"Statement of Block Signals In Use on the Road" September 1896 Norfolk & Western Railway



A Rendition in Microsoft Excel of Information Contained in an Old Document

> Created by Abram D. Burnett February, 2012 A.D.

INTRODUCTION

In 1988, William M. Harman, a 1940-hire N&W Radford Division Telegrapher, sent me a document produced by the N&W Ry. in 1896 and titled "Statement of Block Signals in Use on the Road, September 1896." At the time he sent me this item, I had known Bill for more than thirty years.

The document dates from a decade before the N&W's first limited use of Automatic Block Signals. The "Block Signals" it references are those used at Telegraph Offices which blocked trains under Manual Block Rules, operated by hand. It also references signals which were used exclusively as Train Order Signals, not being used as Block Signals.

For each station listed, there are ten columns of information, delineating whether the signal was an absolute block signal or a permissive block signal; whether it had one or two semaphore blades; whether it was pulled by pipe, wire or rope; and whether it met "Present Standards" or was "Old Form Prior to 1890" (the meaning of which category I do not understand.)

The document from which I worked is a carbon copy of a typescript, made on onion skin paper with green (not black) carbon paper, and consists of five sheets. It was typed vertically on legal size paper (8.5" x 11",) was mounted on a hard paper backing sheet and attached thereto with three brass brads at the top, and was folded twice, to facilitate easy storage. As folded, the document measures 8.5" x 3.75". I was obliged to use a magnifying glass to read most of the document.

The document is badly faded, is almost illegible, and is in deteriorated condition. It is so badly faded that it could not be satisfactorily reproduced by either scanning or Photoshopped digital images. Therefore, realizing the historical significance of the document, I undertook to set up in the Microsoft Excel program all the data it contains, using the same columnar arrangement as the original.

In transcribing the document into Excel, I have in all cases followed the orthography, capitalization and abbreviations of the original, even where some abbreviations differ at different places in the original.

Now that I have finished my work with the document, I am donating it to the N&W Railway Historical Society Archives in Roanoke, Va, where it will be available for future generations.

I have also added at the end of this PDF file a reproduction of the four page, pencil-written letter of June 30, 1988, which Bill Harman included when he sent me the document, a smaller note he included in the envelope as a post script, and a copy of a Xerox reproduction he included showing two pages from an old Time Table (no date available.)

Bill's father and grandfather had both been telegraphers on the Radford Division. If I recall the story correctly, Bill's grandfather had known and been favorably impressed with a Philadelphia contractor named Gaynor, who had been employed by the N&W in the 1890s to construct the "Charlton Grade," a new line extending eastward from Vicker to raise the alignment up out of the Crab Creek bottoms. The Grandfather had been so favorably impressed with the contactor that he named his own son after him, Gaynor. (Gaynor would have been Bill's father.) Bill several times asked me if information could be developed on Gaynor, the contractor from Philadelphia, but I could never find a trace. Also to be mentioned is the fact that the ICC Railroad Accident Investigation Reports at least twice reference an operator (towerman) Harman who had been involved in collisions at Belspring and Walton. I do not know if the person(s) mentioned was/were related to Bill.

I would be remiss if I did not, in preserving and disseminating this information for posterity, mention that Bill Harman was a Southern Gentleman of the Old School, a kind and charitable man. I think I first met Bill when he was working at "DO" Telegraph Office at 16th Street, Roanoke, in the mid-1950s. But I got to know him in 1957, when I was a young man riding passenger trains between Roanoke and Christiansburg, where he was (I think) the relief Agent.

Two weekends before Bill became a "Silent Key" in May of 2000, I was privileged to spend about twenty minutes working a Morse telegraph wire with him. He was at a Morse Day gathering in Roanoke, and I was seated in "SW," my own basement telegraph office in Pennsylvania. We were working over the national telegraph wire which was at that time set up annually on the Saturday nearest Samuel F.B. Morse's birthday in April.

You were a good man, Bill, and always a good influence on the younger generation. Blessed Repose and Eternal Memory.

Abram Burnett New Cumberland, Pennsylvania February 18, 2013

				Page	Mo.	4)		an An and a se		
Stations & Offices.	Absolute Block	Permissive' Bloch.	One Blade	Two Blades	Present Standard.	Pipe Competed	Wire Connected	916 Form Prior to 1890		Remarks:
Shen.Div.Con'td:										
Ashby	1		1		1	1				Not in use.
White Post	1	and great		2 months	1	1111		and the		and the second state of the second state of the
Boyce Berryville	+		+	Ser.		1		1.		A State of the second sec
Rippon	1		1		+	4	Carlos and		A LINE CON	
Charles Town	1-1		ĩ		11111		Sec.	A	12	deter on the
Shepherdstown	1		1		1	11				Bry these way
Antietam	1		1			1			and the	Said ora spect
St.James	1		1	Sec. 1	1	1		North L	North I	andarts and bot
FULASKI DIV'N:								· ·		for Massign
Dublin								5 . ESC.		
N.G.June.	1111		-					11	1	
Pulaski Office	ī		ī					ĩ	i	
Pulaski Station			1		1	1		Second Second	Cert And	For orders only.
Max Meadows	1 I I	Contraction of				- Cart		1	1	
Wytheville	1		1				a ange	1111	1	Note: On Pulaski
Crockett Rural Retreat		San Martin	1	A Section		Statistical L	No.		1	Div.red flag & lantern are used
Atkins	111		-	A State		Sa of		5	-1-	to indicate
Varion			1	- Nor			States.	1 1 1	1	presence of
7 Mile Fora	1	- Seed	1	Cart L		AND AND	State of	1	1	Train Orders -
Chilhowie	1	Contraction of	I		A STATE			1		and the second
Glade Spring			1					1	1	Lord and Strategy of the
Meadow View	ł		i					1	1	a state of the state of
Abiugdon Wyndale	-						Start III			
Wallace	+	argument p	1	Series and	the second	and the second		1	1	an an an an an an an

Scan of a portion of Page 4 of the original document, after heavy Photoshopping to improve color and contrast. Page 1 was so badly faded that it could not be satisfactorily reproduced either by scanning or by Photoshopped digital imaging.

Filename: N&W Block Signals 1896_new 2-17-2013

BLOCK SIGNALS IN USE ON THE ROAD, SEPTEMBER 1896. ISSUED BY ENG. MAINT of WAY, SEPT. 21, 1896 (NORFOLK & WESTERN RAILWAY)

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
NORFOLK DIV'N:										
N. & S. Junction	1		1					1	1	
Tucker	1		1					1	1	1
Suffolk	1		1					1	1	1
Windsor	1		1					1	1	
39 Mile Office	1		1					1	1	NOTE: On Norfolk Div'n. red flag and
lvor	1		1					1	1	lantern are used to denote presence of
Wakefield	1		1					1	1	Train Orders.
Waverly		1		1	1	1				
Disputanta		1		1	1	1				
Church Road		1		1	1	1				
Ford		1		1	1	1				
Wilson		1		1	1	1				
Wellville		1		1	1	1				
Blackstone		1		1	1	1				
Nottoway		1		1	1	1				

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
LYNCHBURG DIV'N:										
Burkeville	1			1				1	1	
Rice	1			1				1	1	NOTE: With expeptions named below,
Farmville	1			1				1	1	red flag and lantern are used to
Prospect	1			1				1	1	indicate presence of Train Orders on Lbg. Div.
Pamplin	1			1				1	1	
Evergreen	1			1				1	1	
Appomattox	1			1				1	1	
Spout Spring	1			1				1	1	
Concord	1			1				1	1	
James River Siding		1		1	1					
Lynchburg Tower	1		1					1	1	
Durham Junction	1			1	1	1				
Bellevue Office		1		1	1	1				
Lowry		1		1	1	1				
Bedford		1		1	1	1				Office in Frt. Station
Thaxton		1		1	1	1				
Montvale		1		1	1	1				A third arm for Train orders attached.
Blue Ridge		1		1	1	1				
Bonsack		1		1	1	1				A third arm for Train orders attached.
E. End D.T. Roanoke Tower	1			1	1	1				
West Roanoke Tower		1		1	1	1				

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
RADFORD DIV'N:										
Salem Tower		1		1	1	1				1
Deyerle Tower		1		1	1	1				1
Elliston		1		1	1	1				1
Shawsville Station		1		1	1	1				NOTE: On Radford Div. red flag &
Montgomery Office		1		1	1	1				lantern are used to indicate the
Houchins Office		1		1	1	1				presence of Train orders.
Christiansburg Tower		1		1	1	1				
Vicker Tower		1		1	1	1				
E. Radford		1		1	1					
Radford Tower		1		1	1	1]
Schooler Office		1		1	1	1]
Belspring		1		1	1	1				

End Page 1 of Original Typescript

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
RADFORD DIV. Cont'd.										
Dry Branch Office		1		1	1	1				
Eggleston		1		1	1	1				1
Pembroke		1		1	1	1]
Ripplemead		1		1	1	1]
Curve Office		1		1	1	1				
Shumate Office		1		1	1	1				
Lurich		1		1	1	1				
Wills Office		1		1	1	1				
Oakvale Office		1		1	1	1]
Hardy Office		1		1	1	1]
E. River Office		1		1	1	1				
Ada		1		1	1	1				
POCAHONTAS DIV'N:										
Bluefield E. End		1		1	1	1				For Rad. Div. Trains
Bluefield Tower		1		1	1	1				Interlocked
Graham Tower		1		1	1	1]
F. Top Yd. Tower		1		1	1	1				
Bluestone Jct.		1		1	1	1				NOTE: On Poca. Div. red flag and
Cooper										lantern are used to denote presence of
E. End Tunnel		1		1	1	1				Train Orders.
Coaldale		1		1	1	1				
Switch-back		1		1	1	1				

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
Ennis		1		1	1	1				
Elkohrn		1		1	1	1				E. End 2nd. Track
N. Fork		1		1	1	1]
Eckman		1		1	1	1]
Vivian Yd.		1		1	1	1]
Welch	1		1					1	1	
Hemphill		1		1	1	1]
Davy		1		1	1	1]
Roderfield		1		1	1	1]
laeger		1		1	1	1]
Panther		1		1	1	1]
Alnwick		1		1	1	1]
Bramwell	1		1					1	1]
Simmons	1		1					1	1	
KENOVA DIV'N:										
Thacker	1			1	1	1]
Williamson	1			1	1		1			
Nolan	1			1	1		1			NOTE: On Kenova Div. red flag and
Naugatuck	1			1	1		1			lantern are used to denote presence of
Canterbury	1			1	1	1				Train Orders.
Dingess	1			1	1		1			
Braden	1			1	1	1				
Wilsondale	1			1	1		1			
Dunlow	1			1	1		1			
Radnor	1			1	1	1				
Wayne	1			1	1		1			
Lavalette	1			1	1		1			
Kenova Office	1		1				1	1		For SVDiv. Trains

End Page 2 of Original Typescript

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
SCIOTO VALLEY DIV'N:										
N. Kenova	1		1	1			1			
Coal Grove	1		1	1			1			1
Ironton	1		1	1			1			Office in Pass. Sta.
Hanging Rock	1		1	1			1			
Haverhill	1		1	1			1			
Franklin Furnace	1		1	1			1			
Wheelersburg	1		1	1			1			
Sciotoville	1		1	1			1			
Portsmouth	1		1	1			1			Office in Pass. Sta.
Lucasville	1		1	1			1			
Clifford	1		1	1			1			NOTE: On Scioto Div. red flag and
Wakefield	1		1	1			1			lantern are used to denote presence of
Piketon	1		1	1			1			Tr. Orders.
Waverly	1		1	1			1			
Highby	1		1	1			1			1
Chillicothe	1		1	1			1			Office in Frt. Sta.
Kingston	1		1	1			1			1
Circleville	1		1	1			1			Office in Frt. Sta.
Asheville	1		1	1			1			
Valley Crossing	1		1	1			1			

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
SHENANDOAH DIV'N:										
Hollins	1		1		1	1				
Cloverdale	1		1		1	1				
Troutville	1		1		1	1				1
Nace	1		1		1	1				NOTE: On Shen. Div. red flag & lantern
Lithia	1		1		1	1				are used to indicate the presence of Train
Buchanan	1		1		1	1				Orders.
Solitiude	1		1		1	1				
Natural Bridge	1		1		1	1				
Glasgow	1		1		1	1				
Buena Vista	1		1		1	1				
Riverside	1		1		1	1				
Midvale	1		1		1	1				
Vesuvius	1		1		1	1				
Lofton	1		1		1	1				Not in use.
Greenville	1		1		1	1				
Stuart's Draft	1		1		1	1				
Lyndhurst	1		1		1	1				
Basic	1		1		1	1				
Crimora	1		1		1	1				
Grottoes	1		1		1	1				
Port Republic	1		1		1	1]
Island Ford	1		1		1	1]
Elkton	1		1		1	1]
Shenandoah	1			1	1	1]
Ingham	1		1		1	1				Not in use.
Stanley	1		1		1	1]
Luray	1		1		1	1]

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
Vaughan's Summit	1		1		1	1				
Rileyville	1		1		1	1				
Manor	1		1		1	1				Not in use.
Front Royal	1		1		1	1				
Riverton	1		1		1	1				
En	d Page	3 of C) rigina	I Types	script		-			
Ashby	1	1	1		1	1	1	l		Not in use.
White Post	1		1		1	1				
Воусе	1		1		1	1				
Berryville	1		1		1	1				
Rippon	1		1		1	1				
Charles Town	1		1		1	1				
Shephardstown	1		1		1	1				
Antietam	1		1		1	1				
St James	1		1		1	1				
PULASKI DIV'N:										
Dublin	1		1					1	1	
N.C. Junc.	1		1					1	1]
Pulaski Office	1		1					1	1]
Pulaski Station	1		1		1	1				For orders only.
Max Meadows	1		1					1	1]
WythevilleCrockett	1		1					1	1	
Rural Retreat	1		1					1	1	NOTE: On Pulaski Div. red flag &
Atkins	1		1					1	1	lantern are used to indicate the
Marion	1		1					1	1	presence of Train Orders.
7 Mile Ford	1		1					1	1	
Chilhowie	1		1					1	1	
Glade Spring	1		1					1	1	
Meadow View	1		1					1	1	

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
Abingdon	1		1					1	1	
Wyndale	1		1					1	1	1
Wallace	1		1					1	1]
N.C. DIVISION:										
Draper	1		1					1	1	
Allisonia	1		1					1	1	1
Barren Springs	1		1					1	1	
Bertha	1		1					1	1	NOTE: On N.C. Div. red glag &
Foster Falls	1		1					1	1	lantern are used to indicate the
Austinville	1		1					1	1	presence of Train Orders.
Ivanhoe	1		1					1	1	
Grayson	1		1					1	1	Not in use.
Kayoulah	1		1					1	1]
C. V. DIVISION										
Тір Тор	1		1					1	1	1
Tazwell	1		1					1	1	
Pounding Mill	1		1					1	1	NOTE: On C.V. Div. red glag &
Cedar Bluff	1		1					1	1	lantern are used to indicate the
Richlands	1		1					1	1	presence of Train Orders.
Swords Creek	1		1					1	1	
Honaker	1		1					1	1]

Stations & Offices	Absolute Block	Permissive Block	One Blade	Two Blades	Present Standard	Pipe Connected	Wire Connected	Old Form Prior to 1890	Cord Connected	Remarks
Finney	1		1				-	1	1	
Cleveland	1		1					1	1	
Carterton	1		1					1	1	
Castlewood	1		1					1	1	
St. Paul	1		1					1	1	
Virginia City	1		1					1	1	
Coeburn	1		1					1	1	
Tacoma	1		1					1	1	
WINSTON-SALEM DIV:						ypescri				
Starkey	1		1					1	1	
Boone's Mill	1		1					1	1	
Rocky Mount	1		1					1	1	NOTE: On W-S. Div. these signals
Ferrum	1		1					1	1	are used only for train orders and
Henry	1		1					1	1	not for blocking.
Bassett	1		1					1	1	
Martinsville	1		1					1	1	
Ridgeway	1		1					1	1	
Stoneville	1		1					1	1	
Madison	1		1					1	1	
Pine Hall	1		1					1	1	
Walnut Cove	1		1					1	1	4
Walkertown	1		1					1	1	

Office of Eng. Maint. of Way, Roanoke, Va., Sept. 21st, 1896 Letter from William M. Harman to Abram D. Burnett, written June 30, 1988. The first line is the "service," written just as it would be written on a transmitted telegram and means "1st message of the day from "RG" Christiansburg, sent by "W" (the sending telegrapher's personal sine,) filed 1:15pm, 30th day of month, 1988."

N&W FORM G. 4

PRINTED IN USA

1 RG W 115P 3oth 88 Dear at your letter and certranty did enjoy the Contents Printe of NAV lacations Jonie old Fard Salin at a Elkhoin Junnel 11 ano Toplas Kadford to go across Choply. Blufield anch my Dad nesel Call for Doni llow Cut have a mentioned there unless there was one bling When the Double allen Was Mary Sorry Train Dupatcher, NS is goin hear of is plight 02 th to do the thing in Koanstas Va Computeried Deeper some philts of No have The mull of only hoth. Those amotrong and UNIS lilami The like the ald tower at arthur + Bx electric, has morto un one switch, reverse palarite on the molor and it throw a the Switch I have a 1890 Now Kule book ypertina march 1 5 a wool's april E. Radford Stamp Jul 11, 1894. Page 34 "Rules for Block Signals Rules for Jelegraph operators page 89 mile 440. When two passings Ime are running in the Same direction, they must display a les sugrial inemedian Irain passes, and ration of filler at the up White Signal to the fallowing train unless some form of to also have 1891 1895 1896 Use all ave Same in h a to gord instructions AA. ets HOW Ima What govins the open or annulled ation of the Rankroa RAAK Travel, Qui Inpersedes rink Specia Kirle Book. + Superselles QIN bath order. & Say That THU, + wan and ha overales to name. a Name "Roanate Chba VA Virginia This 0a Standar was adosted -1855-1860 ami table. on Real or Write The engineers that to Bin Spaulding Amming; fam

N&W FORM G. 4

PRINTED IN USA

Sarm. This was also the same time or close to it more trains were at led and the block Systems were adapted. Parts of the large density line was sould Tracked "Rolle To Ellister" "Sug Branch To Ripplement President to Pure 1" to Cearisbury to Levich' ite. Mr B. H Smith told me when I was on the R+P dept for Rad Dir that the By Tower at cho Va was the most important place on the Radford Dir. that if you had trouble on either side you had the entire RR teed up. and boy did he know what he was talking about. Since all the sidings have been but out a freight train stallade a few Car lenghts like of Shawsville Station, slack ran up hill and broke the train in Two Pulling the Alt But of the Wart and of a hopper Can wert of the highway Crassing blocking the School bus to plike up the kills going To School, the Can knd to be chained up and taken to chig yard and set off tying the with up for Jwo hours and a half the people in shawaville got a warent fir the RR Co and served it on the Depot algort at change (me) went to court as Va law says you can't block a sighne Crassing lovies than 15 mins, the Julyes father used to be second trul operator bit White there and Understood the situation and let the Na of with a promise To do better HA! HA! Awonked at Galagila, in 1942, had I Passinger Train, 1 This Fat Part To 29" 1 Fort Train "JN" To "VA" (Sevendue, 1 Dri weeks Fright & Pars Fol give I Bon Swi (Art Robert) to Borren Springs (Betty Baker) The Friends train to Galan was first out of Pulashi & arrived at Galan before the Pass Train that mad Conn evil No 14+ Nog at Gulach left Chilasta, however the Pass train ran on absolute block. Then the Pass Train left Galar it ran up Tries Branch, and the Freight hair Would be ready to leave, the opr at Galax would ask the Disp for a Permissive block Cleannee Card, he the would give the gen a Cand by letter "B" like Bumblehe", at 130 pm From Galax Va. To Fries got or austimille Va, and usually the Treight could make a Stranger an into Palashi aherd of the Pass thain, the Pass Irain would return from Fries to Friisgh" hegister" Call Dispon and get the Block to Ivanhae, then dranker would give the block to austinville and by time the Pass would get to austinville the Freight Would be in for or get a PC card from Austinville in Id Perlade

N&W FORM G. 4

PRINTED IN USA

Stating the time the freight gassed austinville if the freight hung upon Draper Hill the Pass than uouse Coople to this and Plush him in your holding on to his train. his train. When the Walton Cut of was installed thru Sepper Chinnel 1900 - 1903 they Unstalled an agence - Block at Pepper Va and Betspring Va to hand & the absolute block the Gepper Junnell. The Station at Pepper was a two story job a new lived repotance, Mr Ramsen & his Jamily my Dad worked second shiph there after 8 hr day Came into affect year Pamer, was wint a Bone, so old man Rumse his whe sother Children got a no Vavent into ladgod for them while the were gone. Bat: This section was absolute Pepper to Belgpring each way I these operators handled it. Walton gowen Was an armstrong off and only hondled Switches within' the lyse & lower area, also had two Switchman to throw the levers, opr honder morement, mags, & J. O for everything Each + West. Then tin 1915 70 197 auto block signed were installed, Coal wharf was moved from Wattoo to Vicken, Walton Joner was installed a gent Elec DC operated Tower Pipp Va ent out, Station Dismontha & Jaffen to white TOP NC on NC Branch, Cowan Tower Built Controlled from Bluff To Belspring electric type muchine pistol gip horizontut levero. Ken the attle Mallet engine walked out on the Scene goo dass V, The engineers of Rushers at walton teased the Levermon a open as being and and by a "Signal Sys" They Called the sion open, now the open tabled the Engra I furier for kunning two Engs as the mallets had Two Sets of Pastons I hope you can read this, I thought I'd send you a

N&W FORM G. 4 4 PRINTED IN USA dough draft for I know you will have Tome auston forget the inside Thanks for t any (tw) is a a 2 erman -•

Dear ad " 7-1-88 of the Pars Train, the Block was anothing the Vary it had not Cleaved "and" shen a PC cand was issued the Pars Train became the fright hadit Cleaned the Bill Harman Look this mill or " Black.

	TESTEEN CENERAL	DIVISION		n Numbers and	Distarces.
The State	alimabers STATIONS	From Notifulk	Station Numbers	TATIONS.	A lies
	57 Ceredo, Ecom, Morth Kasora, 570 Gol Grove, 590 Trouta, 590 Haveth 591 Franklin Furnace, 599 Franklin Furnace,	1 550 67 1 557 52 559 00	BS : BT : FS : BT : ST :	Lee C. and C. Co. Fullers Spur. 4 ; ; Lee C. and C. Co. Sallies Spur. , , ; Swa. C. and C. Co.	
	507 Sciotrille,	607 24	BT 6	Jas. C. and C. Co. P. R. C. and C. Co. Ob. C. and C. Co. Sxt. C. and C. Co. Tacoma, Ramsey, Norion, 1	158 04 158 75 459 89 459 44 459 64 459 64 459 64 459 64
C.	Cim Jean, 1997 Gim Jean, 1997 Waverly, 1997 Gao Omega 1997 Star Jingoya Star Comek, 1997			East Radford, Radford, New River, Melborn, Dublin, Nuc. Function, Pulaski, Murno, Nuc. Sunction, Pulaski,	300 60 301 76 302 85 315 94 312 18 314 80 315 91
	4956 1 officients 4 officien	555 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Clark's Summit Max Meadows, Kent,, 12 Wytherille, Grubb, Grubb, Eural Retreat, Creecher,	12 43 3533 65 3333 65 340 50 344 50 344 50 344 50 344 50 345 50
	bi bi bi bi bi bi bi bi bi bi	591 25 594 90 596 57 596 57 596 57 596 63 563 68	P 54 P 54 P 57 P 57 P 56 G. 8 G. 10	Affrins, Holston, Copenhaver Seven Mile Ford, Chilhowie, Clade Spring, Saltville, Math. Alkali Wks.	458 43 363 73 364 20 377 34 374 67 980 33 388 74 390 39
	 Y 3 Graham Farmácé Y 3 St. Clair. Y 7 Bailey Y 6 Five Oaks Y 19 Tazewell Y 19 Y 10 Y 1	565 34 365 57 369 30 373 14 376 01 385 00 385 43 388 30 307 89 307 89 304 50	P 391 P 391 P 393 P 394 P 394 P 403 P 404	Enory,	383 85 85 385 95 25 385 92 35 399 30 399 44 408 399 408 408 39
	V 34 Cedar Bluff, V 34 Richlands, Big Creek Branch, C.V.C. & I. Co. ;	897 00 807 00 803 80 403 80 404 00 . 408 16 406 25	a . 84 1 1	STATIONS.	Miles from X. C. Jct.
	V ao V ac V ac Hurt's V as Hurt's V as A Hurt's V as Marchaer, V as A Honaker, V as Monker, V as V as Honaker, V as V as V as Honaker, V as V as V as V as V as V as V as V as	107 45 108 73 115 122 117 118 120 00 124 01 128 62	X 7 X 8 X 11 R 8 R 5 T 1	Harper Delton, Allisonia, R. I. Junction, Kayoulah, Patterson Junction. Crawfords	4 #2 7 09 7 69 10 78 11 60 13 68 26 21 37 56
Stat Num H D D D	V 70 V 74 Castewood, V 77 St Paul, V 76 Russl, Cr. Br. Jrt. Russl, FL Br. Jrt.	431 48 434 19 436 26 440 32 443 23 443 54 746 69 147 11	R 6 7 R 7 R 10 R 15 E	Fipton, Marvin, Virnor Betty Baker, B. Baker Mines Frozer Sand Sdg.	19 40 10, 38 17 52 58 29 51 34 43 70 13 47 15 90
boodububee	RF 3 C.V. C and C. Oo. RC a R.C. C. and C. Co. V 8z Virginin City	440 77 447 87 447 98 50 453 00 453 48 455 42 3455 61 3455 72 3457 20	178 2 % 7 99.8 7 4 4 %	arrer, oster Falls, nd Camp Branch Insinville, peedwell Extn. vanhoe, vanhoe, vanhoe, vanhot,	15 77 8 80 8 07 8 43 55 33 48 12
				ireAt Outburst,	47 33

SPECIAL INSTRUCTIONS

1. All trains will keep to the right when running on double track.

2. The maximum speed of first-class trains between Roanoke and Radford is 45 miles per hour, between Radford and Bluefield 30 miles per hour. The maximum speed of Freight trains is 18 miles per hour. Work trains must not exceed 20 miles per hour.

Passenger trains must not exceed schedule speed descending grades between Bluefield and Lurich, Schooler and West End of Radford Double Track, and Christiansburg and Elliston. Freight trains must not exceed marginal time descending grades between Bluefield and Lurich, Schooler and West End Radford Double Track, and Christiansburg and Elliston. Special Rules A-7, A-9 and A-12 are annulled.

3. The block signals in use between West Roanoke and Bluefield are the permissive block signals, and freight trains will be spaced five minutes at all points, except between Elliston and Christiansburg, and between West End of Radford Double Track and Bluefield, where they will be spaced ten minutes. The block between Schooler and West End of Radford Double Track for eastbound freight trains will be operated as an absolute block. These signals do not give trains rights over trains moving in the opposite direction. Note Rules 201 to 216, inclusive.

4. Yard Master at East Radford will not permit westbound trains to follow a passenger train until the passenger train has passed the tower at West End of Radford Double Track, nor eastbound trains to follow a passenger train until the passenger train has passed Vicker.

5. The Operator at West End of Radford Double Track will not permit eastbound trains to follow a passenger train until the passenger train has arrived at East Radford station.

6. The Double Track extending from Roanoke to Elliston will be known as Roanoke Double Track, and the Double Track extending from Christiansburg to New River Bridge will be known as Radford Double Track.

7. The Operator at Elliston End Double Track will register all Eastbound Trains and all Westbound Passenger Trains. Conductors of Westbound Freight Trains will register their trains.

8. The Operator at the West End of Radford Double Track will register all Eastbound Trains