

SOUTHERN RAILWAY SYSTEM

APPLICATION FOR WIRE CROSSING

ELECTRIC LIGHT, POWER SUPPLY AND TROLLEY LINES

To the Superintendent of Knowville Division:The undersigned hereby makes application to cross the right of way of the Southern Rail wayCompany with a line of wires, as described below, forming a part of the applicant's line extending from US 27to 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 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 1150 ft. ^{ N or E }
_{ S or W } of M. P. 48between Hammman and Knoxville and will be ^{ overgrade. }
_{ undergrade. }Angle between center line of main track and supply line crossing span to be 94° degrees.The line will approach the crossing from ^{ N or E }
_{ S or W } sides in a generally S 50° E direction at S 50° E degrees.Number of tracks to be crossed 1 Number of pole lines to be crossed 2Number of poles on right of way of Railway Company 0 Number of guys or anchors 0Distance from crossing poles or towers to center line of nearest main track N 50 W 57.5 ft.S 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. }
_{ 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 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 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 336.4 gauge { AWG } AWG Material of wire ACSR { Hard } drawn.
{ Solid } { Bare }
{ Stranded } { Insulated }
Insulators, Material porcelain Type { 3 } { 3 } Pin-type
Rigid Dead-end { Voltage Rating 15000
Suspension
Height of lowest wire above top of rail 35 ft. 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. 3/6 gauge 2260 lbs.
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 _____
Incorporated under the laws of the State of _____
Location of principal office _____ State of _____
If not incorporated, give names and addresses of principal owners: _____

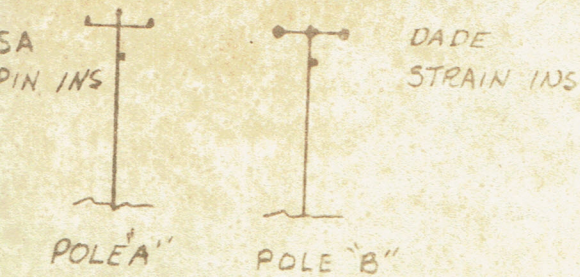
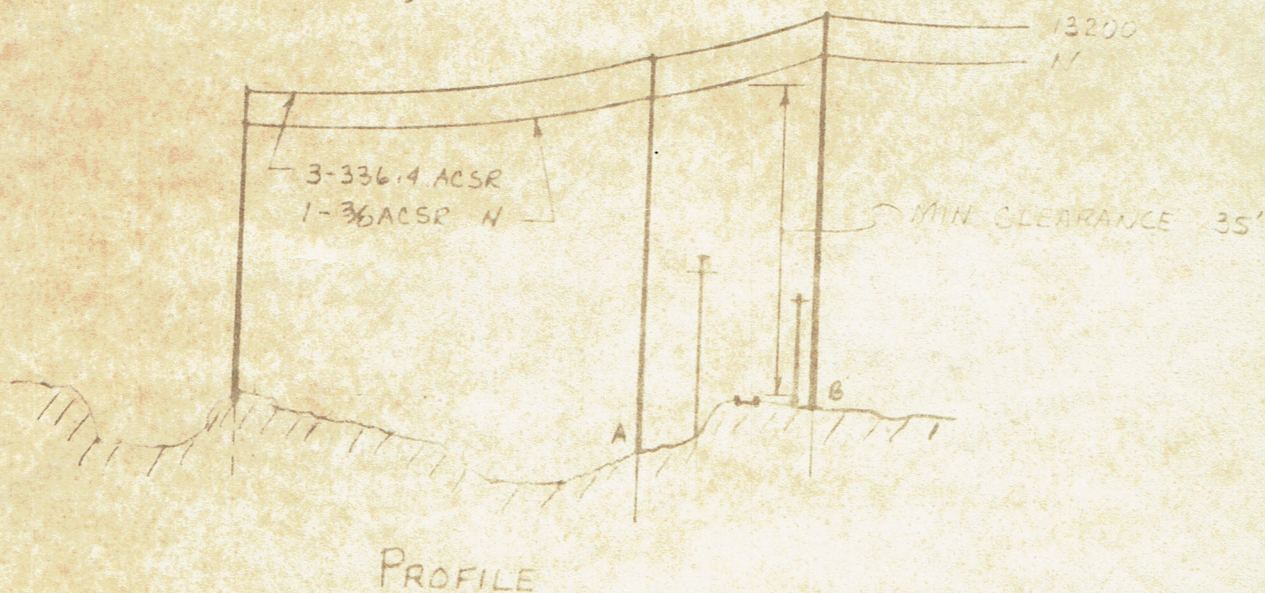
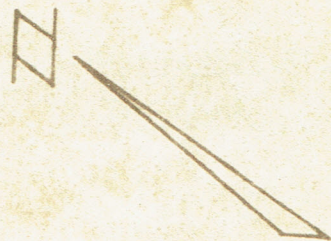
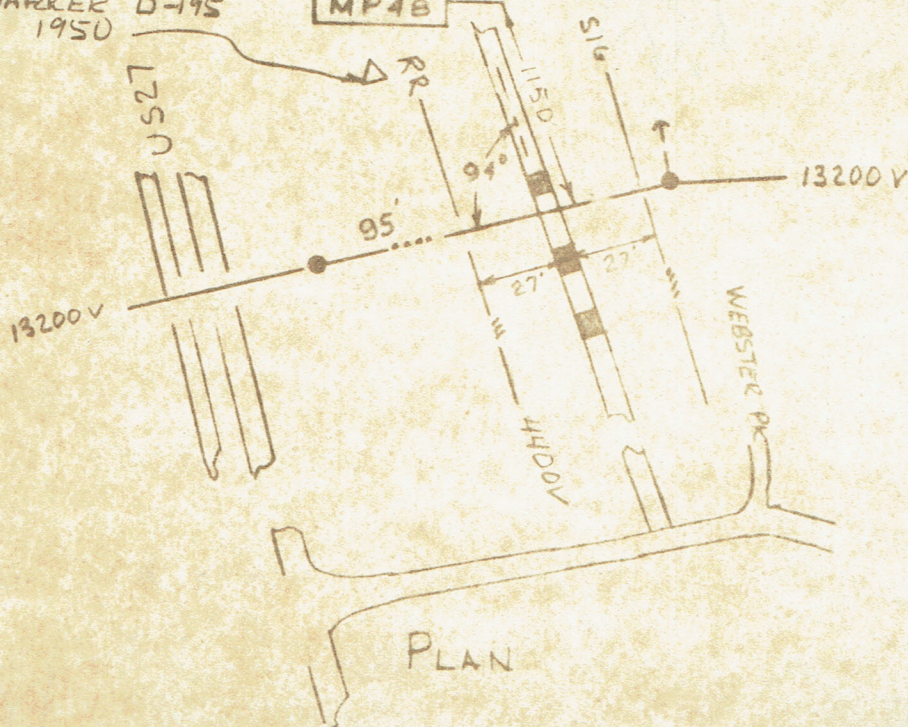
(Town) _____ (State) _____ Signed _____
Application Approved: _____, 19____ Title _____

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

TVA SURVEY
MARKER D-195
1950

TO KNOXVILLE

MP48



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.
DATE 8-24-55 DWG NO. 39-S