



Railroad Crossing Application - Overhead

Please Print

Railroad Name THE GRAND TRUNK WESTERN RR			Department Order B-5877B		
Revision From RX No. (Available From Record Center (Ext. 78498))		New RX No. or R/W No. 4621		Spans	
Location: City/Township ROCHESTER HILLS		Town T-2N	Range R-10E	County DAKLAND	1/4 Section SW 1/4
Section 30					
Location Description NORTH END OF AVALON-850' N OF AUBURN & 500' E OF ADAMS					

This Crossing:

Is within the public road right-of-way or Is on railroad property Provides service to the railroad (If yes, check box)

Crossing Data

Detailed On Attached Drawing

Railroad Mile Post (Number) 31				State Permit No. Existing				Date 4-3-89				Distance to Crossing from Mile Post (in feet) 215 Ft.			
Existing								Proposed							
Type of Structure <input checked="" type="checkbox"/> Wood <input type="checkbox"/> Steel				Type of Structure <input checked="" type="checkbox"/> Wood <input type="checkbox"/> Steel											
Conductors				Poles				Conductors				Poles			
Span.	No.	Size	Kind	Voltage	Location	Length	Class	Span.	No.	Size	Kind	Voltage	Location	Length	Class
					A	40'	4	F-G	1-DANA	B	SHIELD		B	80	1
					C	40'	2		3-954	B	120KV		G	80	1
					D	40'	2								
					E	40'	2	G-B	1-DANA	B	SHIELD				
					F	80'	1		3-954	B	120KV				
									B-C	1-954	B	120KV			
									B-D	1-954	B	120KV			
									B-E	1-954	B	120KV			

Summary of Line Changes (continue on separate sheet if necessary)

THIS RX SUPERCEDES RX 4515 SUBMITTED BY POWER SYS. REQUIRING A NEW TOWER #316 A

RECEIVED
APR 12 1989

Clearances		Height
Tolerance	Clearances	
Nearest 0.1 foot with lowest conductor or wire at 60° final sag. (If different indicate on drawing)	From Top of Rail to Nearest wire	42 Ft.
	Railroad Communication or Signal Lines	15 Ft.

* Materials shall be as noted in the current revision of Detroit Edison's General Specifications for Overhead Line Construction at Railroad Crossings.

Actual field dimension may vary from those indicated. However, the clearances shall be in compliance with the current revisions of Order Nos. 1679 and 1868 of Michigan Public Service Commission.

Designed By G. GIBSON	Date 4-3-89	Checked By	Date
Company Location 240 OD HQ	Phone No. 767-4137		

9084
0531

Detroit Edison

To: Records Center

December 16, 1987

From: Brenda L. Golson

Real Estate and Rights of Way ~~Department~~

Subject: Grand Trunk Western Railroad company, RX 4515, BO 3680
 Crossing of the Bloomfield-Spokane 120 kV Transmission Line over the
 GTWRR, Located 55' E of Adams Road & 800' N of Auburn Road, SW 1/4 of
 Section 30, Avon Township, Oakland County, Michigan

The attached papers are for records center storage. Information about the completed transaction is shown in the following summary.

Permit 534

R.R. 1	R.R. INVOICE NO. M.P.S.C. NO. OR R.E. & RW NO. 9	Update Type 10	D.E.C.O. RECORDS CENTER FILE NO. 15	R.X. NO. OR MAP NO. 20	Facility 21	Agreement Date 27
07	L3000052	1		4515	4	102087

Payment Frequency 24	Rental 27 33	OH-UG Code 34	Division 35	County 36	City or Township 38	Section 46
A	75	1	4	08	AVON	30

Location									
47	30-55' E ADAMS & 800' N AUBURN								50

Update Type Codes
 1 = New Agreement
 2 = Revised Agreement
 3 = Terminated Agreement

~~The Accounts Payable Department is requesting all bills be paid by the date shown on the invoice.~~

Approved Thomas Wilson
 Thomas Wilson, Real Estate Associate

- cc: Accounts Payable
- Service Planning
- System Engineering C. Van Paris
- Transmission & Distribution

RECORDED RIGHT OF WAY NO. 376361283

9064 P531

DATA SHEET TO ACCOMPANY DRAWING RX-4515
(This is a new crossing)

Name of Company:

The Detroit Edison Company

Name and Location of Crossing:

Crossing of the Bloomfield-Spokane 120 kV transmission line over the Grand Trunk Western Railroad. Located 55 feet east of Adams Road and 800 feet north of Auburn Road, southwest 1/4 of Section 30, Avon Township, Oakland County, Michigan.

Circuits:

One three wire, 120,000 volt, 60-cycle, 3-phase transmission circuit with one ground wire.

Towers and Crossarms:

See attached drawing T-8412 (AB).

Poles:

Detail 2116A, 90 foot wood pole.

Conductors:

3-954 MCM 54/7 ACSR and one OAWA ground wire.

Insulators:

Deadend: 9 Suspensions.
Insulators: 5-3/4" x 10".

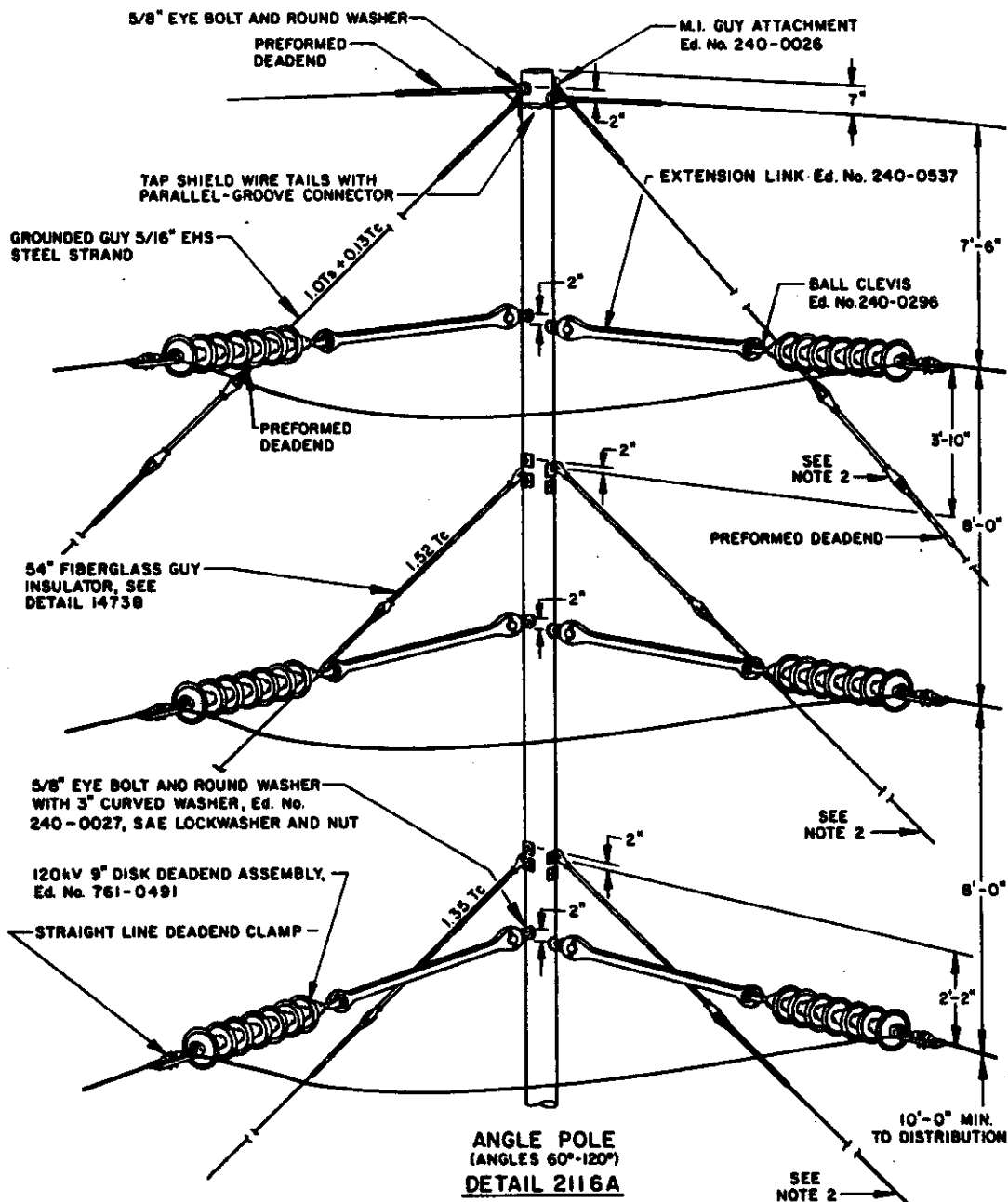
Guy and Guy Attachments:

Shown on Detail 2116A.

Suspension and Deadend Details:

See attached drawing ED1-7430.

21-120kV SUBTRANSMISSION



NOTES:

- 1. PROPER SAFETY FACTORS MUST BE APPLIED TO THE GUY CONSTANTS SHOWN.
- 2. INSTALL 24" FRP GUY INSULATOR Ed. No. 761-0517 REFER TO DETAIL 14300.
- 3. GUYING CONSTANTS ARE TO BE USED FOR SAG TABLE I ONLY.
- 4. WHEN USING SAG TABLE II, GUYS ARE REQUIRED BEHIND EACH CONDUCTOR LOAD.

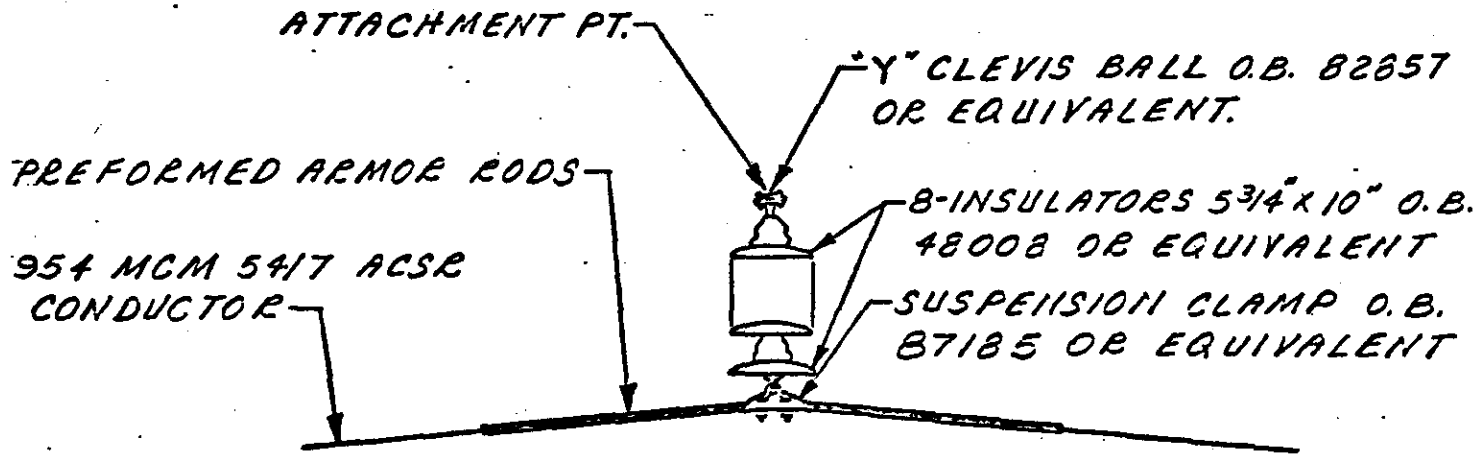
THE DETROIT EDISON COMPANY
 DETROIT, MICHIGAN

120kV SINGLE CIRCUIT

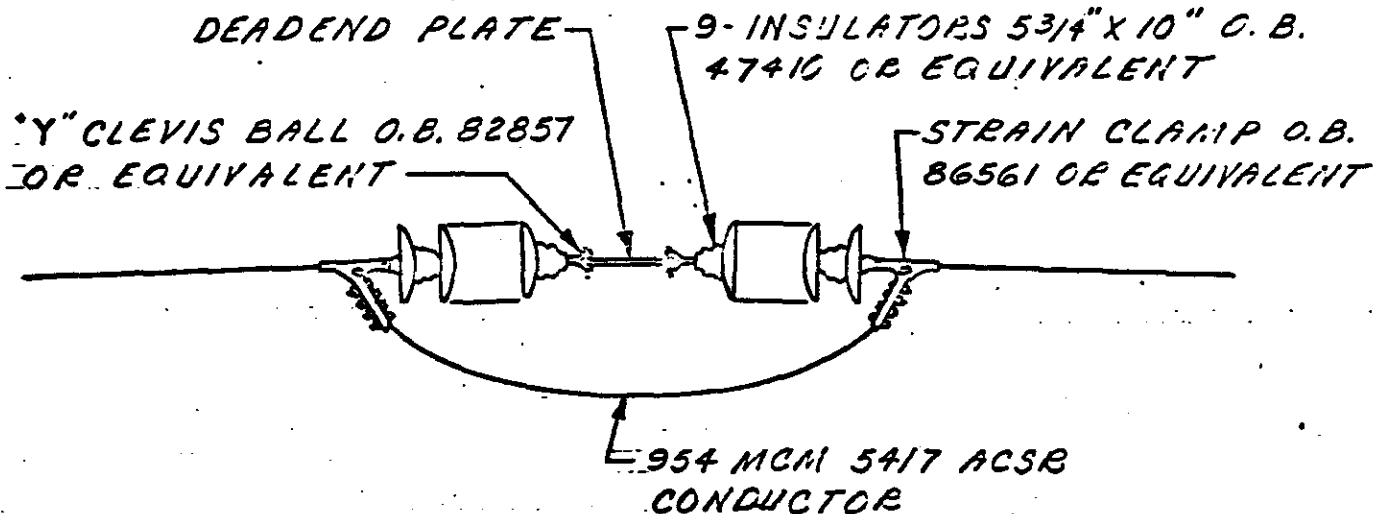
RECORDED RIGHT OF WAY NO. 2426 P 283

9064 0531

SUSPENSION ASS'Y DETAILS



DEADEND ASS'Y DETAILS

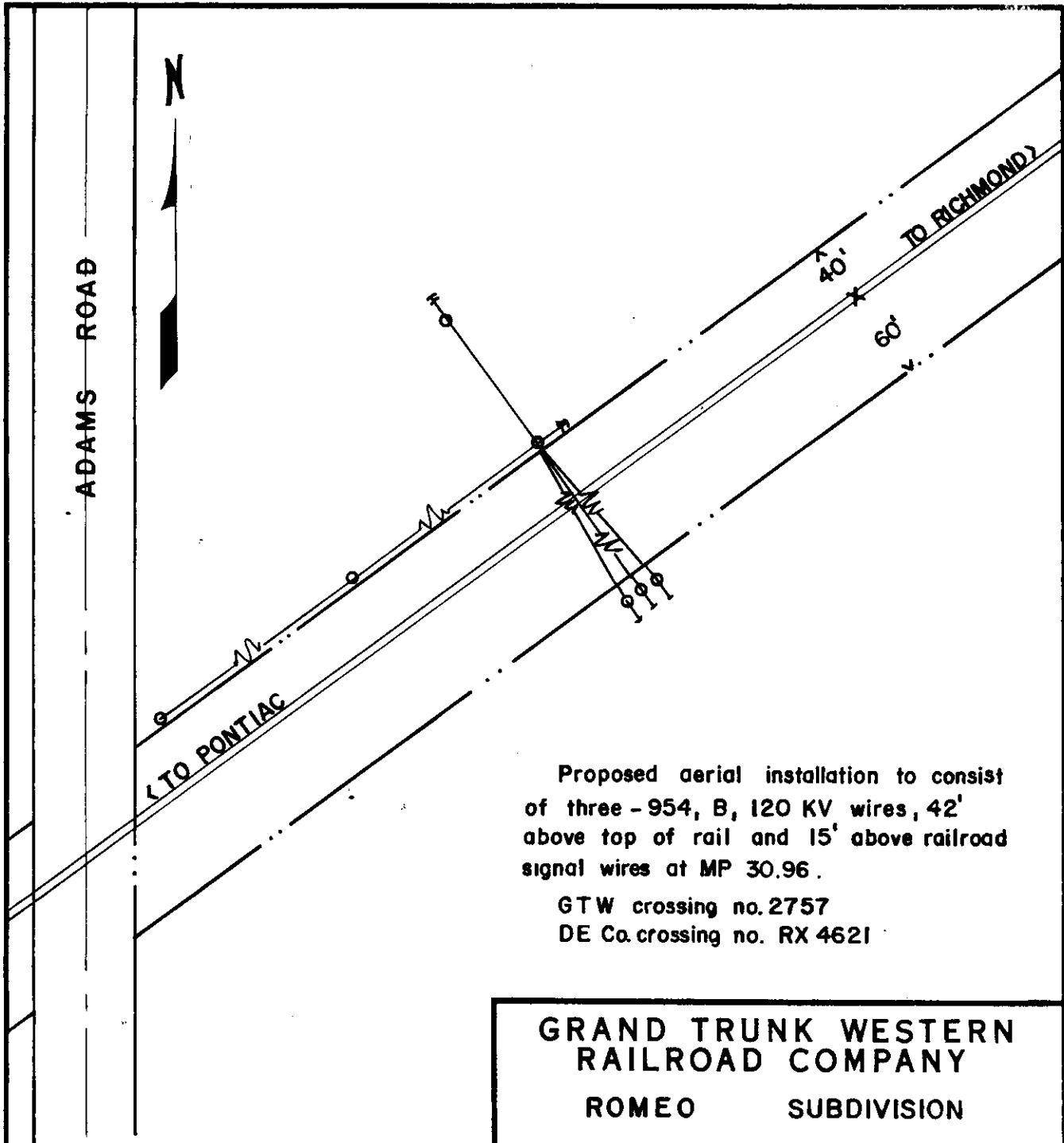


RECORDED RIGHT OF WAY NO. ~~1268~~ 1283

9064 P-531

120 KV SUSPENSION &
DEADEND ASS'Y DETAILS

APPROVED <i>J. Wright</i>	THE DETROIT EDISON COMPANY GENERAL ENGINEERING DEPARTMENT	
LAYOUT BY <i>J. WRIGHT</i>	DRAWN BY <i>J. W.</i>	
DATE <i>1-25-71</i>	DRAWING NUMBER	
SCALE	<i>ED1-7430</i>	



Proposed aerial installation to consist of three - 954, B, 120 KV wires, 42' above top of rail and 15' above railroad signal wires at MP 30.96.

GTW crossing no. 2757
DE Co. crossing no. RX 4621

RECORDED RIGHT OF WAY NO. 9064 P531

Prev. Approved by Law Dept.

G T W APPROVALS	
<i>P.A.M.</i>	LEGAL DEPT. AS TO FORM
<i>J.E.M.</i>	CHIEF ENGR.
<i>J.O.B.</i>	PROPERTY MANAGEMENT
	ENGR. COMM.

ANY CLEARANCES SHOWN ARE FROM CENTERLINE OF TRACK, UNLESS OTHERWISE NOTED.

GRAND TRUNK WESTERN RAILROAD COMPANY
ROMEO SUBDIVISION
AUBURN HEIGHTS, OAKLAND COUNTY, MICHIGAN
LICENSE

DETROIT EDISON COMPANY
OFFICE OF ENGINEER SURVEYS & CONSTRUCTION
DETROIT, MICHIGAN

revised June 12, 1989
PLAN NO. L-16-89 MAY 4, 1989
SCALE 1" = 100' FILE NO. M32-16-5

BOUNDARIES OF G. T. W. R. R. CO. _____
FACILITIES COVERED BY LICENSE _____

PERMIT NO. 534 (Rev.) UNDER MASTER AGREEMENT DATED 1/2/32 *W. L. Martens*
FILE NO. L-3-52 ENGINEER, SURVEYS & CONSTRUCTION

\$275.00 for period 6/12/89 to 12/31/89
\$75.00 per annum thereafter.

A.M. Cameron

GRAND TRUNK WESTERN RAILROAD COMPANY, a Michigan corporation

By *T. Bigley*
Its Manager, Property Management

DETROIT EDISON COMPANY, a Michigan corporation

By *X. William Furlong*
Its Director, W. J. Furlong

Thomas Wilson
THOMAS WILSON

This Permit will cancel and supersede Permit No. 534 dated October 28, 1987 with the Licensee.

DO B-5877B RX 4621

Proposed Line Crossing Over GRAND TRUNK WESTERN R.R.

Existing Permit Number _____

In GTWRR N. OF END OF AVALON 850' N. OF E OF AUBURN & 500' E OF E OF ADAMS

City of ROCHESTER HILLS

Section SW 1/4 SECT. 30 Township _____ T 2N R 10E County OAKLAND

Refer to Section 12 of Overhead Lines Construction Standards for minimum clearance chart. The Railroad Permit Application (DE 963-6064) shall be submitted along with this permit.

Span	Span Length	Lowest Conductor Over R.R. Tracks	Stringing Sag At 60°F	Sag Table	Rule Span	Final Sag Ratio
B-C	117'	42'	26 IN.	I-100	117'	1.00
B-D	117'	42'	26 IN.	I-100	117'	1.00
B-E	117'	42'	26 IN.	I-100	117'	1.00

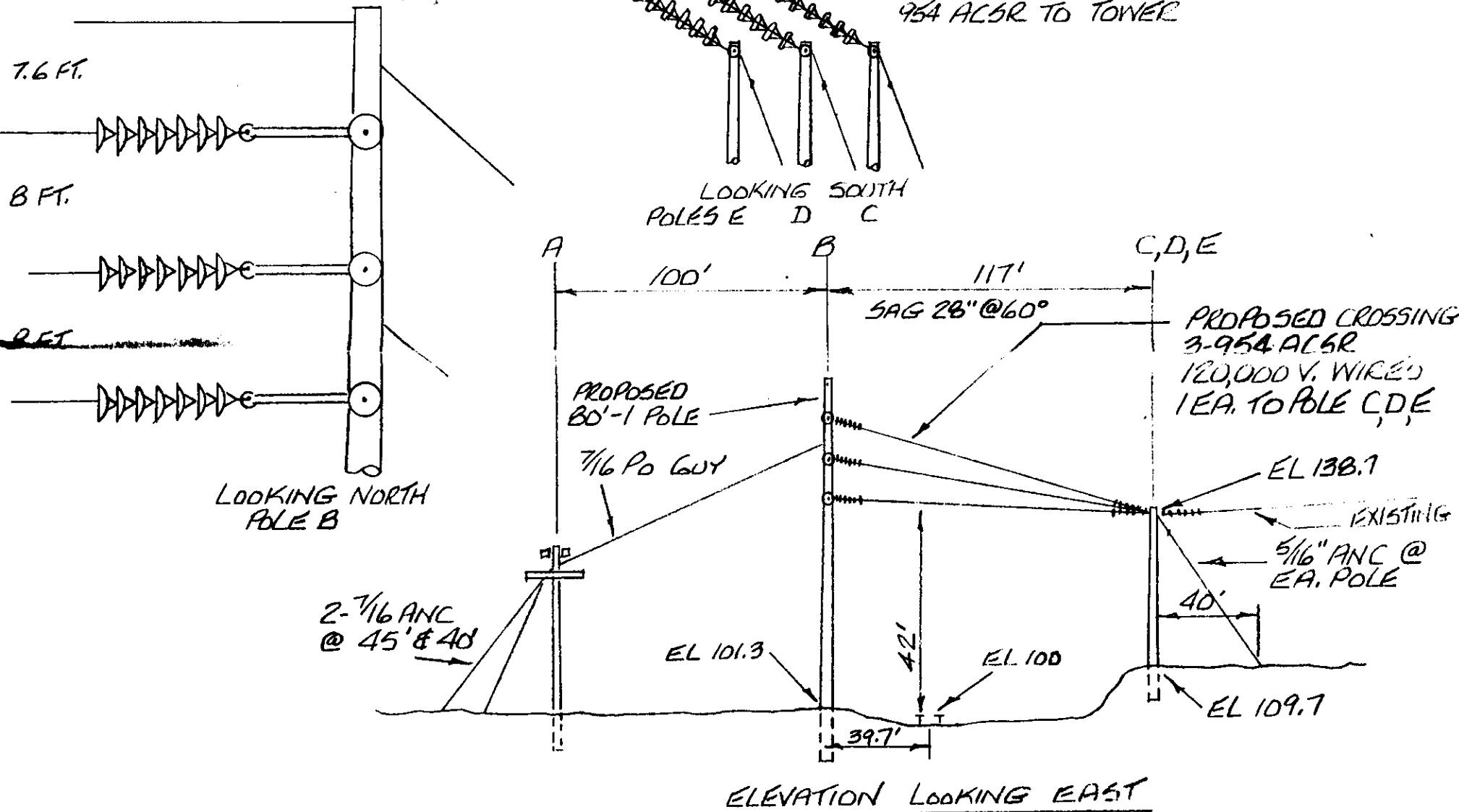
Designed By G. GIBSON

Division OAKLAND

Checked By R. BOND

Date 4-3-89

PROP. 1# DANA (SHIELD) & 3-954 ACSR - 120, KY



PLAN

