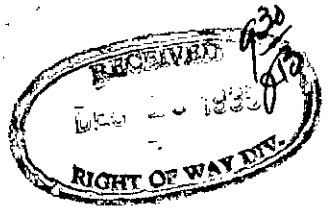
Form 4-a—1-24-35—6M



STATE OF MICHIGAN
Office of the Michigan Public Utilities Commission, } ss.

I, **Clarke W. Brown**, Secretary of the Michigan Public Utilities Commission

Do Hereby Certify, That I have compared the annexed copy of **Permit ED2-8-217**

with the original

recorded in **File No. ED2-8-217**

and that it is a true and correct transcript therefrom, and of the whole of such original.

In Testimony Whereof, I have hereunto set my hand and affixed the seal of the Commission, at Lansing, this **16th** day of **December** in the year of our Lord one thousand nine hundred **thirty-five.**

Clarke W. Brown

Secretary, Michigan Public Utilities Commission.

RECORDED RIGHT OF WAY NO. 33224
P83

Form 14

STATE OF MICHIGAN
BEFORE MICHIGAN PUBLIC UTILITIES COMMISSION

Standard Railroad Wire-Crossing Permit No. ED2-5-217

In Re Application of **Detroit Edison Company (Detroit)**

Pursuant to Act No. 171 of the Session Laws of 1893, as amended, application having been made to Michigan Public Utilities Commission by said

Detroit Edison Company

for permission to string wires across the tracks of the

Pere Marquette Railway Company

and said

Detroit Edison Company

having conformed to the Commission's rules governing the filing of notices and issuing of permits for the construction of electrical lines and said rail **road** company having waived the right of notice and hearing provided for in said act

THEREFORE, It is ordered that said

Detroit Edison Company

be permitted to string the following described wires across the tracks of said railroad at the following described place:

In Wheatfield Township, Ingham County, Michigan: - - In Zimmer Road 1½ miles west of of Williamston in NE ¼ of Section 3, T-4-N, R-1-E, with 2 - #2 A.C.S.R. wires, 4500 volts

as indicated on the attached plans, when, as and if approved.

At the point of crossing said wires shall be constructed in accordance with this Commission's rules and regulations.

RECORDED RIGHT OF WAY NO. 33222 1935

Given under our hands and the Official Seal of this Commission at the City of Lansing, State of Michigan, this **16th** day of A. D. 19 **December 35**

MICHIGAN PUBLIC UTILITIES COMMISSION
By

William M. Smith
Chairman,

Emerson R. Boyles
Commissioner,

Ivan E. Hull
Commissioner,

Paul W. Voorhies
Commissioner,

Harold J. Waples
Commissioner.

Countersigned

Clarke W. Brown
Secretary.

EDZ-8-217

DATA SHEET TO ACCOMPANY DRAWING RX-1550

Name of Company
The Detroit Edison Company.

Name and Location of Crossing
Over the Pere Marquette R.R. in Zimmer Road and 1½ miles west of Williamston, N.W. ¼ of Section 3, Wheatfield Township, Township 4 north, Range 1 east, Ingham County, Michigan.

Circuits
Proposed one 4800 volt, 60 cycle, single phase, distribution circuit.

Poles
Pole(A) 35' Southern Pine, 15" top circumference, 25½" butt circumference at ground line, set 6' in clay soil.
Poles(B)(C) 40' Southern Pine, 23" top circumference, 37" butt circumference at ground line, set 6' in clay soil.

Guys
One 6M Guy from Pole(B) 32' above ground to Anchor(M) 15' from butt of Pole(B).
One 6M Guy from Pole(C) 32' above ground to Anchor(N) 25' from butt of Pole(C).
All guy wire double galvanized, stranded steel.

Cross Arms
Proposed one 3¼"x 4¼"x 96" Douglas Fir, double cross arm per crossing pole.

Conductors
Proposed two #2 A.C.S.R. wires.

12-12-35

RECORDED RIGHT OF WAY NO. 33202 P85

THE DETROIT EDISON COMPANY

STANDARD SPECIFICATIONS FOR OVERHEAD LINE CONSTRUCTION
AT RAILROAD CROSSINGS

OCTOBER 28, 1935

Guy Clamps

Serve 5/16", 3/8", 1/2" and 6M guys at pole end.
One 3-bolt clamp at anchor end on 5/16" and 3/8" guys.
Two 7/16" U-bolt clamps at anchor end of 1/2" and both ends of 10M guys.
Two 3-bolt clamps at both ends of 5/16" copperweld guys.

Guy Insulators

O.B. #26500 (or equivalent) in 5/16", 3/8" and 6M guys.
O.B. #25009 (or equivalent) in 1/2", 10M, and 5/16" copperweld guys.
Two insulators per guy for 24,000-volt circuits, and one per guy for distribution circuits.

Guy Anchors

On 5/16", 3/8" and 6M guys - 8" cone anchor set 5-1/2' deep.
On 10M, 1/2" steel, and 5/16" copperweld guys - 8" expanding anchor set 7-1/2' deep.
On 16M guy, one concrete anchor (8 cu ft concrete) 6-1/2' deep.

Anchor Rods

On 5/16", 3/8" and 6M guys - 5/8" x 6' round galvanized steel.
On 1/2", 5/16" copperweld, 10M, 16M - 3/4" x 8' round galvanized steel.

Cross-Arm Attachments

Center bolts and spacer bolts - 5/8" galvanized steel.
Spacer blocks - 4" x 4" treated pine.
Braces - 1" x 2-1/2" x 30" treated yellow pine for 24,000-volt circuits.
Braces - 1/4" x 1-1/4" x 28" galvanized steel for all other circuits.
Brace bolts - 3/8" galvanized steel bolts at arm and 1/2" x 5" lag screws at pole.

Pins

Locust 1-3/4" x 13-3/4" x 1-3/8" on arms and 3-3/4" x 3-3/4" x 17" pole top for 24,000-volt circuits.
Locust 1-1/2" x 9" x 1" on 3-1/4" x 4-1/4" arms, and 1-3/4" x 10" x 1" on 3-3/4" x 4-3/4" arms, for all other circuits.

Insulators

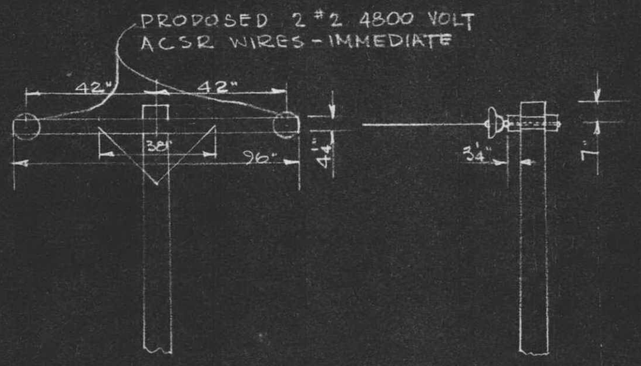
24-kv circuits - one O.B. #11623 (or equivalent) porcelain pin type and six Thomas #1162 (or equivalent) disk type for dead-end construction, or two O.B. #11623 (or equivalent) for double pin construction.
4800-volt, series lighting, and private telephone circuits - two O.B. #12847 (or equivalent) pin type per wire.
120-240-volt circuits - two Hemingray #20 (or equivalent) glass pin type per wire.

Note:

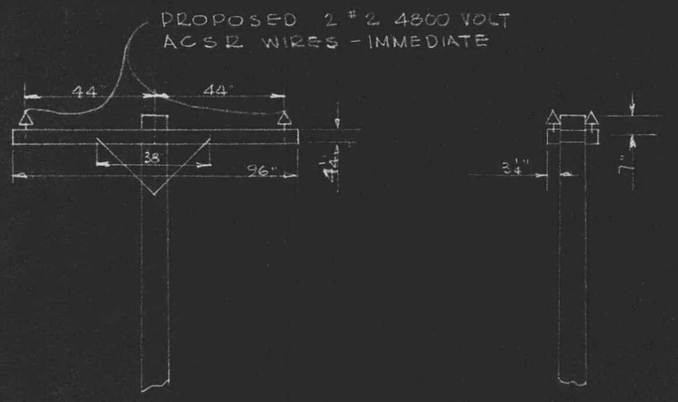
For strain type construction - on 4800-volt and series lighting circuits, two Lapp #6810 (or equivalent) strain insulators and one O.B. #12847 (or equivalent).
On 120-240-volt circuits - two O.B. #25009 (or equivalent) strain and one Hemingray #20 (or equivalent) glass pin type.
Where rack-type construction is used on 120-240-volt circuits, racks shall be capable of withstanding a minimum longitudinal load of 1400 pounds per insulator position with a mechanical safety factor of two.
For wire tensions greater than 1400 pounds on 120-240-volt circuits - one Joslyn J 0342 dead-end spool (or equivalent) per wire.

Ties

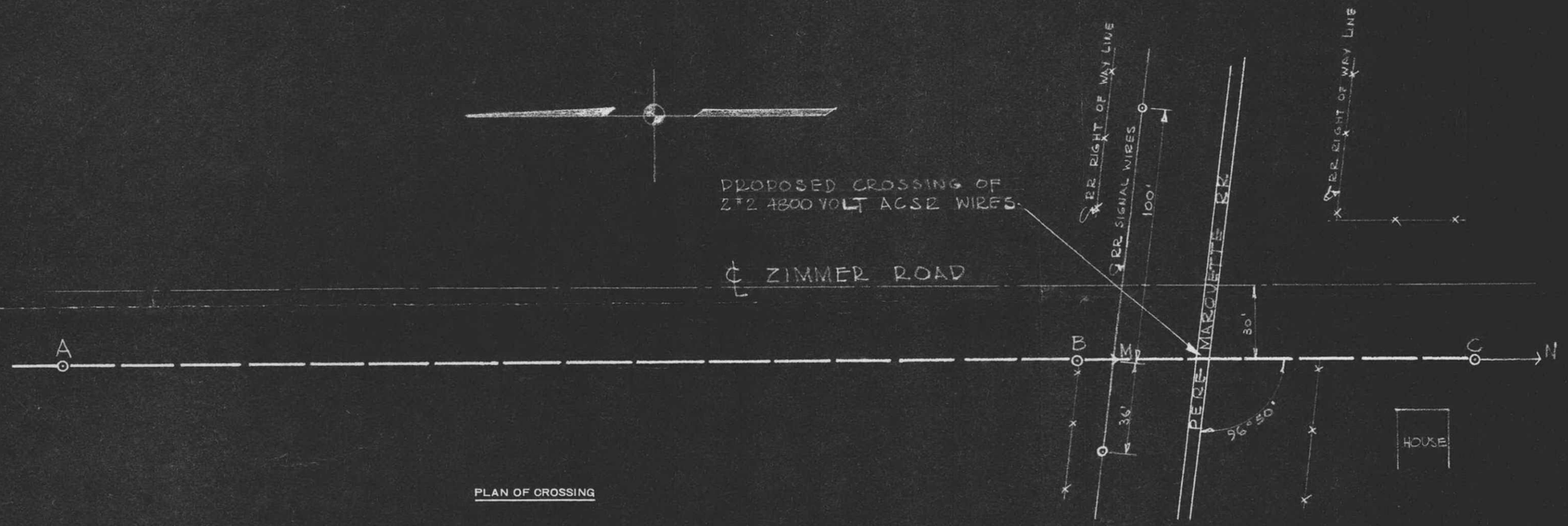
Standard top groove dead-end tie on 24,000-volt, 4800-volt series lighting and private telephone circuits.
Standard side groove dead-end tie on 120-240-volt circuits.
Tie wire - #8 soft bare copper on 24,000-volt, and bare telephone wires. Number 6 or #8 soft solid weatherproof copper for all conductors having weatherproof covering.
Aluminum armour rods and #10 galvanized iron tie wire for A.C.S.R. conductors.
Standard dead-end ties or clamps on other than pin-type construction.



POLE C LOOKING SOUTH LOOKING EAST



POLE B LOOKING NORTH LOOKING EAST



PLAN OF CROSSING

ELEVATION OF CROSSING LOOKING EAST

PURPOSE OF LINE

EXTENSION OF RURAL DISTRIBUTION

CITY 1½ MILES WEST OF WILLIAMSTON
COUNTY INGHAM
TOWNSHIP WHEATFIELD
SURVEY NO. OF TWP. 4 NORTH
RANGE NO. 1 EAST
SECTION NO. NW¼ SEC. 3

RECORDED ROW FILE #
R33222P85

APPROVED
FOR
MICHIGAN PUBLIC UTILITIES
COMMISSION
Ray R. Holland
CHIEF ENGINEER
FILE F-II 2-8-217 DATE DEC 16 1935

THE DETROIT EDISON COMPANY
PLAN SUBMITTED TO MICHIGAN
PUBLIC UTILITIES COMMISSION
FOR 4800 VOLT CROSSING
OVER PERE MARQUETTE RR
DRAWN BY RBL DATE 12-11-35
CHECKED BY JW DATE 12-11-35

Davies - Northville

DRAFTING & SURVEYING BUREAU RX # 1550

DEC 12 1935

RECORDED RIGHT OF WAY NO. 33333 P85