

July 13, 1976

Mr. Paul R. Rudder, Superintendent
Southern Railway System
Office of Superintendent
P. O. Box 1794
Knoxville, Tennessee 37901

Dear Mr. Rudder:

Re: Your L H - 65

In compliance with your letter of June 29, 1976, I have revised our drawing 60-S to reflect the 100 foot right-of-way and changed pole height to obtain a 31 foot minimum clearance over the rails.

I would like to obtain a copy of your clearance requirements for overhead crossings so that future applications will meet your criteria. Our copy of the National Electric Safety Code Book H43, section 232, table 1 indicated a 27 foot minimum clearance over the rails for a 0-750 volt line with less than 350 foot span.

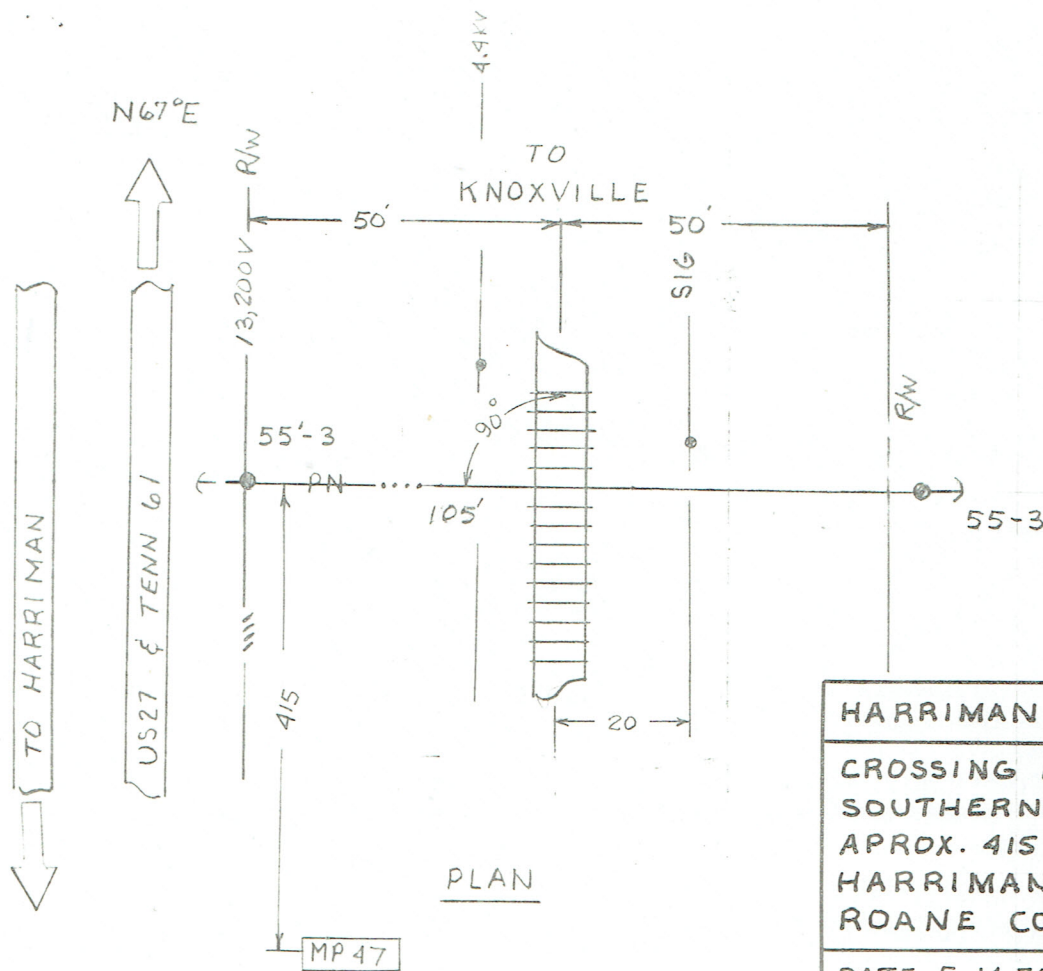
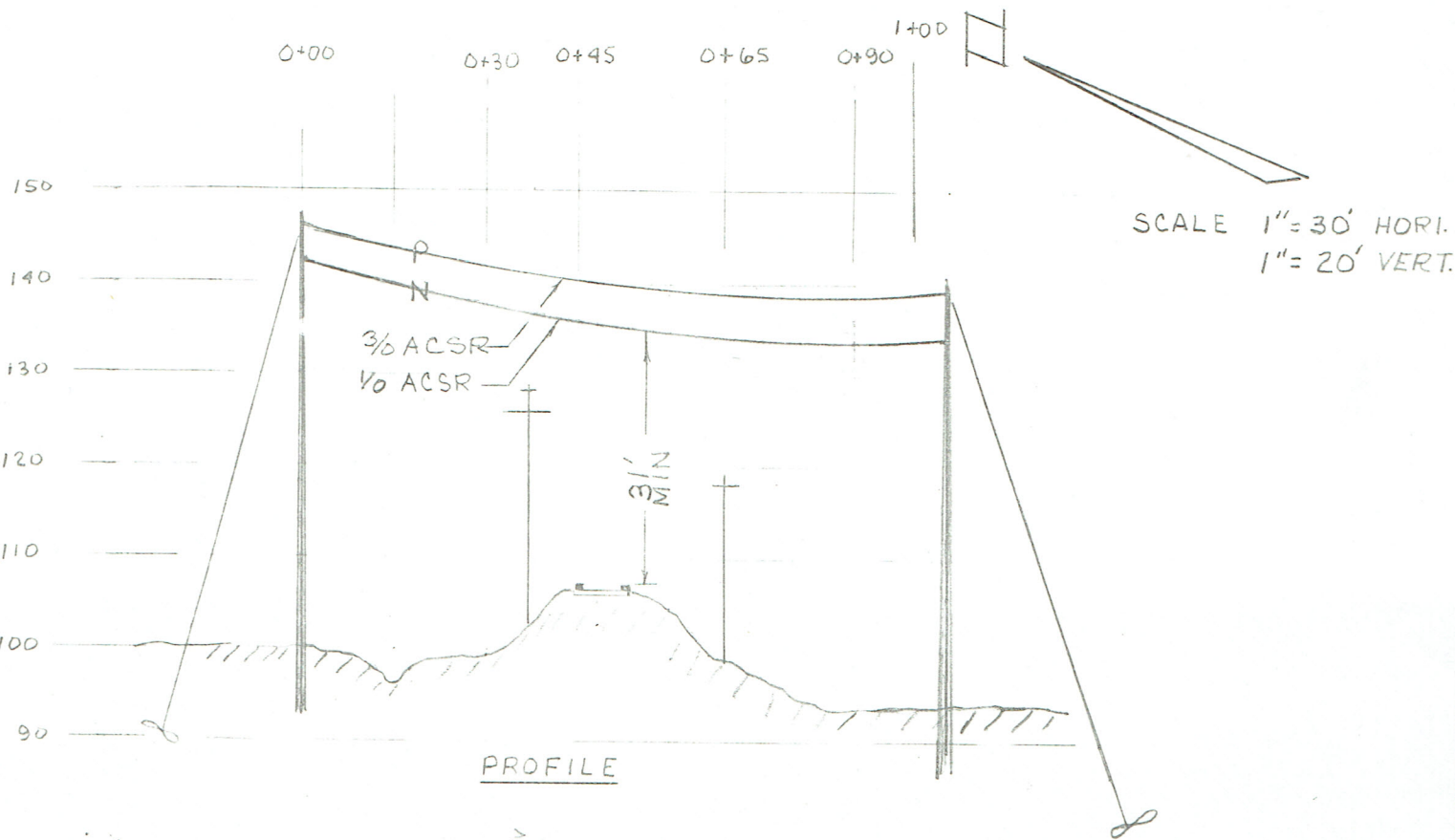
Attached are four prints of the revised drawing.

Very truly yours,

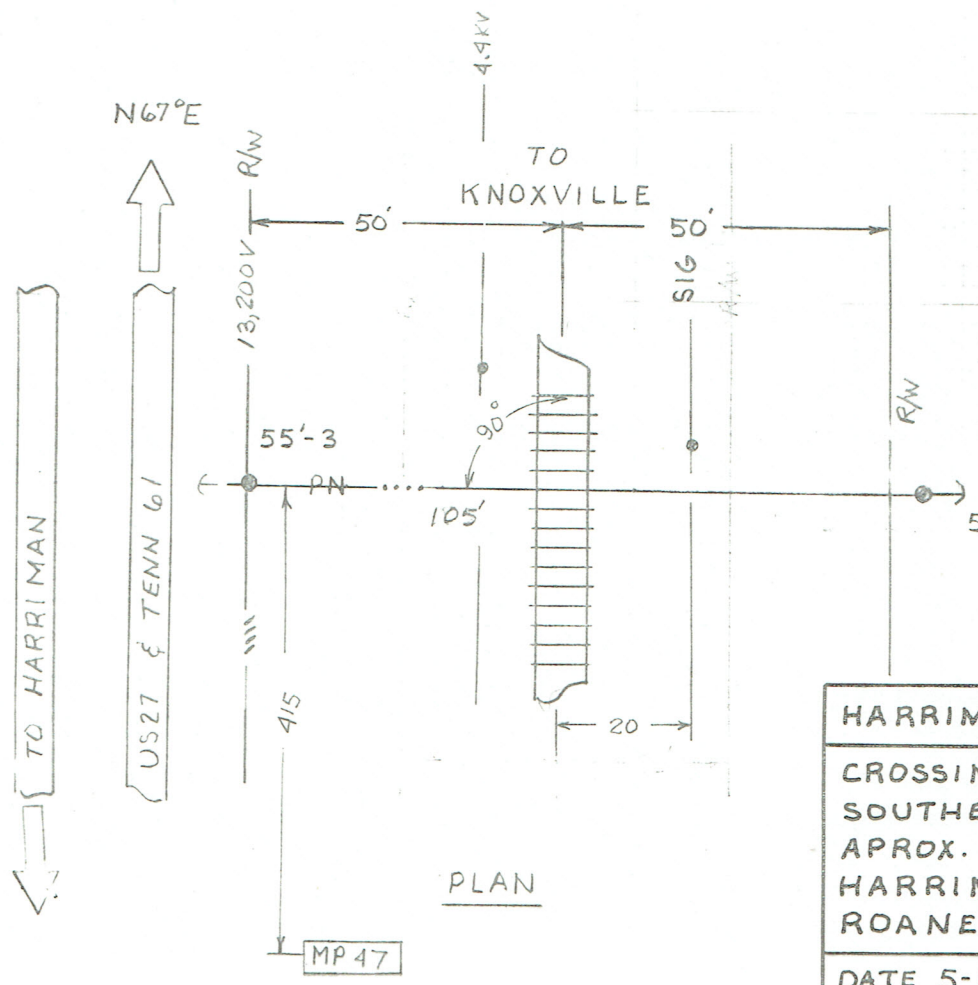
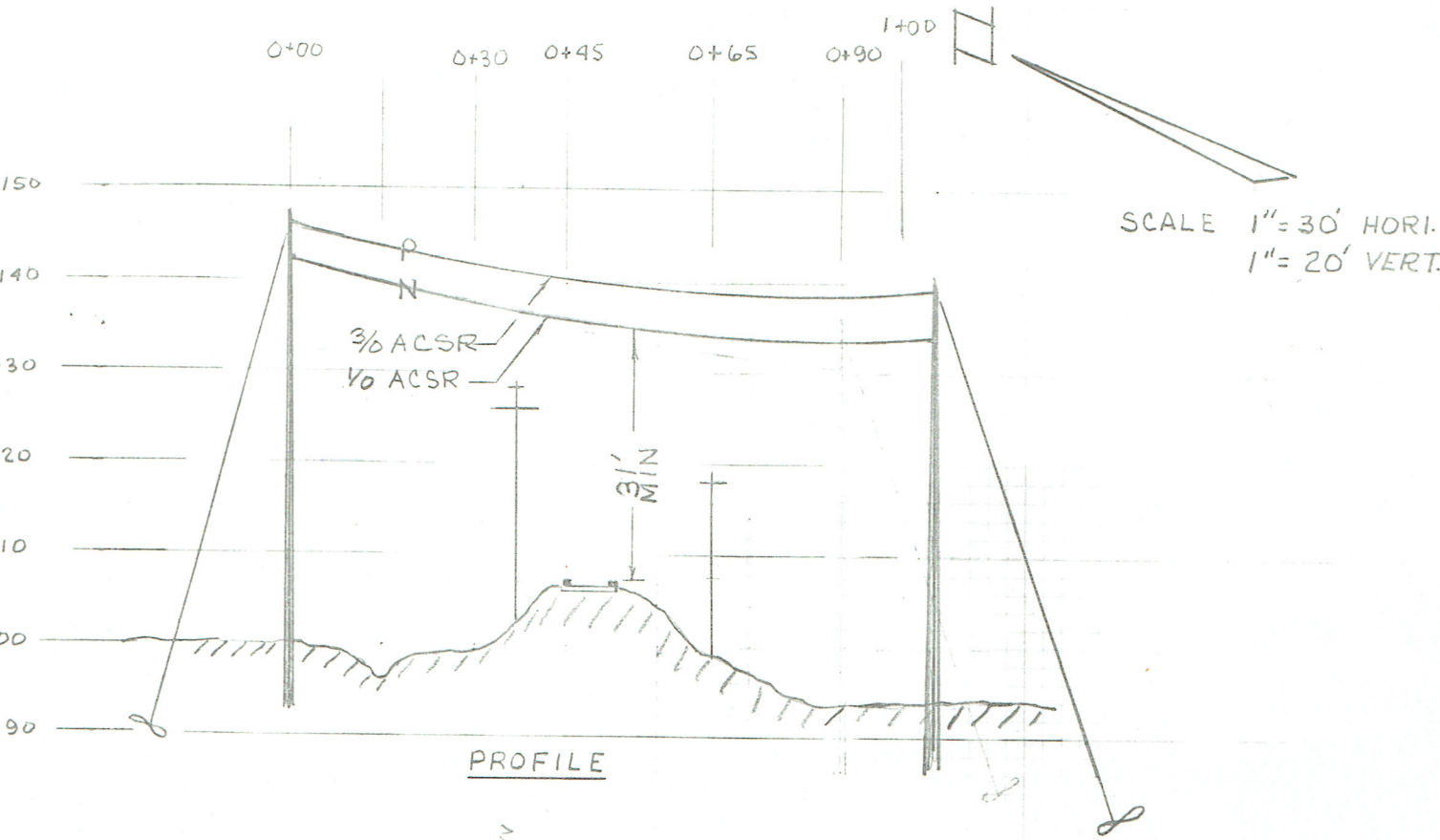
Richard A. Hall
ENGINEER

RAH:el

Encl



HARRIMAN UTILITY BOARD, TN.		
CROSSING PLAN & PROFILE SOUTHERN RAILWAY SYSTEM APPROX. 415' N.E. OF MP-47 HARRIMAN TO KNOXVILLE ROANE COUNTY, TENNESSEE		
DATE 5-14-76	RHALL	DWG. NO. 605



HARRIMAN UTILITY BOARD, TN.		
CROSSING PLAN & PROFILE SOUTHERN RAILWAY SYSTEM APROX. 415' N.E. OF MP-47 HARRIMAN TO KNOXVILLE ROANE COUNTY, TENNESSEE		
DATE 5-14-76	RHALL	DWG. NO. 60S

Southern Railway System

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

PAUL R. RUDDER
SUPERINTENDENT

June 29, 1976
LH-65

TELEPHONE
(615) 522-7225

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

Book 3 Pg 18

Mountain View

Dear Mr. Hall:

This has reference to your letter of May 17 making application for crossing for wire line over our tracks 415 feet northeast of Mile Post 47, Harriman, Tenn.

Our Engineering Department in Atlanta advises we require a minimum height of 31 feet for wire crossings of this voltage and also that width of our right-of-way is 100 feet each side centerline of track. Your specifications show only 50 feet right-of-way.

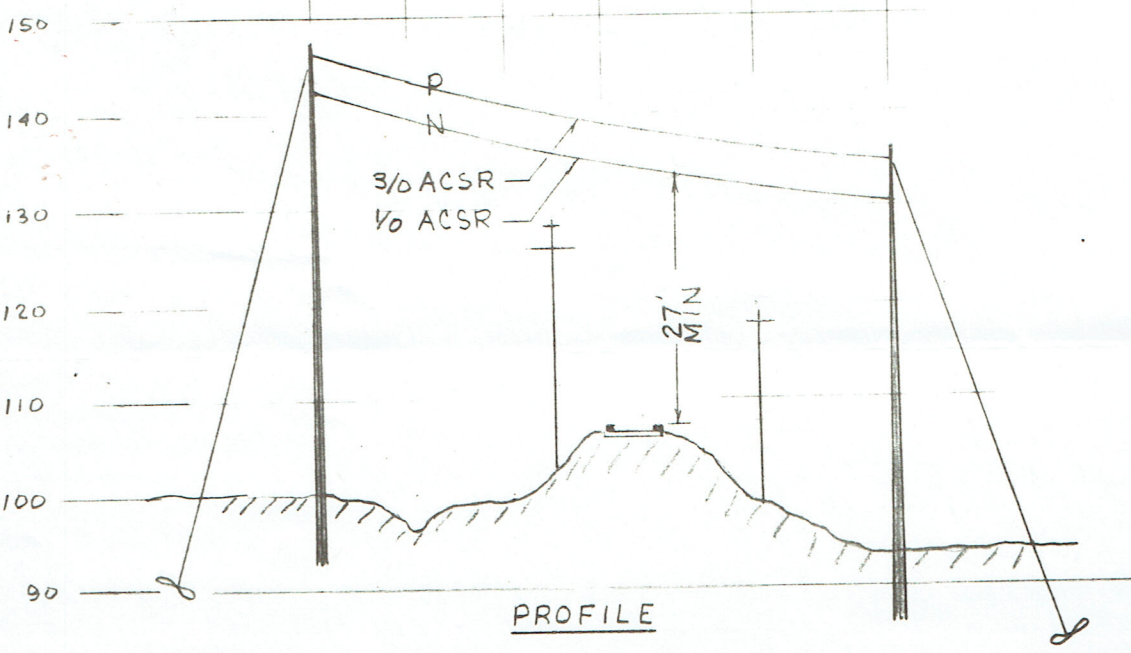
Will you please revise your drawings to show these revisions and we will handle for approval.

Yours truly,

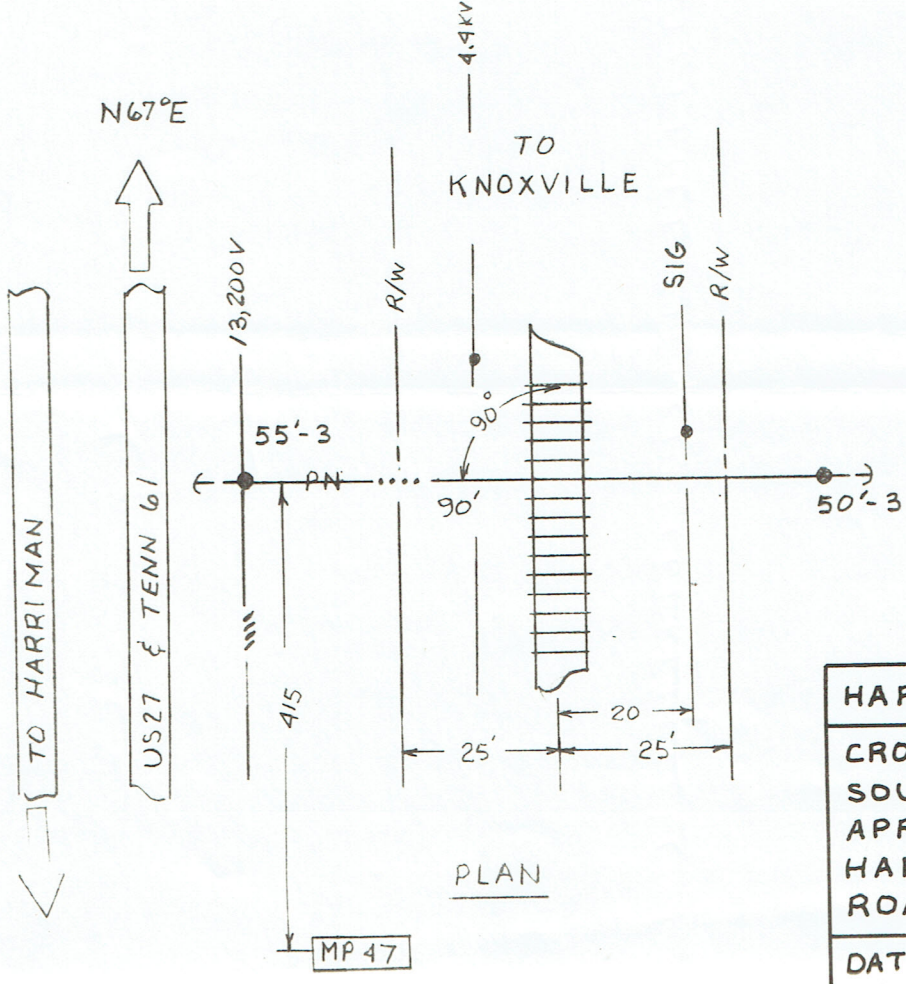
P. R. Rudder
Superintendent

Attachment

0+00 0+30 0+45 0+65 0+90



SCALE 1" = 30' HORI.
1" = 20' VERT.



HARRIMAN UTILITY BOARD, TN.		
CROSSING PLAN & PROFILE		
SOUTHERN RAILWAY SYSTEM		
APROX. 415' N.E. OF MP-47		
HARRIMAN TO KNOXVILLE		
ROANE COUNTY, TENNESSEE		
DATE 5-14-76	RHALL	DWG. NO. 60S

Southern Railway System

Transportation Department

S. Main Street

Pomerset, Kentucky 42501

E. K. RATLIFF
SUPERINTENDENT

December 3, 1976

TELEPHONE
(606) 678-5431

Mr. Jack Howard, Assistant Manager
Harriman Utility Board
P. O. Box 434
300 Roane Street
Harriman, Tennessee 37748

Browder Apt

Dear Mr. Howard:

Thank you for your letter of December 2, 1976 returning the signed copies of the agreement between The CNO&TP and the City of Harriman, Tennessee, acting by and through the Harriman Utility Board, concerning construction and maintenance of an 8 inch sewer pipe line crossing located 795 feet southwest of Milepost 260 and old TC Milepost N-163 and N-164, at Emory Gap, Tennessee. We also received your check in the amount of \$50.

The sewer crossing as shown on your drawing No.72-D dated November 2, 1976 now has our approval for construction. Prior to construction, it is mandatory that you contact the following Railway personnel:

Mr. H. J. Lewallen, Track Supervisor, Robbins, Tenn.,
telephone 615-627-2137, and

Mr. D. R. Myrick, Supervisor Communications & Signals,
Oakdale, Tennessee, telephone 615-369-3055

Please do not work on our right of way without our representative being present to safeguard the work.

Very truly yours,

E. K. Ratliff
E. K. Ratliff
SUPERINTENDENT

*Emory Gap
892-9372*

882

Stanley has been approved by Mr. G. B. Johnson Supt on 1/20/58. Chief of Dept copy. All keep the official files.

SOUTHERN RAILWAY SYSTEM

APPLICATION FOR WIRE CROSSING

ELECTRIC LIGHT, POWER SUPPLY AND TROLLEY LINES

To the Superintendent of Southern Railway Division:

The undersigned hereby makes application to cross the right of way of the Southern Railway

Company with a line of wires, as described below, forming a part of the applicant's line extending from T.V.A.

SUB to Oliver Springs Area 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 ENGINEERING COMMITTEE OF ASSOCIATION OF AMERICAN RAILROADS AND EDISON ELECTRIC INSTITUTE ON CROSSINGS OF ELECTRICAL SUPPLY LINES AND FACILITIES OF STEAM AND ELECTRIFIED RAILROADS, 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 required by the Railway Company to cover said crossing.

DESCRIPTION OF PROPOSED CROSSING

Proposed crossing to be located between M.P. 50 + 51 20 83' from M.P. 51 ft. ^{N or E} of M. P.

between and and will be ^{overgrade.} ~~undergrade.~~

Angle between center line of main track and supply line crossing span to be 89 degrees.

The line will approach the crossing from ^{N or E} sides in a generally North direction at N 33 E degrees.

Number of tracks to be crossed 3 Number of pole lines to be crossed 1

Number of poles on right of way of Railway Company 1 Number of guys or anchors 3

Distance from crossing poles or towers to center line of nearest main track ^{N.E.} 38.5 ft.

S or W ft. Distance from crossing poles or towers to center line of nearest side track ^{N.E.} 24.5 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. Towers. } Poles have { Double } ~~Single~~ crossarms or vertical construction employing { Clevises } ~~Racks~~ }

If wood poles are used, give kind of timber Southern Pine Length of pole 1-35' ft.

Circumference at top 21" in. Circumference six feet from butt 32.5" for 50' 35" for 35'

Depth of pole to be set in ground 6.5' for 50' ft. Show on drawing location of all guys and anchors.

A. C. Voltage 13200 No. phases 3 Operation { ~~Delta~~ } ~~Star~~ }

Configuration to be shown on drawing

(2)

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 7/0 gauge AWG Material of wire Copper Hard drawn. Sets
{ Solid } { Bare }
{ Stranded } { Insulated }

Insulators, Material Porcel 1A 1W Type Pin-type Voltage Rating 15 KV
{ Rigid Dead-end }
{ Suspension }

Height of lowest wire above top of rail 33' @ 60° ft. Height of lowest crossarm of wire support above ground 34 ft.

Minimum vertical separation between nearest crossing wire and Railway communication wires 17 ft.

Railway signal wires _____ ft.

Length of crossing span 104 ft.

Length of spans adjacent to crossing span N. or E. _____ ft. S.W. 187 ft. S. or W.

Maximum sag in crossing span 6" at 60 degrees Far.

Maximum stress in each gauge of wire: 3000 # gauge _____ lbs. _____ gauge _____

lbs. _____ gauge _____ lbs. under applicable loading conditions.

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

UNDERGRADE CROSSING

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 HARRIMAN State of TENNESSEE

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

CITY OF HARRIMAN, TENNESSEE

HARRIMAN, TENN Signed _____
(Town) (State)

Application Approved: _____, 19 _____ Title _____

Superintendent Superintendent Communications

Chief Engineer M. W. & S. Signal and Electrical Superintendent