Form 4a-5-10-26—10M

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

I, J. Carl Sheil, Secretary of the Michigan Public Utilities Commission,

Do Hereby Certify, That I have compared the annexed copy of Permit No. U-3772

with the original permit

~~recorded in~~

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 22nd day of June in the year of our Lord one thousand nine hundred twenty-seven

J. Carl Sheil

Secretary, Michigan Public Utilities Commission.

MEW

RECORDED RIGHT OF WAY NO. 39636 P96

Form 14B—1-10-24—12,500

STATE OF MICHIGAN

BEFORE MICHIGAN PUBLIC UTILITIES COMMISSION

Standard Railroad Wire-Crossing Permit No. U-3778

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 Grand Trunk Railway System

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 way 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 Milford Township, Oakland County, Michigan:- } In Milford Road, 1300 ft. East of mile-post 54, Section 35, with:

3 - #6 copper wires, 4000 volts, 3-phase;
2 - #6 " " , 4000 volts, single phase.

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.

Given under our hands and the Official Seal of this Commission at the City of Lansing, State of Michigan, this 22nd day of June A. D. 19 27.

MICHIGAN PUBLIC UTILITIES COMMISSION
By

SAMUEL ODELL
Chairman,

SIDNEY E. DOYLE
Commissioner,

JAMES BICE
Commissioner,

BYRON P. HICKS
Commissioner,

ROBERT H. DUNN
Commissioner.

COUNTERSIGNED BY:

J. CARL SHEIL
Secretary

MEW

RECORDED RIGHT OF WAY NO. 34636 p96

DATA SHEET TO ACCOMPANY
DRAWING #RX-599

Name of Company
The Detroit Edison Company.

Name and Location of Crossing
Over the G.T.R. (M.A.L.Div.), spur Milford Rd., approximately 1300' East of the Mile Post #54, and 225' north of the main line tracks, S.W.¼ Sec.35, Twp. 2 North, Range 7 East, Milford Twp., Oakland County, Michigan.

Circuits
Proposed one 4,800 volt, 60 cycle, 3 wire, 3 phase, distribution circuit.
Proposed one 4,800 volt, 60 cycle, 2 wire, single phase, distribution circuit.
Existing one 24,000 volt, 60 cycle, 3 wire, 3 phase, transmission circuit.

Poles
Pole (A) 50' Idaho Cedar, 28" top circumference, 60" butt circumference at ground line set 7' in clay soil.
Pole (B) 50' Idaho Cedar, 28" top circumference, 63" butt circumference at ground line set 7' in clay soil.
Pole (C) 50' Idaho Cedar, 28" top circumference, 47" butt circumference at ground line set 7' in clay soil.
Pole (D) 50' Idaho Cedar, 28" top circumference, 43" butt circumference at ground line set 7' in clay soil.
Pole (E) 50' Idaho Cedar, 28" top circumference, 47" butt circumference at ground line set 7' in clay soil.
Pole (F) 50' Idaho Cedar, 28" top circumference, 55" butt circumference at ground line set 7' in clay soil.
Poles (H)&(J) 35' Michigan Cedar, 22" top circumference, 38" butt circumference at ground line set 6' in clay soil.
Poles (I)&(G) 40' Idaho Cedar, 28" top circumference, 43" butt circumference at ground line set 6' in clay soil.

Guys and Guy Attachments
Two 3/8" Guys from pole (B) 40'&35' above ground to anchors (M)&(L) 35' & 34' from butt of pole (B).
One 3/8" Guy from pole (A) 41' above ground to anchor (K) 35' from butt of pole (A).
One 3/8" Guy from pole (E) 38' above ground to anchor (N) 45' from butt of pole (E).
Two 3/8" Guys from pole (F) 40' above ground to anchors (P)&(R) 35' & 25' from butt of pole (F).
One 3/8" Guy from pole (I) 32' above ground to anchor (S) 15' from butt of pole (I).
One 5/16" Guy from pole (C) 32' above ground to anchor (T) 15' from butt of pole (C).
One 3/8" Guy from pole (G) 32' above ground to anchor (W) 15' from butt of pole (G).
All guy wire double galvanized stranded steel with a minimum ultimate strength of 55,000 pounds per square inch.

DATA SHEET TO ACCOMPANY
DRAWING #RX-599

Cross Arms

Proposed two 3¼" x 4½" x 96" Douglas fir double cross arms on crossing poles (B)&(C).
Existing one 3¼" x 4½" x 96" Douglas fir double cross arm on crossing poles (B)&(C).
Proposed two 3¼" x 4½" x 96" Douglas fir double buck arms on crossing pole (C).
Existing one 3¼" x 4½" x 96" Douglas fir double cross arm on pole (G).

Conductors

Proposed 5 #6 Medium hard drawn, solid, T.B.&.P. copper wires.
Existing 3 #0 Medium hard drawn, stranded, bare copper wires.

DATA SHEET TO ACCOMPANY
RAILROAD CROSSING DRAWINGS

Guy Clamps

One 1 5/8" x 6" three bolts galvanized steel clamp at each end, for 3/8" and 5/16" guys.
Two 1/2" Crosby guy clamps at each end, for 1/2" guys.

Guy Insulators

Two O.B.#26500 - 3½" porcelain interlocking strain type insulators on 3/8" and 5/16" guys for 24,000 volt circuits and one per guy for lower voltages.
Two O.B.#25009 - 4" porcelain interlocking strain type insulators on 1/2" guys for 24,000 volt circuits and one per guy for lower voltages.

Guy Anchors

Four Blade "Everstick"-on 1/2" Guys buried 7' deep.
8" Cone on 3/8" and 5/16" guys buried 6' deep.

Anchor Rods

3/4" x 8' round galvanized steel rods on "Everstick" Anchors.
5/8" x 6' round galvanized steel rods on 8" Cone anchors.

Cross Arm Attachments

5/8" Galvanized steel center bolts.
5/8" Galvanized steel spacer bolts.
4" x 4" treated pine space blocks.
1/4" x 1½" x 28" flat galvanized steel braces.
3/8" galvanized steel bolts at arm end of braces.
1/2" x 5" galvanized steel lag screws at pole end of braces.

Pins

1½" x 14" x 1 3/8" locust pins for 24,000 volt circuits.
1¼" x 10-1/8"x 1" locust pins for all other circuits.

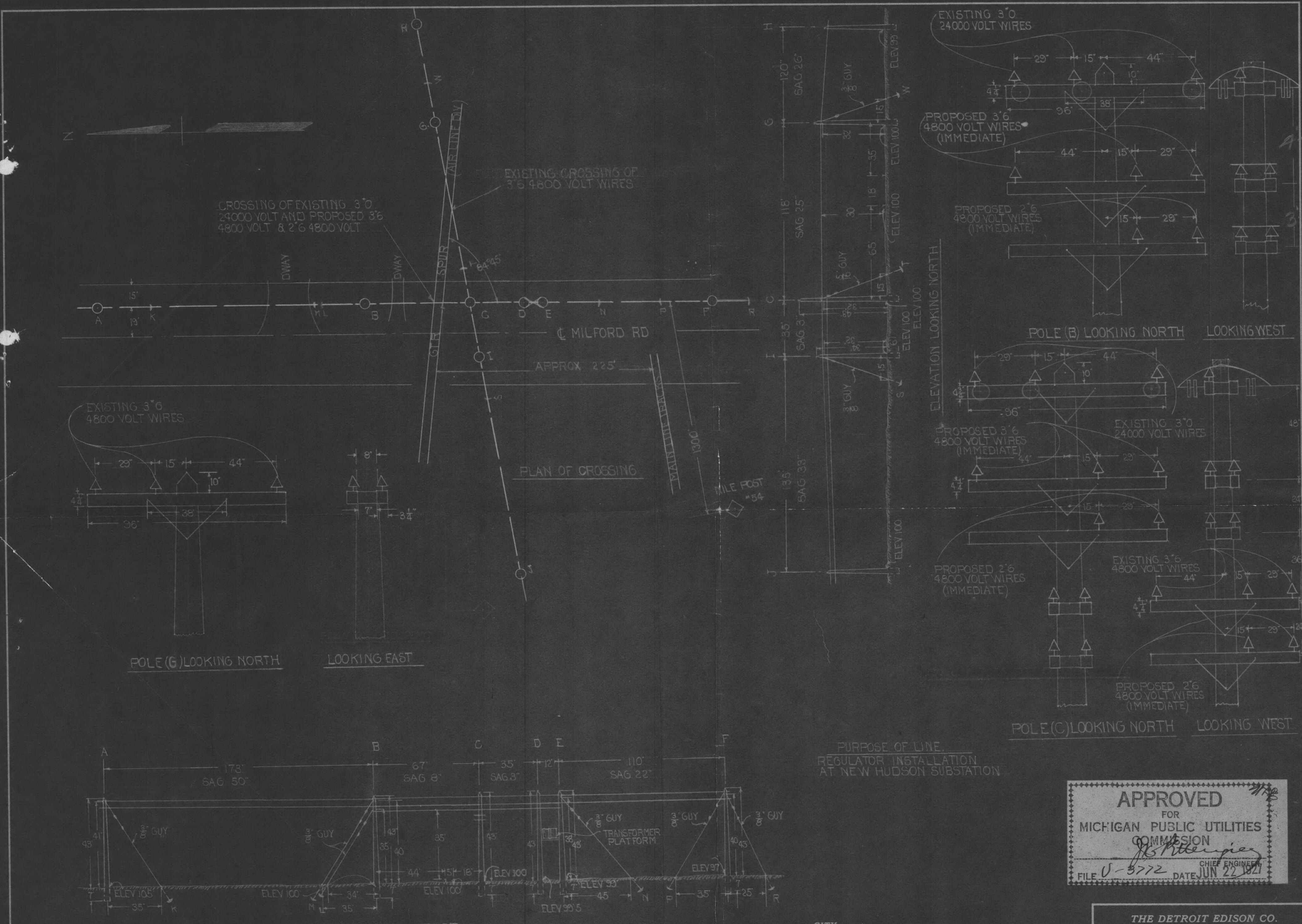
Insulators

One O.B.#11623 pin type and four Locke #8049 disc type insulators per wire, per crossing pole on 24,000 volt circuits. (One O.B.#11623 and two Locke #8049 for dead ends).
Two O.B.#12847 porcelain pin type insulators per wire, per crossing pole for 4,800 volt, 2,400 volt, series lighting, and private telephone circuits.
Two #20 Hemingray glass insulators per wire, per crossing pole for 120/240 volt secondary circuits.
One O.B.#12847 pin type and two Colonial #11940 disc type insulators per wire for #0000 primary circuits and one #20 Hemingray glass pin type and two #25009 strain type insulators per wire for #0000 secondary circuits, per crossing pole.

Ties

Standard top groove tie on 24,000 volt, 4,800 volt, 2,400 volt, series lighting and private telephone circuits.
Standard side groove tie on 120/240 volt secondary circuits.
#8 soft, solid, bare, copper tie wire for 24,000 volt circuits.
#6 soft, solid, weatherproof, copper tie wire on all other circuits.

Checked by D. Burns


EXISTING CROSSING OF 3'6 4800 VOLT WIRES
CROSSING OF EXISTING 3'0 24000 VOLT AND PROPOSED 3'6 4800 VOLT & 2'6 4800 VOLT
AIR LINE DIV.
SPUR
G.T.R.
DWAY
℄ MILFORD RD
APPROX 225'
MAIN LINE TRACKS
1300'
MILE POST #54
PLAN OF CROSSING
EXISTING 3'6 4800 VOLT WIRES
POLE (G) LOOKING NORTH
LOOKING EAST
ELEVATION LOOKING NORTH
EXISTING 3'0 24000 VOLT WIRES
PROPOSED 3'6 4800 VOLT WIRES (IMMEDIATE)
PROPOSED 2'6 4800 VOLT WIRES (IMMEDIATE)
POLE (B) LOOKING NORTH
LOOKING WEST
EXISTING 3'6 4800 VOLT WIRES
POLE (C) LOOKING NORTH
LOOKING WEST
TRANSFORMER PLATFORM
3/8" GUY
ELEVATION OF CROSSING LOOKING EAST
PURPOSE OF LINE.
REGULATOR INSTALLATION AT NEW HUDSON SUBSTATION

APPROVED
FOR
MICHIGAN PUBLIC UTILITIES COMMISSION

CHIEF ENGINEER
FILE U-3772 DATE JUN 22 1927

CITY
COUNTY OAKLAND
TOWNSHIP MILFORD
SURVEY NO. OF TWP. 2 NORTH
RANGE NO. 7 EAST
SECTION NO. SW 1/4 SEC 35

THE DETROIT EDISON CO.
PLAN SUBMITTED TO MICH. PUBLIC UTILITIES COMMISSION
FOR 4800 VOLT CROSSING
OVER G.T.R. (SPUR)
DRAWN BY E.E.H. DATE 6-20-27
CHECKED BY D.B. DATE 6-20-27

DRAFTING & SURVEYING BUREAU RX # 589

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p96

U-3772

Blanket
Waiver