

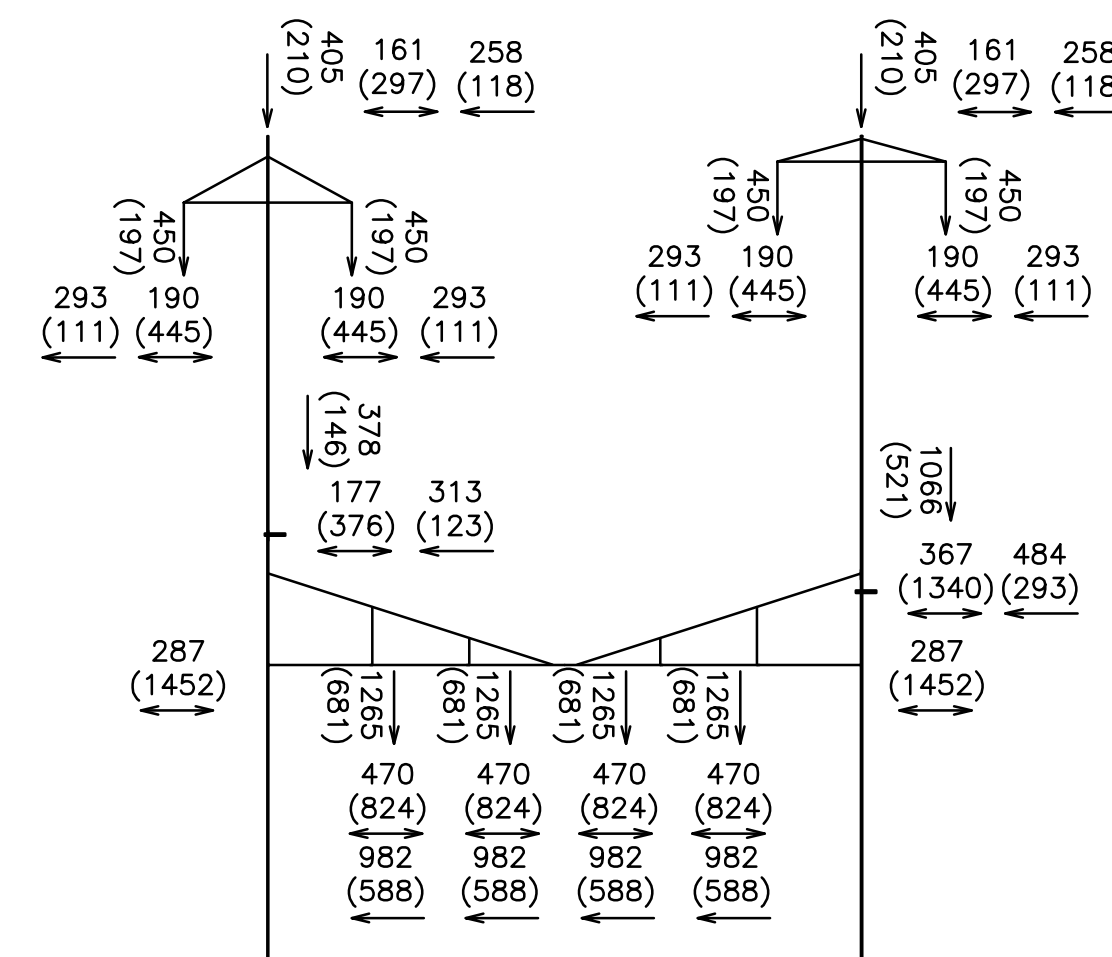
BILL OF MATERIALS

MARK	DESCRIPTION	REF. DWG.	QUANTITY
NA27A	MESSENGER SUPPORT	ET-1904	4
GWS1	GROUND WIRE ASSEMBLY	ET-1909	2
TSA1	TRANSMISSION WIRE SUPPORT	ET-1800	2
TDA3	TRANSMISSION WIRE DEADEND	ET-1800	4
OPS1	FOG WIRE SUPPORT	ET-1906	1
SPS	SIGNAL POWER SUPPORT	ET-1913	1
PC3	SLIDING CLAMP	S-5215	1
PC4	SLIDING CLAMP	S-5215	1
P	POLE	S-5103	2
F1	FOUNDATION	S-5102	2
SB1	SAG BRACE	S-5105	2
CB1	CROSS BEAM	S-5104	1
BA4	TRANSMISSION BRACKET	S-5203	1
BAB	TRANSMISSION BRACKET	S-5206	1
CSC1	SLIDING BRACKET	S-5214	8

CATENARY WIRE HEIGHTS				
	TRACK 1	TRACK 2	TRACK 3	TRACK 4
MW	25'-8 1/2"	25'-4 3/4"	25'-7 1/4"	24'-7 3/4"
CW	19'-7 1/2"	18'-8 3/4"	18'-4 1/2"	18'-9 3/4"

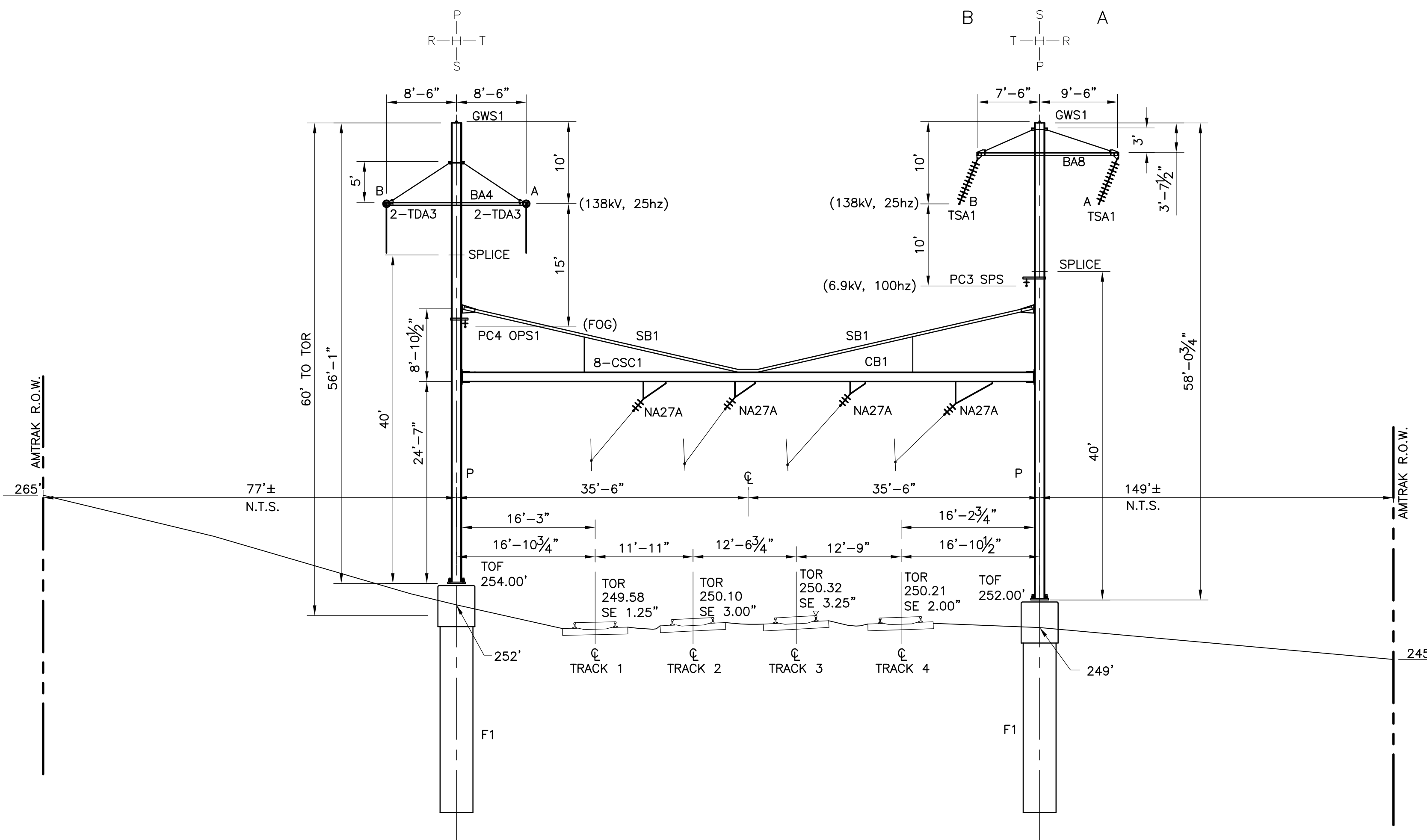
MESSENGER SUPPORT NA27A DIMENSIONS				
	TRACK 1	TRACK 2	TRACK 3	TRACK 4
T1	1'-3 1/2"	1'-1"	8"	1'-10"
T2	2'-8 1/2"	2'-4"	1'-7"	4'-5"

B A
TRANSPOSITION
T-147 TO T-142



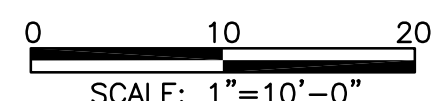
LOADING DIAGRAM

1/2" RADIAL ICE, 40 MPH WIND, (90 MPH WIND, 60°F)
300' LOAD SPAN
(NOT TO SCALE)



STRUCTURE ERECTION DIAGRAM T-147

325+85
LOOKING TOWARDS HARRISBURG



WORK STATEMENT:

1. INSTALL FOUNDATIONS.
2. INSTALL POLES, CROSS BEAM AND SAG BRACES.
3. INSTALL TRANSMISSION BRACKETS.
4. INSTALL SIGNAL POWER SUPPORT BRACKET.
5. INSTALL STATIC, TRANSMISSION AND INSULATED SIGNAL POWER WIRES.
6. TRANSFER FOG AND EXISTING INSULATED SIGNAL POWER WIRES TO NEW STRUCTURE.
7. INSTALL SLIDING BEAM CLAMPS AND MESSENGER SUPPORTS.
8. TRANSFER CATENARY WIRES TO NEW STRUCTURE.
9. ADJUST HANGERS IN CATENARY SPANS AND REPROFILE CATENARY.
10. DEMO OLD CAT POLES AND FOUNDATIONS.

90% DESIGN SUBMISSION

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No	Revisions	Date	By



OFFICE OF
Chief Engineer
Engineering
National Railroad Passenger Corporation
30TH Street Station-Philadelphia, Pennsylvania 19104

Approved	Date



ZOO TO PAOLI TRANSMISSION
ELECTRIFICATION
STRUCTURAL ERECTION DIAGRAM
T-147

Recommended: DP Drawn: CAG Checked: SW Date: 12/19/14

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ET-1509