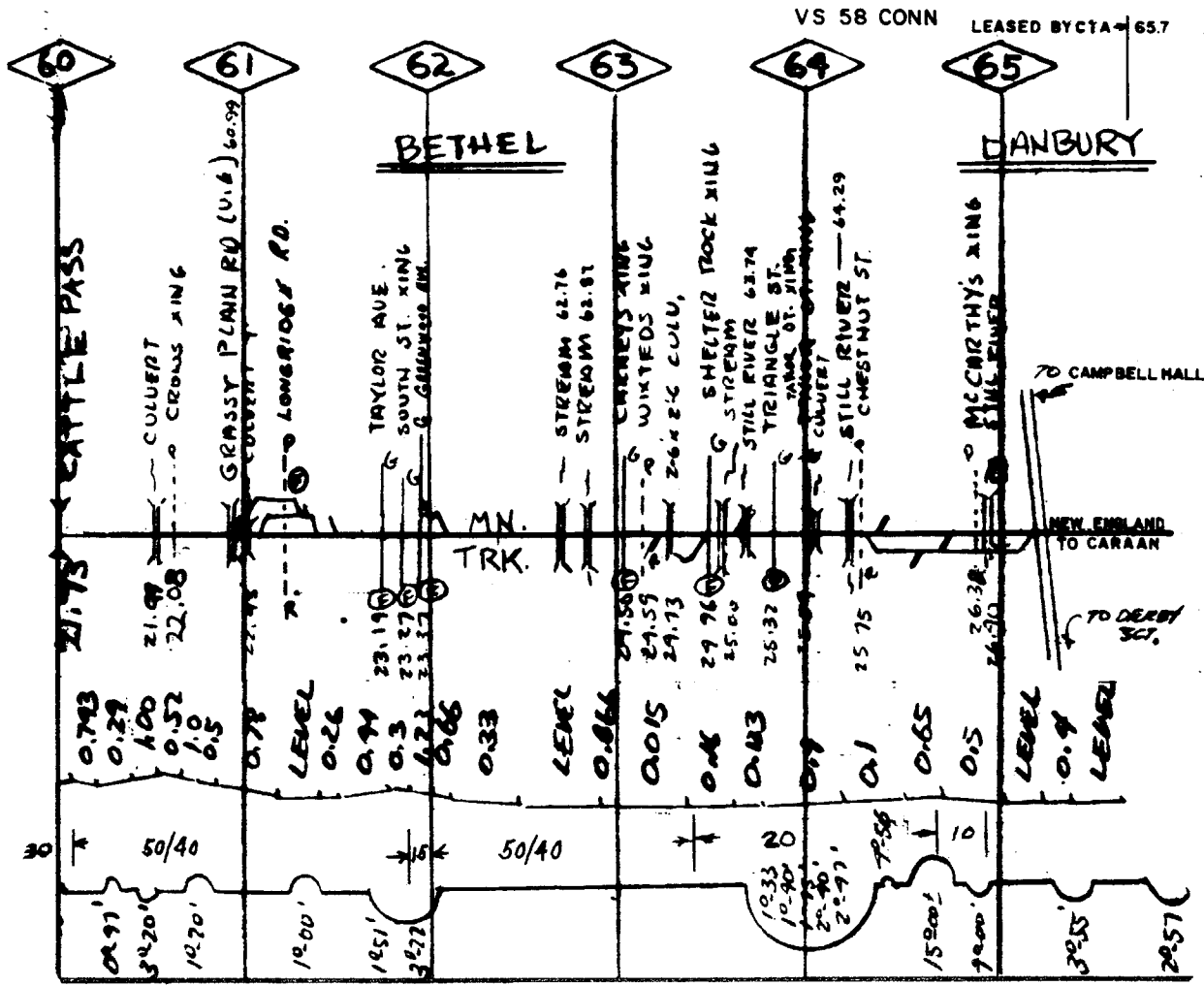
007



VS 58 CONN

GRINDING				
WELDING		76TH		
SURFACING	81E		79P	176E
TIES		73		
UNDERCUTTING				
RAIL	31F74			
BAL. CLEAN				
TONNAGE (HGT)		0.4		

007



GRINDING	69				
WELDING					
SURFACING	81E	79P			
TIES	79ST			79	
UNDERCUTTING					
RAIL	40-60 V ////////////////////////////////////// 31F60 ////////////////////////////////////// 40-56				
BAL. CLEAN					
TONNAGE (MGT)	10.3				

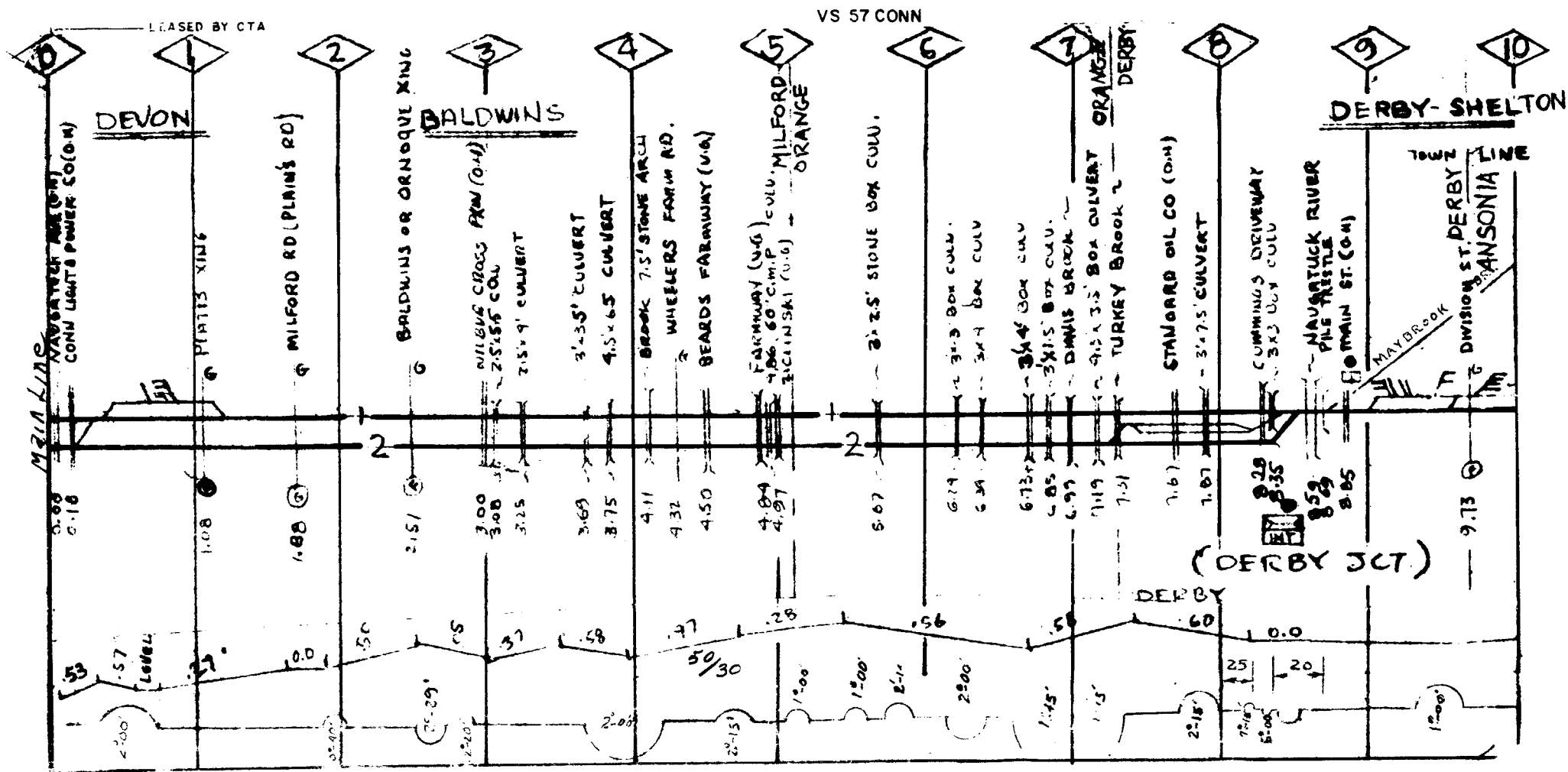
001

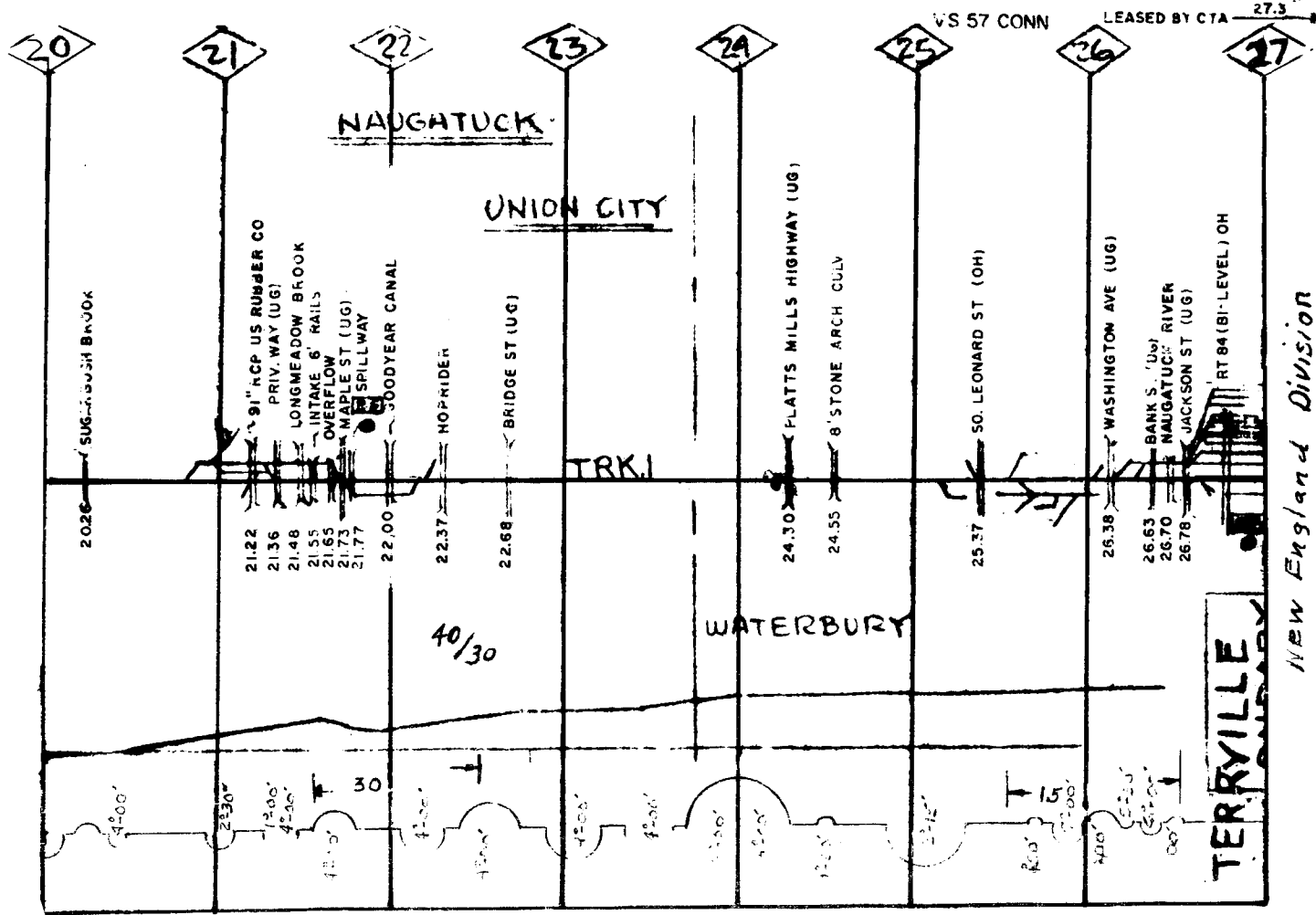
GRINDING		
WELDING		
SURFACING	77E	79P
TIES		
UNDERCUTTING		
RAIL	31-56	31-47 12-47
BAL. CLEAN		
TONNAGE (MGT)	1.1	

007

GRINDING				
WELDING				
SURFACING	81E	79P	78P	77E 79P
TIES		77	78	77 79
UNDERCUTTING				
RAIL	30-29	31-41	30-30	V 12F75/ 30-30 30-31
BAL. CLEAN				
TONNAGE (MGT)				

002





GRINDING						
WELDING						
SURFACING						
TIES			79P			
UNDERCUTTING			79			
RAIL	31-56	12-47	31-	12-47	00-20	
RAIL CLEAN						
TONNAGE (MGT)			1.1			

007

GRINDING	80(1)	
WELDING	75TH	
SURFACING	79E	74E 80E
TIES	79	82 80ST
UNDERCUTTING		
RAIL	19-75	19-74
RAIL CLEAN		
TONNAGE (MGT)	0.4	0.5

004

GRINDING	80(1)	79(1)	80(2)	79(2)	79TH	79TH
WELDING						
SURFACING	80E	80	81E	81	79E	79E
TIES		80			81	81
UNDERCUTTING						
RAIL	19-72	19-73	05-49	19-80	19-77	19-79
RAIL CLEAN						
TONNAGE (MGT)	0.7	0.6	0.4	0.2		

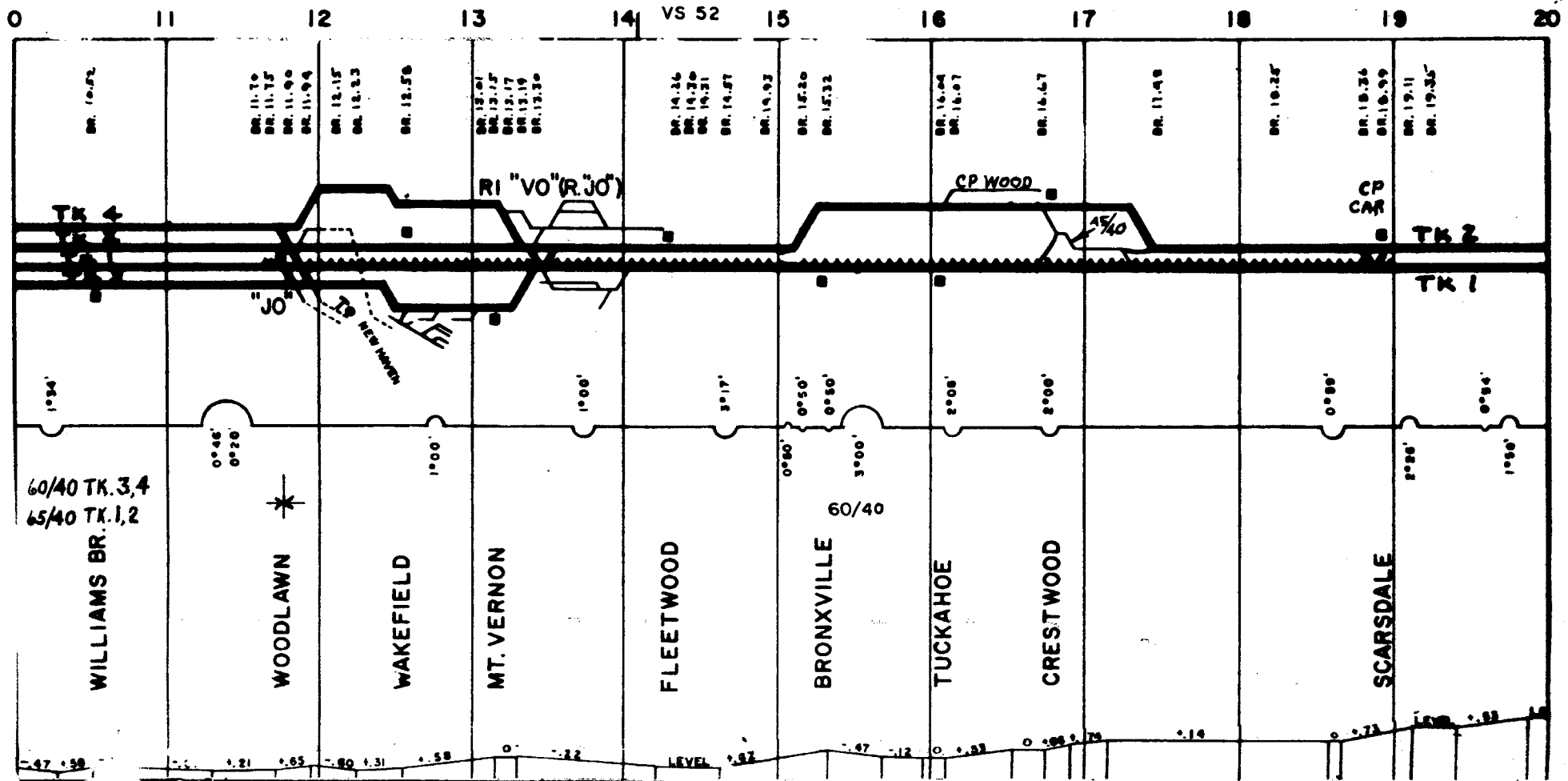
002

GRINDING		76TH	80(1)			
WELDING						
SURFACING	78E	78E	81E	73E	81E	
TIES	78	78	81	81	81	
UNDERCUTTING						
RAIL	19-74	15-59	05F67	05F67	15F68	19-74
RAIL CLEAN						
TONNAGE (MGT)	0.6	9.1	0.4	0.2	8.9	

001

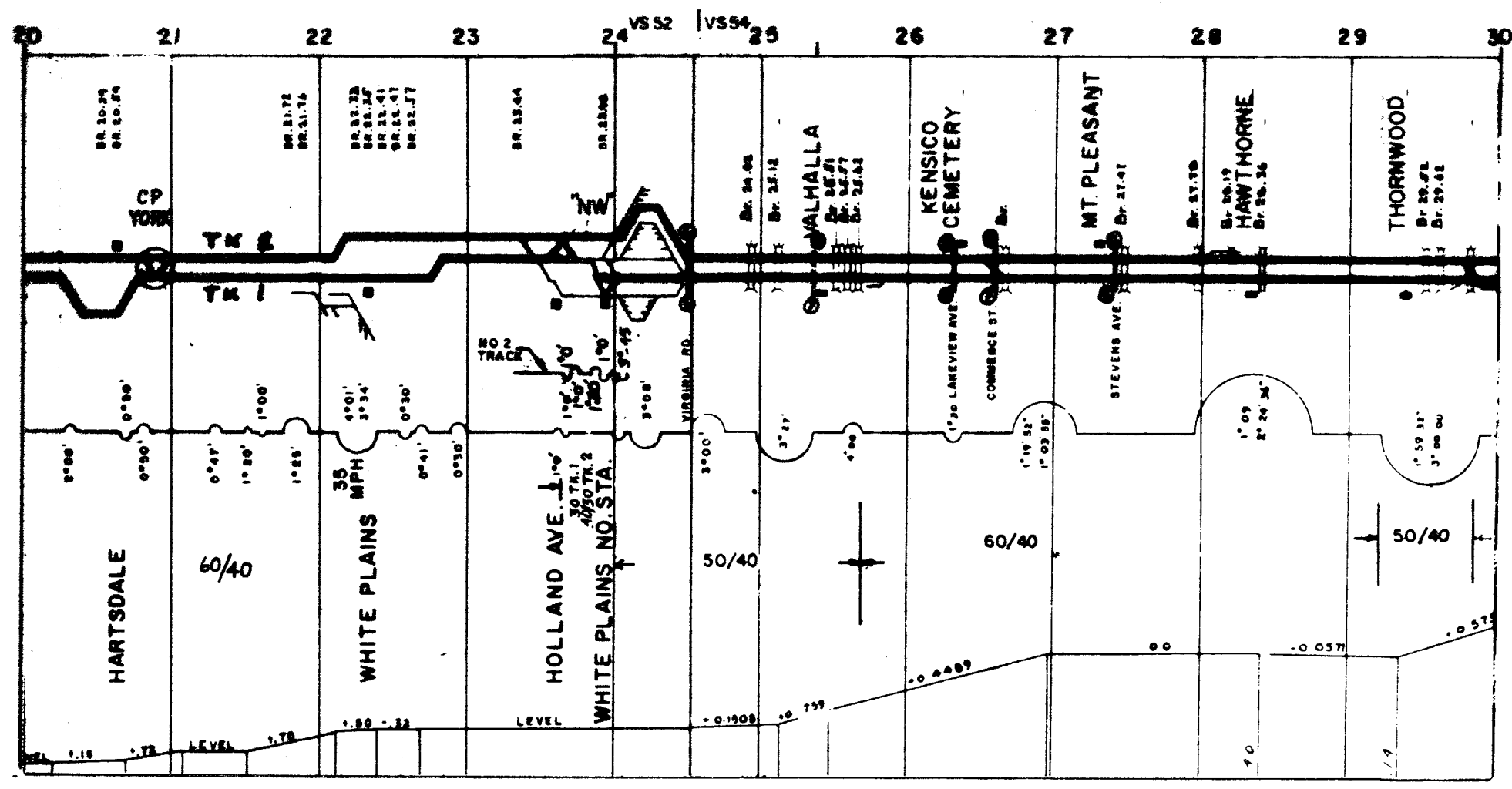
GRINDING			
WELDING	75TH		
SURFACING	80E	74E	80E
TIES	80	80ST	
UNDERCUTTING			
RAIL	19-74		
RAIL CLEAN			
TONNAGE (MGT)	0.5		

003



GRINDING	79 (2)		79 (2)		65		81E		81W			
WELDING	79TH		79TH									
SURFACING	78E	78E	78E	78E	78E	78E	78E	78E	78E	78E	78E	78E
TIES	66	66	66	66	66	66	66	66	66	66	66	66
UNDERCUTTING												
RAIL	19-79 19-79 19-79 19-79 19-79 19-79 19-79 19-79 19-79 19-79 19-79 19-79											
RAIL CLEAN												
TONNAGE (AGT)	0.2											

GRINDING	80 (1)											
WELDING	80E		80E		80E		80E		80E		80E	
SURFACING	81E	81E	81E	81E	81E	81E	81E	81E	81E	81E	81E	81E
TIES	81	81	81	81	81	81	81	81	81	81	81	81
UNDERCUTTING												
RAIL	19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74											
RAIL CLEAN												
TONNAGE (AGT)	0.2											



GRINDING		
WELDING	63	
SURFACING	78E	76E
TIES	78	78
UNDERCUTTING		
RAIL	05-30	
RAIL CLEAN		
TONNAGE (MGT)	0.3	

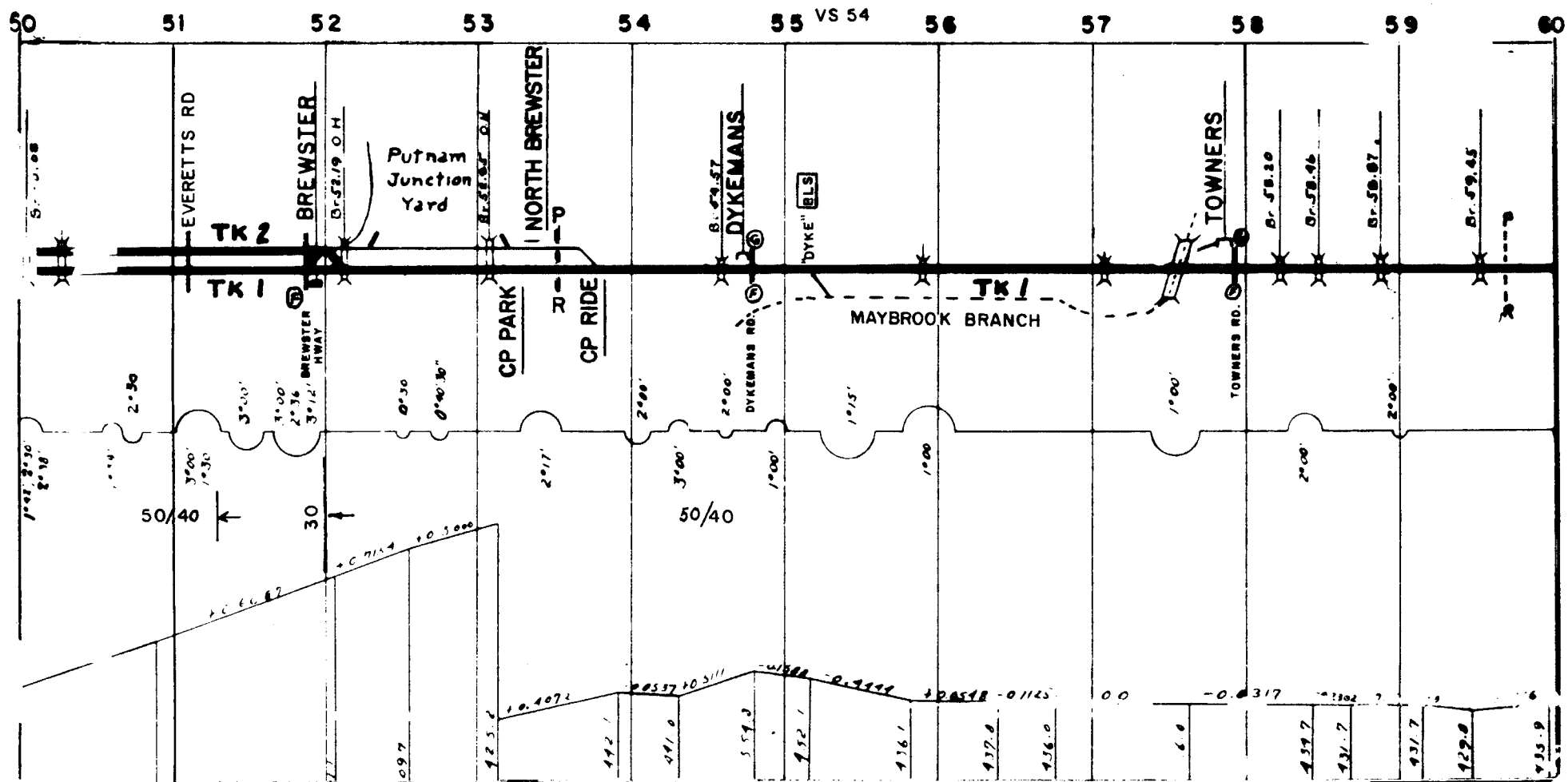
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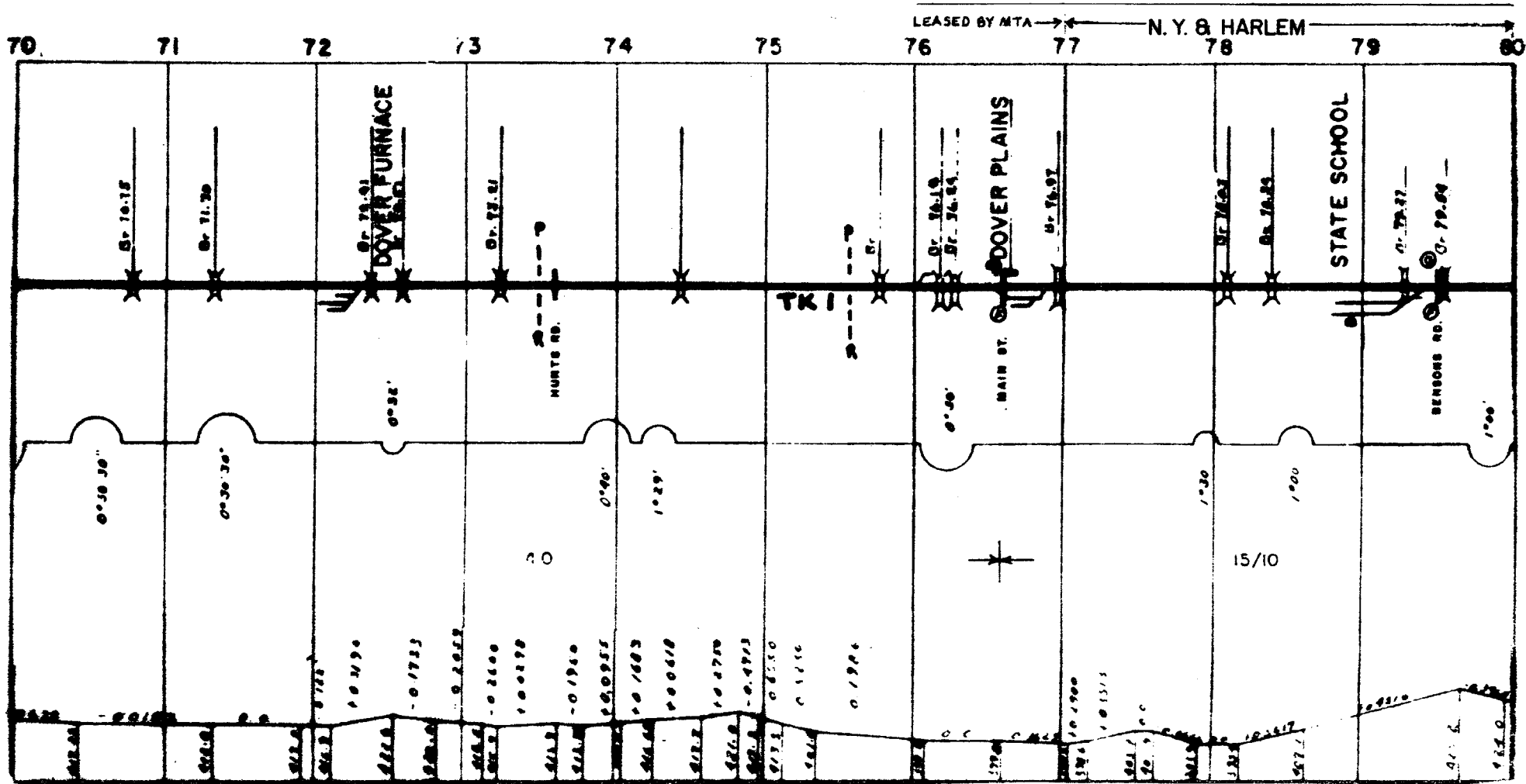
GRINDING		
WELDING	65	
SURFACING	81E	78E 73E 68E
TIES	81	80
UNDERCUTTING		
RAIL	05-48	
RAIL CLEAN		
TONNAGE (MGT)	0.3	

001

GRINDING			
WELDING			
SURFACING	80P		77E
TIES	80ST		77ST
UNDERCUTTING			
RAIL	05-51R	05-50R	05-19
RAIL CLEAN			
TONNAGE (MGT)		0.0	

C07



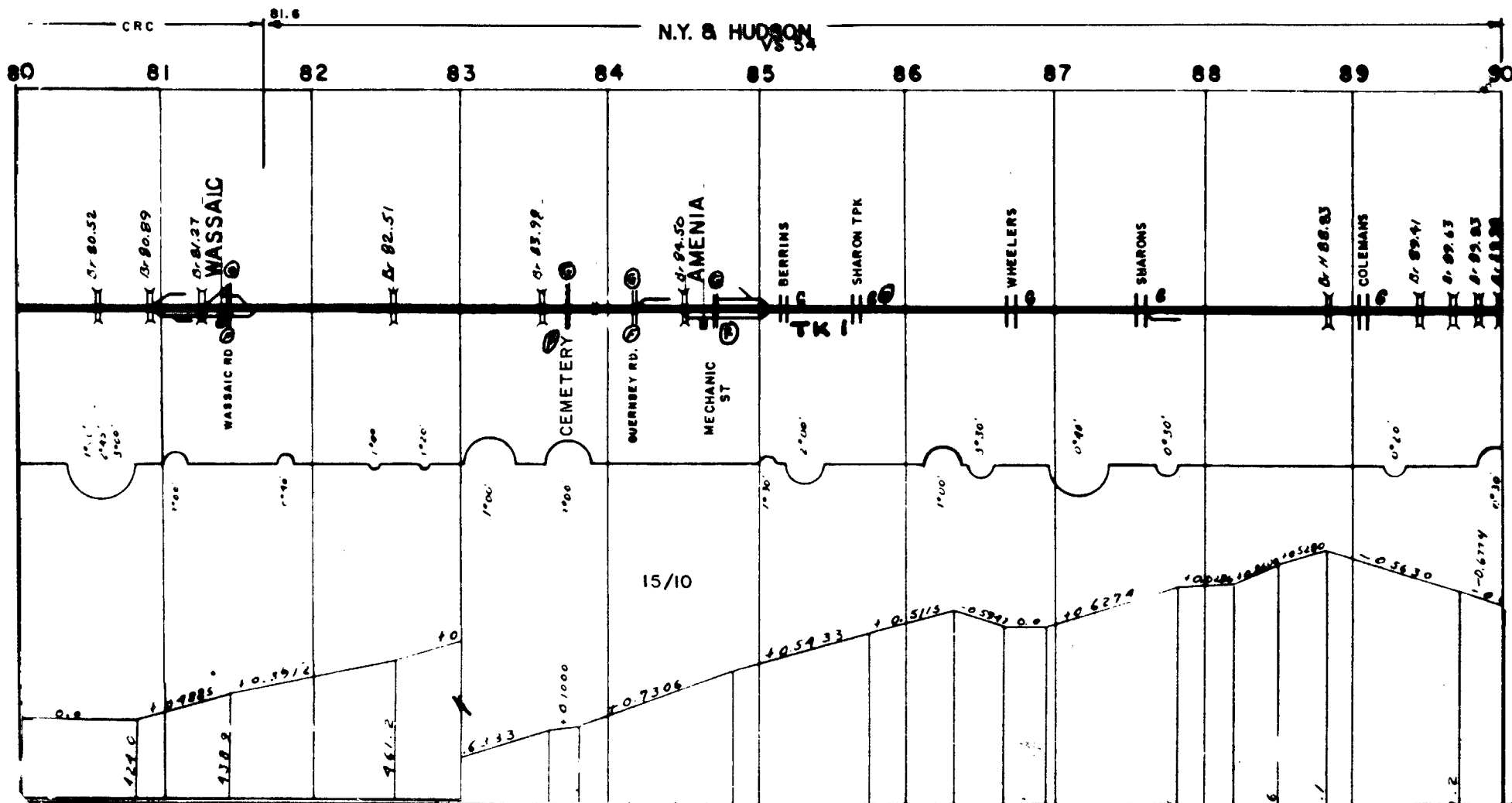


GRINDING	
WELDING	
SURFACING	57
TIES	57
UNDERCUTTING	
RAIL	05-22 05-25
RAIL CLEAN	
TONNAGE (HGT)	0.1

007

GRINDING	
WELDING	
SURFACING	
TIES	
UNDERCUTTING	
RAIL	05-25 05-21
RAIL CLEAN	
TONNAGE (MGY)	0.1

007



GRINDING			
WELDING			
SURFACING		78P	
TIES		78	166
UNDERCUTTING			
RAIL	27F80	00-19	00-23
BAR CLEAN			
TONNAGE (MGT)			

007

