

Southern Railway System

*Operating Department
Office of Superintendent
P.O. Box 1791
Knoxville, Tennessee 37901*

PAUL R. RUDDER
SUPERINTENDENT

October 2, 1975

TELEPHONE
(615) 522-7225

File LH-65

Mr. Richard A. Hall, Engineer
Harriman Utility Board
P. O. Box 434
300 Roane Street
Harriman, Tenn. 37748

Dear Mr. Hall:

In connection with your letter dated August 21, addressed former Superintendent Greenwood, making application for an overhead wire line crossing on Railway property 1150 feet southwest of Mile Post 48-D, I enclose draft of proposed agreement between Southern and the City of Harriman, Tennessee, which kindly have executed by the Chairman of the Utility Board and return both copies to me with certified copy of resolution authorizing him to sign as well as the City's check for \$50. We will then have the agreement executed by Southern and furnish you counterpart for your records.

Please do not date the agreement as that will be done when signed by Southern.

Yours truly,

PR Rudder
Superintendent

Enc.

August 21, 1975

Mr. J. O. Greenwood, Superintendent
Southern Railway System
P. O. Box 1791
Knoxville, Tennessee 37901

Dear Mr. Greenwood:

The City of Harriman, Tennessee acting by and through the Harriman Utility Board, request the approval of our application for crossing over your Harriman to Knoxville track approximately 1150 feet Southeast of Milepost 48.

We submit the following data covering this application.

- | | |
|------------------------------------|---------------|
| 1) Location | See above |
| 2) Type Utility | Electric |
| 3) Type of wire | (336.4 ACSR |
| | (3/0 ACSR N |
| 4) Maximum Voltage | 15 KV |
| 5) Three (3) Prints | |
| 6) Harriman Utility Board Members: | |
| | Olin Williams |
| | Bill Newcomb |
| | Allan Watson |
| | Bob Moody |
| | Ed Browder |

Very truly yours,

Richard A. Hall
ENGINEER

RAH:el

Enclosures: 1 Application
3 Prints

TVA SURVEY
MARKER D-195
1950

TO KNOXVILLE

MP48

13200 V

13200 V

1150

WEBSTER

PLAN

3-336.4 ACSR
1-3/8 ACSR N

MIN CLEARANCE 35'

PROFILE

SA
PIN INS

DADE
STRAIN INS

POLE "A"

POLE "B"

HARRIMAN UTILITY BOARD
HARRIMAN, TENNESSEE

CROSSING PLAN & PROFILE
SOUTHERN RAILWAY SYSTEM
APPROX 1150' S.E. OF MP 48
HARRIMAN TO KNOXVILLE LINE
ROANE COUNTY, TENN

RHALL

DATE 8-20-75 DWG. NO. 39-5

SOUTHERN RAILWAY SYSTEM

APPLICATION FOR WIRE CROSSING

ELECTRIC LIGHT, POWER SUPPLY AND TROLLEY LINES

To the Superintendent of Knoxville Division: _____
 The undersigned hereby makes application to cross the right of way of the Southern Rail way _____
 Company with a line of wires, as described below, forming a part of the applicant's line extending from U S 27
Webster Pike _____, and hereby agrees to construct, install, maintain and renew
 said crossing in strict accord with the applicable requirements of the latest issue of REPORTS OF JOINT ENGINEER-
 ING COMMITTEE OF ASSOCIATION OF AMERICAN RAILROADS AND EDISON ELECTRIC INSTITUTE
 ON CROSSINGS OF ELECTRICAL SUPPLY LINES AND FACILITIES OF STEAM AND ELECTRIFIED RAIL-
 ROADS, regardless of anything in the following descriptions which may be in conflict with such specifications, and
 further agrees, before attempting to effect the same, to execute, promptly upon submission, a contract, in form re-
 quired by the Railway Company to cover said crossing.

DESCRIPTION OF PROPOSED CROSSING

Proposed crossing to be located 1150 ft. ~~XXX~~ E / ~~XXX~~ S of M. P. 48
 between Harriman and Knoxville and will be ~~undergrade~~ ^{overgrade.}
 Angle between center line of main track and supply line crossing span to be 94 degrees.
 The line will approach the crossing from ~~XXX~~ N ~~XXX~~ W sides in a generally _____ direction
 at S 50° East degrees.
 Number of tracks to be crossed 1 Number of pole lines to be crossed 2
 Number of poles on right of way of Railway Company 0 Number of guys or anchors 0
 Distance from crossing poles or towers to center line of nearest main track N ~~or E~~ 50 W 57.5 ft.
S ~~or W~~ 50 W 32.5 ft.
 Distance from crossing poles or towers to center line of nearest side track N or E _____ ft.
S or W _____ ft.
 If proposed line will parallel the Railway right of way on either side of crossing, state approximate length of parallel:
 _____ ft. and separation between proposed line and Railway communication lines: _____ ft.
 Type of Supports { Poles. XXXXXX Poles have ¹ { Double } crossarms ~~XXXXXX~~ construction employing { Clevises }
~~XXXXXX~~ { Single } { Racks }
 If wood poles are used, give kind of timber Southern Pine Length of pole 50 ft.
 Circumference at top 23 in. Circumference six feet from butt 40 in.
 Depth of pole to be set in ground 7 ft. Show on drawing location of all guys and anchors.
 A. C. Voltage 13,200 No. phases 3 Operation { Delta }
~~XXXX~~
 Configuration to be shown on drawing

Cycles.....60..... No. wires.....4..... Is neutral ground employed in supply line? Yes.....

Will voltage be increased later? No..... If so, to what voltage.....

D. C. Voltage..... Amperes..... No. wires..... Configuration to be shown on drawing.

Size of wire.....336.4.....gauge { AWG }
 { BWS } Material of wire ACSR { Hard }
~~{ Solid }~~ { Bare } { Soft } drawn.
{ Stranded } { Insulated }

Insulators, Material Porcelain Type { 3 Pin-type
 Rigid Dead-end } Voltage Rating 15,000
 x Suspension

Height of lowest wire above top of rail minimum 35ft. Height of lowest crossarm of wire support above ground
43 ft.

Minimum vertical separation between nearest crossing wire and Railway communication wires 24 ft.

Railway signal wires 16 ft.

Length of crossing span 95 ft.

Length of spans adjacent to crossing span N. or E. 100 ft. S. or W. 118 ft.

Maximum sag in crossing span 0.75 ft. at 60 degrees Far.

Maximum stress in each gauge of wire: 336.4 gauge 2947 lbs. 3/0 gauge 2260 lbs.

lbs. gauge lbs. under applicable loading conditions.

Applicant will attach drawing showing layout of proposed crossing and details of construction.

Depth below base of rail.....ft. Size and character of duct.....

Number of ducts.....ft. Type of protection for ducts.....

Applicant to give full description of material to be used and method of installation.

Name of applicant seeking crossing Harriman Utility Board

Incorporated under the laws of the State of _____

Location of principal office Roane Street, Harriman State of Tennessee

If not incorporated, give names and addresses of principal owners: _____

 (Town) (State) Signed _____
 _____, 19____
 Application Approved: _____ Title _____
 _____ Superintendent _____ Superintendent Communications _____
 _____ Chief Engineer M. W. & S. _____ Signal and Electrical Superintendent _____